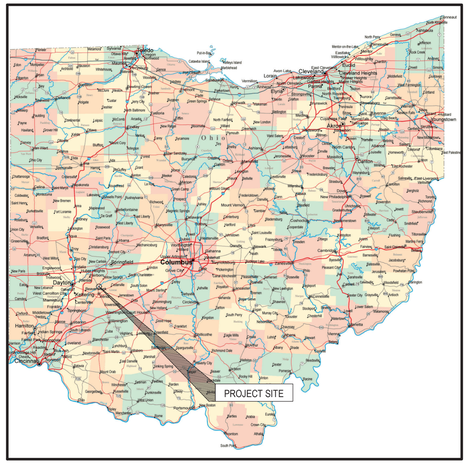
DIVISION OF ENGINEERING

PROJECT NO. DNR-210003

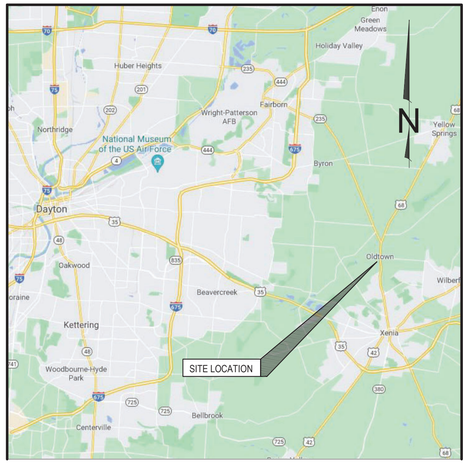
HISTORIC OLDTOWN

NEW INTERPRETIVE CENTER

1575 US RT 68, XENIA, OHIO 45385



STATE MAP SCALE: N.T.S.



VICINITY MAP SCALE: N.T.S.

LOCATION MAP: 1575 US RT 68, XENIA, OHIO 45385

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REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	12" = 1'-0"
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

COVER

SHEET NO. **A0.0**

ABBREVIATIONS

&	And
L	Angle
@	At
℄	Centerline
°	Degree
∅	Diameter
(E)	Existing
⊥	Perpendicular
□	Plate
#	Pound or Number
A.	Area
A.B.	Anchor Bolt
A/C	Air Conditioning
ACOUS.	Acoustical
A.C.I.	American Concrete Institute
A.D.	Area Drain
ADJ.	Adjustable
A.F.F.	Above Finish Floor
AGGR.	Aggregate
AL./ALUM.	Aluminum
ALT.	Alternate
A.N.S.I.	American National Standards Institute
A.P.	Access Panel
APPROX.	Approximate(ly)
ARCH.	Architect(ural)
A.S.H.R.A.	American Society of Heating Refrigerating & Air Conditioning Engineers
ASPH.	Asphalt
A.S.T.M.	American Society for Testing & Materials
B&B	Balled and Burlapped
B/B	Back to Back
B.C.	Bottom of Curb
BD.	Board
BIT.	Bituminous
BLDG.	Building
BLK.	Blocking
BM.	Beam
B.M.	Bench Mark
B.N.	Bull Nose
B.O.C.A.	Building Officials Code Administrators
BOT.	Bottom
BRG.	Bearing
BRK.	Brick
BSMT.	Basement
BTU	British Thermal Unit
BTUH	B.T.U./Hour
C/C	Center to Center
CAB.	Cabinet
CB.	Circuit Breaker
C.B.	Catch Basin
CDX.	Exterior Grade Plywood
CEM.	Cement
CER.	Ceramic
CFM.	Cubic Feet/Minute
CG	Corner Guard
C.I.	Cast Iron
CIR.	Circuit
C..P.	Cast-in-Place
C.A.	Control Joint
CLG.	Ceiling
CLKG.	Caulking
CLO.	Closet
CLR.	Clear
CO.	Cleanout
COL.	Column
CONC.	Concrete
CONN.	Connect(ion)
CONSTR.	Construction
CONT.	Continuous
CONTR.	Contractor
CORR.	Corrugated
CMU	Concrete Masonry Unit
CNTR.	Counter
C.T.	Ceramic Tile
CTSK.	Countersunk
C.W.	Cool White
C.Y.	Cubic Yard
DBL.	Double
DEPT.	Department
DET.	Detail
D.F.	Drinking Fountain
DHW	Domestic Hot Water
DIA.	Diameter
DIAG.	Diagonal
DIM.	Dimension
DISP.	Dispenser
DK.	Deck
D.L.	Dead Load
DN.	Down
D.O.	Door Opening
DP.	Deep, Depth
DR.	Door
DRW.	Drawer
D.S.	Downspout
D.S.P.	Dry Standpipe
DWG.	Drawing
DWL.	Dowel
E.	East
EA.	Each
E.J.	Expansion Joint
EL.	Elevation
ELEC.	Electric(al)
ELEV.	Elevator
EMER.	Emergency
ENCL.	Enclosure
ENGR.	Engineer
E.P.	Electrical Panelboard
EST.	Estimated
EQ.	Equal
EQPT.	Equipment
E.W.	Each Way
E.W.C.	Electrical Water Cooler
EXP.	Expansion
EXPO.	Exposed
EXST.	Existing
EXT.	Exterior
F.A.	Fire Alarm
FAB.	Fabricate(d)
F.A.	Flat Bar
FBGS.	Fiber Glass
F.A.	Foot Candles
F'C.	Compressive Strength in Concrete
F.B.	Floor Drain
FDN.	Foundation
F.A.	Fire Extinguisher
F.A.C.	Fire Extinguisher Cabinet
FF&E	Furnishings, Fixtures, & Equipment
F.H.C.	Fire Hose Cabinet
FIN.	Finish
FIXT.	Fixture
FL.	Floor
FLASH.	Flashing
FLUOR.	Fluorescent
FMG.	Framing
F.O.C.	Face of Concrete
F.O.F.	Face of Finish
F.O.S.	Face of Studs
FPRF.	Fireproof
FR.	Frame
F.R.	Fire Rating
FS	Forged Steel
G.	Finish Surface
F.A.	Floor Sink
G.	Foot or Feet
FTG.	Footing
FURR.	Furring
FUT.	Future
GA.	Gauge
GALV./G.I.	Galvanized Iron
G.B.	Grab Bar
G.C.	General Contractor
GL.	Glass or Glazing
GND.	Ground
GRD.	Grade
GRAN.	Granular
GYP.	Gypsum
GYP. BD.	Gypsum Board
H.B.	Hose Bibb
H.C.	Hollow Core
HDR.	Header
HDWD.	Hardwood
HDWR.	Hardware
HGT.	Height
H.M.	Hollow Metal
HORIZ.	Horizontal
H.P.	High Point
HR.	Hour
H.R.	Hand Rail
HVAC	Heating, Ventilation & Air Conditioning
I.D.	Inside Diameter (Dim.)
IN.	Inch
INCAN.	Incandescent
INST.	Installation
INSUL.	Insulation
INT.	Interior
INV.	Invert
JAN.	Janitor
JC	Janitor Closet
JST.	Joist
JT.	Joint
KIP	1,000 Pounds
KIT.	Kitchen
K.O.	Knock Out (panel)
LAB.	Laboratory
LAM.	Laminate
LAV.	Lavatory
L.B.	Load Bearing
L.F.	Linear Feet
LG.	Long, Length
LKR.	Locker
L.L.	Live Load
L.P.	Low Point
LT.	Light
MAS.	Masonry
MAT.	Material
MAX.	Maximum
MB.	Marker Board
MECH.	Mechanical
MEMB.	Membrane
MET.	Metal
MEZZ	Mezzanine
MFR.	Manufacturer
M.H.	Manhole
MIN.	Minimum
MIR.	Mirror
MISC.	Miscellaneous
M.O.	Masonry Opening
MOD.	Modular, Modify
MTD.	Mounted
MTL.	Metal
MUL.	Mullion
N.	North
NEC	National Electric Code
NEMA	National Electric Manufacturers Association
N.I.C.	Not in Contract
No.	Number
NOM.	Nominal
NPC	National Plumbing Code
N.T.S.	Not to Scale
O.A.	Overall
OBC	Ohio Building Code
O.C.	On Center
O.D.	Outside Diameter (Dim.)
OFF.	Office
OPNG.	Opening
OPP.	Opposite
ORNA.	Ornament(al)
OVHD.	Overhead
P.C.	Point of Curvature
PERF.	Perforated
PEMB.	Pre-Engineered Metal Building
P.J.	Panel Joint
PL.	Plate
PLAM.	Plastic Laminate
PLAS.	Plaster
PLBG.	Plumbing
PLYWD.	Plywood
PNL.	Panel
POS.	Positive
P.P.	Power Pole
PR.	Pair
PREFAB.	Prefabricated
PREFIN.	Prefinished
PRCST.	Precast
PSF	Pounds/Square Foot
PSI	Pounds/Square Inch
PT.	Point
P.T.	Point of Tangency
P.T.D.	Paper Towel Dispenser
PTD.	Painted
P.T.D./R	Combination Paper Towel Dispenser & Receptacle
PTN.	Partition
P..R.	Paper Towel Receptacle
PVC	Polyvinyl-Chloride
PVMT.	Pavement
Q.T.	Quarry Tile
R.	Riser
R.A.	Return Air
R/RAD.	Radius
R.B.	Resilient Base
R.C.P.	Reinforced Concrete Pipe
R.D.	Roof Drain
REF.	Reference
REFR.	Refrigerator
REINF.	Reinforced
REQ.	Required
RESIL.	Resilient
REV.	Revision
RGTR.	Register
RM.	Room
R.O.	Rough Opening
R&S	Rod & Shelf
R/W	Right-of-Way
RWD.	Redwood
R.W.L.	Rain Water Leader
S.	South
SAN.	Sanitary
S.C.	Solid Core
S.C.D.	Seat Cover Dispenser
SCHED.	Schedule
SCMU	Sound-Absorbing CMU
S.A.	Soap Dispenser
SECT.	Section
SEC	Service Entrance Cable
SH.	Shelf
SHR.	Shower
SHT.	Sheet
SIM.	Similar
S.J.	Sawn Joint
S.M.	Surface Mounted
S.N.D.	Sanitary Napkin Dispenser
S.N.R.	Sanitary Napkin Receptacle
SPEC.	Specification
SPRKLR	Sprinkler
SQ.	Square
S.SK.	Service Sink
SS	Stainless Steel
STA.	Station
STD.	Standard
STL.	Steel
STM	Storm
STOR.	Storage
STRL.	Structural
SUSP.	Suspended
SW.	Switch
S.Y.	Square Yard
SYM.	Symmetrical
T.	Tread
T&G	Tongue and Groove
TB.	Tackboard
T.B.	Towel Bar
T.C.	Top of Curb
TEL.	Telephone
TER.	Terrazzo
THK.	Thick
T.O.B.	Top of Block
T.O.C.	Top of Concrete
T.O.P.	Top of Precast
T.O.S.	Top of Steel
T.O.W.	Top of Wall
T.P.	Top of Pavement
T.P.D.	Toilet Paper Dispenser
TRANS.	Transformer
TRTD.	Treated
T.V.	Television
TYP.	Typical
U.B.C.	Uniform Building Code
U.L.	Underwriters Laboratory
UNF.	Unfinished
U.O.N.	Unless Otherwise Noted
UR.	Urinal
V.C.T.	Vinyl Composition Tile
VENT.	Ventilating
VERT.	Vertical
VEST.	Vestibule
VOL.	Volume
W	Water
W.	West
W/	With
WC	Wallcovering
W.C.	Water Closet
WD.	Wood
W/O	Without
W.P.	Waterproof
W.W.M.	Welded Wire Mesh
WSCT.	Wainscot
WT.	Weight

ARCHITECTURAL DRAWING SYMBOLS

SYMBOL	TYPE	CALLOUT REFERENCE	LOCATION	USE
1 / A101 SIM	DETAIL CALLOUT	DETAIL NUMBER / SHEET NUMBER	PLANS, ELEVATIONS, SECTIONS	AREA OF ENLARGED DETAIL. (PLAN, SECTION, OR ELEVATION).
1 / A101 SIM	DETAIL CALLOUT	DETAIL NUMBER / SHEET NUMBER	PLANS, ELEVATIONS, SECTIONS	VERTICAL "CUT". DIRECTION OF VIEW.
1 / A101	SECTION CALLOUT	SECTION NUMBER / SHEET NUMBER	PLANS, ELEVATIONS	SECTION "CUT". DIRECTION OF VIEW.
1 / A101	EXTERIOR ELEVATION CALLOUT	ELEV. NUMBER / SHEET NUMBER	PLANS	EXT. ELEVATION. DIRECTION OF VIEW.
2 / 1 A101 3 / 4	INTERIOR ELEVATION CALLOUT	ELEV. NUMB ER / SHEET NUMBER	PLANS	INT. ELEVATION. DIRECTION OF VIEW.
0	COLUMN LINE CALLOUT	COLUMN LINE	PLANS	0 — AT FACE / AT CENTER
20S3.16 / XX.XXXX	WALLTYPE CALLOUT	WALL TYPE	PLANS	WALL TYPE LEGEND
ROOM NAME / 101	ROOM NUMBER CALLOUT	ROOM NAME / ROOM NUMBER / OCC. CALC.	PLANS	ROOM INFO. ON ROOM FINISH SCHEDULE SHEETS
XXXX	DOOR NUMBER CALLOUT	DOOR NUMBER	PLANS	DOOR INFO. ON DOOR SCHEDULE SHEETS
A	WINDOW TYPE CALLOUT	WINDOW TYPE	PLANS, ELEVATIONS	WINDOW INFO. ON WINDOW SCHEDULE SHEETS
##	CODED NOTE CALLOUT	CODED NOTE	PLANS, ELEVATIONS, SECTIONS, DETAILS	CODED NOTES LEGEND
Name / Elevation	ELEVATION CALLOUT	ELEMENT OF BLDG. / ELEVATION	ELEVATIONS, SECTIONS	VERTICAL HEIGHT. DATUM AT 100'-0".
1":12"	SLOPE CALLOUT	FLOOR SLOPE / ROOF SLOPE	PLANS, ELEVATIONS, SECTIONS	SLOPE IN ARROW DIRECTION AT RISE:RUN INDICATED.
TYPE / FINISH / 1' - 0" A.F.F.	CEILING CALLOUT	CEILING TYPE / FINISH TYPE / HEIGHT ABOVE FINISH FLOOR	PLANS	CEILING SCHEDULE INFORMATION
FLOOR / BASE / WALL ##	FINISH CALLOUT	FLOOR FINISH / BASE MATERIAL / WALL FINISH	PLANS	ROOM FINISH SCHEDULE INFORMATION

MATERIAL HATCH LEGEND

- EXISTING CONSTRUCTION
- EARTH
- GRANULAR / POROUS FILL (GRAVEL)
- CONCRETE
- CONCRETE MASONRY UNIT / WALL
- BRICK
- METAL / STEEL
- WOOD FRAMING / BLOCKING
- WOOD SHIM / BLOCKING
- PLYWOOD
- FINISHED WOOD
- METAL LATH
- METAL LATH
- GLAZING
- GYPSUM BOARD / ACOUSTIC TILE / PLASTER / MORTAR
- GYPSUM BOARD (PLAN)
- ACOUSTIC TILE
- INSULATION, BATT
- INSULATION, RIGID
- DRAINAGE MESH / NETTING
- FINISHED STONE

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Ohio Department of Natural Resources

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NEW INTERPRETIVE CENTER
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REFERENCE INFORMATION

SHEET NO. **A0.1**

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C2.9	EROSION & SEDIMENT CONTROL DETAILS
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T7.02	TECHNOLOGY DETAILS
T7.03	TECHNOLOGY DETAILS

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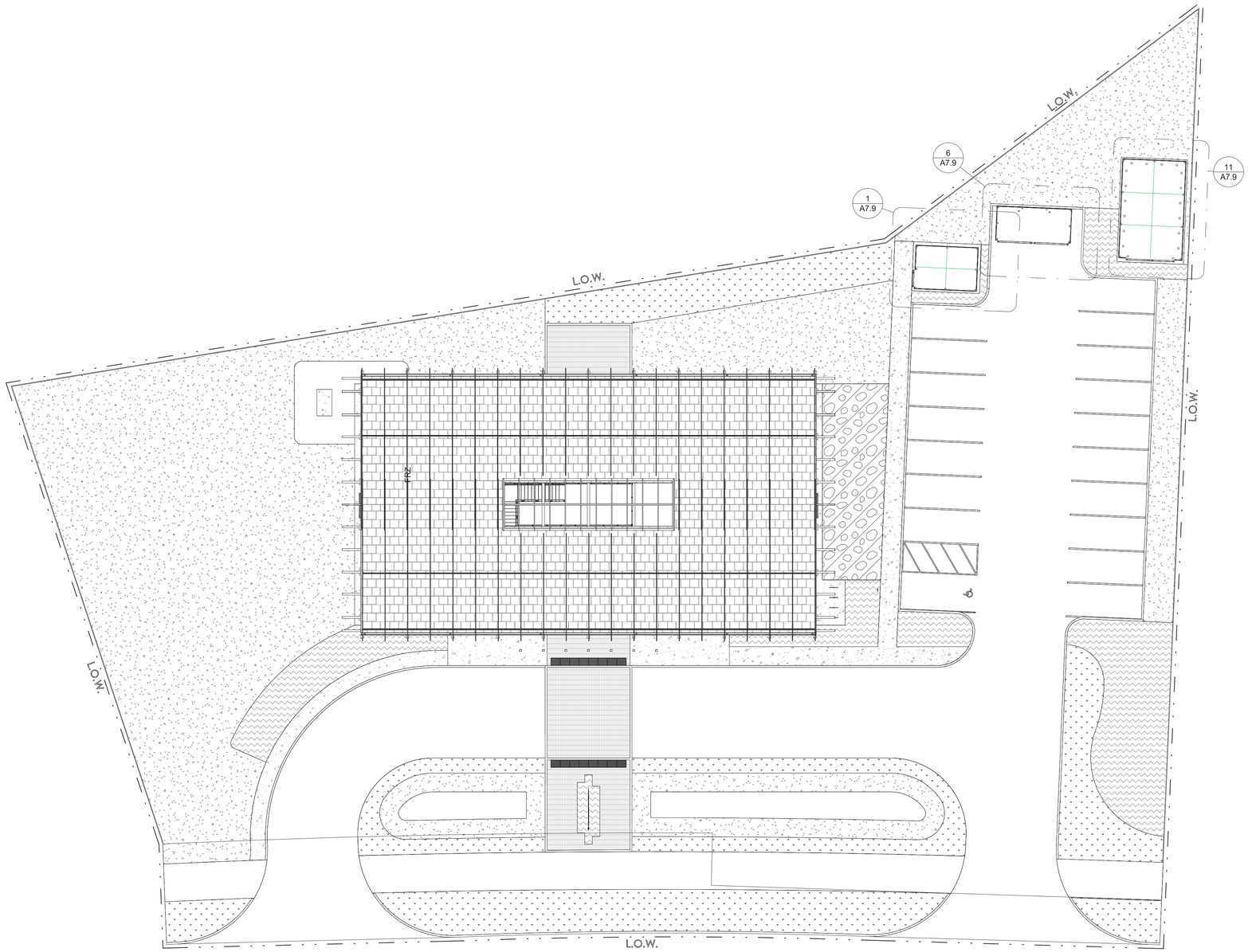
DRAWING INDEX

SHEET NO.
A0.2



1 SITE PLAN
1/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ELECTRICAL, MECHANICAL, TECHNOLOGY, AND FIRE ALARM SYSTEMS, FIXTURES, AND EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND OTHER COMPONENTS OF WORK.
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. MATERIAL PATTERNS SHOWN ON THIS PLAN ARE FOR REFERENCE ONLY. REFER TO LANDSCAPE DRAWINGS FOR MATERIAL INFORMATION RELATED TO SITEWORK AND GROUNDCOVER.

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

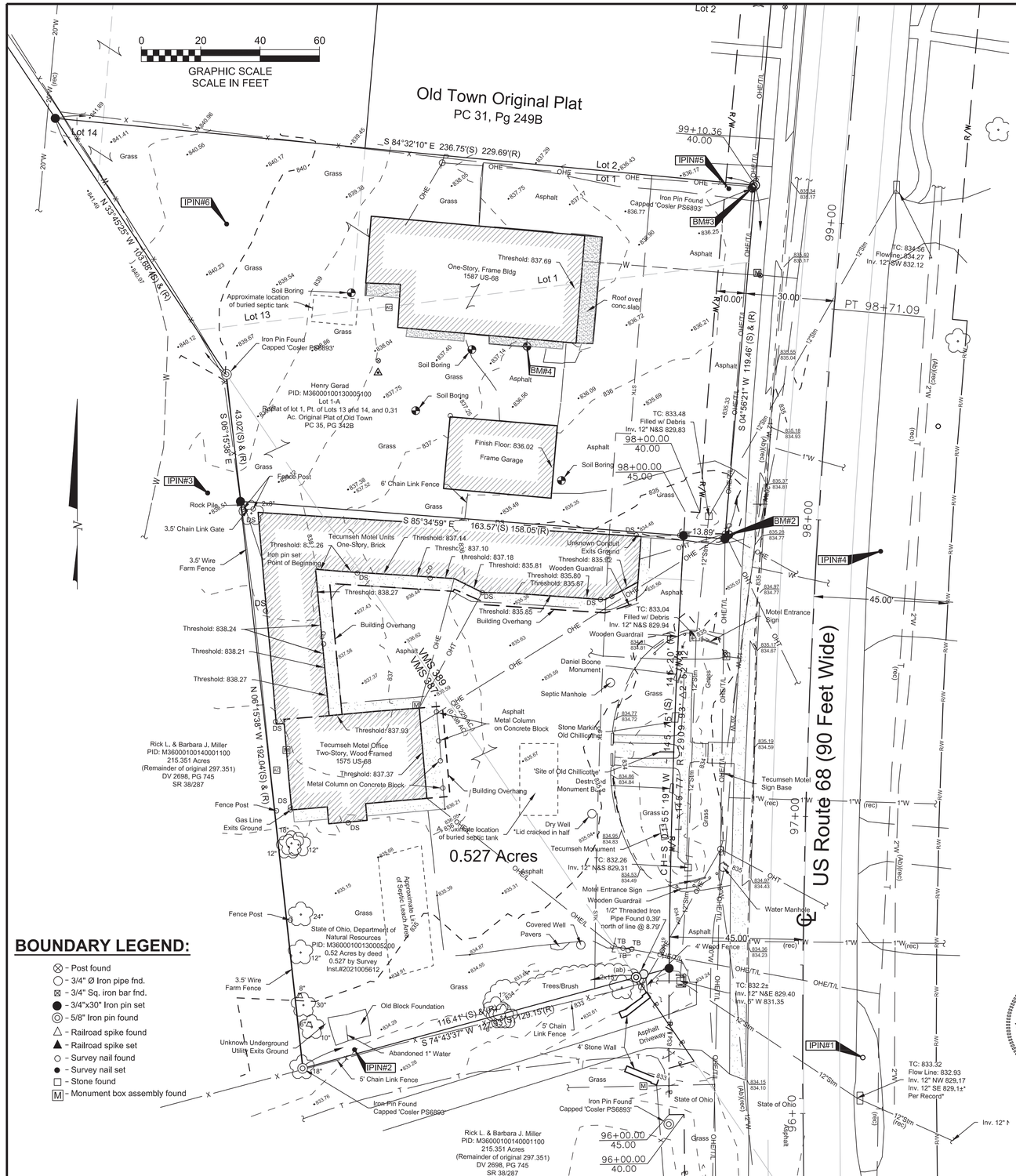
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

SITE PLAN

SHEET NO.
A0.3



BOUNDARY LEGEND:

- ⊗ - Post found
- ○ - 3/4" Ø Iron pipe fnd.
- ☒ - 3/4" Sq. iron bar fnd.
- ● - 3/4"x30" Iron pin set
- ◎ - 5/8" Iron pin found
- △ - Railroad spike found
- ▲ - Railroad spike set
- ○ - Survey nail found
- • - Survey nail set
- □ - Stone found
- M - Monument box assembly found

CONTROL POINTS

No.	Northing	Easting	Elevation	Description
1	632787.080	1564543.315	833.71	3/4" x 30" Iron Pin Set w/ Project Control Cap
2	632789.715	1564372.149	834.16	3/4" x 30" Iron Pin Set w/ Project Control Cap
3	632977.157	1564322.675	838.64	3/4" x 30" Iron Pin Set w/ Project Control Cap
4	632957.506	1564549.303	834.84	3/4" x 30" Iron Pin Set w/ Project Control Cap
5	632920.642	1564426.051	835.76	Mag Nail Set
6	633256.961	1564527.524	835.69	Mag Nail Set

BENCHMARKS

No.	Elevation	Description
1	833.23	Chiseled "X" on the Northwesterly Flange Bolt of First Fire Hydrant South of the Site
2	837.17	Cotton Gin Spike set in the Easterly Face of a Telephone/Power Pole Located at the Southeast Corner of the Site
3	836.61	Cotton Gin Spike set in the Southerly Face of a Telephone/Power Pole Located at the Northeast Corner of the Site
4	836.90	Chisled Square set on Southerly Edge of Concrete Walk

Location Map

NTS

THE PROJECT (GROUND LEVEL) COORDINATE VALUES ARE RELATIVE TO STATE PLANE COORDINATES OHIO SOUTH ZONE NAD 83(2011) BY A PROJECT ADJUSTMENT FACTOR (PAF) = 1.00008081 AND IS BASED ON A MEAN PROJECT LATITUDE OF 39 DEGREES 43 MINUTES 43.98413 SECONDS NORTH AND AN ELEVATION OF 726.243 FEET. COORDINATE VALUES ARE FROM AN ACTUAL SURVEY MADE IN APRIL 2021 BY KORDA-NEMETH ENGINEERING, INC. ELEVATIONS ARE BASED ON NAVD 1988 COMPUTED USING GEIOD18. DIVIDE THE PROJECT DISTANCE OR COORDINATE BY THE (PAF) TO OBTAIN GRID COORDINATES.

TOPOGRAPHIC LEGEND

(applicable for all survey sheets)

Symbol	Description
▨	Building/Wall
	Curb
	Curb and Gutter
	Pavement/Walk
780	Index Contour
781	Intermediate Contour
W	Water line
G	Gas Line
Stm	Storm Sewer
○	Manhole
○	Open Grate Manhole
□ or □	Curb Inlet
⊗	Valve
E	Underground Electric line
T	Underground Telephone
FO	Underground Fiber Optic
R/W	Right of Way Line
ESMT	Easement Line
P/L	Property Line
	Original Subdivision Lot Lines
○	Steam Manhole
	Further route of utility unknown
	Tree Line/Shrub Line

Symbol	Description
	Telephone Pole
T	Telephone Manhole
OHTR	Overhead Signal Line
TR	Underground Traffic Line
	Power Pole
	Light Pole
X	Fence
	Fiber Optic Pull Box
AC	Air Conditioning Unit
AD	Area Drain
CO	Clean Out
DS	Down Spout
	Ground Light
	Fire Hydrant
	Monitoring Well
G	Gas Line Marker
SS	Sanitary Sewer Line Marker
T	Telephone Line Marker
W	Water Line Marker
	Bushes

Symbol	Description
TC 708.50	Top of Casting Elevation
(rec)	Information Obtained From Record Plan
(Ab)	Abandoned Utility
•783.56	Spot Elevation
708.53	Top of Curb Elevation
708.23	Bottom of Curb Elevation
△ or ●	Control Point
-7	Aerial Target
B-7	Boring Location
	Sign
	Flag Pole
	Concrete Pavement, Walk, Slab
	Telephone Pull Box/Pedestal
	Traffic Pull Box
	Unknown Utility Pull Box
E	Electric Pull Box
	Trees

Not all symbols necessarily used

NOTES:

1. All underground utility locations are shown as accurately as possible based on surface evidence (valves and manholes), markings found in the field, and/or record plans received from the owner or utility companies. Items noted (rec) were obtained from existing plans. Utility locations are not necessarily complete or correct. Any utility in close proximity to proposed work should be "potholed" for exact location prior to construction. OUPS Ticket # B108201739-00B.
2. A title report, containing documentation or easements of record was not provided. Not all easements affecting the property may be shown. Property and easement lines are for informational purposes only and should not be used in conjunction with the development of design drawings.
3. The elevations on this survey are based on NAVD 88. Record drawings of buildings and infrastructure may exist having a differing datum. Exercise caution when utilizing this survey by correlating record drawings and proposed work with survey information shown on this drawing.
4. Benchmarks and control points shown on this survey may have been disturbed, since the completion of this survey. Verify that existing monumentation correlates with data shown on this survey prior to use.
5. Utilities noted (Ab) are denoted as such per record plan and may have been abandoned or removed. Their existence and/or status has not been verified.
6. Buildings are located from the surveyed at grade edge. Location of the interior and underground structural footprint has not been verified. Due to possible variations in building exterior above the at grade edge, the building location should be used for site plan use only.
7. Sewer sizes shown are based on an evaluation of record plan information and observation from the manhole casting at grade. Due to manhole depth and safety restrictions entering manhole, sizes shown are approximate.
8. The lots delineated on this plat are found on non-printed F.E.M.A. community panel No. 39057C0135D dated 03/17/2011. The property is located in Zone X and are therefore not in a flood hazard area.
9. Trees shown do not indicate dripline or root area.
10. Building overhangs are in an approximate location.

DANIEL L. QUICK 7803

CERTIFICATION:
I hereby certify that this plat is a true and correct representation of a survey performed under my responsible direction and supervision and is correct to the best of my knowledge.

Daniel L. Quick
REGISTERED SURVEYOR NO.7803

10/26/21
DATE

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

FOR OFFICIAL USE ONLY - Infrastructure Record

This document is an infrastructure record pursuant to Ohio Revised Code 149.433(A). Therefore, it is not a public record and its authorized use, copying or distribution is prohibited.

ENGINEERING
Ohio Department of Natural Resources

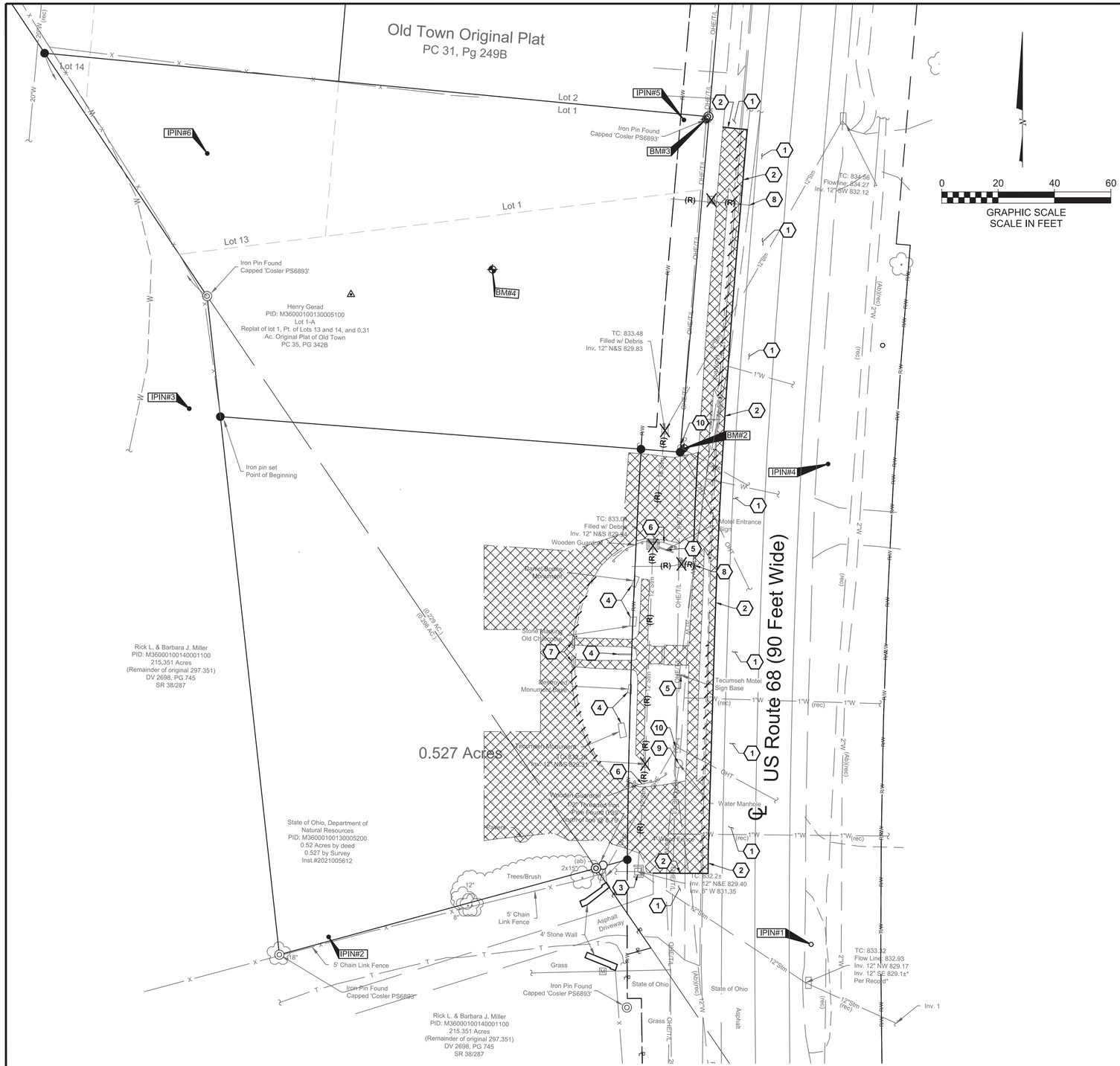
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

FIELD: BY:	NDV	JOB NUMBER:	DNR-210003
DRAWN BY:	DKS	SCALE:	AS NOTED
CHECKED BY:	DLQ	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

TOPOGRAPHIC SURVEY

SHEET NO.
TS1

1
20



GENERAL NOTES:

1. SITE SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING, DATED 10/26/2021. REFER TO SHEET TS1 FOR ALL EXISTING SITE FEATURES.
2. DISPOSE OF CONSTRUCTION DEBRIS OFF-SITE IN ACCORDANCE WITH LOCAL CODES.
3. REMOVE AND DISPOSE OF ON SITE FEATURES AS SHOWN ON THE PLAN.
4. SAW-CUT EXISTING PAVEMENT AT LIMITS OF PAVEMENT REMOVAL TO FULL DEPTH USING CARE TO CUT NEAT, STRAIGHT LINES. CUT AT EXISTING JOINTS WHERE POSSIBLE.
5. CONTRACTOR TO PROTECT EXISTING SITE FEATURES TO REMAIN OUTSIDE CONSTRUCTION LIMITS. REPAIR ANY DAMAGE TO THE SATISFACTION OF THE OWNER AT NO ADDITIONAL COST.
6. CONTROL DUST AT THE SITE. PROVIDE STREET CLEANING WHEN NECESSARY, AND WHEN REQUESTED BY OWNER.
7. GRADE SITE DURING CONSTRUCTION TO PROVIDE POSITIVE DRAINAGE TO EXISTING AND/OR PROPOSED STORM WATER MANAGEMENT SYSTEMS.
8. PERFORM WORK IN ACCORDANCE WITH LOCAL CODES AND REGULATIONS.

(X) CODED NOTES:

1. PROTECT EXISTING PAVEMENT/SIDEWALK TO REMAIN.
2. SAWCUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.
3. PROTECT EXISTING UTILITY STRUCTURE TO REMAIN. ADJUST TO FINAL GRADE.
4. EXISTING HISTORICAL MONUMENT TO BE RELOCATED BY OWNER.
5. REMOVE EXISTING ENTRANCE SIGN AND ASSOCIATED FOUNDATIONS. REMOVE POWER SERVICE BACK TO SOURCE. DE-ENERGIZE POWER SERVICE PRIOR TO SIGN DEMOLITION.
6. REMOVE EXISTING WOODEN GUARDRAIL, POSTS, AND FOUNDATIONS.
7. REMOVE EXISTING PARKING BLOCKS.
8. ABANDON TAP.
9. ADJUST STRUCTURE TO FINAL GRADE.
10. RELOCATE UTILITY POLE.

DEMOLITION LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- REMOVE EXISTING ASPHALT, GRAVEL, AND CONCRETE PAVEMENT, CONCRETE SIDEWALK, BUILDING FOUNDATION, AND PAVEMENT BASE MATERIALS
- REMOVE EXISTING TREE
- SAVE — PROTECT EXISTING TREE TO REMAIN
- REMOVE EXISTING CONCRETE CURB
- REMOVE EX. STRUCTURE
- CUT AND PLUG EXISTING UTILITY
- (AB) — ABANDON EXISTING UTILITY
- (R) — REMOVE EXISTING UTILITY

REVISIONS:
06.16.2022 – CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: JDB
DESIGNED BY: JDB
CHECKED BY: CMF
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

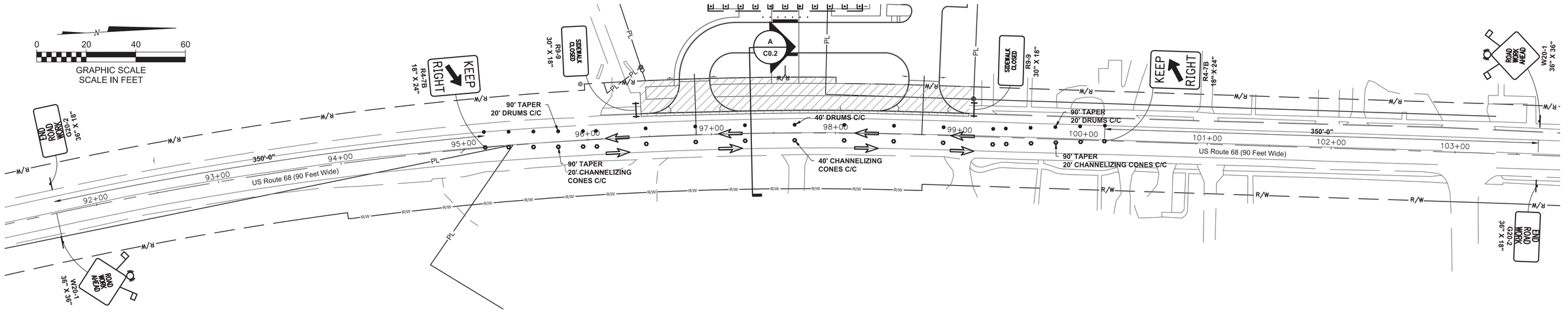
DESIGNED BY:	JDB
DRAWN BY:	JDB
CHECKED BY:	CMF
APPROVED BY:	XX

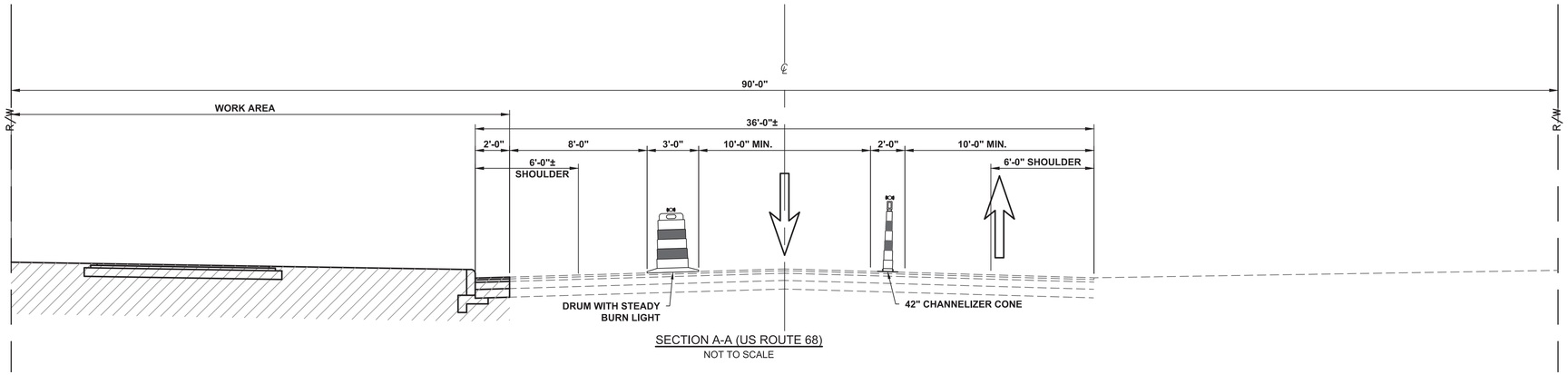
JOB NUMBER:	DNR-210003
SCALE:	AS NOTED
PERMIT DATE:	02.25.2022
DRAWING DATE:	06.16.2022

DEMOLITION PLAN

SHEET NO.
C0.1

2
20





SECTION A-A (US ROUTE 68)
NOT TO SCALE

LEGEND

- DRUM
- 42" CHANNELIZER CONES WITH STEADY BURN LIGHTS
- TEMPORARY SIGN
- TYPE 1 BARRICADE WITH SIGN AS SHOWN
- TRAFFIC DIRECTION ARROW
- WORK AREA

BARREL SPACING CHART	
TANGENT	40' C/C
TAPER	20' C/C
RADII	8' C/C

A DETAIL
US ROUTE 68

N.T.S.

GENERAL NOTES

1. POSTED SPEED LIMIT FOR US ROUTE 68 DRIVE IS 45 MPH.
2. ALL TRAFFIC CONTROL MEASURES SHALL CONFORM TO THE STATE OF OHIO DEPARTMENT OF TRANSPORTATION'S "OHIO MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (OMUTCD).
3. ALL TEMPORARY TRAFFIC CONTROL DEVICES (TTCD) SHALL BE REMOVED AS SOON AS PRACTICAL WHEN THEY ARE NO LONGER NEEDED. MAINTENANCE OF TRAFFIC SCHEMES SHALL BE UTILIZED FOR DAYTIME WORK ONLY. MAINTENANCE OF TRAFFIC TTCD SHALL BE REMOVED OVERNIGHT AND FOR PERIODS WHEN THE CONTRACTOR IS NOT WORKING WITHIN THE SPECIFIED WORK ZONE.
4. ALL UTILITY TRENCHES SHALL BE BACKFILLED OR SECURELY PLATED DURING NON WORKING HOURS.
5. USE TEMPORARY DRUM CHANNELIZING DEVICES AS SHOWN IN FIGURE 6F-7 AND DESCRIBED IN SECTION 6F.67 OF THE OMUTCD. DRUMS SHALL BE SPACED AT 6' C-C AT INTERSECTIONS AND RADII, 20' C-C ALONG TAPERS, AND 40' C-C ALONG TANGENTS.
6. CONTRACTOR SHALL STAGE WORK TO MAINTAIN ACCESS TO ALL DRIVEWAYS DURING CONSTRUCTION.
7. THE CONTRACTOR SHALL ESTABLISH PEDESTRIAN DETOUR METHODS WITH ASSOCIATED SIGNAGE IN ACCORDANCE WITH THIS PLAN SET AND THE OMUTCD FOR ALL CONSTRUCTION WORK REQUIRING SIDEWALK CLOSURE. THE CONTRACTOR SHALL STAGE WORK REQUIRING SIDEWALK CLOSURE SUCH THAT ONLY ONE SIDEWALK ON EITHER SIDE OF THE STREET IS CLOSED AT ANY GIVEN TIME. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND SAFE MOVEMENT OF PEDESTRIANS THROUGH AND AROUND THE CONSTRUCTION SITE AT ALL TIMES. PEDESTRIAN SAFETY SHALL BE CONSIDERED AT ALL TIMES IN THE PROVISION OF TRAFFIC CONTROL DEVICES REQUIRED BY THESE PLANS AND NOTES. CONTRACTOR SHALL PROVIDE LIGHTS, SIGNS, BARRICADES, AND OTHER WARNINGS TO PHYSICALLY SEPARATE PEDESTRIANS FROM WORK ZONE HAZARDS. AT ALL TIMES, THE PEDESTRIAN MAINTENANCE OF TRAFFIC SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
8. THE MAINTENANCE OF TRAFFIC PLANS OF US ROUTE 68 SHALL BE USED FOR CONSTRUCTION WORK WITHIN ODOT RIGHT OF WAY ONLY. THE DURATION OF THE PHASE OF WORK TO CONSTRUCT IMPROVEMENT TO THIS RIGHT OF WAY, WHICH MAY AFFECT VEHICULAR OR PEDESTRIAN TRAFFIC, IS 14 DAYS. THE PERMIT ASSOCIATED WITH THIS WORK IS NOT VALID FOR OTHER PROJECT WORK ITEMS AND PHASES.
9. THE CONTRACTOR SHALL NOT PERFORM WORK OUTSIDE THE BOUNDARY OF THE CURB LINE ON CITY STREETS, THROUGHOUT THE PROJECT UNLESS EXPLICITLY CALLED FOR IN THESE PLANS.
10. ANY PERMANENT PAVEMENT MARKINGS DISTURBED BY CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR IN-KIND, UNLESS OTHERWISE CALLED FOR IN THESE PLANS.
11. COVER ALL CONFLICTING EXISTING SIGNS AND PAVEMENT MARKINGS.
12. CONTRACTOR SHALL PLACE TEMPORARY DRUM CHANNELIZING DEVICES ALONG THE EDGE OF PAVEMENT LOCATED WITHIN THE WORK ZONES DURING NON WORKING HOURS TO PROTECT NEW ACCESS DRIVES AND CURBING WORK FROM THE ROADWAY. THE CONTRACTOR SHALL PERFORM THIS PROCESS DURING THE CONSTRUCTION OF THE NEW ACCESS DRIVES AND CURBING, AND FOR A MINIMUM OF 5 DAYS AFTER THEIR COMPLETION.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

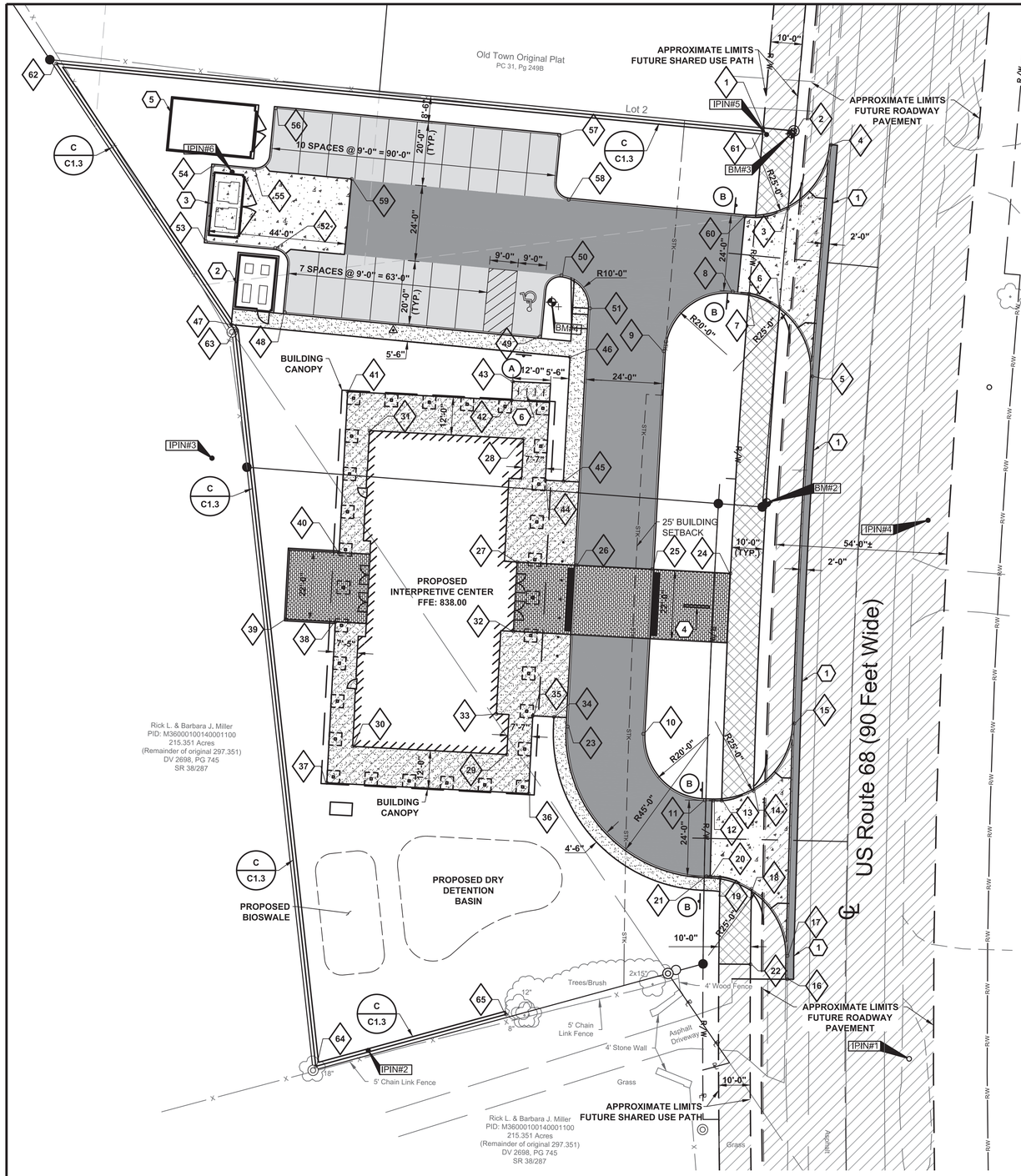
DESIGNED BY:	JDB
DRAWN BY:	JDB
CHECKED BY:	CMF
APPROVED BY:	XX

JOB NUMBER:	DNR-210003
SCALE:	AS NOTED
PERMIT DATE:	02.25.2022
DRAWING DATE:	06.16.2022

MAINTENANCE OF TRAFFIC PLAN

SHEET NO.
C0.2

5
20



GENERAL ZONING & PROJECT INFORMATION	
ADDRESS:	1575 & 1587 US-68
PARCEL NO.:	M36000100130005100 M36000100130005200
EXISTING ZONING CLASSIFICATION/DISTRICT:	B-2/A
TOTAL SITE AREA:	1.06 AC
FRONT BUILDING SETBACK:	25'
SIDE BUILDING SETBACK:	0'
REAR BUILDING SETBACK:	0'
PROPOSED BUILDING HEIGHT:	38'-11"
BUILDING USE:	INTERPRETIVE CENTER
TOTAL BUILDING AREA (SF):	16,048
MAXIMUM LOT COVERAGE:	25%
EXISTING LOT COVERAGE	20.2%
PROPOSED LOT COVERAGE:	18.2%

PARKING CALCULATION

USE		SQUARE FOOTAGE/EMPLOYEES		PARKING SPACES
LIBRARY/MUSEUM/ART GALLERY	1 SPACE PER 600 SF	16,048 SF	16,048 SF/600 = 28	28
	1 SPACE PER 4 EMPLOYEES	1 EMPLOYEE	1 EMPLOYEE = 1	1
			TOTAL REQUIRED LOADING SPACES:	2
			TOTAL REQUIRED PARKING	31
			PROPOSED PARKING	18
			REQUIRED ADA PARKING (VAN/TOTAL)	1/1
			PROPOSED ADA PARKING (VAN/TOTAL)	1/1

STAKING LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- BUILDING/WALL
- STRAIGHT CURB PER DETAIL E/C1.2
- PAVEMENT
- WALK
- SCORE
- CONSTRUCTION LIMITS
- BOLLARD PER DETAIL B/C1.3
- PAINTED WHEELCHAIR SYMBOL
- SIGN PER DETAIL A/C1.3
- CW — PAVEMENT MARKING
- HEAVY DUTY ASPHALT PER DETAIL A/C1.2
- LIGHT DUTY ASPHALT PER DETAIL B/C1.2
- HEAVY DUTY CONCRETE PAVEMENT PER DETAIL C/C1.2
- CONCRETE SIDEWALK PER DETAIL D/C1.2
- CONCRETE SIDEWALK WITH MICRO ETCH FINISH PER DETAIL D/C1.2. REFER TO SPECIFICATION SECTION 32 13 13 FOR MICRO ETCH INFORMATION
- BRICK PAVERS, REFER TO LANDSCAPE DRAWINGS
- SHARED USE PATH PER DETAIL B/C1.3
- LIMITS OF FUTURE PAVEMENT

STAKING COORDINATE TABLE		
	Northing	Easting
1	633081.68	1564497.16
2	633080.73	1564507.11
3	633056.17	1564504.99
4	633076.35	1564518.63
5	633003.04	1564512.62
6	633024.98	1564502.34
7	633029.23	1564492.65
8	633029.86	1564487.51
9	633011.02	1564465.64
10	632889.90	1564459.16
11	632868.84	1564478.68
12	632868.78	1564481.39
13	632868.75	1564483.99
14	632871.90	1564494.07
15	632893.19	1564506.95
16	632812.25	1564504.76
17	632819.64	1564504.81
18	632840.79	1564493.39
19	632844.53	1564483.45
20	632844.80	1564480.37
21	632844.82	1564479.17
22	632816.98	1564493.09

STAKING COORDINATE TABLE		
	Northing	Easting
23	632892.21	1564435.25
24	632940.69	1564486.77
25	632942.01	1564461.95
26	632943.30	1564437.98
27	632944.30	1564419.26
28	632983.28	1564421.34
29	632883.34	1564416.00
30	632885.95	1564367.20
31	632985.89	1564372.54
32	632922.33	1564418.09
33	632896.25	1564412.68
34	632895.27	1564430.91
35	632895.63	1564424.21
36	632871.00	1564422.90
37	632874.41	1564359.03
38	632925.34	1564361.76
39	632926.17	1564346.16
40	632947.31	1564362.92
41	632998.23	1564365.65
42	632995.46	1564417.53
43	633001.45	1564417.85
44	632970.19	1564428.20

STAKING COORDINATE TABLE		
	Northing	Easting
45	632969.89	1564433.90
46	633009.17	1564436.00
47	633019.43	1564328.78
48	633023.33	1564345.78
49	633015.61	1564426.41
50	633035.05	1564433.29
51	633024.56	1564442.33
52	633043.71	1564342.71
53	633045.81	1564320.81
54	633069.70	1564323.09
55	633068.46	1564336.03
56	633087.89	1564342.91
57	633079.32	1564432.50
58	633058.94	1564435.58
59	633065.51	1564366.89
60	633053.60	1564491.34
61	633080.73	1564497.07
62	633102.07	1564273.44
63	633017.42	1564330.01
64	632784.69	1564355.55
65	632801.13	1564415.76

GENERAL NOTES:

1. DIMENSIONS AND COORDINATES ARE GIVEN TO FACE OF CURB AND FACE OF BUILDING UNLESS OTHERWISE NOTED.
2. CURB AND SIDEWALK RADII SHALL BE 5'-0" UNLESS OTHERWISE NOTED.
3. PROVIDE STRIPING AND SYMBOLS AS SHOWN PER ODOT ITEM 641 AND 642. PROVIDE STRIPING PAINT WITH GLASS BEADS. PROVIDE TYPE I OR TYPE IA PAINT IN ACCORDANCE WITH ODOT ITEM 642 DEPENDING ON TEMPERATURE CONDITIONS AT THE TIME OF APPLICATION. TYPICAL LINE WIDTH SHALL BE 4 INCHES, COLOR WHITE. PROVIDE TWO COATS.
4. STANDARD PARKING STALL DIMENSIONS ARE 9'-0" IN WIDTH BY 20'-0" IN LENGTH UNLESS OTHERWISE NOTED.
5. SAWCUT FULL DEPTH SIDEWALK AND PAVEMENT WHERE NEW WORK ABUTS EXISTING CONSTRUCTION. TAKE CARE TO PROVIDE NEAT STRAIGHT LINES. PROVIDE PAVEMENT SEALANT PER ODOT ITEM 423 AT JOINT BETWEEN EXISTING AND NEW ASPHALT. REMOVE CONCRETE TO NEAREST JOINT. PROVIDE ½" PREFORMED EXPANSION JOINT FILLER BETWEEN NEW AND EXISTING CONSTRUCTION.
6. ANY PROPERTY PINS DAMAGED AS PART OF CONSTRUCTION SHALL BE RESET BY AN OHIO REGISTERED SURVEYOR.
7. PROVIDE 1 VAN ACCESSIBLE PARKING SIGNS AS SHOWN ON DETAIL A/C1.3. FINAL LOCATION OF SIGNS TO BE DETERMINED BY ARCHITECT.
8. MAINTAIN PEDESTRIAN AND VEHICULAR ACCESS TO ADJACENT BUILDINGS AT ALL TIMES DURING CONSTRUCTION.
9. REFER TO ARCHITECTURAL DRAWINGS FOR ALL SITE SIGNAGE NOT SHOWN ON THIS SHEET.
10. BUILDING COORDINATES PROVIDED FOR BUILDING LOCATION ONLY. REFER TO ARCHITECTURAL PLANS FOR BUILDING LAYOUT.
11. PROVIDE CONTROL JOINTS PER DETAIL F/C1.2. PROVIDE ISOLATION JOINTS WHERE NEW CONCRETE ABUTS EXISTING STRUCTURES PER DETAIL G/C1.2 AND PER SPECIFICATIONS.

(X) CODED NOTES:

1. SAW-CUT EXISTING PAVEMENT WITH NEAT, STRAIGHT LINES. MATCH EXISTING PAVEMENT GRADE AT THIS POINT.
2. PROPOSED MECHANICAL UNIT ENCLOSURE.
3. PROPOSED DUMPSTER ENCLOSURE.
4. PROPOSED MONUMENT SIGN.
5. PROPOSED GENERATOR ENCLOSURE.
6. PROPOSED BICYCLE RACK, REFER TO LANDSCAPE DRAWINGS.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: JDB
DESIGNED BY: JDB
CHECKED BY: CMF
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

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NEW INTERPRETIVE CENTER
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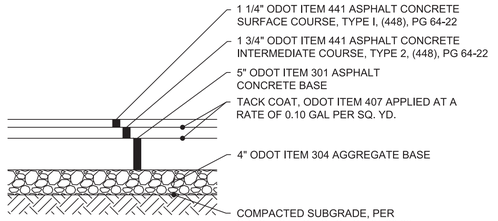
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

STAKING PLAN

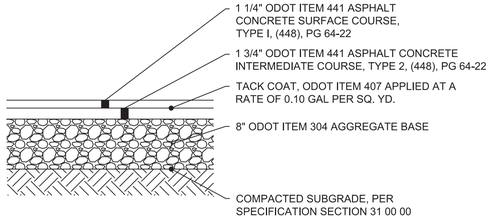
SHEET NO. **C1.1**

3
20



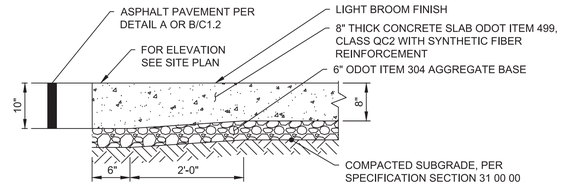
NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
4. THE OWNER'S TESTING AGENCY WILL PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 448 AND SUPPLEMENTAL SPECIFICATION 1055.
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

A DETAIL
HEAVY DUTY ASPHALT PAVEMENT N.T.S.



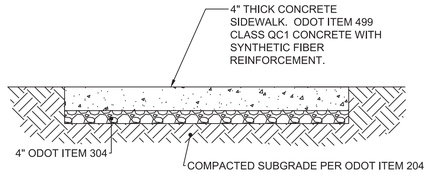
NOTES:
1. COMPOSE HOT MIX ASPHALT MIXTURE WITH AGGREGATE AND ASPHALT BINDER MEETING ODOT REQUIREMENTS.
2. SUBMIT AN APPROVED JOB MIX FORMULA INCLUDING MIX TYPE PROPOSED FOR USE, AGGREGATE SOURCE, TYPE, AND GRADATION, PERCENT OF ASPHALT BINDER, AND UNIT WEIGHT OF THE MIXTURE.
3. OBTAIN JOB MIX FORMULA APPROVAL BY PROVIDING A PREVIOUSLY ODOT APPROVED FORMULA.
4. THE OWNER'S TESTING AGENCY WILL PROVIDE QUALITY ASSURANCE TESTING IN ACCORDANCE WITH ODOT ITEM 441 AND SUPPLEMENTAL SPECIFICATION 1055.
5. PROVIDE COMPACTION RANGING FROM 90 TO 97.9% OF THE AVERAGE MAXIMUM SPECIFIC GRAVITY FOR SURFACE COURSE AND 90 TO 96.9% FOR INTERMEDIATE COURSE. REMOVE AND REPLACE MATERIAL PLACED OUTSIDE OF SAID RANGES. PROVIDE REPLACEMENT PAVEMENT AND QUALITY ASSURANCE TESTING AT NO ADDITIONAL COST TO THE OWNER.

B DETAIL
LIGHT DUTY ASPHALT PAVEMENT N.T.S.



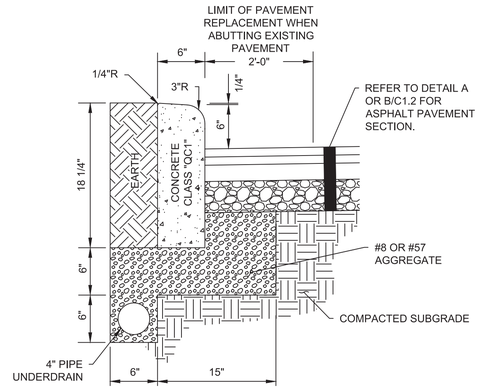
NOTES:
1. PROVIDE JOINTS AS INDICATED ON DRAWINGS. IN ABSENCE OF INFORMATION ON THE DRAWINGS, LOCATE AS SPECIFIED IN SECTION 32 13 00.
2. PROVIDE CONTROL AND ISOLATION JOINTS PER DETAILS F AND G, THIS SHEET.
3. SYNTHETIC FIBER REINFORCEMENT: ASTMC1116/C1116M-10A(2015). ACCEPTABLE PRODUCTS OR APPROVED EQUAL:
   A. NYCON RC OR PROCON-M POLYPROPYLENE FIBER NYLON FIBERS BY NYCON.
   B. NYLO-MONO NYLON FIBERS OR MIGHTY-MONO POLYPROPYLENE FIBERS BY FORTA
   C. FIBERMESH 150 POLYPROPYLENE FIBERS BY PROPEX.
   D. SINTA F19 OR SINTA M2219 BY GCP APPLIED TECHNOLOGIES
   E. PSI FIBERSTRAND 150 BY EUCLID.
4. SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.
5. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
6. PENETRATING SEALER: ACCEPTABLE PRODUCTS OR APPROVED EQUAL:
   A. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   B. PROSOCO - SALTGUARD WB
   C. HULS AMERICA INC. - CHEM-TRETE BSM 40
   D. MASTER BUILDERS INC. - MASTERSEAL SL 40
   E. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   F. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   G. TEX-COTE - RAINSTOPPER RS140
7. IF CONCRETE INSTALLED OCTOBER-MARCH, WAIT UNTIL APRIL-SEPTEMBER TO APPLY PENETRATING SEALER. IF SCHEDULE DOES NOT ALLOW FOR APPLICATION OF SEALER, PROVIDE CREDIT FOR NON-PERFORMANCE.

C DETAIL
HEAVY DUTY CONCRETE SLAB N.T.S.



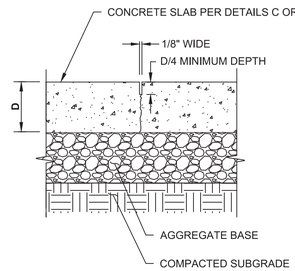
NOTES:
A. SYNTHETIC FIBER REINFORCEMENT: ASTM C1116-97 AND ASTM C1018-97. ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED:
   1. NYCON NYLON FIBERS
   2. FORTA NYLO-MONO NYLON FIBERS
   3. FIBERMESH FIBERMIX STEALTH POLYPROPYLENE FIBERS
   4. GRACE POLYPROPYLENE FIBERS
   SYNTHETIC FIBER REINFORCEMENT SHALL BE USED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. DOSAGE RATE SHALL BE AS RECOMMENDED BY THE MANUFACTURER, BUT NOT LESS THAN 1 POUND PER CUBIC YARD.
B. DISSIPATING CURING COMPOUND: COMPLY WITH ASTM C309-98A, TYPE 1, CLASS B (CLEAR), EXCEPT MOISTURE LOSS NOT TO EXCEED 0.40 KG/SQ M. IN 72 HOURS. COMPOUND SHALL COMPLY WITH EPA'S VOC REQUIREMENTS. APPLY AT THE MANUFACTURER'S WRITTEN RECOMMENDED APPLICATION RATE. COMPLETELY REMOVE CURING COMPOUND PRIOR TO APPLICATION OF PENETRATING SEALER.
C. PENETRATING SEALER: ACCEPTABLE PRODUCTS INCLUDE, BUT ARE NOT LIMITED TO:
   1. L&M CONSTRUCTION CHEMICALS - AQUAPEL PLUS 40
   2. PROSOCO - SALTGUARD WB
   3. HULS AMERICA INC. - CHEM-TRETE BSM 40
   4. MASTER BUILDERS INC. - MASTERSEAL SL 40
   5. LYMTAL INTERNATIONAL - ISO-FLEX 618-50 WB
   6. BASF - ENVIROSEAL 40 OR HYDROZO SILANE 40
   7. TEX-COTE - RAINSTOPPER RS140
D. PROVIDE MICRO ETCH FINISH WHERE SPECIFIED. REFER TO SPECIFICATION SECTION 32 13 13 FOR MICRO ETCH INFORMATION.

D DETAIL
LIGHT DUTY CONCRETE SIDEWALK N.T.S.



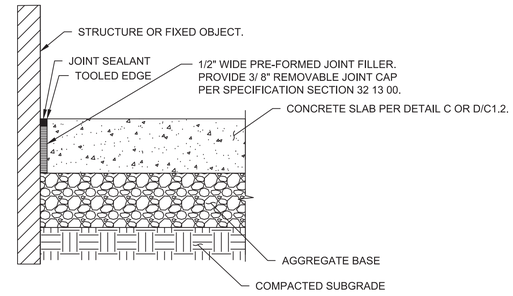
NOTES:
1. ALL EXPOSED SURFACES OF CONCRETE CURB TO BE FLOATED AND BRUSH FINISHED, UNLESS PLACED BY A CURB MACHINE.
2. PROVIDE JOINTS PER SPECIFICATION SECTION 32 13 00.

E DETAIL
STRAIGHT 18" CONCRETE CURB WITH UNDERDRAIN N.T.S.



NOTES:
1. PLACE CONTROL JOINTS WITHIN 8 HOURS OF CONCRETE PLACEMENT AND AT LOCATIONS INDICATED ON THE STAKING PLAN. IF JOINTS ARE NOT SHOWN ON STAKING PLAN, PROVIDE AT LOCATIONS INDICATED BELOW:
   A. SPACING (IN FEET) SHALL BE BETWEEN 2 TO 2-1/ 2 TIMES SLAB THICKNESS (IN INCHES IN BOTH DIRECTIONS (I.E. 4" SLAB SHALL HAVE JOINT SPACING OF 8-10 FEET).
   B. GRID OF CONTROL JOINTS SHALL BE APPROXIMATELY SQUARE WITH LONGEST SIDE TO BE NOT LONGER THAN 1.5 TIMES THE SHORTEST SIDE (I.E. 4 FOOT WIDE WALK SHALL HAVE JOINT SPACING AT 4-6 FEET).

F DETAIL
SAW CUT CONCRETE CONTROL JOINT-LONGITUDINAL OR TRANSVERSE N.T.S.



NOTES:
1. PLACE ISOLATION JOINTS WHERE NEW CONCRETE SLAB ABUTS STRUCTURES OR FIXED OBJECTS INCLUDING: BUILDINGS, WALLS, COLUMNS, POLE BASES, CURBS, CATCH BASINS, EXISTING CONCRETE, OR AS NOTED ON THE STAKING PLAN.
2. PROVIDE AT FORMED EDGE OF PREVIOUSLY POURED SLABS. SEAL JOINT WITH JOINT SEALANT, SEE SPECIFICATION SECTION 32 13 00.
3. SUBMIT SAMPLE FOR COLOR APPROVAL. PRE-FORMED JOINT FILLER - NON-IMPREGNATED TYPE, CLOSED CELL RESILIENT POLYETHYLENE FOAM, 1/2" THICK UNLESS OTHERWISE NOTED, CERAMAR FLEXIBLE FOAM EXPANSION JOINT BY W.R. MEADOWS OR EQUAL MEETING THE REQUIREMENTS OF ASTM D 1752 SECTIONS 5.1 THROUGH 5.4. REFER TO SPECIFICATION SECTION 32 13 00.

G DETAIL
CONCRETE ISOLATION JOINT N.T.S.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

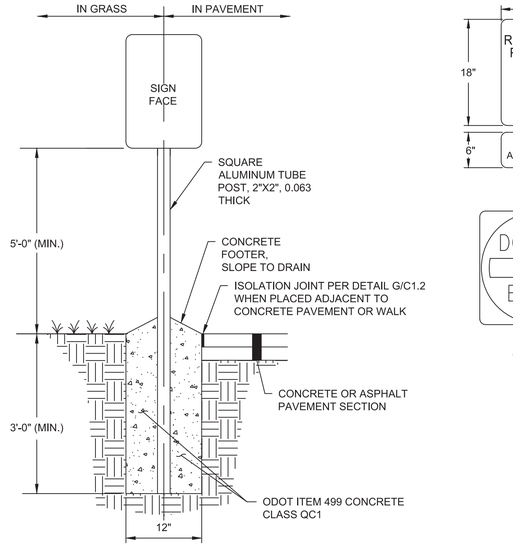
ENGINEERING
Ohio Department of Natural Resources

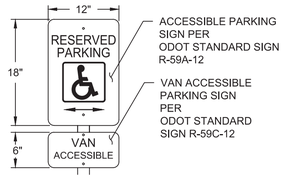
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

STAKING DETAILS

SHEET NO. **C1.2**

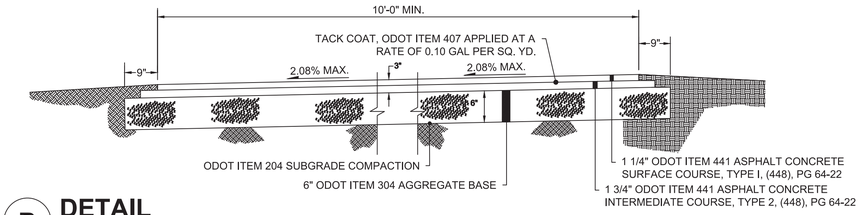




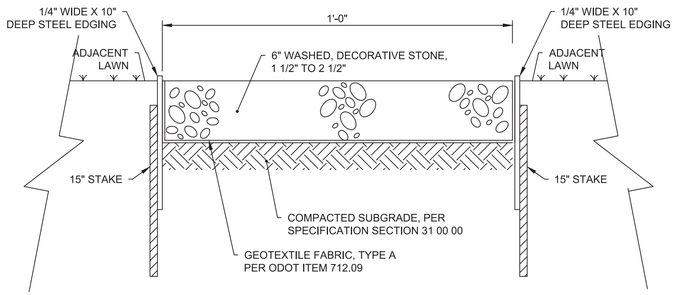
B
R5-1
(30" X 30")

NOTES:
1. PROVIDE SIGN IN ACCORDANCE WITH ODOT ITEM 630.
2. PROVIDE 0.063 THICK, FLAT ALUMINUM SIGN PANELS.
3. PROVIDE REFLECTIVE FINISH ON SIGN.
4. PROVIDE PERMANENT WEATHERPROOF ALUMINUM CAP ON POST TOP.
5. PROVIDE "VAN ACCESSIBLE" SIGN WHERE NOTED ON DRAWINGS.
6. ATTACH SIGNS WITH UNISTRUT UNIVERSAL DRIVE RIVET OR APPROVED EQUAL.
7. ACCESSIBLE SIGNAGE TO BE AS SHOWN UNLESS OTHERWISE SPECIFIED BY LOCAL CODE.

A DETAIL
PARKING SIGNS N.T.S.



B DETAIL
ASPHALT SHARED USE PATH N.T.S.



NOTES:
1. STEEL EDGING SHALL BE COLOR BLACK. TOP OF STEEL EDGING IS TO BE 1/2" ABOVE FINISHED GRADE.
2. COLOR TO BE APPROVED BY THE ARCHITECT.
3. SUBMIT DECORATIVE STONE SAMPLE TO ARCHITECT FOR COLOR AND SIZE APPROVAL.

C DETAIL
STONE MOW STRIP N.T.S.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

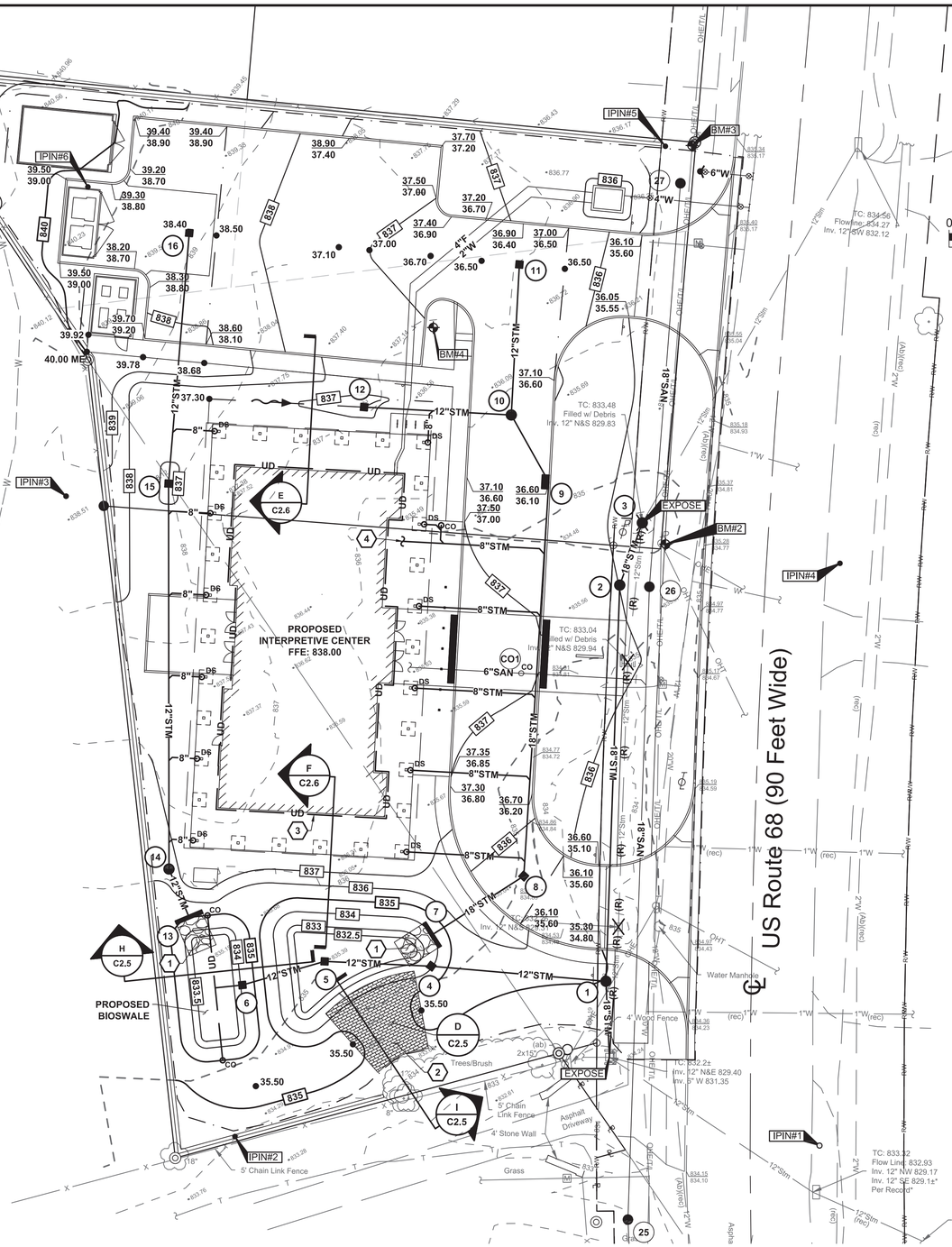
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

STAKING DETAILS

SHEET NO.
C1.3



0 20 40 60

GRAPHIC SCALE
SCALE IN FEET

GENERAL NOTES:

1. PAVEMENT ELEVATIONS REFER TO FINISHED PAVEMENT ELEVATION AT FACE OF CURB UNLESS OTHERWISE NOTED.
2. ADD 800 TO SPOT ELEVATIONS TO OBTAIN U.S.G.S. ELEVATIONS.
3. CONSTRUCTION WORK WILL NOT BE PERMITTED WITHOUT APPROVED PLANS AND INSPECTION.
4. PERFORM WORK IN ACCORDANCE WITH CITY OF PROJECT SPECIFICATIONS SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS.
5. SOIL EROSION AND SEDIMENTATION BMP MEASURES, PER C2.7, SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED UNTIL CONSTRUCTION HAS BEEN COMPLETED, INCLUDING GRASS BEING WELL ESTABLISHED AND/OR PERMANENT EROSION AND SEDIMENTATION BMP MEASURES IN PLACE. BMP MEASURES SHALL BE TO THE SATISFACTION OF GREENE COUNTY AND THE OHIO EPA.
5. REMOVE SEDIMENT FROM STORM SEWERS, STORM STRUCTURES, AND UNDERDRAINS ONCE FINAL SEED HAS BEEN ESTABLISHED.
6. DIMENSIONS AND COORDINATES ARE TO FACE OF CURB OR FACE OF BUILDING UNLESS OTHERWISE NOTED.
7. MAXIMUM FINISH SLOPES SHALL BE 4:1 UNLESS OTHERWISE NOTED.
8. COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING. DATED 10/26/2021. REFER TO SHEET TS1.
9. CONTRACTOR SHALL STRIP AND STOCKPILE EXISTING TOPSOIL THROUGHOUT THE SITE PRIOR TO EXCAVATION. UPON COMPLETION OF FINAL GRADING, PROVIDE 6 INCHES OF TOPSOIL AND SEED AREAS DISTURBED BY CONSTRUCTION, INCLUDING LAYDOWN AREAS AND TRAILER LOCATIONS IF LOCATED OUTSIDE THE GRADING/SEEDING LIMITS.
10. DISPOSE EXCESS EXCAVATED MATERIALS AND UNACCEPTABLE/UNSUITABLE SOILS OFF SITE IN ACCORDANCE WITH LOCAL CODES. NO PERMANENT STOCKPILES WILL REMAIN ON SITE.
11. EXISTING VALVES, MANHOLES, AND OTHER APPURTANCES TO REMAIN LOCATED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO FINISH GRADE.
12. PROVIDE INLET SEDIMENT FILTER PER DETAIL D/C2.8 AT ALL EXISTING AND PROPOSED STORM INLET STRUCTURES RECEIVING FLOW FROM DISTURBED AREAS.
13. SOIL EROSION AND BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. BMP MEASURES SHALL BE TO THE SATISFACTION OF GREENE COUNTY AND THE OHIO EPA. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S AS NECESSARY DUE TO CONSTRUCTION PHASING AS THE PROJECT ADVANCES.
14. EROSION AND SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF GREENE COUNTY AND/OR THE OHIO EPA.
15. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT AND/OR MUD IN THE STREET GUTTERS. AT A MINIMUM CLEAN AT THE END OF EACH WORK DAY.
16. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE SEWER SYSTEM OR A RECEIVING STEAM IS A VIOLATION OF OHIO EPA AND GREENE COUNTY REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

(X) CODED NOTES:

1. PROVIDE TYPE D ROCK CHANNEL PROTECTION, 10'L X 8'-4"W X 1.5'D.
2. PROVIDE BLOCK EROSION CONTROL MATTING, STANDARD FLEXAMAT OR APPROVED EQUAL, 23'L X 18'W.
3. PERIMETER FOUNDATION DRAIN. REFER TO ARCHITECTURAL DRAWINGS.
4. CAP AND MARK FOR FINAL CONNECTION BY PLUMBING CONTRACTOR.

STORM SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
1	834.90	632835.14	1564480.80		
2	836.00	632951.12	1564484.82		
3	835.70	632969.35	1564491.44		
4	834.30	632839.57	1564429.62		
5	832.30	632840.97	1564398.42		
6	834.50	632834.05	1564374.32		
7	834.25	632848.74	1564429.87		
8	835.50	632865.96	1564456.72		
9	836.10	632981.28	1564464.05		
10	836.50	633000.92	1564453.08		
11	836.30	633044.98	1564455.43		
12	836.80	633003.23	1564409.97		
13	835.20	632853.94	1564358.71		
14	836.90	632868.00	1564352.84		
15	836.90	632980.85	1564352.70		
16	838.40	633054.23	1564358.78		

GRADING LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- 800 — INDEX CONTOUR
- 799 — INTERMEDIATE CONTOUR
- BUILDING/WALL
- E — UNDERGROUND ELECTRIC LINE
- T — UNDERGROUND TELEPHONE LINE
- L — UNDERGROUND LIGHTING CIRCUIT
- W — WATER LINE
- STM — STORM SEWER
- UD — UNDERDRAIN
- SAN — SANITARY SEWER
-] — CUT AND PLUG EXISTING UTILITY
- (AB) — ABANDON EXISTING UTILITY
- (R) — REMOVE EXISTING UTILITY
- CATCH BASIN PER DETAIL X/X
- CURB & GUTTER INLET PER DETAIL X/X
- MANHOLE PER DETAIL X/X
- DS — DOWNSPOUT ADAPTER PER DETAIL X/X
- CO — CLEAN OUT
- REMOVE EX. STRUCTURE
- X XXX — STRUCTURE NUMBER
- GRADE BREAK (CROWN) LINE
- GRADING/SEEDING LIMITS
- 708.53 — SPOT ELEVATION
- TC — TOP OF CASTING
- T/C — TOP OF CURB
- G — GUTTER ELEVATION AT FACE OF CURB
- 700.00 / 699.50 — TOP OF CURB ELEVATION / GUTTER ELEVATION AT FACE OF CURB
- E/P — EDGE OF PAVEMENT
- FLOW DIRECTION ARROW
- X — HIGH (CROWN) POINT
- EMERGENCY OVERFLOW
- M.E. — MATCH EXISTING ELEVATION

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

ENGINEERING
Ohio Department of Natural Resources

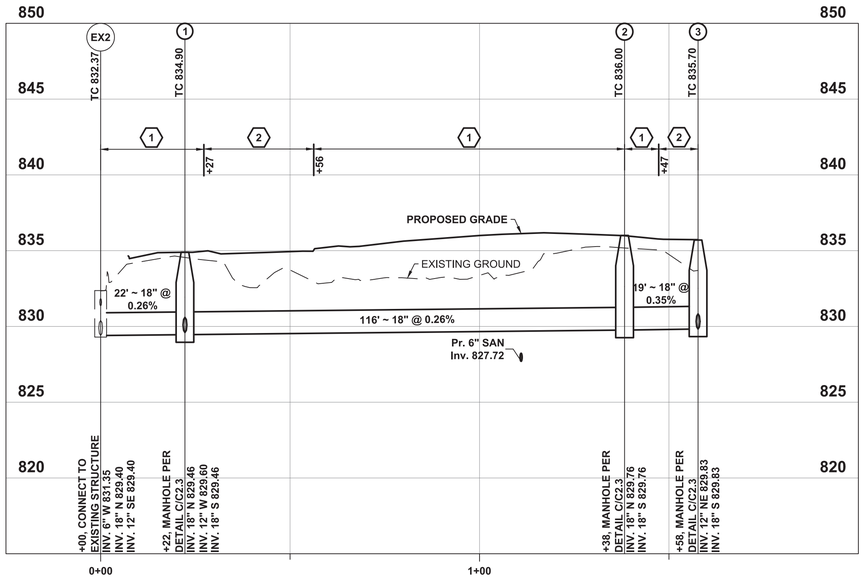
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

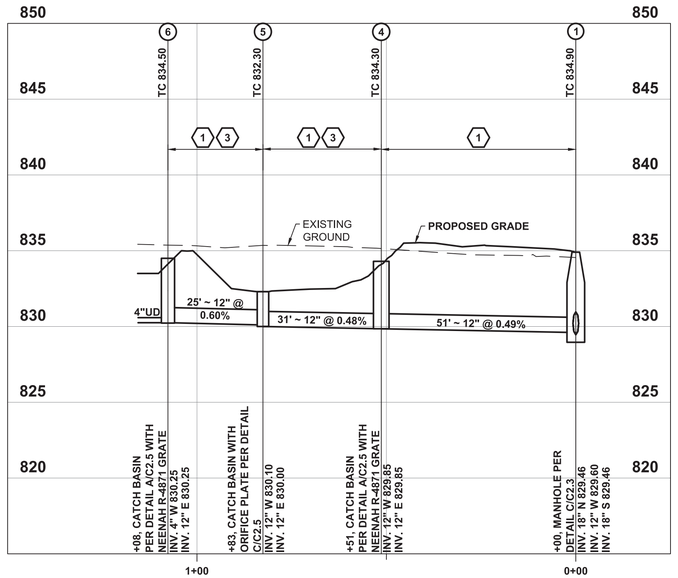
STORM SEWER & GRADING PLAN

SHEET NO. C2.1

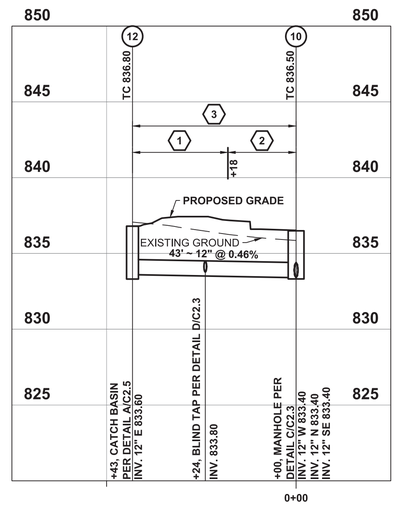
6
20



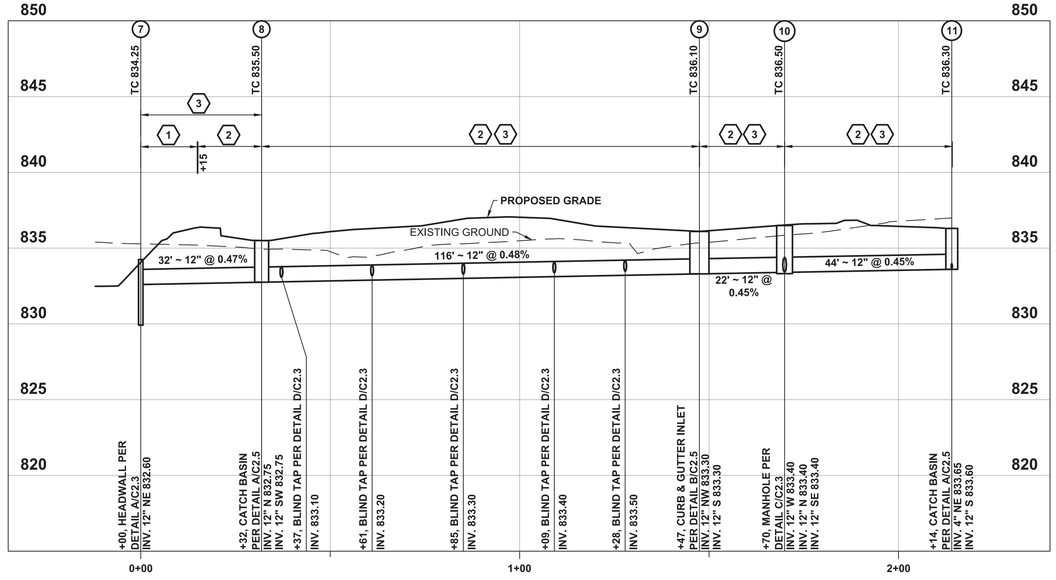
STORM SEWER - EX1 TO 3 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



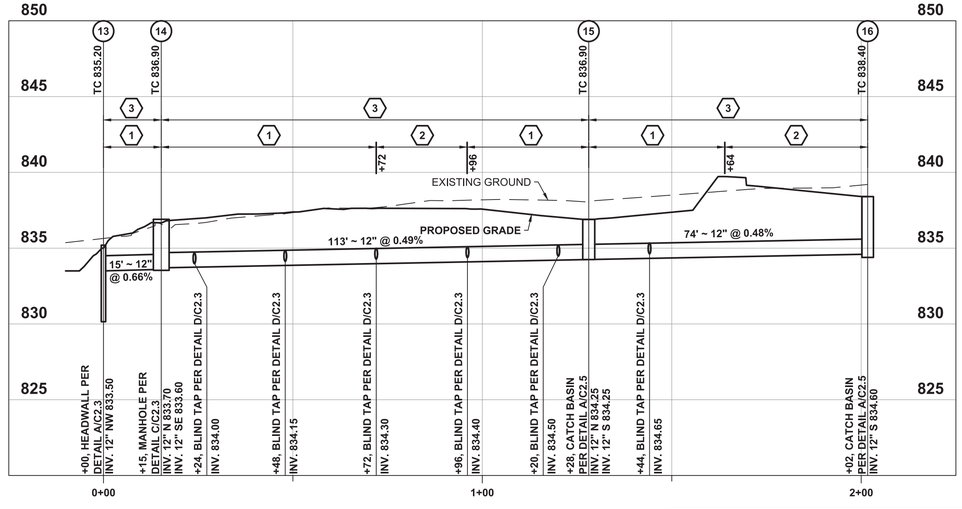
STORM SEWER - 1 TO 5 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM SEWER - 9 TO 11 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM SEWER - 6 TO 10 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



STORM SEWER - 12 TO 15 Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

X CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL TYPE D PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.
2. BACKFILL WITH COMPACTED GRANULAR BACKFILL TYPE A OR J PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.
3. REINFORCED CONCRETE PIPE PER SPECIFICATION SECTION 33 40 00.
4. PROVIDE CONCRETE ENCASEMENT PER DETAIL A/C2.4.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

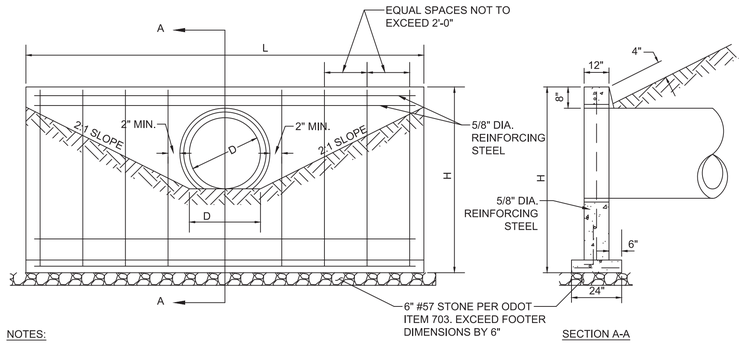
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

STORM SEWER PROFILES

SHEET NO. **C2.2**



SECTION A-A

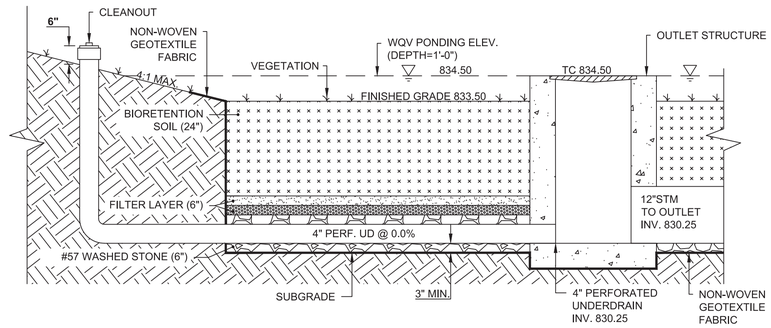
NOTES:

1. HEADWALL WHERE REQUIRED WILL BE PROVIDED FOR NONSKEWED CULVERTS HAVING A DIAMETER OR RISE OF 36" OR LESS.
2. REINFORCING STEEL SHALL BE #5 BAR.
3. CONCRETE SHALL BE CLASS "III".
4. THE SOIL MUST HAVE A BEARING CAPACITY OF 2600 PSF PRIOR TO PLACING HEADWALL.
5. IF SLOPES OTHER THAN 2:1 ARE USED, THE LENGTH "L", AND HEIGHT "H" WILL REQUIRE ADJUSTMENT
6. DIMENSIONS SHOWN ARE FOR CIRCULAR PIPE ONLY.

DIMENSIONS		
DIAMETER	H	L
8"–15"	6'-0"	8'-4"
18"	6'-0"	8'-4"
21"	6'-0"	11'-0"
24"	6'-0"	11'-0"
30"	7'-0"	13'-8"
36"	7'-0"	16'-4"

L CIRCULAR SECTIONS = 5D+4T
H CIRCULAR SECTIONS = D+T+44"
D = DIAMETER OR PIPE
T = THICKNESS OF BARREL
L = LENGTH OF HEADWALL
H = HEIGHT OF HEADWALL

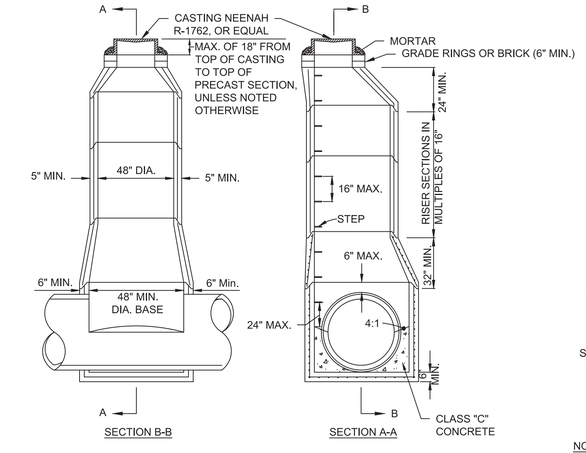
A DETAIL
PIPE CULVERT HEADWALL
N.T.S.



NOTES:

1. INSTALLATION OF BIO-RETENTION BASIN SHALL NOT COMMENCE UNTIL FINAL SITE ELEVATIONS HAVE BEEN ESTABLISHED, EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED, AND ALL UPSTREAM AREAS ARE FULLY STABILIZED. CONSTRUCTION TRAFFIC IS PROHIBITED WITHIN THE LIMITS OF THE BIORETENTION AREAS. BIORETENTION BASIN SHALL BE PROTECTED FROM SEDIMENT AND CONSTRUCTION DEBRIS. NO OTHER MATERIAL SHALL BE MIXED, DUMPED, OR POURED INTO BIO-RETENTION AREA.
2. CONTRACTOR SHALL CONSTRUCT THE BIO-RETENTION BASIN TO THE DIMENSIONS AND GRADES SHOWN ON SHEET C2.1. CARE SHALL BE TAKEN SO THAT THE BOTTOM OF THE EXCAVATION IS NOT COMPACTED.
3. NON-WOVEN GEOTEXTILE FABRIC SHALL BE US FABRICS 120NW OR EQUAL, PLACED UNIFORMLY ALONG THE TOP, SIDES, AND BOTTOM OF EXCAVATION. STAKE OVERLAP PER MANUFACTURER'S INSTRUCTIONS AND MAINTAIN DURING BASIN CONSTRUCTION.
4. PLACE #57 WASHED STONE IN LAYERS NOT MORE THAN 6 INCHES IN LOOSE DEPTH. PLACE BY HAND OR WITH SMALL EQUIPMENT. DO NOT OVERLY COMPACT SUBGRADE OR SAND INTERFACE LAYER WHILE PLACING STORAGE LAYER. DO NOT OVERLY COMPACT #57 STONE.
5. UNDERDRAIN SHALL BE 6" MIN. PVC (SCHEDULE 40) PERFORATED PIPE, PLACED ON 3" MIN. BEDDING WITH PERFORATIONS FACING DOWNWARD. CONNECT UNDERDRAIN TO OUTLET STRUCTURE.
6. FILTER LAYER SHALL CONSIST OF 3" COARSE AGGREGATE (#78 STONE PER ODOT ITEM 703.20) OVERLAIN WITH 3" SAND (ODOT ITEM 703.06). PLACE UNIFORMLY OVER #57 STONE AND LIGHTLY RAKE.
7. BIORETENTION SOIL MIX SHALL CONSIST OF:
   5 PARTS CLEAN SAND (I.E., AASHTO M-6, ASTM C-33 OR EQUIVALENT WITH A GRAIN SIZE OF 0.02-0.04", <1% PASSING NO. 200 SIEVE), 1 PART NATIVE SOIL (LOAM, SILT LOAM, OR CLAY LOAM TEXTURE), AND 2.5 PARTS DECOMPOSED ORGANIC MATTER (LEAF COMPOST, PINE BARK FINES, MULCH FINES, ETC.). FURNISH A QUALIFIED TESTING LABORATORY REPORT STATING THE MIX IS WITHIN THE FOLLOWING PARAMETERS:
   - TEXTURE CLASS: LOAMY SAND, HAVING NO LESS THAN 80% SAND AND NO GREATER THAN 10% CLAY CONSIDERING ONLY THE MINERAL FRACTION OF THE SOIL
   - PH RANGE: 5.2-7.0
   - SOLUBLE SALTS: 500 PPM MAXIMUM
   - DECOMPOSED ORGANIC MATTER: 3-5% BY WEIGHT (NOTE: THIS TRANSLATES TO 8-20% ORGANIC MATTER BY VOLUME).
   - PHOSPHORUS: PHOSPHORUS OF THE PLANTING MEDIA SHOULD FALL BETWEEN 15 AND 60 MG/KG (PPM) AS DETERMINED BY THE MEHLICH III TEST. FOR SITES IN WATERSHEDS WITH A PHOSPHORUS TMDL OR SITES WITH HIGH PHOSPHORUS LOADS, THE PHOSPHORUS CONTENT OF THE PLANTING MEDIA SHOULD FALL BETWEEN 10 AND 30 MG/KG AS DETERMINED BY THE MEHLICH III TEST.
   - MAGNESIUM: MINIMUM 32 MG/KG
   - CATION EXCHANGE CAPACITY (CEC): MINIMUM OF 10
   - INFILTRATION RATE: 1-3 IN/HR
9. PLACE BIORETENTION SOIL MIX IN LAYERS NOT MORE THAN 12 INCHES IN LOOSE DEPTH. PLACE BY HAND OR WITH SMALL EQUIPMENT TO AN ELEVATION 3" ABOVE FINISH GRADE. IF USING SMALL EQUIPMENT, REFRACTURE SOILS THAT HAVE BEEN COMPACTED BY RAKING, DISKING, OR TILLING TO A MINIMUM DEPTH OF 4". SETTLING OF SOIL BY WALKING ON SURFACE AND WORKING WITH HAND EQUIPMENT IS ACCEPTABLE. DO NOT USE VIBRATING PLATE-STYLE COMPACTORS TO INDUCE SETTLING. UNIFORMLY GRADE ENGINEERED SOIL MIX TO A SMOOTH SURFACE, FREE OF IRREGULAR SURFACE CHANGES. DO NOT OVERLY WORK OR COMPACT SOIL MIX.
10. BIORETENTION FACILITIES SHALL BE PLANTED WITH A MIXTURE OF GRASSES AND/OR OTHER HARDY VEGETATION THAT CAN WITHSTAND PROLONGED PERIODS IN A WET ENVIRONMENT.
11. MULCH AND VEGETATION SELECTIONS SHALL BE MADE BY THE LANDSCAPE ARCHITECT AND SHALL COMPLY WITH THE OHIO EPA'S RAINWATER AND LAND DEVELOPMENT MANUAL. VEGETATION MAY INCLUDE A MIX OF GRASSES AND WOODY SPECIES. APPROXIMATELY ONE TREE OR SHRUB PER EACH 50 S.F. OF BIORETETION AREA SHOULD BE INCLUDED. FOR A DIVERSE VEGETATION MIX, IT IS RECOMMENDED THAT AT LEAST THREE SPECIES EACH OF BOTH TREES AND SHRUBS BE PLANTED. TREES WITH HIGH BRANCHING OR OPEN HABITS OF GROWTH ARE RECOMMENDED TO AVOID SHADING AND LOSS OF GRASS COVER. SINCE HIGH CANOPY TREES MAY BE DESTROYED DURING MAINTENANCE, THE AREA SHALL BE VEGETATED TO RESEMBLE A TERRESTRIAL FOREST COMMUNITY ECOSYSTEM THAT IS DOMINATED BY UNDERSTORY TREES. THE TREE TO SHRUB RATIO SHALL BE 2-3:1.

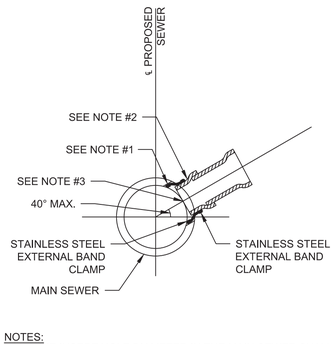
B DETAIL
BIORETENTION BASIN
N.T.S.



NOTES:

1. JOINTS AND CONNECTIONS SHALL CONFORM WITH ASTM C443.
2. PROVIDE WATER TIGHT CAST-IN GASKETS FOR ALL PIPE CONNECTIONS.
3. MANHOLES MUST BE IN ACCORDANCE WITH ASTM C-478.
4. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 5" AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

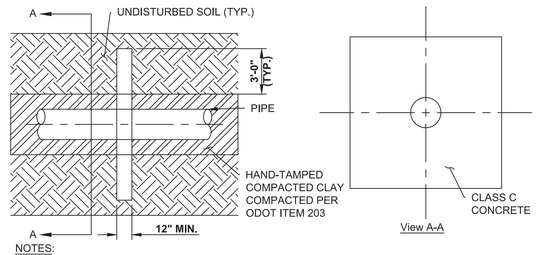
C DETAIL
MANHOLE
N.T.S.



NOTES:

1. THE INSERT HOLE DIAMETER IN THE MAIN SEWER SHALL BE CORED FOR THE DIAMETER REQUIRED FOR THE KOR-N-TEE (OR EQUAL) FLEXIBLE CONNECTOR.
2. BEGINNING OF BELL SECTION OF STUB PIPE TO BE FLUSH WITH END OF FLEXIBLE CONNECTOR.
3. STUB PIPE SHALL NOT EXTEND INTO MAIN SEWER AT ANY POINT.

D DETAIL
BLIND TAP TYPICAL
N.T.S.



NOTES:

1. SPACING BETWEEN ADJACENT COLLARS SHALL BE A MINIMUM OF 5 FEET WITH THE FIRST COLLAR BEING A MINIMUM OF 5 FEET FROM THE INLET.
2. FURNISH A MINIMUM OF 2 COLLARS PER OUTLET CONDUIT.
3. ALL ANTI-SEEP COLLARS AND THEIR CONNECTIONS SHALL BE WATERTIGHT.

E DETAIL
ANTI-SEEP COLLAR
N.T.S.

REVISIONS:
06.16.2022 – CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

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Ohio Department of Natural Resources

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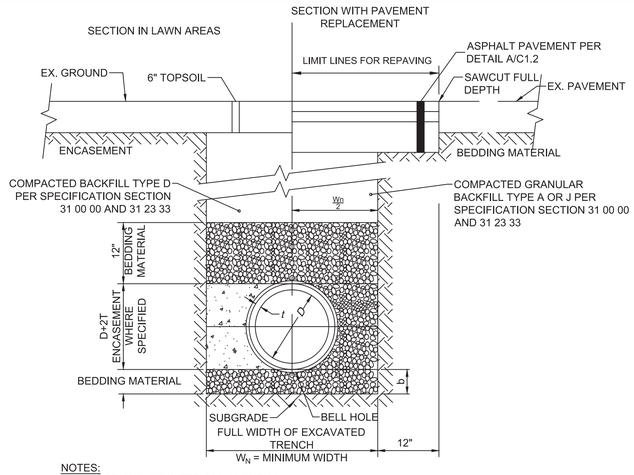
STORM SEWER DETAILS

SHEET NO.
C2.3



NOTES:
1. SECTIONS SYMMETRICAL ABOUT CL.
*2. DIMENSIONS ARE EXPRESSED IN INCHES.
3. BACKING OR ENCASEMENT TO BE ODOT CLASS "QC1" CONCRETE
4. PAYMENT FOR CONCRETE BACKING AND ENCASEMENT SHALL BE BASED ON MINIMUM TRENCH WIDTH (W_N).

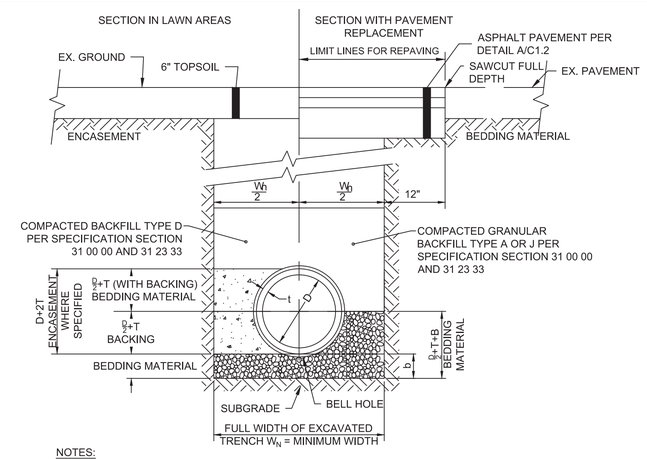
Small Diameters b = 4"

D*	W_n*
6	24
8	27
10	30
12	32
15	36
18	40
21	44
24	48
27	52

Mid Diameters b = 6"

D*	W_n*
30	57
33	61
36	64
42	71
48	78
54	87
60	96

A DETAIL
TYPE 1 BEDDING FOR FLEXIBLE SEWER PIPE & PERMANENT PAVEMENT REPLACEMENT — N.T.S.



NOTES:
1. SECTIONS SYMMETRICAL ABOUT ℄.
*2. DIMENSIONS ARE EXPRESSED IN INCHES.
3. BACKING OR ENCASEMENT TO BE ODOT CLASS "QC1" CONCRETE
4. PAYMENT FOR CONCRETE BACKING AND ENCASEMENT SHALL BE BASED ON MINIMUM TRENCH WIDTH (W_N).

SMALL DIAMETERS B = 4"

D*	W_1*	W_2*
6	24	48
8	27	48
10	30	48
12	32	48
15	36	50
18	40	53
21	44	57
24	48	60
27	52	64

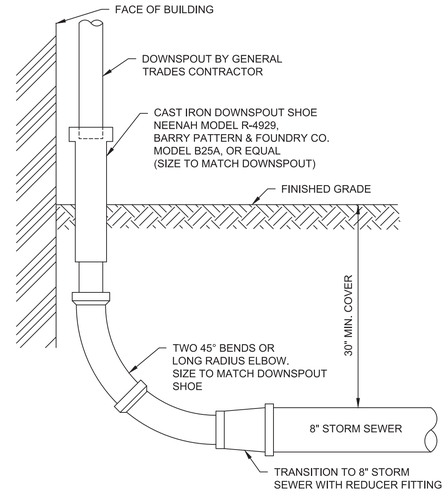
MID DIAMETERS B = 6"

D*	W_1*	W_2*
30	57	67
33	61	71
36	64	74
42	71	81
48	78	88
54	87	95
60	96	102
66	105	127

LARGE DIAMETERS B = 6"

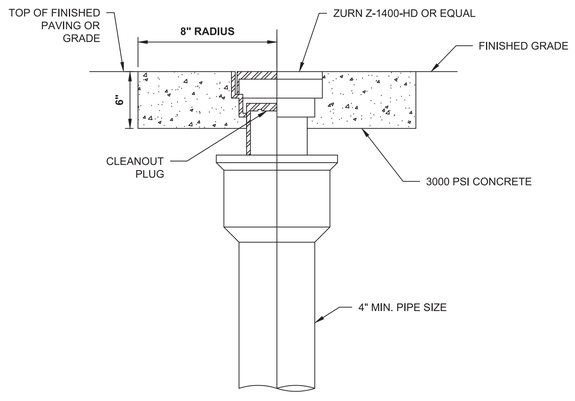
D*	W_1*	W_2*
72	116	134
78	123	141
84	130	148
91	136	155
96	143	162
102	151	169
108	160	176

B DETAIL
TYPE 1 BEDDING FOR RIGID SEWER PIPE & PERMANENT PAVEMENT REPLACEMENT — N.T.S.

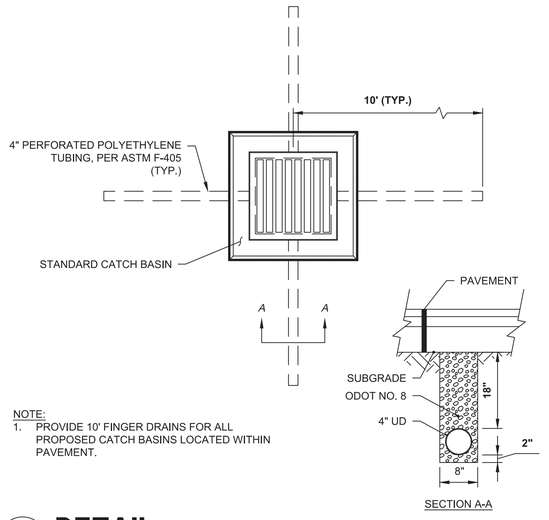


NOTE:
1. COORDINATE DOWNSPOUT SHOE INSTALLATION WITH BUILDING FOUNDATIONS. SELECT THE APPROPRIATE STRAIGHT, OFFSET, OR ANGLED DOWNSPOUT SHOE MODEL ACCORDING TO CONDITIONS ENCOUNTERED IN THE FIELD.

C DETAIL
DOWNSPOUT ADAPTER — N.T.S.



D DETAIL
EXTERIOR CLEANOUT — N.T.S.



NOTE:
1. PROVIDE 10' FINGER DRAINS FOR ALL PROPOSED CATCH BASINS LOCATED WITHIN PAVEMENT.

E DETAIL
PAVEMENT UNDERDRAIN — N.T.S.

REVISIONS:
06.16.2022 - CONFORMED SET

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KORDA/NEMETH ENGINEERING
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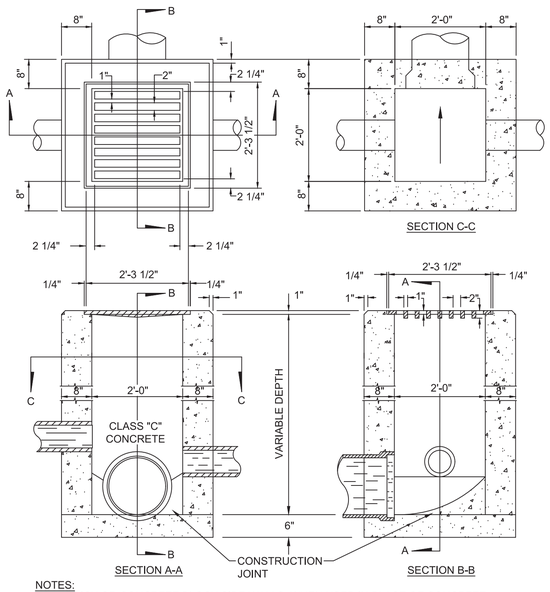
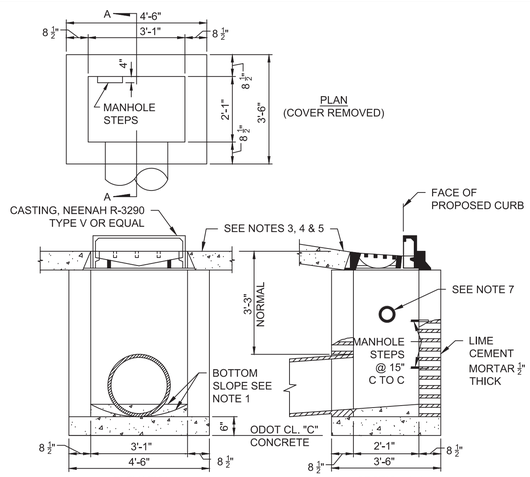
STORM SEWER DETAILS

SHEET NO. C2.4



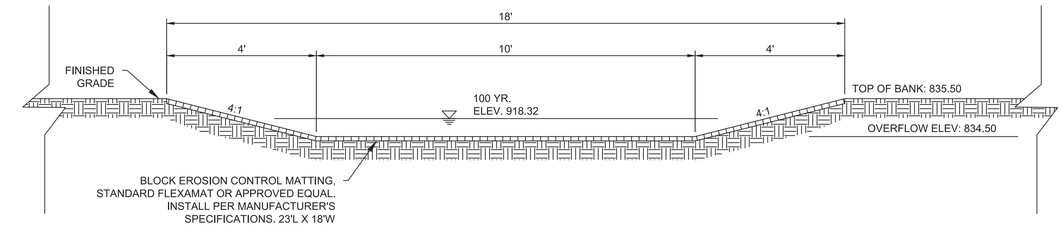
NOTES:
1. BRICK OR CONCRETE BLOCK SIDE WALLS, WHEN USED IN PLACE OF CONCRETE, SHALL BE 8" NOMINAL THICKNESS. WHEN BRICK OR CONCRETE BLOCKS ARE USED, THE OUTSIDE WALLS OF THE CATCH BASIN SHALL BE PLASTERED WITH A 1/2" COAT OF LIME CEMENT MORTAR.
2. GRATE ELEVATION TO BE PLACED 4 TO 6 INCHES BELOW NORMAL DITCH RETURNING TO NORMAL 10 FEET EACH SIDE OF BASIN.
3. CONCRETE CAST IN PLACE TO BE ODOT CLASS "C" ITEM 499.
4. TRAFFIC DUTY FRAME & GRATE NEENAH R-4852 & R-4899 OR EQUAL.
5. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 5 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

A DETAIL
CATCH BASIN N.T.S.

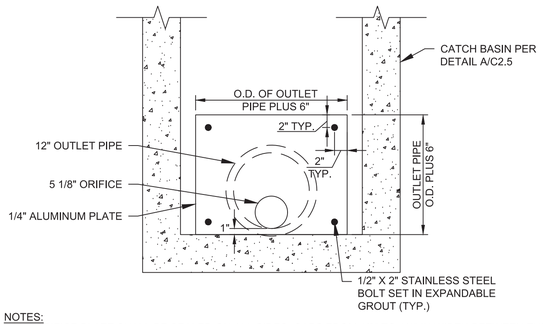


NOTES:
1. THE INLET BOTTOM SHALL BE SHAPED TO PROVIDE SLOPE OF 3" TO 4" TO OUTLET PIPE. THE CROSS SECTIONAL FORM OF BOTTOM AND LONGITUDINAL SLOPE IS TO BE ADAPTED TO LOCATION OF OUTLET PIPE AS DIRECTED.
2. OUTLET PIPE MAY BE LOCATED IN FRONT OR BACK AND THE OUTLET PIPE SHALL BE DIRECTED TOWARDS THE CENTER OF THE INLET.
3. THE EXISTING GUTTER WITHIN AN AREA APPROXIMATELY 4 FT. OUTSIDE INLET OPENING, OR AS OTHERWISE ORDERED, SHALL BE CUT OUT SO THAT REPAVING MAY BE SHAPED TO MEET THE DEPRESSED LIP OF THE INLET OPENING AS DIRECTED.
4. THE EXISTING GUTTER, WHERE CUT OUT FOR DEPRESSION, SHALL BE REPLACED WITH CLASS "C" CONCRETE OF ASPHALTIC CONCRETE PAVING AS ORDERED.
5. THE BACKFILLING WITHIN PROPOSED PAVED AREAS SHALL BE WELL TAMPED IN LAYERS NOT EXCEEDING 4 IN. THICKNESS LOOSE MEASUREMENT, OR BACKFILLED WITH AN APPROVED MATERIAL.
6. WALLS MAY BE BRICK, PRECAST SOLID CONCRETE BLOCKS, CAST IN PLACE CONCRETE (CLASS "C"), OR PRE-CAST CONCRETE (CLASS "C").
7. PLACE 4" CURB DRAIN STUBS 30" BELOW TOP OF CURB OR AS DIRECTED.
8. PRECAST WALLS SHALL HAVE A MINIMUM THICKNESS OF 6 INCHES AND BE REINFORCED SUFFICIENTLY TO PERMIT SHIPPING AND HANDLING WITHOUT DAMAGE.

B DETAIL
CURB & GUTTER INLET N.T.S.

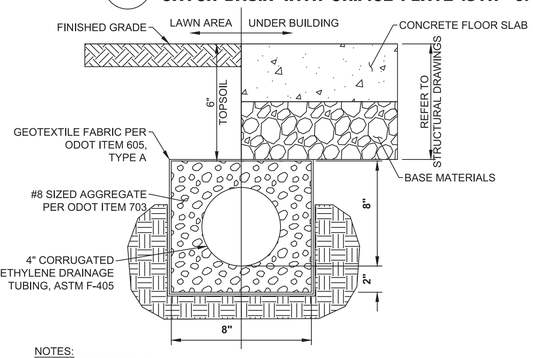


D DETAIL
EMERGENCY OVERFLOW N.T.S.



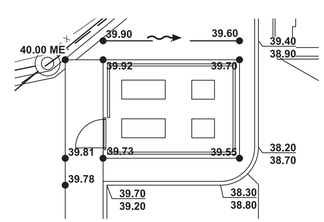
NOTES:
1. ORIFICE PLATE SHALL BE SEALED ON ALL SIDES. GAPS FROM 1/8" TO 1/4" IN WIDTH BETWEEN THE ORIFICE PLATE AND INSIDE WALL OF THE STRUCTURE SHALL BE SEALED WITH SILICONE RUBBER-BASED-CAULK OR POLYURETHANE. GAPS GREATER THAN 1/4" SHALL BE SEALED WITH NON-SHRINK GROUT.

C DETAIL
CATCH BASIN WITH ORIFICE PLATE (STR #5) N.T.S.

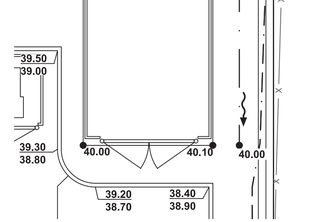


NOTES:
1. SLOPE PIPE TO DRAIN.
2. INSTALL UNDERDRAIN AT CONSTANT DEPTH RELATIVE TO PROPOSED GRADE.
3. TO BE INSTALLED IN PROPOSED DRY DETENTION BASIN.

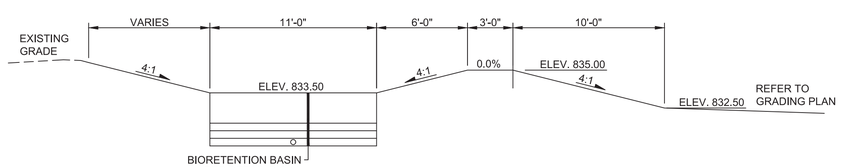
E DETAIL
UNDERDRAIN N.T.S.



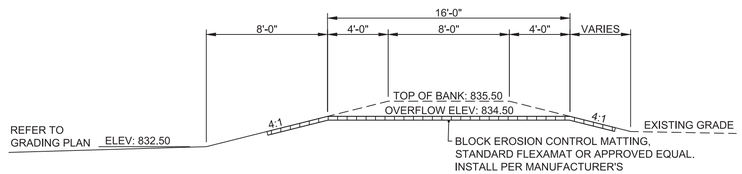
F DETAIL
CONDENSING UNIT ENCLOSURE GRADING N.T.S.



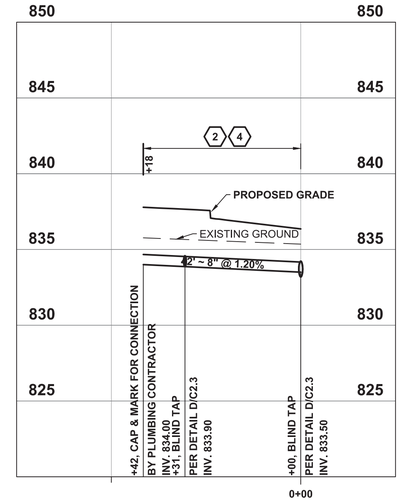
G DETAIL
CONDENSING UNIT ENCLOSURE GRADING N.T.S.



H DETAIL
BIORETENTION BASIN TYPICAL GRADING N.T.S.



I DETAIL
DETENTION BASIN OVERFLOW TYPICAL GRADING N.T.S.



STORM SEWER - SUMP DRAIN Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
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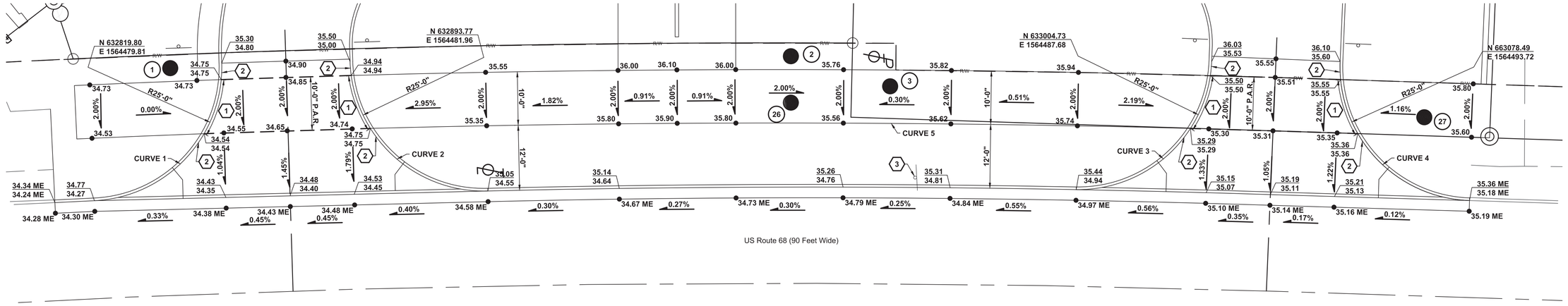
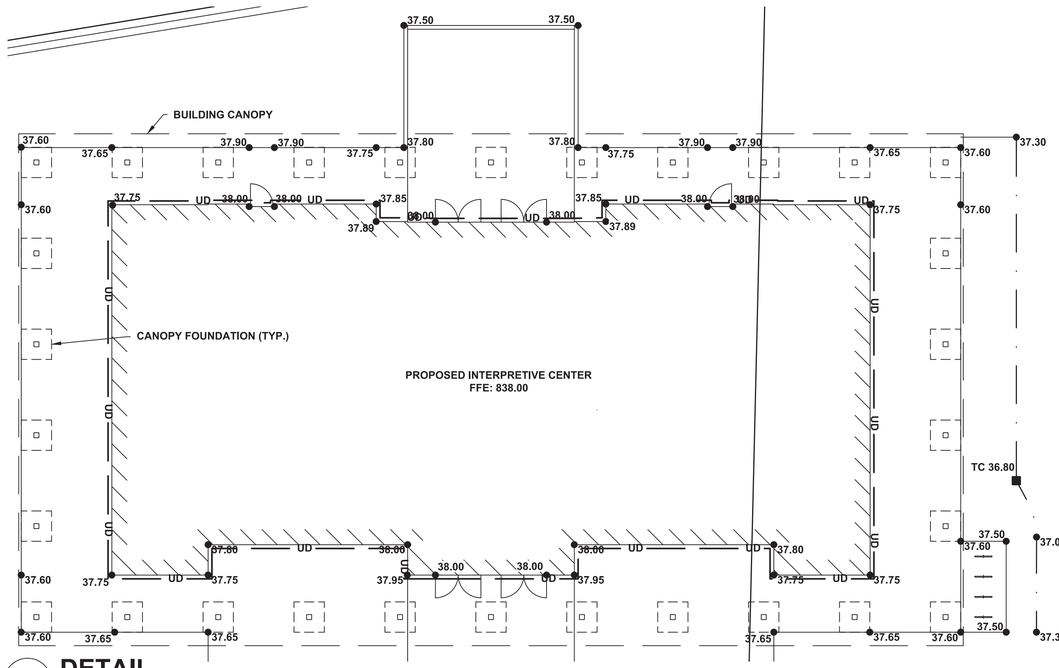
STORM SEWER DETAILS

SHEET NO. **C2.5**



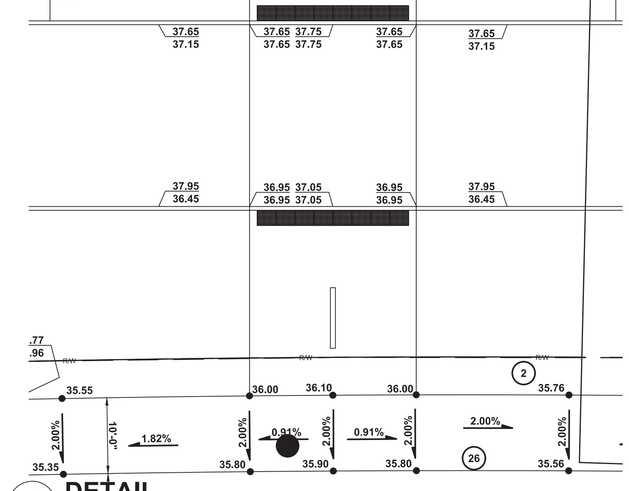
A DETAIL
ENTRY DRIVE & SHARED USE PATH GRADING

1" = 10'



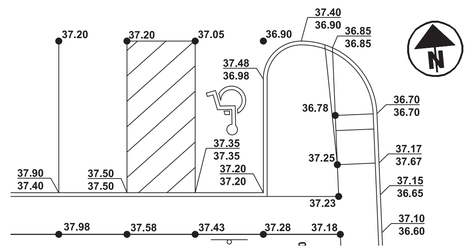
B DETAIL
PROPOSED BUILDING GRADING

1" = 10'



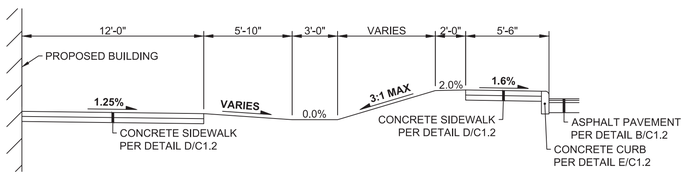
C DETAIL
FRONT DROP OFF GRADING

1" = 10'



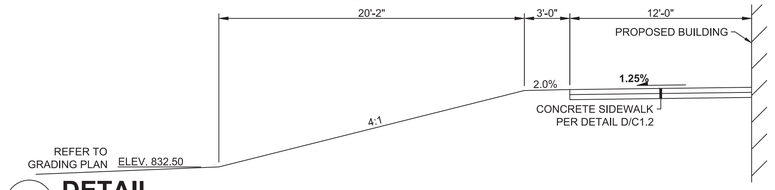
D DETAIL
ADA PARKING AREA GRADING

1" = 10'



E DETAIL
NORTH SWALE TYPICAL GRADING

N.T.S.



F DETAIL
NORTH BASIN EMBANKMENT

N.T.S.

CURVE DATA TABLE

CURVE	Δ	R	L	T	E
1	89° 08' 59"	25.000'	38.863'	24.596'	10.071'
2	89° 58' 13"	25.000'	39.257'	24.987'	10.346'
3	88° 24' 57"	25.000'	38.579'	24.318'	9.877'
4	90° 33' 30"	25.000'	39.514'	25.245'	10.529'
5	03° 02' 04"	2894.928'	153.319'	76.677'	1.015'

(X) CODED NOTES:
1. FLUSH CURB.
2. TAPER FROM FULL HEIGHT CURB TO FLUSH CURB IN 5'-0".
3. PROTECT EXISTING SIGN TO REMAIN.

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

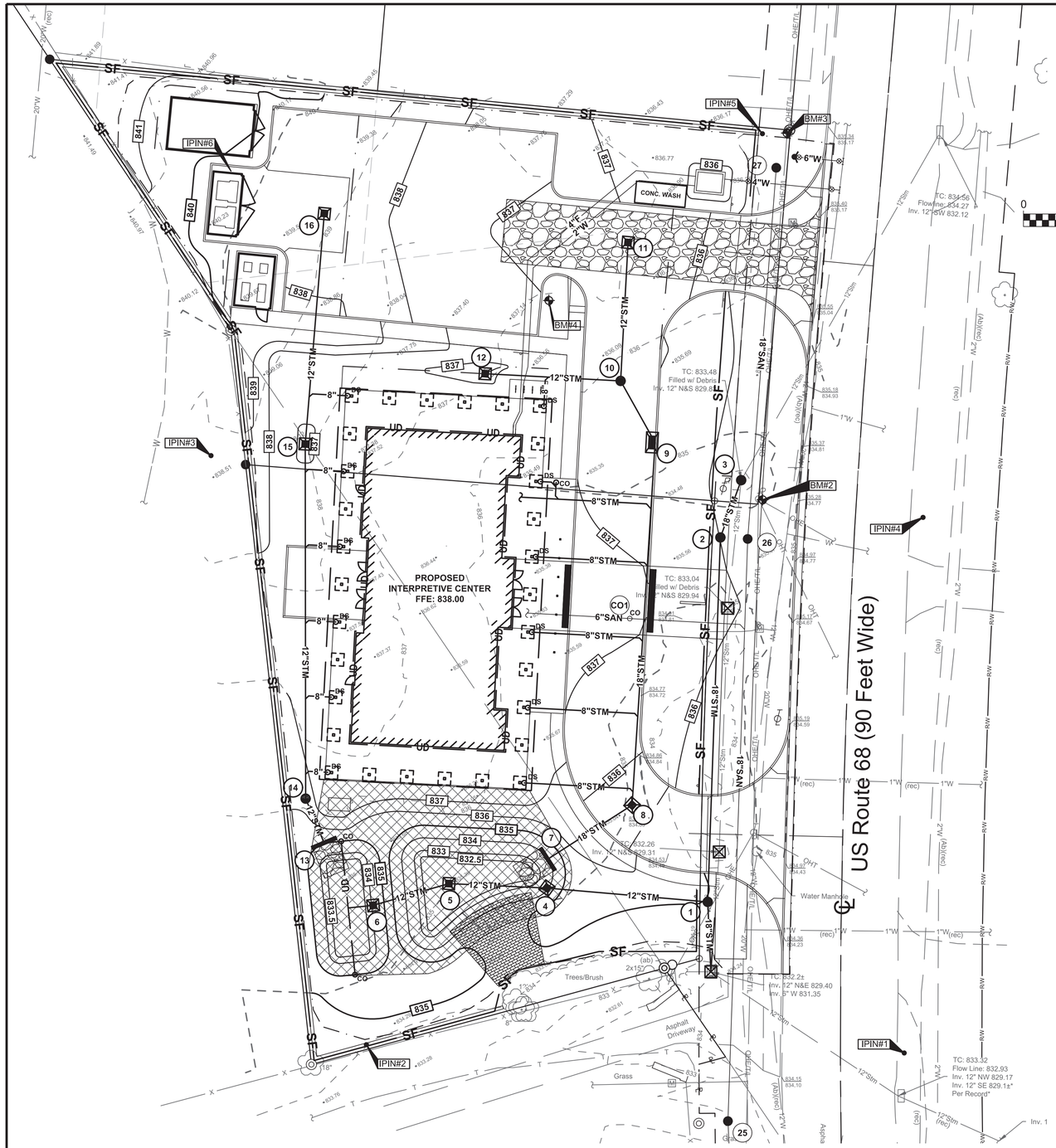
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

GRADING DETAILS

SHEET NO. **C2.6**



POST-CONSTRUCTION POND MAINTENANCE SCHEDULE

THE PROPOSED STORMWATER QUALITY OUTLET STRUCTURE IS A STORMWATER BMP WHICH WILL REQUIRE ONGOING INSPECTION AND MAINTENANCE CLEANING. RESPONSIBILITY AND ASSURANCE OF PERIODIC MAINTENANCE AND THE CONTINUOUS FUNCTIONALITY OF THE CONTROL STRUCTURES IS PERPETUAL; BEGINNING WITH THE OWNER AT THE TIME OF INSTALLATION AND CONTINUING TO ALL FUTURE OWNERS OF SAID PRIVATE STORM SEWER SYSTEM. GENERAL RECOMMENDATIONS ARE AS FOLLOWS:

RELEASE CONTROL STRUCTURE	**VISUALLY INSPECT AND REMOVE SEDIMENT AND TRASH.**	**MONTHLY AND AFTER RAINFALL EVENTS 0.5 INCHES OR GREATER OR IF STANDING WATER PERSISTS FOR MORE THAN 72 HOURS**

MAINTAIN DOCUMENTATION OF ALL INSPECTIONS NOTING WHEN MAINTENANCE IS PERFORMED. PROVIDE DOCUMENTATION TO CITY OF COLUMBUS UPON REQUEST.

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 SURFACE WATER OF THE STATE 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.

WHERE VEGETATIVE STABILIZATION TECHNIQUES MAY CAUSE STRUCTURAL INSTABILITY OR ARE OTHERWISE UNOBTAINABLE, ALTERNATIVE STABILIZATION TECHNIQUES MUST BE EMPLOYED. PERMANENT AND TEMPORARY STABILIZATION ARE DEFINED IN PART VII OF THE PERMIT.

TEMPORARY STABILIZATION

AREA REQUIRING TEMPORARY STABILIZATION	TIME FRAME TO APPLY EROSION CONTROLS
ANY DISTURBED AREAS WITHIN 50 FEET OF A SURFACE WATER OF THE STATE AND NOT AT FINAL GRADE.	WITHIN TWO DAYS OF THE MOST RECENT DISTURBANCE IF THE AREA WILL REMAIN IDLE FOR MORE THAN 14 DAYS.
FOR ALL CONSTRUCTION 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 SURFACE WATER OF THE STATE.	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.

EROSION AND SEDIMENT CONTROL LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- 800 — INDEX CONTOUR
- 799 — INTERMEDIATE CONTOUR
- BUILDING/WALL
- STM — STORM SEWER
- CATCH BASIN
- CURB & GUTTER INLET
- MANHOLE
- DS — DOWNSPOUT ADAPTER
- GRADING/SEEDING LIMITS
- EMERGENCY OVERFLOW
- SF — SILT FENCE PER DETAIL E/C2.8
- INLET FILTER PER DETAIL D/C2.8
- EROSION CONTROL MATTING PER DETAIL A/C2.9
- STABILIZED CONSTRUCTION ENTRANCE PER DETAIL B/C2.8
- CONC. WASH — CONCRETE WASHOUT PER DETAIL C/C2.8

GENERAL NOTES:

1. A COPY OF THE SWPPP PLAN AND THE APPROVED EPA STORMWATER PERMIT (WITH THE SITE-SPECIFIC NOI NUMBER) SHALL BE KEPT ONSITE AT ALL TIMES.
2. ANY EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL.
3. PROVIDE INLET SEDIMENT FILTER PER DETAIL C/C2.8 AT ALL EXISTING AND PROPOSED STORM INLET STRUCTURES RECEIVING FLOW FROM DISTURBED AREAS.
4. SOIL EROSION AND BMP MEASURES SHALL BE INSTALLED PRIOR TO START OF ANY CONSTRUCTION AND SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION. BMP MEASURES SHALL BE TO THE SATISFACTION OF THE OHIO EPA. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING AND MODIFYING BMP'S AND SWPPP AS NECESSARY DUE TO CONSTRUCTION PHASING AS THE PROJECT ADVANCES TO SATISFY THE OHIO EPA TO COMPLY WITH OHIO EPA PERMIT NO. OHC000005 "GENERAL PERMIT AUTHORIZATION FOR STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM".
5. EROSION AND SEDIMENTATION CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF GREENE COUNTY AND/OR THE OHIO EPA.
6. UNDER NORMAL CIRCUMSTANCES, NO OVERLAND DISCHARGE SHALL BE ALLOWED FROM SEDIMENT BASIN.
7. STREET CLEANING (ON AN AS-NEEDED BASIS) IS REQUIRED THROUGH THE DURATION OF THIS CONSTRUCTION PROJECT. THIS INCLUDES SWEEPING, POWER CLEANING, AND (IF NECESSARY) MANUAL REMOVAL OF DIRT OR MUD IN THE STREET GUTTERS. AT A MINIMUM CLEAN AT THE END OF EACH WORK DAY.
8. DIRECT DISCHARGE OF SEDIMENT LADEN WATER TO THE SEWER SYSTEM OR A RECEIVING STEAM IS A VIOLATION OF OHIO EPA AND GREENE COUNTY REGULATIONS. THE CONTRACTOR WILL BE HELD LIABLE FOR THE VIOLATION AND SUBSEQUENT FINES.

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

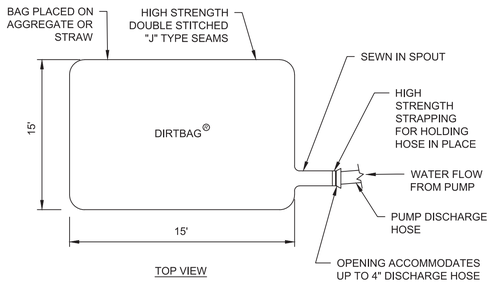
DESIGNED BY:	JDB
DRAWN BY:	JDB
CHECKED BY:	CMF
APPROVED BY:	XX

JOB NUMBER:	DNR-210003
SCALE:	AS NOTED
PERMIT DATE:	02.25.2022
DRAWING DATE:	06.16.2022

EROSION & SEDIMENT CONTROL PLAN

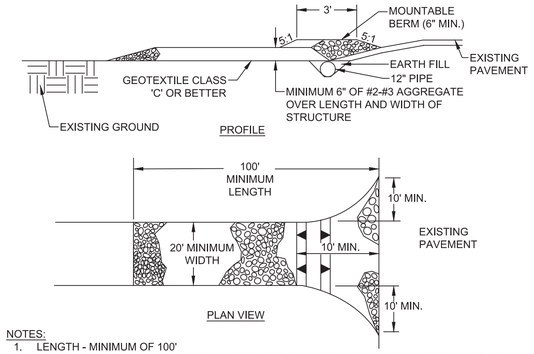
SHEET NO. **C2.7**

10
20



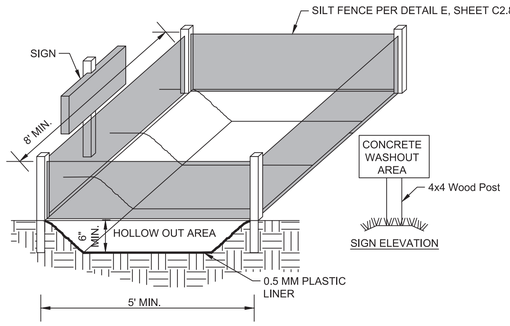
NOTES:
1. THE PUMPING OR DIRECT DISCHARGE OF SEDIMENT-LADEN (MUDDY) WATER TO THE CITY'S SEWER SYSTEM OR A RECEIVING STREAM IS A VIOLATION OF OHIO EPA AND CITY OF COLUMBUS REGULATIONS.
2. ALL INLETS RECEIVING FLOW FROM RUNOFF, PUMPING ACTIVITIES, OR OTHER DIRECT DISCHARGES SHALL BE FITTED WITH AN INLET PROTECTION DEVICE THAT IS PROPERLY SIZED AND SECURED TO REDUCE THE DISCHARGE OF SEDIMENT INTO THE STORM SEWER AND RECEIVING STREAM. INLET PROTECTION IS REQUIRED ON ALL INLETS RECEIVING DISCHARGE REGARDLESS OF WHETHER OR NOT THE INLET IS TRIBUTARY TO ANY DOWNSTREAM EROSION AND SEDIMENT CONTROLS.
3. DISCHARGE HOSES USED DURING PUMPING ACTIVITIES SHALL BE FITTED WITH SEDIMENT BAGS THAT ARE PROPERLY SIZED PER MANUFACTURER'S RECOMMENDATIONS REGARDLESS OF WHAT OTHER SEDIMENT CONTROLS ARE IN PLACE FURTHER DOWNSTREAM. SEDIMENT BAGS MUST BE PROPERLY SECURED TO THE DISCHARGE HOSE AND PLACED OVER VEGETATED AREAS, WHERE FEASIBLE, DURING DISCHARGE. SEE DETAIL ABOVE OF A TYPICAL SEDIMENT BAG INSTALLATION.

A DETAIL
DEWATERING BAG N.T.S.



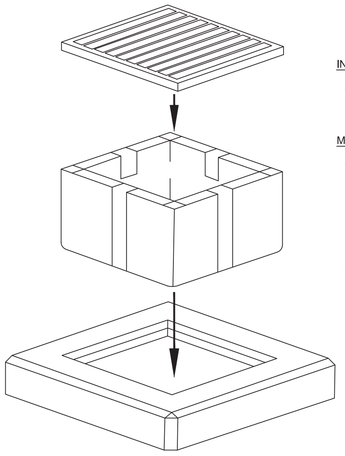
NOTES:
1. LENGTH - MINIMUM OF 100'
2. WIDTH - 20' MINIMUM, SHOULD BE FLARED AT THE EXISTING ROAD TO PROVIDE A TURNING RADIUS.
3. GEOTEXTILE FABRIC (FILTER CLOTH) SHALL BE PLACED OVER THE EXISTING GROUND PRIOR TO PLACING STONE.
4. STONE - CRUSHED AGGREGATE (#2 TO #3) OR RECLAIMED OR RECYCLED CONCRETE EQUIVALENT SHALL BE PLACED AT LEAST 6" DEEP OVER THE LENGTH AND WIDTH OF THE ENTRANCE.
5. SURFACE WATER - ALL SURFACE WATER FLOWING TO OR DIVERTED TOWARD CONSTRUCTION ENTRANCES SHALL BE PIPED THROUGH THE ENTRANCE, MAINTAINING POSITIVE DRAINAGE. PIPE INSTALLED THROUGH THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE PROTECTED WITH A MOUNTABLE BERM WITH 5:1 SLOPES AND A MINIMUM OF 6" OF STONE OVER THE PIPE.
6. LOCATION - A STABILIZED CONSTRUCTION ENTRANCE SHALL BE LOCATED AT EVERY POINT WHERE CONSTRUCTION TRAFFIC ENTERS OR LEAVES A CONSTRUCTION SITE. VEHICLES LEAVING THE SITE MUST TRAVEL OVER THE ENTIRE LENGTH OF THE STABILIZED CONSTRUCTION ENTRANCE.
7. 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.
8. WASHING - WHEELS SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAYS. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH STONE AND WHICH DRAINS INTO AN APPROVED SEDIMENT TRAPPING DEVICE.
9. PERIODIC INSPECTION AND NEEDED MAINTENANCE SHALL BE PROVIDED AFTER EACH RAIN.

B DETAIL
STABILIZED CONSTRUCTION ENTRANCE N.T.S.



NOTES:
1. CONCRETE TRUCKS SHALL UTILIZE AREAS TO WASHOUT TRUCKS.
2. ACCUMULATED CONCRETE SHALL BE REMOVED FROM THE SITE AND DISPOSED PROPERLY.
3. PLACE PLASTIC LINER OVER THE ENTIRE HOLLOW OUT AREA PRIOR TO USE.
4. PROVIDE ITEMS NOTED ABOVE INCLUDING REMOVAL OF CONCRETE WASHOUT UPON COMPLETION OF THE PROJECT AS NOTED IN THE BID PRICE FOR THE PROJECT.
5. FILL HOLLOW AREA TO A DEPTH OF 4 TO 6 INCHES WITH CMSC ITEM 703 AGGREGATE, SIZE #57, #2, OR #4.
6. USE OF ROLL AWAY OR OTHER PORTABLE CONTAINERS IS AN ACCEPTABLE ALTERNATIVE (AND HIGHLY ENCOURAGED) PROVIDED THEY ARE USED IN ACCORDANCE WITH NPDES GUIDELINES ON CONCRETE WASHOUT.

C DETAIL
CONCRETE TRUCK WASHOUT AREA N.T.S.



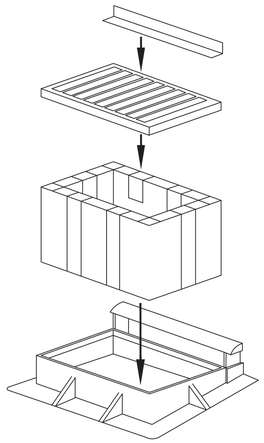
INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.

MAINTENANCE:
1. REMOVE GRATE.
2. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG
   C) VAC-UNIT
3. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
4. REINSTALL BAG.
5. REINSTALL GRATE.

TO BE USED ON STRUCTURES:

EXISTING:

PROPOSED:



INSTALLATION:
1. REMOVE GRATE.
2. INSTALL BAG (RESTS ON LIP OF CASTING).
3. REINSTALL GRATE.
4. INSTALL BONNET GUARD WITH TABS BETWEEN GRATE & BONNET CASTING

MAINTENANCE:
1. REMOVE THE BONNET GUARD.
2. REMOVE GRATE.
3. BAG CAN BE CLEANED SEVERAL WAYS:
   A) PICK UP BAG AND DUMP IT.
   B) SHOVELING DEBRIS OUT OF BAG.
   C) VAC-UNIT
4. SHAKE LOOSE DEBRIS OUT OF BAG OR RINSE WITH WATER.
5. REINSTALL BAG.
6. REINSTALL GRATE.
7. REINSTALL BONNET GUARD.

TO BE USED ON STRUCTURES:

EXISTING:

PROPOSED:

D DETAIL
INLET FILTER (BELOW GRATE INLET PROTECTION) N.T.S.

NOTES:

GENERAL
1. CONSTRUCT SILT FENCE BEFORE UPSLOPE DISTURBANCE BEGINS.
2. BRING ENDS OF SILT FENCE UPSLOPE SLIGHTLY SO THAT PONDING WATER WILL BE PREVENTED FROM FLOWING AROUND ENDS.
3. WHEN POSSIBLE PRESERVE VEGETATION 5 FEET UP UPSLOPE OF THE SILT FENCE. IF REMOVED, REESTABLISH WITHIN 7 DAYS FROM INSTALLATION OF FENCE.
4. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.
5. 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 OF A 6 INCH OVERLAP, AND SECURELY SEALED.
6. 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 16 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
7. THE TRENCH SHALL BE BACKFILLED AND SOIL COMPACTED OVER THE FILTER FABRIC.
8. SILT FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
9. THE USE OF STRAW WATTLES HAS PROVEN TO BE A VERSATILE AND EFFECTIVE ESC BMP, ESPECIALLY IN RESIDENTIAL SETTINGS. STRAW WATTLES MAY BE SUBSTITUTED FOR SILT FENCE.
10. THE USE OF COMPOST FILTER SOCKS AND COMPOST BLANKETS ARE GAINING WIDER ACCEPTANCE NATIONWIDE. THEY ARE NOW APPROVED FOR USE ON ALL COLUMBUS SWP3 PLANS AND CONSTRUCTION SITES.
11. STRAW WATTLES AND COMPOST ROLLS TO BE A MINIMUM OF 12" IN DIAMETER.

MAINTENANCE
1. SILT FENCES AND FILTER 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.
2. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.
3. ANY SEDIMENT DEPOSITS REMAINING AFTER THE SILT FENCE OR FILTER BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

E DETAIL
SILT FENCE N.T.S.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: JDB
DESIGNED BY: JDB
CHECKED BY: CMF
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

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Ohio Department of Natural Resources

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1575 US-68, XENIA, OHIO 45385

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APPROVED BY:	XX	DRAWING DATE:	06.16.2022

EROSION & SEDIMENT CONTROL DETAILS

SHEET NO. **C2.8**

EROSION AND SEDIMENT CONTROL NARRATIVE

EROSION AND SEDIMENT CONTROL NARRATIVE:

PLAN DESIGNER: KORDA/NEMETH ENGINEERING INC. 1650 WATERMARK DRIVE, SUITE 200 COLUMBUS, OHIO 43215
PHONE: (614) 487-1650 FAX: (614) 487-8981

OWNER: NAME: OHIO DEPARTMENT OF NATURAL RESOURCES
ADDRESS: 2045 MORSE RD.
CONTACT: JEREMY WENNER
PHONE: 614-265-6948
EMAIL: JEREMY.WENNER@DNR.OHIO.GOV

NOI PERMIT: 1GC08638*AG

EXISTING SITE CONDITIONS: THE SITE CONSISTS OF A MOSTLY DEVELOPED AREA THAT INCLUDES AN EXISTING TWO STORY MOTEL OFFICE, ONE STORY BRICK MOTEL, AN AUTO SHOP AND GARAGE, PARKING LOTS, SIDEWALKS, AND MONUMENTS.

PROJECT DESCRIPTION: THE PROJECT INCLUDES A NEW TWO STORY INTERPRETIVE CENTER WITH A PARTIAL BASEMENT, AROUND THE SITE WILL BE ASPHALT PARKING AND CIRCULATION DRIVES.

DISTURBED AREA: 1.20 ACRES

SITE DRAINS TO: SITE GENERALLY DRAINS TO A STORM SYSTEM WHICH OUTLETS TO THE OLDTOWN CREEK. THIS EVENTUALLY DISCHARGES TO THE LITTLE MIAMI RIVER.

SITE BMPS: LOCATIONS OF SITE BMPS, INCLUDING DUMPSTERS, VEHICLE FUELING AREAS, CONCRETE TRUCK WASH, MATERIAL STORAGE, AND TOPSOIL STOCKPILES SHALL BE DETERMINED BY CONTRACTOR. IF FINAL LOCATION OF BMPS DIFFER FROM THE LOCATIONS SHOWN, CONTRACTOR SHALL MODIFY SWPPP AND INFORM OHIO EPA OF NEW LOCATION OF BMPS. NO POST-CONSTRUCTION BMPS WILL BE NECESSARY.

ADJACENT AREAS: THE SITE IS BOUNDED BY EXISTING RESIDENCES TO THE NORTH AND SOUTH, US ROUTE 68 TO THE EAST, AND FARMLAND TO THE WEST.

SOILS: ACCORDING TO SOIL SURVEY RECORDS, THE SOIL TYPES ON THE SITE ARE ELDEAN SILT LOAM WHICH IS HYDROLOGIC SOIL GROUP B AND WEA SILT LOAM WHICH IS HYDROLOGIC SOIL GROUP B.

EROSION AND SEDIMENT CONTROL MEASURES: PROVIDE SILT FENCE AT CRITICAL AREAS AS SHOWN ON SHEET C2.7. ANY NEW OR EXISTING STORM INLETS IMPACTED BY THE NEW CONSTRUCTION ACTIVITY WILL NEED THE APPROPRIATE INLET PROTECTION FOR SEDIMENT CONTROL. PROVIDE INLET PROTECTION AT EXISTING AND PROPOSED DRAINAGE STRUCTURES. ANY OFFSITE BORROW OR SPOIL AREAS SHALL BE SUBJECT TO THE REQUIREMENTS SET FORTH BY THE OHIO EPA. ALL EROSION AND SEDIMENT CONTROL MEASURES FOR OFFSITE AREAS NOT COVERED BY A SEPERATE NOI OR SWP3 SHALL BE COORDINATED WITH THE OHIO EPA. TRENCH GROUNDWATER CONTAINING SEDIMENT MUST BE EFFECTIVELY TREATED PRIOR TO DISCHARGE INTO THE STORM SEWER SYSTEM. USE MEANS NECESSARY TO CONTROL DUST ONSITE AND PREVENT TRACKING SOIL OFFSITE.

JURISDICTION: EROSION AND SEDIMENT CONTROL PRACTICES ARE SUBJECT TO FIELD MODIFICATION AT THE DISCRETION OF THE CITY OF COLUMBUS AND/OR THE OHIO EPA.

COEFFICIENTS: PRE-DEVELOPED CURVE NUMBER = 83
POST-DEVELOPED CURVE NUMBER = 80
EXISTING IMPERVIOUS AREA = 0.70 ACRES
PROPOSED IMPERVIOUS AREA = 0.70 ACRES

CONSTRUCTION SEQUENCE

UNLESS NOTED OTHERWISE, THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ALL EROSION AND SEDIMENT CONTROL MEASURES REQUIRED THROUGHOUT THE DURATION OF THE PROJECT.

1. UTILIZE EXISTING PAVEMENT AS STABILIZED CONSTRUCTION ENTRANCE.
2. CONSTRUCT TEMPORARY SEDIMENT CONTROLS, PERIMETER EROSION CONTROL MEASURES. MEASURES SHALL BE IMPLEMENTED AS THE FIRST STEP OF CONSTRUCTION.
3. DEMOLISH.
4. BACKFILL.
5. ROUGH GRADING. ADD ADDITIONAL SILT FENCE IF NECESSARY.
6. COMPLETE FINE GRADING AND PAVEMENT REPLACEMENT.
8. ONCE FINAL SEEDING HAS BEEN ESTABLISHED, CLEAN SEDIMENT FROM UNDERDRAINS AND STRUCTURES.
9. REMOVE TEMPORARY EROSION CONTROL MEASURES.

MAINTENANCE/INSPECTION PROCEDURES

1. CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EACH WEEK AND WITHIN 24-HOURS FOLLOWING ANY STORM EVENT OF 0.5 INCHES OR GREATER.
2. MEASURES SHALL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
3. TEMPORARY AND PERMANENT SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND HEALTHY GROWTH.
4. A MAINTENANCE INSPECTION REPORT SHALL BE MADE AFTER EACH INSPECTION, AND A WRITTEN LOG MUST BE KEPT. THIS LOG SHALL INDICATE THE DATE OF THE INSPECTION, NAME OF THE INSPECTOR, WEATHER CONDITIONS, OBSERVATIONS, ANY CORRECTIVE ACTIONS TAKEN, AND BE SIGNED IN ACCORDANCE WITH THE CONDITIONS OF THE NPDES PERMIT. ANY CONTROL MEASURE MUST BE REPAIRED/REPLACED WITHIN THREE DAYS OF INSPECTION.
5. PERSONNEL SELECTED FOR INSPECTION AND MAINTENANCE RESPONSIBILITIES SHALL BE TRAINED IN INSPECTION AND MAINTENANCE PRACTICES NECESSARY FOR KEEPING THE EROSION AND SEDIMENT CONTROLS USED ONSITE IN GOOD WORKING ORDER. A WRITTEN DOCUMENT CONTAINING THE SIGNATURES OF CONTRACTORS AND SUBCONTRACTORS INVOLVED IN THE IMPLEMENTATION OF EROSION AND SEDIMENT CONTROL MEASURES MUST BE MAINTAINED AS PROOF ACKNOWLEDGING THAT THEY REVIEWED AND UNDERSTAND THE CONDITIONS AND RESPONSIBILITIES OF THE PLAN. THE DOCUMENT SHALL BE CREATED BY THE CONTRACTOR SIGNED PRIOR TO THE START OF CONSTRUCTION.

DISPOSAL OF SOLID/SANITARY/TOXIC WASTES

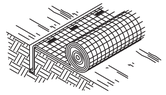
1. SOLID, SANITARY AND TOXIC WASTES MUST BE DISPOSED OF IN A PROPER MANNER IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
2. IT IS PROHIBITED TO BURN, BURY OR POUR OUT ONTO THE GROUND OR INTO A STORM WATER CONVEYANCE ANY SOLVENTS, PAINTS, STAINS, GASOLINE, DIESEL FUEL, USED MOTOR OIL, HYDRAULIC FLUID, ANTIFREEZE, CEMENT CURING COMPOUNDS AND OTHER SUCH SOLID AND HAZARDOUS WASTES.
3. ANY RINSE WATERS OF SUCH MATERIAL ARE ALSO PROHIBITED FROM BEING PLACED WHERE THEY MAY ENTER DRAINAGEWAYS.
4. WASH OUT OF CEMENT TRUCKS SHOULD OCCUR IN A DIKED, DESIGNATED AREA, AWAY FROM ANY CONVEYANCE CHANNEL.
5. COORDINATE WASH OUT AREA WITH CONSTRUCTION MANAGER.

STABILIZATION PROCEDURES

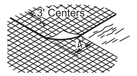
CONTRACTOR SHALL BE RESPONSIBLE TO KEEP A RECORD OF DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN EARTH DISTURBANCE HAS TEMPORARILY OR PERMANENTLY CEASED ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES HAVE BEEN INITIATED.

DEWATERING

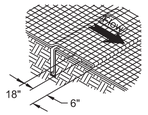
DISCHARGES FROM DEWATERING ACTIVITIES, INCLUDING DISCHARGES FROM DEWATERING OF TRENCHES AND EXCAVATIONS ARE PROHIBITED UNLESS MANAGED BY APPROPRIATE CONTROLS.



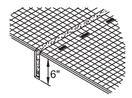
Anchor Slot: Bury the up-channel end of the net in a 6" deep trench. Tamp the soil firmly. Staple at 12" intervals across the net.



Overlap: Overlap edges of the strips at least 4". Staple every 3 feet down the center of the strip.

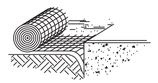


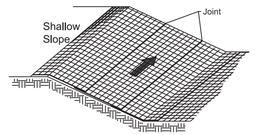
Joining Strips: Insert the new roll of net in a trench, as with the Anchor Slot. Overlap the up-channel end of the previous roll 18" and turn the end under 6". Staple the end of the the previous roll just below the anchor slot and at the end at 12" intervals.



Check Slots: On erodible soils or steep slopes, check slots should be made every 15 feet. Insert a fold of the net into a 6" trench and tamp firmly. Staple at 12" intervals across the net. Lay the net smoothly on the surface of the soil- do not stretch the net, and do not allow wrinkles.

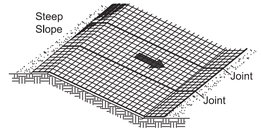
Anchoring Ends At Structures: Place the end of net in a 6" slot on the structure. Fill the trench and tamp firmly. Roll the net up the channel. Place staples at 12" intervals along the anchor end of the net.





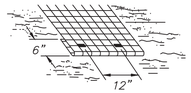
On shallow slopes (≤5:1), strips of netting may be applied across the slope.

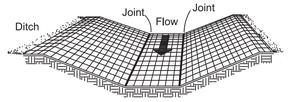
Where there is a berm at the top of slope, bring the netting over the berm and anchor it behind the berm.



On steep slopes (>5:1), apply strips of netting parallel to the direction of flow and anchor securely.

Bring netting down to a level area before terminating the installation. Turn the end under 6" and staple at 12" intervals.





In ditches, apply netting parallel to the direction of flow. Use check slots every 15 feet. Do not join strips in the center of the ditch.

NOTE:
1. MATTING SHALL BE FASTENED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.

A DETAIL

INSTALLATION AND ORIENTATION OF NETTING AND MATTING — **N.T.S.**

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

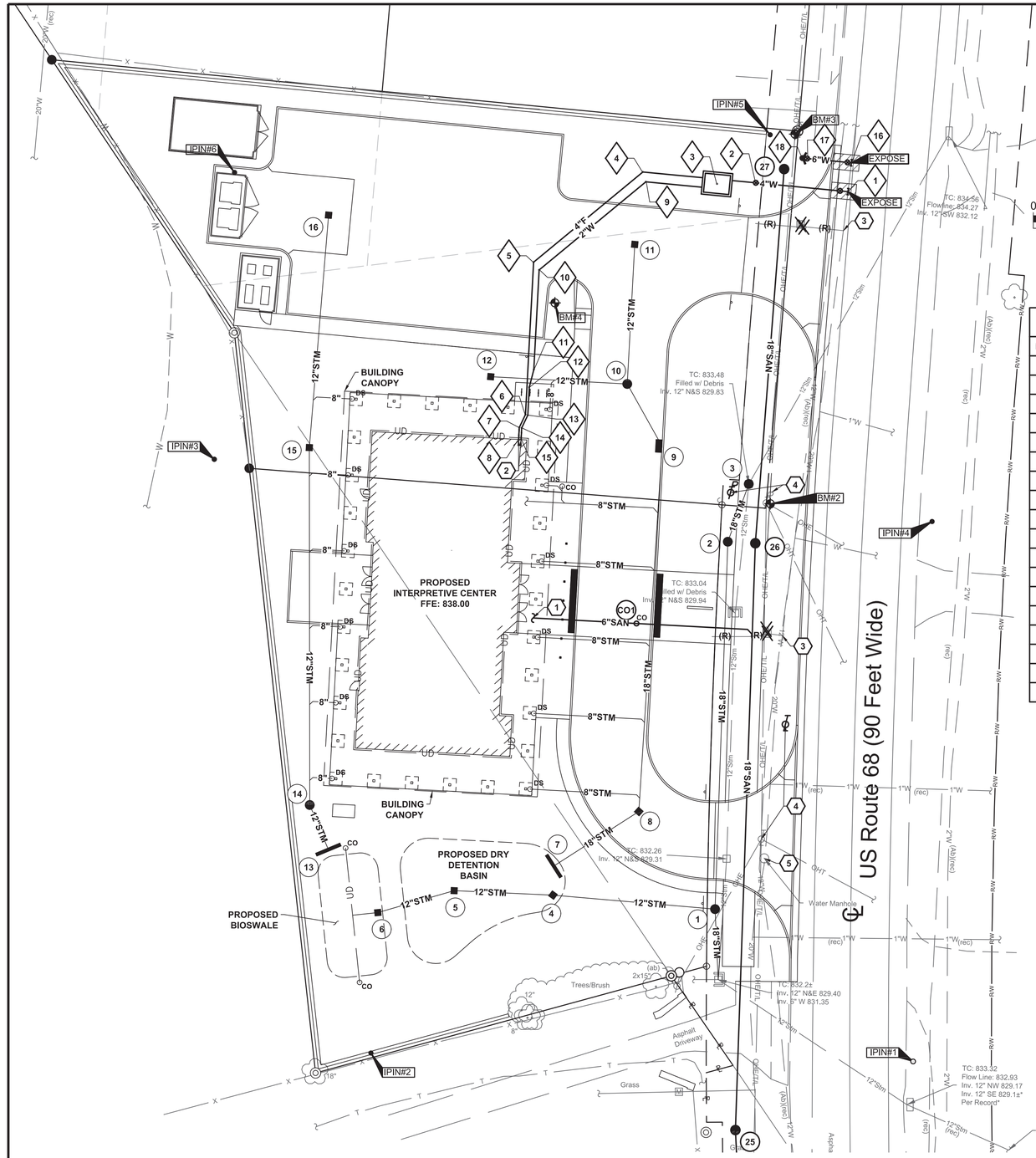
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

EROSION & SEDIMENT CONTROL DETAILS

SHEET NO. **C2.9**

13
20



UTILITY LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- E — UNDERGROUND ELECTRIC LINE
- T — UNDERGROUND TELEPHONE LINE
- L — UNDERGROUND LIGHTING CIRCUIT
- W — WATER LINE
- STM — STORM SEWER
- UD — UNDERDRAIN
- SAN — SANITARY SEWER
- CUT AND PLUG EXISTING UTILITY
- (AB) — ABANDON EXISTING UTILITY
- (R) — REMOVE EXISTING UTILITY
- GATE VALVE & CURB BOX
- FIRE DEPARTMENT CONNECTION
- CLEAN OUT
- MANHOLE
- REMOVE EX. STRUCTURE
- 1 (101) — STRUCTURE NUMBER
- PROPOSED POWER POLE
- PROPOSED TELEPHONE/LIGHT POLE
- REMOVE AND REPLACE PAVEMENT IN KIND

WATER SERVICE COORDINATES

NO.	TYPE	NORTHING	EASTING	NORTHING AS-BUILT	EASTING AS-BUILT
1	20" X 4" TAPPING SLEEVE & VALVE	633061.66	1564522.69		
2	4" VALVE	633064.42	1564493.67		
3	METER PIT PER DETAIL F/C3.3	633064.10	1564481.42		
4	4" 45° HORZ. BEND	633067.84	1564458.00		
5	4" 45° HORZ. BEND	633039.38	1564423.51		
6	4" 22.5° HORZ. BEND	632991.27	1564420.94		
7	4" 22.5° HORZ. BEND	632987.20	1564418.99		
8	WATER SERVICE TERMINATION PER DETAIL A/C3.3	632983.42	1564418.79		
9	2" 45° HORZ. BEND	633064.74	1564458.95		
10	2" 45° HORZ. BEND	633036.93	1564425.25		
11	2" 11.25° HORZ. BEND	633005.48	1564423.57		
12	2" 11.25° HORZ. BEND	632999.89	1564422.15		
13	2" 22.5° HORZ. BEND	632991.08	1564421.68		
14	2" 22.5° HORZ. BEND	632987.04	1564419.74		
15	WATER SERVICE TERMINATION PER DETAIL A/C3.3	632983.38	1564419.55		
16	20" X 6" TAPPING SLEEVE & VALVE	633070.76	1564523.84		
17	6" VALVE	633072.09	1564509.90		
18	FIRE HYDRANT PER CITY OF XENIA STD. DWG. STD-103	633072.24	1564508.38		

SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
CO1	837.20	632925.31	1564455.99		

GENERAL NOTES:

1. OBTAIN ALL PERMITS AND PAY ALL FEES NECESSARY TO COMPLETE THE WORK SHOWN. CONTRACTOR SHALL INCLUDE THE FOLLOWING IN HIS BID FOR WATER LINE AND SANITARY SEWER FEES UNDER THE CORRESPONDING ALLOWANCE LISTED IN SPECIFICATION SECTION 01 21 00 ALLOWANCES:
   - -DOMESTIC WATER CONNECTION CHARGE: $9,322.00
   - -SEWER CONNECTION CHARGE: $11,031.00
   - -2" WATER METER CHARGE: $950.00
   - -WATER CONNECTION INSPECTION FEE: $35
   - -SEWER CONNECTION INSPECTION FEE: $35
2. DIMENSIONS AND COORDINATES ARE FROM FACE OF CURB OR EXTERIOR FACE OF BUILDING, UNLESS OTHERWISE NOTED.
3. EXTEND UTILITIES TO WITHIN 5' OF FACE OF BUILDING, UNLESS OTHERWISE NOTED. COORDINATE EXACT LOCATION WITH PLUMBING CONTRACTOR. FINAL CONNECTION BY PLUMBING CONTRACTOR.
4. REFER TO SHEETS C2.1-C2.4 FOR STORM SEWER INFORMATION.
5. MAINTAIN MINIMUM 4'-6" COVER OVER ALL WATERLINES. REFER TO SHEET C3.2 FOR PROFILE.
6. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF ANY STORM OR SANITARY SEWER.
7. PROVIDE THRUST BLOCKS OR RESTRAINED MECHANICAL JOINT PIPE AT EACH VALVE, TEE, FITTING, OR CHANGE IN DIRECTION OF WATERLINE.
8. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
9. CONNECTION TO EXISTING WATER MAINS SHALL NOT BE PERFORMED UNTIL THE NEW LINES HAVE BEEN SANITIZED AND ALL TESTS HAVE BEEN COMPLETED AS SPECIFIED BY THE CITY OF XENIA AND THESE CONTRACT DOCUMENTS.
10. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED 10/26/2021. REFER TO SHEET TS1.
11. WHERE PLANS PROVIDE FOR A PROPOSED UTILITY TO BE CONNECTED TO, OR CROSS OVER, OR UNDER AN EXISTING UNDERGROUND UTILITY, THE CONTRACTOR SHALL LOCATE THE EXISTING PIPES OR UTILITIES, BOTH AS TO LINE AND GRADE BEFORE STARTING TO LAY THE PROPOSED UTILITY. THESE LOCATIONS ARE NOTED THUS: EXPOSE. IF IT IS DETERMINED THAT THE ELEVATION OF THE EXPOSED UTILITY DIFFERS FROM THE PLAN ELEVATION, RESULTS IN A CHANGE IN THE PLAN SEWER SLOPE, OR WILL INTERSECT AN EXISTING UTILITY AS SHOWN ON THE PLAN, THE ENGINEER SHALL BE NOTIFIED BEFORE STARTING CONSTRUCTION OF ANY PORTION OF THE PROPOSED UTILITY WHICH WILL BE AFFECTED BY THE VARIANCE IN THE EXISTING ELEVATIONS.
12. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.
13. ANY REQUIRED WATERLINE SHUT-DOWNS SHALL BE COORDINATED WITH THE OWNER AND/OR THE CITY.
14. PERFORM WORK IN ACCORDANCE WITH CITY OF XENIA MATERIALS AND CONSTRUCTION SPECIFICATIONS AND STANDARD CONSTRUCTION DRAWINGS. IN CASE OF DISCREPANCY BETWEEN CITY OF XENIA STANDARDS AND PROJECT SPECIFICATION, CITY OF XENIA STANDARDS SHALL GOVERN.

(X) CODED NOTES:

1. CAP AND MARK FOR FINAL CONNECTION BY PLUMBING CONTRACTOR.
2. WATER SERVICE TERMINATION PER DETAIL A/C3.2.
3. ABANDON EXISTING WATER TAP IN PLACE AND REMOVE EXISTING WATER SERVICE PIPING.
4. RELOCATE EXISTING UTILITY POLE TO LOCATION SHOWN. COORDINATE WITH UTILITY COMPANY.
5. ADJUST TO FINISHED GRADE.

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: JDB
DESIGNED BY: JDB
CHECKED BY: CMF
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

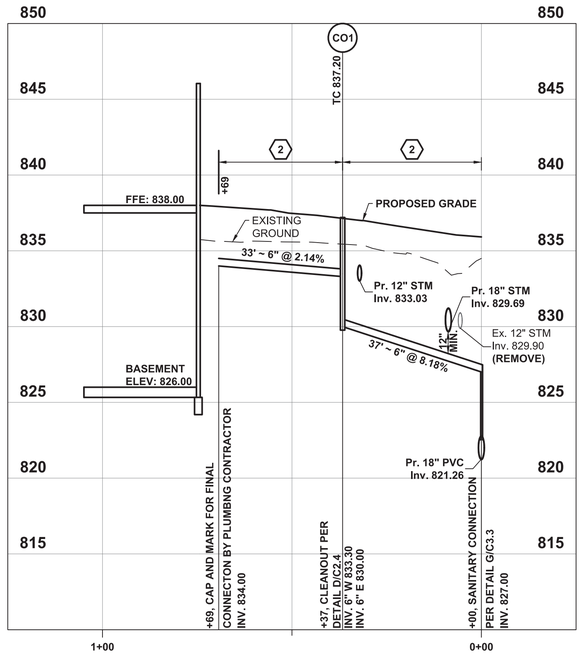
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

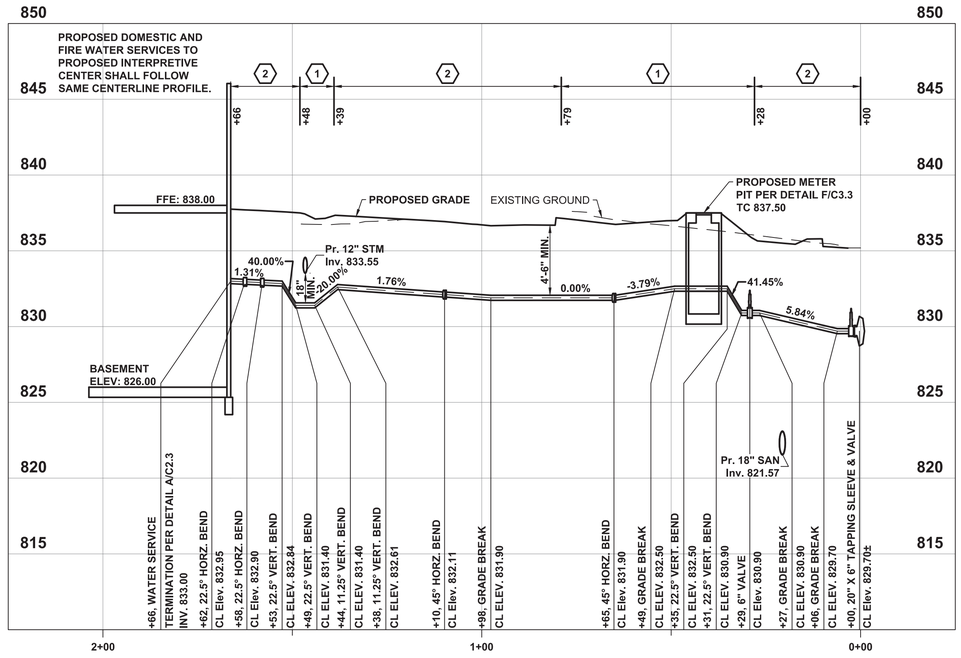
DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

UTILITY PLAN

SHEET NO. C3.1



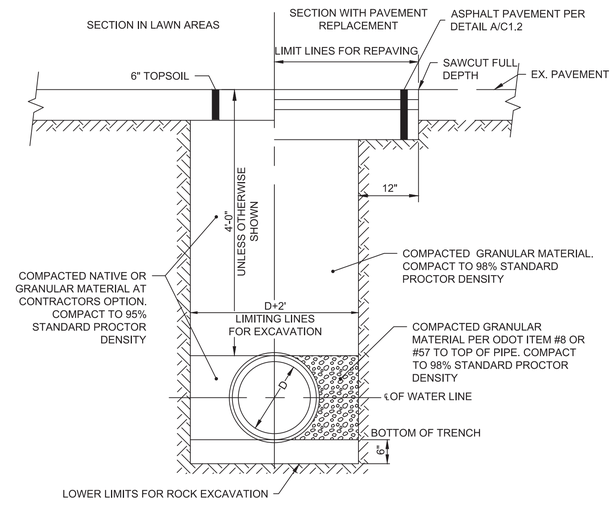
SANITARY SERVICE Profile
Scale: 1"=20' Horiz. 1"=5' Vert.



FIRE & DOMESTIC WATER SERVICE Profile
Scale: 1"=20' Horiz. 1"=5' Vert.

CODED NOTES:

1. BACKFILL WITH COMPACTED BACKFILL TYPE D PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.
2. BACKFILL WITH COMPACTED GRANULAR BACKFILL TYPE A OR J PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.



A DETAIL
TYPICAL WATER LINE TRENCH **N.T.S.**

REVISIONS:
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

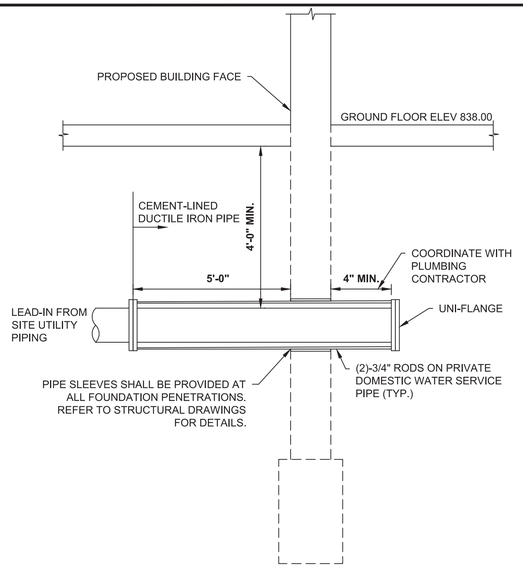
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JDB	JOB NUMBER:	DNR-210003
DRAWN BY:	JDB	SCALE:	AS NOTED
CHECKED BY:	CMF	PERMIT DATE:	02.25.2022
APPROVED BY:	XX	DRAWING DATE:	06.16.2022

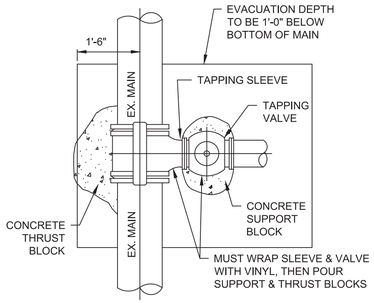
UTILITY PROFILES & DETAILS

SHEET NO. **C3.2**



NOTES:
1. ALL WORK WITHIN BUILDING SHALL BE PER PLUMBING SPECIFICATIONS.
2. COORDINATE FOOTING LOCATIONS AND SLEEVES WITH FOUNDATION CONSTRUCTION.
3. COORDINATE FINAL LOCATIONS AND ELEVATIONS WITH PLUMBING CONTRACTOR.
4. PROVIDE CEMENT-LINED DUCTILE IRON PIPE BEGINNING 5'-0" OUTSIDE OF THE BUILDING AND CONTINUING THROUGH THE FLOOR PENETRATION. CAP WATER SERVICE ABOVE GROUND FOR FUTURE CONNECTION BY THE PLUMBING CONTRACTOR.

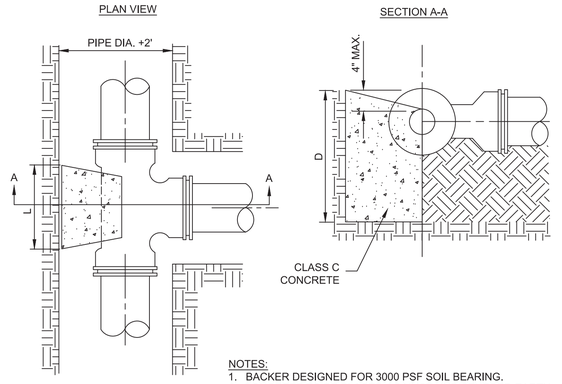
A DETAIL
WATER SERVICE TERMINATION (BASEMENT) N.T.S.



B DETAIL
MAIN CONNECTION DETAIL N.T.S.

RUN	BRANCH																											
	3"			4"			6"			8"			12"			16"			20"			24"					
	L"	D"	VC.F.	L"	D"	VC.F.	L"	D"	VC.F	L"	D"	VC.F.	L"	D"	VC.F.	L"	D"	VC.F.	L"	D"	VC.F.	L"	D"	VC.F.			
3"	12	5	0.5																									
4"	10	6	0.5	11	8	0.8																						
6"	9	7	0.5	11	8	0.8	18	12	1.9																			
8"	8	8	0.5	10	9	0.7	18	12	1.9	23	16	3.5																
12"	6	12	0.6	8	12	0.8	18	12	1.9	23	16	3.5	38	22	8.7													
16"	6	16	0.8	6	16	0.8	14	16	2.0	20	18	3.3	36	23	8.7	49	30	13.6										
20"							11	20	1.9	18	20	3.5	35	24	8.7	46	32	13.6	60	38	26.5							
24"							9	24	1.9	15	24	3.3	30	28	8.7	42	36	14.0	54	42	26.3	68	48	45.4				

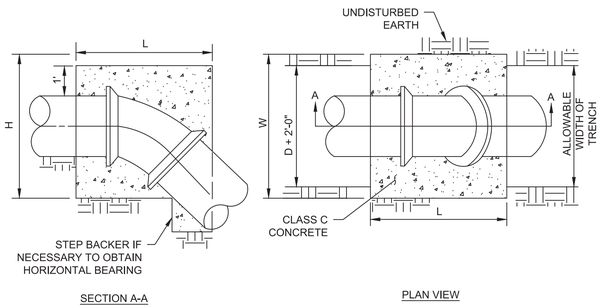
STEEL WILL BE USED AS REQUIRED BY THE ENGINEER.



NOTES:
1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

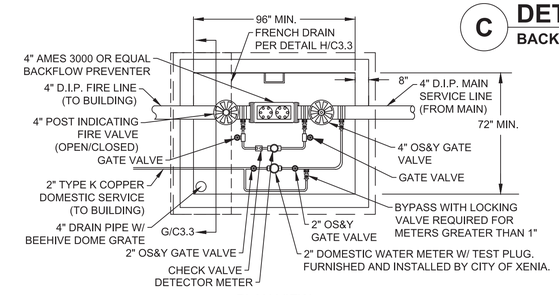
C DETAIL
BACKING FOR TEES N.T.S.

SIZE OF PIPE	DEGREE OF BEND															
	11-1/4°				22-1/2°				45°				90°			
	L"	W"	H"	VOL.	L"	W"	H"	VOL.	L"	W"	H"	VOL.	L"	W"	H"	VOL.
3"	12	18	12	1.5	13	25	16	3.0	18	30	19	5.9	25	30	24	10.4
4"	12	24	16	2.6	16	30	18	5.0	22	36	24	11.0	27	48	25	18.7
6"	12	48	18	6.0	15	43	36	13.4	30	55	24	22.9	37	54	36	41.6
8"	12	63	24	10.5	18	57	34	20.2	36	57	33	39.2	47	60	46	75.0
12"	20	54	36	22.6	37	62	37	49.0	48	62	51	87.9	66	66	66	166.4
16"	31	65	38	44.3	60	65	39	88.1	65	65	65	159.2				

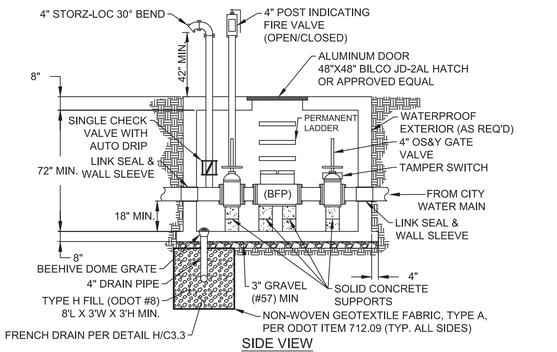


NOTES:
1. VOLUMES GIVEN IN CUBIC FEET.
2. BACKER TO BE CENTERED HORIZONTALLY ON BEND.
3. STEEL WILL BE USED AS REQUIRED BY THE ENGINEER.

E DETAIL
BACKING FOR VERTICAL BENDS [LOWER BENDS ONLY] N.T.S.



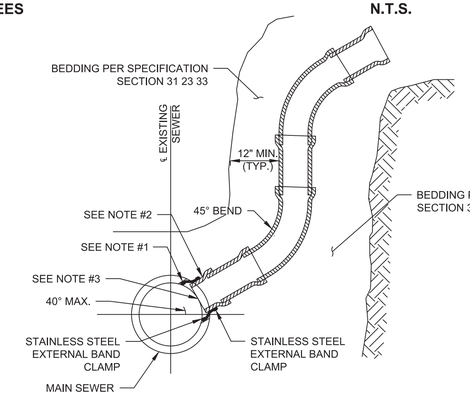
PLAN VIEW



SIDE VIEW

NOTES:
1. METER PIT PER CITY OF XENIA STANDARD DRAWING STD--109 MODIFIED AS SHOWN.
2. DOMESTIC WATER METER SHALL BE PROVIDED AND INSTALLED BY THE CITY OF XENIA. CONTRACTOR SHALL PROVIDE AND INSTALL ALL OTHER MATERIALS.

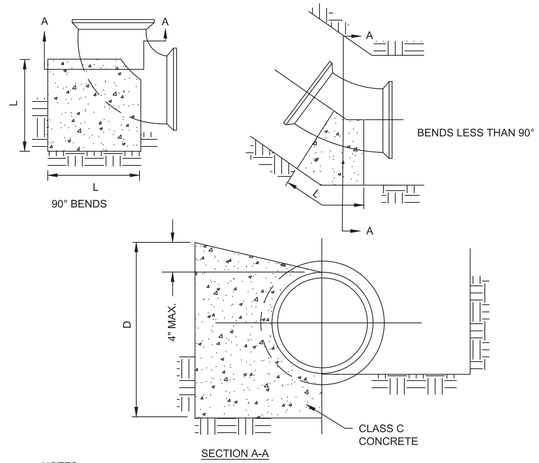
F DETAIL
METER PIT PER CITY OF XENIA STD-109 (MODIFIED) N.T.S.



NOTES:
1. THE INSERT HOLE DIAMETER IN THE MAIN SEWER SHALL BE CORED FOR THE DIAMETER REQUIRED FOR THE KOR-N-TEE (OR EQUAL) FLEXIBLE CONNECTOR.
2. BEGINNING OF BELL SECTION OF STUB PIPE TO BE FLUSH WITH END OF FLEXIBLE CONNECTOR.
3. STUB PIPE SHALL NOT EXTEND INTO MAIN SEWER AT ANY POINT.
4. VERTICAL RISER MAY LAY AGAINST UNDISTURBED SOIL.
5. PIPE MATERIALS PER SPECIFICATION SECTION 33 30 00.

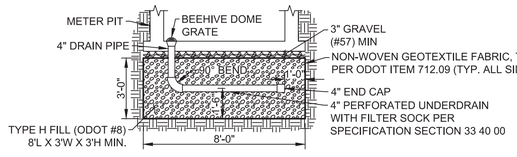
G DETAIL
CORED RISER N.T.S.

SIZE OF PIPE	DEGREE OF BEND															
	11-1/4°				22-1/2°				45°				90°			
	L"	D"	VC.F.		L"	D"	VC.F.		L"	D"	VC.F.		L"	D"	VC.F.	
3"	4	3	0.1		6	4	0.2		10	4	0.3		10	4	0.3	
4"	5	4	0.2		9	5	0.4		14	5	0.6		14	5	0.6	
6"	8	6	0.5		12	7	0.7		20	8	1.4		18	9	1.7	
8"	9	8	0.7		16	9	1.4		24	12	2.7		25	11	4.0	
12"	14	12	1.8		24	14	3.6		36	18	6.8		32	18	10.7	
16"	18	16	3.4		32	18	6.7		36	32	13.4		41	26	25.6	
STEEL WILL BE USED AS REQUIRED BY ENGINEER																



NOTES:
1. BACKER DESIGNED FOR 3000 PSF SOIL BEARING.
2. CONCRETE TO BE PLACED AGAINST UNDISTURBED EARTH.
3. PROVIDE CLEARANCE FOR REMOVAL OF BOLTS.

D DETAIL
BACKING FOR BENDS [HORIZONTAL & VERTICAL SAG] N.T.S.



H DETAIL
METER PIT FRENCH DRAIN N.T.S.

REVISIONS:
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	JDB
DESIGNED BY:	JDB
CHECKED BY:	CMF
PROJECT NUMBER:	2021-0003

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

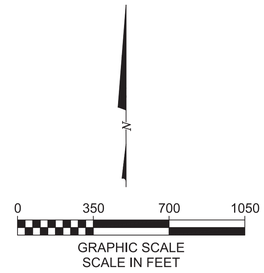
DESIGNED BY:	JDB
DRAWN BY:	JDB
CHECKED BY:	CMF
APPROVED BY:	XX

JOB NUMBER:	DNR-210003
SCALE:	AS NOTED
PERMIT DATE:	02.25.2022
DRAWING DATE:	06.16.2022

UTILITY DETAILS

SHEET NO. **C3.3**

15
20



LEGEND
PROPOSED

- SAN — SANITARY SEWER
- MANHOLE
- 31 — MANHOLE NUMBER
- 6 — EXISTING MANHOLE NUMBER
- TRIBUTARY AREA

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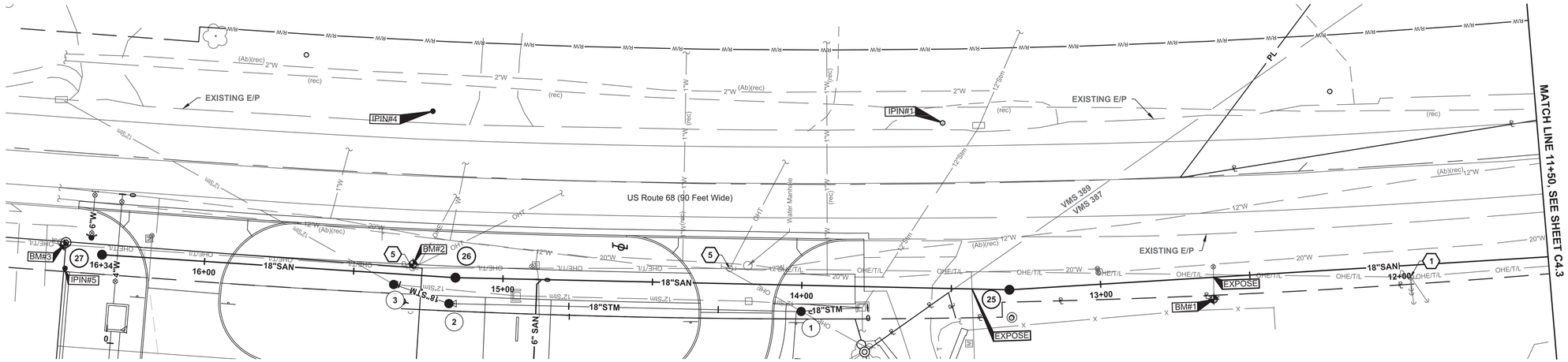
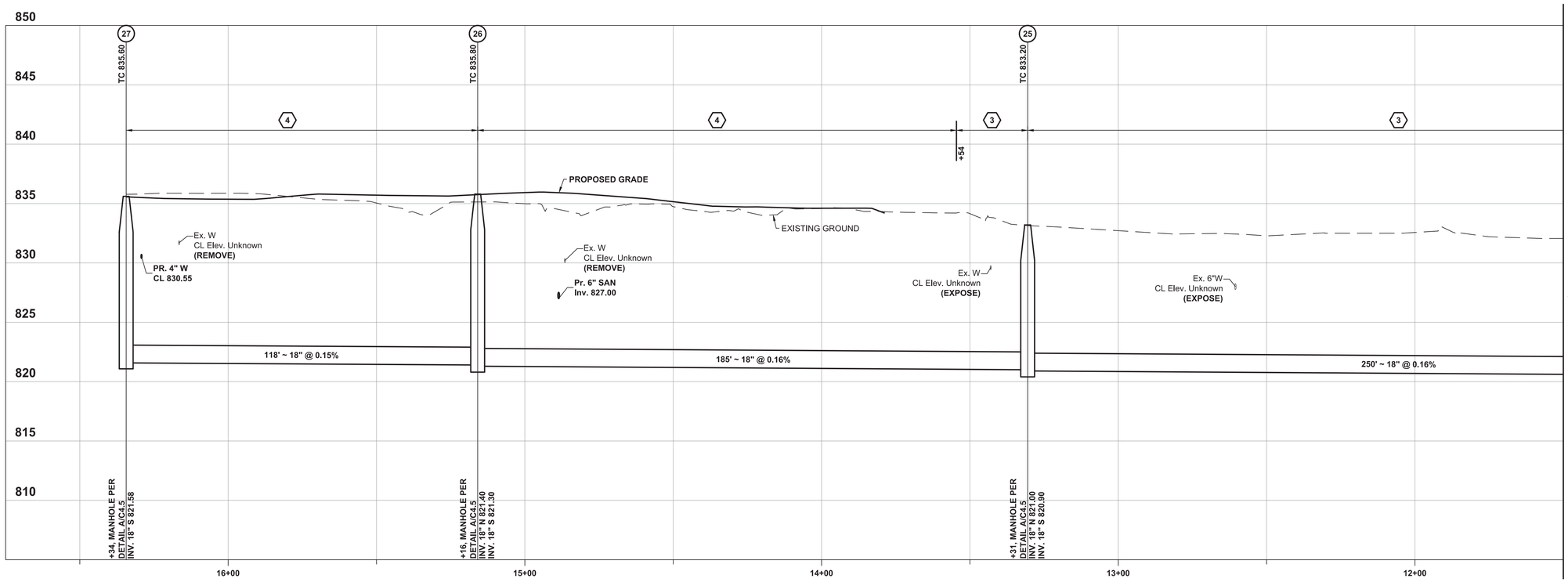
TRIBUTARY PLAN

SHEET NO. **C4.1**

16
20





UTILITY LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- SAN — SANITARY SEWER
- CUT AND PLUG EXISTING UTILITY
- (AB) — ABANDON EXISTING UTILITY
- (R) — REMOVE EXISTING UTILITY
- MANHOLE
- 1 / 101 — STRUCTURE NUMBER

GENERAL NOTES:

1. OBTAIN ALL PERMITS AND PAY ALL FEES NECESSARY TO COMPLETE THE WORK SHOWN.
2. MAINTAIN MINIMUM 18" VERTICAL CLEARANCE FROM THE OUTSIDE OF ANY WATERLINE PIPE TO THE OUTSIDE OF SANITARY SEWER.
3. ROOF DRAINS, FOUNDATION DRAINS, AND OTHER CLEAN WATER CONNECTIONS TO THE SANITARY SEWER ARE PROHIBITED.
4. ALL COORDINATES AND ELEVATIONS BASED ON SURVEY PERFORMED BY KORDA/NEMETH ENGINEERING DATED 10/26/2021. REFER TO SHEET TS1.
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6. SUPPORT AND PROTECT ALL UTILITIES EXPOSED DURING EXCAVATION AND TRENCHING.

(X) CODED NOTES:

1. SUPPORT EXISTING UTILITY POLE AS NECESSARY DURING INSTALLATION OF SANITARY SEWER. COORDINATE WITH POLE OWNER.
2. SUPPORT AND PROTECT EXISTING HEADWALL TO REMAIN.
3. BACKFILL WITH COMPACTED BACKFILL TYPE D PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.
4. BACKFILL WITH COMPACTED GRANULAR BACKFILL TYPE A OR J PER SPECIFICATION SECTION 31 00 00 AND 31 23 33.
5. UTILITY POLE TO BE RELOCATED.

GRAPHIC SCALE
SCALE IN FEET
0 20 40 60

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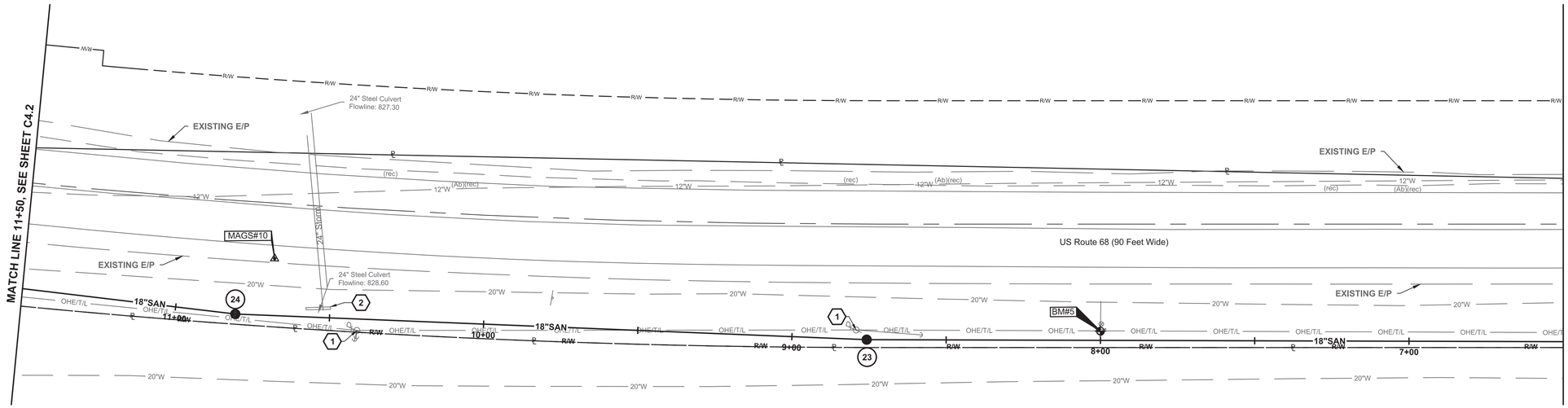
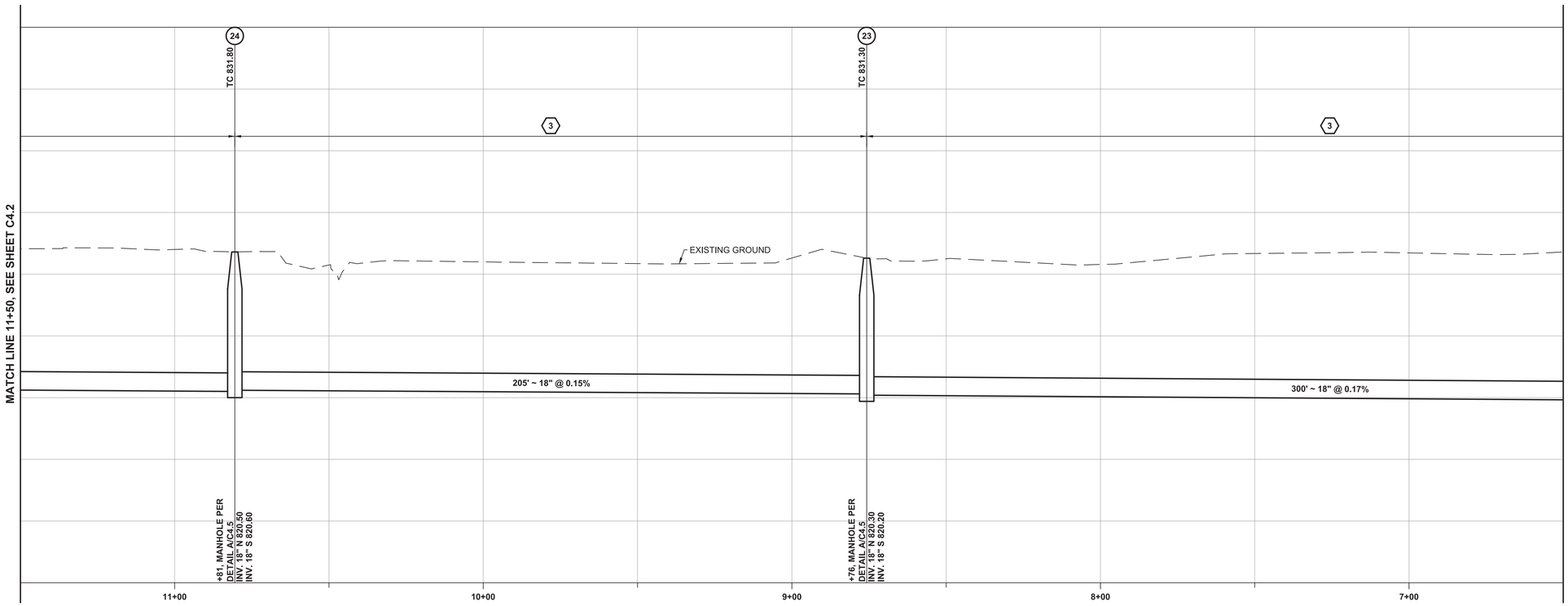
SANITARY PLAN & PROFILE

SHEET NO. C4.2





UTILITY LEGEND

EXISTING

REFER TO SHEET TS1

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- SAN — SANITARY SEWER
- CUT AND PLUG EXISTING UTILITY
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GRAPHIC SCALE
SCALE IN FEET

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06.16.2022 - CONFORMED SET

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ENGINEERING
Ohio Department of Natural Resources

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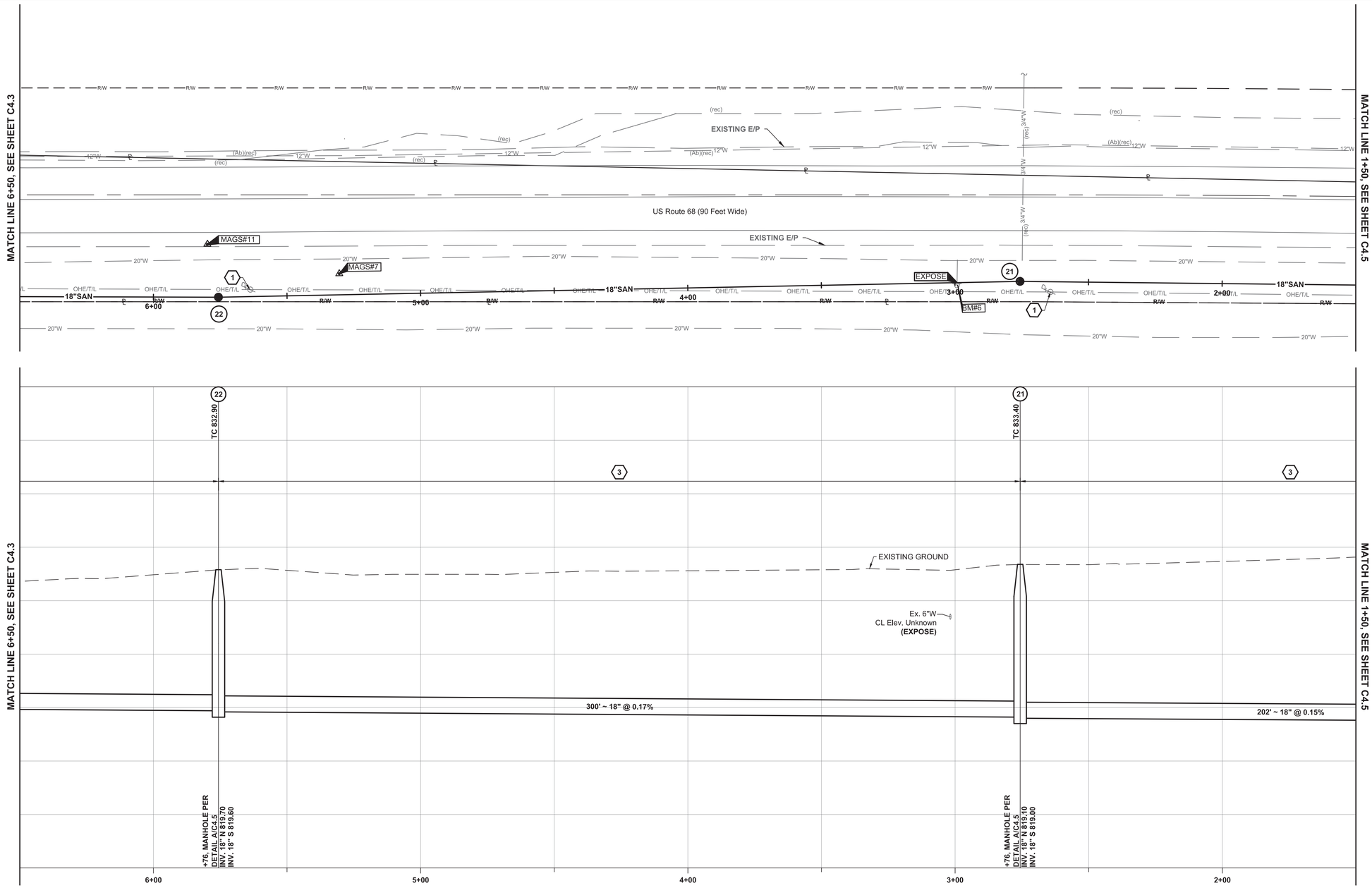
SANITARY PLAN & PROFILE

SHEET NO. **C4.3**

18
20



UTILITY LEGEND

EXISTING

REFER TO SHEET TS1

PROPOSED

- SAN — SANITARY SEWER
- CUT AND PLUG EXISTING UTILITY
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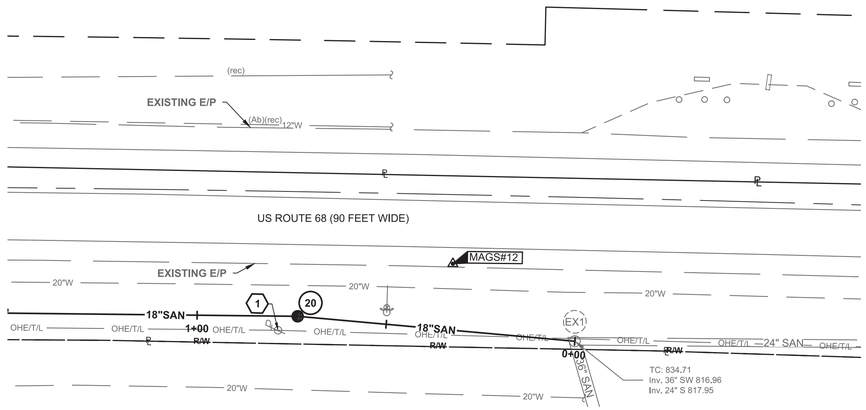
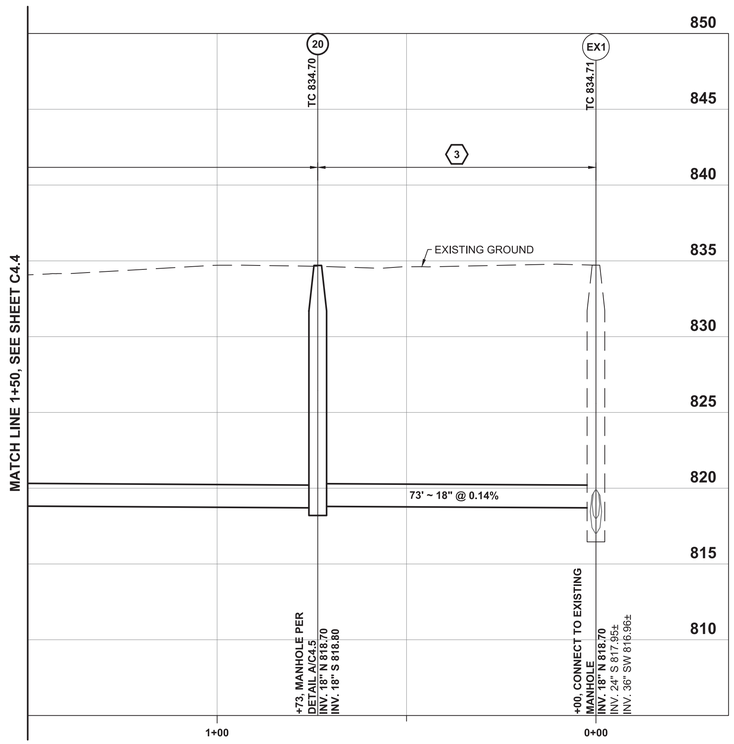
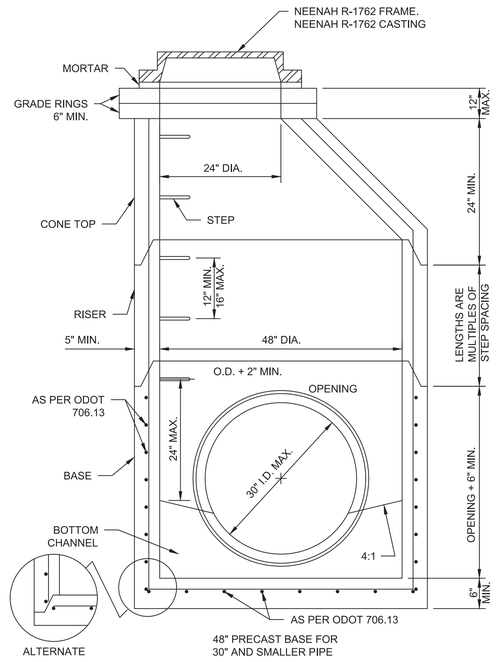
SANITARY PLAN & PROFILE

SHEET NO. C4.4







NOTE:
1. MANHOLE SHALL CONFORM TO ASTM C-478, O-RING JOINTS PER ASTM C-443.

A DETAIL
SANITARY MANHOLE N.T.S.

UTILITY LEGEND

EXISTING
REFER TO SHEET TS1

PROPOSED
- SAN — SANITARY SEWER
- CUT AND PLUG EXISTING UTILITY
- (AB) — ABANDON EXISTING UTILITY
- (R) — REMOVE EXISTING UTILITY
- MANHOLE
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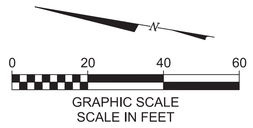
SANITARY SEWER STRUCTURE COORDINATES

Structure	TC	Northing	Easting	Northing As-Built	Easting As-Built
20	834.70	631522.05	1564662.22		
21	833.40	631721.76	1564630.62		
22	832.90	632016.52	1564574.73		
23	831.30	632312.54	1564525.47		
24	831.80	632515.67	1564499.50		
25	833.20	632765.38	1564487.21		
26	835.80	632950.65	1564493.50		
27	835.60	633068.76	1564502.60		
EX1	834.71	631448.83	1564667.94		



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SANITARY PLAN & PROFILE

SHEET NO. **C4.5**

20
20

STRUCTURAL NOTES:

GENERAL STRUCTURAL NOTES

GOVERNING CODE:
OHIO BUILDING CODE 2017

CLASSIFICATION OF BUILDING STRUCTURE:
CATEGORY III, TABLE 1604.5

DESIGN LOADS: MAIN BUILDING (SEE S0.2 FOR STORM SHELTER)

1. ROOF LOAD
   A. MINIMUM LIVE LOAD OR SNOW LOAD (Pf) = **20** PSF

2. SNOW LOAD
   A. GROUND SNOW LOAD, P_G = 20 PSF MODIFIED BY APPLICABLE DRIFT COEFFICIENTS
   B. FLAT ROOF SNOW LOAD, P_F = 20 PSF MODIFIED BY APPLICABLE BUILDING COEFFICIENTS
   C. SNOW LOAD IMPORTANCE FACTOR I = 1.10
   D. SNOW EXPOSURE FACTOR Ce = 1.0
   E. THERMAL FACTOR, Ct = 1.00

3. FLOOR LOAD:
   A. FIRST FLOOR LIVE LOAD = **100** PSF

4. WIND LOAD:
   A. MAIN WINDFORCE-RESISTING SYSTEM: 120 MPH PER ASCE 7 (3-SECOND GUST)
   B. WIND EXPOSURE C
   C. BASIC WIND VELOCITY PRESSURE, qh = 17.21 PSF
   D. INTERNAL GUST PRESSURE COEFFICIENT GCP = 0.18, ENCLOSED BUILDING

5. SEISMIC LOAD
   A. COUNTY = **GREENE**
   B. BUILDING SITE CLASSIFICATION = **D**
   C. SPECTRAL RESPONSE ACCELERATION, Ss = **14.8%**
      Sds (EQUATION 16-19) = **15.8%**
   D. SPECTRAL RESPONSE ACCELERATION, S1 = **7.0%**
      Sd_1 (EQUATION 16-18) = **11.2%**
   E. SEISMIC DESIGN CATEGORY, SDC = **B**
   F. SEISMIC IMPORTANCE FACTOR = **1.25**
   G. SEISMIC FORCE RESISTING SYSTEM = **ORDINARY STEEL MOMENT FRAMES**
   H. RESPONSE MODIFICATION FACTOR, R = **3.5**
   I. ANALYSIS PROCEDURE = **ELFP**
   J. SEISMIC RESPONSE COEFFICIENT, Cs = **0.064**
   K. DESIGN BASE SHEAR, V = **Cs*W MAX**

6. SPECIAL LOADS
   A. INTERIOR FINISH: 5 PSF HORIZONTAL LOAD
   B. HANDRAILS: 200 POUNDS CONCENTRATED LOAD AT ANY POINT IN ANY DIRECTION OR 50 PLF UNIFORM LOAD IN ANY DIRECTION.

MISCELLANEOUS CONSTRUCTION REQUIREMENTS:

1. MINIMUM EMBEDMENT LENGTH OF AN EPOXY DOWEL SHALL BE:
   #3 REBAR – 3" LG EMBEDMENT
   #4 REBAR – 4" LG EMBEDMENT
   #5 REBAR – 6" LG EMBEDMENT
2. ALL STEEL EXPOSED TO WEATHER SHALL BE GALVANIZED (OR STAINLESS STEEL). OTHER STEEL MEMBERS SHALL HAVE ONE COAT OF SHOP PRIMER. TOUCH UP ALL DAMAGED GALVANIZING OR PAINT AFTER INSTALLATION IS COMPLETED. TOUCH UP FIELD WELDED AREAS AS SPECIFIED. STEEL MEMBERS RECEIVING TYPE 1 FIREPROOFING SHALL NOT HAVE ANY PRIMER.

CONNECTIONS, FASTENERS AND ACCESSORIES:

UNLESS SPECIFICALLY NOTED OTHERWISE PROVIDE FASTENERS AND ACCESSORIES AS INDICATED HEREIN:

1. PROVIDE TYPE 304 OR 316 STAINLESS-STEEL FASTENERS FOR EXPOSED TO EXTERIOR AND ZINC-PLATED FASTENERS WITH COATING COMPLYING WITH ASTM B 633, CLASS FE/ZN 5, WHERE BUILT INTO EXTERIOR WALLS. SELECT FASTENERS FOR TYPE, GRADE AND CLASS REQUIRED.
2. ANCHOR BOLTS: ASTM F 1554, GRADE 36.
   MACHINE SCREWS: ASME B18.6.3
   LAG BOLTS: ASME B18.2.1
   PLAIN WASHERS: ROUND, CARBON L, ASME B18.22.1
   LOCK WASHERS: HELICAL, SPRING TYPE, CARBON STEEL, ASME B18.21.1
3. EXPANSION ANCHORS: ANCHOR BOLT AND SLEEVE ASSEMBLE MATERIAL INDICATED BELOW WITH CAPABILITY TO SUSTAIN, WITHOUT FAILURE, A LOAD EQUAL TO SIX TIMES THE LOAD IMPOSED WHEN INSTALLED IN UNIT MASONRY AND EQUAL TO FOUR TIMES THE LOAD IMPOSED WHEN INSTALLED IN UNIT MASONRY AND DETERMINED BY TESTING PER ASTM E 488, CONDUCTED BY A QUALIFIED INDEPENDENT TESTING AGENCY. MATERIAL: ALLOY GROUP 1 & 2 STAINLESS-STEEL BOLTS COMPLYING WITH ASTM F 594 AND NUTS COMPLYING WITH ASTM F594.
4. GROUT:
   NONSHRINK, NONMETALLIC GROUT: FACTORY-PACKAGED, NONSTAINING, NONCORROSIVE, NONGASEOUS GROUT COMPLYING WITH ASTM C 1107. PROVIDE GROUT SPECIFICALLY RECOMMENDED BY MANUFACTURER FOR INTERIOR AND EXTERIOR APPLICATIONS.
5. CAST-IN-PLACE ANCHORS IN CONCRETE: ANCHORS OF TYPE INDICATED BELOW, FABRICATED FROM CORROSION-RESISTANT MATERIALS CAPABLE OF SUSTAINING, WITHOUT FAILURE, THE LOAD IMPOSED WITHIN A SAFETY FACTOR OF 4, AS DETERMINED BY TESTING PER ASTM E 488, CONDUCTED BY A QUALIFIED INDEPENDENT TESTING AGENCY.
6. THREADED OR WEDGE TYPE; GALVANIZED FERROUS CASTINGS, ASTM A47 MALLEABLE IRON OR ASTM A27 CAST STEEL. PROVIDE BOLTS, WASHERS, AND SHIMS AS NEEDED, HOT-DIP GALVANIZED PER ASTM A153.
7. WELDING RODS AND BARE ELECTRODES: SELECT ACCORDING TO AWS SPECIFICATIONS FOR METAL ALLOY WELDED.
8. MIN EMBEDMENT OF FASTENERS SHALL BE AS FOLLOWS U.N.O:
   3/8" DIA. – 3" LG EMBEDMENT
   1/2" DIA. – 4" LG EMBEDMENT
   3/4" DIA. – 6" LG EMBEDMENT
   MAXIMUM SPACING SHALL BE 24" O.C.

CONCRETE:

1. CAST-IN-PLACE CONCRETE WORK SHALL CONFORM TO THE LATEST EDITIONS OF:
   A. AMERICAN CONCRETE INSTITUTE CODES AND STANDARDS, INCLUDING, BUT NOT LIMITED TO ACI 310 (AS MODIFIED IN THE PROJECT MANUAL), ACI 305.1, ACI 306, ACI 315, ACI 318 AND SP-15.
   B. CONCRETE REINFORCING STEEL INSTITUTE (CRSI) "MANUAL OF STANDARD PRACTICE."
2. KEEP A COPY OF THE "FIELD REFERENCE MANUAL OF STANDARD PRACTICE."
3. CONCRETE WORK IN COLD WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 306.1 "STANDARD SPECIFICATION FOR COLD WEATHER CONCRETING". AND ACI 306R "COLD WEATHER CONCRETING".
4. CONCRETE WORK IN HOT WEATHER SHALL CONFORM TO ALL REQUIREMENTS OF ACI 305R "HOT WEATHER CONCRETING". THE AIR TEMPERATURE, RELATIVE HUMIDITY, CONCRETE TEMPERATURE, AND WIND VELOCITY SHALL BE ENTERED INTO THE NOMOGRAPH OF THIS REFERENCE TO DETERMINE IF PRECAUTIONS AGAINST PLASTIC SHRINKAGE ARE REQUIRED.
5. CONCRETE MIX DESIGNS SHALL BE SUBMITTED TO THE STRUCTURAL ENGINEER FOR EACH TYPE OF CONCRETE FOR APPROVAL IN ACCORDANCE WITH ACI 301 SECTION 4.2.3.4 FIELD TEST DATA OR TRIAL MIXTURES.
6. SUBMIT SHOP DRAWINGS FOR REINFORCING STEEL.
7. MATERIALS: (f'c BASED ON 28 DAY UNLESS NOTED)
   A. CONCRETE UNLESS NOTED: f'c= 4000 PSI., NORMAL AGGREGATE.
   B. CONCRETE FOR INTERIOR FLOOR SLABS: f'c=4000 PSI AT 28 DAYS, 1800 PSI AT 3 DAYS, NORMAL WEIGHT AGGREGATE, MINIMUM PORTLAND CEMENT CONTENT PER ACI 301 TABLE 4.2.2.1, WATER NOT PERMITTED TO BE ADDED AT THE SITE, HRWR ADMIXTURE REQUIRED, MAXIMUM WATER/CEMENTITIOUS RATIO=0.50
   C. CONCRETE FOR EXTERIOR FLAT WORK, WALKS, ETC.: f'c=4500 PSI, 4.5% TO 7.5% ENTRAINED AIR), MINIMUM PORTLAND CEMENT CONTENT=520#/CY, MAXIMUM WATER/CEMENTITIOUS RATIO=0.45
   D. CONCRETE FOR FOUNDATION WALLS WITH EXTERIOR EXPOSURE: f'c=4000 PSI, (4.5% TO 7.5% ENTRAINED AIR), MAXIMUM WATER/CEMENTITIOUS RATIO=0.50.
   E. CONCRETE FOR FOOTINGS: f'c=3000 PSI.
   F. LEAN CONCRETE BELOW FOOTINGS: f'c=1500 PSI, MINIMUM PORTLAND CEMENT 376 LB/CU. YD.
   G. REINFORCING STEEL: ASTM A615 60 KSI YIELD DEFORMED BARS AND ASTM A185 MESH, FLAT SHEETS ONLY.
   H. FLY ASH: ASTM C618, TYPE F OR C. FLY ASH-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 25% MAXIMUM.
   I. GROUND GRANULATED BLAST FURNACE SLAG: ASTM C989. TOTAL GROUND GRANULATED BLAST FURNACE SLAG-TO-TOTAL CEMENTITIOUS RATIO SHALL NOT EXCEED 50% MAXIMUM.
   J. HIGH RANGE WATER REDUCER (HRWR) ADMIXTURE: ASTM C494.
   K. CHLORIDE CONTENT OF CONCRETE: LIMIT TOTAL CHLORIDE ION CONTENT TO AMOUNT INDICATED IN TABLE 4.2.2.6 OF ACI 318. ADMIXTURES CONTAINING CHLORIDE ARE NOT PERMITTED IN REINFORCED CONCRETE OR CONCRETE CONTAINING METALS.
8. SLUMP SHALL BE MEASURED PRIOR TO THE ADDITION OF HRWR.
9. LAP SPLICE REINFORCING BARS 48 BAR DIAMETERS UNLESS NOTED OTHERWISE.
10. BAR CLEARANCES BETWEEN ADJACENT BARS AND FORMWORK SHALL BE AS NOTED ON THE DRAWINGS OR A MINIMUM AS PER ACI REQUIREMENTS.
11. AT CORNERS AND INTERSECTIONS OF FOOTINGS, WALLS AND GRADE BEAMS, PROVIDE BENT BARS OF EQUAL SIZE AND AT SAME SPACING AS TYPICAL REINFORCING AROUND CORNER AND/OR INTO ABUTTING WALL OR GRADE BEAM. BARS SHALL HAVE EMBEDMENT OF 30 DIAMETERS (18" MIN.).
12. SEE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR VAPOR BARRIER REQUIREMENTS. VAPOR BARRIER, WHERE REQUIRED, SHALL BE PLACED OVER COMPACTED GRANULAR SUBBASE.
13. AT SLAB AND WALL OPENING CORNERS AND REENTRANT CORNERS, PROVIDE (1) #5 BAR IN EACH FACE PARALLEL TO EACH EDGE EXTENDING A MINIMUM OF 2'-0" PAST EDGE OF OPENING. THIS STEEL MAY BE OMITTED IF TYPICAL REINFORCING STEEL EXCEEDS THIS MINIMUM REQUIREMENT.
14. REINFORCE ALL INTERIOR SLABS ON GROUND WITH 6x6xW2.9/W2.9 (42#) MESH. LOCATE MESH 2" CLEAR BELOW TOP OF SLAB.
15. LAP WELDED WIRE FABRIC MINIMUM 1 FULL SPACE PLUS 2".
16. FINISH OF CONCRETE HANDICAP RAMPS TO CONFORM TO THE REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT (ADA). COORDINATE LOCATION AND PATTERN WITH ARCHITECTURAL DRAWINGS.
17. CONSTRUCTION JOINTS IN SLABS ON GROUND MAY BE LOCATED AT ANY CONTROL JOINT LOCATION. CONSTRUCTION JOINTS SHALL HAVE A KEY FORMED AT MID-DEPTH OF THE FIRST CAST SECTION. THE KEY SHALL BE 1 1/2" DEEP AND SHALL BE 1/3 OF THE SLAB THICKNESS HIGH.
18. PROVIDE 3/4" CHAMFER AT CORNERS OF EXPOSED CONCRETE.
19. WHERE BRITTLE FLOOR FINISHES ARE TO BE APPLIED TO FLOOR SLABS, COORDINATE CONTROL JOINT LOCATIONS WITH FLOOR FINISH JOINT LOCATIONS AND ARCHITECT.

FOUNDATIONS:

1. FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH SUB-SURFACE INVESTIGATION REPORT BY XXXX DATED XXXX. THE CONTRACTOR SHALL BE FAMILIAR WITH THE SURVEY AND THE SUB-SURFACE INVESTIGATION REPORT BEFORE BEGINNING CONSTRUCTION. COPIES OF THE SOILS AND FOUNDATION INVESTIGATION REPORT AREA ARE AVAILABLE FOR INSPECTION IN THE OFFICE OF THE ARCHITECT.
2. CONFORM TO THE RECOMMENDATION OF THE SOIL ENGINEER FOR EXCAVATION, BACKFILL, PREPARATION OF SUBSOIL, UNDERCUTTING AND COMPACTION OF EXISTING SOIL, ENGINEERED BACK FILL, BUILDING PAD PREPARATION, SITE DRAINAGE, ETC. FOR EARTH WORK FOR BUILDING CONSTRUCTION.
3. NOTIFY THE A/E AS SOON AS POSSIBLE OF ANY UNUSUAL SOIL CONDITIONS OR SOIL CONDITIONS IN VARIANCE WITH TEST BORINGS, SUCH AS UNEXPECTED SPRING OR SEEPAGE WATER, MATERIAL DIFFERING FROM TEST BORINGS, OR SOIL OF QUESTIONABLE BEARING CAPACITY.
4. SET FOUNDATIONS AT ELEVATIONS SHOWN, OR ON FIRM UNDISTURBED MATERIAL OF DESIGN BEARING CAPACITY, WHICHEVER IS LOWER. THE CONTRACTOR SHALL RETAIN AN INDEPENDENT SOIL ENGINEERING CONSULTANT TO VERIFY THAT EACH FOOTING PLACED IS BEARING ON DESIGN MATERIAL. FOUNDATION DESIGN BEARING CAPACITY, PER SUB-SURFACE INVESTIGATION REPORT.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND FINAL CLEARANCE OF ANY REQUIRED NEEDLING, UNDERPINNING, SHORING, OR BRACING OF EXISTING STRUCTURES, AS RECOMMENDED BY THE SOIL ENGINEER. (FOR RENOVATION PROJECT).
6. STRUCTURAL FILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% STANDARD PROCTOR DENSITY. UNLESS STRICTER REQUIREMENT IS SPECIFIED, OR RECOMMENDED BY THE SOIL ENGINEER.
7. PROVIDE LEAN CONCRETE UNDER ALL OVER EXCAVATION OF FOOTING.
8. NO BACKFILLING OF FOUNDATION WALLS SHALL BE UNDERTAKEN UNTIL SUITABLE WALL BRACING, TEMPORARY OR PERMANENT, HAS BEEN PROVIDED. BACKFILL BOTH SIDE OF WALL SIMULTANEOUSLY UNLESS BRACED WALL CONSTRUCTION IS INDICATED.
9. DO NOT PLACE FILL ON FROZEN GROUND. ALL SOIL SURROUNDING AND UNDER FOOTINGS SHALL BE PROTECTED FROM FREEZING AND FROST ACTION DURING THE COURSE OF CONSTRUCTION. SOIL THAT HAS BEEN ALLOWED TO FREEZE SHALL BE REMOVED.
10. BOTTOMS OF EXTERIOR FOOTINGS SHALL BE AT LEAST 42" BELOW FINISHED GRADE OR AS PER THE LOCAL FROST DEPTH REQUIREMENT, WHICHEVER IS GREATER.
11. EXCAVATION THROUGH EXISTING SLABS-ON-GRADE SHALL BE CONDUCTED SO AS NOT TO UNDERMINE REMAINING SLABS. UNDERMINED SLABS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE. (RENOVATION/ADDITON PROJECT).
12. SUPPORT BASEMENT RETAINING WALLS AND FOUNDATION WALLS LATERALLY WITH FIRST FLOOR FRAMING BEFORE PLACING ANY BACKFILL. AT THE CONTRACTOR'S OPTION, WALLS MAY BE BRACED AND BACKFILL INSTALLED. ANY SUCH BRACING SHALL BE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL REMAIN IN PLACE UNTIL THE FIRST FLOOR IS COMPLETED TO THE SATISFACTION OF THE A/E.
13. DOWELS IN FOOTINGS TO MATCH VERTICAL COLUMN OR WALL REINFORCING UNLESS SHOWN OTHERWISE.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
GREENE COUNTY

DESIGNED BY:	JFD	JOB NUMBER:	DNR-210003
DRAWN BY:	KABIL	SCALE:	AS NOTED
CHECKED BY:	SPS	PERMIT DATE:	02.25.2022
APPROVED BY:	SPS	DRAWING DATE:	06.16.2022

STRUCTURAL NOTES

SHEET NO. **S0.1**

STRUCTURAL NOTES cont.

STRUCTURAL STEEL:

1. STRUCTURAL STEEL SHALL CONFORM TO THE AISC "SPECIFICATIONS FOR DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS– ALLOWABLE STRESS DESIGN," LATEST EDITION.
2. WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AWS D1.1 – LATEST EDITION.
3. BOLTS AND BOLTED CONNECTIONS SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR STRUCTURAL JOINTS USING ASTM A–325 OR A–490 BOLTS – ALLOWABLE STRESS DESIGN" AS APPROVED BY THE COUNCIL ON REVERTED AND BOLTED JOINTS. USE BEARING–TYPE BOLTS WITH THREADS ALLOWED ACROSS THE SHEAR PLANE. ANCHOR BOLTS SHALL CONFORM TO ASTM A–307.
4. STRUCTURAL STEEL:
   A. USE ASTM A992 GRADE 50 STEEL FOR WIDE FLANGE SHAPES.
   B. ASTM A36, BARS AND RODS.
   C. ASTM A500, GRADE B; TUBING.
   D. ASTM A53, TYPE E OR S, GRADE B; STEEL PIPE.
   E. EXPANSION BOLTS: HILTI "KWIK–BOLTS" OR APPROVED EQUAL.
   F. EPOXY ANCHORS: HILTI OR APPROVED EQUAL.
5. WELDING ELECTRODES SHALL BE E–70 OR BETTER. FOR WELDING SYMBOLS WITH NO LENGTH DIMENSION GIVEN, THE WELDING SHALL BE CONTINUOUS BETWEEN ABRUPT CHANGES IN DIRECTION. WELDS NOT OTHERWISE NOTED SHALL BE 1/4" IN SIZE.
6. IN GENERAL, IT IS THE INTENT OF THESE PLANS AND SPECIFICATIONS THAT ALL SHOP CONNECTIONS BE WELDED AND ALL FIELD CONNECTIONS BE BOLTED EXCEPT WHERE NOTED OTHERWISE.
7. TYPICAL BEAM SHEAR CONNECTIONS NOT SHOWN ON THE DRAWINGS SHALL BE DETAILED WITH STANDARD, DOUBLE–ANGLE TYPE CONNECTIONS, USING A325 BOLTS. SHEAR CONNECTION AS NOTED HERE IS:
   E. NON–COMPOSITE BEAM CONNECTIONS SHALL BE DESIGNED TO DEVELOP 55% OF THE TOTAL LOAD CAPACITY DERIVED FROM THE UNIFORM LOAD CONSTANT TABLES, PART 2, LATEST EDITION OF THE AISC "MANUAL OF STEEL CONNECTION", UNLESS THE REACTION "R" IS SHOWN ON THE DRAWINGS.
   F. EXCEPT AS NOTED HEREIN, ALL OTHER CONNECTIONS TO DEVELOP FULL STRENGTH OF MEMBERS, PROVIDE STIFFENER PLATES, BEARING STIFFENERS AND STIFFENER ANGLES AS REQUIRED.
9. VERIFY THE EXACT SIZE AND LOCATION OF ALL OPENINGS PRIOR TO FABRICATION OF STEEL FRAMING MEMBERS.
10. OPENING THROUGH STEEL BEAMS SHALL BE PROVIDED AS DETAILED ON THE DRAWINGS. ALL SUCH OPENINGS SHALL BE MACHINE CUT. ALL RECTANGULAR OPENINGS SHALL HAVE A CORNER RADIUS OF 2 TIMES THE WEB THICKNESS, 1/2" MINIMUM.
11. PROVIDE BEARING PLATES UNDER STEEL BEAMS OF ADEQUATE SIZE TO KEEP MASONRY BEARING PRESSURE UNDER 200 PSI. STEEL BEAMS AND GIRDERS SHALL BEAR A MINIMUM OF 8" ON MASONRY, UNLESS OTHERWISE NOTED. MINIMUM THICKNESS OF BEARING PLATE SHALL BE 1/2".
12. PROVIDE A NON–METALLIC, NON–SHRINK GROUT UNDER ALL COLUMN BASE PLATES AND BEAM BEARINGS.
13. PROVIDE 3/4" CAP PLATE OVER ALL COLUMNS HAVING BEAM BEARING, AND FIELD WELD THE BEAM FLANGE TO THE CAP PLATE WITH 1/4" FILLET WELD ALL AROUND.
14. PROVIDE 1/4" THICK WEB STIFFENERS FOR BEAMS 16" OR LESS IN DEPTH AND 3/8" FOR BEAMS DEEPER THAN 16" IN ALL LINTELS AND BEAMS AT MASONRY BEARING, AND A PAIR OF WEB STIFFENERS ALIGNED WITH THE FACE OF TUBE COLUMNS WHERE BEAM IS BEARING ON THE TOP OF THE COLUMN CAP PLATE.
15. UNLESS OTHERWISE APPROVED, THE BEAMS SUPPORTING ROOF OR FLOOR DECKS SHALL BE CAMBERED FOR DEAD LOAD DEFLECTION ONLY.
16. PROVIDE COLUMN ANCHORS AT 16" C/C EACH SIDE, FOR ALL COLUMNS ABUTTING MASONRY WALLS.
17. UNLESS DETAILED OTHERWISE, THE MINIMUM FIELD WELD SIZE IS A CONT 3/16" FILLET WELD ALL AROUND ALL CONTACT EDGES OF TWO ADJACENT STEEL SURFACES.

ALLOWANCES / CONTINGENCY:

1. TO BE USED AS DIRECTED BY THE ARCHITECT / ENGINEER.
   A. PROVIDE AND ERECT 2.0 TONS OF STRUCTURAL / MISCELLANEOUS STEEL (W, HSS, CHANNEL).
   B. PROVIDE AND ERECT 1.0 TON OF MISCELLANEOUS STEEL (PLATES AND ANGLES).
   C. PROVIDE AND ERECT THE ABOVE STEEL W/ FIELD WELDED CONNECTIONS, GROUND SMOOTH AS REQUIRED.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER GREENE COUNTY

DESIGNED BY:	JFD	JOB NUMBER:	DNR-210003
DRAWN BY:	KABIL	SCALE:	AS NOTED
CHECKED BY:	SPS	PERMIT DATE:	02.25.2022
APPROVED BY:	SPS	DRAWING DATE:	06.16.2022

STRUCTURAL NOTES

SHEET NO. **S0.2**

LIGHTING SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
R1	LUMINAIRE: TYPE "R1"; SEE LUMINAIRE SCHEDULE	----
R1	ARCHITECTURAL LUMINAIRE: TYPE "R1"; SEE LUMINAIRE SCHEDULE	----
	EMERGENCY EGRESS LUMINAIRE	----
R2 ; W2 ; W2	CEILING OR WALL MOUNTED LUMINAIRE TYPE "R2", "W2"; SEE LUMINAIRE SCHEDULE	SEE DRAWINGS
	CEILING RECESSED WALL WASH LUMINAIRE	----
T4	TRACK LUMINAIRE: TYPE "T4"; SEE LUMINAIRE SCHEDULE; QUANTITY OF HEADS AS SHOWN	----
X1 ; X1	EXIT SIGN FIXTURE (WITH DIRECTIONAL ARROWS AS SHOWN) (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE) SHADED AREA DENOTES FACE	94"
W1 ; W1 C1	EMERGENCY LIGHTING BATTERY PACK W/INTEGRAL HEADS (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE)	94"
P1 ; B1	SITE LUMINAIRE (TYPE AND MOUNTING AS NOTED; SEE LUMINAIRE SCHEDULE)	----
$X	LINE VOLTAGE SWITCH 0 - OCCUPANCY SENSOR SWITCH 2 - 2-POLE 3 - 3-WAY D - DIMMER M - MOMENTARY CONTACT SWITCH TM - SWITCH WITH TIMER VS - VACANCY SENSOR SWITCH	46"
VS	LOW VOLTAGE VACANCY SENSOR, CEILING MOUNTED	CEILING
OS	LOW VOLTAGE OCCUPANCY SENSOR, CEILING MOUNTED	CEILING
$	LOW VOLTAGE SWITCH, 1 ZONE, 2 BUTTON, ON AND OFF	46"
$	LOW VOLTAGE SWITCH AS INDICATED 2 - 2 ZONE, 4 BUTTON, ON AND OFF SC - 4 BUTTON SCENE SELECTOR	46"
D	LOW VOLTAGE DIMMER, 1 ZONE, 4 BUTTON, ON, OFF, RAISE, LOWER	46"
D	LOW VOLTAGE SWITCH AS INDICATED 2 - 2 ZONE, 6 BUTTON, ON/OFF, RAISE, LOWER G - GRAPHIC USER INTERFACE SC - 4 BUTTON SCENE SELECTOR	46"
RC	LIGHTING ROOM CONTROLLER	ABOVE CEILING
PC	DAYLIGHT HARVESTING PHOTOCELL SENSOR	CEILING
PR	PARTITION SENSOR	CEILING

FIRE ALARM SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	COMBINATION FIRE ALARM AUDIBLE AND VISUAL DEVICE	LENS LOCATED WITHIN 80" TO 96"
	FIRE ALARM VISUAL DEVICE	LENS LOCATED WITHIN 80" TO 96"
	FIRE ALARM AUDIBLE DEVICE	≥ 90" TO TOP OF DEVICE ≥ 6" FROM CEILING TO TOP OF DEVICE
	FIRE ALARM MANUAL PULL STATION; K, KEY OPERATED TYPE	48"
DH	FIRE ALARM MAGNETIC DOOR HOLDER	72"
FL	FIRE ALARM FLOW SWITCH (BY DIVISION 22)	----
T	FIRE ALARM TAMPER SWITCH (BY DIVISION 22)	----
S ; H	CEILING MOUNTED FIRE ALARM SMOKE DETECTOR; HEAT DETECTOR	----
S	DUCT MOUNTED FIRE ALARM SMOKE DETECTOR	----
S ER	ELEVATOR RECALL	----
C	CARBON MONOXIDE DETECTOR	----

POWER SYMBOLS

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	SIMPLEX RECEPTACLE; DUPLEX RECEPTACLE; QUADRUPLEX (DOUBLE DUPLEX) RECEPTACLE	18"
	DUPLEX RECEPTACLE; QUADRUPLEX RECEPTACLE GROUND FAULT INTERRUPTER	46"
U	DUPLEX RECEPTACLE, WITH TWO USB PORTS	18"
X ; X	RECEPTACLE FOR EQUIPMENT AS INDICATED	
	CF - COPY/FAX MACHINE	18"
	CM - COFFEE MAKER	46"
	DH - DOOR HARDWARE	----
	EWC - ELECTRIC WATER COOLER	18"
	GD - GARBAGE DISPOSAL	18"
	IM - ICE MACHINE	46"
	M - MONITOR	COORD HT
	MW - MICROWAVE	COORD HT
	PR - PRINTER	COORD HT
	RF - FREEZER/REFRIGERATOR	58"
	SP - ELEVATOR SUMP PUMP; MOUNT IN PIT	46"
	TV - TELEVISION OUTLET MOUNTED IN AV BOX	SEE TECH
	UC - UNDER COUNTER REFRIG./FREEZER	COORD HT
	VD - VENDING MACHINE	58"
	WP - WEATHERPROOF	48"
J	JUNCTION BOX, CEILING OR WALL MOUNTED	SEE DRAWINGS
J X	JUNCTION BOX FOR EQUIPMENT AS INDICATED	
	DH - DOOR HARDWARE	----
	DW - DISHWASHER	18"
	FN - SYSTEM FURNITURE	18"
	H - ELECTRIC HAND DRYER	COORD HT
	HVAC - HVAC CONTROLS	----
	MS - MOTORIZED SCREEN	----
	SD - SMOKE DAMPER	----
	WS - MOTORIZED WINDOW SHADES	----
*	FLOOR RECESSED OUTLET BOX * = # OF DATA REQUIRED, SYMBOL WILL BE ON DATA SHEET WITH QUANTITY	----
*	FLOOR RECESSED / FIRE RATED "POKE THRU" OUTLET ASSEMBLY * = # OF DATA REQUIRED, SYMBOL WILL BE ON DATA SHEET WITH QUANTITY	----
	POKE-THRU FLUSH RECEPTACLE AS INDICATED (SEE SPECIFICATIONS)	
	A - FURNITURE POWER CONNECTION	----
	B - FURNITURE VOICE/DATA CONNECTION	----
F	DUPLEX RECEPTACLE, FLUSH IN FLOOR	----
	RECEPTACLE CABLE DROP REFER TO DETAIL X ON SHEET E-XXX	CEILING
6-30R	SPECIAL PURPOSE RECEPTACLE (TYPE AS NOTED) OR IN SPECIFICATIONS)	SEE DRAWINGS
	SPECIAL PURPOSE RECEPTACLE FOR EQUIPMENT AS INDICATED	
	CD - NEMA 14-30R; CLOTHES DRYER	34"
	RA - NEMA 6-50R; RANGE	4"
F	JUNCTION BOX WITH POWER CONNECTION TO ELECTRONIC FAUCET/DISPENSER	----
AO	AUTOMATIC DOOR OPERATOR 120V 1Ø. PROVIDE WIRING TO PUSHBUTTON	COORD HT
M	MOTOR (BY DIVISION 1-25)	----
S M	MANUAL MOTOR STARTER	46"
S	TOGGLE DISCONNECT SWITCH	46"
S	SWITCH FURNISHED BY OTHERS FOR EQUIPMENT AS INDICATED MS - MOTORIZED SCREEN	46"
60/45/3 3R, NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF" DENOTES NONFUSED	60"
1/25/3 3R	COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE "NF" DENOTES NONFUSED	60"
1/3 3R	MAGNETIC MOTOR STARTER (STARTER SIZE NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE "NF" DENOTES NONFUSED	60"
	PUSHBUTTON STATION	46"
CP	CONTROL PANEL	SEE DRAWINGS
VFD	VARIABLE FREQUENCY DRIVE	SEE DRAWINGS
	VOICE/DATA TERMINAL BOARD	60"
P1 P1	PANELBOARD: SURFACE MOUNTED, FLUSH MOUNTED PANEL DESIGNATION AS SHOWN	72"
	DISTRIBUTION PANELBOARD	----
	CONDUIT, RISER UP	----
	CONDUIT, RISER DOWN	----
	CONDUIT ROUTED OVERHEAD OR IN WALL	----
	CONDUIT ROUTED UNDER FLOORSPACE OR UNDERGROUND	----
	HOME RUN BRANCH CIRCUIT (OVERHEAD)	----
	HOME RUN BRANCH CIRCUIT (UNDERFLOOR)	----
	FLEXIBLE CONDUIT OR CABLE	----
T1	TRANSFORMER: (SIZE AS NOTED OR IN TRANSFORMER SCHEDULE)	SEE DRAWINGS
MC	MOTORIZED SHADE CONTROLLER	COORD HT
HD	AUTOMATIC DOOR OPERATOR PUSHBUTTON	----
HW	HAND WAVE AUTOMATIC DOOR OPERATOR	
PS	POWER SUPPLY	----

POWER GENERAL NOTES
APPLIES TO EACH POWER DRAWING

1. REFER TO DRAWINGS AND SPECIFICATIONS OF OTHER CONSTRUCTION TRADES FOR ADDITIONAL ELECTRICAL WORK INCLUDED IN THIS CONTRACT.
2. COORDINATE EXACT LOCATIONS OF EQUIPMENT WITH OTHER CONSTRUCTION TRADES. VERIFY EXACT WIRING AND CONNECTION REQUIREMENTS WITH SUBMITTAL DOCUMENTS BEFORE INSTALLATION. SPECIALTY OUTLET TYPES SHALL BE VERIFIED BEFORE ORDERING. ALL ELECTRICAL WORK SHOWN HERE MUST BE VERIFIED AND COORDINATED IN FIELD BEFORE INSTALLATION.
3. REFER TO ARCHITECTURAL ELEVATIONS FOR OUTLET MOUNTING HEIGHTS.
4. EXACT LOCATIONS OF FLOOR RECESSED OUTLETS, FLOORBOXES, AND POKE-THRUS, SHALL BE COORDINATED WITH FURNITURE AND EQUIPMENT PLANS. OBTAIN LATEST PLANS FROM OWNERS REPRESENTATIVE.
5. ALL CONDUITS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE RUN INCONSPICUOUSLY AS POSSIBLE, HIDDEN BEHIND BEAMS, CLOSE TO DECK, ETC. OBTAIN APPROVAL OF CONDUIT RUNS BELOW BEAMS WITH OWNER'S REPRESENTATIVE.
6. ALL DEVICES SHOWN ON THE EXTERIOR OF THE BUILDING SHALL BE WEATHERPROOF TYPE. ALL WEATHERPROOF RECEPTACLES HAVE WHILE-IN-USE COVERS UNLESS NOTED OTHERWISE
7. REFER TO ARCHITECTURAL DOOR SCHEDULES, AND DOOR HARDWARE SPECIFICATION FOR ELECTRICAL DEVICES INSTALLED AT DOORS.
8. PROVIDE ALL FINAL POWER CONNECTIONS TO EQUIPMENT. PROVIDE ALL CONDUIT, DEVICE BOXES, AND CONTROL WIRING TO EQUIPMENT UNLESS NOTED OTHERWISE.
9. RACEWAY SHALL RUN AS INCONSPICUOUSLY AS POSSIBLE. VERTICAL RUNS SHALL OCCUR IN CORNERS OF ROOMS. HORIZONTAL RUNS SHALL OCCUR ALONG BASEBOARD OF WALL WITH VERTICAL RUNS UP TO DEVICE BOXES BRANCHING OUT OF CORNER BOXES, TEES, ELBOWS AND ECT.
10. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION.
11. CIRCUIT NUMBER INDICATED WITH "GF" IS A CIRCUIT PROTECTED BY GROUND FAULT INTERRUPTING CIRCUIT BREAKER.

LIGHTING GENERAL NOTES
APPLIES TO EACH LIGHTING DRAWING

1. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS FOR EXACT LOCATIONS OF LUMINAIRES. COORDINATE WITH OTHER TRADES CONTRACTORS, IN ADVANCE OF INSTALLATION, TO AVOID CONFLICTS OF SUFFICIENT SPACE ABOVE CEILINGS FOR RECESSED LIGHTING FIXTURES.
2. REFER TO ARCHITECTURAL ELEVATIONS, CASEWORK, AND DETAILS, ELECTRICAL DETAILS, AND LUMINAIRE SCHEDULE FOR LUMINAIRE MOUNTING HEIGHTS AND ADDITIONAL INSTALLATION INFORMATION.
3. LOCATIONS OF LUMINAIRES IN ROOMS WITH MECHANICAL EQUIPMENT SHALL BE COORDINATED IN FIELD WITH INSTALLED EQUIPMENT. FIXTURES TO BE LOCATED OVER ACCESS PATHWAYS AROUND EQUIPMENT AND NOT OVER TOP OF EQUIPMENT OR DUCTWORK. DO NOT SUSPEND FIXTURES FROM PIPING OR DUCTWORK. PROVIDE APPROPRIATE MOUNTING HARDWARE AS REQUIRED TO SUPPORT FIXTURES.
4. SOME SWITCHED LIGHTING CIRCUITING NOT SHOWN FOR CLARITY. ALL FIXTURES WITHIN A SPACE ARE TO BE CONTROLLED FROM SWITCHES/OCCUPANCY/VACANCY SENSORS SHOWN IN THAT SPACE UNLESS NOTED OTHERWISE.
5. OCCUPANCY/VACANCY SENSOR POWER PACKS ARE NOT SHOWN FOR CLARITY REFER TO OCCUPANCY/VACANCY SENSOR WIRING DIAGRAMS. POWER PACKS TO BE LOCATED WITHIN EACH ROOM ABOVE CEILING ADJACENT TO ENTRY DOOR. PROVIDE CONDUIT AND WIRING FROM POWER PACK TO SENSOR UNITS.
6. INSTALL DRIVER FOR LUMINAIRES PROVIDED WITH REMOTE DRIVERS, IN NEAREST MECHANICAL ROOM WITH SUFFICIENT WALL SPACE. PROVIDE DRIVER WIRING SIZED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATION FOR DISTANCE.
7. PROVIDE STEEL BRIDGING BETWEEN PURLINS/JOISTS/BEAMS AS NECESSARY TO SUPPORT THE WEIGHT OF SUSPENDED LUMINAIRES.

DEMOLITION GENERAL NOTES
APPLIES TO EACH DEMOLITION DRAWING

1. TURN OVER ANY SALVAGEABLE EQUIPMENT.
2. COORDINATE EXACT EXTENT OF DEMOLITION WITH ARCHITECTURAL DEMOLITION DRAWINGS.
3. COORDINATE PHASING OF DEMOLITION AND CONSTRUCTION PER DRAWINGS.
4. REMOVE ALL LIGHTING FIXTURES, DEVICES, OUTLETS, CONDUIT, CABLING, PANELS, AND EQUIPMENT WITHIN AREAS OF DEMOLITION. REMOVE WIRING AND CONDUIT BACK TO SOURCE OR LAST POINT OF CONNECTION TO REMAIN.
5. EXISTING EQUIPMENT OUTSIDE OF SCOPE OF WORK BOUNDARIES SHALL BE MAINTAINED. RECONNECT ANY CIRCUITS CUT PASSING THROUGH DEMOLITION AREAS.
6. REMOVE ALL UNUSED WIRING AND CABLES BACK TO THEIR SOURCE. REMOVE ALL UNUSED CONDUIT THAT IS EXPOSED OR ABOVE ACCESSIBLE CEILINGS WHICH IS AFFECTED BY OR IS IN THE AREA OF THE DEMOLITION WORK.
7. THE INTENTION OF THE ELECTRICAL DEMOLITION DRAWINGS IS TO DISCONNECT AND REMOVE ALL ELECTRICAL WORK MADE VOID BY THE SCOPE OF THE CONSTRUCTION AND ALTERATION. FIELD VERIFY EXACT MATERIAL QUANTITIES REQUIRED TO BE REMOVED.
8. WHERE BURIED CONDUITS EXTENDING OUT OF A CONCRETE SLAB BECOME ABANDONED, CUT AND GRIND THE CONDUITS OFF FLUSH WITH TOP OF SLAB AND PLUG WITH NON-SHRINK WATERPROOF GROUT FILL.
9. COORDINATE ALL DEMOLITION WORK WITH ALL OTHER TRADES.
10. LEGALLY DISPOSE OF HAZARDOUS MATERIALS AND BALLAST OR OTHER EQUIPMENT CONTAINING PCBS AND LAMPS CONTAINING MERCURY. COMPLY WITH ALL FEDERAL, STATE AND LOCAL LAWS.

SCOPE OF WORK NOTES

ALL FIRE ALARM WORK SHALL BE PERFORMED UNDER THIS CONTRACT BY JCI. THIS INCLUDES ALL FIRE ALARM EQUIPMENT, CABLING, AND INSTALLATION. JCI TO PROVIDE AN ALLOWANCE FOR THIS WORK. CONTACT KEN CURTIS AT JCI, 614-381-6230, ken.curtis@jci.com TO COORDINATE THIS WORK. EC TO PROVIDE ALL SECURITY ROUGH-INS.

ELECTRICAL ABBREVIATIONS

ABBREVIATIONS USED ON DRAWINGS IN GENERAL ARE LISTED BELOW. REFER TO CSI DOCUMENT TD-2-4 FOR ANY ABBREVIATIONS LISTED ON THE DRAWINGS BUT ARE NOT LISTED BELOW.

A	AMPS
AC	AIR CONDITIONER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHU	AIR HANDLER UNIT
BRKR	BREAKER
C	CONDUIT
CATV	CABLE ANTENNA TELEVISION
CCTV	CLOSED CIRCUIT TELEVISION
CUH	CABINET UNIT HEATER
CKT	CIRCUIT
CPT	CONTROL POWER TRANSFORMER
Cu	COPPER
DISTR	DISTRIBUTION
DLH	DAYLIGHT HARVESTING
EF	EXHAUST FAN
ELEC	ELECTRICAL
EM	EMERGENCY
EMT	ELECTRICAL METALLIC TUBING
EWC	ELECTRIC WATER COOLER
EX	EXISTING
EXP	EXPLOSION PROOF TYPE DEVICE
F	FUSE
FAA	FIRE ALARM ANNUNCIATOR
FACP	FIRE ALARM CONTROL PANEL
FAP	FIRE ALARM PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
FC	FAN COIL UNIT
FIXT	LIGHT FIXTURE
FLUOR	FLUORESCENT
FLR	FLOOR
FS	FUSIBLE SWITCH
G	GROUND
GRC	GALVANIZED RIGID CONDUIT
GF	GROUND FAULT INTERRUPTING PROTECTION
HID	HIGH INTENSITY DISCHARGE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HP	HORSEPOWER
J	JUNCTION BOX
KEC	KITCHEN EQUIPMENT CONTRACTOR
KV	KILOVOLT
KVA	KILOVOLT AMPERE
KW	KILOWATTS
LC	LIGHTING CONTACTOR
LTG	LIGHTING
LV	LOW VOLTAGE
MCC	MOTOR CONTROL CENTER
MECH	MECHANICAL
MSB	MAIN SWITCHBOARD
MCC	MOTOR CONTROL CENTER
MTD	MOUNTED
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE FROM FINISH FLOOR UNLESS OTHERWISE NOTED.
NIC	NOT IN CONTRACT
NL	NIGHTLIGHT
NTS	NOT TO SCALE
OC OR O/C	ON CENTER
OH	OVERHEAD
P	POLE (PHASE)
PVC	POLYVINYL CHLORIDE
PE	PNEUMATIC/ELECTRIC
PNL	PANEL
Ø OR P	PHASE
RAF	RETURN AIR FAN
RTU	ROOFTOP UNIT
SW	SWITCH
TCP	TEMPERATURE CONTROL PANEL
TFMR	TRANSFORMER
TR	TAMPER RESISTANT
TV	TELEVISION
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLTS
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VIF	VERIFY IN FIELD
VC	VOLUME CONTROL
W	WATTS
WP	WEATHERPROOF TYPE DEVICE
1/E.1	MEANS DETAIL No. 1, DRAWING SHEET "E1"
IT	INFORMATION TECHNOLOGY

SYMBOL LIST GENERAL INFORMATION

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER OF DEVICE UNLESS NOTED OTHERWISE.
3. STRAIGHT LINES BETWEEN DEVICES INDICATE CONTROLLED CIRCUIT.
4. DASHED SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED.
5. SOLID SYMBOLS WITH SUBSCRIPT "R" INDICATE EXISTING DEVICES TO REMAIN.
6. DASHED SYMBOLS WITH SUBSCRIPT "REL" INDICATE EXISTING DEVICES TO BE RELOCATED.
7. SOLID SYMBOLS WITH SUBSCRIPT "RD" INDICATE RELOCATED DEVICES.

DEVICE SUFFIXES

AC	ABOVE COUNTER OUTLET
C	CEILING MOUNTED OUTLET
F	FLOOR MOUNTED OUTLET
L	LINE VOLTAGE TYPE
M	MODULAR FURNITURE OUTLET
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHER PROOF

BRANCH CIRCUIT GENERAL NOTE

1. BRANCH CIRCUIT CONDUIT ROUTING IS NOT SHOWN ON THE PLANS AND LEFT TO THE DISCRETION OF THE CONTRACTOR. BRANCH CIRCUIT WIRE SIZE SHALL BE AS FOLLOWS BASED ON CONDUIT ROUTE LENGTHS. BEFORE WIRING INSTALLATION, VERIFY THAT THE FURTHEST DISTANCE FROM PANELBOARD TO OUTLET DOES NOT EXCEED THE FOLLOWING DISTANCE FOR WIRE SIZE SHOWN. INCREASE WIRE SIZE APPROPRIATELY FOR FARTHER DISTANCES.

CONDUCTOR SIZE	MAXIMUM LENGTH
#12 AWG	100 FEET
#10 AWG	150 FEET
#8 AWG	250 FEET
#6 AWG	400 FEET

ELECTRICAL SHEET INDEX

REVISIONS	
02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED
PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

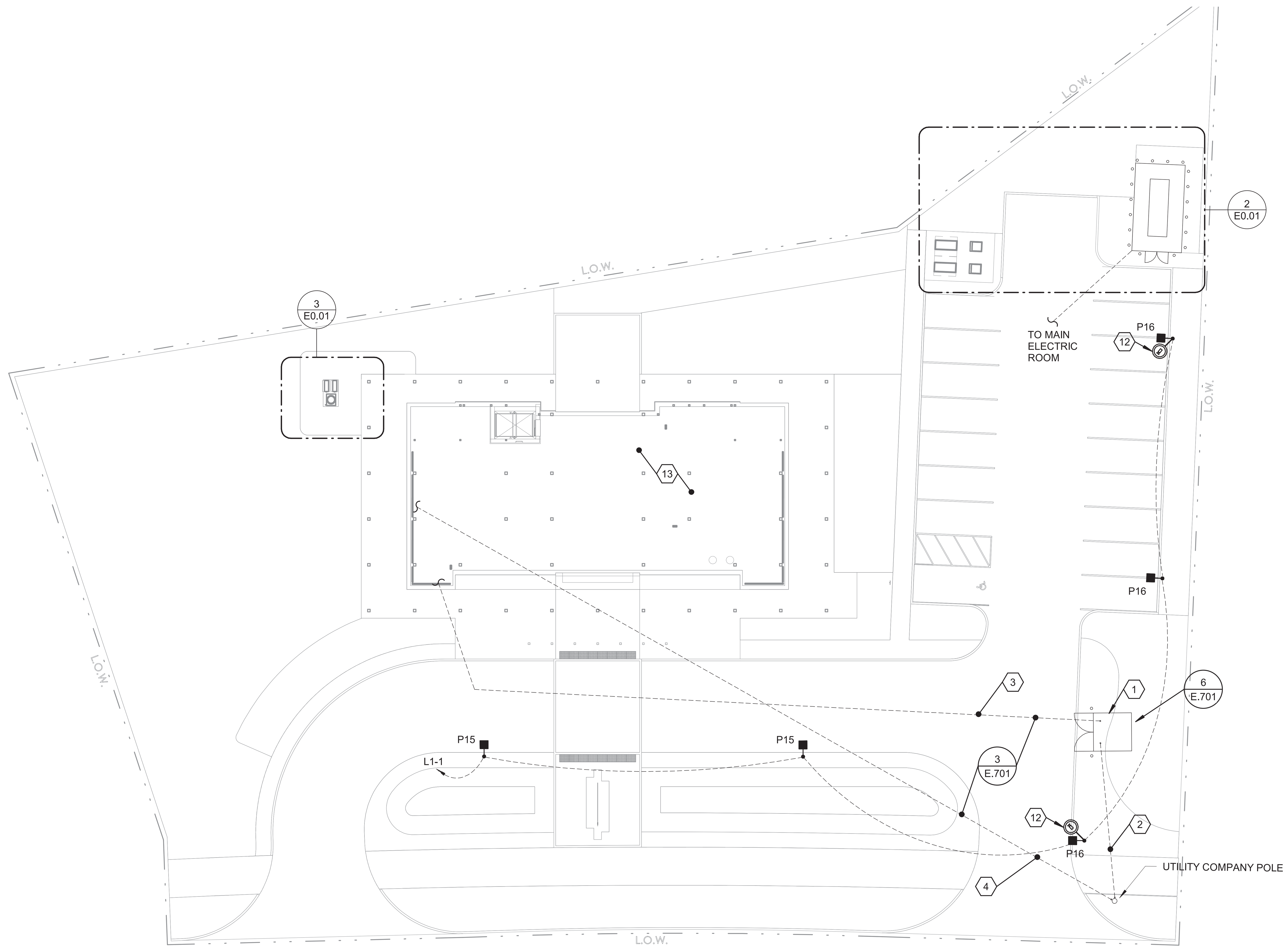
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

ELECTRICAL SYMBOLS AND LEGENDS

SHEET NO.
E0.00



US ROUTE 68

1 SITE PLAN

ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

0 20' 40' 60'

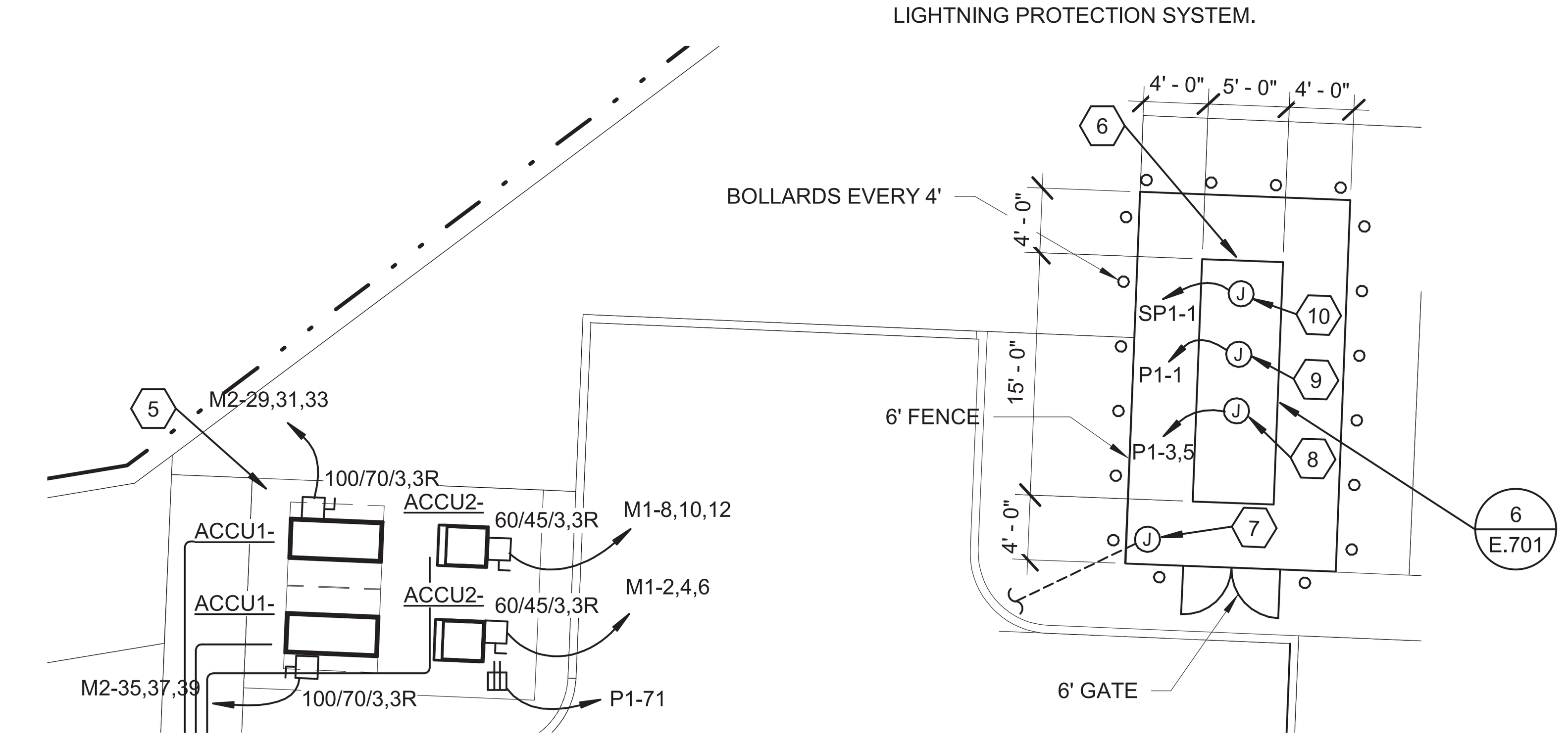
N

GENERAL NOTES

1. PROVIDE WATERTIGHT SEALS AS DESCRIBED IN SPECIFICATION 26 00 55.

CODED NOTES

1. UTILITY COMPANY PAD MOUNTED TRANSFORMER AND METER. PROVIDE CONCRETE PAD & BOLLARDS.
2. 2 - 5" CONDUITS FOR UTILITY COMPANY CABLES.
3. SECONDARY ELECTRICAL SERVICE TO MSB IN BASEMENT.
4. 2 - 3" CONDUITS FOR TELECOM SERVICES.
5. MECHANICAL EQUIPMENT.
6. STAND-BY DIESEL GENERATOR.
7. GENERATOR CONTROL AND MONITORING CABLE.
8. GENERATOR ENGINE JACKET HEATER. (208 V, 1Ø, 4000 W)
9. GENERATOR BATTERY HEATER. (120 V)
10. GENERATOR ENCLOSURE LIGHTING AND OUTLET. (120 V)
11. EXTEND TO INDOOR UNIT IN BASEMENT.
12. EXTERIOR POLE-MOUNTED CAMERA HOUSING, MOUNT, AND ANY BOXES SHALL BE PAINTED TO MATCH POLE. PAINTING SHALL BE PERFORMED PER MANUFACTURER'S INSTRUCTIONS AND UNDERS SUCH CONDITIONS THAT CAMERA WARRANTY SHALL BE MAINTAINED. INSTALLED ON LIGHTING POLE.
13. PROVIDE COMPLETE LIGHTNING PROTECTION SYSTEM ON BUILDING. REFER TO 26 41 13 LIGHTNING PROTECTION SYSTEM.

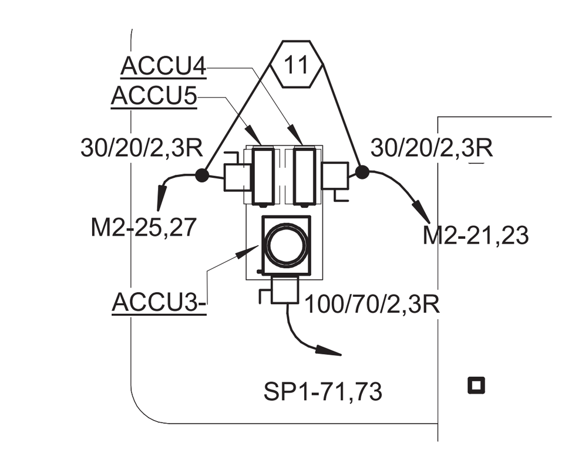


2 ENLARGED PLAN

VRV, DOAS CONDENSING UNITS, AND GENERATOR

SCALE: 1" = 10'-0"

0' 10'



3 ENLARGED PLAN

SPLIT SYSTEM CONDENSING UNITS

SCALE: 1" = 10'-0"

0' 10'

REVISIONS	
02.25.2022	BID DOCUMENTS
03.11.2022	ADDENDUM NO. 1
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
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STANLEY J. KMONK
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REGISTERED
PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Garrett W. Strauss
DESIGNED BY:	Prairie S. Gallina
CHECKED BY:	Checker
PROJECT NUMBER:	2021-0003

CONFORMED DOCUMENTS

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ENGINEERING
Ohio Department of Natural Resources

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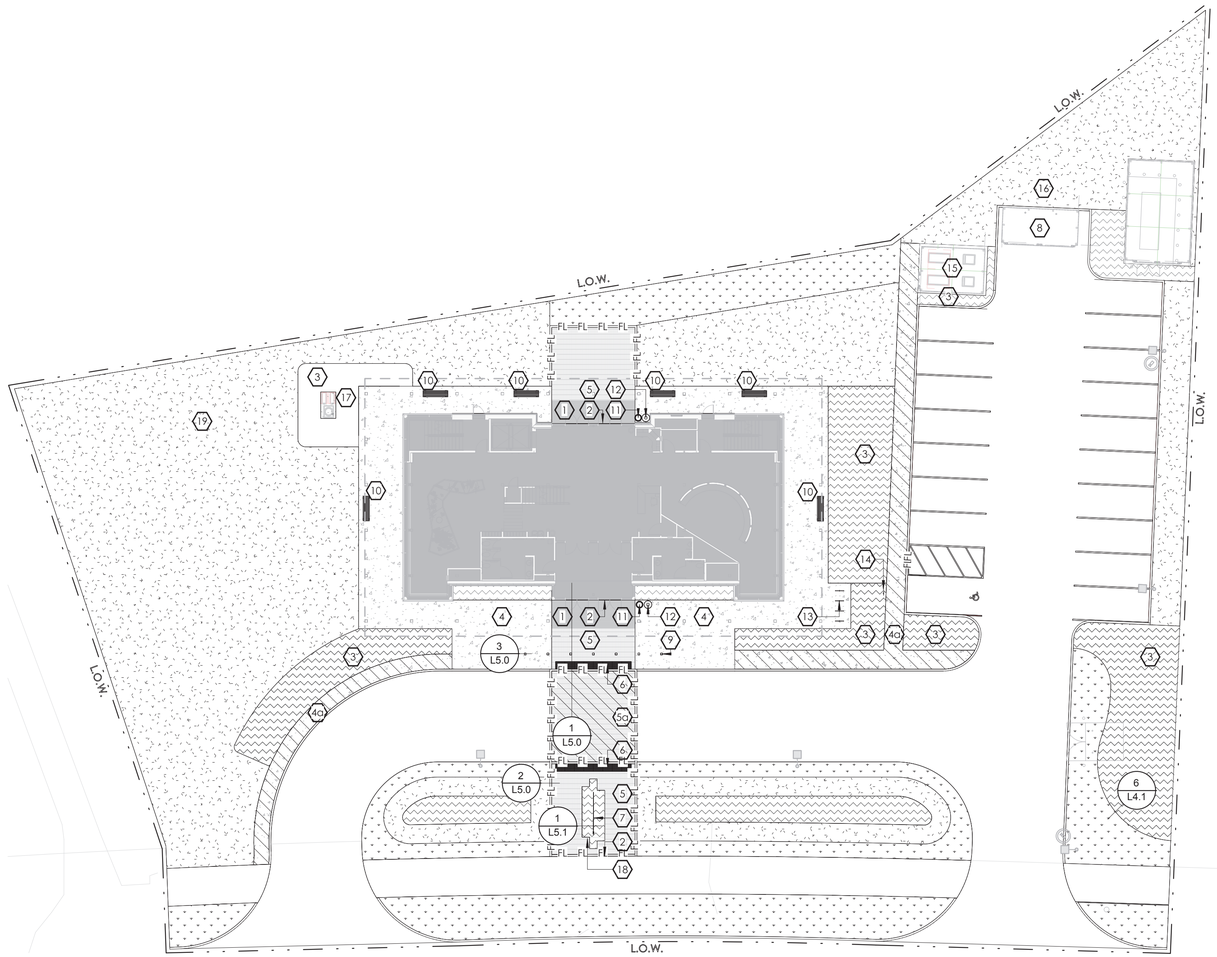
APPROVED BY:	---	DRAWING DATE:	11/30/2021

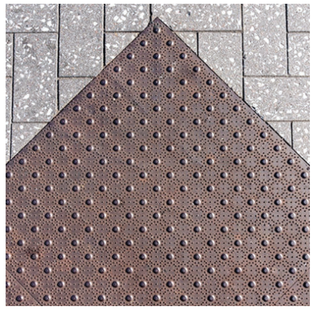
ELECTRICAL SITE PLAN

SHEET NO.
E0.01



1 MATERIAL AND ELEMENTS PLAN

1" = 20'-0"



2 DETECTABLE WARNING PLATES

NOT TO SCALE

3 UNIT PAVERS

NOT TO SCALE

4 BOLLARD

NOT TO SCALE

5 BENCH

NOT TO SCALE

6 LITTER / RECYCLING BIN

NOT TO SCALE

7 BIKE RACK

NOT TO SCALE

GENERAL NOTES - MATERIALS:

1. ALL DIMENSIONS USING CURBS, BUILDING WALLS OR PAVEMENT AS A REFERENCE ARE FROM FACE OF CURB, FINISHED FACE OF BUILDING, FINISHED FACE OF WALL OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
2. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE A/E.
3. EACH CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN AND ACTUAL DIMENSIONS IN THE FIELD, PRIOR TO CONSTRUCTION.
4. ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE A/E WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
5. WORK SHOWN IS BASED ON A SURVEY PROVIDED BY KORDA 1650 WATERMARK DR. COLUMBUS OH 43215 - PHONE 614.487.1650.
6. EXTERIOR PAVEMENT ELEVATIONS AT ALL ENTRANCES TO BUILDING ARE TO BE FLUSH WITH THE FINISHED FLOOR ELEVATION OF THE BUILDING ENTRANCE ELEVATIONS.
7. FOR SITE FURNISHINGS REFER TO SPECIFICATION 12 93 00 - SITE FURNISHINGS.

CODED NOTES - MATERIALS

1. FROST SLAB. REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. PAVERS TO MEET FLUSH WITH ADJACENT SURFACES.
3. SHREDDED HARDWOOD MULCH.
4. MICRO ETCH CONCRETE PAVING. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. FOLLOW PLAN ON SHEET L2.0 FOR CONCRETE SCORING.
4a. CONCRETE PAVING. REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION. FOLLOW PLAN ON SHEET L2.0 FOR CONCRETE SCORING.
5. PLANK PAVER BY BELDEN BRICK OR APPROVED EQUAL. SEE DETAIL 4 ON SHEET L2.0 FOR PAVER COLOR AND MIX.
5a. HEAVY DUTY PLANK PAVER BY BELDEN BRICK OR APPROVED EQUAL. SEE DETAIL 4 ON SHEET L2.0 FOR PAVER COLOR AND MIX.
6. TRUNCATED DOME WARNING PLATE. INSTALL PER MANUFACTURER RECOMMENDATIONS.
7. MONUMENT SIGN TO BE DESIGNED.
8. REFUSE ENCLOSURE AREA. SEE ARCHITECTURE DRAWINGS. REFUSE CONTAINERS TO BE PROVIDED BY OWNER.
9. EMBEDDED BOLLARD. INSTALL PER MANUFACTURER RECOMMENDATIONS.
10. BENCH. INSTALL PER MANUFACTURER RECOMMENDATIONS.
11. LITTER BIN. INSTALL PER MANUFACTURER RECOMMENDATIONS.
12. RECYCLING BIN. INSTALL PER MANUFACTURER RECOMMENDATIONS.
13. BIKE RACK. INSTALL PER MANUFACTURER RECOMMENDATIONS.
14. ADA PARKING SIGNAGE. SEE CIVIL ENGINEER'S DRAWINGS FOR ADDITIONAL INFORMATION. SEE SHEETS C1.2 AND C1.3 FOR STAKING DETAILS. SEE DETAIL A ON SHEET C1.3 FOR ADA PARKING SIGN.
15. CONDENSING ENCLOSURE. SEE MEP DRAWINGS - SHEET E0.01 - ELECTRICAL SITE PLAN AND SHEET H2.00 - LEVEL 1 HVAC SITE PLAN FOR MORE INFORMATION.
16. BACKUP GENERATOR ENCLOSURE. SEE MEP DRAWINGS - SHEET E0.01 - ELECTRICAL SITE PLAN FOR MORE INFORMATION.
17. CONDENSING UNIT. SEE MEP DRAWINGS - SHEET E0.01 - ELECTRICAL SITE PLAN AND SHEET H2.00 - LEVEL 1 HVAC SITE PLAN FOR MORE INFORMATION.
18. STAINLESS STEEL UNIT PAVER RETENTION ANGLE.
19. EROSION-CONTROL FIBER MESH: BIODEGRADABLE BURLAP OR SPUN-COIR MESH, A MINIMUM OF 0.92 LB/SQ YD. WITH 50 TO 65 PERCENT OPEN AREA. INCLUDE MANUFACTURER'S RECOMMENDED STEEL WIRE STAPLES, 6" LONG.

LEGEND - MATERIALS & ELEMENTS:

- SHREDDED HARDWOOD MULCH
- LOW-PROFILE PRAIRIE SEED MIX
- BOLLARD
- FLUSH CONCRETE CURB
- CONCRETE PAVING
- BIORETENTION SEED MIX
- BENCH
- UNIT PAVERS
- CONCRETE CURB
- LITTER / RECYCLING BIN
- LAWN
- TRUNCATED DOME WARNING PLATE
- BIKE RACK

REVISIONS
06.16.2022 - CONFORMED SET

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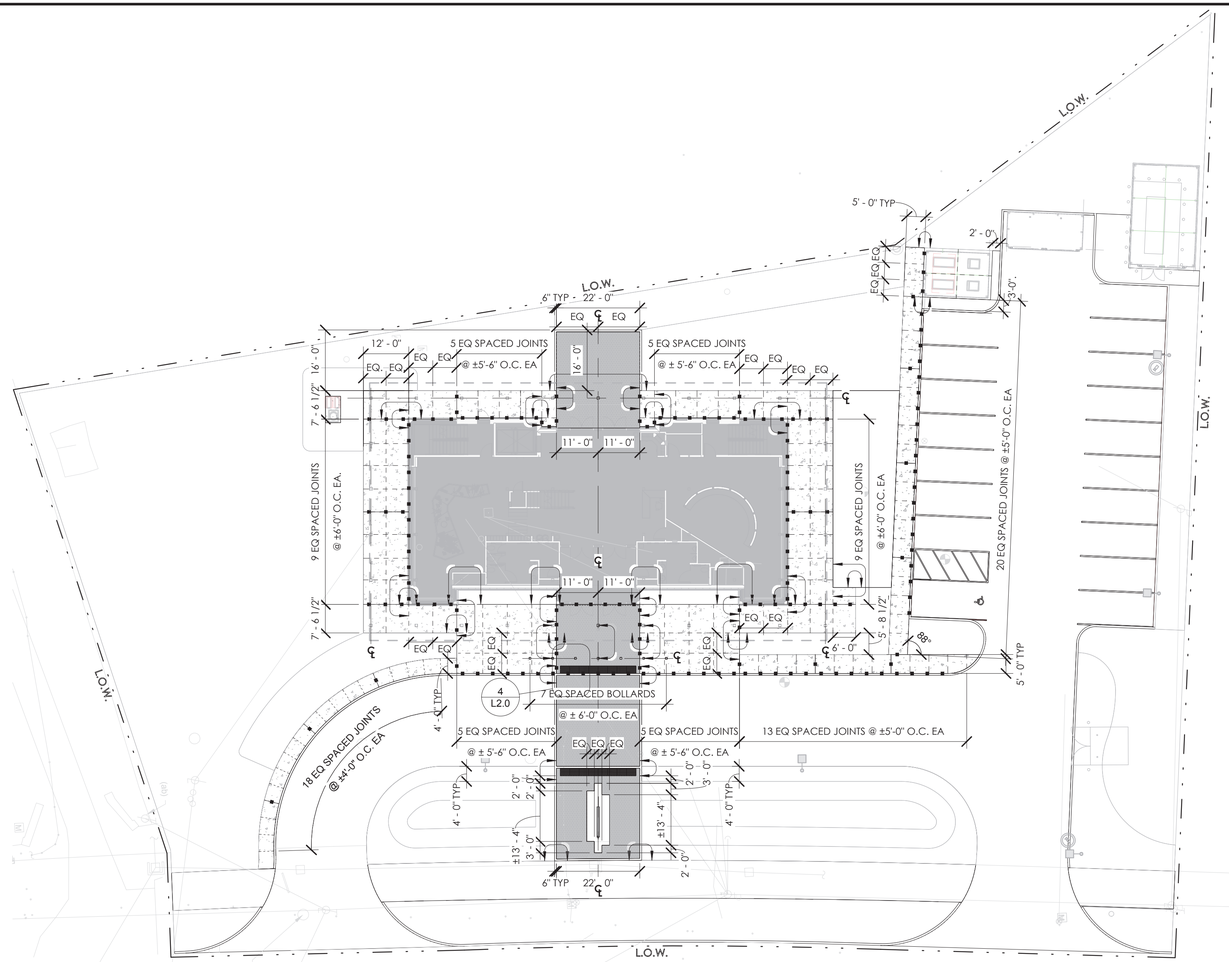
MATERIALS PLAN

SHEET NO. **L1.0**

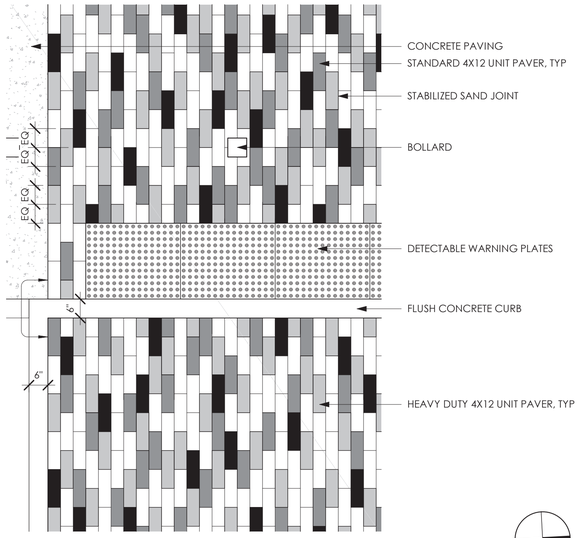


1 LAYOUT AND JOINTING PLAN

1" = 20'-0"

UNIT PAVER LEGEND:

- 10% - BELDEN FIELD GRAY PLANK PAVER
- 20% - BELDEN SEAL BROWN PLANK PAVER
- 25% - BELDEN 671 PLANK PAVER
- 45% - BELDEN DUTCH GRAY PLANK PAVER



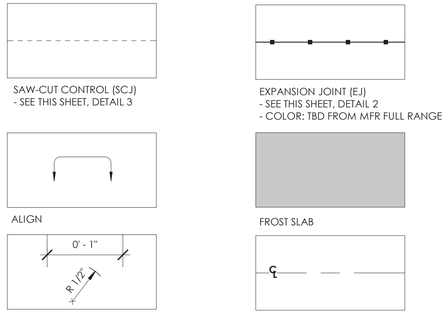
4 PAVING PATTERN ENLARGEMENT PLAN

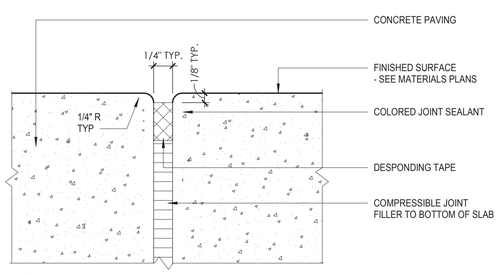
1/2" = 1'-0"

GENERAL NOTES - LAYOUT & JOINTING:

1. ALL DIMENSIONS SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. DO NOT SCALE DRAWINGS, UTILIZE DIMENSIONS INDICATED ON DRAWINGS.
3. ALL DIMENSIONS USING CURBS, BUILDING WALLS OR PAVEMENT AS A REFERENCE ARE FROM FACE OF CURB, FINISHED FACE OF BUILDING, FINISHED FACE OF WALL OR EDGE OF PAVEMENT, UNLESS NOTED OTHERWISE.
4. UNLESS INDICATED OTHERWISE, ALL WALKWAYS AND HARDSCAPE ABUT AT 90 DEGREE ANGLES.
5. ALL CONCRETE SCORING SHALL BE PARALLEL, PERPENDICULAR OR TANGENT TO ADJACENT IMPROVEMENTS UNLESS OTHERWISE NOTED.
6. PROVIDE ISOLATION JOINTS WHERE CONCRETE PAVING OR PAVING BASE MEETS A FIXED STRUCTURE (EXISTING AND PROPOSED).
7. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR THE A/E.
8. EACH CONTRACTOR SHALL NOTIFY THE A/E IMMEDIATELY IF A DISCREPANCY IS FOUND BETWEEN THE DIMENSION GIVEN AND ACTUAL DIMENSIONS IN THE FIELD, PRIOR TO CONSTRUCTION.
9. ALL LAYOUT TO BE BY A REGISTERED SURVEYOR OR ENGINEER. THE A/E WILL REVIEW THE LAYOUT FOR GENERAL CONFORMANCE PRIOR TO CONSTRUCTION.
10. WORK SHOWN IS BASED ON A SURVEY PROVIDED BY KORDA 1650 WATERMARK DR. COLUMBUS OH 43215 - PHONE 614.487.1650.
11. EXTERIOR PAVEMENT ELEVATIONS AT ALL ENTRANCES TO BUILDING ARE TO BE FLUSH WITH THE FINISHED FLOOR ELEVATION OF THE BUILDING ENTRANCE ELEVATIONS.
12. FOR SITE FURNISHINGS REFER TO SPECIFICATIONS 12 93 00 - SITE FURNISHINGS.
13. COLUMN JOINTING TO BE BY THE RECOMMENDATION OF THE STRUCTURAL ENGINEER.

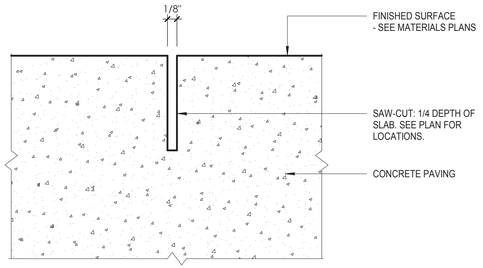
LAYOUT & JOINTING LEGEND:





2 EXPANSION JOINT (EJ)

12" = 1'-0"



3 SAW-CUT CONTROL JOINT (SCJ) ENLARGEMENT

12" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

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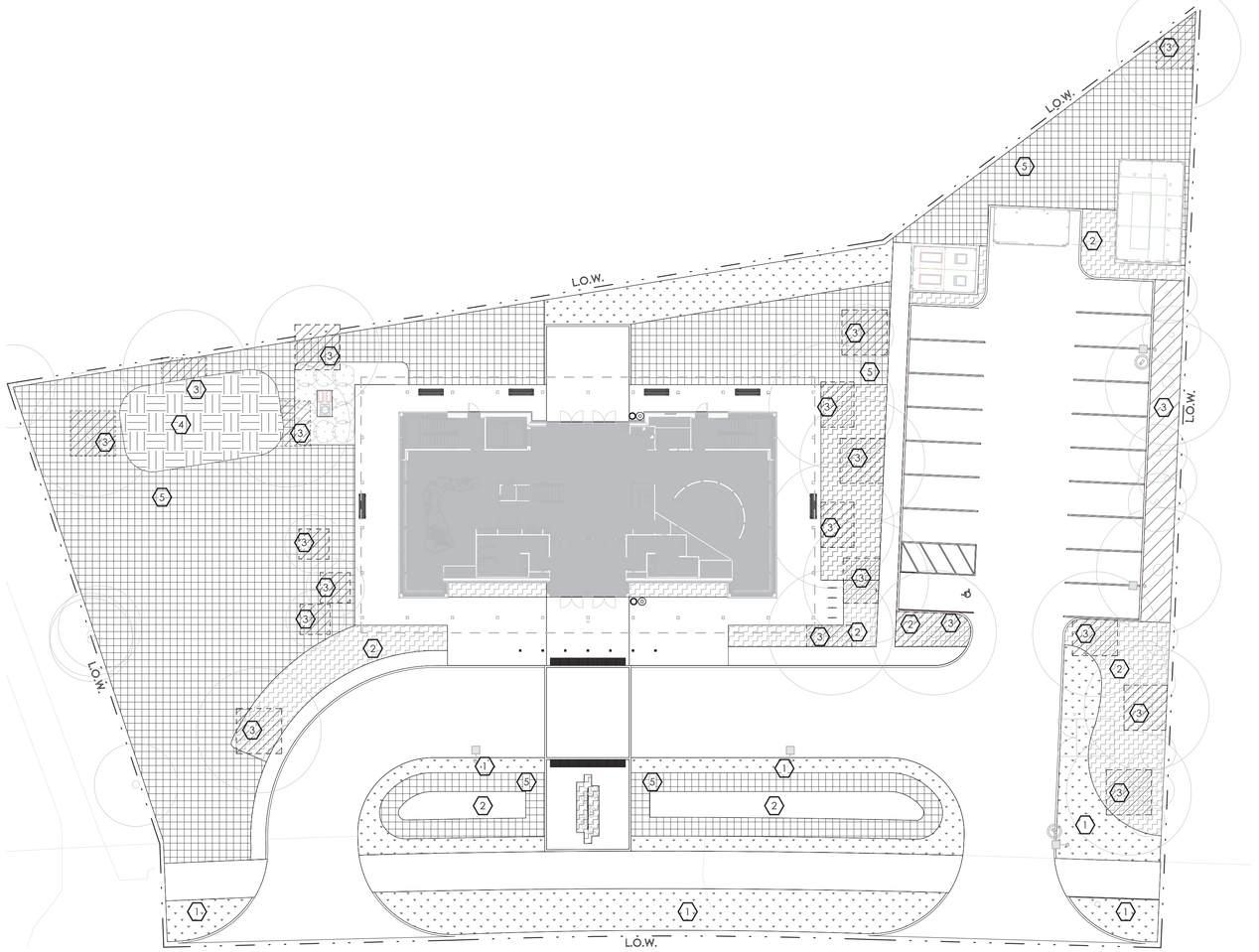
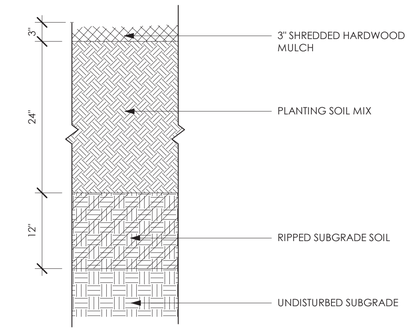
LAYOUT & JOINTING PLAN

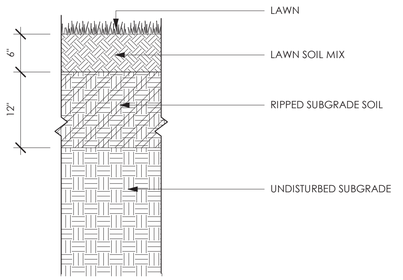
SHEET NO. **L2.0**



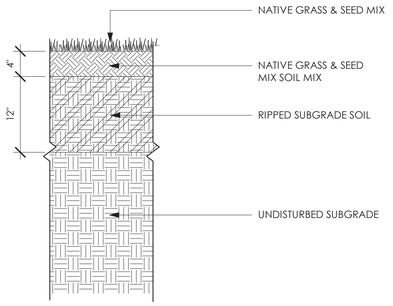
1 SOILS PLAN
1" = 20'-0"



2 SOIL PROFILE - PLANTING BED
1" = 1'-0"



3 SOIL PROFILE - LAWN
1" = 1'-0"



4 SOIL PROFILE - NATIVE GRASS & SEED MIX
1" = 1'-0"

GENERAL NOTES - SOILS:

1. SEE SITE SURVEY FOR EXISTING GRADE CONDITIONS AND BENCH MARK INFORMATION.
2. EXTERIOR PAVEMENT ELEVATIONS AT ALL ENTRANCES TO BUILDING OR ADJACENT TO EXISTING PAVEMENTS ARE TO BE FLUSH WITH THE FINISHED FLOOR ELEVATION OF THE BUILDING OR SLAB U.N.O.
3. INSURE POSITIVE DRAINAGE ACROSS ALL FINISH GRADED SURFACES.
4. SEE REPORT OF SUBSURFACE EXPLORATION AND FOUNDATION RECOMMENDATIONS IF AVAILABLE, FOR ADDITIONAL REQUIREMENTS OF GRADING OPERATIONS.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING INLET PROTECTION FOR ALL DRAIN INLETS WITHIN THE LIMITS OF GRADING.
6. ALL STORM SEWERS UNDER PAVED AREAS ARE TO HAVE COMPACTED GRANULAR BACKFILL.
7. FOR ALL NEW CATCH BASINS IN PAVED AREAS THE CONTRACTOR SHALL PROVIDE 4" PERFORATED UNDERDRAIN ON EACH SIDE OF THE CATCH BASIN EXTENDED 6' IN THE PAVED AREA. WRAP UNDERDRAIN WITH FILTER FABRIC, SURROUND THE UNDERDRAIN WITH 4" OF # 57 STONE. PLACE UNDERDRAIN BELOW THE BASE COURSE OF THE PAVEMENT.
8. ALL AREAS DISTURBED BY GRADING OPERATIONS OUTSIDE BUILDING AND PAVEMENT AREAS ARE TO BE FINE GRADED AND SEEDED. SEE LANDSCAPE PLANS AND SPECIFICATIONS.

CODED NOTES - SOILS

1. 6" DEPTH LAWN SOILS. SEE SPECIFICATION 32 91 13 - SOIL PREPARATION FOR SOIL COMPOSITION AND CONDITIONS.
2. 24" DEPTH PLANTING SOIL MIX TOPPED WITH 3" SHREDDED HARDWOOD MULCH. SEE SPECIFICATION 32 91 13 - SOIL PREPARATION FOR SOIL COMPOSITION AND CONDITIONS.
3. TREE PLANTING SOIL MIX. SEE SPECIFICATION 32 91 13 - SOIL PREPARATION FOR SOIL COMPOSITION AND CONDITIONS.
4. BIORETENTION SOIL MIX. REFER TO CIVIL ENGINEERING SOIL SPECIFICATIONS AND DETAILS FOR BIORETENTION SOIL COMPOSITION AND DEPTH.
5. LOW-PROFILE PRAIRIE SEED MIX. REFER TO SOIL SPECIFICATION 32 91 13 - SOIL PREPARATION FOR SOIL PREP & MIX.

SOILS LEGEND:

1 — SEE THIS SHEET, DETAIL 3
LAWN

2 — SEE THIS SHEET, DETAIL 2
GROUNDCOVER / PERENNIAL PLANTING AREAS

3 — SEE SHEET L4.0, DETAIL 2
TREE PLANTING

4 — REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION
BIOSWALE SOIL MIXTURE

5 — SEE THIS SHEET, DETAIL 4
NATIVE SEED SOIL PREP.

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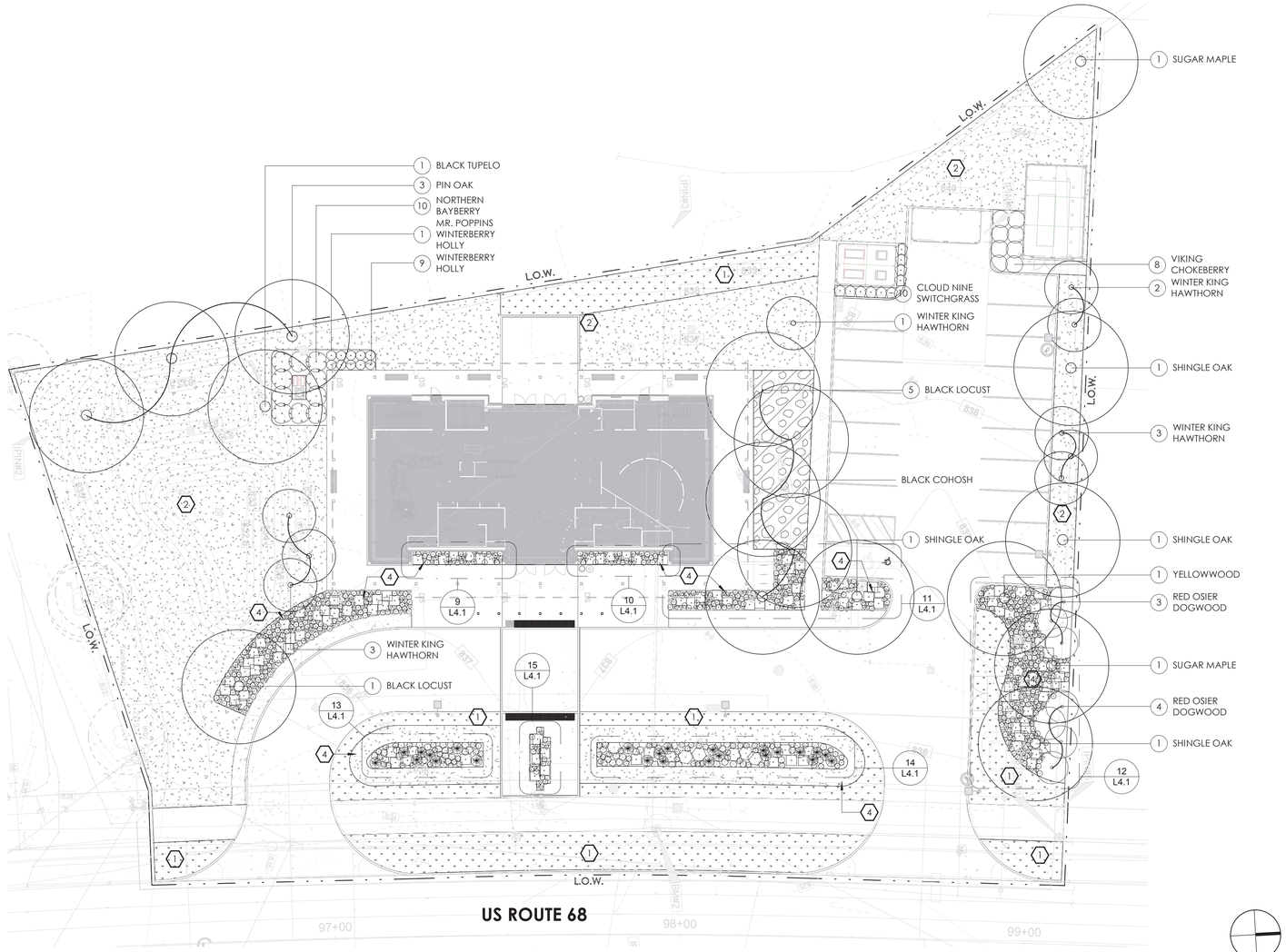
SOILS PLAN

SHEET NO. **L3.0**

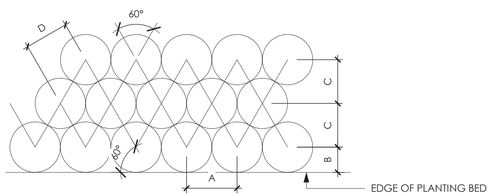


1 PLANTING PLAN

1" = 20'-0"

SPACING A B C D
12" 12" 6" 10" 12"
15" 15" 7.5" 12.5" 15"
18" 18" 9" 15" 18"
24" 24" 12" 20" 24"
36" 36" 18" 30" 36"
48" 48" 24" 40" 48"

A = SPACING
B = SPACING / 2
C = SPACING / 1.2
D = SPACING



2 TRIANGULAR PLANTING SPACING

NOT TO SCALE

LEGEND - PLANTING:

TREES:

PROPOSED SHADE TREE

EXISTING TREE

ORNAMENTAL TREE

SHRUBS:

PROPOSED SHRUB

PERENNIALS:

Actea racemosa
BLACK COHOSH

Amsonia 'Blue Ice'
BLUE ICE AMSONIA

Asclepias tuberosa
BUTTERFLY WEED

Echinacea purpurea 'Cheyenne Spirit'
PURPLE CONEFLOWER

Eutrochium dubium 'Baby Joe'
BABY JOE PYE WEED

Liatris microcephala
SMALL-HEADED BLAZING STAR

Panicum virgatum 'Cloud Nine'
CLOUD NINE SWITCHGRASS

Panicum virgatum 'Shenandoah'
SHENANDOAH SWITCHGRASS

Sporobolus heterolepis
PRAIRIE DROPSEED

Schizachyrium scorparium
LITTLE BLUESTEM

GRASSES & SEED MIXES:

LAWN

LOW-PROFILE PRAIRIE SEED MIX

GENERAL NOTES - PLANTING

1. EXAMINE FINISH SURFACE, GRADES, TOPSOIL QUALITY AND DEPTH. DO NOT START ANY WORK UNTIL UNSATISFACTORY CONDITIONS HAVE BEEN CORRECTED. VERIFY LIMITS OF WORK BEFORE STARTING.
2. CONTRACTOR IS RESPONSIBLE FOR COST OF REPAIRS TO EXISTING CONDITIONS WHEN DAMAGED BY CONTRACTOR. REPAIR DAMAGES TO THE SATISFACTION OF THE OWNER.
3. ALL PLANT MASSES TO BE CONTAINED WITHIN 3" DEEP HARDWOOD BARK MULCH BED.
4. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN ALL LAWN AREAS.
5. FINE GRADE LAWN AREAS TO PROVIDE A SMOOTH AND CONTINUAL GRADE FREE OF IRREGULARITIES OR DEPRESSIONS.
6. CONTRACTOR SHALL SEED OR SOD ALL AREAS DISTURBED DURING CONSTRUCTION, SEE PLAN.
7. ALL PLANTS SHALL MEET OR EXCEED STANDARDS SET IN THE U.S.A. STANDARD FOR NURSERY STOCK.
8. ALL PLANTING OPERATIONS SHALL ADHERE TO THE AMERICAN ASSOCIATION OF NURSERYMEN STANDARDS.
9. EACH CONTRACTOR IS TO VERIFY WITH THE OWNER AND UTILITY COMPANIES THE LOCATIONS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE IN THE FIELD THE ACTUAL LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT. THE CONTRACTOR SHALL CALL UTILITY PROTECTION SERVICE 72 HOURS PRIOR TO CONSTRUCTION.

CODED NOTES - PLANTING

1. LAWN AREA
2. LOW-PROFILE PRAIRIE SEED MIX, SEE SPECIFICATIONS.
3. BIORETENTION PLANTING MIX-NOT USED
4. PERENNIAL PLANTING BED

OVERALL PLANTING SCHEDULE- CONTRACTOR RESPONSIBLE FOR PLANT QUANTITIES

QTY.	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	COMMENTS
TREES					
2	Acer saccharum	SUGAR MAPLE	3" CAL.	B&B	
1	Cladrastis kentukea	YELLOWWOOD	3" CAL.	B&B	
9	Crataegus viridis 'Winter King'	WINTER KING HAWTHORN	3" CAL.	B&B	
1	Nyssa sylvatica	BLACK TUPELO	3" CAL.	CONT.	
4	Quercus imbricaria	SHINGLE OAK	3" CAL.	B&B	
3	Quercus palustris	PIN OAK	3" CAL.	B&B	
6	Robinia pseudoacacia	BLACK LOCUST	3" CAL.	B&B	
SHRUB					
8	Aronia melanocarpa 'Viking'	VIKING CHOKEBERRY	3 GAL.	CONT.	
7	Cornus sericea	RED OSIER DOGWOOD	36" HT.	CONT. OR B&B	SPACING AS SHOWN
9	Ilex verticillata 'Berry Poppin's'	WINTERBERRY HOLLY	1 GAL.	CONT.	
1	Ilex verticillata 'Mr. Poppin's'	MR. POPPINS WINTERBERRY HOLLY	1 GAL.	CONT.	
10	Myrica pensylvanica	NORTHERN BAYBERRY	24" HT.	CONT. OR B&B	SPACING AS SHOWN
PERENNIAL					
24	Amsonia 'Blue Ice'	AMSONIA 'BLUE ICE'	1 GAL.	CONT.	
51	Asclepias tuberosa	BUTTERFLY WEED	1 GAL.	CONT.	
49	Echnacea purpurea 'Cheyenne Spirit'	PURPLE CONEFLOWER	1 GAL.	CONT.	
6	Eutrochium dubium 'Baby Joe'	BABY JOE PYE WEED	1 GAL.	CONT.	
10	Panicum virgatum 'Cloud Nine'	CLOUD NINE SWITCHGRASS	1 GAL.	CONT.	SPACING AS SHOWN
123	Panicum virgatum 'Shenandoah'	SHENANDOAH SWITCH GRASS	1 GAL.	CONT.	SPACING AS SHOWN
445	Schizachyrium scoparium	LITTLE BLUESTEM	1 GAL.	CONT.	SPACING AS SHOWN
413	Sporobolus heterolepis	PRAIRIE DROPSEED	1 GAL.	CONT.	SPACING AS SHOWN
215	Actaea racemose	BLACK COHOSH	1 GAL.	CONT.	24" O.C. TRI. SPACING
GRASSES & SEED MIXES					
4,806 SF	LAWN	SEE SPEC 329200		SOD	
11,751 SF	LOW-PROFILE PRAIRIE SEED MIX	SEE SPEC 329250		SEED	

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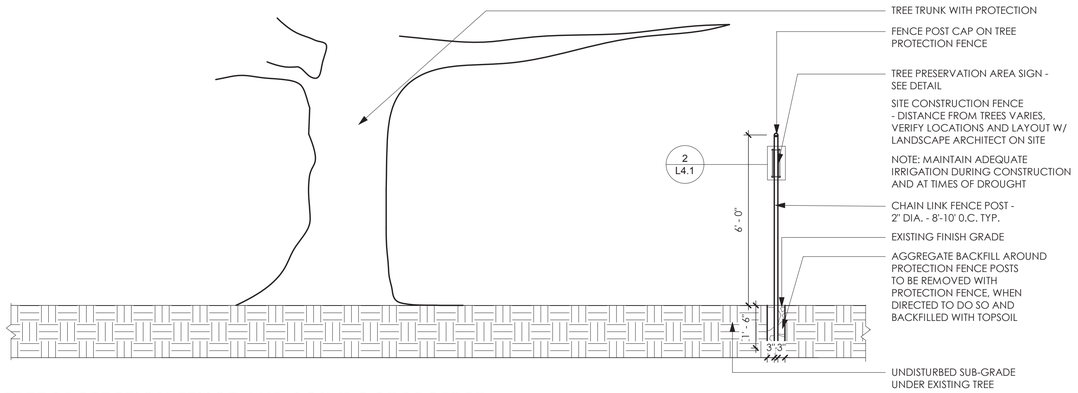
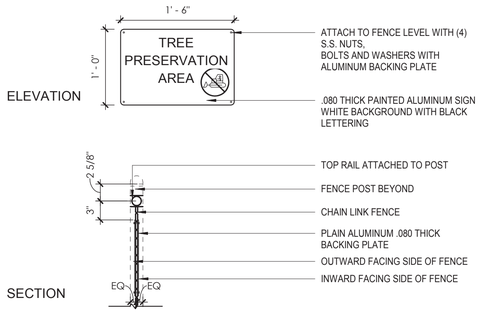
PLANTING PLAN

SHEET NO. **L4.0**



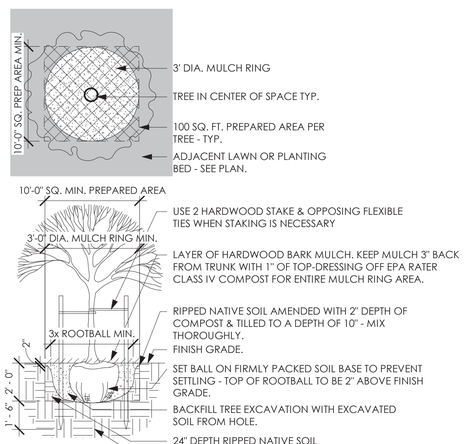
1 TREE PROTECTION FENCE AND SOIL/ROOT PROTECT

NOT TO SCALE



2 TREE PROTECTION SIGN

NOT TO SCALE

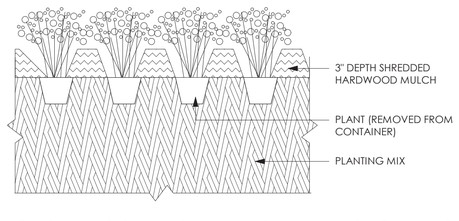


TREE PLANTING NOTES:

1. REMOVE EXCESS SOIL FROM ROOTBALL TO EXPOSE ROOT FLAIR & TRIM ANY SECONDARY/ADVENTITIOUS, GIRDLING & POTENTIAL GIRDLING ROOTS WITH CLEAN, SHARP PRUNING TOOLS.
2. ODNR SUGGESTS 100' SF (10x10').

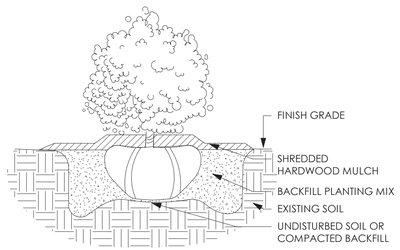
3 TREE PLANTING DETAIL

NOT TO SCALE



4 GROUNDCOVER / PERENNIAL PLANTING DETAIL

NOT TO SCALE

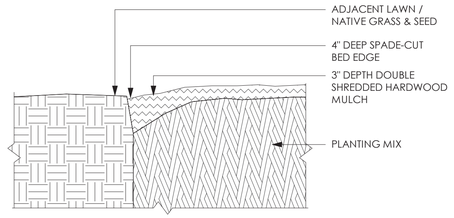


SHRUB PLANTING NOTES:

1. TOP OF ROOTBALL TO BE 2"-3" ABOVE ADJACENT GRADE.
2. REMOVE ROPE & BURLAP FROM TOP 1/3 OF ROOTBALL. CUT 1/3 OF WIRE BASKET FROM ROOTBALL. REMOVE ALL LABELS, TAGS, OR OTHER FOREIGN MATERIALS FROM LIMBS.

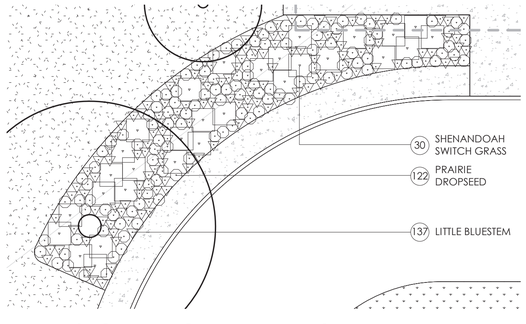
5 SHRUB PLANTING DETAIL

NOT TO SCALE



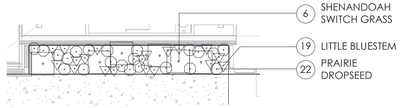
6 PLANTING BED EDGE

NOT TO SCALE



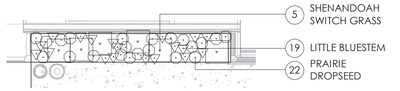
8 PLANTING ENLARGEMENT PLAN 2

1" = 10'-0"



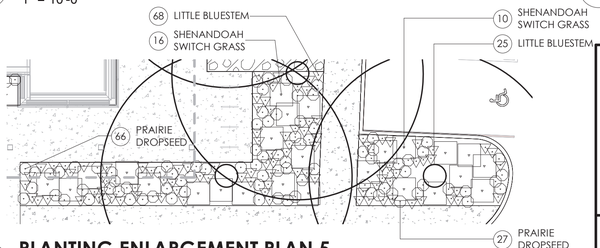
9 PLANTING ENLARGEMENT PLAN 3

1" = 10'-0"



10 PLANTING ENLARGEMENT PLAN 4

1" = 10'-0"

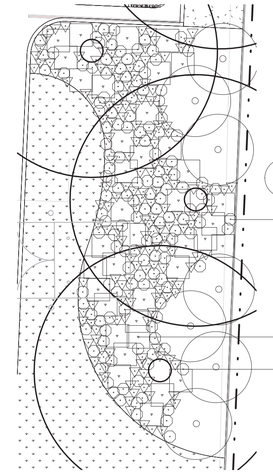


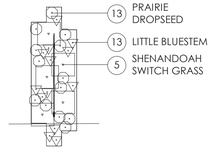
11 PLANTING ENLARGEMENT PLAN 5

1" = 10'-0"

LEGEND - PLANTING: PERENNIALS

- Actea racemosa — BLACK COHOSH
- Amsonia 'Blue Ice' — BLUE ICE AMSONIA
- Asclepias tuberosa — BUTTERFLY WEED
- Echinacea purpurea 'Cheyenne Spirit' — PURPLE CONEFLOWER
- Eutrochium dubium 'Baby Joe' — BABY JOE PYE WEED
- Liatris microcephala — SMALL-HEADED BLAZING STAR
- Panicum virgatum 'Cloud Nine' — CLOUD NINE SWITCHGRASS
- Panicum virgatum 'Shenandoah' — SHENANDOAH SWITCHGRASS
- Sporobolus heterolepis — PRAIRIE DROPSEED
- Schizachyrium scorparium — LITTLE BLUESTEM



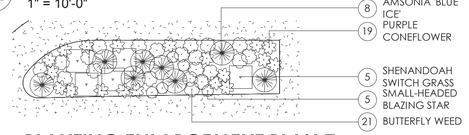


15 PLANTING ENLARGEMENT PLAN 9

1" = 10'-0"

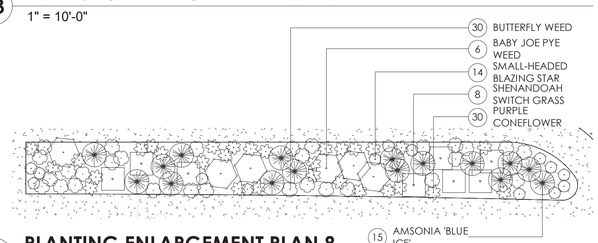
12 PLANTING ENLARGEMENT PLAN 6

1" = 10'-0"



13 PLANTING ENLARGEMENT PLAN 7

1" = 10'-0"



14 PLANTING ENLARGEMENT PLAN 8

1" = 10'-0"

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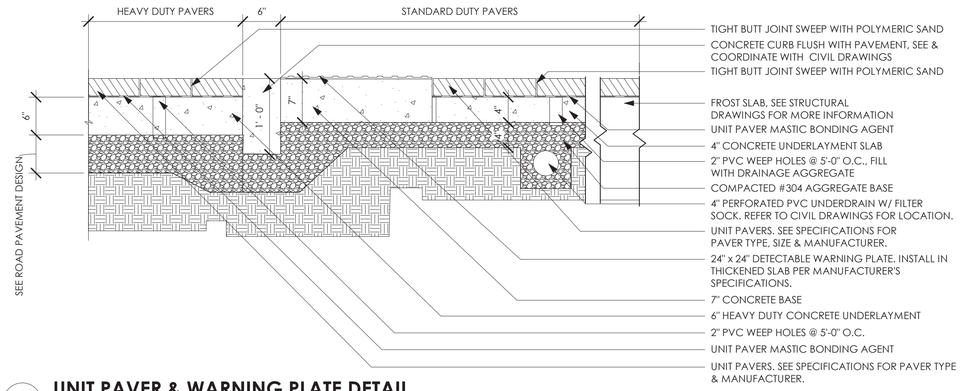
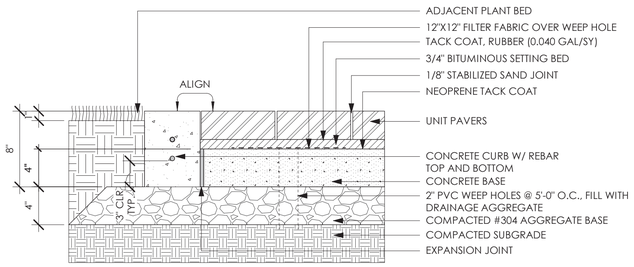
PLANTING DETAILS

SHEET NO. **L4.1**



1 UNIT PAVER & WARNING PLATE DETAIL

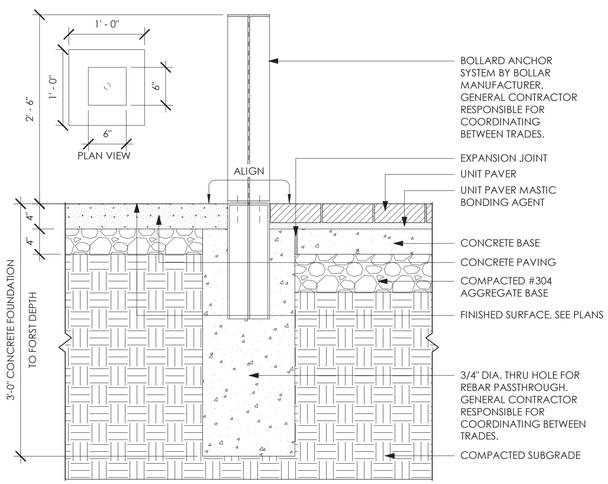
1" = 1'-0"



NOTE: CUT UNIT PAVERS AS INDICATED TO ELIMINATE SLIVERS. PAVERS EQUAL IN LENGTH TO LESS THAN 1/3 OF THE LENGTH OF A FULL PAVER WILL BE REJECTED.

2 FLUSH CONCRETE CURB - UNIT PAVER @ PLANTING DETAIL

1 1/2" = 1'-0"



NOTES:
1. MINIMUM DIMENSIONS FOR FOUNDATION SHOWN.
2. GENERAL CONTRACTOR RESPONSIBLE FOR COORDINATING BETWEEN DIFFERENT TRADES.

3 EMBEDDED BOLLARD DETAIL

1" = 1'-0"

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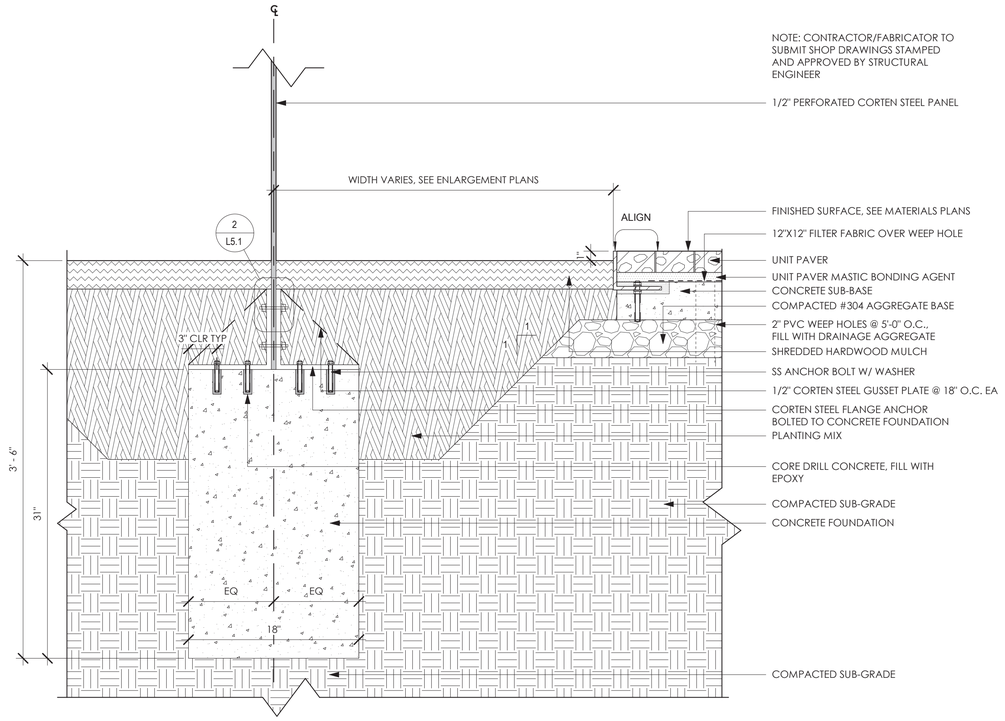
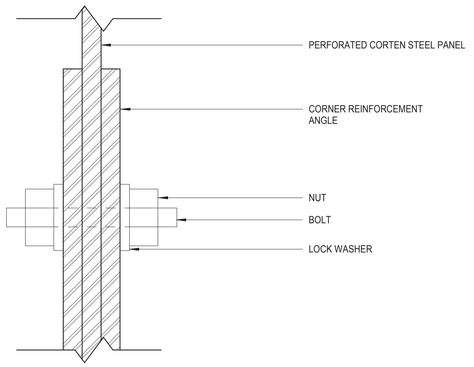
SITE DETAILS

SHEET NO.
L5.0



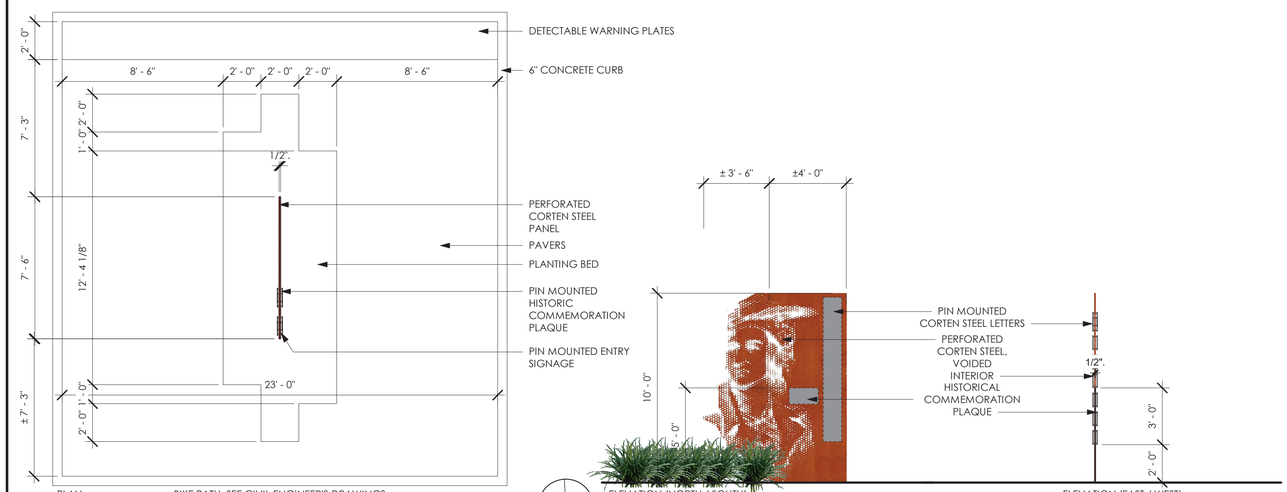
1 ENTRY FEATURE SIGNAGE @ PLANTING BED

1 1/2" = 1'-0"



2 CORTEN STEEL FLANGE ATTACHMENT ENLARGEMENT

12" = 1'-0"



3 MONUMENT SIGN OPTION 3 - HISTORIC GATEWAY

1/4" = 1'-0"

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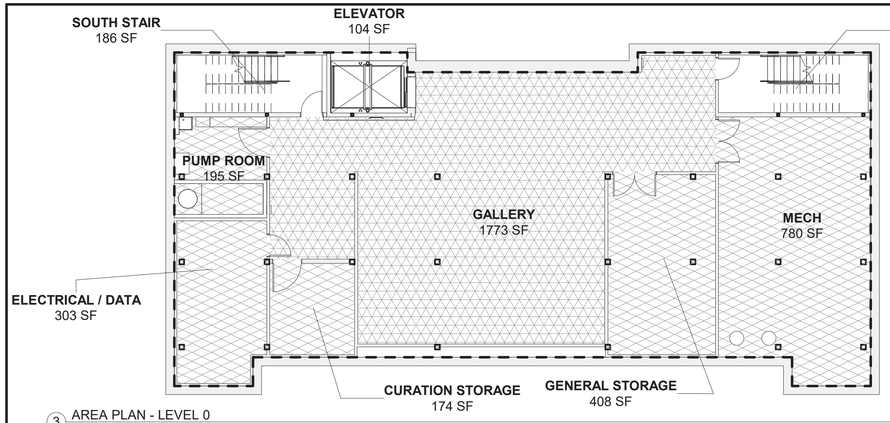
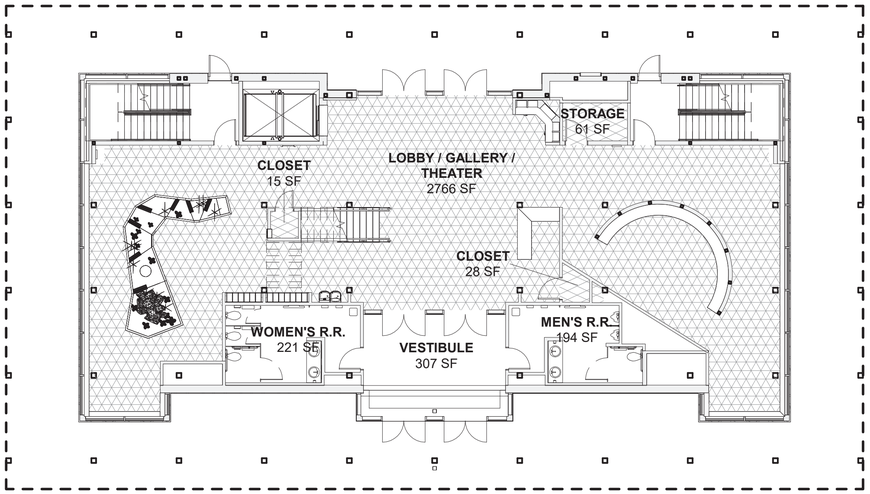
ENTRY SIGNAGE DETAILS

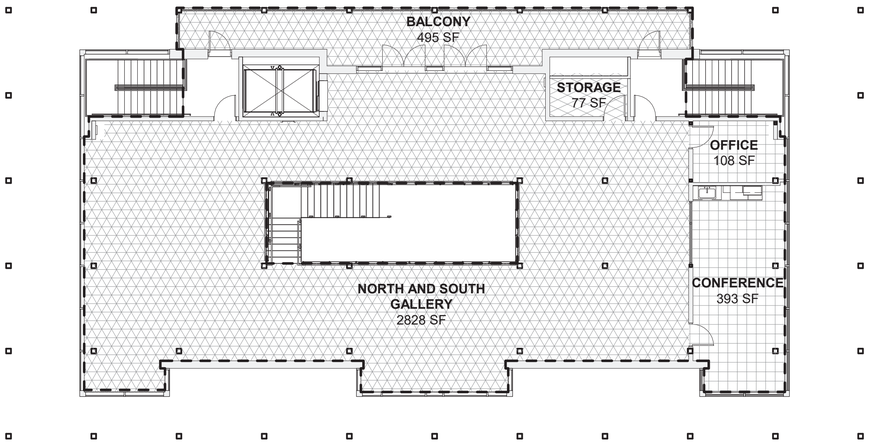
SHEET NO. **L5.1**



3 AREA PLAN - LEVEL 0
3/32" = 1'-0"



2 AREA PLAN - LEVEL 1
3/32" = 1'-0"



AREA LEGEND

- ASSEMBLY
- BUSINESS
- STORAGE / MECHANICAL
- BUILDING AREA PERIMETER

1 AREA PLAN - LEVEL 2
3/32" = 1'-0"

CODE DATA

OCCUPANCY: A-3 (ASSEMBLY GROUP) - OBC 303.4
B (BUSINESS GROUP) - OBC 304.1
S-2 (LOW-HAZARD STORAGE) - OBC 311.3

CONSTRUCTION TYPE: TYPE VB - OBC 602.5

ALLOWABLE HEIGHT ABOVE GRADE: 60'-0" (OCCUPANCY A, B, AND S, TYPE VB, S) - OBC TABLE 504.3

ACTUAL HEIGHT ABOVE GRADE: 38'-11"

ALLOWABLE STORIES ABOVE GRADE: 2 (OCCUPANCY A-3 (MOST RESTRICTIVE), TYPE VB, S) - OBC TABLE 504.4

ACTUAL STORIES: 2 ABOVE GRADE, 1 BELOW GRADE (BASEMENT)

ALLOWABLE AREA: 18,000 SF (OCCUPANCY A-3 (MOST RESTRICTIVE), TYPE VB, SM) - OBC TABLE 506.2

ACTUAL BUILDING AREA:

LEVEL 0:	4,209 SF
LEVEL 1:	8,209 SF
LEVEL 2:	4,273 SF
TOTAL:	**16,691 SF**

OBC TABLE 601 (FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS)

BUILDING ELEMENT:	TYPE VB
PRIMARY STRUCTURAL FRAME:	0-HOUR
BEARING WALLS:	
EXTERIOR:	0-HOUR
INTERIOR:	0-HOUR
NON-BEARING WALLS:	
EXTERIOR:	SEE TABLE 602
INTERIOR:	0-HOUR
FLOOR CONSTRUCTION:	0-HOUR
ROOF CONSTRUCTION:	0-HOUR

OBC TABLE 602 (FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS BASED ON FIRE SEPARATION DISTANCE)

FIRE SEPARATION DISTANCE:	TYPE OF CONSTRUCTION:	FIRE-RESISTANCE RATING:
x < 5	VB	1-HOUR
5 < x < 10	VB	1-HOUR
10 < x < 30	VB	0-HOUR
x > 30	ALL	0-HOUR

NEAREST BUILDING IS APPROXIMATELY 88' AWAY.

INTERIOR EXIT STAIRWAY CONSTRUCTION: 1-HOUR FIRE RESISTIVE RATING (CONNECTING LESS THAN 4 STORIES) - OBC 1023.2

AUTOMATIC SPRINKLER SYSTEM: AN AUTOMATIC SPRINKLER SYSTEM SHALL BE PROVIDED. - OBC 903.2.1.3

FIRE ALARM AND DETECTION SYSTEM: A FIRE ALARM SYSTEM THAT ACTIVATES UPON SPRINKLER FLOW SHALL BE PROVIDED. NO AUTOMATIC SMOKE DETECTION SYSTEM SHALL BE PROVIDED. - OBC 907.2.1

OBC TABLE 1004.1.2 MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT

TOTAL OCCUPANCY

Occupancy	Area	Area Per Occupant	Occupant Load
LEVEL 0			
ASSEMBLY	1773.49 SF	30.00 SF	60
STORAGE / MECHANICAL	1859.24 SF	300.00 SF	9
	3632.73 SF		69
LEVEL 1			
ASSEMBLY	2766.29 SF	30.00 SF	93
STORAGE / MECHANICAL	103.65 SF	300.00 SF	3
	2869.94 SF		96
LEVEL 2			
ASSEMBLY	3322.84 SF	30.00 SF	112
BUSINESS	501.07 SF	100.00 SF	6
STORAGE / MECHANICAL	76.77 SF	300.00 SF	1
	3900.68 SF		119
	10403.36 SF		284

MINIMUM REQUIRED MEANS OF EGRESS WIDTH:
STAIRWAYS: 119 X 0.3 = 35.7" - OBC 1005.3.1
MINIMUM SHALL NOT BE LESS THAN 44" - OBC 1011.2

OTHER EGRESS COMPONENTS: 119 X 0.2 = 23.8" - OBC 1005.3.2

COMMON PATH OF EGRESS TRAVEL: 75' (OCCUPANCY A (MOST RESTRICTIVE), WITH SPRINKLER SYSTEM) - OBC TABLE 1006.2.1

ACTUAL MAXIMUM COMMON PATH OF EGRESS TRAVEL: 42'

EXITS AND EXIT ACCESS DOORWAYS:

MINIMUM NUMBER OF EXITS PER STORY:	2 - OBC TABLE 1006.3.1
MINIMUM EXITS PROVIDED PER STORY:	2

EXIT ACCESS TRAVEL DISTANCE: 250' (OCCUPANCY A (MOST RESTRICTIVE), WITH SPRINKLER SYSTEM) - OBC TABLE 1017.2

ACTUAL MAXIMUM EXIT ACCESS TRAVEL DISTANCE: 67'

OBC TABLE 2901.1 (MINIMUM NUMBER OF REQUIRED PLUMBING FIXTURES)

OCCUPANCY: ASSEMBLY, A-3

DESCRIPTION: AUDITORIUMS WITHOUT PERMANENT SEATING, ART GALLERIES, EXHIBITION HALLS, MUSEUMS, LECTURE HALLS, LIBRARIES, ARCADES AND GYMNASIUMS.

MINIMUM NUMBER OF WATER CLOSETS REQUIRED:

MALE:	2 (1 PER 125)
FEMALE:	3 (1 PER 65)

NUMBER OF WATER CLOSETS PROVIDED:

MALE:	1 + 2 URINALS
FEMALE:	3

MINIMUM NUMBER OF LAVATORIES REQUIRED:

MALE:	1 (1 PER 200)
FEMALE:	1 (1 PER 200)

NUMBER OF LAVATORIES PROVIDED:

MALE:	2
FEMALE:	2

MINIMUM NUMBER OF DRINKING FOUNTAINS REQUIRED: 1 (1 PER 500)

DRINKING FOUNTAINS PROVIDED: 2

MINIMUM NUMBER OF SERVICE SINKS REQUIRED: 1

SERVICE SINKS PROVIDED: 1

CODE SYNOPSIS

ALL WORK SHALL BE IN CONFORMANCE WITH, BUT NOT LIMITED TO, THE REQUIREMENTS OF THE FOLLOWING:
AND ANY OTHER STATE AND LOCAL CODES WITH AUTHORITIES HAVING JURISDICTION.

2017 OHIO BUILDING CODE
2017 OHIO MECHANICAL CODE
2017 OHIO PLUMBING CODE
2017 OHIO FIRE CODE
2017 NATIONAL ELECTRICAL CODE (NEW) - NFPA 70
ICC A117.1-2009 ACCESSIBLE AND USEABLE BUILDINGS AND FACILITIES
2012 INTERNATIONAL ENERGY CONSERVATION CODE - ASHRAE 90.1 2010
NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 70-14)
AUTOMATIC SPRINKLER SYSTEMS (NFPA 13-10)
AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG)

SCOPE OF WORK

THE SCOPE OF THE PROJECT INCLUDES A NEW INTERPRETIVE CENTER HIGHLIGHTING THE SHAWNEE TRIBAL PARTNERS, HISTORY OF THE SITE AND AREA, AND THE SHAWNEE CULTURE AS A WHOLE. THE NEW INTERPRETIVE CENTER STRUCTURE SHALL BE A TWO-STORY ABOVE-GRADE BUILDING WITH ONE LEVEL BASEMENT BELOW GRADE. THE FACILITY SHALL HOUSE PRIMARILY GALLERY, EXHIBIT, AND DISPLAY SPACES WITH ANCILLARY CONFERENCE AND OFFICE SPACE. SITE DEVELOPMENT WORK SHALL INCLUDE AN EARTH-RETENTION SYSTEM FOR PREPARATION OF THE BASEMENT STRUCTURE, GRADING, DRAINAGE SYSTEMS, AND ASPHALT AND CONCRETE PAVING.

SPECIAL INSPECTIONS

SCOPE OF WORK INCLUDES SPECIAL INSPECTIONS.
SEE SPECIFICATIONS FOR SPECIAL INSPECTION AND DOCUMENTATION REQUIREMENTS.
SEE SPECIFICATION SECTION 01 40 00 "QUALITY REQUIREMENTS."

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

BUILDING CODE INFORMATION

SHEET NO. **A0.4**

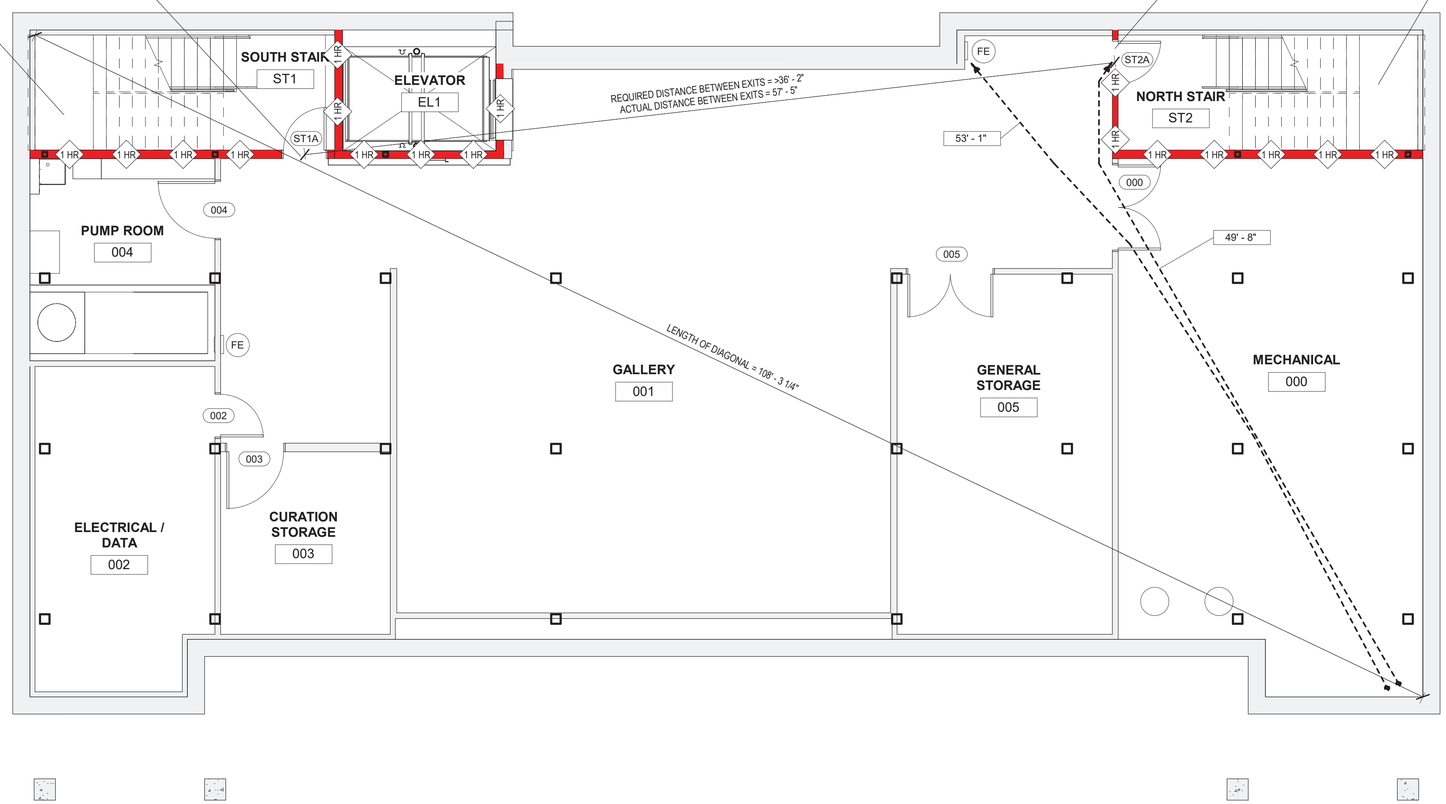
LIFE SAFETY LEGEND	
X	WALL RATING DESIGNATION
FE	FIRE EXTINGUISHER
- - - - -	PATH OF TRAVEL

EXIT DOOR ST1E		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		35 OCC

SOUTH STAIR ST-1		
CAPACITY	(44"/0.3")	146 OCC
CALCULATED OCCUPANT LOAD		35 OCC

EXIT DOOR ST2E		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		35 OCC

NORTH STAIR ST-2		
CAPACITY	(44"/0.3")	146 OCC
CALCULATED OCCUPANT LOAD		35 OCC



1 LIFE SAFETY PLAN - LEVEL 0
3/16" = 1'-0"

N

REVISIONS
06.16.2022 - CONFORMED SET

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LIFE SAFETY PLAN - LEVEL 0

SHEET NO. A0.5

LIFE SAFETY LEGEND	
X	WALL RATING DESIGNATION
FE	FIRE EXTINGUISHER
- - - -	PATH OF TRAVEL

EXIT DISCHARGE ST1B		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		111 OCC

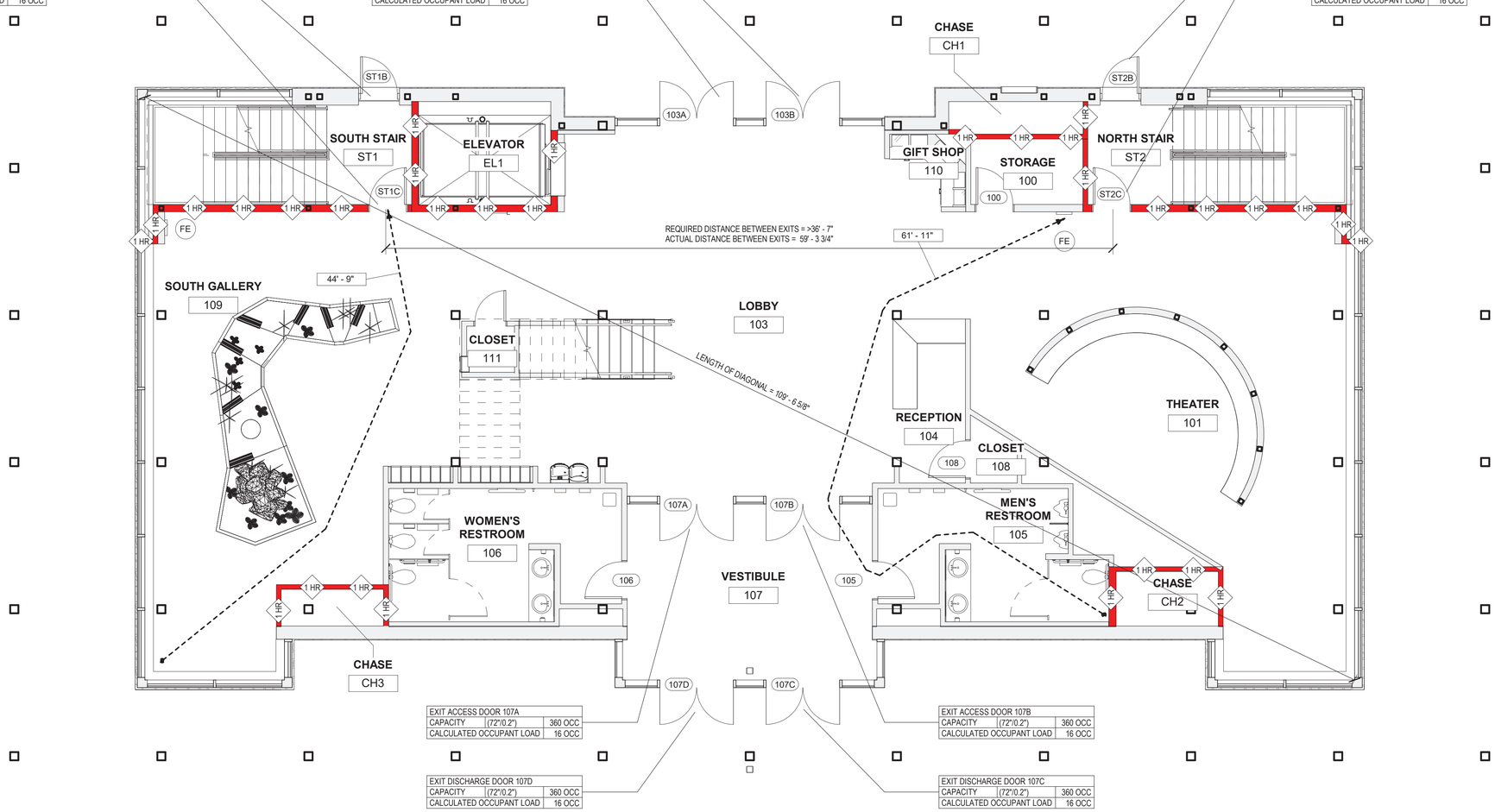
EXIT DOOR ST1A		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT DISCHARGE DOOR 103B		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT DISCHARGE DOOR 103A		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT DISCHARGE ST2B		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		111 OCC

EXIT DOOR ST2A		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		16 OCC



EXIT ACCESS DOOR 107A		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT ACCESS DOOR 107B		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT DISCHARGE DOOR 107D		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

EXIT DISCHARGE DOOR 107C		
CAPACITY	(72"/0.2")	360 OCC
CALCULATED OCCUPANT LOAD		16 OCC

1 LIFE SAFETY PLAN - LEVEL 1
3/16" = 1'-0"

N

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LIFE SAFETY PLAN - LEVEL 1

SHEET NO.
A0.6

EXIT DOOR ST1D		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		30 OCC

SOUTH STAIR ST-1		
CAPACITY	(44"/0.3")	146 OCC
CALCULATED OCCUPANT LOAD		60 OCC

EXIT DOOR ST1C		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		30 OCC

EXIT DOOR ST2D		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		30 OCC

EXIT DOOR ST2A		
CAPACITY	(36"/0.2")	180 OCC
CALCULATED OCCUPANT LOAD		30 OCC

NORTH STAIR ST-2		
CAPACITY	(44"/0.3")	146 OCC
CALCULATED OCCUPANT LOAD		60 OCC

LIFE SAFETY LEGEND

- X — WALL RATING DESIGNATION
- FE — FIRE EXTINGUISHER
- PATH OF TRAVEL

BALCONY 201

CHASE CH1

SOUTH STAIR ST1

ELEVATOR EL1

NORTH STAIR ST2

STORAGE 200

ST1D ST1E ST2D ST2E 201A 201B 200 203

1 HR FE

REQUIRED DISTANCE BETWEEN EXITS = >36' - 7"
ACTUAL DISTANCE BETWEEN EXITS = 59' - 3 3/4"

51' - 3"

SOUTH GALLERY 206

ATRIUM 204

LENGTH OF DIAGONAL = 109' - 6 5/8"

57' - 0"

NORTH GALLERY 205

OFFICE 203

CONFERENCE 202

1 LIFE SAFETY PLAN - LEVEL 2
3/16" = 1'-0"

N

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06.16.2022 - CONFORMED SET

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Ohio Department of Natural Resources

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LIFE SAFETY PLAN - LEVEL 2

SHEET NO. A0.7

Material Code	Material Type	Description / Dimensions / Color	Specification Section
ABB-1	ALUMINUM BOARD AND BATTEN FRAMING MEMBER (DECORATIVE ROOF BEAM)	1-5/8" x 8" ALUMINUM BOARD AND BATTEN FRAMING MEMBER; FASTENED TO BLOCKING ATTACHED TO NAIL BASE.	07 46 16
ABB-2	ALUMINUM BOARD AND BATTEN FRAMING MEMBER (SCREENING DEVICE)	1-5/8" x 8" ALUMINUM BOARD AND BATTEN FRAMING MEMBERS; FASTENED VERTICALLY TO ENCLOSURE TO CREATE SCREENING FOR ENCLOSURE.	07 46 16
ACT-1	ACOUSTICAL CEILING PANEL SYSTEM		09 51 13
AFS-1	NON-THERMAL ALUMINUM-FRAMED STOREFRONT SYSTEM		08 43 13
AFS-2	THERMAL ALUMINUM-FRAMED STOREFRONT SYSTEM		08 43 13
AJS-1	ACOUSTICAL JOINT SEALANT FOR EXPOSED JOINTS		07 92 19
AS-1	ALUMINUM SIDING		07 46 16
AS-2	ALUMINUM SOFFIT		07 46 16
AS-3	ALUMINUM SIDING / SOFFIT CLOSURE TRIM		07 46 16
BP-1	SPANDREL BACKPAN WITH 2" MINERAL WOOL INSULATION		
CA-1	CLIP ANGLE	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	STRUCTURAL
CH-1	TASK CHAIR		12 59 13
CH-2	GUEST CHAIR		12 59 13
CH-3	MULTI-STACK CHAIR		12 59 13
CONC-1	5" THICK CONCRETE SLAB-ON-GRADE	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 30 00
CONC-2	3-1/2" THICK CONCRETE ELEVATED SLAB OVER 1-1/2" METAL DECK	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 30 00
CONC-3	CONCRETE FOUNDATION	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 30 00
CSA-1	CUSTODIAL MOP AND BROOM HOLDER		10 28 00
CW-1	GLAZED ALUMINUM CURTAIN WALL SYSTEM TYPE 1		08 44 13
DEK-1	1-1/2" STEEL DECKING		05 31 00
DFT-1	DEFLECTION TRACK	DEFLECTION TRACK WITH 3" LEG; DEFLECTION TRACK SHALL MATCH ADJACENT METAL STUD PROPERTIES.	09 22 16
DH-1	DOOR SILL	REFER TO DOOR HARDWARE SCHEDULE FOR ADDITIONAL INFORMATION; REFER TO SPECIFICATIONS FOR REQUIREMENTS.	08 71 00
DMR-1	DECORATIVE METAL RAILING	STAINLESS STEEL CABLE RAILING SYSTEM.	05 73 00
DMR-2	GLAZED STAINLESS STEEL DECORATIVE METAL RAILING	GLAZED STAINLESS STEEL DECORATIVE METAL RAILING.	05 73 13
DS-1	CORRUGATED RECTANGULAR METAL DOWNSPOUT		07 71 00
EDS-1	ALUMINUM-FRAMED ENTRANCE DOOR SYSTEM		08 42 13
EL-1	MACHINE-ROOM-LESS HYDRAULIC SERVICE ELEVATOR		14 24 00
ES-1	FLOOR-TO-WALL EDGE STRIP		09 30 13
ES-2	INSIDE CORNER EDGE STRIP		09 30 13
ES-3	OUTSIDE CORNER EDGE STRIP		09 30 13
FC-1	FLUTE COVER		09 21 16
FE-1	FIRE EXTINGUISHER		10 44 16
FL-1	STAINLESS STEEL EMBEDDED FLASHING	STAINLESS STEEL EMBEDDED FLASHING;	04 43 13
FPC-1	FIRE-PROTECTION CABINET		10 44 13
FR-1	CHEST FREEZER	FREE-STANDING; APPROXIMATELY 34" WIDE x 24" DEEP x 34" HIGH; PROVIDE STANDARD ELECTRICAL OUTLET; REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.	11 30 13
FRM-1	1-5/8" COLD-FORMED METAL STUD FRAMING		05 40 00
FRM-2	3-5/8" COLD-FORMED METAL STUD FRAMING		05 40 00
FRM-3	6" COLD-FORMED METAL STUD FRAMING		05 40 00
FRM-4	8" COLD-FORMED METAL STUD FRAMING		05 40 00
FRP-1	FIBER-GLASS-REINFORCED PLASTIC PANELING		06 64 00
FT-1	FIRESTOP TRACK (TO FLAT DECK)		09 21 16
FWD-1	FLUSH WOOD DOOR TYPE 1		08 14 16
FWS-1	LEFT PEDESTAL WORKSTATION DESK		12 59 13
FWS-2	RIGHT PEDESTAL WORKSTATION DESK		12 59 13
GB-1	5/8" THICK TYPE X GYPSUM BOARD		09 29 00
GB-2	5/8" THICK TYPE X MOLD-RESISTANT GYPSUM BOARD		09 29 00
GB-3	5/8" THICK GLASS-MAT, WATER-RESISTANT BACKING BOARD		09 29 00
GL-1	BIRD-FRIENDLY 1-INCH INSULATED GLAZING		08 80 00
GL-2	1-INCH INSULATED SPANDREL GLAZING		08 80 00
GL-3	MONOLITHIC 1/4-INCH GLAZING		08 80 00
GL-4	1-INCH INSULATED SKYLIGHT GLAZING		08 80 00
GRAV-1	AGGREGATE BASE / GRAVEL INFILL	REFER TO STRUCTURAL / CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.	STRUCTURAL CIVIL
GSB-1	GYPSUM SHAFTLINER BOARD		09 21 16
GSS-1	GRID SUSPENSION SYSTEM FOR GYPSUM BOARD CEILINGS		09 22 16
GT-1	EPOXY GROUT		09 30 13
GUT-1	GUTTER		07 71 00
HC-1	7/8-INCH HAT-SHAPED RIGID FURRING CHANNEL		09 22 16
HMF-1	HOLLOW METAL FRAME TYPE 1		08 12 13
HPNT-1	HIGH-PERFORMANCE PAINT TYPE 1	BASIS-OF-DESIGN COLOR: "BROWN" / "BRONZE"	09 96 00
IPNT-1	INTERIOR WATER-BASED LATEX PAINT OVER SUBSTRATE.	BASIS-OF-DESIGN COLOR: "WHITE"	09 91 23
IPNT-2	INTERIOR WATER-BASED LATEX PAINT OVER SUBSTRATE.	BASIS-OF-DESIGN COLOR: "TAN"	09 91 23
JS-1	NON-TRAFFIC-RATED URETHANE JOINT SEALANT.		07 92 00
JS-2	TRAFFIC-RATED URETHANE JOINT SEALANT.		07 92 00

Material Code	Material Type	Description / Dimensions / Color	Specification Section
JS-3	SILICONE MILDEW-RESISTANT JOINT SEALANT		07 92 00
JS-4	BUTYL JOINT SEALANT		07 92 00
JS-5	LATEX JOINT SEALANT		07 92 00
LK-1	TWO-TIER PERSONNEL LOCKERS		10 51 13
MAB-1	FLUID-APPLIED MEMBRANE AIR BARRIER		07 27 26
MC-1	MULLION COVER	1-HOUR RATED MULLION COVER MATCHING CURTAIN WALL FINISH.	09 84 54
MDP-1	MOLDED-SHEET DRAINAGE PANELS	COMPOSITE MOLDED-SHEET DRAINAGE PANELS INSTALLED OVER SHEET WATERPROOFING; CONTRACT SHALL INSTALL INSULATION OR PROTECTION COURSE PRIOR TO INSTALLING DRAINAGE PANELS.	07 13 26
ML-1	EXPANDED METAL LATH	GALVANIZED METAL LATH;	04 43 13
MO-1	MICROWAVE OVEN		11 30 13
MOR-1	STONE MORTAR		04 43 13
MOR-2	TILE SETTING EPOXY		09 30 13
MPS-1	METAL PAN STAIR		05 51 13
NIP-1	COMPOSITE NON-VENTED NAILBASE INSULATION PANELS.	COMPRISED OF 1/2" PLYWOOD SHEATHING OVER 2" OF POLYISOCYANURATE; INSTALLED OVER 2-1/2" OF POLYISOCYANURATE INSULATION ; STAGGER PANEL JOINTS FROM BASE LAYER OF INSULATION.	07 22 00
NOS-1	2" WIDE ALUMINUM STAIR NOSING FOR CAST-IN-PLACE CONCRETE STAIRS	2-INCH WIDE ALUMINUM STAIR NOSING CAST INTO CAST-IN-PLACE STAIR.	05 50 00
NOS-2	2" WIDE ALUMINUM STAIR NOSING FOR METAL PAN STAIRS	2-INCH WIDE ALUMINUM STAIR NOSING CAST INTO CONCRETE-FILLED METAL PAN STAIRS.	05 51 13
PD-1	PERIMETER DRAIN	REFER TO CIVIL DRAWINGS FOR ADDITIONAL INFORMATION; REFER TO SPECIFICATION SECTION 33 40 00 FOR REQUIREMENTS.	PLUMBING
PDB-1	DRAINAGE BASIN		
PFJ-1	PREFABRICATED FIRE-RATED JOINTS		09 21 16
PL-1	PLASTIC-LAMINATE-CLAD BASE CABINETS		12 32 16
PL-2	PLASTIC-LAMINATE-CLAD WALL CABINETS		12 32 16
PL-3	PLASTIC-LAMINATE-CLAD RECEPTION DESK		12 32 16
PL-4	PLASTIC-LAMINATE-CLAD GIFT SHOP CASEWORK		12 32 16
PL-5	PLASTIC-LAMINATE-CLAD STORAGE CUBBIES		12 32 16
POL-1	POLISHED CONCRETE	BASIS-OF-DESIGN COLOR: "LIGHT TAN."	03 35 54
PPB-1	PUSH PLATE BOLLARD		
PSS-1	PLASTIC SYNTHETIC SHINGLES		07 31 53
PT-1	PORCELAIN TILE		09 30 13
PTC-1	SOLID-PLASTIC TOILET COMPARTMENT		10 21 13
PTC-1A	SOLID-PLASTIC URINAL SCREEN		10 21 13
RAS-1	RAINSCREEN ATTACHMENT SYSTEM		07 48 00
RB-1	4" HIGH RESILIENT BASE		09 65 13
RF-1	BUILT-IN UNDERCOUNTER REFRIGERATOR		11 30 13
RFC-1	RESILIENT FURRING CHANNELS		09 22 16
RWS-1	ROLLER WINDOW SHADES		12 24 13
SG-1	SNOW GUARDS		07 72 53
SH-1	5/8" THICK GLASS-MAT GYPSUM SHEATHING		06 16 00
SH-2	5/8" THICK CEMENTITIOUS BACKER UNITS		06 16 00
SH-3	5/8" THICK FIRE-RETARDENT TREATED PLYWOOD SHEATHING		06 16 00
SH-4	1/2" THICK PRESERVATIVE TREATED PLYWOOD SHEATHING	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	06 16 00
SKY-1	METAL-FRAMED SKYLIGHTS		08 63 00
SSC-1	SOLID SURFACE COUNTERTOP	SOLID SURFACE COUNTERTOPS AT CONFERENCE ROOM CASEWORK.	12 36 61
SSC-2	SOLID SURFACE COUNTERTOP	SOLID SURFACE COUNTERTOPS AT RESTROOM LAVATORIES.	12 36 61
SSC-3	SOLID SURFACE COUNTERTOP	SOLID SURFACE COUNTERTOPS AT RECEPTION DESK	12 36 61
SSC-4	SOLID SURFACE COUNTERTOP	SOLID SURFACE COUNTERTOPS AT GIFT SHOP CASEWORK	12 36 61
SSC-5	SOLID SURFACE SHELVES	SOLID SURFACE CUBBY SHELVES	12 36 61
SSC-6	SOLID SURFACE WINDOW SILLS	SOLID SURFACE WINDOW SILLS	12 36 61
SST-1	STRUCTURAL STEEL	TO BE PAINTED WITH HIGH-PERFORMANCE EPOXY PAINT; REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	STRUCTURAL
ST-1	ADHERED STONE MASONRY VENEER	ADHERED STONE MASONRY VENEER; APPLY CEMENTITIOUS DAMPPROOFING TO STONE AT GRADE AND STONE EXTENDING BELOW GRADE PER SPECIFICATIONS.	04 43 13
STA-1	STONE TRIM ANCHOR	STAINLESS STEEL STONE TRIM ANCHOR.	04 43 13
STN-1	INTERIOR AND EXTERIOR SEMI-TRANSPARENT WATER-BASED WOOD STAIN.	BASIS-OF-DESIGN COLOR: "GOLDEN HONEY".	09 93 00
STS-1	STONE SILL		04 43 13
SU-1	CLASS A UNDERLAYMENT BY ROOFING MANUFACTURER.	INSTALL OVER ENTIRE ROOF AREA OVER MANUFACTURER'S APPROVED SELF-ADHERING SHEET UNDERLAYMENT.	07 31 53
SU-2	SELF-ADHERING SHEET UNDERLAYMENT BY ROOFING MANUFACTURER.		07 31 53
SW-1	SELF-ADHERING SHEET WATERPROOFING	MODIFIED BITUMINOUS SELF-ADHERING SHEET WATERPROOFING OVER CONCRETE FOUNDATION WALL.	07 13 26
SW-2	BLINDSIDE SHEET WATERPROOFING	BLINDSIDE SHEET WATERPROOFING OVER 6" AGGREGATE BASE.	07 13 26
SWC-1	SUSPENDED WOOD CEILING SYSTEM		09 54 26
TA-1	MIRROR	SURFACE-MOUNTED.	10 28 00
TA-10	SANITARY NAPKIN DISPOSAL	SURFACE-MOUNTED.	10 28 00
TA-11	COAT HOOK	SURFACE-MOUNTED.	10 28 00
TA-12	COMBINATION PAPER TOWEL DISPENSER AND TRASH RECEPTACLE	RECESSED.	10 28 00
TA-2	AUTOMATIC SOAP DISPENSER	SURFACE-MOUNTED.	10 28 00
TA-3	WASTE RECEPTACLE	FREESTANDING UNIT.	10 28 00
TA-4	INFANT CHANGING STATION	SURFACE-MOUNTED.	10 28 00
TA-5	PAPER TOWEL DISPENSER	SURFACE-MOUNTED.	10 28 00
TA-6	36" GRAB BAR		10 28 00
TA-7	18" GRAB BAR		10 28 00
TA-8	42" GRAB BAR		10 28 00
TA-9	TOILET TISSUE DISPENSER		10 28 00

Material Code	Material Type	Description / Dimensions / Color	Specification Section
TB-1	HUDDLE TABLE		12 59 13
TB-2	CONFERENCE TABLE		12 59 13
TBK-1	2" FIBERGLASS THERMAL BREAK	REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	STRUCTURAL
TF-1	URINAL	REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.	PLUMBING
TF-2	WATER CLOSET	REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.	PLUMBING
TF-3	MOP SINK	REFER TO PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION.	PLUMBING
TI-1	2" THICK EXTRUDED POLYSTYRENE INSULATION		07 21 00
TI-2	2-1/2" THICK POLYISOCYANURATE INSULATION		07 21 00
TI-3	GLASS-FIBER BLANKET INSULATION		07 21 00
TI-4	SOUND-ATTENUATION MINERAL-WOOL BLANKET INSULATION	SOUND-ATTENUATION MINERAL-WOOL BLANKET INSULATION; FULL DEPTH OF CAVITY.	07 21 00
TI-5	2" THICK POLYISOCYANURATE INSULATION		07 21 00
UG-1	UNDERLAVATORY GUARD	INSTALL UNDERLAVATORY GUARDS AT ALL LAVATORY PIPING EXPOSED TO VIEW.	10 28 00
US-1	UTILITY SHELVING	UTILITY SHELVING WITH STAINLESS STEEL SHELVES ON STANDARDS AND BRACKETS.	06 20 23
VR-1	MODIFIED BITUMINOUS VAPOR RETARDER BY ROOFING MANUFACTURER.		07 31 53
VST-1	VERTICAL STORAGE TANKS		43 41 43
WB-1	WEATHER BARRIER		07 25 00
WBL-1	PRESERVATIVE-TREATED WOOD BLOCKING	ALL WOOD BLOCKING SHALL BE IN COMPLIANCE WITH SPECIFICATION SECTION INDICATED.	06 10 00
WBR-1	7-GALLON DESK-SIDE WASTE RECEPTACLE		12 59 13
WBR-2	35-GALLON WASTE RECEPTACLE		12 59 13
WEP-1	WICKING MATERIAL	1/4-INCH TO 3/8-INCH DIAMETER WICKING MATERIAL AT 24-INCHES ON CENTER.	04 43 13
WPS-1	STAINLESS STEEL WEEP SCREED		04 43 13
WRD-1	2-5/8" PRESERVATIVE-TREATED TONGUE AND GROOVE WOOD ROOF DECKING		06 15 16
WS-1	CHEMICAL-RESISTANT WATERSTOP	CHEMICAL-RESISTANT WATERSTOP; FOUNDATION-TO-WALL; REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 10 00
WS-2	CHEMICAL-RESISTANT WATERSTOP	CHEMICAL-RESISTANT WATERSTOP; SLAB-TO-SLAB OR SLAB-TO-SUB-SLAB; REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 10 00
WS-3	CHEMICAL-RESISTANT WATERSTOP	CHEMICAL-RESISTANT WATERSTOP; WALL-TO-SLAB; REFER TO STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.	03 10 00

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HISTORIC OLDTOWN
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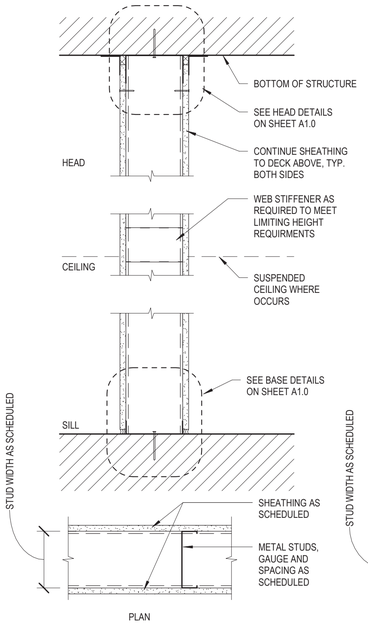
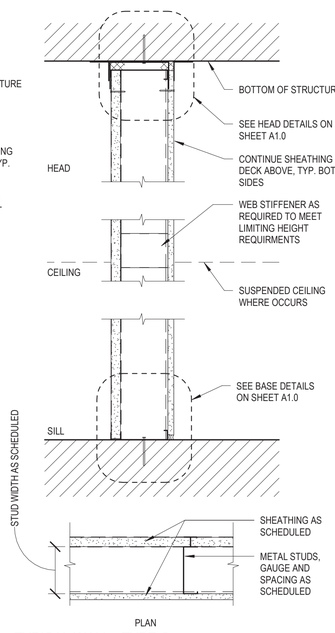
DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	12" = 1'-0"
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

MATERIAL CODES

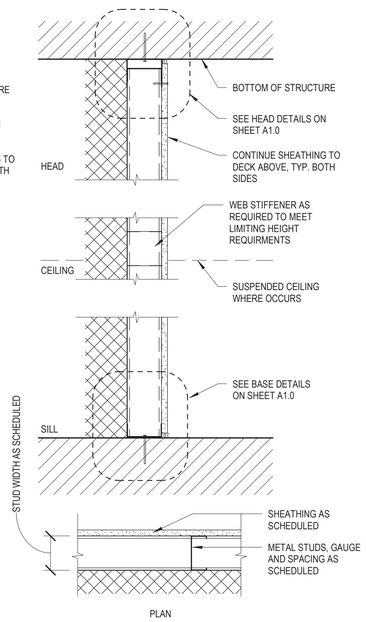
SHEET NO. **A0.9**



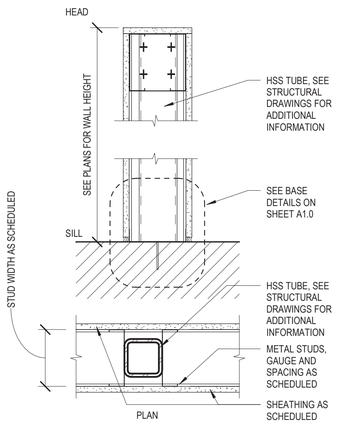
5 TYPICAL WALL - TYPE A
1 1/2" = 1'-0"



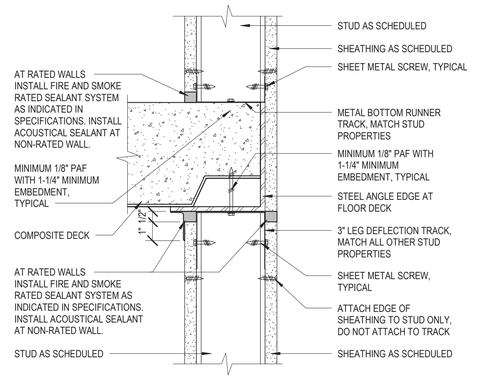
4 TYPICAL WALL - TYPE C
1 1/2" = 1'-0"



3 TYPICAL WALL - TYPE F
1 1/2" = 1'-0"



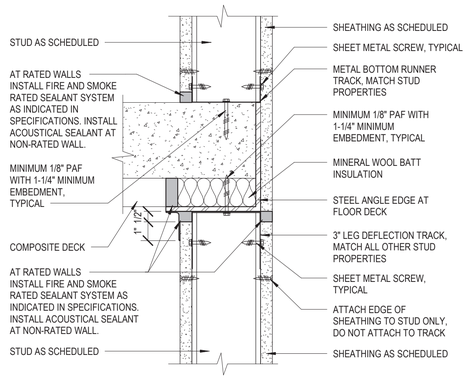
7 TYPICAL WALL - TYPE P
1 1/2" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

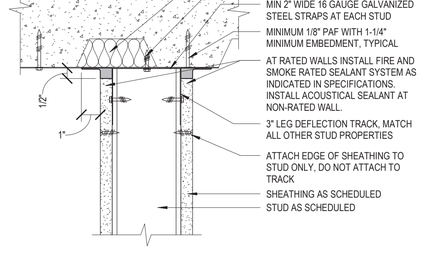
11 TYP PTN AT SLAB EDGE 2
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

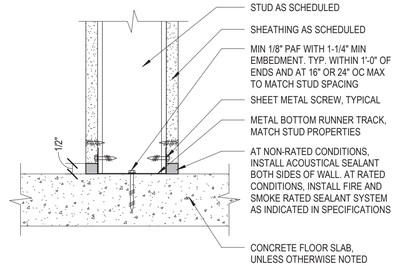
10 TYP PTN AT SLAB EDGE 1
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

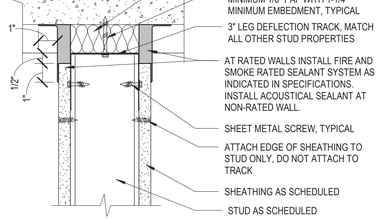
2 TYP GWB PTN HEAD PARALLEL TO METAL DECK
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

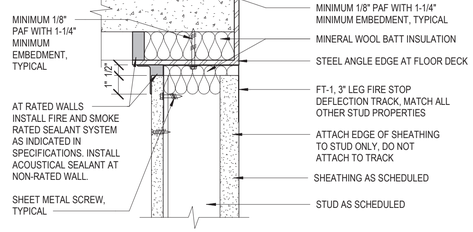
6 TYP GWB PTN BASE
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

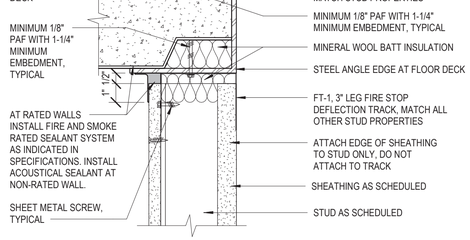
1 TYP PTN HEAD PERPENDICULAR TO METAL DECK
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

8 TYP SHAFT WALL AT SLAB EDGE 1
3" = 1'-0"



SEE PLANS FOR PARTITION TYPES

PROVIDE UL ASSEMBLES FOR ENGINEERED SYSTEM AT ALL RATED PARTITIONS

9 TYP SHAFT WALL AT SLAB EDGE 2
3" = 1'-0"

GENERAL NOTES

PROVIDE MIL THICKNESS AS REQUIRED TO MEET LIMITING HEIGHT CRITERIA AS "COMPLETE ASSEMBLY"

DEFLECTION TO BE BASED ON L/240 UNLESS OTHERWISE NOTED. FOR TILE, STONE, ELEVATOR WALL, ETC., SEE SPECIFICATION FOR DEFLECTION REQUIREMENTS.

UL RATING CHART

WALL TYPE	RATING	UL DESIGN
ALL	NON RATED	N/A
A	1, 2, 3, OR 4 HR	U419
C	1, 2, 3, OR 4 HR	U415

NOTE: INSTALL ALL APPLICABLE ELEMENTS LISTED WITHIN THE UL DESIGN AS REQUIRED TO MATCH THE REQUIRED WALL RATING.

STUD WIDTH LEGEND

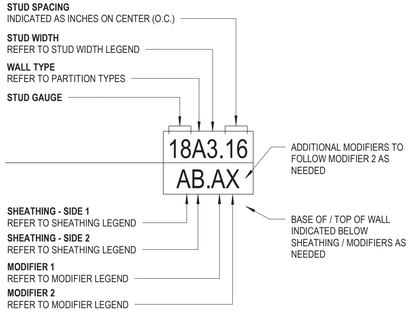
TAG	WIDTH
0	7/8"
1	1-5/8"
2	2-1/2"
3	3-5/8"
4	4"
5	5-1/2"
6	6"
8	8"

SHEATHING LEGEND

TYPE	DESCRIPTION
A	GB-1 (5/8" TYPE 'X' GYPSUM BOARD)
B	NOT USED
C	NOT USED
D	NOT USED
E	NOT USED
F	GB-2 (5/8" MOLD-RESISTANT TYPE 'X' GYPSUM BOARD)
G	GB-3 (5/8" GLASS-MAT, WATER RESISTANT TYPE 'X' GYPSUM BOARD)
H	GSB-1 (1" MOLD-RESISTANT TYPE 'X' GYPSUM LINER PANEL)
J	NOT USED
K	GB-3 (5/8" GLASS-MAT, WATER RESISTANT TYPE 'X' BACKING PANEL)
L	NOT USED
M	GB-4 (1/4" FLEXIBLE GYPSUM BOARD)
N	NOT USED
P	SH-3 (5/8" FIRE-RETARDENT TREATED PLYWOOD SHEATHING
Q	NOT USED
R	NOT USED
S	NOT USED
T	NOT USED
U	NOT USED
V	NOT USED
W	NOT USED
X	NO SHEATHING
Y	NOT USED
Z	NOT USED

MODIFIER LEGEND

TYPE	DESCRIPTION
A	NOT USED
B	NOT USED
C	NOT USED
D	NOT USED
E	1 HOUR RATED FIRE BARRIER
F	NOT USED
G	NOT USED
H	NOT USED
J	NOT USED
K	NOT USED
L	NOT USED
M	NOT USED
N	1 LAYER OF SH-3 ON 1 SIDE OF WALL UNDER INDICATED SHEATHING
P	NOT USED
Q	NOT USED
R	NOT USED
S	TI-4 (SOUND-ATTENUATION MINERAL-WOOL BLANKET INSULATION)
T	NOT USED
U	NOT USED
V	NOT USED
W	NOT USED
X	NO MODIFIER
Y	NOT USED
Z	NOT USED



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HISTORIC OLDTOWN
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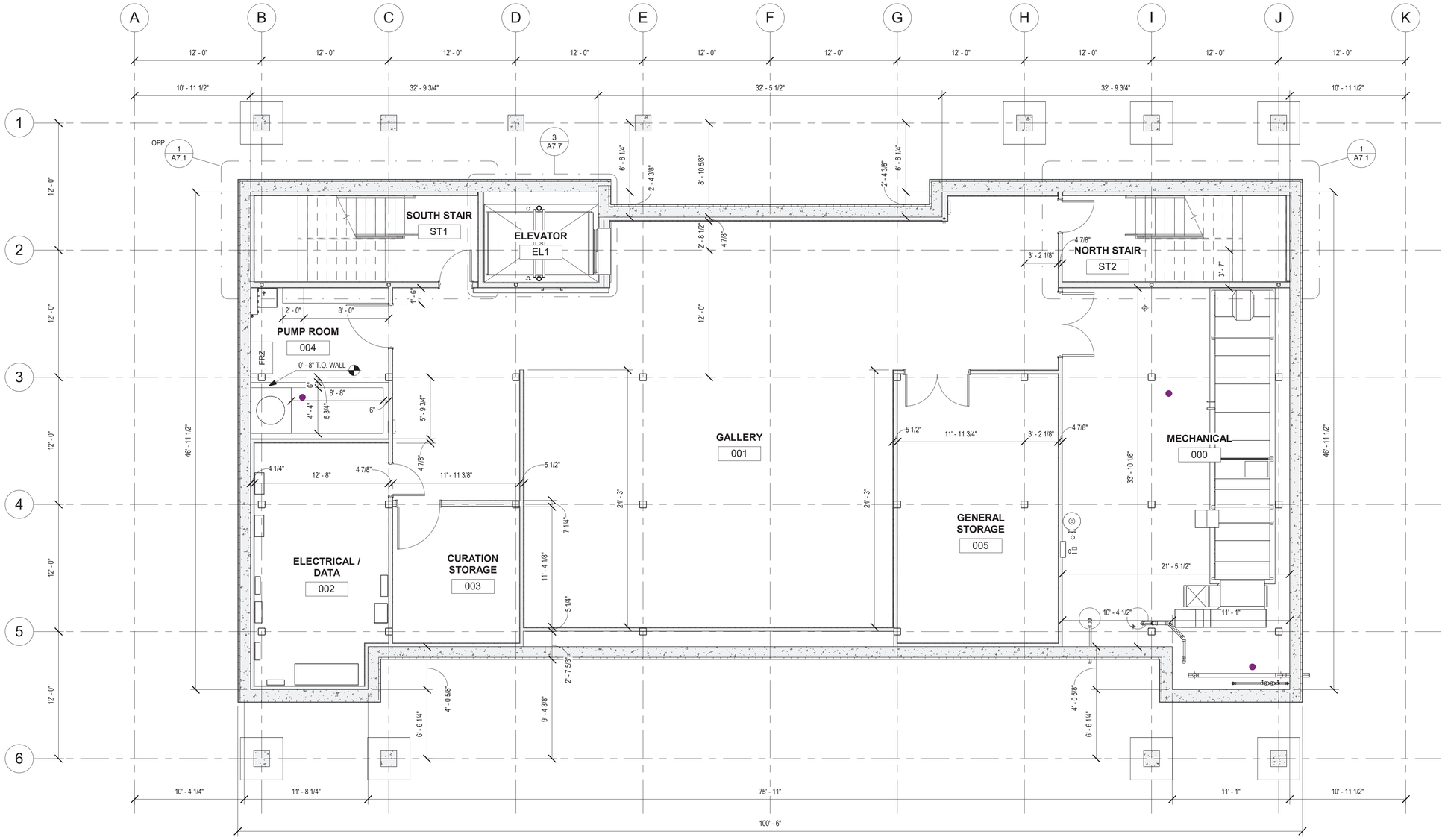
WALL SCHEDULE

SHEET NO. A1.0



1 DIMENSION FLOOR PLAN - LEVEL 0
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ELECTRICAL, MECHANICAL, TECHNOLOGY, AND FIRE ALARM SYSTEMS, FIXTURES, AND EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND OTHER COMPONENTS OF WORK.
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. ALL SURFACES SHALL BE ALIGNED.
7. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
8. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHALL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY
9. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
10. ALL LEVEL 1 AND 2 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE EXTERIOR FACE OF AS-1 OR CW-1. ALL LEVEL 0 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE INTERIOR FACE OF CONCRETE.
11. ALL PARTITIONS ARE DIMENSIONED FROM FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS NOTED "CLEAR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
12. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

N

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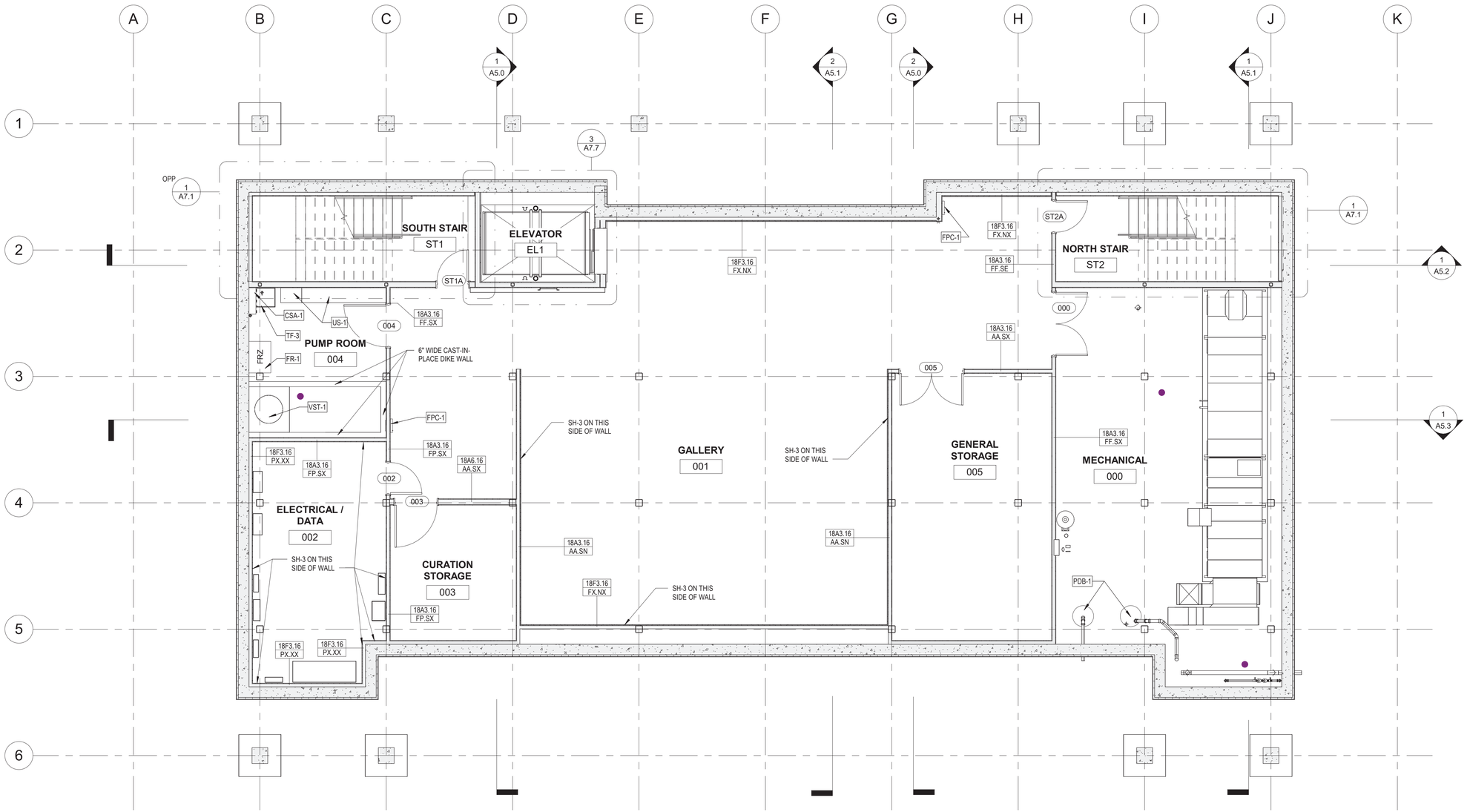
DIMENSION FLOOR PLAN - LEVEL 0

SHEET NO.
A1.1



N

1 CALLOUT FLOOR PLAN - LEVEL 0
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
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5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. ALL SURFACES SHALL BE ALIGNED.
7. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
8. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHALL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY
9. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
10. ALL LEVEL 1 AND 2 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE EXTERIOR FACE OF AS-1 OR CW-1. ALL LEVEL 0 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE INTERIOR FACE OF CONCRETE.
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12. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

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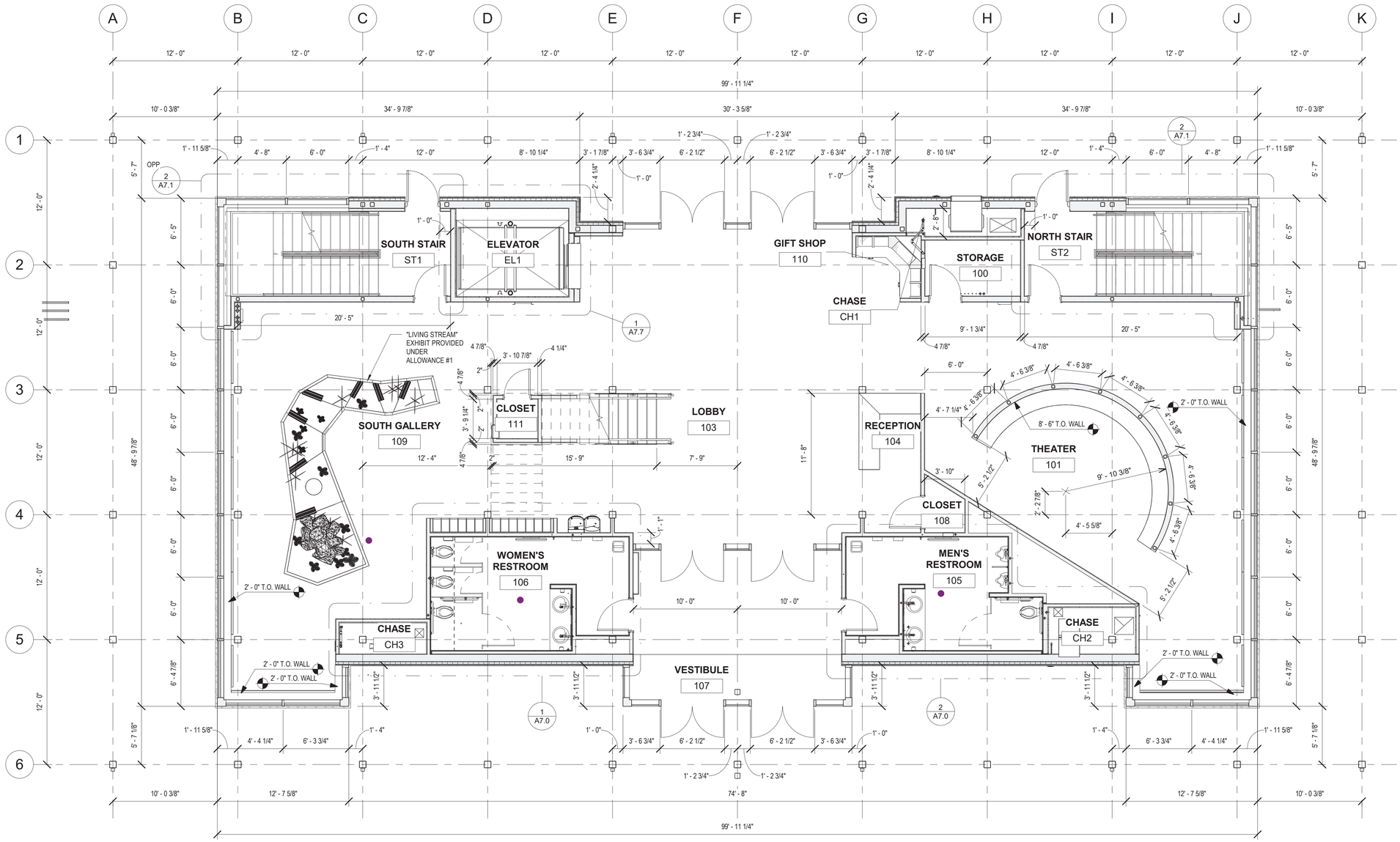
CALLOUT FLOOR PLAN - LEVEL 0

SHEET NO. **A1.2**



N

1 DIMENSION FLOOR PLAN - LEVEL 1
3/16" = 1'-0"

GENERAL NOTES

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13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

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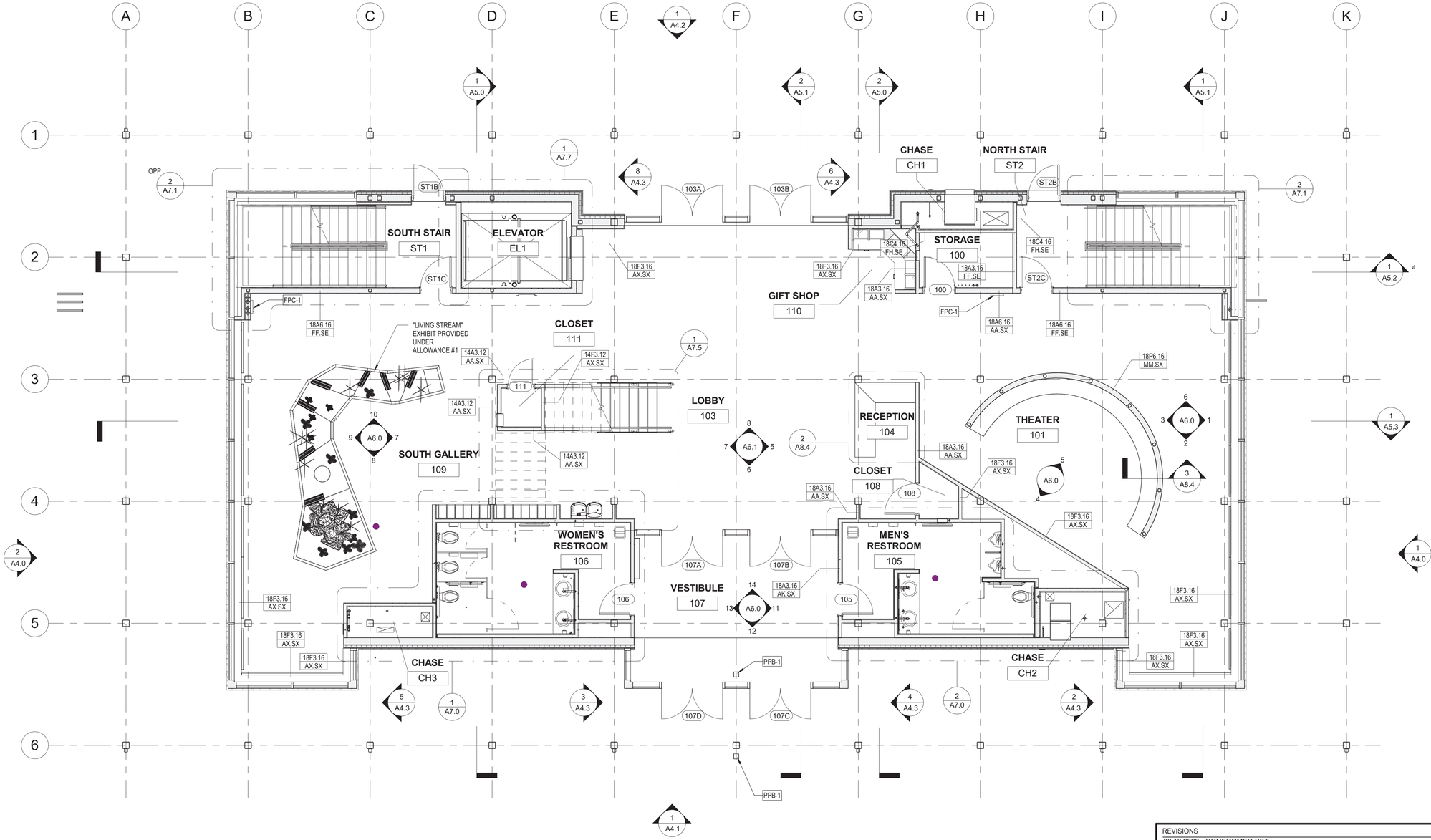
DIMENSION FLOOR PLAN - LEVEL 1

SHEET NO.
A1.3



1 CALLOUT FLOOR PLAN - LEVEL 1
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13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

N

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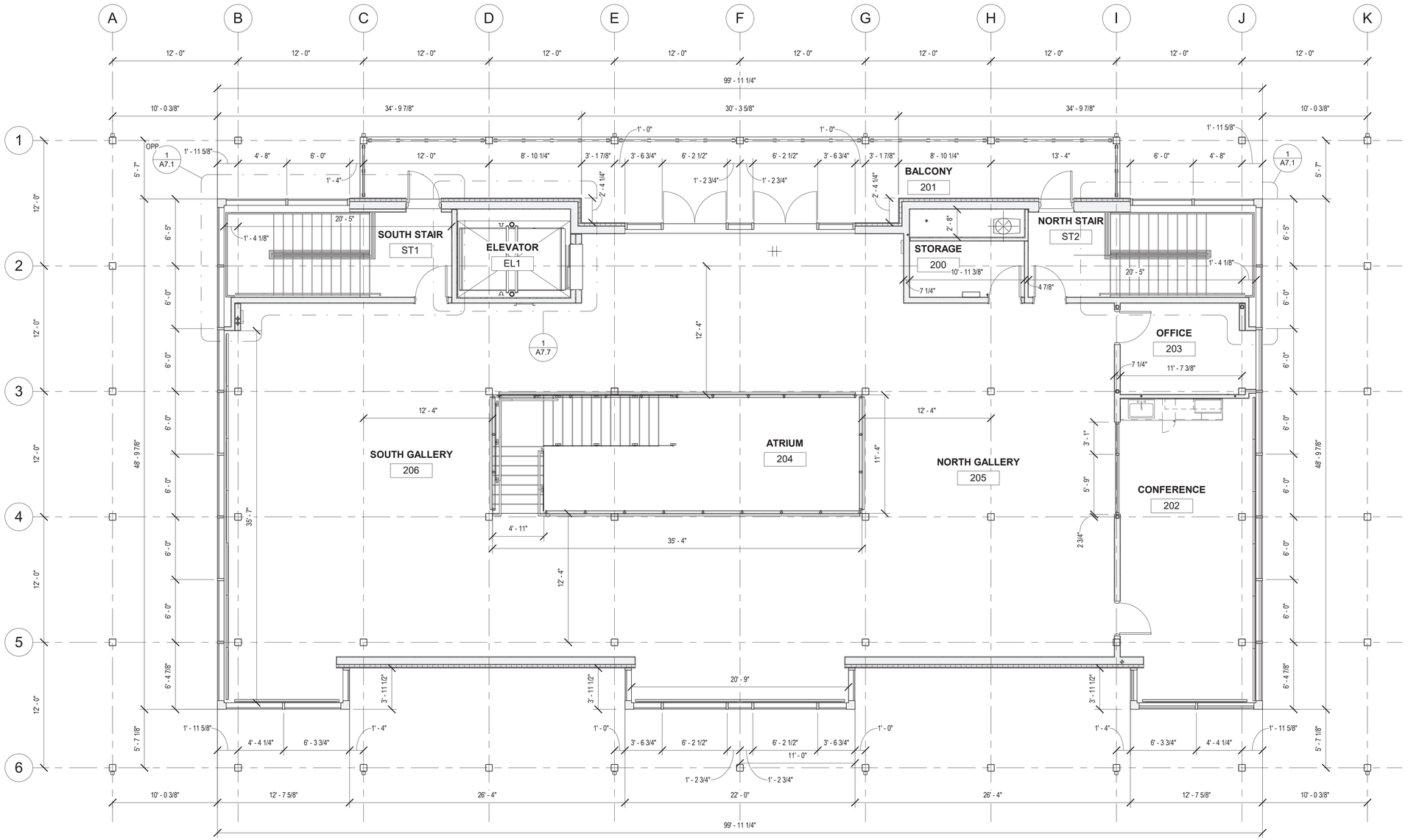
CALLOUT FLOOR PLAN - LEVEL 1

SHEET NO. **A1.4**



1 DIMENSION FLOOR PLAN - LEVEL 2
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ELECTRICAL, MECHANICAL, TECHNOLOGY, AND FIRE ALARM SYSTEMS, FIXTURES, AND EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND OTHER COMPONENTS OF WORK.
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. ALL SURFACES SHALL BE ALIGNED.
7. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
8. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHALL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY
9. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
10. ALL LEVEL 1 AND 2 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE EXTERIOR FACE OF AS-1 OR CW-1. ALL LEVEL 0 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE INTERIOR FACE OF CONCRETE.
11. ALL PARTITIONS ARE DIMENSIONED FROM FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS NOTED "CLEAR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
12. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

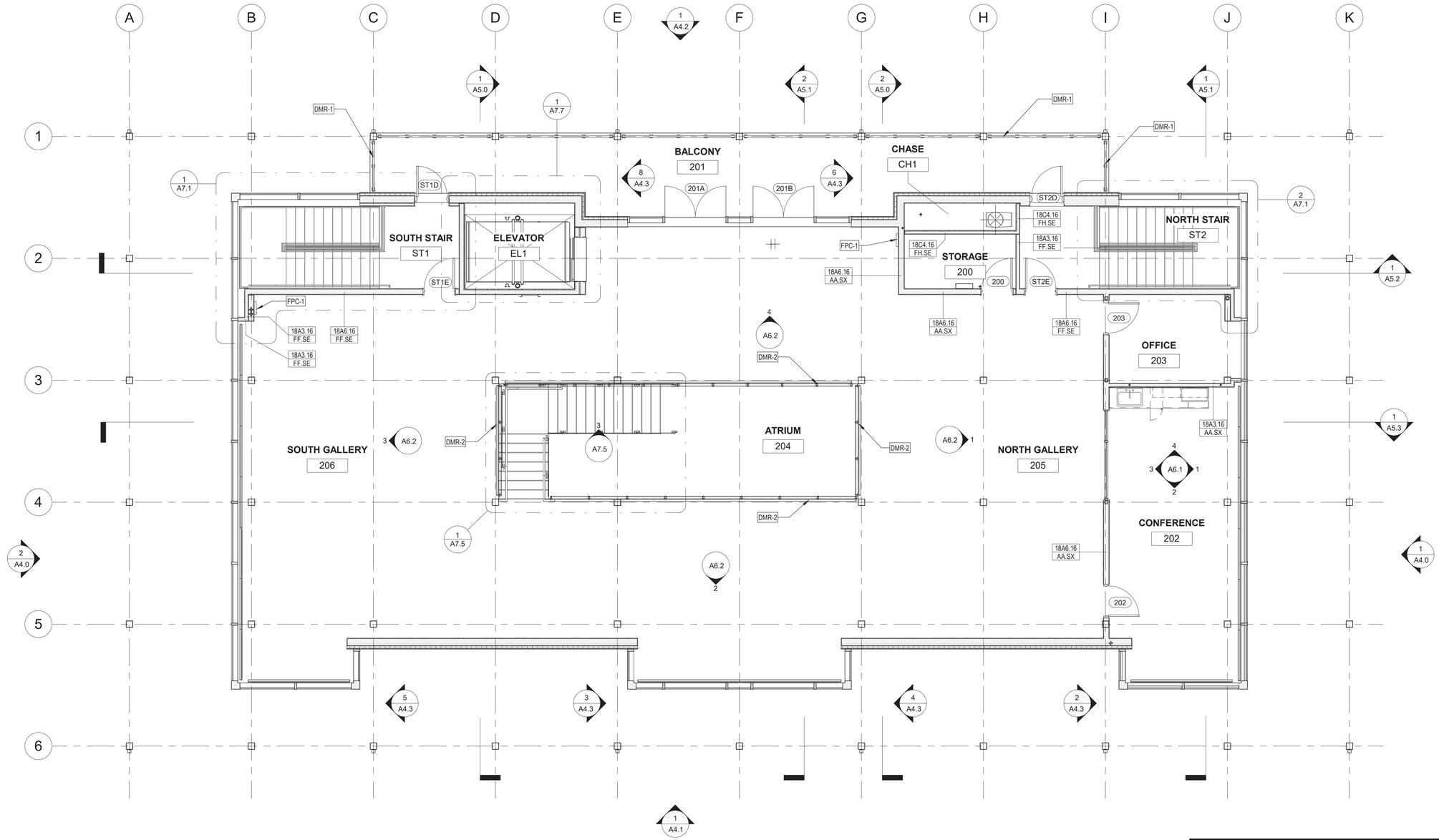
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

DIMENSION FLOOR PLAN - LEVEL 2

SHEET NO.
A1.5



1 CALLOUT FLOOR PLAN - LEVEL 2
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO STRUCTURAL, MECHANICAL, ELECTRICAL, PLUMBING, TECHNOLOGY, AND CIVIL DRAWINGS FOR ADDITIONAL INFORMATION.
4. CONTRACTOR SHALL COORDINATE THE LOCATIONS OF ALL ELECTRICAL, MECHANICAL, TECHNOLOGY, AND FIRE ALARM SYSTEMS, FIXTURES, AND EQUIPMENT WITH THE RESPECTIVE CONTRACTORS AND OTHER COMPONENTS OF WORK.
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL GYPSUM BOARD PARTITIONS SHALL BE TAPED, SPACKLED AND SANDED WITH NO VISIBLE JOINTS. ALL SURFACES SHALL BE ALIGNED.
7. WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE, PER DETAIL.
8. ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHALL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED. FIRE SAFE PENETRATIONS AT RATED PARTITIONS PER APPLICABLE UL ASSEMBLY
9. PROVIDE METAL STUD ANCHOR BRACKETS AS DETAILED AT LOCATIONS INCLUDING BUT NOT LIMITED GRAB BARS, SHELVING, OVERHEAD CABINETS, SIGNAGE, TOILET ROOMS ACCESSORIES, ETC.
10. ALL LEVEL 1 AND 2 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE EXTERIOR FACE OF AS-1 OR CW-1. ALL LEVEL 0 DIMENSIONS TO THE EXTERIOR WALL ARE TO THE INTERIOR FACE OF CONCRETE.
11. ALL PARTITIONS ARE DIMENSIONED FROM FINISHED FACE UNLESS OTHERWISE NOTED. DIMENSIONS NOTED "CLEAR" MUST BE ACCURATELY MAINTAINED AND SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
12. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
13. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

REVISIONS
06.16.2022 - CONFORMED SET

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Ohio Department of Natural Resources

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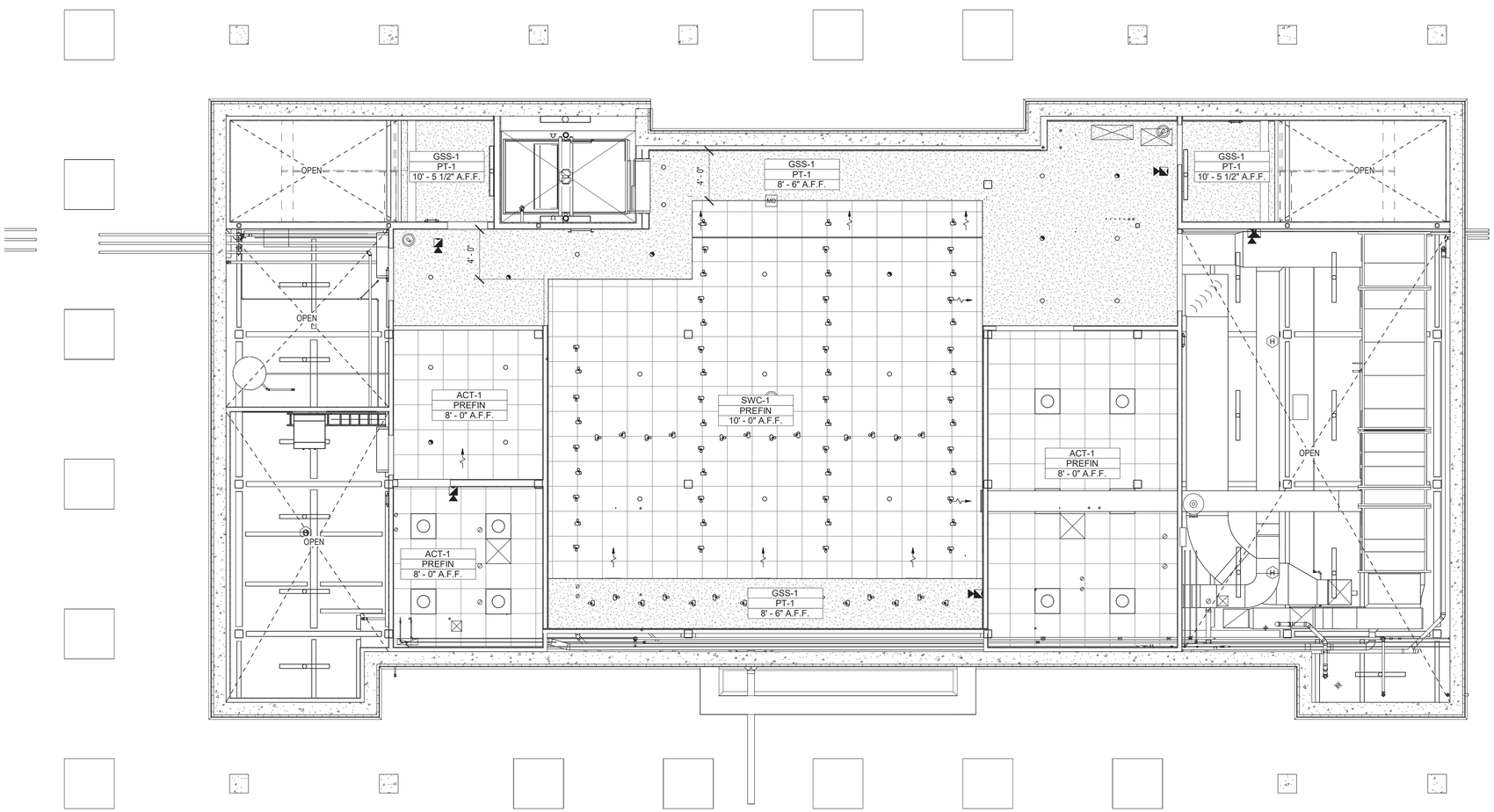
CALLOUT FLOOR PLAN - LEVEL 2

SHEET NO.
A1.6



1 CEILING PLAN - LEVEL 0
3/16" = 1'-0"

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
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5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL CEILING COMPONENTS (LIGHT FIXTURES, SPRINKLER HEADS, ALARMS, ETC.) ARE TO BE INSTALLED IN CENTER OF TILE UNLESS OTHERWISE NOTED.
7. DOOR EXIT SIGNS SHALL BE LOCATED 1'-0" CLEAR FROM AND CENTERED ON THE DOOR TO WHICH EGRESS IS INDICATED, UNLESS OTHERWISE NOTED.
8. SPRINKLER HEADS TO BE LOCATED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL EFFORTS TO ACCOMONDATE ADJUSTMENTS TO SPRINKLER HEAD LOCATIONS AS REQUESTED BY ARCHITECT.
9. REFER TO ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE TYPES.
10. ALL STROBES SHALL BE LOCATED @ +8'-0" AFF / +6" BELOW FINISHED CEILING. SEE ELECTRICAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS.
11. ALL STROBES TO ALIGN VERTICALLY WITH RECEPTACLE BELOW WHERE OCCURS.
12. ARCHITECT TO REVIEW ALL CEILING FIXTURE LOCATIONS PRIOR TO INSTALLATION.
13. REFLECTED CEILING PLANS INDICATE GENERAL TYPE AND SPECIFIC LOCATION OF LIGHT FIXTURES AND OF SIGNAL AND EQUIP DEVICES
14. ELECTRICAL ENGINEERING DRAWINGS INDICATE:
    A. CIRCUITING AND WIRING OF LIGHT FIXTURES AND SWITCHES.
    B. LIFE SAFETY EQUIPMENT.
    C. LOCATION OF REQUIRED EMERGENCY LIGHT FIXTURES.
    D. LIGHT FIXTURE SPECIFICATIONS
15. MECHANICAL ENGINEERING DRAWINGS INDICATE
    A. DUCTS.
    B. AIR MOVEMENT.
    C. REQUIREMENTS.
    D. SIZES OF GRILLES AND REGISTERS.
16. DESIGN-BUILD FIRE PROTECTION DRAWINGS INDICATE:
    A. LAYOUT, LOCATION, AND SIZE OF SPRINKLER LINES AND HEADS.
    B. PRESSURE REQUIREMENTS.
    C. SPRINKLER HEAD SPECIFICATIONS.
    D. LOCATION OF FIRE PROTECTION RISERS AND WALL HYDRANTS.
17. WHERE ACOUSTICAL PANELS ARE REQD TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
18. CENTER ALL CEILING GRIDS IN ROOM. UNLESS OTHERWISE NOTED.
19. COORDINATE WITH MEP DRAWINGS FOR CEILING ACCESS PANEL LOCATIONS.
20. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

LEGEND

	WALL MOUNTED EXIT SIGN
	FIRE ALARM - AUDIO VISUAL
	VACANCY SENSOR
	FIRE ALARM MANUAL PULL STATION
	OCC SENSOR
	TWO WAY EMERGENCY COMMUNICATION - ILLUMINATED SIGN
	DIGITAL SWITCH
	DIMMER
	SMOKE DETECTOR
	LIGHT SWITCH
	TRACK LIGHT
	CAN LIGHT
	LUMINAIRE LINEAR LIGHT
	DATA RACK
CEILING TYPE / FINISH / HEIGHT A.F.F.	CEILING TAG

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

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DRAWN BY:	Author	SCALE:	As indicated
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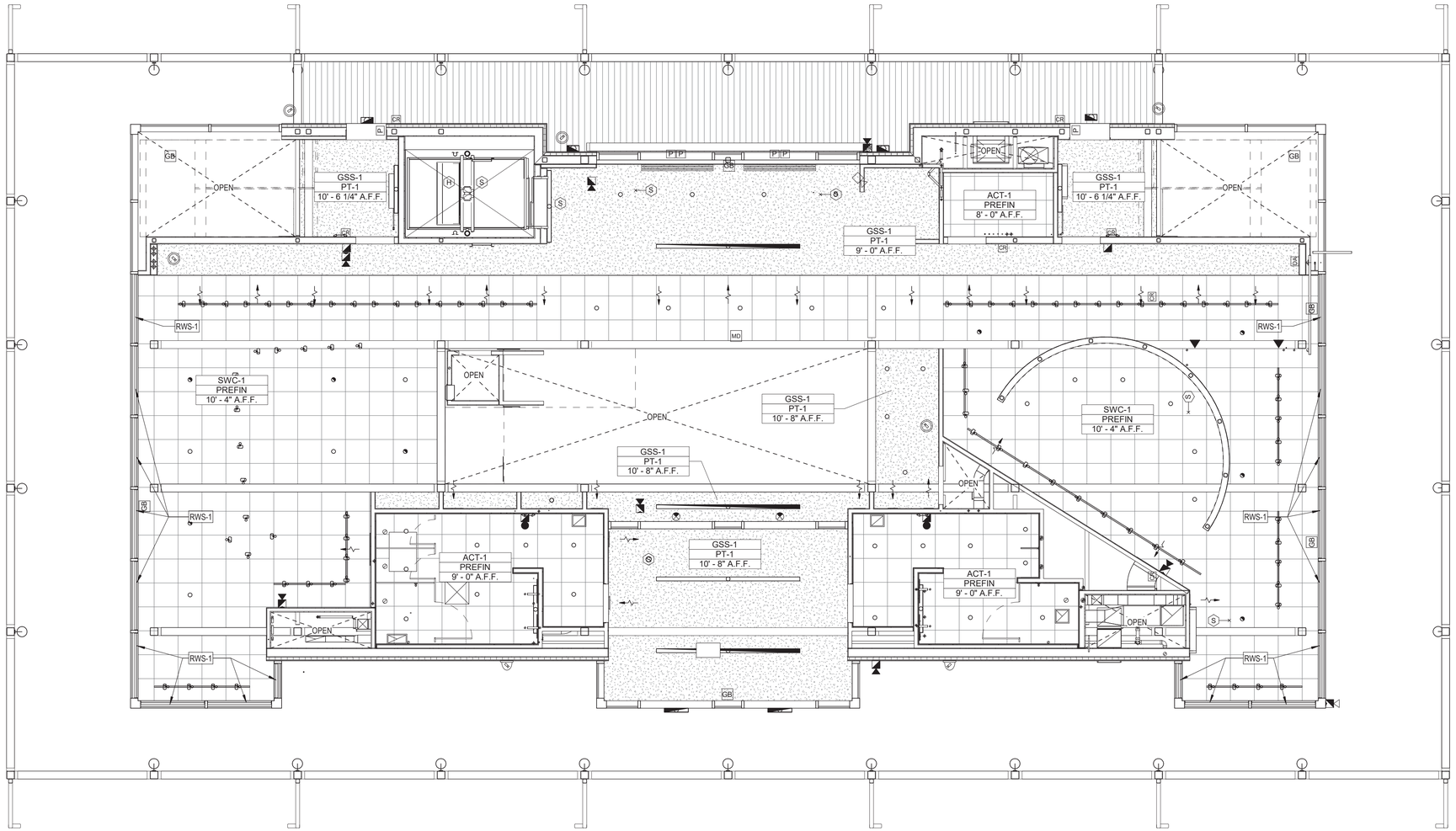
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

CEILING PLAN - LEVEL 0

SHEET NO.
A2.1



1 CEILING PLAN - LEVEL 1
3/16" = 1'-0"

GENERAL NOTES

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5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL CEILING COMPONENTS (LIGHT FIXTURES, SPRINKLER HEADS, ALARMS, ETC.) ARE TO BE INSTALLED IN CENTER OF TILE UNLESS OTHERWISE NOTED.
7. DOOR EXIT SIGNS SHALL BE LOCATED 1'-0" CLEAR FROM AND CENTERED ON THE DOOR TO WHICH EGRESS IS INDICATED, UNLESS OTHERWISE NOTED.
8. SPRINKLER HEADS TO BE LOCATED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL EFFORTS TO ACCOMONDATE ADJUSTMENTS TO SPRINKLER HEAD LOCATIONS AS REQUESTED BY ARCHITECT.
9. REFER TO ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE TYPES.
10. ALL STROBES SHALL BE LOCATED @ +8'-0" AFF / +6" BELOW FINISHED CEILING. SEE ELECTRICAL DRAWINGS FOR LOCATIONS AND SPECIFICATIONS.
11. ALL STROBES TO ALIGN VERTICALLY WITH RECEPTACLE BELOW WHERE OCCURS.
12. ARCHITECT TO REVIEW ALL CEILING FIXTURE LOCATIONS PRIOR TO INSTALLATION.
13. REFLECTED CEILING PLANS INDICATE GENERAL TYPE AND SPECIFIC LOCATION OF LIGHT FIXTURES AND OF SIGNAL AND EQUIP DEVICES
14. ELECTRICAL ENGINEERING DRAWINGS INDICATE:
    A. CIRCUITING AND WIRING OF LIGHT FIXTURES AND SWITCHES.
    B. LIFE SAFETY EQUIPMENT.
    C. LOCATION OF REQUIRED EMERGENCY LIGHT FIXTURES.
    D. LIGHT FIXTURE SPECIFICATIONS
15. MECHANICAL ENGINEERING DRAWINGS INDICATE
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    D. SIZES OF GRILLES AND REGISTERS.
16. DESIGN-BUILD FIRE PROTECTION DRAWINGS INDICATE:
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    C. SPRINKLER HEAD SPECIFICATIONS.
    D. LOCATION OF FIRE PROTECTION RISERS AND WALL HYDRANTS.
17. WHERE ACOUSTICAL PANELS ARE REQD TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
18. CENTER ALL CEILING GRIDS IN ROOM. UNLESS OTHERWISE NOTED.
19. COORDINATE WITH MEP DRAWINGS FOR CEILING ACCESS PANEL LOCATIONS.
20. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

LEGEND

	WALL MOUNTED EXIT SIGN
	FIRE ALARM - AUDIO VISUAL
	VACANCY SENSOR
	FIRE ALARM MANUAL PULL STATION
	OCC SENSOR
	TWO WAY EMERGENCY COMMUNICATION - ILLUMINATED SIGN
	DIGITAL SWITCH
	DIMMER
	SMOKE DETECTOR
	LIGHT SWITCH
	TRACK LIGHT
	CAN LIGHT
	LUMINAIRE LINEAR LIGHT
	DATA RACK
CEILING TYPE / FINISH / HEIGHT A.F.F.	CEILING TAG

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

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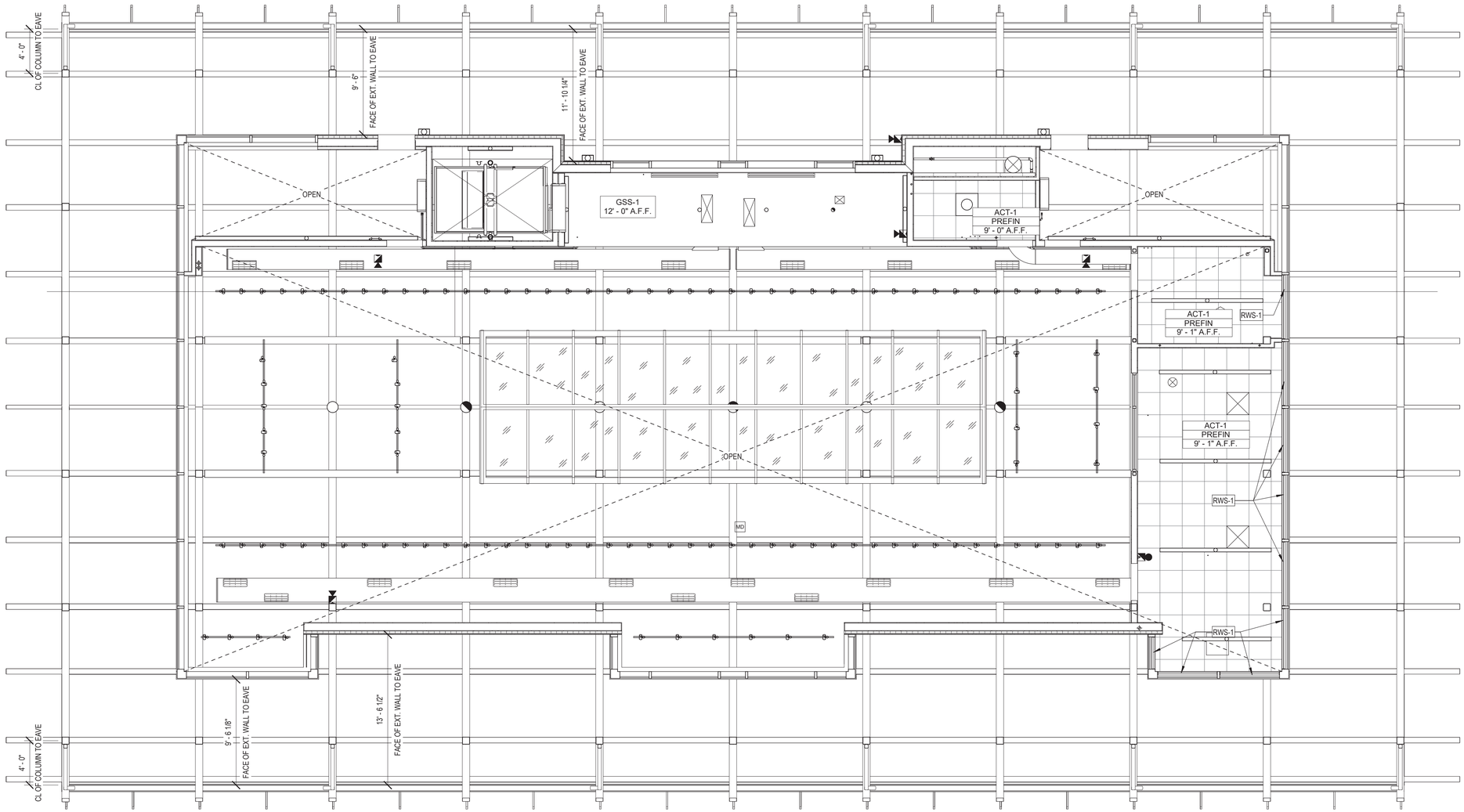
CEILING PLAN - LEVEL 1

SHEET NO.
A2.2



1 CEILING PLAN - LEVEL 2
3/16" = 1'-0"

GENERAL NOTES

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5. REFER A0.9 FOR MATERIAL INFORMATION.
6. ALL CEILING COMPONENTS (LIGHT FIXTURES, SPRINKLER HEADS, ALARMS, ETC.) ARE TO BE INSTALLED IN CENTER OF TILE UNLESS OTHERWISE NOTED.
7. DOOR EXIT SIGNS SHALL BE LOCATED 1'-0" CLEAR FROM AND CENTERED ON THE DOOR TO WHICH EGRESS IS INDICATED, UNLESS OTHERWISE NOTED.
8. SPRINKLER HEADS TO BE LOCATED BY CONTRACTOR. CONTRACTOR SHALL MAKE ALL EFFORTS TO ACCOMONDATE ADJUSTMENTS TO SPRINKLER HEAD LOCATIONS AS REQUESTED BY ARCHITECT.
9. REFER TO ELECTRICAL DOCUMENTS FOR LIGHT FIXTURE TYPES.
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    C. LOCATION OF REQUIRED EMERGENCY LIGHT FIXTURES.
    D. LIGHT FIXTURE SPECIFICATIONS
15. MECHANICAL ENGINEERING DRAWINGS INDICATE
    A. DUCTS.
    B. AIR MOVEMENT.
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    C. SPRINKLER HEAD SPECIFICATIONS.
    D. LOCATION OF FIRE PROTECTION RISERS AND WALL HYDRANTS.
17. WHERE ACOUSTICAL PANELS ARE REQD TO BE CUT, CUT THE PANELS TO MAINTAIN A SHARP AND NEAT EDGE.
18. CENTER ALL CEILING GRIDS IN ROOM, UNLESS OTHERWISE NOTED.
19. COORDINATE WITH MEP DRAWINGS FOR CEILING ACCESS PANEL LOCATIONS.
20. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1

LEGEND

- WALL MOUNTED EXIT SIGN
- FIRE ALARM - AUDIO VISUAL
- VACANCY SENSOR
- FIRE ALARM MANUAL PULL STATION
- OCC SENSOR
- TWO WAY EMERGENCY COMMUNICATION - ILLUMINATED SIGN
- DIGITAL SWITCH
- DIMMER
- SMOKE DETECTOR
- LIGHT SWITCH
- TRACK LIGHT
- CAN LIGHT
- LUMINAIRE LINEAR LIGHT
- DATA RACK
- CEILING TAG (CEILING TYPE / FINISH / HEIGHT A.F.F.)

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

FOR OFFICIAL USE ONLY - Infrastructure Record

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
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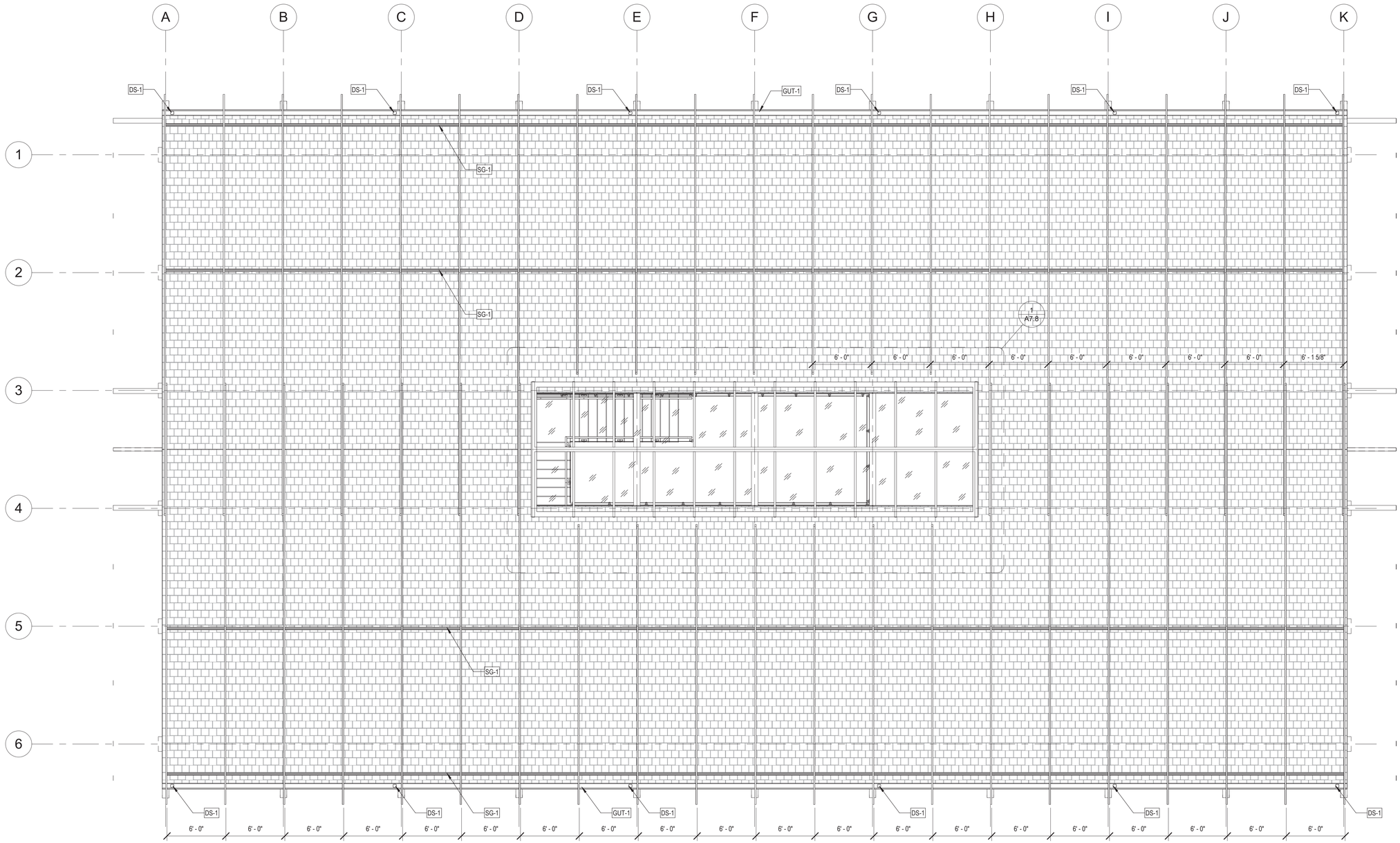
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

CEILING PLAN - LEVEL 2

SHEET NO.
A2.3



1 ROOF PLAN
3/16" = 1'-0"

N

REVISIONS
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Ohio Department of Natural Resources

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ROOF PLAN

SHEET NO.
A3.0

LEGEND

- GL-1
- GL-2
- AS-1
- PSS-1
- ST-1

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
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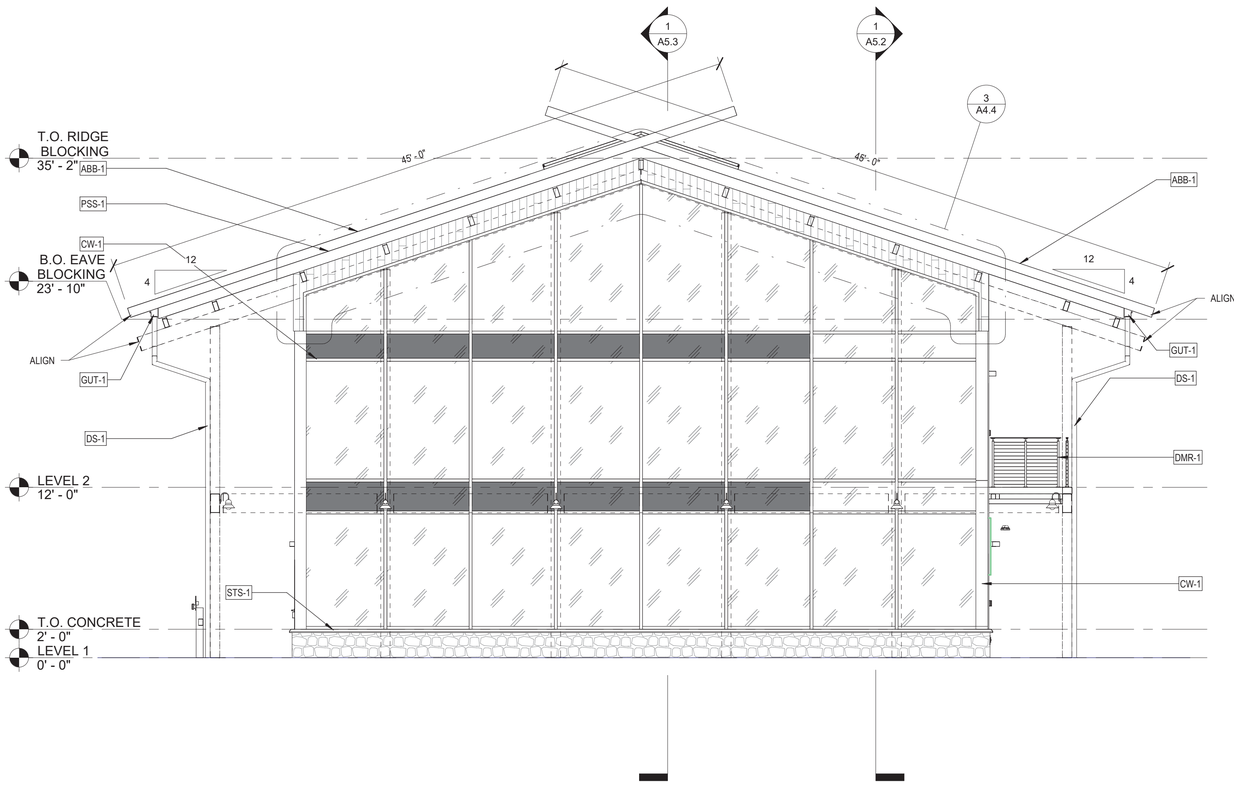
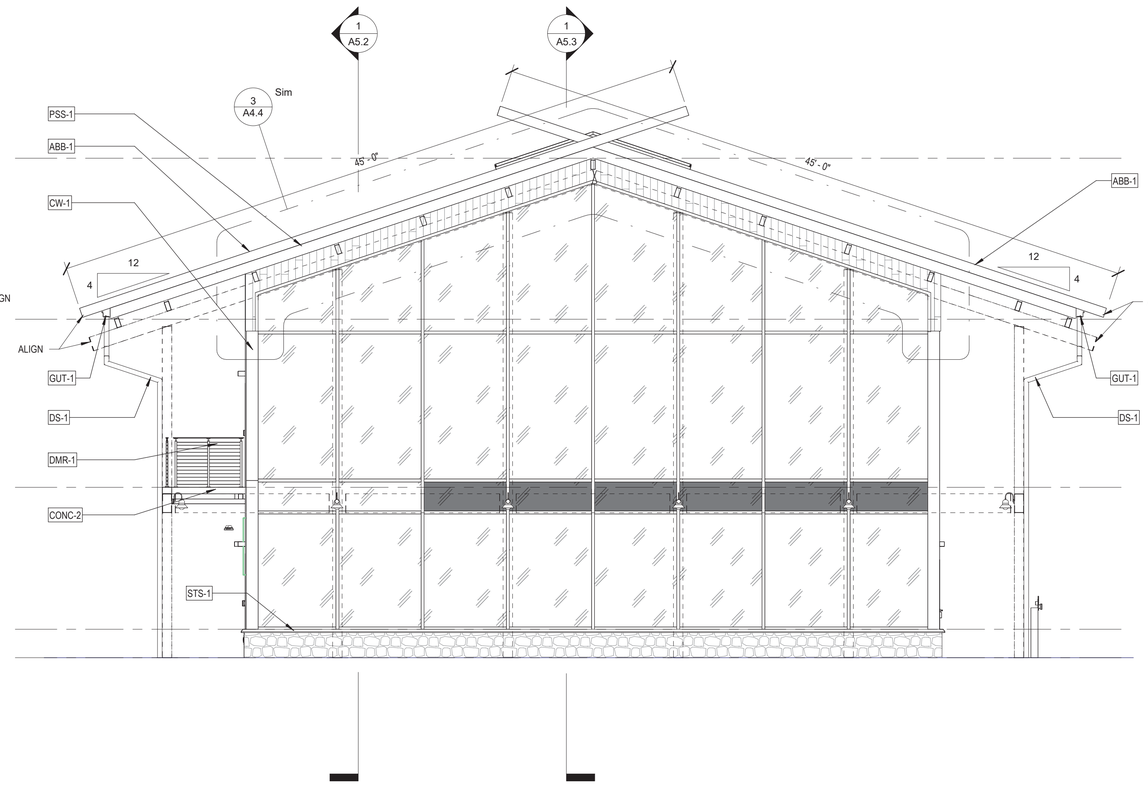
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
7. STRUCTURAL STEEL SHOWN AS DASHED LINE FOR CLARITY.



1 ELEVATION
3/16" = 1'-0"



2 ELEVATION
3/16" = 1'-0"

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EXTERIOR ELEVATIONS

SHEET NO.
A4.0

LEGEND

- GL-1
- GL-2
- AS-1
- PSS-1
- ST-1

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
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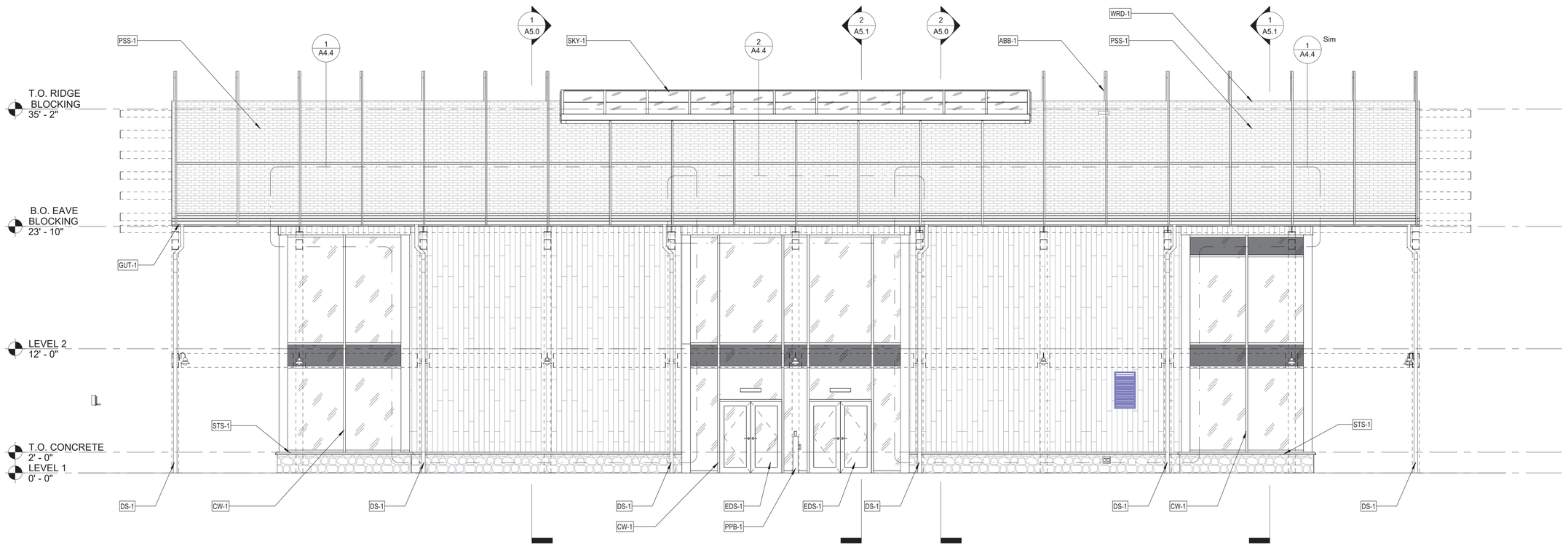
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
7. STRUCTURAL STEEL SHOWN AS DASHED LINE FOR CLARITY.



1 ELEVATION
3/16" = 1'-0"

REVISIONS
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CONFORMED DOCUMENTS

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EXTERIOR ELEVATIONS

SHEET NO.
A4.1

LEGEND

- GL-1
- GL-2
- AS-1
- PSS-1
- ST-1

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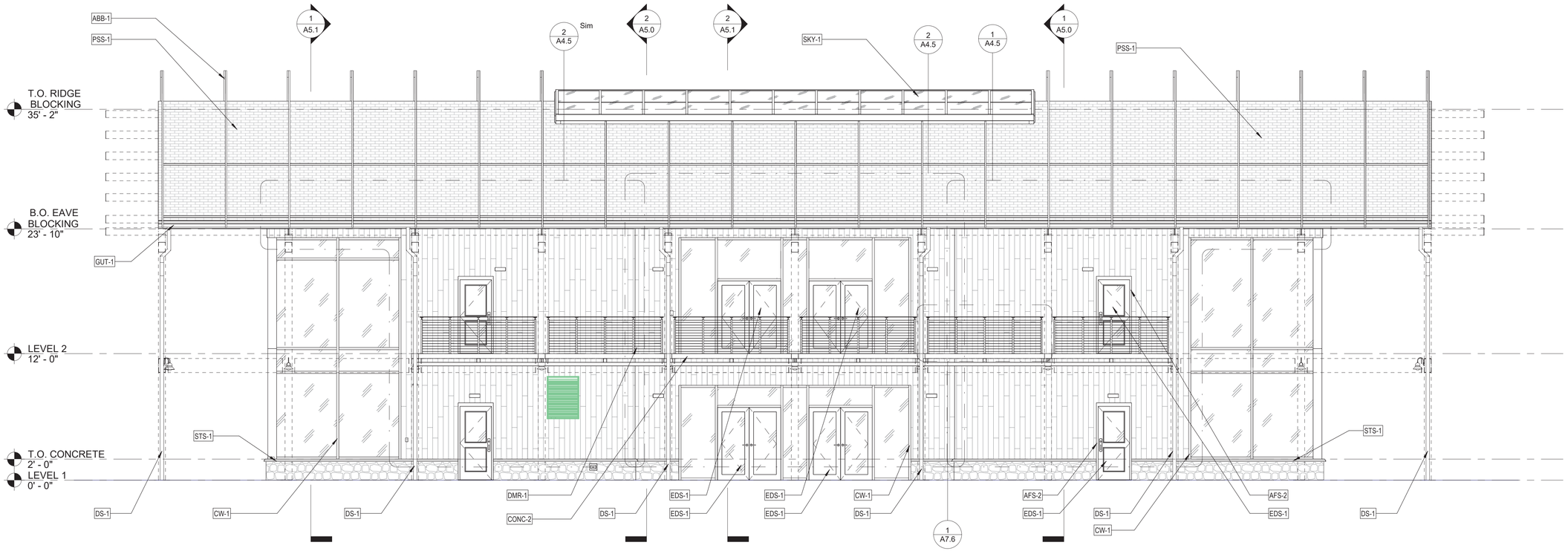
6. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.
7. STRUCTURAL STEEL SHOWN AS DASHED LINE FOR CLARITY.



1 ELEVATION
3/16" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

EXTERIOR ELEVATIONS

SHEET NO. **A4.2**

LEGEND

- GL-1
- GL-2
- AS-1
- PSS-1
- ST-1

GENERAL NOTES

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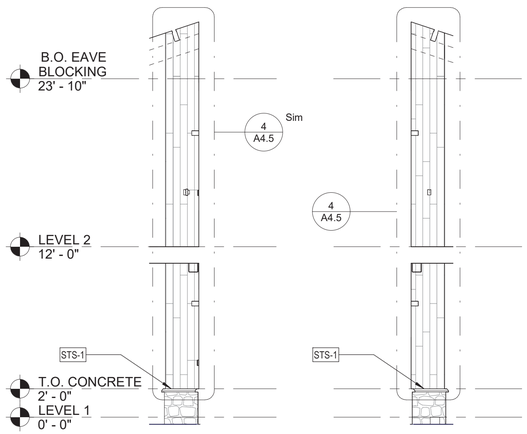
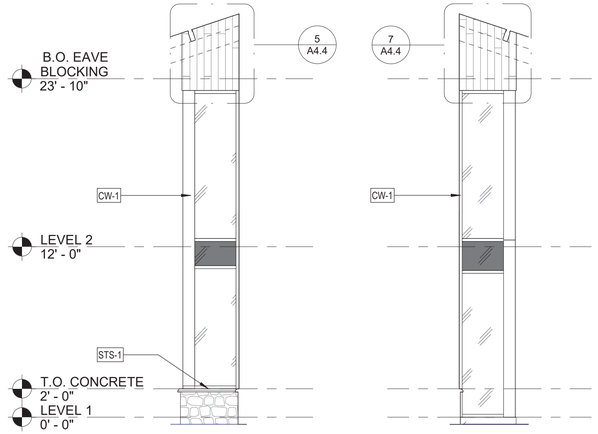


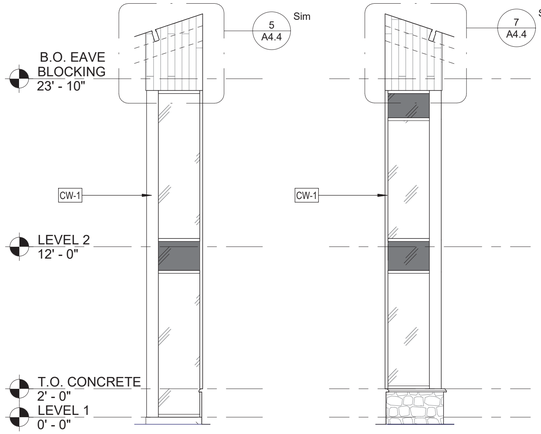
6 NW RETURN - S
3/16" = 1'-0"

8 SW RETURN - N
3/16" = 1'-0"



5 SE RETURN - N
3/16" = 1'-0"

3 SE RETURN - S
3/16" = 1'-0"



4 NE RETURN - N
3/16" = 1'-0"

2 NE RETURN - S
3/16" = 1'-0"

REVISIONS
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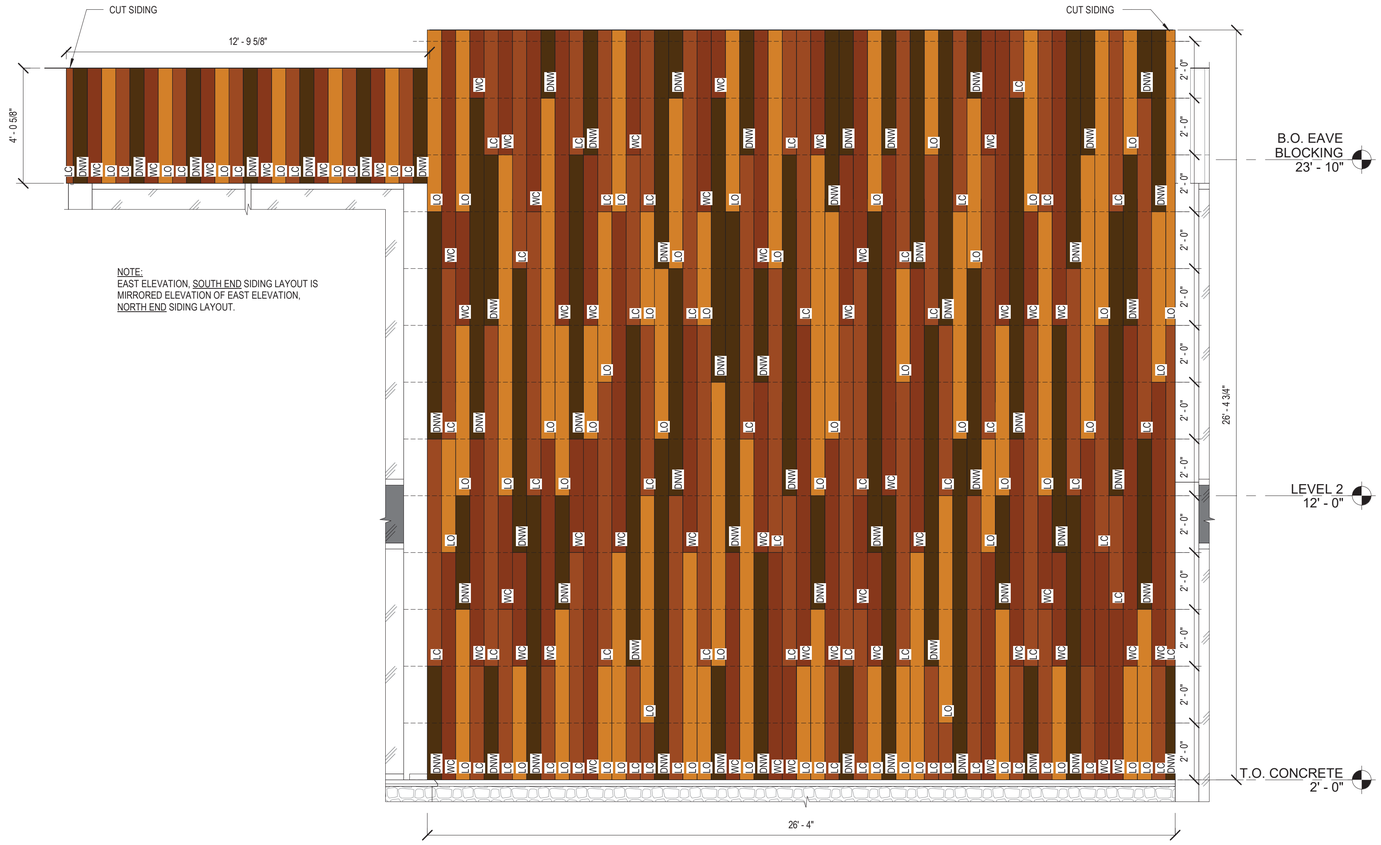
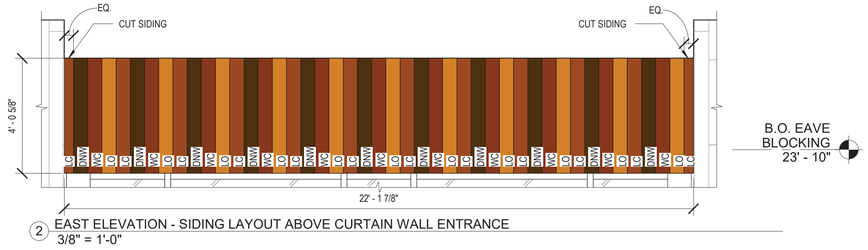
EXTERIOR ELEVATIONS

SHEET NO.
A4.3



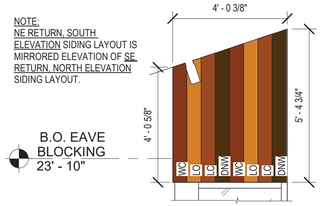
NOTE:
EAST ELEVATION, SOUTH END SIDING LAYOUT IS MIRRORED ELEVATION OF EAST ELEVATION, NORTH END SIDING LAYOUT.

1 EAST ELEVATION, NORTH END - SIDING LAYOUT
3/8" = 1'-0"

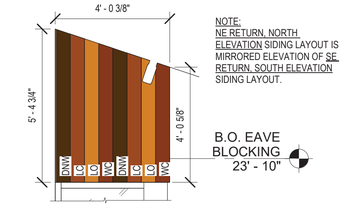


2 EAST ELEVATION - SIDING LAYOUT ABOVE CURTAIN WALL ENTRANCE
3/8" = 1'-0"

NOTE:
NE RETURN, SOUTH ELEVATION SIDING LAYOUT IS MIRRORED ELEVATION OF SE RETURN, NORTH ELEVATION SIDING LAYOUT.



5 SE RETURN, NORTH ELEVATION
3/8" = 1'-0"

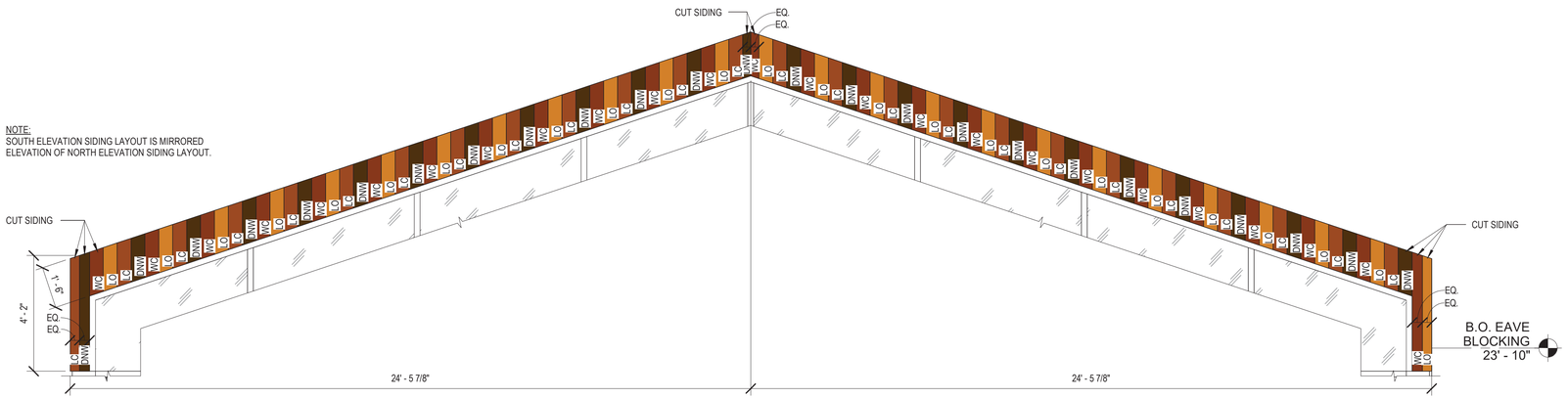


NOTE:
NE RETURN, NORTH ELEVATION SIDING LAYOUT IS MIRRORED ELEVATION OF SE RETURN, SOUTH ELEVATION SIDING LAYOUT.

7 SE RETURN. SOUTH ELEVATION
3/8" = 1'-0"

LONGBOARD SIDING FINISH KEY	
DNW	DARK NATIONAL WALNUT
LC	LIGHT CHERRY
LO	LIGHT OAK
WC	WESTERN CEDAR

NOTE:
SOUTH ELEVATION SIDING LAYOUT IS MIRRORED ELEVATION OF NORTH ELEVATION SIDING LAYOUT.



3 NORTH ELEVATION - SIDING LAYOUT
3/8" = 1'-0"

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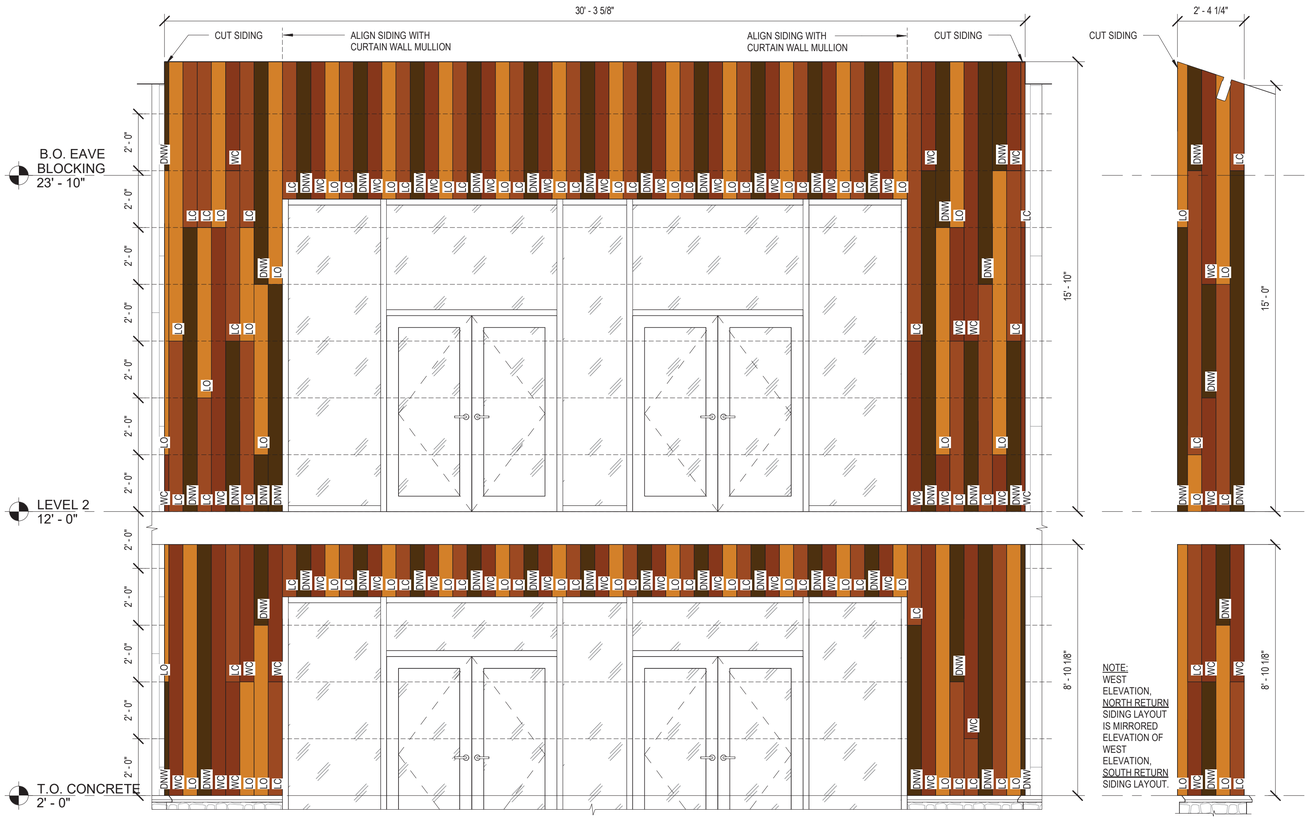
EXTERIOR ELEVATION DETAILS

SHEET NO.
A4.4



2 WEST ELEVATION - SIDING LAYOUT AT CURTAIN WALL DOORS
3/8" = 1'-0"

NOTE:
WEST ELEVATION, NORTH RETURN SIDING LAYOUT IS MIRRORED ELEVATION OF WEST ELEVATION, SOUTH RETURN SIDING LAYOUT.

4 WEST ELEVATION, NORTH RETURN
3/8" = 1'-0"

NOTE:
WEST ELEVATION, SOUTH END SIDING LAYOUT IS MIRRORED ELEVATION OF WEST ELEVATION, NORTH END SIDING LAYOUT.

1 WEST ELEVATION, SOUTH END - SIDING LAYOUT AT STAIRWELL DOORS
3/8" = 1'-0"

LONGBOARD SIDING FINISH KEY	
DNW	DARK NATIONAL WALNUT
LC	LIGHT CHERRY
LO	LIGHT OAK
WC	WESTERN CEDAR

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EXTERIOR ELEVATION DETAILS

SHEET NO.
A4.5

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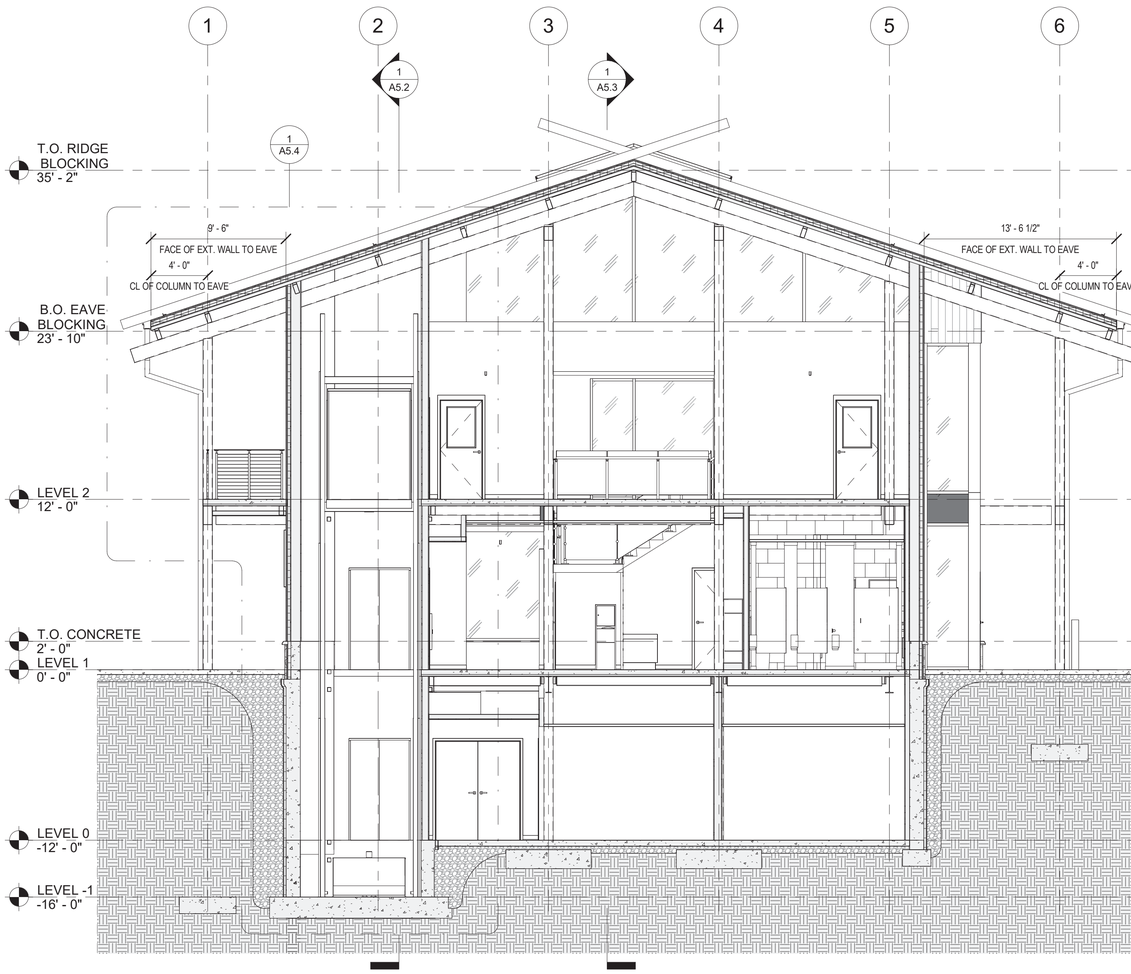
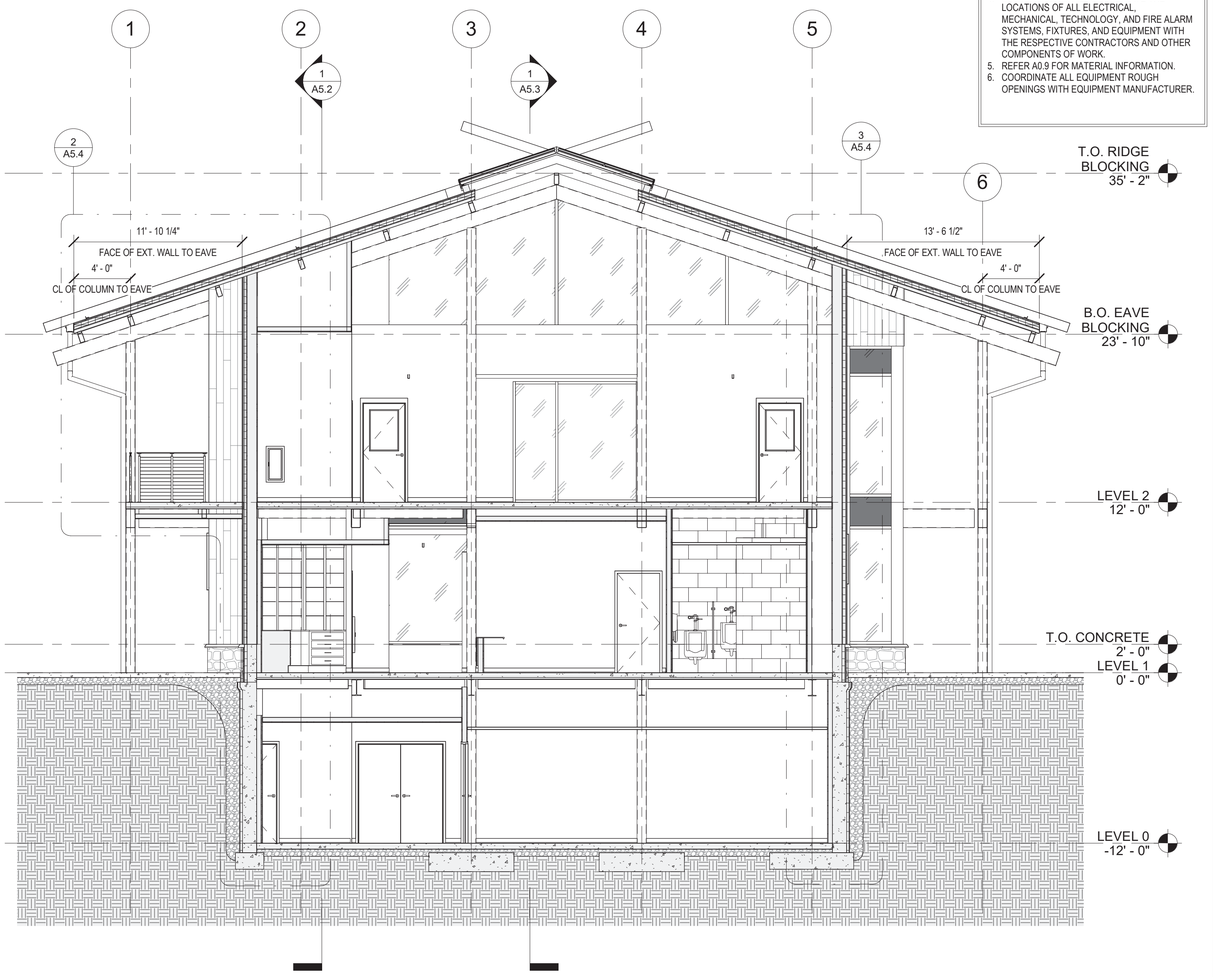


1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"

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BUILDING SECTIONS

SHEET NO.
A5.0

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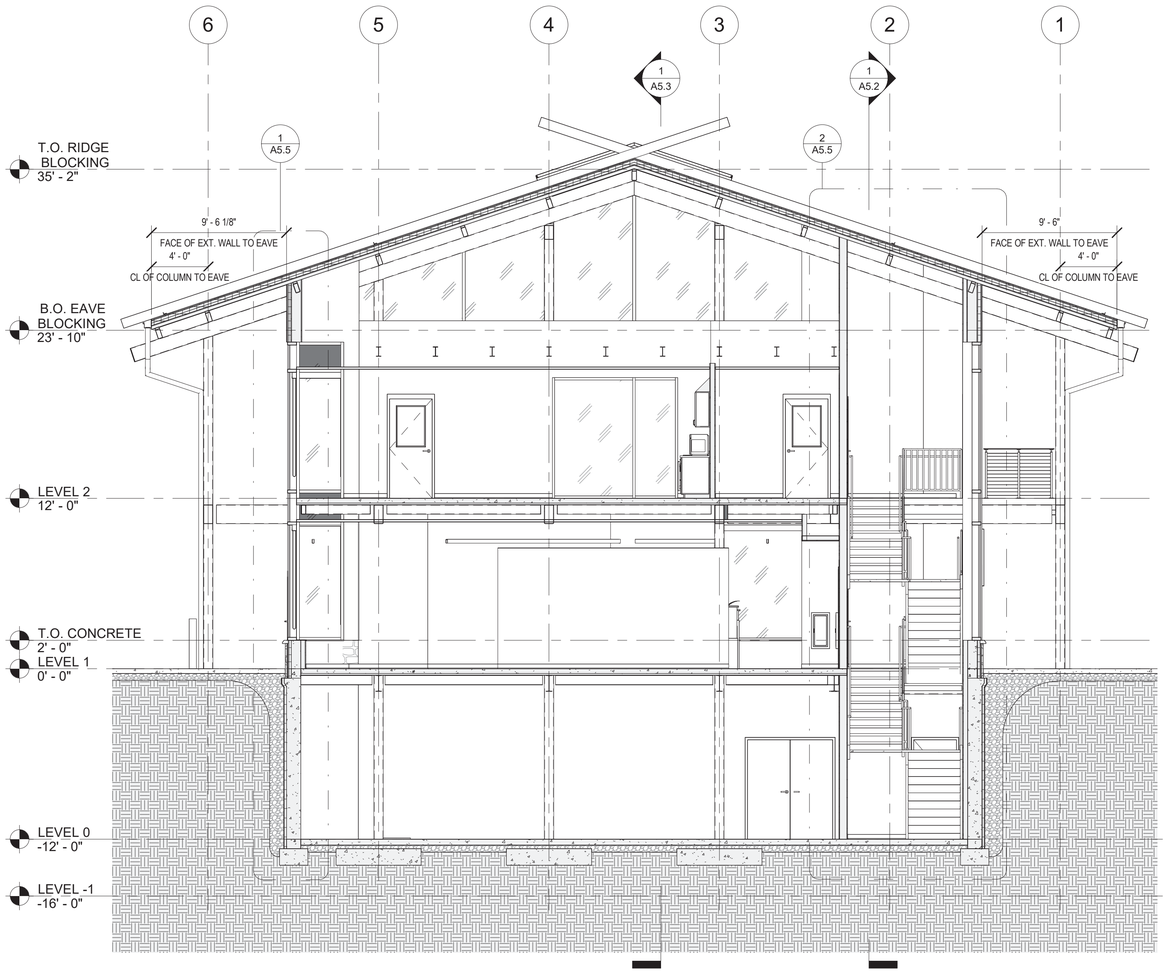
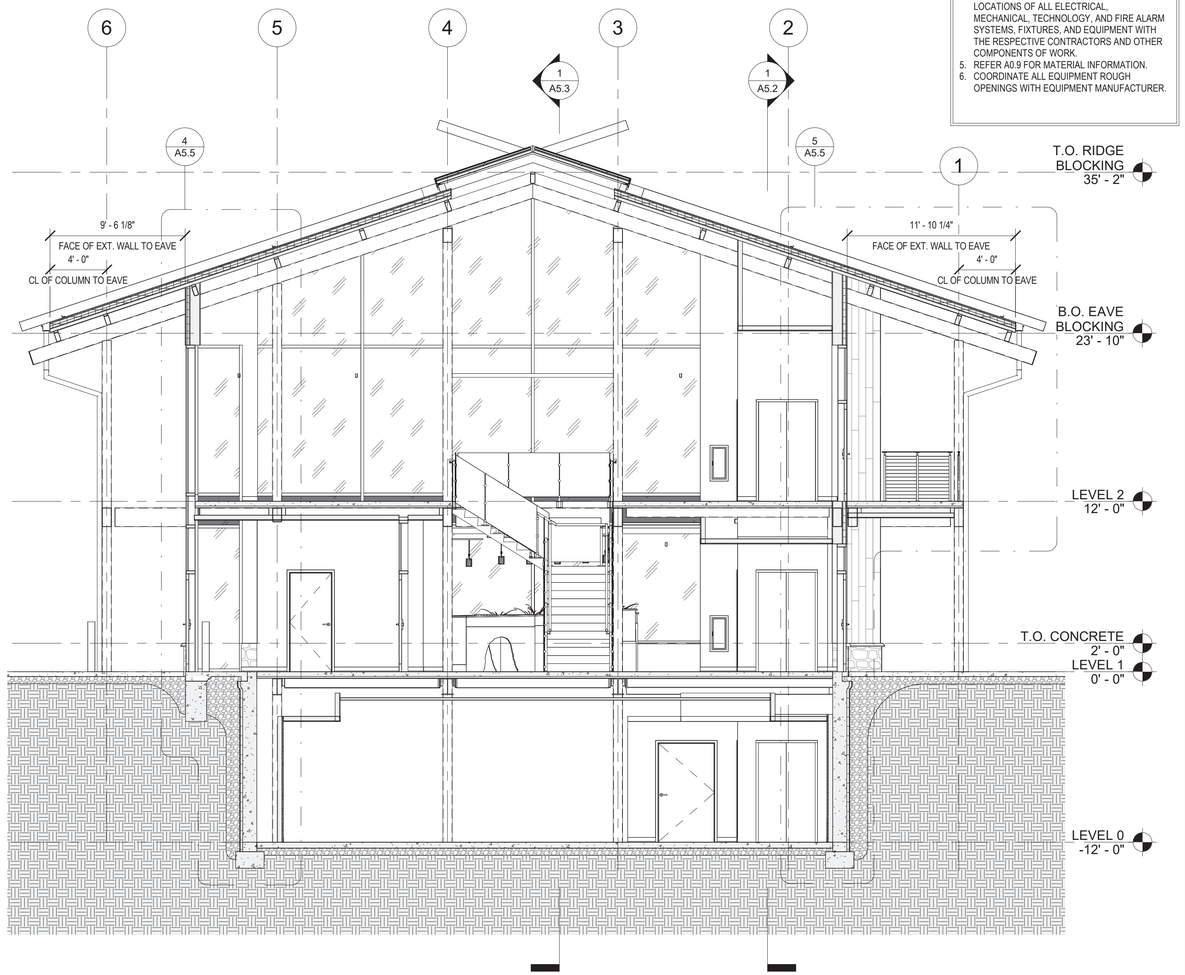


1 BUILDING SECTION
3/16" = 1'-0"



2 BUILDING SECTION
3/16" = 1'-0"

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Ohio Department of Natural Resources

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BUILDING SECTIONS

SHEET NO.
A5.1

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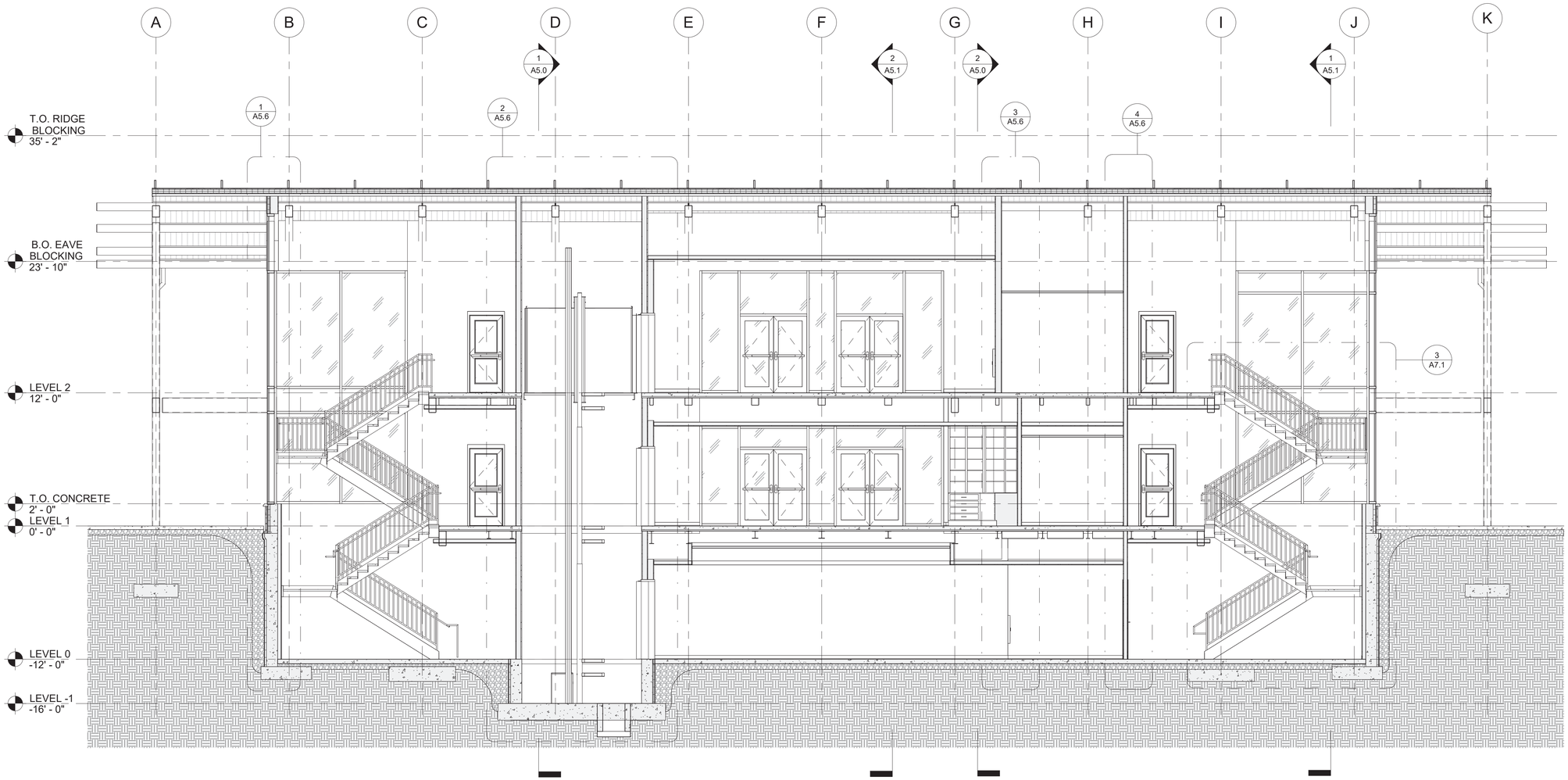

1 BUILDING SECTION
3/16" = 1'-0"

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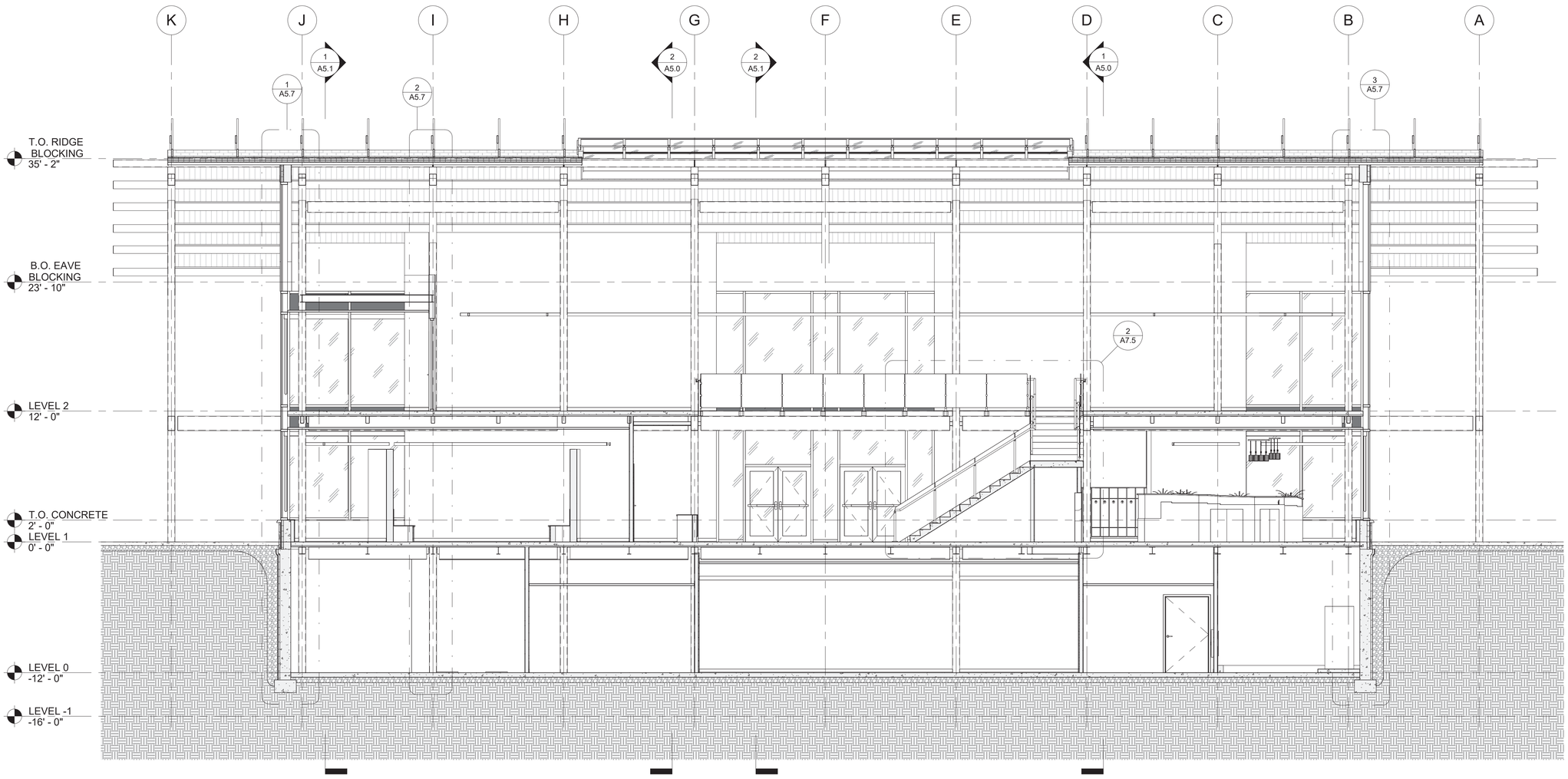
BUILDING SECTIONS

SHEET NO.
A5.2



1 BUILDING SECTION
3/16" = 1'-0"

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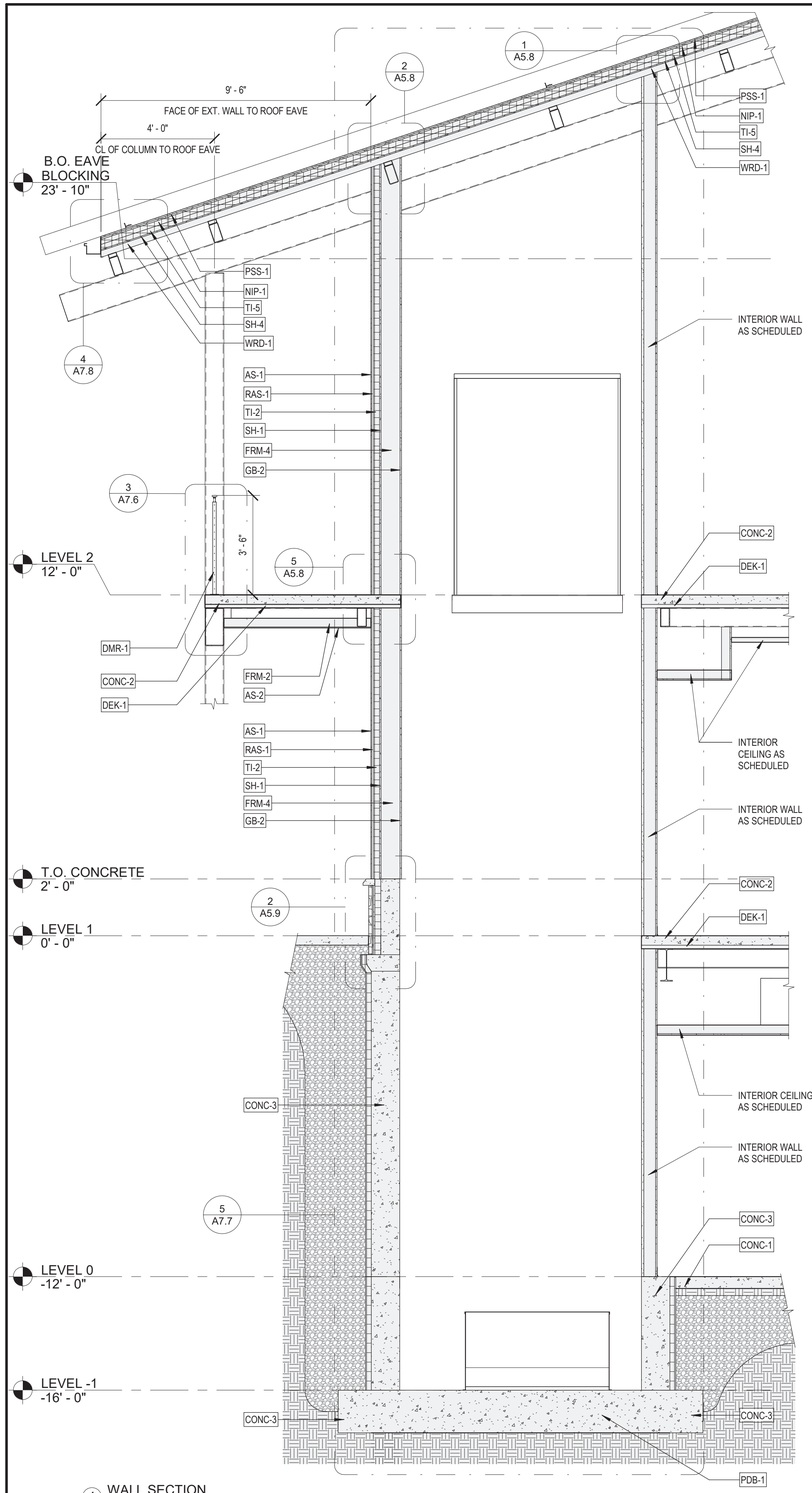
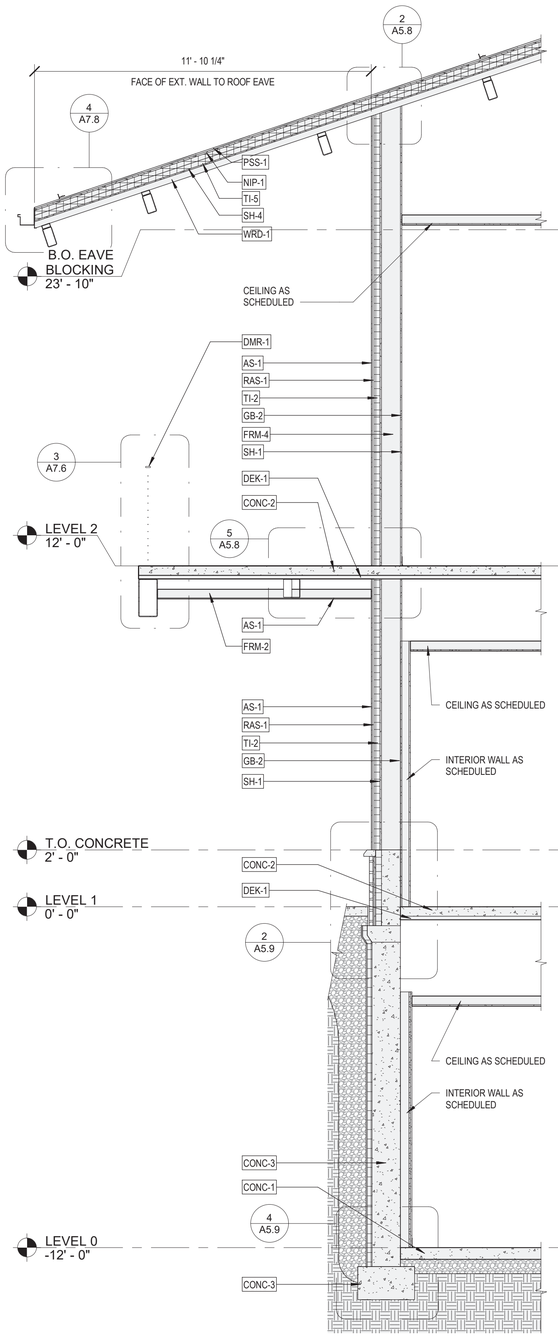
BUILDING SECTIONS

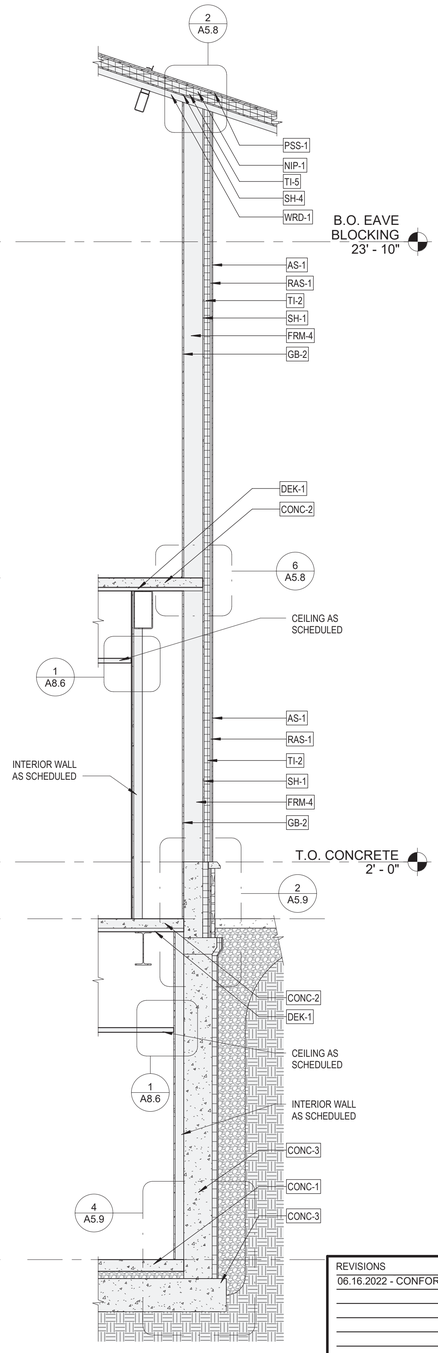
SHEET NO.
A5.3



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



2 WALL SECTION
3/8" = 1'-0"



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

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WALL SECTIONS

SHEET NO. **A5.4**

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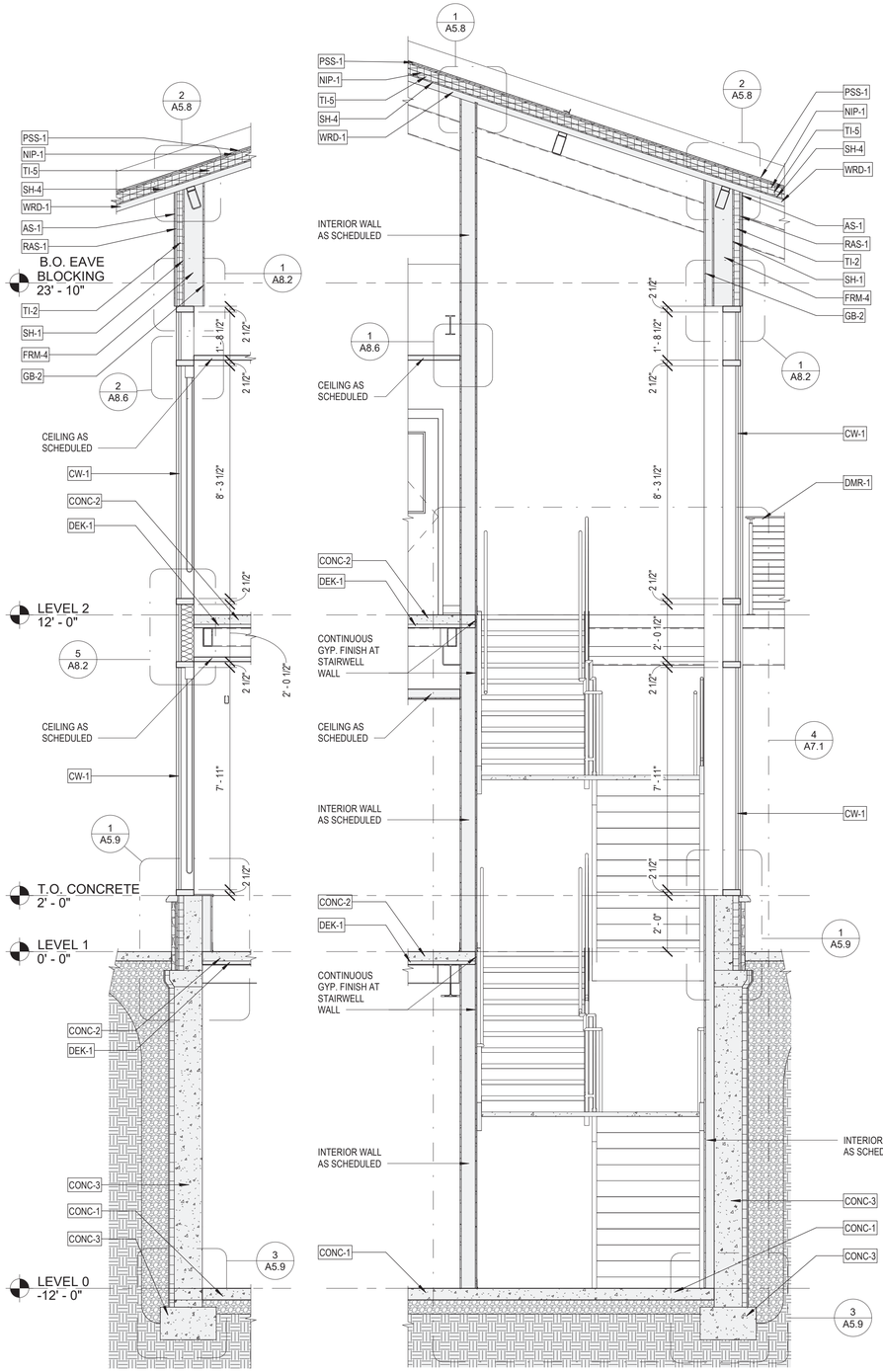
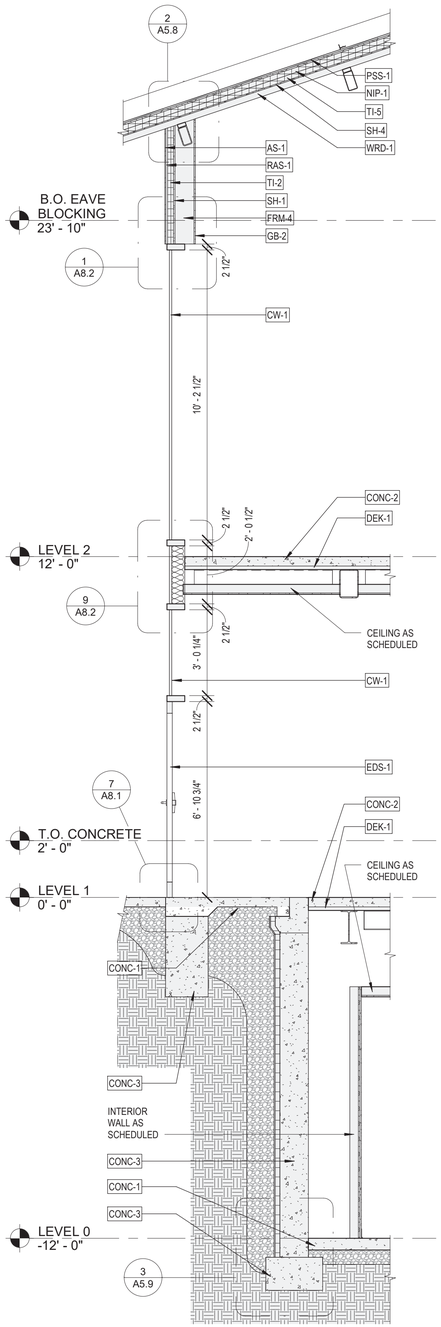
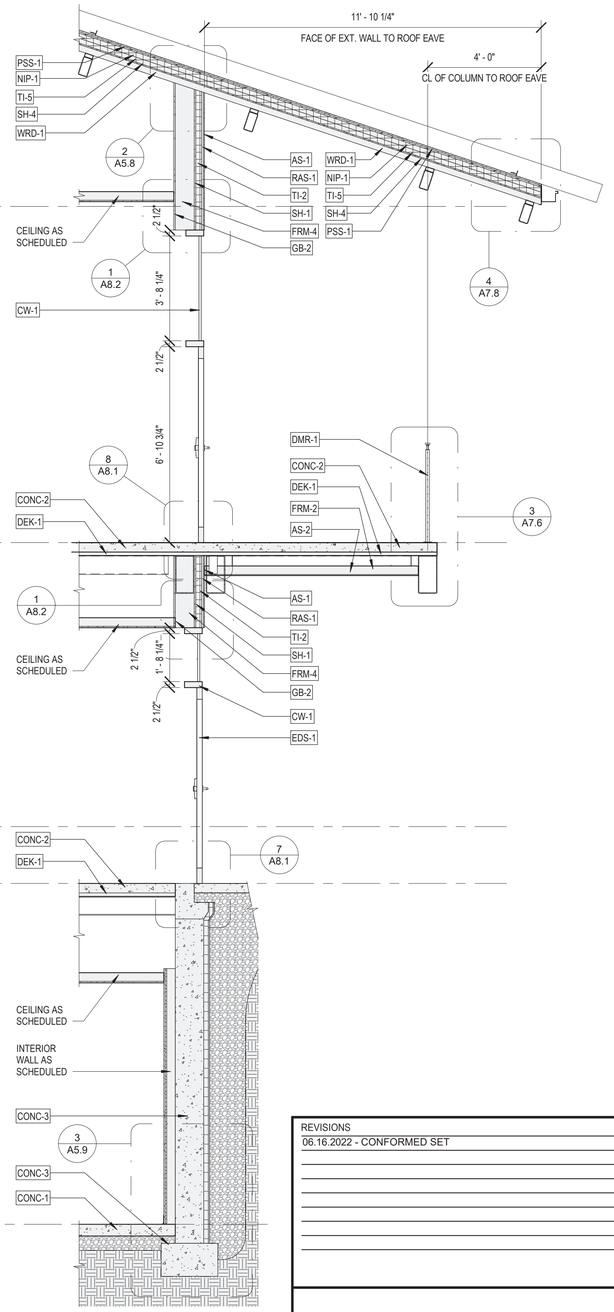


1 WALL SECTION
3/8" = 1'-0"

2 WALL SECTION
3/8" = 1'-0"



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



5 WALL SECTION
3/8" = 1'-0"

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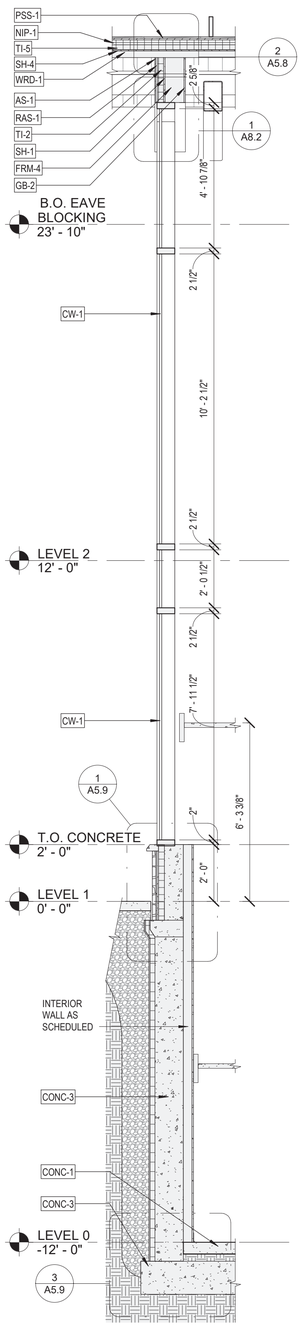
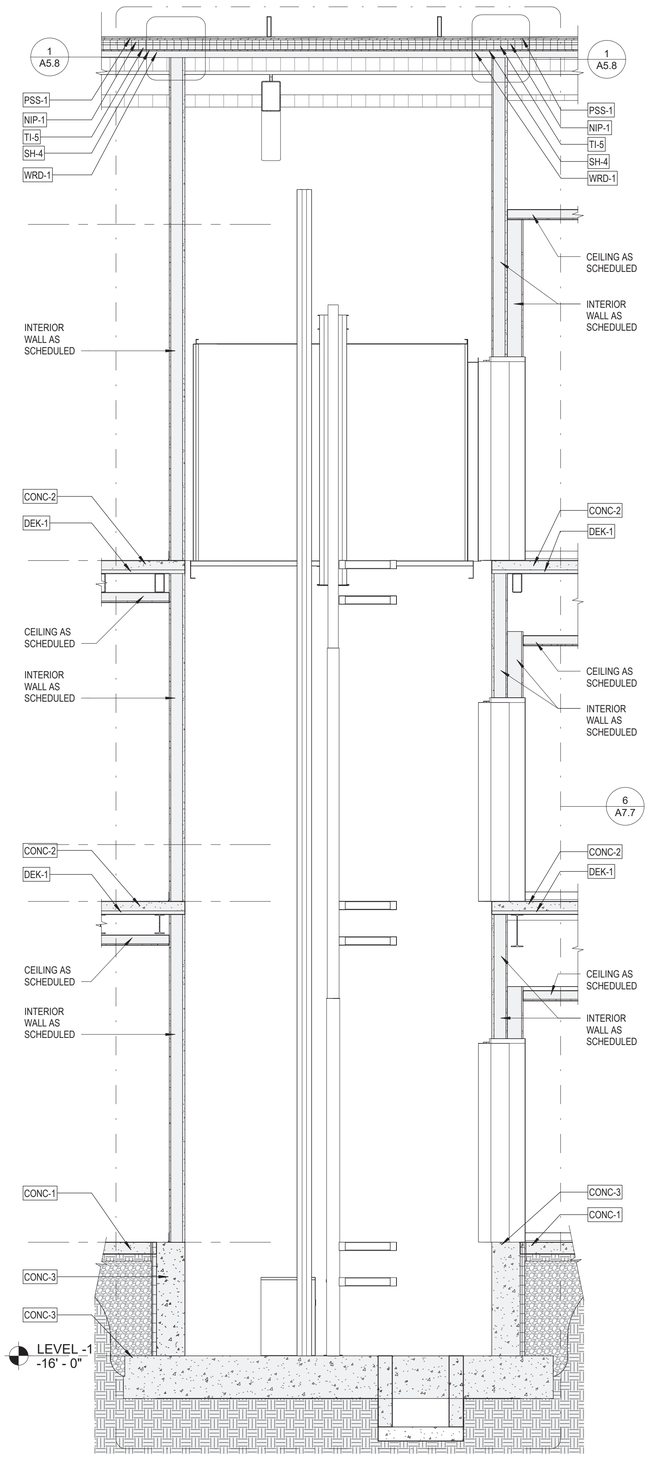
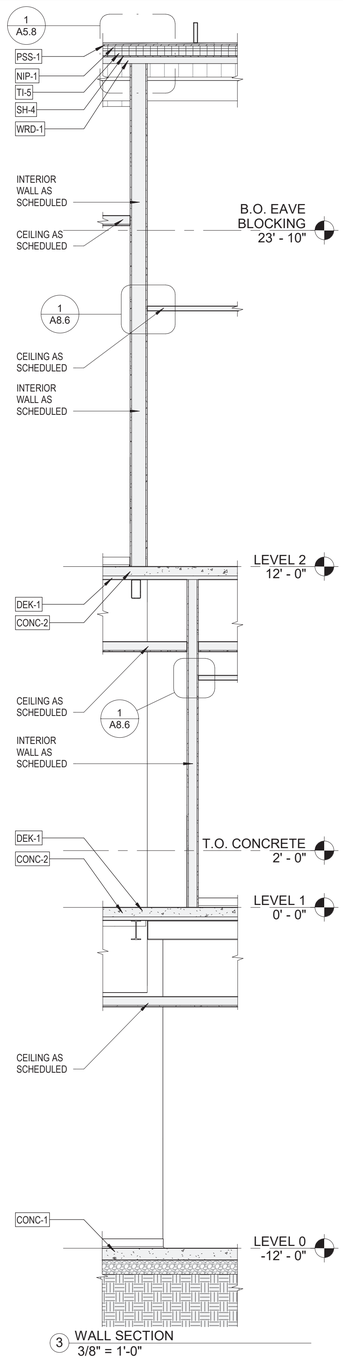
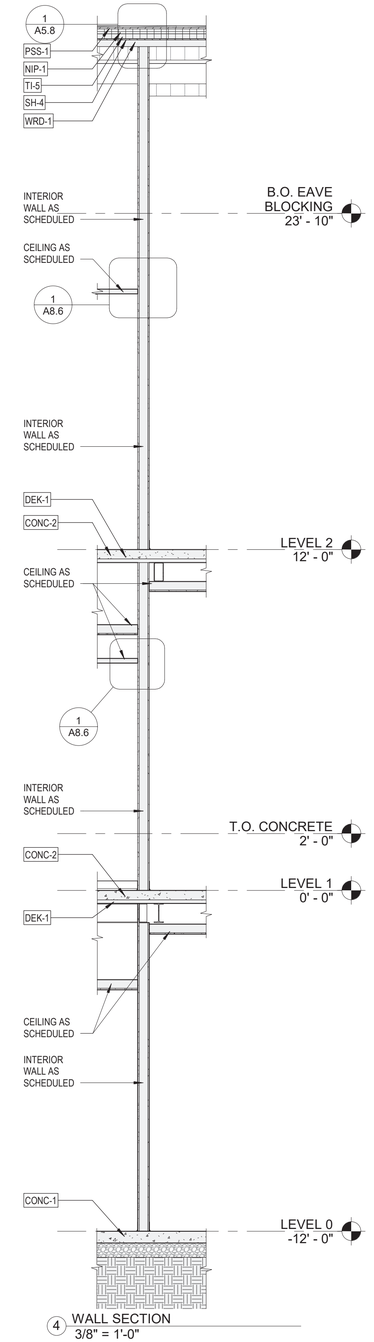
WALL SECTIONS

SHEET NO.
A5.5









GENERAL NOTES

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5. REFER A0.9 FOR MATERIAL INFORMATION.
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REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

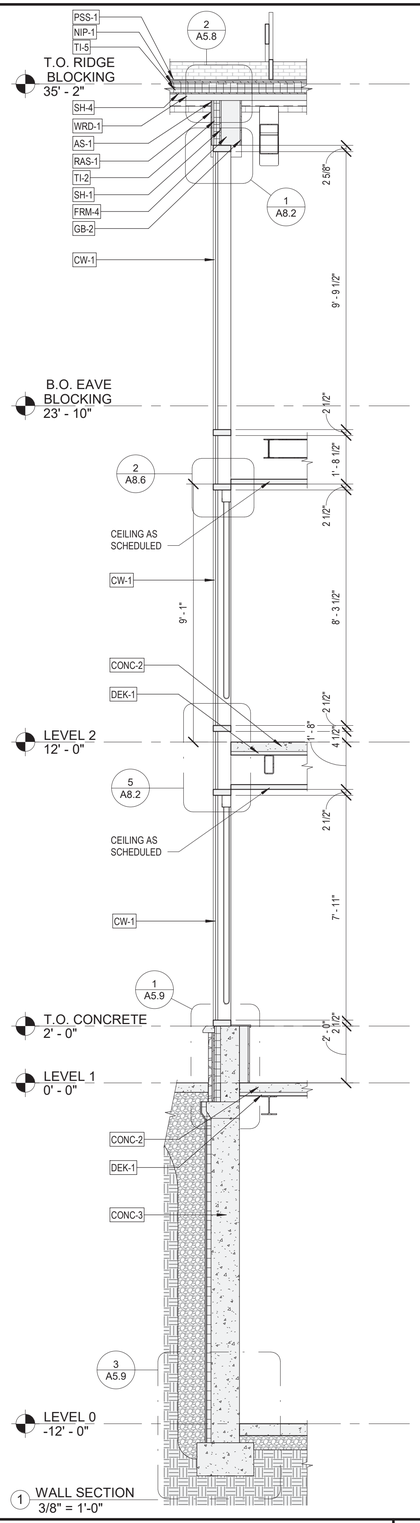
ENGINEERING
Ohio Department of Natural Resources

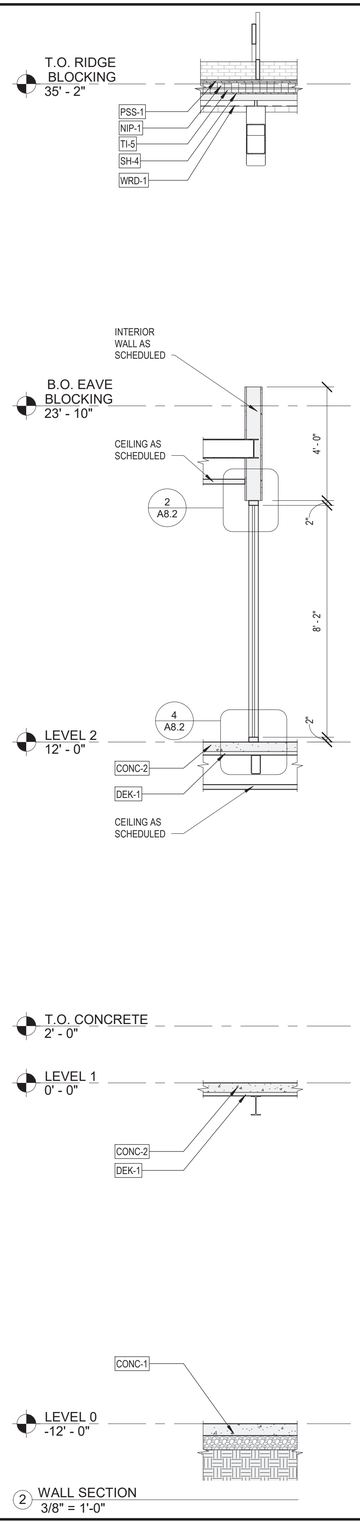
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

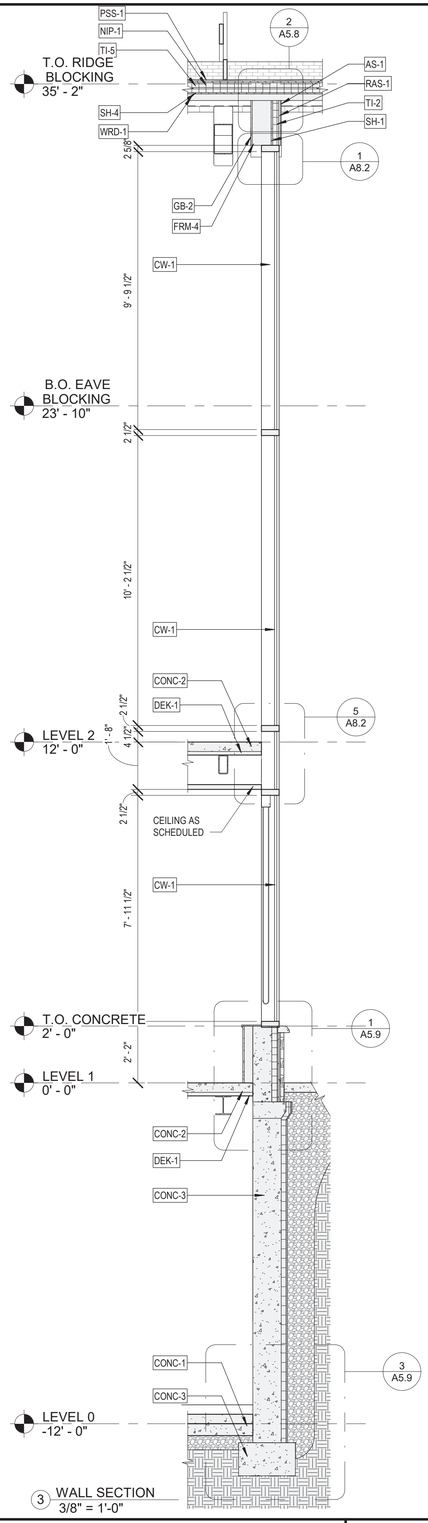
DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

WALL SECTIONS

SHEET NO. **A5.6**







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WALL SECTIONS

SHEET NO. A5.7

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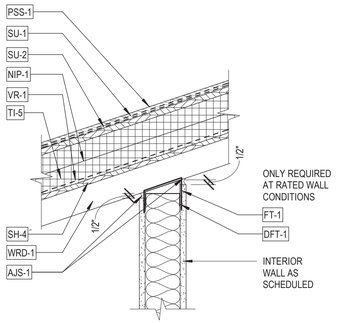
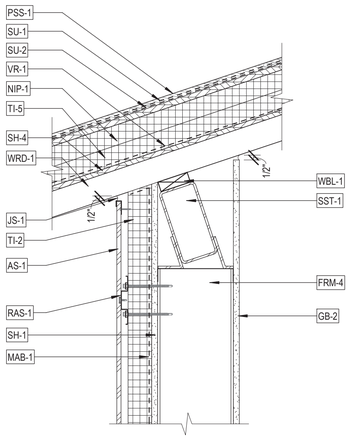
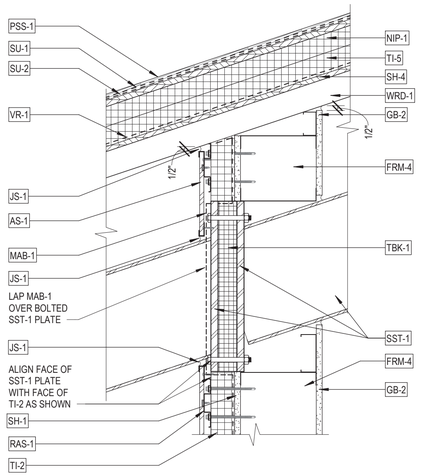


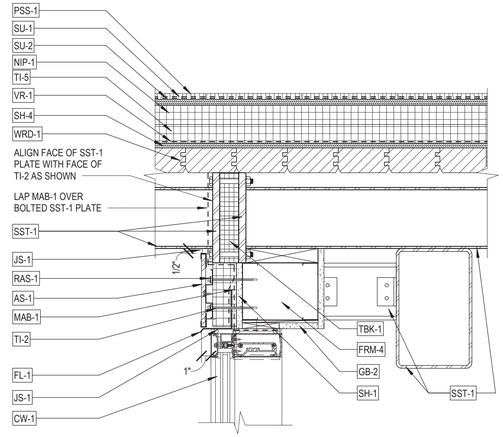
1 SECTION DETAIL - INTERIOR WALL TO ROOF
1 1/2" = 1'-0"



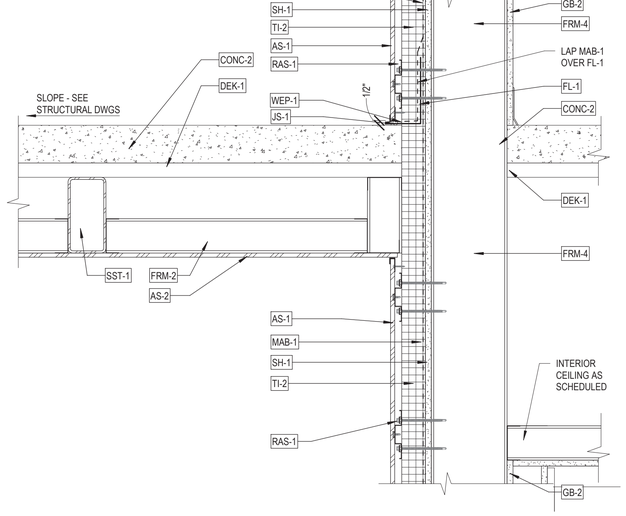
2 SECTION DETAIL - EXTERIOR WALL TO ROOF
1 1/2" = 1'-0"



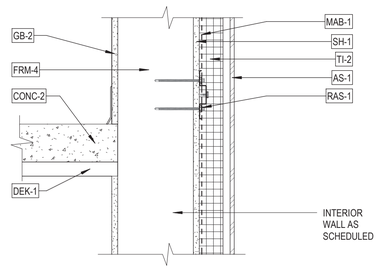
3 ROOF BEAM THERMAL BREAK DETAIL 1
1 1/2" = 1'-0"



4 ROOF BEAM THERMAL BREAK DETAIL 2
1 1/2" = 1'-0"



5 SECTION DETAIL - BASE OF WALL AT BALCONY
1 1/2" = 1'-0"



6 SECTION DETAIL - EXTERIOR WALL
1 1/2" = 1'-0"

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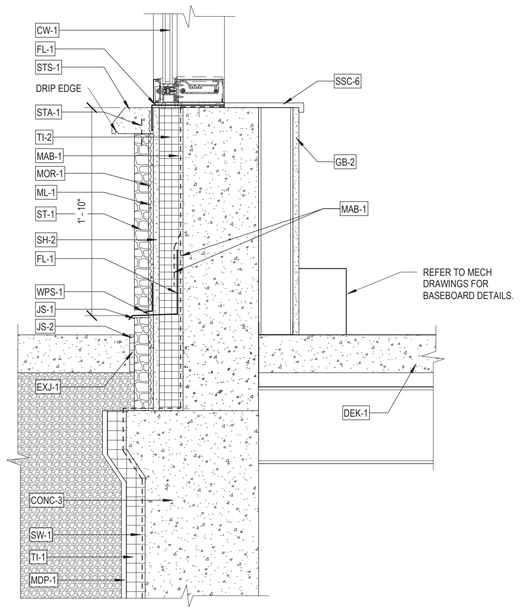
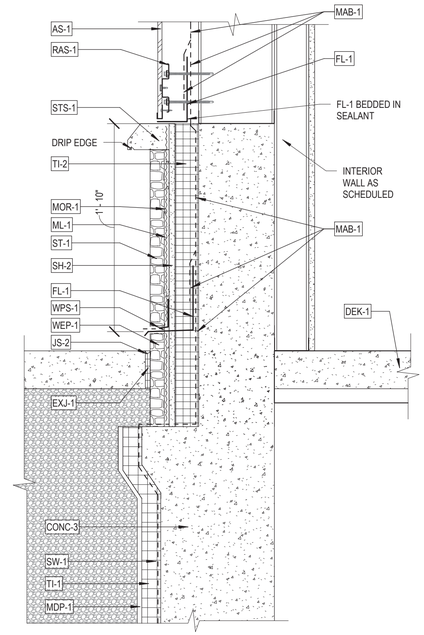
WALL DETAILS

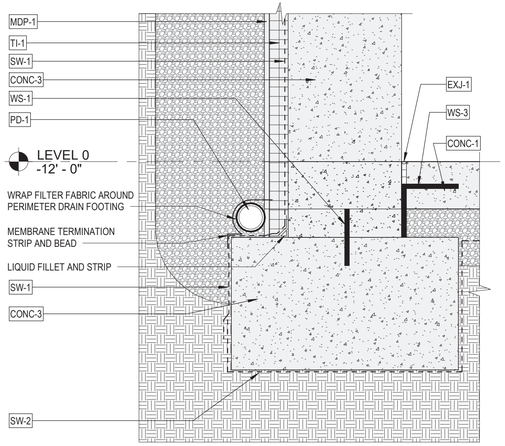
SHEET NO.
A5.8



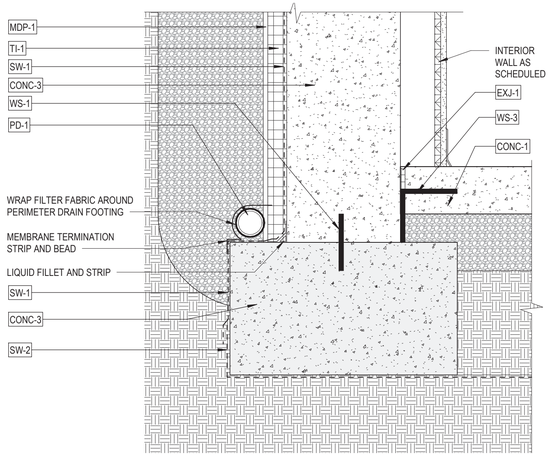
1 SECTION DETAIL - TYPICAL BASE AT CURTAIN WALL
1 1/2" = 1'-0"



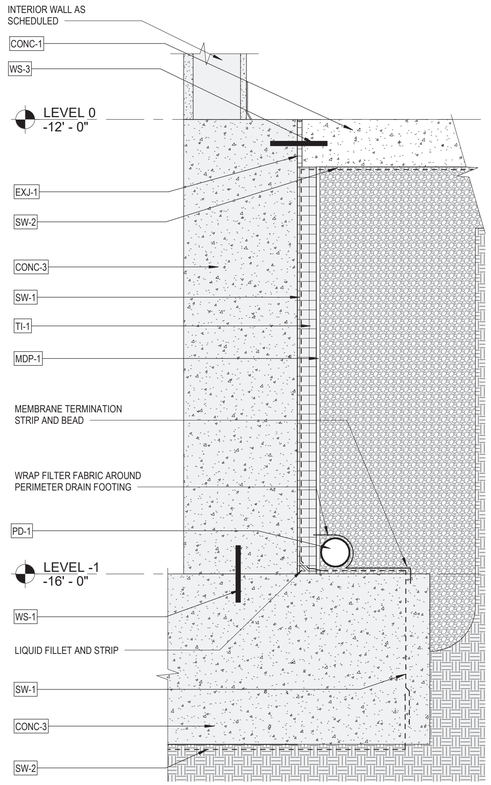
2 SECTION DETAIL - TYPICAL BASE OF WALL
1 1/2" = 1'-0"



3 SECTION DETAIL - TYPICAL FOUNDATION 2
1 1/2" = 1'-0"



4 SECTION DETAIL - TYPICAL FOUNDATION
1 1/2" = 1'-0"



5 SECTION DETAIL - ELEVATOR PIT FOUNDATION
1 1/2" = 1'-0"

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WALL DETAILS

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A5.9

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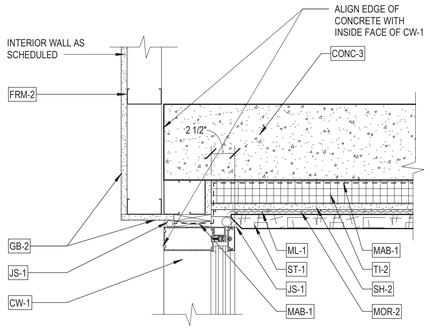
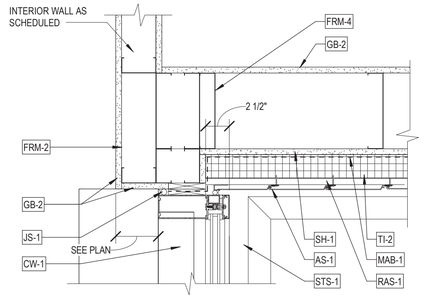
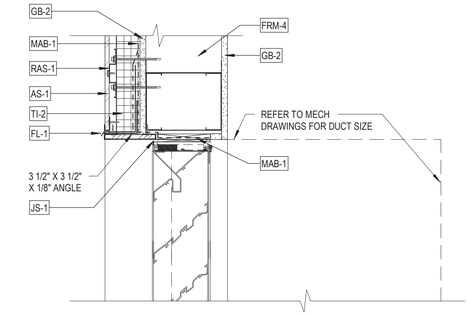
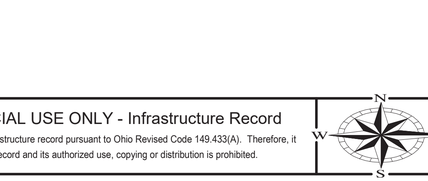


1 PLAN DETAIL - CURTAIN WALL TO EXTERIOR MASONRY WALL CORNER
1 1/2" = 1'-0"



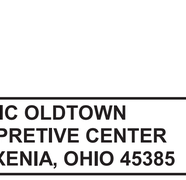
2 PLAN DETAIL - CURTAIN WALL TO EXTERIOR WALL CORNER
1 1/2" = 1'-0"



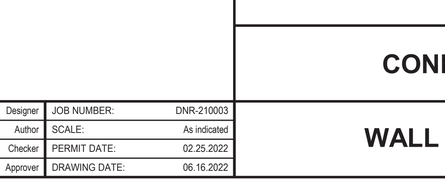


3 PLAN DETAIL - CURTAIN WALL TO EXTERIOR WALL MASONRY
1 1/2" = 1'-0"

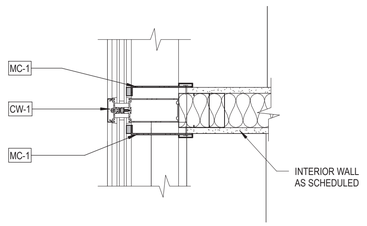
4 PLAN DETAIL - CURTAIN WALL TO EXTERIOR WALL
1 1/2" = 1'-0"



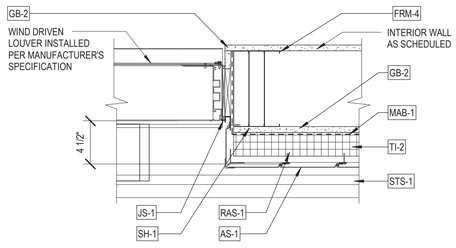
5 PLAN DETAIL - CURTAIN WALL TO INTERIOR WALL
1 1/2" = 1'-0"



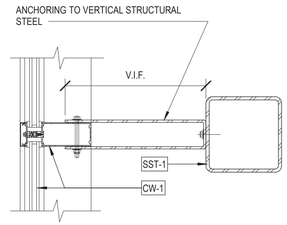
6 SECTION DETAIL - LOUVER
1 1/2" = 1'-0"



7 PLAN DETAIL - WALL TYPE 1 AT GLAZ VERT MUL
1 1/2" = 1'-0"



8 PLAN DETAIL - LOUVER JAMB FLASHING
1 1/2" = 1'-0"



9 PLAN DETAIL - GLAZ VERT MUL AT STRUCTURAL STEEL
1 1/2" = 1'-0"

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A5.10

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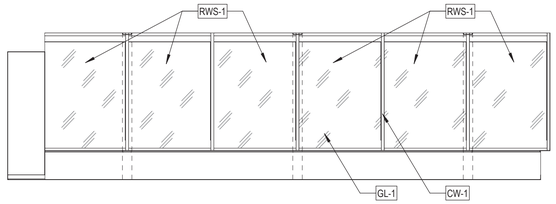
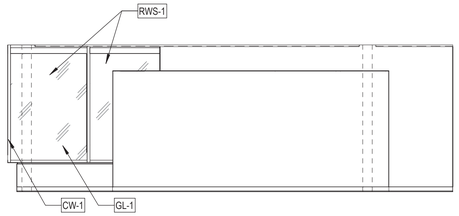
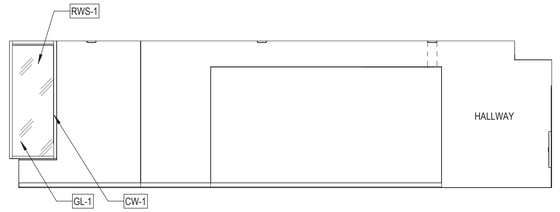


1 INT. ELEVATION - NORTH END - N
3/16" = 1'-0"



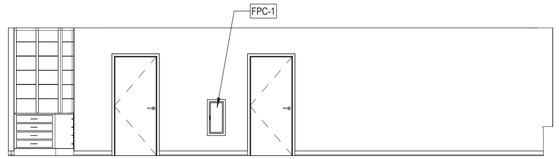
2 INT. ELEVATION - NORTH END - E
3/16" = 1'-0"



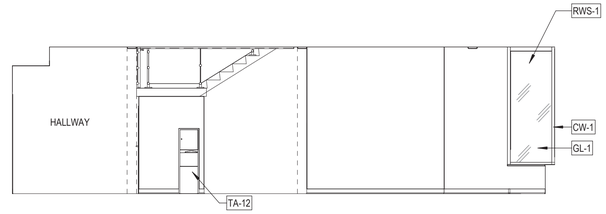
3 INT. ELEVATION - NORTH END - S
3/16" = 1'-0"

4 INT. ELEVATION - THEATER - DISPLAY WALL
3/16" = 1'-0"

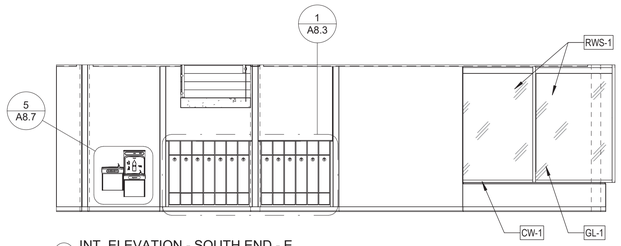
5 INT. ELEVATION - THEATER - SEATING
3/16" = 1'-0"



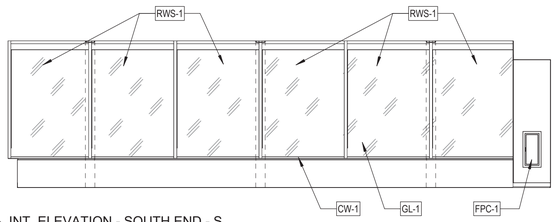
6 INT. ELEVATION - NORTH END - W
3/16" = 1'-0"



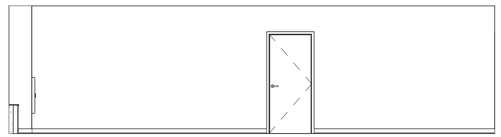
7 INT. ELEVATION - SOUTH END - N
3/16" = 1'-0"



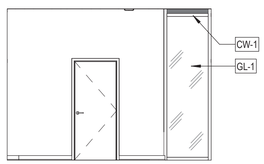
8 INT. ELEVATION - SOUTH END - E
3/16" = 1'-0"



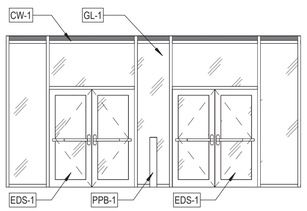
9 INT. ELEVATION - SOUTH END - S
3/16" = 1'-0"



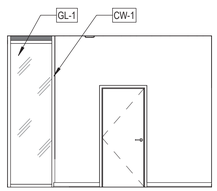
10 INT. ELEVATION - SOUTH END - W
3/16" = 1'-0"



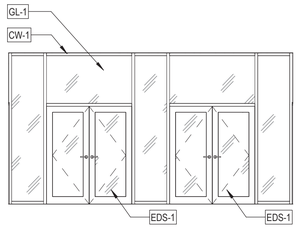
11 INT. ELEVATION - ENTRANCE VESTIBULE - N
3/16" = 1'-0"



12 INT. ELEVATION - ENTRANCE VESTIBULE - E
3/16" = 1'-0"



13 INT. ELEVATION - ENTRANCE VESTIBULE - S
3/16" = 1'-0"



14 INT. ELEVATION - ENTRANCE VESTIBULE - W
3/16" = 1'-0"

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INTERIOR ELEVATIONS

SHEET NO.
A6.0

CASEWORK SCHEDULE					
NUMBER	DEPTH	WIDTH	HEIGHT	FINISH	QUANTITY
A	1' - 0"	2' - 9"	2' - 6"	PL-2	2
B	2' - 0"	4' - 0"	2' - 10 1/2"	PL-1	1
C	2' - 0"	2' - 6"	2' - 10 1/2"	PL-1	1
D	2' - 0"	2' - 0"	2' - 10 1/2"	PL-1	1

GENERAL NOTES

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5. REFER A0.9 FOR MATERIAL INFORMATION.
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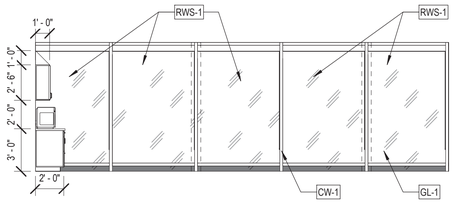
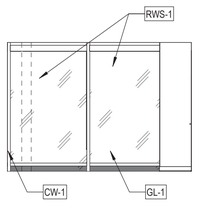
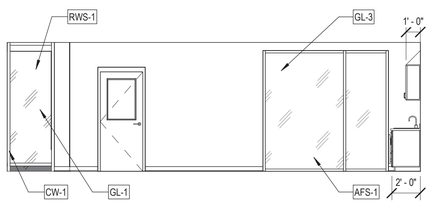


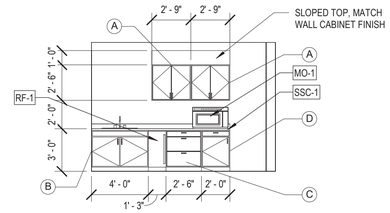
1 INT. ELEVATION - CONFERENCE ROOM - N
3/16" = 1'-0"



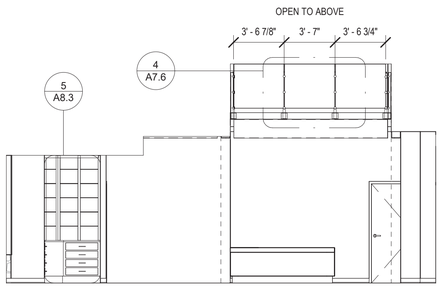
2 INT. ELEVATION - CONFERENCE ROOM - E
3/16" = 1'-0"



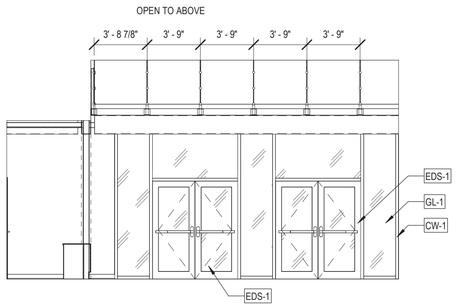
3 INT. ELEVATION - CONFERENCE ROOM - S
3/16" = 1'-0"



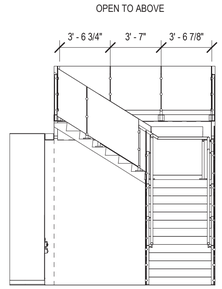
4 INT. ELEVATION - CONFERENCE ROOM - W
3/16" = 1'-0"



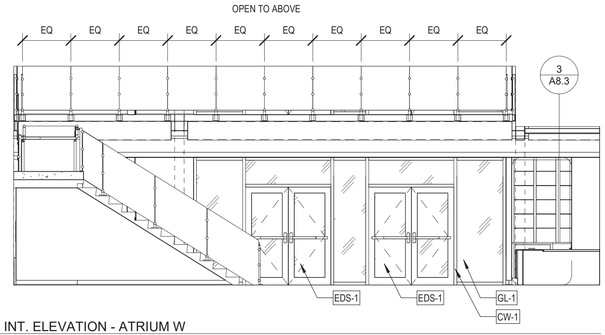
5 INT. ELEVATION - ATRIUM- N
3/16" = 1'-0"



6 Elevation 5 - a
3/16" = 1'-0"



7 INT. ELEVATION - ATRIUM - S
3/16" = 1'-0"



8 INT. ELEVATION - ATRIUM W
3/16" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

INTERIOR ELEVATIONS

SHEET NO.
A6.1

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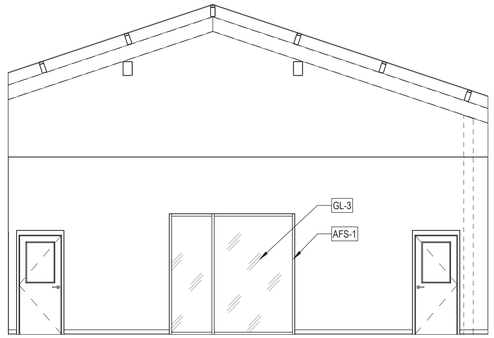
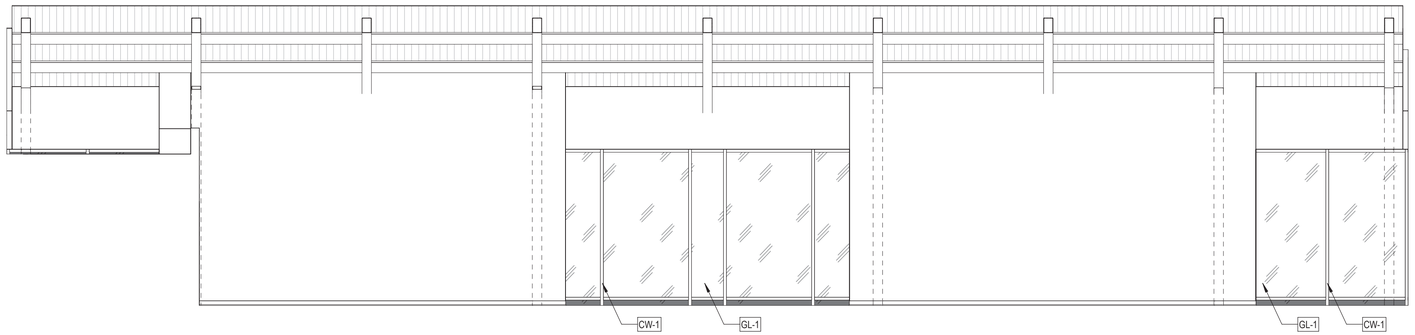
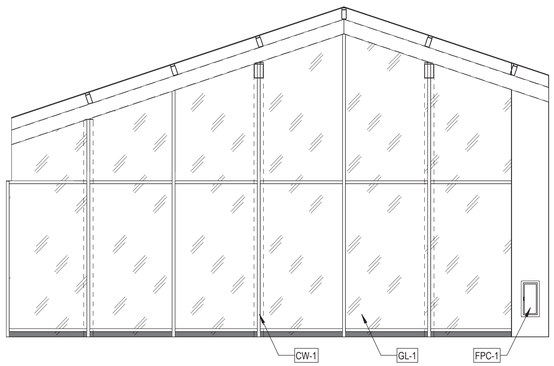


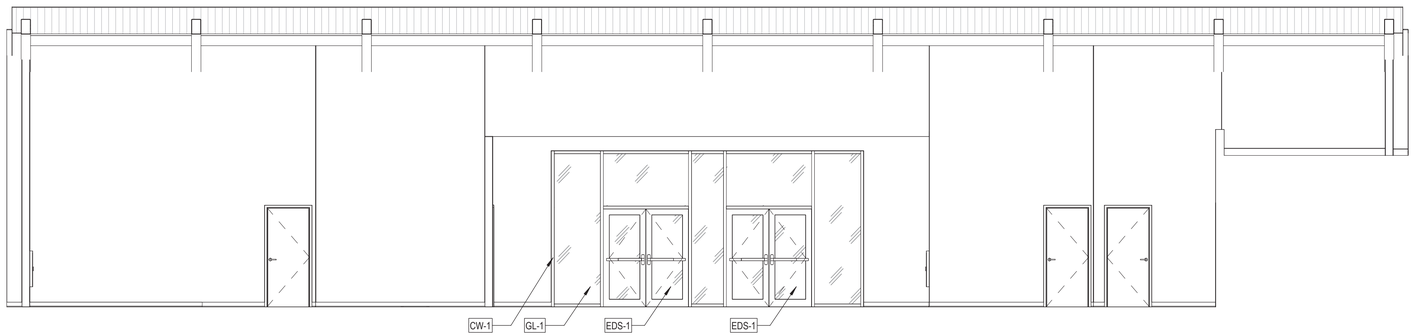
1 INT. ELEVATION - LEVEL 2 - N
3/16" = 1'-0"



2 INT. ELEVATION - LEVEL 2 - E
3/16" = 1'-0"



3 INT. ELEVATION - LEVEL 2 - S
3/16" = 1'-0"



4 INT. ELEVATION - LEVEL 2 - W
3/16" = 1'-0"

REVISIONS
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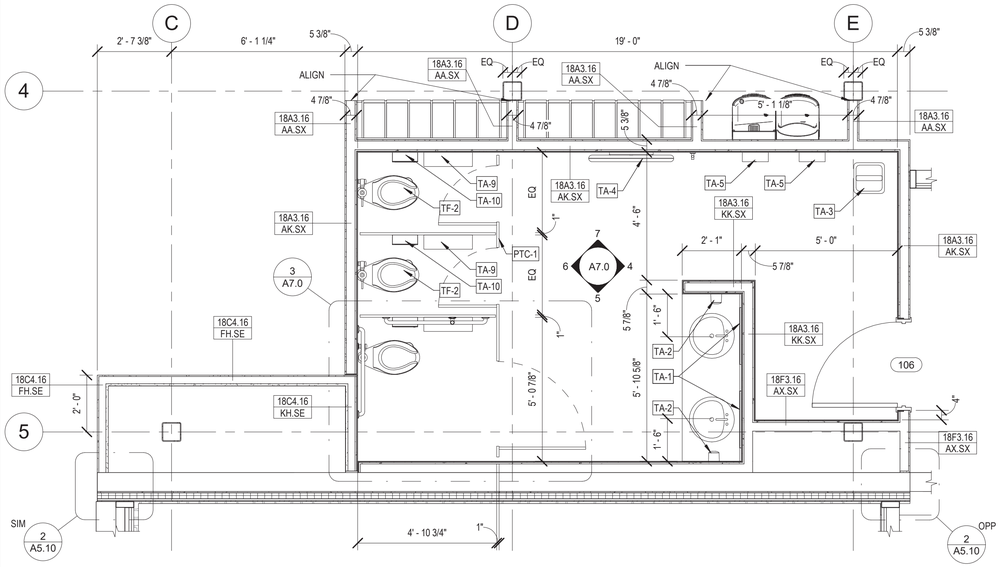
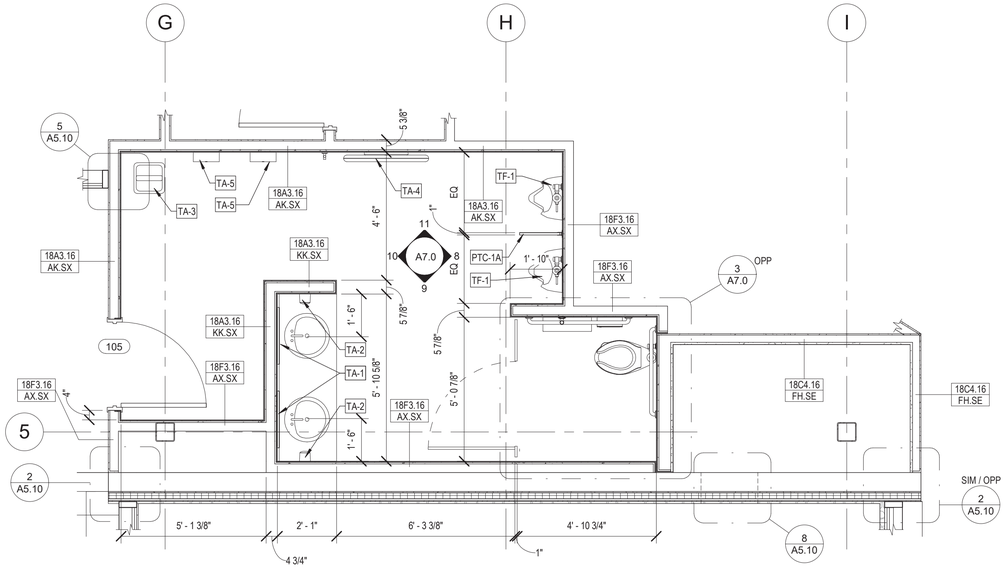
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

INTERIOR ELEVATIONS

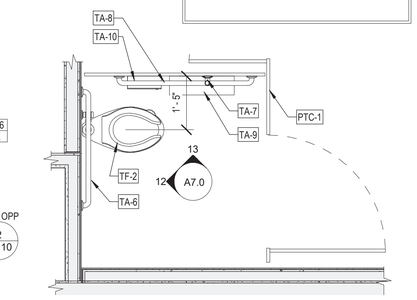
SHEET NO.
A6.2



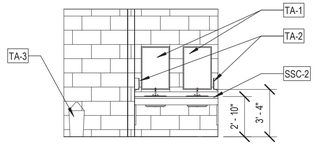
1 ENLARGED PLAN - WOMEN'S RESTROOM
3/8" = 1'-0"



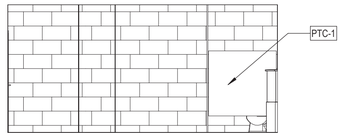
2 ENLARGED PLAN - MEN'S RESTROOM
3/8" = 1'-0"



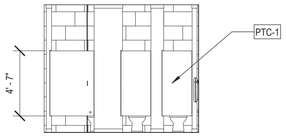
3 ENLARGED PLAN - ADA TOILET
1/2" = 1'-0"



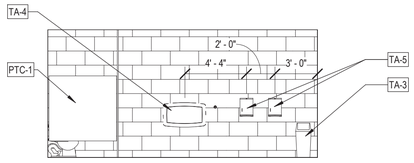
4 INT. ELEVATION - WOMEN'S RR - N
3/16" = 1'-0"



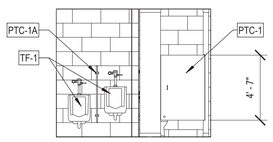
5 INT. ELEVATION - WOMEN'S RR - E
3/16" = 1'-0"



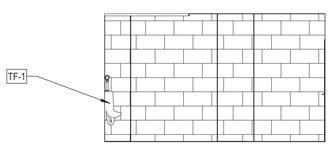
6 INT. ELEVATION - WOMEN'S RR - S
3/16" = 1'-0"



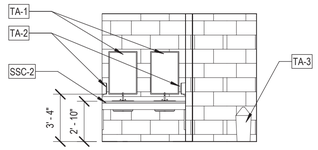
7 INT. ELEVATION - WOMEN'S RR - W
3/16" = 1'-0"



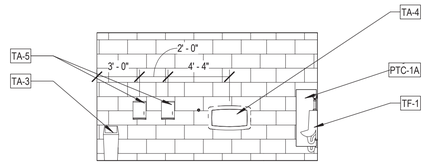
8 INT. ELEVATION - MEN'S RR - NORTH
3/16" = 1'-0"



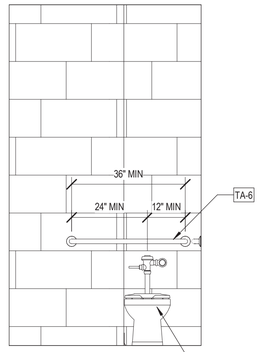
9 INT. ELEVATION - MEN'S RR - EAST
3/16" = 1'-0"



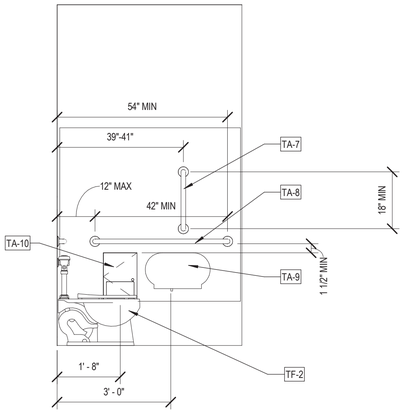
10 INT. ELEVATION - MEN'S RR - SOUTH
3/16" = 1'-0"



11 INT. ELEVATION - MEN'S RR - WEST
3/16" = 1'-0"



12 INT. ELEVATION - TYPICAL ADA RESTROOM
1/2" = 1'-0"



13 INT. ELEVATION - TYPICAL ADA RESTROOM
1/2" = 1'-0"

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HISTORIC OLDTOWN
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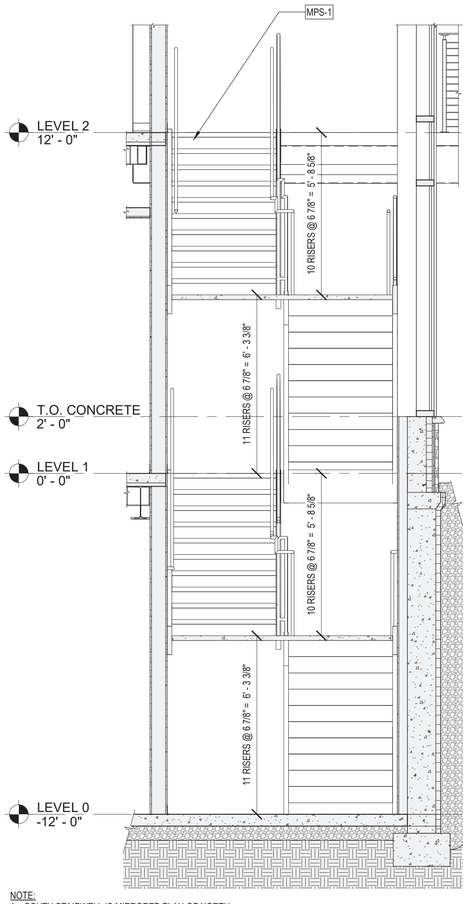
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

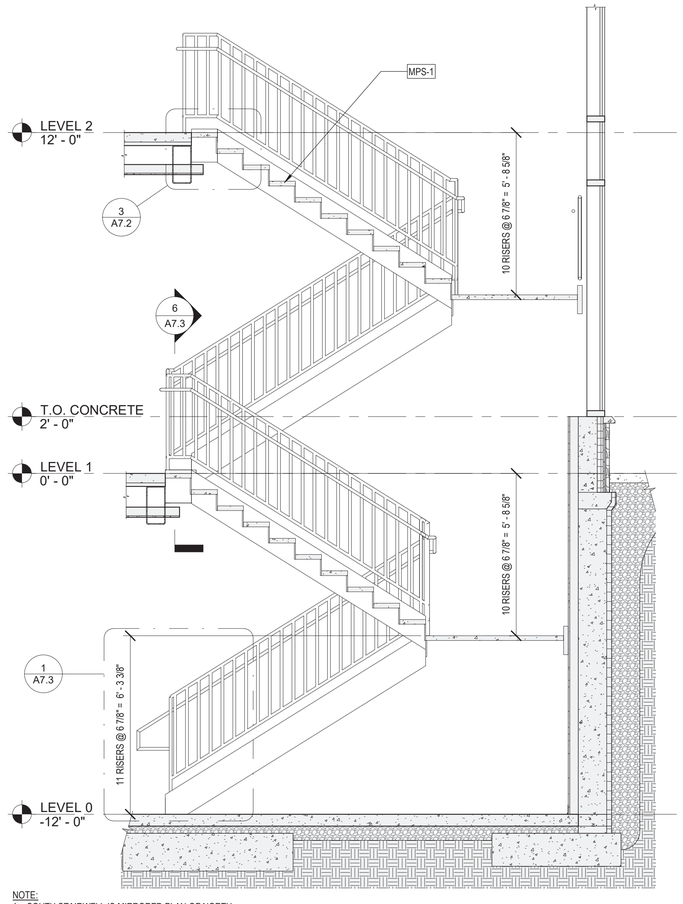
RESTROOM PLANS AND ELEVATIONS

SHEET NO.
A7.0



NOTE:
1. SOUTH STAIRWELL IS MIRRORED PLAN OF NORTH STAIRWELL.
2. NO VISIBLE HANGERS OR COLUMNS FOR STAIR SUPPORT ARE PERMITTED. STAIR SUPPORTS TO BE FULLY CONCEALED.

4 ENLARGED SECTION - EW NORTH STAIRWELL
3/8" = 1'-0"



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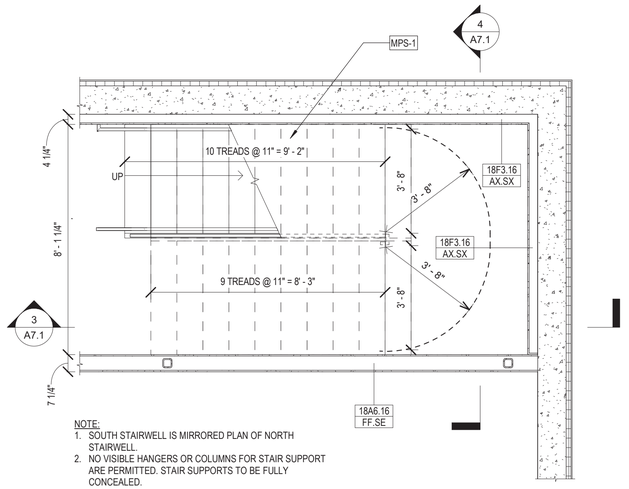
3 ENLARGED SECTION - NS NORTH STAIRWELL
3/8" = 1'-0"



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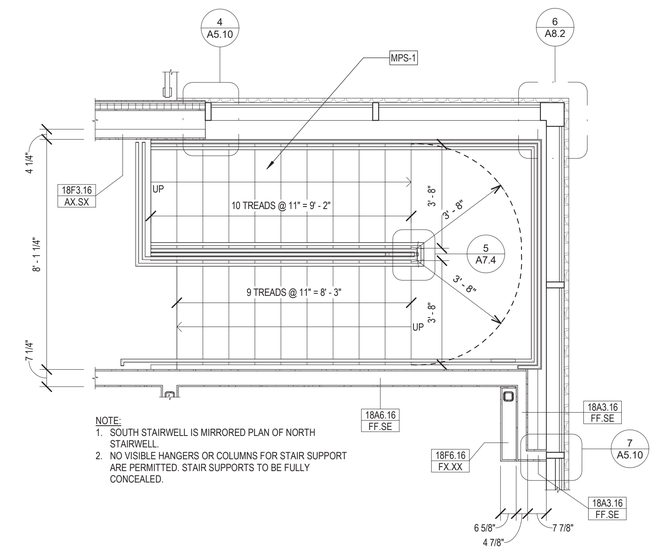
1 ENLARGED PLAN - FLOOR 1 STAIRWELL
3/8" = 1'-0"



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2 ENLARGED PLAN - FLOOR 2 STAIRWELL
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ENCLOSED STAIR PLANS AND SECTIONS

SHEET NO.
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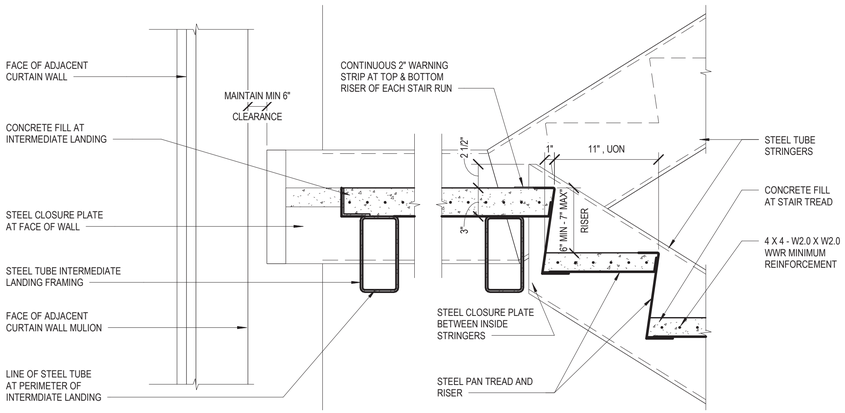
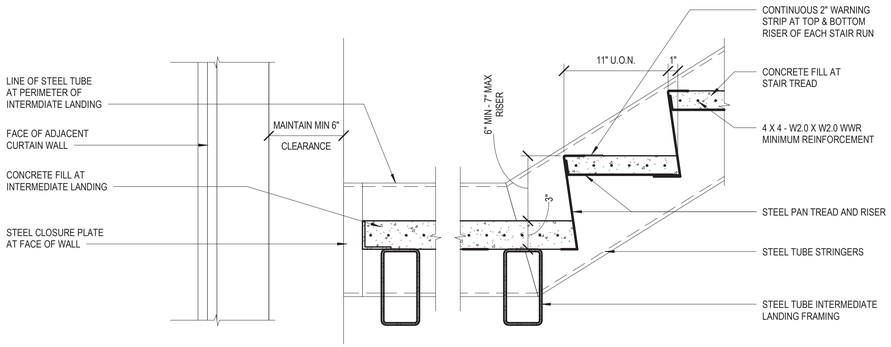


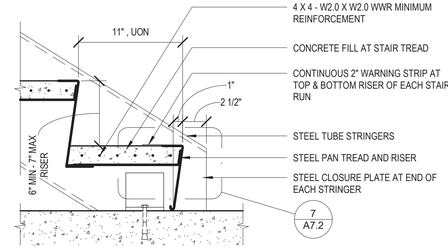
1 SECTION DETAIL - STAIR TOP AT INTERMEDIATE LANDING
1 1/2" = 1'-0"



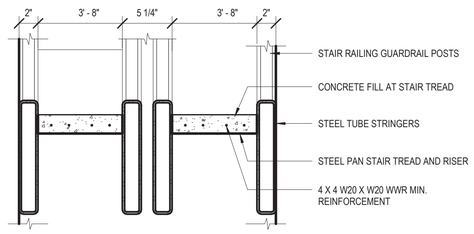
2 SECTION DETAIL - STAIR BOTTOM AT INTERMEDIATE LANDING
1 1/2" = 1'-0"

3 DETAIL SECTION - STAIR TOP AT DECK FLOOR
1 1/2" = 1'-0"

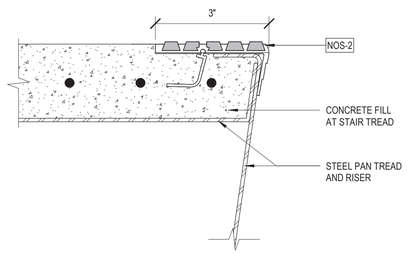
4 SECTION DETAIL - STAIR BOTTOM AT DECK FLOOR
1 1/2" = 1'-0"



5 SECTION DETAIL - STAIR AT FOUNDATION FLOOR
1 1/2" = 1'-0"



6 SECTION DETAIL - STAIR CROSS SECTION
1 1/2" = 1'-0"



7 SECTION DETAIL - ENCLOSED STAIR NOSING
6" = 1'-0"

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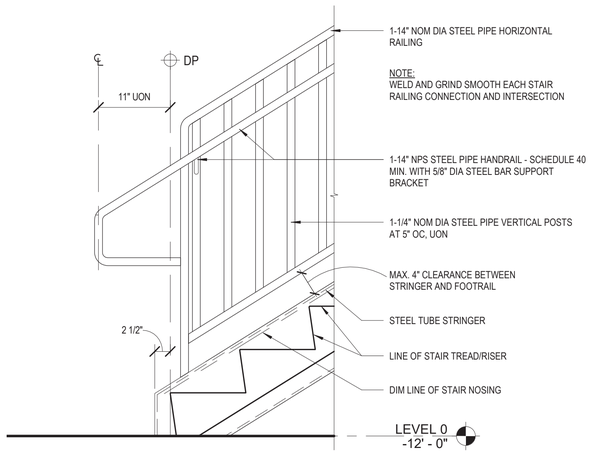
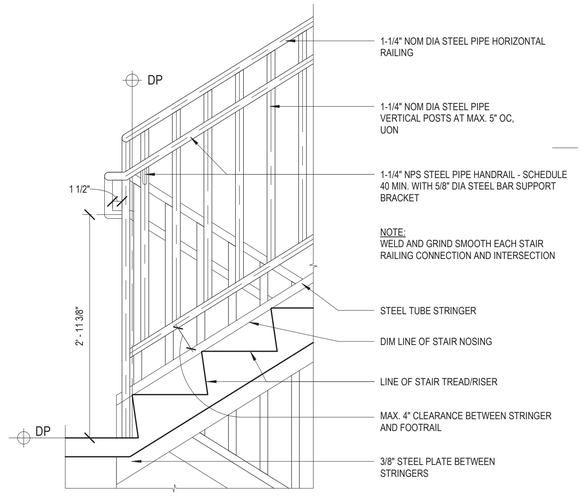
ENCLOSED STAIR DETAILS

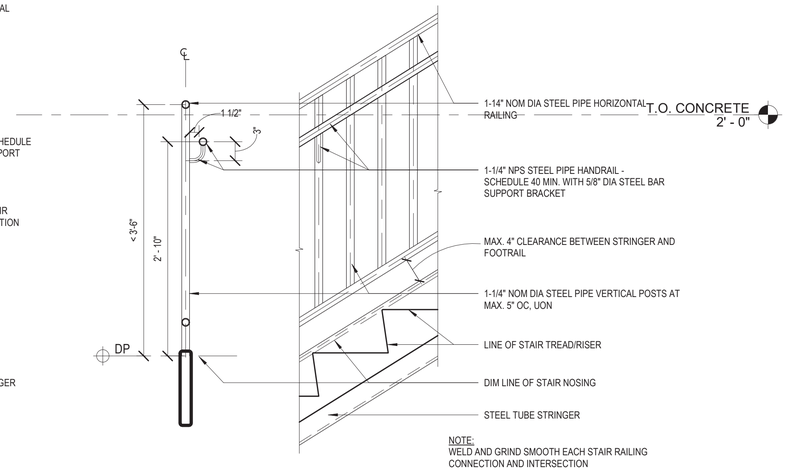
SHEET NO.
A7.2



1 STAIR RAIL TRANSITION AT BOTTOM STAIR
1" = 1'-0"



2 STAIR RAILING TRANSITION AT INTERMEDIATE LANDINGS
1" = 1'-0"



3 STAIR GUARDRAIL SECTION & ELEVATION
1" = 1'-0"

GENERAL NOTES

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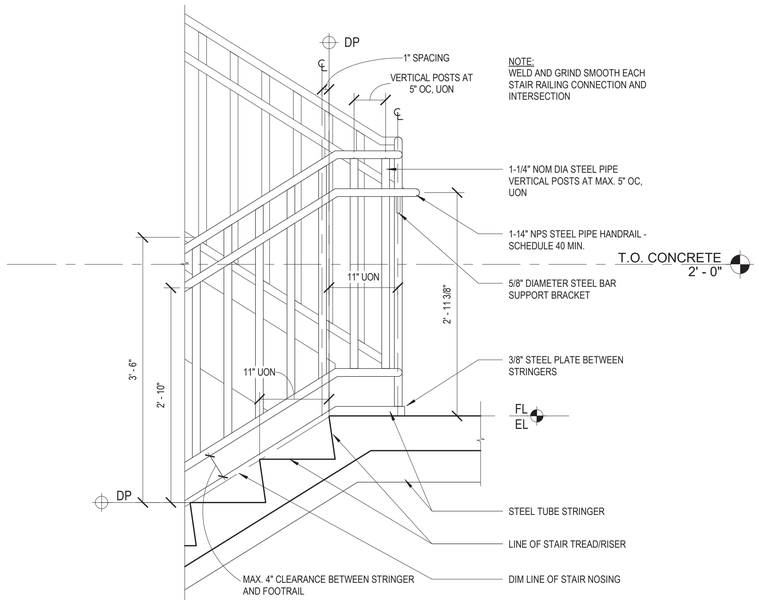
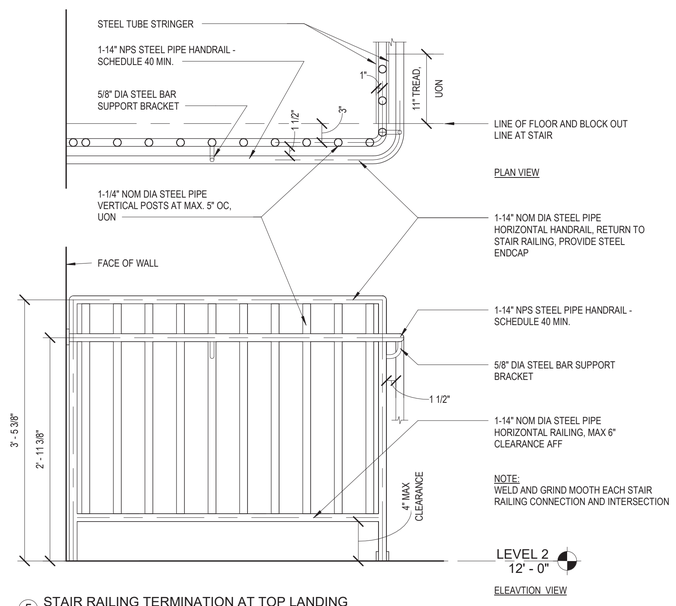
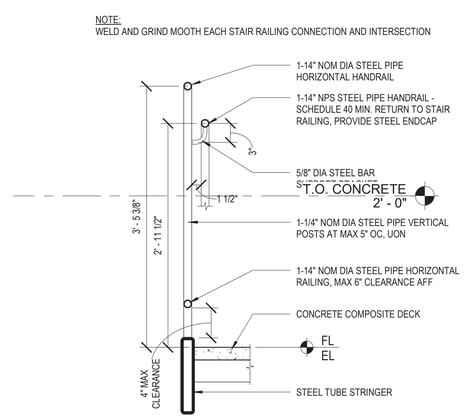
5. REFER A0.9 FOR MATERIAL INFORMATION.
6. COORDINATE ALL EQUIPMENT ROUGH OPENINGS WITH EQUIPMENT MANUFACTURER.



4 STAIR RAILING TRANSITION AT LANDINGS
1" = 1'-0"



5 STAIR RAILING TERMINATION AT TOP LANDING
1" = 1'-0"



6 STAIR GUARDRAIL SECTION
1" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

PIPE HANDRAIL DETAILS

SHEET NO.
A7.3

GENERAL NOTES

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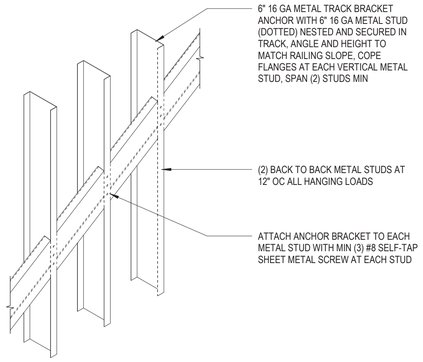
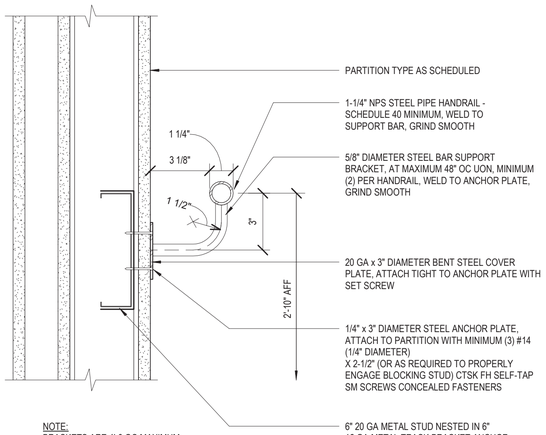
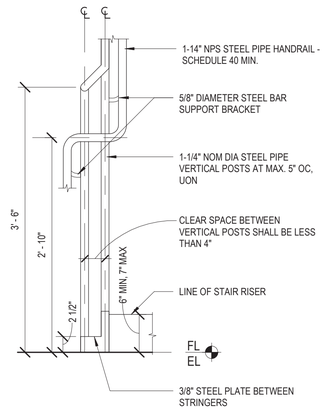


1 RAILING NESTING BLOCK
1" = 1'-0"



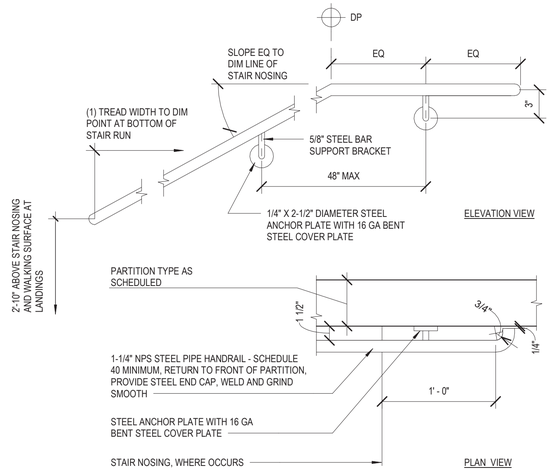
NOTE:
BRACKETS ARE 4'-0 OC MAXIMUM

2 HANDRAIL DETAIL AT STUD WALL
3" = 1'-0"



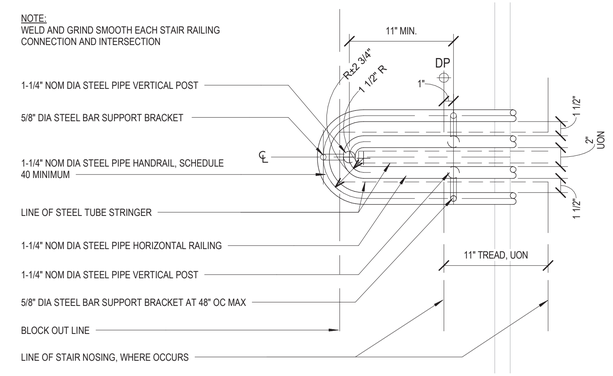
NOTE:
WELD AND GRIND SMOOTH EACH STAIR RAILING CONNECTION AND INTERSECTION

3 STAIR RAILING TRANSITION AT LANDINGS
1" = 1'-0"



4 HANDRAIL AT STAIR
1 1/2" = 1'-0"

NOTE:
WELD AND GRIND SMOOTH EACH STAIR RAILING CONNECTION AND INTERSECTION



5 STAIR RAILING TRANSITION AT LANDING
1 1/2" = 1'-0"

REVISIONS
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PIPE HANDRAIL DETAILS

SHEET NO. A7.4

GENERAL NOTES

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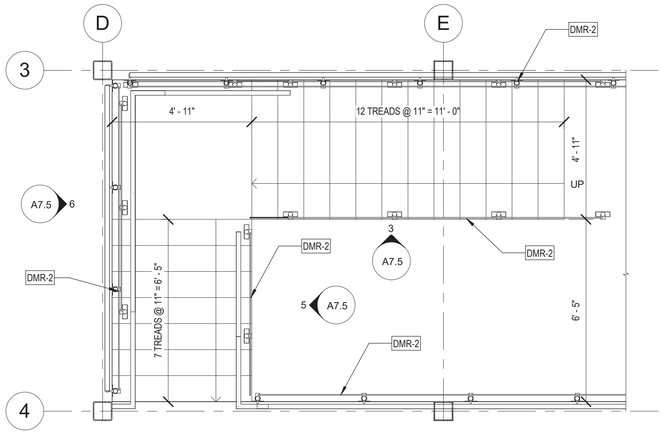
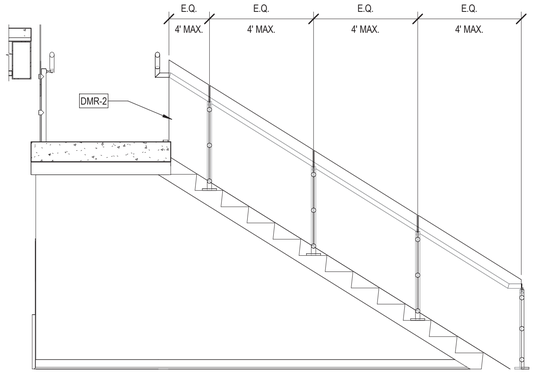
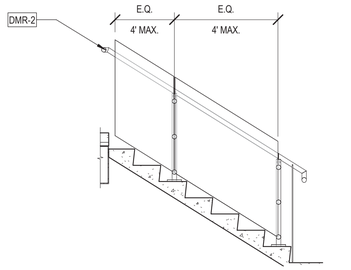


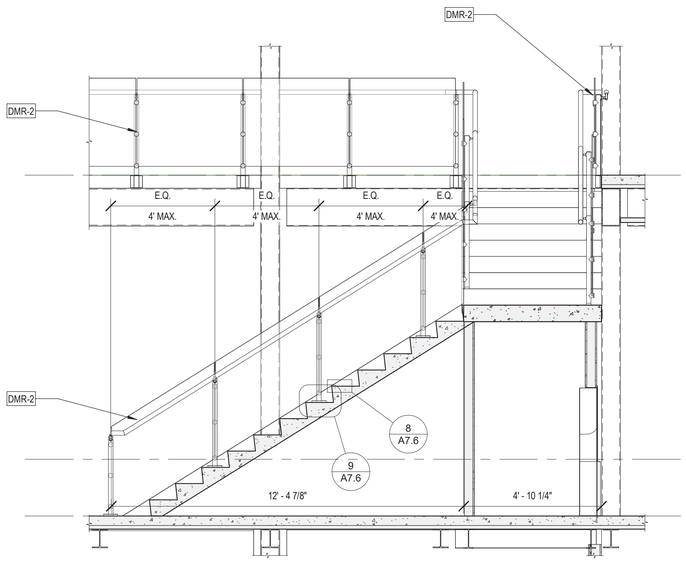
1 ENLARGED PLAN - ATRIUM STAIR
3/8" = 1'-0"



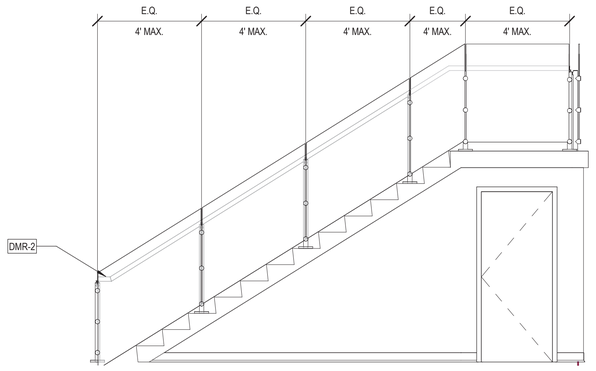
3 INT. ELEVATION - ATRIUM STAIRS S
3/8" = 1'-0"



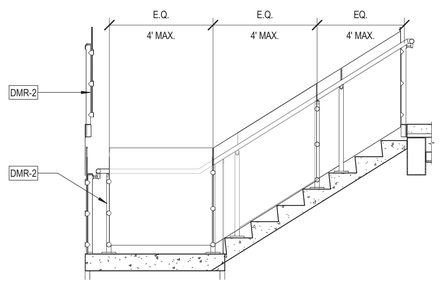
5 INT. ELEVATION - ATRIUM STAIRS E
3/8" = 1'-0"



2 ENLARGED SECTION - NS ATRIUM STAIR
3/8" = 1'-0"



4 INT. ELEVATION - ATRIUM STAIRS N
3/8" = 1'-0"



6 INT. ELEVATION - ATRIUM STAIRS W
3/8" = 1'-0"

REVISIONS
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ATRIUM STAIR PLANS AND ELEVATIONS

SHEET NO.
A7.5

GENERAL NOTES

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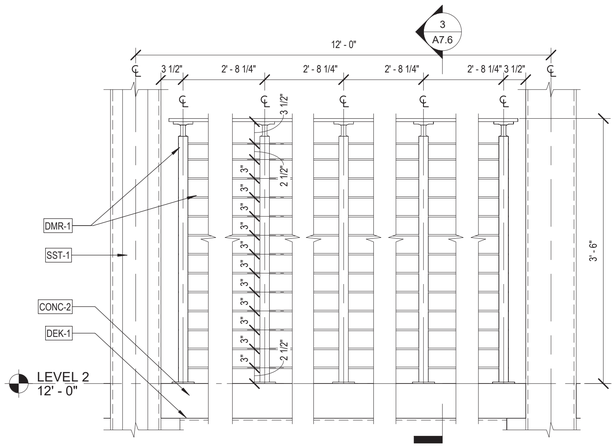
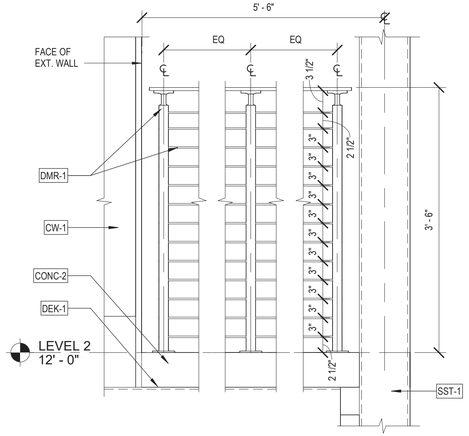
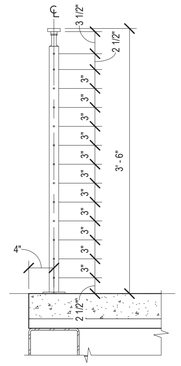


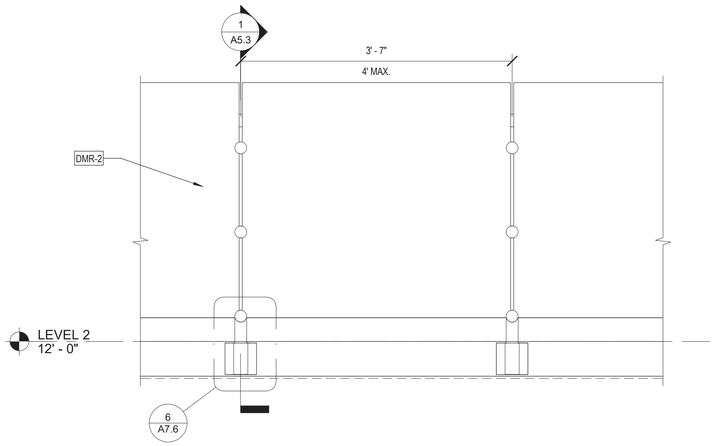
1 ENLARGED ELEVATION - BALCONY RAILING AT STRUCTURAL FRAMING
1" = 1'-0"



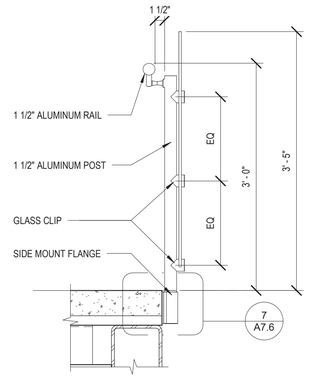
2 ENLARGED ELEVATION - BALCONY RAILING AT EXT. WALL
1" = 1'-0"



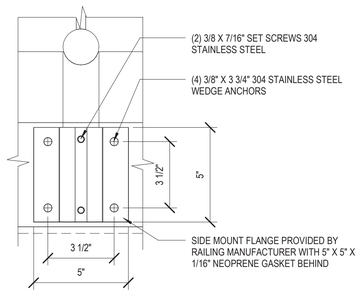
3 SECTION DETAIL - BALCONY GUARDRAIL
1" = 1'-0"



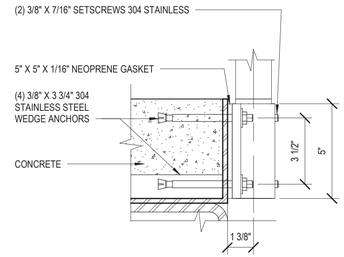
4 ENLARGED ELEVATION - TYP. ATRIUM GUARDRAIL
1" = 1'-0"



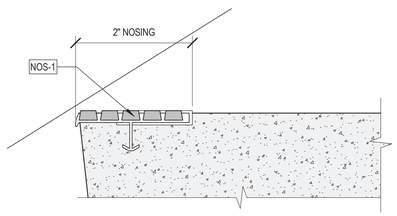
5 SECTION DETAIL - ATRIUM GUARDRAIL
1" = 1'-0"



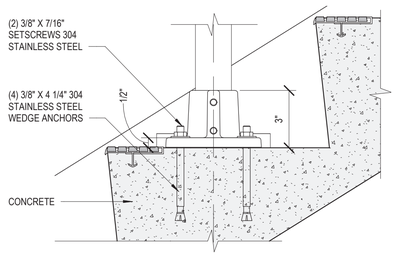
6 DETAIL - TYP. ATRIUM GUARD RAIL MOUNT
3" = 1'-0"



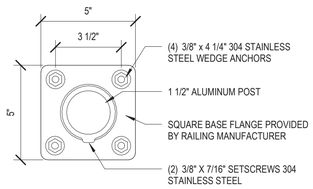
7 SECTION DETAIL - ATRIUM GUARD RAIL MOUNT
3" = 1'-0"



8 SECTION DETAIL - STAIR SLIP-RESISTANT BAR DETAIL TYPICAL
6" = 1'-0"



9 SECTION DETAIL - ATRIUM STAIR BASE FLANGE DETAIL
3" = 1'-0"



10 DETAIL - ATRIUM STAIR BASE FLANGE DETAIL
3" = 1'-0"

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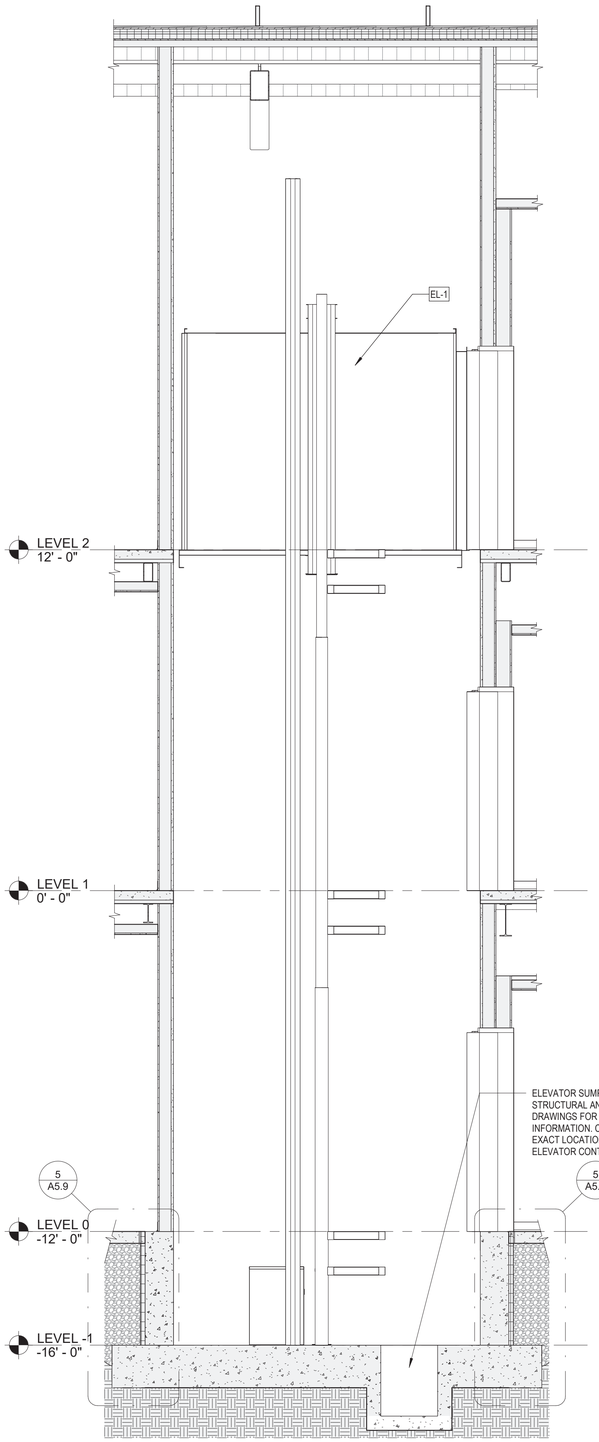
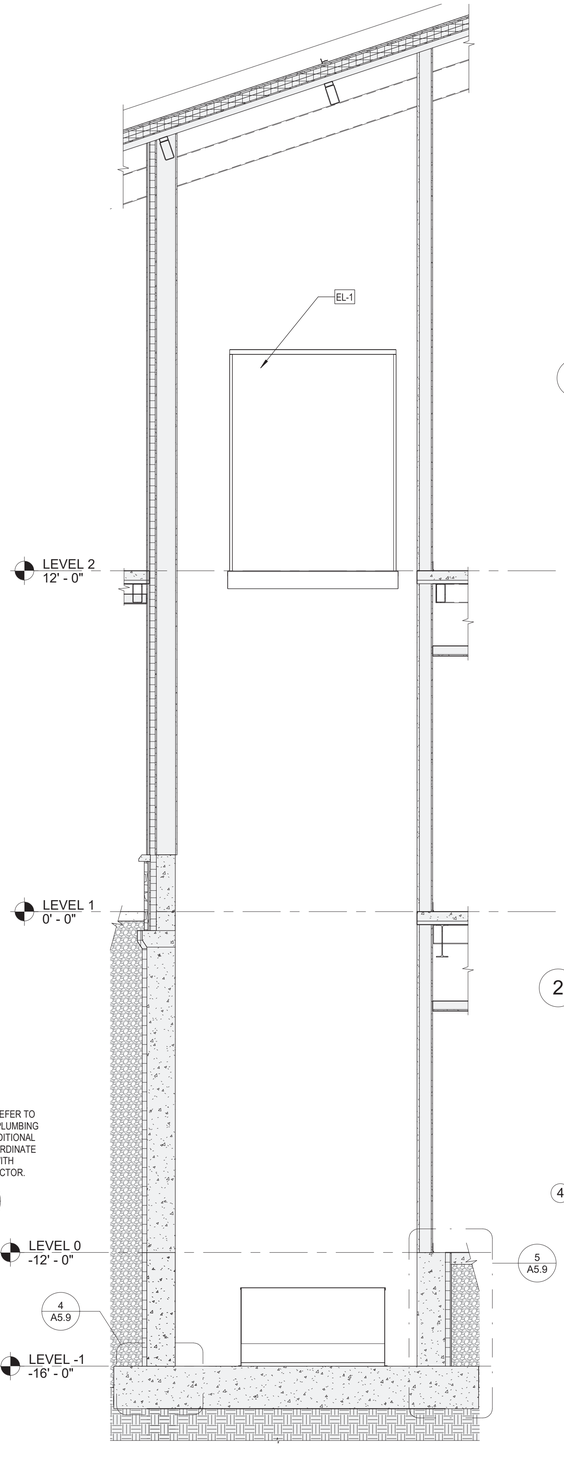
GLASS HANDRAIL AND BALCONY RAILING DETAILS

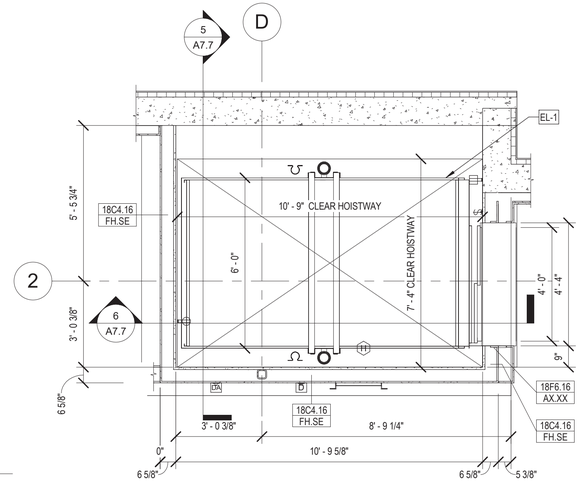
SHEET NO. **A7.6**



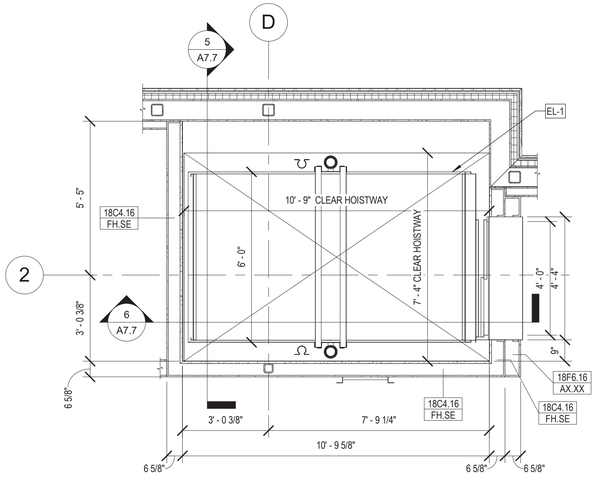
6 SECTION DETAIL - ELEVATOR NORTH-SOUTH
3/8" = 1'-0"



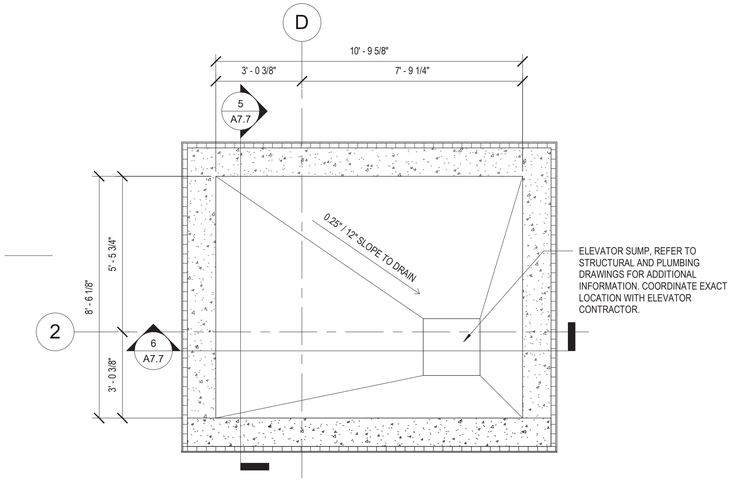
5 SECTION DETAIL - ELEVATOR EAST-WEST
3/8" = 1'-0"



3 ENLARGED PLAN - ELEVATOR HOISTWAY - LEVEL 0
3/8" = 1'-0"



1 ENLARGED PLAN - ELEVATOR HOISTWAY - LEVEL 1 AND 2
3/8" = 1'-0"



4 ENLARGED PLAN - ELEVATOR SUMP
3/8" = 1'-0"

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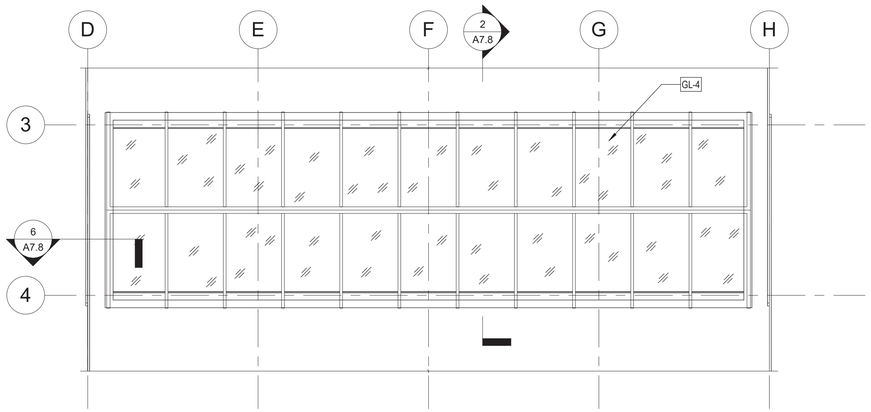
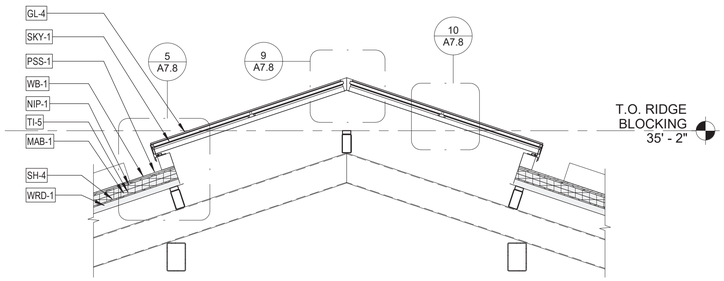
ELEVATOR PLANS AND DETAILS

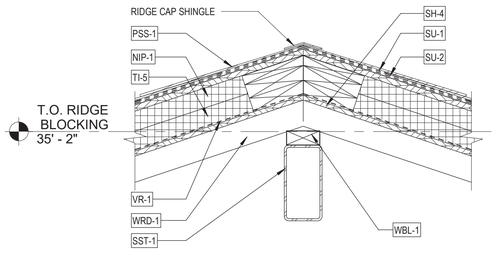
SHEET NO. A7.7



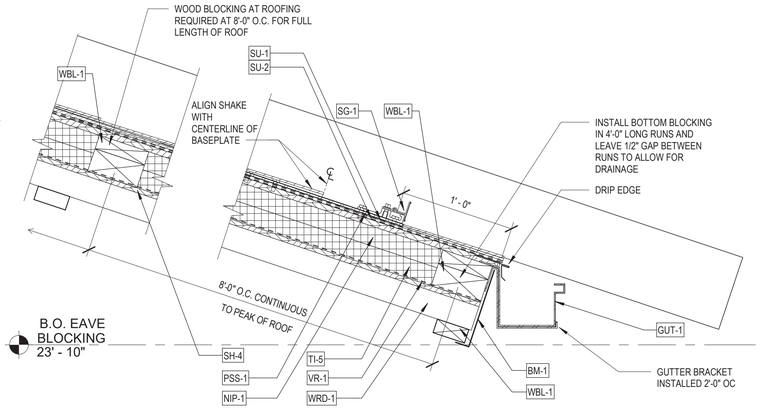
1 ENLARGED PLAN - SKYLIGHT
3/16" = 1'-0"



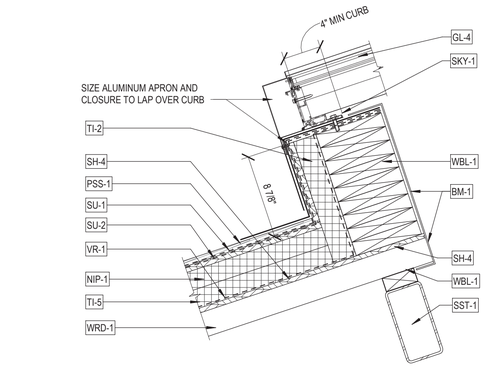
2 SECTION DETAIL - SKYLIGHT
3/8" = 1'-0"



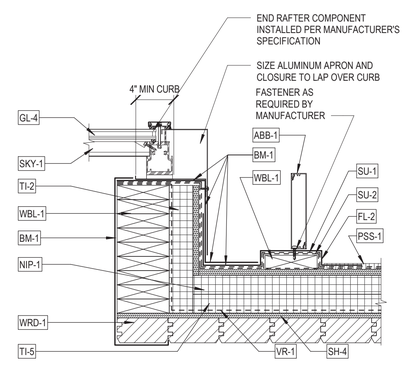
3 SECTION DETAIL - ROOF RIDGE
1 1/2" = 1'-0"



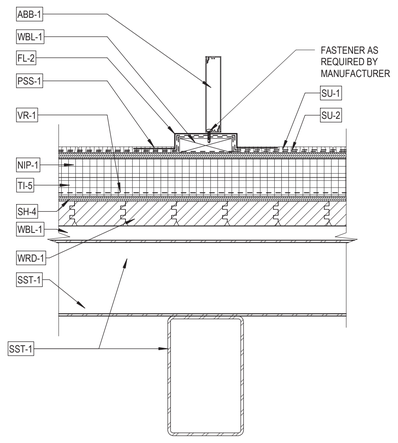
4 SECTION DETAIL - ROOF EAVES
1 1/2" = 1'-0"



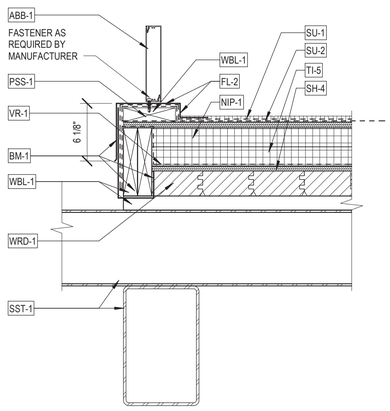
5 SECTION DETAIL - SKYLIGHT SILL
1 1/2" = 1'-0"



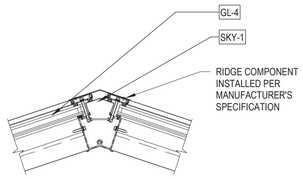
6 SECTION DETAIL - SKYLIGHT END RAFTER
1 1/2" = 1'-0"



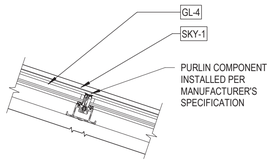
7 SECTION DETAIL - DECORATIVE ROOF BEAM
1 1/2" = 1'-0"



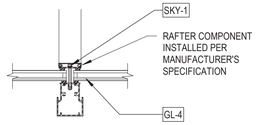
8 SECTION DETAIL - ROOF TERMINATION DETAIL
1 1/2" = 1'-0"



9 SECTION DETAIL - SKYLIGHT RIDGE
1 1/2" = 1'-0"



10 DETAIL SECTION - SKYLIGHT PURLIN
1 1/2" = 1'-0"



11 SECTION DETAIL - SKYLIGHT RAFTER
1 1/2" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

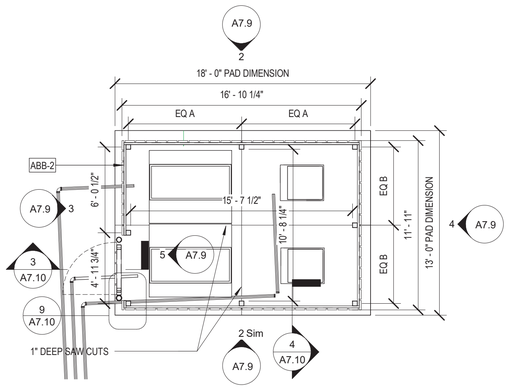
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

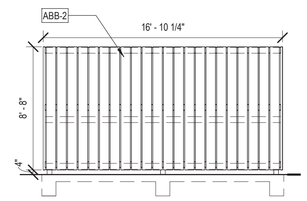
DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

SKYLIGHT AND ROOF DETAILS

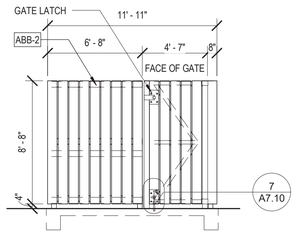
SHEET NO.
A7.8



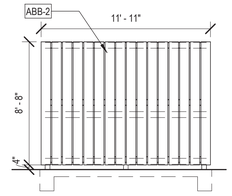
1 ENLARGED PLAN - CONDENSER ENCLOSURE
3/16" = 1'-0"



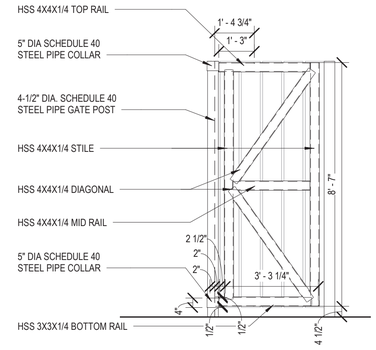
2 ELEVATION - CONDENSER ENCLOSURE - E, W
3/16" = 1'-0"



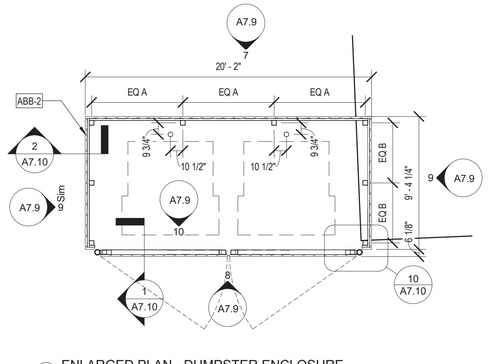
3 ELEVATION - CONDENSER ENCLOSURE S
3/16" = 1'-0"



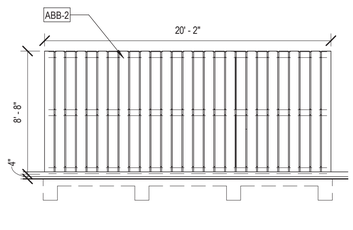
4 ELEVATION - CONDENSER ENCLOSURE - N
3/16" = 1'-0"



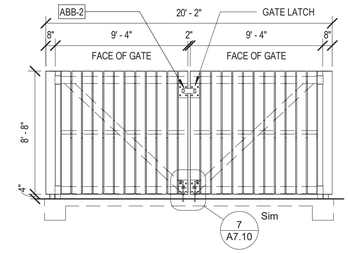
5 ELEVATION DETAIL - GATE DOOR FRAMING
3/8" = 1'-0"



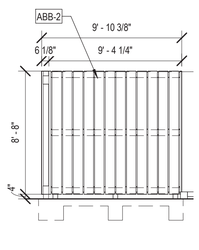
6 ENLARGED PLAN - DUMPSTER ENCLOSURE
3/16" = 1'-0"



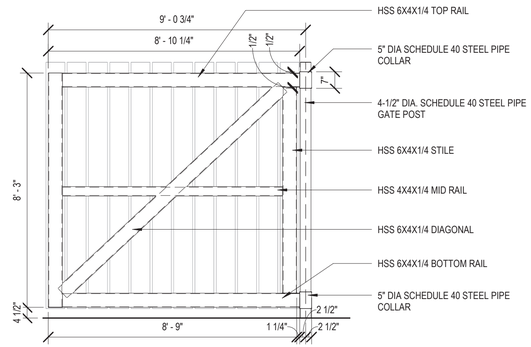
7 ELEVATION - DUMPSTER ENCLOSURE - W
3/16" = 1'-0"



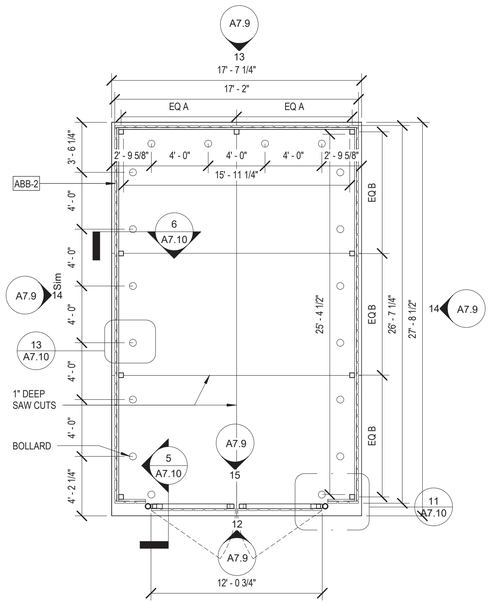
8 ELEVATION - DUMPSTER ENCLOSURE - E
3/16" = 1'-0"



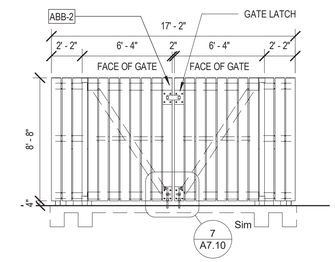
9 ELEVATION - DUMPSTER ENCLOSURE - N
3/16" = 1'-0"



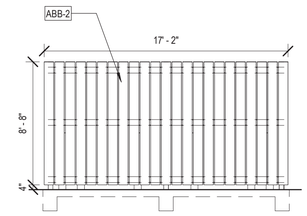
10 ELEVATION DETAIL - DUMPSTER ENCLOSURE GATE FRAMING
3/8" = 1'-0"



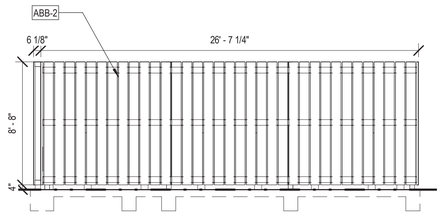
11 ENLARGED PLAN - GENERATOR ENCLOSURE
3/16" = 1'-0"



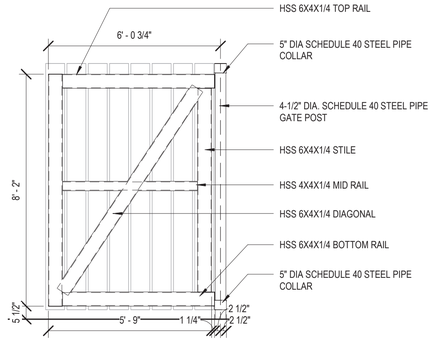
12 ELEVATION - GENERATOR ENCLOSURE - E
3/16" = 1'-0"



13 ELEVATION - GENERATOR ENCLOSURE - W
3/16" = 1'-0"



14 ELEVATION - GENERATOR ENCLOSURE - N, S
3/16" = 1'-0"



15 ELEVATION DETAIL - GENERATOR ENCLOSURE GATE FRAMING
3/8" = 1'-0"

GENERAL NOTES:
1. ALL STEEL FOR TRASH ENCLOSURE TO BE HOT DIPPED GALVANIZED
2. ALL SHOP WELDS TO BE 3/16" FILLET WELDS.
3. ALL FIELD WELDS TO BE 1/4" FILLET WELDS.
4. ALL STEEL TO BE EPOXY PAINTED BLACK.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

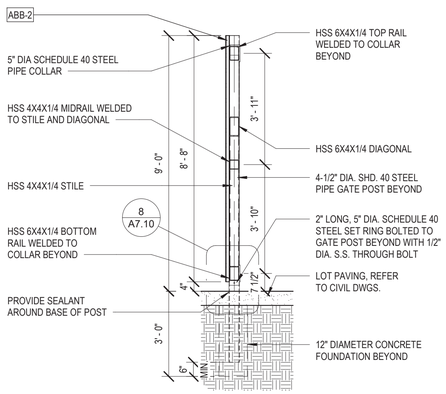
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

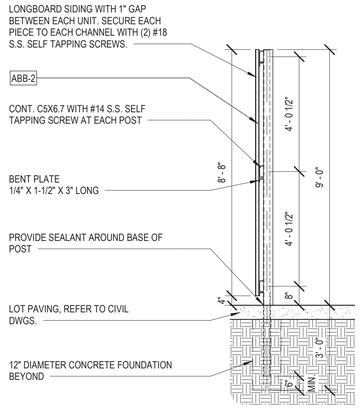
DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

EQUIPMENT ENCLOSURE

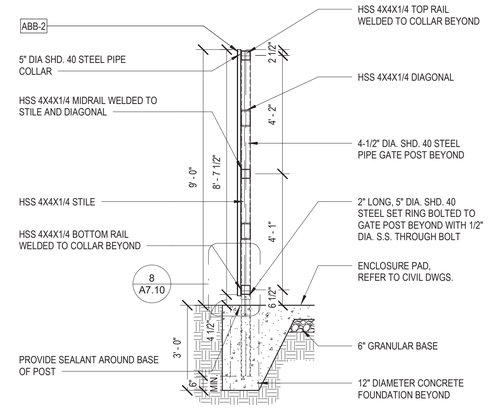
SHEET NO.
A7.9



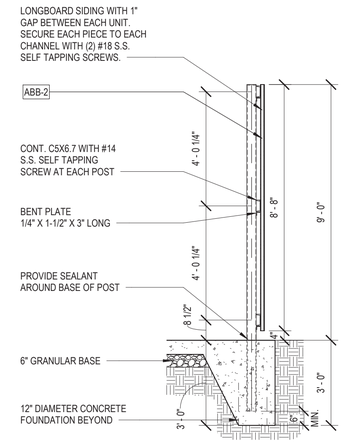
1 SECTION DETAIL - DUMPSTER ENCLOSURE GATE
3/8" = 1'-0"



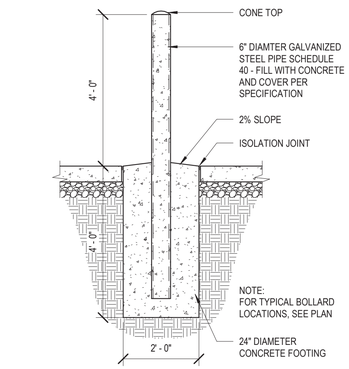
2 SECTION DETAIL - DUMPSTER ENCLOSURE WALL
3/8" = 1'-0"



3 SECTION DETAIL - CONDENSER ENCLOSURE GATE
3/8" = 1'-0"



4 SECTION DETAIL - CONDENSER ENCLOSURE WALL
3/8" = 1'-0"



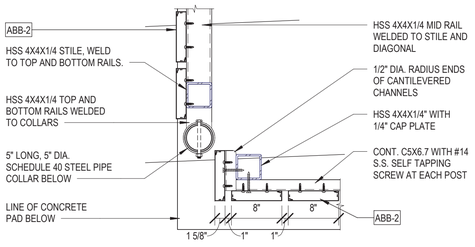
13 TYPICAL BOLLARD DETAIL
1/2" = 1'-0"

5 SECTION DETAIL - GENERATOR ENCLOSURE GATE
3/8" = 1'-0"

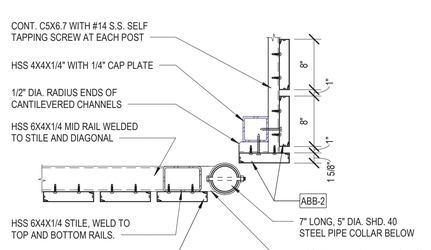
6 SECTION DETAIL - GENERATOR ENCLOSURE WALL
3/8" = 1'-0"

7 CANE BOLT FRONT ELEVATION
1" = 1'-0"

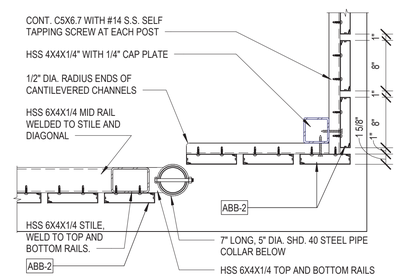
8 CANE BOLT END ELEVATION
1" = 1'-0"



9 ENLARGED PLAN - CONDENSER ENCLOSURE CORNER
1" = 1'-0"



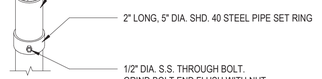
10 ENLARGED PLAN - DUMPSTER ENCLOSURE CORNER
1" = 1'-0"

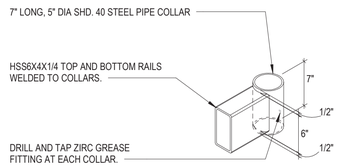


11 ENLARGED PLAN - GENERATOR ENCLOSURE CORNER
1" = 1'-0"

GENERAL NOTES:
1. ALL STEEL FOR TRASH ENCLOSURE TO BE HOT DIPPED GALVANIZED
2. ALL SHOP WELDS TO BE 3/16" FILLET WELDS.
3. ALL FIELD WELDS TO BE 1/4" FILLET WELDS.
4. ALL STEEL TO BE EPOXY PAINTED BLACK.

GATE INSTALLTION SEQUENCE:
1. SET POST PLUMB AND TRUE.
2. DRILL AND BOLT LOWER SET RING.
3. SLIDE LOWER COLLAR OVER POST.
4. SLIDE UPPER RING SET OVER POST.
5. SLIDE UPPER COLLAR OVER POST.
6. REST GATE ON LOWER SET RING, SUPPORT AND BRACE OPPOSITE END OF GATE.
7. DRILL AND BOLT UPPER SET RING.
8. GROUT POST SOLID.
9. REMOVE GATE SUPPORT AND BRACING ONCE GROUT HAS CURED.
10. PAINT ALL METAL PER SPEC. SECTION 09 91 13.
11. GREASE COLLARS.
12. INSTALL LONGBOARD SIDING.





12 HINGE DETAIL
1" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

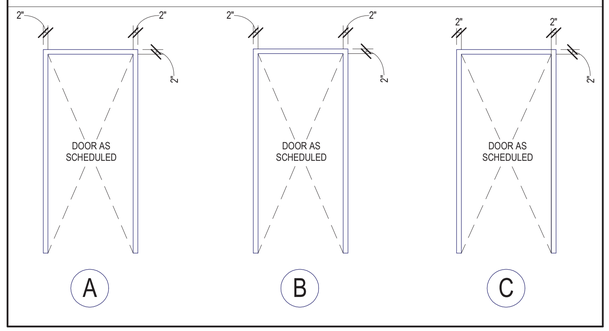
HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

EQUIPMENT ENCLOSURE DETAILS

SHEET NO.
A7.10

FRAME LEGEND



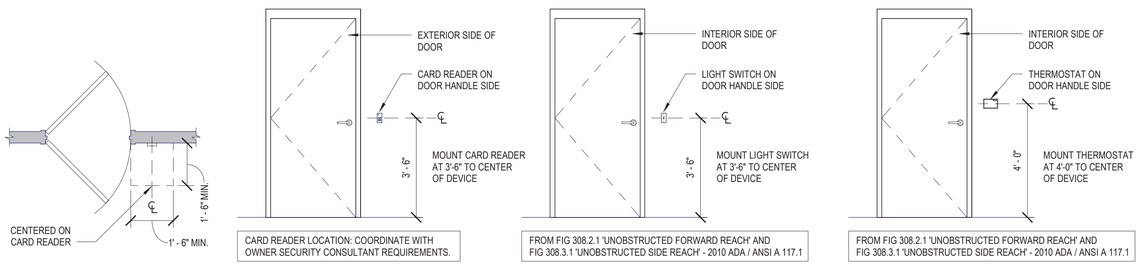
DOOR SCHEDULE

DOOR NO.	ROOM NO.	ROOM NAME	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	DOOR DETAILS TYPE	DOOR DETAILS MATERIAL	DOOR DETAILS FINISH	FRAME DETAILS TYPE	FRAME DETAILS HEAD	FRAME DETAILS JAMB	FRAME DETAILS SILL	FRAME DETAILS MATERIAL	FRAME DETAILS FINISH	HARDWARE	DOOR FIRE RATING	NOTES	THRESHOLD (ADA TYPE)	ACCESS CONTROLS	ADA AUTO-OPERATOR	TACTILE EXIT SIGNAGE	CLOSER	KICKPLATE
LEVEL 0																							
000	000	MECHANICAL	6' - 0"	7' - 0"	0' - 1 3/4"	D	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	01				YES				YES
002	002	ELECTRICAL / DATA	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	02				YES			PUSH	YES
003	003	CURATION STORAGE	4' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	03				YES			PULL	YES
004	004	PUMP ROOM	4' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	04				YES			PULL	YES
005	005	GENERAL STORAGE	6' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	01				YES				YES
ST1A	ST1	SOUTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES
ST2A	ST2	NORTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES
LEVEL 1																							
100	100	STORAGE	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	06				YES			PULL	YES
103A	103	LOBBY	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	5/A8.0	CW-1	PREFIN	07			YES		YES	YES		YES
103B	103	LOBBY	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	5/A8.0	CW-1	PREFIN	08			YES	YES	YES	YES		YES
105	105	MEN'S RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	09							PULL	YES
106	106	WOMEN'S RESTROOM	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	09							PULL	YES
107A	107	VESTIBULE	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	N/A	CW-1	PREFIN	10				YES	YES			YES
107B	107	VESTIBULE	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	N/A	CW-1	PREFIN	11				YES	YES	YES		YES
107C	107	VESTIBULE	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	5/A8.0	CW-1	PREFIN	08			YES	YES	YES	YES		YES
107D	107	VESTIBULE	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	5/A8.0	CW-1	PREFIN	07			YES		YES	YES		YES
108	108	CLOSET	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	12								
111	111	CLOSET	2' - 6"	6' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	12								
ST1B	ST1	SOUTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	B	EDS-1	PREFIN	B	10/A8.0	8/A8.0	5/A8.0	AFS-2	PREFIN	13			YES	YES		YES	PUSH	YES
ST1C	ST1	SOUTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES
ST2B	ST2	NORTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	B	EDS-1	PREFIN	B	10/A8.0	8/A8.0	5/A8.0	AFS-2	PREFIN	13			YES	YES		YES	PUSH	YES
ST2C	ST2	NORTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES
LEVEL 2																							
200	200	STORAGE	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	06				YES			PULL	YES
201A	201	BALCONY	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	4/A8.0	CW-1	PREFIN	07			YES		YES			YES
201B	201	BALCONY	6' - 0"	6' - 10 3/4"	0' - 2 1/4"	C	EDS-1	PREFIN	C	6/A8.0	9/A8.0	4/A8.0	CW-1	PREFIN	14			YES	YES	YES			YES
202	202	CONFERENCE	3' - 0"	7' - 0"	0' - 1 3/4"	E	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	15				YES			PULL	YES
203	203	OFFICE	3' - 0"	7' - 0"	0' - 1 3/4"	E	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	06				YES			PULL	YES
ST1D	ST1	SOUTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	B	EDS-1	PREFIN	B	10/A8.0	8/A8.0	4/A8.0	AFS-2	PREFIN	16			YES				PUSH	YES
ST1E	ST1	SOUTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES
ST2D	ST2	NORTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	B	EDS-1	PREFIN	B	2/A8.0	3/A8.0	1/A8.0	AFS-2	PREFIN	16			YES				PUSH	YES
ST2E	ST2	NORTH STAIR	3' - 0"	7' - 0"	0' - 1 3/4"	A	FWD-1	PREFIN	A	2/A8.0	3/A8.0	1/A8.0	HMF-1	HPNT-1	05	45 MIN			YES		YES	PULL	YES

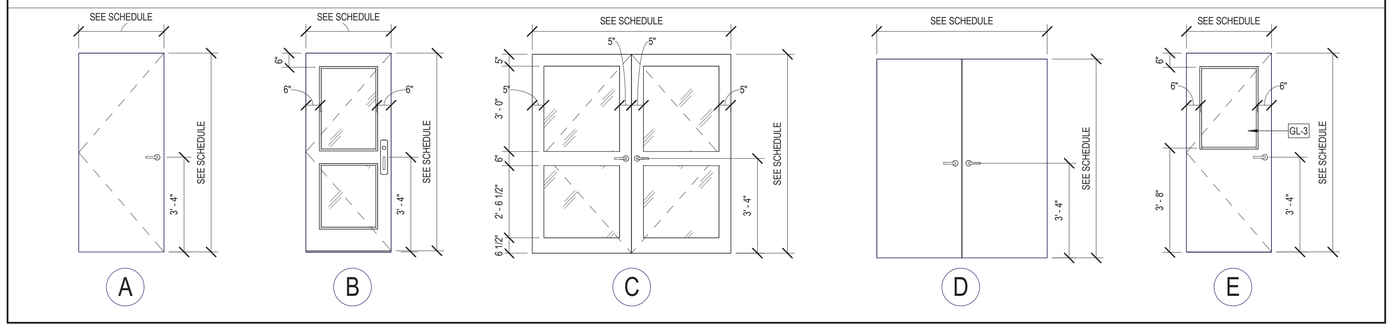
DOOR SCHEDULE GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER TO SPECIFICATION SECTION 08 11 13 "HOLLOW METAL DOORS AND FRAMES" FOR ADDITIONAL INFORMATION FOR HOLLOW METAL DOORS AND FRAME TYPES.
4. REFER TO SPECIFICATION SECTION 08 22 20 "FIBERGLASS REINFORCED PLASTIC (FRP) DOORS AND FRAMES" FOR ADDITIONAL INFORMATION ON FRP DOORS AND FRAMES.
5. REFER TO SPECIFICATION SECTION 08 36 13 "SECTIONAL DOORS" FOR ADDITIONAL INFORMATION ON OVERHEAD SECTIONAL DOORS.
6. REFER TO SPECIFICATION SECTION 08 41 13 "ALUMINUM-FRAMED ENTRANCES AND STOREFRONTS" FOR ADDITIONAL INFORMATION ON STOREFRONT ENTRANCES.
7. REFER TO SPECIFICATION SECTION 08 71 00 "DOOR HARDWARE" FOR DOOR HARDWARE SETS AND ADDITIONAL INFORMATION.
8. ALL EXTERIOR DOORS SHALL HAVE A DRIP CAP.
9. REFER TO DOOR / FRAME TYPE SCHEDULES FOR ADDITIONAL INFORMATION.
10. REFER TO DEVICE MOUNTING DETAILS FOR ADDITIONAL INFORMATION.
11. ALL THRESHOLDS SHALL BE ADA-COMPLIANT; SET THRESHOLDS IN CONTINUOUS BEAD OF BUTYL SEALANT AS RECOMMENDED BY MANUFACTURER; REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
12. 12. ALL DOORS INDICATED TO RECEIVE ACCESS CONTROLS SHALL BE PROVIDED WITH CARD READER NEXT TO DOOR, ELECTRIC STRIKE AS INDICATED IN DOOR HARDWARE, AND REQUEST-TO-EXIT MOTION SENSOR; ACCESS CONTROL EQUIPMENT SHALL BE PROVIDED BY THE SECURITY CONSULTANT UNDER THE CONTRACTOR'S CONTRACT; REFER TO DOOR DEVICE MOUNTING DETAILS FOR ADDITIONAL INFORMATION ON CARD READER LOCATION; PROVIDE POWER AND DATA AS REQUIRED TO CARD READER, ELECTRIC STRIKES, AND REQUEST-TO-EXIT MOTION SENSORS; PROVIDE DOOR CONTACTS AT ALL OVERHEAD SECTIONAL DOORS REGARDLESS OF WHETHER OR NOT THE DOOR IS TO RECEIVE ACCESS CONTROLS; REFER TO SECURITY AND ELECTRICAL DRAWINGS FOR ADDITIONAL INFORMATION.
13. ALL DOORS INDICATED TO RECEIVE ADA AUTO-OPERATOR SHALL BE PROVIDED WITH AN ADA-COMPLIANT AUTOMATIC OPERATOR AND ADA-COMPLIANT PUSH PLATE; PUSH PLATES TO BE PROVIDED AT LOCATIONS INDICATED IN INTERIOR ELEVATIONS.
14. ALL DOORS INDICATED TO RECEIVE TACTICLE (BRAILLE) EXIT SIGNAGE SHALL BE PROVIDED WITH TACTILE BRAILLE EXIT SIGNAGE; REFER TO ROOM SIGNAGE DETAILS FOR ADDITIONAL INFORMATION.
15. SPEC. DESIGNATION INDICATES THE TYPE OF DOOR TO BE PROVIDED AS INDICATED WITHIN THE SPECIFICATIONS.
16. DOORS INDICATED TO RECEIVE KICK-PLATE SHALL HAVE A KICK-PLATE INSTALLED ON THE PUSH SIDE OF THE DOOR.
17. DOORS INDICATED WITH A "PUSH" OR "PULL" UNDER "CLOSER" COLUMN SHALL RECEIVE A DOOR CLOSER AS SPECIFIED; DOOR CLOSER SHALL BE INSTALLED ON EITHER THE PUSH OR PULL SIDE OF THE DOOR AS INDICATED IN THE DOOR HARDWARE SCHEDULE.

DEVICE MOUNTING AT DOOR



DOOR LEGEND



REVISIONS

06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

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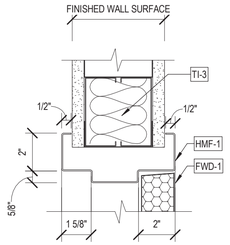
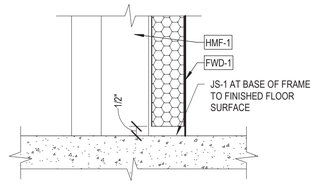
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

DOOR SCHEDULE AND TYPES

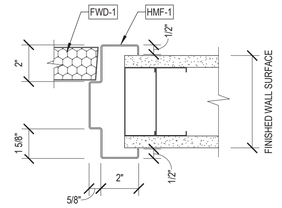
SHEET NO. **A8.0**



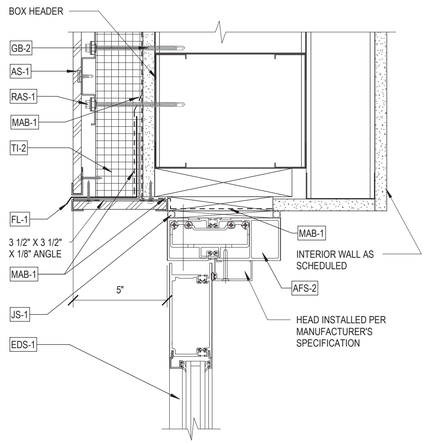
1 DETAIL - HEAD - INTERIOR
3" = 1'-0"



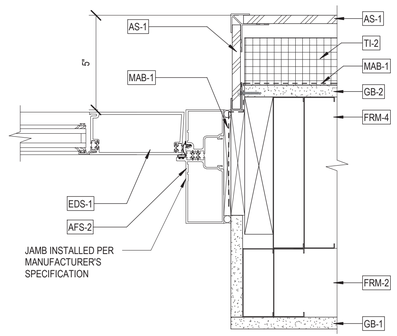
2 DETAIL - SILL - INTERIOR
3" = 1'-0"



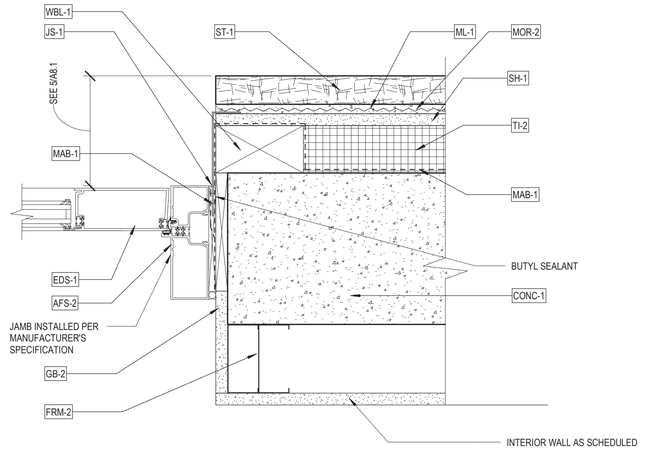
3 DETAIL - JAMB - INTERIOR
3" = 1'-0"



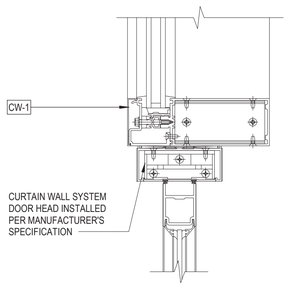
4 SECTION DETAIL - HEAD - EXT.
3" = 1'-0"



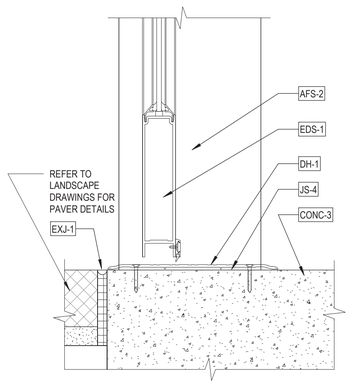
5 SECTION DETAIL - JAMB - EXT - ALUMINUM SIDING
3" = 1'-0"



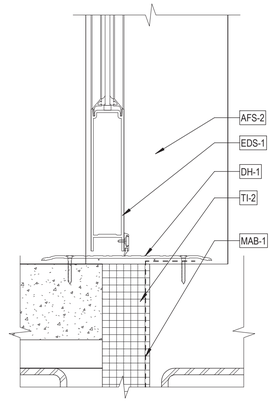
11 SECTION DETAIL - JAMB - EXT - STONE VENEER
3" = 1'-0"



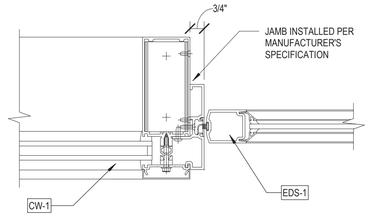
6 SECTION DETAIL - GLAZ DOOR HEAD
3" = 1'-0"



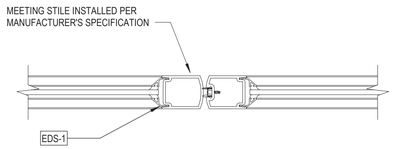
7 SECTION DETAIL - GLAZ DOOR THRESHOLD VEST EXT.
3" = 1'-0"



8 SECTION DETAIL - GLAZ DOOR THRESHOLD BALCONY
3" = 1'-0"



9 SECTION DETAIL - GLAZ DOOR JAMB
3" = 1'-0"



10 SECTION DETAIL - GLAZ DOOR MEETING STILE
3" = 1'-0"

REVISIONS
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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
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1575 US-68, XENIA, OHIO 45385

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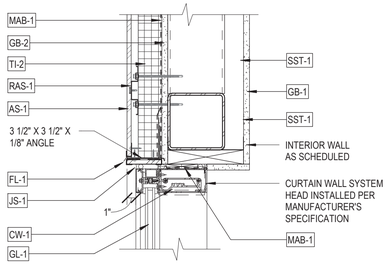
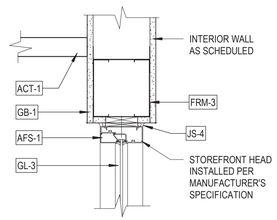
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

DOOR DETAILS

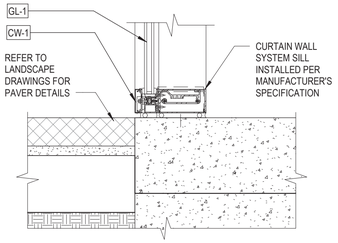
SHEET NO.
A8.1



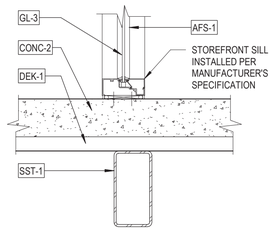
1 SECTION DETAIL - CURTAIN WALL HEAD
1 1/2" = 1'-0"



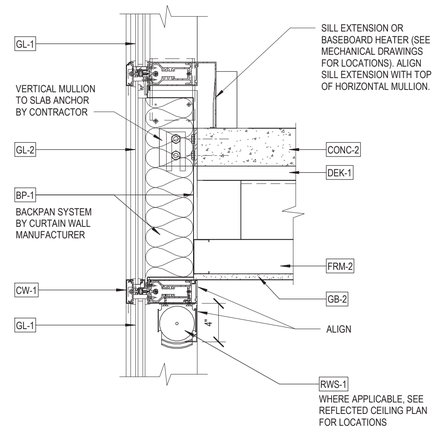
2 DETAIL SECTION - OFFICE WINDOW HEAD
1 1/2" = 1'-0"



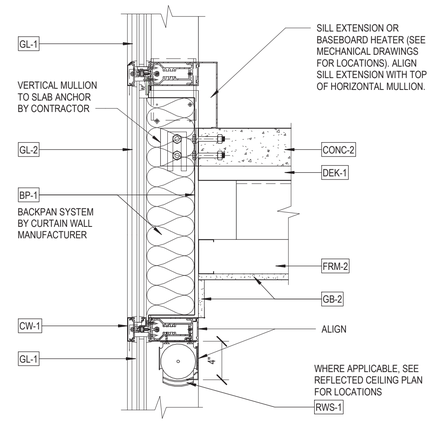
3 SECTION DETAIL - CURTAIN WALL SIL
1 1/2" = 1'-0"



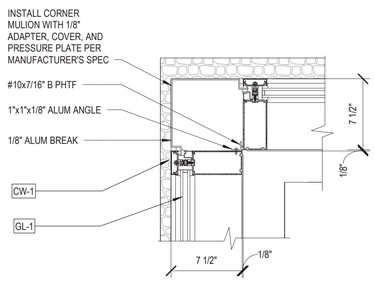
4 DETAIL SECTION - OFFICE WINDOW SILL
1 1/2" = 1'-0"



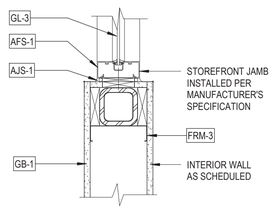
5 SECTION DETAIL - CURTAIN WALL AT SECOND FLOOR
1 1/2" = 1'-0"



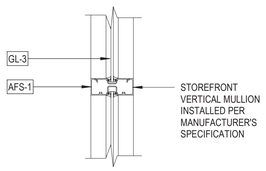
9 SECTION DETAIL - CURTAIN WALL AT ENTRANCE
1 1/2" = 1'-0"



6 PLAN DETAIL - CURTAIN WALL VERTICAL MULION CORNER
1 1/2" = 1'-0"



7 PLAN DETAIL - OFFICE WINDOW JAMB
1 1/2" = 1'-0"



8 PLAN DETAIL - OFFICE WINDOW VERTICAL MULLION
1 1/2" = 1'-0"

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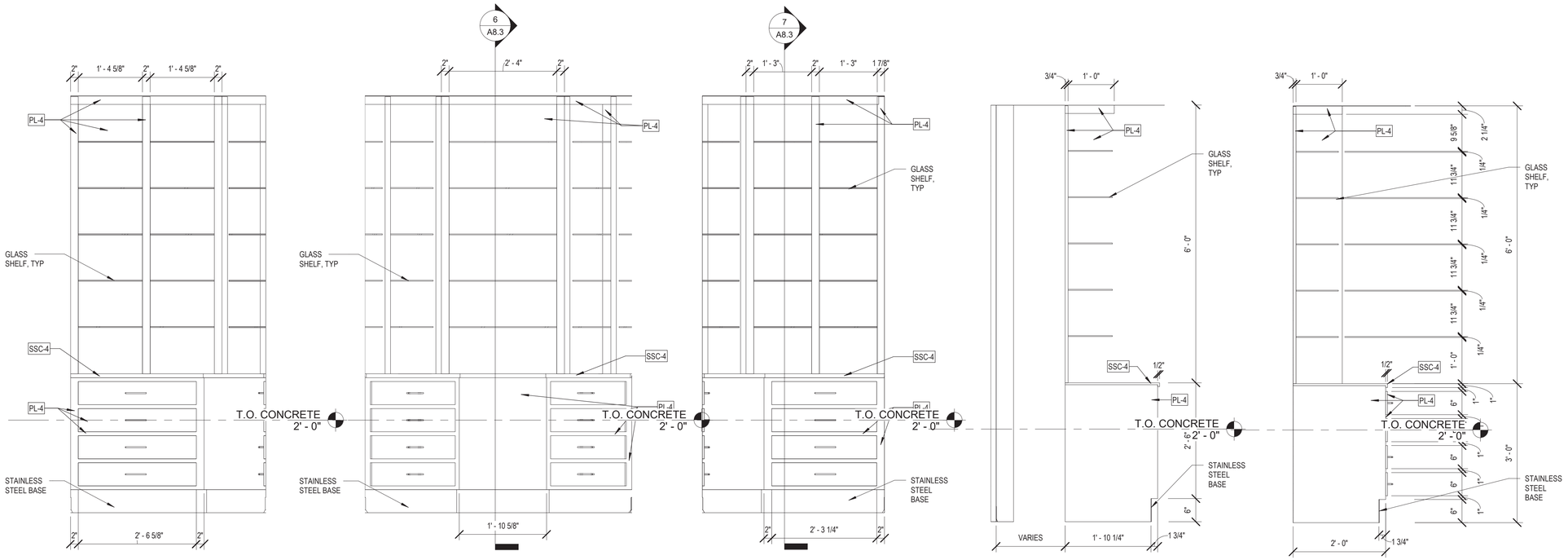
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

CURTAIN WALL AND STOREFRONT DETAILS

SHEET NO.
A8.2



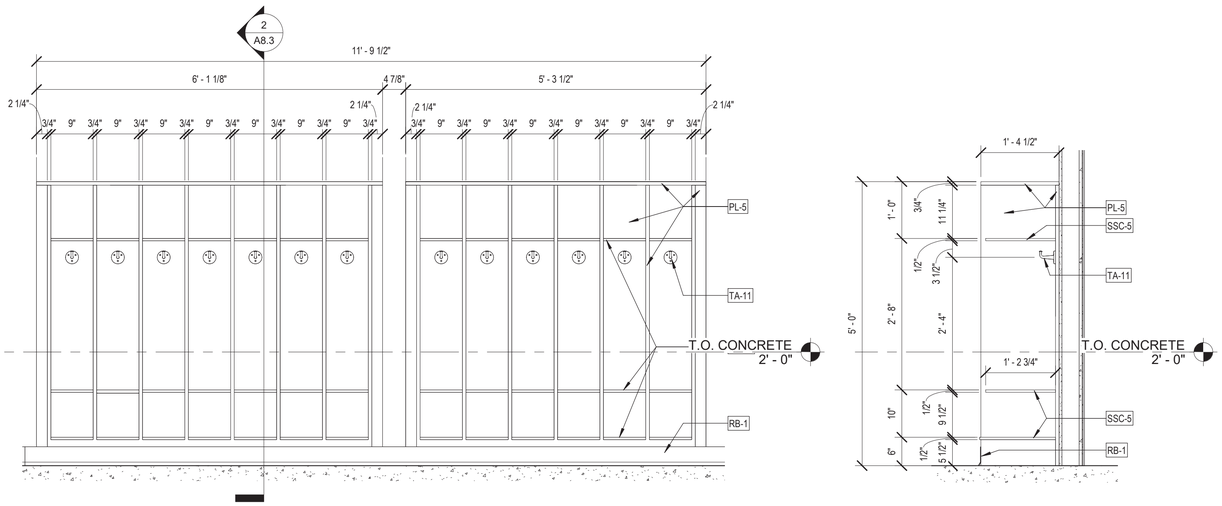
3 INT. ELEVATION - ATRIUM W - GIFT SHOP
3/4" = 1'-0"

4 INT. ELEVATION - ATRIUM - GIFT SHOP
3/4" = 1'-0"

5 INT. ELEVATION - ATRIUM- N - GIFT SHOP
3/4" = 1'-0"

6 SECTION DETAIL - GIFT SHOP DISPLAY
3/4" = 1'-0"

7 SECTION DETAIL - GIFT SHOP
3/4" = 1'-0"



1 INT. ELEVATION - STORAGE CUBBY
3/4" = 1'-0"

2 SECTION DETAIL - STORAGE CUBBY
3/4" = 1'-0"

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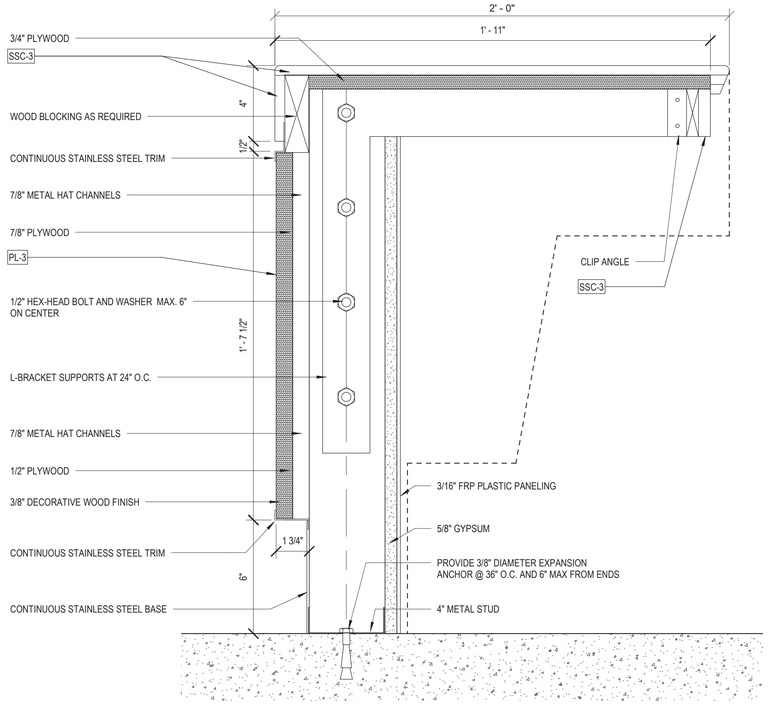
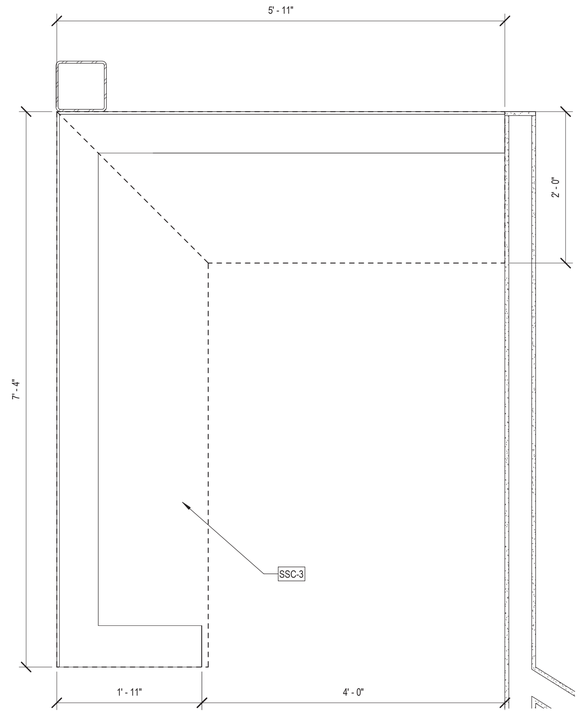
MILLWORK DETAILS

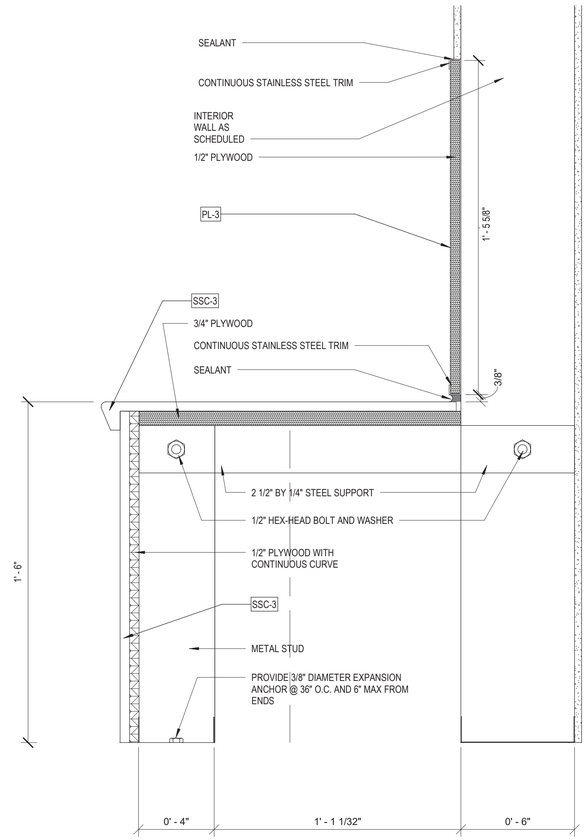
SHEET NO.
A8.3



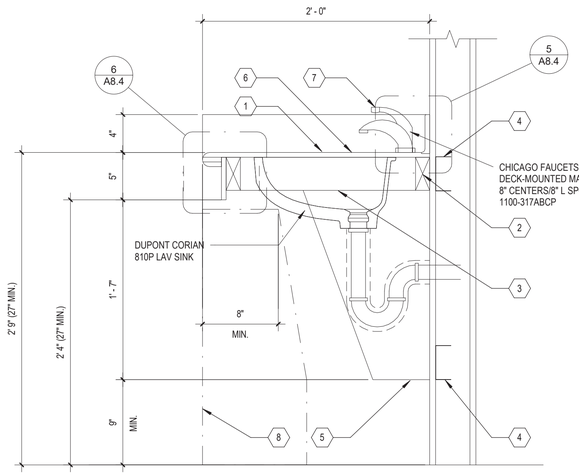
1 SECTION DETAIL - RECEPTION DESK
3" = 1'-0"



2 ENLARGED PLAN - RECEPTION DESK
1" = 1'-0"



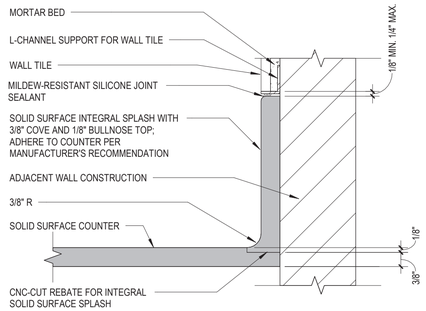
3 SECTION DETAIL - THEATER BENCH
3" = 1'-0"



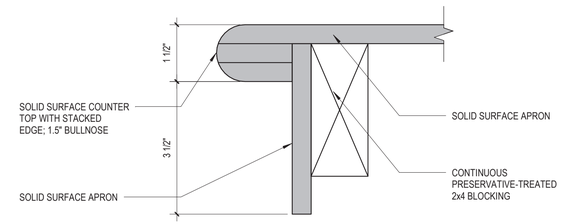
4 DETAIL - LAVATORY COUNTER
1 1/2" = 1'-0"

CODED NOTES

1. SOLID SURFACE COUNTERTOP; ATTACH TO FRAMING PER MANUFACTURER'S WRITTEN INSTRUCTIONS.
2. PRESERVATIVE-TREATED 2x4 (NOMINAL) WOOD FRAMING; FASTEN TO IN-WALL BLOCKING WITH COMPATIBLE FASTENERS.
3. PRESERVATIVE-TREATED 2x4 (NOMINAL) WOOD FRAMING AT 16" ON CENTER.
4. IN-WALL BLOCKING; REFER TO IN-WALL BLOCKING DETAILS FOR ADDITIONAL INFORMATION.
5. 1 1/2" THICK PRESERVATIVE-TREATED WOOD KNEE BRACE; TO LAND ON CENTER OF COUNTER AND CENTER 2x4 WOOD FRAMING; FASTEN TO 2x4 UNDER-COUNTER WOOD FRAMING AND IN-WALL BLOCKING WITH COMPATIBLE FASTENERS.
6. ADA-COMPLIANT INTEGRAL SOLID SURFACE SINK BY SOLID SURFACE COUNTERTOP MANUFACTURER; REFER TO M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION; GENERAL CONTRACTOR TO COORDINATE; ALL EXPOSED PIPING TO RECEIVE UNDER-LAVATORY GUARDS.
7. MANUALLY-OPERATED SINK FIXTURES; REFER TO M.E.P. DRAWINGS FOR ADDITIONAL INFORMATION; GENERAL CONTRACTOR TO COORDINATE.
8. DASHED LINE INDICATES ADA BARRIER-FREE ZONE; NO FIXTURES, CASEWORK, OR PLUMBING IS TO EXTEND INTO THIS AREA.



5 DETAIL - INTEGRAL SPLASH
6" = 1'-0"



6 DETAIL - COUNTER EDGE
6" = 1'-0"

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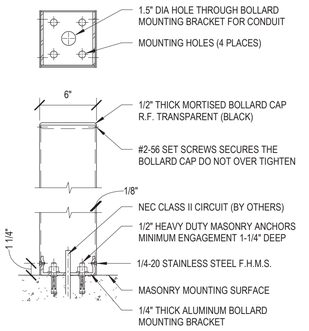
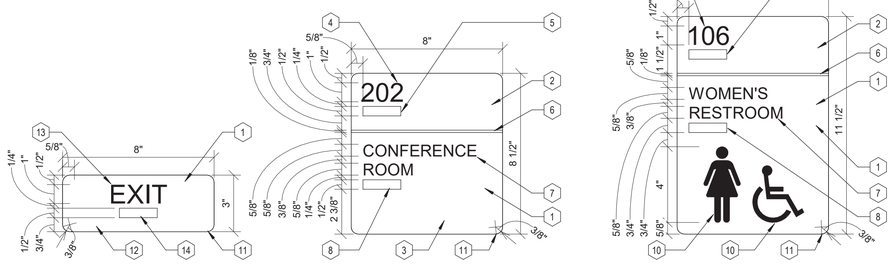
MILLWORK DETAILS

SHEET NO.
A8.4



1 SURFACE MOUNT PUSH PLATE
1 1/2" = 1'-0"



2 ROOM SIGNAGE
3" = 1'-0"

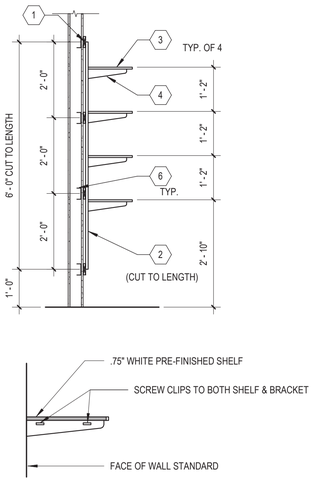
CODE NOTES

1. 1/4" THICK LAMINATED-SHEET SIGN; 1/8" THICK PHOTOPOLYMER FACE SHEET WITH RAISED CHARACTERS AND SUBSURFACE GRAPHICS / COLORS, LAMINATED TO 1/8" THICK ACRYLIC BACKING SHEET; COLORS AS INDICATED ON DRAWINGS AND SPECIFICATIONS.
2. SUBSURFACE COLOR TO BE ODOT GREEN.
3. SUBSURFACE COLOR TO BE BLACK.
4. 1/4" THICK, RAISED LETTERING, ROOM NUMBER, PHOTOGRAPHICALLY ETCHED
5. PHOTOPOLYMER ALLOWING COPY TO BE RAISED 1/32"; TEXT CHARACTERS TO BE 1" TALL; COLOR TO BE WHITE.
6. 1/8" WIDE STRIPE; SUBSURFACE COLOR TO BE WHITE.
7. 1/32" THICK, RAISED LETTERING, ROOM NAME; PHOTOGRAPHICALLY ETCHED PHOTOPOLYMER ALLOWING COPY TO BE RAISED 1/32"; TEXT CHARACTERS TO BE 5/8" TALL; COLOR TO BE WHITE
8. LOCATION OF CORRESPONDING GRADE II BRAILLE FOR ROOM NAME; COLOR TO MATCH PHOTOPOLYMER FACE SHEET; TOP OF BRAILLE TO START AT 1/4" BELOW BOTTOM OF ROOM NAME TEXT.
9. 1" HIGH SLOTTED, SLIDE-IN, CHANGEABLE INSERT; SLIDE-IN CHANGEABLE INSERT TO BE LOCATED BETWEEN PHOTOPOLYMER FACE SHEET AND ACRYLIC BACKING SHEET; PROVIDE SLIDE-IN CHANGEABLE INSERT FOR 1/16" INSERT.
10. 1/32" THICK RAISED CHARACTER SYMBOLS; COLOR TO BE WHITE; COORDINATE SYMBOLS WITH RESTROOMS.
11. 3/8" RADIUS BULLNOSE CORNERS.
12. SUBSURFACE COLOR TO BE RED.
13. 1/32" THICK, RAISED LETTERING, "EXIT"; PHOTOGRAPHICALLY ETCHED PHOTOPOLYMER ALLOWING COPY TO BE RAISED 1/32"; TEXT CHARACTERS TO BE 1" TALL; COLOR TO BE WHITE.
14. LOCATION OF CORRESPONDING GRADE II BRAILLE FOR ROOM NUMBER; COLOR TO MATCH PHOTOPOLYMER FACE SHEET.

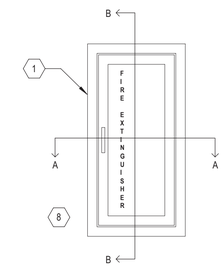
CODE NOTES

1. WALL FURRING; 1x4 GRADE "A" WOOD FURRING INSTALLED CONTINUOUSLY BEHIND ALL WALL STANDARDS; REFER TO SHELVING SECTION DETAILS.
2. STANDARD; 6'-0" LONG HEAVY-DUTY WALL STANDARD WITH 1" SLOTS, 2" ON CENTER, CUT TO LENGTH AS NOTED; STANDARDS TO BE MOUNTED AT 16" ON CENTER.
3. WALL SHELF; 12" OR 14" DEEP x 96" LONG SECTIONS, PRE-FINISHED; PROVIDE MELAMINE OR STAINLESS STEEL SHELVES AS SCHEDULED.
4. SHELF BRACKET; 12" OR 14" HEAVY-DUTY SHELF BRACKET WITH TWO (2) SHELF CLIPS AND TWO (2) SHELF CLIP SCREWS PER CLIP.
5. NOT USED.
6. PROVIDE METAL IN-WALL BLOCKING PER IN-WALL BLOCKING DETAILS.

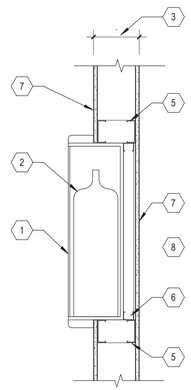
NOTE: SHELVES TO RUN CONTINUOUS ALONG WALLS AND AT CORNERS (REFER TO FLOOR PLANS). JOIN STRAIGHT RUN SHELF SEAMS AT BRACKETS. INSTALL WOOD SCAB, SCREWED TO UNDERSIDE OF SHELVES AT ALL CORNER JOINTS AND UNSUPPORTED SEAMS USING 1 1/4" #8 COUNTERSUNK WOOD SCREWS.



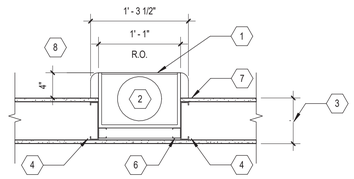
4 DETAIL - UTILITY SHELVING
1/2" = 1'-0"



C ELEVATION - FIRE PROTECTION CABINET



B SECTION - FIRE PROTECTION CABINET



A PLAN SECTION - FIRE PROTECTION CABINET

CODED NOTES

1. SEMI-RECESSED FIRE PROTECTION CABINET WITH FIRE EXTINGUISHER; ATTACH TO METAL STUD FRAMING AT BACK AND ALL SIDES WITH METAL SCREWS PER MANUFACTURER'S RECOMMENDATIONS.
2. FIRE EXTINGUISHER.
3. WALL AS SCHEDULED.
4. METAL STUD FRAMING; METAL STUDS TO BE AT A MINIMUM THE SAME SIZE AND GAUGE AS THE ADJACENT METAL STUD WALL.
5. 3 5/8" METAL STUD FRAMING; METAL STUDS TO BE AT A MINIMUM THE SAME GAUGE AS THE ADJACENT METAL STUD WALL.
6. 1 5/8" METAL STUD FRAMING; METAL STUDS TO BE AT A MINIMUM THE SAME GAUGE AS THE ADJACENT METAL STUD WALL.
7. GYPSUM WALL BOARD AS SCHEDULED.
8. CONTRACTOR SHALL VERIFY ROUGH OPENING REQUIREMENTS AND MOUNTING REQUIREMENTS FOR ALL FIRE PROTECTION CABINETS.

5 DETAIL - FIRE PROTECTION CABINET
1" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
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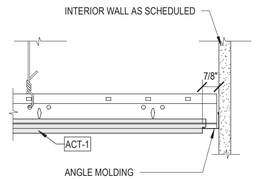
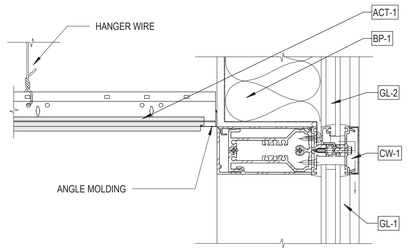
DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

MISCELLANEOUS DETAILS

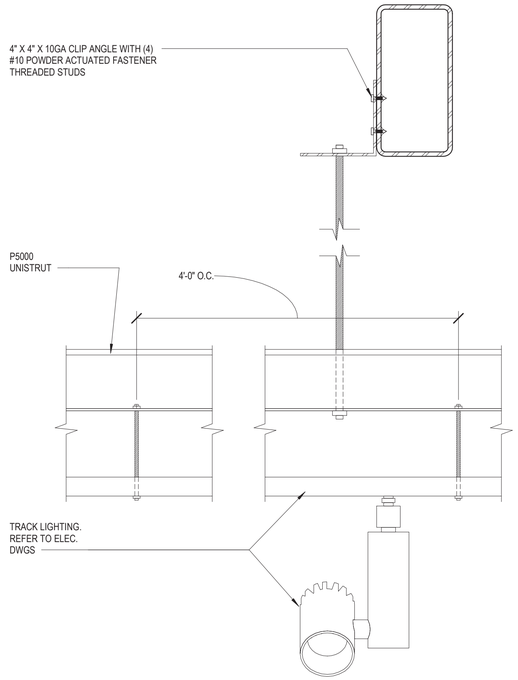
SHEET NO.
A8.5



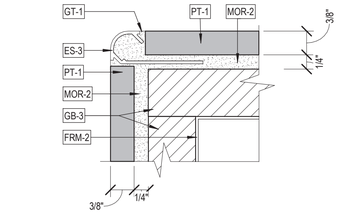
1 SECTION DETAIL - ACT CEILING AT VERTICAL WALL
3" = 1'-0"



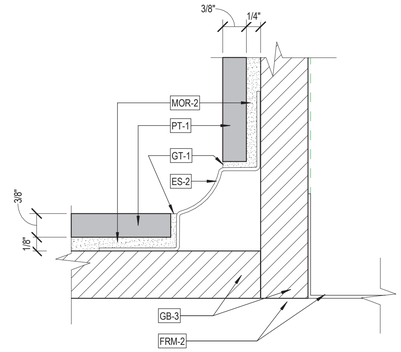
2 SECTION DETAIL - ACT CEILING AT MULLION
3" = 1'-0"



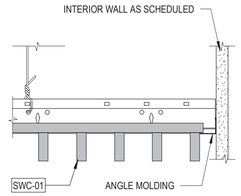
6 TRACK LIGHTING ATTACHMENT
3" = 1'-0"



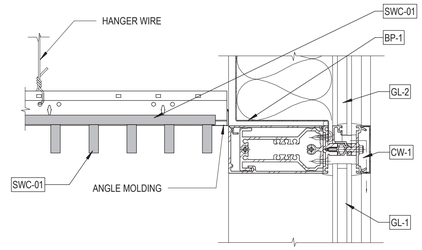
3 PLAN DETAIL - OUTSIDE TILE CORNER
12" = 1'-0"



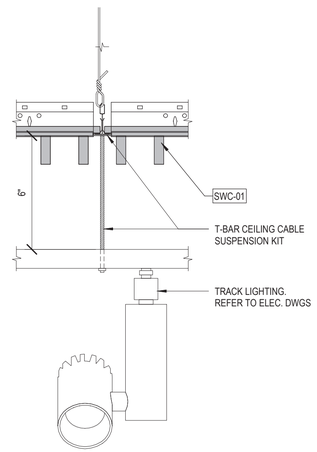
7 PLAN DETAIL - INSIDE TILE CORNER
12" = 1'-0"



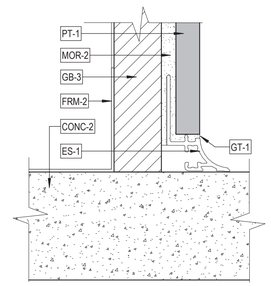
4 SECTION DETAIL - WOOD CEILING AT VERTICAL WALL
3" = 1'-0"



5 SECTION DETAIL - WOOD CEILING AT MULLION
3" = 1'-0"



8 SECTION DETAIL - TRACK LIGHTING AT WOOD CEILING
3" = 1'-0"



9 SECTION DEAIL - WALL TO FLOOR TILE
12" = 1'-0"

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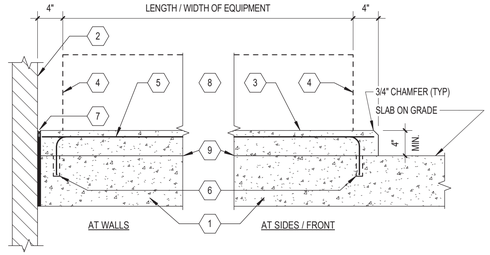
CHECKED BY:	Checker	PERMIT DATE:	02.25.2022
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

MISCELLANEOUS DETAILS

SHEET NO.
A8.6

NOTES:

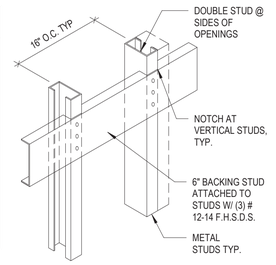
1. CONCRETE FLOOR SLAB AS SCHEDULED; REFER TO PLANS, FINISH SCHEDULE, AND STRUCTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
2. WALL AS SCHEDULED; REFER TO PLANS FOR ADDITIONAL INFORMATION.
3. CONCRETE HOUSEKEEPING PAD (4" THICK MINIMUM); CONCRETE TYPE, ADMIXTURES, AND REINFORCING SHALL MATCH REQUIREMENTS OF ADJACENT CONCRETE FLOOR SLAB; CHAMFER ALL CORNERS AT EDGES 3/4", TYPICAL; EXTEND HOUSEKEEPING PAD A MINIMUM OF 4" BEYOND FACE OF EQUIPMENT IN ALL DIRECTIONS UNLESS NOTED OTHERWISE; COORDINATE CLEARANCE REQUIREMENTS WITH EQUIPMENT MANUFACTURER'S WRITTEN INSTRUCTIONS.
4. DASHED LINE INDICATES OUTLET OF EQUIPMENT; MAINTAIN 4" MINIMUM CLEARANCE TO ANY ADJACENT WALLS, OTHER COMPONENTS OF CONSTRUCTION, OR OTHER EQUIPMENT UNLESS NOTED OTHERWISE; COORDINATE CLEARANCE REQUIREMENTS WITH CODE REQUIREMENTS, ALL AUTHORITIES HAVING JURISDICTION, AND EQUIPMENT MANUFACTURER'S WRITTEN REQUIREMENTS.
5. WWF 6x6 W2.1 x W2.1; INSTALL 1" BELOW TOP OF CONCRETE HOUSEKEEPING PAD.
6. 1/2" DIAMETER THREADED ROD DRILLED AND EPOXY-GROUTED TO FLOOR SLAB AT 24" ON CENTER AT ENTIRE PERIMETER OF HOUSEKEEPING PAD; EMBED 3" MINIMUM.
7. ISOLATION JOINT, BACKER ROD, AND SEALANT AS SCHEDULED; PROVIDE CONTINUOUS ISOLATION JOINT FOR FLOOR SLAB AND HOUSEKEEPING PAD.
8. COMPLY WITH REQUIREMENTS OF ACI STANDARDS.
9. APPLY BONDING AGENT TO CONTACT SURFACE.



1 DETAIL - HOUSEKEEPING PAD
1" = 1'-0"

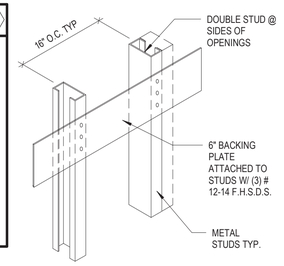
NOTES:

1. BLOCKING FOR UPPER WALL HUNG CABINETS (UP TO 2 SHELVES) BASE CABINETS, FULL HEIGHT CABINETS, HANDRAILS, GUARDRAILS, GRAB BARS, WALL HUNG EQUIP., FIRE EXTINGUISHERS, ETC. MAX. WEIGHT 250 LBS./FT.
2. SEE TYPICAL WALL FRAMING FOR GAUGE OF STUDS, VERIFY LENGTH, HEIGHT, LOCATION OF BLOCKING PLATE AND NUMBER.
3. USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BLOCKING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS AT BACKING STUD OR PLATE.

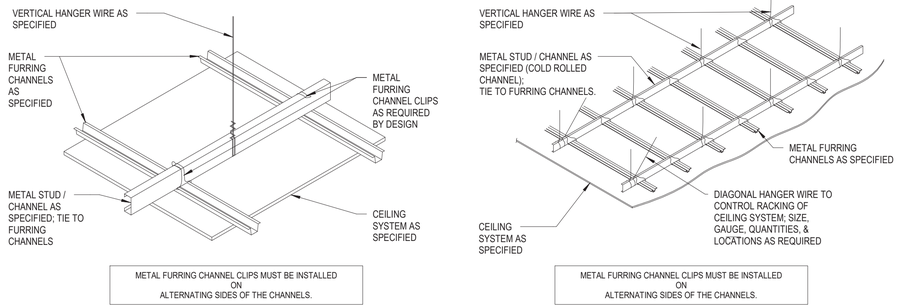


NOTES:

1. BLOCKING FOR MISC. ITEMS, IE. SURFACE MTD. MIRRORS, TOWEL DISPENSERS, ETC. MAXIMUM WEIGHT 60 LBS.
2. SEE TYPICAL WALL FRAMING FOR GAUGE OF STUDS, VERIFY LENGTH, HEIGHT, LOCATION OF BLOCKING PLATE AND NUMBER.
3. USE #12 SELF TAPPING SHEET METAL SCREWS WHEN ATTACHING ITEMS TO BLOCKING PLATE.
4. WALL STUD FLANGES ARE CONTINUOUS AT BACKING STUD OR PLATE.



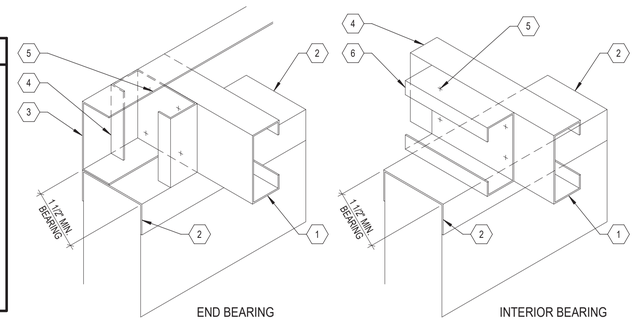
2 DETAIL - METAL STUD WALL
1" = 1'-0"



3 DETAIL - SUSPENDED CEILING SYSTEM
1/2" = 1'-0"

CODED NOTES

1. METAL STUD JOIST FRAMING ACROSS STUD WALLS ABOVE CEILING; METAL STUD JOIST FRAMING TO MATCH METAL STUD WALL FRAMING (35/8" MIN.); METAL STUD JOISTS TO HAVE WEB ATTACHED TOP AND BOTTOM; METAL STUD JOISTS TO BE AT A MINIMUM THE SAME GAUGE AS THE ADJACENT METAL STUD WALL; METAL STUD JOIST FRAMING TO BE AT 24" ON CENTER MAXIMUM.
2. METAL STUD FRAMING TOP TRACK; TO PROVIDE MINIMUM 11/2" BEARING.
3. METAL STUD RUNNER TO RECEIVE METAL STUD JOIST FRAMING; METAL STUD RUNNER TO MATCH METAL STUD WALL FRAMING (35/8" MIN.); METAL STUD RUNNER TO BE AT A MINIMUM THE SAME GAUGE AS THE METAL STUD JOIST FRAMING.
4. METAL STUD PIECE; TO MATCH SAME SIZE AS METAL STUD JOIST FRAMING; TO MATCH SAME GAUGE AS METAL STUD JOIST FRAMING (MINIMUM); FASTEN TO TRACK AND JOIST FRAMING.
5. TWO (2) # 12 x 3/4" LONG SELF TAPPING SHEET METAL SCREWS AT TOP AND BOTTOM OF JOIST.
6. METAL STUD PIECE MATCHING METAL STUD JOIST FRAMING; 8" LONG (MINIMUM); FASTEN TO TRACK AND JOIST FRAMING.



4 DETAIL - METAL STUD JOIST FRAMING
1" = 1'-0"

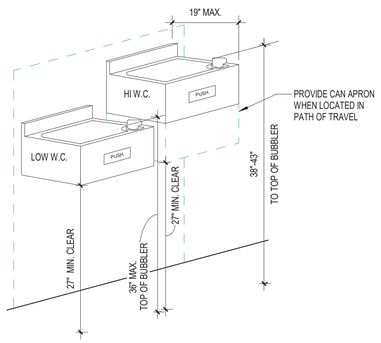
CODE NOTES

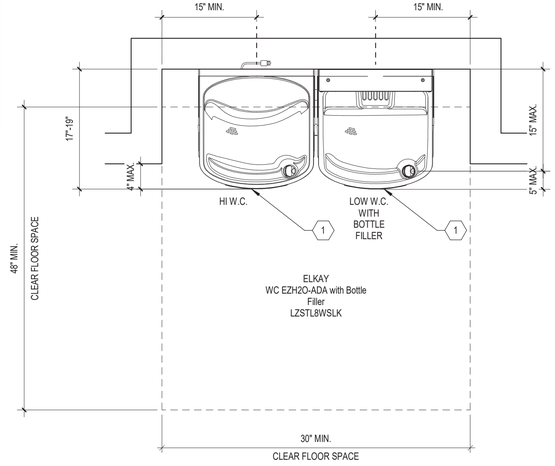
1. ADA-COMPLIANT WATER COOLER(S); WATER COOLER SHALL CONFORM TO THE REQUIREMENTS OF 2010 ADA STANDARDS AND ALL OTHER APPLICABLE CODES.

WATER COOLER NOTES:
IF THE WATER COOLER IS LOCATED IN THE PATH OF TRAVEL, A TEXTURED AREA 1'-0" AROUND THE FOUNTAIN CLEARLY IDENTIFIABLE BY THE BLIND OR CANE APRON IS REQUIRED. BUBBLER IS TO BE ACTIVATED BY A HANDICAP PUSH BAR ON FRONT FACE OF UNIT. WATER COOLERS ARE TO BE LOCATED WITHIN ALCOVES (WHERE INDICATED) SO AS NOT TO BE IN THE CORRIDOR WALK. WATER COOLERS MUST BE APPROACHED FROM THE FRONT. WATER COOLERS SHALL CONFORM TO THE REQUIREMENTS OF THE 2010 ADA STANDARDS AND ALL OTHER APPLICABLE CODES.

WHERE ONLY ONE WATER COOLER IS REQUIRED, MOUNT PER THE "HI" WATER COOLER DIMENSIONS.

WHERE COMBINATION HI/LOW WATER COOLER IS REQUIRED, MOUNT AS INDICATED.





DETAIL - WATER COOLER
(COMBINATION HI/LOW)

5 DETAIL - WATER COOLER
1" = 1'-0"

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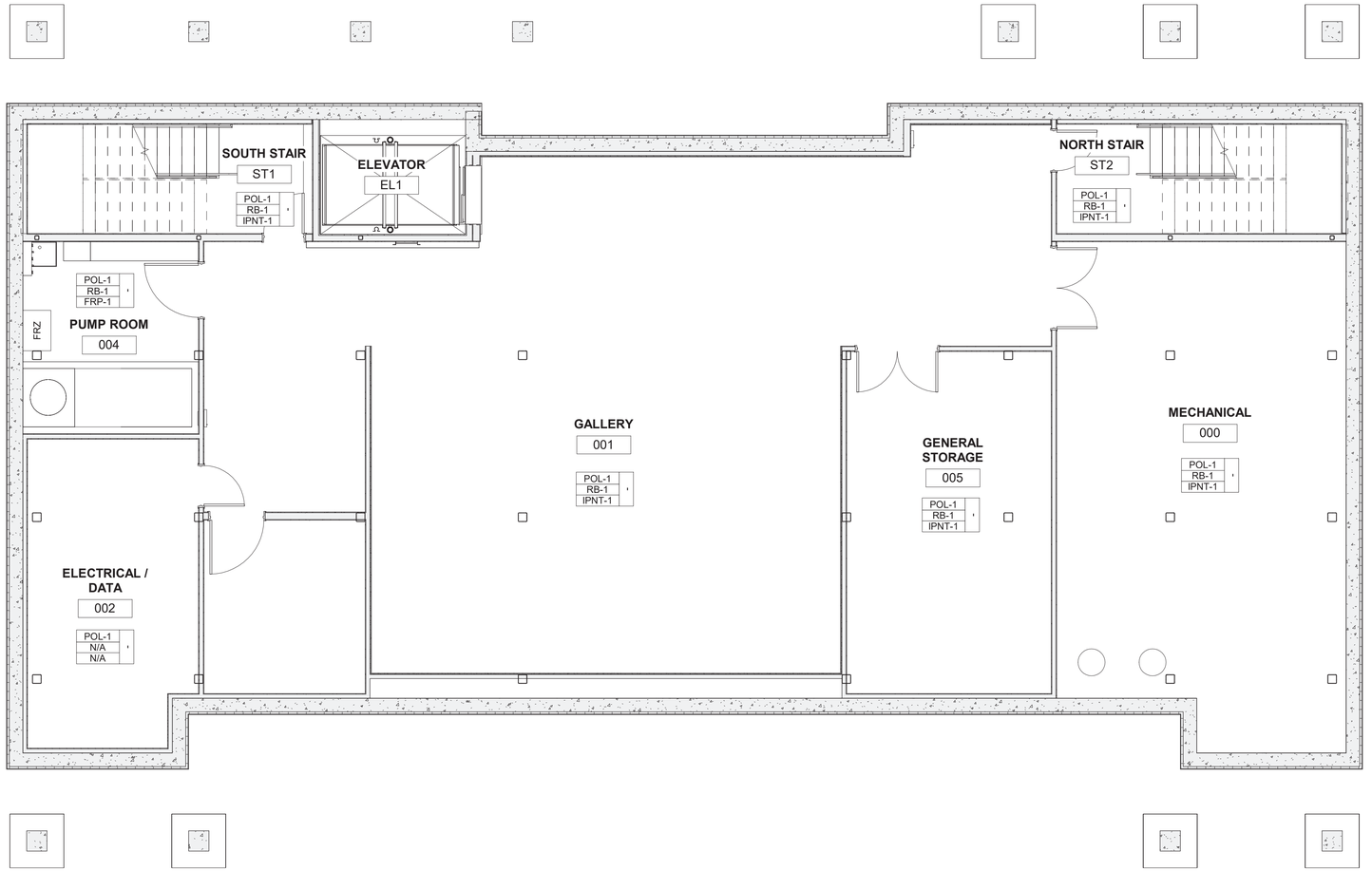
MISCELLANEOUS DETAILS

SHEET NO.
A8.7

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY AND COORDINATE ALL QUANTITIES, DIMENSIONS, CLEARANCES, AND REQUIRED ITEMS FOR INSTALLATION OF COMPONENTS OF WORK PRIOR TO FABRICATION, DELIVERY, AND INSTALLATION OF THAT WORK.
2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
3. REFER A0.9 FOR MATERIAL INFORMATION.
4. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1
5. ALL STEEL RELATED TO THE METAL PAN STAIRS AND RAILINGS (STRINGERS, RAILS, ETC.) TO BE PAINTED HPNT-1.
6. ALL EXPOSED DUCTWORK AND HANGERS (THREADED ROD, UNISTRUT, ETC.) TO BE PAINTED IPNT-1, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.
7. ALL MECHANICAL GRILLES AND EXPOSED CONDUIT AND PIPING TO BE FINISHED TO MATCH ADJACENT MOUNTING SURFACE, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.



1 FINISH FLOOR PLAN - LEVEL 0
3/16" = 1'-0"

N

REVISIONS
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FINISH FLOOR PLAN - LEVEL 0

SHEET NO.
A9.0

GENERAL NOTES

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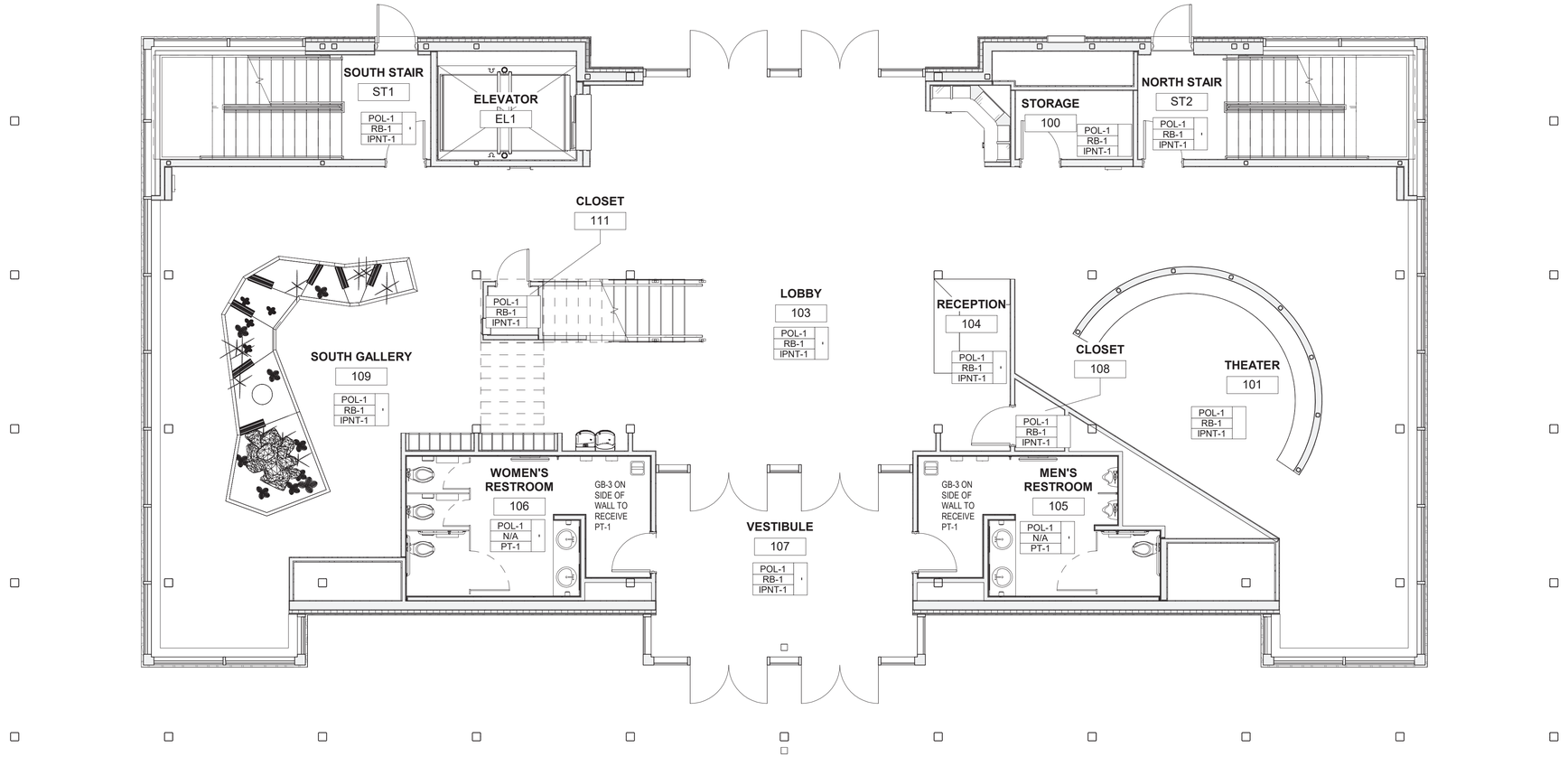
3. REFER A0.9 FOR MATERIAL INFORMATION.
4. ALL STRUCTURAL STEEL (BOTH EXPOSED AND CONCEALED) TO BE PAINTED HPNT-1
5. ALL STEEL RELATED TO THE METAL PAN STAIRS AND RAILINGS (STRINGERS, RAILS, ETC.) TO BE PAINTED HPNT-1.
6. ALL EXPOSED DUCTWORK AND HANGERS (THREADED ROD, UNISTRUT, ETC.) TO BE PAINTED IPNT-1, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.
7. ALL MECHANICAL GRILLES AND EXPOSED CONDUIT AND PIPING TO BE FINISHED TO MATCH ADJACENT MOUNTING SURFACE, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.



1 FINISH FLOOR PLAN - LEVEL 1
3/16" = 1'-0"

N

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FINISH FLOOR PLAN - LEVEL 1

SHEET NO.
A9.1

GENERAL NOTES

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2. REFER TO PLANS, ELEVATIONS, SECTIONS, AND DETAILS FOR ADDITIONAL INFORMATION.
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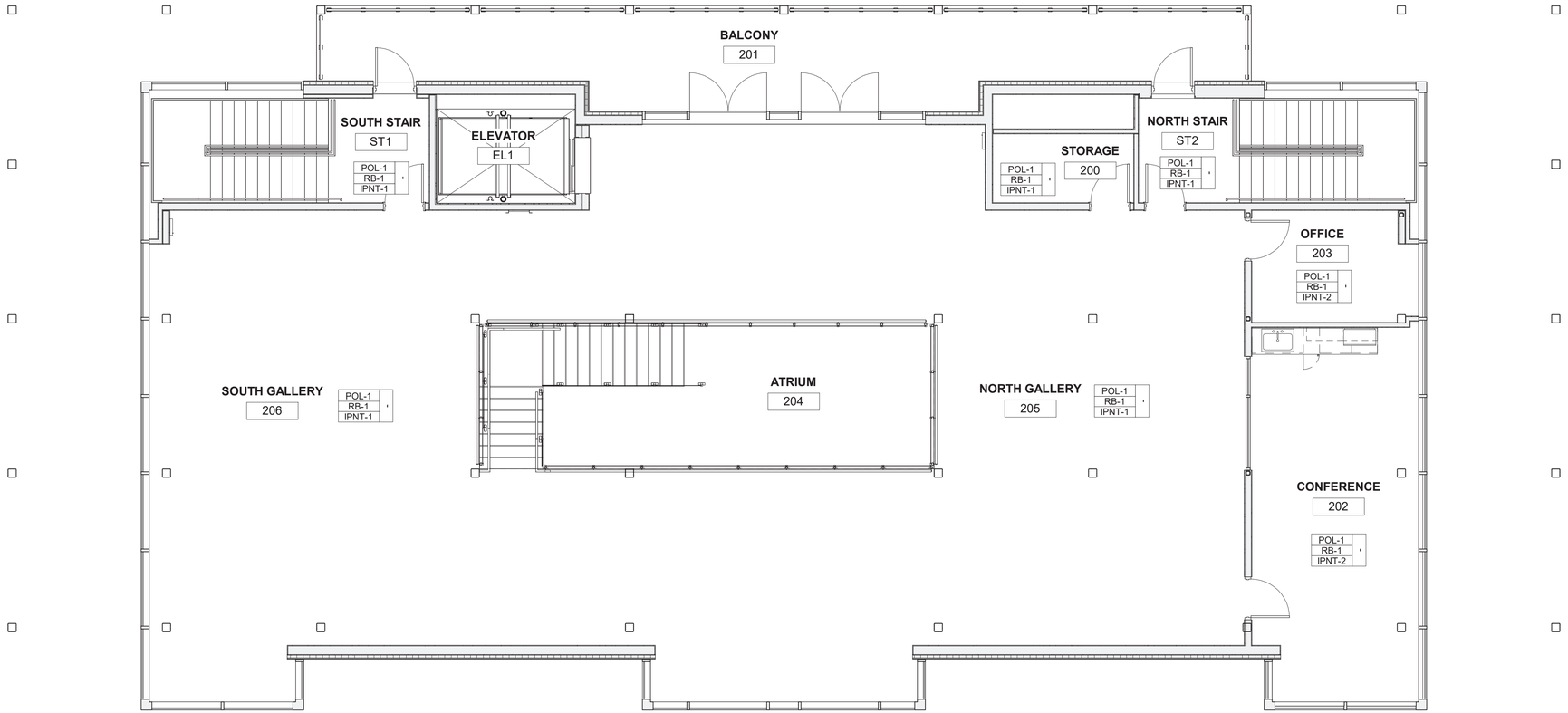
5. ALL STEEL RELATED TO THE METAL PAN STAIRS AND RAILINGS (STRINGERS, RAILS, ETC.) TO BE PAINTED HPNT-1.
6. ALL EXPOSED DUCTWORK AND HANGERS (THREADED ROD, UNISTRUT, ETC.) TO BE PAINTED IPNT-1, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.
7. ALL MECHANICAL GRILLES AND EXPOSED CONDUIT AND PIPING TO BE FINISHED TO MATCH ADJACENT MOUNTING SURFACE, EXCEPT IN MECHANICAL ROOM, ELECTRICAL / DATA ROOM, PUMP ROOM, AND CLOSETS WHERE THEY CAN REMAIN UNFINISHED.



1 FINISH FLOOR PLAN - LEVEL 2
3/16" = 1'-0"

N

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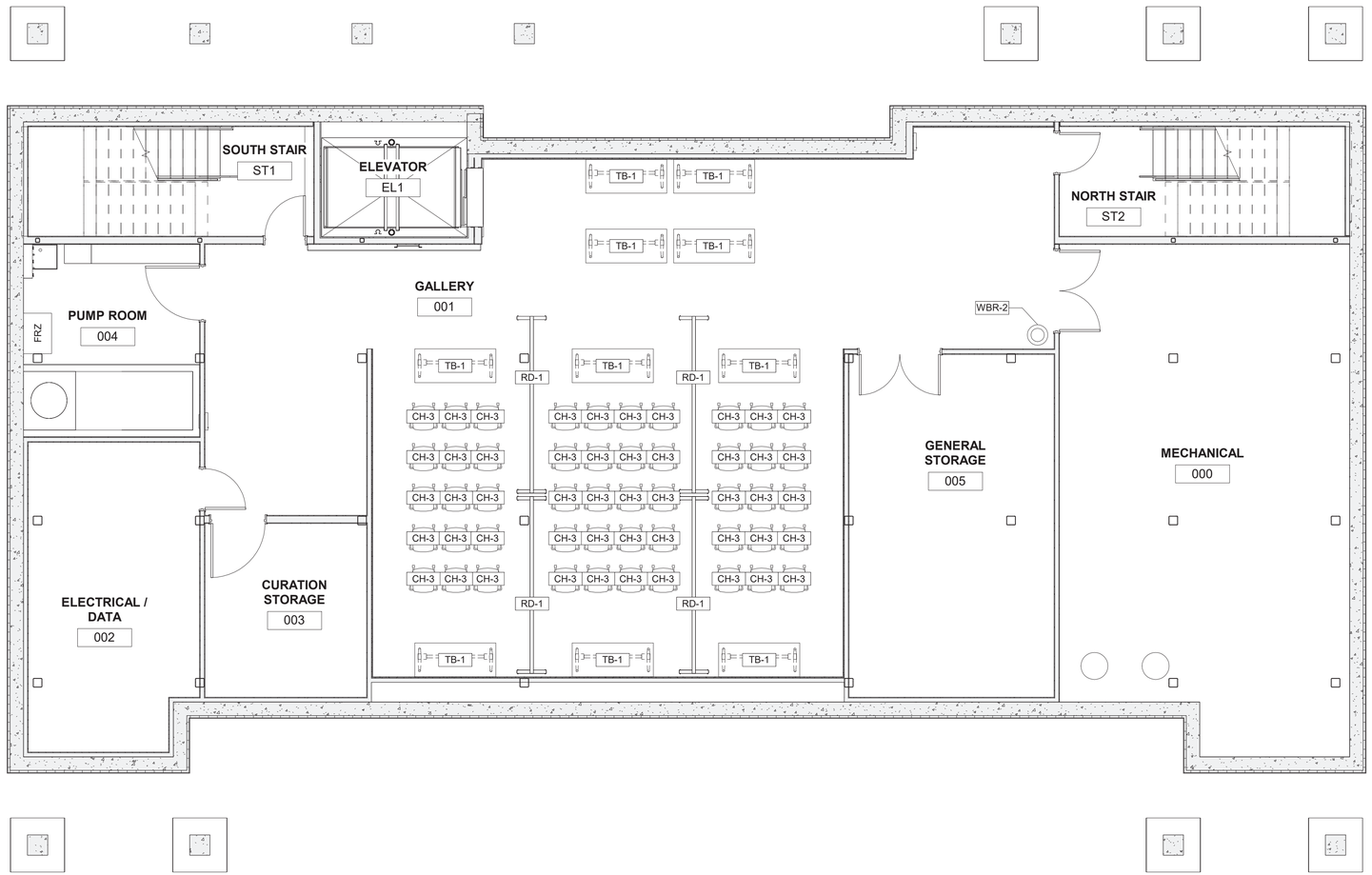
APPROVED BY:	Approver	DRAWING DATE:	06.16.2022

FINISH FLOOR PLAN - LEVEL 2

SHEET NO. A9.2

FURNITURE SCHEDULE

ROOM NO.	ROOM	NUMBER	QUANTITY
LEVEL 0			
001	GALLERY	CH-3	50
001	GALLERY	RD-1	4
001	GALLERY	TB-1	10
001	GALLERY	WBR-2	1
LEVEL 1			
103	LOBBY	CH-1	1
103	LOBBY	WBR-1	1
103	LOBBY	WBR-2	2
LEVEL 2			
200	STORAGE	LK-1	4
202	CONFERENCE	CH-1	10
202	CONFERENCE	TB-2	1
202	CONFERENCE	WBR-1	2
203	OFFICE	CH-1	2
203	OFFICE	CH-2	2
203	OFFICE	FWS-1	1
203	OFFICE	FWS-2	1
203	OFFICE	WBR-1	2



1 FURNITURE FLOOR PLAN - LEVEL 0
3/16" = 1'-0"

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	Designer	JOB NUMBER:	DNR-210003
DRAWN BY:	Author	SCALE:	As indicated
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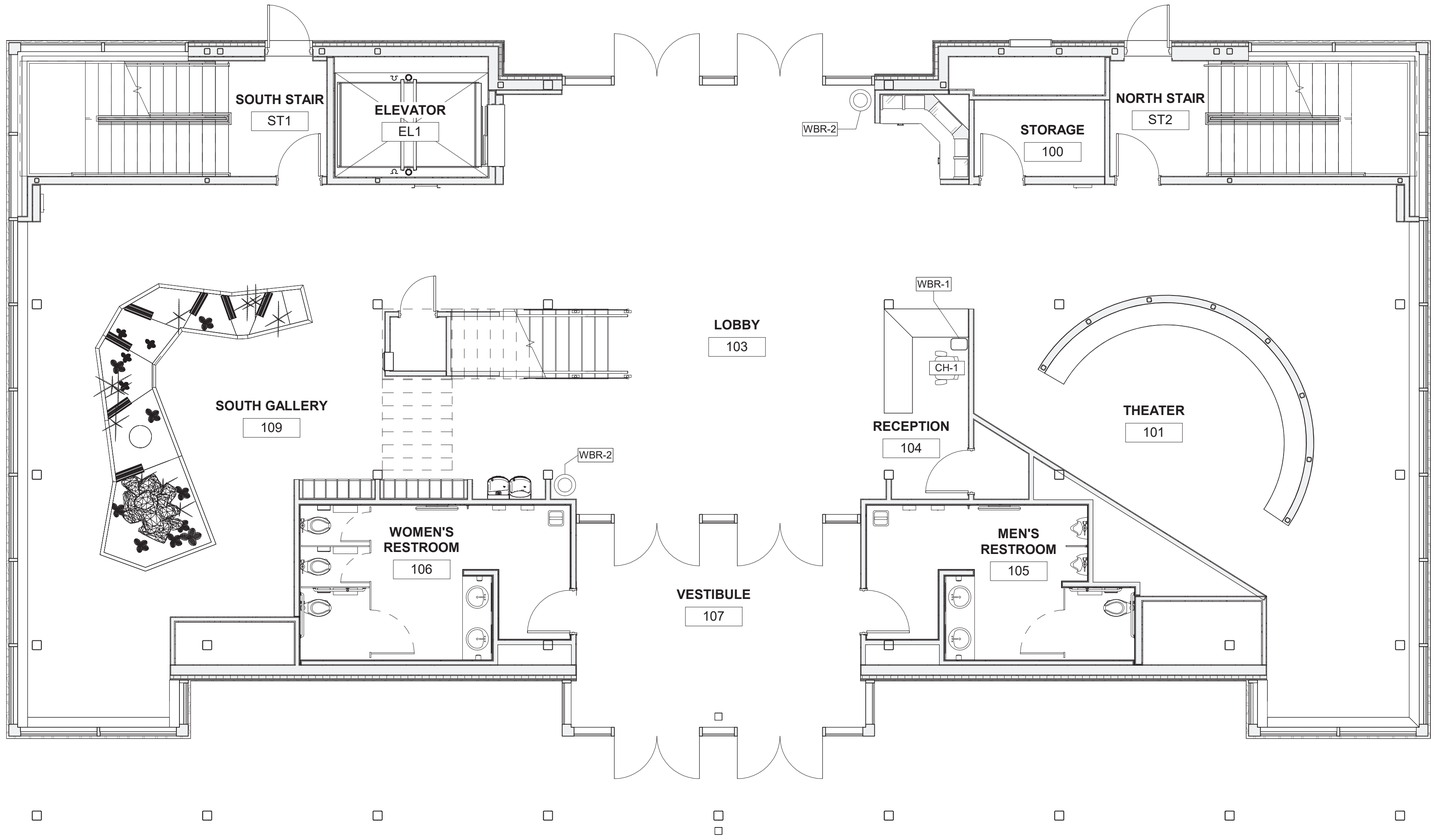
FURNITURE FLOOR PLAN - LEVEL 0

SHEET NO.
A10.0



1 FURNITURE FLOOR PLAN - LEVEL 1
3/16" = 1'-0"

FURNITURE SCHEDULE

ROOM NO.	ROOM	NUMBER	QUANTITY
LEVEL 0			
001	GALLERY	CH-3	50
001	GALLERY	RD-1	4
001	GALLERY	TB-1	10
001	GALLERY	WBR-2	1
LEVEL 1			
103	LOBBY	CH-1	1
103	LOBBY	WBR-1	1
103	LOBBY	WBR-2	2
LEVEL 2			
200	STORAGE	LK-1	4
202	CONFERENCE	CH-1	10
202	CONFERENCE	TB-2	1
202	CONFERENCE	WBR-1	2
203	OFFICE	CH-1	2
203	OFFICE	CH-2	2
203	OFFICE	FWS-1	1
203	OFFICE	FWS-2	1
203	OFFICE	WBR-1	2

N

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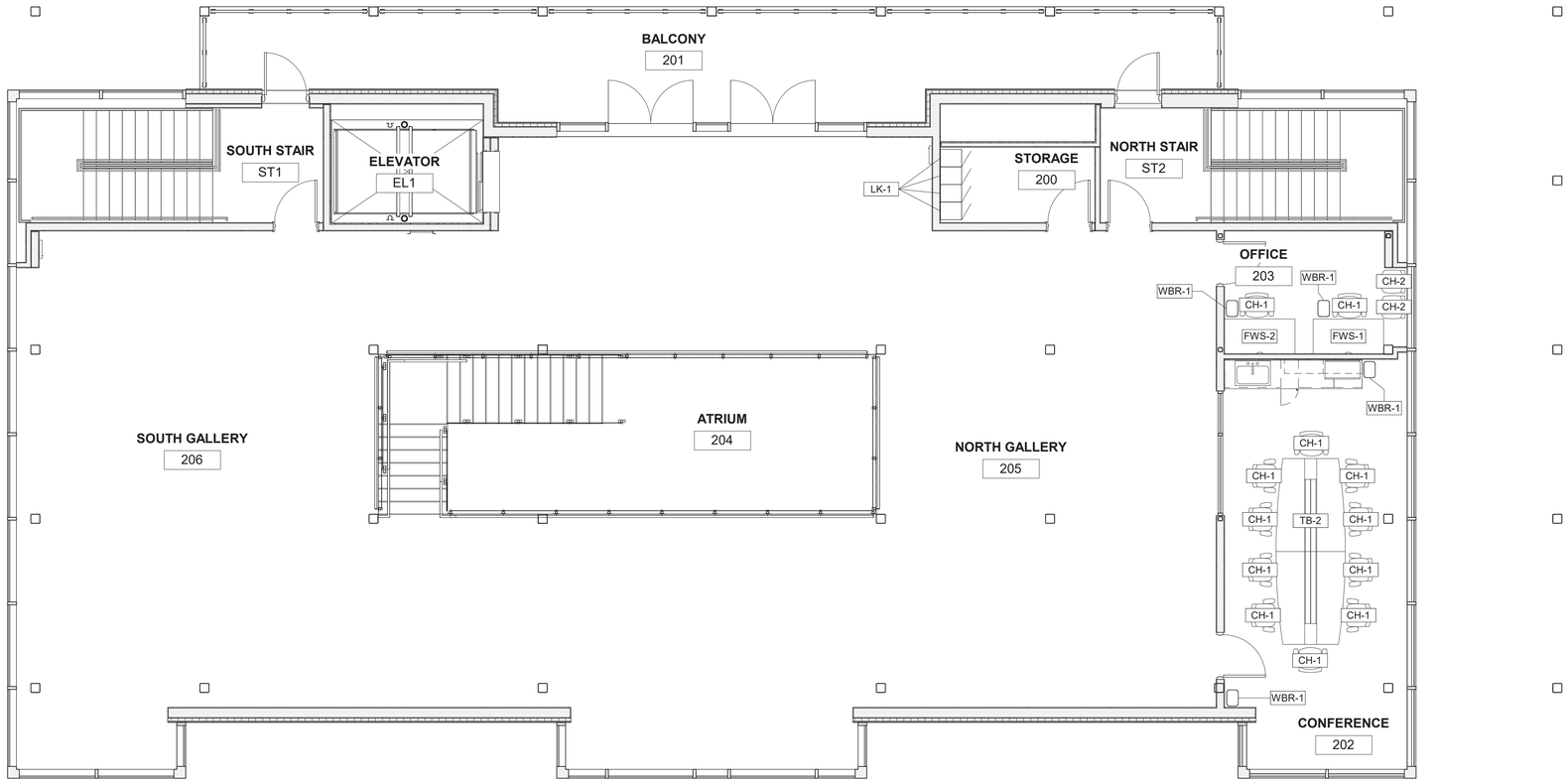
FURNITURE FLOOR PLAN - LEVEL 1

SHEET NO.
A10.1



1 FURNITURE FLOOR PLAN - LEVEL 2
3/16" = 1'-0"

N

FURNITURE SCHEDULE

ROOM NO.	ROOM	NUMBER	QUANTITY
LEVEL 0			
001	GALLERY	CH-3	50
001	GALLERY	RD-1	4
001	GALLERY	TB-1	10
001	GALLERY	WBR-2	1
LEVEL 1			
103	LOBBY	CH-1	1
103	LOBBY	WBR-1	1
103	LOBBY	WBR-2	2
LEVEL 2			
200	STORAGE	LK-1	4
202	CONFERENCE	CH-1	10
202	CONFERENCE	TB-2	1
202	CONFERENCE	WBR-1	2
203	OFFICE	CH-1	2
203	OFFICE	CH-2	2
203	OFFICE	FWS-1	1
203	OFFICE	FWS-2	1
203	OFFICE	WBR-1	2

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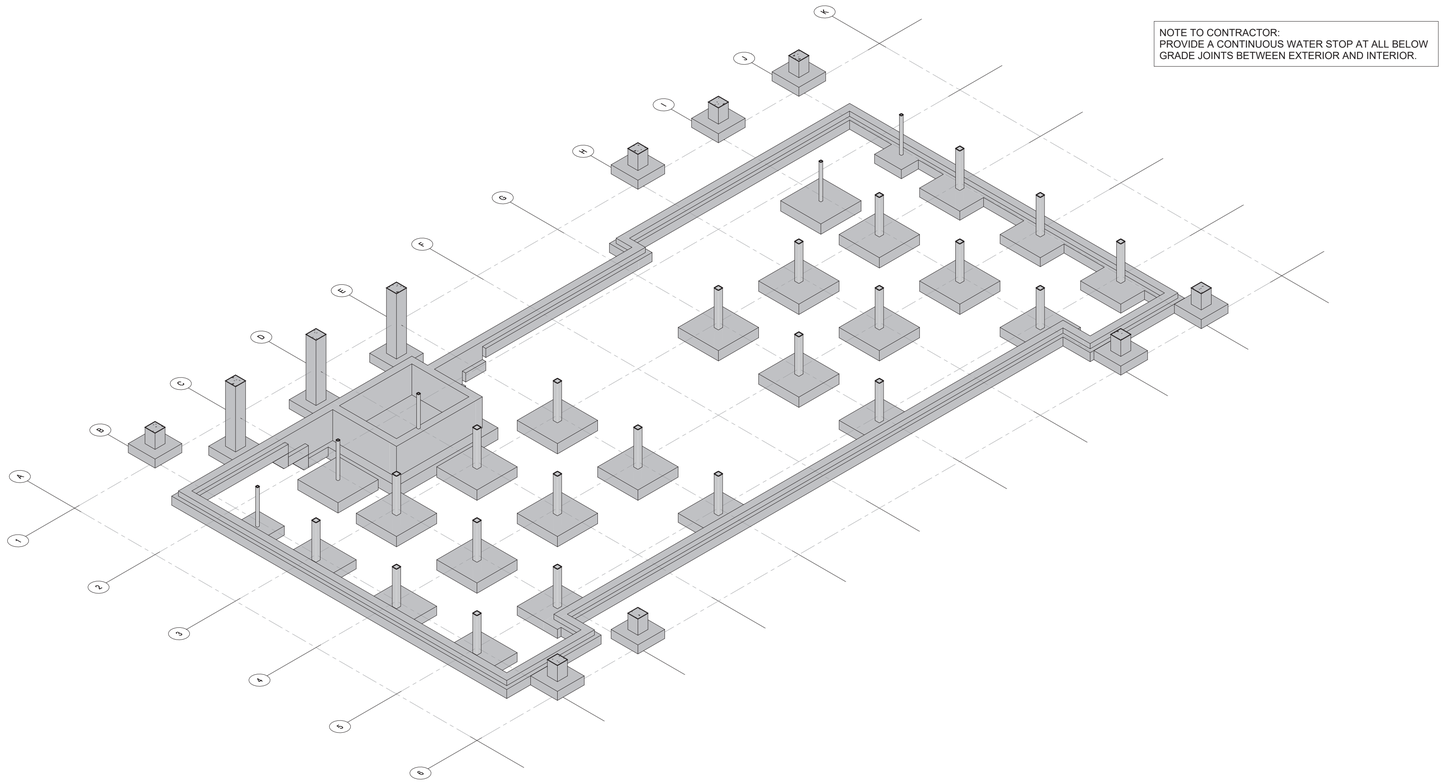
FURNITURE FLOOR PLAN - LEVEL 2

SHEET NO.
A10.2



NOTE TO CONTRACTOR:
PROVIDE A CONTINUOUS WATER STOP AT ALL BELOW GRADE JOINTS BETWEEN EXTERIOR AND INTERIOR.

1 **STRUCTURAL MODEL - FOUNDATION**

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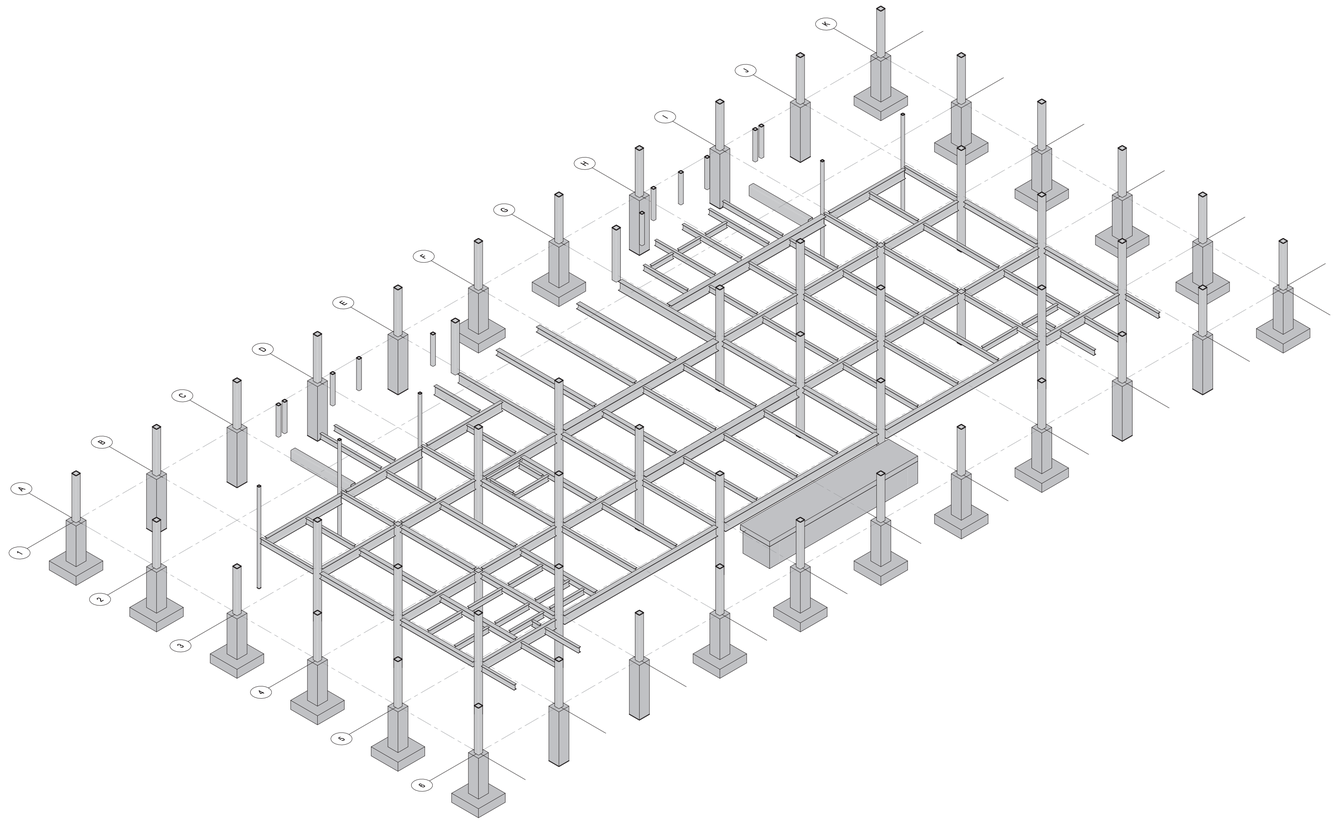
STRUCTURAL MODELS

SHEET NO.
S0.3



1 **STRUCTURAL MODEL - LEVEL 1 FRAMING**

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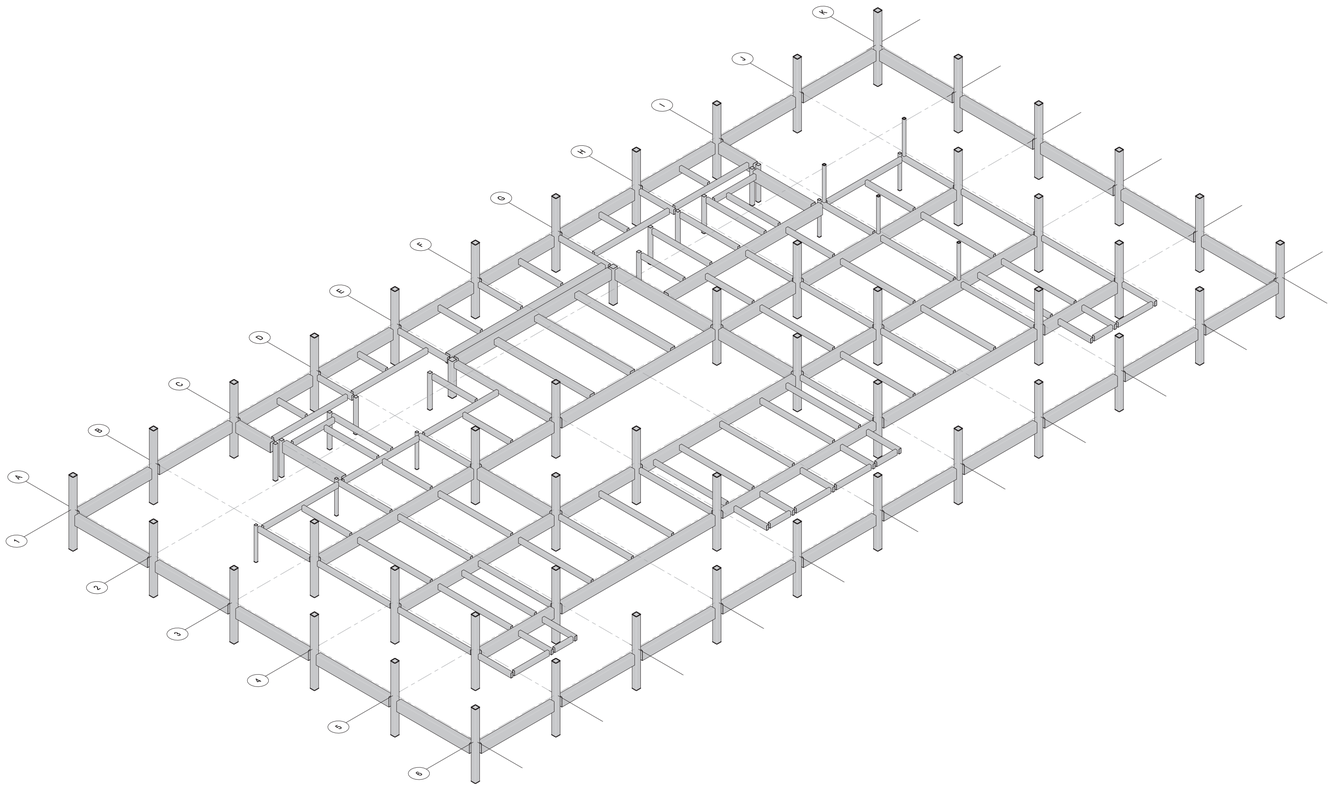
STRUCTURAL MODELS

SHEET NO.
S0.4



1 **STRUCTURAL MODEL - LEVEL 2 FRAMING**

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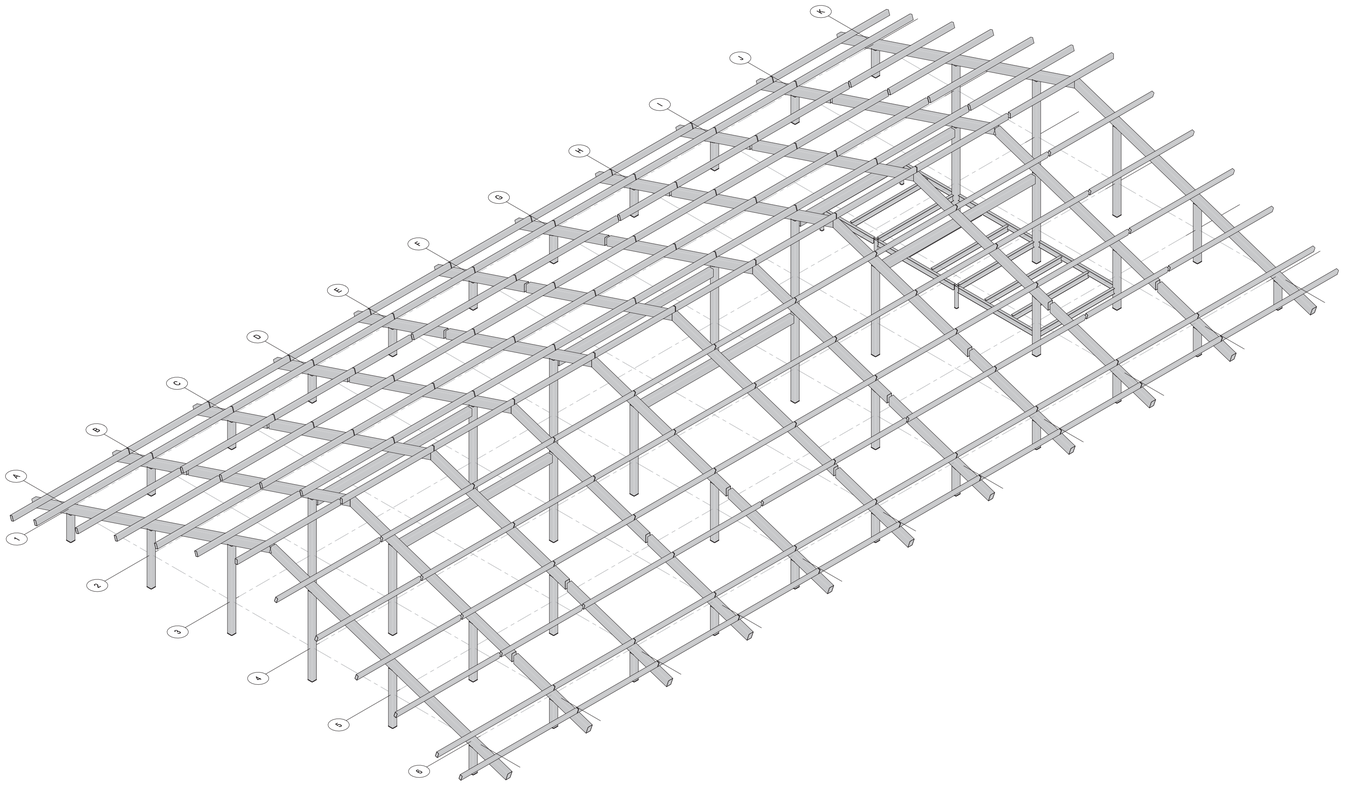
STRUCTURAL MODELS

SHEET NO.
S0.5



1 **STRUCTURAL MODEL - ROOF**

2 **STRUCTURAL MODEL - ABOVE OFFICE & CONFERENCE**

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06.16.2022 - CONFORMED SET

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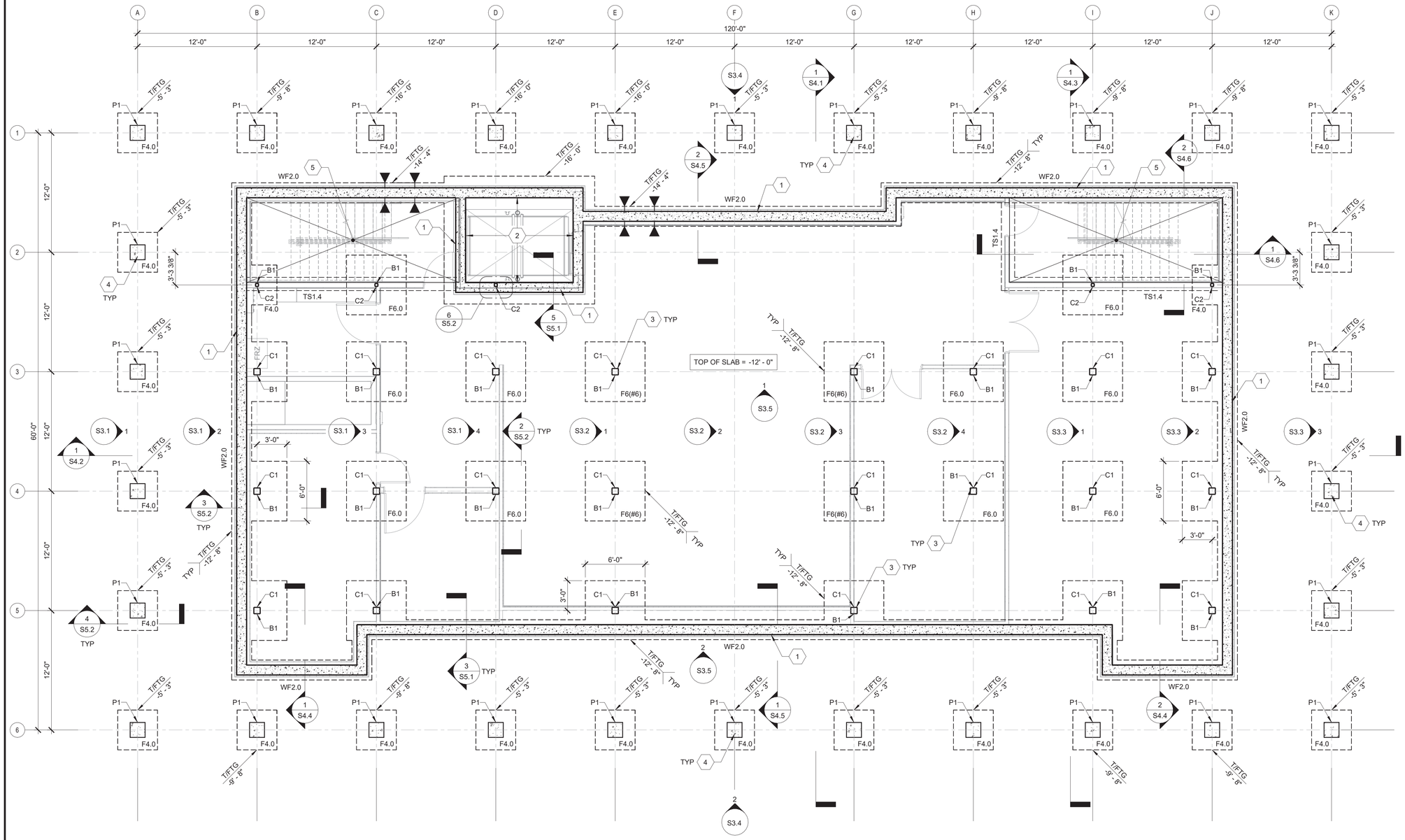
STRUCTURAL MODELS

SHEET NO.
S0.6



GENERAL NOTES:

A. COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.

B. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, OPENINGS, ETC W/ ARCH DWGS.

C. FLOOR CONSTRUCTION:
5" S.O.G. W/ 6 x 6 x W1.4 / W1.4 WWF OVER VAPOR BARRIER ON 4" DEEP COMPACTED GRANULAR FILL. PROVIDE SAW CUTS @12'-0" O.C. (MAX). SEE 1/S5.00 FOR JOINT CUTS.

D. BASEMENT WALL REINFORCING:
VERTICAL = #5 BARS @12" O.C. - EA FACE
HORIZONTAL = #5 BARS @12" O.C. - EA FACE

E. TS1.4 = THICKENED SLAB 1'-4" W x 1'-2" D W/ (3) #5 BARS

F. ▶ - INDICATES FOOTING STEP - SEE DETAIL 7/S5.1

CODED NOTES:

1. 12" REINF CONC WALL ON REINF CONC FOOTING - SEE DETAIL 3/S5.1
2. REINF CONC ELEVATOR PIT - SEE DETAIL 5/S5.1
3. INTERIOR HSS COLUMN ON REINF CONC FOOTING - SEE SCHEDULES
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. STAIR FRAMING AND LANDING BY STAIR DESIGNER

NOTE TO CONTRACTOR:
COORDINATE W/ STEEL AND ELEVATOR SUPPLIERS AS NEEDED TO PROVIDE REQUIRED ADDITIONAL STEEL SUPPORT. INSTALL (2) ADDITIONAL FULL HEIGHT STEEL COLUMNS FOR SUPPORT OF ELEVATOR GUIDE RAILS, SIZE TO BE VERIFIED BY FINAL APPROVED ELEVATOR SHOPS. ASSUME W6 x25 / HSS 6x6x5/16, W/ 5/8" BASE PLATE W/ (4) 5/8" DIA ANCHOR BOLTS AND WELDED 3/8" TABS AT EACH FLOOR. PROVIDE WELDED RAIL BRACKETS AS REQUIRED BY FINAL APPROVED ELEVATOR SHOPS. INSTALL (1) HOIST WAY BEAM AS REQUIRED BY FINAL APPROVED ELEVATOR SHOPS. ASSUME W8 x24 STEEL BEAM TO BE SUPPORTED BY RAIL SUPPORT COLUMNS. PROVIDE ADDITIONAL 200 LBS OF MISC. STEEL ANGLE/PLATE/BOLTS AS NEEDED AND DIRECTED BY ELEVATOR SUPPLIER.

1 FOUNDATION PLAN

3/16" = 1'-0"

WALL FOOTING SCHEDULE

MARK	WIDTH	THICKNESS	LENGTH	REINFORCING	TOP OF FOOTING
WF2.0	2' - 0"	1' - 2"	CONT	(4) #5 BARS	SEE PLAN

BASE PLATE SCHEDULE

MARK	BASE PLATE SIZE	BASE PLATE ANCHORS
B1	15" x 15" x 1 1/4"	(8) 1" DIA ANCHORS
B2	15" x 15" x 1 1/4"	(8) 3/4" DIA ANCHORS
B3	16" x 12" x 1"	(4) 3/4" DIA ANCHORS

COLUMN FOOTING SCHEDULE

MARK	WIDTH	LENGTH	THICKNESS	REINFORCING	TOP OF FOOTING
F4.0	4' - 0"	4' - 0"	1' - 2"	BOT - #4 BARS @6" O.C., EA WAY TOP - #3 BARS @8" O.C., EA WAY	SEE PLAN
F6(#6)	6' - 0"	6' - 0"	1' - 4"	BOT - #6 BARS @6" O.C., EA WAY TOP - #4 BARS @8" O.C., EA WAY	-12' - 8"
F6.0	6' - 0"	6' - 0"	1' - 4"	BOT - #5 BARS @6" O.C., EA WAY TOP - #4 BARS @8" O.C., EA WAY	-12' - 8"

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHORS
C1	HSS8X8X3/8	SEE PLAN/SCHEDULE	SEE PLAN/SCHEDULE
C2	HSS4X4X1/2	SEE PLAN/SCHEDULE	SEE PLAN/SCHEDULE
✱ C3	HSS5X5X3/8	7 1/2" x 13" x 3/4"	(4) 3/4" DIA

✱ PROVIDE REINF PILASTER IN KNEE WALL - SEE 5/S5.2 - SEE S1.1 FOR COLUMN LOCATIONS

PIER SCHEDULE

MARK	SIZE	REINFORCING	TOP OF PIER
P1	18" x 18"	(12) #5 VERT BARS W/ #3 TIES @6" O.C.	0'-0"

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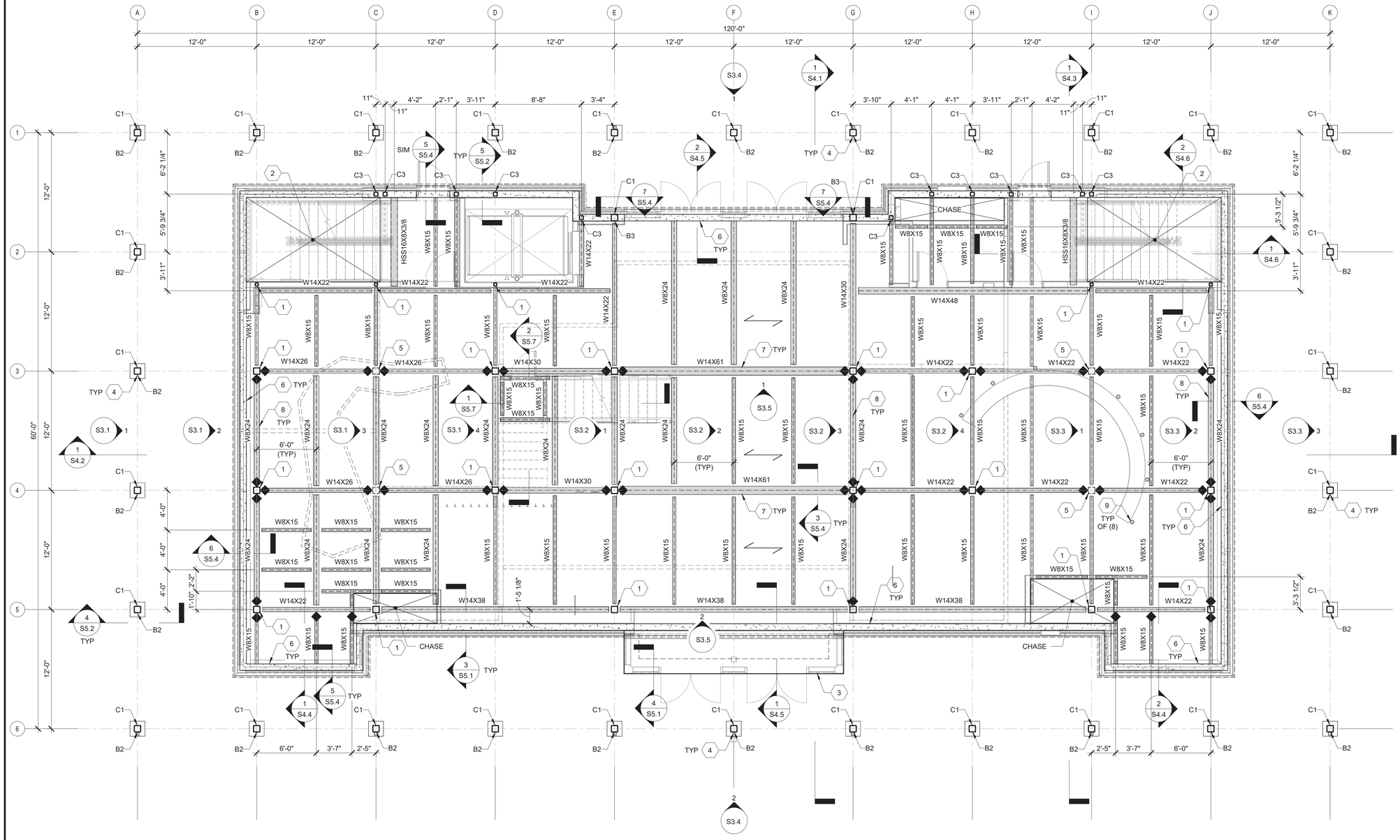
FOUNDATION PLAN

SHEET NO. **S1.0**



GENERAL NOTES:

A. COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.

B. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, OPENINGS, ETC W/ ARCH DWGS.

C. FLOOR CONSTRUCTION:
1 1/2" x 18 GA COMPOSITE METAL DECK W/ CONC, 5 1/2" TOTAL THICKNESS (WT = 57 PSF) W/ W6x6 - W1.4xW1.4 WWR AND FIBER.

D. TOP OF LEVEL 1 BEAMS = -5 1/2" U.N.O.

E. PROVIDE CONT L4 x 4 x 3/8 ALONG BASEMENT WALL FOR SUPPORT OF METAL DECK.

F. ◆ = INDICATES FULL MOMENT CONNECTION BY SUPPLIER.

G. ⟋ = INDICATES SPAN DIRECTION OF METAL DECK

CODED NOTES:

1. HSS COLUMN FROM BELOW
2. STAIR FRAMING AND LANDING BY STAIR DESIGNER
3. TURNED DOWN FOUNDATION WALL / SLAB - SEE DETAIL 4/S5.1
4. EXTERIOR HSS COLUMN ON REINF CONC PIER - SEE SCHEDULES
5. HSS COLUMN BELOW
6. CONT L4x4x3/8 PERIMETER ANGLE BOLTED TO WALL
7. PROVIDE (2) 3/4" DIA x 3 1/2" LG HEADED STUDS @16" O.C. ALONG LENGTH OF BEAM ALONG COLUMN LINES 3 & 4
8. PROVIDE (2) 3/4" DIA x 3 1/2" LG HEADED STUDS @16" O.C. ALONG LENGTH OF BEAM ALONG COLUMN LINES B, G & J
9. HSS 4x3x5/16 VERT TUBE W/ 3 1/2" WIDE x 13" LG x 5/8" THICK BASE PLATE W/ (4) 5/8" DIA THRU-BOLTS W/ 5/8" PLATE ON UNDERSIDE OF METAL DECK - BASE PLATE TO BE LOCATED AND HIDDEN INSIDE WALL
- PROVIDE HSS 3x3x5/16 BENT RUNNER AT TOP OF POSTS - SEE ARCH FOR RADIUS - WELD 12 GA TRACK TOGETHER AS REQUIRED TO FORM RADIUS FOR A CONT TRACK

1 LEVEL 1 FRAMING PLAN

3/16" = 1'-0"

BASE PLATE SCHEDULE

MARK	BASE PLATE SIZE	BASE PLATE ANCHORS
B1	15" x 15" x 1 1/4"	(8) 1" DIA ANCHORS
B2	15" x 15" x 1 1/4"	(8) 3/4" DIA ANCHORS
B3	16" x 12" x 1"	(4) 3/4" DIA ANCHORS

COLUMN SCHEDULE

MARK	SIZE	BASE PLATE	ANCHORS
C1	HSS8X8X3/8	SEE PLAN/SCHEDULE	SEE PLAN/SCHEDULE
C2	HSS4X4X1/2	SEE PLAN/SCHEDULE	SEE PLAN/SCHEDULE
✱ C3	HSS5X5X3/8	7 1/2" x 13" x 3/4"	(4) 3/4" DIA

✱ PROVIDE REINF PILASTER IN KNEE WALL - SEE 5/S5.2

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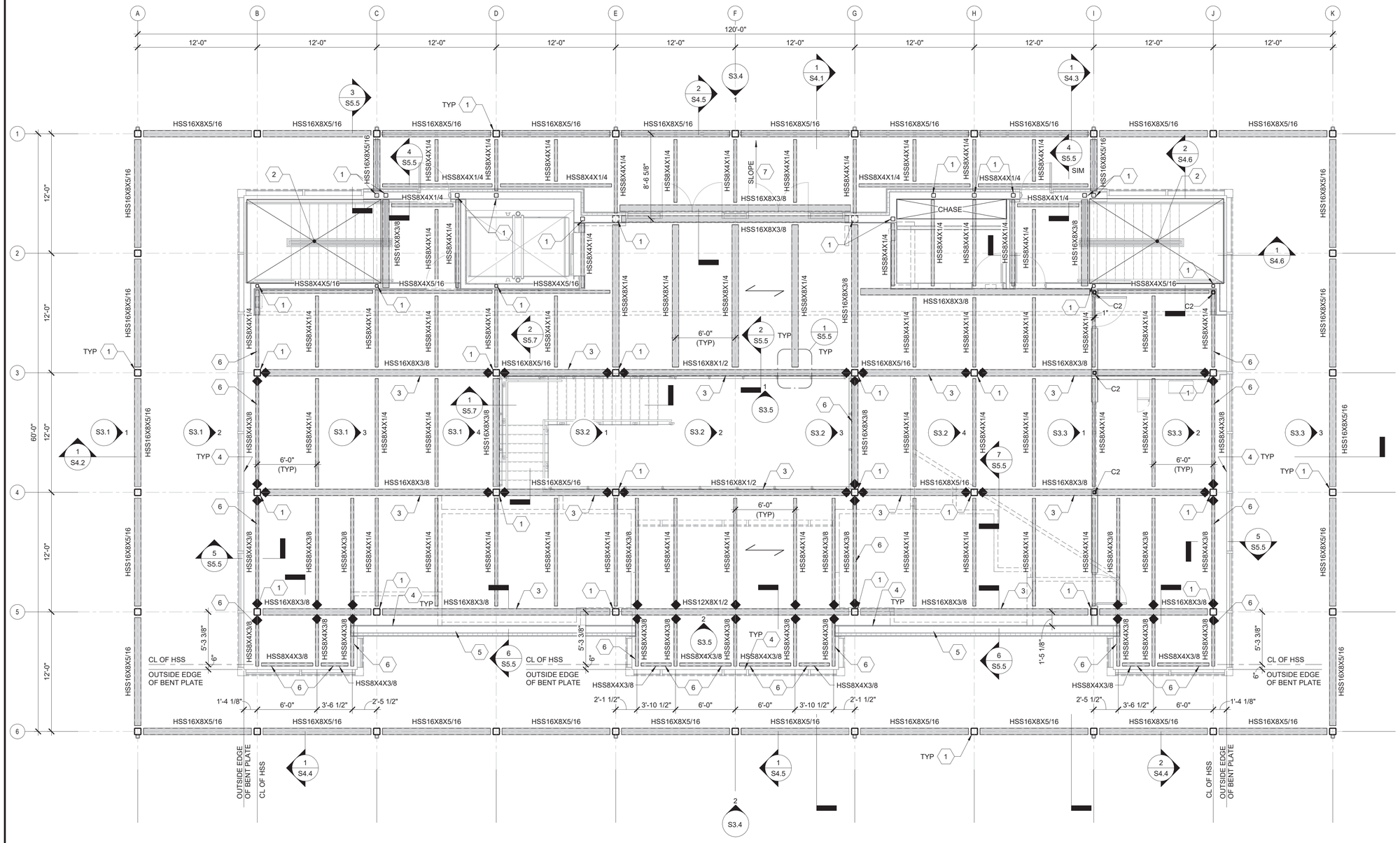
LEVEL 1 FLOOR FRAMING PLAN

SHEET NO. **S1.1**



1 LEVEL 2 FRAMING PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.

B. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, OPENINGS, ETC W/ ARCH DWGS.

C. INTERIOR FLOOR CONSTRUCTION:
1 1/2" x 18 GA COMPOSITE METAL DECK W/ CONC, 5 1/2" TOTAL THICKNESS (WT = 57 PSF) W/ W6x6 - W1.4xW1.4 WWR AND FIBER.

D. BALCONY FLOOR CONSTRUCTION:
1 1/2" x 18 GA GALVANIZED G90 METAL DECK W/ BOTTOM SIDE PRIME PAINTED W/ 5 1/2" TO 5" TOTAL THICKNESS. REINF W/ EPOXY COATED W6x6 - W1.4xW1.4 WWR

E. TOP OF LEVEL 2 BEAMS = 11' - 6 1/2" U.N.O.

F. COORDINATE CURTAIN WALL CONNECTIONS W/ SUPPLIER, INCLUDING AND ADDITIONAL CLIPS/BOLTS/STANDOFFS.

G. ◆ = INDICATES FULL MOMENT CONNECTION BY SUPPLIER.

H. C2 = INDICATES HSS 4X4X1/2 COLUMN

I. PROVIDE WATERPROOFING AND TRAFFIC COATING SYSTEM TO BALCONY. PROVIDE ELASTOMERIC POLYURETHANE WATERPROOFING W/ FLEXIBILITY AND ABRASION RESISTANCE. BASIS OF DESIGN: SIKA 726 BALCONY ONE SHOT OR APPROVED EQUAL.

J. ⟋ = INDICATES SPAN DIRECTION OF METAL DECK

CODED NOTES:

1. HSS COLUMN FROM BELOW
2. STAIR FRAMING AND LANDING BY STAIR DESIGNER
3. PROVIDE (2) 3/4" DIA x 3 1/2" LG HEADED STUDS @12" O.C. ALONG LENGTH OF TUBE - WELD TO TOP OF TUBE
4. CONT BENT PLATE AROUND PERIMETER
5. 8" x 18 GA COLD FORMED METAL STUD WALL
6. PROVIDE (1) 3/4" x 3 1/2" LG HEADED STUDS @16" O.C. ALONG LENGTH OF TUBE - WELD TO TOP OF TUBE
7. SLOPE BALCONY DECK BY PROVIDING 5" THICK CONC AT COLUMN LINE 1

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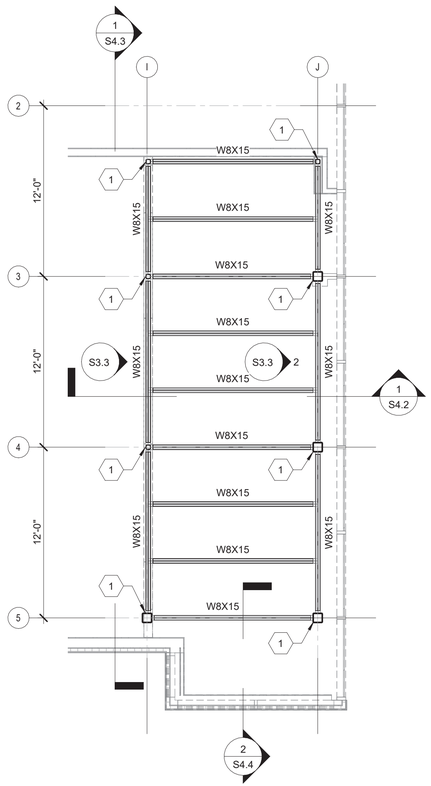
LEVEL 2 FLOOR FRAMING PLAN

SHEET NO. **S1.2**



1 ABOVE OFFICE & CONFERENCE FRAMING PLAN

3/16" = 1'-0"

GENERAL NOTES:

A. COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.

B. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, OPENINGS, ETC W/ ARCH DWGS.

C. TOP OF BEAMS = 22' - 8" U.N.O.

CODED NOTES:

1 HSS COLUMN FROM BELOW

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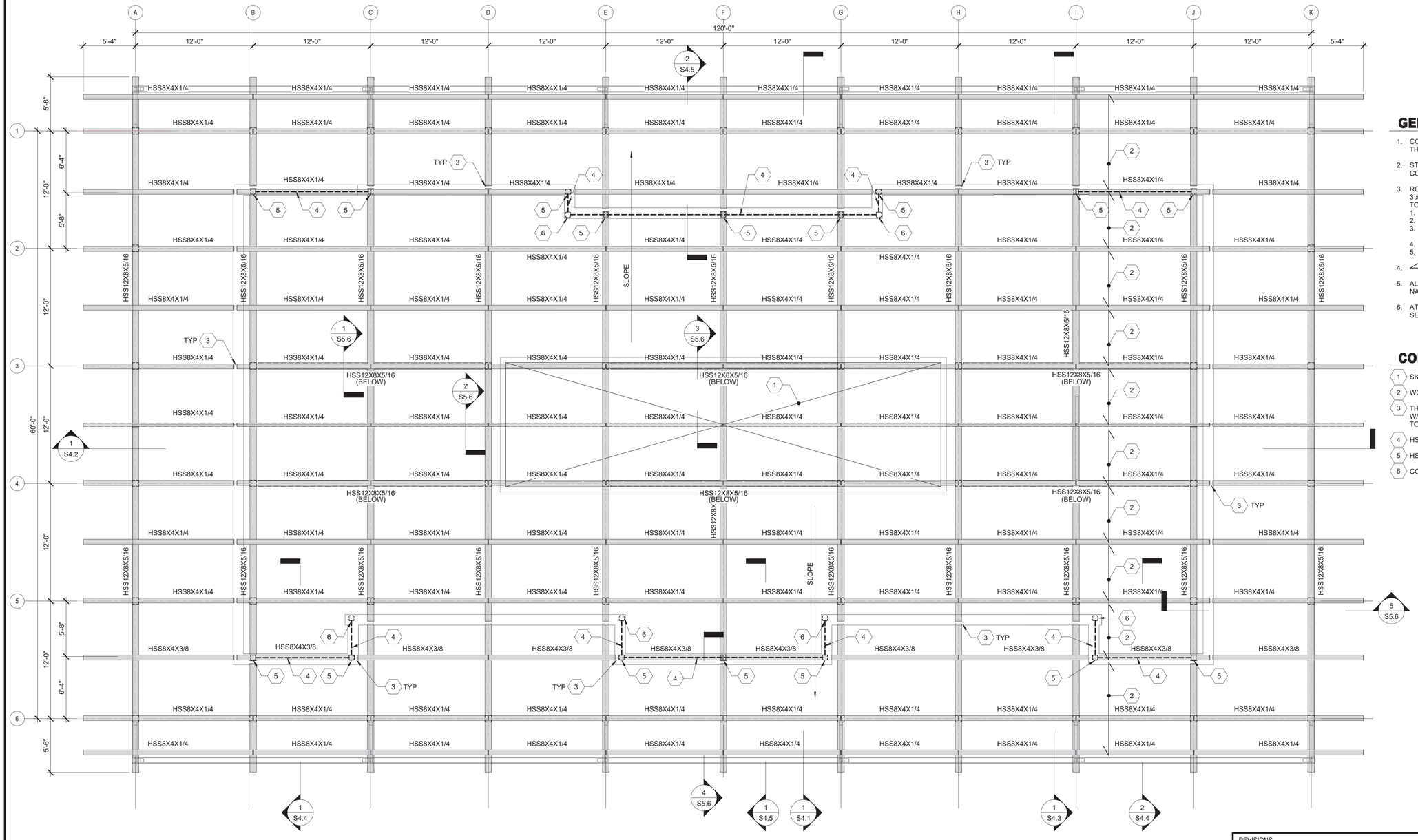
ABOVE CONFERENCE & OFFICE FRAMING PLAN

SHEET NO.
S1.3



GENERAL NOTES:

1. COORDINATE ALL DIMENSIONS W/ ARCH DWGS. IN CASE OF CONFLICT, THE DIMENSIONS SHOWN IN THE ARCH DWGS GOVERN.
2. STRUCTURAL PLANS ARE AN EXTENSION OF ARCHITECTURAL PLANS. COORDINATE LOCATIONS OF COLUMNS, OPENINGS, ETC W/ ARCH DWGS.
3. ROOF CONSTRUCTION:
   3 x12 WOOD TNG PLANKS W/ 15/32" PLYWOOD SHEATHING. WOOD PLANKS TO BE INSTALLED BY CONTRACTOR - SEE ARCH DWGS:
   1. ALL JOINTS SHALL FALL OVER PURLIN SUPPORT
   2. PLANKS TO BE CONTINUOUS OVER A MIN OF (2) SUPPORTS.
   3. PLANKS MAY BE LAYERED UP AS A "CONTROLLED RANDOM LAYUP" W/ JOINTS RANDOMLY OCCURRING AT DIFFERENT SUPPORTS.
   4. PLANKS TO BE GLUED BETWEEN COMMON EDGES OF DECKING.
   5. NAIL PLYWOOD TO TOP OF PLANKS W/ 10d NAILS - SEE DETAIL 4/S5.3.
4.  - SPAN DIRECTION OF ROOF PLANKS.
5. ALL STEEL DIRECTLY SUPPORTING WOOD PLANKS SHALL HAVE A 2X WOOD NAILER BOLTED TO TOP W/ 1/2" DIA BOLT (FLUSH W/ NAILS) @24" O.C.
6. ATTACH EACH WOOD PLANK TO NAILER W/ (2) #12 0R #14 - 3 1/2" LG SELF- DRILLING WOOD SCREWS.

CODED NOTES:

1. SKYLIGHT - COORD W/ ARCH
2. WOOD ROOF PLANKS
3. THERMAL BREAK: STEEL FABRICATOR TO PROVIDE BOLTED CONNECTION W/ A THERMAL BREAK PAD BTW EXTERIOR/INTERIOR STEEL - CONNECTION TO TRANSFER FULL MOMENT AND SHEAR OF BEAM
4. HSS 6X6X1/4 AT TOP OF CURTAIN WALL - SEE DETAIL 4/S5.6
5. HSS 6X6X1/4 HANGER - SEE DETAIL 4/S5.6
6. COLD FORMED BOXED COLUMN SUPPORT BY SUPPLIER FOR END OF HSS

1 ROOF FRAMING PLAN

3/16" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

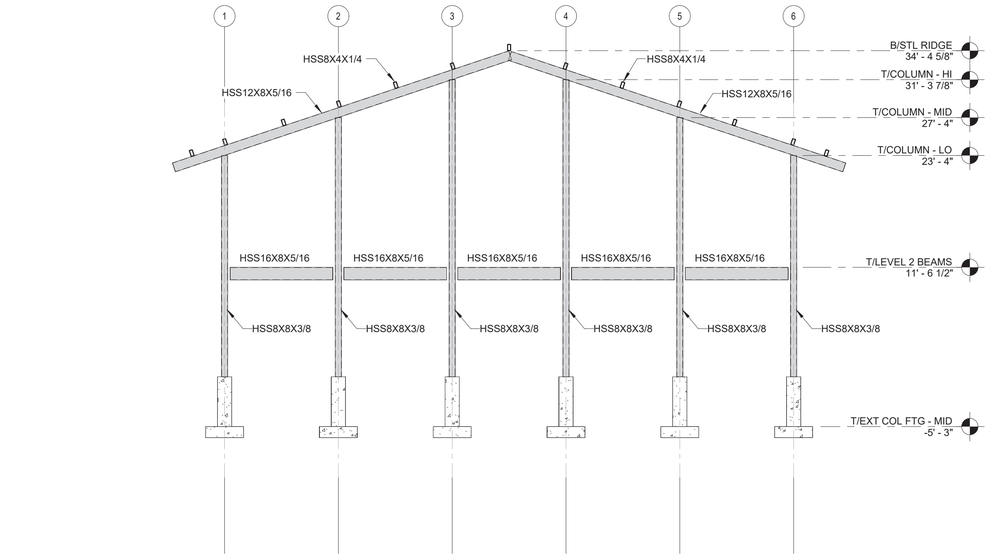
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	JFD	JOB NUMBER:	DNR-210003
DRAWN BY:	KABIL	SCALE:	As indicated
CHECKED BY:	SPS	PERMIT DATE:	02.25.2022
APPROVED BY:	SPS	DRAWING DATE:	06.16.2022

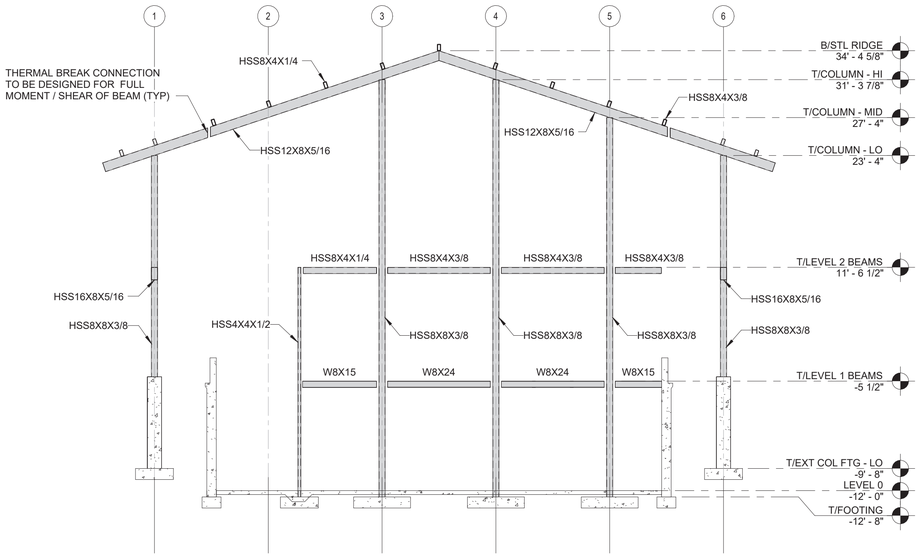
ROOF FRAMING PLAN

SHEET NO. **S1.4**



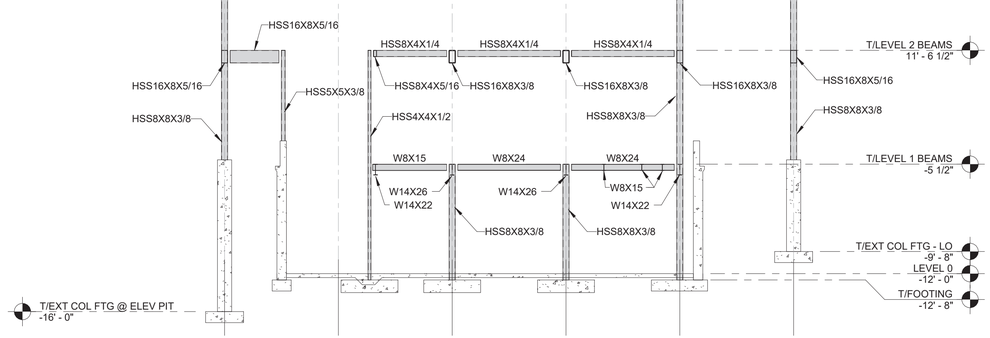
1 FRAMING ELEVATION - GRID LINE A

1/8" = 1'-0"



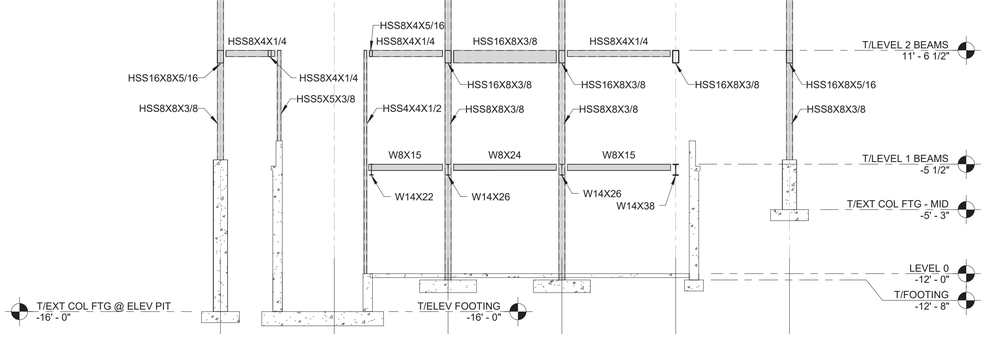
2 FRAMING ELEVATION - GRID LINE B

1/8" = 1'-0"



3 FRAMING ELEVATION - GRID LINE C

1/8" = 1'-0"



4 FRAMING ELEVATION - GRID LINE D

1/8" = 1'-0"

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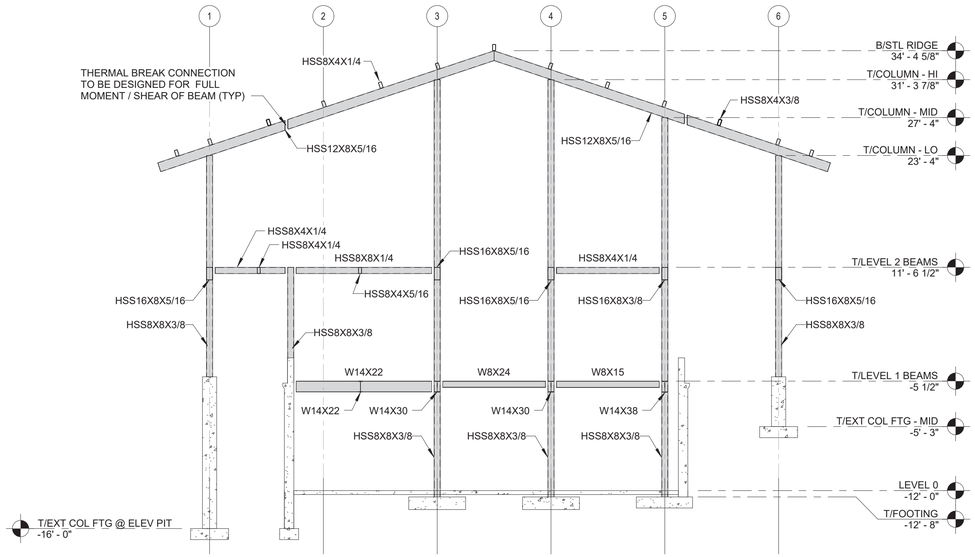
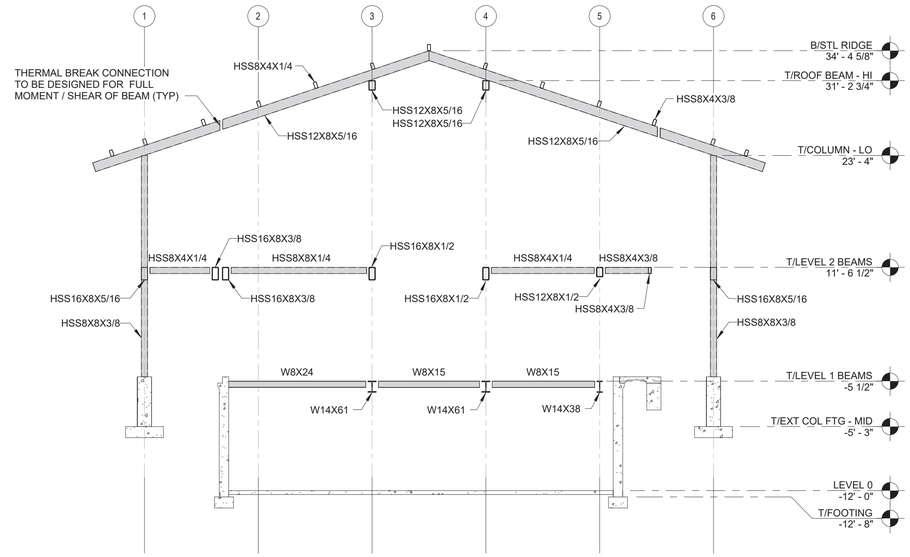
FRAMING ELEVATIONS

SHEET NO.
S3.1



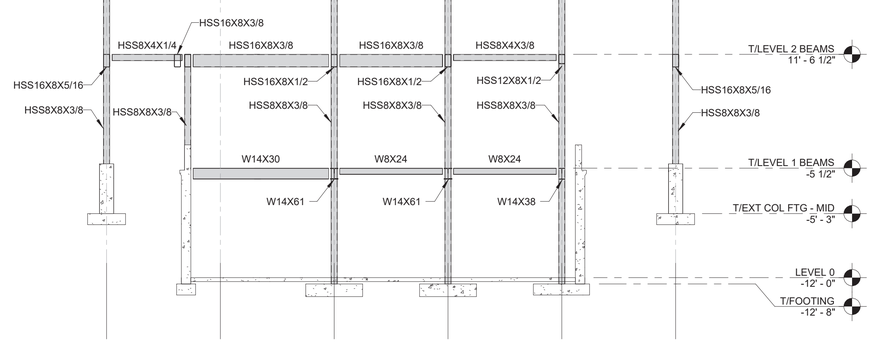
1 FRAMING ELEVATION - GRID LINE E

1/8" = 1'-0"



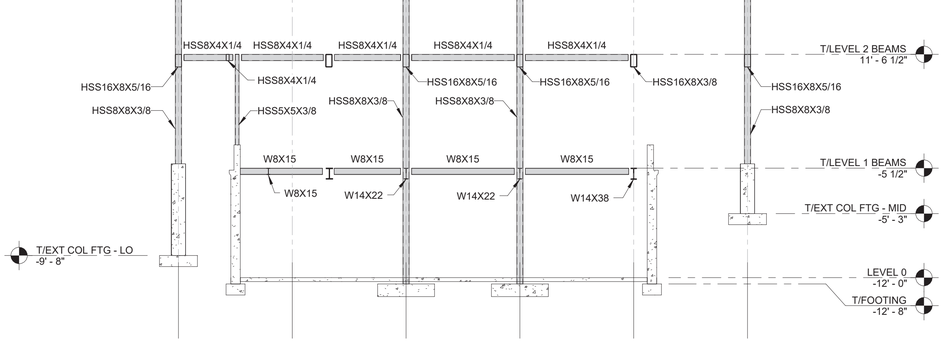
2 FRAMING ELEVATION - GRID LINE F

1/8" = 1'-0"



3 FRAMING ELEVATION - GRID LINE G

1/8" = 1'-0"



4 FRAMING ELEVATION - GRID LINE H

1/8" = 1'-0"

REVISIONS

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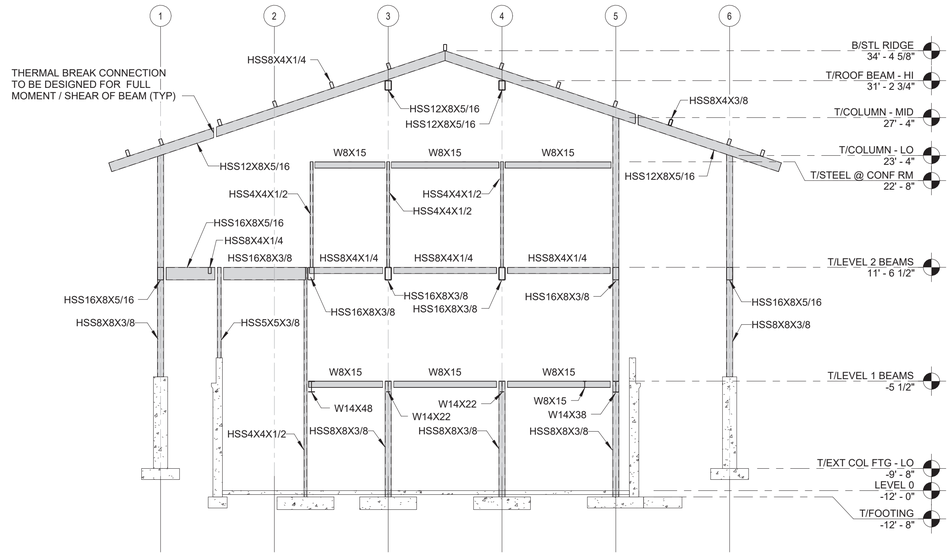
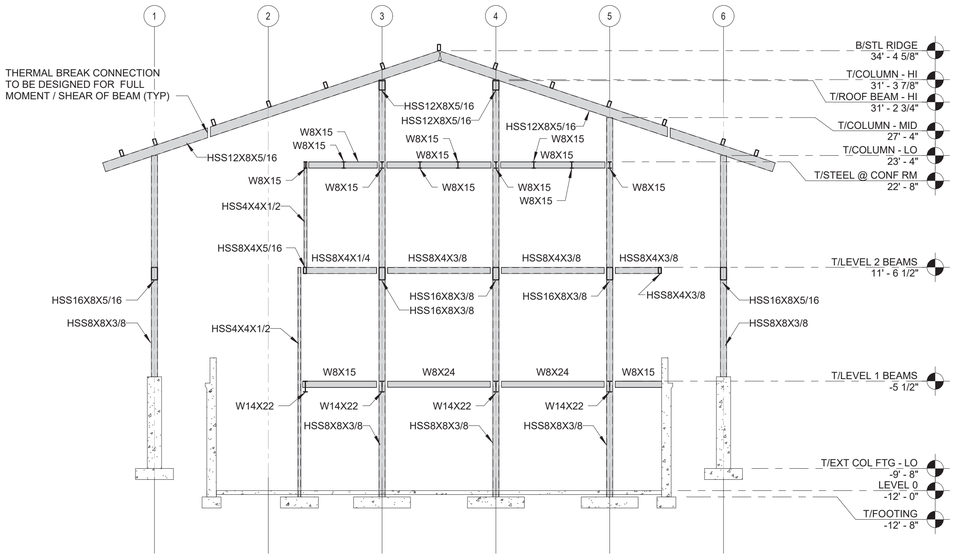
FRAMING ELEVATIONS

SHEET NO.
S3.2



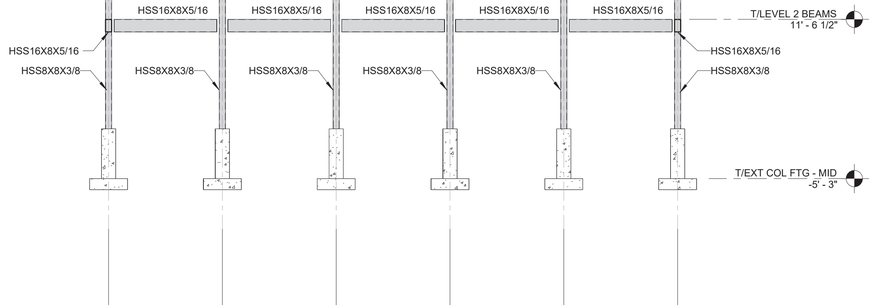
1 FRAMING ELEVATION - GRID LINE I

1/8" = 1'-0"



2 FRAMING ELEVATION - GRID LINE J

1/8" = 1'-0"



3 FRAMING ELEVATION - GRID LINE K

1/8" = 1'-0"

REVISIONS

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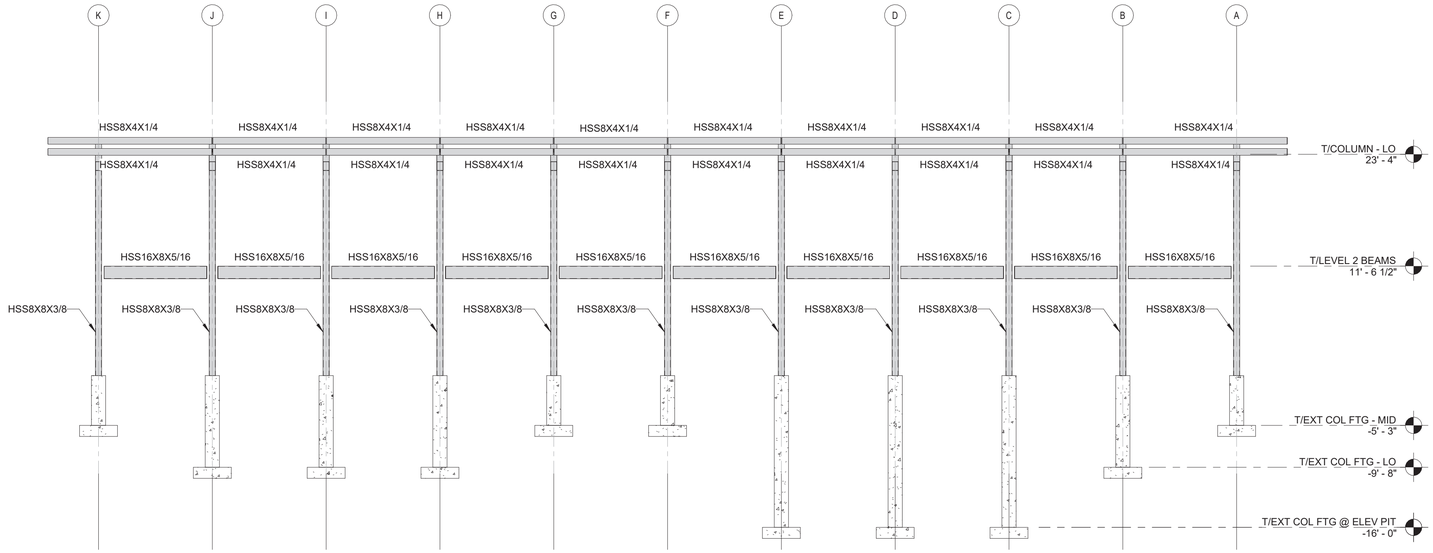
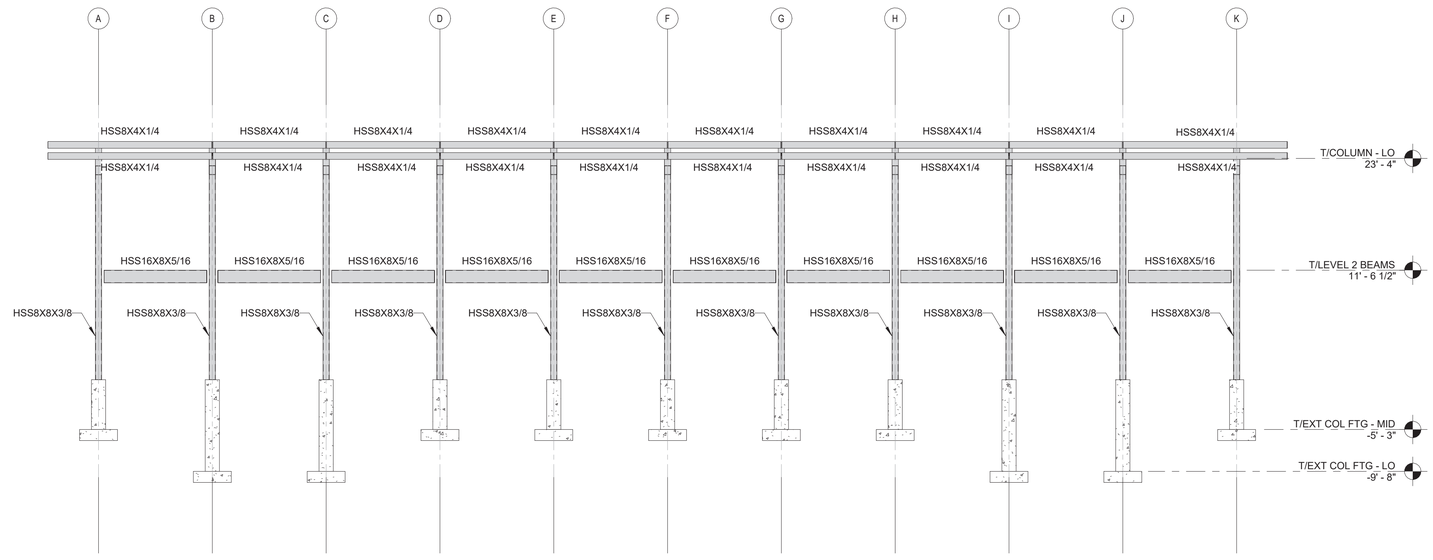
FRAMING ELEVATIONS

SHEET NO. **S3.3**



1 FRAMING ELEVATION - GRID LINE 1

1/8" = 1'-0"



2 FRAMING ELEVATION - GRID LINE 6

1/8" = 1'-0"

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DRAWN BY:	KABIL	SCALE:	1/8" = 1'-0"
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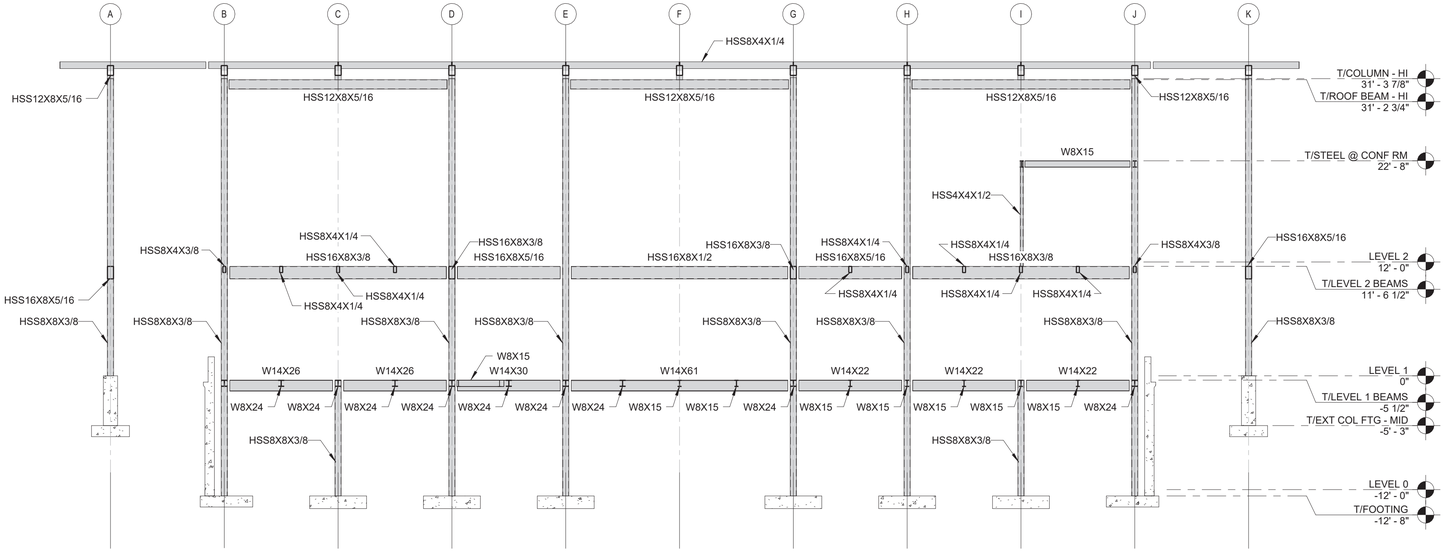
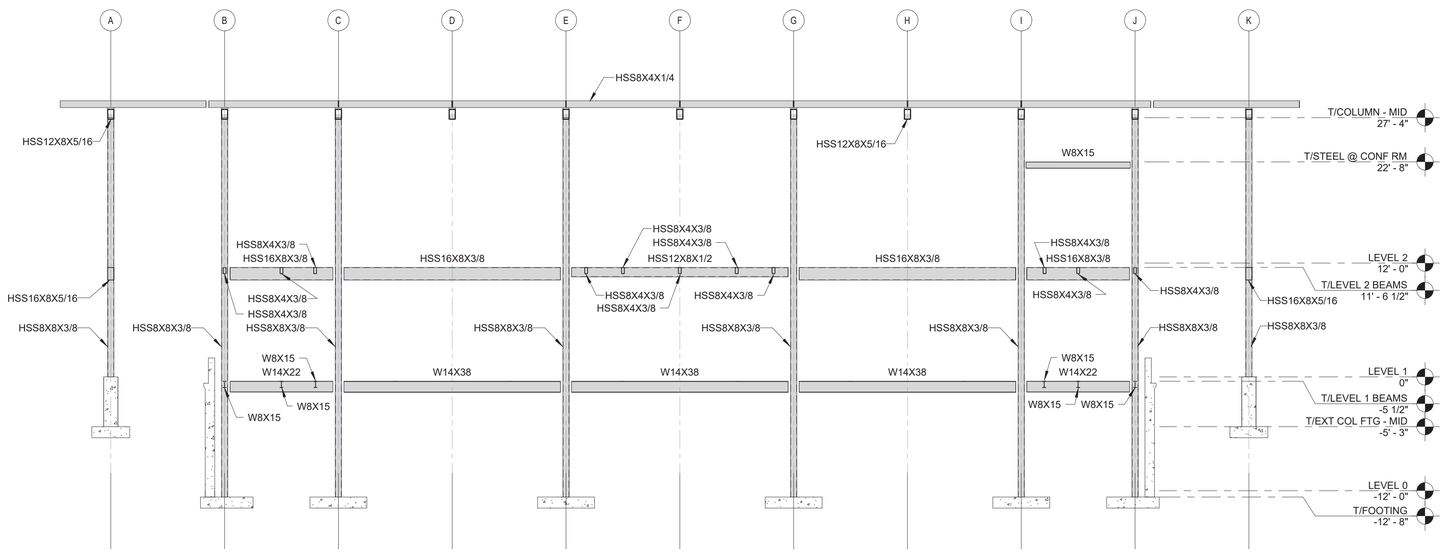
FRAMING ELEVATIONS

SHEET NO.
S3.4



1 **FRAMING ELEVATION - GRID LINE 3**

1/8" = 1'-0"



2 **FRAMING ELEVATION - GRID LINE 5**

1/8" = 1'-0"

REVISIONS
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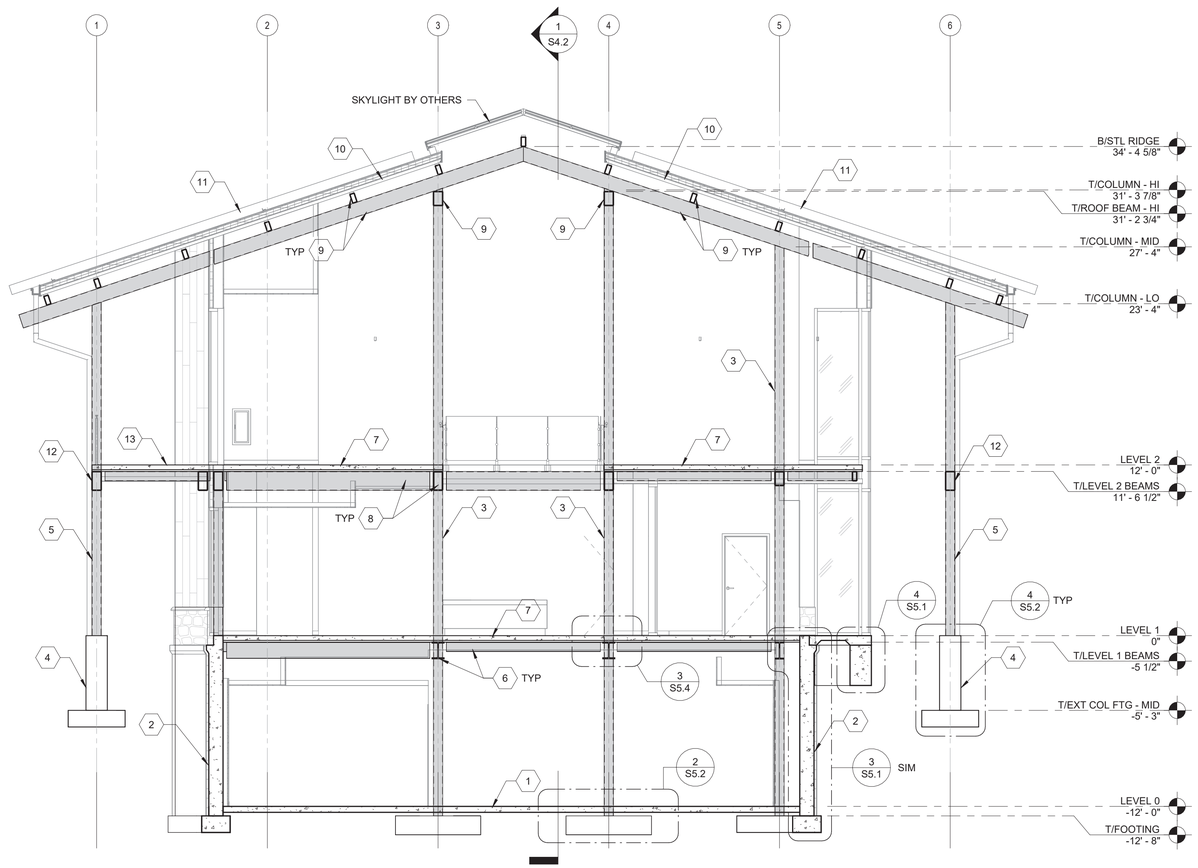
FRAMING ELEVATIONS

SHEET NO. **S3.5**



1 **BUILDING SECTION**
3/16" = 1'-0"

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. INTERIOR HSS COLUMN ON REINF CONC FOOTING - SEE PLAN
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. EXTERIOR HSS COLUMN - SEE SCHEDULE
6. W BEAM - SEE PLAN
7. METAL DECK W/ CONC - SEE PLAN
8. HSS BEAM - SEE PLAN
9. ROOF BEAM - SEE PLAN
10. WOOD TNG PLANKS AND PLYWOOD OVERLAY - SEE PLAN
11. DECORATIVE ROOF FRAMING
12. HSS 16 x 8 PERIMETER BEAM
13. BALCONY - SLOPE PER PLAN

REVISIONS
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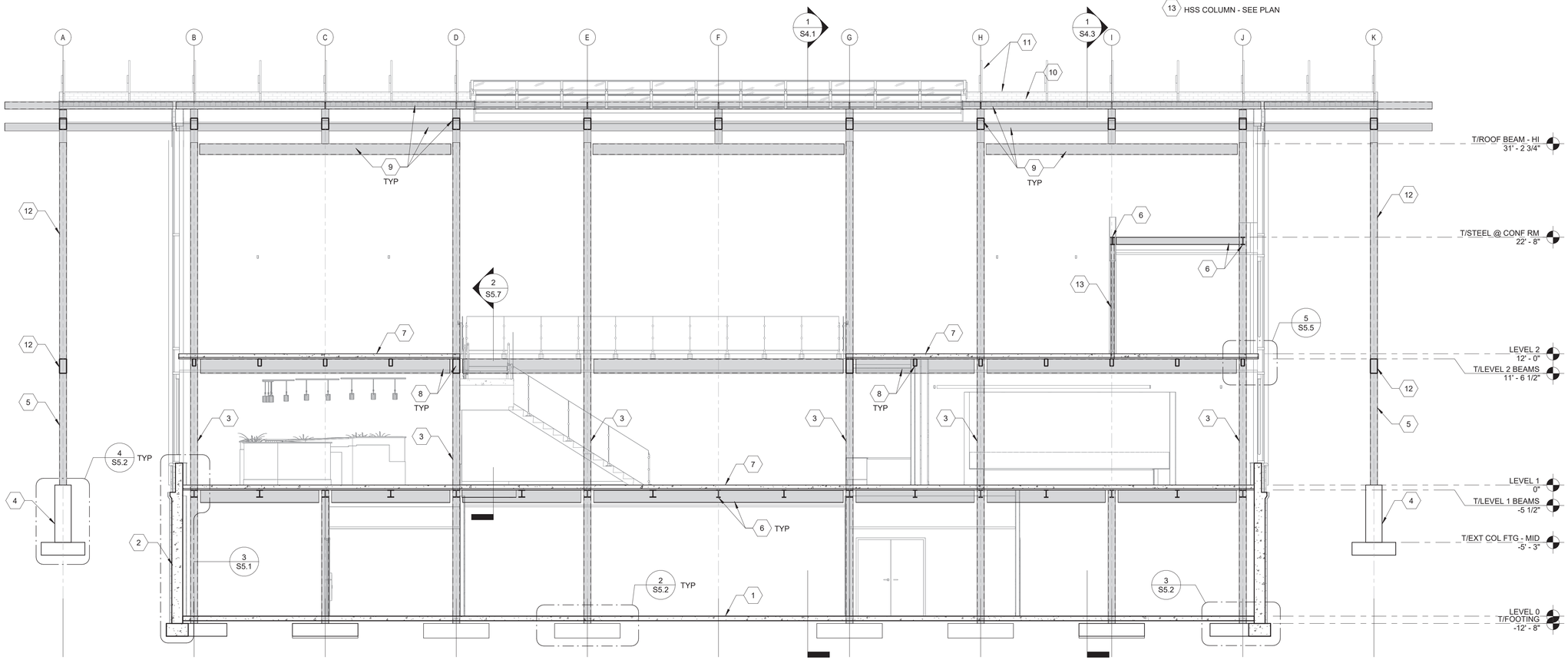
STRUCTURAL SECTIONS

SHEET NO. **S4.1**

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. INTERIOR HSS COLUMN ON REINF CONC FOOTING - SEE PLAN
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. EXTERIOR HSS COLUMN - SEE SCHEDULE
6. W BEAM - SEE PLAN
7. METAL DECK W/ CONC - SEE PLAN
8. HSS BEAM - SEE PLAN
9. ROOF BEAM - SEE PLAN
10. WOOD TNG PLANKS AND PLYWOOD OVERLAY - SEE PLAN
11. DECORATIVE ROOF FRAMING
12. HSS 16 x 8 PERIMETER BEAM
13. HSS COLUMN - SEE PLAN



1 BUILDING SECTION
3/16" = 1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

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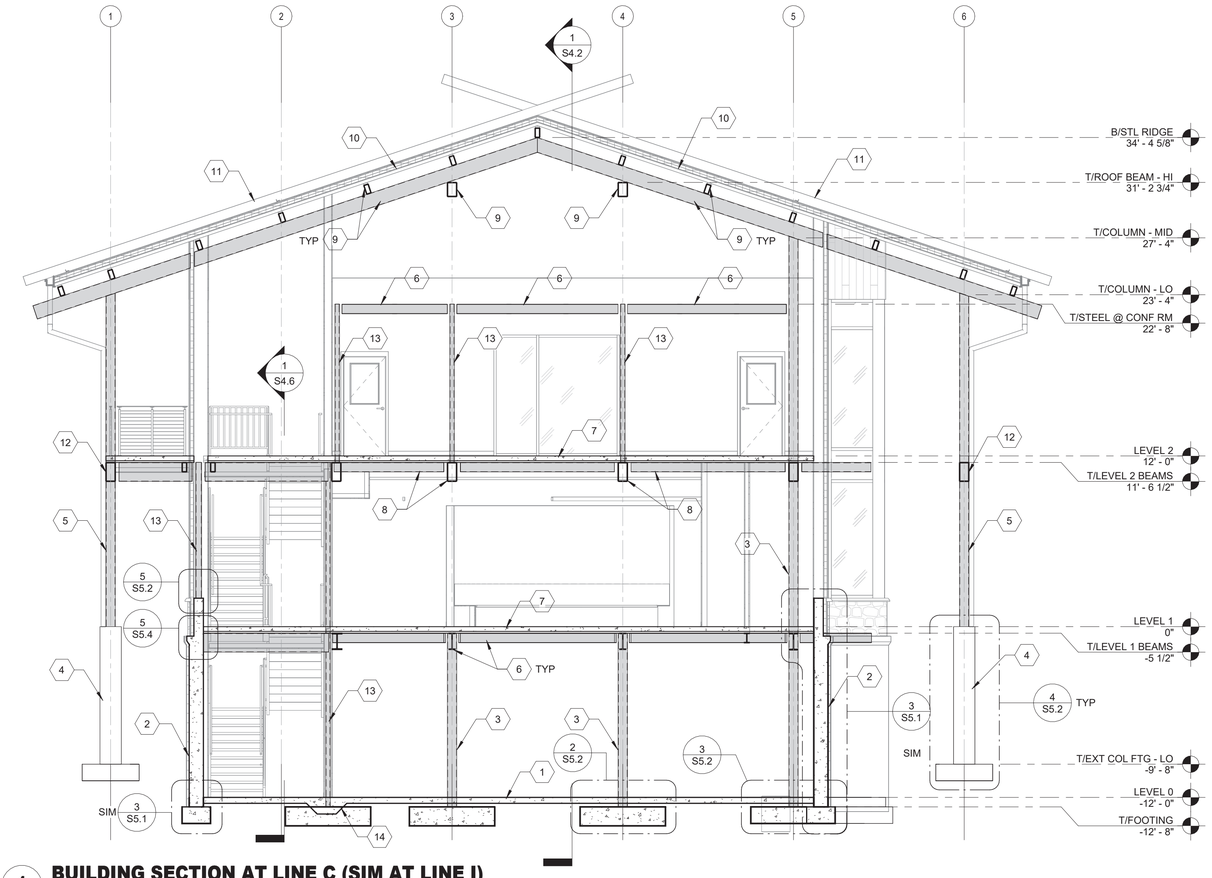
STRUCTURAL SECTIONS

SHEET NO.
S4.2



1 **BUILDING SECTION AT LINE C (SIM AT LINE I)**
3/16" = 1'-0"

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. INTERIOR HSS COLUMN ON REINF CONC FOOTING - SEE PLAN
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. EXTERIOR HSS COLUMN - SEE SCHEDULE
6. W BEAM - SEE PLAN
7. METAL DECK W/ CONC - SEE PLAN
8. HSS BEAM - SEE PLAN
9. ROOF BEAM - SEE PLAN
10. WOOD TNG PLANKS AND PLYWOOD OVERLAY - SEE PLAN
11. DECORATIVE ROOF FRAMING
12. HSS 16 x 8 PERIMETER BEAM
13. HSS COLUMN - SEE PLAN
14. THICKENED SLAB - SEE PLAN

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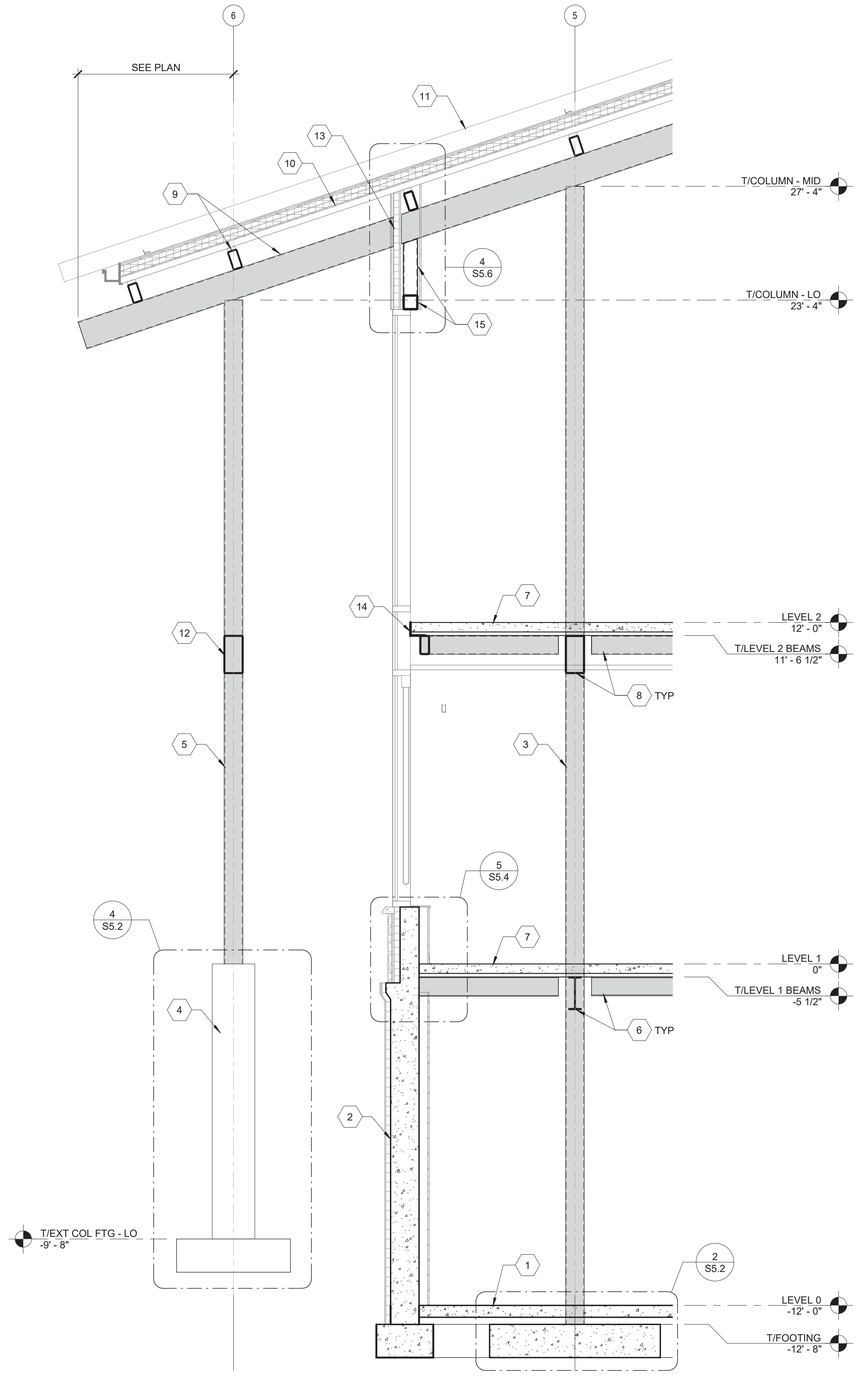
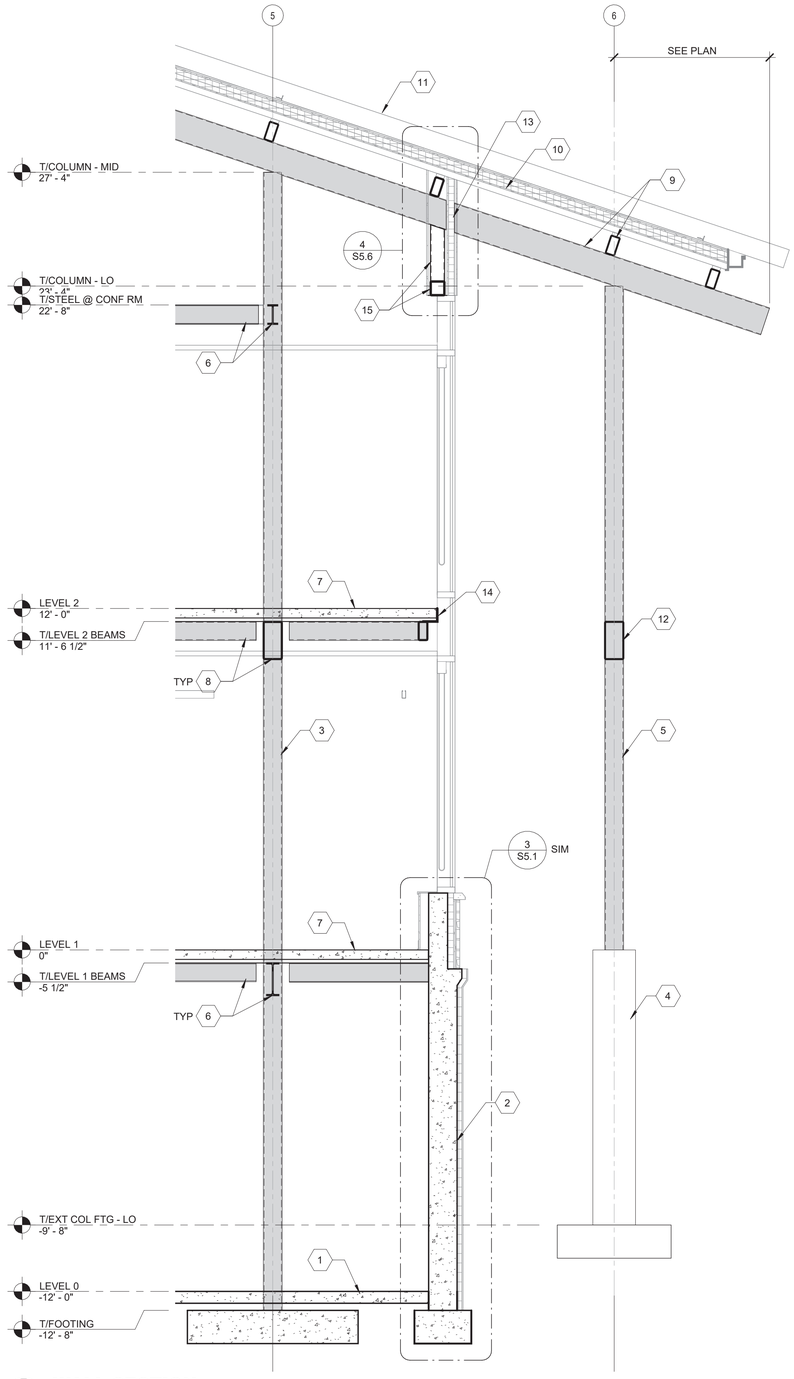
STRUCTURAL SECTIONS

SHEET NO. **S4.3**



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



2 WALL SECTION
3/8" = 1'-0"

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. INTERIOR HSS COLUMN ON REINF CONC FOOTING - SEE PLAN
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. EXTERIOR HSS COLUMN - SEE SCHEDULE
6. W BEAM - SEE PLAN
7. METAL DECK W/ CONC - SEE PLAN
8. HSS BEAM - SEE PLAN
9. ROOF BEAM - SEE PLAN
10. WOOD TNG PLANKS AND PLYWOOD OVERLAY - SEE PLAN
11. DECORATIVE ROOF FRAMING
12. HSS 16 x 8 PERIMETER BEAM
13. THERMAL BREAK: STEEL FABRICATOR TO PROVIDE BOLTED CONNECTION W/ A THERMAL BREAK PAD BTW EXTERIOR/INTERIOR STEEL - CONNECTION TO TRANSFER FULL MOMENT AND SHEAR OF BEAM
14. CONNECTION OF CURTAIN WALL BY SUPPLIER
15. HSS 6x6 AT TOP OF CURTAIN WALL W/ HSS 6x6 HANGERS - SEE DETAIL 4/S5.6

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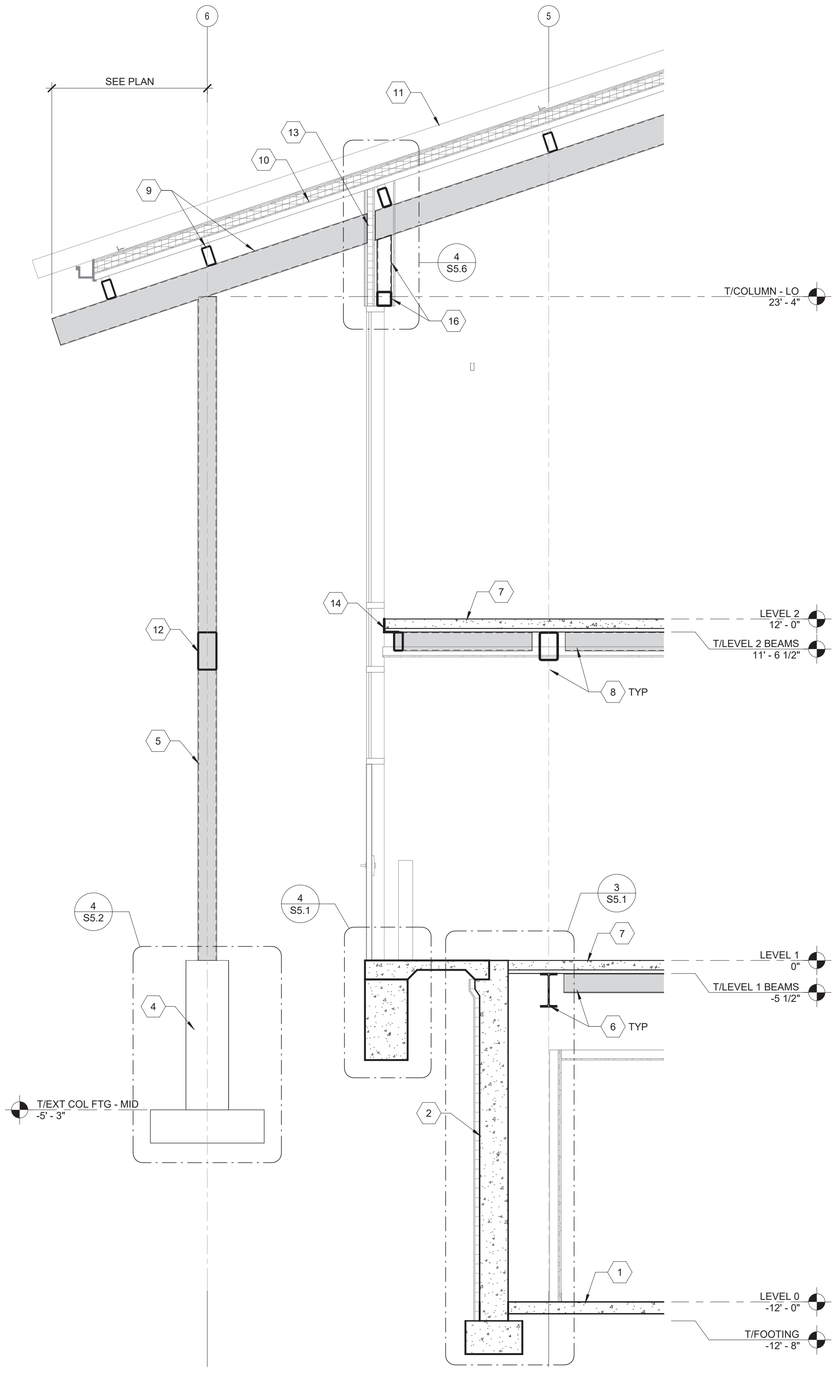
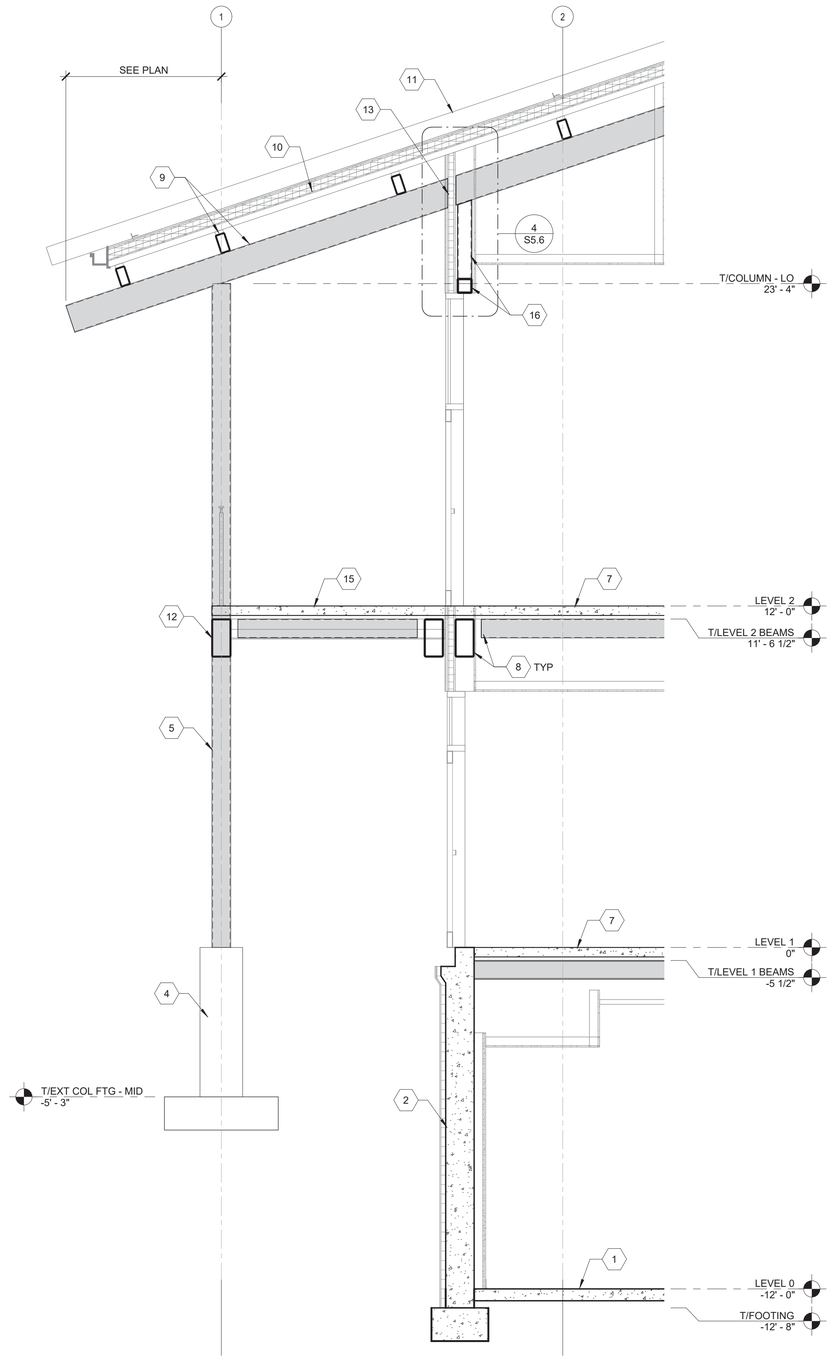
STRUCTURAL SECTIONS

SHEET NO.
S4.4



1 WALL SECTION

3/8" = 1'-0"



2 WALL SECTION

3/8" = 1'-0"

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. NOT USED
4. REINF CONC PIER ON REINF CONC FOOTING - SEE SCHEDULES
5. EXTERIOR HSS COLUMN - SEE SCHEDULE
6. W BEAM - SEE PLAN
7. METAL DECK W/ CONC - SEE PLAN
8. HSS BEAM - SEE PLAN
9. ROOF BEAM - SEE PLAN
10. WOOD TNG PLANKS AND PLYWOOD OVERLAY- SEE PLAN
11. DECORATIVE ROOF FRAMING
12. HSS 16 x 8 PERIMETER BEAM
13. THERMAL BREAK: STEEL FABRICATOR TO PROVIDE BOLTED CONNECTION W/ A THERMAL BREAK PAD BTW EXTERIOR/INTERIOR STEEL - CONNECTION TO TRANSFER FULL MOMENT AND SHEAR OF BEAM
14. CONNECTION OF CURTAIN WALL BY SUPPLIER
15. BALCONY FLOOR - SLOPE PER PLAN
16. HSS 6x6 AT TOP OF CURTAIN WALL W/ HSS 6x6 HANGERS - SEE DETAIL 4/S5.6

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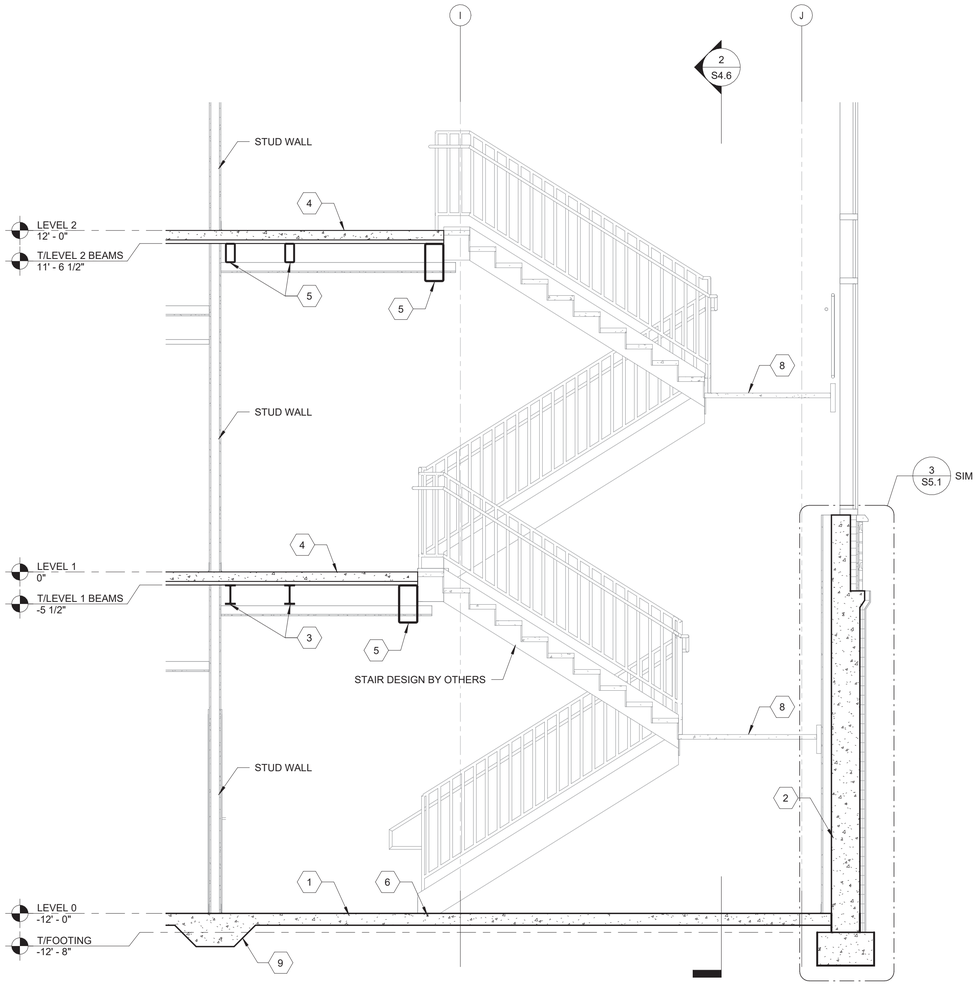
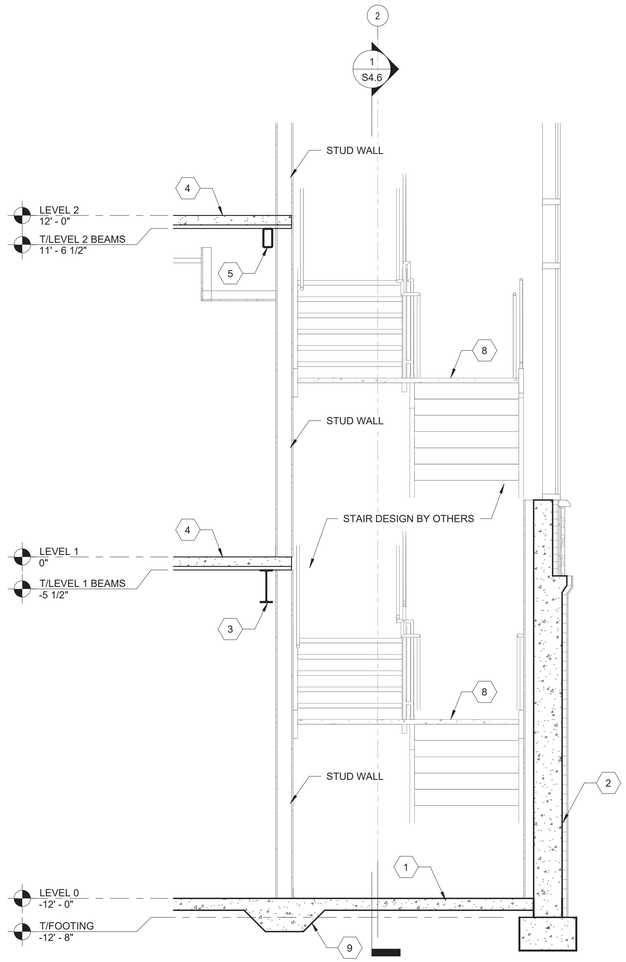
STRUCTURAL SECTIONS

SHEET NO.
S4.5



1 SECTION AT NORTH STAIRWELL

3/8" = 1'-0"



2 SECTION AT NORTH STAIRWELL

3/8" = 1'-0"

CODED NOTES:

1. CONC SLAB ON GRADE W/ WWF - SEE PLAN
2. REINF CONC WALL ON REINF CONC FOOTING - SEE PLAN
3. W BEAM - SEE PLAN
4. METAL DECK W/ CONC - SEE PLAN
5. HSS BEAM - SEE PLAN
6. BOLT STRINGER TO SLAB PER SUPPLIER RECOMMENDATIONS
7. NOT USED
8. INTERMEDIATE LANDING BY SUPPLIER
9. THICKENED SLAB - SEE PLAN

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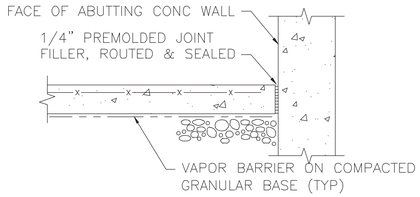
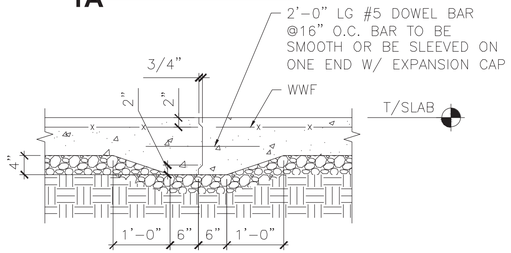
STRUCTURAL SECTIONS

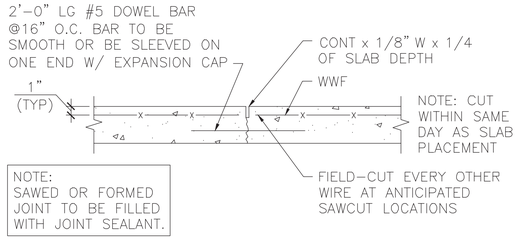
SHEET NO. **S4.6**



1A ISOLATION JOINT

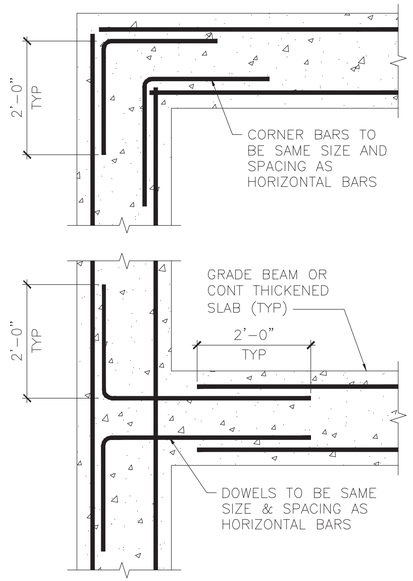


1B CONSTRUCTION JOINT

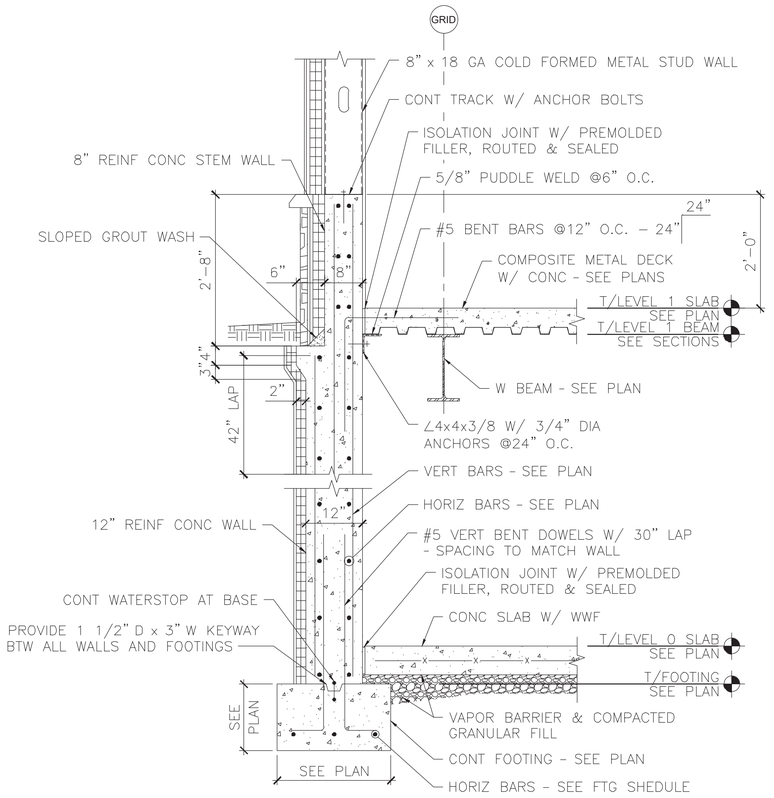


1C SAWCUT JOINT

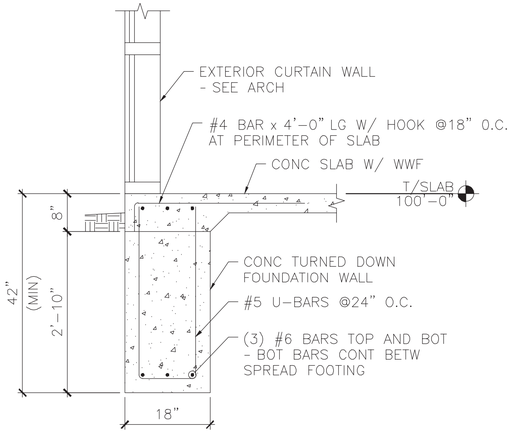
1 SLAB DETAILS
SCALE: N.T.S.



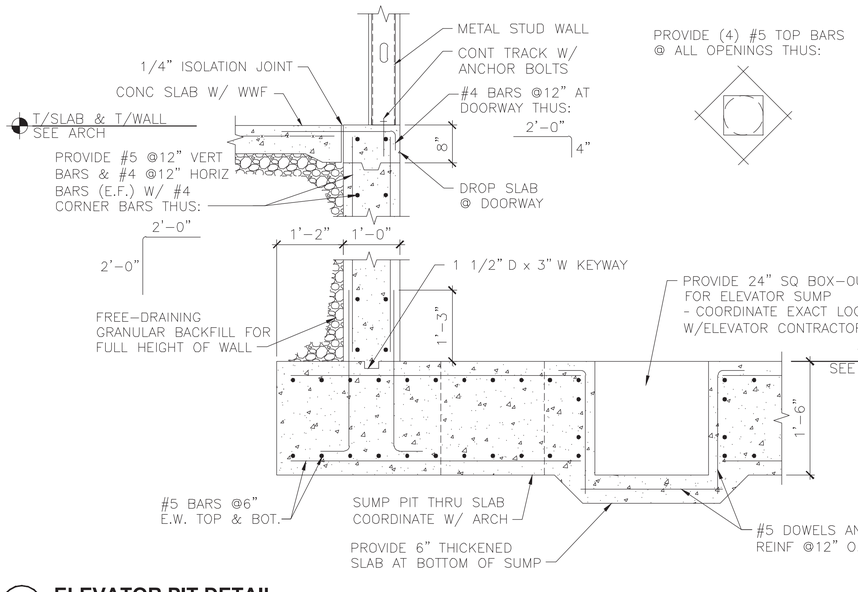
2 FOOTING CORNER REBAR
SCALE: N.T.S.



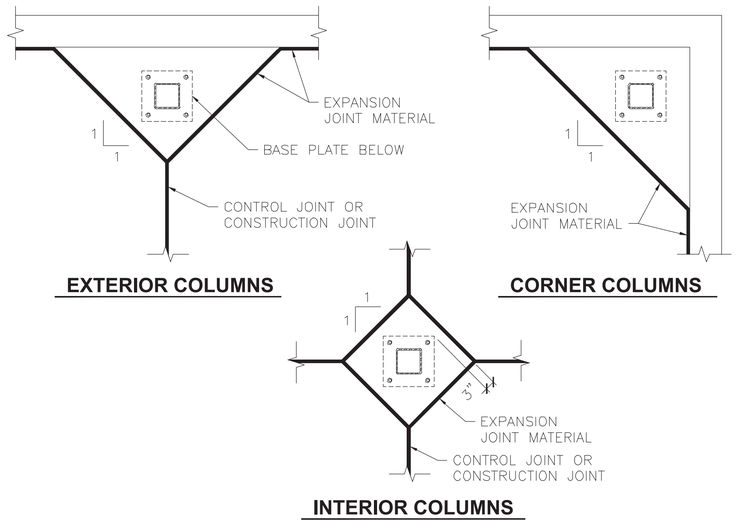
3 SECTION AT EXTERIOR WALL
SCALE: 3/4"=1'-0"



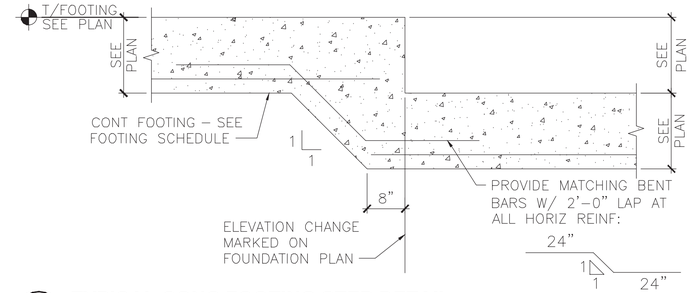
4 TURNED DOWN FOUNDATION WALL / SLAB
SCALE: 3/4"=1'-0"



5 ELEVATOR PIT DETAIL
SCALE: N.T.S.



6 TYPICAL ISOLATION JOINTS
SCALE: 1/2"=1'-0"



7 TYPICAL CONC FOOTING STEP DETAIL
SCALE: N.T.S.

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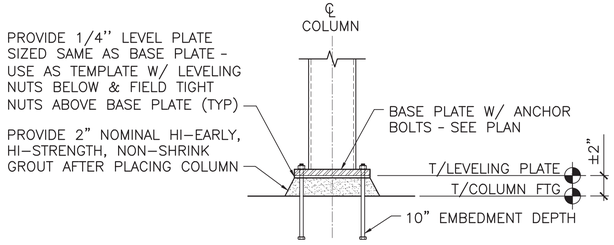
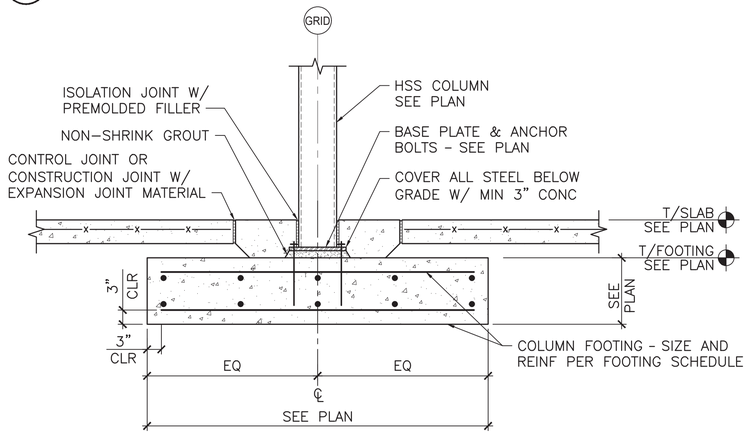
DRAWN BY:	KABIL	SCALE:	AS NOTED
CHECKED BY:	SPS	PERMIT DATE:	02.25.2022
APPROVED BY:	SPS	DRAWING DATE:	06.16.2022

STRUCTURAL DETAILS

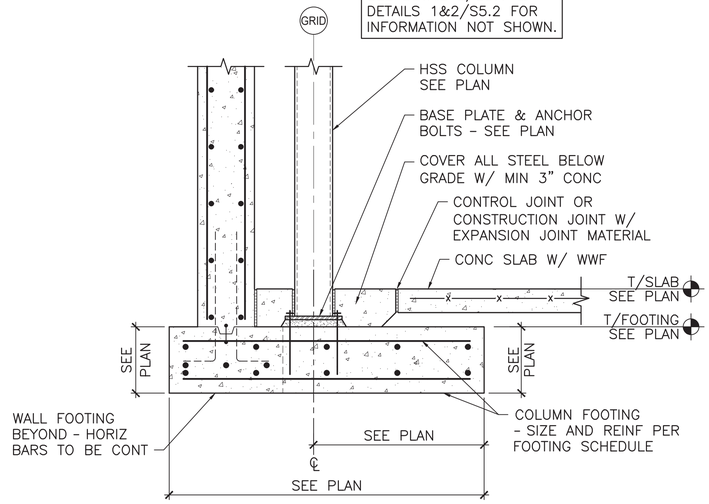
SHEET NO. **S5.1**



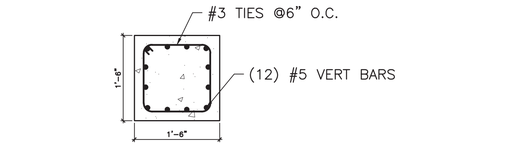
1 TYP COLUMN BASE PLATE & ANCHOR BOLTS
SCALE: N.T.S.



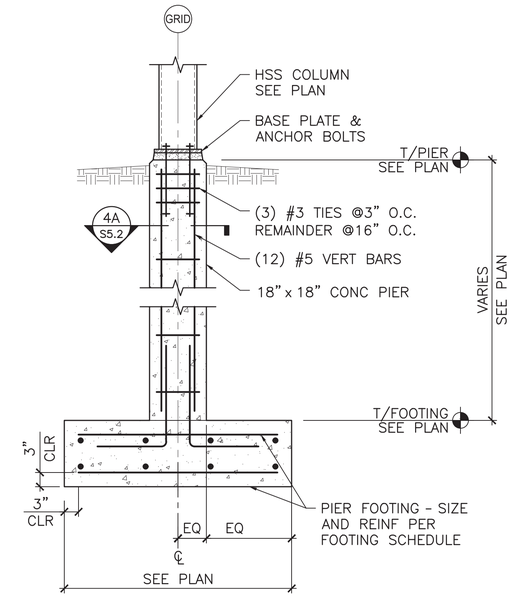
2 TYPICAL INTERIOR COLUMN FOOTING
SCALE: 3/4"=1'-0"



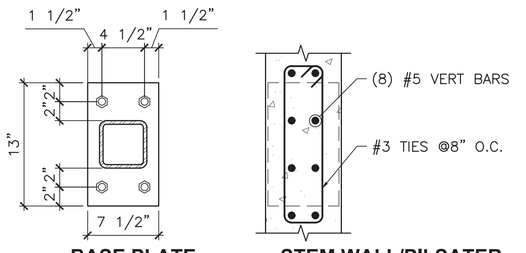
3 TYPICAL COLUMN FOOTING AT EXTERIOR WALL
SCALE: 3/4"=1'-0"



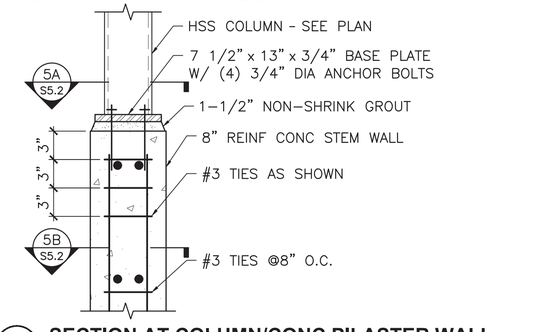
4A PLAN-SECTION (P1)



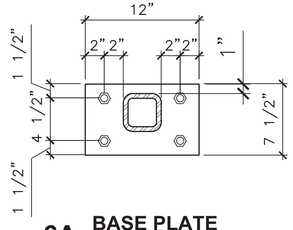
4 TYPICAL EXTERIOR PIER FOOTING / COLUMN
SCALE: 3/4"=1'-0"



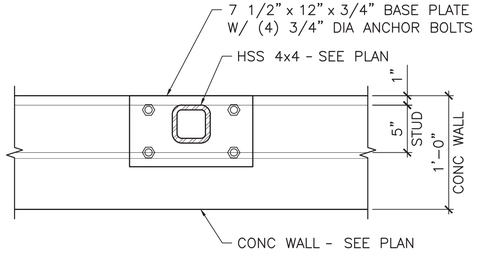
5A BASE PLATE
5B STEM WALL/PILSATER



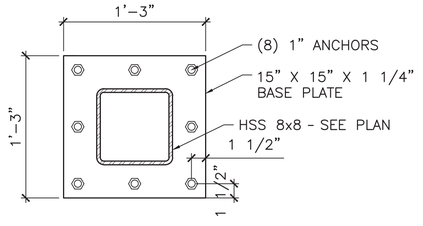
5 SECTION AT COLUMN/CONC PILASTER WALL
SCALE: 1 1/2"=1'-0"



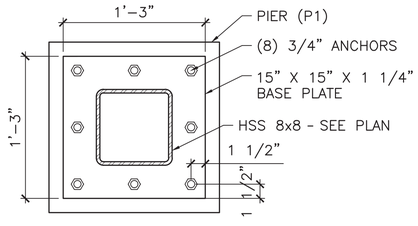
6A BASE PLATE



6 PLAN SECTION AT COLUMN/CONC WALL
SCALE: 1 1/2"=1'-0"



7 BASE PLATE B1
SCALE: 1 1/2"=1'-0"



8 BASE PLATE B2 ON PIER P1
SCALE: 1 1/2"=1'-0"

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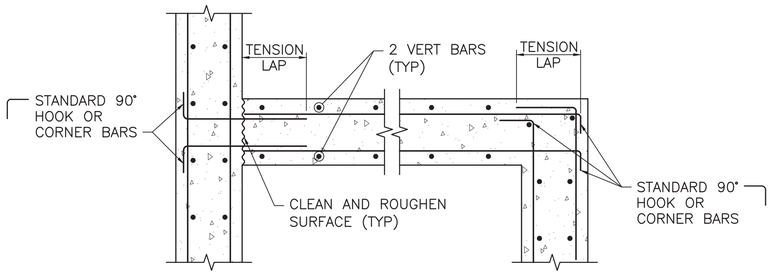
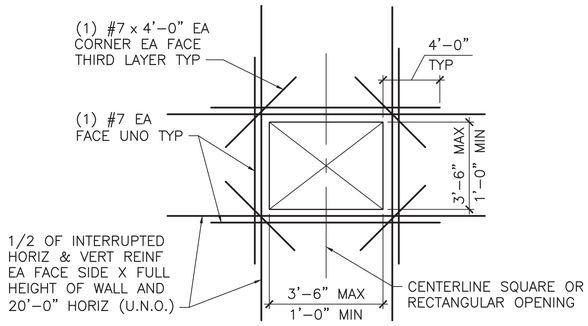
STRUCTURAL DETAILS

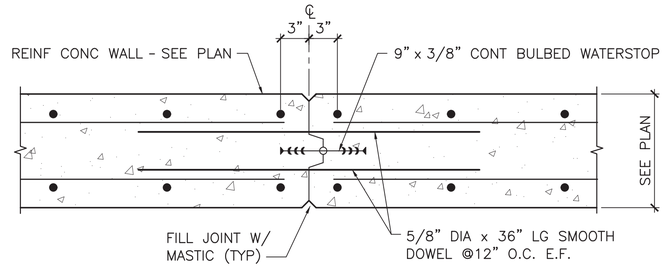
SHEET NO. **S5.2**



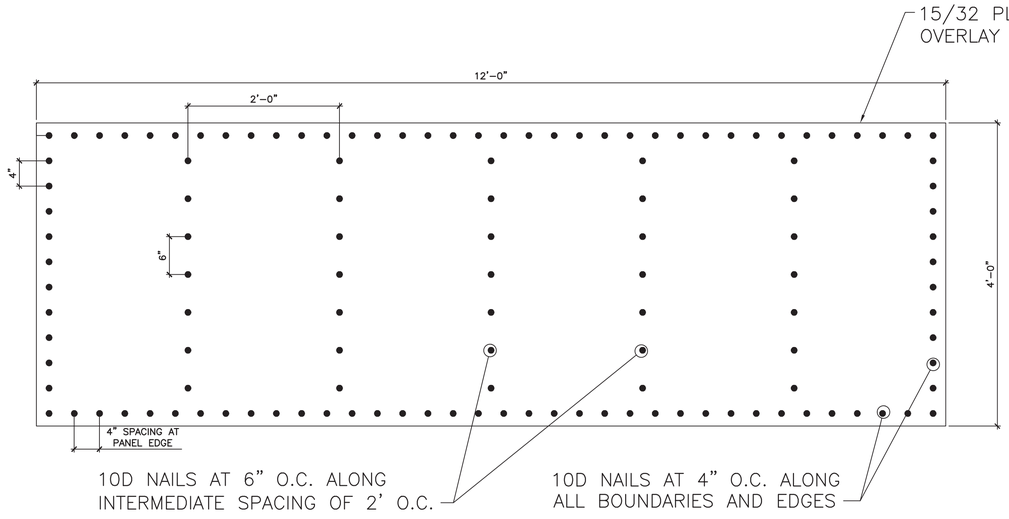
1 REINFORCING AT CORNERS OF WALLS
SCALE: N.T.S.



2 OPENING IN NEW CONCRETE WALL
SCALE: N.T.S.



3 TYP WALL CONTRACTION JOINT
SCALE: N.T.S.



4 PLYWOOD OVERLAY
SCALE: 1"=1'-0"

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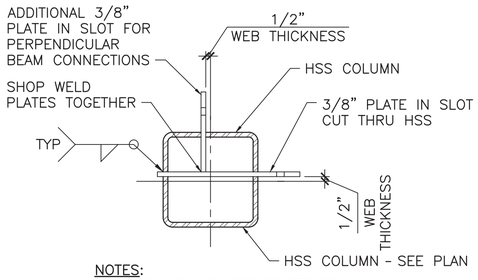
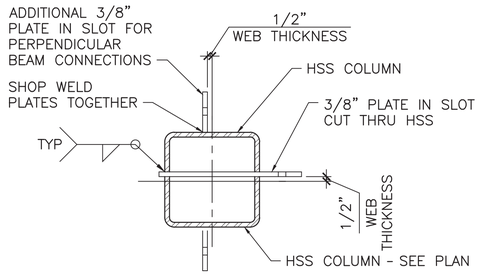
STRUCTURAL DETAILS

SHEET NO. **S5.3**

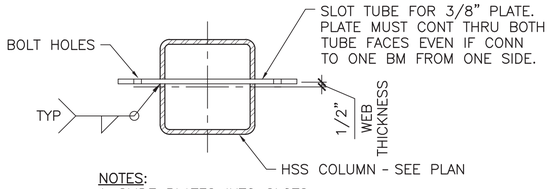


NOTES:
1. SHOP WELD PLATES TOGETHER.
2. SLIDE PLATES INTO SLOTS.
3. WELD PLATES TO TUBE.
4. WELD SLOTS CLOSED ABOVE PLATES.



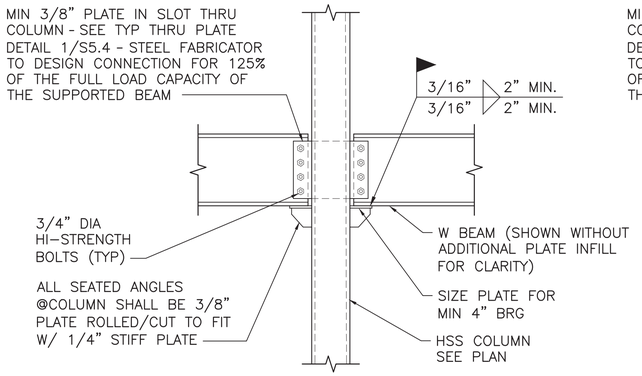
AT INTERMEDIATE FLOORS

NOTE:
USE SLOTTED PLATE AT LARGER/HEAVIER LOADED BEAM.

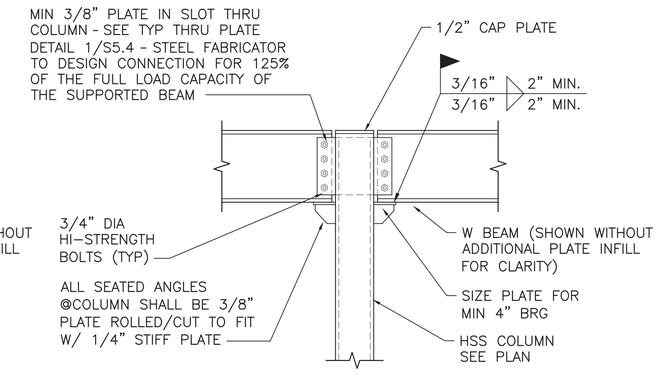


NOTES:
1. SLIDE PLATES INTO SLOTS.
2. WELD PLATES TO TUBE.
3. WELD SLOTS CLOSED ABOVE PLATES.

1 TYP THRU PLATE BEAM/COLUMN CONNECTIONS
SCALE: N.T.S.

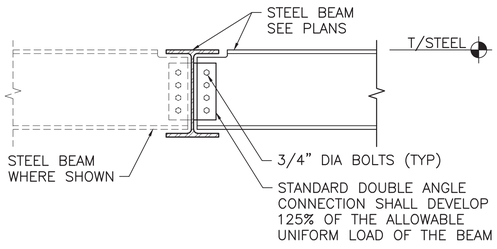


2A INTERMEDIATE OF COLUMN

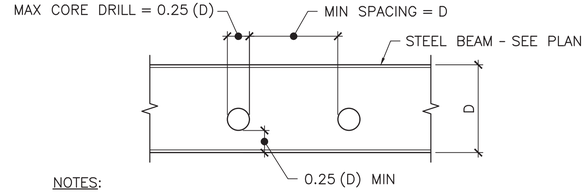


2B TOP OF COLUMN

2 TYPICAL BEAM / HSS COLUMN CONNECTION
SCALE: N.T.S.

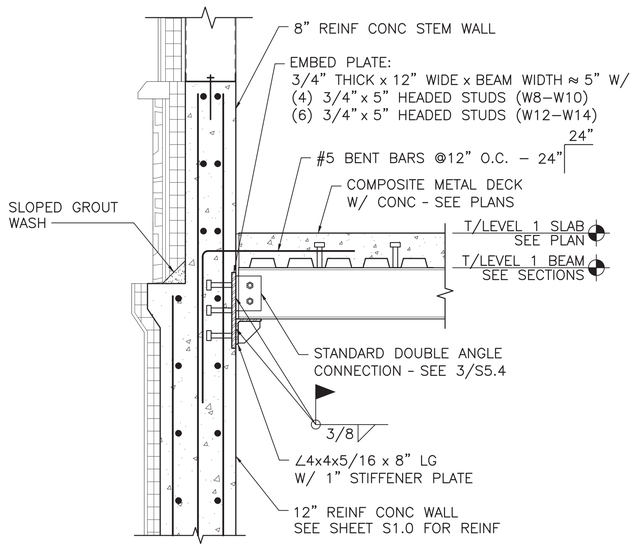


3 TYPICAL BEAM CONNECTION
SCALE: N.T.S.

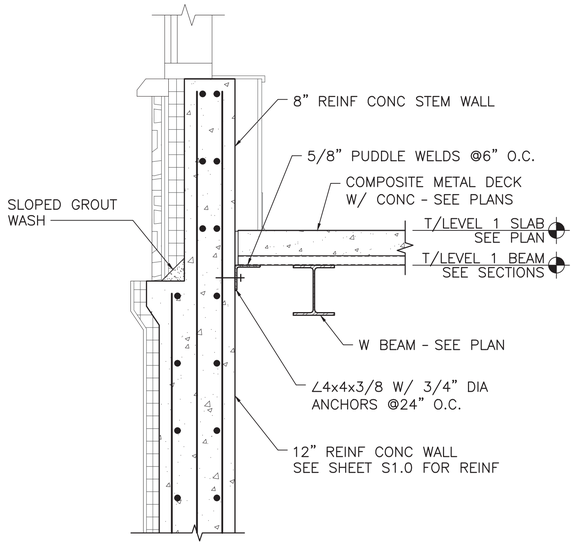


NOTES:
1. IF OPENINGS IN BEAM ARE LARGER THAN SHOWN, CONTACT THE STRUCTURAL ENGINEER FOR PROPER STIFFENING REQUIREMENTS.
2. DO NOT LOCATE HOLES WITHIN 2(D) OF BEAM ENDS/SUPPORTS.
3. LOCATE HOLES NEAR CENTER OF BEAM DEPTH.

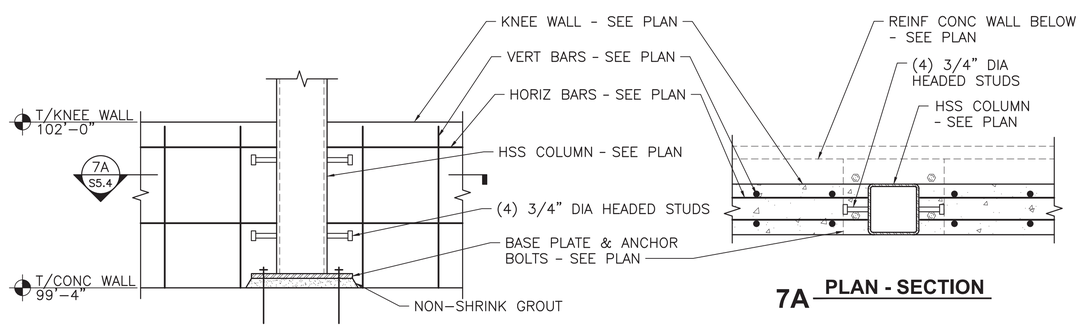
4 CORE DRILLS IN STEEL BEAM
SCALE: 1"=1'-0"



5 SECTION AT BEAM/CONC WALL
SCALE: 1"=1'-0"



6 SECTION AT BEAM/CONC WALL
SCALE: 1"=1'-0"



7A PLAN - SECTION

7 HSS COLUMN IN KNEE WALL
SCALE: 1"=1'-0"

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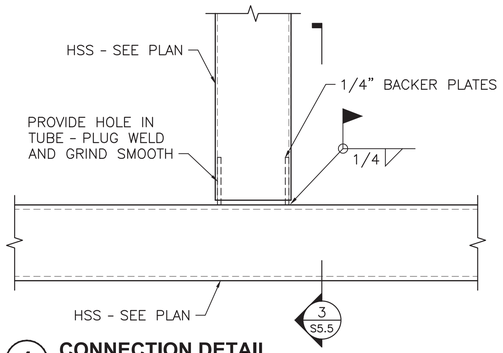
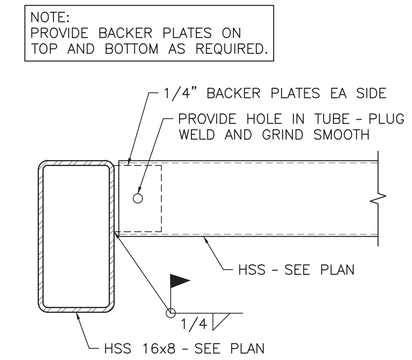
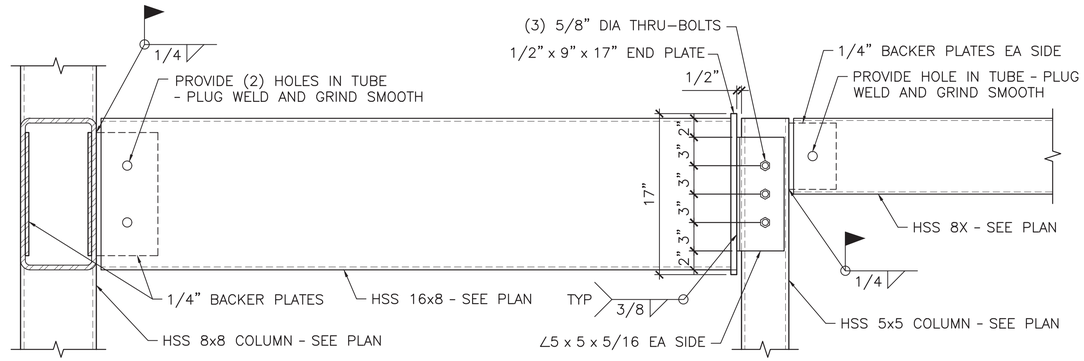
SHEET NO. **S5.4**



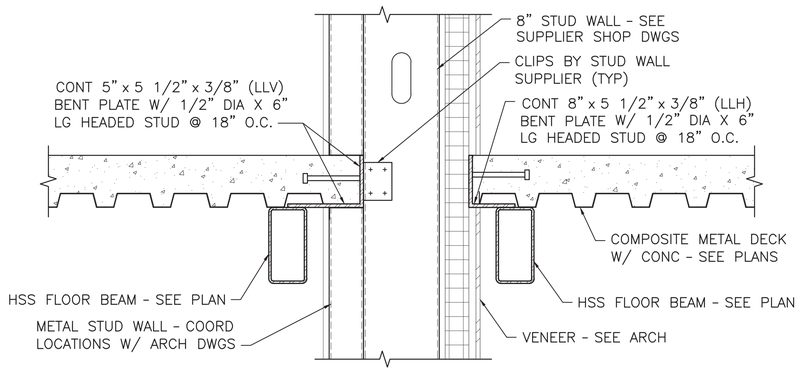
1 CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



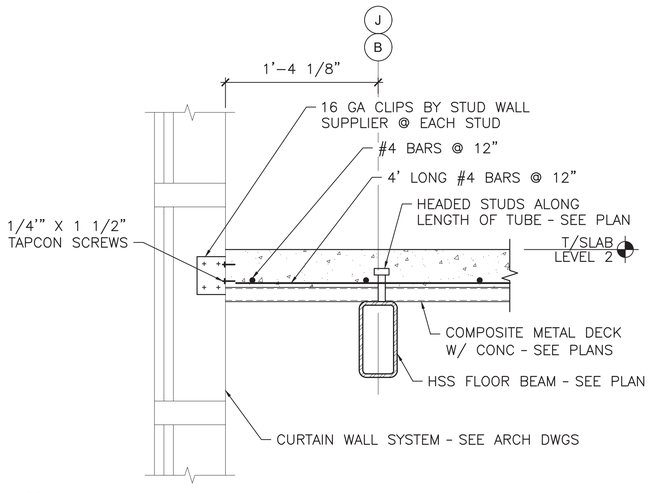
2 CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



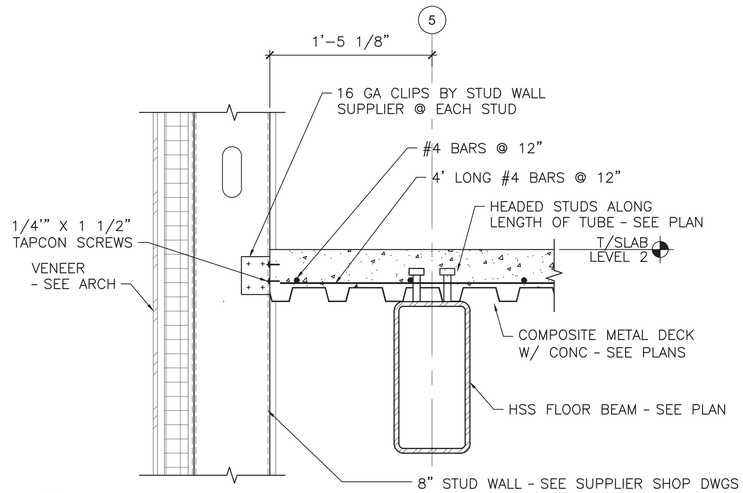
3 CONNECTION DETAIL
SCALE: 1 1/2"=1'-0"



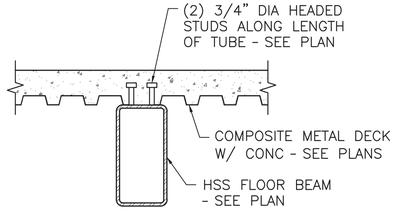
4 BEAMS/CONC DECK AT EXTERIOR STUD WALL
SCALE: 1 1/2"=1'-0"



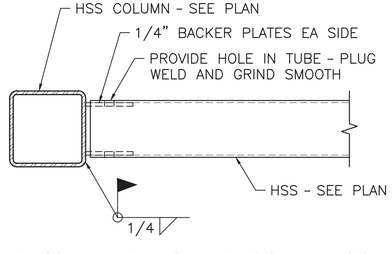
5 BEAM/CONC DECK AT EXTERIOR CURTAIN WALL
SCALE: 1 1/2"=1'-0"



6 BEAM/CONC DECK AT EXTERIOR STUD WALL
SCALE: 1 1/2"=1'-0"



7 HEADED STUDS ALONG BEAM
SCALE: 1"=1'-0"



8 TYPICAL TUBE TO TUBE COLUMN CONNECTION
SCALE: 1 1/2"=1'-0"

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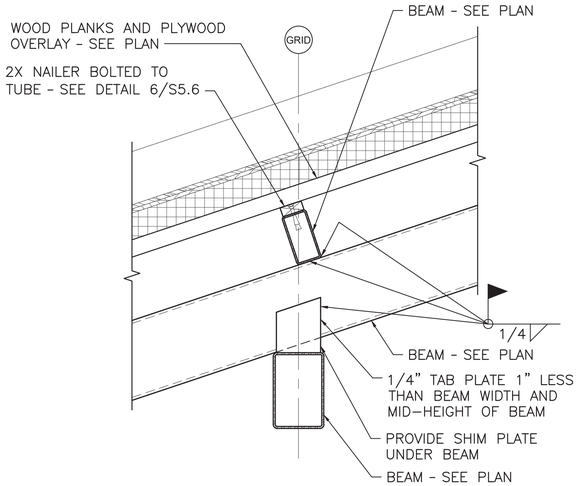
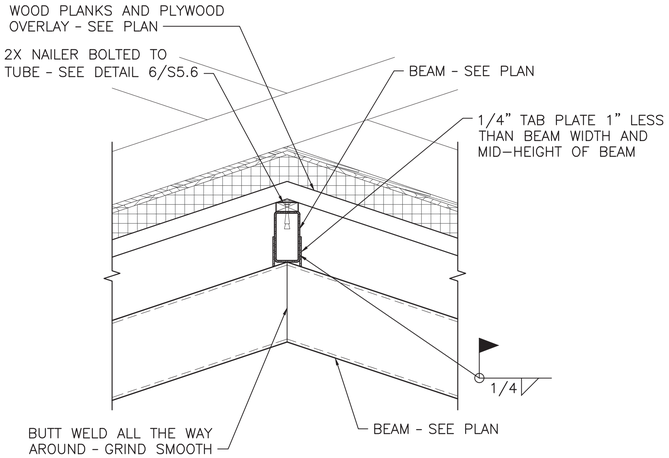
STRUCTURAL DETAILS

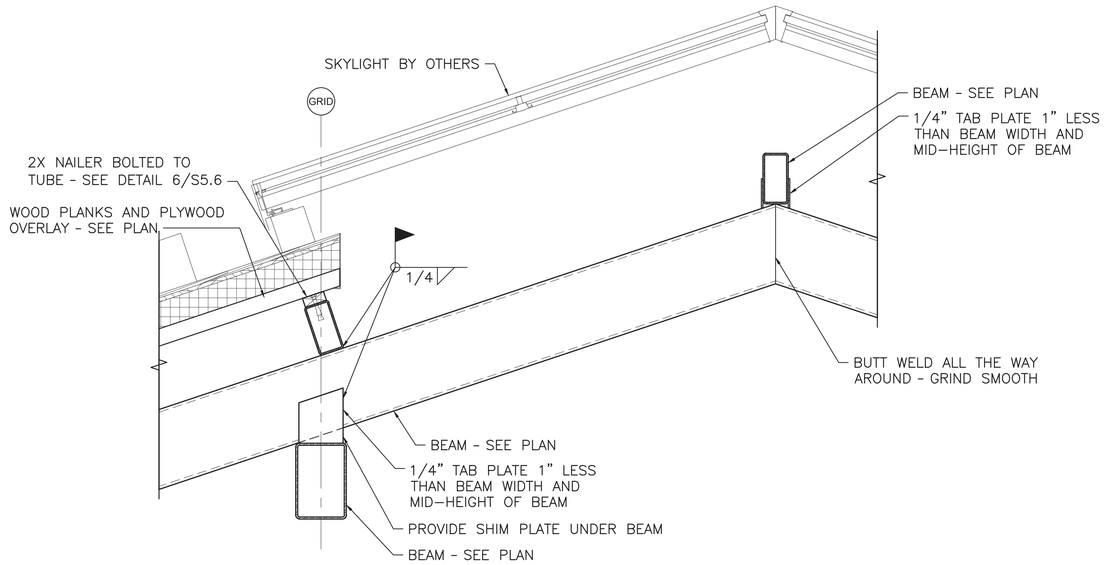
SHEET NO. **S5.5**



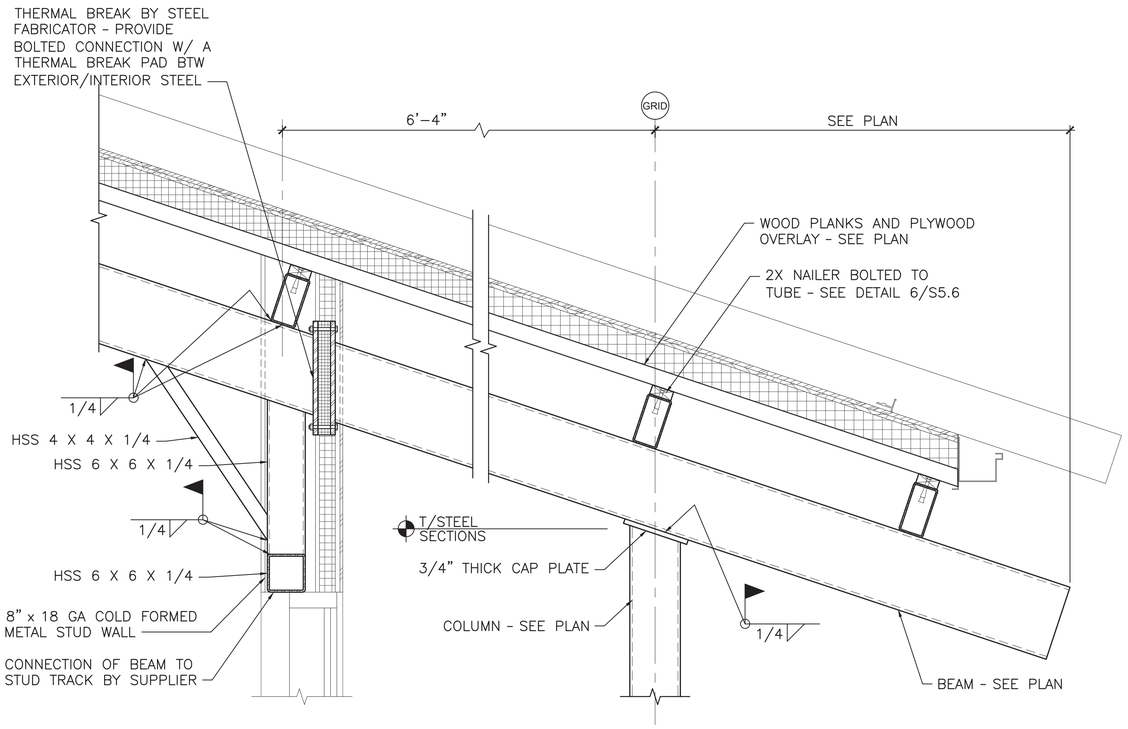
1 SECTION - ROOF STEEL
SCALE: 1"=1'-0"



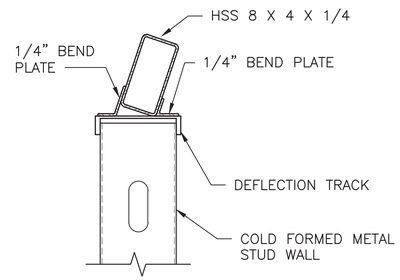
2 SECTION - ROOF STEEL
SCALE: 1"=1'-0"



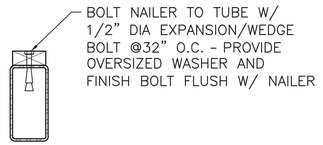
3 SECTION - ROOF STEEL
SCALE: 1"=1'-0"



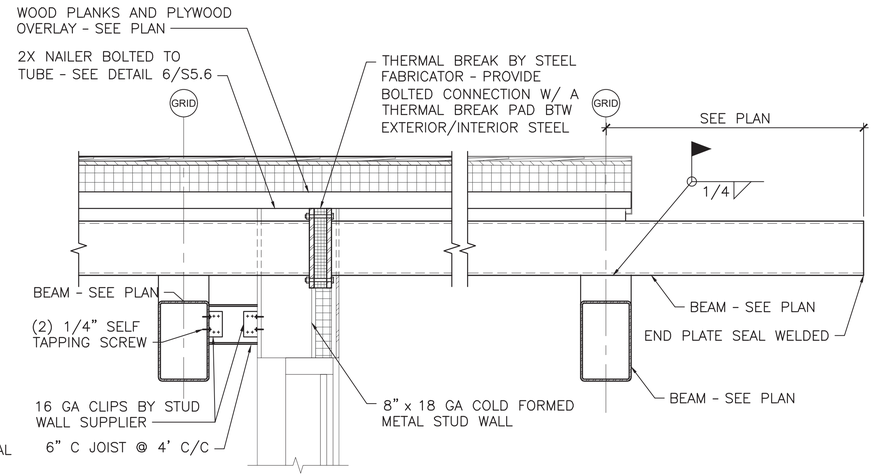
4 SECTION - ROOF STEEL
SCALE: 1"=1'-0"



4A AT METAL STUD
SCALE: 1 1/2"=1'-0"



6 NAILER TO TUBE
SCALE: 1 1/2"=1'-0"



5 SECTION - ROOF STEEL
SCALE: 1"=1'-0"

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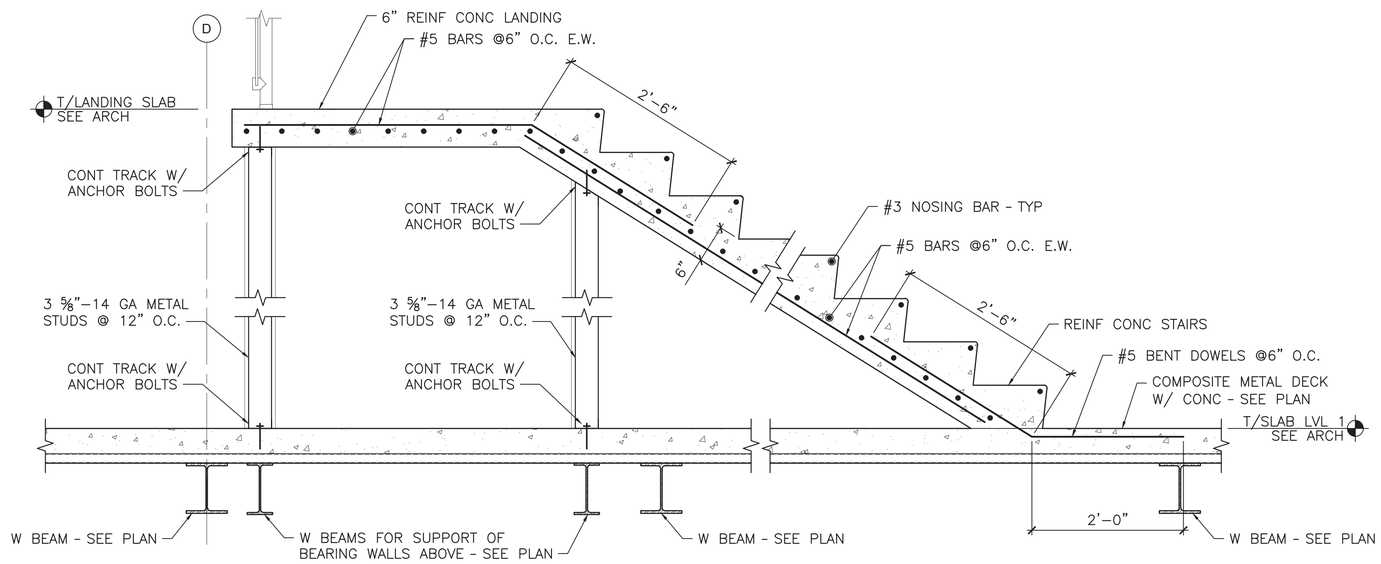
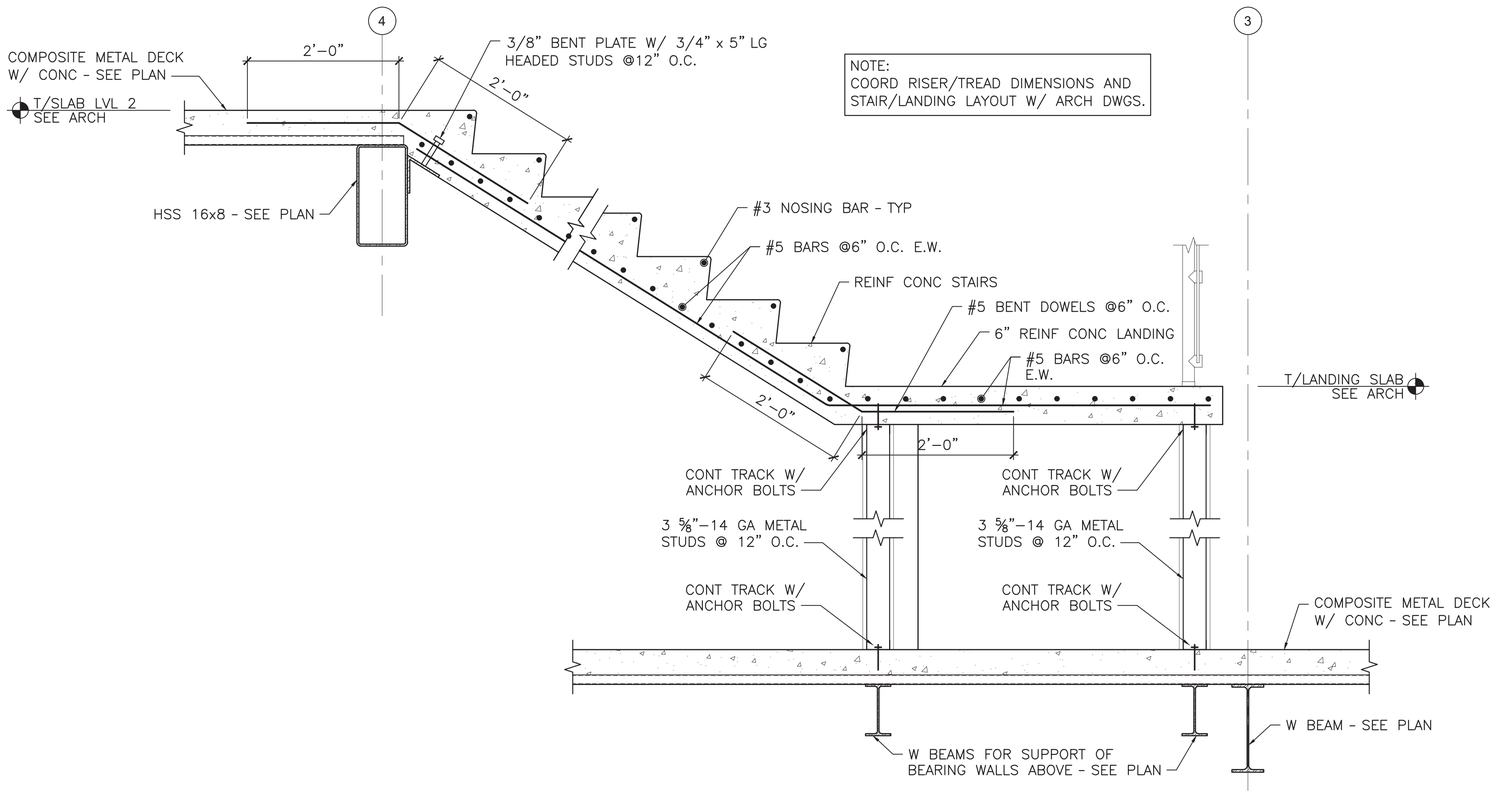
STRUCTURAL DETAILS

SHEET NO. **S5.6**



1 CONC STAIR SECTION

SCALE: 1"=1'-0"



NOTE:
COORD RISER/TREAD DIMENSIONS AND
STAIR/LANDING LAYOUT W/ ARCH DWGS.

2 CONC STAIR SECTION

SCALE: 1"=1'-0"

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
GREENE COUNTY

DESIGNED BY:	JFD	JOB NUMBER:	DNR-210003
DRAWN BY:	KABIL	SCALE:	AS NOTED
CHECKED BY:	SPS	PERMIT DATE:	02.25.2022
APPROVED BY:	SPS	DRAWING DATE:	06.16.2022

STRUCTURAL DETAILS

SHEET NO. **S5.7**

GENERAL NOTES – PLUMBING (APPLY TO ALL PLUMBING DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO PLUMBING CODE, INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
2. FINISHED GROUND FLOOR ELEVATION IS 100.00'. U.N.O. (USGS ELEVATION **838.0**).
3. INVERTS AND LOCATIONS SHOWN FOR PIPING CONNECTIONS TO THE VARIOUS SITE UTILITIES HAVE BEEN COORDINATED WITH THE CIVIL ENGINEER'S DOCUMENTS PRIOR TO BIDDING. CONTRACTOR SHALL VERIFY INVERTS, PIPE SIZES, AND LOCATIONS WITH SITE CONTRACTOR PRIOR TO ANY INSTALLATION. REPORT ANY DISCREPANCIES TO THE ARCHITECT.
4. COORDINATE ALL PIPING WITH CEILING ELEVATIONS, STRUCTURE, MECHANICAL AND ELECTRICAL WORK. UNLESS DESIGNATED AS BELOW SLAB, ALL PIPING IS INTENDED TO BE CONCEALED ABOVE FINISHED CEILING IN AREAS WITH CEILINGS. IF THERE IS NO CEILING, COORDINATE PIPING TO RUN AS HIGH AS POSSIBLE. DO NOT INSTALL PIPING IN FRONT OF OR OVER TOP OF ELECTRICAL SWITCH GEAR OR PANELS.
5. ALL DOWNSPOUTS, STACKS, RISERS, ETC. SHALL BE CAREFULLY INSTALLED SO AS TO BE CONCEALED BY FINISHED CONSTRUCTION. WHERE PIPING IS EXPOSED, LOCATIONS SHALL BE COORDINATED WITH OTHER TRADES.
6. UNLESS NOTED OTHERWISE, SLOPE ALL SANITARY AND STORM PIPING AT NO LESS THAN 1/8" PER FOOT. ALL SANITARY PIPING SMALLER THAN 3" SHALL BE SLOPED AT NO LESS THAN ¼" PER FOOT.
7. REFER TO PIPING DIAGRAMS, DETAILS, AND STACKS FOR PIPING AND PIPE SIZES NOT SHOWN ON THE FLOOR PLANS. PIPE SIZES SERVING INDIVIDUAL FIXTURES ARE INDICATED ON THE PLUMBING FIXTURE SCHEDULE.
8. ALL FLOOR DRAINS ARE CONSIDERED "EMERGENCY FLOOR DRAIN" UNLESS DFU'S ARE ASSIGNED. ALL FLOOR DRAINS SHALL BE PROVIDED WITH ASSE 1072 COMPLIANT BARRIER TYPE TRAP SEAL.
9. PROVIDE ISOLATION VALVES IN ALL SUPPLY BRANCHES SERVING MULTIPLE FIXTURES. PROVIDE ADDITIONAL ISOLATION VALVES AS SHOWN ON THE DRAWINGS. PROVIDE BALANCING VALVES ON ALL HOT WATER RETURN PIPE BRANCHES.
10. SEAL ALL THROUGH FLOOR PENETRATIONS AIR AND WATER TIGHT.
11. ALL EXPOSED INSULATED PIPING IN FINISHED AREAS SHALL HAVE A PVC JACKET.
12. PIPING IS SHOW DIAGRAMATICALLY AND SHOWS ALL PIPES AS PARALLEL FOR CLARITY. HOWEVER COORDINATION AND POTENTIAL VERTICAL STACKING OF PIPING IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

PLUMBING SHEET INDEX

PLUMBING SYMBOLS LIST

NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE ABANDONED
- FUTURE
- FLOW ARROW
- UNDER FLOOR PIPING

PIPING

- WATER SERVICE — W
- DOMESTIC COLD WATER — DCW
- SOFT WATER — SW
- DOMESTIC HOT WATER (XXX°F) — DHW (XXX°F)
- TEMPERED WATER (XXX°F) — TW (XXX°F)
- DOMESTIC HOT WATER RETURN (XXX°F) — DHWR (XXX°F)
- RAW WATER — RW
- DISTILLED WATER — DW
- DEIONIZED WATER — DE
- SANITARY — SAN
- ACID WASTE — AW
- HOT WASTE — HW
- INDIRECT WASTE — IND
- COMBINATION SEWER — COMB
- FAT, OIL AND GREASE WASTE — FOG
- STORM — STM
- UNDER DRAIN — UD
- EMERGENCY STORM — E-STM
- PUMPED DISCHARGE — PD
- VENT — V
- ACID VENT — AV
- FUEL OIL SUPPLY — FOS
- FUEL OIL RETURN — FOR
- FUEL OIL VENT — FOV
- NATURAL GAS — G
- PROPANE — P
- MEDICAL OXYGEN — O2
- MEDICAL AIR — MA
- INSTRUMENT AIR — IA
- COMPRESSED AIR — CA
- VACUUM — VAC
- VACUUM CLEANING — VC
- MEDICAL VACUUM — MV
- WASTE GAS DISPOSAL — WAGD
- NITROGEN — N2
- NITROUS OXIDE — N2O
- CARBON DIOXIDE — CO2

VALVES

- BACKFLOW PREVENTER (BP)
- BALANCING/SHUT-OFF VALVE WITH GAUGE TAPPINGS
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- GAS PRESSURE REGULATOR
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE
- STRAINER

SPECIALTIES AND MISCELLANEOUS

- CAPPED PIPE
- PIPE SLEEVE
- FLEXIBLE CONNECTION
- GAUGE
- METER
- P-TRAP
- PIPE DROP
- PIPE RISE
- THERMOMETER
- THROUGH FLOOR AT LEVEL SHOWN (1)
- UNION
- VENT THROUGH ROOF (VTR)
- CLEANOUT (CO)
- WALL HYDRANT (FREEZE PROOF)
- HOSE BIBB
- YARD HYDRANT
- SHOCK ABSORBER
- FLOOR OR AREA DRAIN
- ROOF DRAIN (RD)
- CONNECT TO EXISTING
- VALVE IN RISER/DROP
- HEAT TRACED PIPE
- DENOTES ITEM PROVIDED BY ANOTHER CONTRACTOR, SHOWN FOR COORDINATION OR REFERENCE (OC)
- MEDICAL OXYGEN OUTLET (O)
- MEDICAL AIR OUTLET (A)
- MEDICAL VACUUM OUTLET (V)
- CARBON DIOXIDE OUTLET (C)
- NITROGEN OUTLET (N)
- NITROUS OXIDE OUTLET (NO)
- INSTRUMENT AIR OUTLET (I)
- SLIDE (S)
- WASTE ANESTHESIA GAS DISPOSAL (W)

REVISIONS
- 06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

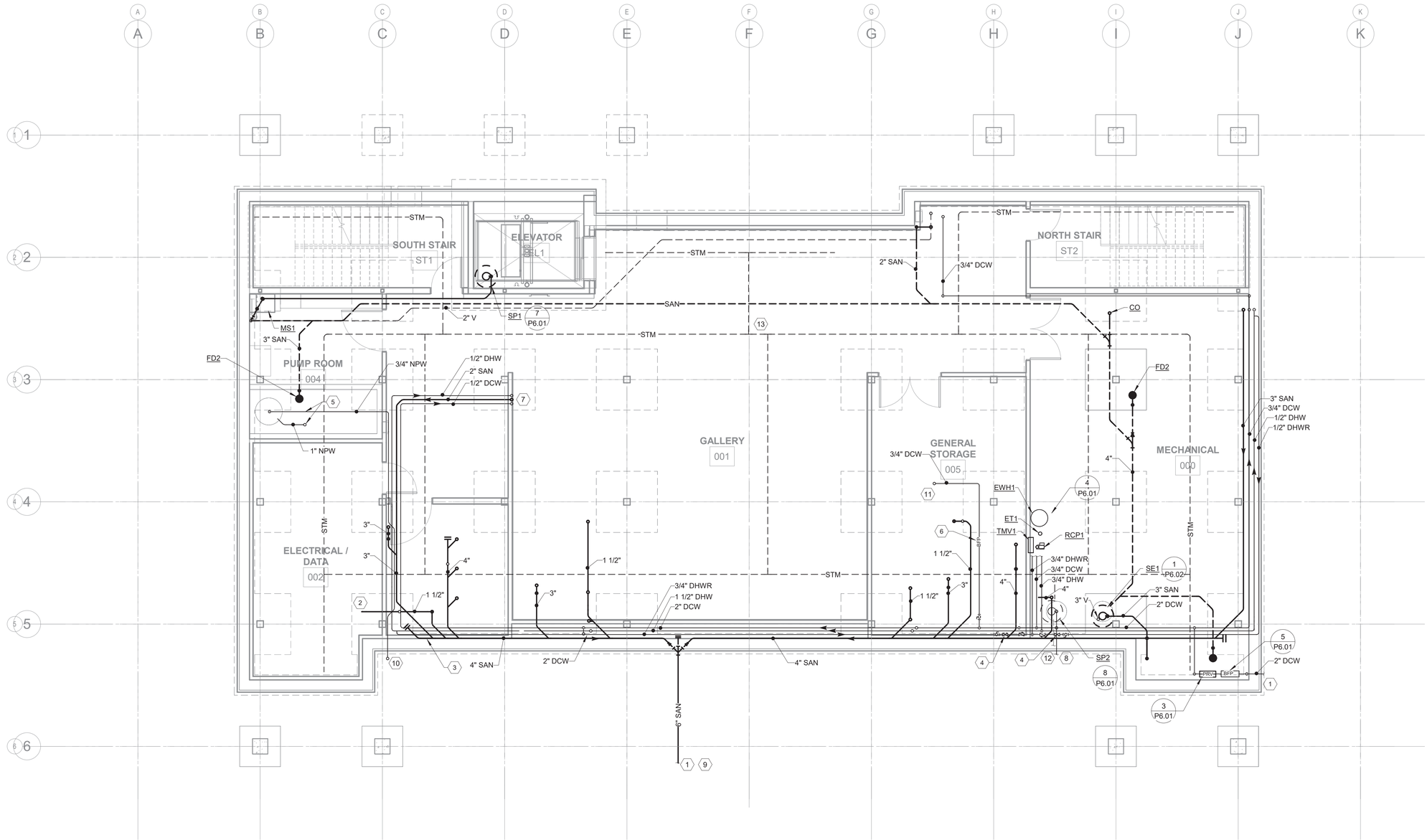
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	12" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

PLUMBING INDEX SHEET

SHEET NO. **P0.01**



1 BASEMENT PLAN
LEVEL 0

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

CODED NOTES:

1. CONTINUATION ON CIVIL DRAWINGS.
2. RUN SANITARY UP THROUGH CH3 TO WB1. ELEVATION TO BE ABOVE FFE OF FIRST FLOOR.
3. RUN SANITARY ABOVE EXHAUST DUCT.
4. BALANCE TO 1.0 GPM.
5. COORDINATE 3/4" NPW FILL LINE PIPING WITH LIVING STREAM EQUIPMENT, CONNECT TO STORAGE TANK. EXTEND NEW 1" NPW LINE FROM TANK TO PUMP BY LIVING STREAM EQUIPMENT SUPPLIER AND THEN FROM PUMP UP TO LIVING STREAM ON THE FIRST FLOOR. CONFIRM SIZE AND ROUTING WITH LIVING STREAM EQUIPMENT SUPPLIER BEFORE INSTALLATION.
6. REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER ON DCW TO AH2.
7. TO FUTURE SINK, COORDINATE FINAL LOCATION WITH LOCATION OF HANDWASHING SINK FOR LIVING STREAM.
8. SUMP TO DISCHARGE INTO STORM. COORDINATE LOCATION AND ELEVATION OF OUTER WALL PENETRATION BASED ON CIVIL DRAWINGS.
9. INVERT ELEVATION OF MAIN SANITARY LINE IS . COORDINATE CONNECTION WITH CIVIL DRAWINGS.
10. COORDINATE FINAL LOCATION WITH G.C.. PIPE TERMINATES ON GRADE.
11. TO HUMIDIFIER ON AH2.
12. DRAIN LINE FROM BOTH PERIMETER FOUNDATION DRAINAGE, BY G.C. AND ALSO DRAINAGE LINE BY THIS CONTRACTOR AROUND THE INSIDE OF THE FOUNDATIONS. PIPING SHALL BE LOCATED BELOW THE BASE MATERIAL BELOW THE BASEMENT SLAB LEVEL. REFER TO CIVIL DETAIL FOR UNDER DRAIN.
13. STORM PIPING TO BE 4" UNLESS OTHERWISE NOTED ON DRAWING. REFERENCE CIVIL DRAWINGS FOR ADDITIONAL DETAILS ON DRAINAGE SYSTEM.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

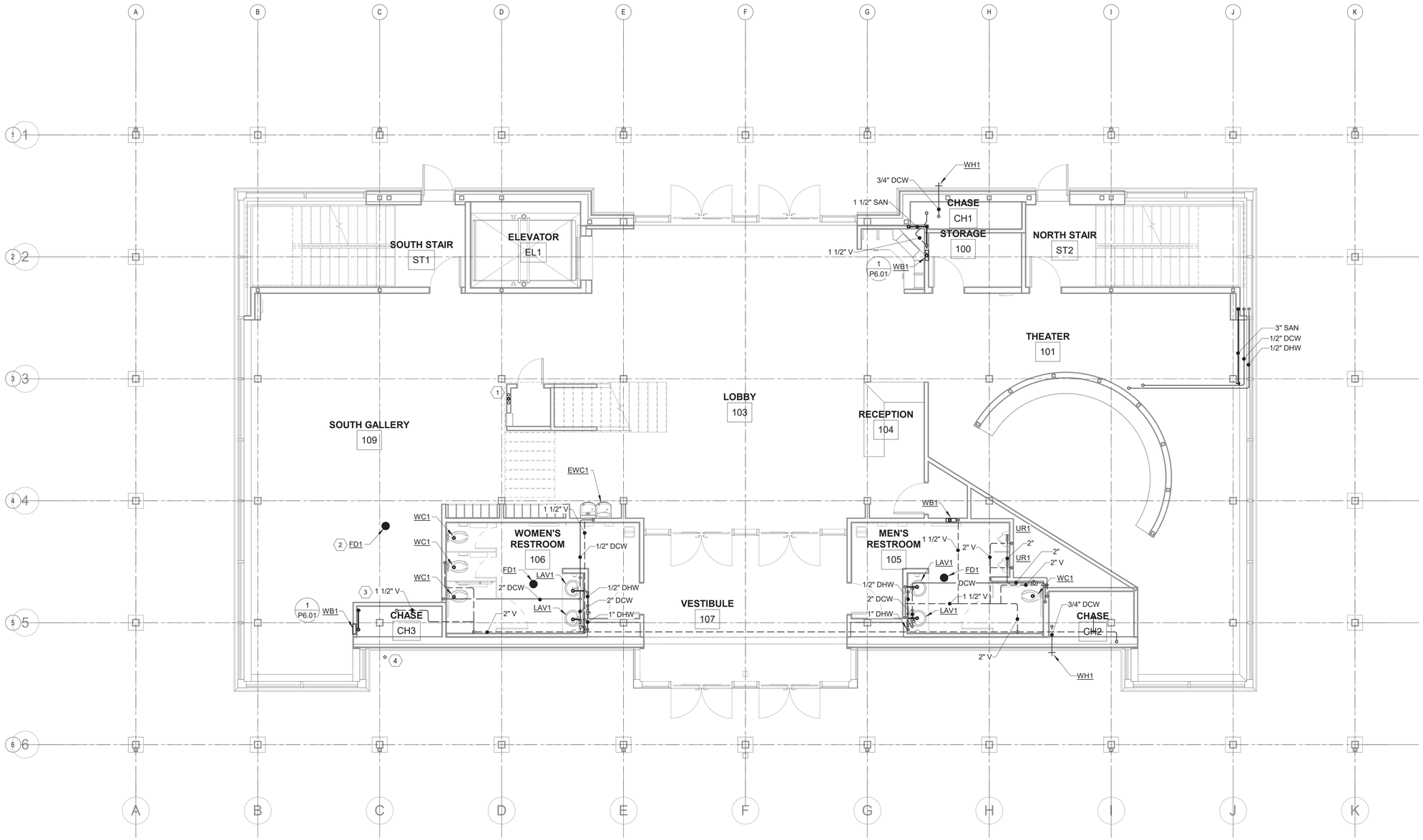
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

LEVEL 0 PLUMBING PLAN

SHEET NO. P2.00



1 FLOOR PLAN
LEVEL 1

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

CODED NOTES:

1. TO FUTURE SINK, COORDINATE FINAL LOCATION WITH LOCATION OF HANDWASHING SINK FOR LIVING STREAM.
2. COORDINATE LOCATION OF DRAIN WITH LIVING STREAM.
3. PROVIDE VENT FOR WALL BOX IN CHASE.
4. CONNECTION POINT FOR NON POTABLE WATER FILL, FITTING SHALL INCLUDE A DIELECTRIC FITTING BETWEEN THE COPPER PIPING AND A CAM-LOCK FITTING.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Evan Frank
DESIGNED BY:	Evan Frank
CHECKED BY:	Phil Stafa
PROJECT NUMBER:	2021-0003

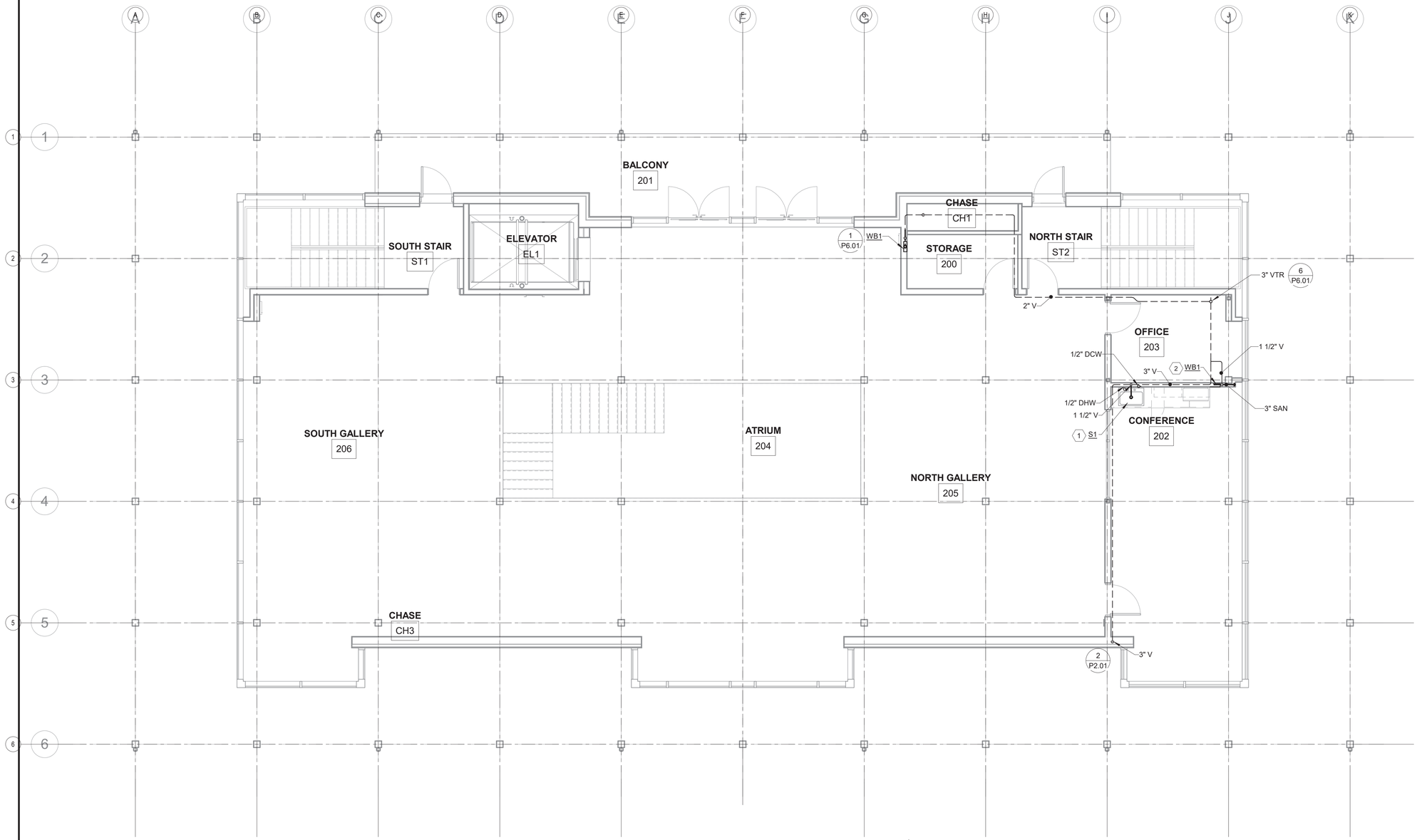
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

LEVEL 1 PLUMBING PLAN

SHEET NO.
P2.01



1 FLOOR PLAN
LEVEL 2

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

CODED NOTES:

1. PROVIDE SINK WITH FWG1
2. WALL BOX TO BE LOCATED AT THE END OF COUNTER SPACE AT AN ELEVATION OF APPROXIMATELY ONE TO TWO FEET.

REVISIONS
06.16.2022 - CONFORMED SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

LEVEL 2 PLUMBING PLAN

SHEET NO. **P2.02**

PLUMBING FIXTURE SCHEDULE

MANUFACTURERS AS INDICATED SERVE AS BASIS OF DESIGN. FOR ADDITIONAL ACCEPTABLE MANUFACTURERS, REFER TO SPECIFICATIONS.

1 = WALL MOUNTED 3 = FULLY RECESSED 5 = COUNTERTOP 7 = STAINLESS STEEL 9 = FIBERGLASS 11 = MOLDED STONE 13 = CAST IRON 15 = CHROME PLATED 17 = AS INDICATED
2 = FLOOR MOUNTED 4 = SEMI-RECESSED 6 = VITREOUS CHINA 8 = STEEL 10 = PRECAST TERRAZO 12 = BRASS 14 = WHITE 16 = AS PER MFR. STANDARD ● = PROVIDE PER SPECIFICATIONS

TAG	ADA	DESCRIPTION	PIPE CONNECTIONS				MFR. AND MODEL NUMBER	MOUNTING	MATERIAL	COLOR	CARRIER	FITTINGS AND TRIM - MFR. AND MODEL NO.		REMARKS
			SAN	VENT	DCW	DHW						FLUSH VALVE, FAUCET or MIXING VALVE	STRAINER	
WC1	●	WATER CLOSET	4"	2"	1"	-	AMERICAN STANDARD "MADERA" 3461.001	2	6	14	N	SLOAN "ROYAL" 110	-	ADA COMPLIANT, ELONGATED SIPHON ACTION JETTED BOWL, 2-1/8" FULLY-GLAZED TRAPWAY; SEAT: EXTRA HEAVY WEIGHT SOLID PLASTIC CONTAINING AN ANTIMICROBIAL AGENT, OPEN FRONT, SELF-SUSTAINING STAINLESS STEEL HINGES, BEMIS # 3155S SCT. FLUSH VALVE: MANUAL, 1.6 GPF 1-1/2" TOP SPUD.
LAV1	●	LAVATORY	2"	1-1/2"	1/2"	1/2"	AMERICAN STANDARD LUCERNE 0356.421	1	6	14	Y	CHICAGO EVR-A12A-42ABCP	-	20" X 18", D-SHAPED BOWL DESIGN, SINGLE CENTER FAUCET HOLE. FAUCET: DECK MOUNTED TOUCHLESS FAUCET 120VAC, 4" FIXED CENTERS, VANDAL PROOF PRESSURE COMPENSATING ECONO-FLO 0.5 GPM NON-AERATING SPRAY OUTLET.
UR1	●	WATER CLOSET	2"	1-1/2"	3/4"	-	AMERICAN STANDARD "WASHBROOK" 6590.001	1	6	14	Y	SLOAN "ROYAL" 186	-	SIPHON JET, 3/4" INLET SPUD, 2" OUTLET SPUD. REFER TO ARCHITECTRUAL DRAWINGS FOR MOUNTING HEIGHT. FLUSH VALVE: MANUAL, 1.0 GPF, 1-1/2" TOP SPUD, TRUE MECHANICAL OVERRIDE.
EWC1	●	ELECTRIC WATER COOLER (HI - LOW)	2"	1-1/2"	1/2"	-	OASIS PG8EBQSL	1	7	16	Y	INTEGRAL	MCGUIRE LFHST12	MECHANICALLY ACTIVATED BUBBLER NON-FILTERED 8.0 GPH OF 50 DEG F DRINKING WATER AT 80 DEG F INLET WATER TEMPERATURE AND 90 DEG F ROOM TEMPERATURE,6.0 FLA, 370 W, 120V, 1 PH, 60 HZ. UL LISTED, WALL-MOUNTED UNIT SHALL BE LEAD FREE DESIGN CONFORMING TO NSF/AISI 61 & 372 INCLUDE VANDAL-RESISTANT MECHANICAL FRONT BUBBLER BUTTON ACTIVATION. BOTTLE FILLER.
S1	●	KITCHEN SINK	2"	1-1/2"	1/2"	1/2"	JUST SL-1515-A-GR	5	7	7	N	CHICAGO EVR-A12A-42ABCP	MCGUIRE 8912CB	SINGLE BOWL 15X15 SINK, 7.5" DEEP. INCLUDE FWG1. FAUCET: DECK MOUNTED TOUCHLESS FAUCET 120VAC, 4" FIXED CENTERS, VANDAL PROOF PRESSURE COMPENSATING ECONO-FLO 0.5 GPM NON-AERATING SPRAY OUTLET.
S2	●	HANDWASHING SINK	2"	1-1/2"	1/2"	1/2"	FUTURE ADDITION OF HANDWASHING SINK	2	7	7	N	FUTURE ADDITION OF FAUCET FOR HANDWASHING SINK		-
MS1		MOP SINK	3"	1-1/2"	1/2"	1/2"	FIAT MSBID2424	2	10	16	N	T&S BRASS B-0665-BSTR-963		24" X 24" X 12" HIGH, 2" SHOULDERS W/ VINYL CAPS, 18 GA ST STEEL WALL GUARDS, CHROME PLATED FAUCET W/ WALL BRACKET, PAIL HOOK, COLOR INDEXED METAL LEVER HANDLES, VACUUM BREAKER W/ QUARTER TURN BALL VALVES; INCLUDE FLAT TYPE STAINLESS STEEL STRAINER, HOSE, MOP BRACKET AND SILICON SEALANT.

PLUMBING EQUIPMENT SCHEDULE

TAG	DESCRIPTION	MFR & MODEL	ELEC. REQ.	REMARKS
EWH1	ELECTRIC WATER HEATER	AO SMITH ENT-40	240V 4500W	40 GALLON STORAGE CAPACITY, 21 GPH RECOVERY AT 90°F RISE.
ET1	EXPANSION TANK	B&G HFT-15	-	1.0 GALLON ACCEPTANCE VOLUME, CARBON STEEL SHELL.
RCP1	RECIRCULATING PUMP	B&G ECOCIRCXL 36-45	208/1 1/6 HP	STAINLESS STEEL CONSTRUCTION, 1.75 GPM AT 25 FT. HD.
WH1	WALL HYDRANT	WOODFORD RB65	-	FREEZE-RESISTANT WITH ANTI-SIPHON VACUUM BREAKER AND 3/4" MALE HOSE THREAD, CONFORMS TO ASSE 1019-B LOCKABLE WALL BOX SHALL BE CHROME PLATED.
TMV1	THERMOSTATIC MIXING VALVE	LEONARD TM-26-LF	-	1.0 GPM MINIMUM FLOW, 3/4" SWEAT INLETS AND OUTLET, 125 PSI MAX OPERATING PRESSURE, HIGH TEMPERATURE LIMIT STOP SET FOR 120°F, ROUGH BRONZE FINISH.
FWG1	FOOD WASTE GRINDER	INSINKERATOR EVOLUTION 100	120V 60HA 1 HP	3/4" HP MOTOR, STAINLESS STEEL GRIND CHAMBER, BUILT-IN AIR SWITCH WITH CHROME AND BRUSHED STEEL OPTIONS.
WB1	WALL BOX	GUY GRAY FR-12	-	ADD FIREPROOF CAULKING IN GAPS WHERE PIPE ENTERS THE TOP OF THE BOX. USED TO COLLECT CONDENSATION FROM FAN COILS.
SP1	SUMP PUMP (ELEVATOR)	LIBERTY ELV 290	3/4 HP 120/1/60 10.4 FLA	CAPACITY: 50GPM @ 25 FT. OF HD. SYSTEM INCLUDE CAST IRON PUMP, CONTROL PANEL, CONTROL UNIT LEVEL SENSOR, OIL DETECTOR, SOLENOID VALVE, JUNCTION BOX W/ DISCONNECT, CHECK VALVE, REDUCER COUPLING AND REMOTE ALARM RECEPTACLES PROVIDED BY E.C.
SE1	SEWAGE EJECTOR	ZOELLER N98	1/2 HP 120/1/60	CAPACITY: 45GPM @ 15 FT. OF HD. SYSTEM INCLUDES CAST IRON DUPLEX PUMPS W/ CONTROL PANEL.
SP2	SUMP PUMP (FOUNDATION)	ZOELLER 6161	1/2 HP 208/1/60	CAPACITY: 86GPM @ 15 FT. OF HD. SYSTEM INCLUDE CAST IRON DUPLEX PUMPS W/ CONTROL PANEL..

CLEANOUT SCHEDULE

ITEM	DESCRIPTION	MFR & MODEL	ACCESSORIES
CO	CLEANOUT CARPET *	ZURN Z-1400-CM-HD-VP SERIES	ADJUSTABLE CAST IRON BODY WITH THREADED ABS PLUG, HEAVY DUTY NICKEL-BRONZE VANDAL- RESISTANT SCORIATED COVER, VANDAL-RESISTANT S.S. CARPET MARKER, LINE SIZE, CAULK OUTLET
CO	CLEANOUT TILE *	ZURN Z-1400-HD-VP	ADJUSTABLE CAST IRON BODY WITH THREADED ABS PLUG, HEAVY DUTY NICKEL-BRONZE VANDAL-RESISTANT ROUND SCORIATED COVER, LINE SIZE, CAULK OUTLET.
CO	CLEANOUT TILE	ZURN Z-1400-HD-VP-X*	ADJUSTABLE CAST IRON BODY WITH THREADED ABS PLUG, ROUND, HEAVY DUTY VANDAL-RESISTANT NICKEL-BRONZE COVER. RECESSED FOR TILE, LINE SIZE, CAULK OUTLET.
CO	CLEANOUT TILE	ZURN Z-1400-HD-VP-Z*	ADJUSTABLE CAST IRON BODY WITH THREADED ABS PLUG, ROUND, HEAVY DUTY VANDAL-RESISTANT NICKEL-BRONZE COVER. RECESSED FOR TERRAZZO, LINE SIZE, CAULK OUTLET.
CO	CLEANOUT CONCRETE NO VEHICLE TRAFFIC *	ZURN Z-1400-HD-VP	ADJUSTABLE CAST IRON BODY WITH THREADED ABS PLUG, HEAVY DUTY NICKEL-BRONZE VANDAL-RESISTANT SCORIATED COVER, LINE SIZE, CAULK OUTLET.
CO	CLEANOUT HEAVY TRAFFIC *	ZURN Z-1400-HD-VP	ADJUSTABLE HEAVY DUTY CAST IRON BODY WITH THREADED ABS PLUG, VANDAL-RESISTANT NICKEL-BRONZE SCORIATED GRATE COVER, LINE SIZE, CUALK OUTLET.
CO	CLEANOUT WALL	ZURN Z-1446-VP	VANDAL-RESISTANT STAINLESS STEEL COVER. STAINLESS STEEL SCREW LENGTH AS REQUIRED. CONTRACTOR TO PROVIDE PIPE WITH THREADED ABS PLUG AND FITTING.
CO	CLEANOUT EXTERIOR *	ZURN Z-1402 SERIES	CAST IRON BODY WITH HEAVY DUTY THREADED ABS PLUG, VANDAL-RESISTANT NICKEL-BRONZE HEAVY DUTY SCORIATED COVER, PUSH-ON JOINT.

* SUBMIT ANSI CERTIFICATION WITH SHOP DRAWINGS

DRAIN SCHEDULE

TAG	DESCRIPTION	MFR & MODEL	REMARKS
FD1	FLOOR DRAIN (GENERAL)	ZURN Z415-VP-6B	CAST IRON BODY, INVERTABLE MEMBRANE CLAMP, ADJUSTABLE COLLAR, TYPE "B" ADJUSTABLE NICKEL BRONZE STRAINER, VANDAL PROOF TOP. SIZE AS INDICATED ON DRAWINGS.
FD2	FLOOR DRAIN (MECHANICAL SPACES)	ZURN Z525-4IC-DG-VP	CORROSION RESISTANT COATED CAST IRON BODY 9" DIAM. CAST IRON GRATE W/ VANDAL-RESISTANT SCREWS, 4" BOTTOM INSIDE CAULK OUTLET. SIZE AS INDICATED ON DRAWINGS.

SHOCK ABSORBER SCHEDULE

ITEM	FIXTURE UNITS CONNECTED	P. D. I. SYMBOL
SA1	1 - 11	A
SA2	12 - 32	B
SA3	33 - 60	C
SA4	61 - 113	D
SA5	114 - 154	E
SA6	155 - 330	F

REVISIONS
06.16.2022 - CONFORMED SET

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KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
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Ohio Department of Natural Resources

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1575 US-68, XENIA, OHIO 45385

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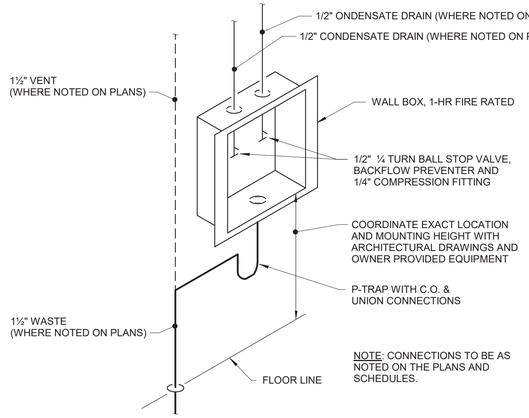
PLUMBING SCHEDULES

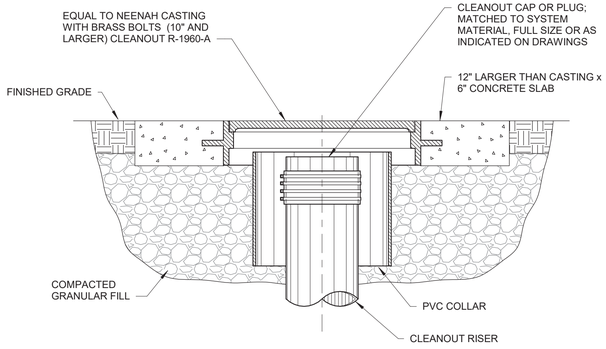
SHEET NO.
P5.01



1 DETAIL

WALL BOX WITH DCW, DHW & DRAIN CONNECTION

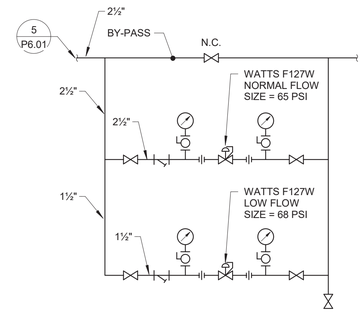
N.T.S.



2 DETAIL

EXTERIOR CLEANOUT

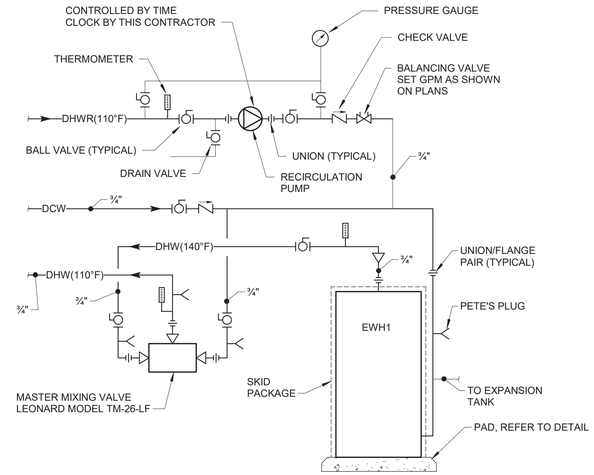
N.T.S.



3 DETAIL

WATER PRESSURE REDUCING STATION

N.T.S.



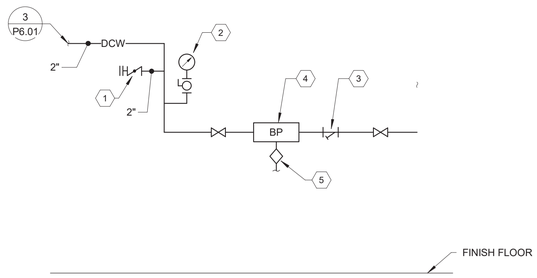
4 DETAIL

DOMESTIC WATER HEATER / THERMOSTATIC MIXING VALVE / DHWR RECIRCULATION PUMP

N.T.S.

CODED NOTES

1. PROVIDE 3" FLANGED BUTTERFLY VALVE FOR FUTURE CONNECTION.
2. PRESSURE GAUGE (TYPICAL).
3. STRAINER (TYPICAL).
4. REDUCED PRESSURE BACKFLOW PREVENTER (LINE SIZE).
5. ROUTE DRAIN PIPING FULL SIZE FROM BACKFLOW PREVENTER TO NEAREST FLOOR DRAIN. PROVIDE AIR GAP FITTING.

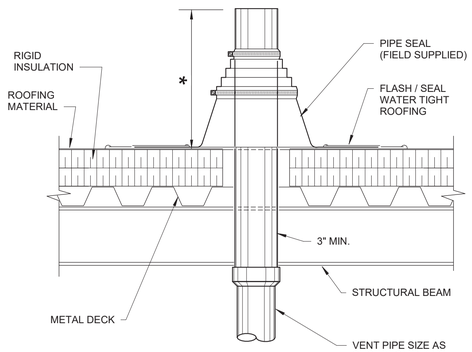


NOTE : PROVIDE B-LINE OR UNISTRUT SUPPORTS FOR SECURELY ANCHORING DOMESTIC WATER METER / BACKFLOW PREVENTER ASSEMBLY. BOLT ASSEMBLY TO FLOOR.

5 DETAIL

WATER METER / BACKFLOW PREVENTER ASSEMBLY

N.T.S.

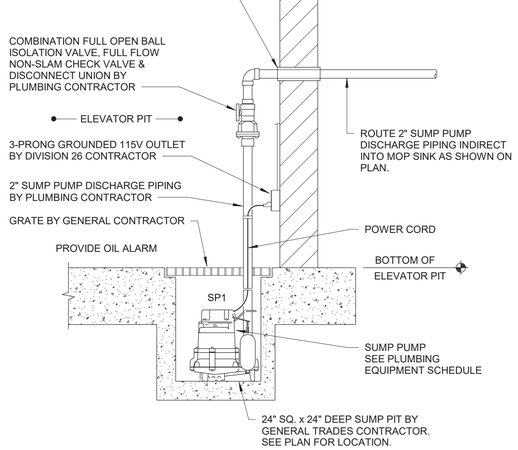


* 12" MIN. OR AS REQUIRED

6 DETAIL

VENT PENETRATION THRU ROOF

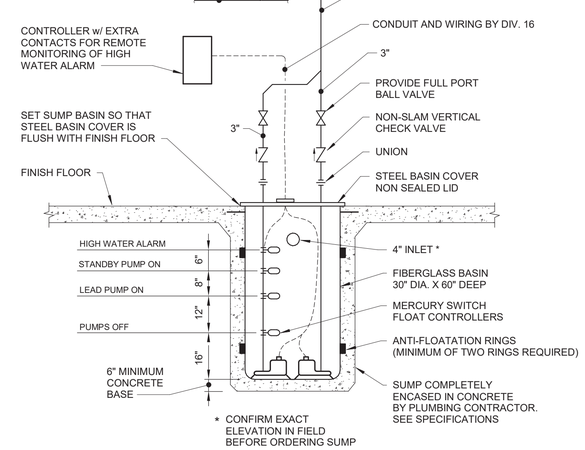
N.T.S.



7 DETAIL

ELEVATOR SUMP PUMP

N.T.S.



* CONFIRM EXACT ELEVATION IN FIELD BEFORE ORDERING SUMP

8 DETAIL

GROUNDWATER SUMP PUMP PIPING

N.T.S.

REVISIONS

06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Evan Frank
DESIGNED BY:	Evan Frank
CHECKED BY:	Phil Stafa
PROJECT NUMBER:	2021-0003

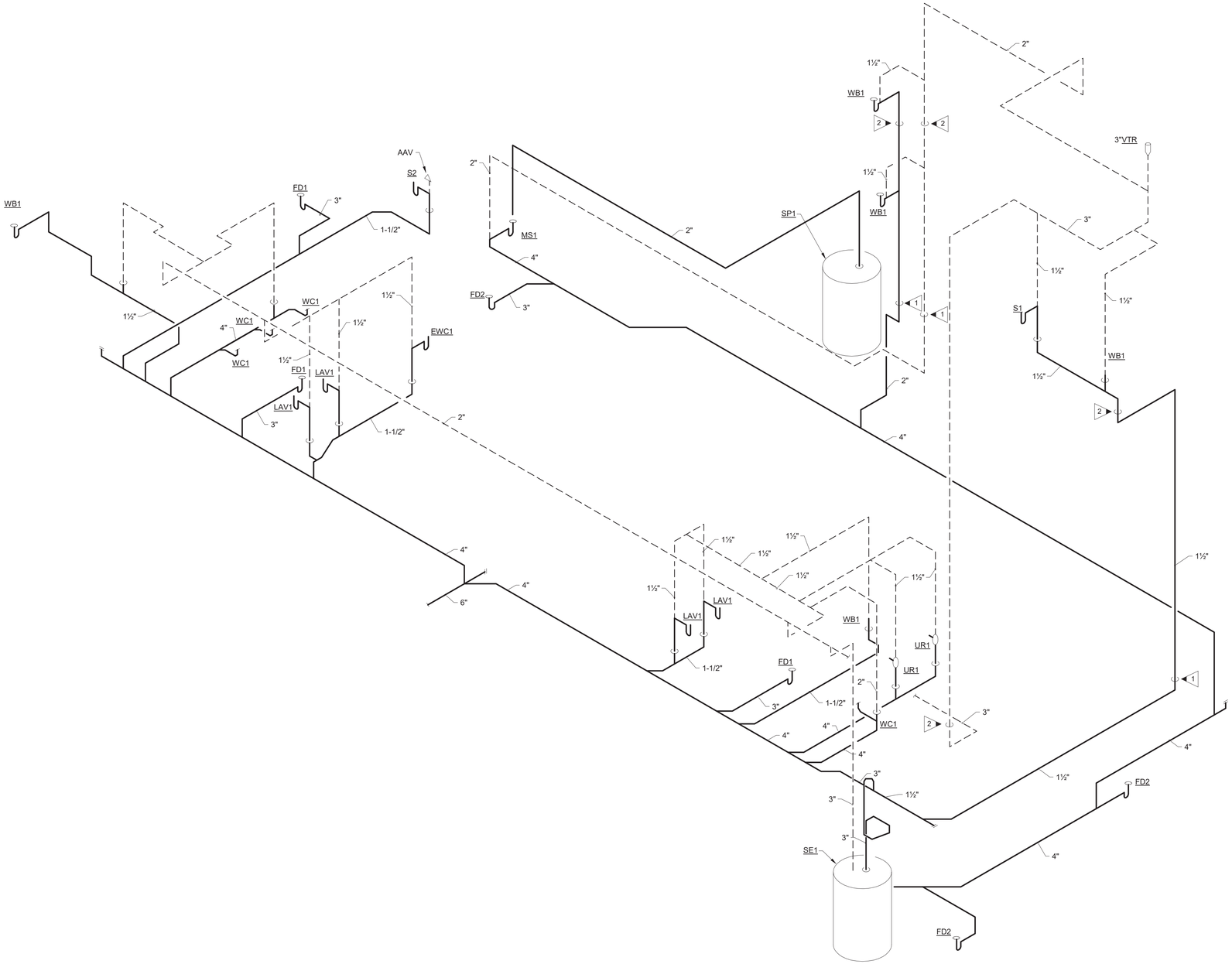
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	12" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

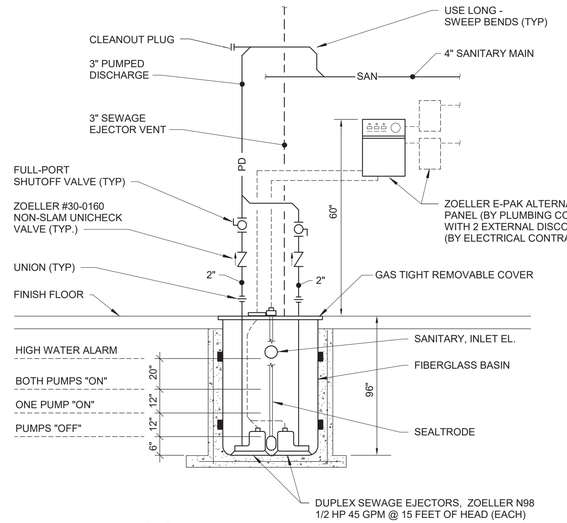
PLUMBING DETAILS

SHEET NO. **P6.01**



A STACK

N.T.S.



NOTES :

1. PROVIDE CAST IRON INLET FLANGE FOR ALL CONNECTIONS TO BASIN. FLANGE TO BE DESIGNED TO FIT CURVATURE OF BASIN. INCLUDE GASKET & STAINLESS STEEL MOUNTING HARDWARE.
2. INSTALL SCHEDULE 80 STAINLESS STEEL GUIDE RAILS WITH STAINLESS STEEL LIFTING CHAIN.

1 DETAIL

SEWAGE EJECTOR

N.T.S.

REVISIONS

06.16.2022 - CONFORMED SET

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PLUMBING DETAILS AND STACKS

SHEET NO. P6.02

GENERAL NOTES – HVAC (APPLY TO ALL HVAC DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO MECHANICAL CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.
2. COORDINATE EXACT LOCATION OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLANS.
3. UNLESS NOTED OTHERWISE, PROVIDE DUCT TO DIFFUSERS THE SAME SIZE AS DIFFUSER NECK. PROVIDE FLEXIBLE DUCT CONNECTION TO THE DIFFUSER AND IT SHALL BE NO MORE THAN 5 FEET IN LENGTH.
4. VOLUME DAMPERS:
   A. PROVIDE VOLUME DAMPERS AT ALL DUCT CONNECTIONS. THIS INCLUDES, BUT IS NOT LIMITED TO, DUCT CONNECTIONS AT SHAFTS, TAKEOFFS TO SUBMAINS (SERVING TWO OR MORE BRANCH MAINS), TAKEOFFS TO BRANCH MAINS (SERVING TWO OR MORE OUTLETS) AND BRANCHES TO SINGLE TERMINALS OR OUTLETS.
   B. PROVIDE ADDITIONAL DAMPERS AS NOTED ON THE DRAWINGS.
   C. THE FACT THAT SOME, BUT NOT NECESSARILY ALL, VOLUME DAMPERS ARE SHOWN ON THE CONTRACT DRAWINGS DOES NOT RELIEVE THE CONTRACTOR FROM THESE REQUIREMENTS. LOCATE VOLUME DAMPERS IN ACCESSIBLE LOCATIONS.
5. PROVIDE A TEMPERATURE SENSOR FOR EACH TERMINAL BOX AND EACH CEILING MOUNTED UNIT HEATER. PREFERRED LOCATIONS ARE INDICATED ON THE PLANS.
6. IN RETURN AIR PLENUMS, PROVIDE AIR TRANSFER OPENINGS IN FULL HEIGHT WALLS TO PROVIDE A RETURN AIR PATH FROM EACH ROOM BACK TO THE AIR HANDLING EQUIPMENT. OPENINGS SHALL BE A MINIMUM OF 1.0 SQUARE FOOT WHERE ROOM SUPPLY CFM IS LESS THAN 400 CFM AND AN ADDITIONAL 1.0 SQUARE FOOT FOR EACH 400 CFM OR PORTION THEREOF.
7. COORDINATE THE LOCATION OF FIN TUBE AND COVER WITH ALL ELECTRICAL OUTLETS, INCLUDING BUT NOT LIMITED TO, POWER, VOICE, AND DATA.
8. CLOSE ALL OPENINGS IN WALLS, CEILINGS, AND FLOORS, WHETHER EXPOSED OR CONCEALED, THAT ARE THE RESULT OF REMOVING DUCTWORK, PIPING, OR OTHER MECHANCIAL ELEMENTS. MATCH ADJACENT SURFACE CONDITIONS.
9. CONDENSATION LINES FROM FAN COIL UNITS TO BE SIZED AT ¾" UNLESS OTHERWISE NOTED ON DRAWINGS.
10. REFRIGERATION PIPING IS SHOWN DIAGRAMATICALLY. CONFIRM SIZES OF ALL REFRIGERATION PIPING WITH MANUFACTURER.
11. MAINTAIN MECHANICAL CLEARANCES ON ACCESS PANELS TO ALLOW FOR REPLACEMENT OF MECHANICAL EQUIPMENT.

HVAC SYMBOLS LIST

NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

- UNDERFLOOR PIPING OR DUCTWORK
- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE ABANDONED

PIPING

- HEATING WATER SUPPLY — HWS
- HEATING WATER RETURN — HWR
- CHILLED WATER SUPPLY — CWS
- CHILLED WATER RETURN — CWR
- CONDENSER WATER SUPPLY — CS
- CONDENSER WATER RETURN — CR
- LOW PRESSURE STEAM — LPS(#)
- LOW PRESSURE CONDENSATE — LPR(#)
- HIGH PRESSURE STEAM — HPS(#)
- HIGH PRESSURE CONDENSATE — HPR(#)
- CONDENSATE PUMP DISCHARGE — CPD
- REFRIGERANT LIQUID — L
- REFRIGERANT SUCTION — S
- REFRIGERANT HOT GAS — HG
- COOLING COIL CONDENSATE — C
- VENT — V
- HEAT PUMP WATER SUPPLY — HPWS
- HEAT PUMP WATER RETURN — HPWR

SPECIALTIES

- AUTOMATIC AIR VENT WITH BALL VALVE
- MANUAL AIR VENT
- CONCENTRIC INCREASER
- CONCENTRIC REDUCER
- ECCENTRIC INCREASER
- ECCENTRIC REDUCER
- FILL FUNNEL
- FLEXIBLE CONNECTION
- FLOW ARROW
- FLOW SWITCH
- GAUGE WITH BALL VALVE
- HEAT TRACED PIPE
- METER
- PIPE ANCHOR
- CAP
- DROP
- RISE
- PRESSURE/TEMPERATURE TEST PLUG
- PIPE ALIGNMENT GUIDE
- FIRE RATED PIPE SLEEVE
- SIGHT GLASS
- STRAINER
- THERMOMETER
- THRUST BLOCK
- STEAM TRAP
- UNION OR FLANGE
- VACUUM BREAKER
- VALVE IN RISER/DROP

VALVES

- 2-WAY CONTROL VALVE
- 3-WAY CONTROL VALVE
- BALANCE/SHUT-OFF VALVE
- BALL VALVE
- BUTTERFLY VALVE
- CHECK VALVE
- EXPANSION VALVE
- ISOLATION VALVE - SEE PROJECT SPECIFICATIONS FOR REQUIREMENTS
- GATE VALVE
- GLOBE VALVE
- PLUG VALVE
- PRESSURE REDUCING VALVE
- PRESSURE RELIEF VALVE
- SOLENOID VALVE

MISCELLANEOUS

- DUCT ACCESS DOOR — A.D. / A.D.
- FIRE DAMPER — FD
- SMOKE DAMPER — SD
- COMB. FIRE/SMOKE DAMPER — CD
- DUCT VOLUME DAMPER
- MOTOR OPERATED DAMPER — M
- DUCT CHANGE IN ELEVATION — UP (OR DOWN)
- FLEX DUCT
- TURNING VANES
- SPIN-IN FITTING
- DUCT SECTIONS
  - POSITIVE PRESSURE (SUPPLY/OUTSIDE) — RISE / DROP
  - NEGATIVE PRESSURE (RETURN/RELIEF) — RISE / DROP
  - NEGATIVE PRESSURE (EXHAUST) — RISE / DROP
- CARBON DIOXIDE SENSOR — C
- HUMIDISTAT OR HUMIDITY SENSOR (MOUNT 48" A.F.F. U.N.O.) — H
- THERMOSTAT OR SPACE TEMPERATURE SENSOR (MOUNT 48" A.F.F. U.N.O.) — T
- SMOKE DETECTOR BY DIV. 26 DIV 23 TO PROVIDE DUCT ACCESS DOOR AT EACH OF THESE LOCATIONS — S
- DIFFUSER
- RETURN AIR DEVICE
- TERMINAL BOXES, WITH/WITHOUT REHEAT
- CONNECT TO EXISTING

HVAC SHEET INDEX

REVISIONS
- 06.16.2022 - CONFORMED SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

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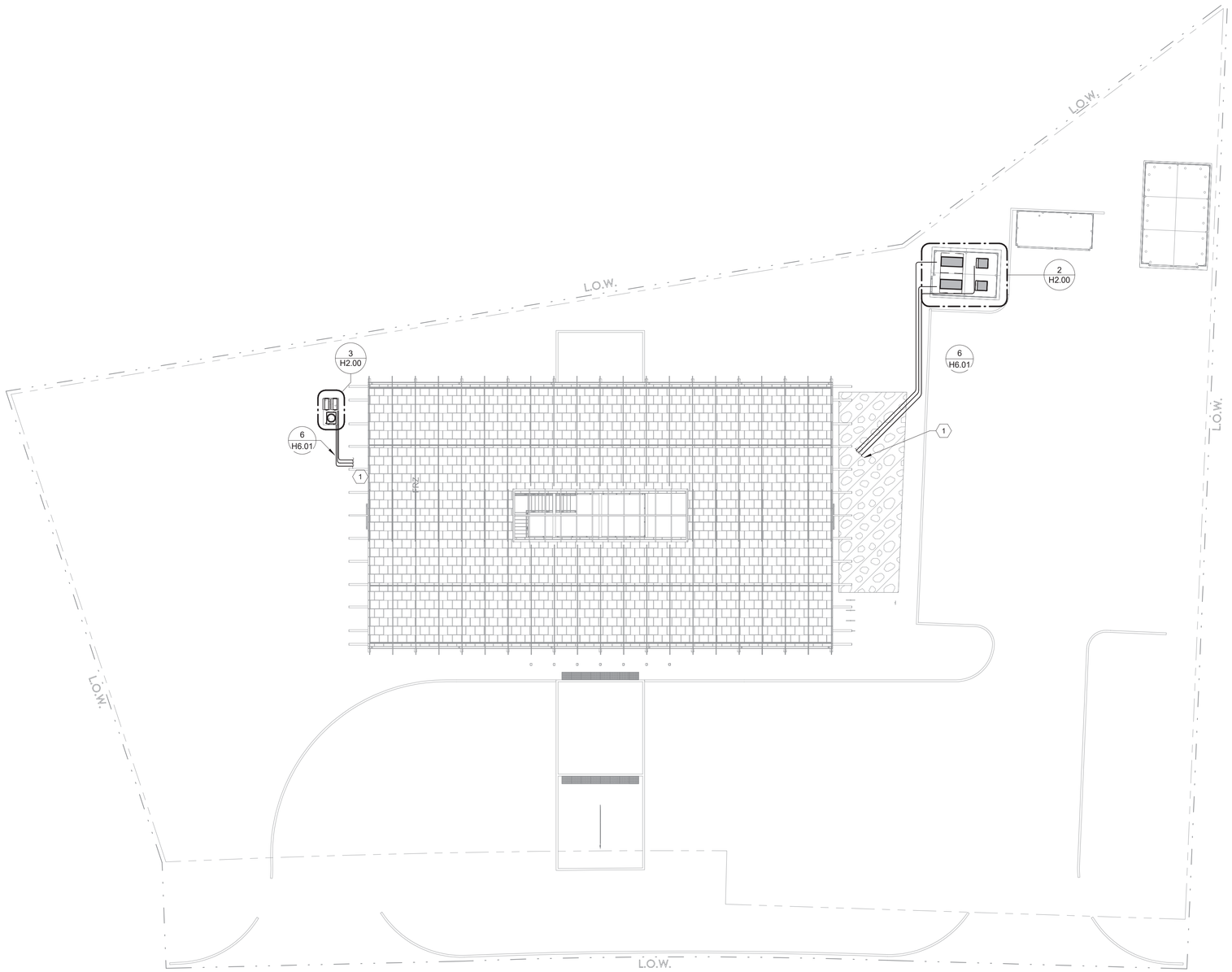
HVAC INDEX SHEET

SHEET NO. **H0.01**



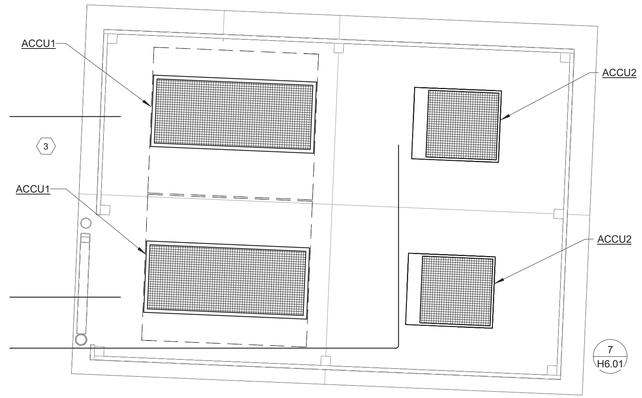
1 SITE PLAN

SCALE: 1/16" = 1'-0"

0' 2' 4' 8' 16'

CODED NOTES:

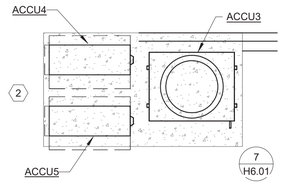
1. SEE SHEET H2.01 FOR CONTINUATION.
2. COORDINATE EXACT LOCATION OF CONDENSING UNIT ENCLOSURE WITH ARCHITECTURAL DRAWINGS. ENSURE UNITS ARE INSTALLED WITH PROPER MECHANICAL CLEARANCE BASED ON MANUFACTURER RECOMMENDATION.
3. EACH UNIT IS TO BE PLACED NO CLOSER THAN 12" FROM WALLS AND 40" FROM OTHER UNITS.



2 VRV AND DOAS CONDENSING UNITS

SCALE: 3/8" = 1'-0"

0' 1' 2' 4' 8'



3 SPLIT SYSTEM CONDENSING UNITS

SCALE: 3/8" = 1'-0"

0' 1' 2' 4' 8'

REVISIONS

06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

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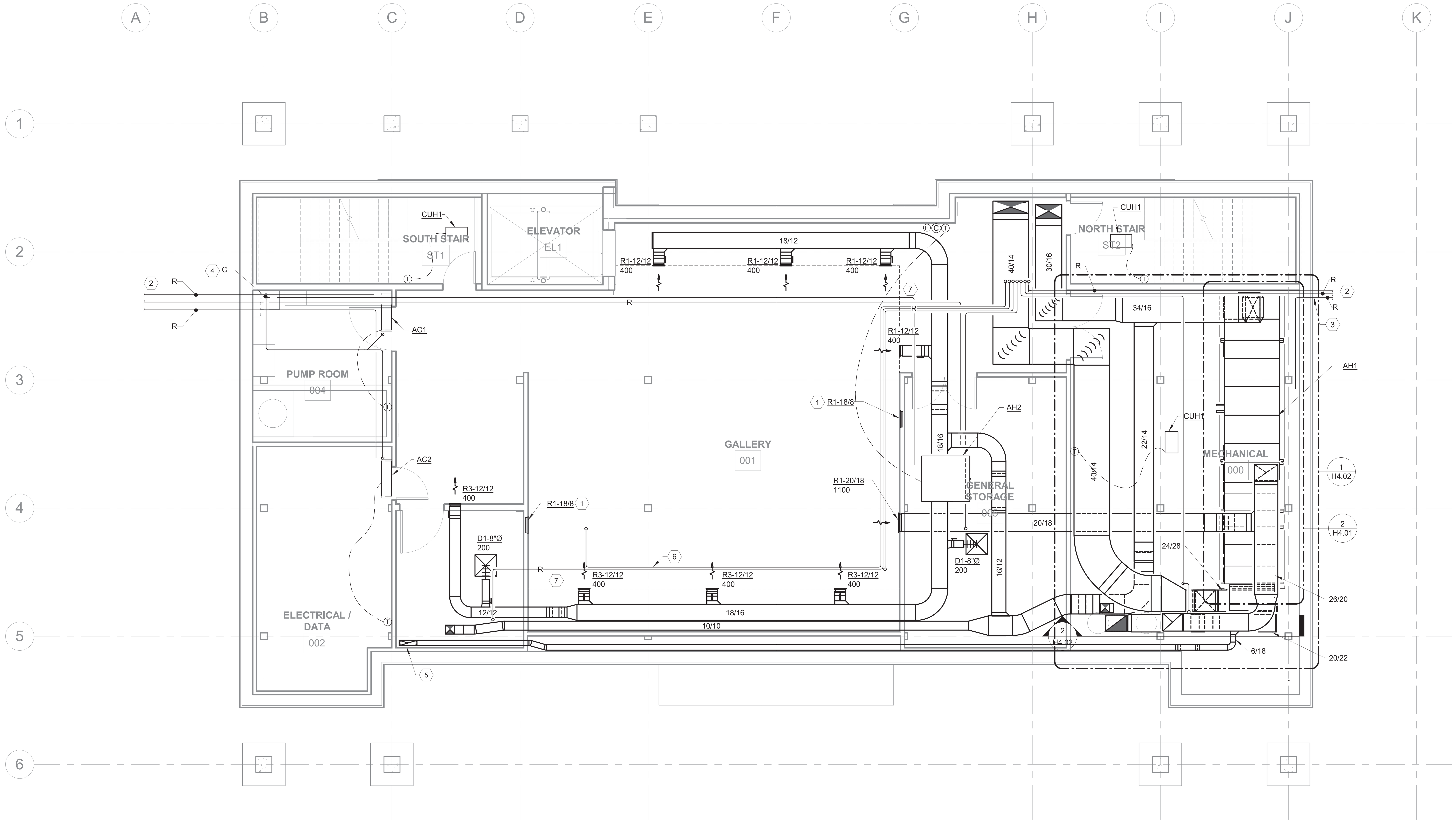
LEVEL 1 HVAC SITE PLAN

SHEET NO. **H2.00**



1 BASEMENT PLAN

LEVEL 0

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

CODED NOTES:

1. BOTTOM OF GRILLE ELEVATION TO BE 7'-1" ABOVE SLAB.
2. CONTINUED ON H2.00.
3. ONE REFRIGERANT LINE TO BE RAN DIRECTLY TO AH1 TO SUPPLY DX COIL. OTHER TWO LINES TO BE RAN UP TO FIRST AND SECOND FLOORS THROUGH CH1 TO BRANCH SELECTOR BOXES.
4. INDIRECT CONDENSATION LINES INTO MOP SINK.
5. RUN EXHAUST DUCT UP THROUGH CH3 TO WOMEN'S RESTROOM.
6. RUN REFRIGERANT LINES ABOVE CEILING OF BASEMENT.
7. DASHED LINE REPRESENTATIVE OF EDGE OF SOFFIT LOCATION.

REVISIONS

2021.12.22 - Design Development Phase Submission

06.16.2022 - CONFORMED SET

KORDA

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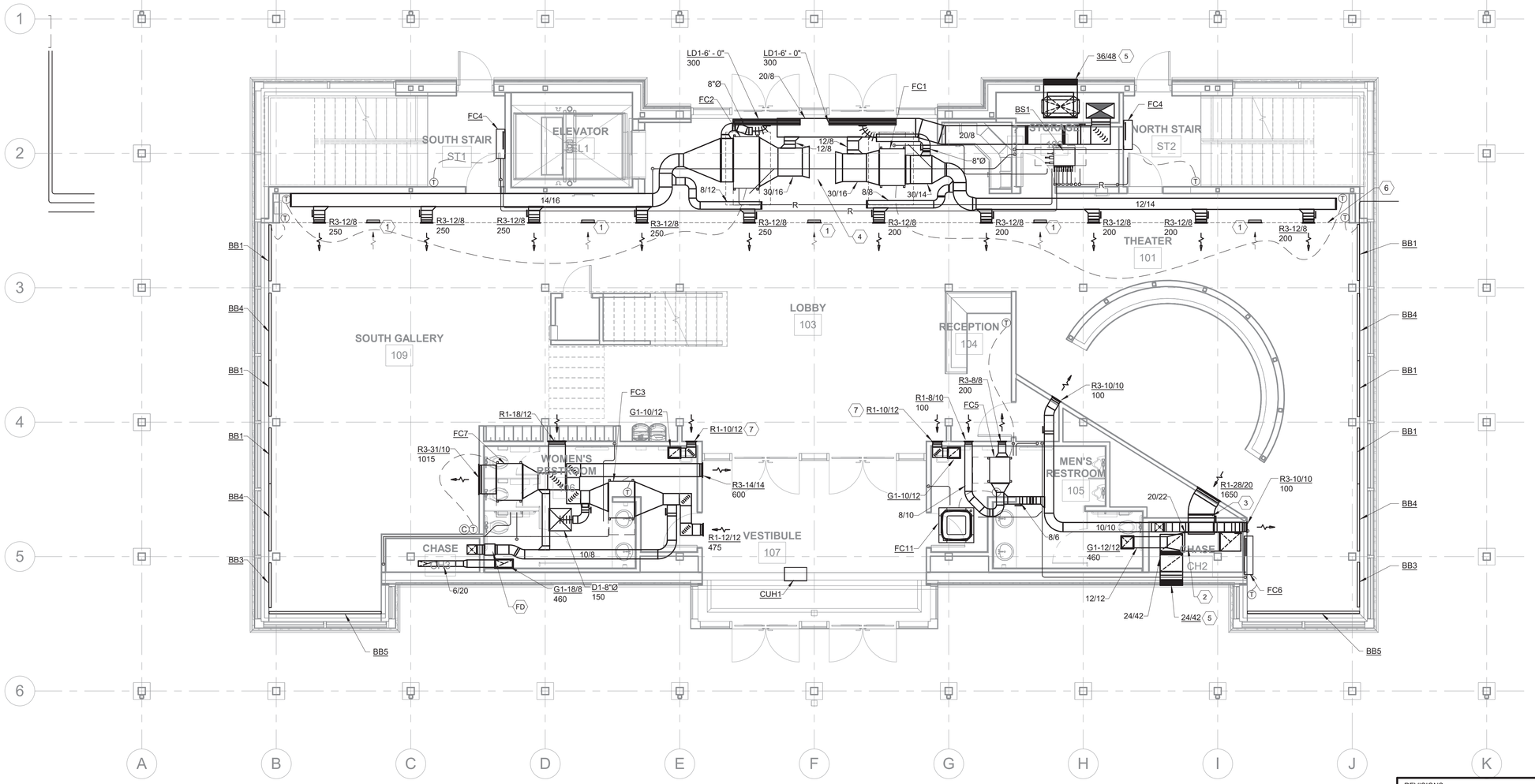
LEVEL 0 HVAC PLAN

SHEET NO.
H2.01



1 FLOOR PLAN
LEVEL 1

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

CODED NOTES:

1. RETURN GRILLE FOR RETURN AIR BACK TO FAN COIL UNITS IN SOFFIT. SPACE SERVES AS RETURN PLENUM.
2. ADD DIFFERENTIAL PRESSURE SENSOR IN DUCT AS SHOW, REFER TO SEQUENCE OF OPERATIONS.
3. DAMPER TO BE MOTORIZED.
4. PROVIDE ACCESS DOORS IN CEILING FOR MAINTENANCE AND POTENTIAL FUTURE REPLACEMENT OF FAN COIL UNITS. DOORS TO BE 4'-0" WIDE BY 6'-6" LONG EACH, LOCATE BELOW EACH FAN COIL UNIT.
5. SEE SPECS FOR DETAILS ON LOUVER.
6. DASHED LINE REPRESENTATIVE OF EDGE OF SOFFIT LOCATION.
7. BOTTOM OF GRILLE ELEVATION TO BE 9'-6" ABOVE FLOOR.

REVISIONS
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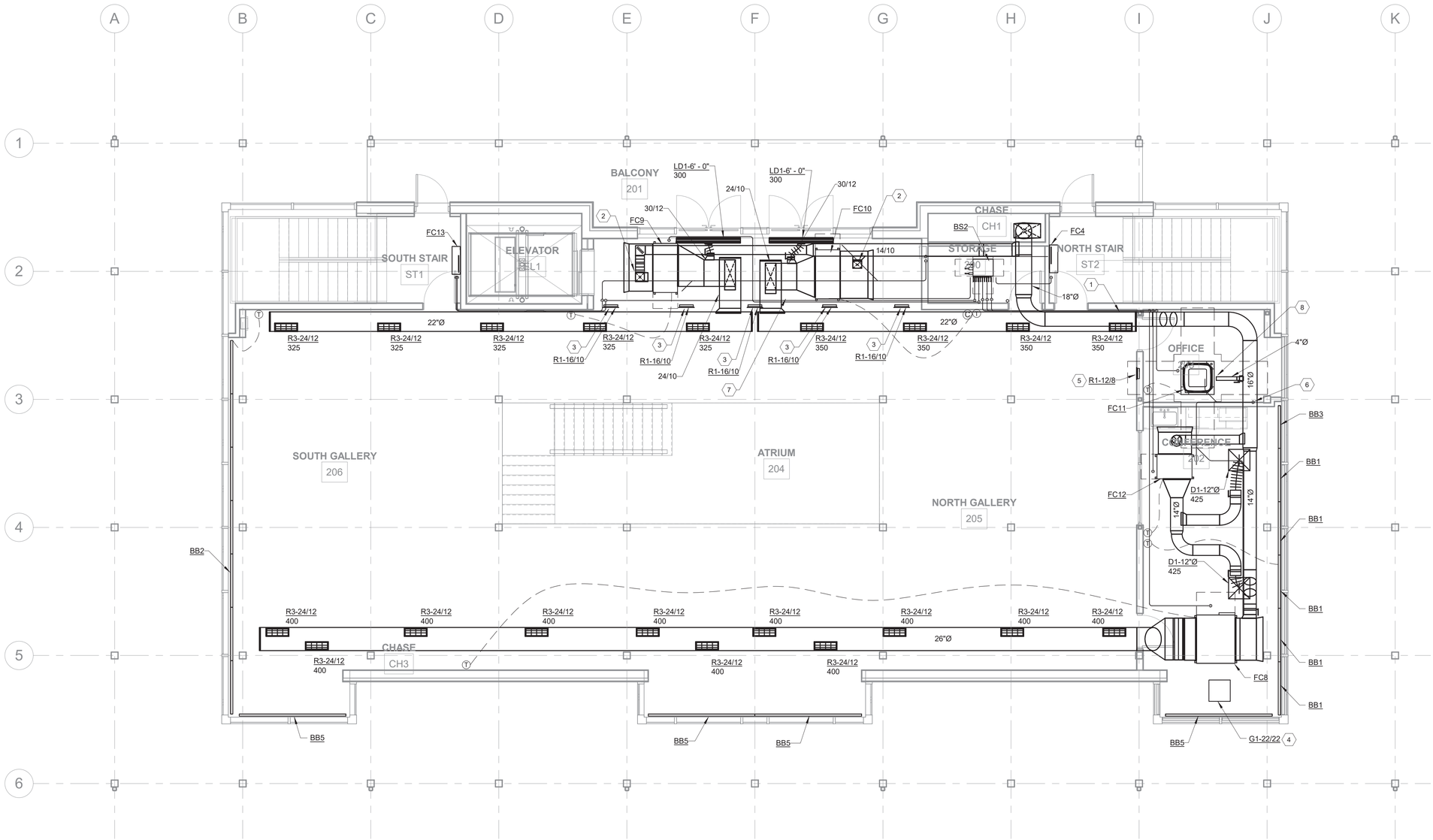
LEVEL 1 HVAC PLAN

SHEET NO. H2.02



CODED NOTES:

1. RUN REFRIGERANT PIPING TIGHT TO WALL. CONCEAL BEHIND 22Ø DUCT.
2. SUPPLY PRECONDITIONED OUTSIDE AIR FROM AH1 TO RETURN DUCT.
3. PROVIDE RETURN GRILLES TO ALLOW AIR TO RETURN TO RETURN PLENUM.
4. PROVIDE 22" x 22" TRANSFER GRILLE IN CEILING ABOVE CONFERENCE ROOM TO ALLOW AIR TO RETURN TO FC12.
5. PROVIDE TRANSFER GRILLE IN TOP OF WALL, ELEVATION TO BE 8'-1" ABOVE FLOOR.
6. DRAIN CONDENSATE FROM FAN COIL UNITS IN WALL BOX, SEE P2.02.
7. PROVIDE ACCESS DOORS IN CEILING FOR MAINTENANCE AND POTENTIAL FUTURE REPLACEMENT OF FAN COIL UNITS. DOORS TO BE 4'-0" WIDE BY 6'-6" LONG, PLACE DIRECTLY BENEATH FAN COIL UNITS.
8. DUCT PRECONDITIONED OUTSIDE AIR FROM AH1 DIRECTLY INTO SIDE OF FC11 PER MANUFACTURER INSTRUCTION.

1 FLOOR PLAN
LEVEL 2

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

N

REVISIONS
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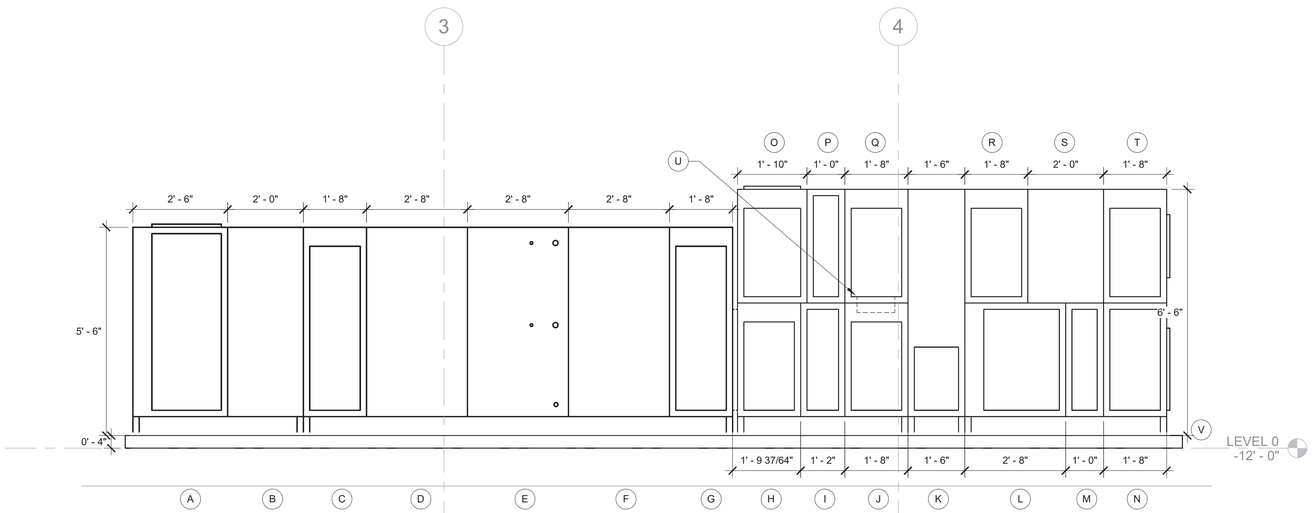
LEVEL 2 HVAC PLAN

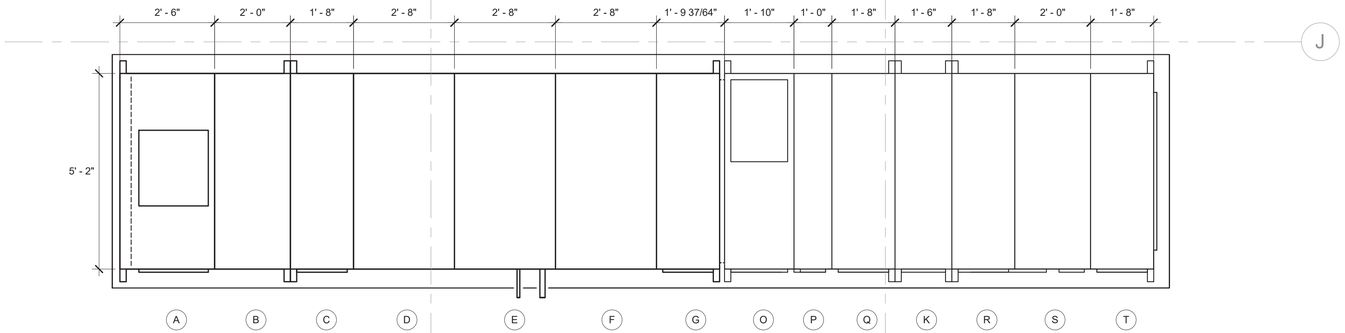
SHEET NO.
H2.03



1 DETAIL

DOAS CONFIGURATION ELEVATION

N.T.S.



3

4

2 DETAIL

DOAS ENLARGED PLAN VIEW

N.T.S.

DOAS CONFIGURATION

A. 22/24 OUTLET (1'-10" X 4'-8" DOOR)
B. FAN ARRAY
C. ACCESS
D. ELECTRIC REHEAT COIL (1'-4" X 4'-4" DOOR)
E. DX/HX COIL
F. ELECTRIC PREHEAT COIL
G. PRE CONDITIONED AIR INLET (1'-4" X 4'-4" DOOR)
H. ACCESS (1'-4" X 2'-4" DOOR)
I. FILTER (0'-10" X 2'-8" DOOR)
J. ACCESS (1'-4" X 2'-4" DOOR)
K. HEAT EXCHANGER WHEEL (1'-2" X 1'-8" DOOR)
L. ACCESS (2'-0" X 2'-8" DOOR)
M. FILTER (0'-8" X 2'-8" DOOR)
N. 50/26 OA INLET (1'-4" X 2'-8" DOOR)
O. 26/18 RETURN AIR INLET (1'-6" X 2'-4" DOOR)
P. FILTER (0'-8" X 2'-8" DOOR)
Q. ACCESS (1'-4" X 2'-4" DOOR)
R. ACCESS (1'-4" X 2'-4" DOOR)
S. EXHAUST FAN
T. 50/20 EXHAUST AIR OUTLET (1'-4" X 2'-4" DOOR)
U. BYPASS DAMPER
V. 4" HOUSEKEEPING PAD

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REVISIONS
06.16.2022 - CONFORMED SET

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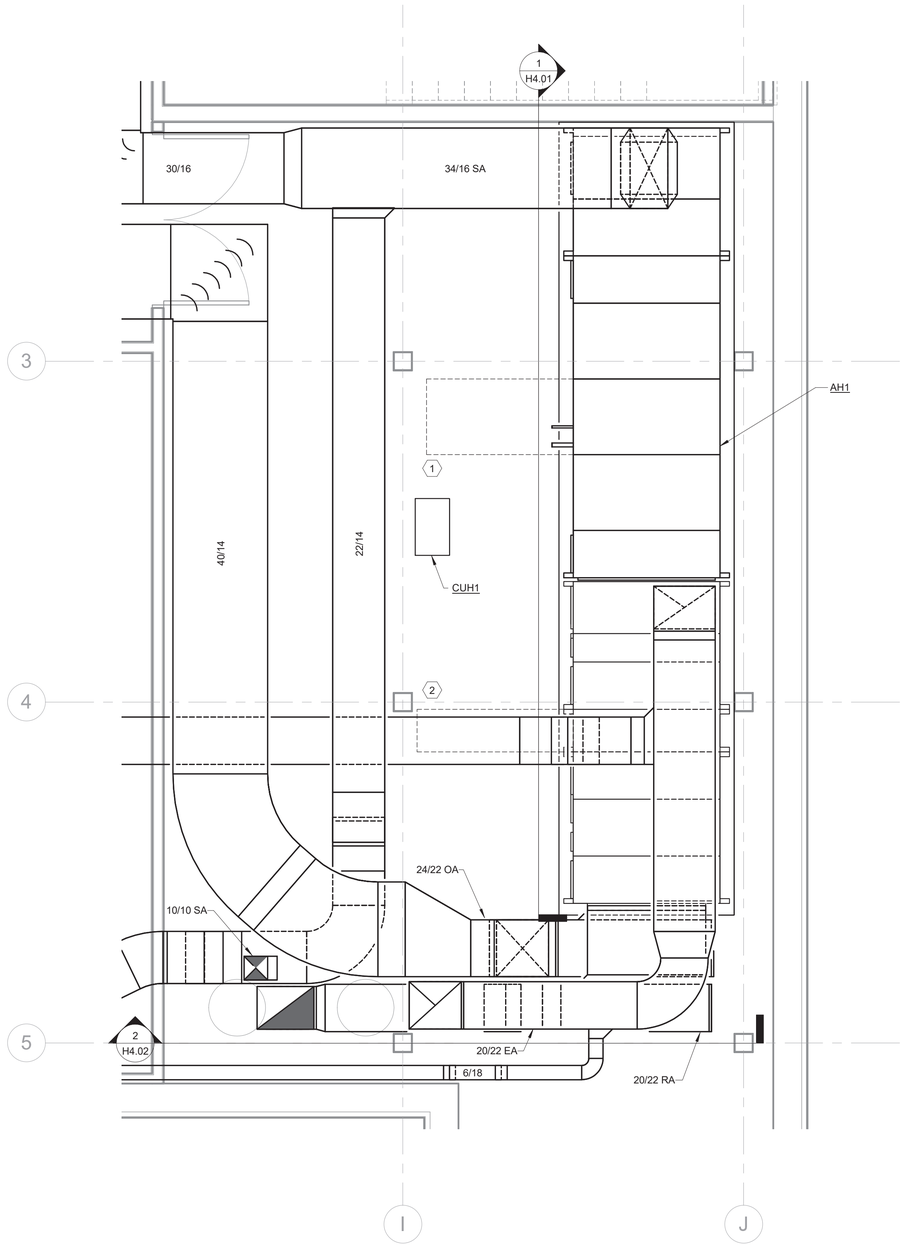
HVAC DOAS CONFIGURATION

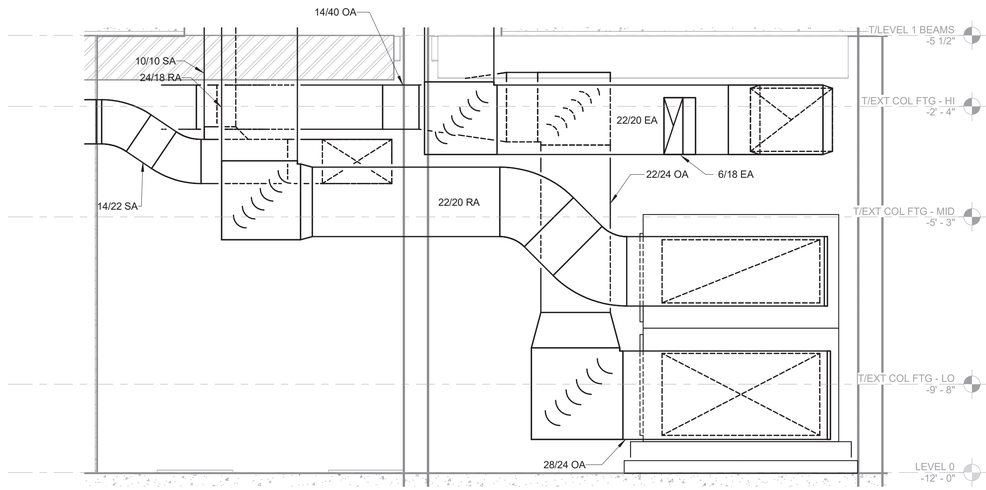
SHEET NO. **H4.01**



1 MECHANICAL ROOM ENLARGED PLAN VIEW
LEVEL 0
SCALE: 3/8" = 1'-0"
0" 6" 1" 3'

CODED NOTES;

1. MAINTAIN CLEARANCE FOR DX COIL PULL.
2. MAINTAIN CLEARANCE FOR HEAT EXCHANGER WHEEL PULL.



2 SECTION
DOAS RETURN/OA DUCTWORK
SCALE: 1/2" = 1'-0"
0" 6" 1' 2" 3'

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Evan Frank
DESIGNED BY:	Evan Frank
CHECKED BY:	Phil Stafa
PROJECT NUMBER:	2021-0003

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	As indicated
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

HVAC MECHANICAL ROOM DUCTWORK

SHEET NO.
H4.02

DEHUMIDIFYING/HUMIDIFYING AIR CONDITIONING UNIT SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DATA AIRE
KEY: E.C. = ELECTRICAL CONTRACTOR, H.C. = HVAC CONTRACTOR

UNIT DATA						FAN MOTOR		EVAPORATOR DATA					CONDENSER DATA					COMPRESSOR	INDOOR UNIT ELECTRICAL DATA					ELEC. REHEAT DATA	HUMIDIFIER DATA		COMPONENT PROVIDED BY		REMARKS
TAG	LOCATION	MODEL	FILTER % EFF.	E.S.P. IN. WG.	CFM	NO	HP	TOTAL MBH	SENSIBLE MBH	E.A.T. DB/WB °F	L.A.T. DB/WB °F	REFRIG.	AMBIENT OPERATION °F	TAG	F.L.A.	VOLTS	PHASE	NUMBER	F.L.A.	MCA	MFCB	VOLTS	PHASE	KW	TYPE	CAPACITY LBS/HR	H.C.	E.C.	
AH2	HUNG	DAPA-0412-CO	MERV 8	0.50	1,600	1	1.0	48.6	41.0	75.0/61.0	51.1/49.6	410A	95.0	ACCU3	3.6	208	1	1	39.5	48.1	70	208	1	6.0	STM. GEN.	5.0	A,J,H	-	5/8" LIQUID PIPE CONNECTION, 1-1/8" HOT GAS PIPE CONNECTION, 3/4" CONDENSATE PIPE CONNECTION, 1/4" HUMIDIFIER PIPE CONNECTION.

CODED NOTES:
A. DISCONNECT SWITCH
B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH
C. CONTROL PANEL
D. LINE VOLTAGE PANEL
E. REDUCED VOLTAGE STARTER
F. TWO SPEED STARTERS
G. VARIABLE FREQUENCY DRIVE
H. EMERGENCY POWER
I. PLUG-IN UNIT
J. THERMOSTAT/HUMIDISTAT

ELECTRIC BASEBOARD SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON VULCAN

UNIT DATA				CABINET		ELEMENT		HEATING ELEMENT			INDICATED COMPONENTS PROVIDED BY		REMARKS
TAG	LOCATION	MODEL	BTU/ HR/FT	HIGH	DEEP	ROW	SIZE	WATTS /LF	VOLTS	PHASE	DIV 23	DIV 26	
BB1	FLOOR	LB-5150	512	7"	5"	1	5'	150	208	1	A	-	FRONT INTAKE, TOP DISCHARGE.
BB2	FLOOR	LB-5500	1705	7"	5"	1	5'	500	208	1	A	-	FRONT INTAKE, TOP DISCHARGE.
BB3	FLOOR	LB-4150	512	7"	5"	1	4'	150	208	1	A	-	FRONT INTAKE, TOP DISCHARGE.
BB4	FLOOR	LB-6150	512	7"	5"	1	6'	150	208	1	A	-	FRONT INTAKE, TOP DISCHARGE.
BB5	FLOOR	LB-10150	512	7"	5"	1	10'	150	208	1	A	-	FRONT INTAKE, TOP DISCHARGE.

CODED NOTES:
A. DISCONNECT SWITCH
B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH
C. CONTROL PANEL
D. LINE VOLTAGE PANEL
E. REDUCED VOLTAGE STARTER
E. TWO SPEED STARTERS
F. VARIABLE FREQUENCY DRIVE
G. EMERGENCY POWER
H. PLUG-IN UNIT
I. THERMOSTAT
J. WALL SWITCH

AIR COOLED CONDENSING UNIT SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

UNIT DATA				CONDENSER DATA			ELECTRICAL DATA				INDICATED COMPONENTS PROVIDED BY		REMARKS
TAG	LOCATION	MODEL	CAPACITY TONS	E.A.T. °F	REFRIGERANT TYPE	NO. OF FANS	MCA	MOCP	VOLTS	PHASE	DIV 23	DIV 26	
ACCU1	PARKING LOT	REYQ384AAYDA	32	95	410A	2 EACH	62.4,62.4	70,70	208	3	-	A	HEAT RECOVERY VRV, SERVES ALL FAN COIL UNITS.
ACCU2	PARKING LOT	(2)RXYQ120XATJA	(2)10	95	410A	2 EACH	36.3,36.3	45,45	208	3	-	A	HEAT PUMP, SERVES DOAS UNIT (AH1).
ACCU4	SOUTHWEST CORNER OF SITE	RZQ18TAVJUA	1.5	95	410A	-	16.5	20	208	1	-	A	SERVES AC1
ACCU5	SOUTHWEST CORNER OF SITE	RZQ18TAVJUA	1.5	95	410A	-	16.5	20	208	1	-	A	SERVES AC2

CODED NOTES:
A. DISCONNECT SWITCH
B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH
C. CONTROL PANEL
D. LINE VOLTAGE PANEL
E. REDUCED VOLTAGE STARTER
F. TWO SPEED STARTERS
G. VARIABLE FREQUENCY DRIVE
H. EMERGENCY POWER

VRF INDOOR UNIT SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

UNIT DATA					CAPACITY	HEATING CAPACITY BTUH	ELECTRICAL DATA		REMARKS
TAG	AREA SERVED	MODEL	CFM	OA CFM	TOTAL BTUH		VOLTS	PHASE	
FC1	NORTH GALLERY, WEST SIDE (101) LOBBY (103)	FXMQ24PBVJU	688	360	22,716	28,014	208-230	1	-
FC2	SOUTH GALLERY, WEST SIDE (109) LOBBY (103)	FXMQ30PBVJU	1,094	435	28,408	35,247	208-230	1	-
FC3	VESTIBULE (107)	FXMQ18PBVJU	635	135	18,000	20,000	208-230	1	-
FC4	SEE PLANS	FXAQ12PVJU	290	15	11,342	14,000	208-230	1	-
FC5	RECEPTION (104)	FXMQ09PBVJU	317	135	9,500	10,500	208-230	1	-
FC6	NORTH GALLERY, EAST SIDE (101)	FXAQ18PVJU	742	160	17,032	20,700	208-230	1	-
FC7	SOUTH GALLERY, EAST SIDE (109)	FXMQ24PBVJU	777	185	22,710	28,014	208-230	1	-
FC8	EAST SIDE OF SECOND FLOOR	FXMQ96MVJU	2,543	790	90,889	112,000	208-230	1	-
FC9	SOUTH GALLERY, WEST SIDE (206)	FXMQ48PBVJU	1,377	380	45,471	55,993	208-230	1	-
FC10	NORTH GALLERY, WEST SIDE (205)	FXMQ36PBVJU	1,130	290	34,082	41,492	208-230	1	-
FC11	OFFICE (203), MEN'S RR (105)	FXFQ07TVJU	420	15	7,110	8,803	208-230	1	-
FC12	CONFERENCE ROOM	FXMQ24PBVJU	688	125	22,716	28,014	208-230	1	-
FC13	ST1 - LEVEL 2	FXAQ09PVJU	280	15	8,994	11,100	208-230	1	-

ELECTRIC MAKE-UP AIR UNIT SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

UNIT DATA					PREHEATING COIL			COOLING COIL		REHEATING COIL			SUPPLY FAN MOTOR DATA					EXHAUST FAN MOTOR DATA					FILTERS	REMARKS
TAG	LOCATION	MODEL	CFM	CAPACITY (MBH)	KW	VOLTS	PHASE	E.A.T.	L.A.T.	KW	VOLTS	PHASE	T.S.P./ E.S.P.	HP	RPM	VOLTS	PHASE	T.S.P./ E.S.P.	HP	RPM	VOLTS	PHASE	MERV	
AH1	BASEMENT MECH RM	CAC010G VCM	4,000	228.8	20	208	3	83.0/67.9	48.7/48.5	20	208	3	3.96 / 1.50	2 @ 5	2,535	208	3	2.14 / 1.00	2 @ 2.5	2,815	208	3	4" @ 14	SERVED BY ACCU2

REGISTER & DIFFUSER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON TITUS
NECK SIZES ARE GIVEN ON DRAWINGS.

TAG	LOCATION	MODEL	FUNCTION	FACE TYPE	FRAME TYPE	MATERIAL	FINISH	DAMPER	N.C. MAX	REMARKS
D1	SEE PLANS	OMNI	SUPPLY	24X24 SQ PLAQUE	LAY-IN	STEEL	WHITE	IN DUCT	25	24" X 24" SQ. PLAQUE, UNLESS NOTED OTHERWISE.
R1	SEE PLANS	350RL	RETURN	3/4" LOUVERED 35° DEFLECTION	SURFACE	STEEL	WHITE	IN DUCT	25	
R3	SEE PLANS	300RL	SUPPLY	3/4" LOUVERED DOUBLE DEFL.	SURFACE	STEEL	WHITE	IN DUCT	25	
G1	SEE PLANS	50F	EXHAUST	1/2 X 1/2 X 1/2 GRID	LAY-IN	ALUM.	WHITE	IN DUCT	25	
LD1	SEE PLANS	ML-38	SUPPLY	6'-0" X 0'-6"	LAY-IN	STEEL	WHITE	IN DUCT	25	2 SLOT, 3/4" PER SLOT, 50 CFM PER LINEAR FOOT.

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	12" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

HVAC SCHEDULES

SHEET NO.
H5.01

FAN COIL UNIT SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

UNIT DATA				FAN DATA		COOLING COIL DATA							GENERAL INFORMATION	REMARKS
TAG	LOCATION	MODEL	CFM	VOLTS	PHASE	TOTAL MBH	SENSIBLE MBH	E.A.T. °F		L.A.T. °F		REFRIGERANT	FILTER	
								D.B.	W.B.	D.B.	W.B.	TYPE		
AC1	DATA/ ELECTRICAL	FAQ18TAVJU	500	208	1	18	13.7	80.0	67.0	54.6	55.6	410A	MERV8	SERVED BY ACCU3. MCA: 0.5, MOCP: 15.0, 208/1. 5/8" GAS PIPE CONNECTION, 3/8" LIQUID PIPE CONNECTION.
AC2	PUMP ROOM	FAQ18TAVJU	500	208	1	18	13.7	80.0	67.0	54.6	55.6	410A	MERV8	SERVED BY ACCU3. MCA: 0.5, MOCP: 15.0, 208/1. 5/8" GAS PIPE CONNECTION, 3/8" LIQUID PIPE CONNECTION.

HEAT RECOVERY DEVICE SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON DAIKIN

UNIT DATA						SUMMER OPERATION					WINTER OPERATION					REMARKS
TAG	LOCATION	TYPE	AIR SIDE	CFM	APD	E.A.T.		L.A.T.		RECOVERED MBH	E.A.T.		L.A.T.		RECOVERED MBH	
						DB	WB	DB	WB		DB	WB	DB	WB		
HR1	AH1	ENTHALPIC WHEEL	SUPPLY	4,000	.71	95	75	83	67.9	106.9	0	-1	40.2	33.8	225.9	VFD, ADJUSTABLE PURGE PLATE,1/2 HP MOTOR
			EXHAUST	3,000	.52	75	62	90.8	72.3		70	52.5	12.6	12.2		

ELECTRIC CABINET UNIT HEATER SCHEDULE

UNLESS OTHERWISE NOTED EQUIPMENT BASED ON KING

UNIT DATA				AIR DATA			HEATING ELEMENTS				MOTOR DATA			INDICATED COMPONENTS PROVIDED BY		REMARKS
TAG	LOCATION	MODEL	TYPE	CFM	E.A.T. °F	L.A.T. °F	NO.	TOTAL KW	VOLTS	PHASE	RPM	VOLTS	PHASE	DIV 23	DIV 26	
CUH1	SEE PLANS	LPW2040C	CEILING RECESSED	185	65	128	1	4	208	1	1300	208	1	A,J	-	-

INDICATED ELECTRICAL COMPONENTS:

A. DISCONNECT SWITCH
B. CONTROL PANEL WITH INTEGRAL DISCONNECT SWITCH
C. CONTROL PANEL
D. LINE VOLTAGE PANEL
E. REDUCED VOLTAGE STARTER
F. TWO SPEED STARTERS
G. VARIABLE FREQUENCY DRIVE
H. EMERGENCY POWER
I. PLUG-IN UNIT
J. THERMOSTAT
K. WALL SWITCH

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE
DRAWN BY:	KNE
CHECKED BY:	KNE
APPROVED BY:	---

JOB NUMBER:	DNR-210003
SCALE:	12" = 1'-0"
PERMIT DATE:	02/25/2022
DRAWING DATE:	02/25/2022

KORDA
KORDA, NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

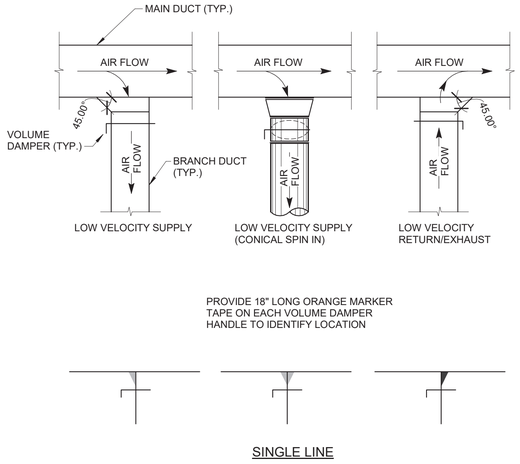
DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

REVISIONS
06.16.2022 - CONFORMED SET

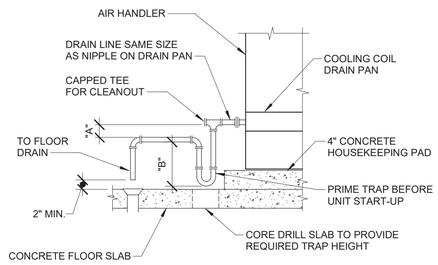
CONFORMED DOCUMENTS

HVAC SCHEDULES

SHEET NO.
H5.02

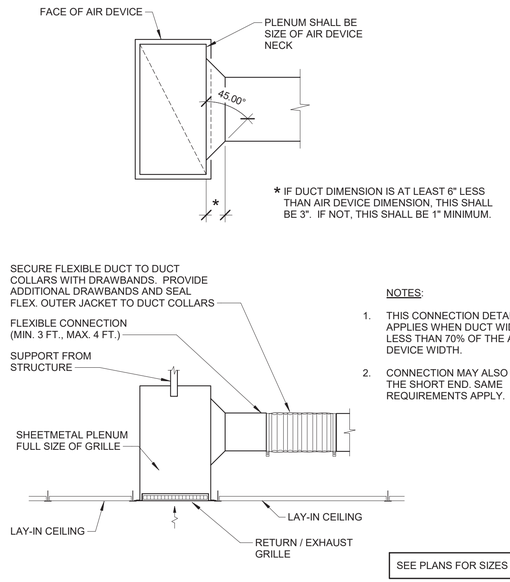


1 DETAIL
TYPICAL DUCT CONNECTIONS
N.T.S.

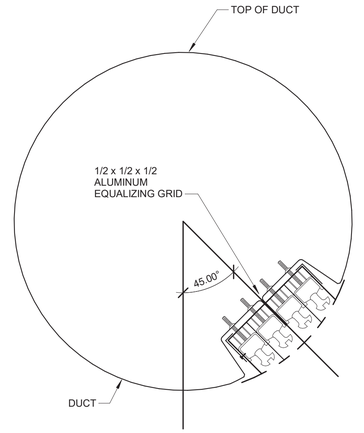


	A(IN)	B(IN)
DRAWTHRU COIL	FAN INLET STATIC	"A"/2+1
BLOWTHRU COIL	2" MIN	FAN DISCHARGE STATIC PLUS 1"

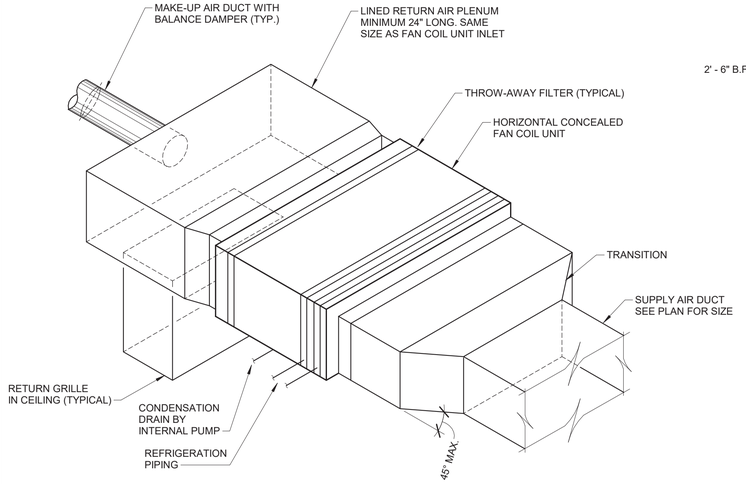
2 DETAIL
CONDENSATION DRAIN TRAP PIPING
N.T.S.



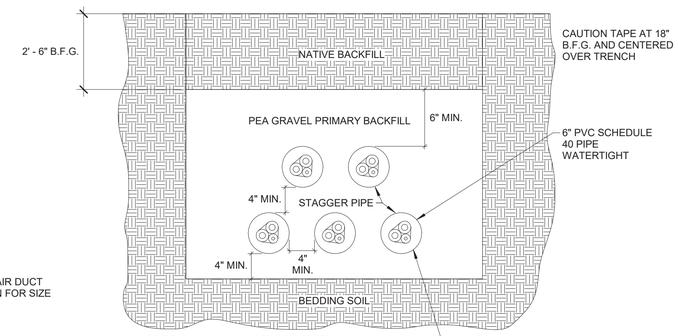
3 DETAIL
RETURN / EXHAUST GRILLE CONNECTION
N.T.S.



4 DETAIL
DIFFUSER DETAIL
N.T.S.

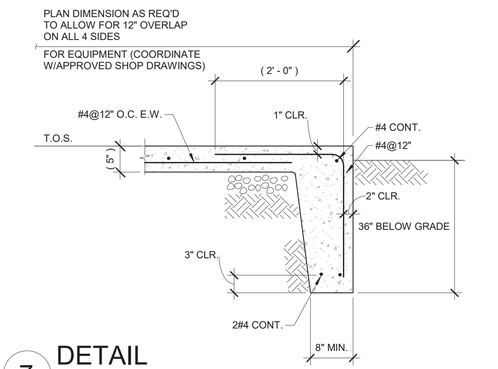


5 DETAIL
FAN COIL INSTALLATION
N.T.S.



- SEE PLANS FOR NUMBER OF SYSTEMS
- COORDINATE WITH OTHER UTILITIES PER CIVIL DRAWINGS
- AFTER THE PIPING IS INSTALLED IN THE TRENCH, A PARTIAL BACKFILL SHALL BE MADE AND A PRESSURE TEST SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURER'S PUBLISHED INSTRUCTIONS.
- AFTER SUCCESSFUL PRESSURE TESTING, FINAL BACKFILL OF SELECTED EARTH OR SAND SHALL BE HAND PLACED AND HAND TAMPED TO A MINIMUM OF 12" OVER THE TOP OF THE PIPE. THE REMAINDER OF THE BACKFILL SHALL BE FREE OF LARGE ROCKS OVER 6" IN DIAMETER.

6 DETAIL
REFRIGERANT PIPING TO BUILDING
N.T.S.



7 DETAIL
EQUIPMENT PAD -WITH TURNED DOWN EDGE
N.T.S.

REVISIONS
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

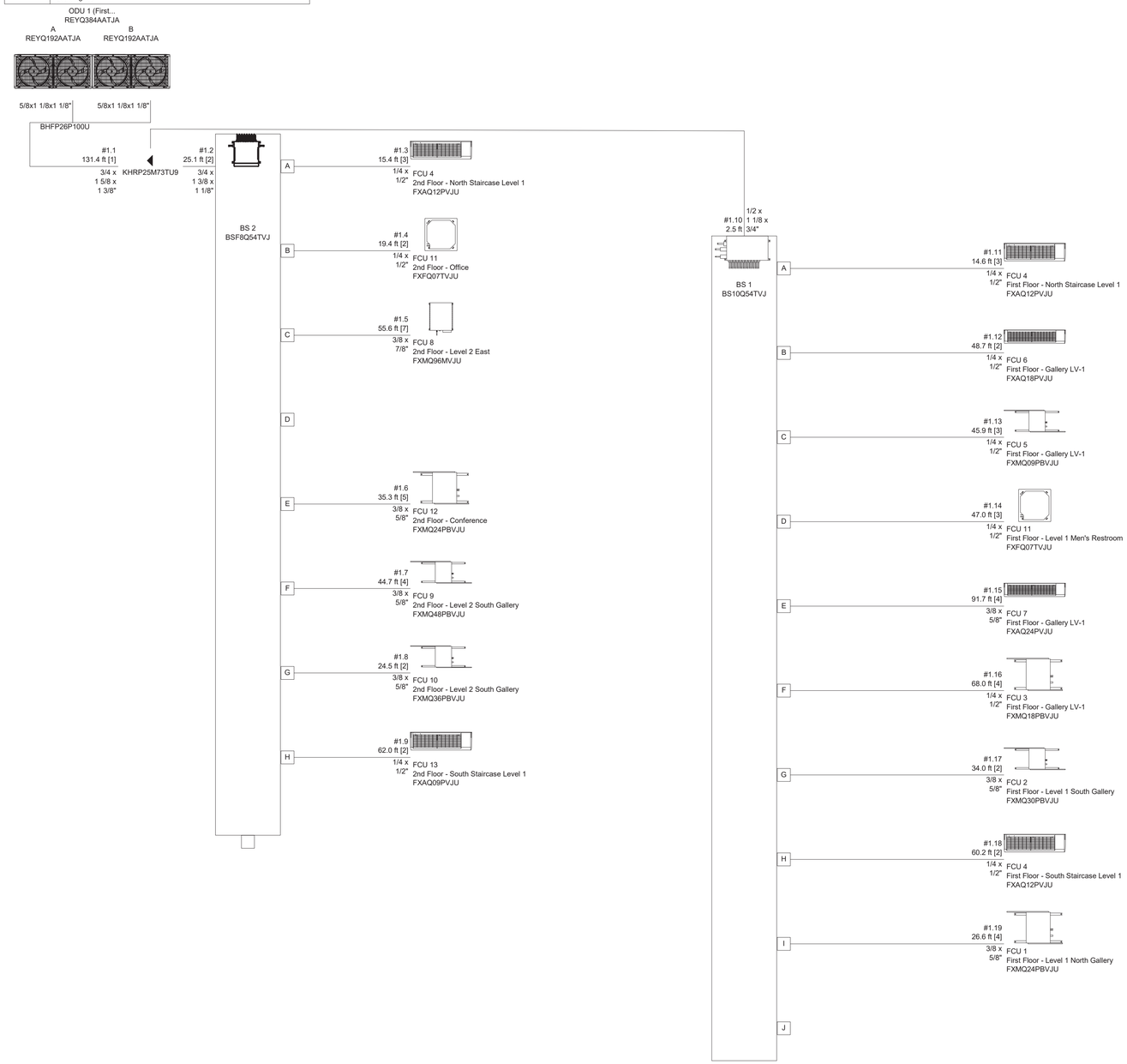
HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	As indicated
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

HVAC DETAILS

SHEET NO. **H6.01**

Client	USA
Project	ODNR Old Historic Town
Title	Piping schematics ODU 1 Air cooled heat recovery VRV EMERION REYQ384AATJA
Date	03/02/2022
Drawing No	



KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Author
DESIGNED BY:	Designer
CHECKED BY:	Checker
PROJECT NUMBER:	2021-0003

REVISIONS

06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

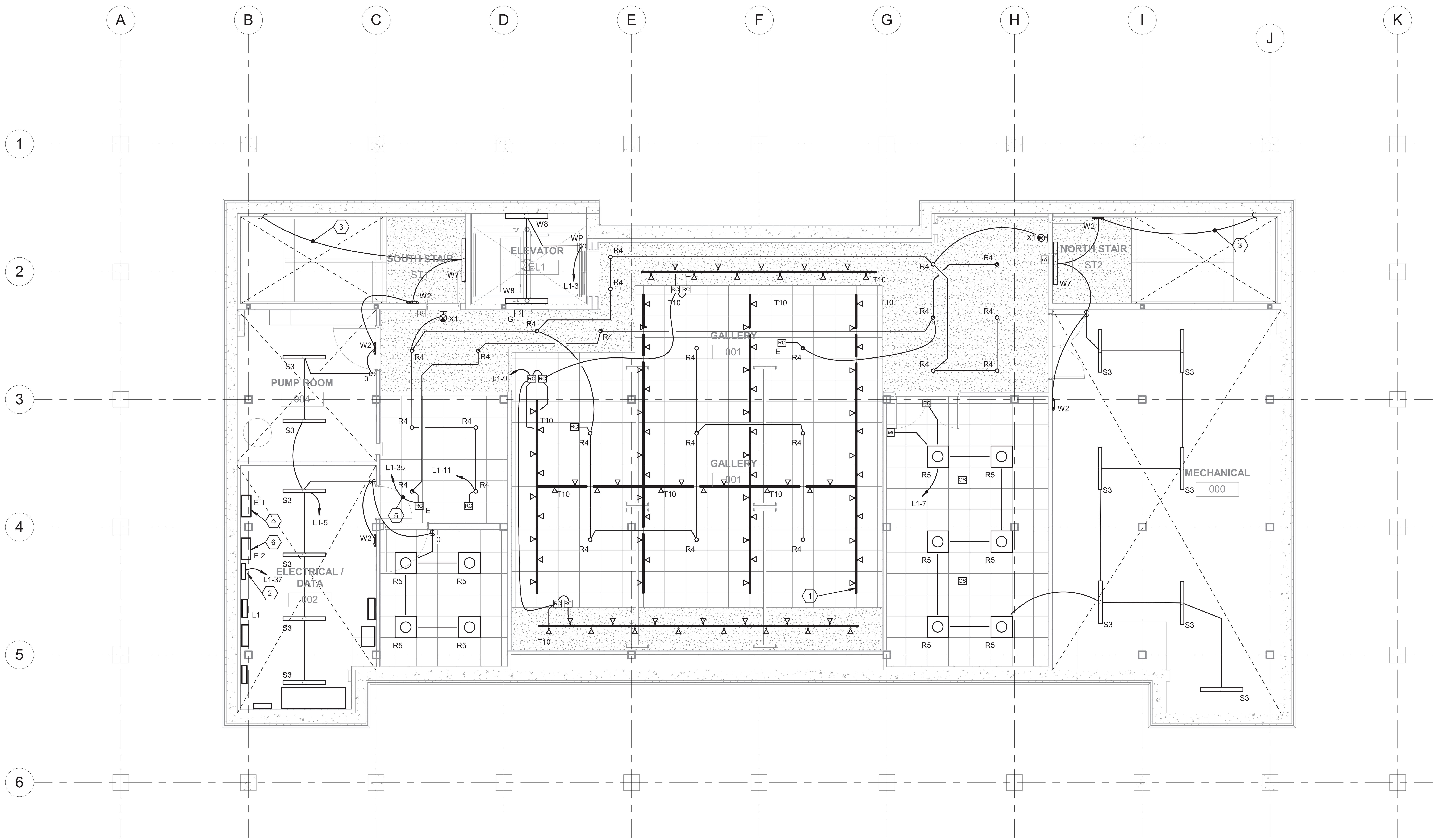
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:.	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	03/02/22

SYSTEM DIAGRAM

SHEET NO.
H7.01



1 FLOOR PLAN

BASEMENT LIGHTING

SCALE: 3/16" = 1'-0"

<u>GENERAL NOTES</u>

1. PROVIDE TRACK CONNECTIONS WHERE NEEDED PER LAYOUT SHOWN.
2. ALL LOW VOLTAGE LIGHTING CONTROLS TO BE NETWORKED TOGETHER AND BACK TO CONTROLLER LOCATED IN MAIN ELECTRICAL ROOM. (EXCLUDING RESTROOM LIGHTING CONTROLS).
3. PROVIDE:
   1. LIGHTING CONTROLS PRE-PROGRAMMING MEETING WITH LIGHTING CONTROL PROGRAMMER, OWNER, ARCHITECT AND EENGINEER TO DETERMINE HOW THE LIGHTING CONTROLS SHOULD BE PROGRAMMED.
   2. LIGHTING CONTROLS MEETING ON SITE WITH LIGHTING CONTROL PROGRAMMER, OWNER, ARCHITECT AND ENGINEER ONCE LIGHTING CONTROLS HAVE BEEN PROGRAMMED AND LIGHTS INSTALLED, SUCH THAT LIGHTING CONTROL PROGRAMMING CAN BE REVEWED AND ADJUSTED.

<u>CODED NOTES</u>

1. PROVIDE STRAIGHT, 90 DEGREE, "T" AND "X" TRACK CONNECTORS AS NEEDED TO CREATE PATTERN SHOWN. (TYPICAL TYPE T10).
2. LIGHTING CONTROL PANEL.
3. EXTEND CIRCUIT TO LIGHTING ON LANDINGS ABOVE.
4. PROVIDE 2 KW EMERGENCY LIGHTING INVERTER, EL1, W/ 4 CIRCUIT BREAKERS SUCH THAT 4 SEPARATE CIRCUITS CAN EXTEND THROUGH AND BE SUPPLIED EMERGENCY POWER. TIE EMERGENCY LIGHTING ROOM CONTROLLERS (RC W/ SUBSCRIPT "E") TO INVERTER FOR CONTROL INTEGRATION.
5. EXTEND CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER EL1.
6. PROVIDE 2 KW EMERGENCY LIGHTING INVERTER, EL2, W/ 4 CIRCUIT BREAKERS SUCH THAT 4 SEPARATE CIRCUITS CAN EXTEND THROUGH AND BE SUPPLIED EMERGENCY POWER. TIE EMERGENCY LIGHTING ROOM CONTROLLERS (RC W/ SUBSCRIPT "E") TO INVERTER FOR CONTROL INTEGRATION.

REVISIONS

02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO STANLEY J. KMONK E-51379 REGISTERED PROFESSIONAL ENGINEER

2/25/2022

KORDA

KORDA NEMETH ENGINEERING

1650 WATERMARK DRIVE SUITE 200 COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss

DESIGNED BY: Prairie S. Gallina

CHECKED BY: Checker

PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING Ohio Department of Natural Resources

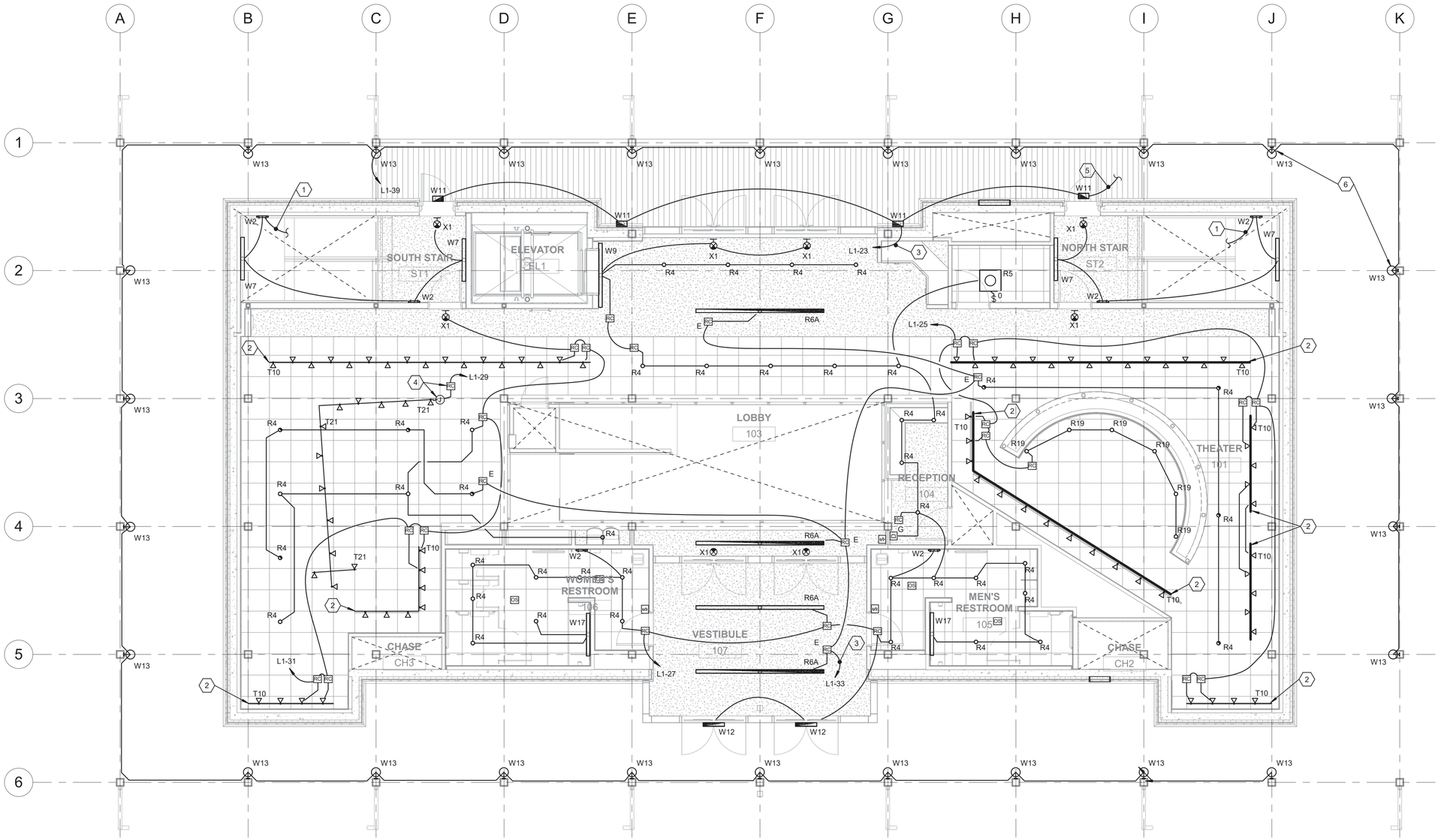
HISTORIC OLDTOWN NEW INTERPRETIVE CENTER 1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

BASEMENT LIGHTING PLAN

SHEET NO.

E2.00



1 FLOOR PLAN

FIRST FLOOR LIGHTING

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

GENERAL NOTES

1. PROVIDE TRACK CONNECTIONS WHERE NEEDED PER LAYOUT SWOWN, INCLUDING JOINTS, CORNERS ETC.
2. ALL LOW VOLTAGE LIGHTING CONTROLS TO BE NETWORKED TOGETHER AND BACK TO CONTROLLER LOCATED IN MAIN ELECTRICAL ROOM. (EXCLUDING RESTROOM LIGHTING CONTROLS)

CODED NOTES

1. EXTEND TO STAIR LIGHTING IN BASEMENT FOR POWER, AND UP TO 2ND FLOOR.
2. PROVIDE CURRENT LIMITING FUSE FOR TRACK SIZED TO APPROXIMATELY 2 AMP/ 12 LINEAR FEET. CURRENT LIMITING FUSES TO ALL BE INSTALLED ABOVE ACCESSIBLE CEILING.
3. EXTEND CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER EL1 IN BASEMENT FOR EMERGENCY POWER.
4. PROVIDE BRANCH CIRCUIT AND TRIAC LIGHTING CONTROL RELAY TO LIVING STREAM LIGHTING BY OTHERS.
5. EXTEND CIRCUIT TO EXTERIOR BUILDING MOUNTED LIGHTING ON 2ND FLOOR.
6. RUN SURFACE-MOUNTED CONDUIT ALONG HORIZONTAL BEAM BETWEEN COLUMNS TO FEED EACH TYPE W13 SCONCE. W13 TO BE MOUNTED IN LINE WITH THE HORIZONTAL BEAM. (TYPICAL).

REVISIONS	
02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. WYMARK
E-81379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

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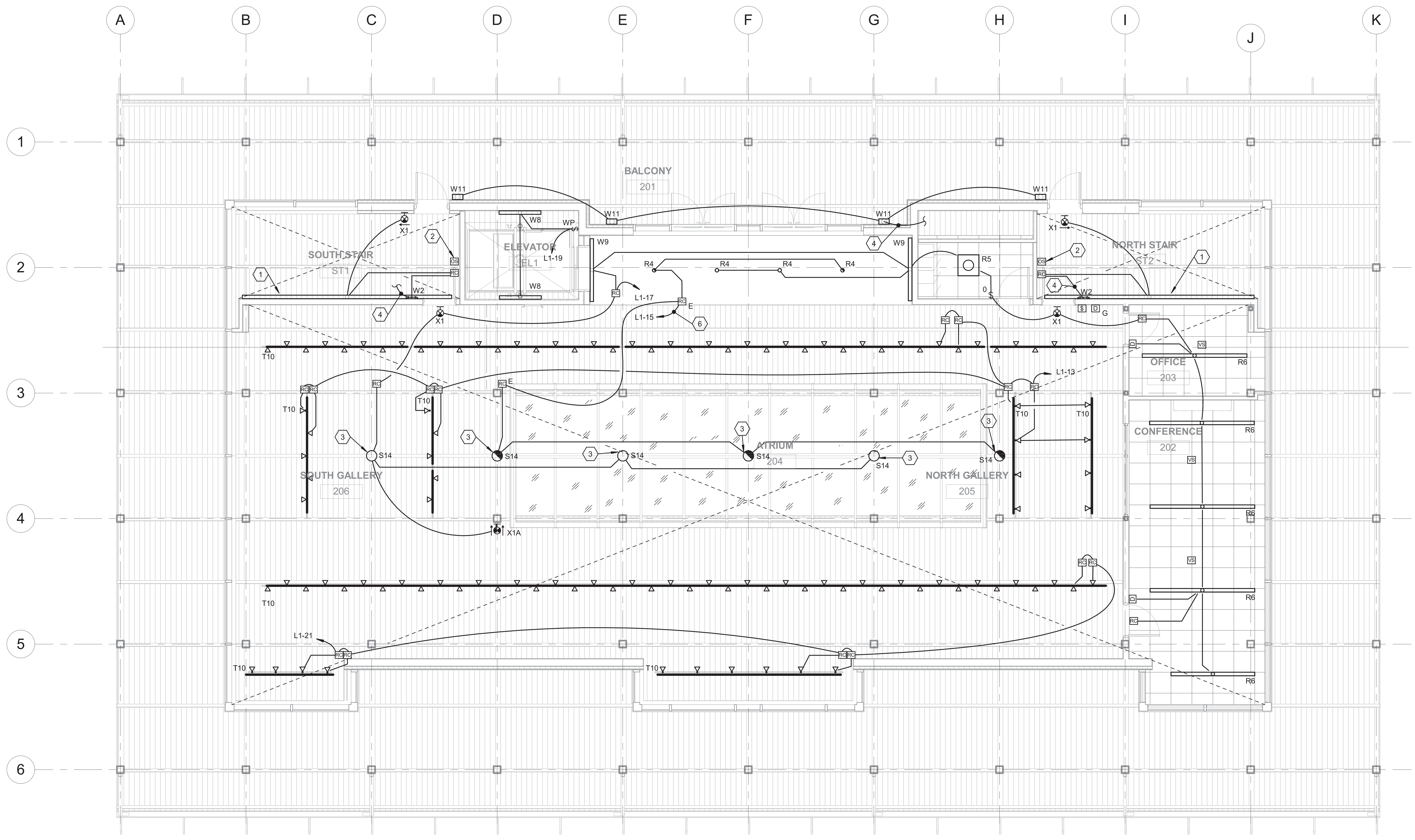
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

FIRST FLOOR LIGHTING PLAN

SHEET NO. **E2.01**



1 FLOOR PLAN
SECOND FLOOR LIGHTING

SCALE: 3/16" = 1'-0"

GENERAL NOTES

1. PROVIDE TRACK CONNECTIONS WHERE NEEDED PER LAYOUT SWOWN.
2. ALL LOW VOLTAGE LIGHTING CONTROLS TO BE NETWORKED TOGETHER AND BACK TO CONTROLLER LOCATED IN MAIN ELECTRICAL ROOM. (EXCLUDING RESTROOM LIGHTING CONTROLS)

CODED NOTES

1. MOUNT AT 14 FEET AFF TO BOTTOM OF FIXTURE (TYPE W18). W18 TO BE ON AT 50% WHEN UNOCCUPIED AND 100% WHEN OCCUPIED.
2. HIGH CEILING TYPE OCCUPANCY SENSOR FOR HIGH / LOW STAIR LIGHTING CONTROL.
3. MOUNT AT PEAK WITH 2 FOOT STEM.
4. EXTEND POWER FROM LIGHTING ON LANDINGS BELOW.
5. EXTEND POWER FROM FIRST FLOOR EXTERIOR LIGHTING. SEE E2.01.
6. EXTEND CIRCUIT THROUGH EMERGENCY LIGHTING INVERTER EI1 IN BASEMENT FOR EMERGENCY POWER.

REVISIONS

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03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

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Ohio Department of Natural Resources

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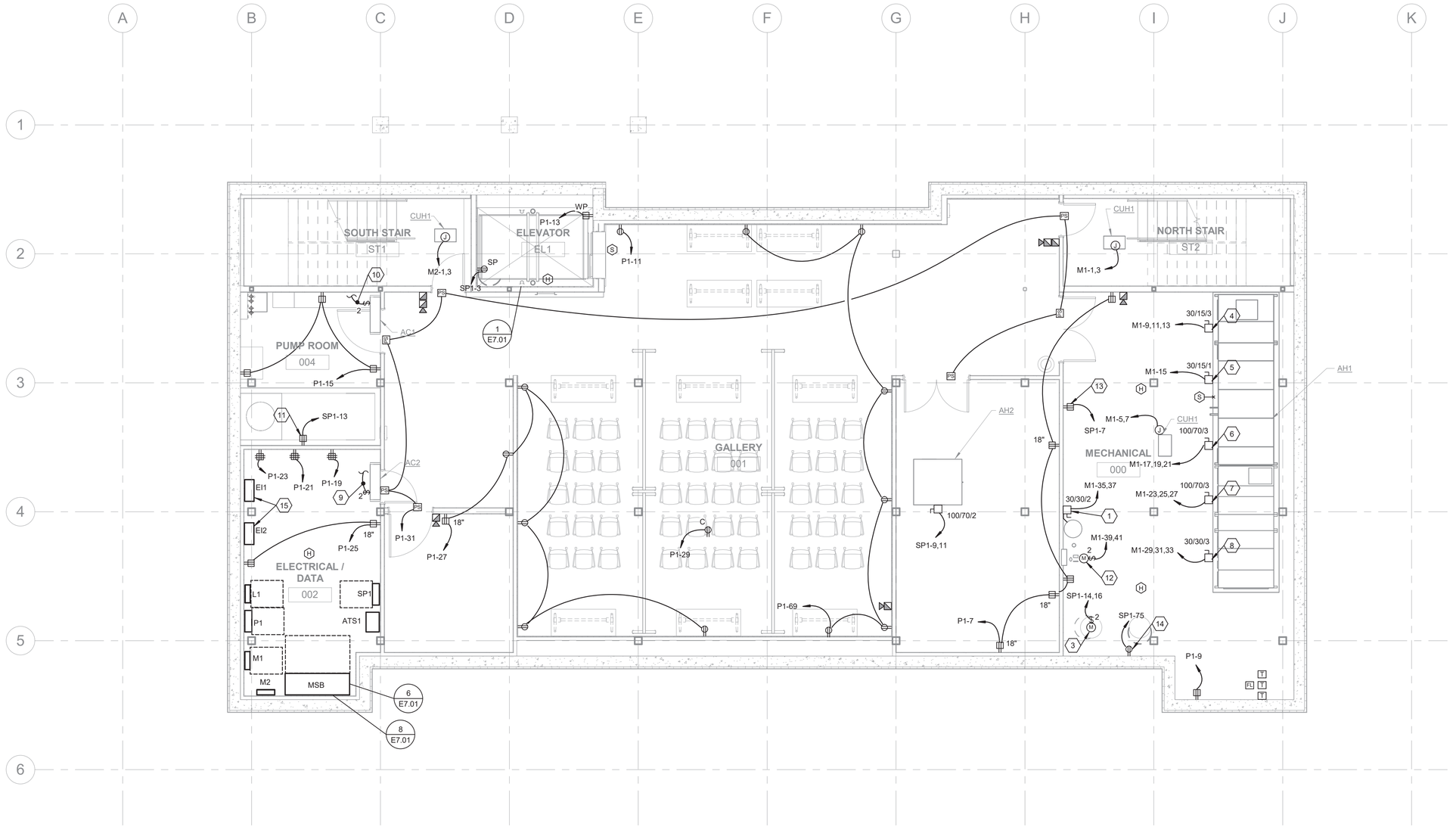
SECOND FLOOR LIGHTING PLAN

SHEET NO.
E2.02



GENERAL NOTES

1. COORDINATE POWER LOCATION FOR MECHANICAL EQUIPMENT WITH DIVISION 23 CONTRACTOR IN FIELD.
2. ALL OUTLETS SHALL BE TAMPER RESISTANT TYPE (EXCLUDING THOSE IN MECHANICAL OR ELECTRICAL ROOM AND IN ELEVATOR HOISTWAY/PIT).

CODED NOTES

1. ELECTRIC WATER HEATER, EWH1 (4.5 KW).
2. 208V, 3 Ø, 15 KW HUMIDIFIER.
3. SUMP PUMP, SP2, COORDINATE LOCATION.
4. AH1 RETURN EXHAUST FAN ARRAY (2.5 HP, 11.5 MCA).
5. AH1 HEAT WHEEL MOTOR (0.5 HP).
6. AH1 ELECTRIC PREHEATER (20KW).
7. AH1 ELECTRIC REHEATER (20 KW).
8. AH1 SUPPLY FAN ARRAY (4.4 HP, 22.6 MCA).
9. EXTEND 208V, 1Ø POWER TO AC1 (0.5 MCA) FROM ACCU4 ON SITE. SEE E0.01.
10. EXTEND 208V, 1Ø POWER TO AC2 (0.5 MCA) FROM ACCU5 ON SITE. SEE E0.01.
11. OUTLET WITH DEDICATED CIRCUIT FOR SELF-PRIMING PUMP (BY OTHERS) TO SERVE LIVING STREAM ON FIRST FLOOR. COORDINATE LOCATION.
12. RCP1 (1/6 HP).
13. OUTLET FOR BAS PANEL (BY DIV. 23). COORDINATE LOCATION.
14. OUTLET FOR SEWAGE EJECTOR, SE1. COORDINATE LOCATION.
15. EMERGENCY LIGHTING INVERTER. REFER TO E2.00 FOR MORE INFORMATION.

1 FLOOR PLAN

BASEMENT POWER

SCALE: 3/16" = 1'-0"

0" 1' 2" 6'

N

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STANLEY J. KMONK
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REGISTERED PROFESSIONAL ENGINEER
2/25/2022

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1650 WATERMARK DRIVE
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DESIGNED BY: Prairie S. Gallina
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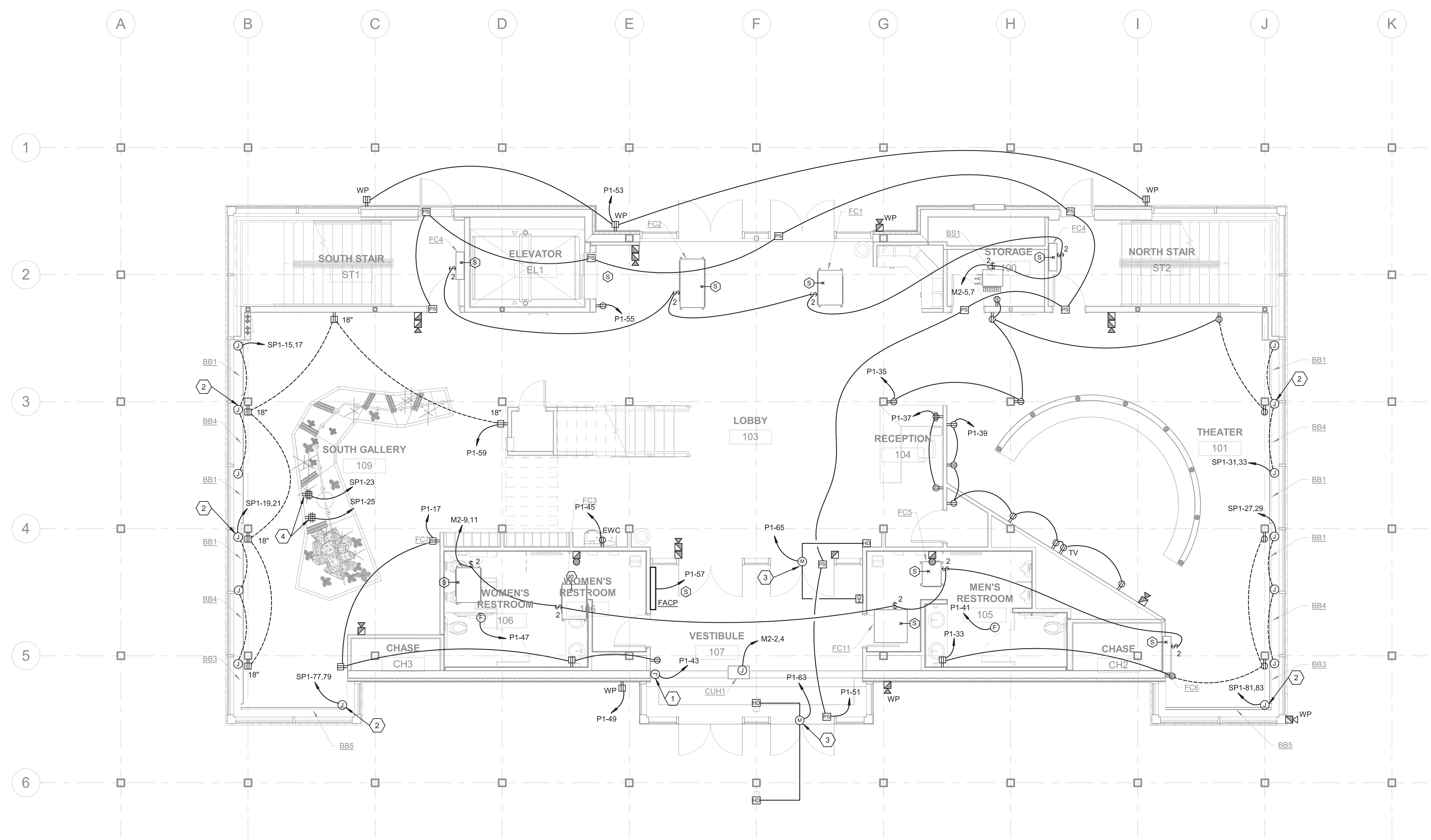
BASEMENT POWER PLAN

SHEET NO. **E3.00**



1 FLOOR PLAN

FIRST FLOOR POWER

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

GENERAL NOTES

1. COORDINATE POWER LOCATION FOR MECHANICAL EQUIPMENT WITH DIVISION 23 CONTRACTOR IN FIELD.
2. ALL OUTLETS SHALL BE TAMPER RESISTANT TYPE (EXCLUDING THOSE IN MECHANICAL OR ELECTRICAL ROOM AND IN ELEVATOR HOISTWAY/PIT).

CODED NOTES

1. PROVIDE 120V BRANCH CIRCUIT TO 2-WAY EMERGENCY COMMUNICATIONS COMMAND CENTER. PROGRAM DOOR(S) IN ACCESS CONTROL SYSTEM TO BE LOCKED VIA TIME-OF-DAY SCHEDULE.
2. ELECTRIC BASEBOARD HEATERS (TYPICAL). PROVIDE 208V, 1 PHASE TO EBB_. (TYPICAL) INTEGRAL DISCONNECT BY DIV. 23.
3. MOTORIZED DOOR, 120V. COORDINATE PUSH-PLATE LOCATIONS WITH ARCHITECT.
4. INSTALL INSIDE CASEWORK BY OTHERS.

REVISIONS	
02.25.2022	BID DOCUMENTS
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03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO STANLEY J. KMONK E-61379 REGISTERED PROFESSIONAL ENGINEER 2/25/2022

KORDA

KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

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FIRST FLOOR POWER PLAN

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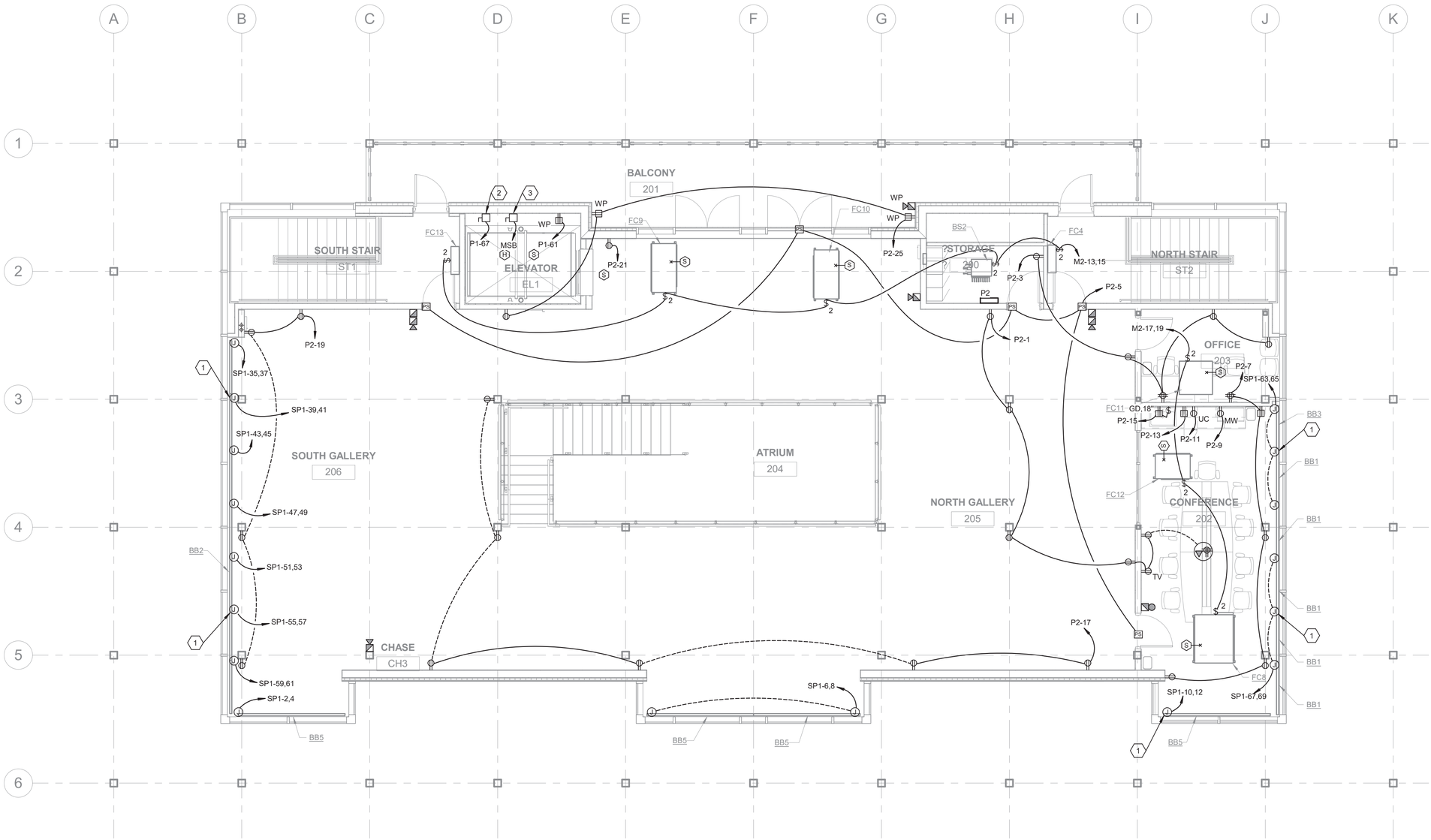
E3.01



GENERAL NOTES

1. COORDINATE POWER LOCATION FOR MECHANICAL EQUIPMENT WITH DIVISION 23 CONTRACTOR IN FIELD.
2. ALL OUTLETS SHALL BE TAMPER RESISTANT TYPE (EXCLUDING THOSE IN MECHANICAL OR ELECTRICAL ROOM AND IN ELEVATOR HOISTWAY/PIT).

CODED NOTES

1. ELECTRIC BASEBOARD HEATERS (TYPICAL). PROVIDE 208V, 1 PHASE TO EB_. (TYPICAL) INTEGRAL DISCONNECT BY DIV. 23.
2. ELEVATOR CAB LIGHTING DISCONNECT SWITCH. (30/15/1)
3. ELEVATOR SHUNT TRIP DISCONNECT SWITCH. (SEE ONE LINE ON E6.01 FOR SIZING).

1 FLOOR PLAN

SECOND FLOOR POWER

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

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STANLEY J. MONK
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2/25/2022

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SECOND FLOOR POWER PLAN

SHEET NO.
E3.02

LUMINAIRE SCHEDULE

B: BOLLARD C: CEILING CV: COVE G: GROUND P: POLE R: RECESSED S: SUSPENDED T: TRACK UC: UNDERCABINET W: WALL X: UNIVERSAL

PARTIAL MODEL NUMBERS MAY BE SHOWN AND ARE INTENDED TO INDICATE ACCEPTABLE MANUFACTURER'S PRODUCT LINE. EXACT MODEL NUMBERS MEETING THE FIXTURE DESCRIPTION SHALL BE OBTAINED FROM THE MANUFACTURER'S AGENTS. ALL FIXTURES MAY NOT BE USED - REFER TO PLANS. DIMENSIONS MAY VARY. REFER TO THE SPECIFICATIONS SECTIONS 26 51 14 FOR ADDITIONAL REQUIREMENTS. REFER TO DRAWINGS FOR FIXTURES CIRCUITED AND CONTROL.

TAG	MANUFACTURER	SERIES	MODEL	DIMENSIONS (W x L x D)	DESCRIPTION	SOURCE	VOLTAGE	WATTAGE	COLOR TEMP	LUMENS	DIMMING	MATERIAL	MOUNTING	LENS	FINISH/TRIM	REFLECTOR FINISH/ DISTRIBUTION	OPTIONS	APPROVED MANUFACTURERS
X1	LITHONIA	EDG	1	13" X 3" X 11-1/8"	EXIT SIGN - SINGLE FACE	LED	UNV	3 W	GREEN	-	FIXED OUTPUT	ALUMINUM/ ACRYLIC	UNIVERSAL	EDGE-LIT ACRYLIC	BRUSHED ALUMINUM	GREEN ON MIRROR	PROVIDE W/ INTEGRAL NI-CAD BATTERY W/ MINIMUM 90 MINUTES CAPACITY AND MAX 24 HR RECHARGE DURATION. SELF-DIAGNOSTICS. UNIVERSAL FIELD-SELECTED CHEVRONS	DUAL LITE LES, EXITRONIX S900, LUMAX SELX
X1A	LITHONIA	EDG	2	13-5/8" X 5-1/5" X 11-1/8"	EXIT SIGN - DOUBLE FACE	LED	UNV	3 W	GREEN	-	FIXED OUTPUT	ALUMINUM/ ACRYLIC	UNIVERSAL	EDGE-LIT ACRYLIC	BRUSHED ALUMINUM	GREEN ON MIRROR	PROVIDE W/ INTEGRAL NI-CAD BATTERY W/ MINIMUM 90 MINUTES CAPACITY AND MAX 24 HR RECHARGE DURATION. SELF-DIAGNOSTICS. UNIVERSAL FIELD-SELECTED CHEVRONS	DUAL LITE LES, EXITRONIX S900, LUMAX SELX
W2	LITHONIA	ELM6L	LTP	13.37" X 5.93" X 3.7"	EMERGENCY WALL PACK	LED	UNV	10.6 W	5000K	1100 LUMEN /HEAD	FIXED OUTPUT	THERMOPLASTIC	WALL	CLEAR ACRYLIC	TBD	-	INTEGRAL 90 MINUTE+ BATTERY AND SELF-DIAGNOSTICS. 24 HOUR MAX RECHARGE DURATION.	COMPASS CU2HL, EXITRONIX NFT, SURE-LITES SEL60
S3	LITHONIA	CSS	L48	2.62" X 2.22" X 48"	SUSPENDED LINEAR STRIP	LED	UNV	44 W	3500K	5000 LUMEN	0-10V	STEEL	SUSPENDED - CHAIN	DIFFUSE ACRYLIC	WHITE	-		COLUMBIA CSL, DAYBRITE FSS, METALUX SNLED
R4	GOTHAM	EVO	EVO4	4" DIAM X 6-5/8" DEEP	4" DOWNLIGHT	LED	UNV	13.7 W	3000K	1500 LUMEN	0-10V, 1%	STEEL	RECESSED	OPEN	BLACK PAINTED FLANGE	CLEAR, SEMI-SPECULAR, MEDIUM	90+ CRI.	PRESCOLITE LFR-4RD, LIGHTOLIER P4R, PORTFOLIO LD4B
R5	LITHONIA	CPX	2X2	2' X 2' X 1.7"	2X2 FLAT PANEL	LED	UNV	40 W	3000K	5000 LUMEN	0-10V	STEEL	GRID RECESSED	ACRYLIC	WHITE	-		ILP VPAN22, ALS LP
R6	AXIS LIGHTING	BEAM 3	BMRLED	3-1/2" X 3-15/16" X (LENGTH SHOWN)	RECESSED LINEAR	LED	UNV	9.7 W/FT	3000K	1000 LM/FT	0-10V, 1%	EXTRUDED ALUMINUM	GRID RECESSED	FLUSH FROSTED ACRYLIC	TBD	-	90+ CRI	MARK LIGHTING SLOT 2, ALW LIGHTPLANE 2, PINNACLE EDGE EV3D, NEO-RAY DEFINE 3
R6A	AXIS LIGHTING	BEAM 3	BMRLED	3-1/2" X 3-15/16" X (LENGTH SHOWN)	RECESSED LINEAR	LED	UNV	9.7 W/FT	3000K	1000 LM/FT	0-10V, 1%	EXTRUDED ALUMINUM	HARD CEILING RECESSED	FLUSH FROSTED ACRYLIC	TBD	-	90+ CRI, PROVIDE DRYWALL FLANGE FOR INSTALL IN GYPSUM CEILING.	MARK LIGHTING SLOT 2, ALW LIGHTPLANE 2, PINNACLE EDGE EV3D, NEO-RAY DEFINE 3
W7	PINNACLE	EDGE 2"	EX4DI	2" X 5.25" X 4'	LINEAR STAIRWELL LIGHT	LED	UNV	7.9 W/FT	3000K	1000 LM/FT	0-10V	EXTRUDED ALUMINUM	WALL	FLUSH ACRYLIC	TBD	ASYMMETRIC DN & UP	INTEGRAL HIGH/LOW OCCUPANCY SENSOR FOR STAIRWELL TO DIM TO 50% WHEN UNOCCUPIED. ASYMMETRIC AIMED AWAY FROM WALL.	ALW HBEAM 2, LUMENWERX VIA2, MARK LIGHTING SLOT 2
W8	DAY-BRITE	DWAE	-	50" L X 7" W X 5" D	VAPORTIGHT	LED	UNV	46 W	3000K	5000 LUMEN	FIXED OUTPUT	POLYESTER	WALL	ACRYLIC	WHITE	-	SEALED VAPORTIGHT	ILP WTZ, METALUX 4VT3
W9	AXIS LIGHTING	BEAM 3	TB3WDILED	3-3/8" X 4-1/2" X 6'	WALL LINEAR - DIRECT/INDIRECT	LED	UNV	6.8 W/FT	3000K	400 DN/ 400 UP LM/FT	0-10V	EXTRUDED ALUMINUM	WALL	D- FLUSH ACRYLIC, I - SURROUNDLITE ASYMMETRIC	TBD	D - STANDARD, I - ASYMMETRIC	90+ CRI	MARK LIGHTING SLOT 2, ALW HBEAM 2, PINNACLE EDGE EX3DI, NEO-RAY DEFINE 3
T10 TRACK	JUNO	TU SERIES	TRAC-MASTER - 2 CKT	1-3/8" X 13/16" X (LENGTH SHOWN)	TRACK		120V	-		-		EXTRUDED ALUMINUM	SEE OPTIONS	-	BLACK	-	PROVIDE CURRENT LIMITING FUSES AS SHOWN ON PLANS. SURFACE MOUNTED ON BASEMENT AND 1ST FLOOR. SUSPENDED ON 2ND FLOOR.	SENSO LIGHTING 2 PHASE SURFACE TRACK, AMERLUX TEK GLOBAL TRACK, HALO 2 CIRCUIT TRAC L64_
T10 HEAD	JUNO	T382L	G2	2-1/2" DIAM. X 5-3/4"	TRACK HEAD	LED	120V	17 W/ HEAD	3000K	1500 LUMEN	TRIAC DIMMING	EXTRUDED ALUMINUM	TRACK	OPTICAL LENS. SEE OPTIONS	BLACK	SEE OPTIONS	SPECTRAL WHITE CRI (90+ MINIMUM). PROVIDE 1/2 THE TRACK HEADS WITH NARROW FLOOD (26 DEGREE) OPTIC, AND 1/2 THE TRACK HEADS WITH WIDE FLOOD (51 DEGREE) OPTIC). PROVIDE 15 SPARE SPOT OPTICS (16 DEGREE), AND 15 SPARE FLOOD OPTICS (38 DEGREE). OPTICS ABLE TO BE CHANGED IN THE FIELD. EACH OF THE 2- CIRCUITS ON THE TRACK TO BE SIMULTANEOUSLY INDEPENDENTLY DIMMABLE.	SENSO LIGHTING LETO 16, AMERLUX CYLINDRIX III MINI, HALO L815 STASIS SMALL
W11	LUMARK	XTOR	XTOR2B-Y	5-3/4" X 3-5/8" X 6-3/4"	EXTERIOR SCONCE - DIRECT ONLY	LED	120V	18 W	3000K	1997 LUMEN	0-10V	CAST ALUMINUM	WALL	SEALED SILICONE	TBD	FLOOD	INTEGRAL PHOTOCONTROL.	HUBBELL SLING, TRACE LITE WLZ
W12	MULE LIGHTING	EUE	BATTERY BACK-UP	20" X 2-1/4" X 2-1/2"	MULLION MOUNT EMERGENCY LIGHT	LED	120V	20 W	3000K	1000 LUMEN	FIXED OUTPUT	EXTRUDED ALUMINUM	SEE OPTIONS	SEALED ACRYLIC	TBD	-	MULLION MOUNT. GASKETED WATERPROOF COMPRESSION SEAL. IP66. BATTERY BACKUP WITH REMOTE POWER SUPPLY (LOCATE ABOVE ADJACENT ACCESSIBLE CEILING.) SELF DIAGNOSTICS. NIGHT LIGHTING CONTROL SWITCH. 2- HOUR EMERGENCY OPERATION. 24 HOUR MAX RECHARGE DURATION.	EXITRONIX NF5
W13	METEOR	LANCE 4 UP/DOWN	LA4	4" DIAM X 7.1"	DIRECT/INDIRECT WALL CYLINDER	LED	120V	30 W	3000K	1017 DN/ 1017 UP LUMENS	0-10V	ALUMINUM	WALL	-	TBD	30 DEGREE/ 30 DEGREE	MOUNT ALIGNED WITH HORIZONTAL BEAM BETWEEN COUMNS. IP65 RATED	ALW AQUA 300 ROUND LX, CSL LWUD3, LIGMAN UMV-30041
S14	GOTHAM	EVO	EVO6PC	7-1/4" DIAM X 11-5/8"	SUSPENDED CYLINDER	LED	120V	74.9 W	3000K	8000 LUMEN	0-10V, 1%	ALUMINUM	SUSPENDED - STEM	LENSED	TBD	CLEAR, SEMI-SPECULAR, NARROW/ 44 DEGREE	90+ CRI. INTEGRAL DRIVER. 5-DEGREE STEM CANOPY W/ HANG-STRAIGHT SWIVEL. SURFACE J-BOX W/ CONDUIT COVERS (JBXCC). 1FT LONG STEM.	PRESCOLITE LTC-6RDW
P15	LITHONIA	DSX1	SIZE 1	33" L X 13" W X 3.5" H	SITE AREA LIGHT - TYPE 2, SINGLE HEAD	LED	120V	102 W	3000K	11,708 LUMEN	0-10V	CAST ALUMINUM	POLE MOUNTED	MOLDED ACRYLIC	TBD	TYPE 2	INTEGRAL PHOTOSENSOR AND MOTION SENSOR. SQUARE POLE MOUNTING.	BEACON VIPER MICRO STRIKE, GARDCO PUREFORM SMALL P15, MCGRAW-EDISON GLEON
P16	LITHONIA	DSX1	SIZE 1	33" L X 13" W X 3.5" H	SITE AREA LIGHT - TYPE 4, SINGLE HEAD	LED	120V	102 W	3000K	11,426 LUMEN	0-10V	CAST ALUMINUM	POLE MOUNTED	MOLDED ACRYLIC	TBD	TYPE 4	INTEGRAL PHOTOSENSOR AND MOTION SENSOR. SQUARE POLE MOUNTING.	BEACON VIPER MICRO STRIKE, GARDCO PUREFORM SMALL P15, MCGRAW-EDISON GLEON
P15/ P16 POLE	LITHONIA	SSS	STRAIGHT SQUARE	5" X 22-25'	SITE LIGHT POLE			-		-		STEEL	GROUND MOUNT	-	FINISH TO MATCH HEAD	-	REFER TO E7.01 FOR POLE BASE DETAIL.	HUBBELL SSS-H, SIGNIFY SSS, COOPER SSS
W17	ULTRA LIGHTS	STRATA	18392-48	2.25" X 5.5" X 48"	4FT VANITY LIGHT	LED	120V	75.4 W	3000K	11838 LUMEN	0-10V	METAL	WALL	OPAL ACRYLIC	TBD	DIRECT/ INDIRECT	90+ CRI. DAMP LOCATION LISTED.	ALW LIGHTPLANE 2 WALL GRAZER
W18	AXIS LIGHTING	BEAM 3	TB3WDLED	3-3/8" X 4-1/2" X 20'	WALL LINEAR - DIRECT ONLY	LED	120V	10 W/FT	3000K	1000 LM/FT	0-10V	EXTRUDED ALUMINUM	WALL	FLUSH FROSTED ACRYLIC	TBD	ASYMMETRIC	90+ CRI. MOUNTING HEIGHT INDICATED ON PLANS. DISTRIBUTION TO BE AIMED AWAY FROM WALL.	PINNACLE EDGE EX3D, NEO-RAY DEFINE 3
R19	INDY	LLP4	NEW CONSTRUCTION	4.25" DIAM X 2.15" H	4" DOWNLIGHT - HYPERBOLIC	LED	120V	13.7 W	3000K	1500 LUMEN	0-10V, 1%	SPUN ALUMINUM	RECESSED	OPEN	WHITE FLANGE	CLEAR SEMI-SPECULAR, HYPERBOLIC MEDIUM	90+ CRI.	SENSO LIGHTING ARTEMIS 3
W20	LITHONIA	OLVTWM	WALL MOUNT	4.5" DIAM X 12" TALL	JELLY JAR UTILITY LIGHT	LED	UNV	15 W	4000K	600 LUMEN	FIXED OUTPUT	CAST ALUMINUM	WALL	FROSTED GLASS	GRAY	-		CANLET LED VAPORPROOF, STONCO VWXL
T21 HEAD	KESSIL LIGHTING	W360N	KSW360N-AMZ-BK-TG-PS-US	4.3" DIAM X 7.8"	INTERIOR LANDSCAPE LIGHT	LED	120V	85 W	SEE OPTIONS		0-10V	ALUMINUM	TRACK	-	BLACK	35 DEGREE, PAR REFLECTOR	AMAZON SUN 4000-6500K CCT, W/ G-TYPE TRACK ADAPTER, POWER SUPPLY. 1 CIRCUIT TRACK, MANUAL CONTROL. (QUANTITY: 13)	ALTERNATES MUST BE SUBMITTED FOR REVIEW AND CONSIDERATION.
T21 TRACK	KESSIL LIGHTING	G-TYPE TRACK	(SEE OPTIONS)	1-3/8" W X 8' L	SURFACE MOUNTED TRACK		120V	-		-		ALUMINUM	SURFACE	-	BLACK	-	KSL-GES-208-3, 8FT 1-CKT TRACK (QTY: 6). KSL-GES-11-3, TRACK LIVE END FEED (QTY: 1). KSL-GES-41-3, TRACK END CAP (QTY: 3). KSL-GES-38-3, TRACK X CONNECTOR (QTY: 1). KSL-GES-34-3, ADJUSTABLE L-CONNECTOR W/ FEED (QTY: 1).	ALTERNATES MUST BE SUBMITTED FOR REVIEW AND CONSIDERATION.

REVISIONS

02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KONK
E-61379
REGISTERED
PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

FOR OFFICIAL USE ONLY - Infrastructure Record

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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

LIGHT FIXTURE SCHEDULE

SHEET NO.
E5.01

Panel Name: L1

Location:	ELECTRICAL / DATA...	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	MSB	**Phases:**	3	**Mains Rating:**	100.00 A
Mounting:	Surface	**Wires:**	4		

Notes:
- COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Note
	LIGHTING	20 A	1	0.50 / 0.00			2	20 A	SPARE	
	LTG - ELEV PIT	20 A	3		0.10 / 0.00		4	20 A	SPARE	
	LIGHTING	20 A	5			0.80 / 0.00	6	20 A	SPARE	
	LTG - STOR, MECH 000, N STAIR	20 A	7	0.91 / 0.00			8	20 A	SPARE	
	LTG - TRACK BASEMENT	20 A	9		1.51 / 0.00		10	20 A	SPARE	
	LTG - CAN LIGHTS BASEMENT	20 A	11			0.32 / 0.00	12	20 A	SPARE	
	LIGHTING	20 A	13	1.05 / 0.00			14	20 A	SPARE	
	LIGHTING	20 A	15		0.22 / 0.00		16	20 A	SPARE	
	LIGHTING	20 A	17			0.67 / 0.00	18	20 A	SPARE	
	LIGHTING	20 A	19	0.10 / 0.00			20	20 A	SPARE	
	LIGHTING	20 A	21		0.92 / 0.00		22	20 A	SPARE	
	LIGHTING	20 A	23			0.16 / 0.00	24	20 A	SPARE	
	LTG - THEATER 101	20 A	25	0.82 / 0.00			26	20 A	SPARE	
	LIGHTING	20 A	27		0.74 / 0.00		28	20 A	SPARE	
	LTG - LIVING STREAM TRACK	20 A	29			1.21 / 0.00	30	20 A	SPARE	
	LTG - 1ST FLOOR	20 A	31	0.56 / 0.00			32	20 A	SPARE	
	LTG - 1ST FLOOR EMERGENCY	20 A	33		0.38 / 0.00		34	20 A	SPARE	
	EM LTG - BASEMENT	20 A	35			0.10 / 0.00	36	20 A	SPARE	
	LIGHTING	20 A	37	0.18 / 0.00			38	20 A	SPARE	
	LIGHTING	20 A	39		0.52 / 0.00		40	20 A	SPARE	
	SPARE	20 A	41			0.00 / 0.00	42	20 A	SPARE	
		Total Load:		4.12 kVA	4.37 kVA	3.25 kVA				
		Total Amps:		35.44 A	37.52 A	27.07 A				

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
LIGHTING	11.74 kVA	125.00%	14.67 kVA	**Total Conn. Load:**	11.74 kVA
				Total Est. Demand:	14.67 kVA
				Total Conn.:	32.57 A
				Total Est. Demand:	40.72 A

Panel Name: P1

Location:	ELECTRICAL / DATA...	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	MSB	**Phases:**	3	**Mains Rating:**	225.00 A
Mounting:	Surface	**Wires:**	4		

Notes:
- COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Note
	RECEPTACLE	20 A	1	0.50 / 0.00			2,4	20 A	SPARE	
	GENERATOR - ENGINE JACKET HEATER	25 A	3,5		2.00 / 0.00					
						2.00 / 0.00	6,8,10			
	REC - STOR, MECHANICAL 000	20 A	7	0.90 / 0.00				20 A	SPARE	
	REC - MECH 000	20 A	9			0.18 / 0.00				
	REC - ELEV LOBBY 0	20 A	11				0.18 / 0.00	12	20 A	SPARE
	REC - ELEV PIT	20 A	13	0.18 / 0.00				14	20 A	SPARE
	REC - PUMP RM 004	20 A	15			0.54 / 0.00		16	20 A	SPARE
	REC 106	20 A	17				0.72 / 0.00	18	20 A	SPARE
	REC - DATA 002	20 A	19	0.36 / 0.00				20	20 A	SPARE
	REC - DATA 002	20 A	21			0.36 / 0.00		22	20 A	SPARE
	REC - DATA 002	20 A	23				0.36 / 0.00	24	20 A	SPARE
	REC - ELEC 002	20 A	25	0.36 / 0.00				26	20 A	SPARE
	REC - STOR, GALLERY 001	20 A	27			1.08 / 0.00		28	20 A	SPARE
	REC - CEILING/PROJECTOR GALLERY 001	20 A	29				0.18 / 0.00	30	20 A	SPARE
	POWER SUPPLIES BASEMENT	20 A	31	0.00 / 0.00				32	20 A	SPARE
	REC 101	20 A	33			0.72 / 0.00		34	20 A	SPARE
	REC 101	20 A	35				1.08 / 0.00	36	20 A	SPARE
	REC 104	20 A	37	0.54 / 0.00				38	20 A	SPARE
	REC 101	20 A	39			1.26 / 0.00		40	20 A	SPARE
	AUTO FLUSH VALVE 105	20 A	41				0.02 / 0.00	42	20 A	SPARE
	ELECTRIC BASEBOARD HEATERS 107	20 A	43	0.50 / 0.00				44	20 A	SPARE
GF	EWC LOBBY 101	20 A	45			0.37 / 0.00		46	20 A	SPARE
	AUTO FLUSH VALVE 106	20 A	47				0.02 / 0.00	48	20 A	SPARE
	REC - 107	20 A	49	0.18 / 0.00				50	20 A	SPARE
	1ST FLOOR POWER SUPPLIES	20 A	51			0.00 / 0.00		52	20 A	SPARE
	REC - 103	20 A	53				0.54 / 0.00	54	20 A	SPARE
	REC - 103	20 A	55	0.18 / 0.00				56	20 A	SPARE
	FACP	20 A	57			0.00 / 0.00		58	20 A	SPARE
	REC 109	20 A	59				0.90 / 0.00	60	20 A	SPARE
	REC - ELEV HOISTWAY	20 A	61	0.18 / 0.00				62	20 A	SPARE
	MOTORIZED DOOR 107	20 A	63			0.37 / 0.00		64	20 A	SPARE
	MOTORIZED DOOR 103	20 A	65				0.37 / 0.00	66	20 A	SPARE
	ELEVATOR CAB LTG	20 A	67	0.10 / 0.00				68	20 A	SPARE
	REC - GALLERY 001	20 A	69			1.08 / 0.00		70	20 A	SPARE
	RECEPTACLE	20 A	71				0.18 / 0.00	72	20 A	SPARE
	SPARE	20 A	73	0.00 / 0.00				74	20 A	SPARE
	SPARE	20 A	75			0.00 / 0.00		76	20 A	SPARE
	SPARE	20 A	77				0.00 / 0.00	78	20 A	SPARE
	SPARE	20 A	79	0.00 / 0.00				80	20 A	SPARE
	SPARE	20 A	81			0.00 / 0.00		82	20 A	SPARE
	SPARE	20 A	83				0.00 / 0.00	84	20 A	SPARE
		Total Load:		3.98 kVA	7.96 kVA	6.55 kVA				
		Total Amps:		33.17 A	69.66 A	57.91 A				

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
Motor	0.85 kVA	111.02%	0.94 kVA	**Total Conn. Load:**	18.50 kVA
POWER	0.00 kVA	0.00%	0.00 kVA	**Total Est. Demand:**	14.76 kVA
RECEPTACLE	17.65 kVA	78.33%	13.83 kVA	**Total Conn.:**	51.34 A
				Total Est. Demand:	40.98 A

Panel Name: P2

Location:		**Volts:**	120/208 Wye	**Mains Type:**	MCB
Supply From:	MSB	**Phases:**	3	**Mains Rating:**	225.00 A
Mounting:	Recessed	**Wires:**	4		

Notes:
- COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	#	Trip	Branch Circuit Description	Note
	REC 205	20 A	1	1.44 / 0.00		2,4	20 A	SPARE	
	REC - 200, 203, 205	20 A	3		1.08 / 0.00				
	POWER SUPPLY 205	20 A	5	0.00 / 0.00		6,8,10			
	REC 202,203	20 A	7		0.00 / 0.00		20 A	SPARE	
GF	REC 202 - MICROWAVE	20 A	9	0.00 / 0.00					
GF	REC 202 - UNDER COUNTER FRIDGE	20 A	11		0.00 / 0.00	12	20 A	SPARE	
	REC 202	20 A	13	0.18 / 0.00		14	20 A	SPARE	
	REC - GARBAGE DISPOSAL 202	20 A	15		1.92 / 0.00	16	20 A	SPARE	
	REC	20 A	17	0.00 / 0.00		18	20 A	SPARE	
	REC 206	20 A	19		0.00 / 0.00	20	20 A	SPARE	
	REC 201	20 A	21	0.00 / 0.00		22	20 A	SPARE	
			23		0.00 / 0.00	24	20 A	SPARE	
	REC 206 AND BALCONY	20 A	25	0.54 / 0.00		26	20 A	SPARE	
	SPARE	20 A	27		0.00 / 0.00	28	20 A	SPARE	
	SPARE	20 A	29	0.00 / 0.00		30	20 A	SPARE	
	SPARE	20 A	31		0.00 / 0.00	32	20 A	SPARE	
	SPARE	20 A	33	0.00 / 0.00		34	20 A	SPARE	
	SPARE	20 A	35		0.00 / 0.00	36	20 A	SPARE	
	SPARE	20 A	37	0.00 / 0.00		38	20 A	SPARE	
	SPARE	20 A	39		0.00 / 0.00	40	20 A	SPARE	
	SPARE	20 A	41	0.00 / 0.00		42	20 A	SPARE	
		Total Load:		3.96 kVA	4.38 kVA				
		Total Amps:		36.05 A	39.55 A				

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
Motor	0.00 kVA	0.00%	0.00 kVA	**Total Conn. Load:**	9.92 kVA
RECEPTACLE	9.92 kVA	100.00%	9.92 kVA	**Total Est. Demand:**	9.92 kVA
				Total Conn.:	27.54 A
				Total Est. Demand:	27.54 A

BRANCH CIRCUIT WIRING SCHEDULE

120 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
15A-1P/20A-1P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 65'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	65' - 100'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
30A-1P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 65'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	65' - 105'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	105' - 170'
	2 #4 & 1 #10 GND.	1" CONDUIT	170' - 270'

120/208 VOLT 1Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P *	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P *	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	3 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P *	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	3 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	3 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	3 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

208 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	2 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P	2 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	2 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	2 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	2 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	2 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

208 VOLT 3Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	240' - 380'
30A-3P	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
	3 #4 & 1 #8 GND.	1" CONDUIT	255' - 400'
40A-3P	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	120' - 190'
	3 #4 & 1 #8 GND.	1" CONDUIT	190' - 300'
50A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 150'
	3 #4 & 1 #8 GND.	1" CONDUIT	150' - 240'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 125'
	3 #4 & 1 #8 GND.	1" CONDUIT	125' - 200'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

120/208 VOLT 3Ø, 4W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P *	4 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	4 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	4 #6 & 1 #10 GND.	1" CONDUIT	240' - 380'
30A-3P *	4 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	4 #6 & 1 #10 GND.	1" CONDUIT	160' - 255'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	255' - 400'
40A-3P *	4 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	4 #6 & 1 #10 GND.	1" CONDUIT	120' - 190'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	190' - 300'
50A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 150'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	150' - 240'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 125'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	125' - 200'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	4 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

REVISIONS

02.25.2022	BID DOCUMENTS
03.11.2022	ADDENDUM NO. 1
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. MONK
E-91379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	12/16/2021

ELECTRICAL SCHEDULES

SHEET NO. **E5.02**

Panel Name: SP1

Location:	ELECTRICAL / DATA...	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	ATS1	**Phases:**	3	**Mains Rating:**	400.00 A
Mounting:	Surface	**Wires:**	4		

Notes: - COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Note
	RECEPTACLE	20 A	1	0.50 / 0.75			2,4	20 A	ELECTRIC BASEBOARD HEATER 206	
	REC - SP1, ELEV PIT	20 A	3		1.66 / 0.75					
			5			0.00 / 1.50	6,8	20 A	ELECTRIC BASEBOARD HEATERS 205	
	REC - BAS PANEL, MECH 000	20 A	7	0.18 / 1.50						
	AH2	70 A	9,11		5.00 / 0.75		10,12	20 A	ELECTRIC BASEBOARD HEATER 202	
						5.00 / 0.75				
	RECEPTACLE	20 A	13	0.96 / 0.19			14,16	20 A	SP2	
	ELECTRIC BASEBOARD HEATERS 109	20 A	15,17		1.20 / 0.19					
						1.20 / 0.00	18	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 109	20 A	19,21	1.13 / 0.00			20	20 A	SPARE	
					1.13 / 0.00		22	20 A	SPARE	
	RECEPTACLE LIVING STREAM 109	20 A	23			1.00 / 0.00	24	20 A	SPARE	
	RECEPTACLE LIVING STREAM 109	20 A	25	1.00 / 0.00			26	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 101	20 A	27,29		1.13 / 0.00		28	20 A	SPARE	
						1.13 / 0.00	30	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 101	20 A	31,33	1.20 / 0.00			32	20 A	SPARE	
					1.20 / 0.00		34	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	35,37			1.25 / 0.00	36	20 A	SPARE	
				1.25 / 0.00			38	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	39,41		1.25 / 0.00		40	20 A	SPARE	
						1.25 / 0.00	42	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	43,45	1.25 / 0.00			44	20 A	SPARE	
					1.25 / 0.00		46	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	47,49			1.25 / 0.00	48	20 A	SPARE	
				1.25 / 0.00			50	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	51,53		1.25 / 0.00		52	20 A	SPARE	
						1.25 / 0.00	54	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	55,57	1.25 / 0.00			56	20 A	SPARE	
					1.25 / 0.00		58	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 206	20 A	59,61			1.25 / 0.00	60	20 A	SPARE	
				1.25 / 0.00			62	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 203	20 A	63,65		1.05 / 0.00		64	20 A	SPARE	
						1.05 / 0.00	66	20 A	SPARE	
	ELECTRIC BASEBOARD HEATERS 202	20 A	67,69	1.13 / 0.00			68	20 A	SPARE	
					1.13 / 0.00		70	20 A	SPARE	
	ACCU3	70 A	71,73			5.00 / 0.00	72	20 A	SPARE	
				5.00 / 0.00			74	20 A	SPARE	
	REC - SE1, MECH 000	20 A	75		1.18 / 0.00		76	20 A	SPARE	
	ELECTRIC BASEBOARD HEATER 109	20 A	77,79			0.75 / 0.00	78	20 A	SPARE	
				0.75 / 0.00			80	20 A	SPARE	
	ELECTRIC BASEBOARD HEATER 101	20 A	81,83		0.75 / 0.00		82	20 A	SPARE	
						0.75 / 0.00	84	20 A	SPARE	

Total Load:	20.53 kVA	22.10 kVA	24.38 kVA
Total Amps:	171.05 A	186.20 A	205.14 A

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
Motor	20.37 kVA	112.27%	22.87 kVA	**Total Conn. Load:**	67.00 kVA
RECEPTACLE	46.63 kVA	60.72%	28.32 kVA	**Total Est. Demand:**	51.19 kVA
				Total Conn.:	185.98 A
				Total Est. Demand:	142.08 A

Panel Name: M1

Location:	ELECTRICAL / DATA...	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	MSB	**Phases:**	3	**Mains Rating:**	400.00 A
Mounting:	Surface	**Wires:**	4		

Notes: - COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Note
	CUH 1 - NORTH STAIR 0	30 A	1,3	2.00 / 4.33			2,4,6	45 A	ACCU2	
					2.00 / 4.33					
	CUH1 - MECH 000	25 A	5,7			2.00 / 4.33				
				2.00 / 4.33			8,10,12			
	AH1-RETURN EXHAUST FAN	20 A	9,11,13		1.38 / 4.33			45 A	ACCU2	
						1.38 / 4.33				
	AH1-HEAT WHEEL MOTOR	20 A	15		0.38 / 0.00		14,16,18	20 A	SPARE	
	AH1 - ELEC. PREHEAT	70 A	17,19,21			6.67 / 0.00				
				6.67 / 0.00			20,22,24	30 A	SPARE	
					6.67 / 0.00					
	AH1 - ELEC. REHEAT	70 A	23,25,27			6.67 / 0.00				
				6.67 / 0.00			26	20 A	SPARE	
					6.67 / 0.00		28	20 A	SPARE	
	AH1 - SUPPLY FAN ARRAY	30 A	29,31,33			2.71 / 0.00	30	20 A	SPARE	
				2.71 / 0.00			32	20 A	SPARE	
					2.71 / 0.00		34	20 A	SPARE	
	EWH1	30 A	35,37			2.25 / 0.00	36	20 A	SPARE	
				2.25 / 0.00			38	20 A	SPARE	
	RCP1	20 A	39,41		0.06 / 0.00		40	20 A	SPARE	
						0.06 / 0.00	42	20 A	SPARE	

Total Load:	32.34 kVA	28.53 kVA	30.40 kVA
Total Amps:	271.90 A	237.78 A	255.76 A

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
HEATING	48.00 kVA	100.00%	48.00 kVA	**Total Conn. Load:**	91.28 kVA
Motor	43.28 kVA	107.51%	46.53 kVA	**Total Est. Demand:**	94.53 kVA
				Total Conn.:	253.36 A
				Total Est. Demand:	262.38 A

Panel Name: M2

Location:	ELECTRICAL / DATA...	**Volts:**	120/208 Wye	**Mains Type:**	MLO
Supply From:	MSB	**Phases:**	3	**Mains Rating:**	225.00 A
Mounting:	Surface	**Wires:**	4		

Notes: - COORDINATE LUG SIZE WITH WIRE SIZE ON ONE LINE DIAGRAM
- PROVIDE PANEL WITH FEED THRU LUGS

Note	Branch Circuit Description	Trip	#	A	B	C	#	Trip	Branch Circuit Description	Note
	CUH1 - SOUTH STAIR 00	30 A	1,3	2.00 / 0.25			2,4	30 A	CUH1 - VESTIBULE 107	
					2.00 / 0.25					
	VAV -1ST FLOOR WEST	20 A	5,7			0.17 / 0.00	6,8	20 A	SPARE	
				0.00 / 0.00						
	VAV - 1ST FLOOR EAST	20 A	9,11		0.99 / 0.00		10,12,14	20 A	SPARE	
						0.00 / 0.00				
	VAV - 2ND FLOOR WEST	20 A	13,15	1.67 / 0.00						
					0.00 / 0.00		16	20 A	SPARE	
	VAV - RMS 202, 203	20 A	17,19			2.67 / 0.00	18	20 A	SPARE	
				0.00 / 0.00			20	20 A	SPARE	
	ACCU4	20 A	21,23		1.72 / 0.00		22	20 A	SPARE	
						1.72 / 0.00	24	20 A	SPARE	
	ACCU5	20 A	25,27	1.72 / 0.00			26	20 A	SPARE	
					1.72 / 0.00		28	20 A	SPARE	
	ACCU1	80 A	29,31,33			7.50 / 0.00	30	20 A	SPARE	
				7.50 / 0.00			32	20 A	SPARE	
					7.50 / 0.00		34	20 A	SPARE	
	ACCU1	80 A	35,37,39			7.50 / 0.00	36	20 A	SPARE	
				7.50 / 0.00			38	20 A	SPARE	
					7.50 / 0.00		40	20 A	SPARE	
	SPARE	20 A	41			0.00 / 0.00	42	20 A	SPARE	

Total Load:	20.64 kVA	21.67 kVA	19.56 kVA
Total Amps:	173.34 A	181.97 A	162.96 A

Load Classification	Connected Load	NEC Demand Factor	Estimated Demand	Panel Totals	
HEATING	4.50 kVA	100.00%	4.50 kVA	**Total Conn. Load:**	61.86 kVA
Motor	51.86 kVA	110.85%	57.49 kVA	**Total Est. Demand:**	67.49 kVA
RECEPTACLE	5.50 kVA	100.00%	5.50 kVA	**Total Conn.:**	171.71 A
				Total Est. Demand:	187.32 A

BRANCH CIRCUIT WIRING SCHEDULE

120 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
15A-1P/20A-1P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 65'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	65' - 100'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
30A-1P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 65'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	65' - 105'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	105' - 170'
	2 #4 & 1 #10 GND.	1" CONDUIT	170' - 270'

120/208 VOLT 1Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P *	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P *	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	3 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P *	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	3 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	3 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P *	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	3 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	3 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

208 VOLT 1Ø, 2W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-2P	2 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 110'
	2 #10 & 1 #10 GND.	3/4" CONDUIT	110' - 170'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	170' - 275'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	275' - 440'
30A-2P	2 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 115'
	2 #8 & 1 #10 GND.	3/4" CONDUIT	115' - 185'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	185' - 290'
	2 #4 & 1 #8 GND.	1" CONDUIT	290' - 460'
40A-2P	2 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 135'
	2 #6 & 1 #10 GND.	3/4" CONDUIT	135' - 220'
	2 #4 & 1 #8 GND.	1" CONDUIT	220' - 340'
50A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 175'
	2 #4 & 1 #8 GND.	1" CONDUIT	175' - 280'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	280' - 350'
60A-2P	2 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 145'
	2 #4 & 1 #8 GND.	1" CONDUIT	145' - 230'
	2 #3 & 1 #8 GND.	1-1/4" CONDUIT	230' - 290'
	2 #2 & 1 #8 GND.	1-1/2" CONDUIT	290' - 365'

208 VOLT 3Ø, 3W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P	3 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	3 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	240' - 380'
30A-3P	3 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	3 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	160' - 255'
	3 #4 & 1 #8 GND.	1" CONDUIT	255' - 400'
40A-3P	3 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	3 #6 & 1 #10 GND.	3/4" CONDUIT	120' - 190'
	3 #4 & 1 #8 GND.	1" CONDUIT	190' - 300'
50A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 150'
	3 #4 & 1 #8 GND.	1" CONDUIT	150' - 240'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P	3 #6 & 1 #10 GND.	3/4" CONDUIT	0 - 125'
	3 #4 & 1 #8 GND.	1" CONDUIT	125' - 200'
	3 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	3 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

120/208 VOLT 3Ø, 4W.+ GND CIRCUITS

CIRCUIT BREAKER	CONDUCTOR	RACEWAY	BRANCH CIRCUIT DISTANCE
20A-3P *	4 #12 & 1 #12 GND.	3/4" CONDUIT	0 - 95'
	4 #10 & 1 #10 GND.	3/4" CONDUIT	95' - 150'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	150' - 240'
	4 #6 & 1 #10 GND.	1" CONDUIT	240' - 380'
30A-3P *	4 #10 & 1 #10 GND.	3/4" CONDUIT	0 - 100'
	4 #8 & 1 #10 GND.	3/4" CONDUIT	100' - 160'
	4 #6 & 1 #10 GND.	1" CONDUIT	160' - 255'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	255' - 400'
40A-3P *	4 #8 & 1 #10 GND.	3/4" CONDUIT	0 - 120'
	4 #6 & 1 #10 GND.	1" CONDUIT	120' - 190'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	190' - 300'
50A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 150'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	150' - 240'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	240' - 305'
60A-3P *	4 #6 & 1 #10 GND.	1" CONDUIT	0 - 125'
	4 #4 & 1 #8 GND.	1/4" CONDUIT	125' - 200'
	4 #3 & 1 #8 GND.	1/4" CONDUIT	200' - 255'
	4 #2 & 1 #8 GND.	1-1/2" CONDUIT	255' - 320'

REVISIONS

02.25.2022	BID DOCUMENTS
03.11.2022	ADDENDUM NO. 1
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO STANLEY E. NEMETH PE-61379 REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	12/16/2021

ELECTRICAL SCHEDULES

SHEET NO. **E5.03**

SYMBOLS LIST FOR WIRING DIAGRAMS AND DETAILS

1. SOME SYMBOLS MAY NOT BE USED.

SYMBOL	DESCRIPTION
100/3 100	FUSIBLE SWITCH WITH FUSES (SIZE AS NOTED)
100/3	CIRCUIT BREAKER (SIZE AS NOTED)
100/3	SPACE FOR DEVICE (SIZE AS NOTED)
100/3	SPARE FUSIBLE SWITCH (WITHOUT FUSES)
K	KIRK KEY INTERLOCK
S	SHUNT TRIP
AS ; VS	AMMETER, VOLTMETER SWITCH
AM	ANALOG AMMETER
VM	ANALOG VOLTMETER
GF	GROUND FAULT SENSOR/OPERATOR
	CURRENT TRANSFORMER
	POTENTIAL TRANSFORMER
WHM	ANALOG WATTHOUR METER
M	UTILITY METER
M	ELECTRONIC METERING UNIT
	PANELBOARD
TX T1	POWER TRANSFORMER, "TX" DENOTES NAME "T1" NOTES TYPE (SEE TRANSFORMER SCHEDULE)
#6	GROUNDING ELECTRODE AND CONDUCTOR (CONDUCTOR SIZE AS NOTED)
1/25/3 3R, NF	COMBINATION MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
1/25/3 3R, NF	MAGNETIC MOTOR STARTER (STARTER SIZE, FUSE SIZE, NO. OF POLES -AS NOTED) "3R" DENOTES NEMA "3R" ENCLOSURE, "NF"=NONFUSED
30/20/3 NF	SAFETY SWITCH (SWITCH SIZE, FUSE SIZE, NO. OF POLES AS NOTED) NF=NONFUSED
WP	WEATHERPROOF
CP	CONTROL PANEL (BY OTHERS)
VFD	VARIABLE FREQUENCY DRIVE
SPD	SURGE PROTECTION DEVICE
M	MOTOR
G	EMERGENCY GENERATOR
	AUTOMATIC TRANSFER SWITCH
	BYPASS/ISOLATION AUTOMATIC TRANSFER SWITCH
	MANUAL TRANSFER SWITCH
	EQUIPMENT (AS NOTED)
	PUSHBUTTON - NORMALLY OPEN
	PUSHBUTTON - NORMALLY CLOSED
	FIRE PUMP CONTROLLER (BY OTHERS)

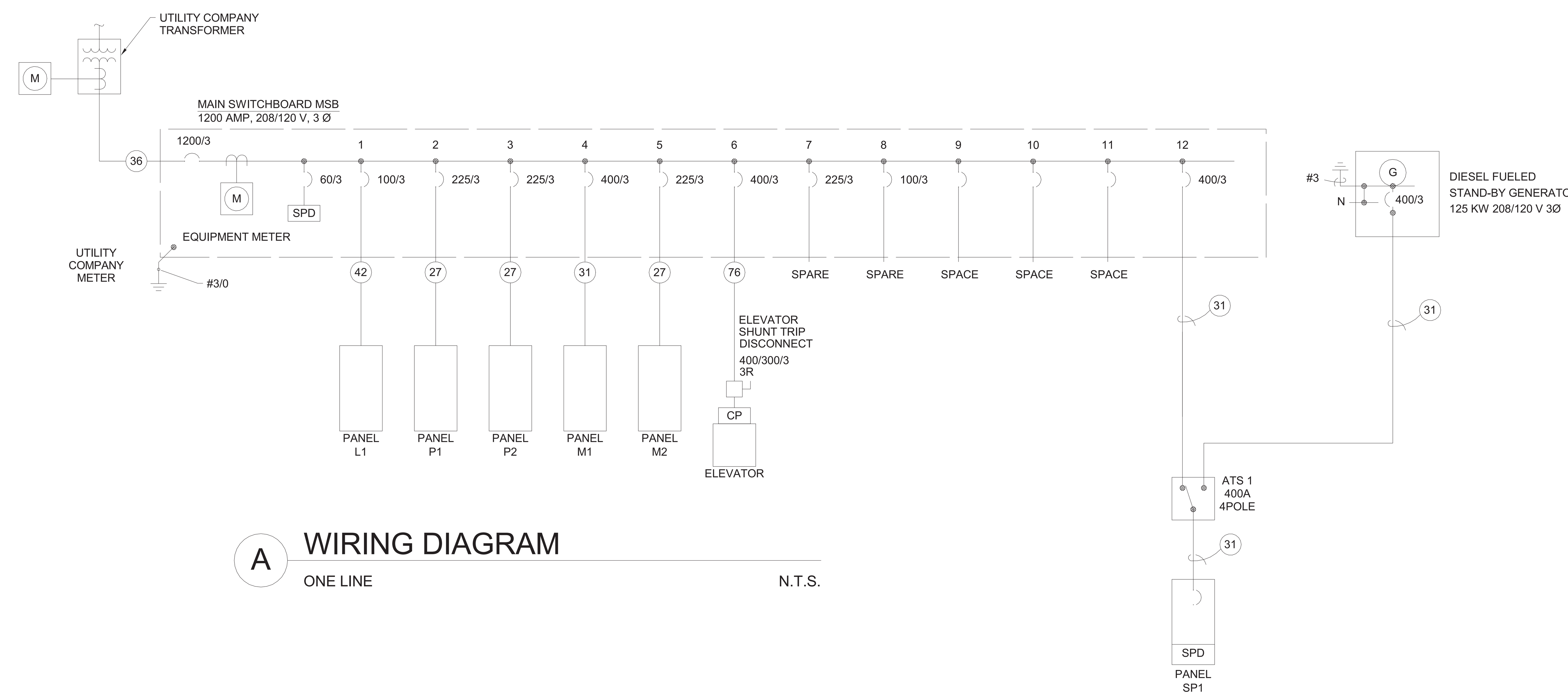
GENERAL NOTE

ALL EQUIPMENT AND FEEDERS SHOWN IN SOLID, LIGHTWEIGHT LINES INDICATE EXISTING EQUIPMENT AND FEEDERS TO REMAIN. ALL EQUIPMENT AND FEEDERS SHOWN IN DASHED, LIGHTWEIGHT LINES INDICATE EXISTING EQUIPMENT AND FEEDERS TO BE DISCONNECTED AND REMOVED. ALL HEAVYWEIGHT LINES INDICATE NEW EQUIPMENT AND FEEDERS. PROVIDE NEW FUSES WHERE NEW FEEDERS ARE BEING CONNECTED TO EXISTING FUSIBLE SWITCHES.

ONE LINE DIAGRAM-FEEDER SCHEDULE

INSULATION TYPE: THWN with COPPER CONDUCTORS
ELECTRICAL METALLIC TUBING (EMT)

OVERCURRENT PROTECTION AMPACITY	NOTE NUMBER	NUMBER OF SETS	PHASE WIRES QUANTITY - SIZE	NEUTRAL WIRE QUANTITY - SIZE	GROUND SIZE	ISOLATED GROUND SIZE	CONDUIT SIZE PER SET	COMMENTS/REMARKS
20	1	1	3 - #12 AWG	-	1 - #12 AWG	-	3/4"	3 PHASE EQUIPMENT AND MOTOR FEEDERS
30	2	1	3 - #10 AWG	-	1 - #10 AWG	-	3/4"	
40	3	1	3 - #8 AWG	-	1 - #10 AWG	-	3/4"	
50	4	1	3 - #6 AWG	-	1 - #10 AWG	-	3/4"	
70	5	1	3 - #4 AWG	-	1 - #8 AWG	-	1"	
90	6	1	3 - #2 AWG	-	1 - #8 AWG	-	1-1/4"	
110	7	1	3 - #1 AWG	-	1 - #6 AWG	-	1-1/4"	
150	8	1	3 - #1/0 AWG	-	1 - #6 AWG	-	1-1/2"	
175	9	1	3 - #2/0 AWG	-	1 - #6 AWG	-	1-1/2"	
200	10	1	3 - #3/0 AWG	-	1 - #6 AWG	-	2"	
225	11	1	3 - #4/0 AWG	-	1 - #4 AWG	-	2"	
250	12	1	3 - 250 KCMIL	-	1 - #4 AWG	-	2"	
300	13	1	3 - 350 KCMIL	-	1 - #4 AWG	-	2-1/2"	
350	14	1	3 - 500 KCMIL	-	1 - #3 AWG	-	3"	
400	15	1	3 - 600 KCMIL	-	1 - #3 AWG	-	3"	
500	16	2	3 - 250 KCMIL	-	1 - #2 AWG	-	2"	
600	17	2	3 - 350 KCMIL	-	1 - #1 AWG	-	2-1/2"	
700	18	2	3 - 500 KCMIL	-	1 - #1/0 AWG	-	3"	
800	19	2	3 - 600 KCMIL	-	1 - #1/0 AWG	-	3"	
1000	20	3	3 - 400 KCMIL	-	1 - #2/0 AWG	-	3"	
1200	21	3	3 - 600 KCMIL	-	1 - #3/0 AWG	-	3"	
1600	22	4	3 - 600 KCMIL	-	1 - #4/0 AWG	-	3-1/2"	
OPEN	23	-	-	-	-	-	-	
100	24	1	3 - #1 AWG	1 - #1 AWG	1 - #8 AWG	-	1-1/2"	POWER PANELS, DISTRIBUTION PANELBOARDS, AND SWITCHBOARDS
150	25	1	3 - #1/0 AWG	1 - #1/0 AWG	1 - #6 AWG	-	2"	
200	26	1	3 - #3/0 AWG	1 - #3/0 AWG	1 - #6 AWG	-	2"	
225	27	1	3 - #4/0 AWG	1 - #4/0 AWG	1 - #4 AWG	-	2-1/2"	
250	28	1	3 - 250 KCMIL	1 - 250 KCMIL	1 - #4 AWG	-	2-1/2"	
300	29	1	3 - 350 KCMIL	1 - 350 KCMIL	1 - #4 AWG	-	3"	
350	30	1	3 - 500 KCMIL	1 - 500 KCMIL	1 - #3 AWG	-	3-1/2"	
400	31	1	3 - 600 KCMIL	1 - 600 KCMIL	1 - #3 AWG	-	3-1/2"	
500	32	2	3 - 250 KCMIL	1 - 250 KCMIL	1 - #2 AWG	-	2-1/2"	
600	33	2	3 - 350 KCMIL	1 - 350 KCMIL	1 - #1 AWG	-	3"	
800	34	2	3 - 600 KCMIL	1 - 600 KCMIL	1 - #1/0 AWG	-	4"	
1000	35	3	3 - 400 KCMIL	1 - 400 KCMIL	1 - #2/0 AWG	-	3"	
1200	36	3	3 - 600 KCMIL	1 - 600 KCMIL	1 - #3/0 AWG	-	4"	
1600	37	4	3 - 600 KCMIL	1 - 600 KCMIL	1 - #4/0 AWG	-	4"	
2000	38	5	3 - 600 KCMIL	1 - 600 KCMIL	1 - 250 KCMIL	-	4"	
2500	39	6	3 - 600 KCMIL	1 - 600 KCMIL	1 - 350 KCMIL	-	4"	
3000	40	8	3 - 500 KCMIL	1 - 500 KCMIL	1 - 400 KCMIL	-	4"	
4000	41	10	3 - 600 KCMIL	1 - 600 KCMIL	1 - 500 KCMIL	-	4"	
100	42	1	3 - #1/0 AWG	1 - #1/0 AWG	1 - #8 AWG	-	1-1/2"	LIGHTING PANELS
200	43	1	3 - 250 KCMIL	1 - 250 KCMIL	1 - #6 AWG	-	2-1/2"	
225	44	1	3 - 300 KCMIL	1 - 300 KCMIL	1 - #4 AWG	-	3"	
400	45	2	3 - 250 KCMIL	1 - 250 KCMIL	1 - #3 AWG	-	3"	
600	46	2	3 - 500 KCMIL	1 - 500 KCMIL	1 - #1 AWG	-	3-1/2"	
800	47	3	3 - 500 KCMIL	1 - 500 KCMIL	1 - #1/0 AWG	-	3-1/2"	
FIRE PUMP	48	1	3 - #1 AWG	-	1 - #6 AWG	-	2"	2 HR FIRE RATED
FIRE PUMP	49	1	6 - #1 AWG	-	1 - #6 AWG	-	2"	Y-△ STARTER
TVSS	50	1	3 - #2 AWG	1 - #2 AWG	1 - #2 AWG	-	1-1/2"	MINIMIZE LENGTH
15 KV	51	1	3 - #4/0 AWG	-	1 - #4/0 AWG	-	5"	
15 KV	52	1	3 - 500 KCMIL	-	1 - #4/0 AWG	-	5"	
1200	53	3	3 - 600 KCMIL	1 - 600 KCMIL	-	-	4"	SECONDARY SERVICE
30	63	1	3 - #10 AWG	-	1 - #10 AWG	-	3/4"	ELEVATOR FEEDERS
40	64	1	3 - #8 AWG	-	3 - #8 AWG	-	3/4"	
50	65	1	3 - #6 AWG	-	3 - #6 AWG	-	3/4"	
70	66	1	3 - #4 AWG	-	3 - #4 AWG	-	1"	
90	67	1	3 - #2 AWG	-	3 - #2 AWG	-	1-1/4"	
110	68	1	3 - #1 AWG	-	3 - #1 AWG	-	1-1/2"	
150	69	1	3 - #1/0 AWG	-	3 - #1/0 AWG	-	1-1/2"	
175	70	1	3 - #2/0 AWG	-	3 - #2/0 AWG	-	2"	
200	71	1	3 - #3/0 AWG	-	3 - #3/0 AWG	-	2"	
225	72	1	3 - #4/0 AWG	-	3 - #4/0 AWG	-	2"	
250	73	1	3 - 250 KCMIL	-	3 - 250 KCMIL	-	2-1/2"	
300	74	1	3 - 350 KCMIL	-	3 - 350 KCMIL	-	2-1/2"	
350	75	1	3 - 500 KCMIL	-	3 - 500 KCMIL	-	3"	
400	76	1	3 - 600 KCMIL	-	3 - 600 KCMIL	-	3"	



A WIRING DIAGRAM
ONE LINE N.T.S.

ELECTRICAL LOAD TABULATION SCHEDULE (208V, 3Ø)

	LIGHTING	RECEPTACLES & MISC.	MOTORS	ELECTRIC HEATING
CONNECTED LOAD	16.75 KVA	38.71 KVA	41 KVA 150.33 KVA	51.65 KVA
NON-SIMULTANEOUS LOAD (MINUS)	KVA	0 KVA	KVA	KVA
SUB-TOTAL 1	16.75 KVA	38.71 KVA	191.33 KVA	51.65 KVA
FEEDER SIZING DEMAND FACTOR	1.25 X TOTAL	1 X 1ST 10KVA, 0.5 X REMAIN	1.25 X LARGEST + REMAINDER	1.0 X TOTAL
SUB-TOTAL 2	20.9 KVA	24.4 KVA	201.6 KVA	51.7 KVA
TOTAL LOAD FOR SERVICE SIZING	298.5 KVA	208 V	830 A	3 Ø

REVISIONS

02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO STANLEY J. KMONK E-51379 REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

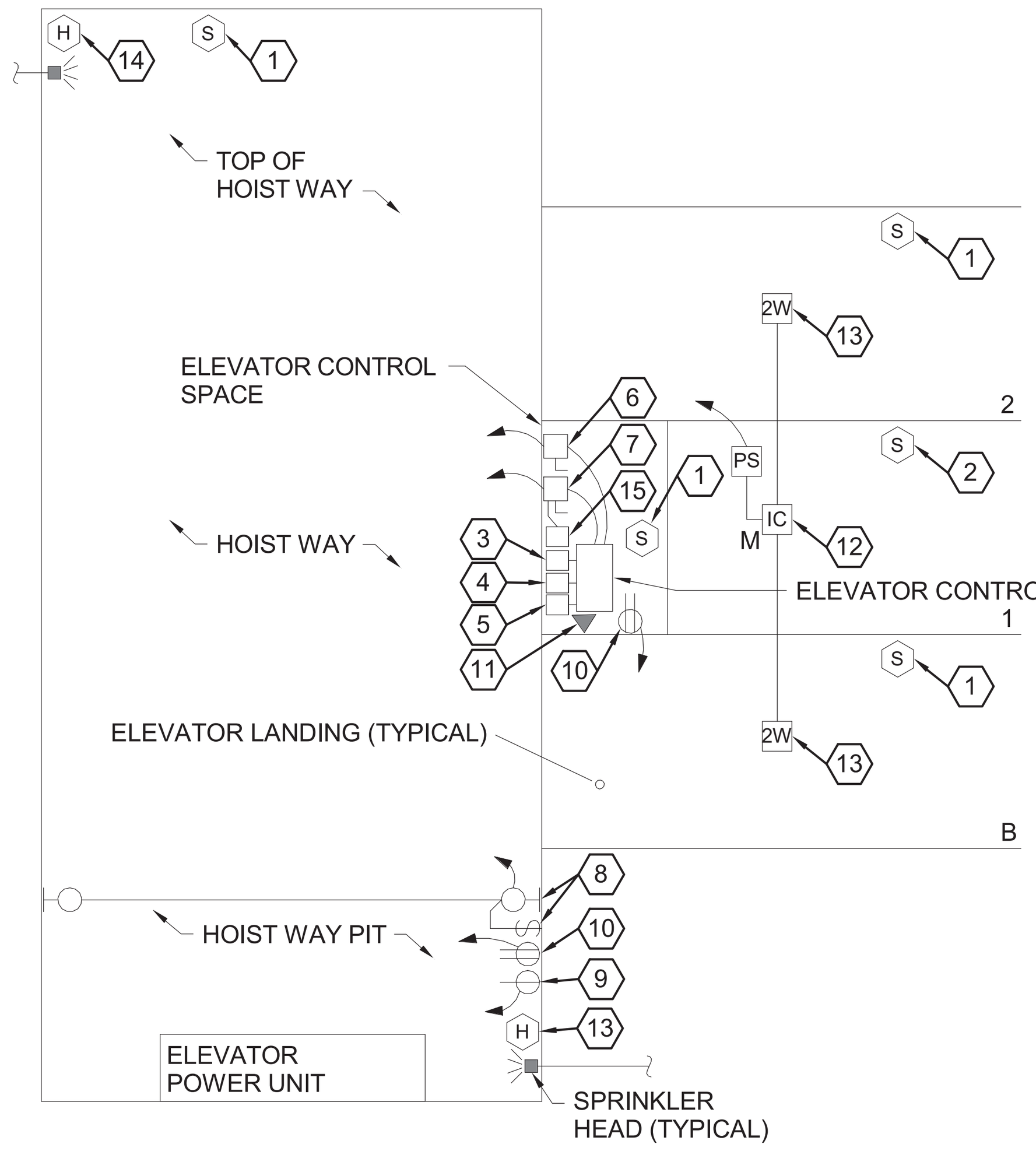
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

ELECTRICAL ONE LINE DIAGRAM

SHEET NO. E6.01



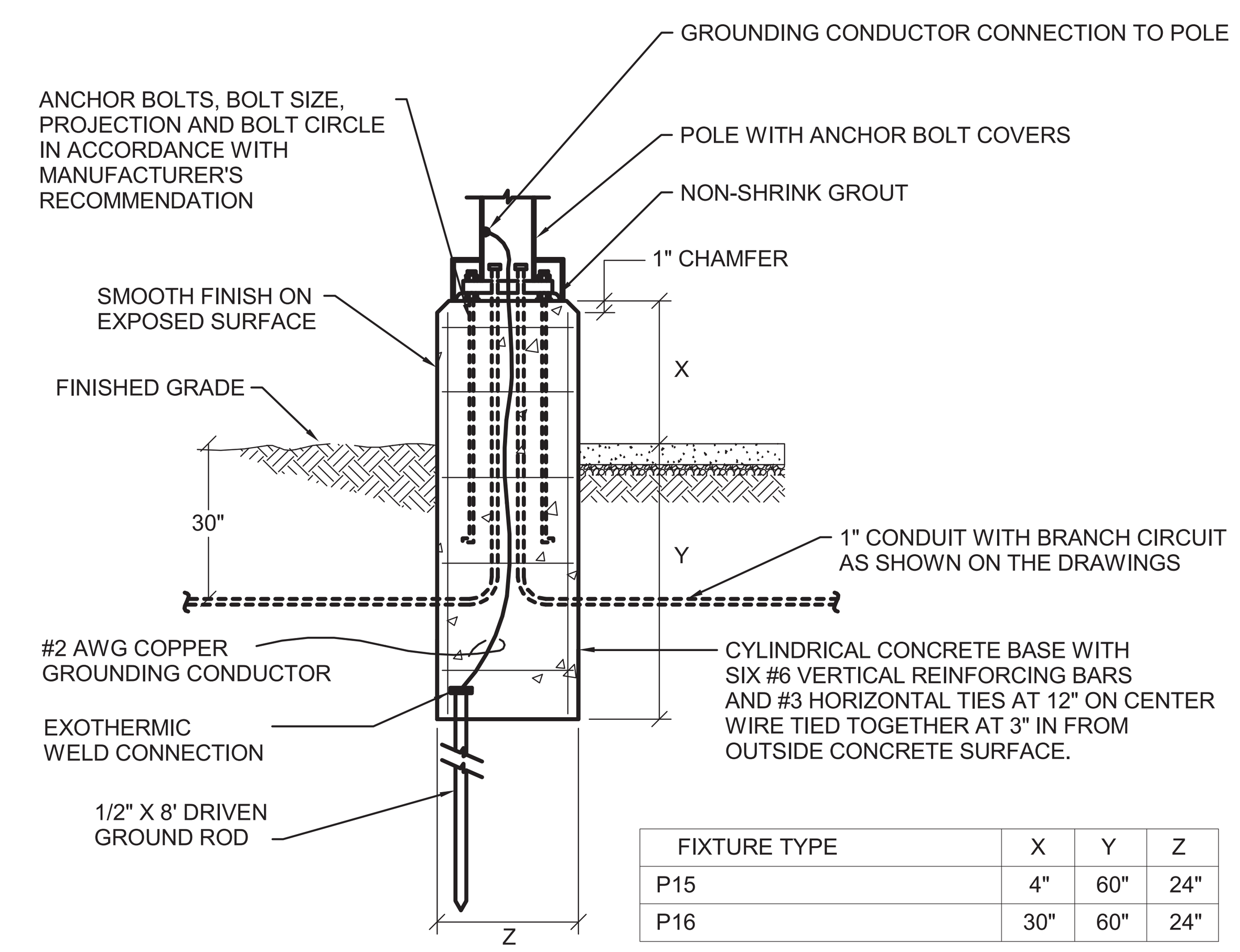
GENERAL NOTES

1. PROVIDE NON-ADDRESSIBLE INITIATING DEVICES (SMOKE OR HEAT DETECTOR) WHERE DEVICES ARE LOCATED IN UN-HEATED SPACES. LOCATE ASSOCIATED ZONE MODULE IN HEATED SPACE.
2. ALL CONDUIT TO BE RIGID GALVANIZED STEEL, AND ALL BOXES NEMA 4 RATED, ALL LIGHT FIXTURES TO BE WET LOCATION LISTED, ALL OUTLETS AND DEVICES TO HAVE WET LOCATION WHILE-IN-USE COVERS IN ELEVATOR MACHINE ROOM AND HOIST WAY.
3. COORDINATE EXACT LOCATION OF DEVICES IN PIT AND HOIST WAY WITH ELEVATOR INSTALLATION DRAWINGS PRIOR TO ROUGH-IN.
4. LOCATE ELEVATOR DISCONNECT AND CAB LIGHTS/REC/HVAC DISCONNECT IMMEDIATELY ADJACENT TO DOOR ENTERING MACHINE SPACE.
5. PROVIDE AUXILIARY CONTACTS IN ELEVATOR DISCONNECT WHEN BATTERY LOWERING SYSTEM IS PROVIDED, WIRE COMPLETE TO ELEVATOR CONTROLLER.
6. ALL DISCONNECTS SHALL BE LOCKABLE IN THE OPEN POSITION.

CODED NOTES

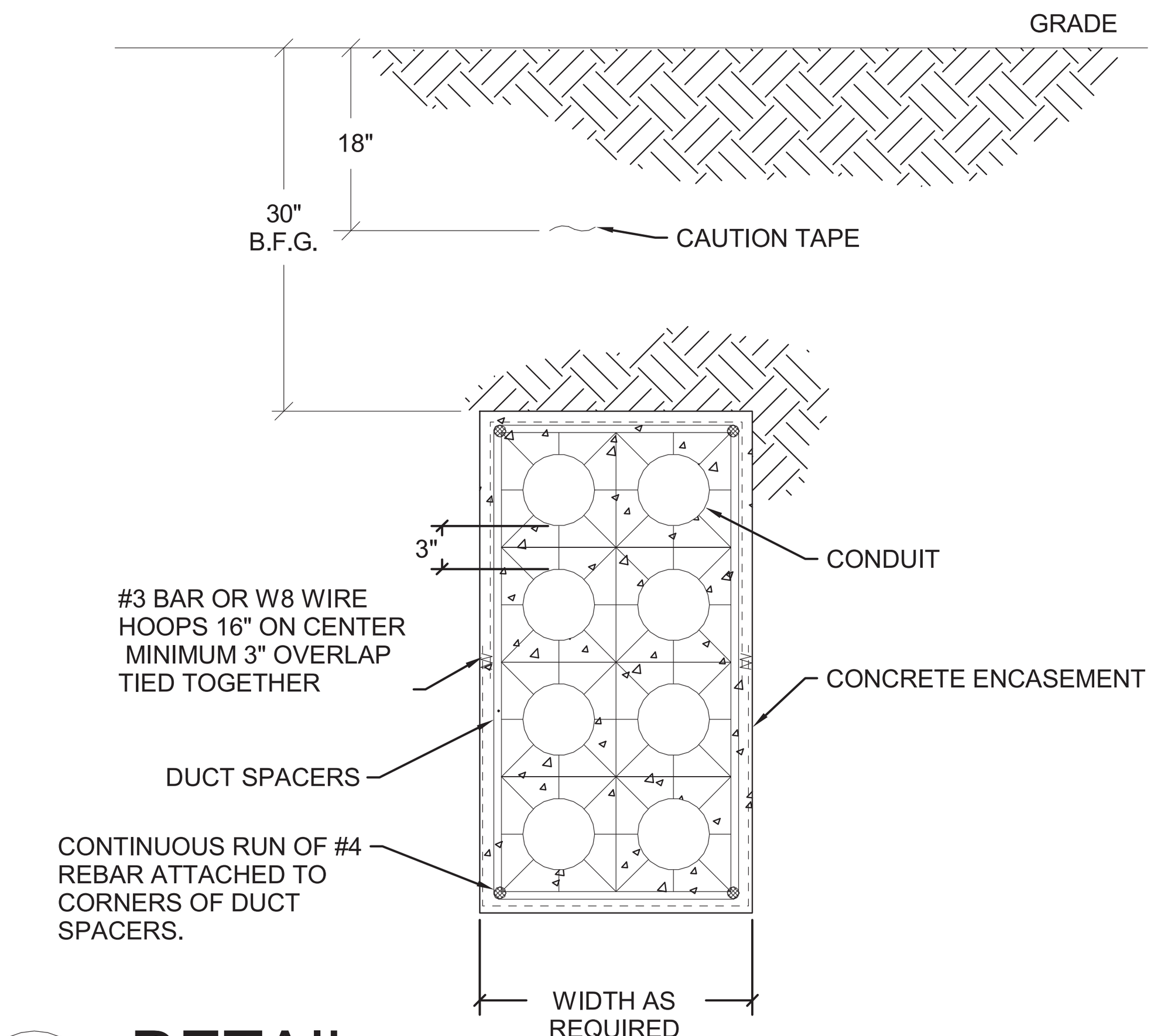
1. SMOKE DETECTOR SHALL ACTIVATE ILLUMINATED VISUAL AND AUDIBLE SIGNAL (FIREMAN'S HELMET) IN ELEVATOR CAB, AND INITIATE RECALL TO PRIMARY RECALL FLOOR.
2. SMOKE DETECTOR SHALL ACTIVATE ILLUMINATED VISUAL AND AUDIBLE SIGNAL (FIREMAN'S HELMET) IN ELEVATOR CAB, AND INITIATE RECALL TO ALTERNATE RECALL FLOOR.
3. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE AUDIBLE/VISUAL (FIREMAN'S HELMET) SIGNAL TO ELEVATOR CONTROL PANEL.
4. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE ELEVATOR PRIMARY RECALL SIGNAL TO ELEVATOR CONTROL PANEL.
5. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE ELEVATOR SECONDARY RECALL SIGNAL TO ELEVATOR CONTROL PANEL.
6. FUSIBLE ELEVATOR CAB DISCONNECT SWITCH TO SERVE CAB LIGHTS, RECEPTACLE AND EXHAUST FAN (IF APPLICABLE). PROVIDE 30 AMP, SINGLE POLE, FUSIBLE DISCONNECT WITH 15 AMP FUSES.
7. FUSIBLE ELEVATOR DISCONNECT SWITCH WITH INTEGRAL SHUNT TRIP OPERATOR. SHUNT TRIP CIRCUIT SHALL BE N.C. MECHANICALLY INTERLOCKED AUXILIARY CONTACT. PROVIDE SUPERVISORY FIRE ALARM MONITORING OF POWER SOURCE TO SHUNT TRIP OPERATOR.
8. VAPORTIGHT LIGHT FIXTURE AND SWITCH. LOCATE SWITCH NEAR ENTRY TO SPACE. (TYPICAL)
9. NON-GF SIMPLEX OUTLET FOR SUMP PUMP.
10. DUPLEX GF OUTLET.
11. VOICE OUTLET WITH 2 ANALOG TELEPHONE LINES TIED TO ELEVATOR CONTROLLER.
12. TWO-WAY ADA ELEVATOR INTERCOM COMMAND STATION IN MAIN EGRESS FLOOR ELEVATOR LOBBY.
13. TWO-WAY ADA ELEVATOR INTERCOM CALL STATION IN EACH ELEVATOR LOBBY.
14. 135° F HEAT DETECTOR LOCATED WITHIN 2' OF EACH 165° F SPRINKLER HEAD FOR SHUNT TRIP OPERATION IN ELEVATOR DISCONNECT. VERIFY THAT RATING IS LESS THAN THE RATING OF THE SPRINKLER.
15. FIRE ALARM INDIVIDUAL ADDRESSABLE MODULE TO MONITOR ELEVATOR SHUNT TRIP CIRCUIT IN ELEVATOR DISCONNECT AND INDIVIDUAL ADDRESSABLE MODULE RELAY TO ACTIVATE ELEVATOR SHUNT TRIP.

1 DETAIL
HYDRAULIC MACHINEROOMLESS ELEVATOR — N.T.S.

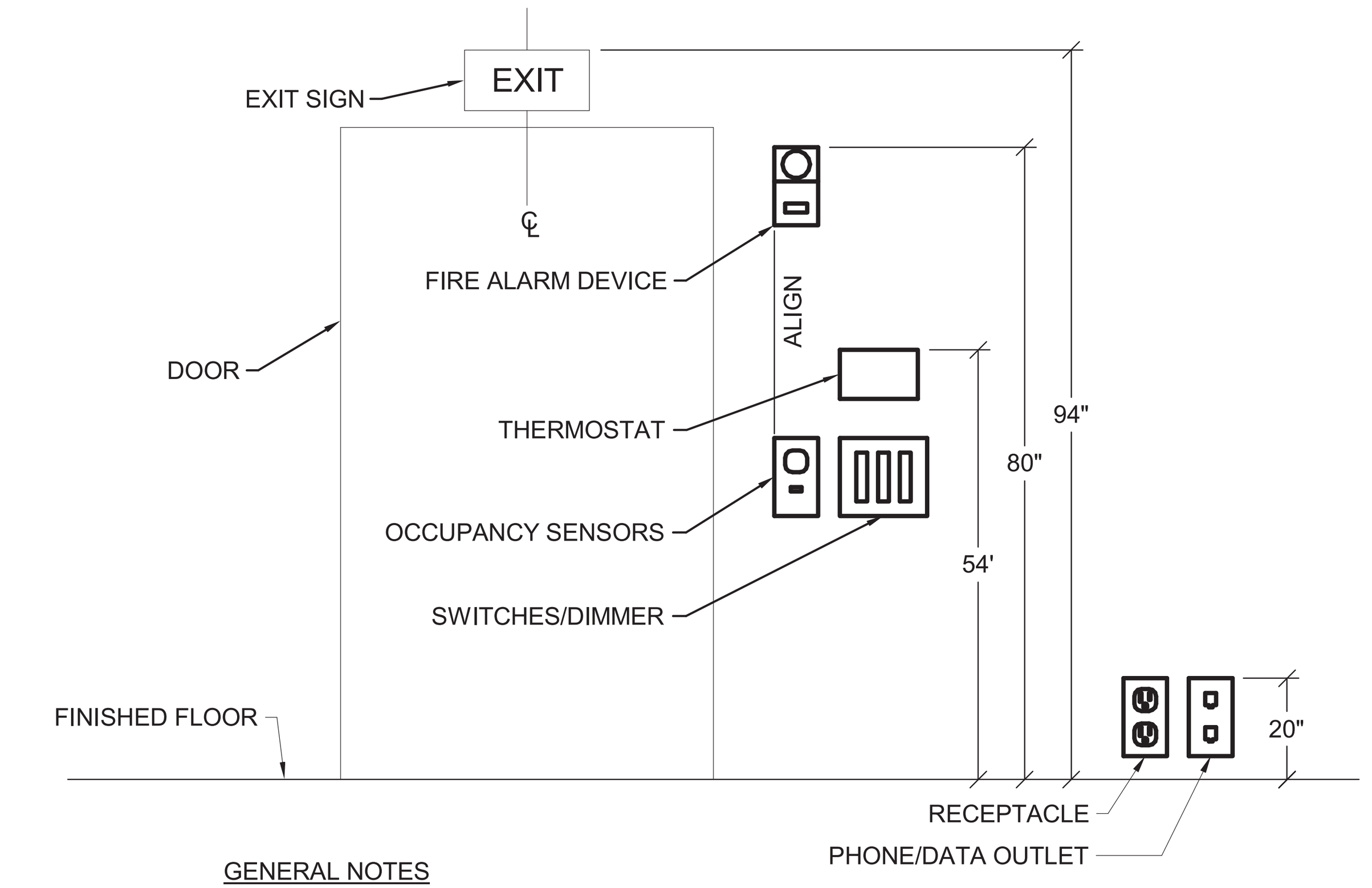


FIXTURE TYPE	X	Y	Z
P15	4"	60"	24"
P16	30"	60"	24"

2 DETAIL
POLE MOUNTED LUMINAIRE BASE — N.T.S.



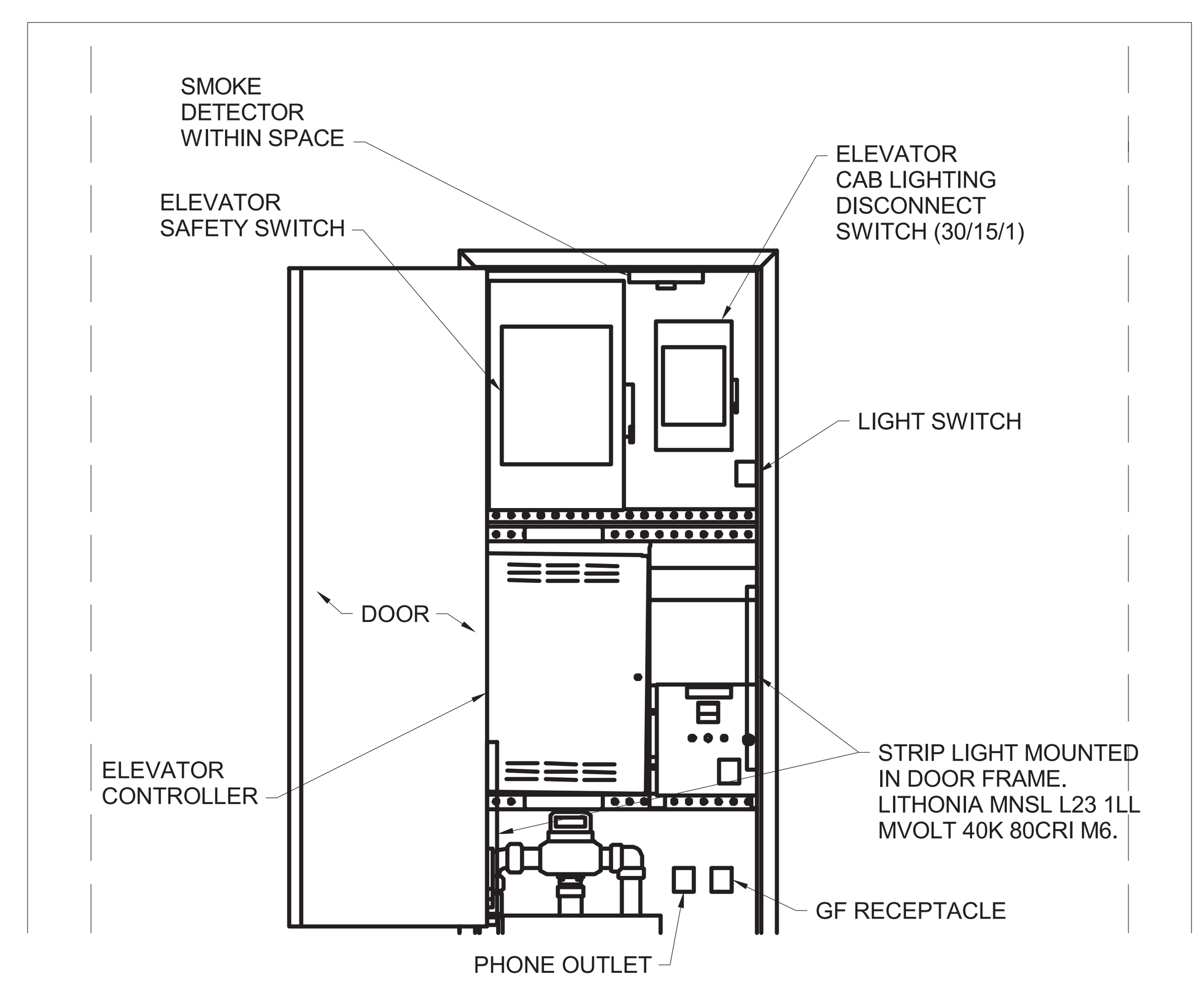
3 DETAIL
DUCTBANK SECTION - TYPICAL — N.T.S.
SIZE AND QUANTITY MAY VARY REFER TO SITE PLAN



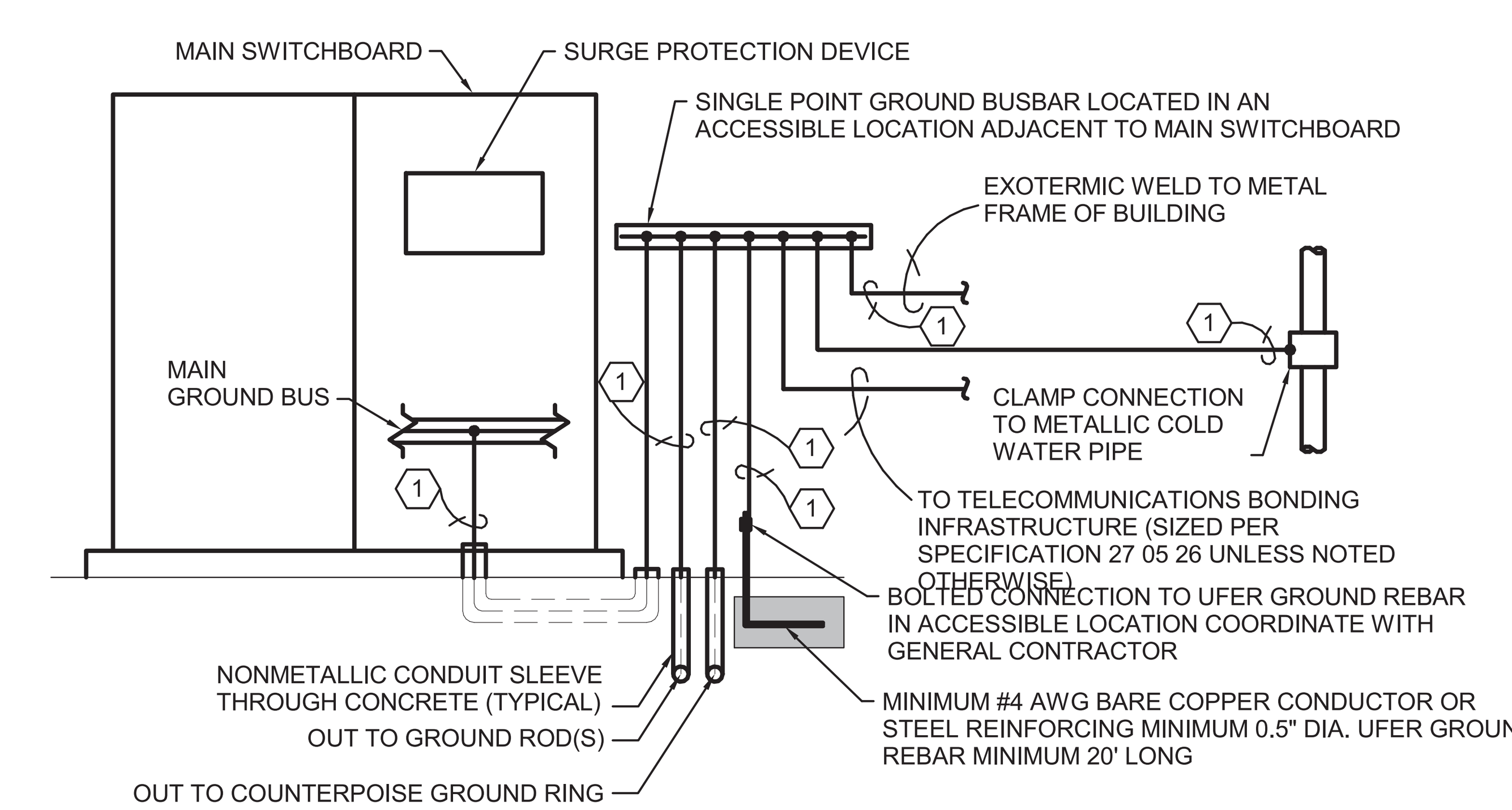
GENERAL NOTES

1. ALL SIMILAR DEVICES SHALL BE GANGED TOGETHER WHERE POSSIBLE.
2. ALL WIRING DEVICE PLATES SHALL BE OF THE SAME COLOR AND STYLE.
3. DEVICES SHALL BE ALIGNED VERTICALLY. OFFSET CONDUITS WITHIN WALL AS NECESSARY.
4. LIGHT SWITCHES SHALL BE LOCATED WITHIN 12" OF THE STRIKE SIDE OF DOOR FRAME, OR IF NOT POSSIBLE, THEN WITHIN 12" OF THE OPEN DOOR SWING ON HINGE SIDE WALL.
5. PHONE/DATA/VIDEO OUTLETS SHALL BE LOCATED IMMEDIATELY ADJACENT TO DUPLEX RECEPTACLES.

4 DETAIL
DEVICE COORDINATION — N.T.S.



5 ELEVATION
ELEVATOR CONTROLLER SPACE FOR "MACHINE-ROOM-LESS" WITH CONTROLLER IN DOORWAY — N.T.S.



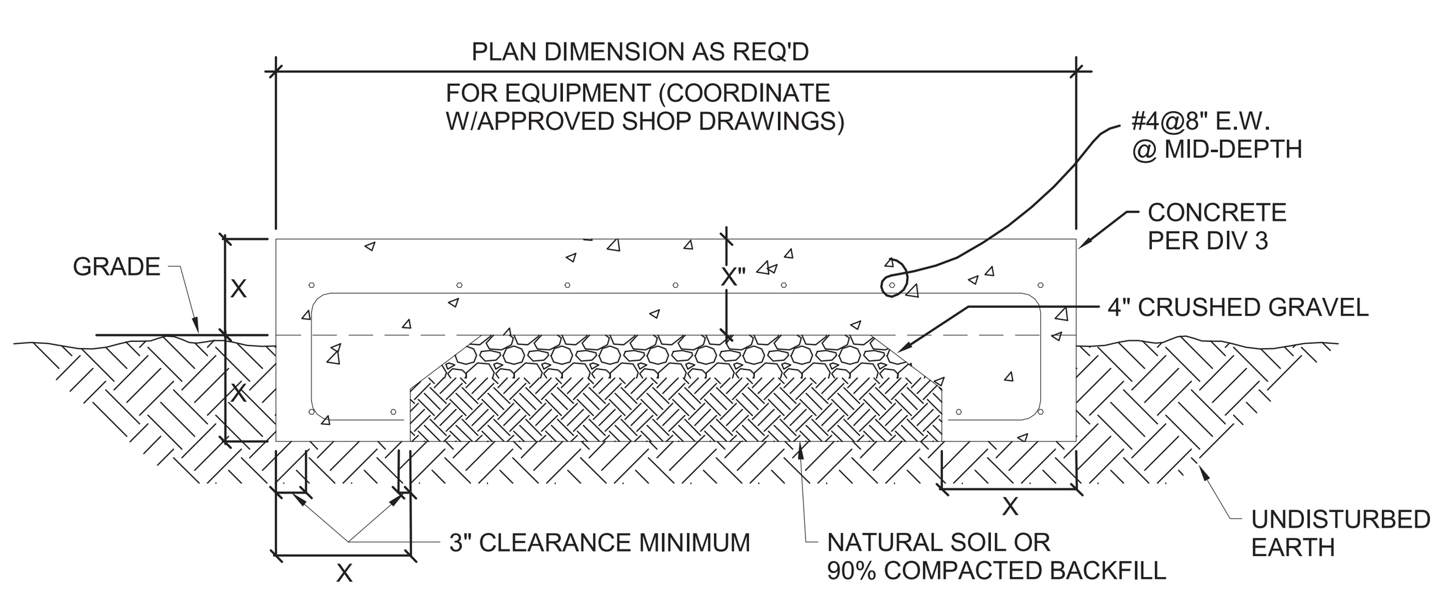
CODED NOTES

1. #__________ AWG SIZED PER NEC TABLE 250.66.
2. #4 AWG MINIMUM.

GENERAL NOTES

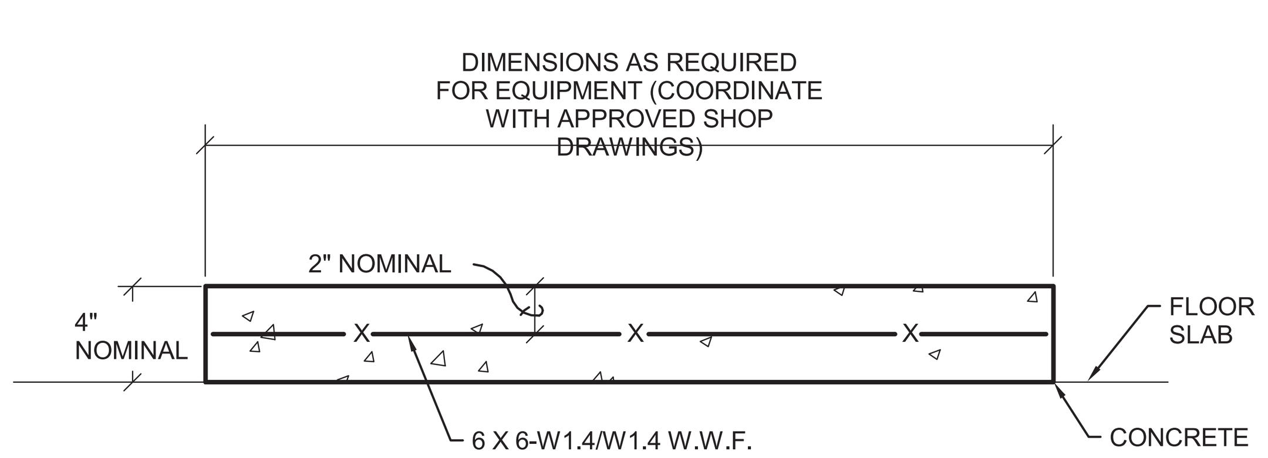
1. PROVIDE GROUNDING ELECTRODES PER NEC 250.52.
2. INSTALL GROUNDING SYSTEM PER NEC 250.53.

6 DETAIL
GROUNDING BUSBAR AT SWITCHBOARD — N.T.S.



X	EQUIPMENT
12"	OPTIONAL STANDBY GENERATOR
4"	15 KV SWITCH OR TRANSFORMER

7 DETAIL
EXTERIOR ELECTRICAL EQUIPMENT CONCRETE BASE — N.T.S.



8 DETAIL
ELECTRICAL EQUIPMENT HOUSEKEEPING PAD INTERIOR — N.T.S.

REVISIONS

02.25.2022	BID DOCUMENTS
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

STATE OF OHIO — STANLEY J. MONK — E-51379 — REGISTERED PROFESSIONAL ENGINEER
2/25/2022

CONFORMED DOCUMENTS

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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	11/30/2021

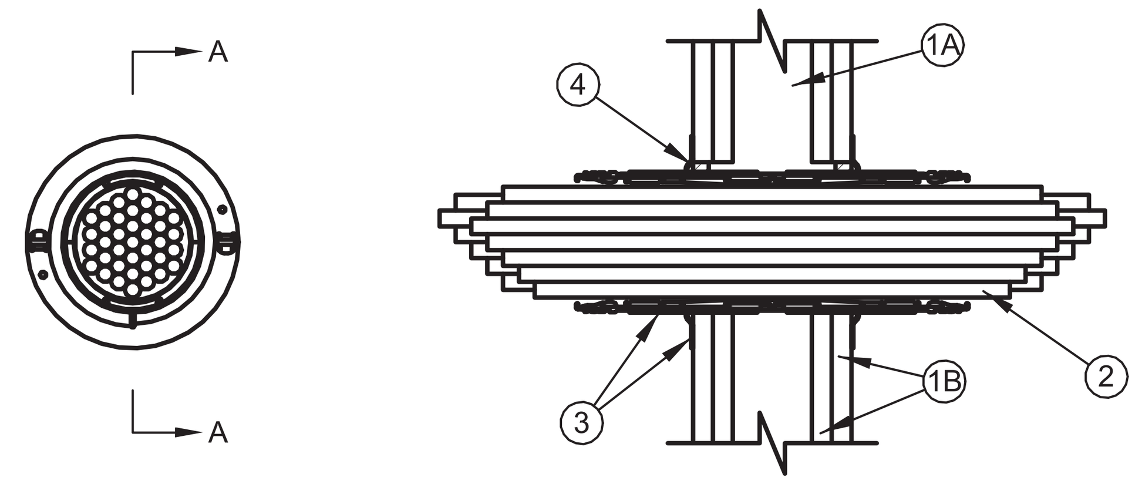
ELECTRICAL DETAILS

SHEET NO.
E7.01

System No. W-L-3334

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

ANSI/UL1479 (ASTM E814)	CAN/ULC S115
F Ratings - 1, 2, 3 and 4 Hr (See Item 1)	F Ratings - 1, 2, 3 and 4 Hr (See Item 1)
T Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)	FT Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
L Rating At Ambient - Less Than 1 CFM (See Item 2)	FH Ratings - 1, 2, 3 and 4 Hr (See Item 1)
L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)	FTH Ratings - 0, 1, 1-3/4, 2, 3 and 4 Hr (See Items 2 and 3)
	L Rating At Ambient - Less Than 1 CFM (See Item 2)
	L Ratings At 400 F - 1 and Less Than 1 CFM (See Item 2)



SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described within the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall incorporate the following construction features:
   A. Studs — Wall framing shall consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced max 16 in. (406 mm) OC. Steel studs to be min 2-1/2 in. (64 mm) wide and spaced max 24 in. (610 mm) OC for 1 and 2 hr wall assemblies. Steel Studs to be 3-5/8 in. (92 mm) for 3 and 4 hr wall assemblies.
   B. Gypsum Board* — Nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Opening in gypsum board to be max 2-1/2 in. (64 mm) diam for 2" device and max 4-1/2 in. (114 mm) diam for 4" device.
   The hourly F and FH Ratings of the firestop system are dependent upon the hourly rating of the wall in which it is installed.
2. Cables — Within the loading area for each firestop device, the cables may represent a 0 to 100 percent visual fill. Cables to be tightly bundled within the device and rigidly supported on both sides of wall assembly. Any combination of the following types of cables may be used:
   A. Max 100 pair No. 24 AWG (or smaller) copper conductor telecommunication cable with polyvinyl chloride (PVC) jacketing and insulation.
   B. Max 7/C No. 12 AWG copper conductor control cable with PVC or XLPE jacket and insulation.
   C. Max 4/0 AWG Type RHH ground cable.
   D. Max 4 pr No. 22 AWG Cat 5 or Cat 6 computer cables.
   E. Max RG 6/U coaxial cable with fluorinated ethylene insulation and jacketing.
   F. Fiber optic cable with polyvinyl chloride (PVC) or polyethylene (PE) jacket and insulation having a max diam of 1/2 in. (13 mm).
   G. Max 20/C No. 22 AWG shielded printer cable with PVC jacket.
   H. Through-Penetrating Product* - Two copper conductors No. 18 AWG (or smaller) Power or Non Power Limited Fire Alarm Cable with or without a jacket under a metal armor.
   AFC CABLE SYSTEMS INC
   I. Max. 1/4 in. (6 mm) diameter S-Video Cable consisting of 2 max 24 AWG 75 ohm coax or twisted pair cable with PE insulation and PVC jacket .
   J. Max 3/C No 12 AWG MC Cable.
   K. Through Penetrating Product* — Any cables, Armored Cable+ or Metal Clad Cable+ currently Classified under the Through Penetrating Product category. See Through Penetrating Product (XHLY) category in the Fire Resistance Directory for names of manufacturers.

For opening with cables, when the hourly rating of the wall assembly is 1 hr, the T, FT and FTH Ratings are 0 hr. For opening with cables, when the hourly rating of the wall assembly is 2 hr, the T, FT and FTH Ratings are 1-3/4 hr except that, when Item 2C, 2G, 2I, 2J or 2K is used, the T, FT and FTH Ratings are 1 hr for 2C, 2 OR 2I and the T, FT and FTH Ratings are 1/2 hr for 2J or 2 K (see Item 3 also). When the hourly rating of the wall assembly is 3 or 4 hr, the T, FT and FTH Ratings are 2 hr. For wall assemblies with a 3 or 4 hr rating, Items 2G and 2I are not to be used.

L Ratings apply only when device flanges and CP 606 or FS-One Sealant are used. See Table below for L Ratings.

Max Cable Fill	Cable Type	L Rating, CFM/Sq Ft		L Rating, CFM	
		Ambient	400°F	Ambient	400°F
0%	-	Less Than 1	Less Than 1	Less Than 1	Less Than 1
100%	Item 2D only	5	1	Less Than 1	Less Than 1
100%	Any cables (Item 2) in any combination	9	10	Less Than 1	1

3. Firestop Device* — Firestop device consists of a corrugated steel tube with an inner plastic housing, intumescent material rings and twisted inner fabric smoke seal. Firestop device to be installed in accordance with the accompanying installation instructions. As an option, the inner fabric seal may remain open except that, to attain the L Rating, the inner fabric seal shall be twisted to completely close off the opening within device. Device slid into wall such that ends project an equal distance from the approximate centerline of the wall assembly. The annular space between the device and the periphery of the opening shall be min 0 in. (point contact). Device provided with flanges that are spun clockwise onto device threads, butting tightly to both sides of wall. Device flanges are optional. When the device flanges are not used, the T, FT and FTH Ratings for the firestop system are 0 hr. For blank opening (no cables), the T, FT and FTH Ratings for the firestop system equal the F and FH Ratings only when the device flanges are used.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — CP 653 2" Speed Sleeve and CP 653 4" Speed Sleeve
4. Fill, Void or Cavity Material* - Sealant — Min 1/2 in. (13 mm) thickness of fill material applied within the annulus between firestop device and wall, flush with both surfaces of wall, and an additional 1/4 in. (6 mm) bead applied around periphery of device. When device flanges are used, gypsum drywall compound may be used in place of the fill material.
   HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-ONE or CP 606 Sealant

*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. March 14, 2012

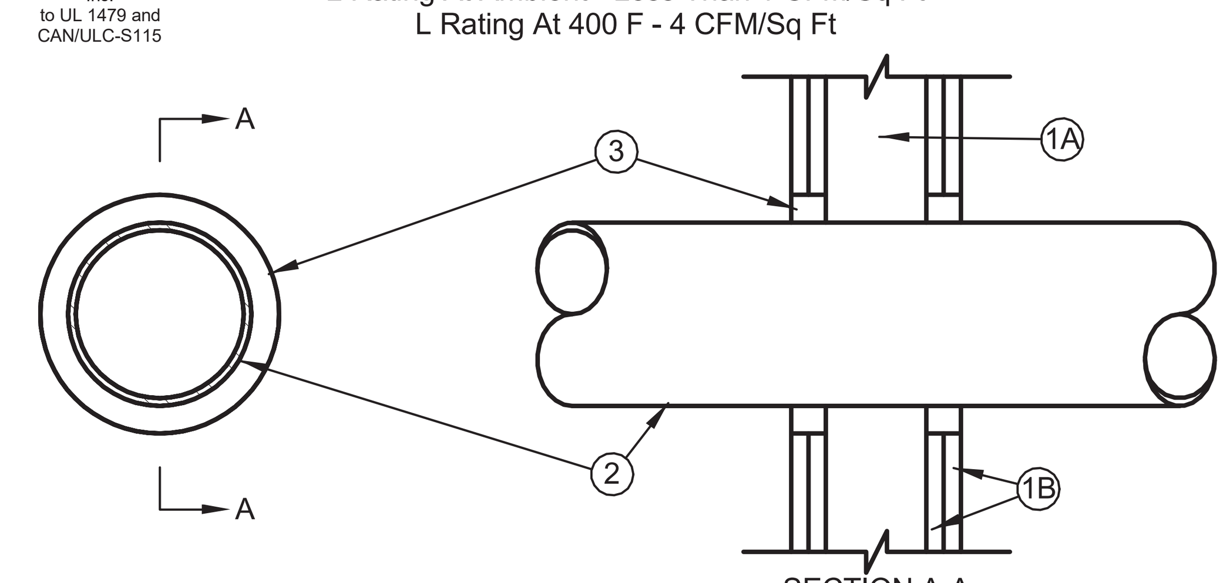
1 DETAIL

UL LISTED THROUGH WALL PENETRATION N.T.S.

System No. W-L-1054

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

F Ratings - 1 and 2 Hr (See Items 1 and 3)
T Rating - 0 Hr
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Wall Assembly -- The 1 or 2 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC. When steel studs are used and the diam of opening exceeds the width of stud cavity, the opening shall be framed on all sides using lengths of steel stud installed between the vertical studs and screw-attached to the steel studs at each end. The framed opening in the wall shall be 4 to 6 in. wider and 4 to 6 in. higher than the diam of the penetrating item such that, when the penetrating item is installed in the opening, a 2 to 3 in. clearance is present between the penetrating item and the framing on all four sides.
   B. Gypsum Board* -- 5/8 in. thick, 4 ft wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 32-1/4 in. for steel stud walls. Max diam of opening is 14-1/2 in. for wood stud walls. The F Rating of the firestop system is equal to the fire rating of the wall assembly.
2. Through-Penetrants -- One metallic pipe, conduit or tubing to be installed either concentrically or eccentrically within the firestop system. The annular space shall be min 0 in. to max 2-1/4 in. Pipe may be installed with continuous point contact. Pipe, conduit or tubing may be installed at an angle not greater than 45 degrees from perpendicular. Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:
   A. Steel Pipe -- Nom 30 in diam (or smaller) Schedule 10 (or heavier) steel pipe.
   B. Iron Pipe -- Nom 30 in. diam (or smaller) cast or ductile iron pipe.
   C. Conduit -- Nom 4 in diam (or smaller) steel electrical metallic tubing or 6 in. diam steel conduit.
   D. Copper Tubing -- Nom 6 in. diam (or smaller) Type L (or heavier) copper tubing.
   E. Copper Pipe -- Nom 6 in. diam (or smaller) regular (or heavier) copper pipe.
3. Fill, Void or Cavity Material* -- Sealant -- Min 5/8 in. thickness of fill material applied within the annulus, flush with both surfaces of wall. At the point or continuous contact locations between pipe and wall, a min 1/2 in. diam bead of fill material shall be applied at the pipe wall interface on both surfaces of wall .

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. December 4, 2002

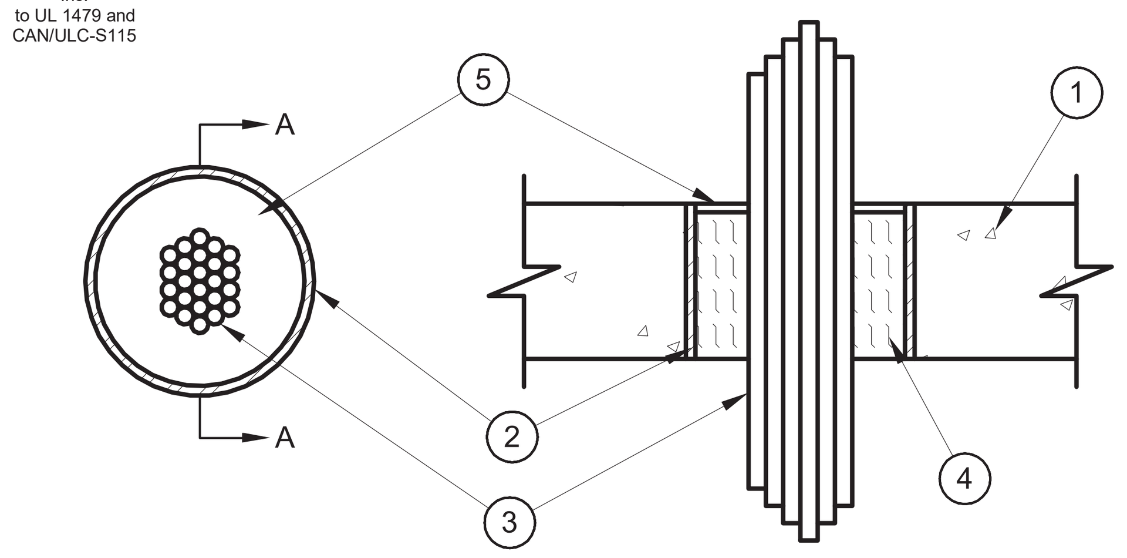
2 DETAIL

UL LISTED THROUGH WALL PENETRATION N.T.S.

System No. C-AJ-3180

Classified by Underwriters Laboratories, Inc. to UL 1479 and CAN/ULC-S115

F Rating - 3 Hr
T Rating = 0 Hr



SECTION A-A

1. Floor or Wall Assembly — Min 4-1/2 in. (114 mm) thick reinforced lightweight or normal weight (100-150 pcf or 1600 2400 kg/m3) concrete floor or min 4-3/4 in. (121 mm) thick reinforced lightweight or normal weight concrete wall. Wall may also be constructed of any UL Classified Concrete Blocks*. Max diam of opening is 6 in.(152 mm). See Concrete Blocks (CAZT) category in the Fire Resistance Directory for names of manufacturers.
2. Steel Sleeve — (Optional) — Nom 6 in. (152 mm) diam (or smaller) Schedule 40 (or heavier) steel pipe cast or grouted into floor or wall assembly, flush with floor or wall surfaces.
3. Cables — Aggregate cross-sectional area of cables in opening to be max 45 percent of the aggregate cross-sectional area of the opening. Cables to be rigidly supported on both sides of floor or wall assembly. Any combination of the following types and sizes of metallic conductor or fiber optic cable may be used:
   A. Max 500 kcmil single copper connector power cable with thermoplastic insulation and polyvinyl chloride (PVC) j Jacket.
   B. Max 300 pair No. 24 AWG copper conductor telecommunication cables with polyvinyl chloride (PVC) insulation and jacket material.
   C. Max 7/C copper conductor No. 12 AWG multiconductor power and control cables with polyvinyl chloride (PVC) or cross-linked polyethylene (XLPE) insulation and PVC jacket.
   D. Multiple fiber optical communication cables jacketed with PVC and having a max outside diam of 1/2 in. (13 mm).
   E. Max 3/C copper conductor No. 12 AWG with bare aluminum ground, polyvinyl chloride (PVC) insulated steel, Metal-clad cable.
   F. Max 3/C with ground 2/0 AWG copper conductor SER cable with cross-linked polyethylene (XLPE) insulation and polyvinyl chloride (PVC) jacket.
   G. RG/U coaxial cable with polyethylene (PE) insulation and polyvinyl chloride (PVC) jacket having a max outside diameter of ½ in. (13 mm)
   H. Fire Resistive Cables* - Max 1-1/4 in. (32 mm) diam single conductor or multi conductor Type MI cable. A min 1/8 in. (3 mm) separation shall be maintained between MI cables and any other types of cable.
4. Packing Material — Min 4-1/4 in. (108 mm) thickness of min 4 pcf (64 kg/m3) mineral wool batt insulation firmly packed into opening as a permanent form. Packing material to be recessed from top surface of floor to accommodate the required thickness of fill material.
5. Fill, Void or Cavity Material* — Sealant — Min 1/4 in. (6.4 mm) thickness of fill material applied within the annulus, flush with top surface of floor or with both surfaces of wall.

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC — FS-One Sealant.
*Bearing the UL Classification Mark

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. October 23, 2006

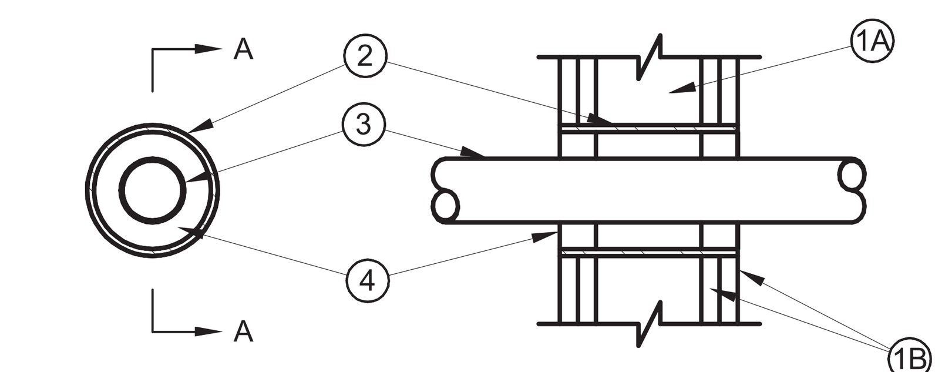
3 DETAIL

UL LISTED THROUGH WALL PENETRATION N.T.S.

System No. W-L-2075

Classified by Underwriters Laboratories, Inc. to UL 1479

F Ratings - 1 & 2 Hr (see Item 4)
T Ratings - 0 and 2 Hr (see Item 4)
L Rating At Ambient - Less Than 1 CFM/Sq Ft
L Rating At 400 F - 4 CFM/Sq Ft



SECTION A-A

1. Floor or Wall Assembly -- The fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300 or U400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:
   A. Studs -- Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. lumber spaced 16 in. OC. Steel studs to be min 2-1/2 in. wide and spaced max 24 in. OC.
   B. Gypsum Board* -- Nom 5/8 in. thick gypsum wallboard, as specified in the individual Wall and Partition Design. Max diam of opening is 4 in.
2. Metallic Sleeve -- (Optional) -- Nom 4 in. diam (or smaller) Schedule 40 (or thinner) steel pipe cast into wall assembly with joint compound and installed flush with wall surfaces.
3. Electrical Nonmetallic Tubing+ -- Nom 2 in. diam (or smaller) corrugated wall electrical nonmetallic tubing (ENT) constructed of polyvinyl chloride (PVC). Tubing to be rigidly supported on both sides of wall assembly. A nom annular space of 3/4 in. is required within the firestop system.
   See Electrical Nonmetallic Tubing (FKHU) category in the Electrical Construction Materials Directory for names of manufacturers.
4. Fill, Void or Cavity Material* -- Sealant -- Installed symmetrically on both sides of the wall. The hourly F Rating of the firestop system is equal to the hourly fire rating of the wall assembly in which it is installed. Fill material applied within the annulus, flush with each end of the steel sleeve at the thickness shown in the table below:

F Rating Hr	T Rating Hr	Fill Mtl Depth In.
1	0	5/8
2	2	1-1/4

HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC -- FS-One Sealant
+Bearing the UL Listing Mark
*Bearing the UL Classification Marking

Hilti Firestop Systems

Reproduced by HILTI, Inc. Courtesy of Underwriters Laboratories, Inc. January 9, 2003

4 DETAIL

UL LISTED THROUGH WALL PENETRATION N.T.S.

REVISIONS

02.25.2022	BID DOCUMENTS
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Prairie S. Gallina
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

FOR OFFICIAL USE ONLY - Infrastructure Record
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ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	12/16/2021

ELECTRICAL DETAILS

SHEET NO.
E7.02

GENERAL NOTES - FIRE PROTECTION (APPLY TO ALL FIRE PROTECTION DRAWINGS)

1. THE SYSTEM DESIGN IS BASED ON THE LATEST EDITION OF THE OHIO BUILDING CODE INCLUDING ALL AMENDMENTS THROUGH THE DATE OF DRAWING ISSUE.

2. THE SPRINKLER DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO BE USED AS A GUIDELINE. THE CONTRACTOR WILL BE RESPONSIBLE FOR LOCATING AND COORDINATING SPRINKLER MAINS AND BRANCHES, THE EXACT NUMBER OF SPRINKLER HEADS AND EXACT PIPE SIZE BASED UPON THE HYDRAULIC CALCULATIONS TO MEET ALL GUIDELINES SET BY THE OWNER'S REQUIREMENTS, BUILDING CODES AND THE AUTHORITY HAVING JURISDICTION.

3. AUTOMATIC SPRINKLER PROTECTION FOR ALL AREAS OF THIS CONTRACT WILL BE PROVIDED BY THE FIRE PROTECTION CONTRACTOR. ALL AREAS ARE TO BE FULLY SPRINKLED.

4. PROVIDE AIR VENTS, DRAIN VALVES AND PIPING TO ALLOW COMPLETE DRAINAGE OF ALL FIRE PROTECTION SYSTEMS.

5. THE CONTRACTOR SHALL COORDINATE THE WORK WITH THE ARCHITECTURAL REFLECTED CEILING PLANS, ROOM FINISH SCHEDULES, STRUCTURAL DRAWINGS, MECHANICAL DRAWINGS AND ELECTRICAL DRAWINGS.

6. PROVIDE SPRINKLER HEADS & PIPING THROUGHOUT THE WORK AREA AS PER NFPA 13.

7. HAZARD CLASSIFICATIONS:

   A. LIGHT HAZARD:

   a. WET PIPE DENSITY = 0.10 GPM PER SQUARE FOOT. MAXIMUM AREA OF SPRINKLER DEMAND IS 1500 SQUARE FEET, MAXIMUM OF 225 SQUARE FEET SPRINKLER SPACING. 1/2" ORIFICE SPRINKLER.
   b. ORDINARY TEMP. HEADS, 165 DEG. F. 100 GPM HOSE DEMAND.

   B. ORDINARY HAZARD - GROUP 1:

   a. MECHANICAL ROOMS, ELECTRICAL ROOMS, STORAGE ROOMS.
   b. WET PIPE DENSITY = 0.15 GPM PER SQUARE FOOT. MAXIMUM AREA OF SPRINKLER DEMAND IS 1500 SQUARE FEET, MAXIMUM OF 130 SQUARE FEET SPRINKLER SPACING.
   c. WHEN USING QUICK RESPONSE SPRINKLER HEADS, NO REDUCTION IN SPRINKLER. AREA SHALL BE MADE.

8. THE FIRE PROTECTION CONTRACTOR WILL BE RESPONSIBLE FOR PROVIDING AN UP TO DATE FLOW TEST AT THE HYDRANT CLOSEST TO THIS BUILDING ONCE THE NEW WATER SERVICE HAS BEEN INSTALLED (ON THE MAIN SERVING THIS BUILDING).

   A. DESIGN FLOW TEST DATA: DATE: 12/10/2021
   B. LOCATION: HYDRANTS ON US Rte 68
   C. STATIC = **112** PSI RESIDUAL = **105** PSI FLOW = 1501 GPM
   D. APPROXIMATE ELEVATION: 7'-0" ABOVE FINISHED FLOOR

9. COORDINATE WITH ARCHITECTURAL FINISH SCHEDULE AND DETAILS.

   A. ALL HEADS SHALL BE QUICK RESPONSE TYPE.
   B. ALL AREAS SHALL BE SEMI-RECESSED SPRINKLER HEADS EXCEPT WHERE NOTED OTHERWISE.
   C. SPRINKLERS LOCATED IN DRYWALL SOFFITS SHALL BE FULLY CONCEALED TYPE AND SHALL BE INSTALLED CENTERED IN THE WIDTH OF THE SOFFIT AND ALIGNED WITH LIGHTS, DIFFUSERS AND OTHER FEATURES.
   D. FINISH IS TO BE [WHITE OR CHROME] FOR CONCEALED AND SEMI RECESSED.
   E. THE FIRE PROTECTION CONTRACTOR SHALL REFER TO THE REFLECTED CEILING PLAN FOR COORDINATION OF THE SPRINKLER HEAD LOCATIONS.
   F. EXPOSED SPRINKLERS IN STORAGE ROOMS, MECHANICAL ROOMS, AND SIMILAR SPACES SHALL BE PROVIDED WITH WIRE TYPE SPRINKLER HEAD GUARDS.

10. THE FIRE PROTECTION SYSTEM PIPING SHALL BE SIZED BY HYDRAULIC CALCULATIONS WITHIN THE LIMITS OF THE MAXIMUM ALLOWABLE SPRINKLER DEMAND FLOW AND A VAILABLE PRESSURE LISTED. THIS MEANS LARGER THAN NORMAL PIPE SIZES WILL BE REQUIRED TO MINIMIZE FRICTION LOSS IN THE PIPING SYSTEM AND REDUCE THE PRESSURE REQUIREMENT.

    A. ALL HYDRAULIC CALCULATION REFERENCE POINTS/NODES SHALL BE IDENTIFIED ON PLANS.
    B. NO TWO REFERENCE POINTS/NODES SHALL BE USED TWICE. PRESSURE REQUIREMENTS SHALL INCLUDE AN 8 PSI CUSHION.

11. WHERE POSSIBLE, THE SPRINKLER PIPING IS TO BE RUN IN BETWEEN THE CEILINGS AND THE STRUCTURAL STEEL. IN SOME CASES THIS IS NOT POSSIBLE, SO AS BUT NOT NECESSARILY LIMITED TO, SOME PORTIONS OF THE FIRST FLOOR LEVEL. IN SOME CASES, IT MAY BE REQUIRED TO CUT HOLES IN THE STRUCTURAL STEEL BEAMS. WHEN THIS IS TO OCCUR, REFERENCE THE BEAM PENETRATION DETAILS ON THE STRUCTURAL DRAWINGS.

12. ALL AREAS TO BE CLASSIFIED AS LIGHT HAZARD UNLESS OTHERWISE NOTED ON THE DRAWINGS.

13. ALL SPRINKLER PIPING ON SECOND LEVEL TO BE TIGHT TO ROOF DECK ABOVE AND ADJACENT AS POSSIBLE TO STRUCTURAL STEEL TO MINIMIZE VISUAL IMPACT. FOLLOW SLOPE OF ROOF WHEN RUNNING EAST-WEST.

FIRE PROTECTION SHEET INDEX

FIRE PROTECTION SYMBOLS LIST

NOTE: ALL SYMBOLS NOT NECESSARILY USED

GENERAL

- EXISTING TO REMAIN
- EXISTING TO BE REMOVED
- EXISTING TO BE ABANDONED

PIPING

- FIRE MAIN — F —
- COMB. FIRE & WATER SERVICE — FW —
- ANTIFREEZE — AF —
- STANDPIPE — SP —
- SPRINKLER PIPE — SPR —
- DRAIN — D —
- COMB. SPRINKLER & STANDPIPE — S —
- DRY PIPE — DP —
- DELUGE — DL —

SPECIALTIES

- FIRE EXTINGUISHER — FE
- FIRE EXTINGUISHER CABINET — FEC
- FIRE HOSE CABINET — FHC
- FIRE HOSE/EXTINGUISHER CABINET — FHEC
- FIRE HOSE RACK — FHR
- FIRE VALVE CABINET — FVC
- WATER MOTOR GONG
- ELECTRIC ALARM BELL
- GAUGE
- WALL TYPE SIAMESE CONNECTION
- TEST CONNECTION
- ROOF HYDRANT
- UNION
- SIGHT GLASS
- FIRE RATED OR WATER TIGHT PIPE SLEEVE
- DETECTOR CHECK VALVE — DC
- DETECTOR CHECK VALVE WITH BYPASS METER — DC, M
- PRESSURE SWITCH — PS
- STRAINER

VALVES

- ELECTRICALLY SUPERVISED VALVE
- CHECK VALVE
- GATE VALVE
- GLOBE VALVE
- PRESSURE REDUCING VALVE
- WET PIPE ALARM VALVE
- DRY PIPE ALARM VALVE
- DELUGE VALVE
- FIRE DEPARTMENT VALVE
- INSPECTOR'S TEST CONNECTION
- WALL INDICATOR VALVE
- FLOOR STAND VALVE
- FLOW SWITCH — F
- VALVE IN DROP
- VALVE IN RISE

SPRINKLER HEADS

- UPRIGHT
- PENDANT
- FLUSH/CONCEALED
- RECESSED
- SIDEWALL
- NON-FREEZE PENDANT — N
- NON-FREEZE SIDEWALL — N
- EXTENDED THROW SIDEWALL
- SPRINKLER HEAD WITH DEFLECTOR
- EXISTING SPRINKLER HEAD TO REMAIN — E
- EXISTING SPRINKLER HEAD TO BE REMOVED — R

MISCELLANEOUS

- CONNECT TO EXISTING
- DENOTES ITEM PROVIDED BY ANOTHER CONTRACTOR, SHOWN FOR COORDINATION OR REFERENCE — OC

REVISIONS
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

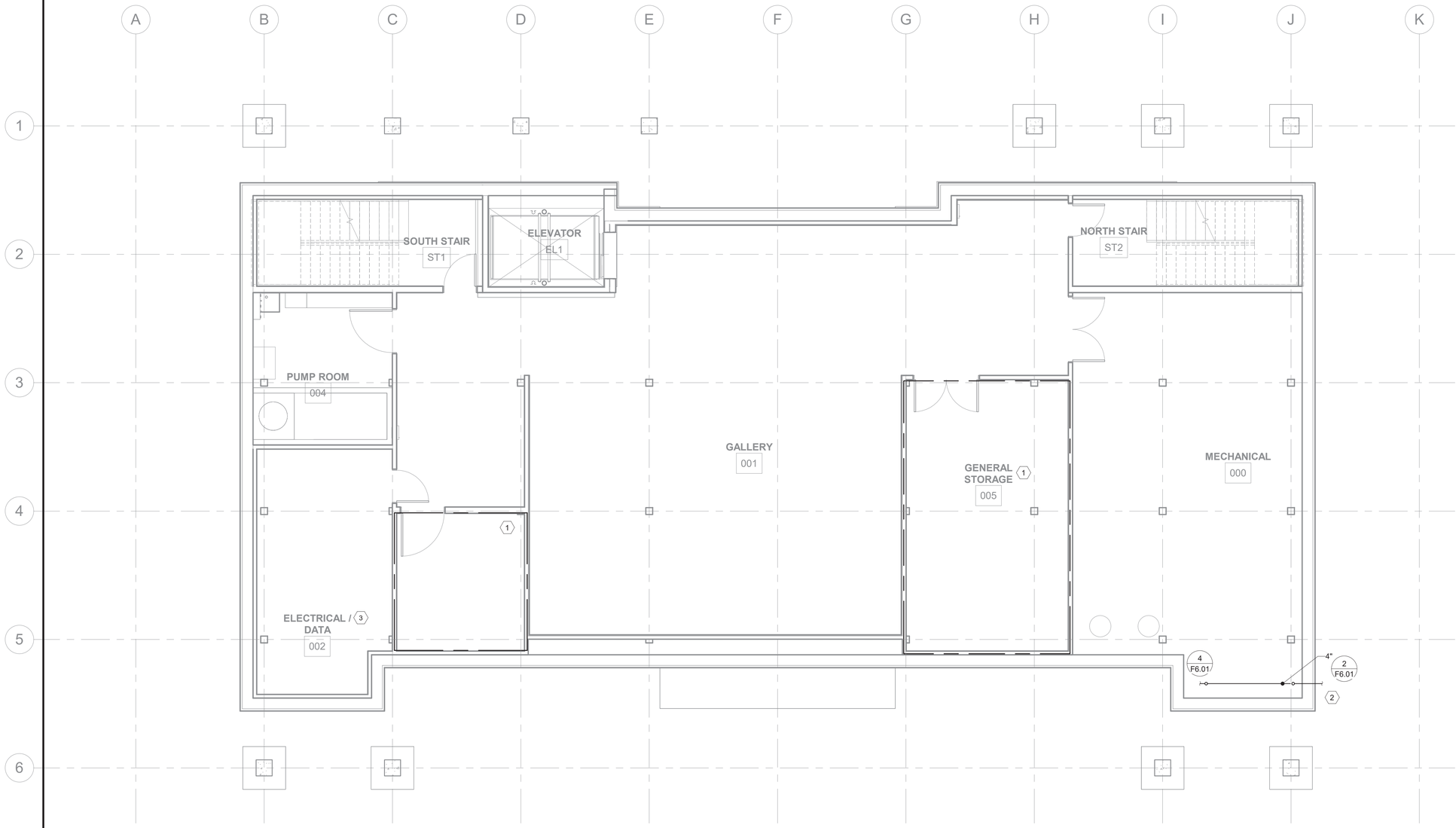
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	12" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

FIRE PROTECTION INDEX SHEET

SHEET NO. **F0.01**



1 FLOOR PLAN
LEVEL 0

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

N

CODED NOTES:

1. SPRINKLE AREA PER ORDINARY HAZARD GROUP 1 OCCUPANCY.
2. 4" LINE FOR FIRE PROTECTION. FIRE PROTECTION BACKFLOW PREVENTER TO BE PROVIDED BY FIRE PROTECTION CONTRACTOR, BUT WILL BE SHOWN ON CIVIL DRAWINGS. CONTINUATION ON CIVIL DRAWING. BACKFLOW PREVENTER TO BE LOCATED IN EXTERIOR METER PIT.
3. PROVIDE SIDEWALL SPRINKLER HEADS FOR COVERAGE OF THIS ROOM.

REVISIONS
06.16.2022 - CONFORMED SET

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1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

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Ohio Department of Natural Resources

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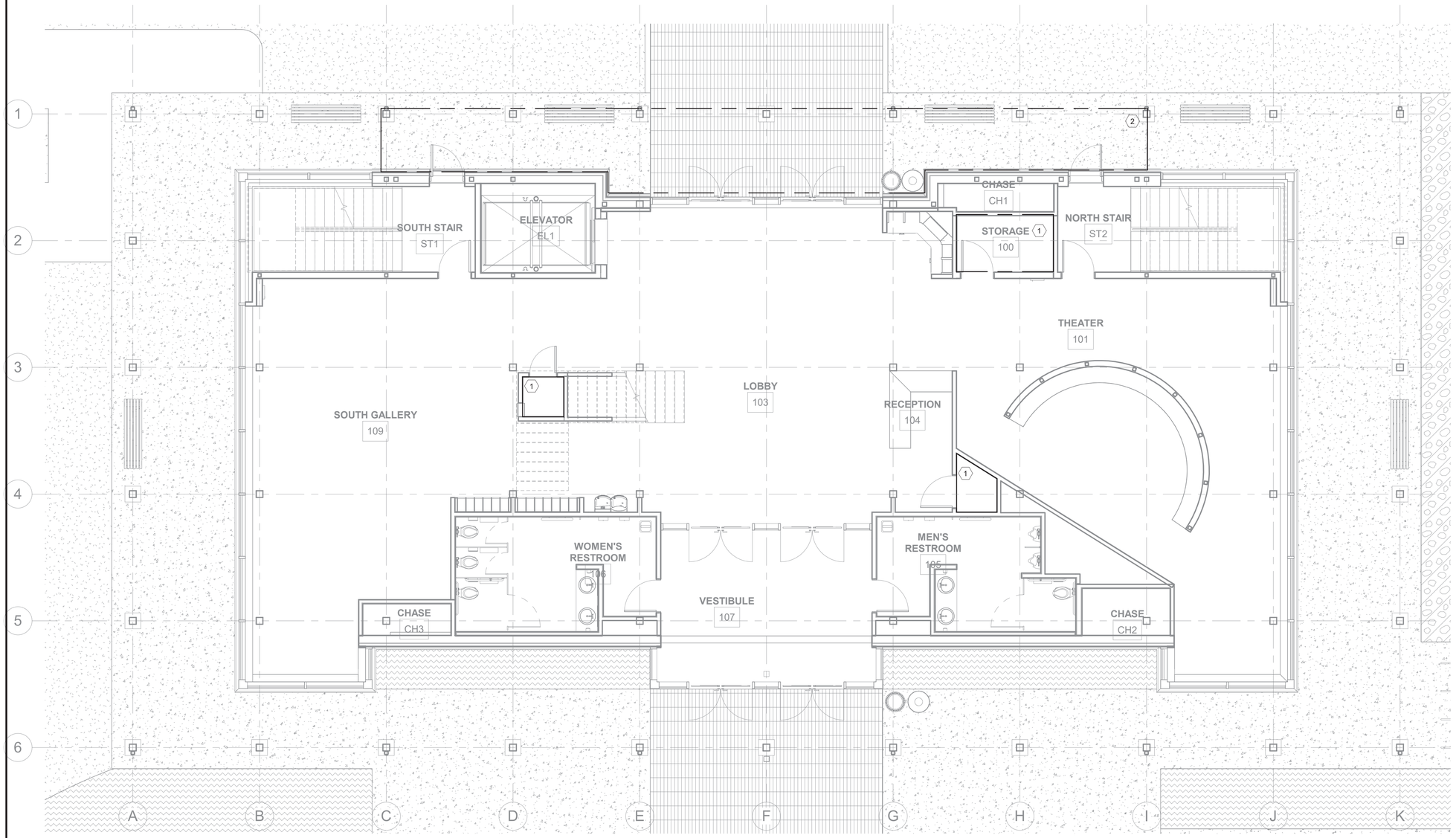
DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

LEVEL 0 FIRE PROTECTION PLAN

SHEET NO.
F2.00

CODED NOTES:

1. SPRINKLE ROOM PER ORDINARY HAZARD GROUP 1 OCCUPANCY.
2. PROVIDE COVERAGE FOR THIS AREA EXTERIOR TO THE BUILDING ENVELOPE WITH SIDEWALL DRY TYPE HEADS.



1 FLOOR PLAN
LEVEL 1

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

N

REVISIONS
06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Evan Frank
DESIGNED BY:	Evan Frank
CHECKED BY:	Phil Stafa
PROJECT NUMBER:	2021-0003

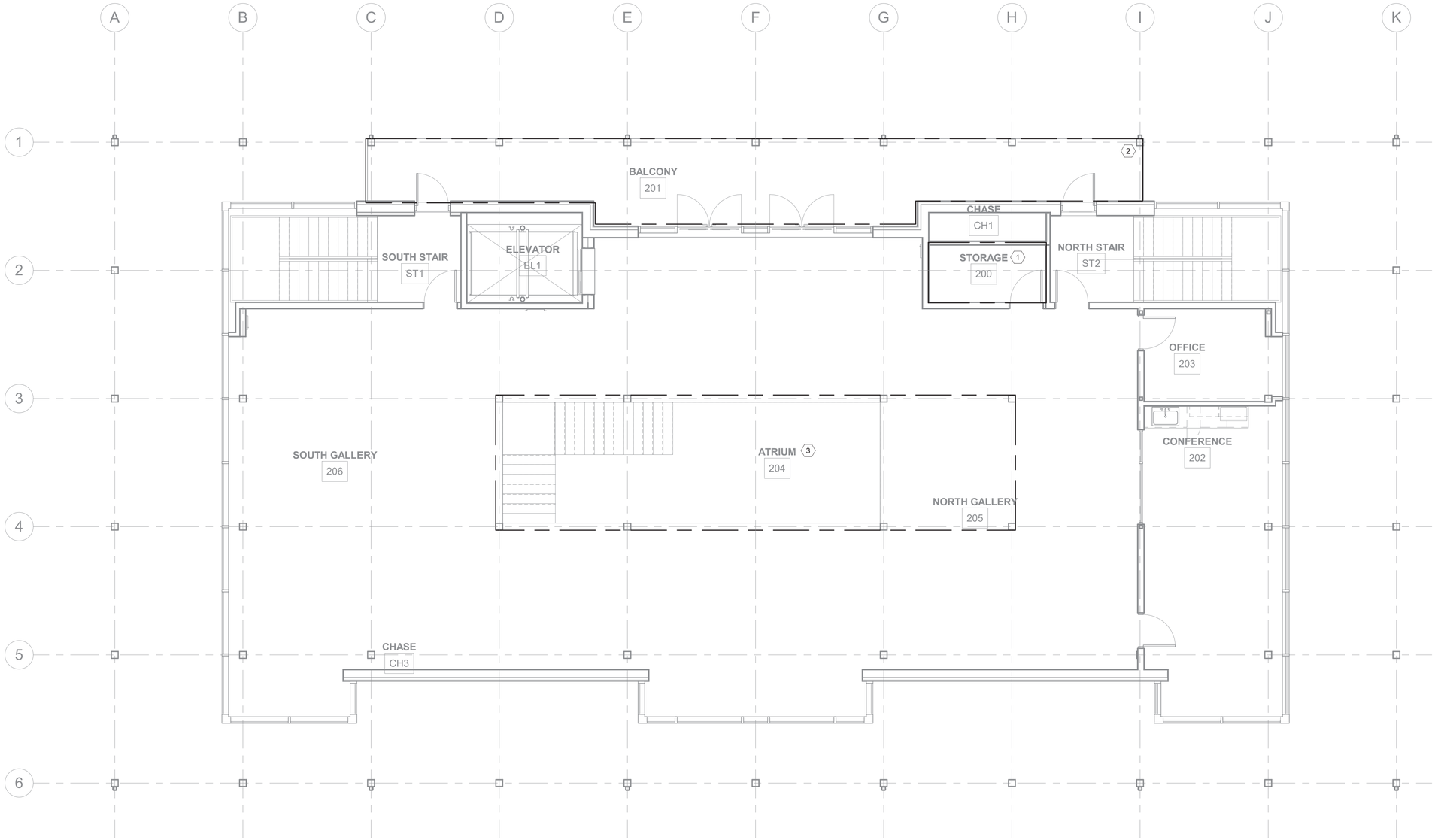
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	3/16" = 1'-0"
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

LEVEL 1 FIRE PROTECTION PLAN

SHEET NO.
F2.01



1 FLOOR PLAN
LEVEL 2

SCALE: 3/16" = 1'-0"
0' 1' 2' 6'

N

CODED NOTES:

1. SPRINKLE AREA PER ORDINARY HAZARD GROUP 1 OCCUPANCY.
2. PROVIDE COVERAGE FOR THIS AREA EXTERIOR TO THE BUILDING ENVELOPE WITH SIDEWALL DRY TYPE HEADS.
3. SPRINKLER PIPING NOT PERMITTED.

REVISIONS
06.16.2022 - CONFORMED SET

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Evan Frank
DESIGNED BY: Evan Frank
CHECKED BY: Phil Stafa
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

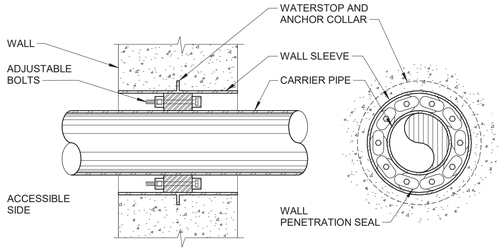
HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE
DRAWN BY:	KNE
CHECKED BY:	KNE
APPROVED BY:	---

JOB NUMBER:	DNR-210003
SCALE:	3/16" = 1'-0"
PERMIT DATE:	02/25/2022
DRAWING DATE:	02/25/2022

LEVEL 2 FIRE PROTECTION PLAN

SHEET NO.
F2.02

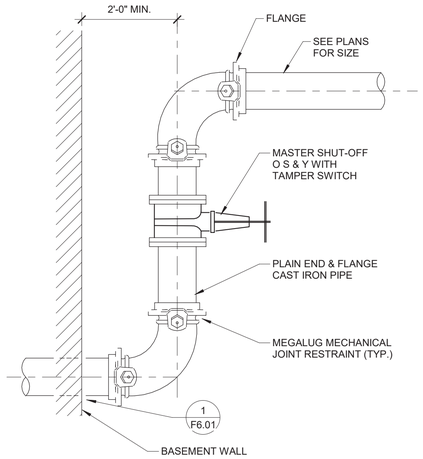


NOTE: DELETE WATERSTOP AND ANCHOR COLLAR IF WALL IS CORE DRILLED

1 DETAIL

WALL PENETRATION - WATERTIGHT WITH MECHANICAL SEAL

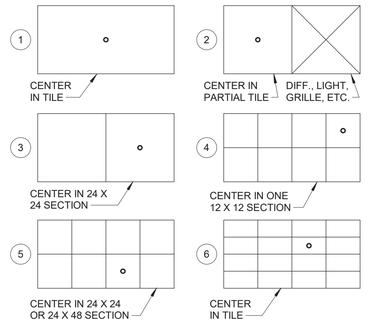
N.T.S.



2 DETAIL

WATER SERVICE FOR FP THROUGH WALL

N.T.S.



GENERAL NOTE: NO. 2 TYPICAL FOR ANY STYLE OF CEILING TILE

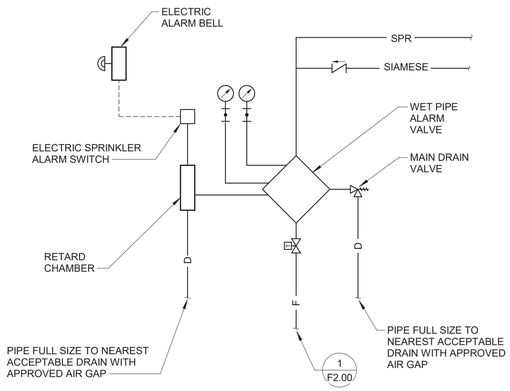
GENERAL NOTES: (APPLY TO ALL SHEETS)

1. SEE SKETCHES ABOVE FOR TYPICAL SPRINKLER HEAD LOCATION FOR VARIOUS CEILING TILE CONFIGURATIONS. COORDINATE WITH ARCHITECTURAL FINISH SCHEDULES AND DETAILS.
2. THE FIRE PROTECTION CONTRACTOR SHALL REFER TO THE REFLECTED CEILING PLAN FOR COORDINATION OF THE SPRINKLER LOCATIONS.

3 DETAIL

SPRINKLER LOCATIONS IN VARIOUS CEILING TILE TYPES

N.T.S.



4 DETAIL

SPRINKLER - WET PIPE RISER PIPING (ELECTRIC BELL)

N.T.S.

5 DETAIL

FIRE PROTECTION PIPE ROUTING

N.T.S.

REVISIONS

06.16.2022 - CONFORMED SET

CONFORMED DOCUMENTS

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY:	Evan Frank
DESIGNED BY:	Evan Frank
CHECKED BY:	Phil Stafa
PROJECT NUMBER:	2021-0003

ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	As indicated
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	02/25/2022

FIRE PROTECTION DETAILS

SHEET NO.
F6.01

TECHNOLOGY SYSTEMS ABBREVIATIONS

AAC	ABOVE ACCESSIBLE CEILING
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISH GRADE
AHJ	AUTHORITY HAVING JURISDICTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APC	ANGLE POLISHED CONNECTOR
AV	AUDIO VISUAL
AWG	AMERICAN WIRE GAUGE
BAS	BUILDING AUTOMATION SYSTEM
BC	BONDING CONDUCTOR
BCT	BONDING CONDUCTOR FOR TELECOMMUNICATIONS
BFG	BELOW FINISH GRADE
BICSI	BUILDING INDUSTRY CONSULTING SERVICE INTERNATIONAL
BMS	BUILDING MANAGEMENT SYSTEM
CAD	COMPUTER-AIDED DESIGN
CAT	CATEGORY
CATV	COMMUNITY ANTENNA TELEVISION (CABLE TELEVISION)
CCTV	CLOSED-CIRCUIT TELEVISION
CM	COMMUNICATIONS GENERAL-PURPOSE CABLE
CMP	COMMUNICATIONS PLENUM CABLE
CMR	COMMUNICATIONS RISER CABLE
COAX	COAXIAL CABLE
CP	CONSOLIDATION POINT
CPE	CUSTOMER PREMISES EQUIPMENT
CRAC	COMPUTER ROOM AIR CONDITIONING
CSI	CONSTRUCTION SPECIFICATIONS INSTITUTE
DAS	DISTRIBUTED ANTENNA SYSTEM
dB	DECIBEL
dBmV	DECIBEL MILLIVOLT
DVR	DIGITAL VIDEO RECORDER
EF	ENTRANCE FACILITY
ER	EQUIPMENT ROOM
FTP	FOIL TWISTED-PAIR
GC	GENERAL CONTRACTOR
GE	GROUNDING EQUALIZER
GEC	GROUNDING EQUALIZER CONDUCTOR
HC	HORIZONTAL CROSS-CONNECT
HDMI	HIGH-DEFINITION MULTIMEDIA INTERFACE
HH	HANDHOLE
HVAC	HEATING, VENTILATING, AND AIR CONDITIONING
IC	INTERMEDIATE CROSS-CONNECT
ID	INSIDE DIAMETER
IDC	INSULATION DISPLACEMENT CONNECTOR
IG	ISOLATED GROUND
I/O	INPUT/OUTPUT (DEVICE)
IP	INTERNET PROTOCOL
IS	INFORMATION SYSTEMS
IT	INFORMATION TECHNOLOGY
ITS	INFORMATION TECHNOLOGY SYSTEMS
KVM	KEYBOARD / VIDEO / MOUSE
LAN	LOCAL AREA NETWORK
LCD	LIQUID CRYSTAL DISPLAY
LED	LIGHT-EMITTING DIODE
MC	MAIN CROSS-CONNECT
MD	MAIN DISTRIBUTOR
MDF	MAIN DISTRIBUTION FRAME
MH	MAINTENANCE HOLE
MM	MULTIMODE
MUTOA	MULTI-USER TELECOMMUNICATIONS OUTLET ASSEMBLY
+N	INDICATES MOUNTING HEIGHT (N) TO CENTER OF DEVICE AFF
N/A	NOT APPLICABLE
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
NVR	NETWORK VIDEO RECORDER
OD	OUTSIDE DIAMETER
OFE	OWNER-FURNISHED EQUIPMENT
OEM	ORIGINAL EQUIPMENT MANUFACTURER
OFCR	OPTICAL FIBER CONDUCTIVE RISER CABLE
OFNP	OPTICAL FIBER NONCONDUCTIVE PLENUM CABLE
OFNR	OPTICAL FIBER NONCONDUCTIVE RISER CABLE
OLT	OPTICAL LINE TERMINAL
ONT	OPTICAL NETWORK TERMINAL
OSP	OUTSIDE PLANT
OTDR	OPTICAL TIME DOMAIN REFLECTOMETER
PA	PUBLIC ADDRESS
PBX	PRIVATE BRANCH EXCHANGE
PoE	POWER OVER ETHERNET
PON	PASSIVE OPTICAL NETWORK
POS	POINT OF SALE
PR	PAIR
PSTN	PUBLIC SWITCHED TELEPHONE NETWORK
PTZ	PAN,TILT, AND ZOOM
PVC	POLYVINYL CHLORIDE
QoS	QUALITY OF SERVICE
RCDD	REGISTERED COMMUNICATIONS DISTRIBUTION DESIGNER
REX	REQUEST TO EXIT
RF	RADIO FREQUENCY
RFID	RADIO FREQUENCY IDENTIFICATION
RGB	RED, GREEN, BLUE
RU	RACK UNIT
RX	RECEIVER
SCS	STRUCTURED CABLING SYSTEM
ScTP	SCREENED TWISTED-PAIR
SFF	SMALL FORM FACTOR
S/FTP	SCREENED / FOIL TWISTED-PAIR
SM	SINGLEMODE
STP	SHIELDED TWISTED-PAIR
TBB	TELECOMMUNICATIONS BONDING BACKBONE
TC	TELECOMMUNICATIONS CLOSET
TDD	TELECOMMUNICATIONS DEVICE FOR THE DEAF
TDMM	TELECOMMUNICATIONS DISTRIBUTION METHODS MANUAL
TE	TELECOMMUNICATIONS ENCLOSURE
TEBC	TELECOMMUNICATIONS EQUIPMENT BONDING CONDUCTOR
TGB	TELECOMMUNICATIONS GROUNDING BUSBAR
TMGB	TELECOMMUNICATIONS MAIN GROUNDING BUSBAR
TO	TELECOMMUNICATIONS OUTLET
TR	TELECOMMUNICATIONS ROOM
TV	TELEVISION
TX	TRANSMITTER
U/FTP	UNSHIELDED TWISTED-PAIR WITH FOIL SCREENED TWISTED-PAIR CONDUCTORS
UL	UNDERWRITERS LABORATORIES INC.
UNO	UNLESS NOTED OTHERWISE
UPS	UNINTERRUPTIBLE POWER SUPPLY
USOC	UNIVERSAL SERVICE ORDER CODE
UTP	UNSHIELDED TWISTED-PAIR
U/UTP	UNSHIELDED TWISTED-PAIR WITH UNSHIELDED TWISTED-PAIR CONDUCTORS
VLAN	VIRTUAL LAN
VoIP	VOICE OVER INTERNET PROTOCOL
VPN	VIRTUAL PRIVATE NETWORK
WAN	WIDE AREA NETWORK
WAO	WORK AREA OUTLET
WAP	WIRELESS ACCESS POINT
WLAN	WIRELESS LOCAL AREA NETWORK

TECHNOLOGY SYMBOLS

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER U.N.O.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	AUDIO/VISUAL SYMBOLS	
LS	LOCAL SOUND SYSTEM CEILING MOUNTED SPEAKER	IN CEILING
V	SOUND SYSTEM VOLUME ATTENUATOR	46"
P	VIDEO PROJECTOR, CEILING MOUNTED, (1) CAT6 UTP W = WALL MOUNTED	IN CEILING COORD. HT
MONITOR *	VIDEO MONITOR DISPLAY DEVICE; REFER TO SPEC 27 41 05 * = SCREEN DIAGONAL	----
	CONDUIT, RISER UP	----
	CONDUIT, RISER DOWN	----
AV	AUDIO/VISUAL OUTLET. PROVIDE 4-11/16" DEEP BOX W/ DOUBLE GANG RING AND (2) 1-1/4" CONDUITS STUBBED TO ABOVE ACCESSIBLE CEILING FOR LAY-IN CEILING APPLICATIONS (CONDUITS EXTENDED TO PROJECTOR FOR EXPOSED CEILING APPLICATIONS). H = HIGH OUTLET L = LOW OUTLET	SEE DRAWINGS
	SECURITY SYMBOLS	
; WP	SECURITY SYSTEM HORN; WP - WEATHERPROOF	----
;	INTERIOR SECURITY SYSTEM CAMERA EXTERIOR SECURITY SYSTEM CAMERA CEILING MOUNTED; WALL MOUNTED	92" 144"
	PUSH BUTTON DOOR RELEASE	----
CR	SECURITY SYSTEM CARD READER	46"
DA	DURESS ALARM	----
EC	EMERGENCY CALL/STROBE LIGHT	----
GB	SECURITY SYSTEM GLASS BREAK DETECTION	CEIL. OR 94"
IC M ; IC D	INTERCOM; MASTER, DOOR STATION	46"
K	SECURITY SYSTEM KEY PAD	46"
MD	SECURITY SYSTEM MOTION DETECTOR	CEIL. OR 94"
P	SECURITY SYSTEM DOOR POSITION SWITCH	----
	VOICE/DATA SYMBOLS	
AP	WIRELESS ACCESS POINT, (1) CAT6A UTP W = WALL MOUNTED	IN CEILING
1	1 PORT, WALL MOUNT, (1) CAT6 UTP	18"
2	2 PORT, WALL MOUNT, (2) CAT6 UTP	18"
3	3 PORT, WALL MOUNT, (3) CAT6 UTP	18"
4	4 PORT, WALL MOUNT, (4) CAT6 UTP	18"
*	FLOOR RECESSED OUTLET BOX * = # OF CAT6 PORTS (AND CABLES)	----
*	FLOOR RECESSED / FIRE RATED "POKE THRU" OUTLET ASSEMBLY * = # OF CAT6 PORTS (AND CABLES)	----
E	ELEVATOR, (1) CAT6 UTP, ANALOG LINE	----
MD	DATA OUTLET FOR MULTIFUNCTION DEVICE, (2) CAT6 UTP (1) FOR DATA AND (1) FOR VOICE	COORD. HT
P	DATA OUTLET FOR PRINTER, (1) CAT6 UTP	COORD. HT
W	WALL PHONE, (1) CAT6 UTP FOR VOICE	46"
TV	TELEVISION OUTLET, (1) CAT6 UTP, (1) RG6 COAX CF = CONFERENCE ROOM TELEVISION OUTLET, (1) CAT6 UTP, (1) RG6 COAX, (1) HDMI	60" 60"

TECHNOLOGY SYMBOLS

1. SOME SYMBOLS MAY NOT BE USED.
2. MOUNTING HEIGHTS ARE TO CENTER U.N.O.

SYMBOL	DESCRIPTION	MOUNTING HEIGHT UNLESS NOTED OTHERWISE
	PBB (PRIMARY BONDING BUSBAR)	90"
EZ *	EZ PATH SERIES 44+ MULTIGANG FIRESTOP. QUANTITY OF GANGS AS REQUIRED TO ALLOW 30% SPARE CAPACITY. S = EZ PATH SERIES 33NEZ MULTIGANG SMOKE & ACOUSTICAL PATHWAY. QUANTITY OF GANGS AS REQUIRED TO ALLOW 30% SPARE CAPACITY.	ABOVE CEILING
	8' H X 4' W X 3/4" A/C QUALITY OR BETTER PLYWOOD BACKBOARD IN TR SPACES, MOUNT 8" AFF 4' WIDE BY 8' TALL AT SPECIFIED LOCATIONS, PAINT FRONT BACK AND SIDES WITH TWO COATS FIRE RETARDANT PAINT.	104"
2W M ; 2W S	TWO-WAY EMERGENCY COMMUNICATIONS SYSTEM; MASTER, SLAVE STATION, (1) CAT6 UTP	48"
TC	STAFF TIME CLOCK, (1) CAT6 UTP	SEE DRAWINGS

SYMBOL LIST GENERAL INFORMATION

1. DASHED SYMBOLS INDICATE EXISTING DEVICES TO BE REMOVED.
2. SOLID SYMBOLS WITH SUBSCRIPT "R" INDICATE EXISTING DEVICES TO REMAIN.
3. DASHED SYMBOLS WITH SUBSCRIPT "REL" INDICATE EXISTING DEVICES TO BE RELOCATED.
4. SOLID SYMBOLS WITH SUBSCRIPT "RD" INDICATE RELOCATED DEVICES.

DEVICE SUFFIXES

AC	ABOVE COUNTER OUTLET
C	CEILING MOUNTED OUTLET
F	FLOOR MOUNTED OUTLET
S	SURFACE RACEWAY OUTLET
M	MODULAR FURNITURE OUTLET
W	WALL MOUNTED
WG	WIRE GUARD
WP	WEATHER PROOF

SCOPE OF WORK NOTES

ALL DIVISION 28 WORK SHALL BE PERFORMED UNDER THIS CONTRACT BY JCI. THIS INCLUDES ALL SECURITY EQUIPMENT, ALL CABLING FOR SECURITY DEVICES (INCLUDING CATEGORY CABLING, FIBER, MEDIA CONVERTERS AND MEDIA CONVERTER BOXES FOR SECURITY DEVICES). JCI WORK INCLUDES ALL FIRE ALARM, ACCESS CONTROL, INTRUSION DETECTION, WATER SENSOR ALARM, DURESS ALARMS, VIDEO SURVEILLANCE, INTERCOMS, AND ENTRY PHONES. JCI TO PROVIDE AN ALLOWANCE FOR THIS WORK. CONTACT KEN CURTIS AT JCI, 614-381-6230, ken.curtis@jci.com TO COORDINATE THIS WORK. EC TO PROVIDE ALL SECURITY ROUGH-INS (BACKBOXES, CONDUITS, AND J-HOOKS).

NOTE THAT ALL GLASS BREAK SENSORS ARE WIRELESS AND WILL NOT REQUIRE ANY BACKBOX OR CONDUIT

TECHNOLOGY GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCEMENT OF WORK.
2. WHEREVER THE WORD PROVIDE IS USED IT SHALL MEAN TO "FURNISH AND INSTALL".
3. IT IS THE INTENT OF THESE DRAWINGS AND SPECIFICATIONS TO ESTABLISH A STANDARD OF QUALITY. THE OWNER RESERVES THE RIGHT TO APPROVE METHODS AND MATERIALS NOT REFLECTED HERE IN.
4. CONTRACTOR SHALL VISIT SITE PRIOR TO BID AND VERIFY THAT CONDITIONS ARE AS INDICATED. CONTRACTOR SHALL INCLUDE IN HIS BID COSTS REQUIRED TO MAKE HIS WORK MEET EXISTING CONDITIONS.
5. WORK SHALL BE PERFORMED IN A WORKMANLIKE MANNER TO THE SATISFACTION OF THE OWNER.
6. WORK, MATERIALS, AND EQUIPMENT SHALL CONFORM TO THE LATEST EDITIONS OF LOCAL, STATE, AND NATIONAL CODES, ORDINANCES AND STANDARDS.
7. PROVIDE RECORD DRAWINGS. INCLUDE ALL ADDENDUM ITEMS, CHANGE ORDERS, ALTERATIONS, REROUTINGS, ETC.
8. VERIFY EXACT LOCATION OF EQUIPMENT PRIOR TO ROUGH-IN.
9. ALL CABLING THAT PASSES THROUGH OR ORIGINATES IN EXPOSED CEILING SPACES SHALL BE INSTALLED IN LISTED METALLIC RACEWAYS. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS. RACEWAYS IN SLAB-ON-GRADE OR BELOW GRADE SHALL BE SCHEDULE 40 PVC. TRANSITIONS FROM BELOW TO ABOVE GRADE SHALL BE WITH RIGID STEEL ELBOWS. EMT FITTINGS SHALL BE MALLEABLE IRON OR STEEL. CONNECTORS SHALL BE INSULATED THROAT TYPE.
10. THERE SHALL BE NO MORE THAN TWO 90 DEGREE BENDS BETWEEN PULL BOXES. PULL BOXES AND CABLE TRAYS SHOWN ON DRAWINGS SHALL BE CONSIDERED THE MINIMUM REQUIREMENTS. CONTRACTOR SHALL INSTALL PULL BOXES ACCORDING TO FIELD CONDITIONS.
11. ALL CABLING ABOVE ACCESSIBLE CEILING AREAS, WHERE NOT IN CABLE TRAY, SHALL BE SUPPORTED WITH A J-HOOK SUPPORT SYSTEM. J-HOOK SPACING SHALL VARY BETWEEN 4' AND 5' ON CENTER. J-HOOK SHALL NOT BE SUPPORTED BY OR OTHERWISE ATTACHED TO THE SUSPENDED CEILING GRID WIRES OR ANY OTHER BUILDING ANCILLARY SYSTEM SUCH AS ELECTRICAL OR PLUMBING CONDUITS.
12. REFER TO ARCHITECTURAL PLANS FOR WALL CONSTRUCTION.
13. RACEWAYS SHALL BE RUN AS INCONSPICUOUSLY AS POSSIBLE. VERTICAL RUNS SHALL OCCUR IN CORNERS OF ROOMS. HORIZONTAL RUNS SHALL OCCUR ALONG BASEBOARD OF WALL WITH VERTICAL RUNS UP TO THE DEVICE BOXES BRANCHING OUT OF CORNER BOXES, TEES OR ELBOWS.
14. ALL CONDUITS IN AREAS WITHOUT SUSPENDED CEILINGS SHALL BE RUN AS INCONSPICUOUSLY AS POSSIBLE, HIDDEN BEHIND BEAMS, CLOSE TO DECK, ETC. OBTAIN APPROVAL OF CONDUIT RUNS BELOW BEAMS WITH OWNER'S REPRESENTATIVE.
15. ADD STEEL BRIDGING BETWEEN PURLINS/JOISTS/BEAMS AS NECESSARY TO SUPPORT THE WEIGHT OF SUSPENDED DEVICES AND FIXTURES.
16. ALL DEVICES IN CEILINGS IN A ROOM SHALL BE ALIGNED.
17. PROVIDE SURFACE RACEWAY SIZE ADEQUATE FOR QUANTITY OF DATA CABLES.
18. COORDINATE WITH OWNER FOR EXACT MOUNTING HEIGHT AND LOCATION OF ALL WALL-MOUNTED SECURITY CAMERAS.
19. NOT USED.
20. REFER TO SITE PLANS FOR SITE REQUIREMENTS.

MAXIMUM CABLE CONDUIT FILL TABLE

TECHNOLOGY CABLE TYPE	NOMINAL CABLE O.D.	CONDUIT SIZE								
		0.75"	1"	1.25"	1.5"	2"	2.5"	3"	3.5"	4"
CAT6A PLENUM	0.309"	1	3	4	6	12	19	27	38	50
CAT6A NON-PLENUM	0.309"	1	3	4	6	12	19	27	38	50
CAT6 PLENUM	0.237"	3	5	8	12	21	33	48	65	85
CAT6 NON-PLENUM	0.234"	3	5	8	12	21	33	48	66	87
CAT6 OSP	0.251"	2	4	6	10	18	28	41	56	73
RG6 PLENUM	0.233"	3	5	8	12	21	33	48	66	87
RG11 PLENUM	0.348"	N/A	1	3	4	7	12	17	24	31

1. FOR ALL VOICE/DATA APPLICATIONS, EXCEPT FOR INDIVIDUAL SECURITY DEVICES, 1" MINIMUM CONDUIT IS REQUIRED.
2. CONDUIT FILL CALCULATIONS ARE BASED ON 25% SPARE FUTURE CAPACITY.
3. FOR MIXED CABLE TYPES IN THE SAME CONDUIT, PERFORM CONDUIT FILL CALCULATIONS FOR MAXIMUM CROSS-SECTIONAL AREA OF 30%.
4. VERIFY ALL CABLE TYPES ARE OF SIMILAR O.D. AS BASIS OF DESIGN.

TECHNOLOGY SHEET INDEX

REVISIONS

02.25.2022	BID DOCUMENTS
03.11.2022	ADDENDUM NO. 1
03.15.2022	ADDENDUM NO. 2
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KMONK
E-51379
REGISTERED
PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA / NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Justin Schultz
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

N W S

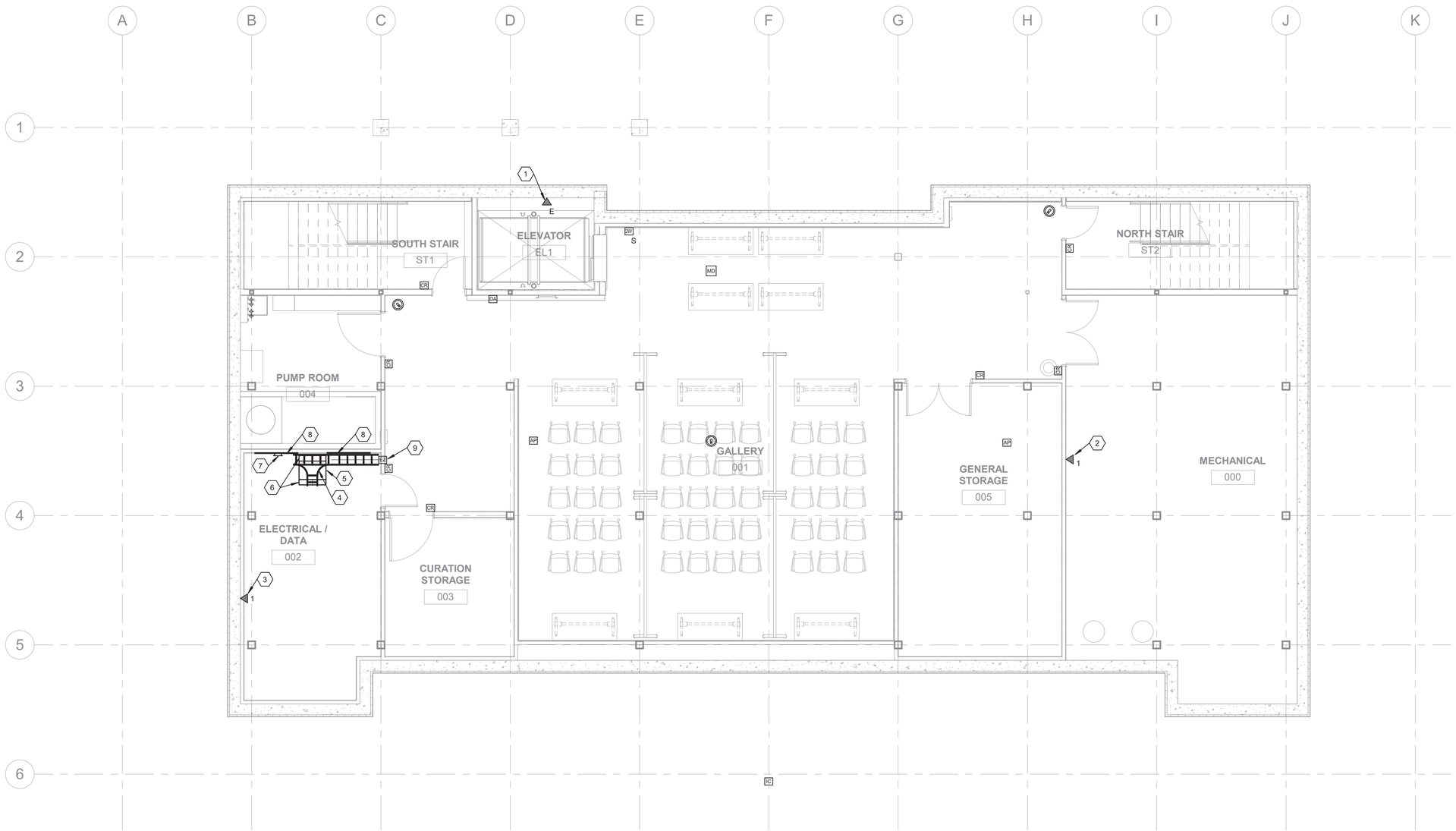
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	12/09/2021

TECHNOLOGY SYMBOLS AND LEGENDS

SHEET NO.
T0.00



CODED NOTES

1. PROVIDE ANALOG TELEPHONE LINE CONNECTION FOR ELEVATOR. MAKE FINAL CONNECTIONS TO ELEVATOR CONTROLLER. COORDINATE LOCATION WITH ELEVATOR PROVIDER.
2. COORDINATE LOCATION WITH BAS PANEL.
3. COORDINATE LOCATION WITH LIGHTING CONTROL PANEL.
4. 12" LADDER RACK.
5. 2-POST EQUIPMENT RACK.
6. 6" VERTICAL CABLE MANAGEMENT.
7. PRIMARY BONDING BUSBAR (PBB).
8. PLYWOOD BACKBOARD. SPACE FOR ACCESS CONTROL PANELS.
9. EZ-PATH SERIES 44+ FIRE-RATED PATHWAY (OR HILTI 4" SPEED SLEEVE).

1 FLOOR PLAN

BASEMENT TECHNOLOGY

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

REVISIONS	
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03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO
STANLEY J. KMONK
E-81379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
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1650 WATERMARK DRIVE
SUITE 200
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DESIGNED BY:	Justin Schultz
CHECKED BY:	Checker
PROJECT NUMBER:	2021-0003

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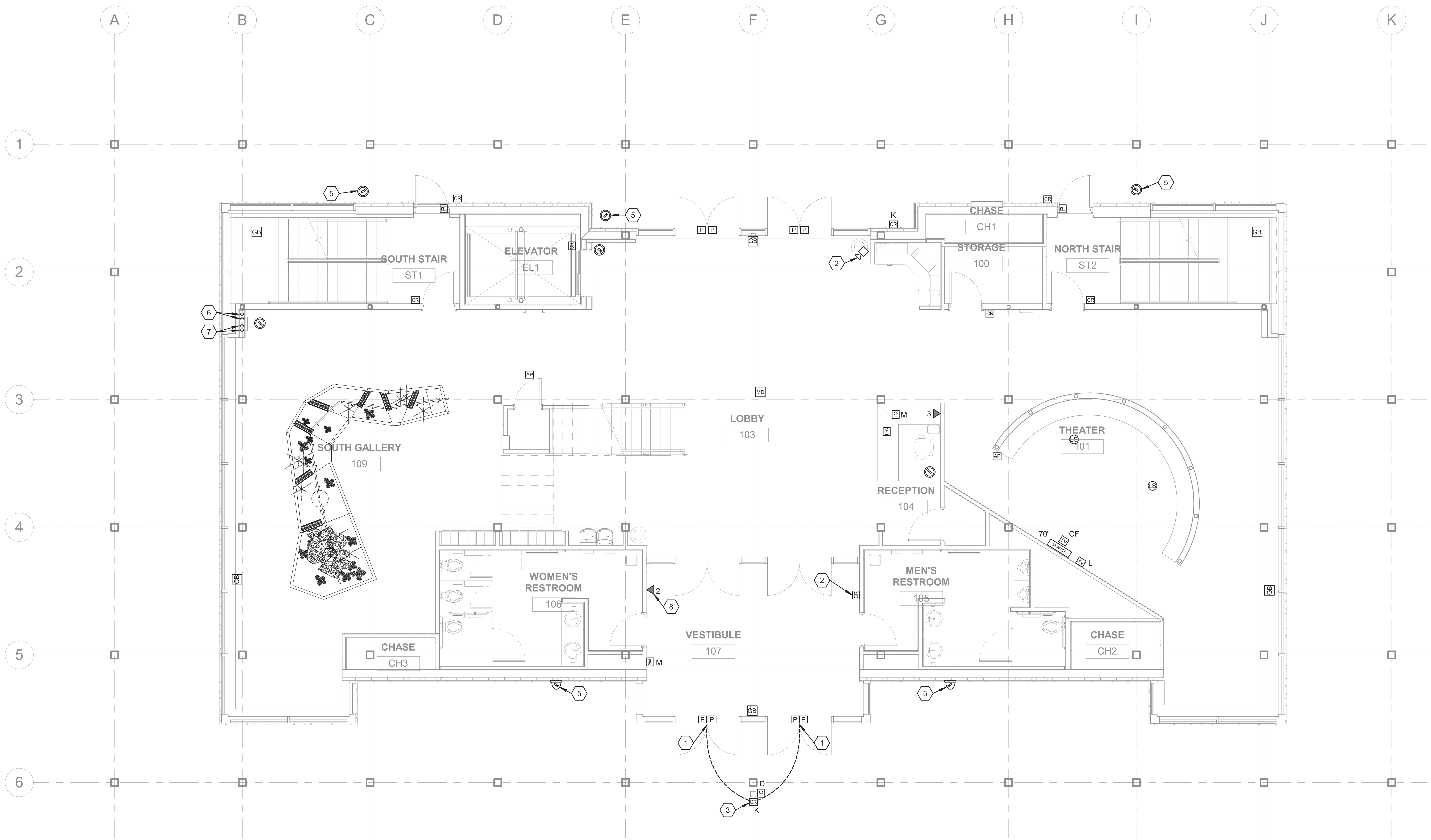
APPROVED BY:	---	DRAWING DATE:	12/09/2021

BASEMENT TECHNOLOGY PLAN

SHEET NO.
T2.00



1 FLOOR PLAN

FIRST FLOOR TECHNOLOGY

SCALE: 3/16" = 1'-0"

CODED NOTES

1. PROGRAM DOOR(S) IN ACCESS CONTROL SYSTEM TO BE LOCKED VIA TIME-OF-DAY SCHEDULE.
2. LOCAL SECURITY SYSTEM HORN.
3. IN ADDITION TO CONTROLLING DOOR ACCESS, CARD READER TO BE CONFIGURED TO BE USED BY SELECT USERS TO ARM AND DISARM SECURITY SYSTEM USING A DOUBLE CREDENTIAL SWIPE. COORDINATE WITH OWNER TO PROVIDE SECURITY SYSTEM ARM / DISARM SCHEDULE.
4. JCI (DIV. 28) TO PROVIDE WATER SENSOR ALARM FOR LIVING STREAM. TIE INTO SECURITY SYSTEM. DIV. 26 TO PROVIDE 3/4" CONDUIT IN FLOOR TO UNDER STREAM IN ADJACENT PATHWAY TO POWER CONDUIT.
5. EXTERIOR BUILDING-MOUNTED CAMERA HOUSING AND MOUNT SHALL BE PAINTED DARK BRONZE. PAINTING SHALL BE PERFORMED PER MANUFACTURER'S INSTRUCTIONS AND UNDERS SUCH CONDITIONS THAT CAMERA WARRANTY SHALL BE MAINTAINED.
6. (2) 3" CONDUITS STUBBED FROM BASEMENT ACCESSIBLE CEILING TO FIRST FLOOR ACCESSIBLE CEILING TO FEED LOW-VOLTAGE CABLING TO DEVICES ON FIRST FLOOR.
7. (2) 3" CONDUITS STUBBED FROM BASEMENT ACCESSIBLE CEILING TO SECOND FLOOR ACCESSIBLE CEILING TO FEED LOW-VOLTAGE CABLING TO DEVICES ON SECOND FLOOR.
8. PROVIDE ANALOG TELEPHONE LINE CONNECTIONS FOR FIRE ALARM CONTROL PANEL. COORDINATE LOCATION WITH FIRE ALARM CONTROL PANEL.

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STANLEY J. KMONK
E-51379
REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA/NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Justin Schultz
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

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Ohio Department of Natural Resources

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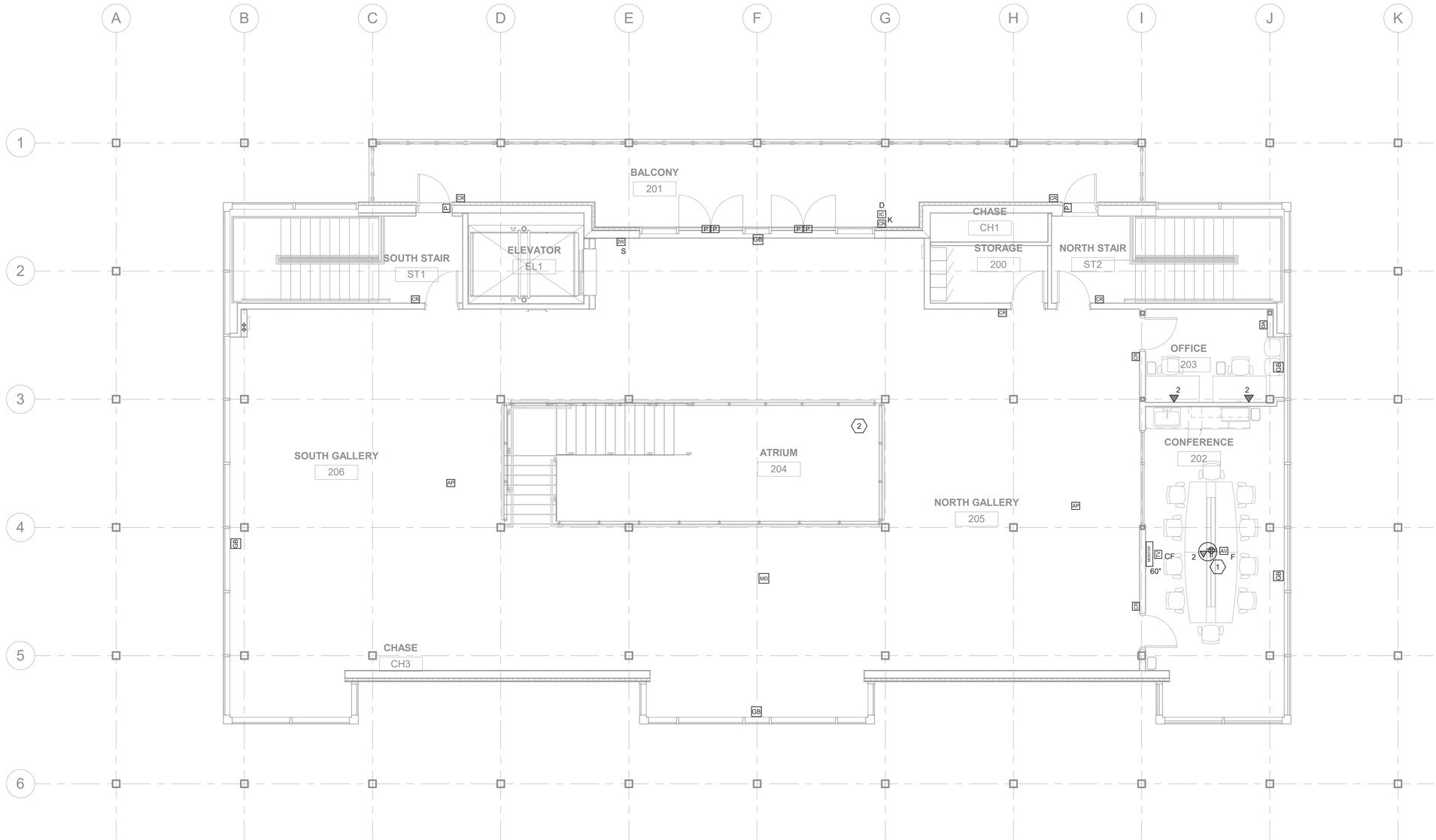
APPROVED BY:	---	DRAWING DATE:	12/09/2021

FIRST FLOOR TECHNOLOGY PLAN

SHEET NO.
T2.01

CODED NOTES

1. POWER, DATA, AND A/V CONNECTIONS ARE ALL INTEGRAL TO POKE-THROUGH DEVICE.
2. APPROXIMATE PROPOSED LOCATION OF ROOF PENETRATION FOR ERRS ANTENNA.



1 FLOOR PLAN

SECOND FLOOR TECHNOLOGY

SCALE: 3/16" = 1'-0"

0' 1' 2' 6'

N

REVISIONS	
02.25.2022	BID DOCUMENTS
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STATE OF OHIO
STANLEY E. KNICK
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PROFESSIONAL ENGINEER
2/25/2022

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SUITE 200
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PROJECT NUMBER:	2021-0003

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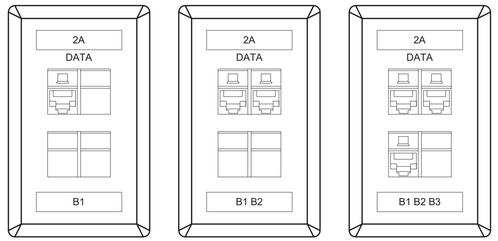
APPROVED BY:	---	DRAWING DATE:	12/09/2021

SECOND FLOOR TECHNOLOGY PLAN

SHEET NO. **T2.02**



TYPICAL DATA OUTLET
▼E ▼1 ▼P

TYPICAL DATA OUTLET
▼2

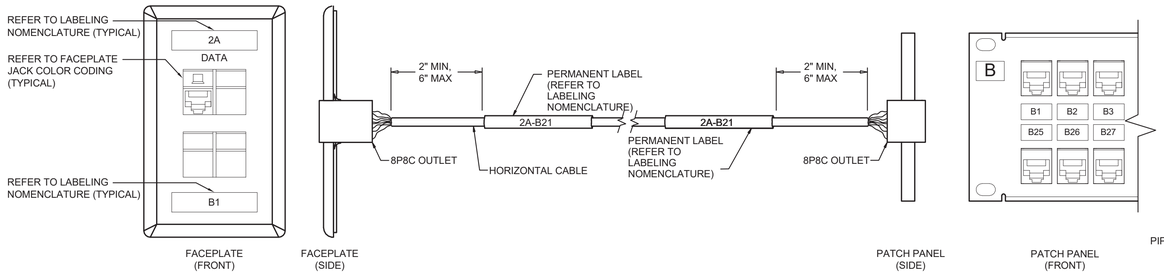
TYPICAL DATA OUTLET
▼3

TYPICAL TV OUTLET
TV

TYPICAL AV LOW OUTLET
AV F

1 DETAILS

LOW VOLTAGE SYSTEMS DEVICE PLATES N.T.S.



FACEPLATE (FRONT)

FACEPLATE (SIDE)

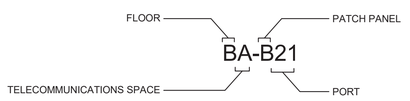
PATCH PANEL (SIDE)

PATCH PANEL (FRONT)

3 DETAIL

TYPICAL CABLE LABELING AT OUTLET AND PATCH PANEL SCALE

LABELING NOMENCLATURE

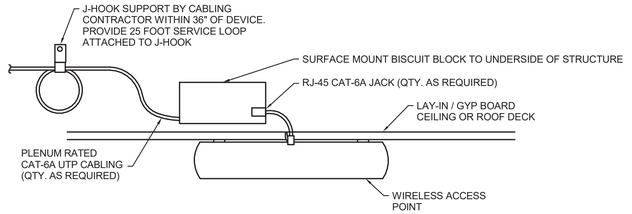


B = BASEMENT

OUTLET TYPE AND PATCH PANEL TYPE SERVED FROM:
W = WIRELESS ACCESS POINT PATCH PANEL

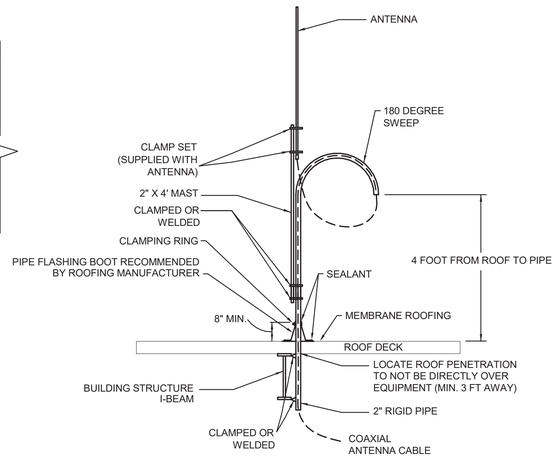
FACEPLATE JACK COLOR CODING

COLOR	DESCRIPTION
BLUE	DATA
WHITE	ANALOG VOICE
PURPLE	WIRELESS ACCESS POINT
YELLOW	CCTV / SECURITY
GREEN	POINT-TO-POINT LOCAL CONNECTION
GRAY	BUILDING AUTOMATION SYSTEM
1. ALL WORK AREA OUTLET FACEPLATE JACKS AND PATCH PANEL JACK LABELS SHALL BE COLOR-CODED.	
2. ALL MTR PATCH CABLES SHALL BE COLOR-CODED AS LISTED ABOVE.	
3. ALL CAT-6 HORIZONTAL CABLING SHALL BE BLUE. ALL CAT-6A HORIZONTAL CABLING SHALL BE PURPLE. ALL FIBER CABLING SHALL BE YELLOW.	



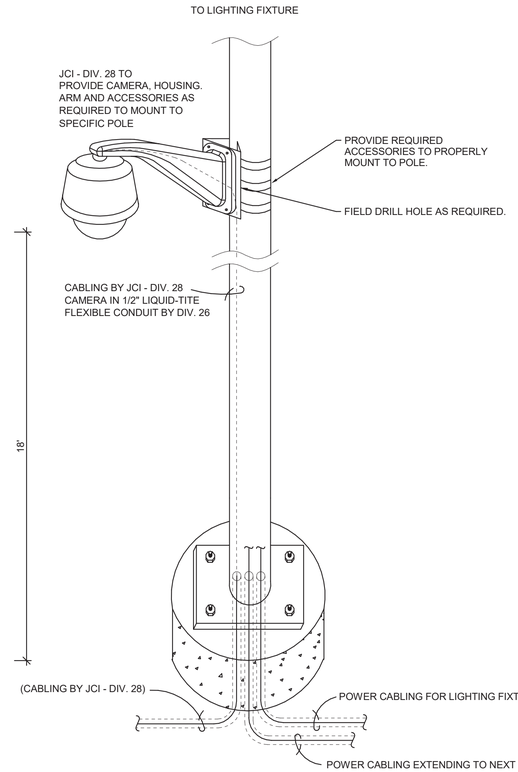
2 DETAIL

WIRELESS ACCESS POINT - STANDARD CONNECTION AP N.T.S.



4 DETAIL

ROOF MOUNTED ANTENNA FOR ERRS N.T.S.



5 DETAIL

POLE MOUNTED CAMERA BASE N.T.S.

NOTES

1. POLES, CONDUIT, AND CURVED JUNCTION BOX ARE THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR.
2. NETWORK CABLE AND LIGHTNING PROTECTION WHERE THE CABLE ENTERS THE BUILDING IS THE RESPONSIBILITY OF THE DIVISION 27 CONTRACTOR.
3. ALL LINE VOLTAGE POWER IS THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR. ALL LOW VOLTAGE POWER IS THE RESPONSIBILITY OF THE DIVISION 27 CONTRACTOR.
4. CAMERA IS THE RESPONSIBILITY OF THE DIVISION 28 CONTRACTOR.
5. CAMERA HOUSING SHALL BE PAINTED TO MATCH POLE.

REVISIONS

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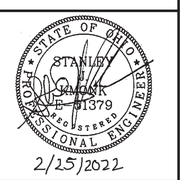

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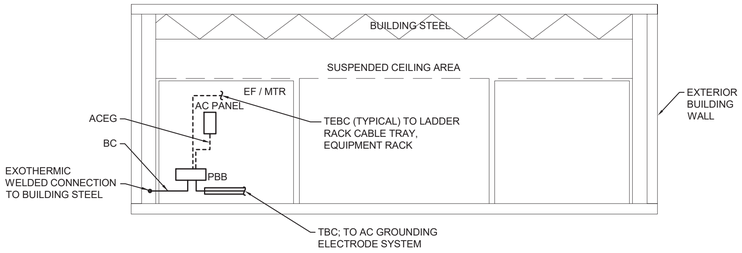
TECHNOLOGY DETAILS

SHEET NO. **T7.01**



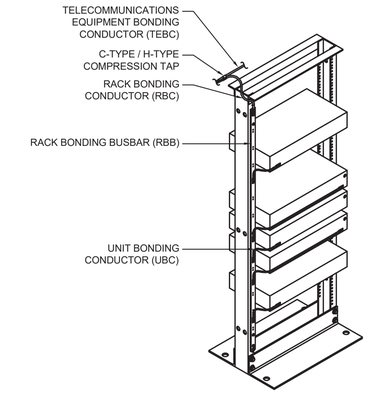
1 DETAIL

TELECOMMUNICATIONS BONDING INFRASTRUCTURE N.T.S.

ABBREVIATIONS		DIVISION	SIZE
ACEG	ALTERNATING CURRENT EQUIPMENT GROUND	26	6 AWG
BBC	BACKBONE BONDING CONDUCTOR	26	26 05 27
BC	BONDING CONDUCTOR	26	4/0 AWG
EF	ENTRANCE FACILITY	N/A	N/A
ER	EQUIPMENT ROOM	N/A	N/A
GEC	GROUNDING ELECTRODE CONDUCTOR	26	6 AWG
MTR	MAIN TELECOMMUNICATIONS ROOM	N/A	N/A
PBB	PRIMARY BONDING BUSBAR	26	26 05 27
RBB	RACK BONDING BUSBAR	27	26 05 27
SBB	SECONDARY BONDING BUSBAR	26	26 05 27
SBC	SECONDARY BONDING CONDUCTOR	26	26 05 27
TBB	TELECOMMUNICATIONS BONDING BACKBONE	26	26 05 27
TBC	TELECOMMUNICATIONS BONDING CONDUCTOR	26	26 05 27
TEBC	TELECOMMUNICATION EQUIPMENT BONDING CONDUCTOR	27	26 05 27
TR	TELECOMMUNICATIONS ROOM	N/A	N/A

GENERAL NOTES

1. ROOMS, QUANTITY OF FLOORS, AND EQUIPMENT SHOWN ARE REPRESENTATIONAL.
2. REFER TO ENLARGED ROOM PLAN(S) FOR ACTUAL EQUIPMENT COUNTS AND LOCATIONS.
3. BOND ALL RACKS, CONDUITS, CONDUIT SLEEVES, CABLE TRAYS, METALLIC CABLE SHEATHS, AND ALL EQUIPMENT PER CURRENT VERSION OF ANSI/TIA 607.
4. REFER TO FLOOR PLANS FOR TECHNOLOGY ROOM LOCATIONS.

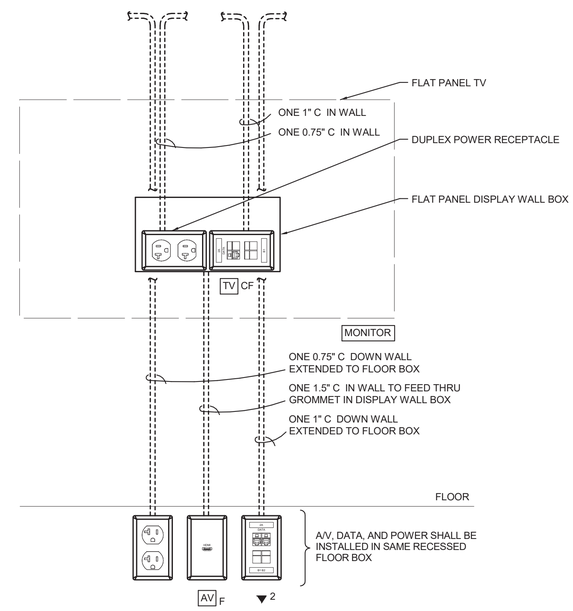


2 DETAIL

TYPICAL EQUIPMENT RACK BONDING N.T.S.

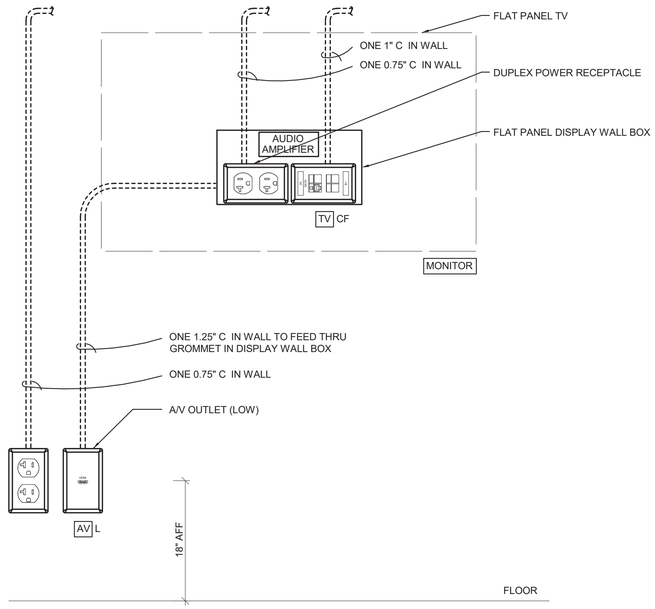
GENERAL NOTES

1. DETAIL SHOWN FOR BONDING PURPOSES ONLY. EQUIPMENT RACK SHALL BE 2-POST, 4-POST, OR EQUIPMENT CABINET AS SPECIFIED ELSEWHERE.
2. IF RACK OR CABINET IS NOT LOCATED WITHIN A TECHNOLOGY ROOM, THE RACK BONDING CONDUCTOR (RBC) SHALL BE CONNECTED DIRECTLY TO EITHER THE TELECOMMUNICATIONS BONDING BACKBONE (TBB) OR THE PRIMARY BONDING BUSBAR (PBB), DEPENDING ON BONDING SYSTEM CONFIGURATION. THE RACK BONDING CONDUCTOR (RBC) SHALL BE SIZED ACCORDINGLY.



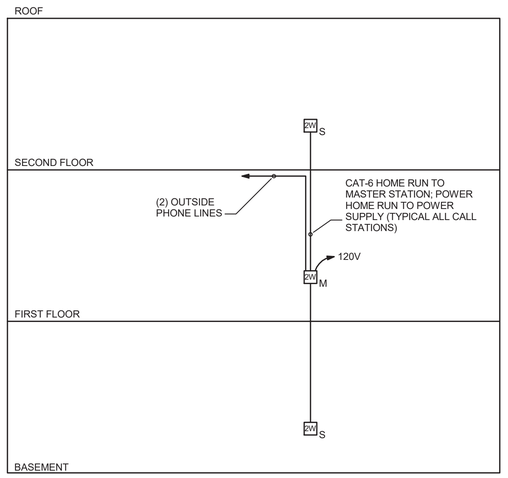
3 DETAILS

TYPICAL CONF. RM MONITOR OUTLETS AV F 2,F TV CF N.T.S.
WALL ELEVATION; A/V INPUT IN FLOOR



4 DETAILS

THEATER MONITOR OUTLETS AV L 2 TV C N.T.S.
WALL ELEVATION; A/V INPUT IN WALL



5 DETAIL

2-WAY EMERGENCY COMMUNICATIONS SYSTEM N.T.S.

REVISIONS

02.25.2022	BID DOCUMENTS
03.11.2022	ADDENDUM NO. 1
03.17.2022	ADDENDUM NO. 3
03.21.2022	ADDENDUM NO. 5
06.16.2022	CONFORMED SET

STATE OF OHIO · STANLEY J. MONK · E-91379 · REGISTERED PROFESSIONAL ENGINEER
2/25/2022

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Author
DESIGNED BY: Justin Schultz
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

CONFORMED DOCUMENTS

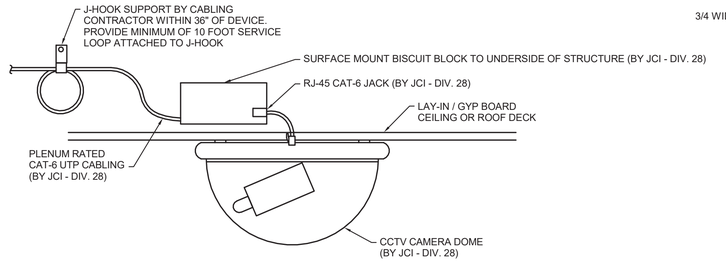
ENGINEERING
Ohio Department of Natural Resources

HISTORIC OLDTOWN
NEW INTERPRETIVE CENTER
1575 US-68, XENIA, OHIO 45385

DESIGNED BY:	KNE	JOB NUMBER:	DNR-210003
DRAWN BY:	KNE	SCALE:	
CHECKED BY:	KNE	PERMIT DATE:	02/25/2022
APPROVED BY:	---	DRAWING DATE:	12/16/2021

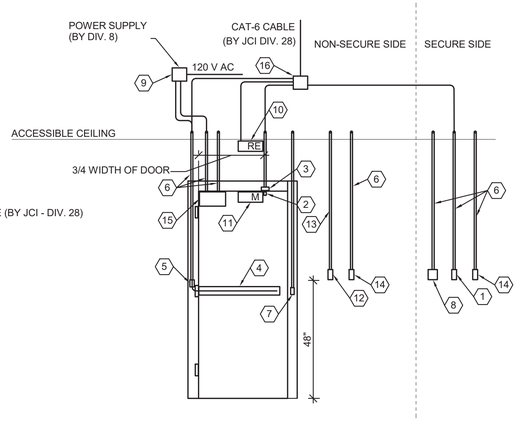
TECHNOLOGY DETAILS

SHEET NO. **T7.02**



1 DETAIL

CCTV CAMERA - STANDARD CONNECTION (8) N.T.S.



2 DETAIL

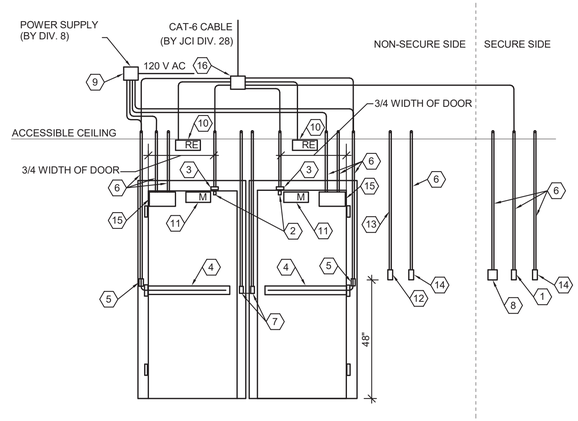
SINGLE DOOR SECURITY DEVICE N.T.S.

GENERAL NOTES

1. EACH DOOR DOES NOT CONTAIN EACH DEVICE DEPICTED. SEE DOOR HARDWARE SCHEDULE AND FLOOR PLANS FOR MORE INFORMATION.
2. ALL REFERENCES TO DIV. 28 ARE IN CONTRACT AND BY JCI.

CODED NOTES

1. CARD READER BY DIV. 28. BACKBOX BY DIV. 26.
2. DOOR CONTACT BY DIV. 28.
3. BACKBOX AND 3/4" CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING BY DIV. 26. UTILIZE FOR DOOR CONTACT (AND MAG LOCK IF APPLICABLE).
4. ELECTRIC CRASH BAR (IF APPLICABLE) INSTALLED BY DIV. 8 AND WIRED TO POWER SUPPLY BY DIV. 28.
5. BACKBOX MOUNTED IN DOOR FRAME (IF ELECTRIC CRASH BAR UTILIZED) BY DIV. 26.
6. 3/4" CONDUIT FROM BACKBOX TO ABOVE CEILING (IF DEVICE UTILIZED) BY DIV. 26.
7. BACKBOX AND 3/4" CONDUIT FROM TO ABOVE ACCESSIBLE CEILING FOR DOOR STRIKE (IF APPLICABLE) BY DIV. 26.
8. KEYPAD BY DIV. 28. 4- SQUARE MASONRY BACKBOX BY DIV. 26.
9. POWER SUPPLY INSTALLED AND WIRED TO 120 V AC BY DIV. 26.
10. REQUEST TO EXIT MOTION DETECTOR (IF APPLICABLE) BY DIV. 28. MOUNT TO CEILING CENTERED ABOVE DOORWAY WHENEVER POSSIBLE. IF CEILING MOUNT IS NOT POSSIBLE WALL MOUNT WITH A SINGLE GANG BOX AT 108" AND EXTEND A 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING BY DIV. 26.
11. MAGNETIC DOOR LOCK (IF APPLICABLE) BY DIV. 8. UTILIZE SAME CONDUIT AS DOOR CONTACT. PROVIDE FIRE ALARM TIE IN TO RELEASE MAG LOCK UPON ACTIVATION OF FIRE ALARM.
12. REQUEST TO EXIT BUTTON (IF APPLICABLE) BY DIV. 28. SINGLE GANG MASONRY BACKBOX (IF APPLICABLE) BY DIV. 26.
13. 3/4" CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING (IF MAG LOCK UTILIZED) BY DIV. 26.
14. WALL ACTUATOR STATION FOR DOOR OPERATOR BY DIV 8. SINGLE GANG MASONRY BACKBOX BY DIV. 26.
15. POWER OPERATED DOOR OPERATOR (IF WALL ACTIVATOR UTILIZED) BY DIV. 8.
16. DOOR CONTROLLER BY DIV. 28.



3 DETAIL

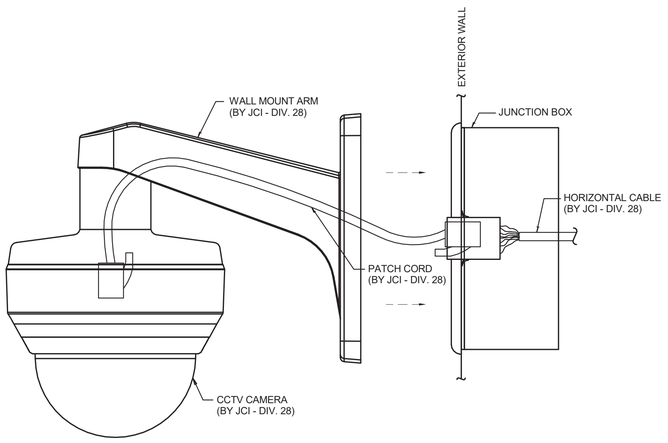
DOUBLE DOOR SECURITY DEVICE N.T.S.

GENERAL NOTES

1. EACH DOOR DOES NOT CONTAIN EACH DEVICE DEPICTED. SEE DOOR HARDWARE SCHEDULE AND FLOOR PLANS FOR MORE INFORMATION.
2. ALL REFERENCES TO DIV. 28 ARE IN CONTRACT AND BY JCI.

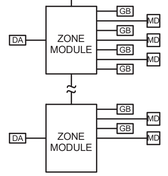
CODED NOTES

1. CARD READER BY DIV. 28. BACKBOX BY DIV. 26.
2. DOOR CONTACT BY DIV. 28.
3. BACKBOX AND 3/4" CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING BY DIV. 26. UTILIZE FOR DOOR CONTACT (AND MAG LOCK IF APPLICABLE).
4. ELECTRIC CRASH BAR (IF APPLICABLE) INSTALLED BY DIV. 8 AND WIRED TO POWER SUPPLY BY DIV. 28.
5. BACKBOX MOUNTED IN DOOR FRAME (IF ELECTRIC CRASH BAR UTILIZED) BY DIV. 26.
6. 3/4" CONDUIT FROM BACKBOX TO ABOVE CEILING (IF DEVICE UTILIZED) BY DIV. 26.
7. BACKBOX AND 3/4" CONDUIT FROM TO ABOVE ACCESSIBLE CEILING FOR DOOR STRIKE (IF APPLICABLE) BY DIV. 26.
8. KEYPAD BY DIV. 28. 4- SQUARE MASONRY BACKBOX BY DIV. 26.
9. POWER SUPPLY INSTALLED AND WIRED TO 120 V AC BY DIV. 26.
10. REQUEST TO EXIT MOTION DETECTOR (IF APPLICABLE) BY DIV. 28. MOUNT TO CEILING CENTERED ABOVE DOORWAY WHENEVER POSSIBLE. IF CEILING MOUNT IS NOT POSSIBLE WALL MOUNT WITH A SINGLE GANG BOX AT 108" AND EXTEND A 3/4" CONDUIT TO ABOVE ACCESSIBLE CEILING BY DIV. 26.
11. MAGNETIC DOOR LOCK (IF APPLICABLE) BY DIV. 8. UTILIZE SAME CONDUIT AS DOOR CONTACT. PROVIDE FIRE ALARM TIE IN TO RELEASE MAG LOCK UPON ACTIVATION OF FIRE ALARM.
12. REQUEST TO EXIT BUTTON (IF APPLICABLE) BY DIV. 28. SINGLE GANG MASONRY BACKBOX (IF APPLICABLE) BY DIV. 26.
13. 3/4" CONDUIT FROM BACKBOX TO ABOVE ACCESSIBLE CEILING (IF MAG LOCK UTILIZED) BY DIV. 26.
14. WALL ACTUATOR STATION FOR DOOR OPERATOR BY DIV 8. SINGLE GANG MASONRY BACKBOX BY DIV. 26.
15. POWER OPERATED DOOR OPERATOR (IF WALL ACTIVATOR UTILIZED) BY DIV. 8.
16. DOOR CONTROLLER BY DIV. 28.



4 DETAIL

EXTERIOR CCTV CAMERA - STANDARD CONNECTION (8) N.T.S.



5 DIAGRAM

INTRUSION DETECTION RISER (BY JCI - DIV. 28) N.T.S.

GENERAL NOTES

1. THIS DIAGRAM IS TYPICAL IN NATURE. PLEASE REFER TO ACTUAL SECURITY SYSTEM SUBMITTAL FOR ACTUAL INSTALLATION DETAILS.
2. ALL DEVICES WILL BE PROVIDED IN THE DIVISION 28 SECURITY CONTRACT. CABLING AND CONDUIT PROVIDED BY THE DIVISION 26 ELECTRICAL CONTRACTOR.
3. PROVIDE PLENUM RATED CABLE IN ENCLOSED DROP CEILINGS IN J HOOKS AND ALL EXPOSED CEILING AREAS REQUIRE CONDUIT FROM ABOVE CABLE TRAY TO DEVICE BOX.
4. PROVIDE 18 AWG FOUR (4) CONDUCTOR UNSHIELDED CABLE TO FROM HEAD END ON WALL IN MTR TO ZONE MODULES AND FROM ZONE MODULES TO DEVICES. PROVIDE AT LEAST TWO (2) FEET OF SLACK AT EACH LOCATION. TRY TO GROUP DEVICES IN QUANTITIES OF FOUR (4) OR EIGHT (8) DEVICES PER MODULE. LIMIT RUNS TO 1000' MAX.
5. PROVIDE 18 AWG PAIR IN A LOOP FROM HEAD END MOUNTED ON WALL TO ALL HORNS

REVISIONS

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06.16.2022	CONFORMED SET

KORDA
KORDA NEMETH ENGINEERING
1650 WATERMARK DRIVE
SUITE 200
COLUMBUS, OHIO 43215

DRAWN BY: Garrett W. Strauss
DESIGNED BY: Justin Schultz
CHECKED BY: Checker
PROJECT NUMBER: 2021-0003

STATE OF OHIO PROFESSIONAL ENGINEER REGISTERED STANLEY E. NEMETH E-61379
2/25/2022

CONFORMED DOCUMENTS

ENGINEERING
Ohio Department of Natural Resources

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APPROVED BY:	---	DRAWING DATE:	12/16/2021

TECHNOLOGY DETAILS

SHEET NO. **T7.03**