TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION



OWNER
WRIGHT STATE UNIVERSITY

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ESTIMATOR
DELMAX CONSTRUCTION SERVICES LLC
COLUMBUS, OH

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M. FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

COVER SHEET

VOLUME A

ARCHITECTURAL/SITE ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

@	AT
AC	AIR CONDITIONING
ACT	ACOUSTICAL CEILING TILE
AD	AREA DRAIN
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AFP	ACCORDION FOLDING PARTITION
AGG	AGGREGATE
ALT	ALTERNATIVE
AL	ALUMINUM
AP	ACCESS PANEL
APROX	APPROXIMATE
AR	ACID RESISTANT
ARCH	ARCHITECT(URAL)
ASPH	ASPHALT
AV	AUDIO-VISUAL
AWG	AMERICAN WIRE GUAGE
AWT	ACCOUSTICAL WALL TREATMENT
L	ANGLE
&	AND
BIT	BITUMINOUS
BLDG	BUILDING
BLKG	BLOCKING
BM	BENCH MARK / BEAM
B.O.	BOTTOM OF
BOS	BOTTOM OF STEEL
BOT	BOTTOM
BRG	BEARING
BRK	BRICK
BUR	BUILT-UP ROOF
CAB	CABINET
CAR	CARPET
CAT	CATALOG
CB	CHALKBOARD / CATCH BASIN
CFM	CUBIC FEET PER MINUTE
CH	CABINET HEATER
CI	CAST IRON
CJ	CONTROL JOINT
CL	CENTERLINE
CLR	CLEAR
CLG	CEILING
CMP	CORRUGATED METAL PIPE
CMT	CERAMIC MOSAIC TILE
CMU	CONCRETE MASONRY UNIT
CO	CLEANOUT
COL	COLUMN
COMP	COMPACTED
CONC	CONCRETE
CONSTR	CONSTRUCTION
CONT	CONTINUOUS/CONTINUE
CONTR	CONTRACTOR
CORR	CORRUGATED
CT	CERAMIC TILE
C TO C	CENTER TO CENTER
CSK	COUNTER SINK
CU FT/CF	CUBIC FEET
CU IN/CI	CUBIC INCH
CU YD/CY	CUBIC YARD
CUSP	CUSPIDOR
CW	COLD WATER
CWF	CEMENTITIOUS WOOD FIBER
d	PENNY (NAILS, ETC.)
D	DEPTH/DEEP
°	DEGREE
DC	DISPLAY CASE
DEPT	DEPT
DET	DETAIL
DF	DRINKING FOUNTAIN
DIA Ø	DIAMETER
DIM	DIMENSION
DIV	DIVISION
DL	DEAD LOAD
DWG	DRAWING
DS	DOWNSPOUT
DWC	DRINKING WATER COOLER
E	EAST
EA	EACH
EF	EACH FACE
EJ	EXPANSION JOINT
EL	ELEVATION
ELEC	ELECTRIC(AL)
ELEV	ELEVATOR
ENGR	ENGINEER
EP	ELECTRICAL PANELBOARD
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EACH WAY
EFS (or DEFS)	DIRECT APPLIED EXTERIOR FINISH SYSTEM
EIFS	EXTERIOR INSULATION FINISH SYSTEM
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
EXT	EXTERIOR
EXTN	EXTENSION
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FIN	FINISH
FIN FL	FINISH FLOOR
FLR	FLOOR
FDN	FOUNDATION
FSR	FLEXIBLE SHEET ROOFING
FSSK	FLOOR SERVICE SINK
FT	FEET
FTG	FOOTING
FE	FIRE EXTINGUISHER
FEC	FIRE EXTINGUISHER CABINET
GA	GAUGE
GALV	GALVANIZED(D)
GB	GRAB BAR
GFCMU	GROUND FACE CONCRETE MASONRY UNIT
GFRGU	GLASS FIBER REINFORCED GYPSUM UNIT
GL	GLASS
GWB	GYPSUM WALLBOARD
H	HEIGHT/HIGH
HB	HOSE BIB
HDWE	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HPT	HIGH POINT
HS	HIGH STRENGTH
HTG	HEATING
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HW	HOT WATER
HWY	HIGHWAY
ID	INSIDE DIAMETER
IN	INCH
INCL	INCLUDE(D), (ING)
INFO	INFORMATION
INSUL	INSULATION
INTR	INTERIOR
INV	INVERT
JS	JOIST SUBSTITUTE
JST	JOIST
JT	JOINT
KIT	KITCHEN
L	LENGTH
LAM	LAMINATE(D)
LAV	LAVATORY
LB#	POUND
LKR	LOCKER
LL	LIVE LOAD
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
LVR	LOUVER
LW	LONG WAY
M	METER
MAS	MASONRY
MAT	MATERIAL
MAX	MAXIMUM
MB	MARKER BOARD
MECH	MECHANICAL
MEZZ	MEZZANINE
MFR	MANUFACTURER
MH	MOP HOLDER
MIN	MINIMUM
MISC	MISCELLANEOUS
MM	MILLIMETER
MO	MASONRY OPENING
MTL	METAL
N	NORTH
NIC	NOT IN CONTRACT
NO#	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OPNG	OPENING
OPP	OPPOSITE
O.H.	OPPOSITE HAND
O TO O	OUT TO OUT
OW	OPERABLE WALL
OZ	OUNCE
P	PAINT
PA	PUBLIC ADDRESS
PERF	PERFORATED
PLAS	PLASTIC
PL	PLASTIC LAMINATE
PLBG	PLUMBING
PLYWD	PLYWOOD
PREFAB	PREFABRICATED
PS	PROJECTION SCREEN
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSS	PENCIL SHARPENER SUPPORT
PT	PORCELAIN TILA
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
QT	QUARRY TILE
R	RISER
RA	RETURN AIR
RAD/R	RADIUS
RB	RESILIENT BASE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REF	REFERENCE
REFR	REFRIGERATOR
REINF	REINFORCING
REQ'D	REQUIRED
REV	REVISION(S)
RM	ROOM
R.O.	ROUGH OPENING
ROW	RIGHT-OF-WAY
S	SOUTH
SA	SUPPLY AIR
SAN	SANITARY
SCHED	SCHEDULE
SD	STORM DRAIN / SMOKE DETECTOR
SECT	SECTION
SEW	SEWER
SQFT	STRUCTURAL GLAZED FACING TILE
SHT	SHEET
SIM	SIMILAR
SP	SPACE
SPEC(S)	SPECIFICATION(S)
SPKR	SPEAKER
SQ	SQUARE
SQ FT/SF	SQUARE FEET
SQ IN/SI	SQUARE INCHES
SQ YD/SY	SQUARE YARDS
SS	STAINLESS STEEL
ST	STORM/STREET
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SUSP	SUSPENDED
SW	SHORT WAY / SIDEWALK
SYMM	SYMMETRY(ICAL)
SYNTH	SYNTHETIC
T	TREAD
T&B	TOP AND BOTTOM
T&G	TONGUE AND GROOVE
TA	TOILET ACCESSORY(IES)
TB	TACKBOARD
TC	TOP OF CURB
TEL	TELEPHONE
TERR	TERRAZZO
T.O	TOP OF
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOM	TOP OF MASONRY
TOS	TOP OF STEEL
TV	TELEVISION
TYP	TYPICAL
TWS	TACKABLE WALL SURFACE
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
UR	URINAL
VCT	VINYL COMPOSITE TILE
VCGWB	VINYL COVERED GYPSUM WALLBOARD
VERT	VERTICAL
VFWC	VINYL FABRIC WALLCOVERING
VIF	VERIFY IN FIELD
VIT	VITREOUS
VOL	VOLUME
VR	VAPOR RETARDER
VRB	VENTED RESILIENT BASE
VS	VENT STACK
VT	VINYL STACK
W	WEST / WIDE / WIDTH
W/	WITH
W/O	WITHOUT
WA	WARDROBE ACCESSORIES
WB	WOOD BASE
WC	WATER CLOSET / WIND COLUMN
WD	WOOD
WH	WATER HEATER
WP	WORKING POINT
WSSK	WALL SERVICE SINK
WWF	WELDED WIRE FABRIC
YD	YARD / YARD DRAIN

MATERIAL SYMBOLS LEGEND

MATERIAL SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- ASPHALT
- EARTH
- GRAVEL, STONE, OR DRAINAGE FILL
- SAND, GROUT, PLASTER, GWB, OR PLAN VIEW OF SIDEWALK
- CONCRETE
- TERRAZZO
- CUT STONE
- MARBLE
- SLATE
- FACE BRICK (PLAN)
- GLAZED BRICK
- CONCRETE MASONRY UNIT (PLAN)
- CONCRETE MASONRY UNIT (SECTION)
- CONCRETE MASONRY UNIT (SOLID, IN SECTION)
- SPRAY-ON INSULATION OR FIRE PROTECTION
- WIRE FENCE OR PARTITION
- METAL ROOF DECK
- LAMINATED WOOD BEAM (SMALL SCALE, SECTION)
- BATT INSULATION
- RIGID INSULATION
- ROUGH WOOD
- FINISH WOOD
- WOOD OTHER THAN NOMINAL
- PLYWOOD
- GYPSUM WALLBOARD (LARGE SCALE)
- STUD WALL (PLAN) - DIMENSIONS TAKEN TO FINISH FACE OF WALL - SEE WALL TYPES
- SOLID PANEL FOLDING PARTITION OR OPERABLE WALL
- FABRIC ACCORDION FOLDING PARTITION
- ACOUSTICAL TILE CEILING
- EXTERIROR INSULATION FINISH SYSTEM

DRAWING SYMBOLS LEGEND

DRAWING SYMBOLS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

- CALLOUT (SIM; 1A / A-400)
- EQUIPMENT TAG (1t)
- CEILING TAG (X1)
- KEY NOTE TAG (?)
- DOOR TAG (XXXX)
- EXTERIOR ELEVATION (X / AX.XX / X Ref)
- INTERIOR ELEVATION (X Ref / AX.XX / X Ref)
- GRID HEAD (X)
- LEVEL LINE (Name; EL XXX'-XX")
- REVISION TAG (1)
- ROOF TYPE TAG (A)
- BUILDING/WALL SECTION (SIM; 1A / A-300)
- DETAIL SECTION (SIM; 1A / A-300)
- ROOF SLOPE TAG (SLOPE 1/12)
- MATCHLINE VIEW REFERENCE (X / X### ; X / X###)
- WALL TAG (W##X)
- STOREFRONT TAG (1t)
- WINDOW TAG (XX)
- ROOM TAG (101)
- EXISTING CONTOUR (811)
- NEW CONTOUR (811)
- TEST BORING & NO. (TB#1)
- EXISTING POINT ELEVATION (811.9)
- NEW POINT ELEVATION (811.9)
- STORM SEWER INLETS

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Grand total: 85		

VOLUME B

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · JENNIFER M FULLER · 1115297 · REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: EAH

PROJECT NUMBER: FH224102.00/WSU-231035

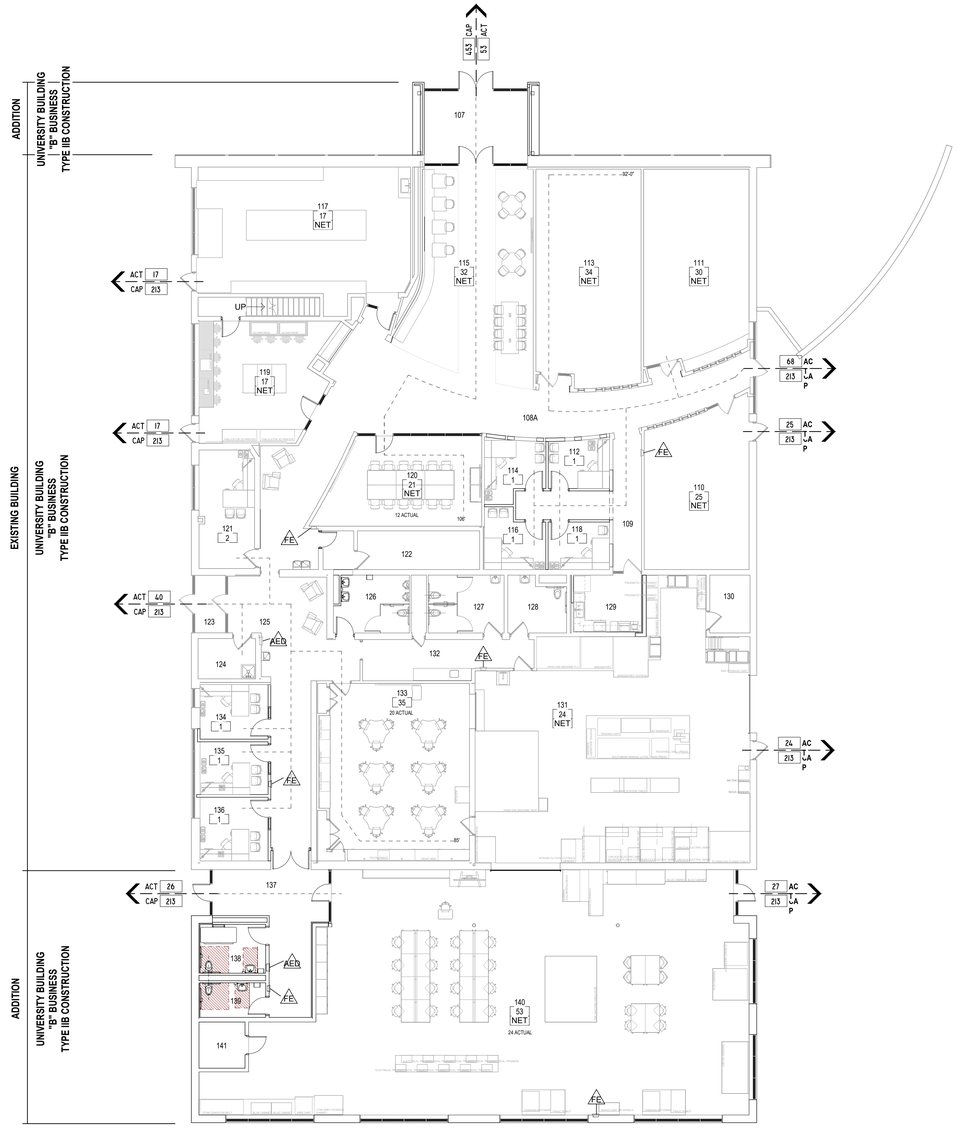
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

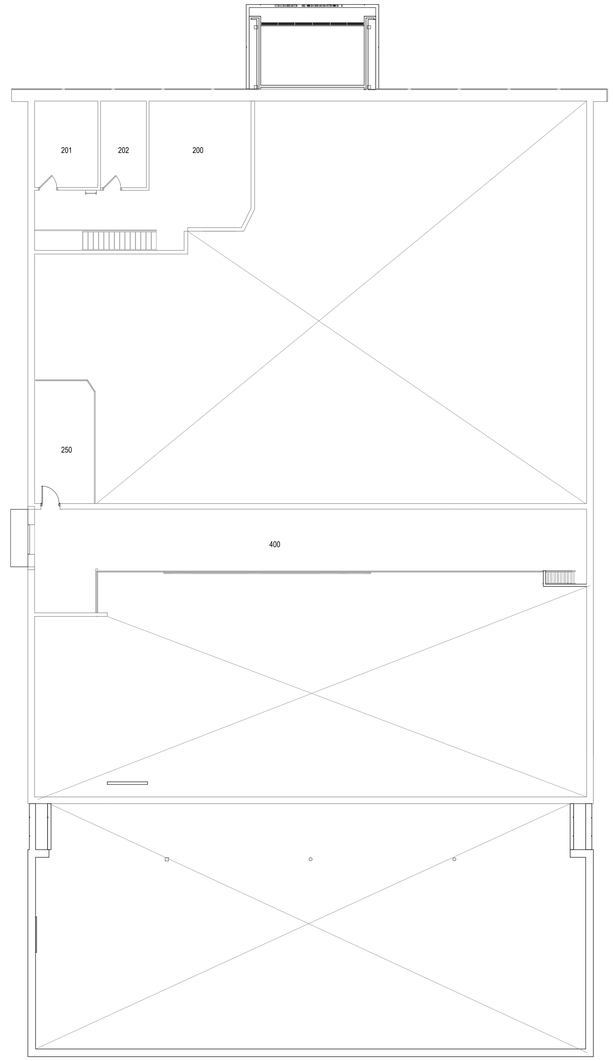
ABBREVIATIONS & INDEX

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Autodesk Docs://WSU-LLC - Workforce Development Project/2025_ARCH_224102.00.rvt
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1 FIRST FLOOR CODE PLAN
SCALE: 3/32" = 1'-0"



2 MECHANICAL PLATFORM PLAN
SCALE: 3/32" = 1'-0"

GROSS AREA CALCULATIONS

ITEM	DESCRIPTION	ACTUAL GROSS AREA
1.	FIRST FLOOR- EXISTING BUILDING	11,618 S.F.
2.	SECOND FLOOR- EXISTING BUILDING	2,452 S.F.
3.	FIRST FLOOR- ADDITION	4,268 S.F.
GROSS AREA TOTAL		18,338 S.F.

BUILDING CODE INFORMATION

1. BUILDING DESCRIPTION:
   UNIVERSITY BUILDING ADDITION
   232 STUDENTS
   12 STAFF

2. ALL INFORMATION IS BASED ON THE FOLLOWING CODES:
   2024 OHIO BUILDING CODE
   2017 OHIO FIRE CODE

3. USE AND OCCUPANCY CLASSIFICATION OHIO BUILDING CODE
   CHAPTER 3:
   B - BUSINESS

   ACCESSORY USE AREAS OHIO BUILDING CODE SECTION 508.2.

4. TYPE OF CONSTRUCTION OHIO BUILDING CODE CHAPTER 6 (REFER TO TABLE 601).
   TYPE 2B CONSTRUCTION.

   FIRE-RESISTANT RATING REQUIREMENTS, OHIO BUILDING CODE TABLE 602:

   REFER TO THE SITE PLAN DRAWINGS FOR LOCATION OF BUILDING(S) ON SITE; DISTANCES TO CLOSEST INTERIOR LOT LINES; TO THE CENTER OF A STREET, ALLEY OR PUBLIC WAY; OR TO AN IMAGINARY LINE BETWEEN TWO BUILDINGS ON THE SAME LOT.

5. FIRE RESISTANCE RATED CONSTRUCTION OHIO BUILDING CODE CHAPTER 7:

   REFER TO THE CODE PLANS FOR MAXIMUM AREAS OF EXTERIOR OPENINGS BASED ON THE FIRE SEPARATION DISTANCES.

   PENETRATIONS THROUGH FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIRESTOPPING PER PROJECT MANUAL.

   CEILING AND FLOOR OPENINGS THROUGH NON-FIRE-RESISTANCE-RATED ASSEMBLIES SHALL BE PROVIDED WITH FIREBLOCKING PER PROJECT MANUAL.

6. INTERIOR FINISHES TO COMPLY WITH OHIO BUILDING CODE CHAPTER 8.

7. FIRE AND SMOKE PROTECTION SYSTEMS, OHIO BUILDING CODE CHAPTER 9:

   THE ENTIRE BUILDING SHALL BE PROVIDED WITH AN AUTOMATIC SPRINKLER SYSTEM. REFER TO FIRE PROTECTION DRAWINGS.

8. MEANS OF EGRESS OHIO BUILDING CODE CHAPTER 10:

   THE MEANS OF EGRESS REQUIREMENTS SHALL BE DETERMINED BY THE ACTUAL OR COMPUTED NUMBER OF OCCUPANTS WHICHEVER IS THE LARGEST NUMBER. REFER TO THE CODE PLANS FOR ROOM OCCUPANT LOADS. AREAS OR ROOMS WITH 50 OR MORE OCCUPANTS SHALL BE PROVIDED WITH TWO OR MORE MEANS OF EGRESS. 500 OR MORE OCCUPANTS SHALL BE PROVIDED WITH THREE OR MORE MEANS OF EGRESS; AND 1000 OR MORE OCCUPANTS SHALL BE PROVIDED WITH FOUR OR MORE MEANS OF EGRESS.

9. STRUCTURAL DESIGN LOADS:

   REFER TO STRUCTURAL DRAWINGS FOR CODE REQUIREMENTS

45 — CALCULATED MAXIMUM OCCUPANT LOAD

ROOM LEGEND - FIRST FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
107	107	VESTIBULE	230 SF
108A	COR100	CORRIDOR	744 SF
108B	COR101	CORRIDOR	274 SF
109	COR102	CORRIDOR	213 SF
110	110	CLASSROOM	496 SF
111	111	CLASSROOM	612 SF
112	114D	OFFICE	93 SF
113	113	CLASSROOM	677 SF
114	114C	OFFICE	104 SF
115	115	STUDENT GATHERING	751 SF
116	114B	OFFICE	102 SF
117	117	DESIGN LAB	843 SF
118	114A	OFFICE	88 SF
119	119	LAKER SPACE	439 SF
120	120	MEETING	405 SF
121	121	OFFICE	197 SF
122	122A	ELECTRICAL	184 SF
123	123	VESTIBULE	57 SF
124	125	CUSTODIAL	70 SF
125	COR104	CORRIDOR	510 SF
126	124M	MEN'S	126 SF
127	124W	WOMEN'S	133 SF
128	126	RESTROOM	92 SF
129	112	BREAK/COPY	120 SF
130	133A	STORAGE	70 SF
131	133	WELDING / MACHINING	1,930 SF
132	128	BREAK ROOM	190 SF
133	130	MATERIALS SCIENCE	812 SF
134	127	OFFICE	112 SF
135	129	OFFICE	109 SF
136	131	OFFICE	131 SF
137	COR105	CORRIDOR	292 SF
138	138	UNISEX RR	97 SF
139	139	UNISEX RR	69 SF
140	140	PRODUCTION LAB	3,417 SF
141	140A	ELEC. RM.	64 SF
			14,851 SF

ROOM LEGEND - SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
201	201	BOILER	165 SF
202	202	IT CLOSET	120 SF
200	200	MECHANICAL PLATFORM	620 SF
250	250	TELECOM PLATFORM	223 SF
400	400	MECHANICAL PLATFORM	1,105 SF
			2,233 SF

PLUMBING FIXTURE COUNTS

USER GROUP	NUMBER OF USERS	USER PER GENDER	WATER CLOSETS		LAVATORIES		DRINKING FTNS.		SERVICE SINKS	
			REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED	REQUIRED	PROVIDED
(B) BUSINESS	244	122 M.	4	4 W.C.	1/80 = 2	3	1/100 = 3	3	1	1
		122 F.	4	4 W.C.	1/80 = 2	3				

1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER

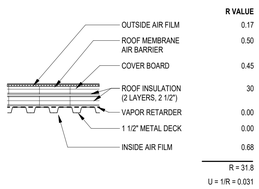
BUILDING DESIGNED FOR 232 STUDENTS AND 12 STAFF

FAMILY TOILET ROOM/UNISEX: 1

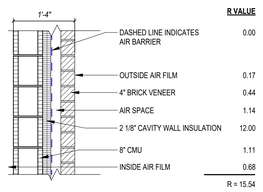
AREA, HEIGHT AND EXITING TABLE

BLDG. NO.	AREA									HEIGHT		EXITING			
	ACTUAL AREA (NOTE 1)	ALLOW. AREA	TYPE OF CONSTR.	USE GROUP (NOTE 2)	SPRINKLER INCREASE (506.3)		FRONTAGE INCREASE (506.2)		MODIFIED ALLOW. AREA	ACTUAL HEIGHT	ALLOW. HEIGHT (NOTE 3)	TOTAL OCC.'S EXITING	TOTAL REQ. EXITS	TOTAL EXITS PROVIDED	MAXIMUM TRAVEL DISTANCE
					%	SQ. FT.	%	SQ. FT.	SQ. FT.	STORIES	STORIES				
FIRST FLOOR															
1	18,338	92,000	2B	B	N/A	N/A	N/A	N/A	N/A	1	4	297	2	9	250 FT.

NOTES:
1. MEASURED TO INSIDE OF EXTERIOR WALL.
2. BASED ON MOST RESTRICTIVE USE GROUP.
3. TABLE 503, INCREASE BY ONE STORY FOR SPRINKLER SYSTEM PER SECTION 504.2.
4. REFER TO CODE PLANS FOR TRAVEL DISTANCE ROUTES.
5. FRONTAGE INCREASE, N.A., (NOT REQUIRED TO OBTAIN REQUIRED AREA)

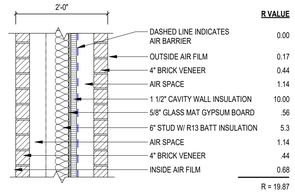


TYPICAL LOW SLOPE ROOF ASSEMBLY



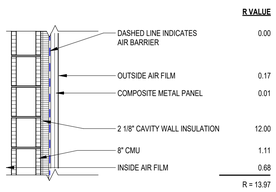
TYPICAL EXTERIOR CAVITY WALL ASSEMBLY (8" CMU)

EXACT COMPOSITION MAY VARY BASED ON AIR BARRIER/INSULATION SYSTEM SELECTED



TYPICAL EXTERIOR CAVITY WALL ASSEMBLY (6" STUD)

EXACT COMPOSITION MAY VARY BASED ON AIR BARRIER/INSULATION SYSTEM SELECTED



TYPICAL EXTERIOR CAVITY WALL ASSEMBLY (8" CMU)

EXACT COMPOSITION MAY VARY BASED ON AIR BARRIER/INSULATION SYSTEM SELECTED

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419.586.7771 WWW.FHAI.COM
128 W Market St, Celina, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M. FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

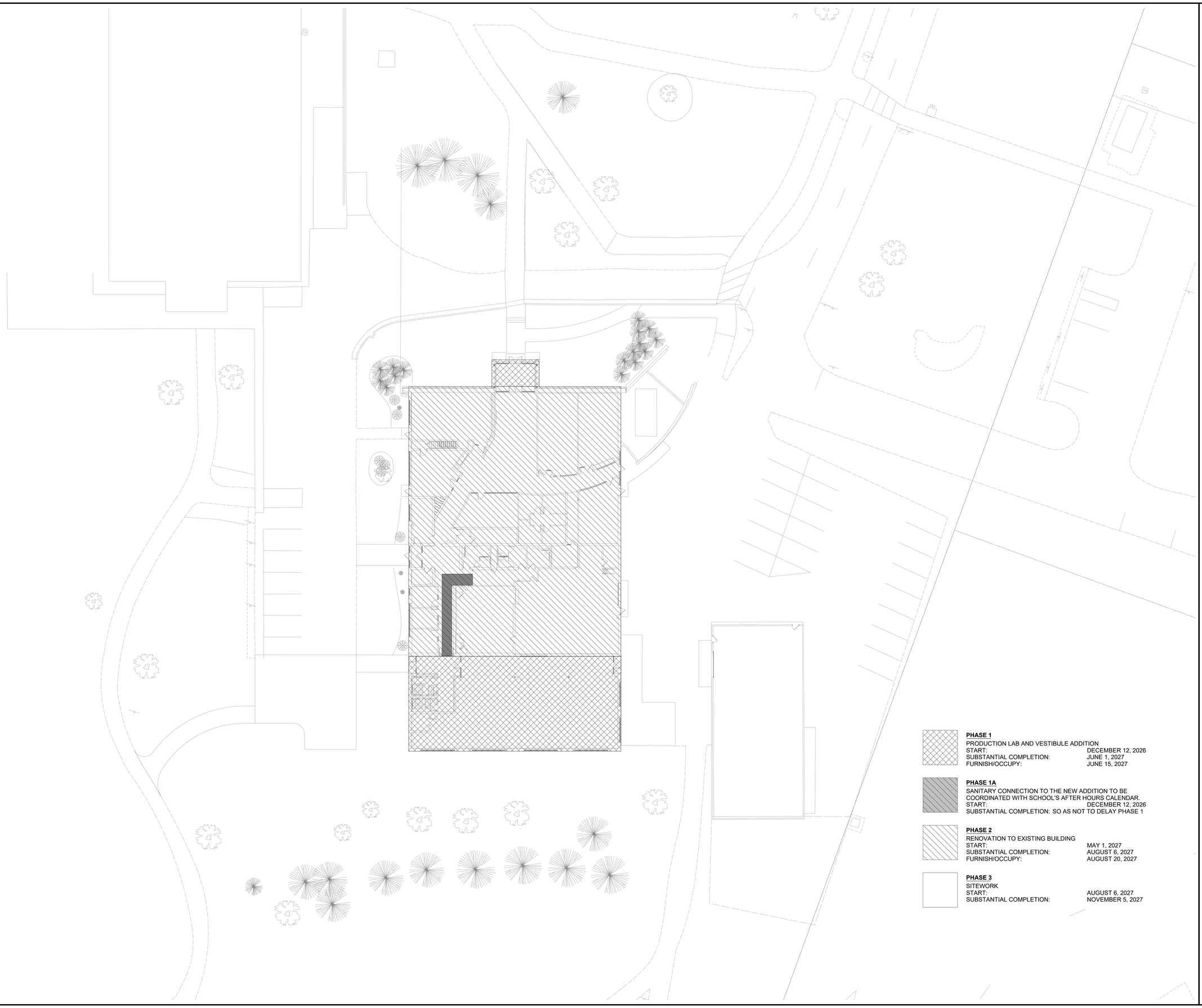
DRAWN BY: Author
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

FIRST FLOOR CODE PLAN

AP101

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PHASE 1
PRODUCTION LAB AND VESTIBULE ADDITION
START: DECEMBER 12, 2026
SUBSTANTIAL COMPLETION: JUNE 1, 2027
FURNISH/OCCUPY: JUNE 15, 2027

PHASE 1A
SANITARY CONNECTION TO THE NEW ADDITION TO BE COORDINATED WITH SCHOOL'S AFTER HOURS CALENDAR.
START: DECEMBER 12, 2026
SUBSTANTIAL COMPLETION: SO AS NOT TO DELAY PHASE 1

PHASE 2
RENOVATION TO EXISTING BUILDING
START: MAY 1, 2027
SUBSTANTIAL COMPLETION: AUGUST 6, 2027
FURNISH/OCCUPY: AUGUST 20, 2027

PHASE 3
SITEWORK
START: AUGUST 6, 2027
SUBSTANTIAL COMPLETION: NOVEMBER 5, 2027

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Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

PHASING PLAN

AP102

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GENERAL STRUCTURAL NOTES

GENERAL

1. THE STRUCTURE IS DESIGNED TO BE SELF-SUPPORTING AND STABLE AFTER THE CONSTRUCTION IS FULLY COMPLETED. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE CONSTRUCTION PROCEDURE AND SEQUENCE AND TO ENSURE THE SAFETY OF THE BUILDING AND ITS COMPONENT PARTS DURING ERECTION. THIS INCLUDES THE ADDITION OF WHATEVER SHORING, SHEETING, TEMPORARY BRACING, GUYS, OR TIEDOWNS WHICH MIGHT BE NECESSARY. SUCH MATERIAL IS TO REMAIN THE CONTRACTOR'S PROPERTY AFTER COMPLETION OF THE PROJECT.

2. IT IS SOLELY THE CONTRACTOR'S RESPONSIBILITY TO FOLLOW ALL APPLICABLE SAFETY CODES AND REGULATIONS DURING ALL PHASES OF CONSTRUCTION.

3. MECHANICAL EQUIPMENT LOADS, OPENINGS AND STRUCTURE IN ANY WAY RELATED TO MECHANICAL REQUIREMENTS ARE SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO OBTAIN APPROVAL OF MECHANICAL AND OTHER TRADES BEFORE PROCEEDING WITH SUCH PORTION OF THE WORK. EXCESS COST RELATED TO VARIATION IN MECHANICAL REQUIREMENTS TO BE BORNE BY MECHANICAL CONTRACTOR.

4. DO NOT SCALE THE DRAWINGS WHERE DIMENSIONS ARE NOT SPECIFICALLY GIVEN. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONS AND ELEVATIONS NOT SHOWN. COORDINATE ALL DIMENSIONS AND ELEVATIONS WITH THE ARCHITECTURAL DRAWINGS. ALL DIMENSIONS AND ELEVATIONS SHOWN ON THE STRUCTURAL DRAWINGS ARE NOT INTENDED TO AUGMENT, NOR SUPERSEDE THOSE SHOWN ON THE ARCHITECTURAL DRAWINGS.

5. FIELD VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION. NOTIFY THE ARCHITECT IMMEDIATELY WHERE CONFLICTS EXIST WITHIN THE DRAWINGS OR BETWEEN THE DRAWINGS AND FIELD CONDITIONS.

6. THROUGHOUT THESE PLANS, THE TERM "PROVIDE" IS DEFINED AS "SUPPLY AND INSTALL".

7. SHOP DRAWINGS ARE TO BE SUBMITTED BY COMPLETE ERECTION PHASE OR SEQUENCE. LIMITS OF EACH INDIVIDUAL ERECTION PHASE OR SEQUENCE ARE TO BE CLEARLY INDICATED ON THE PLANS. INCOMPLETE OR PIECEMEAL SHOP DRAWINGS WILL BE RETURNED PRIOR TO REVIEW. RESUBMITTALS ARE TO HAVE REVISIONS CLEARLY MARKED OR IDENTIFIED. THE CONTRACTOR SHALL REVIEW AND ACCEPT FULL RESPONSIBILITY FOR DIMENSIONAL CORRECTNESS. ALL SHOP DRAWINGS MUST BEAR THE APPROVAL STAMP OF THE CONTRACTOR PRIOR TO REVIEW BY THE ARCHITECT OR ENGINEER.

8. SHOULD ANY OF THE DETAILED INSTRUCTIONS SHOWN ON THE PLANS CONFLICT WITH THE GENERAL STRUCTURAL NOTES, THE SPECIFICATIONS OR WITH EACH OTHER, THE STRICTEST PROVISION WILL GOVERN.

9. CODE INFORMATION

- GOVERNING CODE:	2024 OHIO BUILDING CODE	
- BUILDING RISK CATEGORY:	CATEGORY III	
LOADING TYPE:	UNIFORM (PSF)	CONCENTRATED (LB)
FLOOR LIVE LOADS (WITH ALLOWABLE REDUCTIONS WHERE APPLICABLE):		
- FIRST FLOOR OCCUPANCIES	100 PSF	--
ROOF LIVE LOADS:		
- ORDINARY ROOFS	20 PSF	--
ROOF RAIN LOADS	PRIMARY	SECONDARY
- RAIN INTENSITY (i)	2.8 IN/HR	1.5 IN/HR
SNOW LOADS:		
- GROUND SNOW LOAD (Pg)	20 PSF	
- FLAT ROOF SNOW LOAD (Pf)	22 PSF	
- SNOW EXPOSURE FACTOR (Ce)	1.0	
- SNOW LOAD IMPORTANCE FACTOR (Is)	1.1	
- THERMAL FACTOR (Ct)	1.0	
- SNOW DRIFTING (Pd) AND EXTENTS	INDICATED ON PLAN	
WIND LOADS:		
- BASIC WIND SPEED (V)	114 MPH	
- BASIC ALLOWABLE WIND SPEED (V asd)	88 MPH	
- SITE EXPOSURE CATEGORY	D	
- INTERNAL PRESSURE COEFFICIENT	+/- 0.18	
SEISMIC LOADS:		
- SEISMIC IMPORTANCE FACTOR (Ie)	1.25	
- MAPPED SPECTRAL RESPONSE ACCELERATION (Ss)	0.211	
- MAPPED SPECTRAL RESPONSE ACCELERATION (S1)	0.071	
- SEISMIC SITE CLASS	D	
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sds)	0.225	
- DESIGN SPECTRAL RESPONSE ACCELERATION (Sd1)	0.114	
- SEISMIC DESIGN CATEGORY	B	
- RESPONSE MODIFICATION COEFFICIENT (R)	3.0	
- SEISMIC RESPONSE COEFFICIENT (Cs)	0.094	
- SEISMIC DESIGN BASE SHEAR (V)	25.2 K	
- ANALYSIS PROCEDURE	EQUIVALENT LATERAL FORCE	
- BASIC SEISMIC FORCE-RESISTING SYSTEM:	STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC	
SPECIAL LOADS		
- INTERIOR WALLS & PARTITIONS	5 PSF HORIZONTAL (ALLOWABLE)	
- RETAINING WALLS	50 PCF	
GEOTECHNICAL:		
- GEOTECHNICAL ENGINEER:	CTL ENGINEERING	
- REFERENCE REPORT I.D. OR NUMBER:	24050051WAP	
- REFERENCE REPORT DATE:	JANUARY 28, 2025	
- ALLOWABLE DESIGN BEARING PRESSURE:	3,000 PSF	
- FOUNDATION TYPE:	SHALLOW SPREAD FOOTINGS	

DELEGATED DESIGN ITEMS

1. PREFABRICATED ITEMS SHOWN ON THE STRUCTURAL DRAWINGS ARE REFERENCED FOR GENERAL COORDINATION PURPOSES ONLY. THESE SYSTEMS SHALL BE DESIGNED, FURNISHED, AND INSTALLED AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS. JEZERINAC GEERS WILL REVIEW THE DESIGN METHODOLOGY, LOADS, AND INSTALLATION DETAILS AS PART OF THE SHOP DRAWING REVIEW PROCESS AND MAY REQUEST A SEALED CALCULATION PACKAGE FOR REVIEW. SHOP DRAWINGS SHALL BE SIGNED AND SEALED BY THE ENGINEER RESPONSIBLE FOR THE DESIGN OF THE DESIGNED ITEMS. DELEGATED DESIGN ITEMS FOR THIS PROJECT INCLUDE THE FOLLOWING:
   A. DIVISION 5:
      1. STRUCTURAL STEEL CONNECTIONS (SEE STRUCTURAL STEEL SECTION/SPECIFICATIONS FOR FURTHER DETAIL)
      2. STEEL BAR JOISTS
      3. COLD-FORMED METAL FRAMING AND THEIR CONNECTIONS
      4. CURTAIN WALLS AND STOREFRONT SYSTEMS

REINFORCED CONCRETE

1. SPECIFICATIONS: IN GENERAL, COMPLY WITH ACI-301-20, "SPECIFICATIONS FOR STRUCTURAL CONCRETE".

2. MATERIALS:
   A. STRUCTURAL CONCRETE:

MIX USAGE	f'c (PSI)	MAX w/cm	EXPOSURE CLASS	AIR CONTENT
LEAN CONCRETE	1,500	---	F0	---
FOOTINGS & INTERIOR COLUMN PIERS	3,500	0.55	F1	---
INTERIOR SLABS ON GRADE	4,000	0.45	F0	---
EXTERIOR FOUNDATION STEMWALLS, EXTERIOR FOUNDATION WALLS, & EXTERIOR COLUMN PIERS	4,500	0.45	F2	5%-7%
EXTERIOR UNREINFORCED SLABS ON GRADE & EXTERIOR CONCRETE NOT OTHERWISE IDENTIFIED	4,500	0.45	F2, C1	5%-7%

   B. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI.
   C. CEMENT: PORTLAND CEMENT, ASTM C150: TYPE I OR TYPE II; ASTM C1157: TYPE LH OR GU; OR ASTM C595: TYPE IL. ALL CEMENT FOR CONCRETE EXPOSED TO VIEW IS TO BE FROM THE SAME MILL.
   D. AGGREGATES: ASTM C33, USE SIZE NO. 57 FOR ALL MIXES UNLESS NOTED OTHERWISE.
   E. ADMIXTURES:
      1. WATER-REDUCING, LOW AND MID RANGE: ASTM C494, TYPE A OR D.
      2. HIGH-RANGE WATER REDUCING, SUPERPLASTICIZER: ASTM C494, TYPE F OR G.
   F. AIR-ENTRAINING: ASTM C260.
   G. FLY-ASH: ASTM C618, TYPE C OR F.
   H. NON-CHLORIDE, NON-CORROSIVE ACCELERATOR: ASTM C494, TYPE C OR E.
   I. VAPOR RETARDER SHALL CONFORM TO ASTM E1745 "STANDARD SPECIFICATION FOR PLASTIC WATER VAPOR RETARDERS USED IN CONTACT WITH SOIL OR GRANULAR FILL UNDER CONCRETE SLABS", CLASS A.
   J. VAPOR RETARDER SHALL BE INSTALLED IN ACCORDANCE WITH ASTM E1643 "STANDARD PRACTICE FOR INSTALLATION OF WATER VAPOR RETARDERS USED IN CONTACT WITH EARTH OR GRANULAR FILL UNDER CONCRETE SLABS. THE VAPOR RETARDER/BARRIER SHALL BE A MINIMUM OF 15 MILS THICK AND PLACED DIRECTLY ON THE GRANULAR FILL, BELOW THE CONCRETE FLOOR SLAB. LAP JOINTS A MINIMUM OF 6 INCHES AND SEAL WITH MANUFACTURER'S RECOMMENDED TAPE OR ADHESIVE.

3. FIELD MANUAL: PROVIDE AT LEAST ONE COPY OF THE ACI FIELD REFERENCE MANUAL, MNL-15(20) IN THE FIELD OFFICE AT ALL TIMES.

4. SUBMITTALS:
   A. SUBMIT A MIX DESIGN FOR EACH MIXTURE USAGE REQUIRED FOR THE PROJECT. CONCRETE PROPORTIONS ARE TO BE ESTABLISHED ON THE BASIS OF PREVIOUS FIELD EXPERIENCE OR TRIAL MIXTURES.
   B. SUBMIT PLACING DRAWINGS FOR ALL REINFORCING. INDICATE STRENGTH, SIZE, AND DETAILS OF ALL BAR REINFORCING.
   C. SUBMIT PRODUCT LITERATURE FOR ADMIXTURES AND CURING COMPOUNDS PROPOSED FOR USE.
   D. SUBMIT REPORTS OF ALL REQUIRED TESTING AND INSPECTIONS.

5. CONTINGENCIES:
   A. PROVIDE LEAN CONCRETE UNDER FOUNDATIONS FOR ACCIDENTAL OVER EXCAVATION, SOFT SPOTS, AND UTILITY TRENCHES.

6. FOOTINGS, PIERS, WALLS:
   A. DOWELS IN FOOTINGS TO MATCH VERTICAL PIER OR WALL REINFORCING.
   B. PROVIDE CORNER BARS AT WALL AND FOOTING CORNERS TO MATCH HORIZONTAL REINFORCING.
   C. LAP BARS AS INDICATED IN THE CONCRETE REINFORCING LAP SCHEDULE.

7. SPLICES:
   A. LAP SPLICE REINFORCING BARS AS SCHEDULED. MINIMUM LAP = 36 DIAMETERS.

8. CONSTRUCTION JOINTS:
   A. CONSTRUCTION JOINTS PERMITTED ONLY WHERE SHOWN OR AS APPROVED BY THE STRUCTURAL ENGINEER.

9. FINISHES:
   A. PER ACI 117, SURFACES OF INTERIOR SLABS ON GRADE ARE TO BE FINISHED TO THE FOLLOWING TOLERANCES: FLOOR FLATNESS F(f)=30 AND LEVELNESS F(l)=20 UNLESS NOTED OTHERWISE IN SPECIFICATIONS.
   B. TYPICAL INTERIOR FLOOR AREAS TO RECEIVE CARPET, RESILIENT FLOOR COVERING, OR TO REMAIN EXPOSED - TROWELED FINISH.
   C. INTERIOR FLOOR AREAS TO RECEIVE QUARRY TILE OR CERAMIC TILE - FLOATED FINISH.
   D. EXTERIOR SLABS - BROOM FINISH.

10. CURING:
   A. CURING IS TO COMMENCE IMMEDIATELY AFTER CONCRETE PLACEMENT AND CONTINUE FOR AT LEAST 7 DAYS. DO NOT ALLOW CURING TO BE DELAYED OVERNIGHT.
   B. INTERIOR SLABS TO RECEIVE QUARRY TILE OR CERAMIC TILE ARE TO BE MOIST-CURED WITHOUT THE USE OF A CURING COMPOUND.
   C. ALL OTHER SLABS MAY BE EITHER MOIST-CURED OR RECEIVE AN APPLICATION OF CURING COMPOUND.

11. FIELD QUALITY CONTROL:
   A. OBTAIN CONCRETE FOR REQUIRED TESTS AT POINT OF PLACEMENT. IF CONCRETE IS PUMPED, OBTAIN CONCRETE AT DISCHARGE END.
   B. FOR EACH CLASS OF CONCRETE, OTHER THAN LEAN CONCRETE, PERFORM ONE STRENGTH TEST FOR EACH 50 YARDS, OR FRACTION THEREOF, FOR ONE DAY PLACEMENT.
   C. DETERMINE SLUMP FOR EACH STRENGTH TEST.
   D. DETERMINE AIR CONTENT FOR EACH STRENGTH TEST OF EXTERIOR EXPOSED CONCRETE.
   E. MAINTAIN RECORDS OF ALL TESTS INDICATING EXACT LOCATION OF THE STRUCTURE REPRESENTED BY EACH TEST.

MASONRY

1. MATERIALS:
   A. CONCRETE BLOCK: ASTM C90 (HOLLOW AND SOLID), MINIMUM NET AREA COMPRESSIVE STRENGTH OF CONCRETE MASONRY UNITS = 2,600 PSI.
   B. MORTAR: ASTM 270 TYPE S, MINIMUM COMPRESSIVE STRENGTH = 1,800 PSI
   C. GROUT FOR BOND BEAM AND CORE FILL: ASTM C476, COARSE TYPE WITH f'c = 2,500 PSI MIN.
   D. DESIGN COMPRESSIVE STRENGTH OF MASONRY SYSTEM: f'm = 2,250 PSI
   E. ALL DEFORMED REINFORCING BARS: FY = 60,000 PSI. LAP BARS AS INDICATED IN THE CONCRETE MASONRY REINFORCING LAP SCHEDULE.
   F. HORIZONTAL JOINT REINFORCING: STANDARD LADDER TYPE, 9 GA., HOT-DIPPED GALVANIZED FINISH. PROVIDE AT 8" O.C. BELOW GRADE, AND 16" O.C. ABOVE GRADE, UNLESS NOTED OTHERWISE.

2. CONTROL JOINTS:
   A. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT OR 24 FEET ON CENTER, WHICHEVER IS SMALLER. IN ADDITION, PROVIDE CONTROL JOINTS AT THE ENDS OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.

3. MISCELLANEOUS:
   A. PROVIDE SOLID OR GROUT-FILLED CMU FOR ALL BELOW-GRADE FOUNDATION WALLS.
   B. FILL CORE SOLID AROUND CAST-IN ANCHOR RODS.
   C. PROVIDE SOLID CMU OR SOLIDLY FILLED HOLLOW CMU AT ALL EPOXY ANCHOR AND WEDGE ANCHOR LOCATIONS. EXTEND SOLID AREA AT LEAST 8" IN ALL DIRECTIONS FROM CENTER OF ANCHOR.
   D. HOLLOW MASONRY UNITS TO BE LAID WITH FULL MORTAR COVERAGE ON HORIZONTAL AND VERTICAL FACE SHELLS. WEBS ARE TO ALSO BE BEDDED IN ALL COURSES OF PIERS, PILASTERS, THE STARTING COURSE ON FOOTINGS, AND WHEN ADJACENT TO CELLS OR CAVITIES TO BE REINFORCED OR FILLED WITH CONCRETE OR GROUT. SOLID UNITS TO BE LAID WITH FULL HEAD AND BED JOINTS.
   E. WHERE HOLLOW MASONRY UNITS ARE USED ABOVE HOLLOW MASONRY UNITS OF A DIFFERENT THICKNESS, PROVIDE A CONTINUOUS COURSE OF SOLID MASONRY AT LEAST 8" HIGH BELOW THE TRANSITION.

STRUCTURAL STEEL

1. MATERIALS:
   A. STRUCTURAL STEEL WIDE FLANGE SHAPES: ASTM A992, Fy = 50 KSI
   B. STRUCTURAL STEEL CHANNELS, ANGLES, PLATES, ETC.: ASTM A36, Fy = 36 KSI
   C. HIGH STRENGTH BOLTS: ASTM A325 OR A490
   D. ANCHOR RODS: ASTM F1554, GRADE 36, UNLESS NOTED OTHERWISE
   E. ELECTRODES: SERIES E70
   F. RECTANGULAR HSS: ASTM A500, GRADE C, FY = 50 KSI
   G. STRUCTURAL PIPES: ASTM A53, GRADE B, FY = 35 KSI
   H. SHEAR STUDS: ASTM A108, FY = 60 KSI
   I. DEFORMED BAR ANCHORS: ASTM A1064, Fy = 70 KSI

2. SPECIFICATIONS:
   A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS D1.1. UNLESS SPECIFICALLY SHOWN OTHERWISE, DESIGN, FABRICATION AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. AISC SPECIFICATION FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
      2. AISC CODE OF STANDARD PRACTICE.
      3. STRUCTURAL WELDING CODE, AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
      4. SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A325 OR A490 BOLTS.

3. SUBMITTALS:
   A. SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INCLUDE ERECTION PLANS, CONNECTION DETAILS, AND SHOP DETAILS INDICATING CUTS, COPES, CAMBERS, CONNECTIONS, HOLES, THREADED FASTENER TYPES AND SIZES, AND SIZES AND LENGTHS OF WELDS.
   B. INDICATE MATERIAL SPECIFICATIONS, STRENGTHS, AND FINISHES.

4. CONNECTIONS:
   A. FIELD CONNECTIONS ARE TO BE BOLTED, EXCEPT AS INDICATED OTHERWISE. SHOP CONNECTIONS MAY BE WELDED OR BOLTED.
   B. CONNECTIONS ARE TO BE DESIGNED BY THE FABRICATOR TO DEVELOP EITHER 110% OF THE FULL UNIFORM LOAD CAPACITY OF THE MEMBER (55% EACH END), OR THE FORCES SHOWN ON THE PLANS. MINIMUM CONNECTION CAPACITY TO BE 15 KIPS. FOLLOW INSTRUCTIONS ON DRAWINGS FOR GENERAL ARRANGEMENT OR PARTICULAR DETAILS.
   C. MISCELLANEOUS STEEL MEMBERS (ANGLES, CHANNELS, ETC.) THAT SUPPORT DECK AROUND THE PERIMETER OF THE ROOF SHALL BE CONTINUOUS. WHERE SPLICES IN THESE MEMBERS MUST OCCUR TO FACILITATE ERECTION, PROVIDE PARTIAL PENETRATION SQUARE GROOVE WELD (BUTT JOINT) W/ 3/16" EFFECTIVE THROAT ON ONE SIDE, EACH LEG.

5. COATINGS:
   A. DO NOT PAINT STEEL OR ANCHOR RODS WHICH WILL BE ENCASED IN CONCRETE OR MASONRY, NOR ANY STEEL WHICH IS SCHEDULED TO RECEIVE SPRAY-APPLIED OR INTUMESCENT-MASTIC FIREPROOFING.
   B. PAINT ALL INTERIOR EXPOSED STEEL (INCLUDING INTERIOR LINTELS) WITH TWO COATS OF RED-OXIDE PRIMER.
   C. HOT-DIP GALVANIZE ALL EXTERIOR STEEL (INCLUDING LINTELS AND BRICK SHELF ANGLES).
   D. PROVIDE A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT FOR ALL BELOW-GRADE STEEL (INCLUDING ANCHOR RODS, NUTS, WASHERS, BASE PLATES, AND THE BELOW-GRADE PORTION OF COLUMNS) WHICH IS NOT FULLY ENCASED IN CONCRETE.
   E. INTERIOR NON-EXPOSED STEEL NEED NOT BE PRIME PAINTED.

6. MISCELLANEOUS:
   A. PROVIDE HOLES FOR OTHERS. IF OPENING IS NOT SHOWN ON THE STRUCTURAL DRAWINGS, OBTAIN PRIOR APPROVAL.
   B. STEEL SUPPORTING OR CONNECTING TO MECHANICAL AND OTHER EQUIPMENT AND ROOF OPENINGS AS SHOWN ON ARCHITECTURAL, MECHANICAL AND/OR ON STRUCTURAL DRAWINGS IS SHOWN FOR BIDDING PURPOSES ONLY. CONTRACTOR IS TO RECONCILE EXACT SIZE AND LOCATION WITH MECHANICAL AND OTHER REQUIREMENTS BEFORE PROCEEDING WITH THIS WORK.
   C. GROUT UNDER BEARING PLATES TO BE NON-METALLIC, NON-SHRINKING TYPE.
   D. STEEL BELOW GRADE TO BE PROTECTED BY A MINIMUM OF 3" OF CONCRETE, 4" OF SOLID MASONRY, OR A FIELD-APPLIED COAT OF ASPHALT-MASTIC PAINT.
   E. PROVIDE 1/4" THICK SETTING PLATES FOR ALL BEAMS AND BEAM LINTELS BEARING ON MASONRY OR CONCRETE WHICH DO NOT REQUIRE A THICKER BEARING PLATE.
   F. PROVIDE HEAVY PLATE WASHERS AT ALL ANCHOR RODS.
   G. FINISH ENDS OF ALL COLUMNS, STIFFENERS AND ALL OTHER MEMBERS IN DIRECT BEARING.
   H. PROVIDE BOLT HOLES FOR WOOD NAILERS AND JOISTS BOLTED TO BEAMS.
   I. PROVIDE ATTACHMENT FOR JOINING EXTENDED JOIST BOTTOM CHORDS.
   J. STEEL IN CONTACT WITH PRESSURE-TREATED LUMBER IS TO BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS WITH A 20 MIL (MIN.) VAPOR BARRIER. BOLTS AND SCREWS THROUGH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316.
   K. PROVIDE MISCELLANEOUS ANGLES OR CHANNELS TO SUPPORT DECK EDGES AROUND COLUMNS THAT EXTEND THROUGH THE DECK.
   L. PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES.
   M. SEE ARCHITECTURAL SECTIONS AND DETAILS FOR ALL MISCELLANEOUS STRUCTURAL STEEL NOT OTHERWISE INDICATED IN THE STRUCTURAL DRAWINGS.

7. FIELD QUALITY CONTROL:
   A. INSPECTION AGENCY IS TO PERFORM INSPECTION OF BOLTED CONNECTIONS PER THE REQUIREMENTS OF AISC SPECIFICATION FOR STRUCTURAL JOINTS.

STEEL JOISTS

1. SPECIFICATIONS:
   A. FABRICATION AND ERECTION TO BE PER SJI REQUIREMENTS.
   B. MANUFACTURER TO BE A MEMBER OF SJI.

2. SUBMITTALS:
   A. SUBMIT ERECTION PLANS AND CONNECTION DETAILS WHICH INDICATE MARK, QUANTITY, TYPE AND LOCATION OF ALL JOISTS AND BRIDGING. DETAILS TO INDICATE CONNECTIONS OF JOISTS AND BRIDGING.
   B. INDICATE PAINT TYPE AND ALL ACCESSORIES REQUIRED FOR A COMPLETE AND PROPER INSTALLATION.

3. BRIDGING:
   A. QUANTITY, LOCATION, AND SPACING IS TO COMPLY WITH THE REQUIREMENTS OF SJI AND IS TO BE PROVIDED AS REQUIRED FOR THE DESIGN WIND UPLIFT LOADS SPECIFIED. PROVIDE HORIZONTAL BRIDGING UNLESS DIAGONAL BRIDGING IS REQUIRED BY SJI FOR THE JOIST TYPE AND SPAN.
   B. DIAGONAL BRIDGING TO BE BOLTED TO THE JOISTS AND AT THEIR POINT OF INTERSECTION.
   C. END BAYS OF DIAGONAL BRIDGING TO BE ANCHORED WITH HORIZONTAL BRIDGING, UNLESS SHOWN OTHERWISE.
   D. HORIZONTAL BRIDGING MAY BE USED IN LIEU OF DIAGONAL BRIDGING IN NO MORE THAN 2 CONSECUTIVE BAYS TO PROVIDE PASSAGE FOR DUCTWORK.
   E. ANCHOR BRIDGING TO INTERSECTING STRUCTURAL STEEL OR MASONRY WALLS.

4. BEARING:
   A. WELD ALL JOISTS TO SUPPORTING STEEL PER SJI REQUIREMENTS. FIELD-BOLT JOISTS AT COLUMN LINES. EXTEND AND STABILIZE THE BOTTOM CHORD OF JOISTS AT COLUMNS, BUT DO NOT BOLT OR WELD UNLESS DETAILED OTHERWISE.
   B. EXTEND ALL JOISTS 1" MINIMUM PAST CENTERLINE OF SUPPORTING MEMBER, WHERE POSSIBLE. BEARINGS TO BE PER DRAWINGS, OR WHERE SPECIAL INSTRUCTION IS NOT GIVEN, ACCORDING TO THE STANDARD SPECIFICATIONS OF SJI.

5. COATINGS:
   A. PAINT ALL JOISTS WITH ONE COAT OF FABRICATORS STANDARD PRIMER UNLESS NOTED OTHERWISE.

6. MISCELLANEOUS:
   A. ADJACENT JOISTS OF THE SAME DEPTH ARE TO HAVE WEB MEMBERS IN LINE TO PERMIT PASSAGE OF MECHANICAL DUCTS.
   B. SEE DRAWINGS FOR SPECIAL BEARING SHOES, EXTENDED ENDS, ETC.
   C. UNLESS NOTED OTHERWISE. DESIGN JOIST TOP CHORD EXTENSIONS FOR THE SAME POUND-PER-LINEAR-FOOT LOAD AS THE MAIN SPAN. SEE PLAN AND DETAILS FOR ADDITIONAL LOADS TO BE APPLIED ON EXTENDED END OF JOIST.
   D. STANDARD JOIST SIZES SHOWN INCLUDE ALL COLLATERAL LOADS (SNOW DRIFT, MECHANICAL EQUIPMENT, ETC.) UNLESS SCHEDULED OR NOTED OTHERWISE.

METAL DECK

1. MATERIALS:
   A. GALVANIZED SHEET STEEL: ASTM A653
   B. ROOF DECK: 1-1/2" DEEP, WIDE RIB, GALVANIZED.

2. BASIS OF DESIGN:
   A. ROOF DECK: BEAM/JOIST SPACINGS SHOWN ON FRAMING PLANS INDICATE MAXIMUM SPACINGS TO SUPPORT ROOF LIVE, SNOW LOADS (INCLUDING DRIFTING), AND WIND LOADS. DECK MANUFACTURER TO SUPPLY DECK CAPABLE OF SUPPORTING MAXIMUM LOADING INDICATED AT BEAM/JOIST SPACINGS PROVIDED. SEE GENERAL STRUCTURAL NOTES, ROOF FRAMING PLAN NOTES, AND ROOF FRAMING PLAN OR SNOW DRIFT PLAN TO OBTAIN THESE VALUES.

3. SPECIFICATIONS:
   A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY THE LATEST REVISIONS OF:
      1. AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
      2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.
      3. SDI "DESIGN MANUAL FOR FLOOR DECK AND ROOF DECKS".

4. CONNECTIONS:
   A. DECK TO STRUCTURAL STEEL OR JOISTS: 5/8" DIAMETER PUDDLE WELDS.
   B. SIDE LAP FASTENING: #10 SCREWS.
   C. ROOF DECK FASTENING TO RESIST A GROSS UPLIFT OF 30 PSF MINIMUM.

5. FINISH:
   A. GALVANIZED: CONFORM TO ASTM A653, G60.

6. MISCELLANEOUS:
   A. UNITS ARE TO BE CONTINUOUS OVER AT LEAST THREE SPANS. WHERE FEWER THAN THREE SPANS ARE NEEDED, GAGE IS TO BE INCREASED AS REQUIRED TO OBTAIN THE SAME DESIGN STRENGTH AS THE THREE-SPAN CONDITION. END LAPS ARE ONLY BE LOCATED OVER SUPPORTS.
   B. FIELD CUTTING TO BE PERFORMED WITH A SAW.
   C. METAL DECK SHOULD BE PROTECTED FROM CORROSION FROM PRESERVATIVE CHEMICALS IN PRESSURE-TREATED LUMBER WITH A MINIMUM 20 MIL VAPOR BARRIER. ALL FASTENERS AND CONNECTORS IN CONTACT WITH PRESSURE-TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 AND ASTM A123 WITH A MINIMUM G185 COATING.
   D. PROVIDE ADDITIONAL SUPPORT FOR ALL DECK OPENINGS THAT ARE EQUAL TO OR GREATER THAN 12" IN WIDTH OR DIAMETER. NOT ALL DECK OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. COORDINATE SIZE AND LOCATION WITH ARCHITECTURAL, MECHANICAL, PLUMBING AND OTHER TRADES.

COLD FORMED METAL FRAMING

1. MATERIALS:
   A. COLD-FORMED METAL STUDS AND JOISTS SHOWN ON THE CONTRACT DOCUMENTS ARE DESIGNATED BY "DEPTH", "SHAPE", "WIDTH", AND "THICKNESS" AS FOLLOWS:
      1. DEPTH: 362 (3-5/8"), 600 (6"), 800 (8"), ETC.
      2. SHAPE: S (C-SHAPE), T (TRACK), U (CHANNEL)
      3. WIDTH: 125 (1-1/4"), 162 (1-5/8"), 200 (2"), ETC.
      4. THICKNESS: -43 (18 GA.), -54 (16 GA.), -68 (14 GA.), -97 (12 GA.)
      EXAMPLE: 600S162-54 = 6" C-SHAPE, 1 5/8" FLANGE, 16 GA.
   B. ALL 18 GA AND LIGHTER STUDS TO BE 33 KSI MATERIAL; ALL 16 GA AND HEAVIER STUDS TO BE 50 KSI MATERIAL.
   C. ALL TRACKS AND ACCESSORIES: FY = 33 KSI MINIMUM.

2. SPECIFICATIONS:
   A. WELDING PERSONNEL AND PROCEDURES ARE TO BE QUALIFIED PER AWS. DESIGN, FABRICATION, AND ERECTION TO BE GOVERNED BY LATEST REVISIONS OF:
      1. AISI "SPECIFICATION OF THE DESIGN OF COLD-FORMED STEEL STRUCTURAL MEMBERS."
      2. STRUCTURAL WELDING CODE, AWS D1.3 OF THE AMERICAN WELDING SOCIETY.

3. SUBMITTALS:
   A. SUBMIT MANUFACTURER'S STANDARD PRODUCT DATA AND INSTALLATION INSTRUCTIONS FOR EACH TYPE OF COLD-FORMED METAL FRAMING AND ACCESSORY REQUIRED.
   B. SUBMIT FULLY DIMENSIONED ERECTION PLANS AND CONNECTION DETAILS INDICATING ALL COMPONENT AND MEMBER LOCATIONS, ORIENTATION, AND LAYOUT. PLANS TO INCLUDE MEMBER SIZES, TYPES, GAGE DESIGNATIONS, QUANTITY AND SPACING. ALSO INCLUDE DETAILS OF CONNECTIONS NOTED SCREW TYPES, QUANTITIES, LOCATIONS, WELD SIZES, LENGTHS, AND LOCATIONS, AND ADDITIONAL STRAPPING, BRACING, OR ACCESSORIES REQUIRED FOR A PROPER AND COMPLETE INSTALLATION.

4. CONNECTIONS:
   A. FIELD CONNECTIONS MAY BE EITHER WELDED OR SCREWED, EXCEPT AS SPECIFICALLY DETAILED OTHERWISE.
   B. WELD SIZE TO BE 1/8" WITH AWS TYPE 6013 OR 7014 ROD.
   C. EXCEPT AS NOTED OTHERWISE, MECHANICAL FASTENERS TO BE SELF TAPPING #10-16 SCREWS.

5. FINISH:
   A. ALL MATERIAL TO BE GALVANIZED COATED IN ACCORDANCE WITH ASTM A525 G-60.
   B. TOUCH-UP FIELD WELDS WITH ZINC RICH PAINT.

6. MISCELLANEOUS:
   A. ALL FIELD CUTTING TO BE PERFORMED WITH A SAW.
   B. TRACKS TO BE SECURELY ANCHORED TO SUPPORTING STRUCTURE WITH WELD OR SCREW AT EACH SIDE OF TRACKS.
   C. PROVIDE HORIZONTAL BRIDGING AT 6'-0" O.C. MAX. FOR ALL STUD WALLS UNLESS NOTED OTHERWISE. BRIDGING IS NOT REQUIRED FOR PORTIONS OF INTERIOR NON-LOADBEARING STUD WALLS WHERE BOTH SIDES ARE FACED WITH SHEATHING.
   D. END BLOCKING OR CONTINUOUS TRACK IS TO BE PROVIDED WHERE JOIST ENDS ARE NOT OTHERWISE RESTRAINED FROM ROTATION.
   E. WEB PUNCH-OUTS FOR BEAMS, JOISTS, AND RAFTERS ARE TO BE LOCATED A MINIMUM OF 10" AWAY FROM BEARING AND CONCENTRATED LOAD LOCATIONS. IF A PUNCH-OUT FALLS WITHIN 10" OF THESE LOCATIONS, PROVIDE REINFORCEMENT FOR THE MEMBER AS REQUIRED. ALTERNATELY, UN-PUNCHED SECTIONS MAY BE PROVIDED FOR BEAMS, JOISTS, AND RAFTERS.
   F. EACH MEMBER OF MULTIPLE MEMBER COLUMNS ARE TO BE SCREWED TOGETHER USING FULL-HEIGHT TRACKS AND #10 SCREWS AT 12" O.C. ALTERNATELY, MULTIPLE MEMBER COLUMNS MAY BE WELDED TOGETHER WITH A 1" WELD AT 18" ON CENTER, EACH SIDE, EACH PIECE, FOR THE FULL LENGTH OF THE COLUMN.

POST-INSTALLED ANCHOR SYSTEMS

1. GENERAL:
   A. LISTED ANCHOR PRODUCTS PROVIDED BELOW ARE NOT TO BE USED AS INTERCHANGEABLE PRODUCTS. EACH ANCHOR HAS DEFINED CAPACITIES BASED UPON TESTED PERFORMANCE WITH APPLICABLE SAFETY FACTORS AND WILL VARY ACROSS MANUFACTURERS. TYPES OF ANCHORS INDICATED THROUGHOUT THE DESIGN DOCUMENTS ARE DETAILED FOR THEIR SPECIFIC PURPOSE AND CAPACITY. SUBSTITUTION OF ANCHORS FROM THOSE SPECIFIED ARE ONLY ALLOWED AFTER ENGINEER REVIEW AND APPROVAL OR AMENDMENT FROM WRITTEN REQUEST BY THE CONTRACTOR.
   B. PROVIDE ANCHORAGE MATCHING MANUFACTURER, TYPE, DIAMETER, EMBEDMENT, AND BASE MATERIAL AS INDICATED IN THE DOCUMENTS.
   C. ALL POST-INSTALLED ANCHORS TO BE HAMMER DRILLED. FOLLOW ALL HOLE CLEANING AND INSTALLATION INSTRUCTIONS AS STIPULATED BY THE ANCHOR MANUFACTURER. FOLLOW ALL OSHA GUIDELINES FOR CONCRETE DRILLING AS IT PERTAINS TO SILICA DUST.
   D. INSTALLATION OF ADHESIVE ANCHORS MUST BE PERFORMED BY PERSONNEL TRAINED TO INSTALL ADHESIVE ANCHORS THROUGH MANUFACTURER TRAINING PROGRAMS.
   E. INSTALLATION OF ADHESIVE ANCHORS IN THE HORIZONTAL OR UPWARDLY INCLINED ORIENTATION AND WHERE SUPPORTING SUSTAINED TENSION LOADS SHALL BE INSTALLED BY CERTIFIED PERSONNEL BY ACI/CRSI INSTALLATION PROGRAMS.
   F. MINIMUM CONCRETE AGE FOR POST-INSTALLED ADHESIVE ANCHORS SHALL BE NOT LESS THAN 28 DAYS.
   G. ALL ANCHORS IN CONTACT WITH PRESSURE TREATED LUMBER ARE TO BE HOT DIPPED GALVANIZED PER ASTM A153 WITH A MINIMUM G185 COATING OR STAINLESS STEEL WITH CHEMICAL COMPOSITION CONFORMING TO AISI 303/304 OR AISI 316. FASTENERS AND CONNECTORS ARE TO BE OF THE SAME MATERIAL, STAINLESS STEEL OR HOT DIPPED GALVANIZED, DO NOT MIX MATERIALS.
   H. MINIMUM EMBEDMENT FOR MECHANICAL EXPANSION ANCHORAGE SYSTEMS IS TO BE 7 BOLT DIAMETERS. MINIMUM EMBEDMENT FOR SCREW ANCHORAGE AND ADHESIVE ANCHORAGE SYSTEMS IS TO BE 9 BOLT DIAMETERS.

2. ANCHORAGE TO CONCRETE
   A. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI OR +SD2 WEDGE EXPANSION ANCHOR
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR
      3. HILTI KWIK BOLT TZ2 EXPANSION ANCHOR
      4. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR
   B. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR
      2. HILTI HLC SLEEVE ANCHOR
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR
   C. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. DEWALT SCREW-BOLT+
      2. HILTI KWIK HUS-EZ SCREW ANCHOR
      3. SIMPSON TITEN HD SCREW ANCHOR
   D. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC200+ ADHESIVE FOR REINFORCING BAR
      2. DEWALT PURE50+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      3. DEWALT PURE110+ ADHESIVE FOR THREADED ROD AND REINFORCING BAR
      4. HILTI HIT-HY 200v3 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS.
      5. HILTI HIT-RE 500 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      6. HILTI HIT-RE 100 ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      7. SIMPSON AT-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR.
      8. SIMPSON SET-3G ADHESIVE FOR THREADED ROD AND REINFORCING BAR.

3. ANCHORAGE TO CONCRETE MASONRY OR BRICK MASONRY AS INDICATED:
   A. FOLLOW ALL MANUFACTURERS INSTALLATION INSTRUCTIONS IN REGARD TO LOCATION OF ANCHORS AWAY FROM HEAD JOINTS, MINIMUM EDGE DISTANCES, AND MINIMUM ANCHOR SPACING.
   B. ACCEPTABLE MECHANICAL EXPANSION ANCHORAGE SYSTEMS:
      1. DEWALT POWER STUD +SDI, SD4/SD6 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. HILTI KWIK BOLT 3 EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      3. SIMPSON STRONG-BOLT 2 WEDGE EXPANSION ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   C. ACCEPTABLE MECHANICAL SLEEVE ANCHORAGE SYSTEMS: (MAY NOT BE USED TO SECURE MAIN BUILDING FRAME COMPONENTS)
      1. DEWALT LOK-BOLT AS SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      2. HILTI HLC SLEEVE ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY, AND SOLID BRICK MASONRY
      3. SIMPSON SLEEVE-ALL SLEEVE ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
   D. ACCEPTABLE MECHANICAL SCREW ANCHORAGE SYSTEMS:
      1. HILTI KWIK HUS-EZ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY
      2. DEWALT SCREW-BOLT+ SCREW ANCHOR IN GROUT FILLED OR SOLID CONCRETE MASONRY AND BRICK MASONRY
      3. SIMPSON TITEN HD SCREW ANCHOR IN GROUT FILLED, SOLID, OR HOLLOW CONCRETE MASONRY
   E. ACCEPTABLE ADHESIVE ANCHORAGE SYSTEMS:
      1. DEWALT AC100+ GOLD FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY CONSTRUCTION.
      2. HILTI HIT-HY 270 ADHESIVE FOR THREADED ROD, REINFORCING BAR, AND HILTI SPECIFIC ROD AND INSERT SYSTEMS IN GROUT FILLED OR SOLID CONCRETE MASONRY CONSTRUCTION. USE WITH SCREEN TUBES IN HOLLOW MASONRY, MULIT-WYTHE MASONRY, OR BRICK WITH HOLES CONSTRUCTION.
      3. SIMPSON SET-XP ADHESIVE FOR THREADED ROD AND REINFORCING BAR IN GROUT FILLED, SOLID, AND HOLLOW CONCRETE MASONRY.

IN ACCORDANCE WITH CHAPTER 17 OF THE REFERENCE BUILDING CODE, THE OWNER SHALL EMPLOY INSPECTION AGENCIES TO PERFORM SPECIAL INSPECTIONS DURING CONSTRUCTION INCLUDING INSPECTIONS OF SHOP-FABRICATED ITEMS WHEN APPLICABLE. ALL INSPECTION AGENCIES, INCLUDING FABRICATION FACILITIES, WHEN REQUIRED, SHALL BE QUALIFIED AND APPROVED BY THE BUILDING OFFICIAL. REFER TO OTHER DISCIPLINES FOR SPECIAL INSPECTIONS OF NON-STRUCTURAL SYSTEMS.

TABLE 1 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR SOILS — TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATIONS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.	---	X
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACHED PROPER MATERIAL.	---	X
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS.	---	X
4. VERIFY USE OF PROPER MATERIALS, DENSITIES, AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.	X	---
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF CONCRETE CONSTRUCTION — TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSPECT REINFORCEMENT AND VERIFY PLACEMENT.	---	X
2. INSPECT ANCHORS CAST IN CONCRETE.	---	X
3. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		
A. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	X	---
B. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 4A.	---	X
4. VERIFY USE OF REQUIRED DESIGN MIX.	---	X
5. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AND DETERMINE THE TEMPERATURE OF THE CONCRETE.	X	---
6. INSPECT CONCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	---	X
7. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	---	X
8. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMBER BEING FORMED.	---	X

'LEVEL B' QUALITY ASSURANCE REQUIRED SPECIAL INSPECTIONS AND TESTS OF MASONRY CONSTRUCTION

MINIMUM TESTS

VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) AS DELIVERED TO THE PROJECT SITE IN ACCORDANCE WITH ARTICLE 1.5.B.1.b.3 FOR SELF CONSOLIDATING GROUT

VERIFICATION OF f'_m AND f'_{AAC} IN ACCORDANCE WITH ARTICLE 1.4B PRIOR TO CONSTRUCTION, EXCEPT WHERE SPECIFICALLY EXEMPTED BY THE CODE.

MINIMUM SPECIAL INSPECTION — TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. VERIFY COMPLIANCE WITH THE APPROVED SUBMITTALS.	---	X
2. AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. PROPORTIONS OF SITE-PREPARED MORTAR.	---	X
B. CONSTRUCTION OF MORTAR JOINTS.	---	X
C. LOCATION OF REINFORCEMENT AND CONNECTORS.	---	X
3. PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:		
A. GROUT SPACE.	---	X
B. GRADE, TYPE, AND SIZE OF REINFORCEMENT AND ANCHOR BOLTS.	---	X
C. PLACEMENT OF REINFORCEMENT AND CONNECTORS.	---	X
D. PROPORTIONS OF SITE-PREPARED GROUT.	---	X
E. CONSTRUCTION OF MORTAR JOINTS.	---	X
4. VERIFY DURING CONSTRUCTION:		
A. SIZE AND LOCATION OF STRUCTURAL ELEMENTS.	---	X
B. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION.	---	X
C. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)	---	X
D. PLACEMENT OF GROUT.	---	X
5. OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS.	---	X

REQUIRED SPECIAL INSPECTIONS AND TESTS OF OPEN-WEB STEEL JOISTS AND JOIST GIRDERS — TYPE	CONTINUOUS SPECIAL INSPECTION	PERIODIC SPECIAL INSPECTION
1. INSTALLATION OF OPEN-WEB STEEL JOISTS		
A. END CONNECTIONS — WELDED OR BOLTED.	---	X
2. BRIDGING — HORIZONTAL OR DIAGONAL		
A. STANDARD BRIDGING.	---	X
B. BRIDGING THAT DIFFERS FROM THE SJI SPECIFICATIONS.	---	X

TABLE 2 STATEMENT OF SPECIAL INSPECTIONS FOR STRUCTURAL DISCIPLINE

REQUIRED SPECIAL INSPECTIONS AND TESTS FOR STEEL DECK — TYPE	PERFORM	OBSERVE
1. INSPECTION OR EXECUTION TASKS PRIOR TO DECK PLACEMENT:		
A. VERIFY COMPLIANCE OF MATERIALS (DECK AND DECK ACCESSORIES) WITH CONSTRUCTION DOCUMENTS, INCLUDING PROFILES, MATERIAL PROPERTIES, AND BASE METAL THICKNESS.	X	---
B. DOCUMENT ACCEPTANCE OR REJECTION OF DECK AND DECK ACCESSORIES.	X	---
2. INSPECTION OR EXECUTION TASKS AFTER DECK PLACEMENT:		
A. VERIFY COMPLIANCE OF DECK AND ALL DECK ACCESSORIES INSTALLATION WITH CONSTRUCTION DOCUMENTS.	X	---
B. VERIFY DECK MATERIALS ARE REPRESENTED BY THE MILL CERTIFICATIONS THAT COMPLY WITH THE CONSTRUCTION DOCUMENTS.	X	---
C. DOCUMENT ACCEPTED OR REJECTION OF INSTALLATION OF DECK AND DECK ACCESSORIES.	X	---
3. INSPECTION OR EXECUTION TASKS PRIOR TO WELDING		
A. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	---	X
B. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	---	X
C. MATERIAL IDENTIFICATION (TYPE/GRADE).	---	X
D. CHECK WELDING EQUIPMENT.	---	X
4. INSPECTION OR EXECUTION TASKS DURING WELDING:		
A. USE OF QUALIFIED WELDERS.	---	X
B. CONTROL AND HANDLING OF WELDED CONSUMABLES	---	X
C. ENVIRONMENTAL CONDITIONS (WIND SPEED, MOISTURE, TEMPERATURE).	---	X
D. WPS FOLLOWED	---	X
5. INSPECTION OR EXECUTION TASKS AFTER WELDING:		
A. VERIFY SIZE AND LOCATION OF WELDS, INCLUDING SUPPORT, SIDELAP, AND PERIMETER WELDS.	X	---
B. WELDS MEET VISUAL ACCEPTANCE CRITERIA.	X	---
C. VERIFY REPAIR ACTIVITIES.	X	---
D. DOCUMENT ACCEPTANCE OR REJECTION OF WELDS	X	---
6. INSPECTION OR EXECUTION TASKS PRIOR TO MECHANICAL FASTENING:		
A. MANUFACTURER INSTALLATION INSTRUCTIONS ARE AVAILABLE FOR MECHANICAL FASTENERS.	---	X
B. PROPER TOOLS AVAILABLE FOR FASTENER INSTALLATION.	---	X
C. PROPER STORAGE FOR MECHANICAL FASTENERS.	---	X
7. INSPECTION OR EXECUTION TASKS DURING MECHANICAL FASTENING:		
A. FASTENERS ARE POSITIONED AS REQUIRED.	---	X
B. FASTENERS ARE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.	---	X
8. INSPECTION OR EXECUTION TASKS AFTER MECHANICAL FASTENING:		
A. CHECK SPACING, TYPE, AND INSTALLATION OF SUPPORT FASTENERS.	X	---
B. CHECK SPACING, TYPE, AND INSTALLATION OF SIDELAP FASTENERS.	X	---
C. CHECK SPACING, TYPE, AND INSTALLATION OF PERIMETER FASTENERS.	X	---
D. VERIFY REPAIR ACTIVITIES.	X	---
E. DOCUMENT ACCEPTANCE OR REJECTION OF MECHANICAL FASTENERS.	X	---

STEEL DECK INSPECTION NOTES:
1. "PERFORM" — SHALL MEAN TO PERFORM THESE TASKS PRIOR TO FINAL ACCEPTANCE FOR EACH ITEM OR ELEMENT.
2. "OBSERVE" — SHALL MEAN TO INSPECT THESE ITEMS ON AN INTERMITTENT BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE INSPECTIONS. FREQUENCY OF OBSERVATIONS SHALL BE ADEQUATE TO CONFIRM THAT THE WORK HAS BEEN PERFORMED IN ACCORDANCE WITH THE APPLICABLE DOCUMENTS. IN THE EVENT THAT OBSERVATIONS DETERMINE THAT THE MATERIALS AND/OR WORKMANSHIP ARE NOT IN CONFORMANCE WITH THE APPLICABLE DOCUMENTS, ADDITIONAL INSPECTIONS SHALL BE PERFORMED TO DETERMINE THE EXTENT OF NON-CONFORMANCE.

REQUIRED SPECIAL INSPECTIONS AND TESTS OF STRUCTURAL STEEL CONSTRUCTION — TYPE	PERFORM	OBSERVE
1. INSPECTION TASKS PRIOR TO WELDING:		
A. WELDER QUALIFICATION RECORDS AND CONTINUITY RECORDS.	---	X
B. WELDING PROCEDURE SPECIFICATIONS (WPS) AVAILABLE.	X	---
C. MANUFACTURER CERTIFICATIONS FOR WELDING CONSUMABLES AVAILABLE.	X	---
D. MATERIAL IDENTIFICATION (TYPE/GRADE)	---	X
E. WELDER IDENTIFICATION SYSTEM.	---	X
F. FIT-UP OF GROOVE WELDS (INCLUDING JOINT GEOMETRY):		
• JOINT PREPARATIONS.	---	X
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	---	X
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X
• BACKING TYPE AND FIT (IF APPLICABLE).	---	X
G. FIT-UP OF CJP GROOVE WELDS OF HSS T-, Y-, AND K-JOINTS WITHOUT BACKING (INCLUDING JOINT GEOMETRY):		
• JOINT PREPARATIONS.	---	X
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	---	X
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X
H. CONFIGURATION AND FINISH OF ACCESS HOLES.	---	X
I. FIT-UP OF FILLET WELDS:		
• DIMENSIONS (ALIGNMENT, ROOT OPENING, ROOT FACE, BEVEL.	---	X
• CLEANLINESS (CONDITION OF STEEL SURFACES).	---	X
• TACKING (TACK WELD QUALITY AND LOCATION).	---	X
2. INSPECTION TASKS DURING WELDING:		
A. CONTROL AND HANDLING OF WELDING CONSUMABLES.		
• PACKAGING	---	X
• EXPOSURE CONTROL	---	X
B. NO WELDING OVER CRACKED TACK WELDS.	---	X
C. ENVIRONMENTAL CONDITIONS:		
• WIND SPEED WITHIN LIMITS	---	X
• PRECIPITATION AND TEMPERATURE	---	X
D. WPS FOLLOWED:		
• SETTINGS ON WELDING EQUIPMENT	---	X
• TRAVEL SPEED	---	X
• SELECTED WELDING MATERIALS	---	X
• SHIELDING GAS TYPE/FLOW RATE	---	X
• PREHEAT APPLIED	---	X
• INTERPASS TEMPERATURE MAINTAINED (MIN./MAX.)	---	X
• PROPER POSITION (F, V, H, OH)	---	X
• TRAVEL SPEED	---	X
E. WELDING TECHNIQUES		
• INTERPASS AND FINAL CLEANING	---	X
• EACH PASS WITHIN PROFILE LIMITATIONS	---	X
• EACH PASS MEETS QUALITY REQUIREMENTS	---	X
F. PLACEMENT AND INSTALLATION OF STEEL HEADED STUD ANCHORS	X	---
3. INSPECTION TASKS AFTER WELDING:		
A. WELDS CLEANED.	---	X
B. SIZE, LENGTH, AND LOCATION OF WELDS	X	---
C. WELDS MEET VISUAL ACCEPTANCE CRITERIA:		
• CRACK PROHIBITION	X	---
• WELD /BASE-METAL FUSION	X	---
• CRATER CROSS SECTION	X	---
• WELD PROFILES	X	---
• WELD SIZE	X	---
• UNDERCUT	X	---
• POROSITY	X	---
D. ARC STRIKES.	X	---
E. K-AREA	X	---
F. WELD ACCESS HOLES IN ROLLED HEAVY SHAPES AND BUILT-UP HEAVY SHAPES.	X	---
G. BACKING REMOVED AND WELD TABS REMOVED (IF REQUIRED).	X	---
H. REPAIR ACTIVITIES.	X	---
I. DOCUMENT ACCEPTANCE OR REJECTION OF WELDED JOINT OR MEMBER.	X	---
J. NO PROHIBITED WELDS HAVE BEEN ADDED WITHOUT THE APPROVAL OF THE EOR.	---	X
K. NON-DESTRUCTIVE TESTING FOR COMPLETE-JOINT-PENETRATION (CJP) WELDS:		
• UT SHALL BE PERFORMED ON ALL CJP JOINTS IN MATERIAL 5/16" AND GREATER.	X	---
4. INSPECTION TASKS PRIOR TO BOLTING FOR PRETENSIONED OR SLIP CRITICAL BOLTED JOINTS:		
A. MANUFACTURER'S CERTIFICATIONS AVAILABLE FOR FASTENER MATERIALS.	X	---
B. FASTENERS MARKED IN ACCORDANCE WITH ASTM REQUIREMENTS.	---	X
C. CORRECT FASTENERS SELECTED FOR THE JOINT DETAIL (GRADE, TYPE, BOLT LENGTH IF THREADS ARE TO BE EXCLUDED FROM SHEAR PLANE).	---	X
D. CORRECT BOLTING PROCEDURE SELECTED FOR JOINT DETAIL.	---	X
E. CONNECTING ELEMENTS, INCLUDING THE APPROPRIATE FAYING SURFACE CONDITION AND HOLE PREPARATION, IF SPECIFIED, MEET APPLICABLE REQUIREMENTS.	---	X
F. PRE-INSTALLATION VERIFICATION TESTING BY INSTALLATION PERSONNEL OBSERVED AND DOCUMENTED FOR FASTENER ASSEMBLIES AND METHODS USED.	---	X
G. PROTECTED STORAGE PROVIDED FOR BOLTS, NUTS, WASHERS, AND OTHER FASTENER COMPONENTS.	---	X
5. INSPECTION TASKS DURING BOLTING FOR PRETENSIONED OR SLIP CRITICAL BOLTED JOINTS:		
A. FASTENER ASSEMBLIES PLACED IN ALL HOLES AND WASHERS AND NUTS ARE POSITIONED AS REQUIRED.	---	X
B. JOINT BROUGHT TO THE SNUG-TIGHT CONDITION PRIOR TO THE PRETENSIONING OPERATION.	---	X
C. FASTENER COMPONENT NOT TURNED BY THE WRENCH PREVENTED FROM ROTATING.	---	X
D. FASTENERS ARE PRETENSIONED IN ACCORDANCE WITH THE RCSC SPECIFICATION, PROGRESSING SYSTEMATICALLY FROM THE MOST RIGID POINT TOWARD THE FREE EDGES.	---	X
6. INSPECTION TASKS AFTER ALL BOLTING:		
A. DOCUMENT ACCEPTANCE OR REJECTION OF BOLTED CONNECTIONS.	X	---
7. ANCHOR ROD PLACEMENT		
A. INSPECTION DURING PLACEMENT OF ANCHOR RODS AND OTHER EMBEDMENTS SUPPORTING STRUCTURAL STEEL FOR COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS (ANCHOR DIAMETER, GRADE, TYPE, AND LENGTH OF THE ANCHOR ROD OR EMBEDED ITEM AND THE EXTENT OR DEPTH OF EMBEDMENT INTO THE CONCRETE) PRIOR TO PLACEMENT OF CONCRETE.	---	X
8. INSPECTION OF THE FABRICATED STEEL OR ERECTED STEEL FRAME IN COMPLIANCE WITH THE DETAILS SHOWN ON THE CONSTRUCTION DOCUMENTS.	---	X

STRUCTURAL STEEL INSPECTION NOTES:
1. "PERFORM" — THESE TASKS SHALL BE PERFORMED FOR EACH WELDED/BOLTED JOINT OR MEMBER
2. "OBSERVE" — THE INSPECTOR SHALL OBSERVE THESE ITEMS ON A RANDOM BASIS. OPERATIONS NEED NOT BE DELAYED PENDING THESE.

ABBREVIATIONS

AB	ANCHOR BOLT
ADD'L	ADDITIONAL
ALUM	ALUMINUM
ARCH	ARCHITECTURAL
B/ or BO	BOTTOM OF
BFB	BOTTOM FLANGE BRACE
BLDG	BUILDING
BM	BEAM
BOT	BOTTOM
CFMF	COLD-FORMED METAL FRAMING
CFMT	COLD-FORMED METAL TRUSS
CJ	CONTROL OR CONSTRUCTION JOINT
CLR	CLEAR
CM	CONSTRUCTION MANAGER
CMU	CONCRETE MASONRY UNIT
COL	COLUMN
CONC	CONCRETE
CONT	CONTINUOUS
COORD	COORDINATE
CY	CUBIC YARD
DBL	DOUBLE
DEMO	DEMOLISH OR DEMOLITION
DET	DETAIL
DIA	DIAMETER
DIAG	DIAGONAL
DIM	DIMENSION
DWG	DRAWING
EA	EACH
EJ	EXPANSION JOINT
ENG	ENGINEER
EW	EACH WAY
EXP	EXPANSION
FDN	FOUNDATION
FIN	FINISH OR FINISHED
FLR	FLOOR
FTG	FOOTING
FRTW	FIRE-RETARDANT TREATED WOOD
FV	FIELD VERIFY
GA	GAGE
GALV	GALVANIZE
GC	GENERAL CONTRACTOR
HC	HOLLOW CORE
HORIZ	HORIZONTAL
ID	INSIDE DIMENSION
IF	INSIDE FACE
INT	INTERIOR
JST	JOIST
JT	JOINT
KB	KICKER BRACE
L	ANGLE
LGMF	LIGHT GAGE METAL FRAMING
LLBB	LONG LEG BACK-TO-BACK
LLH	LONG LEG HORIZONTAL
LLV	LONG LEG VERTICAL
MAS	MASONRY
MAX	MAXIMUM
MIN	MINIMUM
MTL	METAL
N	NORTH
NA	NOT APPLICABLE
NIC	NOT IN CONTRACT
NOM	NOMINAL
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OH	OVERHEAD
OPP	OPPOSITE
OPNG	OPENING
OSB	ORIENTED STRAND BOARD
PAF	POWDER ACTUATED FASTENERS
PC	PRECAST
PEMB	PRE-ENGINEERED METAL BUILDING
PERP	PERPENDICULAR
PSI	POUNDS PER SQUARE INCH
PSF	POUNDS PER SQUARE FOOT
REINF	REINFORCING
REQ'D	REQUIRED
SCHED	SCHEDULE
SECT	SECTION
SER	STRUCTURAL ENGINEER OF RECORD
SF	SQUARE FOOT
SL	SLOPED
SLBB	SHORT LEG BACK-TO-BACK
SPEC	SPECIFICATION
SQ	SQUARE
SS	STAINLESS STEEL
STD	STANDARD
SY	SQUARE YARD
SYM	SYMMETRICAL
T/ or TO	TOP OF
T&B	TOP AND BOTTOM
TEMP	TEMPORARY OR TEMPERATURE
T&G	TONGUE AND GROOVE
TYP	TYPICAL
UN	UNLESS NOTED
UNO	UNLESS NOTED OTHERWISE
VB	VAPOR BARRIER
VERT	VERICAL
W	WIDE FLANGE
W/	WITH
W/O	WITHOUT
WT	WEIGHT
WWF	WELDED WIRE FABRIC
YD	YARD

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

3,000 psi & 3,500 psi CONCRETE UNCOATED REINFORCING BARS (TOP BARS / OTHER BARS)

BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER
#4	3'-1" / 2'-4"	3'-1" / 2'-4"
#5	3'-10" / 3'-0"	3'-10" / 3'-0"
#6	4'-8" / 3'-7"	4'-8" / 3'-7"
#7	7'-6" / 5'-9"	6'-9" / 5'-2"
#8	9'-3" / 7'-1"	7'-9" / 5'-11"
#9	11'-2" / 8'-7"	8'-8" / 6'-8"
#10	13'-6" / 10'-4"	9'-10" / 7'-6"
#11	15'-10" / 12'-2"	10'-11" / 8'-4"

LAP SPLICE SCHEDULE FOR CONCRETE REINFORCING

4,000 psi & 4,500 psi CONCRETE UNCOATED REINFORCING BARS (TOP BARS / OTHER BARS)

BAR SIZE	3/4" CLR.	1 1/2" CLR. AND GREATER
#4	2'-8" / 2'-1"	2'-8" / 2'-1"
#5	3'-4" / 2'-7"	3'-4" / 2'-7"
#6	4'-0" / 3'-1"	4'-0" / 3'-1"
#7	6'-6" / 5'-0"	5'-10" / 4'-6"
#8	8'-0" / 6'-2"	6'-8" / 5'-2"
#9	9'-8" / 7'-6"	7'-6" / 5'-10"
#10	11'-8" / 9'-0"	8'-6" / 6'-6"
#11	13'-8" / 10'-6"	9'-5" / 7'-3"

1. TOP BARS / OTHER BARS — TOP BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12" OF CONCRETE CAST BELOW THE BAR.
2. BAR SPACING TO BE A MINIMUM OF THREE DIAMETERS UNLESS NOTED OR SCHEDULED OTHERWISE.
3. APPLICABLE ONLY FOR 60 KSI STEEL AND NORMAL WEIGHT CONCRETE.
4. IN LIEU OF LAP SPLICING, BARS MAY BE SPLICED BY MECHANICAL MEANS WHICH DEVELOP AT LEAST 125% OF THE BAR'S SPECIFIED YIELD STRENGTH.

REINFORCING COVER/TOLERANCE (#3 - #11 BARS)

EXPOSURE CONDITION	MIN. COVER (U.N.O.)	PLACEMENT TOLERANCE
CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH:	3"	0", +3"
EXPOSED TO EARTH OR WEATHER - #5 AND SMALLER BARS: - #6 AND LARGER BARS:	1-1/2" 2"	-1/4", +1/2" -1/4", +1/2"
NEITHER EXPOSED TO WEATHER, NOR IN CONTACT WITH GROUND - SLABS AND WALLS: - BEAMS, COLUMNS, & PIERS: (TO TIES OR STIRRUPS)	3/4" 1-1/2"	-1/4", +3/8" -1/4", +1/2"

"-" INDICATES TOLERANCE TOWARDS MEMBER FACE.
"+" INDICATES TOLERANCE AWAY FROM MEMBER FACE.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419.586.7771 WWW.FHAI.COM
128 W Market St, Celina, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO — STANLEY N. FULLER — E-67148 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JPK (R25)
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

Jezerinac Geers Structural Engineering

PROJECT NUMBER:	24.27.527
DESIGNED BY:	KRA
DRAWN BY:	JPK (R25)
CHECKED BY:	SNF
DOCUMENT STATUS:	☐ PROGRESS ■ PERMIT ■ BIDDING ☐ CONSTRUCTION

GENERAL STRUCTURAL INFORMATION

S-001

Autodesk Docs://WSU-LC - Workforce Development Project/24.27.527 - WSU Trenery Hall Addition - Struct (R25).rvt
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128 W Market St, Celina, OH 45822

EX WTR MH
RIM: 883.07
8" (NW) INV: 867.57
BOTTOM: 876.07

EX SAN MH
RIM: 882.10

EX SAN MH
RIM: 881.14
8" (E) INV: 874.14
8" (SW) INV: 874.29
8" (NW) INV: 874.24
12" (SE) INV: 874.24
12" (N) INV: 874.14

EX SAN MH (GREASE TRAP)
RIM: 880.55
6" (NE) INV: 875.15

EX CB
RIM: 877.17
8" (W) INV: 874.22
8" (SE) INV: 874.17

EX CB
RIM: 880.646
6"(W) INV: 887.996
12"(E) INV: 875.446

EX TRENCH DRAIN
CONNECTS TO EX. 8" PIPE
2 COLLECTION POINTS
REMOVE EX. TRENCH DRAIN
SEE PLUMBING PLANS FOR
STORM REPLACEMENT

REMOVE MH AND PIPE TO SOUTH
CAP END OF PIPE TO NORTH

EX SAN MH
RIM: 879.61
12" (NW,S) INV: 874.61
PIPE TO SW DEAD ENDS

SEE SITE PLANS FOR
TRENCH DRAIN
30'-6" HDPE FROM
TRENCH DRAIN TO EX. CB

FFE=878.18

EX CB
RIM: 877.30
4" (S) INV: 875.40
8" (W) INV: 874.35
DO NOT DISTURB

EX CB
RIM: 877.14
8" (NW,E) INV: 874.34
SEE PLUMBING PLANS FOR
4" STORM FROM FOUNDATION
DRAIN TO CB
4" INV (S) = 875.50 –
CORE INTO CB & SEAL
6" INV (N) = 874.34 –
CORE INTO CB & SEAL

EX CB
RIM: 877.22
12" (W) INV: 873.92
12" (E) INV: 873.92
12" (N) INV: 873.92
12" (W) INV: 873.72
DO NOT DISTURB

EX CB
RIM: 877.50
12" (N) INV: 873.20
12" (E) INV: 873.10
18" (SW) INV: 873.10

EX CB
RIM: 876.57
8" (S) INV: 874.47
12" (N) INV: 874.47
DO NOT DISTURB

DO NOT DISTURB
EX CB
RIM: 876.940
12"(SE) INV: 874.540

DO NOT DISTURB
EX CB
RIM: 877.819
8"(W) INV: 876.219
4"(S) INV: 876.469

REMOVE EX. UTILITIES UNDER
BLDG ADDITION. SEE DEMO
AND ELECTRIC PLANS

INV = 874.18
83'-12" HDPE @ 0.78%
TIE INTO PROP. 12" STM
WITH NECESSARY FITTINGS

FFE=878.18

FFE =
878.54

CB#2

106'-12" HDPE @ 0.20%

EX. INV = 873.44
BLIND TIE INTO EX PIPE
WITH NECESSARY FITTINGS

AVOID CONFLICT

YD#1

132'-12" HDPE @ 0.10%

EX SAN MH
RIM: 880.606
8" (W) INV: 875.606
6" (E) INV: 876.406

EX CB
RIM: 880.751
12"(W) INV: 877.851

EX. 36" STM

EX STM MH
RIM: 877.944
36"(N+S)INV: 874.444

DO NOT DISTURB
EX CB
RIM: 877.812
36"(N+S)INV: 873.912

STORM STRUCTURES

YD#1
RIM = 875.50
INV = 873.78

CB#2
RIM = 877.25
INV = 873.65

N

0 20' 40'
SCALE: 1"= 20'

ACCESS Engineering Solutions
www.accessengllc.com | 419-586-1430

CONSTRUCTION DOCUMENTS

STATE OF OHIO
NANCY K. TOBE
67546
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: NKT
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

SITE UTILITIES PLAN

C-104

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WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419.586.7771 WWW.FHAI.COM
128 W Market St, Celina, OH 45822

FFE = 878.54

GENERAL NOTES

— SF —

1. SILT FENCE IS TO BE INSTALLED IN AREAS INDICATED ON THE PLANS. MAX. 6' O.C. SPACING ON POSTS UNLESS OTHERWISE SPECIFIED BY MANUFACTURER. SILT FENCE SHALL REMAIN IN PLACE UNTIL WORK IS COMPLETE OR OWNERS REPRESENTATIVE HAS APPROVED THEIR REMOVAL.

IF

2. SEDIMENT BAGS SHALL BE INSTALLED OVER PROPOSED STRUCTURE INDICATED ON THE PLANS. SEE DETAIL OF BAGS ON DETAIL SHEET. BAGS SHALL REMAIN IN PLACE UNTIL WORK IS COMPLETE OR OWNERS REPRESENTATIVE HAS APPROVED THEIR REMOVAL.

N

0 20' 40'

SCALE: 1"= 20'

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CONSTRUCTION DOCUMENTS

STATE OF OHIO
NANCY K. TOBE
87546
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: NKT

PROJECT NUMBER: FH224102.01/WSU-231035

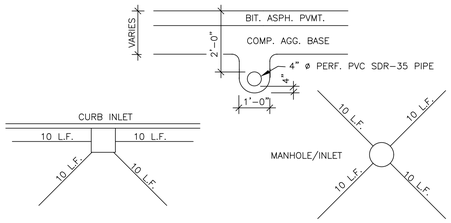
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

EROSION CONTROL PLAN

C-105

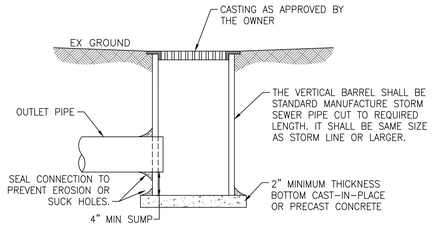
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INCLUDE UNDERDRAINS IN PAVEMENT AND GRASS AREAS. ADJUST TUBING AS REQ'D. TO AVOID SEWER LINES.

UNDERDRAIN LINES

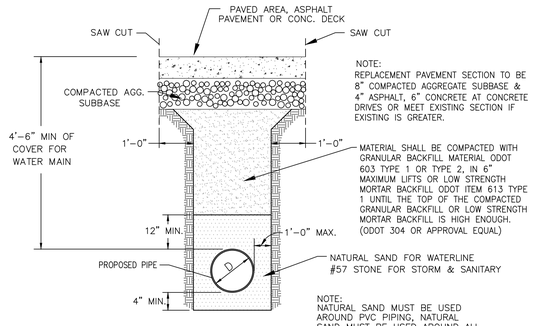
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NOTE:
FOR YARD DRAIN OVER EX 18" OR 24" PIPE, TIE BARREL DIRECTLY INTO EX PIPE

YARD DRAIN DETAIL

NO SCALE



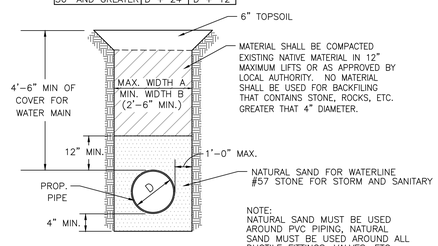
NOTE:
REPLACEMENT PAVEMENT SECTION TO BE 8" COMPACTED AGGREGATE SUBBASE & 4" ASPHALT, 6" CONCRETE AT CONCRETE DRIVES OR MEET EXISTING SECTION IF EXISTING IS GREATER.

NOTE:
ALL CONSTRUCTION WITHIN 5' OF THE PAVEMENT SHALL REQUIRE GRANULAR MATERIAL COMPACTED IN A SUITABLE MANNER.

PAVED AREA / TRENCH DETAIL

NOT TO SCALE

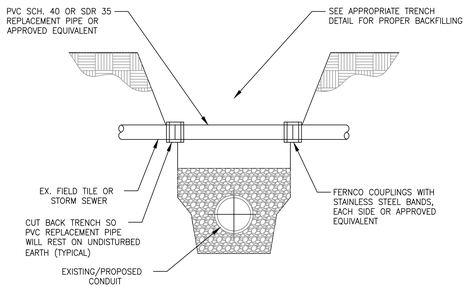
PIPE SIZE	A	B
UP TO 33"	D + 16"	D + 12"
36" AND GREATER	D + 24"	D + 12"



TRENCH & BEDDING DETAIL (NON PAVED)

TRENCH DETAIL NOTES

1. FOR ALL PERFORATED PIPE TRENCHES, USE 12" MINIMUM #57 AGGREGATE ABOVE THE PIPE WITH 12" MINIMUM TOPSOIL ABOVE THAT.
2. TRENCH EDGES NOT UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS CAN BE COMPACTED EXISTING NATIVE MATERIALS IN 8" MAXIMUM LIFTS OR AS APPROVED BY THE ENGINEER. NO MATERIAL SHALL BE USED FOR BACKFILLING THAT CONTAINS STONE, ROCKS, ETC., GREATER THAN 4" DIAMETER.
3. ALL TRENCH EDGES UNDER OR WITHIN 5' OF PROPOSED OR EXISTING PAVEMENT, CURB, DRIVEWAYS, ALLEYS, STONE AREA OR WALKS SHALL EITHER BE GRANULAR BACKFILL MATERIAL IN 6" MAXIMUM LIFTS OR LOW STRENGTHEN MORTAR BACKFILL. A DENSITY TEST ON GRANULAR BACKFILL OF 98% OF ASTM D698 STANDARD PROCTOR CURVE MAY BE REQUIRED TO BE PERFORMED BY A COMMERCIAL TESTING LAB SATIFACTORY TO THE ENGINEER.
4. GRANULAR BEDDING SHALL BE CRUSHED STONE OR GRAVEL OR OTHER APPROVED EQUIVALENT.
5. MINIMUM ASPHALT PAVEMENT REPLACEMENT: PERMANENT PAVEMENT REPLACEMENT SHALL EQUAL OR EXCEED THE EXISTING PAVEMENT COMPOSITION.
6. WHERE THE EXISTING PAVEMENT IS THICKER, THE CONTRACTOR SHALL INCREASE THE COURSE THICKNESS TO MATCH EXISTING.
7. THE OPEN ENDS OF ALL PIPES SHALL BE PLUGGED TO THE APPROVAL OF TEH ENGINEER BEFORE LEAVING THE WORK FOR THE NIGHT.
8. ALL TRENCHES WITHIN PAVEMENT, BERM, AND SHOULDER LIMITS SHALL BE BACKFILLED OR SECURELY PLATED DURING NONWORKING HOURS, TRENCHES OUTSIDE THESE AREAS SHALL BE BACKFILLED OR SHALL BE PROTECTED BYH APPROVED TEMPORARY FENCING OR BARRICADES DURING NONWORKING HOURS. CLEAN UP SHALL FOLLOW CLOSELY BEHIND THE TRENCHING OPERATION.



STORM SEWER/FIELD TILE REPAIR DETAIL

NOT TO SCALE

TYPICAL CASTING NOTES

1 FRAME AND GRATE CASTINGS SHALL MANUFACTURED BY NEENAH, EAST JORDAN IRON WORKS OR ZURN. OTHER MANUFACTURES MAY BE SUBSTITUTED BY SUBMITTING A SHOP DRAWING FOR APPROVAL BY THE ENGINEER. THE CONTRACTOR SHALL DEMONSTRATE THAT THE ALTERNATIVE MANUFACTURES MATERIAL, FABRICATION AND STANDARD SPECIFICATIONS MEETS OR EXCEEDS EAST JORDAN FOUNDRY HEAVY DUTY RATING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DIMENSIONAL FIT OF THE CASTING TO THE STRUCTURE.

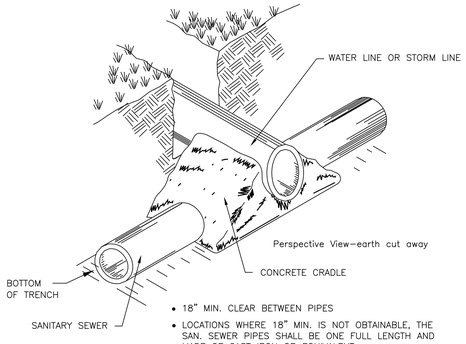
2 FRAME AND GRATE DETAILS ARE REPRESENTATIVE OF THE MINIMUM FRAME AND GRATE THAT WILL BE ACCEPTED FOR THIS PROJECT. ALTERNATE CASTINGS IF APPROVED, SHALL CONFORM TO THE GENERAL SIZE AND SHAPE OF THE CORRESPONDING CASTING DETAILED ON THIS SHEET.

3 ALL STORM SEWER MANHOLES WITH SOLID LID SHALL BE LETTERED AS SHOWN.

DRAINAGE STRUCTURE NOTES

1 TYPICAL DRAINAGE STRUCTURE DETAILS ARE REPRESENTIVE OF THE MINIMUM SIZE STRUCTURE DRAINAGE STRUCTURE THAT WILL BE APPROVED FOR USE ON THIS PROJECT. AT LOCATIONS WHERE THE TYPICAL DRAINAGE STRUCTURE IS INSUFFICENTLY SIZED TO ACCEPT ALL PIPING SHOWN, THE MINIMUM SIZED STRUCTURE SHALL BE INCREASED IN EVEN 6" INCREMENTS UNTIL A SUITABLE SIZE IS OBTAINED. THE CONTRACTOR SHALL PROVIDE A SUITABLE CASTING CONSISTANT WITH THE GENERAL SHAPE AND USAGE AS DETAILED.

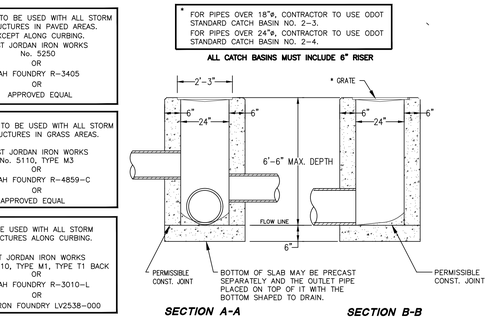
2 THE CONTRACTOR SHALL SUPPLY, FOR APPROVAL, DETAILED SHOP DRAWINGS OF ALL STRUCTURES SHOWN ON THE STORM AND SANITARY SEWER LAYOUT SHEETS. THE SHOP DRAWING SHALL INCLUDE, BUT NOT BE LIMITED TO, ALL PROPOSED INVERT ELEVATIONS, RIM ELEVATIONS, SUPPLIER AND ALL OTHER DETAILS RELATING TO THE CONSTRUCTION OF THE STRUCTURE.



- 18" MIN. CLEAR BETWEEN PIPES
- LOCATIONS WHERE 18" MIN. IS NOT OBTAINABLE, THE SAN. SEWER PIPES SHALL BE ONE FULL LENGTH AND MADE OF CAST IRON OR EQUIVALENT.

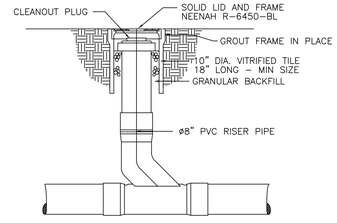
STORM & SANITARY SEWER CROSSING

NO SCALE



ODOT 2-2B CATCH BASIN

NOT TO SCALE



CLEANOUT

NO SCALE

TRENNARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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DRAWN BY: NKT

PROJECT NUMBER: FH224102.01/WSU-231035

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REV. NO.	DESCRIPTION	DATE

SITE UTILITIES DETAILS

C-501

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THE CONTRACTOR SHALL IMPLEMENT SOIL EROSION AND SEDIMENT CONTROL MEASURES DURING CONSTRUCTION TO MEET THE STANDARDS AND SPECIFICATIONS OF THE STATE OF OHIO, COUNTY REGULATIONS AND THEY ARE TO REMAIN IN EFFECT UNTIL AREAS ARE PERMANENTLY STABILIZED.

THE CONTRACTOR SHALL PLACE SEDIMENT BAG FOR EROSION CONTROL IMMEDIATELY AFTER CONSTRUCTION OF CATCH BASINS.

THE CONTRACTOR SHALL MAKE WEEKLY INSPECTIONS OF THE SITE TO INSURE EFFECTIVENESS OF EROSION AND SEDIMENTATION CONTROL MEASURES AND WILL IMMEDIATELY MAKE NECESSARY REPAIRS IN ACCORDANCE WITH THE MAINTENANCE SCHEDULE SHOWN ON THIS PLAN.

IT MAY BECOME NECESSARY TO REMOVE PORTIONS OF THE BARRIER DURING CONSTRUCTION TO FACILITATE THE GRADING OPERATIONS IN CERTAIN AREAS. HOWEVER, THE BARRIER SHALL BE IN PLACE IN THE EVENING AND DURING ANY INCLEMENT WEATHER.

EROSION AND ANY SEDIMENTATION FROM THE WORK ON THIS SITE SHALL BE CONTAINED ON THE SITE AND NOT ALLOWED TO COLLECT IN ANY OFF-SITE DRAINAGE COURSE, WHETHER NATURAL OR MAN-MADE.

ALL EARTH CHANGES SHALL BE CONSTRUCTED AND COMPLETED IN SUCH A MANNER TO LIMIT THE EXPOSED AREA OF ANY DISTURBED LAND FOR THE SHORTEST PERIOD OF TIME.

ALL CONSTRUCTION TRAFFIC SHALL ENTER AND LEAVE BY THE DESIGNATED ENTRANCE. THIS ENTRANCE SHALL BE CONSTRUCTED OF STONE TO HELP FREE TIRES OF SOIL WHEN LEAVING THE SITE. THE CONTRACTOR SHALL INSTRUCT ALL VEHICLES TO CLEAN SOIL, MISCELLANEOUS DEBRIS, OR OTHER MATERIAL SPILLED, DUMPED OR OTHERWISE DEPOSITED ON PUBLIC STREETS, HIGHWAYS, SIDEWALKS OR OTHER PUBLIC THOROUGHFARES DURING TRANSIT TO AND FROM THE SITE.

THE CONTRACTOR SHALL INSTALL TEMPORARY EROSION AND SEDIMENTATION DEVICES AS SHOWN AND REQUIRED BY THESE PLANS. THESE DEVICES SHALL REMAIN IN PLACE AND BE MAINTAINED UNTIL PERMANENT STABILIZATION OF SLOPES, DITCHES AND OTHER EARTH CHANGES HAVE BEEN ACCOMPLISHED.

CATCH BASINS LOCATED IN THE STREET OR NEAR THE SITE WILL BE PROTECTED TO PREVENT SEDIMENTATION FROM ENTERING FACILITY. THE COVERS SHALL BE CHECKED PERIODICALLY AND CLEANED WHENEVER THEY FAIL TO FILTER RUNOFF.

ALL SURFACE RUNOFF FROM THE PROJECT AREAS SHALL BE DIRECTED BY TEMPORARY DRAINAGE SWALES TO THE BASINS. AT THE COMPLETION OF CONSTRUCTION WHEN ALL DISTURBED AREAS HAVE BEEN STABILIZED THE BASINS SHALL BE CAREFULLY DRAINED WITHOUT DISTURBING THE SETTLED SILT, AND THEN GRADED AND SODDED TO CONFORM TO THE SITE GRADING PLAN.

THE LIMITS OF SEEDING AND MULCHING ARE AS SHOWN WITHIN THE PLAN SEEDING HAS BEEN ASSUMED TO 5' OUTSIDE THE WORK LIMITS OR RIGHT-OF-WAY WHICHEVER IS GREATER. ALL AREAS NOT DESIGNATED TO BE SEEDED SHALL REMAIN UNDER NATURAL GROUND COVER. THOSE AREAS DISTURBED OUTSIDE THE SEEDING LIMITS SHALL BE SEEDED AND MULCHED AT THE CONTRACTOR'S EXPENSE.

ALL SOIL EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO OR IN CONJUNCTION WITH, THE START OF EXCAVATION AND ARE TO REMAIN IN EFFECT UNTIL AREAS ARE STABILIZED. FIELD ADJUSTMENTS WITH RESPECT TO LOCATION AND DIMENSIONS MAY BE MADE BY THE ENGINEER AS REQUIRED.

FILTER BARRIERS CONSIST OF FILTER FABRIC AS SHOWN HEREIN.

SEQUENCE OF CONSTRUCTION SCHEDULE ACTIVITIES

A WORK SCHEDULE SHALL BE PREPARED THAT COORDINATES THE SEQUENCE OF LAND DISTURBING ACTIVITIES WITH THE INSTALLATION OF EROSION AND SEDIMENTATION CONTROL PRACTICES. THE PURPOSE OF THIS IS TO REDUCE ON-SITE EROSION AND OFF-SITE SEDIMENTATION FROM LAND DISTURBING ACTIVITIES BY INSTALLING EROSION AND SEDIMENTATION CONTROL PRACTICES ACCORDING TO THE OHIO EPA AND COUNTY REGULATIONS.

THE ORDER OF ACTIVITIES WILL BE AS FOLLOWS:

1. INSTALL STABILIZED CONSTRUCTION ENTRANCE
2. INSTALL SILT FENCE AND SEDIMENT TRAPS AS PART OF INITIAL PHASE OF ANY WORK TO ENSURE MAXIMUM SILT RETENTION
3. MASS GRADING OF SITE, WHICH INCLUDES SWALE FOR OFFSITE STORM WATER AND DETENTION BASINS
4. INSTALL STORM SEWERS SYSTEM INCLUDING CB'S.
   A) UPON BACKFILL OF STORM STRUCTURES, INSTALL SEDIMENT AND EROSION CONTROLS AROUND ALL CATCH BASINS
   B) CONSTRUCT TEMPORARY SWALES TO DRAINAGE STRUCTURES.
   C) WHEN FILTER BARRIERS ARE REMOVED FROM AROUND CATCH BASINS TO ALLOW FOR PAVING, STRIPPING, AND GRADING, STORM STRUCTURES SHALL BE PROTECTED FROM ERODING EARTH AND SEDIMENT AT ALL TIMES.
   D) INSTALL RIP RAP AROUND INLETS & OUTLETS.
5. EXECUTE GRADING AND FILLING OPERATIONS AROUND BUILDINGS AND IN YARD AREAS.
6. EXCAVATE FOR PARKING AND ROADWAYS. IF PLACEMENT OF AGGREGATE BASE LAGS BEHIND THE FINAL SUB-BASE GRADING BY MORE THE FIVE DAYS, SUB-BASE SHALL BE SCARIFIED PERPENDICULAR TO THE SLOPE TO PREVENT EROSION.
7. COMPLETE FINAL PAVING. UPON COMPLETION OF PAVING, THE AREA AROUND PAVEMENT SHALL BE PROTECTED FROM EROSION BY AN APPROVED METHOD CONSISTENT WITH THE GROWING SEASON
8. COMPLETE GRADING AND INSTALL PERMANENT SEEDING AND PLANTINGS
9. REMOVE ACCUMULATED SEDIMENT FROM SEDIMENT AND EROSION CONTROL (CONTINUAL EVENT) INCLUDING STORM PIPING, STORM CATCH BASINS.
10. WHEN ALL CONSTRUCTION ACTIVITY IS COMPLETE AND THE SITE IS STABILIZED, REMOVE SEDIMENT AND EROSION CONTROL AND RESEED ANY AREAS DISTURBED BY THEIR REMOVAL.

MAINTENANCE/INSPECTION PROCEDURES

THESE ARE THE INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO MAINTAIN EROSION AND SEDIMENT CONTROLS:

ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.

ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.

BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE WHEN IT HAS REACHED ONE-THIRD THE HEIGHT OF THE FENCE.

SILT FENCE WILL BE INSPECTED FOR DEPTH OF SEDIMENT, TEARS, TO SEE IF THE FABRIC IS SECURELY ATTACHED TO THE FENCE POSTS, AND TO SEE THAT THE FENCE POSTS ARE FIRMLY IN THE GROUND.

BUILT UP SEDIMENT IN THE DRAINAGE SWALES WILL BE REMOVED.

TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.

A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION. A COPY OF THE REPORT FORM TO BE COMPLETED BY THE INSPECTOR WILL BE PROVIDED.

THE CONTRACTOR WILL BE RESPONSIBLE FOR THE INSPECTIONS, SUCH REPAIRS AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.

LOCATION OF STOCKPILES

STOCKPILES OF SOIL SHALL BE PROTECTED WITH SILT FENCE SURROUNDING STOCKPILE UNTIL MATERIAL IS RESPREAD.

CONSTRUCTION ENTRANCE

STONE SIZE – No. 2 (2-1/2" TO 1-1/2") OR ITS EQUIVALENT.

LENGTH – AS EFFECTIVE, BUT NOT LESS THAN 50 FEET.

THICKNESS – NOT LESS THAN EIGHT (8) INCHES.

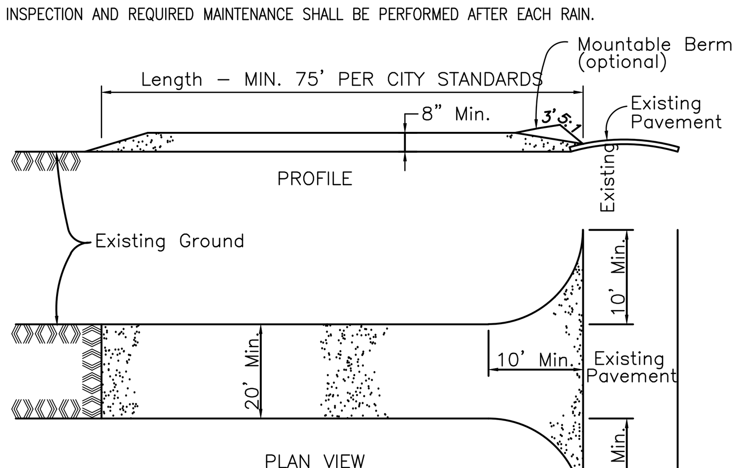
WIDTH – TWENTY (20) FEET MINIMUM, BUT NOT LESS THAN THE FULL WIDTH AT POINTS WHERE INGRESS OR EGRESS OCCURS.

SURFACE WATER – ALL SURFACE WATER FLOWING OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED ACROSS THE ENTRANCE.

WASHING – WHEN NECESSARY, WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WHICH DRAINS INTO AN APPROVED SEDIMENT TRAP. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH, OR WATERCOURSE THROUGH USE OF SAND BAGS, GRAVEL, BOARDS OR OTHER APPROVED METHODS.

MAINTENANCE – THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND AND REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHT-OF-WAY MUST BE REMOVED IMMEDIATELY.

PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PERFORMED AFTER EACH RAIN.



CONSTRUCTION ENTRANCE DETAIL

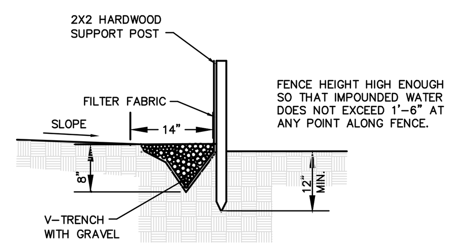
MAINTENANCE

SILT FENCES AND BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

SHOULD THE FABRIC ON A SILT FENCE OR FILTER BARRIER DECOMPOSE OR BECOME INEFFECTIVE PRIOR TO THE END OF THE EXPECTED USABLE LIFE AND THE BARRIER IS STILL NECESSARY, THE FABRIC SHALL BE REPLACED PROMPTLY.

SEDIMENT DEPOSITS SHALL BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-THIRD THE HEIGHT OF THE BARRIER.

ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.



SILT FENCE DETAIL

NO SCALE

SILT FENCE NOTES

SILT FENCES. THIS SEDIMENT BARRIER UTILIZES STANDARD STRENGTH OR EXTRA STRENGTH SYNTHETIC FILTER FABRICS. IT IS DESIGNED FOR SITUATIONS IN WHICH ONLY SHEET OR OVERLAND FLOWS ARE EXPECTED.

THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (HIGHER FENCES MAY IMPOUND VOLUMES OF WATER SUFFICIENT TO CAUSE FAILURE TO THE STRUCTURE.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY FILTER CLOTH SHALL BE SPLICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAYS AND SECURELY SEALED.

WHEN STANDARD STRENGTH FILTER FABRIC IS USED A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 12 INCHES). WHEN EXTRASTRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT, FENCE POST SPACING SHALL NOT EXCEED 6 FEET.

A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES WIDE AND 4 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FORM THE BARRIER.

THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 8 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.

WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS.

THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.

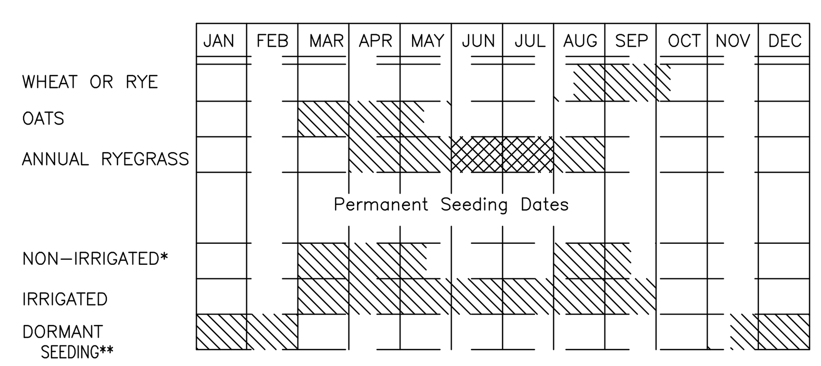
SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.

TEMPORARY SEEDING		
	PER 1,000 SQ. FT.	PER ACRE
ANNUAL RYEGRASS	2 POUNDS	80 POUNDS
SMALL GRAIN STRAW	150 POUNDS	3 TONS
FERTILIZER	10 POUNDS OF 12-12-12 OR THE EQUIVALENT	400 POUNDS OF 12-12-12 OR THE EQUIVALENT

Temporary Stabilization	
Area requiring temporary stabilization	Time frame to apply erosion controls
Any disturbed areas within 50 feet of a stream and not at final grade	Within two days of the most recent disturbance if the area will remain idle
For all constuction activities, any disturbed areas that will be dormant for more than 14 days but less than one year, and not within 50 feet of a stream	Within seven days of the most recent disturbance within the area For residential subdivisions, disturbed areas must be stabilized at least seven days prior to transfer of permit coverage for the individual lot(s)
Disturbed areas that will be idle over winter	Prior to the onset of winter weather.

Permanent Stabilization	
Area requiring permanent stabilization	Time frame to apply erosion controls
Any areas that will lie dormant for one year or more	Within seven days of the most recent disturbance
Any areas within 50 feet of a stream and at final grade	Within two days of reaching final grade
Any other areas at final grade	Within seven days of reaching final grade within that area

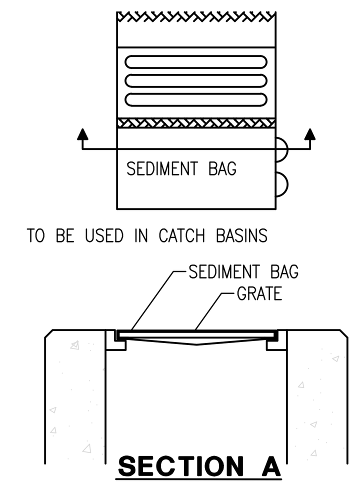
TEMPORARY SEEDING DATES



IRRIGATION NEEDED DURING THIS PERIOD. TO CONTROL EROSION AT TIMES OTHER THAN IN THE SHADED AREAS, USE MULCH.

* LATE SUMMER SEEDING DATES MAY BE EXTENDED 5 DAYS IF MULCH IS APPLIED.

** INCREASE SEEDING APPLICATION BY 50%.



SECTION A

SEDIMENT BAG

INSTALLATION: STAND GRATE ON END, PLACE CASTING IN BAG, OVER GRATE, FLIP GRATE OVER SO THAT OPEN END IS UP, PULL UP SLACK, TUCK FLAP IN. BE SURE END OF GRATE IS COMPLETELY COVERED BY FLAP OR BAG WILL NOT FIT PROPERLY. HOLDING HANDLES, CAREFULLY PLACE THE BAG WITH GRATE INSERTED INTO CATCH BASIN FRAME. NO CASTING SHALL BE WRAPPED WITH LOOSE GEOSYNTHETIC MATERIAL, ONLY A BAG TYPE SYSTEM IS ACCEPTABLE.

MAINTENANCE: AFTER SILT HAS DRIED, REMOVE IT FROM THE SURFACE OF THE BAG WITH BROOM.

IN ORDER TO CONTROL SEDIMENT POLLUTION OF WATER RESOURCES THE OWNER OR PERSON RESPONSIBLE FOR THE DEVELOPMENT AREA SHALL USE CONSERVATION PLANNING AND PRACTICES TO MAINTAIN THE LEVEL OF CONSERVATION ESTABLISHED BY THE FOLLOWING STANDARDS:

SEDIMENT CONTROL PRACTICES SHALL BE FUNCTIONAL THROUGHOUT EARTH-DISTURBING ACTIVITY.

SETTLING FACILITIES, PERIMETER CONTROLS, AND OTHER PRACTICES INTENDED TO TRAP SEDIMENT SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING. THEY SHALL CONTINUE TO FUNCTION UNTIL THE UPSLOPE DEVELOPMENT AREA IS RESTABLIZED.

STABILIZATION OF STRIPPED AREA. STRIPPED AREAS SHALL HAVE SOIL STABILIZATION APPLIED WITHIN SEVEN DAYS IF THEY ARE TO REMAIN DORMANT FOR MORE THAN FOURTEEN DAYS. PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE, AND SHALL ALSO BE APPLIED WITHIN SEVEN DAYS TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE, BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN FORTY-FIVE DAYS.

SEDIMENT BARRIER. STREET FLOW RUNOFF FROM STRIPPED AREAS SHALL BE FILTERED OR DIVERTED TO A SETTLING FACILITY.

STORM SEWER INLET PROTECTION. ALL STORM SEWER INLETS WHICH ACCEPT WATER RUNOFF FROM THE DEVELOPMENT AREA SHALL BE PROTECTED SO THAT SEDIMENT-LADEN WATER WILL NOT ENTER THE STORM SEWER SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT, UNLESS THE STORM SEWER SYSTEM DRAINS TO A SETTLING FACILITY.

WORKING IN OR CROSSING STREAMS:
A. STREAMS, INCLUDING BED AND BANKS, SHALL BE RESTABILIZED IMMEDIATELY AFTER IN-CHANNEL WORK IS COMPLETED, INTERRUPTED, OR STOPPED.

TO THE EXTENT PRACTICAL, CONSTRUCTION VEHICLES SHALL BE KEPT OUT OF STREAMS. WHERE IN CHANNEL WORK IS NECESSARY, PRECAUTIONS SHALL BE TAKEN TO STABILIZE THE WORK AREA DURING CONSTRUCTION TO MINIMIZE EROSION.

B. IF A LIVE (WET) STREAM MUST BE CROSSED BY CONSTRUCTION VEHICLES REGULARLY DURING CONSTRUCTION, A TEMPORARY STREAM CROSSING SHALL BE PROVIDED.

CONSTRUCTION ACCESS ROUTES. MEASURES SHALL BE TAKEN TO PREVENT SOIL TRANSPORT ONTO SURFACES WHERE RUNOFF IS NOT CHECKED BY SEDIMENT CONTROLS, OR ONTO PUBLIC ROADS.

SLOUGHING AND DUMPING:
A. NO SOIL, ROCK, DEBRIS, OR ANY OTHER MATERIAL SHALL BE DUMPED OR PLACED INTO A WATER RESOURCE OR INTO SUCH PROXIMITY THAT IT MAY READILY SLOUGH, SLIP, OR ERODE INTO A WATER RESOURCE UNLESS SUCH DUMPING OR PLACING IS AUTHORIZED BY THE CITY ENGINEER AND, WHEN APPLICABLE, THE U.S. ARMY CORPS OF ENGINEERS, FOR SUCH PURPOSES AS, BUT NOT LIMITED TO CONSTRUCTION BRIDGES, CULVERTS, AND EROSION CONTROL STRUCTURES.

B. UNSTABLE SOILS PRONE TO SLIPPING OR LANDSLIDING SHALL NOT BE GRADED, EXCAVATED, FILLED OR HAVE LOADS IMPOSED UPON THEM UNLESS THE WORK IS DONE IN ACCORDANCE WITH A QUALIFIED PROFESSIONAL ENGINEER'S RECOMMENDATIONS TO CORRECT, ELIMINATE, OR ADEQUATELY ADDRESS THE PROBLEMS.

CUT AND FILL SLOPES. CUT AND FILL SLOPES SHALL BE CONSTRUCTED IN A MANNER WHICH WILL MINIMIZE EROSION. CONSIDERATION SHALL BE GIVEN TO THE LENGTH AND STEEPNESS OF THE SLOPE, SOIL TYPE, UPSLOPE DRAINAGE AREA, GROUNDWATER CONDITIONS, AND SLOPE STABILIZATION.

STABILIZATION OF OUTFALLS AND CHANNELS. OUTFALLS AND CONSTRUCTION OF MODIFIED CHANNELS SHALL BE DESIGNED AND CONSTRUCTED TO WITHSTAND THE EXPECTED VELOCITY OF FLOW FROM A POST-DEVELOPMENT, TEN-YEAR FREQUENCY STORM WITHOUT ERODING.

ESTABLISHMENT OF PERMANENT VEGETATION. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNTIL GROUND COVER IS ACHIEVED WHICH, IN THE OPINION OF THE APPROVING AGENCY, PROVIDES ADEQUATE COVER AND IS MATURE ENOUGH TO CONTROL SOIL EROSION SATISFACTORILY AND TO SURVIVE ADVERSE WEATHER CONDITIONS.

DISPOSITION OF TEMPORARY PRACTICES. ALL TEMPORARY EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DISPOSED OF WITHIN THIRTY DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY PRACTICES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE APPROVING AGENCY. TRAPPED SEDIMENT SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION.

MAINTENANCE. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE DESIGNED AND CONSTRUCTED TO MINIMIZE MAINTENANCE REQUIREMENTS. THEY SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE PERSON OR ENTITY RESPONSIBLE FOR THE CONTINUED MAINTENANCE OF PERMANENT EROSION CONTROLS SHALL BE IDENTIFIED TO THE SATISFACTION OF THE PLAN-APPROVING AUTHORITY AND IDENTIFIED BY THE SUBDIVIDER'S AGREEMENT.

THE COST FOR TEMPORARY CHANNELS, SEDIMENT DAMS AND OTHER APPURTENANT EARTH MOVING OPERATIONS SHALL BE INCLUDED IN THE PRICE BID FOR EARTHWORK.

OHIO EPA CONSTRUCTION SITE INSPECTION CHECKLIST

BY MAKING USE OF SOME SIMPLE BEST MANAGEMENT PRACTICES (BMPS) A DEVELOPER CAN DO HIS OR HER SHARE TO PROTECT OHIO'S WATER RESOURCES FROM THE HARMFUL EFFECTS OF SEDIMENT. THE TOPOGRAPHY OF THE SITE AND THE EXTENT OF THE CONSTRUCTION ACTIVITIES WILL DETERMINE WHICH OF THESE PRACTICES ARE APPLICABLE TO ANY GIVEN SITE, BUT THE BMPS LISTED HERE ARE APPLICABLE TO MOST CONSTRUCTION SITES. FOR DETAILS ON THE INSTALLATION AND MAINTENANCE OF THESE BMPS, PLEASE REFER TO RAINWATER AND LAND DEVELOPMENT, OHIO'S STANDARDS FOR STORM WATER MANAGEMENT, LAND DEVELOPMENT AND URBAN STREAM PROTECTION (OHIO DEPARTMENT OF NATURAL RESOURCES, 1996), AVAILABLE FROM YOUR COUNTY SOIL AND WATER CONSERVATION DISTRICT (SWCD).

TEMPORARY STABILIZATION: THIS IS THE MOST EFFECTIVE BMP. ALL DISTURBED AREAS THAT WILL LIE DORMANT FOR OVER 14 DAYS MUST BE STABILIZED WITHIN 7 DAYS OF THE DATE THE AREA BECOMES INACTIVE. THE GOAL OF TEMPORARY STABILIZATION IS TO PROVIDE COVER QUICKLY. AREAS WITHIN 50 FEET OF A STREAM MUST BE STABILIZED WITHIN 2 DAYS OF INACTIVITY. THIS IS ACCOMPLISHED BY SEEDING WITH FAST-GROWING GRASSES THEN COVERING WITH STRAW MULCH. APPLY ONLY MULCH BETWEEN NOVEMBER 1 AND MARCH 31. TO MINIMIZE YOUR COSTS OF TEMPORARY STABILIZATION, LEAVE NATURAL COVER IN PLACE FOR AS LONG AS POSSIBLE. ONLY DISTURB AREAS YOU INTEND TO WORK WITHIN THE NEXT 14 DAYS.

CONSTRUCTION ENTRANCES: CONSTRUCTION ENTRANCES ARE INSTALLED TO MINIMIZE OFF-SITE TRACKING OF SEDIMENTS. A STONE ACCESS DRIVE SHOULD BE INSTALLED AT EVERY POINT WHERE VEHICLES ENTER OR EXIT THE SITE. EVERY INDIVIDUAL LOT SHOULD ALSO HAVE ITS OWN DRIVE ONCE CONSTRUCTION ON THE LOT BEGINS.

SEDIMENT PONDS: THIS IS THE SEDIMENT CONTROL OF CHOICE FOR AREAS WHICH EXCEED THE DESIGN CAPACITY OF SILT FENCE (SEE PAGE 119 OF THE RAINWATER MANUAL) OR TO CONTROL CONCENTRATED FLOWS OR RUNOFF. THERE ARE TWO TYPES OF SEDIMENT PONDS: SEDIMENT BASINS AND SEDIMENT TRAPS. A SEDIMENT TRAP IS APPROPRIATE WHERE THE CONTRIBUTING DRAINAGE AREA IS 10 ACRES OR LESS. THE OUTLET IS AN EARTHEN EMBANKMENT WITH A SIMPLE STONE SPILLWAY. A SEDIMENT BASIN IS APPROPRIATE FOR DRAINAGE AREAS LARGER THAN 10 ACRES. THE OUTLET IS AN ENGINEERED RISER PIPE. OFTEN A PERMANENT STORM WATER MANAGEMENT POND, SUCH AS A RETENTION OR DETENTION BASIN, CAN BE MODIFIED TO ACT AS A SEDIMENT BASIN DURING CONSTRUCTION. ALL SEDIMENT PONDS, REGARDLESS OF WHETHER THEY ARE A TRAP OR A BASIN AND REGARDLESS OF WHETHER THEY WILL BECOME A PERMANENT STORM WATER POND, MUST PROVIDE A MINIMUM STORAGE OF 67 CUBIC YARDS PER ACRE OF TOTAL CONTRIBUTING DRAINAGE AREA. SEDIMENT PONDS MUST BE INSTALLED WITHIN 7 DAYS OF FIRST GRUBBING THE AREA THEY CONTROL.

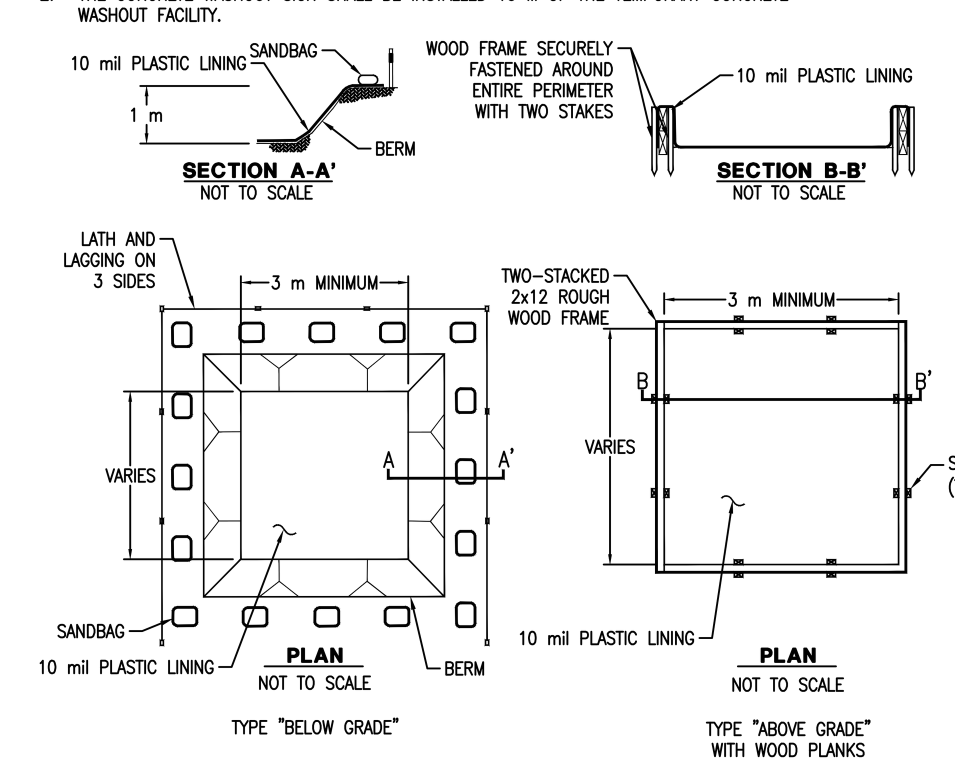
SILT FENCE: THIS IS TYPICALLY USED AT THE PERIMETER OF A DISTURBED AREA. IT'S ONLY FOR SMALL DRAINAGE AREAS ON RELATIVELY FLAT SLOPES OR AROUND SMALL SOIL STORAGE PILES. NOT SUITABLE WHERE RUNOFF IS CONCENTRATED IN A DITCH, PIPE OR THROUGH STREAMS. FOR LARGE DRAINAGE AREAS WHERE FLOW IS CONCENTRATED, COLLECT RUNOFF IN DIVERSION BERMS OR CHANNELS AND PASS IT THROUGH A SEDIMENT POND PRIOR TO DISCHARGING IT FROM THE SITE. COMBINATION BARRIERS CONSTRUCTED OF SILT FENCE SUPPORTED BY STRAW BALES OR SILT FENCE EMBEDDED WITHIN ROCK CHECK DAMS MAY BE EFFECTIVE WITHIN SMALL CHANNELS. AS WITH ALL SEDIMENT CONTROLS, SILT FENCE MUST BE CAPABLE OF PONDING RUNOFF SO THAT SEDIMENT CAN SETTLE OUT OF SUSPENSION. SILT FENCE MUST BE INSTALLED WITHIN 7 DAYS OF FIRST GRUBBING THE AREA IT CONTROLS.

INLET PROTECTION: THESE MUST BE INSTALLED ON ALL YARD DRAINS AND CURB DRAINS WHEN THESE INLETS DO NOT DRAIN TO A SEDIMENT TRAP OR BASIN. EVEN IF THERE IS A SEDIMENT TRAP OR BASIN, INLET PROTECTION IS STILL RECOMMENDED, AS IT WILL INCREASE THE OVERALL SEDIMENT REMOVAL EFFICIENCY. BEST USED ON ROADS WITH LITTLE OR NO TRAFFIC. IF WORKING PROPERLY, INLET PROTECTION WILL CAUSE WATER TO POND. IF USED ON CURB INLETS, STREETS WILL FLOOD TEMPORARILY DURING HEAVY STORMS. CHECK WITH YOUR MUNICIPALITY BEFORE INSTALLING CURB INLET PROTECTION. THEY MAY PREFER AN ALTERNATE MEANS OF SEDIMENT CONTROL SUCH AS SILT FENCE OR PONDS.

PERMANENT STABILIZATION: ALL AREAS AT FINAL GRADE MUST BE PERMANENTLY STABILIZED WITHIN 7 DAYS OF REACHING FINAL GRADE. THIS IS USUALLY ACCOMPLISHED BY USING SEED AND MULCH, BUT SPECIAL MEASURES ARE SOMETIMES REQUIRED. THIS IS PARTICULARLY TRUE IN DRAINAGE DITCHES OR ON STEEP SLOPES. THESE MEASURES INCLUDE THE ADDITION OF TOPSOIL, EROSION CONTROL MATTING, ROCK RIP-RAP OR RETAINING WALLS. PERMANENT SEEDING SHOULD BE DONE MARCH 1 TO MAY 31 AND AUGUST 1 TO SEPTEMBER 30. DORMANT SEEDING CAN BE DONE FROM NOVEMBER 20 TO MARCH 15. AT ALL OTHER TIMES OF THE YEAR, THE AREA SHOULD BE TEMPORARILY STABILIZED UNTIL A PERMANENT SEEDING CAN BE APPLIED.

NON-SEDIMENT POLLUTION CONTROL: ALTHOUGH SEDIMENT IS THE POLLUTANT OF GREATEST CONCERN ON MOST CONSTRUCTION SITES, THERE ARE OTHER SOURCES OF POLLUTION. MOST OF THESE BMPS ARE EASY TO IMPLEMENT WITH A LITTLE BIT OF PLANNING AND GO A LONG WAY TOWARD KEEPING YOUR SITE CLEAN AND ORGANIZED. PLEASE BE SURE TO INFORM ALL CONTRACTORS HOW THESE BMPS AFFECT THEIR OPERATIONS ON THE SITE, PARTICULARLY THOSE THAT WILL BE WORKING NEAR A STREAM.

NOTES:
1. ACTUAL LAYOUT DETERMINED IN THE FIELD.
2. THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED 10 M OF THE TEMPORARY CONCRETE WASHOUT FACILITY.



CONCRETE WASHOUT DETAIL

ACCESS Engineering Solutions
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CONSTRUCTION DOCUMENTS

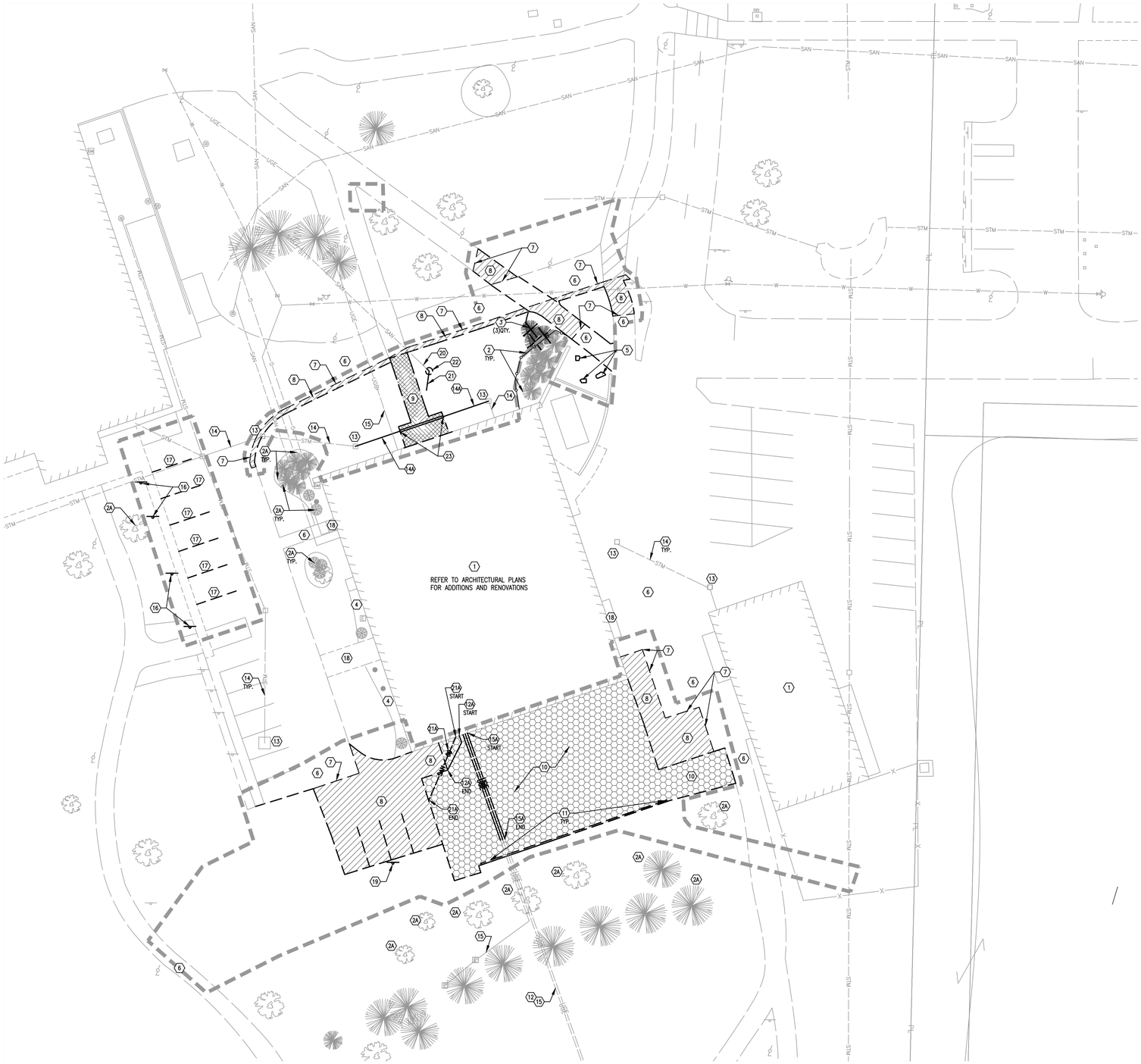
STATE OF OHIO ★ NANCY K. TOBE 67546 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: NKT
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

EROSION CONTROL NOTES & DETAILS

C-502



DEMOLITION PLAN

SCALE: 1" = 20'-0"

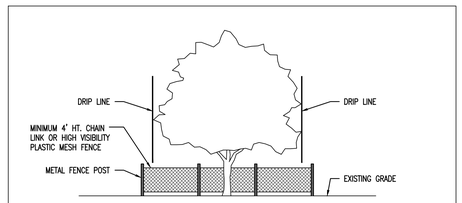
DEMOLITION KEYNOTE LEGEND

BY SITEWORK CONTRACTOR (UNLESS OTHERWISE NOTED):

- CONSTRUCTION LIMITS
- 1 EXISTING BUILDING TO REMAIN
- 2 EXISTING TREES TO REMAIN. INSTALL TREE PROTECTION FENCE, SEE DETAIL 1/LD-101. MINIMIZE CONSTRUCTION TRAFFIC AND EARTHWORK OPERATIONS WITHIN EXISTING TREE ROOT ZONE AND UNDER NO CIRCUMSTANCES SHALL MATERIAL STOCKPILE BE PERMITTED WITHIN THE EXISTING ROOT ZONE OF TREES TO REMAIN
- 2A EXISTING TREES TO REMAIN. MINIMIZE CONSTRUCTION TRAFFIC AND EARTHWORK OPERATIONS WITHIN EXISTING TREE ROOT ZONE AND UNDER NO CIRCUMSTANCES SHALL MATERIAL STOCKPILE BE PERMITTED WITHIN THE EXISTING ROOT ZONE OF TREES TO REMAIN
- 3 REMOVE EXISTING TREES IN THEIR ENTIRETY INCLUDING ROOTS, STUMPS AND ASSOCIATED DEBRIS AND DISPOSE OFF-SITE. MINIMIZE DISTURBANCE TO ADJACENT TREES TO REMAIN
- 4 EXISTING PLANT BED, PROTECT DURING CONSTRUCTION
- 5 REMOVE BOULDERS AS PART OF THE MECHANICAL YARD SCREENING ALTERNATE. REFER TO PLANTING PLAN FOR BOULDER RELOCATION.
- 6 EXISTING ASPHALT PAVEMENT TO REMAIN, PROTECT DURING CONSTRUCTION
- 7 SAWCUT EXISTING ASPHALT PAVEMENT
- 8 REMOVE EXISTING ASPHALT PAVEMENT AND AGGREGATE BASE IN THEIR ENTIRETY AND DISPOSE OFF-SITE. REMOVE SUBGRADE SOIL TO ESTABLISH ELEVATION REQUIRED FOR NEW PAVEMENT SECTION
- 9 REMOVE EXISTING CONCRETE WALK IN ITS ENTIRETY AND DISPOSE OFF-SITE
- 10 REMOVE EXISTING GRAVEL IN ITS ENTIRETY AND DISPOSE OFF-SITE
- 11 REMOVE EXISTING CONCRETE WHEEL STOPS IN THEIR ENTIRETY AND DISPOSE OFF-SITE
- 12 EXISTING DATA LINE AND CONDUIT, REFER TO THE SITE ELECTRICAL PLAN
- 12A REMOVE EXISTING DATA LINE AND CONDUIT, REFER TO THE SITE ELECTRICAL PLAN
- 13 EXISTING CATCH BASIN TO REMAIN, REFER TO SITE UTILITIES PLAN
- 14 EXISTING STORM LINE TO REMAIN, REFER TO SITE UTILITIES PLAN
- 14A EXISTING STORM LINE TO BE REMOVED AND REPLACED, REFER TO SITE UTILITIES PLAN AND PLUMBING DRAWINGS
- 15 EXISTING ELECTRIC LINE, REFER TO SITE ELECTRICAL PLAN
- 15A REMOVE EXISTING ELECTRIC LINES AND CONDUITS, REFER TO THE SITE ELECTRICAL PLAN
- 16 RELOCATE EXISTING ACCESSIBLE PARKING SIGNS AFTER RESTRIPING WORK IS COMPLETE, REFER TO SITE LAYOUT PLAN.
- 17 REMOVE EXISTING PAVEMENT MARKINGS
- 18 EXISTING CONCRETE PAVEMENT TO REMAIN, PROTECT DURING CONSTRUCTION
- 19 REMOVE AND SALVAGE EXISTING "STAFF PARKING" SIGN & POST FOR FUTURE INSTALLATION
- 20 EXISTING SANITARY LINE TO REMAIN, REFER TO SITE UTILITIES PLAN
- 21 REMOVE EXISTING SANITARY LINE, REFER TO SITE UTILITIES PLAN
- 21A REMOVE EXISTING SANITARY LINE AND CAP AT THE BUILDING, REMOVE EXISTING SANITARY CLEANOUT. REFER TO SITE UTILITIES PLAN
- 22 REMOVE EXISTING SANITARY MANHOLE IN ITS ENTIRETY, CAP EXISTING SANITARY LINE TO REMAIN, REFER TO SITE UTILITIES PLAN
- 23 REMOVE EXISTING TRENCH DRAIN IN ITS ENTIRETY, REFER TO SITE UTILITIES PLAN

GENERAL NOTES

1. THE CONTRACTOR IS TO LOCATE ALL UTILITIES AND SUBMIT A WSU DIG PERMIT PRIOR TO CONSTRUCTION OPERATIONS. CONTRACTOR WILL BE HELD RESPONSIBLE FOR ANY DAMAGES TO UTILITIES NOT SCHEDULED FOR REMOVAL. CONTACT OUPS FOR CONFIRMATION OF UTILITY LOCATIONS: 1-800-362-2764.
2. THE CONTRACTOR SHALL WALK THE SITE PRIOR TO BID TO BE FULLY FAMILIAR WITH THE EXTENT OF REMOVAL ITEMS. THE CONTRACTOR IS RESPONSIBLE FOR ALL REMOVALS NECESSARY TO COMPLETE CONSTRUCTION. QUESTIONS REGARDING ITEMS TO BE REMOVED SHALL BE DIRECTED TO THE ARCHITECT.
3. CONTRACTOR SHALL APPLY AND RECEIVE ALL PERMITS NECESSARY TO COMPLETE WORK WITHIN PUBLIC RIGHT-OF WAYS. PROVIDE PROPER BARRICADES FOR WALKS AND STREETS ACCORDING TO OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
4. PROTECT ALL TREES AND SHRUBS NOT SCHEDULED FOR REMOVAL. MINIMIZE EQUIPMENT OPERATION WITHIN EXISTING TREE ROOT ZONES. DO NOT STORE, STOCKPILE, OR PARK WITHIN THE ROOT ZONES OF EXISTING VEGETATION. HOLD NECESSARY DISTURBANCE TO A MINIMUM.
5. MATERIALS AND STRUCTURES SHOWN FOR REMOVAL SHALL BE REMOVED IN THEIR ENTIRETY LEAVING ONLY NATURAL SOILS. REFER TO PROJECT MANUAL.
6. IN THE EVENT THAT ANY STRUCTURES OR HISTORICAL ELEMENTS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER, AND ARCHITECT PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.
7. IN THE EVENT THAT ANY HAZARDOUS MATERIALS ARE DISCOVERED DURING CONSTRUCTION OPERATIONS, THESE ITEMS SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT PRIOR TO PROCEEDING WITH THAT PORTION OF THE WORK.



GUIDELINES:

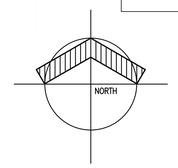
1. ERECT FENCE BARRIERS AROUND ALL "SAVED" TREES NEAR THE CONSTRUCTION ACTIVITY.
2. FENCE MULTIPLE TREES TOGETHER WHEN POSSIBLE.
3. FENCE BARRIERS SHALL BE PLACED OUTSIDE THE DRIP LINE AND AS FAR FROM THE TREE AS CONSTRUCTION PERMITS.
4. FENCE POSTS SHALL BE PLACED NO FURTHER THAN 15 FEET APART.
5. NO STAGING OF MATERIALS OR GRADING SHALL OCCUR WITHIN THE FENCED TREE PRESERVATION AREA.

1 TREE PRESERVATION FENCE

NOT TO SCALE

0 10' 20' 40'

SCALE: 1" = 20'-0"



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128 W Market St, Celina, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO · JENNIFER M FULLER · 1115297 · REGISTERED ARCHITECT

Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

DRAWN BY: KNB

PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

DEMOLITION PLAN

LD-101

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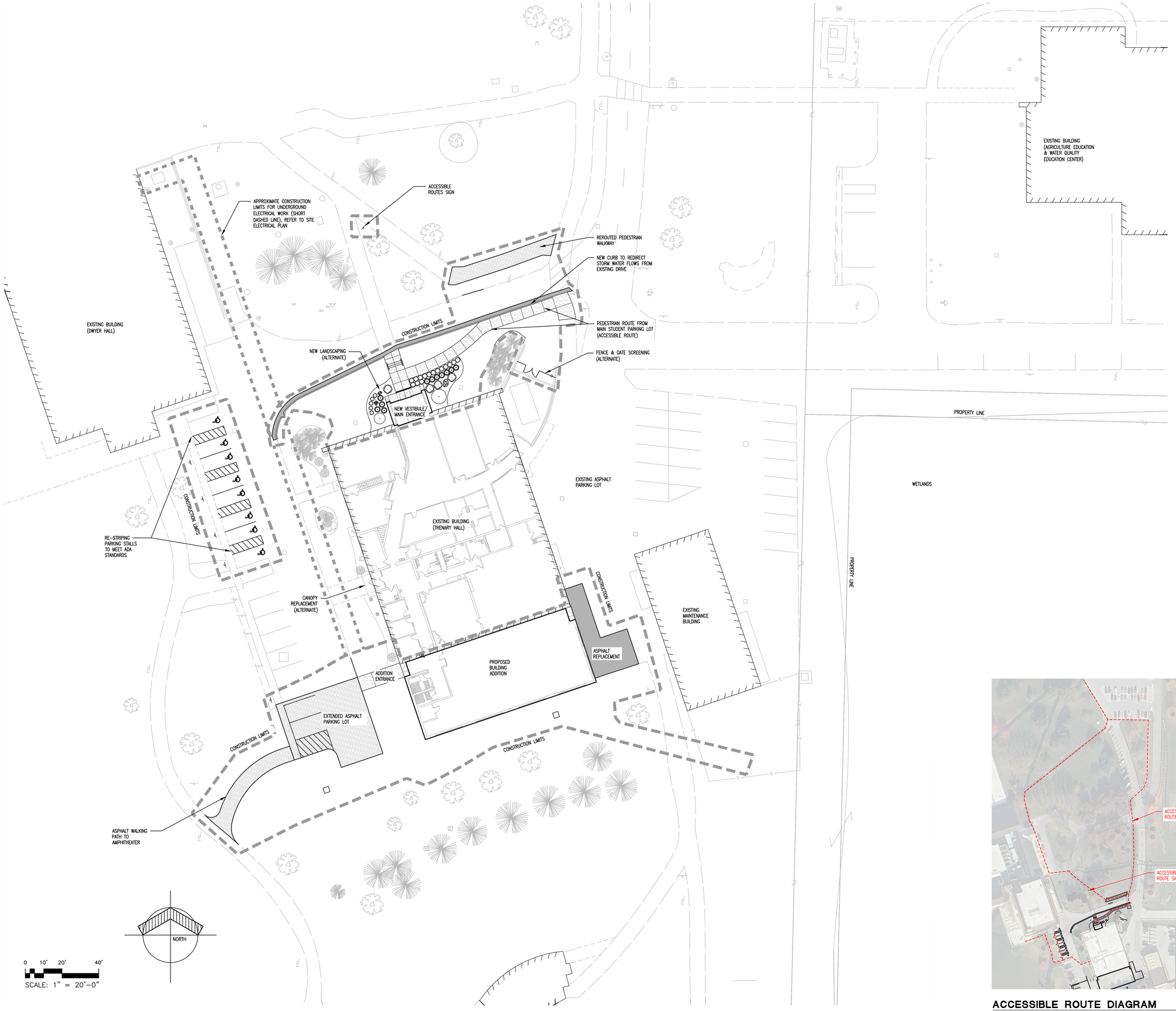
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ILLUSTRATIVE SITE PLAN

SCALE: 1" = 20'-0"

ACCESSIBLE ROUTE DIAGRAM

SCALE: 1" = 100'-0"

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

DRAWN BY: KNB

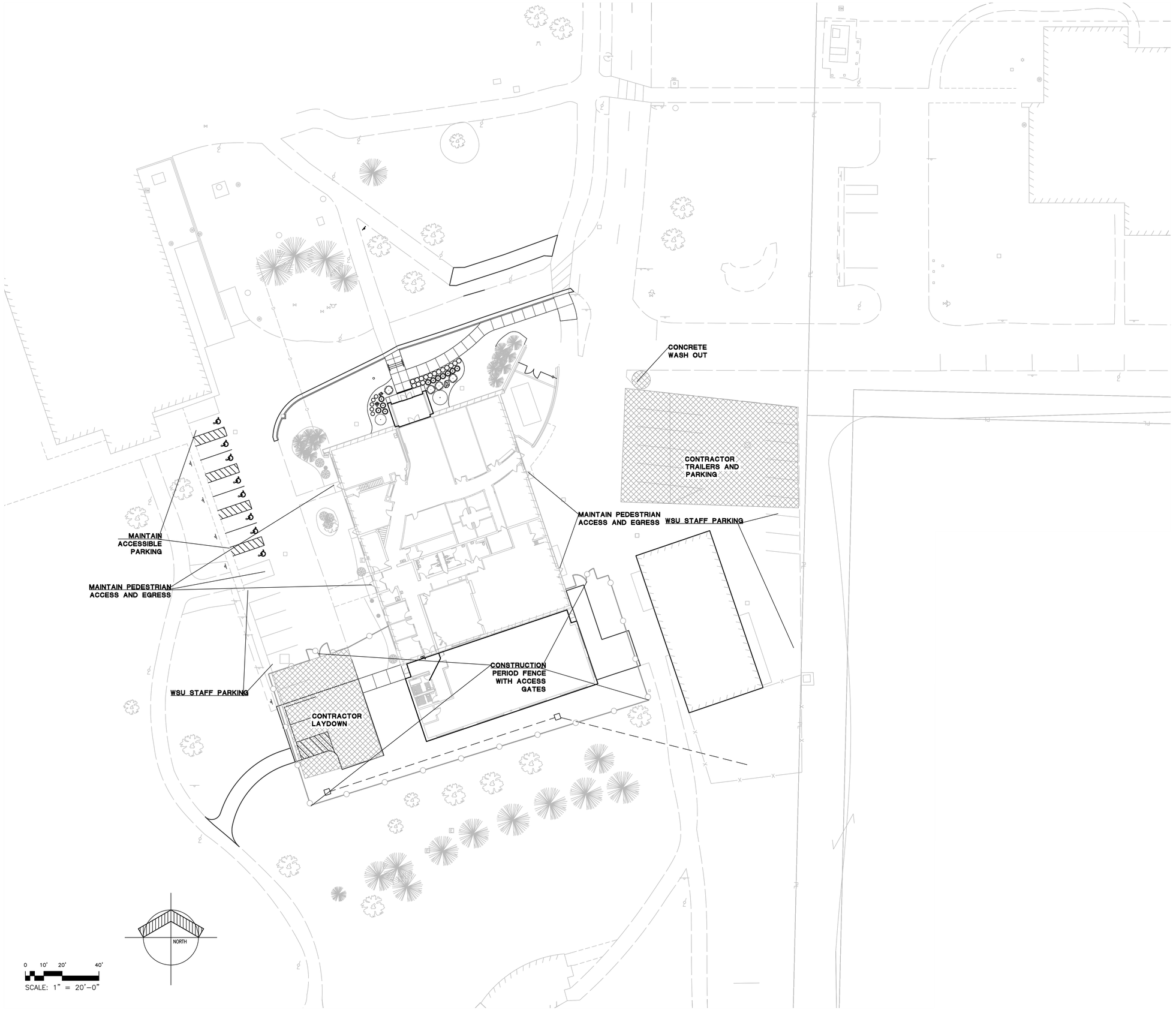
PROJECT NUMBER: FH224102.00/WSU-231035

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ILLUSTRATIVE SITE PLAN

L-101



SITE LOGISTICS PLAN

SCALE: 1" = 20'-0"

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Jennifer M. Fuller License # 1115297
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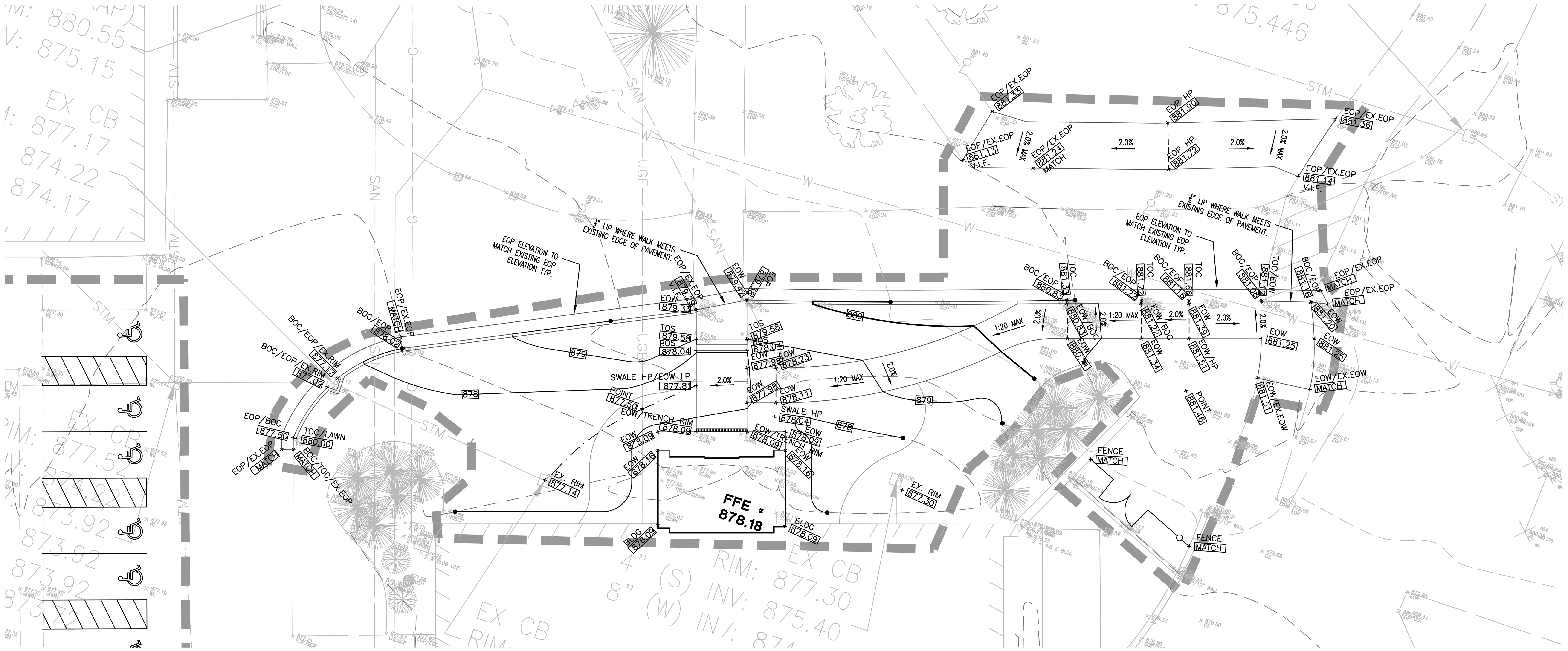
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PROJECT ISSUE DATE: 09.04.26

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SITE LOGISTICS PLAN

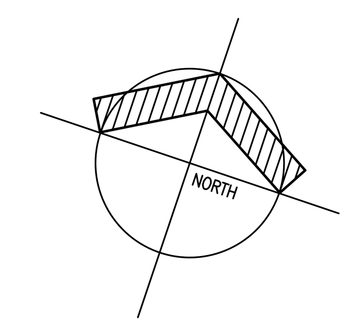
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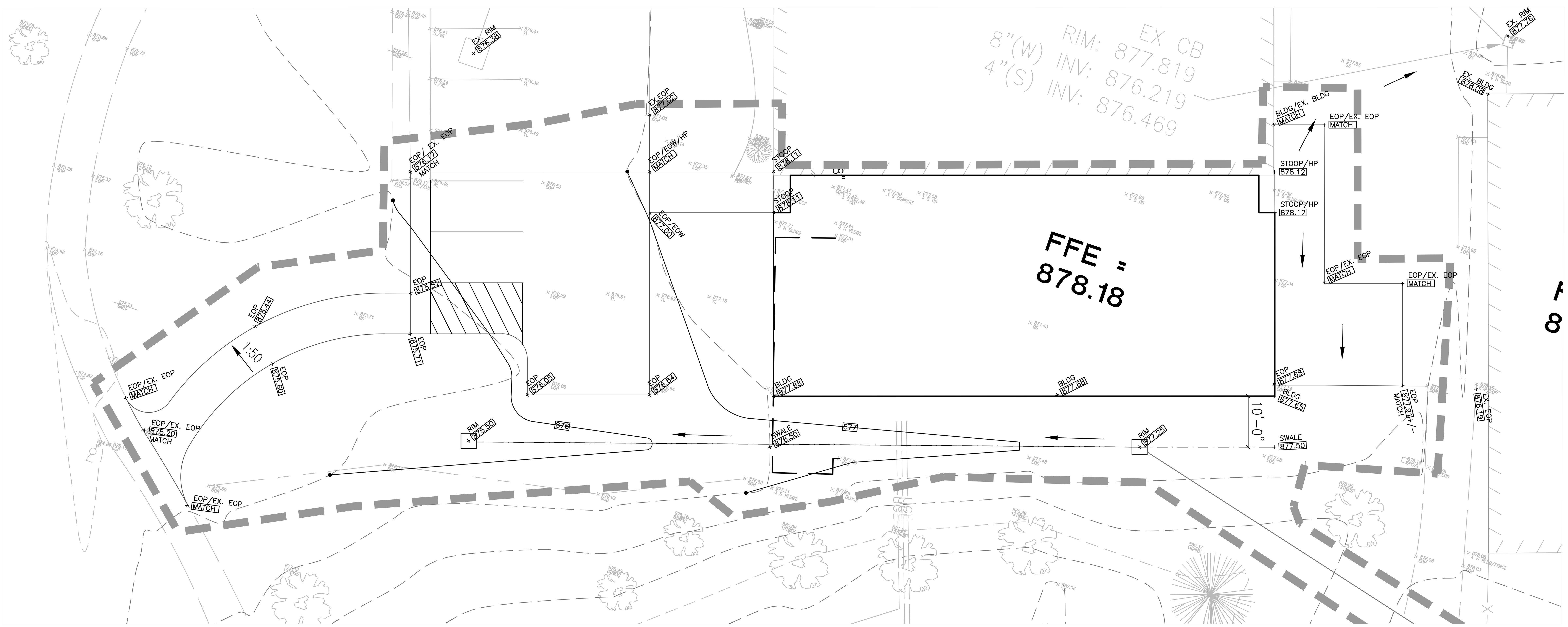


GRADING PLAN - NORTH

SCALE: 1" = 10'-0"

0 5' 10' 20'
SCALE: 1" = 10'-0"

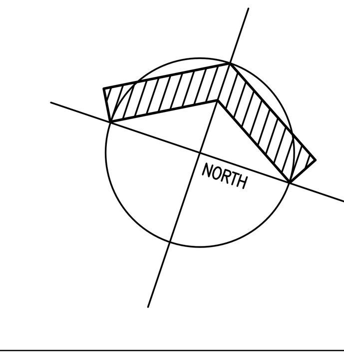




GRADING PLAN - SOUTH

SCALE: 1" = 10'-0"

0 5' 10' 20'
SCALE: 1" = 10'-0"



PLAN NOTES

1. GRADES SHOWN ARE FINISH ELEVATIONS. CONTRACTOR IS TO CONSULT THE SURVEY TO DETERMINE CUT/FILL REQUIREMENTS.
2. CONTRACTOR IS TO MEET PROPOSED GRADES. IF ADDITIONAL MARTERIALS ARE NEEDED, THE FURNISHING AND PLACEMENT OF THESE MATERIALS IS CONSIDERED INCIDENTAL TO THE CONTRACT SCOPE. IF THERE ARE EXCESS MARTERIALS, THE HAULING AND DISPOSAL OF THESE MATERIALS OFF SITE IS CONSIDERED INCIDENTAL TO THE CONTRACT SCOPE.

▬ ▬ ▬ CONSTRUCTION LIMITS

SPOT
ELEV. +
NOTE

PLAN KEY

HP = LOCATION AND ELEVATION OF HIGH POINT
LP = LOCATION AND ELEVATION OF LOW POINT
TOC = ELEVATION AT TOP OF CURB
BOC = ELEVATION AT BOTTOM OF EXPOSED CURB
TOR = ELEVATION AT TOP OF RAMP
BOR = ELEVATION AT BOTTOM OF RAMP
TOS = ELEVATION AT TOP OF STAIRS
BOS = ELEVATION AT BOTTOM OF STAIRS
TOW = ELEVATION AT TOP OF WALL
BOW = ELEVATION AT BOTTOM OF WALL
FFE = FINISH FLOOR ELEVATION
STOOP = ELEVATION AT END OF STOOP
EX. RIM = ELEVATION OF EXISTING STORM STRUCTURE COVER TO REMAIN
RIM = ELEVATION OF STORM STRUCTURE COVER
SIGN = ELEVATION OF BOTTOM OF SIGN
INV = ELEVATION AT FLOW LINE OF STORM LINE
BLDG = ELEVATION OF GRADE AT BLDG.
POINT = GROUND SPOT ELEVATION
EOP = ELEVATION AT EDGE OF PAVEMENT
EOW = ELEVATION AT EDGE OF WALK
BREAK = CHANGE DIRECTION OR DEGREE OF SLOPE
FLOW = INTENDED DIRECTION OF WATER FLOW
#% = PERCENTAGE SLOPE
——► = DOWN SLOPE DIRECTION
-------- = BREAK LINE IN GRADE DIRECTION OF DEGREE OF SLOPE

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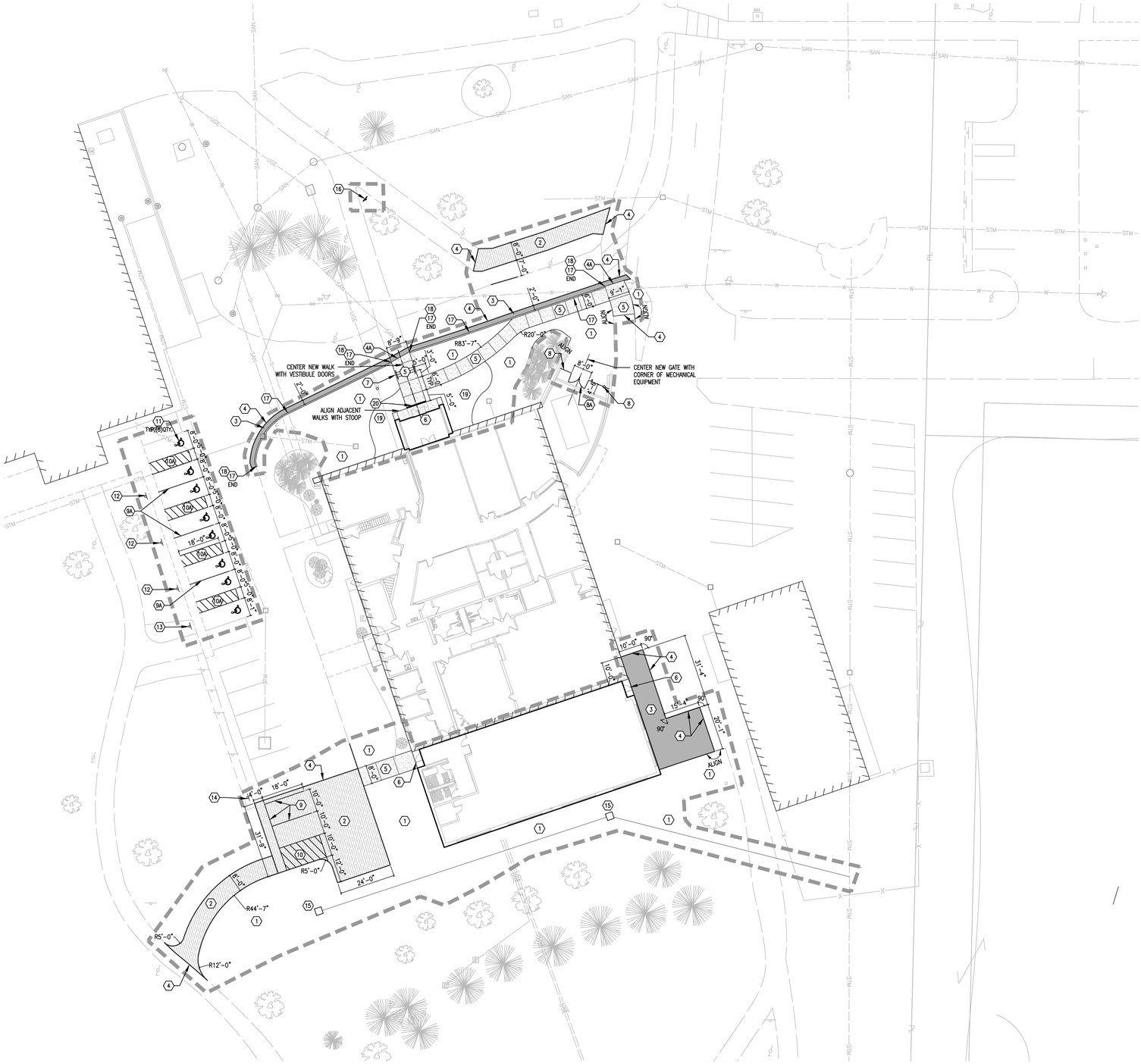
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JENNIFER M. FULLER
1115297
REGISTERED ARCHITECT
Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

DRAWN BY: KNB
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PROJECT ISSUE DATE: 09.04.26

REV. NO.△	DESCRIPTION	DATE

GRADING PLAN

L-201



LAYOUT PLAN

SCALE: 1" = 20'-0"

MASTER LAYOUT KEYNOTE LEGEND

- CONSTRUCTION LIMITS
- (1) SOD ALL DISTURBED AREAS, REFER TO THE PROJECT MANUAL
- (2) STANDARD DUTY ASPHALT PAVEMENT, SEE DETAIL 1/L-401 AND THE PROJECT MANUAL
- (3) HEAVY DUTY ASPHALT PAVEMENT, SEE DETAIL 2/L-401 AND THE PROJECT MANUAL
- (4) NEW PAVEMENT TO MEET EXISTING PAVEMENT FLUSH, MAINTAIN STORM WATER FLOWS. SAW CUT EXISTING PAVEMENT AND FOLLOW DETAILS 3 & 5/L-401
- (4A) PROVIDE ½" RAISED LIP ON CONCRETE WALK AT EDGE OF ASPHALT PAVEMENT TO DIRECT STORM WATER FLOWS BEYOND WALKWAY.
- (5) CONCRETE WALK, REFER TO DETAIL 4/L-401 AND THE PROJECT MANUAL
- (6) CONCRETE STOOP, SEE ARCHITECTURAL AND STRUCTURAL SERIES DRAWINGS
- (7) CONCRETE STAIRS WITH PAINTED (BLACK) GALVANIZED STEEL HANDRAIL, SEE DETAIL 6/L-401 AND THE PROJECT MANUAL
- (8) ALTERNATE: 8' HEIGHT BLACK PVC COATED CHAIN LINK FENCE WITH PRIVACY SLATS, SEE DETAIL 10/L-401 AND THE PROJECT MANUAL
- (8A) ALTERNATE: 8' HEIGHT BLACK PVC COATED CHAIN LINK DOUBLE LEAF GATE WITH PRIVACY SLATS, REFER TO PLAN FOR OPENING WIDTH, SEE DETAIL 10/L-401 AND THE PROJECT MANUAL
- (9) 4 INCH WIDE PAINTED WHITE LINE, REFER TO THE PROJECT MANUAL
- (9A) 4 INCH WIDE PAINTED BLUE LINE, REFER TO THE PROJECT MANUAL
- (10) 4 INCH WIDE PAINTED WHITE LINES AT 45° ANGLE FROM ROADWAY CENTERLINE WITH 2 FOOT SPACING, REFER TO PROJECT MANUAL
- (10A) 4 INCH WIDE PAINTED BLUE LINES AT 45° ANGLE FROM ROADWAY CENTERLINE WITH 2 FOOT SPACING, REFER TO PROJECT MANUAL
- (11) ACCESSIBLE PARKING LOGO, MATCH EXISTING
- (12) SALVAGED AND RELOCATED ACCESSIBLE PARKING SIGN AND SIGN POSTS
- (13) NEW "VAN ACCESSIBLE" PARKING SIGN AND SIGN POST, SEE DETAILS 7D, 7E, 8 & 9/L-401 AND THE PROJECT MANUAL
- (14) SALVAGED AND RELOCATED "STAFF PARKING ONLY" SIGN AND SIGN POST
- (15) NEW STORM INLET, REFER TO THE SITE UTILITIES PLAN
- (16) NEW "ACCESSIBLE ROUTE" SIGN AND SIGN POST, SEE DETAILS 7S, 7E, 8 & 9/L-401 AND THE PROJECT MANUAL
- (17) CONCRETE CURB, SEE DETAIL 11/L-401 AND THE PROJECT MANUAL
- (18) CURB TAPER, SEE DETAIL 12/L-401 AND THE PROJECT MANUAL
- (19) PLANT BED, REFER TO SHEET L-501 AND THE PROJECT MANUAL
- (20) DURASLOT XL TRENCH DRAIN MANUFACTURED BY ADS, INC. (OR APPROVED EQUAL) INSTALLED IN CONCRETE WITH 6" WIDE GRATE OPENING. GRATE TO BE DECORATIVE PATTERN THAT IS ADA, HEEL-PROOF, AND MADE OF DUCTILE IRON. RECEIVING PIPE RUNNING UNDERNEATH TRENCH SYSTEM TO BE 6" DIAMETER. INSTALL PER MANUFACTURER GUIDELINES. REFER TO SITE UTILITIES PLAN FOR CONNECTION TO STORM SYSTEM.

GENERAL NOTES

1. CONTRACTOR IS TO CONFIRM EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES TO THE ARCHITECT PRIOR TO COMMENCING WORK.
2. ALL LAYOUT IS TO BE STAKED BY A LICENSED PROFESSIONAL SURVEYOR PRIOR TO CONSTRUCTION.
3. DIMENSIONS ARE GIVEN TO THE FACE OF EXTERIOR WALLS.
4. SEAL ALL CONCRETE AND PAVEMENT ISOLATION JOINTS.
5. SEE ARCHITECTURAL SERIES DRAWINGS FOR BUILDING LAYOUT AND DIMENSIONS.
6. SEE STRUCTURAL SERIES DRAWINGS FOR STOOP DETAILS AND DIMENSIONS.
7. SEE ELECTRICAL SERIES DRAWINGS FOR SITE LIGHTING PLAN, INSTALLATION DIRECTIONS, DETAILS, ETC.
8. SEE MECHANICAL SERIES DRAWINGS FOR MECHANICAL EQUIPMENT PLAN, INSTALLATION DIRECTIONS, DETAILS, ETC.
9. SEE CIVIL SERIES DRAWINGS FOR UTILITY PLAN, INSTALLATION DIRECTIONS, DETAILS, ETC.
10. ISOLATION JOINTS TO BE PLACED BETWEEN CONCRETE FLATWORK AND VERTICAL WALLS, COLUMNS, PROTRUDING FOOTINGS AND AT INTERVALS OF 30 FEET MAXIMUM BETWEEN ADJACENT CONCRETE FLATWORK SUCH AS CONCRETE CURBS AND WALKS.

0 10' 20' 40'

SCALE: 1" = 20'-0"

NORTH

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JENNIFER M FULLER
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Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

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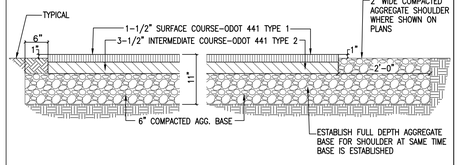
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REV. NO.	DESCRIPTION	DATE

LAYOUT PLAN

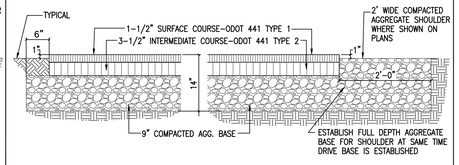
L-301

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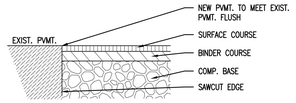
1 STD. ASPHALT DUTY PVMT. @ GRADE

NOT TO SCALE



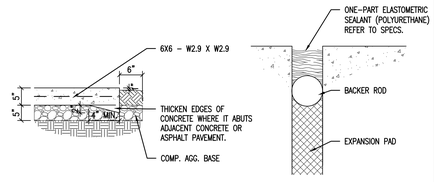
2 HVY. DUTY ASPHALT PVMT. AT GRADE

NOT TO SCALE



3 NEW ASPH. PVMT. @ EXISTING PVMT.

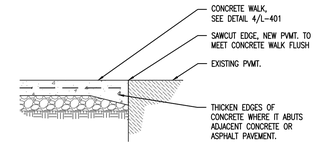
NOT TO SCALE



5" CONC. WALK **ISOLATION JOINT**

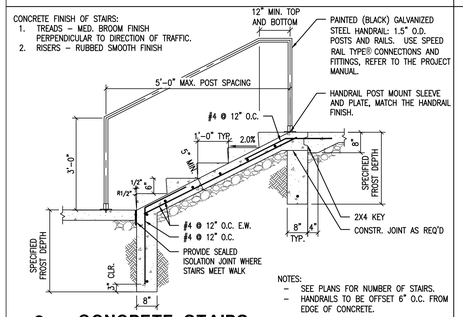
4 5" CONC. WALK

NOT TO SCALE



5 CONC. WALK AT ASPHALT PVMT.

NOT TO SCALE



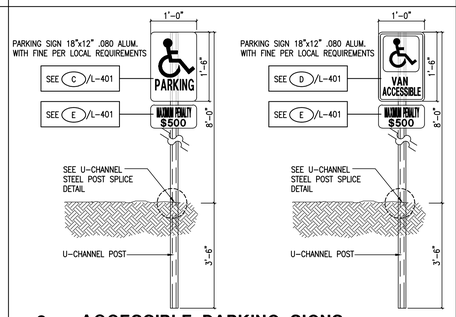
6 CONCRETE STAIRS

1/2" = 1'-0"

C	DISABILITY ACCESSIBLE SYMBOL "PARKING"	18" x 12" 18 GAUGE, STEEL BLUE BACKGROUND WHITE TEXT, SYMBOL, BORDERS
D	DISABILITY ACCESSIBLE SYMBOL "VAN ACCESSIBLE"	18" x 12" 18 GAUGE, STEEL BLUE BACKGROUND WHITE TEXT, SYMBOL, BORDERS
E	"MAXIMUM PENALTY $500"	6" x 12" 18 GAUGE, STEEL BLUE BACKGROUND WHITE TEXT, BORDERS
S	"ACCESSIBLE ROUTE"	18" x 12" 18 GAUGE, STEEL BLUE BACKGROUND WHITE TEXT, SYMBOLS, BORDERS

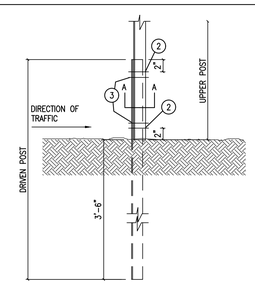
7 SIGN SCHEDULE

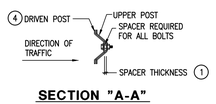
3/4" = 1'-0"



8 ACCESSIBLE PARKING SIGNS

NOT TO SCALE





SECTION "A-A"

9 U CHANNEL STEEL POST SPLICE

3/4" = 1'-0"

GENERAL NOTES

1. THE SPACER THICKNESS SHALL BE 1/16" LESS THAN THE GAP BETWEEN THE POSTS WHEN POSITIONED IN THE UNBOLTED CONFIGURATION.
2. THE EXTERIOR BOLT, SPACER, WASHER AND NUT SHALL BE INSTALLED IN A PREPUNCHED HOLE WITHIN THE FIRST 2" OF THE END OF THE LAPPED POST SECTION.
3. THE INTERIOR BOLT, SPACER, WASHER AND NUT SHALL BE INSTALLED IN A PREPUNCHED HOLE WITHIN THE FIRST 2" OF THE EXTERIOR BOLTS. THE MAXIMUM SPACING BETWEEN THE INTERIOR BOLTS SHALL BE 1'-6". IF THE LENGTH OF THE POST LAP IS INCREASED SUCH THAT THIS 1'-6" MAXIMUM IS EXCEEDED, THEN ADDITIONAL INTERIOR BOLTS SHALL BE INSTALLED SUCH THAT THE MAXIMUM SPACE BETWEEN A PAIR OF INTERIOR BOLTS DOES NOT EXCEED THE 1'-6" LIMIT POST LAP IS TO BE ADJUSTED TO MEET MANUFACTURERS RECOMMENDATIONS.
4. THE DRIVEN POST SHALL ALWAYS BE MOUNTED IN FRONT OF THE UPPER POST WITH RESPECT TO ADJACENT ONCOMING TRAFFIC, REGARDLESS OF THE DIRECTION THE SIGN IS FACING.
5. THE BOLTS SHOWN SHALL BE 3/8" BY 2" GALVANIZED BOLTS IN ACCORDANCE WITH ASTM A 449, OR SAE J429, GT.9; OR GALVANIZED BOLTS IN ACCORDANCE WITH ASTM A 325.

10 FENCE FOOTING AT MECH. YARD

3/4" = 1'-0"

11 BARRIER CURB AT WALK AND LAWN

NOT TO SCALE

12 CURB TAPER

NOT TO SCALE

TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

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128 W Market St, Celina, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO JENNIFER M. FULLER 1115297 REGISTERED ARCHITECT

Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

DRAWN BY: KNB

PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.26

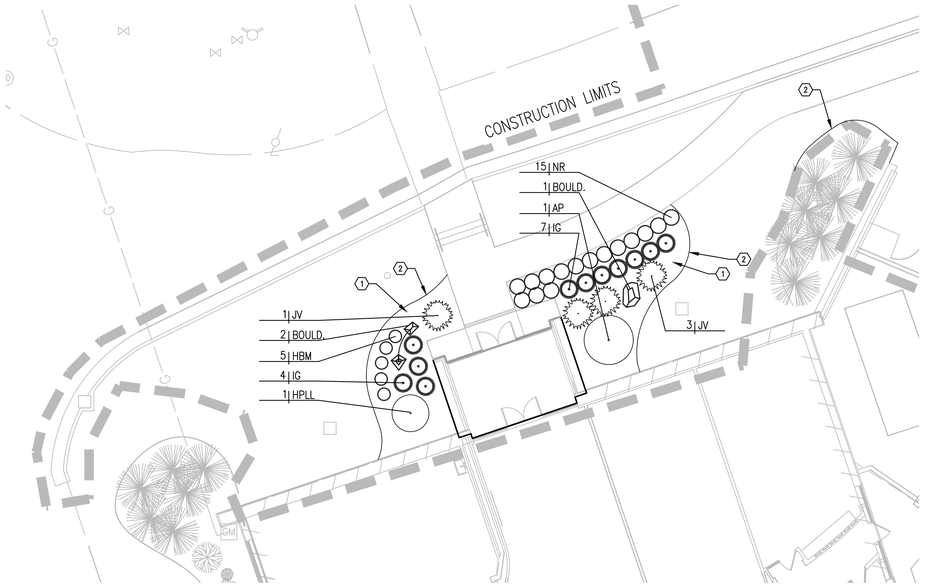
REV. NO.	DESCRIPTION	DATE

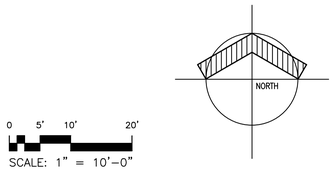
DETAILS AND SECTIONS

L-401

PLANTING SCHEDULE

KEY	ALT	BASE	SCIENTIFIC NAME	COMMON NAME	SIZE	COMMENT
TREES						
AP	1		ACER PALMATUM 'TWOMBLEY'S RED SENTINEL'	TWOMBLY'S RED SENTINEL JAPANESE MAPLE	6'-8'	B&B SINGLE LEADER
SHRUBS						
HPLL	1		HYDRANGEA PANICULATA 'LIMELIGHT'	LIMELIGHT HYDRANGEA	18"-24"	CONT.
IG	11		ILEX GLABRA 'GEM BOX'	GEM BOX INKBERY HOLLY	12-18"	CONT.
JV	4		JUNIPERUS VIRGINIANA 'GREY OWL'	GREY OWL JUNIPER	12"-15"	CONT.
GRASSES AND PERENNIALS						
HBM	5		HEUCHERA SANGUINEA 'RUBY BELLS'	RUBY BELLS CORAL BELLS	#1 POT	CONT.
NR	15		NEPETA RACEMOSA 'WALKER'S LOW'	WALKER'S LOW CATMINT	#1 POT	CONT.
BOULDERS						
BOULD	3		EXIST. BOULDERS RELOCATED FROM MECHANICAL YARD AREA			SET 1/3 OF BOULDER HEIGHT IN GROUND





PLANTING PLAN - ALTERNATE

SCALE: 1" = 10'-0"

PLANTING PLAN KEYNOTE LEGEND

CONSTRUCTION LIMITS

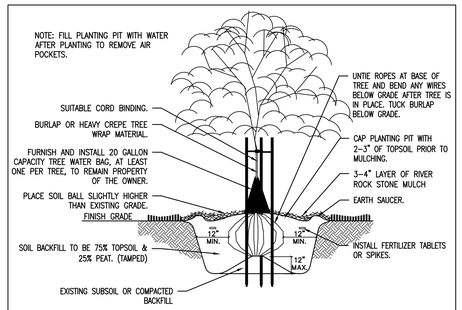
1. PLANTING AREA WITH 12" TOPSOIL AND 3-4" DEPTH OF ¾" DIAMETER RIVER ROCK STONE MULCH
2. SHOVEL CUT BED EDGE

LEGEND

QTY. | TAG — BASE BID PLANT MATERIAL

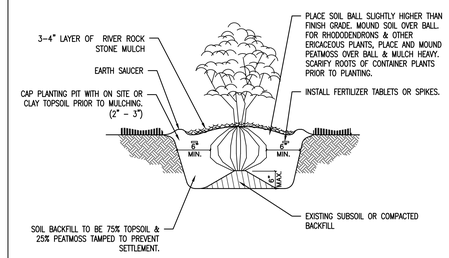
GENERAL LANDSCAPE NOTES

1. LANDSCAPING INCLUDES FURNISHING AND PLANTING OF PLANTS AS INDICATED WITH A 3"-4" DEPTH STONE MULCH IN BEDS.
2. ALL PLANTING SHALL BE DONE IN ACCORDANCE WITH THE PROJECT MANUAL.
3. LAWN WORK SHALL INCLUDE SODDING ALL "DISTURBED" AREAS. REQUIRED 6" OF TOPSOIL FOR LAWN AREAS.
4. CONTRACTOR SHALL CONFIRM LOCATION OF ALL UTILITIES AND SUBSURFACE DRAINS. CONTRACTOR TO REPAIR ALL DAMAGES TO EXISTING UTILITIES, CURBS, PAVEMENTS, ETC., RESULTING FROM LANDSCAPE INSTALLATIONS THAT OCCUR DURING THE INSTALLATION PROCESS.
5. ALL PLANTING OPERATIONS AND MATERIALS SHALL ADHERE TO THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1) AND THE PROJECT MANUAL.
6. PLANTING FOR ALL PLANTS SHALL BE PER DETAILS 1, 2, & 3/L-501.
7. CONTRACTOR SHALL PREPARE AND SOD AREAS AS INDICATED ACCORDING TO THE PROJECT MANUAL.
8. THE CONTRACTOR SHALL MAINTAIN THE COMPLETED LANDSCAPE UNTIL THE DATE OF FINAL ACCEPTANCE.
9. CONTRACTOR SHALL PERFORM CLEANUP OPERATIONS OF THE SITE DURING INSTALLATION OF LANDSCAPE MATERIALS AND UPON COMPLETION OF THE WORK. REMOVE FROM SITE ALL EXCESS LANDSCAPE RELATED MATERIAL, SOIL DEBRIS AND EQUIPMENT. REPAIR DAMAGE RESULTING FROM LANDSCAPE OPERATIONS.



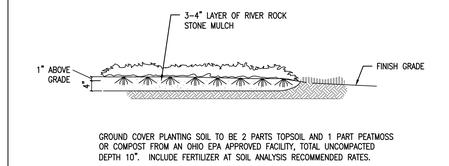
1 DECIDUOUS TREE PLANTING

NOT TO SCALE



2 SHRUB PLANTING

NOT TO SCALE



GROUND COVER PLANTING SOIL TO BE 2 PARTS TOPSOIL AND 1 PART PEATMOSS OR COMPOST FROM AN OHIO EPA APPROVED FACILITY, TOTAL UNCOMPACTED DEPTH 10". INCLUDE FERTILIZER AT SOIL ANALYSIS RECOMMENDED RATES.

3 GROUND COVER OR PERENNIAL BED

NOT TO SCALE

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ARCHITECT

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Jennifer M. Fuller License # 1115297
Expiration Date 12/31/2027

DRAWN BY: KNB

PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

PLANTING PLAN

L-501

UTILITY STATEMENT

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. ACCESS ENGINEERING SOLUTIONS, LLC MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA EITHER IN-SERVICE OR ABANDONED. ACCESS ENGINEERING SOLUTIONS, LLC FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH ACCESS ENGINEERING SOLUTIONS, LLC DID LOCATE AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. ACCESS ENGINEERING SOLUTIONS, LLC HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
THE AREA SURVEYED HAS ACCESS TO ELECTRIC, GAS, AND WATER.

LEGEND

- WELL
- WATER METER
- WATER SERVICE
- WATER VALVE
- FIRE HYDRANT
- GUIDE WIRE
- PWR POLE
- ELEC BOX
- SIGN
- MAILBOX
- FLAG POLE
- GAS VALVE
- GAS METER
- TELEPHONE BOX
- TELE POLE
- LIGHT POLE
- LIGHT
- MANHOLE STRUCTURE
- CATCH BASIN
- POST
- STUMP
- PINE
- BUSH
- 37"-48" TREE
- 25"-36" TREE
- 12"-24" TREE
- 1"-11" TREE

- RIGHT OF WAY
- PROPERTY LINE
- PAVEMENT
- CONCRETE
- CURB
- SIDEWALK
- FENCE
- GAS LINE
- OVERHEAD ELECTRIC
- SANITARY SEWER
- STORM SEWER
- WATERLINE
- TELEPHONE LINE

BENCHMARKS:

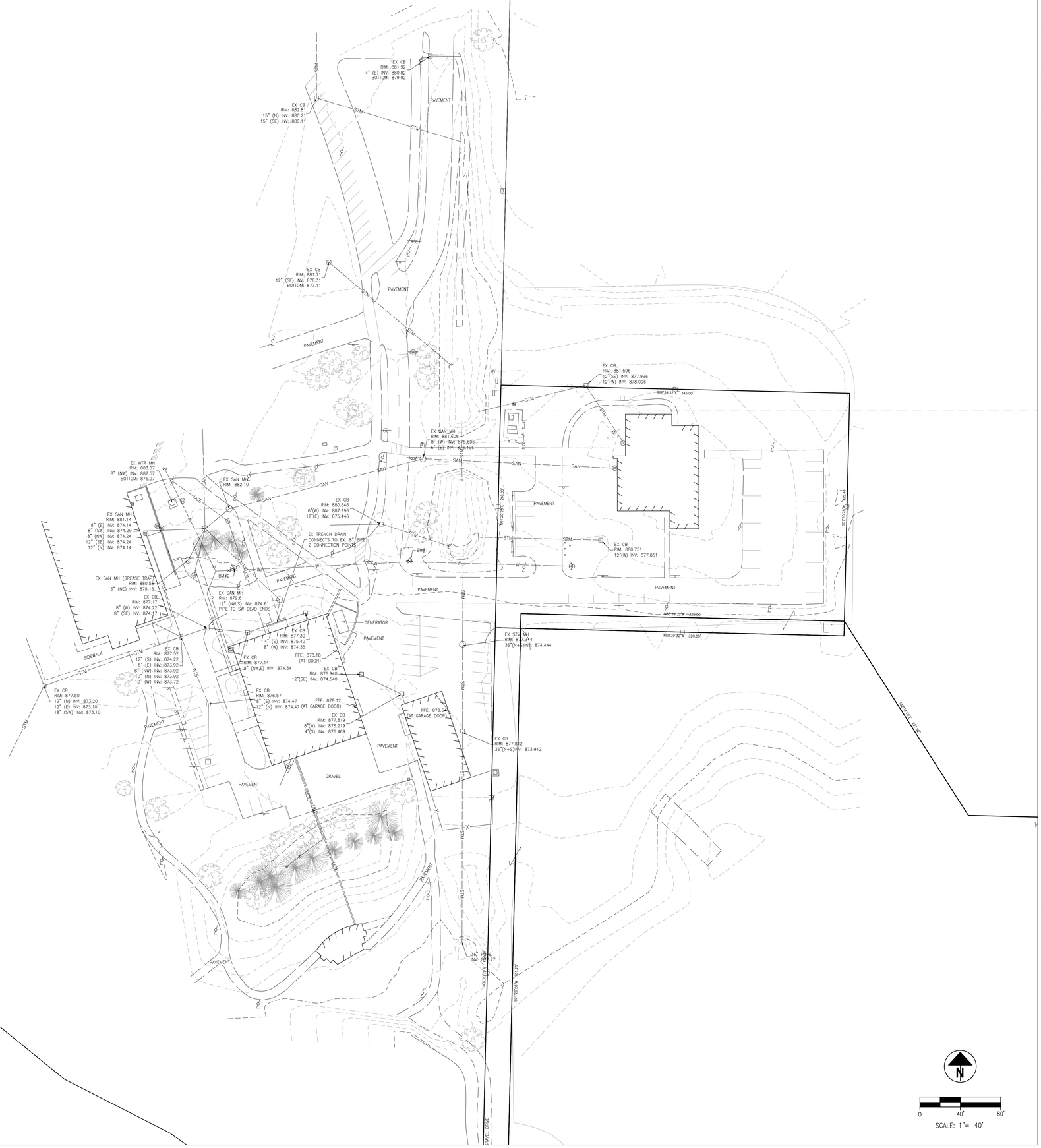
BM#1
TOP NUT OF FIRE HYDRANT NORTHEAST OF BUILDING.
ELEV: 883.17
BM#2
TOP NUT OF FIRE HYDRANT NORTHWEST OF BUILDING.
ELEV: 882.96

STATE OF OHIO
CRAIG W. MESCHER
8237
REGISTERED PROFESSIONAL SURVEYOR

SURVEYOR'S CERTIFICATE

CRAIG W. MESCHER, P.S. #8237 DATE

ACCESS Engineering Solutions
www.accessengllc.com | 419-586-1430



N
0 40' 80'
SCALE: 1"= 40'

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CONSTRUCTION DOCUMENTS

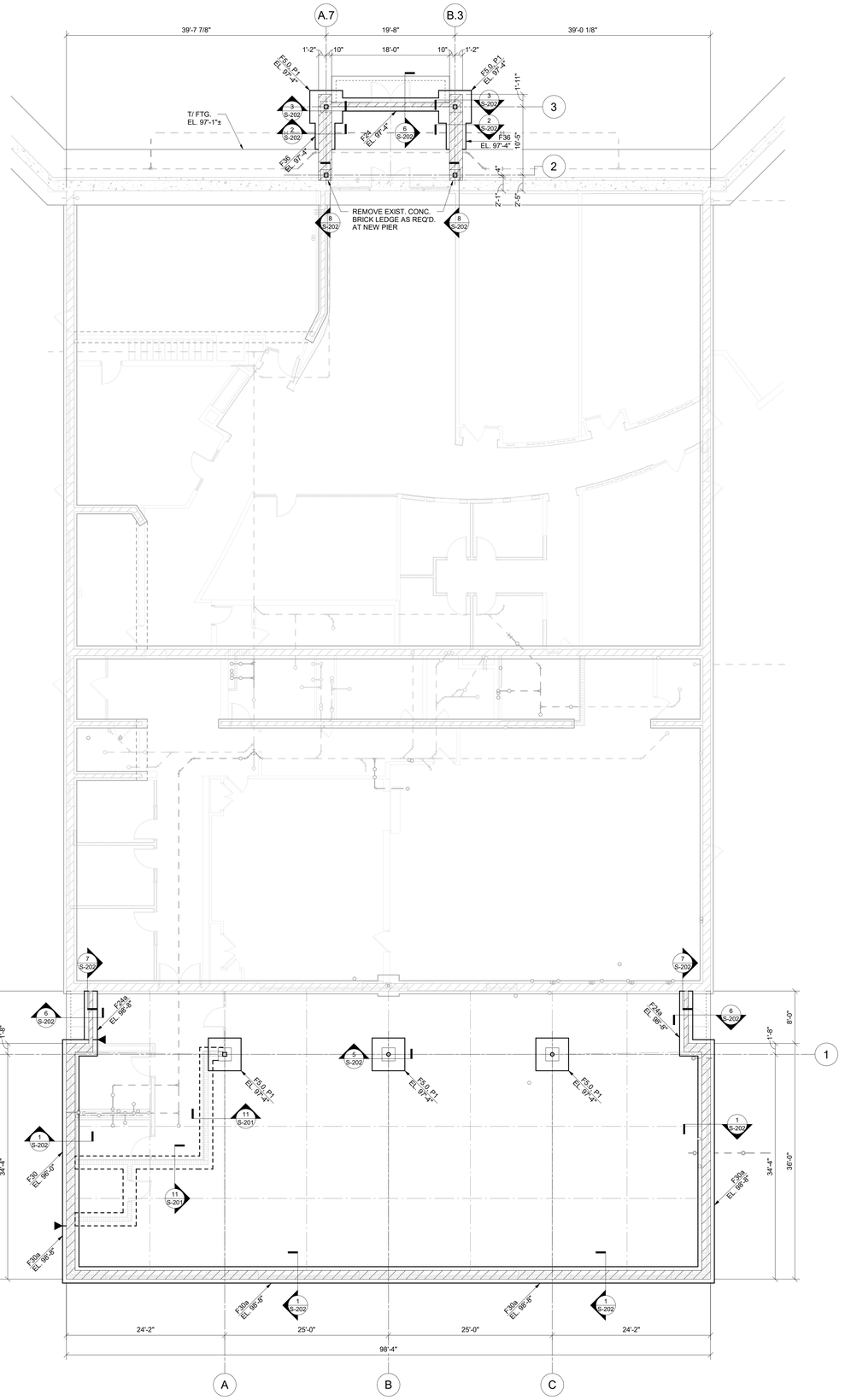
STATE OF OHIO
NANCY K. TOBE
67546
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: NKT
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

SURVEY BASEMAP

V-101



FOUNDATION PLAN

1/8" = 1'-0"

FOUNDATION NOTES

1. ▼ INDICATES FOOTING STEP PER SECTION 1/S-201. STEP AT A RATIO NOT TO EXCEED ONE VERTICAL TO TWO HORIZONTAL.
2. ( ) INDICATES APPROXIMATE LOCATION AND INVERT ELEVATION OF UNDERGROUND UTILITIES. COORDINATE THE LOCATION AND DEPTH OF ALL UNDERGROUND MECHANICAL, ELECTRICAL, PLUMBING, AND/OR CIVIL WORK WITH THE APPROPRIATE TRADE CONTRACTOR(S) PRIOR TO CONSTRUCTION. NOT ALL UNDERGROUND UTILITIES ARE SHOWN ON THE STRUCTURAL DRAWINGS. FOUNDATIONS BUILT PRIOR TO THE INSTALLATION OF UNDERGROUND UTILITIES ARE TO BE STEPPED OR DROPPED COMPLETELY BELOW THE UTILITY DEPTH PER SECTION 1/S-201 AND SLEEVED PER SECTION 2/S-201. WHERE UNDERGROUND UTILITIES ARE IN PLACE PRIOR TO FOUNDATION CONSTRUCTION, THEY ARE TO BE ENCASED PER SECTION 3/S-201. SEE SECTION 4/S-201 FOR TRENCH EXCAVATION AND UTILITY PLACEMENT REQUIREMENTS FOR WORK THAT IS LAID ADJACENT TO FOOTINGS.
3. P(x) INDICATES CONCRETE PIER TYPE PER DETAILS ON SHEET S-201.
4. INDICATES EXISTING BUILDING CONSTRUCTION BASED ON ORIGINAL BUILDING DRAWINGS AND LIMITED FIELD INVESTIGATION. EXISTING CONDITIONS, DIMENSIONS, ELEVATIONS, ETC. ARE TO BE VERIFIED PRIOR TO CONSTRUCTION OR FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT FIRST PROVIDING TEMPORARY SHORING AND BRACING. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.
5. DESIGN SOIL BEARING PRESSURE = 3,000 PSF BASED ON GEOTECHNICAL EXPLORATION REPORT BY CTL ENGINEERING DATED JANUARY 28, 2025. REFERENCE THIS REPORT FOR ANY REQUIRED SOIL REMEDIATION PRIOR TO FOUNDATION AND/OR SLAB-ON-GRADE CONSTRUCTION. FOOTING EXCAVATIONS MAY BE REQUIRED TO EXTEND THROUGH EXISTING FILL AND/OR FAT CLAY REGIONS IN ORDER TO BEAR ON SUITABLE MATERIAL. OVER-EXCAVATIONS ARE TO BE FILLED WITH LEAN CONCRETE OR CONTROLLED-DENSITY FLOWABLE FILL UP THE PLANNED BOTTOM OF FOOTING ELEVATION. NOTIFY GEOTECH CONCRETE PRIOR TO INSPECTION AND APPROVAL OF BEARING SURFACES BY SOILS ENGINEER.
6. BOTTOM OF FOOTINGS ARE TO BE AT LEAST 36-INCHES BELOW THE ADJACENT EXTERIOR FINISHED GRADE FOR FROST PROTECTION.
7. KEEP FOUNDATIONS FREE OF WATER AT ALL TIMES. REPLACE WEAKENED SOIL WITH LEAN CONCRETE OR FLOWABLE FILL.
8. ELEVATIONS SHOWN ON FOOTINGS INDICATE ELEVATION AT TOP OF FOOTING. REFERENCE ELEVATION/TOP OF CONCRETE SLAB ELEVATION AS NOTED ON PLANS. COORDINATE ABSOLUTE ELEVATION OF TOP OF SLAB WITH SITE DRAWINGS.
9. PROVIDE CORNER BARS AT ALL FOOTING AND CONCRETE WALL INTERSECTIONS PER DETAIL 5/S-201.
10. SEE SECTION 6/S-201 FOR TYPICAL OUTDOOR MECHANICAL EQUIPMENT PADS.
11. SEE SHEET S-401 FOR COLUMN SCHEDULE AND DETAILS.
12. SEE SHEET S-001 FOR GENERAL STRUCTURAL INFORMATION.

SLAB NOTES

1. SLAB CONSTRUCTION:
   4" CONCRETE SLAB ON GRADE W/ 6x6 W2.9/W2.9 WWF, OVER 15-MIL VAPOR BARRIER, OVER 4" COMPACTED STONE SUBBASE. WIRE MESH IS TO BE SUPPORTED DURING CONCRETE PLACEMENT ON CHAIRS OR BOLSTERS AT MID-DEPTH OF SLAB. MESH AND/OR STEEL REINFORCING IS NOT TO BE PULLED INTO PLACE DURING CONCRETE PLACEMENT.
2. INDICATES SLAB CONTROL/CONSTRUCTION JOINT PER SECTION 7/S-201. CONTROL JOINTS ARE TO BE LOCATED IN AREAS SHOWN AT A SPACING NOT TO EXCEED 12'-0" O.C. UNLESS DIMENSIONED OTHERWISE. PROVIDE CONTROL JOINTS AT COLUMNS AND WALLS. COORDINATE CONTROL JOINT LAYOUT WITH ARCHITECTURAL FLOOR FINISH PATTERNS.
3. REFER TO DIVISION 31 SPECIFICATIONS FOR DEPTH AND PLACEMENT OF DRAINAGE FILL AND DIVISION 3 FOR VAPOR BARRIER OR RETARDER BELOW SLABS ON GRADE.
4. SEE ARCHITECTURAL AND/OR STRUCTURAL PLANS FOR FINISHED FLOOR ELEVATIONS. COORDINATE TOP OF SLAB ELEVATION WITH THICKNESS OF ARCHITECTURAL FINISHED FLOOR PRODUCTS.
5. SEE SECTION 9/S-201 FOR TYPICAL NEW-TO-EXISTING SLAB TRANSITION. SEE SECTION 10/S-201 FOR TYPICAL FLOOR SLAB TRENCH INFILL.
6. SEE SHEET S-001 FOR GENERAL STRUCTURAL INFORMATION.

CONT. WALL FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F24	2'-0" x 1'-0" DP.	(2) #5 CONT. BOT.
F24a	2'-0" x 2'-2" DP.	(2) #5 CONT. TOP & BOT.
F30	2'-6" x 1'-0" DP.	(3) #5 CONT. BOT.
F30a	2'-6" x 2'-2" DP.	(3) #5 CONT. TOP & BOT.
F36	3'-0" x 1'-2" DP.	(3) #5 CONT. BOT.

SPREAD FOOTING SCHEDULE

MARK	SIZE	REINFORCING
F5.0	5'-0" x 5'-0" x 1'-3" DP.	(5) #6 EA. WAY BOT.

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WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

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128 W Market St, Celina, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
STANLEY N. FULLER
E-67148
REGISTERED
PROFESSIONAL ENGINEER

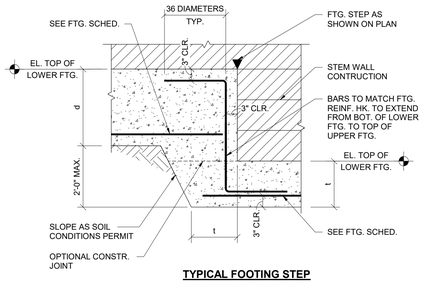
DRAWN BY: JPK (R25)
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

FOUNDATION PLAN

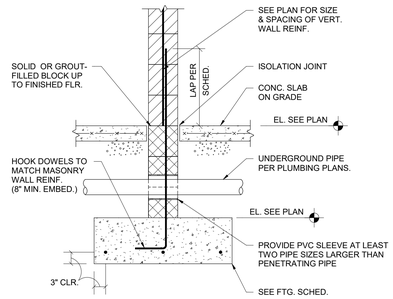
S-101

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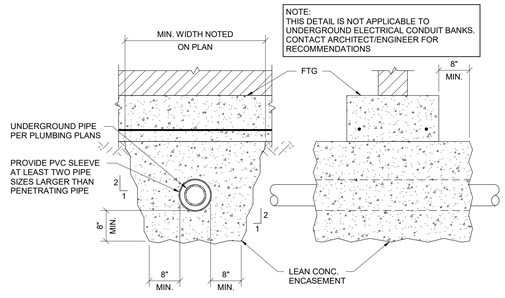
TYPICAL FOOTING STEP

SECTION 1 — 3/4" = 1'-0"



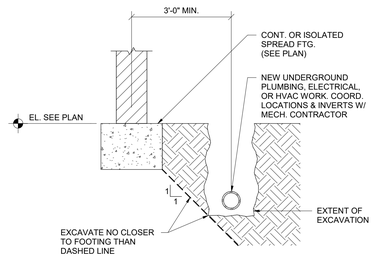
TYPICAL PLUMBING THROUGH STEMWALL

SECTION 2 — 3/4" = 1'-0"

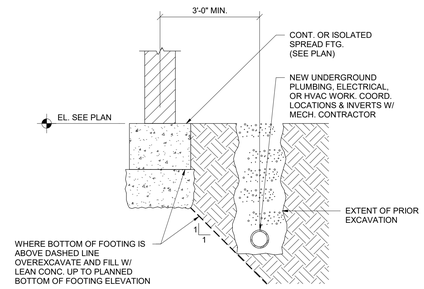


TYPICAL PLUMBING UNDER FOOTING

SECTION 3 — 3/4" = 1'-0"

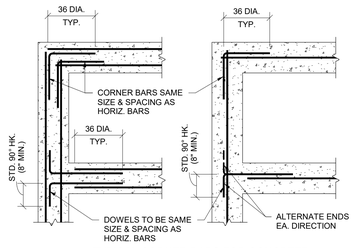


TYPICAL EXCAVATION CLEARANCE REQUIREMENTS AT NEW UNDERGROUND WORK



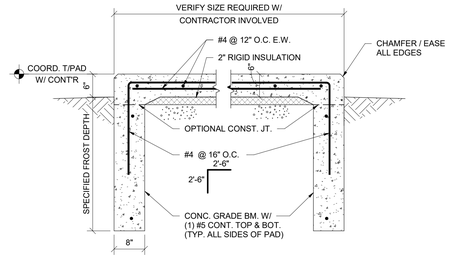
TYPICAL OVEREXCAVATION REQUIREMENTS AT IN-PLACE UNDERGROUND WORK

SECTION 4 — 3/4" = 1'-0"



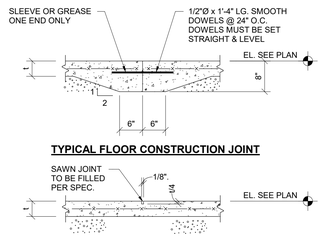
TYPICAL CORNER BARS FOR CONCRETE WALL AND FOOTING CONSTRUCTION

SECTION 5 — 3/4" = 1'-0"



TYPICAL EXTERIOR EQUIPMENT PAD

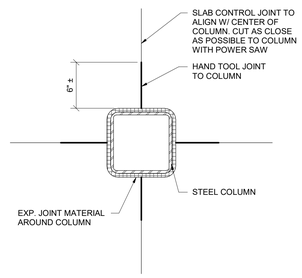
SECTION 6 — 3/4" = 1'-0"



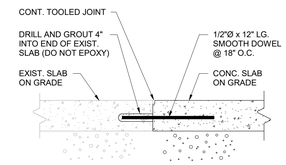
TYPICAL FLOOR CONSTRUCTION JOINT

TYPICAL FLOOR CONTROL JOINT

SECTION 7 — 3/4" = 1'-0"

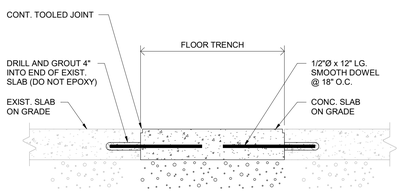


SECTION 8 — 1 1/2" = 1'-0"



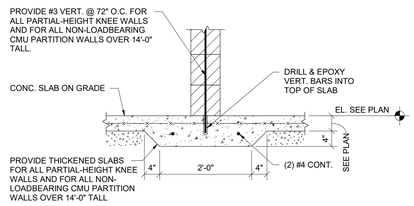
TYPICAL NEW-TO-EXISTING SLAB TRANSITION

SECTION 9 — 1 1/2" = 1'-0"



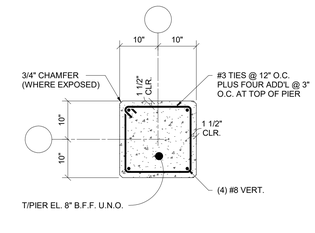
TYPICAL FLOOR TRENCH REPLACEMENT DETAIL

SECTION 10 — 1 1/2" = 1'-0"



TYPICAL THICKENED SLAB UNDER NON-LOADBEARING CMU WALL

SECTION 11 — 3/4" = 1'-0"



PIER P1

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7600 State Route 703
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ARCHITECT

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128 W Market St, Celina, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO — STANLEY N. FULLER E-67148 — REGISTERED PROFESSIONAL ENGINEER

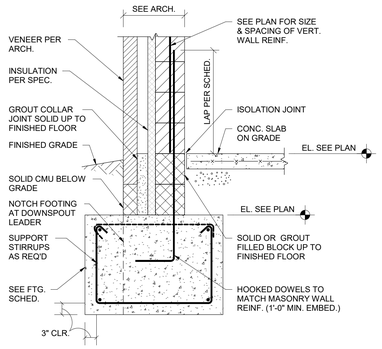
DRAWN BY: JPK (R25)
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

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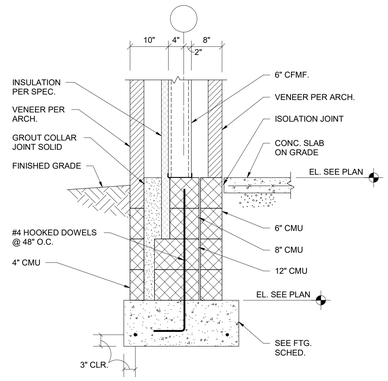
FOUNDATION DETAILS

S-201

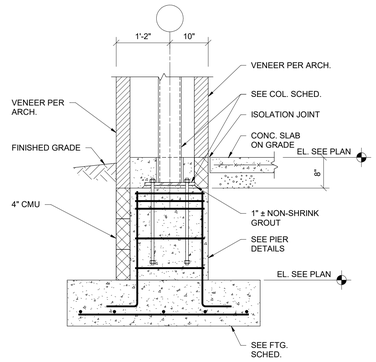
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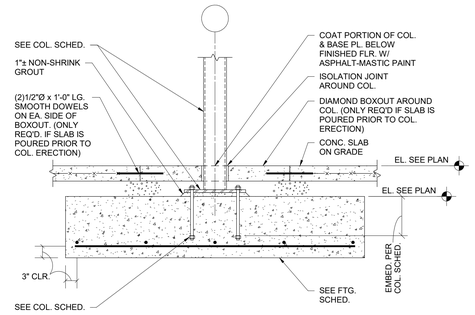
SECTION 1
3/4" = 1'-0"



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



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



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

SECTION 5
3/4" = 1'-0"

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

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

SECTION 8
3/4" = 1'-0"

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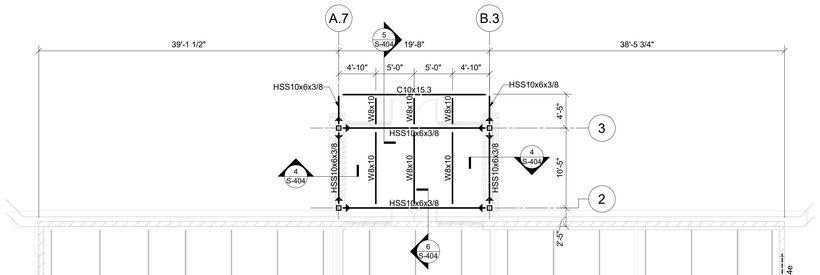
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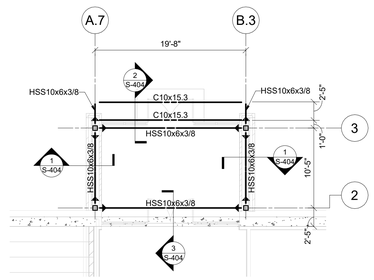
FOUNDATION DETAILS

S-202

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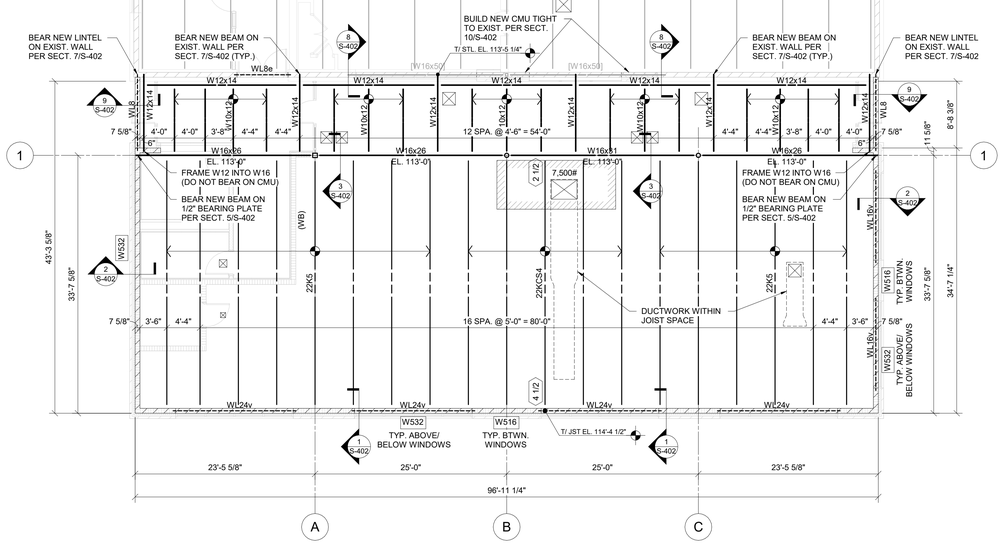
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ENTRY FRAMING PLAN (LOW)

1/8" = 1'-0"



ROOF FRAMING PLAN

1/8" = 1'-0"

ROOF FRAMING NOTES

1. DESIGN LIVE/SNOW LOADS:
   - ROOF LIVE — 20 PSF
   - ROOF SNOW — 22 PSF + DRIFT
   - WIND (NET UPLIFT) — -15 PSF
2. ROOF CONSTRUCTION: 1-1/2" x 22 GA WIDE RIB METAL DECK. SEE SECTION 2/S-401 FOR TYPICAL ATTACHMENT TO SUPPORTING STRUCTURE.
3. INDICATES ROOF OPENING. COORDINATE EXACT SIZE AND LOCATION WITH THE APPROPRIATE TRADE CONTRACTOR(S). NOT ALL OPENINGS ARE SHOWN ON THE STRUCTURAL DRAWINGS. SEE SECTION 5/S-401 FOR FRAMING FOR OPENINGS 6" DIAMETER AND LARGER. DO NOT CUT OR DRILL ANY STRUCTURAL MEMBERS FOR OPENINGS LESS THAN 6" DIAMETER.
4. WT# — INDICATES MECHANICAL LOAD SUPPORTED ON ROOF. COORDINATE FINAL SIZE, WEIGHT, LOCATION, AND OPENING REQUIREMENTS WITH MECHANICAL CONTRACTOR. TOLERANCE FOR LOCATION OF ACTUAL UNIT IS 2 FEET IN ANY DIRECTION FROM WHERE SHOWN ON THE STRUCTURAL DRAWINGS. PROVIDE SUPPORT FRAME PER SECTION 6/S-401 AND REINFORCE JOISTS AT SUPPORT LOCATIONS PER SECTION 1/S-401.
5. INDICATES SNOW DRIFT LOAD ON ROOF. JOISTS HAVE BEEN SIZED FOR THE LOAD SHOWN UNLESS NOTED OR SCHEDULED OTHERWISE.
6. # — INDICATES NON-STANDARD JOIST SEAT DEPTH. SEE SECTIONS AND DETAILS FOR ADDITIONAL INFORMATION.
7. INDICATES BEAM-TO-COLUMN MOMENT CONNECTION PER SECTION 6/S-401.
8. INDICATES EXISTING BUILDING CONSTRUCTION BASED ON ORIGINAL BUILDING DRAWINGS. FIELD VERIFY ALL DIMENSIONS, ELEVATIONS, CONDITIONS, DRAWINGS, ETC. ARE TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION AND FABRICATION OF ANY MATERIAL BY CONTRACTOR PERFORMING WORK IN EXISTING AREAS. REPORT ANY DISCREPANCIES TO ARCHITECT IMMEDIATELY. DO NOT REMOVE EXISTING LOAD-BEARING WALLS, COLUMNS, OR ANY SUCH STRUCTURE WITHOUT THE PRIOR APPROVAL OF THE ARCHITECT. WHERE NEW STRUCTURE IS TO BE INSTALLED, PROVIDE SHORING AND BRACING AS REQUIRED TO PROPERLY SUPPORT THE REMAINING STRUCTURE UNTIL THE NEW STRUCTURE IS IN PLACE AND PROPERLY BRACED.
9. TOP OF STRUCTURAL STEEL AND/OR JOIST BEARING ELEVATION NOTED ON PLAN. REFERENCE ELEVATION 100'-0" = TOP OF FIRST FLOOR SLAB ON GRADE.
10. SEE ARCHITECTURAL DRAWINGS FOR ANY DIMENSIONS NOT INDICATED HEREIN.
11. REINFORCE JOISTS AT CONCENTRATED LOADS PER SECTION 1/S-401.
12. ALL JOISTS ARE TO BE DESIGNED FOR NET UPLIFT AS DEFINED IN DESIGN LOADS ABOVE. PROVIDE BRIDGING IN ADDITION TO MINIMUM SJI REQUIREMENTS IF NEEDED.
13. SEE SHEET S-401 FOR COLUMN SCHEDULE AND DETAILS.
14. SEE SHEET S-001 FOR GENERAL STRUCTURAL INFORMATION.

MASONRY WALL NOTES

1. ML(d) — INDICATES MASONRY BOND BEAM LINTEL PER SECTION 1/S-403. USE STANDARD SCHEDULED BOND BEAM LINTELS FOR ALL EXPOSED ARCHITECTURAL OPENINGS IN NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.
2. WL(d) — INDICATES WIDE-FLANGE STEEL BEAM LINTEL PER SECTION 2/S-403. PROVIDE 1/4" SETTING PLATE AND 3/4" ANCHOR BOLTS EACH END PER SECTION 4/S-402.
3. VL(d) — INDICATES VENEER LINTEL PER SECTION 3/S-403. USE STANDARD SCHEDULED VENEER LINTELS FOR ALL OPENINGS IN BRICK OR MASONRY VENEERS UNLESS NOTED OTHERWISE.
4. AL(d)e — INDICATES STEEL ANGLE LINTEL IN EXISTING WALL PER SECTION 4/S-403. USE STANDARD SCHEDULED ANGLE LINTELS FOR ALL NEW OPENINGS IN EXISTING NON-LOADBEARING MASONRY WALLS UNLESS NOTED OTHERWISE.
5. WL(d)e — INDICATES WIDE-FLANGE STEEL BEAM LINTEL IN EXISTING WALL PER SECTION 5/S-403. PROVIDE 1/4" SETTING PLATE EACH END AND GROUT EXISTING MASONRY BEARING SOLID.
6. (WB) — INDICATES MASONRY WALL BRACE PER SECTION 6/S-403. WALL BRACES ARE TO BE LOCATED AS SHOWN AT A SPACING NOT TO EXCEED 16x THE NOMINAL WALL WIDTH (e.g. 12'-0" O.C. FOR 9" CMU). FOR ALL INTERIOR NON-LOADBEARING MASONRY PARTITIONS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT AT A CLOSER SPACING, WALL BRACES ARE ALSO TO BE LOCATED AT THE FREE ENDS OF WALLS WHERE SAME-HEIGHT CROSSWALLS DO NOT PROVIDE LATERAL SUPPORT WITHIN 6x THE NOMINAL WALL WIDTH (e.g. 4'-0" FOR 8" CMU).
7. SEE PLAN FOR VERTICAL MASONRY WALL REINFORCING. ALL REINFORCING IS TO RUN FULL HEIGHT OF WALL UNLESS NOTED OTHERWISE. WHERE SPACING OF VERTICAL REINFORCING IS INTERRUPTED BY OPENING IN WALL (DOOR, WINDOW, LOUVER, ETC.), PROVIDE ONE FULL-HEIGHT REINFORCING BAR AT EACH JAMB FOR EACH 4'-0" OF OPENING WIDTH. SEE SCHEDULE ON SHEET S-001 FOR LENGTH OF LAP SPLICES.
8. NOT ALL LINTELS ARE SHOWN ON THESE PLANS. SEE ARCHITECTURAL DRAWINGS FOR LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL EXPOSED OPENINGS. COORDINATE LOCATION, WIDTH, HEIGHT, AND ELEVATION OF ALL CONCEALED OPENINGS WITH APPROPRIATE TRADE CONTRACTOR. LINTELS SHOWN OFFSET FROM CENTERLINE OF WALL TYPICALLY INDICATE OPENINGS FOR MECHANICAL, ELECTRICAL, PLUMBING, AND/OR TECHNOLOGY WORK.
9. LINTELS ARE NOT REQUIRED FOR OPENINGS IN CMU WALLS LESS THAN 16" WIDE AND IN BRICK VENEERS LESS THAN 8" WIDE. MASONRY CONTRACTOR IS TO COORDINATE ALL OPENING REQUIREMENTS WITH APPROPRIATE TRADE CONTRACTOR.
10. SEE ELEVATION A/S-403 FOR TYPICAL REINFORCED MASONRY WALL CONSTRUCTION. PROVIDE CORNER BARS AT ALL MASONRY BOND BEAM INTERSECTIONS PER DETAIL 7/S-403.
11. PROVIDE CONTROL JOINTS IN ALL MASONRY WALLS AT A SPACING NOT TO EXCEED THREE TIMES THE WALL HEIGHT (e.g. 24'-0" FOR 8'-0" HIGH WALL) OR 40'-0", WHICHEVER IS LESS. PROVIDE CONTROL JOINTS AT EDGES OF LINTELS, CHANGES IN WALL HEIGHT, CHANGES IN WALL THICKNESS, WITHIN 2 FEET OF WALL CORNERS AND INTERSECTIONS, TRANSITIONS FROM INTERIOR WALL TO EXTERIOR WALL, AND TRANSITIONS FROM WALL BEARING ON FOUNDATION TO WALL BEARING ON FLOOR SLAB.
12. PROVIDE #3 VERTICAL REINFORCING BARS AT 72" O.C. FOR ALL PARTIAL-HEIGHT KNEE WALLS AND ALL NON-LOADBEARING MASONRY PARTITION WALLS GREATER THAN 14'-0" TALL UNLESS SHOWN OR NOTED OTHERWISE. VERTICAL REINFORCING IS NOT TYPICALLY REQUIRED FOR NON-LOADBEARING PARTITION WALLS UNDER 14'-0" TALL. SEE ARCHITECTURAL DRAWINGS FOR THE LOCATION OF ALL MASONRY WALLS NOT SHOWN ON THE STRUCTURAL DRAWINGS.
13. SEE SHEET S-001 FOR GENERAL STRUCTURAL INFORMATION.

MASONRY WALL REINFORCING SCHEDULE

MARK	VERTICAL REINFORCING	REMARKS
W372	#3 @ 72" O.C.	TYP. PARTITIONS OVER 14'-0" TALL
W532	#5 @ 32" O.C.	-
W516	#5 @ 16" O.C.	-

MASONRY WALL REINFORCING SCHEDULE NOTES:

1. ALL BARS TO BE CENTERED IN CELL UNLESS NOTED IN SCHEDULE. COORDINATE POSITION WITH STRUCTURAL DETAILS.
2. PROVIDE ADDITIONAL BARS AT JAMBS OF OPENINGS AS INDICATED IN THE TYPICAL REINFORCED MASONRY WALL ELEVATION. PROVIDE ADDITIONAL BARS AT SPECIFIC LOCATIONS AS INDICATED ON PLAN.
3. LAP ALL BARS PER STANDARD MASONRY REINFORCING LAP SCHEDULE ON GENERAL STRUCTURAL SHEETS.

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A

B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO — STANLEY N. FULLER E-67148 — PROFESSIONAL ENGINEER

DRAWN BY: JPK (R25)

PROJECT NUMBER: FH224102.00/WSU-231035

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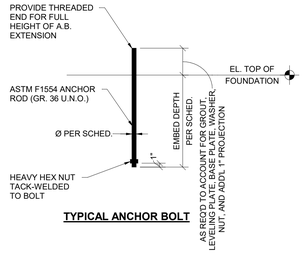
REV. NO.	DESCRIPTION	DATE

ROOF FRAMING PLAN

S-301

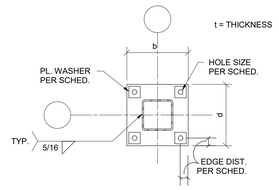
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Main Roof								Main Roof
113'-0"	HSS7x7x1/4	HSS7x7x3/8	HSS7x7x3/8	6"Ø STD PIPE	HSS7x7x3/8	HSS7x7x3/8	6"Ø STD PIPE	113'-0"
Foundation								Foundation
100'-0"								100'-0"
Column Locations	A-1	A.7-2	A.7-3	B-1	B.3-2	B.3-3	C-1	
BASE PLATE TYPE	A	A	A	A	A	A	A	BASE PLATE TYPE
BASE PLATE SIZE	3/4" x 14" x 14"	1" x 16" x 16"	1" x 16" x 16"	3/4" x 14" x 14"	1" x 16" x 16"	1" x 16" x 16"	3/4" x 14" x 14"	BASE PLATE SIZE
ANCHOR BOLTS SIZE	(4) 3/4"Ø W/ 9" EMBED.	(4) 1"Ø W/ 22" EMBED.	(4) 1"Ø W/ 22" EMBED.	(4) 3/4"Ø W/ 9" EMBED.	(4) 1"Ø W/ 22" EMBED.	(4) 1"Ø W/ 22" EMBED.	(4) 3/4"Ø W/ 9" EMBED.	ANCHOR BOLTS SIZE



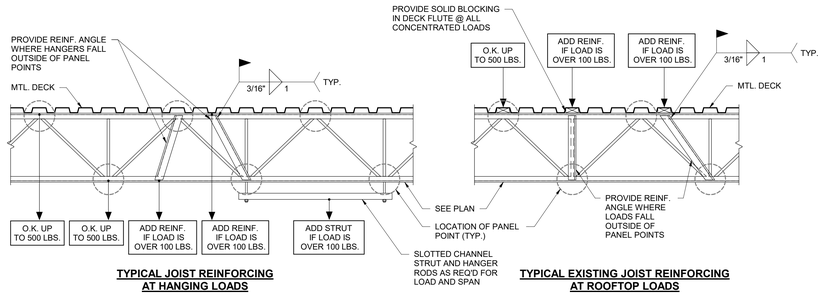
TYPICAL ANCHOR BOLT

BASE PLATE DETAILING SCHEDULE			
BOLT SIZE	BASE PLATE HOLE SIZE	EDGE DISTANCE	PLATE WASHER
3/4"Ø	1-5/16"Ø	1-1/2"	1/4" x 2-1/2" SQ.
1"Ø	1-13/16"Ø	2"	3/8" x 3" SQ.



TYPE A

BASE PLATE DETAILS



TYPICAL JOIST REINFORCING AT HANGING LOADS

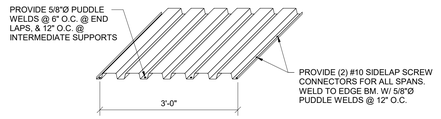
TYPICAL EXISTING JOIST REINFORCING AT ROOFTOP LOADS

JOIST REINFORCING NOTES

1. REINFORCING IS TYPICAL FOR ALL JOISTS SUPPORTING LOAD IN EXCESS OF 100 LBS. BETWEEN TOP OR BOTTOM CHORD PANEL POINTS. MAXIMUM CONCENTRATED LOAD BETWEEN PANEL POINTS SHALL NOT EXCEED 500 LBS.
2. IT IS THE MECHANICAL CONTRACTOR'S SOLE RESPONSIBILITY TO CALCULATE HANGER LOADS ON A CASE-BY-CASE BASIS AND INFORM THE GENERAL CONTRACTOR WHERE JOIST REINFORCEMENT IS REQUIRED.
3. REINFORCING ANGLE IS ONLY REQUIRED ON THE SIDE OF THE JOIST WHERE THE HANGER CLIP HARDWARE IS INSTALLED. FOR ROOFTOP LOADS, THE REINFORCING ANGLE MAY BE INSTALLED ON EITHER SIDE OF THE JOIST
4. SIZE OF REINFORCING ANGLE IS AS FOLLOWS:

JOIST DEPTH	ANGLE SIZE
LESS THAN 24"	L1 1/4 x 1 1/4 x 3/16
24" TO 48"	L2 x 2 x 3/16
48" TO 72"	L3 x 3 x 1/4

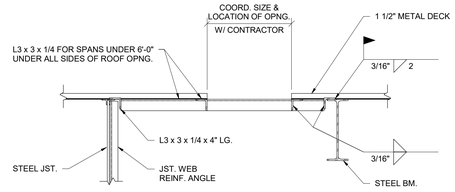
SECTION 1 — 3/4" = 1'-0"



1 1/2" METAL DECK ATTACHMENT TO STEEL STRUCTURE
(36/4 - 2 PATTERN)

MECHANICAL PIN FASTENING IS ACCEPTABLE IN LIEU OF WELDED FASTENING PROVIDED THAT SUBSTITUTION CALCULATIONS ARE SUBMITTED FOR APPROVAL PRIOR TO CONSTRUCTION.

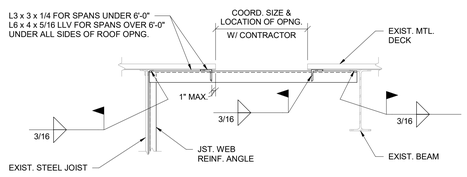
SECTION 2 — 3/4" = 1'-0"



OPENING FRAME IS TYPICAL FOR ALL ROOF PENETRATIONS GREATER THAN OR EQUAL TO 12" SQUARE OR 12" DIAMETER

TYPICAL ROOF OPENING FRAMING

SECTION 3 — 3/4" = 1'-0"

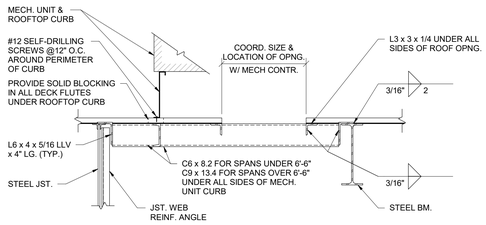


OPENING FRAME IS REQUIRED FOR ALL ROOF PENETRATIONS GREATER THAN OR EQUAL TO 12" SQUARE OR 12" DIAMETER

NOTE: ALL WELDING TO JOIST SHALL BE DONE WITH CARE SO AS NOT TO IMPAIR THE JOIST

TYPICAL ROOF OPENING - EXISTING FRAMING

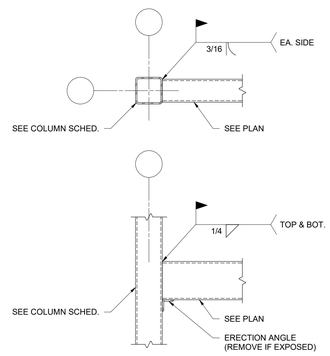
SECTION 4 — 3/4" = 1'-0"



OPENING FRAME IS TYPICAL FOR ALL DECK PENETRATIONS GREATER THAN OR EQUAL TO 12" SQUARE OR 12" DIAMETER. SUPPORT FRAME IS TYPICAL FOR ALL MECHANICAL UNITS WEIGHING 500# OR MORE.

TYPICAL MECHANICAL UNIT SUPPORT AND ROOF OPENING FRAMING

SECTION 5 — 3/4" = 1'-0"



CONNECTION MAY BE SHOP-WELDED IN LIEU OF FIELD-WELDED AT CONTRACTOR'S OPTION.

SECTION 6 — 3/4" = 1'-0"

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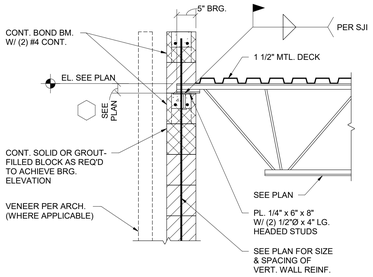
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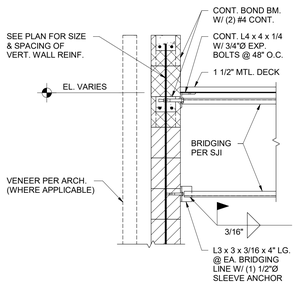
COLUMN SCHEDULE AND FRAMING DETAILS

S-401

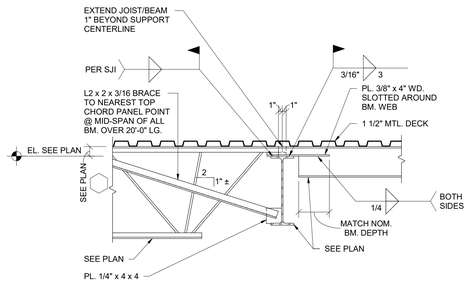
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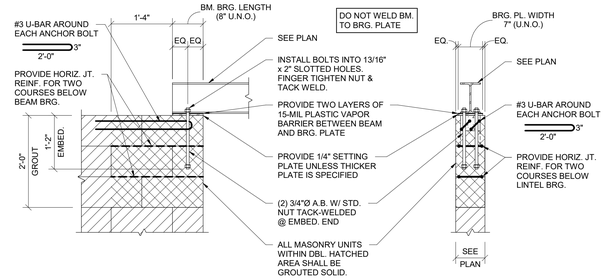
SECTION 1
3/4" = 1'-0"



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

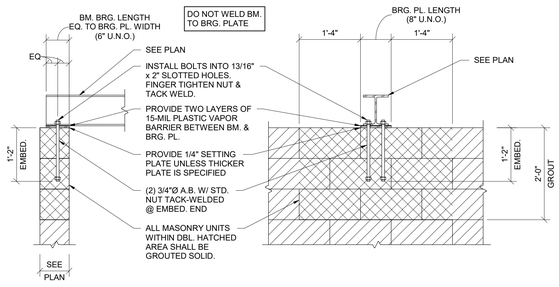


SECTION 3
3/4" = 1'-0"



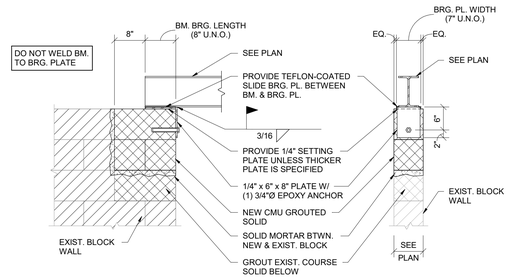
TYPICAL BEAM BEARING PARALLEL TO MASONRY WALL OR AT CORNER OF MASONRY WALL

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



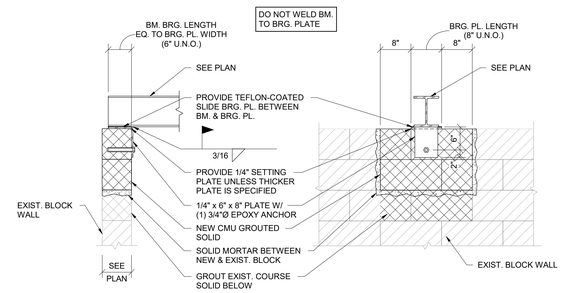
TYPICAL BEAM BEARING PERPENDICULAR TO MASONRY WALL

SECTION 5
3/4" = 1'-0"



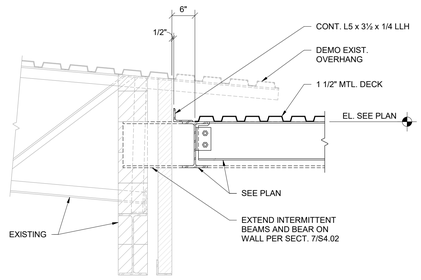
TYPICAL BEAM BEARING PARALLEL TO EXISTING MASONRY WALL OR AT CORNER OF EXISTING MASONRY WALL

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

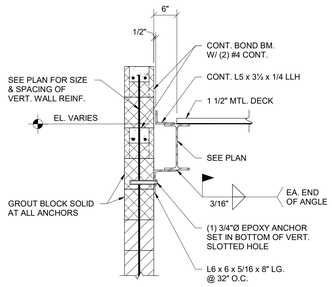


TYPICAL BEAM BEARING PERPENDICULAR TO EXISTING MASONRY WALL

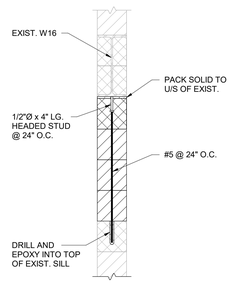
SECTION 7
3/4" = 1'-0"



SECTION 8
3/4" = 1'-0"



SECTION 9
3/4" = 1'-0"



SECTION 10
3/4" = 1'-0"

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ARCHITECT

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CONSTRUCTION DOCUMENTS

STATE OF OHIO
STANLEY N. FULLER
E-67148
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: JPK (R25)
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

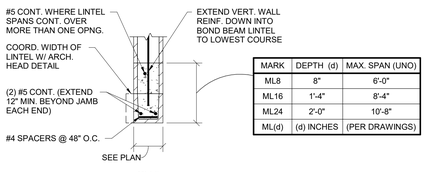
FRAMING DETAILS

S-402

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MASONRY BOND BEAM LINTELS



MARK	DEPTH (d)	MAX. SPAN (UNO)
ML8	8"	6'-0"
ML16	1'-4"	8'-4"
ML24	2'-0"	10'-8"
ML(d)	(d) INCHES	(PER DRAWINGS)

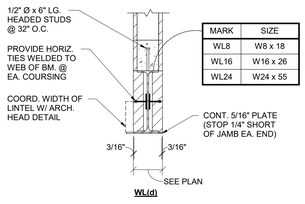
ML(d)

MASONRY BOND BEAM LINTEL NOTES

1. FILL IS 2500 PSI (MINIMUM) GROUT. USE FINE GROUT FOR WALLS 6 INCHES AND LESS.
2. FOR TYPE OF CMU AND TYPE OF BOND, SEE SPECIFICATION SECTION 042000.
3. PROVIDE 16" MINIMUM BEARING EACH END. LINTELS SHALL BEAR ON SOLID CMU OR ON 2 FILLED COURSES.
4. MAXIMUM SPANS DO NOT APPLY TO LOAD BEARING WALLS.
5. BOND PATTERN OF LINTEL TO MATCH THAT OF SURROUNDING WALL. PROVIDE SCORED BLOCK AS REQUIRED TO MATCH ADJACENT WALL FINISH. REFER TO INTERIOR FINISH SCHEDULE FOR LOCATIONS.
6. BOTTOM OF LINTEL SHALL BE SMOOTH MASONRY WITH NO CORES EXPOSED.
7. 14" LINTELS MAY BE MADE-UP OF TWO PIECES IF 14" BOND BEAM UNITS ARE NOT AVAILABLE.

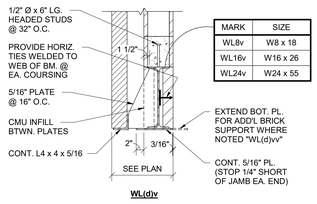
SECTION 1 — 3/4" = 1'-0"

STEEL BEAM LINTELS



MARK	SIZE
WL8	W8 x 18
WL16	W16 x 26
WL24	W24 x 55

WL(d)



MARK	SIZE
WL8v	W8 x 18
WL16v	W16 x 26
WL24v	W24 x 55

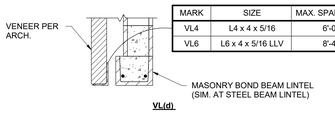
WL(dv

STEEL BEAM LINTEL NOTES

1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED.
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
4. PROVIDE 8" MINIMUM BEARING EACH END FOR 8" AND 16" DEEP SPAN LINTELS. USE 12" MINIMUM BEARING EACH END FOR 24" (AND DEEPER) SPAN LINTELS.
5. PROVIDE 1/4" SETTING PLATE AND 3/4"Ø ANCHOR BOLTS EACH END.
6. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 2 — 3/4" = 1'-0"

VENEER LINTELS



MARK	SIZE	MAX. SPAN (UNO)
VL4	L4 x 4 x 5/16	6'-0"
VL6	L6 x 4 x 5/16 LLV	8'-4"

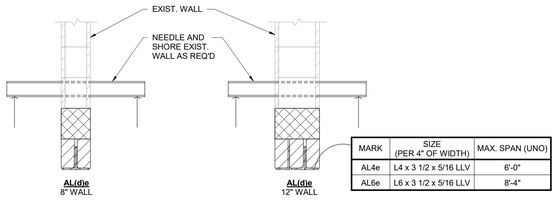
VL(d)

VENEER LINTEL NOTES

1. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
2. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
3. PROVIDE 6" MINIMUM BEARING EACH END.
4. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 3 — 3/4" = 1'-0"

ANGLE LINTELS IN EXISTING WALLS



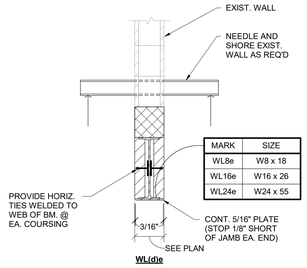
MARK	SIZE (PER 4" OF WIDTH)	MAX. SPAN (UNO)
AL4e	L4 x 3 1/2 x 5/16 LLV	6'-0"
AL6e	L6 x 3 1/2 x 5/16 LLV	8'-4"

DOUBLE-ANGLE LINTEL NOTES

1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. PROVIDE 6" MINIMUM BEARING EACH END.
4. MAXIMUM SPANS DO NOT APPLY TO LOADBEARING WALLS.
5. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 4 — 3/4" = 1'-0"

STEEL BEAM LINTELS IN EXISTING WALLS



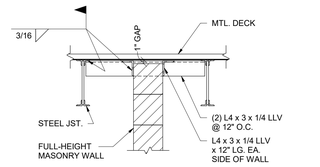
MARK	SIZE
WL8e	W8 x 18
WL16e	W16 x 26
WL24e	W24 x 55

WL(d)e

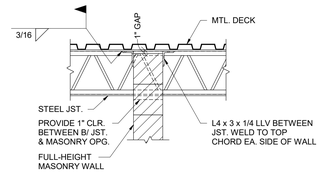
STEEL BEAM LINTEL NOTES

1. LINTELS SHALL BEAR ON SOLID MASONRY OR ON TWO CMU COURSES FULLY GROUTED.
2. FURNISH AND INSTALL ALL LOOSE LINTELS REQUIRED FOR ALL OPENINGS IN MASONRY, INCLUDING MECHANICAL AND ELECTRICAL WORK, WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT.
3. ALL LINTELS AT EXTERIOR LOCATIONS OR OTHERWISE SUBJECT TO WEATHER OR CORROSIVE ATMOSPHERE SHALL BE GALVANIZED.
4. PROVIDE 8" MINIMUM BEARING EACH END FOR 8" AND 16" DEEP SPAN LINTELS. USE 12" MINIMUM BEARING EACH END FOR 24" (AND DEEPER) SPAN LINTELS.
5. PROVIDE TWO LAYERS OF 15-MIL PLASTIC VAPOR BARRIER BELOW ALL LINTEL BEARINGS AND CAULK FACE JOINT.

SECTION 5 — 3/4" = 1'-0"

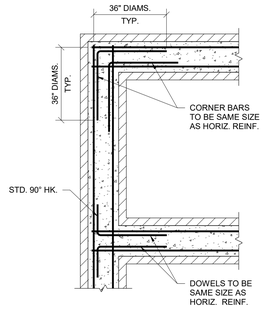


FULL HEIGHT-PARALLEL TO JOIST



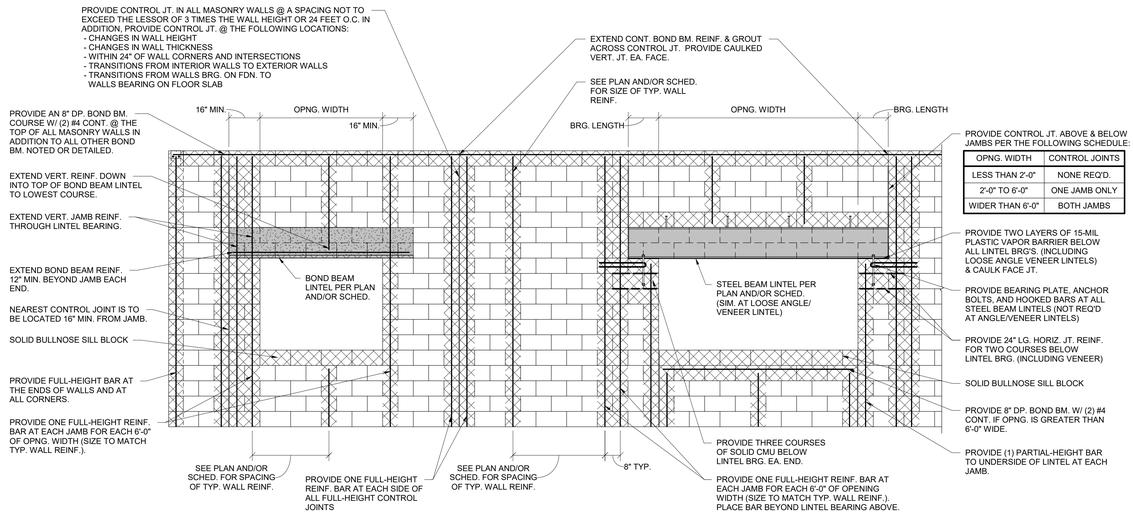
FULL HEIGHT-PERPENDICULAR TO JOIST

SECTION 6 — 3/4" = 1'-0"



TYPICAL CORNER BARS FOR MASONRY BOND BEAMS

SECTION 7 — 3/4" = 1'-0"



OPNG. WIDTH	CONTROL JOINTS
LESS THAN 2'-0"	NONE REQ'D.
2'-0" TO 6'-0"	ONE JAMB ONLY
WIDER THAN 6'-0"	BOTH JAMBS

TYPICAL REINFORCED MASONRY WALL CONSTRUCTION

ELEVATION A — 3/8" = 1'-0"

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CONSTRUCTION DOCUMENTS

STATE OF OHIO — STANLEY N. FULLER E-67146 — PROFESSIONAL ENGINEER

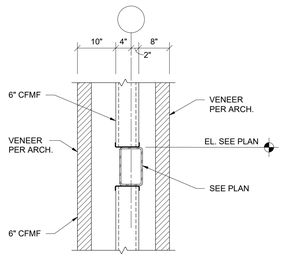
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PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

REV. NO.	DESCRIPTION	DATE

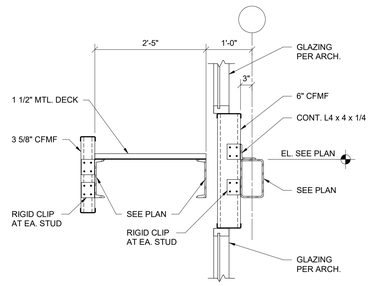
FRAMING DETAILS

S-403

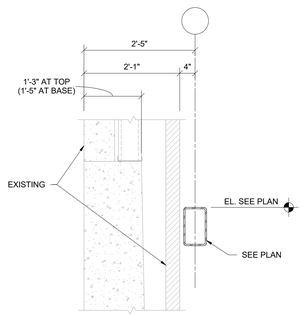
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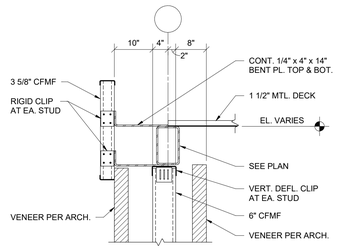
SECTION 1
3/4" = 1'-0"



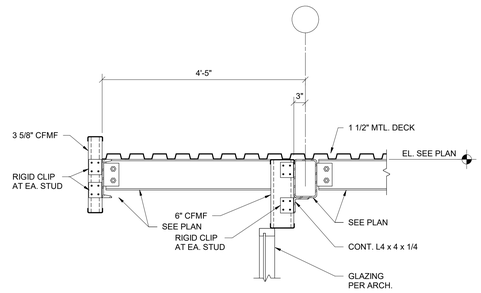
SECTION 2
3/4" = 1'-0"



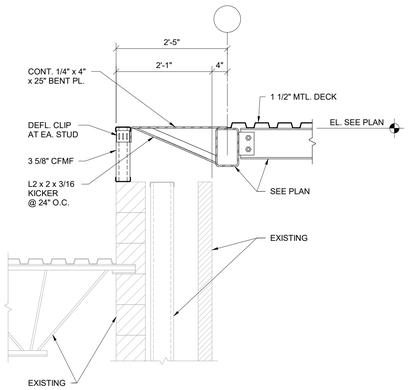
SECTION 3
3/4" = 1'-0"



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



SECTION 5
3/4" = 1'-0"



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

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CONSTRUCTION DOCUMENTS

STATE OF OHIO
STANLEY N. FULLER
E-67148
REGISTERED
PROFESSIONAL ENGINEER

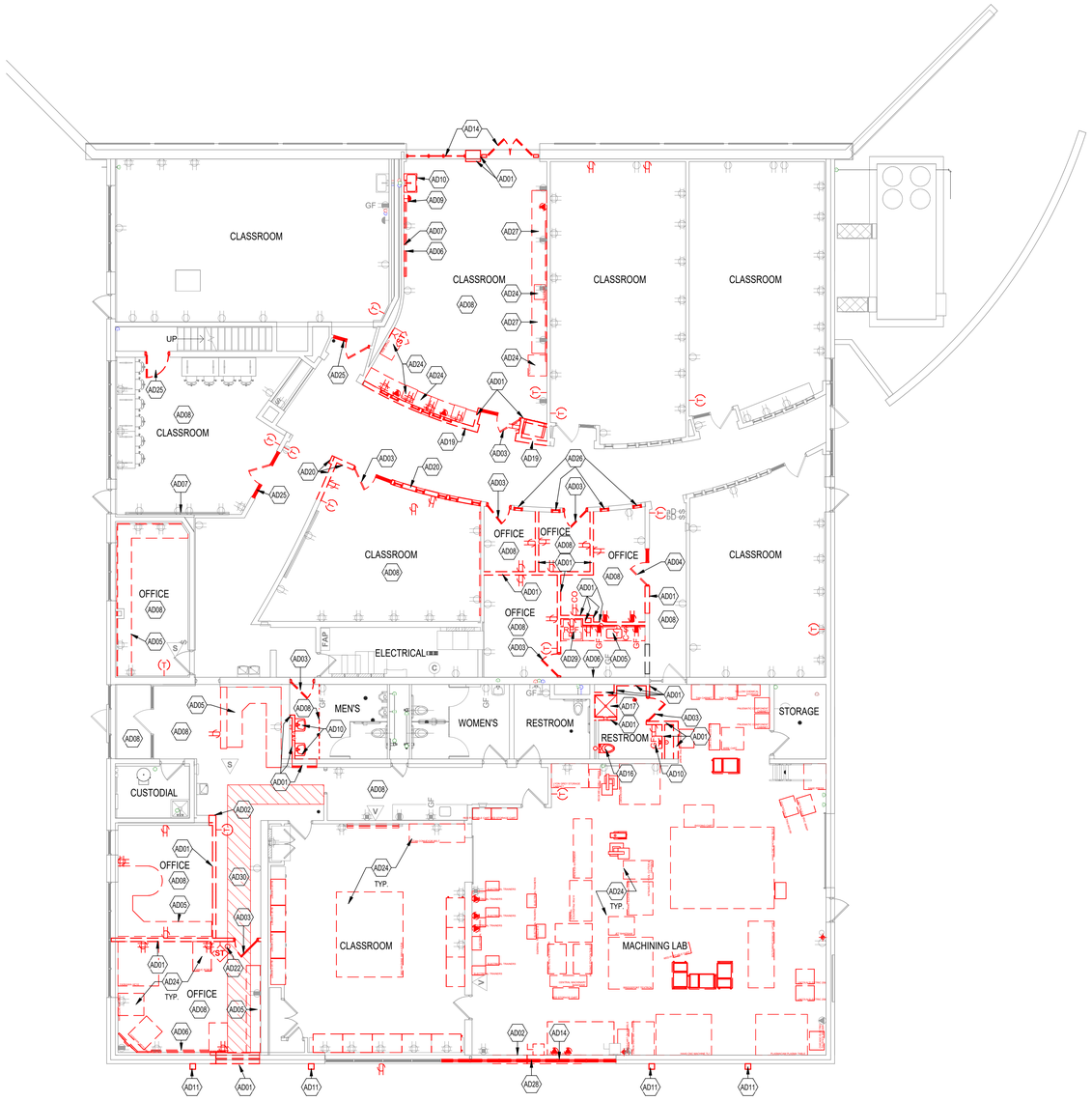
DRAWN BY: JPK (R25)
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.26

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FRAMING DETAILS

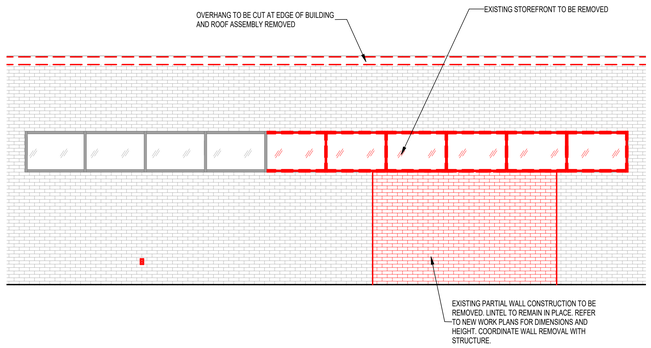
S-404

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1 FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



2 DEMO ELEVATION

SCALE: 1/4" = 1'-0"

NO.	NOTE
AD01	EXISTING WALL CONSTRUCTION TO BE REMOVED
AD02	EXISTING PARTIAL WALL CONSTRUCTION TO BE REMOVED. LINTEL TO REMAIN IN PLACE. REFER TO NEW WORK PLANS FOR DIMENSIONS AND HEIGHT. COORDINATE WALL REMOVAL WITH STRUCTURE.
AD03	EXISTING DOOR, FRAME AND HARDWARE TO BE REMOVED
AD04	EXISTING HOLLOW METAL FRAME AND GLASS TO BE REMOVED
AD05	EXISTING CASEWORK TO BE REMOVED
AD06	EXISTING MARKERBOARD/CHALKBOARD/TACKBOARD TO BE SALVAGED AND TURNED OVER TO THE OWNER
AD07	EXISTING PROJECTOR TO BE SALVAGED AND TURNED OVER TO THE OWNER
AD08	EXISTING FLOORING TO BE REMOVED
AD09	EXISTING EQUIPMENT TO BE REMOVED
AD10	EXISTING SINK AND FAUCET TO BE REMOVED
AD11	EXISTING DOWNSPOUTS TO BE REMOVED
AD14	EXISTING STOREFRONT TO BE REMOVED
AD16	EXISTING TOILET TO BE REMOVED
AD17	EXISTING SHOWER TO BE REMOVED
AD18	OVERHANG TO BE CUT AT EDGE OF BUILDING AND ROOF ASSEMBLY REMOVED
AD19	EXISTING WALL TO BE CUT AT 11'-0" AND THE SECTION BELOW TO BE REMOVED.
AD20	EXISTING WALL TO BE CUT AT 9'-0" AND THE SECTION BELOW TO BE REMOVED.
AD22	EXISTING FIRE EXTINGUISHER TO BE TURNED OVER TO OWNER
AD24	EQUIPMENT TO STAY ACCESSIBLE AND FUCTIONAL DURING CONSTRUCTION OF PRODUCTION LAB. RELOCATE EQUIPMENT TO DESIRED LOCATIONS WHEN PRODUCTION LAB ADDITION IS COMPLETE.
AD25	EXISTING DOOR & FRAME TO BE REMOVED. SALVAGE WOOD DOOR FOR REINSTALLATION.
AD26	EXISTING WINDOW TO BE REMOVED
AD27	SALVAGE CASEWORK FOR REINSTALLATION, REMOVE COUNTERTOP
AD28	REFER TO DETAIL 2/AD101
AD29	EXISTING REFRIGERATOR TO BE SALVAGED AND TURNED OVER TO THE OWNER
AD30	REMOVE EXISTING FLOOR SLAB, REFERENCE PLUMBING DRAWINGS

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A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

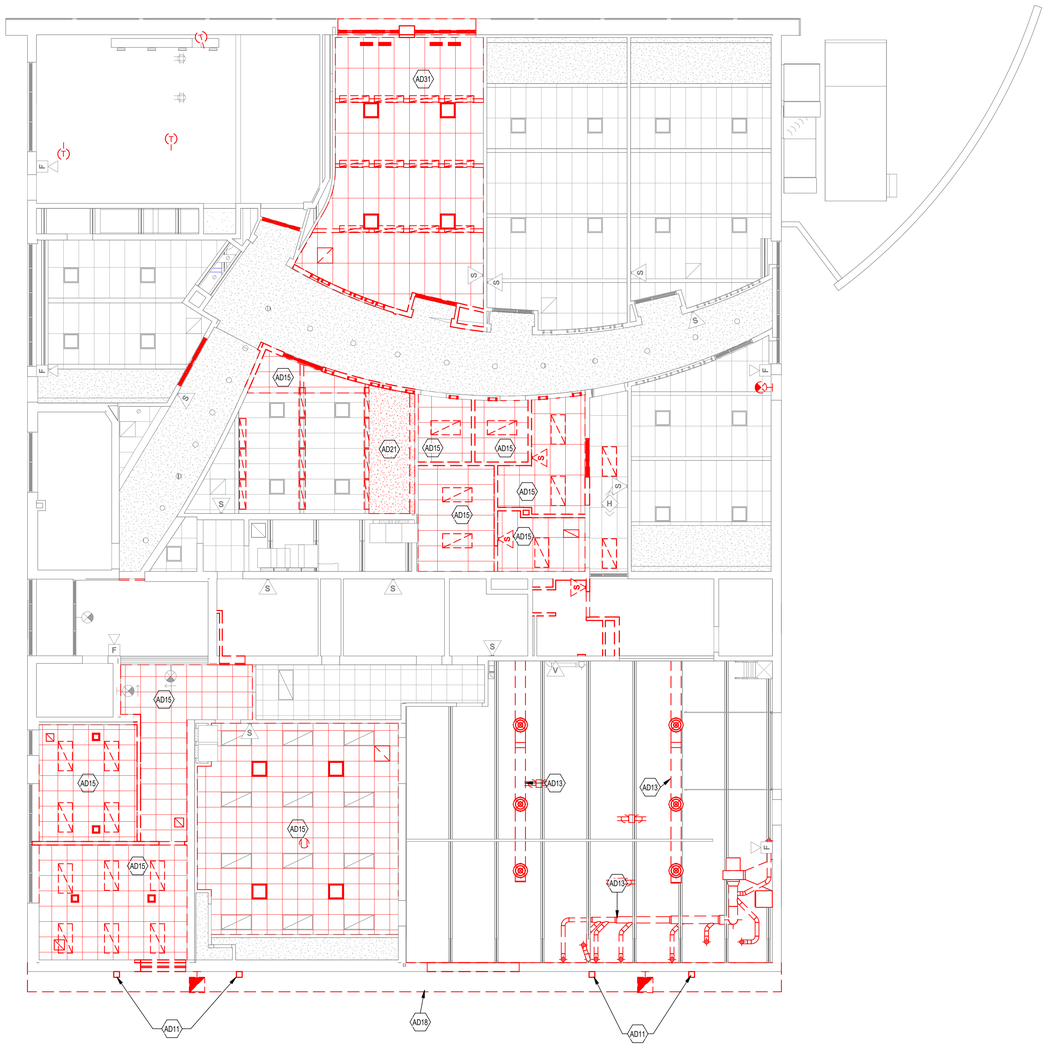
REV. NO.	DESCRIPTION	DATE

DEMOLITION PLANS

AD101

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NO.	NOTE
AD11	EXISTING DOWNSPOUTS TO BE REMOVED
AD13	EXISTING MECHANICAL EQUIPMENT TO BE REMOVED, SEE MECHANICAL DRAWINGS.
AD15	EXISTING CEILING TILES AND GRID TO BE REMOVED
AD18	OVERHANG TO BE CUT AT EDGE OF BUILDING AND ROOF ASSEMBLY REMOVED
AD21	EXISTING GYPSUM BOARD CEILING TO BE REMOVED
AD31	SALVAGE EXISTING CEILING TO PATCH IN CEILING AT ROOM 120



1 FIRST FLOOR DEMOLITION RCP

SCALE: 1/8" = 1'-0"

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KEY PLAN

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STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

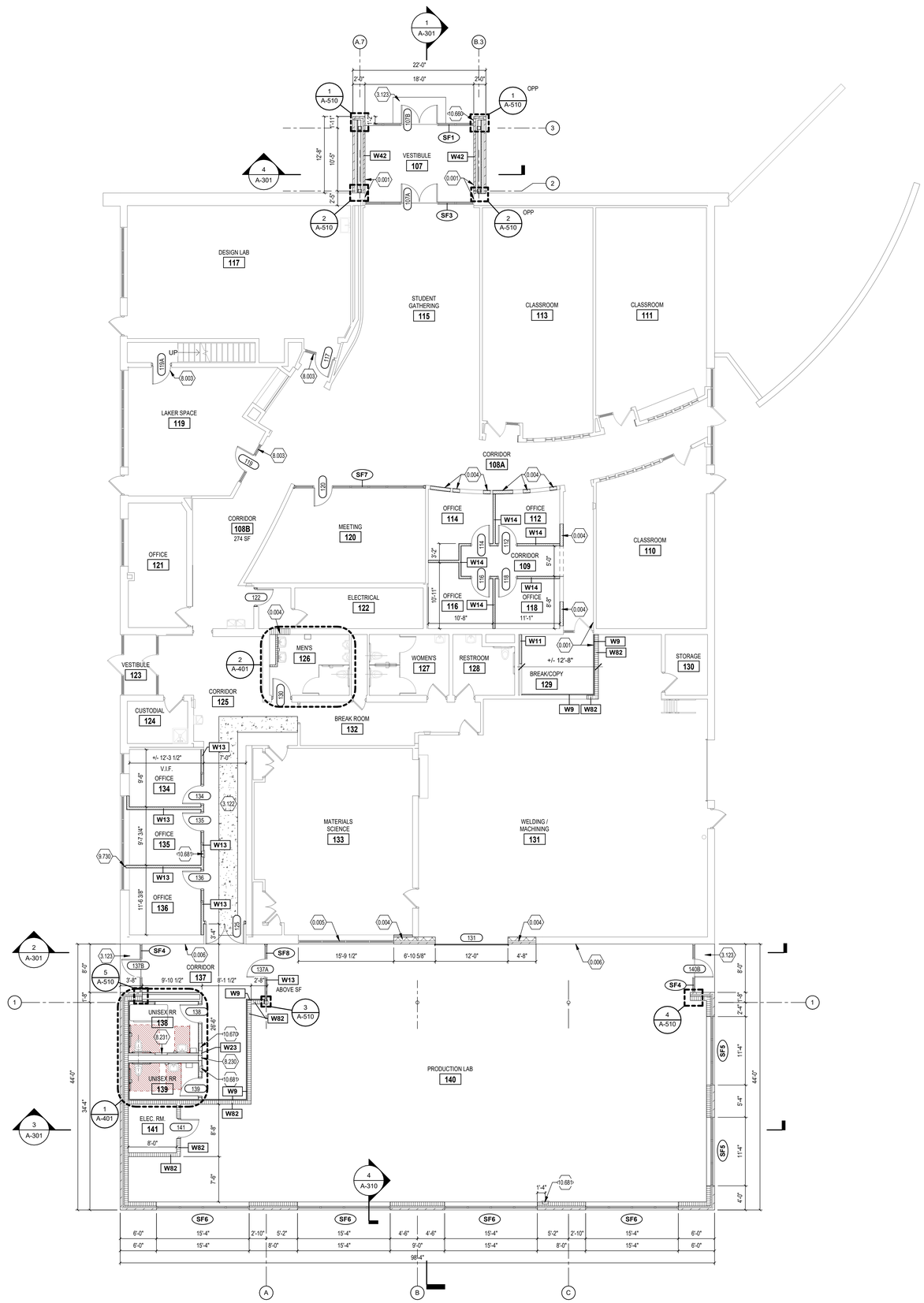
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PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

DEMOLITION REFLECTED CEILING PLAN

AD102

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1 FIRST FLOOR OVERALL PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - FIRST FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
107	107	VESTIBULE	230 SF
108A	COR100	CORRIDOR	744 SF
108B	COR101	CORRIDOR	274 SF
109	COR102	CORRIDOR	213 SF
110	110	CLASSROOM	496 SF
111	111	CLASSROOM	612 SF
112	114D	OFFICE	93 SF
113	113	CLASSROOM	677 SF
114	114C	OFFICE	104 SF
115	115	STUDENT GATHERING	751 SF
116	114B	OFFICE	102 SF
117	117	DESIGN LAB	843 SF
118	114A	OFFICE	88 SF
119	119	LAKER SPACE	439 SF
120	120	MEETING	405 SF
121	121	OFFICE	197 SF
122	122A	ELECTRICAL	184 SF
123	123	VESTIBULE	57 SF
124	125	CUSTODIAL	70 SF
125	COR104	CORRIDOR	510 SF
126	124M	MEN'S	126 SF
127	124W	WOMEN'S	133 SF
128	126	RESTROOM	92 SF
129	112	BREAK/COPY	120 SF
130	133A	STORAGE	70 SF
131	133	WELDING / MACHINING	1,930 SF
132	128	BREAK ROOM	190 SF
133	130	MATERIALS SCIENCE	812 SF
134	127	OFFICE	112 SF
135	129	OFFICE	109 SF
136	131	OFFICE	131 SF
137	COR105	CORRIDOR	292 SF
138	138	UNISEX RR	97 SF
139	139	UNISEX RR	69 SF
140	140	PRODUCTION LAB	3,417 SF
141	140A	ELEC. RM.	64 SF
			14,851 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'-0" MINIMUM BELOW GRADE.
D. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
E. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
F. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
G. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
H. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
I. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
J. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
K. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
L. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
M. REFER TO CODE PLANS FOR CODE INFORMATION.
N. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

—— W### INDICATES WALL TYPE. REFER TO DRAWING ____ FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

NO.	DESCRIPTION
0.001	ALIGN FINISH FACES
0.004	INFILL TO MATCH ADJACENT CONSTRUCTION
0.005	EXISTING, MODIFIED STOREFRONT, 4 SALVAGED WINDOW PANES
0.006	PAINT THE EXISTING/INFILLED BRICK WALL AT THE INTERIOR ONLY - REFER TO FINISH PLANS FOR COLOR
3.122	CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL - REFER TO STRUCTURAL DRAWINGS
3.123	CONCRETE FROST SLAB - REFER TO STRUCTURAL DRAWINGS
8.003	NEW DOOR FRAME, REINSTALL EXISTING WOOD DOOR, COORDINATE WITH ELECTRICAL AND TECHNOLOGY DRAWINGS. BASE BID.
8.230	ACCESS DOOR AND FRAME 10" x 24"
8.231	ACCESS DOOR AND FRAME 24" X 24"
9.730	SOUND BARRIER MULLION TRIM CAP
10.660	FIRE DEPARTMENT LOCK BOX
10.670	DEFIBRILLATOR CABINET (AED)
10.681	FIRE PROTECTION CABINET, SEMI-RECESSED

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

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128 W Market St, Celina, OH 45822

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO JENNIFER M. FULLER 1115297 REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: EAH

PROJECT NUMBER: FH224102.00/WSU-231035

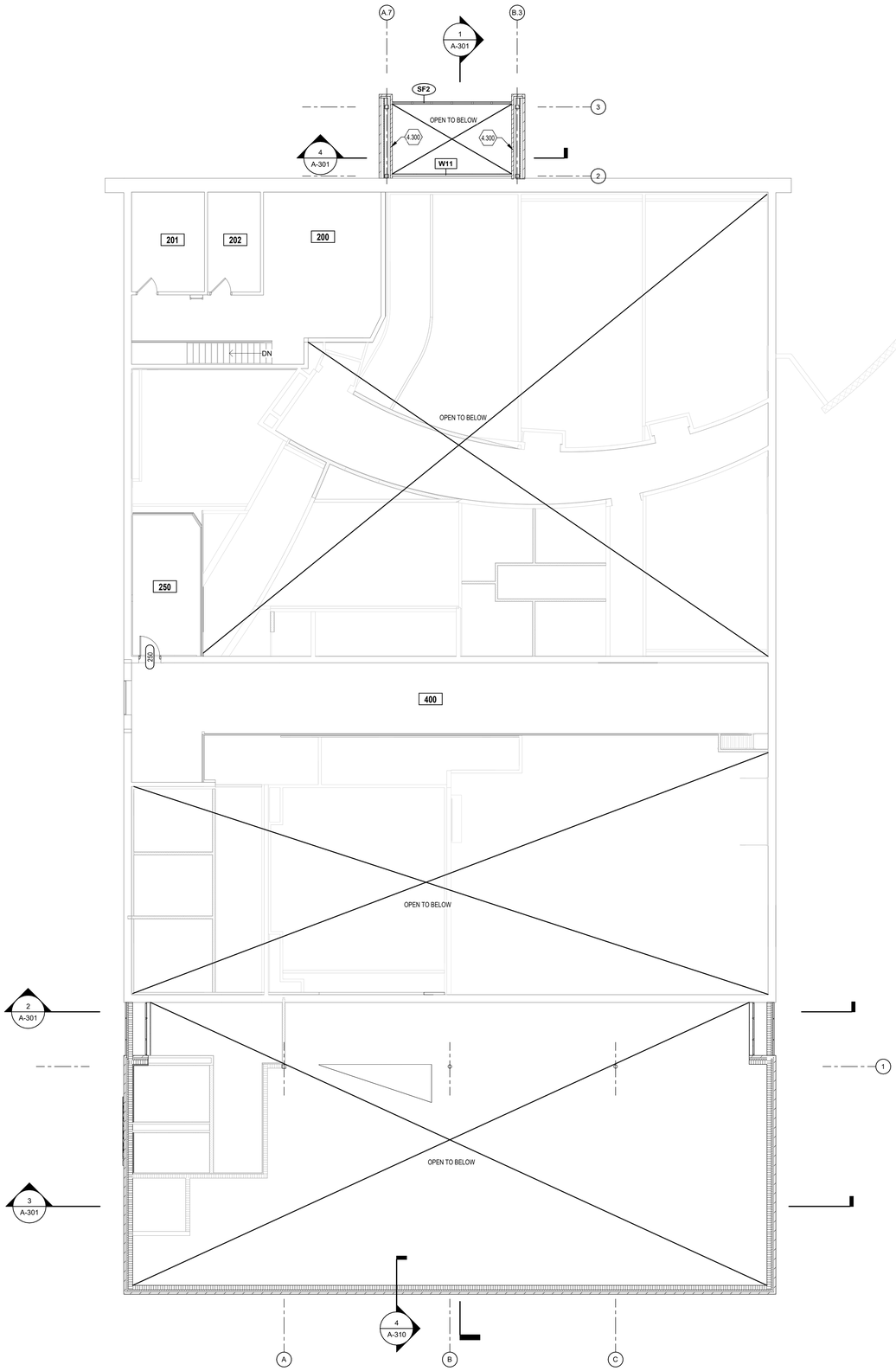
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

FIRST FLOOR PLAN

A-101

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1 MECHANICAL PLATFORM PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - SECOND FLOOR

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
201	201	BOILER	165 SF
202	202	IT CLOSET	120 SF
200	200	MECHANICAL PLATFORM	620 SF
250	250	TELECOM PLATFORM	223 SF
400	400	MECHANICAL PLATFORM	1,105 SF
			2,233 SF

ARCHITECTURAL PLAN GENERAL NOTES

A. ALL CMU WALLS THAT DO NOT LAY OUT IN FULL OR HALF LENGTHS SHOULD BE BALANCED SO AS NOT TO HAVE ANY PIECES LESS THAN 4" IN SIZE EXPOSED TO VIEW.
B. WHERE DISSIMILAR FLOOR MATERIALS MEET, THEY SHALL DO SO UNDER THE CENTERLINE OF THE DOOR, UNLESS NOTED OTHERWISE.
C. THERE SHALL BE PERIMETER INSULATION CONTINUOUS AROUND THE ENTIRE PERIMETER OF THE BUILDING EXTENDING 2'-0" MINIMUM BELOW GRADE.
D. THE BASE FLOOR ELEVATION INDICATED FOR THE PROJECT IS 100'-0". REFER TO SITE PLAN FOR CORRELATION TO USGS DATUM.
E. ALL INTERIOR MASONRY WALLS THAT RUN TO UNDERSIDE OF DECK ABOVE SHALL HAVE A 2" JOINT (U.N.O.) AT THE DECK TO BE FILLED WITH MINERAL WOOL AT THE NON-RATED WALLS, TO ALLOW FOR DEFLECTION.
F. FOR TYPICAL COMMON JOINT DETAILS AND CONSTRUCTION MOVEMENT JOINT DETAILS REFER TO DETAILS ON SHEET A-502.
G. ALL DIMENSIONS ON FLOOR PLANS ARE TO FINISH FACE OF CMU, CONCRETE, BRICK OR FINISH FACE OF GWB AT METAL STUD WALLS, UNLESS NOTED OTHERWISE.
H. HINGE SIDE DOOR JAMB AT WALLS WILL TYPICALLY BE LOCATED 4" MINIMUM FROM ADJACENT WALL UNLESS NOTED OTHERWISE.
I. ALL EXPOSED CONCRETE MASONRY UNITS (CMU) CORNERS ARE TO BE BULLNOSE, EXCEPT AT WINDOW JAMBS, BULKHEADS, WINDOW AND DOOR HEADS.
J. SEE REFLECTED CEILING PLANS FOR BULKHEAD LOCATIONS AND DETAIL REFERENCES.
K. REFER TO ROOM FINISH SCHEDULE OR PLAN AND EQUIPMENT PLANS FOR LOCATION AND EXTENT OF FINISH FLOOR MATERIALS.
L. PROVIDE WOOD BLOCKING AS REQUIRED. WITHIN METAL STUD WALLS FOR WALL MOUNTED ITEMS.
M. REFER TO CODE PLANS FOR CODE INFORMATION.
N. PROVIDE SPRAY FOAM INSULATION AND THERMAL BARRIER CONTINUOUS AT INTERSECTION OF EXTERIOR WALLS AND DECK.

ARCHITECTURAL PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

—— W### INDICATES WALL TYPE. REFER TO DRAWING _____ FOR WALL THICKNESS, HEIGHT AND COMPOSITION.

NO. NOTE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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ARCHITECT

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · JENNIFER M FULLER 1115297 · REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

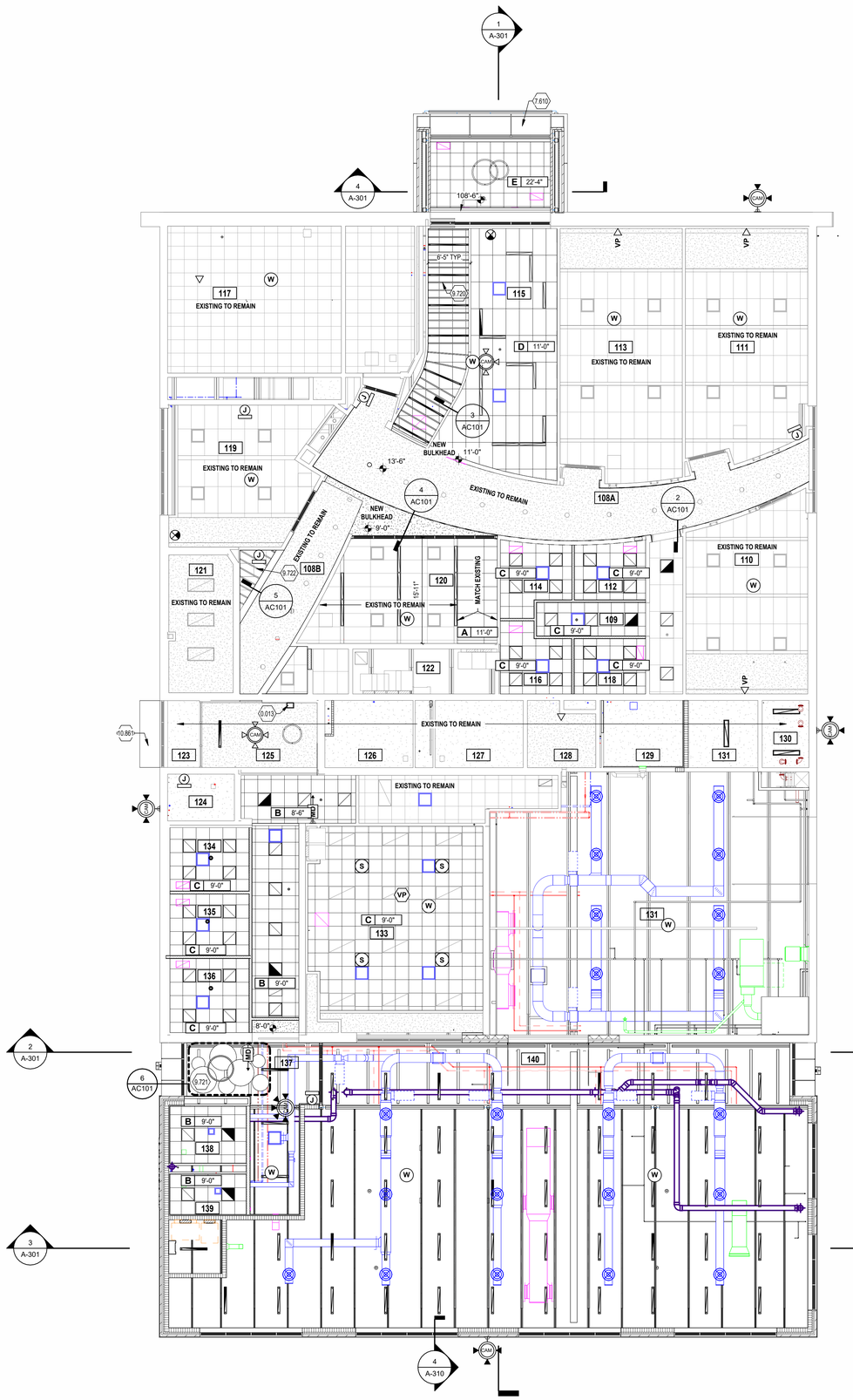
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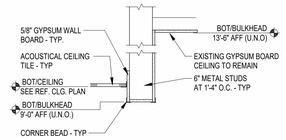
MECHANICAL PLATFORM PLAN

A-102

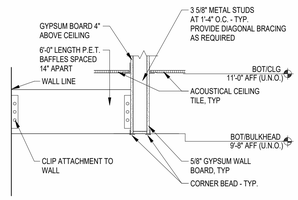
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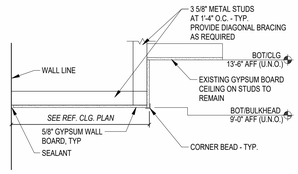
1 FIRST FLOOR CEILING PLAN
SCALE: 1/8" = 1'-0"



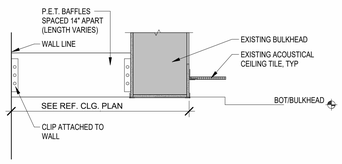
2 BULKHEAD DETAIL
SCALE: 3/4" = 1'-0"



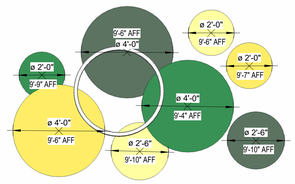
3 BULKHEAD DETAIL
SCALE: 3/4" = 1'-0"



4 BULKHEAD DETAIL
SCALE: 3/4" = 1'-0"



5 BULKHEAD DETAIL - ALTERNATE
SCALE: 3/4" = 1'-0"



6 ENLARGED CEILING CLOUD PLAN
SCALE: 3/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
107	107	VESTIBULE	230 SF
108A	COR100	CORRIDOR	744 SF
108B	COR101	CORRIDOR	274 SF
109	COR102	CORRIDOR	213 SF
110	110	CLASSROOM	496 SF
111	111	CLASSROOM	612 SF
112	114D	OFFICE	93 SF
113	113	CLASSROOM	677 SF
114	114C	OFFICE	104 SF
115	115	STUDENT GATHERING	751 SF
116	114B	OFFICE	102 SF
117	117	DESIGN LAB	843 SF
118	114A	OFFICE	88 SF
119	119	LAKER SPACE	439 SF
120	120	MEETING	405 SF
121	121	OFFICE	197 SF
122	122A	ELECTRICAL	184 SF
123	123	VESTIBULE	57 SF
124	125	CUSTODIAL	70 SF
125	COR104	CORRIDOR	510 SF
126	124M	MEN'S	126 SF
127	124W	WOMEN'S	133 SF
128	126	RESTROOM	92 SF
129	112	BREAK/COPY	120 SF
130	133A	STORAGE	70 SF
131	133	WELDING / MACHINING	1,930 SF
132	128	BREAK ROOM	190 SF
133	130	MATERIALS SCIENCE	812 SF
134	127	OFFICE	112 SF
135	129	OFFICE	109 SF
136	131	OFFICE	131 SF
137	COR105	CORRIDOR	292 SF
138	138	UNISEX RR	97 SF
139	139	UNISEX RR	69 SF
140	140	PRODUCTION LAB	3,417 SF
141	140A	ELEC. RM.	64 SF

REFLECTED CEILING PLAN NOTES

A. PROVIDE REVEAL DRYWALL TRIM AT ALL LOCATIONS WHERE GYPSUM WALL BOARD (GWB) ABUTS A DISSIMILAR MATERIAL. TYPICAL UNLESS NOTED OTHERWISE.
B. BULKHEAD FRAMING SHALL BE ATTACHED TO STRUCTURAL SUPPORTS AND NOT TO THE ROOF DECK

REFLECTED CEILING NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
0.013	AT THE LOCATION OF A REMOVED DIFFFUSER, INFILL CONCRETE DECK AND PAINT TO MATCH ADJACENT CONSTRUCTION
7.610	METAL COMPOSITE MATERIAL WALL PANELS - B.O.D. ALUCOBOND, COLOR: DUSTY CHARCOAL II
9.720	ACOUSTIC CEILING BAFFLES, SPACED 14" CENTER TO CENTER- REFER TO FINISH SCHEDULE
9.721	ACOUSTIC CEILING CLOUDS - REFER TO FINISH SCHEDULE
9.722	ALTERNATE - ACOUSTIC CEILING BAFFLES, SPACED 14" CENTER TO CENTER - REFER TO FINISH SCHEDULE
10.861	PRE-ENGINEERED CANOPY - ALTERNATE

REFLECTED CEILING PLAN LEGEND

- 10'-4" — INDICATES ELEVATION HEIGHT
- XX-XX" — INDICATES CEILING HEIGHT
- X1 XX-XX" — INDICATES ACOUSTIC PANEL CEILING TYPE AND HEIGHT. REFER TO PROJECT MANUAL FOR "TYPE"
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- LIGHT FIXTURE - REFER TO ELECTRICAL DRAWINGS
- CLOCK - REFER TO TECHNOLOGY DRAWINGS
- MECHANICAL DIFFUSER - REFER TO MECHANICAL DRAWINGS
- MECHANICAL RETURN AIR GRILLE - REFER TO MECHANICAL DRAWINGS
- CEILING MOUNTED MECHANICAL UNIT - REFER TO MECHANICAL DRAWINGS
- MECHANICAL UNIT HEATER - REFER TO MECHANICAL DRAWINGS
- IC — RECESSED CEILING SPEAKER
- M — MOTION DETECTOR
- CEILING MOUNTED EXIT LIGHT
- CAM — CEILING MOUNTED CAMERA
- W — WIRELESS ACCESS POINT (WAP)
- CJ — CONTROL JOINT IN GYPSUM BOARD CEILING OR BULKHEAD
- S — SOUND REINFORCEMENT SPEAKER
- H — FIRE ALARM HEAT DETECTOR
- F — FIRE ALARM HORN STROBE
- S — FIRE ALARM SPEAKER STROBE
- V — FIRE ALARM STROBE
- P — FIRE ALARM SMOKE DETECTOR
- OCCUPANCY SENSOR
- ACOUSTICAL CEILING TILE (ACT)
- ACOUSTICAL CEILING TILE (ACT)
- GYPSUM WALL BOARD BULKHEAD / CEILING EXTERIOR FINISH SYSTEM (E.F.S.) EXTERIOR INSULATION FINISH SYSTEM (E.I.F.S.)
- INTERIOR FINISH SYSTEM (I.F.S.)
- METAL SOFFIT PANELS

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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WRIGHT STATE UNIVERSITY

ARCHITECT

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128 W Market St, Celina, OH 45822

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO — JENNIFER M FULLER — 1115297 — REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

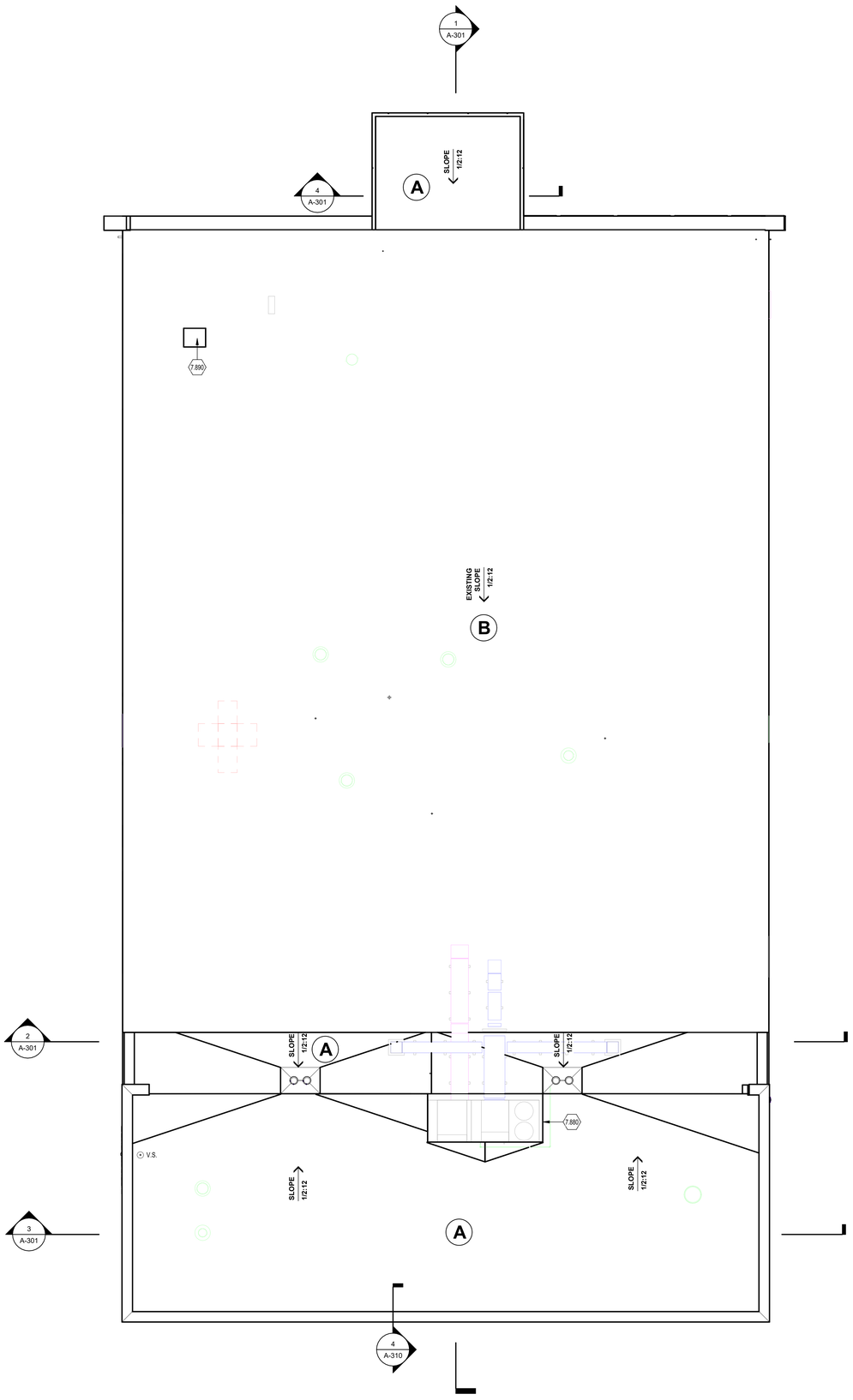
DRAWN BY: EAH
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

FIRST FLOOR REFLECTED CEILING PLAN

AC101

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2 FIRST FLOOR

SCALE: 1/8" = 1'-0"

ROOF PLAN GENERAL NOTES

A. ALL DETAILS SHOWN ARE FOR GENERAL INFORMATION. ALL FINAL FLASHING CONDITIONS SHALL BE THE RESPONSIBILITY OF THE ROOF INSTALLER, AND SHALL MEET APPROVAL OF ROOF MANUFACTURER.

B. ALL DETAIL MODIFICATIONS MUST HAVE SHOP DRAWINGS APPROVAL. CONTRACTOR SHALL INSPECT AND VERIFY ALL EXISTING FIELD CONDITIONS, CLEARANCES, AND DIMENSIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF EXISTING CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT ARCHITECT BEFORE PROCEEDING WITH ANY FURTHER WORK.

C. OPENINGS IN ROOF WILL BE CUT BY ROOF CONTRACTOR. MECHANICAL CONTRACTOR TO COORDINATE LOCATION OF OPENING IN ROOF WITH ROOF CONTRACTOR. CURB TO BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY ROOF CONTRACTOR.

D. PROVIDE FLASHING AND SADDLES FOR ALL EQUIPMENT PROVIDED UNDER MECHANICAL.

E. SADDLES AND TAPERED INSULATION SYMBOLS INDICATE DESIGN INTENT TO SLOPE TO DRAIN. CONTRACTOR SHALL PROVIDE SUBMITTAL DRAWINGS FOR TAPERED INSULATION AND SADDLES TO INSURE POSITIVE SLOPE.

F. THE ROOF CONTRACTOR SHALL PROTECT ALL ROOF DRAINS, SCUPPERS, AND DOWNSPOUTS FROM DEBRIS CREATED DURING DEMOLITION AND CONSTRUCTION. THE ROOF CONTRACTOR SHALL INSPECT AND CLEAR ALL DRAINS, SCUPPERS, AND DOWNSPOUTS PRIOR TO COMPLETION OF WORK AND TO ENSURE THAT THEY ARE FREE OF DEBRIS AND ARE FUNCTIONING PROPERLY.

G. MECHANICAL, ELECTRICAL AND PLUMBING INFORMATION SHOWN ON THIS PLAN IS GENERAL IN NATURE. REFER TO P, M AND E DRAWINGS FOR FURTHER INFORMATION AND COORDINATE ALL REQUIRED ROOF OPENINGS OR ROOF MOUNTED EQUIPMENT.

ROOF PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
7.880	ROOF CURB, REFER TO DETAIL 9/A-531
7.890	EXISTING ROOF ACCESS HATCH TO REMAIN

ROOF TYPE LEGEND

A	FULLY ADHERED ROOFING MEMBRANE, OVER COVER BOARD, OVER TWO LAYERS OF ROOF INSULATION (5.2 INCH TOTAL), OVER VAPOR RETARDER, OVER 1 1/2 INCH GALVANIZED METAL ROOF DECK, OF 1/2:12 SLOPE ROOF STRUCTURE. REFER TO STRUCTURAL DRAWINGS.
B	EXISTING TO REMAIN - DURO-LAST PVC ROOF MEMBRANE OVER BUILT-UP RIGID INSULATION OVER 1 1/2" ACOUSTICAL METAL DECK

ROOF PLAN LEGEND

- 6'-0" O (UNO) / 4'-0" (UNO): INDICATES ROOF DRAIN (RD) AND OVERFLOW DRAIN (OD). (FLASH IN ACCORDANCE WITH ROOF MEMBRANE MANUFACTURER'S RECOMMENDATION.) REFER TO DETAIL 6/A-530
- VS: INDICATES VENT STACK - REFER TO PLUMBING DRAWINGS AND 12/A-530
- FL: INDICATES FLUE - REFER TO MECHANICAL DRAWINGS
- INDICATES MECHANICAL EQUIPMENT - REFER TO MECHANICAL DRAWINGS
- INDICATES ROOF SLOPE
- INDICATES ROOF SADDLE - REFER TO PROJECT MANUAL.
- INDICATES EXPANSION JOINT - REFER TO ROOF PLAN AND WALL SECTIONS.
- INDICATES WALL LINE BELOW - REFER TO ARCHITECTURAL FLOOR PLANS
- DS: INDICATES METAL DOWNSPOUT. REFER TO ROOF PLAN AND BUILDING ELEVATIONS FOR LOCATIONS
- INDICATES WALKWAY PADS -REFER TO PROJECT MANUAL
- INDICATES ICE AND WATER SHIELD MEMBRANE FLASHING -REFER TO PROJECT MANUAL

VERIFICATION NOTE

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

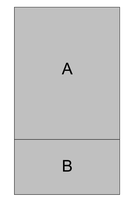
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ARCHITECT

FANNING HOWEY

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128 W Market St, Celina, OH 45822



KEY PLAN

CONSTRUCTION DOCUMENTS



JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

PROJECT NUMBER: FH224102.00/WSU-231035

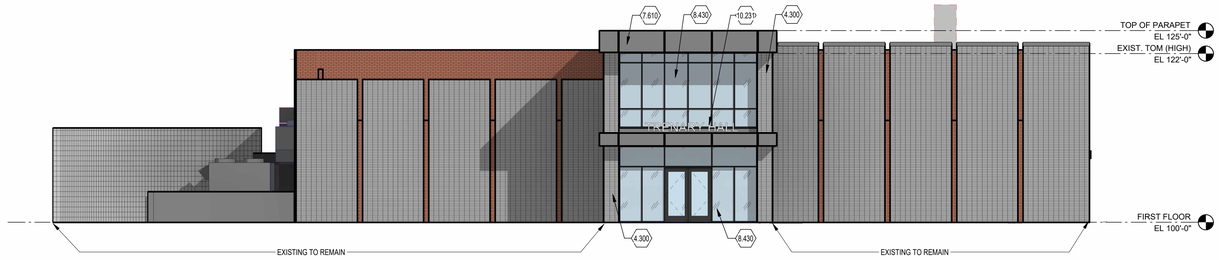
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REV. NO.	DESCRIPTION	DATE

ROOF PLAN

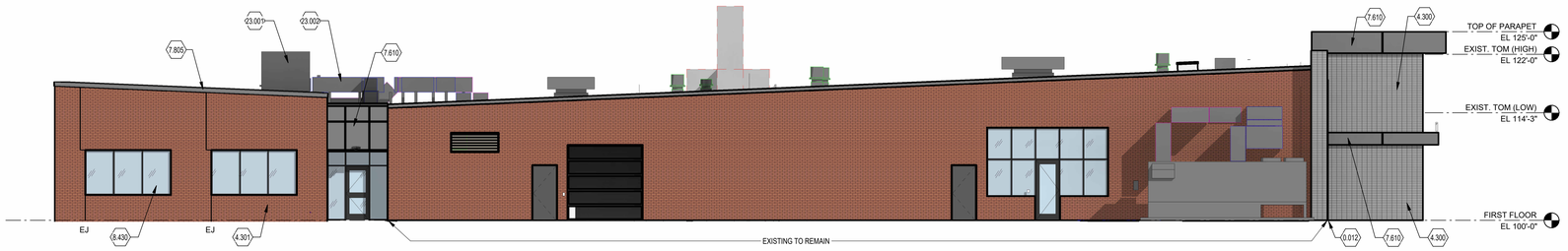
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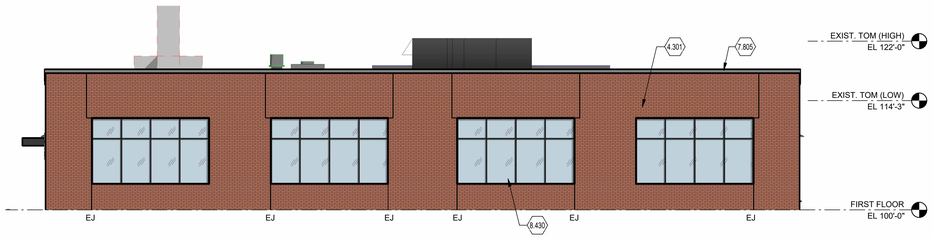
1 NORTH ELEVATION

SCALE: 1/8" = 1'-0"



2 EAST BUILDING ELEVATION

SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION

SCALE: 1/8" = 1'-0"



4 WEST ELEVATION

SCALE: 1/8" = 1'-0"

ELEVATIONS GENERAL NOTES

A. REFER TO THE ELECTRICAL AND TECHNOLOGY DRAWINGS FOR CAMERA, LOCATIONS, SECURITY DEVICES, RECEPTACLES, LIGHT FIXTURES, ETC. COORDINATE LOCATIONS WITH VENEER COURSING TO PROVIDE CONSISTENT MOUNTING HEIGHTS.

B. REFER TO PLUMBING DRAWINGS FOR EXTERIOR WALL HYDRANTS, SECONDARY ROOF DRAIN OUTLETS, ETC. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

C. REFER TO MECHANICAL DRAWINGS FOR EXTERIOR LOUVER LOCATIONS LOCATED IN EXTERIOR WALL AND EXTERIOR SOFFITS. COORDINATE PENETRATIONS THROUGH EXTERIOR ENVELOPE WITH OTHER TRADES. PROVIDE TRANSITION MEMBRANE TO MAINTAIN AIR BARRIER SYSTEM.

BUILDING ELEVATION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
0.012	EXPANSION JOINT AT INSIDE CORNER
4.300	BRICK 1 - MODULAR - BELDON EBONY BLACK BRICK
4.301	BRICK 2 - MODULAR - BOWERSTON OLDE CHEYENNE
7.610	METAL COMPOSITE MATERIAL WALL PANELS - B.O.D. ALUCOBOND, COLOR: DUSTY CHARCOAL II
7.805	METAL COPING
8.430	STOREFRONT FRAMING
10.230	1'-0" DIMENSIONAL LETTER SIGNAGE, COLOR: WHITE
10.231	1'-2" DIMENSIONAL LETTER SIGNAGE, COLOR: WHITE
10.861	PRE-ENGINEERED CANOPY - ALTERNATE
23.001	MECHANICAL EQUIPMENT - REFER TO MECH. DRAWINGS.
23.002	MECHANICAL DUCTWORK - REFER TO MECH. DRAWINGS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

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128 W Market St, Celina, OH 45822

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B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

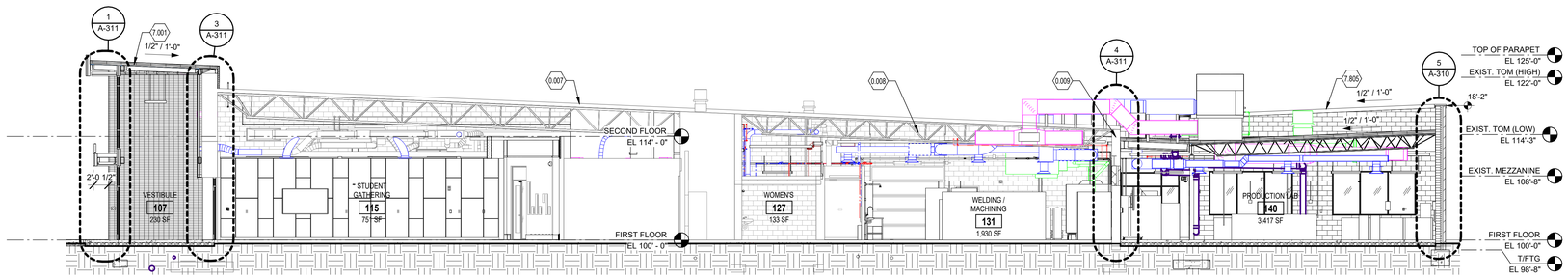
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

BUILDING ELEVATIONS

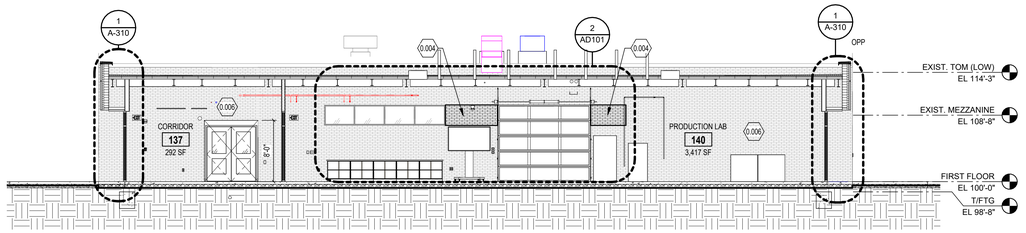
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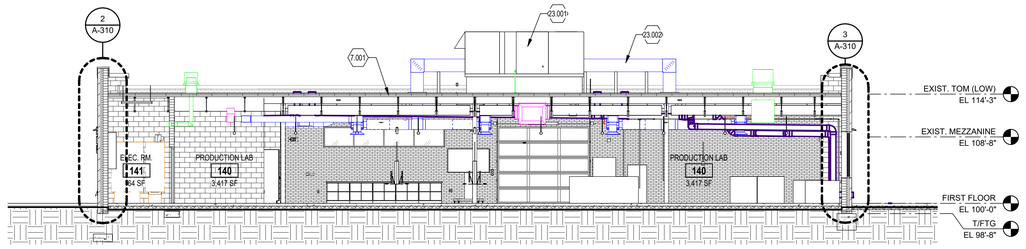
1 BUILDING SECTION

SCALE: 1/8" = 1'-0"



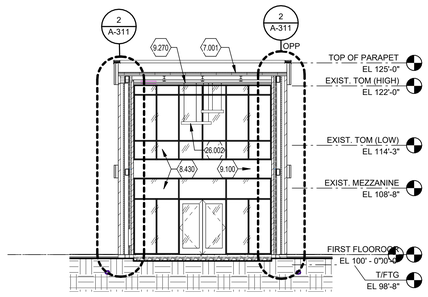
2 BUILDING SECTION

SCALE: 1/8" = 1'-0"



3 BUILDING SECTION

SCALE: 1/8" = 1'-0"



4 BUILDING SECTION

SCALE: 1/8" = 1'-0"

BUILDING SECTION NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
0.004	INFILL TO MATCH ADJACENT CONSTRUCTION
0.006	PAINT THE EXISTING/INFILLED BRICK WALL AT THE INTERIOR ONLY - REFER TO FINISH PLANS FOR COLOR
0.007	EXISTING ROOF
0.008	EXISTING WEB JOISTS
0.009	EXISTING WALL CONSTRUCTION
7.001	ROOFING SYSTEM - REFER TO ROOF PLAN
7.805	METAL COPING
8.430	STOREFRONT FRAMING
9.100	5/8" GYPSUM WALLBOARD (GWB)
9.270	ACOUSTICAL PANEL CEILING - REFER TO CEILING PLANS
23.001	MECHANICAL EQUIPMENT - REFER TO MECH. DRAWINGS.
23.002	MECHANICAL DUCTWORK - REFER TO MECH. DRAWINGS.
26.002	ELECTRICAL LIGHT FIXTURE - REFER TO ELEC. DRAWINGS.

VERIFICATION NOTE

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · JENNIFER M FULLER · 1115297 · REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

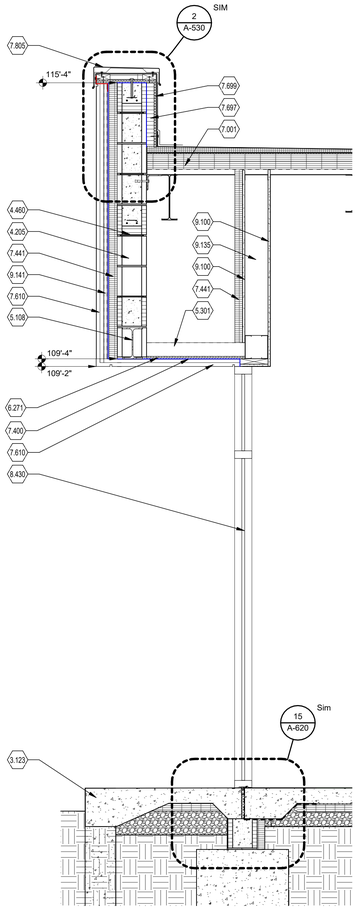
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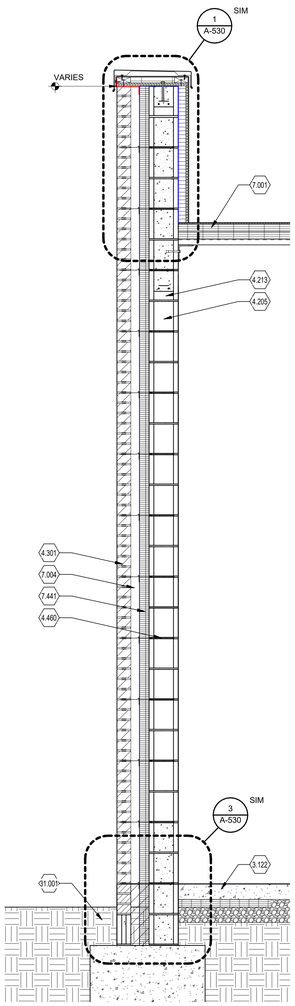
BUILDING SECTIONS

A-301

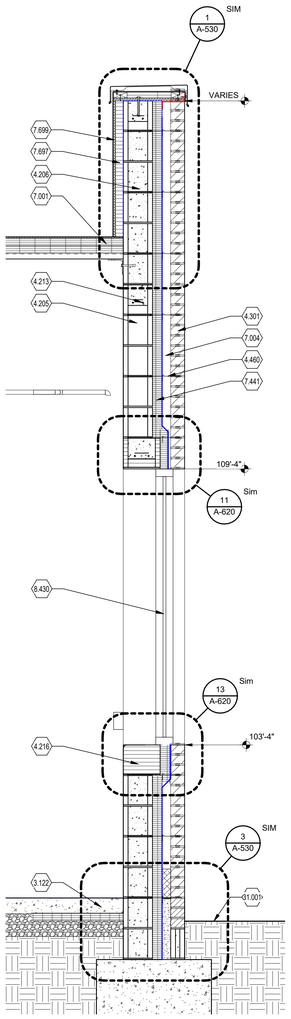
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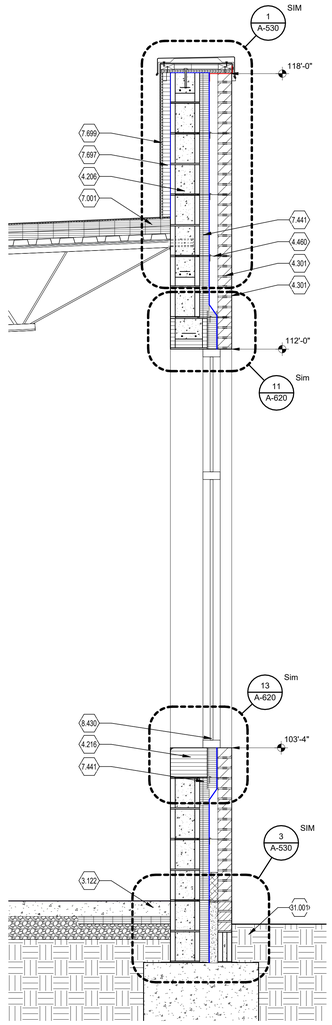
1 WALL SECTION
SCALE: 3/4" = 1'-0"



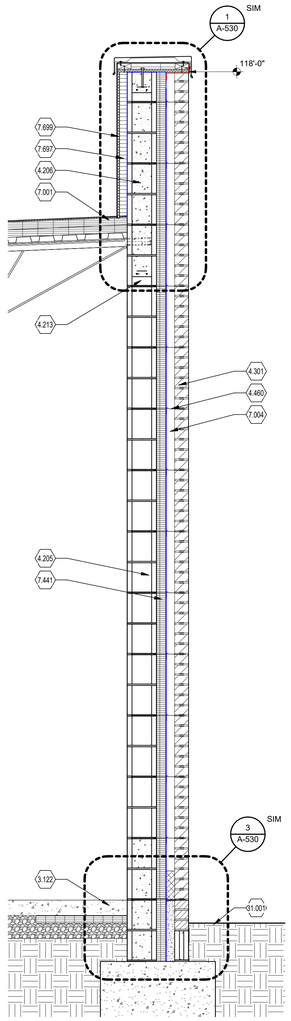
2 WALL SECTION
SCALE: 3/4" = 1'-0"



3 WALL SECTION
SCALE: 3/4" = 1'-0"



4 WALL SECTION
SCALE: 3/4" = 1'-0"



5 WALL SECTION
SCALE: 3/4" = 1'-0"

GENERAL NOTES

A. COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
B. REFER TO THE STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND FOOTING CONDITIONS.
C. PROVIDE HORIZ. JOINT REFINFORCING, TIES, AND OTHER ANCHORAGE/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
D. ROOF TO EXTERIOR WALL JUNCTIONS: REFER TO DIVISION 07 SECTION "THERMAL INSULATION" FOR SPRAY POLYURETHANE INULATION REQUIRED AT THESE LOCATIONS.
E. WALL INSULATION PENETRATIONS: PROVIDE SPRAY POLYURETHANE INSULATION OR SEALANT AROUND ALL PENETRATIONS OF THE WALL INSULATION BY PIPING, CONDUITS, FRAMING, STRUCTURE, ETC.

WALL SECTION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
3.122	CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL - REFER TO STRUCTURAL DRAWINGS
3.123	CONCRETE FROST SLAB - REFER TO STRUCTURAL DRAWINGS
4.205	8" CMU
4.206	8" CMU -GROUT SOLID
4.213	CMU BOND BEAM
4.216	CONCRETE MASONRY UNIT - BULLNOSE (BN1)
4.301	BRICK 2 - MODULAR - BOWERSTON OLDE CHEYENNE
4.460	HORIZONTAL JOINT REINFORCEMENT AT 16" O.C. VERTICALLY
5.108	STEEL LINTEL - REFER TO STRUCTURAL DRAWINGS
5.301	3 5/8" COLD-FORMED METAL FRAMING
6.271	5/8" PLYWOOD WALL SHEATHING
7.001	ROOFING SYSTEM - REFER TO ROOF PLAN
7.004	AIR SPACE
7.400	WEATHER BARRIER
7.441	2 1/8" BOARDSTOCK AIR BARRIER
7.610	METAL COMPOSITE MATERIAL WALL PANELS - B.O.D. ALUCOBOND, COLOR: DUSTY CHARCOAL II
7.697	POLYISOCYANURATE BOARD ROOF INSULATION
7.699	COVER BOARD
7.805	METAL COPING
8.430	STOREFRONT FRAMING
9.100	5/8" GYPSUM WALLBOARD (GWB)
9.135	6" METAL STUDS AT 1'-4" O.C. (20 GA)
9.141	7/8" METAL FURRING (HAT) CHANNELS AT 1'-4" O.C.
31.001	APPROXIMATE FINISH GRADE

VERIFICATION NOTE

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1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

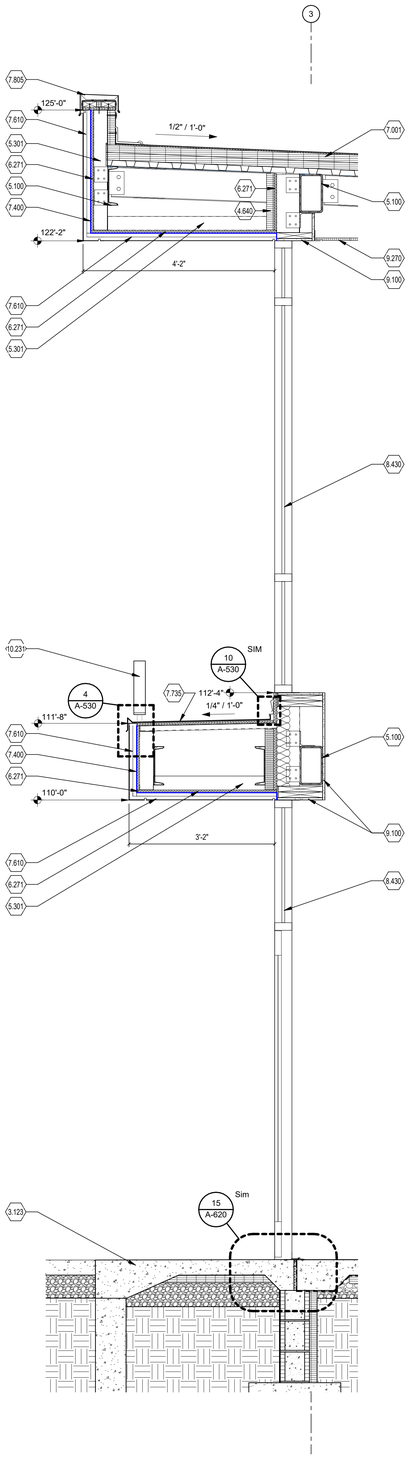
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PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

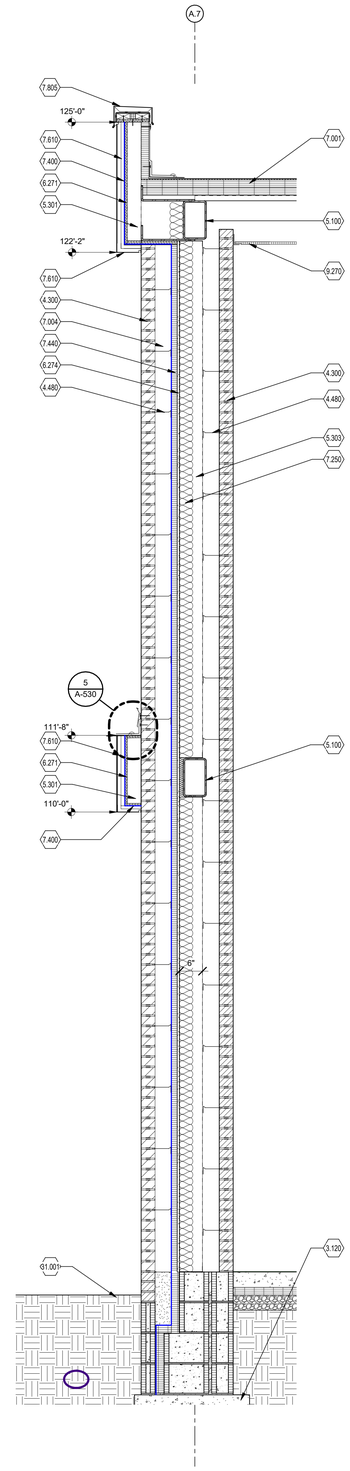
WALL SECTIONS

A-310

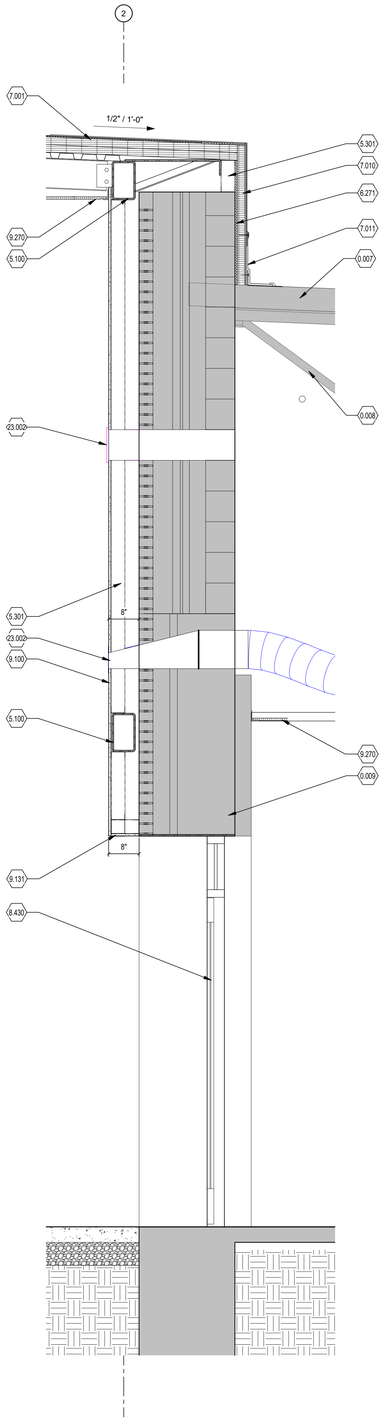
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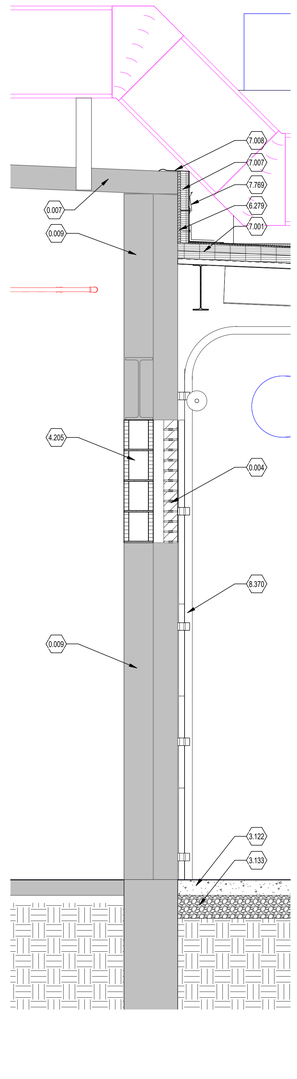
1 **WALL SECTION**
SCALE: 3/4" = 1'-0"



2 **WALL SECTION**
SCALE: 3/4" = 1'-0"



3 **WALL SECTION**
SCALE: 3/4" = 1'-0"



4 **WALL SECTION**
SCALE: 3/4" = 1'-0"

GENERAL NOTES

A. COORDINATE ALL LINTEL AND BOND BEAM REQUIREMENTS WITH STRUCTURAL DRAWINGS AND PROJECT MANUAL.
B. REFER TO THE STRUCTURAL DRAWINGS FOR ALL FOUNDATION AND FOOTING CONDITIONS.
C. PROVIDE HORIZ. JOINT REFINFORCING, TIES, AND OTHER ANCHORAGE/REINFORCEMENT ITEMS AS REQ'D. PER PROJECT MANUAL.
D. ROOF TO EXTERIOR WALL JUNCTIONS: REFER TO DIVISION 07 SECTION "THERMAL INSULATION" FOR SPRAY POLYURETHANE INULATION REQUIRED AT THESE LOCATIONS.
E. WALL INSULATION PENETRATIONS: PROVIDE SPRAY POLYURETHANE INSULATION OR SEALANT AROUND ALL PENETRATIONS OF THE WALL INSULATION BY PIPING, CONDUITS, FRAMING, STRUCTURE, ETC.

WALL SECTION NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
0.004	INFILL TO MATCH ADJACENT CONSTRUCTION
0.007	EXISTING ROOF
0.008	EXISTING WEB JOISTS
0.009	EXISTING WALL CONSTRUCTION
3.120	CONCRETE FOOTING - REFER TO STRUCTURAL DRAWINGS
3.122	CONCRETE SLAB ON VAPOR BARRIER ON DRAINAGE FILL - REFER TO STRUCTURAL DRAWINGS
3.123	CONCRETE FROST SLAB - REFER TO STRUCTURAL DRAWINGS
3.133	DRAINAGE FILL
4.205	8" CMU
4.300	BRICK 1 - MODULAR - BELDON EBONY BLACK BRICK
4.480	MASONRY VENEER ANCHORS
4.640	
5.100	STEEL BEAM - REFER TO STRUCTURAL DRAWINGS
5.301	3 5/8" COLD-FORMED METAL FRAMING
5.303	6" COLD-FORMED METAL FRAMING
6.271	5/8" PLYWOOD WALL SHEATHING
6.274	5/8" GLASS-MAT GYPSUM WALL (OR SOFFIT) SHEATHING
6.279	3/4" PLYWOOD WALL SHEATHING
7.001	ROOFING SYSTEM - REFER TO ROOF PLAN
7.004	AIR SPACE
7.007	2" ROOF INSULATION
7.008	RUN ROOFING MEMBRANE UP WALL AND LAP OVER EXISTING ROOF, WELDED SEAM
7.010	2" ROOF INSULATION W/ COVERBOARD AS REQUIRED BY ROOFING MANUFACTURER
7.011	FLEXIBLE MEMBRANE FLASHING ADHERED TO WALL, WELD TO ROOFING MEMBRANE AND PROVIDE LAP SEALANT IF REQUIRED BY MANUFACTURER
7.250	3 1/2" THICK UNFACED FACED GLASS-FIBER BLANKET INSULATION
7.400	WEATHER BARRIER
7.440	1 1/2" BOARDSTOCK AIR BARRIER
7.610	METAL COMPOSITE MATERIAL WALL PANELS - B.O.D. ALUCOBOND, COLOR: DUSTY CHARCOAL II
7.735	SHEET METAL ROOFING
7.769	SHEET METAL COUNTERFLASHING
7.805	METAL COPING
8.370	SECTIONAL DOOR WITH FRAMED GLASS PANELS
8.430	STOREFRONT FRAMING
9.100	5/8" GYPSUM WALLBOARD (GWB)
9.131	3 5/8" METAL STUDS AT 1'-4" O.C. (20 GA)
9.270	ACOUSTICAL PANEL CEILING - REFER TO CEILING PLANS
10.231	1'-2" DIMENSIONAL LETTER SIGNAGE, COLOR: WHITE
23.002	MECHANICAL DUCTWORK - REFER TO MECH. DRAWINGS.
31.001	APPROXIMATE FINISH GRADE

VERIFICATION NOTE

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KEY PLAN

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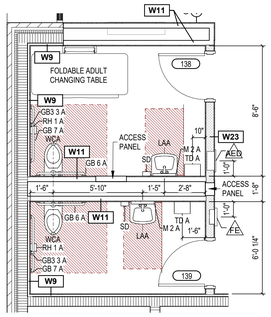
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

WALL SECTIONS

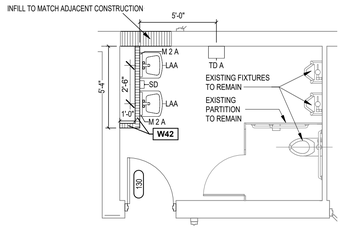
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1 ENLARGED RESTROOM PLAN

SCALE: 1/4" = 1'-0"

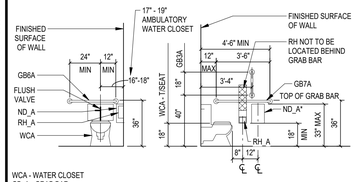


2 ENLARGED RESTROOM PLAN

SCALE: 1/4" = 1'-0"

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WATER CLOSETS AND ACCESSORIES

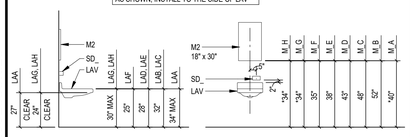


WCA - WATER CLOSET
GB_A - GRAB BAR
RH_A - TOILET ROLL HOLDER
ND_A - SANITARY NAPKIN DISPOSAL

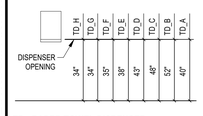
WHEELCHAIR ADULT ADA WATER CLOSETS

RESTROOM FIXTURES AND ACCESSORIES

*NOTE: IF USING ADA MIRROR OVER LAVATORY, SOAP DISPENSER WILL NOT FIT AS SHOWN, INSTALL TO THE SIDE OF LAV

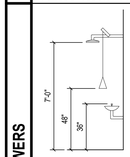


LV - LAVATORY, M - MIRROR, SD - SOAP DISPENSER



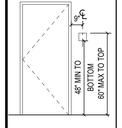
TD - PAPER TOWEL DISPENSER

SHOWERS

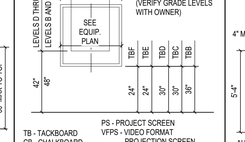


EMERGENCY EYEWASH AND SHOWER

OTHER MISC. EQUIPMENT

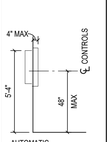


INTERIOR SIGN



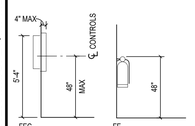
TB - TACKBOARD
CB - CHALKBOARD
MB - MARKERBOARD
PS - PROJECT SCREEN
VFPS - VIDEO FORMAT PROJECTION SCREEN
MMB - MULTI MEDIA DISPLAY BOARD

DISPLAY BOARDS/PROJECTION SCREENS



AUTOMATIC EXTERNAL DEFIBRILLATOR

AED CABINET



FEC
FIRE EXT. CABINET
FE
FIRE EXTINGUISHER

FIRE EXTINGUISHERS

MOUNTING HEIGHT NOTES:

1. MOUNTING HEIGHTS ARE BASED UPON THE FOLLOWING: TOILET, BATH AND LAUNDRY EQUIPMENT (ACCESSORIES), BOBRICK WASHROOM EQUIPMENT, INC. ; LAVATORIES, URINALS AND WATER CLOSETS, AMERICAN STANDARD, INC. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE MOUNTING HEIGHTS OF TOILET ACCESSORIES SUPPLIED BY OTHER MANUFACTURERS.
2. MOUNTING HEIGHT DRAWING INDICATES A TWO PIECE GRAB BAR. GRAB BAR MAY BE A ONE PIECE OR A TWO PIECE GRAB BAR. REFER TO SPECIFICATIONS FOR SPECIFIC TYPE OF GRAB BAR TO BE USED.
3. UNDERSCORE (_): REFER TO ENLARGED PLANS FOR MISSING NUMBER IDENTIFYNG THE SPECIFIC TYPE OF TOILET ACCESSORY

GRAB BAR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

GB1 - 36" x 54" TWO WALL
GB2 - 36"x36" TWO WALL
GB3 - 18" STRAIGHT
GB4 - 24" STRAIGHT
GB5 - 30" STRAIGHT
GB6 - 36" STRAIGHT
GB7 - 42" STRAIGHT
GB8 - 48" STRAIGHT

MIRROR SCHEDULE
(ALL SIZES MAY NOT BE USED ON THIS PROJECT)

M1 - 24"W x 60"H
M2 - 18"W x 30"H
M3 - 48"W x 30"H
M4 - 60"W x 30"H

SAMPLE TOILET ACCESSORY LABELING:

RH1A

RH INDICATES TOILET ACCESSORY NAME (RH = TOILET ROLL HOLDER
1 INDICATES TOILET ACCESSORY TYPE WHEN MORE THAN ONE TYPE IS SPECIFIED (IF NO NUMBER IS USED, ONLY ONE TYPE IS SPECIFIED)
A INDICATES THE GRADE LEVEL, WHICH DETERMINES THE MOUNTING HEIGHT

WCA INDICATES PLUMBING FIXTURE AT MOUNTING HEIGHT "A". REFER TO PLUMBING DRAWINGS FOR PLUMBING FIXTURE SCHEDULE

GRADE LEVEL LEGEND:

A. ADULT ACCESSIBLE (ADA) HEIGHTS (GRADES 7 AND ABOVE)
B. GRADES 9 AND ABOVE (ADULTS)
C. GRADES 7-8
D. GRADES 4-6
E. GRADES 1-3
F. PRESCHOOL-KINDERGARTEN
G. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (K-6)
H. CHILDREN'S ACCESSIBLE (ADA) HEIGHTS (PRESCHOOL)

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419.586.7771 WWW.FHAI.COM
128 W Market St, Celina, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

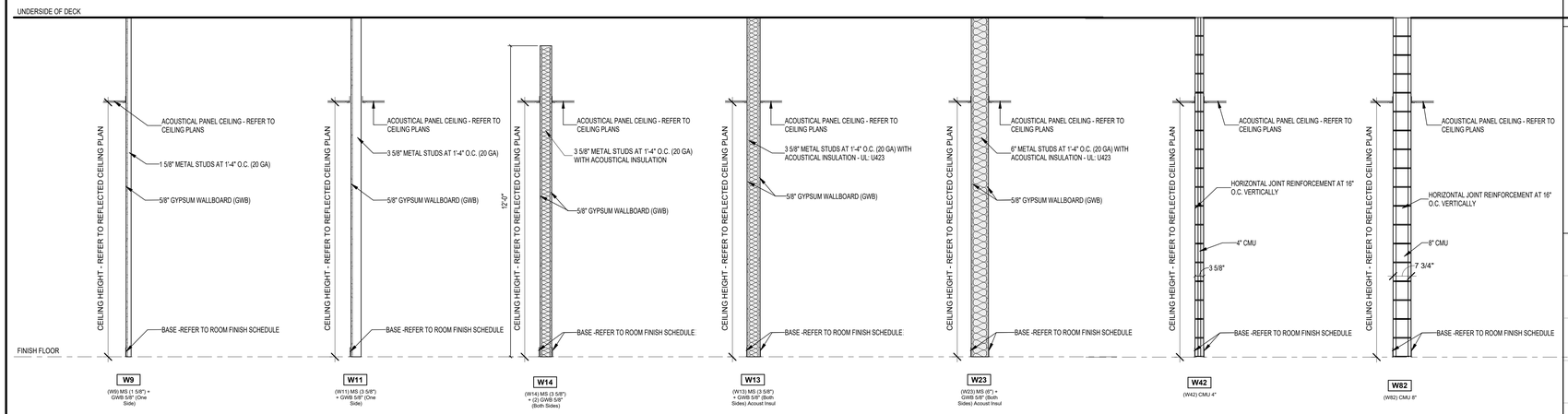
PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

ENLARGED TOILET ROOM PLANS

A-401

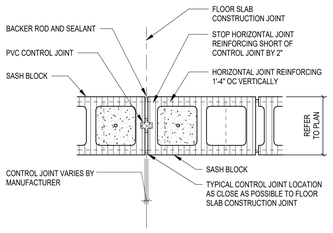


1 WALL TYPES
SCALE: 1/2" = 1'-0"

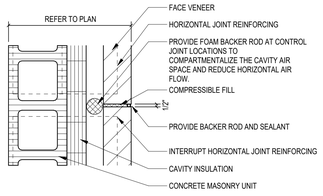
GYPSUM WALLBOARD SCHEDULE

LOCATION / TYPE	MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (WGWB)	ABUSE RESISTANT AND MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (ARGB) TO 6'-0" AFF MOISTURE-AND-RESISTANT GYPSUM BOARD ABOVE 6'-0" AFF	IMPACT RESISTANT AND MOISTURE-AND-MOLD-RESISTANT GYPSUM BOARD (IRGB) TO 6'-0" AFF MOISTURE-AND-RESISTANT GYPSUM BOARD ABOVE 6'-0" AFF	GLASS-MAT WATER RESISTANT TILE BACKING BOARD BEHIND AREAS TO RECEIVE TILE	CEMENTITIOUS BACKING BOARD BEHIND AREAS TO RECEIVE TILE. ("WET WALLS")	ACOUSTICALLY ENHANCED GYPSUM BOARD (AEGB)
CLASSROOMS, LABS, COLLABORATION, AND OTHER STUDENT OCCUPIED SPACES		●				
STUDENT RESTROOMS (EXCEPT WET WALLS)		●			●	
STAFF OFFICES, STAFF HALLWAYS, WORKROOMS, WAITING AREAS	●					
STAFF AND SINGLE STALL RESTROOMS (EXCEPT WET WALLS THAT RECEIVE TILE)	●				●	
LOBBIES, COMMONS, VESTIBULES, CORRIDORS			●	●		
MECHANICAL, ELECTRICAL, DATA, CUSTODIAL AND STORAGE ROOMS	●					
BULKHEADS AND CEILINGS	●					

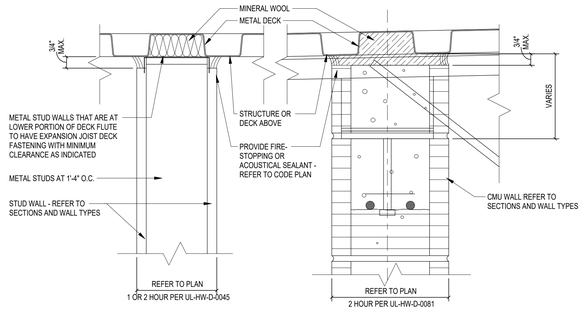
NOTES:
1. WET WALLS: WALLS WITH PLUMBING FIXTURES MOUNTED ON THEM AND WALLS IN SHOWER OR SIMILAR AREAS THAT WILL BE INTERMITTENTLY WET.
2. REFER TO INTERIOR DRAWINGS FOR LOCATIONS DIRECTED TO RECEIVE TILE.



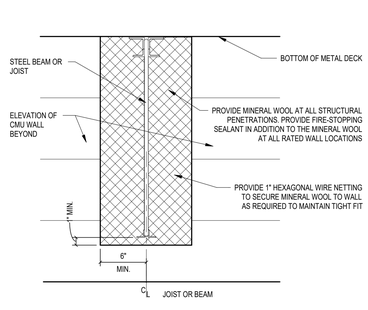
2 TYPICAL CONTROL JOINT
NOT TO SCALE



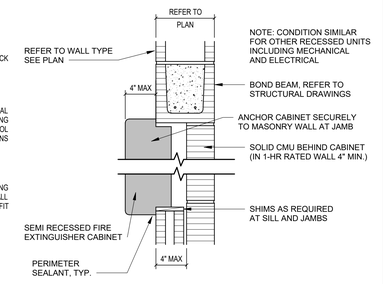
5 BRICK EXPANSION JOINT
SCALE: 1 1/2" = 1'-0"



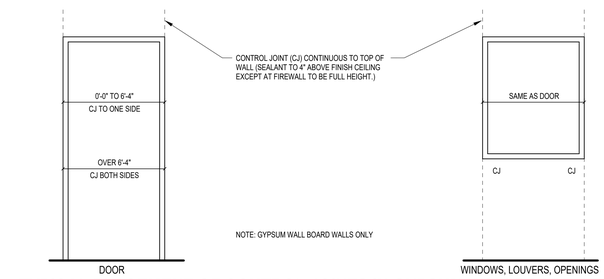
7 TYPICAL INTERIOR WALL AT DECK
SCALE: 3" = 1'-0"



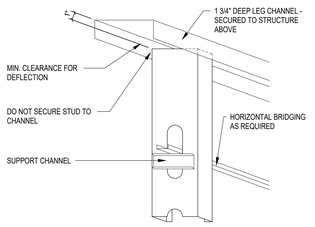
11 STRUCTURAL/WALL PENETRATION
NOT TO SCALE



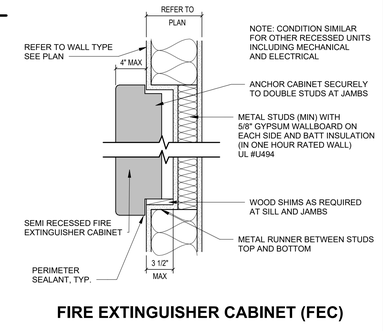
FIRE EXTINGUISHER CABINET (FEC)



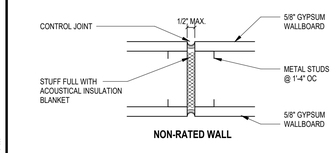
8 TYPICAL PLACEMENT OF CONTROL JOINTS IN GYPSUM WALLBOARD AT OPENINGS
NOT TO SCALE



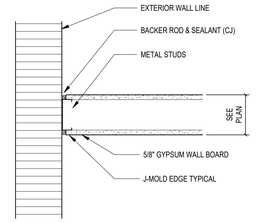
12 METAL STUDS
NOT TO SCALE



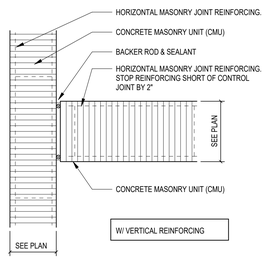
FIRE EXTINGUISHER CABINET (FEC)
TYPICAL FIRE EXTINGUISHER CABINET DETAILS
SCALE: 1 1/2" = 1'-0"



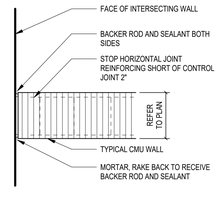
4 STUD WALL CONTROL JOINTS
NOT TO SCALE



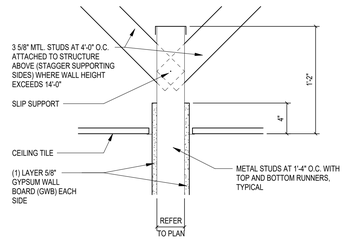
6 TYPICAL CONTROL JOINT
NOT TO SCALE



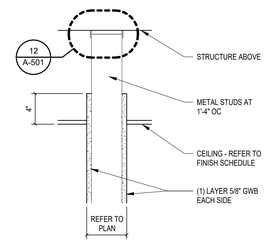
9 TYPICAL CONTROL JOINT
NOT TO SCALE



10 TYPICAL CONTROL JOINT
NOT TO SCALE



13 GYPSUM WALLBOARD WALL
NOT TO SCALE



15 GYPSUM WALLBOARD WALL
NOT TO SCALE

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JENNIFER M. FULLER, License # 1115297
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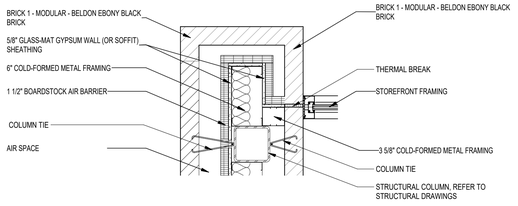
DRAWN BY: Author
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

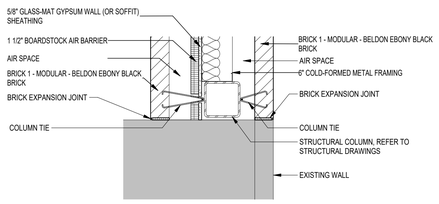
WALL TYPES AND DETAILS

A-501

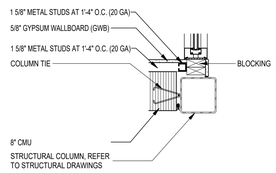
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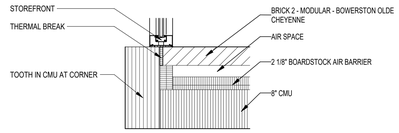
1 COLUMN DETAIL
SCALE: 1" = 1'-0"



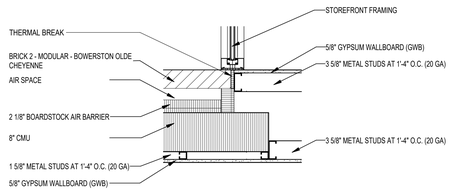
2 COLUMN DETAIL
SCALE: 1" = 1'-0"



3 COLUMN DETAIL
SCALE: 1" = 1'-0"



4 PLAN DETAIL
SCALE: 1" = 1'-0"



5 PLAN DETAIL
SCALE: 1" = 1'-0"

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JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

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PROJECT NUMBER: FH224102.00/WSU-231035

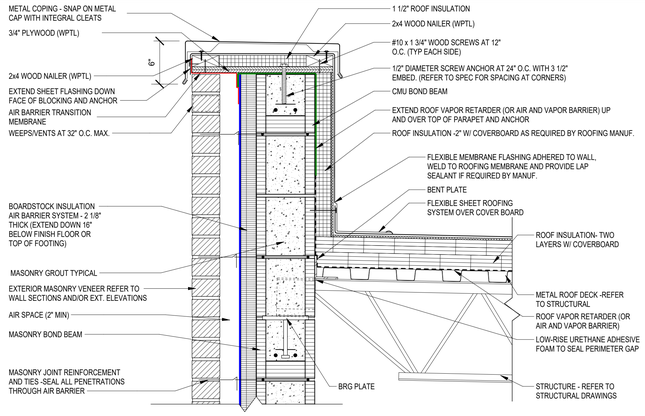
PROJECT ISSUE DATE: 09.04.2026

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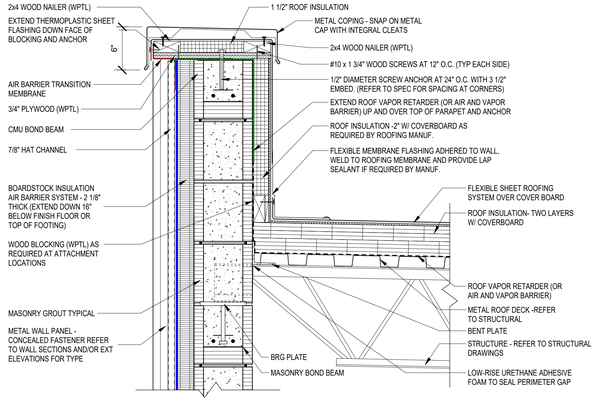
PLAN DETAILS

A-510

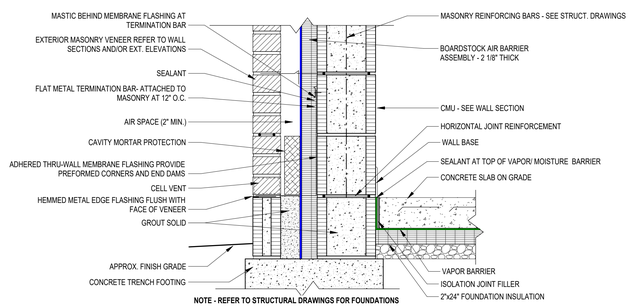
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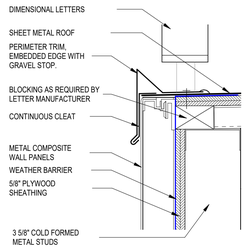
1 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



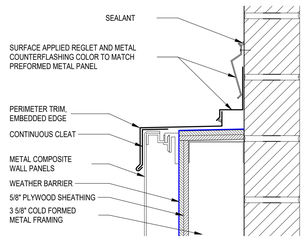
2 PARAPET DETAIL
SCALE: 1 1/2" = 1'-0"



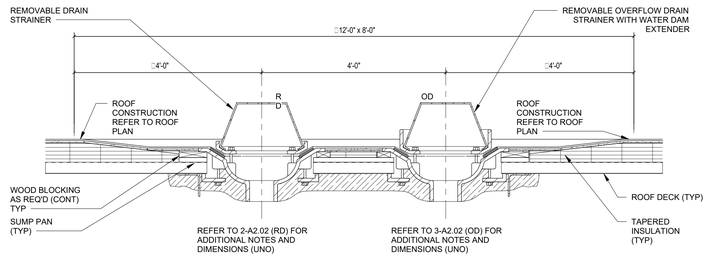
3 TYPICAL DETAIL AT FLOOR
SCALE: 1 1/2" = 1'-0"



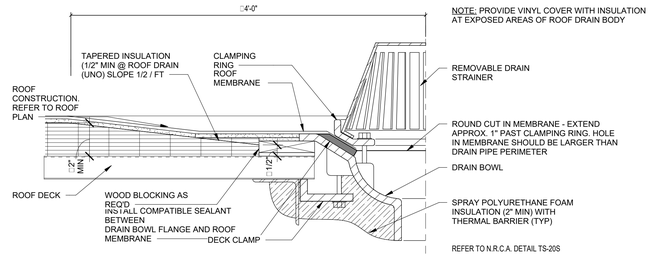
4 EMBEDDED EDGE WITH GRAVEL STOP
SCALE: 3" = 1'-0"



5 EMBEDDED EDGE - DRAINAGE EDGE
SCALE: 3" = 1'-0"



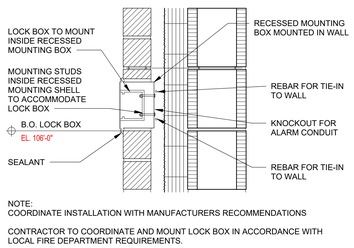
6 SECTION - ROOF DRAIN (RD) / OVERFLOW DRAIN (OD)
SCALE: 3/4" = 1'-0"



7 ROOF DRAIN (RD)
SCALE: 1 1/2" = 1'-0"



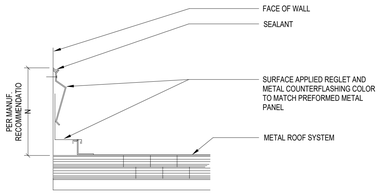
8 OVERFLOW DRAIN (OD)
SCALE: 1 1/2" = 1'-0"



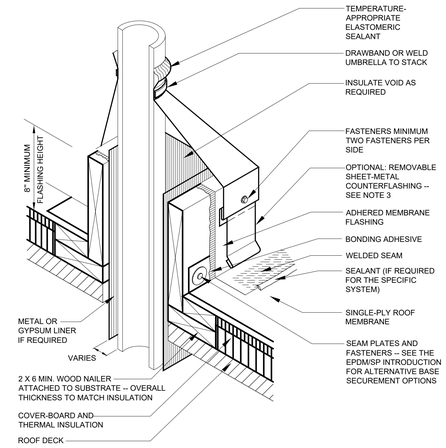
NOTE:
COORDINATE INSTALLATION WITH MANUFACTURERS RECOMMENDATIONS

CONTRACTOR TO COORDINATE AND MOUNT LOCK BOX IN ACCORDANCE WITH LOCAL FIRE DEPARTMENT REQUIREMENTS.

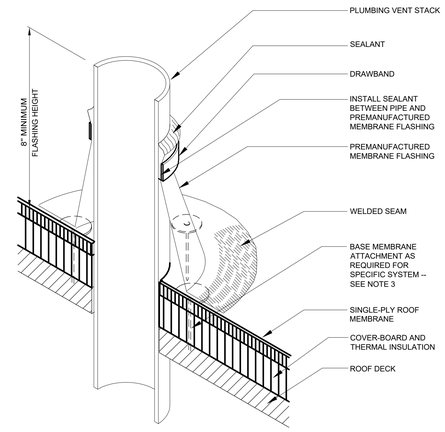
9 LOCK BOX RECESSED MOUNTING
SCALE: 1 1/2" = 1'-0"



10 ROOF TERMINATION
SCALE: 1 1/2" = 1'-0"



11 ISOLATED STACK FLASHING (HOT OR COLD)
SCALE: 12" = 1'-0"



12 PLUMBING VENT (PREMANUFACTURED BOOT)
SCALE: 12" = 1'-0"

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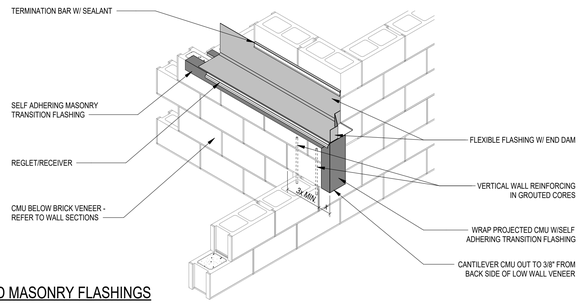
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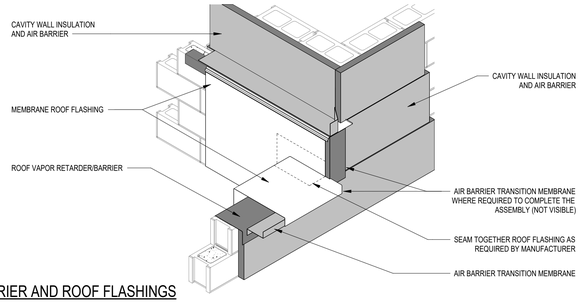
EXTERIOR ENVELOPE DETAILS

A-530

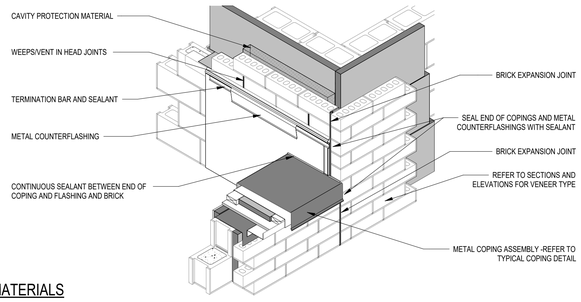
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CMU AND MASONRY FLASHINGS



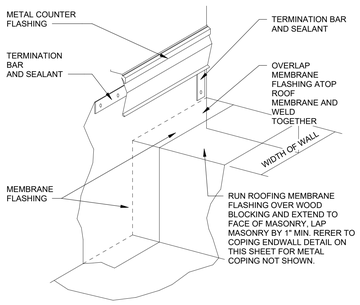
AIR BARRIER AND ROOF FLASHINGS



FINISH MATERIALS

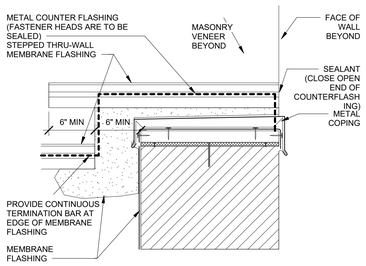
1 (A5-994) TYPICAL COPING WALL INTERSECTION

NOT TO SCALE



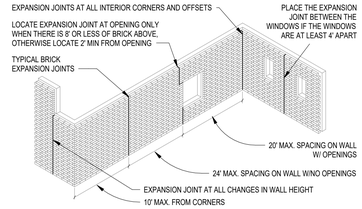
2 TYP. PARAPET ISOMETRIC FLASHING

NOT TO SCALE

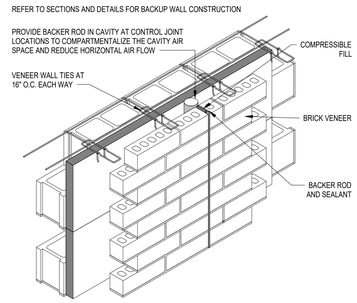


3 TYP. COPING ENDWALL FLASHING

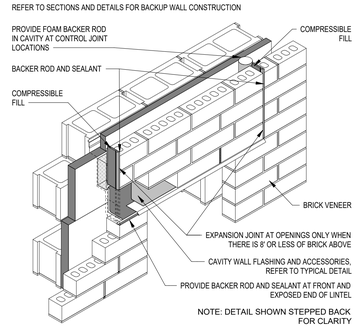
NOT TO SCALE



TYPICAL BRICK EXPANSION JOINT (EJ) LOCATIONS



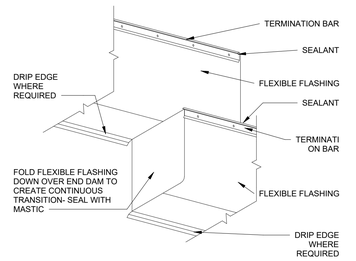
TYPICAL BRICK EXPANSION JOINT DETAIL



TYPICAL BRICK EXPANSION JOINT AT OPENINGS

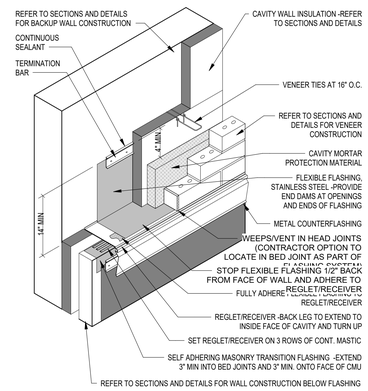
4 TYPICAL BRICK EXPANSION JOINTS

NOT TO SCALE

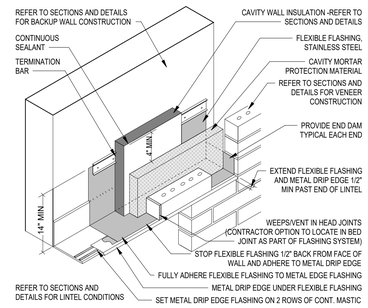


5 STEP FLASHING DETAIL

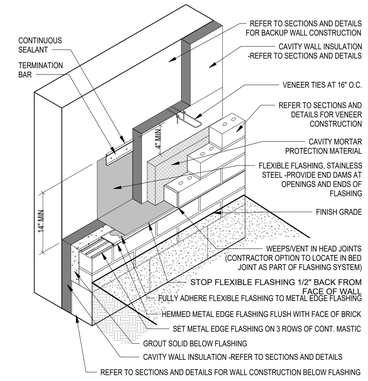
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TYPICAL CAVITY WALL FLASHING AT ROOF TO WALL



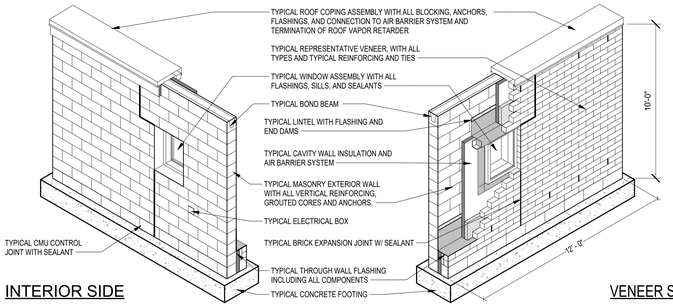
TYPICAL CAVITY WALL FLASHING ABOVE OPENINGS



TYPICAL CAVITY WALL FLASHING AT BASE OF WALL

6 TYPICAL CAVITY WALL FLASHINGS

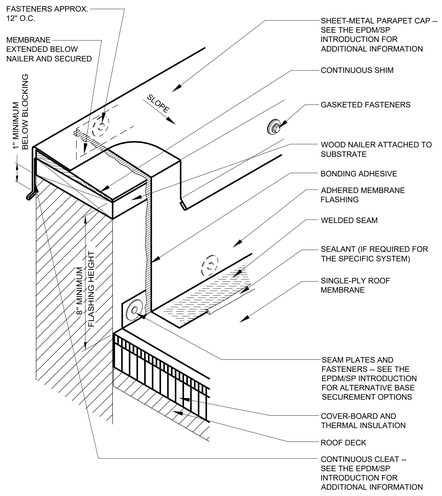
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INTERIOR SIDE VENEER SIDE

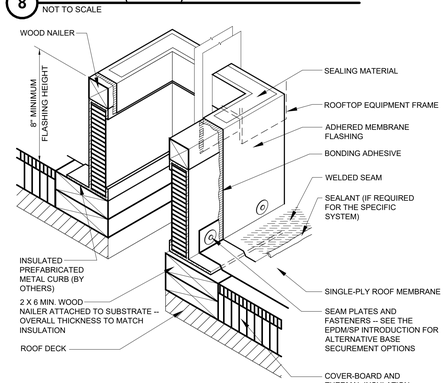
7 EXTERIOR WALL MOCK-UP

NOT TO SCALE



8 BASE FLASHING AT PARAPET WALL WITH METAL CAP (COPING)

NOT TO SCALE



9 INSULATED PREFABRICATED METAL CURB

NOT TO SCALE

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO JENNIFER M. FULLER 1115297 REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

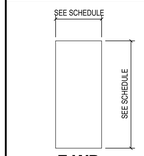
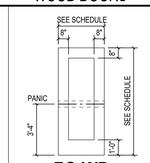
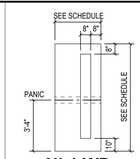
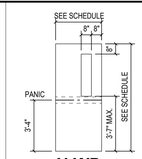
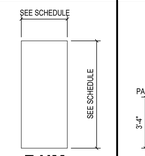
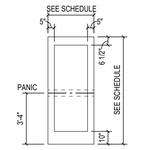
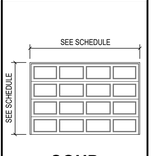
EXTERIOR ENVELOPE DETAILS

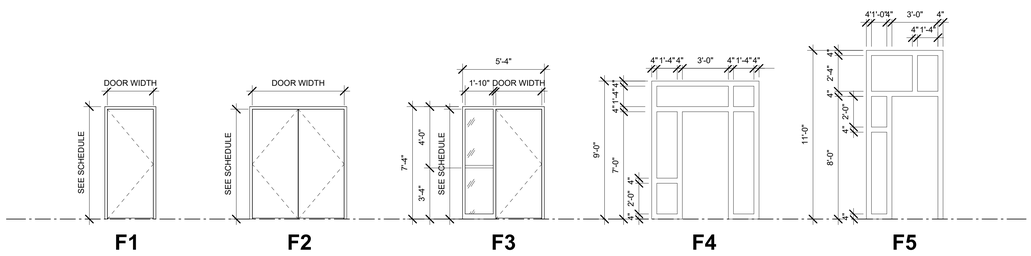
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DOOR AND FRAME SCHEDULE

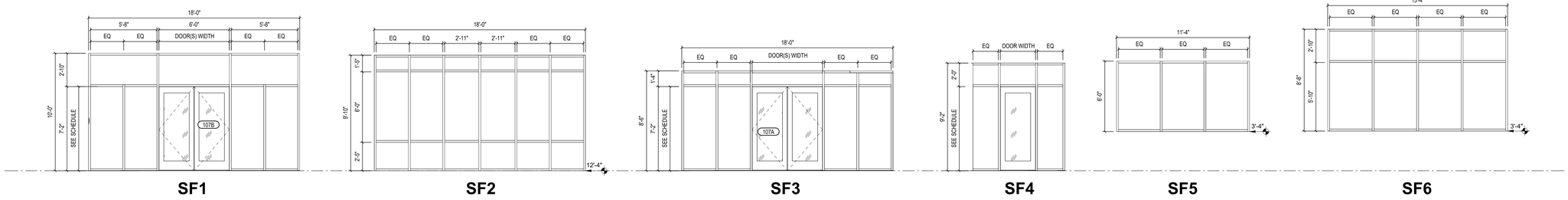
DOOR MARK	DOORS: DOOR SIZE (WxH)	DOORS: DOOR TYPE	FRAME: FRAME MATERIAL	FRAME: FRAME ELEVATION	FRAME: JAMB DEPTH	FRAME: DETAILS: HEAD	FRAME: DETAILS: JAMB	FRAME: DETAILS: SILL	FIRE RATING	HARDWARE: SET NO.	HARDWARE: KEYSIDE ROOM	STC RATING	REMARKS	DOOR MARK
107A	PR 3'-0" x 7'-2"	FGAL	AL	SF3	4 1/2"	-	-	8/A-620		9.0	EXT			107A
107B	PR 3'-0" x 7'-2"	FGAL	AL	SF1	4 1/2"	1/A-311	1/A-510	15/A-620		1.0	EXT			107B
112	3'-0" x 7'-2"	N WD	HM	F1	5 3/4"	3/A-620	4/A-620	-		13.0	112			112
114	3'-0" x 7'-2"	N WD	HM	F1	5 3/4"	3/A-620	4/A-620	-		13.0	114			114
116	3'-0" x 7'-2"	N WD	HM	F1	5 3/4"	3/A-620	4/A-620	-		13.0	116			116
117	3'-0" x 8'-0"	FG WD	HM	F5	6 3/4"	-	-	-		5.0	EXT		REINSTALL EXISTING WOOD DOOR IN NEW FRAME, VERIFY DIMENSIONS IN FIELD	117
118	3'-0" x 7'-2"	N WD	HM	F1	5 3/4"	3/A-620	4/A-620	-		13.0	118			118
119	3'-0" x 7'-0"	FG WD	HM	F4	8 1/2"	-	-	-		7.0	EXT		REINSTALL EXISTING WOOD DOOR IN NEW FRAME, VERIFY DIMENSIONS IN FIELD	119
119A	3'-0" x 6'-10"	F WD	HM	F1	5 3/4"	-	-	-		5.0	119		REINSTALL EXISTING WOOD DOOR IN NEW FRAME, VERIFY DIMENSIONS IN FIELD	119A
120	3'-0" x 7'-2"	FG WD	AL	SF7	4 1/2"	6/A-620	7/A-620	8/A-620		8.0	EXT			120
122	2'-8" x 7'-2"	F WD	HM	F1	5 3/4"	9/A-620	10/A-620	-		11.0	122			122
125	PR 3'-2" x 7'-2"	FG2 WD	HM	F2	5 3/4"			-		15.0	EXT			125
130	3'-0" x 7'-2"	F WD	HM	F1	5 3/4"	9/A-620	10/A-620	-		16.0	126			130
131	12'-0" x 10'-0"	SOHD	STL	-	2"	16/A-620	17/A-620			17.0	EXT			131
134	3'-0" x 7'-2"	NL1 WD	HM	F3	6 3/4"	3/A-620	4/A-620	5/A-620		13.0	134			134
135	3'-0" x 7'-2"	NL1 WD	HM	F3	6 3/4"	3/A-620	4/A-620	5/A-620		13.0	135			135
136	3'-0" x 7'-2"	NL1 WD	HM	F3	6 3/4"	3/A-620	4/A-620	5/A-620		13.0	136			136
137A	3'-0" x 7'-2"	FG WD	AL	SF8	4 1/2"	6/A-620	7/A-620	8/A-620		6.0	EXT			137A
137B	3'-0" x 7'-2"	FGAL	AL	SF4	4 1/2"	1/A-310	14/A-620	15/A-620		3.0	EXT			137B
138	3'-0" x 7'-2"	F WD	HM	F1	8 1/2"	3/A-620	4/A-620	-		10.0	138			138
139	3'-0" x 7'-2"	F WD	HM	F1	8 1/2"	3/A-620	4/A-620	-		14.0	139			139
140B	3'-0" x 7'-2"	FGAL2	AL	SF4	4 1/2"	1/A-310	14/A-620	15/A-620		2.0	EXT			140B
141	3'-0" x 7'-2"	F WD	HM	F1	5 3/4"	9/A-620	10/A-620	-		12.0	140			141
250	3'-0" x 6'-0"	F HM	HM	F1	5 3/4"	9/A-620	10/A-620	-		4.0	250			250

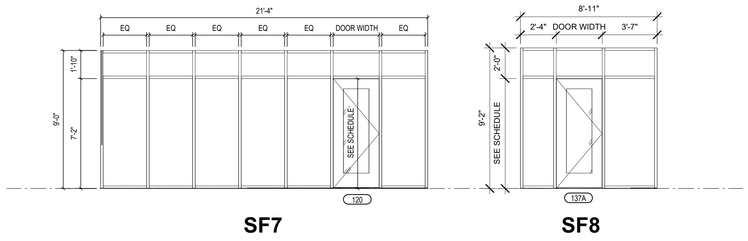
WOOD DOORS				HOLLOW METAL	ALUMINUM DOORS	OTHER
						
F WD	FG WD	NL1 WD	N WD	F HM	FGAL	SOHD
FLUSH DOOR	FULL GLASS WOOD	NARROW LITE LONG	NARROW LITE	FLUSH DOOR	FULL GLASS	SECTIONAL OVERHEAD DOOR



DOOR - HOLLOW METAL FRAME TYPES

SCALE: 1/4" = 1'-0"





STOREFRONT - FRAME TYPES

SCALE: 1/4" = 1'-0"

*ALL STOREFRONT FRAMES TO BE BLACK U.N.O.

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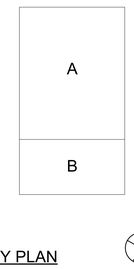
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ARCHITECT

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128 W Market St, Celina, OH 45822

KEY PLAN



CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

DRAWN BY: Author

PROJECT NUMBER: FH224102.00/WSU-231035

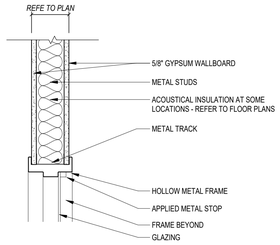
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REV. NO.	DESCRIPTION	DATE

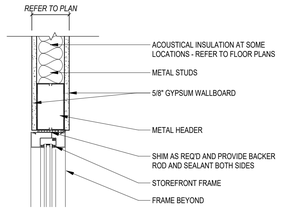
DOOR AND FRAME SCHEDULE

A-601

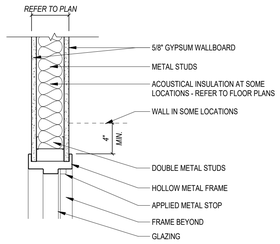
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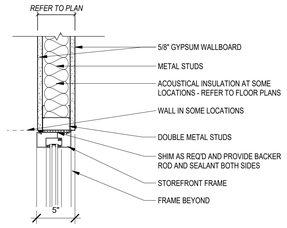
1 STUD HEAD (BL)
SCALE: 1 1/2" = 1'-0"



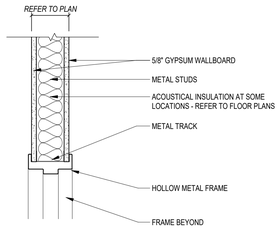
6 STUD HEAD (SF)
SCALE: 1 1/2" = 1'-0"



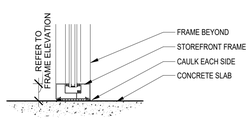
2 STUD JAMB (BL)
SCALE: 1 1/2" = 1'-0"



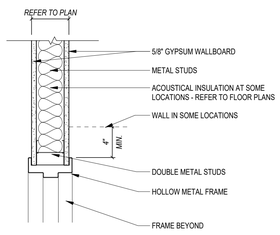
7 STUD JAMB (SF)
SCALE: 1 1/2" = 1'-0"



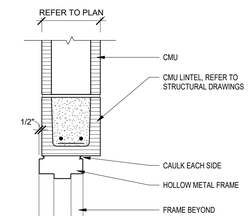
3 STUD HEAD (HM)
SCALE: 1 1/2" = 1'-0"



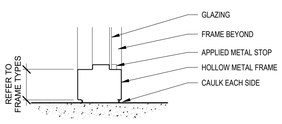
8 SILL FLOOR (SF)
SCALE: 1 1/2" = 1'-0"



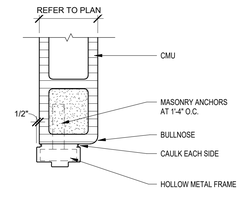
4 STUD JAMB (HM)
SCALE: 1 1/2" = 1'-0"



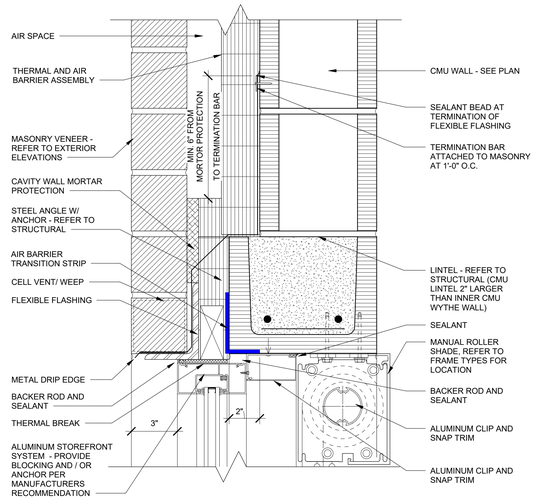
9 CMU HEAD (HM)
SCALE: 1 1/2" = 1'-0"



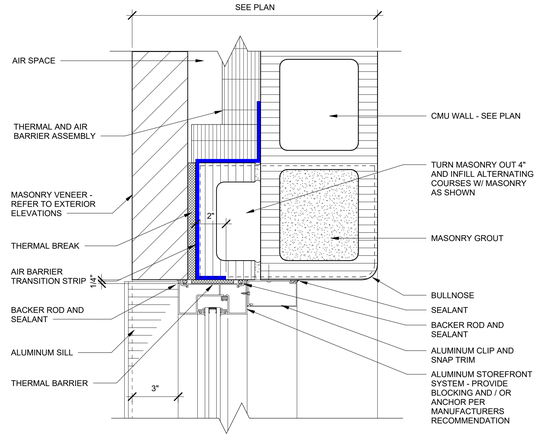
5 SILL-FLOOR (HM)
SCALE: 1 1/2" = 1'-0"



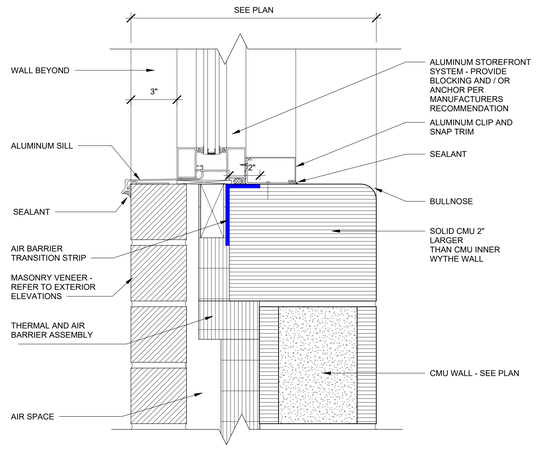
10 CMU JAMB (HM)
SCALE: 1 1/2" = 1'-0"



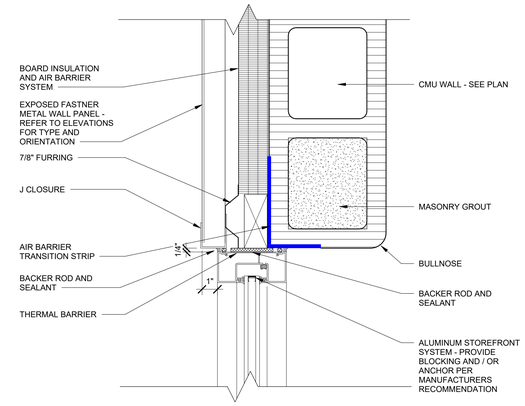
11 HEAD - STOREFRONT
SCALE: 3" = 1'-0"



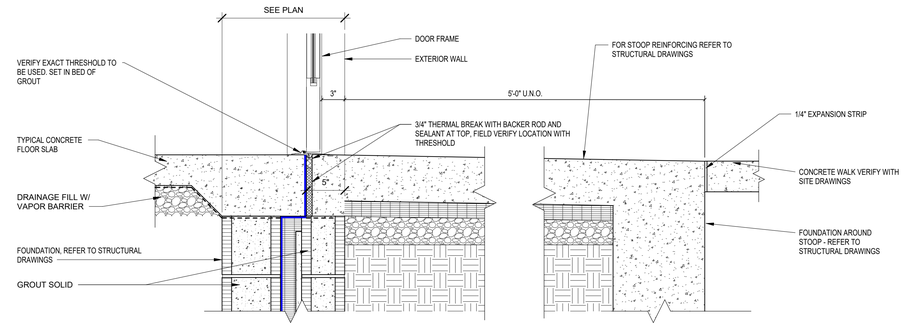
12 JAMB - STOREFRONT
SCALE: 3" = 1'-0"



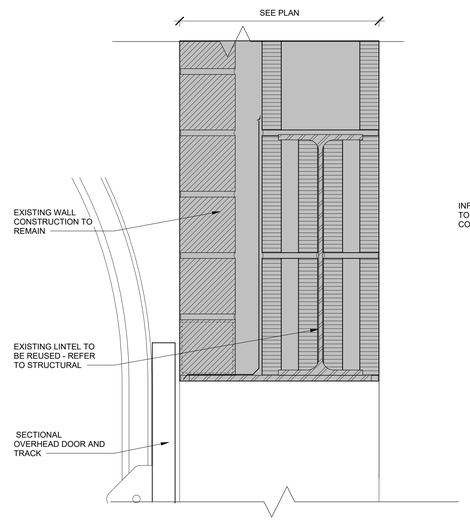
13 SILL - STOREFRONT
SCALE: 3" = 1'-0"



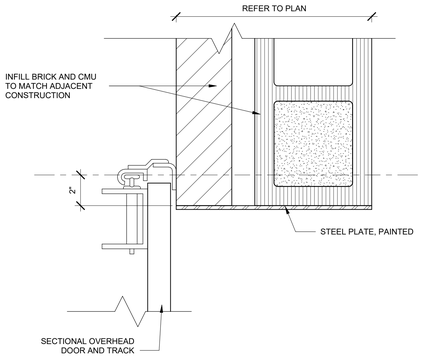
14 JAMB - STOREFRONT (DOOR)
SCALE: 3" = 1'-0"



15 THRESHOLD AND STOOP
SCALE: 1 1/2" = 1'-0"



16 HEAD - SOHD
SCALE: 3" = 1'-0"



17 JAMB - SOHD
SCALE: 3" = 1'-0"

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KEY PLAN

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JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/2027

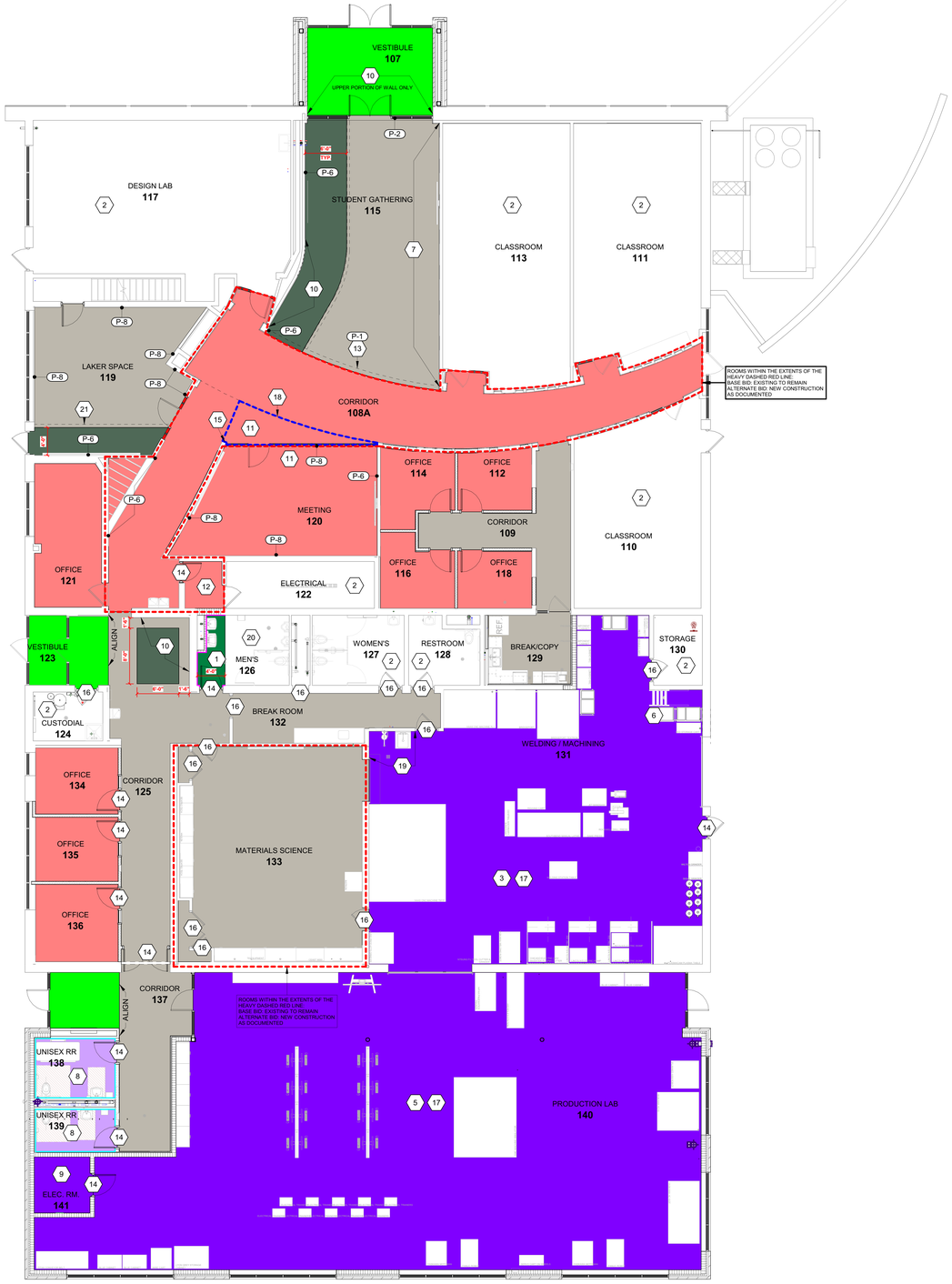
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PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

FRAME TYPES

A-620

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1 FIRST FLOOR FINISH PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - MASTER LIST

ROOM NO.	ROOM NAME	AREA (SF)
107	VESTIBULE	230 SF
108A	CORRIDOR	744 SF
108B	CORRIDOR	274 SF
109	CORRIDOR	213 SF
110	CLASSROOM	496 SF
111	CLASSROOM	612 SF
112	OFFICE	93 SF
113	CLASSROOM	677 SF
114	OFFICE	104 SF
115	STUDENT GATHERING	751 SF
116	OFFICE	102 SF
117	DESIGN LAB	843 SF
118	OFFICE	88 SF
119	LAKER SPACE	439 SF
120	MEETING	405 SF
121	OFFICE	197 SF
122	ELECTRICAL	184 SF
123	VESTIBULE	57 SF
124	CUSTODIAL	70 SF
125	CORRIDOR	510 SF
126	MEN'S	126 SF
127	WOMEN'S	133 SF
128	RESTROOM	92 SF
129	BREAK/COPY	120 SF
130	STORAGE	70 SF
131	WELDING / MACHINING	1930 SF
132	BREAK ROOM	190 SF
133	MATERIALS SCIENCE	812 SF
134	OFFICE	112 SF
135	OFFICE	109 SF
136	OFFICE	131 SF
137	CORRIDOR	292 SF
138	UNISEX RR	97 SF
139	UNISEX RR	69 SF
140	PRODUCTION LAB	3417 SF
141	ELEC. RM.	64 SF

FINISH GENERAL NOTES

A. REFER TO LIST OF FINISHES ON DRAWINGS SHEETS IF-601 FOR ADDITIONAL INFORMATION.
B. REFER TO DRAWING SHEET IF-602 FOR TYPICAL FLOOR TRANSITION DETAILS.
C. (P-X) ● INDICATES PAINT COLOR SELECTION FOR THE ENTIRE PLANE OF THE WALL OR SURFACE INDICATED TO BE PAINTED.
(P-X) ◆ ARROW POINTER DIRECTS CORNER TO CORNER OR ENTIRE SURFACE. REFER TO TI-601 AND IF-601 AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
D. (P-X) INDICATES PAINT COLOR SELECTION. REFER TO II-601 FOR ADDITIONAL INFORMATION AND PROJECT MANUAL FOR USE OF INTERIOR PAINT TYPES AND LOCATIONS, INCLUDING HIGH PERFORMANCE COATINGS.
E. REFER TO PROJECT MANUAL AND IF SERIES DRAWINGS FOR CLARIFICATION ON ALL ALTERNATE BID FINISHES VERSUS THOSE FINISHES PROVIDED IN BASE BID.

FLOOR PATTERN/FINISH KEY NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

- **REFER TO SHEET IF-601 FOR GENERAL FINISH PLAN NOTES AND LIST OF FINISHES.**
- **REFER TO SHEET IF-602 FOR TYPICAL FLOOR TRANSITION DETAILS AND ADDITIONAL INFORMATION.**

1. AS INDICATED WITH HEAVY PINK LINE (EXTENTS), PROVIDE CMT-1 COVE BASE WHERE CMT-1 FLOORING WAS PATCHED. REFER TO SHEET IF-601, IF-602 AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
2. NO WORK TAKING PLACE IN THIS ROOM. ALL FINISHES ARE EXISTING TO REMAIN.
3. PAINT EXPOSED STRUCTURE IN ENTIRE SPACE P3, WHITE.
4. NOT USED.
5. PAINT EXPOSED STRUCTURE IN ENTIRE SPACE P6, DARK GREEN. PAINT P-6 DOWN ONTO THE WALLS AND STOP IT AT 12'-0" A.F.F.
6. PAINT ALL EXPOSED STEEL ON STAIRS, RAILS, AND STRINGERS P4, BLACK.
7. PLASTIC LAMINATE PANEL AND METAL REVEAL SYSTEM. REFER TO CASEWORK ELEVATIONS AND PROJECT MANUAL FOR ADDITIONAL INFORMATION.
8. AS INDICATED WITH HEAVY CYAN LINE (EXTENTS), PROVIDE PWT FROM FINISHED FLOOR TO THE ACT CEILING (FULL HEIGHT OF THE WALL). TILE SHALL BE INSTALLED ON ALL WALLS IN THE RESTROOMS. REFER TO SHEET IF-601 AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
9. IN THIS ROOM, DO NOT PAINT THE WALLS OR EXPOSED CEILINGS. DO NOT INSTALL RESILIENT BASE (RB).
10. CONTRACTOR SUPPLIED, CONTRACTOR INSTALLED DIGITAL VINYL WALLCOVERING WITH OWNER SUPPLIED CUSTOM GRAPHIC. WALLCOVERING TO RUN THE FULL HEIGHT OF THE WALL AND WITHIN THE EXTENTS OF THE ARROWS. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
11. BASE BID: AS INDICATED WITH HEAVY DASHED BLUE LINE (EXTENTS), PATCH EXISTING CARPET WITH MATCHING ADJACENT CARPET. USE ATTIC STOCK OR SALVAGE EXISTING CARPET FROM OTHER RENOVATED SPACES TO PATCH FLOORING SO THERE ARE NO MISMATCHED PIECES INSTALLED. PATCH FLOORING SO THERE ARE NO SEAMS WHERE AS POSSIBLE. BASE BID: PAINT NEW AND EXISTING WALLS P-9, YELLOW. ALTERNATE BID: PAINT NEW AND EXISTING WALLS P-2, MEDIUM GREIGE.
12. PAINT BULKHEAD ABOVE (INDICATED WITH DASHED LINES) IN ACCENT PAINT COLOR INDICATED. PAINT ACCENT COLOR ON ALL SIDES OF BULKHEAD.
13. PAINT NEW HOLLOW METAL DOOR & DOOR FRAME P-4, BLACK. IF THERE IS A HOLLOW METAL DOOR ASSOCIATED WITH THE FRAME BEING PAINTED, THE DOOR MUST BE PAINTED THE SAME AS THE FRAME. PAINT ALL SIDES OF FRAMES AND DOORS (IF APPLICABLE).
14. BASE BID: INSTALL NEW RESILIENT BASE WHERE THERE IS FLOORING STOCK OR SALVAGE. REMOVE EXISTING RESILIENT BASE TO MATCH THE EXISTING BASE IN ADJACENT AREAS.
15. PAINT EXISTING HOLLOW METAL DOOR FRAME P-5, BLACK. IF THERE IS A HOLLOW METAL DOOR ASSOCIATED WITH THE FRAME BEING PAINTED, THE DOOR MUST BE PAINTED THE SAME AS THE FRAME. PAINT ALL SIDES OF FRAMES AND DOORS (IF APPLICABLE).
16. PAINT NEW & EXISTING WALLS P-3, WHITE.
17. BASE BID & ALTERNATE BID: PAINT NEW GYPSUM CEILINGS P-1, LIGHT GREIGE AND PAINT NEW BULKHEAD P-1 & P-2 CONTINUING THE PAINT SCHEME FROM THE EXISTING ADJACENT WALLS.
18. FRP PANEL. REFER TO SHEET IF-601 AND THE PROJECT MANUAL FOR ADDITIONAL INFORMATION.
19. PAINT NEW AND EXISTING WALLS P-7, CREAM.
20. PAINT EXISTING BULKHEAD P-10, MEDIUM GRAY.
21.

FLOOR PATTERN LEGEND

REFER TO IF-601 AND PROJECT MANUAL FOR ADDITIONAL INFORMATION. ALL FLOOR PATTERNS/FINISHES BELOW MAY NOT BE INDICATED ON THIS SHEET.

CARPET TILE
CART-1

ENTRANCE CARPET TILE
ECT-1

SOLID VINYL TILE
SVT-1
SVT-2

PAVER FLOOR TILE
PFT-1

PIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER
DSCH

CERAMIC MOSAIC TILE
CMT-1

PATCH WITH SALVAGED/ATTIC STOCK CARPET (BASE BID)

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM
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A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

PROJECT MANAGER: RW
DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

OVERALL FIRST FLOOR FINISH PLAN

IF-101

Autodesk Docs://WSU-L.C. - Workforce Development Project/2025_EDPT_224102.00.rvt
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LIST OF FINISHES

EQUIPMENT MATERIALS

HP PLASTIC LAMINATE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PL-1 [CABT & WALL PANELS]	FORMICA [MATTE/FINE VELVET]	NATURAL MAPLE 756
PL-2 [COUNTERTOPS]	WILSONART [MATTE/FINE VELVET]	HANDSPUN CHESTNUT 5036-38
PL-3 [WALL PANELS]	NEVAMAR [MATTE/FINE VELVET]	GREEN MATRIX II MR5007

BUTCHER BLOCK

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
BB-1	RED OAK - REFER TO PROJECT MANUAL	CLEAR POLYURETHANE

KICKPLATES

- STAINLESS STEEL

FLOOR MATERIALS

CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CART-1	TARKETT "CREATE BALANCE" [18" x 36"]	32810 CANDID
	MOHAWK "STONE COMMUNITY GT472"	CUSTOM TO MATCH
	PATCRAFT "MATERIAL" [24" x 24"]	EARTH 00780

ENTRANCE CARPET TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
ECT-1	TARKETT "ASSERTIVE STRIA" [24" x 24"]	CHROMIUM 26201
	MOHAWK "STEP IN STYLE II" [24" x 24"]	IRON ORE 983
	PATCRAFT "WALK RIGHT IN II" 10304 [24" x 24"]	CHARCOAL 00590

SOLID VINYL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
SVT-1	TARKETT "ID LATITUDE STONE" [18" x 18"]	3515 ALUMIN
	MOHAWK "MATUTO PLUS STONE" [12" x 24"]	TBS FROM STANDARDS
	PATCRAFT "AGGREGATE" [24" x 24"]	TBS FROM STANDARDS
SVT-2	TARKETT "ID LATITUDE ABSTRACT"	7555 KINGSTON
	MOHAWK "MATUTO PLUS STONE [12" x 24"]	CUSTOM TO MATCH
	PATCRAFT "GRAPH" [24" x 24"]	PINE 00310

PAVER FLOOR TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PFT-1	DALTILE "VOLUME 1.0" [12" x 24"]	TRUFFLE VL64
	AMERICAN OLEAN "THEORETICAL EVOLVED" [12" x 24"]	TBS FROM STANDARDS
	CROSSVILLE "COLOR BLOX 2.0" [12" x 24"]	SEA OTTER CBX08

PIGMENTED MINERAL DRY-SHAKE FLOOR HARDENER

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER
DSCH	REFER TO SPECIFICATIONS

CERAMIC MOSAIC TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CMT-1	DALTILE "KEYSTONES" [2" x 2"]	TBS TO MATCH EXISTING
	AMERICAN OLEAN "UNGLAZED MOSAICS" [2" x 2"]	TBS TO MATCH EXISTING
	CROSSVILLE "MULTIPLIER" [2" x 2"]	TBS TO MATCH EXISTING

BASE MATERIALS

RESILIENT BASE — COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RB-1	TARKETT "BASEWORKS (TS) or DURACOVE (TP)"	BLACK
	MANNINGTON	BLACK
	NORA	BLACK
	FLEXCO	BLACK
	ROPPE	BLACK
	VPI	BLACK
RB-2	TARKETT "BASEWORKS (TS) or DURACOVE (TP)"	TO MATCH EXISTING
	MANNINGTON	TO MATCH EXISTING
	NORA	TO MATCH EXISTING
	FLEXCO	TO MATCH EXISTING
	ROPPE	TO MATCH EXISTING
	VPI	TO MATCH EXISTING

DECORATIVE RESINOUS FLOORING — 6"H INTEGRAL COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
DRF-1	KEY RESIN COMPANY	ARCHITECT TO SELECT FROM
	DURA-A-FLEX INC.	FULL RANGE OF STANDARD
	STONHARD INC.	BASE COAT PIGMENT COLORS,
	GENERAL POLYMERS CORP.	ALONG WITH UP TO 5 VINYL
		FLAKE AGGREGATE CHIP CLRS (GRAYS, WHITE, GREENS, BLACK, ETC.)

TRANSITION FROM PWT TO PFT = SCHLUTER COVE

- AT TRANSITION BETWEEN PAVER FLOOR TILE (PFT) AND PAVER WALL TILE (PWT): PROVIDE SCHLUTER DILEX-EHK COVE TRANSITION AND ALL COORDINATING CORNER, END CAPS AND TRIM PIECES FOR SEALESS TRANSITION.
- COLOR TO BE BRUSHED STAINLESS STEEL.

CERAMIC MOSAIC TILE — 5"H INTEGRAL COVE BASE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
CMT-1	DALTILE "KEYSTONES" 2X2	TO MATCH EXISTING
	AMERICAN OLEAN "UNGLAZED MOSAICS" 2X2	TO MATCH EXISTING
	CROSSVILLE "MULTIPLIER" [2" x 2"]	TO MATCH EXISTING

WALL FINISHES

PAINT

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
P-1 [LIGHT GREIGE]	SHERWIN WILLIAMS	SW7043 WORLDLY GRAY
P-2 [MEDIUM GREIGE]	SHERWIN WILLIAMS	SW7045 INTELLECTUAL GRAY
P-3 [WHITE]	SHERWIN WILLIAMS	SW7004 SNOWBOUND
P-4 [BLACK]	SHERWIN WILLIAMS	SW6258 TRICORN BLACK
P-5 [KELLY GREEN]	SHERWIN WILLIAMS	SW6741 DERBYSHIRE
P-6 [DARK GREEN]	SHERWIN WILLIAMS	SW2847 ROYCROFT BOTTLE GREEN
P-7 [CREAM]	SHERWIN WILLIAMS	SW7042 SHOJI WHITE
P-8 [GRAY]	SHERWIN WILLIAMS	SW7066 GRAY MATTERS
P-9 [YELLOW]	SHERWIN WILLIAMS	SW6128 BLONDE
P-10 [MEDIUM GRAY]	SHERWIN WILLIAMS	SW6277 SPECIAL GRAY

PAVER WALL TILE

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PWT-1	DALTILE "VOLUME 1.0"	DEGREES SILVER
	AMERICAN OLEAN "THEORETICAL EVOLVED" [12" x 24"]	TBS FROM STANDARDS
	CROSSVILLE "COLOR BLOX 2.0"	SLINKYCBX03

- AT ALL EXPOSED EDGES OF WALL TILE PROVIDE SCHLUTER JOLLY AS REQUIRED FOR FINISHED EDGE.
- COLOR TO BE BRUSHED STAINLESS STEEL.

FIBERGLASS REINFORCED PLASTIC

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
FRP-1	REFER TO SPECIFICATIONS	WHITE

- SURFACE FINISH ON ALL PLASTIC SHEETS TO BE SMOOTH.
- ALL TRIM PIECES TO BE WHITE TO MATCH THE PANELS.

MISCELLANEOUS FINISHES

INTERIOR WOOD DOORS/ INTERIOR WOOD TRIM

- ALL WOOD TRIM/RAILS/DOORS/ETC. TO BE STAINED TO MATCH EXISTING DOORS.
- WOOD SPECIES TO MATCH EXISTING WOOD DOORS.
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- SUBMIT ACTUAL STAINED WOOD DOOR SAMPLE FOR VERIFICATION & APPROVAL.

RESILIENT MOLDING ACCESSORIES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
RMA-1	TARKETT	BLACK
	MANNINGTON	BLACK
	NORA	BLACK
	FLEXCO	BLACK
	ROPPE	BLACK
	VPI	BLACK

P.E.T. FELT CEILING CLOUDS & BAFFLES

MATERIAL ABBREVIATION	MATERIAL/MANUFACTURER	COLOR SELECTION
PET-1 [BLADE BAFFLE]	KINETICS "KLEEN"	TBS (DARK GREEN)
	HUDDL DESIGN	
	MDC "ZINTRA"	
	MPS ACOUSTICS	
	AUTEX INTERIOR ACOUSTICS	
PET-2 [ROUND CLOUD]	KINETICS "KLEEN"	TBS (DARK GREEN)
	HUDDL DESIGN	
	MDC "ZINTRA"	
	MPS ACOUSTICS	
	AUTEX INTERIOR ACOUSTICS	
PET-3 [ROUND CLOUD]	KINETICS "KLEEN"	TBS (YELLOW)
	HUDDL DESIGN	
	MDC "ZINTRA"	
	MPS ACOUSTICS	
	AUTEX INTERIOR ACOUSTICS	
PET-4 [ROUND CLOUD]	KINETICS "KLEEN"	TBS (KELLY GREEN)
	HUDDL DESIGN	
	MDC "ZINTRA"	
	MPS ACOUSTICS	
	AUTEX INTERIOR ACOUSTICS	

EQPT MATERIAL & FINISH GEN. NOTES

C. PLASTIC LAMINATE FACED ARCHITECTURAL CABINETRY (CUSTOM CASEWORK - DIV. 06) CASEWORK FINISHES ARE AS FOLLOWS (U.N.O.):

- HIGH PRESSURE PLASTIC LAMINATE COUNTERTOPS AND WORKSURFACES ARE TO BE PL-2, UNLESS OTHERWISE NOTED.
  - 3MM AND 1MM PVC EDGES ON COUNTERTOPS AND WORKSURFACES ARE TO MATCH PL-2. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND SELECTION. 3MM AND 1MM EDGES TO MATCH PL-2 ARE TO BE MANUFACTURED UTILIZING THE SAME LAMINATE PAPER, PATTERN AND COLORATION AS PL-2. DEVIATION FROM CUSTOM PRECISE MATCH IS NOT ACCEPTABLE.
    1. DOELLKEN/CANPLAST - MATCH TO PL-2
    2. CHARTER INDUSTRIES - MATCH TO PL-2
    3. TEKNAFORM - MATCH TO PL-2
    4. WILSONART - MATCH TO PL-2
- HIGH PRESSURE PLASTIC LAMINATE CABINETS/VERTICAL SURFACES ARE TO BE PL-1, UNLESS OTHERWISE NOTED. INTERIOR MELAMINE TO BE WHITE.
  - 3MM AND 1MM PVC EDGES ON STUDENT CASEWORK ARE TO MATCH PL-1. SUBMIT ALL MANUFACTURER SAMPLES FOR VERIFICATION AND SELECTION. 3MM AND 1MM EDGES TO MATCH PL-1 ARE TO BE MANUFACTURED UTILIZING THE SAME LAMINATE PAPER, PATTERN AND COLORATION AS PL-1. DEVIATION FROM CUSTOM PRECISE MATCH IS NOT ACCEPTABLE.
    1. DOELLKEN/CANPLAST - MATCH TO PL-1
    2. CHARTER INDUSTRIES - MATCH TO PL-1
    3. TEKNAFORM - MATCH TO PL-1
    4. WILSONART - MATCH TO PL-1
- HANDLES TO BE SILVER METALLIC POWDERCOAT.
- HINGES TO BE SILVER METALLIC POWDERCOAT.
- GROMMETS TO MATCH MOCKETT 93P PECAN ON ALL COUNTERTOPS AND WORKSURFACES.
- WHERE APPLICABLE, TECHNOLOGY CABINET VENTS, VENT GRILLES, ETC. TO MATCH MOCKETT 93 PUTTY PER LAMINATE INSTALLED ON CORRESPONDING WARDROBE TECHNOLOGY, SOUND SYSTEM, WALL TECH CABINETS, ETC. (SUBMIT ALL COLOR SAMPLES FOR VERIFICATION & APPROVAL).

ALL PLAM-FACED ARCHITECTURAL CASEWORK TO BE LOCKABLE.

MATERIAL & FINISH GENERAL NOTES

GENERAL/ MISC.
A. REFER TO FINISH PLAN DRAWINGS AND DETAILS (IF SERIES) FOR MATERIALS, PATTERNS AND COLORS.
B. REFER TO IF-601 FOR LIST OF FINISHES.

FLOORING
A. CENTER FLOORING TILE AND PATTERN IN ROOM UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. ALIGN EDGE OF FINISHED FLOOR MATERIAL WITH EDGE OF WALL OR CASEWORK.
C. FLOOR FINISH MATERIAL TRANSITIONS SHALL OCCUR UNDER THE CENTER OF THE DOOR UNLESS OTHERWISE INDICATED, WHERE THE FLOORING MATERIAL CHANGES FROM ROOM TO ROOM.
D. EXTEND FLOOR MATERIAL AND PATTERN UNDER ALL OPEN TO THE FLOOR CASEWORK AND FURNITURE.
E. COORDINATE CONTROL JOINTS IN CONCRETE SLAB WITH STRUCTURAL DRAWINGS AND FINISH FLOORING INSTALLER.
F. REFER TO FLOOR PLANS, RESTROOM ENLARGED PLANS, PLUMBING DRAWINGS, ETC. FOR FLOOR DRAIN LOCATIONS.
G. AT BUILDING EXPANSION JOINTS (IF APPLICABLE) PROVIDE PRE-FABRICATED MOVEMENT PROFILE SYSTEM IN MORTAR BED. PROVIDE SCHLUTER DILEX-EDP OR APPROVED EQUAL. TYPICAL AT ALL LOCATIONS.

CARPET TILE
A. ALL CARPET TILE BACKING TO HAVE A MOISTURE RESISTANT BARRIER AND BE HARDBACK.
B. INSTALLATION METHOD TO BE VERTICAL ASHLAR FOR ALL CARPET TILE LISTED, REGARDLESS OF PLANKS, SQUARES OR SIZE OF TILE. SUBMIT INSTALLATION DRAWINGS INDICATING LAYOUT OF CARPET TILE PRIOR TO INSTALLATION FOR APPROVAL.
C. ADDITIONAL MANUFACTURERS LISTED MUST CUSTOM MATCH BASIS OF DESIGN PRODUCT AS LISTED, INCLUDING PATTERN, YARN TYPE AND DYE METHOD, PATTERN REPEAT WIDTH AND LENGTH, MODIFICATION RATIO, MINIMUM FACE WEIGHT AND MINIMUM DENSITY FACTOR (DENSITY FACTOR = FACE WEIGHT X 36 / PILE THICKNESS)

WALL BASE
A. RESILIENT BASE (RB-1) TO BE INSTALLED AT ALL NEW CART, ECT, SVT AND DSCH LOCATIONS UNLESS OTHERWISE INDICATED.
B. ALL RB BASE TO BE COVED.
C. AT RB LOCATIONS PROVIDE PREFORMED OUTSIDE CORNERS, AND USE MANUFACTURER'S RECOMMENDED ADHESIVE (CONTACT CEMENT) FOR PROPER ADHESION WITH NO GAPS.

PAINT & STAIN
A. PAINT ALL WALLS UNLESS OTHERWISE INDICATED ON FINISH PLANS.
B. PAINT ONCE MOCK-UP OFFICE TO RECEIVE ARCHITECT'S APPROVAL PRIOR TO ORDERING PAINT FOR THE ENTIRE BUILDING.
C. ALL WOOD TRIM/RAILS/DOORS/ETC. TO BE CLEAR POLYURETHANE
   - WOOD SPECIES TO BE STAIN GRADE BIRCH.
   - REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
   - SUBMIT ACTUAL CUSTOM STAINED BIRCH SAMPLE FOR VERIFICATION AND APPROVAL.

PAINT TYPE GENERAL NOTES

A. UNDER SECTION 099123 - INTERIOR PAINTING, PAINT EXPOSED PIPES, DUCTWORK, BREACHING, CONDUIT, INSULATED PIPES, CONDUIT HANGERS, SUPPORTS, BRACING, ETC., WHICH OCCURS IN SPACES DESIGNATED TO BE PAINTED IN PART OR WHOLE.
B. PAINTING AND FINISHING OF EXTERIOR SURFACES AS DESIGNATED. DETAILS SHALL BE UNDER THE WORK SECTION 099113 - EXTERIOR PAINTING OR 099600 - HIGH PERFORMANCE COATINGS. REFER TO PROJECT MANUAL.
C. ALL GYPSUM BOARD WALLS (VERTICAL WHERE FREQUENT CLEANING WILL NOT OCCUR) SHALL BE PAINTED WITH INTERIOR PAINT TYPE # 9.22 (EGGSHELL) UNLESS OTHERWISE INDICATED.
D. ALL GYPSUM BOARD CEILINGS AND SOFFITS SHALL BE PAINTED WITH PAINT TYPE #9.21 (FLAT) UNLESS OTHERWISE INDICATED.
E. ALL GYPSUM BOARD WALLS (VERTICAL WHERE FREQUENT CLEANING WILL OCCUR) SHALL BE PAINTED WITH PAINT TYPE #9.23 (SEMI-GLOSS) UNLESS OTHERWISE INDICATED.
F. PAINT ALL NON-INTEGRALLY COLORED CMU WALLS WITH INTERIOR PAINT TYPE #4.14 (SEMI-GLOSS), UNLESS OTHERWISE INDICATED.
G. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.222 [CMU-RR-WET] (EPOXY-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
   a. **[126]**
H. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #4.224 [CMU-RR-DRY] (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
   a. **[126, 131, 140]**
I. IN THE FOLLOWING ROOMS PAINT WITH PAINT CODE #9.211 [GYP. BD.] (EPOXY-SEMI-GLOSS). REFER TO SECTION 099600 - HIGH PERFORMANCE COATINGS.
   a. **[131]**
J. ALL FERROUS METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.12.
K. ALL GALVANIZED METAL (EXCLUDING STRUCTURE) SHALL BE PAINTED INTERIOR PAINT TYPE #5.32.
L. ALL EXPOSED STEEL (FERROUS) STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.11.
M. ALL EXPOSED GALVANIZED-METAL STRUCTURE SHALL BE PAINTED INTERIOR PAINT TYPE #5.31.
N. ALL CONCRETE SUBSTRATES, INCLUDING PRECAST CONCRETE, SHALL BE PAINTED INTERIOR PAINT TYPE #3.11.
O. ALL COTTON, CANVAS, ETC. ON PIPE AND DUCT COVERINGS SHALL BE PAINTED INTERIOR PAINT TYPE #10.11.
P. ALL WALLS ARE TO RECEIVE A SEMI-GLOSS FINISH AND ALL CEILINGS/BULKHEADS ARE TO RECEIVE A FLAT FINISH.

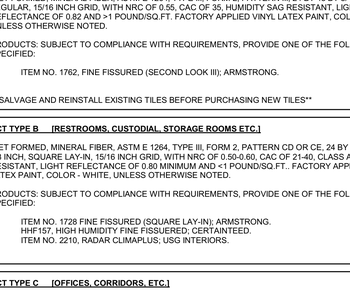
PAINT COLOR GENERAL NOTES

A. ALL NEW INTERIOR WALLS SHALL BE PAINTED P-1 & P-2, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
B. ALL EXISTING WALLS WHERE FLOORING IS BEING REPLACED SHALL BE PAINTED P-1 & P-2, UNLESS OTHERWISE INDICATED ON FINISH PLANS OR INTERIOR ELEVATIONS.
C. PAINT ALL GWB SOFFITS P-1 UNLESS OTHERWISE NOTED ON FINISH PLANS OR INTERIOR ELEVATIONS.
D. PAINT ALL SIDES (HORIZ. AND VERT.) OF SOFFIT INDICATED COLOR, UNLESS OTHERWISE NOTED.
E. PAINT ALL PAINTED EXPOSED CEILINGS AND GYPSUM BOARD CEILINGS P-3 UNLESS OTHERWISE NOTED ON FINISH PLANS, CEILING PLANS, OR INTERIOR ELEVATIONS.
F. ALL INTERIOR HOLLOW METAL DOOR & WINDOW FRAMES AND INTERIOR HOLLOW METAL DOORS ARE TO BE PAINTED P-4 UNLESS OTHERWISE NOTED.
G. ALL EXPOSED INTERIOR STEEL COLUMNS SHALL BE PAINTED TO MATCH ADJACENT WALL COLOR, UNLESS OTHERWISE INDICATED ON INTERIOR ELEVATIONS OR FINISH PLANS.
H. ALL EXPOSED MECHANICAL DUCTWORK, INCLUDING INSULATION WRAP IF APPLICABLE, TO BE PAINTED P-3 UNLESS OTHERWISE NOTED.
I. ALL EXPOSED STRUCTURE, CEILING, DECK, ETC. TO BE PAINTED P-3 UNLESS OTHERWISE NOTED.
J. ALL EXPOSED PLUMBING, ELECTRICAL, TECHNOLOGY, ETC. TO BE PAINTED P-3 UNLESS OTHERWISE NOTED, OR PAINTED TO MATCH SPECIFIC WALL COLOR AS IDENTIFIED ON FINISH PLANS & INTERIOR ELEVATIONS.

ACOUSTIC CEILING SCHEDULE

ACT TYPE	ITEM DESCRIPTION
A	**ACT TYPE A [CONFERENCE ROOM]** WET FORMED, MINERAL FIBER, ASTM E 1264, TYPE III, FORM 2, PATTERN III, 24 BY 48 BY 3/4 INCH, ANGLED TEGULAR, 15/16 INCH GRID, WITH NRC OF 0.55, CAC OF 35, HUMIDITY SAG RESISTANT, LIGHT REFLECTANCE OF 0.82 AND >1 POUND/SQ.FT. FACTORY APPLIED VINYL LATEX PAINT, COLOR - WHITE, UNLESS OTHERWISE NOTED. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS SPECIFIED: • ITEM NO. 1762, FINE FISSURED (SECOND LOOK III); ARMSTRONG. ** SALVAGE AND REINSTALL EXISTING TILES BEFORE PURCHASING NEW TILES**
B	**ACT TYPE B [RESTROOMS, CUSTODIAL, STORAGE ROOMS ETC.]** WET FORMED, MINERAL FIBER, ASTM E 1264, TYPE III, FORM 2, PATTERN CD OR CE, 24 BY 24 BY 5/8 INCH, SQUARE LAY-IN, 15/16 INCH GRID, WITH NRC OF 0.50-0.60, CAC OF 21-40, CLASS A, HUMIDITY SAG RESISTANT, LIGHT REFLECTANCE OF 0.80 MINIMUM AND <1 POUND/SQ.FT.. FACTORY APPLIED LATEX PAINT, COLOR - WHITE, UNLESS OTHERWISE NOTED. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS SPECIFIED: • ITEM NO. 1728 FINE FISSURED (SQUARE LAY-IN); ARMSTRONG. • HHF157, HIGH HUMIDITY FINE FISSURED; CERTAINTEED. • ITEM NO. 2210, RADAR CLIMAPLUS; USG INTERIORS.
C	**ACT TYPE C [OFFICES, CORRIDORS, ETC.]** WET FORMED, MINERAL FIBER, ASTM E 1264, TYPE III, FORM 2, PATTERN CE, 24 BY 24 BY 5/8 - 3/4 INCH, SQUARE LAY-IN, 15/16 INCH GRID, WITH NRC OF 0.65-0.70, CAC OF 21 MINIMUM, HUMIDITY SAG RESISTANT, LIGHT REFLECTANCE OF 0.79 MINIMUM AND >.45 POUND/SQ.FT. FACTORY APPLIED VINYL LATEX PAINT, COLOR - WHITE,UNLESS OTHERWISE NOTED. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS SPECIFIED: • ITEM NO. 1713, SCHOOL ZONE FINE FISSURED (HIGH NRC/CAC); ARMSTRONG. • HHF-457 HNRC, FINE FISSURED (HIGH NRC); CERTAINTEED. • ITEM NO. 22421, RADAR EDUCATION CLIMAPLUS HIGH NRC; USG INTERIORS.
D	**ACT TYPE D [STUDENT GATHERING]** BLACK: WET FORMED MINERAL FIBER, ASTM E 1264, TYPE IV, FORM 2, PATTERN E, 24- BY 48- BY 3/4-INCH (MINIMUM) THICK, SQUARE LAY-IN FOR 15/16-INCH GRID, WITH MINIMUM NRC OF 0.75, CAC OF 30, CLASS A, HUMIDITY- AND SAG-RESISTANT, ANTI-MOLD/MILDEW. ACOUSTICALLY TRANSPARENT MEMBRANE WITH FACTORY APPLIED ACRYLIC LATEX PAINT; COLOR: BLACK. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS SPECIFIED. • 1319 BACKSTAGE NOIR; ARMSTRONG. • 1530-AST-5 VERSATONE; CERTAINTEED. • 7055G, PREMIER HI-LITE *CLIMAPLUS* KAPOK; USG INTERIORS
E	**ACT TYPE E [VESTIBULE]** BLACK: WET FORMED MINERAL FIBER, ASTM E 1264, TYPE IV, FORM 2, PATTERN E, 24- BY 24- BY 3/4-INCH (MINIMUM) THICK, SQUARE LAY-IN FOR 15/16-INCH GRID, WITH MINIMUM NRC OF 0.75, CAC OF 30, CLASS A, HUMIDITY- AND SAG-RESISTANT, ANTI-MOLD/MILDEW. ACOUSTICALLY TRANSPARENT MEMBRANE WITH FACTORY APPLIED ACRYLIC LATEX PAINT; COLOR: BLACK. PRODUCTS: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE ONE OF THE FOLLOWING PRODUCTS SPECIFIED. • 1318 BACKSTAGE NOIR; ARMSTRONG. • 1532-AST-5 VERSATONE; CERTAINTEED. • 7054G, PREMIER HI-LITE *CLIMAPLUS* KAPOK; USG INTERIORS

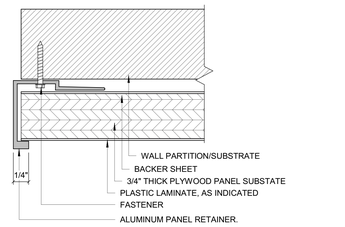
ALL REVEALS - VERTICAL & HORIZONTAL. VERIFY CONDITIONS IN FIELD AND INSTALL PER LOCATION AS INDICATED ON DRAWINGS & DETAILS



A PLASTIC LAMINATE PANELS & REVEAL DETAIL

- SCALE: 12" = 1'-0"
- HORIZONTAL/VERTICAL REVEAL (JOINED AT 45 DEGREE ANGLE)
- ALUMINUM PANEL RETAINER TO BE BLACK POWDERCOAT FINISH

ALL "END OF RUN"/PERIMETER CONDITIONS - VERTICAL & HORIZONTAL. VERIFY CONDITIONS IN FIELD AND INSTALL PER LOCATION AS INDICATED ON DRAWINGS & DETAILS



B PLASTIC LAMINATE PANELS & REVEAL DETAIL

- SCALE: 12" = 1'-0"
- OUTSIDE EDGE REVEAL
- ALUMINUM PANEL RETAINER TO BE BLACK POWDERCOAT FINISH

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · JENNIFER M. FULLER · 1115297 · REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

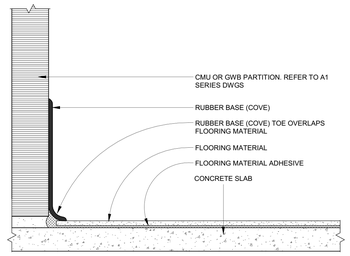
PROJECT MANAGER: RW
DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

LIST OF FINISHES

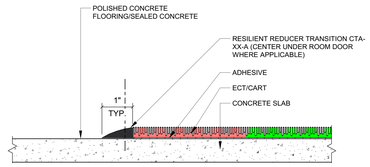
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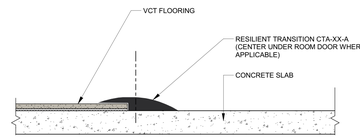
RB WALL BASE DETAIL

- SCALE: 6" = 1'-0"
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



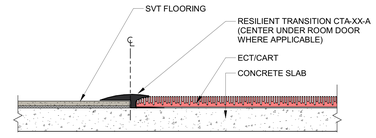
FLOOR TRANSITION DETAIL ECT/CART to CSC

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION



FLOOR TRANSITION DETAIL CSC to VCT FLOORING

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION

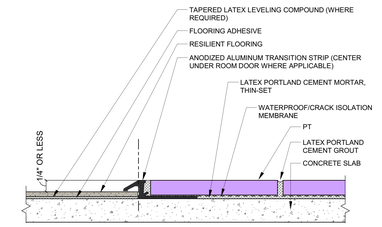


FLOOR TRANSITION DETAIL ECT/CART to SVT FLOORING

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
- REFER TO ADDITIONAL CART to RESILIENT FLOORING DETAIL FOR BELOW FOR MANUFACTURER SPECIFIC TRANSITIONS.

NOTE:

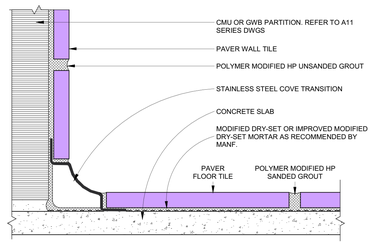
- UTILIZE 4" TAPER OF UNDERLAYMENT LATEX COMPOUND AS REQUIRED TO ACHIEVE MATERIAL HEIGHT TRANSITION NO GREATER THAN 1/4".



FLOOR TRANSITION DETAIL PT to RESILIENT FLOORING

- SCALE: NTS
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION

- PROVIDE CRACK ISOLATION MEMBRANE AT CONCRETE SLABS ON GRADE.
- PROVIDE WATERPROOF/CRACK ISOLATION AT ELEVATED CONCRETE SLABS.
- LATEX-PORTLAND CEMENT MORTAR, THIN SET MODIFIED DRY-SET MORTAR OR IMPROVED MODIFIED DRY-SET MORTAR AS RECOMMENDED BY MANUFACTURER



PFT/PWT COVE TRANSITION DETAIL

- SCALE: 6" = 1'-0"
- REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION
- THIN SET TILE INSTALLATION PER PROJECT MANUAL SPECIFICATIONS

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KEY PLAN

CONSTRUCTION DOCUMENTS

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JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

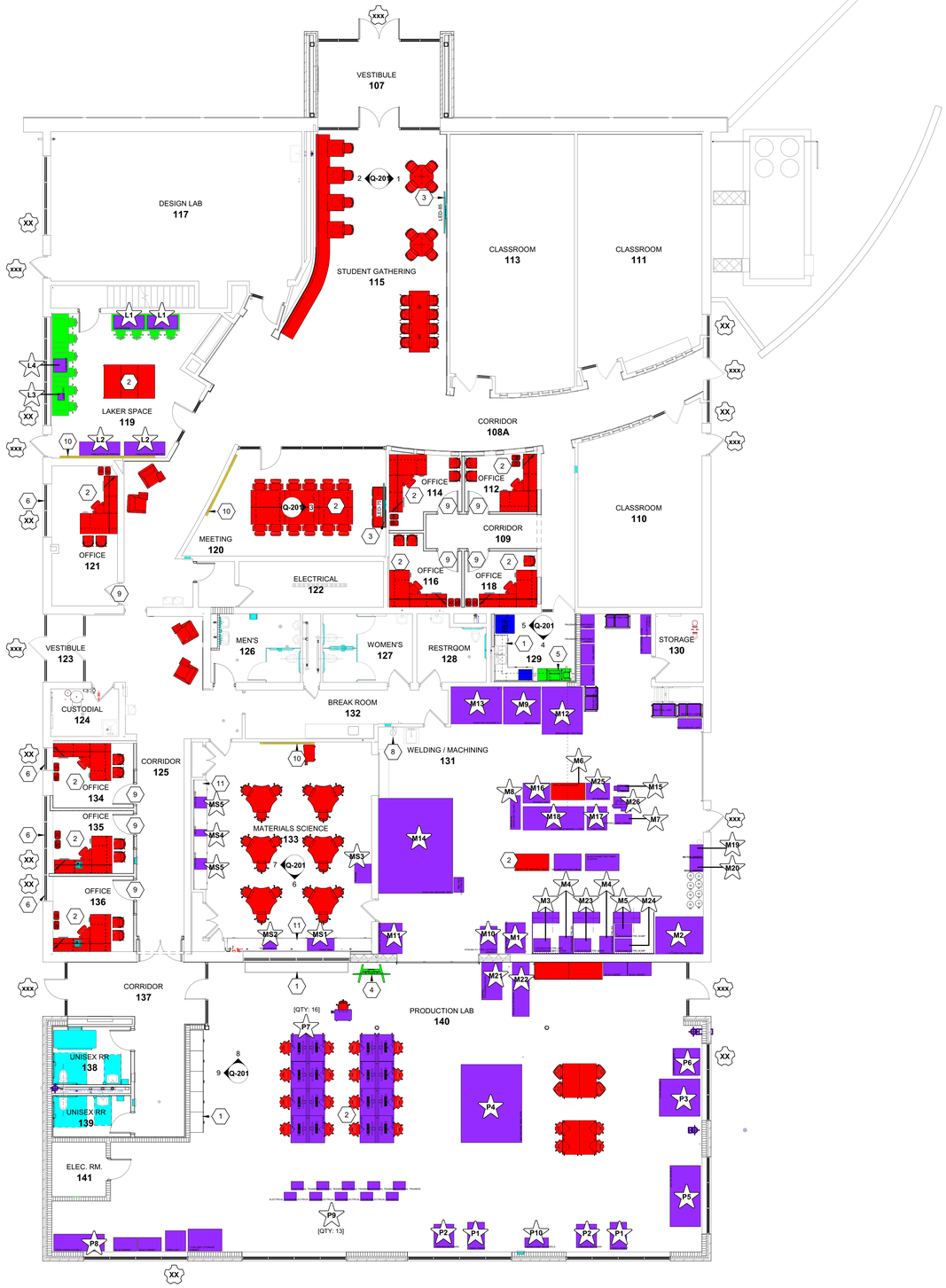
PROJECT MANAGER: RW
DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

FLOOR TRANSITION DETAILS

IF-602

Autodesk Docs://WSU LC - Workforce Development Project/2025_EQPT_224102.00.rvt
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1 OVERALL FIRST FLOOR EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - MASTER LIST

ROOM NO.	ROOM NAME	AREA (SF)
107	VESTIBULE	230 SF
108A	CORRIDOR	744 SF
108B	CORRIDOR	274 SF
109	CORRIDOR	213 SF
110	CLASSROOM	496 SF
111	CLASSROOM	612 SF
112	OFFICE	93 SF
113	CLASSROOM	677 SF
114	OFFICE	104 SF
115	STUDENT GATHERING	751 SF
116	OFFICE	102 SF
117	DESIGN LAB	843 SF
118	OFFICE	88 SF
119	LAKER SPACE	439 SF
120	MEETING	405 SF
121	OFFICE	197 SF
122	ELECTRICAL	184 SF
123	VESTIBULE	57 SF
124	CUSTODIAL	70 SF
125	CORRIDOR	510 SF
126	MEN'S	126 SF
127	WOMEN'S	133 SF
128	RESTROOM	92 SF
129	BREAK/COPY	120 SF
130	STORAGE	70 SF
131	WELDING / MACHINING	1930 SF
132	BREAK ROOM	190 SF
133	MATERIALS SCIENCE	812 SF
134	OFFICE	112 SF
135	OFFICE	109 SF
136	OFFICE	131 SF
137	CORRIDOR	292 SF
138	UNISEX RR	97 SF
139	UNISEX RR	69 SF
140	PRODUCTION LAB	3417 SF
141	ELEC. RM.	64 SF

EQUIPMENT GENERAL NOTES

A. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFO.
B. ALL COUNTERTOPS TO HAVE CONTINUOUS 4" HIGH BACKSPLASHES AND ENDSPLASHES U.N.O.
C. HIDDEN LINES (- - - -) INDICATE ITEMS BY OWNER, WHICH ARE NOT INCLUDED IN CONSTRUCTION CONTRACTS. DASHED LINES (- - - -) INDICATE OVERHEAD ITEMS (INCLUDED IN CONSTRUCTION CONTRACTS).
D. (TB) INDICATES 4' HIGH TACK BOARD LENGTH AS INDICATED. REFER TO CASEWORK ELEVATIONS.
E. (MB) INDICATES 4' HIGH MARKER BOARD LENGTH AS INDICATED. REFER TO CASEWORK ELEVATIONS. (SL) INDICATES STAFF LINES TO BE IMPLEMENTED ONTO MB SURFACE.
F. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS & WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
G. ALL CASEWORK DOORS & DRAWERS SHALL BE LOCKABLE, U.N.O.
H. ALL EXPOSED ENDS & BACKS OF CASEWORK SHALL BE FINISHED.
I. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMB./ELEC./MECH. LINES.
J. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS.
K. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF U.N.O.
L. REFER TO ENLARGED RESTROOM PLANS FOR EQUIPMENT AND DETAILS OF SPACES.
M. (TS) INDICATES 2" HIGH TACKSTRIP. LENGTH AND MOUNTING HEIGHT AS INDICATED ON PLAN, CASEWORK ELEVATIONS, OR INTERIOR ELEVS.
N. (TWS) INDICATES TACKABLE WALL SURFACE. REFER TO CASEWORK ELEVATIONS AND INTERIOR ELEVATIONS FOR ADDITIONAL INFO.
O. REFER TO LIST OF FINISHES & CASEWORK ELEVATIONS FOR FINISH/COLOR SELECTIONS FOR ALL ITEMS.

(A-#) INDICATES SCHEDULED RESIDENTIAL EQUIPMENT. REFER TO RESIDENTIAL APPLIANCE SCHEDULE ON IQ-601.

(XXX) INDICATES EXTERIOR GRADE APPLIED VINYL DOOR LETTER SIGNAGE (RSXXX). DOORS TO BE LABELED & LETTERED PER LOCAL JURISDICTIONS UTILIZING THE ALPHA, BRAVO, CHARLIE, DELTA BUILDING ORIENTATION. REFER TO IQ-602 AND PROJECT MANUAL.

(XX) INDICATES EXTERIOR GRADE APPLIED VINYL WINDOW ROOM SIGNAGE (RSXX). IMPLEMENT ACTUAL OWNER ROOM NUMBERS ON THESE VINYL DECALS. REFER TO IQ-602 AND PROJECT MANUAL.

EQUIPMENT LEGEND

COLOR	PROJECT REQUIREMENTS & DESIGNATIONS
	OWNER FURNISHED / OWNER INSTALLED
	OWNER FURNISHED / CONTRACTOR REINSTALLED
	CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
	RESIDENTIAL APPLIANCES REFER TO RESIDENTIAL EQUIPMENT SCHEDULE ON IQ-601.
	VISUAL DISPLAY SURFACES CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
	LOCKERS CONTRACTOR FURNISHED / CONTRACTOR INSTALLED
	FF&E/LOOSE FURNISHINGS OWNER FURNISHED / OWNER INSTALLED
	INDICATES ALTERNATE. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.

CASEWORK LEGEND

XX-XXX — CABINET TYPE (REF. TO CASEWORK SCHEDULE)
00x00x00 — WIDTH (IN.) x HEIGHT (IN.) x DEPTH (IN.)

KS3030
- CABINET TYPE
- CABINET WIDTH (IN.)
- CABINET HEIGHT (IN.)

EQUIPMENT NOTES

(1)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

1. PLASTIC LAMINATE FACED ARCHITECTURAL CABINETRY (DIV. 06 CUSTOM CASEWORK). REFER TO CASEWORK ELEVS. & DETAILS, CASEWORK SCHEDULE, PROJECT MANUAL AND IC-601.
2. LOOSE FURNISHINGS BY OWNER. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
3. LED MONITOR, SIZE AS INDICATED. REFER TO CASEWORK/INTERIOR ELEVATIONS & ELEC./TECH. DWGS.
4. MOBILE LED MONITOR BY OWNER. REFER TO ELEC./TECH. DWGS.
5. COPIER/PRINTER
6. MOTORIZED ROLLER SHADES. REFER TO PROJECT MANUAL FOR ADDITIONAL INFORMATION.
7. NOT USED.
8. SAFETY SHOWER & EMERGENCY EYEWASH. REFER TO PLUMBING DRAWINGS AND PROJECT MANUAL FOR ADDITIONAL INFO.
9. COAT HOOK PROVIDED ON REAR OF DOOR. REFER TO PROJECT MANUAL (DIV. 10) AND MOUNT CENTERED HORIZONTALLY ON WIDTH OF DOOR AT HEIGHT INDICATED.
10. EXISTING EQUIPMENT TO REMAIN.
11. RELOCATE EXISTING CASEWORK FROM ROOM 115 AND PLACE AS SHOWN ON CASEWORK ELEVATIONS. PROVIDE NEW APRONS, FILLERS, AND BUTCHER BLOCK COUNTERTOPS AS SHOWN.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
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A
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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO — JENNIFER M. FULLER — 1115297 — REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

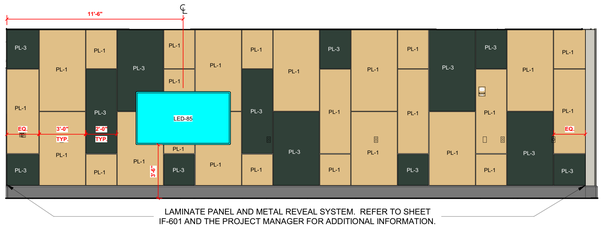
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DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

OVERALL FIRST FLOOR EQUIPMENT PLAN

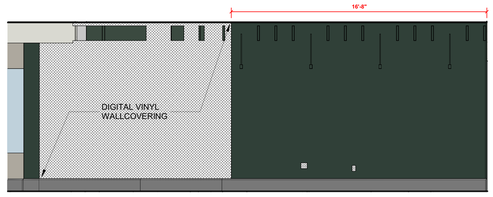
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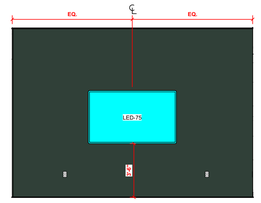
1 RM. 115 - STUDENT GATHERING

SCALE: 1/4" = 1'-0"



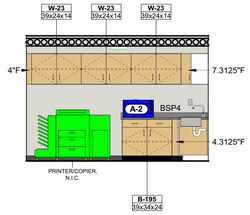
2 RM. 115 - STUDENT GATHERING

SCALE: 1/4" = 1'-0"



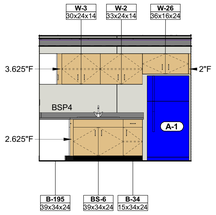
3 RM. 120 - CONFERENCE ROOM

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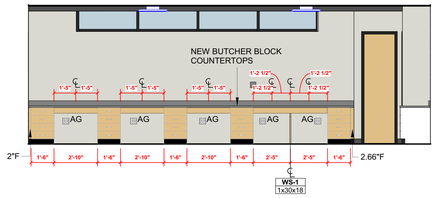
4 RM. 129 - BREAK/COPY

SCALE: 1/4" = 1'-0"



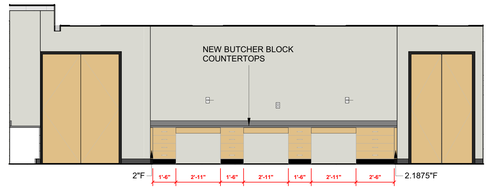
5 RM. 129 - BREAK/COPY

SCALE: 1/4" = 1'-0"



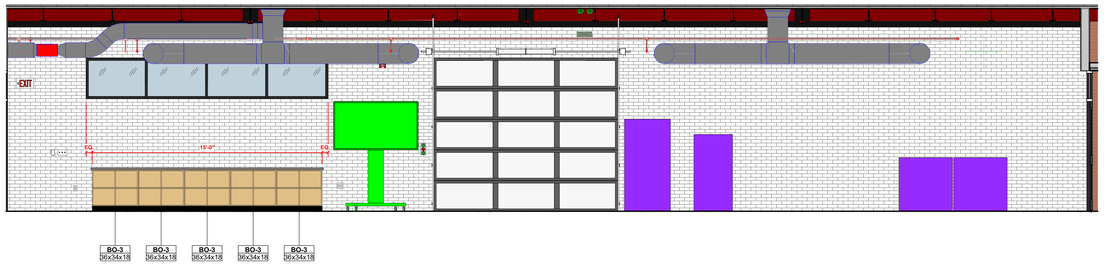
6 RM. 133 - MATERIALS SCIENCE

SCALE: 1/4" = 1'-0"



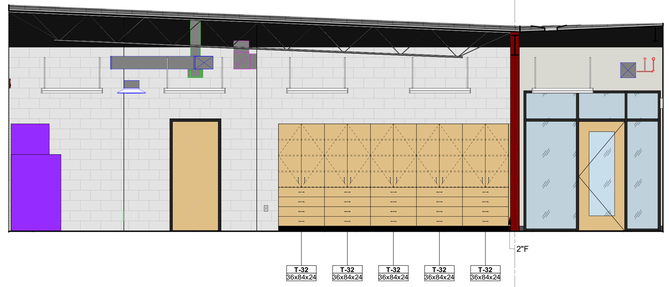
7 RM. 133 - MATERIALS SCIENCE

SCALE: 1/4" = 1'-0"



8 RM. 140 - PRODUCTION LAB

SCALE: 1/4" = 1'-0"



9 RM. 140 - PRODUCTION LAB

SCALE: 1/4" = 1'-0"

CASEWORK GENERAL NOTES

A. ALL CASEWORK TO BE EDUCATIONAL CASEWORK UNLESS OTHERWISE NOTED ON EQUIPMENT PLANS OR CASEWORK ELEVATIONS. REFER TO CASEWORK ELEVATIONS.
B. REFER TO DRAWING SHEET IQ-201 FOR TYPICAL CASEWORK DETAILS.
C. VERIFY EXACT SIZE OF CASEWORK AND VISUAL DISPLAY BOARDS IN FIELD PRIOR TO FABRICATION. IDENTIFY ALL MODIFIED DIMENSIONS TO MEET FIELD CONDITIONS ON SHOP DRAWINGS FOR APPROVAL.
D. ALL COUNTERTOPS WHERE SINKS ARE LOCATED TO HAVE 4" BACKSPLASHES AND HIGH BACKSPLASHES AND ENDSPLASHES UNLESS NOTED OTHERWISE.
E. PROVIDE FILLER STRIPS BETWEEN CASEWORK UNITS AND WALL OR BETWEEN ANY UNIT AS REQUIRED. EXTEND COUNTER TO FACE OF WALL OR ADJACENT TALL CABINET.
F. ALL CASEWORK DOORS AND DRAWERS SHALL BE LOCKABLE UNLESS OTHERWISE NOTED.
G. ALL WALL CABINETS 24" DEEP OR GREATER SHALL BE CONSTRUCTED W/ 3/4" THICK BACK AND 1" THICK SHELVES.
H. ALL BASE CABINETS AND FILING CABINETS SHALL BE SET BACK 3/4-1" FROM EDGE OF COUNTERTOP OR WORKSURFACE UNLESS OTHERWISE NOTED ON DRAWINGS OR A TALL CABINET IS ADJACENT. REFER TO CASEWORK ELEVATIONS FOR DETAILS.
I. ALL TALL CABINETS WITH DOORS ADJACENT TO COUNTERTOP OR WORKSURFACE SHALL HAVE A MINIMUM 1" FILLER TO FACILITATE DOOR SWING.
J. TALL CABINETS SHOULD BE SAME DEPTH AS ADJACENT WORKSURFACE OR COUNTERTOP AS WELL AS ADJACENT BASE CABINETS UNLESS OTHERWISE NOTED.
K. WHERE CASEWORK IS LOCATED WALL TO WALL, FIELD VERIFY SIZE AND PROVIDE FILLERS AS REQ'D TO CLOSE OFF ALL SIDES AND TOP.
L. ALL EXPOSED ENDS AND BACKS OF CASEWORK SHALL BE FINISHED. EXPOSED SIDES OF CABINETS WITH DEPTH LESS THAN COUNTERTOP OR WORKSURFACES SHALL HAVE EXTENDED SIDES TO ELIMINATE ANY GAPS BETWEEN CABINETS AND WALLS. FILLER STRIPS ARE NOT ACCEPTABLE.
M. CASEWORK INSTALLER SHALL CUT CASEWORK AS REQUIRED FOR PLUMBING/ELECTRICAL LINES AND CASEWORK INSTALLED EQUIPMENT. CASEWORK INSTALLER SHALL CAULK BETWEEN COUNTERS, BACKSPLASHES, AND WALLS.
N. ALL WALL-MOUNTED CASEWORK SHALL BE MOUNTED WITH THE TOP AT 7'-0" AFF UNLESS OTHERWISE NOTED.
O. REFER TO SHEET IF-601 FOR FINISH AND MATERIAL SELECTIONS.
P.

A-# INDICATES SCHEDULED RESIDENTIAL EQUIPMENT. REFER TO RESIDENTIAL EQUIPMENT SCHEDULE ON IC-601.

P-X INDICATES PAINT COLOR SELECTION FOR WALL, SOFFIT, ARCH. ITEM, ETC. REFER TO I.F. SERIES DRAWINGS FOR ADDITIONAL INFORMATION.

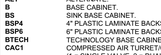
- OWNER PROVIDED / OWNER INSTALLED (OP / OI)
- OWNER PROVIDED / CONTRACTOR INSTALLED (OP / CI)
- CONTRACTOR PROVIDED / CONTRACTOR INSTALLED (CP / CI)
- RESIDENTIAL APPLIANCES — REFER TO RESIDENTIAL EQUIPMENT SCHEDULE ON IQ-601.
- VISUAL DISPLAY SURFACES- CP / CI
- LOCKERS - CP / CI
- FF&E/LOOSE FURNISHINGS- (OP / OI)
- INDICATES ALTERNATE. REFER TO PROJECT MANUAL.
- EDUCATIONAL CASEWORK/PLAM-FACED ARCH. CABINETRY — REFER TO EQUIPMENT PLANS OR PROJECT MANUAL SPEC SECTION DESIGNATION

TYP. CABINET GRAPHIC DESIGNATION

FOR EACH CABINET SHOWN, PROVIDE A QUANTITY OF EACH COMPONENT DEPICTED. REFER TO CASEWORK SCHEDULE FOR ADDITIONAL INFORMATION



CASEWORK LEGEND



ABBREVIATIONS

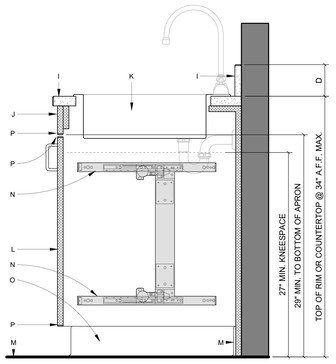
(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

AG	2" DIAM. ACCESS GROMMET.
ALT	ALTERNATE.
B	BASE CABINET.
BS	SINK BASE CABINET.
BSP4	4" PLASTIC LAMINATE BACKSPLASH.
BSP6	6" PLASTIC LAMINATE BACKSPLASH.
BTECH	TECHNOLOGY BASE CABINET.
CAC1	COMPRESSED AIR TURRET/COCK. (1 = SINGLE VALVE, 2 = DUAL VALVE)
CH	CASEWORK CHASE, SIZE AS INDICATED.
CHBD__	COAT/SMOCK HOOKS & BOARD. REFER TO A7.00E. (REFERS TO NUMBER OF HOOKS PROVIDED.)
CRSPC	1" THICK CHEMICAL RESISTANT SOLID PHENOLIC COUNTERTOP.
D	DRAWER BASE CABINET.
DF	DRAWER FILE BASE CABINET.
DRP1248	SCIENCE DRYING RACK/PEGBOARD (SIZE AS INDICATED (1248 = 12"H x 48"L)
DM	DEMONSTRATION MIRROR (TO FIT WITHIN THE THREADED INSERTS FOR THE DEMO RODS & CROSSBAR ASSEMBLY)
ERC	1" THICK EPOXY RESIN COUNTERTOP.
ERBSP4 or 6	4" or 6" EPOXY RESIN BACKSPLASH.
F	VERTICAL AND/OR HORIZONTAL FILLER PIECE. FIELD VERIFY.
FE	FINISHED END.
FEP	1-1/4" THICK FULL PLASTIC LAMINATE END PANEL WITH 3MM PVC EDGE.
GC1	GAS TURRET/COCK. (1 = SINGLE VALVE, 2 = DUAL VALVE)
KBT	KEYBOARD TRAY.
KS	KNEE SPACE.
L-#	MEDIA CENTER/LIBRARY CASEWORK, STACKS. REFER TO CASEWORK SCHEDULE
LED	LED MONITOR (SIZE AS INDICATED, LED-70 IS 70" LED MONITOR).
MB	MARKERBOARD.
MU-#	MUSIC CASEWORK/EQUIPMENT. REFER TO CASEWORK SCHEDULE
NIC	NOT IN CONTRACT.
PBSP4 or 6	4" or 6" CHEMICAL RESISTANT SOLID PHENOLIC BACKSPLASH
P/D	POWER/DATA RECEPTACLE. REFER TO ELECTRICAL/TECHNOLOGY DRAWINGS.
PD	PENCIL DRAWER.
PSS_	PENCIL SHARPENER SUPPORT.
RAP	REMOVABLE ACCESS PANEL
RS_	ROOM SIGNAGE.
S-#	SCIENCE CASEWORK/EQUIPMENT. REFER TO CASEWORK SCHEDULE.
SD	SOAP DISPENSER.
SMBBCTOP	1-3/4" SOLID MAPLE BUTCHERBLOCK TOP.
SMBBBSP	SOLID MAPLE BUTCHERBLOCK BACKSPLASH.
SR	STEREO RACK CABINET.
SS	SOLID SURFACE TOP AND EDGE.
SSBSP	SOLID SURFACE BACKSPLASH.
SSEE	SAFETY SHOWER/EMERGENCY EYEWASH.
STIP	WALL MOUNTED SHORT-THROW INTERACTIVE PROJECTOR.
T	TALL CABINET.
TH_	TOWEL HOOKS & BOARD. REFER TO ARCH.
TO	TALL OPEN CABINET.
TB	TACKBOARD.
TD	PAPER TOWEL DISPENSER.
TS	TACKSTRIP.
TW	TALL WARDROBE CABINET.
TWS	TACKABLE WALL SURFACE.
UDRC	UPRIGHT DEMO RODS AND CROSSBAR ASSEMBLY WITH THREADED INSERTS.
UHBS_	UNIFORM STORAGE HANGING BRACKET & SHELF (LENGTH AS INDICATED _) REFER TO DTL. A7.00D.
W	WALL CABINET.
WDF	WARDROBE FILE CABINET.
WDS	WARDROBE STORAGE CABINET/STUDENT CUBBIE.
WDTECH	WARDROBE TECHNOLOGY CABINET.
WO	WALL OPEN CABINET.
WS	1" THICK WORKSURFACE SUPPORT.
WTECH	WALL TECHNOLOGY CABINET.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.



ADA ACCESSIBLE SINK GENERAL NOTES AND KEYNOTES

* DEPTH OF UNIT MAY VARY. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION.

* IF DEPTH OF SINK BASE CABINET IS 30", OR GREATER THAN 24", PROVIDE FALSE CHASE PANEL AT REAR OF CABINET SO THAT ADA ACCESSIBLE APPROACH IS NOT GREATER THAT 24"D AND FORWARD APPROACH "ALCOVE" IS ADA COMPLIANT.

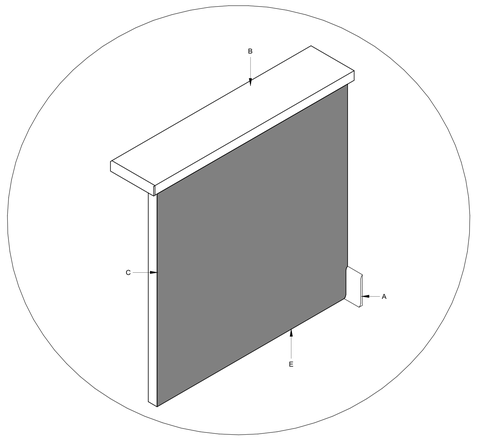
A. COORDINATE LOCATION AND SIZE OF SINK TO AVOID CONFLICT WITH CABINET. MAXIMUM SINK DEPTH OF 6-1/2". HOWEVER ACCESSIBLE LAVS. AND SINKS CANNOT ENCROACH INTO THE REQUIRED KNEE AND TOE CLEARANCES; HOWEVER THE DIP OF THE OVERFLOW SHALL NOT BE CONSIDERED IN DETERMINING KNEE AND TOE CLEARANCES.
B. PROVIDE WOOD BLOCKING AS REQUIRED.
C. REFER TO CASEWORK ELEVATIONS FOR WIDTH OF UNIT (30" MIN. INSIDE CLEARANCE REQUIRED).
D. TOP OF BACKSPLASH TO ALIGN WITH TOP OF ADJACENT BACKSPLASH. PROVIDE 4"H BACKSPLASH IF NO ADJACENT BACKSPLASH.
E. 24" NOMINAL DEPTH, UNLESS NOTED OTHERWISE, OR ALIGN FACE OF APPROACH WITH FACE OF CABINET BEYOND.
F. PLUMBING CONTRACTOR TO PROVIDE INSULATED PIPES.
G. OFFSET GRID STRAINER, DRAIN, AND PIPING TOWARDS REAR OF SINK TO AVOID POTENTIAL CONFLICT WITH ACCESSIBLE CABINET.
H. THE 34" DIMENSION IS TO THE HIGHEST SURFACE, THE COUNTERTOP OR THE RIM OF THE PLUMBING FIXTURE.
I. PLASTIC LAMINATE COUNTERTOP AND BACKSPLASH WITH 3MM VINYL PVC EDGE AT ALL EXPOSED EDGES, U.N.O.
J. PLASTIC LAMINATE APRON FRONT/BLANK DRAWER FRONT.
K. SINK. REFER TO PLUMBING DRAWINGS.
L. PLASTIC LAMINATE POCKET DOORS.
M. FINISH FLOOR MATERIAL AND WALL BASE. REFER TO FINISH PLANS, LIST OF FINISHES, AND PROJECT MANUAL.
N. POCKET DOOR HARDWARE BY BLUM (B270E-5500-04R, RIGHT HAND/B270E-5500-05L, LEFT HAND).
O. WALL BASE BEYOND.
P. 3MM VINYL PVC EDGE AT ALL EXPOSED EDGES, TYP.

ADA ACCESSIBLE SINK (ADULT)

- NOT TO SCALE
- APPLICABLE FOR 6th GRADE THROUGH ADULT
- REFER TO EQUIPMENT PLANS AND CASEWORK ELEVATIONS FOR LOCATIONS

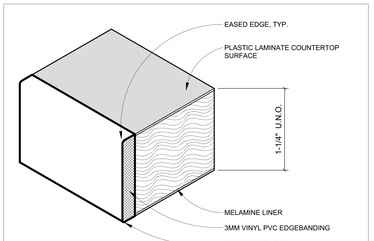
FINISHED END PANEL GENERAL NOTES & KEYNOTES

A. RESILIENT BASE TO BE CUT AT SUPPORTS. BASE DOES NOT WRAP FINISHED END PANELS.
B. 1-1/4" THICK PLASTIC LAMINATE TOP WITH 3MM PVC EDGE. REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFORMATION.
C. 1-1/4" THICK FULLY FINISHED PLASTIC LAMINATE PARTICLE BOARD END PANEL SUPPORT WITH 3MM PVC EDGE ON EXPOSED FRONT EDGE. REFER TO CASEWORK SCHEDULE AND ELEVATIONS FOR ADDITIONAL INFORMATION INCLUDING DEPTH AND HEIGHT OF FINISHED END PANEL.
D. SECURE FINISHED END PANEL TO COUNTERTOP WITH STAINLESS STEEL "L" BRACKETS OR MANUFACTURER RECOMMENDED STANDARD CONCEALED FASTENERS.
E. AT CONCEALED SURFACE WHERE FINISHED END PANEL MEETS HARD SURFACE FLOOR, APPLY TWO COATS OF SEALER OR PRIMER AS RECOMMENDED BY CASEWORK AND JOINT-SEALANT MANUFACTURER. AFTER INSTALLATION OF END PANEL, SEAL JUNCTURE OF SUPPORTS AND FLOOR WITH CLEAR MILDEW-RESISTANT SILICONE, PERMANENTLY ELASTIC SEALING COMPOUND, AS RECOMMENDED BY CASEWORK AND JOINT-SEALANT MANUFACTURER. (THIS CONDITION OCCURS AT 1-1/4" THICK FINISHED END PANELS (FEP-X, SEE CASEWORK ELEVATIONS AND SCHEDULE.)



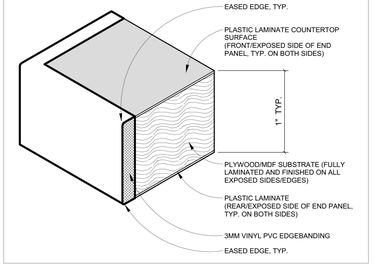
FINISHED END PANEL SUPPORT (FEP)

- SCALE: NOT TO SCALE UNLESS OTHERWISE INDICATED
- PROVIDE UNDER EDUCATIONAL CASEWORK, DIV. 12, WITHIN PROJECT MANUAL.
- REFER TO CASEWORK ELEVATIONS FOR ADDITIONAL INFO.



3MM PVC CTOP EDGE - TYP.

- NOT TO SCALE
- TYPICAL AT ALL COUNTERTOP EDGES UNLESS OTHERWISE NOTED



PLASTIC LAMINATE END PANEL

- NOT TO SCALE
- REFER TO EQUIPMENT PLANS AND CASEWORK ELEVATIONS FOR LOCATIONS

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

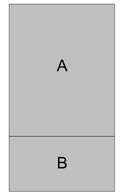
7600 State Route 703
Celina, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM
128 WEST MARKET STREET CELINA, OH 45822



KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO JENNIFER M. FULLER 1115297 REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

PROJECT MANAGER: RW
DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

CASEWORK ELEVATIONS & DETAILS

IQ-201

Autodesk Docs://WSU-LC - Workforce Development Project/2025_EQPT_224102.00.rvt
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EQUIPMENT SCHEDULE

RM. 104 - PRODUCTION LAB

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	ADDITIONAL CONNECTIONS	ITEM PHOTO
P1	**FANUC ROBOT** • MODEL NO. LR MATE 200 ID • SERIAL NO. E15531806	200-230V 1 PHASE 50/60 HZ	PER MANF. GUIDELINES, V.I.F.	
P2	**YASKAWA MOTOMAN** • MODEL NO. MH0000J-A00 • SERIAL NO. S41Q86-1-1	120/240V	PER MANF. GUIDELINES, V.I.F.	
P3	**YASKAWA MOTOMAN HC10** • MODEL NO. E304169 • SERIAL NO. WJ1842	120/240V 15A 60HZ	PER MANF. GUIDELINES, V.I.F.	
P4	**SMC MACHINE SIMULATOR** • MODEL NO. FMS 200 • SERIAL NO. 2008 0234	120/240V	AIR & NETWORK CABLE	
P5	**YASKAWA METHOD TOOL LIMITED** • MODEL NO. HC10DT	480V, 120/240V	COMPRESSED AIR & ETHERNET	
P6	**PLANNED ABB ROBOT** • MODEL NO. • SERIAL NO.		PER MANF. GUIDELINES, V.I.F.	
P7	**HP LAPTOP**	120/240V AIR		
P8	**TITAN CONVEYOR BELT** • MODEL NO. • SERIAL NO. 201428	120/240V	PER MANF. GUIDELINES, V.I.F.	
P9	**ELECTRICAL TRAINERS**	480V		
P10	**SERVI CART ON WHEELS**	120/240V	PER MANF. GUIDELINES, V.I.F.	

RM. 106 - MACHINING/WELDING LAB

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION	ITEM PHOTO
M1	**YASKAWA WELDING ROBOT** • MODEL NO. MH5 • SERIAL NO. S41S51-2-5-O	480V 50/60HZ 3 PHASE	COMPRESSED AIR, VENTILATION/ EXHAUST SYSTEM	
M2	**PLASMACAM PLASMA TABLE** • MODEL NO. DCH2 https://www.plasmacam.com/archive4/accessories	480V, 120/240V 115/230 VAC 50/60HZ 10A	PER MANF. GUIDELINES, V.I.F.	
M3	**CHICAGO ELECTRIC 240V INVERTER PLASMA CUTTER** • ITEM 60767 • SERIAL NO. 1614-36537-0175	240V 50/60HZ 25A	PER MANF. GUIDELINES, V.I.F.	
M4	**LINCOLN ELECTRIC POWER MIG 256 WELDER** • ITEM 62486	230V 60HZ	PER MANF. GUIDELINES, V.I.F.	
M5	**LINCOLN ELECTRIC POWER MIG 350MP** • K2403-2	230V 60HZ 1 PHASE	PER MANF. GUIDELINES, V.I.F.	
M6	**CENTRAL MACHINERY DRILL PRESS STATION** • ITEM 60238 • SERIAL NO. 366851530	120VAC 2.4A		
M7	**ROCKWELL DRILL PRESS** • SERIES NO. 15-655 • SERIAL NO. 1784381	115/230V 60HZ 1/2 HP 1 PHASE		
M8	**CENTRAL MACHINARY BANDSAW** • ITEM 97009	110/220V 60HZ 1 HP 16A		
M9	**BRIDGEPORT PRECISION MACHINE VISE** • MODEL NO. HB65 • SERIAL NO. D675-016485	460V 60HZ		
M10	**NTSUNG FU** • MODEL NO. CT-457 • SERIAL NO. 5336	115V 60HZ 1 PHASE 1/2 HP	PER MANF. GUIDELINES, V.I.F.	
M11	**HARIG PRODUCTS GRINDER** • MODEL NO. CT-457 • SERIAL NO. 5336	480V 60HZ 3 PHASE 1.4A		
M12	**BRIDGEPORT TEXTRON** • SERIAL NO. 92011-2	480V 3 PHASE 60 HZ 15A		
M13	**HAAS CNC MACHINE** • MODEL NO. TL1 • SERIAL NO. 3103506 https://www.haascnc.com/owners/pre-install-guide/Pre-install-Guide-Template-Lathe/TL-1.html	480V 1 PHASE 60 HZ 13A	PER MANF. GUIDELINES, V.I.F.	
M14	**HAAS - CNC MACHINE** • MODEL NO. TM-1P • SERIAL NO. 1125031	480V 3 PHASE 60 HZ 13A	PER MANF. GUIDELINES, V.I.F.	
M15	**CARVER LABORATORY PRESS** • MODEL NO. C • SERIAL NO. 29000-494			

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION	ITEM PHOTO
M16	**RIGGING CART** • REQUIRES A HANGING ANCHOR ON A CEILING HOIST MOUNTED TO STRUCTURE			
M17	**DAKE PRESS** • MODEL NO. 25H • SERIAL NO. 176375			
M18	**SOUTHBEND - NORDIC 15 MANUAL LATHE**	480V		
M19	**WILTON GRINDER** • MODEL NO. 157 • SERIAL NO. 1-80	115V 4.4A 3/4 HP 60HZ		
M20	**SIOUX GRINDER** • MODEL NO. 2081 • SERIAL NO.	115/230V 8.8/4.4A 1 PHASE 1 HP 60HZ		
M21	**PARKER H-PAK PNUEMATICS TRAINER** • MODEL NO. H1B2.7T10P0X13909/13 • SERIAL NO. L02G04	120/240V	MAX PRESSURE: 580 PSI PUMP FLOW: 2.7 GPM	
M22	**HYDROLICS STATION**	120/240V	NEEDS COMPRESSED AIR	
M23	**LINCOLN ELECTRIC POWER MIG 360MP** • MODEL NO. K4467-1 • SERIAL NO. U1240902238	208/230V 1 PHASE 50/60HZ	PER MANF. GUIDELINES, V.I.F.	
M24	**LINCOLN ELECTRIC POWER MIG 262MP** • MODEL NO. K5376-1	208/230V 60HZ	PER MANF. GUIDELINES, V.I.F.	
M25	**JET BANDSAW** • MODEL NO. J-8201K • SERIAL NO. 11081521	115/230V 1 PHASE		
M26	**DRILL STATION**	120/240V		

RM. 114 - LAKER SPACE

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	ADDITIONAL CONNECTIONS	ITEM PHOTO
L1	**GLOWFORGE PRO LASER CUTTER** https://shop.glowforge.com/products/glowforge-pro?_gl=1*2n0ad5*_gcl_au*NzkzNzIxNDM5LjE3MzY1NDE2MjA.*_ga*OTc4NDY4MTM4LjE3MzY1NDE2MjE.*_ga_YM0X41VEGH*MTczNjU0MTYyMC4xLjEuMTczNjU0MTgyMi40MC4wLjA.	110/220V 50/60 HZ	PER MANF. GUIDELINES, V.I.F.	
L2	**FABLICATOR 3D PRINTER** • MODEL NO. MX SERIES	100/240V 50/60 HZ 5.5A	PER MANF. GUIDELINES, V.I.F.	
L3	**ANYCUBIC RESIN 3D PRINTER** • MODEL NO. PHOTON MONO X 6K	120W		
L4	**STRATASYS 3D PRINTER**		PER MANF. GUIDELINES, V.I.F.	

RM. 133 - MATERIAL SCIENCE

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	ADDITIONAL CONNECTIONS	ITEM PHOTO
MS1	**CEAST 9050 IMPACT PENDULUM** • SERIAL NO. 24406	115/230V 50/60 HZ 1 PHASE	PER MANF. GUIDELINES, V.I.F.	
MS2	**TECQUIPMENT SM1090 FATIGUE MACHINE** • MODEL NO. TQ161817-002	220/240V 50/60 HZ 5.5A	PER MANF. GUIDELINES, V.I.F.	
MS3	**INSTRON 3369** • MODEL NO. 3369U2060	100/120/220/240V 47/63 HZ 6.25A	PER MANF. GUIDELINES, V.I.F.	
MS4	**WILSON HARDNESS ROCKWELL 574** • SERIAL NO. R574-00-0878	AC100/240V 47/63 HZ 100VA	PER MANF. GUIDELINES, V.I.F.	
MS5	**SENTRO TECH MUFFLE BOX FURNACE** • SERIAL NO. 1092213 • MODEL NO. ST-1150C-7812	208V 25A	PER MANF. GUIDELINES, V.I.F.	

RESIDENTIAL APPLIANCE SCHEDULE

** RESIDENTIAL APPLIANCES ARE PROVIDED BY THE OWNER **

ITEM NO.	ITEM DESCRIPTION	ELEC. FIELD CONNECTION	MECH. FIELD CONNECTION
A-1	**REFRIGERATOR WITH ICE MAKER** • 21.1 CU.FT. (TOTAL CAPACITY) • 15.1 CU.FT. (FOOD CAPACITY) • 6.04 CU.FT. (FREEZER CAPACITY) • REVERSIBLE HINGES • ICEMAKER FACTORY INSTALLED - NO DISPENSER • ENERGY STAR QUALIFIED • 66.75"H x 32.875"W x 34"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN: GE #GIE21GSHSS	120V 60HZ 15 AMPS	PER MANUF. GUIDELINES 
A-2	**COUNTERTOP MICROWAVE** • 1.6 CU.FT. • GLASS TURNTABLE • ELECTRONIC TOUCH CONTROLS/DISPLAY WITH CLOCK • MULTIPLE POWER LEVELS, SENSOR COOKING CONTROLS • 21.75"W x 13"H X 17.75"D • COLOR: STAINLESS STEEL • BASIS OF DESIGN: GE #GCST16S1WSS	120V 1600W 14.5 AMPS	PER MANUF. GUIDELINES 

CASEWORK SCHEDULE

TYPE	#	SIZE W	SIZE D	SIZE H	DESCRIPTION
B	34	1'-3"	2'-0"	2'-10"	BASE UNIT WITH ONE DRAWER, ONE ADJUSTABLE SHELF AND ONE HINGED DOOR.
B	195	3'-3"	2'-0"	2'-10"	BASE UNIT WITH TWO DRAWERS, ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
BO	3	3'-0"	1'-6"	2'-10"	OPEN BASE UNIT WITH TWO FIXED SHELVES. PROVIDE ONE VERTICAL DIVIDER PER SHELF TO CREATE 4 CUBBIES
BS	6	3'-3"	2'-0"	2'-10"	ADA SINK BASE UNIT WITH TWO POCKET DOORS AND ONE BLANK DRAWER PANEL. REFER TO DETAIL ON IQ-201.
T	6	2'-6"	2'-0"	7'-0"	TALL UNIT WITH FIVE ADJUSTABLE SHELVES AND TWO HINGED DOORS.
T	32	3'-0"	2'-0"	7'-0"	TALL DOOR/DRAWER UNIT WITH A FIXED SHELF ABOVE DRAWERS. PROVIDE THREE ADJUSTABLE SHELVES AND TWO HINGED DOORS AT UPPER CABINET AND FOUR EQUAL DRAWERS BELOW WITH 5 INCH INSIDE DEPTH.
W	2	2'-9"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS.
W	3	2'-6"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	23	3'-3"	1'-2"	2'-0"	WALL UNIT WITH ONE ADJUSTABLE SHELF AND TWO HINGED DOORS
W	26	3'-0"	2'-0"	1'-4"	WALL UNIT WITH TWO HINGED DOORS.
WS	1	1"	1'-5 1/2"	2'-8"	WORKSURFACE SUPPORT, REFER TO DETAIL ON A7.00D & PROVIDE CORRECT SIZE PER EQUIPMENT PLANS & CASEWORK ELEVATIONS. RESILIENT WALL BASE DOES NOT WRAP WORKSURFACE SUPPORT.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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Celina, OH 45822

WRIGHT STATE UNIVERSITY

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM
128 WEST MARKET STREET CELINA, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
JENNIFER M. FULLER
1115297
REGISTERED ARCHITECT

JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

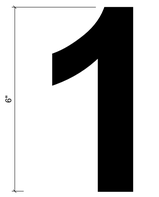
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DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

CASEWORK & EQUIPMENT SCHEDULES

IQ-601

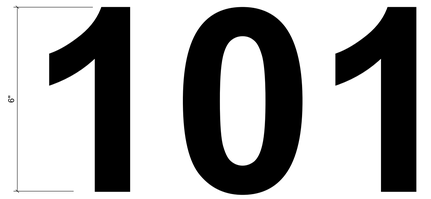
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- PER LOCAL JURISDICTIONS, ALL EXTERIOR DOORS TO BE NUMBERED.
- EXTERIOR GRADE APPLIED REFLECTIVE VINYL DECAL TO BE 6"H AND BE IMPLEMENTED ONTO DOORS AS INDICATED BELOW.
- REFLECTIVE VINYL TO BE WHITE.

ROOM SIGN TYPE **xxx**

SCALE: 6"=1'-0"



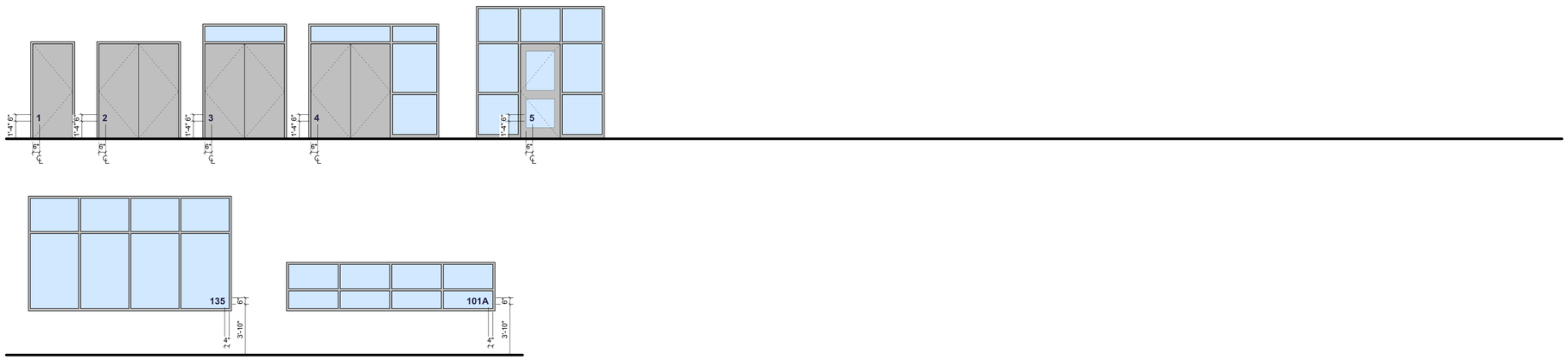
- OWNER PROVIDED ROOM NUMBER TO BE PROVIDED ON WINDOW/STOREFRONT AS INDICATED BELOW.
- EXTERIOR GRADE APPLIED REFLECTIVE VINYL DECAL TO BE 6"H AND BE IMPLEMENTED AS INDICATED BELOW.
- REFLECTIVE VINYL TO BE WHITE.

ROOM SIGN TYPE **XX**

SCALE: 6"=1'-0"

EXTERIOR ALUMINUM WINDOWS, DOORS AND STOREFRONT

- NOT ALL WINDOWS, DOORS & STOREFRONT ASSEMBLIES MAY BE SHOWN. REFER TO ARCH PLANS & APPLY EXTERIOR GRADE APPLIED VINYL ROOM NUMBERS OR DOOR LETTERS AS INDICATED.
- DOORS WITH GLASS SHALL HAVE LETTERS APPLIED TO THE INSIDE FACE OF THE GLASS IN ORIENTATION AS SHOWN BELOW, SO THAT THE LETTERS ARE LEGIBLE FROM THE EXTERIOR OF THE BUILDING.
- SOLID DOORS WITHOUT GLASS SHALL HAVE LETTERS APPLIED TO THE EXTERIOR SIDE OF THE DOOR IN ORIENTATION AS SHOWN BELOW.
- WINDOWS AND STOREFRONT WHERE ROOM NUMBERS ARE TO BE APPLIED SHALL BE APPLIED TO THE EXTERIOR FACE OF THE GLASS IN ORIENTATION AS SHOWN BELOW, SO THAT THE ROOM NUMBERS ARE LEGIBLE FROM THE EXTERIOR OF THE BUILDING AND UNOBSTRUCTED FROM THE INTEGRAL BLINDS WHEN CLOSED.
- ALL ROOM NUMBERS AND DOOR NUMBERS ARE TO BE 6"H.
- PROVIDE NUMBERED EXTERIOR DOORS AROUND ENTIRE PERIMETER OF BUILDING BASED ON LOCAL JURISDICTIONAL DIRECTION.
- PROVIDE ACTUAL OWNER ROOM NUMBERS ON ALL ROOM WINDOWS AS INDICATED. IF MULTIPLE WINDOWS ARE WITHIN A SPACE, LABEL BOTH WINDOWS IN ORIENTATION AS DEFINED BELOW.



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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
Celina, OH 45822

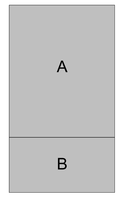
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KEY PLAN

CONSTRUCTION DOCUMENTS



JENNIFER M. FULLER, License # 1115297
Expiration Date 12/31/27

PROJECT MANAGER: RW
DRAWN BY: HL
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

EXTERIOR ROOM SIGN TYPES

IQ-602

Autodesk Docs://WSU-L.C. - Workforce Development Project/2025_EQPT_224102.00.rvt
10/2/2026 10:18:10 AM

MECHANICAL ABBREVIATIONS

A/C	AIR CONDITIONING
AC	AIR CURTAIN
ACU	AIR CONDITIONING UNIT
AD	DUCT/PLENUM ACCESS DOOR
AE	ACOUSTICAL ELBOW (REFER TO DETAIL THIS SHEET)
AFF	ABOVE FINISHED FLOOR
AFMS	AIR FLOW MONITOR/MEASURING STATION
AFP	AIR FLOW MEASUREMENT PROBE
AFT	AIR FLOW TRANSDUCER/TEMPERATURE MONITOR
AHU	AIR HANDLING UNIT (W/ INTEGRAL DEVICES FOR COOLING, HEATING, CLEANING AND/OR FILTRATION OF THE CIRCULATED AIR). TERM MAY BE USED INTERCHANGEABLY WITH ADU'S AND ARU'S.
ADU	AIR HANDLING UNIT, W/ INTEGRAL DEVICES FOR INCREASED DEHUMIDIFICATION
ARU	AIR HANDLING UNIT, W/ INTEGRAL DEVICES FOR ENERGY RECOVERY
AL	ALUMINUM
ALT	ALTERNATE, ALTERNATIVE
AMB	AMBIENT
AP	ACCESS PANEL
APD	AIR PRESSURE DROP (IN INCHES OF WATER COLUMN)
AS	AIR SEPARATOR
AR	ACID RESISTANT
ARV	AIR RELIEF VALVE, MANUAL AIR VENT
AT	AIR TRANSFER
ATD	AIR TEMPERATURE DROP (IN °F, UNLESS OTHERWISE NOTED)
ATR	AIR TEMPERATURE RISE (IN °F, UNLESS OTHERWISE NOTED)
ATV	AIR TURNING VANES
AUTO	AUTOMATIC
AVE	AIR VOLUME EXTRACTOR
BCP	BOILER CIRCULATION PUMP
BD	BAROMETRIC DAMPER OR BAROMETRIC, COUNTER BALANCED GRAVITY OPERATED DAMPER
BDD	BACKDRAFT DAMPER
BHP	BREAK HORSPOWER,(IN HORSEPOWER)
BLDG	BUILDING
BLR	BOILER
BMS	BUILDING MANAGEMENT SYSTEM
BOD	BOTTOM OF DUCT/DEVICE (IN UNITS NOTED)
BP	BAROMETRIC PRESSURE (IN INCHES OF MERCURY, UNLESS OTHERWISE NOTED)
BTU	BRITISH THERMAL UNITS
BTUH	BRITISH THERMAL UNITS PER HOUR
CAU	COMBUSTION AIR UNIT
CBA	CHILLED BEAM, ACTIVE
CBD	CHILLED BEAM, ACTIVE DISPLACEMENT AIR UNIT
CBP	CHILLED BEAM, PASSIVE
CC	COOLING COIL
CCP	COIL CIRCULATION PUMP
CD	CONTROL DAMPER
CF	CARTRIDGE FILTER
CFH	CUBIC FEET PER HOUR (GAS UNIT OF MEASURE)
CFM	AIR/GAS FLOW RATE (IN CUBIC FEET PER MINUTE)
CSF	CHEMICAL SHOT FEEDER
CHLR	CHILLER
CHP	CHILLED WATER PUMP
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CL	CENTER LINE
CLG	CEILING
COMP	COMPRESSOR
CO	CLEAN OUT
COL	COLUMN
COND	CONDENSER
CP	CONDENSATE PUMP
CRU	COMPUTER ROOM UNIT
CSR	CURRENT SENSING RELAY
CT	COOLING TOWER
CU	CONDENSING UNIT
CUH	CABINET UNIT HEATER
CV	CONVECTOR
CWP	CONDENSER WATER PUMP
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
DB	DRY BULB TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
DC	DUST COLLECTOR
DCW	DOMESTIC COLD WATER
DELTA T / ΔT	TEMPERATURE DIFFERENCE
DHW	DOMESTIC HOT WATER
DIA / Ø	DIAMETER (IN INCHES, UNLESS OTHERWISE NOTED)
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DIFFERENTIAL PRESSURE (IN FEET OF HEAD, UNLESS OTHERWISE NOTED)
DPS	DIFFERENTIAL PRESSURE SWITCH
DPT	DIFFERENTIAL PRESSURE TRANSMITTER
DS	DUCT SILENCER
DT	DIFFERENTIAL TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
DU	DEHUMIDIFICATION UNIT
DUC	DOOR UNDER CUT (IN INCHES, UNLESS OTHERWISE NOTED)
DWG	DRAWING
E/P	ELECTRICAL/PNEUMATIC
EAT	ENTERING AIR TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
ECON	ECONOMIZER
EF	EXHAUST FAN
EFF	EFFICIENCY
EG	EXHAUST GRILLE
EH	EXHAUST HOOD
ELEV	ELEVATION
ELEC	ELECTRIC, ELECTRICAL
EM	EXPANDED METAL (MINIMUM OF 70% FREE AREA, UNLESS OTHERWISE NOTED)
EMER	EMERGENCY
EQUIP	EQUIPMENT
ERC	ENERGY RECOVERY CHILLER
ERW	ENERGY RECOVERY WHEEL, ALSO REFERRED TO AS A HEAT WHEEL
ERV	ENERGY RECOVERY VENTILATOR
ET	EXPANSION TANK
EWT	ENTERING WATER TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
EX	EXISTING
EXH	EXHAUST
EXP	EXPANSION
EXT	EXTERIOR
F&T	FLOAT AND THERMOSTATIC TRAP
F/SD	COMBINATION FIRE/SMOKE DAMPER
FC	FAN COIL UNIT
FCV	FAN COIL UNIT, FOR VRF SYSTEMS
FD	FIRE DAMPER
FOR	FUEL OIL RETURN
FOS	FUEL OIL SUPPLY
FOV	FUEL OIL VENT
FP	FIRE PROTECTION
FPM	FEET PER MINUTE
FR	FILTER RACK
FT	FEET
FT HD	FEET OF HEAD
FTR	FIN TUBE RADIATION
G	GAS
GA	GAUGE
GAL	GALLON(S)
GALV	GALVANIZED
GC	CONDENSATE PIPING - GRAVITY DRAINAGE
GF	GLYCOL FEEDER
GLR	GROUND/GEOTHERMAL LOOP RETURN
GLS	GROUND/GEOTHERMAL LOOP SUPPLY
GPM	GALLONS PER MINUTE
HC	HEATING COIL
HDG	HEAVY DUTY GRILLE
HG	REFRIGERANT HOT GAS
HHR	HEATING HOT WATER RETURN
HHS	HEATING HOT WATER SUPPLY
HLS	HIGH LIMIT SWITCH
HP	HORSEPOWER
HPR	HEAT PUMP LOOP RETURN
HPS	HEAT PUMP LOOP SUPPLY
HPU	HEAT PUMP AIR HANDLING UNIT, AIR OR WATER SOURCE
HPW	WATER TO WATER HEAT PUMP UNIT
HVAC	HEATING/VENTILATING/AIR CONDITIONING
HWP	HEATING HOT WATER PUMP
ID	INSIDE DIAMETER (IN INCHES, UNLESS OTHERWISE NOTED)
IN	INTAKE HOOD
IN WC	IN INCHES OF WATER COLUMN
INSUL	INSULATION/INSULATE
INV	INVERT
KH	KITCHEN HOOD
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
LF	LINEAR FEET
LLS	LOW LIMIT SWITCH
LP	LIQUID PETROLEUM
LPS	LOW PRESSURE STEAM SUPPLY
LVR	LOUVER
LWT	LEAVING WATER TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
M	MOTOR
MAT	MIXED AIR TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
MAX	MAXIMUM
MBH	EQUIVALENT TO 1,000 BTUH
MECH	MECHANICAL
MFR	MANUFACTURER
MH	MANHOLE
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTORIZED OPERATED DAMPER
MPS	MEDIUM PRESSURE STEAM SUPPLY
MTD	MOUNTED
MUA	MAKE-UP AIR HANDLING UNIT
NIC	NOT IN CONTRACT
No. / #	NUMBER
NOM	NOMINAL
NTS	NOT TO SCALE
NG	NATURAL GAS
NP	NON-POTABLE WATER
OA	OUTDOOR AIR
OAT	OUTDOOR AIR TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
OC	ON CENTER
OD	OUTDOOR DIAMETER (IN INCHES, UNLESS OTHERWISE NOTED)
OR	OIL RETURN
OS	OIL SUPPLY
P/E	PNEUMATIC/ELECTRIC
P/T	PRESSURE/TEMPERATURE PORT, PETE'S PLUG
P	PUMP
PC	PUMPED CONDENSATE
PHC	PREHEAT COIL
PREFAB	PREFABRICATED
PRES	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PTAC	PACKAGE TERMINAL AIR CONDITIONING UNIT
PUH	PROPELLER UNIT HEATER
PVC	POLYVINYL CHLORIDE
R	RADIANT
RAD	RADIUS
RA	RETURN AIR
RCP	RADIANT CEILING PANEL
REQ'D	REQUIRED
RFM	REFRIGERANT MONITOR
RG	RETURN AIR GRILLE
RH	RELIEF HOOD
RHC	REHEAT COIL
RL	REFRIGERANT LIQUID
RM	ROOM
RPM	REVOLUTIONS PER MINUTE
RS	REFRIGERANT SUCTION
RTU	ROOF TOP AIR HANDLING UNIT
RV	ROOF MOUNTED VENTILATOR
RWO	RETURN AIR WALL OPENING (ABOVE CEILING, UNLESS OTHERWISE NOTED)
S	SENSOR
SA	SUPPLY AIR (WITH A UNIT MEASUREMENT OF CFM)
SAG	SUPPLY AIR GRILLE
SC	STEAM CONDENSATE
SCHED	SCHEDULE
SD	SMOKE DAMPER
SF	SUPPLY FAN
SHT	SHEET
SIM	SIMILAR
SL	LINEAR SLOT DIFFUSER
SP	STATIC PRESSURE (IN INCHES OF WATER COLUMN FOR AIR/GAS SYSTEMS)
SPEC	SPECIFICATION(S)
STD	STANDARD
SF	SHOT FEEDER
T	TEMPERATURE (IN °F, UNLESS OTHERWISE NOTED)
TA	TRANSFER AIR
TC	TEMPERATURE CONTROL
TCC	TEMPERATURE CONTROL CONTRACTOR
TCP	TEMPERATURE CONTROL SYSTEM CONTROL PANEL
TCS	TEMPERATURE CONTROL SYSTEM.
TD	TEMPERATURE DROP (IN °F, UNLESS OTHERWISE STATED)
TEMP	TEMPERATURE (IN °F, UNLESS OTHERWISE STATED)
TOD	TOP OF DUCT/DEVICE (IN UNITS NOTED)
TR	TEMPERATURE RISE (IN °F, UNLESS OTHERWISE STATED)
TXV	THERMAL EXPANSION VALVE
TYP	TYPICAL
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
VAC	VACUUM
VAV	VARIABLE AIR VOLUME
VD	VOLUME DAMPER
VEL	VELOCITY (IN FEET PER MINUTE UNLESS OTHERWISE NOTED)
VF	VENTILATION FAN
VFC	VARIABLE FREQUENCY CONTROLLER (OR VFD)
VHP	VARIABLE REFRIGERANT VOLUME HEAT PUMP UNIT, FOR VRF SYSTEMS
VIF	VERIFY IN FIELD
VRC	REFRIGERANT SYSTEM CONTROLLER, FOR VRF SYSTEMS
VRF	VARIABLE REFRIGERANT FLOW
VVD	DUAL INLET VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT
VVR	VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT
VVF	FAN POWERED VARIABLE PRIMARY AIR VOLUME TERMINAL UNIT
W	WATTS
W/	WITH
W/O	WITHOUT
WB	WET BULB TEMPERATURE (IN °F, UNLESS OTHERWISE STATED)
WPD	WATER PRESSURE DROP (IN FEET OF HEAD, UNLESS OTHERWISE NOTED)
WR	WALL REGISTER

MECHANICAL SYMBOLS

PIPE ELBOW DOWN

PIPE ELBOW UP

PIPE TEE BELOW WITH BRANCH ELBOW AT DOWN

PIPE TEE ABOVE BRANCH PIPE BELOW

INDICATES DIRECTION OF DOWNWARD PITCH

PIPE EXPANSION U-LOOP (DIMENSIONS SHOWN AS 24"x48")

PIPE EXPANSION Z-LOOP (Z DIMENSION SHOWN AS 24")

PIPE EXPANSION L-LOOP (DIMENSIONS NOT SHOWN)

PIPE ANCHOR

PIPE ALIGNMENT GUIDE

PIPE EXPANSION/COMPRESSION JOINT

STRAINER

STRAINER, BLOW-OFF VALVE

SUCTION DIFFUSER, WITH STRAINER AND DRAIN

SUCTION DIFFUSER, WITH DRAIN AND NO STRAINER

UNION

VALVE (REFER TO SECTION 230532 FOR APPROPRIATE TYPE)

CHECK VALVE
- ARROW SHOWS DIRECTION OF FLOW

SPRING LOADED CHECK VALVE
- ARROW SHOWS DIRECTION OF FLOW

MANUAL BALANCING VALVE

MULTIPURPOSE VALVE (TRIPLE DUTY VALVE)

AUTOMATIC FLOW CONTROL BALANCING VALVE

PNEUMATIC-OPERATED VALVE

SOLENOID-OPERATED VALVE

MOTOR OPERATED 2-WAY CONTROL VALVE

MOTOR OPERATED 3-WAY CONTROL VALVE

MANUAL AIR RELIEF VENT
- PIPE TO NEAREST DRAIN

AUTOMATIC AIR RELIEF VENT
- PIPE TO NEAREST DRAIN

FLEXIBLE CONNECTION, RUBBER

FLEXIBLE CONNECTION, BRAIDED

A.S.M.E. PRESSURE RELIEF VALVE
- PRESSURE RATING INDICATED IN PSI

FLOW SWITCH

THERMOMETER, MOUNTED IN THERMOWELL

PRESSURE GAUGE, WITH SHUTOFF VALVE

PRESSURE SENSOR, WITH SHUTOFF VALVE

TEMPERATURE SENSOR, MOUNTED IN THERMOWELL

FLOW METER (RETRACTABLE), WITH SHUTOFF VALVE

WATER METER, IN UNITS OF GALLONS PER MINUTE (GPM)

DIFFERENTIAL PRESSURE TRANSMITTER

LIQUID LOW LIMIT SWITCH

CODED NOTE

B-A101 — EQUIPMENT SCHEDULE TAG

EQUIPMENT NOTE

24x24"
35"* (P) 10'8"*
400"

- AIR DEVICE TAG (REFER TO DEVICE SCHEDULE)
* - DESIGNATIONS — DEVICE DESIGNATIONS SHALL BE USED FOR CLARIFICATION PURPOSE IN ANY CONFIGURATION AND MAY NOT BE USED ON EVERY DEVICE.

- A TWO DIMENSIONAL NOTE SEPARATED BY A "x" INDICATES THE AIR DEVICE SIZE IN INCHES. 24x24
- A SINGLE DIMENSION NOTE INDICATED BOD ELEVATION, 10'8"
- A UNITLESS NUMBER NOTE INDICATES AIR FLOW IN CFM, 400
- A DEGREE SYMBOL INDICATES VANE DEFLECTION, 35°

CONNECT NEW TO EXISTING, FIELD VERIFY EXISTING CONDITIONS

NUM / SHEET — DETAIL REFERENCE BUBBLE

NUM / SHEET — SECTION REFERENCE BUBBLE

* - SENSOR DESIGNATION	** - OTHER INDICATION
C - CARBON DIOXIDE SENSOR	E - ELECTRIC
H - HUMIDITY SENSOR	G - INSTALL PROTECTIVE WALL GUARD
P - STATIC PRESSURE SENSOR	R - REVERSE ACTING
S - TEMPERATURE SENSOR	
T - TEMPERATURE THERMOSTAT	

SENSOR WITH PROTECTIVE WALL GUARD
*APPROPRIATE SENSOR WILL BE SIGNIFIED

PRESSURE/TEMPERATURE PORT, (P/T PORT)

WATER PRESSURE REDUCING/REGULATING VALVE (PLAN VIEW)

WATER PRESSURE RELIEF VALVE (PLAN VIEW)

GAS SHUTOFF COCK

LUBRICATED PLUG VALVE

STEAM PRESSURE REDUCING VALVE

GAS PRESSURE REDUCING/REGULATING VALVE

DOUBLE CHECK VALVE, BACKFLOW ASSEMBLY

DOUBLE CHECK VALVE, PRESSURE REDUCING BACKFLOW ASSEMBLY

ATMOSPHERIC VACUUM BREAKER

PRESSURE VACUUM BREAKER

STEAM TRAP

BLIND FLANGE

HHS — HEATING HOT WATER SUPPLY

HHR — HEATING HOT WATER RETURN

CHWS — CHILLED WATER SUPPLY

CHWR — CHILLED WATER RETURN

NP — NON-POTABLE WATER

CBWS — CHILLED BEAM WATER SUPPLY

CBWR — CHILLED BEAM WATER RETURN

HPS — HEAT PUMP LOOP SUPPLY

HPR — HEAT PUMP LOOP RETURN

MPS — MEDIUM PRESSURE STEAM SUPPLY

LPS — LOW PRESSURE STEAM SUPPLY

SC — STEAM CONDENSATE

R — IN-FLOOR RADIANT PIPING

PIPE WITH HEAT TRACING

CS — CONDENSER WATER SUPPLY

CR — CONDENSER WATER RETURN

RL — REFRIGERANT LIQUID

RS — REFRIGERANT SUCTION

RG — REFRIGERANT HOT GAS

ILS — ICE LOOP WATER SUPPLY

ILR — ICE LOOP WATER RETURN

PC — PUMPED CONDENSATE

GC — GRAVITY CONDENSATE DRAIN

AV — ATMOSPHERIC VENT

METAL DUCT
REFER TO PROJECT SPECIFICATIONS FOR DUCT INSTALLATION REQUIREMENTS. DIMENSIONS SHOWN INDICATED FREE AREA, INSIDE DUCT MEASUREMENTS. DUCT SIZE INDICATED IN INCHES WITH SHOWN DIMENSION INDICATED FIRST.

ACCOUSTICALLY LINED DUCT
REFER TO PROJECT SPECIFICATIONS FOR DUCT INSTALLATION REQUIREMENTS. DIMENSIONS SHOWN INDICATED FREE AREA, INSIDE DUCT MEASUREMENTS.

"OR"

DUCT MOUNTED AIR VOLUME BALANCING DAMPER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS. AS SYMBOLIZED WITH OR WITHOUT NOTATION.

"OR" BDD BDD

DUCT MOUNTED COUNTER WEIGHTED BACK DRAFT DAMPER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS.

"OR" FD FD-2B

FIRE DAMPER
FD INDICATES FIRE DAMPER; ADDITIONAL DESIGNATIONS MAY ALSO BE USED, SUCH AS A NUMBER TO INDICATE THE RATING OF THE FIRE DAMPER, FOR 2 OR 3 HOUR DAMPERS, AND/OR THE LETTER INDICATING THE TYPE OR STYLE OF A FIRE DAMPER, OF TYPES A, B, OR C.

"OR" SD SD

WALL MOUNTED SMOKE DAMPER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS.

"OR" F/SD F/SD

WALL MOUNTED COMBINATION FIRE/SMOKE DAMPER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION AND INSTALLATION DETAILS.

"OR" M MOD

MOTOR OPERATED DAMPER
REFER TO SPECIFICATION SECTION 230900 FOR INSTALLATION REQUIREMENTS. DAMPERS TO BE SIZED TO INSIDE DUCT DIMENSIONS. DAMPER SHALL BE OPPOSED BLADE UNLESS OTHERWISE NOTED.

T — DUCT OR EQUIPMENT MOUNTED TEMPERATURE SENSOR

H — DUCT OR EQUIPMENT MOUNTED HUMIDITY SENSOR

C — DUCT OR EQUIPMENT MOUNTED CARBON DIOXIDE SENSOR

P — DUCT OR EQUIPMENT MOUNTED DIFFERNTIAL PRESSURE SENSOR AS COMPARED WITH ATMOSPHERIC CONDITIONS

P — DUCT OR EQUIPMENT MOUNTED DIFFERNTIAL PRESSURE SENSOR MONITORING INTERNAL SYSTEM LOSS

\- — DUCT OR EQUIPMENT MOUNTED LOW TEMPERATURE SENSOR

\+ — DUCT OR EQUIPMENT MOUNTED HIGH TEMPERATURE SENSOR

RECTANGULAR DUCT SUPPLY AIR ELBOW UP/DOWN

RECTANGULAR DUCT RETURN/EXHAUST AIR ELBOW UP/DOWN

RECTANGULAR MITERED ELBOW; RADIUS (R) = 0"
ALL MITERED ELBOWS ARE TO CONTAIN TURNING VANES UNLESS OTHERWISE NOTED. REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

90° RECTANGULAR DUCT ELEVATION TRANSITION

RECTANGULAR DUCT ELEVATION TRANSITION. APPROPRIATE ANGULAR DIMENSIONS TO BE COORDINATED BY THE CONTRACTOR

RECTANGULAR DUCT TOP OR BOTTOM TRANSITION

RECTANGULAR DUCT MULTI SIDE TRANSITION
MINIMUM SLOPE = 15°
MAXIMUM SLOPE = 45°
SIDE WITH MAXIMUM SLOPE DETERMINES FITTING LENGTH.
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

RECTANGULAR DUCT SINGLE SIDE TRANSITION
MINIMUM SLOPE = 15°
MAXIMUM SLOPE = 45°
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

RECTANGULAR TO SPIRAL DUCT TRANSITION
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

OVAL TO SPIRAL DUCT DIMENSION DESCRIPTION
OVAL TO SPIRAL DUCT TRANSITION SHOWN. ALL SIZES SHOWN IN INCHES, UNLESS OTHERWISE NOTED.
24/16 = FLAT OVAL DUCT 24" WIDE WITH 16" DIAMETER SIDES

SPIRAL DUCT ELBOW UP/DOWN

SPIRAL DUCT ELEVATION TRANSITION. APPROPRIATE ANGULAR DIMENSIONS TO BE COORDINATED BY THE CONTRACTOR.

24x24 — R (RADIUS)

STANDARD RECTANGULAR ELBOW; RADIUS (R) = DUCT DIAMETER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

24"Ø — R (RADIUS)

STANDARD SPIRAL ELBOW; RADIUS (R) = 1.5 x DUCT DIAMETER
REFER TO PROJECT SPECIFICATIONS FOR CONSTRUCTION DETAILS.

SPIRAL MITERED ELBOW; RADIUS (R) = 0"
ALL MITERED ELBOWS ARE TO CONTAIN TURNING VANES UNLESS OTHERWISE NOTED. REFER TO PROJECT SPECIFCATIONS FOR CONSTRUCTION DETAILS.

PLAIN TAP, PLAIN TAP, BEVELED TAP — AIR FLOW — CONICAL TAP, BEVELED TAP, BELL MOUTH TAP

MAIN TO BRANCH TAKEOFFS
FOR DUCT INSTALLATIONS SERVING MULTIPLE AIR DEVICES, INSTALL BALANCING DAMPERS AFTER THE BRANCH TAKEOFFS SERVING SINGLE AIR DEVICES. SEVERAL TYPES OF TAKEOFFS ARE AVAILABLE, SELECT THE TAKEOFF AS INDICATED ON THE PLAN DRAWINGS.
*TAPS MAY BE UTILIZED WITH VARIOUS TAKEOFF ANGLES OTHER THAN 90 DEGREES FROM THE MAIN. REFER TO PLANS FOR INDICATION.

W+2 — W — W+H — 1" DUCT LINER

ACOUSTICAL ELBOW (AE); FOR AIR TRANSFER PURPOSES
ACOUSTICAL BOOTS NOT ATTACHED TO EQUIPMENT, AIR DEVICES, OR OTHERWISE INDICATED ON THE CONSTRUCTION DRAWINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO MINIMIZED NOISE TRANSFERRED BETWEEN SPACES. IN MOST CASES, ACOUSTICAL ELBOWS WILL NOT BE TAGGED OR LABELED AS AN ACOUSTICAL ELBOW (AE), BUT THEIR INTENDED USE SHALL INFER THE APPROPRIATE CONSTRUCTION DIMENSION.

GENERAL NOTES

1. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF THE WORK WITH OTHER TRADES DURING CONSTRUCTION. REFER TO DIVISION 9 SPECIFICATIONS FOR LISTED CONSTRUCTION FINISHES OF EXPOSED EQUIPMENT, DUCT, PIPE, ETC. UNLISTED ITEMS SHALL BE SUBMITTED TO THE PROJECT ARCHITECT FOR CLARIFICATION. ANY DUCT, PIPE, EQUIPMENT, OR ETC. INSTALLED IN A FINISHED EXPOSED SPACE SHALL BE ASSUMED TO BE PAINTED AND SHALL THEREFORE BE THOROUGHLY CLEANED AND PREPARED UNLESS OTHERWISE NOTED.
2. CONTRACTOR SHALL COORDINATE AIR DEVICE LOCATIONS WITH REFLECTED CEILING, INTERIOR AND EXTERIOR ELEVATION PLANS.
3. CONTRACTOR SHALL REFER TO EQUIPMENT SCHEDULE SHEETS FOR TAGGED EQUIPMENT PERFORMANCE REQUIREMENTS AND CONSTRUCTION DOCUMENTS FOR MINIMUM INSTALLATION REQUIREMENTS.
4. CONTRACTOR IS RESPONSIBLE TO INSTALL DUCT AND PIPE TRANSITIONS FOR THE SELECTED EQUIPMENT AS NECESSARY FOR CONNECTION OF THE INDICATED DUCT AND PIPE SIZES.
5. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RETURN AIR PLENUM. THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, AND EQUIPMENT SHALL BE RATED AND ACCEPTABLE FOR INSTALLATION IN A PLENUM SPACE.
6. WHENEVER POSSIBLE, DUCT, PIPING, CONTROL DEVICES, AND EQUIPMENT SHALL BE INSTALLED A MINIMUM OF 8" ABOVE THE FINISHED CEILING ELEVATION TO AVOID INSTALLATION CONFLICTS WITH CEILING MOUNTED DEVICES AND UNLESS OTHERWISE NOTED, THE BOTTOM OF HVAC EQUIPMENT SHALL BE A MAXIMUM OF 24" ABOVE CEILING ELEVATIONS AND UNOBSTRUCTED BY DUCT, PIPING, EQUIPMENT AND ETC. FOR SERVICE AND MAINTENANCE PURPOSES.
7. INSTALL METAL SLEEVES THROUGH WALL PENETRATION CONSISTING OF UNIFORM CONSTRUCTION MATERIALS. INSTALL FIRE CAULKING AS NECESSARY, REFER TO THE ARCHITECTURAL SHEETS FOR DESIGNATION OF FIRE AND SMOKE RATED WALL ASSEMBLIES. REFER TO DIVISION 07 SPECIFICATIONS FOR FIRE STOPPING MATERIAL DETAILS.
8. WHEN UTILIZING STRUCTURAL STEEL FOR SUPPORT OF DUCT, PIPE AND EQUIPMENT HANGERS, ATTACHMENT TO THE STRUCTURAL STEEL SHALL OCCUR AT THE TOP OR BOTTOM FLANGE OF THE STRUCTURAL ELEMENT.
9. SYMBOLS AND ABBREVIATIONS ON THIS SHEET MAY NOT ALL BE USED WITHIN THIS SET OF PROJECT DOCUMENTS.
10. A 48" LONG SECTION (MIN.) OF SUPPLY AIR DUCTWORK DOWNSTREAM OF VVR TERMINAL UNIT SHALL BE INTERNALLY LINED WITH DUCT LINER PER THE PROJECT MANUAL. SOME DUCTWORK SHOWN ON TE PLANS ARE TO BE INTERNALLY LINED THE ENTIRE LENGTH.
11. THE CONNECTION OF THE SUPPLY AIR BRANCH DUCTS TO THE MAIN SUPPLY AIR DUCT DOWNSTREAM OF THE VVR TERMINAL TO BE INSTALLED WITH A CONICAL LOW LOSS DUCT TEE AND VOLUME DAMPER.
12. ALL EXPOSED DUCTWORK NOTED TO BE A FIELD PAINTED SHALL BE PROPERLY TREATED WITH A COMPATIBLE GALVANIZED STEEL PRIMER AND CLEANED IN ORDER FOR THE PAINT TO BE APPLIED.
13. AIR TRANSFER WALL OPENINGS SHALL BE LOCATED SO THAT THERE IS A MINIMUM 8" CMU ON EITHER SIDE OF THE WALL OPENING AND 16" FROM ANY BEAM SUPPORTED ON THE WALL.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 State Route 703
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128 W Market St, Celina, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO — MARK Z. HOPE — E-79009 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

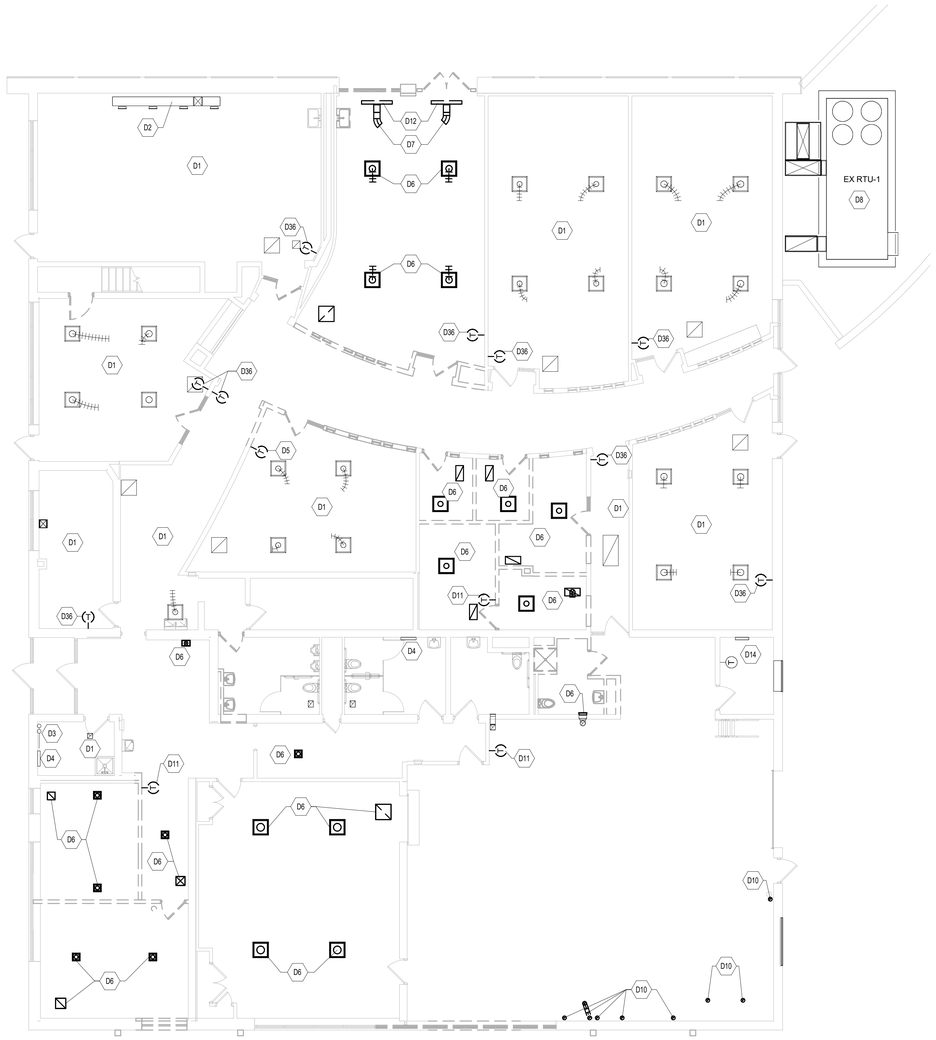
PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

SYMBOLS & ABBREVIATIONS

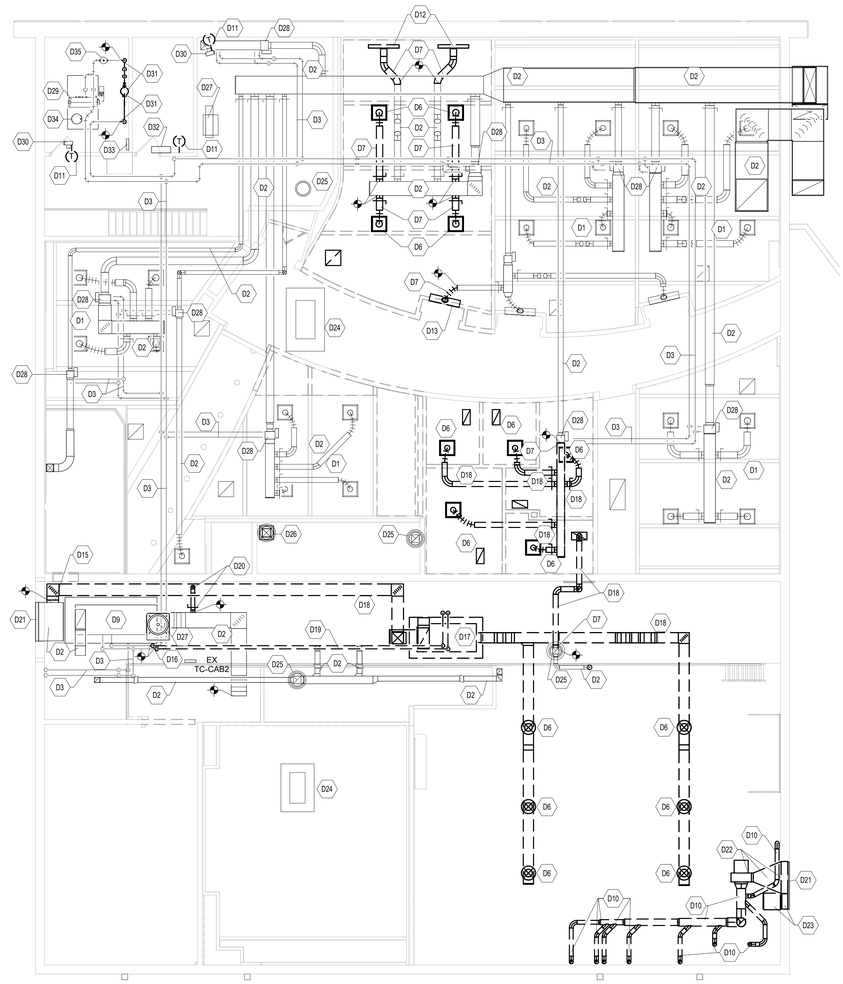
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FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



MEZZANINE LEVEL DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

MECHANICAL DEMOLITION PLAN GENERAL NOTES

A. THE DIVISION 23 CONTRACTOR SHALL VISIT THE PROJECT AND DETERMINE THE EXACT EXTENT OF THE DEMOLITION WORK REQUIRED BEFORE BIDDING THE PROJECT.
B. WHERE BUILDING SURFACES ARE DAMAGED BY THE REMOVAL OF OLD WORK, SAME SHALL BE PATCHED TO MATCH THE ADJACENT SURFACES BY THIS CONTRACTOR.
C. EXISTING OPENINGS WHICH ARE TO BE REUSED SHALL NOT BE REMOVED AND SHALL BE MODIFIED OR ENLARGED AS NEED BE TO SUIT THE NEW SYSTEMS. PROVIDE ALL REQUIRED CUTTING AND PATCHING TO MATCH ADJACENT SURFACES.
D. IF ASBESTOS IS PRESENT CONTACT THE OWNER/ARCHITECT, IT WILL BE REMOVED OR RENDERED HARMLESS UNDER SEPERATE CONTRACT BY THE OWNER.
E. THE OWNER SHALL HAVE THE RIGHT TO CLAIM ANY MATERIALS THAT ARE BEING DEMOLISHED PRIOR TO THE CONTRACTOR DISPOSING OF THEM OFF SITE. CONTRACTOR IS REQUIRED TO VERIFY THAT THE OWNER DOES NOT WANT TO CLAIM AN ITEM BEFORE DISPOSING THEM OFF SITE.
F. ALL FLOOR, WALL AND ROOF CUTTING WORK TO BE DONE BY DIVISION 23-HVAC CONTRACTOR UNLESS OTHERWISE NOTED. PATCH ALL FLOOR, WALL AND ROOF OPENINGS THAT ARE NOT REUSED TO MATCH ADJACENT CONSTRUCTION.
G. DIVISION 23 CONTRACTOR IS RESPONSIBLE TO REMOVE EXISTING CEILINGS TO DO WORK ABOVE THE CEILINGS AND REINSTALL THOSE CEILINGS AFTER COMPLETION OF WORK. IF ANY CEILING PADS OR GRIDS ARE DAMAGED, THIS CONTRACTOR SHALL REPLACE WITH NEW.

MECHANICAL DEMOLITION PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
D1	EXISTING DIFFUSERS AND GRILLES TO REMAIN.
D2	EXISTING DUCT TO REMAIN.
D3	EXISTING HYDRONIC PIPING TO REMAIN.
D4	EXISTING CONVECTOR TO REMAIN.
D5	REMOVE EXISTING SENSOR AND SALVAGE FOR RELOCATING TO NEW LOCATION. EXISTING CONTROL WIRING TO BE REMOVED AND DISPOSED OF OFF SITE. NEW CONTROL WIRE TO BE RUN FROM VAV BOX TO NEW LOCATION OF SENSOR.
D6	REMOVE EXISTING DIFFUSER AND GRILLE AND DISPOSE OF OFF SITE.
D7	REMOVE EXISTING DUCT TO POINT INDICATED AND DISPOSE OF OFF SITE. WHERE REQUIRED, PATCH CONNECTION AT EXISTING DUCT TO REMAIN AIR TIGHT AND INSULATE TO MATCH ADJACENT MATERIAL.
D8	EXISTING GROUND MOUNTED PACKAGED ROOFTOP UNIT TO REMAIN.
D9	EXISTING AIR HANDLER TO REMAIN.
D10	EXISTING WELDING FUME EXHAUST DUCT, HANGERS AND ACCESSORIES TO BE REMOVED AND DISPOSED OF OFF SITE.
D11	EXISTING SENSOR AND ASSOCIATED WIRING TO BE REMOVED AND DISPOSED OF OFF SITE
D12	REMOVE EXISTING LINEAR DIFFUSER AND PLENUM AND DISPOSE OF OFF SITE.
D13	EXISTING LINEAR DIFFUSER AND PLENUM TO BE REMOVED AND SALVAGED FOR REINSTALLATION.
D14	EXISTING ELECTRIC CABINET HEATER AND SENSOR TO REMAIN.
D15	REMOVE EXISTING OUTSIDE AIR DUCT TO POINT INDICATED AND DISPOSE OF OFF SITE. CAP EXISTING TO REMAIN AIR TIGHT AND INSULATE TO MATCH ADJACENT MATERIAL.
D16	REMOVE EXISTING HYDRONIC PIPING TO POINT INDICATED AND DISPOSE OF OFF SITE. CAP WATER TIGHT.
D17	REMOVE EXISTING AIR HANDLING UNIT AND CONCRETE PAD AND DISPOSE OF OFF SITE. REPAIR THE DECK TO MATCH EXISTING FINISHES.
D18	REMOVE EXISTING DUCT, INSULATION, HANGERS AND ACCESSORIES AND DISPOSE OF OFF SITE.
D19	REMOVE EXISTING HYDRONIC PIPING, INSULATION, HANGERS AND ACCESSORIES AND DISPOSE OF OFF SITE.
D20	REMOVE EXISTING SUPPLY AIR DUCT, INSULATION, AND ACCESSORIES TO POINT INDICATED AND DISPOSE OF OFF SITE. CAP EXISTING TO REMAIN AIR TIGHT AND INSULATE TO MATCH ADJACENT MATERIAL. FILL AND PATCH OPENING IN PRECAST CONCRETE FLOOR OPENING TO MATCH ADJACENT MATERIAL.
D21	EXISTING WALL LOUVER TO REMAIN.
D22	EXISTING WELDING EXHAUST FAN, DUCT TO WALL LOUVER, HANGERS AND ACCESSORIES TO BE REMOVED AND DISPOSED OF OFF SITE.
D23	EXISTING EXHAUST FAN, DUCT TO WALL LOUVER, HANGERS AND ACCESSORIES TO BE REMOVED AND DISPOSED OF OFF SITE.
D24	EXISTING ROOF MOUNTED RELIEF HOOD TO REMAIN.
D25	EXISTING ROOF MOUNTED EXHAUST FAN TO REMAIN.
D26	EXISTING ROOF MOUNTED INTAKE HOOD TO REMAIN.
D27	EXISTING ROOF MOUNTED CONDENSING UNIT TO REMAIN.
D28	EXISTING VAV BOX TO REMAIN.
D29	EXISTING BOILER TO REMAIN.
D30	EXISTING UNIT HEATER TO REMAIN.
D31	EXISTING HYDRONIC PUMPS AND PIPING TO BE REMOVED TO POINT INDICATED AND DISPOSED OF OFF SITE.
D32	EXISTING WALL MOUNTED MINI SPLIT UNIT TO REMAIN.
D33	EXISTING TEMPERATURE CONTROL CABINET TO REMAIN. IF TEMPERATURE CONTROL ALTERNATE IS ACCEPTED, IT'S THE CONTRACTORS OPTION TO REMOVE OR REUSE.
D34	EXISTING EXPANSION TANK TO REMAIN.
D35	EXISTING AIR SEPARATOR TO REMAIN.
D36	EXISTING THERMOSTATS TO REMAIN. UNDER ALTERNATE BID, REMOVE EXISTING THERMOSTAT AND ASSOCIATED WIRING AND DISPOSE OF OFF SITE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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WRIGHT STATE UNIVERSITY

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128 W Market St, Celina, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK E. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

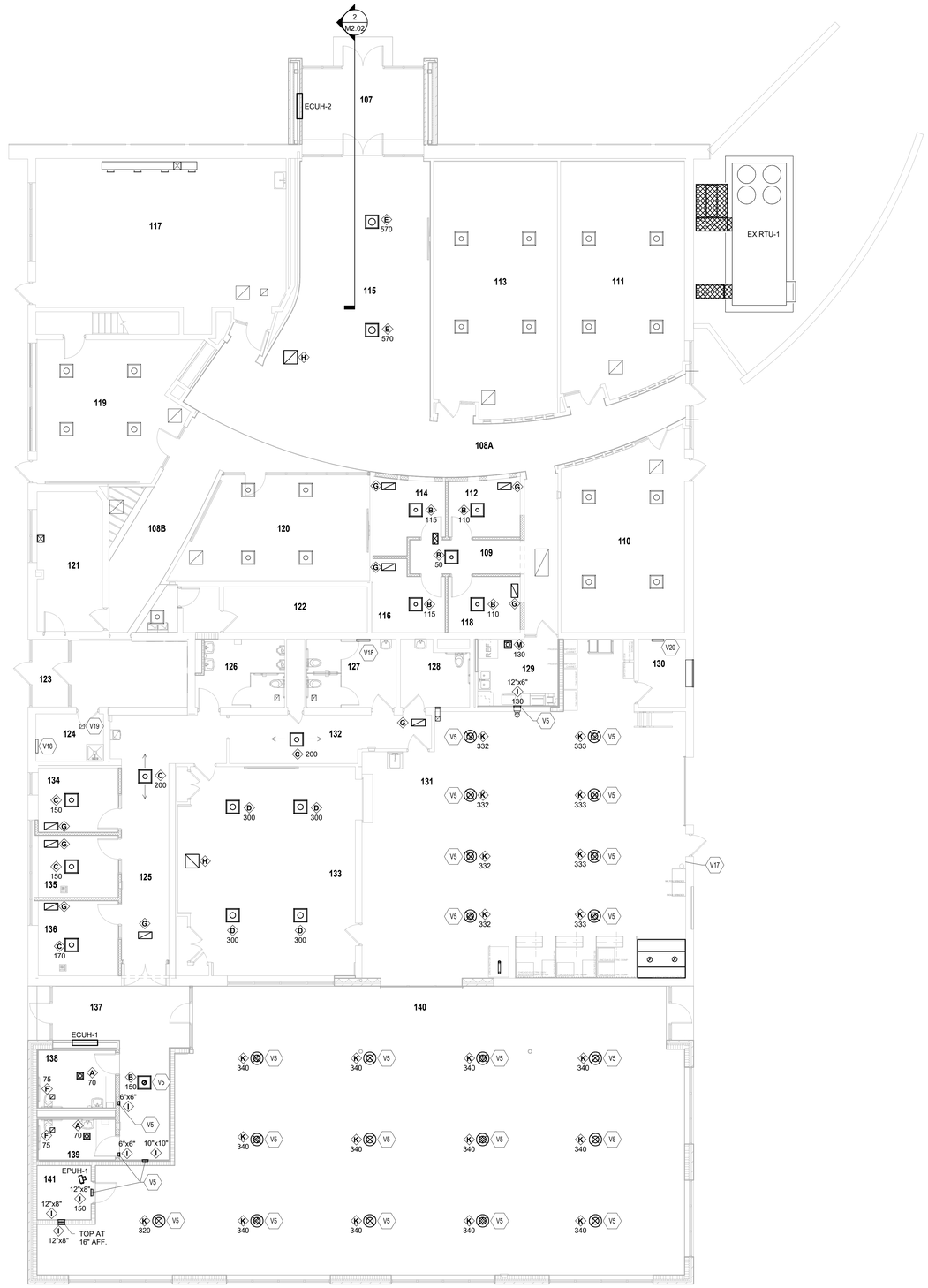
PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

FIRST FLOOR AND MEZZANINE LEVEL DEMOLITION PLAN

MD.01

Autodesk Docs://WSU-LC - Workforce Development Project/2025_MECH_224102.00.rvt
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FIRST FLOOR VENTILATION PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - FIRST FLOOR

ROOM NO.	ROOM NAME	AREA (SF)
107	VESTIBULE	230 SF
108A	CORRIDOR	744 SF
108B	CORRIDOR	274 SF
109	CORRIDOR	213 SF
110	CLASSROOM	496 SF
111	CLASSROOM	612 SF
112	OFFICE	93 SF
113	CLASSROOM	677 SF
114	OFFICE	104 SF
115	STUDENT GATHERING	751 SF
116	OFFICE	102 SF
117	DESIGN LAB	843 SF
118	OFFICE	88 SF
119	LAKER SPACE	439 SF
120	MEETING	405 SF
121	OFFICE	197 SF
122	ELECTRICAL	184 SF
123	VESTIBULE	57 SF
124	CUSTODIAL	70 SF
125	CORRIDOR	510 SF
126	MEN'S	126 SF
127	WOMEN'S	133 SF
128	RESTROOM	92 SF
129	BREAK/COPY	120 SF
130	STORAGE	70 SF
131	WELDING / MACHINING	1930 SF
132	BREAK ROOM	190 SF
133	MATERIALS SCIENCE	812 SF
134	OFFICE	112 SF
135	OFFICE	109 SF
136	OFFICE	131 SF
137	CORRIDOR	292 SF
138	UNISEX RR	97 SF
139	UNISEX RR	69 SF
140	PRODUCTION LAB	3417 SF
141	ELEC. RM.	64 SF

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SYSTEM: EX RTU-1

PROJECT Workforce Development Addition | BY ECG | DATE 9/1/26 12:00 AM
PROJECT # 224102.00 | CHECKED BY | DATE

Ventilation Rate Procedure

$V_{ot} = R_p*P_z + R_a*A_z$ (ASHRAE 62.1-2019, 6-1)
$V_{ou} = V_{ot} / E_v$ (ASHRAE 62.1-2019 6-2)
$V_{ou}=D*\sum_{all\ zones}{R_p*P_z*Y_{all\ zones}}+R_a*A_z$ (ASHRAE 62.1-2019 6-5)
$D=P_z/\sum_{all\ zones}{P_z}$ (ASHRAE 62.1-2019 6-6)
$V_{ot}=V_{ou}E_v$ or $\sum_{all\ zones}{V_{ot}}$ (ASHRAE 62.1-2019 6-10 or 6-4)

ASHRAE 62.1-2019 NORMATIVE APPENDIX A

$X_s = V_{ou} / V_{ot}$ (ASHRAE 62.1-2019 A-1)
$E_{vz} = 1+X_s-Z_{oz}$ (ASHRAE 62.1-2019 A-2)
$Z_{oz}=V_{oz}/V_{oz}$ (ASHRAE 62.1-2019 A-3)
E_v = **minimum** (E_{vz}) (ASHRAE 62.1-2019 A-9)

AIR HANDLER EX RTU-1

ROOM #	ROOM NAME	ROOM TYPE	[Az] FLOOR AREA (SQ. FT)	[Vpz] SELECTED AIRFLOW (CFM)	[Pz] NO. OF OCCUPANTS (#)	[Ra] Area Outdoor Airflow Rate (cfm/sf)	[Rp] People Outdoor Airflow Rate (cfm/person)	[Rp*Pz] Required OA (cfm)	[Ra*Az] Required OA (cfm)	[Vbz] Breathing Zone OA (cfm)	[Voz] Zone OA Rate (cfm)	Outside Airflow Provided (cfm)	[Evz] Zone Ventilation Effectiveness	Sum of Space CO2 Concentration
109	CORRIDOR	CORRIDORS	212	50	0	0.06	0	0	12.72	12.72	38	38	0.852	0
110	CLASSROOM	CLASSROOMS (AGE 9 PLUS)	496	1160	20	0.12	10	200	59.52	259.52	324	255	0.890	651
111	CLASSROOM	CLASSROOMS (AGE 9 PLUS)	612	1200	20	0.12	10	200	73.44	273.44	342	264	0.885	641
112	OFFICE	OFFICE SPACE	93	110	1	0.06	5	5	5.58	10.58	13	24	1.049	1526
113	CLASSROOM	CLASSROOMS (AGE 9 PLUS)	677	1000	20	0.12	10	200	81.24	281.24	352	220	0.818	935
114	OFFICE	OFFICE SPACE	104	115	1	0.06	5	5	6.24	11.24	14	25	1.047	1414
115	STUDENT GATHERIN	LOBBIES/PREFUNCTION	737	980	18	0.06	7.5	135	44.22	179.22	224	216	0.941	694
116	OFFICE	OFFICE SPACE	101	115	1	0.06	5	5	6.06	11.06	14	25	1.049	1442
117	DESIGN LAB	CLASSROOMS (AGE 9 PLUS)	843	750	10	0.12	10	100	101.16	201.16	251	165	0.834	792
118	OFFICE	OFFICE SPACE	87	110	1	0.06	5	5	5.22	10.22	13	24	1.054	1596
119	LAKER SPACE	CLASSROOMS (AGE 9 PLUS)	481	1520	15	0.12	10	150	57.72	207.72	260	334	0.999	728
120	CLASSROOM	CLASSROOMS (AGE 9 PLUS)	405	800	12	0.12	10	120	48.6	168.6	211	176	0.906	802
121	ER SPACE - EXTENS	CLASSROOMS (AGE 9 PLUS)	197	200	4	0.12	10	40	23.64	63.64	80	44	0.772	1114
122	ELECTRICAL	NOT REQUIRED	184	*	0	0	0	0	0	0	0	0	1.170	0
200	CHANICAL PLATFO	NOT REQUIRED	620	300	0	0	0	0	0	0	0	66	1.170	0
201	BOILER	NOT REQUIRED	165	*	0	0	0	0	0	0	0	0	1.170	0
250	ELECOM PLATFORI	NOT REQUIRED	223	*	0	0	0	0	0	0	0	0	1.170	0
147	VESTIBULE	MAIN ENTRY LOBBIES	221	570	0	0.06	5	0	13.26	13.26	17	125	1.141	0
108A	CORRIDOR	CORRIDORS	744	675	0	0.06	0	0	44.64	44.64	56	149	1.087	0
108B	CORRIDOR	CORRIDORS	274	300	0	0.06	0	0	16.44	16.44	21	66	1.101	0
	TOTALS:		20	7476	9955	123								

AIR HANDLER EX RTU-1

AHU Supply Airflow (CFM)	OUTSIDE AIR (%)	[Ez] ZONE EFFECTIVENESS	[Ps] Design Building Occupancy	[D] Occupant diversity	[Zp] Zone Primary OA Fraction (max)	[Ev] System Ventilation Effectiveness	[Vou] Uncorrected OA Intake (cfm)	[Vot] OA Intake Requirement (cfm)	[Vot] OA Intake Provided (cfm)	[Xs] Average Outdoor Air Fraction	Total Supply Air (cfm)	Airflow Diversity (%)
9955	0.22	0.8	115	0.935	0.398	0.772	1688.927642	2188	2190.1	0.170	9955	100%

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SYSTEM: EX AHU-1

PROJECT Workforce Development Addition | BY ECG | DATE 9/1/26 12:00 AM
PROJECT # 224102.00 | CHECKED BY | DATE

Ventilation Rate Procedure

$V_{ot} = R_p*P_z + R_a*A_z$ (ASHRAE 62.1-2019, 6-1)
$V_{ou} = V_{ot} / E_v$ (ASHRAE 62.1-2019 6-2)
$V_{ou}=D*\sum_{all\ zones}{R_p*P_z*Y_{all\ zones}}+R_a*A_z$ (ASHRAE 62.1-2019 6-5)
$D=P_z/\sum_{all\ zones}{P_z}$ (ASHRAE 62.1-2019 6-6)
$V_{ot}=V_{ou}E_v$ or $\sum_{all\ zones}{V_{ot}}$ (ASHRAE 62.1-2019 6-10 or 6-4)

ASHRAE 62.1-2019 NORMATIVE APPENDIX A

$X_s = V_{ou} / V_{ot}$ (ASHRAE 62.1-2019 A-1)
$E_{vz} = 1+X_s-Z_{oz}$ (ASHRAE 62.1-2019 A-2)
$Z_{oz}=V_{oz}/V_{oz}$ (ASHRAE 62.1-2019 A-3)
E_v = **minimum** (E_{vz}) (ASHRAE 62.1-2019 A-9)

AIR HANDLER EX AHU-1

ROOM #	ROOM NAME	ROOM TYPE	[Az] FLOOR AREA (SQ. FT)	[Vpz] SELECTED AIRFLOW (CFM)	[Pz] NO. OF OCCUPANTS (#)	[Ra] Area Outdoor Airflow Rate (cfm/sf)	[Rp] People Outdoor Airflow Rate (cfm/person)	[Rp*Pz] Required OA (cfm)	[Ra*Az] Required OA (cfm)	[Vbz] Breathing Zone OA (cfm)	[Voz] Zone OA Rate (cfm)	Outside Airflow Provided (cfm)	[Evz] Zone Ventilation Effectiveness	Sum of Space CO2 Concentration
123	VESTIBULE	NOT REQUIRED	57	*	0	0	0	0	0	0	0	0	1.163	0
124	CUSTODIAL	NOT REQUIRED	70	*	0	0	0	0	0	0	0	0	1.163	0
125	CORRIDOR	CORRIDORS	525	200	0	0.06	0	0	31.5	31.5	39	80	0.966	0
126	MENS	NOT REQUIRED	126	*	0	0	0	0	0	0	0	0	1.163	0
127	WOMENS	NOT REQUIRED	133	*	0	0	0	0	0	0	0	0	1.163	0
128	RESTROOM	NOT REQUIRED	92	*	0	0	0	0	0	0	0	0	1.163	0
129	BREAK/COPY	BREAKROOMS	120	130	0	0.12	5	0	14.4	14.4	18	52	1.025	0
132	BREAK ROOM	BREAKROOMS	190	200	0	0.12	5	0	22.8	22.8	29	80	1.021	0
133	/ATERIALS SCIENC	CLASSROOMS (AGE 9 PLUS)	776	1200	18	0.12	10	180	93.12	273.12	341	480	0.879	648
134	OFFICE	OFFICE SPACE	110	150	1	0.06	5	5	6.6	11.6	15	60	1.067	1361
135	OFFICE	OFFICE SPACE	111	150	1	0.06	5	5	6.66	11.66	15	60	1.066	1353
136	OFFICE	OFFICE SPACE	131	170	1	0.06	5	5	7.86	12.86	16	68	1.069	1210
400	CHANICAL PLATFO	NOT REQUIRED	1105	*	0	0	0	0	0	0	0	0	1.163	0
	TOTALS:		13	3546	2200	21								

AIR HANDLER EX AHU-1

AHU Supply Airflow (CFM)	OUTSIDE AIR (%)	[Ez] ZONE EFFECTIVENESS	[Ps] Design Building Occupancy	[D] Occupant diversity	[Zp] Zone Primary OA Fraction (max)	[Ev] System Ventilation Effectiveness	[Vou] Uncorrected OA Intake (cfm)	[Vot] OA Intake Requirement (cfm)	[Vot] OA Intake Provided (cfm)	[Xs] Average Outdoor Air Fraction	Total Supply Air (cfm)	Airflow Diversity (%)
2200	0.4	0.8	19	0.905	0.285	0.879	939.3685714	409	880	0.163	2200	100%

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SYSTEM: RTU-2

PROJECT Workforce Development Addition | BY ECG | DATE 9/1/26 12:00 AM
PROJECT # 224102.00 | CHECKED BY | DATE

Ventilation Rate Procedure

$V_{ot} = R_p*P_z + R_a*A_z$ (ASHRAE 62.1-2019, 6-1)
$V_{ou} = V_{ot} / E_v$ (ASHRAE 62.1-2019 6-2)
$V_{ou}=D*\sum_{all\ zones}{R_p*P_z*Y_{all\ zones}}+R_a*A_z$ (ASHRAE 62.1-2019 6-5)
$D=P_z/\sum_{all\ zones}{P_z}$ (ASHRAE 62.1-2019 6-6)
$V_{ot}=V_{ou}E_v$ or $\sum_{all\ zones}{V_{ot}}$ (ASHRAE 62.1-2019 6-10 or 6-4)

ASHRAE 62.1-2019 NORMATIVE APPENDIX A

$X_s = V_{ou} / V_{ot}$ (ASHRAE 62.1-2019 A-1)
$E_{vz} = 1+X_s-Z_{oz}$ (ASHRAE 62.1-2019 A-2)
$Z_{oz}=V_{oz}/V_{oz}$ (ASHRAE 62.1-2019 A-3)
E_v = **minimum** (E_{vz}) (ASHRAE 62.1-2019 A-9)

AIR HANDLER RTU-2

ROOM #	ROOM NAME	ROOM TYPE	[Az] FLOOR AREA (SQ. FT)	[Vpz] SELECTED AIRFLOW (CFM)	[Pz] NO. OF OCCUPANTS (#)	[Ra] Area Outdoor Airflow Rate (cfm/sf)	[Rp] People Outdoor Airflow Rate (cfm/person)	[Rp*Pz] Required OA (cfm)	[Ra*Az] Required OA (cfm)	[Vbz] Breathing Zone OA (cfm)	[Voz] Zone OA Rate (cfm)	Outside Airflow Provided (cfm)	[Evz] Zone Ventilation Effectiveness	Sum of Space CO2 Concentration
130	STORAGE	NOT REQUIRED	70	*	0	0	0	0	0	0	0	0	1.181	0
131	LDING / MACHINI	WOOD/METAL SHOP	1930	2660	20	0.18	10	200	347.4	547.4	684	665	0.924	516
137	CORRIDOR	CORRIDORS	302	150	0	0.06	0	0	18.12	18.12	23	38	1.030	0
138	UNISEX RR	NOT REQUIRED	96	70	0	0	0	0	0	0	0	18	1.181	0
139	UNISEX RR	NOT REQUIRED	71	70	0	0	0	0	0	0	0	18	1.181	0
140	PRODUCTION LAB	WOOD/METAL SHOP	3430	4400	20	0.18	10	200	617.4	817.4	1,022	1100	0.949	459
141	ELEC. RM	NOT REQUIRED	64	*	0	0	0	0	0	0	0	0	1.181	0
	TOTALS:		7	5963	7350	40								

AIR HANDLER RTU-2

AHU Supply Airflow (CFM)	OUTSIDE AIR (%)	[Ez] ZONE EFFECTIVENESS	[Ps] Design Building Occupancy	[D] Occupant diversity	[Zp] Zone Primary OA Fraction (max)	[Ev] System Ventilation Effectiveness	[Vou] Uncorrected OA Intake (cfm)	[Vot] OA Intake Requirement (cfm)	[Vot] OA Intake Provided (cfm)	[Xs] Average Outdoor Air Fraction	Total Supply Air (cfm)	Airflow Diversity (%)
7350	0.25	0.8	35	0.875	0.257	0.924	1332.92	1442	1837.5	0.181	7350	100%

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
V5	PAINT AIR DEVICES TO COLOR SELECTED BY ARCHITECT.
V17	APPROXIMATE LOCATION OF WELDING FUME COLLECTOR ON/OFF SWITCH.
V18	EXISTING CONVECTOR TO REMAIN.
V19	EXISTING DIFFUSERS AND GRILLES TO REMAIN.
V20	EXISTING ELECTRIC CABINET HEATER AND SENSOR TO REMAIN.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK · ZIPF · HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01WSU-231035

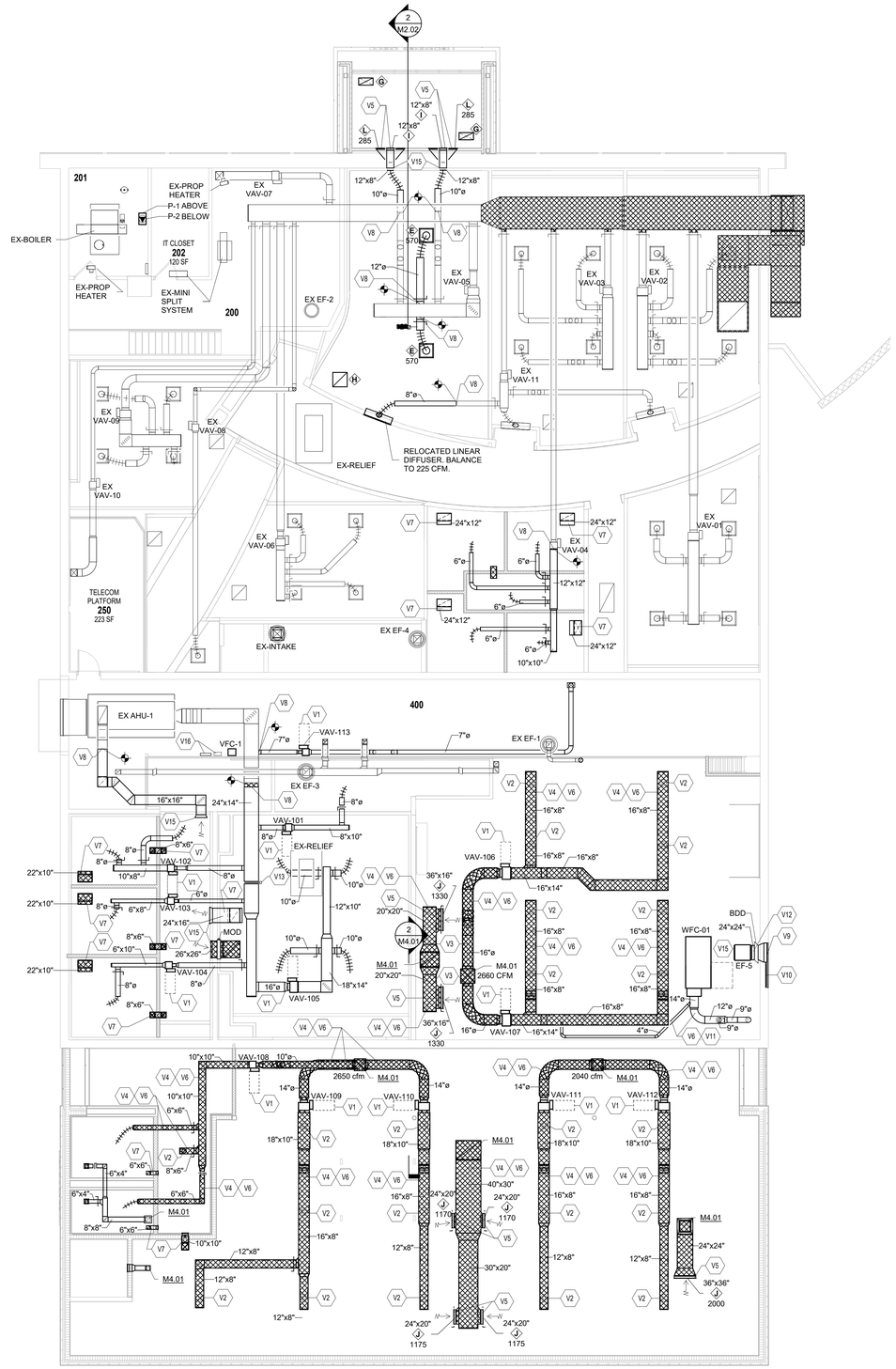
PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

FIRST FLOOR VENTILATION PLAN

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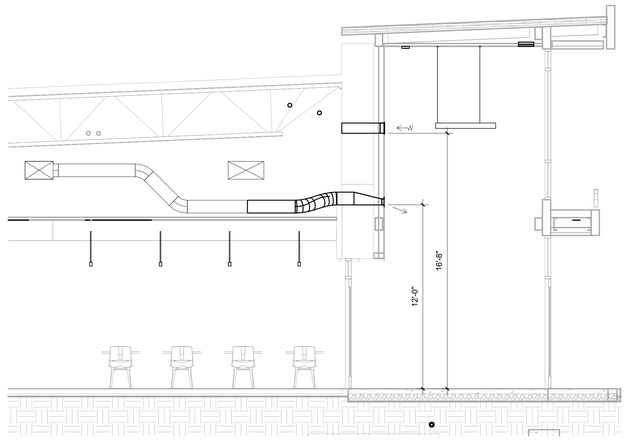
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MEZZANINE LEVEL VENTILATION PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - MEZZANINE LEVEL		
ROOM NO.	ROOM NAME	AREA (SF)
107	VESTIBULE	230 SF
115	STUDENT GATHERING	751 SF
200	MECHANICAL PLATFORM	620 SF
201	BOILER	165 SF
202	IT CLOSET	120 SF
250	TELECOM PLATFORM	223 SF
400	MECHANICAL PLATFORM	1105 SF



SECTION - VESTIBULE

SCALE: 1/4" = 1'-0"

VENTILATION PLAN GENERAL NOTES

A. ALL DUCTWORK, PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE DUCTWORK, PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OBSTRUCTIONS.
D. SEAL DUCT PENETRATIONS THROUGH THE FLOOR AND/OR WALLS IN ACCORDANCE WITH MECHANICAL CODE AND SMACNA REQUIREMENTS. SEAL DUCT PENETRATIONS THROUGH FIRE RATED FLOORS AND/OR WALLS WITH A MATERIAL HAVING SAME FIRE RATING AS THE WALL AND/OR FLOOR.
E. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
F. ALL RECTANGULAR SHEET METAL DUCT SIZES SHOWN ARE INSIDE FREE AREA DIMENSIONS. ALL ROUND DUCT SIZES SHOWN ARE INSIDE DIAMETERS.
G. PROVIDE BALANCING DAMPER AT EACH DUCT BRANCH, SERVING DIFFUSER, GRILLE AND REGISTER.
H. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44" ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
I. COORDINATE ALL REQUIRED WALL, ROOF AND FLOOR OPENINGS (BOTH DIMENSIONS AND LOCATIONS) WITH ALL OTHER TRADES.
J. COORDINATE MECHANICAL SYSTEM INSTALLATION WITH STRUCTURE, FIRE PROTECTION AND LIGHTING LAYOUT.
K. PROVIDE ALL NECESSARY TRANSITIONS TO EQUIPMENT FROM SIZES SHOWN ON PLAN.
L. ALL RETURN/EXHAUST AIR DUCT ABOVE LOCKERS/SHOWER AREAS SHALL BE MADE OF ALUMINUM IN ACCORDANCE WITH SMACNA REQUIREMENTS.

VENTILATION PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
V1	DASHED LINE INDICATED APPROXIMATE CLEARANCE REQUIRED IN FRONT OF VARIABLE VOLUME TERMINAL UNIT CONTROL PANEL. COORDINATE LOCATION WITH ALL TRADES.
V2	PROVIDE VOLUME DAMPER IN VERTICAL DUCTWORK TO AIR DEVICE.
V3	ROUTE DUCTWORK BETWEEN/THROUGH STRUCTURAL STEEL. COORDINATE EXACT LOCATION WITH STRUCTURAL CONTRACTOR AND ALL OTHER TRADES.
V4	EXPOSED DUCTWORK PROVIDED WITH 2" INTERNAL LINER.
V5	PAINT AIR DEVICES TO COLOR SELECTED BY ARCHITECT.
V6	PAINT DUCTWORK TO COLOR SELECTED BY THE ARCHITECT/ENGINEER. CLEAN AND PREPARE DUCTWORK TO ENSURE PAINT ADHERES TO DUCTWORK.
V7	ACOUSTICALLY LINED AIR TRANSFER SOUND TRAP. EXTEND DUCTWORK UP TO PROVIDE NO LINE OF SIGHT FROM OPENING TO OPENING.
V8	CONNECT TO EXISTING DUCTWORK AT THIS APPROXIMATE LOCATION. MAKE MODIFICATIONS AS NECESSARY.
V9	CONNECT NEW EXHAUST DUCTWORK TO EXISTING WALL LOUVER. MAKE MODIFICATIONS AS NECESSARY.
V10	BLANK OFF PORTION OF EXISTING WALL LOUVER AS INDICATED. PROVIDE INSULATED METAL PANEL CLOSURE AND SEAL AIRTIGHT.
V11	PROVIDE DOUBLE WALL WELDING EXHAUST DUCT.
V12	WRAP DUCTWORK FROM EXHAUST FAN TO WALL LOUVER.
V13	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR.
V15	END OF DUCT OPEN TO PLENUM SPACE ABOVE CEILING. OPENING TO BE PROTECTED WITH BIRDSCREEN.
V16	APPROXIMATE LOCATION OF EXISTING CONTROL PANEL AND EXISTING AHU-1 DISCONNECT.

VERIFICATION NOTE

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DRAWN BY: ECG

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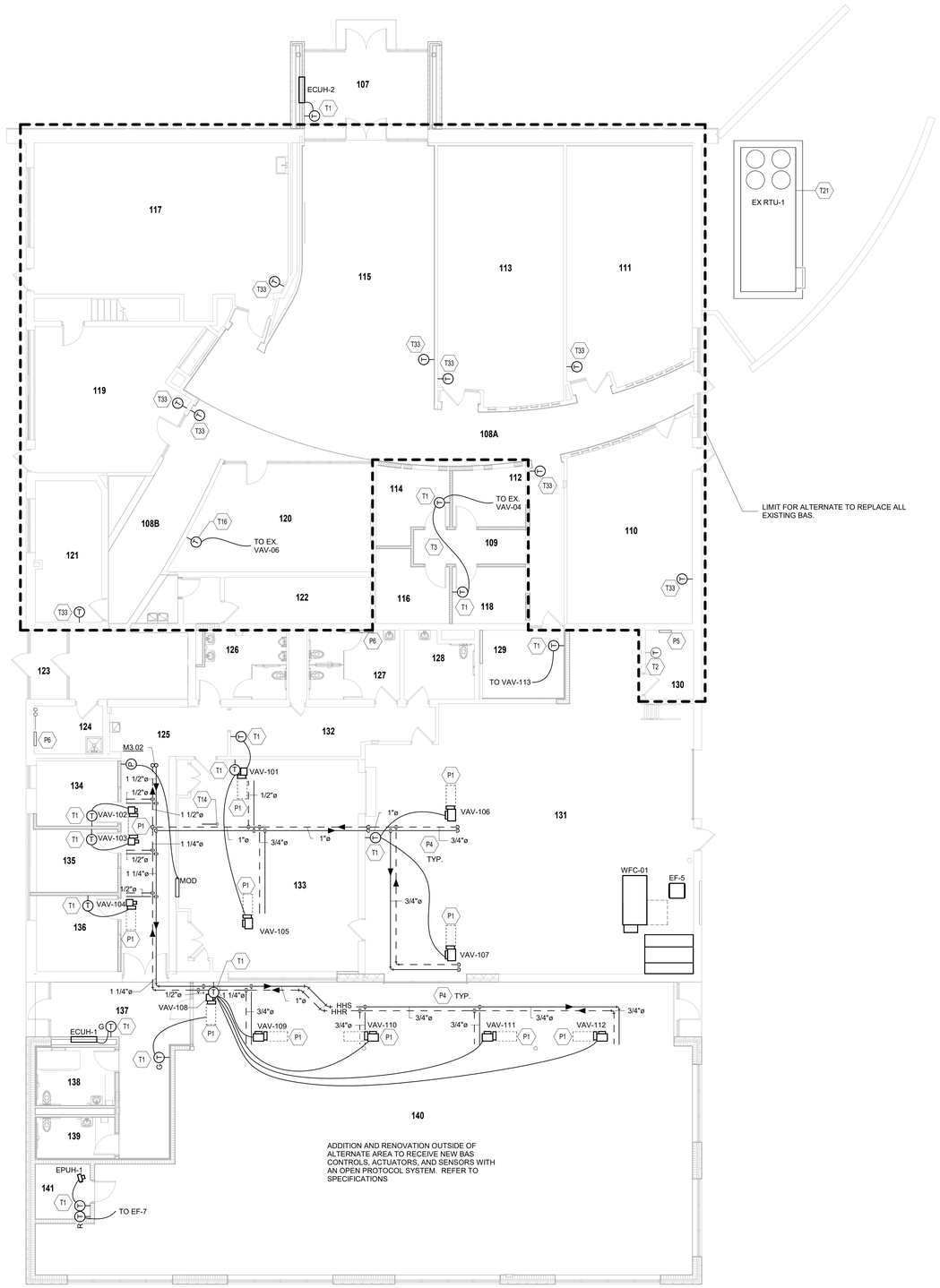
PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

MEZZANINE LEVEL VENTILATION PLAN

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FIRST FLOOR HVAC PIPING PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND - FIRST FLOOR

ROOM NO.	ROOM NAME	AREA (SF)
107	VESTIBULE	230 SF
108A	CORRIDOR	744 SF
108B	CORRIDOR	274 SF
109	CORRIDOR	213 SF
110	CLASSROOM	496 SF
111	CLASSROOM	612 SF
112	OFFICE	93 SF
113	CLASSROOM	677 SF
114	OFFICE	104 SF
115	STUDENT GATHERING	751 SF
116	OFFICE	102 SF
117	DESIGN LAB	843 SF
118	OFFICE	88 SF
119	LAKER SPACE	439 SF
120	MEETING	405 SF
121	OFFICE	197 SF
122	ELECTRICAL	184 SF
123	VESTIBULE	57 SF
124	CUSTODIAL	70 SF
125	CORRIDOR	525 SF
126	MEN'S	126 SF
127	WOMEN'S	133 SF
128	RESTROOM	92 SF
129	BREAK/COPY	120 SF
130	STORAGE	70 SF
131	WELDING / MACHINING	1930 SF
132	BREAK ROOM	190 SF
133	MATERIALS SCIENCE	812 SF
134	OFFICE	112 SF
135	OFFICE	109 SF
136	OFFICE	131 SF
137	CORRIDOR	292 SF
138	UNISEX RR	97 SF
139	UNISEX RR	69 SF
140	PRODUCTION LAB	3417 SF
141	ELEC. RM.	64 SF

HVAC PIPING PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

TEMPERATURE CONTROL PLAN GENERAL NOTES

A. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44". FROM BOTTOM OF DEVICE, ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
B. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RETURN PLENUM, THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, AND EQUIPMENT SHALL BE RATED AND ACCEPTABLE FOR INSTALLATION IN THE PLENUM SPACE.
C. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR TEMPERATURE CONTROL SPECIFICATIONS AND SEQUENCE OF OPERATIONS FOR BASE BID AND ALTERNATE BID.
D. ALTERNATE - ALL EXISTING CONTROLS INCLUDING, BUT NOT LIMITED TO, SENSORS, WIRING, ENCLOSURES, ACTUATORS, ACCESSORIES, ETC. SHALL BE REMOVED AND DISPOSED OF OFF SITE.
E. ALTERNATE - ALL DUCT MOUNTED PRESSURE SENSORS AND PIPE MOUNTED DIFFERENTIAL PRESSURE SENSORS SHALL BE REPLACED WITH NEW.
F. ALTERNATE - ALL EXISTING THERMOSTATS/SENSORS TO BE REMOVED AND REPLACED IN THE SAME LOCATION. ANY NEW THERMOSTATS/SENSORS LOCATION TO BE MOUNTED WITH BOTTOM AT 33" AFF UNLESS OTHERWISE NOTED.
G. ALTERNATE - OUTDOOR STATIC PRESSURE AND TEMPERATURE SENSOR TO BE LOCATED PER MANUFACTURER'S RECOMMENDATIONS.
H. ALTERNATE - ALL CONTROL WIRING SHALL BE REPLACED WITH NEW.
I. ALTERNATE - ALL TEMPERATURE CONTROL VALVES AND ACTUATORS ARE TO BE REPLACED WITH NEW.

HVAC PIPING/TEMPERATURE CONTROL PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	DASHED LINE INDICATES APPROXIMATE CLEARANCE REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE VOLUME TERMINAL.
P4	PAINT EXPOSED PIPING INSULATION TO COLOR SELECTED BY THE ARCHITECT/ENGINEER
P5	EXISTING ELECTRIC CABINET HEATER AND SENSOR TO REMAIN.
P6	EXISTING CONVECTOR TO REMAIN.
T1	TEMPERATURE SENSOR PROVIDED BY THE TEMPERATURE CONTROL CONTRACTOR TO MONITOR SPACE TEMPERATURE. COORDINATE LOCATION WITH ALL TRADES.
T2	EXISTING TEMPERATURE SENSOR TO REMAIN.
T3	TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE INTERCONNECTING WIRING BETWEEN ROOM TEMPERATURE SENSORS FOR SPACE AVERAGING TEMPERATURE AND TO AIR TERMINAL UNIT.
T14	ELECTRONIC AIRFLOW MEASURING STATION MOUNTED IN DUCTWORK. STATION PROVIDED BY TEMPERATURE CONTROL CONTRACTOR AND INSTALLED BY MECHANICAL CONTRACTOR. COORDINATE EXACT LOCATION WITH UNIT MANUFACTURER.
T16	NEW LOCATION OF SENSOR. PROVIDE NEW CONTROL WIRE FROM SENSOR TO VAV BOX.
T21	ALTERNATE - REMOVE ALL EXISTING GROUND MOUNTED RTU-1 INTERNAL SENSORS, CONTROL DAMPER ACTUATORS, SAFETIES AND CONTROL ACCESSORIES. EXISTING UNIT AND CONTROL DAMPERS TO REMAIN IN PLACE. PROVIDE NEW INTERNAL SENSORS, CONTROL DAMPER ACTUATORS, SAFETIES AND CONTROL ACCESSORIES.
T33	ALTERNATE - SEE TEMPERATURE CONTROLS GENERAL NOTE "F".

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK E. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

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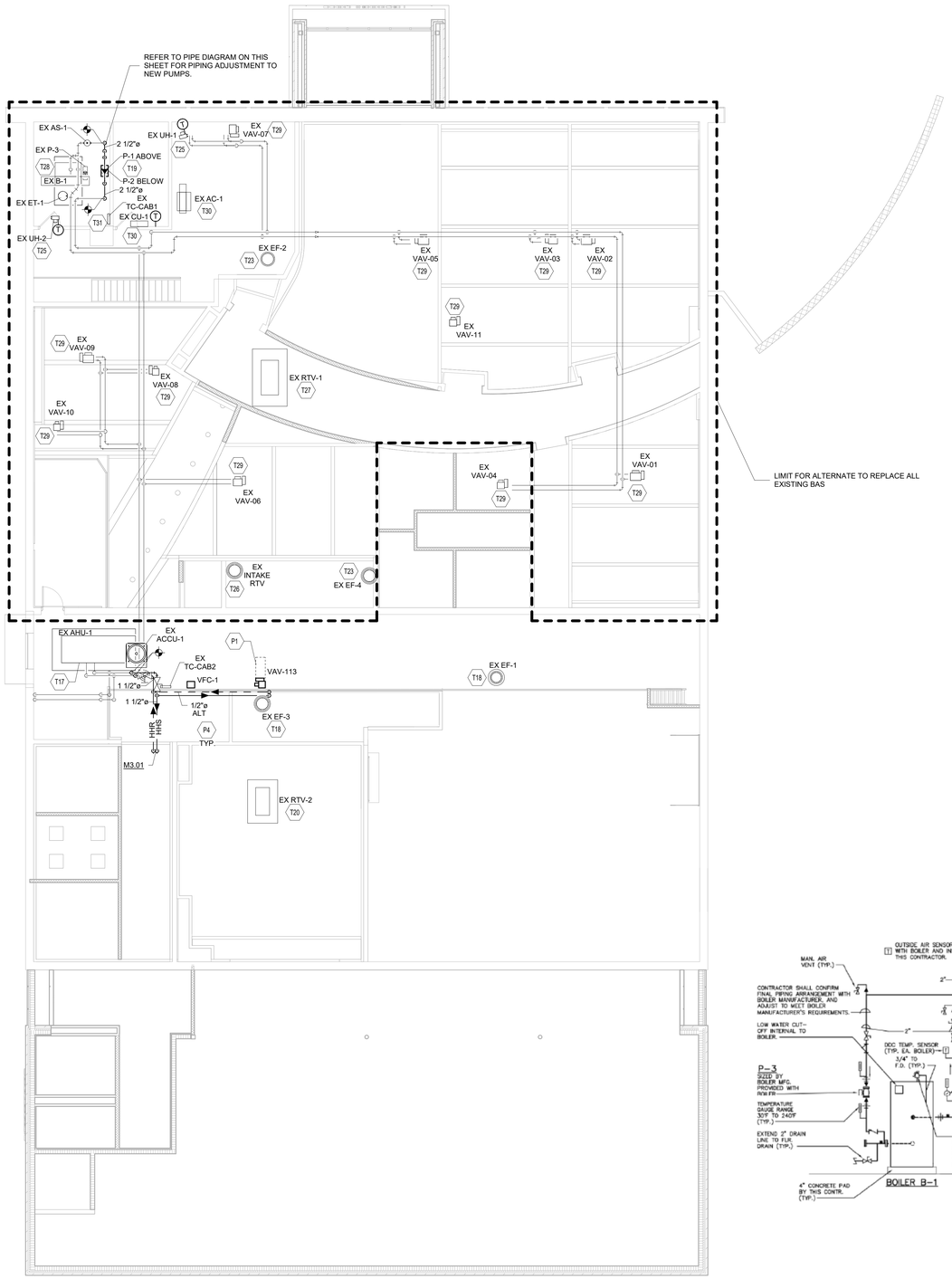
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FIRST FLOOR HVAC PIPING AND TEMPERATURE CONTROLS PLAN

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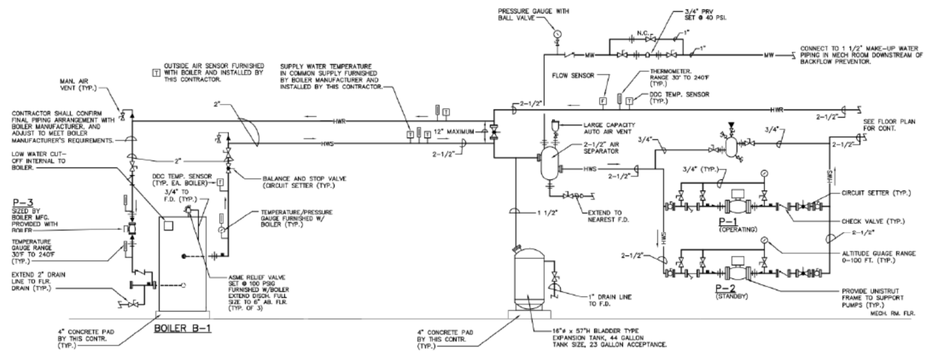
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ROOM LEGEND - MEZZANINE LEVEL		
ROOM NO.	ROOM NAME	AREA (SF)
200	MECHANICAL PLATFORM	620 SF
201	BOILER	165 SF
202	IT CLOSET	120 SF
250	TELECOM PLATFORM	223 SF
400	MECHANICAL PLATFORM	1105 SF



MEZZANINE LEVEL HVAC PIPING PLAN

SCALE: 1/8" = 1'-0"



BOILER PIPING SCHEMATIC

NO SCALE

EXISTING BOILER PIPING SCHEMATIC FOR REFERENCE ONLY. P-1 AND P-2 PUMPS TO BE REPLACED UNDER BASE BID.

HVAC PIPING PLAN GENERAL NOTES

A. ALL PIPING AND VALVES SHALL BE CONCEALED ABOVE THE CEILING AND WITHIN WALLS, UNLESS OTHERWISE NOTED.
B. REFER TO THE SPECIFICATIONS FOR REQUIREMENTS RELATED TO EQUIPMENT QUALITY, CONSTRUCTION AND FINISH OF MATERIALS.
C. ARRANGE PIPING, ETC. TO ALLOW FOR EASY ACCESS TO COILS, VALVES, DAMPERS AND CONTROLS. KEEP AREAS ADJACENT TO ACCESS PANELS FREE AND CLEAR OF ANY OPSTRUCTIONS.
D. MECHANICAL CONTRACTOR IS RESPONSIBLE FOR HIS RESPECTIVE WORK FOR REPAIRING AND PATCHING TO MATCH EXISTING SURFACES, SIDEWALKS, STREETS, FLOORS, WALLS, ROOFS, CEILING AND PAVEMENT.
E. HYDRONIC SUPPLY AND RETURN PIPING SHALL BE THE SAME SIZE UNLESS OTHERWISE NOTED.

TEMPERATURE CONTROL PLAN GENERAL NOTES

A. INSTALL WALL THERMOSTATS, TEMPERATURE SENSORS, HUMIDISTATS, ETC. 44", FROM BOTTOM OF DEVICE, ABOVE THE FINISH FLOOR IN ACCORDANCE WITH ADA REQUIREMENTS.
B. UNLESS OTHERWISE INDICATED, ALL ABOVE CEILING SPACE(S) SHALL BE CONSIDERED PART OF THE RETURN PLENUM, THEREFORE ALL PIPE, DUCT, CONTROL DEVICES, WIRING, AND EQUIPMENT SHALL BE RATED AND ACCEPTABLE FOR INSTALLATION IN THE PLENUM SPACE.
C. REFER TO SPECIFICATION SECTION 230900 AND 230993 FOR TEMPERATURE CONTROL SPECIFICATIONS AND SEQUENCE OF OPERATIONS FOR BASE BID AND ALTERNATE BID.
D. ALTERNATE - ALL EXISTING CONTROLS INCLUDING, BUT NOT LIMITED TO, SENSORS, WIRING, ENCLOSURES, ACTUATORS, ACCESSORIES, ETC. SHALL BE REMOVED AND DISPOSED OF OFF SITE.
E. ALTERNATE - ALL DUCT MOUNTED PRESSURE SENSORS AND PIPE MOUNTED DIFFERENTIAL PRESSURE SENSORS SHALL BE REPLACED WITH NEW.
F. ALTERNATE - ALL EXISTING THERMOSTATS/SENSORS TO BE REMOVED AND REPLACED IN THE SAME LOCATION. ANY NEW THERMOSTATS/SENSORS LOCATION TO BE MOUNTED WITH BOTTOM AT 33" AFF UNLESS OTHERWISE NOTED.
G. ALTERNATE - OUTDOOR STATIC PRESSURE AND TEMPERATURE SENSOR TO BE LOCATED PER MANUFACTURER'S RECOMMENDATIONS.
H. ALTERNATE - ALL CONTROL WIRING SHALL BE REPLACED WITH NEW.
I. ALTERNATE - ALL TEMPERATURE CONTROL VALVES AND ACTUATORS ARE TO BE REPLACED WITH NEW.

HVAC PIPING/TEMPERATURE CONTROL PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P1	DASHED LINE INDICATES APPROXIMATE CLEARANCE REQUIRED IN FRONT OF CONTROL PANEL TO VARIABLE VOLUME TERMINAL.
P4	PAINT EXPOSED PIPING INSULATION TO COLOR SELECTED BY THE ARCHITECT/ENGINEER
T17	BASE BIDE - REMOVE ALL EXISTING AHU-1 INTERNAL SENSORS, CONTROL DAMPER ACTUATORS, CONTROL VALVES/ACTUATORS, SAFETIES AND CONTROL ACCESSORIES. EXISTING UNIT AND CONTROL DAMPERS TO REMAIN IN PLACE. PROVIDE NEW INTERNAL SENSORS, CONTROL DAMPER ACTUATORS, CONTROL VALVES/ACTUATORS, SAFETIES AND CONTROL ACCESSORIES. THE REMOTE CONDENSING UNIT CONNECTED TO AHU-1 TO BE INCLUDED CONTROLS REPLACEMENT.
T18	BASE BID - EXISTING EXHAUST FAN TO REMAIN IN PLACE. ALL EXISTING TEMPERATURE CONTROLS SHALL BE REMOVED AND REPLACED WITH NE DDC CONTROLS. PROVIDE NEW CONTROLS TO OPERATE ON/OFF BASED ON CONTROL ZONE. REBALANCE TO REQUIRED AIR FLOW.
T19	BASE BID - EXISTING REMOVED PUMPS, P-1 AND P-2, SHALL HAVE ALL EXISTING CONTROLS REMOVED AND REPLACED WITH NEW DDC CONTROLS FOR NEW PUMPS.
T20	BASE BID - EXISTING RELIEF ROOF VENTILATOR AND ASSOCIATED CONTROL DAMPER DAMPER TO REMAIN IN PLACE. EXISTING CONTROL DAMPER OPERATOR TO BE REMOVED AND DISPOSED OF OFF SITE. PROVIDE NEW RELIEF CONTROL DAMPER OPERATOR. CONTRACTOR SHALL ENSURE PROPER OPERATION OF THE DAMPER AND REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
T23	ALTERNATE - EXISTING EXHAUST FAN TO REMAIN IN PLACE. ALL EXISTING TEMPERATURE CONTROLS SHALL BE REMOVED AND REPLACED WITH NEW DDC CONTROLS. PROVIDE NEW CONTROLS TO OPERATE BASED ON REVERSE ACTING THERMOSTAT.
T25	ALTERNATE - EXISTING PROPELLER UNIT HEATER TO REMAIN IN PLACE. ALL EXISTING TEMPERATURE CONTROLS SHALL BE REMOVED AND REPLACED WITH NEW DDC CONTROLS.
T26	ALTERNATE - EXISTING INTAKE ROOF VENTILATOR AND ASSOCIATED CONTROL DAMPER DAMPER TO REMAIN IN PLACE. EXISTING CONTROL DAMPER OPERATOR TO BE REMOVED AND DISPOSED OF OFF SITE. PROVIDE NEW INTAKE CONTROL DAMPER OPERATOR. CONTRACTOR SHALL ENSURE PROPER OPERATION OF THE DAMPER AND REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
T27	ALTERNATE - EXISTING RELIEF ROOF VENTILATOR AND ASSOCIATED CONTROL DAMPER DAMPER TO REMAIN IN PLACE. EXISTING CONTROL DAMPER OPERATOR TO BE REMOVED AND DISPOSED OF OFF SITE. PROVIDE NEW RELIEF CONTROL DAMPER OPERATOR. CONTRACTOR SHALL ENSURE PROPER OPERATION OF THE DAMPER AND REPORT ANY DEFICIENCIES TO THE ARCHITECT/ENGINEER.
T28	ALTERNATE - EXISTING BOILER TO REMAIN IN PLACE. REMOVE ALL EXISTING HEATING WATER ELECTRONIC TEMPERATURE SENSORS, ASSOCIATED CONTROLS, SAFETIES AND CONTROL ACCESSORIES SHALL BE REMOVED AND DISPOSED OF OFF SITE. PROVIDE NEW CONTROLS, SENSORS, SAFETIES AND CONTROL ACCESSORIES.
T29	ALTERNATE - EXISTING VAV TERMINAL UNIT TO REMAIN IN PLACE. ALL EXISTING TEMPERATURE CONTROLS SHALL BE REMOVED AND REPLACED WITH NEW DDC CONTROLS.
T30	ALTERNATE - EXISTING TECHNOLOGY ROOM MINI-SPLIT AIR CONDITIONER TO REMAIN IN PLACE. INSTALL NEW DDC TEMPERATURE SENSOR TO MONITOR SPACE TEMPERATURE THROUGH BAS.
T31	ALTERNATE - APPROXIMATE LOCATION OF TEMPERATURE CONTROL PANEL. REUSE IF CABINET IS ACCEPTABLE. OTHERWISE, REMOVE EXISTING CABINET AND DISPOSE OF OFF SITE AND REPLACE WITH NEW IF REQUIRED.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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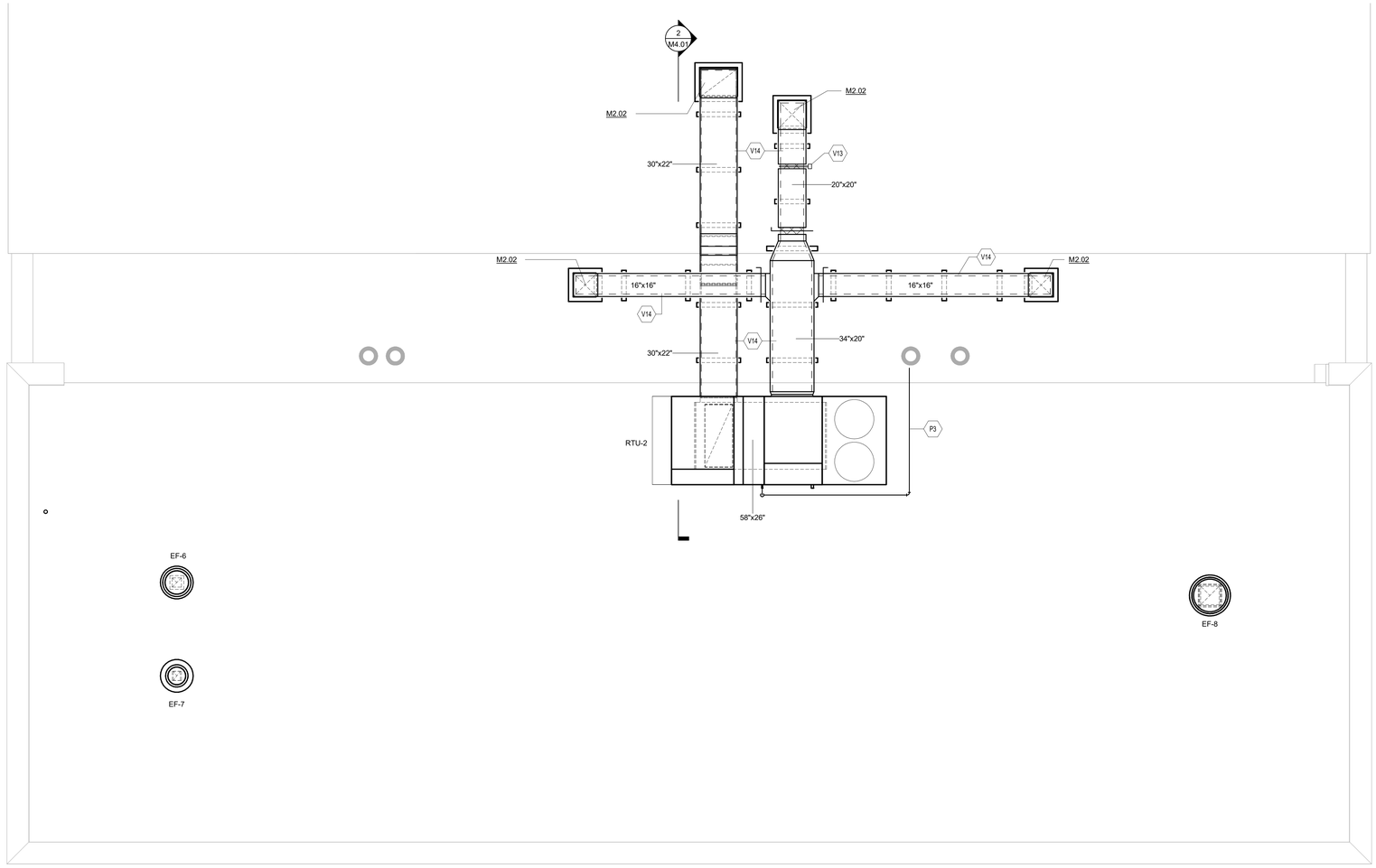
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REV. NO.	DESCRIPTION	DATE

MEZZANINE LEVEL HVAC PIPING AND TEMPERATURE CONTROLS PLAN

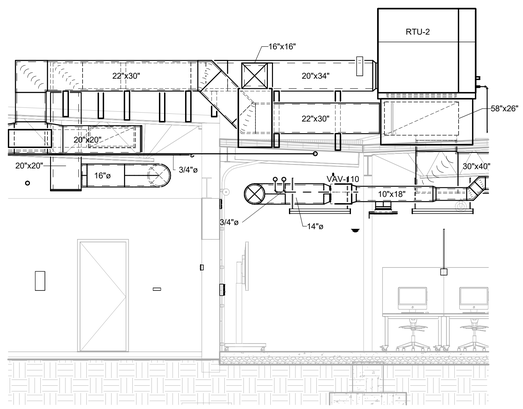
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MECHANICAL ROOF PLAN

SCALE: 1/4" = 1'-0"



SECTION - RTU-2

SCALE: 1/4" = 1'-0"

MECHANICAL ROOF PLAN GENERAL NOTES

A. MECHANICAL ROOF PLAN PROVIDED FOR REFERENCE ONLY. COORDINATION INSTALLATION OF ALL MECHANICAL EQUIPMENT ON THE ROOF WITH ALL TRADES.

MECHANICAL ROOF PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

NO.	DESCRIPTION
P3	ROUTE CONDENSATE PIPING TO NEAREST ROOF DRAIN. SUPPORT CONDESATE PIPING PER PIPE MANUFACTURER AND ROOFING MANUFATURERS REQUIREMENTS.
V13	APPROXIMATE LOCATION OF DUCT STATIC PRESSURE SENSOR.
V14	EXTERIOR DUCTWORK SHALL BE PROVIDED WITH EXTERNAL BOARD INSULATION WITH FIELD APPLIED JACKET AND WITH INTERNAL LINED INSULATION. REFER TO SPECIFICATIONS. SUPPORT ON ROOF CURBS PER MANUFACTURERS REQUIREMENTS. SEE SUPPORT CURB AND ROOF PENETRATION CURB DETAILS AND SHEET M5.03

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

MECHANICAL ROOF PLAN

M4.01

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PACKAGED DX ROOFTOP UNIT SCHEDULE

MARK	FANS												COILS											UNIT ELECTRICAL REQUIREMENTS						
	SUPPLY							EXHAUST					DX COOLING COIL					HOT GAS REHEAT COIL			HEATING GAS FURNACE									
	CFM	MINIMUM O.A. CFM	EXT. S.P.	TOTAL S.P.	HP	TYPE	ELEC.	CFM	EXT. S.P.	HP	TYPE	ELEC.	EAT	LAT	COOLING LOAD SENS.	COOLING LOAD TOTAL	APD	LAT	TOTAL CAPACITY	APD	EAT	LAT	MBH INPUT	MBH OUTPUT	STAGES	ELEC.	SCCR	FLA	MCA	MOP	EER	IEER
RTU-2	7,350	1,875	1.50	2.82	7.5	DIRECT	460/3	7,350	0.50	(2) 1.5	DIRECT	460/3	79.0 / 65.7	55.2 / 55.2	182,145	225,638	0.33	70.0 / 60.6	118,118	0.09	51.6	97.3	450	364.5	MODULATING	460/60/3	10 kAIC	48.3	54.3	70A	11.0	19.7

NOTES

1. SINGLE POINT ELECTRICAL CONNECTION TO UNITS.
2. REFER TO SPECIFICATION SECTION 237413.
3. TOTAL STATIC PRESSURE REFLECTS AVERAGE DIRTY FILTERS.
4. MAXIMUM FILTER FACE VELOCITY SHALL BE 500 FPM.
5. REFER TO PLANS AND SCHEMATICS FOR UNIT LAYOUT DETAILS.
6. VARIABLE FREQUENCY CONTROLLER (VFC) FOR ALL FAN MOTORS SHALL BE PROVIDED AND FACTORY INSTALLED BY RTU MANUFACTURER.
7. PROVIDE CONVENIENCE OUTLET AND LIGHTS ON A SEPARATE CIRCUIT.
8. MAXIMUM COOLING COIL FACE VELOCITY SHALL BE 500 FPM.
9. UNIT TO BE PROVIDED INSTALLED ON 36" HIGH PEDESTAL ROOF CURB.
10. UNIT TO BE PROVIDED WITH BACnet CARD.
10. SUMMER:
    INDOOR: 75° db/50% RH
    OUTDOOR: 90.3° db/73.6° wb
    WINTER:
    INDOOR: 72.0° db
    OUTDOOR: 2.0° db

EXISTING AHU ORIGINAL SCHEDULE INFORMATION (REFERENCE ONLY)

MARK	FANS							COILS												MODEL
	SUPPLY							COOLING MODE				HEATING MODE								
	CFM	MINIMUM O.A. CFM	EXT. S.P.	TOTAL S.P.	HP	TYPE	ELEC.	EAT	LAT	COOLING LOAD SENS.	COOLING LOAD TOTAL	APD	EAT	LAT	MBH	GPM	EWT	WTD	WPD	APD	
AHU-1	2,450	980	0.4	2.59	2	FC	460/3	80.2 / 67.2	53.3 / 52.9	72,000	107,000	0.53	51.6	96.4	140.3	7.0	180	40	0.16	0.14	M-SERIES

NOTES

1. SUMMER:
   INDOOR: 75° db
   OUTDOOR:88.0° db/73.0° wb
   WINTER:
   INDOOR: 70.0° db
   OUTDOOR: 0.0° db
2. UNIT AS SCHEDULED BY TRANE.
3. REFER TO DETAIL FOR AIR HANDLER SECTION ARRANGEMENTS.
4. COOLING COIL SHALL BE DX TYPE.
5. PROVIDE ONE CONVENIENCE OUTLET.
6. PROVIDE UNIT WITH 2" THROWAWAY FILTER, MERV 5
7. PROVIDE UNIT WITH 4" SECONDARY FILTER, MERV 8.
8. PROVIDE STAINLESS STEEL DRAIN PAN UNDER COOLING COIL.

EXISTING AHU UPDATED PERFORMANCE INFORMATION

SUPPLY FAN			
NEW SETPOINTS			
CFM	MINIMUM O.A. CFM	EXT. S.P.	
2,200	880	1.01	

REFERENCE ONLY (TRANE AIR HANDLER)

A. EXISTING AHU-1 MODEL NO.: MCCB006UA0C0UB
B. EXISTING AHU-1 SERIAL NO.: K08L24566A
C. EXISTING AHU-1 ORDER NO.: N5A502A B/M A

VARIABLE FREQUENCY CONTROLLER SCHEDULE

MARK	EQUIPMENT SERVING	MARK SERVING	HP	SERVICE (VOLT)	SERVICE (HZ)	SERVICE (PH)	NOTES
VFC-EX-SF-1	EXISTING AHU-1	EX SF-1	2	460	60	3	1,2,3,4,5,6

NOTES

1. DRIVE PROVIDED AND INSTALLED BY THE DIVISION 23 - HVAC CONTRACTOR.
2. DIVISION 26 - ELECTRICAL CONTRACTOR TO PROVIDE POWER WIRING TO VFC AND FROM VFC TO MOTOR.
3. TEMPERATURE CONTROL CONTRACTOR SHALL PROVIDE ALL TEMPERATURE CONTROL WIRING.
4. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
5. PROVIDED WITH A FACTORY MOUNTED DISCONNECT.
6. VFD PROVIDED ON EXISTING AHU-1 SUPPLY FAN MOTOR.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK	TYPE	EXAMPLE MANUFACTUER MODEL NO.	NECK SIZE	OVERALL SIZE L"xW"	MAX CORE/ NECK VEL.(FPM)	MAX. CFM	MAX. NOISE CRITERIA	FRAME/ MOUNTING	REMARKS
A	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"	12"x12"	800	150	21	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
B	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	6"	24"x24"	800	150	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
C	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	8"	24"x24"	800	300	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
D	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	10"	24"x24"	800	425	20	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
E	SQUARE PLAQUE CEILING DIFFUSER	TITUS OMNI	12"	24"x24"	800	625	23	REFER TO REFLECTED CEILING PLAN	4-WAY BLOW DIFFUSERS, UNLESS INDICATED OTHERWISE ON DRAWINGS.
F	RETURN/AIR TRANSFER GRILLE	TITUS 355	-	12"x12"	500	450	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
G	RETURN/AIR TRANSFER GRILLE	TITUS 355	-	12"x24"	500	900	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
H	RETURN/AIR TRANSFER GRILLE	TITUS 355	-	24"x24"	500	1875	20	REFER TO REFLECTED CEILING PLAN	PROVIDE ALUMINUM SURFACE MOUNT BORDER FOR DUCTED INSTALLATIONS.
I	SIDEWALL-RETURN GRILLE	TITUS 350FL	-	SEE FLOOR PLANS FOR SIZE	500	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES
J	HEAVY DUTY RETURN GRILLE	TITUS 33RL	-	SEE FLOOR PLANS FOR SIZE	-	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 38 (DEGREE) DEFLECTION BLADES
K	ROUND CEILING DIFFUSER	TITUS TMR	12" DIA.	22" DIA.	500	PER PLANS	20	DUCT - W/ SAFETY CHAIN REFER TO FLOOR PLAN	UNIFORM 360 DEGREE DISCHARGE. CONE POSITION 2. CUSTOM COLOR AS SELECTED BY A/E.
L	LINEAR SLOT SUPPLY DIFFUSER	TITUS FL-15-HT	-	48" x 7.5"	-	350	20	SIDEWALL MOUNT REFER TO FLOOR PLAN	HIGH THROW W/INSULATED PLENUM 1.5" SLOT WIDTH, TOTAL OF 2 SLOTS
M	SURFACE MOUNTED SUPPLY REGISTER	TITUS 300FL	-	SEE FLOOR PLANS FOR SIZE	500	PER PLANS	20	DUCT OR SIDEWALL: REFER TO FLOOR PLAN	FIXED 35 (DEGREE) DEFLECTION BLADES

VAV REHEAT TERMINAL SCHEDULE

MARK	INLET (IN)	AIR FLOW (CFM)		DESIGN PRESSURES		REHEAT COIL						NOTES
		PRIMARY	MIN	INLET (IN.WC)	OUTLET (IN.WC)	EAT DB (°F)	LAT DB (°F)	FLOW (GPM)	MBH	EWT (°F)	LWT (°F)	
VAV-101	08	200	100	0.82	0.50	55	90.2	0.6	7.6	180	155	1,2,3,4,5,6,7,8,9
VAV-102	06	350	175	0.87	0.50	55	90.2	0.8	13.3	180	144	1,2,3,4,5,6,7,8,9
VAV-103	05	150	75	0.83	0.50	55	90.2	0.5	5.7	180	158	1,2,3,4,5,6,7,8,9
VAV-104	07	170	85	0.81	0.50	55	90.4	0.4	6.5	180	150	1,2,3,4,5,6,7,8,9
VAV-105	12	1200	600	0.87	0.50	55	90.2	2.3	45.6	180	139	1,2,3,4,5,6,7,8,9
VAV-106	14	1330	665	0.96	0.50	55	90.2	2.0	50.5	180	127	1,2,3,4,5,6,7,8,9
VAV-107	14	1330	665	0.99	0.50	55	90.2	2.0	50.5	180	127	1,2,3,4,5,6,7,8,9
VAV-108	06	290	145	0.86	0.50	55	90.7	0.6	11.2	180	142	1,2,3,4,5,6,7,8,9
VAV-109	12	1,340	670	0.98	0.50	55	90.2	2.9	50.9	180	144	1,2,3,4,5,6,7,8,9
VAV-110	12	1,020	510	1.03	0.50	55	90.1	1.6	38.7	180	132	1,2,3,4,5,6,7,8,9
VAV-111	12	1,020	510	0.92	0.50	55	90.1	1.6	38.7	180	132	1,2,3,4,5,6,7,8,9
VAV-112	12	1,020	510	0.92	0.50	55	90.1	1.6	38.7	180	132	1,2,3,4,5,6,7,8,9
VAV-113	05	130	65	0.82	0.50	55	90.0	0.4	4.9	180	155	1,2,3,4,5,6,7,8,9

NOTES:

1. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
2. UNIT AS SCHEDULED BY TITUS.
3. UNIT MANUFACTURER SHALL PROVIDE REQUIRED HANGING BRACKETS/THREADED ROD AND VIBRATION ISOLATORS TO PROPERLY SUPPORT UNIT.
4. PROVIDE FACTORY MOUNTED DISCONNECT SWITCH.
5. HEATING COIL DESIGN BASED ON HIGH-EFFIECIENCY, HOT WATER COIL, UNLESS OTHERWISE NOTED.
6. COILS SHALL BE SELECTED WITH 10' WPD MAXIMUM.
7. PROVIDE NUMBER OF COIL ROWS AS REQUIRED TO MEET MBH. COILS MAY REQUIRE 4-ROW COIL.
8. NOISE LEVELS ARE NOT TO EXCEED 35 NC
9. PROVIDE FACTORY-MOUNTED AND PRE-PROGRAMMED, PRESSURE-INDEPENDENT, BACNET DDC CONTROLLER WITH AIRFLOW MEASUREMENT.
10. LOW VOLTAGE WIRING FROM MAIN CONTROL PANELS. PROVIDE TRANSFORMERS AT MAIN CONTROL PANELS TO STEPDOWN POWER FOR LOW VOLTAGE CONTROLS.

PUMP SCHEDULE

MARK	SYSTEM SERVED	TYPE	MIN FLOW GPM	GPM	HEAD FT.	MIN EFF. %	BHP@ DESIGN FLOW	SUCT. X DISCH.	IMPELLER DIAMETER	MOTOR RPM	MOTOR HP	MOTOR VOLT	MOTOR PH	WEIGHT (LBS.)
P-1	PRIMARY HEATING HOT WATER	CLOSE COUPLED IN-LINE	45	45	75	48.8	1.69	1.5x1.5	8.75	1702	3	460	3	180
P-2	STANDBY HEATING HOT WATER	CLOSE COUPLED IN-LINE	45	45	75	48.8	1.69	1.5x1.5	8.75	1702	3	460	3	180

NOTES:

1. REFER TO PROJECT MANUAL SECTION 232123.
2. SCHEDULED MAUFACTURER BY BELL & GOSSETT - MODEL #: BG-E80-1.5x1.5x9.5B-SS182JM-1-IN.
3. SINGLE POINT POWER CONNECTION TO THE PUMP. WIRING BETWEEN PUMP AND DISCONNECT/STARTER BY DIVISION 26.

EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	RPM	EXT. S.P.	MAX. SONES	ELEC HP	ELEC SERV	CONTROL	MODEL	DRIVE	NOTES
EF-5	INLINE	1,400	703	0.30	4.2	3/4	208/1	C	SQ-160-VG	DIRECT	1,2,3,5,6,7
EF-6	ROOF MOUNTED	150	1,060	0.29	4.3	1/4	115/1	A	G-097-VG	DIRECT	1,2,3,4,5,6
EF-7	ROOF MOUNTED	150	1,561	0.18	3.8	1/15	115/1	B	G-060-VG	DIRECT	1,2,3,4,5,6
EF-8	ROOF MOUNTED	2,000	669	0.32	7.0	1	208/1	C	G-180-VG	DIRECT	1,2,3,4,5,6

NOTES

1. INCLUDE FACTORY MOUNTED DISCONNECT SWITCH.
2. INCLUDE BACKDRAFT DAMPER.
3. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.
4. MOUNT ON 12" HIGH ROOF CURB, UNLESS OTHERWISE NOTED.
5. ALL FAN MODELS SPECIFIED AS MANUFACTURED BY GREENHECK.
6. INCLUDE FACTORY MOUNTED AND WIRED SPEED CONTROL.
7. SUPPORT FROM STRUCTURE ABOVE WITH THREADED ROD AND VIBRATION ISOLATORS.

KEY — CONTROL
A. AUTOMATIC OCCUPIED OPERATION BY LOCAL TEMPERATURE CONTROL ZONE.
B. AUTOMATIC OPERATION BY REVERSE-ACTING THERMOSTAT.
C. MANUAL CONTROLS WITH TIMER SWITCH BY DIVISION 26.

ELECTRIC PROPELLER AND CABINET UNIT HEATER SCHEDULE

MARK	CFM	ELECTRIC HEATING BTUH	ELECTRIC HEATING KW	ELECTRIC HEATING AMPS	ELEC SERV	MFG. MODEL NO.	NOTES
	HI/LO		HI/LO	HI/LO			
ECUH-1	250/230	17,065	5.0/3.0	7.8/4.6	480/3	6333D054833B30D0F0	1,2,3,4,5
EPUH-1	275	6,396	1.9	9	208/1	HF5705T	1,3,4,5,6
ECUH-2	500/460	34,130	10.0/6.0	15.4/8.1	480/3	6346D104833B30D0F0	1,2,3,4,5

NOTES

1. UNITS SCHEDULED ARE AS MANUFACTURED BY RAYWALL.
2. FULLY RECESSED WALL MOUNTED UNIT, FRONT FACE TOP SUPPLY AND BOTTOM RETURN.
3. REFER TO SPECIFICATION 238239.
4. FACTORY MOUNTED DISCONNECT SWITCH.
5. COLOR TO BE STANDARD COLOR AS SELECTED BY ARCHITECT/ENGINEER.
6. SUPPORT HEATER FROM STRUCTURE ABOVE WITH MINIMUM OF TWO (2), THREADED RODS, AND VIBRATION ISOLATORS.

WELDING EXHAUST FUME COLLECTOR SCHEDULE

MARK	TYPE	MFG. - MODEL	CFM	ESP	ELEC HP	ELEC SERV	ELEC AMPS	DRIVE
WFC-01	CEILING MOUNTED CARTRIDGE	MICROAIR - MC3000	3,000	2.35"	5.0	460/3	6.8	BELT

NOTES:

1. REFER TO SPECIFICATION SECTION 238061 FOR ADDITIONAL REQUIREMENTS.
2. REFER TO DRAWINGS FOR APPROXIMATE LOCATION OF ON/OFF SWITCH. COORDINATE EXACT LOCATION WITH ALL TRADES.
3. 1/2" CONNECTION FOR COMPRESSED AIR.
4. MOTOR STARTER AND OVERLOAD PROTECTION INTEGRAL TO UNIT.

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CONSTRUCTION DOCUMENTS

STATE OF OHIO — MARK Z. HOFE — E-79009 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

MECHANICAL SCHEDULES

M5.01

THIS SHEET FOR REFERENCE ONLY
EXISTING EQUIPMENT SCHEDULES
TO BE USED FOR ALTERNATE BID FOR CONTROLS REPLACEMENT

EXISTING ROOFTOP UNIT SCHEDULE

UNIT				EVAPORATOR FAN									COMPRESSOR				CONDENSER					COOLING COIL *CAPACITY BASED ON 95°F AMBIENT AIR TEMP.								HEAT			ELECTRICAL					
MARK	LOCATION	MFGR & MODEL NUMBER	UNIT WEIGHT POUNDS	NOM. TONS	HP	BHP REQ'D	FLA	SUPPLY CFM	ESP	RPM	OUTSIDE AIR RPM	OUTSIDE AIR RPM	HP	NO. OF COMP.	RLA	NO. OF STAGES	HP	NO. OF FANS	SQ. FT. COILS	CFM	FLA	TYPE	EDB	EWB	NET SENS. MBH	NET SENS. MBH	NET LATENT MBH	NET TOTAL MBH	SQ. FT. COILS	FACE VEL.	MBTUH INPUT	MBTUH OUTPUT	STAGES OF CONTROL	VOLT	PHASE	CONTROL VOLTAGE	MINIMUM CIRCUIT AMPS	MOCP	MIN. DISCONNECT
RTU-1	GRADE	TRANE MODEL YCH420	2300	35	15	9.35	18.9	12000	2.0"	1760	10	1600	--	3	14.1 / 19.2 (2)	3	1.1	3	51.3	24,800	3.5 EACH	DX	78	65	282	282	77	358	31.7	379	350	283	5	480	3	24	90.3	100A	98A

NOTES

1. REFER TO SPECIFICATION FOR FILTER REQUIREMENTS
2. PROVIDE UNIT WITH 18" HIGH GRADE MOUNT BASE, BASE TO BE INSTALLED ON CONCRETE PIER SUPPORTS PER MANUFACTURER'S RECOMMENDATIONS.
3. EXTEND CONDENSATION DRAIN PIPING FROM THE DRAIN PAN OF UNIT TO SPLASH BLACK.
4. FURNISH UNIT WITH 100% OUTSIDE AIR ECONOMIZER.
5. CONTR. TO PROVIDE R.A. SMOKE DETECTOR. CONTR. TO INSTALL IN RETURN DUCT.
6. PROVIDE 120V-15A POWERED CONVENIENCE OUTLET AND LIGHT AT UNIT.
7. PROVIDE UNIT WITH FACTORY INSTALLED 100% POWERED EXHAUST, (2) 1-HP 460V 1.8 MOTORS.

EXISTING BOILER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON LOCHINVAR KNIGHT XL UNLESS OTHERWISE NOTED.

BOILER NO.	MFGR. MODEL NUMBER	OUTPUT MBH		VOLT. / PHASE	BOILER HP	BLOWER HP	
1	KBN801	752		120 / 1	23.8		

NOTES

1. FURNISH WITH GAR REGULATOR. PRESSURE FOR BOILERS SHALL BE A MAXIMUM OF 10.5" W.C. AND A MINIMUM OF 4" W.C.
2. FURNISH WITH "SMART SYSTEM" CONTROLLER, OUTDOOR AIR SENSOR, AND SECONDARY WATER TEMPERATURE SENSOR.
3. FURNISH WITH BOILER CIRCULATOR (P-3) A SIZED AND PROVIDED BY BOILER MANUFACTURER.
4. PROVIDE CPVC VENT/INTAKE PIPING PER MANUFACTURER'S RECOMMENDED SIZING RECOMMENDATIONS.

EXISTING EXHAUST FAN SCHEDULE

MARK	TYPE	CFM	RPM	EXT. S.P.	MAX. SONES	ELEC HP	ELEC SERV	CONTROL	MODEL	DRIVE	NOTES
EF-1	ROOF	525	1,366	0.425	7.8	1/6	115/1	A	GB-081	BELT	1,2,3.5
EF-5	ROOF MOUNTED	550	--	0.25	--	1/4	115/1	A	--	--	4
EF-1	ROOF MOUNTED	300	1,349	0.33	5.8	1/6	115/1	A	G-085-VG	DIRECT	1,2,3,6
EF-2	ROOF MOUNTED	750	1,311	0.30	6.9	1/4	115/1	C	CUBE-101	--	1,2,3,6
EF-3	SIDEWALL	450	1,282	0.375	8.5	1/8	115/1	B	SEI-12-432-VG	DIRECT	1,2,3,6
EF-4	ROOF MOUNTED	700	1,088	0.30	5.1	1/4	115/1	B	G-103-VG	DIRECT	1,2,3,6

NOTES

1. INCLUDE DISCONNECT SWITCH.
2. INCLUDE BACKDRAFT DAMPER.
3. ALL FAN MODELS AS MANUFACTURED BY GREENHECK.
4. INFORMATION FROM 1979 ORIGINAL DOCUMENTS.
5. INFORMATION FROM 2008 ORIGINAL DOCUMENTS
6. INFORMATION FROM 2015 ORIGINAL DOCUMENTS.

KEY CONTROL
A. AUTOMATIC OCCUPIED OPERATION BY LOCAL TEMPERATURE CONTROL ZONE.
B. AUTOMATIC OPERATION BY REVERSE-ACTING THERMOSTAT.
C. MANUAL CONTROLS WITH TIMER SWITCH BY DIVISION 26.

EXISTING VAV REHEAT TERMINAL SCHEDULE

REHEAT COIL SELECTIONS BASED ON 40°F AIR TEMP. RISE, 30°F WATER TEMP. DROP, 180°F ENTERING WATER, 55°F ENTERING AIR

MARK	SIZE	PRIMARY	MIN CFM COOLING	MIN CFM HEATING	OUTLET (IN.WC)	NC	FLOW (GPM)	MBH	NOTES
VAV-01	12	1,160	350	425	0.50	26	1.4	21	1
VAV-02	12	1,200	360	360	0.50	26	1.1	16.6	
VAV-03	10	1,000	300	300	0.50	26	0.9	13	
VAV-04	08	500	150	150	0.50	26	0.5	6.5	
VAV-05	12	1,550	465	750	0.50	26	2.2	33.5	
VAV-06	10	800	240	240	0.50	26	0.7	10.4	
VAV-07	10	1,050	300	300	0.50	26	1.0	15	
VAV-08	06	300	90	150	0.50	26	0.5	6.5	1
VAV-09	12	1,520	460	460	0.50	26	1.5	22.3	
VAV-10	06	200	60	100	0.50	26	0.3	4.3	
VAV-11	08	675	205	275	0.50	26	0.8	12.3	

NOTES:

1. PIPE REHEAT COIL WITH THREE-WAY AUTO CONTROL VALVE

EXTERIOR WALL LOUVER SCHEDULE

MARK	SIZE W X H	TOP OF LOUVER ELEVATION	TYPE OF LOUVER	USE OF LOUVER	NOTES
WL-01	16" X 16"	11'-4" AFF	WL-1	EXHAUST	1,2,3,4,5,6,7

NOTES:

1. REFER TO PROJECT MANUAL SECTION 089119.
2. SEAL ALL AROUND WITH SILICONE.
3. REFER TO INSTALLATION DETAILS ON ARCHITECTURAL DRAWING.
4. CUSTOM COLOR AS SELECTED BY ARCHITECT/ENGINEER.
5. COORDINATE SIZE AND LOCATION WITH ALL TRADES.
6. INSTALL WALL LOUVER AS HIGH AS POSSIBLE. FIELD VERIFY EXACT ELEVATION.
7. DRIP PAN TO EXTEND A MINIMUM OF 6" ON EACH SIDE OF WALL LOUVER.

EXISTING CABINET UNIT HEATER SCHEDULE

MANUFACTURER'S MODEL NUMBER BASED ON TRANE UNLESS OTHERWISE NOTED.

UNIT NO.	FRAME TYPE	MFGR. MODEL NUMBER	KW	MBH	AMPS	VOLT. / PHASE	NOTES
CUH-1	SURFACE MOUNT	UHWA051	5.0	17.1	24	208 / 1	1,2

NOTES

1. FURNISH WITH INTERNAL THERMOSTAT.
2. FURNISH WITH CIRCUIT BREAKER.

ORIGINAL EXISTING AIR-COOLED CONDENSING UNIT SCHEDULE

MARK	MBH	NOMINAL TONS	AMBIENT TEMP	MOCP	MCA	SERVICE	MODEL
ACCU-1	128.0	10.0	88.0	35	23.3	460/60/3	TTA120A400F

NOTES:

1. UNIT AS SCHEDULED BY TRANE.
2. UNIT SHALL HAVE A MINIMUM SEER RATING OF 10.1.

NOTE:
ORIGINAL TRANE CONDENSING UNIT REPLACED WITH A CARRIER UNIT.
MODEL #: 38AUZM12A0A6A0A0A0
SERIAL #: 2725C10798
REFRIGERANT: R-410A - 9 POUNDS

EXISTING IT ROOM EQUIPMENT NOTE

AC-1/CU-1
MITSUBISHI MODEL PKA-A24KA, WALL MOUNTED, DUCTLESS AIR CONDITIONER WITH MATCHING MODEL PUZ-A24NHA3 CONDENSING UNIT. 24,000 BTUH TOTAL COOLING CPACITY, 17 SEER, 208/230V, 1p, 25A MCA, 40A MAX OVERCURRENT PROTECTION DEVICE. CONTROL WIRING BY THE HVAC CONTRACTOR, PROVIDE WITH LOW AMIENT CONTROLS TO 0°F AND LOCKING BRACKET FOR REMOTE THERMOSTAT. ROUTE CONDENSATE DRAIN TO FLOOR DRAIN IN ADJACENT MECHANICAL ROOM. PROVIDE ROOF MOUNTING FOR CONDENSING UNIT.

EXISTING UNIT HEATER NOTE

UH-1
HORIZONTAL UNIT HEATER - TRANE MODEL "S' S-36 - 18.6 MBH TOTAL HEATING CAPACITY, 2.4 GPM, 180°F EWT, 150°F LWT, 0.09 FT. HD. W.P.D., 550 CFM AIRFLOW, 1550 RPM, 25 WATT MOTOR, 115/60/1 POWER. FURNISH WITH INTEGRAL DISCONNECT SWITCH, TOTALLY ENCLOSED MOTOR, COPPER TUBES, WALL MOUNTING BRACKET, AND LINE VOLTAGE THERMOSTAT. THERMOSTAT BY CONTRACTOR, WIRED BY ELEC. CONTRACTOR. CAPACITIES BASED ON 60°F ENTERING AIR TEMPERATURE.

UH-2
HORIZONTAL UNIT HEATER - TRANE MODEL "S' S-36 - 18.6 MBH TOTAL HEATING CAPACITY, 2.4 GPM, 180°F EWT, 150°F LWT, 0.09 FT. HD. W.P.D., 550 CFM AIRFLOW, 1550 RPM, 25 WATT MOTOR, 115/60/1 POWER. FURNISH WITH INTEGRAL DISCONNECT SWITCH, TOTALLY ENCLOSED MOTOR, COPPER TUBES, WALL MOUNTING BRACKET, AND LINE VOLTAGE THERMOSTAT. THERMOSTAT BY CONTRACTOR, WIRED BY ELEC. CONTRACTOR. CAPACITIES BASED ON 60°F ENTERING AIR TEMPERATURE.

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7600 State Route 703
Celina, OH 45822

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N

CONSTRUCTION DOCUMENTS

STATE OF OHIO — MARK Z. HOPE — E-79009 — REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

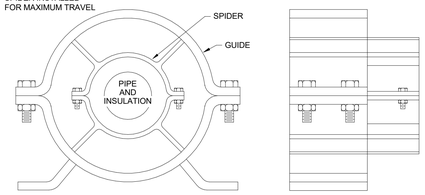
MECHANICAL SCHEDULES

M5.02

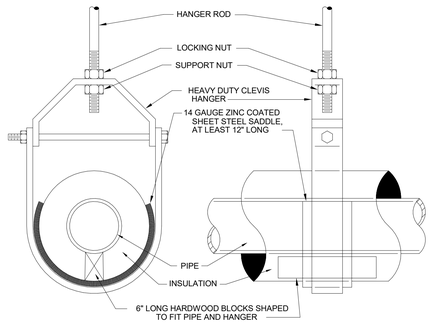
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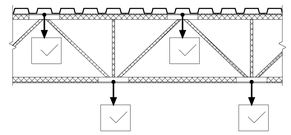
NOTE
SPIDER INSTALLED
FOR MAXIMUM TRAVEL



1 PIPE ALIGNMENT GUIDE DETAIL
NO SCALE

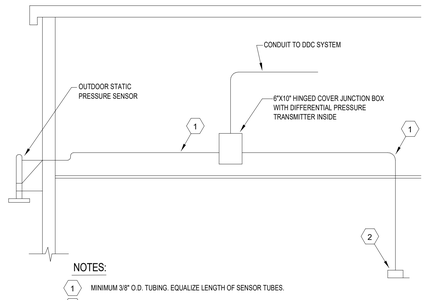


2 PIPE HANGERS (6" AND SMALLER)
NO SCALE



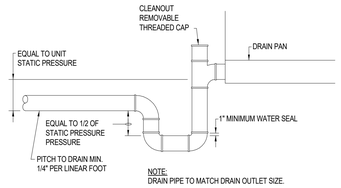
1. ALL LOADS IN EXCESS OF 100 LBS MAY ONLY BE HUNG FROM THE STEEL JOISTS AT THE LOCATIONS INDICATED WITH A CHECK MARK.
2. LOADS IN EXCESS OF 100 LBS ARE NOT TO BE HUNG FROM THE CROSS-HATCHED REGIONS UNLESS ADDITIONAL WEB REINFORCING MEMBERS ARE INSTALLED PER THE STRUCTURAL DRAWINGS.
3. THIS SECTION APPLIES TO LOADS HUNG FROM BOTH NEW JOISTS AND FROM EXISTING JOISTS.
4. SPACE HANGERS OUT SO THAT NOT ALL HANGERS ARE ATTACHED TO THE SAME JOIST.

ACCEPTABLE LOCATION TO HANG LOADS FROM STEEL JOISTS
3
NO SCALE



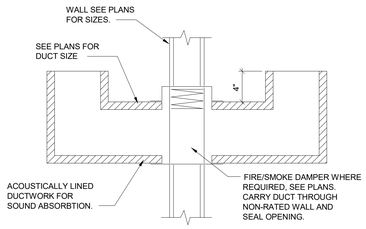
NOTES:
1. MINIMUM 3/8" O.D. TUBING. EQUALIZE LENGTH OF SENSOR TUBES.
2. TERMINATE TUBING IN AN EMPTY THERMOSTAT COVER. LOCATED AS SHOWN ON THE DRAWINGS.

4 BUILDING STATIC PRESSURE SENSOR DETAIL
NO SCALE

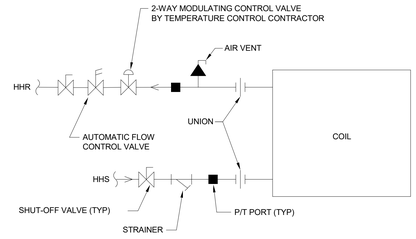


NOTE:
DRAIN PIPE TO MATCH DRAIN OUTLET SIZE.

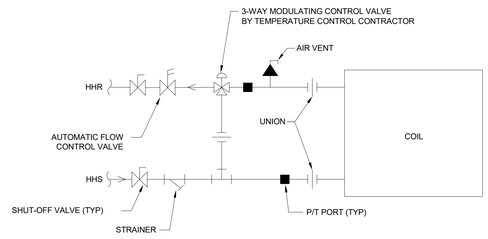
5 CONDENSATE TRAP PIPING DETAIL
(DRAW THROUGH CONFIGURATION) SCALE: NONE



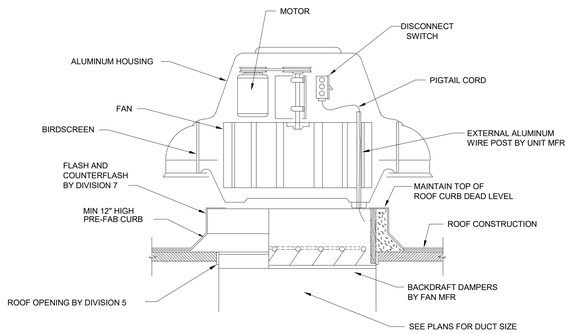
6 RETURN AIR SOUND TRAP DETAIL
NO SCALE



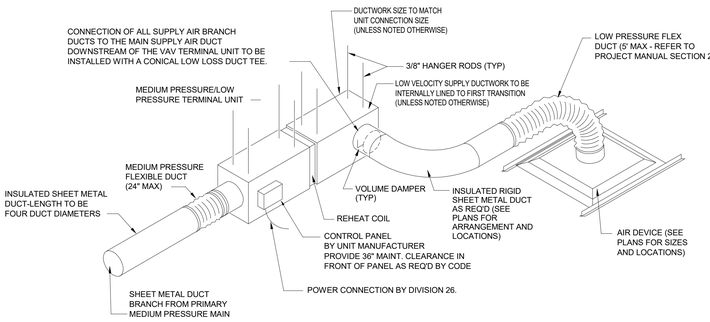
TERMINAL UNIT HOT WATER (TWO-WAY VALVE) PIPING DETAIL
7
NO SCALE



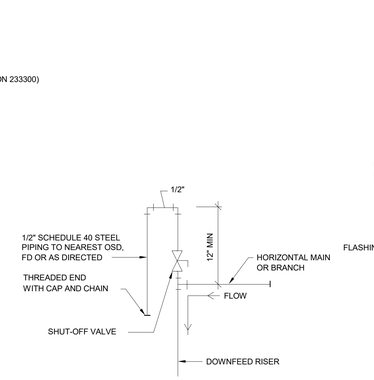
8 TERMINAL UNIT HOT WATER (THREE-WAY VALVE) PIPING DETAIL
(VAV-109) NO SCALE



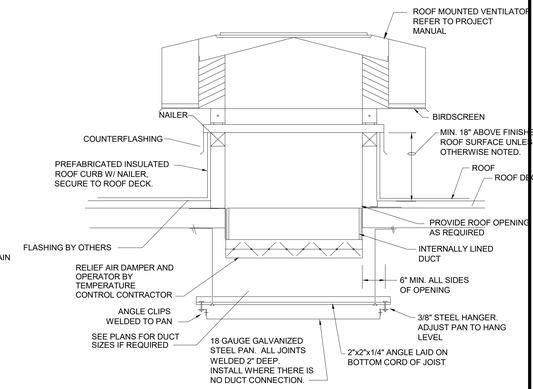
9 ROOF-MOUNTED EXHAUST FAN INSTALLATION DETAIL
NO SCALE



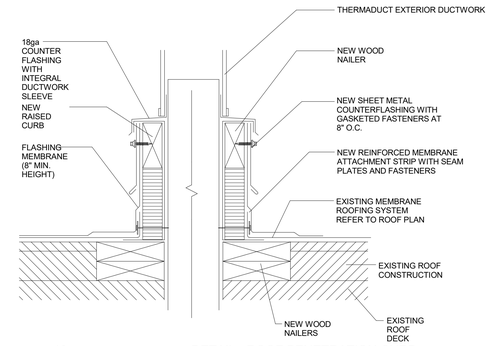
10 TERMINAL REHEAT UNIT INSTALLATION DETAIL
NO SCALE



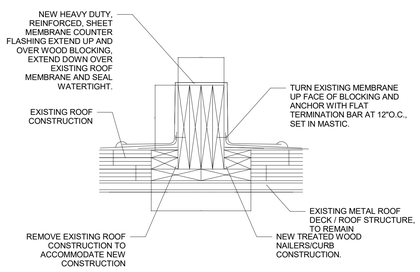
11 MANUAL AIR VENT DIAGRAM
NO SCALE



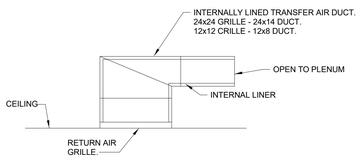
12 RELIEF AIR HOOD INSTALLATION DETAIL
(RV-LO1, RV-L02) NO SCALE



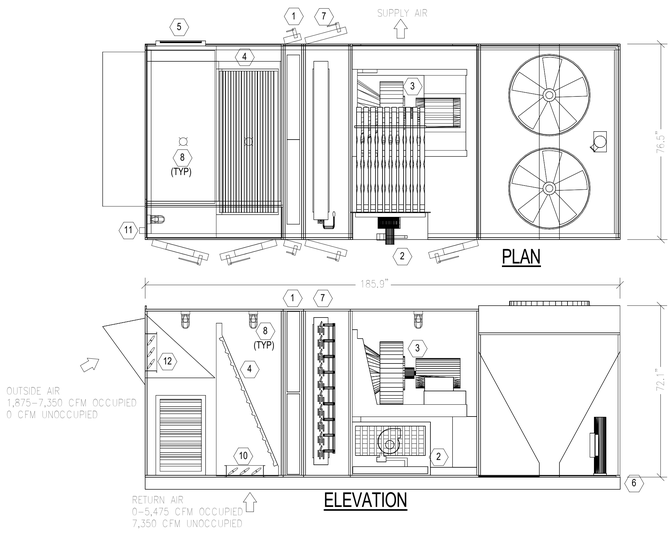
13 DETAIL - ROOF PENETRATION CURB
REFER TO N.R.C.A. DETAIL TS-12S N.T.S.



14 DETAIL - SUPPORT CURB
N.T.S.



15 GRILLE WITH SOUND BOOT DETAIL
NO SCALE



16 RTU-2
NO SCALE

AIR HANDLING UNIT NOTES:

1. FILTER (MERV 8)
2. GAS FIRED HEAT EXCHANGER
3. SUPPLY FAN(S)
4. ECONOMIZER DAMPER
5. EXHAUST FAN(S)
6. BASE RAIL
7. DX COOLING COIL
8. SERVICE LIGHT (TYP)
9. CONDENSATE DRAIN
10. FACTORY MOUNTED RETURN AIR CONTROL DAMPER(S) (DAMPER OPERATORS BY THE TCC CONTRACTOR)
11. LIGHT SWITCH/CONVENIENCE OUTLET
12. FACTORY MOUNTED OUTSIDE AIR CONTROL DAMPER(S) (DAMPER OPERATORS BY THE TCC CONTRACTOR)

REFER TO PROJECT MANUAL SECTION 230993 FOR UNIT SEQUENCES OF OPERATIONS.

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CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK E. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 9.04.2026

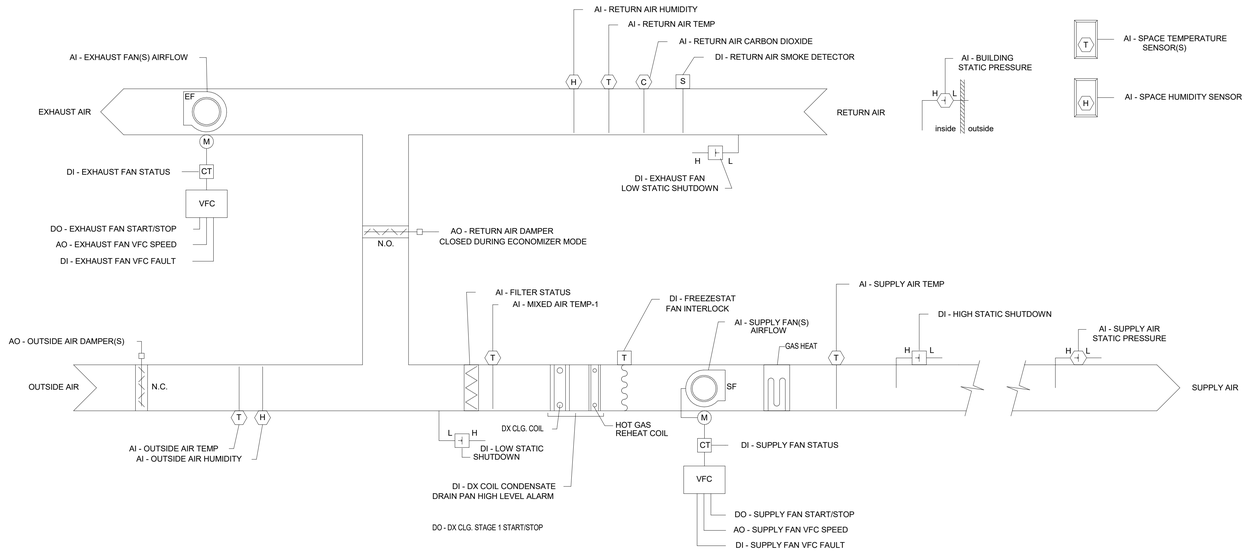
REV. NO.	DESCRIPTION	DATE

MECHANICAL DETAILS

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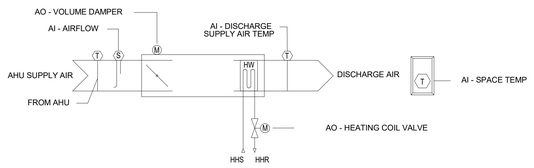
AIR HANDLING UNIT							
INPUT/OUTPUT SUMMARY TABLE							
POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
MIXED AIR TEMP-1	X				X		X
SUPPLY AIR TEMP	X				X		X
RETURN AIR CARBON DIOXIDE	X				X	X	X
RETURN AIR TEMP	X				X		X
RETURN AIR HUMIDITY	X				X		X
SUPPLY AIR STATIC PRESSURE	X				X	X	X
SPACE HUMIDITY SENSOR	X				X		X
SPACE TEMPERATURE SENSOR(S)	X				X		X
DX COOLING STAGE 1 START/STOP				X	X		X
FILTER STATUS	X					X	X
OUTDOOR AIR HUMIDITY	X				X		X
BUILDING STATIC PRESSURE	X				X		X
OUTDOOR AIR TEMPERATURE	X				X		X
SUPPLY FAN(S) VFC SPEED		X			X	X	X
EXHAUST FAN VFC SPEED		X			X	X	X
OUTSIDE AIR DAMPER(S)		X			X		X
RETURN AIR DAMPER		X			X		X
SUPPLY FAN STATUS			X		X	X	X
EXHAUST FAN STATUS			X		X	X	X
SUPPLY FAN VFC FAULT			X			X	X
EXHAUST FAN VFC FAULT			X			X	X
FREEZESTAT - FAN INTERLOCK			X			X	X
SUPPLY FAN START/STOP				X	X		X
EXHAUST FAN START/STOP				X	X		X
HIGH AND LOW STATIC SHUTDOWNS			X			X	X
RETURN AIR SMOKE DETECTOR			X			X	X
SUPPLY FAN(S) AIRFLOW	X				X		X
EXHAUST FAN(S) AIRFLOW	X				X		X
DX COIL CONDENSATE DRAIN PAN HIGH LEVEL ALARM			X			X	X



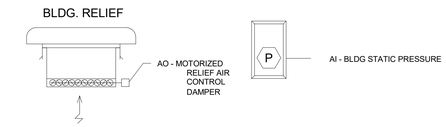
AIR HANDLING UNIT CONTROL SCHEMATICS AND INPUT/OUTPUT SUMMARY TABLE TO BE USED IN CONJUNCTION WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS. SUBMITTALS TO BE APPROVED BEFORE START OF INSTALLATION.

1 ROOFTOP AIR HANDLING UNIT (RTU-2) SCALE: NTS

INPUT/OUTPUT SUMMARY TABLE							
TERMINAL UNITS							
POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
VAV TERMINAL BOX							
SPACE TEMPERATURE	X				X		X
DISCHARGE SUPPLY AIR TEMP	X				X		X
AIRFLOW	X				X		X
VOLUME DAMPER		X			X		X
HEATING COIL VALVE		X			X		X
AHU SUPPLY AIR TEMP	X						X
SPACE OVERRIDE			X				X
CABINET/PROPELLER UNIT HEATERS (HOT WATER AND ELECTRIC)							
FAN START/STOP				X			X
SPACE TEMPERATURE	X				X		X
GLOBAL POINTS							
OUTSIDE AIR TEMPERATURE	X				X		X
OUTSIDE AIR HUMIDITY	X				X		X
TECHNOLOGY ROOM TEMPERATURE(S)	X				X	X	X
ROOFTOP VENTILATORS AND WALL LOUVERS							
BUILDING PRESSURE	X				X		X
RELIEF DAMPER		X			X		X
EXHAUST FANS CONTROLLED BY REVERSE ACTING THERMOSTAT							
FAN STATUS			X			X	X
FAN START/STOP				X			X
SPACE TEMPERATURE	X				X		X
EXHAUST FANS CONTROLLED BY TIME OF DAY SCHEDULE							
FAN STATUS			X			X	X
FAN START/STOP				X			X
EXHAUST FANS CONTROLLED BY DIVISION 26 CONTRACTOR (TIMER SWITCH)							
FAN STATUS			X			X	X
FAN START/STOP				X			X
CONTROL BY DIVISION 26			X				X



VAV (REHEAT) BOX DETAIL
NO SCALE



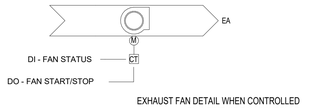
EXISTING ROOFTOP VENTILATOR (BLDG PRESSURE CONTROL)
NO SCALE

CONTROL SCHEMATICS AND INPUT/OUTPUT SUMMARY TABLE TO BE USED IN CONJUNCTION WITH SPECIFICATIONS AND CONSTRUCTION DOCUMENTS.
NOTE: NOT ALL CONTROL REQUIREMENTS ARE REPRESENTED IN SCHEMATICS.

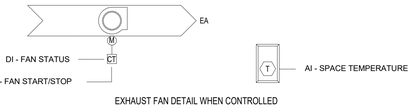
2-WAY AND 3-WAY CONTROL VALVES TO MATCH EXISTING CONFIGURATIONS.



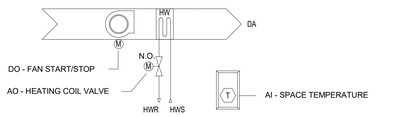
EXHAUST FAN DETAIL WHEN CONTROLLED BY THE DIVISION 26 CONTRACTOR (TIMER SWITCH)
NO SCALE



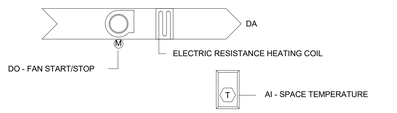
EXHAUST FAN DETAIL WHEN CONTROLLED BY A TIME OF DAY SCHEDULE
NO SCALE



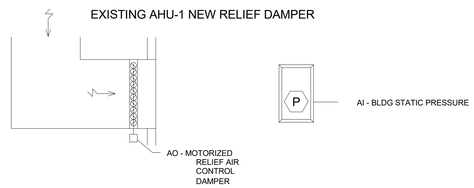
EXHAUST FAN DETAIL WHEN CONTROLLED BY A REVERSE ACTING THERMOSTAT
NO SCALE



EXISTING CABINET/PROPELLER UNIT HEATER DETAIL (HOT WATER)
NO SCALE



CABINET/PROPELLER UNIT HEATER DETAIL (ELECTRIC)
NO SCALE



EXISTING AHU-1 PRESSURE CONTROL
NO SCALE

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DRAWN BY: ECG
PROJECT NUMBER: FH224102.01/WSU-231035
PROJECT ISSUE DATE: 9.04.2026

REV. NO.	DESCRIPTION	DATE

MECHANICAL SCHEMATICS

M5.04

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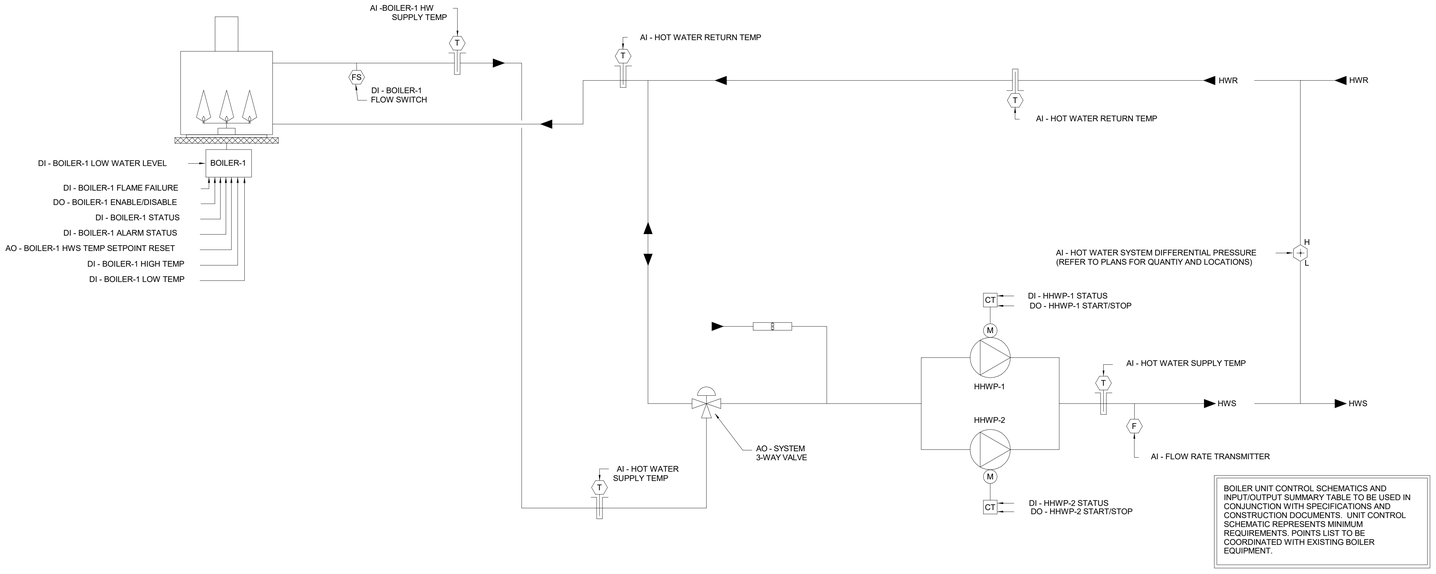
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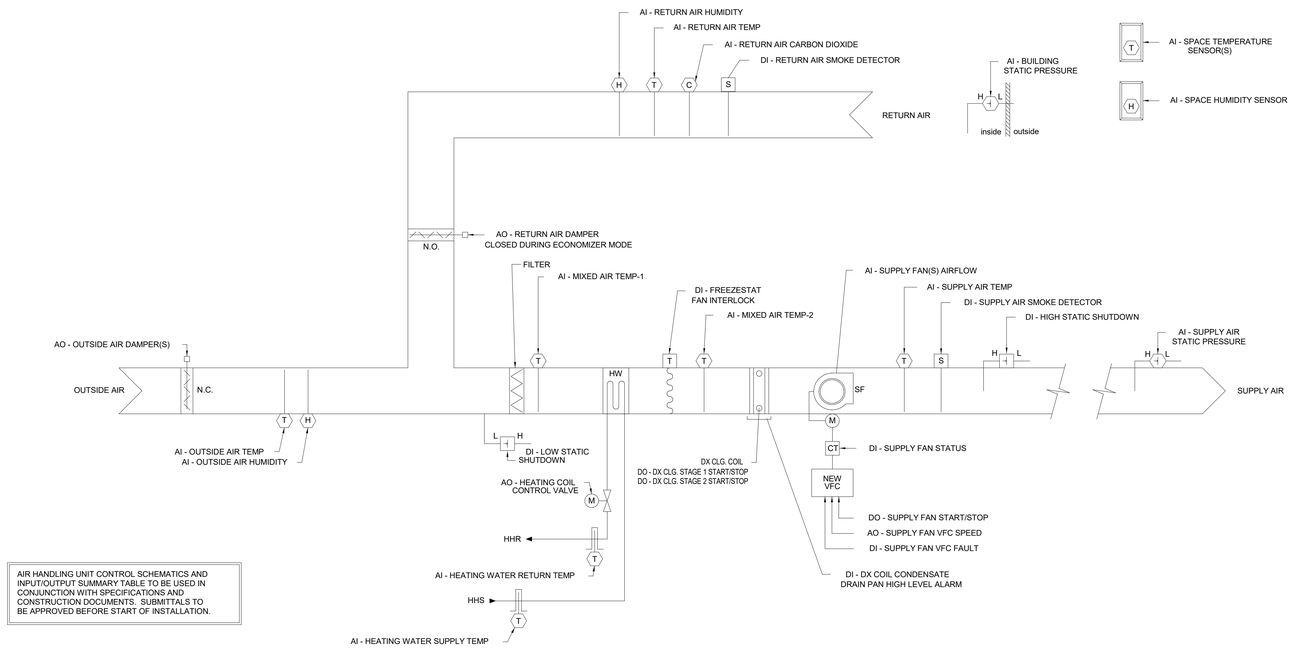


EXISTING HEATING WATER CONTROL SCHEMATIC WITH NEW PUMPS

NO SCALE

INPUT/OUTPUT SUMMARY TABLE							
PROJECT: WRIGHT STATE UNIVERSITY - LAKE CAMPUS CELINA, OHIO	HEATING WATER PLANT						
POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
HOT WATER SUPPLY TEMP	X				X		X
HOT WATER RETURN TEMP	X				X		X
HOT WATER FLOW TRANSMITTER	X				X	X	X
HOT WATER SYSTEM DIFFERENTIAL PRESSURE	X				X		X
BLR-1 HW SUPPLY TEMP	X				X		X
MAKEUP WATER METER	X				X		X
BLR-1 HIGH TEMP	X					X	
BLR-1 LOW TEMP	X					X	
BLR-1 HWS TEMP SETPOINT RESET		X			X		X
BLR-1 STATUS			X		X	X	X
HHWP-1 STATUS			X		X	X	X
HHWP-2 STATUS			X		X	X	X
BLR-1 FLOW SWITCH			X		X	X	X
BLR-1 ALARM STATUS			X		X	X	X
HHWP-1 VFC FAULT			X		X	X	X
HHWP-2 VFC FAULT			X		X	X	X
BLR-1 ENABLE/DISABLE				X			X
HHWP-1 START/STOP				X			
HHWP-2 START/STOP				X			
BLR-1 FLAME FAILURE						X	
BLR-1 LOW WATER LEVEL						X	
BOILER ROOM CARBON MONOXIDE						X	
OUTSIDE AIR TEMPERATURE	X				X		X

INPUT/OUTPUT SUMMARY TABLE							
PROJECT: WRIGHT STATE UNIVERSITY - LAKE CAMPUS CELINA, OHIO	VARIABLE AIR VOLUME (VAV) AIR HANDLING UNIT						
POINT DESCRIPTION	AI	AO	DI	DO	TREND	ALARM	GRAPHIC
MIXED AIR TEMP-1	X				X		X
MIXED AIR TEMP-2	X				X		X
SUPPLY AIR TEMP	X				X		X
RETURN AIR CARBON DIOXIDE	X				X	X	X
RETURN AIR TEMP	X				X		X
RETURN AIR HUMIDITY	X				X		X
SUPPLY AIR STATIC PRESSURE	X				X	X	X
SPACE HUMIDITY SENSOR	X				X		X
OUTSIDE AIR FLOW QUANTITY	X				X		X
HEATING WATER SUPPLY TEMP	X				X	X	X
HEATING WATER RETURN TEMP	X				X		X
OUTDOOR AIR HUMIDITY	X				X		X
BUILDING STATIC PRESSURE	X				X		X
OUTDOOR AIR TEMPERATURE	X				X		X
SUPPLY FAN VFC SPEED		X			X	X	X
HEATING COIL CONTROL VALVE		X			X		X
OUTSIDE AIR DAMPER(S)		X			X		X
RETURN AIR DAMPER		X			X		X
SUPPLY FAN STATUS			X		X	X	X
SUPPLY FAN VFC FAULT			X			X	X
FREEZESTAT - FAN INTERLOCK			X			X	X
SUPPLY FAN START/STOP				X	X		X
HIGH AND LOW STATIC SHUTDOWNS			X			X	X
SUPPLY AIR SMOKE DETECTOR			X			X	X
RETURN AIR SMOKE DETECTOR			X			X	X
SUPPLY FAN(S) AIRFLOW	X				X		X
DX COOLING STAGE 1 START/STOP				X	X		X
DX COOLING STAGE 2 START/STOP				X	X		X



1 AIR HANDLING UNIT
(EXISTING AHU-1) SCALE: NTS

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK Z. HOPE E-79009 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: ECG

PROJECT NUMBER: FH224102.01/WSU-231035

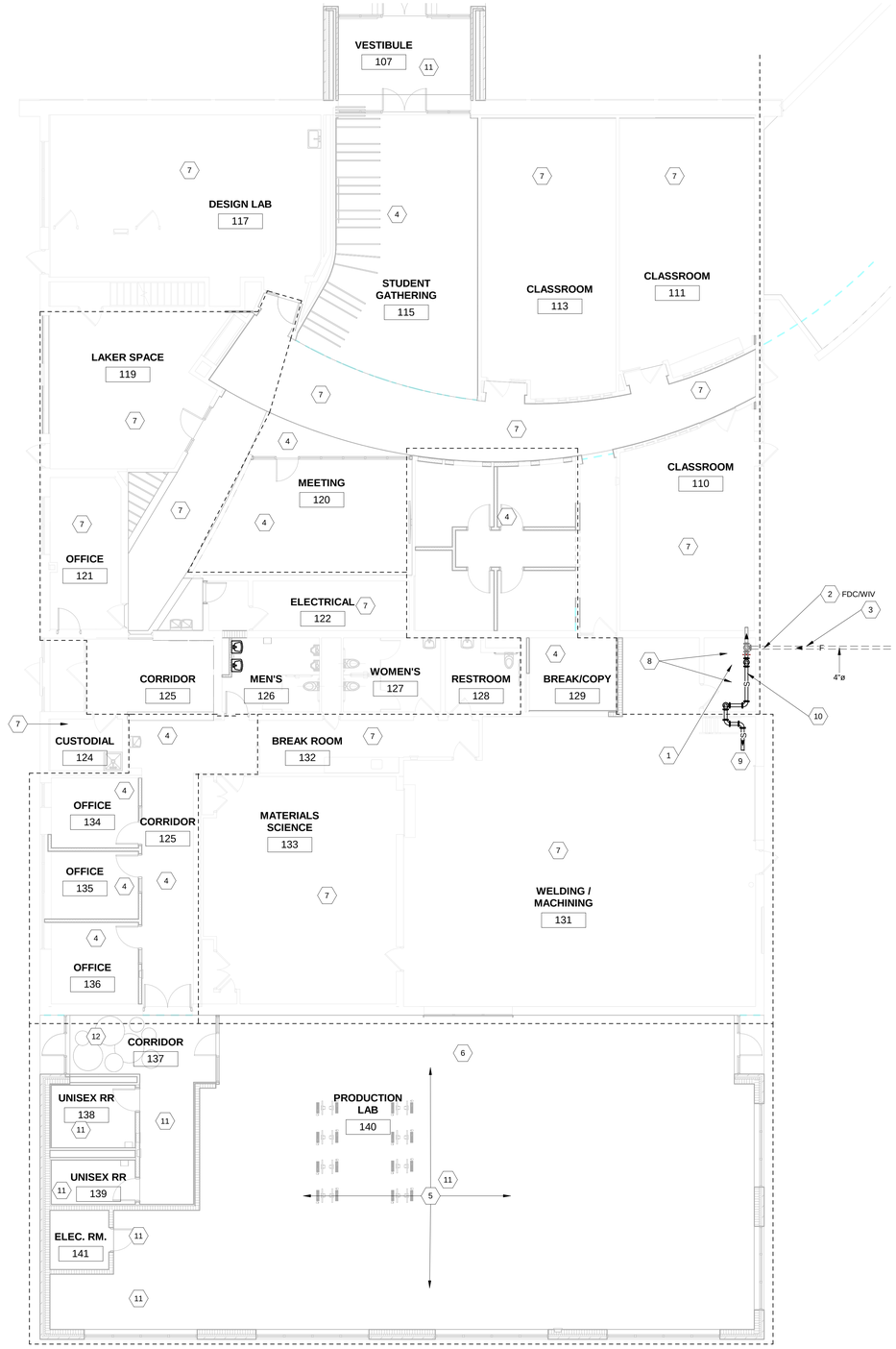
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MECHANICAL SCHEMATICS

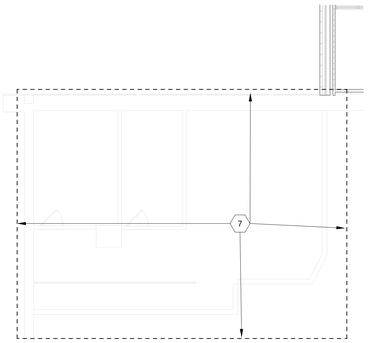
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1 FIRST FLOOR-FIRE PROTECTION

SCALE: 1/8" = 1'-0"



3 SECOND FLOOR-FIRE PROTECTION

SCALE: 1/8" = 1'-0"

CONTRACTOR SPRINKLER COLOR NOTE:

SPRINKLERS LOCATED IN CEILING AREAS WITH COLOR FINISHES OTHER THAN WHITE, PROVIDE BLACK FINISH SPRINKLERS IN AREAS WITH BLACK FINISHES AS NOTED ON THE ARCHITECTURAL CEILING PLANS.

FIRE PROTECTION GENERAL NOTES

A. ALL FIRE PROTECTION WORK PERFORMED ON THIS PROJECT SHALL BE SIZED PER HYDRAULIC CALCULATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH ALL DUCTWORK, RACEWAYS, CABLE TRAYS CONDUITS, STRUCTURAL MEMBERS, PIPING AND ARCHITECTURAL CEILING HEIGHTS AND DESIGN INTENT. ALL FIRE PROTECTION WORK SHALL BE DONE IN ACCORDANCE WITH NFPA 13, ALL APPLICABLE STATE AND LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION TO DELIVER A PENALTY FREE SYSTEM.
B. REFER TO DIVISION 21 FOR ALL AUTOMATIC WET PIPE SPRINKLER SYSTEM REQUIREMENTS.
C. ALL SPRINKLER PIPING SYSTEM INSTALLATION SHALL BE COORDINATED WITH OTHER TRADES AS IT RELATES TO ACCESS AND SERVICEABILITY OF THAT TRADES EQUIPMENT (I.E.: MECHANICAL UNITS, LIGHTS...) ANY SPRINKLER SYSTEM PIPING DETERMINED BY THE ENGINEER TO BE IN CONFLICT WITH OTHER TRADES WILL BE RELOCATED WITH ALL COST TO BE BORNE BY THE FIRE PROTECTION CONTRACTOR.
D. REFER TO ARCHITECTURAL BUILDING SECTIONS, WALL SECTIONS AND STRUCTURAL DRAWINGS FOR STRUCTURAL STEEL ELEVATIONS AND SPACE AVAILABLE ABOVE THE FINISHED CEILING. PROVIDE ALL APPROPRIATE SUPPORT AND BRACING TO THE BUILDING STRUCTURE AS REQUIRED FOR INSTALLATION OF PIPING WITHIN THE GIVEN CONDITIONS.
E. THE CONTRACTOR SHALL ENSURE THAT NO PIPING OR EQUIPMENT WILL BE INSTALLED WITHIN 12'-0" OF ANY EXTERIOR BUILDING WALL OPENING. OPENINGS SHALL INCLUDE BUT SHALL NOT BE LIMITED TO RELIEF AIR, LOUVERS... TO PREVENT FREEZING OF PIPING AND EQUIPMENT. PIPING INSTALLED WITHIN THIS SPECIAL ZONE AND ANY DAMAGE RESULTING FROM THIS INSTALLATION WILL BE COMPLETELY RESTORED AND ALL ASSOCIATED COST BORNE BY THIS CONTRACTOR.
F. FIRE RISER PRESSURE 2023 VALUES - 90 PSIG STATIC, 57 RESIDUAL.
G. ANY FIRE WATCHES REQUIRED BY THE NATURE OF THE FIRE SERVICE REVISION SCOPE WILL BE CONSIDERED CONTRACTOR SCOPE. COST AND STAFFING REQUIRED SHALL BE BORNE BY CONTRACTOR.

CODED NOTES

1 EXISTING FIRE RISER AND SPRINKLER ZONE. REVISE SPRINKLER ZONE AND ASSOCIATED SERVICE EQUIPMENT TO ACCOMMODATE NEW SPRINKLER ZONE INSTALLATION. COORDINATE PHASING OF REMOVAL TO LIMIT SYSTEM DOWNTIME. EXTEND NEW SPRINKLER ZONE PIPING FROM NEW FIRE RISER AND CONNECT TO EXISTING SPRINKLER MAIN PIPING AT UNDERSIDE OF STRUCTURE.

2 EXISTING FDC AND WALL INDICATOR VALVE TO REMAIN.

3 EXISTING FIRE SERVICE PIPING TO REMAIN.

4 RENOVATION AREA OF EXISTING WET SPRINKLER SYSTEM. MODIFY EXISTING PIPING IN AREA TO ACCOMMODATE NEW CEILING LAYOUT. PROVIDE NEW SPRINKLERS AND ARM-OVERS.

5 ORDINARY HAZARD 1 SPACE.

6 ROLL BACK OVERHEAD DOOR. PROVIDE SPRINKLER BELOW TRACK TO ACCOMMODATE SPRINKLER OBSTRUCTION.

7 EXISTING AREA AND WET SPRINKLER SYSTEM TO REMAIN.

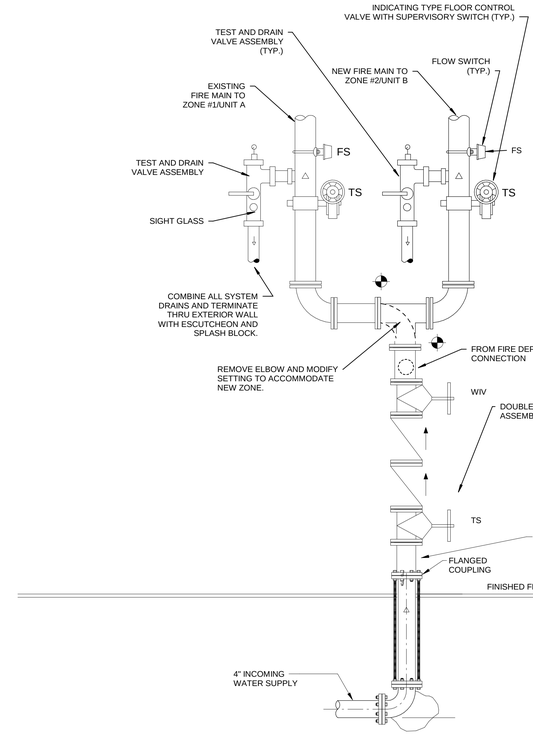
8 FIRE SERVICE REVISIONS AND SPRINKLER ZONES PER DETAIL 2, THIS SHEET.

9 EXTEND SPRINKLER MAIN TO FULLY SPRINKLER NEW ADDITION.

10 EXTEND SPRINKLER DRAINS THROUGH WALL. PROVIDE PIPE ESCUTCHEON AT PENETRATIONS. SEAL WALL PENETRATIONS WEATHER TIGHT.

11 NEW ADDITION AREA. EXTEND NEW SPRINKLER MAIN PIPING AND FULLY SPRINKLER SPACE.

12 CLOUD CEILING AREA. PROVIDE SUPPLEMENTAL SPRINKLERS IN CLOUDS WHERE TOTAL OBSTRUCTION DIMENSIONS EXCEED NFPA 13 LIMITS FOR ALLOWABLE SPRINKLER OBSTRUCTIONS.



2 SUPERVISED ZONE CONTROL DETAIL

SCALE: 1/8" = 1'-0"

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK Z. HOPE E-79009 REGISTERED PROFESSIONAL ENGINEER

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FIRST FLOOR FIRE SUPPRESSION PLAN

FP101

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NOTE:
ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT

A	COMPRESSED AIR
AD	AREA DRAIN
AFF	ABOVE FINISHED FLOOR
AV	ACID-VENT
AW	ACID-WASTE
BLDG	BUILDING
BT	BATH TUB
CD	CONSENSATE DRAIN
CO	CLEANOUT
CUSP	CUSPIDOR
DF	DRINKING FOUNTAIN
DIA/Ø	DIAMETER
DWG	DRAWING
EWC	ELECTRIC WATER COOLER
FD	FLOOR DRAIN
FHC	FIRE HOSE CABINET
FLR	FLOOR
G	GAS (NATURAL)
GPM	GALLONS PER MINUTE
GCO	GRADE CLEAN OUT
INV	INVERT
L	LAVATORY
MFR	MANUFACTURER
MH	MANHOLE
NIC	NOT IN CONTRACT
NO/#	NUMBER
NTS	NOT TO SCALE
OD	OVERFLOW DRAIN
OSD	OPEN SITE DRAIN
OFD	OVER FLOW DRAIN
PIV	POST INDICATOR VALVE
PRV	PRESSURE REDUCING VALVE
PSI	POUNDS PER SQUARE INCH
PVC	POLYVINYL CHLORIDE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REQ'D	REQUIRED
RM	ROOM
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SAN	SANITARY
SH	SHOWER
SHT	SHEET
SK	SINK
STM	STORM
UR	URINAL
V	VENT
VA	VALVE
VTR	VENT THRU ROOF
W/	WITH
WC	WATER CLOSET
WH	WALL HYDRANT
W/O	WITHOUT

COLD WATER SUPPLY
SOFT COLD WATER (SCW)
HOT WATER SUPPLY
HOT WATER RETURN
VENT PIPING
SANITARY PIPING - ABOVE FLOOR
SANITARY PIPING - BELOW FLOOR
STORM PIPING - ABOVE FLOOR (ST)
STORM PIPING - BELOW FLOOR (ST)
FIRE PROTECTION PIPING (F)
ACID WASTE PIPING - ABOVE FLOOR (AW)
ACID WASTE PIPING - BELOW FLOOR (AW)
ACID VENT PIPING (AV)
NATURAL GAS (G)

BALANCING VALVE
VALVE
CHECK VALVE
BALANCING STATION (SEE DETAIL XX.X)
RISE UP (ELBOW)
RISE OR DROP
BRANCH-BOTTOM CONNECTION
BRANCH-TOP CONNECTION
INDICATES ELEVATION CHANGE OF PIPING SYSTEM
SOLENOID VALVE (SV)
BACKFLOW PREVENTER
PRESSURE REDUCING DOUBLE CHECK VALVE
UNION
STRAINER
WALL HYDRANT (WH)
HOSE BIBB (HB)
FLOOR CLEAN OUT (CO)
REDUCER
FLOW ARROW
GAS COCK
GAS REGULATOR (G)
WATER METER (W)
CONNECT TO EXISTING
ROOF DRAIN
EXPANSION JOINT
CLEANOUT (CO)
FLOOR DRAIN
SHOWER HEAD
CODED NOTE (1)
TYPICAL SANITARY AND STORM DROP IN 45 DEGREE CONNNECTION

GENERAL NOTES

1. THE PLUMBING CONTRACTOR SHALL PROVIDE SHUTOFF VALVES FOR ALL INDIVIDUAL PLUMBING FIXTURES AND EQUIPMENT, ALL BRANCH PIPING SERVING PLUMBING FIXTURE BANKS, SECTIONAL OR SUB MAIN PIPING ALONG THE ROUTING OF THE MAIN DOMESTIC SERVICE THRU THE BUILDING FOR BROAD AND LOCAL CONTROL OF THE MAIN DOMESTIC WATER SERVICE SYSTEM.
2. THE PLUMBING CONTRACTOR SHALL PROVIDE HOT WATER RETURN PIPING AND BALANCING STATIONS TO ONE OR MORE FIXTURES WHEN DISTANCE FROM THE DOMESTIC HOT WATER MAIN EXCEEDS 10'-0" TOTAL DEVELOPED LENGTH. ALL HOT WATER RETURN PIPING THRU THE BUILDING SHALL INCLUDE THE CONNECTION TO THE HOT WATER RETURN MAIN. ROUTING IS TO BE CONTINUOUS TO THE MOST REMOTE HOT WATER FIXTURE FOR A COMPLETE HOT WATER CIRCULATION.
3. COORDINATE ALL COLUMN PAD ELEVATIONS, INTERIOR AND EXTERIOR FOUNDATION FOOTINGS WHICH REQUIRE PIPE SLEEVES OR LOWERING TO ACCOMMODATE PLUMBING PIPE RISERS AND FOUNDATION WALL SLEEVES PRIOR TO START OF WORK.
4. THE PLUMBING CONTRACTOR SHALL OBTAIN A COPY OF DIVISION 2 SITE CIVIL DRAWINGS TO VERIFY EXACT LOCATION OF PLUMBING SERVICES EXITING THE BUILDING TO DETERMINE EXACT POINT OF INTERCONNECTION WITH EXTERIOR SERVICES PRIOR TO START OF WORK. ANY CONFLICT ASSOCIATED WITH LACK OF COORDINATION WILL BE CORRECTED BY THE CONTRACTORS AT NO COST TO THE OWNER.
5. ROOF DRAINS AND OVERFLOW DRAINS BY THE ROOFING CONTRACTOR (AS LISTED IN DIVISION 7). THE PLUMBING CONTRACTOR SHALL FINAL CONNECT TO DRAINS AND EXTEND TO THE EXTERIO STORM WATER SYSTEM.
6. PROVIDE ALL CONDENSATE DRAIN PIPING, ACCESSORIES AND FINAL CONNECT TO EQUIPMENT. EXTEND CONDENSATE PIPING TO FLOOR DRAIN.
7. COORDINATE ALL PIPING ROUTINGS WITH ELECTRICAL EQUIPMENT, PANELS, SWITCH GEAR.... FOR COMPLIANCE WITH NFPA STANDARDS, ALL APPLICABLE STATE AND LOCAL CODES AND THE AUTHORITY HAVING JURISDICTION
8. ALL GAS SHUT-OFF VALVES SHALL BE LOCATED IN AN ACCESSIBLE LOCATION AND IN ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES. GAS VALVES SHALL NOT BE LOCATED ABOVE CEILINGS.
9. SUPPORT PIPING FROM OPEN WEB STEEL JOISTS FROM HANGERS CONNECTED TO EITHER TOP OR BOTTOM CHORDS WITHIN 3 INCHES OF CENTER OF CHORD PANEL POINTS. (INTERSECTION OF DIAGONAL OR VERTICAL CHORD WITH TOP OR BOTTOM CHORD).
10. THE CONTRACTOR SHALL PROVIDE CONCRETE PADS FOR FLOOR MOUNTED PLUMBING EQUIPMENT. PADS SHALL BE 4 INCHES HIGH MINIMUM, UNLESS OTHERWISE INDICATED ON DRAWINGS. EDGES SHALL BE CHAMFERED ON INCH. FACES SHALL BE FREE OF VOIDS AND RUBBED SMOOTH WITH CARBORUNDUM BLOCK AFTER STRIPPING OF FORMS. TOPS OF PADS SHALL BE DEAD LEVEL. PROVIDE SHORT DOWEL RODS INTO FLOOR FOR LATERAL STABILITY AND ANCHORAGE.
11. INSTALLATION OF PLUMBING EQUIPMENT, VALVES, ETC SHALL BE ACCESSIBLE FOR OPERATION AND MAINTENANCE WITHIN NORMAL BUILDING MAINTENANCE PROCEDURES.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

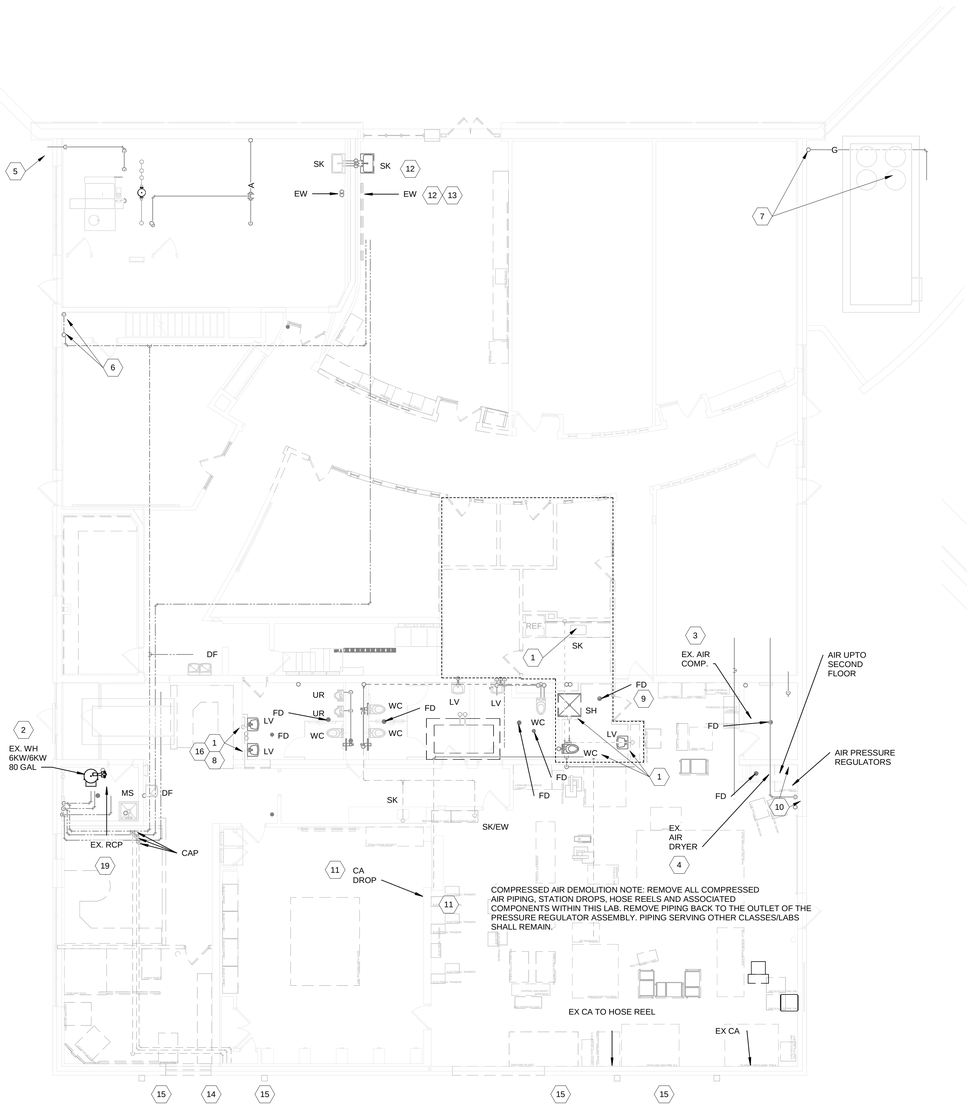
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SYMBOLS & ABBREVIATIONS

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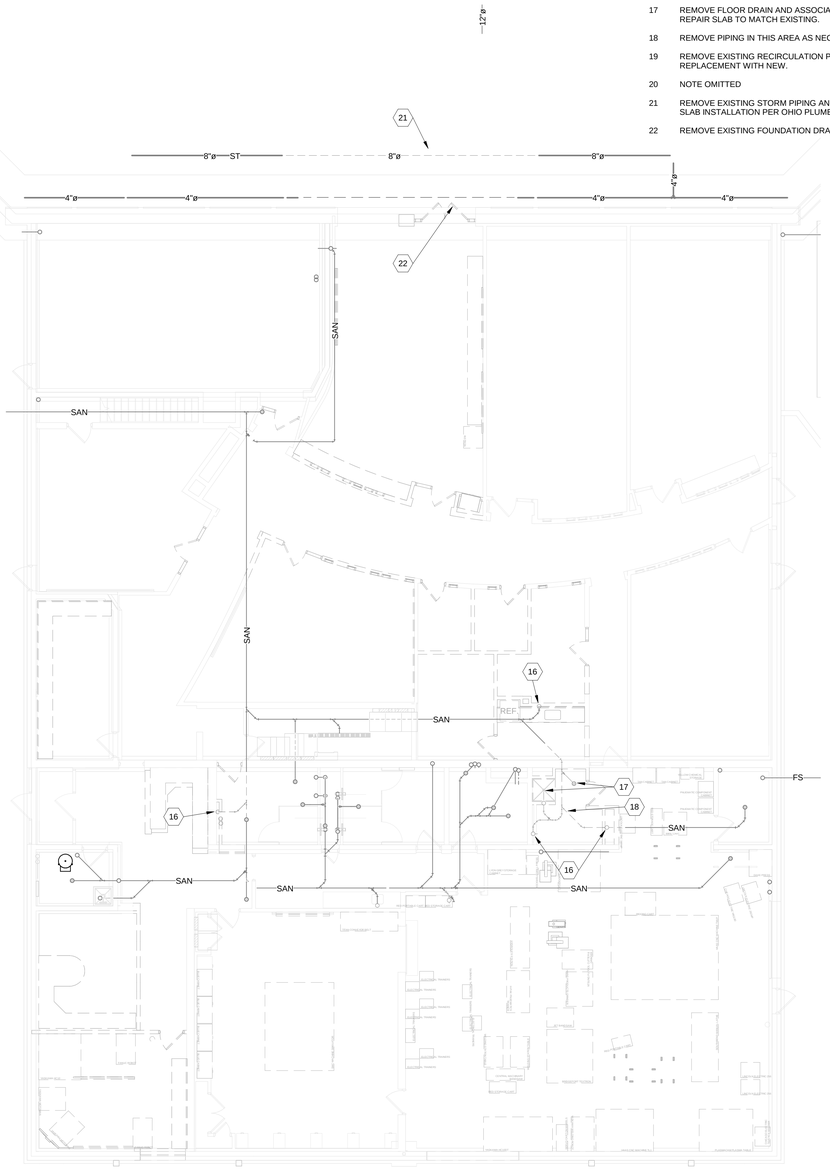
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WELDING GAS DEMOLITION NOTE: REMOVE ALL WELDING GAS PIPING FROM OUTLET OF TANK REGULATOR OUT TO ALL STATION DROPS.

1 FIRST FLOOR PLUMBING PLAN DEMO

SCALE: 1/8" = 1'-0"



2 FOUNDATION PLAN DEMO

SCALE: 1/8" = 1'-0"

CODED NOTES

1. REMOVE PLUMBING FIXTURE AND ASSOCIATED SUPPLY AND WASTE ROUGH INS BACK TO ACTIVE MAINS.
2. EXISTING WATER HEATER TO REMAIN, SEE NEW WORK PLANS AND DETAIL FOR MODIFICATION SCOPE..
3. EXISTING AIR COMPRESSOR TO REMAIN.
4. EXISTING AIR DRYER TO REMAIN.
5. NATURAL GAS METER REGULATOR SETTING. COORDINATE SYSTEM SHUTDOWNS WITH GAS SUPPLIER.
6. EXISTING 2" DOMESTIC WATER SERVICE TO REMAIN.
7. EXISTING AIR HANDLING UNIT GAS SUPPLY TO REMAIN.
8. REMOVE ABOVE GROUND SANITARY, WASTE AND WATER PIPING, INCLUDING FIXTURE CARRIERS AS REQUIRED TO RECONFIGURE PIPE SERVICES TO ACCOMMODATE NEW FIXTURES AND FIXTURE LAYOUT.
9. REMOVE FLOOR DRAIN, CAP PIPING BELOW FLOOR SLAB, REPAIR FLOOR SLAB FLUSH TO EXISTING FLOOR SLAB.
10. EXISTING COMPRESSED AIR PIPING MANIFOLDED ALONG PORTION OF WALL TO REMAIN. NEW WORK SCOPE TO EXTEND PIPING TIGHT TO SIDE OF MEZZANINE ACCESS STAIR.
11. REMOVE COMPRESSED AIR PIPING DROP AND ASSOCIATED PIPING BACK TO ACTIVE MAIN AND CAP.
12. REMOVE FIXTURE AND ROUGH-INS TO TERMINATE AT CONCEALED LOCATIONS. MAINTAIN OPERATIONAL STATUS OF FIXTURES IN ADJACENT ROOM WHICH ARE EXISTING TO REMAIN.
13. REMOVE EMERGENCY STOP PUSH BUTTON, ASSOCIATED WIRING AND SOLENOID VALVE AS NECESSARY TO REMOVE THE ACCESSORIES SERVING EMERGENCY DRENCH SHOWER ON THIS SIDE OF THE WALL. REMOVED COMPONENTS SHALL NOT IMPACT THE OPERATION OF THE EMERGENCY SHOWER OR EMERGENCY SHUT OFF OF SHOWER ON OPPOSITE SIDE OF WALL.
14. REMOVE HOSE REEL, WALL HYDRANT AND CAP PIPING AT ACTIVE WATER MAIN.
15. REMOVE UNDERGROUND STORM DRAINAGE PIPING FROM DOWNSPOUT TO ACTIVE STORM SEWER. REFER TO SITE UTILITY DRAWINGS.
16. REMOVE DRAINAGE PIPING TO BELOW FLOOR SLAB, CAP PIPING AND REPAIR SLAB TO MATCH EXISTING.
17. REMOVE FLOOR DRAIN AND ASSOCIATED PIPING TO BELOW FLOOR SLAB, CAP PIPING AND REPAIR SLAB TO MATCH EXISTING.
18. REMOVE PIPING IN THIS AREA AS NECESSARY TO ROUTE NEW DRAINAGE PIPING.
19. REMOVE EXISTING RECIRCULATION PUMP, EXISTING EXPANSION TANK AND T/P VALVE FOR REPLACEMENT WITH NEW.
20. NOTE OMITTED
21. REMOVE EXISTING STORM PIPING AND REPLACE WITH NEW PIPING LISTED FOR BELOW SLAB INSTALLATION PER OHIO PLUMBING CODE.
22. REMOVE EXISTING FOUNDATION DRAIN FOR REPLACEMENT WITH NEW IN PLACE.

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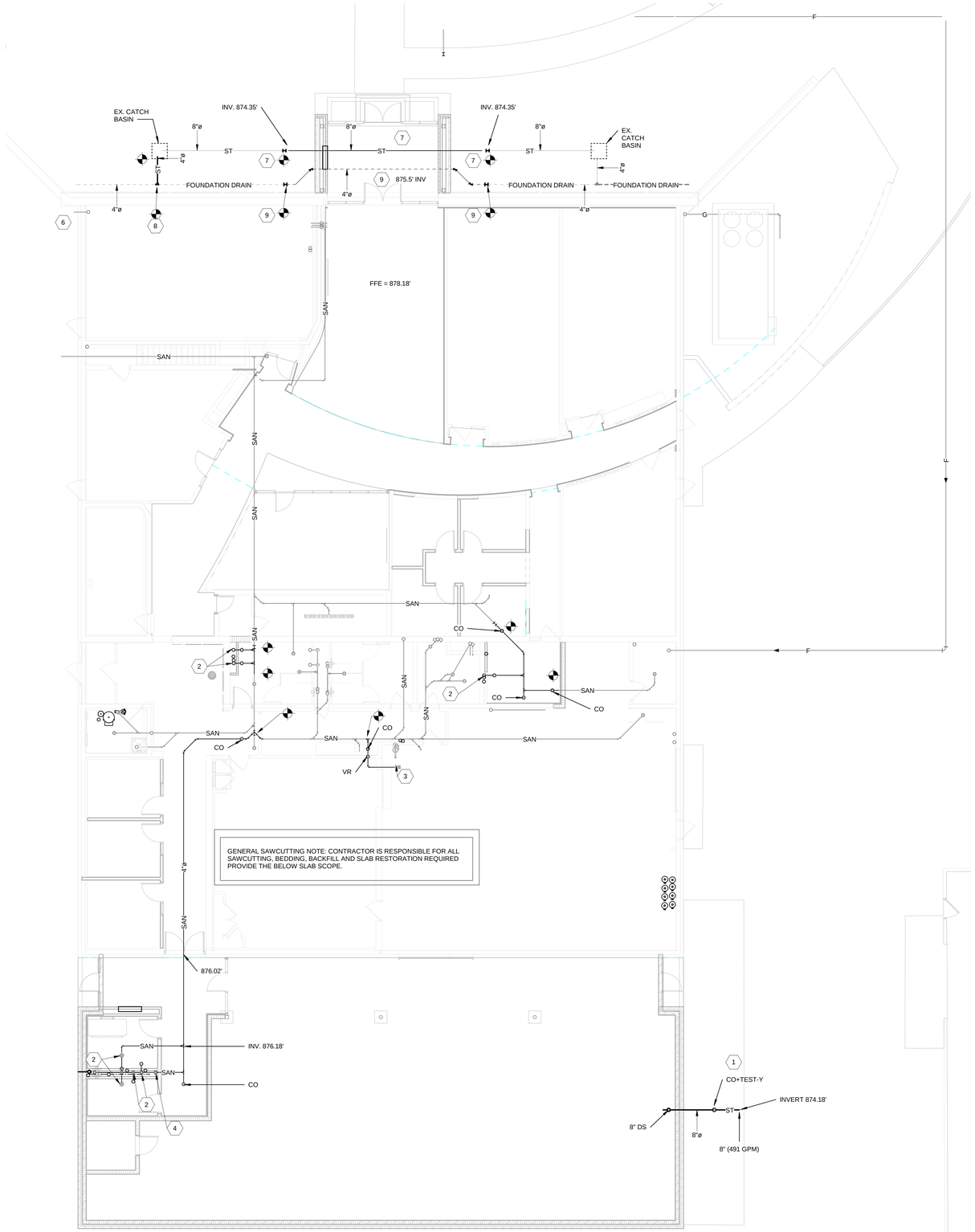
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FIRST FLOOR DEMOLITION PLAN

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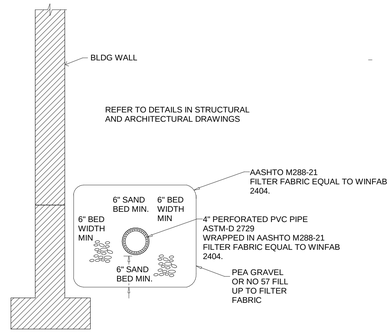


1 FOUNDATION PLUMBING PLAN - UNIT A

SCALE: 1/8" = 1'-0"

CODED NOTES

1. PROVIDE CLEANOUT, TEST-WYE AND CONNECT TO SITE UTILITY SCOPE. COORDINATE EXACT LOCATION AND INVERT, PROVIDE MATERIAL TRANSITION FITTINGS AS NEEDED AND MAKE FINAL CONNECTION.
2. 2" DRAIN FROM ABOVE.
3. 3" DRAIN FROM ABOVE.
4. 4" DRAIN FROM ABOVE.
5. EXISTING FIRE SERVICE. FIRE SERVICE TO BE REMOVED, COORDINATE NEW WORK EFFORTS TO ACCOMMODATE EXISTING FIRE SERVICE PIPING UNTIL SERVICE IS SCHEDULED FOR REMOVAL OR ABANDONMENT.
6. EXISTING GAS SERVICE PIPING TO REMAIN.
7. REMOVE AND REPLACE EXISTING STORM PIPING WITH NEW PIPING. PROVIDE MATERIAL ADAPTERS AND SLEEVE PIPING AT STRUCTURAL CROSSINGS.
8. CONNECT FOUNDATION DRAIN TILE INTO CATCH BASIN WITH SOLID WALL PIPING.
9. CONNECT TO EXISTING FOUNDATION DRAIN TILE AND EXTEND THROUGH THE NEW VESTIBULE AREA. PROVIDE PERFORATED SCHEDULE 40 PVC WITH GEOTEXTILE WRAP. INCLUDE MINIMUM 6" BEDDING SAND AT WRAP IN ADDITION TO BEDDING AND BACKFILL REQUIRED. PROVIDE AND COORDINATE PIPE SLEEVES AT BUILDING WALL PENETRATIONS WITH GENERAL TRADES.



FOUNDATION DRAIN AND SUB SOIL DRAIN DETAIL

SCALE: 1/8" = 1'-0"

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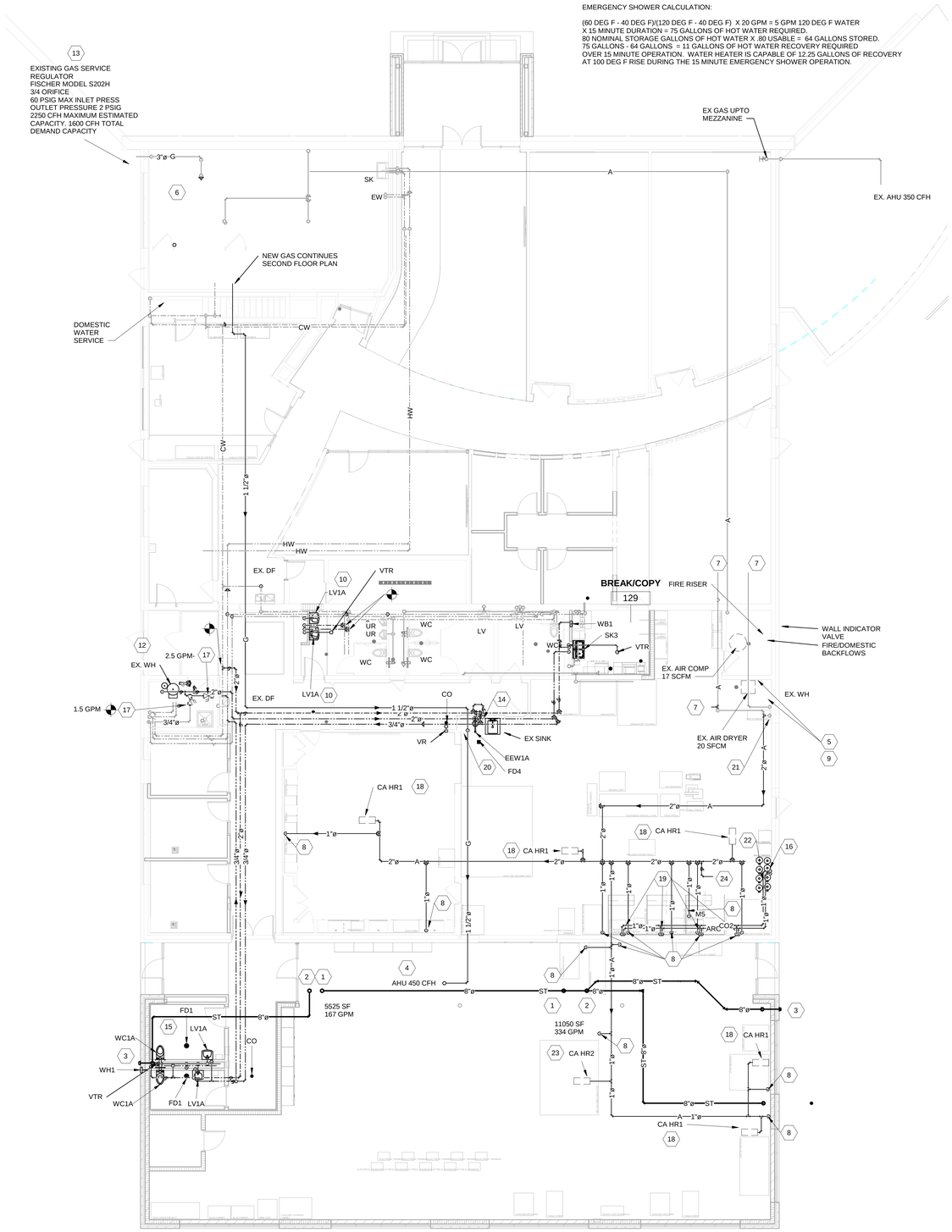
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FOUNDATION PLUMBING PLAN

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1 FIRST FLOOR PLUMBING PLAN - UNIT A

SCALE: 1/8" = 1'-0"

CODED NOTES

1 ROOF DRAIN ABOVE.

2 SECONDARY ROOF DRAIN ABOVE.

3 SECONDARY ROOF DRAINAGE OUTLET. MOUNT AT 18" AFG. BASIS OF DESIGN ZURN Z199SS. PLAIN BRONZE FINISH, INCLUDE BIRD SCREEN OPTION.

4 NATURAL GAS SUPPLY TO ROOF TOP UNIT. PROVIDE NATURAL GAS PRESSURE REGULATOR, 2PSIG INLET, 7" W.C. OUTLET, CAPACITY AS INDICATED. EXTEND REGULATOR RELIEF PIPED THROUGH THE BUILDING ROOF.

5 EXISTING COMPRESSED AIR PRESSURE REGULATORS TO REMAIN.

6 NATURAL GAS SUPPLY TO BOILER ON MEZZANINE.

7 2" COMPRESSED AIR SUPPLY TO BACKFEED THE EXISTING LABS COMPRESSED AIR RUNS LOCATED IN THE SERVICE MEZZANINE.

8 COMPRESSED AIR SUPPLY DROP. EXTEND DOWN AND TERMINATE AT 18" AFF. PROVIDE ISOLATION VALVE COMBINATION PRESSURE REGULATOR AND AIR FILTER EQUAL TO PARKER P3YRA96BNFN.

9 COMPRESSED AIR LAB MAIN SHUTOFF VALVE.

10 PLUMBING FIXTURE REMOVED UNDER DEMOLITION SCOPE. MODIFY THE EXISTING WATER, DRAIN, CARRIER AS NEEDED TO ACCOMMODATE NEW FIXTURES, CARRIERS AT REVISED LOCATIONS AND HEIGHTS. PIPING SHOWN IN THIS SPACE IS EXPOSED AT THE UNDERSIDE OF MEZZANINE PRECAST DECK. INSTALL PIPE AS TIGHT TO DECK AS POSSIBLE. PAINT PIPING TO MATCH ADJACENT.

12 EXISTING WATER HEATER. REFER TO DETAIL. PROVIDE NEW THERMAL EXPANSION TANK, RECIRCULATION PUMP, T/P RELIEF VALVE, RECIRC PUMP CONTROL AQUASTAT AND DIELECTRIC CONNECTORS AT HEATER.

13 GAS SERVICE METER AND REGULATOR SETTING.

14 MOUNT EMERGENCY THERMOSTATIC MIXING VALVE ABOVE 7' AFF.

15 PROVIDE 1-1/2" COLD WATER SUPPLY AND SERVE WATER CLOSET AND LAVATORY. PROVIDE WATER HAMMER ARRESTOR MOUNTED ABOVE ACCESSIBLE CEILING.

16 WELDING GAS SWITCHOVER MANIFOLD WITH PRESSURE REGULATOR. MOUNT TO WALL AND MAKE ALL FINAL CONNECTIONS. PROVIDE HARD BACKER BOARD AND LAGGED CHAIN RESTRAINTS FOR CONNECTED CYLINDERS. 4 ARGON CONNECTIONS, 4 AR/CO2 MIX (75% ARGON 25% CO2) CONNECTIONS TOTAL. REXARC MODEL 4-04-0136SHP-8

17 PROVIDE DOMESTIC HOT WATER RETURN BALANCING STATION PER DETAIL, SET TO FLOW PER PLAN.

18 COMPRESSED AIR HOSE REEL. REFER TO MOUNTING DETAIL AND SUPPLY DIAGRAM. HOSE REEL WITH 50' OF 1/2" HOSE. BASIS OF DESIGN REELCRAFT 7850 OLP.

19 3/4" ARGON, CO2 AND ARGON/CO2 MIX SUPPLY DROPS DOWN TO WELDING BOOTH OUTLET STATIONS. REXARC MODEL 2-04-1604. MAKE FINAL CONNECTIONS AS REQUIRED.

20 WELDING GAS CONTROL STATION EQUAL TO ISIMET INDUSTRIAL SHOP CONTROLLER, SURFACE MOUNT OPTION. 120V INLET POWER AND OUTLET POWER TO SOLENOID VALVES. PANEL SHALL INCLUDE INDIVIDUAL SWITCHES FOR TWO GASES. EMERGENCY SHUT DOWN BUTTON WITH RESET. KEYED CONTROL PANEL ACTUATION. MOUNT CONTROL STATION AND SOLENOID VALVES AT 34" TO 48" HEIGHT RANGE. PROVIDE THE ENTIRE WIRING, CONDUIT PACKAGE INCLUDING SOLENOID VALVES AND REMOTE MOUNTED EMERGENCY SHUT DOWN SWITCHES.

21 WELDING GAS EMERGENCY SHUTOFF REMOTE STATION. WALL MOUNT, SURFACE MOUNTED OPTION MOMENTARY SWITCH WITH MANUAL RESET EQUAL TO ISIMET LAV2-HP.

22 WELDING GAS SOLENOID SHUTOFF VALVE EQUAL TO ISIMET S-803, 1" SIZE. PROVIDE 1 PER GAS INSTALL INSIDE SOLENOID VALVE BOX EQUAL TO ISIMET MODEL SE-1-1-1-2-CO2-ARG-3-S-G.

23 COMPRESSED AIR HOSE REEL. REFER TO MOUNTING DETAIL AND SUPPLY DIAGRAM. HOSE REEL WITH 100' OF 1/2" HOSE. BASIS OF DESIGN 82100 OLP.

24 EXTEND 1/2" COMPRESSED AIR CONNECTION TO WELDING FUME COLLECTOR WFC-01. FIELD COORDINATE EXACT EQUIPMENT CONNECTION LOCATION.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK
Z.
HOPE
E-79009
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PROFESSIONAL ENGINEER

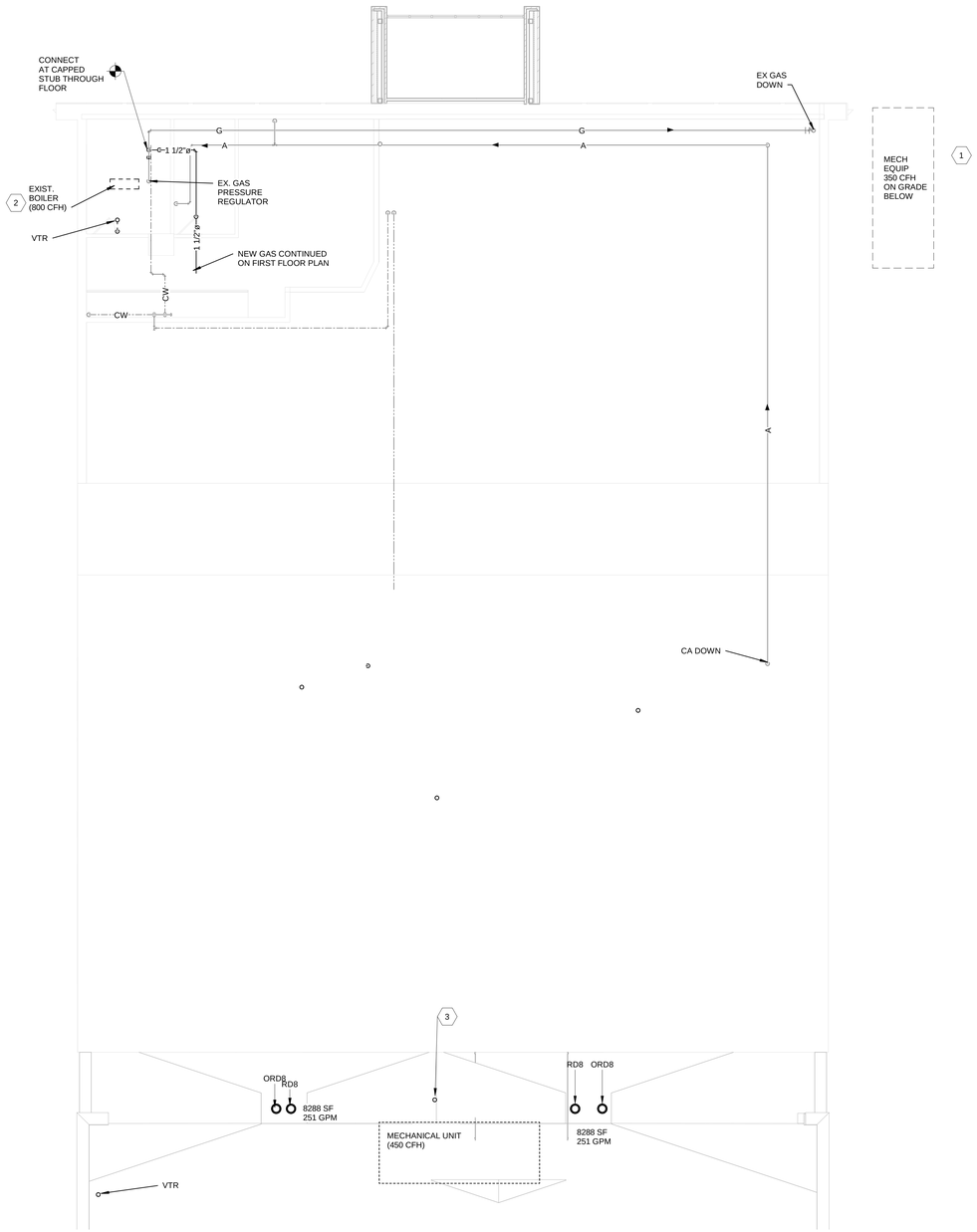
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FIRST FLOOR PLUMBING PLAN

PL11

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1 SECOND FLOOR PLUMBING PLAN - UNIT A

SCALE: 1/8" = 1'-0"

CODED NOTES

1 EXISTING MECHANICAL EQUIPMENT TO REMAIN.

2 EXISTING BOILER TO REMAIN.

3 NEW ROOF TOP UNIT NATURAL GAS SUPPLY. PROVIDE ISOLATION VALVE, UNION, DIRT LEG AND PRESSURE REGULATOR. REGULATOR INLET PRESSURE 2 PSIG AND OUTLET PRESSURE 7" W.C.

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SECOND FLOOR PLUMBING PLAN

PL12

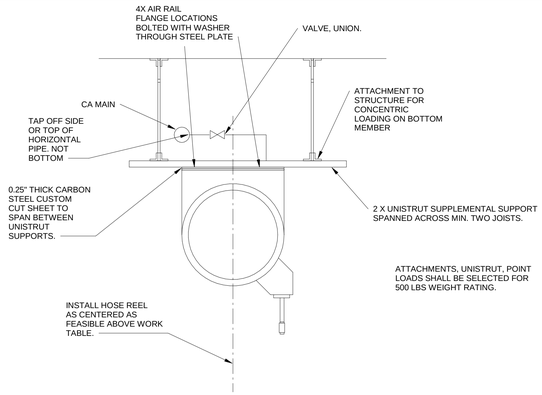
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PLUMBING EQUIPMENT SCHEDULE

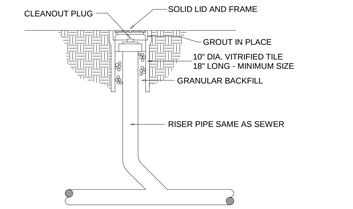
MARK	DESCRIPTION	LOCATION	MANUFACTURER/MODEL NUMBER	CAPACITY	REMARKS	ELECTRICAL DATA					COMMENTS
						HP	KW	V	AMP	PH	
DVCA	DOUBLE CHECK VALVE ASSEMBLY-EXISTING	MECH. ROOM	EXISTING	500 GPM @ 3 PSI DROP MAX.		-	-	-	-	-	
DWH	DOMESTIC WATER HEATER-EXISTING	MECH. ROOM	EXISTING	EXISTING	-	-	-	-	-	-	
EXT1	THERMAL EXPANSION TANK		AMTROL ST-5C-DD-ASME	2 GAL VOLUME 0.9 MAX ACCEPT							
HWCP-1	HOT WATER RETURN PUMP NO. 1 (120 DEG. F.)	MECH. ROOM	BELL AND GOSSETT MODEL NO. NBF22	5 GPM @ 10 T.D.H.	ALL BRONZE CONSTRUCTION	1/6	92 WATTS	115	-	-	
WT1	WELDING HIGH PRESSURE CYLINDER - INERT GAS - BY OWNER					-	-	-	-	-	

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE						TRIM			ACCESSORIES			CONNECTIONS				COMMENTS
	ITEM	MFGR	MODEL	MATERIAL	TYPE	COLOR	ITEM	MFGR	MODEL	ITEM	MFGR	MODEL	CW	HW	W	V	
EEW/SH-1	EMERGENCY SHOWER	BRADLEY	S19214	STAINLESS	WALL MTD.	-	MIXING VALVE	BRADLEY	S192000	-	-	-	1"	1"	2"	1 1/2"	
LA	LAVATORY	AMERICAN STANDARD	0355.012	VIT. CHINA	WALL MTD.	WHITE	FAUCET	ZURN	Z81000-XL-26M	TMV	WATTS	LFUSG1	1/2"	1/2"	1 1/2"	1 1/2"	PROVIDE SUPPLY/TRAP WRAP EQUAL TO TRUBRO LAVGUARD
SKD3	DOUBLE BOWL COUNTERTOP SINK	ELKAY	LRAD291855	STAINLESS	COUNTER MTD	STAINLESS	FAUCET	ZURN	Z82300-XL-CP8-HS				1/2"	1/2"	1 1/2"	1 1/2"	
WB-1	WATER SUPPLY BOX	GUY GRAY	MIHAAB	STAINLESS	WALL MTD.	WHITE	-	-	-	-	-	-	1/2"				
WC1	WATER CLOSET	AMERICAN STANDARD	2257.101	VIT. CHINA	WALL MTD.	WHITE	FLUSH VALVE	SLOAN	111-1.6	SEAT	BEMIS	1955SSCT	1 1/2"		4"	2"	
WH-1	NON-FREEZE WALL HYDRANT	JR SMITH	5519	ROUGH BRONZE	AS NOTED	-	-	-	-	-	-	-	3/4"				



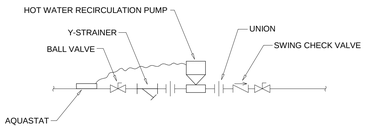
4 HOSE REEL
NOT TO SCALE



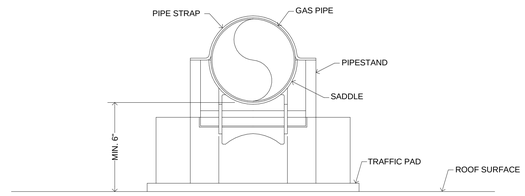
5 EXTERIOR CLEANOUT DETAIL
NOT TO SCALE



7 HWR BALANCING STATION DETAIL
NOT TO SCALE



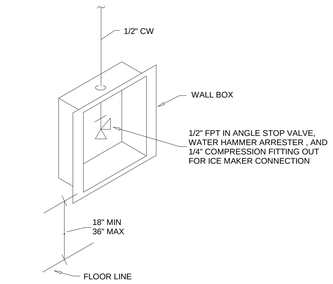
8 HWR PUMP PIPING DIAGRAM
NOT TO SCALE



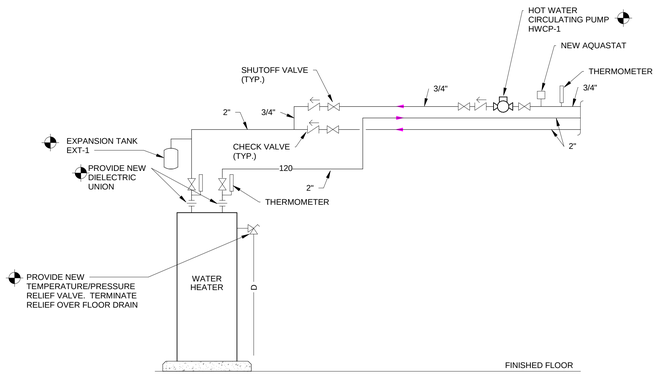
NOTES:

1. PIPESTAND MIRO MODEL NO. 3-R WITH ROLLER.
2. INSTALL PIPE STRAP USING #10 STAINLESS STEEL SCREWS PER UNIT MANUFACTURER RECOMMENDATION. PROVIDE LOOSE INSTALLATION TO PROVIDE FREE MOVEMENT.
3. SPACE PIPESTANS TO OBTAIN A MAXIMUM LOAD WEIGHT OF 100 LBS. PER PIPE STAND. MAXIMUM SPACING SHALL BE 10'-0".
4. INSTALL MIRO MODEL NO. 3-R SPACERS AS REQUIRED TO PROVIDE MINIMUM 6" CLEARANCE BETWEEN ROOF SURFACE AND BOTTOM OF PIPE INSULATION.
5. INSTALL TRAFFIC PAD OR MIRO DECK PLATE BELOW EACH PIPESTAND. ADJUST THE HEIGHT OF EACH PIPE STAND TO ACHIEVE EVEN LOAD WEIGHT AT ALL PIPESTANDS.

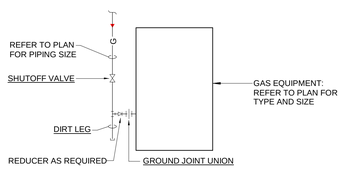
10 ROOFTOP PIPESTAND DETAIL
NOT TO SCALE



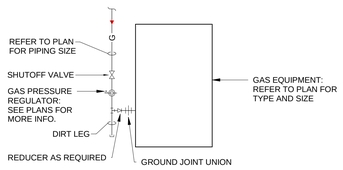
9 ICE MAKER BOX DETAIL
NOT TO SCALE



1 WATER HEATER DETAIL
SCALE: 1/8" = 1'-0"



3 NATURAL GAS DIRT LEG
NOT TO SCALE



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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK Z. HOPE E-79009 REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: CSS
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

PLUMBING DETAILS

P-501

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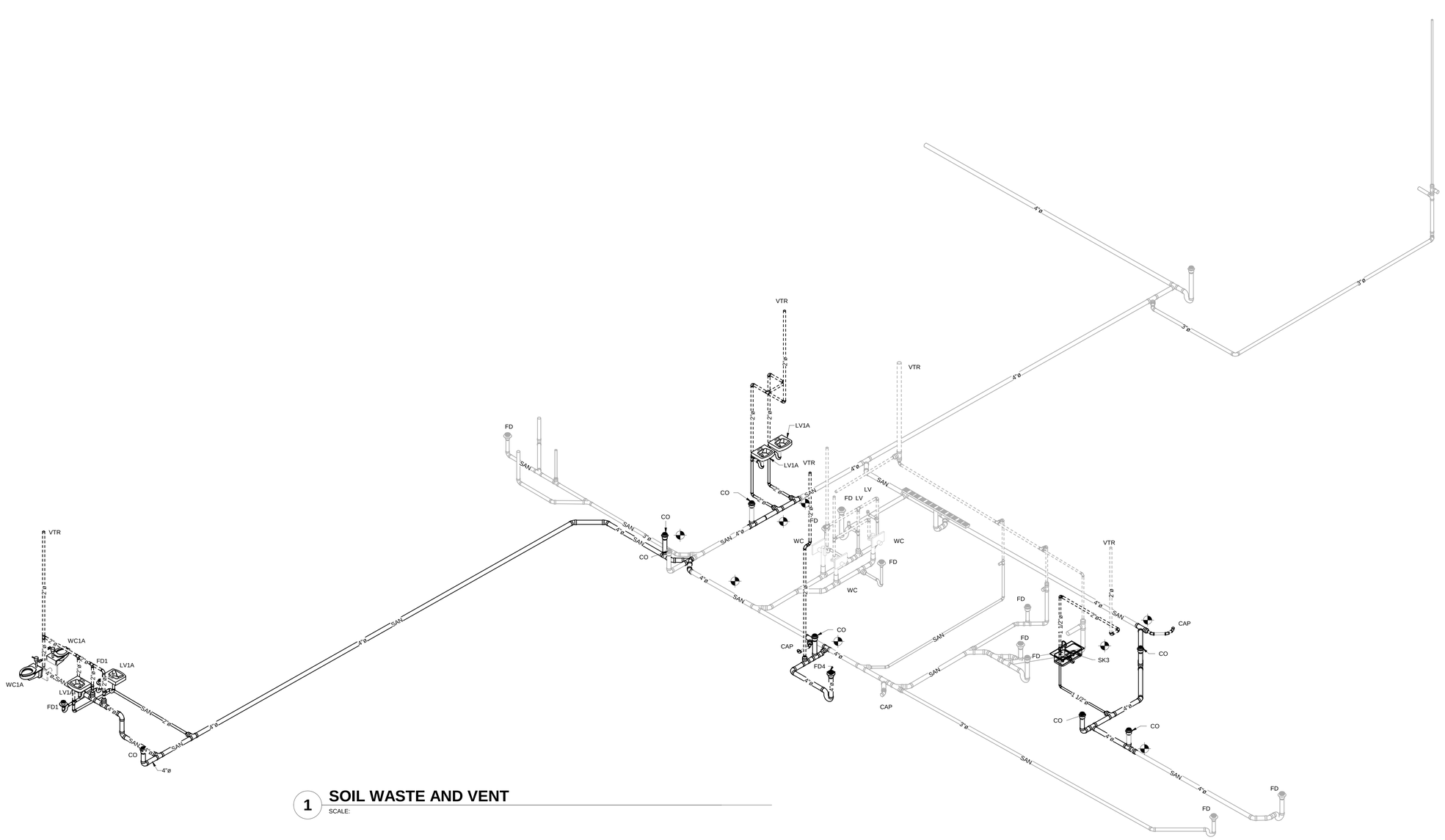
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PLUMBING DIAGRAMS

P-701



1 **SOIL WASTE AND VENT**
SCALE:

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ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON THE CONTRACT DOCUMENTS, INCLUDE BUT ARE NOT LIMITED TO THOSE LISTED BELOW

#	NUMBER
(N)P(N)W	NUMBER OF POLES, NUMBER OF WIRES
ACU	AIR CONDITIONING UNIT
AF	AMP FRAME
AFC	ABOVE FINISHED COUNTERTOP
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHU	AIR HANDLER UNIT
AIC	AMPERE INTERRUPTING CAPACITY
AID	ADDRESSABLE INTERFACE DEVICE
AR	AS REQUIRED
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
A/V	AUDIO VISUAL
B	BLANK
BPS	BOLTED-PRESSURE CONTACT SWITCH
C	CONDUIT (GENERIC TERM FOR RACEWAY, PROVIDE AS SPECIFIED)
Cd	CANDELA
CLG	CEILING MOUNTED
CAM	CAMERA
CL	LIGHTING CONTACTOR
COL	COLUMN
CMF	COMBINATION MOTOR FUSIBLE STARTER
CUH	CABINET UNIT HEATER
D	DEMO TABLE
DC	DIRECT CURRENT
DED	DEDICATED DEVICE ON INDIVIDUAL BRANCH CIRCUIT
DF	DUAL FACE
DIA	DIAMETER
DISTR	DISTRIBUTION
DPST	DOUBLE POLE SINGLE THROW
DPDT	DOUBLE POLE DOUBLE THROW
DT	DUST-TIGHT
EBJ	EQUIPMENT BONDING JUMPER ON LOAD SIDE OF AN OVER-CURRENT DEVICE
EC	ELECTRICAL CONTRACTOR
EM	WIRED ON EMERGENCY CIRCUIT
EOL	END OF LINE
ETR	EXISTING TO REMAIN
EWC	ELECTRIC WATER COOLER
EX	EXISTING
F	FLUSH
F@	FUSED AT
FA	FIRE ALARM
FBO	FURNISHED BY OTHERS
FCU	FAN COIL UNIT
FDN	FOUNDATION
FPB	FAN POWERED BOX
FRE	FIBERGLASS REINFORCED EPOXY CONDUIT
FS	FLOW SWITCH
H-O-A	HAND-OFF-AUTO
HTP	HEAT PUMP
KEC	KITCHEN EQUIPMENT CONTRACTOR
K/O	KNOCK-OUT
LFMC	LIQUIDTIGHT FLEXIBLE METALLIC CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
LS	LIMIT SWITCH
LSIG	LONG TIME, SHORT TIME, INSTANTANEOUS AND GROUND FAULT TRIP ADJUSTMENTS TO BE PROVIDED ON A CIRCUIT BREAKER
LV	LOW VOLTAGE
MATV	MASTER ANTENNA TV
MBJ	MAIN BONDING JUMPER
MC/ER	MAIN CROSS-CONNECT/EQUIPMENT ROOM
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MDP	MAIN DISTRIBUTION PANEL
M.H.	MANHOLE (ON SITE PLAN)
MH	MOUNTING HEIGHT (ON PLAN), ALL MOUNTING HEIGHTS FOR DEVICE BOXES ARE FROM FINISHED FLOOR TO BOTTOM OF BOX, UNO. VERIFY OUTLET LOCATIONS WITH OTHER TRADES BEFORE ROUGH-IN
MLO	MAIN LUGS ONLY
MOD	MOTOR OPERATED DISCONNECT SWITCH
MOCP	MAXIMUM OVER-CURRENT PROTECTION
MSB	MAIN SWITCHBOARD
MSC	MOTOR STARTER CENTER
MTD	MOUNTED
MTG	MOUNTING
MTS	MANUAL TRANSFER SWITCH
MV	MEDIUM VOLTAGE
MZU	MULTI-ZONE HVAC UNIT
N	GROUNDED CIRCUIT CONDUCTOR (NEUTRAL)
+N	INDICATES MOUNTING HEIGHT (N) TO BOTTOM OF DEVICE FROM FINISH FLOOR, UNO
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NFS	NONFUSIBLE SWITCH
NIC	NOT IN CONTRACT
NL	NIGHT LIGHT
NM	NONMETALLIC SHEATHED CABLE
NO	NORMALLY OPEN
NRTL	NATIONALLY RECOGNIZED TESTING LAB
NTS	NOT TO SCALE
OC	ON CENTER
OCPD	OVER-CURRENT PROTECTIVE DEVICE
PA	PUBLIC ADDRESS SYSTEM
PB	PULL BOX
PE	PNEUMATIC/ELECTRIC
PH	PROPELLER HEATER
PIV	POST INDICATING VALVE
PR	PAIR
PUH	PROPELLER UNIT HEATER
R	RELEASE
RAF	RETURN AIR FAN
RT	RAIN-TIGHT
RVS	REDUCE VOLTAGE STARTER
S	SURFACE
SBJ	SYSTEM BONDING JUMPER
SIG	SIGNAL
SN	SOLID NEUTRAL
SP	SPARE
SPL	SPLICE
SPDT	SINGLE POLE DOUBLE THROW
SPST	SINGLE POLE SINGLE THROW
SS	STAINLESS STEEL
SSBJ	SUPPLY-SIDE BONDING JUMPER
ST	SHUNT TRIP
STP	SHIELDED TWISTED PAIR
STL	CARBON STEEL
SUSP	SUSPENDED
SW	SWITCH
SWBD	SWITCHBOARD
TC	TELEPHONE CABINET
TCP	TEMPERATURE CONTROL PANEL
TEL/DATA	TELEPHONE/DATA
TEL	TELEPHONE
TERM	TERMINAL(S)
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TTB	TELEPHONE TERMINATION BOARD
UEF	UTILITY EXHAUST FAN
UG	UNDERGROUND
UNO	UNLESS NOTED OTHERWISE
UV	UNIT VENTILATOR
VG	VANDAL GUARD
VIF	VERIFY IN FIELD
VT	VAPOR-TIGHT
WG	WIRE GUARD
WH	WATTHOUR
WM	WALL MOUNTED
WP	WEATHERPROOF
WT	WATER-TIGHT
XFMR	TRANSFORMER

POWER SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT TO BOTTOM
	CONDUIT CONCEALED ABOVE CEILING OR IN WALL	
	CONDUIT CONCEALED IN OR BELOW FLOOR, OR UNDER GROUND	
X 1AL1-1	20 AMP, 125 VOLT, NEMA 5-20R DUPLEX RECEPTACLE WITH COMMON COVER PLATE MOUNTED VERTICALLY +16" TO BOTTOM. LETTER(S) IN FRONT INDICATES LOAD TYPE, SEE BELOW. SINGLE LINE INDICATES HORIZONTAL MOUNTING, DOUBLE LINE INDICATE QUAD, DARK CENTER INDICATES ABOVE COUNTERTOP MOUNTING (44") NEMA 5-20R, UNO. CIRCUIT NUMBER (e.g. "1AL1-1") ADJACENT TO THE SYMBOL ON PLANS INDICATES PANELBOARD/CIRCUIT NUMBER SERVING RECEPTACLE, UNO. ALL RECEPTACLES SHALL BE TAMPER-RESISTANT TYPE. B RECEPTACLE WITH 20 AMP SINGLE POLE SWITCH IN 2 GANG BOX AND COMMON COVER PLATE C CASEWORK, COORDINATE WITH ARCHITECTURAL CO COPY MACHINE CM COFFEE MAKER E RED RECEPTACLE AND STAINLESS COVER PLATE, CONNECT TO BACKUP POWER GF GROUND FAULT CIRCUIT INTERRUPTING TYPE I ISOLATED GROUND M MONITOR - 60" AFF MW MICROWAVE R REFRIGERATOR - 48" AFF TL TWIST LOCK TR TAMPER RESISTANT U DUPLEX RECEPTACLE WITH (2) USB PORTS UR UNDER COUNTER REFRIGERATOR V VENDING MACHINE, FEED FROM 30 mA GFCI BREAKER IN PANELBOARD. VP WALL MOUNTED VIDEO PROJECTOR, 96" AFF UNO WB WHITEBOARD WC ELECTRIC WATER COOLER. FEED FROM 5 mA GFCI BREAKER IN PANELBOARD. WF WASHFOUNTAIN/LAVATORY. CONNECT TO NEAREST THROUGH FEED GFCI RECEPTACLE. WM WASHING MACHINE. FEED FROM 30 mA GFCI BREAKER IN PANELBOARD. WP WEATHER RESISTANT GFCI WITH IN-USE TYPE WEATHERPROOF COVER HINGED AT TOP X EXPLOSION PROOF	
	20 AMP SINGLE RECEPTACLE, NEMA 5-20R	16"
30	SINGLE STRAIGHT BLADE RECEPTACLE, 30A, 125 VOLT, NEMA 5-30R	16"
C	15 AMP SINGLE RECEPTACLE, SEMI-RECESSED WALL MOUNTED WITH CLOCK HANGER, NEMA 5-15R	76"
	20 AMP DUPLEX RECEPTACLE FLUSH CEILING MOUNTED , NEMA 5-20R	CLG
U	SINGLE FLUSH BOX WITH FOUR USB CHARGING PORTS, WITH DECORA STYLE COVER PLATE; MOUNTED ABOVE COUNTERTOP HEIGHT, UNO	44"
	SPECIAL POWER RECEPTACLE, AMPS, VOLTS AND NEMA CONFIGURATION AS DEFINED ON PLANS BY CODED NOTE	16"
	SINGLE STRAIGHT BLADE, SPECIAL RECEPTACLE, 20A, 125/250 VOLT, 3P, 4W, NEMA 14-20R	16"
W	SINGLE STRAIGHT BLADE, WELDING RECEPTACLE, 60A, 250 VOLT, 3P, 3W, NEMA 15-60R	44"
R	SINGLE STRAIGHT BLADE, RANGE RECEPTACLE, 50A, 125/250 VOLT, 3P, 4W, NEMA 14-50R	8"
D	SINGLE STRAIGHT BLADE, GROUNDED DRYER RECEPTACLE, 30A, 125/250 VOLT, 3P, 4W, NEMA 14-30R	32"
T	30 AMP, 120 VOLT, SINGLE TWIST LOCK RECEPTACLE, UNO, NEMA L5-30R	16"
F	20 AMP DUPLEX RECEPTACLE IN FLUSH FLOOR MOUNTED BOX,NEMA 5-20R. USE A CAST BOX AT GRADE LEVEL, USE A STAMPED STEEL BOX FOR UPPER FLOORS. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
T	20 AMP DUPLEX RECEPTACLE IN FIRE RATED POKE-THRU FLOOR DEVICE, NEMA 5-20R. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
P	20 AMP DUPLEX RECEPTACLE IN PEDESTAL MOUNTED ABOVE FLOOR SERVICE FITTING, NEMA 5-20R. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	HIGH CAPACITY FLOOR BOX WITH 4 DUPLEX RECEPTACLES, NEMA 5-20R, UNO FOR POWER AND DATA. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	COMMUNICATIONS/POWER POLE PRE-WIRED WITH 2 DUPLEX RECEPTACLES, WITH TWO J BOX ABOVE CEILING. REFER TO SPECIFICATIONS FOR REQUIREMENTS.	-
	CORD REEL TWO 20 AMP DUPLEX RECEPTACLES IN BOX WITH COVER PLATE, PENDANT MOUNTED WITH 3/C, SJO CORD AND STRAIN RELIEF GRIPS.	-
	2 CHANNEL MULTIOUTLET SURFACE RACEWAY ASSEMBLY WITH DUPLEX RECEPTACLES AND DATA OUTLETS. SEE TECHNOLOGY DRAWINGS. QUANTITY AS SHOWN OR PER SPEC.	-
	SINGLE CHANNEL MULTIOUTLET SURFACE RACEWAY PRE-WIRED ASSEMBLY WITH SINGLE RECEPTACLES. QUANTITY PER SPEC.	-

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MH
AID	ADDRESSABLE INTERFACE DEVICE	-
H	HEAT DETECTOR, 190 DEGREES F FIXED TEMPERATURE (UNO), CEILING MOUNTED	CLG
P D	ROUND INDICATES CEILING MOUNTED,SQUARE INDICATES DUCT MOUNTED, PHOTOELECTRIC SMOKE DETECTOR	
FAA	FIRE ALARM ANNUNCIATION PANEL	56"
FAPS	FIRE ALARM POWER SUPPLY	-
FAP	FIRE ALARM CONTROL PANEL	-
F F	AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE (HORN/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
S S	VOICE/ALARM COMMUNICATION AUDIBLE AND VISIBLE NOTIFICATION DEVICE (SPEAKER/STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
V V	VISIBLE NOTIFICATION APPLIANCE (STROBE), CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 80" AFF	CLG
L L	VOICE/ALARM COMMUNICATIONS LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG
F	MANUAL FIRE ALARM PULL STATION, AND AUDIBLE AND VISIBLE NOTIFICATION APPLIANCE ABOVE (SPEAKER/STROBE), WALL MOUNTED	44"/80"
F	MANUAL FIRE ALARM PULL STATION, WALL MOUNTED	44"
S S	VOICE/ALARM COMMUNICATIONS HORN TYPE LOUDSPEAKER, CEILING MOUNTED, EXTRA LINE INDICATES WALL MOUNTING AT 96" AFF	CLG
T	SMOKE DETECTOR BEAM TRANSMITTER	-
R	SMOKE DETECTOR BEAM RECEIVER	-
SD	SMOKE DAMPER ACTUATOR AND ASSOCIATED SMOKE DETECTOR, TYPE PER PLANS	-
FS	WATER FLOW SWITCH CONNECTION	-
SV	SUPERVISORY VALVE TAMPER SWITCH CONNECTION	-
FH	SURFACE FIRE ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR
SH	SURFACE SECURITY ALARM MAGNETIC DOOR HOLDER	6" BELOW TOP OF DOOR
S	ELECTRONIC RELEASE DOOR CLOSER	-
B	FIRE ALARM BELL, WALL MOUNTED, WEATHERPROOF WHERE EXTERIOR MOUNTED	96"
KH	MICRO SWITCH IN KITCHEN HOOD FOR FIRE SUPPRESSION SYSTEM. SUPPLIED BY OTHERS, WIRED BY EC.	HOOD
PV	POST INDICATOR VALVE TAMPER SWITCH	-

POWER SYMBOLS

SYMBOL	DESCRIPTION	MH
	DISTRIBUTION PANEL, SEE ONE LINE DIAGRAM	-
	SURFACE CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	-
	FLUSH MOUNTED CIRCUIT BREAKER PANELBOARD, SEE ONE LINE DIAGRAM	-
M	UTILITY METER	-
	PUSH BUTTON STATION, TYPE INDICATED	44"
	PUSH BUTTON STATION, ON/OFF	44"
	PUSH BUTTON STATION, UP/DOWN/STOP	44"
	RECESSED ADA PUSH BUTTON FOR AUTOMATIC DOOR OPERATOR, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"
	RECESSED ADA DOUBLE PUSH BUTTON FOR DUAL AUTOMATIC DOOR OPERATORS, FURNISHED BY OTHERS, INSTALLED BY DIV. 26	44"
	RED MUSHROOM ABORT SWITCH, WALL MOUNTED	44"
PC	PHOTOCELL AIMED NORTH	-
D	RECESSED WALL BOX FOR HAIR DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED	-
H	RECESSED WALL BOX FOR HAND DRYER. CIRCUIT WITH 2#10, #10G IN 3/4" C TO PANEL INDICATED	-
B	CIRCUIT BREAKER DISCONNECT SWITCH, 30A - 3 POLE, UNO	48"
	NON-FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNO. -WP SUFFIX DESIGNATES NEMA 3R ENCLOSURE. -WP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	48"
F 100A-3P	FUSED DISCONNECT, 3 POLE, NEMA 1, UNO. 30 AMP UNO. -WP SUFFIX DESIGNATES NEMA 3R ENCLOSURE. -WP4X SUFFIX DESIGNATES NEMA 4X STAINLESS STEEL ENCLOSURE.	48"
	MAGNETIC STARTER, 30 AMP - 3 POLE, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	48"
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE CIRCUIT BREAKER DISCONNECT SWITCH, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	48"
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE MOTOR CIRCUIT PROTECTOR (MCP) DISCONNECT SWITCH, NEMA SIZE 1, UNO WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	48"
	COMBINATION MAGNETIC MOTOR STARTER, WITH 30 AMP - 3 POLE FUSED DISCONNECT SWITCH, NEMA SIZE 1, UNO, WITH H.O.A. SWITCH AND RED PILOT LIGHT (RUNNING).	48"
MP	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION AND PILOT LIGHT, UNO. FLUSH MOUNTED IN FINISH SPACES.	44"
M	MANUAL MOTOR STARTER WITH THERMAL OVERLOAD PROTECTION, UNO. FLUSH MOUNTED IN FINISH SPACES.	44"
F	MANUAL MOTOR STARTER, NO OVERLOADS. FLUSH MOUNTED IN FINISH SPACES.	44"
T	SPRING WOUND TIMER, HP RATED	44"
C	CONTROL SWITCH FOR DEVICES SUCH AS MOTORIZED SHADES, SOLAR LIGHT TUBES, PROJECTION SCREENS, ETC. FURNISHED BY OTHERS, INSTALLED FLUSH MOUNTED WITH COVER PLATE AND WIRED BY DIV. 26	44"
C	ELECTRICALLY HELD CONTACTOR WITH H-O-A SWITCH, 30A - 3P, UNO. REFER TO SPECIFICATION FOR REQUIREMENTS.	48"
C	COMBINATION ELECTRICALLY HELD CONTACTOR, WITH H-O-A SWITCH AND 30 AMP - 3P CIRCUIT BREAKER DISCONNECT SWITCH, UNO. REFER TO SPECIFICATION FOR REQUIREMENTS.	48"
TC	DIGITAL TIME CLOCK SWITCH	60"
VFC	VARIABLE FREQUENCY CONTROLLER, FURNISHED BY DIV. 23 CONTRACTOR, INSTALLED BY DIV. 26 CONTRACTOR, UNO. COORDINATE FINAL MOUNTING HEIGHT.	60"
ATS	AUTOMATIC TRANSFER SWITCH, REFER TO SINGLE LINE DIAGRAM. COORDINATE FINAL MOUNTING HEIGHT. REFER TO SPECIFICATIONS FOR REQUIREMENTS	60"
R	RELAY	-
A	AQUASTAT	-
SV	SOLENOID VALVE	-
T	THERMOSTAT	-
	MOTOR	-
T	DRY TYPE TRANSFORMER	-
SPD	SURGE PROTECTIVE DEVICE. REFER TO SPECIFICATION FOR REQUIREMENTS.	-
GAP	GENERATOR ANNUNCIATOR PANEL	56"
	UTILITY POLE	-
J J	JUNCTION BOX, PIGTAIL INDICATED FLEXIBLE CONDUIT CONNECTION TO EQUIPMENT	-
	CEILING PADDLE FAN WITH JUNCTION BOX SECURELY MOUNTED TO STRUCTURE	CLG
RAP	REFRIGERANT DETECTION AND ALARM: REFRIGERANT MONITOR CONTROL PANEL	56"
R	REFRIGERANT DETECTION AND ALARM: SENSOR	-
R	REFRIGERANT DETECTION AND ALARM: NOTIFICATION APPLIANCE	-
RBA	REFRIGERANT DETECTION AND ALARM: SELF CONTAINED BREATHING APPARATUS	56"
CP	CONTROL PANEL SUPPLIED BY VENDOR, INSTALLED AND WIRED BY CONTRACTOR. COORDINATE FINAL MOUNTING HEIGHT	-
SC	SHOT CLOCK, WALL MOUNTED. FURNISHED BY OTHERS INSTALLED BY DIV 26	-

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MH
HB	OCCUPANCY SENSOR - CEILING MOUNTED (UNO), HIGH BAY INFRARED, 360 DEGREE PATTERN, 36' DIA. COVERAGE PATTERN (MIN.) AT 20' MOUNTING HEIGHT. PROVIDE WITH RELAY OPTION.	CLG
H	OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC SENSOR FOR CORRIDOR & HALLWAY APPLICATIONS, 56'x16' (MIN.) RECTANGULAR SHAPED COVERAGE PATTERN. PROVIDE WITH RELAY OPTION. "^" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.	CLG
CT	OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 2000 S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "^" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.	CLG
CD	OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, 360 DEGREE PATTERN, 2000 S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "^" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS. PROVIDE WITH INTEGRAL DAYLIGHT SENSOR.	CLG
CI	OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, 360 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION.	CLG
CU	OCCUPANCY SENSOR - CEILING MOUNTED, ULTRASONIC, 360 DEGREE PATTERN, 2000 S.F. COVERAGE. PROVIDE WITH RELAY OPTION. "^" PORTION OF SYMBOL INDICATES AIMING OF ULTRASONIC SENSORS.	CLG
CT	OCCUPANCY SENSOR - CEILING MOUNTED, DUAL TECHNOLOGY, DIRECTIONAL/180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILING MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "^" PORTION OF SYMBOL INDICATES AIMING.	CLG
CI	OCCUPANCY SENSOR - CEILING MOUNTED, INFRARED, DIRECTIONAL/180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION. PROVIDE WITH CEILING MOUNTING BRACKET ACCESSORY IF NOT SUPPLIED AS STANDARD WITH SENSOR. "^" PORTION OF SYMBOL INDICATES AIMING.	CLG
WT	OCCUPANCY SENSOR - WALL MOUNTED, DUAL TECHNOLOGY, 180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION.	96"
WI	OCCUPANCY SENSOR - WALL MOUNTED, INFRARED, 180 DEGREE PATTERN, 1200 S.F. COVERAGE (MIN.). PROVIDE WITH RELAY OPTION.	96"
ST	OCCUPANCY SENSOR - WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE SWITCH	44"
SD	OCCUPANCY SENSOR - WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE SWITCH, WITH DIMMING CAPABILITIES	44"
ST 2	OCCUPANCY SENSOR - DUAL LEVEL WALL SWITCH TYPE, DUAL TECHNOLOGY WITH MANUAL OVERRIDE SWITCH	44"
SI	OCCUPANCY SENSOR - WALL SWITCH TYPE,INFRARED WITH MANUAL OVERRIDE SWITCH	44"
DS	DAYLIGHT SENSOR	CLG
K	KEY OPERATED SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO	44"
3	SWITCH, NUMBER INDICATES NUMBER OF POLES, 277V, 20A, FLUSH UNO	44"
MK	MOMENTARY CONTACT SNAP KEYED SINGLE POLE SWITCH, DOUBLE THROW, CENTER-OFF	44"
MC	MOMENTARY CONTACT SNAP SINGLE POLE SWITCH, DOUBLE THROW, CENTER-OFF	44"
L	SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO WITH LIGHTED HANDLE	44"
a	SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO TYPICAL, SUBSCRIPT a, b, c INDICATES WHICH LUMINAIRE THAT WILL BE CONTROLLED VIA SWITCH LEG	44"
P	SINGLE POLE SWITCH, 277V, 20A, FLUSH UNO WITH PILOT LIGHT	44"
D	WALL BOX DIMMER 277V, 1200 WATT MINIMUM, FLUSH, UNO. PROVIDE WATTAGE SIZE TO EXCEED CIRCUIT LOAD	44"
LC	LIGHTING CONTACTOR, MECHANICALLY HELD, 30A - 3P WITH H-O-A SWITCH, UNO	48"
LC	COMBINATION LIGHTING CONTACTOR, MECHANICALLY HELD, WITH H-O-A SWITCH AND 30A - 3P CIRCUIT BREAKER, UNO	48"
LRP	LIGHTING RELAY PANEL	-
	DOWNLIGHT LUMINAIRE, APPROXIMATE SIZE INDICATED	-
	DOWNLIGHT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED	-
	WALL SCONCE LUMINAIRE	-
	WALL MOUNTED EXIT SIGN, DIRECTIONAL ARROWS AS SHOWN	96"
	CEILING MOUNTED EXIT SIGN, SHADED PORTION(S) INDICATES SINGLE OR DOUBLE FACE	CLG
	ARM MOUNTED AREA LUMINAIRE	-
	POLE TOP AREA LUMINAIRE	-
	TRACK HEAD LUMINAIRE	-
	EMERGENCY LIGHTING UNIT WITH 2 HEADS AND BATTERY	76"
	WALL-BRACKET LUMINAIRE, APPROXIMATE SIZE INDICATED	-
	WALL-BRACKET LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED	-
	RECESSED LUMINAIRE, APPROXIMATE SIZE INDICATED. ("NL", INDICATES NIGHT LIGHT FIXTURES)	CLG
	RECESSED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED	CLG
	SURFACE OR PENDANT MOUNTED LUMINAIRE, APPROXIMATE SIZE INDICATED	CLG
	SURFACE OR PENDANT MOUNTED LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED	CLG
	PENDANT LUMINAIRE, APPROXIMATE SIZE INDICATED	CLG
	PENDANT LUMINAIRE CONNECTED TO EMERGENCY SYSTEM AS INDICATED	CLG
	AIMABLE LUMINAIRE, CARROT INDICATING DIRECTION OF AIMING	-

ELECTRICAL GENERAL NOTES

1. THE TERM "PROVIDE" INDICATES CONTRACTOR SHALL FURNISH AND INSTALL ITEMS AND CONNECT AS REQUIRED TO OBTAIN A COMPLETE AND OPERABLE SYSTEM.
2. COORDINATE DEVICE LOCATIONS WITH ARCHITECTURAL PLANS, CASEWORK, WINDOWS, WALL FINISHES, EQUIPMENT, AND OTHER TRADES PRIOR TO ROUGH IN. DEVICES ARE INTENDED TO BE ACCESSIBLE, DO NOT INSTALL BEHIND CASEWORK, DOORS OR EQUIPMENT UNLESS INDICATED ON PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
3. WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF ALL LOCAL, STATE AND NATIONAL CODES INCLUDING, BUT NOT LIMITED TO NFPA 70 (NATIONAL ELECTRIC CODE), NFPA 72, NFPA 101, INTERNATIONAL BUILDING CODE, ETC.
4. CONFLICTS BETWEEN THE APPLICABLE CODES, STANDARDS, AND THE PLANS AND SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK.
5. REFER TO TECHNOLOGY PLANS FOR COMMUNICATIONS, SECURITY AND ACCESS CONTROL.
6. ADDITIONAL ELECTRICAL REQUIREMENTS MAY BE SHOWN ON PLANS FROM OTHER DISCIPLINES IN THIS SET. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW ALL PLANS AND SPECIFICATIONS FOR A COMPLETE UNDERSTANDING OF THE PROJECT REQUIREMENTS.
7. WHERE CONFLICTS ARE FOUND BETWEEN DRAWINGS, DETAILS, OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT SHALL APPLY. NOTIFY ARCHITECT OF DISCREPANCY IN WRITING.
8. INITIATING WORK CONSTITUTES CONTRACTOR ACCEPTANCE OF THE EXISTING CONDITIONS ASSOCIATED WITH THE WORK IN QUESTION.
9. CONTRACTOR SHALL CONTACT UTILITIES AND VERIFY UTILITY REQUIREMENTS PRIOR TO COMMENCING CONSTRUCTION. CONFLICTS BETWEEN UTILITY REQUIREMENTS AND THE PLANS OR SPECIFICATIONS SHALL BE SUBMITTED TO THE ARCHITECT IN WRITING PRIOR TO PROCEEDING WITH WORK. CONTRACTOR SHALL ARRANGE A PRE-CONSTRUCTION MEETING WITH THE UTILITY COMPANY TO REVIEW REQUIREMENTS. INCOMING SERVICE CONDUITS AND SUBSTRUCTURES SHALL BE INSTALLED PER UTILITY COMPANY STANDARDS.
10. THESE DRAWINGS AND SPECIFICATIONS DO NOT INDICATE METHODS OF CONSTRUCTION. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND IS RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFE PRACTICES.
11. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND CANNOT SHOW EVERY CONNECTION, JUNCTION BOX, WIRE, AND CONDUIT, ETC. THE EXACT LOCATIONS AND ARRANGEMENT OF PARTS SHALL BE DETERMINED AS THE WORK PROGRESSES. ITEMS NOT INDICATED ON DRAWINGS REASONABLY INFERRED TO BELONG TO THE WORK DESCRIBED SHALL BE FURNISHED AND INSTALLED TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
12. WORK SHALL BE COORDINATED WITH EXISTING CONDITIONS, NEW CONSTRUCTION, OWNER'S VENDORS, OTHER TRADES, AND THEIR DOCUMENTS. THE CONTRACTOR SHALL VISIT THE SITE BEFORE SUBMITTING HIS BID. CONTRACTOR SHALL CONTACT OWNER FOR AN APPOINTMENT TO VISIT THE SITE.
13. AN INSULATED GROUND CONDUCTOR SIZED PER NEC SHALL BE PROVIDED WITH EACH FEEDER AND BRANCH CIRCUIT.
14. PROVIDE A DEDICATED NEUTRAL FOR EACH LINE TO NEUTRAL CIRCUIT. MULTI-WIRE BRANCH CIRCUITS ARE NOT PERMITTED UNLESS SPECIFICALLY INDICATED ON PLANS.
15. MINIMUM WIRE SIZE IS #12 AWG. SEE SPECIFICATIONS FOR MINIMUM CONDUIT SIZE.
16. CONDUIT SHALL BE CONCEALED WHEREVER POSSIBLE ABOVE CEILINGS, INSIDE WALLS, OR UNDER FLOOR SLAB WHERE SHOWN ON DRAWINGS. IN AREAS WITH NO CEILING, RUN EXPOSED CONDUIT AS HIGH AS POSSIBLE AND PARALLEL TO NEARBY SURFACES OR EXISTING RACEWAYS. CONDUIT SHALL NOT BE INSTALLED IN FLOOR SLAB UNLESS SPECIFICALLY INDICATED ON PLANS AND WHERE APPROVED BY STRUCTURAL ENGINEER. DO NOT INSTALL MC CABLE IN EXPOSED LOCATIONS.
17. CONTRACTOR SHALL PROVIDE RIGID METAL SLEEVES TO FACILITATE PATHWAYS THROUGH FULL HEIGHT WALLS FOR ELECTRICAL AND TELECOMMUNICATION WIRING.
18. PROVIDE TEMPORARY OR PERMANENT END CAPS FOR STUBBED CONDUITS. PROVIDE INSULATED THROAT BUSHINGS FOR CONDUITS INTENDED TO REMAIN OPEN ENDED.
19. SEE ARCHITECTURAL PLANS FOR LOCATIONS OF FIRE RATED ASSEMBLIES AND SMOKE BARRIERS. SEAL PENETRATIONS IN ACCORDANCE WITH UL AND PROJECT SPECIFICATIONS.
20. MOUNTING HEIGHTS FOR WALL MOUNTED DEVICES INDICATED ABOVE FINISHED FLOOR ARE TO BOTTOM OF DEVICE UNO. MOUNTING HEIGHTS TO CEILING SUSPENDED DEVICES ARE TO BOTTOM OF DEVICE UNO.
21. PROVIDE SOUND INSULATING PUTTY AROUND DEVICES INSTALLED ON OPPOSITE SIDES OF A WALL IN THE SAME VERTICAL CHANNEL. IF DEVICES ARE LOCATED AT LEAST 8" HORIZONTALLY APART NO SOUND INSULATING PUTTY IS REQUIRED.
22. COORDINATE CEILING MOUNTED DEVICES WITH MECHANICAL AND ARCHITECTURAL REFLECTED CEILING PLANS. NOTIFY ARCHITECT IN WRITING OF CONFLICTS PRIOR TO PROCEEDING WITH WORK.
23. JUNCTION BOXES LOCATED ABOVE ACCESSIBLE CEILINGS SHALL BE LOCATED NO MORE THAN 36" ABOVE CEILING LEVEL. LABEL EACH BOX IN AREA OF WORK WITH A PERMANENT MARKER OR IN ACCORDANCE WITH SPECIFICATIONS, WHICHEVER IS MORE STRINGENT.
24. CONDUITS DESIGNATED AS EMPTY OR FUTURE SHALL BE PROVIDED WITH A #12 PULL LINE. OPEN ENDED CONDUITS SHALL BE PROVIDED WITH INSULATED THROAT BUSHINGS.
25. FOR LUMINAIRES, CIRCUIT NUMBER IS SHOWN ONLY ONCE IN EVERY ROOM. PROVIDE CIRCUIT INDICATED TO EVERY LIGHT FIXTURE INDICATED IN SAME ROOM UNLESS OTHERWISE INDICATED.
26. QUANTITY AND LOCATION OF TAMPER AND FLOW SWITCHES IS FOR BIDDING PURPOSES ONLY. VERIFY EXACT QUANTITY AND LOCATIONS WITH SPRINKLER CONTRACTOR PRIOR TO FIRE ALARM SHOP DRAWING SUBMITTAL.
27. ELECTRICAL PANELS INCLUDING BUT NOT LIMITED TO FIRE ALARM CONTROL PANELS, LIGHTING CONTROL PANELS, POWER DISTRIBUTION WILL HAVE A MAX DEVICE HEIGHT OF 72" AFF.
28. PROVIDE GROUNDING TYPE EXPANSION FITTINGS OR OTHER APPROVED METHODS TO ALLOW FOR EXPANSION, CONTRACTION, AND DEFLECTION WHERE CONDUITS CROSS BUILDING EXPANSION JOINTS.
29. PROVIDE SEPARATE RACEWAY FOR EMERGENCY SYSTEM WIRING PER NEC ARTICLE 700. MINIMUM WIRE SIZE #10AWG.
30. ALL CONDUITS SHALL INCLUDE AN INSULATED GROUND WIRE, SIZED PER N.E.C.
31. AUTODOORS AND WHEELCHAIR LIFT PROVIDED AND INSTALLED BY OTHERS. PROVIDE CONDUIT AND BOX ROUGH-INS FOR MOTORS AND PUSHBUTTONS. MAKE FINAL POWER CONNECTIONS. ALL CONTROL WIRING BY OTHERS.
32. **MASONRY LOAD-BEARING WALLS AND MASONRY SHEAR WALLS**: DO NOT PENETRATE CMU WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CMU BOND BEAMS OR LINTELS. DO NOT CUT ANY VERTICAL REINFORCING IN CMU WALLS. OBTAIN PRIOR APPROVAL FROM ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE.
33. **CONCRETE BEARING WALLS AND BEAMS:** DO NOT PENETRATE CONCRETE WALLS INDICATED AS BEARING WALLS AND SHEAR WALLS ON STRUCTURAL DRAWINGS UNLESS NOTED OTHERWISE ON PLAN. DO NOT CORE THROUGH CONCRETE BEAMS , GIRDERS, OR COLUMNS. DO NOT CUT ANY VERTICAL REINFORCING IN CONCRETE WALLS. OBTAIN PRIOR APPROVAL FROM STRUCTURAL ENGINEER BEFORE PENETRATING ANY OF THE STRUCTURAL ELEMENTS LISTED ABOVE.
34. **STEEL FRAMING:** DO NOT CUT OR CORE THROUGH ANY STRUCTURAL STEEL BEAMS, GIRDERS, OR COLUMNS UNLESS NOTED OTHERWISE ON PLAN. NOTIFY ENGINEER OF POTENTIAL CONFLICTS BETWEEN FRAMING AND ELECTRICAL WORK.
35. **CONCRETE FLOOR SYSTEMS (APPLIES TO CONCRETE BLDG. OR STEEL WITH CONCRETE DECK, MASONRY W/ CONC. FLOOR):** DO NOT CUT HOLES OR CORE THROUGH CONCRETE FLOOR SLAB UNLESS NOTED OTHERWISE ON PLAN OR IN TYPICAL STRUCTURAL DETAILS. PENETRATIONS THROUGH EXISTING SLABS SHALL BE X-RAYED PRIOR TO CORING HOLES. NO EXISTING REINFORCEMENT SHALL BE CUT WITHOUT PERMISSION OF THE STRUCTURAL ENGINEER. PENETRATIONS THROUGH EXISTING BEAMS AND COLUMNS IS NOT PERMITTED.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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N

CONSTRUCTION DOCUMENTS

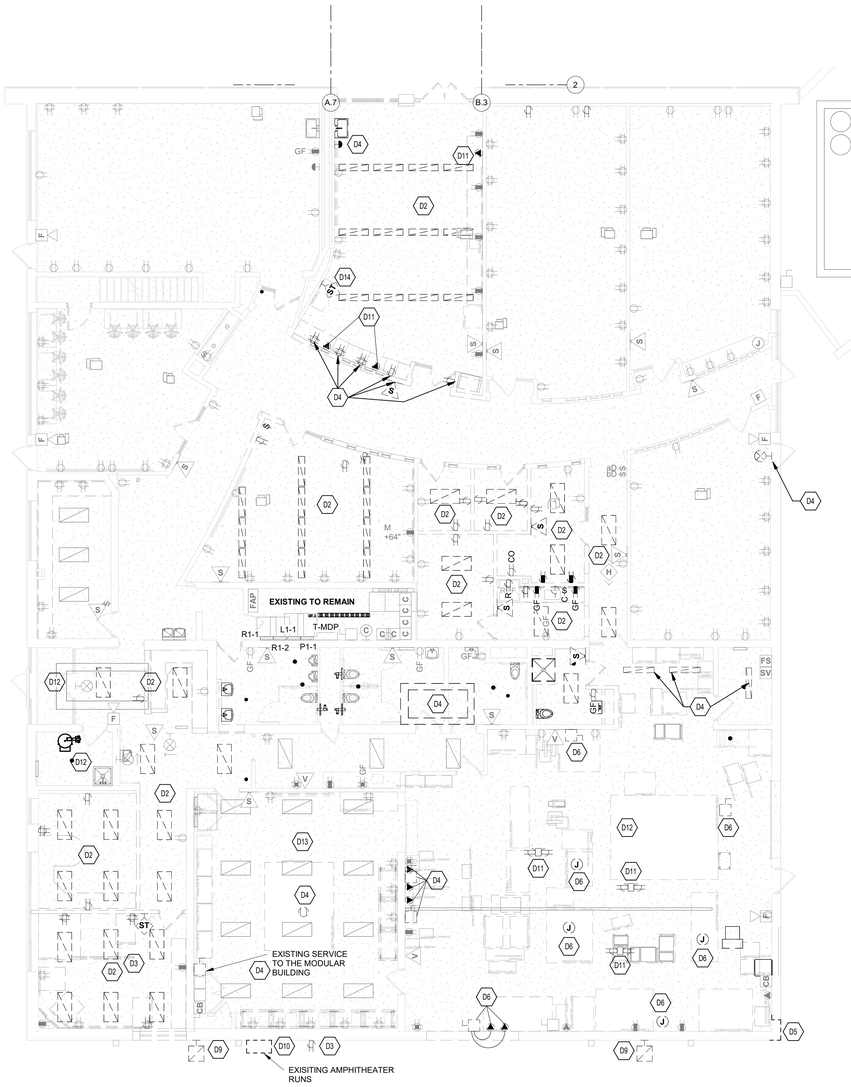
STATE OF OHIO
MARK Z. HOPF
E-79009
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: RJG
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

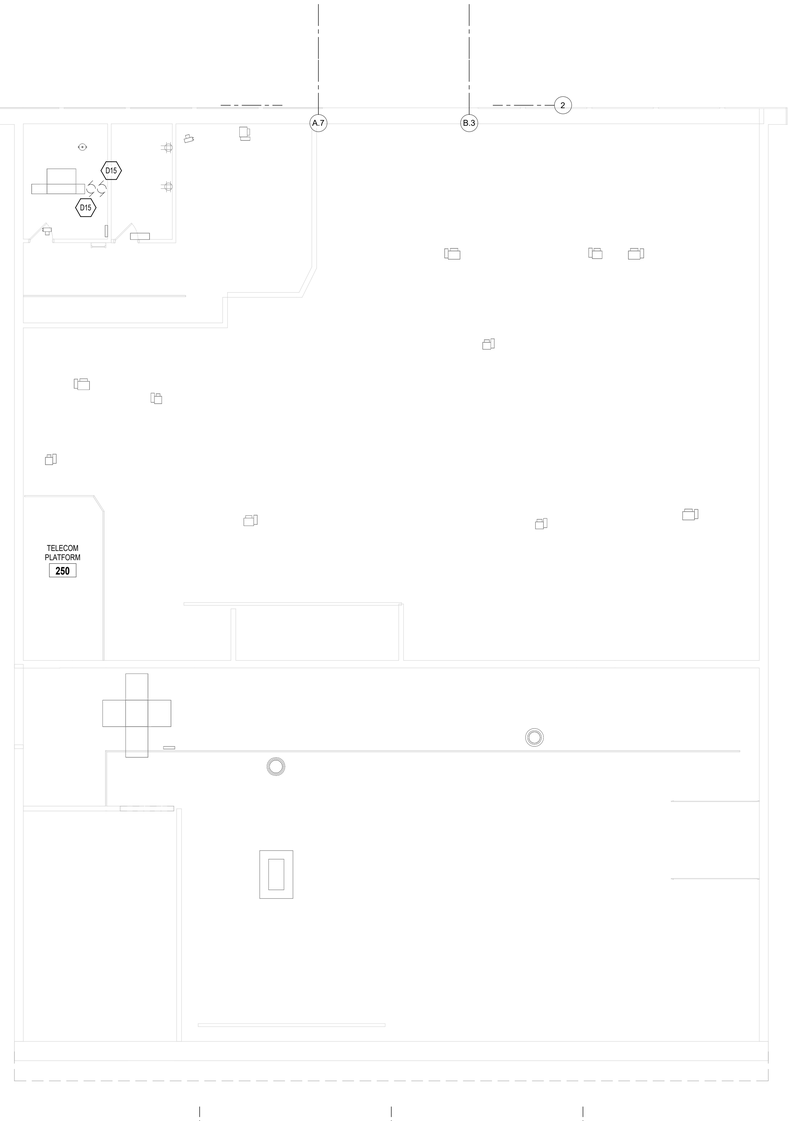
ELECTRICAL SYMBOLS & ABBREVIATIONS

E-001



FIRST FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR DEMOLITION PLAN

SCALE: 1/8" = 1'-0"

DEMOLITION PLAN GENERAL NOTES

1. ALL EQUIPMENT REPRESENTED WITH A DASHED-LINE AND/OR SOLID BLACK LINE INDICATES 'FOR DEMOLITION'. REMOVE EQUIPMENT AND BRANCH CIRCUITS BACK TO EXISTING TO REMAIN.
2. ASSUME ELECTRICAL EQUIPMENT IS TO REMAIN AS EXISTING IF SHOWN HALFTONE OR NOT SHOWN ON PLAN, UNLESS NOTED OTHERWISE.

SHEET KEYNOTES

D2	REMOVE ALL LIGHTING FIXTURES AND LIGHTING DEVICES IN THIS SPACE. TIE BACK EXISTING LIGHTING CIRCUIT FOR REUSE. PROVIDE BLANK COVERS AS NECESSARY.
D3	REMOVE ALL EQUIPMENT CONNECTIONS AND CIRCUITS BACK TO SOURCE COMPLETE. PROVIDE BLANK COVERS IF NECESSARY.
D4	REMOVE EQUIPMENT AND CONNECTIONS BACK TO SOURCE COMPLETE.
D5	REMOVE EXTERIOR EXISTING FEED BACK TO THE BREAKER BOX.
D6	REMOVE EQUIPMENT, CONDUIT, WIRE ETC. BACK TO BUSPLUG AND SEE SHEET "EP11" FOR NEW LOCATION.
D9	REMOVE EXTERIOR LIGHT FIXTURE, WIRE, CONDUIT ETC FOR MOVING. SEE SHEET "EL11" FOR NEW LOCATION.
D10	PULL BACK THE AMPHITHEATER POWER RUN AND EXTEND TO BE RELOCATED TO THE SOUTH ADDITION ELECTRICAL ROOM AFTER CONSTRUCTION.
D11	SALVAGE ALL EQUIPMENT CONNECTIONS, WIRE, CONDUITS ETC. FOR RELOCATION.
D12	EXISTING LIGHTING TO REMAIN, UNO.
D13	EXISTING LIGHTING IS TO BE REMOVED AND RE-INSTALLED AT EXISTING LOCATIONS IN NEW CEILING. SALVAGE ALL CONNECTIONS WIRE AND CONDUIT FOR REUSE AFTER THE CONSTURUCTION OF THE NEW CEILING.
D14	REMOVE ALL EQUIPMENT CONNECTIONS AND CIRCUITS BACK TO SOURCE COMPLETE. PATCH THE WALL
D15	EXISITNG PUMPS TO BE REMOVED. DISCONNECT THE ELECTRICAL EQUIPMENT FROM OLD PUMPS IN PREPARATION FOR NEW PUMPS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK
E. HOPE
E-79009
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: RJG

PROJECT NUMBER: 224102.00

PROJECT ISSUE DATE: 09.04.2026

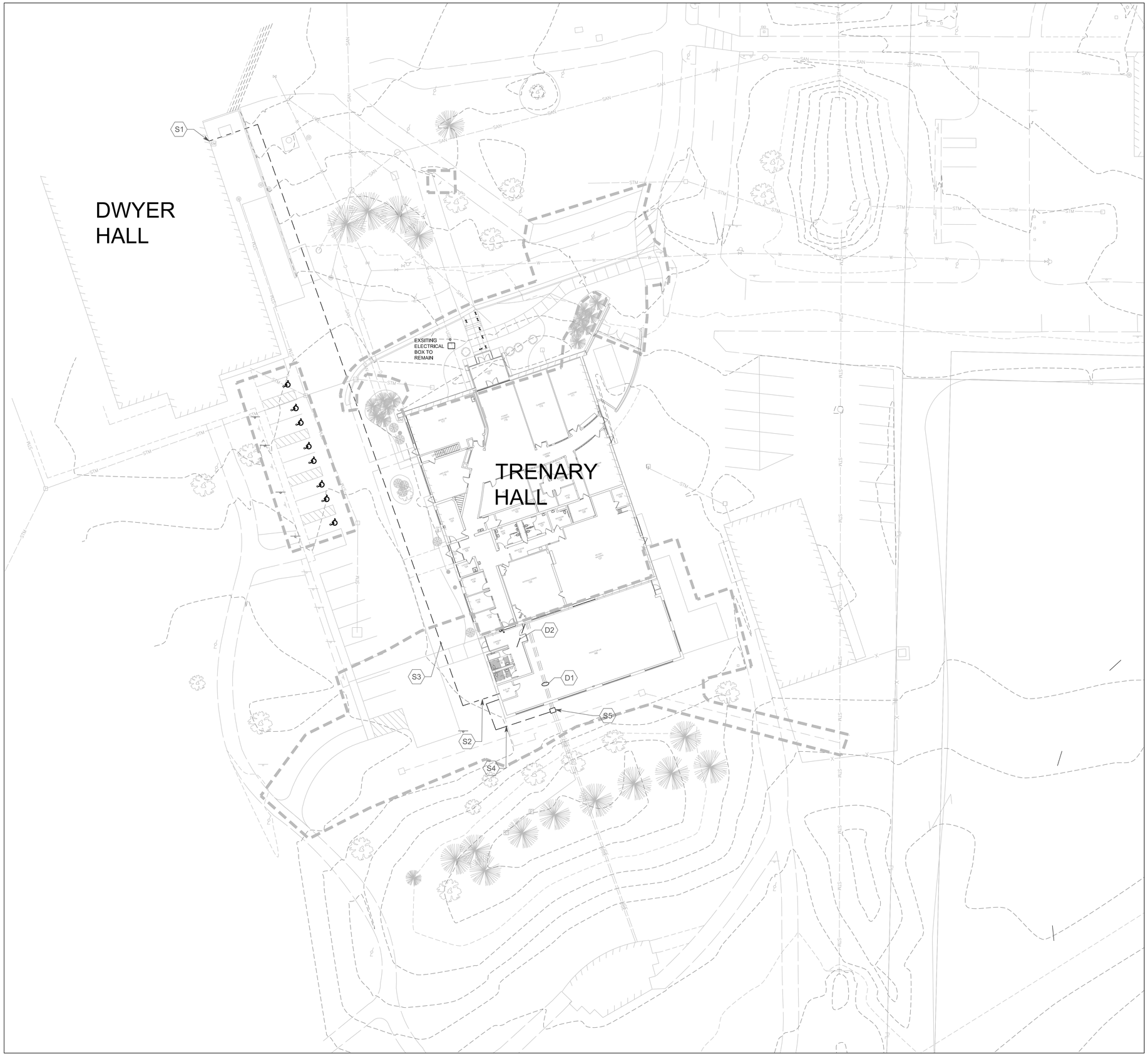
REV. NO.	DESCRIPTION	DATE

DEMOLITION PLANS

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PLAN NOTES:

- S1 CONNECTION TO MAIN DISTRIBUTION SYSTEM FOR TRENARY HALL ADDITIONS, LOCATED IN DWYER HALL RM 136. REFER TO SHEET E-701 FOR CONDUIT AND WIRING INFORMATION.
- S2 CONNECTION FROM MAIN DISTRIBUTION SYSTEM TO NEW DISTRIBUTION EQUIPMENT FOR TRENARY HALL. EQUIPMENT LOCATED IN TRENARY HALL RM 141. REFER TO SHEET E-701 FOR CONDUIT AND WIRING INFORMATION.
- S3 REFER TO SHEET E-501 DETAIL 1D FOR DUCT BANK INFORMATION.
- S4 NEW ROUTING OF CONDUITS. PROVIDE EVERYTHING NEEDED FOR THE REROUTING OF THE CONDUITS TO THE AMPHITHEATER AND THE POWER AND DATA RECEPTACLES IN THE TREES AND CONNECTING IT TO THE EXISTING CONDUIT.
- S5 PROVIDE A MINIMUM 24" X 30", 30" DEEP IN-GRADE HANDHOLE.
- D1 EXISTING CONDUIT TO BE DUG UP AND REROUTED. PULL WIRE BACK AS NECESSARY FOR THE REROUTING. SEE SHEET "EP11" FOR WHERE THE CONDUIT IS SUPPOSE TO BE REROUTED IN THE BUILDING. SEE SHEET "ES101" FOR THE REROUTING OF THE FEED.
- D2 EXISTING CONDUIT TO THE BUILDING TO BE DUG UP AND DEMOLISHED

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

7600 STATE ROUTE 73
CELINA, OH 45822

WRIGHT STATE UNIVERSITY

ARCHITECT

FANNING HOWEY

419-586-7771 WWW.FHAI.COM
128 W MARKET ST, CELINA, OH 45822

KEY PLAN

CONSTRUCTION DOCUMENTS

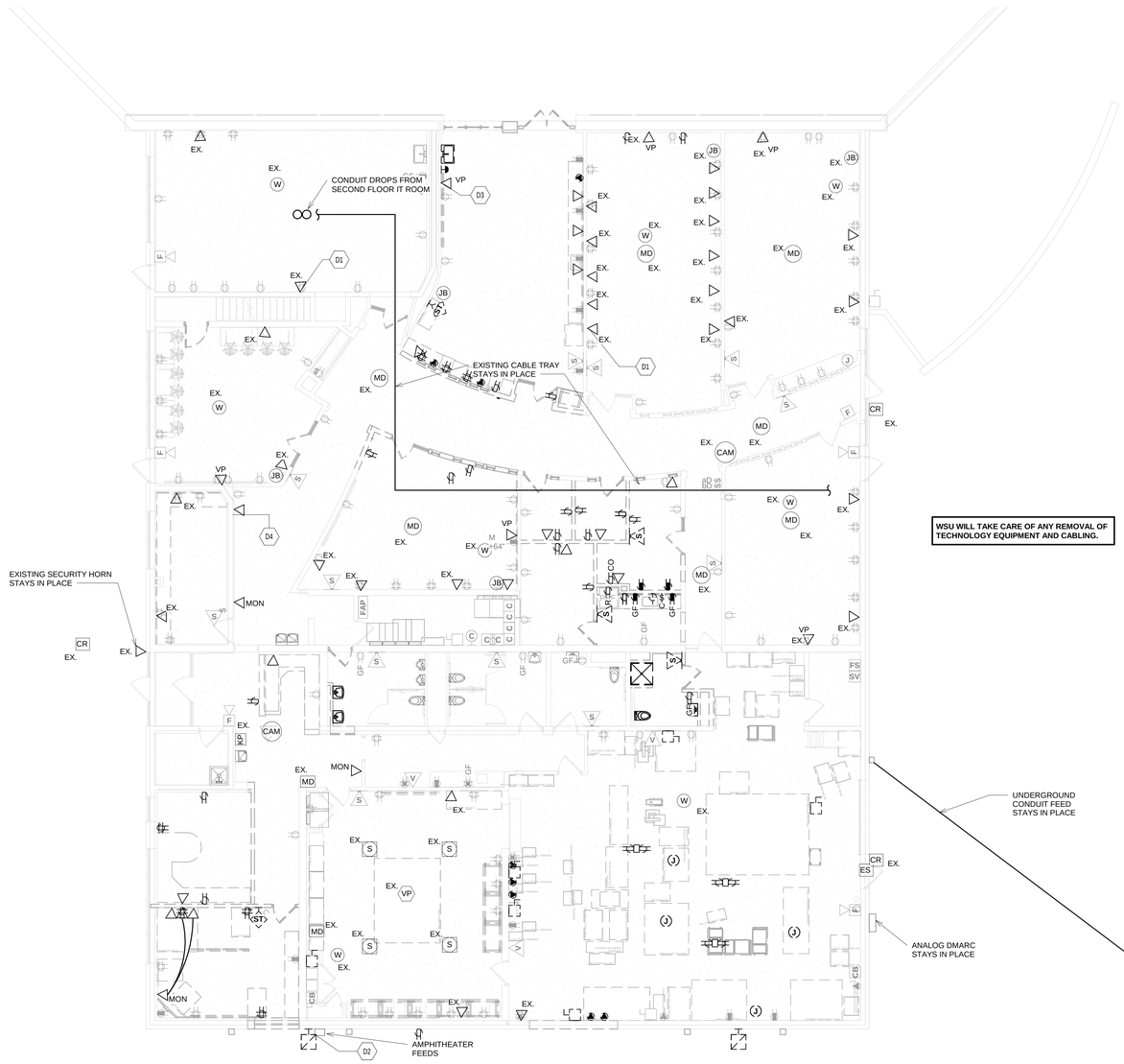
STATE OF OHIO
MARK Z. HOPE
E-79009
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: RJG
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09/03/2026

REV. NO.△	DESCRIPTION	DATE

ELECTRICAL SITE PLAN

ES101



1 TECHNOLOGY ROUGH-IN DEMO PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY ROUGH-IN DEMO GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. CABLE TRY SHALL BE A CONTINUOUS ALUMINUM CABLE TRAY SYSTEM AND SHALL BE INSTALLED ON EACH FLOOR. TRAY SIZE SHALL BE 12" WIDE BY 4" DEEP WITH 1" RUNGS SPACED EVERY 9". WHEN MAKING TURNS AND ELEVATION CHANGES THE APPROPRIATE TRAY ACCESSORIES, HAVING THE PROPER BEND RADIUS, SHALL BE USED. THIS TRAY SYSTEM SHALL HAVE 6" MIN. UNOBSTRUCTED CLEARANCE ABOVE THE TRAY MEASURED FROM THE TOP MOST SURFACE OF THE TRY AND A 12' MIN. CLEARANCE ALONG THE SIDE. THERE SHALL BE NO OTHER EQUIPMENT, DUCTWORK, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE TRAYS. CABLE TRAY SHALL NOT RUN THROUGH WALLS.

C. REFERENCE WRIGHT STATE UNIVERSITY CONSTRUCTION ELECTRICAL SPECIFICATIONS FOR COLOR IDENTIFICATION OF ALL CONDUITS.

D. CONDUIT FROM THE CABLE TRAY TO A TYPICAL WALL OUTLET SHOULD BE A MINIMUM OF 1-1/4". EACH 1-1/4" CONDUIT WILL SERVICE ONLY ONE WALL OUTLET LOCATION. THE CONDUIT WILL BE TERMINATED IN A 5" X 5" x 2.75" DEEP BOX WITH A PULL STRING. THE BOX SHALL BE FITTED WITH A DOUBLE GANG MUD RING. OUTLETS ARE TYPICALLY LOCATED AT THE FOLLOWING HEIGHTS TO CENTER:
□ Desks 18" AFF □ Wall Phones 48" AFF □ Pay Phones 48" AFF

E. CONDUITS RUN TO THE CABLE TRAY SHOULD END APPROXIMATELY 4"-6" AWAY FROM THE TOP OR BOTTOM EDGE OF THE CABLE TRAY TO MAINTAIN A PROPER BEND RADIUS. FLEXIBLE CONDUIT SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL HAS BEEN GIVEN BY WSU CaTS PERSONNEL.

F. EACH STANDARD OFFICE SHALL HAVE A MINIMUM OF TWO (2) WORK STATION LOCATIONS, ONE ON EACH WALL PERPENDICULAR TO THE WALL THAT HAS THE DOOR IN IT. THE WORK STATION LOCATIONS SHOULD BE THREE (3) FEET FROM THE BACK WALL (THE WALL OPPOSITE FROM THE WALL WITH THE DOOR IN IT).

G. EXTERIOR CAMERAS SHALL HAVE A FLUSH MOUNTED 4" SQUARE BOX 2-1/8" DEEP AT THE CAMERA LOCATION WITH A 1" CONDUIT TO THE NEAREST CABLE TRAY.

H. EACH CLASSROOM WILL VARY ON A CASE BY CASE BASIS.
□ Conduits for data cabling to be 1-1/4".
□ WALL PHONE LOCATION 48" AFF WITH 4" SQUARE BOX 2 1/8" DEEP WITH A SINGLE-GANG MUD RING AND 1-1/4" CONDUIT TO CABLE TRAY.
□ PREFERRED FLOOR BOX IS FSR FL-2000 SERIES.

ROUGH-IN DEMO PLAN NOTES (X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
D1	ALL DATA WIRING AND CONNECTIONS THAT ARE NOT MARKED WITH THE LETTERS EX WILL BE REMOVED BY THE OWNER. EXISTING DATA LOCATIONS THAT ARE MARKED WITH EX SHALL REMAIN IN PLACE.
D2	PULL BACK ANY EXISTING NETWORK, PAGING OR CAMERA CABLING FROM THE EXISTING AMPHITHEATER CONDUIT LOCATIONS AND THEN EXTEND TO RELOCATE TO SOUTH ADDITION #141 ELECTRICAL ROOM FEED AFTER CONSTRUCTION. REFER TO SHEETS ET11 AND ES101.
D3	OWNER WILL REMOVE EXISTING SHORT THROW PROJECTOR AND ASSOCIATED EQUIPMENT/CABLING.
D4	WSU WILL TAKE CARE OF ANY IT EQUIPMENT AND CABLING REMOVAL.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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ARCHITECT

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOFE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

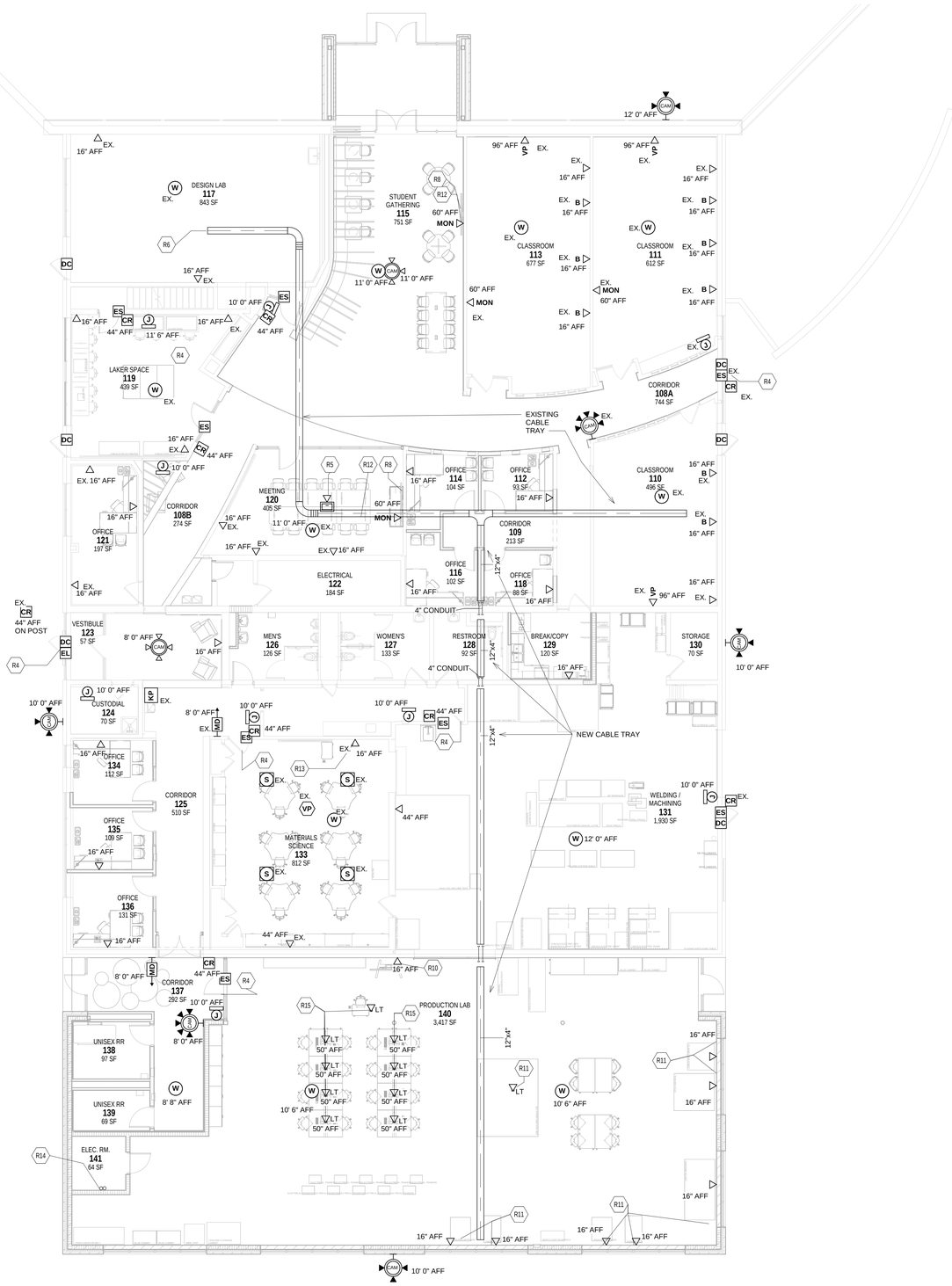
PROJECT MANAGER: RW
DRAWN BY: CDT
PROJECT NUMBER: FH224102.00WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

TECHNOLOGY ROUGH-IN DEMO PLAN

ETD1

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1 TECHNOLOGY ROUGH-IN PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND

ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)
FIRST FLOOR			
107	107	VESTIBULE	230 SF
108A	COR100	CORRIDOR	744 SF
108B	COR101	CORRIDOR	274 SF
109	COR102	CORRIDOR	213 SF
110	110	CLASSROOM	496 SF
111	111	CLASSROOM	612 SF
112	114D	OFFICE	93 SF
113	113	CLASSROOM	677 SF
114	114C	OFFICE	104 SF
115	115	STUDENT GATHERING	751 SF
116	114B	OFFICE	102 SF
117	117	DESIGN LAB	843 SF
118	114A	OFFICE	88 SF
119	119	LAKER SPACE	439 SF
120	120	MEETING	405 SF
121	121	OFFICE	197 SF
122	122A	ELECTRICAL	184 SF
123	123	VESTIBULE	57 SF
124	125	CUSTODIAL	70 SF
125	COR104	CORRIDOR	510 SF
126	124M	MEN'S	126 SF
127	124W	WOMEN'S	133 SF
128	126	RESTROOM	92 SF
129	112	BREAK/COPY	120 SF
130	133A	STORAGE	70 SF
131	133	WELDING / MACHINING	1930 SF
132	128	BREAK ROOM	190 SF
133	130	MATERIALS SCIENCE	812 SF
134	127	OFFICE	112 SF
135	129	OFFICE	109 SF
136	131	OFFICE	131 SF
137	COR105	CORRIDOR	292 SF
138	138	UNISEX RR	97 SF
139	139	UNISEX RR	69 SF
140	140	PRODUCTION LAB	3417 SF
141	140A	ELEC. RM.	64 SF

TECHNOLOGY ROUGH-IN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. CABLE TRY SHALL BE A CONTINUOUS ALUMINUM CABLE TRAY SYSTEM AND SHALL BE INSTALLED ON EACH FLOOR. TRAY SIZE SHALL BE 12" WIDE BY 4" DEEP WITH 1" RUNGS SPACED EVERY 9". WHEN MAKING TURNS AND ELEVATION CHANGES THE APPROPRIATE TRAY ACCESSORIES, HAVING THE PROPER BEND RADIUS, SHALL BE USED. THIS TRAY SYSTEM SHALL HAVE 6" MIN. UNOBSTRUCTED CLEARANCE ABOVE THE TRAY MEASURED FROM THE TOP MOST SURFACE OF THE TRY AND A 12' MIN. CLEARANCE ALONG THE SIDE. THERE SHALL BE NO OTHER EQUIPMENT, DUCTWORK, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE TRAYS. CABLE TRAY SHALL NOT RUN THROUGH WALLS.

C. REFER TO PAGE 3 I Part FOUR 26 OF THE WRIGHT STATE UNIVERSITY CONSTRUCTION ELECTRICAL SPECIFICATIONS FOR COLOR IDENTIFICATION OF ALL CONDUITS.

D. CONDUIT FROM THE CABLE TRAY TO A TYPICAL WALL OUTLET SHOULD BE A MINIMUM OF 1-1/4". EACH 1-1/4" CONDUIT WILL SERVICE ONLY ONE WALL OUTLET LOCATION. THE CONDUIT WILL BE TERMINATED IN A 4 5" X 5" x 2.75" DEEP BOX WITH A PULL STRING. THE BOX SHALL BE FITTED WITH A DOUBLE GANG MUD RING. OUTLETS ARE TYPICALLY LOCATED AT THE FOLLOWING HEIGHTS TO CENTER:
□ Desks 18" AFF □ Wall Phones 48" AFF □ Pay Phones 48" AFF

E. CONDUITS RUN TO THE CABLE TRAY SHOULD END APPROXIMATELY 4"-6" AWAY FROM THE TOP OR BOTTOM EDGE OF THE CABLE TRAY TO MAINTAIN A PROPER BEND RADIUS. FLEXIBLE CONDUIT SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL HAS BEEN GIVEN BY WSU CaTS PERSONNEL.

F. EACH STANDARD OFFICE SHALL HAVE A MINIMUM OF TWO (2) WORK STATION LOCATIONS, ONE ON EACH WALL PERPENDICULAR TO THE WALL THAT HAS THE DOOR IN IT UNO. THE WORK STATION LOCATIONS SHOULD BE THREE (3) FEET FROM THE BACK WALL (THE WALL OPPOSITE FROM THE WALL WITH THE DOOR IN IT).

G. EXTERIOR CAMERAS SHALL HAVE A FLUSH MOUNTED 4" SQUARE BOX 2-1/8" DEEP AT THE CAMERA LOCATION WITH A 1" CONDUIT TO THE NEAREST CABLE TRAY.

H. EACH CLASSROOM WILL VARY ON A CASE BY CASE BASIS.
□ Conduits for data cabling to be 1-1/4".
□ WALL PHONE LOCATION 48" AFF WITH 4" SQUARE BOX 2 1/8" DEEP WITH A SINGLE-GANG MUD RING AND 1-1/4" CONDUIT TO CABLE TRAY.
□ PREFERRED FLOOR BOX IS FSR FL-2000 SERIES.

ROUGH-IN PLAN NOTES

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
R4	ROUGH IN DOOR CONTROL CABLE PATHWAY FOR ALL CONTROL/MONITORING HARDWARE TO ALL EXTERIOR DOORS ACCORDING TO WSU STANDARDS. REFER TO ET DETAILS FOR MORE INFORMATION.
R5	PROVIDE 1-1/4" CONDUIT FROM FSR FL-2000 SERIES FLOOR BOX WALL UP TO CABLE TRAY. REFER TO DETAILS FOR INFO.
R6	TWO 4" CONDUITS GOING FROM THE EXISTING SECOND FLOOR TECH ROOM TO ABOVE FIRST FLOOR CEILING SPACE.
R8	PROVIDE WALL BLOCKING, POWER, AND TECH ROUGHIN FOR A LARGE VIDEO MONITOR.
R10	LOCATION FOR MOBILE MONITOR SHALL INCLUDE POWER AND TECH ROUGHIN.
R11	PLC LOCATIONS WILL NEED POWER AND TECH ROUGHIN PATHWAYS. TECH SHALL FOLLOW THE SAME PATHWAY AS POWER IN A SEPERATE PATHWAY. CONFIRM NEEDS WITH MANUFACTURER SPECS.
R12	PROVIDE POWER AND TECH ROUGHIN FOR 86" MONITOR.
R13	ANY LOCATIONS MARKED WITH THE EX (EXISTING) ARE TO REMAIN UNCHANGED DURING CONSTRUCTION.
R14	LOCATION OF THE NEW AMPHITHEATER CONDUIT FEED FOR DATA TO BE REROUTED. REFER TO DRAWING ES101 FOR DETAILS.
R15	THIS LOCATION SHALL BE 1" LIQUIDTIGHT FLEXIBLE CONDUIT, NON-METALLIC, GRAY. SECURED TO STRUCTURE AND DROPPED DOWN TO WORKSTATION HEIGHT (50" AFF). WORKSTATION END SHALL CONTAIN ALUMINUM, RECTANGULAR, 1 GANG, 1 in HUB SIZE, GRAY BOX ATTACHED BY A LIQUIDTIGHT BOX CONNECTOR. INTENT IS FOR LOCATION TO BE CAPABLE OF BEING COILED IN CEILING WHEN NOT IN USE.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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WRIGHT STATE UNIVERSITY

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

PROJECT MANAGER: RW
DRAWN BY: CDT
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

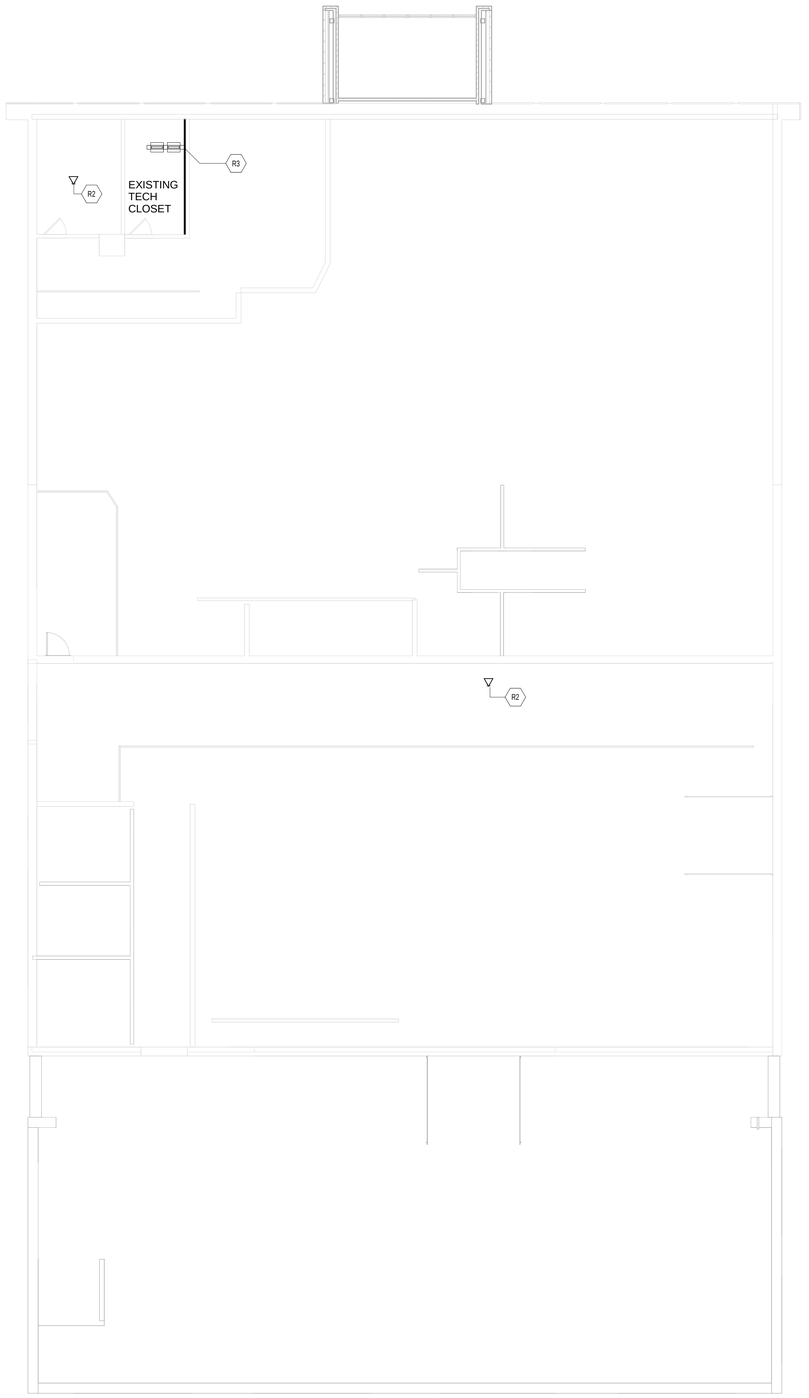
REV. NO.	DESCRIPTION	DATE

FIRST FLOOR TECHNOLOGY ROUGH-IN PLAN

ET11

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)



1 SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN

SCALE: 1/8" = 1'-0"

TECHNOLOGY ROUGH-IN GENERAL NOTES

A. DEVICES SHALL BE INSTALLED AT LOCATIONS SHOWN ON DRAWINGS. LOCATIONS OF DEVICES SHALL BE COORDINATED WITH OTHER ELECTRICAL DEVICES/ CASEWORK/ ARCHITECTURAL FEATURES AND OTHER TRADES PRIOR TO ROUGH-IN. IF RELOCATION OF DEVICES IS REQUIRED DUE TO LACK OF COORDINATION BETWEEN ELECTRICAL DRAWINGS AND OTHER TRADES, ANY ASSOCIATED COSTS SHALL BE RESPONSIBILITY OF ELECTRICAL CONTRACTOR.

B. CABLE TRY SHALL BE A CONTINUOUS ALUMINUM CABLE TRAY SYSTEM AND SHALL BE INSTALLED ON EACH FLOOR. TRAY SIZE SHALL BE 12" WIDE BY 4" DEEP WITH 1" RUNGS SPACED EVERY 9". WHEN MAKING TURNS AND ELEVATION CHANGES THE APPROPRIATE TRAY ACCESSORIES, HAVING THE PROPER BEND RADIUS, SHALL BE USED. THIS TRAY SYSTEM SHALL HAVE 6" MIN. UNOBSTRUCTED CLEARANCE ABOVE THE TRAY MEASURED FROM THE TOP MOST SURFACE OF THE TRY AND A 12" MIN. CLEARANCE ALONG THE SIDE. THERE SHALL BE NO OTHER EQUIPMENT, DUCTWORK, LIGHTS, CONDUITS, FIXTURES, ETC. ATTACHED TO, MOUNTED ON, RUNNING THROUGH OR ON THE TRAYS. CABLE TRAY SHALL NOT RUN THROUGH WALLS.

C. REFER TO PAGE 3 I Part FOUR 26 OF THE WRIGHT STATE UNIVERSITY CONSTRUCTION ELECTRICAL SPECIFICATIONS FOR COLOR IDENTIFICATION OF ALL CONDUITS.

D. CONDUIT FROM THE CABLE TRAY TO A TYPICAL WALL OUTLET SHOULD BE A MINIMUM OF 1-1/4". EACH 1-1/4" CONDUIT WILL SERVICE ONLY ONE WALL OUTLET LOCATION. THE CONDUIT WILL BE TERMINATED IN A 5" X 5" x 2.75" DEEP BOX WITH A PULL STRING. THE BOX SHALL BE FITTED WITH A DOUBLE GANG MUD RING. OUTLETS ARE TYPICALLY LOCATED AT THE FOLLOWING HEIGHTS TO CENTER:
- Desks 18" AFF
- Wall Phones 48" AFF
- Pay Phones 48" AFF

E. CONDUITS RUN TO THE CABLE TRAY SHOULD END APPROXIMATELY 4"-6" AWAY FROM THE TOP OR BOTTOM EDGE OF THE CABLE TRAY TO MAINTAIN A PROPER BEND RADIUS. FLEXIBLE CONDUIT SHALL NOT BE PERMITTED UNLESS PRIOR APPROVAL HAS BEEN GIVEN BY WSU CaTS PERSONNEL.

F. EACH STANDARD OFFICE SHALL HAVE A MINIMUM OF TWO (2) WORK STATION LOCATIONS, ONE ON EACH WALL PERPENDICULAR TO THE WALL THAT HAS THE DOOR IN IT UNO. THE WORK STATION LOCATIONS SHOULD BE THREE (3) FEET FROM THE BACK WALL (THE WALL OPPOSITE FROM THE WALL WITH THE DOOR IN IT).

G. EXTERIOR CAMERAS SHALL HAVE A FLUSH MOUNTED 4" SQUARE BOX 2-1/8" DEEP AT THE CAMERA LOCATION WITH A 1" CONDUIT TO THE NEAREST CABLE TRAY.

H. EACH CLASSROOM WILL VARY ON A CASE BY CASE BASIS.
- Conduits for data cabling to be 1-1/4".
- WALL PHONE LOCATION 48" AFF WITH 4" SQUARE BOX 2 1/8" DEEP WITH A SINGLE-GANG MUD RING AND 1-1/4" CONDUIT TO CABLE TRAY.
- PREFERRED FLOOR BOX IS FSR FL-2000 SERIES.

ROUGH-IN PLAN NOTES

(X)

(ALL NOTES MAY NOT BE INDICATED ON THIS SHEET)

#	NOTE
R2	PROVIDE A DATA ROUGHIN PATHWAY TO THE BAS CONTROL PANELS. COORDINATE PLACEMENT WITH HVAC CONTRACTOR.
R3	LOCATION OF EXISTING DATA TWO POST RACKS AND EXISTING PLYWOOD BACKBOARDS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK
Z.
HOPE
E-79009
REGISTERED
PROFESSIONAL ENGINEER

PROJECT MANAGER: RW
DRAWN BY: CDT
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

SECOND FLOOR TECHNOLOGY ROUGH-IN PLAN

ET21

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COMMUNICATIONS ROUGH-IN SYMBOLS

SYMBOL	DESCRIPTION	MH UNO	ROUGH-IN DETAIL #
EX.	**ANY LOCATION SHOWN ON ETD1 WITH THE "EX." REFERENCE DEPICTS EXISTING LOCATIONS, EQUIPMENT THAT SHALL REMAIN DURING CONSTRUCTION. THIS CONTRACTOR SHALL BE RESPONSIBLE IF THESE LOCATIONS/EQUIPMENT NEED TO BE REMOVED/REINSTALLED FOR SAFETY DURING CONSTRUCTION.**		ET11
◁	COMMUNICATIONS OUTLET. 1" CONDUIT WILL SERVICE ONLY ONE WALL OUTLET LOCATION. THE CONDUIT WILL BE TERMINATED IN A 4 ¼ x 4 ¼ x 2.75" DEEP BOX WITH A PULL STRING. THE BOX SHALL BE FITTED WITH EITHER A SINGLE OR DOUBLE GANG MUD RING TO SUIT THE OUTLET CONFIGURATION REQUIRED.	MIN HEIGHT TO CENTER DESK - 18"	ET51
◁W	WALL MOUNTED COMMUNICATIONS OUTLET. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	MIN HEIGHT TO CENTER WP - 48"	ET51
◁MON	WALL MOUNTED MONITOR. SHALL HAVE A FSR PWB-100 WALL BOX WITH A 120 VOLT TVSS RECEPTACLE ON A DEDICATED 20 AMP CIRCUIT WITH A 1" CONDUIT FROM THE LOW VOLTAGE COMPARTMENT TO THE NEAREST CABLE TRAY AND SUFFICIENT BLOCKING TO SUPPORT THE DISPLAY (REFER TO ELECTRICAL SPECIFICATIONS). FINAL LOCATION HEIGHT WILL BE DETERMINED BY WSU.	-	ET52
◁VP	WALL MOUNTED VIDEO PROJECTOR. (REFER TO ELECTRICAL SPECIFICATIONS), FINAL LOCATION HEIGHT WILL BE DETERMINED BY WSU. ALL A/V EQUIPMENT TO BE PROVIDED AND INSTALLED BY WSU-CaTS.	-	ET51
VP	CEILING MOUNTED PROJECTOR. PROVIDE AND INSTALL VIDEO PROJECTOR MOUNTING PIPE AND ACCESSORIES, FINAL LOCATION HEIGHT WILL BE DETERMINED BY WSU. ALL A/V EQUIPMENT TO BE PROVIDED AND INSTALLED BY WSU-CaTS.	-	ET52
S	CEILING MOUNTED DISTRIBUTED SOUND SYSTEM SPEAKERS. ALL A/V EQUIPMENT TO BE PROVIDED AND INSTALLED BY WSU-CaTS.	-	-
	MULTI CAPACITY FLOOR BOX (FSR FL-640P-8") WITH 1 (ONE) 1-1/2" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING TO CABLE TRAY AND ONE (1) 1-1/2" CONDUIT TO MONITOR FSR WALL BOX. PROVIDE PLASTIC BUSHINGS AND PULL STRINGS.	F	ET51
W	WALL MOUNTED WIRELESS ACCESS POINT. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	10'-0"	-
W	CEILING MOUNTED WIRELESS ACCESS POINT. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. WITH 1 (ONE) 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	C	-
LT	CEILING MOUNTED 1" LIQUIDTIGHT FLEXIBLE CONDUIT, NON-METALLIC, GRAY. SECURED TO STRUCTURE AND DROPPED DOWN TO WORKSTATION HEIGHT. WORKSTATION END SHALL CONTAIN ALUMINUM, RECTANGULAR, 1 GANG, 1 in HUB SIZE, GRAY BOX ATTACHED BY A LIQUIDTIGHT BOX CONNECTOR.		
	CABLE TRAY - MINIMUM TRAY SIZE SHALL BE 12" x 4" DEEP WITH 1" RUNGS EVERY 9" - UNLESS OTHERWISE NOTED	-	ET51
	1-1/2" CONDUIT SLEEVES BETWEEN WALLS, UNLESS OTHERWISE NOTED. SLEEVES USED AT WALL TRANSITION POINTS FOR CABLE TRAY SYSTEMS SHALL BE 4".	-	-
○ ○	2 (TWO) 4" CONDUIT SLEEVES BETWEEN FLOORS	-	-
	4' x 8' x 3/4" FIRE RATED PLYWOOD	-	-
	REFERENCE WRIGHT STATE UNIVERSITY CONSTRUCTION ELECTRICAL SPECIFICATIONS FOR COLOR IDENTIFICATION FOR ALL CONDUITS. CONDUITS RUN TO THE CABLE TRAY SHOULD END 4"-6" AWAY FROM THE TOP OR BOTTOM EDGE OF CABLE TRAY. Voice/Data/video/security Blue/ (PPG#12809)	-	-
	REFERENCE WRIGHT STATE UNIVERSITY CONSTRUCTION ELECTRICAL SPECIFICATIONS FOR SPECIFIC SURFACE MOUNTED RACEWAY SPECIFICATIONS.	-	-
	WSU CaTS installs all of the Structured Cabling (Voice/Data/CATV), Phone System (Headend & Handsets), Network Electronics, WLAN (Headend and AP's) & Audio/Visual Equipment. The Contractor should only install Infrastructure (Box, Conduit & Power) to support the Owner Furnished Equipment		

ACCESS CONTROL ROUGH-IN SYMBOLS

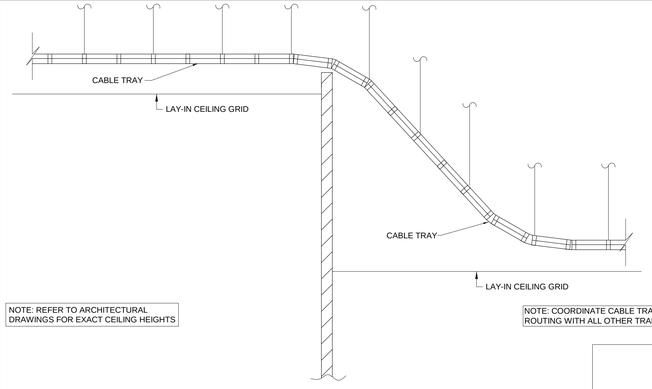
SYMBOL	DESCRIPTION	MH UNO	ROUGH-IN DETAIL #
CR	CARD READER. 3/4" CONDUIT FROM JUNCTION BOX SHALL TERMINATE IN A 4" SQUARE BOX 2-1/8" DEEP WITH A SINGLE GANG MUD RING.	42" AFF	ET51
ES	ELECTRONIC STRIKE. 3/4" CONDUIT FROM JUNCTION BOX SHALL TERMINATE IN THE DOOR FRAME BEHIND THE STRIKE POCKET AND LEAVE ADEQUATE ROOM FOR CABLING CONNECTIONS AND ELECTRIC DOOR STRIKE HARDWARE.	-	ET51
EL	ELECTRONIC LATCH. 3/4" CONDUIT FROM JUNCTION BOX SHALL TERMINATE IN THE DOOR FRAME BEHIND THE CENTER HINGE AND LEAVE ADEQUATE ROOM FOR CABLING CONNECTIONS TO THE WIRED HINGE.	-	ET51
J	6" W x 6" H x 4" D JUNCTION BOX ABOVE DOOR WITH A 1" CONDUIT TO THE NEAREST CABLE TRAY FOR ACCESS CONTROL. FROM THIS BOX 3/4" CONDUITS WILL FEED THE DOOR STRIKE, CENTER DOOR HINGE, DOOR CONTACT AND CARD READER.	ABOVE CLG.	ET51
ADO	AUTOMATIC DOOR OPERATOR, 3/4" CONDUIT TO JUNCTION BOX ABOVE DOOR	-	-
DC	DOOR CONTACT. 3/4" SHALL TERMINATE IN THE TOP OF THE DOOR FRAME APPROXIMATELY 3" FROM THE STRIKE SIDE OF THE JAMB WITH A 3/4" HOLE IN THE JAM FOR A RECESSED DOOR CONTACT. DOUBLE DOOR LOCATIONS SHALL BE DOOR CONTRACT LOCATIONS ON EACH DOOR.	-	ET51
KP	KEYPAD. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED ABOVE ACCESSIBLE CEILING WITH PLASTIC BUSHING AND PULL STRING.	44"	-
MD	WALL MOUNTED MOTION DETECTOR. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED TO NEAREST CABLE TRAY	NOTED ON DWGS	-
MD	CEILING MOUNTED MOTION DETECTOR. 2 GANG, 3.5" DEEP BOX WITH 1 GANG MUD RING. 1" CONDUIT STUBBED TO NEAREST CABLE TRAY	NOTED ON DWGS	-

VIDEO SURVEILLANCE CAMERA ROUGH-IN SYMBOL

SYMBOL	DESCRIPTION	MH UNO	ROUGH-IN DETAIL #
CAM	CEILING MOUNTED VIDEO SURVEILLANCE CAMERA. SHALL HAVE A 1" CONDUIT WITH PLASTIC BUSHING INSTALLED ABOVE CEILING AT THE CAMERA LOCATION TO THE NEAREST CABLE TRAY.	-	-
CAM	WALL MOUNTED VIDEO SURVEILLANCE CAMERAS. SHALL HAVE A FLUSH MOUNTED 4" SQUARE BOX 2-1/8" DEEP AT THE CAMERA LOCATION WITH A 1" CONDUIT TO THE NEAREST CABLE TRAY. (MOUNT WITHIN 12" OF CORNER WHEN APPLICABLE)	+144"	-

N.T.S.

1 TECHNOLOGY ROUGH-IN SYMBOLS (ET)

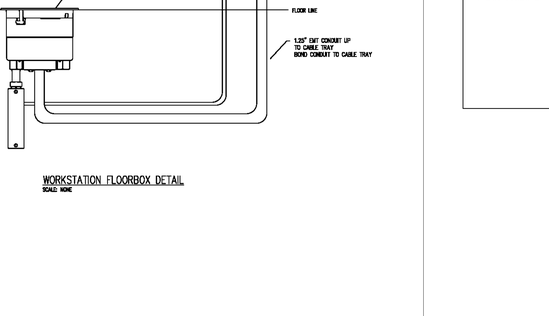


NOTE: REFER TO ARCHITECTURAL DRAWINGS FOR EXACT CEILING HEIGHTS

NOTE: COORDINATE CABLE TRAY ROUTING WITH ALL OTHER TRADES

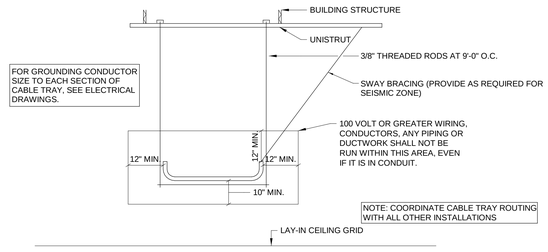
2 CABLE TRAY SECTION WITH MULTIPLE CEILING HEIGHTS DETAIL

N.T.S.



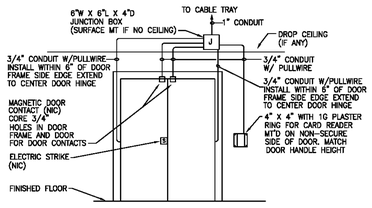
3 CABLE TRAY ELEVATION DETAIL WALL BRACKET

N.T.S.



4 CABLE TRAY ELEVATION DETAIL SUSPENDED

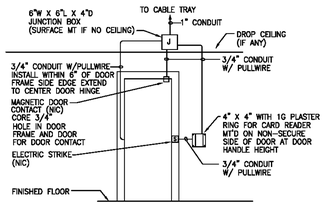
N.T.S.



***NOTE – SHOWN FROM SECURE SIDE OF DOOR

SECURITY HARDWARE – DOUBLE DOOR

SCALE: N.T.S.



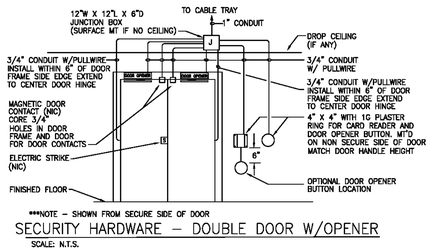
***NOTE – SHOWN FROM SECURE SIDE OF DOOR

SECURITY HARDWARE – SINGLE DOOR

SCALE: N.T.S

ANY PROWATCH ACCESS CONTROL LOCATIONS SHALL FOLLOW THESE CONDUIT DETAILS EVEN FOR EXISTING LOCATIONS WITH CARD READERS THAT WERE NOT PREVIOUSLY INSTALLED PER WSU STANDARDS.

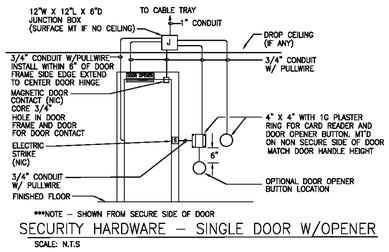
- The conduit feeding the card reader location shall terminate in a 4" square box 2 1/8" deep with a single-gang mud ring 42" AFF.
- Enhanced security door locations
  a. Shall have in addition to the standard door access location a second card reader location on the interior of the door location with a separate ¾" conduit with 4" square box 2 1/8" deep with a single-gang mud ring 42" AFF.
  b. A ¾" conduit with 4" square box 2 1/8" deep with a single-gang mud ring above the door on the exterior side for a siren.
- (Individual Addressable Module)
  a. Install an IAM "Simplex fire alarm system" in the communication closet near the access control hardware for every alarm point that needs to report to WSU Police Dispatch.
- Building Entrance
  a. Doors that require access control shall have at minimum the standard door access configuration, but may require additional infrastructure if the location is equipped with automatic door openers or if custom door hardware is used.
  b. Doors that require access control will have ANSI Grade 1 electrified VAN DUPRIN door hardware and operate at 24Volts DC and electrified exit devices shall have motor driven latch retraction. S5000 Door Strikes are standard.



***NOTE – SHOWN FROM SECURE SIDE OF DOOR

SECURITY HARDWARE – DOUBLE DOOR W/OPENER

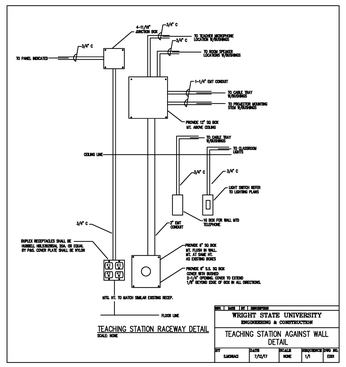
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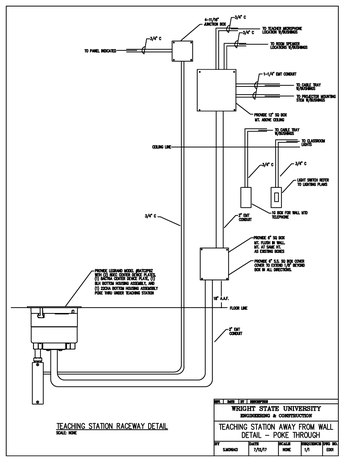


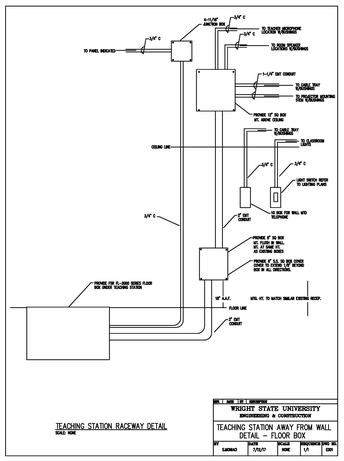
***NOTE – SHOWN FROM SECURE SIDE OF DOOR

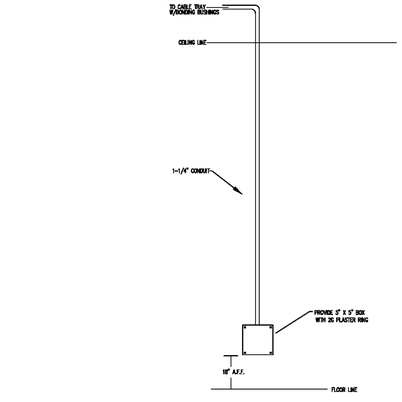
SECURITY HARDWARE – SINGLE DOOR W/OPENER

SCALE: N.T.S



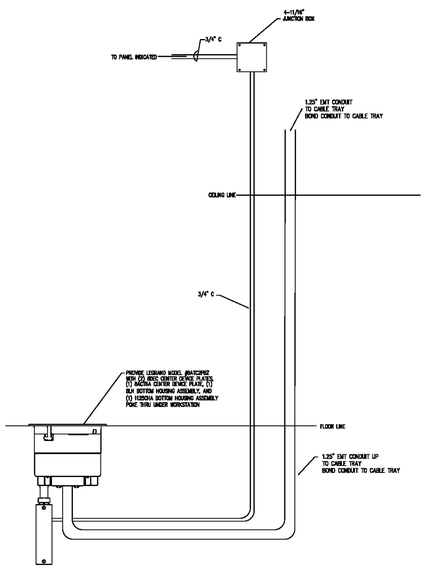






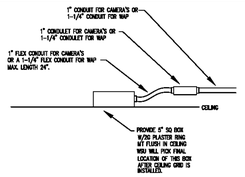
WORKSTATION OUTLET RACEWAY DETAIL

SCALE: NONE



WORKSTATION FLOORBOX DETAIL

SCALE: NONE



WAP/CAMERA RACEWAY DETAIL

SCALE: NONE

Security Cameras
- Interior
  a. CCTV locations shall have a bushed 1" conduit installed above accessible ceiling at the camera location to the nearest cable tray.
- Exterior
  a. CCTV locations shall have a flush mounted 4" square box 2 1/8" deep at the camera location with a 1" conduit to the nearest cable tray. Final CCTV locations to be determined by WSU.
  b. All panic buttons shall be hardwired to the Simplex fire alarm system, refer to electrical specifications.

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128 W MARKET STREET, CELINA, OH 45822

CONSTRUCTION DOCUMENTS

STATE OF OHIO MARK J. HOPE E-79009 REGISTERED PROFESSIONAL ENGINEER

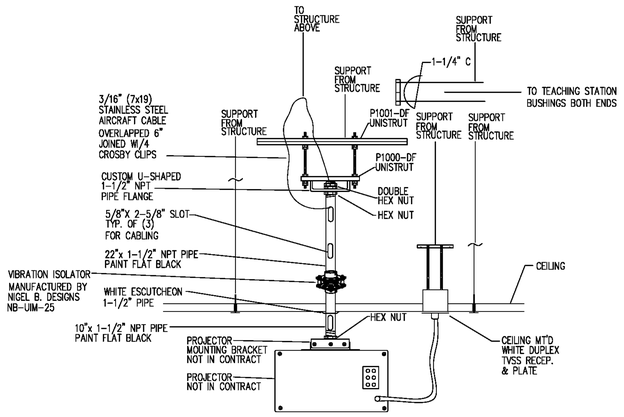
PROJECT MANAGER: RW
DRAWN BY: CDT
PROJECT NUMBER: FH224102.00/WSU-231035
PROJECT ISSUE DATE: 09.04.2026

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TECHNOLOGY ROUGH-IN DETAILS

ET51

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PROJECTOR STEM MOUNTING DETAIL

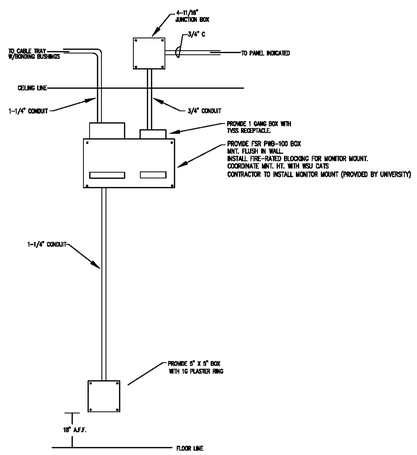
SCALE: NONE

REV.	DATE	BY	DESCRIPTION

WRIGHT STATE UNIVERSITY
ENGINEERING & CONSTRUCTION

PROJECTOR STEM MOUNTING DETAIL

BY	DATE	SCALE	SEQUENCE	DWG NO.
S.MONIACI	7/12/17	NONE	1/1	E001



WALL TV/MONITOR RACEWAY DETAIL

SCALE: NONE

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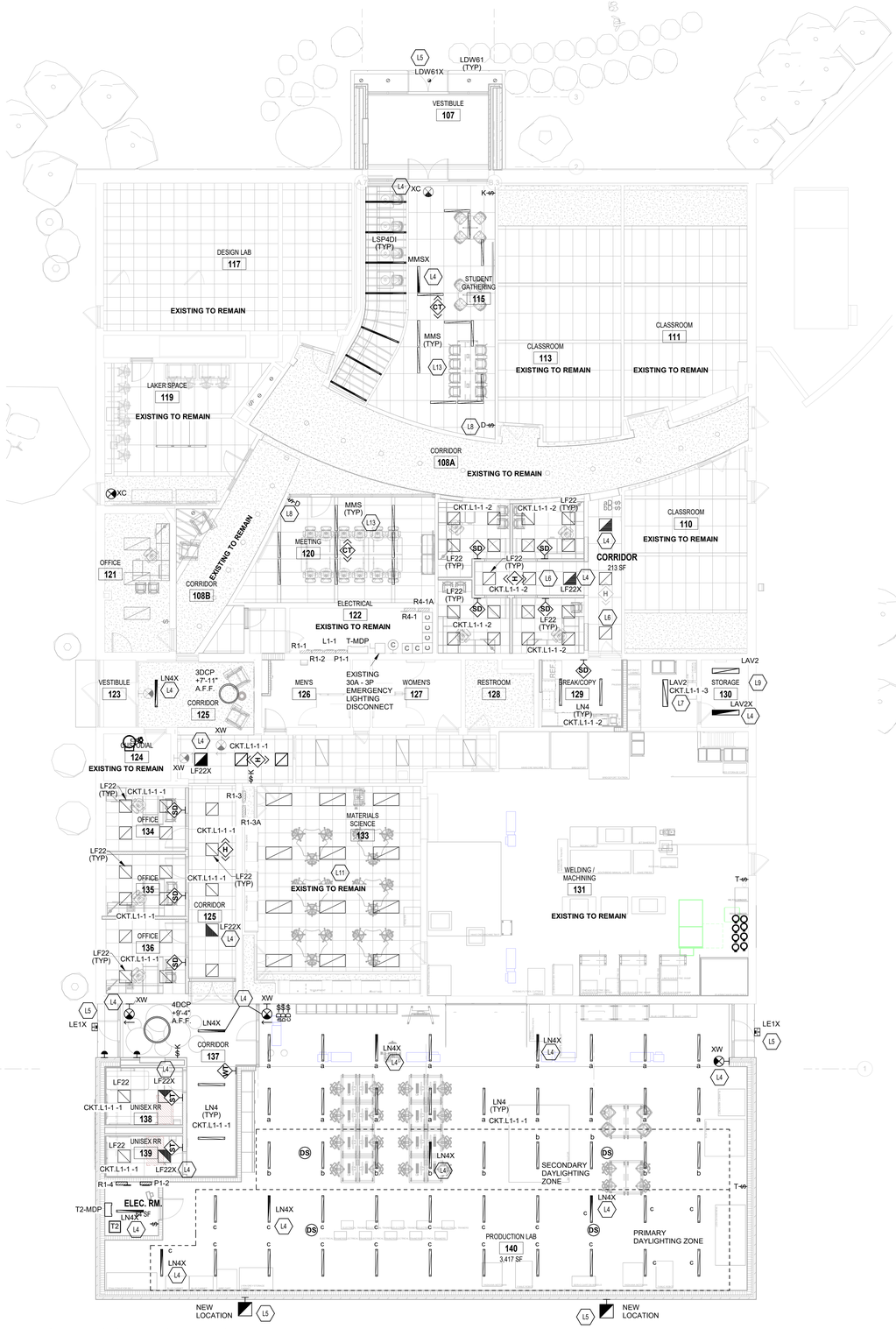
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TECHNOLOGY ROUGH-IN DETAILS

ET52

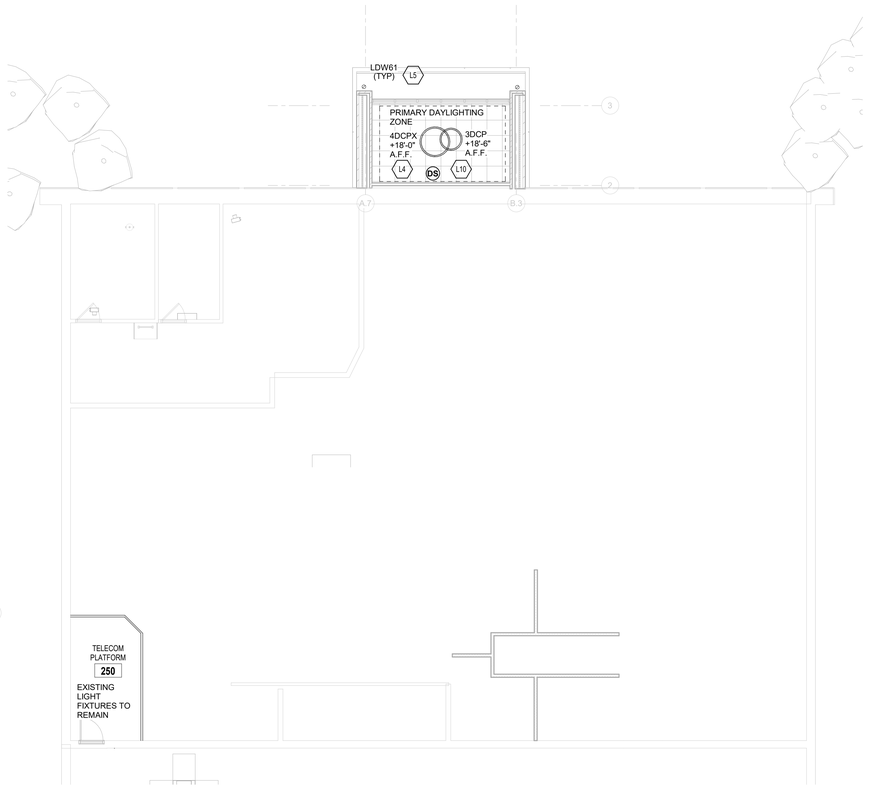
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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)



FIRST FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"



SECOND FLOOR LIGHTING PLAN

SCALE: 1/8" = 1'-0"

LIGHTING PLAN GENERAL NOTES

1. GENERATOR TRANSFER DEVICE TO TAKE FIXTURE TO 100% IN EMERGENCY CONDITION.
2. FINALCONNECTION TO RECESSED LUMINAIRES SHALL BE WITH FLEXIBLE METALLIC CONDUIT OR MC CABLE
3. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR LOCATION OF LUMINAIRES. COORDINATE LOCATION OF LUMINAIRES, LOUDSPEAKERS, DIFFUSERS, GRILLES, AND OTHER CEILING INSTALLED ELEMENTS WITH THEIR RESPECTIVE INSTALLERS.
4. REFER TO ARCHITECTURAL REFLECTED CEILING PLAN AND ROOM FINISH SCHEDULE TO DETERMINE PROPER TYPE OF LUMINAIRE TRIM REQUIRED FOR CEILING TYPE PRIOR TO ORDERING LUMINAIRES. PROVIDE LUMINAIRES COMPATIBLE WITH CEILING TYPE.
5. RECESSED LUMINAIRE IN GRID CEILING SYSTEMS SHALL BE PROVIDED WITH SEISMIC CLIPS OR PROVIDE ATTACHMENT TO CEILING GRID SYSTEM AND SUPPORTED PER PROJECT MANUAL AND DETAIL **"6A/E-501"**.
6. LUMINAIRE TYPE IS SHOWN ONLY ONCE, AS "TYP." IN EVERY ROOM. PROVIDE SAME TYPE OF LUMINAIRE THROUGH-OUT SAME ROOM UNLESS OTHERWISE INDICATED.
7. PROVIDE NO. 10 AWG, MINIMUM, CONDUCTORS FOR EXIT SIGNS AND SECURITY LIGHT CIRCUITS.

SHEET KEYNOTES

L4	CONNECT TO EXISITNG EMERGENCY CIRCUIT.
L5	CONNECT TO EXISTING EXTERIOR EMERGENCY CIRCUIT AND EXTERIOR LIGHTING CONTROLS.
L6	TIE IN NEW LIGHTS TO THE EXISTING CORRIDOR LIGHTING CONTROLS.
L7	TIE IN NEW LIGHTS INTO WELDING LAB CONTROLS.
L8	REWORK OCCUPANCY CONTROLS TO SWITCH TO A DIMMER SWITCHED CONNECTED TO AN OCCUPANCY SENSOR IN THE ROOM.
L9	RECONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT AND LIGHTING CONTROLS.
L10	TIE IN NEW LIGHTS WITH THE EXISTING CIRCUIT IN ROOM 115. CONNECT LIGHTS WITH THE KEYED SWITCH IN ROOM 115.
L11	EXISTING LIGHTS TO BE PLACED IN THE NEW CEILING IN THEIR EXISTING LOCATIONS. RECONNECT TO EXISTING LIGHTING CIRCUIT AND LIGHTING CONTROLS.
L13	RECONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT AND NEW LIGHTING CONTROLS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

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PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

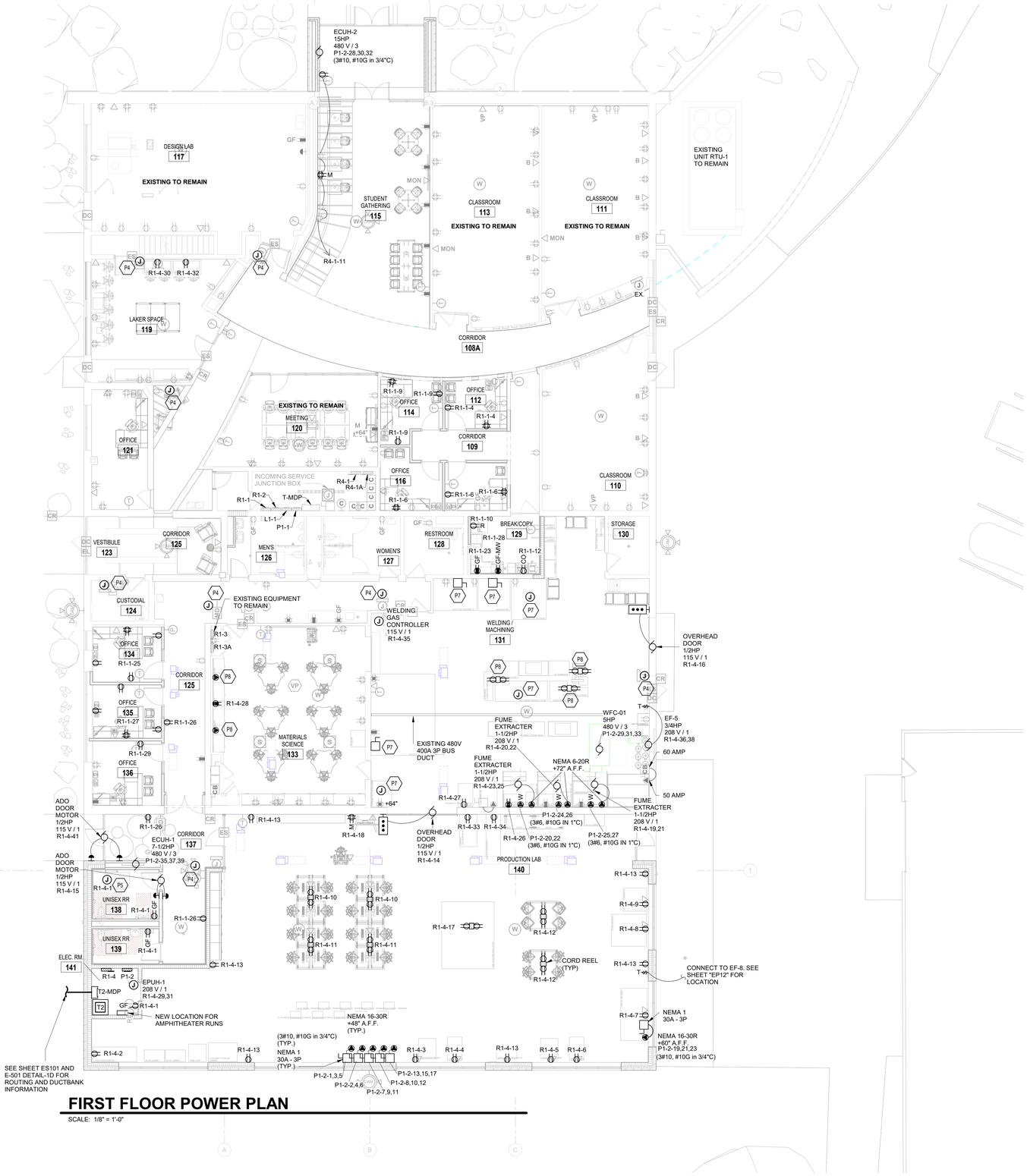
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LIGHTING PLAN

EL11

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ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)



FIRST FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P4	PROVIDE 120 VOLT CONNECTION TO ELECTRIC DOOR LOCK POWER SUPPLY UNIT(S). DIVISION 26 CONTRACTOR TO INSTALL AND MAKE FINAL CONNECTION TO ELECTRIC LOCK POWER SUPPLY UNIT(S) SUPPLIED BY DOOR HARDWARE SUPPLIER AND ANY 120 VOLT ACCESS CONTROL SYSTEM HARDWARE. INSTALL ABOVE ACCESSIBLE CEILING (OR AT ROOF DECK LEVEL FOR ROOMS/SPACES WITH EXPOSED STRUCTURE). COORDINATE INSTALLATION WITH GENERAL TRADES AND SECURITY CONTRACTORS PRIOR TO ROUGH-IN. CONNECT DEVICE TO EXISTING DOOR SECURITY CIRCUIT. FIELD VERIFY EXISTING CIRCUIT AS REQUIRED.
P5	PROVIDE A HARDWIRED CONNECTION FOR MOVABLE TABLE. COORDINATE MOUNTING HEIGHT AND LOCATION WITH ROUGH-IN FROM MANUFACTURER, ALONG WITH AN EMPTY BOX AND CONDUIT BETWEEN THE POWERED TABLE AND THE EMERGENCY SHUTOFF SWITCH.
P7	NEW LOCATION FOR EXISTING EQUIPMENT. RECONNECT TO EXISTING BUS PLUG.
P8	NEW LOCATION FOR EXISTING EQUIPMENT. RECONNECT TO THE EXISTING CIRCUIT.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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KEY PLAN

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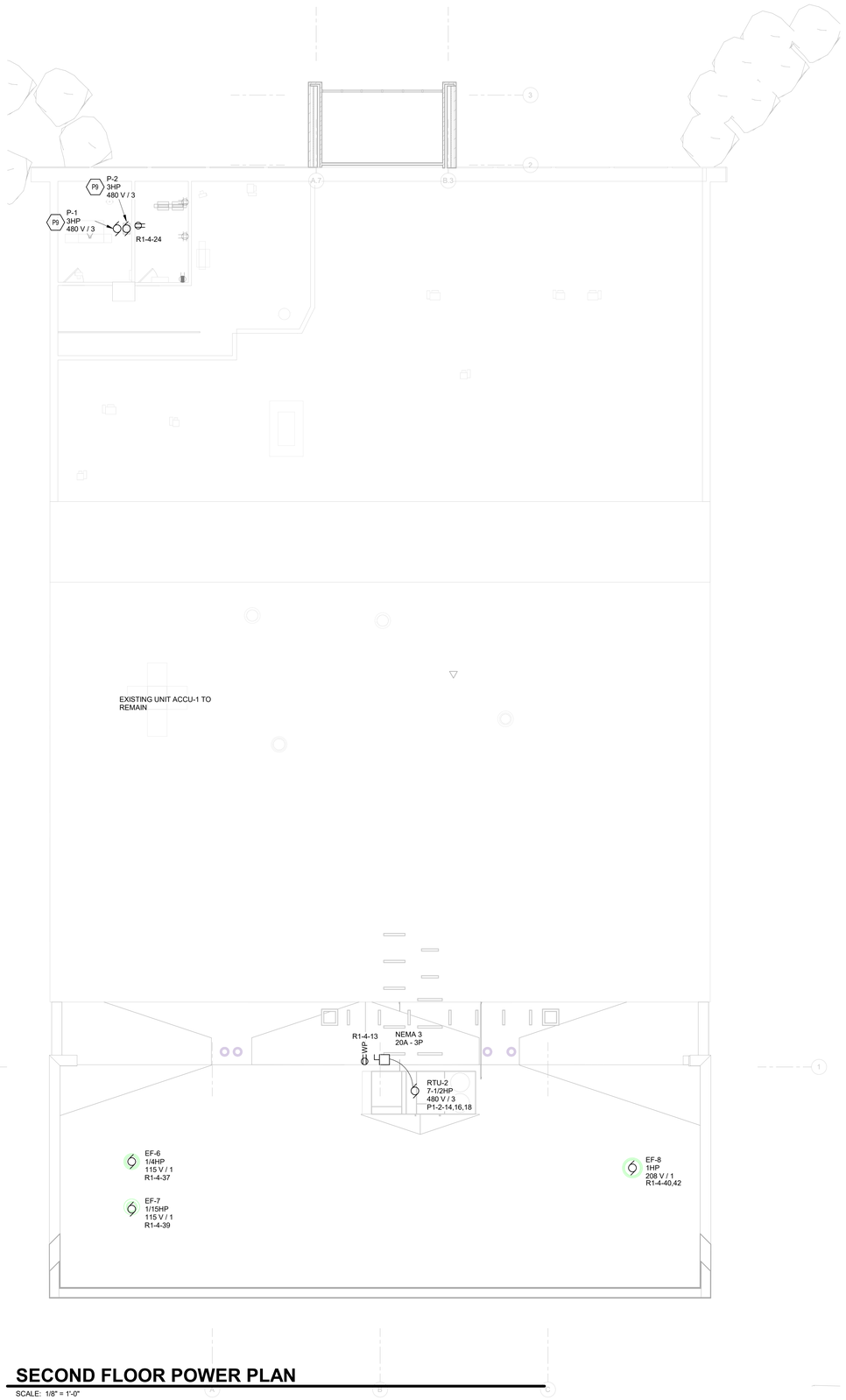
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PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

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FIRST FLOOR POWER PLAN

EP11

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SECOND FLOOR POWER PLAN

SCALE: 1/8" = 1'-0"

ROOM LEGEND			
ROOM NO.	OWNER ROOM NO.	ROOM NAME	AREA (SF)

POWER PLAN GENERAL NOTES

1. PROVIDE REVISED TYPED PANELBOARD DIRECTORIES FOR EACH PANELBOARD ADDED OR MODIFIED DURING CONSTRUCTION. FIELD VERIFY EXISTING CIRCUIT INFORMATION WITH OWNER'S ASSISTANCE TO ENSURE FINAL DIRECTORY IS ACCURATE. UNUSED SPARE BREAKERS SHALL BE IN THE OFF POSITION.
2. VIDEO PROJECTOR RECEPTACLE TO BE MOUNTED ABOVE WALL MOUNTED PROJECTOR BRACKET, 96" A.F.F. UNO.
3. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS. SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.
4. LABEL EACH RECEPTACLE WITH THE PANEL NAME AND CIRCUIT NUMBER ON THE FACE OF EACH COVER PLATE WITH A TYPED LAMINATED LABEL.
5. PROVIDE "GFCI PROTECTED" LABEL ON COVER PLATE FOR ANY GFCI PROTECTED DEVICE.
6. CONTRACTOR SHALL INCREASE CIRCUIT CONDUCTOR SIZE TO COMPENSATE FOR VOLTAGE DROP DUE TO EXCESSIVE CIRCUIT LENGTHS. IN NO CASE SHALL VOLTAGE DROP EXCEED NFPA 70 (N.E.C.) REQUIREMENTS.
7. REFER TO MECHANICAL PLANS FOR LOCATION OF MECHANICAL EQUIPMENT. LOCATE DISCONNECT SWITCHES PER NEC.
8. REFER TO "CONTROL SCHEMATICS" MECHANICAL DRAWINGS FOR ADDITIONAL CONTROL WIRING AND CONTROL CONNECTIONS.
9. ALL DEVICES, EQUIPMENT, FIXTURES, AND THE LIKE, SHALL BE BONDED WITH A PROPERLY SIZED EQUIPMENT GROUNDING CONDUCTOR. MAINTAIN MECHANICAL/ELECTRICAL BONDS OF METALLIC RACEWAY SYSTEM.

SHEET KEYNOTES

P9	CONNECT THE NEW PUMPS TO THE EXISTING CIRCUITS AND EXISTING CONTROLS. COORDINATE WITH MECH. DRAWINGS FOR EXACT LOCATION OF PUMPS.

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

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KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK
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HOPE
E-79009
REGISTERED
PROFESSIONAL ENGINEER

DRAWN BY: MTT
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

SECOND FLOOR POWER PLAN

EP12

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FIRST FLOOR FIRE ALARM PLAN

SCALE: 1/8" = 1'-0"

FIRE ALARM PLAN GENERAL NOTES

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128 W Market St, Celina, OH 45822

A
B

KEY PLAN

CONSTRUCTION DOCUMENTS

STATE OF OHIO
MARK Z. HOPE
E-79009
REGISTERED PROFESSIONAL ENGINEER

DRAWN BY: MTT
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

VERIFICATION NOTE

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CLEARANCES AND ALL EXISTING FIELD CONDITIONS BEFORE STARTING CONSTRUCTION. COMMENCEMENT OF WORK CONSTITUTES ACCEPTANCE OF CONDITIONS.

SHOULD DIFFERENT CONDITIONS BE ENCOUNTERED, CONTACT THE ARCHITECT BEFORE PROCEEDING WITH WORK.

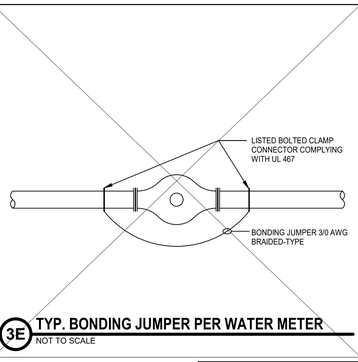
FIRST FLOOR - FIRE ALARM SYSTEM PLAN

EF101

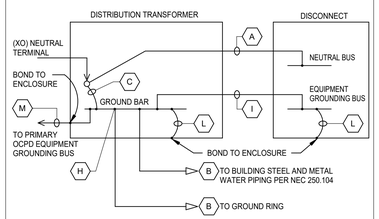
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GROUNDING CODED NOTES:

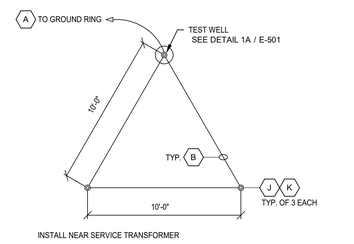
#	NOTE
A	GROUNDING ELECTRODE CONDUCTOR. BARE, TINNED, STRANDED, COPPER-CONDUCTOR. (30 INCHES BELOW GRADE. MIN.) (24 INCHES FROM FOUNDATION, MIN.) FOR ELECTRICAL SERVICE OF 800 AMP OR LESS USE #2/0 AWG. FOR ELECTRICAL SERVICE GREATER THAN 800 AMP USE #4/0 AWG.
B	GROUNDING CONDUCTOR. 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR.
C	IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO CABLE)
D	IRREVERSIBLE, COPPER, COMPRESSION CONNECTOR. (CABLE TO TRAY) BOND EACH SECTION, TRANSISTION, RISER, TEE, ETC.
H	PROVIDE UL 467 LISTED COMPRESSION CONNECTORS, TWO-HOLE LUGS.
I	SYSTEM BONDING JUMPER CONDUCTOR. SYSTEM BONDING JUMPER CONDUCTOR TO BE RUN IN EACH CONDUIT CONTAINING PHASE CONDUCTORS BETWEEN TRANSFORMER AND MAIN SECONDARY DISCONNECT. (REFER TO ONE-LINE DIAGRAM FOR CONDUCTOR SIZE)
J	8 FOOT BY 5/8" COPPER WELD GROUND ROD. TOP OF ROD SHALL BE 12" MINIMUM BELOW FINISHED GRADE.
K	PROVIDE EXOTHERMIC WELD FOR ALL CABLE TO ROD, CABLE TO CABLE, OR CABLE TO STEEL CONNECTIONS.
L	EQUIPMENT BONDING JUMPER STRANDED, BARE, COPPER. (<110A USE #6, <410A USE #2, <810A USE #2/0, <2100A USE #4/0) SCREW OF BUSBAR MAY BE USED WHEN PROVIDED AS PART OF LISTED SERVICE EQUIPMENT.
M	EQUIPMENT GROUNDING CONDUCTOR (REFER TO ONE LINE DIAGRAM FOR CONDUCTOR SIZE).
N	TELECOMMUNICATIONS BONDING BACKBONE: #4/0 AWG STRANDED BARE COPPER.
O	BONDING CONDUCTOR: 6 AWG STRANDED BARE COPPER.
P	1" PVC SLEEVE FOR ALL GROUNDING CONDUCTORS THROUGH FLOOR SLABS. NEVER ROUTE GROUNDING CONDUCTORS IN A METAL CONDUIT.
Q	PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 4" x 20" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE, SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
R	PROVIDE UL 467 LISTED, ELECTRO-TIN-PLATED COPPER BUSBAR, 2" x 12" x 1/4" WITH (2) 2-INCH INSULATED STANDOFF SUPPORTS. PROVIDE ENGRAVED NAMEPLATE SCREWED TO WALL, 6" ABOVE GROUNDING BUS BAR WHICH READS, "IF THESE CONNECTORS OR CABLES ARE LOOSE OR MUST BE REMOVED, PLEASE CALL THE BUILDING TELECOMMUNICATIONS MANAGER".
T	CONTINUOUS, UNSPLICED BONDING CONDUCTOR FOR TELECOMMUNICATIONS: 2/0 AWG BARE, TINNED, STRANDED, COPPER-CONDUCTOR IN CABLE TRAYS.
U	BRAIDED ALUMINUM CABLE FOR LIGHTING DOWNRUNNER. SUPPORT SPACING PER NFPA 780.
X	WELD A MINIMUM 6" x 3" x 1/4" STEEL PLATE TO UNDERSIDE OF BOTTOM FLANGE OF ROOF JOIST. THE STEEL PLATE SHALL BE WELDED TO THE BOTTOM FLANGE USING A NORMAL WELDING PROCEDURE WITH WELDS PARALLEL TO THE BOTTOM FLANGE ALONG THE EDGE. THEN BOND THE GROUNDING CONDUCTOR TO THE STEEL PLATE AT LEAST 1" AWAY FROM FLANGE, USING AN EXOTHERMIC WELD.
Y	PROVIDE WRAP AROUND PLASTIC LABEL ON EACH CONDUCTOR AT GROUND BAR. IDENTIFY WHAT THE CABLE IS CONNECTED TO.



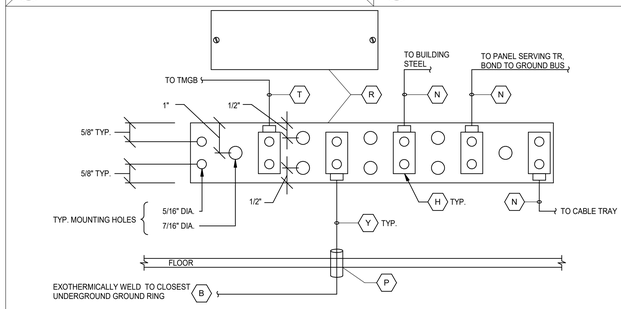
3E TYP. BONDING JUMPER PER WATER METER
NOT TO SCALE



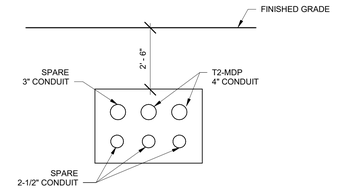
2E DISTRIBUTION TRANSFORMER GROUNDING DETAIL
NOT TO SCALE



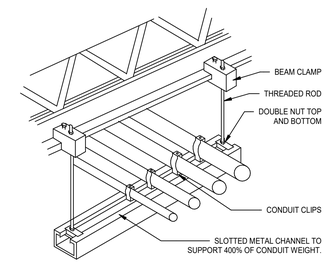
1E TYPICAL GROUNDING TRIANGLE DETAIL
NOT TO SCALE



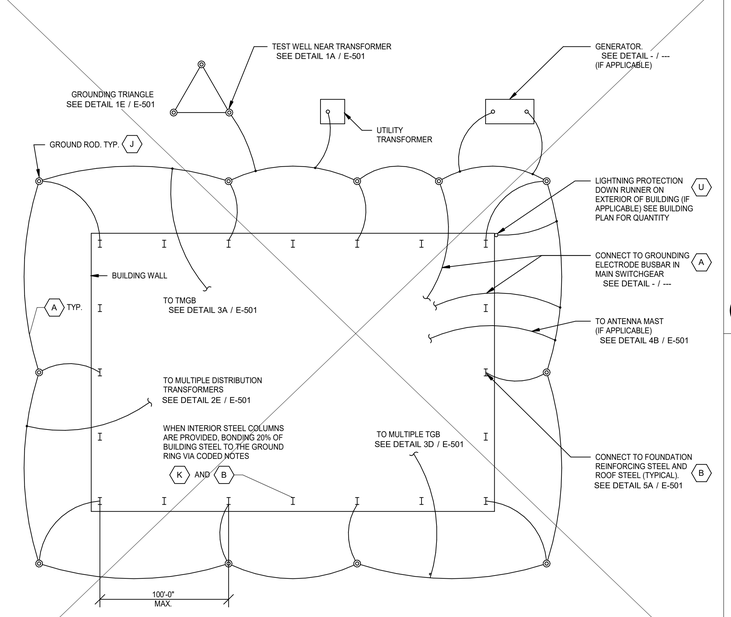
3D TYPICAL TR TELECOMMUNICATIONS GROUNDING BUSBAR (TGB) DETAIL
NOT TO SCALE



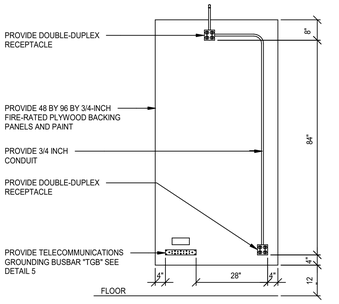
1D ELECTRICAL DUCTBANK
NOT TO SCALE



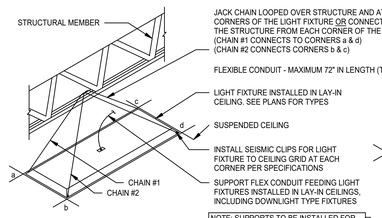
6B 2.5" & UP CONDUIT SUPPORT DETAIL
NOT TO SCALE

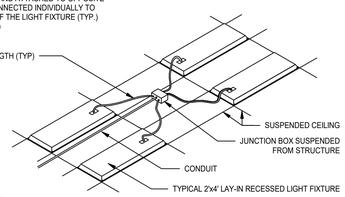


3B TYPICAL MASONRY BUILDING GROUND RING DETAIL
NOT TO SCALE

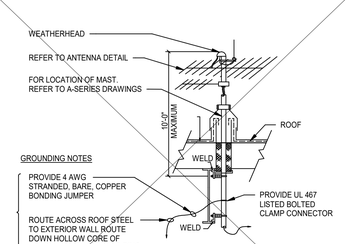


1C TYPICAL TR BACKBOARD
NOT TO SCALE

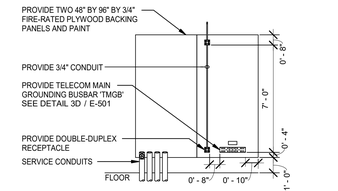




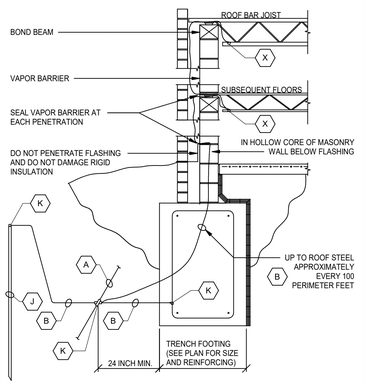
6A RECESSED LIGHT FIXTURE SUPPORT
NOT TO SCALE



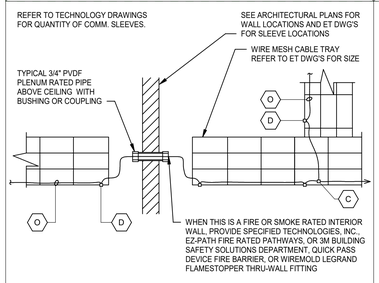
4B ANTENNA MAST GROUNDING DETAIL
NOT TO SCALE



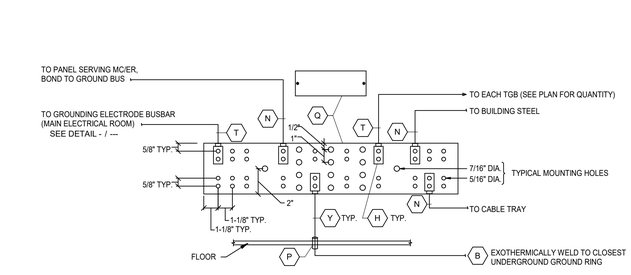
1B TYPICAL MAIN TELEPHONE/MC/ER BACKBOARD
NOT TO SCALE



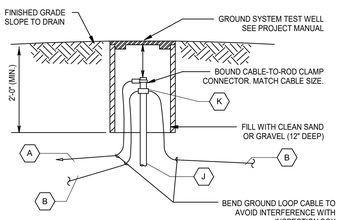
5A TYPICAL GROUND RING AND GROUNDING FOR MASONRY BUILDING STRUCTURE DETAIL
NOT TO SCALE



4A CABLE TRAY GROUNDING AT WALL (PLAN VIEW)
NOT TO SCALE



3A TYPICAL MC/ER TELECOM MAIN GROUNDING BUSBAR (TMGB) DETAIL
NOT TO SCALE



GROUND RESISTANCE AS MEASURED BY A GROUND METER SHALL NOT BE GREATER THAN 5 OHMS

1A GROUND TEST WELL DETAIL
NOT TO SCALE

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TRENARY HALL WORKFORCE DEVELOPMENT ADDITION & RENOVATION

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STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED PROFESSIONAL ENGINEER

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ELECTRICAL DETAILS

E-501

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LUMINAIRE SCHEDULE

PLAN TYPE	MANUFACTURER/CATALOG	MOUNTING	LAMPS				APPLIED VOLTAGE	DESCRIPTION	VA LOAD
			NO.	WATTS	TYPE	LUMENS			
3DCP	NEORAY DEFINE GEO RING SERIES SPI LIGHTING ZYNN RING SERIES OR AN A/E APPROVED LIGHT FROM COOPER LIGHTING	SUSPENDED	1	120 W	LED	4000 lm	277 V	3-FOOT DIAMETER SUSPENEDED RING LIGHT, DIRECT AND INDIRECT SUSPENDED, 3500K, 90 CRI, 0-10VDC DIMMING DRIVER	93 VA
4DCP	NEORAY DEFINE GEO RING SERIES SPI LIGHTING ZYNN RING SERIES OR AN A/E APPROVED LIGHT FROM COOPER LIGHTING	SUSPENDED	1	120 W	LED	4000 lm	277 V	4-FOOT DIAMETER SUSPENEDED RING LIGHT, DIRECT AND INDIRECT SUSPENDED, 3500K, 90 CRI, 0-10VDC DIMMING DRIVER	93 VA
4DCPX	NEORAY DEFINE GEO RING SERIES SPI LIGHTING ZYNN RING SERIES OR AN A/E APPROVED LIGHT FROM COOPER LIGHTING	SUSPENDED	1	120 W	LED	4000 lm	277 V	4-FOOT DIAMETER SUSPENEDED RING LIGHT, DIRECT AND INDIRECT SUSPENDED, 3500K, 90 CRI, 0-10VDC DIMMING DRIVER. PROVIDE WITH AN EMERGENCY TRANSFER DEVICE	93 VA
LAV2	FAIL-SAFE HVL8 LED SERIES KENALL LIGHTING MLHA8S SERIES LUMINARE LED VPF8 SERIES A/E APPROVED EQUAL	SURFACE	1	54 W	LED	4938 lm	277 V	4-FOOT BY 8-INCH VANDAL RESISTANT LED ARCHITECTURAL FIXTURE, EXTRUDED ALUMINUM CONSTRUCTION, WITH .156" HIGH IMPACT CLEAR RIBBED ACRYLIC LENS, DIE-CAST ROUNDED END CAPS, 0-10VDC DIMMING DRIVER.	54 VA
LAV2X	FAIL-SAFE HVL8 LED SERIES KENALL LIGHTING MLHA8S SERIES LUMINAIRE LED VPF8 SERIES A/E APPROVED EQUAL	SURFACE	1	54 W	LED	4938 lm	277 V	4-FOOT BY 8-INCH VANDAL RESISTANT LED ARCHITECTURAL FIXTURE, EXTRUDED ALUMINUM CONSTRUCTION, WITH .156" HIGH IMPACT CLEAR RIBBED ACRYLIC LENS, DIE-CAST ROUNDED END CAPS, 0-10VDC DIMMING DRIVER. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	54 VA
LDW61	FAIL-SAFE FLD6A SERIES PHILIPS BRANDS A/E APPROVED EQUAL GOTHAM EVO SHOWER SERIES PRESCOLITE LF6LEDG4 SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED.	15 VA
LDW61X	FAIL-SAFE FLD6A SERIES PHILIPS BRANDS A/E APPROVED EQUAL GOTHAM EVO SHOWER SERIES PRESCOLITE LF6LEDG4 SERIES	RECESSED	1	15 W	LED	1000 lm	277 V	6-INCH ROUND APERTURE LED SHOWER LIGHT WITH REGRESSED LENS REFLECTOR, WHITE REFLECTOR AND TRIM, SELF-FLANGED, IP65 WET LOCATION LISTED. PROVIDE WITH EMERGENCY TRANSFER DEVICE.	15 VA
LE1X	McGRAW-EDISON GWC SEREIS GARDCO PWS SERIES LITHONIA DSXW1 LED SERIES BEACON VIPER WALL VPW SERIES	SURFACE WALL	1	59 W	LED	5286 lm	277 V	EXTERIOR WEDGE SHAPED LED WALLPACK WITH TYPE IV/FORWARD-THROW OPTIC. LUMINAIRE FINISH COLOR SHALL BE DARK BRONZE. EMERGENCY TRANSFER VIA REMOTE WHOLE CIRCUIT EMERGENCY TRANSFER DEVICE.	39 VA
LF2	LITHONIA CPX SERIES EATON METALUX CGT SERIES COLUMBIA CFP SERIES	RECESSED	1	32 W	LED	4000 lm	277 V	2 BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	36 VA
LF22	LITHONIA CPX SERIES ALIGHT LEAN SERIES OR A/E APPROVED EQUAL	RECESSED	1	20 W	LED	3200 lm	277 V	2 BY 2-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	<varies>
LF22X	LITHONIA CPX SERIES ALIGHT LEAN SERIES OR A/E APPROVED EQUAL	RECESSED	1	20 W	LED	3200 lm	277 V	2 BY 2-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING. PROVIDE WITH EMERGNECY TRANSFER DEVICE.	20 VA
LN4	LUMENWERX VIA 4 SERIES MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4 LED SERIES	SUSPENDED	1	101 W	LED	3900 lm	277 V	LENGTH AS INDICATED BY 4" SLOT TYPE INDIRECT/DIRECT PENDANT HUNG FIXTURE. ONE PERCENT DIMMING, HIGH LUMEN OUTPUT, SQUARE CANOPY, AIR CRAFT CABLE SUSPENSION AND WHITE POWER CORD. MOUNT AT 8'-6" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE.	51 VA
LN4X	LUMENWERX VIA 4 SERIES MARK ARCHITECTURAL SLOT 4 SERIES LITECONTROL MOD 4 LED SERIES	SUSPENDED	1	101 W	LED	3900 lm	277 V	LENGTH AS INDICATED BY 4" SLOT TYPE INDIRECT/DIRECT PENDANT HUNG FIXTURE. ONE PERCENT DIMMING, HIGH LUMEN OUTPUT, SQUARE CANOPY, AIR CRAFT CABLE SUSPENSION AND WHITE POWER CORD. MOUNT AT 8'-6" ABOVE FINISH FLOOR UNLESS NOTED OTHERWISE. PROVIDE AN EMERGENCY TRANSFER DEVICE	51 VA
LSP4DI	NEORAY DEFINE 2 SERIES LEDALITE TRUGROOVE 290 SERIES MARK LIGHTING SLOT 2 LED SERIES LITECONTROL MOD 2 LED SERIES	SUSPENDED	1	30 W	LED	2400 lm	277 V	2-INCH BY 6-FOOT (NO2-INCH BY 6-FOOT (NOMINAL) LINEAR SUSPENDED LED SLOT TYPE LUMINAIRE WITH DIRECT/INDIRECT DISTRIBUTION, FLUSH OPAL ACRYLIC BOTTOM AND TOP LENS, 300 LUMENS/FT. DIRECT, 300 LUMENS/FT. INDIRECT (MINIMUM FOR EACH DISTRIBUTION, OR SUPPLIED MFGR. NEXT HIGHEST STANDARD LUMEN PACKAGE), AIRCRAFT CABLE SUSPENSION, BLACK FINISH HOUSING, 0-10VDC DIMMING DRIVER. PROVIDE RUN LENGTHS PER DRAWINGS.	30 VA
MMS	METALUX MMS SERIES OR AN A/E APPROVED LIGHT FROM COOPER LIGHTING	RECESSED	1	32 W	LED	3000 lm	277 V	6-INCH BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING.	32 VA
MMSX	METALUX MMS SERIES OR AN A/E APPROVED LIGHT FROM COOPER LIGHTING	RECESSED	1	32 W	LED	3000 lm	277 V	6-INCH BY 4-FOOT, BACK LIT FLAT PANEL WITH ALUMINUM FRAME, 4000K, 80+ CRI, 0-10V DIMMING. PROVIDE WITH AN EMERGENCY TRANSFER DEVICE	32 VA
XC	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES OR A/E APPROVED EQUAL	SURFACE CEILING	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA
XW	SURE-LITES CX SERIES CHLORIDE 55 LINE SERIES LITHONIA SIGNATURE SERIES DUAL-LITE SEMPRA SERIES	SURFACE WALL	1	3 W	RED LED	0 lm	277 V	CAST ALUMINUM AC ONLY EXIT SIGN, SINGLE FACE, DIRECTIONAL ARROWS INDICATED, WHITE HOUSING. REFER TO PROJECT MANUAL FOR ADDITIONAL REQUIREMENTS.	3 VA

LUMINAIRE SCHEDULE - GENERAL NOTES

1. FOR ALL DOWNLIGHTING FIXTURES, PROVIDE REQUIRED MOUNTING HARDWARE FOR MOUNTING IN LAY-IN TYPE CEILINGS.
2. CONTRACTOR TO VERIFY TYPES AND QUANTITY OF LIGHT FIXTURES REQUIRING EMERGENCY TRANSFER DEVICES AND PROVIDE REQUIRED QUANTITY OF EMERGENCY TRANSFER DEVICES, LABOR, MATERIAL, ETC. IN THE PROJECT BID FOR FIELD INSTALLATION OF EMERGENCY TRANSFER DEVICES.
3. LIGHT FIXTURE SUBMITTALS TO INCLUDE DATA SHEETS FOR ALL FIXTURE TYPES, INCLUDING ADDITIONAL DATA SHEETS FOR BALLAST COMBINATIONS REQUIRED TO MEET THE INSTALLATION REQUIREMENTS OF THE VARIOUS FIXTURE TYPES INDICATED IN THE REMARKS COLUMN OF THE FIXTURE SCHEDULES OR ON THE DRAWINGS. SUBMITTALS SHALL ALSO INDICATE COLOR FOR ANY CUSTOM COLOR LIGHT FIXTURES.

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WRIGHT STATE UNIVERSITY

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E-79009
REGISTERED PROFESSIONAL ENGINEER

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LUMINAIRE SCHEDULES

E-601

Autodesk Docs://WSU-LC - Workforce Development Project/2025_ELEC_224102.00.rvt
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Branch Panel: P1-2

Location: ELEC. RM. 141 | **Supply From:** T2-MDP | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 35k A.I.C | **Mains Type:** MLO | **Mains Rating:** 225 A | **MCB Rating:**

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ELECTRICAL TRAINER	30 A	3	0 VA	0 VA					3	30 A	ELECTRICAL TRAINER	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	ELECTRICAL TRAINER	30 A	3	0 VA	0 VA					3	30 A	ELECTRICAL TRAINER	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	ELECTRICAL TRAINER	30 A	3	0 VA	3047...					3	20 A	RTU-2	14
15	--	--	--			0 VA	3047...			--	--	--	16
17	--	--	--					0 VA	3047...	--	--	--	18
19	YASKAWA HC10DCT	20 A	3	0 VA	9650...					2	60 A	WELDER	20
21	--	--	--			0 VA	9650...			--	--	--	22
23	--	--	--					0 VA	9650...	2	60 A	WELDER	24
25	WELDER	60 A	2	9650...	9650...					--	--	--	26
27	--	--	--			9650...	5817...			3	30 A	ECUH-2	28
29	WFC-01	20 A	3					2105...	5817...	--	--	--	30
31	--	--	--	2105...	5817...					--	--	--	32
33	--	--	--			2105...							34
35	ECUH-1	20 A	3				3047...						36
37	--	--	--	3047...									38
39	--	--	--			3047...							40
41													42
		Total Load:		42966 VA		33316 VA		23666 VA					
		Total Amps:		160 A		126 A		85 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	42049 VA	110.38%	46412 VA		
Other	0 VA	0.00%	0 VA	**Total Conn. Load:**	99949 VA
Receptacle - Welding	57900 VA	50.00%	28950 VA	**Total Est. Demand:**	75362 VA
				Total Conn.:	120 A
				Total Est. Demand:	91 A

Notes:

Branch Panel: L1-1

Location: ELECTRICAL 122 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** 200 A | **MCB Rating:** 200 A

Notes:
EXISTING PANELBOARD - NEW LOADS ARE SHOWN IN BOLD TEXT

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	**RM 125, 126, 127, CORRIDOR 128 LIGHTS (EN)**	20 A	1	2511...	462 VA					1	20 A	**RM 112, 114, 116, 118, 133 LIGHTS (EN)**	2
3	**RM 134 LIGHTS (EN)**	20 A	1			54 VA	0 VA			1	20 A	OFFICE LIGHTS (E)	4
5	ROOM 122 LIGHTS (E)	20 A	1					0 VA	0 VA	1	20 A	OFFICE LIGHTS (E)	6
7	ROOM 127 LIGHTS (E)	20 A	1	0 VA	0 VA					1	20 A	SHOP LIGHTS (E)	8
9	SHOP LIGHTS (E)	20 A	1			0 VA	0 VA			1	20 A	BATHROOM/HALL LIGHTS/RM 121 (E)	10
11	**RM 107 AND 115 LIGHTS**	20 A	1					3 VA	51 VA	1	20 A	**LAB RM 103 LIGHTS (EN)**	12
13	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare (E)	14
15	Spare (E)	20 A	1			0 VA	0 VA			1	20 A	Spare (E)	16
17	Spare (E)	20 A	1					0 VA	--	1	--	Space (E)	18
19	RM 119, 120 & CORRIDOR LIGHTS (E)	20 A	1	0 VA	--					1	--	Space (E)	20
21	RM 115, 117 & MECHANICAL RM LIGHTS (E)	20 A	1			0 VA	--			1	--	Space (E)	22
23	ELECTRICAL RM & BATHROOM LIGHTS (E)	20 A	1					0 VA	0 VA	1	20 A	RM 111, 113 LIGHTS (E)	24
25	Space (E)	--	1	--	--					1	--	Space (E)	26
27	Space (E)	--	1			--	--			1	--	Space (E)	28
29	RM 110, 112, 114, 116, 118 LIGHTS (E)	20 A	1					0 VA	0 VA	1	20 A	LIGHTS (E)	30
31	Spare (E)	30 A	3	0 VA	0 VA					3	30 A	Spare (E)	32
33	--	--	--			0 VA	0 VA			--	--	--	34
35	--	--	--					0 VA	0 VA	--	--	--	36
37	Spare (E)	30 A	3	0 VA	0 VA					3	30 A	Spare (E)	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	--	--	--	42
	Total Load:			2973 VA		54 VA		54 VA					
	Total Amps:			11 A		0 A		0 A					

Legend:
Circuit Breaker Legend: "(XX)" after circuit load/room number in Circuit Description column on schedule: (E)=Existing circuit breaker serving existing load to remain. (EN)=Existing circuit breaker to remain and be used for new load as indicated. (N)=New circuit breaker in existing circuit space(s). (NR)= New/replacement circuit breaker (remove circuit breaker(s) as required to install and turn over to...

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	3081 VA	125.00%	3851 VA		
				Total Conn. Load:	3081 VA
				Total Est. Demand:	3851 VA
				Total Conn.:	4 A
				Total Est. Demand:	5 A

Notes:
NEW CIRCUIT BREAKERS ARE TO MATCH THE EXISTING A.I.C. RATING

Branch Panel: T2-MDP

Location: ELEC. RM. 141 | **Supply From:** MSB1 | **Mounting:** SURFACE | **Enclosure:** TYPE 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 35K A.I.C. | **Mains Type:** MCB | **Mains Rating:** 400 A | **MCB Rating:** 400 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	P1-2	225 A	3	4296...	1738...					3	125 A	T2	2
3	--	--	--			3331...	1681...			--	--	--	4
5	--	--	--					2366...	1369...	--	--	--	6
7													8
9													10
11													12
13													14
15													16
17													18
19													20
21													22
23													24
25													26
27													28
29													30
31													32
33													34
35													36
37													38
39													40
41													42
	Total Load:			60348 VA		50128 VA		37358 VA					
	Total Amps:			225 A		188 A		135 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	59103 VA	107.38%	63466 VA		
Other	2254 VA	100.00%	2254 VA	**Total Conn. Load:**	147834 VA
Receptacle	1170 VA	100.00%	1170 VA	**Total Est. Demand:**	117765 VA
Receptacle - Convenience	27407 VA	80.00%	21926 VA	**Total Conn.:**	178 A
Receptacle - Welding	57900 VA	50.00%	28950 VA	**Total Est. Demand:**	142 A

Notes:

Branch Panel: R1-4

Location: ELEC. RM. 141 | **Supply From:** T2 | **Mounting:** Recessed | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: 10k A.I.C | **Mains Type:** MCB | **Mains Rating:** 250 A | **MCB Rating:** 250 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	CHANGING TABLE, RECEPT. RM. 138, 139, 141	20 A	1	922 VA	1800...					1	20 A	TITAN CONVEYER BELT RM. 140	2
3	YASKAKA MOTOMAN RM. 140	20 A	1			1800...	1800...			1	20 A	FANU ROBOT RM. 140	4
5	YASKAKA MOTOMAN RM. 140	20 A	1					1800...	1800...	1	20 A	FANU ROBOT RM. 140	6
7	YASKAWA HCDT10 RM. 140	20 A	1	1800...	1800...					1	20 A	YASKAWA HC10 RM. 140	8
9	PLANNED ABB ROBOT	20 A	1			1800...	360 VA			1	20 A	CORD REEL RM. 140	10
11	CORD REEL RM. 140	20 A	1					360 VA	360 VA	1	20 A	CORD REEL RM. 140	12
13	RECEPTS RM. 140	20 A	1	1080...	1127...					1	20 A	GARAGE DOOR RM. 140	14
15	ADO DOOR MOTOR RM. 138	20 A	1			1127...	1127...			1	20 A	GARAGE DOOR RM. 131	16
17	SMC MACHONE SIM. RM. 140	20 A	1					1800...	450 VA	1	20 A	MONITOR QUAD. RM. 140	18
19	FUME EXTRACTER FOR WELD. BOOTH	20 A	2	1373...	1373...					2	20 A	FUME EXTRACTER FOR WELD. BOOTH	20
21	--	--	--			1373...	1373...			--	--	--	22
23	FUME EXTRACTER FOR WELD. BOOTH	20 A	2					1373...	180 VA	1	20 A	ACCESS CONTROL SYSTEM	24
25	--	--	--	1373...	540 VA					1	20 A	WELDER BOOTH RECEPT.	26
27	NTSUNG FU TOOL CUTTER AND GRINDER	20 A	1			1127...	180 VA			1	20 A	WILSON QUAD. RM. 133	28
29	EPUH-1	20 A	2					936 VA	1800...	1	20 A	GLOWFORGE RM. 119	30
31	--	--	--	936 VA	1800...					1	20 A	GLOWFORGE RM. 119	32
33	H-PAK PNUEMATICS TRAINER RM. 140	20 A	1			1800...	1800...			1	20 A	HYDROLICS STATION RM. 140	34
35	WELDER GAS SHUT-OFF CONTROLLER	20 A	1					0 VA	791 VA	2	20 A	EF-5	36
37	EF-6	20 A	1	667 VA	791 VA					--	--	--	38
39	EF-7	20 A	1			230 VA	915 VA			2	20 A	EF-8	40
41	ADO DOOR MOTOR RM. 137	20 A	1					1127...	915 VA	--	--	--	42
43	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	44
45	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	46
47	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	48
49	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	50
51	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	52
53	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	54
55	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	56
57	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	58
59	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	60
61	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	62
63	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	64
	Total Load:			17382 VA		16812 VA		13692 VA					
	Total Amps:			149 A		144 A		114 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Motor	17054 VA	104.03%	17741 VA		
Other	2254 VA	100.00%	2254 VA	**Total Conn. Load:**	47885 VA
Receptacle	1170 VA	100.00%	1170 VA	**Total Est. Demand:**	43090 VA
Receptacle - Convenience	27407 VA	80.00%	21926 VA	**Total Conn.:**	133 A
				Total Est. Demand:	120 A

Notes:

Branch Panel: R1-1

Location: ELECTRICAL 122 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 120/208 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** 200 A | **MCB Rating:** 200 A

Notes:
EXISTING PANELBOARD - NEW LOADS ARE SHOWN IN BOLD TEXT

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	OUTSIDE 60@ 208V RECEPTACLE WEST SID...	60 A	2	0 VA	0 VA					1	20 A	ELECTRIC RM EF4 (E)	2
3	--	--	--			0 VA	540 VA			1	20 A	**OFFICE RM 112 RECEPT (EN)**	4
5	OUTSIDE 50@ 208V RECEPTACLE WEST SID...	50 A	2					0 VA	900 VA	1	20 A	**OFFICE RM 116, 118 RECEPT (EN)**	6
7	--	--	--	0 VA	0 VA					1	20 A	RECEPTACLE IN ELECTRIC RM (E)	8
9	**OFFICE RM 114 RECEPT (EN)**	20 A	1			720 VA	1000...			1	20 A	**RM 133 REFRIGERATOR (NR)(GFCI)**	10
11	OUTSIDE RECEPT WEST SIDE (E)	20 A	1					0 VA	1500...	1	20 A	**RM 133 COPY MACHINE (EN)**	12
13	OUTSIDE RECEPT WEST SIDE (E)	20 A	1	0 VA	0 VA					3	20 A	Spare (E)	14
15	OUTSIDE RECEPT WEST SIDE (E)	20 A	1			0 VA	0 VA			--	--	--	16
17	OUTSIDE 50@ 208V RECEPTACLE WEST SID...	50 A	2					0 VA	0 VA	--	--	--	18
19	--	--	--	0 VA	0 VA					3	100 A	SHOP WELDER OUTLET (E)	20
21	(E)	20 A	1			0 VA	0 VA			--	--	--	22
23	**RM 133 RECEPT (EN)**	20 A	1					180 VA	0 VA	--	--	--	24
25	**RM 125 RECEPT (EN)**	20 A	1	900 VA	540 VA					1	20 A	**CORRIDOR 128, 137 RECEPT (EN)**	26
27	**RM 126 RECEPT (EN)**	20 A	1			900 VA	1500...			1	20 A	**MICROWAVE RM 129**	28
29	**RM 127 RECEPT (EN)**	20 A	1					180 VA	0 VA	1	20 A	Spare (E)	30
31	JOHNSON CTRLS CABINET & PWR SUPPLY (E)	20 A	1	0 VA	0 VA					1	20 A	Spare (E)	32
33	BOILER (E)	20 A	1			0 VA	0 VA			1	20 A	RECEPTACLES ON UPPER LEVEL (E)	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	BARN PANEL 208V 3PH 100A (E)	100 A	3	0 VA	0 VA					2	30 A	208V 30A RECEPT IN ELECTRIC RM (E)	38
39	--	--	--			0 VA	0 VA			--	--	--	40
41	--	--	--					0 VA	0 VA	1	20 A	Spare (E)	42
	Total Load:			1440 VA		4660 VA		2760 VA					
	Total Amps:			12 A		41 A		25 A					

Legend:
Circuit Breaker Legend: "(XX)" after circuit load/room number in Circuit Description column on schedule: (E)=Existing circuit breaker serving existing load to remain. (EN)=Existing circuit breaker to remain and be used for new load as indicated. (N)=New circuit breaker in existing circuit space(s). (NR)= New/replacement circuit breaker (remove circuit breaker(s) as required to install and turn over to Owner) (GFCI)=5mA GFCI type circuit breaker

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Receptacle	2340 VA	100.00%	2340 VA		
Kitchen Equipment	1500 VA	50.00%	750 VA	**Total Conn. Load:**	6860 VA
Receptacle - Convenience	2520 VA	80.00%	2016 VA	**Total Est. Demand:**	7106 VA
Receptacle - Refrigerator	1000 VA	80.00%	800 VA	**Total Conn.:**	25 A
Receptacle - Copy Machine	1500 VA	80.00%	1200 VA	**Total Est. Demand:**	20 A

Notes:
NEW CIRCUIT BREAKERS ARE TO MATCH THE EXISTING A.I.C. RATING

Branch Panel: P1-1

Location: ELECTRICAL 122 | **Supply From:** | **Mounting:** Surface | **Enclosure:** Type 1
Volts: 480/277 Wye | **Phases:** 3 | **Wires:** 4
A.I.C. Rating: | **Mains Type:** | **Mains Rating:** 200 A | **MCB Rating:** 200 A

Notes:
EXISTING PANELBOARD - NEW LOADS ARE SHOWN IN BOLD

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	EF-7 (E)	20 A	3	0 VA	0 VA					3	30 A	NEW ROOF TOP UNIT (E)	2
3	--	--	--			0 VA	0 VA			--	--	--	4
5	--	--	--					0 VA	0 VA	--	--	--	6
7	AH-5 (E)	20 A	3	0 VA	0 VA					3	20 A	AH-2 (E)	8
9	--	--	--			0 VA	0 VA			--	--	--	10
11	--	--	--					0 VA	0 VA	--	--	--	12
13	HOT WATER HEATER (E)	20 A	3	0 VA	0 VA					3	20 A	HOT WATER PUMP-1 (E)	14
15	--	--	--			0 VA	0 VA			--	--	--	16
17	--	--	--					0 VA	0 VA	--	--	--	18
19	Spare (E)	20 A	1	0 VA	0 VA					3	20 A	HOT WATER PUMP-2 (E)	20
21	Spare (E)	20 A	1			0 VA	0 VA			--	--	--	22
23	Spare (E)	20 A	1					0 VA	0 VA	--	--	--	24
25	AIR COMPRESSOR (E)	40 A	3	0 VA	0 VA					3	20 A	Spare (E)	26
27	--	--	--			0 VA	0 VA			--	--	--	28
29	--	--	--					0 VA	0 VA	--	--	--	30
31	LIGHTS (E)	20 A	3	0 VA	0 VA					1	20 A	Spare (E)	32
33	--	--	--			0 VA	0 VA			1	20 A	Spare (E)	34
35	--	--	--					0 VA	--	1	--	Space (E)	36
	Total Load:			0 VA		0 VA		0 VA					
	Total Amps:			0 A		0 A		0 A					

Legend:
Circuit Breaker Legend: "(XX)" after circuit load/room number in Circuit Description column on schedule: (E)=Existing circuit breaker serving existing load to remain. (EN)=Existing circuit breaker to remain and be used for new load as indicated. (N)=New circuit breaker in existing circuit space(s). (NR)= New/replacement circuit breaker (remove circuit breaker(s) as required to install and turn over to Owner).

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
				Total Conn. Load:	0 VA
				Total Est. Demand:	0 VA
				Total Conn.:	0 A
				Total Est. Demand:	0 A

Notes:
NEW CIRCUIT BREAKERS ARE TO MATCH THE EXISTING A.I.C. RATING

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CONSTRUCTION DOCUMENTS

STATE OF OHIO — MARK Z. HOPE — E-79009 — REGISTERED PROFESSIONAL ENGINEER

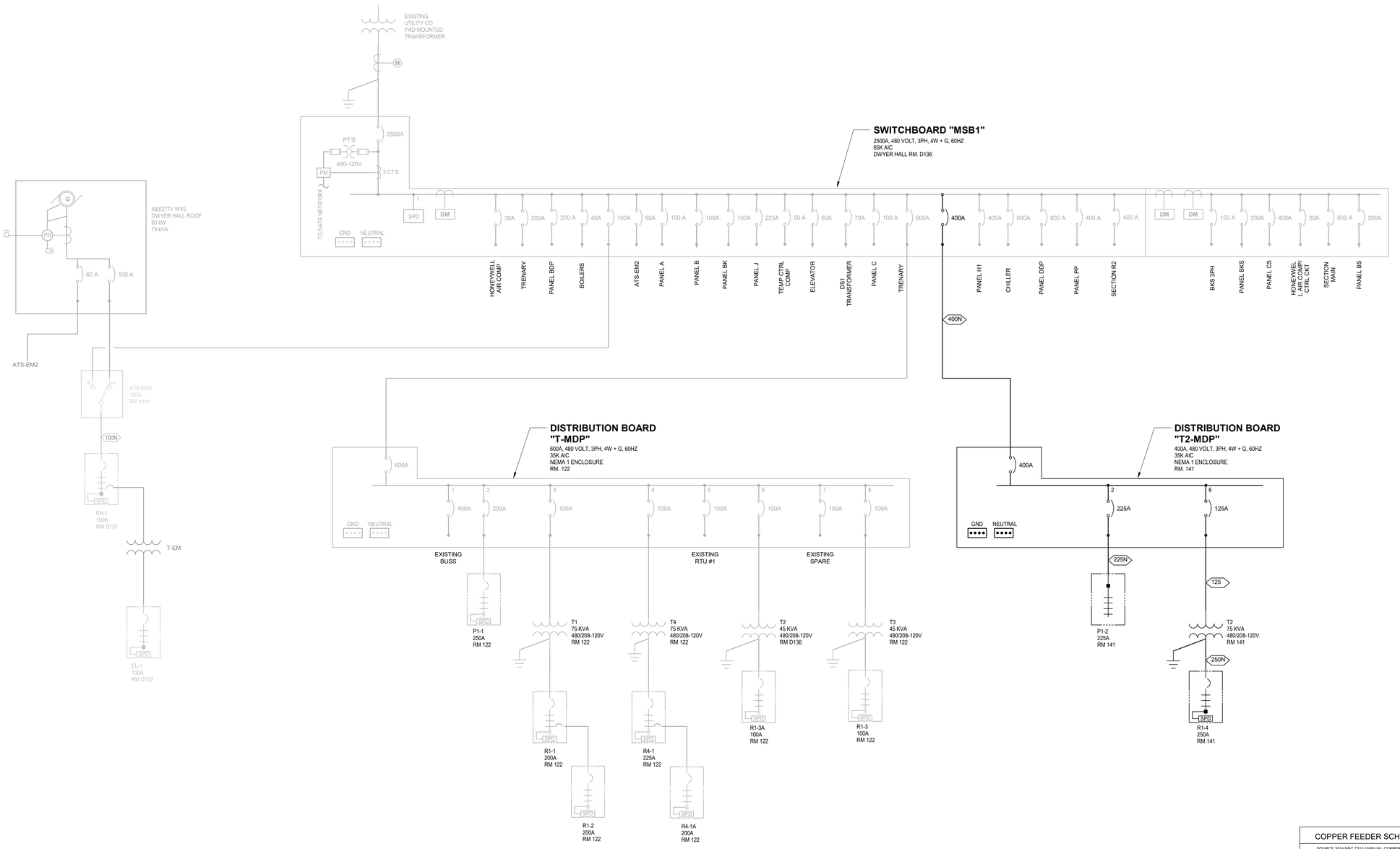
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PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

PANELBOARD SCHEDULES

E-602

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PANEL L1-1 LOADS:		
EXISTING LOAD	21.9 KVA	
	X 1.25	
	27.375 KVA	
PLUS		
NEW LOADS	3.081 KVA	
TOTAL	30.456 KVA	
TOTAL	63.45 AMPS	

PANEL R1-1 LOADS:		
EXISTING LOAD	20.12 KVA	
	X 1.25	
	25.15 KVA	
PLUS		
NEW LOADS	8.860 KVA	
TOTAL	34.01 KVA	
TOTAL	163.5 AMPS	

SWITCHBOARD LOADS:		
EXISTING LOAD	397.3 KVA	
	X 1.25	
	496.625 KVA	
PLUS		
NEW LOADS	142.4 KVA	
TOTAL	639.025 KVA	
TOTAL	1331.3 AMPS	

GENERAL NOTES:
1. ALL ITEMS DEPICTED WITH A LIGHTER LINE-WEIGHT ARE EXISTING TO REMAIN

ONE LINE DIAGRAM SYMBOLS

1AL1	MAIN LUG ONLY CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	DM	DIGITAL ELECTRONIC POWER METER	CHD	COMBINATION MAGNETIC MOTOR STARTER WITH FUSED SWITCH		FUSED SWITCH IN SWITCHBOARD, 3P UNO
		K	KIRK KEY INTERLOCK				DISCONNECT SWITCH IN SWITCHBOARD, 3P UNO
		M	UTILITY METER	CH	COMBINATION MAGNETIC MOTOR STARTER WITH CIRCUIT BREAKER	SPD G	FUSED BOLTED PRESSURE SWITCH WITH GROUND FAULT AND SINGLE PHASE PROTECTION, 3P UNO
2AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	XXXA 5AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SUB-FEED BREAKER, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	CHP	COMBINATION MAGNETIC MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR	E N	TRANSFER SWITCH
3AL1	THROUGH FEED LUGS CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 6AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH INTEGRAL BUS CONNECTED SPD, REFER TO E8 SERIES DRAWINGSFOR PANELBOARD SCHEDULES	VSC	COMBINATION MAGNETIC MOTOR STARTER WITH VARIABLE SPEED CONTROLLER		DISCONNECT, 3P UNO
4AL1	MAIN DOUBLE LUG CIRCUIT BREAKER PANELBOARD, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	SPD 7AL1	MAIN BREAKER IN CIRCUIT BREAKER PANELBOARD WITH SPD MOUNTED ADJACENT WITH CLOSED NIPPLE, REFER TO E8 SERIES DRAWINGS FOR PANELBOARD SCHEDULES	EO	COMBINATION MAGNETIC MOTOR STARTER WITH ELECTRONIC OVERLOADS		MOLDED CASE CIRCUIT BREAKER, 3P UNO
							CIRCUIT BREAKER IN SWITCHBOARD, 3P UNO
							INSULATED CASED POWER CIRCUIT BREAKER WITH L.I.S.G. PROTECTION FEATURES, 3P UNO
							DRAWOUT CIRCUIT BREAKER, 3P UNO
						S	SHUNT TRIP OPERATED CIRCUIT BREAKER
							FUSED POTENTIAL TRANSFORMER
							CURRENT TRANSFORMERS, 3 UNO
							CAPACITOR
							EARTH GROUND
						LA	LIGHTNING ARRESTER
							PLUG AND RECEPTACLE OR DRAWOUT DEVICE
							POWER TRANSFORMER
						X	3 PHASE MOTOR. X INDICATES HORSEPOWER OR KILOWATTS
						CP	CONTROL PANEL FURNISHED UNDER DIVISION 25
						G	GENERATOR

COPPER FEEDER SCHEDULE

SOURCE 2014 NEC T310.15(B)(16), COPPER 75C. (THHW, THW, THWN, XHHW)

X	NO.	CONDUCTOR SIZE			CONDUIT
FEEDER	OF	PHASE	NEUTRAL	GROUND	SIZE
LEGEND	SETS	QTY	(1)	(1)	Inches
15	1	3 # 14		#14	3/4
15N	1	3 # 14	#14	#14	3/4
20	1	3 # 12		#12	3/4
20N	1	3 # 12	#12	#12	3/4
30	1	3 # 10		#10	3/4
30N	1	3 # 10	#10	#10	3/4
40	1	3 # 8		#10	3/4
40N	1	3 # 8	#8	#10	3/4
60	1	3 # 6		#10	1
60N	1	3 # 6	#6	#10	1
80	1	3 # 4		#8	1 1/4
80N	1	3 # 4	#4	#8	1 1/4
100	1	3 # 3		#6	1 1/2
100N	1	3 # 3	#3	#8	1 1/2
125	1	3 # 1		#6	2
125N	1	3 # 1	#1	#6	2
150	1	3 # 1/0		#6	2
150N	1	3 # 1/0	#1/0	#6	2
175	1	3 # 2/0		#6	2
175N	1	3 # 2/0	#2/0	#6	2
200	1	3 # 3/0		#6	2
200N	1	3 # 3/0	#3/0	#6	2
225	1	3 # 4/0		#4	2 1/2
225N	1	3 # 4/0	#4/0	#4	2 1/2
250	1	3 # 250		#4	2 1/2
250N	1	3 # 250	#250	#4	2 1/2
300	1	3 # 350		#3	3
300N	1	3 # 350	#350	#3	3
350	1	3 # 500		#3	4
350N	1	3 # 500	#500	#3	4
400	1	3 # 600		#3	4
400N	1	3 # 600	#600	#3	4
500	2	3 # 250		#2	2 1/2
500N	2	3 # 250	#250	#2	2 1/2
600	2	3 # 350		#1	3
600N	2	3 # 350	#350	#1	3
800	2	3 # 600		#1/0	4
800N	2	3 # 600	#600	#1/0	4
1000	3	3 # 400		#2/0	3
1000N	3	3 # 400	#400	#2/0	3
1200	3	3 # 600		#3/0	4
1200N	3	3 # 600	#600	#3/0	4
1600	4	3 # 600		#4/0	4
1600N	4	3 # 600	#600	#4/0	4
2000	5	3 # 600		#250	4
2000N	5	3 # 600	#600	#250	4
2500	6	3 # 600		#350	4
2500N	6	3 # 600	#600	#350	4
3000	7	3 # 600		#400	4
3000N	7	3 # 600	#600	#400	4
3300	8	3 # 600		#400	4
3300N	8	3 # 600	#600	#400	4
3700	9	3 # 600		#400	4
3700N	9	3 # 600	#600	#400	4

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CONSTRUCTION DOCUMENTS

STATE OF OHIO · MARK Z. HOPE · E-79009 · REGISTERED · PROFESSIONAL ENGINEER

DRAWN BY: RJG
PROJECT NUMBER: 224102.00
PROJECT ISSUE DATE: 09.04.2026

REV. NO.	DESCRIPTION	DATE

ELECTRICAL SCHEMATICS

E-701

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