ALLEGANY COLLEGE OF MARYLAND
WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501
DGS PROJECT NO. CC-10-MC25-488
BID DOCUMENTS SET
NOVEMBER 6, 2026

STATE OF MARYLAND

DEPARTMENT OF GENERAL SERVICES
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301 WEST PRESTON STREET
BALTIMORE, MARYLAND 21201

USING AGENCY
ALLEGANY COLLEGE OF MARYLAND
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

BOARD OF PUBLIC WORKS
WESTLEY WATENDE OMARI MOORE, GOVERNOR
BROOKE ELIZABETH LIERMAN, COMPTROLLER
DERECK E. DAVIS, TREASURER

DEPARTMENT OF GENERAL SERVICES APPROVAL

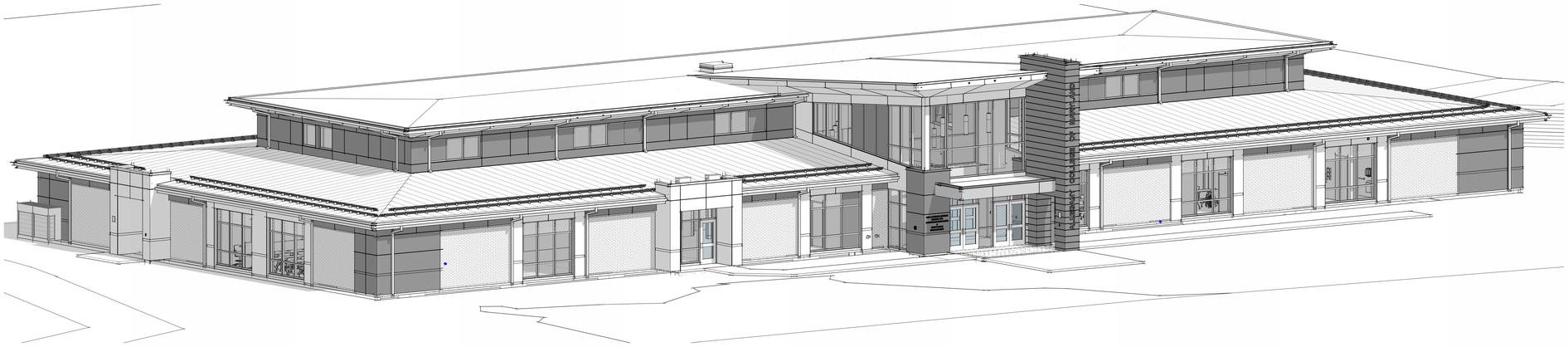
PROJECT MANAGER DATE

CHIEF-PROG. MGT. & DESIGN DATE

DEPARTMENT OF NATURAL RESOURCES APPROVAL

PROJECT MANAGER DATE

DIRECTOR-ENGINEERING & CONSTRUCTION DATE



SHEET INDEX

GENERAL

G001	PROJECT COVER SHEET
G002	ARCHITECTURAL GENERAL INFORMATION

CODE COMPLIANCE

G003	CODE ANALYSIS
G004	MOUNTING HEIGHT STANDARDS
G005	PARTITION TYPES & STANDARDS

CIVIL

C-100	COVER SHEET
C-101	EXISTING CONDITIONS / DEMOLITION PLAN
C-102	SITE LAYOUT & LANDSCAPE PLAN
C-103	SWM & ESC PLAN
C-104	DETAILS & NOTES
C-105	DETAILS & NOTES

STRUCTURAL

S100	GENERAL NOTES
S101	FOUNDATION PLAN
S201	LOWER ROOF FRAMING PLAN
S202	UPPER ROOF FRAMING PLAN
S301	SECTIONS
S302	SECTIONS
S401	TYPICAL DETAILS

ARCHITECTURAL DEMOLITION

D101	FIRST FLOOR & RCP - DEMOLITION
D102	ROOF PLAN - DEMOLITION
D103	DEMOLITION ELEVATIONS

ARCHITECTURAL

A001	FIRST FLOOR - OVERALL PLAN
A101	FIRST FLOOR PLAN
A102	CLERESTORY FLOOR PLAN
A103	ROOF PLAN
A201	FIRST FLOOR - REFLECTED CEILING PLAN
A301	DOOR SCHEDULE
A302	DOOR ELEVATIONS AND DETAILS
A303	WINDOW ELEVATIONS
A304	WINDOW DETAILS
A401	EXTERIOR ELEVATIONS
A402	BUILDING SECTIONS
A403	BUILDING SECTIONS
A404	BUILDING SECTIONS
A501	WALL SECTIONS
A502	WALL SECTIONS
A503	WALL SECTIONS
A504	WALL SECTIONS
A505	WALL SECTIONS
A506	WALL SECTIONS
A507	WALL SECTIONS
A601	DETAILS
A602	PLAN AND COLUMN DETAILS
A701	ENLARGED PLANS & ELEVATIONS
ID001	INTERIOR FINISH SCHEDULE & NOTES
ID101	PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN
ID102	PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN
ID201	PARTIAL FIRST FLOOR - INTERIOR FLOOR PLAN
ID202	PARTIAL FIRST FLOOR - INTERIOR FLOOR PLAN - FLEX CLASSROOMS (PARTITIONS CLOSED)
ID203	PARTIAL FIRST FLOOR - INTERIOR FLOOR PLANS - FLEX CLASSROOMS FURNITURE LAYOUT ALTERNATES
ID204	PARTIAL FIRST FLOOR - INTERIOR FLOOR PLANS - FLEX CLASSROOMS FURNITURE LAYOUT ALTERNATES
ID205	INTERIOR ELEVATIONS
ID206	INTERIOR ELEVATIONS
ID207	INTERIOR ELEVATIONS
ID208	INTERIOR ELEVATIONS
ID209	INTERIOR ELEVATIONS
ID301	PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN
ID302	PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN
ID401	MILLWORK SECTIONS AND DETAILS
ID402	MILLWORK SECTIONS AND DETAILS

MECHANICAL DEMOLITION

MD-101	FIRST FLOOR - DUCTWORK - DEMOLITION PLAN
MD-102	ROOF - DUCTWORK - DEMOLITION PLAN
MD-200	FOUNDATION - MECHANICAL PIPING -DEMOLITION PLAN
MD-201	FIRST FLOOR - MECHANICAL PIPING - DEMOLITION PLAN

MECHANICAL

M-001	MECHANICAL COVER SHEET
M-002	MECHANICAL COVER SHEET
M-100	FOUNDATION - MECHANICAL - NEW WORK PLAN
M-101	FIRST FLOOR - DUCTWORK - NEW WORK PLAN
M-101A	FIRST FLOOR NORTH - DUCTWORK - NEW WORK PLAN
M-101B	FIRST FLOOR SOUTH - DUCTWORK - NEW WORK PLAN
M-102	CLERESTORY - DUCTWORK - NEW WORK PLAN
M-200	FOUNDATION - MECHANICAL PIPING - NEW WORK PLAN
M-201	FIRST FLOOR - MECHANICAL PIPING - NEW WORK PLAN
M-202	ROOF - MECHANICAL PIPING - NEW WORK PLAN
M-301	MECHANICAL SECTIONS
M-501	MECHANICAL DETAILS
M-601	AUTOMATIC TEMPERATURE CONTROLS
M-602	AUTOMATIC TEMPERATURE CONTROLS
M-603	AUTOMATIC TEMPERATURE CONTROLS
M-701	MECHANICAL SCHEDULES
M-702	MECHANICAL SCHEDULES

PLUMBING DEMOLITION

PD-100	FOUNDATION - PLUMBING - DEMOLITION PLAN
PD-101	FIRST FLOOR - PLUMBING - DEMOLITION PLAN
PD-102	ROOF - PLUMBING - DEMOLITION PLAN
PD-401	ENLARGED PLUMBING PLANS

PLUMBING

P-001	PLUMBING COVER SHEET
P-100	FOUNDATION - PLUMBING - NEW WORK PLAN
P-101	FIRST FLOOR - PLUMBING - NEW WORK PLAN
P-102	ROOF - PLUMBING - NEW WORK PLAN
P-401	ENLARGED PLUMBING PLANS
P-402	ENLARGED PLUMBING PLANS
P-501	PLUMBING DETAILS
P-601	DOMESTIC WATER RISER DIAGRAMS
P-602	SANITARY RISER DIAGRAMS
P-603	CONDENSATE RISER DIAGRAMS
P-701	PLUMBING SCHEDULES

FIRE ALARM DEMO

FAD101	FIRST FLOOR DEMOLITION PLAN - FIRE ALARM

FIRE ALARM

FA001	FIRE ALARM COVER SHEET
FA101	FIRST FLOOR PLAN - FIRE ALARM - NEW WORK
FA102	CLERESTORY PLAN - FIRE ALARM NEW WORK
FA501	FIRE ALARM INPUT/OUTPUT MATRIX
FA601	FIRE ALARM RISER DIAGRAM
FA701	FIRE ALARM GRAPHIC MAP

FIRE PROTECTION

FP-001	FIRE PROTECTION COVER SHEET
FP-100	FOUNDATION - FIRE PROTECTION - NEW WORK PLAN
FP-101	FIRST FLOOR - FIRE PROTECTION - NEW WORK PLAN
FP-102	CLERESTORY - FIRE PROTECTION - NEW WORK PLAN

ELECTRICAL DEMOLITION

ED101	FIRST FLOOR PLAN - LIGHTING - DEMOLITION
ED201	FIRST FLOOR PLAN - POWER - DEMOLITION
ED202	ROOF PLAN - POWER - DEMOLITION
ED601	ELECTRICAL ONE LINE DIAGRAM - DEMOLITION

ELECTRICAL

E001	ELECTRICAL COVER SHEET
E002	ELECTRICAL COVER SHEET
E003	ELECTRICAL SITE PLAN - DEMOLITION
E004	ELECTRICAL SITE PLAN - NEW WORK
E101	FIRST FLOOR PLAN - LIGHTING - NEW WORK
E102	CLERESTORY PLAN - LIGHTING - NEW WORK
E201	FIRST FLOOR PLAN - POWER - NEW WORK
E201A	FIRST FLOOR PLAN - MECHANICAL CONNECTIONS - NEW WORK
E202	CLERESTORY PLAN - POWER - NEW WORK
E203	ROOF PLAN - POWER - NEW WORK
E401	ELECTRICAL ENLARGED PLANS
E402	ELECTRICAL ENLARGED KITCHEN PLAN
E403	ELECTRICAL ENLARGED COSMETOLOGY LAB
E501	ELECTRICAL DETAILS
E502	ELECTRICAL DETAILS
E503	ELECTRICAL DETAILS
E601	ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
E602	GROUNDING AND BONDING DIAGRAM
E701	LIGHTING CONTROL MATRIX
E702	LIGHTING CONTROL DIAGRAMS
E703	LIGHTING CONTROL DIAGRAMS
E801	LUMINAIRE SCHEDULE
E802	ELECTRICAL EQUIPMENT SCHEDULES
E803	PANELBOARD SCHEDULES
E804	PANELBOARD SCHEDULES
E805	PANELBOARD SCHEDULES

TECHNOLOGY

TA001	AUDIOVISUAL NOTES AND ABBREVIATIONS
TA002	AUDIOVISUAL LEGEND
TA101	AUDIOVISUAL PLAN - FIRST FLOOR
TA201	AUDIOVISUAL RCP - FIRST FLOOR
TA401	ENLARGED AUDIOVISUAL PLANS
TA501	AUDIOVISUAL DETAILS
TA502	AUDIOVISUAL DETAILS
TA801	AUDIOVISUAL LOGICAL DIAGRAMS
TA802A	AUDIOVISUAL LOGICAL DIAGRAMS
TA802B	AUDIOVISUAL LOGICAL DIAGRAMS
TA803A	AUDIOVISUAL LOGICAL DIAGRAMS
TA803B	AUDIOVISUAL LOGICAL DIAGRAMS
TA804A	AUDIOVISUAL LOGICAL DIAGRAMS
TA804B	AUDIOVISUAL LOGICAL DIAGRAMS
TA804C	AUDIOVISUAL LOGICAL DIAGRAMS
TA805	AUDIOVISUAL LOGICAL DIAGRAMS
TA806	AUDIOVISUAL LOGICAL DIAGRAMS
TA807	AUDIOVISUAL LOGICAL DIAGRAMS
TA808	AUDIOVISUAL LOGICAL DIAGRAMS
TA809	AUDIOVISUAL LOGICAL DIAGRAMS
TA810	AUDIOVISUAL LOGICAL DIAGRAMS
TA811	AUDIOVISUAL LOGICAL DIAGRAMS
TA812	AUDIOVISUAL LOGICAL DIAGRAMS

TECHNOLOGY

T001	SYMBOLS, LEGENDS, AND ABBREVIATIONS - TELECOM
T002	TELECOM SITE PLAN
T101	TELECOM PLAN - FIRST FLOOR
T201	SECURITY PLAN - FIRST FLOOR
T400	RISERS - TELECOM
T401	DETAILS - TELECOM
T402	DETAILS - TELECOM
T403	DETAILS - TELECOM
T404	DETAILS - TELECOM
T405	DETAILS - SECURITY
T406	DETAILS - SECURITY
T407	DETAILS - SECURITY

APPLICABLE CODES

PROJECT:

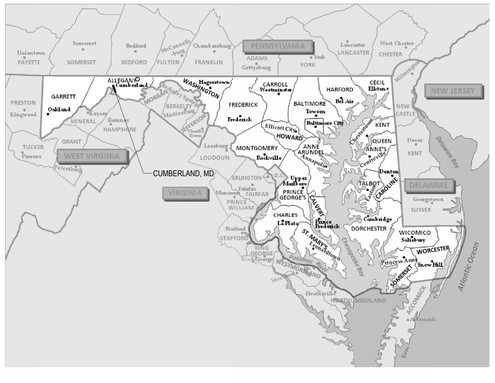
WORKFORCE TRAINING AND DEVELOPMENT CENTER RENOVATION
ALLEGANY COLLEGE OF MARYLAND
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

APPLICABLE CODES:

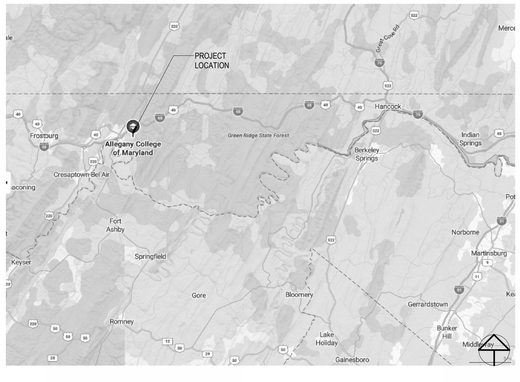
APPLICABLE CODES:

2021 IBC BUILDING CODE
2021 GREEN CONSERVATION CODE
2021 INTERNATIONAL EXISTING BUILDING CODE
2021 IECC INTERNATIONAL ENERGY CONSERVATION CODE (CLIMATE ZONE 5A)
MARYLAND ACCESSIBILITY CODE (2012 MAC)
2024 NFPA 101 LIFE SAFETY CODE
2019 FIRE PREVENTION CODE (STATE OF MD)
2024 NFPA 1 FIRE CODE
MARYLAND SAFETY GLAZING (PUBLIC SAFETY TITLE 12 SUBTITLE 4)
2018 IPC INTERNATIONAL PLUMBING CODE
2021 IMC INTERNATIONAL MECHANICAL CODE (MPC)
2020 NEC NATIONAL ELECTRICAL CODE (MPC)
2018 ICC INTERNATIONAL FUEL GAS CODE
2022 NFPA 13 STANDARDS FOR THE INSTALLATION OF SPRINKLER SYSTEMS
2023 NFPA 70 NATIONAL ELECTRICAL CODE
2022 NFPA 72 NATIONAL FIRE ALARM AND SIGNALING CODE
2022 NFPA 241 STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS

STATE MAP



VICINITY MAP



CAMPUS MAP



PROJECT GENERAL NOTES

1. ALL DIMENSIONS ARE TAKEN FROM THE FACE OF STUDS, FACE OF MASONRY, U.O.N.
2. DO NOT SCALE THE DRAWINGS.
3. IF DRAWING SET IS TO BE PRINTED THE SET MUST BE PRINTED IN COLOR AS SOME GRAPHICAL INFORMATION USE COLORS BEYOND BASIC BLACK AND/OR GRAY TONES.

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

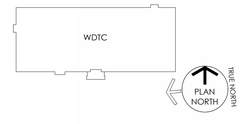
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PROJECT COVER SHEET

SHEET NUMBER:

G001

SHEET 1 OF 172

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11/4/2026 9:03:29 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_125.rvt

LIST OF ABBREVIATIONS

#	POUND OR NUMBER
&	AND
@	AT
A	
ABV	ABOVE
ACC	ACCESSIBLE
ACOUS	ACOUSTICAL
ACS	ACCESS
ACT	ACOUSTICAL CEILING TILE
ADC	AUTOMATIC DOOR CLOSER
ADDL	ADDITIONAL
ADJ	ADJUSTABLE
AFC	ABOVE FINISHED COUNTER
AFF	ABOVE FINISH FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ALUM	ALUMINUM
AP	APPLIANCE
APPROX	APPROXIMATE(LY)
APT	APARTMENT
ARCH	ARCHITECTURAL
AUTO	AUTOMATIC
AVG	AVERAGE
AW	ARCHITECTURAL WOODWORK
AWI	ARCHITECTURAL WOODWORK INSTITUTE
B	
B.O.	BOTTOM OF
BALC	BALCONY
BD	BOARD
BDR	BEDROOM
BLDG	BUILDING
BLK	BLOCK
BLKG	BLOCKING
BLKHD	BULKHEAD
BLW	BELOW
BM	BENCHMARK OR BEAM
BOT	BOTTOM
BR	BUMPER RAIL
BRG	BEARING
BRKT	BRACKET
BSMT	BASEMENT
BTWN	BETWEEN
BUR	BUILT UP ROOF
C	
CAB	CABINET
CATW	CATWALK
CBB	CEMENTITIOUS BACKER BOARD
CC	CUBICLE CURTAIN
CCT	CUBICLE CURTAIN TRACK
CD	CONSTRUCTION DOCUMENT
CFLG	COUNTERFLASHING
CG	CORNER GUARD
CGS	CEILING SYSTEM
CHR	CHAIR RAIL
CIP	CAST IN PLACE
CIRC	CIRCULAR
CJ	CONTROL JOINT
CL	CENTERLINE
CLDG	CLADDING
CLG	CEILING
CLL	CONTRACT LIMIT LINE
CLO	CLOSET
CLR	CLEAR
CLSRM	CLASSROOM
CM	CULTURED MARBLE
CMU	CONCRETE MASONRY UNIT
CNTR	COUNTER
CO	CLEAR OPENING OR CLEANOUT
COL	COLUMN
CONC	CONCRETE
CONF	CONFERENCE
CONN	CONNECT(ION)
CONSTR	CONSTRUCTION
CONT	CONTINUOUS
COORD	COORDINATE
CORR	CORRIDOR
CPT	CARPET
CR	CRASH RAIL
CS	CAST STONE
CSK	COUNTERSINK OR COUNTERSUNK
CSMT	CASEMENT
CSWK	CASEWORK
CT	CERAMIC TILE
CTR	CENTER
CW	COLD WATER
D	
D	CLOTHES DRYER
DB	DECIBEL
DBL	DOUBLE
DEG	DEGREE
DEMO	DEMOLITION
DEPT	DEPARTMENT
DET	DETAIL
DF	DRINKING FOUNTAIN
DH	DOUBLE HUNG
DIA	DIAMETER
DIAG	DIAGONAL(LY)
DIM	DIMENSION
DIV	DIVIDE(D) OR DIVISION
DM	DECORATIVE METAL
DMPF	DAMPPROOF
DN	DOWN
DP	DOOR PROTECTION
DPG	DECORATIVE PLASTIC GLAZING
DPTN	DEMOUNTABLE PARTITION
DR	DOOR
DS	DOWNSPOUT
DW	DISHWASHER
DWG	DRAWING
DWR	DRAWER
E	
E	EAST
EA	EACH
EC	ELECTRICAL CONTRACTOR
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
EMER	EMERGENCY
ENCL	ENCLOSURE
ENGR	ENGINEER
ENTR	ENTRANCE
EOS	EDGE OF SLAB
EP	EPOXY PAINT
EPB	ELECTRICAL PANEL BOARD
EQ	EQUAL
EQUIP	EQUIPMENT
ETR	EXISTING TO REMAIN
EWS	EYE WASH STATION
EXP	EXPANSION, EXPOSED, OR EXPANDED
EXST	EXISTING
EXT	EXTERIOR OR EXTERNAL

F	
F	FAHRENHEIT
FA	FIRE ALARM OR FABRIC
FD	FLOOR DRAIN
FDC	FIRE DEPARTMENT CONNECTION
FDN	FOUNDATION
FDV	FIRE DEPARTMENT VALVE
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
FF	FINISH FACE
FFE	FIXTURES, FURNITURE, AND EQUIPMENT
FH	FIRE HYDRANT
FHC	FIRE HOSE CABINET
FIN	FINISH
FLG	FLOORING
FLR	FLOOR
FOC	FACE OF CONCRETE OR CURB
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUD
FP	FIRE PROOFED/PROOFING
FPL	FIREPLACE
FRP	FIBER REINFORCED PLASTIC
FRT	FIRE RETARDANT TREATED
FT	FOOT OR FEET
FTG	FOOTING
FURN	FURNITURE
G	
GA	GAUGE
GALV	GALVANIZED
GB	GRAB BAR
GC	GENERAL CONTRACTOR
GCMU	GLAZED CONCRETE MASONRY UNIT
GEN	GENERAL OR GENERATOR
GF	GLASS FILM
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GL	GLASS OR GLAZING
GND	GROUND
GT	GLASS TILE
GYP BD	GYPSUM BOARD
H	
H	HIGH
HB	HOSE BIBB
HC	HOLLOW CORE
HCP	HANDICAPPED
HCWD	HOLLOW CORE WOOD DOOR
HDW	HARDWARE
HDWD	HARDWOOD
HM	HOLLOW METAL
HMF	HOLLOW METAL FRAME
HORIZ	HORIZONTAL
HR	HOUR OR HANDRAIL
HSKPG	HOUSEKEEPING
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HW	HOT WATER
I	
ID	INSIDE DIMENSION, INSIDE DIAMETER, IDENTIFICATION, OR INTERIOR DESIGN
IHM	INSULATED HOLLOW METAL
IN(.)	INCH
INSUL	INSULATION OR INSULATED
INT	INTERIOR
J	
JAN	JANITOR
JST	JOIST
JT	JOINT
K	
KIT	KITCHEN
KP	KICKPLATE
L	
L	LONG
LAM	LAMINATE
LAV	LAVATORY
LB(S)	POUND(S)
LF	LINEAR FOOT/FEET
LH	LEFT HAND
LKR	LOCKER
LL	LEAD LINED
LR	LEANING RAIL
LT	LIGHT
LVR	LOUVER
LVT	LUXURY VINTL TILE
M	
MATL	MATERIAL
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
ME	MEDICAL EQUIPMENT
MECH	MECHANICAL
MED	MEDICAL OR MEDIUM
MEP	MECHANICAL, ELECTRICAL, AND PLUMBING
MEZZ	MEZZANINE
MFD	MANUFACTURED
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM OR MINUTE
MISC	MISCELLANEOUS
MO	MASONRY OPENING
MOD	MODIFIED
MP	METAL PANEL
MR	MOISTURE RESISITANT
MT	METAL TILE
MTD	MOUNTED
MTG	MOUNTING
MTL	METAL
MW	MICROWAVE
MWF	MOLDED WOOD FIBER
N	
N	NORTH
NIC	NOT IN CONTRACT
NO(.)	NUMBER
NOM	NOMINAL
NRC	NOISE REDUCTION COEFFICIENT
NS	NATURAL STONE
NTS	NOT TO SCALE
O	
OC	ON CENTER
OD	OUTSIDE DIAMETER OR OUTSIDE DIMENSION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPH	OPPOSITE HAND
OPNG	OPENING
OPP	OPPOSITE

OZ	OUNCE
P	
PBD	PARTICLE BOARD
PC	PLUMBING CONTRACTOR OR PIECE
PERF	PERFORATE(D)
PERP	PERPENDICULAR
PL	PLATE OR PROPERTY LINE
PLAM	PLASTIC LAMINATE
PLYWD	PLYWOOD
PNL	PANEL
PNT	PAINT
POL	POLISHED
PR	PAIR
PRCST	PRECAST
PROJ	PROJECT
PS	PULL STATION
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSTR	PAINTED STRUCTURE
PT	PORCELAIN TILE
PTD	PAINTED
PTN	PARTITION
PVC	POLYVINYL CHLORIDE
Q	
QT	QUARRY TILE OR QUART
QTY	QUANTITY
QZ	QUARTZ
R	
R	RISER
RA	RETURN AIR
RB	RUBBER BASE
RCP	REFLECTED CEILING PLAN
RD	ROOF DRAIN OR ROUND
RECPT	RECEPTACLE
REF	REFRIGERATOR OR REFER(ENCE)
REINF	REINFORCEMENT OR REINFORCED
REQD	REQUIRED
RES	RESINOUS POURED FLOORING
RET	RETURN
REV	REVISION OR REVERSE
RF	RESILIENT FLOORING
RH	RIGHT HAND
RLG	RAILING
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
RT	RUBBER TILE
RTG	RATING
RTU	ROOFTOP UNIT
RWC	RAINWATER CONDUCTOR
RWL	RAINWATER LEADER
S	
S	SOUTH
SA	SUPPLY AIR
SAB	SOUND ATTENUATION BATTS
SC	SOLID CORE OR SPECIALTY COATING
SCHED	SCHEDULE
SCONC	SEALED CONCRETE
SCWD	SOLID CORE WOOD DOOR
SD	SMOKE DETECTOR
SE	SPECIALTY EQUIPMENT
SECT	SECTION
SF	SQUARE FOOT/FEET
SGL	SINGLE
SHC	SHOWER CURTAIN
SHR	SHOWER
SHT	SHEET
SHTG	SHEATHING
SHV	SHELVING
SIM	SIMILAR
SMP	SOLID MINERAL PROFILE PANELING
SOG	SLAB ON GRADE
SP	SOLID PHENOLIC
SPEC	SPECIFICATION
SPKLR	SPRINKLER
SPKR	SPEAKER
SQ	SQUARE
SR	SHEET RUBBER
SS	SOLID SURFACE
SST	STAINLESS STEEL
ST	STAIR TREAD OR STREET
STA	STATION
STC	SOUND TRANSMISSION CLASSIFICATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STRUCT	STRUCTURAL
SUSP	SUSPENDED OR SUSPENSION
SV	SHEET VINYL
SYMM	SYMMETRICAL
SYS	SYSTEM
T	
T	TREAD
T&G	TONGUE AND GROOVE
T.O.	TOP OF
TA	TOILET ACCESSORY
TEL	TELEPHONE
TEMP	TEMPORARY
TF	THERMOFOIL
TG	TEMPERED GLASS
THK	THICK(NESS)
THRES	THRESHOLD
TIG	TEMPERED INSULATED GLASS
TP	TOILET PARTITION
TV	TELEVISION
TYP	TYPICAL
TZ	TERRAZZO
U	
UC	UNDERCOUNTER
UL	UNDERWRITER LABORATORIES, INC.
UNFIN	UNFINISHED
UOJ	UNDERSIDE OF JOIST
UON	UNLESS OTHERWISE NOTED
UOT	UNDERSIDE OF TRUSS
UTIL	UTILITY
V	
VB	VINYL BASE OR VAPOR BARRIER
VCT	VINYL COMPOSITION TILE
VENT	VENTILATED
VERT	VERTICAL(LY)
VEST	VESTIBULE
VIF	VERIFY IN FIELD
VP	VENEER PLASTER
VTR	VENT THROUGH ROOF
W	
W	WEST, WIDE, OR WASHER
W/	WITH
W/O	WITHOUT
WC	WALLCOVERING OR WATER CLOSET
WD	WOOD
WG	WIRE GLASS
WH	WALL HYDRANT OR WATER HEATER
WIN	WINDOW
WOM	WOMAN, WOMEN, OR WALK-OFF MAT
WP	WALL PROTECTION OR WATERPROOF(ING)
WSCT	WAINSCOT
WT	WINDOW TREATMENT OR WEIGHT
WWR	WELDED WIRE REINFORCEMENT

SYMBOLS AND MATERIALS KEY

ROOM NAME XXX — ROOM NAME & NUMBER

X — DOOR MARK

X — PARTITION TYPE

X — TOILET ACCESSORY

X — WINDOW TYPE DETAIL

W-X — WINDOW TYPE

S-X — STOREFRONT TYPE

X — WINDOW GLAZING

X — APPLIANCE TYPE

X — DEMOLITION NOTE REFERENCE

EARTH

GRAVEL

CONCRETE

GROUT, MORTAR, CEMENT

CONCRETE MASONRY UNIT

FACE BRICK

STONE VENEER

STEEL

X / AX.X — DETAIL KEY

X / AX.X — BUILDING SECTION KEY OR WALL SECTION KEY

1 / A101 / Ref — INTERIOR AND EXTERIOR ELEVATION KEY

CONTROL OR WORK POINT

1 — REVISION REFERENCE

X — COLUMN GRID MARK

WOOD BLOCKING

DIMENSIONAL LUMBER

FINISHED WOOD

BATT INSULATION

ACOUSTICAL TILE

RIGID INSULATION

PLYWOOD

PROJECT TEAM

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Signature _____ Date _____
License # _____, Expiration Date ___/___/_____

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

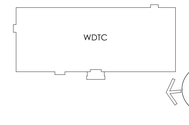
PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND

Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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CAD DWG FILE:	
DRAWN BY:	NHA
CHK'D BY:	NHA

JOB NUMBER:	**25909 - DGS# CC-10-MC25-488**
ISSUE DATE:	**11/06/2026**
SHEET TITLE:	**ARCHITECTURAL GENERAL INFORMATION**
SHEET NUMBER:	**G002**
SHEET	2 OF 172

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OCCUPANCY SCHEDULE

ROOM NUMBER	ROOM NAME	AREA CLASSIFICATION	Net Room Area	AREA PER OCCUPANT	OCCUPANCY LOAD
100	VESTIBULE ADDITION	(none)			
102	LOBBY	(none)			
103	RECEPTION (WORKSTATION)	Business areas	201 SF	150 SF	2
103A	WORKSTATION	Business areas	46 SF	150 SF	1
104	SPRINKLER	Accessory storage areas, mechanical equipment room	92 SF	300 SF	1
106	A.V. / I.T.	Accessory storage areas, mechanical equipment room	126 SF	300 SF	1
107	FAMILY	(none)			
108	PHARM TECH LAB	Educational - Shops and other vocational room areas	559 SF	50 SF	12
109	STORAGE	Accessory storage areas, mechanical equipment room	81 SF	300 SF	1
110	STORAGE	Accessory storage areas, mechanical equipment room	81 SF	300 SF	1
111	NURSING LAB	Educational - Shops and other vocational room areas	699 SF	50 SF	14
112	TOILET	(none)			
113	PREP/UTILITY	Accessory storage areas, mechanical equipment room	95 SF	300 SF	1
114	COSMETOLOGY LAB	Educational - Shops and other vocational room areas	1405 SF	50 SF	29
117	MECHANICAL	Accessory storage areas, mechanical equipment room	584 SF	300 SF	2
117A	ELEC.	Accessory storage areas, mechanical equipment room	60 SF	300 SF	1
118	CUSTODIAN	Accessory storage areas, mechanical equipment room	27 SF	300 SF	1
119	EXISTING VESTIBULE	(none)			
120	CLASSROOM	Educational - Classroom area	473 SF	20 SF	24
122	ELEC	Accessory storage areas, mechanical equipment room	45 SF	300 SF	1
123	OFFICE	Business areas	96 SF	150 SF	1
124	OFFICE	Business areas	96 SF	150 SF	1
125	OFFICE	Business areas	96 SF	150 SF	1
126	OFFICE	Business areas	95 SF	150 SF	1
127	OFFICE	Business areas	95 SF	150 SF	1
128	OFFICE	Business areas	93 SF	150 SF	1
129	OFFICE	Business areas	93 SF	150 SF	1
130	OFFICE	Business areas	95 SF	150 SF	1
131	OFFICE	Business areas	99 SF	150 SF	1
132	OFFICE	Business areas	99 SF	150 SF	1
133	OFFICE	Business areas	95 SF	150 SF	1
134	OFFICE	Business areas	58 SF	150 SF	1
135	OFFICE	Business areas	95 SF	150 SF	1
136	OFFICE	Business areas	95 SF	150 SF	1
137	OFFICE	Business areas	95 SF	150 SF	1
138	OFFICE	Business areas	95 SF	150 SF	1
139	OFFICE	Business areas	49 SF	150 SF	1
140	WORKSTATION	Business areas	55 SF	150 SF	1
141	WORKSTATION	Business areas	55 SF	150 SF	1
142	ADMIN	Business areas	73 SF	150 SF	1
143	WORK AREA	Business areas	71 SF	150 SF	1
144	KITCHEN CATER	Kitchens, commercial	324 SF	200 SF	2
144A	ELEC.	Accessory storage areas, mechanical equipment room	13 SF	300 SF	1
145	KITCHEN LAB	Educational - Shops and other vocational room areas	349 SF	50 SF	8

OCCUPANCY SCHEDULE

ROOM NUMBER	ROOM NAME	AREA CLASSIFICATION	Net Room Area	AREA PER OCCUPANT	OCCUPANCY LOAD
146	FLEX CLASSROOM	Educational - Classroom area	442 SF	20 SF	23
147	FLEX CLASSROOM	Educational - Classroom area	401 SF	20 SF	25
148	FLEX CLASSROOM	Educational - Classroom area	420 SF	20 SF	22
149	FLEX CLASSROOM	Educational - Classroom area	457 SF	20 SF	23
150	AV	Accessory storage areas, mechanical equipment room	16 SF	300 SF	1
151	STOR.	Accessory storage areas, mechanical equipment room	15 SF	300 SF	1
152	STOR.	Accessory storage areas, mechanical equipment room	16 SF	300 SF	1
153	STOR.	Accessory storage areas, mechanical equipment room	15 SF	300 SF	1
154	STOR.	Accessory storage areas, mechanical equipment room	17 SF	300 SF	1
155	AV	Accessory storage areas, mechanical equipment room	16 SF	300 SF	1
156	SEMINAR	Assembly without fixed seats - Unconcentrated (tables and chairs)	286 SF	15 SF	20
157	SEMINAR	Assembly without fixed seats - Unconcentrated (tables and chairs)	224 SF	15 SF	15
158	WOMEN	(none)			
159	MEN	(none)			
160	LACTATION	Business areas	71 SF	150 SF	1
161	SEMINAR	Assembly without fixed seats - Unconcentrated (tables and chairs)	183 SF	15 SF	13
162	TABLE / CHAIR STORAGE	Accessory storage areas, mechanical equipment room	155 SF	300 SF	1
163	EXISTING VESTIBULE	(none)			
164	AV	Accessory storage areas, mechanical equipment room	19 SF	300 SF	1
165	AV	Accessory storage areas, mechanical equipment room	21 SF	300 SF	1
166	COMMUNITY-BASED TRANSITION PROGRAM	Educational - Shops and other vocational room areas	795 SF	50 SF	16
167	TOILET	(none)			
168	STOR.	Accessory storage areas, mechanical equipment room	15 SF	300 SF	1
169	FLEX CLASSROOM	Educational - Classroom area	729 SF	20 SF	37
170	FLEX CLASSROOM	Educational - Classroom area	576 SF	20 SF	29
171	FLEX CLASSROOM	Educational - Classroom area	667 SF	20 SF	34
172	CORRIDOR	(none)			
172A	ELEC.	Accessory storage areas, mechanical equipment room	22 SF	300 SF	1
173	CORRIDOR	(none)			
174	CORRIDOR	(none)			
175	LOBBY	(none)			
176	HALL	(none)			
177	CORRIDOR	(none)			
178	CORRIDOR	(none)			
179	HALL	(none)			
180	HALL	(none)	192 SF	150 SF	2
181	HALL	(none)			
TOTAL BUILDING OCCUPANT LOAD					395

CODE ANALYSIS MATRIX

USE GROUP MATRIX:

	2021 IBC	2024 NFPA 101
BUSINESS - COLLEGE	B	EXISTING BUSINESS

CONSTRUCTION TYPE MATRIX:

	2021 IBC	2024 NFPA 101
BUSINESS - COLLEGE	TYPE II B FULLY SPRINKLERED (NFPA 13)	TYPE II (000) FULLY SPRINKLERED (NFPA 13)

HEIGHT ANALYSIS:

	2021 IBC	2024 NFPA 101	ACTUAL # OF STORIES / ACTUAL HEIGHT
	ALLOWABLE # STORIES / ALLOWABLE HEIGHT	ALLOWABLE # STORIES	
BUSINESS - COLLEGE	4 STORY / 55 FEET	4 STORY / 55 FEET	1 STORY / 21'-8"

MAXIMUM BUILDING AREA DETERMINATION:

	TABULAR ALLOWANCE	FRONTAGE ALLOWANCE	SPRINKLER ALLOWANCE	ADJUSTED ALLOW.	ACTUAL BLDG. AREA
BUSINESS - COLLEGE	69,000 SQ. FT.	NOT USED	NOT USED	69,000 SQ. FT.	20,401 GSF

FIRE RESISTANCE SCHEDULE:

	2021 IBC	NFPA 101	PROVIDED	REMARKS
STRUCTURAL FRAME (COLUMNS, GIRDERS, TRUSSES)	0 HOUR	0 HOUR	PROVIDED	
EXTERIOR BEARING WALLS	0 HOUR	0 HOUR	PROVIDED	
INTERIOR BEARING WALLS	0 HOUR	0 HOUR	PROVIDED	
FLOOR CONSTRUCTION	0 HOUR	0 HOUR	PROVIDED	
ROOF CONSTRUCTION	0 HOUR	0 HOUR	PROVIDED	
FIRE WALLS	N/A	N/A		
FIRE BARRIER	1 HOUR w/ 3/4 HOUR OPENINGS	1 HOUR w/ 3/4 HOUR OPENINGS	PROVIDED	
FIRE PARTITION	N/A	N/A		
SMOKE BARRIER	N/A	N/A		
SMOKE PARTITION (CORRIDORS)	0 HOUR	0 HOUR	PROVIDED	

GROSS AREA:

	AREA (GROSS SQ. FT.)
EXISTING FIRST FLOOR	19,861 SQ. FT.
FIRST FLOOR - ENTRY ADDITION	540 SQ. FT.
TOTAL:	20,401 SQ. FT.

PLUMBING SYSTEMS (CHAPTER 29, TABLE 2902.1)

FIXTURE TYPE	PER CODE	FIXTURES REQUIRED: TOTAL PER PROJECT	FIXTURES PROVIDED
WATER CLOSETS	B = 1/25 (FIRST 50) 1/50 (REMAINDER EXCEEDING 50) MALES & FEMALES	396 OCC (396/2 = 198) 4.9 MALE + 4.9 FEMALE	B = 3 MALE (SEE URINALS) 6 FEMALE 1 FAMILY 1 NURSING 1 TRANSITIONS
URINALS	PER SECTION 424.2 : CAN REPLACE 50% OF WATER CLOSETS	2 MAXIMUM	B = 2 MALE
LAVORATORIES	B = 1/40 (FIRST 40) 1/80 (REMAINDER EXCEEDING 80) MALES & FEMALES	396 OCC (396/2 = 198) 2.9 MALE + 2.9 FEMALE	B = 3 MALE 4 FEMALE 1 FAMILY 1 NURSING 1 TRANSITIONS
DRINKING FOUNTAINS	A = 1/100 ppl	396 OCC 3.96	B = 2 WITH 3 KITCHENETTES WITH ACCESSIBLE SINKS AND REFRIGERATORS
MOP SINKS	B = 1 SINK	1 MINIMUM	B = 1

LIFE SAFETY LEGEND

WALL & CEILING BARRIERS AND PARTITIONS

- 3 HR FIRE BARRIER
- 2 HR SMOKE BARRIER
- 2 HR FIRE BARRIER
- NON-RATED SMOKE RESISTIVE PARTITION
- 1 HR SMOKE BARRIER
- 1 HR FIRE BARRIER
- NON-RATED PARTITION
- SMOKE TIGHT CEILING
- 1 HR FIRE BARRIER CEILING

NOTE: ALL RATED CONSTRUCTION IS ALSO SMOKE RESISTIVE CONSTRUCTION

EXIT / EGRESS SYMBOLS

- EXIT DISCHARGE
- CALCULATED OCCUPANTS TO EXIT (IF APPLICABLE)
- DIRECTIONAL ILLUMINATED EXIT SIGN

TRAVEL DISTANCE LIMITATIONS

EXIT — 199' — (MAXIMUM 200'-0")

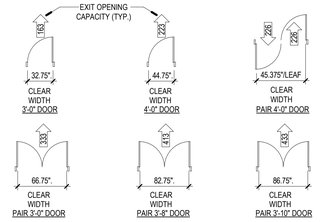
FIRE PROTECTION & ALARM DEVICES

- FE — FIRE EXTINGUISHER - BRACKET MOUNTED
- FEC — FIRE EXTINGUISHER CABINET

BUILDING AREA DESIGNATIONS

- CONTROL ROOM AREA
- XX — HAZARDOUS ROOMS (SU = SOILED UTILITY) (ST = STORAGE)
- ROOF AREA

EXIT DISCHARGE CAPACITY BY DOOR

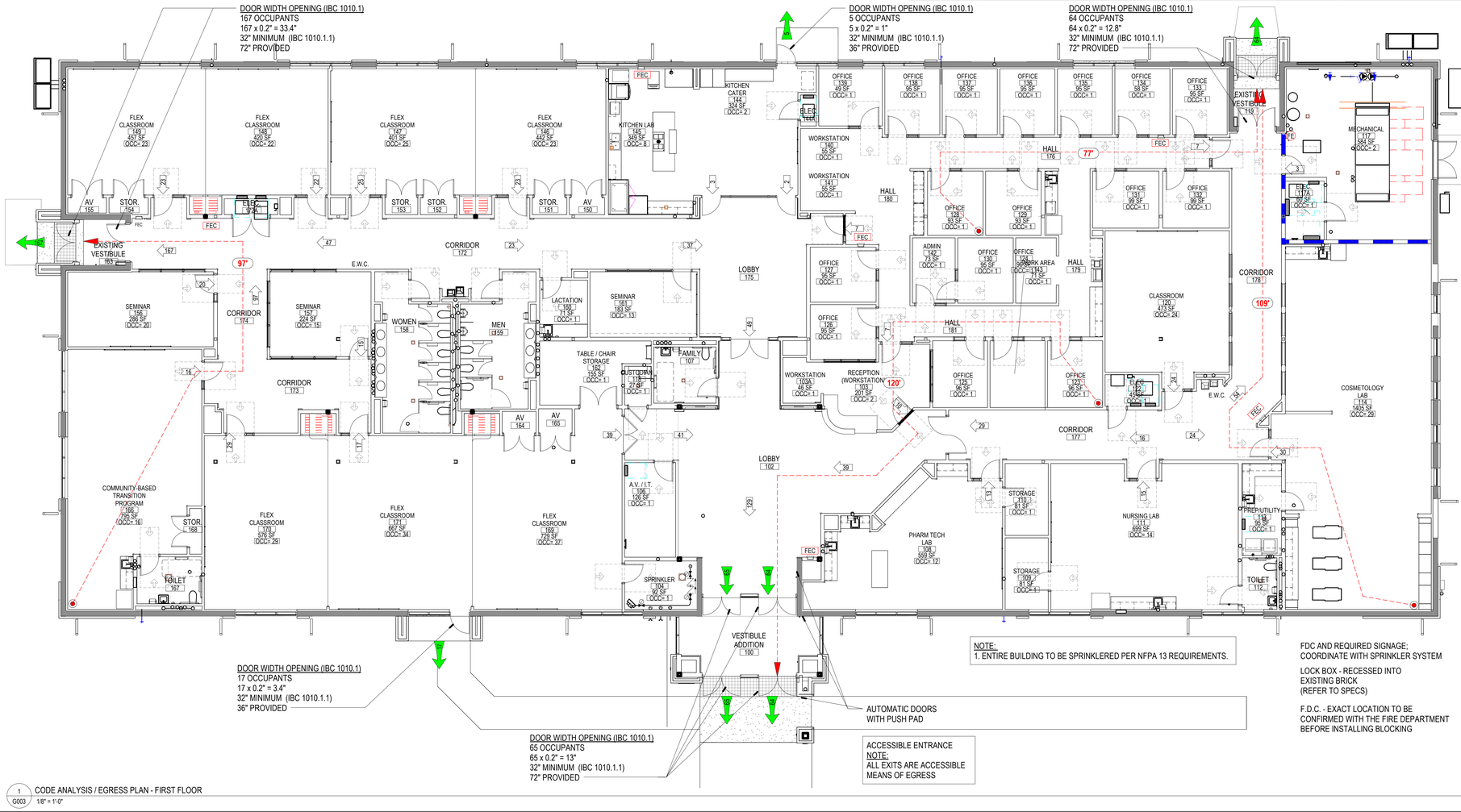


LIFE SAFETY GENERAL NOTES

1. FIRE EXTINGUISHER CABINETS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75'-0".
2. MINIMUM EGRESS WIDTH PER OCCUPANT AT STAIRS = 0.3" PER OCCUPANT. MINIMUM EGRESS WIDTH PER OCCUPANT AT OTHER EGRESS COMPONENTS = 0.2" PER OCCUPANT. (TABLE 1005.1)
3. A FIRE RATED ASSEMBLY AND SMOKE BARRIER ASSEMBLY SHALL BE STENCILED WITH THE RELEVANT DESIGNATION AS FOLLOWS:
   - 3" TALL LETTERS IN RED INK OR PAINT
   - APPLIED AT ALL CONCEALED LOCATIONS (EG., ABOVE CEILINGS AND INSIDE ELEVATOR SHAFTS) @ 8'-0"o.c. MAXIMUM.

FIRE PROOFING GENERAL NOTES

1. ALL FIREPROOFING DESIGNS SHOULD BE CONSIDERED THERMALLY UNRESTRAINED.
2. SPRAYED FIREPROOFING FOR STRUCTURAL MEMBERS WITH W/D OR A/P RATIOS OTHER THAN THE SPECIFIED UL DESIGN WILL BE ADJUSTED IN ACCORDANCE WITH THE ADJUSTMENT OF SPRAYED PROTECTION MATERIAL THICKNESS FOR UNRESTRAINED RATINGS FOR VARIOUS BEAM AND COLUMN SIZES AS FOUND IN THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
3. ALL BEAMS AND COLUMNS SHALL BE ADJUSTED USING W/D OR A/P RATIOS TO DETERMINE THE CORRECT FIREPROOFING THICKNESS.



1/8" = 1'-0" SCALE (5 0 5 10 15 20 FEET)

1 / G003 CODE ANALYSIS / EGRESS PLAN - FIRST FLOOR
1/8" = 1'-0"

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

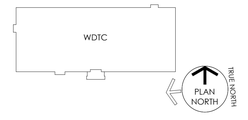
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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CODE ANALYSIS

SHEET NUMBER:

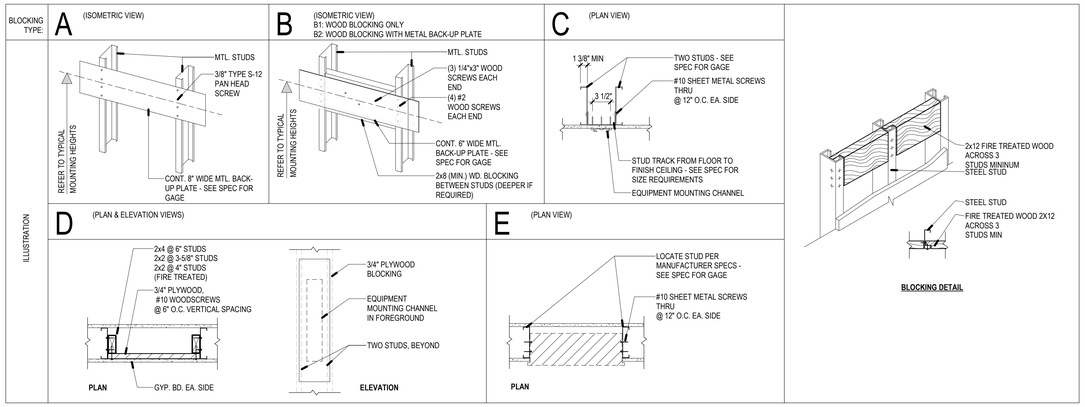
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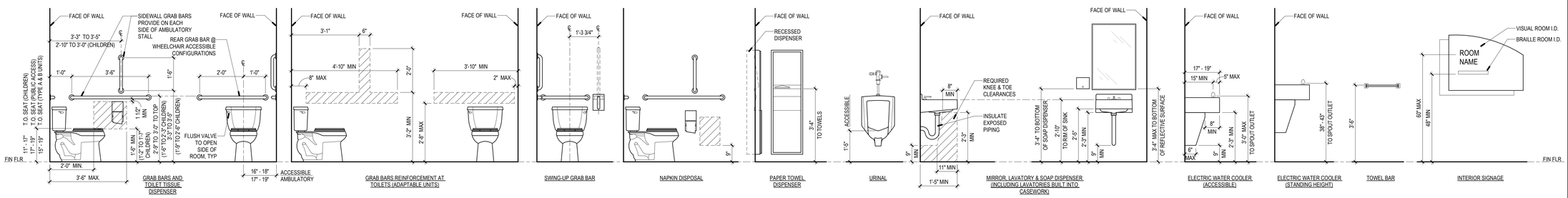
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MOUNTING HEIGHTS GENERAL NOTES

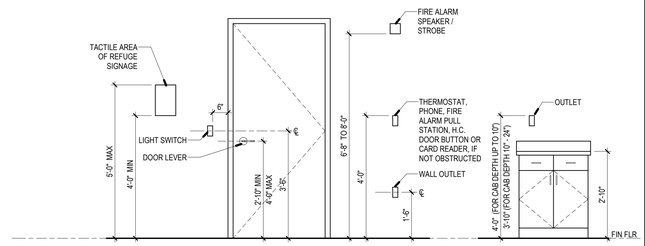
1. ALL DIMS TO WALL OR FLOOR SURFACES ARE TO FACE OF FINISH.
2. NOT ALL ITEMS MAY BE APPLICABLE TO THE PROJECT.



2 G004 BLOCKING KEY AND DETAILS
1" = 1'-0"



1 G004 TYPICAL MOUNTING HEIGHT KEY
1/2" = 1'-0"



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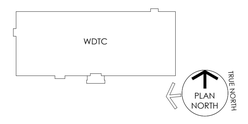
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SHEET TITLE:

MOUNTING HEIGHT STANDARDS

SHEET NUMBER:

G004

SHEET 4 OF 172

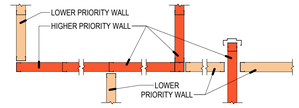
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PARTITION TYPES GENERAL NOTES

1. BELOW IS A LIST OF MODIFICATIONS TO THE BASE PARTITION TYPE. INTERIOR GYPSUM OR TILE BACKING BOARDS SHALL BE INSTALLED IN THE FOLLOWING LOCATIONS:
   A. **TYPE X**: WHERE REQUIRED FOR FIRE-RESISTANCE RATED ASSEMBLIES.
   B. **TYPE C**: WHERE REQUIRED FOR SPECIFIC FIRE-RESISTANCE RATED ASSEMBLIES.
   C. **CEMENTITIOUS BACKER BOARD**:
      1. SHOWER/TUB/SPA WALLS WITH TILE OR SOLID SURFACE FINISHES.
      2. NATATORIUMS WITH TILE.
      3. COMMERCIAL KITCHENS AND PANTRIES WITH WATER SOURCE(S) WITH TILE, FRP, OR STAINLESS STEEL PANELS.
         a. NOT TO INCLUDE DRY STORAGE SPACES.
      4. LOCATIONS WITH MANUFACTURED STONE OR LARGE FORMAT TILE (15"+ IN ANY ONE DIMENSION).
      5. ALL OTHER LOCATIONS INDICATED IN DRAWINGS.
   D. **WATER-RESISTANT BACKING BOARD**: AT TILED OR NON-TILED AREAS WITH LIMITED WATER EXPOSURE SUCH AS TOILET/SINK AREAS.
   E. **MOLD RESISTANT GYPSUM BOARD**:
      1. AT PARTITION WALLS WITHIN 5' OF A WATER FIXTURE U.O.N.
      2. CEILING AND ADJACENT PAINTED WALLS ABOVE SHOWERS OR TUBS.
      3. IN THE ENTIRETY OF THE FOLLOWING SPACES:
         a. BATHROOM, RESTROOM, AND TOILET ROOMS.
         b. JANITOR CLOSETS, CUSTODIAL, AND HOUSEKEEPING ROOMS.
         c. SOILED UTILITY ROOMS

PARTITION PRIORITY LEGEND



NOTE: SHEAR WALLS SHOWN WITH MORE THAN ONE RATING SHALL ASSUME THE MOST RESTRICTIVE RATING FOR THE ENTIRE LENGTH OF THE WALL

TWO HOUR FIRE & SMOKE PARTITION	PRIORITY 1 (HIGHEST)
TWO HOUR FIRE PARTITION	PRIORITY 2
TWO HOUR SHAFT PARTITION	PRIORITY 3
ONE HOUR FIRE & SMOKE PARTITION	PRIORITY 4
ONE HOUR FIRE RATED PARTITION	PRIORITY 5
NON RATED PARTITION	PRIORITY 6 (LOWEST)

ADDITIONAL ACOUSTICAL NOTES FOR STC WALLS

1. ATTACH GYPSUM BOARD BASE LAYER WITH BOARD LENGTH PERPENDICULAR TO STUDS AND SCREWED AT 16" O.C. SPACING.

2. ATTACH GYPSUM BOARD FACE LAYER PERPENDICULAR TO BASE LAYER AND SCREWED AT 16" O.C. SPACING.

3. USE FIBERGLASS TAPE AND JOINT COMPOUND TO FINISH GYPSUM BOARD FACE LAYER.

4. DO NOT USE GYPSUM BOARD OR METAL GUSSET PLATES ACROSS STUDS.

5. THE STC RATING IS BASED ON AN AVERAGE OF SEVERAL DATA SOURCES AND IS EXPECTED WITHIN ±3 STC POINTS OF THE STATED VALUE.

GENERAL AIR BARRIER & SEALING SYSTEM NOTES

AIR BARRIER NOTES

1. AS ACCESSORY TO THE SPECIFIED AIR/BARRIER SYSTEM, CONTRACTOR TO USE AND INSTALL THE SELECTED MANUFACTURE'S COMPATIBLE FLEXIBLE FLASHING MEMBRANE (SELF-ADHERING AND SELF-SEALING) AT ALL CRITICAL LOCATIONS, INCLUDING ALL SILL, HEAD, AND JAMBS OF ALL OPENINGS FOR A CONTINUOUS AND COMPLETE AIR BARRIER ASSEMBLY. COORDINATE INSTALLATION WITH METAL SILL AND HEAD PAN FLASHING AS REQUIRED BY MANUFACTURER'S LATEST INSTRUCTIONS. OTHER CRITICAL LOCATIONS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING, TO ENSURE CONTINUITY OF THE AIR/WEATHER BARRIER SYSTEM: INSIDE/OUTSIDE CORNERS, DECK TO WALL TRANSITIONS, FOUNDATION TO WALL TRANSITIONS, TOP OF WALL TO ROOF VAPOR BARRIER TRANSITIONS, DISSIMILAR MATERIAL TRANSITIONS, THROUGH-WALL PENETRATIONS, ETC.

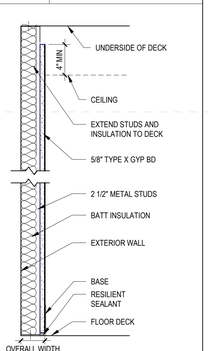
AIR SEALING NOTES

1. USE SHRINKPROOF, NON-HARDENING CAULK FOR GAPS LESS THAN 1/4".
2. USE EXPANDING FOAM FOR GAPS LARGER THAN 1/4".
3. USE LOW EXPANSION FOAM AT DOORS, WINDOWS, AND OTHER PRESSURE SENSITIVE ITEMS.
4. ALL PRODUCTS SHOULD BE INSTALLED PER MANUFACTURER'S PUBLISHED INSTALLATION REQUIREMENTS AND IN CONFORMANCE WITH APPLICABLE CODE.
5. CRACKS AND GAPS SHOULD BE CLEANED OUT PRIOR TO AIR SEALING.
6. COCOORDINATE RESPONSIBILITY FOR AIR SEALING WITH TRADES PRIOR TO START OF WORK.

LOCATIONS

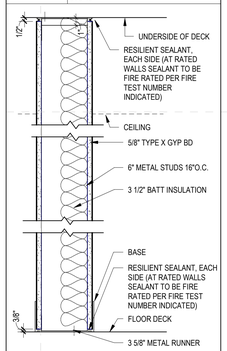
1. SEAL THE FULL PERIMETER OF BOTTOM METAL TRACKING TO SUBFLOOR.
2. SEAL THE FULL PERIMETER OF TOP PLATES TO DECKING.
3. SEAL ALL PENETRATING OBJECTS AT TOP PLATES.
4. SEAL ALL PENETRATING OBJECTS, GAPS, AND SEAMS AT SURFACE MEMBRANES OF THERMAL BOUNDARY ENVELOPE.
5. SEAL WINDOW AND DOOR ROUGH-IN FRAMES TO FRAMING OF EXTERIOR WALLS.
6. SEAL MILLWORK AND TRIM TO GYPSUM BOARD.
7. SEAL BACKS OF ELECTRICAL BOXES OF EXTERIOR WALLS.
8. INSTALL BLOCKING OR OTHERWISE AIR SEAL AT TOP OF ALL DOUBLE WALLS AND CHASES TO CAP ENCLOSED SPACES.
9. SEAL GYPSUM BOARD AT SEAMS AND PENETRATIONS WITHIN BULKHEADS, DROP CEILINGS, AND CHASES.

TYPE MARK: 9
EXISTING EXTERIOR WALL, 2 1/2" METAL STUDS; BATT INSULATION; 5/8" TYPE X GYP. BD.



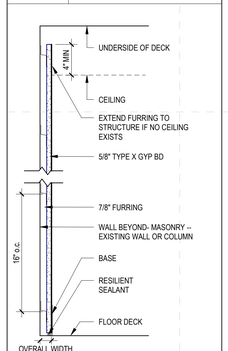
NOTES:
1. OCCURS AT EXTERIOR WALL.

TYPE MARK: 8
RATING: 1 HOUR
6" METAL STUD; 5/8" TYPE X GYP. BD. ON BOTH SIDES
STC 45



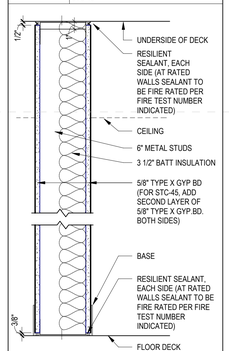
NOTES:
1. SAB SCHEDULED FOR PARTITION TYPE, UON
2. UL# U419 @ NON-BEARING WALLS

TYPE MARK: 7
EXISTING WALL OR COLUMN; 7/8" METAL STUD; 5/8" TYPE X GYP. BD.



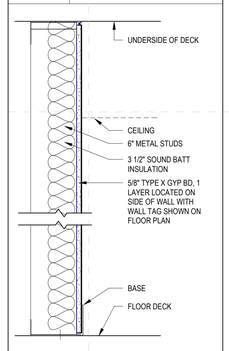
NOTES:

TYPE MARK: 6,6A
6" METAL STUD; SAB, 5/8" TYPE X GYP. BD. ON BOTH SIDES
STC 45



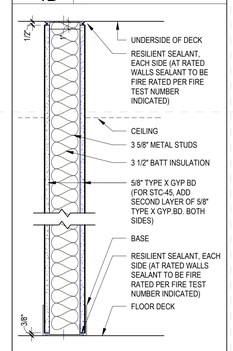
NOTES:
1. SAB SCHEDULED FOR PARTITION TYPE, UON
2. 6A SAME AS TYPE 6 WITHOUT SAB

TYPE MARK: 5,5A
6" METAL STUD; SAB, 5/8" TYPE X GYP. BD.



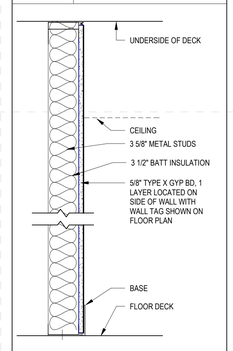
NOTES:
1. SAB SCHEDULED FOR PARTITION TYPE, UON
2. 5A SAME AS TYPE 5 WITHOUT SAB

TYPE MARK: 4,4A 4B
3 5/8" METAL STUD; 5/8" TYPE X GYP. BD. ON BOTH SIDES
STC 45



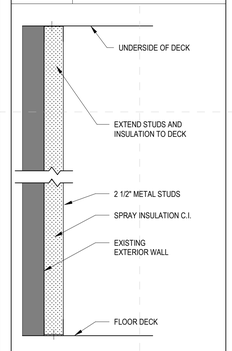
NOTES:
1. SAB SCHEDULED FOR PARTITION TYPE, UON
2. 4A SAME AS TYPE 4 WITHOUT SAB
3. 4B SAME AS TYPE 4, DOES NOT EXTEND TO DECK; HEIGHT OF WALL IS 10'-6". COORDINATE WITH MECH.

TYPE MARK: 3,3A
3 5/8" METAL STUD; 5/8" TYPE X GYP. BD.



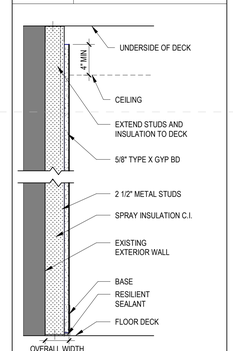
NOTES:
1. SAB SCHEDULED FOR PARTITION TYPE, UON
2. 3A SAME AS TYPE 3 WITHOUT SAB

TYPE MARK: 2
EXISTING EXTERIOR WALL, 2 1/2" METAL STUDS; 2" C.I. SPRAY INSULATION



NOTES:
1. OCCURS AT EXTERIOR WALL.

TYPE MARK: 1
EXISTING EXTERIOR WALL, 2 1/2" METAL STUDS; 2" C.I. SPRAY INSULATION; 5/8" TYPE X GYP. BD.



NOTES:
1. OCCURS AT EXTERIOR WALL.

1 G005 PARTITION TYPES KEY
1 1/2" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

TRIAD ENGINEERING, INC.
1075 D Sherman Ave
Hagerstown, MD | 21740
P: 301.797.6400 | F: 301.797.2424

Advanced Consulting Engineers P.A.
Structural Engineers
5235 Westview Drive
Suite 100
Frederick, MD | 21703
P: 301.258.8884

Henry Adams, LLC
600 Baltimore Ave
Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

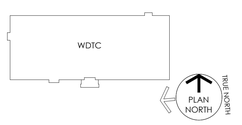
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PARTITION TYPES & STANDARDS

SHEET NUMBER:

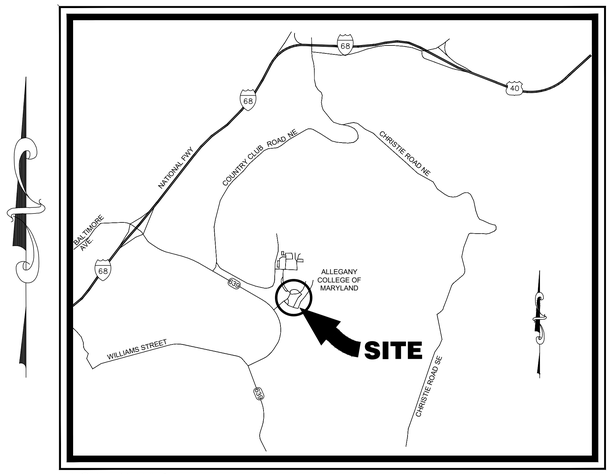
G005

SHEET 5 OF 172

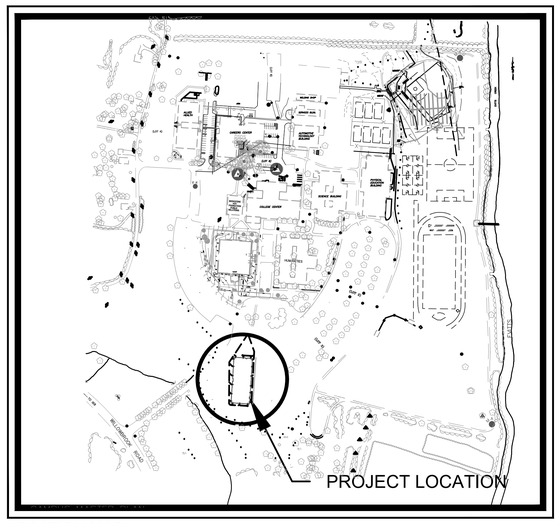
© 2026 NOELKER AND HULL ASSOCIATES, INC.

11/4/2026 9:03:35 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt

THE WORKFORCE TRAINING & DEVELOPMENT CENTER AT ALLEGANY COLLEGE OF MARYLAND



VICINITY MAP
SCALE: 1"=2,000'



LOCATION MAP
SCALE: 1" = 300'

SITE DATA:

TYPE OF USAGE:	COLLEGE
ACREAGE:	308.49 ACRES
ZONING:	RO- RESIDENTIAL OFFICE
PHYSICAL ADDRESS:	12401 WILLOWBROOK ROAD CUMBERLAND - ALLEGANY COUNTY, MD.
PURPOSE OF PLAN:	SITE IMPROVEMENT PLAN FOR THE WORKFORCE TRAINING AND DEVELOPMENT CENTER
DISTURBED AREA:	9,371 SF (.21 AC.)

PROJECT CONTACTS:

DEVELOPER:	ALLEGANY COLLEGE OF MARYLAND
ADDRESS:	12401 WILLOWBROOK ROAD CUMBERLAND, MD. 21502
CONTACT: PHONE NUMBER:	ADAM PHIPPS 301-784-5262
OWNER:	ALLEGANY COLLEGE OF MARYLAND
ADDRESS:	12401 WILLOWBROOK ROAD CUMBERLAND, MD. 21502
CONTACT: PHONE NUMBER:	ADAM PHIPPS 301-784-5262

SHEET INDEX:

COVER SHEET C.100
EXISTING CONDITIONS C.101
SITE LAYOUT & LANDSCAPE PLAN C.102
SWM & ESC PLANS C.103
DETAILS & NOTES C.104
DETAILS & NOTES C.105

PROJECT NOTES:

1. NO SUBSURFACE INVESTIGATION HAS BEEN PERFORMED BY TRIAD ENGINEERING, INC. TO DETERMINE THE EXISTENCE OR LOCATION OF GROUND WATER, ROCK, OR OTHER NATURAL OR MAN-MADE FEATURES. EXCEPT AS SPECIFICALLY INDICATED. NO ENVIRONMENTAL STUDIES HAVE BEEN CONDUCTED BY OUR FIRM.
2. EXISTING UTILITY INFORMATION SHOWN HEREON IS FROM NUMEROUS SOURCES INCLUDING, BUT NOT LIMITED TO PROPERTY OWNER, UTILITY OWNER, PAST SITE PLANS AND DRAWINGS AND LOCATION OF SURFACE FEATURES. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY MISS UTILITY AND ANY OTHER UTILITY AND SUBSURFACE INVESTIGATIVE SERVICES AT (1-800-257-7777) A MINIMUM OF 48 HOURS BEFORE BEGINNING ANY WORK SHOWN ON THESE DRAWINGS.ANY DAMAGE TO UTILITIES BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT HIS EXPENSE AND TO THE SATISFACTION OF THE UTILITY OWNER. HAND PIT EXCAVATION SHALL BE PROVIDED AS NEEDED BY CONTRACTOR TO LOCATE EXISTING UNDERGROUND UTILITIES.
3. THE CONTRACTOR SHALL NOTIFY THE APPLICABLE MUNICIPAL, COUNTY AND/OR STATE AUTHORITIES AT LEAST 48 HOURS BEFORE BEGINNING ANY WORK WITHIN PUBLIC RIGHT (S) OF WAY.
4. THE CONTRACTOR SHALL VERIFY ALL SURFACE AND SUBSURFACE CONDITIONS (LOCATIONS AND ELEVATIONS) PRIOR TO BIDDING AND START OF CONSTRUCTION. ANY DISCREPANCIES BETWEEN THE DRAWINGS AND ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE OWNER AND/OR ENGINEER BEFORE PROCEEDING IF THEY AFFECT THE DESIGN FEASIBILITY OF THIS PROJECT. ANY DAMAGE TO FACILITIES, STRUCTURES, PAVEMENT OR OTHER MAN-MADE ITEMS ON OR ADJACENT TO THE SITE OR NOT SPECIFICALLY INDICATED FOR DEMOLITION SHALL BE REPAIRED OR REPLACED AT CONTRACTOR'S EXPENSE AND TO THE SATISFACTION OF THE OWNER.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR COMPLYING WITH ALL APPLICABLE LEGAL AND REGULATORY REQUIREMENTS. CONTRACTOR SHALL OBTAIN ANY BONDS REQUIRED BY TOWN FOR WORK WITHIN TOWN RIGHT-OF-WAYS.
6. TEMPORARY EROSION CONTROL MEASURES WILL BE USED TO CORRECT CONDITIONS THAT DEVELOP DURING CONSTRUCTION THAT ARE UNFORESEEN DURING THE DESIGN STAGE OR THAT ARE NEEDED TO TEMPORARILY CONTROL EROSION THAT DEVELOPS DURING NORMAL CONSTRUCTION PRACTICES.
7. TRIAD ENGINEERING, INC. WILL NOT BE RESPONSIBLE FOR ANYTHING TO DO WITH CONSTRUCTION UNLESS CONTRACTED BY THE OWNER OR CONTRACTOR TO PERFORM A SPECIFIC SERVICE.
8. JOB SITE SAFETY SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.
9. NO TITLE REPORT HAS BEEN CONDUCTED BY THIS COMPANY OR FURNISHED TO US BY OTHERS. PROPERTY LINE INFORMATION HAS BEEN TAKEN FROM DEED (S) OF RECORD AND NOT FIELD VERIFIED.
10. IT SHALL BE THE SOLE RESPONSIBILITY OF THE OWNER AND/OR DEVELOPER TO OBTAIN ALL NECESSARY EASEMENTS AND/OR RIGHT OF WAYS NECESSARY IN ORDER TO COMPLETE THE PROJECT SHOWN ON THESE PLANS. TRIAD ENGINEERING, INC. WILL ASSUME NO RESPONSIBILITY OR LIABILITY ASSOCIATED WITH THE ACQUIRING OF OFFSITE EASEMENTS AND RIGHT OF WAYS.
11. ALL SPECIFICATIONS SHOWN HEREIN SHALL BE USED AND LOCAL, STATE AND FEDERAL SPECIFICATIONS SHALL BE MINIMUM STANDARD.
12. SITE PLANS INCLUDE BUILDING RECOMMENDATIONS BUT WILL REQUIRE THE PROFESSIONAL APPROVAL / STAMP OF A STRUCTURAL ENGINEER / ARCHITECT PRIOR TO CONSTRUCTION AND IS THE RESPONSIBILITY OF THE OWNER.

GENERAL NOTES:

1. TAX MAP 0026, GRID 012, PARCEL 0035
2. ELECTION DISTRICT: 22
3. DEED REFERENCE: BEING ALL OF THE LANDS CONVEYED BY WILLARD J. AND JEAN ALMA MOORE UNTO ALLEGANY COMMUNITY COLLEGE., BY DEED DATED DECEMBER 28,1967 AND RECORDED AMONG THE LAND RECORDS OF ALLEGANY COUNTY, MARYLAND IN LIBER 415, AT FOLIO 147.
4. SITE AREA =308.491 AC.±
5. TOPOGRAPHIC FEATURES SHOWN HEREON WERE DERIVED FROM A TOPOGRAPHIC SURVEY PERFORMED BY TRIAD ENGINEERING, INC. DATED JANUARY 13, 2026.
6. UTILITY INFORMATION WAS PROVIDED BY OWNER.
7. SITE IS ZONED "RO" - RESIDENTIAL OFFICE PER THE OFFICIAL ZONING MAP - CITY OF CUMBERLAND, MD.
8. EXISTING AND PROPOSED USAGE IS A PUBLIC COLLEGE.
9. THE PURPOSE OF THIS PLAN IS FOR SITE IMPROVEMENTS FOR WORKFORCE TRAINING AND DEVELOPMENT CENTER AT ACM.
10. MINIMUM REQUIREMENTS PER 6.03 DEVELOPMENT REGULATIONS OF THE CITY OF CUMBERLAND ZONING ORDINANCE:

    a. LOT REQUIREMENTS:
       MINIMUM LOT AREA: 12,000 S.F.
       MINIMUM LOT WIDTH: 100'

    b. FRONT BUILDING SETBACK LINES: 30'

    c. SIDE BUILDING SETBACK LINES: 15'

    d. REAR BUILDING SETBACK LINES: 35'

CERTIFICATIONS:

APPROVED FOR SEDIMENT EROSION CONTROL

BRENT WALKER, ALLEGANY COUNTY
SOIL CONSERVATION DISTRICT

OWNER/DEVELOPER'S CERTIFICATION

I/WE HEREBY CERTIFY THAT ALL CLEARING, GRADING, CONSTRUCTION AND/OR DEVELOPMENT WILL BE DONE PURSUANT TO THIS PLAN AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATION OF ATTENDANCE AT A MARYLAND DEPARTMENT OF THE ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I HEREBY AUTHORIZE THE RIGHT OF ENTRY FOR PERIODIC ON-SITE EVALUATION BY STATE OF MARYLAND, DEPARTMENT OF THE ENVIRONMENT, COMPLIANCE INSPECTORS."

9-17-2026	3017845262	
DATE:	PHONE NO:	OWNER/DEVELOPER SIGNATURE:
12409 Willowbrook Rd Cumberland MD 21502		Adam Phipps Dir Physical Plant
ADDRESS:		PRINTED NAME & TITLE:

DESIGN PROFESSIONAL CERTIFICATION

I HEREBY CERTIFY THAT THIS PLAN HAS BEEN DESIGNED IN ACCORDANCE WITH THE 2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, THE 2010 MARYLAND STORMWATER DESIGN MANUAL, VOLUMES I & II AND ACCEPTED STANDARDS OF ENGINEERING PRACTICE.

9/17/2026	301-797-6400	
DATE:	PHONE NO.:	DESIGNER' SIGNATURE:
# 34688		BILLIE SWAILES
MD. REGISTRATION NO.:		PRINTED NAME:

(P.E.) R.L.S., R.L.A. (CIRCLE)

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

TRIAD ENGINEERING, INC.
1075 D Sherman Ave
Hagerstown, MD | 21740
P: 301.797.6400 | F: 301.797.2424

Advanced Consulting Engineers P.A.
Structural Engineers
5235 Westview Drive
Suite 100
Frederick, MD | 21703
P: 301.258.8884

Henry Adams, LLC
600 Baltimore Ave
Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date
License #_____, Expiration Date

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

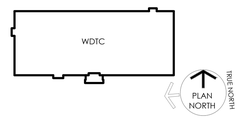
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

Maryland DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
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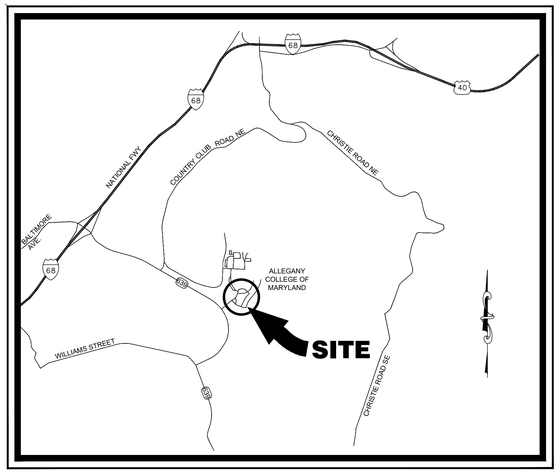
COVER SHEET

SHEET NUMBER:

C-100

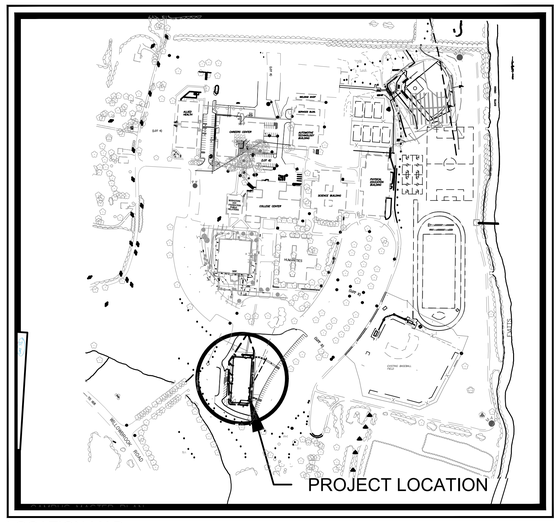
SHEET 6 OF 172

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Autodesk Docs://25909 Allegany College of MD TADM/TDC Renovation/25909_Allegany College_V25.rvt



VICINITY MAP

SCALE: 1"=2,000'



LOCATION MAP

SCALE: 1" = 300'

LEGEND

- PROPERTY BOUNDARY
- LOD — LIMITS OF DISTURBANCE
- EXISTING TREES
- BnC — SOIL TYPE & DESIGNATION BOUNDARY
- EXISTING CONCRETE SIDEWALKS
- EXISTING WATER LINE
- EXISTING FENCE LINE
- EXISTING STORM DRAIN PIPE
- HANDICAP PARKING SPACE
- SANITARY SEWER MANHOLE / PUM
- SANITARY LINE
- UNDERGROUND THERMAL WATER LINE
- UE — UNDERGROUND ELECTRIC
- UG — UNDERGROUND GAS LINE
- SF — SILT FENCE
- EXISTING LIGHT POLE
- EXISTING ROOF LEADER DRAIN

GENERAL SENSITIVE AREA NOTES:

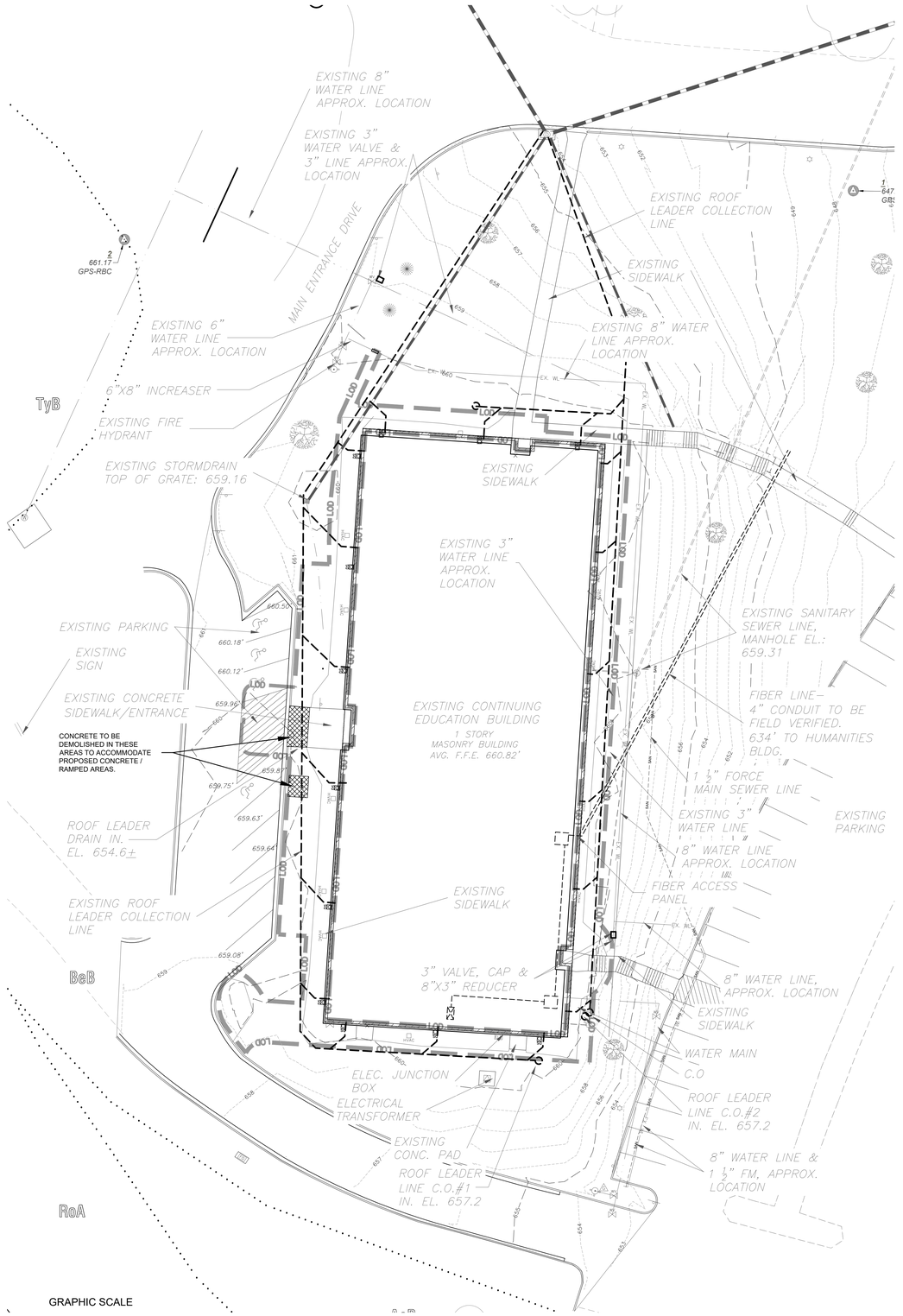
1. THERE ARE NO INTERMITTENT STREAM SYMBOLS ASSOCIATED WITHIN THE PROJECT LIMITS ACCORDING TO THE SOIL SURVEY OF ALLEGANY COUNTY, MARYLAND AND THE MARYLAND WATER BODIES - RIVERS AND STEAMS ONLINE MAPPING APPLICATION. SEE MAPPING HEREIN.
2. THE SITE IS NOT AFFECTED BY THE LIMITS OF THE 100 YEAR FLOOD PLAIN AS SHOWN ON THE FLOOD INSURANCE RATE MAP PANEL NO. 24001C0063E , WITH AN EFFECTIVE DATE OF APRIL 3, 2020.
3. SOIL TYPE BeB IS CLASSIFIED AS NOT PRIME FARMLAND.
4. THERE ARE NO STEEP SLOPES GREATER THAN 15% WITHIN SITE LIMITS. SEE MAPPING HEREIN.
5. THERE IS NO KNOWN HABITAT OF FEDERALLY THREATENED OR ENDANGERED SPECIES ON THIS SITE, AS IDENTIFIED BY THE U.S. FISH AND WILDLIFE SERVICE PER 50 CFR 17.
6. THERE ARE NO KNOWN HISTORIC BUILDINGS OR STRUCTURES AT THE SITE. BASED ON RECORDS AND OTHER AVAILABLE INFORMATION IT DOES NOT APPEAR THE PROJECT WILL AFFECT ANY HISTORIC RESOURCES.
7. THE SITE IS LOCATED WITHIN THE MDE 8-DIGIT EVITTS CREEK WATERSHED.
8. NO KNOWN SINKHOLES OR CLOSED DEPRESSIONS ARE KNOWN TO EXIST ON SITE OR WITHIN THE PROJECT GRADING AREAS.
9. THE TOTAL PROJECT AREA IS UNDER 30,000 S.F.
10. EXISTING BOUNDARY AND TOPOGRAPHIC INFORMATION WAS OBTAINED FROM FIELD SURVEYS PERFORMED BY TRIAD ENGINEERING.
11. HORIZONTAL DATUM: NORTH AMERICAN DATUM OF 1983 (NAD83) MARYLAND STATE PLANE ZONE, US FOOT.
12. VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
13. NO WETLANDS ARE LOCATED IN PROJECT AREA.

TABLE 5.1 NATURAL RESOURCES AND THE CORRESPONDING REGULATORY AUTHORITIES

LOCAL	STEEP SLOPES	NONE FOUND ON SITE
	HIGHLY ERODIBLE SOILS	NONE FOUND ON-SITE
	ENHANCED STREAM BUFFERS	NOT APPLICABLE
	TOPOGRAPHY/SLOPES	SEE MAPPING
	SPRINGS	NONE FOUND ON-SITE
	SEEPS	NONE FOUND ON-SITE
	DRAINAGE DEPRESSIONS	NONE FOUND ON-SITE
	VEGETATIVE COVER	SOME IMPERVIOUS, SITE PRIMARILY LAWN
	SOILS	SEE MAPPING AND TABLE
	BEDROCK/GEOLOGY	BRALLIER FORMATION (Dch)
	EXISTING DRAINAGE AREAS	SEE MAPPING
STATE	TIDAL AND NON-TIDAL WETLANDS	NONE FOUND ON-SITE
	WETLANDS OF SPECIAL STATE CONCERN	NONE FOUND ON-SITE
	WETLAND BUFFERS	NOT APPLICABLE
	STREAM BUFFERS	NOT APPLICABLE
	MAJOR WATERWAYS	NONE FOUND ON-SITE
	FLOODPLAINS	SEE MAPPING
	FORESTS	NONE FOUND ON-SITE
	FOREST BUFFERS	NOT APPLICABLE
	CRITICAL AREAS	NONE FOUND ON-SITE
FEDERAL	WETLANDS	NONE FOUND ON-SITE
	MAJOR WATERWAYS	NONE FOUND ON-SITE
	FLOODPLAINS	SEE MAPPING

SOIL TYPES ON SITE

SYMBOL	DESCRIPTION	K FACTOR (WHOLE)	HYDROLOGIC SOILS GROUP	FARMLAND CLASS
BeB	BERKS-URBAN LAND COMPLEX, 0 TO 8 PERCENT SLOPES	.20	D	NOT PRIME FARMLAND



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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date
License # _____, Expiration Date

PROJECT TITLE

WORKFORCE DEVELOPMEN AND TRAINING CENTER RENOVATION

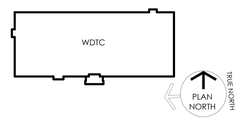
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE CUMBERLAND, MD 21501

PROJECT OWNER

Maryland DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

EXISTING CONDITIONS / DEMOLITION PLAN

SHEET NUMBER:

C-101

SHEET 7 OF 172

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LEGEND

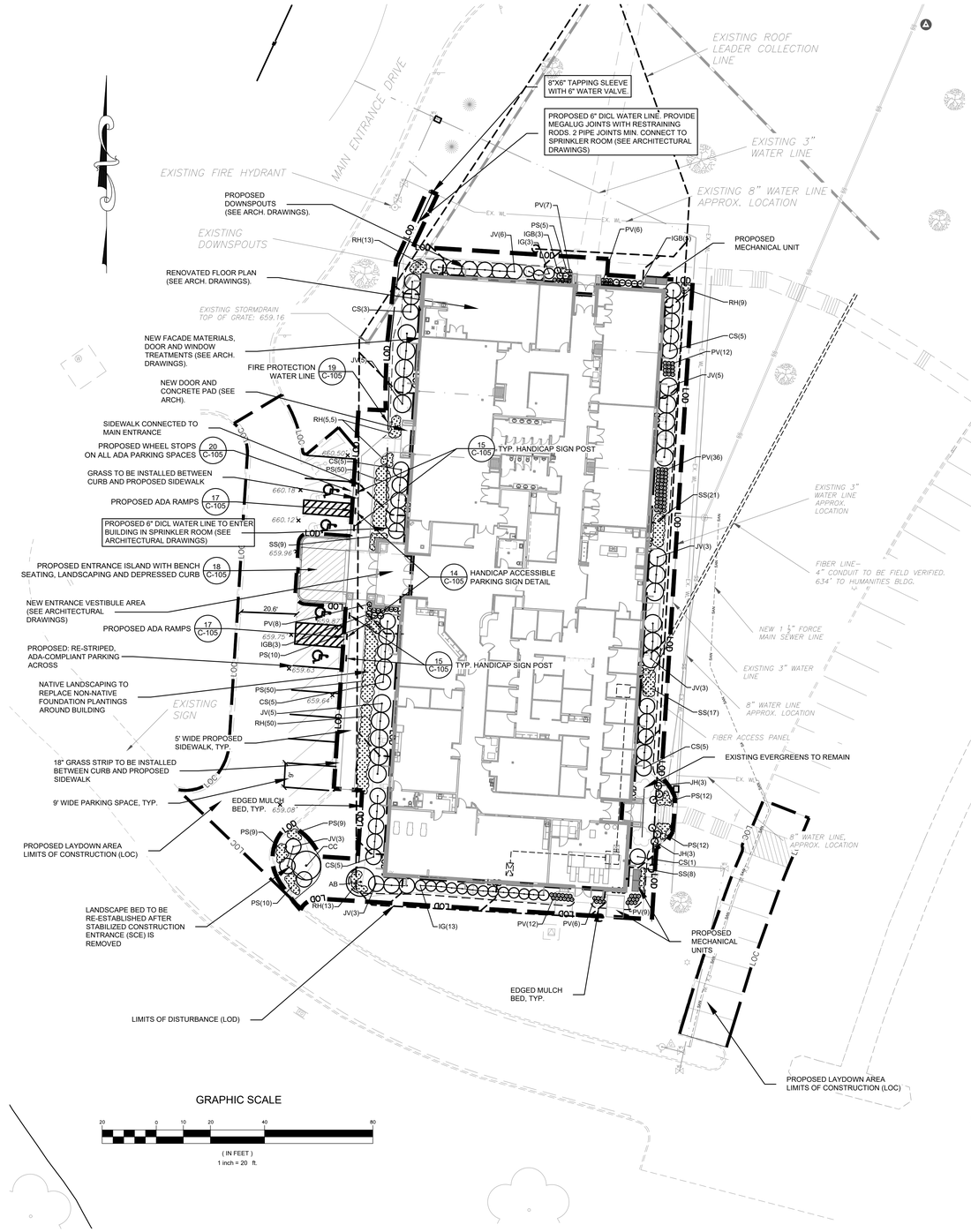
- PROPERTY BOUNDARY
- LOD — LIMITS OF DISTURBANCE
- EXISTING TREES
- GbC — SOIL TYPE & DESIGNATION BOUNDARY
- EXISTING CONCRETE SIDEWALKS
- EXISTING WATER LINE
- EXISTING FENCE LINE
- EXISTING STORM DRAIN PIPE
- HANDICAP PARKING SPACE
- SANITARY SEWER MANHOLE / PUM
- SANITARY LINE
- UNDERGROUND THERMAL WATER LINE
- UE — UNDERGROUND ELECTRIC
- UG — UNDERGROUND GAS LINE
- SF — SILT FENCE
- EXISTING LIGHT POLE

IMPERVIOUS AREA SUMMARY TABLE			
PRE-DEVELOPMENT	**AREA (SF)**	**QUANTITY**	**TOTAL AREA IN LOD (SF)**
BUILDING	---	---	FACADE ONLY
SIDEWALKS / STOOPS		5	822
TOTAL PRE-DEVELOPMENT			822
POST-DEVELOPMENT	**AREA (SF)**	**QUANTITY**	**TOTAL AREA (SF)**
BUILDING ADDITIONS			0
SIDEWALKS			+665
TOTAL POST DEVELOPMENT			1,487 SF

TOTAL AREA OF DISTURBANCE = 9,371 SF

GENERAL NOTES:

1. TAX MAP 0026, GRID 012, PARCEL 0035
2. ELECTION DISTRICT: 22
3. DEED REFERENCE: BEING ALL OF THE LANDS CONVEYED BY WILLARD J. AND JEAN ALMA MOORE UNTO ALLEGANY COMMUNITY COLLEGE, BY DEED DATED DECEMBER 28,1967 AND RECORDED AMONG THE LAND RECORDS OF ALLEGANY COUNTY, MARYLAND IN LIBER 415, AT FOLIO 147.
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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

GENERAL NOTES:

A. MATERIALS

(1) PLANTS SHALL BE NURSERY GROWN. IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND GROWN UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE IN THE LOCALITY OF THE PROJECT. THEY SHALL HAVE BEEN ROOT PRUNED WITHIN THE LAST TWO YEARS.

THEY SHALL BE SOUND, HEALTHY AND VIGOROUS, WELL BRANCHED AND DENSELY FOLIATED WHEN IN LEAF. THEY SHALL BE FREE OF DISEASE, PEST, EGGS OR LARVAE, AND SHALL HAVE A HEALTHY, DEVELOPED ROOT SYSTEM. TREES AND SHRUBS SHALL NOT BE PRUNED BEFORE DELIVERY. ALL PLANTS WITH A DAMAGED OR CROOKED LEADER OR MULTIPLE LEADERS, ABRASIONS ON THE BARK, SUNSCALD, DISFIGURING KNOTS OR FRESH CUTS. OVER 1 1/2" WILL BE REJECTED, THE OWNER RESERVES THE RIGHT TO HAVE THE PLANT MATERIAL INSPECTED AND TAGGED AT THE GROWING SITE AND TO REJECT ANY DEFICIENT MATERIAL AT THE JOB SITE. THE LANDSCAPE ARCHITECT OR PLAN PREPARER SHALL REJECT ANY AND ALL PLANT MATERIAL THAT DOES NOT MEET SPECIFICATIONS, IS DISEASED, OR IS OTHERWISE UNHEALTHY.

NO CHANGE IN QUANTITY, SIZE, KIND OR QUALITY OF PLANT SPECIFIED WILL BE PERMITTED WITHOUT THE APPROVAL OF THE LANDSCAPE ARCHITECT/DESIGNER. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE PLANT COUNT AND IN ANY INSTANCE WHERE THERE IS A DISCREPANCY BETWEEN THE PLAN VIEW AND THE LANDSCAPE SCHEDULE, THE PLAN VIEW SHALL PRESIDE.

(2) TOPSOIL SHALL BE FERTILE, FRIABLE AND TYPICAL OF THE LOCALITY. IT SHALL BE FREE OF STONES, LUMPS, PLANTS, ROOTS, STICKS AND SHALL NOT BE DELIVERED IN A FROZEN OR MUDDY CONDITION. COMPACTED SOILS THAT CANNOT BE RESTORED TO A REASONABLE PLANTING SOIL SHALL BE REMOVED AND REPLACED WITH FRIABLE NATIVE SOILS.

(3) PLANTING SOIL (BACKFILL MIX) SHALL BE FIVE PARTS NATIVE TOPSOIL AND ONE PART WET LOOSE PEATMOSS.

(4) STAKING MATERIALS: GUY WIRE SHALL BE PLIABLE 12 GAUGE GALVANIZED TWISTED TWO STRAND WIRE, HOSE SHALL BE A SUITABLE LENGTH OF TWO-PLY, REINFORCED BLACK RUBBER HOSE **3/4"** INCH IN DIAMETER.

(5) MULCH: MULCH SHALL BE ORGANIC DOUBLE SHREDDED HARDWOOD BARK FREE OF HERBICIDES, LARGE CHUNKS AND WEEDS AND SEED AND AGED A MINIMUM OF 6 MONTHS.

B. APPLICABLE SPECIFICATIONS AND STANDARDS:

(1) "STANDARDIZED PLANT NAMES," LATEST EDITION AMERICAN JOINT COMMITTEE ON HORTICULTURAL NOMENCLATURE.

(2) "AMERICAN STANDARD FOR NURSERY STOCK," LATEST EDITION, AMERICAN ASSOCIATION OF NURSERYMEN.

C. STAKING AND PRUNING:

GENERALLY STAKING OF TREES IS NOT RECOMMENDED. HOWEVER, IN AREAS OF HIGH WIND AND TREES TALLER THAN 8 FT. SHOULD BE STAKED IMMEDIATELY AFTER PLANTING. PLANTS SHALL STAND PLUMB AFTER STAKING. STANDARD TREE PLANTING STAKES AND GUY WIRES SHALL BE UTILIZED. THEY SHALL BE REMOVED AT THE END OF THE GUARANTEE PERIOD AND DISPOSED OF OFF SITE BY THE CONTRACTOR.

REMOVE ALL DEAD WOOD, SUCKERS, OR BROKEN BRANCHES AND PRESERVE THE NATURAL CHARACTER OF THE PLANT.

D. POST PLANTING RESPONSIBILITIES:

THE OWNER/DEVELOPER THROUGH HIS/HER CONTRACT WITH THE LANDSCAPE CONTRACTOR IS RESPONSIBLE AND SHALL INSURE ADEQUATE MAINTENANCE IS PROVIDED THROUGH THE INSTALLATION AND WARRANTY PERIOD. THIS INCLUDES PROPER WATERING AT INITIAL INSTALLATION, AS WELL AS WATERING IN PERIODS OF DROUGHT TO MAINTAIN PROPER PLANT GROWTH, SEED GERMINATION AND TO PREVENT STRESS ON YOUNG PLANTS.

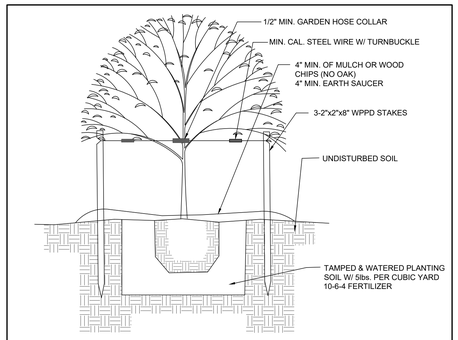
E. GUARANTEE:

TREES SHALL BE GUARANTEED FOR ONE (1) FULL YEAR FROM THE DATE THAT THE LANDSCAPE INSTALLATION IS ACCEPTED AS COMPLETE. PLANT MATERIAL NOT FOUND TO BE IN A HEALTHY, VIGOROUS CONDITION AT THE BEGINNING OF THE SECOND AND THIRD GROWING SEASON IS TO BE REPLACED WITH PLANT OF SAME SPECIES AND SIZE AS SHOWN ON THE ORIGINAL PLAN.

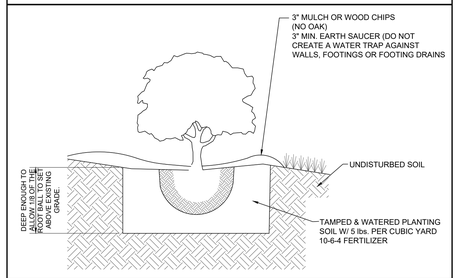
F. SEEDING:

SEEDING SHALL CONFORM TO INSTALLATION RECOMMENDATIONS BY SUPPLIER. APPROPRIATE QUANTITIES, MIXES / RATIOS AND TIMING OF SEEDING SHALL BE FOLLOWED TO INSURE PROPER GERMINATION. RE-SEEDING OR OVER-SEEDING EFFORTS SHALL OCCUR IF GERMINATION IS NOT SUCCESSFUL DUE TO ENVIRONMENTAL FACTORS. A MINIMUM OF 4" OF SCREENED TOPSOIL SHOULD BE INSTALLED AND FINE-GRADED POST-DEMOLITION AND PRIOR TO SEEDING IN AREAS OF SEED INSTALLATION TO PROVIDE ADEQUATE GROWTH MEDIUM FOR GERMINATION, PLANT ESTABLISHMENT AND FUTURE SURVIVAL. COMPACTED GROUND DUE TO CONSTRUCTION OR DEMOLITION ACTIVITY, AND SMALLER AREAS WITH EXISTING TURF OR VEGETATION SHALL BE TILLED FOR NEW SEED PREPARATION. ANY EXISTING NATIVE TREES IN GOOD HEALTH SHALL REMAIN IF FEASIBLE / PRACTICAL DURING DEMOLITION EFFORTS. HYDRO-SEEDING IS THE RECOMMENDED INSTALLATION METHOD FOR SEED APPLICATION , IF AVAILABLE. SEE ERNST SEED COMPANY FOR SPECIFIED SEED MIXES AND AVAILABILITY: ERNST CONSERVATION SEEDS

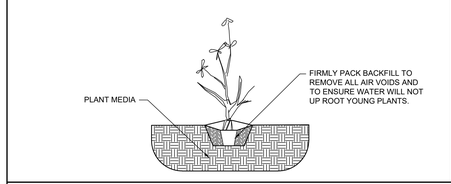
8884 MERCER PIKE
MEADVILLE, PA 16335
814-336-2404
WWW.ERNSTSEED.COM



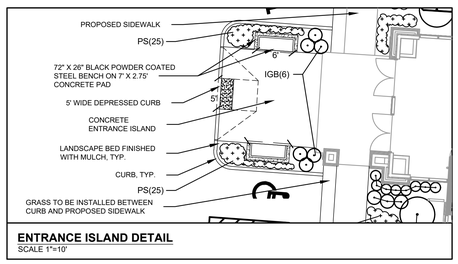
TYPICAL DECIDUOUS TREE DETAIL (LESS THAN 8')
N.T.S



TYPICAL SHRUB PLANTING DETAIL
N.T.S



PERENNIAL PLANTING DETAIL
N.T.S



ENTRANCE ISLAND DETAIL
SCALE 1"=10'

PLANT SCHEDULE									
SYMB.	KEY	QUANT.	BOTANICAL NAME	COMMON NAME	SIZE	MATURE HEIGHT	MATURE SPREAD	SPACING	REMARKS
	DECIDUOUS TREES								
	AB	1	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	11'2"-2" cal.	15' - 25'	15' - 20'	N/A	B & B
	CC	1	Cercis canandensis	Eastern Redbud	11'2"-2" cal.	15' - 25'	15' - 20'	N/A	B & B
	SHRUBS								
	CS	31	Cornus sericea 'Farrow" Arctic Fire	Arctic Fire Redtwig Dogwood	5 GAL.	3-4'	3-4'	SEE PLAN	CONTAINER
	IG	16	Ilex Glabra	Inkberry Holly	5 GAL.	5-8'	5-8'	SEE PLAN	CONTAINER
	IGB	23	Ilex Glabra 'Gem Box'	'Gem Box' Inkberry Holly	3 GAL.	2-3'	2-3'	SEE PLAN	CONTAINER
	JH	6	Juniperus horizontalis 'Compacta'	Compact Andorra Juniper	3 GAL.	1-1.5'	3-5'	SEE PLAN	CONTAINER
	JV	33	Juniperus virginiana 'Grey Owl'	Grey Owl Juniper	5 GAL.	2-3'	4-6'	SEE PLAN	CONTAINER
	PERENNIALS								
	CA	96	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Feather Reed Grass	2 GAL.	3'-6'	24"	2"	CONTAINER
	PS	217	Phlox subulata	Creeping Phlox/Moss Phlox	1 GAL.	6-8"	1-3'	15"-18"	CONTAINER
	RH	95	Rudbeckia hirta 'Toto'	'Toto' Black-Eyed-Susan	1 GAL.	8-12"	12"-15"	12"-15"	CONTAINER
	SS	55	Schizachyrium scoparium	'Standing Ovation' Little Bluestem	1 GAL.	2-4'	1'-2'	1-2'	CONTAINER

NOTES:
1. INSTALL MINIMUM 3 INCHES OF THICK DOUBLE SHREDDED HARDWOOD MULCH, NATURAL BROWN IN ALL PLANTING BEDS. IDEALLY, PLANTING BEDS ARE RE-MULCH EACH SPRING.
2. WATERING: PROPER WATERING MUST BE PRIORITIZED FROM DAY OF PLANT INSTALLATION UNTIL PLANTS ARE ESTABLISHED TO AVOID SHOCK AND / OR LOSS. IF PLANTED IN THE WARM SPRING, PLANTS SHALL BE WATERED EVERY OTHER DAY MINIMUM FOR 3-4 WEEKS DEPENDING ON TEMPERATURE AND PRECIPITATION AND SHALL BE MONITORED THEREAFTER. WATERING CAN BE INCREASED OR DECREASED IF PLANTED IN THE SUMMER OR FALL, RESPECTIVELY. PLANT INSTALLATION SHOULD BE AVOIDED IN EXTREME HEAT OR COLD.

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

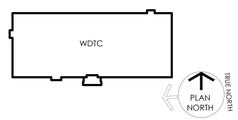
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE CUMBERLAND, MD 21501

PROJECT OWNER

Maryland DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

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ISSUE DATE: **11/06/2026**
SHEET TITLE:

SITE LAYOUT & LANDSCAPE PLAN

SHEET NUMBER:

C-102

SHEET 8 OF 172

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LEGEND

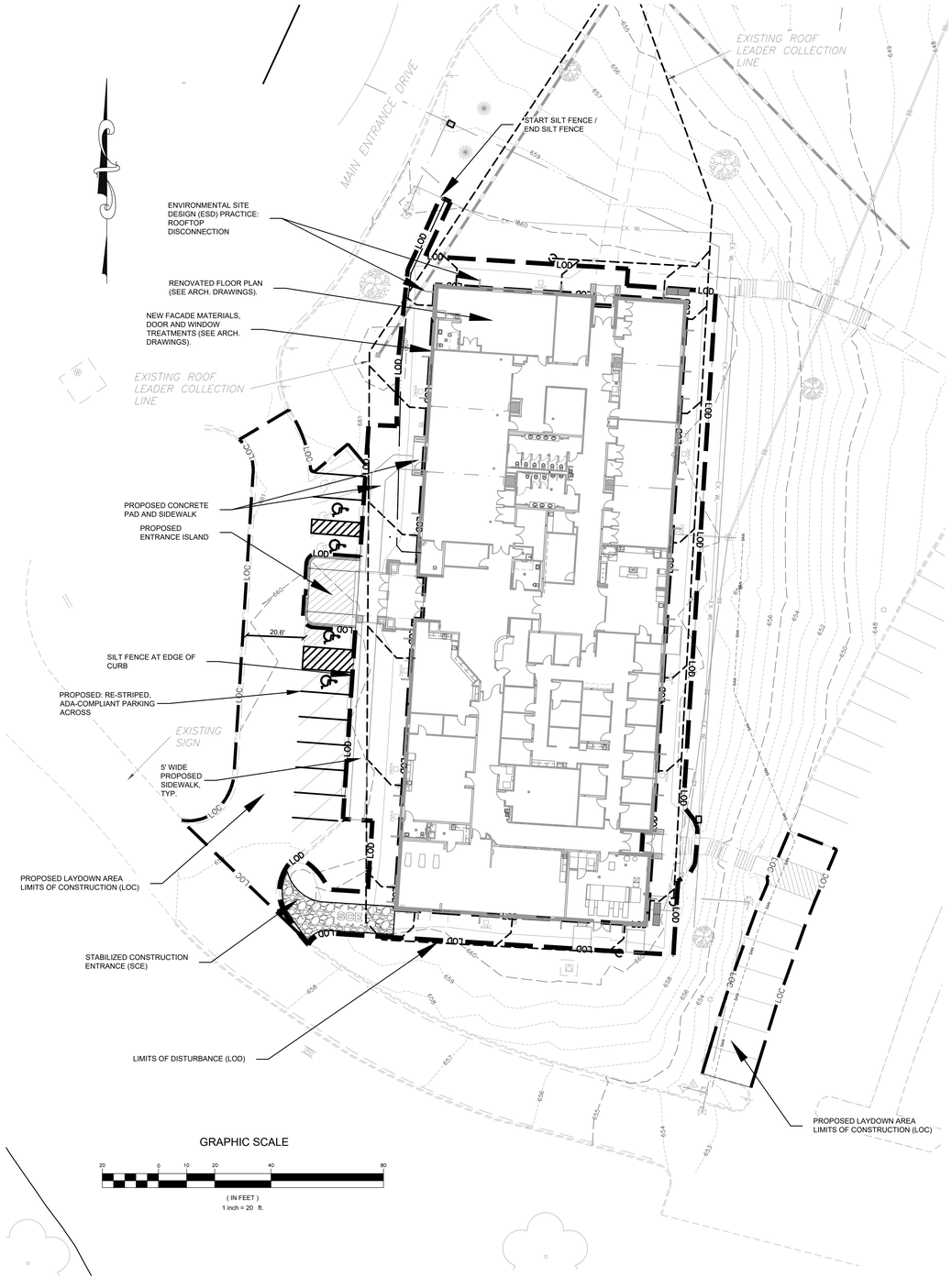
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GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)

1 inch = 20 ft.

SEQUENCE OF CONSTRUCTION

I. NOTIFICATION

A. FIVE (5) DAYS PRIOR TO THE START OF CONSTRUCTION NOTIFY THE ALLEGANY COUNTY SOIL CONSERVATION DISTRICT TO SCHEDULE A PRECONSTRUCTION MEETING.
B. NOTIFY THE ALLEGANY COUNTY DIVISION OF PUBLIC WORKS (ENGINEERING & CONSTRUCTION) 5 DAYS PRIOR TO THE START OF CONSTRUCTION.
C. NOTIFY TRIAD ENGINEERING, INC. OF PRE-CONSTRUCTION MEETING TIME AND DATE - (301) 797-6400.
D. CONTRACTOR SHALL NOTIFY MISS UTILITY AT (800) 257-7777 A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO START OF CONSTRUCTION.
E. CONTRACTOR SHALL NOTIFY CITY OF CUMBERLAND WATER DEPARTMENT A MINIMUM OF SEVENTY TWO (72) HOURS PRIOR TO CONNECTION.
F. ANY COORDINATION DURING CONSTRUCTION SHOULD BE WITH ALLEGANY COLLEGE AND THE ALLEGANY COUNTY'S ENGINEERING OFFICE.

II. INITIAL STABILIZATION

A. INSTALL STABILIZED CONSTRUCTION ENTRANCE (SCE).
B. INSTALL PERIMETER CONTROLS: SMART FENCE / SILT FENCE AS SHOWN PER PLANS. SILT FENCE TO BE PLACED AROUND ENTIRE LOD EXTENTS EXCLUDING CONSTRUCTION ENTRANCE.
C. INSTALL SILT FENCE ALONG DOWNHILL SLOPE OF OF ANY GRUBBED AREA OR SOIL STOCKPILE AND TEMPORARILY SEED IN ACCORDANCE WITH STABILIZATION SPECIFICATIONS WITHIN 3 CALENDAR DAYS. NOTE: ANY SPOIL AND /OR BORROW, MUST COME FROM AND/ OR GO TO, A SITE WITH AN APPROVED AND CURRENT SOIL EROSION AND SEDIMENT CONTROL PLAN. ANY DEMOLITION THAT INCLUDES BUILDING MATERIAL MUST GO TO A MDE APPROVED SITE.

III. PHASE 1 CONSTRUCTION

A. SAWCUT ANY SIDEWALKS AS SHOWN PER SITE PLAN AND REMOVE TO APPROVED LOCATION.
B. DEMO EXISTING FASCADE AS PER ARCHITECTURAL PLAN. REMOVE TO AN APPROVED LOCATION.
C. RE-GRADE AND DISTURBED AREAS AND GRADE SITE AND STABILIZE WITH TEMPORARY SEED AND MULCH IN ACCORDANCE WITH STABILIZATION SPECIFICATIONS WITHIN 3 CALENDAR DAYS.
D. EXCAVATE AND INSTALL UTILITIES.
E. BEGIN ARCHITECTURAL RENOVATIONS TO EXISTING BUILDING.
F. INSTALL CONCRETE CURB, CONCRETE SIDEWALK ETC.
G. USING ANY TEMPORARY TOPSOIL STOCKPILE, SPREAD TOPSOIL TO FINE GRADE SITE AND STABILIZE WITH PERMANENT SEED AND MULCH ANY REMAINING AREAS.
H. INSTALL LIGHTING, LANDSCAPE AND ANY REMAINING AMENITIES AS SHOWN PER PLAN .

VI. SITE CLOSEOUT

A. WITH ANY DISTURBANCE GRADED AND 95% OVERALL VEGETATIVE COVER IN PLACE, NOTIFY THE ALLEGANY COUNTY SOIL CONSERVATION DISTRICT AND THE ALLEGANY COUNTY DIVISION OF PUBLIC WORKS (ENGINEERING AND CONSTRUCTION) AT LEAST FIVE (5) DAYS PRIOR TO THE REMOVAL OF ANY SEDIMENT CONTROL FEATURES TO SCHEDULE A FINAL SITE CLOSEOUT REVIEW MEETING.
B. UPON APPROVAL BY THE ALLEGANY COUNTY SOIL CONSERVATION DISTRICT, REMOVE ALL SEDIMENT CONTROL DEVICES. STABILIZE, SEED AND MULCH ANY AREAS DISTURBED DURING CONTROL REMOVAL.

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853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date
License # , Expiration Date

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

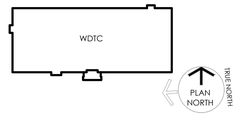
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

Maryland DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

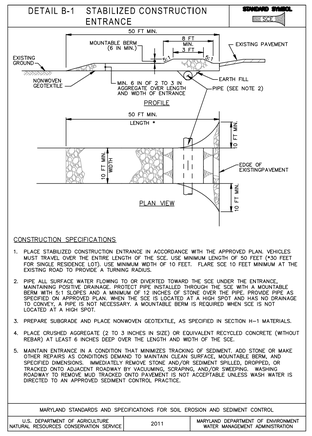
SWM & ESC PLAN

SHEET NUMBER:

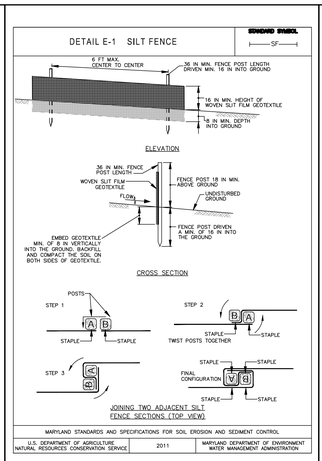
C-103

SHEET 9 OF 172

8/7/2026 9:46:59 AM Autodesk Docs://25909 Allegany College of MD ACM WTDC Renovation/25909_Allegany College_V25.rvt



1 **STABILIZED CONSTRUCTION ENTRANCE**
NOT TO SCALE

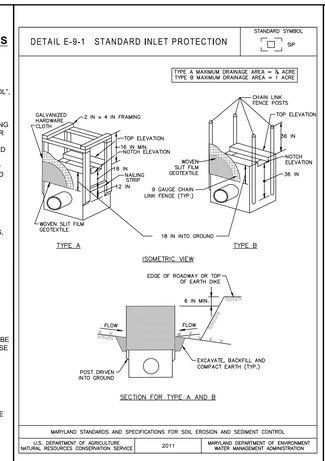


2 **SILT FENCE DETAIL**
NOT TO SCALE

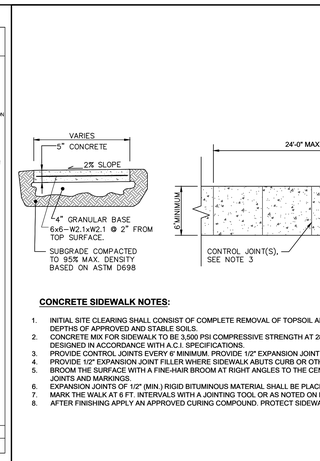
SOIL EROSION, SEDIMENT CONTROL, & SEEDING NOTES

1. ALL SOIL EROSION/SEDIMENT CONTROL MEASURES SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" AND THE PROVISIONS OF THE APPROVED PLAN.
2. ALL GRADING AND STABILIZATION SHALL COMPLY WITH THE "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", "SECTION B – GRADING AND STABILIZATION" AND THE PROVISIONS OF THE APPROVED PLAN.
3. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES ARE TO BE CONSTRUCTED AND/OR INSTALLED PRIOR TO OR AT THE INITIATION OF GRADING IN ACCORDANCE WITH "2011 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL", AND THE APPROVED PLAN.
4. A GRADING UNIT IS THE MAXIMUM CONTIGUOUS AREA ALLOWED TO BE GRADED AT A GIVEN TIME AND IS LIMITED TO 20 ACRES. WORK MAY PROCEED TO A SUBSEQUENT GRADING UNIT WHEN AT LEAST 50 PERCENT OF THE DISTURBED AREA IN THE PRECEDING GRADING UNIT HAS BEEN STABILIZED AND APPROVED BY THE ENFORCEMENT AUTHORITY AND/OR THE ALLEGANY COUNTY SOIL CONSERVATION DISTRICT (APPROVAL AUTHORITY). UNLESS OTHERWISE SPECIFIED AND APPROVED BY THE APPROVAL AUTHORITY, NO MORE THAN 30 ACRES CUMULATIVELY MAY BE DISTURBED AT A GIVEN TIME.
5. FOR INITIAL SOIL DISTURBANCE OR RE-DISTURBANCE, TEMPORARY, OR PERMANENT STABILIZATION MUST BE COMPLETED WITHIN:
   A) THREE (3) CALENDAR DAYS AS TO THE SURFACE OF ALL PERIMETER DIKES, SWALES, DITCHES, PERIMETER SLOPES, AND ALL SLOPES STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL (3:1); AND
   B) SEVEN (7) CALENDAR DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE NOT UNDER ACTIVE GRADING.
6. STOCKPILES MUST BE STABILIZED IN ACCORDANCE WITHIN THE 7 DAY STABILIZATION REQUIREMENT, AS WELL AS, STANDARD B-4-1 INCREMENTAL STABILIZATION AND STANDARD B-4-4 TEMPORARY STABILIZATION (AS APPLICABLE).
7. ALL CONSTRUCTED CHANNELS AND SWALES SHALL HAVE SPECIFIED TREATMENT INSTALLED TO THE DESIGN DEPTH COMPLETED DOWNSTREAM TO UPSTREAM AS CONSTRUCTION PROGRESSES. AN INSTALLATION DETAIL SHALL BE SHOWN ON THE PLANS.
8. ALL STORM DRAIN AND SANITARY SEWER LINES NOT IN PAVED AREAS ARE TO BE MULCHED AND SEEDED WITHIN 3 DAYS OF INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
9. ELECTRIC POWER, TELEPHONE, AND GAS LINES ARE TO BE COMPACTED, SEEDED, AND MULCHED WITHIN 3 DAYS AFTER INITIAL BACKFILL UNLESS OTHERWISE SPECIFIED ON PLANS.
10. NO SLOPE SHALL BE GREATER THAN 2:1.
11. AS REQUIRED SECTION VI-C OF THE MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL, "ADEQUATE VEGETATIVE STABILIZATION", IS DEFINED AS 95 PERCENT GROUND COVER. THE ALLEGANY COUNTY SOIL CONSERVATION DISTRICT REQUIRES THE PROJECT ADHERE TO THIS FOR SCHEDULING OF THE FINAL SITE CLOSEOUT REVIEW, AND/OR RELEASE OF THE SITE FOR SOIL EROSION AND SEDIMENT CONTROL.

3 **SEDIMENT AND EROSION CONTROL NOTES**
NOT TO SCALE



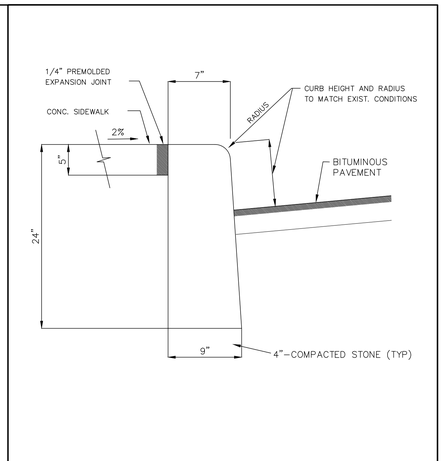
4 **STANDARD INLET PROTECTION DETAIL**
NOT TO SCALE



CONCRETE SIDEWALK NOTES:

1. INITIAL SITE CLEARING SHALL CONSIST OF COMPLETE REMOVAL OF TOPSOIL AND ORGANIC MATERIAL TO DEPTHS OF APPROVED AND STABLE SOILS.
2. CONCRETE MIX FOR SIDEWALK TO BE 3,500 PSI COMPRESSIVE STRENGTH AT 28 DAYS AND SHALL BE DESIGNED IN ACCORDANCE WITH A.C.I. SPECIFICATIONS.
3. PROVIDE CONTROL JOINTS EVERY 6' MINIMUM. PROVIDE 1/2" EXPANSION JOINT EVERY 24' O/C MAX.
4. PROVIDE 1/2" EXPANSION JOINT FILLER WHERE SIDEWALK ABUTS CURB OR OTHER RIGID STRUCTURE(S)
5. BROOM THE SURFACE WITH A FINE-HAIR BROOM AT RIGHT ANGLES TO THE CENTERLINE. TOOL ALL EDGES, JOINTS AND MARKINGS.
6. EXPANSION JOINTS AT 1/2" (MIN.) RIGID BITUMINOUS MATERIAL SHALL BE PLACED AT 24' SPACING.
7. THE NEW WALK AT 6 FT. INTERVALS WITH A JOINTING TOOL OR AS NOTED ON DRAWINGS.
8. AFTER FINISHING APPLY AN APPROVED CURING COMPOUND. PROTECT SIDEWALK FOR 7 DAYS.

5 **CONCRETE SIDEWALK DETAIL**
NOT TO SCALE



6 **STANDAR STRAIGHT CURB DETAIL**
NOT TO SCALE

SOD - GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS:

a. CLASS OF TURFGRASS SOD MUST BE MARYLAND STATE CERTIFIED. SOD LABELS MUST BE MADE AVAILABLE TO THE JOB FOREMAN AND INSPECTOR.
b. SOD MUST BE MACHINE CUT AT A UNIFORM SOIL THICKNESS OF ¾ INCH, PLUS OR MINUS ¼ INCH AT THE TIME OF CUTTING. MEASUREMENT FOR THICKNESS MUST EXCLUDE TOP GROWTH AND THATCH. BROKEN PADS AND TORN OR UNEVEN ENDS WILL NOT BE ACCEPTABLE.
c. STANDARD SIZE SECTIONS OF SOD MUST BE STRONG ENOUGH TO SUPPORT THEIR OWN WEIGHT AND RETAIN THEIR SIZE AND SHAPE WHEN SUSPENDED VERTICALLY WITH A FIRM GRASP ON THE UPPER 10 PERCENT OF THE SECTION.
d. SOD MUST NOT BE HARVESTED OR TRANSPLANTED WHEN MOISTURE CONTENT (EXCESSIVELY DRY OR WET) MAY ADVERSELY AFFECT ITS SURVIVAL.
e. SOD MUST BE HARVESTED, DELIVERED, AND INSTALLED WITHIN A PERIOD OF 36 HOURS. SOD NOT TRANSPLANTED WITHIN THIS PERIOD MUST BE APPROVED BY AN AGRONOMIST OR SOIL SCIENTIST PRIOR TO ITS INSTALLATION.

2. SOD INSTALLATION
a. DURING PERIODS OF EXCESSIVELY HIGH TEMPERATURE OR IN AREAS HAVING DRY SUBSOIL, LIGHTLY IRRIGATE THE SUBSOIL IMMEDIATELY PRIOR TO LAYING THE SOD.
b. LAY THE FIRST ROW OF SOD IN A STRAIGHT LINE WITH SUBSEQUENT ROWS PLACED PARALLEL TO IT AND TIGHTLY WEDGED AGAINST EACH OTHER. STAGGER LATERAL JOINTS TO PROMOTE MORE UNIFORM GROWTH AND STRENGTH. ENSURE THAT SOD IS NOT STRETCHED OR OVERLAPPED AND THAT ALL JOINTS ARE BUTTED TIGHT IN ORDER TO PREVENT VOIDS WHICH WOULD CAUSE AIR DRYING OF THE ROOTS.

UNDERLYING SOIL SURFACE
c. WATER THE SOD IMMEDIATELY FOLLOWING ROLLING AND TAMPING UNTIL THE UNDERSIDE OF THE NEW SOD PAD AND SOIL SURFACE BELOW THE SOD ARE THOROUGHLY WET. COMPLETE THE OPERATIONS OF LAYING, TAMPING AND IRRIGATING FOR ANY PIECE OF SOD WITHIN EIGHT HOURS.
d. TOPSOIL SHOULD BE AT LEAST 4–6 INCHES OVER SUBSOIL WITH PROPER DRAINAGE TO ELIMINATE STANDING WATER.
e. TOPSOIL SHOULD BE ROLLED AND RAKED TO A SMOOTH, FIRM SURFACE FREE OF DEBRIS.

3. SOD MAINTENANCE
a. IN THE ABSENCE OF ADEQUATE RAINFALL, WATER DAILY DURING THE FIRST WEEK OR AS OFTEN AND SUFFICIENTLY AS NECESSARY TO MAINTAIN MOIST SOIL TO A DEPTH OF 4 INCHES. WATER SOD DURING THE HEAT OF THE DAY TO PREVENT WILTING.
b. AFTER THE FIRST WEEK, SOD WATERING IS REQUIRED AS NECESSARY TO MAINTAIN ADEQUATE MOISTURE CONTENT.
c. DO NOT MOW UNTIL THE SOD IS FIRMLY ROOTED. NO MORE THAN ⅓ OF THE GRASS LEAF MUST BE REMOVED BY THE INITIAL CUTTING OR SUBSEQUENT CUTTINGS. MAINTAIN A GRASS HEIGHT OF AT LEAST 3 INCHES UNLESS OTHERWISE SPECIFIED.

7 **SOD NOTES & SPECIFICATIONS**
NOT TO SCALE

PERMANENT SEEDING SUMMARY

HARDINESS ZONE (FROM FIGURE B.3): 6-b
SEED MIXTURE (FROM TABLE B.3):

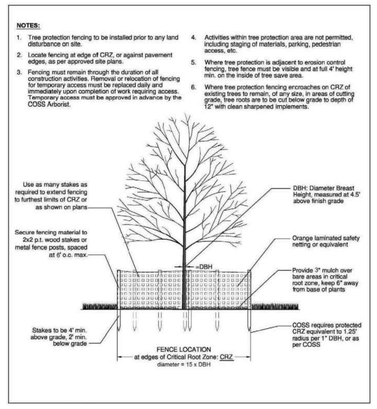
No.	SPECIES	APPLICATION RATE (LB. / AC.)	SEEDING DATES	SEEDING DEPTHS (inches)	FERTILIZER RATE (10-20-20) N	P205	K20	LIME RATE
6	TALL FESCUE (85%)	40	MAR. 1-MAY 15 AUG. 1-OCT. 15	½" - ¾"	45 lb./ac. (1.0 lb./ 1,000 sq.ft.)	90 lb./ac. (2 lb./1,000 sq.ft.)	90 lb./ac. (2 lb./1,000 sq.ft.)	2 tons/ac. (90 lb./1,000 sq.ft.)
	PERENNIAL RYEGRASS (10%)	25	MAR. 1-MAY 15 AUG. 1-OCT. 15	½" - ¾"				
	WHITE CLOVER (5%)	5	MAR. 1-MAY 15 AUG. 1-OCT. 15	½" - ¾"				

TEMPORARY SEEDING SUMMARY

HARDINESS ZONE (FROM FIGURE B.3): 6-b
SEED MIXTURE (FROM TABLE B.1):

No.	SPECIES	APPLICATION RATE (LB. / AC.)	SEEDING DATES	SEEDING DEPTHS (inches)	FERTILIZER RATE (10-20-20)	LIME RATE
	BARLEY (HORDEUM VULGARE)	96 lb/ac. 2.2 lb/1000 s.f.	MAR. 1 - MAY 15 AUG. 1 - OCT. 15	1.0	436 lb./ac. (10 lb./1,000 sq.ft.)	2 tons/ac. (90 lb./1,000 sq.ft.)

8 **PERMANENT AND TEMPORARY SEEDING NOTES**
NOT TO SCALE



9 **TREE PROTECTION DETAIL**
NOT TO SCALE

STANDARD UTILITY NOTES

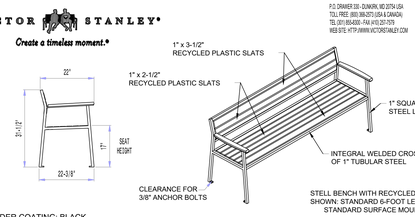
1. CONTRACTOR TO ONLY OPEN UP LENGTH OF TRENCH THAT CAN BE CONSTRUCTED AND BACKFILLED IN ONE WORKING DAY IN PAVED AREAS.
2. CONTRACTOR TO PLACE EXCAVATED MATERIALS IN A DUMP TRUCK AND HAUL TO AN APPROVED LOCATION.
3. CONTRACTOR TO BACKFILL TRENCH WITH APPROVED MATERIALS AND STABILIZE DISTURBED AREAS THE SAME WORKING DAY.
4. IN AREAS WHERE THE CONSTRUCTION TAKES TO PLACE OUTSIDE OF THE EXISTING LOC, CONTRACTOR TO INSTALL SILT FENCE ALONG THE DOWNHILL SIDE BEFORE BEGINNING CONSTRUCTION AND PLACE EXCAVATED MATERIAL FROM THE TRENCH ON THE UPHILL SIDE.
5. IF DEWATERING OF THE TRENCH IS REQUIRED, CONTRACTOR TO PUMP WATER TO A FILTER BAG TO DEWATER.
6. CONTRACTOR TO SWEEP STREETS OF ANY DEBRIS OR SEDIMENTS CAUSED BY CONSTRUCTION OPERATIONS AND DISPOSE OF AT AN APPROVED LOCATION.
7. CONTRACTOR TO STABILIZE ALL DISTURBED AREAS WITH SEED AND MULCH OR APPROPRIATE GRAVEL/ASPHALT REPAIR.

UTILITY NOTIFICATION

THE SOIL CONSERVATION DISTRICT MAKES NO REPRESENTATION AS TO THE EXISTENCE OR NONEXISTENCE OF ANY UTILITIES AT THE CONSTRUCTION SITE. SHOWN ON THESE CONSTRUCTION DRAWINGS ARE THOSE UTILITIES WHICH HAVE BEEN IDENTIFIED. IT IS THE RESPONSIBILITY OF THE LANDOWNERS OR OPERATORS AND CONTRACTORS TO ASSURE THEMSELVES THAT NO HAZARD EXISTS OR DAMAGE WILL OCCUR TO UTILITIES. THE LAW REQUIRES PRIOR TO EXCAVATION THAT MISS UTILITY BE CONTACTED AT: PHONE NO. **1-800-257-7777**

10 **STANDARD UTILITY NOTES & UTILITY NOTIFICATION**
NOT TO SCALE

VICTOR STANLEY®
Create a timeless moment.®
P.O. DRAWER 330 · DUNKIRK, MD 20754 USA
TOLL FREE: (800) 368-2573 (USA & CANADA)
TEL: (301) 855-6300 · FAX: (410) 257-7070
WEB SITE: HTTP://WWW.VICTORSTANLEY.COM



POWDER COATING: BLACK
SLAT TYPES: RECYCLED PLASTIC SLATS (NOT 2nd SITES SYSTEMS®)
COLORS: BLACK
MOUNTING: STANDARD SURFACE (AS SHOWN) AND IN-GROUND

THIS PRODUCT IS COVERED BY THE FOLLOWING US PATENT: D899,802 S.



NOTES:
1. DRAWINGS NOT TO SCALE. DO NOT SCALE DRAWINGS.
2. ALL FABRICATED METAL COMPONENTS ARE STEEL SHOTBLASTED, ETCHED, PHOSPHATIZED, PREHEATED, AND ELECTROSTATICALLY POWDER-COATED WITH T.G.I.C. POLYESTER POWDER COATINGS. PRODUCTS ARE FULLY CLEANED AND PRETREATED, PREHEATED AND COATED WHILE HOT TO FILL CREVICES AND BUILD COATING FILM. COATED PARTS ARE THEN FULLY CURED TO COATING MANUFACTURER'S SPECIFICATIONS. THE THICKNESS OF THE RESULTING FINISH AVERAGES 8-10 MILS (200-250 MICRONS).
3. IT IS NOT RECOMMENDED TO LOCATE ANCHOR BOLTS UNTIL BENCH IS IN PLACE. THIS VICTOR STANLEY, INC. PRODUCT MUST BE PERMANENTLY AFFIXED TO THE GROUND.CONSULT YOUR LOCAL CODES FOR REGULATIONS.
4. ANCHOR BOLTS NOT PROVIDED BY VICTOR STANLEY, INC.
5. FOR HIGH SALT ABUSIVE CLIMATES, HOT-DIP GALVANIZING BEFORE POWDER COATING IS AVAILABLE. HOT-DIP GALVANIZING IS PERFORMED FOR VICTOR STANLEY, INC. BY AN EXPERIENCED QUALIFIED FIRM TO WHICH PRODUCTS ARE SHIPPED FOR GALVANIZING. HOT-DIP GALVANIZING INCLUDES AN AGGRESSIVE PRE-TREATMENT AND IMMERSION IN A TANK OF CHARGED LIQUID ZINC AT OR AROUND 860°F (460°C). THE RESULTING SURFACE IS RESISTANT TO RUST BUT HAS SOME UNEVENNESS RESULTING FROM THE BONDING OF THE ZINC TO THE STEEL SURFACE. AS A RESULT, THE POWDER-COATING SURFACE FINISH OVER THAT GALVANIZED SURFACE MAY EXHIBIT BUMPS, UNEVENNESS, AND MAY NOT BE AS SMOOTH AS THE STANDARD FINISH; THIS UNEVEN AND INCONSISTENT FINISH IS NORMAL FOR GALVANIZING. CONTACT MANUFACTURER FOR DETAILS.
6. ALL SPECIFICATIONS ARE SUBJECT TO CHANGE. CONTACT MANUFACTURER FOR DETAILS.
7. THIS PRODUCT IS SHIPPED PARTIALLY UNASSEMBLED.

11 **STE-20-R STELL OF SUNNE BENCH DETAIL**
NOT TO SCALE

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

TRIAD ENGINEERING, INC.
TRIAD ENGINEERING, INC.
1075 D Sherman Ave
Hagerstown, MD | 21740
P: 301.797.6400 | F: 301.797.2424

ACE-P.A. Advanced Consulting Engineers
Advanced Consulting Engineers P.A.
Structural Engineers
5235 Westview Drive
Suite 100
Frederick, MD | 21703
P: 301.258.8884

HENRY ADAMS
Henry Adams, LLC
600 Baltimore Ave
Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date
License # , Expiration Date

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

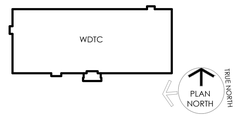
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

Maryland DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

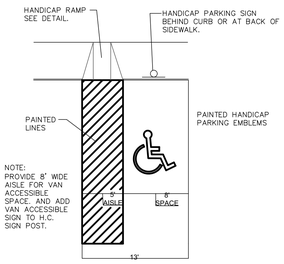
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	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
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DRAWN BY: NHA
CHK'D BY: NHA

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ISSUE DATE: **11/06/2026**
SHEET TITLE:
DETAILS & NOTES

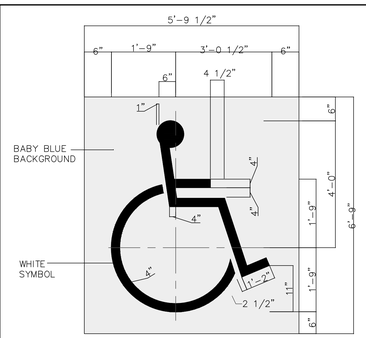
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SHEET 10 OF 172

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ALL HANDICAP PARKING SPACES SHALL BE DESIGNED, RAMPED,AND SIGNED TO MEET THE MINIMUM REQUIREMENTS OF THE MARYLAND CODE FOR THE HANDICAP.

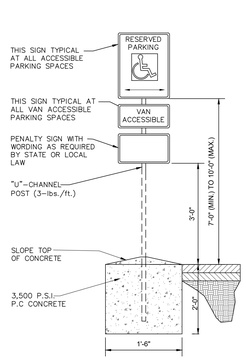
12 HANDICAP PARKING DETAIL
NOT TO SCALE



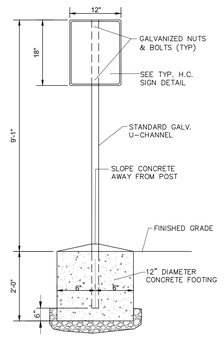
NOTES:

1. PLACE SYMBOL AT CENTERLINE OF STALL, REFER TO PARKING STRIPING DETAIL FOR DIMENSIONS.
2. THIS DETAIL PROVIDED FOR REFEERENCE ONLY! ALL DIMENSIONS, LAYOUT, BACKGROUNDS AND COLOR MUST CONFORM TO MOST CURRENT ADA GUIDELINES.

13 HANDICAP SYMBOL LAYOUT
NOT TO SCALE



14 HANDICAP ACCESSIBLE PARKING SIGN DETAIL



15 TYP. HANDICAP SIGN POST DETAIL



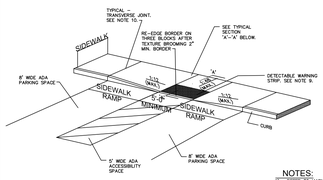
A. STANDARD MUTCD SIGN 12" X 18" (R7-8) TOTAL:

B. STANDARD MUTCD 12" X 6" SIGN TOTAL: 1

C. 12" X 16" SIGN RED TEXT AND BORDER ON WHITE BACKGROUND TOTAL:

D. STANDARD MUTCD 12" X 6" (W16-7) ARROW WITH RED SYMBOL AND BORDER ON WHITE BACKGROUND TOTAL:

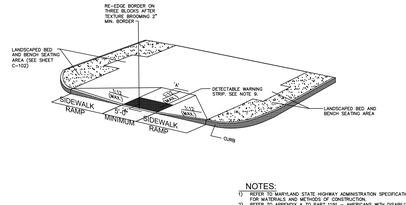
16 (IMMEDIATE) RESTRICTED PARKING SIGNS
NOT TO SCALE



PERPENDICULAR SIDEWALK RAMP FROM ADA SPACE
NOT TO SCALE

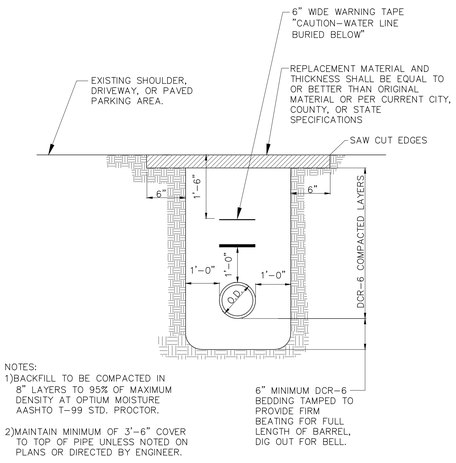
NOTES:
1) REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2) REFER TO CHAPTER 4 TO PART 1191 — AMERICANS WITH DISABILITIES ACT (A.D.A.) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (A.D.A. STANDARDS).
3) SIDEWALK RAMPS SHALL BE LOCATED AS SHOWN ON DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY REQUIRE ADJUSTMENT.
4) NO SLOPE SHALL EXCEED 12:1 ON THE RAMP.
5) RAMPS AND CURB RAMPS SHALL HAVE A MINIMUM CLEAR WIDTH OF 3'-0" EXCLUSIVE OF EDGE PROTECTION OR FLARED SIDES. (SECTIONS 4.7.3 AND 4.8.3 A.D.A. STANDARDS)
6) ALL RAMPS SHALL BE CONSTRUCTED OF PORTLAND CONCRETE RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE, EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED, AND SEALED WITH ELASTOMERIC TYPE SEALANT COMPLYING WITH FEDERAL SPECIFICATION TT-S-00227.
7) CROSS-SLOPE OF RAMP SURFACES SHALL NOT EXCEED 1:50. RAMP SURFACES SHALL COMPLY WITH TTM-50, WALKS, FLOORS AND ACCESSIBLE ROUTES OF THE A.D.A. STANDARDS FOR BUILDINGS.
8) ALL RAMPS SHALL RECEIVE A COARSE BROOM FINISH TO PROVIDE A NON-SKID SURFACE.
9) ALL H.C. RAMPS SHALL COMPLY WITH SECTION 4.7 A.D.A. STANDARDS. DETECTABLE WARNING SURFACES ARE REQUIRED AT ALL LOCATIONS WHERE THE SIDEWALK CROSSES VEHICULAR WAYS. DETECTABLE WARNING SURFACES SHALL BE INSTALLED PER MD. S.H.A. STANDARD No. 655.40, WARNING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES PER A.D.A. STANDARDS.
10) SCORE THE CONCRETE FOR THE TRANSVERSE JOINTS TO A DEPTH OF ¼ OF THE CONCRETE THICKNESS TO PROVIDE A WEAKENED PLANE.

17 A.D.A. ACCESSIBLE SIDEWALK RAMP DETAILS
NOT TO SCALE



NOTES:
1) REFER TO MARYLAND STATE HIGHWAY ADMINISTRATION SPECIFICATIONS FOR MATERIALS AND METHODS OF CONSTRUCTION.
2) REFER TO CHAPTER 4 TO PART 1191 — AMERICANS WITH DISABILITIES ACT (A.D.A.) ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES (A.D.A. STANDARDS).
3) SIDEWALK RAMPS SHALL BE LOCATED AS SHOWN ON DRAWINGS, HOWEVER EXISTING LIGHT POLES, FIRE HYDRANTS, DROP INLETS, ETC. MAY REQUIRE ADJUSTMENT.
4) NO SLOPE SHALL EXCEED 12:1 ON THE RAMP.
5) RAMPS AND CURB RAMPS SHALL HAVE A MINIMUM CLEAR WIDTH OF 3'-0" EXCLUSIVE OF EDGE PROTECTION OR FLARED SIDES. (SECTIONS 4.7.3 AND 4.8.3 A.D.A. STANDARDS)
6) ALL RAMPS SHALL BE CONSTRUCTED OF PORTLAND CONCRETE RAMP JOINS ANY RIGID PAVEMENT OR STRUCTURE, EXPANSION JOINT MATERIAL SHALL BE 1/2 INCH PREFORMED CORK, TRIMMED, AND SEALED WITH ELASTOMERIC TYPE SEALANT COMPLYING WITH FEDERAL SPECIFICATION TT-S-00227.
7) CROSS-SLOPE OF RAMP SURFACES SHALL NOT EXCEED 1:50. RAMP SURFACES SHALL COMPLY WITH TTM-50, WALKS, FLOORS AND ACCESSIBLE ROUTES OF THE A.D.A. STANDARDS FOR BUILDINGS.
8) ALL RAMPS SHALL RECEIVE A COARSE BROOM FINISH TO PROVIDE A NON-SKID SURFACE.
9) ALL H.C. RAMPS SHALL COMPLY WITH SECTION 4.7 A.D.A. STANDARDS. DETECTABLE WARNING SURFACES ARE REQUIRED AT ALL LOCATIONS WHERE THE SIDEWALK CROSSES VEHICULAR WAYS. DETECTABLE WARNING SURFACES SHALL BE INSTALLED PER MD. S.H.A. STANDARD No. 655.40, WARNING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES PER A.D.A. STANDARDS.
10) SCORE THE CONCRETE FOR THE TRANSVERSE JOINTS TO A DEPTH OF ¼ OF THE CONCRETE THICKNESS TO PROVIDE A WEAKENED PLANE.

18 ENRANCE ISLAND AND DEPRESSED CURB DETAIL
NOT TO SCALE

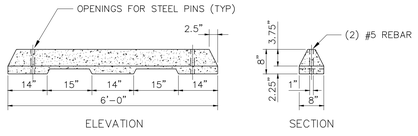


NOTES:
1)BACKFILL TO BE COMPACTED IN 8" LAYERS TO 95% OF MAXIMUM DENSITY AT OPTIUM MOISTURE AASHTO T-99 STD. PROCTOR.

2)MAINTAIN MINIMUM OF 3'-6" COVER TO TOP OF PIPE UNLESS NOTED ON PLANS OR DIRECTED BY ENGINEER.

6" MINIMUM DCR-6 BEDDING TAMPED TO PROVIDE FIRM BEATING FOR FULL LENGTH OF BARREL, DIG OUT FOR BELL.

19 TRENCH, EXCAVATION & WATERLINE BACKFILL DETAIL
NOT TO SCALE



20 PRECAST CONCRETE WHEEL STOP (8" HIGH)
NOT TO SCALE

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date
License #_____, Expiration Date

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

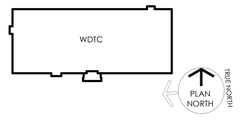
PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

Maryland
DEPARTMENT OF GENERAL SERVICES

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS & NOTES

SHEET NUMBER:

C-105

SHEET 11 OF 172

8/7/2026 9:46:59 AM Autodesk Docs://25909 Allegany College of MD ACM WTDC Renovation/25909_Allegany College_125.rvt

DIVISION 1 - GENERAL REQUIREMENTS

THE STRUCTURAL DRAWINGS INDICATE THE FINAL CONDITION/CONFIGURATION OF THE BUILDING STRUCTURE. MEANS AND METHODS USED BY THE CONTRACTOR TO ACHIEVE THE FINAL CONDITION/CONFIGURATION OF THE BUILDING STRUCTURE ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

STRUCTURAL DETAILS SHOW BASIC STRUCTURAL CONDITIONS. IT IS INTENDED THAT THESE DRAWINGS BE USED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS FROM ALL DISCIPLINES. STRUCTURAL WORK MUST BE COORDINATED WITH THE DOCUMENTS OF THE OTHER DISCIPLINES CONTAINED IN THE CONTRACT SET.

SHOP DRAWINGS FOR ALL STRUCTURAL ELEMENTS SHOWN ON THE CONTRACT DOCUMENTS SHALL BE SUBMITTED BY THE CONTRACTOR.

WHEN THE STRUCTURAL CONTRACT DOCUMENTS HAVE BEEN REPRODUCED FOR SHOP DRAWING PREPARATION THE COMPANY WHICH PREPARED THE SHOP DRAWINGS SHALL ASSUME THE SOLE RESPONSIBILITY FOR ALL STRUCTURAL INFORMATION SHOWN ON THE SHOP DRAWINGS AS IF THEY WERE PREPARED BY THAT COMPANY. THE COMPANY PREPARING THESE SHOP DRAWINGS SHALL CHECK ALL DIMENSIONS, ELEVATIONS, AND OTHER STRUCTURAL INFORMATION IN THE REPRODUCED CONTRACT DOCUMENTS.

AT THE TIME OF SHOP DRAWING SUBMISSION THE CONTRACTOR SHALL STATE IN WRITING ANY DEVIATIONS OR OMISSIONS FROM THE CONTRACT DOCUMENTS.

THE CONTRACTOR SHALL REVIEW ALL SHOP DRAWINGS BEFORE SUBMISSION AND MAKE ALL CORRECTIONS DEEMED NECESSARY.

THE CONTRACTOR SHALL ALLOW A MINIMUM OF 10 WORKING DAYS FOR STRUCTURAL REVIEW OF SHOP DRAWINGS.

LOADS GREATER THAN THE DESIGN LIVE LOADS SHALL NOT BE PLACED ON THE STRUCTURE DURING OR AFTER CONSTRUCTION.

SEE MECHANICAL OR ARCHITECTURAL DRAWINGS FOR HOLES IN SLABS NOT SHOWN.

THE TERM DELEGATED DESIGN SHALL MEAN THAT THE SELECTED BUILDING COMPONENT IS DESIGNED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JUSRISDICTION. DESIGN CALCULATIONS AND SHOP DRAWINGS FOR THE SELECTED BUILDING COMPONENTS SHALL BE SIGNED AND SEALED AND SUBMITTED FOR REVIEW. THE DELEGATED DESIGN ENGINEER SHALL SUBMIT A CERTIFICATE OF LIABILITY INSURANCE WITH THE SIGNED AND SEALED CALCULATIONS AND SHOP DRAWINGS.

CONTRACTOR SHALL HAVE ALL TEMPORARY FORMWORK, SHEETING, SHORING, AND UNDERPINNING, ETC., NECESSARY TO CONSTRUCT THE STRUCTURE DESIGNED BY A QUALIFIED REGISTERED ENGINEER REGISTERED IN THE LOCAL JURISDICTION. THE CONTRACTOR SHALL SUBMIT ONE COPY OF ALL TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC., SIGNED AND SEALED BY THE REGISTERED ENGINEER ALONG WITH A CERTIFICATE OF PROFESSIONAL LIABILITY INSURANCE FOR THE QUALIFIED REGISTERED ENGINEER. THIS SUBMISSION WILL NOT BE A SHOP DRAWING SUBMITTED FOR REVIEW. THIS SUBMISSION WILL BE FOR RECORD PURPOSES TO DEMONSTRATE THE DESIGN HAS BEEN PERFORMED BY A REGISTERED PROFESSIONAL ENGINEER.

ADVANCED CONSULTING ENGINEERS, P.A. WILL NOT BE RESPONSIBLE FOR TEMPORARY FORMWORK, SHEETING, SHORING, UNDERPINNING, ETC. NECESSARY TO INSTALL WORK CONTAINED WITHIN THESE DOCUMENTS.

ALL WORK SPECIFIED HEREIN SHALL BE INSPECTED IN ACCORDANCE WITH THE BUILDING CODE, ALL LOCAL ORDINANCES AND THE CONTRACT DOCUMENTS. ALL INSPECTION WORK MUST BE PERFORMED UNDER THE DIRECT SUPERVISION OF AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

ADVANCED CONSULTING ENGINEERS, P.A., WILL NOT PERFORM THE REQUIRED INSPECTION AS PART OF THEIR DESIGN SERVICE. ADVANCED CONSULTING ENGINEERS, P.A., MAY VISIT THE SITE TO ASCERTAIN GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS BUT, SUCH VISITS ARE NOT BE CONSTRUED AS MEETING INSPECTION REQUIREMENTS.

ALL RAILINGS, GLASS, STOREFRONT, AND EXTERIOR CEILINGS SHALL BE DESIGNED FOR LOADS INDICATED ON THE DRAWINGS AND IN THE LOCAL BUILDING CODE. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

THE CONTRACTOR SHALL SUBMIT PLANS SHOWING ALL PENETRATIONS THROUGH THE FRAMED SLABS. THE OPENINGS SHALL BE ACCURATELY LOCATED, SIZED, AND DIMENSIONED.

STEEL STAIRS AND PRECAST STAIRS SHALL BE DESIGNED FOR LOADS INDICATED ON THE DRAWINGS AND IN THE LOCAL BUILDING CODE. SHOP DRAWINGS AND CALCULATIONS FOR STAIRS SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW. THE SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

DESIGN CRITERIA:
BUILDING CODE: IBC 2021 WITH LOCAL AMENDMENTS
OCCUPANCY CATEGORY: II
SEISMIC:
IE = 1.0
SITE CLASS: D
SS = 0.101
S1 = 0.043
SDS = 0.108
SD1 =0.068
R = 3 FOR STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE
R = 2 FOR ORDINARY REINFORCED MASONRY SHEAR WALLS
SEISMIC DESIGN CATEGORY: B
SEISMIC FORCE RESISTING SYSTEM: STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE & ORDINARY REINFORCED MASONRY SHEAR WALLS
DESIGN BASE SHEAR = 27K
ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE PROCEDURE
WIND:
V = 110 MPH
EXPOSURE: B
APPLICABLE INTERNAL PRESSURE COEFFICIENTS: +/- 0.18
COMPONENTS AND CLADDING PRESSURES:
± 14.9 PSF MINIMUM – ZONE 4(OVER 1000 SQ FT TRIBUTARY AREA)
± 14.9 PSF MINIMUM – ZONE 5(OVER 1000 SQ FT TRIBUTARY AREA)
± 19.3 PSF MAXIMUM – ZONE 4(UNDER 10 SQ FT TRIBUTARY AREA)
± 23.8 PSF MAXIMUM – ZONE 5(UNDER 10 SQ FT TRIBUTARY AREA)
SNOW:
PG = 55 PSF
IS = 1.0
CE = 1.0
CT = 1.0
PF = 40.0 PSF
LIVE LOADS:
ROOF = 30 PSF (MINIMUM)
FLOORS = 100 PSF

DIVISION 2 - SITE WORK

FOOTINGS ARE DESIGNED FOR AN ASSUMED BEARING CAPACITY OF 5,000 PSF. FOOTINGS SHALL BEAR ON NATURAL UNDISTURBED SOIL, 1'-0" BELOW ORIGINAL GRADE OR ON ENGINEERED CONTROLLED FILL AS SPECIFIED BY A GEOTECHNICAL ENGINEER. BOTTOM OF EXTERIOR FOOTING SHALL BE A LOCATED AT A MINIMUM DEPTH TO MEET LOCAL JURISDICTION REQUIREMENTS FOR FROST PROTECTION. THE SOIL BEARING PRESSURE SHALL BE VERIFIED BY QUALIFIED INSPECTORS. IF BEARING CAPACITY IS FOUND TO BE LESS THAN THE CAPACITY ABOVE,THE FOOTINGS WILL HAVE TO BE REDESIGNED.

THE CONTRACTOR SHALL PROVIDE FROST PROTECTION FOR ALL FOUNDATION SUBGRADES DURING CONSTRUCTION. NO FOOTINGS SHALL BE CAST ON FROZEN SUB-GRADE MATERIAL. FROST PROTECTION SHALL BE MAINTAINED AFTER THE FOOTINGS HAVE BEEN CAST TO INSURE THAT NO BEARING MATERIAL BECOMES FROZEN PRIOR TO BACK-FILLING.

ALL FILL UNDER SLABS ON GROUND SHALL BE COARSE GRANULAR MATERIAL COMPACTED IN ACCORDANCE WITH THE GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

ALL SLABS ON GROUND SHALL BE POURED CONTINUOUSLY TO FORM RELATIVELY SQUARE AREAS NOT EXCEEDING 225 SQUARE FEET.

DO NOT BACKFILL AGAINST FOUNDATION WALLS UNTIL SUPPORTING SLABS ARE IN PLACE AND HAVE ATTAINED REQUIRED STRENGTH. IF A WALL REQUIRES BACKFILLING PRIOR TO PLACEMENT OF SUPPORTING SLAB THE CONTRACTOR SHALL HIRE A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION TO DESIGN BRACING. BRACE THE WALL UNTIL THE SLAB IS IN PLACE AND HAS ACHIEVED DESIGN STRENGTH.

DIVISION 3 - CONCRETE

SLABS ON GROUND SHALL BE 4" THICK CONCRETE REINFORCED WITH 6"X6" W1.4XW1.4 WWF OVER VAPOR BARRIER AND 4" WASHED GRAVEL UNLESS OTHERWISE NOTED. SEE SPECIFICATIONS FOR VAPOR BARRIER.

WELDED WIRE FABRIC SHALL HAVE ENDS LAPPED ONE FULL MESH AND SHALL EXTEND INTO SUPPORTING BEAMS OR WALLS EXCEPT AT SLABS ON GROUND. WWF SHALL BE CENTERED IN CONCRETE PORTION OF ALL SLABS U.N.O.

ALL SPLICES IN REINFORCING SHALL BE CLASS "B" SPLICES IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION) EXCEPT AS NOTED IN THE PLANS. BEND HORIZONTAL WALL REINFORCING 1'-0" MINIMUM AROUND ALL CORNERS OR PROVIDE 4'-0" LONG CORNER BARS TO MATCH HORIZONTAL REINFORCING.

ALL CONCRETE NOT EXPOSED TO WEATHER SHALL BE F'C = 3,000 PSI, NORMAL WEIGHT CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE ON THE PLANS.

ALL CONCRETE EXPOSED TO WEATHER SHALL BE F'C = 4500 PSI, NORMAL WEIGHT, AIR-ENTRAINED CONCRETE AT 28 DAYS UNLESS NOTED OTHERWISE ON THE PLANS.

ALL REINFORCING STEEL SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM DESIGNATION A-615 (LATEST LOCAL APPROVED EDITION),FY=60,000 PSI). ALL REINFORCING SHALL BE DETAILED, FABRICATED, AND PLACED IN ACCORDANCE WITH THE ACI'S "MANUAL OF STANDARD PRACTICE FOR DETAILING CONCRETE STRUCTURES" (ACI-315, LATEST LOCAL APPROVED EDITION).

UNLESS OTHERWISE NOTED IN STRUCTURAL DRAWINGS, PROVIDE CONCRETE PROTECTION FOR REINFORCING AS FOLLOWS:

CAST AGAINST EARTH ---------------- 3"
EXPOSED TO EARTH OR WEATHER:
NO.6 AND LARGER BARS --------- 2"
NO.5 AND SMALLER BARS -------- 1-1/2"
NOT EXPOSED TO EARTH OR WEATHER:
SLABS, WALLS, JOISTS --------- 3/4"
BEAMS, GIRDERS, COLUMNS ------ 1-1/2" TO TIES, STIRRUPS, OR SPIRALS

ALL FORMWORK SHALL BE IN ACCORDANCE WITH THE AMERICAN CONCRETE INSTITUTE "FORMWORK FOR CONCRETE", SPECIAL PUBLICATION NO.4 AND ACI'S "STANDARD RECOMMENDED PRACTICE FOR CONCRETE FORMWORK" (ACI-347, LATEST LOCAL APPROVED EDITION).

ALL CONCRETE WORK SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF THE FOLLOWING A.C.I. AND A.S.T.M. DOCUMENTS:

ACI-301 SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS
ACI-318 CODE
ACI-214 COMPRESSION TESTS
ACI-306 COLD WEATHER
ACI-315 DETAILING
ACI-347 FORMWORK
ACI-305 HOT WEATHER
ACI-211 PROPORTIONS OF CONCRETE
ACI-304 PLACING CONCRETE
ASTM-C94 READY-MIX CONCRETE

ALL FIELD AND LAB TESTING OF CONCRETE SHALL CONFORM TO THE LATEST APPROVED (BY LOCAL GOVERNMENT) EDITIONS OF ASTM:

ASTM C-31 FIELD CYLINDER SPECIMENS
ASTM C-143 SLUMP TEST
ASTM C-231 AIR CONTENT (WHEN REQUIRED)
ASTM C-39 LAB TESTING CYLINDERS
ASTM C-172 SAMPLING FRESH CONCRETE
ASTM C-42 HARDENED CORES (WHEN REQUIRED)

WHEN APPLICABLE THE CONTRACTOR SHALL HAVE AT THE SITE A FORMWORK PLAN SHOWING SIZES AND STRENGTHS OF FORMWORK, SEQUENCE OF CONSTRUCTION, AND DETAILED PLANS OF FORMWORK REMOVAL AND RESHORING. THE FORMWORK PLAN SHALL BE SIGNED AND STAMPED BY AN ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

A CONCRETE STRUCTURE MAY NOT SUPPORT ITS DESIGN LIVE LOAD FOR 28 DAYS.

CONTRACTOR MUST SUBMIT A CONCRETE DESIGN MIX IN ACCORDANCE WITH ACI-318 (LATEST LOCAL APPROVED EDITION). SUCH DESIGN MIX SHALL BE ACCOMPANIED BY THE APPROPRIATE GRAPHS AND BACKGROUND DATA. CONCRETE DESIGN MIX SHALL INDICATE 7 AND 28 DAY STRENGTHS, CEMENT CONTENT AND WATER CEMENT RATIO, FINE AND COARSE AGGREGATES AND ADMIXTURES FOR EACH DESIGN STRENGTH. THE ADDITION OF WATER AT THE PLANT OR IN THE FIELD GREATER THAN 1% MORE THAN THE SPECIFIED WATER CONTENT IS STRICTLY PROHIBITED.

DIVISION 4 – MASONRY

ALL CONCRETE MASONRY SHALL CONFORM TO THE LATEST EDITION OF ASTM SPECIFICATIONS C90 AND C145. ALL MORTAR SHALL CONFORM TO ASTM C270 AND SHALL BE TYPE "S" MINIMUM. ALL BRICK AND MASONRY CONSTRUCTION SHALL BE PROVIDED WITH STANDARD GALVANIZED "DUR-O-WAL" OR EQUAL HORIZONTAL JOINT REINFORCING AT 16" O/C UNLESS HEAVIER REINFORCING IS NOTED ON THE DRAWINGS. CALCIUM CHLORIDE AND OTHER CHLORIDES MAY NOT BE USED AS ADMIXTURES. ALL MASONRY CONSTRUCTION MUST BE PROTECTED FROM FREEZING. THE REQUIREMENTS OF THE "SPECIFICATIONS FOR MASONRY STRUCTURES" (ACI 530.1 - LATEST EDITION) SHALL BE FOLLOWED. GROUT SHALL CONFORM TO THE REQUIREMENTS OF ASTM C476 WITH A MINIMUM STRENGTH OF 2500 PSI. PRIOR TO CONSTRUCTION A MIX DESIGN OF THE GROUT SHALL BE SUBMITTED WITH COMPRESSIVE STRENGTH TESTS PERFORMED IN ACCORDANCE WITH ASTM C1019.

CONCRETE MASONRY WALLS ARE TO HAVE CONTROL JOINTS AT NO MORE THAN 20'-0" O.C. MAXIMUM. REFER TO THE ARCHITECTURAL DRAWINGS FOR LOCATIONS, U.N.O.

THE MINIMUM REQUIRED COMPRESSIVE STRENGTH (F'M AT 28 DAYS) OF BRICK MASONRY CONSTRUCTION, CONCRETE MASONRY CONSTRUCTION, AND BRICK AND CONCRETE MASONRY CONSTRUCTION IS AS FOLLOWS:

MIN. REQUIRED F'M AT 28 DAYS 2000 PSI. (MIN. CMU BLOCK COMPRESSIVE STRENGTH OF 2,800 PSI).

PROVIDE 8" MINIMUM BRICK OR 100% SOLID MASONRY BELOW ALL BEARING LINES. PROVIDE 16" MINIMUM BRICK OR 100% SOLID MASONRY BELOW ALL LINTELS AND/OR MINOR WALL BEARING BEAMS. BRICK PIERS SHALL BE FULLY BONDED INTO ADJACENT WALLS. NO BRICK AT EXPOSED CMU WALLS.

LINTEL SCHEDULE:

LINTELS OVER OPENINGS IN MASONRY PARTITIONS NOT OTHERWISE SPECIFIED SHALL BE LOOSE ANGLE LINTELS AS FOLLOWS FOR EACH 4" WIDTH:

0'-0" TO 3'-0" 3-1/2" x 3-1/2" x 3/8" ANGLE
3'-1" TO 5'-0" 4" x 3-1/2" x 3/8" ANGLE
5'-1" TO 6'-0" 5" x 3-1/2" x 3/8" ANGLE
6'-1" TO 8'-0" W8x18 + HUNG PLATE
WITH 3/8"x7"x7" BEARING PLATE EACH END

ALL ANGLES SHALL HAVE THEIR SHORT LEG HORIZONTAL AND 6" MINIMUM BEARING ON MASONRY. PROVIDE 4" MINIMUM OF BEARING IF THE ANGLE IS SUPPORTED BY A STEEL BEAM OR STEEL COLUMN. FOR 6" CMU MASONRY PARTITIONS REINFORCED CMU LINTELS MAY BE USED FOR OPENINGS UP TO 10'-0".

DIVISION 5 – METAL DECKING, STEEL JOISTS, STRUCTURAL STEEL, AND COLD-FORMED STEEL

WELD WASHERS ARE REQUIRED FOR ANY UNCOATED DECK THICKNESS OF LESS THAN .028" OR 22 GAGE.

PROVIDE G60 GALVANIZED ROOF DECK UNLESS OTHERWISE NOTED.

DO NOT SUPPORT LIGHTS, SPRINKLERS, PIPES, CEILING, ETC FROM THE METAL FLOOR DECK OR METAL ROOF DECK.

POUR STOPS, SCREED ANGLES, ETC., ARE TO BE PROVIDED AT SLAB POUR EDGES AND AS REQUIRED TO PREVENT THE CONCRETE FROM LEAKING THROUGH THE FORMS. THE EDGE OF DECK, FLOOR AND ROOF SHALL BE COORDINATED WITH THE CONTRACT DOCUMENTS BY THE CONTRACTOR.

ALL STEEL JOISTS SHALL CONFORM TO THE SJI STANDARD SPECIFICATION IN ALL RESPECTS, WITH THE FOLLOWING EXCEPTIONS, AND SHALL HAVE BRIDGING IN ACCORDANCE WITH THE SJI SPECIFICATION EXCEPT AS NOTED. CONTRACTOR SHALL COORDINATE ALL SJI BRIDGING LOCATIONS WITH MECHANICAL EQUIPMENT, DUCTS, LIGHTING, ETC. JOISTS SHALL BE WELDED TO STEEL SUPPORTS EXCEPT AT COLUMNS WHERE THEY SHALL BE BOLTED. MINIMUM BEARING SHALL BE 2-1/2" ON STEEL BEAMS AND 5" ON CONCRETE AND MASONRY FOR K SERIES JOISTS. MINIMUM BEARING SHALL BE 4" ON STEEL AND 7" ON CONCRETE AND MASONRY FOR LH SERIES AND DLH SERIES JOISTS. BEARING PLATES WITH ANCHORS SHALL BE PROVIDED AT ALL JOISTS BEARING ON CONCRETE AND MASONRY (WELD OR BOLT JOIST TO THE PLATE). ALL FIELD MODIFICATIONS OF THE STEEL JOISTS SHALL BE PERFORMED IN ACCORDANCE WITH DETAILS PROVIDED BY THE STEEL JOIST FABRICATOR'S ENGINEER. COORDINATE THE JOIST LAYOUT WITH MECHANICAL, ELECTRICAL, PLUMBING, WALLS AND OTHER ITEMS. IN ADDITION TO THE CONCENTRATED LOADS INDICATED ON THE DRAWINGS, TYPICALLY PLUMBING, LIGHTS, PIPING, CEILING, SPRINKLERS, MECHANICAL DUCTWORK, FANS, BULKHEADS, ETC., ARE SUPPORTED AS CONCENTRATED LOADS ON THE JOISTS. THE SUPPORTS FOR THESE LOADS ARE TO OCCUR AT TOP CHORD OR BOTTOM CHORD PANEL POINTS ONLY AND THE CONTRACTOR IS TO COORDINATE THESE POINTS OF SUPPORT WITH THE JOIST SUPPLIER. THE MAXIMUM CONCENTRATED LOAD IS NOT TO EXCEED 500 POUNDS ON A JOIST. JOIST FABRICATOR IS TO ENSURE THAT THE JOISTS ARE CAPABLE OF SUPPORTING THESE CONCENTRATED LOADS.

NO MECHANICAL EQUIPMENT SHALL BE PLACED ON JOISTS WITHOUT APPROVAL OF THE JOIST MANUFACTURER. EQUIPMENT, LIGHTS, SPRINKLERS, PIPES, CEILING, ETC., SHALL BE SUPPORTED ONLY FROM THE TOP OR BOTTOM CHORD PANEL POINT OF THE JOIST.

ALL STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION A36, A992, A500, OR A53 (CODE APPLICABLE EDITION), FOR WHICH MILL TEST REPORTS SHALL BE SUBMITTED TO THE ARCHITECT. ALL STEEL SHALL BE DETAILED, FABRICATED, AND ERECTED IN ACCORDANCE WITH THE AISC MANUAL, AISC SPECIFICATION AND AISC CODE OF STANDARD PRACTICE. ALL CONNECTIONS SHALL DEVELOP THE FULL STRENGTH OF THE BEAM. IN GENERAL, FIELD CONNECTIONS SHALL BE MADE WITH 3/4" A-325 HIGH TENSILE BOLTS AND WASHERS UNLESS OTHERWISE NOTED, BOLTS SHALL BE SNUG TIGHT, AND SHOP CONNECTIONS SHALL BE WELDED. ALL STEEL SHALL BE FABRICATED WITH NATURAL CAMBER UP.

ALL STRUCTURAL STEEL GRADES ARE AS FOLLOWS UNLESS NOTED OTHERWISE:

WIDE-FLANGE SHAPES	FY=50 KSI	ASTM A992
ANGLES, CHANNELS & PLATES	FY=36 KSI	ASTM A36
TUBES, COLD FORMED	FY=46 KSI	ASTM A500 GRADE B
PIPES, HOT FORMED	FY=35 KSI	ASTM A53 GRADE B

ALL WELDING AND WELD INSPECTION SHALL BE IN ACCORDANCE WITH THE "STRUCTURAL WELDING CODE - STEEL", AWS D1.1 (LATEST LOCAL APPROVED) OF THE AMERICAN WELDING SOCIETY. THESE WELDS SHALL BE MADE ONLY BY OPERATORS QUALIFIED BY PRESCRIBED TESTS IN THE "STRUCTURAL WELDING CODE IN BUILDING CONSTRUCTION" OF THE AMERICAN WELDING SOCIETY. ACCEPTANCE OF THE WELDS TO BE SUBJECT TO THE INSPECTION AND REVIEW OF AN AWS QUALIFIED INSPECTOR.

CONNECTIONS DETAILED BY THE FABRICATOR SHALL MEET THE FOLLOWING REQUIREMENTS:

A. ALL CONNECTIONS SHALL BE DESIGNED BY A PROFESSIONAL ENGINEER IN THE LOCAL JURISDICTION. THE DESIGN OF THE STEEL CONNECTIONS IS CONSIDERED DELEGATED DESIGN. SUBMIT SIGNED AND SEALED CALCULATIONS AND SIGNED AND SEALED STEEL SHOP DRAWINGS.

B. CONNECTIONS MAY BE DESIGNED AND DETAILED IN ACCORDANCE WITH PART 10 OF THE AISC MANUAL – 14^{TH} EDITION.

C. WHERE BEARING TYPE CONNECTIONS ARE SPECIFIED, SHEAR VALUES FOR THREADS INCLUDED IN THE SHEAR PLANE SHALL BE USED, EXCEPT AS FOLLOWS: SPECIAL CONNECTIONS FOR REACTIONS EXCEEDING 45 KIPS MAY BE DESIGNED AND DETAILED USING LARGE DIAMETER BOLTS AND/OR HIGHER STRENGTH BOLTS AND/OR BOLT STRENGTHS FOR THREADS EXCLUDED FROM THE SHEAR PLANE.

D. BOLTS IN MOMENT RESISTING CONNECTIONS SHALL BE SLIP CRITICAL TYPE.

E. BEAMS FRAMING INTO THE WEAK AXIS OF THE COLUMN SHALL FRAME DIRECTLY INTO THE WEB OF THE COLUMN WHENEVER POSSIBLE.

ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH A RUST INHIBITIVE PRIMER (RED OXIDE). IT WILL NOT BE NECESSARY TO MASK OUT AREAS FOR WELDING. IT WILL BE NECESSARY TO MASK OUT AREAS FOR FRICTION TYPE BOLTED CONNECTIONS.

STRUCTURAL COLD FORMED METAL FRAMING SHALL BE DEFINED AS ANY COLD FORMED METAL FRAMING THAT SUPPORTS VERTICAL ROOF OR FLOOR LOADS, PROVIDES BACKUP FOR THE EXTERIOR SKIN OF THE STRUCTURE AND RESISTS WIND LOAD, OR ACTS AS A SHEARWALL FOR THE STRUCTURE.

STRUCTURAL COLD FORMED METAL FRAMING SHOWN ON STRUCTURAL PLANS IS TO BE USED AS A GUIDELINE BY THE COLD FORMED STEEL CONTRACTOR. THE MINIMUM GAGE FOR COLD FORMED STEEL METAL FRAMING SHALL BE 18 GAGE.

COLD FORMED STEEL FRAMING DESIGN, SHOP DRAWINGS, AND CALCULATIONS SHALL BE DEVELOPED FOR ALL STRUCTURAL COLD FORMED STEEL. DESIGN AND DETAILING OF THE COLD FORMED STEEL MEMBERS AND SHOP DRAWINGS IS CONSIDERED DELEGATED DESIGN. SHOP DRAWINGS AND CALCULATIONS SHALL BE SIGNED AND STAMPED BY A REGISTERED PROFESSIONAL ENGINEER REGISTERED IN THE LOCAL JURISDICTION.

DESIGN, FABRICATION AND ERECTION OF ALL MEMBERS SHALL CONFORM TO THE FOLLOWING STANDARD SPECIFICATIONS, LATEST EDITION, AS ADOPTED BY THE AMERICAN IRON AND STEEL INSTITUTE, "LIGHTGAGE COLD-FORMED STEEL DESIGN MANUAL".

FOR ALL COLD FORMED STRUCTURAL MEMBERS DESIGNATED 18 GAGE, FY=33KSI. FOR ALL COLD FORMED STRUCTURAL MEMBERS DESIGNATED 16-12 GAGE, FY=50KSI TYPICAL UNLESS NOTED OTHERWISE.

ALL STRUCTURAL COLD FORMED METAL FRAMING SHALL BE GALVANIZED UNLESS NOTED OTHERWISE ON THE DRAWINGS.

Submittal Type	Signed and Sealed by Registered Professional Engineer*	Review and Return	Review and Retained for Record
Shop Drawings			
Structural Steel Shop Drawing		X	
Shear Stud Layout		N/A	
Steel Joist Shop Drawing		X	
Steel Stair and Railing Shop Drawing (Delegated Design)	X	X	
Metal Deck Shop Drawing		X	
Architectural Precast Shop Drawing (Delegated Design)	N/A	N/A	
Structural Precast Shop Drawing (Delegated Design)	N/A	N/A	
Reinforcing Steel Shop Drawing		X	
Cold Formed Steel Shop Drawing used for load bearing members or to support exterior cladding (Delegated Design)	X	X	
Pre-engineered Wood Truss Layout and Shop Drawings (Delegated Design)	N/A	N/A	
Pre-engineered Cold Formed Steel Truss Layout and Shop Drawings (Delegated Design)	N/A	N/A	
Concrete Mix Designs		X	
Formwork Shop Drawing (Delegated Design)	X		X
Sheeting Shop Drawing (Delegated Design)	X		X
Shoring Shop Drawing (Delegated Design)	X		X
Mechanical, Electrical, Plumbing & Miscellaneous Penetration Layouts in Slabs, Beams, Walls, etc. (Horizontal and Vertical)		X	
Concrete Masonry Reinforcing Shop Drawing		X	
Concrete Masonry Mix and Grout Design		X	
Glass Storefront / Curtainwall System Shop Drawing (Delegated Design)	X	X	
Anchor Bolt / Embed Layout		X	
Product Certifications			
Structural Steel Mill Test Reports			X
Reinforcing Bar Mill Test Reports			X
Welder Certifications (Fabricator)			X
Welder Certifications (Erector)			X
High Strength Bolts			X
Fabricator Qualification Data			X
Erector Qualification Data			X
Aggregate Mill Test Report			X
Cement Mill Certificate			X
Design Calculations			
Structural Steel Connection Calculations	X	X	
Steel Stair & Connection Calculations	X	X	
Glass Storefront / Curtainwall System Calculations	X	X	
Miscellaneous Steel Calculations	X	X	
Architectural Precast Calculations (Delegated Design)	N/A	N/A	
Structural Precast Calculations (Delegated Design)	N/A	N/A	
Cold Formed Steel Calculations used for load bearing members or to support exterior cladding (Delegated Design)	X	X	
Pre-engineered Wood Truss Calculations (Delegated Design)	N/A	N/A	
Pre-engineered Cold Formed Steel Truss Calculations (Delegated Design)	N/A	N/A	
Formwork (Delegated Design)	X		X
Sheeting (Delegated Design)	X		X
Shoring (Delegated Design)	X		X

* Registered Professional Engineer must be licensed in the local jurisdiction that the project is being constructed. The registered professional engineer must submit a certificate of proof of liability insurance with the shop drawing / calculation submittal.
Note: Additional submittals may be required per the project specifications.
Delegated Design means that the submittal requires a seal of a registered professional engineer registered in the local jurisdiction. The registered professional engineer must submit a certificate of proof of professional liability insurance with the shop drawing/calculation submittal.
Review and Return means that the submittal will be reviewed and returned to the appropriate party.
Review and Retained for Record means that the submittal is for record purposes to confirm that the item has been designed and signed and sealed by a registered professional engineer licensed in the local jurisdiction.

ABBREVIATION & SYMBOLS LEGEND

Ø	DIAMETER	LLH	LONG LEG HORIZONTAL
AHU	AIR HANDLING UNIT	LLV	LONG LEG VERTICAL
ARCH.	ARCHITECTURAL	MAX.	MAXIMUM
B.O.S.	BOTTOM OF STEEL	MECH.	MECHANICAL
BOTT	BOTTOM	MIN.	MINIMUM
BP	BEARING PLATE, BASE PLATE	N.W.	NORMAL WEIGHT (CONCRETE)
CFS	COLD FORMED STEEL	o.c.	ON CENTER
C.J.	CONTRACTION JOINT	PCF	POUNDS PER CUBIC FOOT
CL	CENTERLINE	PL.	PLATE
CONC	CONCRETE	PLF	POUNDS PER LINEAL FOOT
CONT.	CONTINUOUS	PSF	POUNDS PER SQUARE FOOT
CMU	CONCRETE MASONRY UNIT	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	PT	PRESSURE TREATED
DN	DOWN	REINF	REINFORCED, REINFORCEMENT
E.F.	EACH FACE	REQ'D	REQUIRED
E.J.	EXPANSION JOINT	RTU	ROOF TOP UNIT
EL.	ELEVATION	SCJ	SLAB CONTRACTION JOINT
ELEV.	ELEVATION	SIM	SIMILAR
E.O.S.	EDGE OF SLAB	S.O.G.	SLAB ON GRADE
EQ.	EQUAL	T.O.S.	TOP OF STEEL
E.W.	EACH WAY	TYP.	TYPICAL
EX.	EXISTING	U.N.O.	UNLESS NOTED OTHERWISE
FT.	FOOT	VERT	VERTICAL
FTG	FOOTING	V.I.F.	VERIFY IN FIELD
GA	GAGE	w/	WITH
HORIZ	HORIZONTAL	HBE	HEADER BY CFS ENGINEER
IN.	INCH		
KSF	KIPS PER SQUARE FOOT		
KSI	KIPS PER SQUARE INCH		
LLH	LONG LEG HORIZONTAL		

EL ELEVATOR BY ELEVATOR CONTRACTOR
ST STAIR BY STAIR CONTRACTOR
OP OPEN TO BELOW
SO SLAB OPENING

PROJECT TEAM

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Signature_______________________ Date ____________
License # ______________, Expiration Date ____/____/_______

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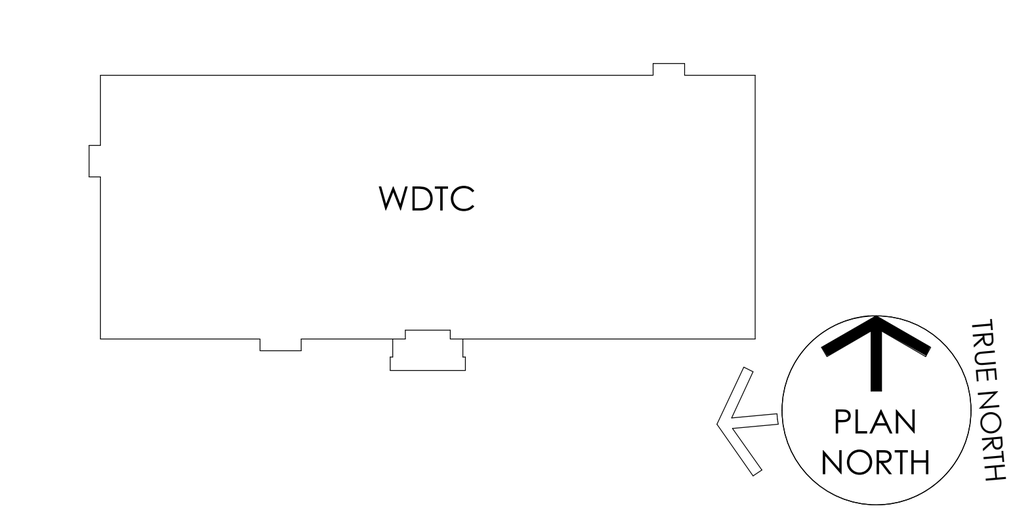
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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DRAWN BY: NHA
CHK'D BY: NHA

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GENERAL NOTES

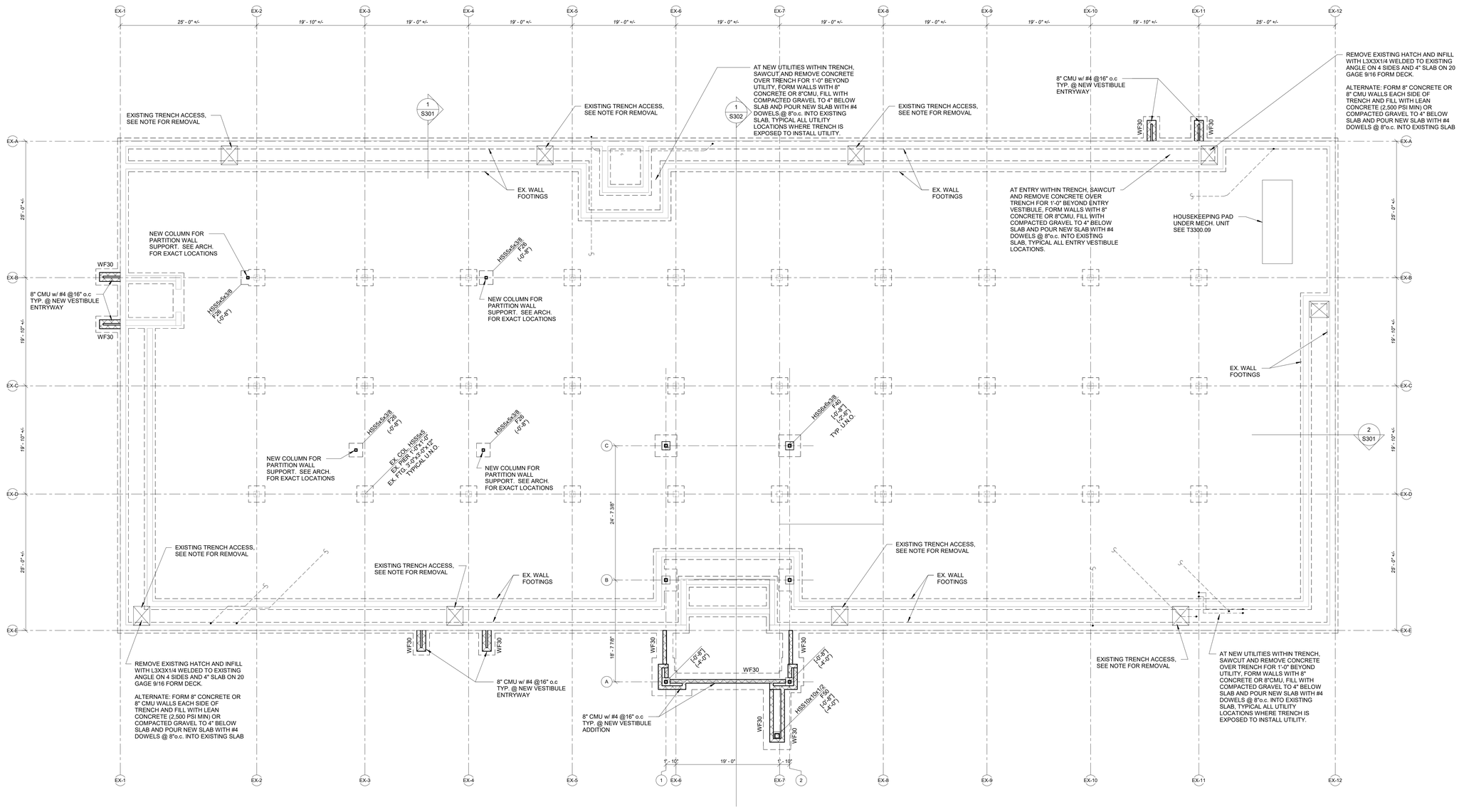
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1 FOUNDATION PLAN

1/8" = 1'-0"

SOG NOTES

1. SLAB ON GRADE AT NEW AREAS SHALL BE " NORMAL WEIGHT CONCRETE (F'C=3000 PSI, 145 PCF) WITH 6"X6"xW1.4XW1.4 WELDED WIRE FABRIC OVER 6 MIL POLYETHYLENE VAPOR BARRIER OVER 4" OF COMPACTED WASHED GRAVEL.

2. TOP OF SLAB ELEVATION +0'-0" UNLESS NOTED OTHERWISE.

3. [-0'-0"] DENOTES TOP OF PIER ELEVATION MEASURED FROM TOP OF SLAB ON GRADE ELEVATION +0'-0".

4. (-0'-0") DENOTES TOP OF FOOTING ELEVATION MEASURED FROM TOP OF SLAB ON GRADE ELEVATION +0'-0". FOOTING ELEVATIONS ARE FOR BIDDING PURPOSES ONLY AND MAY HAVE TO BE ADJUSTED BASED ON FIELD CONDITIONS ENCOUNTERED DURING EXCAVATION.

5. ALL FOOTINGS SHALL BE LOWERED TO BEAR BELOW ANY UTILITIES. SEE TYPICAL DETAILS.

6. ALL SUBGRADE PREPARATION FOR THE SLAB ON GRADE, FOOTINGS, INSTALLATION OF CONTROLLED FILL, ETC SHALL BE IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

7. REFER TO THE ARCHITECTURAL, MECHANICAL, PLUMBING, ELECTRICAL, CIVIL DRAWINGS FOR BELOW GRADE UTILITIES,BELOW GRADE CONDUITS, SLAB DEPRESSIONS, ETC.

FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F26	2'-6"x2'-6"x12"	(4) #4 E.W. BOTTOM
F40	4'-0"x4'-0"x12"	(5) #5 E.W. TOP & BOTTOM
F50	5'-0"x5'-0"x12"	(6) #5 E.W. TOP & BOTTOM
WF30	3'-0" WIDE x 12" THICK	(4)#4 CONT. & #4@12" o.c. TRANSVERSE.

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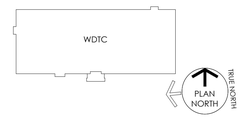
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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FOUNDATION PLAN

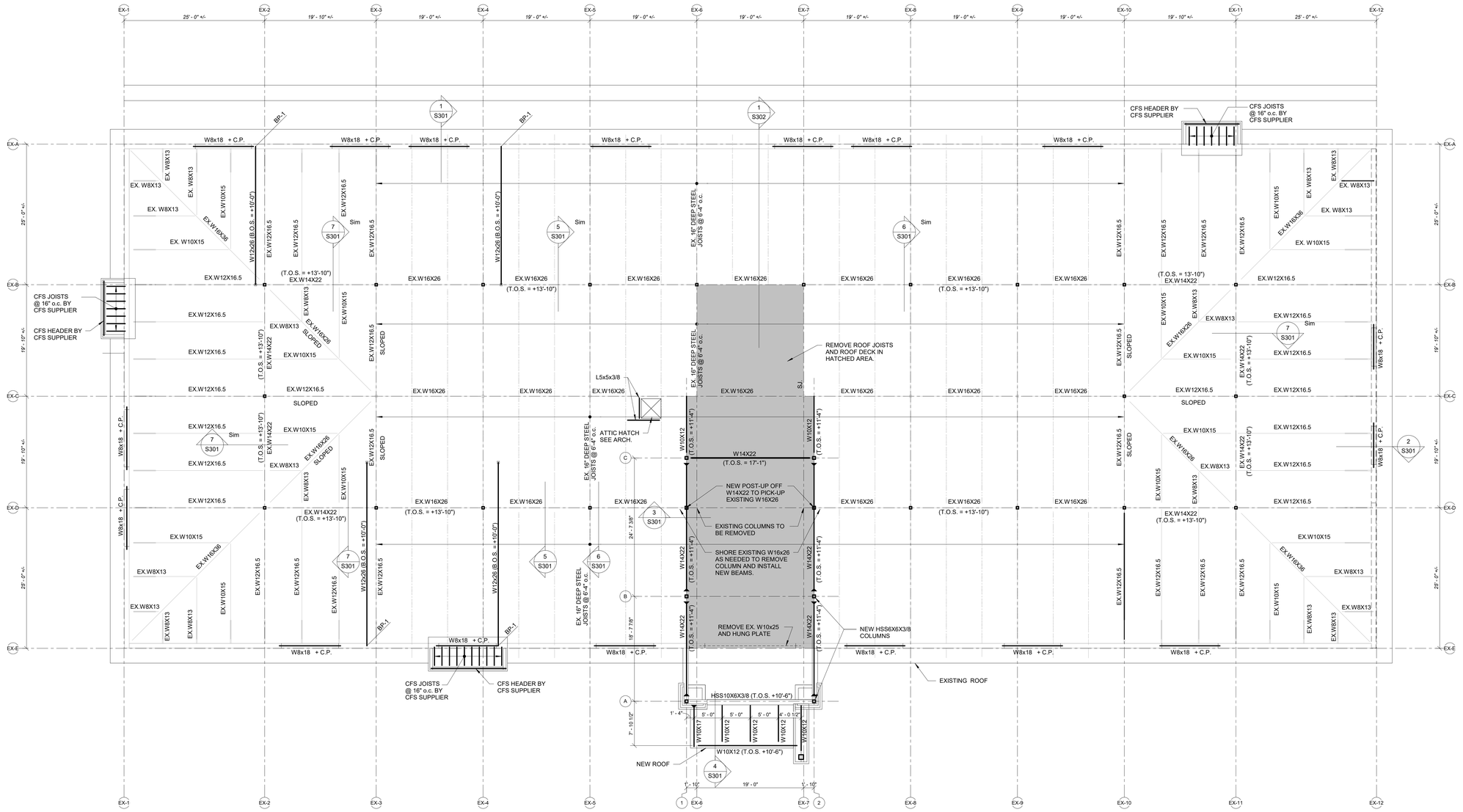
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1 LOWER ROOF FRAMING PLAN

1/8" = 1'-0"

LOW ROOF FRAMING NOTES:

1. ROOF SYSTEM SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS ON 1.5"-20 GAGE TYPE "B" GALVANIZED METAL ROOF DECK BY VULCRAFT OR EQUIVALENT (3 SPAN MINIMUM). ATTACH ROOF DECK TO STEEL SUPPORTS USING A 36/7 PATTERN.

2. TOP OF STEEL IS MEASURED FROM TOP OF FLOOR SLAB BELOW AND IS INDICATED THUS (+0'-0").

3. " ► " DENOTES FULL MOMENT CONNECTION.

4. XXK DENOTES UNFACTORED BEAM REACTION. BEAM WITHOUT REACTIONS SHOWN SHALL BE DESIGNED FOR A MIN. OF 10 KIPS.

5. COORDINATE OPENINGS THROUGH THE ROOF WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. FRAME ALL OPENINGS THROUGH THE ROOF DECK, GREATER THAN 6", AND ROOF DRAINS WITH 5"X5"X3/8" ANGLES) ON ALL SIDES.

PROJECT TEAM

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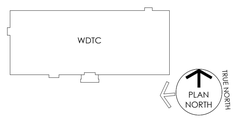
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PROJECT OWNER

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LOWER ROOF FRAMING PLAN

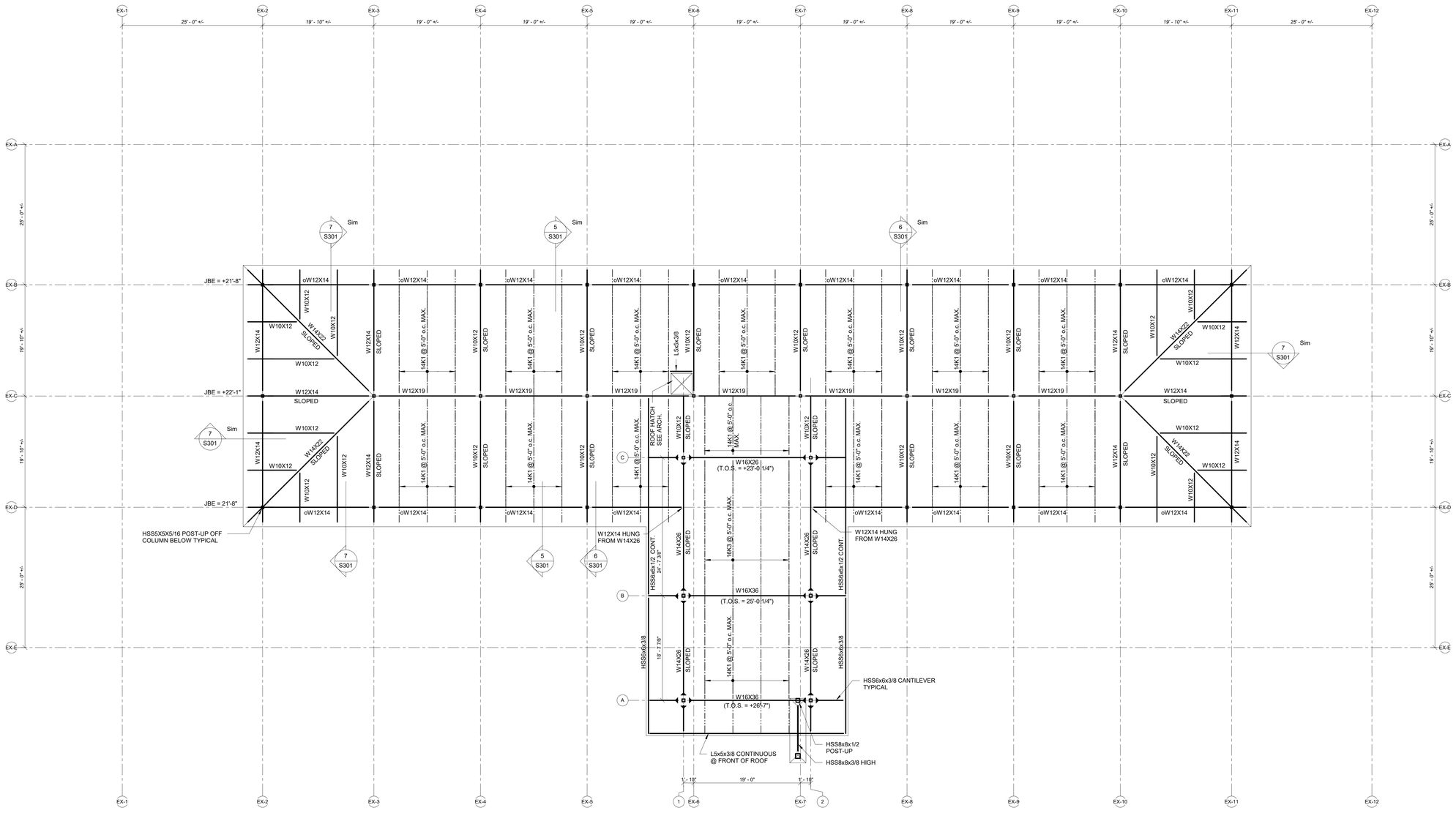
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1 UPPER ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF NOTES:

1. ROOF SYSTEM SHALL BE AS INDICATED ON THE ARCHITECTURAL DRAWINGS ON 1.5"-20 GAGE TYPE "B" GALVANIZED METAL ROOF DECK BY VULCRAFT OR EQUIVALENT (3 SPAN MINIMUM). ATTACH ROOF DECK TO STEEL SUPPORTS USING A 36/7 PATTERN.

2. TOP OF STEEL IS MEASURED FROM TOP OF FLOOR SLAB BELOW AND IS INDICATED THUS (+0'-0").

3. " ▶ " DENOTES FULL MOMENT CONNECTION.

4. XXK DENOTES UNFACTORED BEAM REACTION. BEAM WITHOUT REACTIONS SHOWN SHALL BE DESIGNED FOR A MIN. OF 10 KIPS.

5. COORDINATE OPENINGS THROUGH THE ROOF WITH THE ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS. FRAME ALL OPENINGS THROUGH THE ROOF DECK, GREATER THAN 6", AND ROOF DRAINS WITH 5"X5"X3/8" ANGLES) ON ALL SIDES.

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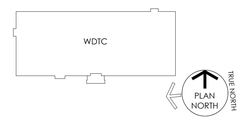
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UPPER ROOF FRAMING PLAN

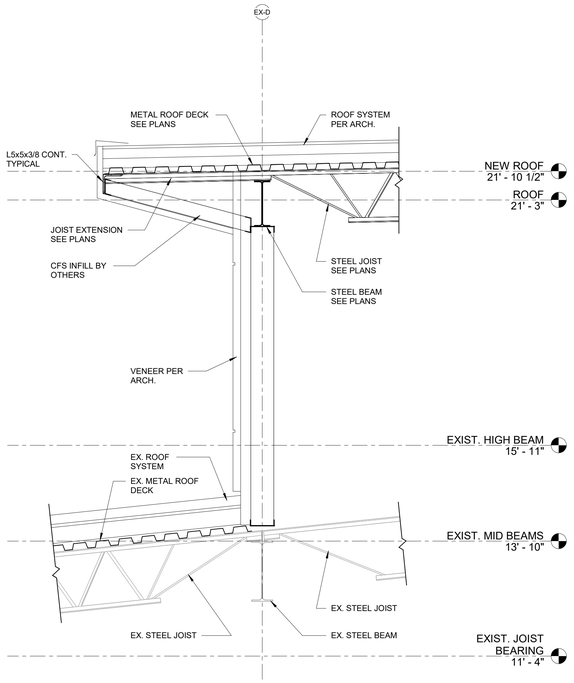
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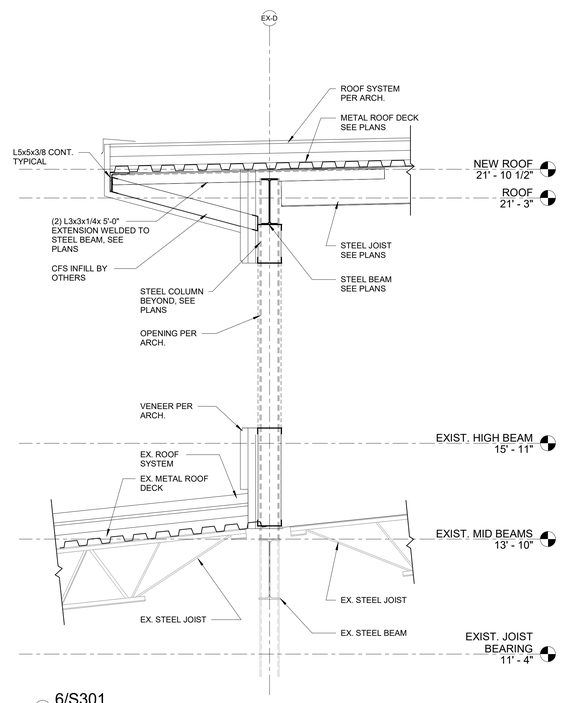
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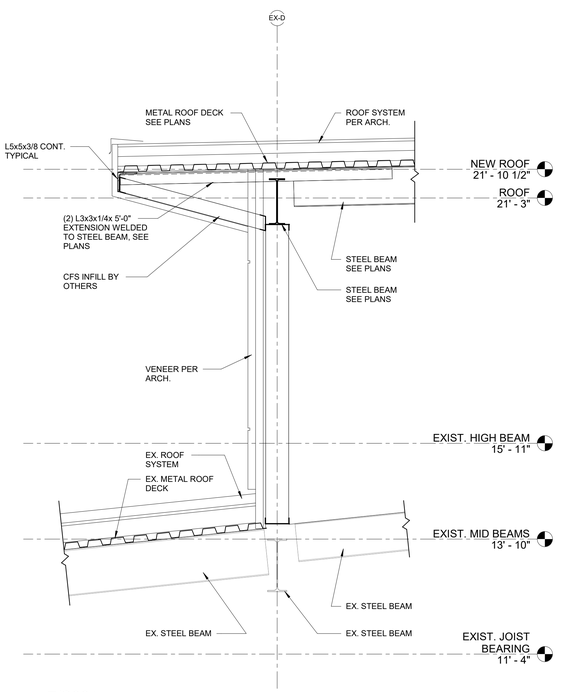
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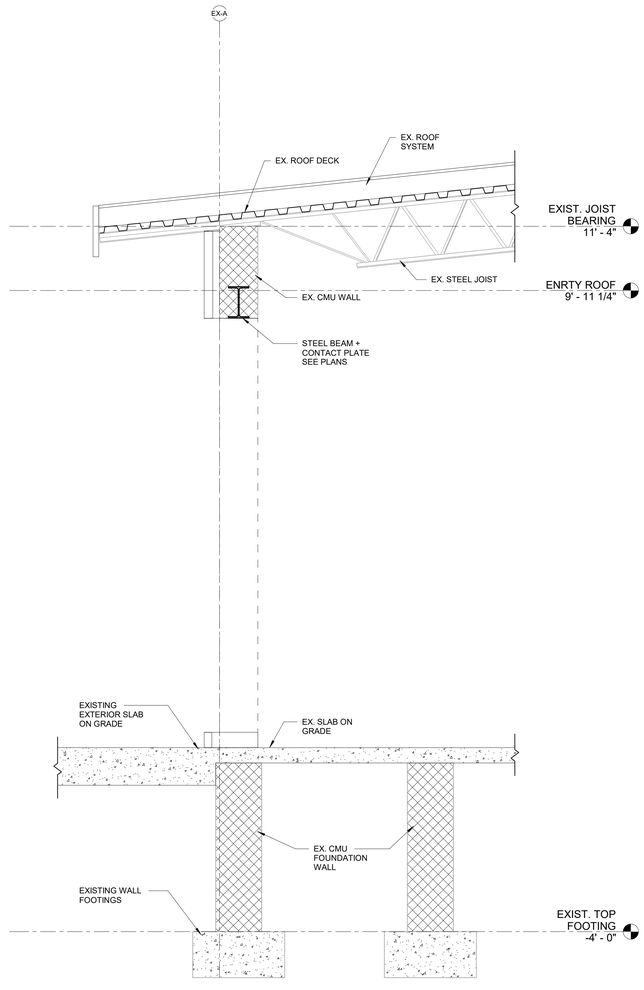
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3/4" = 1'-0"



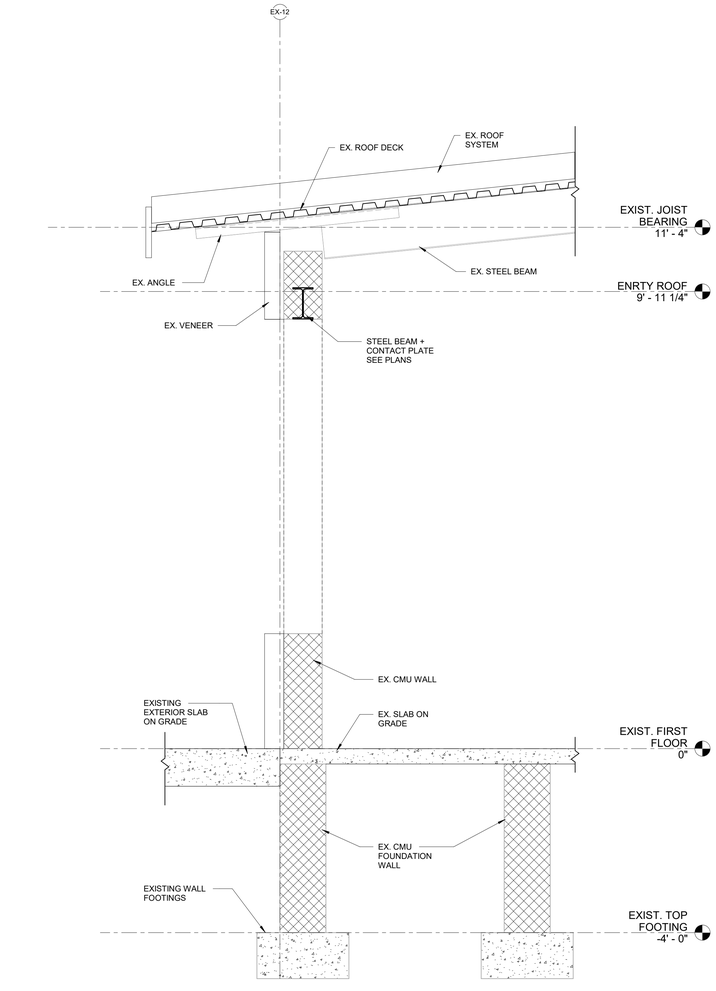
6 6/S301
3/4" = 1'-0"



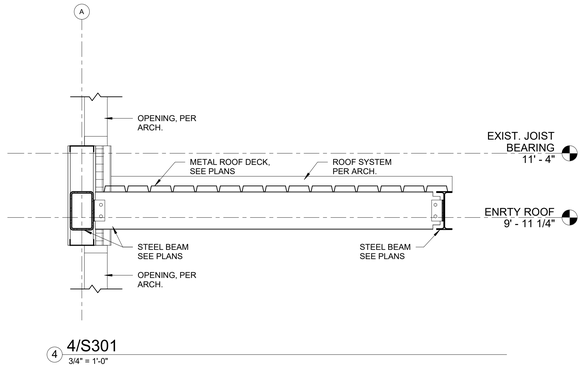
7 7/S301
3/4" = 1'-0"



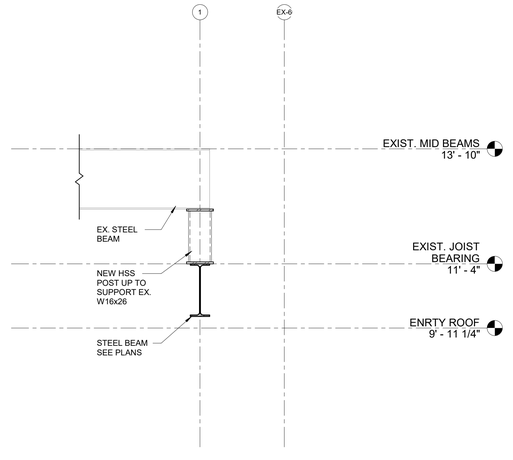
1 1/S301
3/4" = 1'-0"



2 2/S301
3/4" = 1'-0"



4 4/S301
3/4" = 1'-0"



3 3/S301
3/4" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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Structural Engineers
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Wright Engineering, LLC
Data / Communications
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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

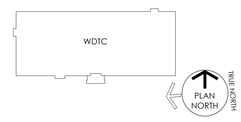
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
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6	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

SECTIONS

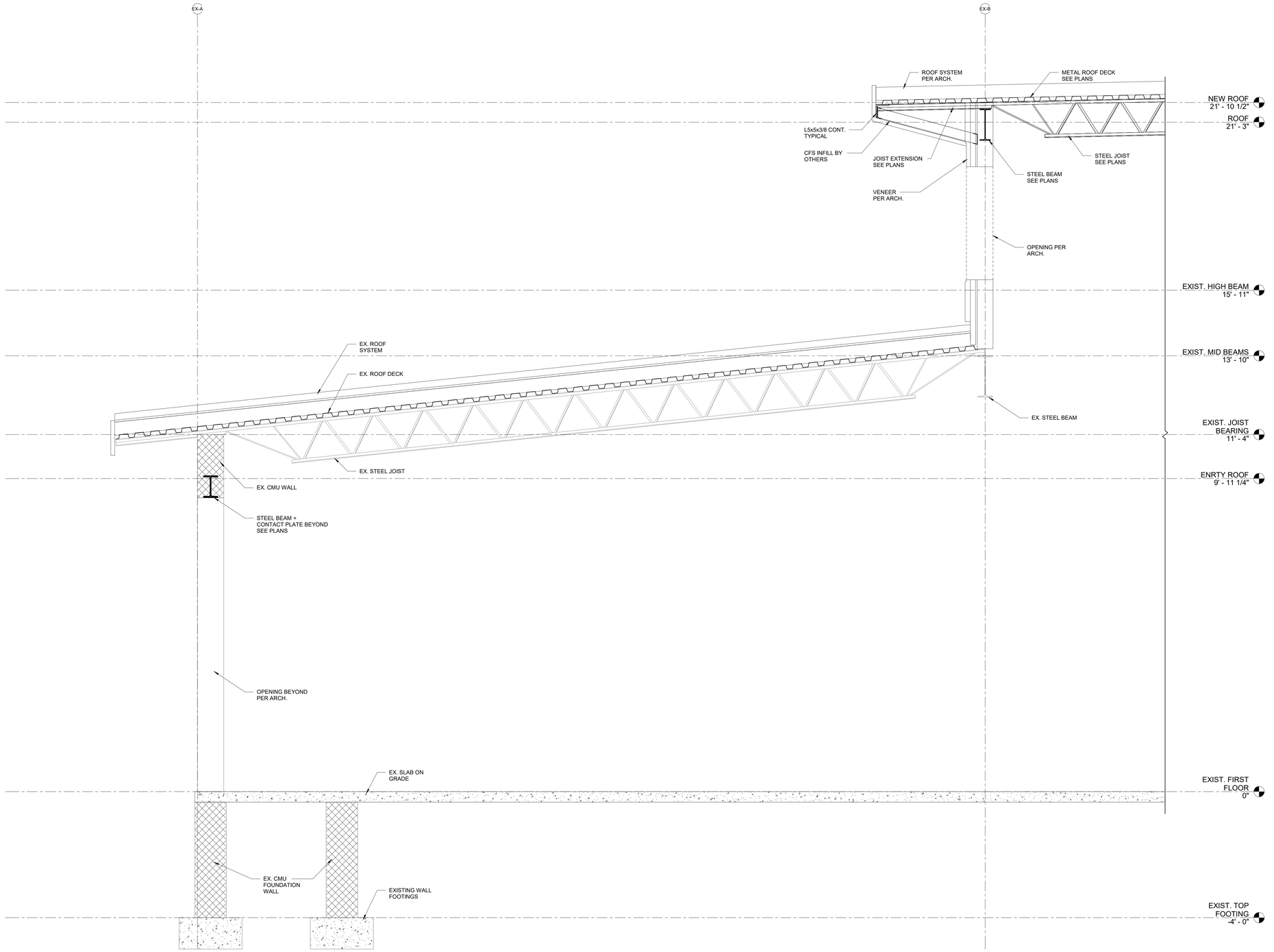
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S301

SHEET 16 OF 172

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1 1/S302
3/4" = 1'-0"

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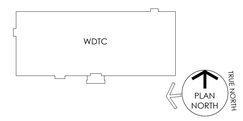
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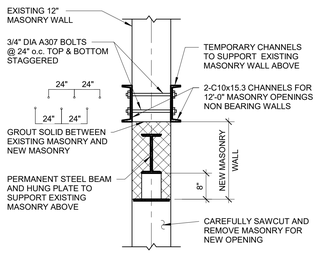
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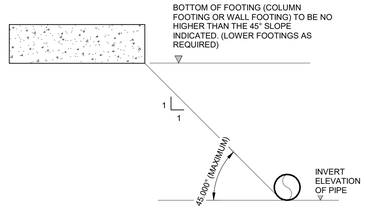
SHEET 17 OF 172

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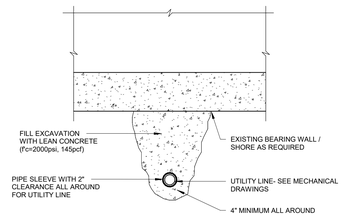
TEMPORARY SUPPORT OF EXISTING WITH CHANNELS FOR NEW OPENING

T2150.03 N.T.S. **T2150.03**



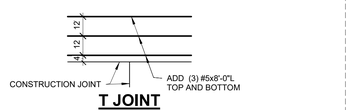
TYPICAL PIPE INVERT AND FOOTING RELATIONSHIP

T2384.01 N.T.S. **T2384.01**

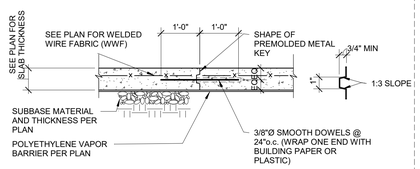


TYPICAL UTILITY LINE BELOW EXISTING FOUNDATION

T2384.02 N.T.S. **T2384.02**



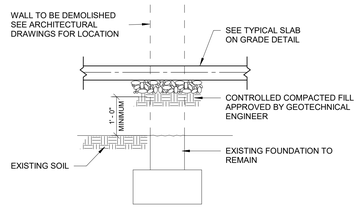
T JOINT



NOTES:
1. PROVIDE CONSTRUCTION JOINTS AT COLUMNS:
   A. ADD INTERMEDIATE JOINTS IF AREA EXCEEDS 600sqft
   -OR-
   B. INTERMEDIATE JOINTS MAY BE SAWCUT- SEE "TYPICAL CONTROL JOINT – SAWCUT"
2. IF "T-JOINT" OCCURS, ADD BARS AS INDICATED ABOVE
3. PANELS TO BE AS SQUARE AS POSSIBLE 1.0L, 1.5L MAX

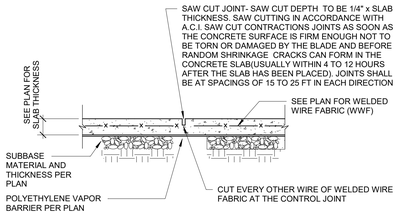
TYPICAL CONSTRUCTION JOINT - PREMOLDED METAL KEY

T3300.01 N.T.S. **T3300.01**



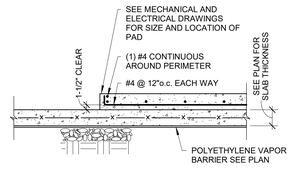
TYPICAL FOUNDATION TO REMAIN

T3300.02 N.T.S. **T3300.02**



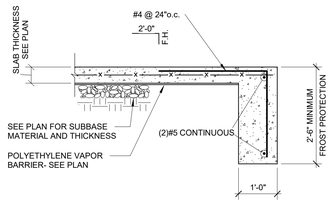
TYPICAL CONTRACTION JOINT- SAW CUT

T3300.05 N.T.S. **T3300.05**



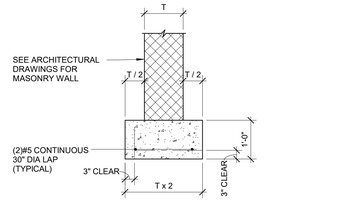
TYPICAL EQUIPMENT SLAB (INTERIOR)

T3300.09 N.T.S. **T3300.09**



TYPICAL TURNED DOWN SLAB

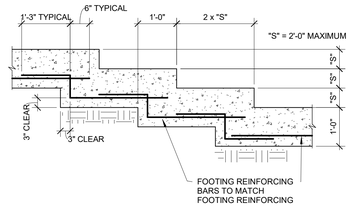
T3300.19 N.T.S. **T3300.19**



1. ALL BEARING WALL FOOTINGS TO BE A MINIMUM OF 2'-0" x 1'-0" w/ (2)#5 CONTINUOUS.
2. 8" AND 10" NON-BEARING WALLS TO HAVE 2x "T" FOOTINGS MINIMUM.
3. MINIMUM FOOTING WIDTH: 18"
4. PROVIDE (2)#5 BARS CONTINUOUS FOR FOOTINGS UP TO 24" WIDE.
   PROVIDE (3)#5 BARS CONTINUOUS FOR FOOTINGS WIDER THAN 24".

TYPICAL MASONRY WALL FOOTING

T3300.27 N.T.S. **T3300.27**

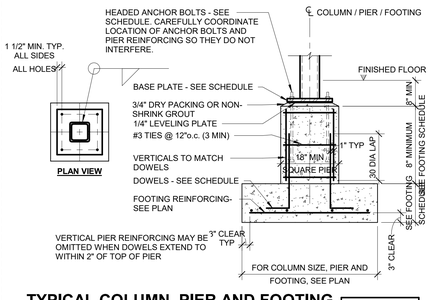


TYPICAL STEPPED FOOTING

T3300.39 N.T.S. **T3300.39**

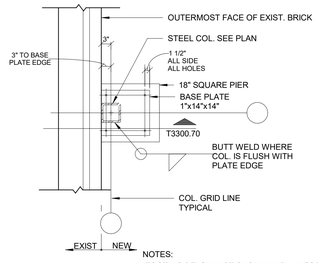
PIER SCHEDULE

COLUMN MARK	PIER SIZE (IN.)	DOWELS	ANCHOR BOLTS	BASE PLATE
C1	18 x 18	4 - #9	-	-



TYPICAL COLUMN, PIER AND FOOTING

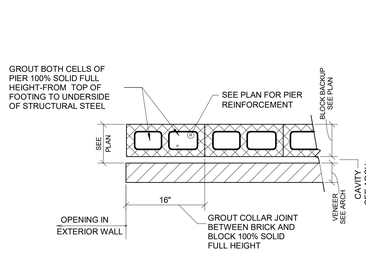
T3300.40 N.T.S. **T3300.40**



NOTES:
-FOOTING BELOW NOT SHOWN IN PLAN FOR CLARITY.
-SEE T3300.70 FOR INFO. NOT SHOWN

TYPICAL COLUMN, PIER AND FOOTING 3" FROM FACE OF EXIST WALL

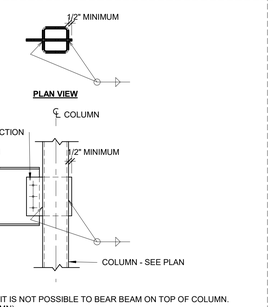
T3300_72 N.T.S. **T3300.72**



NOTE:
BEAM AND BEARING PLATE NOT SHOWN FOR CLARITY.

TYPICAL WALL BEARING AT OPENING

T4230_06 N.T.S. **T4230.06**

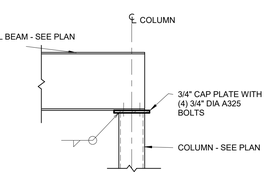


NOTES:

1. THIS DETAIL USED ONLY WHERE IT IS NOT POSSIBLE TO BEAR BEAM ON TOP OF COLUMN. (EXTEND FULL LENGTH ONTO COLUMN).
2. SLOT COLUMN AND EXTEND 3/8" PLATE THROUGH COLUMN. WELD PLATE BOTH SIDES OF COLUMN.
3. IF BEAMS FRAME PERPENDICULAR TO EACH OTHER INTO COLUMN, EXTEND ONE PLATE ALL THE WAY THROUGH COLUMN (LARGER REACTION) AND BUTT THE OTHER PLATES INTO THE FIRST PLATE.
4. STANDARD AISC CONNECTIONS.

TYPICAL BEAM TO TUBE OR PIPE COLUMN CONNECTION

5120.01 N.T.S. **T5120.01**

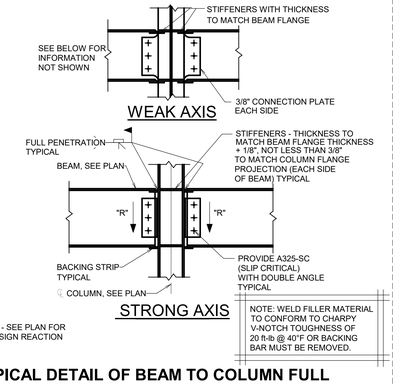


NOTES:

1. STANDARD AISC CONNECTIONS
2. FRAME BEAMS OCCURING AT THE COLUMN INTO EACH OTHER AND BEAR ONE BEAM FULL LENGTH ONTO TUBE COLUMN.

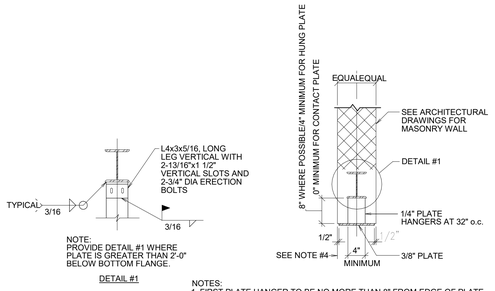
TYPICAL BEAM OVER TUBE OR PIPE COLUMN CONNECTION

T5120.02 N.T.S. **T5120.02**



TYPICAL DETAIL OF BEAM TO COLUMN FULL MOMENT CONNECTION - "MC" ON PLAN

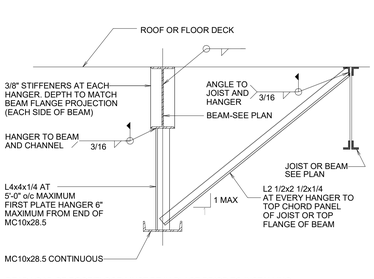
T5120_05 N.T.S. **T5120.05**



NOTES:
1. FIRST PLATE HANGER TO BE NO MORE THAN 8" FROM EDGE OF PLATE.
2. PLATE IS NOT TO EXTEND ONTO MASONRY AT END OF MASONRY OPENING.
3. PLATE TO BE CUT TO MATCH MASONRY OPENING (i.e. AT END CUT TO MATCH SKEWED WALLS WHEN THIS CONDITION OCCURS). HOLD PLATE SHY OF THE MASONRY EACH END.
4. HOLD HANGER BACK SO BRICK CAN PASS BY (4 1/2" MAXIMUM) WHERE POSSIBLE.
5. NO SPLICES IN HUNG PLATE OR CONTACT PLATE.
6. OMIT HANGERS AND WELD PLATE DIRECTLY TO BEAM FLANGE FOR CONTACT PLATE WITH 3/16" FILLET WELD, 3" @ 12"o.c. EACH SIDE.

TYPICAL BEAM AND HUNG PLATE OR TYPICAL BEAM AND CONTACT PLATE

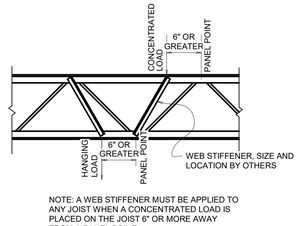
T5120_10 N.T.S. **T5120.10**



DEAD LOAD OF ROOF/FLOOR MUST BE IN PLACE PRIOR TO INSTALLING THE FOLDING PARTITION SUPPORT

TYPICAL OPERABLE WALL SUPPORT PARALLEL TO THE SPAN OF THE JOIST JOIST WITH BEAM

T5120_38 N.T.S. **T5120.38**



NOTE: A WEB STIFFENER MUST BE APPLIED TO ANY JOIST WHEN A CONCENTRATED LOAD IS PLACED ON THE JOIST 6" OR MORE AWAY FROM A PANEL POINT

TYPICAL WEB STIFFENER DETAIL

T5120_63 N.T.S. **T5120.63**

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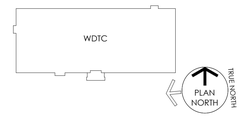
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SHEET TITLE:

TYPICAL DETAILS

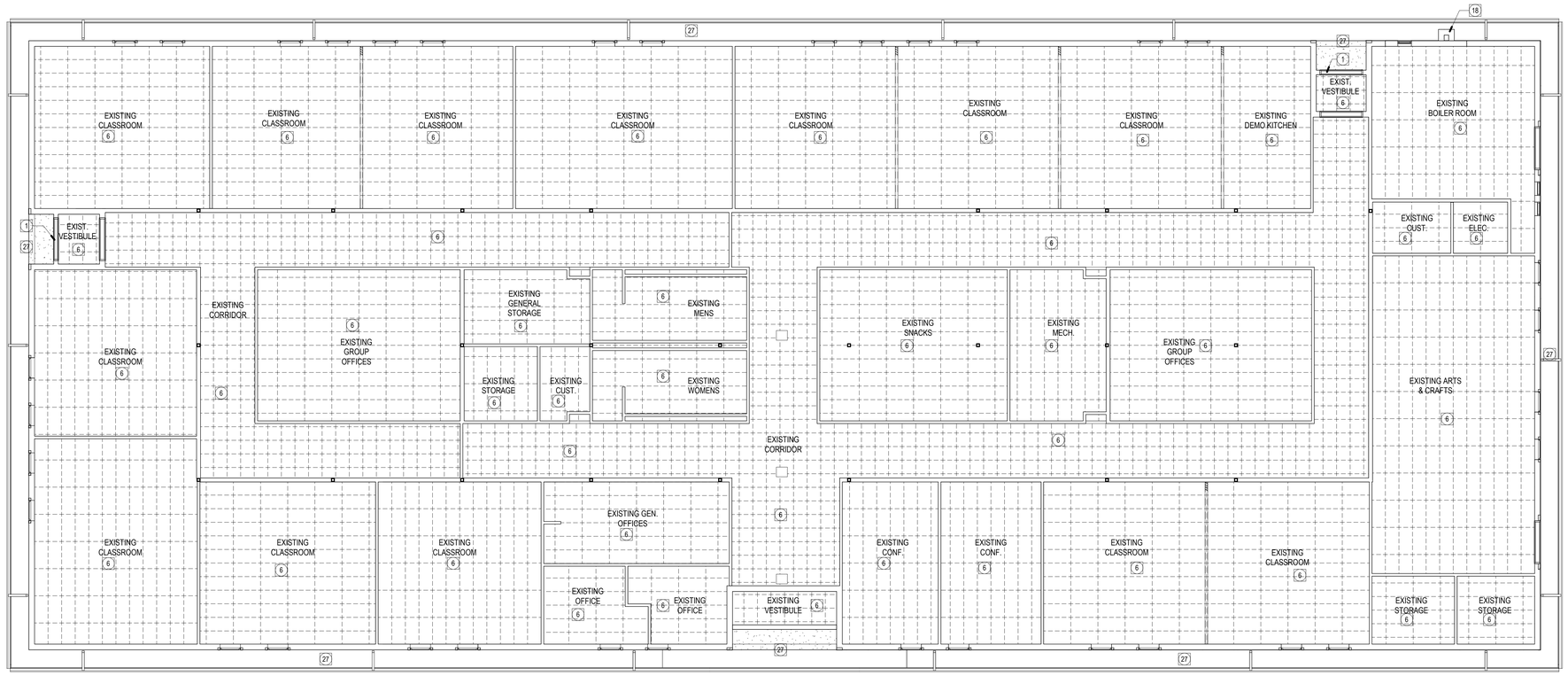
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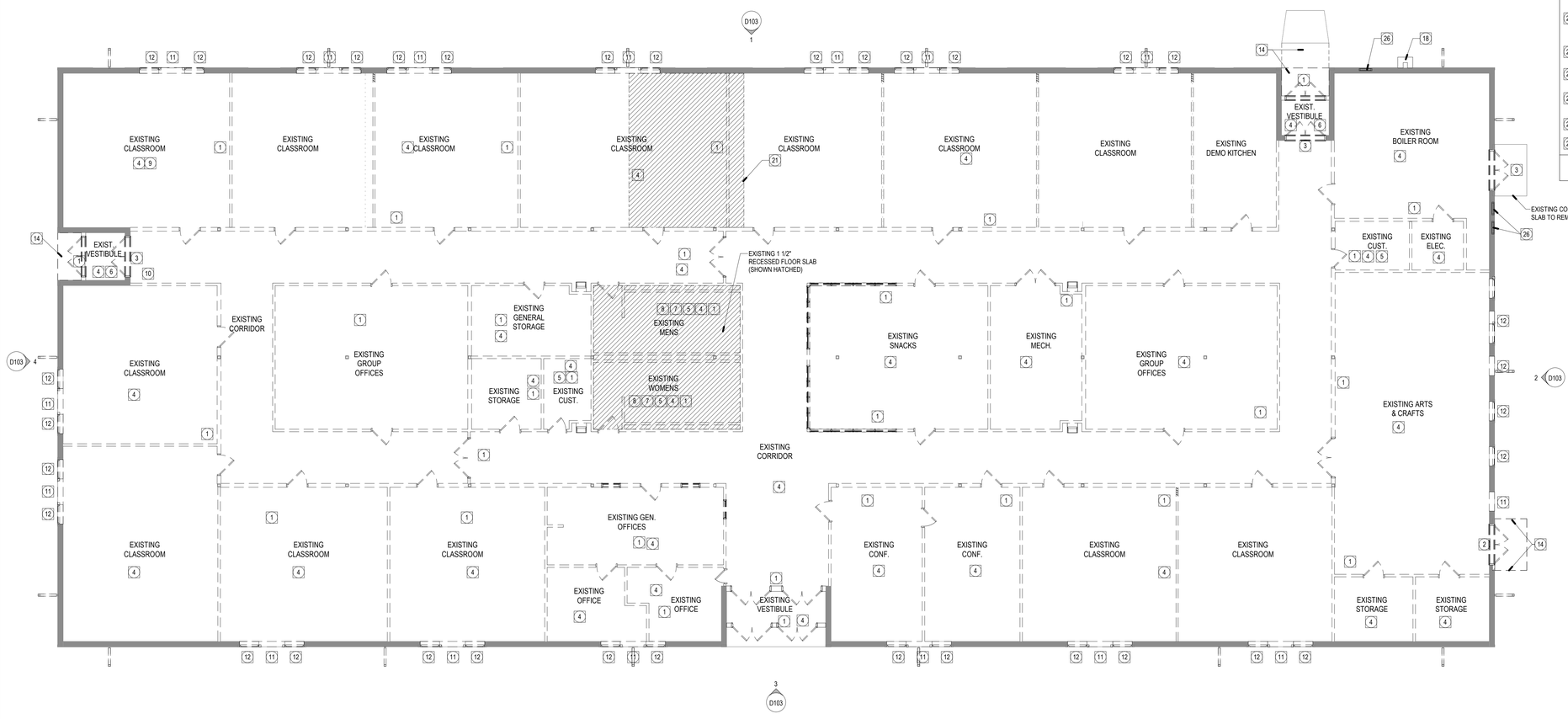
SHEET 18 OF 172

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2 D101 FIRST FLOOR REFLECTED CEILING PLAN - DEMOLITION
1/8" = 1'-0"



1 D101 FIRST FLOOR - DEMOLITION
1/8" = 1'-0"

SCALE 1/8" = 1'-0": 5 0 5 10 15 20 FEET

DEMOLITION PLAN GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ITEMS TO BE SALVAGED WITH OWNER.
2. REMOVE WALLS FROM FLOOR TO STRUCTURE ABOVE. INCLUDE ARCHITECTURAL, MECHANICAL AND ELECTRICAL ITEMS, EQUIPMENT, ETC. REFER TO MECHANICAL/ ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO AND COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL DEMOLITION WORK REQUIRED BUT NOT INDICATED ON THIS DRAWING.
4. FOR DEMOLITION AND PATCHING OF WALLS REQUIRING NEW FINISHES, REFER TO FINISH SCHEDULE FOR MATERIALS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THEIR OWN TRADES WORK.
6. EACH TRADE TO COORDINATE THEIR RESPECTIVE DEMOLITION RESPONSIBILITIES WITH OTHER TRADES WORKING ON THE PROJECT.
7. CONTRACTOR TO MAINTAIN FIRE RATINGS OF ALL FLOORS, WALLS AND CEILINGS. FILL ALL VOIDS, HOLES AND OPENINGS CREATED DUE TO DEMOLITION WITH APPROVED RATED CONSTRUCTION MATERIALS OR FIRE SAFING MATERIAL TO MAINTAIN THE FIRE RATING OF THE FLOORS, WALLS AND CEILINGS.
8. PATCH AND REPAIR EXISTING CEILING AS REQUIRED DUE TO DEMOLITION.
9. COORDINATE DEMOLITION WITH NEW WORK PLANS.
10. SALVAGE EXISTING BRICK FOR INFILL AND PATCHING TO MATCH EXISTING, EXTERIOR AND INTERIOR, COORDINATE.
11. SAW CUT EXISTING SLAB FLOOR AS REQUIRED FOR NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK, TYPICAL AT ALL LOCATIONS NOT SHOWN ON DEMOLITION PLAN.

DEMOLITION KEYNOTE LEGEND

#	DESCRIPTION
1	REMOVE WALL IN ITS ENTIRETY INCLUDING ANY DOORS AND/OR WINDOWS; COORDINATE WITH NEW CONSTRUCTION
2	REMOVE DOOR AND FRAME; INFILL DEMO'D EXISTING DOOR; TYP. BRICK/MORTAR TO MATCH EXISTING IN ALL RESPECTS, TYPICAL THROUGHOUT (V.I.F.)
3	REMOVE DOOR AND/OR WINDOW AND FRAME
4	REMOVE FLOOR FINISH IN ITS ENTIRETY
5	REMOVE PLUMBING FIXTURE(S) IN ITS ENTIRETY; COORDINATE REMOVAL OF ALL FIXTURES AND ASSOCIATED PIPING WITH PLUMBING DEMOLITION DRAWING.
6	REMOVE CEILING IN ITS ENTIRETY; COORDINATE REMOVAL OF ALL CEILING FIXTURES AND DEVICES WITH ALL OTHER TRADES / DISCIPLINES DEMOLITION DRAWINGS
7	REMOVE TOILET PARTITION IN ITS ENTIRETY
8	REMOVE COUNTERTOPS AND/OR CASEWORK IN ITS ENTIRETY
9	REMOVE WALL FINISH AND ANY SUBSTRATE IN ITS ENTIRETY - STUD, CMU, OR METAL FURRING TO REMAIN
10	REMOVE FIRE EXTINGUISHERS
11	REMOVE EXTERIOR WALL AND VENEER (OR PORTION) SHOWN AS DASHED. PROVIDE LINTEL, PER STRUCTURAL DRAWINGS IF REQUIRED. - COORDINATE w/ NEW CONSTRUCTION
12	REMOVE STOREFRONT IN ITS ENTIRETY.
13	REMOVE PORTION OF BRICK SILL AT WINDOW DEMOLITION, AND SECTIONS OF WALLS BEING REMOVED; SALVAGE AND REUSE BRICK; COORDINATE WITH NEW WORK; TYPICAL
13A	REMOVE PORTION OF BRICK JAMB AT WINDOW DEMOLITION LOCATIONS; SALVAGE AND REUSE BRICK; COORDINATE WITH NEW WORK; TYPICAL
13B	REMOVE PORTION OF BRICK BAND AT DEMOLITION LOCATIONS; SALVAGE AND REUSE BRICK; COORDINATE WITH NEW WORK; TYPICAL
14	REMOVE CONCRETE SLAB IN ITS ENTIRETY
15	REMOVE PORTION OF LANDSCAPE, LAWN, AND SOIL AND PREPARE AREA FOR NEW LANDCAPE.
16	SAW CUT EXISTING FLOOR FOR NEW FOOTINGS; REFER TO SHEETS Sxxx & Sxxx FOR NEW FOOTINGS / ELEVATED STRUCTURAL FLOOR FRAMING
17	REMOVE DRINKING FOUNTAIN, AND PERTAINING PLUMBING; COORDINATE WITH PLUMBING.
18	REMOVE BOILER CHIMNEY IN ITS ENTIRETY; PATCH AND REPAIR EXISTING BRICK AS REQUIRED.
19	REMOVE METAL MECHANICAL SCREENING IN ITS ENTIRETY; AND COORDINATE EXISTING STRUCTURE WITH STRUCTURAL AND NEW WORK.
20	REMOVE EXISTING METAL ROOF, INSULATION DOWN TO EXISTING ROOF DECK, IN ITS ENTIRETY; PREPARE FOR NEW INSULATION AND ROOFING SYSTEM.
21	MECHANICALLY GRIND DOWN EXISTING CONCRETE SLAB AS REQUIRED IN NEW KITCHEN LAB SPACE TO ALLOW NEW FLOOR FINISH TO ALIGN WITH ADJACENT NEW FLOOR FINISH IN KITCHEN CATER SPACE. (HATCH AREA; COORDINATE WITH NEW WORK)
22	NOT USED
23	REMOVE ROOF PENETRATIONS, ROOF TOP EQUIPMENT AND CURBS PERTAINING TO EXISTING EQUIPMENT AND HOODS; PATCH AND REPAIR ROOF AS REQUIRED FOR INSTALLATION OF NEW INSULATION AND ROOFING SYSTEM; COORDINATE WITH MECHANICAL AND PLUMBING DRAWINGS.
24	REMOVE EXISTING ROOF (OR PORTION-HATCHED) ROOF FRAMING, METAL DECK, METAL COPNG, AND INSULATION IN ITS ENTIRETY; PREPARE ROOF FOR NEW WORK AND COORDINATE WITH STRUCTURAL.
25	CUT OPENING IN ROOF DECK FOR CLERESTORY HIGH ROOF AREAS. COORDINATE WITH STRUCTURAL
26	REMOVE EXISTING LOUVER (LOW OR HIGH); INFILL DEMO'D EXISTING LOUVER; TYP. BRICK/MORTAR TO MATCH EXISTING IN ALL RESPECTS, TYPICAL THROUGHOUT (V.I.F.)
27	REMOVE EXISTING SOFFIT, FRAMING, AND WOOD OUTRIGGERS FACADES; PREPARE FOR NEW VENTED ALUM SOFFITS
28	REMOVE EXISTING GUTTERS AND DOWNSPOUT; PREPARE FOR NEW AND COORDINATE WITH ARCHITECTURAL AND CIVIL DRAWINGS.
	ITEMS REMOVED TYPICALLY DENOTED BY LIGHT DASHED LINES

PROJECT TEAM

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Signature _____ Date _____
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PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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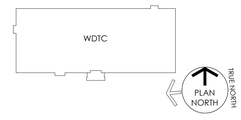
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR & RCP - DEMOLITION

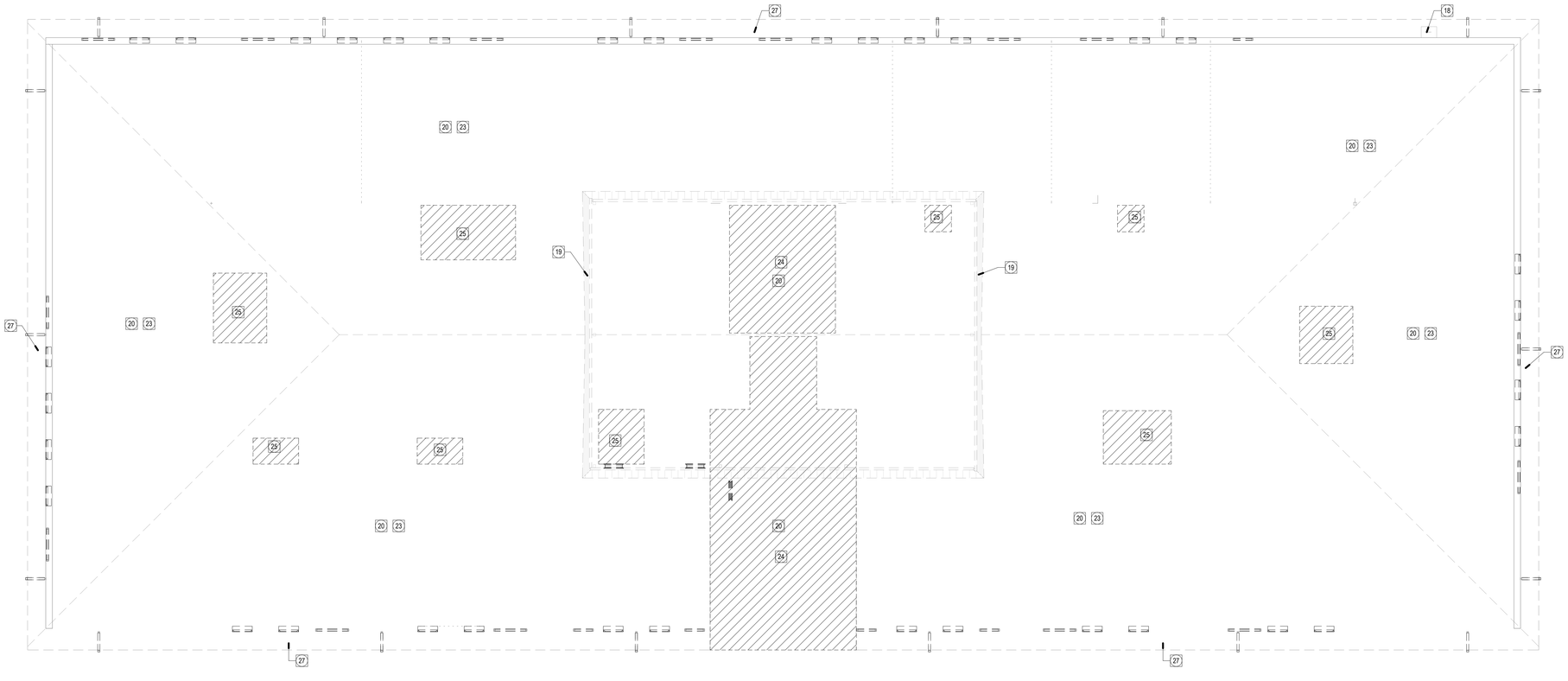
SHEET NUMBER:

D101

SHEET 19 OF 172

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1 D102 ROOF PLAN - DEMOLITION
1/8" = 1'-0"

1/8" = 1'-0" 5 0 5 10 15 20
SCALE FEET

DEMOLITION PLAN GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE ITEMS TO BE SALVAGED WITH OWNER.
2. REMOVE WALLS FROM FLOOR TO STRUCTURE ABOVE. INCLUDE ARCHITECTURAL, MECHANICAL AND ELECTRICAL ITEMS, EQUIPMENT, ETC. REFER TO MECHANICAL/ ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
3. REFER TO AND COORDINATE WITH MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR ADDITIONAL DEMOLITION WORK REQUIRED BUT NOT INDICATED ON THIS DRAWING.
4. FOR DEMOLITION AND PATCHING OF WALLS REQUIRING NEW FINISHES, REFER TO FINISH SCHEDULE FOR MATERIALS.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING OF THEIR OWN TRADES WORK.
6. EACH TRADE TO COORDINATE THEIR RESPECTIVE DEMOLITION RESPONSIBILITIES WITH OTHER TRADES WORKING ON THE PROJECT.
7. CONTRACTOR TO MAINTAIN FIRE RATINGS OF ALL FLOORS, WALLS AND CEILINGS. FILL ALL VOIDS, HOLES AND OPENINGS CREATED DUE TO DEMOLITION WITH APPROVED RATED CONSTRUCTION MATERIALS OR FIRE SAFING MATERIAL TO MAINTAIN THE FIRE RATING OF THE FLOORS, WALLS AND CEILINGS.
8. PATCH AND REPAIR EXISTING CEILING AS REQUIRED DUE TO DEMOLITION.
9. COORDINATE DEMOLITION WITH NEW WORK PLANS.
10. SALVAGE EXISTING BRICK FOR INFILL AND PATCHING TO MATCH EXISTING, EXTERIOR AND INTERIOR, COORDINATE.
11. SAW CUT EXISTING SLAB FLOOR AS REQUIRED FOR NEW MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION WORK, TYPICAL AT ALL LOCATIONS NOT SHOWN ON DEMOLITION PLAN.

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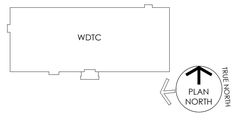
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DRAWN BY: NHA
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JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF PLAN - DEMOLITION

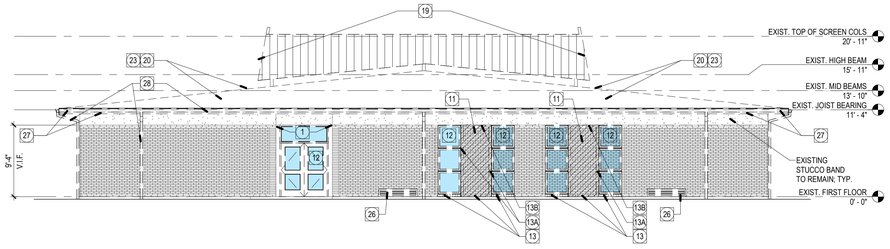
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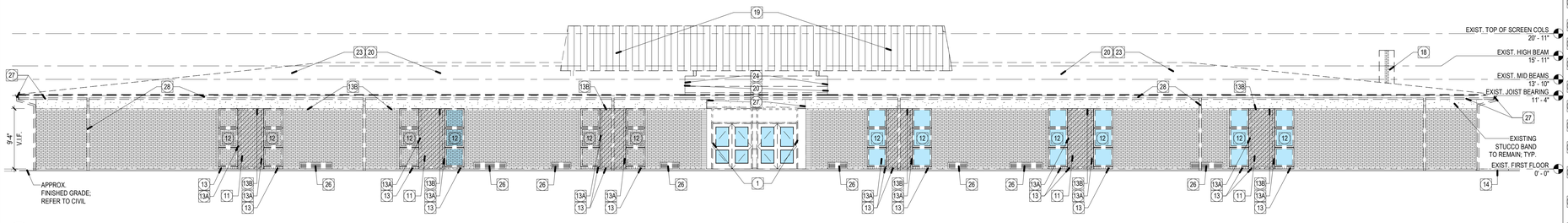
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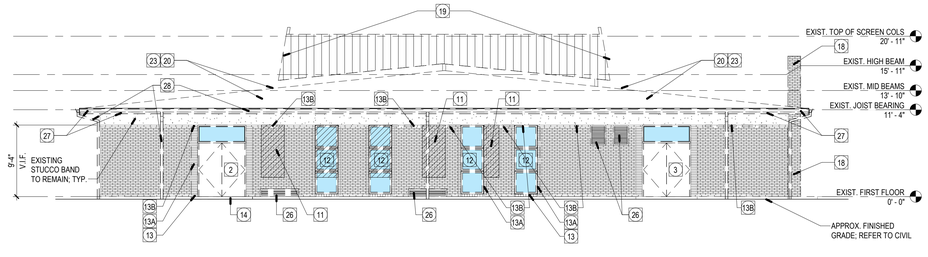
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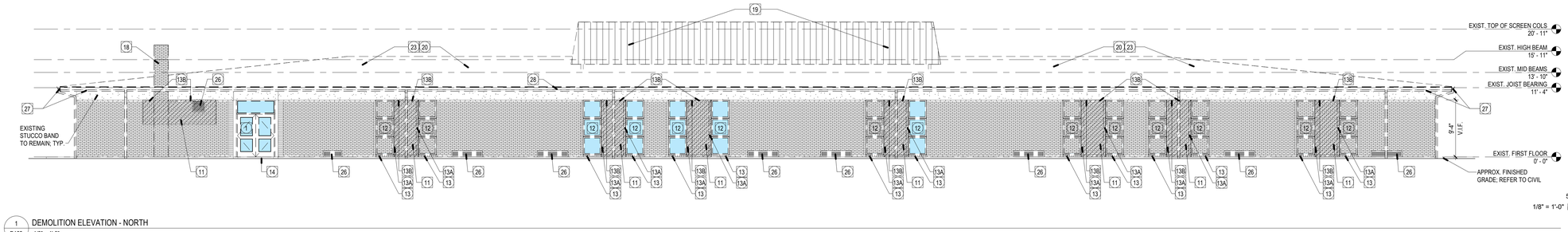
4 / D103 DEMOLITION ELEVATION - WEST
1/8" = 1'-0"



3 / D103 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"



2 / D103 DEMOLITION ELEVATION - EAST
1/8" = 1'-0"



1 / D103 DEMOLITION ELEVATION - NORTH
1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

DEMOLITION PLAN GENERAL NOTES

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22	NOT USED
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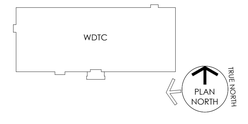
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DRAWN BY: NHA
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JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
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SHEET TITLE:

DEMOLITION ELEVATIONS

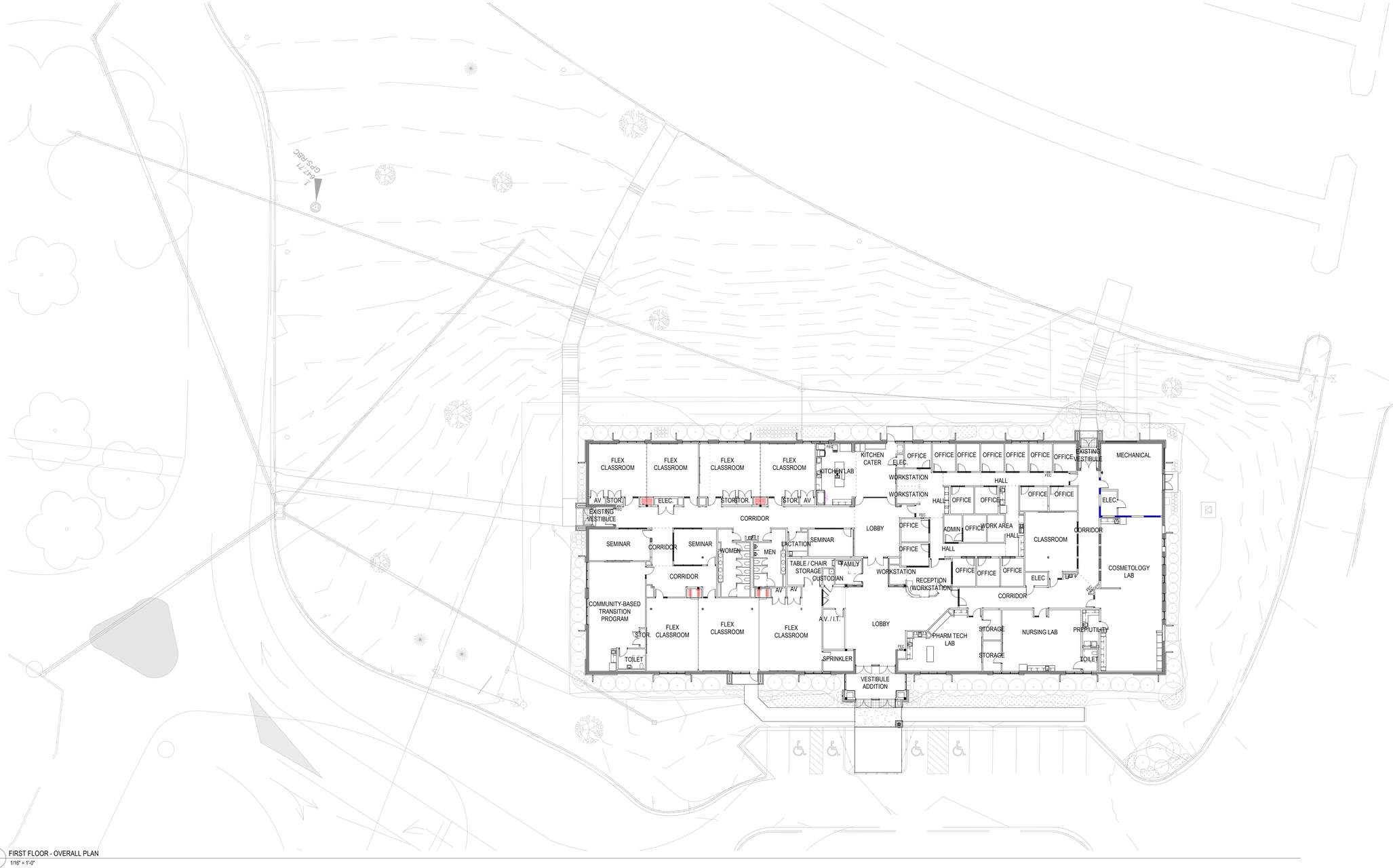
SHEET NUMBER:

D103

SHEET 21 OF 172

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Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt
11/4/2025 9:03:17 AM



2 A001 FIRST FLOOR - OVERALL PLAN
1/16" = 1'-0"

11/4/2026 9:01:14 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt

PROJECT TEAM

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P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

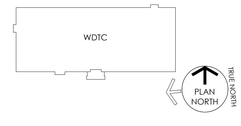
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:	
DRAWN BY:	NHA
CHK'D BY:	NHA

JOB NUMBER:	**25909 - DGS# CC-10-MC25-488**
ISSUE DATE:	**11/06/2026**

SHEET TITLE:

FIRST FLOOR - OVERALL PLAN

SHEET NUMBER:

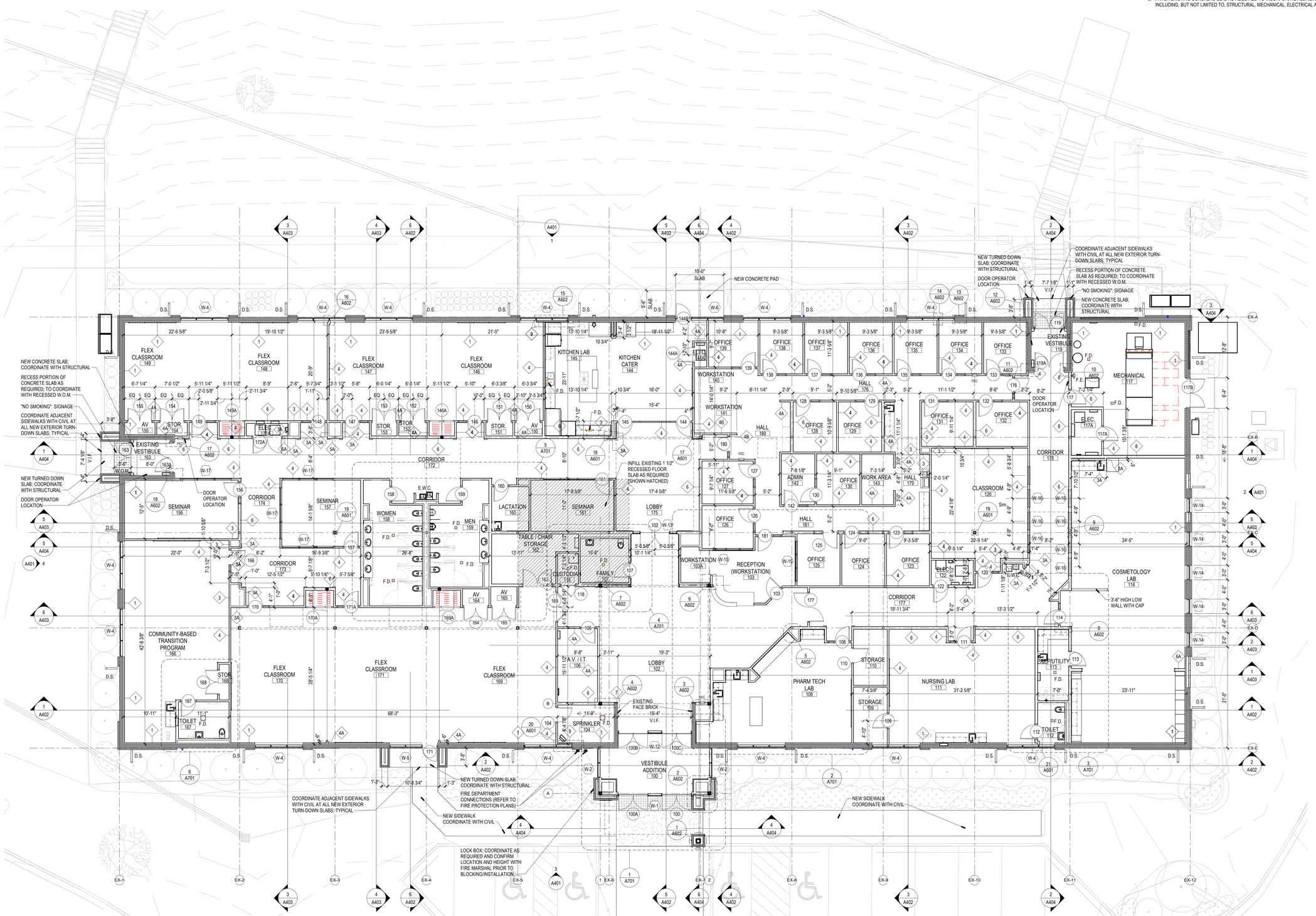
A001

SHEET 22 OF 172

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FLOOR PLAN GENERAL NOTES

1. ALL DAMAGE OR DISTURBANCE TO GRADING, SHALL BE REPAIRED AND RESTORED AS REQUIRED. SEE CIVIL SHEETS C100 THRU C105 .
2. ALL NEW AND PATCHED BRICK/MORTAR EXPOSED TO VIEW (EXTERIOR AND INTERIOR) SHALL MATCH EXISTING IN ALL RESPECTS, REUSE SALVAGED BRICK WHERE POSSIBLE.
3. PATCH EXISTING CONCRETE SLAB AS REQUIRED TO INCORPORATE ALL NEW IN-FLOOR WORK, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.



1 A101 FIRST FLOOR PLAN
1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

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PROJECT TEAM

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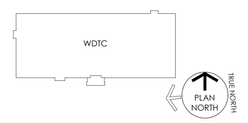
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

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Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

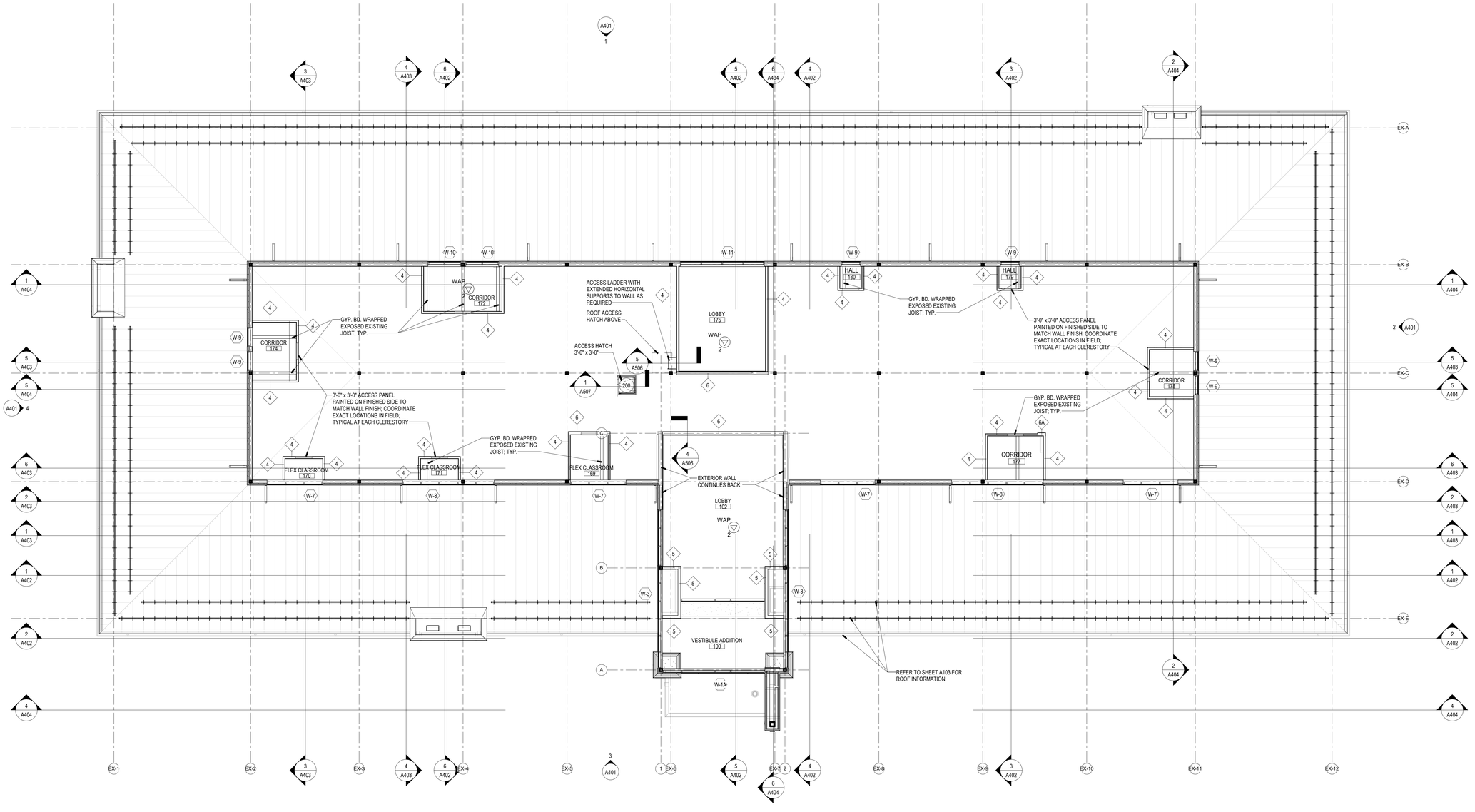
FIRST FLOOR PLAN

SHEET NUMBER:

A101

SHEET 23 OF 172

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1 A102 CLERESTORY FLOOR PLAN
1/8" = 1'-0"

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11/4/2026 9:01:19 AM

PROJECT TEAM

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Signature _____ Date _____
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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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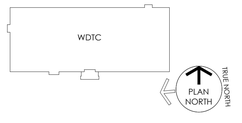
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	DESIGN DEVELOPMENT	05/01/2026
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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

CLERESTORY FLOOR PLAN

SHEET NUMBER:

A102

SHEET 24 OF 172

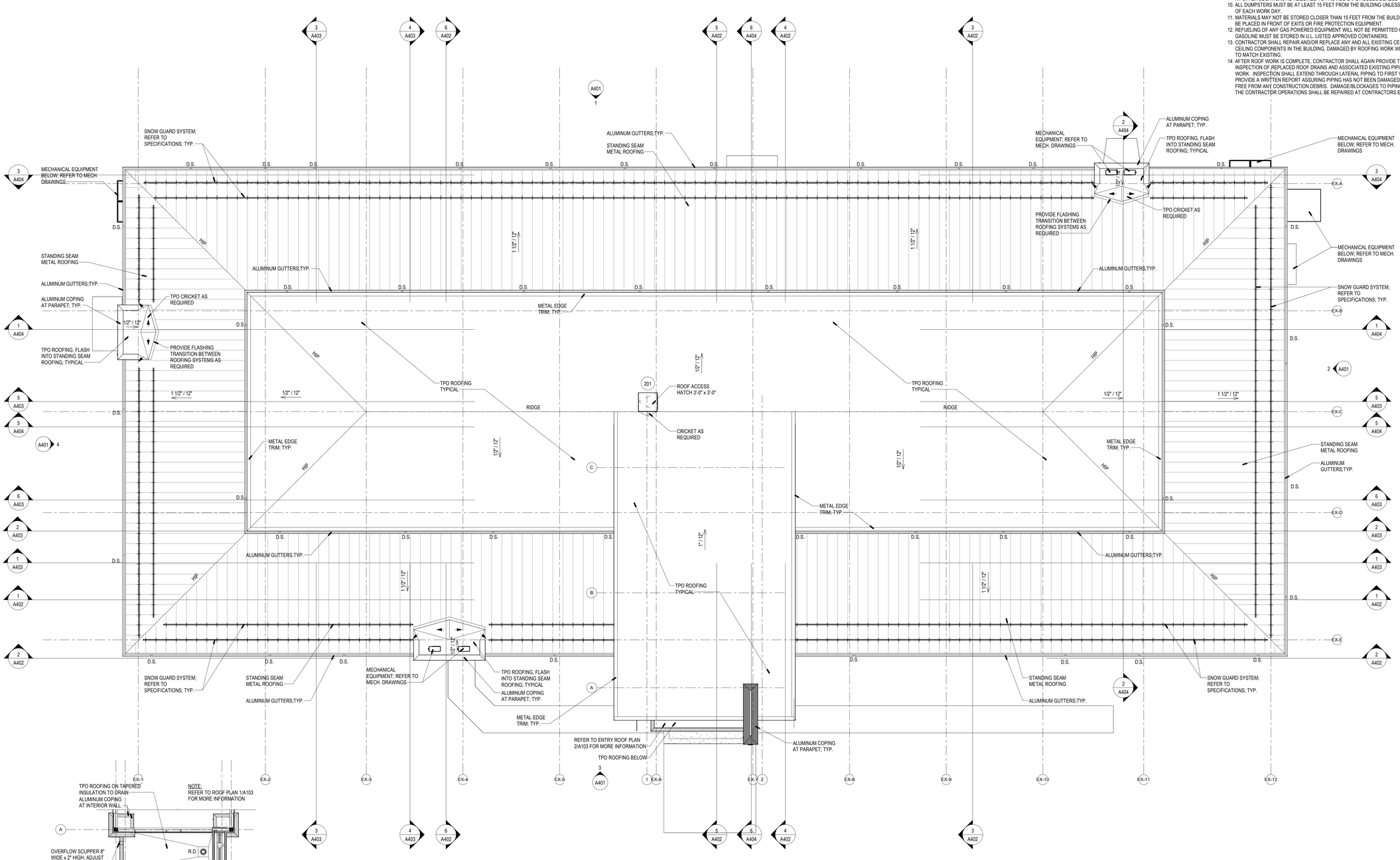
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ROOFING GENERAL NOTES

1. ROOF CRICKETS SHALL BE SLOPED AT TWICE THE SLOPE OF THE ROOF IT IS TIED INTO.
2. MEMBRANE ROOF AREAS WITH SLOPED INSULATION SHALL HAVE A MINIMUM OF 5" INSULATION THICKNESS AT DRAIN AND LOW POINTS.

ROOF REPLACEMENT NOTES

1. CONTRACTOR AND ALL SUB-CONTRACTORS SHALL VISIT THE SITE AND FAMILIARIZE THEMSELVES WITH THE PROJECT, INCLUDING ALL EXISTING CONDITIONS (EXTERIOR AND INTERIOR), OVERALL DIMENSIONS, DETAILS AND ALL FACTORS WHICH WILL AFFECT THE WORK TO BE ACCOMPLISHED.
2. THE INFORMATION SHOWN ON THESE DRAWINGS HAS BEEN COMPLIED FROM VARIOUS SOURCES AND MAY NOT REFLECT THE ACTUAL CONDITIONS, INCLUDING MINOR COMPONENTS, AT THE TIME OF CONSTRUCTION.
3. ANY SCHEDULING OF PHASING OF DEMOLITION WORK SHALL BE COORDINATED.
4. ITEMS OF CONSTRUCTION SHALL BE 100% WATERTIGHT ON A DAILY BASIS. REMOVE ONLY AS MUCH MATERIAL AS CAN BE MADE WATERTIGHT ON THE SAME DAY OF WORK.
5. CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER PROTECTION MEASURES AS REQUIRED DURING DEMOLITION TO PREVENT INJURY TO PEOPLE AND/OR PROPERTY, INCLUDING INTERIOR PROTECTIONS BOTH THE EXISTING BUILDING AND PORTIONS OF ADJACENT CBES BUILDING.
6. THE CONTRACTOR SHALL REPORT DETERIORATED, DAMAGED OR UNSUITABLE ROOF DECK OR SUBSTRATE COMPONENTS TO THE OWNER AND ARCHITECT DURING DEMOLITION AND PRIOR TO PERFORMING ANY REPLACEMENT WORK.
7. INFILL ANY UNUSED OPENINGS IN DECKING AS REQUIRED WITH LIKE MATERIALS.
8. CONTRACTOR SHALL EXTEND HEIGHT OF EXISTING AND NEW CURBS/BASES AS REQUIRED TO MAINTAIN A MINIMUM CLEARANCE OF 8" BETWEEN TOP OF CURB AND NEW ROOFING.
9. CONTRACTOR TO PROVIDE TEMPORARY OVERHEAD PROTECTION AT BUILDING ENTRANCES AND AT OTHER LOCATIONS AS REQUIRED TO PROVIDE SAFE ACCESS/EGRESS TO/FROM BUILDING.
10. ALL DUMPSTERS MUST BE AT LEAST 15 FEET FROM THE BUILDING UNLESS EMPTIED AT THE END OF EACH WORK DAY.
11. MATERIALS MAY NOT BE STORED CLOSER THAN 15 FEET FROM THE BUILDING(S) AND MAY NOT BE PLACED IN FRONT OF EXITS OR FIRE PROTECTION EQUIPMENT.
12. REFUELING OF ANY GAS POWERED EQUIPMENT WILL NOT BE PERMITTED ON THE ROOF. GASOLINE MUST BE STORED IN U.L. LISTED APPROVED CONTAINERS.
13. CONTRACTOR SHALL REPAIR AND/OR REPLACE ANY AND ALL EXISTING CEILING TILES OR OTHER CEILING COMPONENTS IN THE BUILDING, DAMAGED BY ROOFING WORK WITH LIKE MATERIALS TO MATCH EXISTING.
14. AFTER ROOF WORK IS COMPLETE, CONTRACTOR SHALL AGAIN PROVIDE THIRD-PARTY CAMERA INSPECTION OF REPLACED ROOF DRAINS AND ASSOCIATED EXISTING PIPING AFFECTED BY THE WORK. INSPECTION SHALL EXTEND THROUGH LATERAL PIPING TO FIRST VERTICAL LEADER. PROVIDE A WRITTEN REPORT ASSURING PIPING HAS NOT BEEN DAMAGED DURING WORK AND IS FREE FROM ANY CONSTRUCTION DEBRIS. DAMAGE/BLOCKAGES TO PIPING COMPROMISED BY THE CONTRACTOR OPERATIONS SHALL BE REPAIRED AT CONTRACTORS EXPENSE.



2 A103 ENTRY ROOF PLAN 1/8" = 1'-0"

1 A103 ROOF PLAN 1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PROJECT TEAM

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Signature _____ Date _____
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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

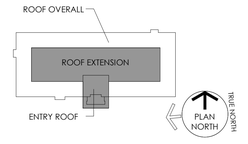
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF PLAN

SHEET NUMBER:

A103

SHEET 25 OF 172

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11/6/2026 9:01:22 AM Autodesk Docs://25909 Allegany College of MD /ACAA WTDC Renovation/25909_Allegany College_V25.rvt

REFLECTED CEILING PLAN GENERAL NOTES

1. LIGHTING MAY NEED ADJUSTED BASED ON EXISTING CONDITIONS. REVIEW AND COORDINATE ADJUSTMENTS WITH ARCHITECT.
2. MECHANICAL ITEMS SHOWN ARE FOR COORDINATION PURPOSES ONLY. REFER TO MECHANICAL DRAWINGS FOR DETAILED INFORMATION AND PLACEMENT.

RCP LEGEND

FIXTURES

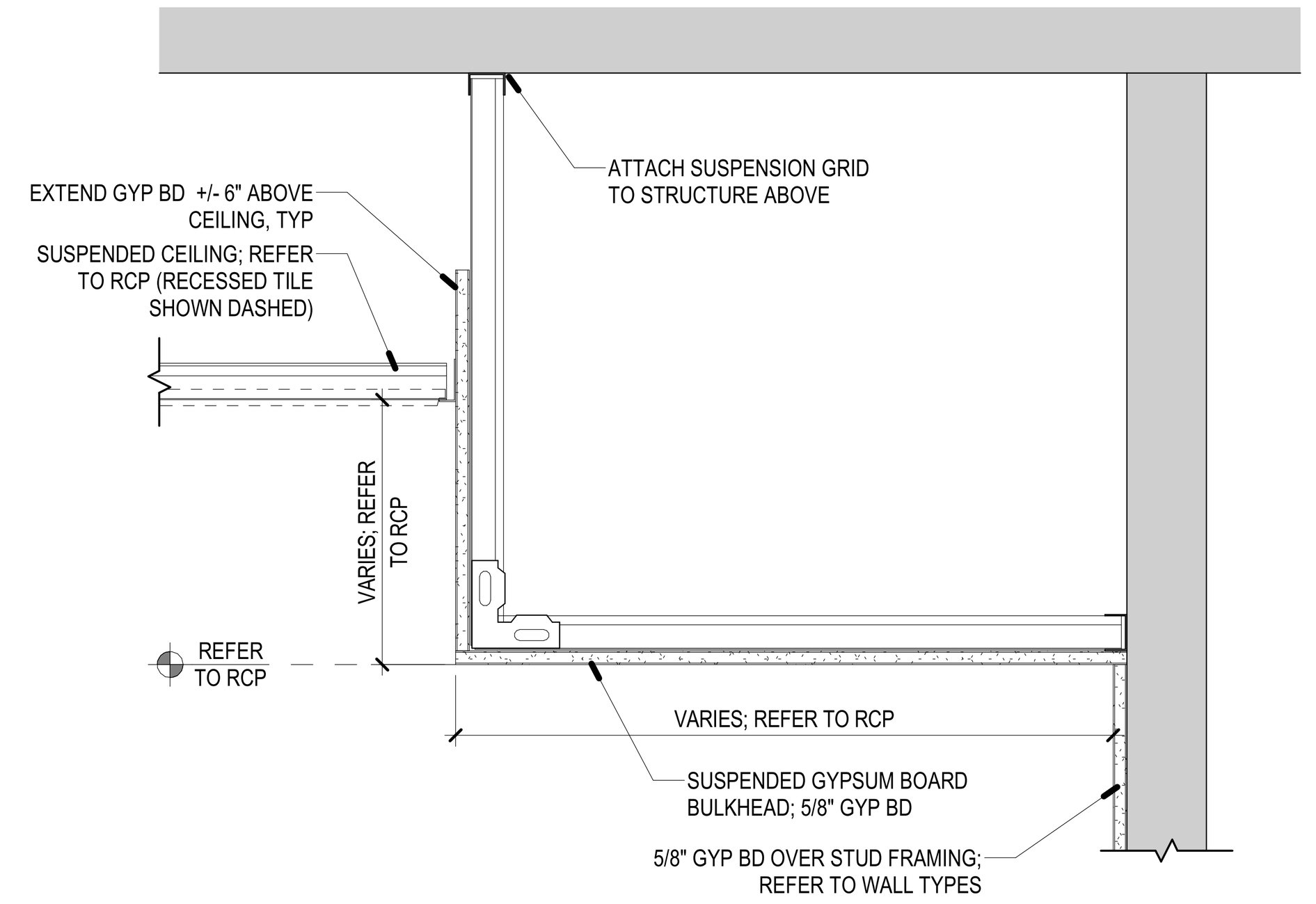
- RECESSED ROUND FIXTURE
- RECESSED DIRECTIONAL LINEAR FIXTURE
- RECESSED LINEAR FIXTURE
- WALL MOUNTED LINEAR FIXTURE
- 1' x 4' FIXTURE
- 2' x 2' FIXTURE
- 2' x 4' FIXTURE
- PENDANT FIXTURE
- SEMI-FLUSH PENDANT FIXTURE
- OCCUPANCY SENSOR

MECHANICAL

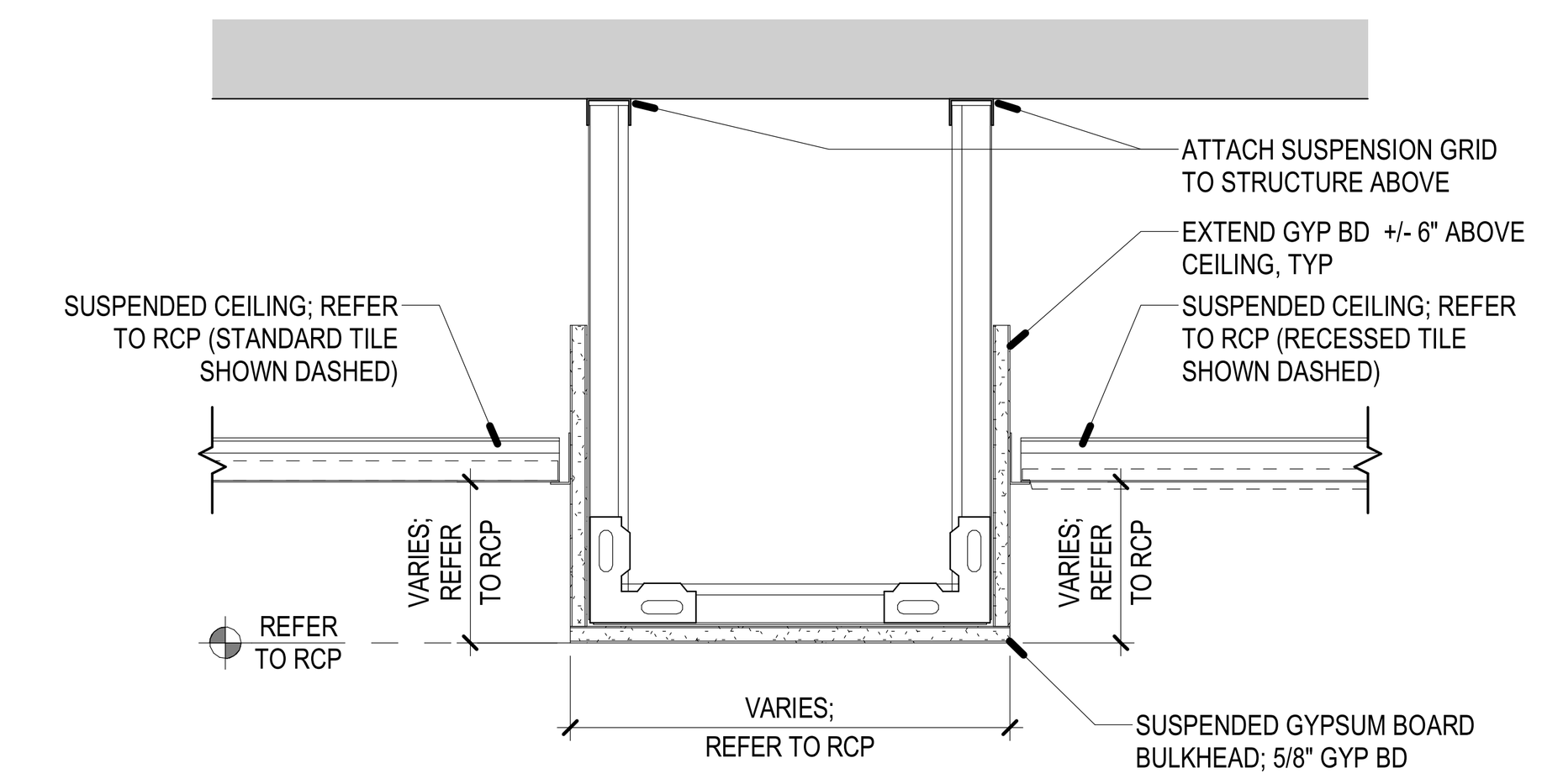
- SUPPLY
- RETURN
- EXHAUST

CEILINGS

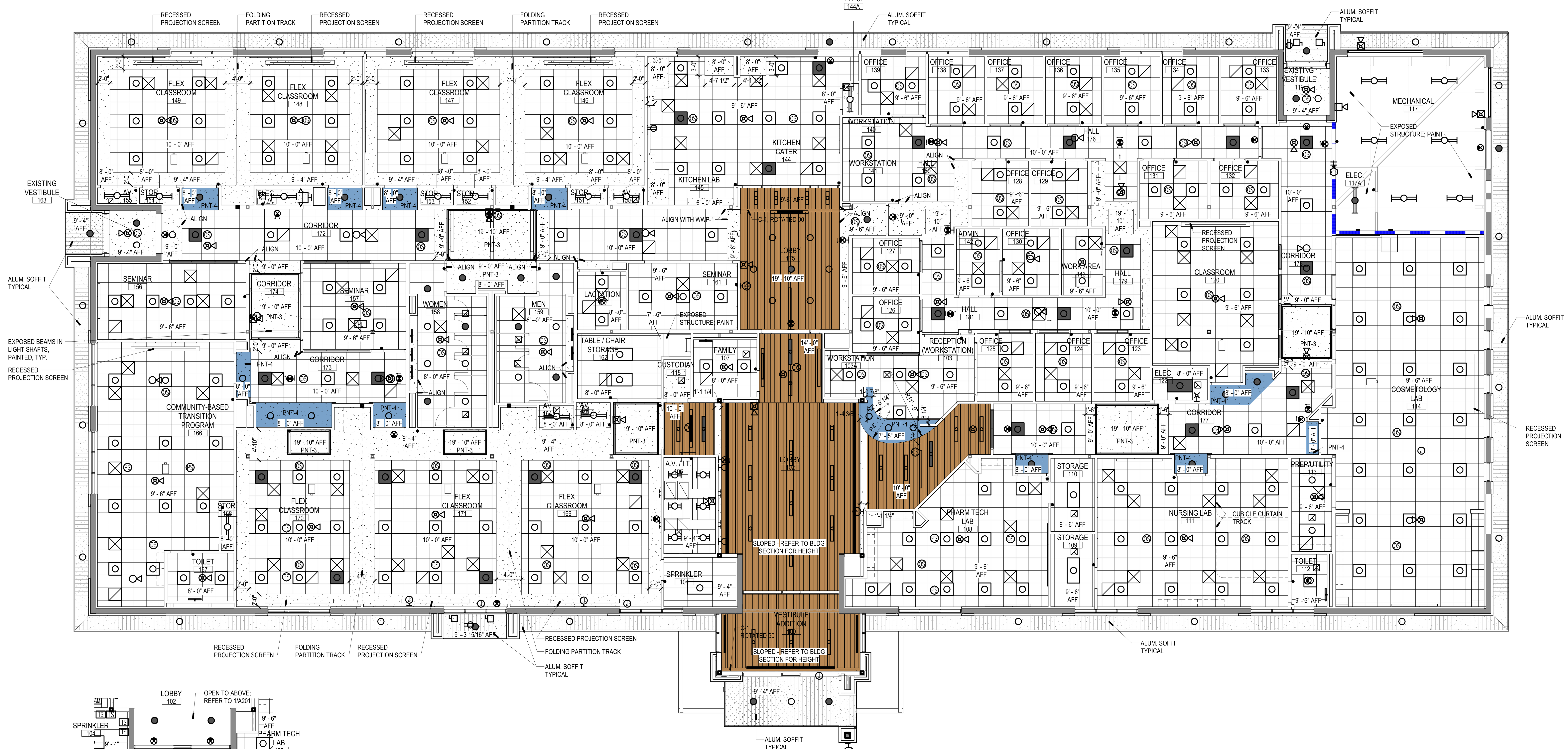
- GYPSUM BOARD CEILING
- 24" x 48" ACOUSTICAL CEILING TILE
- 24" x 24" ACOUSTICAL CEILING TILE
- 4-6-8 METAL WOOD-LOOK PLANK CEILING
- ALUMINIUM SOFFIT

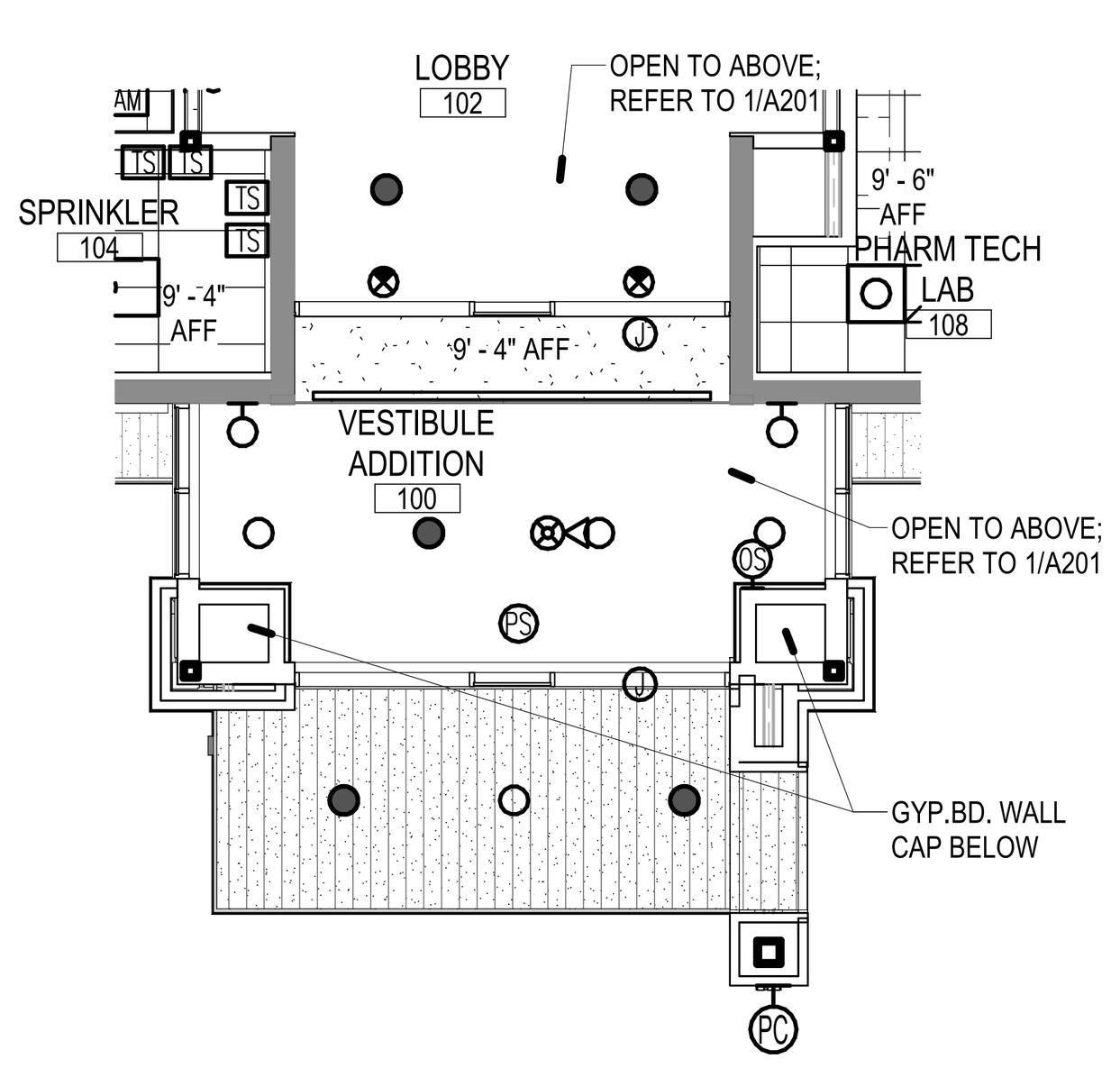


4 / A201 TYPICAL CEILING DETAIL - CEILING / BULKHEAD / WALL
1 1/2" = 1'-0"



3 / A201 TYPICAL CEILING DETAIL - CEILING / BULKHEAD / CEILING
1 1/2" = 1'-0"





2 / A201 PARTIAL FIRST FLOOR - VESTIBULE - REFLECTED CEILING PLAN
1/8" = 1'-0"

1 / A201 FIRST FLOOR - REFLECTED CEILING PLAN
1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PROJECT TEAM

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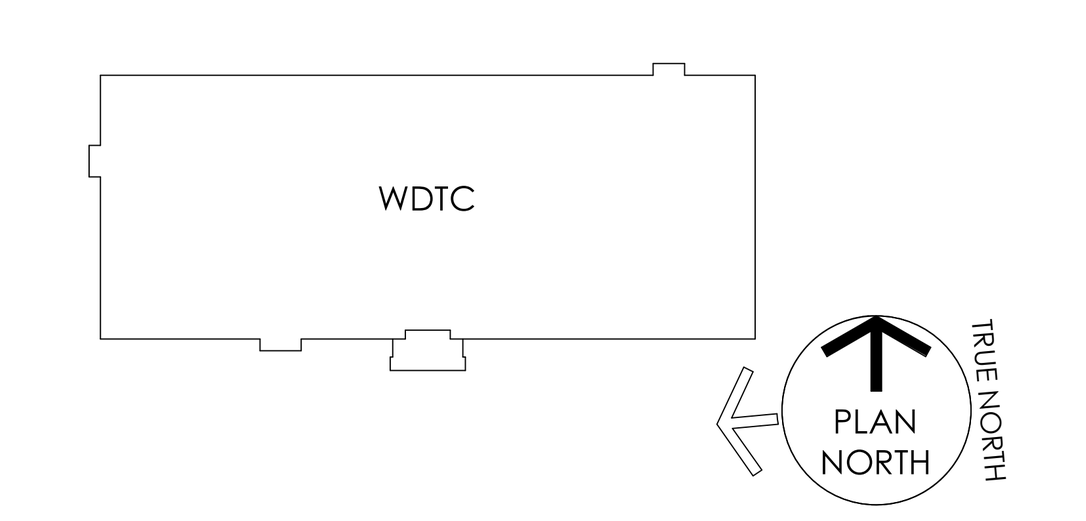
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Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR - REFLECTED CEILING PLAN

SHEET NUMBER:

A201

SHEET 26 OF 172

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DOOR SCHEDULE

MARK	DOOR DATA							FRAME DATA					REMARKS
	TYPE	OPENING DIMENSION W x H	MULTI LEAF DOOR	MATERIAL	GLAZING	RATING	HARDWARE	TYPE	MATERIAL	HEAD	JAMB	SILL	
EXIST. FIRST FLOOR													
100	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	01	W-1	ALUM	M7, H5	J5, J5A	S4 SIM.	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
100A	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	01B	W-1	ALUM	M7, H5	J5, J5A	S4 SIM.	-
100B	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	02A	W-12	ALUM	M7	J8	S3	-
100C	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	02	W-12	ALUM	M7	J8	S3	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
102	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	02B	W-13	ALUM	H3, M7	J3A, M6A	S3	-
103	D	3' - 0" x 7' - 0"		WD	G4	-	06B	F-1	HM	H1	J1	-	-
104	A	3' - 0" x 7' - 0"		WD	-		08A	F-1	HM	H1	J1	-	3/4" UNDERCUT
106	A	3' - 0" x 7' - 0"		WD	-	-	06C	F-1	HM	H1	J1	-	3/4" UNDERCUT
107	A	3' - 0" x 7' - 0"		WD	-	-	04	F-1	HM	H1	J1	-	3/4" UNDERCUT
108	A	3' - 0" x 7' - 0"		WD	-	-	06	F-4	HM	H1, H1A	J1, J1A, M1	-	-
109	A	3' - 0" x 7' - 0"		WD	-	-	08D	F-1	HM	H1	J1	-	-
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111	A	3' - 0" x 7' - 0"		WD	-	-	06	F-4	HM	H1, H1A	J1, J1A, M1	-	-
112	A	3' - 0" x 7' - 0"		WD	-	-	04A	F-1	HM	H1	J1	-	3/4" UNDERCUT
113	A	3' - 0" x 7' - 0"		WD	-	-	08	F-1	HM	H1	J1	-	-
114	A	3' - 0" x 7' - 0"		WD	-	-	06	F-4	HM	H1, H1A	J1, J1A, M1	-	-
117	A	3' - 0" x 7' - 0"		WD	-	60 MIN	08E	F-1	HM	H1	J1	-	-
117A	A	3' - 0" x 7' - 0"		WD	-	-	03C	F-1	HM	H1	J1	-	PANIC HARDWARE
117B	A	6' - 0" x 7' - 0"	●	HM	-	-	01C	F-8	HM	M3, H9	J9, J9A	-	PANIC HARDWARE
118	A	3' - 0" x 7' - 0"		WD	-	-	08A	F-1	HM	H1	J1	-	3/4" UNDERCUT
119	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	01	F-8	ALUM	H4	J4A	S4	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
119A	E	6' - 0" x 7' - 0"	●	ALUM	G4	-	02	F-1	ALUM	H4A	10/A602, 11/A602	S3	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
120	A	3' - 0" x 7' - 0"		WD	-	-	06	F-4	HM	H1, H1A	J1, J1A, M1	-	-
122	A	3' - 0" x 7' - 0"		WD	-	-	08F	F-1	HM	H1	J1	-	3/4" UNDERCUT
123	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
124	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
125	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
126	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
127	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
128	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
129	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
130	A	3' - 0" x 7' - 0"		WD	-	-	09A	F-6	HM	H1A, M3	J1, J1A, M1	-	-
131	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
132	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
133	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
134	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
135	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
136	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
137	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
138	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
139	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	-
142	A	3' - 0" x 7' - 0"		WD	-	-	09	F-6	HM	H1A, M3	J1, J1A, M1	-	3/4" UNDERCUT
144	E	3' - 0" x 7' - 0"		WD	G4	-	09B	F-9	ALUM	W-H6, M5, M6	J3, M6, W-J6	S3, W-S6	-
144A	A	3' - 0" x 7' - 0"		WD	-	-	08F	F-1	HM	H1	J1	-	3/4" UNDERCUT
144B	E	3' - 0" x 7' - 0"		ALUM	G1	-	01A	W-6	ALUM	M7	J7, J7A	S4 SIM.	-
145	E	3' - 0" x 7' - 0"		WD	G4	-	09B	F-9	ALUM	W-H6, M5, M6	J3, M6, W-J6	S3, W-S6	-
146	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-5	HM	H1, H1A	J1, J1A, M1	-	-
146A	F	23' - 7 3/4" x 9' - 4"			-	-				5/A503	-	-	FOLDING PARTITION DOOR
147	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-5	HM	H1, H1A	J1, J1A, M1	-	-
148	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-5	HM	H1, H1A	J1, J1A, M1	-	-
149	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-5	HM	H1, H1A	J1, J1A, M1	-	-
149A	F	23' - 7 3/4" x 9' - 4"			-	-				5/A503	-	-	FOLDING PARTITION DOOR
150	A	5' - 0" x 7' - 0"	●	WD	-	-	08B	F-1	HM	H1	J1	-	3/4" UNDERCUT
151	A	5' - 0" x 7' - 0"	●	WD	-	-	08H	F-1	HM	H1	J1	-	-
152	A	5' - 0" x 7' - 0"	●	WD	-	-	08H	F-1	HM	H1	J1	-	-
153	A	5' - 0" x 7' - 0"	●	WD	-	-	08H	F-1	HM	H1	J1	-	-
154	A	5' - 0" x 7' - 0"	●	WD	-	-	08H	F-1	HM	H1	J1	-	-
155	A	5' - 0" x 7' - 0"	●	WD	-	-	08B	F-1	HM	H1	J1	-	3/4" UNDERCUT
156	A	3' - 0" x 7' - 0"		WD	-	-	06C	F-4	HM	H1, H1A	J1, J1A, M1	-	-
157	A	3' - 0" x 7' - 0"		WD	-	-	06C	F-1	HM	H1	J1	-	-
158	A	3' - 0" x 7' - 0"		WD	-	-	10	F-1	HM	H1	J1	-	-
159	A	3' - 0" x 7' - 0"		WD	-	-	10	F-1	HM	H1	J1	-	-
160	A	3' - 0" x 7' - 0"		WD	-	-	04	F-1	HM	H1	J1	-	-
161	A	3' - 0" x 7' - 0"		WD	G4	-	06C	F-7	HM	H1, H1A	J1, J1A, M1, M2		-
162	A	6' - 0" x 7' - 0"	●	WD	-	-	08C	F-1	HM	H1	J1	-	
163	E	6' - 0" x 7' - 0"	●	ALUM	G1	-	01	F-8	ALUM	H4	J4A	S4	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
163A	E	6' - 0" x 7' - 0"	●	ALUM	G4	-	02	F-1	ALUM	H4A	17/A602, 18/A602	S3	AUTOMATIC DOOR OPERATOR, AND PUSH BUTTONS
164	A	5' - 0" x 7' - 0"	●	WD	-	-	08B	F-1	HM	H1	J1	-	3/4" UNDERCUT
165	A	5' - 0" x 7' - 0"	●	WD	-	-	08H	F-1	HM	H1	J1	-	3/4" UNDERCUT
166	A	3' - 0" x 7' - 0"		WD	-	-	06A	F-4	HM	H1, H1A	J1, J1A, M1	-	-
167	A	3' - 0" x 7' - 0"		WD	-	-	04	F-1	HM	H1	J1	-	3/4" UNDERCUT
168	A	5' - 0" x 7' - 0"	●	WD	-	-	08B	F-1	HM	H1	J1	-	-
169	D	6' - 0" x 7' - 0"	●	WD	G4	-	03	F-10	HM	H1A, M3	J1, J1A, M1	-	-
169A	F	31' - 3" x 9' - 4"			-	-				5/A503	-	-	FOLDING PARTITION DOOR
170	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-4	HM	H1, H1A	J1, J1A, M1	-	-
170A	F	31' - 3" x 9' - 4"			-	-				5/A503	-	-	FOLDING PARTITION DOOR
171	E	3' - 0" x 7' - 0"		ALUM	G1	-	01A	W-5	ALUM	M7	J6, J6A	S4 SIM.	-
171A	A	3' - 0" x 7' - 0"		WD	-	-	03B	F-4	HM	H1, H1A	J1, J1A, M1	-	-
172A	A	6' - 0" x 7' - 0"	●	WD	-	-	08I	F-1	HM	H1	J1	-	3/4" UNDERCUT
176	A	3' - 0" x 7' - 0"		WD	-	-	06	F-3	HM	H1, H1A	J1, J1A, M1	-	-
177	C	6' - 0" x 7' - 0"	●	WD	G4	-	03A	F-11	HM	H1A, M4	J2, J1A	-	-
180	A	3' - 0" x 7' - 0"		WD	-	-	06	F-3	HM	H1, H1A	J1, J1A, M1	-	-
181	A	3' - 0" x 7' - 0"		WD	-	-	06C	F-6	HM	H1A, M3	J1, J1A, M1	-	-
EXIST. JOIST BEARING													
200		3' - 0" x 3' - 0"			-	-	11	-		-	-	-	ACCESS HATCH
NEW ROOF													
201		3' - 0" x 3' - 0"			-		11	-					ROOF ACCESS HATCH

DOOR SCHEDULE GENERAL NOTES

1. MULTI-LEAF DOORS - SEE DOOR TYPE LEGEND FOR NUMBER & CONFIGURATION OF LEAVES.
2. REFER TO ID001 GENERAL NOTES FOR PAINT FINISH OF DOOR FRAMES.

PROJECT TEAM

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P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

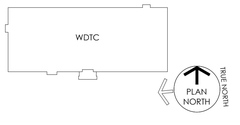
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DOOR SCHEDULE

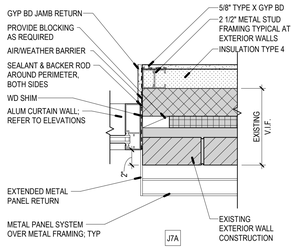
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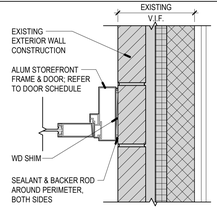
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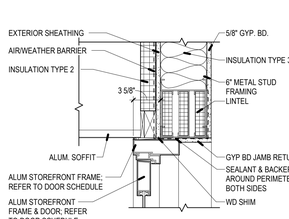
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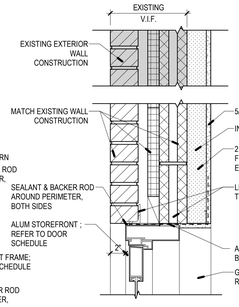
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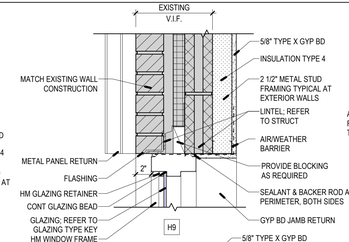
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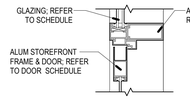
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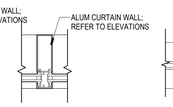
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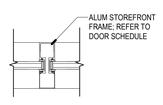
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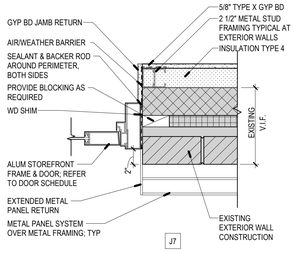
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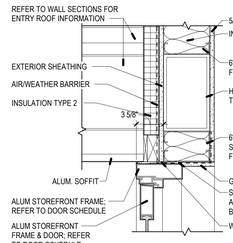
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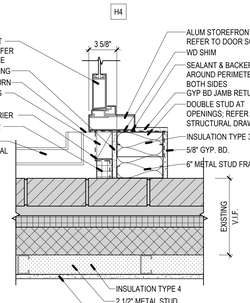
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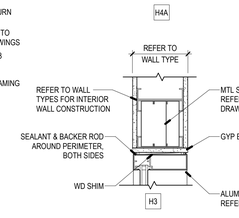
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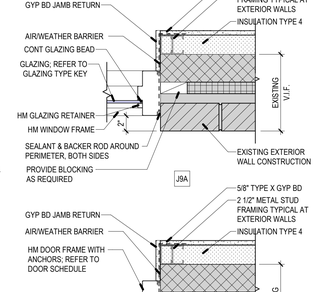
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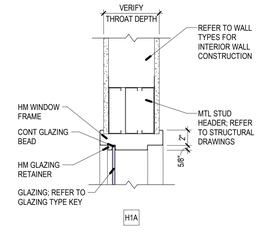
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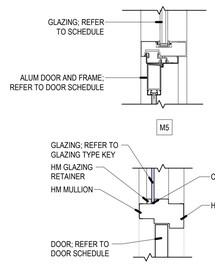
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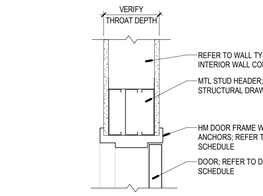


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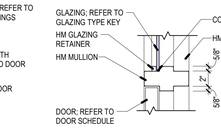


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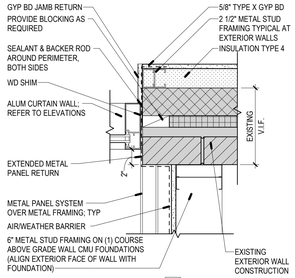
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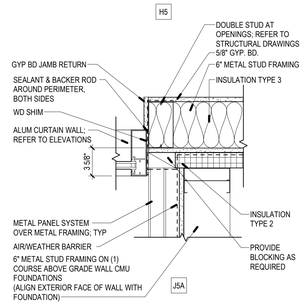
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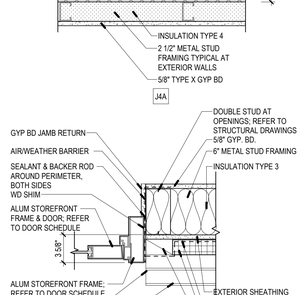
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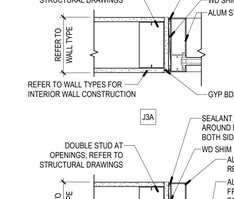
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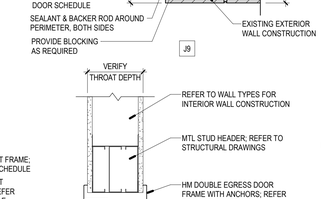
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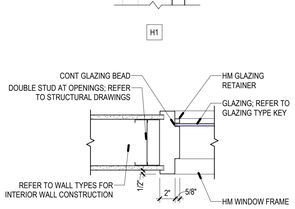
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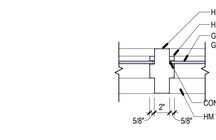
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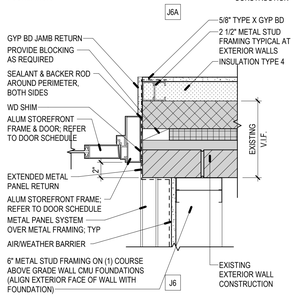


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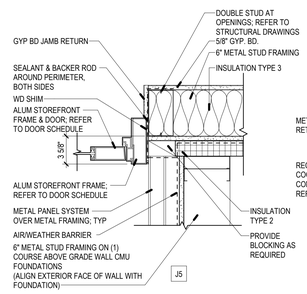


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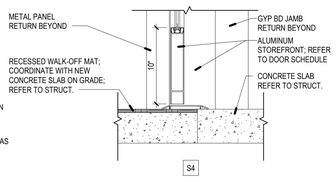
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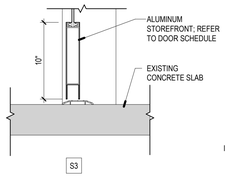
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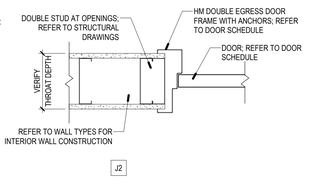
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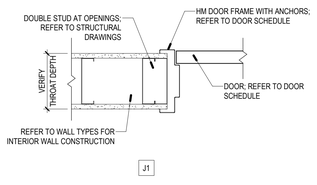
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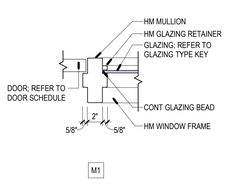
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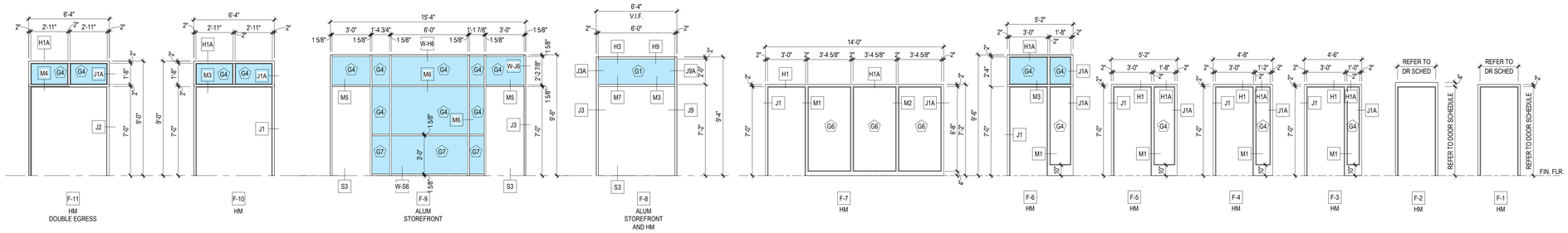


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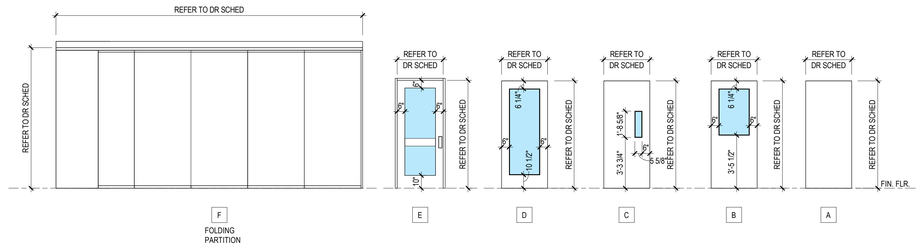


M1

3 A302 DOOR DETAILS
1 1/2" = 1'-0"



2 A302 DOOR FRAME TYPES
1/4" = 1'-0"



1 A302 DOOR TYPES
1/4" = 1'-0"

GLAZING KEYNOTE LEGEND

G1	INSULATED GLASS - TEMPERED - CLEAR
G2	INSULATED GLASS - TEMPERED - SPANDREL
G3	INSULATED GLASS - TEMPERED - FRIT
G4	UNINSULATED GLASS - TEMPERED - CLEAR
G5	UNINSULATED GLASS - TEMPERED - SPANDREL
G6	UNINSULATED GLASS - TEMPERED - SMART FILM
G7	UNINSULATED GLASS - TEMPERED - PLASTIC FILM

GENERAL AIR BARRIER & SEALING SYSTEM NOTES

1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
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Advanced Consulting Engineers P.A.
Structural Engineers
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Suite 100
Frederick, MD | 21703
P: 301.258.8884

Henry Adams, LLC
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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

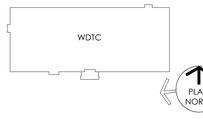
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DOOR ELEVATIONS AND DETAILS

SHEET NUMBER:

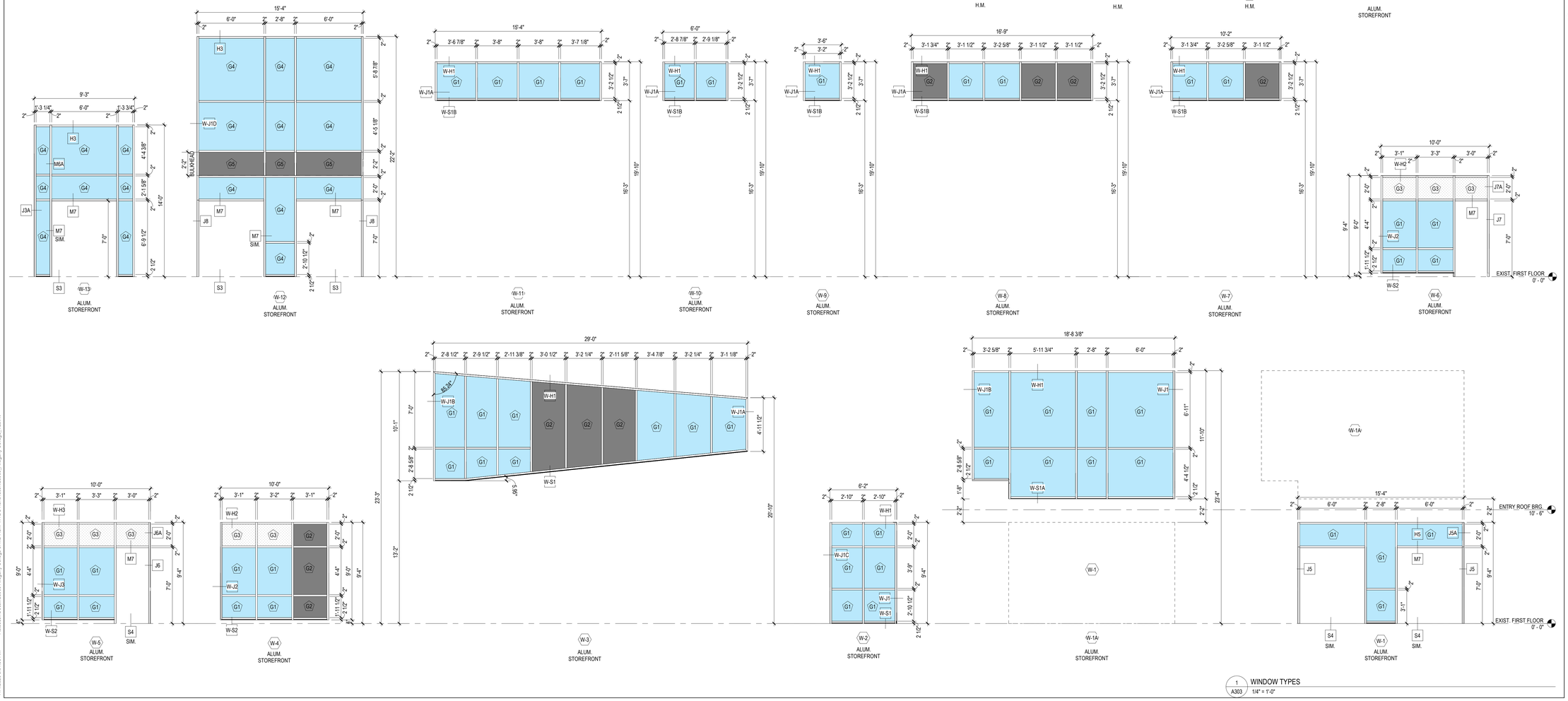
A302

SHEET 28 OF 172

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11/6/2026 9:01:30 AM Autodesk Docs://25909 Allegany College of MD /ACM-WTDC Renovation/25909_Allegany College_V25.rvt

GLAZING KEYNOTE LEGEND	
G1	INSULATED GLASS - TEMPERED - CLEAR
G2	INSULATED GLASS - TEMPERED - SPANDREL
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G5	UNINSULATED GLASS - TEMPERED - SPANDREL
G6	UNINSULATED GLASS - TEMPERED - SMART FILM
G7	UNINSULATED GLASS - TEMPERED - PLASTIC FILM



1 A303 WINDOW TYPES 1/4" = 1'-0"

PROJECT TEAM

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Signature_____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

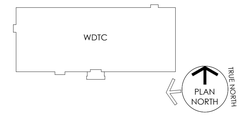
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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DRAWN BY: NHA
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JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

WINDOW ELEVATIONS

SHEET NUMBER:

A303

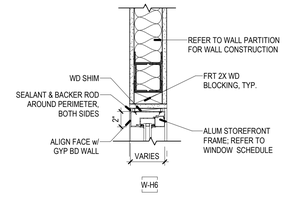
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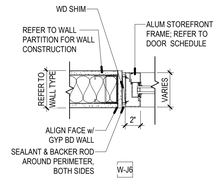
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

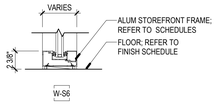
1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.



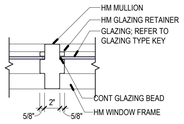
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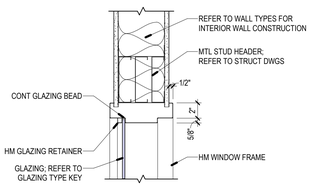
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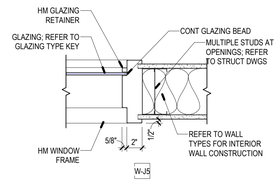
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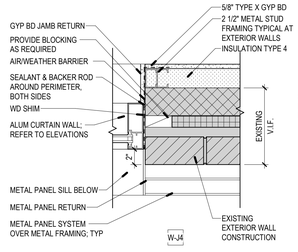
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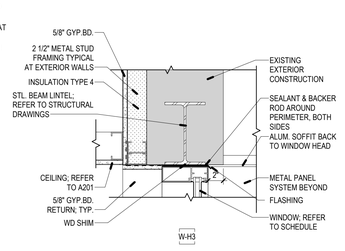
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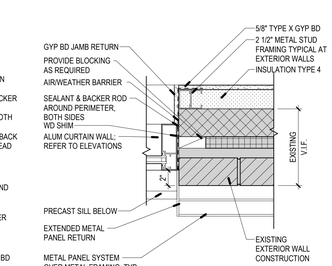
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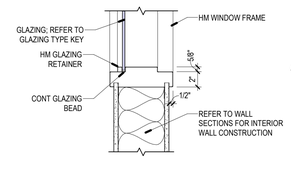
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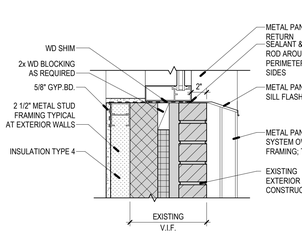
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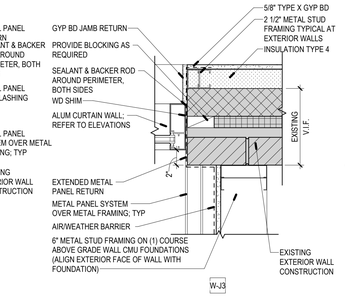
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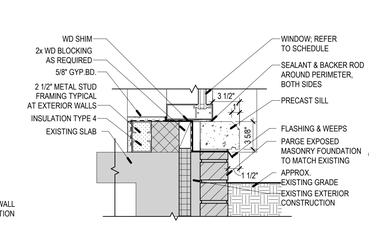
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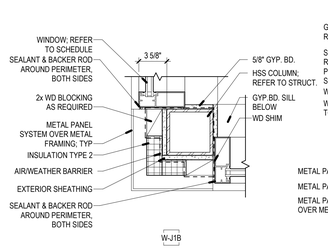
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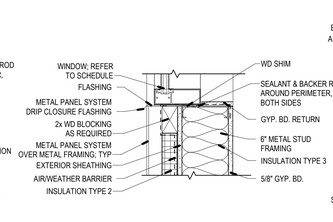
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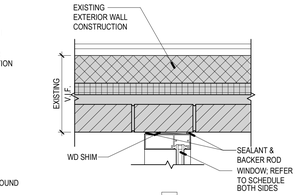
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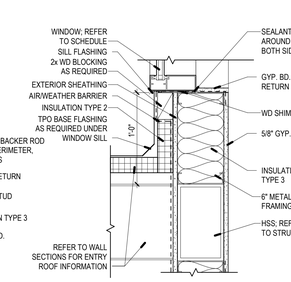
W-J1B



W-S1B

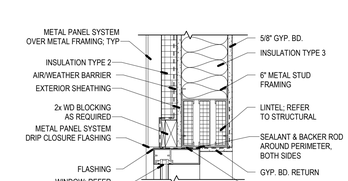


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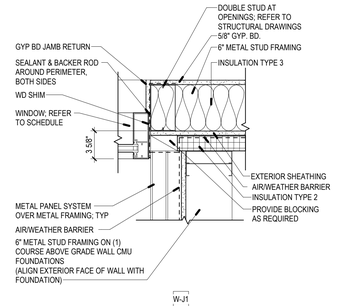


W-S1A

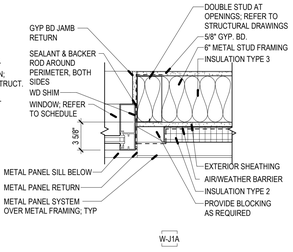
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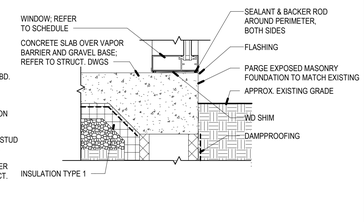
W-H1



W-J1



W-J1A



W-S1

1 A304 WINDOW DETAILS
1 1/2" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC. ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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Suite 400
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Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

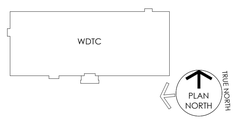
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
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WINDOW DETAILS

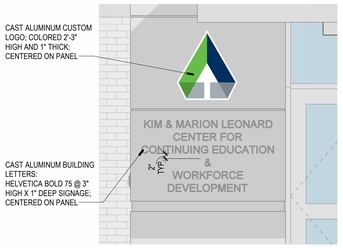
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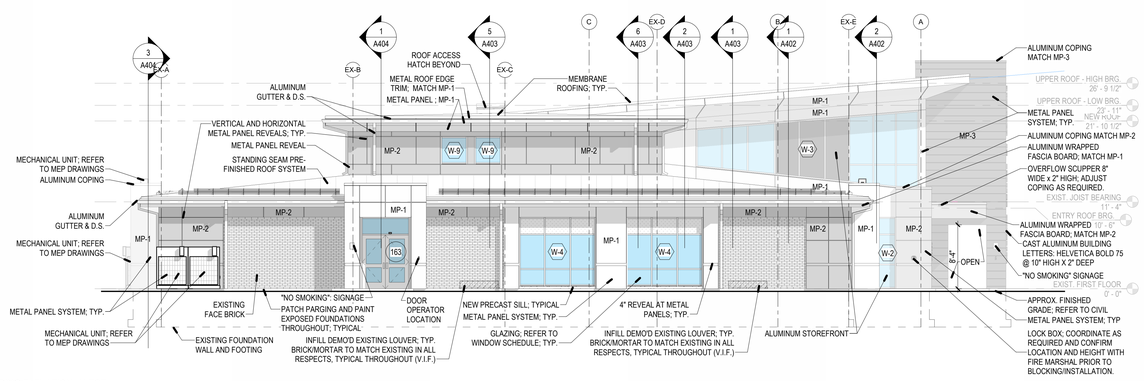
SHEET 30 OF 172

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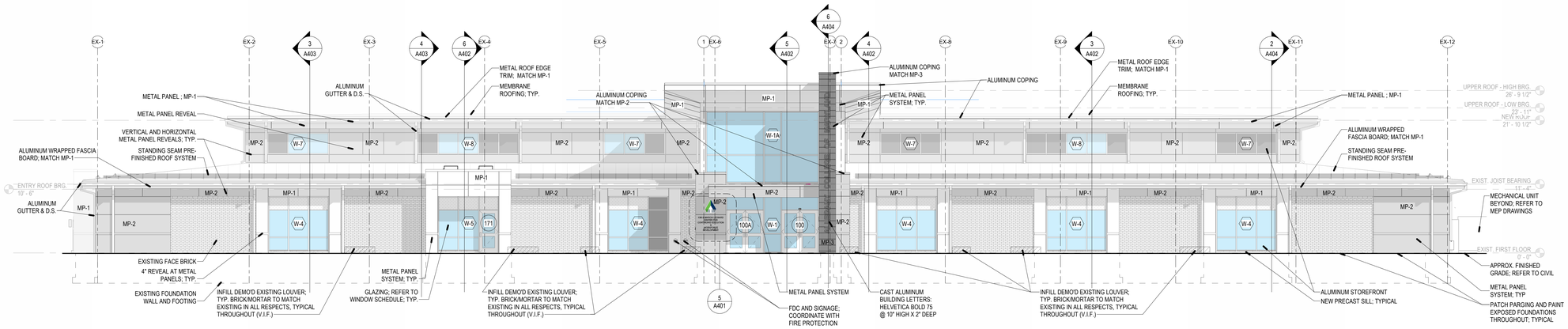
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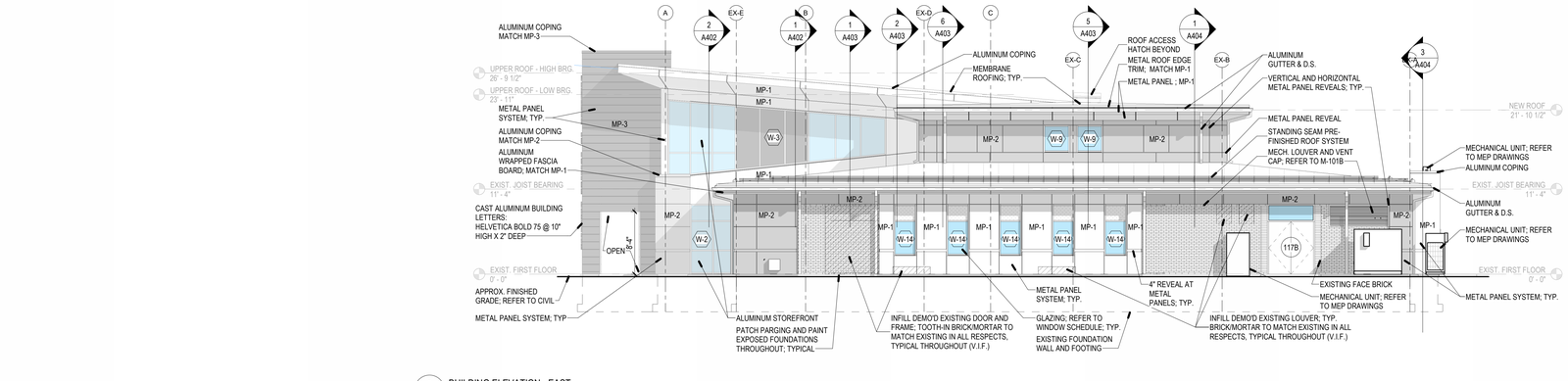
5 A401 ENLARGED SIGNAGE ELEVATION
1/2" = 1'-0"



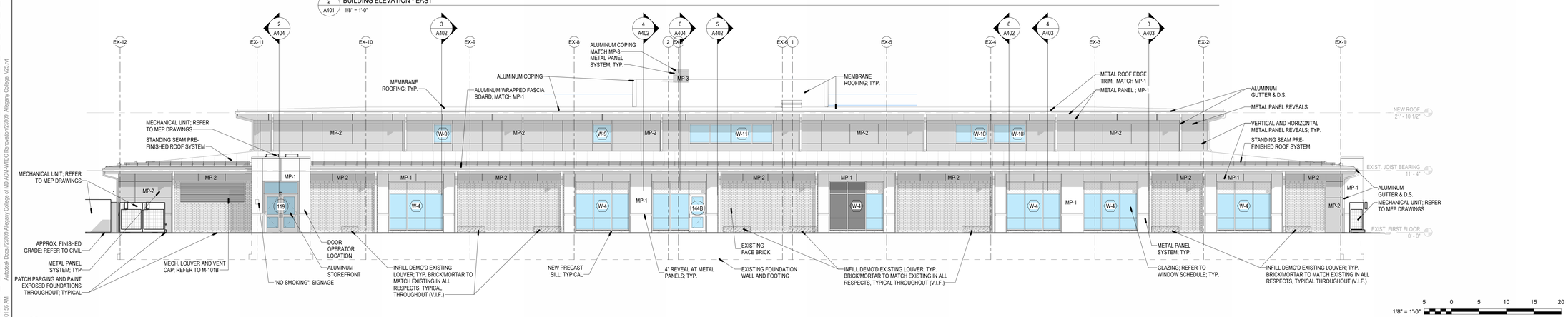
4 A401 BUILDING ELEVATION - WEST
1/8" = 1'-0"



3 A401 BUILDING ELEVATION - SOUTH
1/8" = 1'-0"



2 A401 BUILDING ELEVATION - EAST
1/8" = 1'-0"



1 A401 BUILDING ELEVATION - NORTH
1/8" = 1'-0"

1/8" = 1'-0" SCALE 5 0 5 10 15 20 FEET

PANEL FACADE SYSTEMS

- MP-1 ALUMINUM PANEL - WHITE
- MP-2 ALUMINUM PANEL - LIGHT GREY
- MP-3 ALUMINUM PANEL - DARK GREY

EXTERIOR ELEVATIONS GENERAL NOTES

1. INFILL ALL ABANDONED OPENINGS IN EXTERIOR MASONRY WALLS AS REQUIRED WITH LIKE MATERIALS.
2. POWERWASH EXISTING BRICK/MORTAR SURFACES TO BE EXPOSED, REPOINT DAMAGED MORTAR AS REQUIRED TO MATCH EXISTING.
3. POWERWASH MISCELLANEOUS EXTERIOR SURFACES TO BE EXPOSED, PATCH AS REQUIRED AND PREPARE FOR NEW PAINT OR FINISH.
4. POWERWASH EXISTING PARGED FOUNDATION TO BE EXPOSED, PATCH AS REQUIRED AND PREPARE FOR NEW PAINT.
5. ALL NEW AND PATCHED BRICK/MORTAR TO BE EXPOSED SHALL MATCH EXISTING IN ALL RESPECTS, REUSED SALVAGED BRICK WHERE POSSIBLE.
6. REFER TO DOOR SCHEDULE FOR EXISTING EXTERIOR DOORS TO REMAIN.
7. PARGE EXPOSED NEW MASONRY PIER FOUNDATIONS AS REQUIRED
8. ALL WINDOW HEADS, JAMB RETURNS, SOFFITS, FLASHING AND TRIM ASSOCIATED WITH THE ACM PANEL SYSTEMS SHALL BE ACM PANEL/TRIM WITH COLORS TO MATCH ADJACENT PANELS.
9. CONTRACTOR TO CLOSELY COORDINATE ALL WIDTHS OF NEW STOREFRONT SYSTEMS SURROUNDED BY EXTERIOR METAL PANEL SYSTEMS, SPECIFICALLY RELATED TO THE DEPTH OF PANEL ATTACHMENT AT ALL JAMB RETURNS TO STOREFRONT. ADJUST AND VERIFY FINAL WIDTHS OF STOREFRONT SYSTEMS AS REQUIRED TO ALLOW MINIMUM 1 1/2" EXPOSURE OF OUTSIDE JAMBS OF ALUMINUM STOREFRONT. COORDINATE MINOR INFILL AND FINISH ADJUSTMENTS AS REQUIRED AT INTERIOR WINDOW JAMBS.

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

TRIAD ENGINEERING, INC.
1075 D Sherman Ave
Hagerstown, MD | 21740
P: 301.797.6400 | F: 301.797.2424

Advanced Consulting Engineers P.A.
Structural Engineers
5235 Westview Drive
Suite 100
Frederick, MD | 21703
P: 301.258.8884

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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

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Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

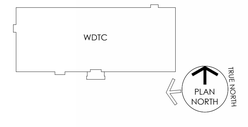
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
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	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

EXTERIOR ELEVATIONS

SHEET NUMBER:

A401

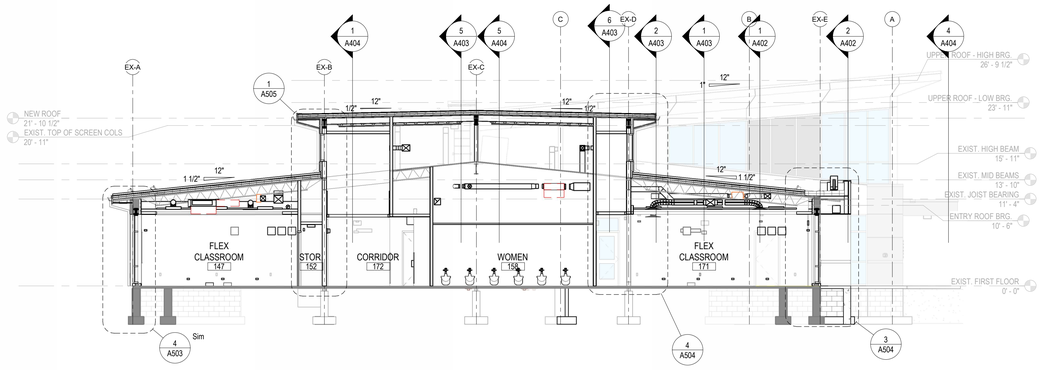
SHEET 31 OF 172

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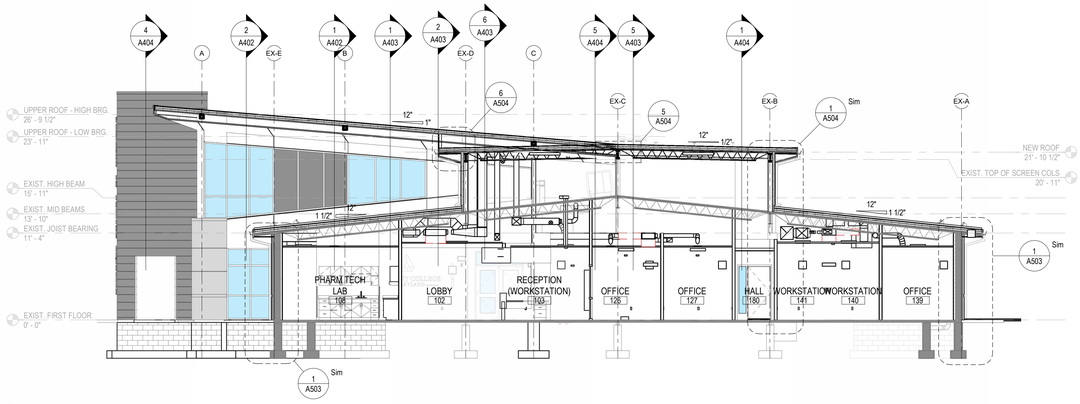
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

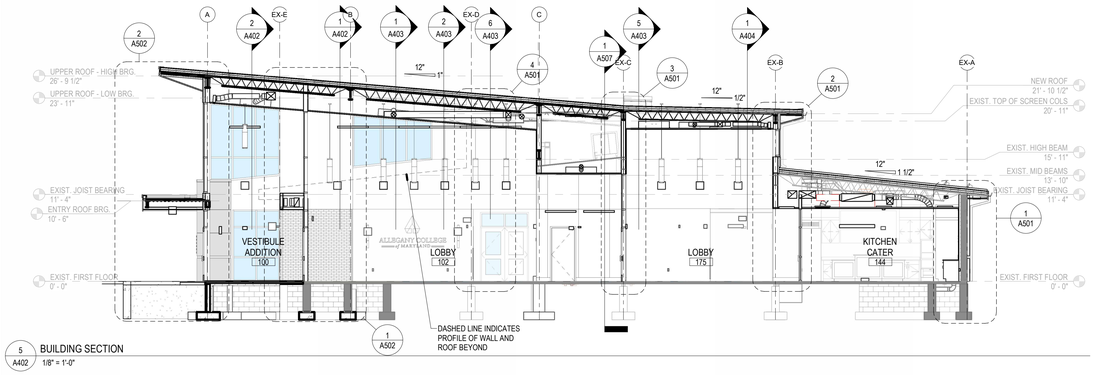
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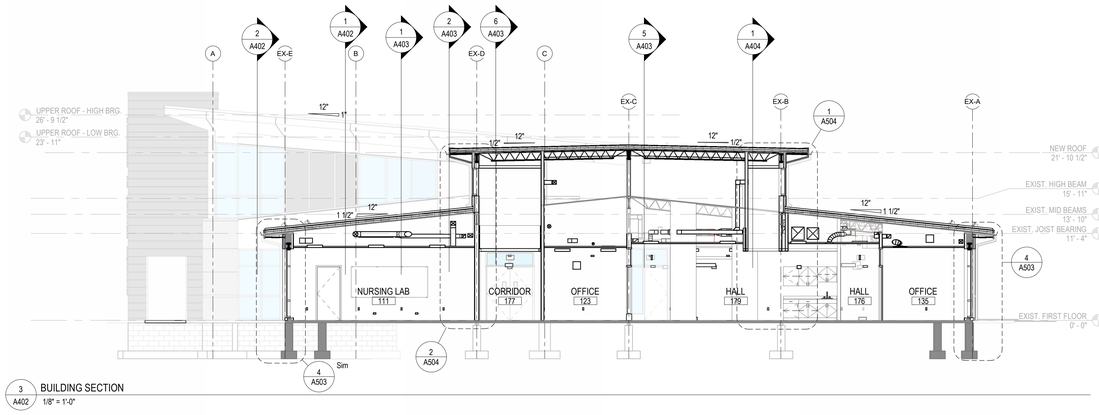
6 A402 BUILDING SECTION
1/8" = 1'-0"



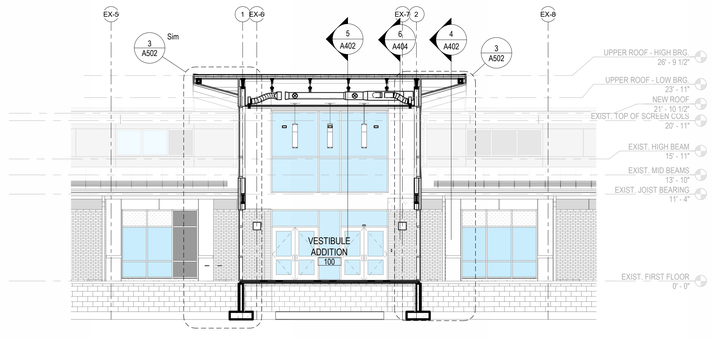
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1/8" = 1'-0"



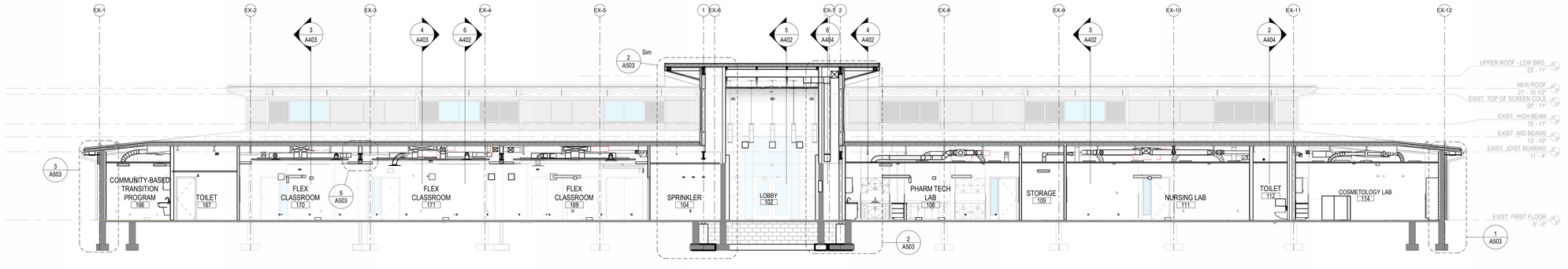
5 A402 BUILDING SECTION
1/8" = 1'-0"



3 A402 BUILDING SECTION
1/8" = 1'-0"



2 A402 BUILDING SECTION
1/8" = 1'-0"



1 A402 BUILDING SECTION
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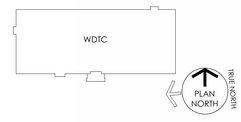
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JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

A402

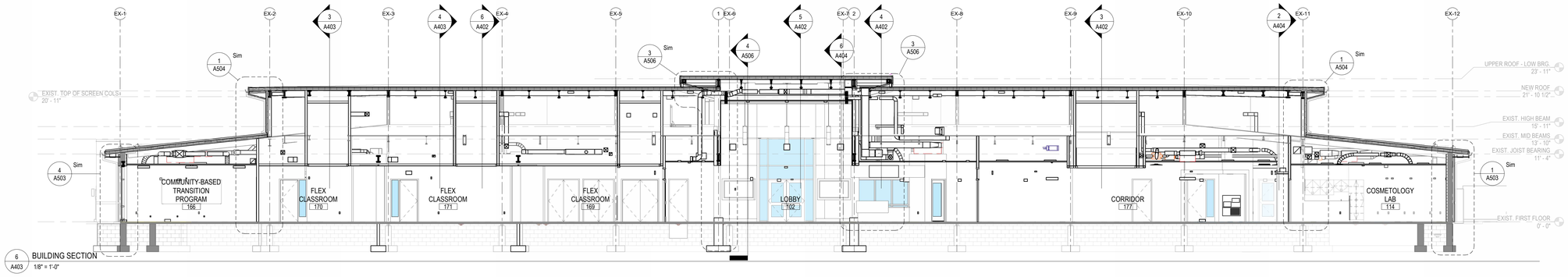
SHEET 32 OF 172

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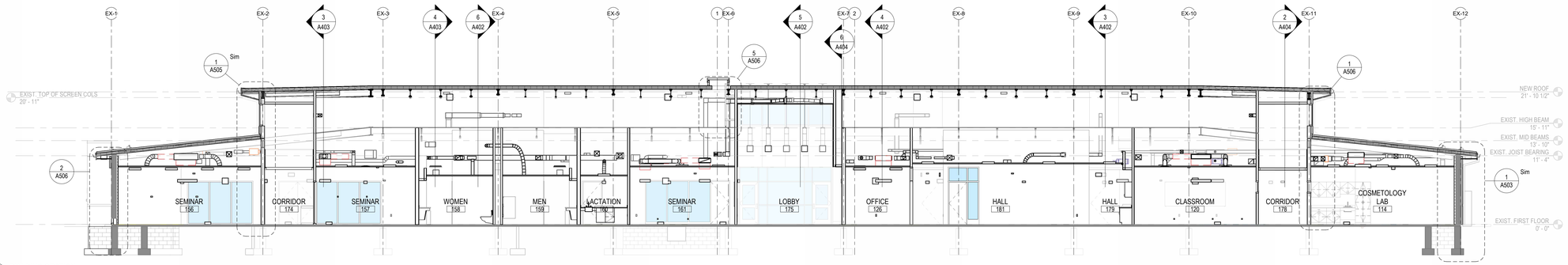
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

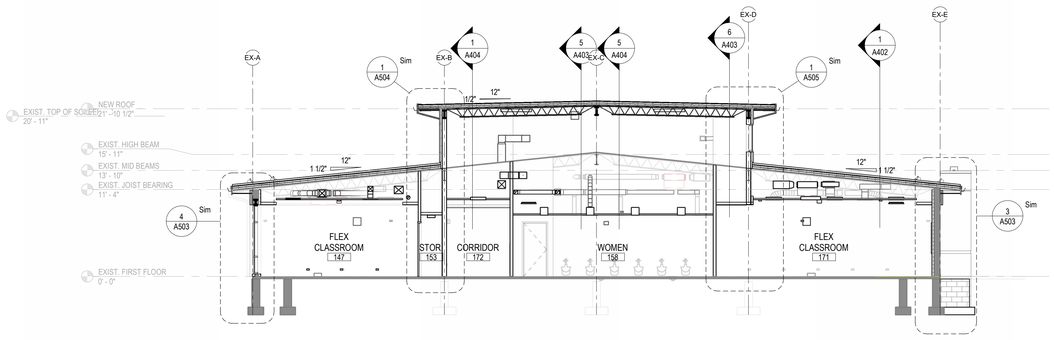
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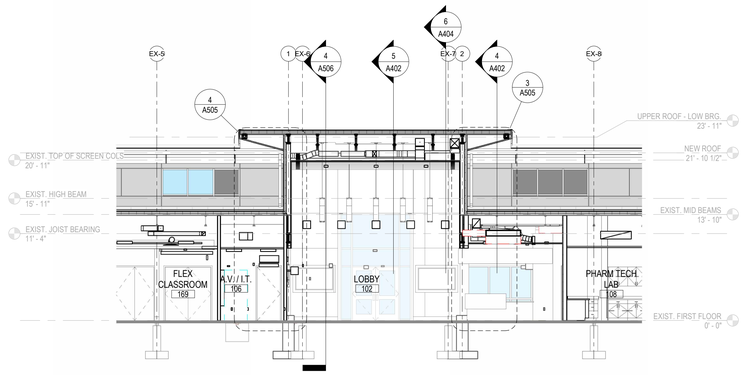
6 A403 BUILDING SECTION
1/8" = 1'-0"



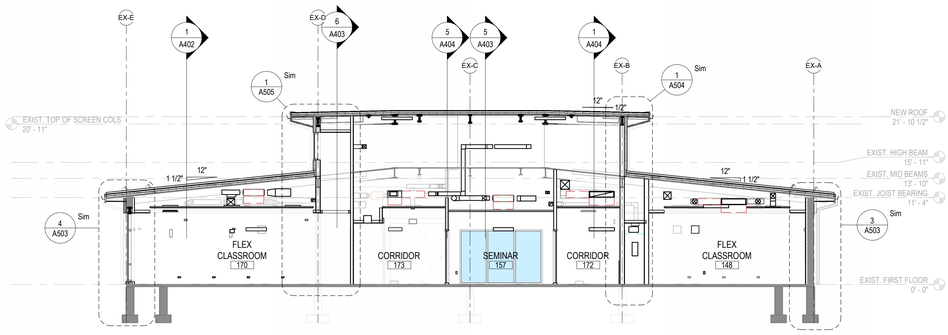
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1/8" = 1'-0"



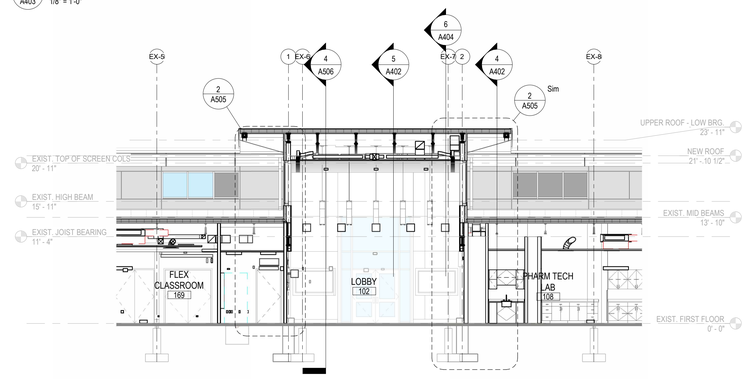
4 A403 BUILDING SECTION
1/8" = 1'-0"



2 A403 BUILDING SECTION
1/8" = 1'-0"



3 A403 BUILDING SECTION
1/8" = 1'-0"



1 A403 BUILDING SECTION
1/8" = 1'-0"

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

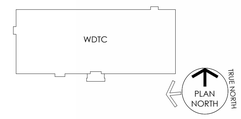
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

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Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

A403

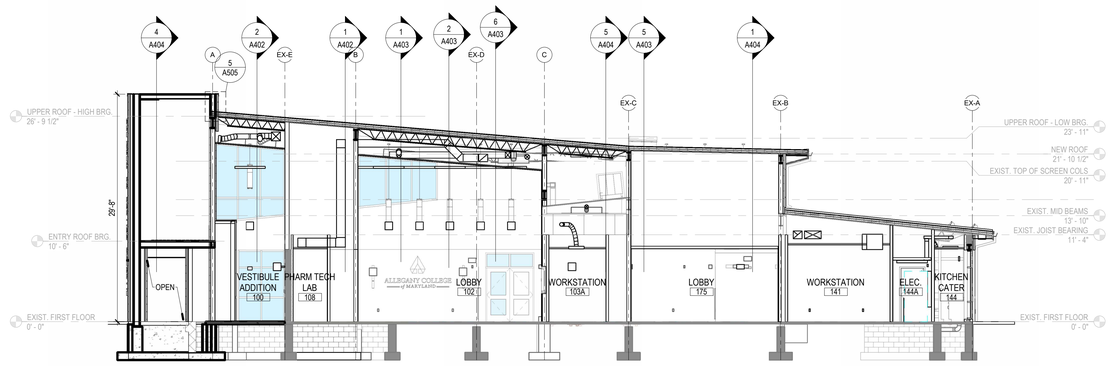
SHEET 33 OF 172

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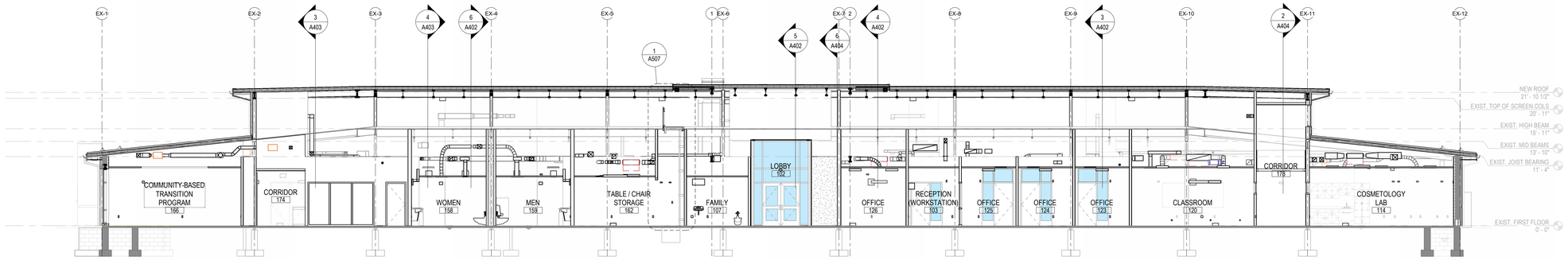
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

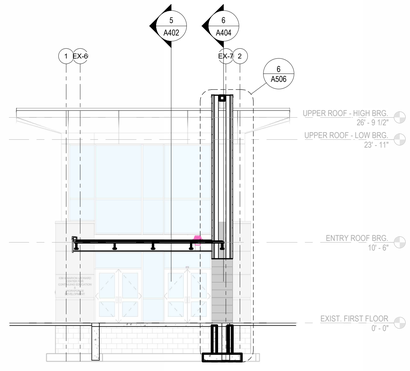
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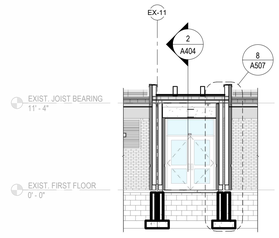
6 A404 BUILDING SECTION
1/8" = 1'-0"



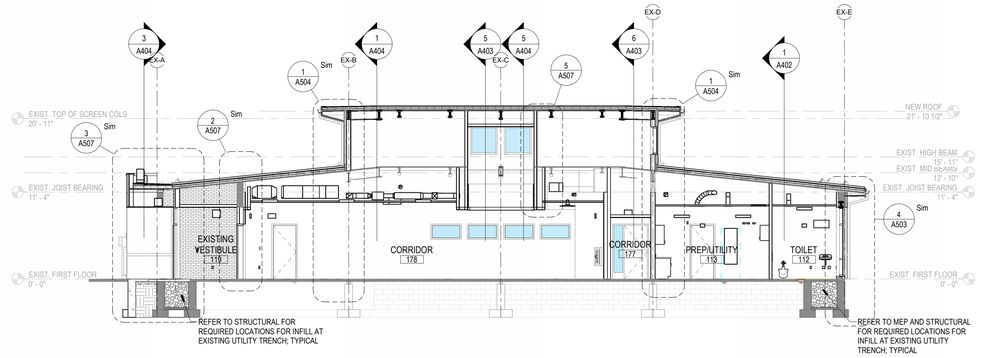
5 A404 BUILDING SECTION
1/8" = 1'-0"



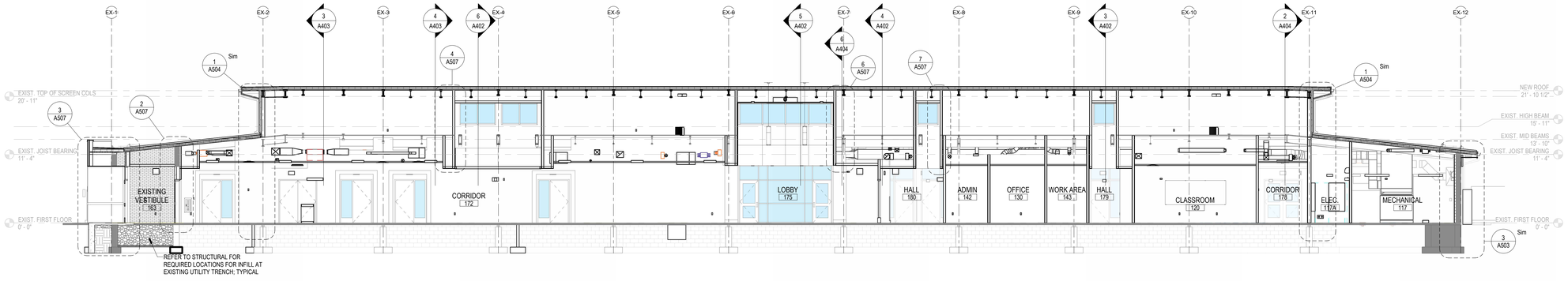
4 A404 BUILDING SECTION
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1/8" = 1'-0"



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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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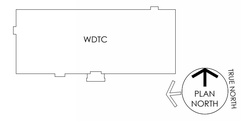
12401 WILLOWBROOK RD, SE
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CHK'D BY: NHA

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SHEET TITLE:

BUILDING SECTIONS

SHEET NUMBER:

A404

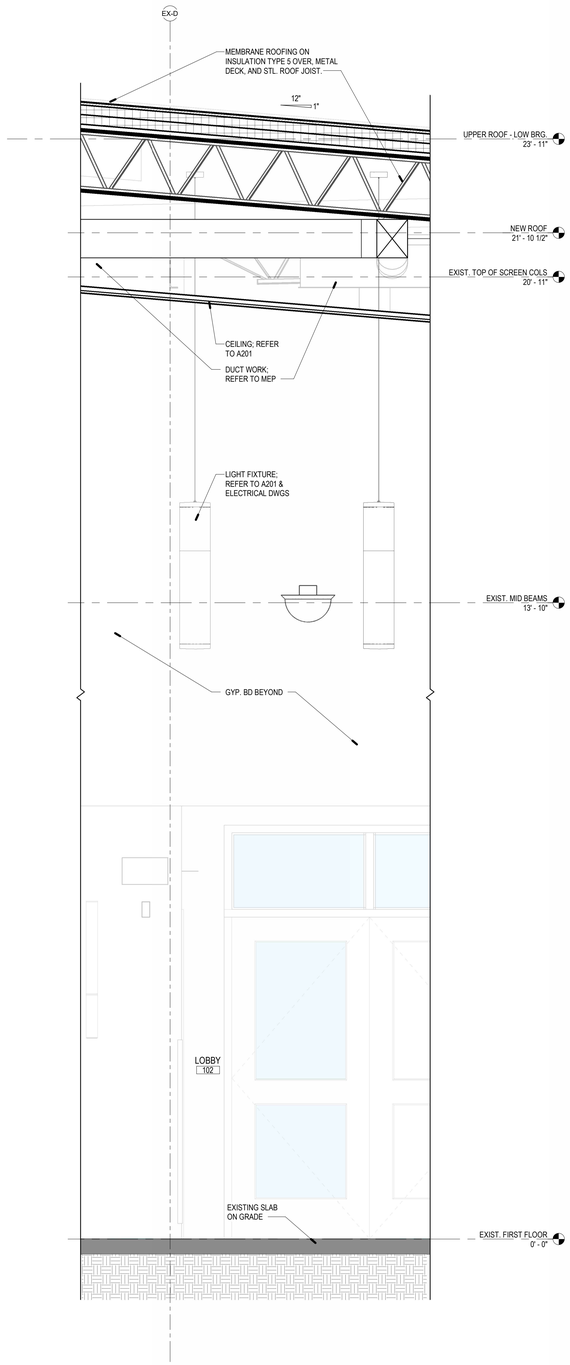
SHEET 34 OF 172

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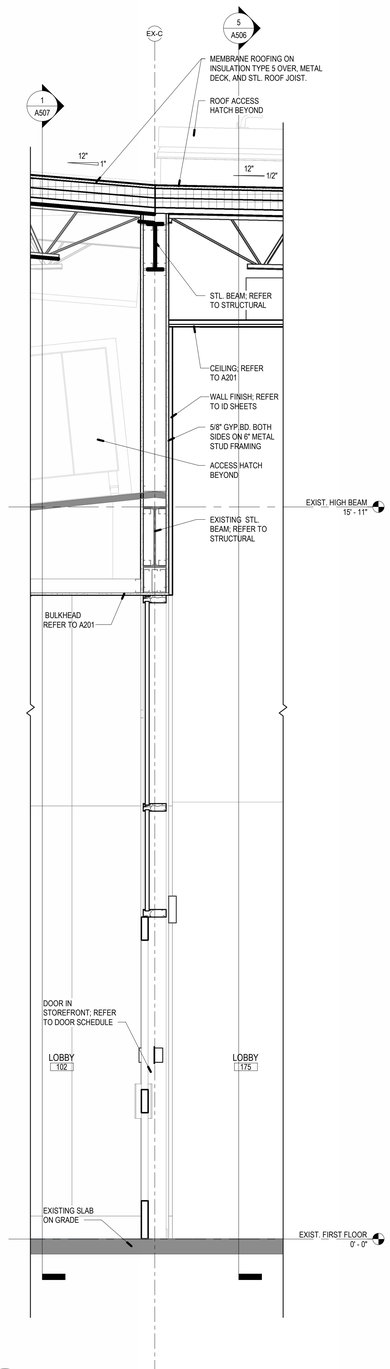
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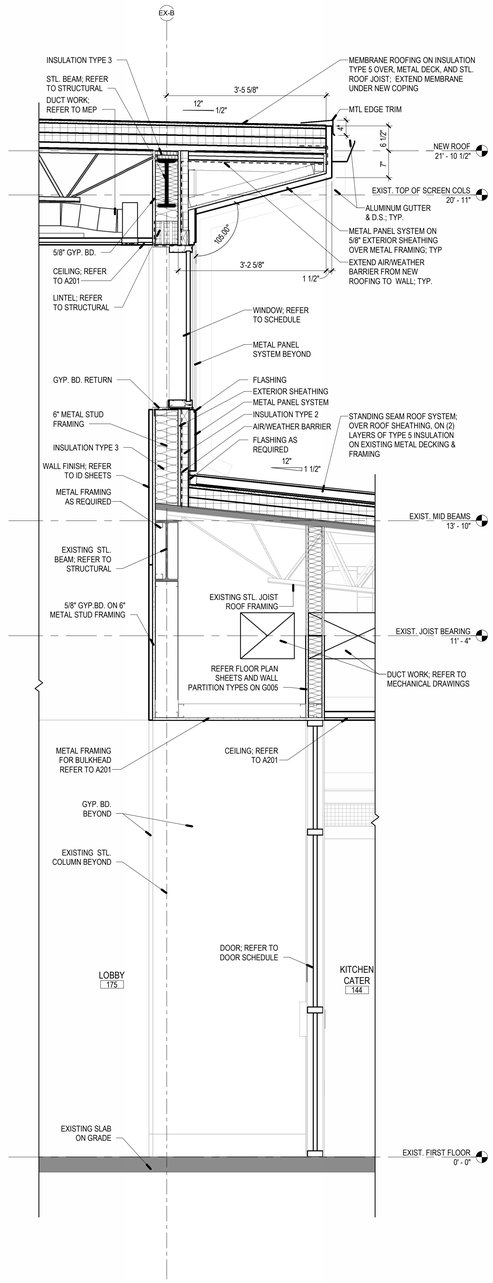
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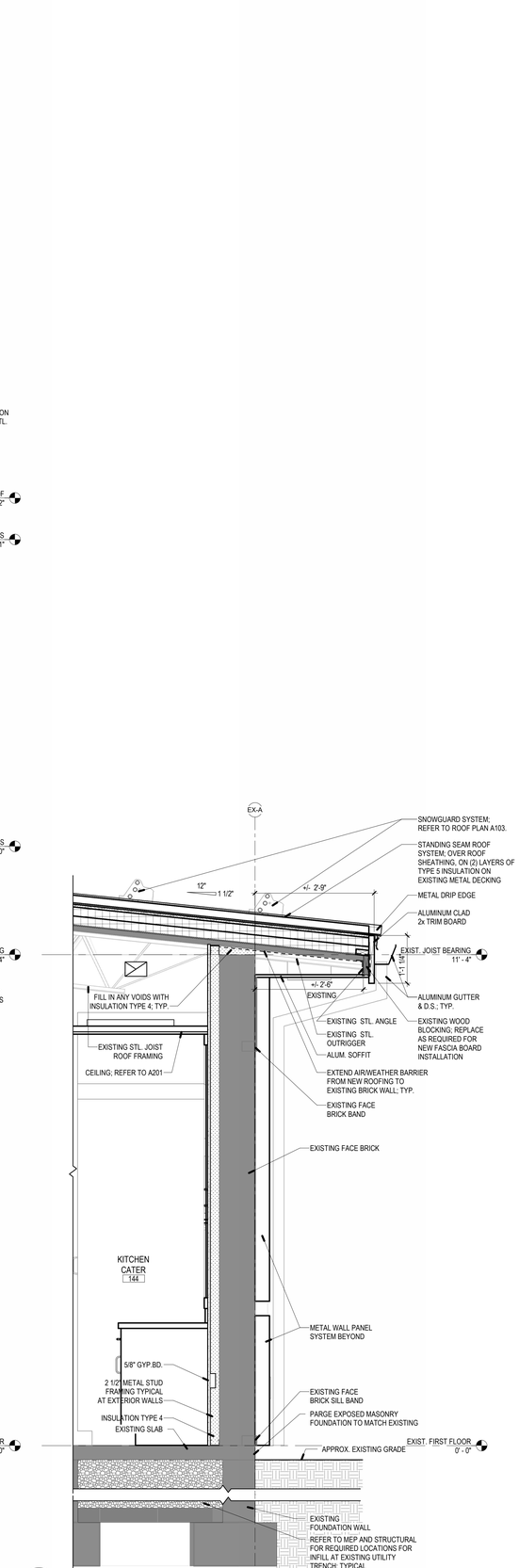
4 / A501 WALL SECTION
3/4" = 1'-0"



3 / A501 WALL SECTION
3/4" = 1'-0"



2 / A501 WALL SECTION
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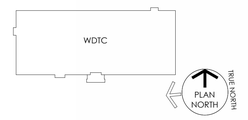
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CHK'D BY:	NHA

JOB NUMBER:	25909 - DGS# CC-10-MC25-488
ISSUE DATE:	11/06/2026

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

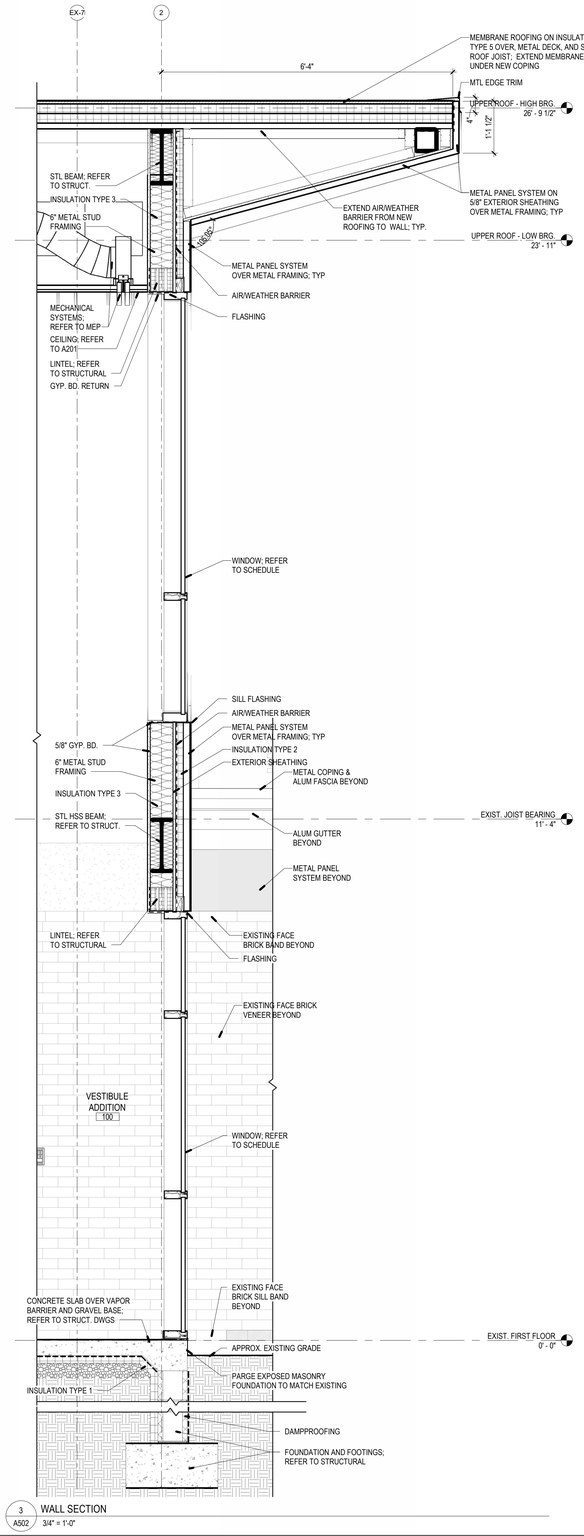
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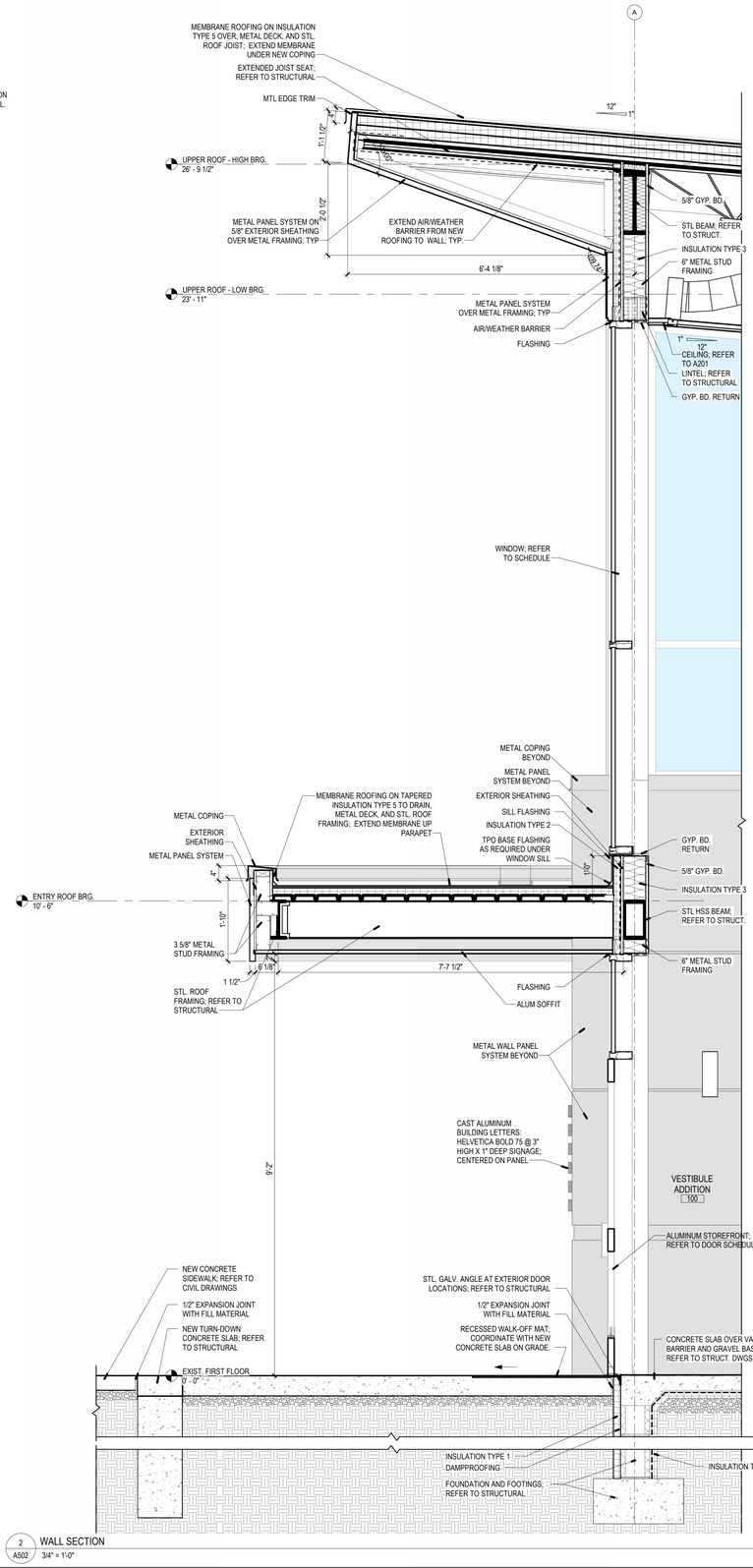
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

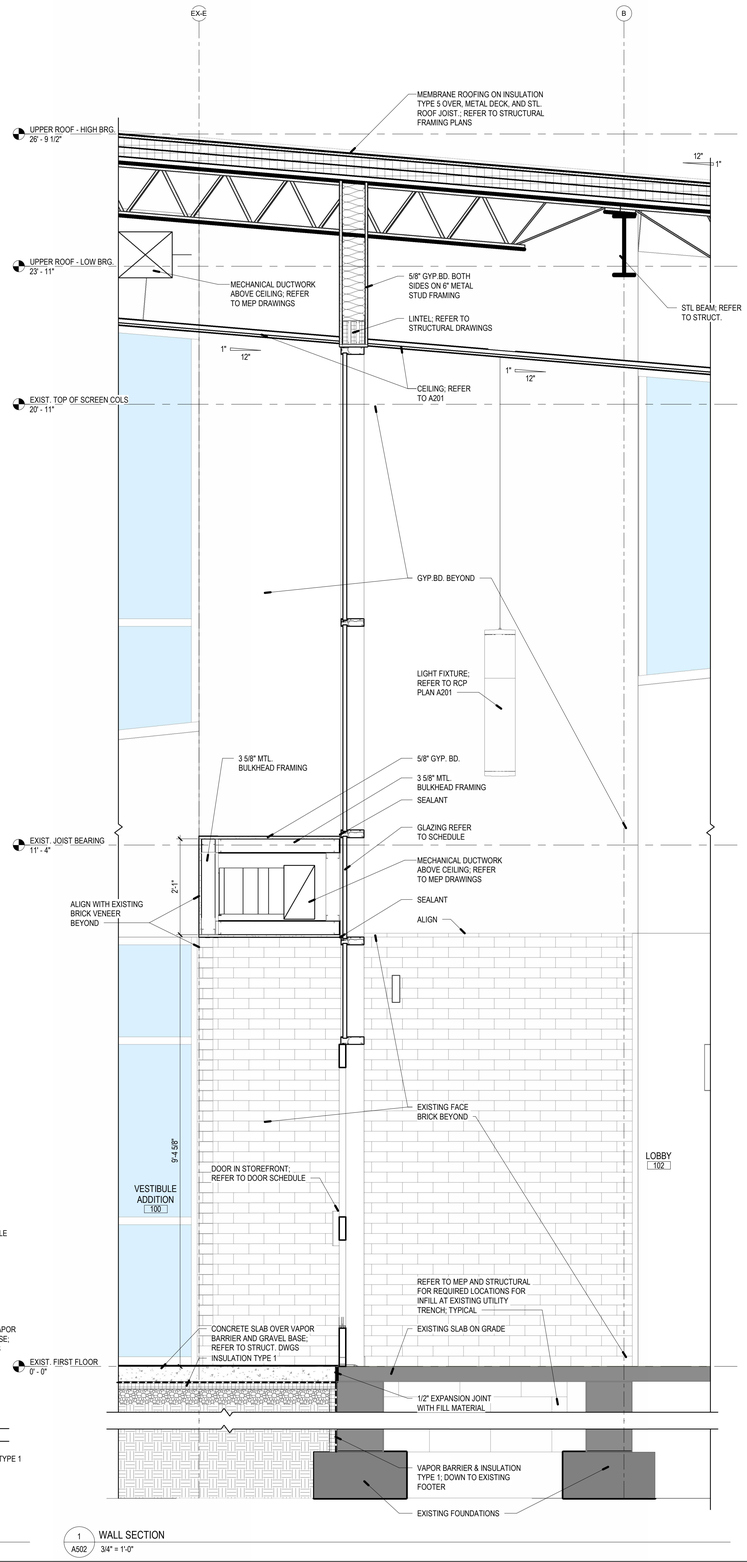
1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.



3 / A502 WALL SECTION
3/4" = 1'-0"



2 / A502 WALL SECTION
3/4" = 1'-0"



1 / A502 WALL SECTION
3/4" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

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Structural Engineers
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Signature _____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

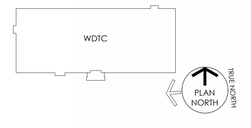
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	DESCRIPTION:	DATE:
	DESIGN DEVELOPMENT	05/01/2026
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	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A502

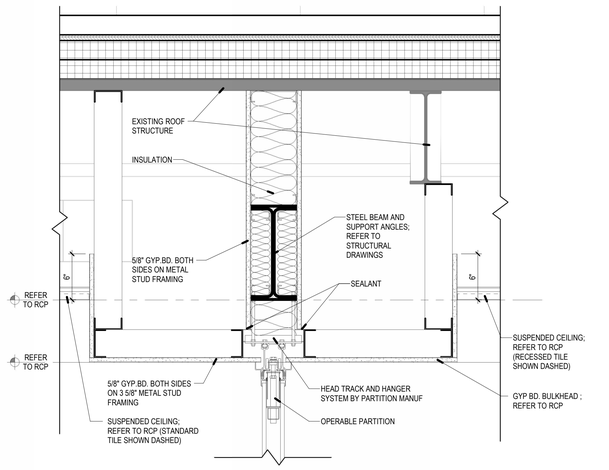
SHEET 36 OF 172

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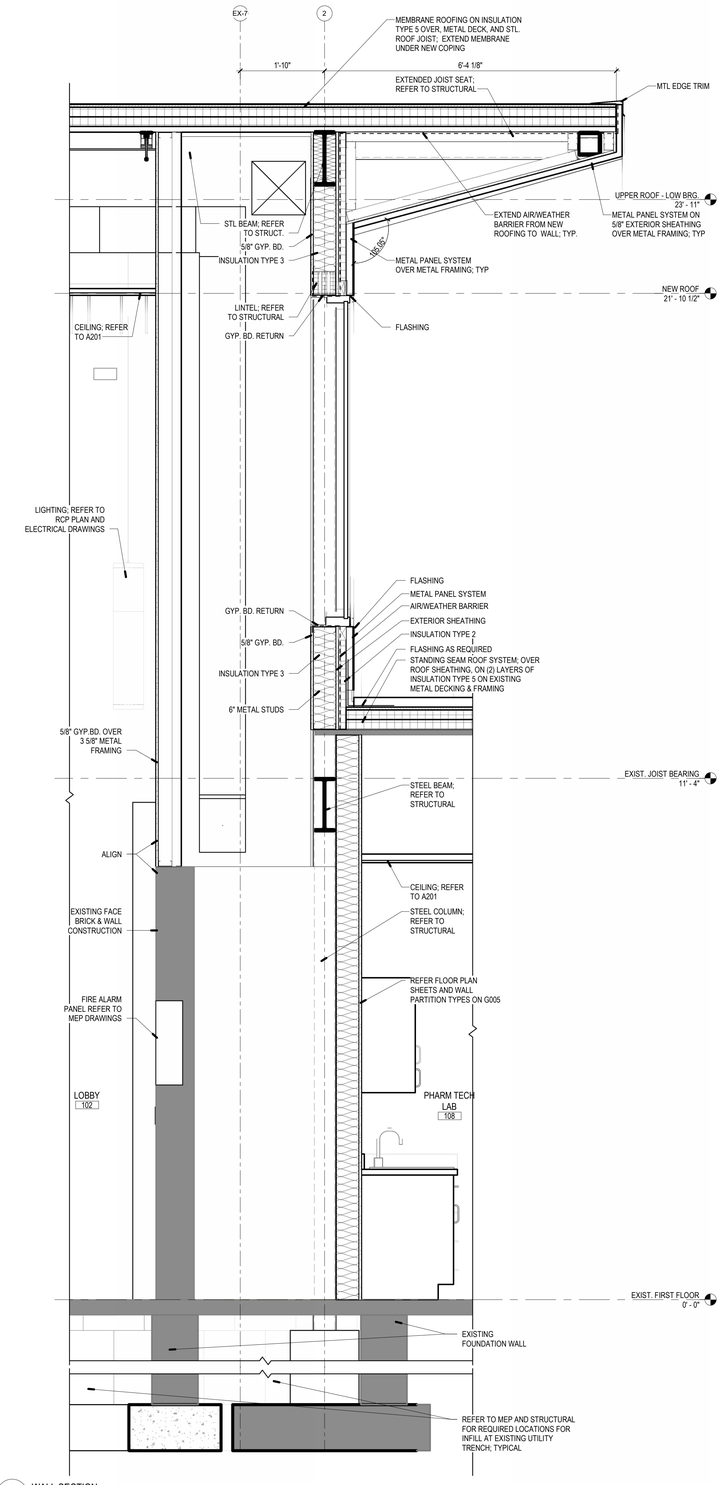
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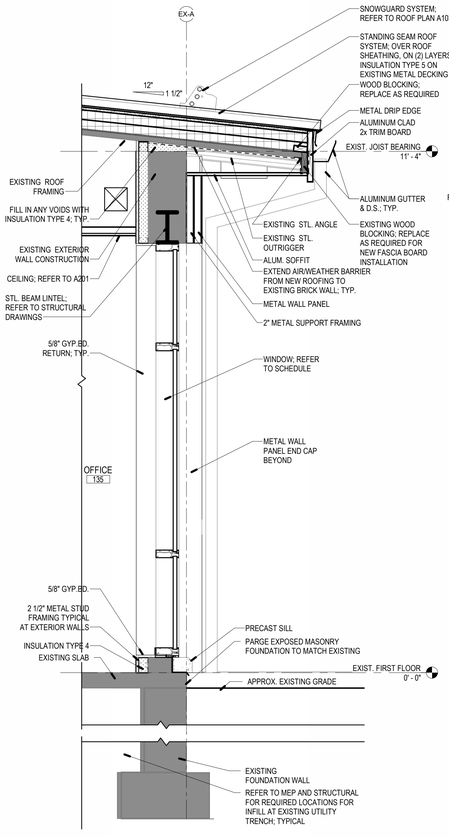
GENERAL AIR BARRIER & SEALING SYSTEM NOTES

1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.

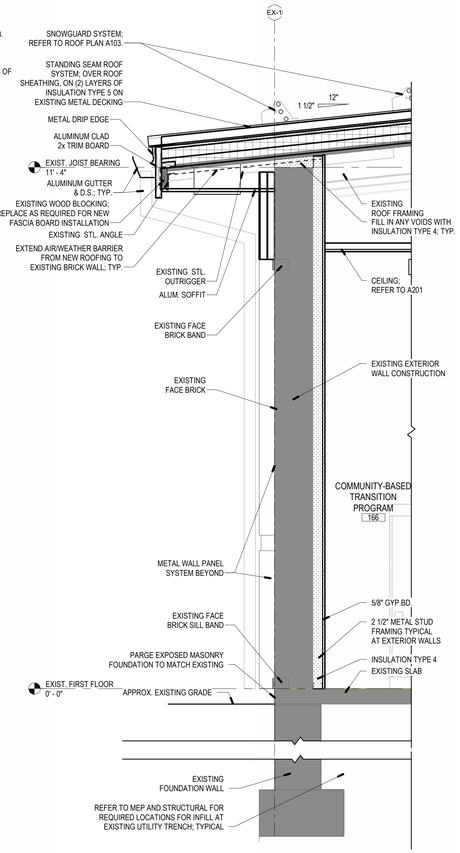


5 / A503 FOLDING PARTITION MOUNTING DETAIL
1 1/2" = 1'-0"

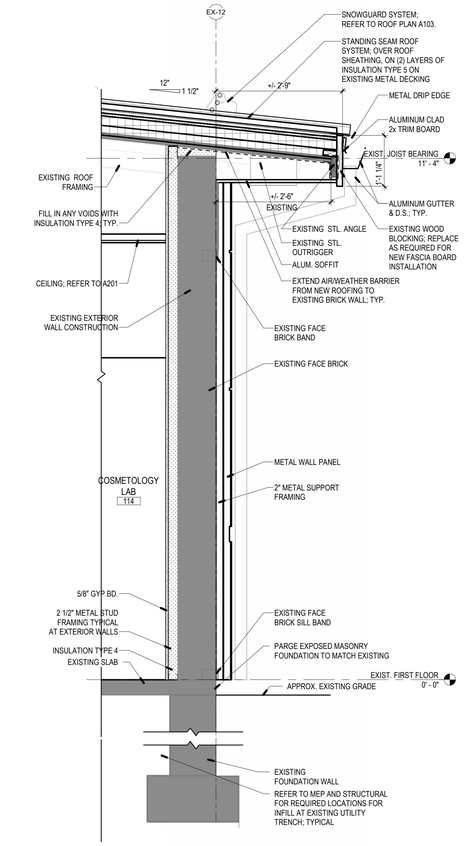




4 / A503 WALL SECTION
3/4" = 1'-0"



3 / A503 WALL SECTION
3/4" = 1'-0"



1 / A503 WALL SECTION
3/4" = 1'-0"

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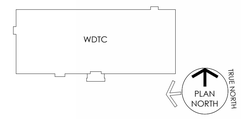
12401 WILLOWBROOK RD, SE
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ISSUE DATE:	**11/06/2026**

SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

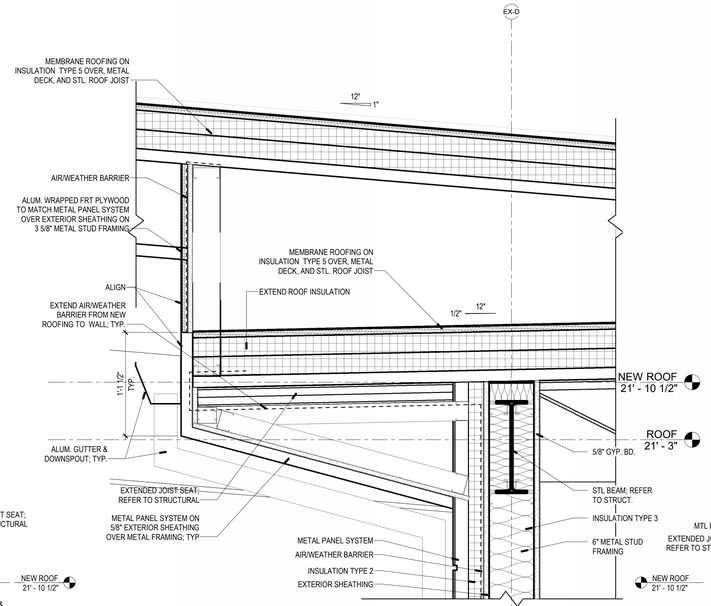
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SHEET 37 OF 172

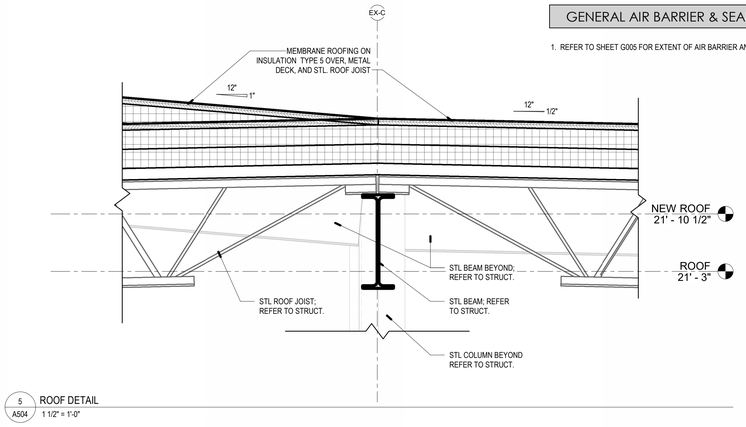
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

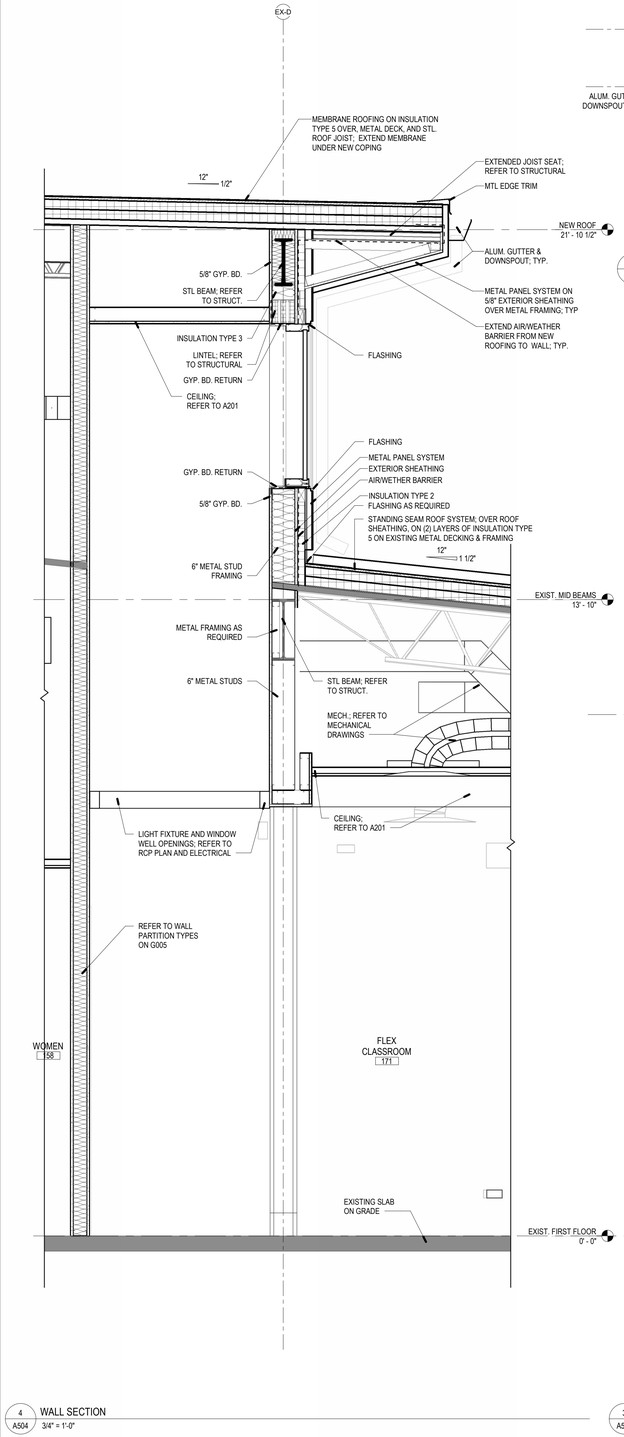
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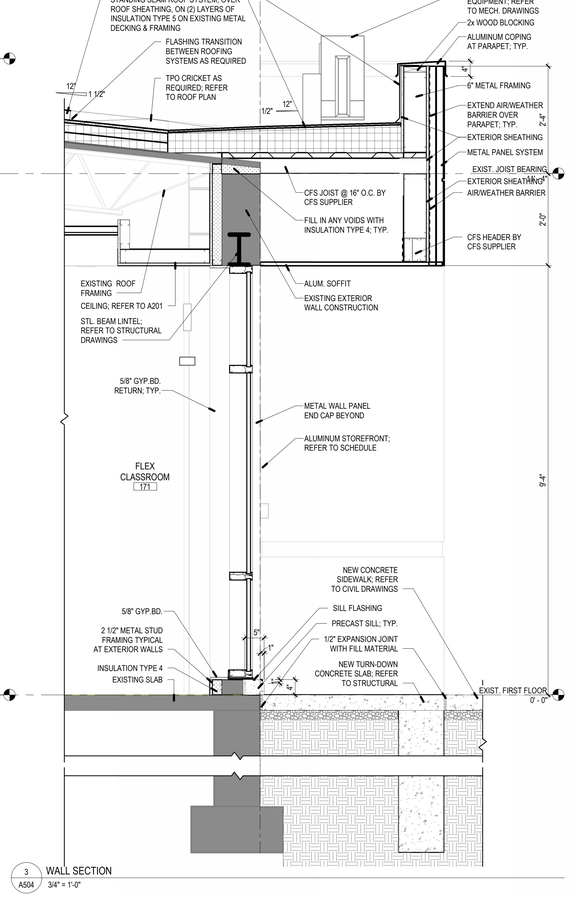
6 A504 EAVE DETAIL @ ALUM CLAD PLYWOOD
1 1/2" = 1'-0"



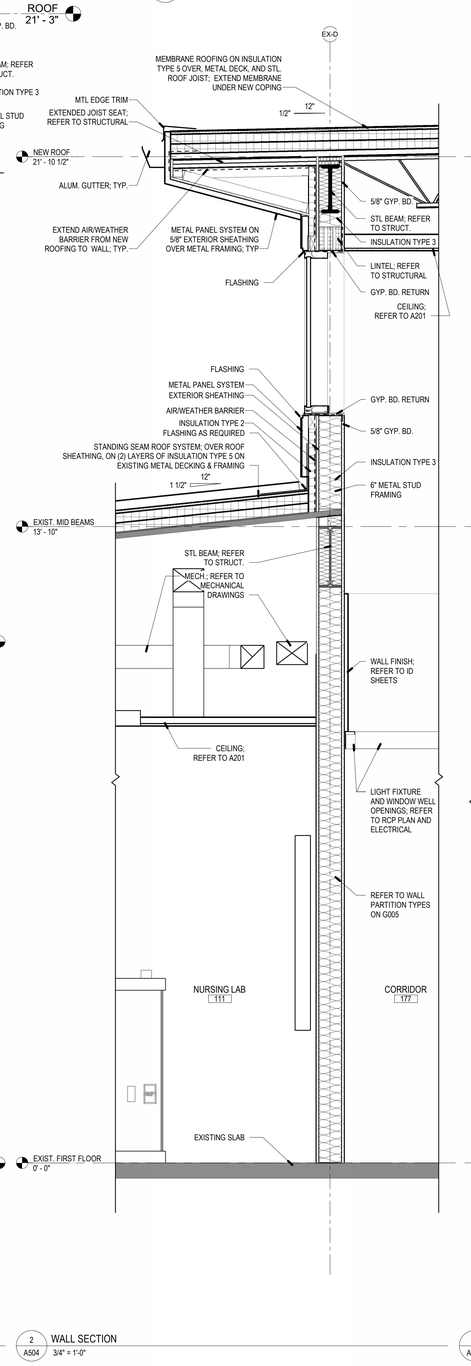
5 A504 ROOF DETAIL
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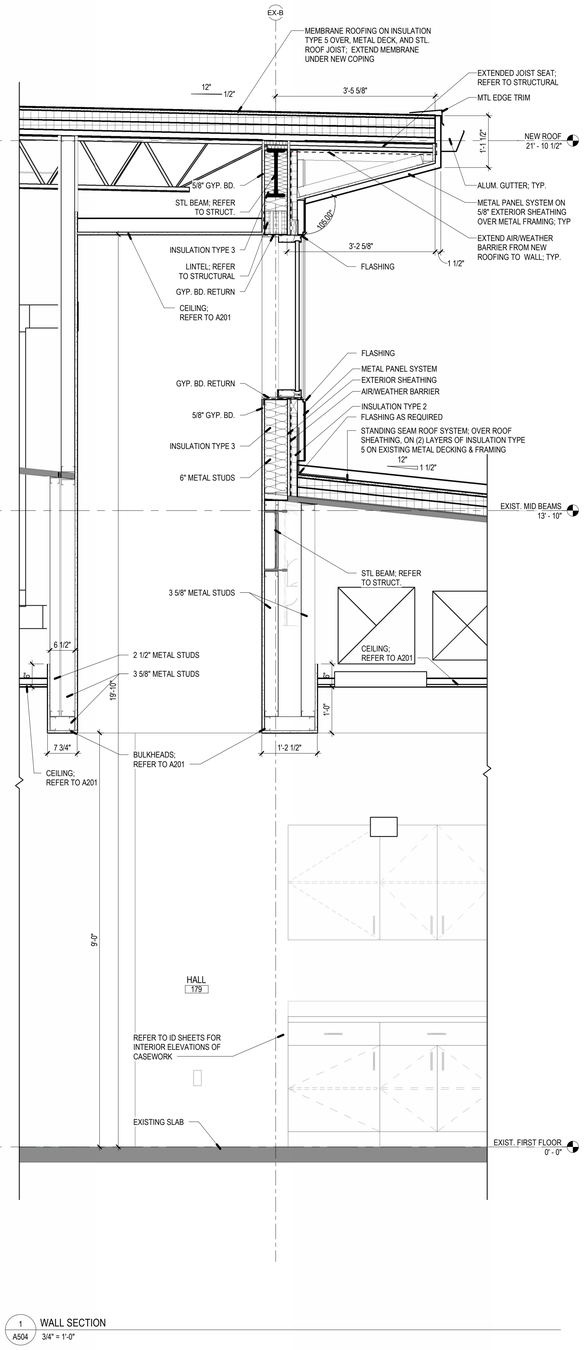
4 A504 WALL SECTION
3/4" = 1'-0"



3 A504 WALL SECTION
3/4" = 1'-0"



2 A504 WALL SECTION
3/4" = 1'-0"



1 A504 WALL SECTION
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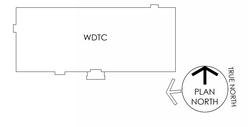
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

WALL SECTIONS

SHEET NUMBER:

A504

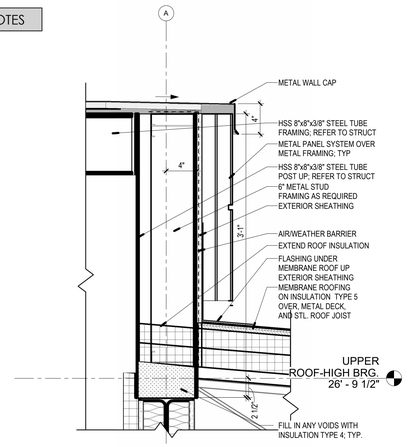
SHEET 38 OF 172

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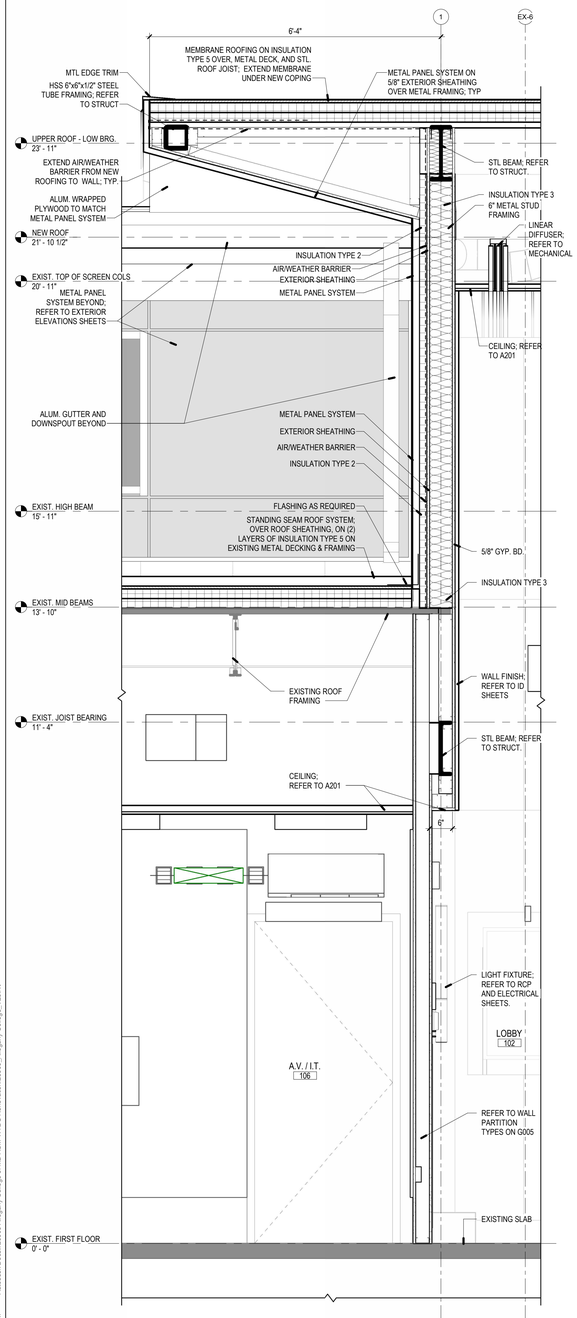
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

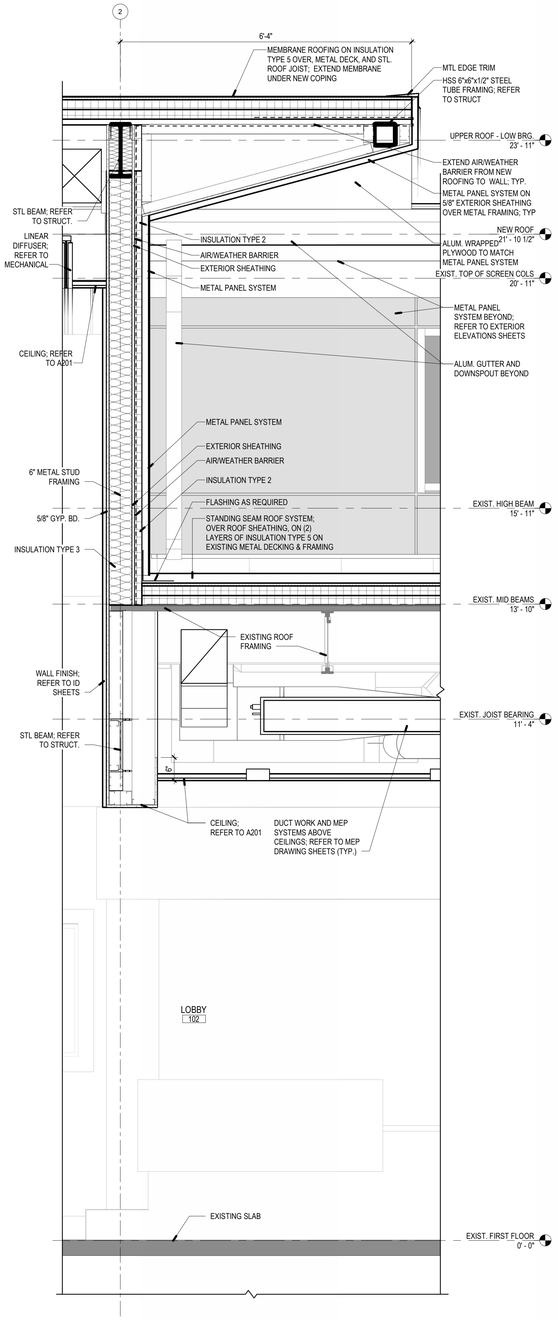
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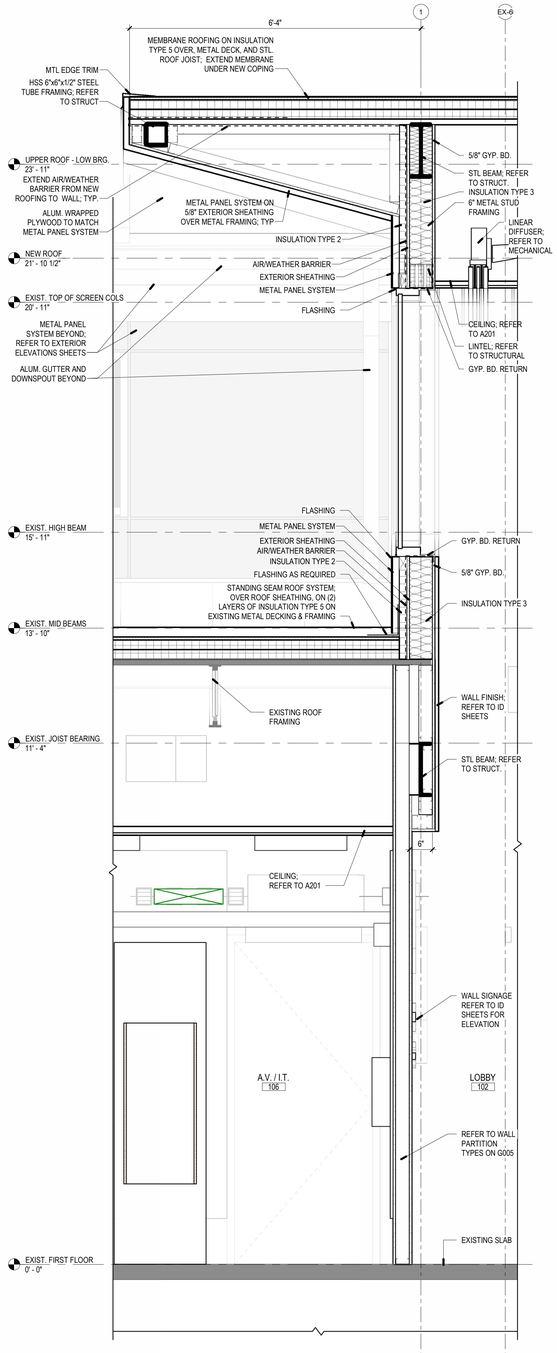
5 A505 ENLARGED DETAIL
1 1/2" = 1'-0"



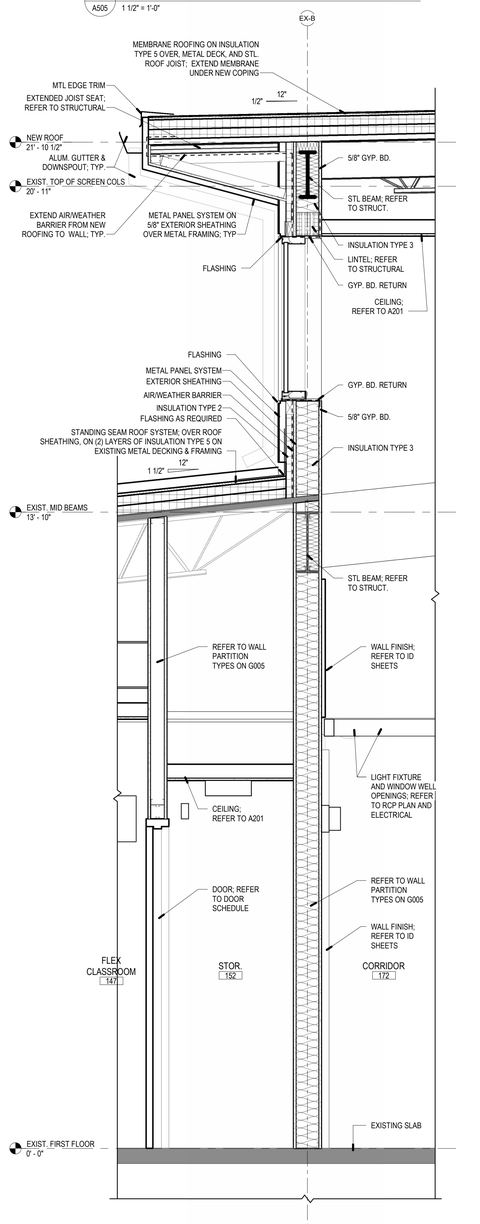
4 A505 WALL SECTION
3/4" = 1'-0"



3 A505 WALL SECTION
3/4" = 1'-0"



2 A505 WALL SECTION
3/4" = 1'-0"



1 A505 WALL SECTION
3/4" = 1'-0"

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ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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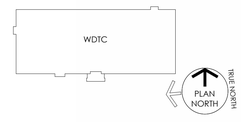
12401 WILLOWBROOK RD, SE
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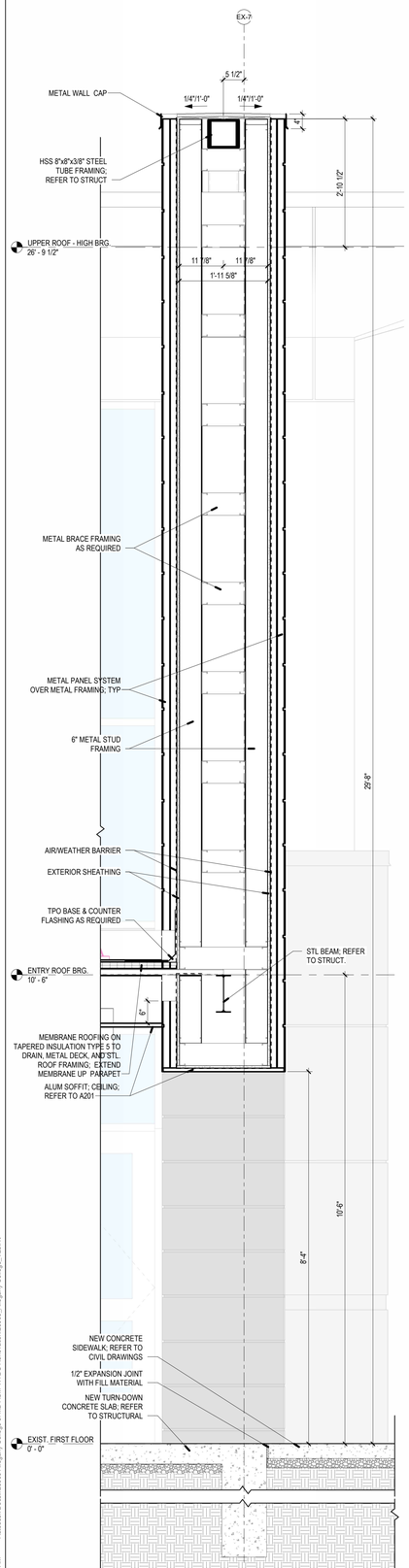
A505

SHEET 39 OF 172

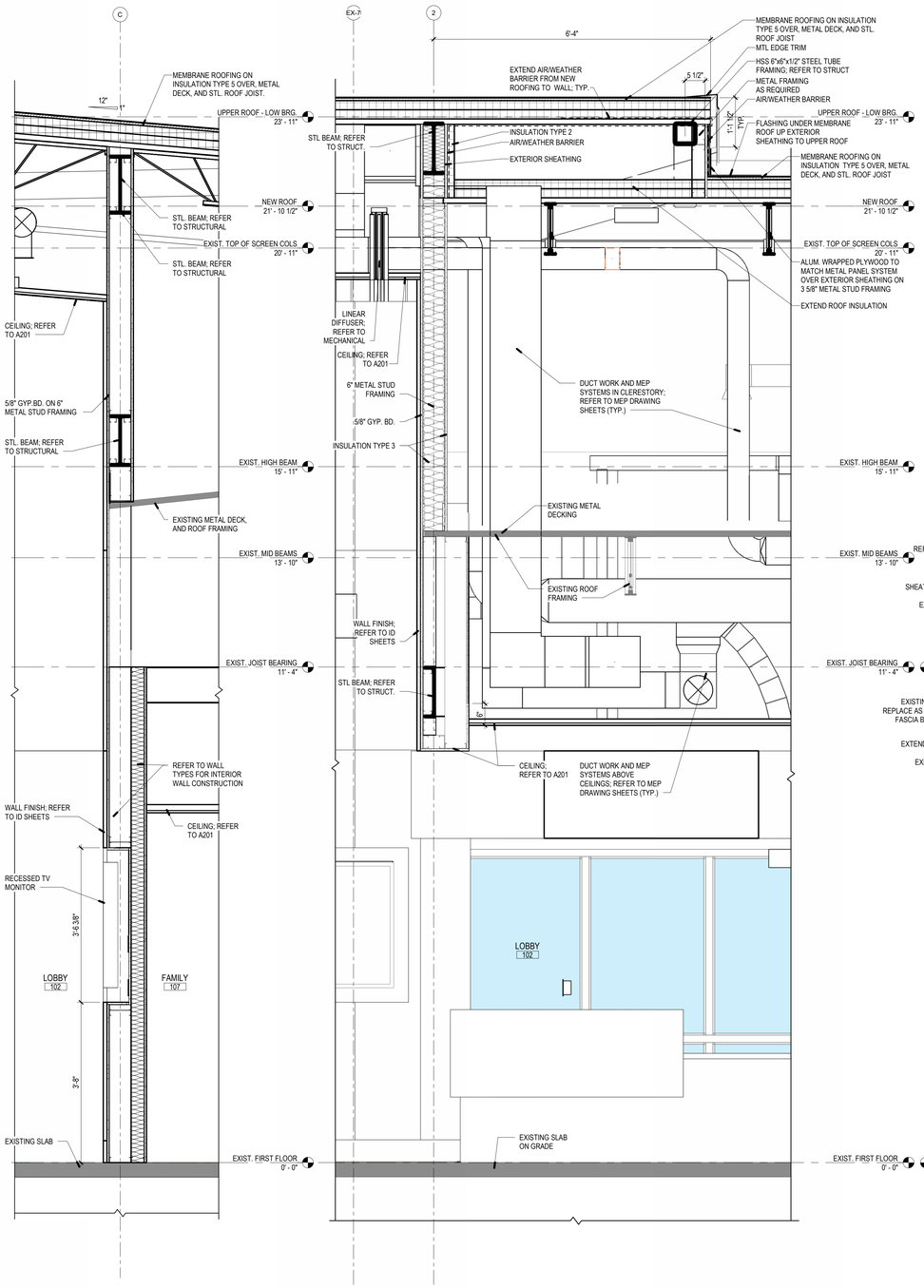
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GENERAL AIR BARRIER & SEALING SYSTEM NOTES

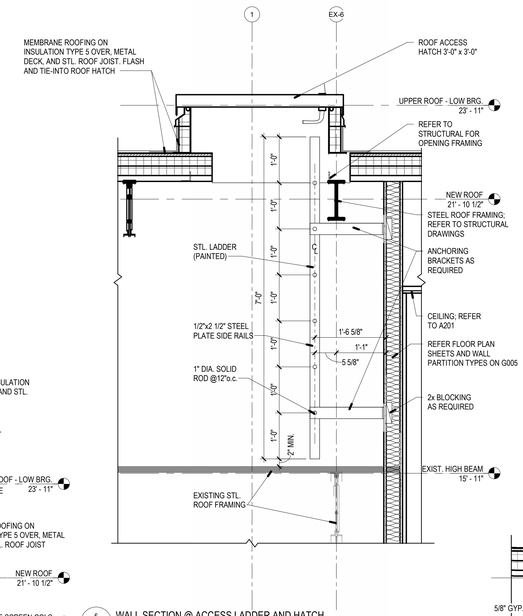
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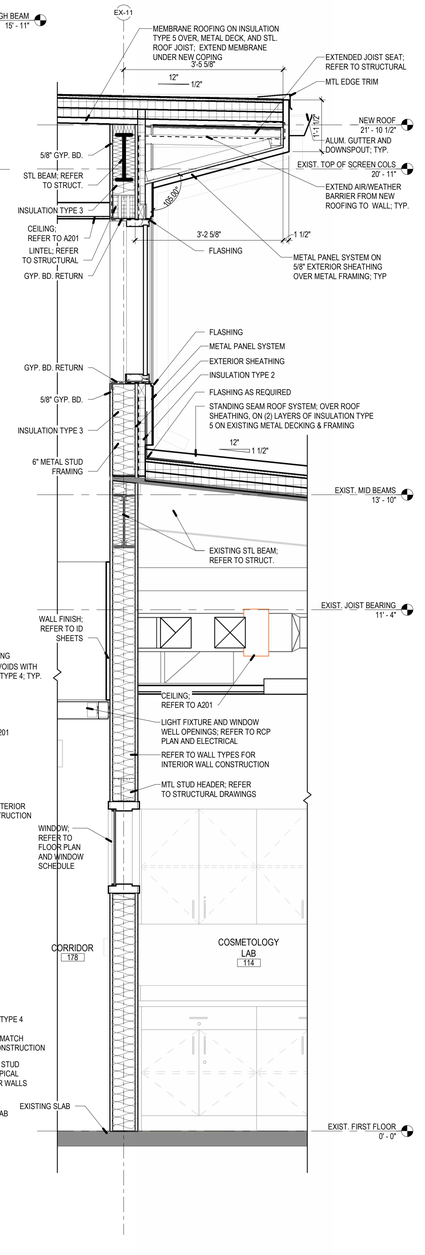
6 A506 WALL SECTION 3/4" = 1'-0"



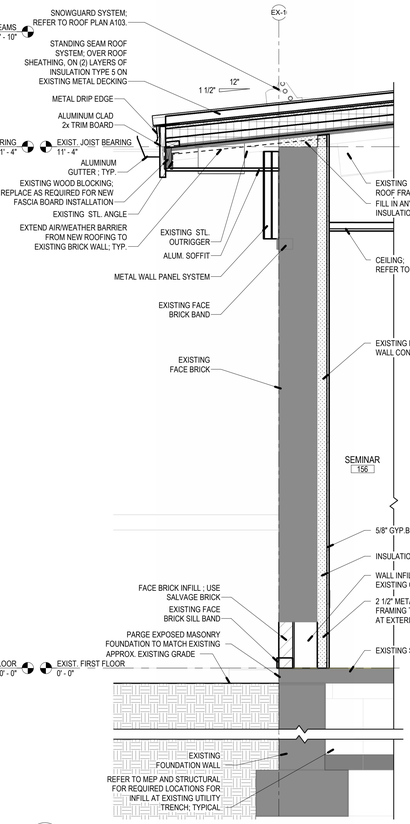
4 A506 WALL SECTION 24 @ RECESSED TV 3/4" = 1'-0"



5 A506 WALL SECTION @ ACCESS LADDER AND HATCH 3/4" = 1'-0"



1 A506 WALL SECTION 3/4" = 1'-0"



2 A506 WALL SECTION 3/4" = 1'-0"

3 A506 WALL SECTION 3/4" = 1'-0"

11/5/2026 10:12:43 AM Autodesk Docs://25909 Allegany College of MD ACM.WTDC Renovation/25909_Allegany College_V25.rvt

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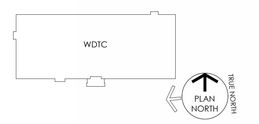
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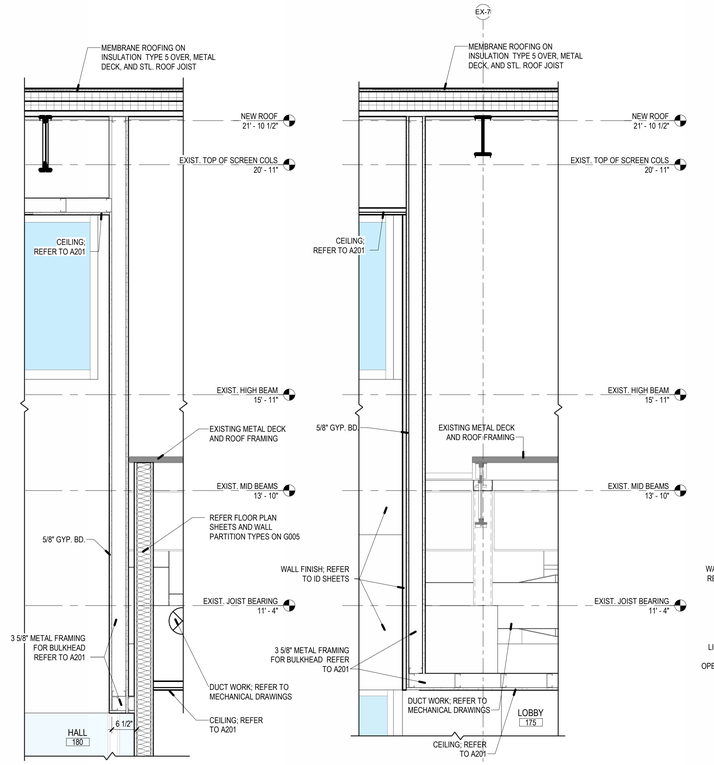
WALL SECTIONS

SHEET NUMBER:

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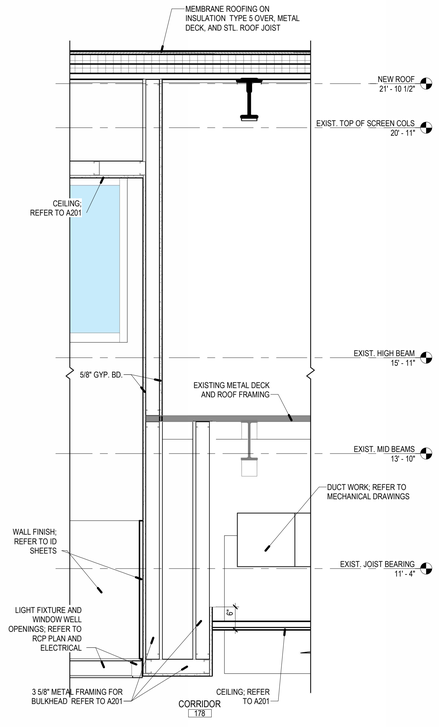
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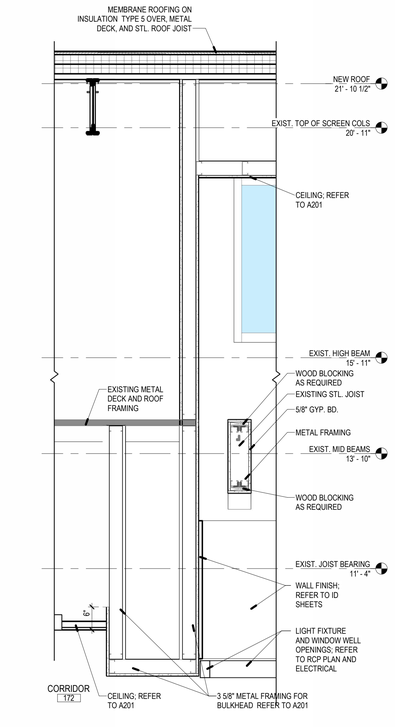


7 A507 BULKHEAD DETAIL @ HALL 180 — 3/4" = 1'-0"

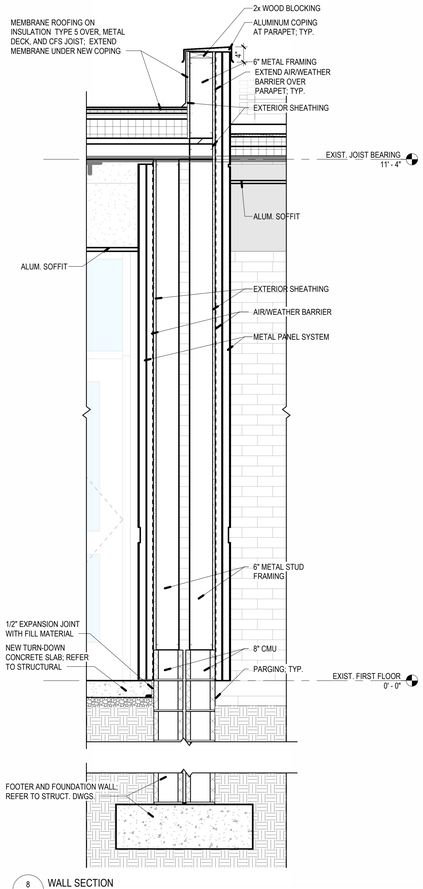
6 A507 BULKHEAD CEILING DETAIL @ LOBBY 175 — 3/4" = 1'-0"



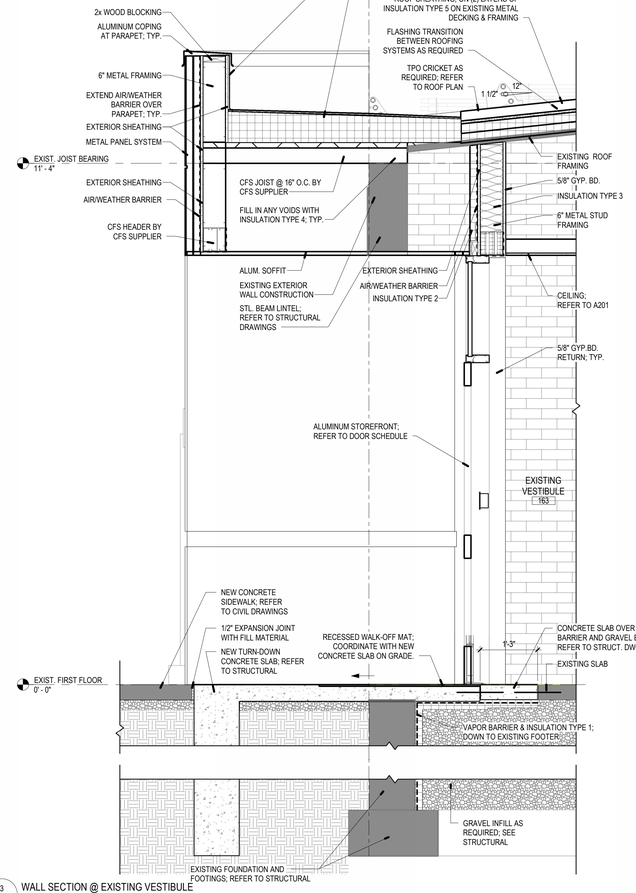
5 A507 BULKHEAD CEILING DETAIL @ CORRIDOR 178 — 3/4" = 1'-0"



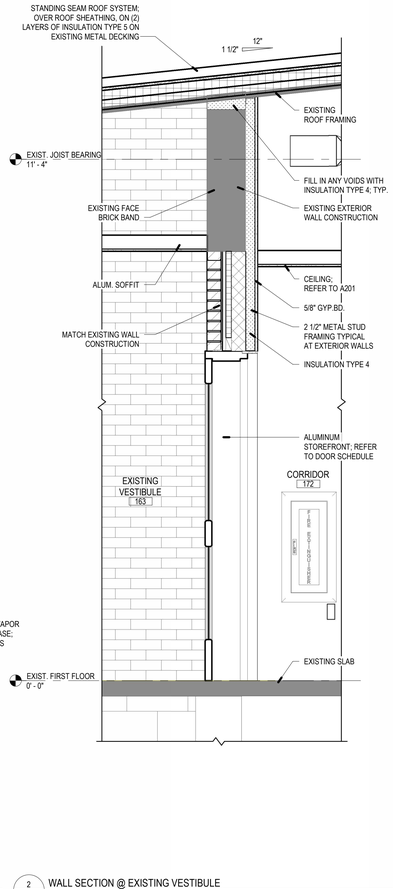
4 A507 BULKHEAD CEILING DETAIL @ CORRIDOR 172 — 3/4" = 1'-0"



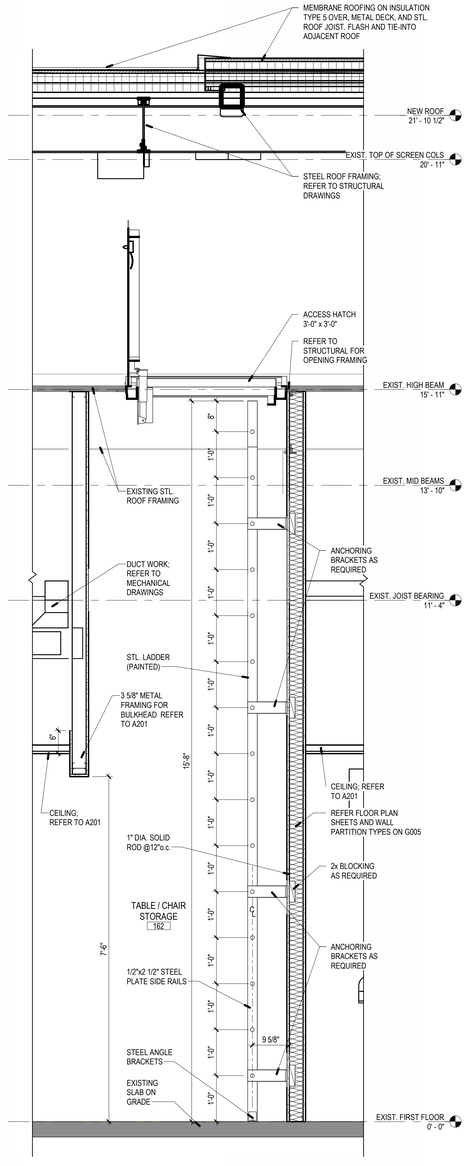
8 A507 WALL SECTION — 3/4" = 1'-0"



3 A507 WALL SECTION @ EXISTING VESTIBULE — 3/4" = 1'-0"



2 A507 WALL SECTION @ EXISTING VESTIBULE — 3/4" = 1'-0"



1 A507 WALL SECTION @ ACCESS LADDER AND HATCH — 3/4" = 1'-0"

GENERAL AIR BARRIER & SEALING SYSTEM NOTES

1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
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Structural Engineers
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Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

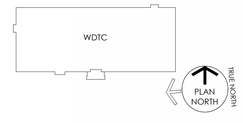
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

WALL SECTIONS

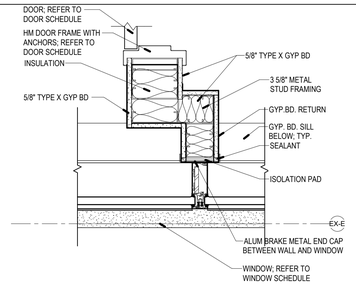
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A507

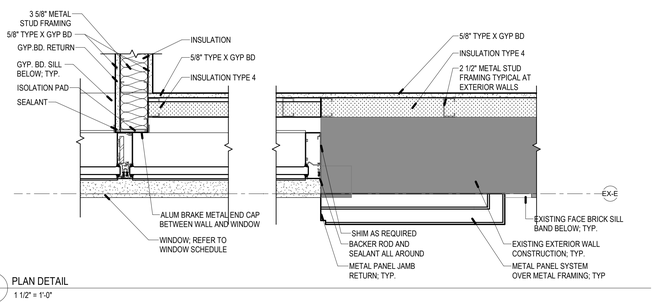
SHEET 41 OF 172

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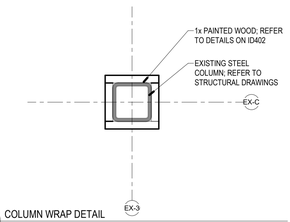
21 A601 PLAN DETAIL @ WINDOW
1 1/2" = 1'-0"



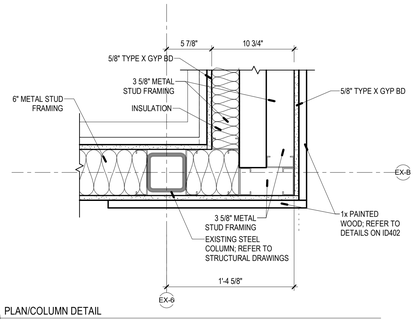
20 A601 PLAN DETAIL
1 1/2" = 1'-0"

GENERAL AIR BARRIER & SEALING SYSTEM NOTES

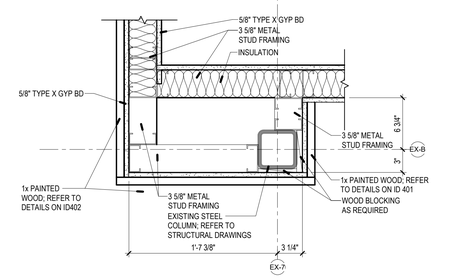
1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.



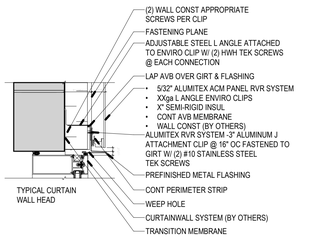
19 A601 COLUMN WRAP DETAIL
1 1/2" = 1'-0"



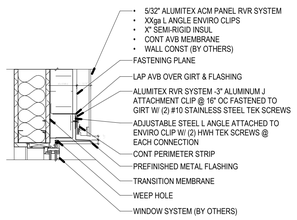
18 A601 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



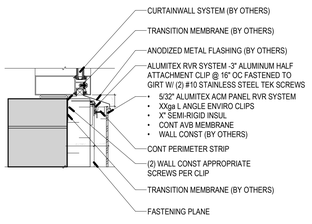
17 A601 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



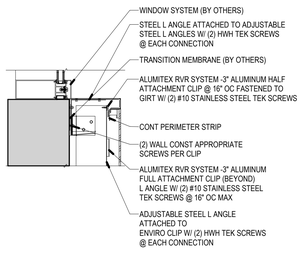
16 A601 ALUMITEX- TYPICAL CURTAIN WALL HEAD
1 1/2" = 1'-0"



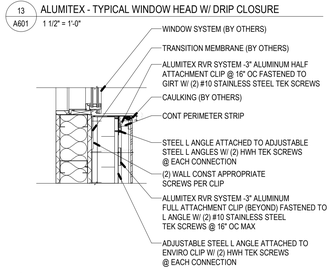
13 A601 ALUMITEX - TYPICAL WINDOW HEAD W/ DRIP CLOSURE
1 1/2" = 1'-0"



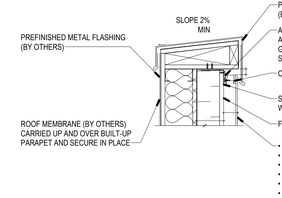
15 A601 ALUMITEX - TYPICAI CURTAIN WALL SILL
1 1/2" = 1'-0"



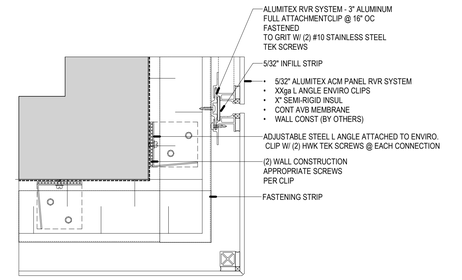
14 A601 ALUMITEX - WINDOW JAMB W/ ACM RETURN
1 1/2" = 1'-0"



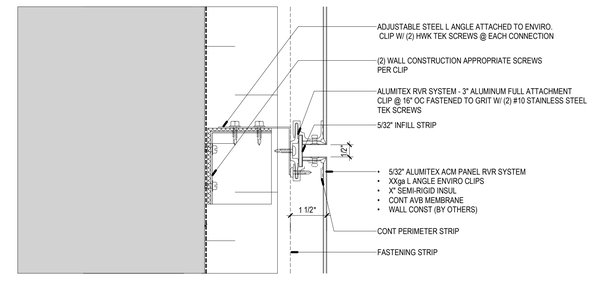
12 A601 ALUMITEX - TYPICAL WINDOW JAMB W/ METAL CLOSURE
1 1/2" = 1'-0"



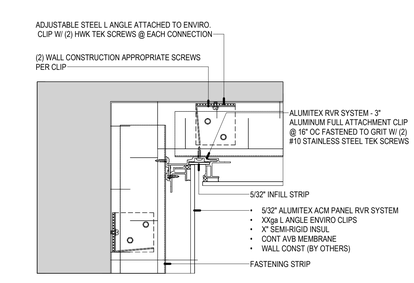
11 A601 ALUMITEX - TYPICAL PARAPET DETAIL
1 1/2" = 1'-0"



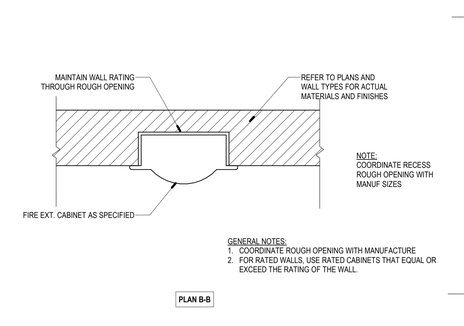
10 A601 ALUMITEX - TYPICAL OUTSIDE MITERED CORNER DETAIL
1 1/2" = 1'-0"



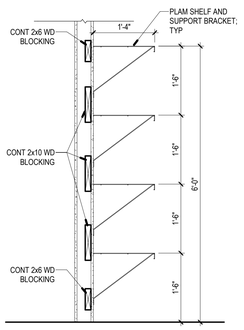
9 A601 ALUMITEX SYSTEM DETAIL
1 1/2" = 1'-0"



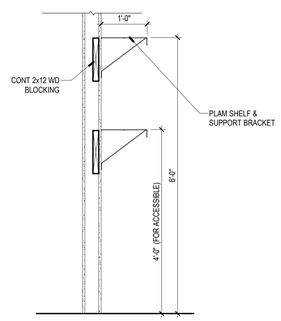
8 A601 ALUMITEX - INSIDE CORNER DETAIL
1 1/2" = 1'-0"



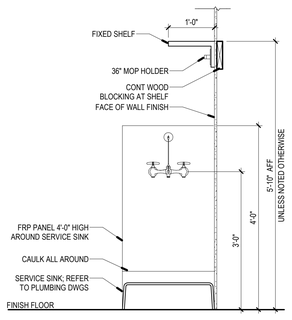
7 A601 FEC DETAILS
1 1/2" = 1'-0"



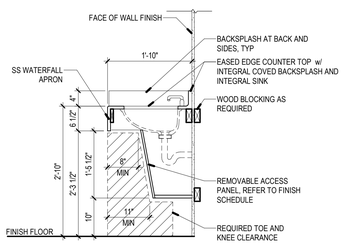
6 A601 SHELF DETAIL - STORAGE
3/4" = 1'-0"



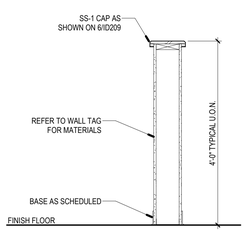
5 A601 SHELF DETAIL - AV CLOSET
3/4" = 1'-0"



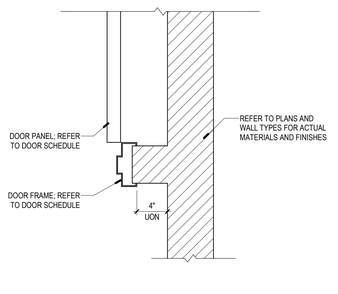
4 A601 JANITOR SINK / SHELF DETAIL
3/4" = 1'-0"



3 A601 SINK VANITY DETAIL
3/4" = 1'-0"



2 A601 LOW WALL DETAIL
3/4" = 1'-0"



1 A601 TYPICAL DOOR JAMB CONDITION
1 1/2" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
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Structural Engineers
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Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

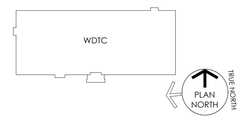
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS

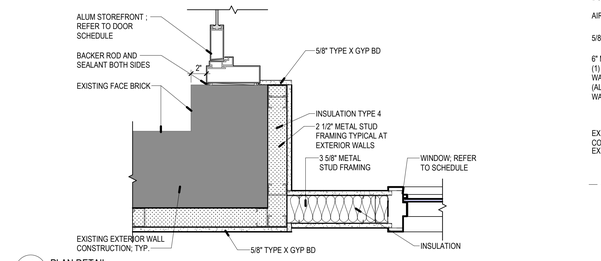
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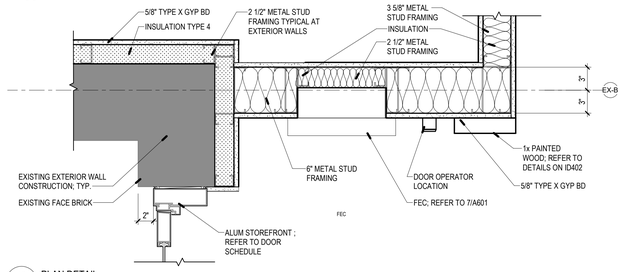
SHEET 42 OF 172

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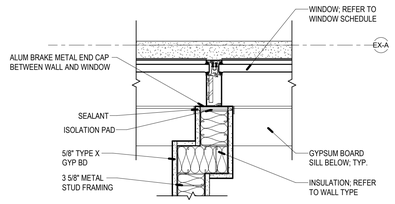
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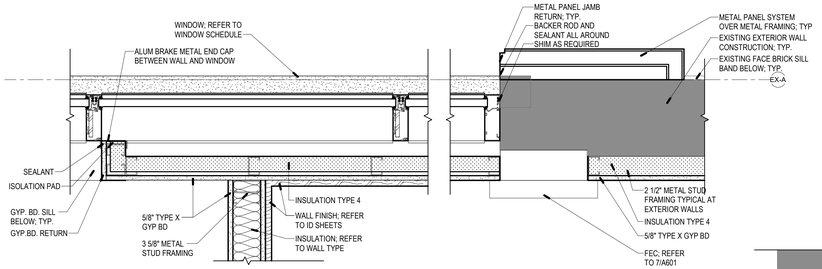
18 A602 PLAN DETAIL
1 1/2" = 1'-0"



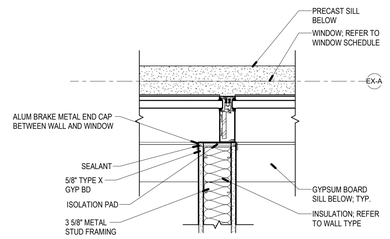
17 A602 PLAN DETAIL
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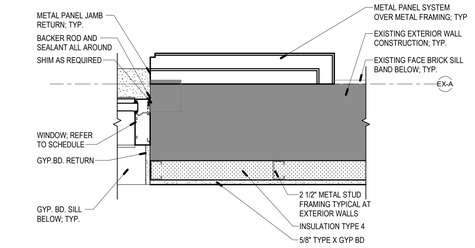
16 A602 PLAN DETAIL @ WINDOW
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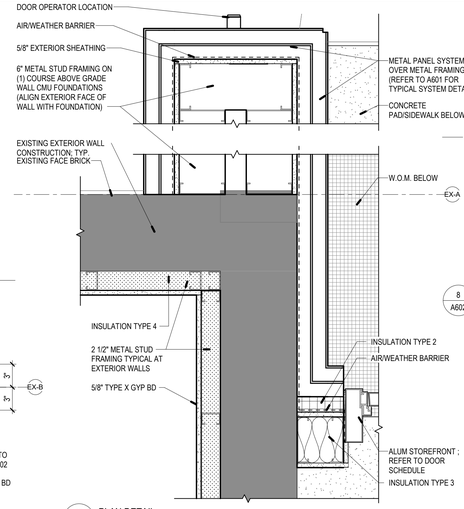
15 A602 PLAN DETAIL @ WINDOW
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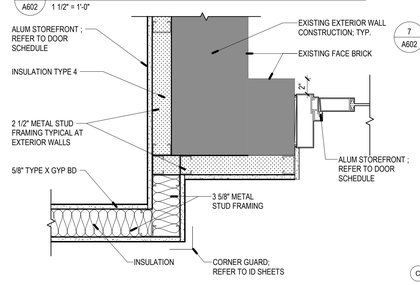
14 A602 PLAN DETAIL @ WINDOW
1 1/2" = 1'-0"



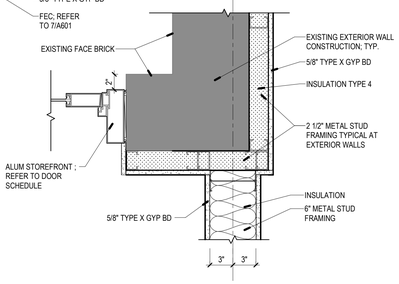
13 A602 PLAN DETAIL @ WINDOW
1 1/2" = 1'-0"



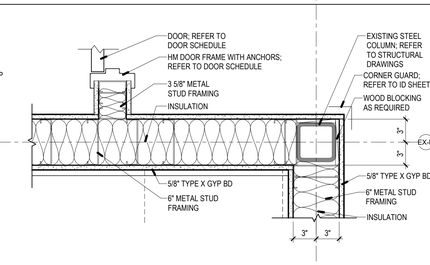
12 A602 PLAN DETAIL
1 1/2" = 1'-0"

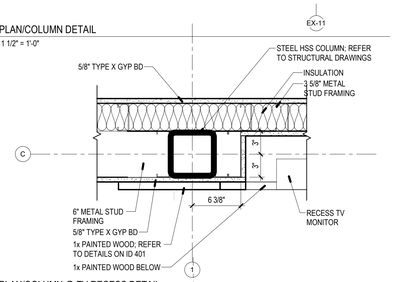


11 A602 PLAN DETAIL
1 1/2" = 1'-0"



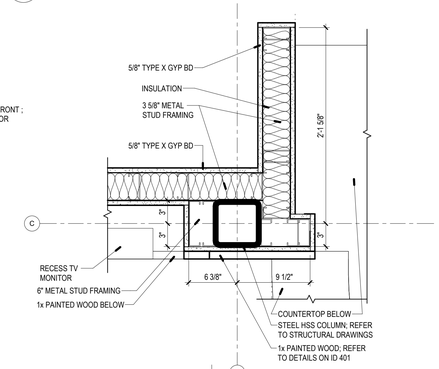
10 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"

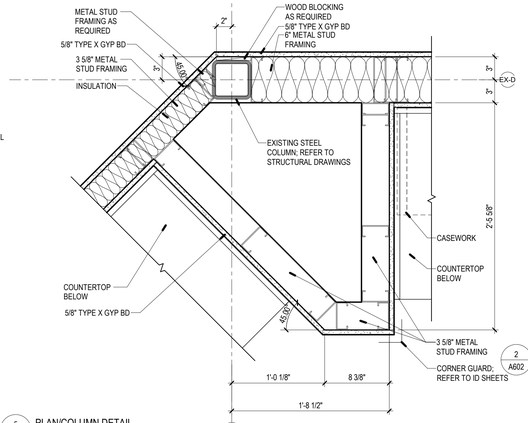




8 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"

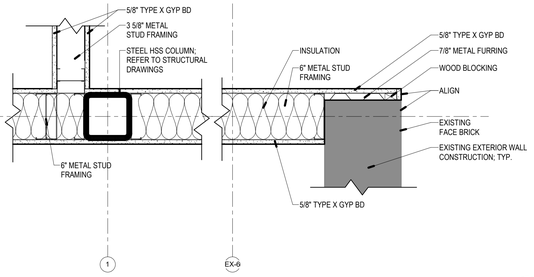
7 A602 PLAN/COLUMN @ TV RECESS DETAIL
1 1/2" = 1'-0"



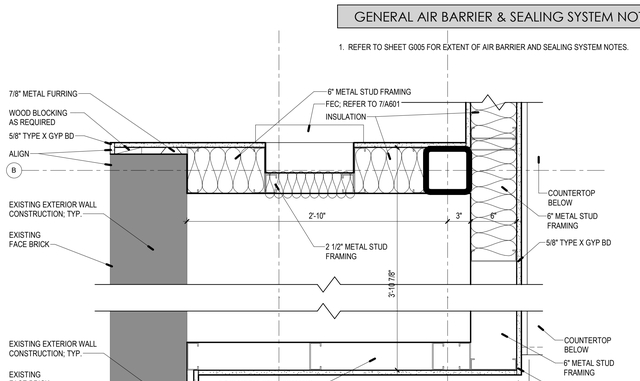


6 A602 PLAN/COLUMN @ TV RECESS DETAIL
1 1/2" = 1'-0"

5 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



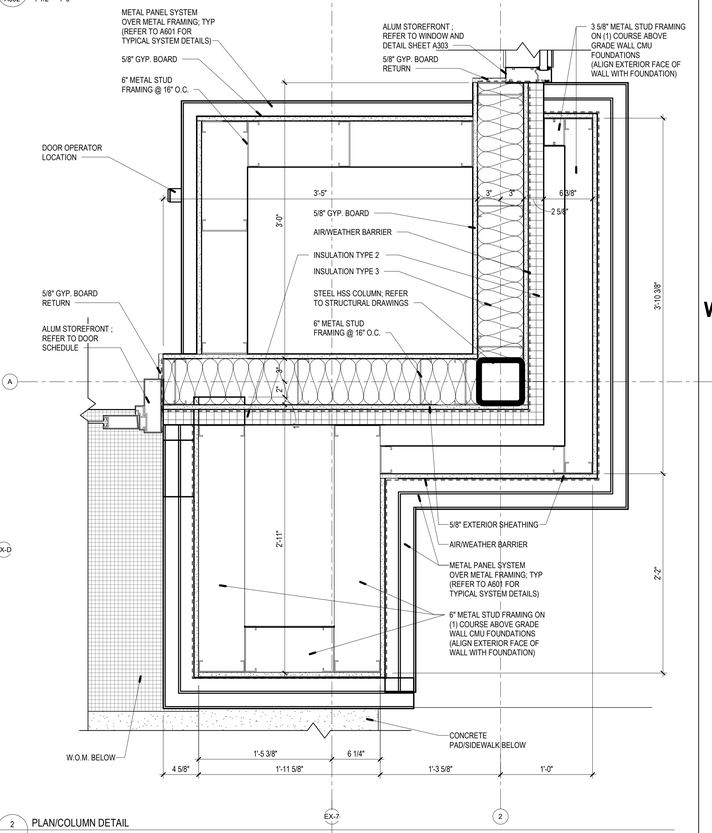
4 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



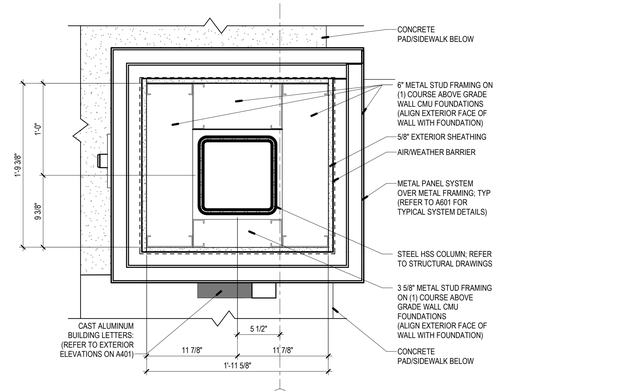
GENERAL AIR BARRIER & SEALING SYSTEM NOTES

1. REFER TO SHEET G005 FOR EXTENT OF AIR BARRIER AND SEALING SYSTEM NOTES.

3 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



2 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"



1 A602 PLAN/COLUMN DETAIL
1 1/2" = 1'-0"

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Joppa, MD | 21085
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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

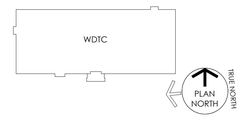
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PLAN AND COLUMN DETAILS

SHEET NUMBER:

A602

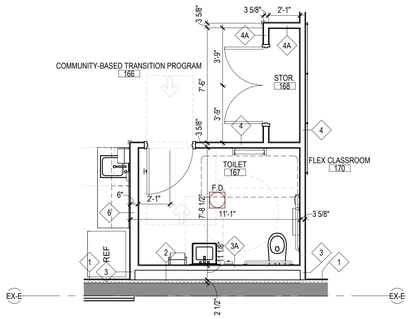
SHEET 43 OF 172

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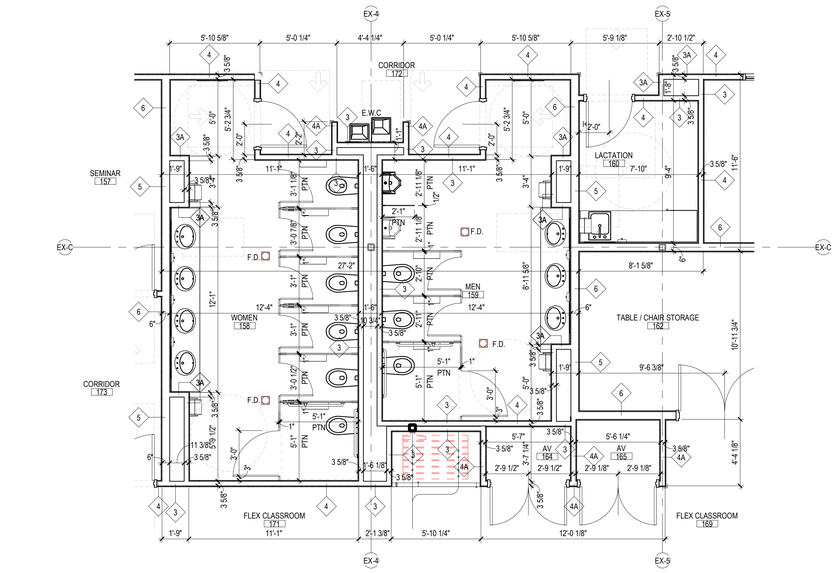
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FLOOR PLAN GENERAL NOTES

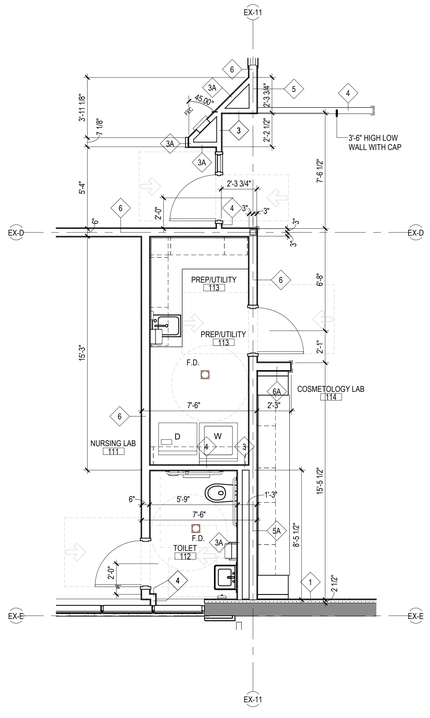
1. ALL DAMAGE OR DISTURBANCE TO GRADING, SHALL BE REPAIRED AND RESTORED AS REQUIRED. SEE CIVIL SHEETS C100 THRU C105
2. ALL NEW AND PATCHED BRICK/MORTAR EXPOSED TO VIEW (EXTERIOR AND INTERIOR) SHALL MATCH EXISTING IN ALL RESPECTS, REUSE SALVAGED BRICK WHERE POSSIBLE.
3. PATCH EXISTING CONCRETE SLAB AS REQUIRED TO INCORPORATE ALL NEW IN-FLOOR WORK, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL, MECHANICAL, ELECTRICAL AND PLUMBING.



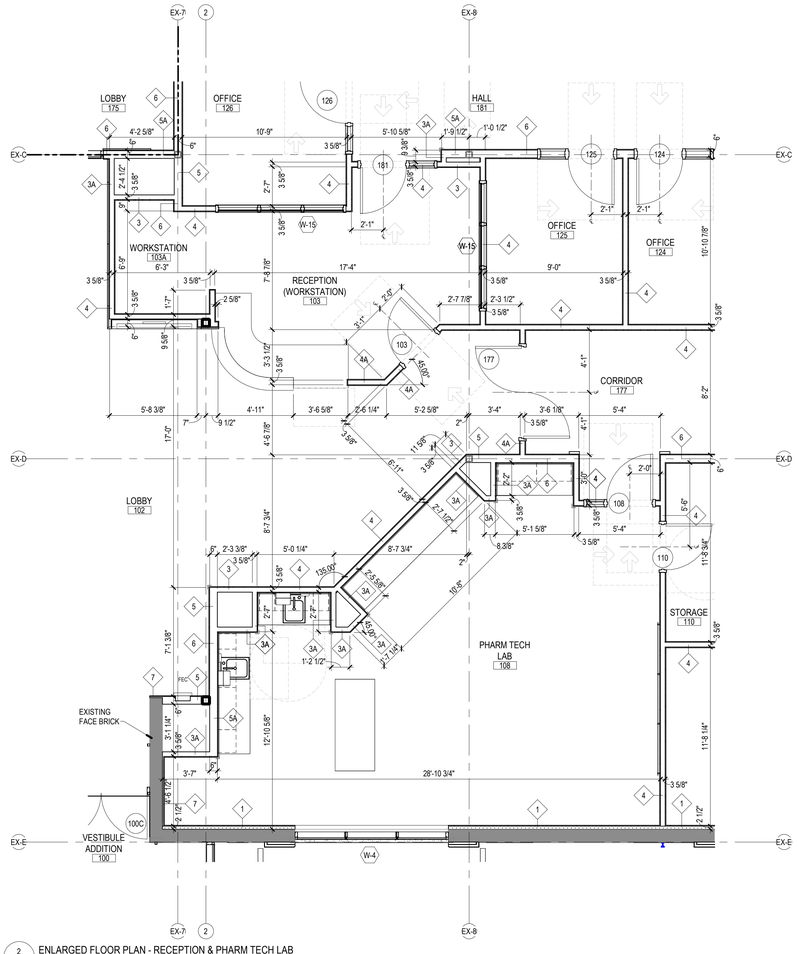
6 A701 ENLARGED FLOOR PLAN - TOILET
1/4" = 1'-0"



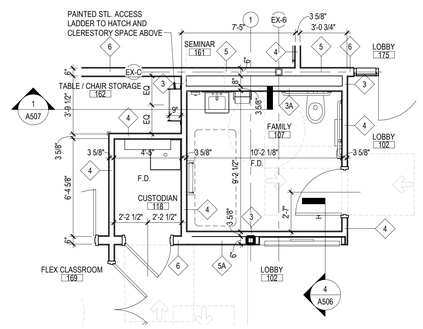
5 A701 ENLARGED PLAN - MENS & WOMENS RESTROOMS
1/4" = 1'-0"



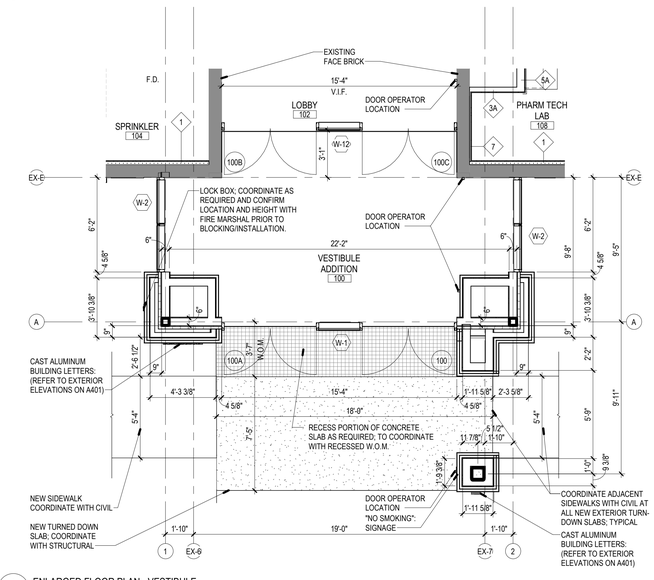
3 A701 ENLARGED FLOOR PLAN - TOILET & PREP / UTILITY
1/4" = 1'-0"



2 A701 ENLARGED FLOOR PLAN - RECEPTION & PHARM TECH LAB
1/4" = 1'-0"



4 A701 ENLARGED FLOOR PLAN - CUSTODIAN / FAMILY
1/4" = 1'-0"



1 A701 ENLARGED FLOOR PLAN - VESTIBULE
1/4" = 1'-0"

11/4/2026 9:03:10 AM Autodesk Docs://25909 Allegany College of MD (ACM-WTDC Renovation)/25909_Allegany College_V25.rvt

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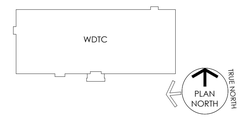
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SHEET TITLE:

ENLARGED PLANS & ELEVATIONS

SHEET NUMBER:

A701

SHEET 44 OF 172

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TOILET ACCESSORY SCHEDULE

TYPE MARK	DESCRIPTION	COMMENTS	OFCI	OFOI
TA-1B	18" LONG GRAB BAR			
TA-1E	36" LONG GRAB BAR			
TA-1F	42" LONG GRAB BAR			
TA-2	PAPER TOWEL ROLL DISPENSER - WALL MOUNTED		•	
TA-3B	24Wx36H MIRROR UNIT			
TA-3C	24Wx60H MIRROR UNIT			
TA-4	COAT HOOK			
TA-5	TOILET TISSUE DISPENSER		•	
TA-7	WASTE RECEPTACLE			•
TA-10	LIQUID- SOAP DISPENSER - WALL MOUNTED		•	
TA-14	SANITARY NAPKIN DISPOSAL - WALL MOUNTED			
TA-14A	SANITARY NAPKIN DISPOSAL - PARTITION MOUNTED			
TA-31	Adjustable Height Changing Station			
TA-34	UNDERLAVATORY GUARD			
TA-35	MOP AND BROOM HOLDER			

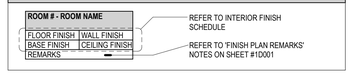
APPLIANCE / EQUIPMENT SCHEDULE

TYPE MARK	DESCRIPTION	COMMENTS	OFCI	OFOI
	<varies>			
AP-1	REFRIGERATOR, SIDE BY SIDE			
AP-2	MODULAR COOKTOP			
AP-3	WALL OVEN			
AP-4	MICROWAVE			
AP-5	DISHWASHER			
AP-6	CLOTHES WASHER			
AP-7	CLOTHES DRYER			
AP-8	UNDER COUNTER REFRIGERATOR			
AP-9	DOUBLE DOOR REACH-IN COMMERCIAL REFRIGERATOR			
AP-10	COMMERCIAL WARMING CABINET			
AP-11	COMMERCIAL ICE MACHINE			
AP-12	COMMERCIAL TRIPLE SINK			

INTERIOR FINISH SCHEDULE

SYMBOL	MANUFACTURER	PRODUCT NAME, NUMBER & COLOR	PRODUCT DETAILS
062000 - FINISH CARPENTRY			
WWP-1	CUSTOM	STAIN COLOR: TO MATCH ARCHITECT'S CONTROL SAMPLE (PLAM-1); CLEAT: FRY REGLET MILLWORK CLEAT 25; CORNER TRIM: FRY REGLET, 1" MILLWORK HOLLOW OUTSIDE CORNER #MWHCOR100; REVEAL TRIM: FRY REGLET, 1" MILLWORK REVEAL #MWR10050; EDGE TRIM: FRY REGLET, 1" MILLWORK REVEAL F #MWRF10050; TRIM FINISH: CLEAR ANODIZED ALUMINUM	FOR USE IN: LOBBIES, COLUMN WRAPS, CORRIDOR LIGHT SHAFTS
064100 - ARCHITECTURAL WOOD CASEWORK			
PLAM-1	TAFISA	PATTERN: BEACH MEMORIES T491 (SN); CABINET PULLS: MOCKETT DP57B-4-5/32 WIRE PULL; HARDWARE FINISH: STAINLESS STEEL; GROMMETS: TBD	FOR USE IN: BASE & WALL CABINETS THROUGHOUT PROJECT
PLAM-2	FORMICA	PATTERN: NEUTRAL TWILL 8826-58	FOR USE IN: RESTROOM SLOPED APRON
068316 - FIBERGLASS REINFORCED PANELING			
FRP-1	MARLITE	PRODUCT: STANDARD FRP; THICKNESS: 0.090"; COLOR: LIGHT GRAY P-151; FINISH: PEBBLE; TRIM: BASE, CORNER MOULDING, DIVISION TRIM AND SEALANT; TRIM FINISH: MATCH PANEL FINISH	FOR USE IN: CUSTODIANS
FRP-2	MARLITE	PRODUCT: SYMMETRIX SMARTSEAM FRP; THICKNESS: 0.090"; PATTERN: SUBWAY HORIZONTAL 6" X 3"; COLOR: LOGGIA; FINISH: GLOSSY	FOR USE IN: KITCHEN LAB & CATER
081416 - FLUSH WOOD DOORS			
	TBD	SPECIES: WHITE MAPLE; CUT: QUARTER CUT; STAIN: CUSTOM TO MATCH CONTROL SAMPLE (PLAM-1)	FOR USE IN: THROUGHOUT PROJECT, UON
088000 - GLAZING			
GF-1	SMART FILM	PRODUCT: REFER TO SPECIFICATIONS	FOR USE IN: SEMINAR INTERIOR GLAZING
GF-2	SOLYX BY DECORATIVE FILMS	PRODUCT: SXJ-0598 DUAL MISTY FROST GRADIENT	FOR USE IN: KITCHEN CATER INTERIOR GLAZING
093000 - TILING			
CT-1	AMERICAN OLEAN	PRODUCT: COLOR STORY WALL; COLOR: SAPPHIRE SKY 0070; FINISH: GLOSSY; SIZE: 4X16X3/8"; GROUT THICKNESS: 1/16"; INSTALL METHOD: HORIZONTAL STAGGER	FOR USE IN: KITCHEN CATER WALL ACCENT
PT-1	DALTILE	PRODUCT: HAUT MONDE; COLOR: GLITTERATI GRANITE HM03; FINISH: MATTE; SIZE: 12" X 24" X 5/16"; GROUT THICKNESS: 3/16"; INSTALL METHOD: STAGGERED BRICK-JOINT (OVERLAP NOT OT EXCEED 33%); GROUT COLOR: TBD; COVE TRIM PROFILE: SCHLUTER-DILEX-AHK; TRIM FINISH: ANODIZED ALUMINUM	FOR USE IN: RESTROOM FLOORING
PT-2	FLORIDA TILE	PRODUCT: PASSENGER; COLOR: EVERYWHERE GREIGE PSG30; FINISH: TBD; SIZE: 12" X 24" X 9MM RECTIFIED; GROUT THICKNESS: AS RECOMMENDED PER MANUF; INSTALL METHOD: TBD; OUTER CORNER TRIM PROFILE: TBD; EDGE TRIM PROFILE: TBD; TRIM FINISH: TBD	FOR USE IN: RESTROOM WALLS
PT-3	AUDREY LANE	PRODUCT: GRUPPO ROMANI, I ROVERI; COLOR: ROVERE NATURALE; FINISH: NATURAL (MATTE); SIZE: 8" X 48" X 9.5MM; GROUT THICKNESS: AS RECOMMENDED PER MANUF; GROUT COLOR: TBD; INSTALL METHOD: HORIZONTAL STRAIGHT STACK CENTERED BETWEEN WALL	FOR USE IN: RESTROOM WALL ACCENT & W.C. WALL SURROUND
PT-4	DALTILE	PRODUCT: HADDONSTONE; COLOR: ATLAS HS06 VEIN-CUT; FINISH: STEPWISE; SIZE: 12" X 24" X 5/16"; GROUT THICKNESS: 3/16"; INSTALL METHOD: STAGGERED BRICK-JOINT, OVERLAP NOT TO EXCEED 33%; BASE PROFILE: 6" X 12" COVE BASE S36C9 (ALIGN GROUT JOINTS WITH FLOOR); PT TO LVT TRIM PROFILE: SCHLUTER RENO-U; TRIM FINISH: TBD	FOR USE IN: KITCHEN LAB FLOOR
095100 - ACOUSTICAL CEILINGS			
ACT-1	ARMSTRONG COMMERCIAL CEILINGS	PRODUCT: ULTIMA 1951; COLOR: WHITE; SIZE: 24" X 24" X 3/4"; EDGE PROFILE: BEVELED TEGULAR; MATERIAL: MINERAL FIBER; NRC: 0.60; CAC: 40; GRID: PRELUDE; GRID COLOR: WHITE; GRID SIZE: 15/16"	FOR USE IN: TYPICAL CEILING TILE THROUGHOUT PROJECT (TO MATCH CAMPUS PRODUCT STANDARD)
ACT-2	ARMSTRONG COMMERCIAL CEILINGS	PRODUCT: GEORGIAN 763; COLOR: WHITE; SIZE: 24" X 48" X 5/8"; EDGE PROFILE: SQUARE LAY-IN; MATERIAL: MINERAL FIBER; NRC: 0.55; CAC: 33; GRID: PRELUDE; GRID COLOR: WHITE; GRID SIZE: 15/16"	FOR USE IN: BACK OF HOUSE
095423 - LINEAR METAL CEILINGS			
C-1	CERTAINTEED	PRODUCT: LINEAR MULTI-BOX SERIES; FINISH: DECORATED WOOD-LOOK, NORTHWEST MOUNTAIN HEMLOCK (8486); PANEL WIDTHS: 4", 6", 8" NON PERFORATED; PANEL DEPTH: 5/8"; INSTALLATION PATTERN: INDIA	FOR USE IN: LOBBIES
096500 - RESILIENT FLOORING			
LVT-1	ARMSTRONG COMMERCIAL FLOORING	PRODUCT: COALESCE OXIDIZE; COLOR: RHODIUM ST884; SIZE: 18" X 36" X 2.5MM; FINISH: DIAMOND 10 TECH COATING; INSTALLATION PATTERN: STAGGER; INSTALLATION METHOD: GLUE DOWN	FOR USE IN: LOBBIES & CORRIDORS (TO MATCH CAMPUS PRODUCT STANDARD)
LVT-2	ARMSTRONG COMMERCIAL FLOORING	PRODUCT: COALESCE OXIDIZE; COLOR: URANIUM ST885; SIZE: 18" X 36" X 2.5MM; FINISH: DIAMOND 10 TECH COATING; INSTALLATION PATTERN: STAGGER; INSTALLATION METHOD: GLUE DOWN	FOR USE IN: ACCENT COLOR (TO MATCH CAMPUS PRODUCT STANDARD)
LVT-3	ARMSTRONG COMMERCIAL FLOORING	PRODUCT: EXCHANGE STATIC; COLOR: CATHODE GRAY ST910; SIZE: 6" X 36" X 2.5MM; FINISH: DIAMOND 10 TECH COATING; INSTALLATION PATTERN: STAGGER; INSTALLATION METHOD: GLUE DOWN	FOR USE IN: ACCENT COLOR (TO MATCH CAMPUS PRODUCT STANDARD)
LVT-4	ARMSTRONG COMMERCIAL FLOORING	PRODUCT: NATURAL CREATIONS AVILA OAK; COLOR: MOROCCAN SAND NA190; SIZE: 6" X 36" X 2.5MM; FINISH: DIAMOND 10 TECH COATING; INSTALLATION PATTERN: STAGGER; INSTALLATION METHOD: GLUE DOWN	FOR USE IN: LABS, TRANSITIONS CLASSROOM & ACCENT COLOR (TO MATCH CAMPUS PRODUCT STANDARD)
RB-1	TARKETT	PRODUCT: TRADITIONAL RUBBER WITH TOE; COLOR: GREY HAZE 24; HEIGHT: 4"	FOR USE IN: THROUGHOUT PROJECT, UON
096813 - TILE CARPETING			
CPT-1	MOHAWK GROUP	PATTERN: SIDE STRIPE TILE GT419; COLOR: 566 CENTRAL; SIZE: 24" X 24"; BACKING: ECOFLEX ONE; INSTALL PATTERN: BRICK ASHLAR; INSTALL METHOD: RELEASEABLE ADHESIVE	FOR USE IN: SEMINAR & CLASSROOM (TO MATCH CAMPUS PRODUCT & COLOR STANDARD)
CPT-2	MOHAWK GROUP	PATTERN: COUNTER CASUAL GT352; COLOR: GREY WASH 969; SIZE: 24" X 24"; BACKING: ECOFLEX ONE; INSTALL PATTERN: BRICK ASHLAR; INSTALL METHOD: RELEASEABLE ADHESIVE	FOR USE IN: OFFICE SUITE & LACTATION
098430 - SOUND ABSORBING WALL AND CEILING UNITS			
AP-1	ACOUFELT	PRODUCT: FRACTURE WALL PANELS; PATTERN: BARCODE 1, 2; THICKNESS: 12MM; COLOR: ALMOND; SIZE: 24" X 12"; LAYOUT: 3 (50% BA1 & BA2)	FOR USE IN: LOBBIES
099123 - INTERIOR PAINTING			
PNT-1	SHERWIN WILLIAMS	COLOR: REPOSE GRAY SW7015	FOR USE IN: TYPICAL WALL PAINT
PNT-2	SHERWIN WILLIAMS	COLOR: MINDFUL GRAY SW7016	FOR USE IN: TYPICAL TRIM PAINT (DOOR, DOOR FRAME & WINDOW FRAME, UON)
PNT-3	SHERWIN WILLIAMS	COLOR: HIGH REFLECTIVE WHITE SW7757	FOR USE IN: CEILING PAINT
PNT-4	SHERWIN WILLIAMS	COLOR: INKY BLUE SW9149	FOR USE IN: ACCENT PAINT & RESTROOMS ABOVE TILE
PNT-5	SHERWIN WILLIAMS	COLOR: SMOKY AZURITE SW9148	FOR USE IN: ACCENT PAINT
PNT-6	SHERWIN WILLIAMS	COLOR: TBD (MATCH WWP-1 PANELS)	FOR USE IN: LOBBY SIDE DOOR FRAME PAINT AT DOOR 107
102113.19 - PLASTIC TOILET COMPARTMENTS			
TP-1	ASI GLOBAL PARTITIONS	PRODUCT: SOLID PLASTIC HDPE; COLOR: METALLIC SILVER 9511; FINISH: HAMMERED	FOR USE IN: MENS & WOMENS
102123 - CUBICLE CURTAINS AND TRACK			
CC-1	ARCHITEX	PATTERN: RX6016; COLOR: BASSWOOD; MESH COLOR: TBD	FOR USE IN: NURSING LAB
TRACK	INPRO	PRODUCT: WHISPER CUBE; CARRIERS: SOLID HOOK	FOR USE IN: NURSING LAB
102239 - FOLDING PANEL PARTITIONS			
	MODERNFOLD	FABRIC PATTERN: CARNEGIE, ALPINE 7362A; FABRIC COLOR: 24; TRIM & HINGE COLOR: SMOKE GRAY	FOR USE IN: FLEX CLASSROOMS
102600 - WALL AND DOOR PROTECTION			
CG-1	INPRO	PRODUCT: 150 SURFACE MOUNT; COLOR: TAUPE 0113; LEG: 3"; HEIGHT: 4'	FOR USE IN: OUTSIDE CORNERS IN CORRIDORS THROUGHOUT PROJECT & AS NOTED ON FINISH PLAN
CG-2	INPRO	PRODUCT: 130 SURFACE MOUNT; COLOR: TAUPE 0113; LEG: 3"; HEIGHT: 4'	FOR USE IN: 135 DEGREE OUTSIDE CORNERS
WP-1	INPRO	PRODUCT: PALLADIUM RIGID SHEET PROTECTION; COLOR: SKYLIGHT 0189; THICKNESS: .040; HEIGHT: 4'-0" AFF ABOVE BASE; JOINTS: BUTT JOINT WITH COLOR MATCH SEALANT	FOR USE IN: NURSING LAB
123400 - WINDOW SHADES			
WT-1	DRAPER	PRODUCT: MOTORIZED; SHADE 1: SHEERWEAVE SW2500; COLOR: OYSTER/PEARL GREY; OPENNESS FACTOR: 1%; PRODUCT SHADE 2: SHEERWEAVE SW7100 BLACKOUT; COLOR: WHITE/PLATINUM; OPENESS FACTOR:0%	FOR USE IN: EXTERIOR WINDOWS AT FLEX CLASSROOMS
WT-2	DRAPER	PRODUCT: MANUAL; SHADE: SHEERWEAVE SW2500; COLOR: OYSTER/PEARL GREY; OPENESS FACTOR: 1%	FOR USE IN: EXTERIOR WINDOWS
123600 - COUNTERTOPS			
SS-1	WILSONART	COLOR: DUSK ICE 9203CE; EDGE: EASED; GROMMETS: WHITE	FOR USE IN: RECEPTION TRANSACTION TOP & COUNTERTOPS/BACKSPLASHES THROUGHOUT PROJECT, UON
SS-2	WILSONART	COLOR: ANGEL FALLS 9223SS; EDGE: EASED; SINK: AV1512; SINK COLOR: TBD	FOR USE IN: RESTROOM VANITY TOPS & BACKSPLASHES
124813 - ENTRANCE FLOOR MATS AND FRAMES			
WOM-1	MILLIKEN	PATTERN: OBEX GRID OBVINYL 11 OPEN; COLOR: BLACK; SIZE: 200MM X 200MM X 11MM THICK; INSTALLATION: RECESSED	FOR USE IN: EXTERIOR ENTRANCE
WOM-2	MILLIKEN	PATTERN: OBEX TILE CUT/FIBER; COLOR: DARK GREY FRC118-119; SIZE: 50CM X 50CM X 4.62MM; BACKING: PVC-FREE WELLBAC COMFORT PLUS CUSHION; INSTALL PATTERN: ASHLAR	FOR USE IN: VESTIBULE

FINISH TAG LEGEND



FINISH PLAN GENERAL NOTES

1. FIELD PAINT THROUGHOUT THE PROJECT SHALL BE PNT-1, ANY WALL NOT CALLED OUT TO RECEIVE AN ACCENT SHALL BE THE FIELD PAINT.
2. PAINT CEILING GRILLS, LOUVERS AND ACCESS PANELS TO MATCH ADJACENT WALL COLOR.
3. TRANSITION STRIP COLORS SHALL BE SELECTED BY ARCHITECT, FROM THE MANUFACTURERS FULL RANGE OF COLORS.
4. THE ID100 SERIES SHEETS ARE TO BE PRINTED IN COLOR.
5. FLOORING MATERIALS SHALL TERMINATE AT THE CENTERLINE OF THE DOOR WHEN MULTIPLE MATERIALS MEET.
6. PAINT FIRE EXTINGUISHER CABINET, EXTERIOR TRIM AND DOOR TO MATCH ADJACENT WALL COLOR.
7. REFER TO SPECIFICATIONS FOR DETAILED DESCRIPTION OF FINISH SYSTEMS/TYPES.
8. FACE AND UNDERSIDE OF GYPSUM WALL BOARD SOFFITS SHALL RECEIVE ACCENT PAINT IF THE WALL THAT THE SOFFIT SITS ON IS CALLED OUT TO RECEIVE AN ACCENT PAINT.
9. FLOORING SHALL RUN WALL TO WALL UNDER ALL CASEWORK/MILLWORK THROUGHOUT PROJECT.
10. HIGHLIGHTED WALLS IN PLAN INDICATE ACCENT PAINT LOCATIONS AND EXTENT.
11. INTERIOR FINISH ABBREVIATION LEGEND IS STANDARD. NOT ALL MATERIALS ARE NECESSARILY USED.

FINISH PLAN REMARKS

NOTE: REFER TO FINISH PLAN ROOM TAGS FOR REMARK LOCATIONS.

1. WOM-1 LOCATED AT EXTERIOR SIDE OF DOORS, REFER TO FLOOR PATTERN PLAN FOR EXTENT.
2. WP-1 WAINSCOT TO 4'-0" AFF, PNT-4 ABOVE.
3. PT-2 WAINSCOT TO 6'-0" AFF, PNT-4 ABOVE. PT-3 FULL HEIGHT AS LOCATED ON FINISH PLAN.
4. REFER TO WINDOW AND DOOR ELEVATIONS FOR GLAZING AND SCHEDULED GLASS FILM.

CASEWORK GENERAL NOTES

1. ALL BASE CABINETS SHALL RECEIVE A CONTINUOUS SOLID SURFACE COUNTERTOP WITH A 4" BACKSPLASH, UON. THE DEPTH OF THE COUNTERTOP SHALL EXTEND 1" PAST THE DEPTH OF THE BASE CABINET.
2. COUNTERTOPS THAT RETURN INTO WALL(S) SHALL RECEIVE A BACKSPLASH THAT WRAPS CORNER ALONG WALL(S).
3. WHERE COLUMNS, WINDOWS, OR OTHER BUILDING COMPONENTS CONFLICT WITH CASEWORK DIMENSIONAL REQUIREMENTS, FIELD VERIFY DIMENSIONS AND PROVIDE CUSTOM UNIT TO ALLOW PROPER FITTING.
4. ALL EXPOSED SURFACES AND EDGES OF CASEWORK/MILLWORK SHALL BE FINISHED.
5. LAMINATE COLOR FOR INTERIOR OF OPEN CABINETS SHALL MATCH EXTERIOR LAMINATE COLOR.
6. IN ROOMS RECEIVING RESILIENT BASE, ADHERE TO WALLS, BASE CABINET TOE KICKS, AND EXPOSED END PANELS.
7. GENERAL CONTRACTOR SHALL COORDINATE FURNITURE, FIXTURE, AND APPLIANCE LOCATIONS WITH OWNER.
8. PROVIDE 2 GROMMETS PER WORKSTATION. FINAL LOCATION PER OWNERS DIRECTION IN THE FIELD.
9. BASE AND TALL CABINETS SHALL BE 24" DEEP, UON. WALL CABINETS SHALL BE 14" DEEP, UON.
10. NUMBER CALLED OUT BELOW CASEWORK DIMENSION IS IN REFERENCE TO AWI CABINETS WHICH IS THE BASIS OF DESIGN FOR CASEWORK THROUGHOUT THE PROJECT. WHEN THE NUMBER IS CALLED OUT WITH A SUFFIX OF 'M' THAT UNIT IS INTENDED FOR MODIFICATION.
11. REFER TO SPECIFICATION SECTION 011000 FOR CLARIFICATION OF NIC ITEMS.
12. WHERE COUNTERTOPS VARY IN DEPTH, PROVIDE RADIUS CORNER IN COUNTERTOP.
13. FILLERS TO BE PROVIDED FOR ALL RUNS OF CASEWORK/MILLWORK SHALL BE A MINIMUM OF 1" AND A MAXIMUM OF 3".
14. CASEWORK THAT SHALL RECEIVE LOCKS IS INDICATED BELOW THE DIMENSION STRING FOLLOWING THE AWI NUMBER: "-L".

INTERIOR FINISH ABBREVIATIONS

ACT	ACOUSTICAL CEILING TILE
AP	ACOUSTICAL PANEL
AWC	ACOUSTICAL WALLCOVERING
BR	BUMPER RAIL
CC	CUBICLE CURTAIN
CG	CORNER GUARD
CGS	CEILING SYSTEM
CHR	CHAIR RAIL
CM	CULTURED MARBLE
CPT	CARPET
CR	CRASH RAIL
CT	CERAMIC TILE
DM	DECORATIVE METAL
DP	DOOR PROTECTION
DPG	DECORATIVE PLASTIC GLAZING
EP	EPOXY PAINT
FA	FABRIC
FRP	FIBERGLASS REINFORCED PANEL
GF	GLASS FILM
GL	GLASS
GT	GLASS TILE
HR	HAND RAIL
LR	LEANING RAIL
LVT	LUXURY VINYL TILE
MT	METAL TILE
NS	NATURAL STONE
PLAM	PLASTIC LAMINATE
PNT	PAINT

PSTR	PAINTED STRUCTURE
PT	PORCELAIN TILE
QT	QUARRY TILE
QZ	QUARTZ
RB	RUBBER BASE
RES	RESINOUS POURED FLOORING
RF	RESILIENT FLOORING
RT	RUBBER TILE
SC	SPECIALTY COATING
SCONC	SEALED CONCRETE
SHC	SHOWER CURTAIN
SMP	SOLID MINERAL PROFILE PANELING
SP	SOLID PHENOLIC
SS	SOLID SURFACE
ST	STAIR TREADS
STCONC	STAINED CONCRETE
SV	SHEET VINYL
TF	THERMOFOIL
TP	TOILET PARTITION
TZ	TERRAZZO
VB	VINYL BASE
VCT	VINYL COMPOSITION TILE
WC	WALLCOVERING
WD	WOOD
WOM	WALK-OFF MAT
WP	WALL PROTECTION
WT	WINDOW TREATMENT
WWP	WOOD WALL PANEL

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Signature_____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

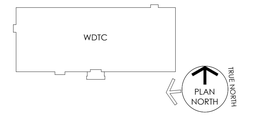
12401 WILLOWBROOK RD, SE CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

INTERIOR FINISH SCHEDULE & NOTES

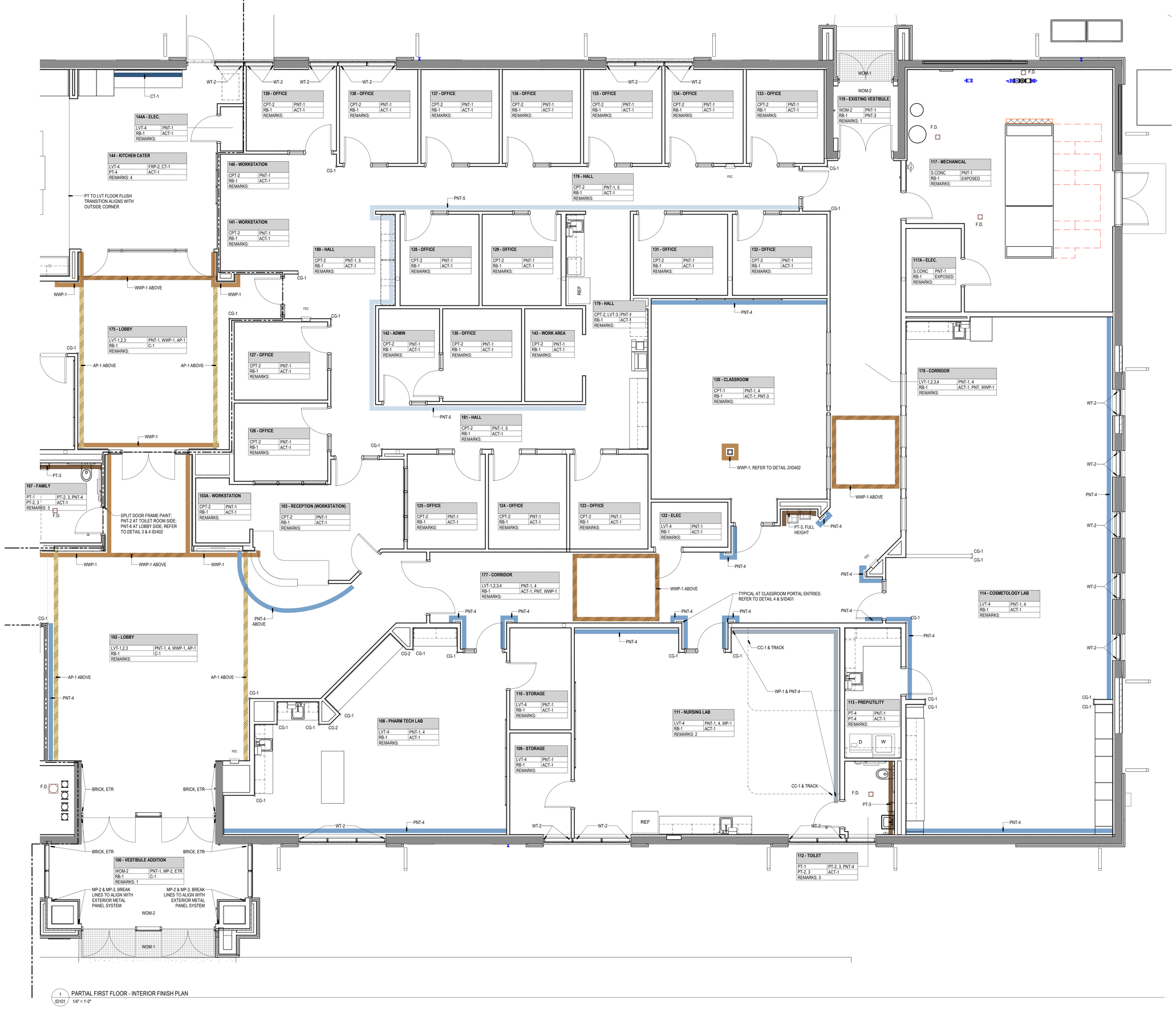
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ID001

SHEET 45 OF 172

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1 ID101 PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN
1/4" = 1'-0"

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Signature _____ Date _____
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PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

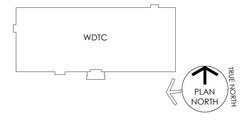
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

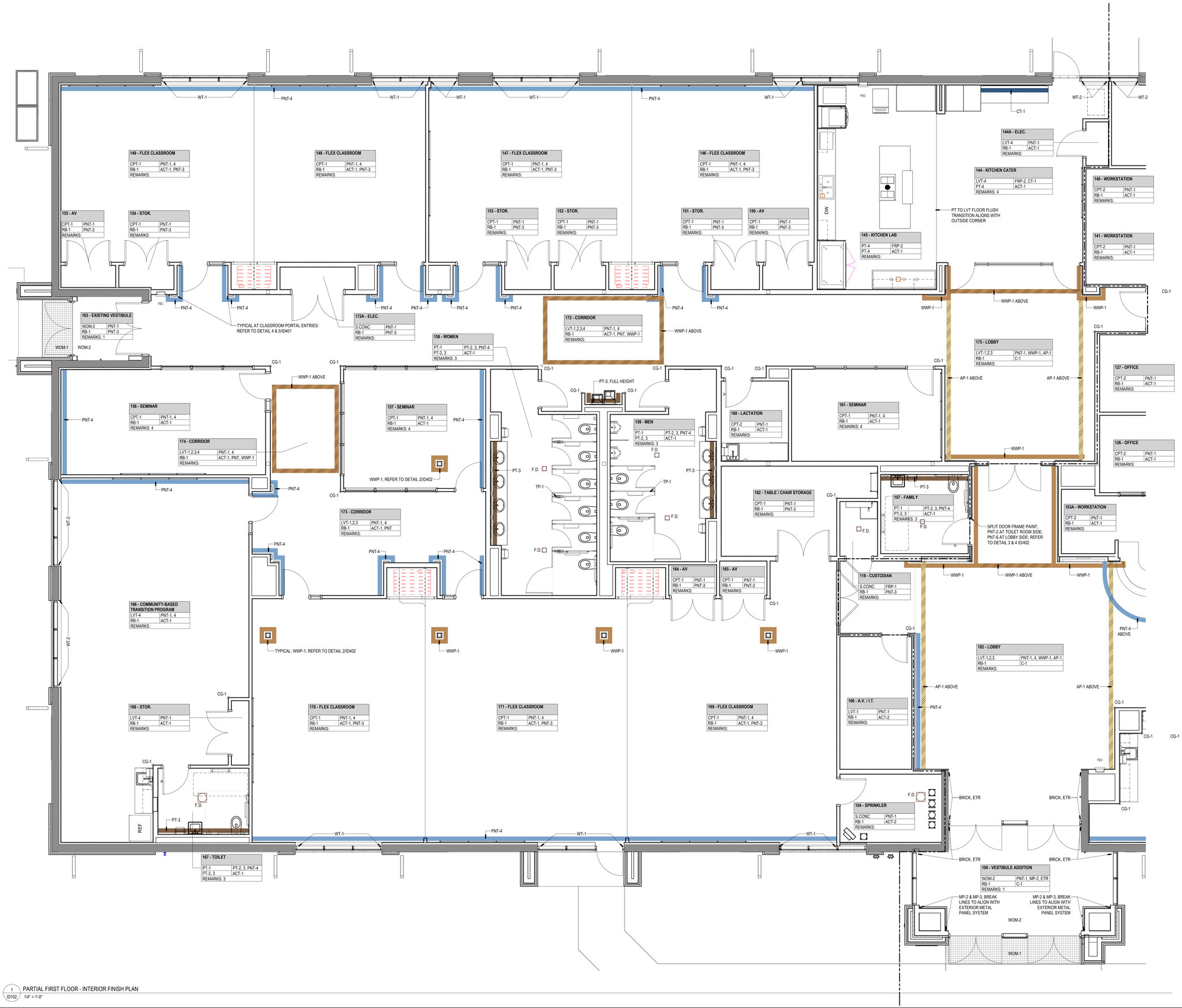
PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN

SHEET NUMBER:

ID101

SHEET 46 OF 172

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1 ID102 PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN
1/4" = 1'-0"

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Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

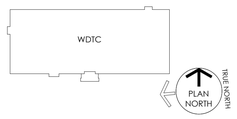
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PARTIAL FIRST FLOOR - INTERIOR FINISH PLAN

SHEET NUMBER:

ID102

SHEET 47 OF 172

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1 ID201 PARTIAL FIRST FLOOR - INTERIOR FLOOR PLAN

1/4" = 1'-0"

NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON. REFER TO ID001 FOR TOILET ACCESSORY SCHEDULE & APPLIANCE / EQUIPMENT SCHEDULE.

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Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

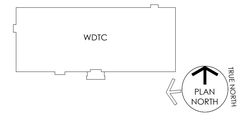
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
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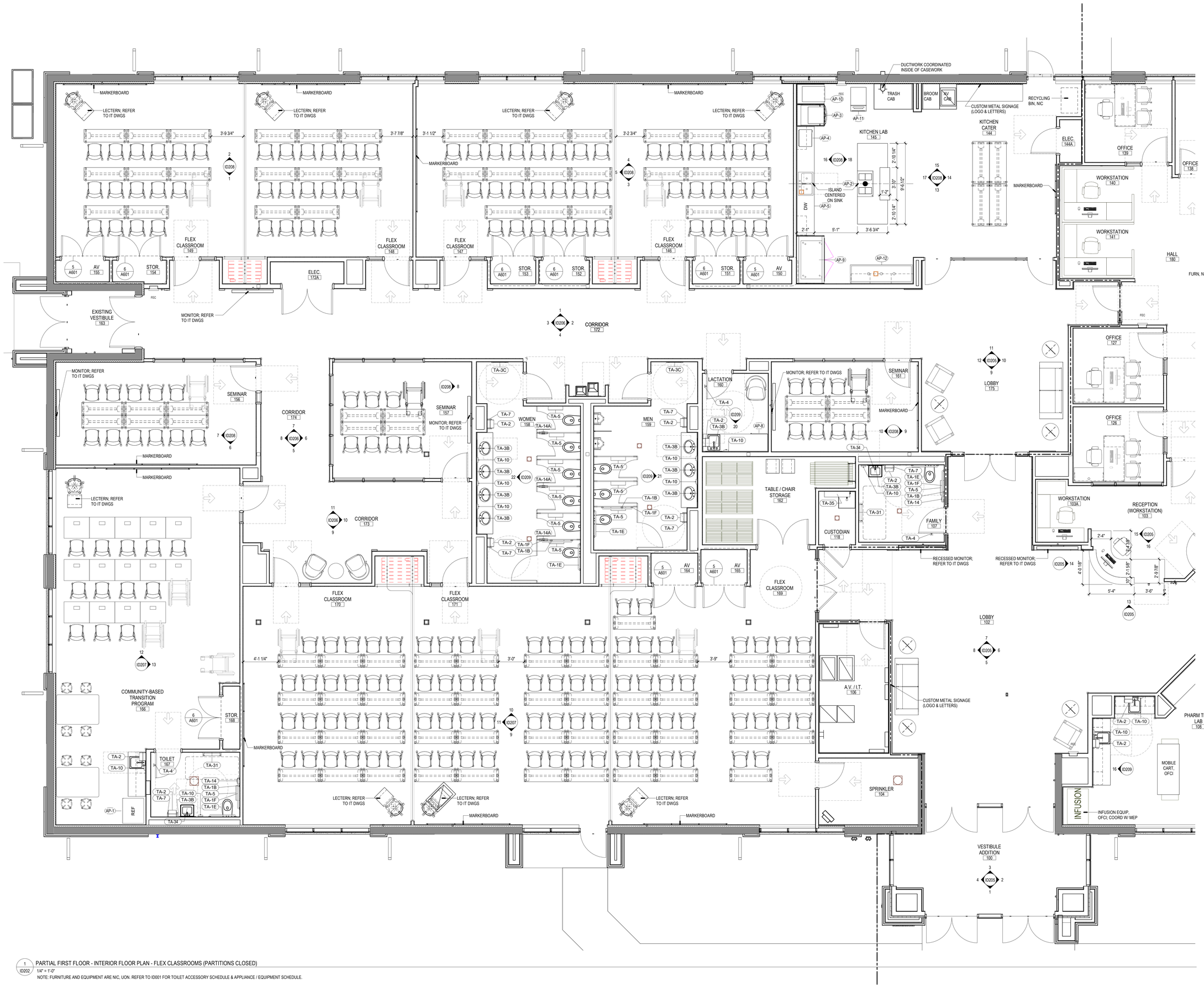
PARTIAL FIRST FLOOR - INTERIOR FLOOR PLAN

SHEET NUMBER:

ID201

SHEET 48 OF 172

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1 ID202 PARTIAL FIRST FLOOR - INTERIOR FLOOR PLAN - FLEX CLASSROOMS (PARTITIONS CLOSED)
1/4" = 1'-0"
NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON. REFER TO ID001 FOR TOILET ACCESSORY SCHEDULE & APPLIANCE / EQUIPMENT SCHEDULE.

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PROJECT TEAM

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Signature _____ Date _____
License # _____ Expiration Date __/__/____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

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	100% CONSTRUCTION DOCUMENTS	09/25/2026
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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
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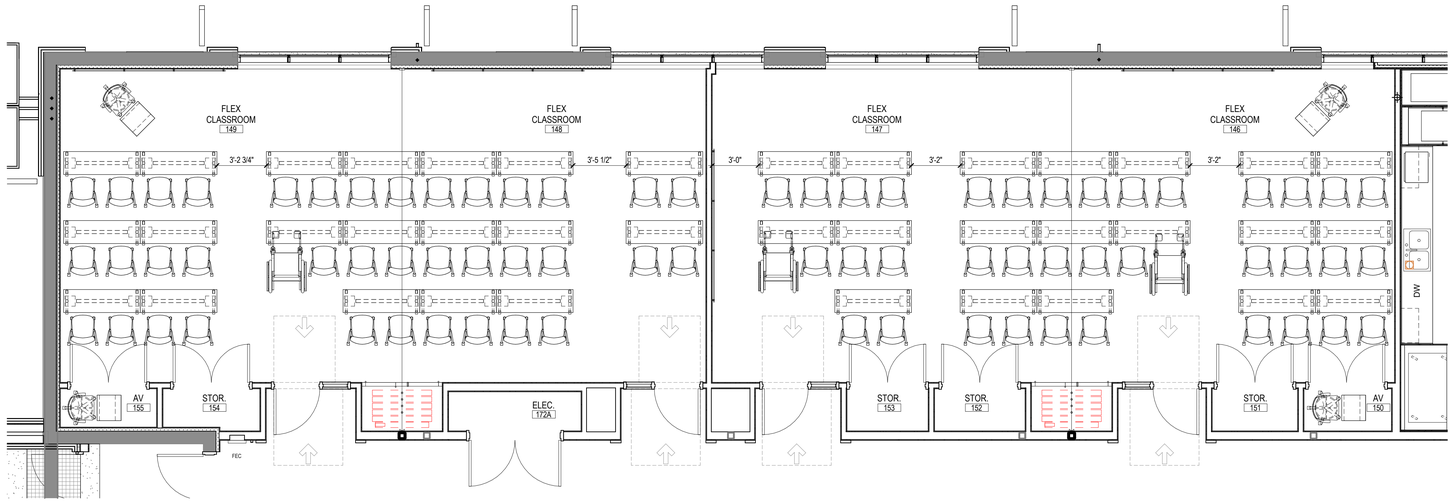
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SHEET NUMBER:

ID202

SHEET 49 OF 172

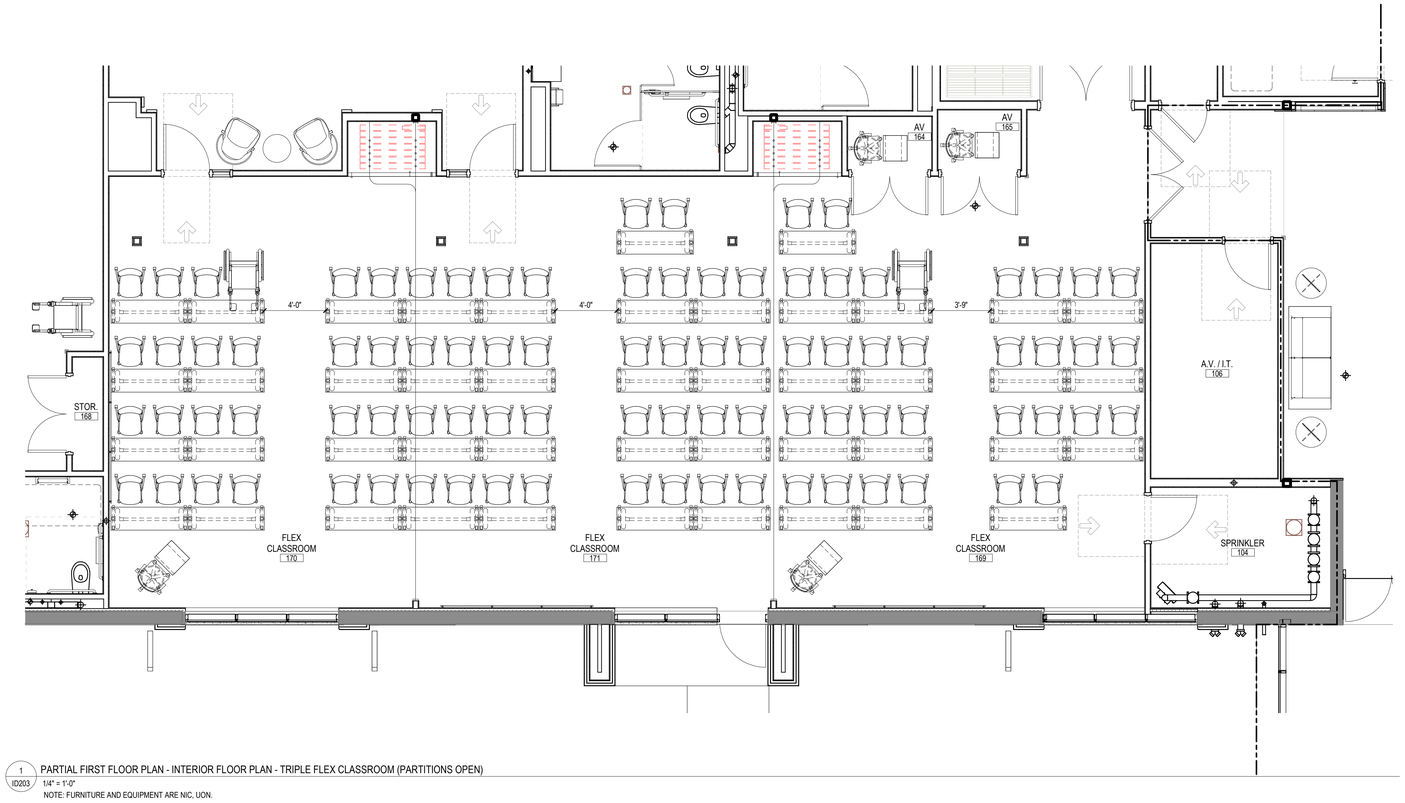
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2 ID203 PARTIAL FIRST FLOOR PLAN - INTERIOR FLOOR PLAN - DOUBLE FLEX CLASSROOM (PARTITIONS OPEN)

1/4" = 1'-0"

NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON.



1 ID203 PARTIAL FIRST FLOOR PLAN - INTERIOR FLOOR PLAN - TRIPLE FLEX CLASSROOM (PARTITIONS OPEN)

1/4" = 1'-0"

NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON.

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Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

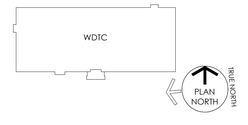
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NHA

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ISSUE DATE: **11/06/2026**
SHEET TITLE:

PARTIAL FIRST FLOOR - INTERIOR FLOOR PLANS - FLEX CLASSROOMS FURNITURE LAYOUT ALTERNATES

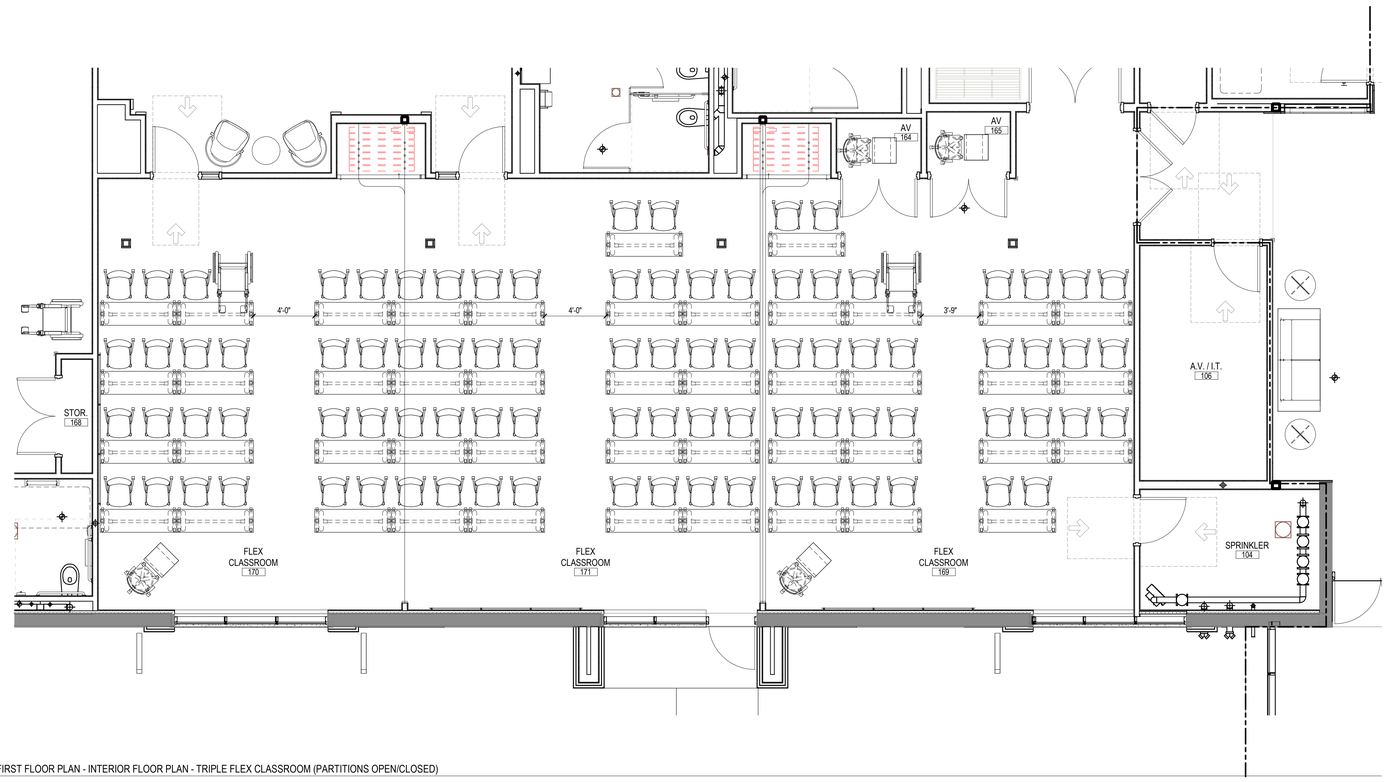
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ID203

SHEET 50 OF 172

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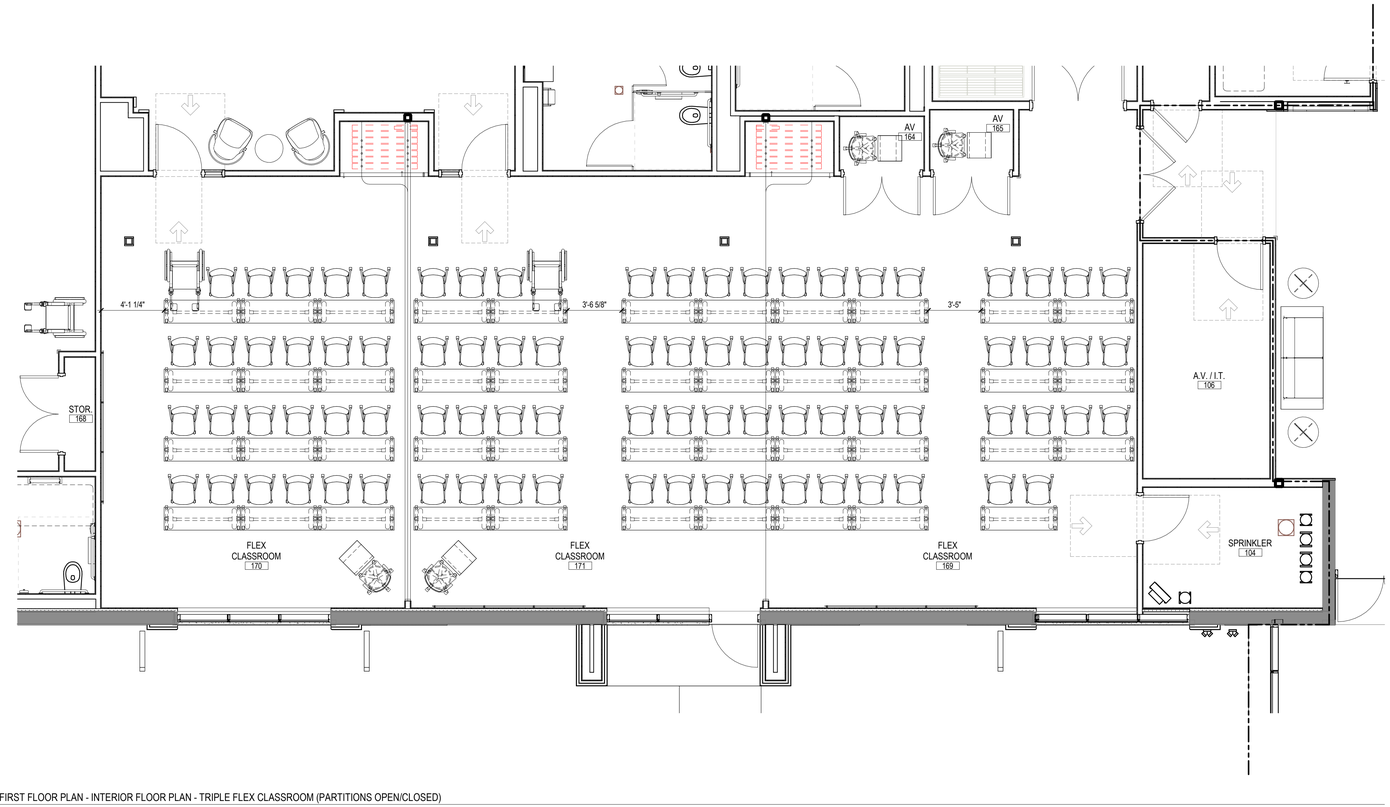
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2 ID204 PARTIAL FIRST FLOOR PLAN - INTERIOR FLOOR PLAN - TRIPLE FLEX CLASSROOM (PARTITIONS OPEN/CLOSED)

1/4" = 1'-0"

NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON.



1 ID204 PARTIAL FIRST FLOOR PLAN - INTERIOR FLOOR PLAN - TRIPLE FLEX CLASSROOM (PARTITIONS OPEN/CLOSED)

1/4" = 1'-0"

NOTE: FURNITURE AND EQUIPMENT ARE NIC, UON.

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

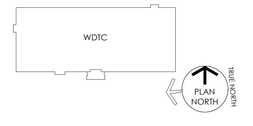
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

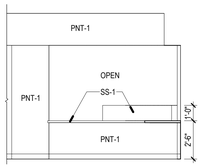
PARTIAL FIRST FLOOR - INTERIOR FLOOR PLANS - FLEX CLASSROOMS FURNITURE LAYOUT ALTERNATES

SHEET NUMBER:

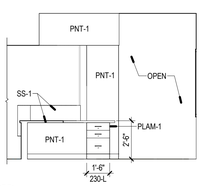
ID204

SHEET 51 OF 172

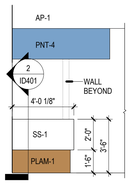
© 2026 NOELKER AND HULL ASSOCIATES, INC.



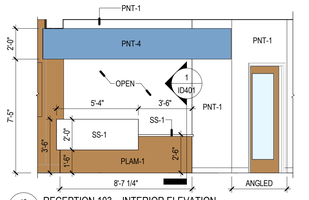
16 ID205 RECEPTION 103 - INTERIOR ELEVATION
1/4" = 1'-0"



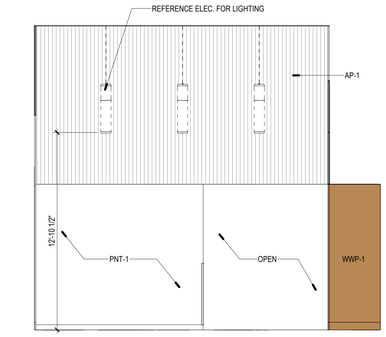
15 ID205 RECEPTION 103 - INTERIOR ELEVATION
1/4" = 1'-0"



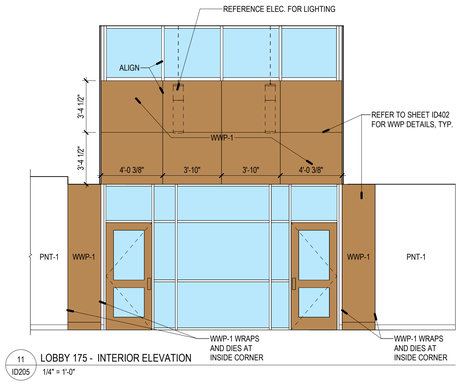
14 ID205 RECEPTION 103 - INTERIOR ELEVATION
1/4" = 1'-0"



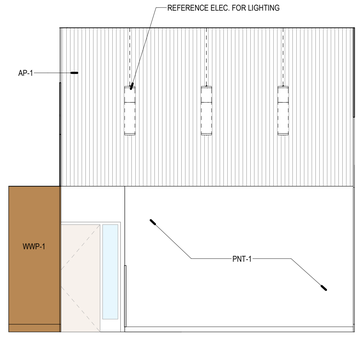
13 ID205 RECEPTION 103 - INTERIOR ELEVATION
1/4" = 1'-0"



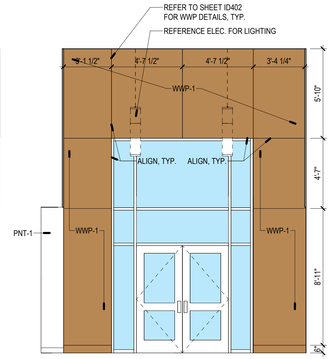
12 ID205 LOBBY 175 - INTERIOR ELEVATION
1/4" = 1'-0"



11 ID205 LOBBY 175 - INTERIOR ELEVATION
1/4" = 1'-0"

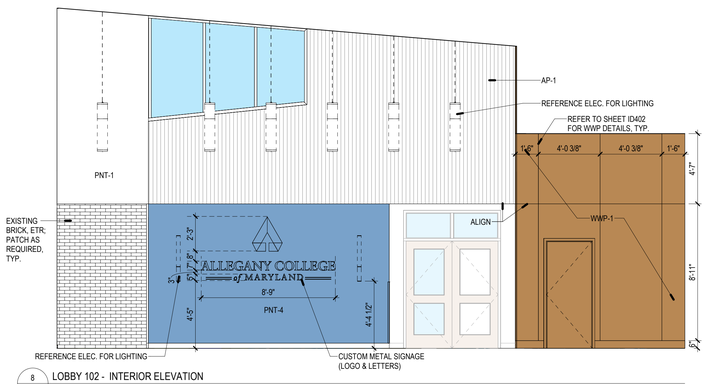


10 ID205 LOBBY 175 - INTERIOR ELEVATION
1/4" = 1'-0"

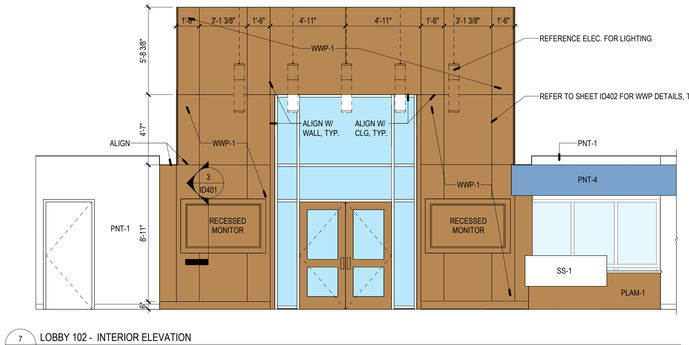


9 ID205 LOBBY 175 - INTERIOR ELEVATION
1/4" = 1'-0"

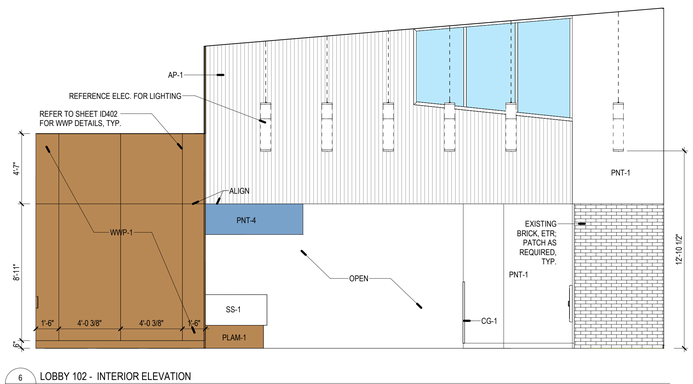
NOTE: FOR ADDITIONAL INFORMATION REGARDING MILLWORK WALL PANELS, REVEALS, AND COLUMNS, REFER TO DETAILS AND SECTIONS SHOWN ON ID402.



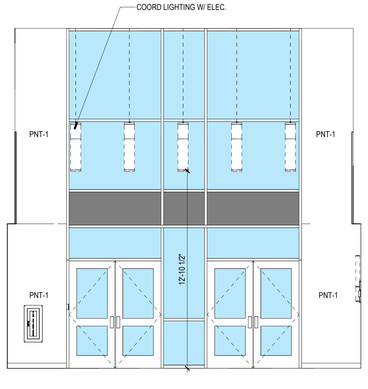
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1/4" = 1'-0"



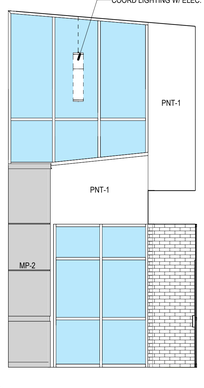
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1/4" = 1'-0"



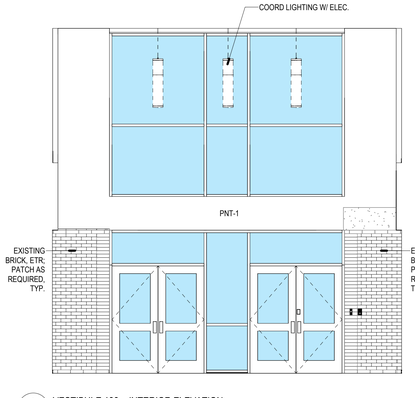
6 ID205 LOBBY 102 - INTERIOR ELEVATION
1/4" = 1'-0"



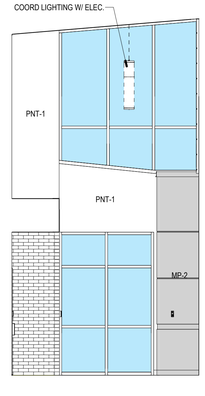
5 ID205 LOBBY 102 - INTERIOR ELEVATION
1/4" = 1'-0"



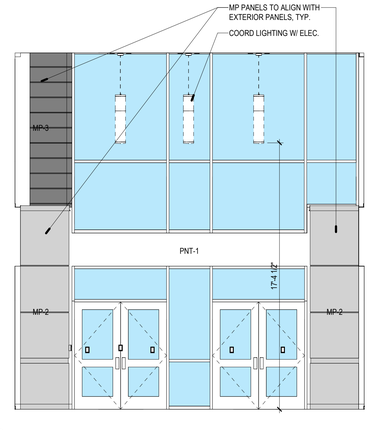
4 ID205 VESTIBULE 100 - INTERIOR ELEVATION
1/4" = 1'-0"



3 ID205 VESTIBULE 100 - INTERIOR ELEVATION
1/4" = 1'-0"



2 ID205 VESTIBULE 100 - INTERIOR ELEVATION
1/4" = 1'-0"



1 ID205 VESTIBULE 100 - INTERIOR ELEVATION
1/4" = 1'-0"

11/4/2026 9:04:01 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
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Structural Engineers
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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

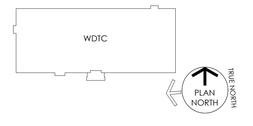
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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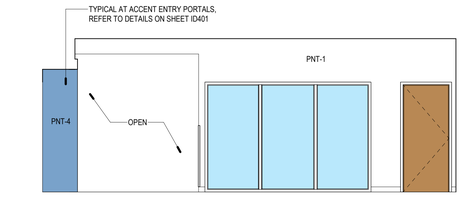
INTERIOR ELEVATIONS

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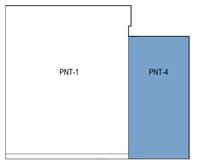
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SHEET 52 OF 172

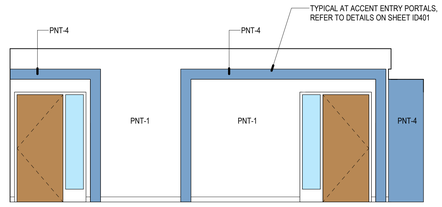
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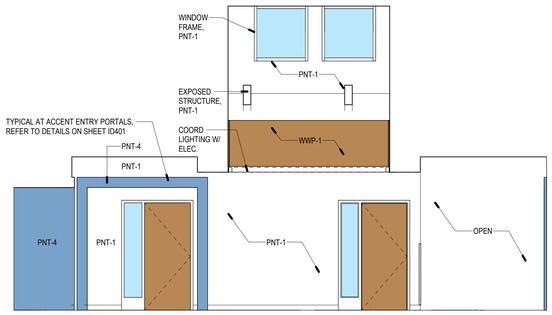
11 ID206 CORRIDOR 173 - INTERIOR ELEVATION
1/4" = 1'-0"



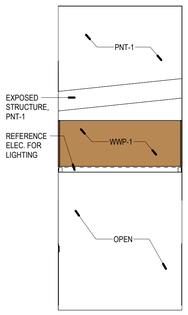
10 ID206 CORRIDOR 173 - INTERIOR ELEVATION
1/4" = 1'-0"



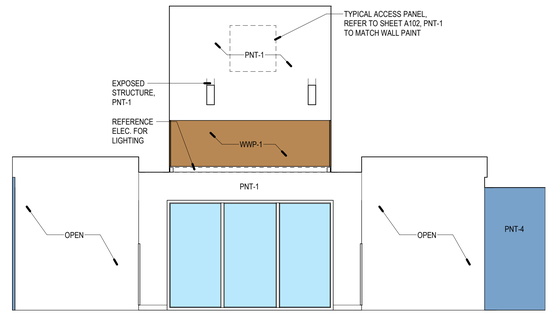
9 ID206 CORRIDOR 173 - INTERIOR ELEVATION
1/4" = 1'-0"



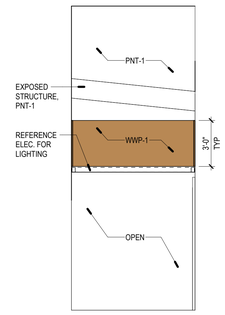
8 ID206 CORRIDOR 174 - INTERIOR ELEVATION
1/4" = 1'-0"



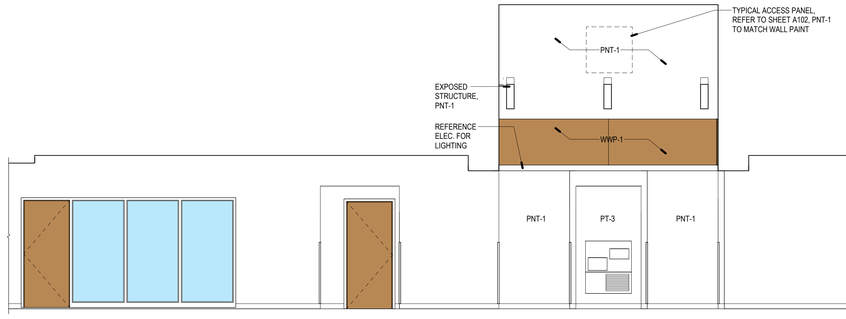
7 ID206 CORRIDOR 174 - INTERIOR ELEVATION
1/4" = 1'-0"



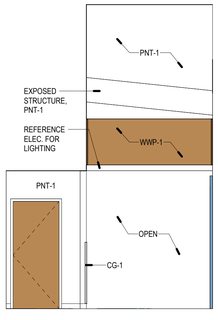
6 ID206 CORRIDOR 174 - INTERIOR ELEVATION
1/4" = 1'-0"



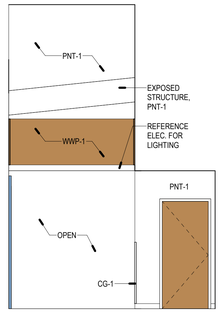
5 ID206 CORRIDOR 174 - INTERIOR ELEVATION
1/4" = 1'-0"



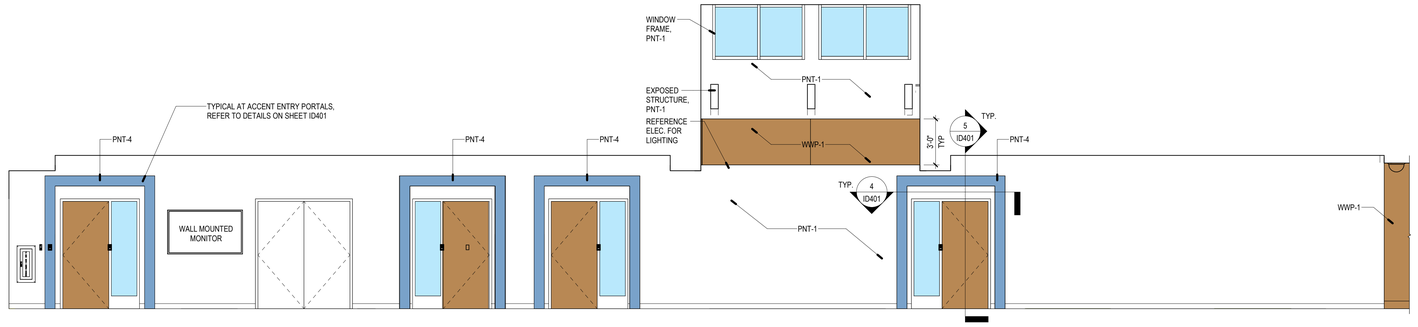
4 ID206 CORRIDOR 172 - INTERIOR ELEVATION
1/4" = 1'-0"



3 ID206 CORRIDOR 172 - INTERIOR ELEVATION
1/4" = 1'-0"



2 ID206 CORRIDOR 172 - INTERIOR ELEVATION
1/4" = 1'-0"



1 ID206 CORRIDOR 172 - INTERIOR ELEVATION
1/4" = 1'-0"

Autodesk Docs://25909 Allegany College of MD_ACM-WTDC Renovation\25909_Allegany College_V25.rvt
11/6/2025 9:04:04 AM

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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TRIAD ENGINEERING, INC.
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P: 301.797.6400 | F: 301.797.2424

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Structural Engineers
5235 Westview Drive
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Frederick, MD | 21703
P: 301.258.8884

Henry Adams, LLC
600 Baltimore Ave
Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

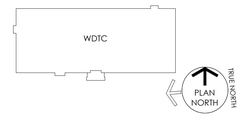
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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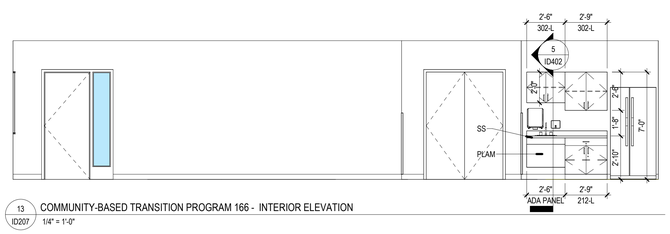
INTERIOR ELEVATIONS

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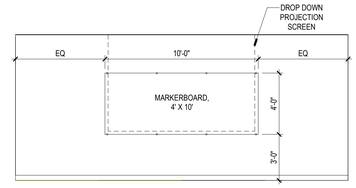
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SHEET 53 OF 172

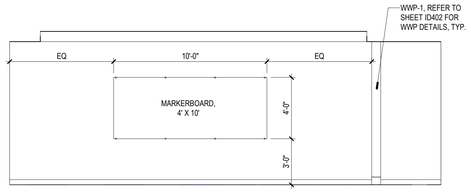
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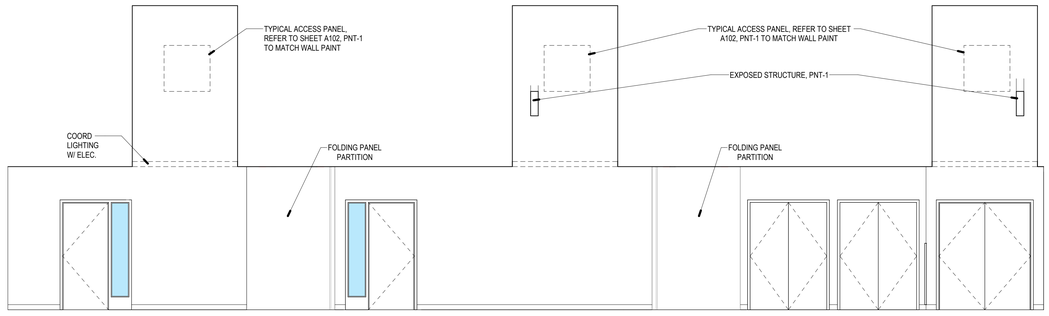
13 ID207 COMMUNITY-BASED TRANSITION PROGRAM 166 - INTERIOR ELEVATION
1/4" = 1'-0"



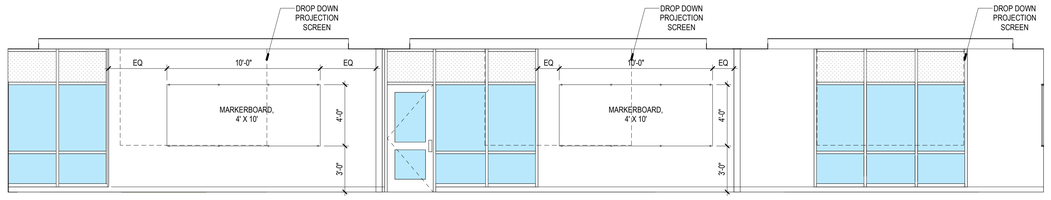
12 ID207 COMMUNITY-BASED TRANSITION PROGRAM 166 - INTERIOR ELEVATION
1/4" = 1'-0"



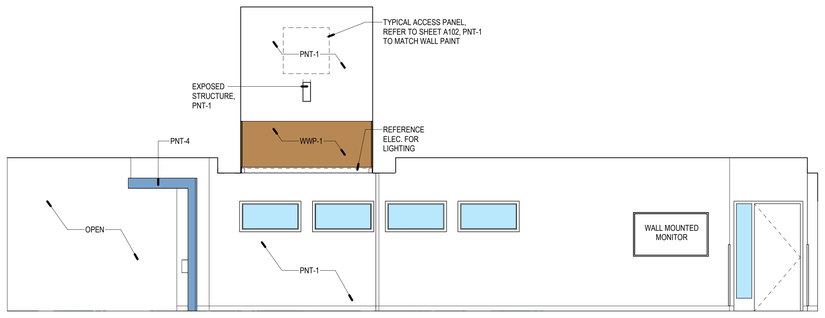
11 ID207 TRIPLE FLEX CLASSROOM 169, 170, 171 - INTERIOR ELEVATION
1/4" = 1'-0"



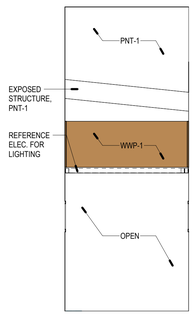
10 ID207 TRIPLE FLEX CLASSROOM 169, 170, 171 - INTERIOR ELEVATION
1/4" = 1'-0"



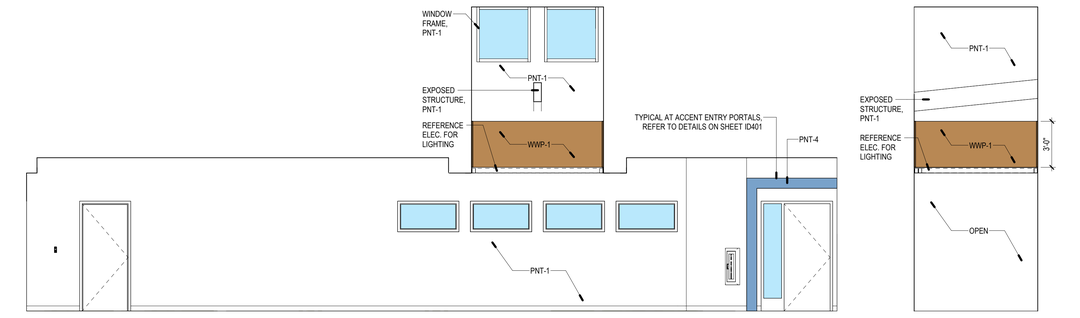
9 ID207 TRIPLE FLEX CLASSROOM 169, 170, 171 - INTERIOR ELEVATION
1/4" = 1'-0"



8 ID207 CORRIDOR 178 - INTERIOR ELEVATION
1/4" = 1'-0"

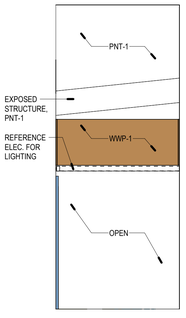


7 ID207 CORRIDOR 178 - INTERIOR ELEVATION
1/4" = 1'-0"

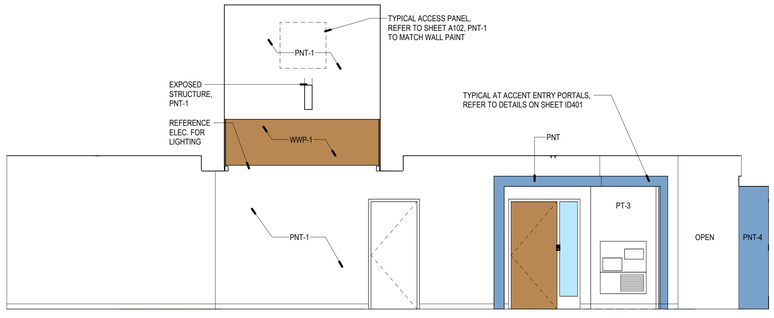


6 ID207 CORRIDOR 178 - INTERIOR ELEVATION
1/4" = 1'-0"

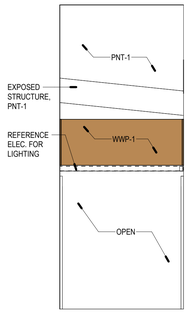
5 ID207 CORRIDOR 178 - INTERIOR ELEVATION
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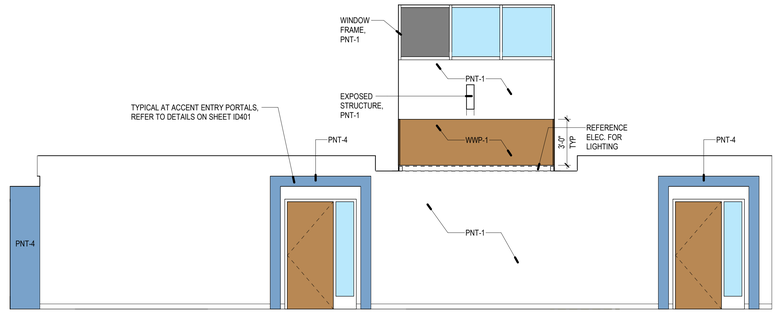
4 ID207 CORRIDOR 177 - INTERIOR ELEVATION
1/4" = 1'-0"



3 ID207 CORRIDOR 177 - INTERIOR ELEVATION
1/4" = 1'-0"



2 ID207 CORRIDOR 177 - INTERIOR ELEVATION
1/4" = 1'-0"



1 ID207 CORRIDOR 177 - INTERIOR ELEVATION
1/4" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
NOELKERHULL.COM

TRIAD ENGINEERING, INC.
1075 D Sherman Ave
Hagerstown, MD | 21740
P: 301.797.6400 | F: 301.797.2424

Advanced Consulting Engineers P.A.
Structural Engineers
5235 Westview Drive
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Frederick, MD | 21703
P: 301.258.8884

Henry Adams, LLC
600 Baltimore Ave
Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

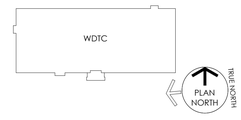
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

INTERIOR ELEVATIONS

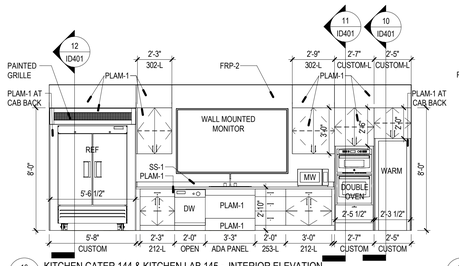
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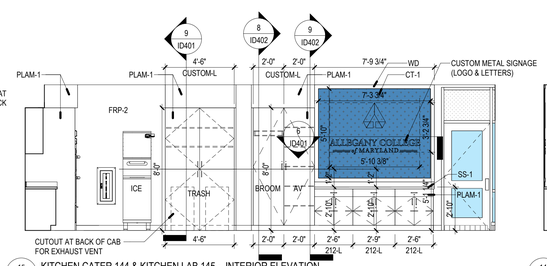
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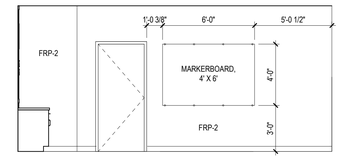
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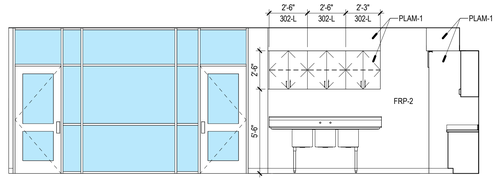
16 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



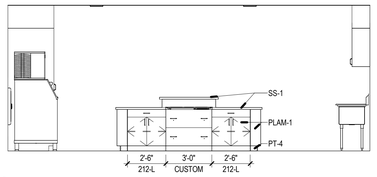
15 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



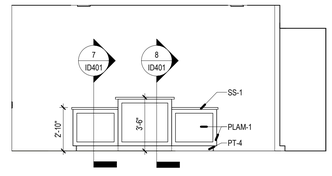
14 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



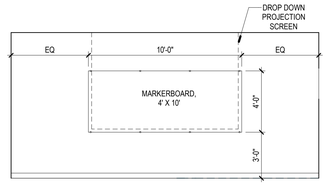
13 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



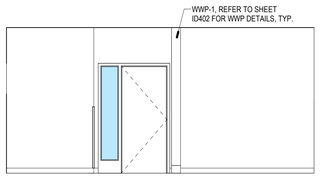
18 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



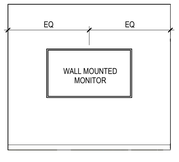
17 ID208 KITCHEN CATER 144 & KITCHEN LAB 145 - INTERIOR ELEVATION
1/4" = 1'-0"



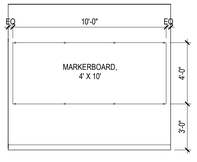
12 ID208 CLASSROOM 120 - INTERIOR ELEVATION
1/4" = 1'-0"



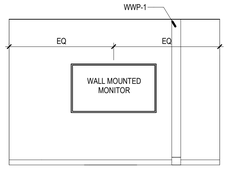
11 ID208 CLASSROOM 120 - INTERIOR ELEVATION
1/4" = 1'-0"



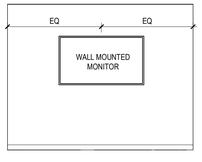
10 ID208 SEMINAR 161 - INTERIOR ELEVATION
1/4" = 1'-0"



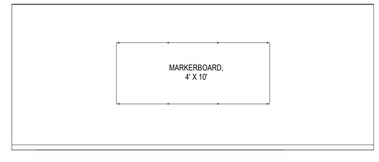
9 ID208 SEMINAR 161 - INTERIOR ELEVATION
1/4" = 1'-0"



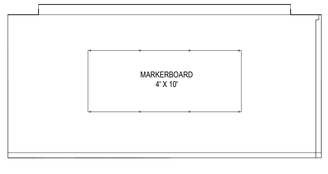
8 ID208 SEMINAR 157 - INTERIOR ELEVATION
1/4" = 1'-0"



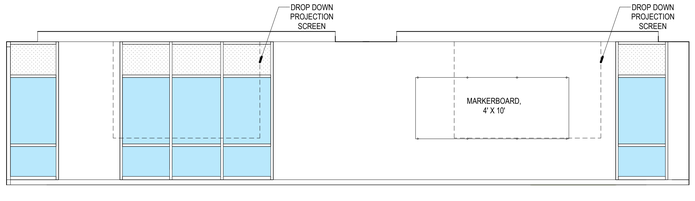
7 ID208 SEMINAR 156 - INTERIOR ELEVATION
1/4" = 1'-0"



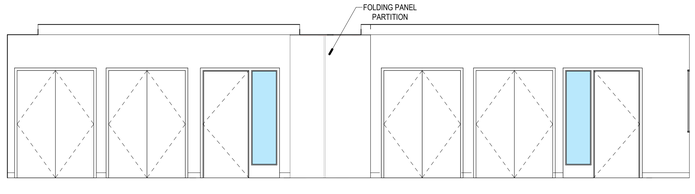
6 ID208 SEMINAR 156 - INTERIOR ELEVATION
1/4" = 1'-0"



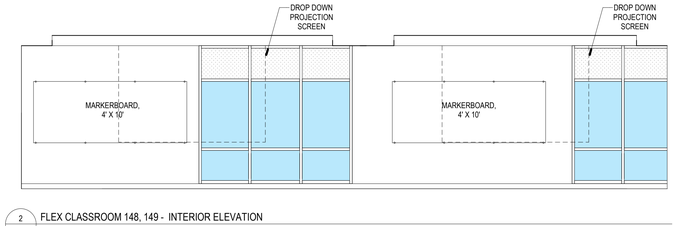
5 ID208 FLEX CLASSROOM 146, 147 - INTERIOR ELEVATION
1/4" = 1'-0"



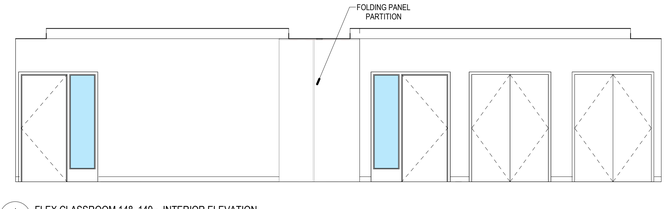
4 ID208 FLEX CLASSROOM 146, 147 - INTERIOR ELEVATION
1/4" = 1'-0"



3 ID208 FLEX CLASSROOM 146, 147 - INTERIOR ELEVATION
1/4" = 1'-0"



2 ID208 FLEX CLASSROOM 148, 149 - INTERIOR ELEVATION
1/4" = 1'-0"



1 ID208 FLEX CLASSROOM 148, 149 - INTERIOR ELEVATION
1/4" = 1'-0"

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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P: 301.797.6400 | F: 301.797.2424

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Structural Engineers
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Frederick, MD | 21703
P: 301.258.8884

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Suite 400
Baltimore, MD | 21204
P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

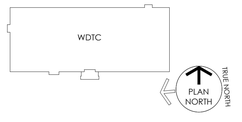
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
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	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

INTERIOR ELEVATIONS

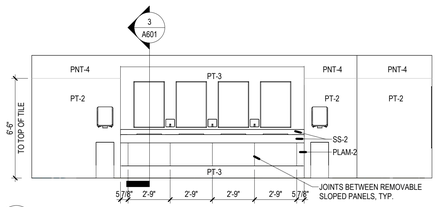
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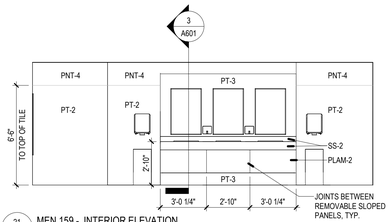
SHEET 55 OF 172

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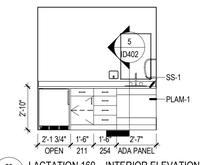
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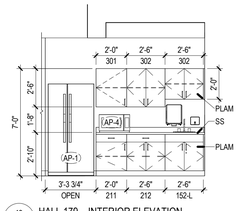
22 ID209 WOMEN 158 - INTERIOR ELEVATION
1/4" = 1'-0"



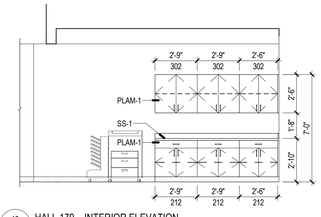
21 ID209 MEN 159 - INTERIOR ELEVATION
1/4" = 1'-0"



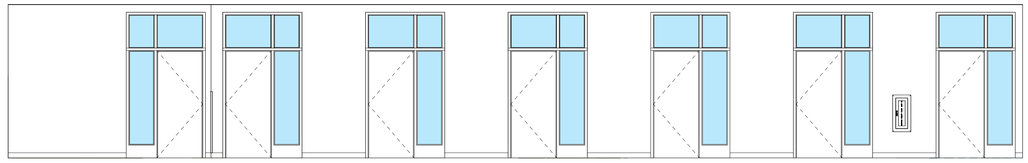
20 ID209 LACTATION 160 - INTERIOR ELEVATION
1/4" = 1'-0"



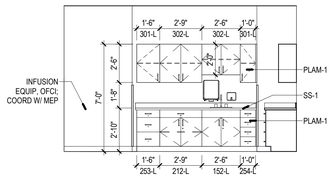
19 ID209 HALL 179 - INTERIOR ELEVATION
1/4" = 1'-0"



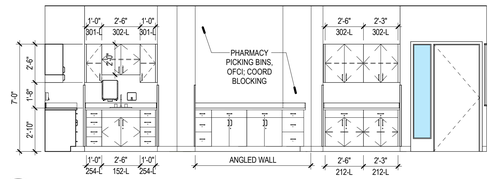
18 ID209 HALL 179 - INTERIOR ELEVATION
1/4" = 1'-0"



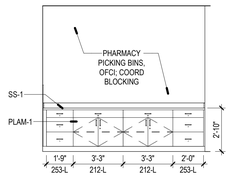
17 ID209 HALL 176 - INTERIOR ELEVATION
1/4" = 1'-0"



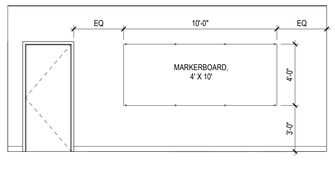
16 ID209 PHARM TECH LAB 108 - INTERIOR ELEVATION
1/4" = 1'-0"



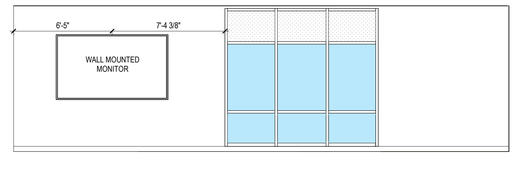
15 ID209 PHARM TECH LAB 108 - INTERIOR ELEVATION
1/4" = 1'-0"



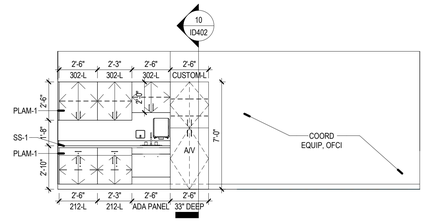
14 ID209 PHARM TECH LAB 108 - INTERIOR ELEVATION
1/4" = 1'-0"



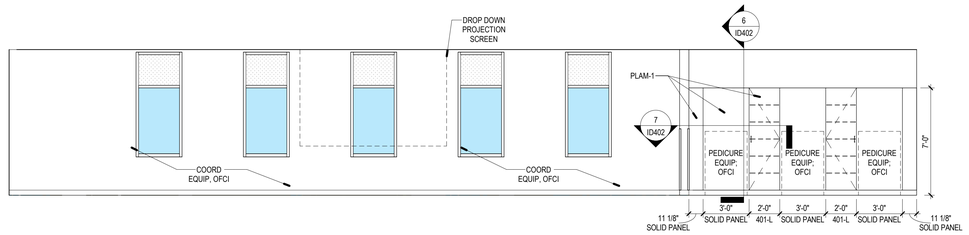
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1/4" = 1'-0"



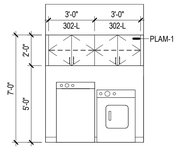
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1/4" = 1'-0"



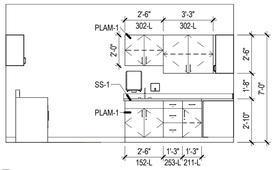
11 ID209 COSMETOLOGY LAB 114 - INTERIOR ELEVATION
1/4" = 1'-0"



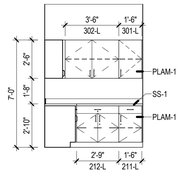
10 ID209 COSMETOLOGY LAB 114 - INTERIOR ELEVATION
1/4" = 1'-0"



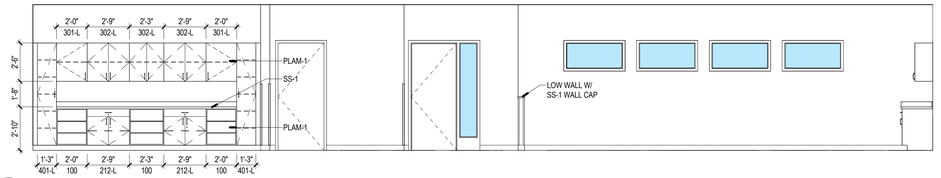
9 ID209 PREP/UTILITY 113 - INTERIOR ELEVATION
1/4" = 1'-0"



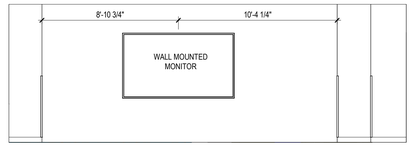
8 ID209 PREP/UTILITY 113 - INTERIOR ELEVATION
1/4" = 1'-0"



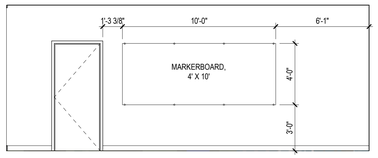
7 ID209 PREP/UTILITY 113 - INTERIOR ELEVATION
1/4" = 1'-0"



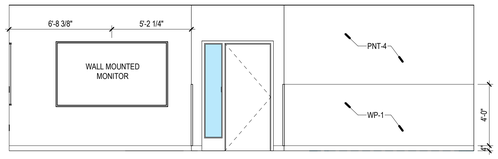
6 ID209 COSMETOLOGY LAB 114 - INTERIOR ELEVATION
1/4" = 1'-0"



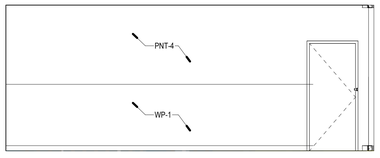
5 ID209 COSMETOLOGY LAB 114 - INTERIOR ELEVATION
1/4" = 1'-0"



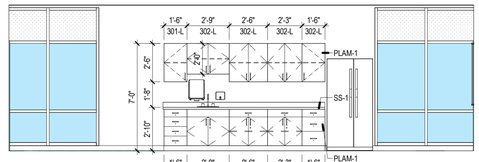
4 ID209 NURSING LAB 111 - INTERIOR ELEVATION
1/4" = 1'-0"



3 ID209 NURSING LAB 111 - INTERIOR ELEVATION
1/4" = 1'-0"



2 ID209 NURSING LAB 111 - INTERIOR ELEVATION
1/4" = 1'-0"



1 ID209 NURSING LAB 111 - INTERIOR ELEVATION
1/4" = 1'-0"

PROJECT TEAM

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FREDERICK, MD | 21701-5680
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Structural Engineers
5235 Westview Drive
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Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/___

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

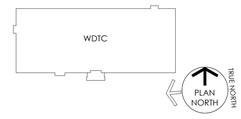
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

INTERIOR ELEVATIONS

SHEET NUMBER:

ID209

SHEET 56 OF 172

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Autodesk Docs://25909 Allegany College of MD ACM.VIITTO Renovation/25909_Allegany College_V25.rvt
11/4/2025 9:04:16 AM



1 / ID301 PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN
1/4" = 1'-0"

11/4/2026 9:04:17 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

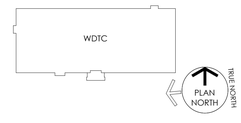
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN

SHEET NUMBER:

ID301

SHEET 57 OF 172

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TYP. FLOORING TRANSITIONS SHALL BE LOCATED AT CL OF DOORS

FLEX CLASSROOM 148 | FLEX CLASSROOM 148 | FLEX CLASSROOM 147 | FLEX CLASSROOM 146
AV 155 | STOR. 154 | STOR. 153 | STOR. 152 | STOR. 151 | AV 150
KITCHEN LAB 145 | KITCHEN CATER 144 | ELEC. 144A
OFFICE 139 | OFFICE 138
WORKSTATION 140 | WORKSTATION 141 | CPT-2 PATTERN RUNS PLAN EAST-WEST TYP.
HALL 180
ELEC. 172A
WOM-1 | WOM-2 | EXISTING VESTIBULE 183
14'-3 1/2" VIF | CORRIDOR 172 | ALIGNS W/ BULKHEAD ABOVE | ALIGN, TYP.
LOBBY 175 | 10'-1 1/2" VIF | 13'-2 3/4"
OFFICE 127 | OFFICE 128
SEMINAR 156 | CORRIDOR 174 | SEMINAR 157
WOMEN 158 | MEN 159
LACTATION 160 | SEMINAR 161
TABLE / CHAIR STORAGE 162
CUSTODIAN 118 | FAMILY 107
WORKSTATION 103A | RECEPTION (WORKSTATION) 103
CORRIDOR 173
COMMUNITY-BASED TRANSITION PROGRAM 166
AV 164 | AV 165
FLEX CLASSROOM 170 | FLEX CLASSROOM 171 | FLEX CLASSROOM 169
STOR 168 | TOILET 167
A.V. / I.T. 106 | SPRINKLER 104
LOBBY 102 | 14'-0 3/4" VIF | 15'-0 1/8" VIF
VESTIBULE ADDITION 100 | WOM-2 | WOM-1

1 ID302 PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN
1/4" = 1'-0"

11/6/2026 9:04:19 AM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/25909_Allegany College_V25.rvt

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PROJECT ADDRESS

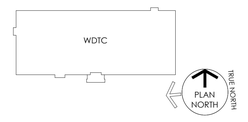
12401 WILLOWBROOK RD, SE
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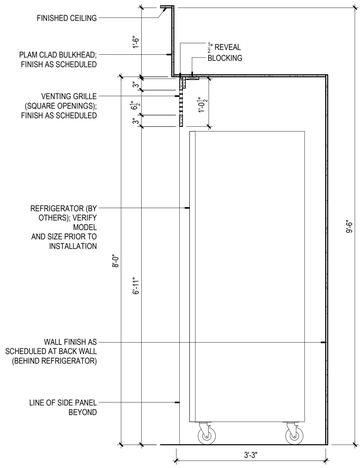
PARTIAL FIRST FLOOR - INTERIOR FLOOR PATTERN PLAN

SHEET NUMBER:

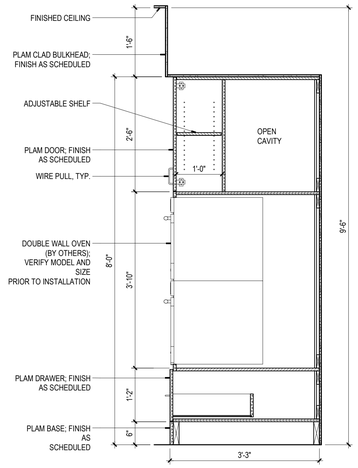
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SHEET 58 OF 172

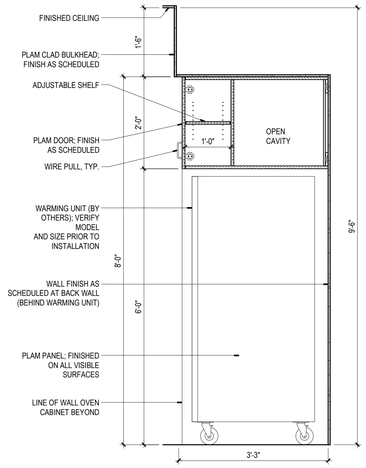
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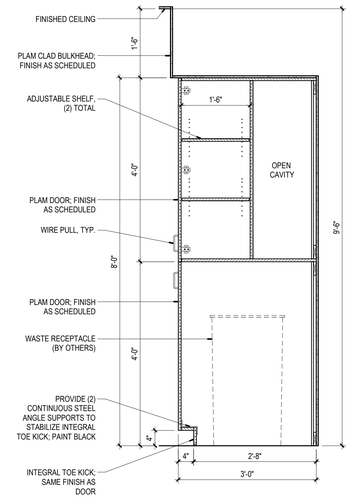
12 ID401 KITCHEN LAB 145 REFRIGERATOR CABINET DETAIL
3/4" = 1'-0"



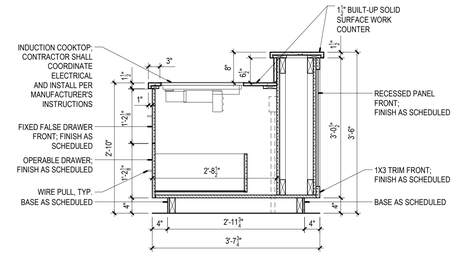
11 ID401 KITCHEN LAB 145 DOUBLE WALL OVEN CABINET DETAIL
3/4" = 1'-0"



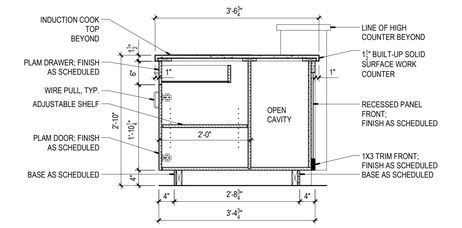
10 ID401 KITCHEN LAB 145 WARMING CABINET DETAIL
3/4" = 1'-0"



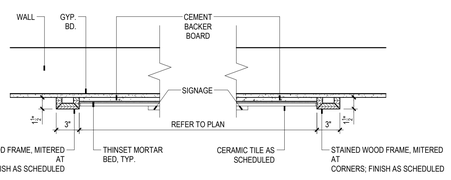
9 ID401 KITCHEN LAB 145 TRASH RECEPTACLE CABINET
3/4" = 1'-0"



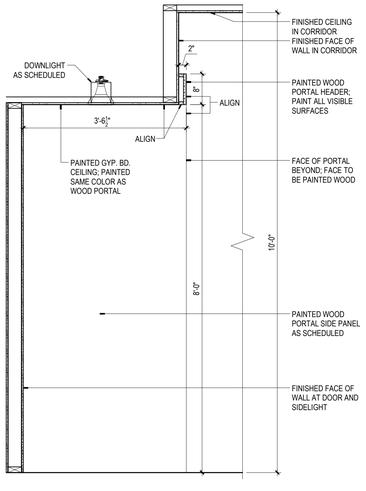
8 ID401 KITCHEN CATER 144 ISLAND DETAIL
3/4" = 1'-0"



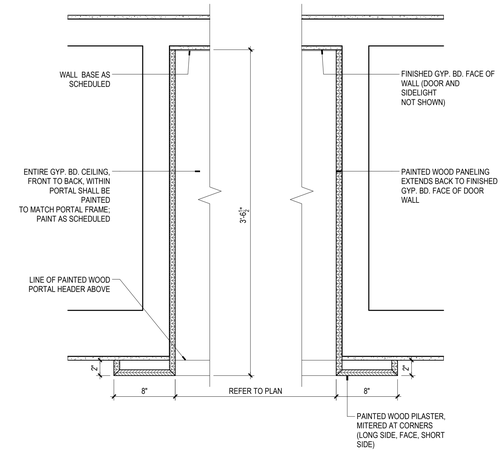
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3/4" = 1'-0"



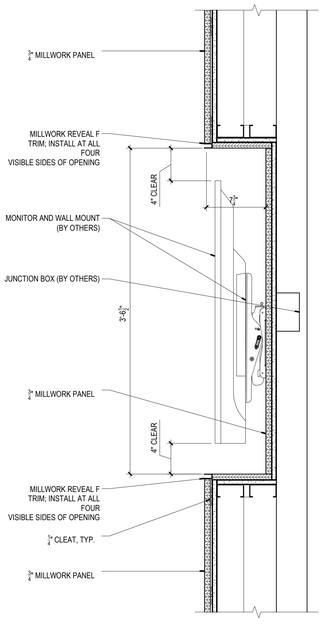
6 ID401 KITCHEN CATER 144 SIGNAGE WALL DETAIL
1 1/2" = 1'-0"



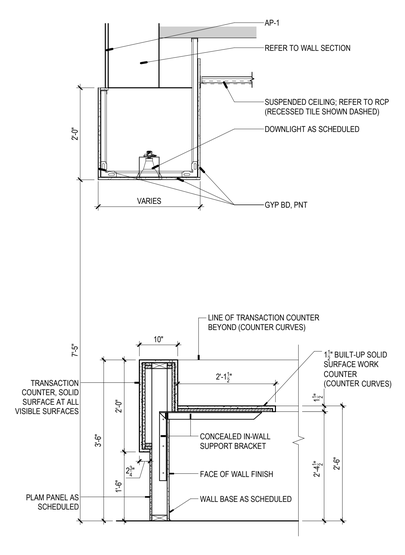
5 ID401 CORRIDOR ENTRY PORTAL SECTION
3/4" = 1'-0"



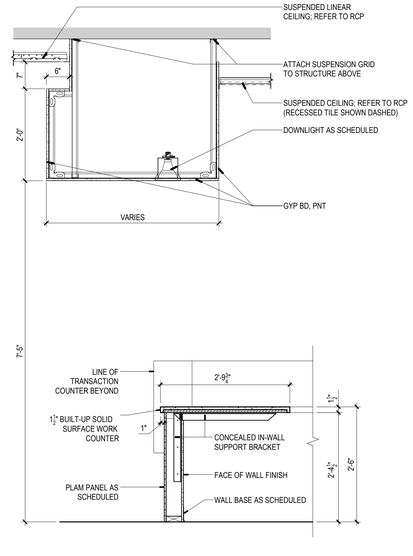
4 ID401 CORRIDOR ENTRY PORTAL PLAN-SECTION
1 1/2" = 1'-0"



3 ID401 MONITOR NICHE AT LOBBY DETAIL
1 1/2" = 1'-0"



2 ID401 RECEPTION DESK DETAIL
3/4" = 1'-0"



1 ID401 RECEPTION DESK DETAIL
3/4" = 1'-0"

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

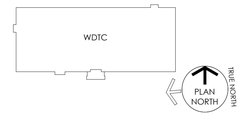
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MILLWORK SECTIONS AND DETAILS

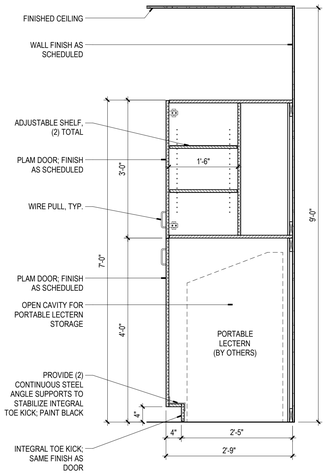
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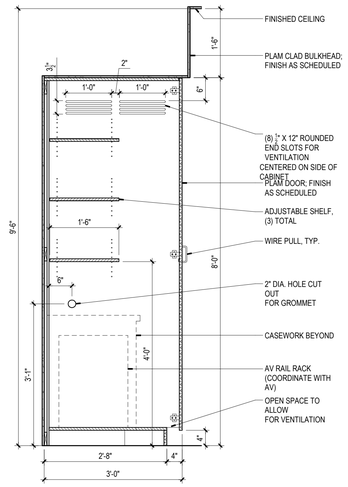
SHEET 59 OF 172

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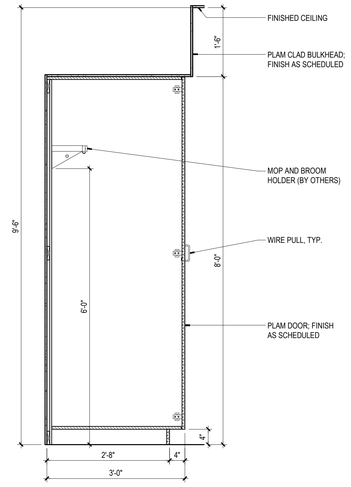
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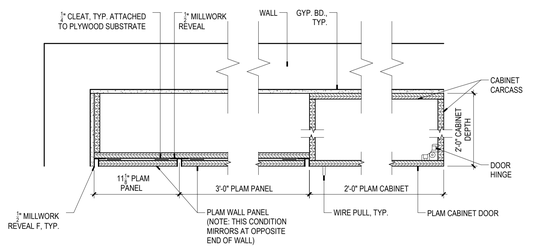
10 ID402 COSMETOLOGY LAB 114 A/V CABINET DETAIL
3/4" = 1'-0"



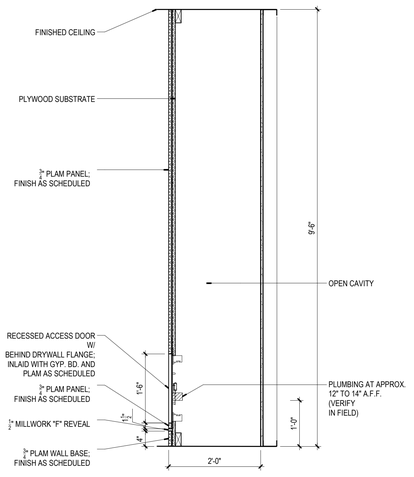
9 ID402 KITCHEN CATER 144 A/V CABINET DETAIL
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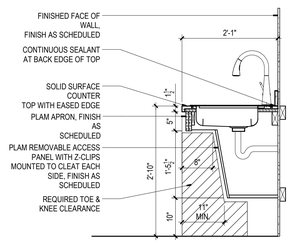
8 ID402 KITCHEN CATER 144 BROOM CABINET DETAIL
3/4" = 1'-0"



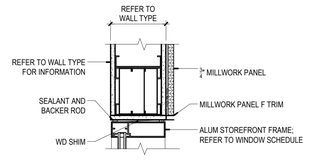
7 ID402 COSMETOLOGY LAB 114 WALL PANEL AND CABINET DETAIL
1 1/2" = 1'-0"



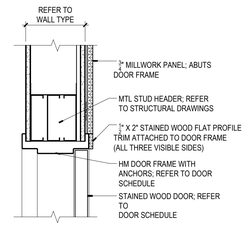
6 ID402 COSMETOLOGY LAB 114 ACCESS PANEL DETAIL
3/4" = 1'-0"



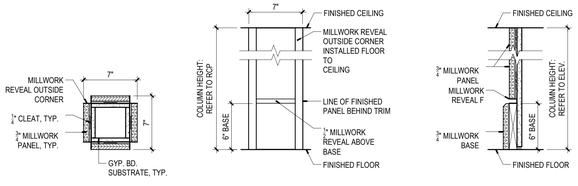
5 ID402 SINK DETAIL
3/4" = 1'-0"



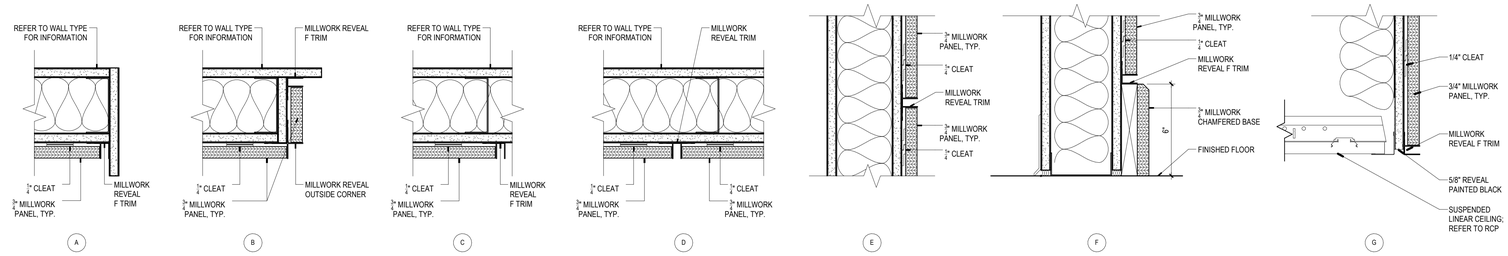
4 ID402 WALL PANEL TO STOREFRONT DETAIL
1 1/2" = 1'-0"



3 ID402 WALL PANEL TO DOOR FRAME DETAIL
1 1/2" = 1'-0"



2 ID402 MILLWORK COLUMN DETAILS
1 1/2" = 1'-0"



1 ID402 MILLWORK PANEL & REVEAL DETAILS
3" = 1'-0"

PROJECT TEAM

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ARCHITECTS
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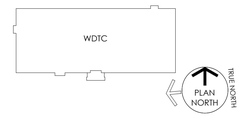
12401 WILLOWBROOK RD, SE
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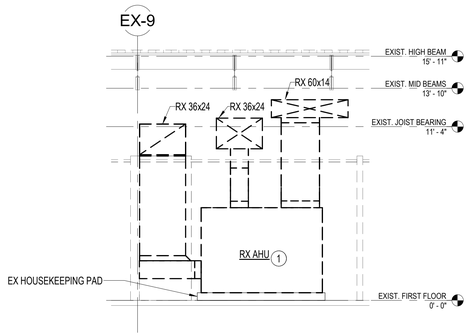
ID402

SHEET 60 OF 172

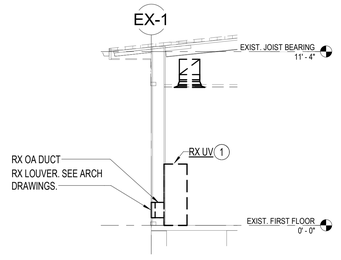
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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
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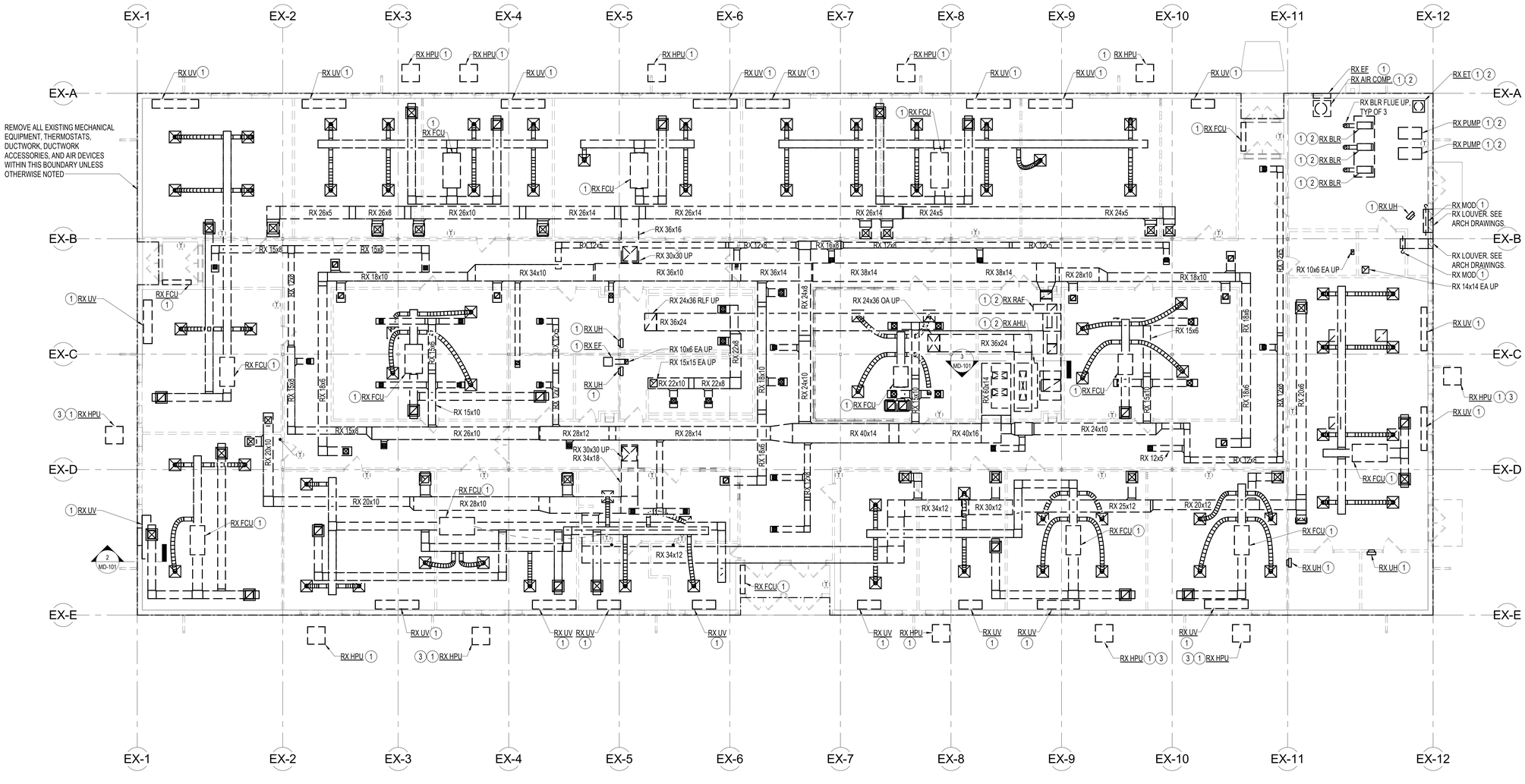


3 MD-101 AHU - DUCTWORK - DEMOLITION SECTION
1/4" = 1'-0"



NOTES:
1. SECTION TYPICAL FOR ALL PERIMETER UNIT VENTILATORS

2 MD-101 TYPICAL UNIT VENTILATOR - DUCTWORK - DEMOLITION SECTION
1/4" = 1'-0"



1 MD-101 FIRST FLOOR - DUCTWORK - DEMOLITION PLAN
1/8" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT
1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

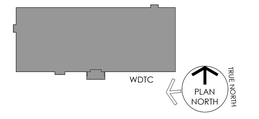
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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	DESIGN DEVELOPMENT	05/01/2026
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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:	
DRAWN BY:	EKD
CHK'D BY:	SRH

JOB NUMBER:	**25909 - DGS# CC-10-MC25-488**
ISSUE DATE:	**11/06/2026**

SHEET TITLE:

FIRST FLOOR - DUCTWORK - DEMOLITION PLAN

SHEET NUMBER:

MD-101

SHEET 61 OF 172

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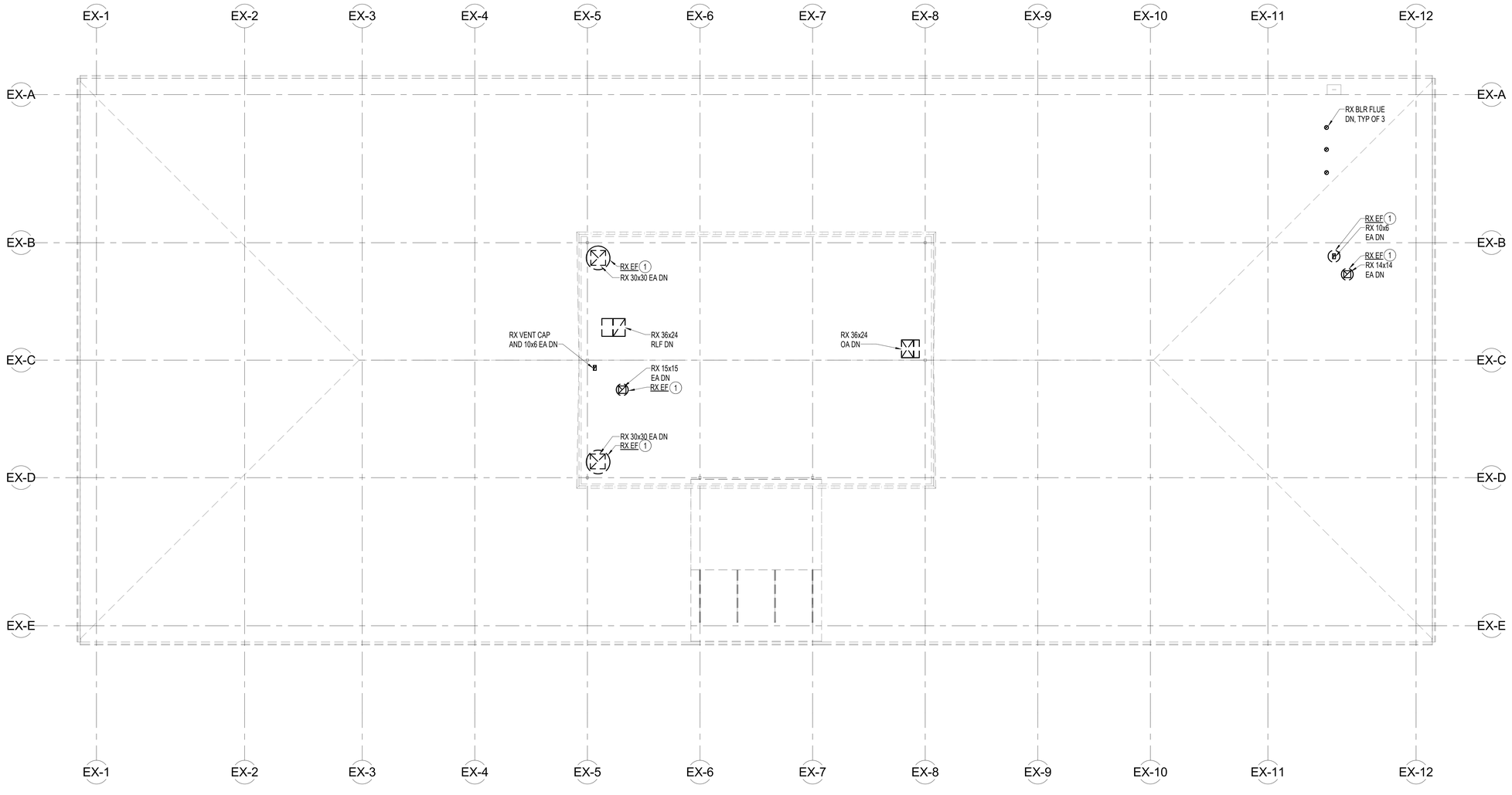
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DRAWING NOTES:
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) RX ALL ASSOCIATED WIRING, CONTROLS, ACCESSORIES, ETC.



1 MD-102 ROOF - DUCTWORK - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

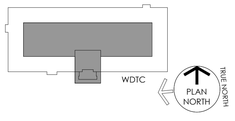
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF - DUCTWORK - DEMOLITION PLAN

SHEET NUMBER:

MD-102

SHEET 62 OF 172

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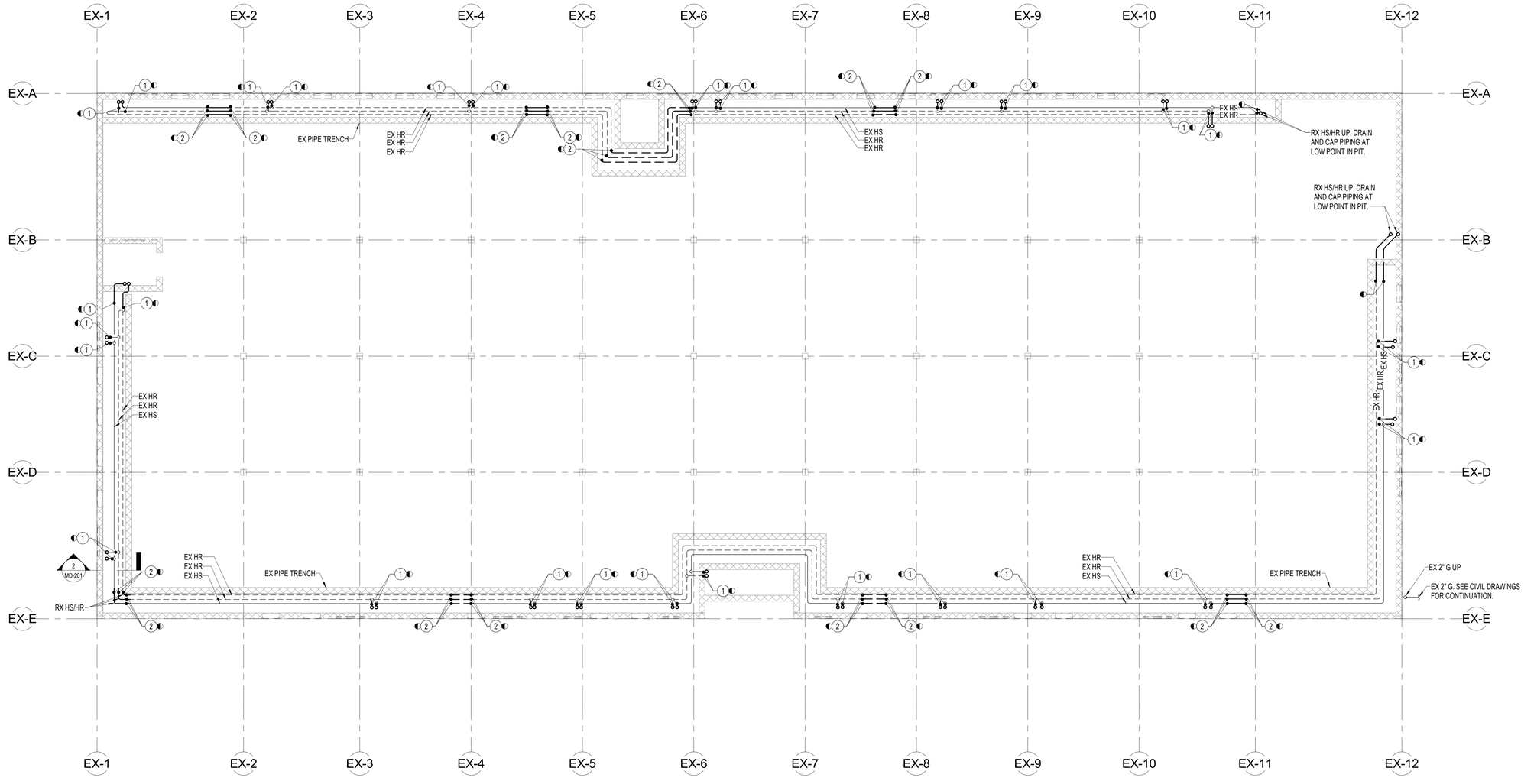
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) REMOVE HS/HR UP TO UNIT VENTILATOR/FAN COIL UNIT. VALVE AND CAP PIPING 6" BELOW FLOOR SLAB IN PIPE TRENCH.

(2) REMOVE EXISTING HS/HR PIPING IN TRENCH WHERE TRENCH WILL BE INFILLED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.



1 MD-200 FOUNDATION - MECHANICAL PIPING - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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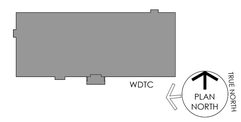
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FOUNDATION - MECHANICAL PIPING -DEMOLITION PLAN

SHEET NUMBER:

MD-200

SHEET 63 OF 172

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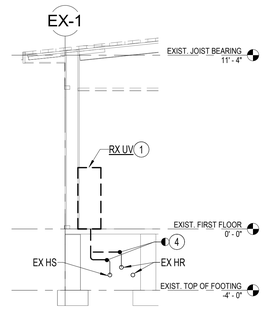
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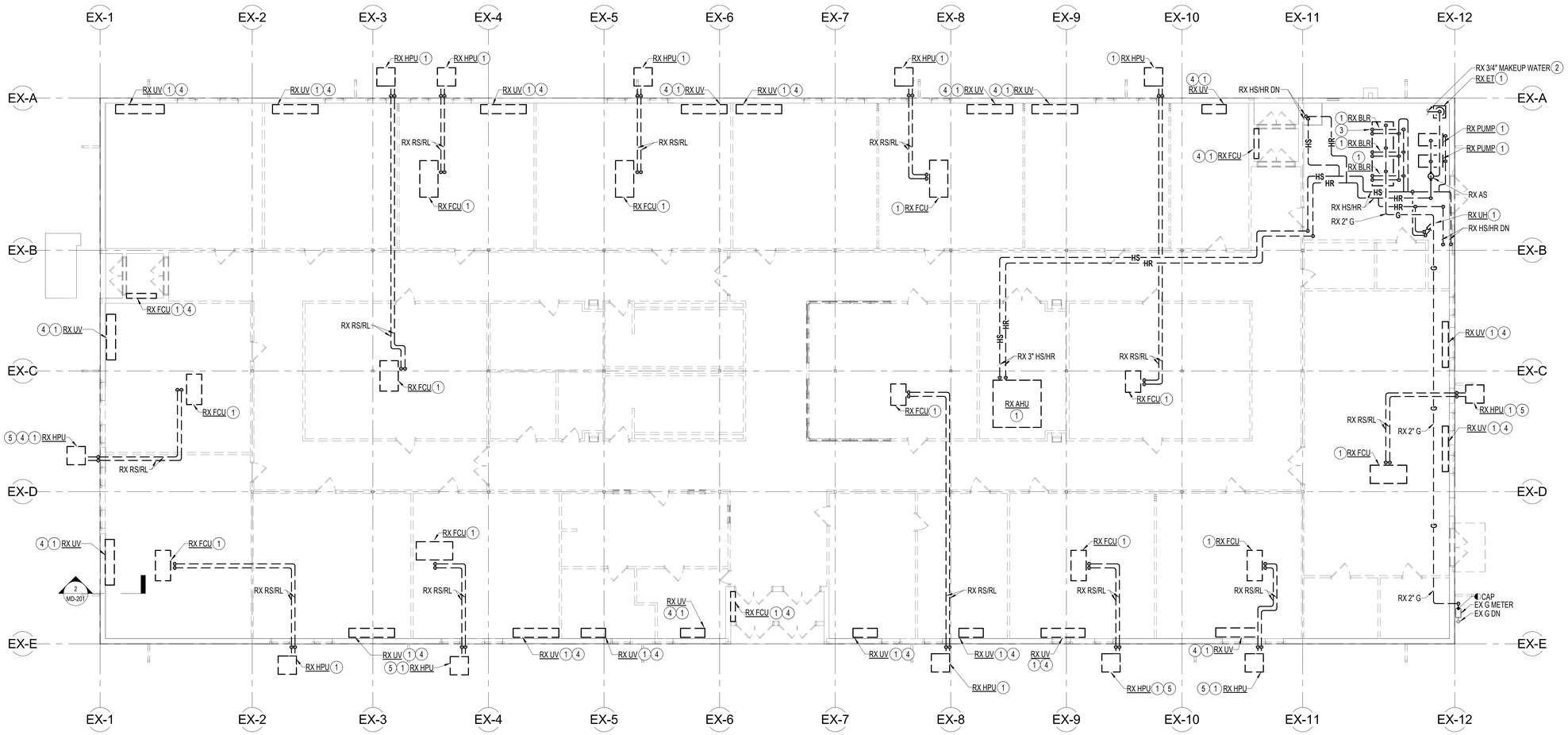
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1. RX ALL ASSOCIATED WIRING, CONTROLS, ACCESSORIES, ETC.
2. SEE PLUMBING DRAWINGS FOR MORE INFORMATION.
3. RX CIRCULATOR PUMP IN VERTICAL, TYP OF 3.
4. REMOVE HS/HR DN FROM UNIT VENTILATOR/FAN COIL UNIT. VALVE AND CAP PIPING 6" BELOW FLOOR SLAB IN PIPE TRENCH.
5. SALVAGE EXISTING HEAT PUMP UNIT AND TURN OVER TO OWNER.



NOTES:
1. SECTION TYPICAL FOR ALL PERIMETER UNIT VENTILATORS

2 / MD-201 TYPICAL UNIT VENTILATOR - MECHANICAL PIPING - DEMOLITION SECTION
1/4" = 1'-0"



1 / MD-201 FIRST FLOOR - MECHANICAL PIPING - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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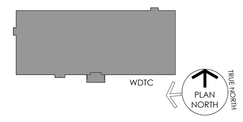
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: SRH

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SHEET TITLE:

FIRST FLOOR - MECHANICAL PIPING - DEMOLITION PLAN

SHEET NUMBER:

MD-201

SHEET 64 OF 172

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MECHANICAL ABBREVIATIONS

(APPLICABLE TO ALL MECHANICAL DRAWINGS, NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THE DRAWINGS)

A	AMPS / COMPRESSED AIR
ACC	AIR COOLED CHILLER / AIR COOLED CONDENSER
ACU	AIR CONDITIONING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR
ADJ	ADJACENT / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MONITORING STATION
AHU	AIR HANDLING UNIT
APD	AIR PRESSURE DROP
APG	AIR PRESSURE GAUGE
APPROX	APPROXIMATE
AR	ARGON
ARCH	ARCHITECTURAL
AS	AIRFLOW SENSOR / AIR SEPARATOR
ATC	AUTOMATIC TEMPERATURE CONTROLS
ATU	AIR TERMINAL UNIT
AV	ACID VENT / AIR VENT
AVG	AVERAGE
B	BOTTOM / BOILER
BAS	BUILDING AUTOMATION SYSTEM
BBD	BAROMETRIC BACKDRAFT DAMPER
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BI	BACKWARD INCLINED
BLDG	BUILDING
BLR	BOILER
BM	BEAM
BS	BRANCH SELECTOR UNIT
BSMT	BASEMENT
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
CAP	CAPACITY
CC	COOLING COIL
CFH	CUBIC FEET PER HOUR
CFM	CUBIC FEET PER MINUTE
CLG	CEILING / COOLING
CO	CARBON MONOXIDE SENSOR / CLEANOUT / CONTRACTING OFFICER
CO2	CARBON DIOXIDE SENSOR
COND	CONDENSATE / CONDENSER / CONDENSING
COP	COEFFICIENT OF PERFORMANCE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CP	CONTROL PANEL / CONDENSATE PUMP
CS	CURRENT SENSOR / CONDENSER WATER SUPPLY
CU	COPPER / CUBIC / CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CHECK VALVE / CONSTANT VOLUME
CW	COLD WATER
CX	CONNECT TO EXISTING
D	DAMPER / DEEP / DEPTH / DIAMETER / DIFFUSER / DRAIN / DROP
DB	DECIBEL / DRY BULB
DDC	DIRECT DIGITAL CONTROL
DEG	DEGREES
DESIG	DESIGNATION
DET	DETAIL
DIA	DIAMETER
DIAM	DIAMETER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DEW POINT / DIFFERENTIAL PRESSURE
DPS	DIFFERENTIAL PRESSURE SWITCH
DWC	DRINKING WATER COOLER
DWF	DRINKING WATER FOUNTAIN
DWGS	DRAWINGS
DWH	DOMESTIC WATER HEATER
DX	DIRECT EXPANSION
E	EAST / ELECTRICAL
EA	EACH / EXHAUST AIR
EAT	ENTERING AIR TEMPERATURE
EDH	ELECTRIC DUCT HEATER
EER	ELECTRICAL EQUIPMENT ROOM / ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFT	ENTERING FLUID TEMPERATURE
EL	ELEVATION
ELEC	ELECTRIC / ELECTRICAL
ELEV	ELEVATION / ELEVATOR
ERW	ENERGY RECOVERY WHEEL
ES	EMERGENCY SHOWER / END SWITCH
ESP	EXTERNAL STATIC PRESSURE
ESS	EMERGENCY SHUTDOWN SWITCH
ETR	EXISTING TO REMAIN
EX	EXISTING
F	FAHRENHEIT / FAN / FIRE / FIRE LINE / FREEZESTAT
FA	FACE AREA / FREE AREA
FC	FLEXIBLE CONNECTION / FORWARD CURVED
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER
FDV	FIRE DEPARTMENT VALVE
FF	FINISHED FLOOR / FLOOR-TO-FLOOR
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER / FACTORY MUTUAL GLOBAL
P	
FPM	FEET PER MINUTE
FSD	FIRE SMOKE DAMPER
FT	FEET / FOOT
FV	FACE VELOCITY
G	GAS / GRAMS / GRILLE
GAL	GALLON
GI	GREASE INTERCEPTOR
GPH	GALLONS PER HOUR
GPM	GALLON PER MINUTE
GRD	GREASE RECOVERY DEVICE
GS	GREASE SANITARY
H	HEIGHT / HIGH / HUMIDISTAT / HUMIDITY SENSOR / HUMIDIFIER
HC	HEATING COIL
HD	HEAD
HOA	HAND-OFF-AUTOMATIC SWITCH
HORIZ	HORIZONTAL
HP	HEAT PUMP / HIGH PRESSURE / HORSEPOWER
HRU	HEAT RECOVERY CONDENSING UNIT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HZ	HERTZ
ID	INSIDE DIAMETER
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEER	INTEGRATED ENERGY EFFICIENCY RATIO
IN	INCH / INCHES
INV	INVERT
IW	INDIRECT WASTE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LLS	LIQUID LEVEL SENSOR
M	MECHANICAL / METERS / WATER METER
MA	MAKEUUP AIR / MEDICAL AIR / MIXED AIR
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MERV	MINIMUM EFFICIENCY REPORTING VALUE
MIN	MINIMUM
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR-OPERATED DAMPER
NC	NOISE CRITERIA / NORMALLY CLOSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NO	NITROUS OXIDE / NORMALLY OPEN / NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
O	OUTLET / OUTPUT / OXYGEN
OA	OUTDOOR AIR
OD	OUTSIDE DIAMETER
OED	OPEN-END DUCT
P	PIPE / PLUMBING FIXTURE TYPE / PRESSURE / PUMP
PD	PRESSURE DROP / PRESSURE SWITCH / PUMP DISCHARGE
PH	PHASE
PHC	PREHEAT COIL
PPM	PARTS PER MILLION
PSI	PRESSURE - POUNDS PER SQUARE INCH
PSIG	PRESSURE - POUNDS PER SQUARE INCH, GAGE
R	RADIUS / REFRIGERANT / REGISTER / RISE / RISER
RA	RETURN AIR
RAD	RADIUS
RAF	RETURN AIR FAN
REA	RELIEF AIR
REF	REFERENCE / REFRIGERANT / REFRIGERATION
REFRIG	REFRIGERANT / REFRIGERATION
REG	REGISTER / REGULATOR
REL	RELIEF / RELOCATE
RET	RETURN
RH	REHEAT / RELATIVE HUMIDITY
RHC	REHEAT COIL
RL	RAIN LEADER / REFRIGERANT LIQUID
RLA	RATED LOAD AMPS
RLD	REFRIGERANT LEAK DETECTOR
RPM	REVOLUTIONS PER MINUTE
RPS	REVOLUTIONS PER SECONDS
RS	REFRIGERANT SENSOR / REFRIGERANT SUCTION
RV	RELIEF VALVE
RX	REMOVE EXISTING
S	SANITARY / SECONDS / SOIL / SOUTH / SWITCH / END SWITCH
SA	SOUND ATTENUATOR / SUPPLY AIR
SAF	SUPPLY AIR FAN
SB	SLEEVE BEAM
SC	SHADING COEFFICIENT
SCCR	SHORT-CIRCUIT CURRENT RATING
SCH	SCHEDULE
SCHR	SECONDARY CHILLED WATER RETURN
SCHS	SECONDARY CHILLED WATER SUPPLY
SD	SINGLE DUCT / SMOKE DAMPER / SMOKE DETECTORS / STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SENS	SENSIBLE COOLING
SERV	SERVICE
SF	SQUARE FEET / SQUARE FOOT
SH	SHOWER
SHGC	SOLAR HEAT GAIN COEFFICIENT
SHR	SECONDARY HOT WATER RETURN / SENSIBLE HEAT RATIO
SHS	SECONDARY HOT WATER SUPPLY
SHT	SHEET
SI	SOLIDS INTERCEPTOR
SL	SLEEVE / SLOPE
SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION
SMH	SANITARY MANHOLE
SP	SPRINKLER PIPING / STATIC PRESSURE
SPEC	SPECIFICATION
SPSS	STATIC PRESSURE SENSING STATION
SQ	SQUARE
SS	SERVICE SINK / STAINLESS STEEL
SST	SATURATION SUCTION TEMPERATURE
SSW	SUPPLEMENTAL STORM WATER
ST	STEAM TRAP
STD	STANDARD
STL	STEEL
STM	STEAM
STR	STRUCTURAL
SUCT	SUCTION
SUP	SUPPLY
SUSP	SUSPEND / SUSPENDED
SV	SECTION VALVE
SW	STORM WATER / SWITCH
SWI	STORM WATER INLET
SYS	SYSTEM
T	TEMPERATURE SENSOR / THERMOSTAT
TA	TRANSFER AIR
TEMP	TEMPERATURE / TEMPORARY
TOT	TOTAL
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UC	UNDERCUT DOOR
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UV	UNIT VENTILATOR
V	VACUUM / VALVE / VENT / VOLTS
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VR	VOLUME REGULATOR
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
W	WASTE / WATER / WATT / WEST / WIDTH
W/	WITH
W/O	WITHOUT
WB	WET BULB
WF	WALL FIN RADIATION
WG	WATER GAGE

MECHANICAL LEGEND

(APPLICABLE TO ALL MECHANICAL DRAWINGS)

SYMBOL	DESCRIPTION
—CHR—	CHILLED WATER RETURN
—CHS—	CHILLED WATER SUPPLY
—HR—	HOT WATER HEATING RETURN
—HS—	HOT WATER HEATING SUPPLY
—RL—	REFRIGERANT LIQUID
—RS—	REFRIGERANT SUCTION
	CONNECT TO EXISTING
	END POINT OF REMOVAL OF EXISTING
1 / M-101	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	CAP (PIPE OR DUCT)
	PIPE BREAK - SINGLE LINE
	PIPE BREAK - DOUBLE LINE
	SHUTOFF VALVE
	EXHAUST AIR DUCT
	OUTDOOR AIR OR SUPPLY AIR DUCT
	RETURN AIR DUCT
T	THERMOSTAT/TEMPERATURE SENSOR
S	DUCT MOUNTED SMOKE DETECTOR
CO2 %	CARBON DIOXIDE SENSOR / HUMIDISTAT
D	DROP IN DUCTWORK
R	RISE IN DUCTWORK
	DUCT BREAK
	COMBINATION FIRE AND SMOKE DAMPER
	MOTOR OPERATED DAMPER
	VOLUME DAMPER
AFMS	AIRFLOW MONITORING STATION
	FLEXIBLE CONNECTION
	VOLUME REGULATOR
8x8 / D-1 / 250	DIFFUSER TAG: TOP- NECK SIZE CENTER- SPECIFICATION TYPE BOTTOM- AIRFLOW IN CFM

GENERAL MECHANICAL NOTES

(APPLICABLE TO ALL MECHANICAL DRAWINGS)

1. PRIOR TO SUBMITTING SHOP DRAWINGS TO COR FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, COORDINATE ELECTRICAL REQUIREMENTS BETWEEN CONTRACTORS OF ALL TRADES ASSOCIATED WITH THE INSTALLATION. THE GENERAL CONTRACTOR'S STAMP ON THE SUBMITTAL MUST STATE THAT COORDINATION BETWEEN ALL TRADES HAS BEEN VERIFIED AND THAT THE SUBMITTAL HAS BEEN APPROVED FOR COR'S REVIEW. IF CONTRACTOR SUBMITS EQUIPMENT WITH POWER REQUIREMENTS THAT ARE DIFFERENT FROM POWER CONNECTION INDICATED ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST PROVIDE A REASON FOR THE CHANGE AND WRITTEN CONFIRMATION THAT THE CHANGE HAS BEEN FULLY COORDINATED WITH ALL ASSOCIATED TRADES. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO ELECTRICAL CONNECTION, COORDINATE AND MAKE REQUIRED CHANGES TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH ALL ASSOCIATED TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT SUBMITTALS AMONG THE SUBCONTRACTORS, NOT THE COR'S.

2. ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "LIGHT" (———) ARE EXISTING TO REMAIN. DEMOLISH ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND DASHED" (— — —) ON DEMOLITION DRAWINGS. PROVIDE ALL PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND SOLID" (———) ON NEW WORK DRAWINGS.

3. COORDINATE ALL MECHANICAL WORK WITH PLUMBING WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES.

4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

5. ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.

6. INSTALL PIPING AND DUCTWORK SO THAT ALL VALVES AND DAMPERS ARE ACCESSIBLE.

7. UNLESS OTHERWISE NOTED, ROUTE ALL PIPING AND DUCTWORK OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

8. MAINTAIN MINIMUM UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 36 INCHES WIDE AND 80 INCHES HIGH THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.

9. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN DUCTWORK AND PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.

10. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE COR.

11. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. PROVIDE ADDITIONAL VALVES, PRESSURE GAUGES, ETC. AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.

12. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO COR FOR APPROVAL.

13. EXCEPT AS OTHERWISE NOTED, LOCATE THE TOP OF ALL ROOM THERMOSTATS/TEMPERATURE SENSORS ON SAME HORIZONTAL CENTERLINE AS LIGHT SWITCH. WHERE LIGHT SWITCH AND THERMOSTAT/TEMPERATURE SENSOR ARE ADJACENT TO EACH OTHER, LIGHT SWITCH SHALL BE CLOSEST TO THE DOOR. COORDINATE WITH ELECTRICAL CONTRACTOR. NOTIFY THE ENGINEER OF ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.

14. IN CORRIDORS WHERE CEILING SPEAKERS AND AIR DIFFUSERS ARE INDICATED BETWEEN THE SAME LIGHTING FIXTURES, RELOCATE BOTH DEVICES TO QUARTER POINTS BETWEEN THE SAME FIXTURE.

15. RECOVER REFRIGERANTS FROM REFRIGERATION EQUIPMENT IN ACCORDANCE WITH AHRI AND EPA STANDARDS. PLACE RECOVERED REFRIGERANT IN CONTAINERS LABELED IN ACCORDANCE WITH AHRI AND EPA STANDARDS AND TURNED OVER TO THE COR.

16. RECYCLE MERCURY SWITCH THERMOSTATS THAT ARE REMOVED. DELIVER RECYCLED THERMOSTATS TO PARTICIPATING WHOLESALERS.

17. INFORMATION SHOWN ON THE MECHANICAL DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

18. REMOVE ALL EXISTING PIPING, DUCTWORK, EQUIPMENT, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE). ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE GOVERNMENT, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE GOVERNMENT SHALL BE DELIVERED BY THE CONTRACTOR WHERE DIRECTED BY THE COR. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

19. DISCONNECT EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) AND REMOVE PIPING BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. CAP, PLUG, OR SEAL EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE. NO EXISTING PIPING SHALL BE LEFT UNSEALED. VALVE ALL TERMINATED PRESSURE PIPE.

20. REMOVE ALL ACCESSORIES, CONTROLS, ENCLOSURES, SUPPORTS, HANGERS, PADS, ETC. ASSOCIATED WITH ALL EQUIPMENT SHOWN TO BE REMOVED. REPAIR AND PAINT DAMAGED SURFACES AND ALL SURFACES BEHIND ALL EQUIPMENT SHOWN TO BE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACES.

MECHANICAL DESIGN SUMMARY

COOLING LOAD: 491 MBH
HEATING LOAD: 257 MBH

VENTILATION COOLING LOAD: 32 MBH
VENTILATION HEATING LOAD: 81 MBH

DESIGN OUTDOOR AMBIENT TEMPERATURE (COOLING): 95 DEGREES F DRY BULB, 78 DEGREES F WET BULB
DESIGN OUTDOOR AMBIENT TEMPERATURE (HEATING): 0 DEGREES F DRY BULB, -1 DEGREE F WET BULB

DESIGN INDOOR SPACE SETPOINT (COOLING): 75 DEGREES F, MAX 60% RELATIVE HUMIDITY
DESIGN INDOOR SPACE SETPOINT (HEATING): 70 DEGREES F

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL COVER SHEET

SHEET NUMBER:

M-001

SHEET 65 OF 172

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REFRIGERANT PIPING TEST AND INSPECTIONS

1. REFRIGERATION EQUIPMENT AND PIPING SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS AND IMC – CHAPTER 11 REFRIGERATION. THE FOLLOWING TEST AND INSPECTION ITEMS ARE MINIMUM REQUIREMENTS. IF THE MANUFACTURER REQUIRES A HIGHER TEST PRESSURE OR INSPECTION DURATION, THE MANUFACTURER'S REQUIREMENTS TAKE PRECEDENCE.

2. CODE COMPLIANCE: PIPING SHALL BE TESTED IN ACCORDANCE WITH ASHRAE 15-2022.

3. TESTING AGENCY: ENGAGE A QUALIFIED TESTING AGENCY TO PERFORM TESTS AND INSPECTIONS.

4. TESTS AND INSPECTIONS:

A. GENERAL. REFRIGERATING SYSTEMS FABRICATED, ASSEMBLED, OR ERECTED ON THE PREMISES SHALL BE TESTED TO THE APPLICABLE REQUIREMENTS OF THIS SECTION. TESTS SHALL INCLUDE BOTH THE HIGH SIDES AND LOW SIDES OF EACH SYSTEM. SYSTEM COMPONENTS THAT HAVE BEEN STRENGTH TESTED UNDER PRESSURE BY THE COMPONENT MANUFACTURER, FABRICATOR, OR ASSEMBLER ARE NOT REQUIRED TO BE STRENGTH TESTED AGAIN ON THE PREMISES UNLESS MODIFIED OR REPAIRED. LISTED EQUIPMENT NOT MODIFIED OR REPAIRED SHALL NOT BE REQUIRED TO BE STRENGTH TESTED ON THE PREMISES. AFTER INSTALLATION AND BEFORE BEING PLACED IN OPERATION, SYSTEM COMPONENTS NOT PREVIOUSLY STRENGTH TESTED SHALL BE STRENGTH TESTED UNDER PRESSURE IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST BELOW. AFTER SUCCESSFUL COMPLETION OF THE REQUIRED STRENGTH TESTS AND BEFORE BEING PLACED IN OPERATION, SYSTEM COMPONENTS AND FIELD INSTALLED CONNECTIONS SHALL BE LEAK TESTED FOR TIGHTNESS IN ACCORDANCE WITH LEAKAGE TEST BELOW.

B. TEST GASES. THE MEDIUM USED FOR FIELD PRESSURE TESTING THE REFRIGERANT SYSTEM SHALL BE ONE OF THE FOLLOWING INERT GASES: OXYGEN-FREE NITROGEN, HELIUM, ARGON OR PREMIXED NONFLAMMABLE OXYGEN-FREE NITROGEN WITH A TRACER GAS OF HYDROGEN OR HELIUM.
   1. TEST GASES NOT PERMITTED. OXYGEN, AIR, REFRIGERANTS OTHER THAN THOSE IDENTIFIED ABOVE, COMBUSTIBLE GASES AND MIXTURES CONTAINING SUCH GASES SHALL NOT BE USED AS THE TEST MEDIUM.

C. FIELD TEST APPARATUS. THE MEANS USED TO PRESSURIZE THE REFRIGERANT PIPING SYSTEM SHALL HAVE EITHER A PRESSURE-LIMITING DEVICE OR A PRESSURE-REDUCING DEVICE AND A TEST PRESSURE MEASURING DEVICE ON THE OUTLET SIDE. THE TESTS PRESSURE MEASURING DEVICE SHALL HAVE AN ACCURACY OF +/-3 PERCENT OR LESS OF THE TEST PRESSURE AND SHALL HAVE A RESOLUTION OF 3 PERCENT OR LESS OF THE TEST PRESSURE.

D. PIPING SYSTEM STRENGTH TEST. REFRIGERATING SYSTEM COMPONENTS AND REFRIGERANT PIPING SHALL BE TESTED IN ACCORDANCE WITH ASME B31.5 OR THIS SECTION. SEPARATE TESTS FOR ISOLATED PORTIONS OF THE SYSTEM ARE PERMITTED, PROVIDED THAT ALL REQUIRED PORTIONS ARE TESTED AT LEAST ONCE. PRESSURIZE WITH TEST GAS FOR A MINIMUM OF 10 MINUTES TO NOT LESS THAN THE LOWER OF (A) THE LOWEST DESIGN PRESSURE FOR ANY SYSTEM COMPONENT OR (B) THE LOWEST VALUE OF SET PRESSURE FOR ANY PRESSURE RELIEF DEVICES IN THE SYSTEM. THE DESIGN PRESSURES FOR DETERMINATION OF TEST PRESSURE SHALL BE THE PRESSURE IDENTIFIED ON THE LABEL NAMEPLATE OF THE CONDENSING UNIT, COMPRESSOR, COMPRESSOR UNIT, PRESSURE VESSEL OR OTHER SYSTEM COMPONENT WITH A NAMEPLATE. A PASSING TEST RESULT SHALL HAVE NO RUPTURE OR STRUCTURAL FAILURE OF ANY SYSTEM COMPONENT OR REFRIGERANT PIPING. PRESSURE RELIEF DEVICES MAY NEED TO BE TEMPORARILY REMOVED AND REPLACED WITH PLUGS DURING THE STRENGTH TEST.

E. LEAKAGE TEST. THE LEAK TEST SHALL BE IN ACCORDANCE WITH ASHRAE STANDARD 147, ASME B31.5, OR THIS SECTION.

   1. LEAK TESTING PROTOCOL. AFTER THE TIME TO COMPLETE THE STRENGTH TEST, CONTINUE TO PRESSURE TEST IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST ABOVE FOR A MINIMUM PERIOD AS SPECIFIED IN THE FOLLOWING TABLE, DURATION OF LEAK TEST. THE SYSTEM SHALL SHOW NO LOSS IN PRESSURE ON THE PRESSURE MEASURING DEVICE DURING THE PRESSURE TEST. CALCULATION OF THE PRESSURE DIFFERENTIAL BASED ON A CHANGE IN AMBIENT TEMPERATURE SHALL BE PERMITTED. A VACUUM OF 0.0097 PSI ABSOLUTE OR LOWER SHALL BE ACHIEVED. AFTER ACHIEVING A VACUUM, THE SYSTEM SHALL BE ISOLATED FROM THE VACUUM PUMP. THE SYSTEM PRESSURE SHALL NOT RISE ABOVE 0.029 PSI ABSOLUTE FOR A MINIMUM PERIOD AS SPECIFIED IN THE FOLLOWING TABLE, DURATION OF LEAK TEST. THE VACUUM PUMP SHOULD GRADUALLY CREATE A VACUUM TO AVOID FREEZING OF ANY MOISTURE IN THE PIPING SYSTEM.

DURATION OF LEAK TEST

LEAK TEST	PIPE LENGTH, L (FEET)	MAXIMUM PIPE SIZE (INCH)	MINIMUM PERIOD OF TEST (HOURS)
PRESSURE TEST	L <= 100	3/4 OR LESS	0.25
		1 TO 3	1
		GREATER THAN 3	24
	100 < L <= 200	3 OR LESS	1
		GREATER THAN 3	24
	200 < L	ANY	24
VACUUM TEST	L <= 100	3/4 OR LESS	1
		1 TO 3	8
		GREATER THAN 3	24
	100 < L <= 200	3 OR LESS	8
		GREATER THAN 3	24
	200 < L	ANY	24

NOTE: THE MAXIMUM PIPE SIZE IS THE LARGEST INTERCONNECTING FIELD PIPING INSTALLED.

F. CONTRACTOR DECLARATION. THE INSTALLING CONTRACTOR SHALL ISSUE A CERTIFICATE OF TEST, VERIFYING STRENGTH TEST IN ACCORDANCE WITH PIPING SYSTEM STRENGTH TEST, AND LEAKAGE TEST IN ACCORDANCE WITH LEAKAGE TEST, TO THE AHJ FOR ALL SYSTEMS CONTAINING 55 LB OR MORE OF REFRIGERANT. THE CERTIFICATE SHALL GIVE THE TEST DATE, PHOTOGRAPH OF THE PRESSURE GAGE AT THE TEST PRESSURE, REFRIGERANT DESIGNATION, TEST MEDIUM, AND THE FIELD TEST PRESSURE APPLIED TO THE HIGH SIDE AND THE LOW SIDE OF THE SYSTEM. THE CERTIFICATION OF TEST SHALL BE SIGNED BY THE INSTALLING CONTRACTOR AND SHALL BE MADE PART OF THE PUBLIC RECORD.

REFRIGERANT DUCTWORK INSTALLATION REQUIREMENTS

1. CODE COMPLIANCE: ASHRAE 15-2022.

2. UNCLASSIFIED ELECTRICAL DEVICES SHALL NOT BE LOCATED WITHIN DUCTWORK.

3. DEVICES CONTAINING HOT SURFACES EXCEEDING 1290 DEGREES F SHALL NOT BE LOCATED IN DUCTWORK UNLESS THERE IS AN AVERAGE AIRFLOW VELOCITY NOT LESS THAN 200 FEET/MIN ACROSS THE HEATING DEVICE(S) AND THERE IS PROOF OF AIRFLOW BEFORE THE HEATING DEVICE(S) IS ENERGIZED. AVERAGE AIRFLOW VELOCITY SHALL BE DETERMINED BY VOLUMETRIC AIRFLOW RATE DIVIDED BY DUCT FLOW RATE.

4. DUCT HEATERS SHALL BE SHUT DOWN BY A REFRIGERANT DETECTION SYSTEM. CONTRACTOR SHALL PROVIDE A REFRIGERANT DETECTION SYSTEM TO SHUTDOWN DUCT MOUNTED HEATERS WHEN A REFRIGERANT LEAK IS SENSED.

REFRIGERANT PIPING INSTALLATION REQUIREMENTS

1. REFRIGERATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH IMC, CHAPTER 11, REFRIGERATION AS FOLLOWS:

2. CODE COMPLIANCE: ASHRAE 15-2022.

3. INSTALL PER MANUFACTURER'S REQUIREMENTS. EQUIPMENT MANUFACTURERS SHALL SIZE ALL PIPING.

4. DRAWING PLANS, SCHEMATICS, AND DIAGRAMS INDICATE GENERAL LOCATION AND ARRANGEMENT OF SYSTEMS; INDICATED LOCATIONS AND. INSTALL PIPING AS INDICATED UNLESS DEVIATIONS TO LAYOUT ARE APPROVED ON SHOP DRAWINGS.

5. INSTALL REFRIGERANT PIPING IN ACCORDANCE WITH ASHRAE 15-2022.

6. PIPE PROTECTION. THE EXTERIOR OF THE PIPE SHALL BE PROTECTED FROM CORROSION, DEGRADATION, GALVANIC CORROSION AND ABRASION. REFRIGERANT PIPE SHALL NOT BE IN CONTACT WITH BUILDING MATERIALS THAT CAN ABRADE THE REFRIGERANT PIPE SHALL BE INSTALLED AS FOLLOWS IN ACCORDANCE WITH ASHRAE 15-2022:

   A. PIPING IN AN ATTIC OR CRAWL SPACE, PROVIDED THAT COPPER TUBE IS INSTALLED 1.5 INCHES FROM THE NEAREST EDGE OF THE MEMBER, THE TUBE SHALL BE PROTECTED BY STEEL SHIELD PLATES HAVING A MINIMUM THICKNESS OF 0.0575 INCH (NO. 16 GAGE). PROTECTIVE STEEL PLATES ARE NOT REQUIRED IN LOCATIONS WHERE THE REFRIGERANT PIPING IS EXPOSED.
   B. PIPING OUTSIDE THE BUILDING SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING:
      1. PROTECTED FROM DAMAGE FROM THE WEATHER, INCLUDING BUT NOT LIMITED TO HAIL, ICE AND SNOW LOADS.
      2. PROTECTED FROM DAMAGE WHERE LOCATED IN AN EXPECTED FOOT OR TRAFFIC PATH.
      3. UNDERGROUND BELOW THE FROST LINE AND NOT LESS THAN 8 INCHES BELOW FINISH GRADE.

7. INSTALL REFRIGERANT PIPING IN PROTECTIVE CONDUIT WERE INSTALLED BELOW GROUND. THE PIPING SHALL BE PROTECTED TO PREVENT DAMAGE FROM VIBRATION, STRESS AND CORROSION.

8. INSTALL PIPING INDICATED TO BE EXPOSED AND PIPING IN EQUIPMENT ROOMS AND SERVICE AREAS AT RIGHT ANGLES OR PARALLEL TO BUILDING WALLS. DIAGONAL RUNS ARE PROHIBITED UNLESS SPECIFICALLY INDICATED OTHERWISE. INSTALL PIPING AS SHORT AND DIRECT AS POSSIBLE, WITH A MINIMUM NUMBER OF JOINTS, ELBOWS, AND FITTINGS. REFRIGERANT PIPING SHALL BE INSTALLED SO AS TO PREVENT STRAINS AND STRESSES THAT EXCEED THE STRUCTURAL STRENGTH OF THE PIPE.

9. INSTALL PIPING ABOVE ACCESSIBLE CEILINGS TO ALLOW SUFFICIENT SPACE FOR CEILING PANEL REMOVAL.

10. INSTALL PIPING ADJACENT TO EQUIPMENT TO ALLOW SERVICE AND MAINTENANCE.

11. INSTALL PIPING FREE OF SAGS AND BENDS.

12. INSTALL FITTINGS FOR CHANGES IN DIRECTION AND BRANCH CONNECTIONS.

13. SELECT SYSTEM COMPONENTS WITH PRESSURE RATING EQUAL TO OR GREATER THAN SYSTEM OPERATING PRESSURE.

14. ARRANGE PIPING TO ALLOW INSPECTION AND SERVICE OF REFRIGERATION EQUIPMENT. INSTALL VALVES AND SPECIALTIES IN ACCESSIBLE LOCATIONS TO ALLOW FOR SERVICE AND INSPECTION. INSTALL ACCESS DOORS OR PANELS AS SPECIFIED IN SECTION 083113 "ACCESS DOORS AND FRAMES" IF VALVES OR EQUIPMENT REQUIRING MAINTENANCE IS CONCEALED BEHIND FINISHED SURFACES.

15. SLOPE REFRIGERANT PIPING IN ACCORDANCE WITH EQUIPMENT MANUFACTURER REQUIREMENTS.

16. WHEN BRAZING OR SOLDERING, REMOVE SOLENOID-VALVE COILS AND SIGHT GLASSES; ALSO REMOVE VALVE STEMS, SEATS, PACKING, AND ACCESSIBLE INTERNAL PARTS OF REFRIGERANT SPECIALTIES. DO NOT APPLY HEAT NEAR EXPANSION-VALVE BULB.

17. IDENTIFY REFRIGERANT PIPING AND VALVES IN ACCORDANCE WITH SECTION 230553 "IDENTIFICATION FOR HVAC PIPING AND EQUIPMENT." FOR GROUP A2L REFRIGERANTS, THE IDENTIFICATION SHALL ALSO INCLUDE THE FOLLOWING STATEMENT: "WARNING-RISK OF FIRE. FLAMMABLE REFRIGERANT."

18. PIPE JOINT CONSTRUCTION

   A. REAM ENDS OF PIPES AND TUBES AND REMOVE BURRS.
   B. REMOVE SCALE, SLAG, DIRT, AND DEBRIS FROM INSIDE AND OUTSIDE OF PIPE AND FITTINGS BEFORE ASSEMBLY.
   C. SOLDERED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH ASTM B828 OR CDA'S "COPPER TUBE HANDBOOK."
   D. BRAZED JOINTS: CONSTRUCT JOINTS IN ACCORDANCE WITH AWS BRH, "BRAZING HANDBOOK," CH. 35, "PIPE AND TUBING."
      1. USE TYPE BCUP (COPPER-PHOSPHORUS) ALLOY FOR JOINING COPPER SOCKET FITTINGS WITH COPPER PIPE.
      2. USE TYPE BAG (CADMIUM-FREE SILVER) ALLOY FOR JOINING COPPER WITH BRONZE OR STEEL.

19. INSTALLATION OF HANGERS AND SUPPORTS

   A. COMPLY WITH SECTION 230529 "HANGERS AND SUPPORTS FOR HVAC PIPING AND EQUIPMENT" FOR HANGERS, SUPPORTS, AND ANCHOR DEVICES.
   B. INSTALL THE FOLLOWING PIPE ATTACHMENTS:
      1. ADJUSTABLE STEEL CLEVIS HANGERS FOR INDIVIDUAL HORIZONTAL RUNS LESS THAN 20 FT. LONG.
      2. ROLLER HANGERS AND SPRING HANGERS FOR INDIVIDUAL HORIZONTAL RUNS 20 FT. OR LONGER.
      3. PIPE ROLLER: MSS SP-58, TYPE 44 FOR MULTIPLE HORIZONTAL PIPING 20 FT. OR LONGER, SUPPORTED ON A TRAPEZE.
      4. SPRING HANGERS TO SUPPORT VERTICAL RUNS.
      5. COPPER-CLAD HANGERS AND SUPPORTS FOR HANGERS AND SUPPORTS IN DIRECT CONTACT WITH COPPER PIPE.
   C. INSTALL HANGERS FOR COPPER TUBING, WITH MAXIMUM HORIZONTAL SPACING AND MINIMUM ROD DIAMETERS, TO COMPLY WITH MSS SP-58, LOCALLY ENFORCED CODES, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS, WHICHEVER ARE MOST STRINGENT.
   D. SUPPORT HORIZONTAL PIPING WITHIN 12 INCHES OF EACH FITTING.
   E. SUPPORT VERTICAL RUNS OF COPPER TUBING TO COMPLY WITH MSS SP-58, LOCALLY ENFORCED CODES, AND AUTHORITIES HAVING JURISDICTION REQUIREMENTS, WHICHEVER ARE MOST STRINGENT.

REFRIGERANT EQUIPMENT INSTALLATION REQUIREMENTS

1. REFRIGERATION EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH IMC, CHAPTER 11, REFRIGERATION AS FOLLOWS:

2. CODE COMPLIANCE: ASHRAE 15-2022.

3. REFRIGERATION SYSTEMS SHALL BE LISTED IN ACCORDANCE WITH UL 484 OR UL 60335-2-40/CSA C22.2 NO. 60335-2-40.

4. THE REFRIGERATION SYSTEM SHALL BE INSTALLED IN ACCORDANCE WITH ASHRAE 15-2022, THE LISTING, THE MANUFACTURER'S INSTRUCTIONS AND ANY MARKINGS ON THE EQUIPMENT RESTRICTING THE INSTALLATION.

   A. THE ASHRAE 15-2022 REQUIRED NAME PLATE, SHALL INCLUDE A SYMBOL INDICATING THAT A FLAMMABLE REFRIGERANT IS USED.
   B. A LABEL INDICATING A FLAMMABLE REFRIGERANT IS INSTALLED, SHALL BE PLACED ADJACENT TO SERVICE PORTS AND OTHER LOCATIONS WHERE SERVICE INVOLVING COMPONENTS CONTAINING REFRIGERANT IS PERFORMED.

5. EQUIPMENT SHALL HAVE A FACTORY INSTALLED REFRIGERANT DETECTION SYSTEM IN ACCORDANCE WITH ASHRAE 15-2022.

6. EQUIPMENT PRESSURE RELIEF DEVICES

   A. DIFFERENT REFRIGERANTS SHALL NOT BE VENTED INTO A COMMON RELIEF PIPING SYSTEM.
   B. PRESSURE RELIEF DEVICES DESIGNED TO DISCHARGE EXTERNAL TO THE REFRIGERATION SYSTEM SHALL BE ARRANGED TO DISCHARGE OUTSIDE OF THE BUILDING AND COMPLY WITH ALL OF THE FOLLOWING:

      1. THE POINT OF VENT DISCHARGE SHALL BE LOCATED NOT LESS THAN 15 FEET ABOVE THE ADJOINING GROUND LEVEL.
      2. THE POINT OF VENT DISCHARGE SHALL BE LOCATED NOT LESS THAN 20 FEET FROM WINDOWS, BUILDING VENTILATION OPENINGS, PEDESTRIAN WALKWAYS ABOVE OR BELOW GRADE, PITS, RAMPS OR BUILDING EXITS. THE RELIEF VENT SHALL NOT DISCHARGE INTO AN ENCLOSED OUTDOOR SPACE SUCH AS A COURTYARD.
      3. THE TERMINATION POINT OF A VENT DISCHARGE LINE SHALL BE MADE IN A MANNER THAT PREVENTS FOREIGN MATERIAL OR DEBRIS.

7. LIQUID-LEVEL-GAGE GLASS COLUMNS SHALL HAVE AUTOMATIC CLOSING SHUTOFF VALVES. ALL SUCH GLASS COLUMNS SHALL BE PROTECTED AGAINST EXTERNAL DAMAGE AND PROPERLY SUPPORTED.

   A. EXCEPTION: LIQUID-LEVEL-GAGE GLASSES OF THE BULL'S-EYE TYPE.

8. WHEN A PRESSURE GAGE IS PERMANENTLY INSTALLED ON THE HIGH SIDE OF A REFRIGERATING SYSTEM, ITS DIAL SHALL BE GRADUATED TO AT LEAST 1.2 TIMES THE DESIGN PRESSURE.

9. LIQUID RECEIVERS, OR PARTS OF A SYSTEM DESIGNED TO RECEIVE THE REFRIGERANT CHARGE DURING PUMP DOWN SHALL HAVE SUFFICIENT CAPACITY TO RECEIVE THE PUMP DOWN CHARGE. THE LIQUID SHALL NOT OCCUPY MORE THAN 90 PERCENT OF THE VOLUME WHEN TEMPERATURE OF THE REFRIGERANT IS 90 DEG F.

10. SERVICE PROVISIONS

   A. ALL SERVICEABLE COMPONENTS OF REFRIGERATING SYSTEMS SHALL BE PROVIDED WITH SAFE ACCESS.
   B. CONDENSING UNITS OR COMPRESSOR UNITS WITH ENCLOSURES SHALL BE PROVIDED WITH SAFE ACCESS WITHOUT THE NEED TO CLIMB OVER OR REMOVE ANY OBSTACLES OR TO USE PORTABLE ACCESS DEVICES TO GET TO THE EQUIPMENT.
   C. ALL SYSTEMS SHALL HAVE PROVISIONS TO HANDLE THE REFRIGERANT CHARGE FOR SERVICE PURPOSES. WHEN REQUIRED, THERE SHALL BE LIQUID AND VAPOR TRANSFER VALVES. A TRANSFER COMPRESSOR OR PUMP AND REFRIGERANT STORAGE TANKS OR APPROPRIATE VALVED CONNECTIONS FOR REMOVAL BY A RECLAIM, RECYCLE OR RECOVERY DEVICE.

11. SYSTEM CHARGING IN ACCORDANCE WITH ASHRAE 15-2022.

12. SYSTEM ADJUSTING IN ACCORDANCE WITH ASHRAE 15-2022.

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL COVER SHEET

SHEET NUMBER:

M-002

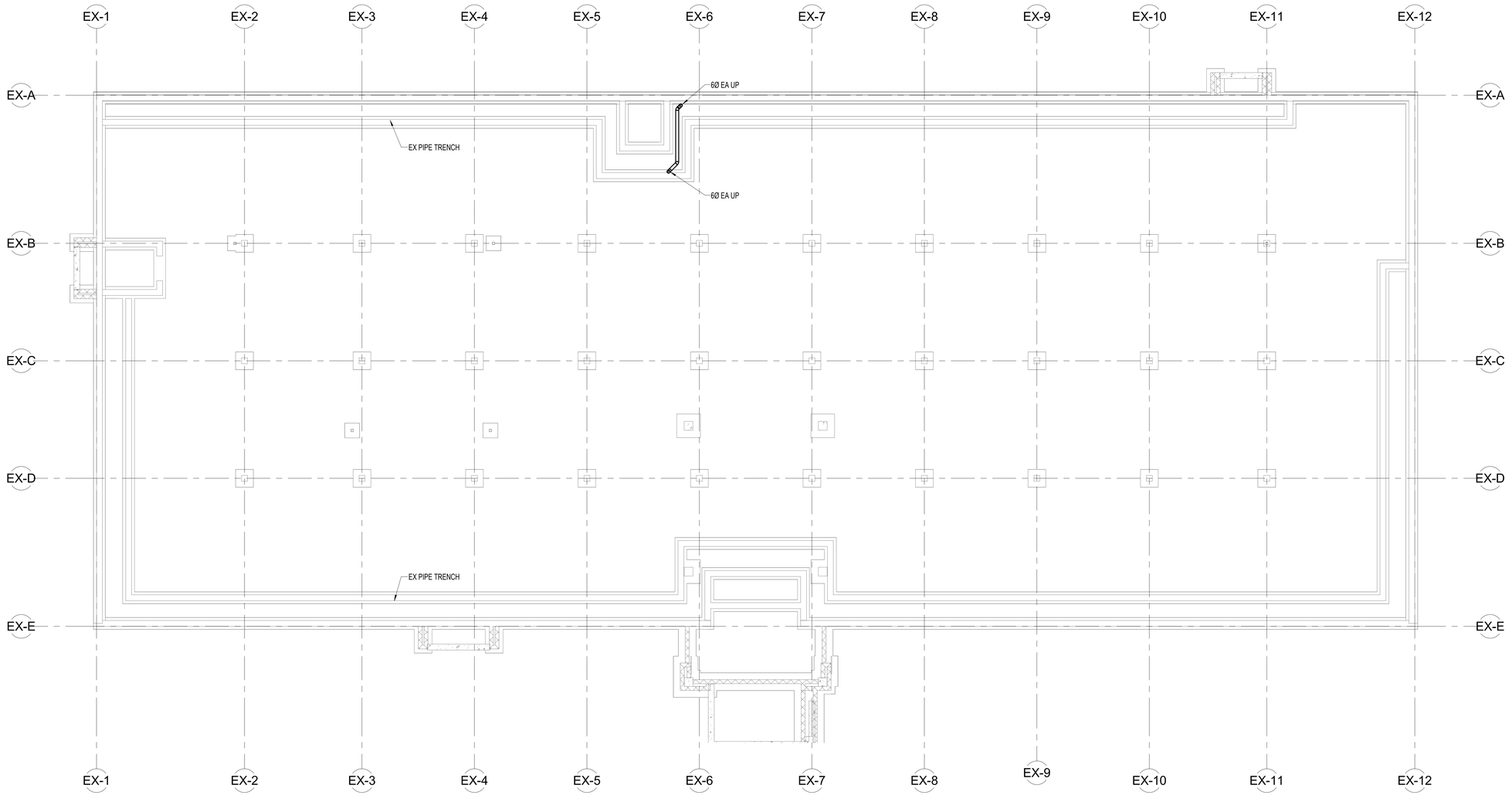
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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE COR FOR RESOLUTION. AWAIT WRITTEN DIRECTION BEFORE PROCEEDING.



1 / M-100 FOUNDATION - MECHANICAL - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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PROJECT ADDRESS

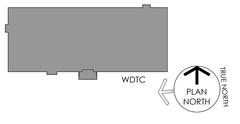
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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	SCHEMATIC DESIGN SUBMISSION	02/27/2026
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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

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ISSUE DATE: **11/06/2026**
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FOUNDATION - MECHANICAL - NEW WORK PLAN

SHEET NUMBER:

M-100

SHEET 67 OF 172

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1 / M-101 FIRST FLOOR - DUCTWORK - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

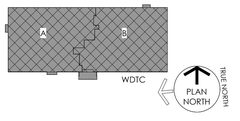
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: EKD
CHK'D BY: SRH

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FIRST FLOOR - DUCTWORK - NEW WORK PLAN

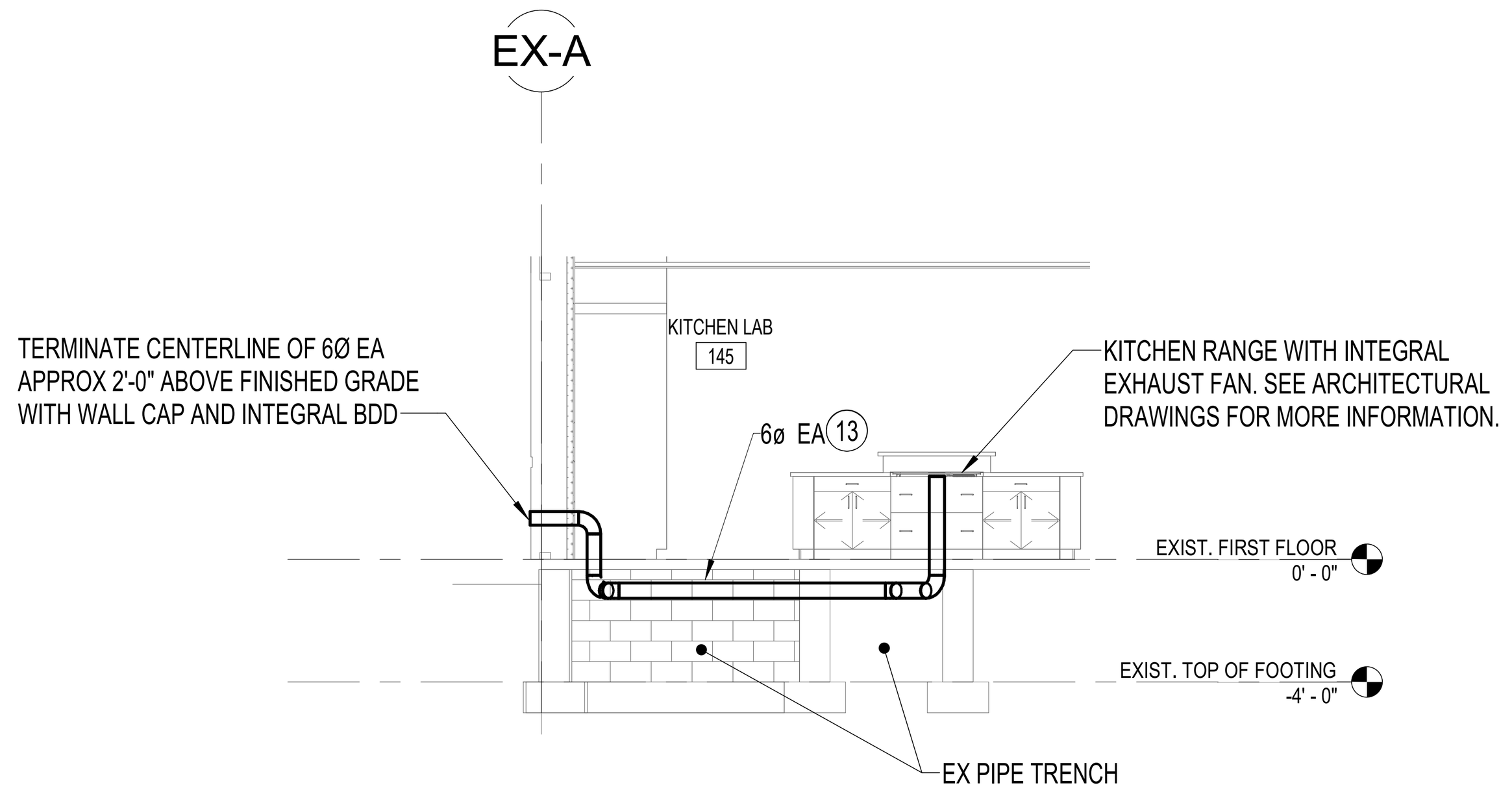
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SHEET 68 OF 172

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2 M-101A KITCHEN RANGE - DUCTWORK - NEW WORK SECTION
3/16" = 1'-0"

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

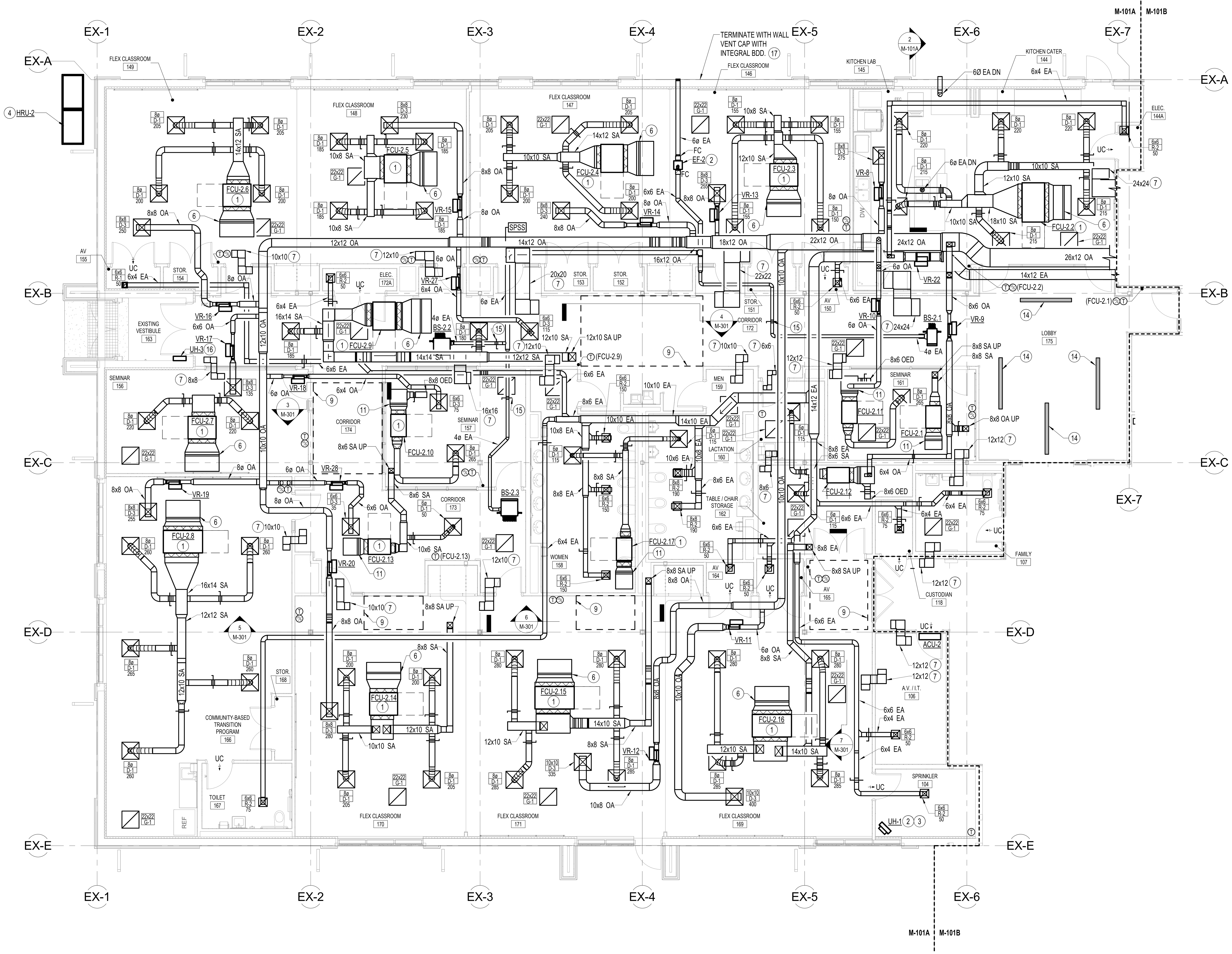
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2. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
3. PROVIDE FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCT CONNECTIONS TO ALL FCU'S.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) PROVIDE 24" LONG INSULATED RETURN PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
(2) SUPPORT FROM ABOVE.
(3) MOUNT TOP OF UNIT APPROXIMATELY 9'-0" AFF.
(4) MOUNT ON 4" CONCRETE HOUSEKEEPING PAD.
(5) 72" L x 6" W x 8" H INSULATED PLENUM, 85 CFM.
(6) PROVIDE 48" W x 12" H x 2" D FILTER RACK ON FCU INLET.
(7) INTERNALLY LINED TRANSFER DUCT.
(8) PROVIDE REMOTE OPERATED DAMPER.
(9) DUCTWORK AND MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN LIGHT SHAFT.
(10) MOUNT DIFFUSERS 19' 10" AFF.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(11) PROVIDE 24" W x 12" H x 2" D FILTER RACK ON FCU INLET.
(12) NOT USED.
(13) SUBSLAB DUCTWORK SHALL BE PVC-COATED. REFER TO SPECIFICATION SECTION 23 31 13 METAL DUCTS FOR MORE INFORMATION.
(14) 6 FT LONG D-2 WITH (1) 1/2" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANEL PAINTED BLACK.
(15) BALANCE TO 35 CFM.
(16) MOUNT ON WALL WITH TOP OF UNIT 48" AFF.
(17) MOUNT 10' 3" AFF



1 M-101A FIRST FLOOR NORTH - DUCTWORK - NEW WORK PLAN
3/16" = 1'-0"

3/16" = 1' - 0" 0 3 6 12 18 FT

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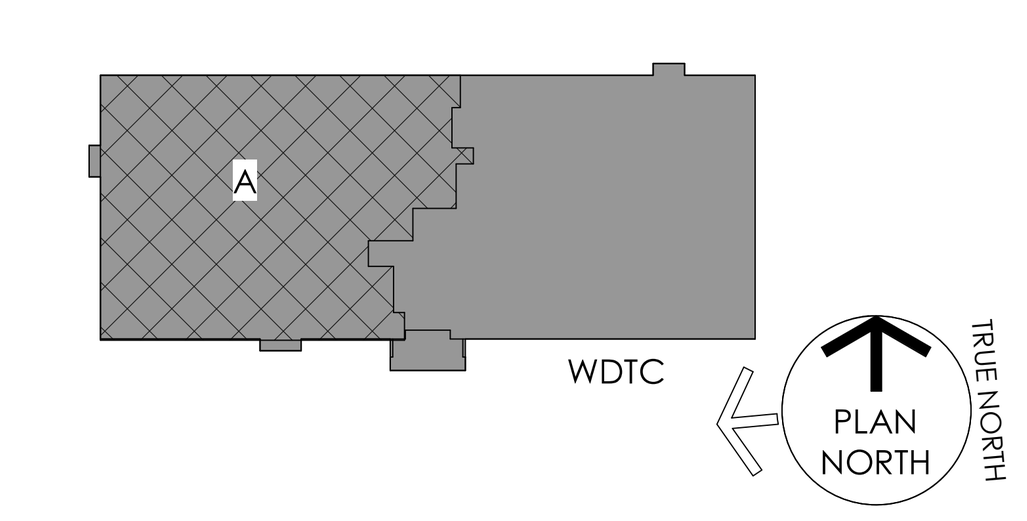
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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR NORTH - DUCTWORK - NEW WORK PLAN

SHEET NUMBER:

M-101A

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2. RUNOUTS TO DIFFUSERS SHALL BE SAME SIZE AS DIFFUSER NECK SIZE UNLESS OTHERWISE NOTED.
3. PROVIDE FLEXIBLE CONNECTION ON SUPPLY AND RETURN DUCT CONNECTIONS TO ALL FCU'S.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

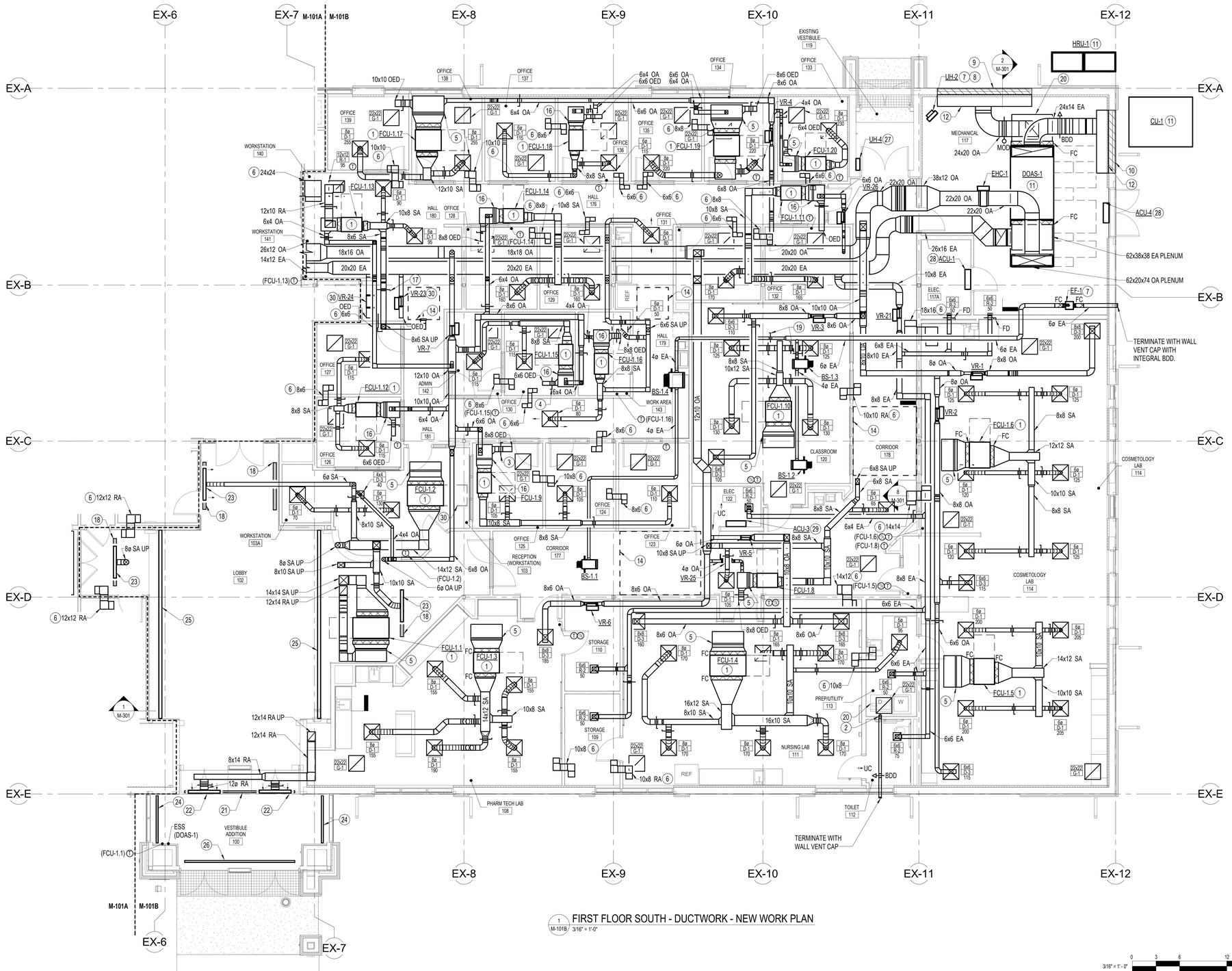
1. PROVIDE 24" LONG INSULATED RETURN PLENUM. WIDTH AND HEIGHT SHALL MATCH UNIT CONNECTION SIZE.
2. PROVIDE DRYER VENT WALL BOX WITH 4" OVAL DUCT TO CEILING PENETRATION, TRANSITION TO 4" Ø IN CEILING. TERMINATE THROUGH WALL WITH VENT CAP, COLOR AS SELECTED BY THE ARCHITECT.
3. BALANCE TO 205 CFM.
4. BALANCE TO 115 CFM.
5. PROVIDE 48" W x 12" H x 2" D FILTER RACK ON FCU INLET.
6. INTERNALLY LINED TRANSFER DUCT.
7. SUPPORT FROM ABOVE.
8. MOUNT TOP OF UNIT APPROX 8'-0" AFF.
9. OA INTAKE LOUVER. SEE ARCH DRAWINGS FOR MORE INFORMATION. APPROX 12'-0" W x 4'-0" H AT 5,045 CFM, 250 FPM, AND 50% FREE AREA.
10. EA LOUVER. SEE ARCH DRAWINGS FOR MORE INFORMATION. APPROX 8'-0" W x 3'-0" H AT 4,715 CFM, 500 FPM, AND 50% FREE AREA.
11. MOUNT ON 4" CONCRETE HOUSEKEEPING PAD.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

12. 18" DEEP INSULATED PLENUM. LENGTH AND HEIGHT SHALL MATCH LOUVER SIZE.
13. 10x10 TRANSFER GRILLE.
14. DUCTWORK AND MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN LIGHT SHAFT.
15. MOUNT DIFFUSERS 18' AFF.
16. PROVIDE 24" W x 12" H x 2" D FILTER RACK ON FCU INLET.
17. PROVIDE REMOTE OPERATED DAMPERS. TERMINATE CABLE IN LINEAR SLOT PLENUM.
18. 6 FT LONG D-2 WITH (4) 1" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANELS PAINTED BLACK.
19. BALANCE TO 50 CFM.
20. PROVIDE LINT TRAP FOR DRYER.
21. 14 FT LONG D-2 WITH (4) 1" SLOTS. BLANK OFF UNUSED PORTIONS WITH INSULATED PANELS PAINTED BLACK.
22. 48" L x 6" W x 18" H INSULATED PLENUM, 550 CFM.
23. 48" L x 6" W x 10" H INSULATED PLENUM, 125 CFM.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

24. 6 FT LONG D-2 WITH (4) 1/2" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANEL PAINTED BLACK.
25. 24 FT LONG D-2 WITH (4) 1/2" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANELS PAINTED BLACK.
26. 14 FT LONG D-2 WITH (4) 1/2" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANEL PAINTED BLACK.
27. MOUNT ON WALL WITH TOP OF UNIT 48" AFF.
28. MOUNT ON WALL ABOVE DOOR.
29. MOUNT ON WALL 7' 0" AFF.
30. LEAVE ROOM TO ACCESS PANEL FOR MAINTENANCE.



1 M-101B FIRST FLOOR SOUTH - DUCTWORK - NEW WORK PLAN
3/16" = 1'-0"

3/16" = 1'-0" 0 3 6 12 18 FT

PROJECT TEAM

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PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

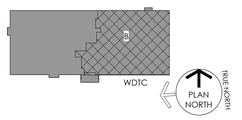
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR SOUTH - DUCTWORK - NEW WORK PLAN

SHEET NUMBER:

M-101B

SHEET 70 OF 172

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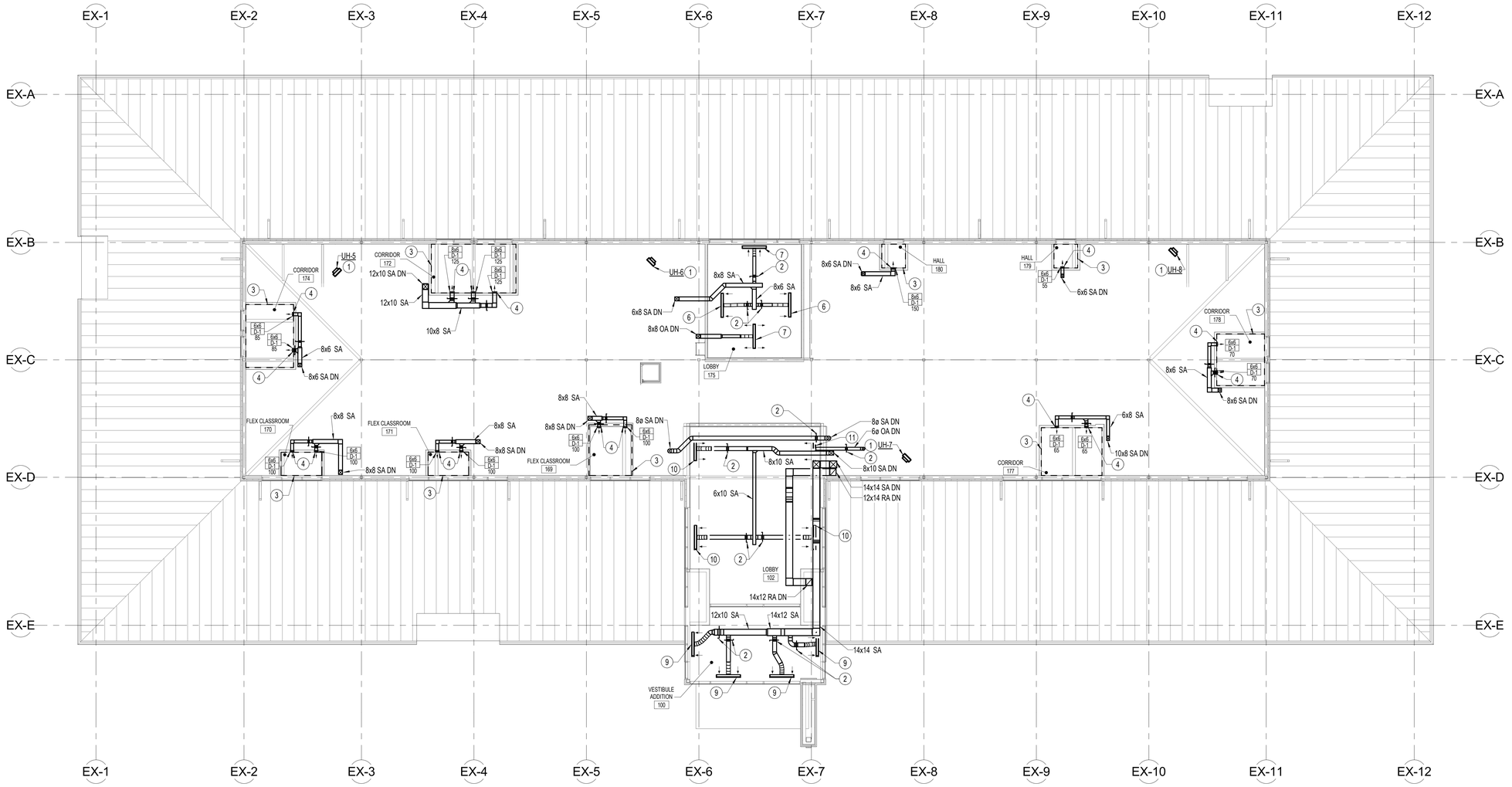
11/5/2026 4:37:24 PM Autodesk Docs://25909 Allegany College of MD ACM.WTDC Renovation/HVAC 25-A009 - Mechanical Central (2025).rvt

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS TO THE COR FOR RESOLUTION. AWAIT WRITTEN DIRECTION BEFORE PROCEEDING.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. SUPPORT FROM ABOVE.
2. PROVIDE REMOTE OPERATED DAMPER. TERMINATE CABLE IN LINEAR SLOT PLENUM.
3. DUCTWORK AND MECHANICAL EQUIPMENT SHALL NOT BE INSTALLED IN LIGHT SHAFT.
4. MOUNT DIFFUSERS 18' AFF.
5. 6 FT LONG D-2 WITH (4) 1" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANEL PAINTED BLACK.
6. 72" L x 6" W x 8" H INSULATED PLENUM, 90 CFM, 6ø NECK.
7. 48" L x 6" W x 8" H INSULATED PLENUM, 75 CFM, 6ø NECK.
8. 24 FT LONG D-2 WITH (1) 1" SLOT. BLANK OFF UNUSED PORTIONS WITH INSULATED PANELS PAINTED BLACK.
9. 48" L x 6" W x 10" H INSULATED PLENUM, 275 CFM, 8ø NECK.
10. 48" L x 6" W x 10" H INSULATED PLENUM, 125 CFM, 8ø NECK.
11. 48" L x 6" W x 10" H INSULATED PLENUM, 100 CFM, 8ø NECK.



1 M-102 CLERESTORY - DUCTWORK - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
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Structural Engineers
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P: 301.258.8884

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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

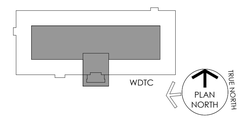
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
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	50% CONSTRUCTION DOCUMENTS	06/26/2026
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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

CLERESTORY - DUCTWORK - NEW WORK PLAN

SHEET NUMBER:

M-102

SHEET 71 OF 172

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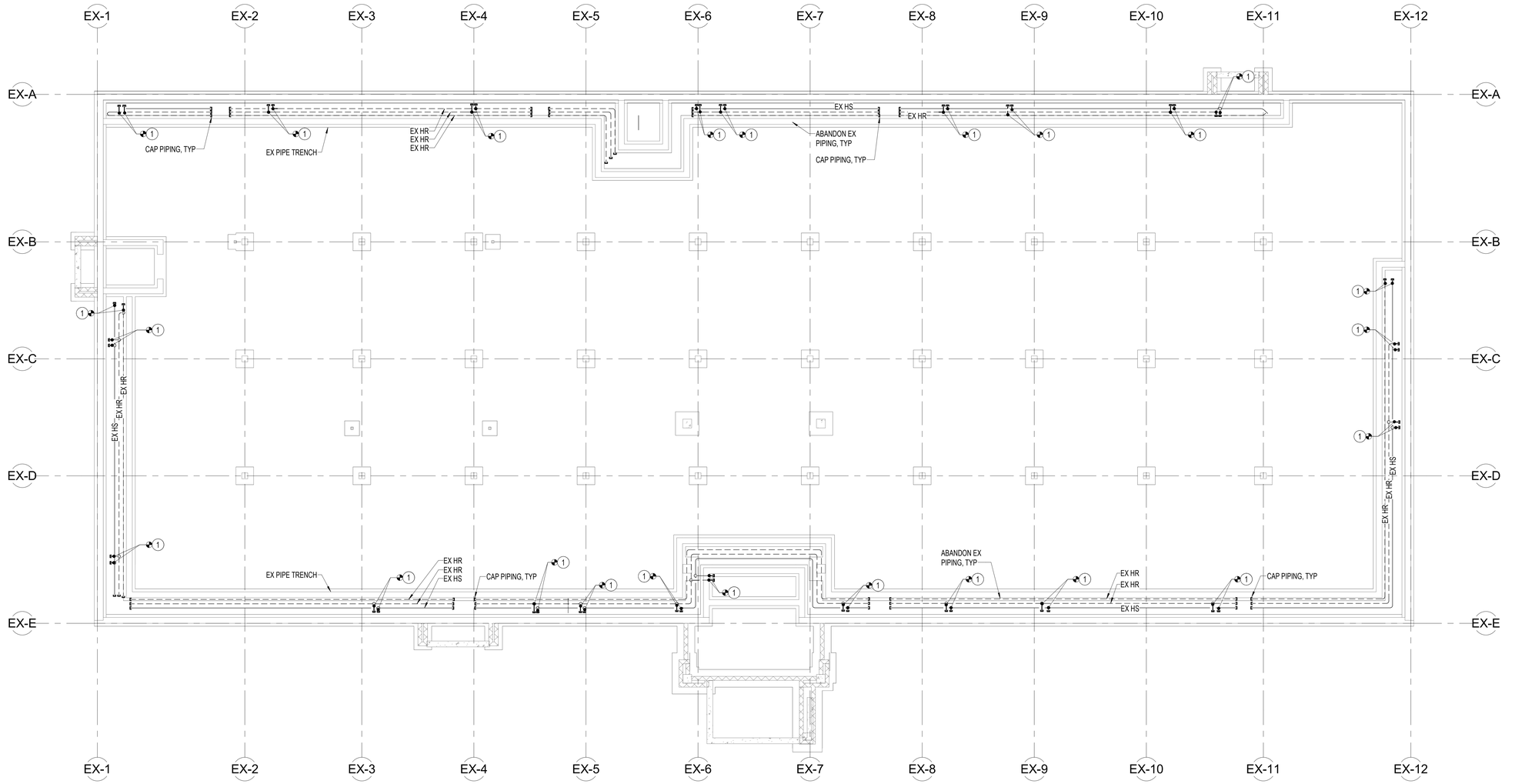
11/5/2026 4:37:26 PM Autodesk Docs://25909 Allegany College of MD\ACA-WTDC Renovation (HA) 25-A009 - Mechanical Central (2026).rvt

DRAWING NOTES:
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) CAP HS/HR.



1 / M-200 FOUNDATION - MECHANICAL PIPING - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

11/5/2026 4:37:28 PM Autodesk Docs://25909 Allegany College of MD /ACAA WTDC Renovation (HA) 25-A009 - Mechanical Central (2025).rvt

PROJECT TEAM

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ARCHITECTS
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License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

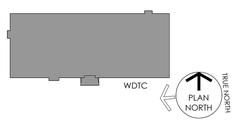
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FOUNDATION - MECHANICAL PIPING - NEW WORK PLAN

SHEET NUMBER:

M-200

SHEET 72 OF 172

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DRAWING NOTES:
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2. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

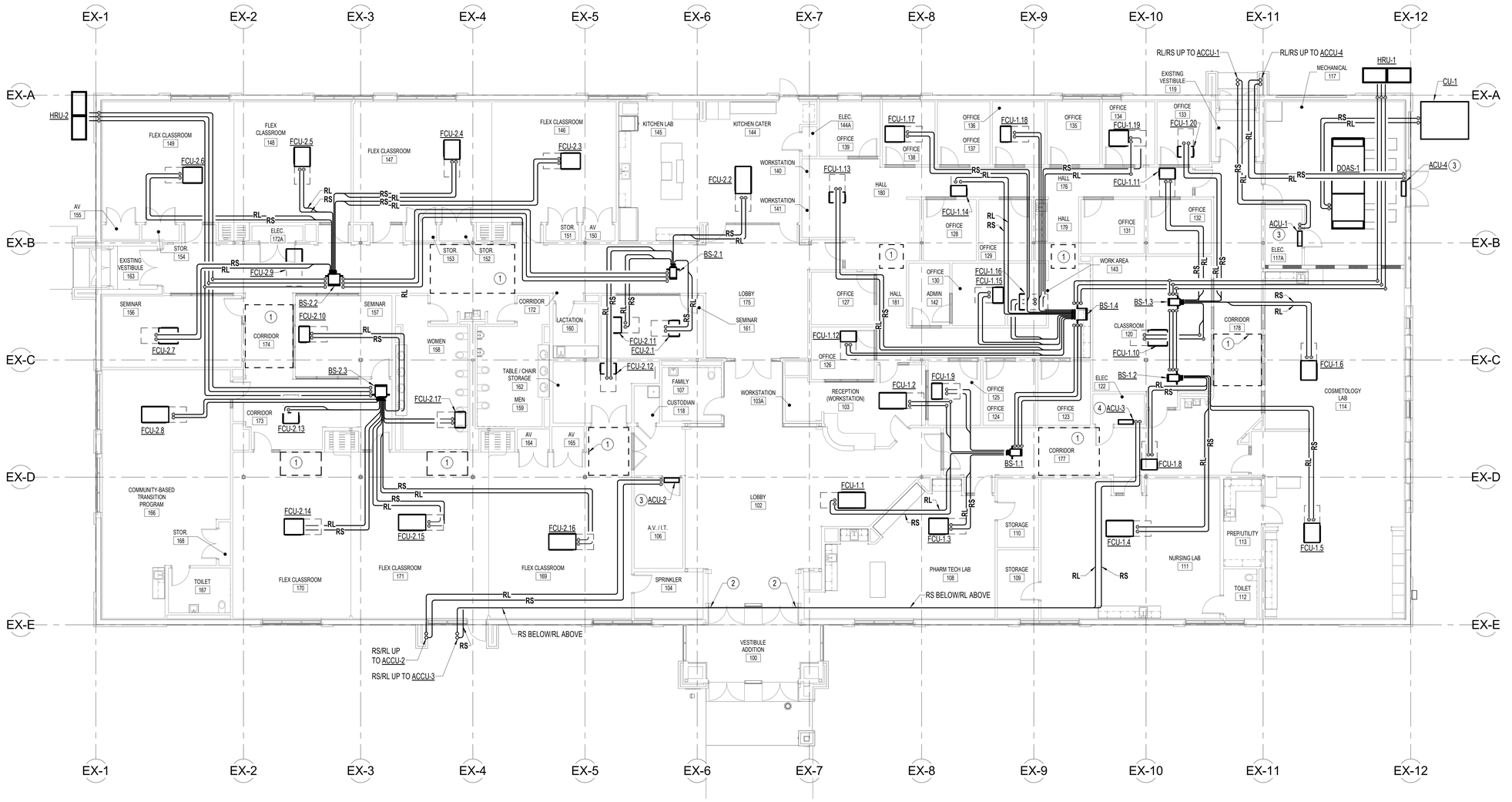
SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) MECHANICAL PIPING AND EQUIPMENT SHALL NOT BE INSTALLED IN LIGHT SHAFT.

(2) RS/RL SHALL RUN THROUGH BULKHEAD IN 102 LOBBY.

(3) MOUNT ON WALL ABOVE DOOR.

(4) MOUNT ON WALL 7'0" AFF.



1 M-201 FIRST FLOOR - MECHANICAL PIPING - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
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License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

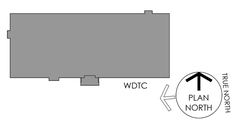
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR - MECHANICAL PIPING - NEW WORK PLAN

SHEET NUMBER:

M-201

SHEET 73 OF 172

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11/5/2026 4:37:32 PM Autodesk Docs://25909 Allegany College of MD /ACAA WTDC Renovation (HA) 25-A009 - Mechanical Central (2026).rvt

DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

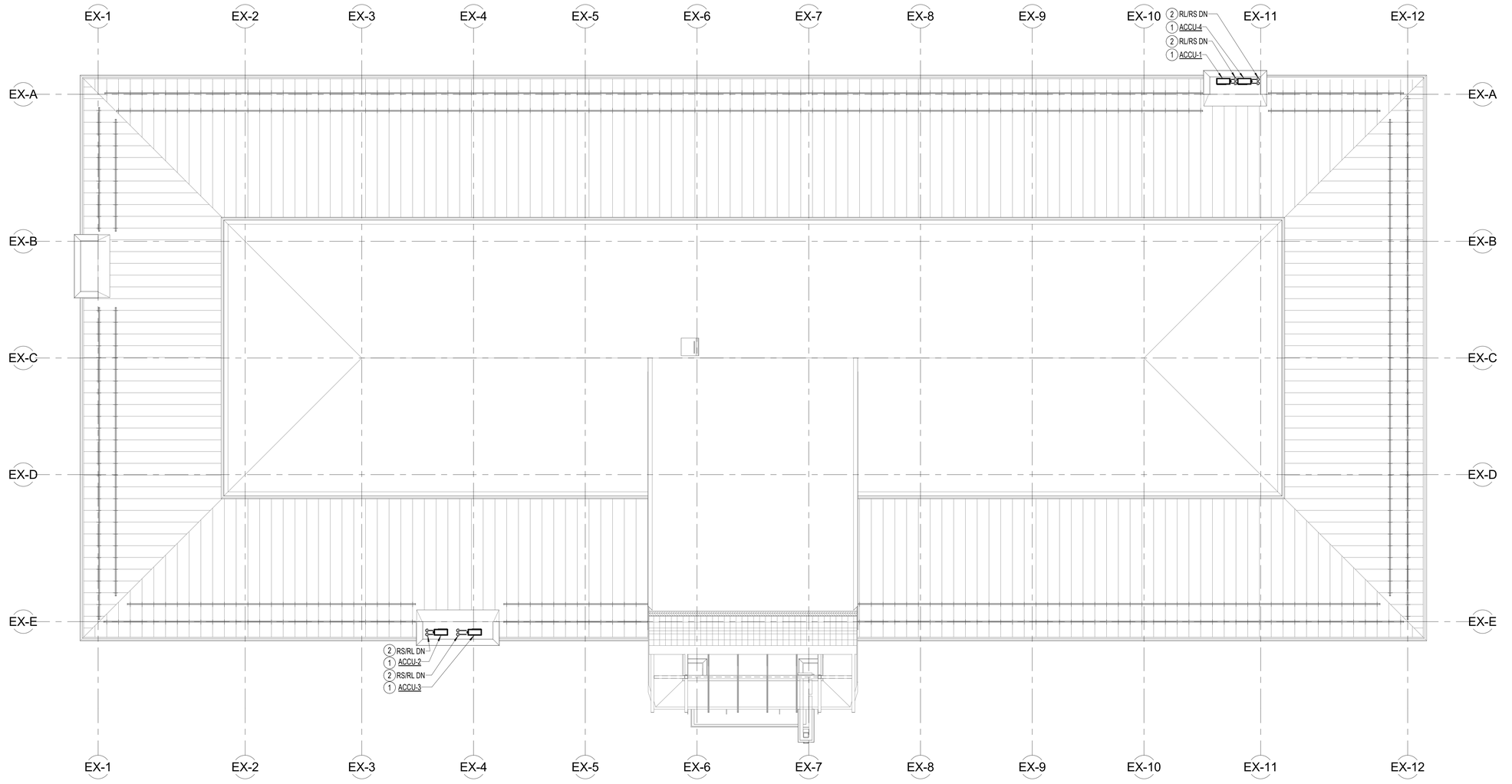
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2. REFRIGERANT PIPING SHALL BE SIZED BY ASSOCIATED EQUIPMENT MANUFACTURER.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) MOUNT ON 18" EQUIPMENT STANDS.

(2) PROVIDE PIPE PORTAL.



1 M-202 ROOF - DUCTWORK - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
P: 301.662.8611 | F: 301.662.8632
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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

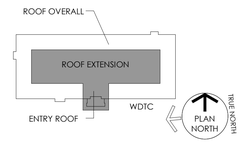
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF - MECHANICAL PIPING - NEW WORK PLAN

SHEET NUMBER:

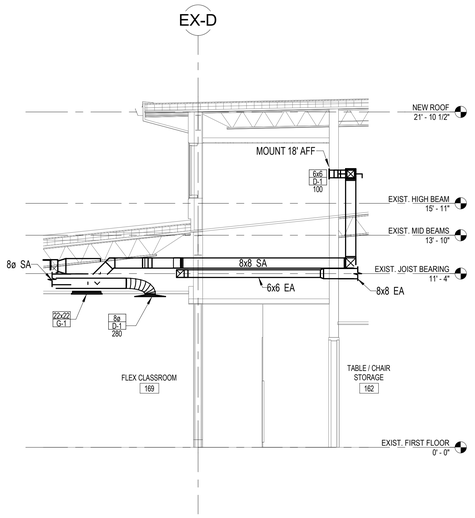
M-202

SHEET 74 OF 172

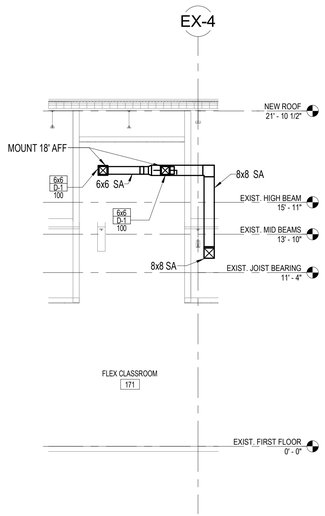
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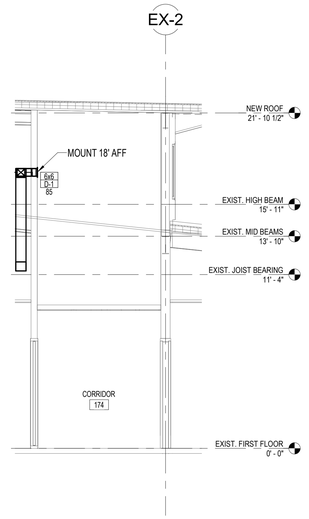
DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
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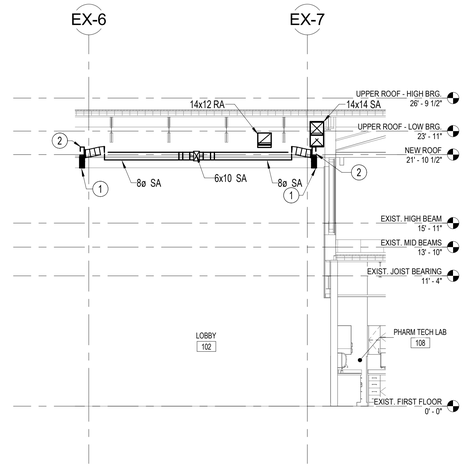
7 M-301 169 FLEX CLASSROOM - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



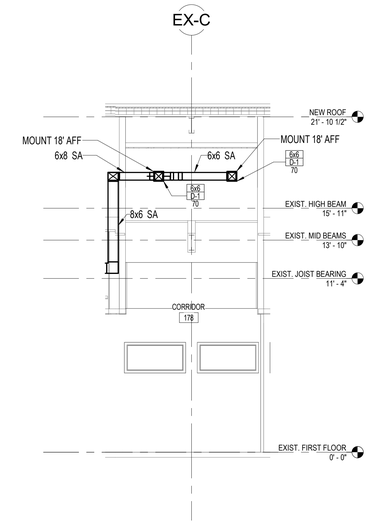
6 M-301 171 FLEX CLASSROOM - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



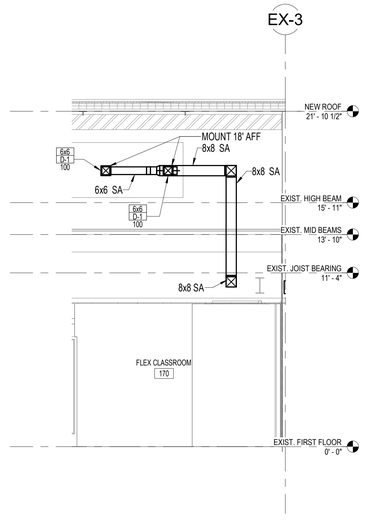
3 M-301 174 CORRIDOR - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



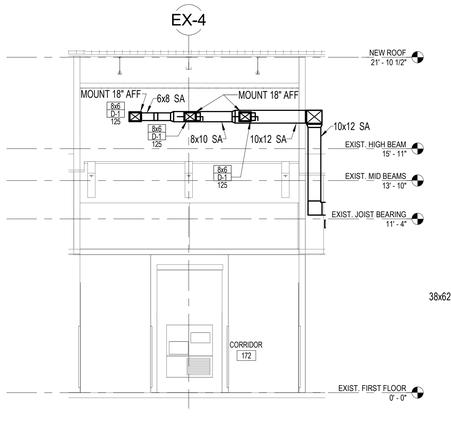
1 M-301 102 LOBBY - DUCTWORK - NEW WORK SECTION
3/16" = 1'-0"



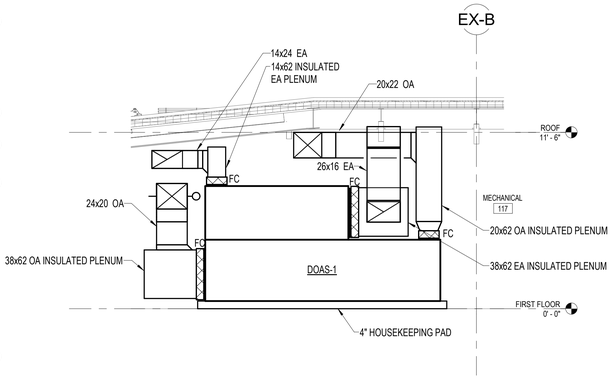
8 M-301 178 CORRIDOR - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



5 M-301 170 FLEX CLASSROOM - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



4 M-301 172 CORRIDOR - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"



2 M-301 MECHANICAL ROOM - DUCTWORK - NEW WORK SECTION
1/4" = 1'-0"

1/4" = 1' - 0" 0 2 4 8 12 FT

PROJECT TEAM

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ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

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Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL SECTIONS

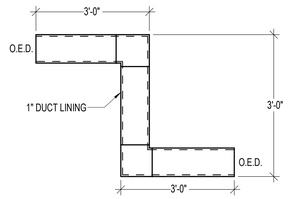
SHEET NUMBER:

M-301

SHEET 75 OF 172

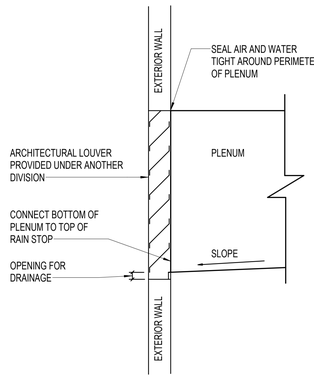
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11/5/2026 4:37:39 PM Autodesk Docs://25909 Allegany College of MD ACAM/TDC Renovation/H14_25-A009 - Mechanical Central (2025).rvt

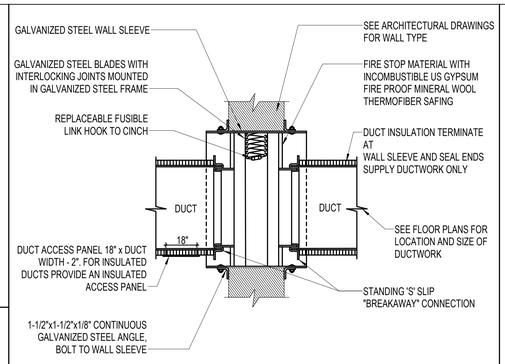


NOTE:
1. DUCT SIZE INDICATED ON DRAWING.

TRANSFER DUCT

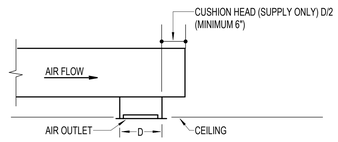


PLENUM CONNECTION TO LOUVER



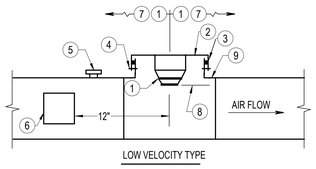
NOTES:
1. FIRE DAMPERS TO HAVE BREAKAWAY JOINT BETWEEN COLLARS AND DUCT (COLLARS SHALL BE INTEGRAL WITH FIRE DAMPERS FRAME
2. FIRE DAMPER SHALL BE U.L. LABELED.
3. U.L. 555.
4. GALVANIZED SLEEVE AND FRAME CONSTRUCTION SHALL BE MINIMUM 20 GA. SHOULD DUCT BE HEAVIER THAN 20 GAUGE, PROVIDE SLEEVE AND FRAME TO MATCH DUCT CONSTRUCTION.

VERTICAL FIRE DAMPER INSTALLATION



NOTES:
1. AIR FLOW IS REVERSE FOR RETURN AND EXHAUST.

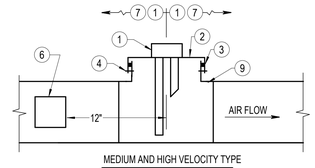
OUTLET LOCATED AT END OF RUN



LOW VELOCITY TYPE

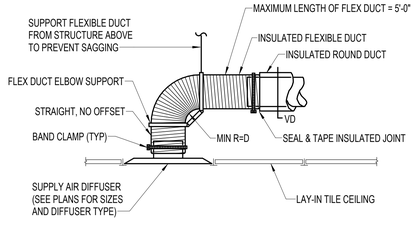
SPECIAL NOTES:

1. SMOKE DETECTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS
2. 10 GAUGE CAP.
3. CONTINUOUS GASKET.
4. SHEET METAL SCREWS 3" ON CENTER. MINIMUM 4 SCREWS
5. AIR FLOW MEASUREMENT PORT. (INSTRUMENT TEST HOLE)
6. ACCESS DOOR. 6" X 6" IN 14" DIAMETER AND SMALLER DUCTS. 12" X 12" IN LARGER DUCTS.
7. MINIMUM 3 DUCT DIAMETERS TO OFFSET OR FITTING.
8. MINIMUM 1- 1/4" PROJECTION INTO AIRSTREAM. MAXIMUM 1/3 DUCT DIAMETER.
9. STRAIGHT "T" FITTING. TRIM AS REQUIRED TO ACCOMMODATE INSTALLATION.

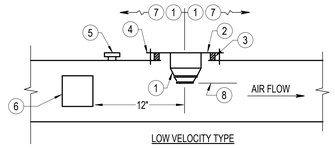


MEDIUM AND HIGH VELOCITY TYPE

SMOKE DETECTOR INSTALLATION ROUND OR OVAL DUCT



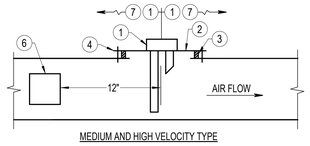
SUPPLY AIR DIFFUSER FLEXIBLE DUCT CONNECTION



LOW VELOCITY TYPE

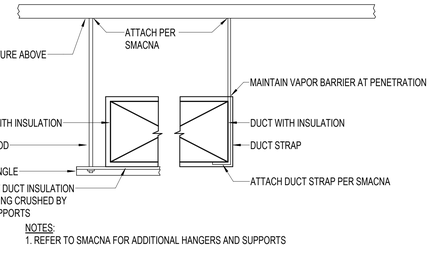
SPECIAL NOTES:

1. SMOKE DETECTOR. INSTALL PER MANUFACTURER'S RECOMMENDATIONS.
2. 10 GAUGE PLATE
3. CONTINUOUS GASKET
4. SHEET METAL SCREWS. TWO PER SIDE.
5. AIR FLOW MEASUREMENT PORT. (INSTRUMENT TEST HOLE)
6. ACCESS DOOR. 6" X 6" IN 14" AND SMALLER DUCTS. 12" X 12" IN LARGER DUCTS.
7. MINIMUM ONE DUCT PERIMETER TO OFFSET OR FITTING
8. MINIMUM 1-1/4" PROJECTION INTO AIRSTREAM. MAXIMUM 1/3 DUCT DEPTH



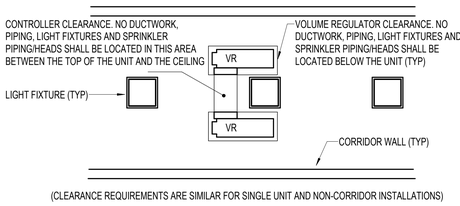
MEDIUM AND HIGH VELOCITY TYPE

SMOKE DETECTOR INSTALLATION RECTANGULAR OR SQUARE DUCT



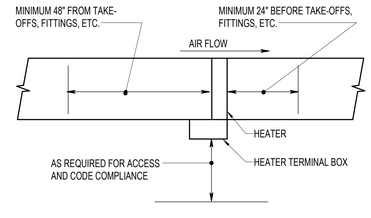
NOTES:
1. REFER TO SMACNA FOR ADDITIONAL HANGERS AND SUPPORTS

DUCT INSULATION SUPPORT DETAIL



(CLEARANCE REQUIREMENTS ARE SIMILAR FOR SINGLE UNIT AND NON-CORRIDOR INSTALLATIONS)

VOLUME REGULATOR CLEARANCE REQUIREMENTS



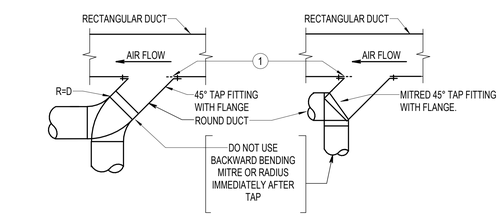
ELECTRIC DUCT HEATER

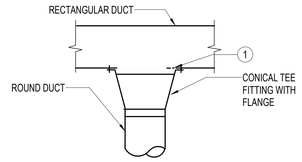
NOTES:
1. SEE SMACNA MANUAL FOR METHODS OF SECURING TAP-OFF CONNECTION TO MAIN.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

SPECIAL NOTES:

1. 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

TAPOFF AND TRANSITION FROM SIDE OF DUCT



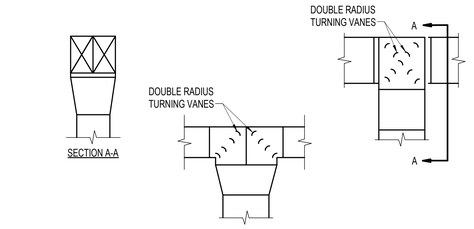


NOTES:
1. DO NOT USE 45° TAP FITTINGS EXCEPT WHERE TIGHT CONDITION PREVENTS USE OF OTHER FITTINGS INDICATED.

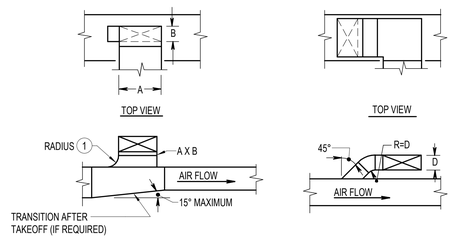
SPECIAL NOTES:

1. CUT HOLE IN RECTANGULAR DUCT LARGE ENOUGH SO THAT ROUGH METAL EDGE DOES NOT PROJECT INTO AIR STREAM.

TAPOFF FROM RECTANGULAR DUCT TO ROUND DUCT



DUCT SPLITS

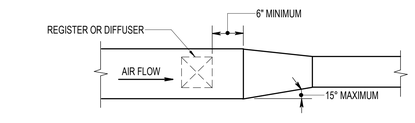


NOTES:
1. BOTTOM TAKEOFFS SIMILAR.
2. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED

SPECIAL NOTES:

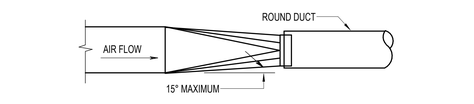
1. 45° TAP PERMITTED FOR DUCTWORK RATED 2" W.G. OR LESS.

TAKEOFFS FROM TOP OF RECTANGULAR DUCTS



NOTES:
1. SAME FOR RETURN AND EXHAUST DUCTS EXCEPT AIR FLOW IS REVERSED.

DIFFUSER OR REGISTER TAPOFF AND TRANSITION



NOTES:
1. FOR AIR FLOW IN OPPOSITE DIRECTION, TRANSITION COLLAR SHALL OVERLAP EXTERIOR OR ROUND DUCT.

RECTANGULAR TO ROUND DUCT TRANSITION

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL DETAILS

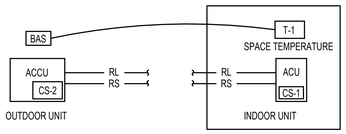
SHEET NUMBER:

M-501

SHEET 76 OF 172

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1. TEMPERATURE SENSOR T-1 MAINTAINS SPACE TEMPERATURE AT 75 DEGREES F BASED ON MANUFACTURER'S SUPPLIED CONTROLS.
2. IF SPACE TEMPERATURE RISES TO 95 DEGREES F, AND ALARM SHALL BE SENT TO THE BAS. ATC CONTRACTOR SHALL PROVIDE SPACE TEMPERATURE SENSOR IF REQUIRED TO ALLOW FOR ALARM TO SEND THROUGH BAS.
3. CONTROLS TYPICAL FOR ACU-1 THROUGH ACU-4 AND ACCU-1 THROUGH ACCU-4.

INPUT/OUTPUT SUMMARY

DX SPLIT SYSTEM	GRAPHIC	INDICATION: STATUS	TEMPERATURE	RELATIVE HUMIDITY	GPM	KWH	PRESSURE	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
SYSTEM	●	●																		BAS, CS-1, CS-2
SPACE			●									●								T-1

DX SPLIT SYSTEM

BAS BUILDING AUTOMATION SYSTEM

1. INTERFACE BUILDING WATER METER AND SUB-METERS WITH BUILDING AUTOMATION SYSTEM.

INPUT/OUTPUT SUMMARY (1)

SYSTEM	GRAPHIC	INDICATION: STATUS	TEMPERATURE	DIFFERENTIAL PRESSURE	GPM	GALLONS	PRESSURE	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
BUILDING WATER METER AND SUB-METERS	●				●	●														

(1) ALL POINTS INDICATED IN THE I/O POINTS LIST SHALL BE TRENDED AT A MINIMUM OF 15 MINUTE INTERVALS AND REPORTED HOURLY, DAILY, WEEKLY, MONTHLY AND ANNUALLY. ALL TRENDING DATA SHALL BE STORED FOR A MINIMUM OF 5 YEARS.

BUILDING WATER METER AND SUB-METERS

BAS BUILDING AUTOMATION SYSTEM

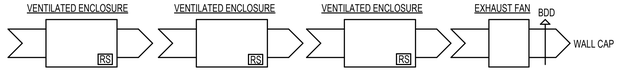
1. INTERFACE BUILDING ELECTRICAL METER WITH BUILDING AUTOMATION SYSTEM.

INPUT/OUTPUT SUMMARY (1)

SYSTEM	GRAPHIC	INDICATION: STATUS	TEMPERATURE	DIFFERENTIAL PRESSURE	GPM	KWH	PRESSURE	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
BUILDING ELECTRICAL METER	●					●														

(1) ALL POINTS INDICATED IN THE I/O POINTS LIST SHALL BE TRENDED AT A MINIMUM OF 15 MINUTE INTERVALS AND REPORTED HOURLY, DAILY, WEEKLY, MONTHLY AND ANNUALLY. ALL TRENDING DATA SHALL BE STORED FOR A MINIMUM OF 5 YEARS.

BUILDING ELECTRICAL METER



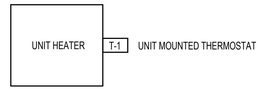
1. WHEN REFRIGERANT LEAK IS DETECTED BY BRANCH SELECTOR BOX INTEGRAL REFRIGERANT SENSOR, EXHAUST FAN SHALL START AND AN ALARM SHALL SEND THROUGH BAS.
2. UPON FAILURE OF FAN, AN ALARM SHALL SOUND THROUGH BAS.
3. CONTROLS TYPICAL FOR EF-1 AND EF-2.

INPUT/OUTPUT SUMMARY

SYSTEM	GRAPHIC	INDICATION: STATUS	TEMPERATURE	RELATIVE HUMIDITY	CFM	STATIC PRESSURE	DIFFERENTIAL PRESSURE	POSITION	RUN TIME	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	OPEN/CLOSED	REMARKS
EXHAUST FAN	●	●							●			●		●				CS-1
REFRIGERANT SENSOR		●										●						RS

VENTILATED ENCLOSURE FANS

BAS BUILDING AUTOMATION SYSTEM



1. WHEN SPACE TEMPERATURE AS SENSED BY THERMOSTAT T-1 IS AT OR BELOW 65 DEGREES F, UNIT HEATER'S FAN SHALL OPERATE AND ELECTRIC COIL SHALL BE ENERGIZED.
2. WHEN SPACE TEMPERATURE RISES ABOVE 70 DEGREES F, UNIT HEATER'S ELECTRIC COIL IS DE-ENERGIZED AND FAN SHALL STOP
3. WHEN SPACE TEMPERATURE AT T-1 FALLS BELOW 55 DEGREES F, AN ALARM SHALL SOUND THROUGH THE BAS.
4. CONTROLS TYPICAL FOR ELECTRIC UNIT HEATERS UH-1 THROUGH UH-2 AND UH-5 THROUGH UH-8.

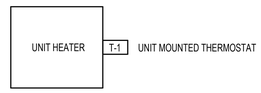
INPUT/OUTPUT SUMMARY

ELECTRIC UNIT HEATERS	GRAPHIC	INDICATION: STATUS	TEMPERATURE	RELATIVE HUMIDITY	GPM	KWH	PRESSURE	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
ELECTRIC UNIT HEATERS	●	●	●										●							T-1, CS-1

ELECTRIC UNIT HEATERS

BAS BUILDING AUTOMATION SYSTEM

T-2 OUTDOOR AIR TEMPERATURE SENSOR (GLOBAL)



1. WHEN OUTDOOR AIR TEMPERATURE AT T-2 IS GREATER THAN 45 DEGREES F, VESTIBULE HEATING SHALL BE LOCKED OUT.
2. WHEN SPACE TEMPERATURE AS SENSED BY THERMOSTAT T-1 IS AT OR BELOW 55 DEGREES F, UNIT HEATER'S FAN SHALL OPERATE AND ELECTRIC COIL SHALL BE ENERGIZED.
3. WHEN SPACE TEMPERATURE RISES ABOVE 60 DEGREES F, UNIT HEATER'S ELECTRIC COIL IS DE-ENERGIZED AND FAN SHALL STOP
4. WHEN SPACE TEMPERATURE AT T-1 FALLS BELOW 45 DEGREES F, AN ALARM SHALL SOUND THROUGH THE BAS.
5. CONTROLS TYPICAL FOR ELECTRIC UNIT HEATERS UH-3 THROUGH UH-4.

INPUT/OUTPUT SUMMARY

ELECTRIC UNIT HEATERS	GRAPHIC	INDICATION: STATUS	TEMPERATURE	RELATIVE HUMIDITY	GPM	KWH	PRESSURE	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
ELECTRIC UNIT HEATERS - VESTIBULES	●	●	●										●							T-1, T-2, CS-1

ELECTRIC UNIT HEATERS - VESTIBULES

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Structural Engineers
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Data / Communications
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Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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	100% CONSTRUCTION DOCUMENTS	9/25/2026
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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUTOMATIC TEMPERATURE CONTROLS

SHEET NUMBER:

M-601

SHEET 77 OF 172

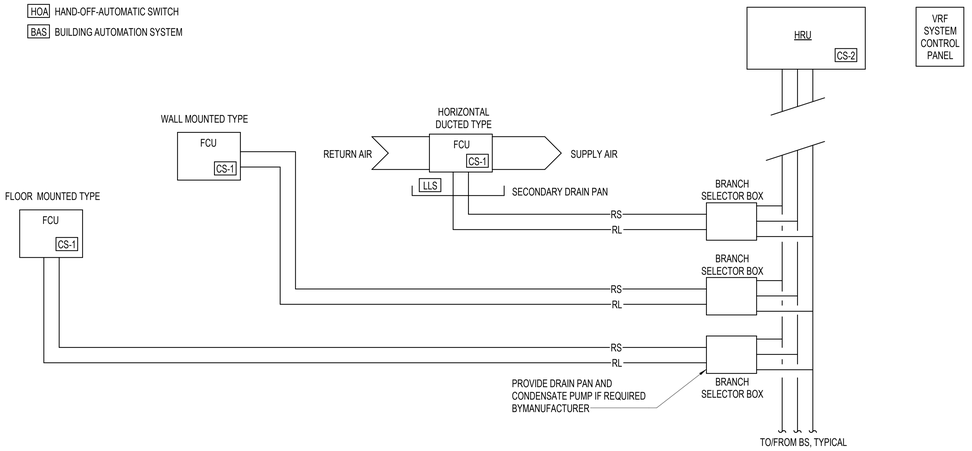
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T-1 SPACE TEMPERATURE SENSOR WITH OVERRIDE (TYPICAL)

HOA HAND-OFF-AUTOMATIC SWITCH

BAS BUILDING AUTOMATION SYSTEM



VARIABLE FLOW REFRIGERANT HEAT RECOVERY SYSTEM - CONTROL DIAGRAM

VARIABLE REFRIGERANT HEAT RECOVERY SYSTEM - SEQUENCE OF OPERATION

GENERAL:

1. THE VARIABLE REFRIGERANT SYSTEM SHALL BE STARTED AND STOPPED THROUGH A SYSTEM CONTROL PANEL PROVIDED BY THE SYSTEM MANUFACTURER. SYSTEM MANUFACTURER SHALL PROVIDE INTERFACE TO BAS.

2. ALL SAFETIES AND ASSOCIATED CONTROL INTERLOCKS SHALL BE HARDWIRED AND SHALL REMAIN ACTIVE IN ALL HOA SWITCH POSITIONS.

3. ALL TEMPERATURE SENSORS SHALL PERMIT SYSTEM OVERRIDE DURING THE UNOCCUPIED MODE AND SHALL ALLOW SYSTEM TO OPERATE FOR ONE HOUR (ADJUSTABLE 0-4 HOURS) IN THE OCCUPIED MODE.

4. IF A HIGH WATER LEVEL IS SENSED BY THE LIQUID LEVEL SENSOR (LLS) INSTALLED IN THE FCU (AND BRANCH SELECTOR BOX IF REQUIRED BY MANUFACTURER) SECONDARY DRAIN PAN, THE FCU SHALL SHUTDOWN AND AN ALARM SHALL BE SENT THROUGH THE BAS.

5. IF A CONDENSATE PUMP CP-1 SENSES FAILURE THROUGH ITS SECURITY SWITCH, FCU SHALL SHUTDOWN AND ALARM SHALL SOUND THROUGH BAS.

6. ALL POINTS SHALL BE ADJUSTABLE.

7. LIQUID-LEVEL-GAGE GLASS COLUMNS SHALL HAVE AUTOMATIC CLOSING SHUTOFF VALVES. ALL SUCH GLASS COLUMNS SHALL BE PROTECTED AGAINST EXTERNAL DAMAGE AND PROPERLY SUPPORTED.

8. IF SPACE TEMPERATURE AT T-1 FALLS, BELOW 60 DEGREES F (ADJUSTABLE), AN ALARM SHALL SOUND THROUGH THE BAS.

9. A "CHANGE FILTER" MAINTENANCE ALARM SHALL BE SENT THROUGH THE BAS WHEN DETERMINED BY VRF MANUFACTURER'S PACKAGED CONTROLS.

10. UPON FAILURE OF FCU, AN ALARM SHALL SOUND THROUGH BAS.

11. UPON FAILURE OF HRU, AN ALARM SHALL SOUND THROUGH BAS.

STARTING AND STOPPING :

1. WHEN THE SYSTEM IS ENERGIZED TO OPERATE, FAN COIL UNITS START AND ASSOCIATED HEAT RECOVERY UNITS (HRU) ARE ENERGIZED. SYSTEM OPERATES THROUGH MANUFACTURER'S SUPPLIED SYSTEM CONTROL PANEL.

2. WHEN SYSTEM IS DE-ENERGIZED, FAN COIL UNITS STOP AND ASSOCIATED HEAT RECOVERY UNIT STOPS.

OCCUPIED MODE :

1. FAN COIL UNITS ARE ON AND ASSOCIATED HRU'S ARE ENERGIZED.

2. SPACE TEMPERATURE SENSOR, T-1 CONTROLS IT'S RESPECTIVE FAN COIL UNIT THROUGH MANUFACTURER'S SUPPLIED CONTROLS TO MAINTAIN SPACE TEMPERATURE OF 75 DEGREES F IN COOLING SEASON AND 70 DEGREES F IN HEATING SEASON.

3. HEAT RECOVERY UNITS, HRU, REJECT/ABSORB EXCESS HEAT BASED ON THE BRANCH SELECTOR BOX REQUIREMENTS THROUGH THE MANUFACTURER'S SYSTEM CONTROL PANEL.

UNOCCUPIED MODE :

1. FAN COIL UNITS ARE OFF AND HRU'S ARE DE-ENERGIZED.

2. WINTER NIGHT SETBACK TEMPERATURE OF 65 DEGREES F (ADJUSTABLE) SHALL BE MAINTAINED BY CYCLING THE FAN COIL UNITS AND ASSOCIATED HRU INITIATED BY THE SPACE TEMPERATURE SENSOR WITH THE GREATEST NEED, UNTIL ALL SPACE TEMPERATURE SENSORS ASSOCIATED WITH A PARTICULAR HRU ARE SATISFIED.

3. SUMMER NIGHT SETBACK TEMPERATURE OF 85 DEGREES F (ADJUSTABLE) SHALL BE MAINTAINED BY CYCLING THE FAN COIL UNITS AND ASSOCIATED HRU INITIATED BY THE SPACE TEMPERATURE SENSOR WITH THE GREATEST NEED, UNTIL ALL SPACE TEMPERATURE SENSORS ASSOCIATED WITH A PARTICULAR HP ARE SATISFIED.

REFRIGERANT DETECTION/MITIGATION :

1. EQUIPMENT SHALL HAVE A FACTORY INSTALLED REFRIGERANT DETECTION AND MITIGATION SYSTEM IN ACCORDANCE WITH ASHRAE 15-2022.

2. IF REFRIGERANT LEAK IS DETECTED THROUGH VRF MANUFACTURER'S DETECTION SYSTEM, VRF MANUFACTURER'S REFRIGERANT MITIGATION CONTROLS SHALL OPERATE AND AN ALARM SHALL SEND THROUGH THE BAS.

VARIABLE REFRIGERANT HEAT RECOVERY SYSTEM - INPUT/OUTPUT SUMMARY

INPUT/OUTPUT SUMMARY

VRF SYSTEM	GRAPHIC	INDICATION: STATUS	TEMPERATURE	RELATIVE HUMIDITY	PPM	CFM	STATIC PRESSURE	DIFFERENTIAL PRESSURE	GPM	POSITION	RUN TIME	HERTZ	ALARM: LOW	HIGH	CRITICAL	MAINTENANCE	CONTROL: PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
VARIABLE REFRIG SYSTEM	●	●													●	●	●	●				SYSTEM CONTROL PANEL, BAS, REFRIG. DETECTION AND MITIGATION SYSTEM
FAN COIL UNITS		●													●	●						FCU-X, CS-1, LLS, REFRIG. DETECTION
HEAT RECOVERY UNIT		●													●							HRU, CS-2, REFRIG. DETECTION
SPACE			●										●		●							T-1
CONDENSATE PUMP															●							CONDENSATE PUMP
BRANCH SELECTOR BOXES		●													●							BRANCH SELECTOR BOX
REFRIG. DETECTION AND MITIGATION															●							REFRIG. DETECTION

NOTES:

(1) ALL POINTS INDICATED IN THE I/O POINTS LIST SHALL BE TRENDED AT A MINIMUM OF 15 MINUTE INTERVALS AND REPORTED HOURLY, DAILY, WEEKLY, MONTHLY AND ANNUALLY. ALL TRENDING DATA SHALL BE STORED FOR A MINIMUM OF 5 YEARS.

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUTOMATIC TEMPERATURE CONTROLS

SHEET NUMBER:

M-602

SHEET 78 OF 172

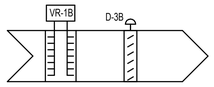
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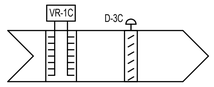
NOTES:

1. DAMPERS D-3 SHALL BE PROVIDED BY THE VOLUME REGULATOR MANUFACTURER.
2. DAMPERS D-1 SHALL BE SUPPLIED BY THE DOAS MANUFACTURER.
3. UNLESS OTHERWISE NOTED, ALL SENSORS/DEVICES INDICATED ON THIS DRAWING OUTSIDE OF DOAS SHALL BE PROVIDED BY ATC CONTRACTOR.
4. UNLESS OTHERWISE NOTED, ALL SENSORS/DEVICES WITHIN DOAS SHALL BE PROVIDED BY DOAS MANUFACTURER.
5. DUCT SMOKE DETECTORS SHALL BE PROVIDED ELECTRICAL CONTRACTOR.
6. SPSS SHALL BE FURNISHED BY DOAS MANUFACTURER AND INSTALLED BY ATC CONTRACTOR.

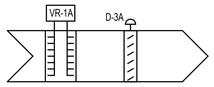
T-1	OUTDOOR AIR TEMPERATURE SENSOR (GLOBAL)
ESS	EMERGENCY SHUTDOWN SWITCH
BAS	BUILDING AUTOMATION SYSTEM
HOA	SYSTEM: HAND-OFF-AUTOMATIC SWITCH. LOCATE AT UNIT.
H-2	OUTDOOR AIR HUMIDITY SENSOR (GLOBAL)
CO2-1	OUTDOOR AIR CARBON DIOXIDE SENSOR (GLOBAL)



TYPICAL CONSTANT VOLUME
EXHAUST AIR VOLUME REGULATOR

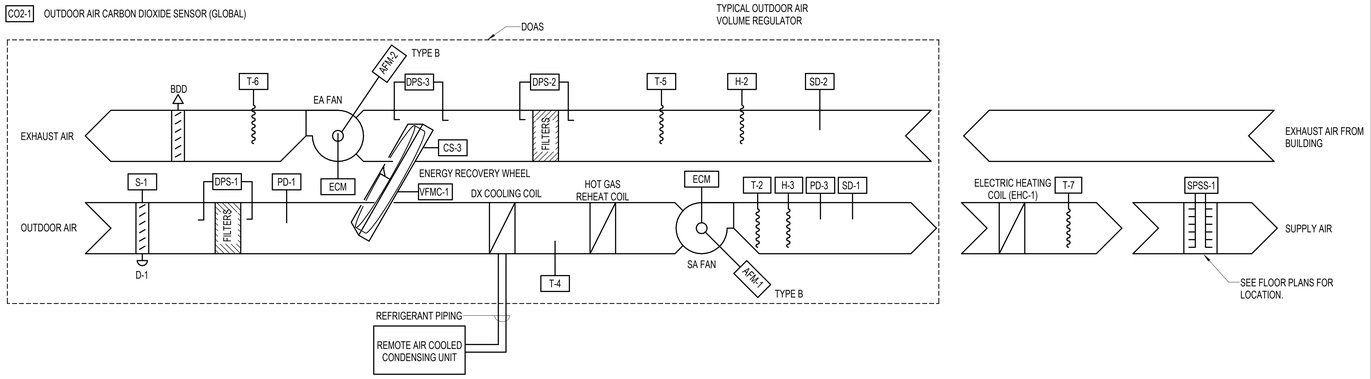


TYPICAL MODULATING RELIEF
AIR VOLUME REGULATOR



TYPICAL OUTDOOR AIR
VOLUME REGULATOR

CO2-2 / H-3 COMBINATION SPACE CARBON DIOXIDE SENSOR / HUMIDITY SENSOR (WHERE INDICATED)



DOAS-1 UNIT-CONTROL DIAGRAM

INPUT/OUTPUT SUMMARY

DOAS UNIT	GRAPHIC	STATUS	TEMPERATURE	RELATIVE HUMIDITY	CFM	STATIC PRESSURE	PPM	POSITION	RUN TIME	HERTZ	LOW	HIGH	CRITICAL	MAINTENANCE	PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	OPEN/CLOSE	REMARKS
	INDICATION										ALARM				CONTROL				
DOAS UNIT	●	●													●				BAS
SUPPLY AIR FAN		●							●	●		●	●						PD-1, ECM
EXHAUST AIR FAN		●							●	●			●						ECM
EXHAUST AIR			●		●														T-6, AFM-2
RETURN AIR			●	●															T-5, H-2
SUPPLY AIR			●	●	●														T-2, T-7, H-3, AFM-1
OUTDOOR AIR			●	●			●												T-1, H-1, CO2-1
ENERGY RECOVERY WHEEL		●				●			●	●		●	●						DPS-3, VFMC-1
COMPRESSORS		●									●	●	●						
ELECTRIC HEATER		●																	
SMOKE DETECTORS													●						SD-1, SD-2
FILTERS						●						●		●					DPS-1, DPS-2
DAMPERS								●											D-1, S-1
LIQUID LEVEL SENSORS													●						
EMERGENCY SHUT-DOWN		●						●											ESS
HEAT PUMP LAT			●																T-4
REFRIGERANT DETECTION SYSTEM		●											●						
STATIC PRESSURE SENSING STATION						●							●						SPSS-1

NOTES:
1. ALL POINTS INDICATED IN THE I/O POINTS LIST SHALL BE TRENDED AT A MINIMUM OF 15 MINUTE INTERVALS AND REPORTED HOURLY, DAILY, WEEKLY, MONTHLY AND ANNUALLY. ALL TRENDING DATA SHALL BE STORED FOR A MINMUM OF 5 YEARS.

INPUT/OUTPUT SUMMARY

VOLUME REGULATORS	GRAPHIC	STATUS	TEMPERATURE	RELATIVE HUMIDITY	PPM	CFM	STATIC PRESSURE	DIFFERENTIAL PRESSURE	GPM	POSITION	RUN TIME	HERTZ	LOW	HIGH	CRITICAL	MAINTENANCE	PROGRAM START/STOP	HAND-OFF-AUTO	MODULATE	MIN/MAX	OPEN/CLOSED	REMARKS
		INDICATION											ALARM				CONTROL					
SYSTEM	●																					BAS
SUPPLY AIR						●													●			VR-1A, VR-1B, VR-1C
DAMPERS										●									●			D-3A, D-3B, D-3C
SPACE				●	●									●								CO2-2 / H-3

NOTES:
1. ALL POINTS INDICATED IN THE I/O POINTS LIST SHALL BE TRENDED AT A MINIMUM OF 15 MINUTE INTERVALS AND REPORTED HOURLY, DAILY, WEEKLY, MONTHLY AND ANNUALLY. ALL TRENDING DATA SHALL BE STORED FOR A MINMUM OF 5 YEARS.

DOAS-1 UNIT-INPUT/OUTPUT SUMMARY

DOAS AIR FLOW SCHEDULES				
	OA FLOW (AFM-1)		EA FLOW (AFM-2)	
DOAS NO	MIN	MAX	MIN	MAX
DOAS-1	2,160	5,045	1,830	4,715

VOLUME REGULATOR AIR FLOW SCHEDULE			
VR NO	SERVICE	MIN	MAX
VR-1	OA	70	200
VR-2	OA	100	230
VR-3	OA	40	215
VR-4	OA	195	195
VR-5	OA	170	325
VR-6	OA	115	185
VR-7	OA	510	510
VR-8	OA	105	275
VR-9	OA	110	110
VR-10	OA	15	65
VR-11	OA	60	400
VR-12	OA	55	335
VR-13	OA	30	255
VR-14	OA	55	240
VR-15	OA	35	230
VR-16	OA	40	250
VR-17	OA	25	135
VR-18	OA	25	75
VR-19	OA	70	255
VR-20	OA	55	280
VR-21	EA	375	375
VR-22	EA	1,455	1,455
VR-23	RLF	0	435
VR-24	RLF	0	2,450
VR-25	OA	75	75
VR-26	OA	55	55
VR-27	OA	115	115
VR-28	OA	35	35

GENERAL:

1. THE DOAS SYSTEM SHALL BE STARTED AND STOPPED THROUGH THE BUILDING AUTOMATION SYSTEM.
2. ALL SAFETIES AND ASSOCIATED CONTROL INTERLOCKS SHALL BE HARDWIRED.
3. PROVIDE A REMOTE EMERGENCY SHUTDOWN SWITCH (ESS) FOR SYSTEM SHUTDOWN. SWITCH SHALL BE INSTALLED AT A LOCATION APPROVED BY THE FIRE INSPECTOR. TYPICALLY INSTALL AT THE BUILDING ENTRANCE ADJACENT TO THE FIRE ALARM ANNUNCIATOR PANEL.
4. PRESSURE SWITCH PD-1 STOPS SYSTEM SHOULD PRESSURE RISE ABOVE 4" WG AND AN ALARM SHALL SOUND THROUGH BAS.
5. COORDINATE ECM CONTROLLER INTERFACE REQUIREMENTS WITH ECM MANUFACTURER.
6. ALL SETPOINTS SHALL BE ADJUSTABLE.
7. EQUIPMENT SHALL HAVE FACTORY INSTALLED REFRIGERANT DETECTION AND MITIGATION SYSTEM IN ACCORDANCE WITH ASHRAE 15-2022.
8. IF REFRIGERANT LEAK IS DETECTED THROUGH DOAS MANUFACTURER'S DETECTION SYSTEM, DOAS MANUFACTURER'S REFRIGERANT MITIGATION CONTROLS SHALL OPERATE AND AN ALARM SHALL SEND THROUGH THE BAS.
9. UPON FAILURE OF SUPPLY FAN, AN ALARM SHALL SEND THROUGH THE BAS.
10. UPON FAILURE OF EXHAUST FAN, AN ALARM SHALL SOUND THROUGH BAS.
11. UPON FAILURE OF ENERGY RECOVERY WHEEL, AN ALARM SHALL SOUND THROUGH BAS.
12. UPON FAILURE OF COMPRESSOR, AN ALARM SHALL SOUND THROUGH BAS.
13. IF HIGH REFRIGERANT PRESSURE IS SENSED BY MANUFACTURER'S PRESSURE TRANSDUCER, COMPRESSORS SHALL STOP AND ALARM SHALL SEND THROUGH THE BAS.
14. IF LOW REFRIGERANT PRESSURE IS SENSED BY MANUFACTURER'S PRESSURE TRANSDUCER, COMPRESSORS SHALL STOP AND ALARM SHALL SEND THROUGH THE BAS.
15. WHEN STATIC PRESSURE AT DPS-1 OR DPS-2 RISES ABOVE 0.5" (ADJUSTABLE), A "CHANGE FILTER" MAINTENANCE ALARM SHALL SOUND THROUGH BAS.
16. IF A HIGH WATER LEVEL IS SENSED BY THE LIQUID LEVEL SENSOR (LLS) INSTALLED IN THE DOAS DRAIN PAN, THE DOAS SHALL SHUTDOWN AND AN ALARM SHALL BE SENT THROUGH THE BAS.
17. IF SUPPLY AIR TEMPERATURE AT T-2 RISES ABOVE 80 DEGREES F OR FALLS BELOW 65 DEGREES F, AN ALARM SHALL SOUND THROUGH BAS.

DAMPERS:

1. DAMPER D-1 SHALL BE CONTROLLED BY DOAS UNIT MANUFACTURER'S CONTROLS.

STARTING AND STOPPING:

1. THE DOAS SHALL BE ENERGIZED TO OPERATE THROUGH THE BAS. ATC CONTRACTOR SHALL INTERFACE WITH DOAS'S PACKAGED CONTROLS TO ALLOW BAS TO COMMAND OCCUPIED/UNOCCUPIED MODES.
2. WHEN SYSTEM IS COMMANDED TO OPERATE, D-1 OPENS, RESPECTIVE END SWITCH S-1 SHALL START THE SA AND EA FANS. LOCKOUT RELAY ACTUATED BY THE FAN STARTER PREVENTS S-1 FROM STOPPING SA AND EA FANS. DAMPER D-3 IS OPEN TO MINIMUM POSITION FOR ALL OPERATING VOLUME REGULATORS. SEE BELOW FOR AIRFLOW SCHEDULE FOR VR MIN/MAX AIRFLOW SETTINGS.
3. WHENEVER SA FAN IS STOPPED, EA FAN STOPS, ENERGY RECOVERY WHEEL STOPS, D-1 CLOSES.

OCCUPIED (700 TO 2400 ADJUSTABLE):

1. SA FAN AND EA FAN ARE ON. D-1 IS OPEN.
2. UNIT SHALL OPERATE THROUGH DOAS UNIT MANUFACTURER'S CONTROLS TO MAINTAIN LEAVING AIR TEMPERATURE SETPOINT AT T-2.

COOLING MODE:

1. DOAS UNIT'S PACKAGED CONTROLS SHALL MAINTAIN LEAVING AIR TEMPERATURE AT T-2 OF 75 DEGREES F.

HEATING MODE:

1. DOAS UNIT'S PACKAGED CONTROLS SHALL MAINTAIN LEAVING AIR TEMPERATURE AT T-2 OF 70 DEGREES F.
2. IF DOAS UNIT'S PACKAGED CONTROLS CANNOT MAINTAIN 70 DEGREES F AT T-2, ELECTRIC HEATING COIL EHC-1 SHALL MODULATE THROUGH IT'S SCR CONTROLLER TO MAINTAIN 70 DEGREES F AT T-7.

ECONOMIZER MODE:

1. ECONOMIZER MODE SHALL BE THROUGH DOAS UNIT MANUFACTURER'S PACKAGED CONTROLS.
2. ECONOMIZER CONTROL SHALL BE BY ENTHALPY CONTROL. ECONOMIZER CONTROL SHALL BE ENABLED WHEN THERE IS A DEMAND FOR COOLING, IF THE OUTDOOR AIR ENTHALPY IS BELOW 22 BTU/LB (ADJUSTABLE) AND THE OUTDOOR AIR TEMPERATURE IS BELOW 55 DEGREES F (ADJUSTABLE). WHEN ECONOMIZER MODE IS ENABLED, ENERGY RECOVERY WHEEL SHALL BE AT MINIMUM SPEED.

DEHUMIDIFICATION MODE:

1. DOAS UNIT MANUFACTURER'S PACKAGED CONTROLS SHALL MAINTAIN RELATIVE HUMIDITY AT H-3 OF 50% WHEN IN COOLING MODE.

ENERGY RECOVERY WHEEL:

1. ENERGY RECOVERY WHEEL SHALL BE CONTROLLED THROUGH DOAS UNIT MANUFACTURER'S PACKAGED CONTROLS: WHEN OUTDOOR TEMPERATURE AT T-1 IS 3 DEGREES F OR MORE ABOVE OR BELOW THE RETURN AIR TEMPERATURE AT T-5, WHEEL SHALL BE ON. WHEN THE TEMPERATURE AT T-6 FALLS BELOW 25 DEGREES F, VFMC-3 SHALL MODULATE THE WHEEL DOWN TO 10 HZ TO ALLOW FOR WHEEL DEFROSTING.

SUPPLY FAN CONTROL:

1. SUPPLY FAN CONTROL SHALL BE THROUGH MANUFACTURER'S PACKAGED CONTROLS.
2. ANY ONE OF STATIC PRESSURE SENSING STATION, SPSS-1, WITH THE GREATEST NEED SHALL MODULATE THE SUPPLY AIR FAN SPEED THROUGH THE ASSOCIATED VARIABLE FREQUENCY MOTOR CONTROLLER, VFMC-1 TO MAINTAIN 0.75 IN WG.
3. THE BAS CONTROLS SHALL POLL THE POSITION OF ALL D-3 DAMPERS AND RESET SPSS SETPOINT UNTIL ONE D-3 DAMPER IS OPEN TO 90 PERCENT OF FULL AIR FLOW.

EXHAUST FAN CONTROL:

1. EXHAUST FAN CONTROL SHALL BE THROUGH MANUFACTURER'S PACKAGED CONTROLS.
2. AFM-2 SHALL MODULATE THE EXHAUST FAN TO MAINTAIN AN OA/EA AIRFLOW DIFFERENTIAL OF 330 CFM.

SMOKE DETECTORS:

1. WHEN SMOKE IS SENSED BY EITHER SMOKE DETECTOR SD-1 OR SD-2, SYSTEM STOPS AND DAMPER D-1, D-2, AND D-4 CLOSE. DOAS SHALL RETURN TO NORMAL OPERATION WHEN SD-1 AND SD-2 ARE MANUALLY RESET.

VOLUME REGULATOR:

1. OA VOLUME REGULATOR DAMPERS D-3A SHALL BE AT MINIMUM POSITION. IF THE CARBON DIOXIDE DIFFERENTIAL BETWEEN ANY SPACE SENSOR CO2-2 AND THE OUTDOOR AIR SENSOR CO2-1 EXCEEDS 700 PPM, THE ASSOCIATED OA VOLUME REGULATOR DAMPER D-3A MODULATES OPEN THROUGH VOLUME REGULATOR VR-1A TO MAXIMUM AIRFLOW UNTIL DIFFERENTIAL FALLS BELOW 500 PPM.
2. CONSTANT VOLUME EA VOLUME REGULATOR DAMPERS D-3B SHALL MODULATE THROUGH VOLUME REGULATOR VR-1B TO MAINTAIN CONSTANT AIRFLOW.
3. MODULATING RELIEF AIR VOLUME REGULAR DAMPERS D-3C SHALL MODULATE THROUGH VOLUME REGULATOR VR-1C TO MAINTAIN AIRFLOW AS FOLLOWS:

   VR-23 = (SUM OF VR-1 THROUGH VR-4) MINUS (VR-21 + 30) CFM
   VR-24 = (SUM OF VR-5 THROUGH VR-20 AND VR-25 THROUGH VR-28) MINUS (VR-22 + 300) CFM

4. IF SPACE C02 LEVELS AS SENSED BY C02-2 RISE ABOVE 1,400 PPM (ADJUSTABLE), AN ALARM SHALL SOUND THROUGH BAS.

DOAS-1 UNIT-SEQUENCE OF OPERATION

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
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ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUTOMATIC TEMPERATURE CONTROLS

SHEET NUMBER:

M-603

SHEET 79 OF 172

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GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
2. UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
3. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
4. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
5. AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.
6. AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.
7. DUCT AND PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER. CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

DEDICATED OUTDOOR AIR SYSTEMS

UNIT NO	LOCATION	ECM FAN DATA															FILTERS (NOTE 1)		COOLING CAPACITY (NOTE 2, 3)						HOT GAS REHEAT (NOTE 2, 3)			HEATING (NOTE 3)	ENERGY RECOVERY WHEEL (NOTE 4)	BASIS OF DESIGN	NOTES
		SUPPLY								EXHAUST											EAT		LAT								
		CFM	ESP	TSP (NOTE 6)	BHP	HP	MCA	MOCP	V/PH/HZ	CFM	ESP	TSP (NOTE 7)	BHP	HP	MCA	MOCP	V/PH/HZ	PRE	FINAL	TOTAL MBH	SENS MBH	DB	WB	DB	WB	TOTAL MBH	EAT DB	LAT DB		DESIGNATION		
DOAS-1	117 MECHANICAL	5,045	2.50	6.0	6.7	7.7	11.6	20	460/3/60	4,715	3.0	4.95	5.7	6.5	9.0	15.0	460/3/60	MERV-13 (OA), MERV-8 (EA)	MERV-13	297.9	165.3	82.1	70.6	52.2	51.9	98.4	52.2	70.0	EHC-1	ERV-1	DAIKIN VISION	

NOTES FOR AIR HANDLING UNITS WITH ENERGY RECOVERY WHEEL:

1. PROVIDE LABEL ON FILTER ACCESS DOOR INDICATING FILTER SIZE. CLEAN AND DIRTY (CHANGE OUT) FILTER LOADING.
2. COIL SIZE IS DETERMINED BY AHU SIZE.
3. TOTAL COOLING AND HEATING CAPACITY INCLUDES ENERGY RECOVERY DEVICE.
4. PROVIDE HEAT RECOVERY WITH INTEGRAL ENERGY WHEEL. SEE ENERGY RECOVERY WHEEL SCHEDULE FOR PERFORMANCE DATA.
5. ELEVATION 700 FEET ABOVE SEA LEVEL.
6. INCLUDES 1.20" WG FOR FILTERS, 1.10" WG FOR ERV-1, 0.90" FOR COOLING COIL, 0.15" WG FOR HOT GAS REHEAT COIL, AND 0.15" WG FOR PLENUM.
7. INCLUDES 0.60" WG FOR FILTERS, 1.25" WG FOR ERV-1, AND 0.10" WG FOR RETURN FAN SECTION.

ENERGY RECOVERY WHEEL

UNIT NO	SERVICE	SUMMER								WINTER								SUPPLY		EXHAUST			NOTES
		SUPPLY				EXHAUST				SUPPLY				EXHAUST				APD	CFM	APD	CFM	V/PH/HZ	
		EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB	EAT DB	EAT WB	LAT DB	LAT WB						
ERV-1	DOAS-1	95.0	78.0	81.7	70.3	75.0	62.5	-	-	0.0	-1.0	45.2	36.3	70.0	53.0	-	-	1.10	5,045	1.25	4,715	115/1/60	

ELECTRIC HEATING COILS

COIL NO.	SIZE WxL	SERVICE	AIR FLOW					KW	CONTROL	V/PH/HZ	BASIS OF DESIGN	NOTES
			CFM	MIN FV	APD	EAT DB	LAT DB					
EHC-1	22x20	DOAS-1 OA	5,045	630	0.10	43.8	70.0	45	SCR	460/3/60	INDEECO MODEL QUA	

UNIT HEATERS - ELECTRIC

UNIT NO	LOCATION	SERVICE	APPROXIMATE SIZE (in.)			CFM	EAT	FAN HP	ELECTRICAL			BASIS OF DESIGN	NOTES
			W	H	D				KW	V	PH		
UH-1	104 SPRINKLER	FREEZE PROTECTION	15	18	7	400	65	1/125	3.3	208	1	TRANE MODEL UHEC	
UH-2	117 MECHANICAL	FREEZE PROTECTION	15	18	7	400	65	1/125	5.0	208	1	TRANE MODEL UHEC	
UH-3	163 EXISTING VESTIBULE	VESTIBULE	18	23	6	250	60	1/125	3.0	208	1	TRANE MODEL UHWA	
UH-4	119 EXISTING VESTIBULE	VESTIBULE	18	23	6	250	60	1/125	3.0	208	1	TRANE MODEL UHWA	
UH-5	CLERESTORY	FREEZE PROTECTION	15	18	7	400	65	1/125	3.3	208	1	TRANE MODEL UHEC	
UH-6	CLERESTORY	FREEZE PROTECTION	15	18	7	400	65	1/125	3.3	208	1	TRANE MODEL UHEC	
UH-7	CLERESTORY	FREEZE PROTECTION	15	18	7	400	65	1/125	3.3	208	1	TRANE MODEL UHEC	
UH-8	CLERESTORY	FREEZE PROTECTION	15	18	7	400	65	1/125	3.3	208	1	TRANE MODEL UHEC	

FANS

UNIT NO	TYPE	LOCATION	SERVICE	CFM	CLASS	DRIVE TYPE	WHEEL DIA	ESP	MOTOR			ELECTRICAL		BASIS OF DESIGN	NOTES
									HP	BHP	RPM	V	PH		
EF-1	C	117 MECHANICAL	BRANCH SELECTOR EXHAUST	100	I	BELT	7	0.7	1/4	0.2	1,725	120	1	GREENHECK MODEL SQ-97	1
EF-2	C	146 FLEX CLASSROOM	BRANCH SELECTOR EXHAUST	105	I	BELT	7	0.6	1/4	0.2	1,725	120	1	GREENHECK MODEL SQ-97	1

DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNITS

EVAPORATOR					CONDENSER						ELECTRICAL		CONDENSER EAT	MAXIMUM ALLOWABLE REFRIGERANT CHARGE (LBS)	BASIS OF DESIGN	NOTES
UNIT NO	LOCATION	EAT (DB)	EAT (WB)	MBH	UNIT NO.	LOCATION	MBH	OA (SUMMER)	OA (WINTER)	NO. OF COND FANS	VOLTAGE	PHASE				
ACU-1	117A ELEC	80	67	24	ACCU-1	ROOF	24	95	0	1	208	1	95	5.3	DAIKIN MODEL FTK	
ACU-2	106 A.V. / I.T.	80	67	24	ACCU-2	ROOF	24	95	0	1	208	1	95	9.6	DAIKIN MODEL FTK	
ACU-3	122 ELEC	80	67	24	ACCU-3	ROOF	24	95	0	1	208	1	95	4.0	DAIKIN MODEL FTK	
ACU-4	117 MECHANICAL	80	67	24	ACCU-4	ROOF	24	95	0	1	208	1	95	25.3	DAIKIN MODEL FTK	

NOTES FOR DUCTLESS SPLIT SYSTEM AIR CONDITIONING UNITS:

1. R-32 OR R-454B REFRIGERANT
2. REFRIGERANT PIPE SIZES, REFRIGERANT CHARGE, ETC., SHALL BE PROVIDED BY THE MANUFACTURER
3. CAPACITY INDICATED IS MINIMUM REQUIRED CAPACITY AFTER CORRECTIONS FOR DESIGN CONDITIONS, REFRIGERANT PIPE SIZES AND LENGTHS, AND CORRECTIONS HAVE BEEN TAKEN INTO ACCOUNT

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND

Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M-701

SHEET 80 OF 172

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GENERAL NOTES: (APPLICABLE TO ALL MECHANICAL SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
2. UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
3. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
4. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
5. AIR PRESSURE VALUES ARE LISTED IN INCHES OF WATER COLUMN.
6. AIR VELOCITY VALUES ARE LISTED IN FEET PER MINUTE.
7. DUCT AND PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER. CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

VARIABLE REFRIGERANT HEAT RECOVERY UNITS (NOTES 1, 2, 3)

UNIT NO	LOCATION	SERVICE	CAPACITY				ELECTRICAL		MIN EER	MIN COP	BASIS OF DESIGN	NOTES
			COOLING		HEATING		MOCP	V/PH				
			TOTAL MBH	CONDENSER EAT	TOTAL MBH	CONDENSER EAT						
HRU-1	MECH ROOM EXT	FCU 1.1-1.20	241.2	95.0	134.1	0.0	25.0+30.0	460 / 3	11.1	2.25	DAIKIN MODEL REYA	
HRU-2	149 FLEX CLASSROOM EXT	FCU 2.1-2.16	292.6	95.0	121.5	0.0	30.0+30.0	460 / 3	11.0	2.10	DAIKIN MODEL REYA	

NOTES FOR VARIABLE REFRIGERANT HEAT RECOVERY UNITS:

1. R-32 OR R-454B REFRIGERANT
2. REFRIGERANT PIPE SIZES, REFRIGERANT CHARGE, ETC., SHALL BE PROVIDED BY THE MANUFACTURER
3. CAPACITY INDICATED IS MINIMUM REQUIRED CAPACITY AFTER CORRECTIONS FOR DESIGN CONDITIONS, REFRIGERANT PIPE SIZES AND LENGTHS, AND CORRECTIONS HAVE BEEN TAKEN INTO ACCOUNT

VARIABLE REFRIGERANT FAN COIL UNITS (NOTE 2)

UNIT NO	LOCATION	SERVICE	ASSOCIATED OUTDOOR UNIT (NOTE 1)	SUPPLY FAN		HP (WATTS)	OA CFM	RA CFM	COOLING COIL				HEATING COIL		ELECTRICAL			MAX ALLOWABLE REFRIGERANT CHARGE (LBS)	BASIS OF DESIGN	NOTES
				CFM	ESP				TOTAL COOLING MBH	SENS COOLING MBH	EAT		TOTAL HEATING MBH	EAT DB	MCA	MOCP	V/PH			
											DB	WB								
FCU-1.1	100 VESTIBULE	100 VESTIBULE	HRU-1	1,110	0.8	0.52 (390)	-	1,110	25.8	23.6	75.0	63.0	31.5	70.0	2.8	15	208-230 / 1	3.4	DAIKIN MODEL FXMA	4
FCU-1.2	102 LOBBY	102 LOBBY	HRU-1	950	0.6	0.52 (390)	140	950	18.4	17.7	75.0	63.0	13.1	70.0	2.5	15	208-230 / 1	2.5	DAIKIN MODEL FXSA	4
FCU-1.3	108 PHARM TECH LAB	108 PHARM TECH LAB	HRU-1	810	0.6	0.22 (165)	185	810	19.2	17.4	75.0	63.0	10.5	70.0	1.8	15	208-230 / 1	2.3	DAIKIN MODEL FXSA	4
FCU-1.4	111 NURSING LAB	111 NURSING LAB	HRU-1	1,110	0.6	0.52 (390)	325	1,110	23.7	21.3	75.0	63.0	15.0	70.0	2.8	15	208-230 / 1	3.4	DAIKIN MODEL FXSA	4
FCU-1.5	114 COSMETOLOGY LAB	114 COSMETOLOGY LAB (SOUTH)	HRU-1	810	0.6	0.22 (165)	230	810	19.6	16.2	75.0	63.0	13.5	70.0	1.8	15	208-230 / 1	2.9	DAIKIN MODEL FXSA	4
FCU-1.6	114 COSMETOLOGY LAB	114 COSMETOLOGY LAB (NORTH)	HRU-1	740	0.6	0.22 (165)	200	740	16.8	13.6	75.0	63.0	9.3	70.0	1.8	15	208-230 / 1	2.1	DAIKIN MODEL FXSA	4
FCU-1.8	177 CORRIDOR	177 CORRIDOR	HRU-1	335	0.6	0.08 (60)	75	260	10.5	10.6	75.0	63.0	8.4	70.0	0.8	15	208-230 / 1	1.3	DAIKIN MODEL FXSA	3
FCU-1.9	125 OFFICE	123,124,125 OFFICES	HRU-1	320	0.6	0.08 (60)	85	235	8.0	6.1	75.0	63.0	1.5	70.0	0.8	15	208-230 / 1	1.1	DAIKIN MODEL FXSA	3
FCU-1.10	120 CLASSROOM	120 CLASSROOM	HRU-1	510	0.6	0.22 (165)	215	510	14.5	10.5	75.0	63.0	2.4	70.0	1.6	15	208-230 / 1	1.5	DAIKIN MODEL FXSA	4
FCU-1.11	132 OFFICE	131, 132 OFFICES	HRU-1	335	0.6	0.08 (60)	55	280	8.0	6.7	75.0	63.0	2.8	70.0	0.8	15	208-230 / 1	1.4	DAIKIN MODEL FXSA	3
FCU-1.12	126 OFFICE	126,127 OFFICES	HRU-1	230	0.6	0.08 (60)	55	175	5.3	4.0	75.0	63.0	1.0	70.0	0.8	15	208-230 / 1	1.5	DAIKIN MODEL FXSA	3
FCU-1.13	180 HALL	140, 141 WORKSTATIONS, 180 HALL	HRU-1	335	0.6	0.08 (60)	55	280	7.4	7.0	75.0	63.0	3.8	70.0	0.8	15	208-230 / 1	1.8	DAIKIN MODEL FXSA	3
FCU-1.14	129 OFFICE	128,129 OFFICES	HRU-1	320	0.6	0.08 (60)	55	265	7.3	6.0	75.0	63.0	2.4	70.0	0.8	15	208-230 / 1	1.2	DAIKIN MODEL FXSA	3
FCU-1.15	130 OFFICE	130 OFFICE, 142 ADMIN	HRU-1	230	0.6	0.08 (60)	55	175	4.4	3.5	75.0	63.0	1.0	70.0	0.8	15	208-230 / 1	1.2	DAIKIN MODEL FXSA	3
FCU-1.16	179 HALL	176, 179 HALLS	HRU-1	265	0.6	0.08 (60)	65	200	6.1	5.6	75.0	63.0	2.3	70.0	0.8	15	208-230 / 1	0.9	DAIKIN MODEL FXSA	3
FCU-1.17	138 OFFICE	138, 139 OFFICE	HRU-1	510	0.6	0.22 (165)	55	455	11.8	10.5	75.0	63.0	5.8	70.0	1.6	15	208-230 / 1	2.2	DAIKIN MODEL FXSA	3
FCU-1.18	137 OFFICE	136, 137 OFFICE	HRU-1	230	0.6	0.08 (60)	55	175	5.7	4.4	75.0	63.0	3.2	70.0	0.8	15	208-230 / 1	1.7	DAIKIN MODEL FXSA	3
FCU-1.19	135 OFFICE	134, 135 OFFICES	HRU-1	440	0.6	0.15 (115)	55	385	10.2	8.9	75.0	63.0	5.0	70.0	1.4	15	208-230 / 1	1.6	DAIKIN MODEL FXSA	3
FCU-1.20	133 OFFICE	133 OFFICE	HRU-1	230	0.6	0.08 (60)	30	200	2.9	2.2	75.0	63.0	1.7	70.0	0.8	15	208-230 / 1	1.5	DAIKIN MODEL FXSA	3
FCU-2.1	175 LOBBY	175 LOBBY	HRU-2	230	0.6	0.08 (60)	75	230	5.0	4.6	75.0	63.0	3.3	70.0	0.8	15	208-230 / 1	1.2	DAIKIN MODEL FXSA	3
FCU-2.2	144 KITCHEN CATER	144 KITCHEN CATER, 145 KITCHEN LAB	HRU-2	1,305	0.6	0.52 (390)	275	1,305	33.5	25.9	75.0	63.0	12.0	70.0	2.8	15	208-230 / 1	3.0	DAIKIN MODEL FXSA	4
FCU-2.3	146 FLEX CLASSROOM	146 FLEX CLASSROOM	HRU-2	615	0.6	0.22 (165)	255	615	17.9	13.4	75.0	63.0	6.2	70.0	1.8	15	208-230 / 1	3.2	DAIKIN MODEL FXSA	4
FCU-2.4	147 FLEX CLASSROOM	147 FLEX CLASSROOM	HRU-2	810	0.6	0.22 (165)	240	810	21.8	17.3	75.0	63.0	8.1	70.0	1.8	15	208-230 / 1	3.0	DAIKIN MODEL FXSA	4
FCU-2.5	148 FLEX CLASSROOM	148 FLEX CLASSROOM	HRU-2	740	0.6	0.22 (165)	230	740	18.2	13.7	75.0	63.0	6.0	70.0	1.8	15	208-230 / 1	1.8	DAIKIN MODEL FXSA	4
FCU-2.6	149 FLEX CLASSROOM	149 FLEX CLASSROOM	HRU-2	810	0.6	0.22 (165)	250	810	21.6	16.9	75.0	63.0	10.2	70.0	1.8	15	208-230 / 1	3.0	DAIKIN MODEL FXSA	4
FCU-2.7	156 SEMINAR	156 SEMINAR	HRU-2	440	0.6	0.15 (115)	135	440	11.0	8.4	75.0	63.0	3.9	70.0	1.4	15	208-230 / 1	1.6	DAIKIN MODEL FXSA	4
FCU-2.8	166 COMMUNITY BASED TRANSITION	166 COMMUNITY BASED TRANSITION	HRU-2	1,305	0.6	0.52 (390)	255	1,305	32.7	26.2	75.0	63.0	16.4	70.0	2.8	15	208-230 / 1	3.0	DAIKIN MODEL FXSA	4
FCU-2.9	172 CORRIDOR	172 CORRIDOR	HRU-2	740	0.6	0.22 (165)	115	740	17.2	17.2	75.0	63.0	12.3	70.0	1.8	15	208-230 / 1	2.2	DAIKIN MODEL FXSA	4
FCU-2.10	157 SEMINAR	157 SEMINAR	HRU-2	265	0.6	0.08 (60)	75	265	7.4	5.7	75.0	63.0	1.1	70.0	0.8	15	208-230 / 1	1.2	DAIKIN MODEL FXSA	3
FCU-2.11	161 SEMINAR	161 SEMINAR	HRU-2	265	0.6	0.08 (60)	65	200	7.2	5.5	75.0	63.0	0.9	70.0	0.8	15	208-230 / 1	1.2	DAIKIN MODEL FXSA	3
FCU-2.12	162 TABLE/CHAIR STORAGE	162 TABLE/CHAIR STORAGE	HRU-2	230	0.6	0.08 (60)	35	195	3.0	2.8	75.0	63.0	1.8	70.0	0.8	15	208-230 / 1	1.4	DAIKIN MODEL FXSA	3
FCU-2.13	173 CORRIDOR	173, 174 CORRIDOR	HRU-2	230	0.6	0.08 (60)	35	230	5.0	4.6	75.0	63.0	3.7	70.0	0.8	15	208-230 / 1	1.1	DAIKIN MODEL FXSA	4
FCU-2.14	170 FLEX CLASSROOM	170 FLEX CLASSROOM	HRU-2	810	0.6	0.22 (165)	280	810	24.3	18.9	75.0	63.0	9.6	70.0	1.8	15	208-230 / 1	2.6	DAIKIN MODEL FXSA	4
FCU-2.15	171 FLEX CLASSROOM	171 FLEX CLASSROOM	HRU-2	1,130	0.6	0.52 (390)	335	1,130	28.3	21.4	75.0	63.0	12.6	70.0	2.5	15	208-230 / 1	2.9	DAIKIN MODEL FXSA	4
FCU-2.16	169 FLEX CLASSROOM	169 FLEX CLASSROOM	HRU-2	1,130	0.6	0.52 (390)	400	1,130	30.3	22.6	75.0	63.0	10.6	70.0	2.5	15	208-230 / 1	3.9	DAIKIN MODEL FXSA	4
FCU-2.17	158 WOMEN	158 WOMEN, 159 MEN	HRU-2	230	0.6	0.08 (60)	-	230	3.9	3.9	75.0	63.0	2.6	70.0	0.8	15	208-230 / 1	1.1	DAIKIN MODEL FXSA	4

NOTES FOR VARIABLE REFRIGERANT FAN COIL UNITS:

1. UNIT SHALL BE INTERLOCKED/CONNECTED TO ASSOCIATED OUTDOOR UNIT.
2. R-32 OR R-454B REFRIGERANT
3. OUTDOOR AIR PROVIDED TO SPACE THROUGH DUCTED SUPPLY TO RETURN PLENUM.
4. OUTDOOR AIR IS PROVIDED TO SPACE THROUGH DUCTED SUPPLY GRILL.

VARIABLE REFRIGERANT BRANCH SELECTOR BOXES

UNIT NO	LOCATION	SERVICE	NO. OF PORTS	EXHAUST DUCT CONNECTION SIZE		ELECTRICAL		BASIS OF DESIGN	NOTES
				INLET	OUTLET	V	PH		
BS-1.1	117 CORRIDOR	FCU-1.1, FCU-1.2, FCU-1.3, FCU-1.9	4	-	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-1.2	120 CLASSROOM	FCU-1.4, FCU-1.5, FCU-1.8	4	-	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-1.3	120 CLASSROOM	FCU-1.6, FCU-1.10, FCU-1.11, FCU-1.20	4	6	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-1.4	179 HALL	FCU-1.12, FCU-1.13, FCU-1.14, FCU-1.15, FCU-1.16, FCU-1.17, FCU-1.18, FCU-1.19	8	6	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-2.1	172 CORRIDOR	FCU-2.1, FCU-2.2, FCU-2.11, FCU-2.12	4	-	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-2.2	172 CORRIDOR	FCU-2.3, FCU-2.4, FCU-2.5, FCU-2.6, FCU-2.7, FCU-2.9	6	-	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4
BS-2.3	173 CORRIDOR	FCU-2.8, FCU-2.10, FCU-2.13, FCU-2.14, FCU-2.15, FCU-2.16	6	-	6	208	1	DAIKIN MODEL BSA	1, 2, 3, 4

NOTES FOR VARIABLE REFRIGERANT BRANCH SELECTOR BOXES:

1. CONTRACTOR SHALL NOTIFY ENGINEER OF EXACT LOCATION, PLACEMENT, AND MOUNTING HEIGHT OF BRANCH BOX FOR FINAL ASHRAE 15-2022 COMPLIANCE CALCULATIONS.
2. PROVIDE BRANCH SELECTOR BOX WITH VENTILATED ENCLOSURE. INTERLOCK REFRIGERANT LEAK ALARM WITH CONNECTED EXHAUST FAN.
3. UNUSED PORTS SHALL BE CAPPED.
4. PROVIDE VENTILATED ENCLOSURE.

VOLUME REGULATORS

UNIT NO	LOCATION	SERVICE	MAX CFM	MIN CFM	APD	TERMINAL DAMPER SIZE	TERMINAL DUCT SIZE	BASIS OF DESIGN	NOTES
VR-1	178 CORRIDOR	OUTDOOR AIR	200	70	0.3	5ø	6ø	TITUS DECV	
VR-2	178 CORRIDOR	OUTDOOR AIR	230	100	0.3	5ø	6ø	TITUS DECV	
VR-3	120 CLASSROOM	OUTDOOR AIR	215	40	0.3	5ø	8x6	TITUS DECV	
VR-4	134 OFFICE	OUTDOOR AIR	195	195	0.3	4ø	6x8	TITUS DECV	
VR-5	177 CORRIDOR	OUTDOOR AIR	325	170	0.3	6ø	6ø	TITUS DECV	
VR-6	110 STORAGE	OUTDOOR AIR	185	115	0.3	4ø	6x6	TITUS DECV	
VR-7	181 HALL	OUTDOOR AIR	510	510	0.3	7ø	7ø	TITUS DECV	
VR-8	144 KITCHEN CATER	OUTDOOR AIR	275	105	0.3	5ø	8ø	TITUS DECV	
VR-9	172 CORRIDOR	OUTDOOR AIR	110	110	0.3	4ø	8x6	TITUS DECV	
VR-10	172 CORRIDOR	OUTDOOR AIR	65	15	0.3	4ø	6ø	TITUS DECV	
VR-11	169 FLEX CLASSROOM	OUTDOOR AIR	400	60	0.3	6ø	6ø	TITUS DECV	
VR-12	169 FLEX CLASSROOM	OUTDOOR AIR	335	55	0.3	6ø	8x8	TITUS DECV	
VR-13	147 FLEX CLASSROOM	OUTDOOR AIR	255	30	0.3	5ø	6ø	TITUS DECV	
VR-14	147 FLEX CLASSROOM	OUTDOOR AIR	240	55	0.3	5ø	8ø	TITUS DECV	
VR-15	148 FLEX CLASSROOM	OUTDOOR AIR	230	35	0.3	5ø	8ø	TITUS DECV	
VR-16	172 CORRIDOR	OUTDOOR AIR	250	40	0.3	5ø	8ø	TITUS DECV	
VR-17	172 CORRIDOR	OUTDOOR AIR	135	25	0.3	4ø	6x6	TITUS DECV	
VR-18	172 CORRIDOR	OUTDOOR AIR	75	25	0.3	4ø	6ø	TITUS DECV	
VR-19	173 CORRIDOR	OUTDOOR AIR	255	70	0.3	5ø	8ø	TITUS DECV	
VR-20	173 CORRIDOR	OUTDOOR AIR	280	55	0.3	5ø	8ø	TITUS DECV	
VR-21	178 CORRIDOR	EXHAUST AIR	375	375	0.3	6ø	8x10	TITUS DECV	
VR-22	172 CORRIDOR	EXHAUST AIR	1,455	1,455	0.3	12ø	14x12	TITUS DECV	
VR-23	180 HALL	RELEIF AIR	435	0	0.3	6ø	6ø	TITUS DECV	
VR-24	180 HALL	RELEIF AIR	2,450	0	0.3	14ø	14ø	TITUS DECV	
VR-25	177 CORRIDOR	OUTDOOR AIR	75	75	0.3	4ø	6ø	TITUS DECV	
VR-26	178 CORRIDOR	OUTDOOR AIR	55	55	0.3	4ø	4ø	TITUS DECV	
VR-27	172 CORRIDOR	OUTDOOR AIR	115	115	0.3	4ø	6ø	TITUS DECV	
VR-28	173 CORRIDOR	OUTDOOR AIR	35	35	0.3	4ø	6ø	TITUS DECV	

NOTES FOR VOLUME REGULATORS:

1. BRANCH DUCT SIZE IS RUNOUT SIZE AND NOT NECESSARILY THE BOX INLET SIZE. PROVIDE 3 DUCT DIAMETERS OF STRAIGHT DUCT ON BOX INLET WITH THE LAST 1 FT OF DUCT THE SAME SIZE AS BOX INLET. PROVIDE INSULATED TRANSITION IF REQUIRED FOR CONNECTION
2. CONTRACTOR RESPONSIBLE FOR COORDINATING RIGHT AND LEFT HAND ORIENTATION

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

MECHANICAL SCHEDULES

SHEET NUMBER:

M-702

SHEET 81 OF 172

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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

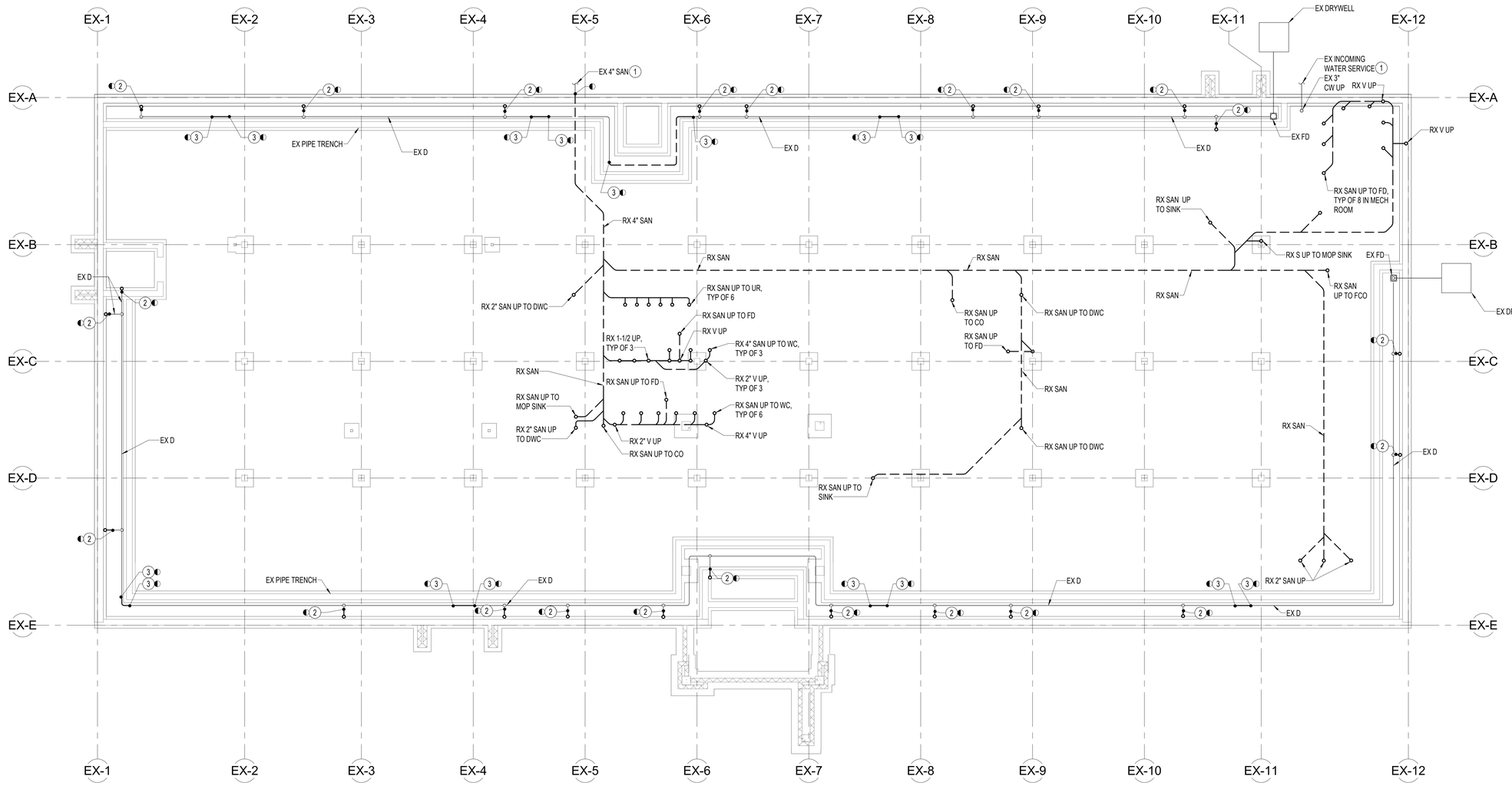
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) SEE CIVIL DRAWINGS FOR CONTINUATION.

(2) REMOVE D UP TO UNIT VENTILATOR/FAN COIL UNIT. CAP PIPING 6" BELOW FLOOR SLAB IN PIPE TRENCH.

(3) REMOVE EXISTING CONDENSATE PIPING IN TRENCH WHERE TRENCH WILL BE INFILLED. REFER TO ARCHITECTURAL AND STRUCTURAL DRAWINGS FOR MORE INFORMATION.



1 PD-100 FOUNDATION - PLUMBING - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

11/5/2026 4:38:12 PM Autodesk Docs://25909 Allegany College of MD /CAA WTDC Renovation/HVAL25-A009 - Mechanical Central (2025).rvt

PROJECT TEAM

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

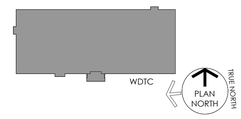
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FOUNDATION - PLUMBING - DEMOLITION PLAN

SHEET NUMBER:

PD-100

SHEET 82 OF 172

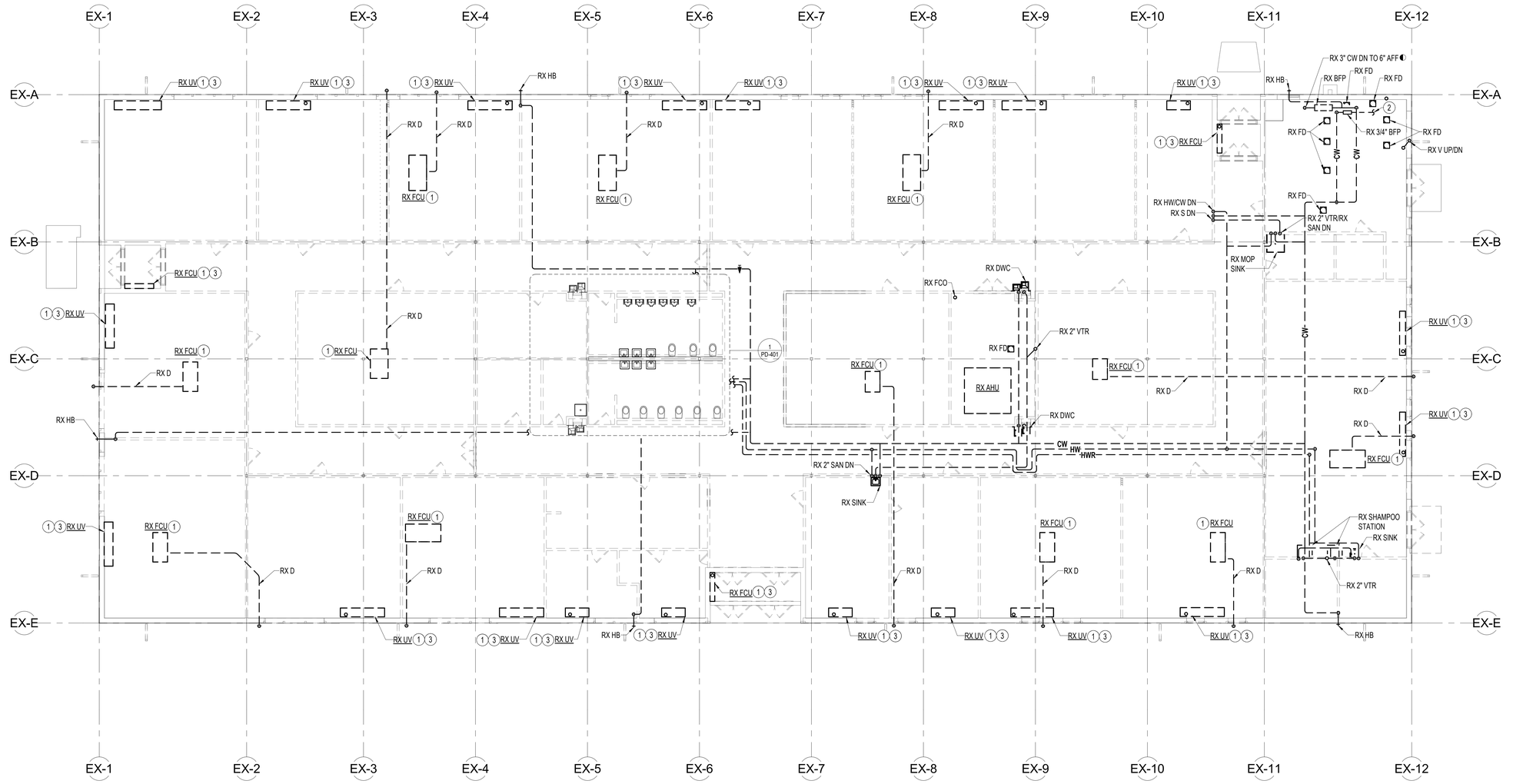
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. SEE MECHANICAL DRAWINGS FOR REMOVAL OF EQUIPMENT.
2. RX 3/4" CW MAKEUP. SEE MECHANICAL PIPING DRAWINGS FOR MORE INFORMATION.
3. RX D DN. CAP BELOW FLOOR SLAB IN PIPE TRENCH.
4. RX 1-1/2" SAN DN.



1 PD-101 FIRST FLOOR - PLUMBING - DEMOLITION PLAN
1/8" = 1'-0"

0 4 8 16 24 FT
1/8" = 1'-0"

PROJECT TEAM

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

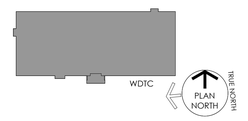
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
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	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR - PLUMBING - DEMOLITION PLAN

SHEET NUMBER:

PD-101

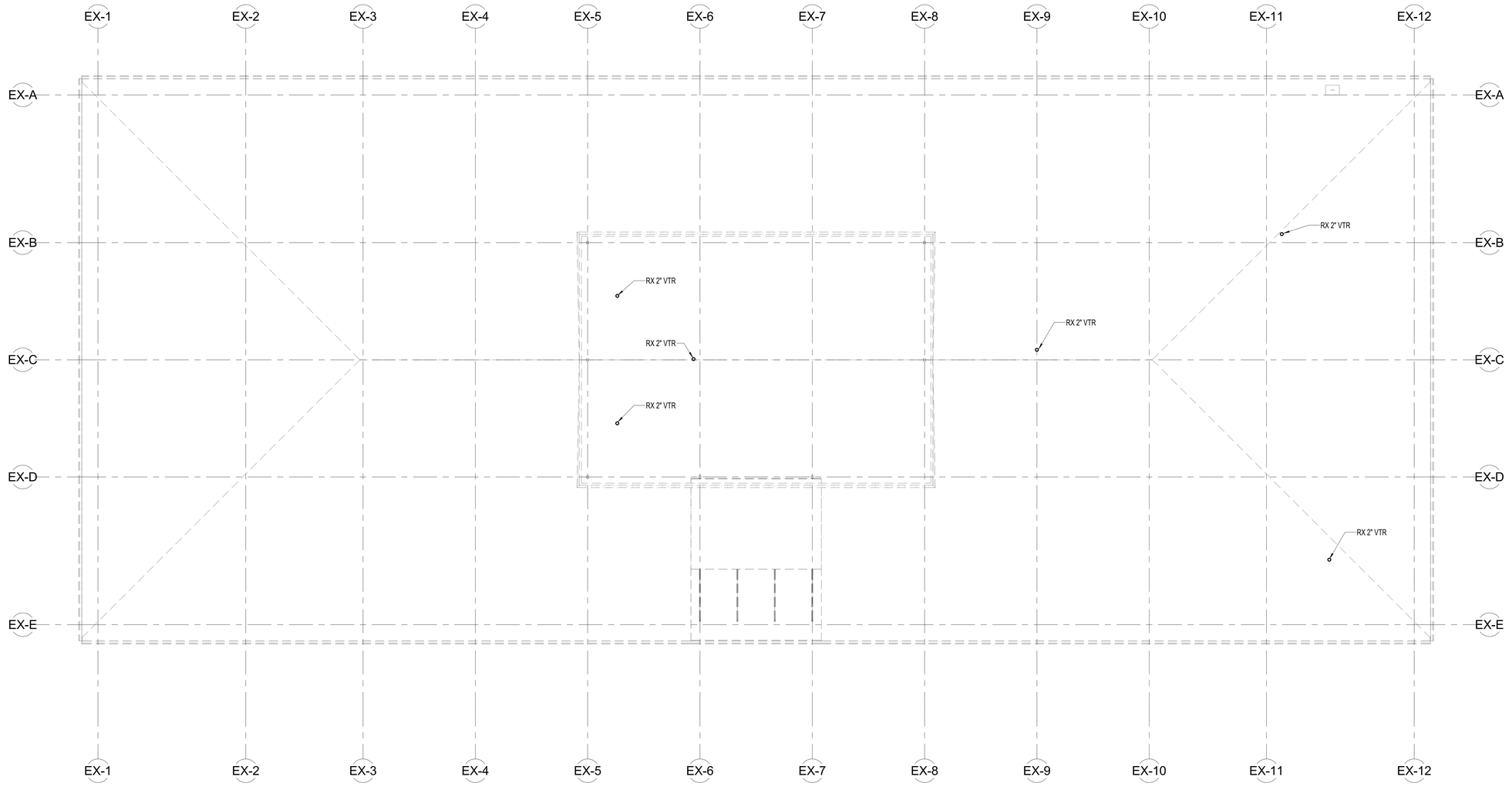
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1 PD-102 ROOF - PLUMBING - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

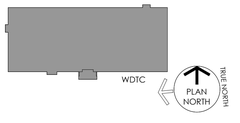
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE OF MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
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	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF - PLUMBING - DEMOLITION PLAN

SHEET NUMBER:

PD-102

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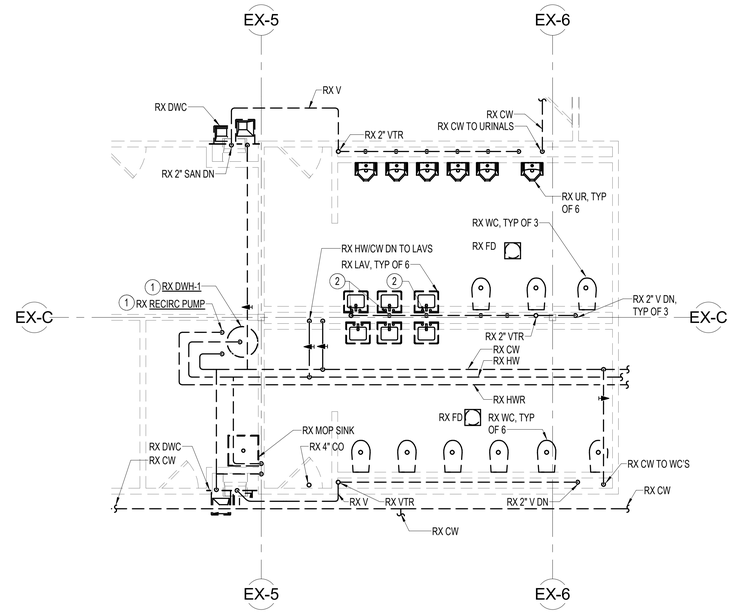
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) RX ALL ASSOCIATED WIRING, CONTROLS, PIPING, ACCESSORIES, ETC.

(2) RX 1-1/2" SAN DN.



1 PD-401 RESTROOMS - PLUMBING - DEMOLITION ENLARGED PLAN
1/4" = 1'-0"

1/4" = 1'- 0" 0 2 4 8 12 FT

PROJECT TEAM

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

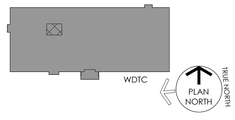
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ENLARGED PLUMBING PLANS

SHEET NUMBER:

PD-401

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PLUMBING ABBREVIATIONS

(APPLICABLE TO ALL PLUMBING DRAWINGS, NOT ALL ABBREVIATIONS ARE NECESSARILY USED ON THE DRAWINGS)

A	AMPS / COMPRESSED AIR
AC	AIR COMPRESSOR
ACC	AIR COOLED CHILLER / AIR COOLED CONDENSER
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ACV	AUTOMATIC CONTROL VALVE
AD	ACCESS DOOR
ADJ	ADJACENT / ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
ALT	ALTERNATE
ANC	ANCHOR
APG	AIR PRESSURE GAUGE
APPROX	APPROXIMATE
ARCH	ARCHITECTURAL
AS	AIR SEPARATOR
ATU	AIR TERMINAL UNIT
AV	ACID VENT / AIR VENT
AVG	AVERAGE
B	BOTTOM / BOILER
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTER
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BLR	BOILER
BTU	BRITISH THERMAL UNIT
BTUH	BRITISH THERMAL UNIT PER HOUR
BWF	BYPASS WATER FILTER
BWV	BACK WATER VALVE
C	CELSIUS / CONDUIT
CAP	CAPACITY
CFCI	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED
CFH	CUBIC FEET PER HOUR
CH	CHILLER
CI	CAST IRON
CIP	CAST IRON PIPE
CL	CENTERLINE
CLG	CEILING / COOLING
CNTR	CENTER
CO	CARBON MONOXIDE SENSOR / CLEANOUT / CONTRACTING OFFICER
COL	COLUMN
COMP	COMPRESSOR
CONC	CONCRETE
COND	CONDENSATE / CONDENSER / CONDENSING
CONN	CONNECTION
CONT	CONTINUE / CONTINUOUS
CONV	CONVECTOR / CONVERTER
COP	COEFFICIENT OF PERFORMANCE
COR	CONTRACTING OFFICER'S REPRESENTATIVE
CT	COOLING TOWER
CU	COPPER / CUBIC
CV	CHECK VALVE / CONSTANT VOLUME
CW	COLD WATER
CX	CONNECT TO EXISTING
D	DEEP / DEPTH / DIAMETER / DRAIN / DROP
DB	DECIBEL / DRY BULB
DFU	DRAINAGE FIXTURE UNITS
DIA	DIAMETER
DIFF	DIFFUSER
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DEW POINT / DIFFERENTIAL PRESSURE
DRN	DRAIN
DSCH	DISCHARGE
DWC	DRINKING WATER COOLER
DWF	DRINKING WATER FOUNTAIN
DWGS	DRAWINGS
DWH	DOMESTIC WATER HEATER
E	EAST / ELECTRICAL
EA	EACH
EAF	EXHAUST AIR FAN
EAT	ENTERING AIR TEMPERATURE
EER	ELECTRICAL EQUIPMENT ROOM / ENERGY EFFICIENCY RATIO
EF	EXHAUST FAN
EFF	EFFICIENCY
EFT	ENTERING FLUID TEMPERATURE
EG	ETHYLENE GLYCOL
ELEV	ELEVATION / ELEVATOR
EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
EMER	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
ES	EMERGENCY SHOWER
ET	EXPANSION TANK
ETR	EXISTING TO REMAIN
EWH	ELECTRIC WATER HEATER
EWT	ENTERING WATER TEMPERATURE
EX	EXISTING
EXP	EXPANSION / EXPOSED
EXT	EXTERIOR / EXTERNAL
F	FAHRENHEIT / FAN / FIRE / FIRE LINE
FA	FACE AREA / FREE AREA
FC	FLEXIBLE CONNECTION
FCO	FLOOR CLEANOUT
FCU	FAN COIL UNIT
FD	FIRE DAMPER / FLOOR DRAIN / FOUNDATION DRAIN
FF	FINISHED FLOOR / FLOOR-TO-FLOOR
FH	FIRE HYDRANT / FIRE HOSE
FHC	FIRE HOSE CABINET
FIN	FINISH
FLA	FULL LOAD AMPS
FLR	FLOOR
FM	FLOW METER / FACTORY MUTUAL GLOBAL
FPB	FAN POWERED BOX TERMINAL UNIT
FPD	FLUID PRESSURE DROP
FPM	FEET PER MINUTE
FS	FLOW SWITCH / FLOOR SINK
FT	FEET / FOOT
G	GAS / GRAMS
GAL	GALLON
GEN	GENERAL
GPH	GALLONS PER HOUR
GPM	GALLON PER MINUTE
GR	GRADE
GRD	GREASE RECOVERY DEVICE
GS	GREASE SANITARY
GWH	GAS-FIRED WATER HEATER
H	HEIGHT / HIGH
HB	HOSE BIBB
HP	HEAT PUMP / HIGH PRESSURE / HORSEPOWER
HPU	HEAT PUMP UNIT
HTG	HEATING
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
HWG	HOT WATER GENERATOR
HWR	HOT WATER RETURN
I	INLET / INPUT
ID	INSIDE DIAMETER
IN	INCH / INCHES
INSUL	INSULATION / INSULATED
J	JOULES
K	KITCHEN EQUIPMENT TYPE
KPA	KILOPASCALS
KW	KILOWATTS
L	LENGTH / LITERS
LAV	LAVATORY
LB	POUNDS
LFT	LEAVING FLUID TEMPERATURE
LP	LOW PRESSURE
LV	LABORATORY VACUUM / LABORATORY VENT
LVG	LEAVING
LW	LABORATORY WASTE
LWT	LEAVING WATER TEMPERATURE
M	MECHANICAL / METERS
MAX	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MCA	MINIMUM CIRCUIT AMPACITY
MECH	MECHANICAL
MER	MECHANICAL EQUIPMENT ROOM
MIN	MINIMUM
MISC	MISCELLANEOUS
MP	MEDIUM PRESSURE
MPH	MILES PER HOUR
MV	MEDICAL VACUUM / MIXING VALVE
N	NEWTONS / NITROGEN / NORTH
N/A	NOT APPLICABLE
NC	NOISE CRITERIA / NORMALLY CLOSED
NO	NITROUS OXIDE / NORMALLY OPEN / NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OF	OVERFLOW
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OPER	OPERATING / OPERATOR
OPNG	OPENING
OPP	OPPOSITE
P	PIPE / PLUMBING FIXTURE TYPE / PRESSURE / PUMP
PA	PASCAL
PD	PRESSURE DROP / PUMP DISCHARGE
PDI	PLUMBING AND DRAINAGE INSTITUTE
PH	PHASE
PL	PLATE / PILOT LIGHT
PPM	PARTS PER MILLION
PREL	PRELIMINARY
PRIM	PRIMARY
PSF	POUNDS PER SQUARE FOOT
PSI	PRESSURE - POUNDS PER SQUARE INCH
PSIG	PRESSURE - POUNDS PER SQUARE INCH, GAGE
QTY	QUANTITY
R	RADIUS / REFRIGERANT / RISE / RISER
RAD	RADIUS
RAF	RETURN AIR FAN
RCP	REINFORCED CONCRETE / REFLECTED CEILING PLAN
RD	ROOF DRAIN / ROUND
RED	REDUCED / REDUCING / REDUCTION
REF	REFERENCE / REFRIGERANT / REFRIGERATION
REFRIG	REFRIGERANT / REFRIGERATION
REL	RELIEF / RELOCATE
REQD	REQUIRED
REV	REVISE / REVISION
RHP	ROOFTOP HEAT PUMP
RPM	REVOLUTIONS PER MINUTE
RS	REFERENCE SENSOR / REFRIGERANT SENSOR / REFRIGERANT SUCTION
RSS	REMOTE BOILER SHUTDOWN SWITCH
RTU	ROOFTOP UNIT
RV	RELIEF VALVE
RX	REMOVE EXISTING
S	SANITARY / SECONDS / SOIL / SOUTH / SWITCH
SAF	SUPPLY AIR FAN
SCCR	SHORT CIRCUIT CURRENT RATING
SCH	SCHEDULE
SD	STORM DRAIN
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SF	SQUARE FEET / SQUARE FOOT
SH	SHOWER
SL	SLEEVE / SLOPE
SP	SPRINKLER PIPING
SS	SERVICE SINK / STAINLESS STEEL
STR	STRUCTURAL
SUP	SUPPLY
SUSP	SUSPEND / SUSPENDED
SW	STORM WATER
SWI	STORM WATER INLET
SYS	SYSTEM
T	TEMPERATURE SENSOR / THERMOSTAT
T&B	TOP AND BOTTOM
TEMP	TEMPERATURE / TEMPORARY
THRU	THROUGH
TOT	TOTAL
TW	TEMPERED WATER
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UON	UNLESS OTHERWISE NOTED
UR	URINAL
V	VACUUM / VALVE / VENT / VOLTS
VAR	VARIABLE / VARIES
VB	VAPOR BARRIER
VEL	VELOCITY
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VTR	VENT THROUGH ROOF
W	WASTE / WATER / WATT / WEST / WIDTH
WB	WET BULB
WC	WATER CLOSET / WATER COLUMN / WHEELCHAIR ACCESSIBLE
WG	WATER GAGE
WH	WALL HYDRANT / WATER HEATER
WL	WATER LEVEL
WPD	WATER PRESSURE DROP
WSHPU	WATER SOURCE HEAT PUMP UNIT
WT	WEIGHT
WTR	WATER
YD	YARD
YR	YEAR

PLUMBING LEGEND

(APPLICABLE TO ALL PLUMBING DRAWINGS)

SYMBOL	DESCRIPTION
CW	COLD WATER
HW	HOT WATER
HWR	HOT WATER RETURN
140	140 DEGREES F HOT WATER
SW	STORM WATER
SSW	SECONDARY STORM WATER
IW	INDIRECT WASTE
	SOIL OR WASTE
	VENT
PD	PUMP DISCHARGE
	DOMESTIC WATER SERVICE REDUCED PRESSURE ZONE BACKFLOW PREVENTER
D-(-)	DRAIN (ALL TYPES)
	FOUNDATION DRAIN
	HOSE BIBB
	WALL HYDRANT
G	GAS METER
M	WATER METER
GS	GREASE SANITARY
	CONNECT TO EXISTING
	END POINT OF REMOVAL OF EXISTING
1 / M-101	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	AIR VENT
	CAP (PIPE OR DUCT)
	PIPE BREAK - SINGLE LINE
	PIPE BREAK - DOUBLE LINE
	PRESSURE GAUGE
	STRAINER
	THERMOMETER
	UNION
	BALANCING VALVE
	CHECK VALVE
	PRESSURE REDUCING VALVE
	RELIEF VALVE
	SHUTOFF VALVE
	CLEANOUT

GENERAL PLUMBING NOTES

(APPLICABLE TO ALL PLUMBING DRAWINGS)

1. PRIOR TO SUBMITTING SHOP DRAWINGS TO COR FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, COORDINATE ELECTRICAL REQUIREMENTS BETWEEN CONTRACTORS OF ALL TRADES ASSOCIATED WITH THE INSTALLATION. THE GENERAL CONTRACTOR'S STAMP ON THE SUBMITTAL MUST STATE THAT COORDINATION BETWEEN ALL TRADES HAS BEEN VERIFIED AND THAT THE SUBMITTAL HAS BEEN APPROVED FOR COR'S REVIEW. IF CONTRACTOR SUBMITS EQUIPMENT WITH POWER REQUIREMENTS THAT ARE DIFFERENT FROM POWER CONNECTION INDICATED ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST PROVIDE A REASON FOR THE CHANGE AND WRITTEN CONFIRMATION THAT THE CHANGE HAS BEEN FULLY COORDINATED WITH ALL ASSOCIATED TRADES. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO ELECTRICAL CONNECTION, COORDINATE AND MAKE REQUIRED CHANGES TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH ALL ASSOCIATED TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT SUBMITTALS AMONG THE SUBCONTRACTORS, NOT THE COR'S.

2. ALL PIPING, EQUIPMENT, AND MATERIALS SHOWN "LIGHT" (———) ARE EXISTING TO REMAIN. DEMOLISH ALL PIPING, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND DASHED" (— — —) ON DEMOLITION DRAWINGS. PROVIDE ALL PIPING, EQUIPMENT, AND MATERIALS SHOWN "HEAVY AND SOLID" (———) ON NEW WORK DRAWINGS.

3. COORDINATE ALL PLUMBING WORK WITH MECHANICAL WORK, ELECTRICAL WORK, AND WORK OF OTHER TRADES.

4. THE LOCATION OF EXISTING UNDERGROUND UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. REPAIR ALL DAMAGES OCCASIONED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UNDERGROUND UTILITIES.

5. RUN ALL SOIL, WASTE AND DRAIN PIPING WITH 2 PERCENT MINIMUM GRADE UNLESS OTHERWISE NOTED. HORIZONTAL VENT PIPING SHALL BE GRADED TO DRIP BACK TO THE SOIL OR WASTE PIPE BY GRAVITY.

6. ELEVATIONS NOTED ARE TO CENTERLINES OF PIPES FOR ALL PRESSURE LINES AND TO INVERT FOR ALL GRAVITY FLOW LINES.

7. INSTALL PIPING SO THAT ALL VALVES ARE ACCESSIBLE.

8. UNLESS OTHERWISE NOTED, ROUTE ALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF SLAB, WITH SPACE FOR INSULATION IF REQUIRED.

9. MAINTAIN MINIMUM UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 36 INCHES WIDE AND 80 INCHES HIGH THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.

10. CERTAIN ITEMS SUCH AS ACCESS DOORS, CLEANOUTS, RISE AND DROPS IN PIPING, ETC., ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.

11. WHERE THE INSTALLATION OF NEW SERVICES OR THE EXTENSION OF EXISTING SERVICES REQUIRES CUTTING OF EXISTING FLOORS, WALLS, PARTITIONS, ETC., CHECK FOR THE PRESENCE OF EXISTING MECHANICAL, PLUMBING AND ELECTRICAL SERVICES WITHIN OR IMMEDIATELY BENEATH CONSTRUCTION. EXERCISE NECESSARY PRECAUTIONS TO PREVENT DAMAGE TO THE SERVICES OR INJURY TO PERSONNEL DUE TO CONTACT WITH SAME. TEMPORARILY DISCONNECT SERVICES DURING THE CUTTING OPERATION. SCHEDULE SERVICE OUTAGES IN ADVANCE WITH THE COR.

12. FLOW SCHEMATIC AND RISER DIAGRAMS INDICATE FLOW AND OPERATION CONCEPTS AS WELL AS GENERAL ARRANGEMENT OF EQUIPMENT. VALVES, PRESSURE GAUGES, ETC. ARE INDICATED FOR THIS PURPOSE. PROVIDE ADDITIONAL VALVES, PRESSURE GAUGES, ETC. AS SHOWN ON VARIOUS EQUIPMENT DETAILS. SEE PLANS AND DETAILS FOR PIPE SIZES NOT INDICATED ON FLOW SCHEDULES AND RISER DIAGRAMS.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR RESEARCHING ALL SYSTEMS THAT A PARTICULAR OUTAGE WILL AFFECT AS WELL AS LOCATING ALL SHUTOFF POINTS. INCLUDE THIS INFORMATION IN THE OUTAGE PLAN AND SUBMIT TO COR FOR APPROVAL.

14. PROVIDE SHUTOFF VALVES IN DOMESTIC WATER SYSTEMS IN BRANCH LINES SERVING TWO OR MORE FIXTURES.

15. PROVIDE WATER HAMMER ARRESTORS AT ALL FAST-CLOSING VALVES. ARRESTORS SHALL CONFORM TO ASSE 1010 AND BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

16. UNLESS OTHERWISE NOTED, WHERE HOT AND COLD WATER PIPING DROPS INTO PIPE CHASE, THE SIZE SHOWN FOR THE PIPE DROPS SHALL BE USED TO THE LAST FIXTURE.

17. THE MINIMUM SIZE OF WATER SUPPLY MAINS, RISERS, OR BRANCH PIPES SERVING TWO OR MORE PLUMBING FIXTURES, APPLIANCES, OR OUTLET CONNECTIONS SHALL BE 3/4".

18. USE OF COMBINATION WYE OR CROSS-TEE FITTINGS IN THE PLUMBING SANITARY SYSTEM IS NOT PERMITTED.

19. ADJUST SEWER INVERTS TO KEEP TOPS OF PIPE IN LINE WHERE PIPE SIZE CHANGES.

20. MAINTAIN MINIMUM OF 3'-0" COVER OVER UNDERGROUND WATER MAIN AND MINIMUM OF 2'-6" COVER OVER UNDERGROUND SEWERS AND DRAINS.

21. INFORMATION SHOWN ON THE PLUMBING DRAWINGS PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. EXISTING CONDITIONS ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO DEMOLITION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, OR THERE IS A QUESTION REGARDING SCOPE OF WORK OR LIMITS OF DISTURBANCE, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE COR IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

22. REMOVE ALL EXISTING PIPING, EQUIPMENT, AND MATERIALS NOT REQUIRED FOR RE-USE OR RE-INSTALLATION (SHOWN OR OTHERWISE). ALL EXISTING MATERIALS AND EQUIPMENT WHICH ARE REMOVED AND ARE DESIRED BY THE GOVERNMENT, OR ARE INDICATED TO REMAIN THE PROPERTY OF THE GOVERNMENT SHALL BE DELIVERED BY THE CONTRACTOR WHERE DIRECTED BY THE COR. ALL OTHER MATERIALS AND EQUIPMENT WHICH ARE REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED BY THE CONTRACTOR FROM THE PREMISES.

23. DISCONNECT EXISTING PIPING NO LONGER REQUIRED TO REMAIN IN SERVICE (SHOWN OR OTHERWISE) AND REMOVE PIPING BACK TO SERVICE MAINS UNLESS OTHERWISE INDICATED OR NOTED ON PLANS. REMOVE EXISTING PIPE HANGERS, SUPPORTS, VALVES, ETC. CAP, PLUG, OR SEAL EXISTING PIPING INDICATED OR REQUIRED TO REMAIN IN SERVICE OR IN PLACE. NO EXISTING PIPING SHALL BE LEFT UNSEALED. VALVE ALL TERMINATED PRESSURE PIPE.

24. EXISTING PIPING, EQUIPMENT, AND MATERIALS AFFECTED BY DEMOLITION OR NEW WORK INSTALLATION AND REQUIRED TO REMAIN IN SERVICE SHALL BE RE-INSTALLED OR SUPPORTED AS REQUIRED IN ACCORDANCE WITH THE SPECIFICATIONS. ALL WORK SHALL BE COMPLETED TO THE SATISFACTION OF THE COR AND AT NO ADDITIONAL CONTRACT COST.

25. REMOVE ALL ACCESSORIES, CONTROLS, ENCLOSURES, SUPPORTS, HANGERS, PADS, ETC. ASSOCIATED WITH ALL EQUIPMENT SHOWN TO BE REMOVED. REPAIR AND PAINT DAMAGED SURFACES AND ALL SURFACES BEHIND ALL EQUIPMENT SHOWN TO BE DEMOLISHED TO MATCH EXISTING ADJACENT SURFACES.

PLUMBING DESIGN SUMMARY

TOTAL DRAINAGE FIXTURE UNITS: 116
PEAK DOMESTIC WATER DEMAND: 93 GPM
PEAK DOMESTIC HOT WATER LOAD: 130 MBH (38 KW)

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PLUMBING COVER SHEET

SHEET NUMBER:

P-001

SHEET 86 OF 172

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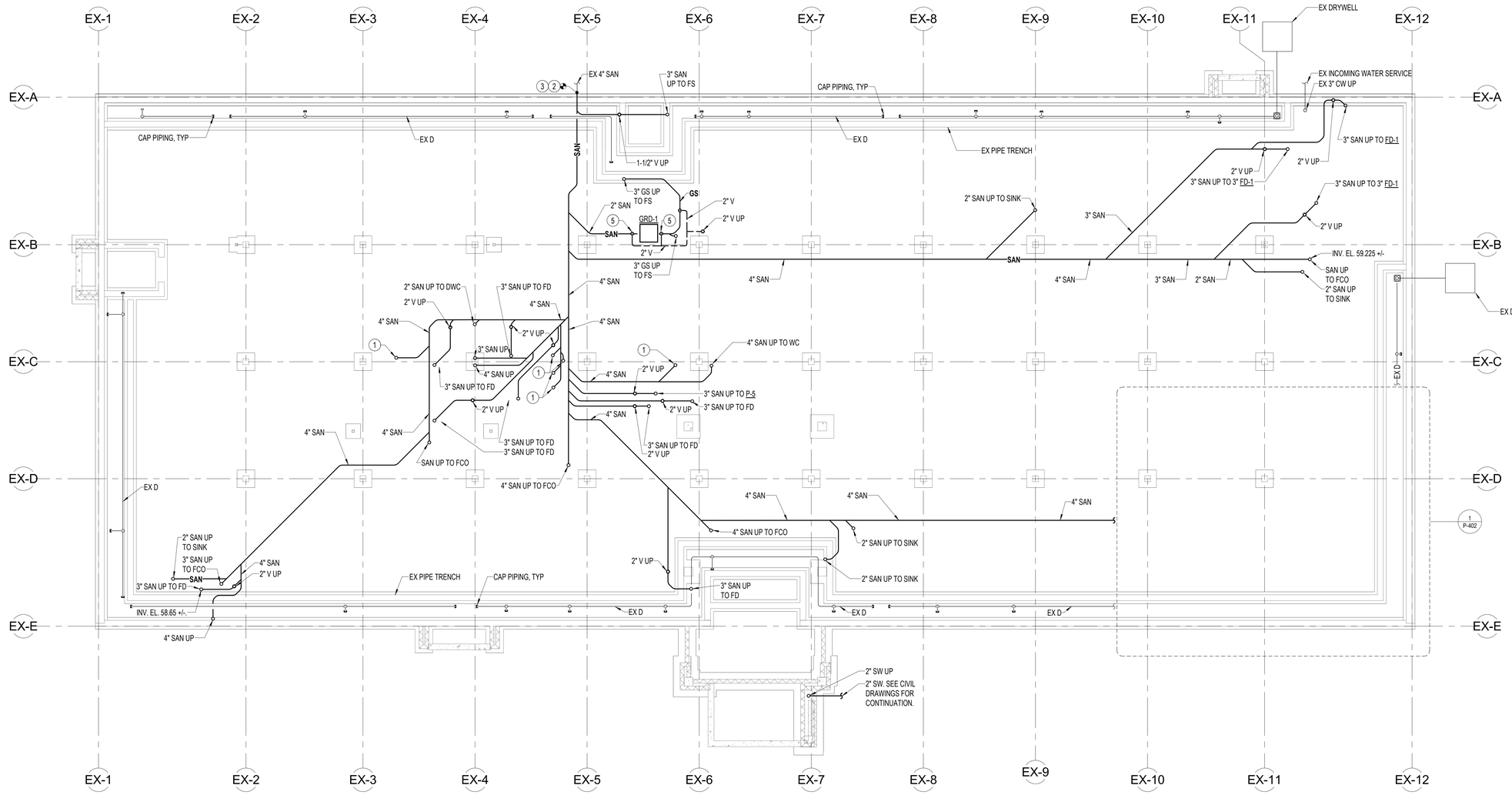
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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, FILTERS, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS IN WRITING TO THE COR FOR RESOLUTION AND AWAIT WRITTEN DIRECTIONS BEFORE PROCEEDING.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

(1) 2" SAN UP TO LAV'S.
(2) SEE CIVIL DRAWINGS FOR CONTINUATION.
(3) INV. EL. 656.0' +/-.
(4) 1" CW/ 1" HW UP.
(5) 2" VENT PIPE SHALL CONNECT TO TOP OF SANITARY PIPE.
(6) 1-1/2" V UP



1 P-100 FOUNDATION - PLUMBING - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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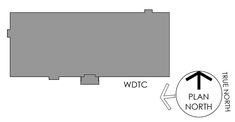
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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KEY PLAN



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FOUNDATION - PLUMBING - NEW WORK PLAN

SHEET NUMBER:

P-100

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2. ALL DOMESTIC HOT WATER RETURN BALANCING VALVES SHALL BE SET TO 0.5 GPM UNLESS OTHERWISE NOTED.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

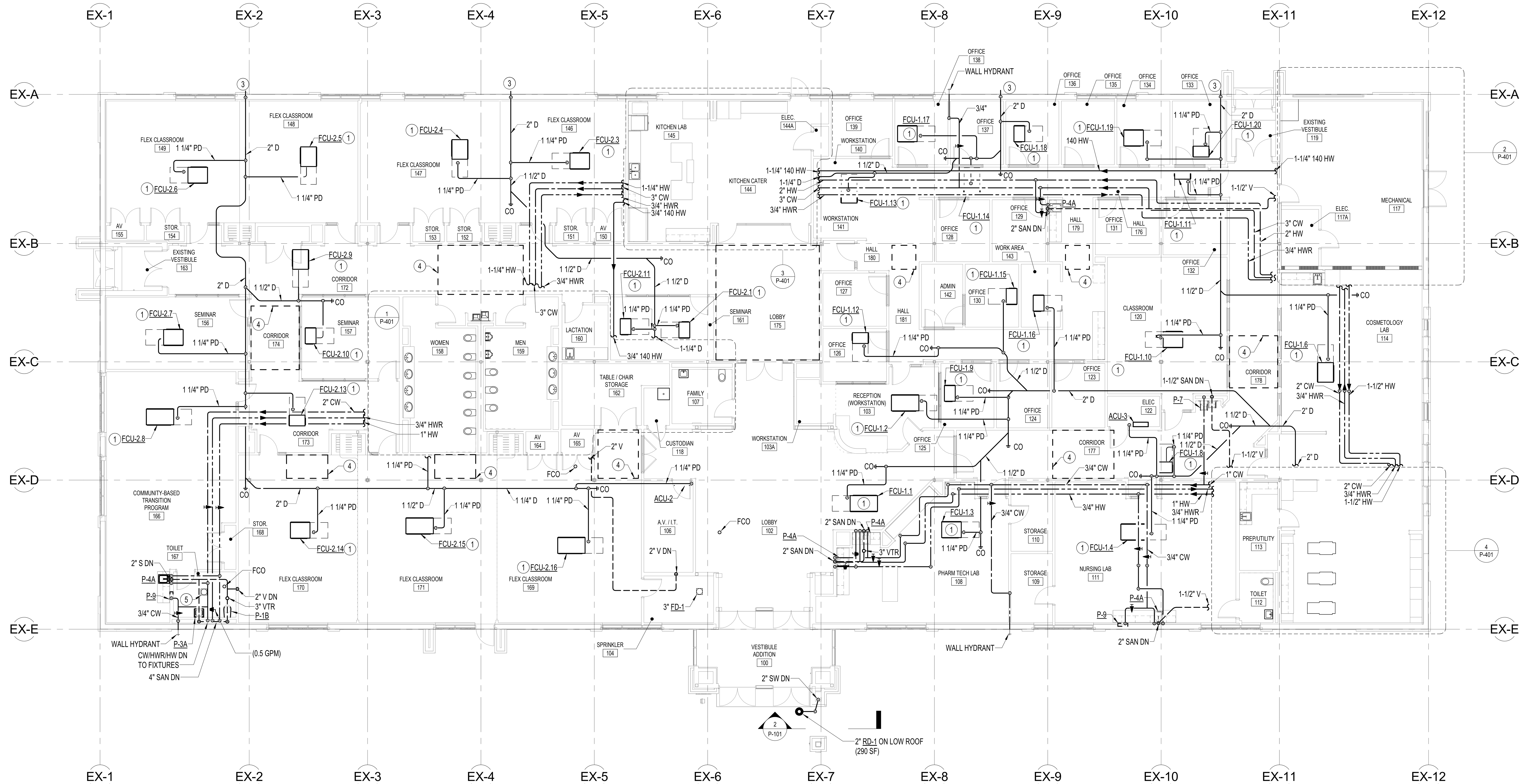
(1) PROVIDE CP-1 ON D. DISCHARGE 2" D TO GRADE.

(2) 3/4" CW/ 3/4" HW DOWN.

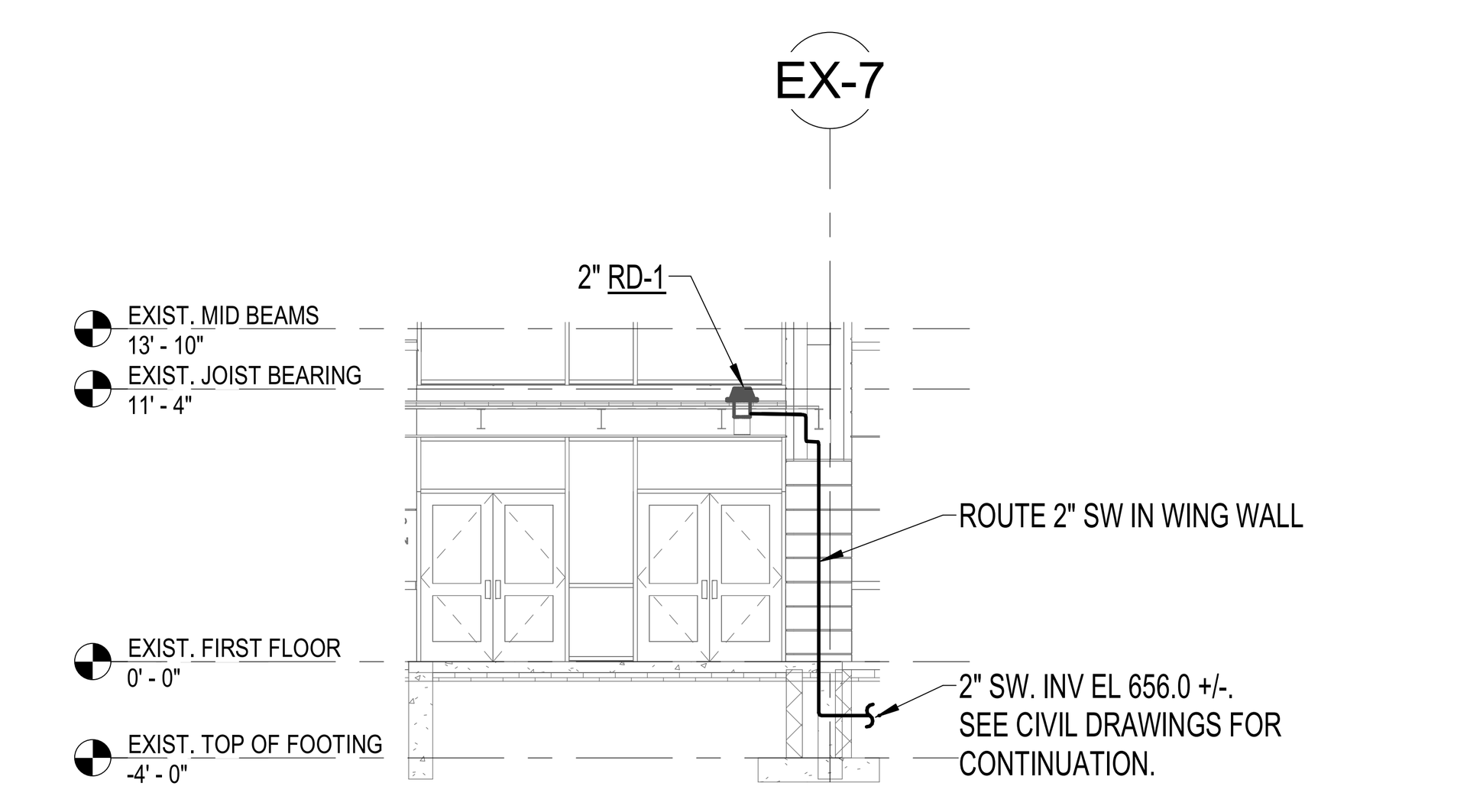
(3) TERMINATE THROUGH WALL APPROXIMATELY 1 FT ABOVE GRADE WITH 90 DEGREE ELBOW ON TO SPLASH BLOCK.

(4) PIPING SHALL NOT BE INSTALLED IN LIGHT SHAFT.

(5) 3" FD-1. PROVIDE TYPE B TRAP PRIMER FROM WATER CLOSET TO PRIME FLOOR DRAIN.



1 (P-101) FIRST FLOOR - PLUMBING - NEW WORK PLAN
1/8" = 1'-0"



2 (P-101) ENTRANCE - PLUMBING - NEW WORK SECTION
1/8" = 1'-0"

1/8" = 1' - 0" 0 4 8 16 24 FT

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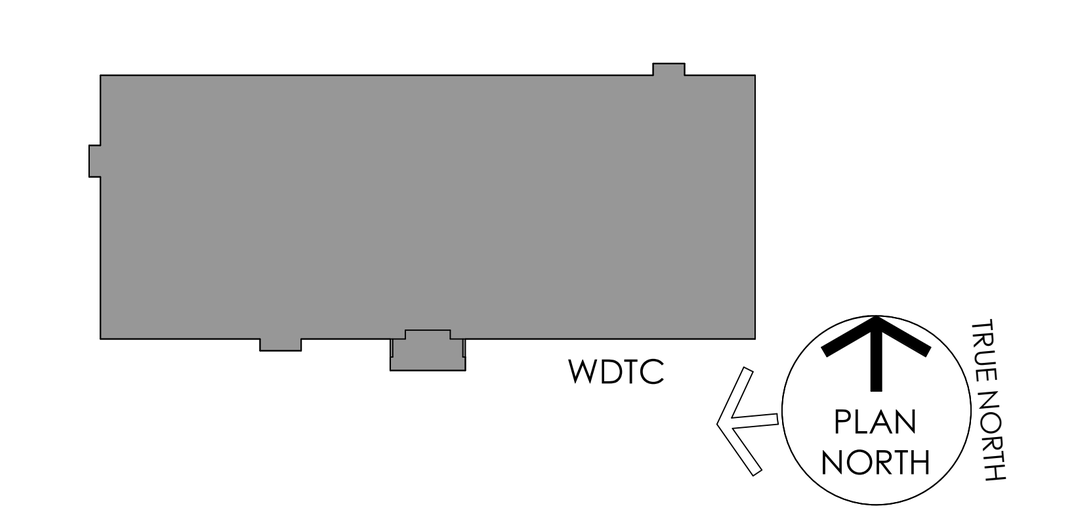
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Maryland DEPARTMENT OF GENERAL SERVICES

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FIRST FLOOR - PLUMBING - NEW WORK PLAN

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P-101

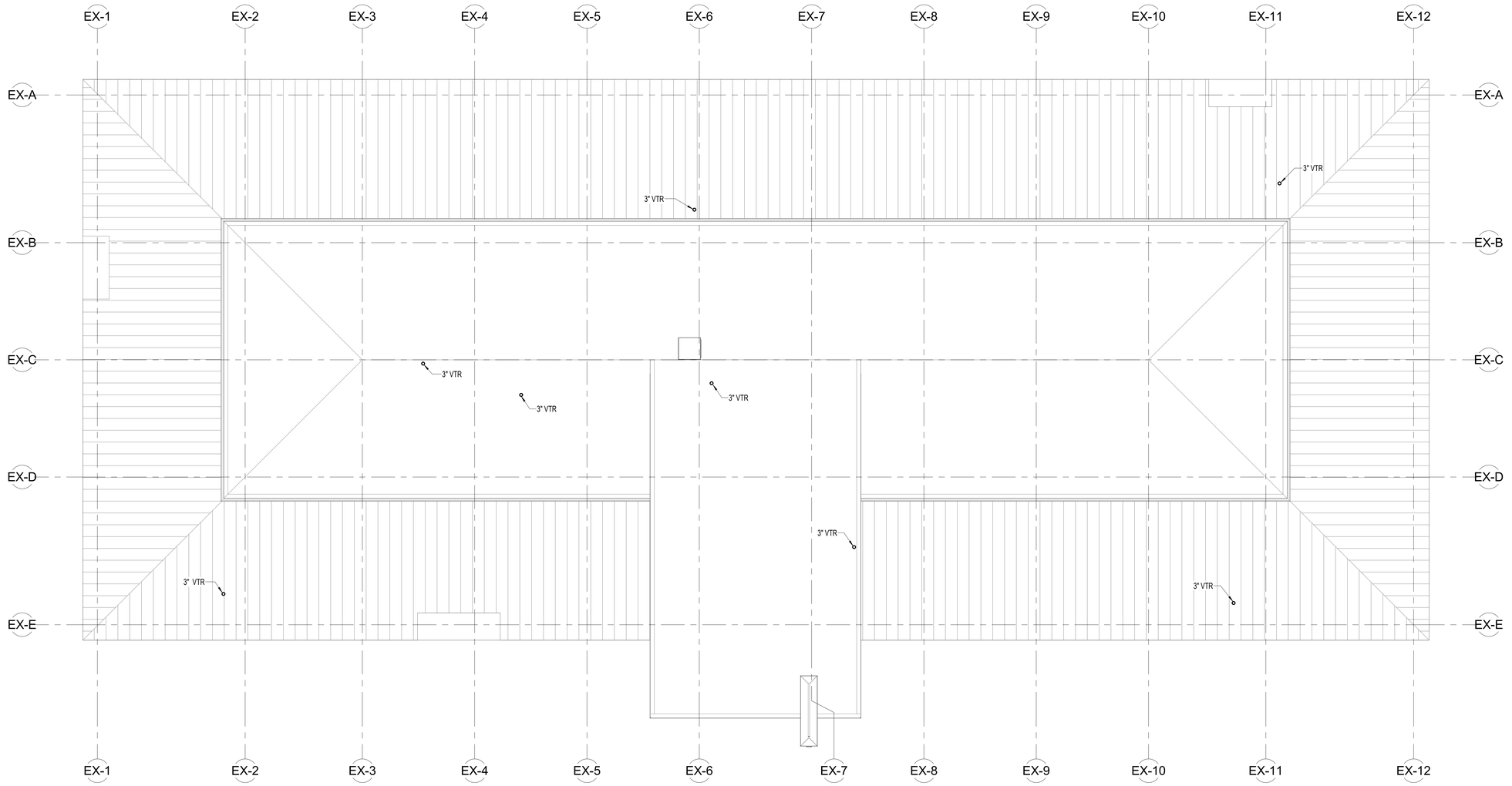
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1 / P-102 ROOF - PLUMBING - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
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FREDERICK, MD | 21701-5680
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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

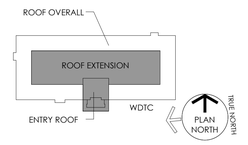
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF - PLUMBING - NEW WORK PLAN

SHEET NUMBER:

P-102

SHEET 89 OF 172

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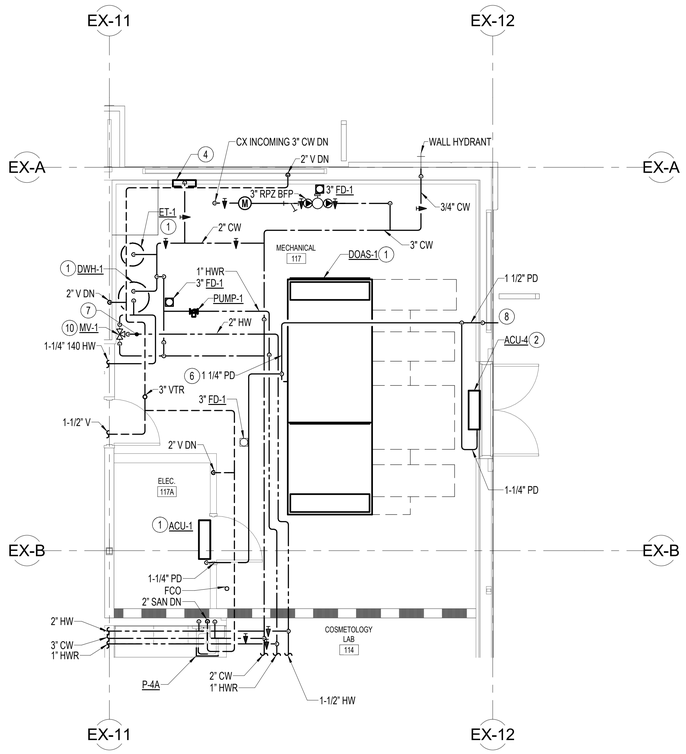
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DRAWING NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

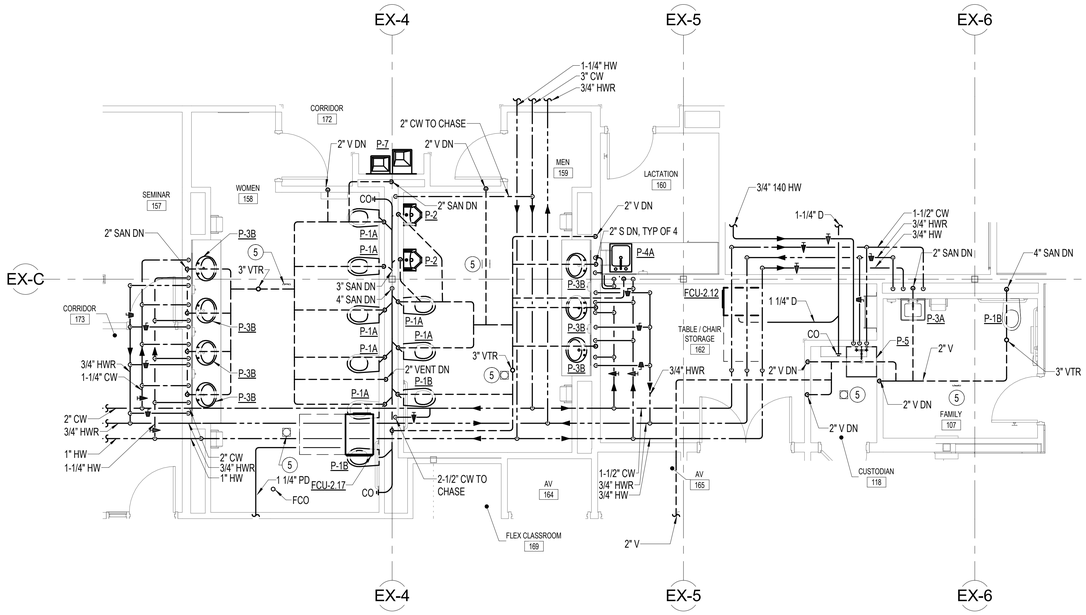
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2. ALL DOMESTIC HOT WATER RETURN BALANCING VALVES SHALL BE SET TO 0.5 GPM UNLESS OTHERWISE NOTED.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

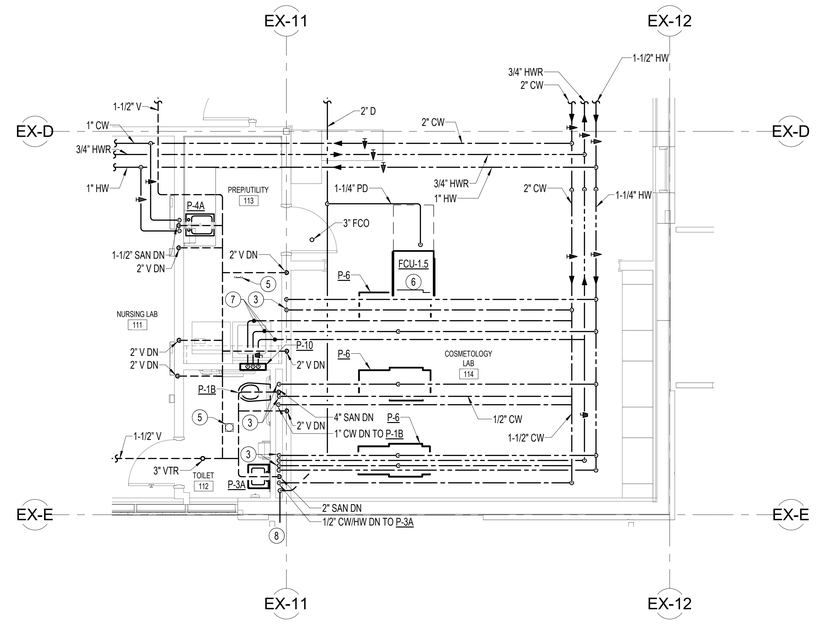
1. MOUNT ON 4" HOUSEKEEPING PAD.
2. MOUNT ON WALL ABOVE DOOR.
3. 1" CW / 1" HW DOWN.
4. TYPE A TRAP PRIMER. MOUNT ON WALL WITH TOP OF UNIT APPROXIMATELY 60" AFF.
5. 3" FD-1. PROVIDE TYPE B TRAP PRIMER FROM WATER CLOSET TO PRIME FLOOR DRAIN.
6. PROVIDE CP-1 ON D. DISCHARGE D TO GRADE.
7. SUB METER. INTEGRATE INTO BAS.
8. TERMINATE THROUGH WALL APPROXIMATELY 1 FT ABOVE GRADE WITH 90 DEGREE ELBOW ON TO SPLASH BLOCK.
9. P-11. SEE ARCHITECTURAL PLANS AND SPECS FOR MORE INFORMATION.
10. MOUNT MIXING VALVE ON WALL 4' 0" AFF



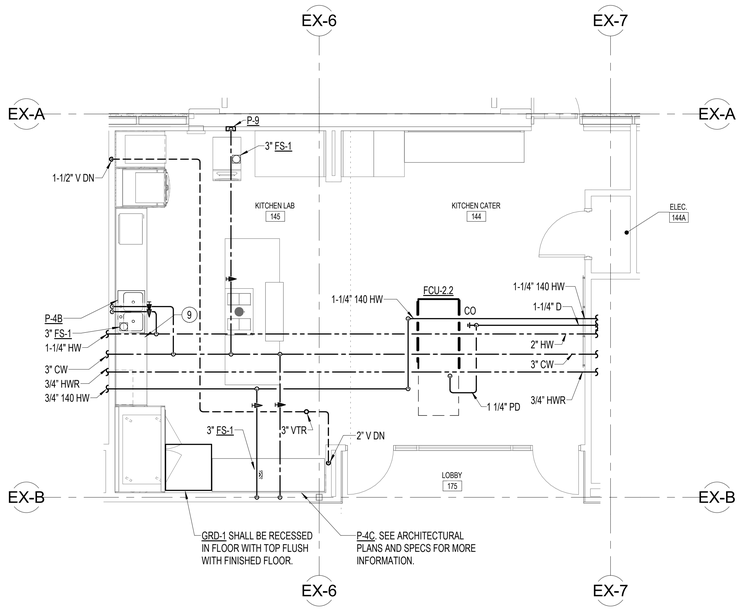
2 P-401 MECHANICAL ROOM - PLUMBING - NEW WORK ENLARGED PLAN
1/4" = 1'-0"



1 P-401 RESTROOMS - PLUMBING - NEW WORK ENLARGED PLAN
1/4" = 1'-0"



4 P-401 114 COSMETOLOGY LAB - PLUMBING - ENLARGED NEW WORK PLAN
1/4" = 1'-0"



3 P-401 FIRST FLOOR - PLUMBING - NEW WORK ENLARGED PLAN
1/4" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT

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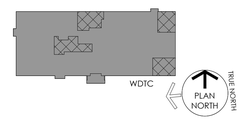
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ENLARGED PLUMBING PLANS

SHEET NUMBER:

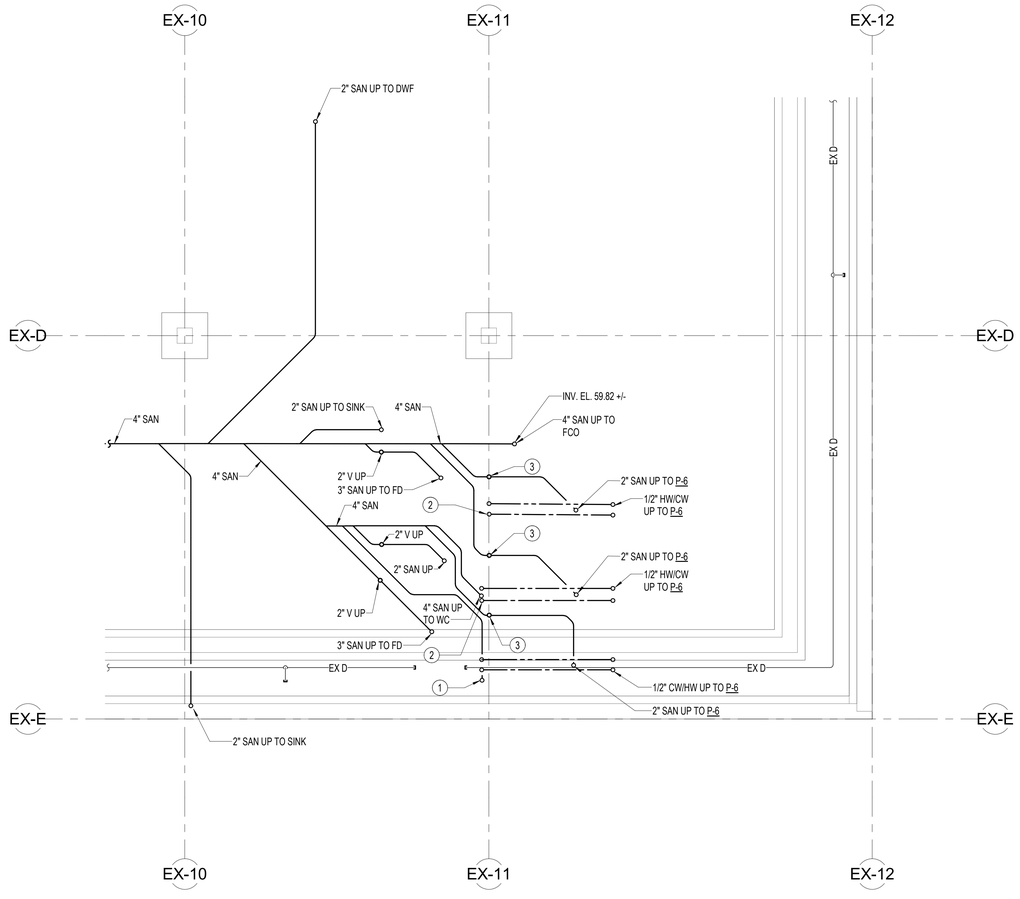
P-401

SHEET 90 OF 172

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1 P-402 FOUNDATION - PLUMBING - NEW WORK ENLARGED PLAN
1/4" = 1'-0"

1/4" = 1' - 0" 0 2 4 8 12 FT

PROJECT TEAM

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PROJECT ADDRESS

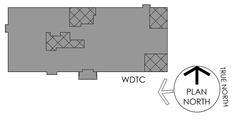
12401 WILLOWBROOK RD, SE
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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
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SHEET TITLE:

ENLARGED PLUMBING PLANS

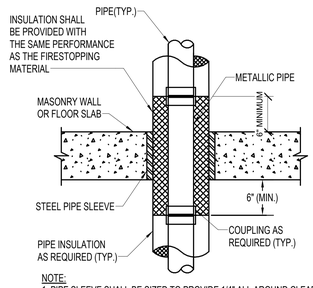
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SHEET 91 OF 172

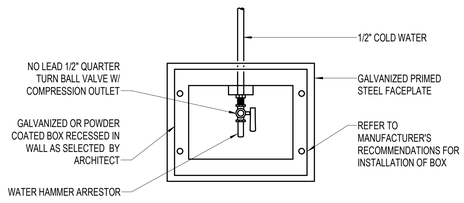
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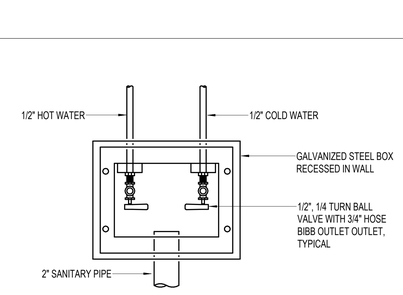
NOTE:
1. PIPE SLEEVE SHALL BE SIZED TO PROVIDE 1/4" ALL AROUND CLEARANCE. PIPE SLEEVE AND INSULATION SHALL EXTEND 1-INCH ABOVE FINISHED FLOOR.

TYPICAL CONCRETE FLOOR PENETRATION



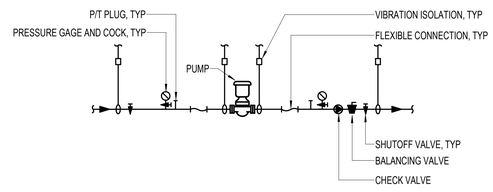
NOTES:
1. CONTRACTOR SHALL COORDINATE UPFEED OR DOWNFEED BOX CONNECTIONS AS REQUIRED FOR UNOBSTRUCTED INSTALLATION AND COORDINATION WITH OTHER TRADES AND WALL CONSTRUCTION.
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS/REQUIREMENTS.

ICE MACHINE SUPPLY UNIT

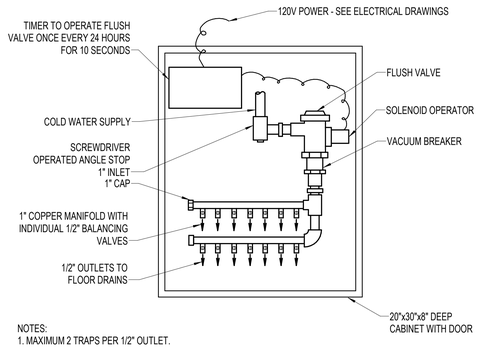


NOTES:
1. CONTRACTOR SHALL COORDINATE UPFEED OR DOWNFEED BOX CONNECTIONS AS REQUIRED FOR UNOBSTRUCTED INSTALLATION AND COORDINATE WITH OTHER TRADES AND WALL CONSTRUCTION.
2. INSTALL IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS/ REQUIREMENTS.
3. PROVIDE WATER HAMMER ARRSTORS ON HOT/COLD WATER LINES.

WASHING MACHINE SUPPLY/DRAIN UNIT



IN-LINE CIRCULATOR

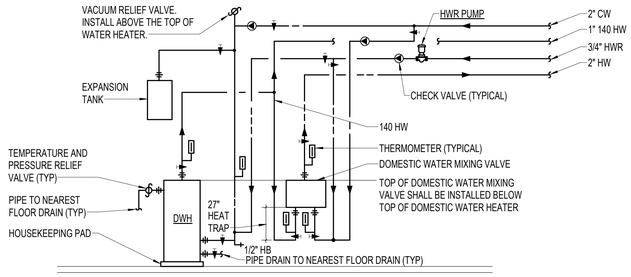


NOTES:
1. MAXIMUM 2 TRAPS PER 1/2" OUTLET.

AUTOMATIC TRAP PRIMING SYSTEM (TYPE A)

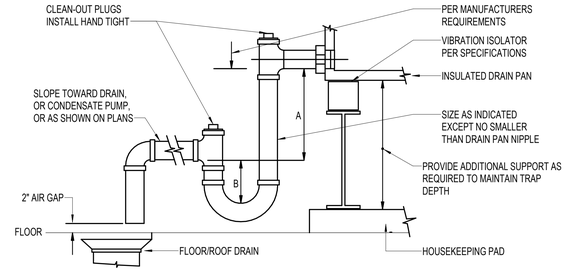
NOTES:
1. SIMILAR FOR PIPING USING ROLLER SUPPORT IN LIEU OF SHIELD
2. REFER TO SPECIFICATIONS FOR SHIELD LENGTH

PIPE INSULATION PROTECTION

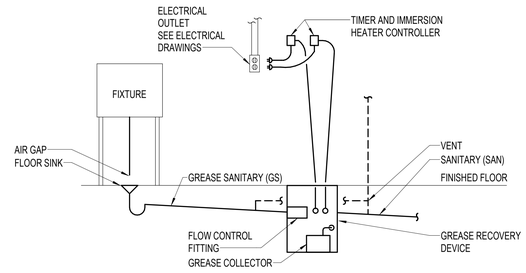


DOMESTIC WATER HEATER WITH MIXING VALVE PIPING

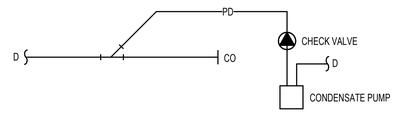
DRAW-THROUGH UNITS	BLOW-THROUGH UNITS
A = PLENUM NEGATIVE STATIC PRESSURE (INCHES WC) AT DESIGN OPERATING CONDITION, PLUS 1".	A = 1" (MINIMUM)
B = A/2 + 1/2" (MINIMUM)	B = PLENUM POSITIVE STATIC PRESSURE (INCHES WC) AT DESIGN OPERATING CONDITION, MIN 1".



COOLING COIL CONDENSATE DRAIN



AUTOMATIC GREASE RECOVERY DEVICE



CONDENSATE PUMP WITH CHECK VALVE

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PLUMBING DETAILS

SHEET NUMBER:

P-501

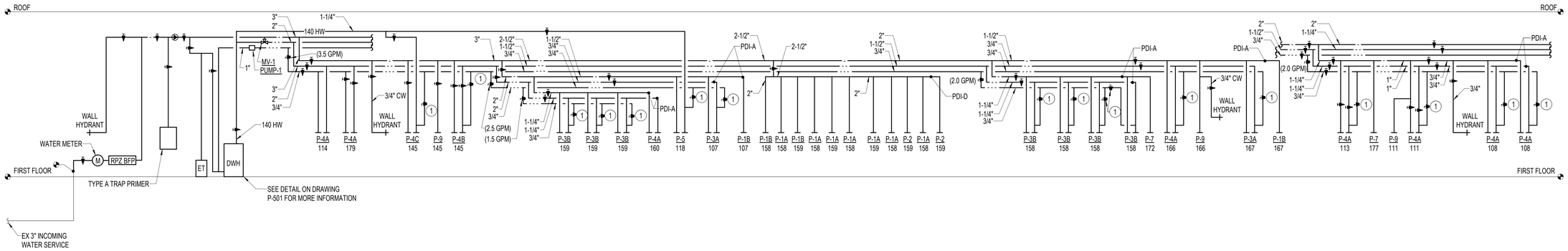
SHEET 92 OF 172

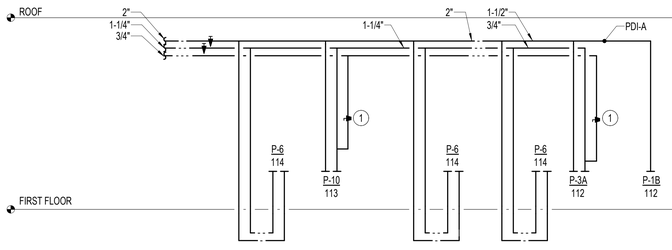
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SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. BALANCE TO 0.5 GPM.





1 P-601 DOMESTIC WATER RISER DIAGRAM
N.T.S.

PROJECT TEAM

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ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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SHEET TITLE:

DOMESTIC WATER RISER DIAGRAMS

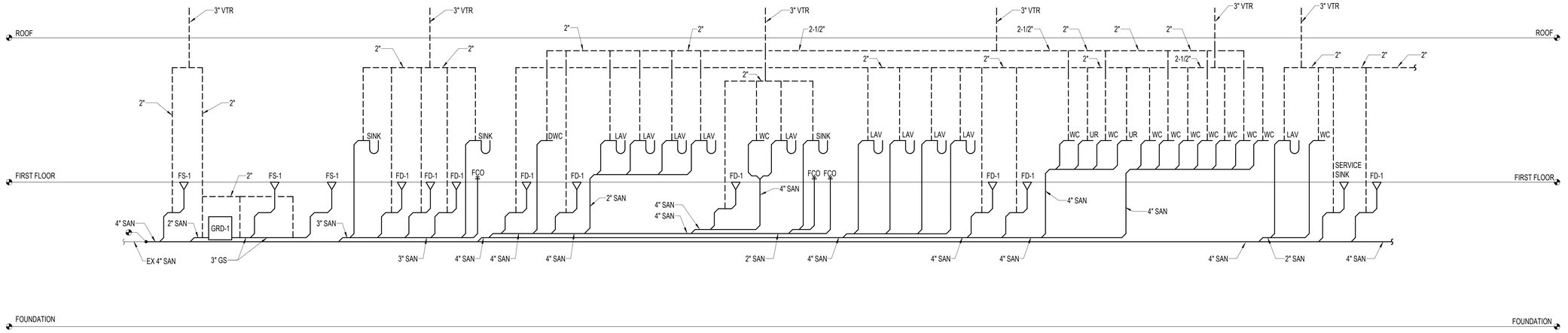
SHEET NUMBER:

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1 P-602 SANITARY RISER DIAGRAM
N.T.S.

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Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
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DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

SANITARY RISER DIAGRAMS

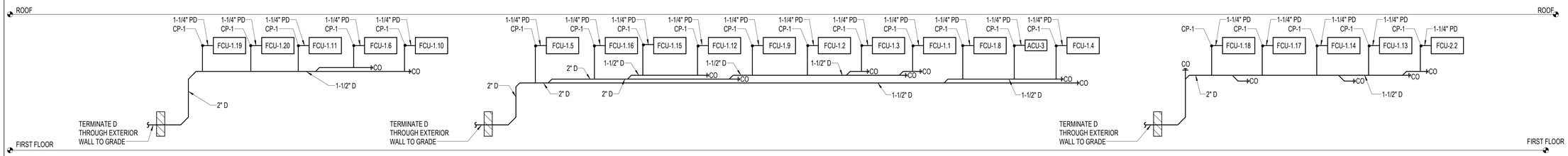
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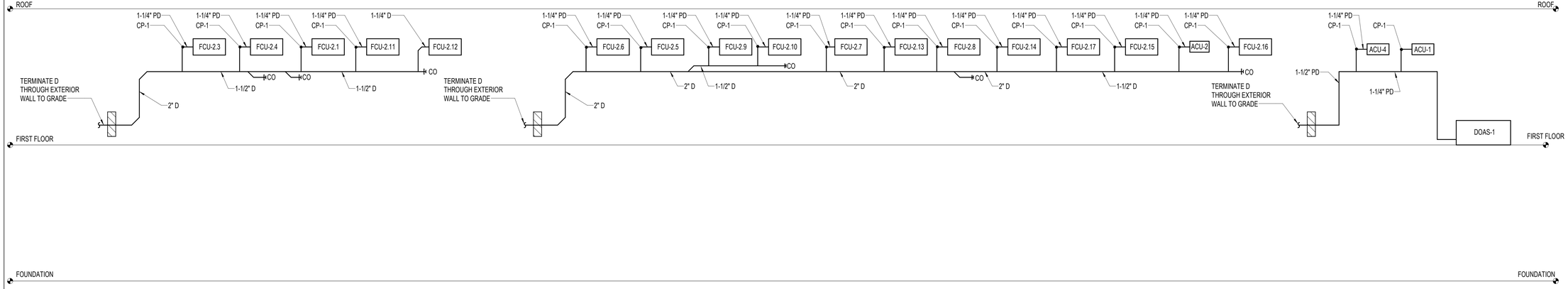
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1 P-603 CONDENSATE RISER DIAGRAM 1
N.T.S.



2 P-603 CONDENSATE RISER DIAGRAM 2
N.T.S.

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CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CONDENSATE RISER DIAGRAMS

SHEET NUMBER:

P-603

SHEET 95 OF 172

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GENERAL NOTES: (APPLICABLE TO ALL PLUMBING SCHEDULES)

1. UNIT NUMBERS ARE INDICATED WHERE ALL UNITS ARE LISTED AND NUMBERED INDIVIDUALLY.
2. UNIT SYMBOLS ARE INDICATED WHERE ALL UNITS ARE NOT LISTED AND NUMBERED INDIVIDUALLY.
3. UNIT TYPES ARE DESCRIBED IN THE SPECIFICATIONS.
4. TEMPERATURE VALUES ARE LISTED IN DEGREES FAHRENHEIT.
5. FLUID PRESSURE VALUES ARE LISTED IN FEET OF WATER GAGE.
6. PIPE SIZES ARE LISTED IN SINGLE-NUMBER INCHES OF NOMINAL DIAMETER OR MULTIPLE NUMBER INCHES OF INDICATED PARAMETER. CONNECTION SIZES ARE BRANCH SIZES FROM MAINS TO UNIT INLETS. SINGLE PIPE SIZE IS TYPICAL FOR SUPPLY AND RETURN.

PLUMBING FIXTURES

UNIT SYMBOL	FIXTURE	CW (NOTE 1)	HW (NOTE 1)	140 HW (NOTE 1)	SAN (NOTE 1)	IW (NOTE 1)	VENT (NOTE 2)	BASIS OF DESIGN	NOTES
P-1A	WATER CLOSET - WALL MOUNTED	1	-	-	4	-	2	KOHLER MODEL K-84325	
P-1B	WATER CLOSET - WALL MOUNTED - ADA	1	-	-	4	-	2	KOHLER MODEL K-84325	
P-2	URINAL	3/4	-	-	2	-	1-1/2	KOHLER MODEL K-4989-T	
P-3A	LAVATORY - WALL MOUNTED	1/2	1/2	-	1-1/2	-	1-1/2	AMERICAN STANDARD DECORUM MODEL 9024.004EC	(NOTE 5)
P-3B	LAVATORY - COUNTER MOUNTED	1/2	1/2	-	1-1/2	-	1-1/2	SINK INTEGRAL TO CASEWORK PROVIDED UNDER DIVISION 12	(NOTE 6)
P-4A	SINGLE COMPARTMENT SINK - UNDERMOUNT	1/2	1/2	-	1-1/2	-	1-1/2	JUST MANUFACTURING MODEL USADA1816A55-J	
P-4B	KITCHEN SINK - UNDERMOUNT	1/2	1/2	-	-	1-1/2	-	JUST MANUFACTURING MODEL USADA1620A45-J	
P-4C	TRIPLE COMPARTMENT SINK	1/2	-	1/2	-	(3) 1-1/2	1-1/2	SEE ARCHITECHTURAL DRAWINGS	
P-5	SERVICE SINK	3/4	-	3/4	3	-	1-1/2	FIAT MODEL TSB100	(NOTE 4)
P-6	SHAMPOO BOWL	1/2	1/2	-	1-1/2	-	1-1/2	OWNER-FURNISHED	(NOTES 6, 7)
P-7	DRINKING WATER COOLER	1/2	-	-	1-1/2	-	1-1/2	ELKAY MODEL LRPBM28K	
P-9	ICE MAKER BOX	1/2	-	-	-	-	-	-	(NOTE 5)
P-10	WASHING MACHINE BOX	1/2	1/2	-	1-1/2	-	1-1/2	-	
P-11	DISHWASHER	-	1/2	-	-	3/4	-	SEE ARCHITECHTURAL DRAWINGS	(NOTE 8)

NOTES FOR PLUMBING FIXTURE SCHEDULES:

1. PIPING CONNECTION SIZES ARE BRANCH SIZES WHICH SHALL BE TO FIXTURE ROUGH-IN LOCATION. PROVIDE ADAPTER WHERE PIPE CONNECTION SIZE AT FIXTURE IS DIFFERENT THAN ROUGH IN SIZE.
2. INDIVIDUAL VENT PIPE SIZE SHALL BE FROM FIXTURE DRAIN OR DRAINAGE FITTING TO BRANCH VENT OR VENT STACK, EXCEPT WHERE INDICATED ON DRAWINGS.
3. PROVIDE ASSE 1022 BACKFLOW PREVENTER IN COLD WATER RUNOUT.
4. PROVIDE CHECK VALVES IN HOT AND COLD WATER RUNOUTS.
5. PROVIDE HARDWIRED POWER CONNECTION FOR FAUCET SENSOR. SEE ELECTRICAL DRAWINGS FOR MORE INFORMATION.
6. PROVIDE ACCESSIBLE HAIR TRAP UPSTREAM OF P-TRAP.
7. OWNER FURNISHED, CONTRACTOR INSTALLED.
8. DISCHARGE SAN TO ADJACENT 3" FS-1 WITH AIR GAP.

DOMESTIC WATER HEATERS

UNIT NO	LOCATION	SERVICE	CAPACITY (GAL)	EWT	LWT	RECOVERY GPH	ELECTRICAL			BASIS OF DESIGN	NOTES
							KW	V	PH		
DWH-1	117 MECHANICAL	DOMESTIC HOT WATER	120	40	140	156	38	480	3	HUBBELL MODEL SE120	

EXPANSION TANKS - PLUMBING

UNIT NO	LOCATION	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	APPROX SIZE (DxL)	INITIAL CHARGE (PSI)	PIPE SIZE TANK CONNECTION	BASIS OF DESIGN	NOTES
ET-1	117 MECHANICAL	DOMESTIC WATER	4.4	3.2	11x15	50	3/4	AMTROL MODEL ST-12	

PUMPS - CONDENSATE

UNIT NO	LOCATION	SERVICE	FLUID			MOTOR	ELECTRICAL		BASIS OF DESIGN	NOTES
			TYPE	GPH	FPD	HP	V	PH		
CP-1	SEE PLANS	FCU CONDENSATE	CONDENSATE	20	15	1/30	120	1	LITTLE GIANT MODEL VCCA-20-P	

PUMPS - HOT WATER RECIRCULATION

UNIT NO.	TYPE	LOCATION	SERVICE	FLUID	FLOW (GPM)	HEAD (FT)	TEMP	HP	RPM	ELECTRICAL		BASIS OF DESIGN	NOTES
										VOLTS/PHASE	HZ		
PUMP-1	C	117 MECHANICAL	HWR	WATER	7.5	15	110	0.125	3250	120/1	60	TACO 0014	

GREASE RECOVERY DEVICES

UNIT NO	LOCATION	SERVICE	APPROXIMATE SIZE			INLET SIZE	OUTLET SIZE	FLOW RATE (GPM)	GREASE CAPACITY (LBS)	IMMERSION HEATER KW	VOLTAGE/PHASE	BASIS OF DESIGN	NOTES
			LENGTH (IN)	WIDTH (IN)	DEPTH (IN)								
GRD-1	145 KITCHEN LAB	GREASE WASTE	36	36	18	2	2	20	40	1.5	120/1	HIGHLAND TANK MODEL IF-AGI-20	

MIXING VALVE

UNIT NO.	LOCATION	SERVICE	GPM	MAX PRESSURE DROP (PSI)	CW INLET	HW INLET	HW OUTLET	DISCHARGE TEMPERATURE (DEGREES F)	BASIS OF DESIGN	NOTES
MV-1	117 MECHANICAL	DOMESTIC WATER	28	5	1"	1"	1-1/4"	110	LYNC DIGITEMP JR.	

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Maryland DEPARTMENT OF GENERAL SERVICES

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PLUMBING SCHEDULES

SHEET NUMBER:

P-701

SHEET 96 OF 172

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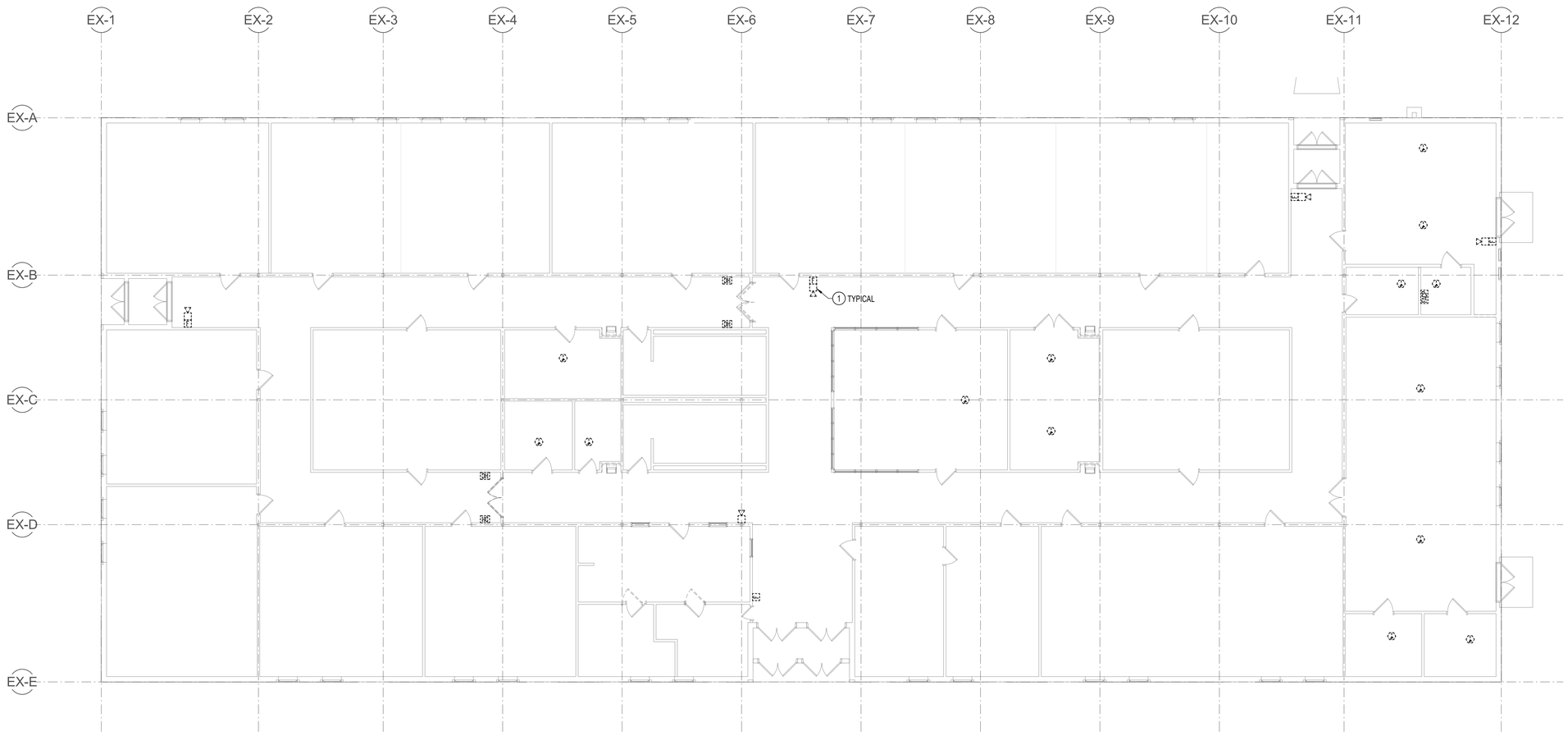
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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, FIRE ALARM ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (------) INDICATE EXISTING WORK TO BE REMOVED. FIRE ALARM ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) REMOVE EXISTING FIRE ALARM DEVICE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.



1 FAD101 FIRST FLOOR - FIRE ALARM - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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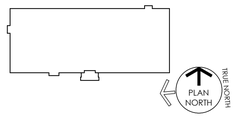
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FIRST FLOOR DEMOLITION PLAN - FIRE ALARM

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FAD101

SHEET 97 OF 172

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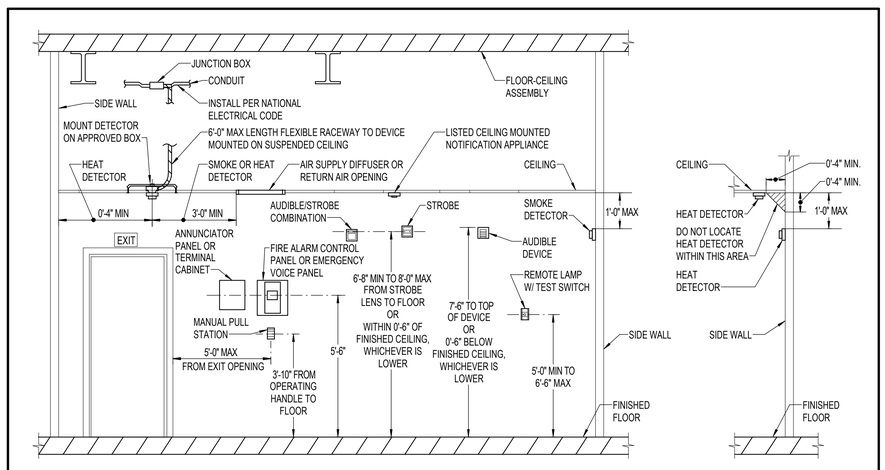
GENERAL FIRE ALARM NOTES

(APPLICABLE TO ALL FIRE ALARM DRAWINGS)

1. DRAWINGS ARE CONCEPTUAL, INTENDED TO SHOW GENERAL SYSTEM CONFIGURATION AND PERFORMANCE. PREPARE SHOP DRAWINGS AND PROVIDE CONDUITS, WIRING, SYSTEM COMPONENTS, AND EQUIPMENT FOR A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH NFPA 70, NFPA 72, NFPA 90A, NFPA 101 IBC, THE AUTHORITY HAVING JURISDICTION, AND THE CONTRACT DOCUMENTS.
2. COORDINATE FIRE ALARM WORK WITH LOCAL FIRE MARSHAL, FIRE ALARM PLANS REVIEW, AND FIRE DEPARTMENT INSPECTORS.
3. OBTAIN AND PAY FOR PERMITS REQUIRED FOR INSTALLATION OF FIRE ALARM SYSTEM. PROVIDE SHOP DRAWING SUBMITTAL DOCUMENTS TO AUTHORITY HAVING JURISDICTION TO OBTAIN PERMIT. SUBMITTAL MUST INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:
   A. SCALED FLOOR PLANS WITH ROOM NAMES AND NUMBERS WHICH INDICATE USE OF ALL ROOMS.
   B. FIRE ALARM DEVICE AND CABLE SYMBOL LEGEND
   C. FLOOR PLAN LAYOUT SHOWING LOCATIONS OF ALL DEVICES AND CONTROL EQUIPMENT, INCLUDING MOUNTING HEIGHTS OF ALARM INITIATING DEVICES AND NOTIFICATION DEVICES.
   D. FIRE ALARM CONTROL PANEL AND ANNUNCIATOR LOCATION.
   E. POWER CONNECTION.
   F. BATTERY CALCULATIONS.
   G. VOLTAGE DROP CALCULATIONS FOR NOTIFICATION APPLIANCE CIRCUITS.
   H. SIZE, TYPE, AND NUMBER OF CONDUCTORS.
   I. MANUFACTURER'S TECHNICAL DATA SHEETS INCLUDING MODEL NUMBERS AND LISTING INFORMATION FOR EQUIPMENT, DEVICES, AND MATERIALS.
   J. DETAILS OF CEILING HEIGHT AND CONSTRUCTION.
   K. INTERFACE OF FIRE SAFETY CONTROL FUNCTIONS.
   L. FIRE ALARM SYSTEM RISER.
   M. SEQUENCE OF OPERATIONS INPUT/OUTPUT MATRIX.
   N. DEVICE TO DEVICE WIRING.
   O. LOUDNESS AND CANDELA SETTINGS FOR EVERY NOTIFICATION APPLIANCE.
4. FIRE ALARM BRANCH CIRCUIT IDENTIFICATION MUST COMPLY WITH NFPA 70 AND NFPA 72:
   - PROVIDE APPROVED RED CIRCUIT BREAKER LOCKOUT DEVICE FOR EACH CIRCUIT BREAKER SERVING A FIRE ALARM CIRCUIT.
   - IDENTIFY EACH FIRE ALARM CIRCUIT WITH A RED PHENOLIC NAMEPLATE WITH WHITE LETTERING. NAMEPLATE MUST READ "FIRE ALARM CIRCUIT". FASTEN NAMEPLATE IN PANELBOARD ADJACENT TO CIRCUIT BREAKER.
5. IDENTIFY POWER SOURCE AND LOCATION OF BRANCH CIRCUIT DISCONNECT SERVING FIRE ALARM EQUIPMENT. FASTEN PHENOLIC NAMEPLATE TO FIRE ALARM SYSTEM PANEL(S) INDICATING LOCATION OF DEDICATED BRANCH CIRCUIT DISCONNECTING MEANS. NAMEPLATE MUST READ "THIS PANEL FED FROM PANEL ____, CIRCUIT NO. ____, LOCATED IN _____."
6. IDENTIFY EACH FIRE ALARM DEVICE AND EQUIPMENT ENCLOSURE. DEVICE LABELS MUST INDICATE ADDRESS AND ZONE.
7. IDENTIFY FIRE ALARM CIRCUITS AT TERMINAL AND JUNCTION LOCATIONS WITH PERMANENT LABELS. PAINT FIRE ALARM CIRCUIT JUNCTION BOX COVERS RED AND LABEL COVER "FIRE ALARM". PAINT CONDUITS CARRYING FIRE ALARM SYSTEM CIRCUITS RED.

FIRE ALARM ABBREVIATIONS

A	AMPERE
ADA	AMERICANS WITH DISIBILITIES ACT
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AGM	ABSORBED GLASS MAT
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIM	ADDRESSABLE INTERFACE MODULE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AWG	AMERICAN WIRE GAUGE
BDA	BI-DIRECTIONAL AMPLIFIER
BLDG	BUILDING
BOD	BASIS OF DESIGN
C	CONDUIT
CB	CIRCUIT BREAKER
CD	CANDELA
CI	CIRCUIT INTEGRITY
CLG	CEILING
CMU	CONCRETE MASONRY UNIT
CO	CARBON MONOXIDE
COMM	COMMUNICATION
CX	CONNECT TO EXISTING
DACT	DIGITAL ALARM COMMUNICATOR TRANSMITTER
DAS	DISTRIBUTED ANTENNA SYSTEM
DB	DECIBEL
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DWG	DRAWING
E	EMERGENCY
ECS	EMERGENCY COMMUNICATIONS SYSTEM
EMR	ELEVATOR MACHINE ROOM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
EQUIP	EQUIPMENT
ERCES	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM
ETR	EXISTING TO REMAIN
EVACS	EMERGENCY VOICE/ALARM COMMUNICATIONS SYSTEM
EX	EXISTING
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FACU	FIRE ALARM CONTROL UNIT
FAID	FIRE ALARM INITIATING DEVICE
FEO	FIREFIGHTERS' EMERGENCY OPERATION
FMC	FLEXIBLE METAL CONDUIT
FSAE	FIRE SERVICE ACCESS ELEVATOR
FT	FEET
G	GROUND
GND	GROUND
GW	GROUND WIRE
HLI	HIGH LEVEL INTERFACE
HVAC	HEATING VENTILATING AIR CONDITIONING
HVI	HEARING AND VISUALLY IMPAIRED
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
IDC	INITIATING DEVICE CIRCUIT
IEBC	INTERNATIONAL EXISTING BUILDING CODE
IFC	INTERNATIONAL FIRE CODE
IN	INCH
JB	JUNCTION BOX
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
MAX	MAXIMUM
MI	MINERAL INSULATED
MIN	MINIMUM
MNS	MASS NOTIFICATION SYSTEM
MTD	MOUNTED
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NCP	NETWORK CONTROL PANEL
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS' ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NIC	NOT IN CONTRACT
NICET	NATIONAL INSTITUTE FOR CERTIFICATION IN ENGINEERING TECHNOLOGIES
NO	NUMBER, NORMALLY OPEN
NPLFA	NON-POWER LIMITED FIRE ALARM
NTS	NOT TO SCALE
OC	ON CENTER
OEE	OCCUPANT EVACUATION ELEVATOR
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE, PHASE
PA	PUBLIC ADDRESS
PC	PERSONAL COMPUTER
PH	PHASE
PLC	POWER LIMITED CIRCUIT
PLFA	POWER-LIMITED FIRE ALARM
POE	POWER OVER ETHERNET
PVC	POLYVINYL CHLORIDE
PWR	POWER
QTY	QUANTITY
R	RACEWAY
RA	RETURN AIR
RM	ROOM
RTU	ROOF TOP UNIT
RX	REMOVE EXISTING
SA	SUPPLY AIR
SF	SQUARE FEET
SLC	SIGNALING LINE CIRCUIT
SPD	SURGE PROTECTION DEVICE
TYP	TYPICAL
UG	UNDERGROUND
UL	UNDERWRITER'S LABORATORY
UON	UNLESS OTHERWISE NOTED
V	VOLTS
VESDA	VERY EARLY SMOKE DETECTION APPARATUS
VEWFD	VERY EARLY WARNING FIRE DETECTION
VRLA	VALVE REGULATED LEAD ACID
W	WIRE, WATTS
W/	WITH
WP	WEATHERPROOF



NOTE: MOUNT FIRE ALARM DEVICES ON APPROVED BOXES.

HEAT DETECTOR MOUNTING PLACEMENT REQUIREMENTS

1 / FA001 N.T.S. FIRE ALARM DEVICE MOUNTING DETAIL

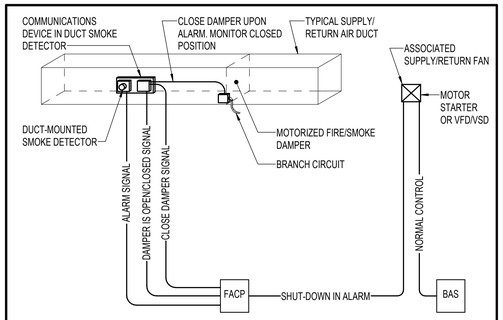
FIRE ALARM LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
CEILING / WALL	FIRE ALARM SYSTEM - SMOKE DETECTOR - AREA - CEILING/WALL MOUNT SUBSCRIPTS: P: PHOTOELECTRIC TYPE (DEFAULT IF NO SUBSCRIPT INDICATED) I: IONIZATION TYPE: DH: DOOR HOLD RELEASE FUNCTION	- - / SEE DETAIL
	FIRE ALARM SYSTEM - SMOKE DETECTOR, DUCT DETECTOR WITH SAMPLING TUBE. SUBSCRIPT IDENTIFIES EQUIPMENT TO BE CONTROLLED FOR SHUTDOWN	- -
	FIRE ALARM SYSTEM - SMOKE DAMPER WITH DUCT SMOKE DETECTOR WITH 120V POWER CONNECTION TO DAMPER	- -
	FIRE ALARM SYSTEM - FIRE/SMOKE DAMPER WITH DUCT SMOKE DETECTOR. WITH 120V POWER CONNECTION TO DAMPER	- -
CEILING / WALL	FIRE ALARM SYSTEM - HEAT DETECTOR - CEILING/WALL MOUNT SUBSCRIPTS: F: FIXED TEMPERATURE (DEFAULT IF NO SUBSCRIPT INDICATED) R: RATE OF RISE RIC: RATE COMPENSATION RIF: COMBINATION RATE OF RISE	- - / SEE DETAIL
CEILING / WALL	FIRE ALARM SYSTEM - STROBE - CEILING/WALL MOUNT SUBSCRIPTS: C: CO ALARM NOTIFICATION DEVICE WP: WEATHERPROOF WG: WIRE GUARD	- - / 86"
CEILING / WALL	FIRE ALARM SYSTEM - LOUDSPEAKER - CEILING/WALL MOUNT SUBSCRIPTS: WP: WEATHERPROOF WG: WIRE GUARD	- - / 86"
CEILING / WALL	FIRE ALARM SYSTEM - LOUDSPEAKER STROBE - CEILING/WALL MOUNT SUBSCRIPTS: WP: WEATHERPROOF WG: WIRE GUARD	- - / 86"
PS	FIRE ALARM SYSTEM - SPRINKLER FLOW DETECTION SWITCH	- -
TS	FIRE ALARM SYSTEM - VALVE WITH TAMPER DETECTION SWITCH	- -
M	FIRE ALARM SYSTEM - MANUAL FIRE ALARM BOX	46"
AM	FIRE ALARM SYSTEM - ADDRESSABLE MODULE	- -
FADC	FIRE ALARM SYSTEM - FIRE ALARM DOCUMENTATION CABINET	- -
FACP	FIRE ALARM SYSTEM - FIRE ALARM CONTROL PANEL	78" TO TOP
FAAP	FIRE ALARM SYSTEM - FIRE ALARM SYSTEM ANNUNCIATOR PANEL	78" TO TOP
DACT	FIRE ALARM SYSTEM - FIRE ALARM DIGITAL ALARM COMMUNICATOR TRANSMITTER	78" TO TOP
FRZ	FIRE ALARM SYSTEM - ROOM TEMPERATURE SWITCH	- -

FIRE ALARM CONVENTIONS

FIRE ALARM

15cd — CANDELA RATING
DEVICE TYPE



NOTES (APPLICABLE TO THIS DETAIL ONLY):

1. UNDER ALARM, FIRE ALARM SIGNAL SHALL OVERRIDE BAS. WHEN FIRE ALARM IS RESET, IT SHALL RELEASE CONTROL OF FAN BACK TO BAS.
2. FAN SHALL BE INTERLOCKED WITH DAMPER FOR DAMPER TO CLOSE WHEN FAN IS NOT RUNNING.

2 / FA001 N.T.S. FIRE/SMOKE DAMPER SMOKE DETECTOR

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Signature _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

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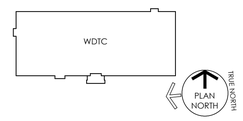
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
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	BID DOCUMENTS	11/06/2026

CAD DWG FILE:	
DRAWN BY:	WC
CHK'D BY:	NTS

JOB NUMBER:	25909 - DGS# CC-10-MC25-488
ISSUE DATE:	11/06/2026

SHEET TITLE:

FIRE ALARM COVER SHEET

SHEET NUMBER:

FA001

SHEET 98 OF 172

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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, FIRE ALARM ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. FIRE ALARM ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) FOR SPRINKLER FLOW NOTIFICATION. EXTERIOR NOTIFICATION APPLIANCE MUST ONLY ACTIVATE UPON SPRINKLER FLOW. PROVIDE SEPARATE ZONE FOR NOTIFICATION APPLIANCE. DEVICE MUST HAVE THE CAPABILITY TO REMAIN ON DURING SPRINKLER TESTING.

(2) CONTROL RELAY FOR FIRE ALARM INTERFACE WITH AV SYSTEM. MUTE AV SYSTEM UPON INPUT FROM FIRE ALARM SYSTEM.

(3) MONITOR MODULES FOR SUPERVISION OF THE FOLLOWING POINTS ON THE EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM.
- A. POWER SUPPLY LOSS OF NORMAL AC POWER.
- B. ACTIVE RF-EMITTING DEVICE FAILURE.
- C. SIGNAL SOURCE/DONOR ANTENNA MALFUNCTION.
- D. POWER SUPPLY LOW BATTERY CAPACITY - 70% DEPLETED.
- E. POWER SUPPLY FAILURE OF BATTERY CHARGER.
- F. ACTIVE SYSTEM COMPONENT FAILURE (CRITICAL SYSTEM COMPONENTS).
- G. COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE ERCES.
- H. OSCILLATION OF ACTIVE RF-EMITTING DEVICES.

(4) MONITOR MODULES FOR SUPERVISION OF TEMPERATURE SENSORS ON CLERESTORY LEVEL.

(5) ADDRESSABLE RELAY TO INITIATE COMMUNICATIONS FROM ACCESS CONTROL SYSTEM TO CAMPUS SECURITY OFFICE.



1 FA101 FIRST FLOOR - FIRE ALARM - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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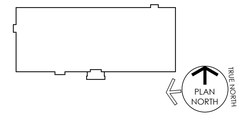
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

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Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR PLAN - FIRE ALARM - NEW WORK

SHEET NUMBER:

FA101

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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) LOCATE ROOM TEMPERATURE SENSOR ADJACENT TO SPRINKLER PIPE.



1 / FA102 CLERESTORY PLAN - FIRE ALARM - NEW WORK
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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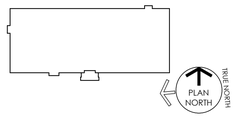
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CLERESTORY PLAN - FIRE ALARM NEW WORK

SHEET NUMBER:

FA102

SHEET 100 OF 172

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SYSTEM OUTPUTS

CONTROL UNIT ANNUNCIATION | NOTIFICATION | EMERGENCY CONTROL FUNCTION | SUPPLEMENTARY

	SYSTEM INPUTS	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	
		ACTUATE COMMON ALARM SIGNAL INDICATOR	ACTUATE AUDIBLE ALARM SIGNAL	ACTUATE COMMON SUPERVISORY SIGNAL INDICATOR	ACTUATE AUDIBLE SUPERVISORY SIGNAL	ACTUATE COMMON TROUBLE SIGNAL INDICATOR	ACTUATE AUDIBLE COMMON TROUBLE SIGNAL	ACTUATE ASSOCIATED FLOOR ALARM INDICATOR	RECORD INFORMATION ON CPU	DISPLAY DEVICE ADDRESS AT CONTROL UNIT	ACTUATE AUDIBLE AND VISUAL EVACUATION SIGNALS	-	-	TRANSMIT FIRE ALARM SIGNAL TO SUPERVISING STATION	TRANSMIT SUPERVISORY SIGNAL TO SUPERVISING STATION	TRANSMIT TROUBLE SIGNAL TO SUPERVISING STATION	ACTUATE EXTERIOR AUDIBLE/VISUAL SIGNAL		CLOSE ASSOCIATED FIRE/SMOKE DAMPER	CLOSE ASSOCIATED SMOKE DAMPER	MUTE AV SOUND SYSTEM											DISPLAY DEVICE ADDRESS AT REMOTE LCD ANNUNCIATOR	PROVIDE OUTPUT SIGNAL TO ACCESS CONTROL SYSTEM							
1	MANUALFIRE ALARM BOX	•	•						•	•	•			•			•				•											•	•							1
2	AREA SMOKE DETECTOR	•	•						•	•	•			•			•				•											•	•							2
3	FIRE ALARM SYSTEM AC POWER FAILURE					•	•		•	•						•																•								3
4	FIRE ALARM SYSTEM LOW BATTERY					•	•		•	•						•																•								4
5	FIRE ALARM SYSTEM OPEN CIRCUIT					•	•		•	•						•																•								5
6	FIRE ALARM SYSTEM GROUND FAULT					•	•		•	•						•																•								6
7	FIRE ALARM SYSTEM NOTIFICATION APPLIANCE SHORT CIRCUIT					•	•		•	•						•																•								7
8	SPRINKLER WATER FLOW SWITCH	•	•						•	•	•						•				•											•	•							8
9	SPRINKLER VALVE TAMPER SWITCH			•	•				•	•					•																	•								9
10	SMOKE DETECTOR AT FIRE SMOKE DAMPER			•	•				•	•					•				•	•												•								10
11	POST INDICATOR VALVE TAMPER SWITCH			•	•				•	•					•																	•								11
12	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - POWER SUPPLY LOSS OF NORMAL AC POWER			•	•				•	•					•																	•								12
13	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM -ACTIVE RF-EMITTING DEVICE FAILURE			•	•				•	•					•																	•								13
14	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - SIGNAL SOURCE/DONOR ANTENNA MALFUNCTION			•	•				•	•					•																	•								14
15	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - POWER SUPPLY LOW BATTERY CAPACITY - 70% DEPLETED			•	•				•	•					•																	•								15
16	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - POWER SUPPLY FAILURE OF BATTERY CHARGER			•	•				•	•					•																	•								16
17	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - ACTIVE SYSTEM COMPONENT FAILURE (CRITICAL SYSTEM COMPONENTS)			•	•				•	•					•																	•								17
18	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - COMMUNICATIONS LINK BETWEEN THE FIRE ALARM SYSTEM AND THE ERCES			•	•				•	•					•																	•								18
19	EMERGENCY RESPONDER COMMUNICATIONS ENHANCEMENT SYSTEM - OSCILLATION OF ACTIVE RF-EMITTING DEVICES			•	•				•	•					•																	•								19
		A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	BB	CC	DD	EE	FF	GG	HH	II	JJ	KK	LL	

1 / FA501 FIRE ALARM SEQUENCE OF OPERATIONS MATRIX
N.T.S.

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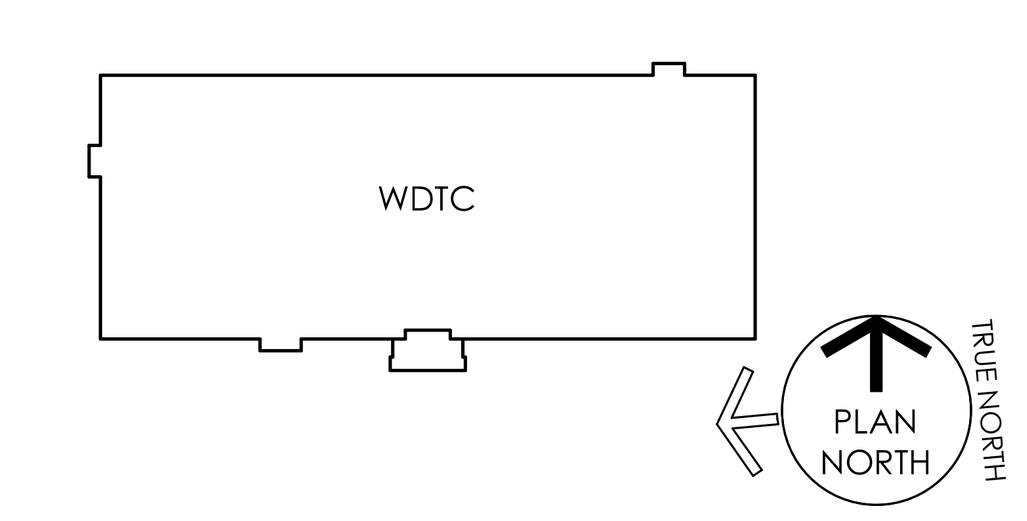
12401 WILLOWBROOK RD, SE
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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NTS

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SHEET TITLE:

FIRE ALARM INPUT/OUTPUT MATRIX

SHEET NUMBER:

FA501

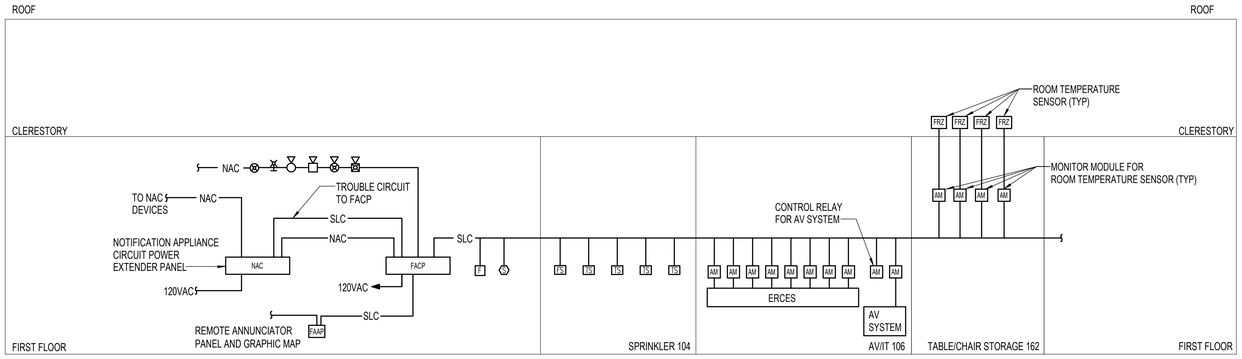
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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. FIRE ALARM SYSTEM RISER DIAGRAM IS DIAGRAMMATIC. PROVIDE CONDUIT, WIRING, AND SYSTEM COMPONENTS FOR A COMPLETE AND OPERATIONAL SYSTEM IN COMPLIANCE WITH NFPA 70, NFPA 72, NFPA 90A, NFPA 101, IBC, THE LOCAL AUTHORITY HAVING JURISDICTION AND THE CONTRACT DOCUMENTS.
2. REFER TO FLOOR PLANS FOR QUANTITIES AND LOCATIONS OF FIRE ALARM DEVICES AND COMPONENTS. INSTALL PULL STATIONS SHOWN ADJACENT TO EXTERIOR DOORS WITHIN 5'-0" HORIZONTALLY OF DOOR OPENINGS. FIELD COORDINATE ACTUAL LOCATION AND SPACING OF INITIATING AND NOTIFICATION DEVICES AND CONDUIT RUNS WITH OTHER WORK INCLUDING BUT NOT LIMITED TO LUMINAIRES, DIFFUSERS, DUCT WORK, WALLS AND CEILINGS.
3. FIRE ALARM WIRING MUST BE INSTALLED IN RIGID METAL CONDUIT OR ELECTRICAL METALLIC TUBING.



1 FA601 FIRE ALARM RISER DIAGRAM
N.T.S.

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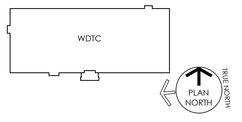
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FIRE ALARM RISER DIAGRAM

SHEET NUMBER:

FA601

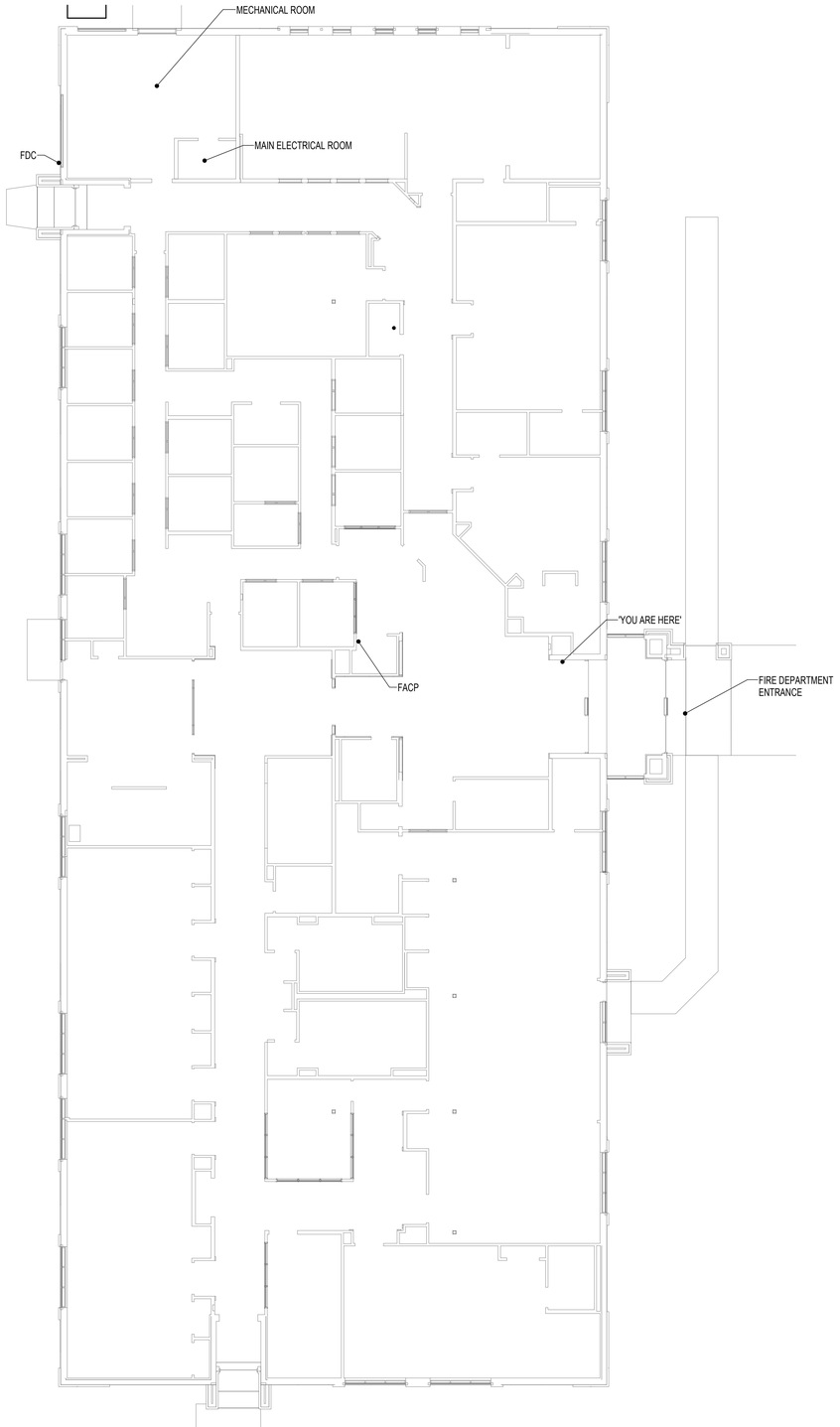
SHEET 102 OF 172

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11/5/2026 2:49:45 PM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/HA-25-A009 - Electrical Central (2025).rvt

ROOM NO	DESCRIPTION	1 HOUR ALERT AND INTELLIGIBLE VOICE MESSAGES	1 HOUR ALERT AND VISUAL VOICE INTELLIGIBILITY WILL BE LESS THAN MIN. AREAS	PERIODICALLY UNOCCUPIED SPACES - TEMP 4 ALARM AREAS LOCK MAY NOT BE INTELLIGIBLE	OCCUPIED SPACES - MAXIMUM NOTIFICATION NOT TO EXCEED 10 SECONDS	CLOSETED CLASSROOM - MINIMUM 75 dBA	PUBLIC AREAS (TOILET) 90 dBA	
100	VESTIBULE ADDITION				X	45	60	
102	LOBBY		X		X	45	60	
103	RECEPTION (WORK STATION)		X			45	60	
103A	WORKSTATION		X			45	60	
104	SPRINKLER				X	45	60	
106	AV/IT			X		45	60	
107	FAMILY		X			45	60	
108	PHARMACY TECH LAB	X	X			45	60	
109	STORAGE				X	45	60	
110	STORAGE				X	45	60	
111	NURSING LAB	X				45	60	
112	TOILET			X		45	60	
113	PREP/UTILITY				X	45	60	
114	COSMETOLOGY LAB		X			45	60	
117	MECHANICAL			X		45	60	
117A	ELECTRICAL			X		45	60	
119	EXISTING VESTIBULE				X	45	60	
120	CLASSROOM	X				45	60	
122	ELECTRICAL			X		45	60	
123	OFFICE		X			45	60	
124	OFFICE		X			45	60	
125	OFFICE		X			45	60	
126	OFFICE		X			45	60	
127	OFFICE		X			45	60	
128	OFFICE		X			45	60	
129	OFFICE		X			45	60	
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137	OFFICE		X			45	60	
138	OFFICE		X			45	60	
139	OFFICE		X			45	60	
140	WORKSTATION		X			45	60	
141	WORKSTATION		X			45	60	
144	KITCHEN CATER		X			45	60	
144A	ELECTRICAL				X	45	60	
145	KITCHEN LAB		X			45	60	
146	FLEX CLASSROOM	X				45	60	
147	FLEX CLASSROOM	X				45	60	
148	FLEX CLASSROOM	X				45	60	
149	FLEX CLASSROOM	X				45	60	
150	AV				X	45	60	
151	STORAGE					X	45	60
152	STORAGE					X	45	60
153	STORAGE					X	45	60
154	STORAGE					X	45	60
155	AV				X		45	60
156	SEMINAR		X				45	60
157	SEMINAR		X				45	60
158	WOMEN	X					45	60
159	MEN	X					45	60
160	LACTATION	X					45	60
161	SEMINAR		X				45	60
162	TABLE/CHAIR STORAGE					X	45	60
163	EXISTING VESTIBULE					X	45	60
164	AV				X		45	60
165	AV				X		45	60
166	COMMUNITY-BASED TRANSITION PROGRAM	X					45	60
167	TOILET				X		45	60
168	STORAGE					X	45	60
169	FLEX CLASSROOM	X					45	60
170	FLEX CLASSROOM	X					45	60
171	FLEX CLASSROOM	X					45	60
172	CORRIDOR		X				45	60
173	CORRIDOR		X				45	60
174	CORRIDOR		X				45	60
176	HALL		X				45	60
177	CORRIDOR		X				45	60
178	CORRIDOR		X				45	60
180	HALL		X				45	60

2 FA701 FIRE ALARM AUDIBLE SIGNALING SCHEDULE
1/8" = 1'-0"



FIRE ALARM GRAPHIC MAP

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

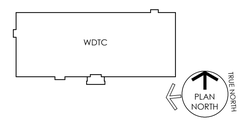
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:
FIRE ALARM GRAPHIC MAP

SHEET NUMBER:
FA701
SHEET 103 OF 172

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FIRE PROTECTION ABBREVIATIONS

(APPLICABLE TO ALL FIRE PROTECTION DRAWINGS)

AFF	ABOVE FINISHED FLOOR
BFP	BACKFLOW PREVENTER
COR	CONTRACTING OFFICER'S REPRESENTATIVE
D	DRAIN
DIA	DIAMETER
DN	DOWN
EX	EXISTING
F	FIRE / FIRE LINE
FDC	FIRE DEPARTMENT CONNECTION
FDV	FIRE DEPARTMENT VALVE
FH	FIRE HYDRANT / FIRE HOSE
FHC	FIRE HOSE CABINET
FP	FIRE PROTECTION
FS	FLOW SWITCH
GPM	GALLON PER MINUTE
HP	HORSEPOWER
HZ	HERTZ
MER	MECHANICAL EQUIPMENT ROOM
N	NORTH
NO	NUMBER
NPSH	NET POSITIVE SUCTION HEAD
NPSHA	NET POSITIVE SUCTION HEAD AVAILABLE
NPSHR	NET POSITIVE SUCTION HEAD REQUIRED
P	PIPE / PRESSURE / PUMP
PH	PHASE
PSI	PRESSURE - POUNDS PER SQUARE INCH
PSIG	PRESSURE - POUNDS PER SQUARE INCH, GAGE
QTY	QUANTITY
RPM	REVOLUTIONS PER MINUTE
RX	REMOVE EXISTING
SP	SPRINKLER PIPING
TS	TAMPER SWITCH
TYP	TYPICAL
V	VOLTS
W/	WITH

FIRE PROTECTION LEGEND

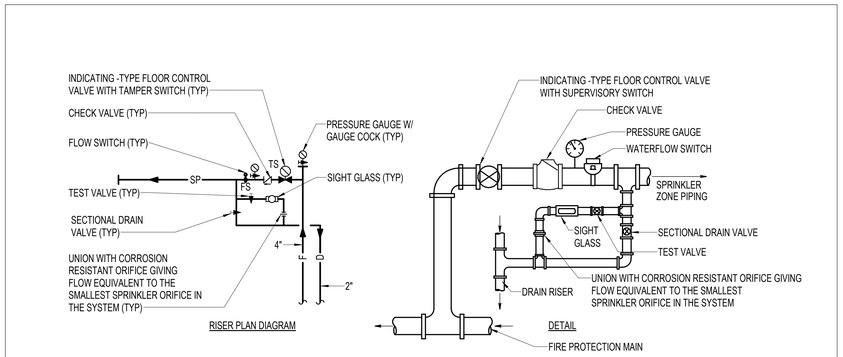
(APPLICABLE TO ALL FIRE PROTECTION/ DRAWINGS)

SYMBOL	DESCRIPTION
D	CONDENSATE DRAIN
	CONNECT TO EXISTING
	END POINT OF REMOVAL OF EXISTING
1 FP-101	PLAN/ SECTION DESIGNATION TOP - PLAN/ SECTION REFERENCE, BOTTOM - REFERENCED DRAWING
	PIPE BREAK - SINGLE LINE
	SHUTOFF VALVE
F	FIRE LINE
SP	SPRINKLER PIPING
	ALARM CHECK VALVE
	FIRE SERVICE CHECK VALVE
	FLOW ALARM SWITCH
	SUPERVISED VALVE
	FIRE DEPARTMENT CONNECTION
	FIRE SERVICE DOUBLE CHECK BACKFLOW PREVENTER

GENERAL FIRE PROTECTION NOTES

(APPLICABLE TO ALL FIRE PROTECTION DRAWINGS)

1. PRIOR TO SUBMITTING SHOP DRAWINGS TO COR FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, COORDINATE ELECTRICAL REQUIREMENTS BETWEEN CONTRACTORS OF ALL TRADES ASSOCIATED WITH THE INSTALLATION. THE GENERAL CONTRACTOR'S STAMP ON THE SUBMITTAL MUST STATE THAT COORDINATION BETWEEN ALL TRADES HAS BEEN VERIFIED AND THAT THE SUBMITTAL HAS BEEN APPROVED FOR COR'S REVIEW. IF CONTRACTOR SUBMITS EQUIPMENT WITH POWER REQUIREMENTS THAT ARE DIFFERENT FROM POWER CONNECTION INDICATED ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST PROVIDE A REASON FOR THE CHANGE AND WRITTEN CONFIRMATION THAT THE CHANGE HAS BEEN FULLY COORDINATED WITH ALL ASSOCIATED TRADES. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO ELECTRICAL CONNECTION, COORDINATE AND MAKE REQUIRED CHANGES TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH ALL ASSOCIATED TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT SUBMITTALS AMONG THE SUBCONTRACTORS, NOT THE COR'S.
2. PROVIDE AN AUTOMATIC SPRINKLER SYSTEM THROUGHOUT THE BUILDING INCLUDING WATER FLOW ALARM SWITCH, VALVE SUPERVISORY SWITCHES, CHECK VALVES, CONTROL VALVES, BACKFLOW PREVENTER DEVICE, PIPING, HANGERS, SPRINKLERS, AND ALL ASSOCIATED EQUIPMENT. ALL WORK AND INSTALLATION MUST COMPLY WITH THE REQUIREMENTS OF NFPA 13, IBC, LOCAL AND STATE AUTHORITIES AND THE SPECIFICATIONS.
3. SPRINKLER SYSTEM FOR THIS PROJECT MUST BE HYDRAULICALLY DESIGNED AND INSTALLED IN ACCORDANCE WITH NFPA 13.
4. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS BEFORE PROCEEDING WITH FABRICATION AND INSTALLATION OF WORK.
5. SPRINKLER SYSTEM MUST BE A SINGLE WET PIPE TYPE THROUGHOUT THE ENTIRE FACILITY.
6. COORDINATE CONNECTION OF SPRINKLER FLOW AND SUPERVISORY DEVICES WITH FIRE ALARM DRAWINGS.
7. OBTAIN ALL NECESSARY PERMITS AND APPROVALS PRIOR TO CONDUCTING WELDING AND CUTTING OPERATIONS.
8. MAINTAIN MINIMUM UNOBSTRUCTED PASSAGEWAY MEASURING NOT LESS THAN 36 INCHES WIDE AND 80 INCHES HIGH THROUGHOUT ACCESS ROUTES IN MECHANICAL AND ELECTRICAL ROOMS.
9. UNLESS OTHERWISE NOTED, INSTALL PIPING OVERHEAD, TIGHT TO UNDERSIDE OF STRUCTURE, WITH SPACE FOR INSULATION AS REQUIRED.
10. INSTALL EXPOSED PIPING TO MAXIMIZE AESTHETICS AND MINIMIZE OBSTRUCTION TO OCCUPANTS. INSTALL PIPING AND VALVES TIGHT TO CEILINGS AND WALLS AS MUCH AS PRACTICAL WITH SPACE TO REMOVE ACCESSIBLE CEILINGS. COORDINATE PIPING WITH OTHER TRADES. PRIOR TO INSTALLATION, SUBMIT DRAWINGS TO COR FOR APPROVAL.
11. INSTALL PIPING SO THAT ALL VALVES ARE ACCESSIBLE.
12. COORDINATE FIRE PROTECTION WORK WITH THE WORK OF OTHER TRADES SHOWN ON OTHER DRAWINGS.
13. COORDINATE EXACT SPRINKLER LOCATIONS WITH LIGHTING FIXTURES, DIFFUSERS, GRILLES, DUCTS, STRUCTURAL MEMBERS, LOUDSPEAKERS, AND OTHER DEVICES AND OBSTRUCTIONS ENCOUNTERED.
14. SPRINKLERS INSTALLED IN PROXIMITY TO DUCTS AND OTHER OBSTRUCTIONS MUST BE LOCATED TO MINIMIZE OBSTRUCTION TO DISCHARGE IN ACCORDANCE WITH NFPA 13.
15. PROVIDE SPRINKLER COVERAGE AROUND FIXED OBSTRUCTIONS, SUCH AS LARGE DUCTS, CLOUD CEILINGS, ETC. IN ACCORDANCE WITH NFPA 13.
16. LOCATE SPRINKLERS IN ACCORDANCE WITH NFPA 13. PROVIDE ADDITIONAL SPRINKLERS TO SATISFY REQUIREMENTS OF SYMMETRY AND AESTHETICS.
17. INSTALL SPRINKLER PIPING SO THAT ALL PORTIONS CAN BE DRAINED BACK THROUGH DRAIN VALVES.
18. CERTAIN ITEMS SUCH AS RISES AND DROPS IN PIPING ARE INDICATED ON THE DRAWINGS FOR CLARITY OR A SPECIFIC LOCATION REQUIREMENT AND MUST NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE ITEMS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THESE ITEMS AS REQUIRED ELSEWHERE IN THE CONTRACT DOCUMENTS.
19. PATCH PENETRATIONS THROUGH FIRE RATED ASSEMBLIES WITH APPROVED FIRE STOPPING MATERIAL TO MAINTAIN THE RATING OF THE ASSEMBLY.
20. CONCEAL ALL SPRINKLER PIPING IN AREAS PROVIDED WITH SUSPENDED CEILINGS.
21. REFER TO ARCHITECTURAL PLANS AND INTERIOR FINISH SCHEDULES FOR ALL CEILING HEIGHTS.
22. PROTECT SPRINKLERS SUBJECT TO MECHANICAL DAMAGE WITH LISTED GUARDS IN ACCORDANCE WITH NFPA 13.
23. DO NOT CUT, DRILL, BURN OR MODIFY STRUCTURAL MEMBERS AND SYSTEMS.
24. ARRANGE FOR APPROVAL OF SPRINKLER SYSTEM AND CONDUCT TESTS IN ACCORDANCE WITH NFPA 13.
25. SUBMIT FULLY COORDINATED SHOP DRAWINGS, HYDRAULIC CALCULATIONS, AND MANUFACTURER'S DATA SHEETS TO ENGINEER FOR APPROVAL BEFORE PURCHASE AND INSTALLATION. COORDINATE FINAL DESIGN OF THE SYSTEM WITH THE COR, FIELD CONDITIONS, AND AVAILABLE WATER SUPPLY.
26. PROVIDE ALL NECESSARY PARTS AND ACCESSORIES EVEN THOUGH THE PARTS AND ACCESSORIES ARE NOT SPECIFICALLY MENTIONED OR SHOWN HEREIN.
27. THE SPRINKLER SYSTEM MUST BE SUBJECTED TO A HYDROSTATIC PRESSURE TEST IN ACCORDANCE TO NFPA 13.
28. PROVIDE PIPE HANGERS IN ACCORDANCE WITH NFPA 13. HANGER MATERIALS MUST BE UL LISTED AND FM APPROVED.



SPRINKLER ZONE ASSEMBLY

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
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	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRE PROTECTION COVER SHEET

SHEET NUMBER:

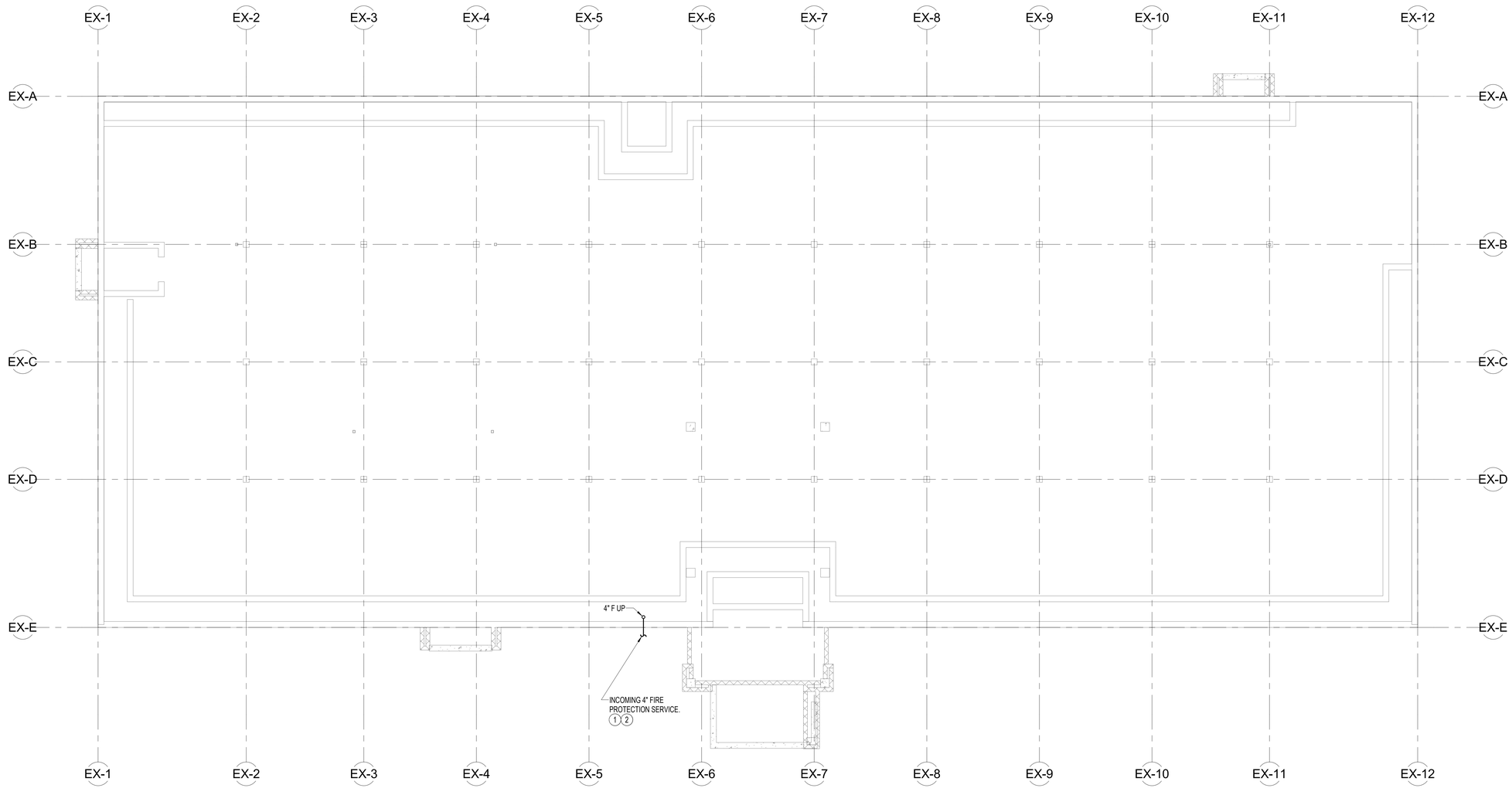
FP-001

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DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS IN WRITING TO THE COR FOR RESOLUTION AND AWAIT WRITTEN DIRECTIONS BEFORE PROCEEDING. 2. PIPE SIZES INDICATED ON THE PLAN ARE FOR INFORMATION ONLY. ALL SPRINKLER PIPING SHALL BE HYDRAULICALLY SIZED BY THE SPRINKLER CONTRACTOR.	(1) SEE CIVIL DRAWINGS FOR CONTINUATION. (2) INV EL 656.67' +/-



1 FP-100 FOUNDATION - FIRE PROTECTION - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

11/6/2026 4:37:08 PM Autodesk Docs://25909 Allegany College of MD ACAH VITDC Renovation/H4-25-A009 - Mechanical Central (2025).rvt

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PROJECT ADDRESS

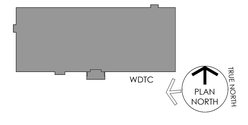
12401 WILLOWBROOK RD, SE
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DRAWN BY: EKD
CHK'D BY: SRH

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ISSUE DATE: **11/06/2026**
SHEET TITLE:

FOUNDATION - FIRE PROTECTION - NEW WORK PLAN

SHEET NUMBER:

FP-100

SHEET 105 OF 172

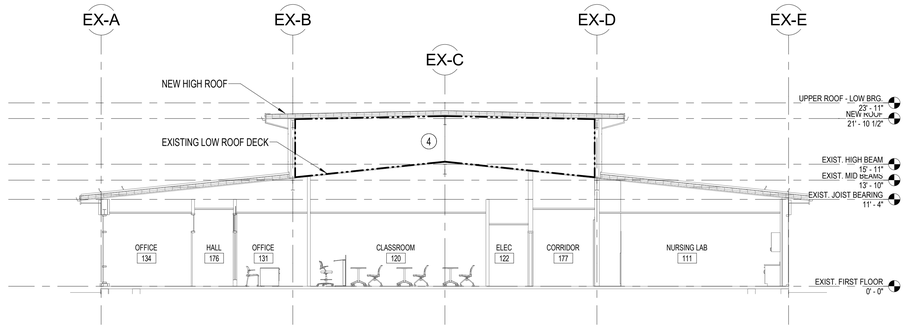
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DRAWING NOTES:
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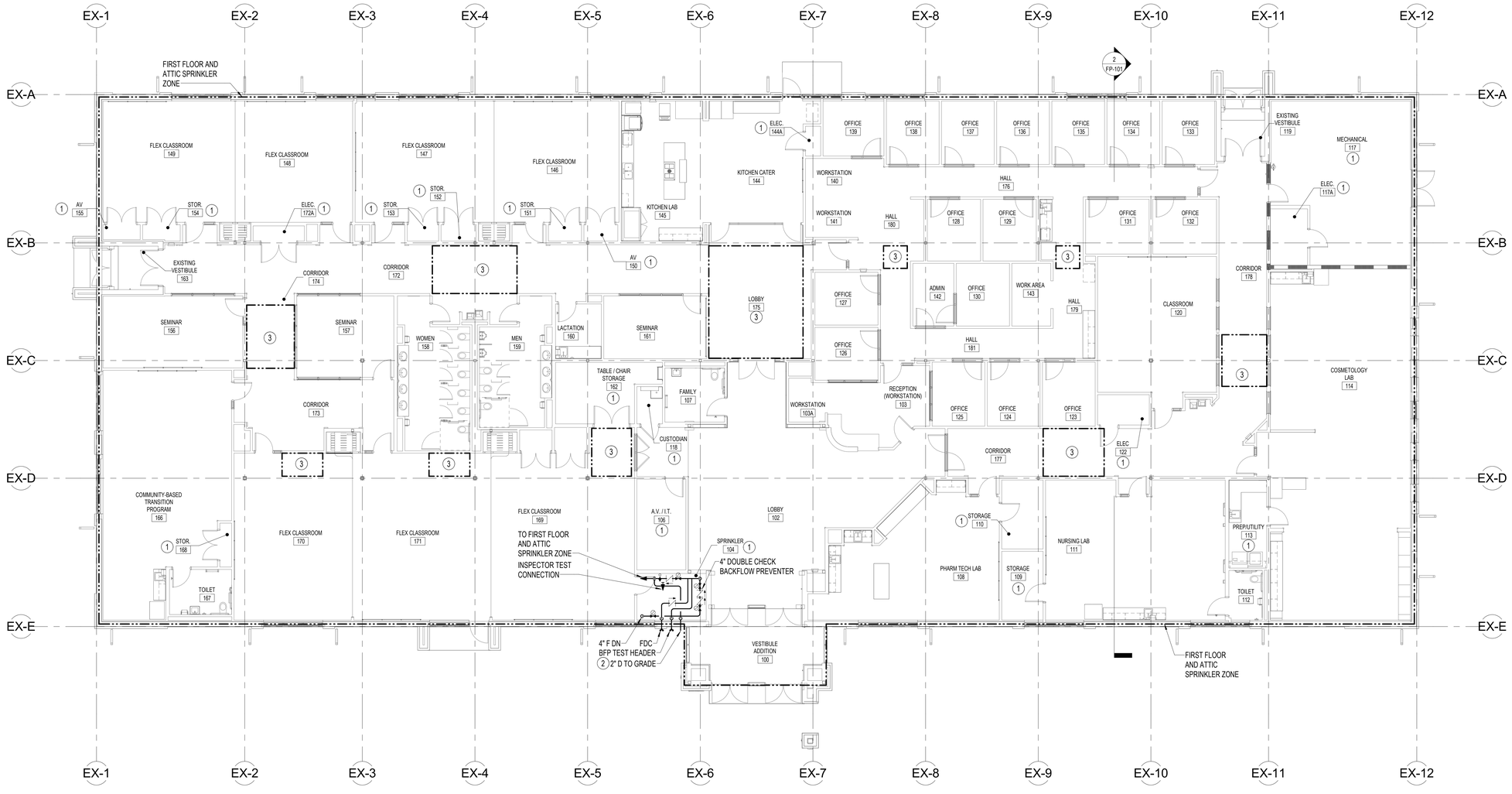
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2. PROVIDE CONCEALED SPRINKLERS IN ALL SPACES WITH A CEILING UNLESS OTHERWISE NOTED.
3. PROVIDE CONCEALED SPRINKLERS WITH FACTORY FINISHED COVER PLATE WITH COLOR SELECTED BY THE COR.
4. PIPE SIZES INDICATED ON THE PLAN ARE FOR INFORMATION ONLY. ALL SPRINKLER PIPING SHALL BE HYDRAULICALLY SIZED BY THE SPRINKLER CONTRACTOR. UNLESS OTHERWISE INDICATED, SPRINKLER PROTECTION SHALL BE IN ACCORDANCE WITH LIGHT HAZARD OCCUPANCY REQUIREMENTS.

SPECIAL NOTES:
(APPLICABLE TO THIS DRAWING ONLY)

1. ORDINARY HAZARD GROUP 1.
2. TERMINATE 2" D APPROXIMATELY 1 FT ABOVE GRADE WITH 90 DEGREE ELBOW DN ONTO CONCRETE SPLASH BLOCK.
3. PROTECT LIGHT WELL WITH SIDEWALL SPRINKLERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. PIPING SHALL NOT RUN THROUGH LIGHT WELL.
4. PROTECT VOID SPACE BETWEEN EXISTING LOW ROOF DECK AND NEW HIGH ROOF WITH SPRINKLERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



2 FP-101 — VOID SPACE - FIRE PROTECTION - NEW WORK SECTION
1/8" = 1'-0"



1 FP-101 — FIRST FLOOR - FIRE PROTECTION - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" — 0 4 8 16 24 FT

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

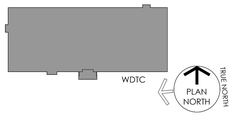
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEDMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: EKD
CHK'D BY: SRH

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR - FIRE PROTECTION - NEW WORK PLAN

SHEET NUMBER:

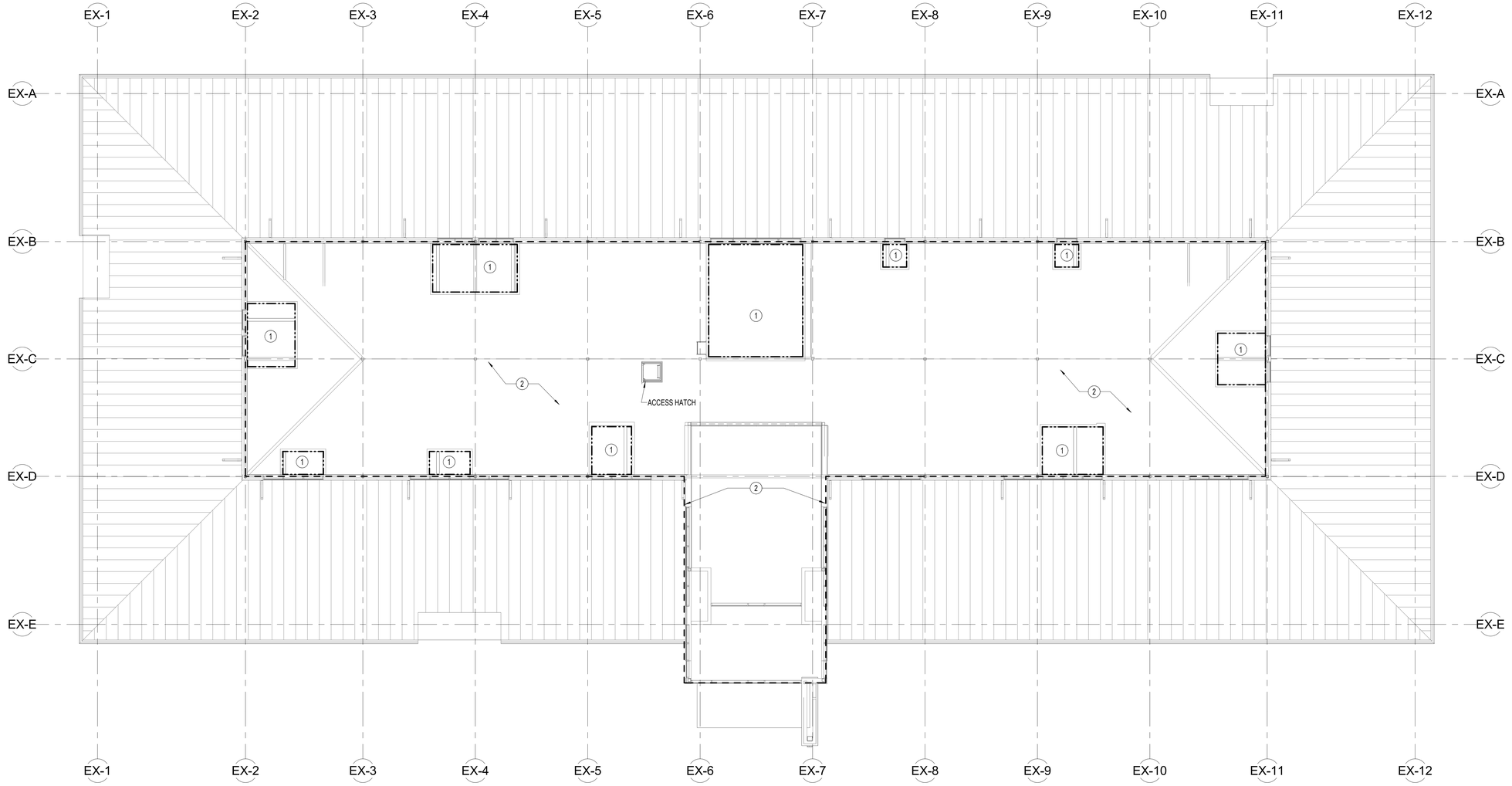
FP-101

SHEET 106 OF 172

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11/5/2026 4:37:11 PM Autodesk Docs://25909 Allegany College of MD ACAA VITDC Renovation/HA-25-A009 - Mechanical Central (2025).rvt

DRAWING NOTES: (APPLICABLE TO THIS DRAWING ONLY)	SPECIAL NOTES: (APPLICABLE TO THIS DRAWING ONLY)
1. ALL ITEMS THAT REQUIRE ACCESS FOR OPERATING, CLEANING, SERVICING, MAINTENANCE, AND CALIBRATION, SHALL BE EASILY AND SAFELY ACCESSIBLE. EXAMPLES OF THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO: ALL TYPES OF VALVES, STRAINERS, TRANSMITTERS, AND CONTROL DEVICES. PRIOR TO COMMENCING INSTALLATION WORK, REFER CONFLICTS BETWEEN THIS REQUIREMENT AND CONTRACT DRAWINGS IN WRITING TO THE OWNER FOR RESOLUTION AND AWAIT WRITTEN DIRECTIONS BEFORE PROCEEDING. 2. PROVIDE CONCEALED SPRINKLERS IN ALL SPACES WITH A CEILING UNLESS OTHERWISE NOTED. 3. PROVIDE CONCEALED HEADS WITH FACTORY FINISHED COVER PLATE WITH COLOR SELECTED BY THE COR. 4. PIPE SIZES INDICATED ON THE PLAN ARE FOR INFORMATION ONLY. ALL SPRINKLER PIPING SHALL BE HYDRAULICALLY SIZED BY THE SPRINKLER CONTRACTOR. UNLESS OTHERWISE INDICATED, SPRINKLER PROTECTION SHALL BE IN ACCORDANCE WITH LIGHT HAZARD OCCUPANCY REQUIREMENTS.	(1) PROTECT LIGHT WELL WITH SIDEWALL SPRINKLERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION. PIPING SHALL NOT RUN THROUGH LIGHT WELL. (2) PROTECT VOID SPACE BETWEEN EXISTING LOW ROOF DECK AND NEW HIGH ROOF WITH SPRINKLERS. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



1 FP-102 CLERESTORY - FIRE PROTECTION - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date: 9/18/2026
License # 36608, Expiration Date 12/23/2027

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

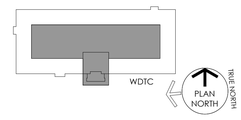
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	9/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:	
DRAWN BY:	EKD
CHK'D BY:	SRH

JOB NUMBER:	25909 - DGS# CC-10-MC25-488
ISSUE DATE:	11/06/2026

SHEET TITLE:

CLERESTORY - FIRE PROTECTION - NEW WORK PLAN

SHEET NUMBER:

FP-102

SHEET 107 OF 172

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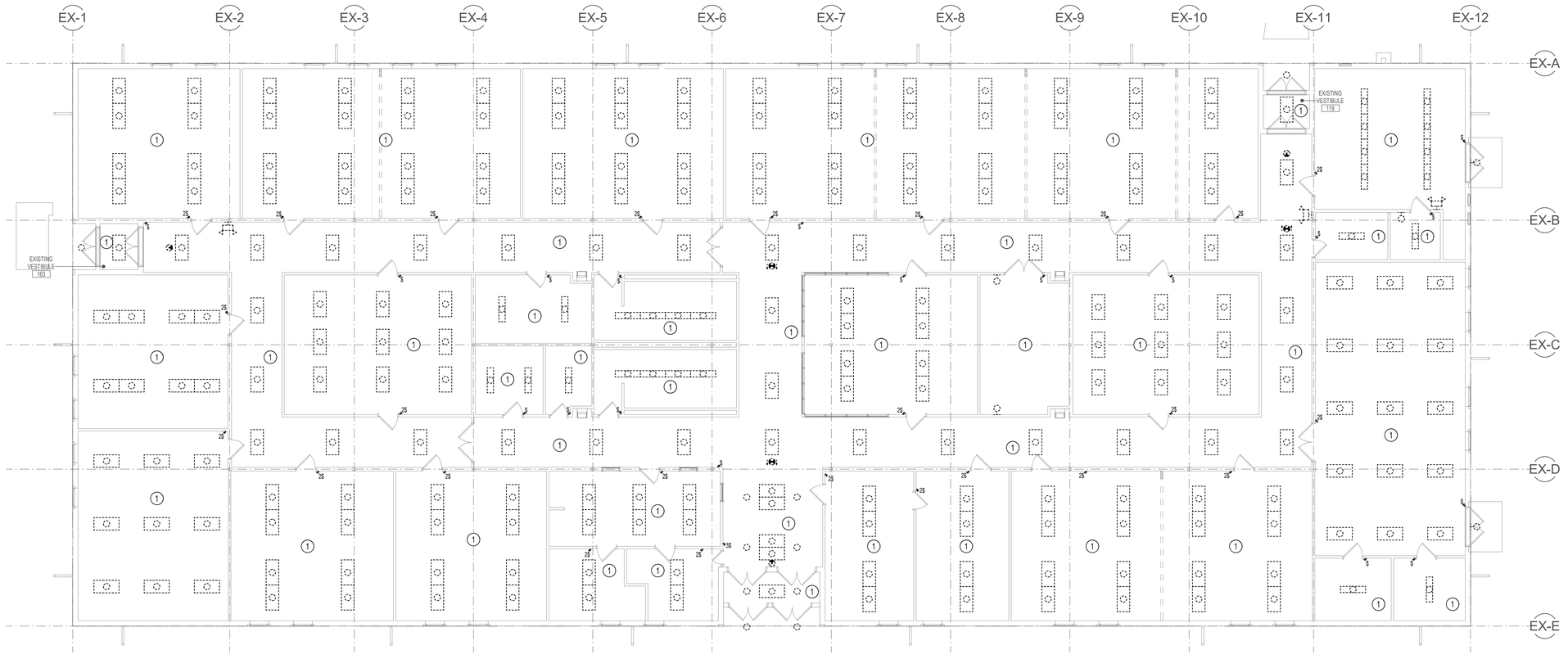
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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (- - - - -) INDICATE EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) REMOVE EXISTING LIGHT FIXTURES AND LIGHTING CONTROL DEVICES IN THIS SPACE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.



1 ED101 FIRST FLOOR - LIGHTING - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'- 0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

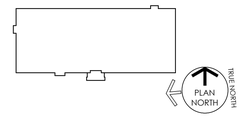
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	SCHEMATIC DESIGN SUBMISSION	02/27/2026
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CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR PLAN - LIGHTING - DEMOLITION

SHEET NUMBER:

ED101

SHEET 108 OF 172

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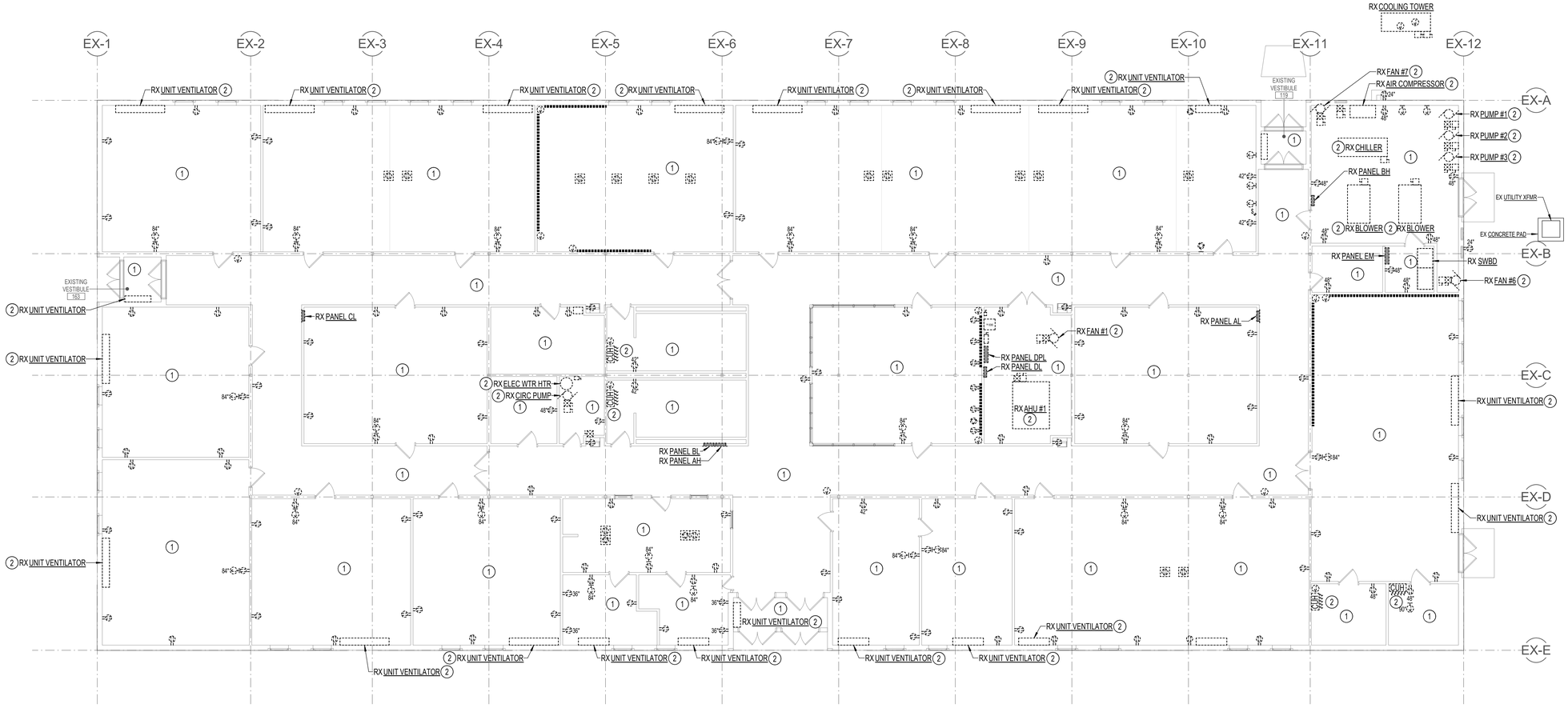
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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) REMOVE ALL EXISTING ELECTRICAL BOXES, EQUIPMENT, AND DEVICES IN THIS SPACE. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE.

(2) DISCONNECT AND MAKE SAFE MECHANICAL EQUIPMENT FOR REMOVAL. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REMOVE ASSOCIATED DISCONNECTING MEANS.



1 ED201 FIRST FLOOR - POWER - DEMOLITION
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

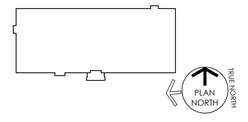
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	SCHEMATIC DESIGN SUBMISSION	02/27/2026
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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR PLAN - POWER - DEMOLITION

SHEET NUMBER:

ED201

SHEET 109 OF 172

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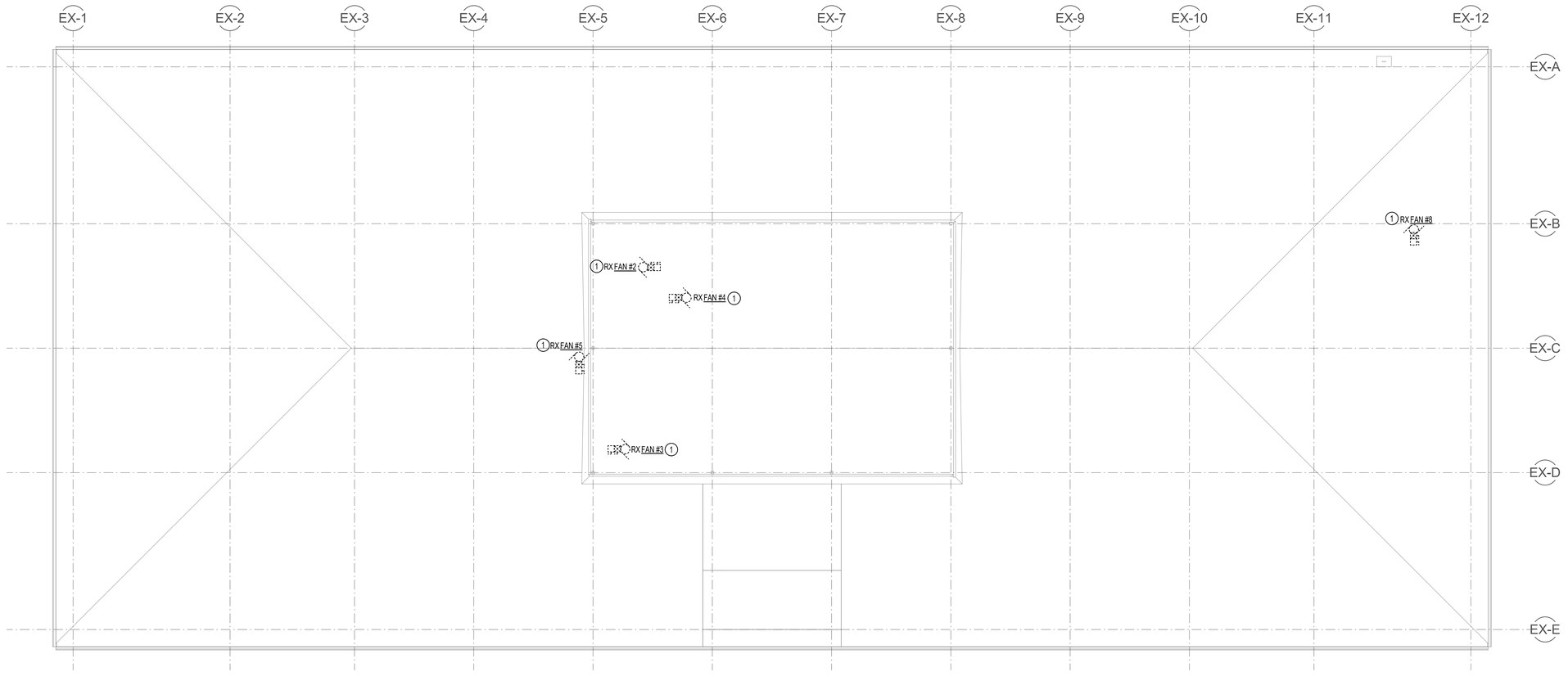
11/5/2025 2:49:17 PM Autodesk Docs://25909 Allegany College of MD-ACA-WTDC Recreation/HA 25-A009 - Electrical Central (2025).rvt

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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) DISCONNECT AND MAKE SAFE MECHANICAL EQUIPMENT FOR REMOVAL. REMOVE ALL ASSOCIATED CONDUIT AND WIRING BACK TO SOURCE. REMOVE ASSOCIATED DISCONNECTING MEANS.



1 ED202 ROOF - POWER - DEMOLITION PLAN
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

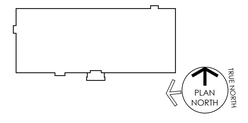
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
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	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF PLAN - POWER - DEMOLITION

SHEET NUMBER:

ED202

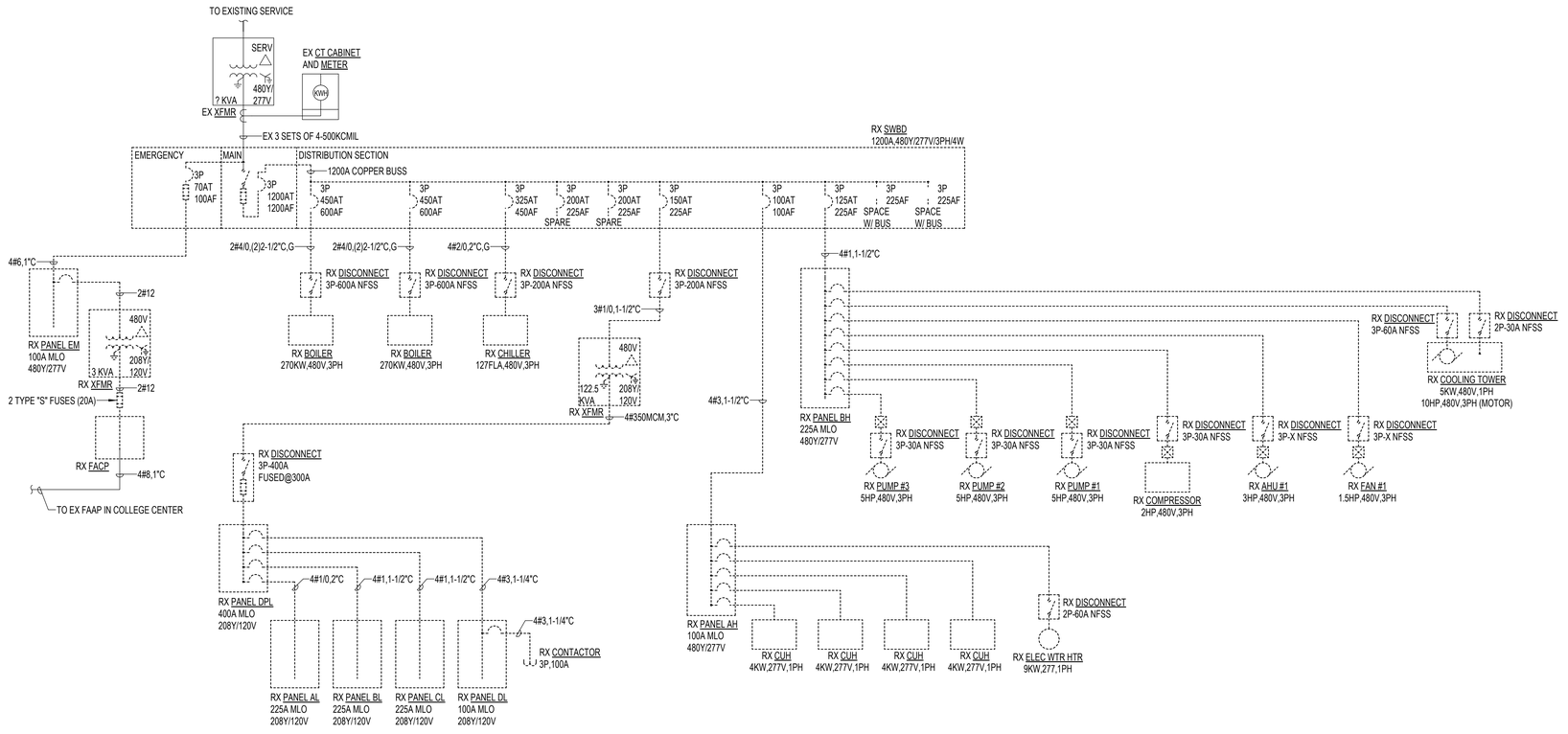
SHEET 110 OF 172

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1 ED601 ELECTRICAL ONE-LINE DIAGRAM - DEMOLITION
N.T.S.

PROJECT TEAM

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PROJECT TITLE

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PROJECT ADDRESS

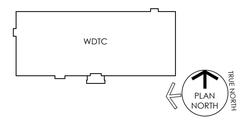
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CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: WC
CHK'D BY: NTS

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ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL ONE LINE DIAGRAM - DEMOLITION

SHEET NUMBER:

ED601

SHEET 111 OF 172

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ELECTRICAL CONVENTIONS

LIGHTING

- A — LUMINAIRE TYPE - SEE LUMINAIRE SCHEDULE
- 1b — CIRCUIT NUMBER
- CONTROL POINT DESIGNATION (IF MORE THAN ONE)
- A / 1 — LUMINAIRE WITH INTEGRAL BATTERY BACKUP
- STEM INDICATES WALL MOUNTED LUMINAIRE, MOUNTING HEIGHT AS NOTED
- NUMBER OF CONTROL POINTS
- TYPE OF CONTROL
- CONTROL ZONE REFERENCE

REFERENCE

- SECTION DESIGNATION
- NUMBER DENOTES SECTION IDENTIFICATION
- DRAWING NUMBER WHERE DETAIL IS LOCATED
- DETAIL DESIGNATION
- NUMBER DENOTES DETAIL IDENTIFICATION
- DRAWING NUMBER WHERE DETAIL IS LOCATED
- SPECIAL NOTE (APPLIES WHERE INDICATED ON THE DRAWING)
- S-1 — SPECIAL EQUIPMENT NUMBER

WIRING

- 5 — INDICATES PANELBOARD CIRCUIT DESIGNATION
- DEVICE TYPE
- 1,3,5(LP-1) — BRANCH CIRCUIT HOMERUN TO PANEL "LP-1", CIRCUITS #1,3,5 NUMBER OF CIRCUITS INDICATED BY QUANTITY OF ARROW HEADS.
- CONCEALED CONDUIT IN CEILING OR WALLS
- CONDUIT IN OR UNDER FLOOR
- EXPOSED CONDUIT
- CONDUIT TURNING UP
- CONDUIT TURNING DOWN
- CONDUIT, CAPPED

GENERAL NOTE: WHERE WIRE SIZE IS INDICATED AT THE HOMERUN OR ON THE SCHEDULE TO BE LARGER THAN THE SPECIFIED MINIMUM PROVIDE THE INDICATED WIRE SIZE THROUGHOUT THE ENTIRE BRANCH CIRCUIT.

MOUNTING HEIGHTS

- 8" — INDICATES DEVICE TO BE MOUNTED 8" ABOVE COUNTERTOP BACKSPLASH, WITH A MAXIMUM HEIGHT 46" AFF
- DEVICE TYPE
- 24" — INDICATES DEVICE MOUNTING HEIGHT ABOVE FINISHED FLOOR OR ABOVE FINISHED GRADE, AS APPROPRIATE
- DEVICE TYPE

PRESENTATION

- ELECTRICAL EQUIPMENT DESIGNATED BY SOLID HEAVY LINEWEIGHT INDICATES NEW WORK TO BE PROVIDED.
- ELECTRICAL EQUIPMENT DESIGNATED BY SOLID LIGHT LINEWEIGHT INDICATES EXISTING EQUIPMENT TO REMAIN, UNLESS OTHERWISE INDICATED.
- ELECTRICAL EQUIPMENT DESIGNATED BY DASHED HEAVY LINEWEIGHT REPRESENTS EXISTING EQUIPMENT TO BE REMOVED AND DISPOSED, UNLESS INDICATED TO BE REMOUNTED, RELOCATED, OR TURNED OVER TO OWNER.

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	LUMINAIRE	- -
	LUMINAIRE - WALLWASHER OR ADJUSTABLE DOWNLIGHT	- -
	LUMINAIRE - TRACK AND TRACK HEADS	- -
	EMERGENCY LUMINAIRE, BATTERY POWERED	- - / 90"
CEILING WALL	ILLUMINATED EXIT SIGN, SINGLE FACE - ARROW INDICATES DIRECTIONAL CHEVRON - CEILING/WALL MOUNT	- - / 90"
CEILING WALL	ILLUMINATED EXIT SIGN, DOUBLE FACE - CEILING/WALL MOUNT	- - / 90"
$S	SINGLE POLE TOGGLE SWITCH	46"
$3	THREE-WAY TOGGLE SWITCH	46"
$WP	WEATHERPROOF SWITCH	46"
$OS	OCCUPANCY SENSOR SWITCH	46"
$OSD	OCCUPANCY SENSOR SWITCH WITH 0-10V DIMMING	46"
$LV1	LIGHTING CONTROL SYSTEM - LOW VOLTAGE SWITCH FOR ONE ZONE, ON/OFF CONTROL.	46"
$LV1D	LIGHTING CONTROL SYSTEM - LOW VOLTAGE SWITCH FOR ONE ZONE, ON/OFF AND UP/DOWN DIMMING.	46"
$LV2	LIGHTING CONTROL SYSTEM - LOW VOLTAGE SWITCH FOR TWO ZONES, ON/OFF CONTROL.	46"
$LV2D	LIGHTING CONTROL SYSTEM - LOW VOLTAGE SWITCH FOR TWO ZONES, ON/OFF AND UP/DOWN DIMMING.	46"
$LVXPD	LIGHTING CONTROL SYSTEM - LOW VOLTAGE SWITCH FOR X ZONES WITH PILOT LIGHT, ON/OFF AND UP/DOWN DIMMING.	46"
OS CEILING, WALL	OCCUPANCY SENSOR - CEILING/WALL MOUNT SUBSCRIPTS: DT: DUAL TECHNOLOGY (DEFAULT IF NO SUBSCRIPT INDICATED) U: ULTRASONIC P: PASSIVE INFRARED	- - / 92"
RPP	LIGHTING CONTROL SYSTEM - RELAY PACK WITH POWER SUPPLY	- -
RPD	LIGHTING CONTROL SYSTEM - RELAY PACK WITH POWER SUPPLY FOR DIMMING 0-10V LOADS	- -
RPE	LIGHTING CONTROL SYSTEM - RELAY PACK FOR EMERGENCY, UL924 LISTED	- -
RPDE	LIGHTING CONTROL SYSTEM - RELAY PACK FOR DIMMING 0-10V LOADS AND EMERGENCY, UL924 LISTED	- -
PL	LIGHTING CONTROL SYSTEM - PLUG LOAD CONTROL	ABOVE ACCESSIBLE CEILING
PS150	LIGHTING CONTROL SYSTEM - STANDARD RANGE POWER SUPPLY FOR SENSOR - 150mA	ABOVE ACCESSIBLE CEILING
NIOTS	LIGHTING CONTROL SYSTEM - WIRED INPUT DEVICE FOR DRY CONTACT	ABOVE ACCESSIBLE CEILING
PAEMT	LIGHTING CONTROL SYSTEM - INFRARED PARTITION SENSOR - EMITTER	ABOVE ACCESSIBLE CEILING
PAREC	LIGHTING CONTROL SYSTEM - INFRARED PARTITION SENSOR - RECEIVER	ABOVE ACCESSIBLE CEILING
SHADE	LIGHTING CONTROL SYSTEM - RELAY FOR MOTORIZED SHADE CONTROL	ABOVE ACCESSIBLE CEILING
(SIMPLEX) (DUPLEX) (QUAD)	RECEPTACLE - NEMA CONFIGURATION 5-20R (SHADING INDICATES CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT) SUBSCRIPTS: GFI: WITH 5mA GROUND FAULT INTERRUPTER TR: TAMPER-RESISTANT WP: WEATHER-RESISTANT RECEPTACLE WITH WEATHERPROOF WHILE-IN-USE COVER	18"
	RECEPTACLE - NEMA CONFIGURATION 5-20R DUPLEX, TOP HALF SWITCHED	18"
(SIMPLEX) (DUPLEX) (QUAD)	RECEPTACLE - NEMA CONFIGURATION 5-20R FLOOR BOX (SHADING INDICATES CONNECTED TO EMERGENCY/STANDBY POWER CIRCUIT) SUBSCRIPTS: F: FLUSH MOUNTED T: TOMBSTONE MOUNTED P: POKE-THRU MOUNTED GFI: WITH 5mA GROUND FAULT INTERRUPTER IG: ISOLATED GROUND TYPE SPD: INTEGRAL SURGE PROTECTION AND INDICATOR LIGHT TR: TAMPER-RESISTANT EXP: EXPLOSION PROOF WP: WEATHER-RESISTANT RECEPTACLE WITH WEATHER-PROOF WHILE-IN-USE COVER	- -
	RECEPTACLE - NEMA CONFIGURATION 5-20R FLOOR BOX, TOP HALF SWITCHED	- -
CEILING WALL	JUNCTION BOX - CEILING/WALL MOUNT	- - / AS NOTED
$M	FRACTIONAL HORSEPOWER MANUAL MOTOR SWITCH	46"
	MOTOR	- -
	EQUIPMENT, AS NOTED	- -

ELECTRICAL LEGEND (CONTINUED)

SYMBOL	DESCRIPTION	MOUNTING HEIGHT
	COMBINATION MAGNETIC MOTOR STARTER AND SAFETY SWITCH	60" TO TOP
CUH	UNIT HEATER, CABINET TYPE	- -
UH	UNIT HEATER, SPACE TYPE	- -
	SAFETY SWITCH	60" TO TOP
	ENCLOSED CIRCUIT BREAKER	60" TO TOP
SPD	SURGE PROTECTIVE DEVICE	SEE DETAIL
SURFACE FLUSH	PANELBOARD, SURFACE/FLUSH MOUNT	78" TO TOP
	GROUNDING SYSTEM - GROUND CONNECTION	- -
	MOLDED CASE CIRCUIT BREAKER (600V AND BELOW)	- -
	FIXED CURRENT TRANSFORMER WITH TURN RATIO	- -
	CURRENT LIMITING FUSE (600V AND BELOW)	- -
	DISCONNECT SWITCH (600V AND BELOW)	- -
KW	KILOWATT METER (KWH = KILOWATT HOURS)	- -
	TRANSFORMER	- -
	GROUNDING SYSTEM WYE GROUNDED NEUTRAL WINDING	- -
	DELTA WINDING	- -

NOTES: (APPLICABLE TO ELECTRICAL LEGEND ONLY)

1. THE MOUNTING HEIGHTS GIVEN ON THIS SHEET IN THE ELECTRICAL LEGEND ARE GENERAL AND MUST BE USED ONLY WHEN MOUNTING HEIGHTS CANNOT BE ESTABLISHED BY REFERENCE TO DETAILS, ELEVATIONS, AND NOTES ON THE DRAWINGS.
2. ALL MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, MUST BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE OUTLET OR DEVICE.
3. HEIGHTS OF ALL ITEMS NOT COVERED BY THE ELECTRICAL LEGEND AND NOT SHOWN ON THE DRAWINGS MUST BE AS DIRECTED BY THE ARCHITECT OR ENGINEER.
4. WHERE PLACING ANY ITEM AT THE HEIGHTS LISTED OR NOTED WILL CAUSE INTERFERENCE WITH THE WORK OF OTHER TRADES, OR IS NOT PHYSICALLY POSSIBLE OR DESIRABLE FOR ONE REASON OR ANOTHER, THE ITEM MUST BE INSTALLED AT A LOCATION APPROVED BY THE ARCHITECT OR ENGINEER.

BRANCH CIRCUIT SCHEDULE

CIRCUIT BREAKER RATING	CONDUCTOR & CONDUIT SIZE		
	120V 1PH, 277V 1PH, 208V 1PH, OR 240V 1PH	208V 3PH, 240V 3PH, 480V 3PH, 120/208V 1PH, OR 120/240V 1PH	120/208V 3PH, 120/240V 3PH, OR 277/480V 3PH
	2W CIRCUITS	3W CIRCUITS	4W CIRCUITS
15A	2#12 + #12GW IN 3/4"C	3#12 + #12GW IN 3/4"C	4#12 + #12GW IN 3/4"C
20A	2#12 + #12GW IN 3/4"C	3#12 + #12GW IN 3/4"C	4#12 + #12GW IN 3/4"C
25A	2#10 + #10GW IN 3/4"C	3#10 + #10GW IN 3/4"C	4#10 + #10GW IN 3/4"C
30A	2#10 + #10GW IN 3/4"C	3#10 + #10GW IN 3/4"C	4#10 + #10GW IN 3/4"C
35A	2#8 + #10GW IN 3/4"C	3#8 + #10GW IN 3/4"C	4#8 + #10GW IN 3/4"C
40A	2#8 + #10GW IN 3/4"C	3#8 + #10GW IN 3/4"C	4#8 + #10GW IN 3/4"C
45A	2#6 + #10GW IN 3/4"C	3#6 + #10GW IN 1"C	4#6 + #10GW IN 1"C
50A	2#6 + #10GW IN 3/4"C	3#6 + #10GW IN 1"C	4#6 + #10GW IN 1"C
60A	2#4 + #10GW IN 1"C	3#4 + #10GW IN 1-1/4"C	4#4 + #10GW IN 1-1/4"C

NOTES: (APPLICABLE TO BRANCH CIRCUIT SCHEDULE ONLY)

1. THIS SCHEDULE IS INTENDED TO PROVIDE BRANCH CIRCUIT CONDUIT AND WIRE SIZE IF NOT SPECIFICALLY CALLED OUT IN PANELBOARD SCHEDULE, SHEET KEYNOTE, OR FOLLOWING PRESENTATION CONVENTIONS SHOWN ON THE ELECTRICAL LEGEND SHEET.
2. HOW TO USE: SELECT BRANCH CIRCUIT CONDUIT AND WIRE SIZE BY FIRST DETERMINING SYSTEM VOLTAGE AND WIRE CONFIGURATION AND SECOND BY CIRCUIT BREAKER SIZE.
3. CONTRACTOR SHALL INCREASE WIRE AND CONDUIT SIZE AS REQUIRED FOR MAXIMUM VOLTAGE DROP OF 3%, FROM BRANCH CIRCUIT PANEL TO LAST DEVICE ON CIRCUIT BASED ON ACTUAL CONDUIT ROUTE.
4. COMPLETE CIRCUITING OF INDIVIDUAL ELECTRICAL DEVICES TO HOMERUN USING WIRE AND RACEWAY SIZES INDICATED ON SCHEDULE.
5. CONDUIT SIZES SHOWN ABOVE ARE THE MINIMUM SIZE TO BE USED. CONDUITS WITH CONDUCTORS FOR MULTIPLE BRANCH CIRCUIT RUNS SHALL CONFORM TO BOTH THE ABOVE MINIMUM SIZE LISTED AND TO CONDUIT FILL REQUIREMENTS OF ANNEX C OF THE NEC.

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

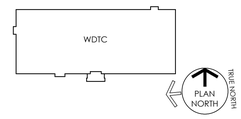
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL COVER SHEET

SHEET NUMBER:

E001

SHEET 112 OF 172

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ELECTRICAL ABBREVIATIONS

A	AMPERE
ACCU	AIR COOLED CONDENSING UNIT
ACU	AIR CONDITIONING UNIT
ADA	AMERICANS WITH DISIBILITIES ACT
ADJ	ADJUSTABLE
AF	AMPERE FRAME, AMPERE FUSE
AFCI	ARC FAULT CIRCUIT INTERRUPTER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHJ	AUTHORITY HAVING JURISDICTION
AHU	AIR HANDLING UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AL	ALUMINUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATING, AND AIR-CONDITIONING ENGINEERS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
ASYM	ASYMMETRICAL
AT	AMPERE TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AUX	AUXILIARY
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BF	BALLAST FACTOR
BGE	BALTIMORE GAS AND ELECTRIC
BLDG	BUILDING
BOD	BASIS OF DESIGN
BS	BRANCH SELECTOR
C	CONDUIT
CB	CIRCUIT BREAKER
CCT	CORRELATED COLOR TEMPERATURE
CCTV	CLOSED CIRCUIT TELEVISION
CH	CHILLER
CKT	CIRCUIT
CLG	CEILING
CMS	COMBINATION MOTOR STARTER
CO	CARBON MONOXIDE
COMM	COMMUNICATION
CRI	COLOR RENDERING INDEX
CT	CURRENT TRANSFORMER
CU	COPPER
CX	CONNECT TO EXISTING
DAS	DISTRIBUTED ANTENNA SYSTEM
DB	DECIBEL
DN	DOWN
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DS	DISCONNECT SWITCH
DWC	DRINKING WATER COOLER
DWG	DRAWING
E	EMERGENCY
EBH	ELECTRIC BASEBOARD HEATER
EBU	EMERGENCY BATTERY UNIT
ECB	ENCLOSED CIRCUIT BREAKER
ECM	ELECTRONICALLY COMMUTATED MOTOR
EF	EXHAUST FAN
EGC	EQUIPMENT GROUNDING CONDUCTOR
ELEC	ELECTRICAL
ELECT	ELECTRICAL
EMR	ELEVATOR MACHINE ROOM
EMT	ELECTRICAL METALLIC TUBING
ENCL	ENCLOSURE
ENT	ELECTRICAL NONMETALLIC TUBING
EPO	EMERGENCY POWER OFF
EQUIP	EQUIPMENT
ERMS	ENERGY-REDUCING MAINTENANCE SWITCH
ETR	EXISTING TO REMAIN
ETU	ELECTRONIC TRIP UNIT
EWH	ELECTRIC WATER HEATER
EX	EXISTING
F	FUSED, FUSIBLE, FAHRENHEIT
FA	FIRE ALARM
FAAP	FIRE ALARM ANNUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
FCU	FAN COIL UNIT
FDR	FEEDER
FLA	FULL LOAD AMPERAGE
FMC	FLEXIBLE METAL CONDUIT
FP	FAN POWERED, FIRE PUMP
FSAE	FIRE SERVICE ACCESS ELEVATOR
FSS	FUSED SAFETY SWITCH
FT	FEET
FVNR	FULL VOLTAGE NON-REVERSING
G	GROUND
GB	GROUND BAR
GD	GENERAL DUTY
GEC	GROUNDING ELECTRODE CONDUCTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFEP	GROUND FAULT EQUIPMENT PROTECTOR
GFI	GROUND FAULT INTERRUPTER
GND	GROUND
GRC	GALVANIZED RIGID STEEL
GW	GROUND WIRE
HD	HEAVY DUTY
HDPE	HIGH-DENSITY POLYETHYLENE
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
HPU	HEAT PUMP UNIT
HV	HIGH VOLTAGE
HVAC	HEATING VENTILATING AIR CONDITIONING
HVI	HEARING AND VISUALLY IMPAIRED
HZ	HERTZ
IBC	INTERNATIONAL BUILDING CODE
ICCB	INSULATED CASE CIRCUIT BREAKER
IEBC	INTERNATIONAL EXISTING BUILDING CODE
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS
IFC	INTERNATIONAL FIRE CODE
IG	ISOLATED GROUND
IGCC	INTERNATIONAL GREEN CONSTRUCTION CODE
IMC	INTERMEDIATE METALLIC CONDUIT
IN	INCH
IT	INFORMATION TECHNOLOGY
JB	JUNCTION BOX
K	ONE THOUSAND, KELVIN
KAIC	THOUSAND AMPERE INTERRUPTING CAPACITY
KCMIL	THOUSAND CIRCULAR MILS
KV	KILOVOLTS
KVA	KILOVOLT-AMPERES
KW	KILOWATTS
LC	LOAD CENTER
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT EMITTING DIODE
LF	LINEAR FEET
LFMC	LIQUID TIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUID TIGHT FLEXIBLE NON-METALLIC CONDUIT
LRA	LOCKED ROTOR AMPS
LS	LIMIT SWITCH, LONG TIME-SHORT TIME
LSI	LONG TIME-SHORT TIME-INSTANTANEOUS
LSIG	LONG TIME-SHORT TIME-INSTANTANEOUS GROUND FAULT
LTG	LIGHTING
LTS	LIGHTS
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	METAL CLAD, METER CENTER
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MCCB	MOLDED CASE CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MDP	MAIN DISTRIBUTION PANEL
MGB	MAIN GROUND BAR
MH	MANHOLE, METAL HALIDE, MOUNTING HEIGHT
MI	MINERAL INSULATED
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MMS	MANUAL MOTOR STARTER
MOCP	MAXIMUM OVERCURRENT PROTECTION
MOD	MOTOR OPERATED DAMPER
MSGB	MAIN SERVICE GROUNDING BAR
MTD	MOUNTED
MV	MEDIUM VOLTAGE
N	NEUTRAL
NAC	NOTIFICATION APPLIANCE CIRCUIT
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NECA	NATIONAL ELECTRICAL CONTRACTORS ASSOCIATION
NEMA	NATIONAL ELECTRICAL MANUFACTURERS' ASSOCIATION
NESC	NATIONAL ELECTRICAL SAFETY CODE
NF	NON-FUSED
NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
NFSS	NON-FUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NM	NON-METALLIC
NO	NUMBER, NORMALLY OPEN
NTS	NOT TO SCALE
OCP	OVERCURRENT PROTECTION
OH	OVERHEAD
OHE	OVERHEAD ELECTRIC
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
P	POLE(1P, 2P, 3P)
PA	PUBLIC ADDRESS
PF	POWER FACTOR
PH	PHASE
PIR	PASSIVE INFRARED
POE	POWER OVER ETHERNET
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
QTY	QUANTITY
R	RACEWAY
REC	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RLA	RATED LOAD AMPERES
RM	ROOM
RMS	ROOT MEAN SQUARE
RNC	RIGID NONMETALLIC CONDUIT
RTU	ROOF TOP UNIT
RX	REMOVE EXISTING
SCTE	SOCIETY OF CABLE TELECOMMUNICATIONS ENGINEERS
SE	SERVICE ENTRANCE
SER	SERVICE ENTRANCE RATED
SF	SQUARE FEET
SN	SOLID NEUTRAL
SPD	SURGE PROTECTION DEVICE
SS	SAFETY SWITCH
ST	SINGLE-THROW
SW	SWITCH
SWBD	SWITCHBOARD
SWGR	SWITCHGEAR
SYM	SYMMETRICAL
T	TRANSFORMER
TA	TRIP AMPERES
TECH	TECHNOLOGY
TGB	TELECOMMUNICATIONS GROUND BAR
THD	TOTAL HARMONIC DISTORTION
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUND BAR
TTB	TELEPHONE TERMINAL BOARD
TV	TELEVISION
TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSION
TYP	TYPICAL
UG	UNDERGROUND
UGE	UNDERGROUND ELECTRIC
UH	UNIT HEATER
UL	UNDERWRITERS LABORATORY
UON	UNLESS OTHERWISE NOTED
UTP	UNSHIELDED TWISTED PAIR
V	VOLTS
VA	VOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
VSD	VARIABLE SPEED DRIVE
W	WIRE, WATTS
W/	WITH
WP	WEATHERPROOF
WR	WEATHER RESISTANT
XFMR	TRANSFORMER
Y	WYE

GENERAL ELECTRICAL NOTES

(APPLICABLE TO ALL ELECTRICAL AND FIRE ALARM DRAWINGS)

1. PRIOR TO SUBMITTING SHOP DRAWINGS TO ENGINEER FOR EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS, COORDINATE ELECTRICAL REQUIREMENTS BETWEEN CONTRACTORS OF ALL TRADES ASSOCIATED WITH THE INSTALLATION. THE GENERAL CONTRACTOR'S STAMP ON THE SUBMITTAL MUST STATE THAT COORDINATION BETWEEN ALL TRADES HAS BEEN VERIFIED AND THAT THE SUBMITTAL HAS BEEN APPROVED FOR ENGINEER'S REVIEW. IF CONTRACTOR SUBMITS EQUIPMENT WITH POWER REQUIREMENTS THAT ARE DIFFERENT FROM POWER CONNECTION INDICATED ON THE CONTRACT DOCUMENTS, CONTRACTOR MUST PROVIDE A REASON FOR THE CHANGE AND WRITTEN CONFIRMATION THAT THE CHANGE HAS BEEN FULLY COORDINATED WITH ALL ASSOCIATED TRADES. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO ELECTRICAL CONNECTION, COORDINATE AND MAKE REQUIRED CHANGES TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED DUE TO CONTRACTOR'S FAILURE TO COORDINATE WITH ALL ASSOCIATED TRADES. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO COORDINATE EQUIPMENT SUBMITTALS AMONG THE SUBCONTRACTORS, NOT THE ENGINEER'S.
2. PROVIDE LABOR, MATERIALS, TOOLS, EQUIPMENT, COORDINATION, DELEGATED DESIGN AND INCIDENTALS NECESSARY TO PROVIDE A COMPLETE AND OPERABLE SYSTEM.
3. PERFORM WORK AS REQUIRED BY APPLICABLE CODES, REGULATIONS AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES WITH LAWFUL JURISDICTION.
4. MATERIAL AND EQUIPMENT SHALL BE LISTED AND LABELED BY NATIONALLY RECOGNIZED TESTING LABORATORIES FOR INTENDED SERVICE.
5. GIVE NOTICES, FILE PLANS, OBTAIN PERMITS AND LICENSES, PAY FEES AND BACK CHARGES, AND OBTAIN NECESSARY APPROVALS FROM AUTHORITIES THAT HAVE JURISDICTION.
6. MAINTAIN RECORD DRAWINGS ON SITE. RECORD SET SHALL BE COMPLETE, CURRENT, AND AVAILABLE UPON REQUEST.
7. SUBMIT FOR APPROVAL, SHOP DRAWINGS FOR EQUIPMENT AND MATERIALS USED ON PROJECT. OBTAIN APPROVAL BY ENGINEER PRIOR TO PURCHASE OF EQUIPMENT AND MATERIALS.
8. REPAIR OR REPLACE DAMAGE TO FACILITIES AND EQUIPMENT AT NO ADDITIONAL EXPENSE TO OWNER.
9. PATCH AND REPAIR DISTURBED AREAS TO MATCH ADJACENT SURFACES AND FINISHES.
10. PROVIDE TEMPORARY POWER AND LIGHTING FOR OTHER TRADES AS REQUIRED TO COMPLETE PROJECT IN ACCORDANCE WITH APPLICABLE CODES AND STANDARDS.
11. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS INDICATED ON RISER DIAGRAMS WHETHER OR NOT INDICATED ON PLANS, AND VICE VERSA.
12. LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND REQUIRE COORDINATION WITH OTHER TRADES. ROUTING OF CONDUIT IS DIAGRAMMATIC IN NATURE AND NOT INTENDED TO SHOW REQUIRED OFFSETS AND DETAILS. OBTAIN DRAWINGS AND SPECIFICATIONS FROM OTHER TRADES AND COORDINATE WITH OTHER TRADES.
13. COORDINATE ELECTRICAL INSTALLATION WITH FIELD CONDITIONS. LOCATIONS SHOWN ARE DIAGRAMMATIC AND MAY REQUIRE ADJUSTMENT IN FIELD.
14. COORDINATE LOCATIONS OF ELECTRICAL DEVICES WITH ARCHITECTURAL ELEVATIONS, CASEWORK DETAILS, AND KITCHEN EQUIPMENT DRAWINGS PRIOR TO INSTALLATION.
15. REFER TO MECHANICAL DRAWINGS FOR EXACT LOCATION OF MECHANICAL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS.
16. REFER TO ARCHITECTURAL DRAWINGS FOR FIRE AND SOUND RATED WALLS REQUIRING SPECIAL CONSTRUCTION.
17. PERMANENTLY LABEL NEW ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO, DEVICE DESIGNATION AND SUPPLY CIRCUIT DESIGNATION.
18. CORE DRILL CONCRETE WALLS AND FLOORS TO PROVIDE OPENINGS FOR CONDUIT INSTALLATION. PRIOR TO CORE DRILLING, LOCATE REINFORCING BARS IN EXISTING WALLS AND FLOORS USING A NON-DESTRUCTIVE METHOD. COORDINATE AND OBTAIN FINAL APPROVAL OF CORE DRILL LOCATIONS FROM STRUCTURAL ENGINEER. DO NOT CUT THROUGH EXISTING REINFORCING BARS WITHOUT APPROVAL OF STRUCTURAL ENGINEER. MAXIMUM CORE DRILL SIZE SHALL BE 5-INCH DIAMETER. SPACE CORE DRILL LOCATIONS A MINIMUM OF 6 INCHES FROM EACH OTHER, MEASURED FROM CORE DRILL OPENINGS. PROPERLY SEAL OPENINGS ACCORDING TO LOCATION AND APPLICATION.
19. PROVIDE EACH CIRCUIT WITH A DEDICATED NEUTRAL UNLESS NOTED OTHERWISE.
20. CONDUIT HOMERUNS SHOWN ON DRAWINGS WITH MORE THAN 3 CURRENT CARRYING CONDUCTORS ARE SHOWN DIAGRAMMATICALLY. DO NOT INSTALL MORE THAN 3 CURRENT CARRYING CONDUCTORS IN A SINGLE RACEWAY UNLESS INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.
21. PROVIDE FIRESTOPPING FOR ELECTRICAL PENETRATIONS IN FIRE RATED ASSEMBLIES.
22. INSTALL ELECTRICAL WORK IN A PROFESSIONAL AND SKILLFUL MANNER, RECTILINEAR TO BUILDING STRUCTURE. INSTALL RACEWAYS TIGHT TO STRUCTURAL CEILING AND AS HIGH AS POSSIBLE WITHIN CEILING SPACES TO MAINTAIN MAXIMUM AMOUNT OF CLEAR SPACE BELOW RACEWAY.
23. INSTALL RACEWAYS CONCEALED IN BUILDING FINISHES FOR ALL EXTERIOR MOUNTED DEVICES. DO NOT ROUTE EXPOSED ON BUILDING EXTERIOR.
24. INSTALL RACEWAYS CONCEALED IN WALLS, UNDER FLOORS, ABOVE CEILINGS, ETC., EXCEPT AS FOLLOWS:
    - WHERE SUSPENDED CEILINGS ARE NOT PROVIDED
    - IN VERTICAL SHAFTS, ELECTRICAL CLOSETS, ETC., MECHANICAL AND ELECTRICAL EQUIPMENT SPACES WHERE CONCEALMENT IS NOT PRACTICAL.
    - AT SURFACE-MOUNT PANELBOARDS IN OTHERWISE FINISHED SPACES LIMITED TO VERTICAL RUNS ABOVE AND BELOW PANEL
    - WHERE REQUIRED FOR EQUIPMENT CONNECTIONS
    - WHERE SPECIFICALLY INDICATED ON DRAWINGS
25. OWNER-FURNISHED EQUIPMENT: VERIFY AND COORDINATE ELECTRICAL ROUGH-IN REQUIREMENTS FOR OWNER-FURNISHED EQUIPMENT WITH OWNER PRIOR TO PULLING CONDUCTORS AND MAKING FINAL CONNECTIONS. LACK OF COORDINATION SHALL NOT JUSTIFY CHANGE ORDERS.
26. WHERE SUBMITTED EQUIPMENT REQUIRES REVISION TO OVERCURRENT PROTECTION, CONDUIT, AND WIRING, COORDINATE AND MAKE CHANGE TO PROVIDE A COMPLETE INSTALLATION IN ACCORDANCE WITH APPLICABLE CODES.
27. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES.COORDINATE EXACT LOCATION IN FIELD. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURER'S RECOMMENDED MAINTENANCE CLEARANCES.
28. FIRE ALARM BRANCH CIRCUIT IDENTIFICATION MUST COMPLY WITH NFPA 70 AND NFPA 72:
    - PROVIDE APPROVED RED CIRCUIT BREAKER LOCKOUT DEVICE FOR EACH CIRCUIT BREAKER SERVING A FIRE ALARM CIRCUIT.
    - IDENTIFY EACH FIRE ALARM CIRCUIT WITH A RED PHENOLIC NAMEPLATE WITH WHITE LETTERING. NAMEPLATE MUST READ "FIRE ALARM CIRCUIT". FASTEN NAMEPLATE IN PANELBOARD ADJACENT TO CIRCUIT BREAKER.

GENERAL ELECTRICAL DEMOLITION/RENOVATION NOTES

(APPLICABLE TO ALL ELECTRICAL AND FIRE ALARM DRAWINGS)

1. THE FACILITY WILL NOT REMAIN OCCUPIED DURING RENOVATIONS.
2. MINIMIZE OUTAGES. COORDINATE OUTAGES WITH OWNER.
3. PRIOR TO DEMOLITION, FIELD VERIFY CONDUITS, CONDUCTORS, AND CABLES THAT PASS THROUGH AND SERVE AREAS OUTSIDE THE SCOPE OF WORK. MAINTAIN CONTINUITY OF SYSTEMS. PROTECT OR RELOCATE SYSTEMS TO PREVENT DAMAGE. RESTORE SYSTEMS TO NORMAL OPERATION. COORDINATE SYSTEM OUTAGES WITH OWNER.
4. IDENTIFY NONFUNCTIONING EQUIPMENT AND DEVICES TO REMAIN AFTER DEMOLITION. NOTIFY OWNER IN WRITING PRIOR TO DEMOLITION. UPON COMPLETION OF WORK, ENSURE THAT EXISTING EQUIPMENT AND DEVICES OPERATE PROPERLY.
5. IN AREAS REQUIRING THE PERFORMANCE OF WORK OF OTHER TRADES, CAREFULLY DISCONNECT, MAKE SAFE, REMOVE AND STORE ELECTRICAL ITEMS IN PATH OF WORK. REINSTALL AND RECONNECT SAME AFTER COMPLETION OF OTHER TRADE'S WORK. COORDINATE REMOVAL OF EQUIPMENT WITH OTHER TRADES PRIOR TO DEMOLITION.
6. AFTER DEMOLITION VERIFY AND SUPPORT REMAINING CABLES, WIRES, AND CONDUIT IN ACCORDANCE WITH THE APPLICABLE VERSION OF THE NEC. DISCONNECT, MAKE SAFE AND REMOVE ABANDONED AND TEMPORARY WIRE WITHIN SPACE.
7. EXISTING CONDITIONS REFLECT GENERAL OBSERVATIONS AND ARE NOT INTENDED TO INDICATE DETAILS OR DIMENSIONS. NO ATTEMPT HAS BEEN MADE TO SHOW ALL ELECTRICAL EQUIPMENT. VERIFY EXISTING CONDITIONS PRIOR TO PERFORMING WORK. NOTIFY ARCHITECT IN WRITING IF CONDITIONS ARE DISCOVERED THAT PREVENT EXECUTION OF WORK.
8. PROTECT REMAINING ELECTRICAL SYSTEMS AND COMPONENTS FROM DAMAGE. REMOVE PROTECTIVE MATERIALS UPON COMPLETION OF WORK.
9. IN AREAS NOTED TO REMOVE ELECTRICAL WORK, REMOVE CONDUITS AND ASSOCIATED SUPPORTS BACK TO POINT OF CONCEALMENT AND REMOVE WIRING BACK TO REMAINING ACTIVE DEVICES OR SOURCE.
10. DISPOSE OF LIGHTING BALLASTS AND CAPACITORS CONTAINING PCB'S, AS DEFINED BY THE ENVIRONMENTAL PROTECTION AGENCY (EPA), IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, FEDERAL AND EPA REGULATIONS.
11. PROVIDE OWNER WITH INVENTORY OF MAJOR ELECTRICAL ITEMS TO BE REMOVED. OWNER WILL SELECT ITEMS TO BE SALVAGED. TURN SALVAGED ITEMS OVER TO OWNER. ITEMS REJECTED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR. REMOVE DEMOLISHED ITEMS FROM SITE.
12. UPDATE PANELBOARD DIRECTORIES TO INCLUDE MODIFICATIONS BY THIS PROJECT. TRACE CIRCUITS TO IDENTIFY UNLABELED LOADS.
13. REPAIR DISTURBED AREAS TO MATCH EXISTING CONDITIONS.
14. PROVIDE BLANK COVER PLATES FOR DEVICES REMOVED WHEN A REPLACEMENT DEVICE IS NOT INDICATED.
15. MAINTAIN CONTINUITY OF CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION IN PANELS INDICATED TO BE DEMOLISHED OR REPLACED. EXTEND EXISTING CIRCUITS AND FEEDERS REMAINING AFTER DEMOLITION TO NEW PANELS. CIRCUIT BREAKER, CONDUIT, AND WIRE SHALL MATCH EXISTING TYPES AND SIZES.

PROJECT TEAM

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P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2025

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

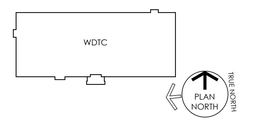
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL COVER SHEET

SHEET NUMBER:

E002

SHEET 113 OF 172

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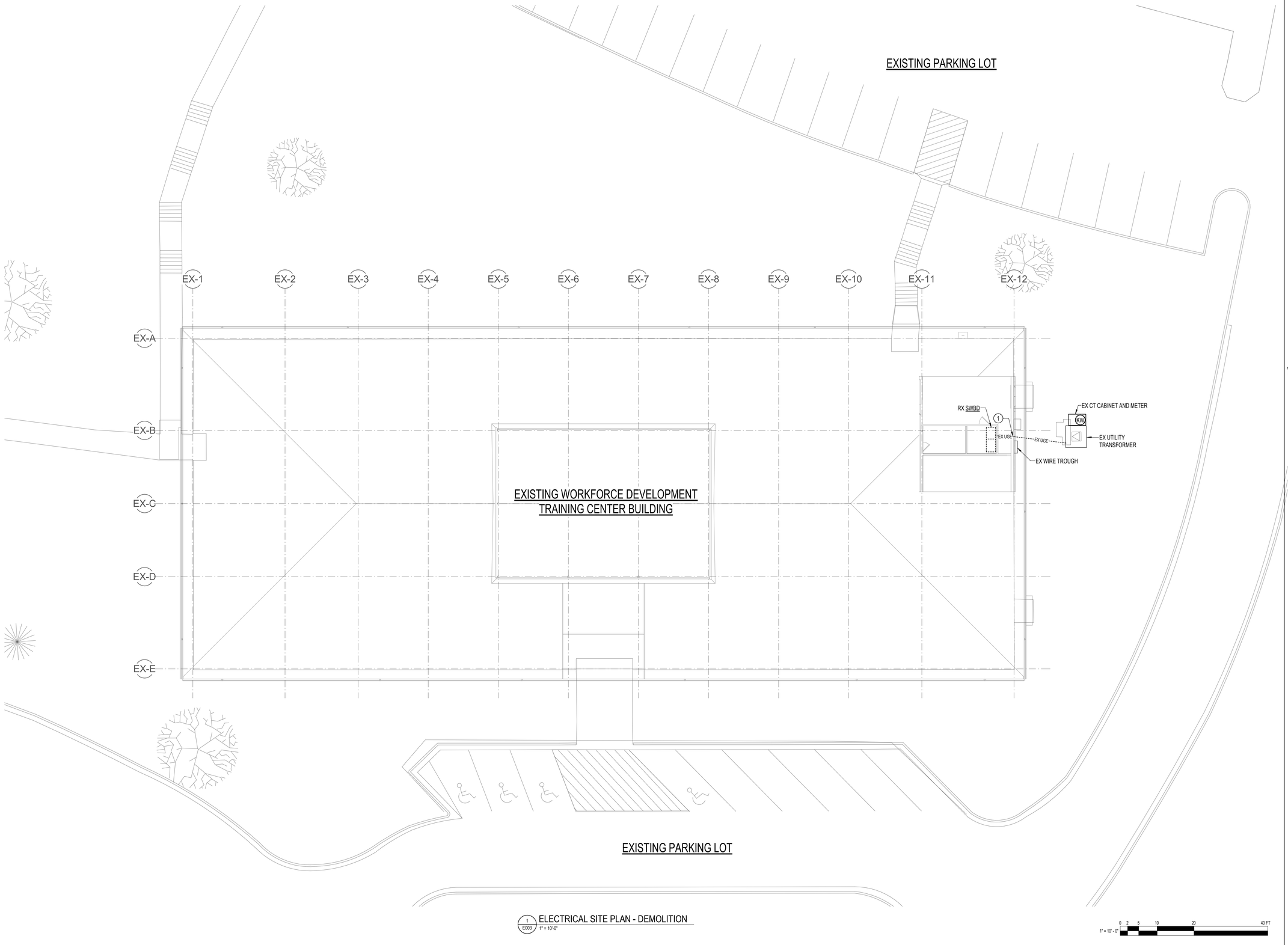
11/5/2025 2:49:15 PM Autodesk Docs://25909 Allegany College of MD ACM.VRTC Renovation/HA-25-A009 - Electrical Central (2025).rvt

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY DASHED HEAVY LINEWEIGHT (- - - - -) INDICATE EXISTING WORK TO BE REMOVED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) REMOVE EXISTING FEEDER TO LOCATION OF NEW SERVICE ENTRANCE DISCONNECT DS-MDP.



1 E003 ELECTRICAL SITE PLAN - DEMOLITION
1" = 10'-0"

1" = 10' - 0" 0 2 5 10 20 40 FT

PROJECT TEAM

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

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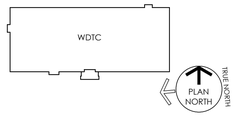
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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CHK'D BY: NTS

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ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL SITE PLAN - DEMOLITION

SHEET NUMBER:

E003

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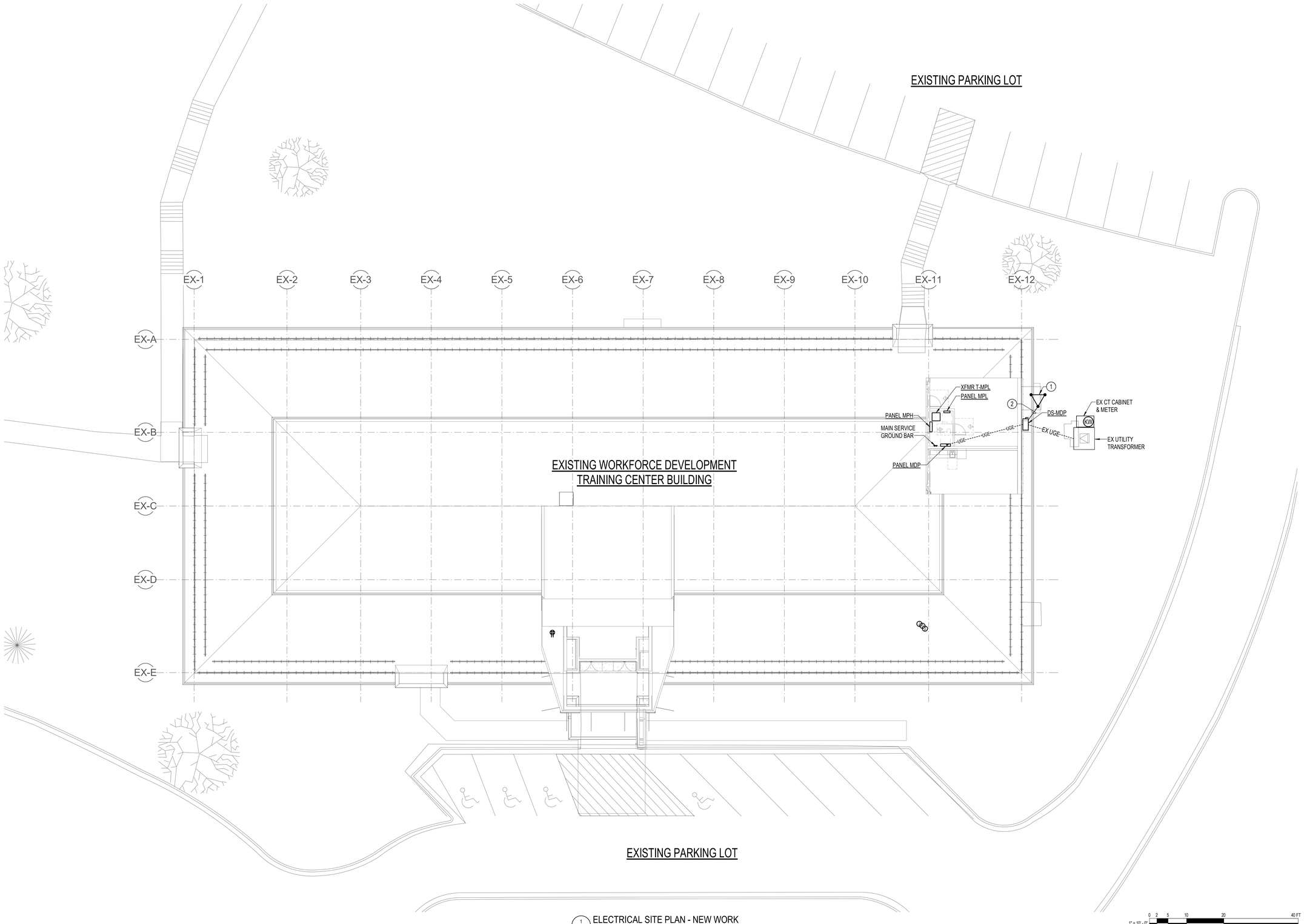
SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) GROUND ROD (TYP OF 3).

(2) GROUNDING ELECTRODE CONDUCTOR DIRECT BURIED 24" BELOW FINISHED GRADE. CONNECT TO UTILITY METER GROUNDING TERMINAL. PROTECT WITH NON-METALLIC CONDUIT.

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
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3. PRIOR TO PURCHASING OR INSTALLING SERVICE ENTRANCE DISCONNECT AND GROUNDING AND BONDING SYSTEM, CONTACT CLIFF BENNETT (304-790-0441).
4. TO SCHEDULE A DISCONNECT/RECONNECT, CONTACT SHERRI LEE (301-759-5719).
5. COORDINATE INSTALLATION OF NEW UTILITIES WITH UTILTIES PROVIDED UNDER OTHER DIVISIONS. REFER TO CIVIL, LANDSCAPE, MECHANICAL, AND ARCHITECTURAL SITE PLANS.



1 E004 ELECTRICAL SITE PLAN - NEW WORK
1" = 10'-0"

1" = 10'-0" 0 2 5 10 20 40 FT

PROJECT TEAM

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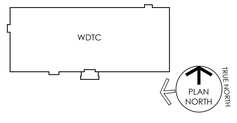
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
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SHEET TITLE:

ELECTRICAL SITE PLAN - NEW WORK

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E004

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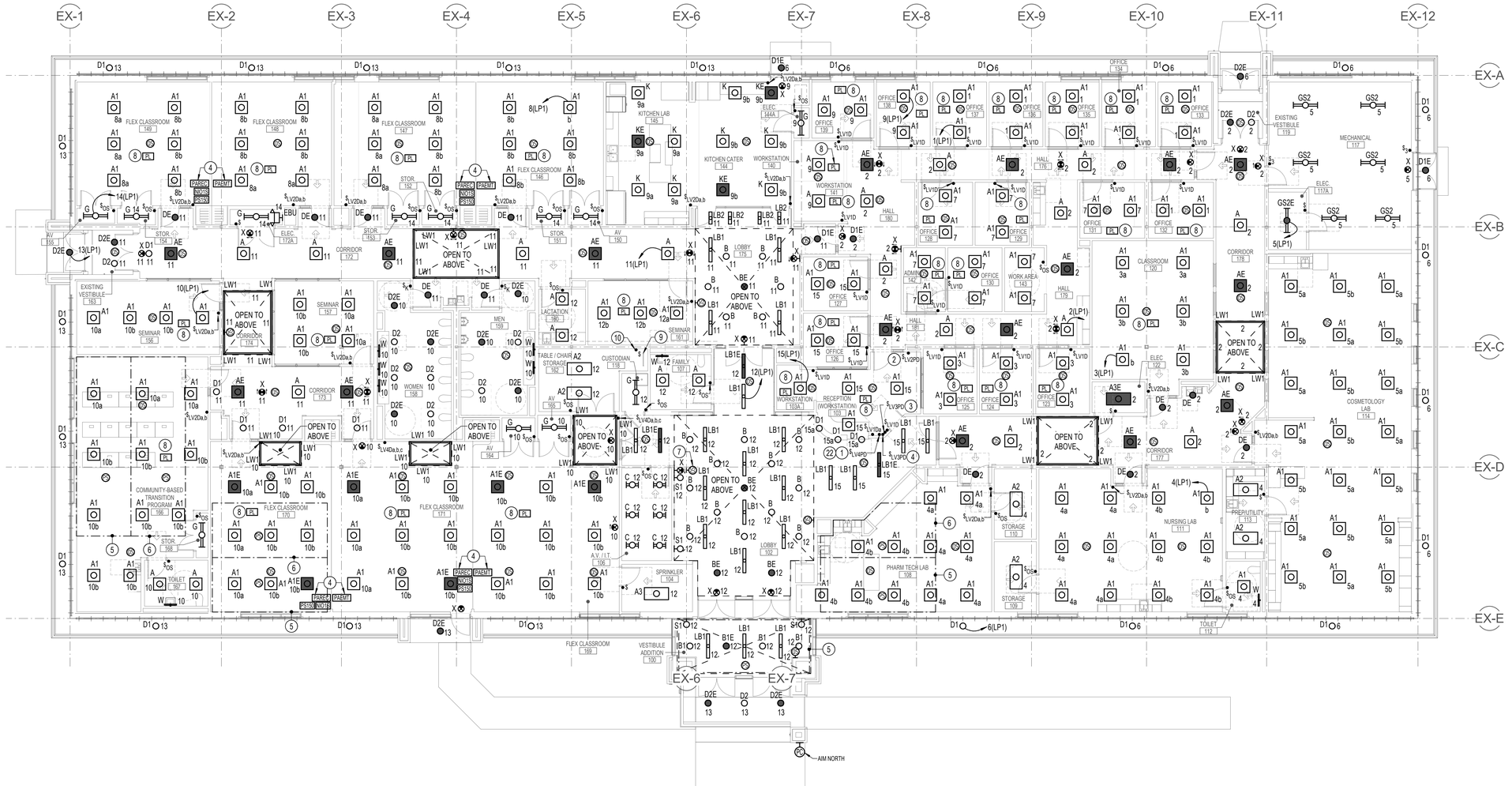
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3. CONNECT EXIT SIGNS AND EMERGENCY BATTERY UNITS TO UNSWITCHED HOT LEG OF NORMAL LIGHTING CIRCUIT SERVING CLOSEST LUMINAIRE.
4. FOR LUMINAIRES WITH INTEGRAL BATTERY DRIVERS, CONNECT BATTERY DRIVER TO UNSWITCHED HOT LEG OF SAME BRANCH CIRCUIT SERVING NORMAL (AC) DRIVER FOR BATTERY CHARGING AND TO SENSE NORMAL POWER FAILURE. PROVIDE SWITCHED HOT LEG TO NORMAL DRIVER.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. PROVIDE SWITCH WITH PILOT LIGHT AND LABEL "CORRIDOR". PROVIDE SEPARATE SWITCH CONTROL FOR EACH LUMINAIRE TYPE WITHIN THE CORRIDOR.
2. PROVIDE SWITCH WITH PILOT LIGHT AND LABEL "HALL". PROVIDE SEPARATE SWITCH CONTROL FOR EACH LUMINAIRE TYPE WITHIN THE CORRIDOR.
3. PROVIDE SWITCH WITH PILOT LIGHT AND LABEL "LOBBY".
4. PROVIDE SWITCH WITH PILOT LIGHT AND LABEL "VESTIBULE".
5. PRIMARY DAYLIGHT ZONE CONTROLLED BY PHOTO SENSOR INDICATED IN THE ZONE.
6. SECONDARY DAYLIGHT ZONE CONTROLLED BY PHOTO SENSOR INDICATED IN THE ZONE.
7. MOUNT OCCUPANCY SENSOR BELOW EXIT SIGN.
8. RECEPTACLE CONTROL POWER PACK FOR OCCUPANCY CONTROLLED RECEPTACLES. CONNECT TO BRANCH CIRCUIT SERVING RECEPTACLES IN THIS SPACE. REFER TO POWER PLANS FOR CONTROLLED RECEPTACLES.
9. LADDER TO CLERESTORY.
10. PROVIDE SWITCH WITH LABEL "CLERESTORY".
11. PROVIDE SWITCH WITH PILOT LIGHT AND LABEL "EXISTING VESTIBULE".
12. COORDINATE LOCATION OF PARTITION SENSORS WITH RETRACTABLE WALL PARTITION.



1 E101 FIRST FLOOR - LIGHTING - NEW WORK PLAN
1/8" = 1'-0"

1/8" = 1' - 0" 0 4 8 16 24 FT

PROJECT TEAM

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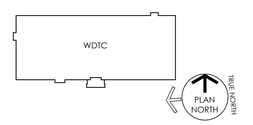
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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
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SHEET TITLE:

FIRST FLOOR PLAN - LIGHTING - NEW WORK

SHEET NUMBER:

E101

SHEET 116 OF 172

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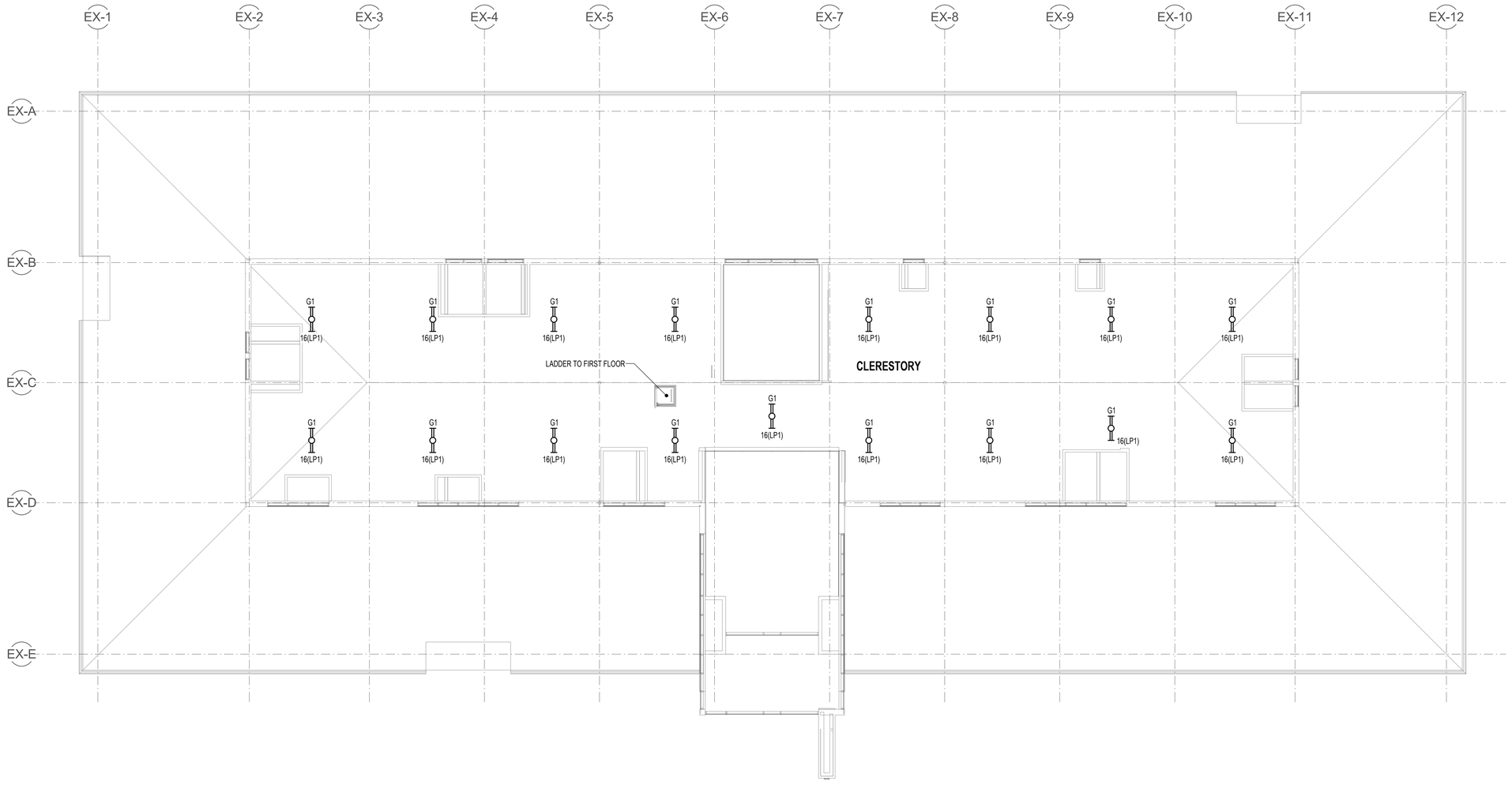
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3. CONNECT EXIT SIGNS AND EMERGENCY BATTERIES TO UNSWITCHED HOT LEG OF NORMAL LIGHTING CIRCUIT SERVING CLOSEST LUMINAIRE.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

(1) XXX



1 / E102 CLERESTORY PLAN - LIGHTING - NEW WORK
1/8" = 1'-0"

0 4 8 16 24 FT
1/8" = 1' - 0"

PROJECT TEAM

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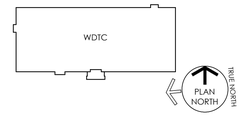
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	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

CLERESTORY PLAN - LIGHTING - NEW WORK

SHEET NUMBER:

E102

SHEET 117 OF 172

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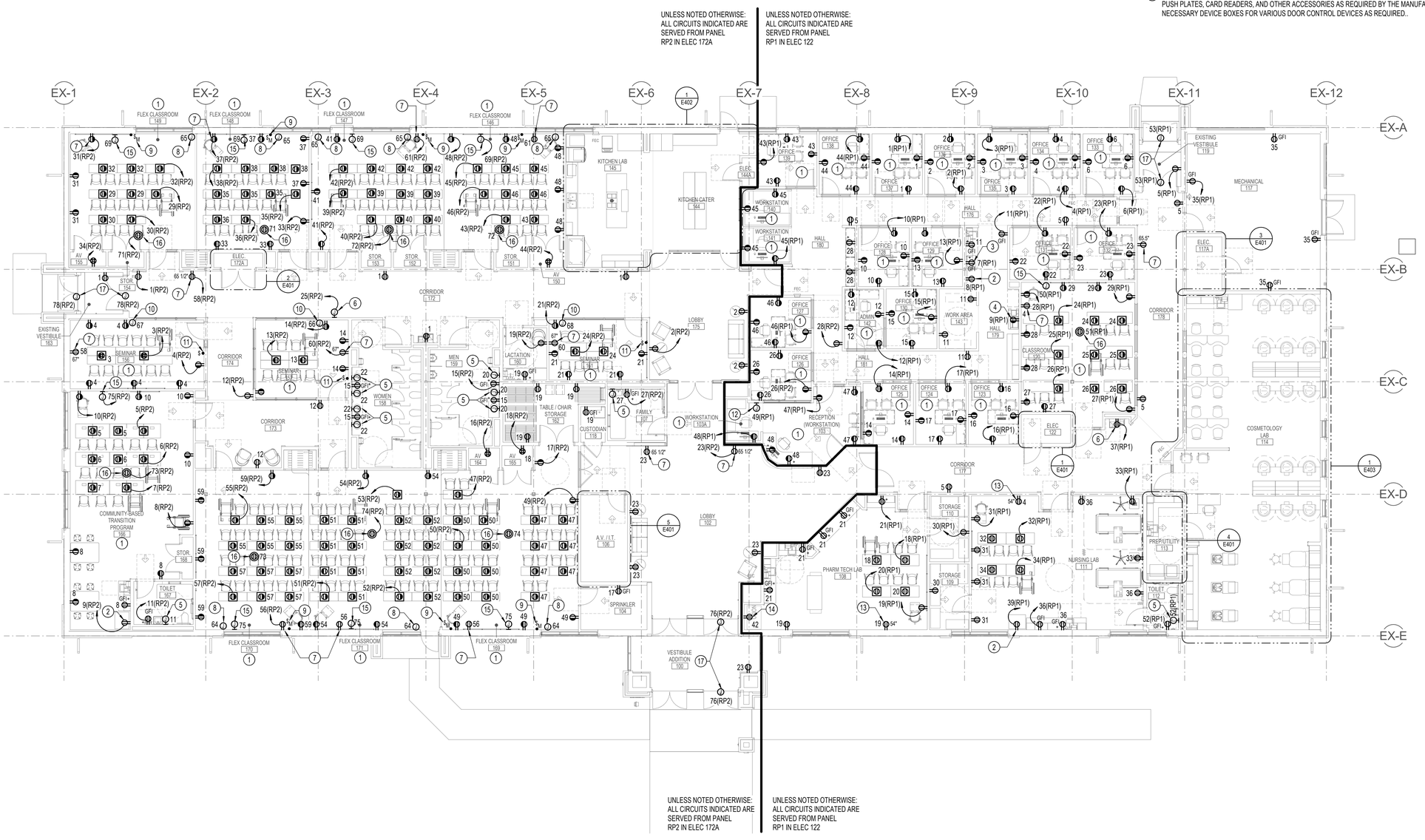
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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. FEED CONTROLLED HALF OF CONTROLLED RECEPTACLES IN THIS SPACE VIA LIGHTING CONTROL SYSTEM RECEPTACLE CONTROL POWER PACK. REFER TO LIGHTING PLANS FOR RECEPTACLE CONTROL POWER PACK.
2. FOR REFRIGERATOR.
3. FOR MICROWAVE.
4. FOR COPIER.
5. POWER SUPPLY FOR AUTOMATIC FAUCET FURNISHED WITH DEVICE. MAKE CONNECTIONS BETWEEN POWER SUPPLY AND ELECTRONIC DEVICES PER MANUFACTURER'S REQUIREMENTS AND RECOMMENDATIONS. COORDINATE QUANTITIES AND LOCATIONS AS REQUIRED PRIOR TO ROUGH-IN.
6. FOR DRINKING WATER COOLER. PROVIDE GFCI CIRCUIT BREAKER.
7. FOR DISPLAY. COORDINATE MOUNTING HEIGHT WITH TELECOM DRAWINGS.
8. FOR MOTORIZED SHADE. COORDINATE CONDUIT AND WIRING REQUIREMENTS WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS FURNISHED WITH SHOP DRAWINGS.
9. PROVIDE MOMENTARY CENTER-OFF MOTOR RATED SWITCH FOR UP/DOWN/STOP CONTROL FOR MOTORIZED SHADE.
10. FOR SMART FILM CONTROLLER. SMART FILM TRANSFORMER AND WIRING BY VENDOR.
11. FOR SMART FILM. LABEL "SMART FILM". COORDINATE EXACT LOCATION WITH LIGHT SWITCH.
12. FOR FIRE ALARM CONTROL PANEL. PROVIDE RED CIRCUIT BREAKER LOCKOUT DEVICE.
13. FOR DISPLAY. PROVIDE RECEPTACLE IN RECESSED FSR BOX. COORDINATE MOUNTING HEIGHT WITH AUDIOVISUAL DRAWINGS.
14. FOR EX LAMINAR FLOW CABINET.
15. FOR PROJECTION SCREEN.
16. FOR PROJECTOR. PROVIDE RECEPTACLE IN RECESSED CEILING BOX. COORDINATE MOUNTING HEIGHT WITH AUDIOVISUAL DRAWINGS.
17. PROVIDE NECESSARY WIRING IN CONDUIT BETWEEN AUTOMATIC POWER ASSISTED DOOR OPERATOR AND PUSH PLATES, CARD READERS, AND OTHER ACCESSORIES AS REQUIRED BY THE MANUFACTURER. PROVIDE NECESSARY DEVICE BOXES FOR VARIOUS DOOR CONTROL DEVICES AS REQUIRED..



1 E201 FIRST FLOOR PLAN - POWER - NEW WORK
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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6 NORTH EAST STREET, SUITE 300
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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2025

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

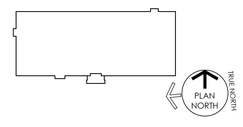
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR PLAN - POWER - NEW WORK

SHEET NUMBER:

E201

SHEET 118 OF 172

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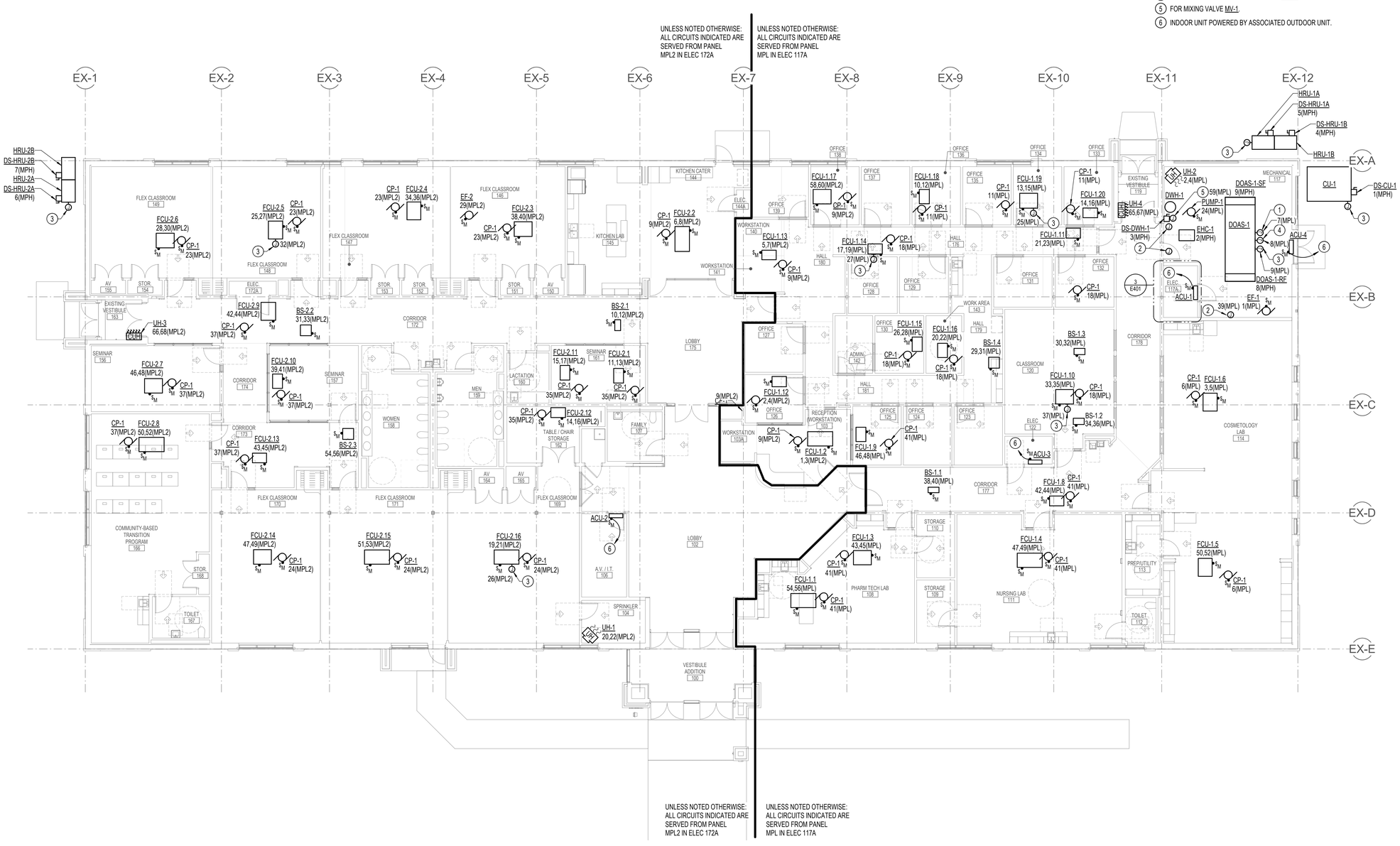
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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. FOR DOAS COMBINATION COIL.
2. FOR FIRE/SMOKE DAMPER.
3. FOR BAS.
4. FOR DOAS ENERGY RECOVERY WHEEL ERV-1.
5. FOR MIXING VALVE MV-1.
6. INDOOR UNIT POWERED BY ASSOCIATED OUTDOOR UNIT.



1 E201A FIRST FLOOR PLAN - MECHANICAL CONNECTIONS - NEW WORK
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

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853 Ripple Stream Court
Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2026

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

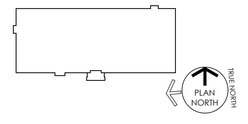
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
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	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

FIRST FLOOR PLAN - MECHANICAL CONNECTIONS - NEW WORK

SHEET NUMBER:

E201A

SHEET 119 OF 172

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11/5/2025 2:59:35 PM

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

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1 / E202 CLERESTORY PLAN - POWER - NEW WORK
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

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11/5/2026 2:59:42 PM

PROJECT TEAM

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License # 62722, Expiration Date 01/05/2026

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

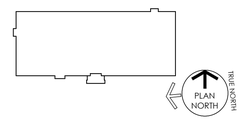
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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KEY PLAN



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CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

CLERESTORY PLAN - POWER - NEW WORK

SHEET NUMBER:

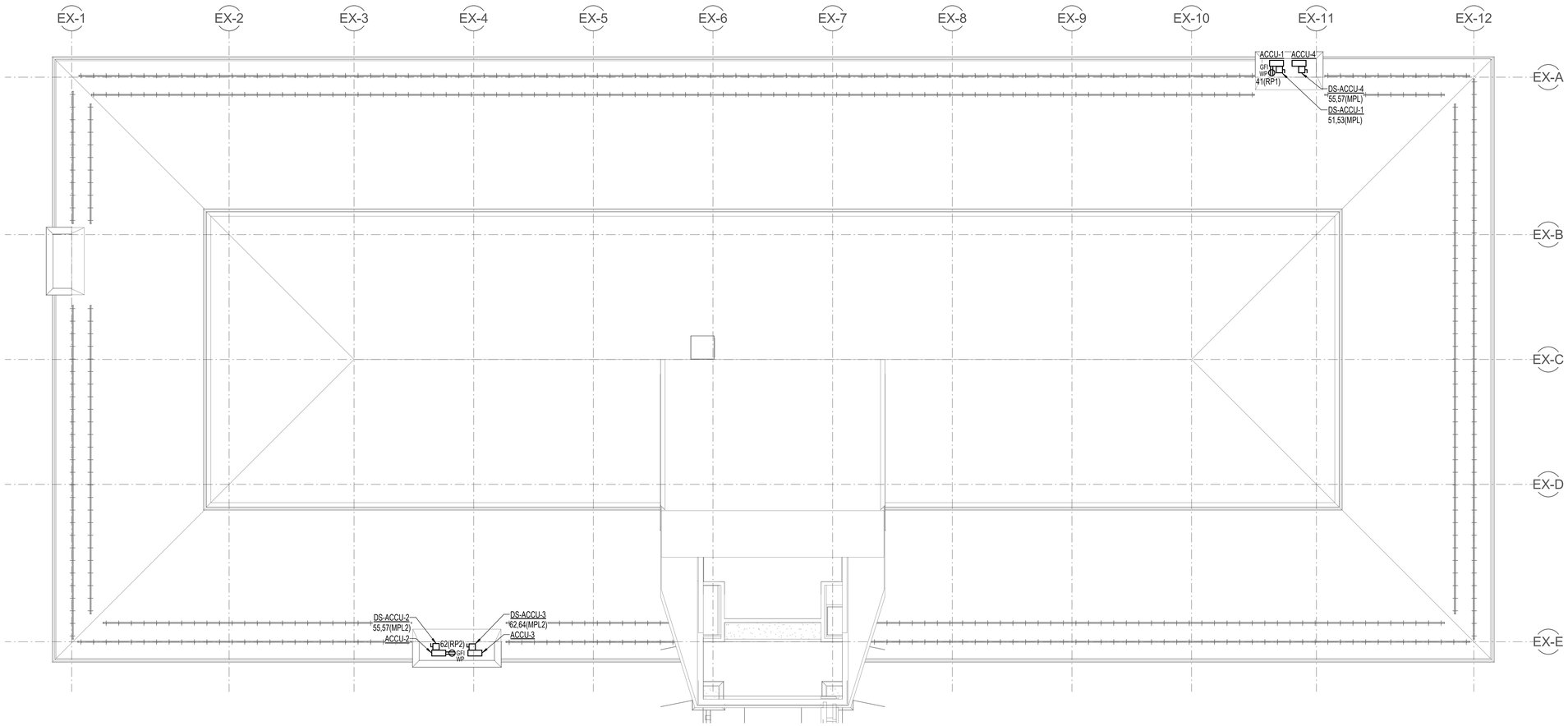
E202

SHEET 120 OF 172

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DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

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1 / E203 ROOF PLAN - POWER - NEW WORK
1/8" = 1'-0"

1/8" = 1'-0" 0 4 8 16 24 FT

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
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P: 410.877.6297 | F: 866.635.0374

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

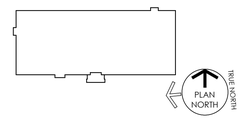
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	DESIGN DEVELOPMENT	05/01/2026
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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ROOF PLAN - POWER - NEW WORK

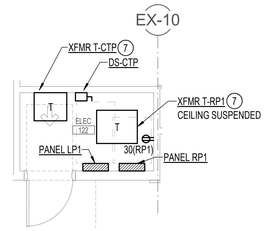
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E203

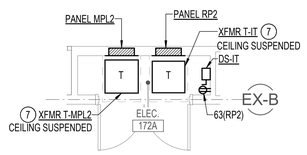
SHEET 121 OF 172

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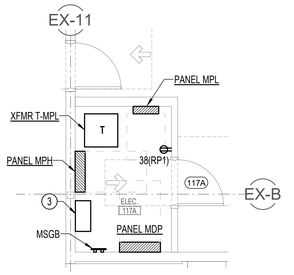
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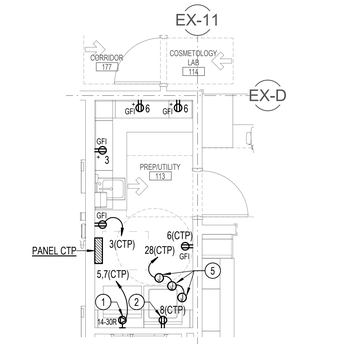
1 E401 PART PLAN - ELEC 122 - NEW WORK
1/4" = 1'-0"



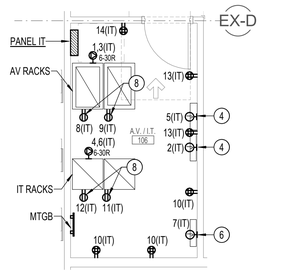
2 E401 PART PLAN - ELEC 172A - NEW WORK
1/4" = 1'-0"



3 E401 PART PLAN - ELEC 117A - NEW WORK
1/4" = 1'-0"



4 E401 PART PLAN - PREP/UTILITY 113 - NEW WORK
1/4" = 1'-0"



5 E401 PART PLAN - AV/IT 106 - NEW WORK
1/4" = 1'-0"

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. FOR DRYER.
2. FOR WASHER.
3. SPARE FUSE CABINET.
4. FOR ACCESS CONTROL PANEL.
5. FOR WATER SUB-METER.
6. FOR EMERGENCY RESPONDER COMMUNICATION ENHANCEMENT SYSTEM EQUIPMENT.
7. PROVIDE PERMANENT ENGRAVED PLACARD AT TRANSFORMER INDICATING LOCATION OF PRIMARY DISCONNECTING MEANS. PLACARD SHALL READ "PRIMARY DISCONNECTING MEANS LOCATED IN SWBD MDP IN MAIN ELECTRICAL ROOM"
8. FOR UPS. COORDINATE EXACT NEMA CONFIGURATION WITH UPS SHOP DRAWINGS.

1/4" = 1' - 0" 0 2 4 8 12 FT

11/5/2026 2:59:05 PM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/ACM-25-A009 - Electrical Central (2025).rvt

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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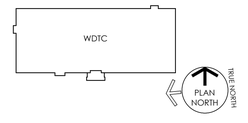
12401 WILLOWBROOK RD, SE
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ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL ENLARGED PLANS

SHEET NUMBER:

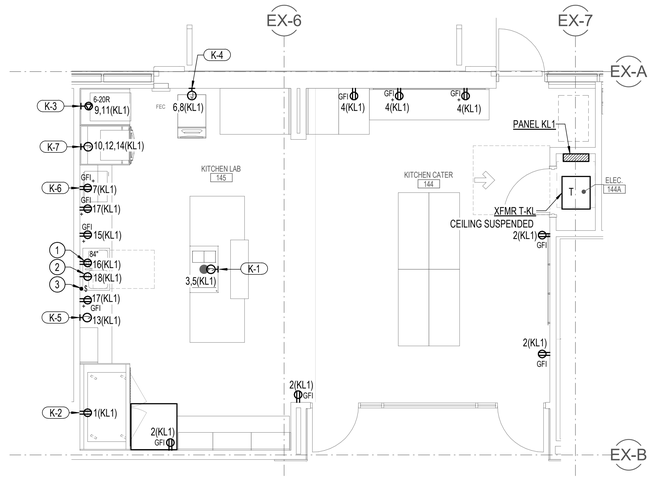
E401

SHEET 122 OF 172

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KITCHEN EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	MANUFACTURER	CATALOG NUMBER	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (KVA)	WIRING	CONNECTION TYPE	MOUNTING HEIGHT	NOTES
K-1	INDUCTION COOKTOP	JENNAIR	JIDT730SBL	6.9	-	-	40	33.2	208	1	6.90	2#8+#10EGC IN 3/4" C	HARDWIRED	-	-
K-2	REACH-IN REFRIGERATOR	EVEREST REFRIGERATION	EBR2	-	1/3	3.0	-	3.0	120	1	0.36	2#12+#12EGC IN 3/4" C	5-20	-	-
K-3	WARMING CABINET	BEVERAGE-AIR	PH1-1S	-	-	5.9	20	5.9	208	1	1.23	2#12+#12EGC IN 3/4" C	6-20R	-	-
K-4	ICE MACHINE	MANITOWOC	IDF-0900N	-	-	9.8	20	9.5	208	1	1.98	2#12+#12EGC IN 3/4" C	HARDWIRED	-	-
K-5	DISHWASHER	GENERAL ELECTRIC	PDT755SYVFS	-	-	7.8	20	7.8	120	1	0.94	2#12+#12EGC IN 3/4" C	5-20	-	-
K-6	MICROWAVE	GENERAL ELECTRIC	GCST11N1WSS	-	-	13	20	12.9	120	1	1.55	2#12+#12EGC IN 3/4" C	5-20	-	-
K-7	WALL OVEN	THERMADOR	POD302RW	-	-	42	40	47.1	208	1	9.80	2#8+#10EGC IN 3/4" C	HARDWIRED	-	-



1 E402 PART PLAN - KITCHEN CATER 144/ KITCHEN LAB 145 - NEW WORK
1/4" = 1'-0"

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. UNLESS OTHERWISE NOTED, ELECTRICAL ITEMS SHOWN BY SOLID HEAVY LINEWEIGHT (——) INDICATE NEW WORK TO BE PROVIDED. ELECTRICAL ITEMS SHOWN BY SOLID LIGHT LINEWEIGHT (——) INDICATE EXISTING ITEMS TO REMAIN.
2. INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER IN WRITING AND AWAIT WRITTEN DIRECTION BEFORE PROCEEDING WITH THE WORK.

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. FOR DISPLAY. COORDINATE MOUNTING HEIGHT WITH AUDIOVISUAL DRAWINGS. MOUNT RECEPTACLE WITHIN FSR BOX, REFER TO AUDIOVISUAL DRAWINGS.
2. FOR GARBAGE DISPOSAL. MOUNTED TO SUIT EQUIPMENT.
3. MOTOR RATED SWITCH FOR GARBAGE DISPOSAL. MOUNT 44" AFF TO CENTER OF DEVICE.

0 2 4 8 12 FT
1/4" = 1' - 0"

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

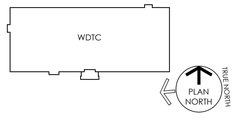
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL ENLARGED KITCHEN PLAN

SHEET NUMBER:

E402

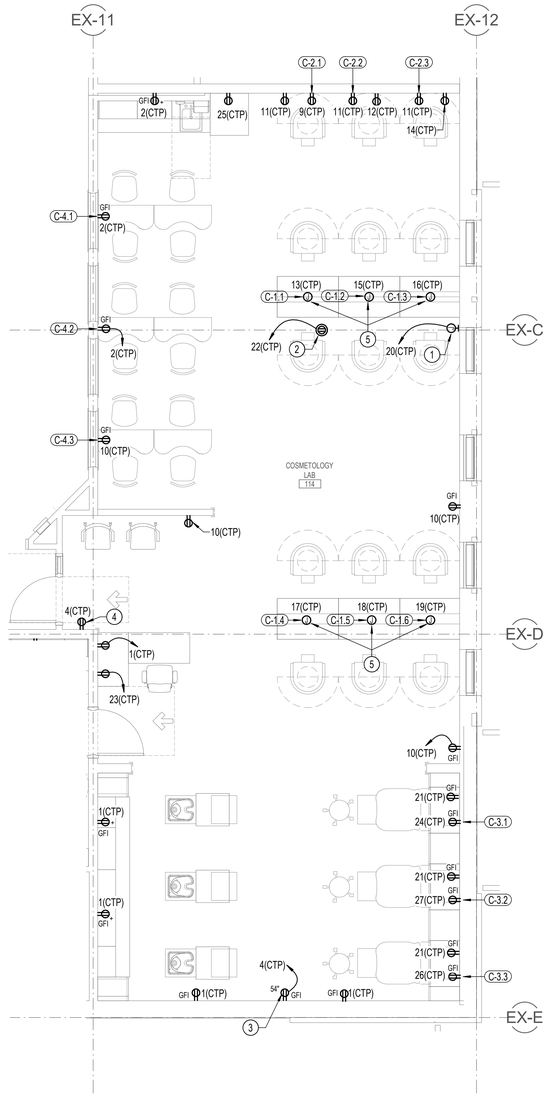
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COSMETOLOGY EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	EQUIPMENT DESCRIPTION	MANUFACTURER	CATALOG NUMBER	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (KVA)	WIRING	CONNECTION TYPE	MOUNTING HEIGHT	NOTES
C-1.1	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-1.2	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-1.3	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-1.4	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-1.5	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-1.6	MOBILE HAIR STYLING STATION	KAEMARK	-	-	-	-	20	6.0	120	1	0.72	2#12+#12EGC IN 3/4" C	HARDWIRED	-	2 QUAD RECEPTACLES
C-2.1	HAIR DRYERS	COLLINS	1620D	-	-	-	20	12.5	120	1	1.50	2#12+#12EGC IN 3/4" C	5-20R	-	-
C-2.2	HAIR DRYERS	COLLINS	1620D	-	-	-	20	12.5	120	1	1.50	2#12+#12EGC IN 3/4" C	5-20R	-	-
C-2.3	HAIR DRYERS	COLLINS	1620D	-	-	-	20	12.5	120	1	1.50	2#12+#12EGC IN 3/4" C	5-20R	18"	-
C-3.1	PEDICURE STATION	LEXOR	-	-	-	7	15	6.7	120	1	0.80	2#12+#12EGC IN 3/4" C	5-20R	18"	-
C-3.2	PEDICURE STATION	LEXOR	-	-	-	7	15	6.7	120	1	0.80	2#12+#12EGC IN 3/4" C	5-20R	18"	-
C-3.3	PEDICURE STATION	LEXOR	-	-	-	7	15	6.7	120	1	0.80	2#12+#12EGC IN 3/4" C	5-20R	18"	-
C-4.1	MANICURE STATION	-	-	-	-	1.5	20	1.5	120	1	0.18	2#12+#12EGC IN 3/4" C	5-20R	18"	CONVENIENCE RECEPTACLE
C-4.2	MANICURE STATION	-	-	-	-	1.5	20	1.5	120	1	0.18	2#12+#12EGC IN 3/4" C	5-20R	18"	CONVENIENCE RECEPTACLE
C-4.3	MANICURE STATION	-	-	-	-	1.5	20	1.5	120	1	0.18	2#12+#12EGC IN 3/4" C	5-20R	18"	CONVENIENCE RECEPTACLE



1 E403 PART PLAN - COSMETOLOGY LAB 114
1/4" = 1'-0"

1/4" = 1'-0" 0 2 4 8 12 FT

DRAWING NOTES: (APPLICABLE TO THIS SHEET ONLY)

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SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. CIRCUIT ALL DEVICES IN THIS SPACE TO PANEL CTP.
2. FOR PROJECTION SCREEN.
3. FOR PROJECTOR.
4. FOR PROJECTOR. PROVIDE RECEPTACLE IN RECESSED CEILING BOX. COORDINATE WITH AUDIOVISUAL DRAWINGS.
5. CONTRACTOR SHALL FLUSH MOUNT JUNCTION BOX IN SLAB (TYPICAL OF 6).

PROJECT TEAM

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Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

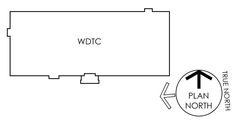
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL ENLARGED COSMETOLOGY LAB

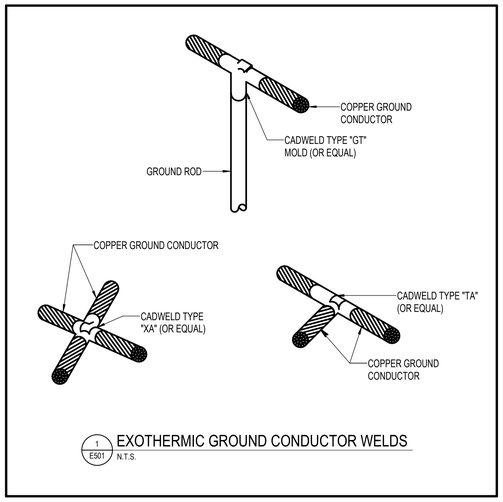
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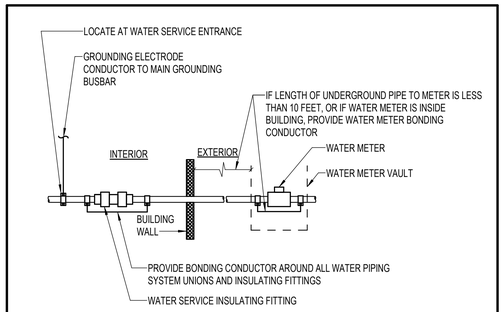
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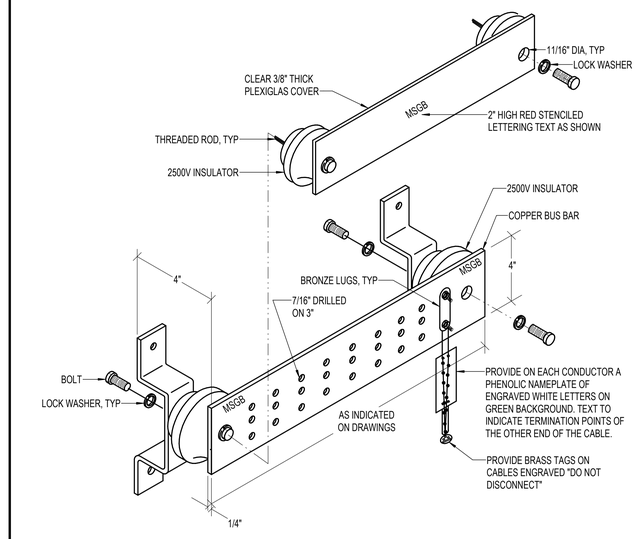


1 E501 EXOTHERMIC GROUND CONDUCTOR WELDS
N.T.S.



NOTE: SIZE BONDING AND GROUNDING CONDUCTORS IN ACCORDANCE WITH NEC BASED ON SIZE OF LARGEST UNGROUNDED SERVICE-ENTRANCE CONDUCTOR.

2 E501 METAL UNDERGROUND WATER PIPE GROUNDING ELECTRODE
N.T.S.



NOTES: (APPLY TO THIS DETAIL ONLY)
1. BUS BARS OVER 3' IN LENGTH REQUIRE ONE ADDITIONAL INSULATOR SUPPORT EVERY 3'.
2. MOUNT AT HEIGHT SCHEDULED.
3. PROVIDE METAL BACKING BEHIND SHEETROCK WALLS.
4. USE 3/8" DIAMETER EXPANSION BOLTS FOR MASONRY WALLS. USE 3/8" DIAMETER SPRING-WING TOGGLE BOLT FOR DRYWALL.

3 E501 MAIN GROUNDING BAR INSTALLATION
N.T.S.

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License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

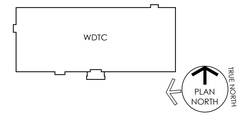
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL DETAILS

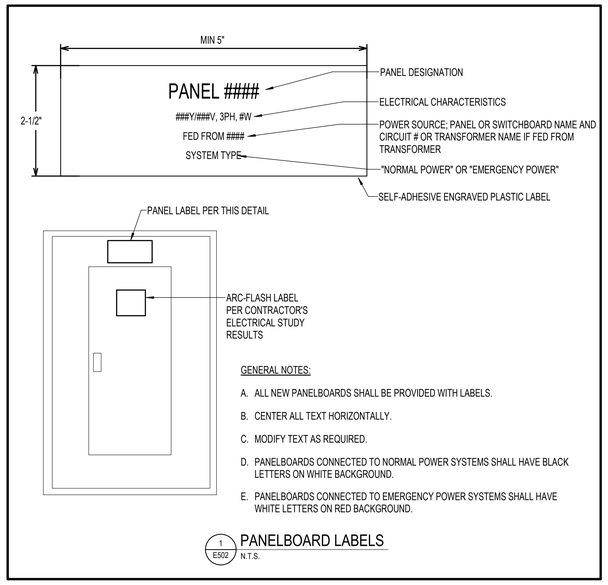
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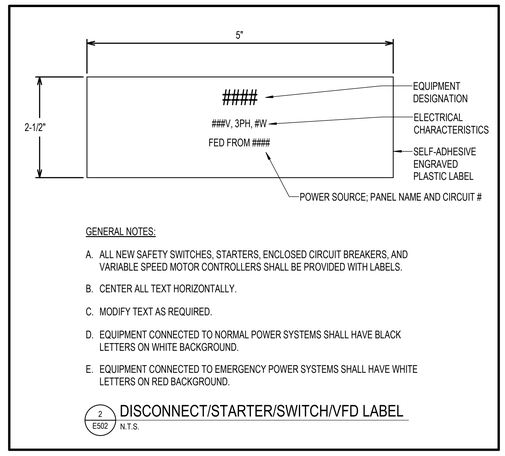
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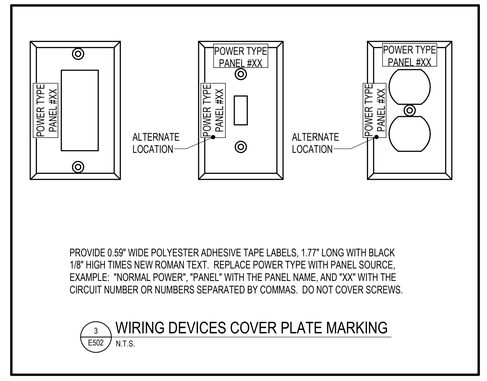
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PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

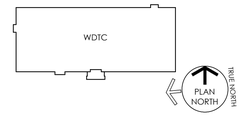
12401 WILLOWBROOK RD, SE
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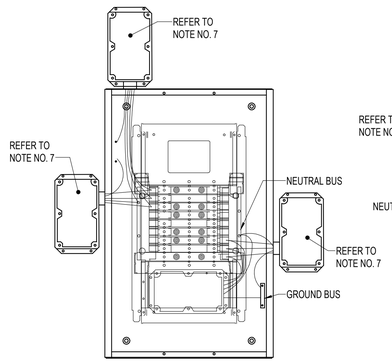
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DRAWN BY:	WC
CHK'D BY:	NTS

JOB NUMBER:	**25909 - DGS# CC-10-MC25-488**
ISSUE DATE:	**11/06/2026**
SHEET TITLE:	**ELECTRICAL DETAILS**
SHEET NUMBER:	**E502**

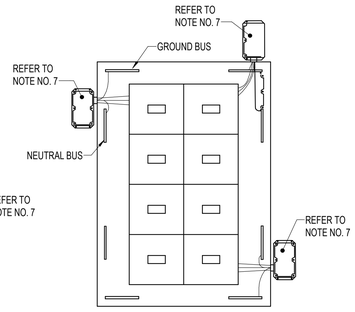
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BRANCH CIRCUIT PANELBOARD



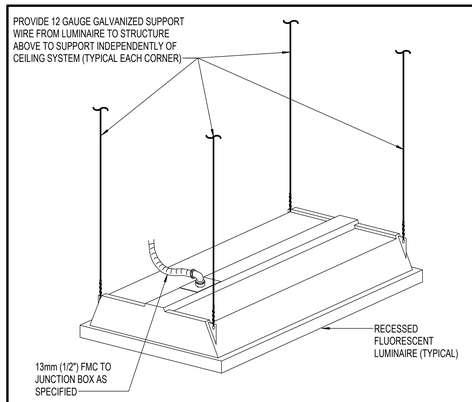
DISTRIBUTION PANELBOARD

NOTES: (APPLICABLE TO THIS DETAIL ONLY)

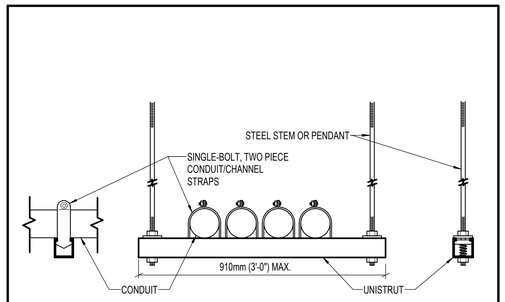
1. PROVIDE MULTIPOLE, 30 AMP DEDICATED CIRCUIT BREAKER TO SERVE AS DISCONNECT FOR SURGE PROTECTIVE DEVICE. COORDINATE WITH VOLTAGE CONFIGURATION OF PROTECTED EQUIPMENT.
2. FOR SERVICE ENTRANCE APPLICATIONS, INSTALL DEVICE ON LOAD SIDE OF SERVICE ENTRANCE AND BOND GROUND LEAD CONDUCTOR TO SERVICE ENTRANCE GROUND.
3. INSTALL CONDUCTORS BETWEEN SURGE PROTECTIVE DEVICE AND TERMINATION POINTS AS SHORT AND STRAIGHT AS POSSIBLE. DO NOT EXCEED MANUFACTURER'S RECOMMENDED CABLE LENGTH. DO NOT BOND NEUTRAL AND GROUND.
4. LOCATE SURGE PROTECTIVE DEVICE TO MINIMIZE CONDUCTOR LENGTHS BETWEEN SURGE PROTECTIVE DEVICE AND CIRCUIT BREAKER TO WHICH IT IS CONNECTED. ROUTE CONDUCTORS IN METAL CONDUIT USING RIGID NIPPLE. KEEP CONDUCTORS AS SHORT AND STRAIGHT AS POSSIBLE. WIRE SIZE FOR CONDUCTORS SHALL BE AS REQUIRED BY MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS: MINIMUM SIZE #10 AWG; MAXIMUM SIZE #4 AWG.
5. CONNECT SURGE PROTECTIVE DEVICE TO GROUNDING SYSTEM.
6. INSTALL CONDUCTORS FOR SURGE PROTECTIVE DEVICES NEATLY. BIND PHASE, NEUTRAL, AND GROUND CONDUCTORS TIGHTLY OVER ENTIRE LENGTH FROM SURGE PROTECTIVE DEVICE TO CIRCUIT BREAKER. USE THE SHORTEST LENGTH OF CONNECTING CABLE POSSIBLE.
7. EXTERNALLY MOUNTED SPD. WIRE CONNECTIONS SHOWN TO NEAREST BREAKER FOR DISCONNECT. MOUNT SPD ON EITHER SIDE, TOP OR BOTTOM OF PANEL.
8. REFER TO ONE-LINE DIAGRAM FOR PANELBOARDS THAT REQUIRE SURGE PROTECTIVE DEVICES.

SYMBOL SHOWN ON RISER/ONE-LINE DIAGRAM WHICH THIS DETAIL APPLIES: SPD

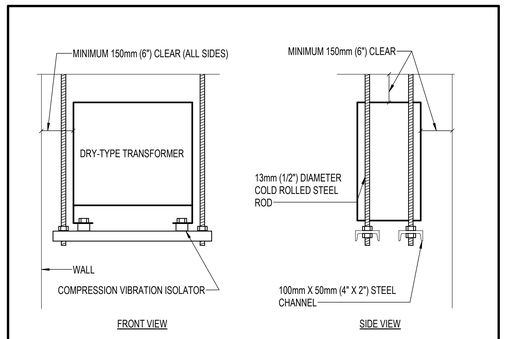
7 / E503 TYPICAL SURGE PROTECTIVE DEVICE INSTALLATION
N.T.S.



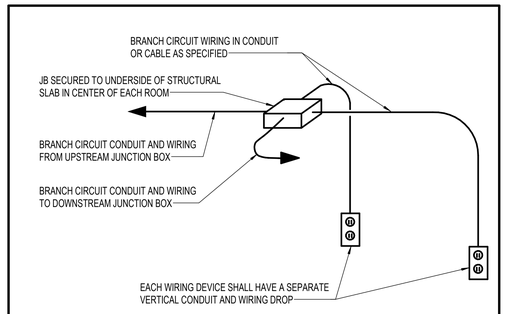
3 / E503 LUMINAIRE SUPPORT
N.T.S.



4 / E503 CONDUIT HANGER DETAIL
N.T.S.

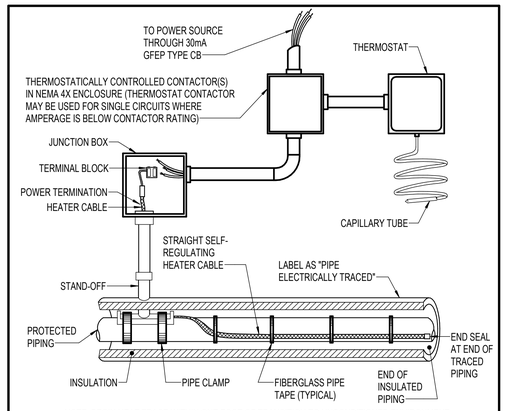


6 / E503 SUSPENDED TRANSFORMER MOUNTING
N.T.S.



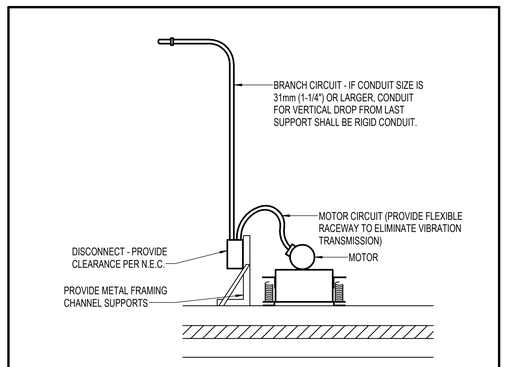
NOTE: CIRCUIT CONTINUITY TO BE MAINTAINED THROUGH CEILING MOUNTED JUNCTION BOX.

1 / E503 TYPICAL WIRING DEVICE INSTALLATION
N.T.S.



NOTE: BEGIN HEAT TRACE WITHIN ONE FOOT OF TRANSITION TO UNCONDITIONED ENVIRONMENT.

2 / E503 AMBIENT AIR SENSING PIPING HEAT TRACING
N.T.S.



5 / E503 TYPICAL MOTOR CONNECTION FED FROM OVERHEAD
N.T.S.

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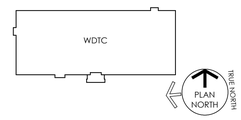
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL DETAILS

SHEET NUMBER:

E503

SHEET 127 OF 172

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FEEDER SCHEDULE

FEEDER TAG DESIGNATION	NOMINAL AMPERE RATING	NUMBER OF SETS	PHASE (A-B-C) CONDUCTOR	NEUTRAL CONDUCTOR	GROUND CONDUCTOR		CONDUIT SIZE		
			COPPER SIZE AWG/KCMIL	COPPER SIZE AWG/KCMIL	QUANTITY OF CONDUCTORS	COPPER SIZE AWG/KCMIL	(3P+G)	(3P+N+G)	(3P+2N+G) OR (3P+N+2G)
40.X	40	1	8	8	1	10	3/4"	1"	1"
45.X	45	1	6	6	1	10	1"	1"	1-1/4"
50.X	50	1	6	6	1	10	1"	1"	1-1/4"
60.X	60	1	4	4	1	10	1-1/4"	1-1/4"	1-1/4"
70.X	70	1	4	4	1	8	1-1/4"	1-1/4"	1-1/4"
80.X	80	1	3	3	1	8	1-1/4"	1-1/4"	1-1/2"
90.X	90	1	2	2	1	8	1-1/4"	1-1/2"	1-1/2"
100.X	100	1	1	1	1	8	1-1/2"	2"	2"
110.X	110	1	1	1	1	6	1-1/2"	2"	2"
125.X	125	1	1	1	1	6	1-1/2"	2"	2"
150.X	150	1	1/0	1/0	1	6	2"	2"	2"
175.X	175	1	2/0	2/0	1	6	2"	2"	2-1/2"
200.X	200	1	3/0	3/0	1	6	2"	2-1/2"	2-1/2"
225.X	225	1	4/0	4/0	1	4	2-1/2"	2-1/2"	3"
250.X	250	1	250	250	1	4	2-1/2"	3"	3"
300.X	300	1	350	350	1	4	3"	3"	3-1/2"
350.X	350	1	500	500	1	3	3-1/2"	3-1/2"	3-1/2"
400.X	400	2	3/0	3/0	1	3	2"	2-1/2"	2-1/2"
450.X	450	2	4/0	4/0	1	2	2-1/2"	2-1/2"	3"
500.X	500	2	250	250	1	2	2-1/2"	3"	3"
600.X	600	2	350	350	1	1	3"	3"	3-1/2"
700.X	700	2	500	500	1	1/0	3-1/2"	3-1/2"	4"
800.X	800	3	300	300	1	1/0	3"	3"	3-1/2"
XP30	45	1	6	-	1	10	1"	-	-
XS30	100	1	1	1	1	6	-	2"	-
XP45	70	1	4	-	1	8	-	1-1/4"	-
XS45	150	1	2/0	2/0	1	4	-	2"	-
XP75	115	1	2	-	1	6	2"	-	-
XS75	225	1	300	300	1	1/0	-	2-1/2"	-

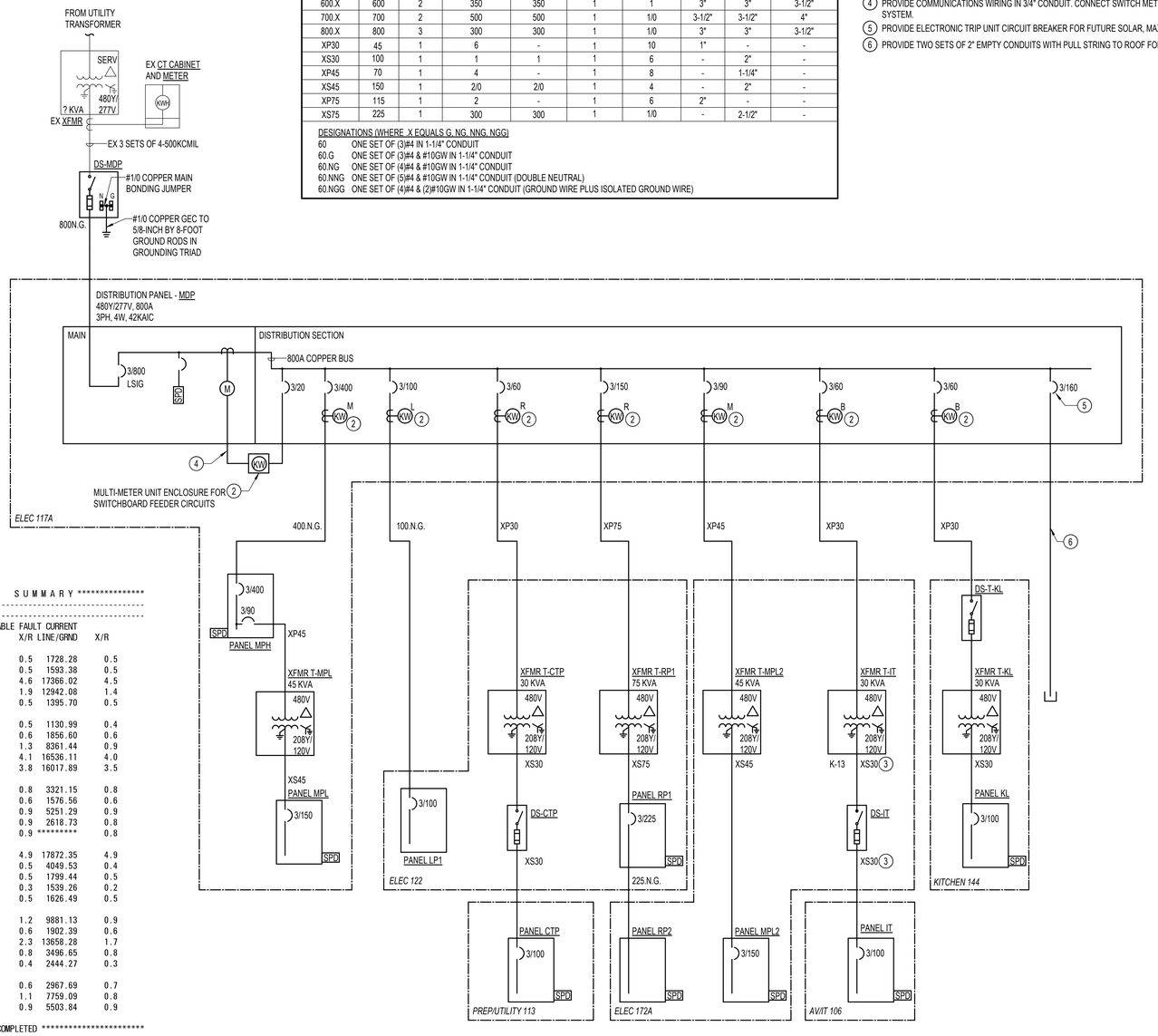
DESIGNATIONS (WHERE .X EQUALS G, NG, NNG, NGG)

60	ONE SET OF (3)#4 IN 1-1/4" CONDUIT
60.G	ONE SET OF (3)#4 & #10GW IN 1-1/4" CONDUIT
60.NG	ONE SET OF (4)#4 & #10GW IN 1-1/4" CONDUIT
60.NNG	ONE SET OF (5)#4 & #10GW IN 1-1/4" CONDUIT (DOUBLE NEUTRAL)
60.NGG	ONE SET OF (4)#4 & (2)#10GW IN 1-1/4" CONDUIT (GROUND WIRE PLUS ISOLATED GROUND WIRE)

SPECIAL NOTES: (APPLICABLE TO THIS SHEET ONLY)

1. CONNECT CT WIRING TO MULTI-METER UNIT ENCLOSURE FOR SWITCHBOARD FEEDER CIRCUITS.
2. ENERGY MONITORING OF VARIOUS LOAD TYPES IS REQUIRED IN ACCORDANCE WITH IECC 2021 SECTION C405.12 ENERGY MONITORING. THE FOLLOWING ENERGY END-USE CATEGORIES MUST BE METERED SEPARATELY:
   1. TOTAL ELECTRICAL ENERGY
   2. HVAC MECHANICAL SYSTEMS -M PANELS
   3. INTERIOR LIGHTING -L PANELS
   4. EXTERIOR LIGHTING -O PANELS
   5. RECEPTACLE CIRCUITS -R PANELS
   6. BUILDING MISCELLANEOUS -B PANELS

   THE ENERGY MONITORING SYSTEM MUST COMPLY WITH IECC 2021 SECTIONS C405.12, C405.12.1, C405.12.2, C405.12.3, C405.12.4, C405.12.5, ASHRAE 90.1-2019 SECTION 8.4.3.2, AND LEED V4 ADVANCED METERING REQUIRMENTS.
   METERS MUST BE PROVIDED TO COLLECT ENERGY USE DATA FOR EACH END-USE CATEGORY INDICATED ABOVE AND RECORD ENERGY CONSUMPTION (KWH), ENERGY DEMAND (KW), AND POWER FACTOR(PF). WHERE MULTIPLE METERS ARE USED TO MEASURE ANY END-USE CATEGORY, THE DATA ACQUISITION SYSTEM MUST TOTAL ALL OF THE ENERGY USED BY THAT CATEGORY. METERS MUST BE CONFIGURED TO AUTOMATICALLY COMMUNICATE ENERGY CONSUMPTION DATA TO THE DATA ACQUISITION SYSTEM. METERING SYSTEM AND EQUIPMENT MUST RECORD DATA EVERY 15 MINUTES AT MINIMUM AND HAVE THE CAPABILITY TO PROVIDE AT LEAST HOURLY DATA THAT IS FULLY INTEGRATED INTO THE DATA ACQUISITION SYSTEM AND GRAPHICAL ENERGY REPORT. THE DATA ACQUISITION SYSTEM MUST HAVE THE CAPABILITY TO STORE THE DATA FOR A MINIMUM OF 36 MONTHS. THE DATA ACQUISITION SYSTEM MUST HAVE THE CAPABILITY TO STORE REAL-TIME ENERGY CONSUMPTION DATA AND PROVIDE HOURLY, DAILY, MONTHLY, AND YEAR LOGGED DATA FOR EACH END-USE CATEGORY. A PERMANENT AND READILY ACCESSIBLE REPORTING MECHANISM SHALL BE PROVIDED IN THE BUILDING THAT IS ACCESSIBLE BY BUILDING OPERATION AND MANAGEMENT PERSONNEL. THE REPORTING MECHANISM MUST HAVE THE CAPABILITY TO GRAPHICALLY PROVIDE THE ENERGY CONSUMPTION FOR EACH END-USE CATEGORY AT LEAST EVERY HOUR, DAY, AND MONTH FOR THE PREVIOUS 36 MONTHS. THE DATA ACQUISITION SYSTEM MUST BE REMOTELY ACCESSIBLE OUTSIDE OF THE BUILDING AND TRANSMIT DATA TO A REMOTE LOCATION.
3. PROVIDE 200% NEUTRAL.
4. PROVIDE COMMUNICATIONS WIRING IN 3/4" CONDUIT. CONNECT SWITCH METER TO MULTIMETER MONITOR SYSTEM.
5. PROVIDE ELECTRONIC TRIP UNIT CIRCUIT BREAKER FOR FUTURE SOLAR, MAXIMUM SIZE 160A.
6. PROVIDE TWO SETS OF 2" EMPTY CONDUITS WITH PULL STRING TO ROOF FOR FUTURE SOLAR.




```
********** F A U L T   A N A L Y S I S   S U M M A R Y **********

BUS NAME          VOLTAGE    AVAILABLE FAULT CURRENT
                    L-L      3 PHASE    X/R  LINE/GRND   X/R

DS-CTP             208.        1687.6   0.5    1728.28   0.5
DS-IT              208.        1474.6   0.5    1593.38   0.5
DS-MDP             480.       17585.1   4.6   17366.02   4.5
DS-T-KL            480.       14777.5   1.9   12942.08   1.4
PANEL CTP          208.        1482.9   0.5    1395.70   0.5

PANEL IT           208.        1204.1   0.5    1130.99   0.4
PANEL KL1          208.        1837.0   0.6    1856.60   0.6
PANEL LP1          480.       10890.7   1.3    8361.44   0.9
PANEL MDP          480.       16996.1   4.1   16536.11   4.0
PANEL MPH          480.       16643.8   3.8   16017.89   3.5

PANEL MPL          208.        3293.1   0.8    3321.15   0.8
PANEL MPL2         208.        1812.2   0.6    1576.56   0.6
PANEL RP1          208.        4970.9   0.9    5251.29   0.9
PANEL RP2          208.        3138.5   0.9    2618.73   0.8
XFMR SERVICE P   13800.       ********   0.9  *********   0.8

XFMR SERVICE S     480.       17935.2   4.9   17872.35   4.9
XFMR T-CTP PRI     480.        6287.5   0.5    4049.53   0.4
XFMR T-CTP SEC     208.        1727.3   0.5    1799.44   0.5
XFMR T-IT PRI      480.        2560.0   0.3    1539.26   0.2
XFMR T-IT SEC      208.        1491.7   0.5    1626.49   0.5

XFMR T-KL PRI      480.       12535.3   1.2    9881.13   0.9
XFMR T-KL SEC      208.        1864.3   0.6    1902.39   0.6
XFMR T-MPL PRI     480.       15151.0   2.3   13658.28   1.7
XFMR T-MPL SEC     208.        3395.1   0.8    3496.65   0.8
XFMR T-MPL2 PR     480.        3946.3   0.4    2444.27   0.3

XFMR T-MPL2 SE     208.        2680.4   0.6    2967.69   0.7
XFMR T-RP1 PRI     480.       10394.0   1.1    7759.09   0.8
XFMR T-RP1 SEC     208.        5109.3   0.9    5503.84   0.9

********** FAULT ANALYSIS REPORT COMPLETED **********
```

3 / E601 ELECTRICAL ONE-LINE DIAGRAM - NEW WORK
N.T.S.

PROJECT TEAM

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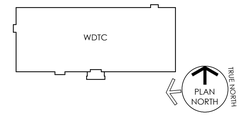
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NTS

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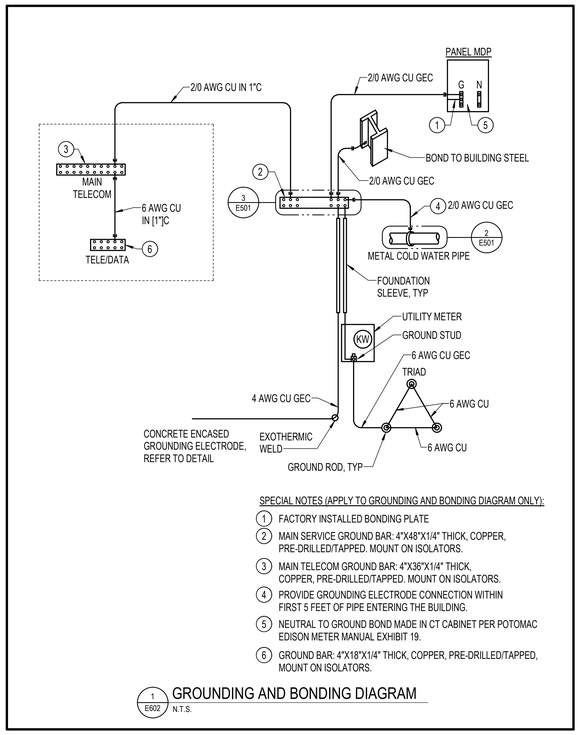
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SPECIAL NOTES (APPLY TO GROUNDING AND BONDING DIAGRAM ONLY):

1. FACTORY INSTALLED BONDING PLATE
2. MAIN SERVICE GROUND BAR: 4"X48"X1/4" THICK, COPPER, PRE-DRILLED/TAPPED. MOUNT ON ISOLATORS.
3. MAIN TELECOM GROUND BAR: 4"X36"X1/4" THICK, COPPER, PRE-DRILLED/TAPPED. MOUNT ON ISOLATORS.
4. PROVIDE GROUNDING ELECTRODE CONNECTION WITHIN FIRST 5 FEET OF PIPE ENTERING THE BUILDING.
5. NEUTRAL TO GROUND BOND MADE IN CT CABINET PER POTOMAC EDISON METER MANUAL EXHIBIT 19.
6. GROUND BAR: 4"X18"X1/4" THICK, COPPER, PRE-DRILLED/TAPPED, MOUNT ON ISOLATORS.

1 E602 GROUNDING AND BONDING DIAGRAM
N.T.S.

PROJECT TEAM

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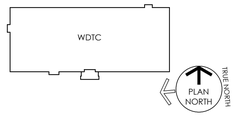
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GROUNDING AND BONDING DIAGRAM

SHEET NUMBER:

E602

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TYPICAL SPACE TYPE	LINE VOLTAGE CONTROL DEVICES: TOGGLE SWITCH(ES)	LINE VOLTAGE CONTROL DEVICES: CEILING/WALL MOUNTED OCCUPANCY SENSOR	LINE VOLTAGE CONTROL DEVICES: WALL BOX OCCUPANCY SENSOR(S) WITH SINGLE OUTPUT RELAY	LINE VOLTAGE CONTROL DEVICES: WALL BOX OCCUPANCY SENSOR(S) WITH DUAL OUTPUT RELAYS	LINE VOLTAGE CONTROL DEVICES: LUMINAIRE WITH BUILT-IN OCCUPANCY SENSOR	LOW VOLTAGE CONTROL DEVICES: DIGITAL SWITCH(ES)	LOW VOLTAGE CONTROL DEVICES: CEILING/WALL MOUNTED OCCUPANCY SENSORS	LOW VOLTAGE CONTROL DEVICES: INDOOR PHOTOSENSORS	LOW VOLTAGE CONTROL DEVICES: OUTDOOR PHOTOCELLS	LOW VOLTAGE CONTROL DEVICES: ASTRONOMICAL TIMECLOCK	SWITCHING/DIMMING: SWITCHING	SWITCHING/DIMMING: STEP-DIMMING	SWITCHING/DIMMING: FULL RANGE DIMMING	MISCELLANEOUS: OCCUPANCY SENSOR TIMEOUT/DELAY (IN MINUTES)	MISCELLANEOUS: LIGHTS MANUAL ON	MISCELLANEOUS: LIGHTS AUTOMATIC ON 100% LIGHT LEVEL UPON OCCUPANCY	MISCELLANEOUS: LIGHTS AUTO ON 50% UPON OCCUPANCY, 100% MANUAL ON	MISCELLANEOUS: TIMECLOCK SCHEDULED ON TIME	MISCELLANEOUS: TIMECLOCK SCHEDULED OFF TIME	MISCELLANEOUS: OCC. SENSOR OVERRIDE TIMECLOCK DURING OFF HOURS (2)	MISCELLANEOUS: DAYLIGHTING-DIM LIGHTS TO MAINTAIN MINIMUM 50FC AT 30"AFF (2)	MISCELLANEOUS: LIGHTS ALWAYS ON TO 50% UPON OCCUPANCY TO 100% (2)	MISCELLANEOUS: OCCUPANCY SENSOR CONTROL RECEPTACLES	NOTES
CORRIDORS / VESTIBULE	-	-	-	-	-	-	X	-	-	-	-	-	-	X	-	20	-	-	-	-	-	X	-	PILOT SWITCH.
LOBBY	-	-	-	-	-	-	X	-	-	-	-	-	-	X	-	20	-	-	-	-	-	X	-	PILOT SWITCH.
HALL	-	-	-	-	-	-	X	-	-	-	-	-	-	X	-	20	-	-	-	-	-	X	-	PILOT SWITCH.
HALL WITH WORKSTATION	-	-	-	-	-	-	X	-	-	-	-	-	-	X	-	20	-	-	-	-	-	X	X	PILOT SWITCH. REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
ELEC RM / ELEC CLOSET	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-
MECHANICAL	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-
CLERESTORY	X	-	-	-	-	-	-	-	-	-	-	X	-	-	-	-	X	-	-	-	-	-	-	-
A.V. / I.T.	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	X	-	-	-	-	-	-	-
SPRINKER	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	X	-	-	-	-	-	-	-
STORAGE ROOM	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	10	X	-	-	-	-	-	-	-
TABLE/CHAIR STORAGE	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	10	X	-	-	-	-	-	-	-
RECYCLING	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	10	X	-	-	-	-	-	-	-
CUSTODIAN	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	10	X	-	-	-	-	-	-	-
FAMILY	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	15	-	X	-	-	-	-	-	-
RESTROOM - SMALL	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	15	-	X	-	-	-	-	-	-
RESTROOM - PUBLIC	X	X	-	-	-	-	-	-	-	-	-	X	-	-	-	15	-	X	-	-	-	-	-	KEY SWITCH.
PREP/UTILITY	X	X	-	-	-	-	-	-	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-
LACTATION	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	X	-	-	-	-	-	-	-
WORK AREA	-	-	X	-	-	-	-	-	-	-	-	X	-	-	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
WORKSTATION	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
RECEPTION WORKSTATION	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
FLEX CLASSROOM - WITHOUT PHOTOCELL	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
FLEX CLASSROOM - WITH PHOTOCELL	-	-	-	-	-	-	X	X	X	-	-	-	-	X	-	20	X	-	-	-	X	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
CLASSROOM	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
SEMINAR	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
OFFICE	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
ADMIN	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
COMMUNITY-BASED TRANSITION PROGRAM	-	-	-	-	-	-	X	X	X	-	-	-	-	X	-	20	X	-	-	-	-	X	X	REFER TO E200 SERIES FOR CONTROLLED RECEPTACLES.
PHARM TECH LAB	-	-	-	-	-	-	X	X	X	-	-	-	-	X	-	20	X	-	-	-	-	X	-	-
NURSING LAB	-	-	-	-	-	-	X	X	X	-	-	-	-	X	-	20	X	-	-	-	-	X	-	-
COSMETOLOGY LAB	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-
KITCHEN LAB	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-
KITCHEN CATER	-	-	-	-	-	-	X	X	-	-	-	-	-	X	-	20	X	-	-	-	-	-	-	-
EXTERIOR - BUILDING ENTRY CANOPY	-	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	DUSK	DAWN	-	-	-	(1)
EXTERIOR - FACADE	-	-	-	-	-	-	-	-	-	X	X	-	X	-	-	-	-	-	-	DUSK	DAWN	-	-	-	(1)

SPECIAL NOTES: (APPLY TO THIS DRAWING ONLY)

(1) TIMECLOCK CONTROL SHALL BE THE PRIORITY CONTROL. IF OUTDOOR LIGHT LEVEL DROPS BELOW ACCEPTABLE LEVEL, PHOTOSENSOR SHALL TURN LIGHTS 'ON' EARLIER THAN SCHEDULED IN THE AFTERNOON/EVENING. IF LIGHT LEVEL IS NOT ADEQUATE IN THE MORNING WHEN LIGHTS ARE SCHEDULED TO TURN 'OFF', PHOTOSENSOR SHALL CONTROL LIGHTS TO REMAIN 'ON' UNTIL LIGHT LEVEL IS ADEQUATE.

(2) COORDINATE EXACT TIMES WITH OWNER.

COMcheck Software Version COMcheckWeb
Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 25-A009 ALLEGANY COLLEGE WORKFORCE CENTER
Project Type: Alteration
Exterior Lighting Zone: 2 (Neighborhood business district (LZ2))

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts /	D Tradable Wattage	E Allowed Watts (B X C)
Entry canopy	323 ft2	0.25	Yes	81
Illuminated area of facade wall or surface	4284 ft2	0.07	No	321
			Total Tradable Watts (a) =	81
			Total Allowed Watts =	402
			Total Allowed Supplemental Watts (b) =	400

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 400 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
Entry canopy (323 ft2): Tradable Wattage				
TYPE D1: Other:	1	23	8	182
Illuminated area of facade wall or surface (4284 ft2): Non-tradable Wattage				
TYPE D1E: Other:	1	2	8	16
TYPE D2: Other:	1	1	14	14
TYPE D2E: Other:	1	5	14	68
			Total Tradable Proposed Watts =	182

Exterior Lighting PASSES

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Weining Chang — Name - Title
Weining Chang — Signature
09/18/2026 — Date

COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information

Energy Code: 2021 IECC
Project Title: 25-A009 ALLEGANY COLLEGE WORKFORCE CENTER
Project Type: Alteration

Construction Site: Owner/Agent: Designer/Contractor:

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts
1-WORKFORCE TRAINING (School/University)	25846	0.72	18609
		Total Allowed Watts =	18609

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixture	D Fixture Watt.	E (C X D)
WORKFORCE TRAINING (School/University, 25846 sq.ft.)				
TYPE A: Other:	1	23	32	736
TYPE A1: Other:	1	160	52	8320
TYPE A1E: Other:	1	6	52	312
TYPE A2: Other:	1	6	31	186
TYPE A3: Other:	1	1	47	47
TYPE A3E: Other:	1	1	47	47
TYPE AE: Other:	1	16	32	512
TYPE B: Other:	1	18	38	684
TYPE B1: Other:	1	3	50	150
TYPE B1E: Other:	1	1	50	50
TYPE BE: Other:	1	4	38	152
TYPE C: Other:	1	6	18	110
TYPE D1: Other:	1	8	8	63
TYPE D1E: Other:	1	2	8	16
TYPE D2: Other:	1	8	14	110
TYPE D2E: Other:	1	8	14	110
TYPE DE: Other:	1	11	3	34
TYPE G: Other:	1	12	18	222
TYPE G1: Other:	1	17	26	434
TYPE GS2: Other:	1	6	32	191
TYPE GS2E: Other:	1	1	32	32
TYPE K: Other:	1	8	36	285
TYPE KE: Other:	1	3	36	107
TYPE LB1: Other:	1	22	15	328
TYPE LB1E: Other:	1	3	15	45
TYPE LB2: Other:	1	4	15	60
TYPE LW1: Other:	1	218	4	937
TYPE S1: Other:	1	4	24	96
TYPE W: Other:	1	8	18	143
			Total Proposed Watts =	14517

Interior Lighting PASSES

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2021 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Weining Chang — Name - Title
Weining Chang — Signature
09/18/2026 — Date

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

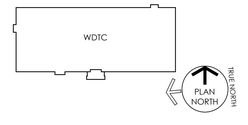
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

LIGHTING CONTROL MATRIX

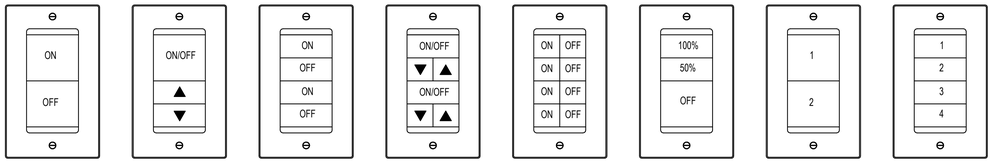
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LOW VOLTAGE SWITCH TYPE LV1 nLIGHT MODEL NPODM *3LV1

LOW VOLTAGE SWITCH TYPE LV1D nLIGHT MODEL NPODM DX *3LV1D

LOW VOLTAGE SWITCH TYPE LV2 nLIGHT MODEL NPODM 2P *3LV2

LOW VOLTAGE SWITCH TYPE LV2D nLIGHT MODEL NPODM 2P DX *3LV2D

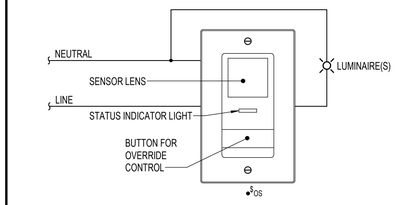
LOW VOLTAGE SWITCH TYPE LV4 nLIGHT MODEL NPODM 4P *3LV4

LOW VOLTAGE SWITCH TYPE LV1S nLIGHT MODEL NPODM 2L *3LV1S

LOW VOLTAGE SWITCH TYPE LV2SC nLIGHT MODEL NPODM 2S *3LV2SC

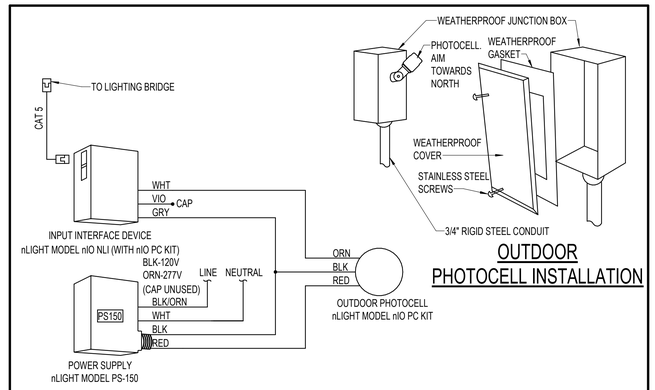
LOW VOLTAGE SWITCH TYPE LV4SC nLIGHT MODEL NPODM 4S *3LV4SC

4 E702 LOW VOLTAGE DIGITAL LIGHTING CONTROL SWITCHES
1/8" = 1'-0"



BASIS OF DESIGN PRODUCT: SENSOR SWITCH MODEL #WSX PDT
NOTE: GROUND WIRE NOT SHOWN, HOWEVER SHALL BE PROVIDED WITH ALL CIRCUIT WIRING PER NEC.

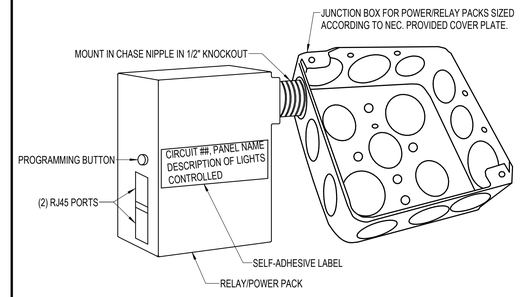
1 E702 OCCUPANCY SENSOR WALL SWITCH
1/8" = 1'-0"



OUTDOOR PHOTOCELL INSTALLATION

WIRING NOTE: PROVIDE GROUND WIRE WITH ALL LINE VOLTAGE WIRING.

3 E702 LIGHTING SYSTEM OUTDOOR PHOTOCELL INTERFACE
N.T.S.



2 E702 TYPICAL RELAY/POWER PACK INSTALLATION
N.T.S.

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

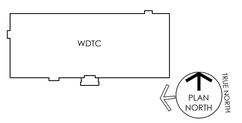
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

LIGHTING CONTROL DIAGRAMS

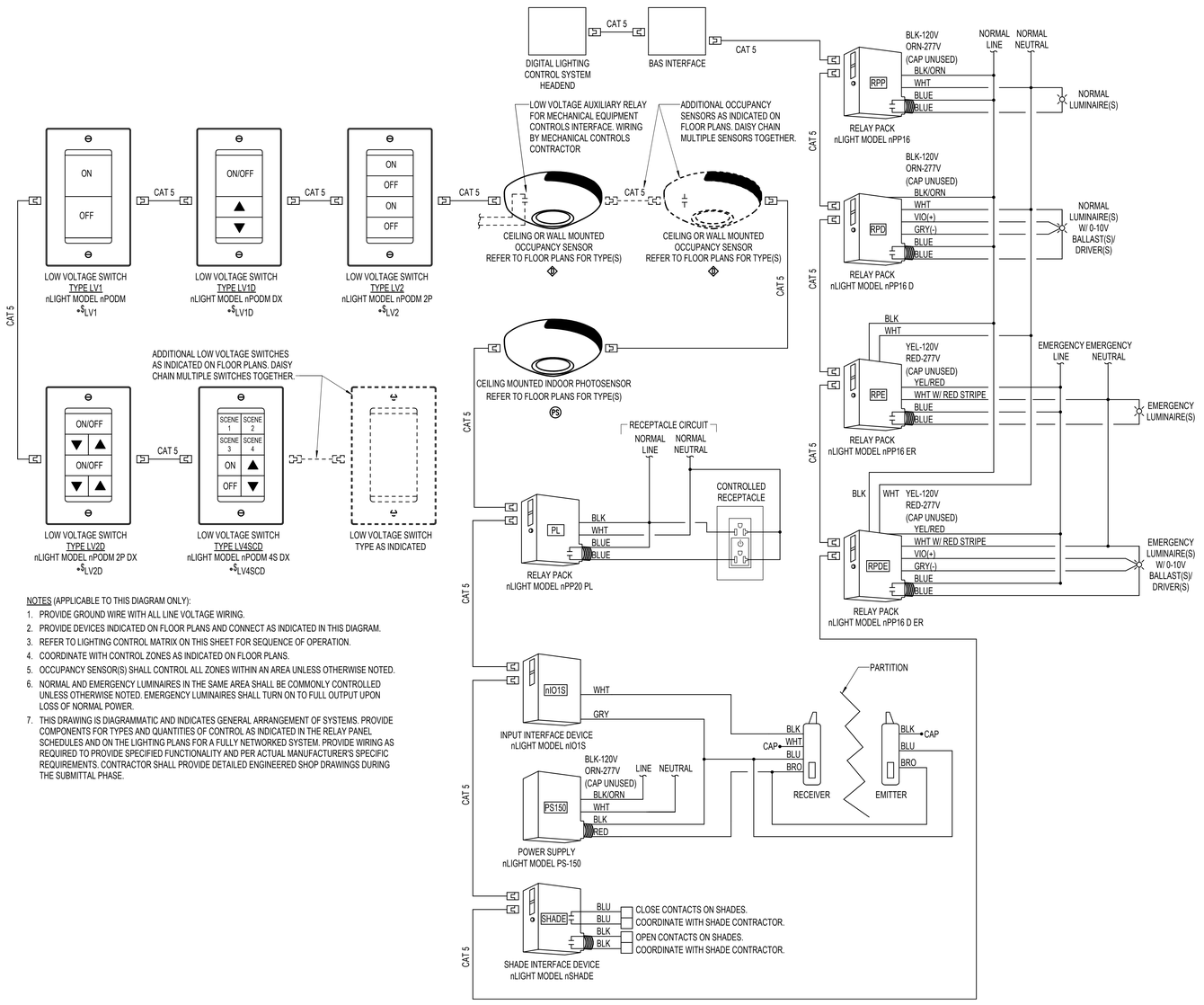
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NOTES (APPLICABLE TO THIS DIAGRAM ONLY):

1. PROVIDE GROUND WIRE WITH ALL LINE VOLTAGE WIRING.
2. PROVIDE DEVICES INDICATED ON FLOOR PLANS AND CONNECT AS INDICATED IN THIS DIAGRAM.
3. REFER TO LIGHTING CONTROL MATRIX ON THIS SHEET FOR SEQUENCE OF OPERATION.
4. COORDINATE WITH CONTROL ZONES AS INDICATED ON FLOOR PLANS.
5. OCCUPANCY SENSOR(S) SHALL CONTROL ALL ZONES WITHIN AN AREA UNLESS OTHERWISE NOTED.
6. NORMAL AND EMERGENCY LUMINAIRES IN THE SAME AREA SHALL BE COMMONLY CONTROLLED UNLESS OTHERWISE NOTED. EMERGENCY LUMINAIRES SHALL TURN ON TO FULL OUTPUT UPON LOSS OF NORMAL POWER.
7. THIS DRAWING IS DIAGRAMMATIC AND INDICATES GENERAL ARRANGEMENT OF SYSTEMS. PROVIDE COMPONENTS FOR TYPES AND QUANTITIES OF CONTROL AS INDICATED IN THE RELAY PANEL SCHEDULES AND ON THE LIGHTING PLANS FOR A FULLY NETWORKED SYSTEM. PROVIDE WIRING AS REQUIRED TO PROVIDE SPECIFIED FUNCTIONALITY AND PER ACTUAL MANUFACTURER'S SPECIFIC REQUIREMENTS. CONTRACTOR SHALL PROVIDE DETAILED ENGINEERED SHOP DRAWINGS DURING THE SUBMITTAL PHASE.

1 / E703 DIGITAL LIGHTING CONTROL SYSTEM
N.T.S.

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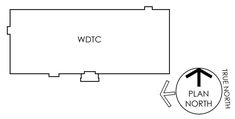
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Maryland DEPARTMENT OF GENERAL SERVICES

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LIGHTING CONTROL DIAGRAMS

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SHEET 132 OF 172

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LUMINAIRE SCHEDULE

TYPE	MOUNTING	LUMINAIRE DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP						DRIVER / BALLAST			VOLTAGE	INPUT WATTS	NOTES
					TYPE	CRI	CCT	QTY	WATTS / LAMP	LUMENS / LAMP	TYPE	QTY	BALLAST FACTOR			
A	RECESSED	2X2 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-90CRI-40K-4000LM-MIN1-MVOLT-SWC-FINISH	LED	90	4000K	1	32	3960	0-10V	1	-	277	32	-
AE	RECESSED	2X2 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC. EQUIPPED WITH EMERGENCY BATTERY PACK, SELF-DIAGNOSTIC, AND INTEGRAL TEST SWITCH.	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-90CRI-40K-4000LM-MIN1-MVOLT-SWC-FINISH-E10W	LED	90	4000K	1	32	3960	0-10V	1	-	277	32	-
A1	RECESSED	2X2 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC. EQUIPPED WITH EMERGENCY BATTERY PACK, SELF-DIAGNOSTIC, AND INTEGRAL TEST SWITCH.	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-90CRI-40K-6500LM-MIN1-MVOLT-SWC-FINISH	LED	90	4000K	1	52	6433	0-10V	1	-	277	52	-
A1E	RECESSED	2X2 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC. EQUIPPED WITH EMERGENCY BATTERY PACK, SELF-DIAGNOSTIC, AND INTEGRAL TEST SWITCH.	MARK ARCHITECTURAL LIGHTING	WHSPR-2X2-90CRI-40K-6500LM-MIN1-MVOLT-SWC-FINISH-E10W	LED	90	4000K	1	52	6433	0-10V	1	-	277	52	-
A2	RECESSED	2X4 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-90CRI-40K-4000LM-MIN1-MVOLT-SWC-FINISH	LED	90	4000K	1	31	4326	0-10V	1	-	277	31	-
A3	RECESSED	2X4 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-90CRI-40K-6000LM-MIN1-MVOLT-SWC-FINISH	LED	90	4000K	1	47	6033	0-10V	1	-	277	47	-
A3E	RECESSED	2X4 GRID LED LIGHT FIXTURE, SOFT WHITE ACRYLIC. EQUIPPED WITH EMERGENCY BATTERY PACK, SELF-DIAGNOSTIC, AND INTEGRAL TEST SWITCH.	MARK ARCHITECTURAL LIGHTING	WHSPR-2X4-90CRI-40K-6000LM-MIN1-MVOLT-SWC-FINISH-E10W	LED	90	4000K	1	47	6033	0-10V	1	-	277	47	-
B	SUSPENDED	PENDANT CATENARY LED LIGHT FIXTURE MADE OF CORROSION RESISTANT 356 ALUMINUM ALLOY IN A WHITE UV STABILIZED HIGH IMPACT ACRYLIC SEALED CYLINDER HOUSING	LUMINIS	CL822-L4L40-40K-277-CAT3-110IN-FINISH	LED	80	4000K	1	38	4333	0-10V	1	-	277	38	MOUNTED AT 13'-0" AFF
BE	SUSPENDED	PENDANT CATENARY LED LIGHT FIXTURE MADE OF CORROSION RESISTANT 356 ALUMINUM ALLOY IN A WHITE UV STABILIZED HIGH IMPACT ACRYLIC SEALED CYLINDER HOUSING WITH INTEGRAL EMERGENCY BATTERY.	LUMINIS	CL822-L4L40-40K-277-CAT3-110IN-EM10-FINISH	LED	80	4000K	1	38	4333	0-10V	1	-	277	38	MOUNTED AT 13'-0" AFF
B1	SUSPENDED	PENDANT CATENARY LED LIGHT FIXTURE MADE OF CORROSION RESISTANT 356 ALUMINUM ALLOY IN A WHITE UV STABILIZED HIGH IMPACT ACRYLIC SEALED CYLINDER HOUSING	LUMINIS	CL822-L4L50-40K-277-CAT3-110IN-FINISH	LED	80	4000K	1	50	5581	0-10V	1	-	277	50	MOUNTED AT 13'-0" AFF
B1E	SUSPENDED	PENDANT CATENARY LED LIGHT FIXTURE MADE OF CORROSION RESISTANT 356 ALUMINUM ALLOY IN A WHITE UV STABILIZED HIGH IMPACT ACRYLIC SEALED CYLINDER HOUSING WITH INTEGRAL EMERGENCY BATTERY.	LUMINIS	CL822-L4L50-40K-277-CAT3-110IN-EM10-FINISH	LED	80	4000K	1	50	5581	0-10V	1	-	277	50	MOUNTED AT 13'-0" AFF
C	SURFACE	SURFACE MOUNTED 1X2 STRIP LED LIGHT	LITHONIA	CLX-1X2-2500LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH	LED	80	4000K	1	18.4	2372	0-10V	1	-	277	18.4	-
D1	RECESSED	LED RECESSED DOWNLIGHT. BUG RATING OF B1-U0-G0.	GOTHAM	EVO4-40/07-AR-LSS-MWD-MVOLT-GZ10	LED	85	4000K	1	7.9	808	0-10V	1	-	277	7.9	-
D1E	RECESSED	LED RECESSED DOWNLIGHT. EQUIPPED WITH EMERGENCY BATTERY PACK AND SELF-DIAGNOSTICS, REMOTE TEST SWITCH. B1-U0-G0.	GOTHAM	EVO4-40/07-AR-LSS-MWD-MVOLT-GZ10-ELSD	LED	85	4000K	1	7.9	808	0-10V	1	-	277	7.9	-
D2	RECESSED	LED RECESSED DOWNLIGHT. BUG RATING OF B1-U0-G0.	GOTHAM	EVO4-40/15-AR-LSS-WD-MVOLT-GZ10	LED	85	4000K	1	13.7	1527	0-10V	1	-	277	13.7	-
D2E	RECESSED	LED RECESSED DOWNLIGHT. EQUIPPED WITH EMERGENCY BATTERY PACK AND SELF-DIAGNOSTICS, REMOTE TEST SWITCH. BUG RATING OF B1-U0-G0.	GOTHAM	EVO4-40/15-AR-LSS-WD-MVOLT-GZ10-ELSD	LED	85	4000K	1	13.7	1527	0-10V	1	-	277	13.7	-
DE	RECESSED	LED RECESSED DOWNLIGHT. EQUIPPED WITH EMERGENCY BATTERY PACK AND SELF-DIAGNOSTICS, REMOTE TEST SWITCH	GOTHAM	EVO4-40/02-AR-LSS-MWD-MVOLT-GZ10-ELSD	LED	85	4000K	1	3.1	271	0-10V	1	-	277	3.1	-
EBU	WALL	EMERGENCY LUMINARIES, THERMOPLASTIC HOUSING, SCRATCH-RESISTANT, AND CORROSION PROOF, BATTERY PACK AND SELF DIAGNOSTICS OPTION	LITHONIA	ELM6L-UVOLT-LTP-SDRT-HO	LED	80	5000K	2	5.3	-	CONSTANT	1	-	277	10.6	-
G	SURFACE	LED LINEAR STRIP LIGHT	LITHONIA	CLX-L48-3000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH	LED	80	4000K	1	18.5	2985	0-10V	1	-	277	18.5	-
G1	SURFACE	LED LINEAR STRIP LIGHT	LITHONIA	CLX-L48-4000LM-SEF-FDL-MVOLT-GZ10-40K-80CRI-WH	LED	80	4000K	1	25.5	3955	0-10V	1	-	277	25.5	-
GS2	SUSPENDED	LED LINEAR STRIP LIGHT	LITHONIA	CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-WH / SQ_XX	LED	80	4000K	1	31.8	4801	0-10V	1	-	277	31.8	MOUNTED AT 11'-0"
GS2E	SUSPENDED	LED LINEAR STRIP LIGHT	LITHONIA	CLX-L48-5000LM-SEF-WDL-MVOLT-GZ10-40K-80CRI-PS1050-WH / SQ_XX	LED	80	4000K	1	31.8	4801	0-10V	1	-	277	31.8	MOUNTED AT 11'-0"
K	RECESSED	2X2 LED LIGHT FIXTURE	LITHONIA	CPXIP-2X2-5000LM-80CRI-40K-PCSWM-MIN10-MVOLT	LED	80	4000K	1	35.6	4940	0-10V	1	-	277	35.6	-
KE	RECESSED	2X2 LED LIGHT FIXTURE WITH BATTERY BACKUP	LITHONIA	CPXIP-2X2-5000LM-80CRI-40K-PCSWM-MIN10-MVOLT-E7W	LED	80	4000K	1	35.6	4940	0-10V	1	-	277	35.6	-
LB1	RECESSED	LINEAR LED, WOOD CEILING SLATE. 4 FOOT IN LENGTH	AXIS LIGHTING	SL2-450-80-40-SO-4FT-FINISH-UNV-DP-1-UB	LED	80	4000K	1	14.9	1800	0-10V	1	-	277	14.9	-
LB1E	RECESSED	LINEAR LED, WOOD CEILING SLATE.4 FOOT LENGTH. REMOTE BATTERY PACK.	AXIS LIGHTING	SL2-450-80-40-SO-4FT-FINISH-UNV-DP-1-UB-BR	LED	80	4000K	1	14.9	1800	0-10V	1	-	277	14.9	-
LB2	RECESSED	LINEAR LED, WOOD CEILING SLATE. 2 FOOT LENGTH	AXIS LIGHTING	SL2-450-80-40-SO-2FT-FINISH-UNV-DP-1-UB	LED	80	4000K	1	14.9	900	0-10V	1	-	277	7.45	-
LW1	WALL	WALL MOUNTED LINEAR DIRECT AND INDIRECT LED LIGHT FIXTURE.	MARK ARCHITECTURAL LIGHTING	SZWID-LSL-LENGTH-MSL2-80CRI-40K-300LMF-I80CRI-I40K-I300LMF-SCT-MIN10-FLL-DC-MVOLT-FINISH	LED	80	4000K	PER FT	4.33W/FT	271/315LU/FT	0-10V	1	-	277	4.33W/FT	-
S1	SURFACE	EXTERIOR WALL SCONCE	LUMINIS	LUMISTIK-CL324-L4RGBW-FLDD-40K-277-SWK-BZT	LED	80	4000K	-	24.0	107	CONSTANT	1	-	277	24	-
W	WALL	2' LINEAR BATH ROOM LIGHT FIXTURE.	LITHONIA	FMVCSL-24IN-MVOLT-30K35K40K-90CRI-BN	LED	90	30K/35K/40K	1	17.92W	1550	CONSTANT	1	-	277	17.92W	-
X	SURFACE	COMMON AREA EXIT SIGN WITH INTEGRAL BATTERY PACK AND SELF-DIAGNOSTICS	LITHONIA	EDG & EDGR-EL-SD	LED	80	3000K	1	2.5	-	CONSTANT	1	-	277	2.5	-

NOTES: (APPLICABLE TO LUMINAIRE SCHEDULE ONLY)

1. LAMP TYPES ARE INDICATED BY INDUSTRY GENERIC DESIGNATIONS; SEE SPECIFICATIONS FOR APPROVED MANUFACTURERS.
2. CATALOG NUMBERS FOR LUMINAIRES INDICATE THE TYPE AND QUALITY OF THE LUMINAIRE TO BE PROVIDED BY THE CONTRACTOR AND ARE GENERAL IN NATURE. THE CATALOG NUMBERS ARE NOT INTENDED TO INDICATE AN ACTUAL ORDER MODEL NUMBER. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE LUMINAIRES WITH THE TYPE OF LAMP, BALLAST, LENS OR DIFFUSER, AND CONSTRUCTION FEATURES AS INDICATED IN THE SPECIFICATIONS.
3. WHERE A LUMINAIRE IS NOTED AS "NO EQUAL," SUBSTITUTIONS WILL NOT BE ACCEPTED. EQUIVALENT LUMINAIRES WILL BE ACCEPTED PROVIDED THEY ARE PROVEN TO BE EQUAL TO, OR BETTER THAN, THE SPECIFIED LUMINAIRE IN ALL RESPECTS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, CONSTRUCTION FEATURES, APPEARANCE, AND PERFORMANCE. SUBMIT THE FOLLOWING FOR EACH PROPOSED SUBSTITUTION:
   A. SAMPLE OF PROPOSED EQUIVALENT LUMINAIRE FOR TABLE-TOP EVALUATION. SAMPLE SHALL BE AN EXACT MATCH TO THE PROPOSED SUBSTITUTION INCLUDING ALL FEATURES, FINISHES, LAMPING, OPTIONS, ACCESSORIES, MOUNTING BRACKETS, ETC. SAMPLE SHALL INCLUDE 120V CORD AND NEMA 5-20P PLUG FOR OPERATIONAL TEST DURING TABLE-TOP EVALUATION.
   B. POINT-BY-POINT LIGHT LEVEL CALCULATIONS IN 3-DIMENSIONAL LIGHTING CALCULATION SOFTWARE TO ILLUSTRATE GUARANTEED ILLUMINATION LEVELS. EACH SPACE AFFECTED BY A SUBSTITUTION SHALL BE MODELED AND CALCULATED USING INDUSTRY STANDARD VALUES FOR REFLECTANCES, LIGHT LOSS FACTOR, ETC. ENGINEER WILL COMPARE TO BASIS OF DESIGN LUMINAIRE AND ENGINEER'S CALCULATIONS TO APPROVE OR REJECT SUBSTITUTE LUMINAIRE. PROVIDE IES FILE TO ENGINEER FOR PROPOSED SUBSTITUTE ALONG WITH CALCULATION RESULTS.
   C. POINT-BY-POINT COMPARATIVE DATA IN SIDE-BY-SIDE FORMAT COMPARING FEATURES OF SUBSTITUTE LUMINAIRE TO BASIS-OF-DESIGN LUMINAIRE.
   D. ALL REQUIREMENTS OF DIVISION 1 SECTION "SUBSTITUTION PROCEDURES."
4. COORDINATE CONTROL COMPATIBILITY BETWEEN BALLAST/DRIVER TYPES FOR ALL DIMMED LUMINAIRES WITH MANUFACTURER AND MODEL OF DIMMING CONTROL DEVICES.
5. PROVIDE EXIT SIGNS WITH SINGLE FACE OR DOUBLE FACE AND WITH OR WITHOUT CHEVRONS AS INDICATED ON THE DRAWINGS. PROVIDE RED LETTERING.
6. ALL MOUNTING HEIGHTS SHALL BE AS INDICATED ON THE DRAWINGS OR AS DIRECTED BY THE ARCHITECT OR ENGINEER. MOUNTING HEIGHTS OF WALL MOUNTED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE CENTERLINE OF THE LUMINAIRE. MOUNTING HEIGHTS OF CEILING SUSPENDED LUMINAIRES SHALL BE MEASURED FROM THE FINISHED FLOOR TO THE BOTTOM OF THE LUMINAIRE.

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

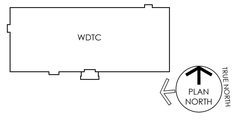
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE: **LUMINAIRE SCHEDULE**
SHEET NUMBER: **E801**
SHEET 133 OF 172

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11/5/2025 2:58:10 PM Autodesk Docs://25909 Allegany College of MD ACAA WTDC Renovation/WA 25-A009 - Electrical Central (2025).rvt

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING	DISCONNECTING MEANS	CONTROL MEANS	NOTES	Panel	Circuit Number
ACCU-1	-	-	21.4	25	17.1	208	1	3.56	2#10+#10EGC IN 3/4"C	DS-ACCU-1	BY MECHANICAL	1,2,3	MPL	51,53
ACCU-2	-	-	21.4	25	17.1	208	1	3.56	2#10+#10EGC IN 3/4"C	DS-ACCU-2	BY MECHANICAL	1,2,3	MPL2	55,57
ACCU-3	-	-	21.4	25	17.1	208	1	3.56	2#10+#10EGC IN 3/4"C	DS-ACCU-3	BY MECHANICAL	1,2,3	MPL2	62,64
ACCU-4	-	-	21.4	25	17.1	208	1	3.56	2#10+#10EGC IN 3/4"C	DS-ACCU-4	BY MECHANICAL	1,2,3	MPL	55,57
ACU-1	-	-	-	-	0.0	208	1	0.00	3(2 POWER + 1 CONTROL)#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2,3	MPL	51,53
ACU-2	-	-	-	-	0.0	208	1	0.00	3(2 POWER + 1 CONTROL)#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2,3	MPL2	55,57
ACU-3	-	-	-	-	0.0	208	1	0.00	3(2 POWER + 1 CONTROL)#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2,3	MPL2	62,64
ACU-4	-	-	-	-	0.0	208	1	0.00	3(2 POWER + 1 CONTROL)#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2,3	MPL	55,57
BS-1.1	-	-	1.2	15	0.9	208	1	0.19	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	38,40
BS-1.2	-	-	1.2	15	0.9	208	1	0.19	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	34,36
BS-1.3	-	-	1.2	15	0.9	208	1	0.19	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	30,32
BS-1.4	-	-	1.9	15	1.5	208	1	0.31	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	29,31
BS-2.1	-	-	1.2	15	0.9	208	1	0.19	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	10,12
BS-2.2	-	-	1.5	15	1.5	208	1	0.31	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	31,33
BS-2.3	-	-	1.5	15	1.5	208	1	0.31	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	54,56
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	23
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	23
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	23
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	23
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	37
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	37
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	37
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	37
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	37
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	24
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	24
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	24
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	41
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	41
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	41
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	41
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	18
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	18
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	18
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	18
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	6
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	6
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	9
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	11
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	11
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	11
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	9
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	9
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	9
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	41
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	9
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	35
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	35
CP-1	-	1/30	-	-	1.5	120	1	0.18	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	35
CU-1	-	-	55	70	51.6	480	3	42.90	3#4+#8EGC IN 1"C	DS-CU-1	BY MECHANICAL	1,2	MPH	1
DOAS-1-RF	-	-	9	15	7.2	480	3	5.99	3#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPH	8
DOAS-1-SF	-	-	11.6	20	9.3	480	3	7.72	3#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPH	9

MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE

EQUIPMENT DESIGNATION	KW	HP	MCA	MOCP	FLA	VOLTAGE	PHASE	LOAD (kVA)	WIRING	DISCONNECTING MEANS	CONTROL MEANS	NOTES	Panel	Circuit Number
DWH-1	38	-	-	60	45.7	480	3	38.00	3#4+#10EGC IN 1"C	DS-DWH-1	BY MECHANICAL	1,2	MPH	3
EF-1	-	1/4	7.25	15	5.8	120	1	0.70	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	1
EF-2	-	1/4	7.25	15	5.8	120	1	0.70	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	29
EHC-1	45	-	-	-	54.1	480	3	45.00	3#4+#8EGC IN 1"C	INTEGRAL	BY MECHANICAL	1,2	MPH	2
FCU-1.1	-	-	2.8	15	2.3	208	1	0.47	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	54,56
FCU-1.2	-	-	2.5	15	2.0	208	1	0.42	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	1,3
FCU-1.3	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	43,45
FCU-1.4	-	-	2.8	15	2.3	208	1	0.47	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	47,49
FCU-1.5	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	50,52
FCU-1.6	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	3,5
FCU-1.8	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	42,44
FCU-1.9	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	46,48
FCU-1.10	-	-	1.6	15	1.3	208	1	0.27	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	33,35
FCU-1.11	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	21,23
FCU-1.12	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	2,4
FCU-1.13	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	5,7
FCU-1.14	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	17,19
FCU-1.15	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	26,28
FCU-1.16	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	20,22
FCU-1.17	-	-	1.6	15	1.3	208	1	0.27	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	58,60
FCU-1.18	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	10,12
FCU-1.19	-	-	1.4	15	1.1	208	1	0.23	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	13,15
FCU-1.20	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	14,16
FCU-2.1	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	11,13
FCU-2.2	-	-	2.8	15	2.3	208	1	0.47	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	6,8
FCU-2.3	-	-	1.3	15	1.1	208	1	0.22	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	38,40
FCU-2.4	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	34,36
FCU-2.5	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	25,27
FCU-2.6	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	28,30
FCU-2.7	-	-	1.4	15	1.1	208	1	0.23	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	46,48
FCU-2.8	-	-	2.8	15	2.3	208	1	0.47	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	50,52
FCU-2.9	-	-	2.5	15	2.0	208	1	0.42	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	42,44
FCU-2.10	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	39,41
FCU-2.11	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	15,17
FCU-2.12	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	14,16
FCU-2.13	-	-	0.8	15	0.6	208	1	0.13	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	43,45
FCU-2.14	-	-	1.8	15	1.4	208	1	0.30	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	47,49
FCU-2.15	-	-	2.5	15	2.0	208	1	0.42	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	51,53
FCU-2.16	-	-	2.5	15	2.0	208	1	0.42	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL2	19,21
GRD-1	-	-	-	20	16.0	120	1	1.92	2#12+#12EGC IN 3/4"C	5-20R GFI	BY MECHANICAL	1,2	MPL2	18
HRU-1A	-	-	18.2	25	14.6	480	3	12.10	3#10+#10EGC IN 3/4"C	DS-HRU-1A	BY MECHANICAL	1,2	MPH	4
HRU-1B	-	-	23.3	30	18.6	480	3	15.50	3#10+#10EGC IN 3/4"C	DS-HRU-1B	BY MECHANICAL	1,2	MPH	5
HRU-2A	-	-	23.3	30	18.6	480	3	15.50	3#10+#10EGC IN 3/4"C	DS-HRU-2A	BY MECHANICAL	1,2	MPH	6
HRU-2B	-	-	23.3	30	18.6	480	3	15.50	3#10+#10EGC IN 3/4"C	DS-HRU-2B	BY MECHANICAL	1,2	MPH	7
PUMP-1	-	1/8	-	-	0.8	120	1	0.09	2#12+#12EGC IN 3/4"C	MOTOR RATED SWITCH	BY MECHANICAL	1,2	MPL	24
UH-1	3.3	1/125	-	-	15.9	208	1	3.30	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL2	20,22
UH-2	5	1/125	-	-	24.0	208	1	5.00	2#10+#10EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL	2,4
UH-3	3	1/125	-	-	14.4	208	1	3.00	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL2	66,68
UH-4	3	1/125	-	-	14.4	208	1	3.00	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL	65,67
UH-5	3.3	1/125	-	-	15.9	208	1	3.30	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL2	59,61
UH-6	3.3	1/125	-	-	15.9	208	1	3.30	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL2	63,65
UH-7	3.3	1/125	-	-	15.9	208	1	3.30	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL	58,60
UH-8	3.3	1/125	-	-	15.9	208	1	3.30	2#12+#12EGC IN 3/4"C	INTEGRAL	BY MECHANICAL	1,2	MPL	61,63

NOTES: (APPLICABLE TO MECHANICAL EQUIPMENT ELECTRICAL CONNECTION SCHEDULE ONLY)

1. REVIEW EQUIPMENT SUBMITTALS FROM OTHER TRADES PRIOR TO ORDERING OR INSTALLING ASSOCIATED ELECTRICAL WORK. ELECTRICAL CONTRACTOR SHALL MODIFY COMPONENTS OF THE ELECTRICAL CONNECTIONS AS NECESSARY TO MATCH NAMEPLATE DATA OF APPROVED EQUIPMENT AND PROVIDE A CODE COMPLIANT INSTALLATION, INCLUDING BUT NOT LIMITED TO CIRCUIT BREAKERS, WIRE, CONDUITS, CONNECTION TYPES, SWITCHES, AND FUSES. CHANGE ORDERS AND EXTRAS WILL NOT BE AWARDED FOR FAILURE TO COORDINATE WITH OTHER TRADES' EQUIPMENT SUBMITTALS.
2. PROVIDE NECESSARY SUPPORTING STRUT CHANNEL AND ALL MISCELLANEOUS HARDWARE FOR MOUNTING ELECTRICAL EQUIPMENT. MAINTAIN NEC WORKING CLEARANCES. FIELD COORDINATE EXACT LOCATIONS. DO NOT MOUNT ON EQUIPMENT ACCESS PANELS OR IN EQUIPMENT MANUFACTURERS' RECOMMENDED MAINTENANCE CLEARANCES. COORDINATE EXACT LOCATION OF SAFETY SWITCHES WITH MECHANICAL EQUIPMENT/CONTRACTOR.
3. PROVIDE INTERCONNECTION WIRING BETWEEN INDOOR UNIT AND OUTDOOR UNIT AS PER SYSTEM MANUFACTURER'S PUBLISHED INSTALLATION REQUIREMENTS AND RECOMMENDATIONS. WIRING MUST BE SUITABLE FOR INSTALLED LOCATION AND PATHWAY BETWEEN UNITS.

DISCONNECT SWITCH SCHEDULE

DESIGNATION	AMP RATING	POLES	VOLT RATING	FUSE AMPS	FUSE CLASS	NEMA ENCLOSURE	NOTES
DS-ACCU-1	30	2	240	25	RK1	4X	1,2,3,4
DS-ACCU-2	30	2	240	25	RK1	4X	1,2,3,4
DS-ACCU-3	30	2	240	25	RK1	4X	1,2,3,4
DS-ACCU-4	30	2	240	25	RK1	4X	1,2,3,4
DS-CTP	100	3	240	100	RK1	3R	1,2,3,4
DS-CU-1	100	3	600	80	RK1	4X	1,2,3,4
DS-DWH-1	60	3	600	60	RK1	3R	1,2,3,4
DS-HRU-1A	30	3	600	25	RK1	4X	1,2,3,4
DS-HRU-1B	30	3	600	30	RK1	4X	1,2,3,4
DS-HRU-2A	30	3	600	30	RK1	4X	1,2,3,4
DS-HRU-2B	30	3	600	30	RK1	4X	1,2,3,4
DS-IT	100	3	240	100	RK1	3R	1,2,3,4
DS-MDP	800	3	600	800	RK1	3R	1,2,3,4

NOTES: (APPLICABLE TO DISCONNECT SWITCH SCHEDULE ONLY)

1. PROVIDE FUSE AND COORDINATE EXACT EQUIPMENT FUSE SIZE WITH MOTOR OR EQUIPMENT NAMEPLATE DATA DURING CONSTRUCTION.
2. ALL DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE WITH GROUND LUG.
3. PROVIDE ALL FUSIBLE DISCONNECT SWITCHES WITH CLASS R FUSE KIT.
4. LABEL DISCONNECT SWITCHES WITH THE DESIGNATION IDENTIFIED IN THIS SCHEDULE AND THE CIRCUIT NUMBER AND PANELBOARD FROM WHICH IT IS FED, INCLUDING VOLTAGE AND PHASE.

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2025

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

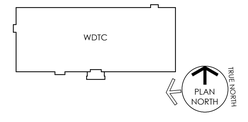
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

ELECTRICAL EQUIPMENT SCHEDULES

SHEET NUMBER:

E802

SHEET 134 OF 172

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DISTRIBUTION PANEL MDP

SERVICE TYPE: NORMAL
FED FROM: UTILITY TRANSFORMER

BUS AMPACITY: 800 A
MAIN TYPE: 800 A MCB
SERVICE: 480Y/277 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 42K AIC SYMMETRICAL AMPS
SERVICE ENTRANCE: No

MOUNTING: SURFACE
SECTIONS: REFER TO DRAWINGS
ENCLOSURE: NEMA 1
LOCATION: ELEC. 117A

CKT	LOAD DESCRIPTION	AUX/NOTE	# OF POLES	FRAME	TRIP	LOAD
1	PANEL MPH		3	400 A	400 A	229.36 kVA
2	XFMR T-KL	e	3	100 A	60 A	25.04 kVA
3	XFMR T-RP1	e	3	225 A	150 A	79.59 kVA
4	PANEL LP1		3	100 A	100 A	14.93 kVA
5	XFMR T-CTP	e	3	100 A	60 A	27.41 kVA
6	XFMR T-MPL2	e	3	100 A	90 A	32.60 kVA
7	XFMR T-IT	e	3	100 A	60 A	25.52 kVA
8	EQUIPPED SPACE - 225A		3	--	--	--
9	EQUIPPED SPACE - 100A		3	--	--	--
10	EQUIPPED SPACE - 100A		3	--	--	--
11	SPARE - FOR FUTURE SOLAR	ETU	3	200 A	160 A	0.00 kVA
12	SPD		3	100 A	30 A	0.00 kVA

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	14.93 kVA	100%	14.93 kVA
CONNECTED LOAD:	434.45 kVA	RECEPTACLE	115.07 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	62.54 kVA
DEMAND LOAD:	381.91 kVA	EQUIPMENT: CONTINUOUS	10.00 kVA	100%	10.00 kVA
DEMAND AMPS:	459 A	EQUIPMENT: NON-CONTINUOUS	12.00 kVA	100%	12.00 kVA
		MOTOR	23.95 kVA	100%	23.95 kVA
		HEATING	110.50 kVA	100%	110.50 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	91.39 kVA	100%	91.39 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		STANDBY	0.00 kVA	0%	0.00 kVA

AUXILIARIES:
a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

[X] GROUND BUS
[ ] SERVICE ENTRANCE LABEL
[ ] INTEGRAL SPD/TVSS
[ ] 200% NEUTRAL BUS & LUGS
[ ] ISOLATED GROUND BUS
[ ] FEED THROUGH LUGS

DISTRIBUTION PANEL MPH

SERVICE TYPE: NORMAL
FED FROM: MDP

BUS AMPACITY: 400 A
MAIN TYPE: 400 A MCB
SERVICE: 480Y/277 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 42K AIC SYMMETRICAL AMPS
SERVICE ENTRANCE: No

MOUNTING: SURFACE
SECTIONS:
ENCLOSURE: NEMA 1
LOCATION: ELEC. 117A

CKT	LOAD DESCRIPTION	AUX/NOTE	# OF POLES	FRAME	TRIP	Load
1	CU-1		3	100 A	70 A	42.90 kVA
2	EHC-1		3	100 A	70 A	45.00 kVA
3	DWH-1		3	100 A	60 A	38.00 kVA
4	HRU-1A		3	100 A	25 A	12.10 kVA
5	HRU-1B		3	100 A	30 A	15.50 kVA
6	HRU-2A		3	100 A	30 A	15.50 kVA
7	HRU-2B		3	100 A	30 A	15.50 kVA
8	DOAS-1-RF		3	100 A	15 A	5.99 kVA
9	DOAS-1-SF		3	100 A	20 A	7.72 kVA
10	XFMR T-MPL		3	100 A	90 A	31.15 kVA
11	EQUIPPED SPACE - 100A		3	--	--	--
12	EQUIPPED SPACE - 100A		3	--	--	--
13	EQUIPPED SPACE - 100A		3	--	--	--
14	EQUIPPED SPACE - 100A		3	--	--	--
15	EQUIPPED SPACE - 100A		3	--	--	--
16	SPD		3	100 A	30 A	0.00 kVA

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	229.36 kVA	RECEPTACLE	0.00 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	0.00 kVA
DEMAND LOAD:	229.36 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	276 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	10.61 kVA	100%	10.61 kVA
		HEATING	97.60 kVA	100%	97.60 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	64.54 kVA	100%	64.54 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:
a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

[X] GROUND BUS
[ ] SERVICE ENTRANCE LABEL
[ ] INTEGRAL SPD/TVSS
[ ] 200% NEUTRAL BUS & LUGS
[ ] ISOLATED GROUND BUS
[ ] FEED THROUGH LUGS

PANEL MPL

SERVICE TYPE: NORMAL
FED FROM: XFMR T-MPL

BUS AMPACITY: 225 A
MAIN TYPE: 150 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC. 117A

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	EF-1	1	15		0.70	2.50						30	2	UH-2	2
3	FCU-1.6	2	15				0.15	2.50							4
5									0.15	0.36		15	1	CP-1/FCU-1.5,1.6	6
7	DOAS COMBINATION COIL	1	20		0.00	1.13						20	1	ENERGY RECOVERY WHEEL...	8
9	BAS	1	20				0.00	0.07				15	2	FCU-1.18	10
11	CP-1/FCU-1.18,1.19,1.20	1	15						0.54	0.07					12
13	FCU-1.19	2	15		0.12	0.07						15	2	FCU-1.20	14
15							0.12	0.07							16
17	FCU-1.14	2	15						0.07	0.90		15	1	CP-1/FCU-1.11,1.14,1.15,1.16	18
19					0.07	0.07						15	2	FCU-1.16	20
21	FCU-1.11	2	15				0.07	0.07							22
23									0.07	0.09		15	1	PUMP-1	24
25	BAS	1	15		0.10	0.07						15	2	FCU-1.15	26
27	BAS	1	15				0.10	0.07							28
29	BS-1.4	2	15						0.16	0.10		15	2	BS-1.3	30
31					0.16	0.10									32
33	FCU-1.10	2	15				0.14	0.10							34
35									0.14	0.10		15	2	BS-1.2	36
37	BAS	1	15		0.10	0.10						15	2	BS-1.1	38
39	FIRE/SMOKE DAMPER	1	20				0.00	0.10							40
41	CP-1/FCU-1.1,1.3,1.4,1.8	1	15						0.90	0.07		15	2	FCU-1.8	42
43	FCU-1.3	2	15		0.15	0.07									44
45							0.15	0.07				15	2	FCU-1.9	46
47	FCU-1.4	2	15						0.24	0.07					48
49					0.24	0.15						15	2	FCU-1.5	50
51	ACCU-1	2	25				1.78	0.15							52
53									1.78	0.24		15	2	FCU-1.1	54
55	ACCU-4	2	25		1.78	0.24									56
57							1.78	1.65				20	2	UH-7	58
59	MV-1	1	20						0.25	1.65					60
61	UH-8	2	20		1.65	0.00						20	1	SPARE	62
63							1.65	0.00				20	1	SPARE	64
65	UH-4	2	20						1.50	0.00		20	1	SPARE	66
67					1.50	0.00						20	1	SPARE	68
69	SPARE	1	20				0.00	--				--	1	SPACE	70
71	SPARE	1	20						0.00	--		--	1	SPACE	72
73	SPARE	1	20		0.00	--						--	1	SPACE	74
75	SPARE	1	20				0.00	--				--	1	SPACE	76
77	SPACE	1	--						--	--		--	1	SPACE	78
79	SPACE	1	--		--	0.00									80
81	SPACE	1	--				--	0.00				30	3	SPD	82
83	SPACE	1	--						--	0.00					84
				PHASE LOAD:	11.02 kVA		10.74 kVA		9.40 kVA						
				PHASE AMPS:	92 A		89 A		78 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	31.15 kVA	RECEPTACLE	0.00 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	0.00 kVA
DEMAND LOAD:	31.15 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	86 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	10.61 kVA	100%	10.61 kVA
		HEATING	14.60 kVA	100%	14.60 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	5.94 kVA	100%	5.94 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:
a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

[X] GROUND BUS
[ ] SERVICE ENTRANCE LABEL
[ ] INTEGRAL SPD/TVSS
[ ] 200% NEUTRAL BUS & LUGS
[ ] ISOLATED GROUND BUS
[X] FEED THROUGH LUGS

PANEL MPL2

SERVICE TYPE: NORMAL
FED FROM: T-MPL2

BUS AMPACITY: 225 A
MAIN TYPE: 150 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: FLUSH
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC. 172A

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	FCU-1.2	2	15		0.21	0.07						15	2	FCU-1.12	2
3							0.21	0.07							4
5	FCU-1.13	2	15						0.07	0.24		15	2	FCU-2.2	6
7					0.07	0.24									8
9	CP-1/FCU-2.2,1.17,1.12,1.2	1	15				0.90	0.10				15	2	BS-2.1	10
11	FCU-2.1	2	15						0.07	0.10					12
13					0.07	0.07						15	2	FCU-2.12	14
15	FCU-2.11	2	15				0.07	0.07							16
17									0.07	1.92		20	1	GRD-1	18
19	FCU-2.16	2	15		0.21	1.65						20	2	UH-1	20
21							0.21	1.65							22
23	CP-1/FCU-2.3,2.4,2.5,2.6	1	15						0.72	0.54		15	1	CP-1/FCU-2.14,2.15,2.16	24
25	FCU-2.5	2	20		0.15	0.00						15	1	BAS	26
27							0.15	0.15				15	2	FCU-2.6	28
29	EF-2	1	15						0.70	0.15					30
31	BS-2.2	2	15		0.16	0.10						15	1	BAS	32
33							0.16	0.15				15	2	FCU-2.4	34
35	CP-1/FCU-2.1,2.11,2.12	1	15						0.54	0.15					36
37	CP-1/FCU-2.7,2.8,2.9,2.13	1	15		0.90	0.11						15	2	FCU-2.3	38
39	FCU-2.10	2	15				0.07	0.11							40
41									0.07	0.21		15	2	FCU-2.9	42
43	FCU-2.13	2	15		0.07	0.21									44
45							0.07	0.12				15	2	FCU-2.7	46
47	FCU-2.14	2	15						0.15	0.12					48
49					0.15	0.24						15	2	FCU-2.8	50
51	FCU-2.15	2	15				0.21	0.24							52
53									0.21	0.16		15	2	BS-2.3	54
55	ACCU-2	2	25		1.78	0.16									56
57							1.78	0.14				15	2	FCU-1.17	58
59	UH-5	2	20						1.65	0.14					60
61					1.65	1.78						25	2	ACCU-3	62
63	UH-6	2	20				1.65	1.78							64
65									1.65	1.50		20	2	UH-3	66
67	SPACE	1	--		--	1.50									68
69	SPACE	1	--				--	--				--	1	SPACE	70
71	SPACE	1	--						--	--		--	1	SPACE	72
73	SPACE	1	--		--	--						--	1	SPACE	74
75	SPACE	1	--				--	--				--	1	SPACE	76
77	SPACE	1	--						--	--		--	1	SPACE	78
79	SPACE	1	--		--	0.00									80
81	SPACE	1	--				--	0.00				30	3	SPD	82
83	SPACE	1	--						--	0.00					84
				PHASE LOAD:	11.51 kVA		10.01 kVA		11.09 kVA						
				PHASE AMPS:	96 A		83 A		92 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	32.60 kVA	RECEPTACLE	0.00 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	0.00 kVA
DEMAND LOAD:	32.60 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	90 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	13.34 kVA	100%	13.34 kVA
		HEATING	12.90 kVA	100%	12.90 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	6.36 kVA	100%	6.36 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:
a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

[X] GROUND BUS
[ ] SERVICE ENTRANCE LABEL
[ ] INTEGRAL SPD/TVSS
[ ] 200% NEUTRAL BUS & LUGS
[ ] ISOLATED GROUND BUS
[X] FEED THROUGH LUGS

PANEL CTP

SERVICE TYPE: NORMAL
FED FROM: T-CTP

BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: PREP/UTILITY 113

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: COSMETOLOGY LAB - 114	1	20		0.90	0.54						20	1	REC: COSMETOLOGY LAB - 114	2
3	REC: PREP/UTILITY 113	1	20				0.36	0.72				20	1	REC: FOR DISPLAY 111,114,	4
5	REC: DRYER PREP/UTILITY 113	2	30	b					2.50	0.54		20	1	REC: PREP/UTILITY 113	6
7					2.50	0.18					b	20	1	REC: WASHER PREP/UTILITY 113	8
9	REC: HAIR DRYER - 114	1	20				1.50	0.72				20	1	REC: COSMETOLOGY LAB - 114	10
11	REC: COSMETOLOGY LAB - 114	1	20						3.18	1.88		20	1	REC: HAIR DRYER 114	12
13	HAIR STYLING STATION - 114	1	20		0.72	1.88						20	1	REC: HAIR DRYER - 114	14
15	HAIR STYLING STATION - 114	1	20				0.72	0.72				20	1	HAIR STYLING STATION - 114	16
17	HAIR STYLING STATION - 114	1	20						0.72	0.72		20	1	HAIR STYLING STATION - 114	18
19	HAIR STYLING STATION - 114	1	20		0.72	1.92						20	1	REC:COSMETOLOGY LAB - 114	20
21	REC: PEDICURE STATION - 114	1	20				0.54	0.18				20	1	REC:COSMETOLOGY - 114	22
23	REC: AV EQUIPMENT - 114	1	20						0.18	0.80		20	1	REC: PEDICURE STATION - 114	24
25	REC: AV EQUIPMENT - 114	1	20		0.18	0.80						20	1	REC: PEDICURE STATION - 114	26
27	REC: PEDICURE STATION - 114	1	20				0.80	0.30				20	1	WATER SUB-METER	28
29	SPARE	1	20						0.00	0.00		20	1	SPARE	30
31	SPARE	1	20		0.00	0.00						20	1	SPARE	32
33	SPARE	1	20				0.00	0.00				20	1	SPARE	34
35	SPARE	1	20						0.00	0.00		20	1	SPARE	36
37	SPACE	1	--		--	--						--	1	SPACE	38
39	SPACE	1	--				--	--				--	1	SPACE	40
41	SPACE	1	--						--	--		--	1	SPACE	42
				PHASE LOAD:	10.34 kVA		6.56 kVA		10.52 kVA						
				PHASE AMPS:	86 A		55 A		88 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	27.41 kVA	RECEPTACLE	20.87 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	15.44 kVA
DEMAND LOAD:	21.98 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	61 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
		HEATING	0.00 kVA	100%	0.00 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	6.54 kVA	100%	6.54 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:
a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

[X] GROUND BUS
[ ] SERVICE ENTRANCE LABEL
[ ] INTEGRAL SPD/TVSS
[ ] 200% NEUTRAL BUS & LUGS
[ ] ISOLATED GROUND BUS
[ ] FEED THROUGH LUGS

11/5/2026 2:59:13 PM Autodesk Docs://25909 Allegany College of MD ACM-WTDC Renovation/HA1 25-4.009 - Electrical Central (2025).rvt

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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Joppa, MD | 21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

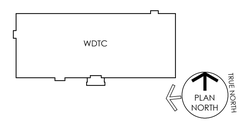
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PANELBOARD SCHEDULES

SHEET NUMBER:

E803

SHEET 135 OF 172

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PANEL RP2

SERVICE TYPE: NORMAL
FED FROM: RP1

BUS AMPACITY: 225 A
MAIN TYPE: 225 A MLO
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: FLUSH
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC. 172A

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: VESTIBULE 163, CORRIDOR 172	1	20		0.90	0.54						20	1	REC: LOBBY - 175	2
3	FLOOR REC: SEMINAR - 156	1	20				0.36	1.08				20	1	REC: SEMINAR - 156	4
5	FLOOR REC: COMM.-BASED - 166	1	20						0.54	0.54		20	1	FLOOR REC: COMM.-BASED - 166	6
7	FLOOR REC: COMM. BASED - 166	1	20		0.36	1.08						20	1	REC: COMM. BASED - 166	8
9	REC: REFRIGERATOR 166	1	20				0.18	0.72				20	1	REC: COMM. BASED - 166	10
11	REC: TOILET 167	1	20						0.46	0.54		20	1	REC: CORRIDORS - 173,174	12
13	FLOOR REC: SEMINAR - 157	1	20		0.36	0.54						20	1	REC: SEMINAR - 157	14
15	REC: WOMEN, MENS ROOM - 158,159	1	20				0.72	0.36				20	1	REC: AV 164	16
17	REC: SPRINK. 104, FLEX CL. RM.169	1	20						0.36	0.36		20	1	REC: AV 165	18
19	REC: 160 LACATION,162 STORAGE	1	20		1.08	0.30						20	1	AUTOMATIC FAUCET - MEN 159	20
21	REC: SEMINAR - 161	1	20				0.90	0.40				20	1	AUTOMATIC FAUCET - WOMEN 158	22
23	REC: LOBBY 102, VEST ADD. 100	1	20						1.26	0.36		20	1	FLOOR REC: SEMINAR - 161	24
25	REC: DRINKING FOUNTIAN 172	1	20	b	0.20	0.72						20	1	REC: OFFICE - 126	26
27	REC: FAMILY - 107	1	20				0.28	0.54				20	1	REC: HALL - 180	28
29	FLOOR REC: FLEX CLASSROOM 149	1	20						0.54	0.36		20	1	FLOOR REC: FLEX CLASSROOM 149	30
31	REC: FLEX CLASSROOM 149	1	20		0.54	0.54						20	1	FLOOR REC: FLEX CLASSROOM 149	32
33	REC: FLEX CLASSROOM 148	1	20				0.54	0.36				20	1	REC: AV 155	34
35	FLOOR REC: FLEX CLASSROOM 148	1	20						0.72	0.36		20	1	FLOOR REC: FLEX CLASSROOM 148	36
37	REC: FLEX CLASSROOM 148	1	20		0.72	0.72						20	1	FLOOR REC: FLEX CLASSROOM 148	38
39	FLOOR REC: FLEX CLASSROOM 147	1	20				0.72	0.54				20	1	FLOOR REC: FLEX CLASSROOM 147	40
41	REC: FLEX CLASSROOM 147	1	20						0.54	0.72		20	1	FLOOR REC: FLEX CLASSROOM 147	42
43	FLOOR REC: FLEX CLASSROOM 146	1	20		0.36	0.36						20	1	REC: AV 150	44
45	FLOOR REC: FLEX CLASSROOM 146	1	20				0.54	0.54				20	1	FLOOR REC: FLEX CLASSROOM 146	46
47	FLOOR REC: FLEX CLASSROOM 169	1	20						1.44	0.90		20	1	REC: FLEX CLASSROOM 146	48
49	REC: FLEX CLASSROOM 169	1	20		0.72	1.44						20	1	FLOOR REC: FLEX CLASSROOM 169	50
51	FLOOR REC: FLEX CLASSROOM 171	1	20				1.44	1.44				20	1	FLOOR REC: FLEX CLASSROOM 171	52
53	FLOOR REC: FLEX CLASSROOM 171	1	20						0.18	0.72		20	1	REC: FLEX CLASSROOM 171	54
55	FLOOR REC: FLEX CLASSROOM 170	1	20		1.08	0.54						20	1	REC: FOR DISPLAY 170,171	56
57	FLOOR REC: FLEX CLASSROOM 170	1	20				1.08	0.36				20	1	REC: SEMINAR 156, CORR. 172	58
59	REC: FLEX CLASSROOM 170	1	20						0.90	0.36		20	1	REC: FOR DISPLAY 157,161	60
61	REC: FLEX CLASSROOM 146,147	1	20		0.36	0.18						20	1	REC: ROOFTOP NORTH	62
63	REC: ELEC. 172A	1	20				0.18	0.30				20	1	MOTORIZED SHADES 169, 170, 171	64
65	MOTORIZED SHADES 146, 147, 148, 149	1	20						0.50	0.50		20	1	SMART FILM 157	66
67	SMART FILM 156	1	20		0.50	0.50						20	1	MOTORIZED SHADE 161	68
69	PROJECTION SCREEN - 146,147,148,149	1	20				0.80	0.36				20	1	REC: CLERESTORY CONV	70
71	REC: PROJECTOR - 148,149	1	20						1.00	1.00		20	1	REC: PROJECTOR - 146,147	72
73	REC: PROJECTOR - 166, 170	1	20		1.00	1.00						20	1	REC: PROJECTOR - 169, 171	74
75	PROJECTION SCREEN - 166,169,170,171	1	20				0.80	0.00				20	1	AUTODOOR OPENER DOORS 102/100	76
77	SPARE	1	20						0.00	0.00		20	1	AUTODOOR OPENER DOORS 172/163	78
79	SPARE	1	20		0.00	0.00						20	1	SPARE	80
81	SPARE	1	20				0.00	0.00				20	1	SPARE	82
83	SPACE	1	--						--	0.00		20	1	SPARE	84
				PHASE LOAD:	16.64 kVA		15.54 kVA		15.16 kVA						
				PHASE AMPS:	139 A		129 A		126 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	47.34 kVA	RECEPTACLE	42.34 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	26.17 kVA
DEMAND LOAD:	31.17 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	87 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
AUXILIARIES:		HEATING	0.00 kVA	100%	0.00 kVA
a AFCI BREAKER		COOLING	0.00 kVA	0%	0.00 kVA
b GFCI BREAKER (5mA)	[X] GROUND BUS	OTHER	5.00 kVA	100%	5.00 kVA
c GFEP BREAKER (30mA)	[ ] SERVICE ENTRANCE LABEL	KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
d SHUNT TRIP BREAKER	[ ] INTEGRAL SPD/TVSS	ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
e HANDLE PADLOCK	[ ] 200% NEUTRAL BUS & LUGS				
f HANDLE CLAMP	[ ] ISOLATED GROUND BUS				
g RED BREAKER LOCKOUT	[X] FEED THROUGH LUGS				

PANEL KL1

SERVICE TYPE: NORMAL
FED FROM: T-KL

BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC. 144A

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: REFRIGERATOR	1	15	b	0.36	0.72						20	1	REC: KITCHEN CATER 144	2
3	MODULE COOKTOP	2	40	b,e			3.45	0.54				20	1	REC: KITCHEN CATER 144	4
5									3.45	0.99	b,e	15	2	ICE MACHINE	6
7	REC: MICROWAVE	1	15		1.55	0.99									8
9	WARMING CABINET	2	15	b			0.62	3.27							10
11									0.62	3.27	b,e	40	3	WALL DOUBLE OVEN	12
13	DISHWASHER	1	20	b	0.94	3.27									14
15	REC: ABOVE COUNTER	1	20				0.18	0.30			b	20	1	REC: DISPLAY	16
17	REC: ABOVE COUNTER	1	20						0.36	0.18	a	20	1	GARBAGE DISPOSAL	18
19	SPARE	1	20		0.00	0.00						20	1	SPARE	20
21	SPARE	1	20				0.00	0.00				20	1	SPARE	22
23	SPARE	1	20						0.00	0.00		20	1	SPARE	24
25	SPACE	1	--		--	--						--	1	SPACE	26
27	SPACE	1	--				--	--				--	1	SPACE	28
29	SPACE	1	--						--	--		--	1	SPACE	30
				PHASE LOAD:	7.83 kVA		8.35 kVA		8.86 kVA						
				PHASE AMPS:	65 A		70 A		74 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	25.04 kVA	RECEPTACLE	18.14 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	14.07 kVA
DEMAND LOAD:	20.97 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	58 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
AUXILIARIES:		HEATING	0.00 kVA	100%	0.00 kVA
a AFCI BREAKER		COOLING	0.00 kVA	0%	0.00 kVA
b GFCI BREAKER (5mA)	[X] GROUND BUS	OTHER	6.90 kVA	100%	6.90 kVA
c GFEP BREAKER (30mA)	[ ] SERVICE ENTRANCE LABEL	KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
d SHUNT TRIP BREAKER	[ ] INTEGRAL SPD/TVSS	ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
e HANDLE PADLOCK	[ ] 200% NEUTRAL BUS & LUGS				
f HANDLE CLAMP	[ ] ISOLATED GROUND BUS				
g RED BREAKER LOCKOUT	[ ] FEED THROUGH LUGS				

PANEL RP1

SERVICE TYPE: NORMAL
FED FROM: T-RP1

BUS AMPACITY: 225 A
MAIN TYPE: 225 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC 122

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: OFFICE 137	1	20		0.72	0.72						20	1	REC: OFFICE 136	2
3	REC: OFFICE 135	1	20				0.72	0.72				20	1	REC: OFFICE 134	4
5	REC: VEST. 119, HALL 176,...	1	20						1.08	0.72		20	1	REC: OFFICE 133	6
7	REC: MICROWAVE - HALL 179	1	20		1.20	0.18						20	1	REC: REFRIGERATOR, 179	8
9	REC: COPIER, HALL 179	1	20				1.00	0.72				20	1	REC: OFFICE 128	10
11	REC: WK. AREA 143, HALL 179 AND 181	1	20						0.90	0.72		20	1	REC: ADMIN 142	12
13	REC: OFFICE 129	1	20		0.72	0.72						20	1	REC: OFFICE 125	14
15	REC: OFFICE 130	1	20				0.72	0.72				20	1	REC: OFFICE 123	16
17	REC: OFFICE 124	1	20						0.72	0.36		20	1	FLOOR REC: PHARM TECH LAB - 108	18
19	REC: PHARM TECH LAB - 108	1	20		0.54	0.36						20	1	FLOOR REC: PHARM TECH LAB - 108	20
21	REC: PHARM TECH LAB - 108	1	20				0.90	0.72				20	1	REC: OFFICE 131	22
23	REC: OFFICE 132	1	20						0.72	0.54		20	1	FLOOR REC: CLASSROOM - 120	24
25	FLOOR REC: CLASSROOM - 120	1	20		0.54	0.54						20	1	FLOOR REC: CLASSROOM - 120	26
27	REC: CLASSROOM - 120	1	20				0.54	0.54				20	1	REC: CLASSROOM - 120	28
29	REC: CLASSROOM - 120	1	20						0.54	0.54		20	1	REC: STORAGE - 109,110	30
31	REC: NURSING LAB - 111	1	20		0.72	0.36						20	1	FLOOR REC: NURSING LAB - 111	32
33	REC: NURSING LAB - 111	1	20				0.36	0.36				20	1	FLOOR REC: NURSING LAB - 111	34
35	REC: MECHANICAL - 117	1	20						0.90	0.90		20	1	REC: NURSING LAB - 111	36
37	REC: DRINKING FOUNTAIN 177	1	20	b	0.18	0.18						20	1	REC: ELEC 117A	38
39	REC: REFRIGERATOR 111	1	20	b			0.80	0.36				20	1	REC: CLERESTORY CONV	40
41	REC: ROOFTOP SOUTH	1	20						0.18	1.20		20	1	REC: EX LAMINAR FLOW CABINET	42
43	REC: OFFICE - 138, OFFICE - 139	1	20		0.72	0.72						20	1	REC: OFFICE - 138, OFFICE - 139	44
45	REC: WK. STATION 140, WK STATION...	1	20				0.72	0.72				20	1	REC: OFFICE - 127	46
47	REC: RECEPT. - 103, WK. STATION -...	1	20						0.54	0.54		20	1	REC: RECEPT. - 103, WK. STATION -...	48
49	FIRE ALARM CONTROL PANEL	1	20	g	0.25	0.20						20	1	PROJECTION SCREEN - 120	50
51	REC: PROJECTOR - 120	1	20				0.18	0.28				20	1	REC:TOILET 112	52
53	AUTODOOR OPENER DOORS 119/119A	1	20						0.50	0.00		20	1	SPARE	54
55	SPARE	1	20		0.00	0.00						20	1	SPARE	56
57	SPARE	1	20				0.00	0.00				20	1	SPARE	58
59	SPARE	1	20						0.00	--		--	1	SPACE	60
				PHASE LOAD:	26.21 kVA		26.62 kVA		26.76 kVA						
				PHASE AMPS:	218 A		222 A		223 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	79.59 kVA	RECEPTACLE	73.54 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	41.77 kVA
DEMAND LOAD:	47.82 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	133 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
AUXILIARIES:		HEATING	0.00 kVA	100%	0.00 kVA
a AFCI BREAKER		COOLING	0.00 kVA	0%	0.00 kVA
b GFCI BREAKER (5mA)	[X] GROUND BUS	OTHER	6.05 kVA	100%	6.05 kVA
c GFEP BREAKER (30mA)	[ ] SERVICE ENTRANCE LABEL	KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
d SHUNT TRIP BREAKER	[ ] INTEGRAL SPD/TVSS	ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
e HANDLE PADLOCK	[ ] 200% NEUTRAL BUS & LUGS				
f HANDLE CLAMP	[ ] ISOLATED GROUND BUS				
g RED BREAKER LOCKOUT	[ ] FEED THROUGH LUGS				

PROJECT TEAM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

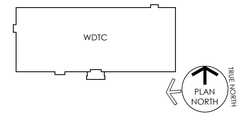
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PANELBOARD SCHEDULES

SHEET NUMBER:

E804

SHEET 136 OF 172

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PANEL LP1

SERVICE TYPE: NORMAL
FED FROM: MDP

BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
SERVICE: 480Y/277 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 22K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: ELEC 122

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	LTG. - 132,133,134,135,136,137	1	20		0.62	1.10						20	1	LTG. - 119,176,177,178,179	2
3	LTG. - 120,123,124,125	1	20				0.62	1.39				20	1	LTG. - 108,109,110,111,112,113	4
5	LTG. - 114,117,117A	1	20						1.32	0.12		20	1	LIGHTING - EXTERIOR	6
7	LTG. - 128,129,130,131,142,143	1	20		0.62	1.25						20	1	LTG. -146,147,148,149	8
9	LTG. -138,139,140,141,144,144A,145	1	20				0.68	3.12				20	1	LTG. - 156,157,164,165,166,168,170,171	10
11	LTG. - 158,159,160,161,162,172,173,174	1	20						1.13	1.70		20	1	LTG. - 100,102,103,103A,104,106,107,175	12
13	LIGHTING - EXTERIOR	1	20		0.16	0.14						20	1	LTG. - 150,151,152,153,154,155,172A	14
15	LTG. - 103,103A,126,127,180	1	20				0.51	0.43				20	1	LTG: CLERESTORY	16
17	SPARE	1	20						0.00	0.00		20	1	SPARE	18
19	SPARE	1	20		0.00	0.00						20	1	SPARE	20
21	SPARE	1	20				0.00	0.00				20	1	SPARE	22
23	SPARE	1	20						0.00	0.00		20	1	SPARE	24
25	SPACE	1	--		--	--						--	1	SPACE	26
27	SPACE	1	--				--	--				--	1	SPACE	28
29	SPACE	1	--						--	--		--	1	SPACE	30
	PHASE LOAD:				3.90 kVA		6.76 kVA		4.26 kVA						
	PHASE AMPS:				14 A		24 A		15 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	14.93 kVA	100%	14.93 kVA
CONNECTED LOAD:	14.93 kVA	RECEPTACLE	0.00 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	0.00 kVA
DEMAND LOAD:	14.93 kVA	EQUIPMENT: CONTINUOUS	0.00 kVA	100%	0.00 kVA
DEMAND AMPS:	18 A	EQUIPMENT: NON-CONTINUOUS	0.00 kVA	100%	0.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
		HEATING	0.00 kVA	100%	0.00 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	0.00 kVA	100%	0.00 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:

a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

- [X] GROUND BUS
- [ ] SERVICE ENTRANCE LABEL
- [ ] INTEGRAL SPD/TVSS
- [ ] 200% NEUTRAL BUS & LUGS
- [ ] ISOLATED GROUND BUS
- [ ] FEED THROUGH LUGS

PANEL IT

SERVICE TYPE: NORMAL
FED FROM: T-IT

BUS AMPACITY: 100 A
MAIN TYPE: 100 A MCB
SERVICE: 208Y/120 VOLTS, 3 PHASE, 4 WIRE
MIN. RATING: 10K AIC RMS SYMMETRICAL AMPS

MOUNTING: SURFACE
SECTIONS: 1
ENCLOSURE: NEMA 1
LOCATION: A.V. / I.T. 106

CKT	LOAD DESCRIPTION	P	TA	AUX/NOTE	A		B		C		AUX/NOTE	TA	P	LOAD DESCRIPTION	CKT
1	REC: AV RACK	2	30		2.50	0.50						20	1	ACCESS PANEL	2
3							2.50	2.50				30	2	REC: IT RACK	4
5	ACCESS PANEL	1	20						0.50	2.50					6
7	REC: DAS EQUIPMENT	1	20		0.36	3.00						35	1	REC: UPS	8
9	REC: UPS	1	35				3.00	1.08				20	1	REC: IT 106	10
11	REC: UPS	1	35						3.00	3.00		35	1	REC: UPS	12
13	REC: IT 106	1	20		0.72	0.36						20	1	REC: IT 106	14
15	SPARE	1	20				0.00	0.00				20	1	SPARE	16
17	SPARE	1	20						0.00	0.00		20	1	SPARE	18
19	SPARE	1	20		0.00	0.00						20	1	SPARE	20
21	SPARE	1	20				0.00	0.00				20	1	SPARE	22
23	SPARE	1	20						0.00	0.00		20	1	SPARE	24
25	SPACE	1	--		--	--						--	1	SPACE	26
27	SPACE	1	--				--	--				--	1	SPACE	28
29	SPACE	1	--						--	--		--	1	SPACE	30
	PHASE LOAD:				7.44 kVA		9.08 kVA		9.00 kVA						
	PHASE AMPS:				62 A		76 A		75 A						

PANEL TOTALS		LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	DEMAND LOAD
		LIGHTING	0.00 kVA	100%	0.00 kVA
CONNECTED LOAD:	25.52 kVA	RECEPTACLE	2.52 kVA	1ST 10KVA AT 100%, REMAINDER AT 50%	2.52 kVA
DEMAND LOAD:	25.52 kVA	EQUIPMENT: CONTINUOUS	10.00 kVA	100%	10.00 kVA
DEMAND AMPS:	71 A	EQUIPMENT: NON-CONTINUOUS	12.00 kVA	100%	12.00 kVA
		MOTOR	0.00 kVA	100%	0.00 kVA
		HEATING	0.00 kVA	100%	0.00 kVA
		COOLING	0.00 kVA	0%	0.00 kVA
		OTHER	1.00 kVA	100%	1.00 kVA
		KITCHEN EQUIPMENT	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA
		ELEVATOR	0.00 kVA	BASED ON QUANTITY PER NEC	0.00 kVA

AUXILIARIES:

a AFCI BREAKER
b GFCI BREAKER (5mA)
c GFEP BREAKER (30mA)
d SHUNT TRIP BREAKER
e HANDLE PADLOCK
f HANDLE CLAMP
g RED BREAKER LOCKOUT

- [X] GROUND BUS
- [ ] SERVICE ENTRANCE LABEL
- [ ] INTEGRAL SPD/TVSS
- [ ] 200% NEUTRAL BUS & LUGS
- [ ] ISOLATED GROUND BUS
- [ ] FEED THROUGH LUGS

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature: _____ Date: 09/18/2026
License # 62722, Expiration Date 01/05/2028

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

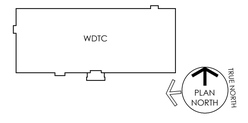
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	SCHEMATIC DESIGN SUBMISSION	02/27/2026
	DESIGN DEVELOPMENT	05/01/2026
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS	11/06/2026

CAD DWG FILE:
DRAWN BY: WC
CHK'D BY: NTS

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

PANELBOARD SCHEDULES

SHEET NUMBER:

E805

SHEET 137 OF 172

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SHEET INDEX

SHEET NUMBER	SHEET NAME
TA001	AUDIOVISUAL NOTES AND ABBREVIATIONS
TA002	AUDIOVISUAL LEGEND
TA101	AUDIOVISUAL PLAN - FIRST FLOOR
TA201	AUDIOVISUAL RCP - FIRST FLOOR
TA401	ENLARGED AUDIOVISUAL PLANS
TA501	AUDIOVISUAL DETAILS
TA502	AUDIOVISUAL DETAILS
TA801	AUDIOVISUAL LOGICAL DIAGRAMS
TA802A	AUDIOVISUAL LOGICAL DIAGRAMS
TA802B	AUDIOVISUAL LOGICAL DIAGRAMS
TA803A	AUDIOVISUAL LOGICAL DIAGRAMS
TA803B	AUDIOVISUAL LOGICAL DIAGRAMS
TA804A	AUDIOVISUAL LOGICAL DIAGRAMS
TA804B	AUDIOVISUAL LOGICAL DIAGRAMS
TA804C	AUDIOVISUAL LOGICAL DIAGRAMS
TA805	AUDIOVISUAL LOGICAL DIAGRAMS
TA806	AUDIOVISUAL LOGICAL DIAGRAMS
TA807	AUDIOVISUAL LOGICAL DIAGRAMS
TA808	AUDIOVISUAL LOGICAL DIAGRAMS
TA809	AUDIOVISUAL LOGICAL DIAGRAMS
TA810	AUDIOVISUAL LOGICAL DIAGRAMS
TA811	AUDIOVISUAL LOGICAL DIAGRAMS
TA812	AUDIOVISUAL LOGICAL DIAGRAMS

AUDIOVISUAL ABBREVIATIONS & NOTATIONS

A

AC	ABOVE CEILING
ACP	ACCESS CONTROL PANEL
ADA	AMERICANS WITH DISABILITIES ACT
AFF	ABOVE FINISHED FLOOR
AIA	AMERICAN INSTITUTE OF ARCHITECTS
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
AP	ACCESS POINT
AVC	AUDIOVISUAL CONTRACTOR
AWG	AMERICAN WIRE GAUGE

B

BAS	BUILDING AUTOMATION SYSTEM
BDA	BI-DIRECTIONAL ANTENNA
BEF	BUILDING ENTRANCE FACILITY
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BMS	BUILDING MANAGEMENT SYSTEM
BTS	BASE TRANSCEIVER STATION
BTU	BRITISH THERMAL UNIT

C

CA	CABLE
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CB	CONDUIT BANK
CCTV	CLOSED CIRCUIT TELEVISION
CFE	CUSTOMER FURNISHED EQUIPMENT
CN	INDIVIDUAL CONDUIT
codec	CODER/DECODER
CPU	CENTRAL PROCESSING UNIT
CT	CABLE TRAY

D

D-A or D/A	DIGITAL TO ANALOG CONVERSION
DAS	DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
DB	DUCT BANK
DC	DIRECT CURRENT
DC	DOOR CONTACT
DEMARC	DEMARCATION POINT
DL	DUCT LINER (INNER DUCT)
DSL	DIGITAL SUBSCRIBER LINE

E

EF	ENTRANCE FACILITY
EMI	ELECTROMAGNETIC INTERFACE
EMT	ELECTRICAL MAGNETIC TUBING
ESS	ELECTRONIC SECURITY & SAFETY

F

FAX	FACSIMILE
FCC	FEDERAL COMMUNICATIONS COMMISSION
FREQ	FREQUENCY

G

GA	GAUGE
GHz	GIGAHERTZ
GND	GROUND

H

HC	HORIZONTAL CROSS-CONNECT
HF	HIGH FREQUENCY
HH	HANDHOLE
HVAC	HEATING, VENTILATION, AND AIR-CONDITIONING
Hz	HERTZ

I

IC	INTERMEDIATE CROSS-CONNECT
IDF	INTERMEDIATE DISTRIBUTION FRAME
IDS	INTRUSION DETECTION SYSTEM
IEEE	INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS
IPS	INFANT PROTECTION SYSTEM
IR	INFRARED
ISC	INTELLIGENT SYSTEM CONTROLLER
ISDN	INTEGRATED SERVICES DIGITAL NETWORK
ISO	INTERNATIONAL STANDARDS ORGANIZATION
ITU	INTERNATIONAL TELECOMMUNICATIONS UNION
ITU-T	INTERNATIONAL TELECOMMUNICATIONS UNION - TELECOMMUNICATIONS

J

JB	JUNCTION BOX

K

kHz	KILOHERTZ
KWH	KILOWATT-HOURS

L

LAN	LOCAL AREA NETWORK
LBF	POUNDS, FORCE
LED	LIGHT-EMITTING DIODE
LOD	LIMIT OF DISTURBANCE

M

MBA	MULTI-BAND ANTENNA
MC	MAIN CROSS-CONNECT
MDF	MAIN DISTRIBUTION FRAME
MH	MANHOLE; MAINTENANCE HOLE
MM	MULTI MODE
modem	MODULATOR/DEMODULATOR
MTR	MAIN TECHNOLOGY ROOM
MUTO	MULTI USER TELECOMMUNICATIONS OUTLET
MUX	MULTIPLEXER

N

NEC	NATIONAL ELECTRICAL CODE
NESC	NATIONAL ELECTRICAL SAFETY CODE
NEXT	NEAR END CROSSTALK
NI	NETWORK INTERFACE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE

O

OEM	ORIGINAL EQUIPMENT MANUFACTURER
OPE	OUTSIDE PLANT ENGINEER
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OSHPD	OFFICE OF STATEWIDE HEALTH PLANNING AND DEVELOPMENT
OSP	OUTSIDE PLANT

P

PABX	PRIVATE AUTOMATIC BRANCH EXCHANGE
PAM	PULSE AMPLITUDE MODULATION
PB	PULL BOX
PBX	PRIVATE BRANCH EXCHANGE
PCM	PULSE CODE MODULATION
POTS	PLAIN OLD TELEPHONE SERVICE (COLLOQUIAL)
PR	PAIR
PTZ	PAN, TILT, ZOOM
PVC	POLYVINYL CHLORIDE

R

RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
REX	REQUEST TO EXIT
RFI	RADIO FREQUENCY INTERFERENCE
RFQ	REQUEST FOR QUOTE
RH	RELATIVE HUMIDITY
RIU	REMOTE INTERFACE UNIT

S

ScTP	SCREENED TWISTED PAIR
SDN	SWITCHED DIGITAL NETWORK
SDSL	SYMMETRICAL DIGITAL SUBSCRIBER LINE
SI	SYSTEM INTERNATIONAL
SIM	SIMILAR
SM	SINGLE-MODE
SM-PMD	SINGLE-MODE PHYSICAL MEDIUM DEPENDENT
SMPS	SWITCHED MODE POWER SUPPLY
SMS	SECURITY MANAGMENT SYSTEM
SNR	SIGNAL-TO-NOISE RATIO
SOC	SECURITY OPERATIONS CENTER
SONET	SYNCHRONOUS OPTICAL NETWORK
SP	SERVICE PROVIDER
SPG	SINGLE-POINT GROUND
STP	SYNCHRONOUS TRANSPORT SIGNAL
SYS	SYSTEM

T

TB	TERMINAL BLOCK
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
T&C	TERMS & CONDITIONS
TDM	TIME-DIVISION MULTIPLEXING
TEL	TELEPHONE
TELCO	TELEPHONE COMPANY
TERM	TERMINAL OR TERMINATING
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
THD	TOTAL HARMONIC DISTORTION
TIA	TELECOMMUNICATIONS INDUSTRY ASSOCIATION
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TP-PMD	TWISTED PAIR PHYSICAL MEDIA DEPENDENT
TR	TECHNOLOGY ROOM

U

UBC	UNIFORM BUILDING CODE
UD	UNDER FLOOR DUCT
UG	UNDERGROUND
UL	UNDERWRITERS LABORATORIES
UON	UNLESS OTHERWISE NOTED
UPS	UNINTERRUPTIBLE POWER SUPPLY

W

WAO	WORK AREA OUTLET
WAP	WIRELESS ACCESS POINT
WDM	WAVELENGTH DIVISION MULTIPLEXING

AUDIOVISUAL GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL MATERIALS REQUIRED FOR A COMPLETE AND FUNCTIONAL INSTALLATION IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS. ALL ITEMS ARE NOT ENUMERATED IN THE DESIGN PACKAGE AND THE CONTRACTOR SHALL PROVIDE ALL MATERIALS AND ACCESSORIES REQUIRED TO MEET THE DESIGN INTENT.
2. VERIFY DEVICE LOCATIONS IN THE FIELD WITH DUE REGARD TO AS-BUILT CONDITIONS BEFORE INSTALLATION. COORDINATE WORK WITH FIELD CONDITIONS AND OTHER TRADES IN ORDER TO MEET DESIGN INTENT. COORDINATE EXACT ROUTING OF CONDUIT AND PATHWAYS BASED ON FIELD CONDITIONS. WHERE GENERAL DESIGN INTENT CANNOT BE ACHIEVED, OBTAIN FORMAL APPROVAL OF ROUTING CHANGES FROM THE DESIGN PROFESSIONAL.
3. REFER TO SYMBOL LEGEND, SCHEDULES, AND DETAILS FOR ALL BOX AND CONDUIT REQUIREMENTS.
4. DEBURR ALL CONDUITS AND PROVIDE BUSHINGS AND PROVIDE 200-LBS. PULLSTRING PRIOR TO INSTALLING CABLE.
5. CONDUIT STUB-OUTS SHALL BE EXTENDED TO THE NEAREST ACCESSIBLE CEILING SPACE WITHIN THE ROOM IN WHICH THE DEVICE RESIDES UNLESS OTHERWISE NOTED. FOR ROOMS WITH HARD CEILINGS, CONDUIT SHALL BE ROUTED TO AN ADJOINING CORRIDOR IN COMMON WITH A ROOM DOOR UNLESS NOTED OTHERWISE. CONDUITS SHALL NOT PASS THROUGH OTHER ROOMS TO REACH A CORRIDOR UNLESS THE ROOM IS COMPLETELY SURROUNDED BY OTHER ROOMS OR SPACES (E.G., ELEVATORS AND INACCESSIBLE CHASES).
6. PROVIDE PULL BOXES AND JUNCTION BOXES IN ACCORDANCE WITH SPECIFIED STANDARDS AND LOCAL CODES. AT A MINIMUM, PROVIDE ONE (1) PULL BOX FOR EVERY 100 FEET OF STRAIGHT CONDUIT RUN, AND ONE (1) PULL BOX AFTER TWO (2) 90-DEGREE BENDS OR 180 DEGREES OF ACCUMULATED BEND. PULLBOXES MUST BE LOCATED ABOVE ACCESSIBLE CEILING OR ABOVE CEILING ACCESS PANELS.
7. REFER TO LIFE SAFETY DRAWINGS FOR FIRE & SMOKE WALL LOCATIONS. CONDUIT PENETRATIONS SHALL BE PROPERLY FIRESTOPPED PER CODE. THE CABLE TRAY SHALL NOT PENETRATE FIRE & SMOKE WALLS. LISTED FIRESTOP ASSEMBLIES SHALL BE USED TO PENETRATE FIRE & SMOKE WALLS FOR CABLE TRAY PATHWAYS. SIZE THE PENETRATIONS FOR FULL CABLE TRAY CAPACITY.
8. CABLES SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE BY APPROVED J-HOOKS OR SLINGS WHEN NOT IN CONDUIT OR COMMON LOW-VOLTAGE CABLE TRAY. CABLES TRANSITIONING TO AND FROM CABLE TRAY, CONDUIT, SLEEVES, J-HOOKS OR OTHER SUPPORT MECHANISMS SHALL BE SUPPORTED WHEN THE TRANSITION SPANS MORE THAN 3 FEET.
9. PROVIDE PLENUM-RATED CABLE WHEN INSTALLED IN PLENUM SPACES.
10. PROVIDE BLANK PLATES FOR ALL UNUSED BACKBOXES.
11. FOR ALL CABLE PATHWAYS THROUGH WALL STRUCTURES, PROVIDE CONDUIT, SLEEVE, FIRESTOP ASSEMBLY, ETC., THROUGH THE WALL STRUCTURE. PATHWAY SIZING SHALL ADHERE TO THE REFERENCED STANDARDS AND FILL RATIO REQUIREMENTS WITHIN APPLICABLE CODE AND STANDARDS.
12. REFER TO SPECIFICATION SUBMITTAL REQUIREMENTS FOR DEVICE, FACEPLATE, AND OUTLET COLOR SAMPLES TO BE APPROVED BY THE OWNER'S REPRESENTATIVE PRIOR TO ORDERING.
13. DISPLAY BACKBOXES DEFINED ON AUDIOVISUAL SCHEDULES SHALL SUPPORT THE ENTIRE WEIGHT OF THE FINISHED DISPLAY ASSEMBLY. BACKBOXES SHALL BE INSTALLED, FRAMED, AND STRUCTURALLY SECURED PER MANUFACTURER RECOMMENDATIONS OR AS REQUIRED BY THE AHJ. ATTACH BACKBOXES TO FRAMING USING FASTENERS APPROPRIATELY SELECTED FOR SHEER STRENGTH AND PULL-OUT STRENGTH TO SUPPORT THE MAXIMUM RATED WEIGHT AND MOMENT OF THE DISPLAY ASSEMBLY WHEN PULLED OUT FOR SERVICE.
14. ALL REFERENCES TO ELECTRICAL REQUIREMENTS ARE FOR REFERENCE ONLY. REFER TO ELECTRICAL DRAWINGS FOR ELECTRICAL REQUIREMENTS. ALL REFERENCES TO COOLING UNITS ARE FOR REFERENCE ONLY. REFER TO MECHANICAL DRAWINGS FOR HVAC EQUIPMENT REQUIREMENTS.
15. LOGICAL DIAGRAM BILLS OF MATERIAL ARE BASED ON UPON EXTRON QUOTE# #14073775. THE QUOTATION IS PROVIDED AS A BASIS OF DESIGN ONLY. THE AV CONTRACTOR SHALL REVIEW ALL CONTRACT DOCUMENTS AND PROVIDE ALL EQUIPMENT, SOFTWARE LICENSES, ACCESSORIES, MOUNTING HARDWARE, INTERCONNECTIONS, CABLING, AND ANCILLARY COMPONENTS REQUIRED FOR A COMPLETE AND FULLY FUNCTIONAL SYSTEM WHETHER OR NOT SPECIFICALLY IDENTIFIED WITHIN THE QUOTATION.

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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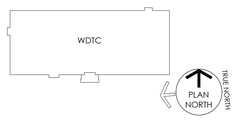
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

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SHEET TITLE:

AUDIOVISUAL NOTES AND ABBREVIATIONS

SHEET NUMBER:

TA001

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AUDIOVISUAL SYMBOLS

xyz

AUDIOVISUAL WALL OUTLET SCHEDULE

DEVICE TYPE	DESCRIPTION (x)	DEVICE BOX (y)	DEVICE SUBTYPE (z)
T2	AV TOUCH PANEL AT 48" A.F.F. UON	(1) 5"x5"x2-7/8" FLUSH MOUNTED BOX FITTED WITH 2-GANG REDUCER RING	
WF	RECESSED WALL BOX AT 18" A.F.F. UON	FSR PWB-253-WHT	
WQ	RECESSED WALL BOX	FSR PWB-323-ESK	REFER TO DISPLAY DETAILS

xyz

AUDIOVISUAL CEILING OUTLET SCHEDULE

DEVICE TYPE	DESCRIPTION (x)	DEVICE BOX (y)	DEVICE SUBTYPE (z)
CJA	CAMERA	FSR CB-12P+	ACCESSIBLE CEILING MOUNT
MXA	MICROPHONE	NO INFRASTRUCTURE, DEVICE ONLY	ACCESSIBLE CEILING MOUNT
O1H	PARTITION SENSOR	(1) 5"x5"x2-7/8" FLUSH MOUNTED BOX FITTED WITH SINGLE GANG REDUCER RING, DEVICE ONLY	INACCESSIBLE HARD CEILING MOUNT
PJA	PROJECTOR	FSR CB-12P+	ACCESSIBLE CEILING MOUNT

xyz

AUDIOVISUAL CEILING SPEAKER SCHEDULE

DEVICE TYPE	DESCRIPTION (x)	DEVICE BOX (y)	DEVICE SUBTYPE (z)
SXA	SPEAKER	NO INFRASTRUCTURE, DEVICE ONLY	ACCESSIBLE CEILING MOUNT

DS-#

AUDIOVISUAL DISPLAY SCHEDULE

DEVICE TYPE	DESCRIPTION	WIDTH	HEIGHT	DEPTH
DS-65	65" DISPLAY	4' - 10 21/32"	2' - 10 3/8"	0' - 4"
DS-75	75" DISPLAY	5' - 6 1/2"	3' - 2 5/32"	0' - 4"
DS-98	98" DISPLAY	7' - 3 13/32"	4' - 2 13/16"	0' - 4"

SC-#

AUDIOVISUAL PROJECTION SCREEN SCHEDULE

DEVICE TYPE	DESCRIPTION
SC-133	133" MOTORIZED PROJECTION SCREEN IN RECESSED CASE WITHIN INACCESSIBLE CEILING WITH LCV-IV

□ PJ-xyz

AUDIOVISUAL PROJECTOR SCHEDULE

DEVICE TYPE	DESCRIPTION
PJ-1	7000 LUMEN PROJECTOR

RK-#

AUDIOVISUAL EQUIPMENT RACK SCHEDULE

DEVICE TYPE	DESCRIPTION
RK-1	MOBILE LECTERN - 25" WITH SINGLE MONITOR ARM
RK-2	44RU EQUIPMENT RACK
RK-3	2-POST 8RU EQUIPMENT RACK IN ARCHITECTURAL CABINETRY

x

AUDIOVISUAL DATA SCHEDULE

DEVICE TYPE	FUNCTION	DEVICE BOX	CABLE
AV1	AV DATA CONNECTION	NO INFRASTRUCTURE, CABLING ONLY FOR DIRECT CONNECTION TO AV EQUIPMENT	(1) MODULAR PLUG TERMINATED LINK (MPTL) USING CAT6A F/UTP
AV2	AV DATA CONNECTION	NO INFRASTRUCTURE, CABLING ONLY FOR DIRECT CONNECTION TO AV EQUIPMENT	(2) MODULAR PLUG TERMINATED LINK (MPTL) USING CAT6A F/UTP
AVF1	AV DATA CONNECTION	1-GANG BOX MOUNTED TO RECESSED WALL BOX WITH 1-GANG DECORA FACEPLATE AND QUICKPORT DECORA INSERT	(1) 2-STRAND OM4 MULTIMODE FIBER CABLE, LC DUPLEX TERMINATED AT BOTH ENDS. PROVIDE LC DUPLEX FIBER ADAPTER IN RECESSED BACKBOX WHERE INDICATED
D1	ENTERPRISE IT CONNECTION	SHOWN FOR REFERENCE ONLY. REFER TO TELECOM DRAWINGS.	
D9	ENTERPRISE IT CONNECTION	SHOWN FOR REFERENCE ONLY. REFER TO TELECOM DRAWINGS.	

DEVICE GROUP (x)

A	ANTENNA
B	BUTTON PANEL
C	CAMERA
D	DISPLAY
F	FLOORBOX
M	MICROPHONE
O	OCCUPANCY SENSOR
P	PROJECTOR
R	ROOM SCHEDULING TOUCH PANEL
S	SPEAKER
T	TOUCH PANEL
W	WALL PLATE

BOX TYPE (y)

1	1-GANG BACK BOX
2	2-GANG BACK BOX
C	CHIEF
F	FSR PWB-253-WHT
J	FSR CB-12P+
Q	FSR PWB-323-ESK
R	RP VISUAL
X	NO INFRASTRUCTURE; DEVICE ONLY

DEVICE SUBTYPE (z)

SUBTYPE	DESCRIPTION
A	ACCESSIBLE CEILING MOUNT
H	INACCESSIBLE (HARD) CEILING MOUNT
O	OPEN CEILING MOUNT

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

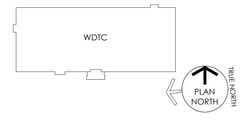
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AUDIOVISUAL LEGEND

SHEET NUMBER:

TA002

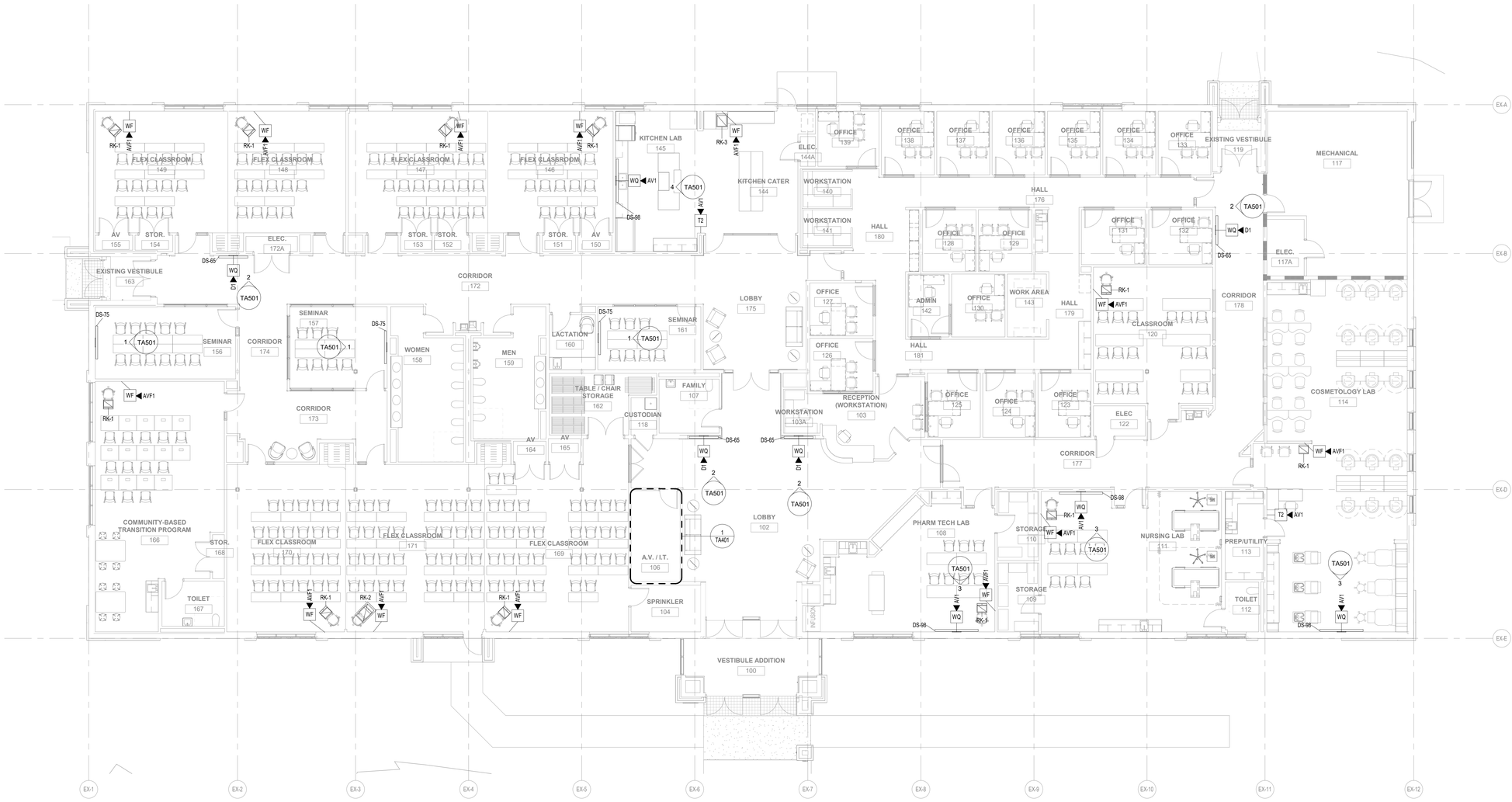
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GENERAL SHEET NOTES:

1. PROVIDE (1) 1-1/4" CONDUITS STUBBED ABOVE ACCESSIBLE CEILING WITHIN ROOM IN WHICH BOX RESIDES FOR ALL TYPE 'WF' AND 'TZ' WALL BOXES, UNLESS OTHERWISE NOTED.



1 / TA101 AUDIOVISUAL PLAN - FIRST FLOOR
1/8" = 1'-0"

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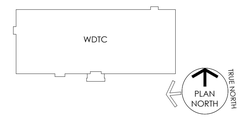
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AUDIOVISUAL PLAN - FIRST FLOOR

SHEET NUMBER:

TA101

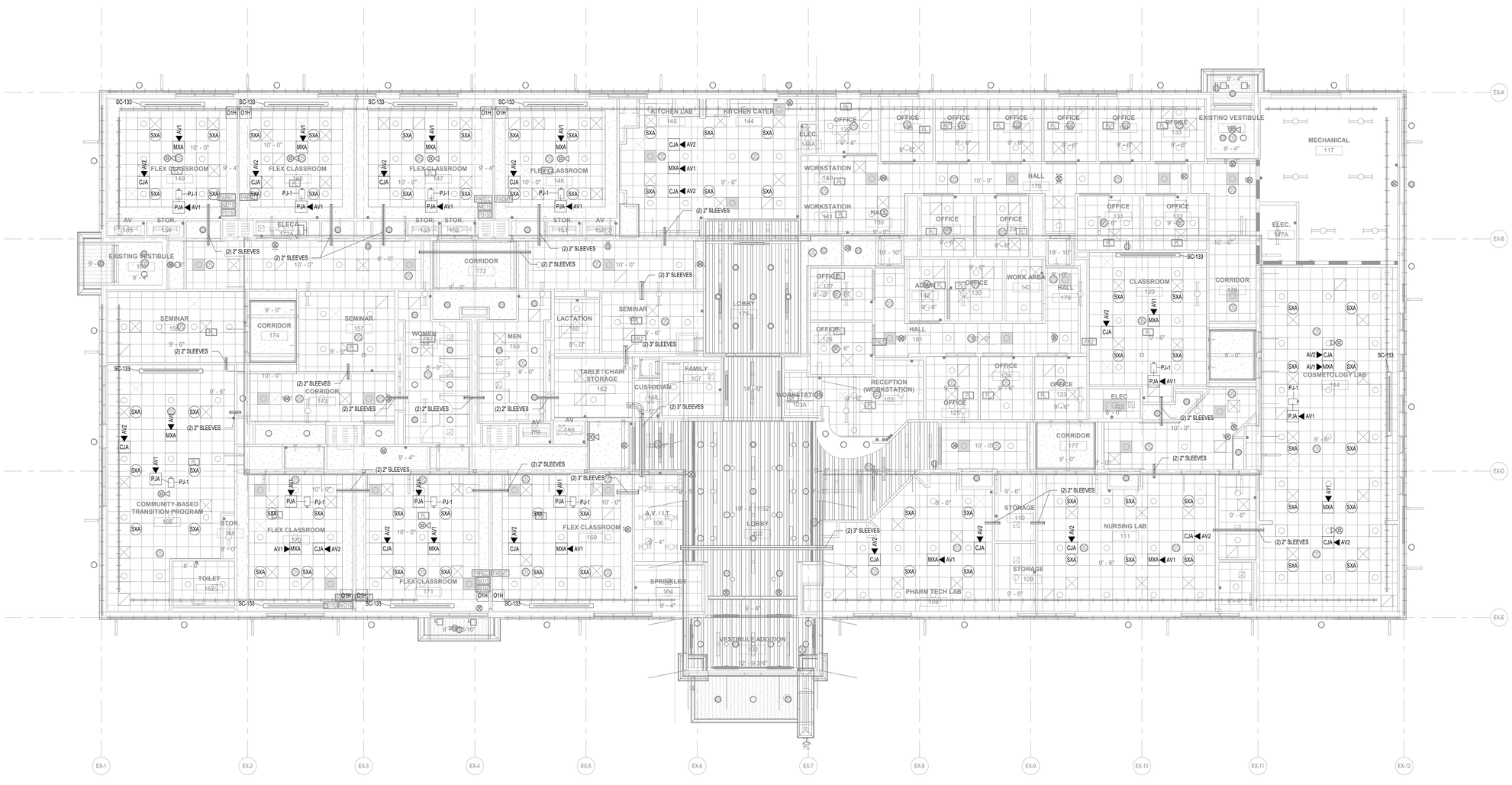
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SHEET NOTE:

1. COORDINATE CONCEALED PATHWAY ABOVE HARD CEILING FOR PARTITION SENSOR (OTH) TX/RX INTERCONNECT.



1 TA201 AUDIOVISUAL RCP - FIRST FLOOR
1/8" = 1'-0"

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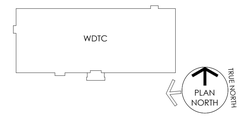
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Maryland DEPARTMENT OF GENERAL SERVICES

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AUDIOVISUAL RCP - FIRST FLOOR

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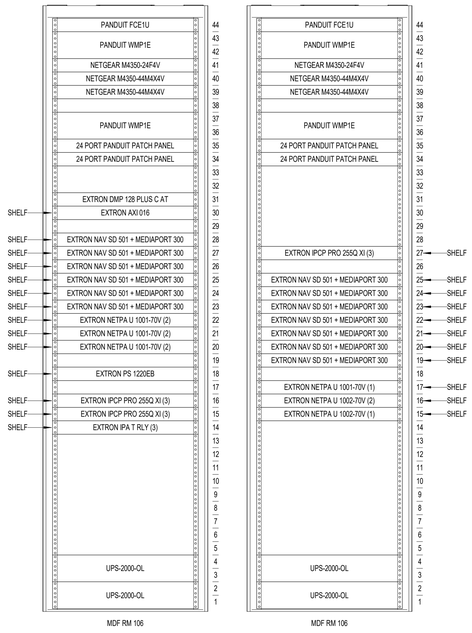
SHEET NOTES:

1. PROVIDE FIRE ALARM DRY CONTACT RELAY INTERFACE TO DSP LOGIC INPUT. UPON FIRE ALARM ACTIVATION, DSP SHALL MUTE ALL PROGRAM AUDIO OUTPUTS. FIRE ALARM RELAY AND ASSOCIATED INTERFACE BY DIVISION 28

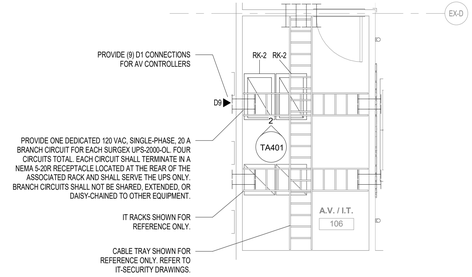
2. ESTIMATED AV EQUIPMENT COOLING LOAD, INCLUDING UPS CONVERSION LOSSES AND NORMAL OPERATING DIVERSITY:
RACK 1: APPROX. 5,500 BTUH
RACK 2: APPROX. 6,300 BTUH
TOTAL AV EQUIPMENT LOAD: APPROX. 12,000 BTUH
PROVIDE HVAC CAPACITY TO MAINTAIN MANUFACTURER-RECOMMENDED OPERATING CONDITIONS FOR ALL INSTALLED EQUIPMENT.

3. DISTRIBUTE POWER CONNECTIONS SUCH THAT NO UPS OUTPUT OR ASSOCIATED 20A BRANCH CIRCUIT EXCEEDS 16A CONTINUOUS LOAD. BALANCE NETWORK SWITCHES, DSP EQUIPMENT, CONTROL PROCESSORS, AV ENDPOINTS, AND AMPLIFIERS ACROSS THE AVAILABLE UPS SYSTEMS TO MAINTAIN APPROXIMATELY EQUAL LOADING.

4. PROVIDE ONE SPARE 120VAC, SINGLE-PHASE, 20A BRANCH CIRCUIT TERMINATED ADJACENT TO EACH AV EQUIPMENT RACK FOR FUTURE EXPANSION. SPARE CIRCUITS SHALL BE IDENTIFIED IN PANEL SCHEDULES AND LEFT AVAILABLE FOR FUTURE AUDIOVISUAL EQUIPMENT LOADS.



2 TA401 A.V. / I.T. - RACK ELEVATION
N.T.S.



1 TA401 AUDIOVISUAL PLAN - A.V. / I.T. 106
1/4" = 1'-0"

PROJECT TEAM

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License # _____, Expiration Date ___/___/_____

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PROJECT ADDRESS

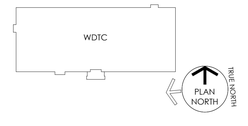
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CHK'D BY: NHA

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ISSUE DATE: **11/06/2026**
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ENLARGED AUDIOVISUAL PLANS

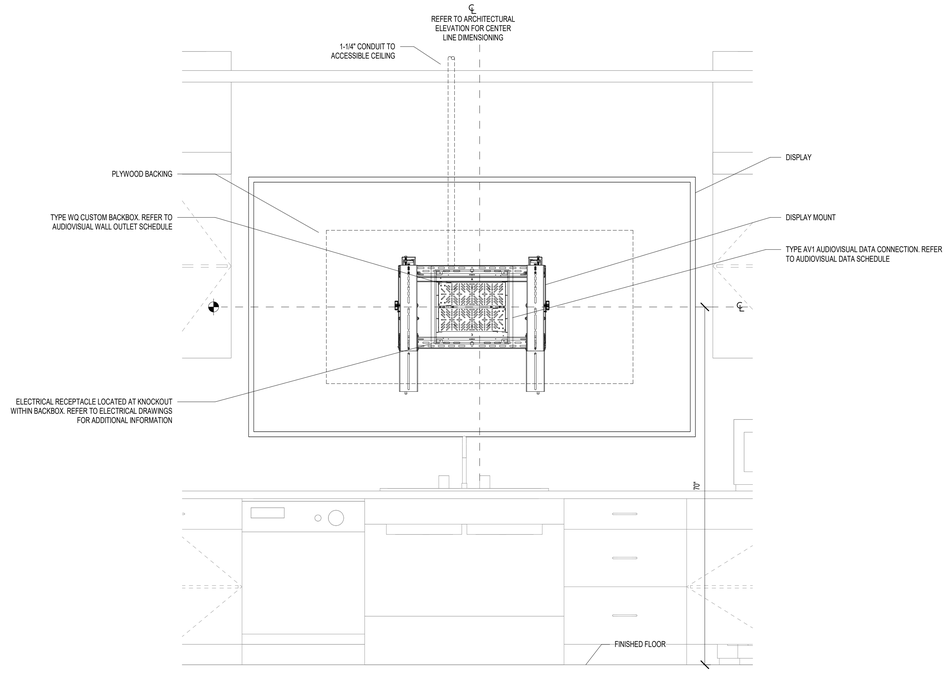
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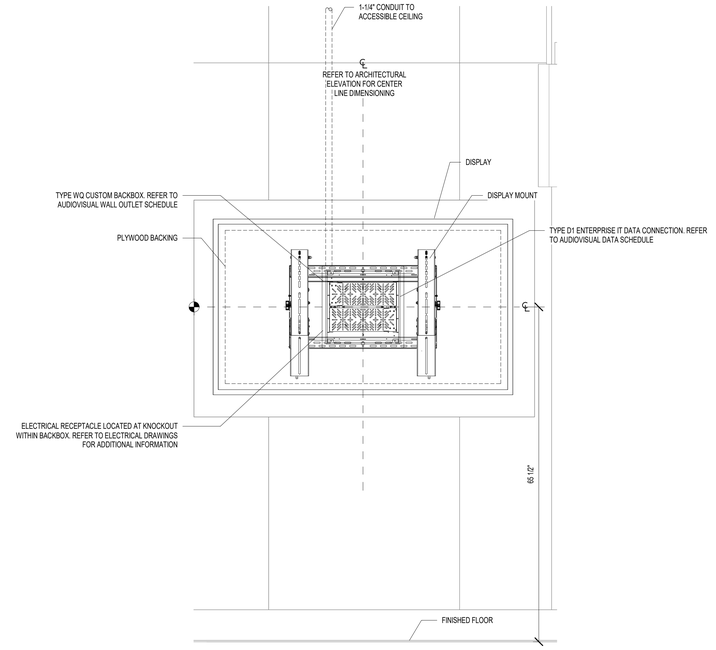
SHEET 142 OF 172

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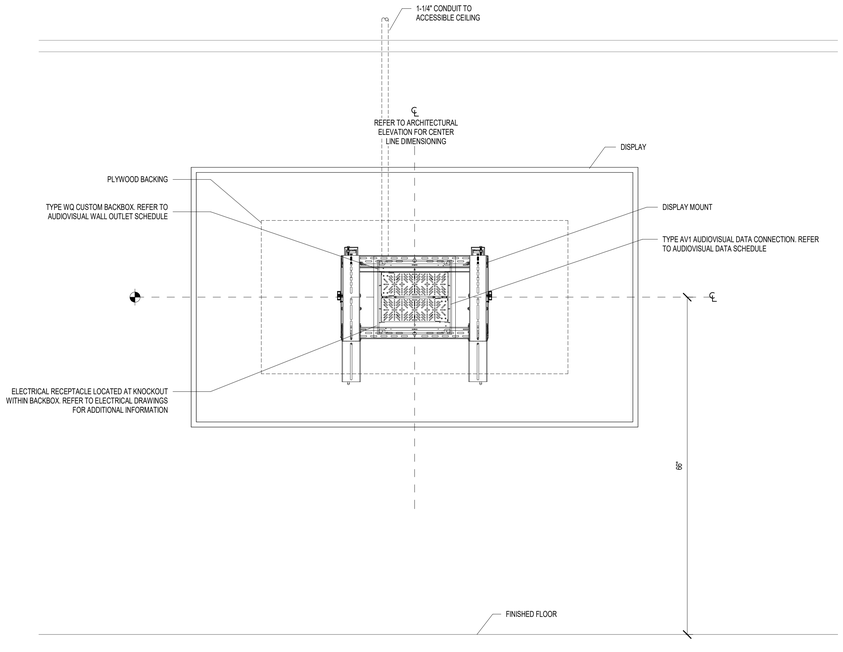
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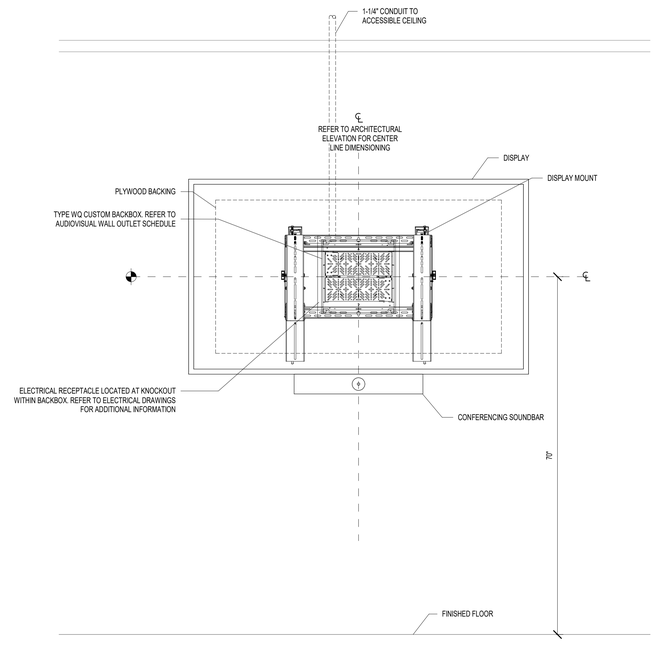
4 TA501 KITCHEN LAB DISPLAY ELEVATION
1" = 1'-0"



2 TA501 TYPICAL SIGNAGE 65" DISPLAY ELEVATION
1" = 1'-0"



3 TA501 TYPICAL LAB 98" DISPLAY ELEVATION
1" = 1'-0"



1 TA501 TYPICAL SEMINAR 75" DISPLAY ELEVATION
1" = 1'-0"

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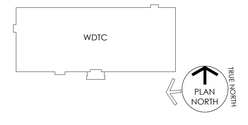
12401 WILLOWBROOK RD, SE
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Maryland DEPARTMENT OF GENERAL SERVICES

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AUDIOVISUAL DETAILS

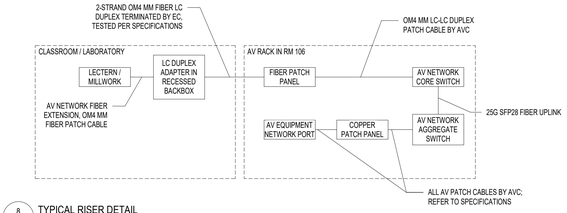
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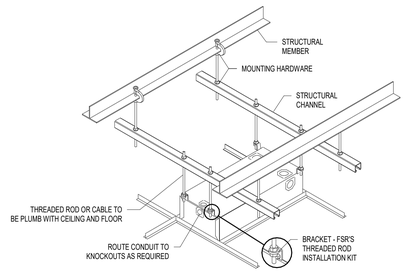
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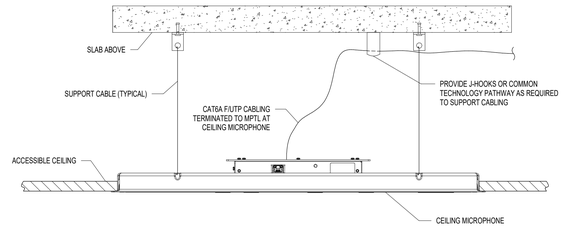
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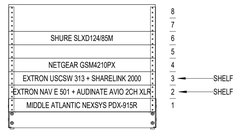
8 TA502 TYPICAL RISER DETAIL
N.T.S.



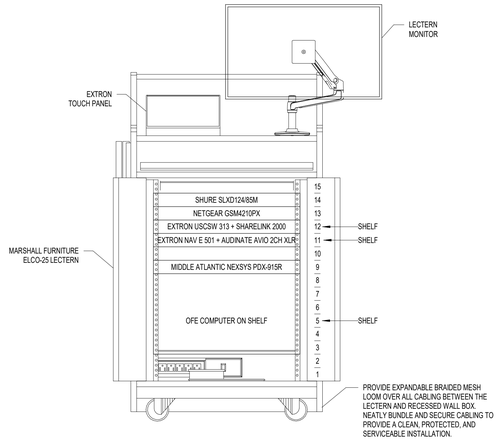
7 TA502 AUDIO VISUAL CEILING ENCLOSURE MOUNTING DETAIL - TYPE PJA AND CJA
N.T.S.



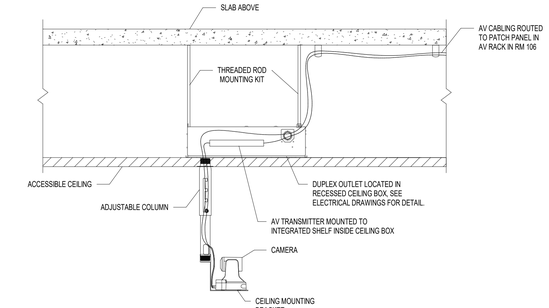
6 TA502 LARGE CONFERENCE ROOM ACCESSIBLE CEILING MICROPHONE DETAIL - TYPE MXA
N.T.S.



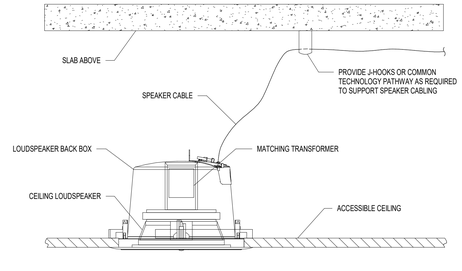
10 TA502 TYPICAL RK-3 LECTERN RACK ELEVATION
N.T.S.



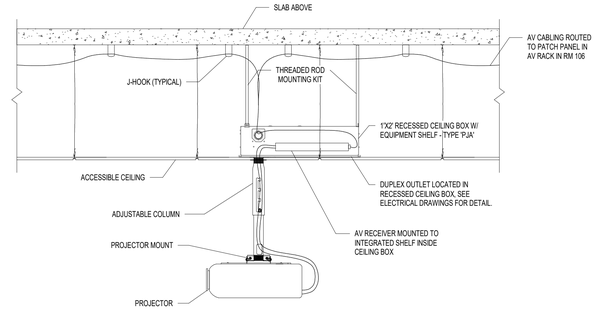
9 TA502 TYPICAL RK-1 LECTERN RACK ELEVATION
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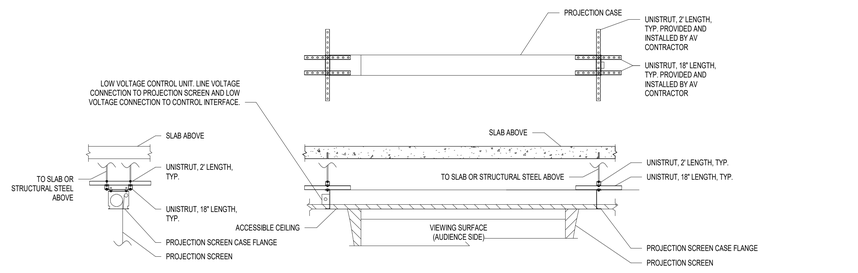
5 TA502 CEILING MOUNTED CAMERA DETAIL - TYPE CJA
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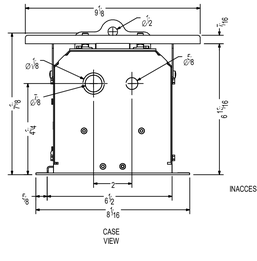
4 TA502 CEILING SPEAKER MOUNTING DETAIL - TYPE SXA
N.T.S.

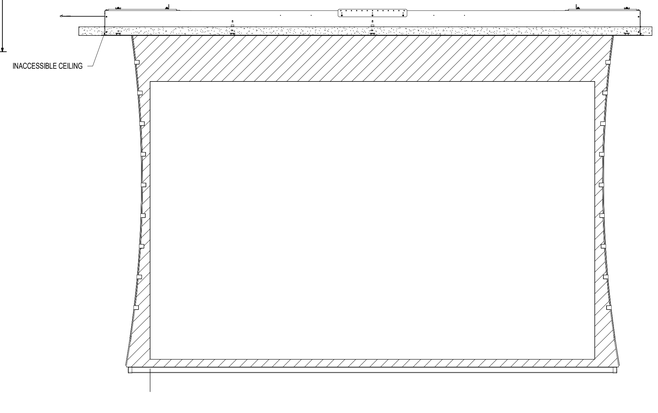


3 TA502 CEILING MOUNTED PROJECTOR DETAIL - TYPE PJA
N.T.S.



2 TA502 PROJECTION SCREEN MOUNTING DETAIL
N.T.S.





1 TA502 PROJECTION SCREEN DETAIL
N.T.S.

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

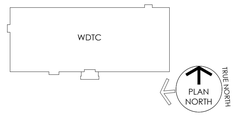
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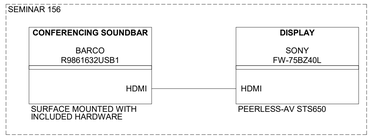
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SHEET 144 OF 172

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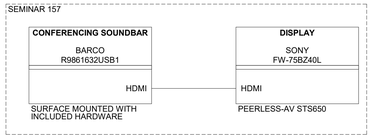
11/3/2026 11:38:03 AM Autodesk Docs://25909 Allegany College of MD\ACM-WTDC Renovation\Allegany College Central Tech R25.rvt



1 TA801 SEMINAR ROOM 156
N.T.S.

SEMINAR ROOM 156

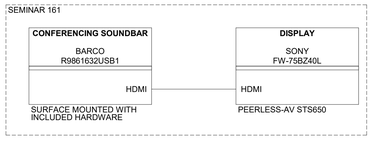
MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
BARCO	R9861632USB1	CLICKSHARE BAR CORE CONFERENCING SOUNDBAR	1
SONY	FW-75BZ40L	4K HDR DISPLAY	1
MISCELLANEOUS			
PEERLESS-AV	STS650	UNIVERSAL SCISSOR MOUNT FOR 39-85"+ DISPLAYS	1



2 TA801 SEMINAR ROOM 157
N.T.S.

SEMINAR ROOM 157

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
BARCO	R9861632USB1	CLICKSHARE BAR CORE CONFERENCING SOUNDBAR	1
SONY	FW-75BZ40L	4K HDR DISPLAY	1
MISCELLANEOUS			
PEERLESS-AV	STS650	UNIVERSAL SCISSOR MOUNT FOR 39-85"+ DISPLAYS	1



3 TA801 SEMINAR ROOM 161
N.T.S.

SEMINAR ROOM 161

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
BARCO	R9861632USB1	CLICKSHARE BAR CORE CONFERENCING SOUNDBAR	1
SONY	FW-75BZ40L	4K HDR DISPLAY	1
MISCELLANEOUS			
PEERLESS-AV	STS650	UNIVERSAL SCISSOR MOUNT FOR 39-85"+ DISPLAYS	1

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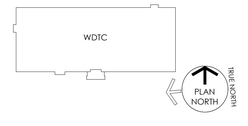
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AUDIOVISUAL LOGICAL DIAGRAMS

SHEET NUMBER:

TA801

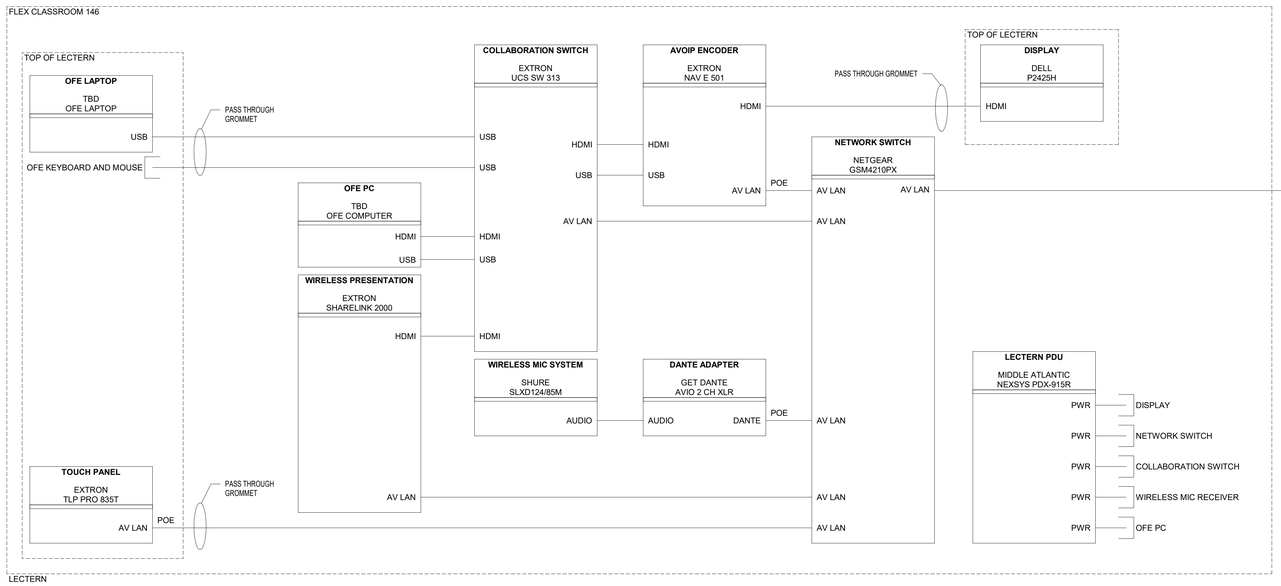
SHEET 145 OF 172

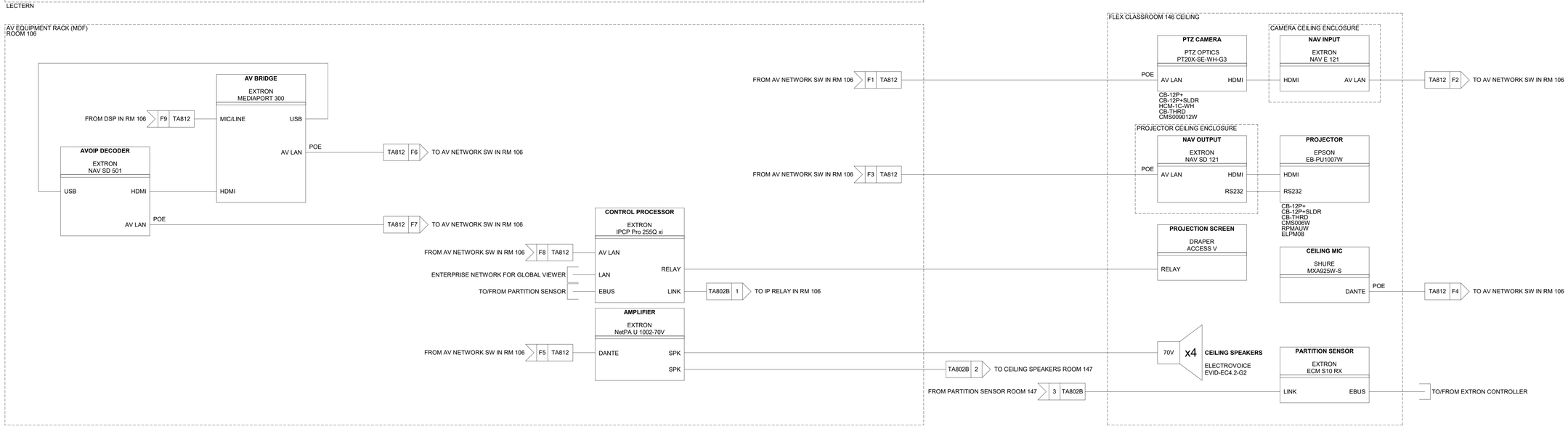
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FLEX CLASSROOM 146

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA U 1002-70V	2 CHANNEL 70V AMPLIFIER (60-1767-02)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 RX	PARTITION SENSOR (60-1705-03)	1
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1





1 TA802A FLEX CLASSROOM 146
N.T.S.

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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P: 410.296.6500

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Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
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Signature_____ Date _____
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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

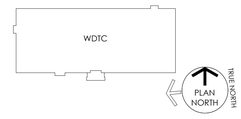
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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	50% CONSTRUCTION DOCUMENTS	06/26/2026
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CAD DWG FILE:
DRAWN BY: NHA
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JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

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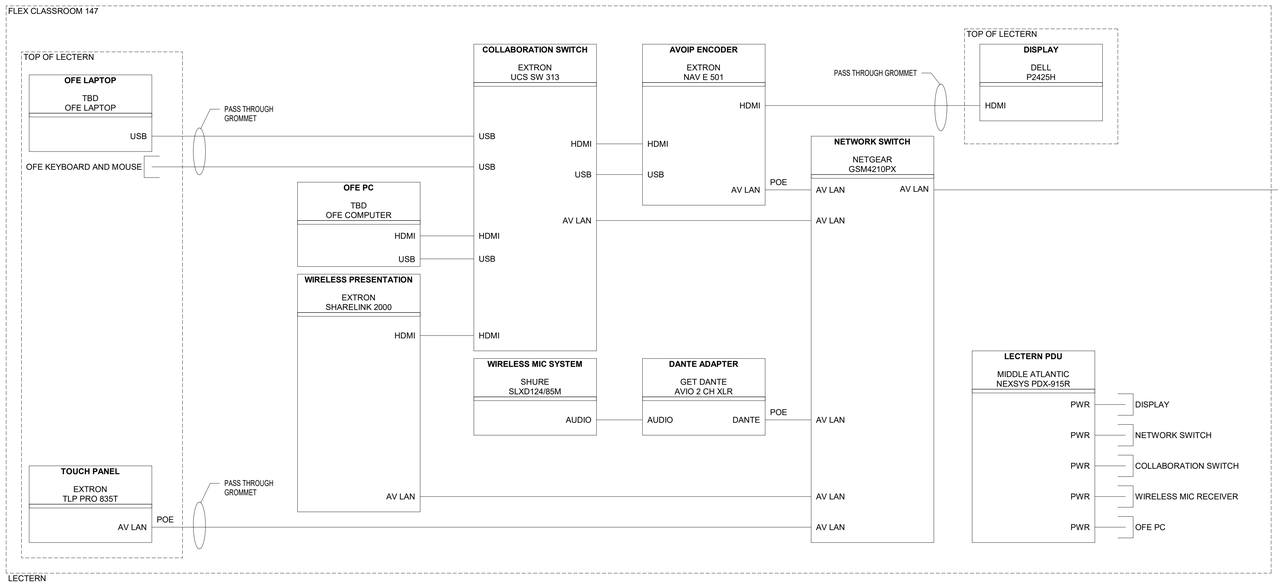
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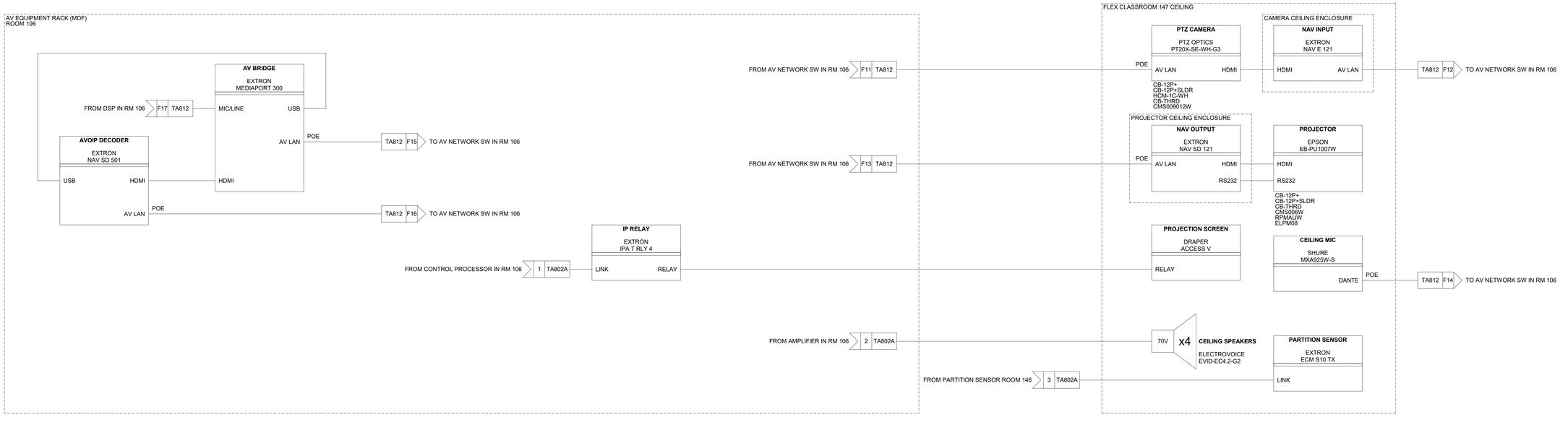
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FLEX CLASSROOM 147

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	IPA T RLY 4	IP LINK ACCESSORY WITH FOUR RELAYS (60-545-03)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 TX	PARTITION SENSOR (60-1705-03)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
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MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
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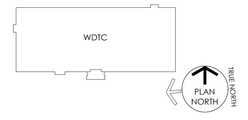
12401 WILLOWBROOK RD, SE
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Maryland DEPARTMENT OF GENERAL SERVICES

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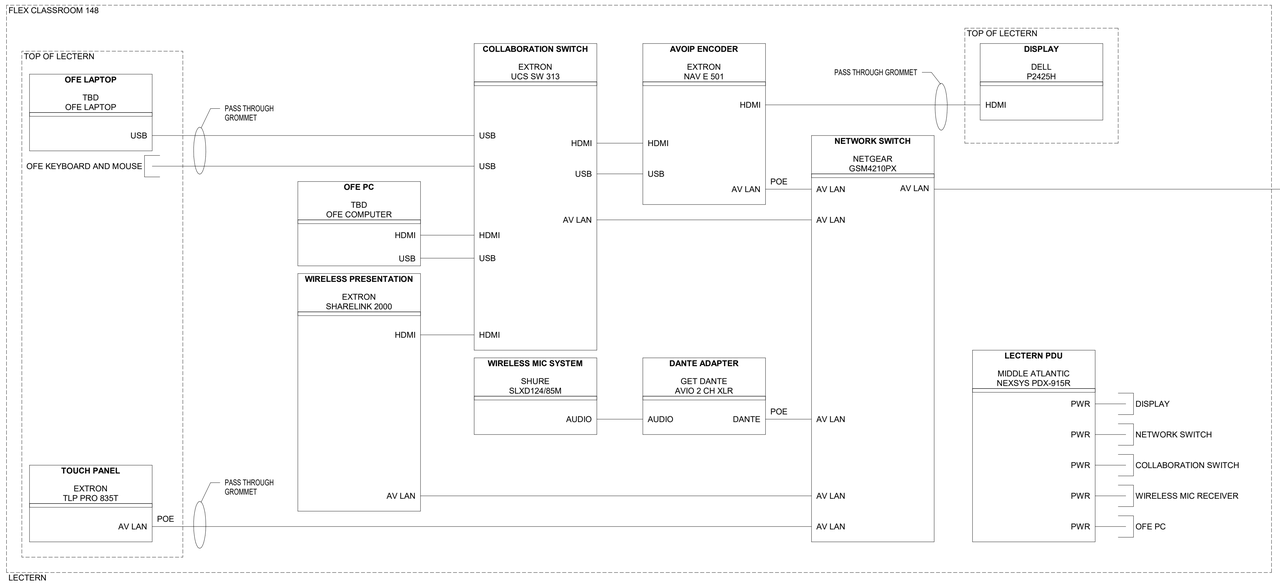
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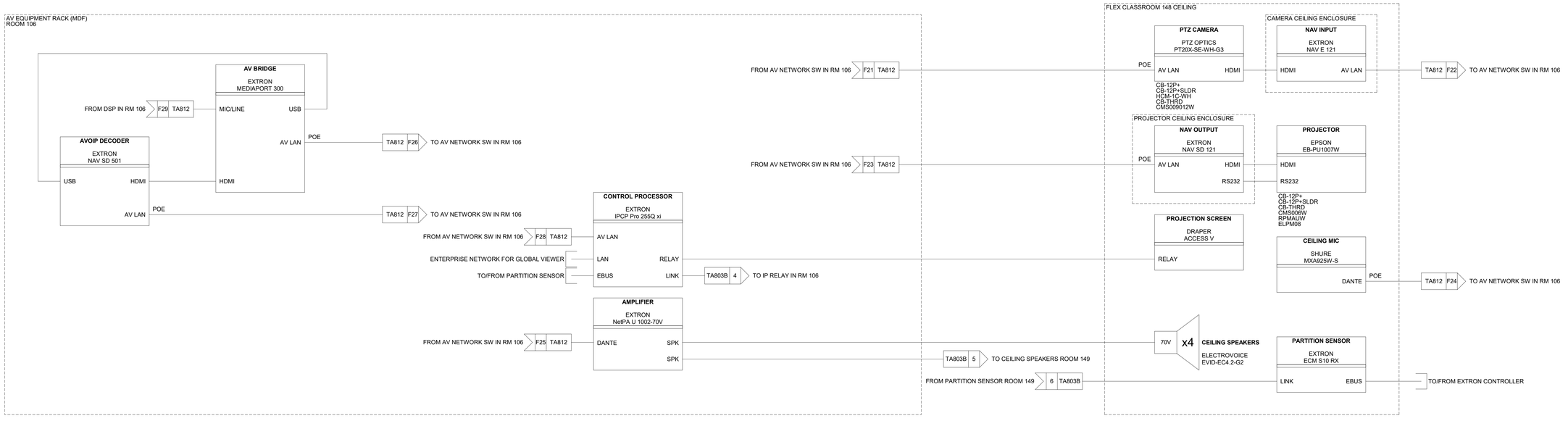
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FLEX CLASSROOM 148

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
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EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA U 1002-70V	2 CHANNEL 70V AMPLIFIER (60-1767-02)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 RX	PARTITION SENSOR (60-1705-03)	1
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1





1 TA803A FLEX CLASSROOM 148
N.T.S.

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PROJECT TEAM

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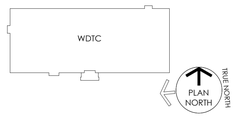
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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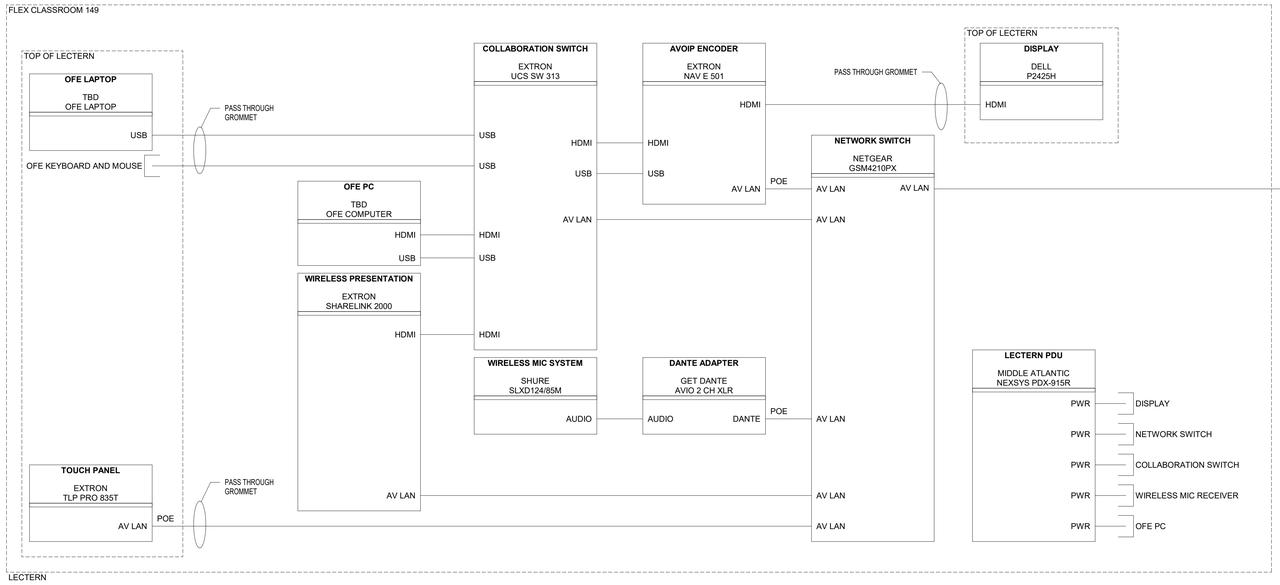
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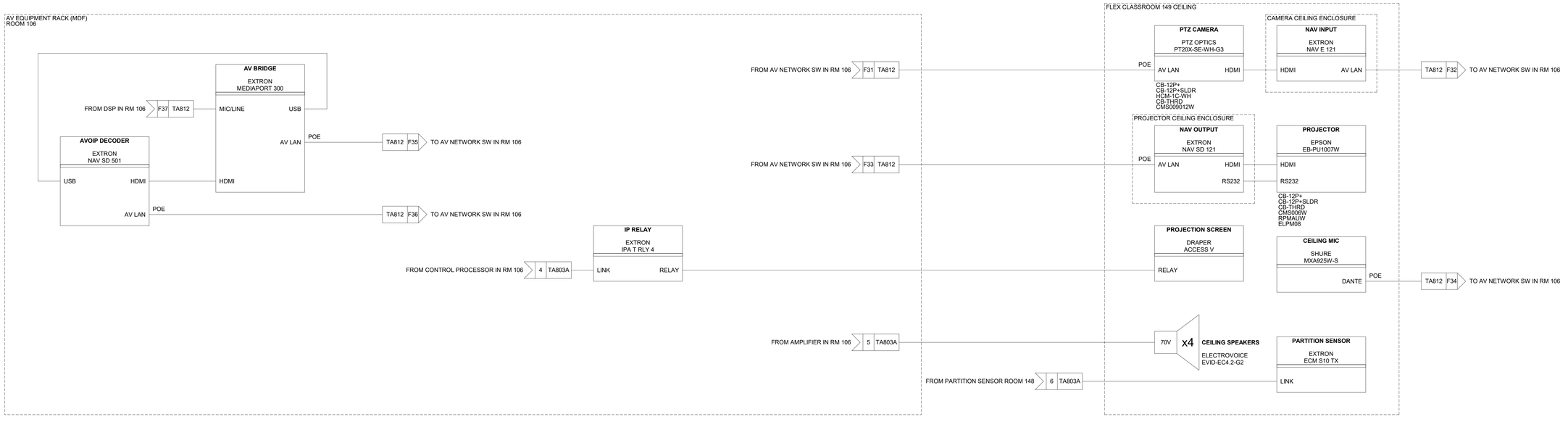
SHEET 148 OF 172

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FLEX CLASSROOM 149

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	IPA T RLY 4	IP LINK ACCESSORY WITH FOUR RELAYS (60-545-03)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 TX	PARTITION SENSOR (60-1705-03)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1





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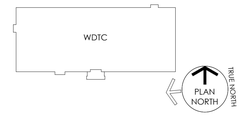
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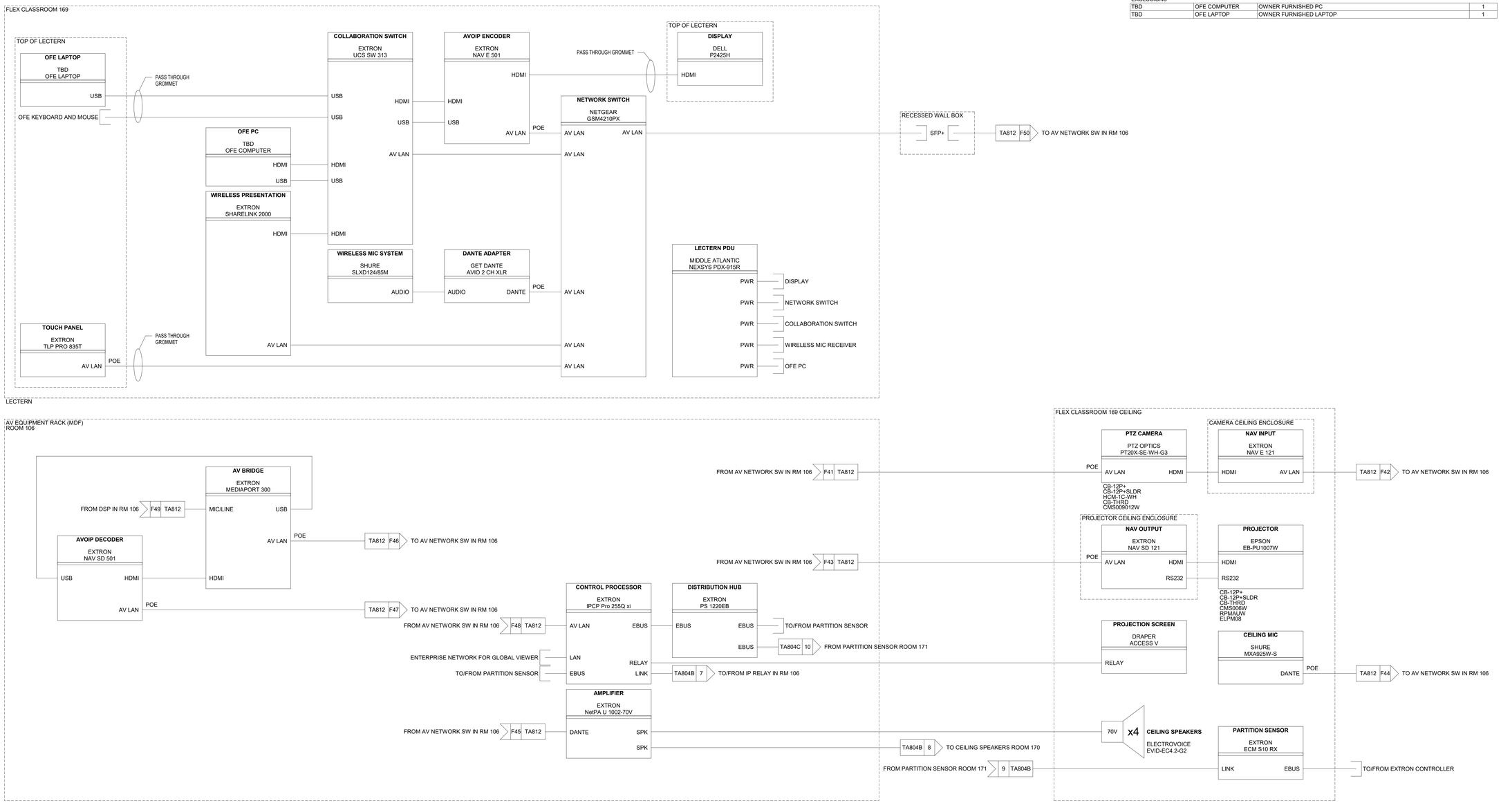
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FLEX CLASSROOM 169

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EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
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AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA U 1002-70V	2 CHANNEL 70V AMPLIFIER (60-1767-02)	1
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SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 RX	PARTITION SENSOR (60-1705-03)	1
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	PS 1220EB	DISTRIBUTION HUB (70-988-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA804A FLEX CLASSROOM 169 N.T.S.

PROJECT TEAM

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Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

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Signature _____ Date _____
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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

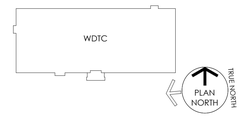
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
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DRAWN BY:	NHA
CHK'D BY:	NHA

JOB NUMBER:	25909 - DGS# CC-10-MC25-488
ISSUE DATE:	11/06/2026

SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

SHEET NUMBER:

TA804A

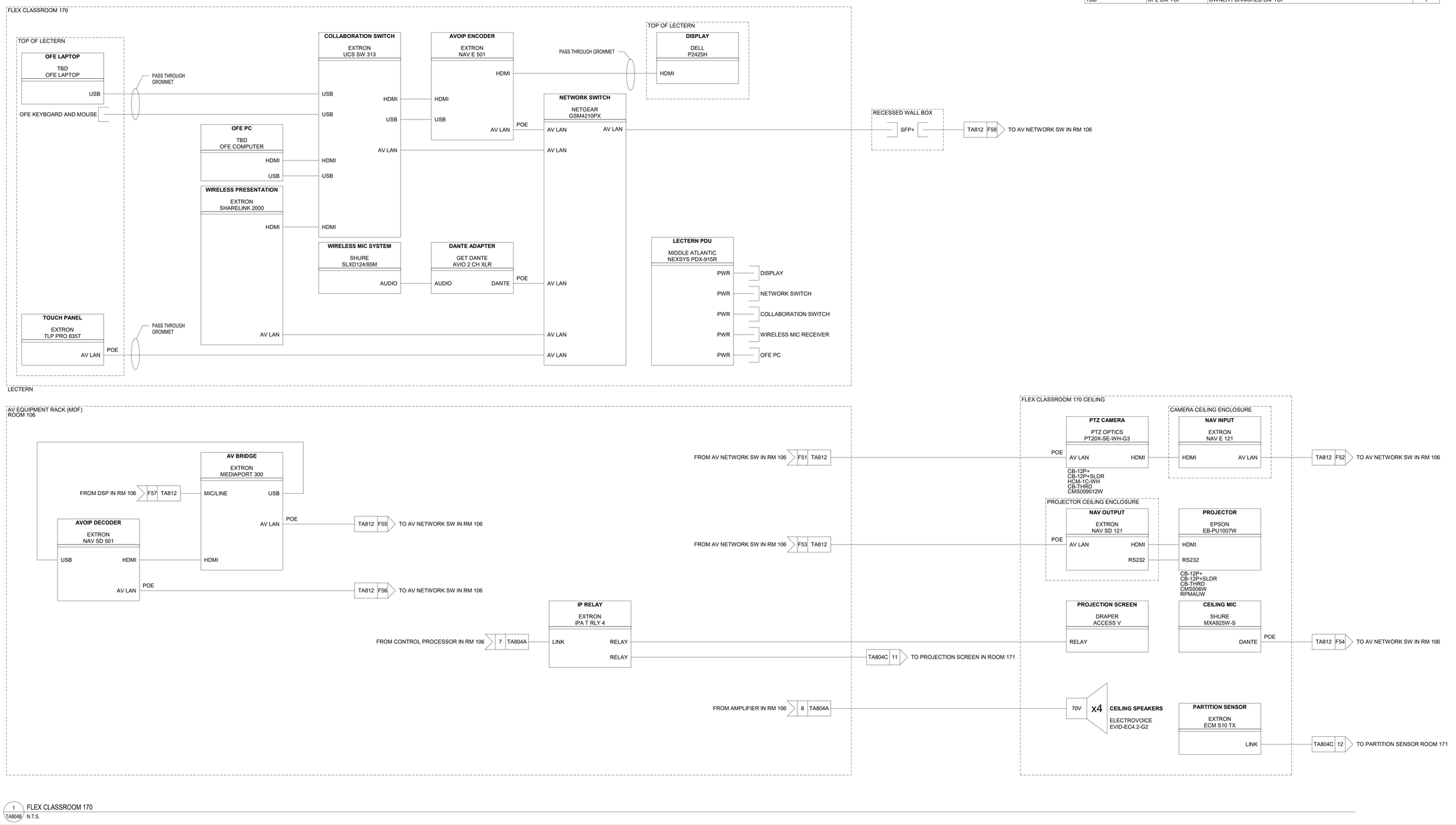
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Autodesk Docs://25909 Allegany College of MD ACM WTDC Renovation/Allegany College Central Tech R25.rvt
11/3/2025 11:38:07 AM

FLEX CLASSROOM 170

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	IPA T RLY 4	IP LINK ACCESSORY WITH FOUR RELAYS (60-545-03)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 TX	PARTITION SENSOR (60-1705-03)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA804B FLEX CLASSROOM 170
N.T.S.

11/3/2026 11:38:08 AM Autodesk Docs://25909 Allegany College of MD ACM MTDC Renovation/Allegany College Central Tech R25.rvt

PROJECT TEAM

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ARCHITECTS
6 NORTH EAST STREET, SUITE 300
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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

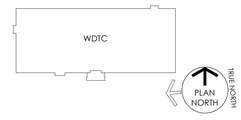
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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SHEET NUMBER:

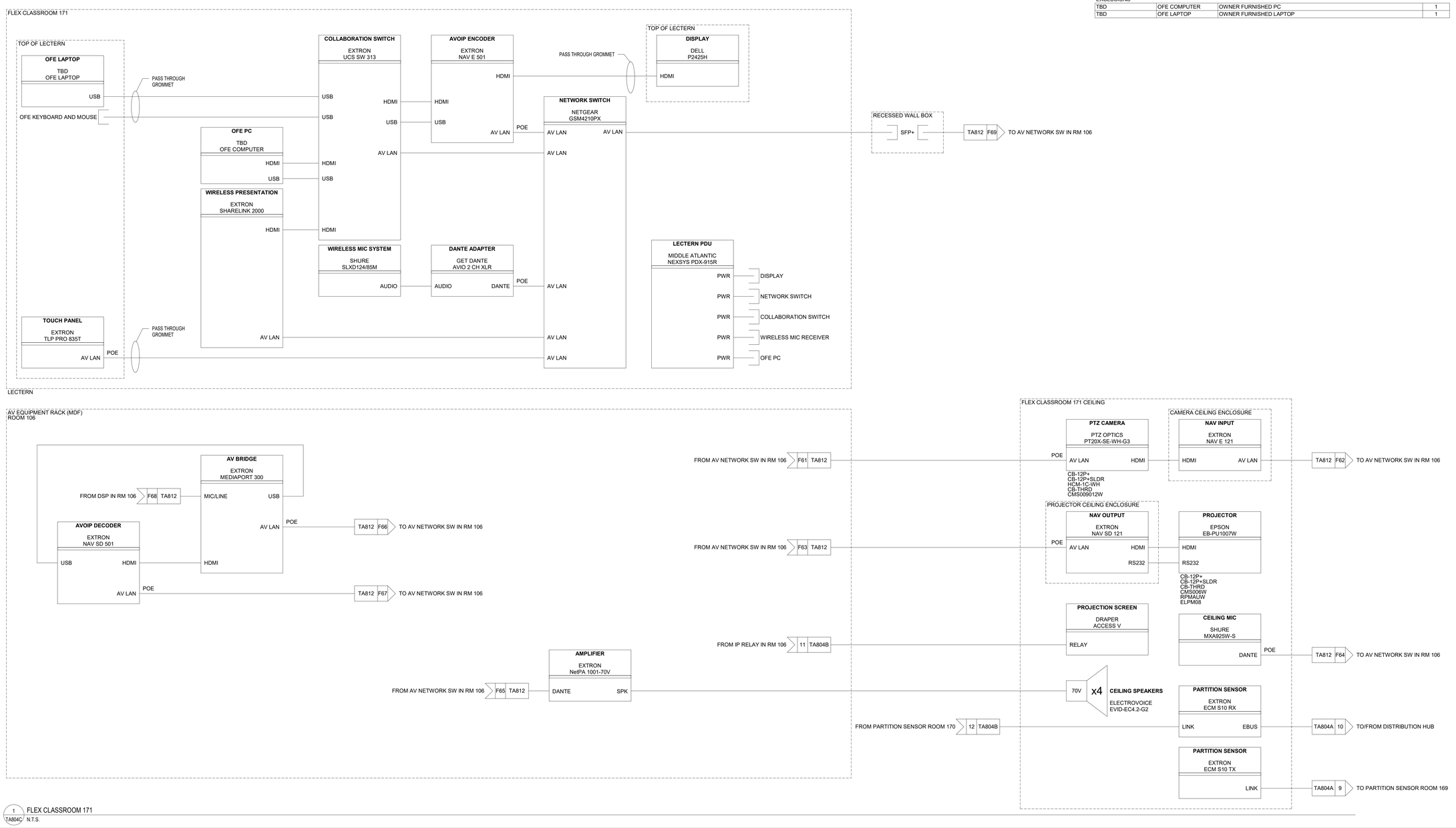
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SHEET 151 OF 172

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FLEX CLASSROOM 171

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	ECM S10 RX	PARTITION SENSOR (60-1705-03)	1
EXTRON	ECM S10 TX	PARTITION SENSOR (60-1705-03)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA804C FLEX CLASSROOM 171
N.T.S.

11/3/2026 11:38:08 AM Autodesk Docs://25909 Allegany College of MD ACM MTDC Renovation/Allegany College Central Tech-R25.rvt

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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6 NORTH EAST STREET, SUITE 300
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P: 410.296.6500

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Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

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Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

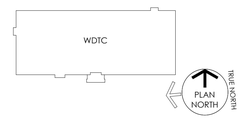
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
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CHK'D BY:	NHA

JOB NUMBER:	25909 - DGS# CC-10-MC25-488
ISSUE DATE:	11/06/2026

SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

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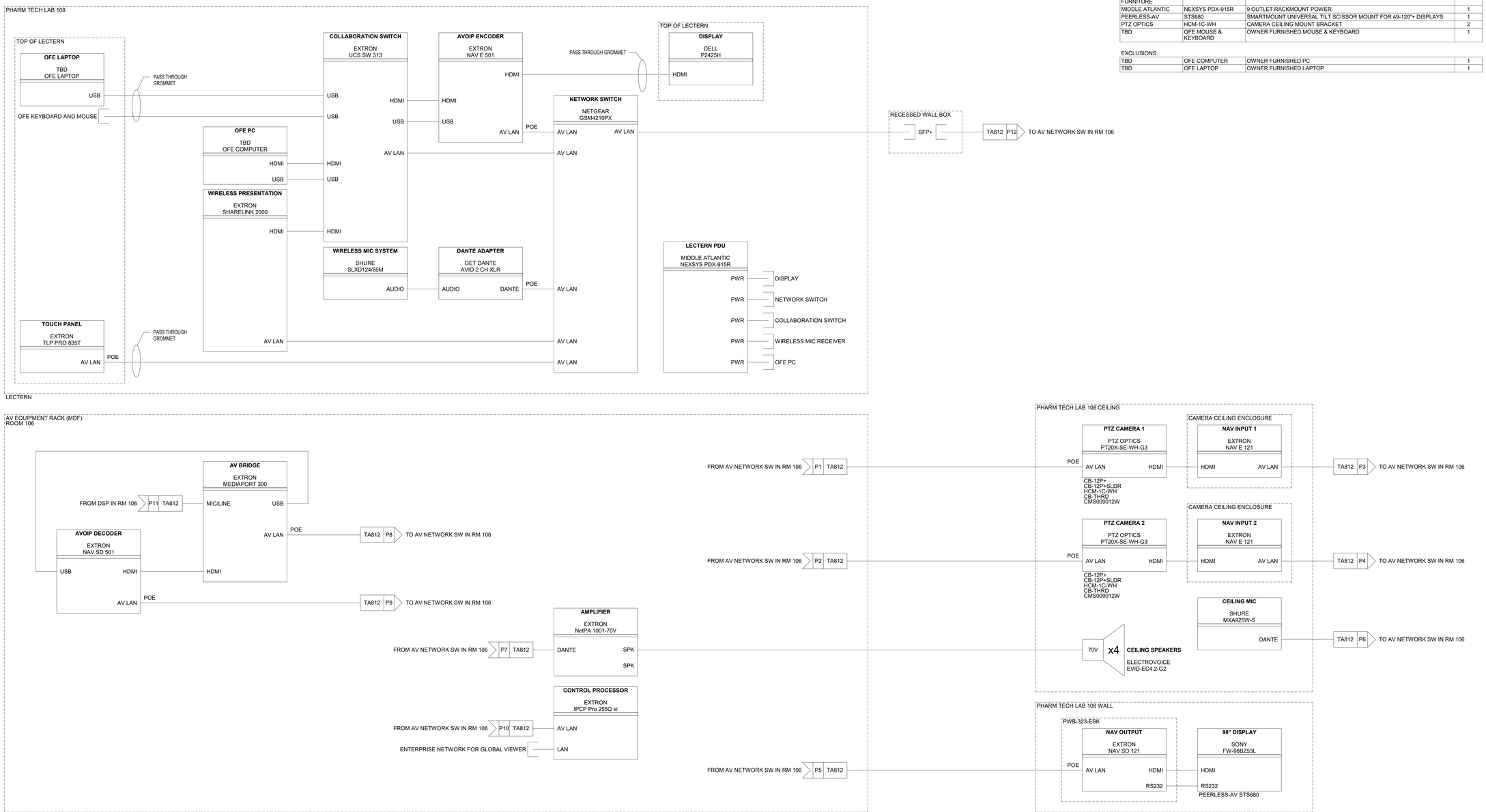
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SHEET 152 OF 172

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PHARM TECH LAB 108

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	2
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	2
SONY	FW-98BZ53L	98" DIAGONAL, 780 NIT DISPLAY	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	2
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
FSR	PWB-323-ESK	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PEERLESS-AV	STS680	SMARTMOUNT UNIVERSAL TILT SCISSOR MOUNT FOR 49-120"+ DISPLAYS	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	2
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 / TA805 PHARM TECH LAB 108
N.T.S.

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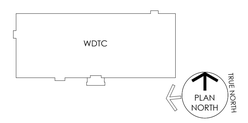
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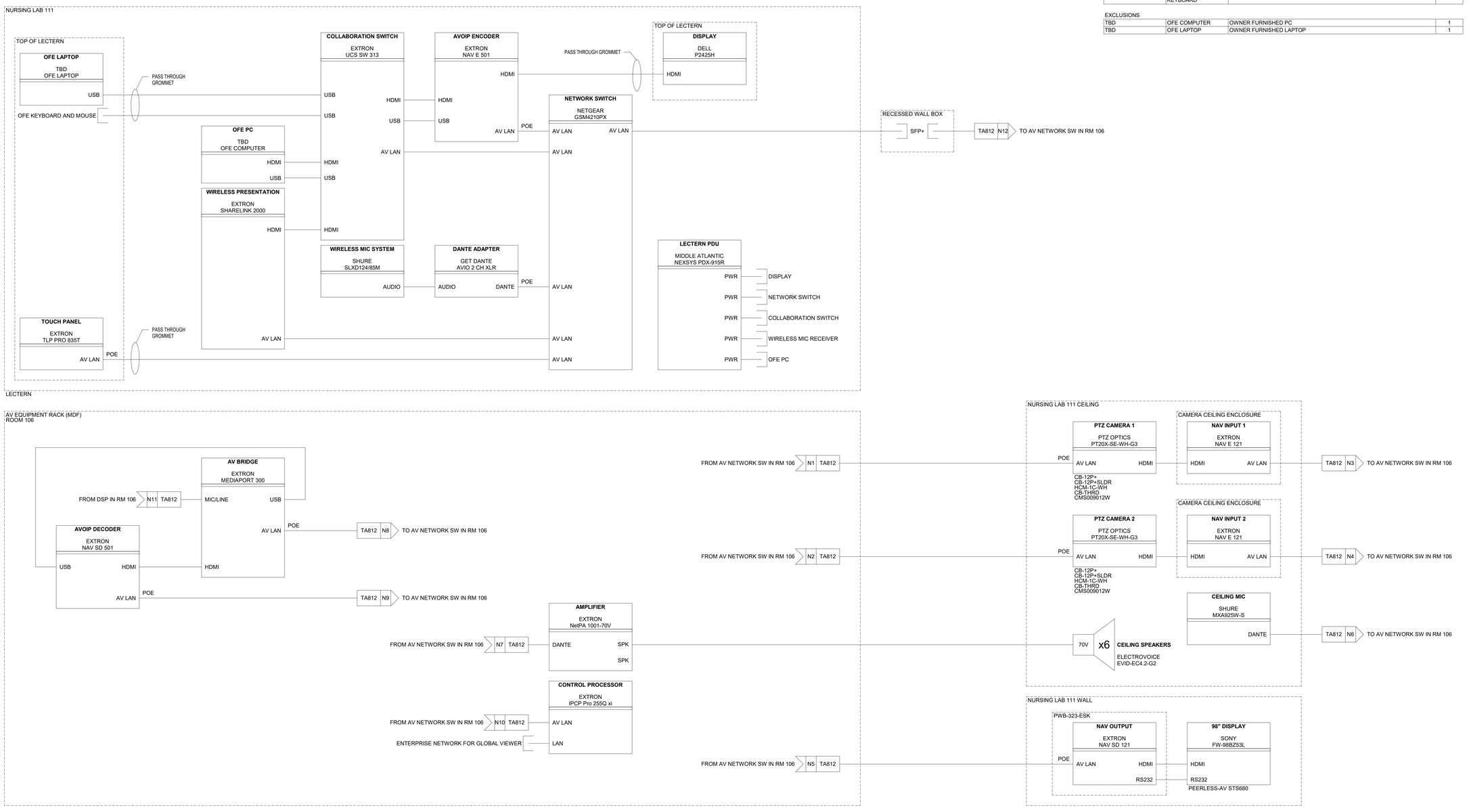
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11/3/2026 11:38:09 AM Autodesk Docs://25909 Allegany College of MD /ACM-WTDC Renovation/Allegany College Central Tech R25.rvt

NURSING LAB 111

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	2
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	2
SONY	FW-98BZ53L	98" DIAGONAL, 780 NIT DISPLAY	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	6
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
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MISCELLANEOUS			
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	2
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
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FSR	PWB-323-ESK	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PEERLESS-AV	STS680	SMARTMOUNT UNIVERSAL TILT SCISSOR MOUNT FOR 49-120"+ DISPLAYS	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	2
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA806 NURSING LAB 111
N.T.S.

Autodesk Docs://25909 Allegany College of MD ACM.WTDC Renovation/Allegany College Central Tech R25.rvt
11/3/2025 11:38:10 AM

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
ARCHITECTS
6 NORTH EAST STREET, SUITE 300
FREDERICK, MD | 21701-5680
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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

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Signature _____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

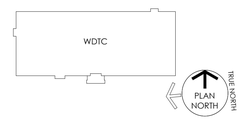
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

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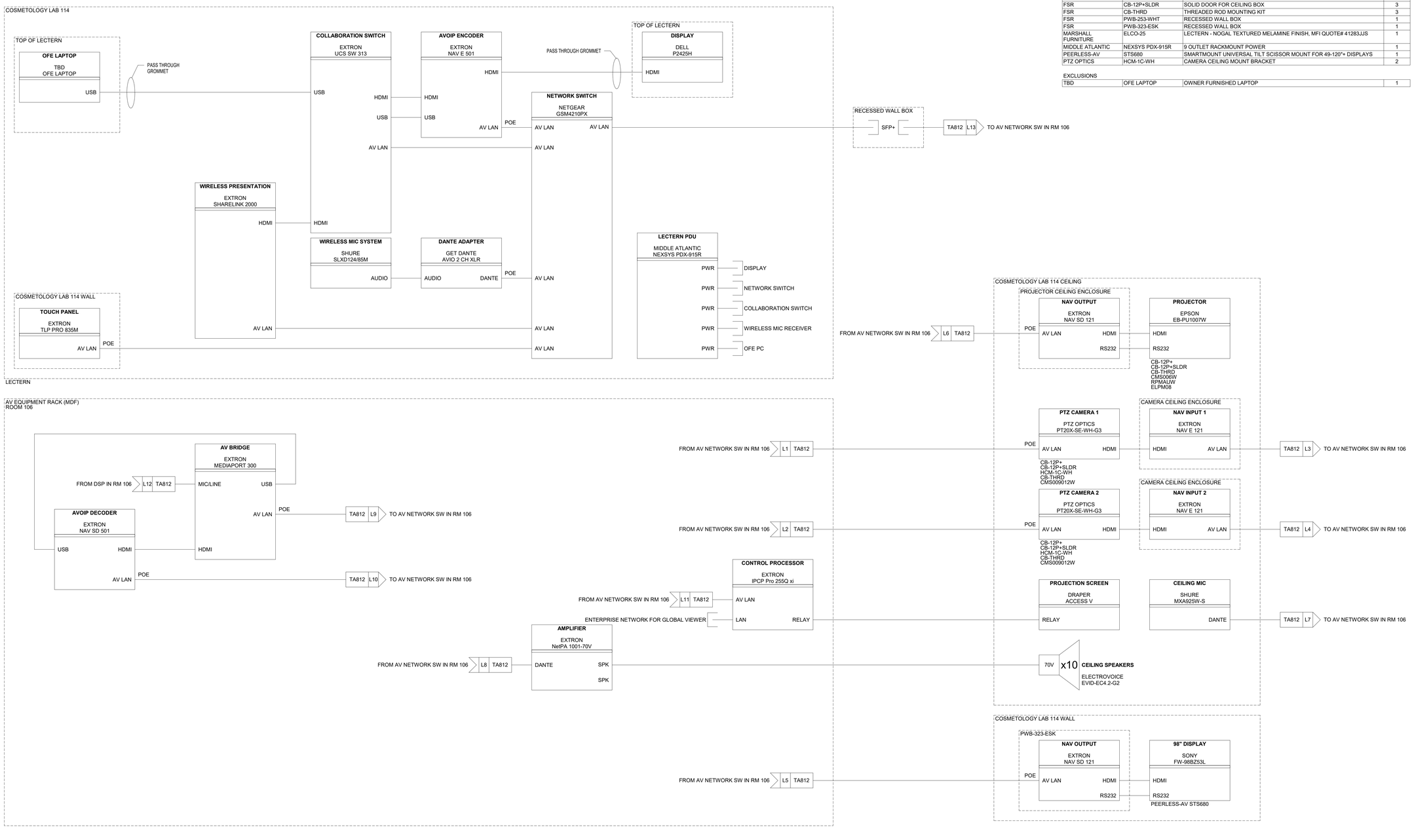
TA806

SHEET 154 OF 172

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COSMETOLOGY LAB 114

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	2
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	2
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	2
SONY	FW-98BZ53L	98" DIAGONAL, 780 NIT DISPLAY	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	10
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835M	8" WALL TOUCHLINK PRO TOUCHPANEL	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	2
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	3
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	3
FSR	CB-THRD	THREADED ROD MOUNTING KIT	3
FSR	PWB-253-WHT	RECESSED WALL BOX	1
FSR	PWB-323-ESK	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PEERLESS-AV	STS680	SMARTMOUNT UNIVERSAL TILT SCISSOR MOUNT FOR 49-120"+ DISPLAYS	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	2
EXCLUSIONS			
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA807 COSMETOLOGY LAB 114
N.T.S.

11/3/2026 11:38:10 AM Autodesk Docs://25909 Allegany College of MD ACM,VRTDC Renovation/Allegany College Central Tech R25.rvt

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

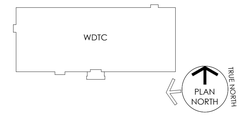
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

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CHK'D BY: NHA

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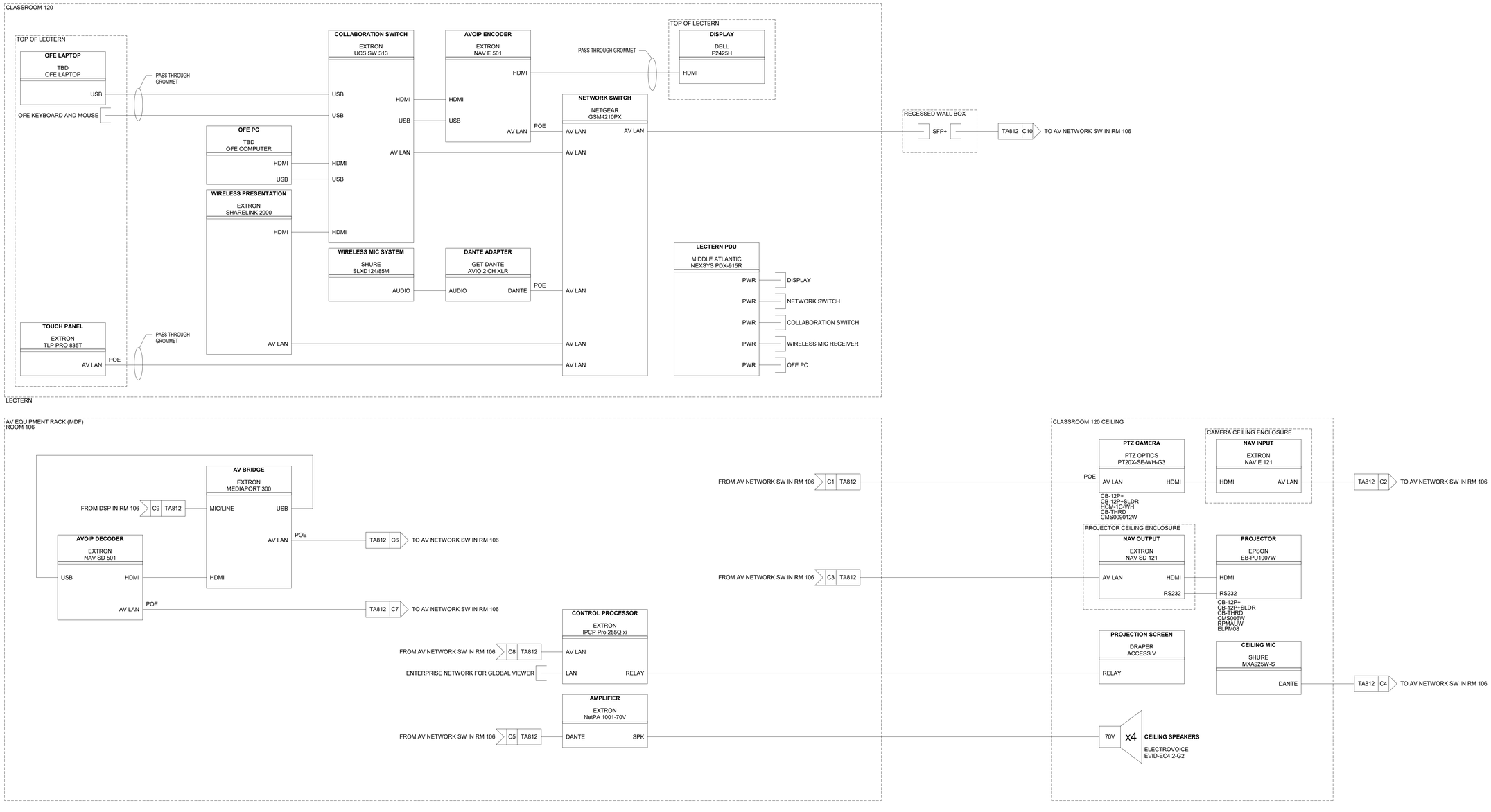
TA807

SHEET 155 OF 172

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CLASSROOM 120

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	1
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	4
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA808 CLASSROOM 120
N.T.S.

11/3/2025 11:38:11 AM Autodesk Docs://25909 Allegany College of MD ACM HTTC Renovation/Allegany College Central Tech R25.rvt

PROJECT TEAM

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6 NORTH EAST STREET, SUITE 300
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License # _____, Expiration Date ___/___/_____

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

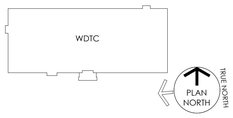
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



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	DESCRIPTION:	DATE:
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	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

SHEET NUMBER:

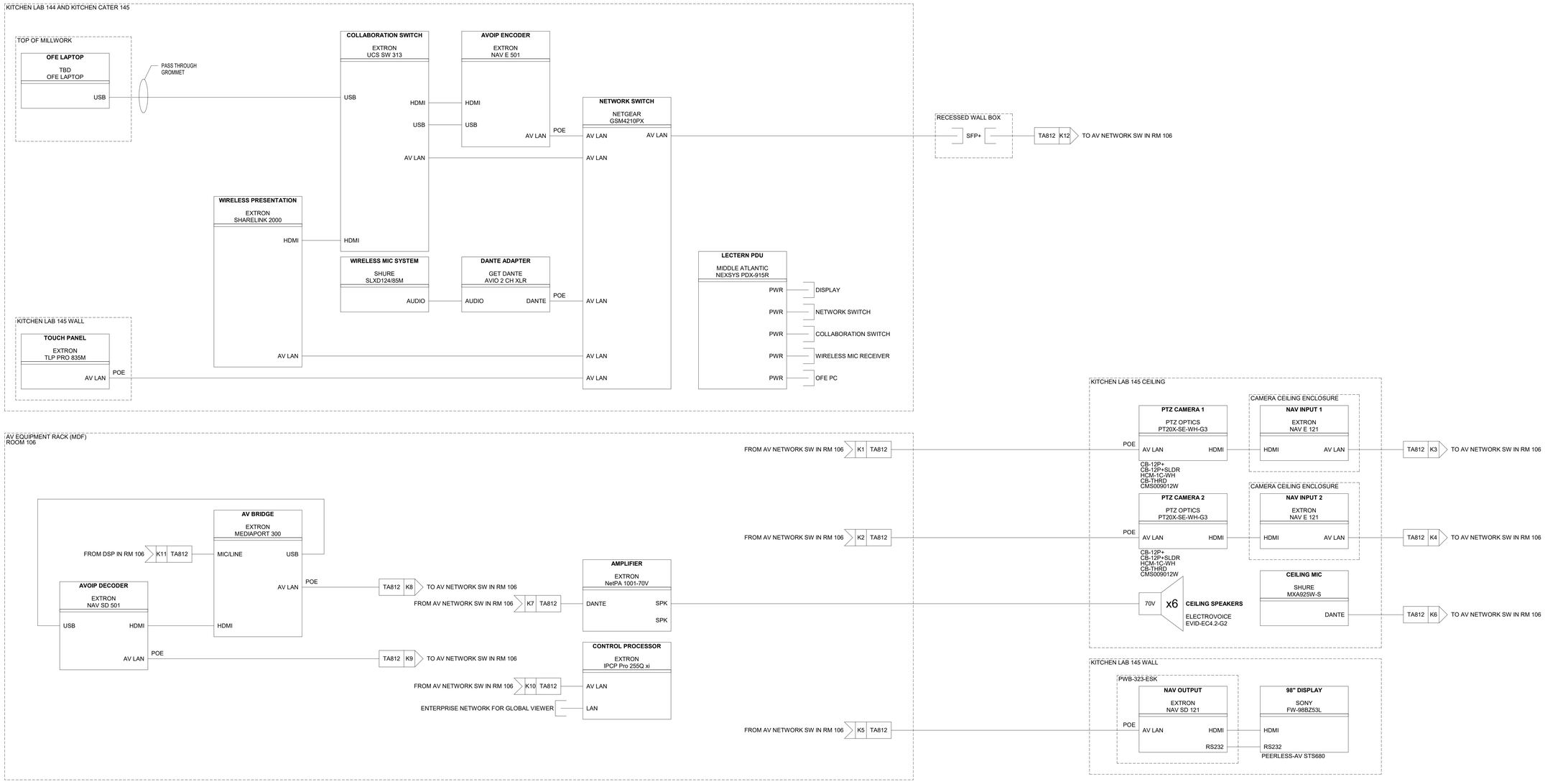
TA808

SHEET 156 OF 172

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KITCHEN LAB 145

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
EXTRON	NAV E 121	1G PRO AV OVER IP COMPACT ENCODER - HDMI (60-2040-01)	2
EXTRON	NAV E 501	1G PRO AV OVER IP ENCODER- HDMI, ETHERNET, AND USB (60-1525-01)	1
EXTRON	NAV SD 121	1G PRO AV OVER IP COMPACT SCALING DECODER - HDMI (60-2040-02)	1
EXTRON	NAV SD 501	1G PRO AV OVER IP SCALING DECODER - HDMI, ETHERNET, AND USB (60-1525-03)	1
EXTRON	SHARELINK 2000	4K WIRELESS PRESENTATION SYSTEM (60-1971-01)	1
EXTRON	UCS SW 313	THREE INPUT 4K/60 COLLABORATION AND PRESENTATION SWITCHER (60-1797-02)	1
PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	2
SONY	FW-98BZ53L	98" DIAGONAL, 780 NIT DISPLAY	1
AUDIO			
ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	6
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835M	8" WALL TOUCHLINK PRO TOUCHPANEL	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	2
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
FSR	CB-THRD	THREADED ROD MOUNTING KIT	2
FSR	PWB-253-WHT	RECESSED WALL BOX	1
FSR	PWB-323-ESK	RECESSED WALL BOX	1
MIDDLE ATLANTIC	DR-8	DESKTOP RAIL RACK (IN CABINETRY)	1
MIDDLE ATLANTIC	NEXSYS PDX-915R	9 OUTLET RACKMOUNT POWER	1
PEERLESS-AV	STS680	SMARTMOUNT UNIVERSAL TILT SCISSOR MOUNT FOR 49-120"+ DISPLAYS	1
PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	2
EXCLUSIONS			
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 TA809 KITCHEN LAB 145
N.T.S.

11/3/2025 11:38:12 AM Autodesk Docs://25909 Allegany College of MD ACM.WTDC Renovation/Allegany College Central Tech R25.rvt

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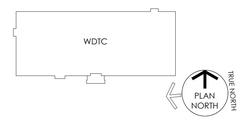
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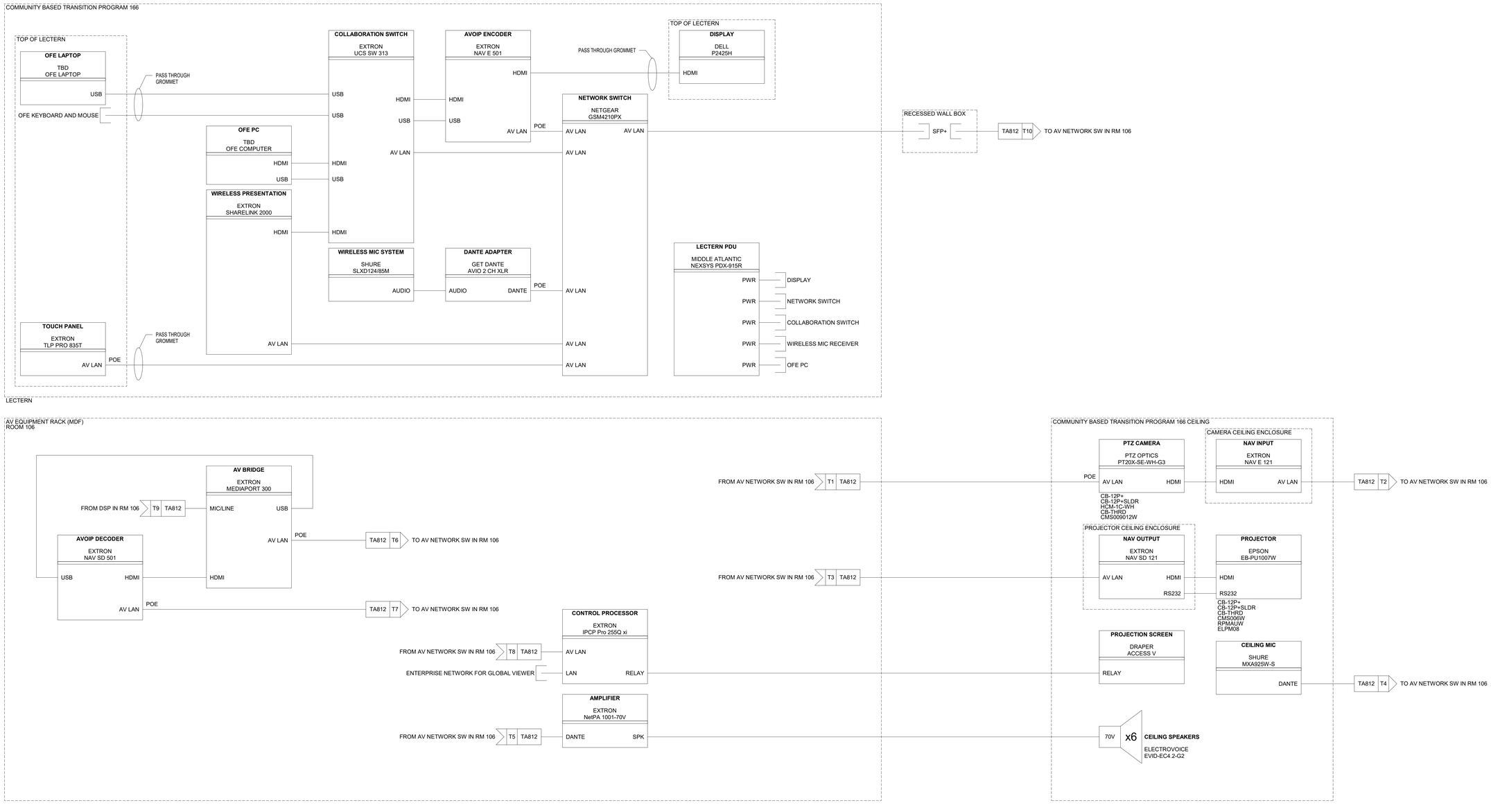
TA809

SHEET 157 OF 172

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COMMUNITY BASED -TRANSITION PROGRAM 166

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
DELL	P2425H	DELL PRO 24 PLUS MONITOR	1
DRAPER	ACCESS V	PROJECTION SCREEN (140030TPU)	1
EPSON	EB-PU1007W	LASER PROJECTOR	1
EPSON	ELPM08	MIDDLE THROW ZOOM LENS	1
EXTRON	MEDIAPORT 300	4K HDMI AND AUDIO TO USB SCALING BRIDGE (60-1873-01)	1
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PTZ OPTICS	PT20X-SE-WH-G3	PTZ CAMERA W/ AUTOTRACKING	1
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ELECTROVOICE	EVID-EC4.2-G2	TWO-WAY CEILING LOUDSPEAKER	6
EXTRON	NetPA 1001-70V	1 CHANNEL 70V AMPLIFIER (60-1501-01)	1
GET DANTE	AVIO 2 CH XLR	DANTE ADAPTER	1
SHURE	MXA925W-S	CEILING MICROPHONE ARRAY	1
SHURE	SLXD124/85M	WIRELESS MICROPHONE KIT	1
CONTROL			
EXTRON	IPCP Pro 255Q xi	IPCP PRO XI QUAD CORE CONTROL PROCESSOR (60-1914-01)	1
EXTRON	TLP PRO 835T	8" TABLETOP TOUCHLINK PRO TOUCHPANEL (60-1997-02)	1
NETGEAR	GSM4210PX	8x1G PoE+ 220W AND 2xSFP+ MANAGED SWITCH	1
MISCELLANEOUS			
CHIEF	CMS006W	6 INCH FIXED EXTENSION COLUMN	1
CHIEF	CMS009012W	9-12 INCH ADJUSTABLE EXTENSION COLUMN	1
CHIEF	RPMAUW	PROJECTOR MOUNT	1
FSR	CB-12P+	CEILING BOX	2
FSR	CB-12P+SLDR	SOLID DOOR FOR CEILING BOX	2
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FSR	PWB-253-WHT	RECESSED WALL BOX	1
MARSHALL FURNITURE	ELCO-25	LECTERN - NOGAL TEXTURED MELAMINE FINISH, MFI QUOTE# 41283JJS	1
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PTZ OPTICS	HCM-1C-WH	CAMERA CEILING MOUNT BRACKET	1
TBD	OFE MOUSE & KEYBOARD	OWNER FURNISHED MOUSE & KEYBOARD	1
EXCLUSIONS			
TBD	OFE COMPUTER	OWNER FURNISHED PC	1
TBD	OFE LAPTOP	OWNER FURNISHED LAPTOP	1



1 / TA810 COMMUNITY BASED -TRANSITION PROGRAM 166
N.T.S.

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Wright Engineering, LLC
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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature _____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN

ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

AUDIOVISUAL LOGICAL DIAGRAMS

SHEET NUMBER:

TA810

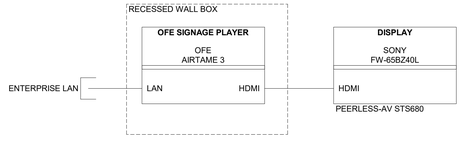
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DIGITAL SIGNAGE

MAKE	MODEL	DESCRIPTION	QTY
VIDEO			
OFE	AIRTAME 3	SIGNAGE PLAYER	4
SONY	FW-65BZ40L	65" 4K DISPLAY	4
MISCELLANEOUS			
FSR	PWB-323-ESK	RECESSED WALL BOX	4
PEERLESS-AV	STS680	SMARTMOUNT UNIVERSAL TILT SCISSOR MOUNT FOR 49-120"+ DISPLAYS	4



1 / TA811 DIGITAL SIGNAGE - TYPICAL OF 4 LOCATIONS
N.T.S.

PROJECT TEAM

NOELKER AND HULL ASSOCIATES, INC.
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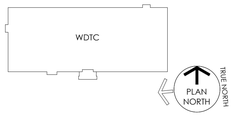
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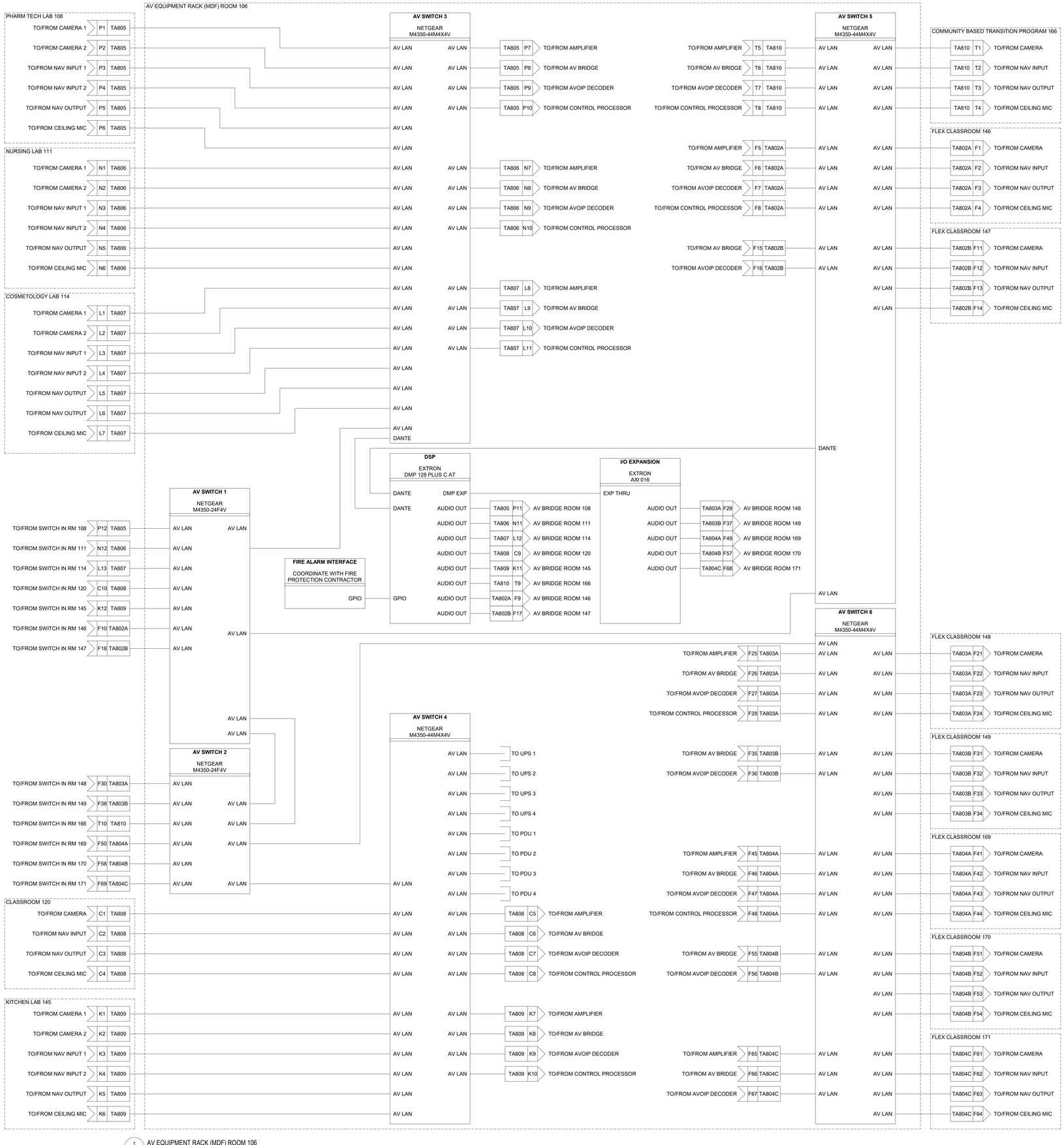
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AV EQUIPMENT RACK (MDF) ROOM 106

MAKE	MODEL	DESCRIPTION	QTY
AUDIO			
EXTRON	AXI 016	16 OUTPUT AUDIO EXPANSION INTERFACE (60-1690-01)	1
EXTRON	DMP 128 PLUS C AT	12x8 ProDSP DIGITAL MATRIX PROCESSORS (60-1512-10)	1
CONTROL			
NETGEAR	APS350W-100NES	350W 100-240VAC MODULAR PSU	2
NETGEAR	APS2000W-100NES	2000W 100-240VAC MODULAR PSU	4
NETGEAR	AXM763-10000S	10GE LRM SFP+ MODULE	30
NETGEAR	M4350-24F4V	24 PORT NETWORK SWITCH	2
NETGEAR	M4350-44M4X4V	48-PORT POE NETWORK SWITCH	4
MISCELLANEOUS			
MIDDLE ATLANTIC	MRK-44	44RU EQUIPMENT RACK	2
PANDUIT	FCE1U	FIBER TERMINATION PANEL	2
PANDUIT	PATCH PANEL	24-PORT SHIELDED PATCH PANEL (CP246X88BL)	4
PANDUIT	WMP1E	HORIZONTAL CABLE MANAGEMENT (22069415)	4
SURGEX	3000L-01	CARD NETWORK ADAPTER w/ENVIRONMENT SENSOR	3
SURGEX	3000L-02	NETWORK ADAPTER	1
SURGEX	SX-VS-1624	SMART VERTICAL PDU	4
SURGEX	UPS-2000-OL	STANDALONE BATTERY BACKUP	4

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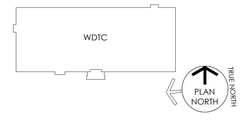
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TELECOM GENERAL NOTES:

1. THE DRAWINGS ARE DIAGRAMMATIC ONLY AND HAVE BEEN PROVIDED TO DEPICT THE GENERAL ARRANGEMENT OF THE EQUIPMENT, EQUIPMENT RACKS, AND CABLING CONNECTIVITY. THE CONTRACTOR SHALL PROVIDE ALL EQUIPMENT, DEVICES, COMPONENTS, CABLING, PATCH CORDS, EQUIPMENT RACKS AND APPURTENANCES IN SUFFICIENT QUANTITIES AND CONFIGURATIONS AS REQUIRED TO MEET THE REQUIREMENTS OF THE CONTRACT DOCUMENTS.

2. COORDINATE WITH ALL APPLICABLE TRADES IN SUBMITTAL OF SHOP DRAWINGS AND THE INSTALLATION OF ALL SYSTEMS. ALL SHOP DRAWINGS SHALL DETAIL SPACE CONDITIONS IN ORDER TO ACCOMMODATE OTHER CONCERNED TRADES. ALL EQUIPMENT LOCATIONS ARE SUBJECT TO FINAL REVIEW BY THE ARCHITECT.

3. PROVIDE IDENTIFICATION OF ALL EQUIPMENT CABINETS/RACKS, CONTROL PANELS, SUB-CONTROL PANELS, SYSTEM INTERFACE CABINETS, AND SIMILAR EQUIPMENT WITH 1-1/2 INCH WHITE LETTERING, ENGRAVED LAMINATED PLASTIC SIGNS SHALL BE USED FOR IDENTIFICATION AND SECURELY FASTENED IN ACCORDANCE WITH THE PROJECT REQUIREMENTS.

4. ALL WORK SHALL BE NEAT IN APPEARANCE, FREE OF ROUGH EDGES, SCRATCHES, BLEMISHES, CRACKS AND EXPOSED GAPS. ALL EQUIPMENT SHALL BE SECURED TO THE MOUNTING SURFACE, AND FASTENED WITH HARDWARE APPROVED BY THE MANUFACTURER AND CAPABLE OF SUPPORTING THE RATED LOAD. ALL CABLES WITHIN ENCLOSURES SHALL BE NEATLY ROUTED AND TIE WRAPPED AT 6 INCHES ON CENTER. ALL WIRE SPLICES SHALL BE TERMINATED ON TERMINAL STRIPS. SPLICES UTILIZING WIRE NUTS SHALL NOT BE ACCEPTABLE.

5. ALL OUTAGES SHALL BE SCHEDULED WITH FCPS IN ADVANCE, MINIMUM OF 21 DAYS.

6. PROVIDE NEW SUPPORTS FOR ALL CABLING (BOTH NEW AND RE-USED CABLING) FROM BUILDING STRUCTURE. PROVIDE APPROPRIATE BUILDING SUPPORTS INDEPENDENT OF BUILDING STRUCTURE FOR SUPPORT OF CABLES. CONDUITS, PIPING, DUCTWORK, ETC SHALL NOT BE USED TO SUPPORT CABLES.

7. ALL PENETRATIONS OF WALL AND FLOORS SHALL BE FIRESTOPPED IN ACCORDANCE WITH THE ASTM AND NFPA. REFER TO RELATED SPECIFICATION SECTIONS FOR ADDITIONAL INFORMATION. INSTALLATION OF FIRE-STOPS SHALL BE PERFORMED BY AN APPLICATOR/INSTALLER QUALIFIED AND TRAINED BY THE MANUFACTURER. INSTALLATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH MANUFACTURER'S DETAILED INSTALLATION PROCEDURES. THE CONTRACTOR IS REQUIRED TO PROPERLY FIRE-STOP ANY CORES UTILIZED FOR THE PLACEMENT OF COMMUNICATIONS CABLING WITH APPROVED FIRE-STOPPING COMPOUND AND ACCORDING TO LOCAL AND NATIONAL CODES.

8. REFER TO ALL RELATED SPECIFICATION SECTIONS AND DRAWINGS FOR ADDITIONAL INFORMATION.

9. COORDINATE LOCATION AND MOUNTING REQUIREMENTS OF ALL CEILING-MOUNTED OR ABOVE-CEILING-MOUNTED DEVICES WITH REFLECTED CEILING PLAN, LIGHTING LAYOUT, AND OTHER CEILING OR ABOVE-CEILING MOUNTED EQUIPMENT

10. PRIOR TO ROUGH-IN, COORDINATE EXACT DEVICE LOCATIONS, BACKBOX, AND CONDUIT REQUIREMENTS

11. CAREFULLY EXAMINE THE PREMISES TO DETERMINE THE EXTENT OF WORK AND THE CONDITION UNDER WHICH IT MUST BE DONE. IF THERE ARE ANY QUESTIONS REGARDING THE PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING CLARIFICATIONS FROM THE CONTRACTING OFFICER FOR AUTHORITY AND/OR DIRECTION BEFORE PROCEEDING WITH WORK OR RELATED WORK IN QUESTION.

12. ANY DISCREPANCIES BETWEEN THE PLANS AND ACTUAL FIELD CONDITIONS MUST BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER FOR DIRECTION.

13. ALL WORK IS TO BE DONE IN A THOROUGH AND PROFESSIONAL MANNER AND WILL BE SUBJECT TO INSPECTION AND ACCEPTANCE. WORK THAT IS DEEMED SUB-STANDARD WILL BE SUBJECT TO REPLACEMENT OR REPAIR AT NO ADDITIONAL COST TO THE OWNER.

14. COORDINATE PROJECTOR LOCATION TO LEAVE CLEAR AREA WITHIN A 2-FOOT RADIUS OF THE PROJECTOR POWER/DATA AS SHOWN ON THE DRAWINGS.

15. CEILING-MOUNTED SPEAKER ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE. DO NOT HANG SPEAKER ENCLOSURES FROM FINISHED CEILING.

16. EXISTING CABLING SHALL BE REMOVED IN ITS ENTIRETY AFTER NEW CABLING IS INSTALLED AND SYSTEMS ARE COMPLETE AND OPERATIONAL, THE CONTRACTOR SHALL PROTECT AND MAINTAIN THE EXISTING CABLING. ALL EXISTING CONNECTIONS TO REMAIN IN SERVICE DURING CONSTRUCTION.

17. CONTRACTOR SHALL HAVE THE OPTION TO RE-USE EXISTING LOW VOLTAGE CONDUITS AT OWN RISK. EXISTING CONDUITS TO BE REUSED ARE TO BE LEANED OUT BEFORE INSTALLATION OF CABLING.

SHEET NUMBER	SHEET NAME
T001	SYMBOLS, LEGENDS, AND ABBREVIATIONS - TELECOM
T002	TELECOM SITE PLAN
T101	TELECOM PLAN - FIRST FLOOR
T201	SECURITY PLAN - FIRST FLOOR
T400	RISERS - TELECOM
T401	DETAILS - TELECOM
T402	DETAILS - TELECOM
T403	DETAILS - TELECOM
T404	DETAILS - TELECOM
T405	DETAILS - SECURITY
T406	DETAILS - SECURITY
T407	DETAILS - SECURITY

GENERAL NOTES:

1. CONTRACTOR SHALL PROVIDE A QUANTITY OF 20 DUAL DATA OUTLETS. EACH OF THE 20 OUTLETS SHALL INCLUDE TWO CAT6 DATA JACKS , FACEPLATE, BACKBOX, 3/4" CONDUIT AND TWO CAT6 CABLES (ASSUME 150 FT EACH) TO NEAREST IDF/MDF. PROVIDE COMPLETE INSTALLATION INCLUDING ALL SUPPORTS ,LABELING, TERMINATIONS AND TESTING. PROVIDE THESE 20 DATA OUTLETS AS DIRECTED BY FCPS. MOST WILL BE USED TO SERVE PRINTERS AND COPIERS LOCATED THROUGHOUT BUILDING.

2. GENERAL NOTES ON THIS DRAWING SHALL APPLY TO ALL TECHNOLOGY DRAWINGS ON THIS PROJECT. CAREFULLY READ ALL GENERAL NOTES PRIOR TO COMMENCEMENT OF WORK.

3. ANY MATERIALS AND DEVICES NOT SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS OR INDICATED ON THESE CONTRACT DRAWINGS THAT ARE REQUIRED FOR A COMPLETE FINISHED AND OPERATING SYSTEM INSTALLATION SHALL BE PROVIDED BY THE CONTRACTOR AT NO ADDITIONAL COST TO OWNER.

4. WHERE THE TERM "PROVIDE" IS USED ON THESE DRAWINGS, IT SHALL BE DEFINED AS FOLLOWS: FURNISH, INSTALL AND MAKE ALL FINAL CONNECTIONS FOR THE EQUIPMENT INDICATED.

5. CABLE ROUTES ILLUSTRATED ARE DIAGRAMMATIC. EXACT ROUTING SHALL BE DETERMINED IN FIELD BY THE CONTRACTOR AND DOCUMENTED FOR FUTURE REFERENCE BY OWNER.

6. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE AND LOCAL AMENDMENTS.

7. ALL CONDUIT SHALL BE CONCEALED IN WALLS, FLOORS, ABOVE CEILING OR THROUGH MILLWORK UNLESS OTHERWISE NOTED. AT TIMES CONDUIT ROUTING IS SHOWN FOR CLARITY AND IN NO WAY PROVIDES THE CONTRACTOR ABILITY TO NOT PROVIDE CONCEALED CONDUIT AT ANY POINT NOT SHOWN IN THE DRAWINGS. REFER TO SPECIFICATIONS FOR CONDUIT & WIRING REQUIREMENTS BASED ON APPLICATION.

SECURITY GENERAL NOTES:

1. CONTRACTOR SHALL BE RESPONSIBLE TO SIZE AND PROVIDE POWER SUPPLIES FOR ALL DOORS. PROVIDE POWER SUPPLIES AS IN TELECOM ROOM, UNLESS SPECIFICALLY NOTED OTHERWISE. CONTRACTOR SHALL SUBMIT POWER SUPPLY SIZING CALCULATION WITH SHOP DRAWING SUBMITTALS.

2. CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH DIVISION 08 DOOR HARDWARE AND DOOR HARDWARE CONTRACTOR. CONTRACTOR SHALL PREPARE COORDINATION DRAWINGS AND PRODUCT DATA. CONTRACTOR SHALL ATTEND DEDICATE DOOR HARDWARE AND ACCESS CONTROL PRE-SUBMITTAL AND POST-SUBMITTAL COORDINATION MEETINGS. CONTRACTOR SHALL PREPARE AND SUBMIT CUSTOM SHOP DRAWINGS FOR ACCESS CONTROL SYSTEMS INCLUDING DOOR ELEVATIONS AND ROUGH-INS FOR EXACT PRODUCTS APPROVED AND BEING USED FOR EACH ELECTRIFIED DOOR HARDWARE SET ON THIS PROJECT. RE-USE OF ENGINEERS DRAWINGS SHALL NOT BE ACCEPTABLE.

3. CONTRACTOR SHALL COORDINATE MOUNTING LOCATION AND HEIGHT OF ALL SECURITY CAMERAS WITH FCPS SECURITY DEPT PRIOR TO ROUGH-IN IN FIELD. EXTERIOR CAMERAS SHALL BE MOUNTED MINIMUM OF 9 FT AFG AND MAXIMUM OF 15 FT AFG. EXACT HEIGHT AND LOCATION AS DIRECTED BY FCPS IN FIELD.

4. CONTRACTOR SHALL COORDINATE EXACT PLACEMENT OF INTERIOR SECURITY CAMERAS WITH FCPS PRIOR TO ROUGH-IN. CEILING MOUNTED CAMERAS SHALL BE ADJUSTED FOR OPTIMUM VIEW AND TO AVOID OBSTRUCTIONS.

5. CEILING-MOUNTED SECURITY CAMERA ENCLOSURES SHALL BE SUPPORTED FROM OVERHEAD STRUCTURE. DO NOT HANG SECURITY CAMERA ENCLOSURES FROM FINISHED CEILING.

ABBREVIATIONS:

A	AMPERE, AMPERES
AMP	AMPERE, AMPERES
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AMPERE INTERRUPTING CAPACITY
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CAP	CAPACITY
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CND	CONDUIT
COMP	COMPUTER
CTX	CONNECT TO EXISTING
DIA	DIAMETER
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ECB	ENCLOSED CIRCUIT BREAKER
EPO	EMERGENCY POWER OFF
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXIST	EXISTING
FACP	FIRE ALARM CONTROL PANEL
FLA	FULL LOAD AMPERES
FRM	FRAME
FSS	FUSED SAFETY SWITCH
GFI	GROUND FAULT INTERRUPTING
G	GROUND
GND	GROUND
HOA	HAND-OFF-AUTOMATIC
HP	HORSEPOWER
IDF	INTERMEDIATE DISTRIBUTION FRAME
IMC	INTERMEDIATE METAL CONDUIT
KCMIL	THOUSAND CIRCULAR MILS
KVA	KILOVOLT-AMPERES
KW	KILOWATT
LRA	LOCKED ROTOR AMPERES
MCA	MINIMUM CIRCUIT AMPACITY
MCB	MAIN CIRCUIT BREAKER
MCP	MOTOR CIRCUIT PROTECTOR
MDF	MAIN DISTRIBUTION FRAME
MDP	MAIN DISTRIBUTION PANEL
MFS	MAXIMUM FUSE SIZE
MH	MOUNTING HEIGHT/MANHOLE
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION
NFSS	NONFUSED SAFETY SWITCH
NIC	NOT IN CONTRACT
NO	NUMBER
OC	ON CENTER
P	POLE, POLES
Ø	PHASE
PNL	PANEL
PVC	POLYVINYL CHLORIDE
REC	RECEPTACLE
RECEPT	RECEPTACLE
RGS	RIGID GALVANIZED STEEL
RM	ROOM
RX	REMOVE EXISTING
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
TTB	TELEPHONE TERMINAL BOARD
UG	UNDERGROUND
UON	UNLESS OTHERWISE NOTED
V	VOLT, VOLTS
W	WATTS/WIRE, WIRES
WG	WIREGUARD
WP	WEATHERPROOF
XFMR	TRANSFORMER

TECHNOLOGY LEGEND:

NOTE: ALL MOUNTING HEIGHTS AND LOCATIONS OF EQUIPMENT SHALL BE COORDINATED IN THE FIELD BY THE CONTRACTOR PRIOR TO ROUGH-IN.

DATA

- ▽2 — DATA OUTLET: SUBSCRIPT DENOTES QUANTITY. M.H. 18" AFF SEE DETAILS 1 & 3/T402
- ▼2 — TELEPHONE OUTLET: SUBSCRIPT DENOTES QUANTITY. M.H. 18" AFF SEE DETAILS ON T402
- ▼A — TELEPHONE OUTLET: SUBSCRIPT DENOTES QUANTITY. M.H. 18" AFF SUBSCRIPT "A" IS ADMINISTRATIVE.
- ▽W — WALL MOUNTED TELEPHONE OUTLET. MOUNTED 42" AFF. SEE DETAIL 8/T402
- CABLE TRAY AND CLEARANCE SPACE (6" CLEAR ABOVE AND ONE SIDE) SEE DETAILS ON T403
- ▽C — CEILING MOUNTED WIRELESS ACCESS PORT; DUAL CAT6A DATA DROP SEE DETAIL 5/T402
- 1W▽WP — WALL MOUNTED WIRELESS ACCESS OUTLET - # INDICATES QUANTITY OF CAT6A DATA DROPS, WP INDICATES WEATHERPROOD EXTERIOR BOX (DETAIL ON T003). MOUNT AT 8 FT AFF OR AS NOTED.
- EQUIPMENT RACK, CABINET OR AS INDICATED
- EQUIPMENT PANEL
- (J) (J) — JUNCTION BOX; CEILING, WALL MOUNTED
- CONDUIT, CONDUIT SLEEVE - 2" EMT, UON. SEE DETAIL 2/T403 & 2/T404
- TELECOM GROUNDING BUSBAR. SEE DETAILS 4, 5, & 6/T404

SECURITY

- # — CCTV CAMERA, # INDICATES CAMERA NUMBER. SEE DETAILS ON T405. CCTV CAMERA FURNISHED BY FCPS, INSTALLED BY CONTRACTOR.
- K — SECURITY SYSTEM KEYPAD; MOUNT AT 4'-0" AFF.
- CR — CARD READER; SEE DETAIL 1/T405. SEE DIVISION 8 SPECIFICATIONS.
- (B) — DOOR BELL CHIME AND INTEGRAL LIGHT; MOUNT 84" AFF TO CENTERLINE.
- PB — DOOR BELL PUSH BUTTON; MOUNT 48" AFF TO CENTERLINE.
- DC — DOOR CONTACT, HD SUBSCRIPT "HEAVY DUTY SURFACE TYPE" CONNECT TO INTRUSION ALARM SYSTEM.
- REX — REQUEST TO EXIT (REX) MOTION DETECTOR.
- DPS — DOOR POSITION SWITCH - CONNECTED TO ACCESS CONTROL SYSTEM.
- ADO — AUTOMATIC DOOR OPERATOR - REFER TO DIV 08
- A — ACTUATOR FOR ADO - REFER TO DIV 08

MISCELLANEOUS:

- 1 — DENOTES REFERENCE TO DRAWING NOTE
- 1 — DENOTES REFERENCE TO REVISIONS TO DRAWING

CONVENTIONS:

- #/TE# — DETAIL NUMBER / DRAWING NUMBER WHERE DETAIL IS LOCATED
- #/TE## — DETAIL REFERENCE: DETAIL NUMBER/DRAWING NUMBER

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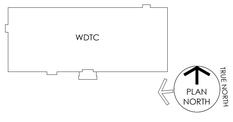
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SHEET TITLE:

SYMBOLS, LEGENDS, AND ABBREVIATIONS - TELECOM

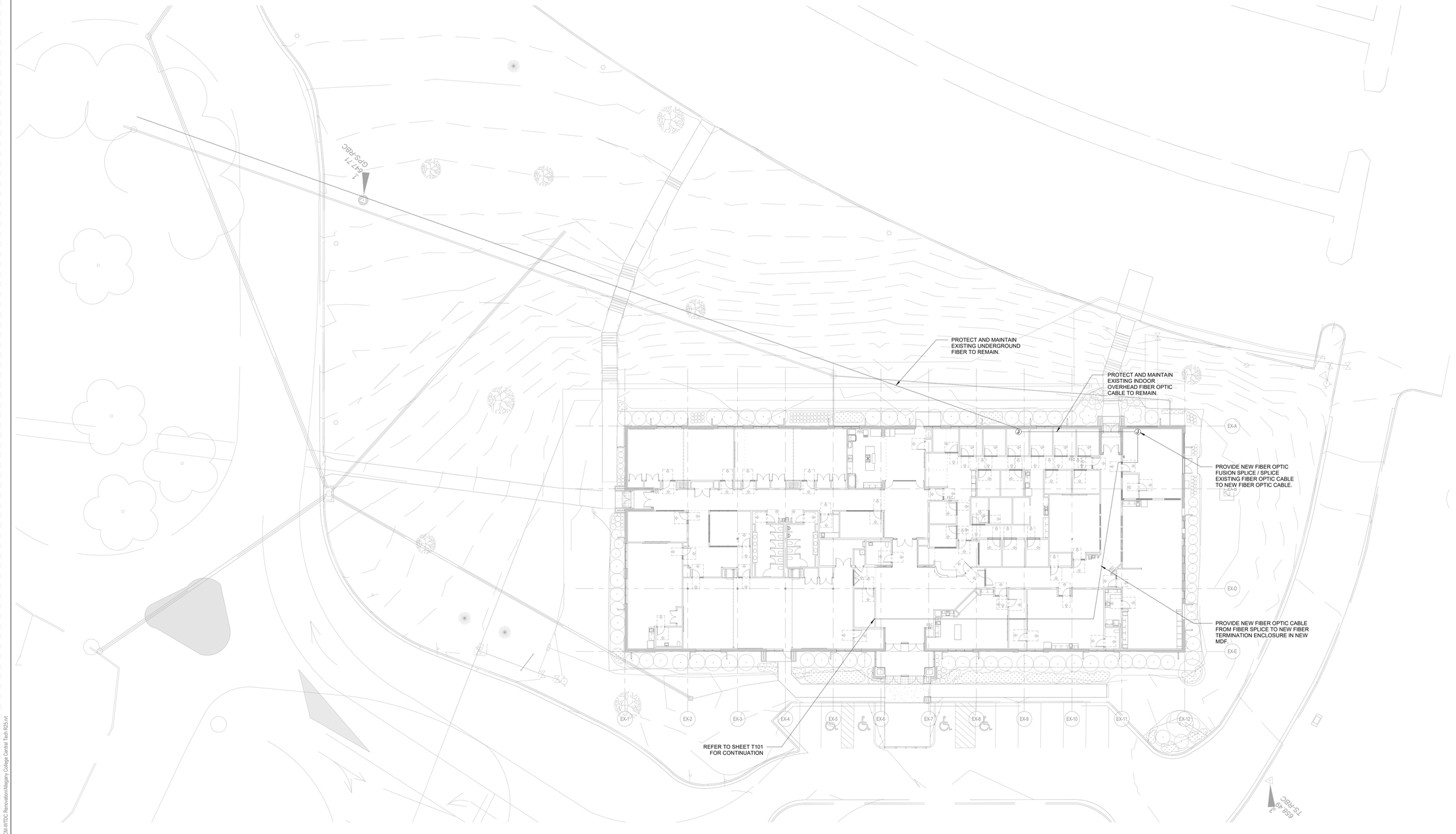
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T001

SHEET 161 OF 172

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11/3/2026 11:29:04 AM Autodesk Docs://25909 Allegany College of MD ACAA WTDC Renovation/Allegany College Central Tech R25.rvt



1 / T002 SITE PLAN
1/16" = 1'-0"

PROJECT TEAM

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FREDERICK, MD | 21701-5680
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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

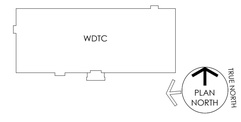
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

TELECOM SITE PLAN

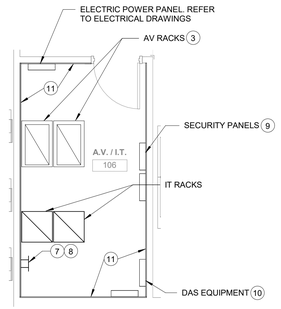
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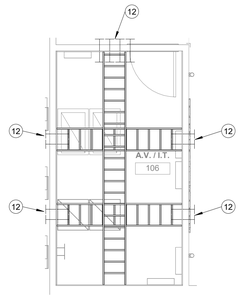
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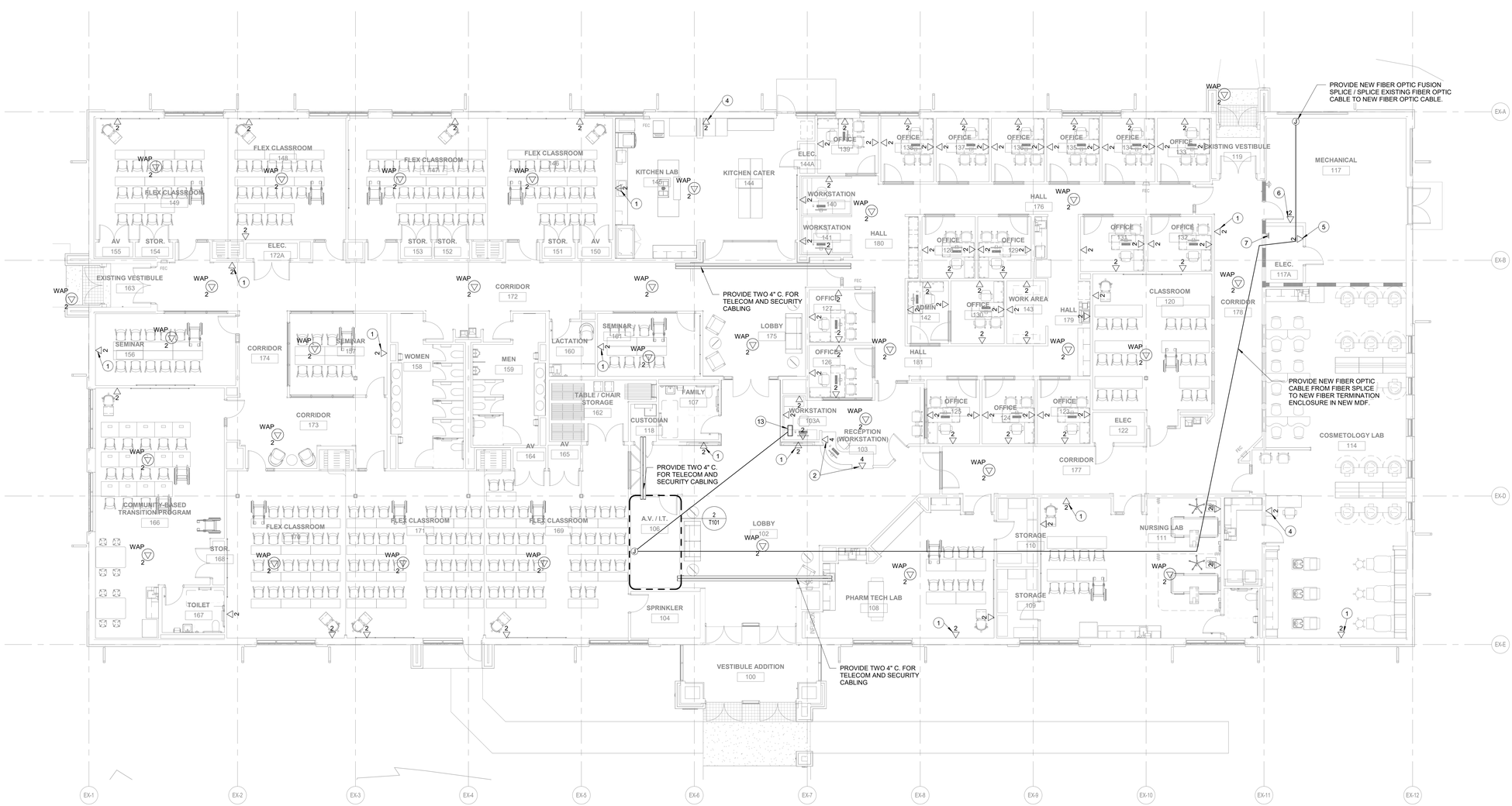
2 / T101 AV / IT 106 - FLOOR PLAN
1/4" = 1'-0"



3 / T101 AV / IT 106 - OVERHEAD PLAN
1/4" = 1'-0"

DRAWING NOTES:

1. REFER TO AUDIOVISUAL DRAWING TA501 FOR ADDITIONAL INFORMATION.
2. MOUNT ABOUT COUNTER.
3. REFER TO AUDIOVISUAL DRAWING TA401 FOR INFORMATION ON AV RACKS.
4. MOUNT BEHIND AV RACK INSIDE CABINET, ADJACENT TO POWER RECEPTACLE.
5. MOUNT AT NETWORK LIGHTING CONTROLLER. COORDINATE EXACT LOCATION IN FIELD.
6. MOUNT AT MAIN BUILDING HVAC CONTROL PANEL. COORDINATE EXACT LOCATION IN FIELD.
7. CONNECT MAIN TELECOM GROUNDING BUS BAR TO MAIN ELECTRICAL BUILDING GROUND BUS BAR.
8. PROVIDE MAIN TELECOM GROUNDING BUS BAR, REFER TO DETAILS ON SHEET T404.
9. PROVIDE SECURITY ACCESS CONTROL PANELS AND POWER SUPPLY PANELS, REFER TO DETAILS ON SHEET T405.
10. PROVIDE PUBLIC SAFETY RADIO DAS SYSTEM EQUIPMENT, REFER TO DETAILS ON SHEET T403.
11. PROVIDE 3/4" FIRE-RATED PLYWOOD BACKBOARDS ON ALL WALLS, REFER TO DETAIL 7 ON SHEET T404.
12. PROVIDE FIRE-RATED WALL SLEEVES, REFER TO DETAIL 2 ON SHEET T403.
13. PROVIDE NETWORK CONNECTION TO FIRE ALARM COMMUNICATOR. REFER TO FIRE ALARM DRAWINGS AND SPECS FOR ADDITIONAL INFORMATION



1 / T101 TELECOM PLAN - FIRST FLOOR
1/8" = 1'-0"

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PROJECT TEAM

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

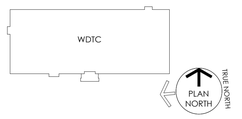
PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND

Maryland DEPARTMENT OF GENERAL SERVICES

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DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

TELECOM PLAN - FIRST FLOOR

SHEET NUMBER:

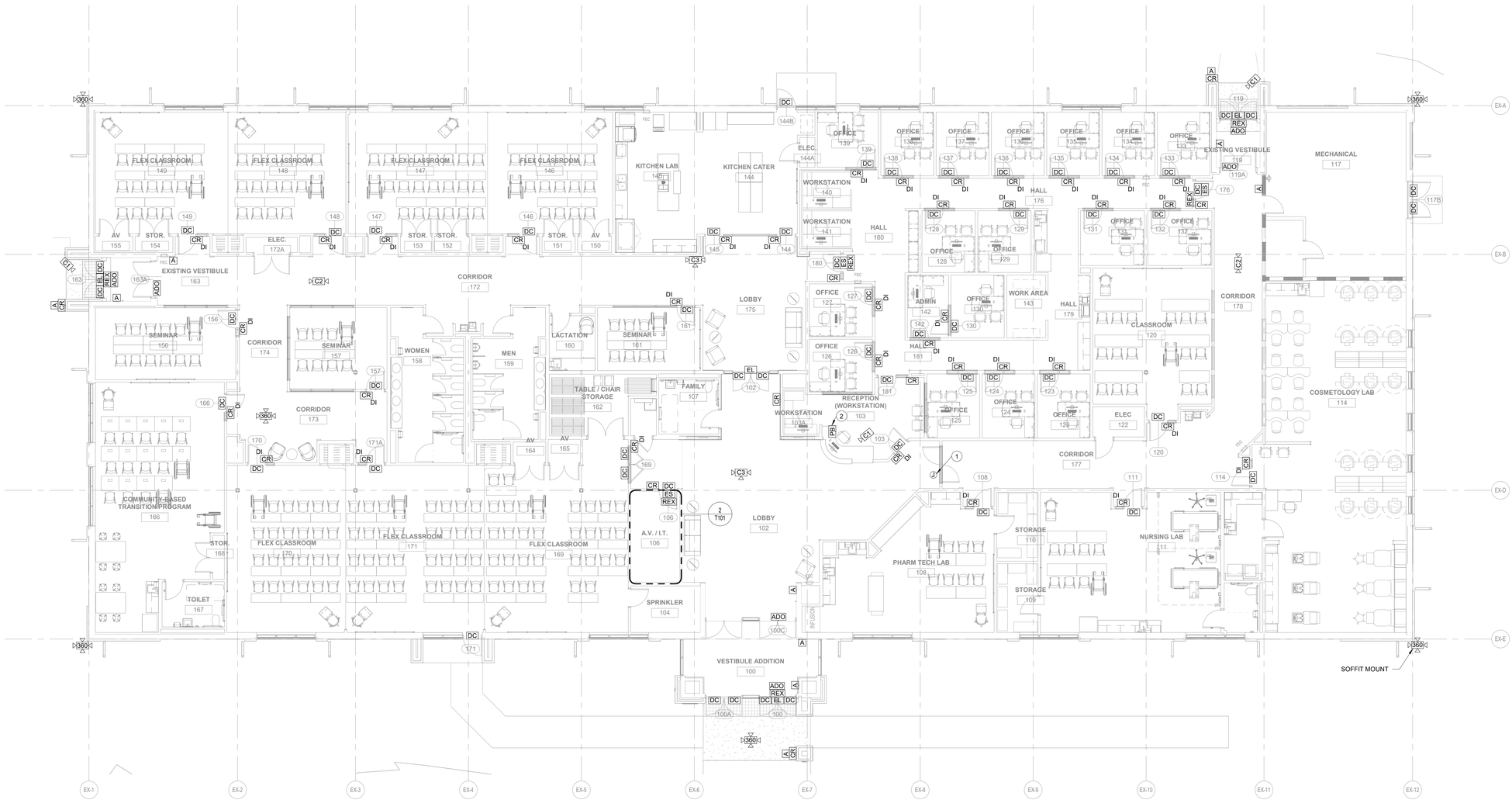
T101

SHEET 163 OF 172

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DRAWING NOTES:

1. CONNECT DOOR POWER SUPPLY TO EXIT ALARM DOOR HARDWARE
2. PROVIDE UNDERCOUNTED PANIC ALARM PUSHBUTTON. CONNECT TO ACCESS CONTROL SYSTEM. PROVIDE USB HUB2A PANIC BUTTON.



1 / T201 SECURITY PLAN - FIRST FLOOR
1/8" = 1'-0"

PROJECT TEAM

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WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

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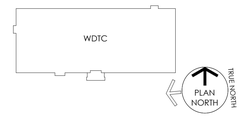
12401 WILLOWBROOK RD, SE
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

SECURITY PLAN - FIRST FLOOR

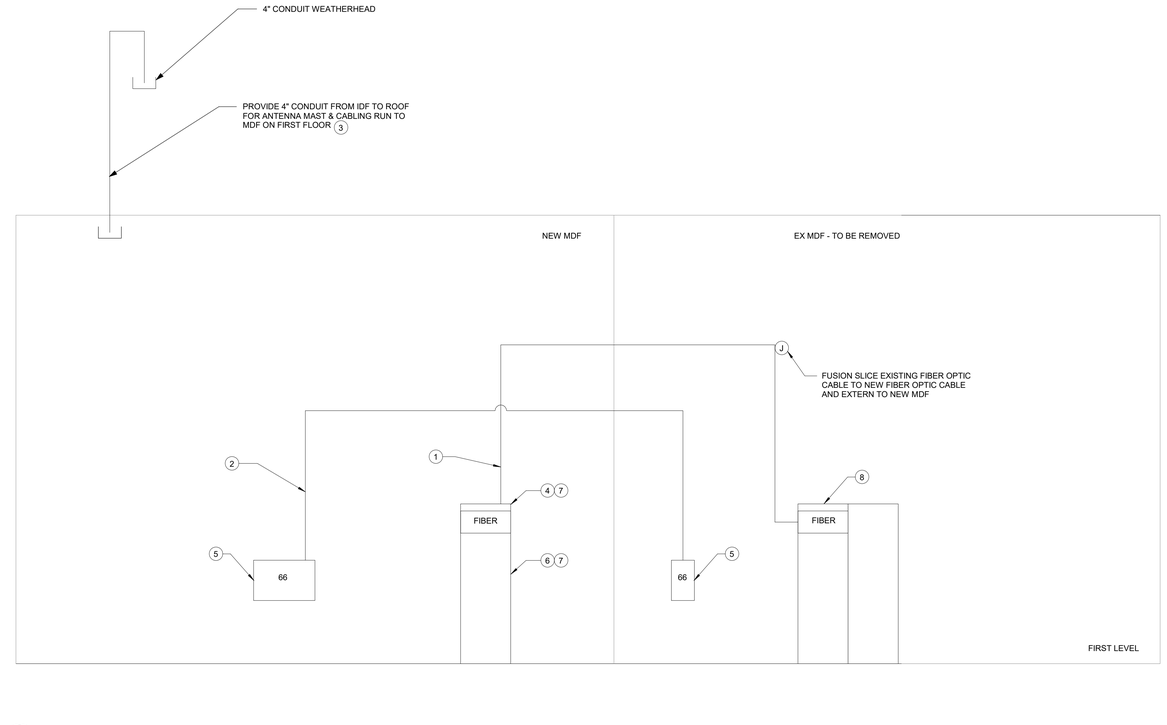
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1 / T400 TELECOM RISER
NONE

DRAWING NOTES:

1. PROVIDE 24 STRAND 50 MICRON OM4 FIBER OPTIC CABLE WITH LC CONNECTION ON BOTH SIDES BETWEEN MDF AND EACH IDF.
2. PROVIDE 100 PAIR CATEGORY 3 FOR PA BACKBONE.
3. ROOF MOUNTED ANTENNA AND ANTENNA MAST. SEE DETAIL 10 / T402 FOR ADDITIONAL INFORMATION. PROVIDE ROOF PENETRATION, CONDUIT, WEATHERHEAD AND GROUNDING PER DETAIL.
4. REFER TO DETAIL #2 ON T401 FOR ADDITIONAL INFORMATION.
5. PROVIDE 66 BLOCK PUBLIC ADDRESS TERMINATION. SEE DETAILS ON SHEET T412 AND T413
6. SEE SHEET T414 FOR ADDITIONAL INFORMATION
7. REFER TO MDF RACK ELEVATION DETAIL 2 / T401 FOR ADDITIONAL INFORMATION.
8. PROTECT AND MAINTAIN EXISTING TELECOM RACKS AND CABLING UNTIL NEW TELECOM RACK AND CABLING ARE COMPLETE AND OPERATIONAL. REMOVE ALL EXISTING TELECOM RACKS AND CABLING COMPLETELY ONCE NEW SYSTEMS ARE OPERATIONAL.

GENERAL TELECOM NOTES:

1. PROVIDE TWO PAIR CAT6 BETWEEN EACH IDF (ISOLATED ON PATCH PANEL) TO MDF (TOP OF NETWORK RACK ON DEDICATED PATCH PANEL NEAR FIBER PATCH PANEL)
2. COORDINATE EQUIPMENT INSTALLATION WITH OWNER AND OTHER TRADES AT TIME OF CONSTRUCTION.
3. EQUIPMENT SHALL BE INSTALLED WITHIN RACKS AND CABINETS OR SECURELY FASTENED TO WALL BOARD.
4. WIRING AND CABLES SHALL BE INSTALLED WITHIN PATHWAYS DEDICATED FOR LOW VOLTAGE EQUIPMENT.
5. 10' OF CABLE SLACK SHALL BE PROVIDED WITHIN THE MAIN TELECOM ROOM AND TELECOM ROOMS FOR ALL BACKBONE AND HORIZONTAL CABLES TO ALLOW FOR FUTURE CHANGES TO CABLING.
6. 3' OF CABLE SLACK SHALL BE PROVIDED IN THE CEILING AT THE STATION/DEVICE END FOR ALL HORIZONTAL CABLES TO ALLOW FOR FUTURE CHANGES TO CABLING UNLESS OTHERWISE NOTED.
7. CABLES SHALL BE NEATLY AND LOOSELY BUNDLED WITH VELCRO STRAPS. PERMANENT CABLE TIES ARE NOT ACCEPTABLE FOR BUNDLING CABLES IN TELECOM ROOMS, THROUGH CORRIDORS, OR WITHIN ROOMS.
8. WIRES SHALL NOT BE INSTALLED IN ANY PATHWAYS WITH HIGH VOLTAGE EQUIPMENT AND SEPARATION SHALL BE MAINTAINED BETWEEN LOW AND HIGH VOLTAGE CABLES.
9. COMMUNICATIONS CABLES SHALL BE RUN DIRECTLY TO ELEVATOR EQUIPMENT.
10. ANALOG COMMUNICATIONS LINES SHALL BE INCLUDED WITHIN THIS SCOPE OF WORK FOR FAX LINES, ELEVATORS, SECURITY PANELS AND OTHER SYSTEMS AND EQUIPMENT REQUIRING ANALOG CONNECTIVITY.
11. PATCH PANELS SHALL BE PROVIDED WITH 20% SPARE CAPACITY. 1' PATCH CABLES SHALL BE USED IN RACKS / CABINETS AND SHALL BE COLOR CODED BY VLAN.
    A. COORDINATE WITH OWNER FOR LENGTHS OF PATCH CABLES REQUIRED FOR THE STATION ENDS OF STRUCTURED CABLING.
12. PATCH CABLES SHALL BE PROVIDED FOR BOTH ENDS OF HORIZONTAL CABLES AND ALL FIBER JUMPER/UPLINK CABLES SHALL BE PROVIDED SO EQUIPMENT IS CONNECTED ON BOTH ENDS.
13. ALL CABLES SHALL BE PROPERLY SUPPORTED USING CABLE TRAY, LADDER RACK AND J-HOOKS. J-HOOKS SHALL BE NO FURTHER THAN 5-6 FEET APART AND MUST BE PROPERLY SIZED TO HOLD THE ANTICIPATED AMOUNT OF CABLES. EMPTY, SPARE CAPACITY SHALL BE PROVIDED.
14. INCOMING SERVICES MUST BE COORDINATED WITH THE SERVICE PROVIDERS AND OWNER.
15. PROVIDE AND INSTALL A COMPLETE DATA NETWORK INFRASTRUCTURE INCLUDING ALL CABLING, PASSIVE EQUIPMENT, TERMINATION EQUIPMENT AND ASSOCIATED COMPONENTS.
    A. OWNER SHALL SUPPLY AND INSTALL ACTIVE SWITCHING EQUIPMENT.
    B. OWNER SHALL SUPPLY AND INSTALL VOIP TELEPHONE ELECTRONICS AND HANDSETS.
16. MDF ROOM SHALL BE THE POINT OF DEMARCATION OF ALL INCOMING SERVICES.
17. ALL PORTS IN FACEPLATES SHALL BE CLEARLY LABELED WITH TYPED LABELS. HANDWRITTEN LABELS NOT ACCEPTABLE.
18. ZIP TIES ARE NOT ACCEPTABLE. VELCRO STRAPS SHALL BE USED TO SECURE CABLES.

PROJECT TEAM

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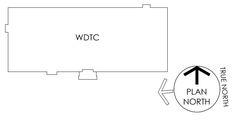
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

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CAD DWG FILE:
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CHK'D BY: NHA

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SHEET TITLE:

RISERS - TELECOM

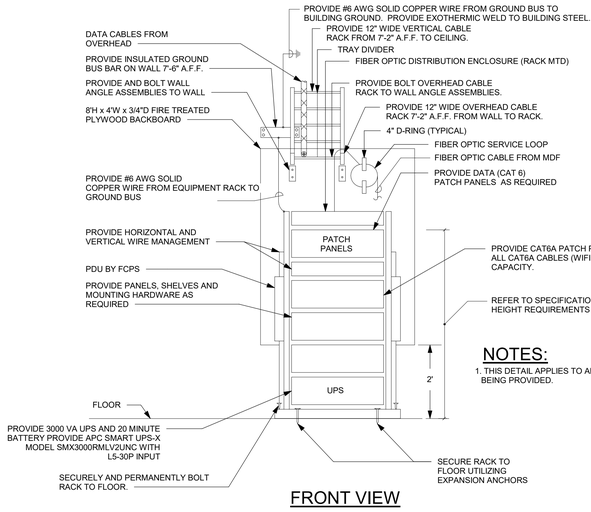
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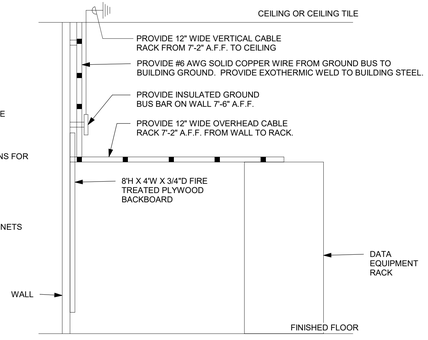
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FRONT VIEW

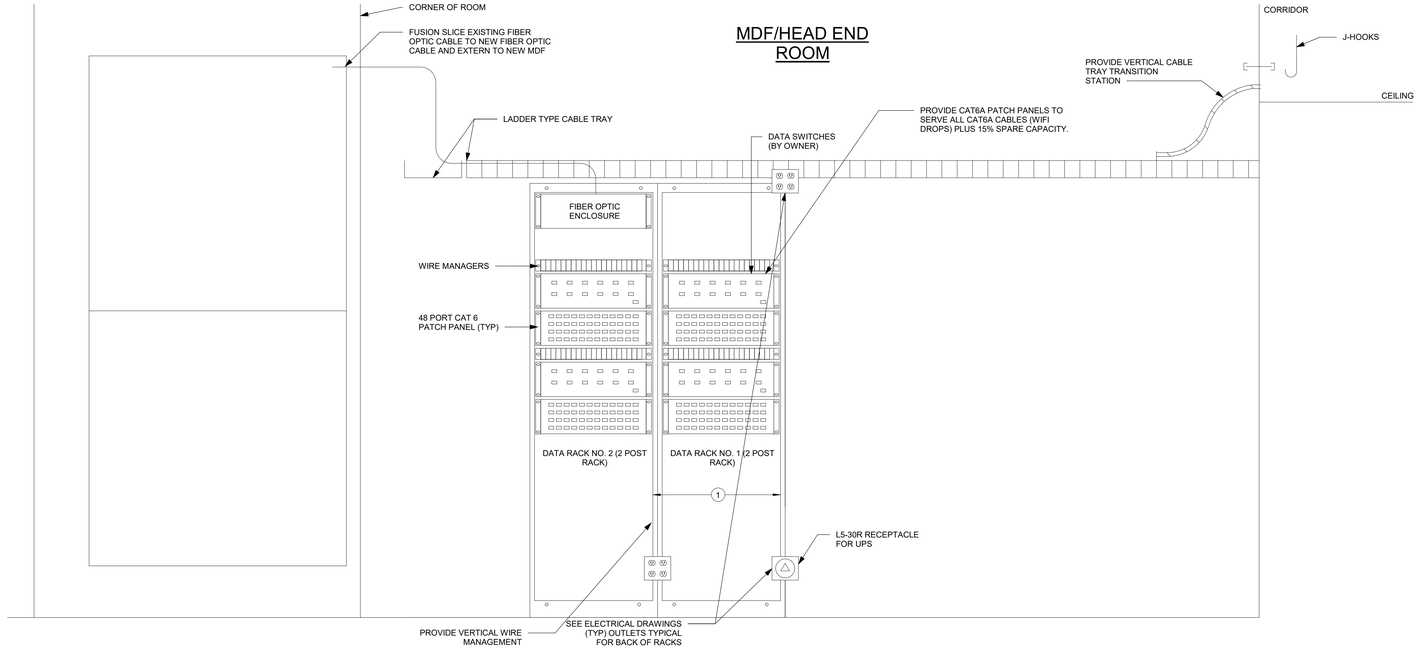
NOTES:

1. THIS DETAIL APPLIES TO ALL NEW RACKS AND CABINETS BEING PROVIDED.



SIDE VIEW

1 / T401 EQUIPMENT RACK DETAIL
N.T.S.



2 / T401 MDF RACK ELEVATIONS
N.T.S.

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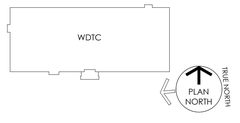
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DETAILS - TELECOM

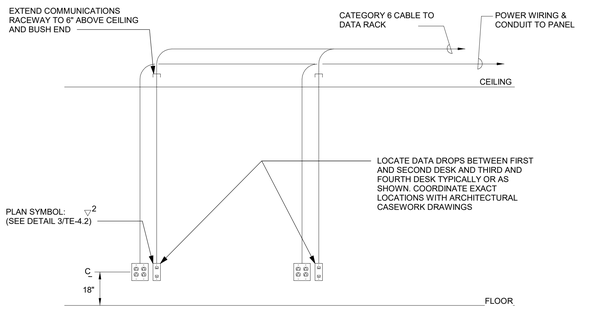
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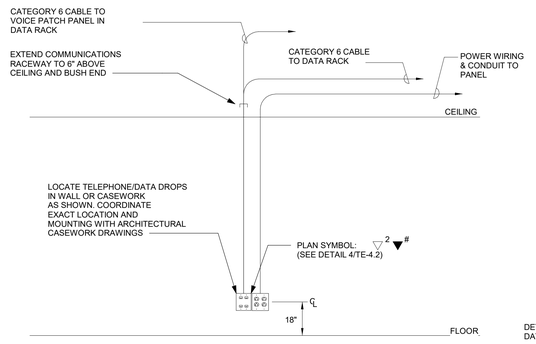
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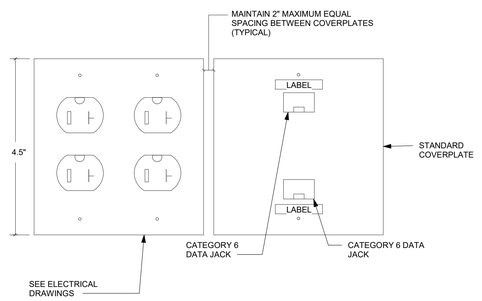
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1 T402 TYPICAL DATA DROP
N.T.S.



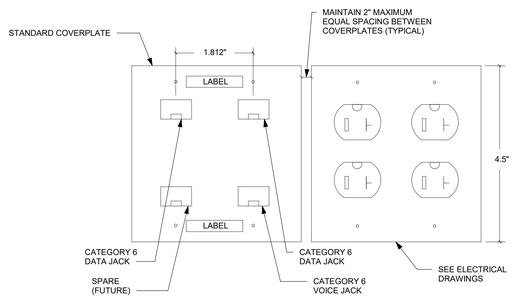
2 T402 TYPICAL TELEPHONE/DATA DROP
N.T.S.



PLAN SYMBOL:

DETAIL REPRESENTS TYPICAL TWO COMBINED DATA DROPS FOR CLASSROOMS. SEE DETAIL 1/TE-4.2. NUMBER INDICATE QUANTITY OF DATA JACKS AND CABLES

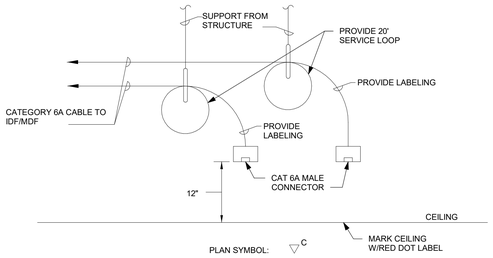
3 T402 DATA DROP DETAIL
N.T.S.



PLAN SYMBOL:

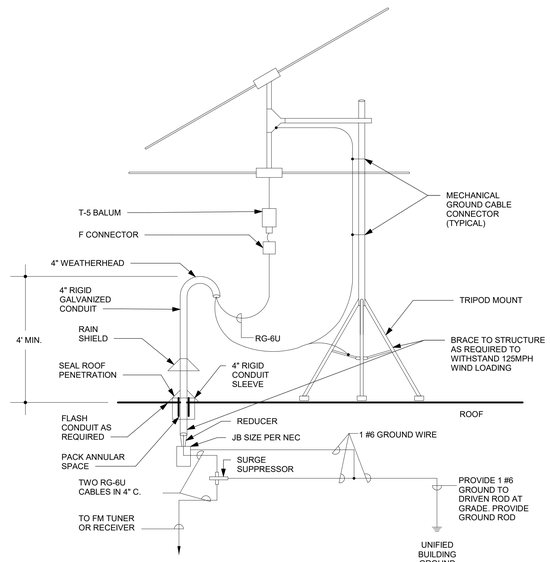
DETAIL REPRESENTS TYPICAL TELEPHONE/DATA DROP. SEE DETAIL 2/TE-4.2.

4 T402 TELEPHONE/DATA DETAIL
N.T.S.



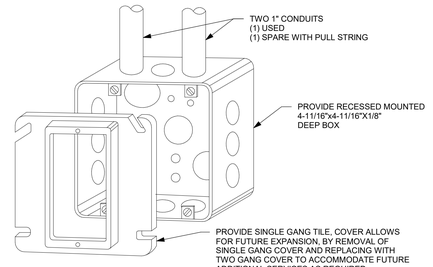
NOTE:
FINAL LOCATION OF EACH WIRELESS PORT TO BE DETERMINED BY FINAL HEAT MAP BY WI-FI VENDOR. CONTRACTOR TO ADJUST LOCATIONS OF EACH CEILING MOUNTED WIRELESS ACCESS PORT ACCORDINGLY. PROVIDE CAT6A PATCH PANELS IN TELECOM RACKS IN EACH TELECOM ROOM TO SERVE ALL CAT6A CABLES PLUS 15% SPARE CAPACITY.

5 T402 WIRELESS ACCESS CONNECTION DETAIL
N.T.S.

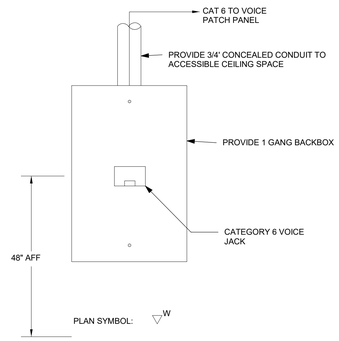


CONTRACTOR SHALL SUBMIT A ROOF PENETRATION DETAIL TO OWNER FOR APPROVAL PRIOR TO INSTALLATION

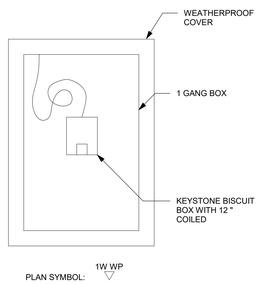
6 T402 FM (DIPOLE) ANTENNA MOUNTING DETAIL
N.T.S.



7 T402 COMMUNICATIONS OUTLET DETAIL
N.T.S.



8 T402 WALL MOUNTED TELEPHONE OUTLET
N.T.S.



NOTE:
CONTRACTOR SHALL COORDINATE MOUNTING LOCATION AND HEIGHT OF ALL EXTERIOR WIFI OUTLETS WITH FCPS PRIOR TO ROUGH IN IN FIELD. EXTERIOR WIFI OUTLETS SHALL BE MOUNTED MINIMUM OF 8FT AFG. EXACT HEIGHT AND LOCATION AS DIRECTED BY FCPS IN FIELD.

9 T402 EXTERIOR WIFI DETAIL
N.T.S.

PROJECT TEAM

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P: 410.296.6500

Wright Engineering, LLC
Data / Communications
853 Ripple Stream Court
Joppa, MD|21085
P: 410.877.6297 | F: 866.635.0374

The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

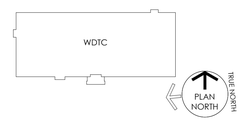
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	09/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS - TELECOM

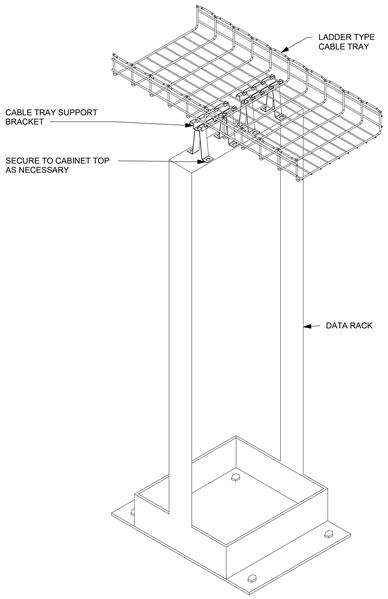
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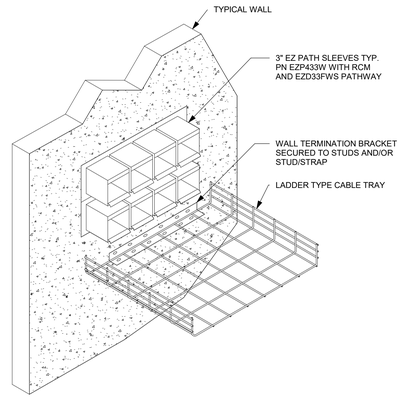
SHEET 167 OF 172

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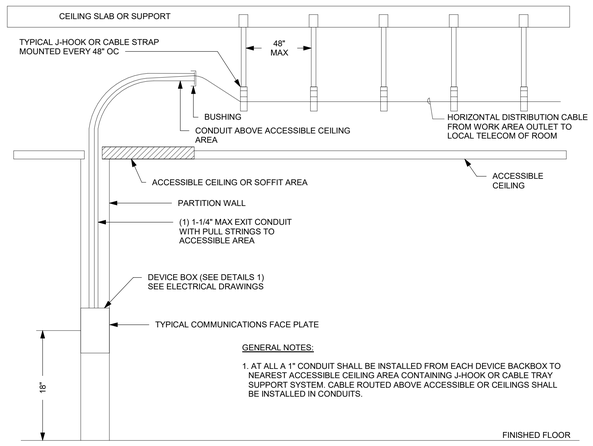
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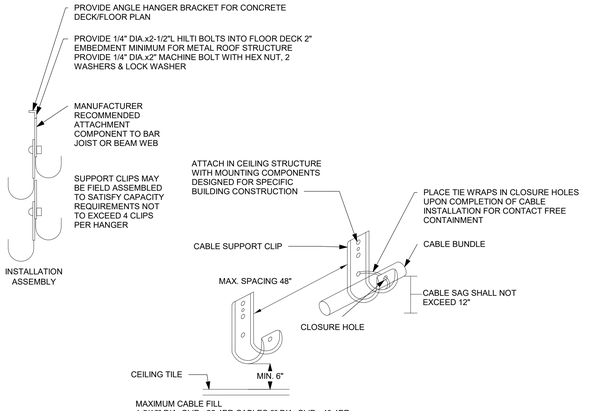
1 / T403 CABLE TRAY OVER RACK DETAIL
N.T.S.



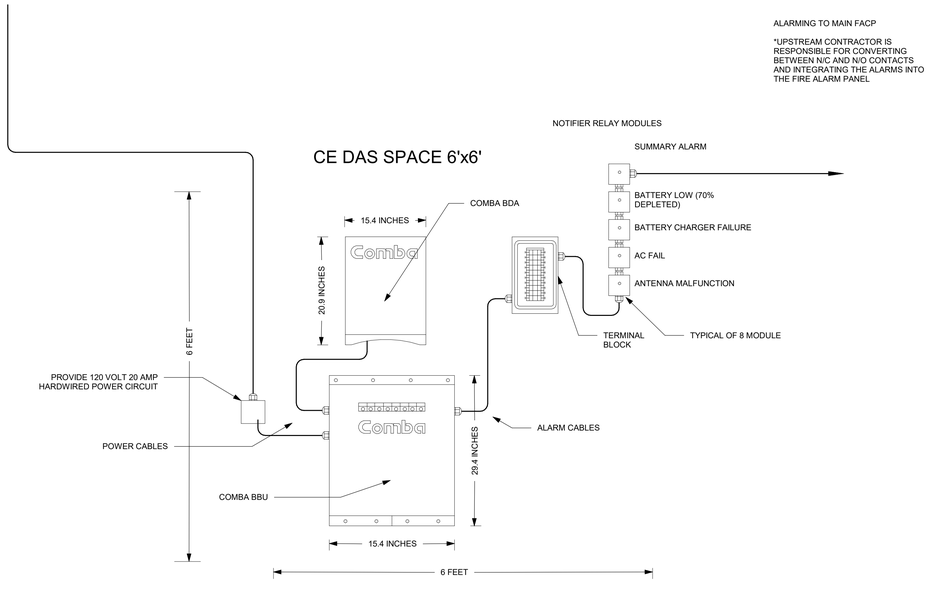
2 / T403 RUNWAY WALL SUPPORT AND DROP-OUT
N.T.S.



3 / T403 TYPICAL WALL MOUNTED OUTLET DEVICE BOX
N.T.S.



4 / T403 HOOK CABLE SUPPORT
N.T.S.



5 / T403 NFPA ALARM MONITORING DIAGRAM - PUBLIC SAFETY RADIO DAS SYSTEM
N.T.S.

REFER TO SPEC SECTION 277000 . CONTRACTOR SHALL PROVIDE THE SERVICES FOR A RADIO SIGNAL SURVEY UNDER BASE BID . IF A PUBLIC SAFETY DAS SYSTEM IF REQUIRED THE OWNER WILL PROVIDE DIRECTION . THIS DETAIL IS SHOWING THE REQUIREMENTS FOR THE PROVISIONS FOR A FUTURE PUBLIC SAFETY DAS SYSTEM (NIC)

PROJECT TEAM

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License # _____, Expiration Date ___/___/_____

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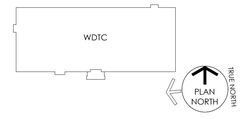
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DETAILS - TELECOM

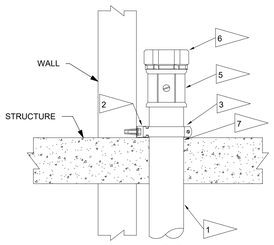
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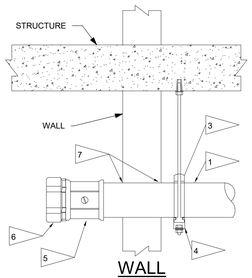
SHEET 168 OF 172

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FLOOR PENETRATION



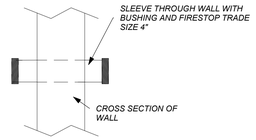
WALL PENETRATION

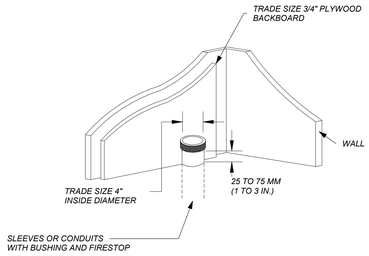
KEYNOTES:

1. EMT CONDUIT, USE COMPRESSION COUPLINGS AND FITTINGS UNLESS OTHERWISE NOTED.
2. 1-1/2"x1-1/2" 12 GA. KINDORF CHANNEL - ANCHOR SECURELY TO WALL.
3. EMT STRAPS (KINDORF #C-105-4).
4. KINDORF CHANNEL AND STRAP SUPPORT - ANCHOR SECURELY TO DECK ABOVE.
5. DIE CAST SET SCREW CONNECTOR (RACO #2646). FOR ALL CONDUIT SMALLER THAN 4", USE COMPRESSION CONNECTOR.
6. PLASTIC INSULATION BUSHING (RACO #1416). INSTALL INSULATING, BONDING AND GROUNDING BUSHING AT CLOSET END OF CONDUIT.
7. FIRESTOP AS REQUIRED BY FIRE CODE.

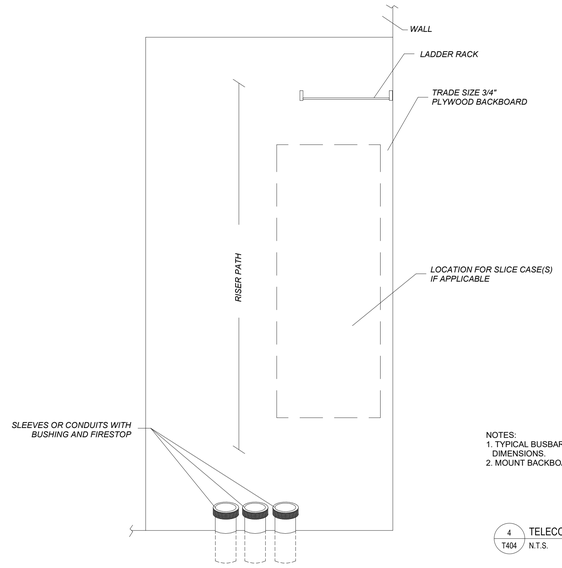
GENERAL NOTES:

1. PENETRATE TELECOMMUNICATIONS ROOM 4" TO 8" MAXIMUM.
2. SIMILAR FOR ALL SIZE EMT CONDUITS.

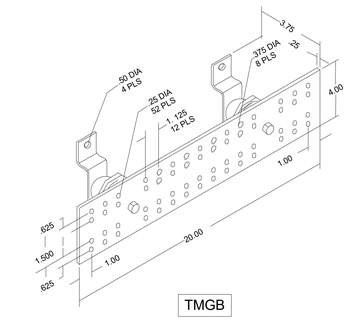




2 T404 SLEEVE/CONDUIT DETAILS
N.T.S.



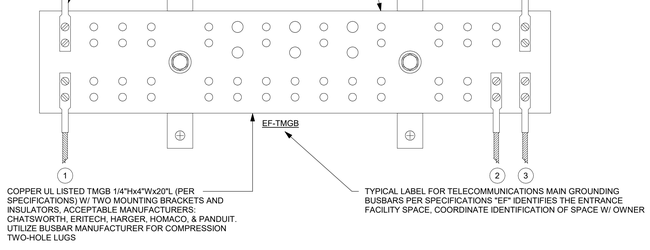
3 T404 RISER BACKBOARD ELEVATION
N.T.S.



NOTES:
1. TYPICAL BUSBARS, INSULATORS AND BACKBOARD MOUNT BRACKETS SHOWN HERE REFLECT TIA STANDARDS-COMPLIANT DIMENSIONS.
2. MOUNT BACKBOARD-MOUNTED BUSBARS @ 6'6" A-F UNLESS DIRECTED OTHERWISE BY OWNER

4 T404 TELECOMMUNICATIONS GROUND BARS DETAIL
N.T.S.

1 T404 RISER CONDUIT END FITTINGS DETAIL
N.T.S.



5 T404 TELECOM MAIN GROUNDING BUSBAR DETAIL
N.T.S.

TELECOM MAIN GROUNDING BUSBAR DETAIL NOTES:

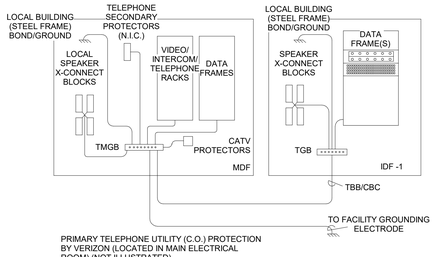
1. BONDING CONDUCTOR FOR TELECOMMUNICATIONS (BCT) TO BUILDING GROUNDING ELECTRODE. REFER TO RISER DIAGRAM.
2. BCT TO NEAREST BUILDING STEEL STRUCTURE, IF APPLICABLE. UTILIZE EXOTHERMIC WELDING CONNECTION TO BUILDING STEEL.
3. BCT TO NEAREST BUILDING ELECTRICAL PANELBOARD GROUNDING BAR. UTILIZE LISTED CONNECTOR TO PANELBOARD GROUNDING BUS.
4. BCT TO TELECOMMUNICATIONS JUNCTION BOXES AND APPLICABLE EQUIPMENT. DAISY CHAINING OF BCT AT RELAYS IS NOT ACCEPTABLE. EACH DEVICE IS TO HAVE A DEDICATED HOMERUN BCT BACK TO THE TMGB, SEE DETAILS.

BONDING CONDUCTOR SIZING CHART

LENGTH (FEET)	SIZE (AWG)
LESS THAN (<) 13'	#6
14'-20'	#4
21'-26'	#3
27'-33'	#2
34'-41'	#1
42'-52'	#1/0
53'-66'	#2/0
GREATER THAN (>) 66'	#3/0

GROUNDING & BONDING RISER GENERAL NOTES:

1. REFER TO GROUNDING AND BONDING IN SPECIFICATIONS FOR ADDITIONAL INFORMATION.
2. REFER TO GROUNDING AND BONDING RISER DIAGRAM FOR ADDITIONAL INFORMATION.
3. BONDING CONDUCTORS SHALL BE #3/0 AWG COLOR GREEN INSULATED COPPER CONDUCTOR OR SIZED PER "BONDING CONDUCTOR SIZING CHART" (ANSI J-STD-607-A) IN PATHWAY.
4. FASTENING BONDING CONNECTOR TWO-HOLE LUGS TO ALL BUSBARS SHALL BE CLEANED AND APPLY A COPPER ANTI-OXIDANT TO THE CONTACT AREA OF BOTH THE COPPER LUG AND THE BUSBAR.
5. BONDING CONDUCTORS AND BUSBARS SHALL BE LABELED WITH IDENTIFICATION IN ACCORDANCE WITH THE REQUIREMENTS OF ANSI.TIA/EIA-606-A.
6. BONDING CONDUCTORS SHALL BE LABELED W/ IDENTIFICATION LABEL NOTED BELOW AND SECURED WITH CABLE TIE TO EACH CONDUCTOR. (ANSI J-STD-60-A) ID LABEL: "IF THIS CONDUCTOR OR CABLE IS LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER.
7. CONTINUITY TESTING MEASUREMENTS OF THE GROUNDING RESISTANCE TO NOT EXCEED 0.1 OHM BETWEEN:
   A. THE TMGB AND THE NEAREST GROUNDING ELECTRODE.
   B. THE TMGB AND ALL APPLICABLE EQUIPMENT.

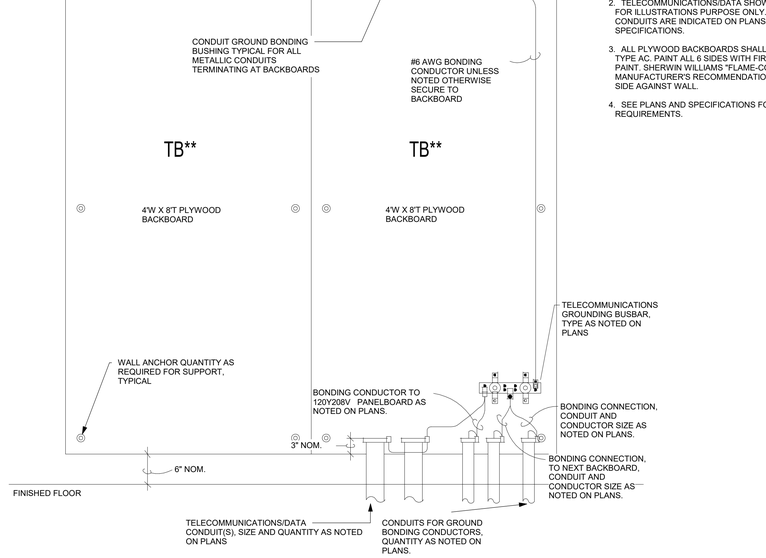


PRIMARY TELEPHONE UTILITY (C.O.) PROTECTION BY VERIZON (LOCATED IN MAIN ELECTRICAL ROOM) (NOT ILLUSTRATED)
LOUDSPEAKER CIRCUIT SHIELDS ARE GROUNDED AT TGB'S OR TMGB RESPECTIVELY
CAFETERIA/GYMNASIUM & MISC. SOUND SYSTEM CABINETS ARE LOCALLY GROUNDED VIA AC POWER SYSTEM (NOT ILLUSTRATED)

TGB = TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB = TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TBB = TELECOMMUNICATIONS BONDING BACKBONE
ALL BONDING CABLE IS #6AWG STRANDED COPPER

INNERCLOSET BONDING CABLE STRAPPED TO INTERCOM BACKBONE CABLE AS A COUPLED BONDING CONDUCTOR (CBC)

6 T404 TELECOMMUNICATIONS GROUNDING AND BONDING SYSTEM DIAGRAM
N.T.S.



DETAIL NOTES:

1. DETAIL TYPICAL FOR ALL TELECOMMUNICATIONS/DATA BACKBOARDS. UNLESS NOTED OTHERWISE.
2. TELECOMMUNICATIONS/DATA SHOWN ARE FOR ILLUSTRATIONS PURPOSE ONLY. PROVIDE CONDUITS ARE INDICATED ON PLANS AND WITHIN SPECIFICATIONS.
3. ALL PLYWOOD BACKBOARDS SHALL BE 3/4" THICK TYPE AC. PAINT ALL 6 SIDES WITH FIRE RETARDANT PAINT. SHERWIN WILLIAMS "FLAME-CONTROL". PER MANUFACTURER'S RECOMMENDATIONS. MOUNT "C" SIDE AGAINST WALL.
4. SEE PLANS AND SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

7 T404 TELECOMMUNICATIONS/DATA BACKBOARD DETAIL
N.T.S.

PROJECT TEAM

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Signature _____ Date _____
License # _____, Expiration Date ___/___/___

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PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

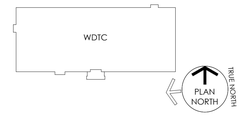
12401 WILLOWBROOK RD, SE CUMBERLAND, MD 21501

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Maryland DEPARTMENT OF GENERAL SERVICES

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DETAILS - TELECOM

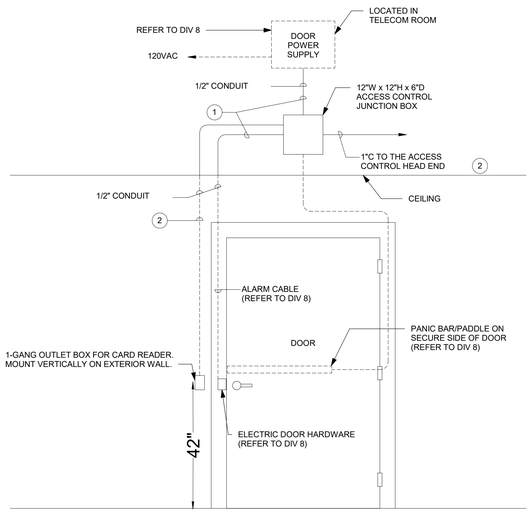
SHEET NUMBER:

T404

SHEET 169 OF 172

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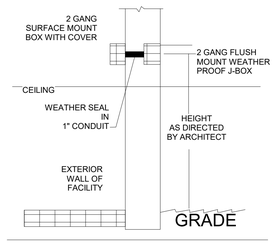
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ACCESS CONTROL SYSTEM CARD READER DETAIL DRAWING NOTES:

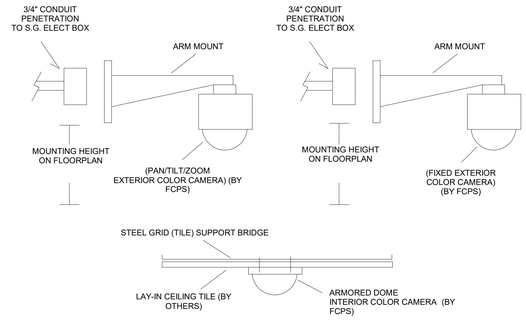
1. LOCK POWER: ONE 4 CONDUCTOR #18 AWG STRANDED.
2. CARD READER: ONE 6 CONDUCTOR #18 AWG TWISTED SHIELDED PAIR.

1 / T405 ACCESS CONTROL SYSTEM CARD READER DETAIL
N.T.S.



SYMBOL

2 / T405 EXTERIOR SECURITY CAMERA
N.T.S.

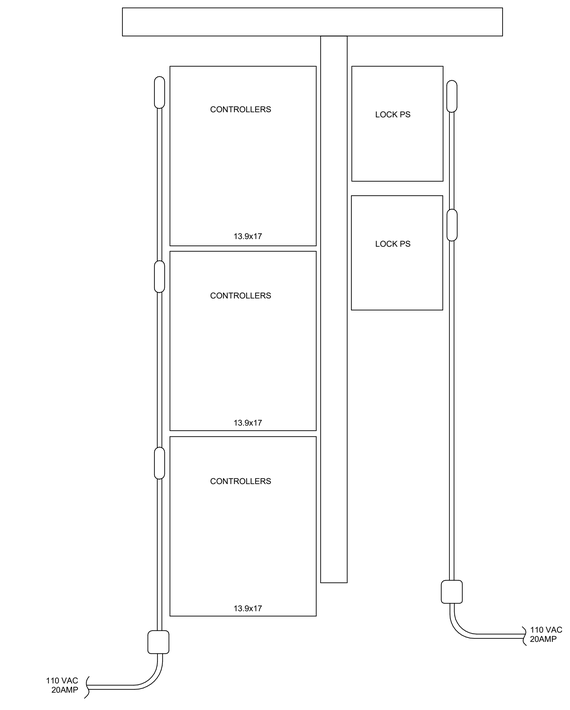


CCTV CAMERA GENERAL NOTES:

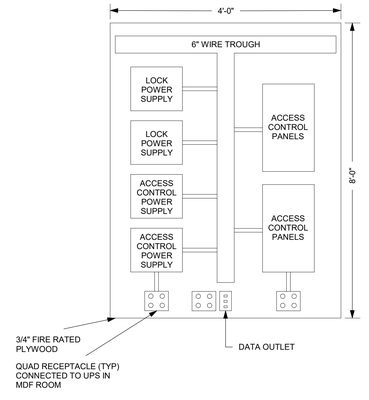
1. CAMERA'S AND MOUNTS FURNISHED BY FCPS AND INSTALLED BY CONTRACTOR.

PLAN SYMBOL: # CEILING MOUNTED
WALL MOUNTED

3 / T405 TYP. CCTV CAMERA MOUNTING DETAILS
N.T.S.



4 / T405 TYPICAL PANEL ELEVATION
N.T.S.



NOTE: 1/2" LABEL ON ALL EQUIPMENT

5 / T405 SECURITY EQUIPMENT ELEVATION
N.T.S.

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	50% CONSTRUCTION DOCUMENTS	06/26/2026
	95% CONSTRUCTION DOCUMENTS	08/14/2026
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS - SECURITY

SHEET NUMBER:

T405

SHEET 170 OF 172

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AC ID	Plan Ref.	Location / Opening	Design Status	Reader / Lock Type	Reader / Lock Basis	Locking Hardware	Door Position	Request-to-Exit	Emergency Release	Interface	Genetec License	Coordination Notes
AC-01	163	Existing Vestibule 163 - west exterior entrance	PLAN SHOWN	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electric locking / maglock as coordinated	GRI 180-12-W	Bosch DS150iTP160 / hardware REX	Dortronics WS286 where maglock	Mercury	GSC-SY-E-1R	Exterior entrance; coordinate double-door hardware and fire alarm release.
AC-02	149	Flex Classroom 149	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Final lock function and power/network method by Div. 08.
AC-03	148	Flex Classroom 148	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Final lock function and power/network method by Div. 08.
AC-04	147	Flex Classroom 147	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Final lock function and power/network method by Div. 08.
AC-05	146	Flex Classroom 146	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Final lock function and power/network method by Div. 08.
AC-06	156	Seminar 156	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate handing and classroom security function.
AC-07	166	Community Based Transition Program 166	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-08	157	Seminar 157	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate handing and classroom security function.
AC-09	170	Flex Classroom 170	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-10	171A	Flex Classroom 171 - north access-controlled opening	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	South exterior opening shown with door contact only; this row is north reader opening.
AC-11	169	Flex Classroom 169	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-12	106	A.V. / I.T. 106	PLAN SHOWN	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electrified lock by Div. 08	GRI 180-12-W	Hardware REX or Bosch where required	N/A unless maglock	Mercury	GSC-SY-E-1R	Telecom/IT room: hardwired HID reader per narrative scope.
AC-13	161	Seminar 161	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-14	139	Office 139	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-15	138	Office 138	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-16	137	Office 137	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-17	136	Office 136	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-18	135	Office 135	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-19	134	Office 134	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-20	133	Office 133	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-21	128	Office 128	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-22	129	Office 129	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-23	131	Office 131	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-24	132	Office 132	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-25	180	Secure opening at Hall 180 / Lobby 175 office wing	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock or hardwired reader per Div. 08	Electrified lock / maglock if scheduled	Door status required	REX required	Emergency release if maglock	IP via CloudLink / Mercury if hardwired	GSC-SY-E-1WR*	Plan shows CR with door-security devices; final hardware set controls system type.
AC-26	127-A	Office 127 - north opening	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Two controlled openings appear associated with Office 127; verify door numbers.
AC-27	127-B	Office 127 - east opening	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Verify exact architectural door designation.
AC-28	126	Office 126 - east opening	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Verify exact architectural door designation.
AC-29	142	Admin 142	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-30	130	Office 130	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-31	181	Secure opening at Hall 181 / Reception office wing	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock or hardwired reader per Div. 08	Electrified lock / maglock if scheduled	Door status required	REX required	Emergency release if maglock	IP via CloudLink / Mercury if hardwired	GSC-SY-E-1WR*	Plan shows CR/DC at secure office-wing opening.
AC-32	125	Office 125	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-33	124	Office 124	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-34	123	Office 123	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-35	103	Reception 103 - secure opening	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock or hardwired reader per Div. 08	Electrified lockset	Door status required	REX required	N/A unless maglock	IP via CloudLink / Mercury if hardwired	GSC-SY-E-1WR*	Coordinate with reception millwork/partition and door hardware.
AC-36	108	Pharmacy Technology Lab 108	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-37	120	Classroom 120	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-38	111	Nursing Lab 111	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-39	114	Cosmetology Lab 114	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock; final series by Div. 08	Integrated lockset	Integrated / lock status	Integrated	N/A	IP via CloudLink	GSC-SY-E-1WR*	Coordinate with Division 08.
AC-40	176	Secure opening at Hall 176 adjacent Existing Vestibule 119	PLAN SHOWN	Door-mounted IP lock	SARGENT / ASSA ABLOY IP-enabled lock or hardwired reader per Div. 08	Electrified lock / maglock if scheduled	Door status required	REX required	Emergency release if maglock	IP via CloudLink / Mercury if hardwired	GSC-SY-E-1WR*	Plan shows CR/REX/DC/ES cluster; final door hardware to confirm.
AC-41	119	Existing Vestibule 119 - exterior entrance	PLAN SHOWN	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electric locking / maglock as coordinated	GRI 180-12-W	Bosch DS150iTP160 / hardware REX	Dortronics WS286 where maglock	Mercury	GSC-SY-E-1R	Exterior entrance; coordinate double-door hardware and fire alarm release.
AC-42	100	Vestibule Addition 100 - south exterior entrance	PLAN SHOWN	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electric locking / maglock as coordinated	GRI 180-12-W	Bosch DS150iTP160 / hardware REX	Dortronics WS286 where maglock	Mercury	GSC-SY-E-1R	Exterior entrance; plan shows REX/EL/DC and CR.
AC-43	117	Mechanical 117	SCOPE REQUIRED - VERIFY/ADD	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electrified lock by Div. 08	GRI 180-12-W	Hardware REX	N/A unless maglock	Mercury	GSC-SY-E-1R	Narrative requires selected mechanical rooms; reader not clearly shown on current plan.
AC-44	122	Electrical 122	SCOPE REQUIRED - VERIFY/ADD	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electrified lock by Div. 08	GRI 180-12-W	Hardware REX	N/A unless maglock	Mercury	GSC-SY-E-1R	Narrative requires selected electrical rooms; reader not clearly shown on current plan.
AC-45	144A	Electrical 144A	SCOPE REQUIRED - VERIFY/ADD	Hardwired HID	HID Signo 40 / SY-40NKS-T0-000000	Electrified lock by Div. 08	GRI 180-12-W	Hardware REX	N/A unless maglock	Mercury	GSC-SY-E-1R	Narrative requires selected electrical rooms; reader not clearly shown on current plan.

1 T406 ACCESS CONTROL SCHEDULE

N.T.S.

DESIGN NOTES / OPEN ITEMS

1. Design-development schedule interprets 42 plan-shown reader openings from the 9/10/26 security plan. Final architectural door numbers and exact reader locations remain subject to Owner and Division 08 coordination.

2. Mechanical 117, Electrical 122, and Electrical 144A are shown as VERIFY/ADD because the narrative specifically requires selected mechanical/electrical rooms and the current plan does not clearly show reader symbols at those doors.

3. Applying the narrative yields seven hardwired HID reader locations. The midpoint quote includes only three HID readers and a four-reader single-voltage Genetec/LifeSafety Power enclosure. The design basis therefore uses the dual-voltage SY-DV8RD-E4M1-P 8-reader+I/O enclosure, with capacity for four Mercury boards plus CloudLink/I/O and one spare hardwired reader port.

4. The remaining 38 interior controlled openings use SARGENT/ASSA ABLOY IP-enabled integrated reader/locks as the DD basis. Division 08 must finalize lock family, function, finish, handing, fire rating, keying, and network/power method.

5. Reconcile the Owner's existing Genetec Security Center/Synergis license before procurement. Use GSC-SY-E-1R for external hardwired readers when required and GSC-SY-E-1WR for supported wireless/PoE locksets when purchased with the lock; if the lock is sourced outside Genetec, use GSC-SY-E-1R. Provide matching five-year Advantage coverage.

6. Magnetic locks, emergency-release buttons, PIR REX, door contacts, and relays from the midpoint quote are allowances only. Final quantities and locations must follow Division 08 hardware sets, adopted egress code, fire-alarm interface, and approved shop drawings.

2 T406 ACS DESIGN NOTES

N.T.S.

ACCESS CONTROL HEAD-END & LICENSE SIZING - DESIGN DEVELOPMENT BASIS

Parameter	Formula / Basis	Design Result	Engineering Note
Plan-shown reader openings	Security-plan interpreted CR openings	42	Current plan basis.
Scope-required utility openings	Narrative requires selected mechanical/electrical rooms	3	Verify/add on final plan.
Total DD reader openings	Plan shown + scope required	45	Final quantity to match approved door schedule.
Hardwired HID reader openings	Exterior entries + A/V-I/T + utility rooms	7	Mercury/LifeSafety Power head-end.
SARGENT / ASSA ABLOY IP-lock openings	Remaining interior openings	38	Final supported series by Division 08.
Mercury design capacity	MP1502 + three MR52 interfaces	8	Eight hardwired reader ports.
Recommended enclosure	Genetec / LifeSafety Power dual-voltage 8-reader+I/O enclosure	SY-DV8RD-E4M1-P	12/24 VDC, 8-reader basis; E4M1 enclosure provides mounting capacity for four Mercury boards, CloudLink and I/O.
Mercury intelligent controller	SY-MP-1502	1	Two onboard reader ports.
Mercury dual-reader interfaces	SY-MR-52, Series 3/current equivalent	3	Six downstream reader ports.
Synergis Cloud Link	SY-CLOUDLINK-G2	1	Integrates Mercury and supported ASSA ABLOY IP locks.
External reader connections	One per hardwired HID reader when not factory-bundled	7	GSC-SY-E-1R; provide net quantity after reconciling documented bundled/existing entitlements.
Wireless / PoE lock connections	One per supported SARGENT/ASSA ABLOY IP lock when purchased with lock	38	GSC-SY-E-1WR; if lock is sourced outside Genetec, use GSC-SY-E-1R per current ordering guidance.
Genetec Advantage - 5 years	One per net new licensed Enterprise reader/lock	45	ADV-RDR-E-5Y design basis; final quantity equals final licensed reader/lock count.
Hardwired spare capacity	Mercury capacity minus hardwired readers	1	Minimum one spare at current DD count.

3 T406 HEAD END SIZING

N.T.S.

Item	Manufacturer	Model / Part Number	Design Qty.	Midpoint Quote Qty.	Purpose / Notes
Genetec/LifeSafety Power 8-reader+I/O enclosure	Genetec / LifeSafety Power	SY-DV8RD-E4M1-P	1	N/A	Dual-voltage 12/24 VDC, 150 W class, 8 auxiliary and 8 lock outputs; E4M1 enclosure sized for four Mercury boards, CloudLink and I/O. Design basis for seven hardwired HID readers plus one spare.
Quoted 4-reader enclosure reference	Genetec / LifeSafety Power	SY-SV4RD-E2VM-P	0	1	Midpoint quote basis only. Current design narrative expands the hardwired-reader requirement; use the larger dual-voltage E4M1 enclosure unless final Owner coordination reduces the hardwired count.
Mercury intelligent controller	Genetec / Mercury	SY-MP-1502	1	1	Two onboard reader ports plus downstream RS-485 modules.
Mercury dual-reader interface	Genetec / Mercury	SY-MR-52 / current Series 3 equivalent	3	1	Three dual-reader modules + MP1502 onboard ports = 8 hardwired readers.
Synergis Cloud Link	Genetec	SY-CLOUDLINK-G2	1	1	Integrates Mercury hardware and supported ASSA ABLOY IP locks to campus Security Center.
Backup batteries	Power-Sonic	12 V, 7 Ah minimum; final by standby calculation	2	2	Increase capacity if final load/standby calculation requires.
Hardwired card reader	HID / Genetec	SY-40NKS-T0-000000 (Signo 40 basis)	7	3	Exterior entrances plus A/V-I.T., mechanical and electrical rooms.
Integrated IP reader/lock	SARGENT / ASSA ABLOY	IN120 / IN220 / Passport / Profile - final by Division 08	38	N/A	Door-mounted reader/lock at remaining interior openings; final series/finish/function by Door Hardware.
1200-lb magnetic lock	SDC	1571PD	8	8	Use only at openings specifically scheduled for magnetic locking.
Door contact	GRI	180-12-W	8	8	Hardwired door-position contacts; integrated IP locks may provide native status.
Emergency exit pushbutton	Dortronics	WS286-P23DA/XE5	5	5	Emergency release where required for magnetic-lock egress.
PIR request-to-exit	Bosch	DS150iTP160 with trim plate	4	4	REX where required by final locking arrangement.
Isolation / interface relay	Altronix	RB5	4	4	Interface/isolation relay as required.
Synergis Enterprise external reader connection	Genetec	GSC-SY-E-1R	7	2	Design basis for seven hardwired HID readers. Provide only the net additional quantity after reconciling factory-bundled and existing campus entitlements.
Synergis Enterprise wireless / PoE lock connection	Genetec	GSC-SY-E-1WR	38	N/A	One per supported SARGENT/ASSA ABLOY embedded wireless/PoE reader-lock when purchased with the lock. If sourced outside Genetec, use GSC-SY-E-1R per current Genetec ordering guidance.
Genetec Advantage for reader - 5 years	Genetec	ADV-RDR-E-5Y	45	N/A (quote used 1Y)	Five-year support/maintenance for each net new Enterprise reader/lock connection; final quantity follows approved reader schedule.
Existing Security Center / Synergis Enterprise base	Genetec	GSC-BASE-E current equivalent	VERIFY EXISTING	N/A	Integrate into campus system; furnish base/upgrade only if existing Security Center/Synergis Enterprise licensing is insufficient.

4 T406 EQUIPMENT & LICENSING

N.T.S.

Autodesk Docs://25909 Allegany College of MD ACM/WTDC Renovation/Allegany College Central Tech R25.rvt
11/5/2026 11:29:14 AM

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

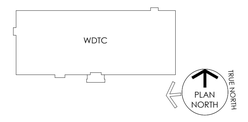
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PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS - SECURITY

SHEET NUMBER:

T406

SHEET 171 OF 172

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Camera ID	Plan Tag	Plan Location	Environment	Recommended Model	Design / Coordination Note	Design Bitrate (Mbps)	Genetec Camera License Qty
VC-01	360	Northwest exterior perimeter	Outdoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
VC-02	C1	Existing Vestibule 163 - west entry	Outdoor / vestibule	AXIS P3265-LVE	Outdoor fixed dome; select lens variant for doorway identification view	2	1
VC-03	C2	Corridor 172 - west classroom wing	Indoor	AXIS P3285-LV	Indoor varifocal dome with IR for corridor coverage	2	1
VC-04	360	Corridor 173 - west-central junction	Indoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
VC-05	360	Southwest exterior perimeter	Outdoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
VC-06	C3	Lobby 175 / Kitchen Lab-Cater corridor	Indoor	AXIS M3086-V	Wide-angle indoor dome for lobby/intersection coverage	3	1
VC-07	C1	Reception Workstation 103	Indoor	AXIS P3267-LV	5 MP indoor varifocal dome for higher-detail identification coverage	4	1
VC-08	C3	Lobby 102 - central lobby	Indoor	AXIS M3086-V	Wide-angle indoor dome for broad lobby coverage	3	1
VC-09	360	Vestibule Addition 100 - south entry exterior	Outdoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
VC-10	C1	Existing Vestibule 118 - east/north entry	Outdoor / vestibule	AXIS P3285-LVE	Outdoor fixed dome with IR for entry coverage	2	1
VC-11	C2	Corridor 178 / Cosmetology Lab 114	Indoor	AXIS P3285-LV	Indoor varifocal dome with IR for corridor coverage	2	1
VC-12	360	Northeast exterior perimeter / Mechanical 117	Outdoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
VC-13	360	Southeast exterior soffit / Cosmetology Lab 114	Outdoor	AXIS P3747-PLVE	Four-sensor 360° camera; 4 x 5 MP channels; remote PTRZ; 360° IR; design at 4 Mbps/channel	16	4
TOTAL / DESIGN BASIS		**13 physical cameras / 31 recording channels**				**114**	**31**

1 T407 CAMERA SCHEDULE

N.T.S.

Model	Application	Max Resolution	Lens	Horizontal FOV	Built-in IR	Compression	Environmental / Vandal	Recommended Use
AXIS P3285-LV	Indoor	1920 x 1080	3.4-9.8 mm	100-32 deg	Yes	H.264/H.265/AV1	IK10 / IP54	Primary indoor varifocal corridor/entry dome
AXIS M3086-V	Indoor	2688 x 1512	2.4 mm fixed	130 deg	No	H.264/H.265	IK08 / IP42	Wide-angle indoor lobby/open-area dome
AXIS P3267-LV	Indoor	2592 x 1944	3-8 mm	104-40 deg	Yes	H.264/H.265	IK10 / IP52	Higher-resolution indoor identification dome
AXIS P3285-LVE	Outdoor	1920 x 1080	3.4-9.8 mm or 10.8-28.2 mm	100-32 deg or 29.1-11 deg	Yes	H.264/H.265/AV1	IK10 / IP66/IP67	Outdoor entry/perimeter dome
AXIS P3265-LVE	Outdoor	1920 x 1080	3.4-8.9 mm or 9-22 mm	100-36 deg or 35-15 deg	Yes	H.264/H.265	IK10 / IP66	Outdoor dome where tighter lens option is required
AXIS P3747-PLVE	Indoor / Outdoor	4 x 2592 x 1944 (4 x 5 MP)	4 x 3.18-7.42 mm varifocal	360° total (90°-40° per sensor)	Yes, 360° IR	H.264/H.265 + Zipstream	IK10 / IP66	Four-sensor 360° multidirectional camera; ceiling 360° or corner 270° coverage; 4 Genetec camera connections

2 T407 CAMERA MODEL MATRIX

N.T.S.

GENETEC VIDEO SERVER SIZING - DESIGN BASIS			
Parameter	**Design Basis**	**Calculation / Result**	**Notes**
Physical camera devices	Count from camera schedule	13	Six P3747-PLVE plus seven single-channel cameras
Recording video channels	Genetec camera connections	31	P3747-PLVE requires 4 camera connections per unit; other cameras require 1 each
P3747-PLVE design bitrate	4 channels x 4 Mbps/channel	16 Mbps/device	H.265/Zipstream design assumption at approximately 15 fps; validate final scene bitrate
Aggregate recording bitrate	Sum of schedule design bitrates	114.0 Mbps	Includes all 31 video channels
Network/Archiver design load	+20% throughput headroom	136.8 Mbps	Use for server and network sizing
Recording mode	Continuous 24/7	24 hours/day	Worst-case sizing basis
Retention	30 days	30 days	Confirm Owner retention standard before procurement
Storage conversion	1 Mbps continuous x 86,400 sec/day ÷ 8	10.8 GB/day per Mbps	Decimal storage basis
Storage per day	Aggregate Mbps x 10.8 GB/day/Mbps	1231.2 GB/day	Before reserve
30-day video storage	Daily storage x 30 days	36.94 TB	Before reserve
Required usable storage	+20% storage reserve	44.32 TB	Minimum usable video storage
Recommended Genetec appliance	Streamvault SV-2041E-R4-64T-16	64 TB raw / 47.04 TB usable RAID 5	Current 2026 Genetec Streamvault 2000E catalog
Archiver-only recording capacity	SV-2041E-R4-64T-16	600 Mbps / 300 cameras	Design load is below appliance capacity
Total camera connection licenses	GSC-OM-E-1C or current equivalent	31	One Enterprise camera connection per video channel
Genetec Advantage	ADV-CAM-E-5Y or current equivalent	31	Five-year support per Enterprise camera connection
Separate panoramic entitlement	Not included	0	P3747-PLVE is treated as four independent video channels, not a single fisheye dewarped panoramic stream; verify on current Genetec Supported Device List
Capacity margin - storage	47.04 TB usable minus required usable	2.72 TB	Positive margin required
Capacity margin - recording	600 Mbps minus design load	463.2 Mbps	Positive margin required

3 T407 GENETEC SERVER SIZING

N.T.S.

DESIGN NOTES / OPEN ITEMS
1. The six plan locations marked "360' are now assigned AXIS P3747-PLVE four-sensor panoramic cameras.
2. Each AXIS P3747-PLVE provides four independently configurable 5 MP video channels. Genetec sizing therefore counts 4 Enterprise camera connections per P3747-PLVE.
3. Total project basis: 13 physical camera devices and 31 Genetec video channels/camera connections.
4. Server sizing assumes H.265 with Axis Zipstream, approximately 15 fps, 4 Mbps per 5 MP P3747 channel, continuous recording, and 30-day retention. Final bitrate shall be validated from approved camera profiles and scene complexity.
5. Recommended server: Genetec Streamvault SV-2041E-R4-64T-16, 64 TB raw / 47.04 TB usable RAID 5, configured as an Archiver integrated with the existing ACM Security Center system.
6. Provide 31 GSC-OM-E-1C Enterprise camera connection licenses and 31 ADV-CAM-E-5Y five-year Advantage entitlements, or current Genetec equivalents.
7. No separate Genetec panoramic/dewarping entitlement is carried for the P3747-PLVE because the design treats it as four standard video channels. Certified integrator shall verify current Supported Device List and Owner System ID before procurement.

4 T407 VIDEO SURVEILLANCE DESIGN NOTES

N.T.S.

11/3/2026 11:29:14 AM Autodesk Docs://25909 Allegany College of MD-ACM-WTDC Renovation/Allegany College Central Tech-R25.rvt

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The Contract Documents for the indicated public improvement were prepared under my supervision and, to the best of my knowledge and belief, they comply with the relevant building codes of the State of Maryland.
Signature_____ Date _____
License # _____, Expiration Date ___/___/_____

PROJECT INFORMATION

PROJECT TITLE

WORKFORCE DEVELOPMENT AND TRAINING CENTER RENOVATION

PROJECT ADDRESS

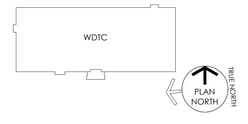
12401 WILLOWBROOK RD, SE
CUMBERLAND, MD 21501

PROJECT OWNER

ALLEGANY COLLEGE of MARYLAND
Maryland DEPARTMENT OF GENERAL SERVICES

SHEET INFORMATION

KEY PLAN



ISSUED FOR

	DESCRIPTION:	DATE:
	100% CONSTRUCTION DOCUMENTS	09/25/2026
	BID DOCUMENTS SET	11/06/2026

CAD DWG FILE:
DRAWN BY: NHA
CHK'D BY: NHA

JOB NUMBER: **25909 - DGS# CC-10-MC25-488**
ISSUE DATE: **11/06/2026**
SHEET TITLE:

DETAILS - SECURITY

SHEET NUMBER:

T407

SHEET 172 OF 172

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