



BUFFALO WATER BOARD
STONE STORAGE BUILDING AND BOILER HOUSE RENOVATION
COLONEL WARD PUMPING STATION
2 PORTER AVE
BUFFALO NY 14201

09-08-2026



Centerpointe Corporate Park
375 Essjay Road, Suite 200
Williamsville, NY 14221
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Wendel Project No. 462806



SITE



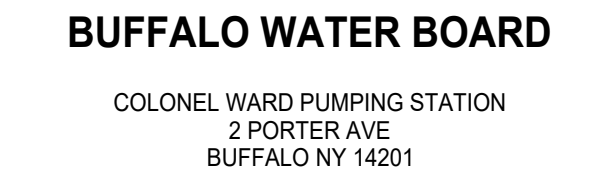
PROJECT
LOCATION

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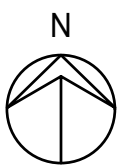
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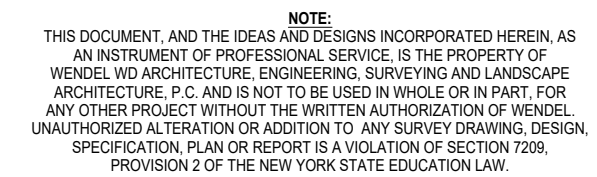
Wendel WD Architecture, Engineering, Surveying and
Landscape Architecture, P.C.

1. INFORMATION SHOWN HEREON WAS SURVEYED BY WENDEL ON AUGUST 1, 2025.
2. UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION BASED ON VISIBLE FIELD EVIDENCE AND RECORD DRAWINGS PROVIDED BY OTHERS.
3. HORIZONTAL CONTROL IS REFERENCED TO THE NORTH AMERICAN DATUM OF 1983 (NAD83) AS ESTABLISHED BY GPS AND UTILIZING THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION'S REAL TIME NETWORK.
4. ELEVATIONS BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAV88).

585	---	EXISTING GROUND MAJOR CONTOUR (5')
586	---	EXISTING GROUND MINOR CONTOUR (1')
		BUILDING
	---	PAVEMENT EDGE
	---	CURB (SANDSTONE)
		CONCRETE
		STONE/GRAVEL
ST	---	STORM SEWER
UE	---	UNDERGROUND ELECTRIC
		GUIDE RAIL
		DRAINAGE STRUCTURE
		DRAINAGE MANHOLE
		YARD DRAIN
		ELECTRICAL MANHOLE
		ELECTRICAL HANDHOLE
		SANITARY SEWER MANHOLE
UPL		LIGHT POLE
		WATER VALVE
		HYDRANT
		SURVEY CONTROL POINT
FFE	---	FIRST FLOOR ELEVATION
TC	---	TOP OF CURB
PE	---	PAVEMENT EDGE



1 EXISTING SITE PLAN
SCALE: 1" = 20'



0	ISSUED FOR BID	09/08/2026
NO.	REVISIONS	DATE

DWG. TITLE

0 1" 2"

GENERIC SCALE BAR

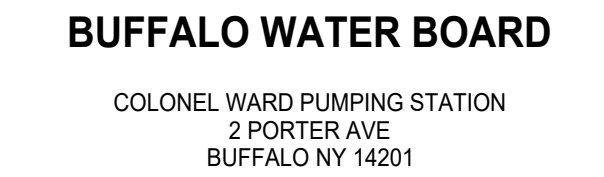
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	09/08/2026		
SCALE	AS NOTED		
DWN.	IR2	CHK.	TGW

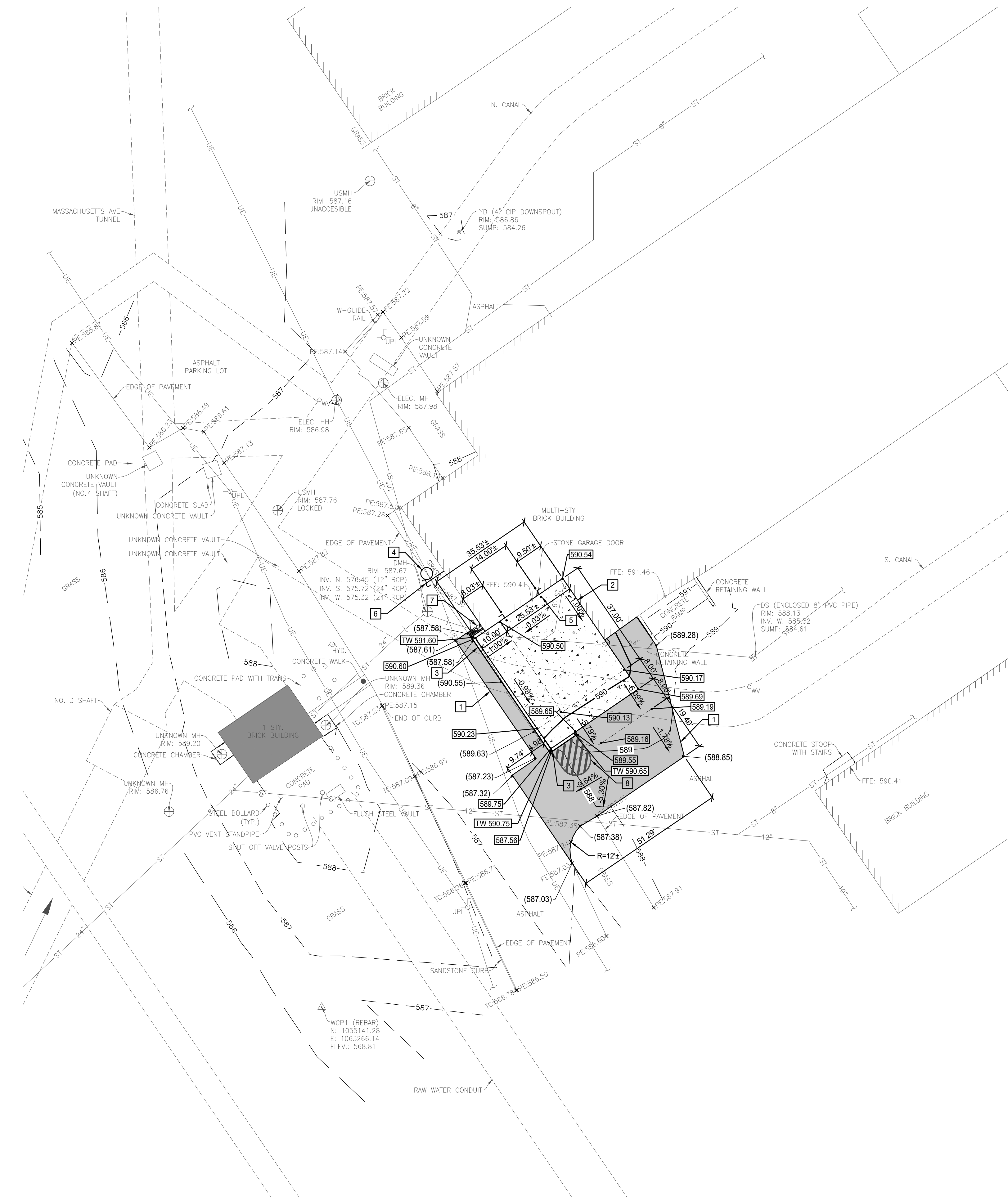
PROJ. No. 462806

DWG. No.

C101

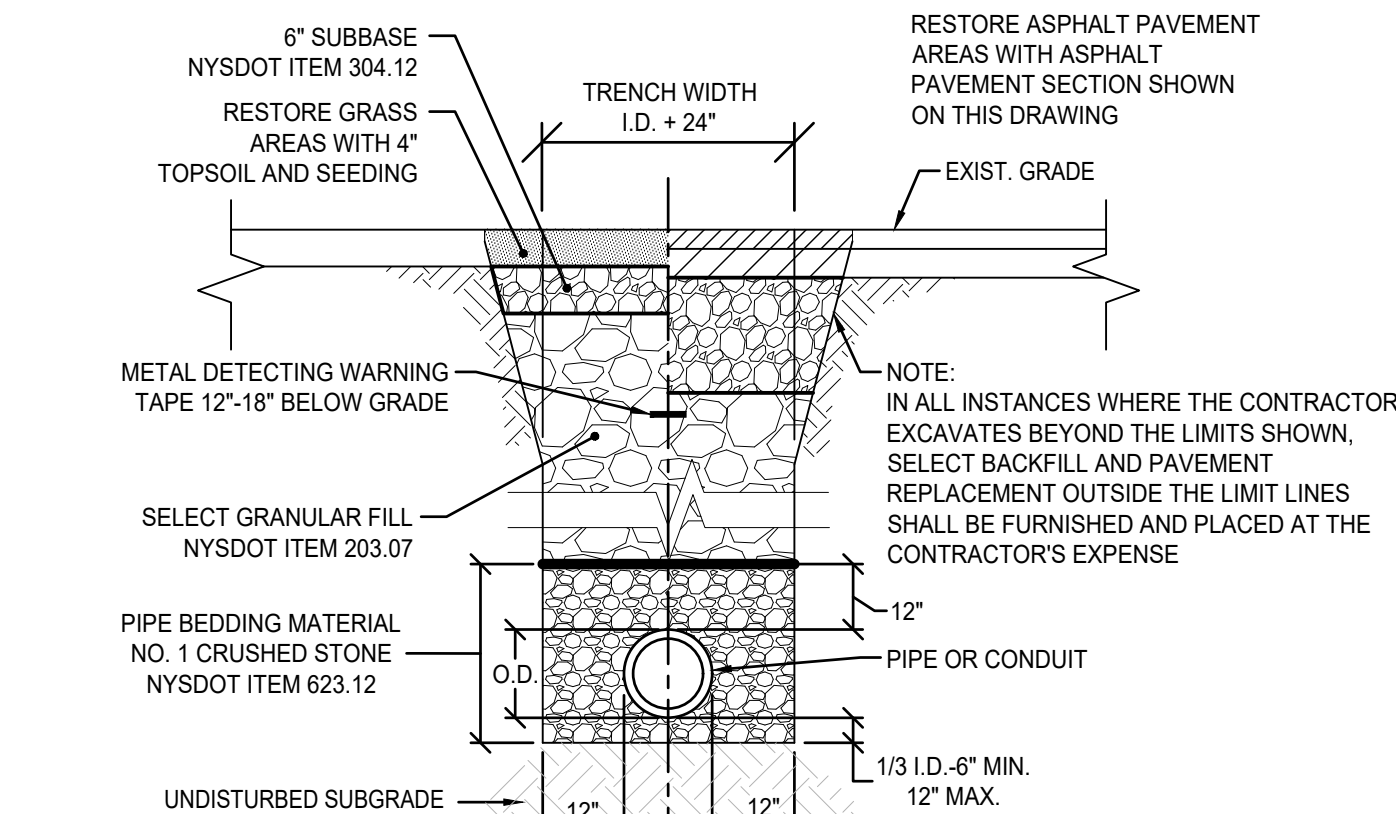


STONE STORAGE BUILDING AND BOILER HOUSE RENOVATION



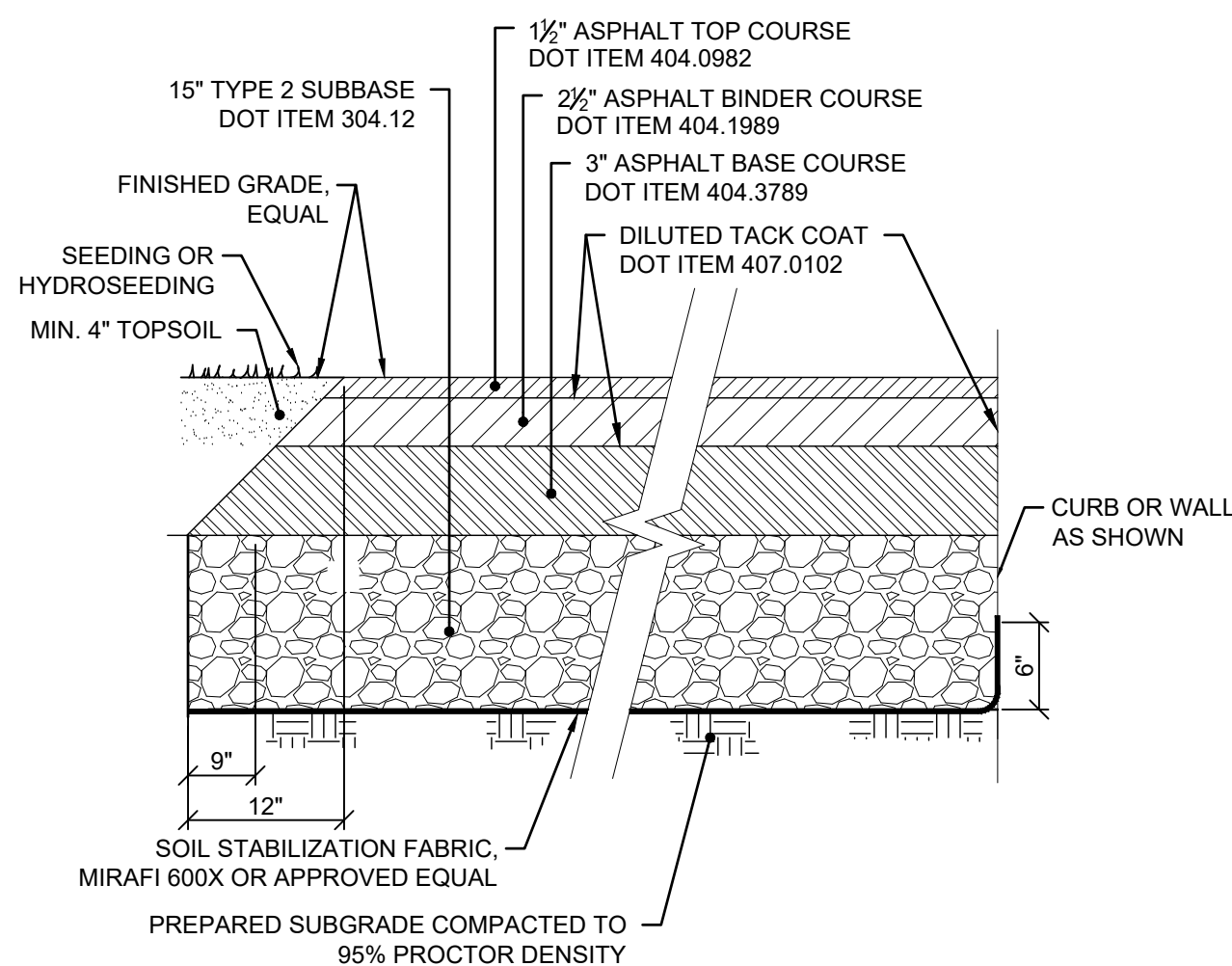
SITE LAYOUT NOTES:

1. HEAVY DUTY ASPHALT PAVEMENT RE: 2, C201
2. HEAVY DUTY CONCRETE PAVEMENT, REFER TO STRUCTURAL DRAWINGS
3. CONCRETE RETAINING WALL, REFER TO STRUCTURAL DRAWINGS. TOP OF WALL 1'-0" ABOVE TOPPING SLAB SURFACE. TYP.
4. ELECTRICAL MANHOLE, REFER TO ELECTRICAL DRAWINGS
5. BOLLARDS AT EXISTING DOOR OPENING. TOTAL OF 4 REFER TO STRUCTURAL DRAWINGS.
6. UNDERGROUND GAS PIPE RE: 3, C201, REFER TO PLUMBING DRAWINGS.
7. BACKFILL EXCAVATED AREA AND PLACE 4" OF #2 STONE.
8. PROVIDE HATCHED AREA IN STEEP SLOPE. 4" WIDE EDGE LINES. 8" WIDE DIAGONAL LINES AT 24" SPACING. COLOR YELLOW.



② UTILITY TRENCH DETAIL

N.T.S.



NOTE:
*DIMENSIONS GIVEN ON PLANS ARE TAKEN FROM EDGE OF ASPHALT TOP COURSE

② HEAVY DUTY ASPHALT PAVEMENT SECTION

SCALE: N.T.S

LEGEND:

The diagram illustrates a cross-section of a road and its surrounding embankment. Key features include:

- EXISTING MAJOR CONTOUR:** A dashed line at elevation 500.
- EXISTING MINOR CONTOUR:** A dashed line at elevation 501.
- EXISTING SPOT ELEVATION:** A point labeled (500.00) on the existing minor contour.
- PROPOSED MAJOR CONTOUR:** A solid line at elevation 500.
- PROPOSED MINOR CONTOUR:** A solid line at elevation 501.
- PROPOSED GRADE BREAK LINE:** A dashed line indicating a change in the proposed grade.
- PROPOSED SLOPE DOWN:** A slope indicated by a line labeled -1.00%.
- PROPOSED SPOT ELEVATION:** A point labeled 500.00 on the proposed slope down.
- PROPOSED TOP OF WALL ELEVATION:** A point labeled TW 500.00 on the proposed slope down.

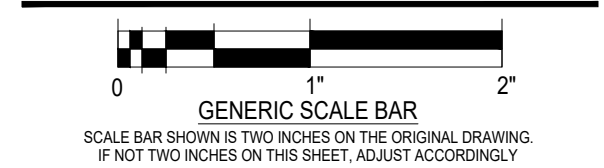


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DWG. TITLE

SITE LAYOUT PLAN



DATE	09/08/2026		
SCALE	AS NOTED		
DWN.	IR2	CHK.	TGW
PROJ. No.	462806		
DWG. No.			

DWG. No.

C201

A.F.F.	Above Finished Floor
ADDL.	Additional
ADH.	Adhesive
ADJ.	Adjustable
A.S.D.	Allowable Strength Design
ALT.	Alternate
ALUM.	Aluminum
A.C.I.	American Concrete Institute
A.I.A.	American Institute Of Architects
A.I.S.C.	American Institute Of Steel Construction
A.P.A.	American Plywood Association
A.S.T.M.	American Society For Testing And Materials
A.S.C.E.	American Society Of Civil Engineers
A.W.S.	American Welding Society
A.W.P.A.	American Wood Preservers' Association
AB.	Anchor Bolt
APPROX.	Approximate
A.S.I.	Architect's Supplemental Instruction
A/E	Architect/Engineer
ARCHL.	Architectural
ASPH.	Asphalt
AVG.	Average
B	
B/B/B	Back To Back
B.P.L.	Base Plate
BRG.	Bearing
BRG. PL.	Bearing Plate
B.O.C.	Beginning of Curve
B.M.	Bench Mark
BTWN.	Between
BEV.	Bevel
BLK.	Block
BLK'G	Blocking
BOTT.	Bottom
B.C.	Bottom Chord
B/	Bottom Of
B.F.	Braced Frame
C	
CANTIL.	Cantilever
C.I.	Cast Iron
C.I.P.	Cast-In-Place
C.B.	Catch Basin
CLG.	Ceiling
CTR.	Center
CL.	Center / Column Line
C.O.	Cleanout
CLR.	Clear
C.F.M.F.	Cold-Formed Metal Framing
COL.	Column
C.J.P.	Complete Joint Penetration
CONC.	Concrete
C.M.U.	Concrete Masonry Unit
C.R.S.I.	Concrete Reinforcing Steel Institute
CW	Concrete Wall
CONN.	Connection
CONSTR.	Construction
C.J.	Construction Joint
C.M.	Construction Manager
C.S.I.	Construction Specifications Institute
CONT.	Continuous
COORD.	Coordinate
COV.	Cover

D.L.	Dead Load
DEMO.	Demolition
DET.	Detail
DEV.	Development
DIA.	Diameter
DIM.	Dimension
DBL.	Double
DWL.	Dowel
DWG.	Drawing
D.P.	Drilled Pier
E	
EA.	Each
EE.	Each End
E.F.	Each Face
E.S.	Each Side
E.W.	Each Way
E.O.D.	Edge Of Deck
E.O.P.	Edge Of Plate
E.O.S.	Edge Of Slab
ELEC.	Electric
EL.	Elevation
ELEV.	Elevator
ENGR.	Engineer
E.O.R.	Engineer Of Record
EQ.	Equal
EQUIP.	Equipment
EST.	Estimate
EX.	Existing
EXP.	Expansion
E.J.	Expansion Joint
EXT.	Exterior
F	
FAB.	Fabrication
F.S.	Far Side
F.R.P.	Fiberglass Reinforced Plastic
FIN.	Finish
FIN. FLR.	Finish Floor
F.F.E.	Finish Floor Elevation
FLR.	Floor
FT.	Foot / Feet
FTG.	Footing
FDN.	Foundation
FRMG.	Framing
G	
GA.	Gage / Gauge
GAL.	Galval
GALV.	Galvanized
G.C.	General Contractor
GLU LAM.	Glue Laminated Lumber
GLAM.	Glue Laminated Lumber
G.B.	Grade Beam
H	
HT.	Height
H.C.P.P.	Hollow Core Precast Plank
H.M.	Hollow Metal
HSS	Hollow Structural Steel
HORIZ.	Horizontal

I	
INCL.	Included
INFO.	Information
I.D.	Inside Diameter
I.F.	Inside Face
INSUL.	Insulation
INT.	Interior
INV.	Invert
J	
JT.	Joint
K	
K	Kip
K.S.F.	Kip Per Square Foot
K.S.I.	Kips Per Square Inch
K.B.	Knee Brace
L	
L	Angle
LAD.	Ladder
LVL	Laminated Veneer Lumber
L.F.	Linear Feet (Foot)
L.L.	Live Load
L.R.F.D.	Load and Resistance Factor Design
LOC.	Location
L.H.	Long Leg Horizontal
L.V.	Long Leg Vertical
L.S.H.	Long Side Horizontal
L.S.V.	Long Side Vertical
LONG.	Longitudinal
L.D.F.C.	Low Density Foam Concrete Fill
LBS.	Pound
M	
MFR.	Manufacturer
MAS.	Masonry
M.O.	Masonry Opening
MAT'L	Material
MAX.	Maximum
MECH.	Mechanical
M.E.P.	Mechanical / Electrical / Plumbing
MTL	Metal
MIN.	Minimum
MIRR.	Mirror
MISC.	Miscellaneous
M.F.	Moment Frame
N	
N.F.	Near Face
N.S.	Near Side
N.A.V.D.	North American Vertical Datum
N/A	Not Applicable
N.I.C.	Not In Contract
N.T.S.	Not To Scale

O	
O.C.	On Center
OWT	Open Web Truss
OPNG.	Opening
OPP.	Opposite
O.D.	Outside Diameter
O.F.	Outside Face
O.H.	Overhang
P	
PSL	Parallel Strand Lumber
P.J.P	Partial Joint Penetration
PART.	Partition
P.V.M.T.	Pavement
PERF.	Perforated
PERP.	Perpendicular
PL	Plate
PLAT.	Platform
PLGB.	Plumbing
PLYWD.	Plywood
P.O.I.	Point of Interconnection
P.O.T.	Point of Tangent
POLY.	Polyethylene (Plastic)
P.V.C.	Polyvinyl Chloride (Plastic)
PT. CONC.	Post-Tensioned Concrete
P.S.F.	Pound Per Foot
P.S.I.	Pound Per Square Inch
P.C.F.	Pounds Per Cubic Foot
P.L.F.	Pounds Per Linear Foot
P.S.F.	Pounds Per Square Foot
P.S.I.	Pounds Per Square Inch
PRECAST	Precast
P.C.I.	Precast/Prestressed Concrete Institute
PRELIM.	Preliminary
PT.	Pressure Treated
PROJ.	Projection
PROP.	Property
Q	
Q.A.	Quality Assurance
Q.C.	Quality Control
QTY.	Quantity
R	
RAD.	Radius
REF.	Reference
REINF.	Reinforce
REBAR	Reinforcing Steel Bars
REQ'D	Required
REV.	Revision
RT.	Right
R.O.W.	Right Of Way
R.D.	Roof Drain
R.H.	Roof Hatch
R.T.U.	Roof Top Unit
R.V.	Roof Vent

R.O.	Rough Opening
S	
S.J.	Sawcut Joint
SCHED.	Schedule
SECT.	Section
SHT.	Sheet
SIM.	Similar
S.	South
SPEC.	Specification
SQ.	Square
S.F.	Square Foot (Feet)
S.S.	Stainless Steel
STD.	Standard
STL.	Steel
S.D.I.	Steel Deck Institute
S.J.I.	Steel Joist Institute
STIFF.	Stiffener
STRUCT.	Structural
SURV.	Survey
SYM.	Symmetrical
T	
TEMP	Temporary
THK.	Thick / Thickness
T.B.D.	To Be Determined
T&B	Top and Bottom
T/	Top of
T/CONC	Top of Concrete
T/FTG	Top of Concrete Footing
T/FDN	Top of Foundation
T/MAS	Top of Masonry
T/STEEL	Top of Steel
T/WALL	Top of Wall
T.	Tread
TYP.	Typical
U	
U.L.	Underwriters Laboratories
U.O.N.	Unless Noted Otherwise
U.O.N.	Unless Otherwise Noted
V	
VAR.	Varies
VOL.	Volume
W	
WT.	Weight
W.W.F.	Welded Wire Fabric
W.W.R.	Welded Wire Reinforcement
WF	Wide Flange
w/	With
WD.	Wood
W.P.	Working Point

DESCRIPTION OF MATERIAL	PLAN VIEW	SECTION VIEW
INDICATES 95% COMPACTED FREE DRAINING SUB-BASE (STRUCTURAL FILL)		
INDICATES 98% COMPACTED FREE DRAINING SUB-BASE (STRUCTURAL FILL)		
INDICATES DRAINABLE FILL		
INDICATES EXISTING ROCK		
INDICATES NATIVE (EXISTING) SOIL		
INDICATES ASPHALT PAVEMENT		
INDICATES APPROXIMATE FINAL GRADE. SEE SITE DRAWINGS		
INDICATES CONCRETE		
INDICATES CONCRETE MASONRY		
INDICATES STEEL		
INDICATES FOUNDATION UNDERPINNING		
INDICATES DEMOLISHED AREA		
INDICATES MEDIUM STONE FILL NYSDOT 620.04		

BAR SIZE	5000 PSI NORMAL WEIGHT CONCRETE			
	TENSION			
	DEV. LENGTH (IN)	CLASS B SPICE LENGTH	TOP BAR DEV. LENGTH (IN)	TOP BAR SPICE LENGTH (IN)
3	13	17	17	22
4	17	23	23	29
5	22	28	28	36
6	26	34	34	44
7	38	49	49	63
8	43	56	56	72
9	48	63	63	81
10	54	69	69	90
11	59	76	76	99

LOCATION	MIN. COVER
CONCRETE CAST AGAINST SOIL	3"
OTHER CONCRETE BELOW GROUND	2"
EXTERIOR EXPOSED CONCRETE SURFACES	2"
INTERIOR EXPOSED CONCRETE SURFACES	1"
CONCRETE PITS	2"
CONCRETE CAST EXPOSED TO LIQUIDS	3"
CONCRETE CAST WITH WATERSTOPS	4"
CONCRETE EXPOSED TO DEICING SALTS	3"

DESIGN CODE	
2025 NEW YORK STATE BUILDING CODE	
2025 NEW YORK STATE EXISTING BUILDING CODE	REPAIR AND LEVEL II ALTERATION
BUILDING RISK CATEGORY	III
LIVE LOADS	
STORED 1" CRUSHER RUN	100 PCF
FRONT-END LOADER (CASE 621F BASIS OF DESIGN)	
- FRONT AXLE LOAD	25 KIP
- TIRE CONTACT AREA	236 SQ. IN.
- FRONT WHEEL LOAD	12.5 KIP
SLAB-ON-GRADE	250 PSF
BOILER HOUSE FIRST FLOOR TOTAL LOAD (TEMPORARY SHORING)	350 PSF

1. DELEGATED DESIGN ITEMS SHALL BE DESIGNED, INCLUDING A COMPREHENSIVE ENGINEERING ANALYSIS, BY A QUALIFIED PROFESSIONAL ENGINEER USING PERFORMANCE REQUIREMENTS AND DESIGN CRITERIA INDICATED IN THE DRAWINGS, PROJECT SPECIFICATIONS, AND APPLICABLE CODES.
2. BUILDING SYSTEMS AND COMPONENTS DESIGNATED AS DELEGATED DESIGN, AS INDICATED IN THE PROJECT SPECIFICATIONS, INCLUDE BUT ARE NOT LIMITED TO:
 - A. TEMPORARY SHORING FRAMING AND SUPPORT SYSTEMS FOR EXISTING MASONRY WALL.
 - B. TEMPORARY SHORING FRAMING AND SUPPORT SYSTEMS FOR BOILER HOUSE FIRST FLOOR.

1. THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING MEANS AND METHODS.
2. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL ENGAGE A PROFESSIONAL ENGINEER, LICENSED IN THE STATE OF NEW YORK, TO PREPARE A TEMPORARY SHORING SUBMITTAL, WHICH SHALL INCLUDE:
 - A. A TEMPORARY SHORING PLAN WITH ALL DETAILS, SECTIONS, PROCEDURES, AND EQUIPMENT REQUIRED TO COMPLETE THE WORK.
 - B. A COMPREHENSIVE STRUCTURAL ANALYSIS, SIGNED AND SEALED BY A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE STATE OF NEW YORK, FOR ALL TEMPORARY SHORING REQUIRED FOR THE SAFETY, STABILITY AND ALIGNMENT OF THE STRUCTURE.
3. SHORING SHALL ADEQUATELY SUPPORT THE DEAD AND LIVE LOADING PROVIDED IN THE DESIGN LOAD NOTES.
4. PROVIDE POSITIVE CONNECTIONS BETWEEN ALL SHORING COMPONENTS IN THE SYSTEM, INCLUDING THE ATTACHMENT TO EXISTING CONCRETE SLABS.
5. FIELD VERIFY EXISTING UTILITIES PRIOR TO CONSTRUCTION. COORDINATE UTILITY REMOVALS WITH THE OWNER.
6. SHORING CONTRACTOR SHALL VERIFY EXISTING FIELD DIMENSIONS AND CONDITIONS AS REQUIRED TO FIT OUT SHORING COMPONENTS (SIZES, WIDTH, SPACING, ELEVATIONS, ETC.) AS REQUIRED.
7. SHORING SHALL BE DESIGNED TO BE ADEQUATELY SUPPORTED BY THE EXISTING SLAB ON GRADE. PROVIDE CRANE MATS AND/OR CRIBBING TO DISTRIBUTE LOADS UNIFORMLY OVER SLAB. PRESSURE ON SLAB NOT TO EXCEED 1000 PSF. DO NOT IMPOSE POINT LOADS ON SLAB.

UPON COMPLETION OF THE WORK, CONTRACTOR SHALL VISIT THE SITE EVERY 3 MONTHS FOR 1 YEAR AND RESPECT EACH SHORING LOCATION FOR SIGNS OF MOVEMENT, SETTLEMENT, TIMBER SHRINKAGE, ETC. SHORING POSTS SHALL BE ADJUSTED TO RE-ESTABLISH PROPER BEARING IF MOVEMENT HAS OCCURRED.

1. A SPECIAL INSPECTION PROGRAM HAS BEEN DEVELOPED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS AND ADDITIONAL INFORMATION.
2. OWNER WILL EMPLOY SERVICES OF A SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS AND ASSOCIATED TESTING AND SAMPLING IN ACCORDANCE WITH ASTM E329 AND REQUIRED BY THE BUILDING CODE.
3. SPECIAL INSPECTION AGENCY SHALL NOTE DEFICIENCIES NOT IN COMPLIANCE WITH THE CONTRACT DRAWINGS DURING CONSTRUCTION AND NOTIFY THE CONTRACTOR, PROJECT ARCHITECT/ENGINEER, AND CONSTRUCTION MANAGER IMMEDIATELY.
4. AFTER EACH INSPECTION, SPECIAL INSPECTION REPORTS ARE REQUIRED TO BE SUBMITTED TO THE PROJECT ARCHITECT/ENGINEER, CONSTRUCTION MANAGER, AND AUTHORITY HAVING JURISDICTION (AHJ).
5. THE CONTRACTOR IS RESPONSIBLE FOR COSTS OF RETESTING OR RECONSTRUCTION DUE TO DEFICIENCIES FROM THE CONTRACT DOCUMENTS AS NOTED BY THE SPECIAL INSPECTOR.
6. THE SPECIAL INSPECTION PROGRAM DOES NOT RELIEVE THE CONTRACTOR OF THE OBLIGATION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

1. PRIOR TO DRILLING, CONTRACTOR SHALL SCAN CONCRETE SURFACES USING GROUND PENETRATING RADAR (GPR) OR OTHER APPROVED SCANNING METHODS TO LOCATE EXISTING REINFORCING DURING PLACEMENT OF POST-INSTALLED ANCHORS. AVOID EXISTING REINFORCEMENT AND RELOCATE ANCHORS AS REQUIRED.
2. POST INSTALLED ANCHORS SHALL HAVE MINIMUM EDGE DISTANCES AND EMBEDMENTS AS FOLLOWS, UNLESS OTHERWISE NOTED:
 - A. CONCRETE: 4" MINIMUM EDGE DISTANCE, 4" MINIMUM EMBEDMENT.
 - a. BASIS OF DESIGN: HILTI HIT-HY-200
 - B. MASONRY: 4" MINIMUM GROUDED EDGE DISTANCE AND NOT WITHIN 2" OF MORTAR JOINTS, 4" MINIMUM EMBEDMENT.
 - a. BASIS OF DESIGN: HILTI HIT-HY 270
3. INSTALL ALL MECHANICAL OR ADHESIVE ANCHORS IN ACCORDANCE WITH THE ANCHOR MANUFACTURERS INSTRUCTIONS, INCLUDING DRILLING, HOLE CLEANING, INSTALLATION, CURING TIME, AND TORQUE REQUIREMENTS.
4. REFER TO PROJECT SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS.
5. SUBMIT ANCHOR MANUFACTURER PRODUCT DATA FOR REVIEW.

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PREPARATION OF SHOP DRAWINGS.
2. ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE BUILDING CODE OF NEW YORK STATE, THE AISI CODE, THE AISC BUILDING CODE (AISC 318), THE AMERICAN WELDING SOCIETY CODE (AWS) AND ALL OTHER APPLICABLE STANDARDS. IN CASES OF CONFLICT, THE MOST STRINGENT SHALL GOVERN.
3. FOR ALL CONSTRUCTION MATERIALS AND METHODS, THE CONTRACTOR IS RESPONSIBLE FOR TEMPORARY BRACING, BRIDGING, OR SHORING AS REQUIRED FOR SAFETY, STABILITY, AND ALIGNMENT OF THE STRUCTURE. BRACING AND SHORING SHALL BE KEPT IN PLACE UNTIL PERMANENT STRUCTURAL SUPPORT IS FULLY EFFECTIVE.
4. DELEGATED DESIGN MAY BE REQUIRED FOR A NUMBER OF STRUCTURAL SYSTEMS (E.G. COLD-FORMED METAL FRAMING, TRUSSES, PRECAST CONCRETE, STEEL CONNECTIONS, SOIL SHORING, ETC.). REFER TO PROJECT SPECIFICATIONS FOR DESIGN CRITERIA AND OTHER PROJECT REQUIREMENTS.
5. REFER TO PROJECT SPECIFICATIONS FOR TESTING AND INSPECTION REQUIREMENTS. IF APPLICABLE, A SPECIAL INSPECTION PROGRAM HAS BEEN DEVELOPED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS.

1. BEFORE SUBMITTING BID, CONTRACTOR SHALL VISIT THE SITE AND EXAMINE THE CONDITIONS ON WHICH THEIR WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKSMANSHIP AND OPERATION ACCORDING TO THE INTENT OF THE CONSTRUCTION DOCUMENTS.
2. DEMOLITION AND CONSTRUCTION WORK SHALL BE EXECUTED IN A SAFE, CAREFUL, AND ORDERLY MANNER WITH THE LEAST POSSIBLE NOISE, DUST, OR DISTURBANCE TO THE OWNER. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCING WITH THE OWNER SO AS NOT TO DISRUPT THE OWNER'S OPERATIONS.
3. ANY UNKNOWN EXISTING UTILITIES FOUND DURING DEMOLITION AND EXCAVATION SHALL BE VERIFIED WITH OWNER PRIOR TO REMOVAL.
4. CONTRACTOR SHALL REMOVE ALL EXISTING BUILDING CONSTRUCTION AND EQUIPMENT SCHEDULED TO REMAIN. COORDINATE DEMOLITION WITH THE DRAWINGS. REMOVE FROM PROJECT SITE ALL DEMOLISHED MATERIALS NOT INDICATED TO BE SALVAGED. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY DISPOSE OF SUCH MATERIALS.
5. CONTRACTORS SHALL MAINTAIN AT ALL TIMES, ALL EXISTING SMOKE AND FIRE PROTECTION. CONTRACTORS SHALL AT ALL TIMES, KEEP ALL EXISTING EYES FREE AND CLEAR OF DEBRIS. UPON COMPLETION OF WORK OR EACH WORKDAY, LEAVE ALL AREAS CLEAN AND ORDERLY.
6. FOR ALL REMOVALS, THE CONTRACTOR SHALL PATCH REMAINING SURFACES AS REQUIRED TO MATCH EXISTING ADJACENT SURFACES USING SIMILAR MATERIALS. CONTRACTORS SHALL PROTECT EXISTING CONDITIONS AND REPAIR ALL DAMAGED AREAS PROMPTLY TO ITS ORIGINAL CONDITION.
7. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PRELIMINARY DESIGN, PLANNING, AND SUPERVISING ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE PERFORMANCE OF THE WORK.
8. SAWCUTS FOR EXISTING CONCRETE TO BE DEMOLISHED SHALL NOT BE OVERCUT IN ANY DIRECTION. PRE-DRILL HOLES AT CORNERS OF ADEQUATE SIZE TO PREVENT ANY OVERCUT.
9. UNLESS OTHERWISE NOTED ON PLANS OR SECTIONS, ALL REINFORCING BAR TO BE CUT AT SAWCUT. REINFORCING NOTED TO REMAIN SHALL BE THOROUGHLY CLEANED AND INSPECTED FOR DETRIORATION.
10. ROUGHEN CONCRETE SURFACE IN CONTACT WITH NEW CONCRETE PLACEMENT AND THOROUGHLY CLEAN SURFACE. ICRl SURFACE PROFILE LEVEL 6 OR GREATER.

1. ALL FOUNDATIONS AND SLABS SHALL BEAR ON A COMPACTED SUBBASE HAVING A PRESUMPTIVE CODE MINIMUM NET ALLOWABLE BEARING CAPACITY OF 1,500 POUNDS PER SQUARE FOOT, ACCORDING TO THE STATE BUILDING CODE. FOUNDATIONS HAVE BEEN DESIGNED USING THE FOLLOWING PRESUMPTIVE SOIL TYPES: CLAY, SANDY CLAY, SILTY CLAY, CLAY SILT, SILT, SANDY SILT OR BETTER.
2. EXTERIOR CONSTRUCTION SHALL BE CARRIED DOWN NOT LESS THAN 4 FEET BELOW FINISHED EXTERIOR GRADE.
3. COMPACT FOUNDATION SUBGRADES TO A MINIMUM OF 98% MODIFIED PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.
4. THE SUB-BASE FOR THE SLABS ON GRADE IS TO BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT
5. BACKFILL NO SOIL RETAINING WALLS UNTIL A PERMANENT LATERAL STRUCTURAL SUPPORT SYSTEM IS FULLY EFFECTIVE.
6. IF MUD, ORGANIC SILTS, ORGANIC CLAYS, PEAT, SOFT/UNSUITABLE SOILS, OR UNCONTROLLED FILL ARE ENCOUNTERED AND DETERMINED AS UNSUITABLE BY THE SOILS TESTING AGENCY, THE CONTRACTOR SHALL REMOVE IN THEIR ENTIRETY AND REPLACE WITH A COMPACTED FOUNDATION SUBBASE MATERIAL.

1. CONCRETE SHALL BE NORMAL WEIGHT (120) AND HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:
 - A. ALL CONCRETE 5000 PSI
2. PROVIDE CORROSION INHIBITOR TO ALL CONCRETE MIX DESIGNS. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60. WELDED WIRE FABRIC REINFORCEMENT SHALL CONFORM TO ASTM A1065.
4. ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES" (ACI-315), AND BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE (ACI-318).
5. CONDUITS IN CONCRETE SLABS SHALL BE SPACED SUCH THAT THE CENTER TO CENTER DISTANCE BETWEEN CONDUITS IS A MINIMUM OF THREE TIMES THE OUTSIDE DIAMETER OF THE LARGEST CONDUIT. CONDUITS HAVING OUTSIDE DIAMETER LARGER THAN ONE THIRD OF THE SLAB THICKNESS SHALL NOT BE PERMITTED. CONDUITS THAT CROSS EACH OTHER IN THE SLAB SHALL NOT CONSUME MORE THAN ONE THIRD OF THE SLAB THICKNESS AT THE POINT OF INTERSECTION.
6. ALL CONDUITS SHALL BE NOT PERMITTED IN CONCRETE ELEMENTS.
7. INSTALL JOINT SEALANTS WITH MANUFACTURER INSTRUCTIONS AND ASTM C1193. INSTALL BACKINGS BEHIND SEALANT AT DEPTH TO PROVIDE OPTIMUM PERFORMANCE. TOOL SEALANTS TO CONCAVE CONFIGURATION.

LOW DENSITY CELLULAR CONCRETE (LDCC) FILL SHALL HAVE THE FOLLOWING MINIMUM PROPERTIES:

- A. CAST DENSITY: 30-35 PCF
- B. COMPRESSIVE STRENGTH AT 24 HOURS: 25 PSI
- C. COMPRESSIVE STRENGTH AT 28 DAYS: 100 PSI
- D. COMPRESSIVE STRENGTH AT 56 DAYS: 120 PSI
- E. MODULUS OF ELASTICITY: 90 KSI

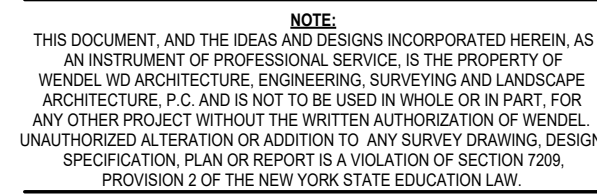
2. PLACE LDCC IN LIFTS NOT EXCEEDING 48" MAXIMUM. ALLOW EACH LIFT TO CURE A MINIMUM OF 1 DAY PRIOR TO PLACEMENT OF THE NEXT LIFT.

3. ALLOW FOR 7 DAYS OF CURE OF THE TOP LIFT PRIOR TO PLACEMENT OF SITE PAVEMENTS AND SUB-BASE. CONDUCT TESTING SHOWN IN SECTION 01100 IN ACCORDANCE WITH ASTM C495, ASTM C796, AND ASTM C889.

4. SUBMIT LDCC MIX DESIGN AND ALTERNATIVE PLACEMENT PROCEDURES FOR REVIEW.

1. DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.
2. PERFORM ALL WELDING USING QUALIFIED WELDERS AND IN ACCORDANCE WITH THE AWS "STRUCTURAL WELDING CODE - STEEL", LATEST EDITION.
3. ALL STRUCTURAL STEEL SHALL BE NEW STEEL WHICH CONFORMS TO ASTM WITH THE FOLLOWING MINIMUM FLOW YIELD STRESS (Fy):

A. "W" SHAPES	50 KSI, ASTM A992
B. TUBULAR SHAPES	46 KSI, ASTM A500, GRADE B
C. ROUND SHAPES	35 KSI, ASTM A53, GRADE B
D. ALL OTHER STEEL	36 KSI, ASTM A36
E. HIGH STRENGTH BOLTS	ASTM A325 OR A490
F. ANCHOR BOLTS	36 KSI OR 55 KSI, ASTM F1554
G. WELDING ELECTRODE	E70XX
4. FOR CONNECTIONS TO THE EXISTING STRUCTURE, THE CONTRACTOR SHALL MAKE ALL NECESSARY MEASUREMENTS AND COORDINATE DETAILS WITH THE EXISTING CONDITIONS, PRIOR TO PREPARATION OF SHOP DRAWINGS.



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0 1" 2"

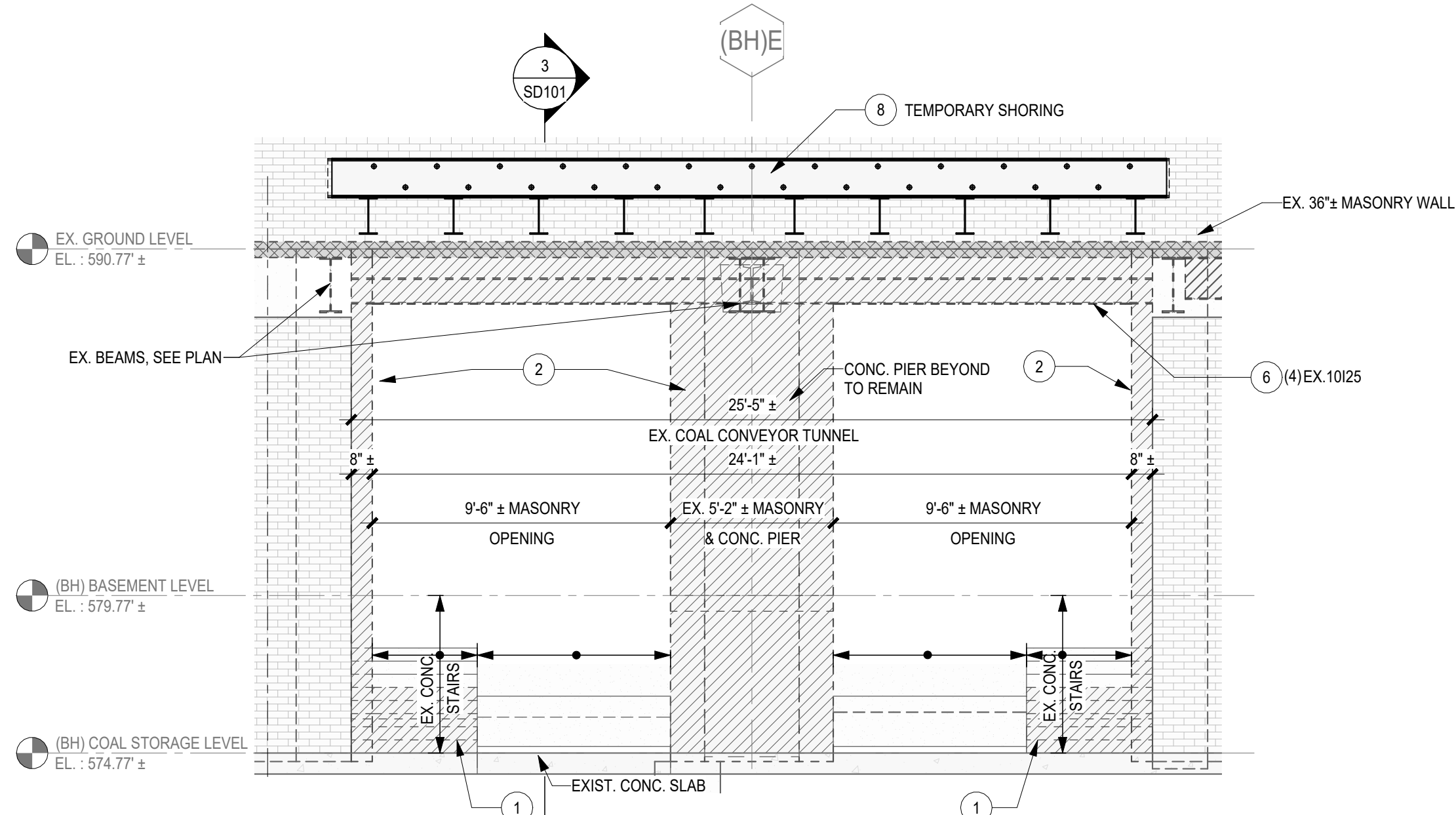
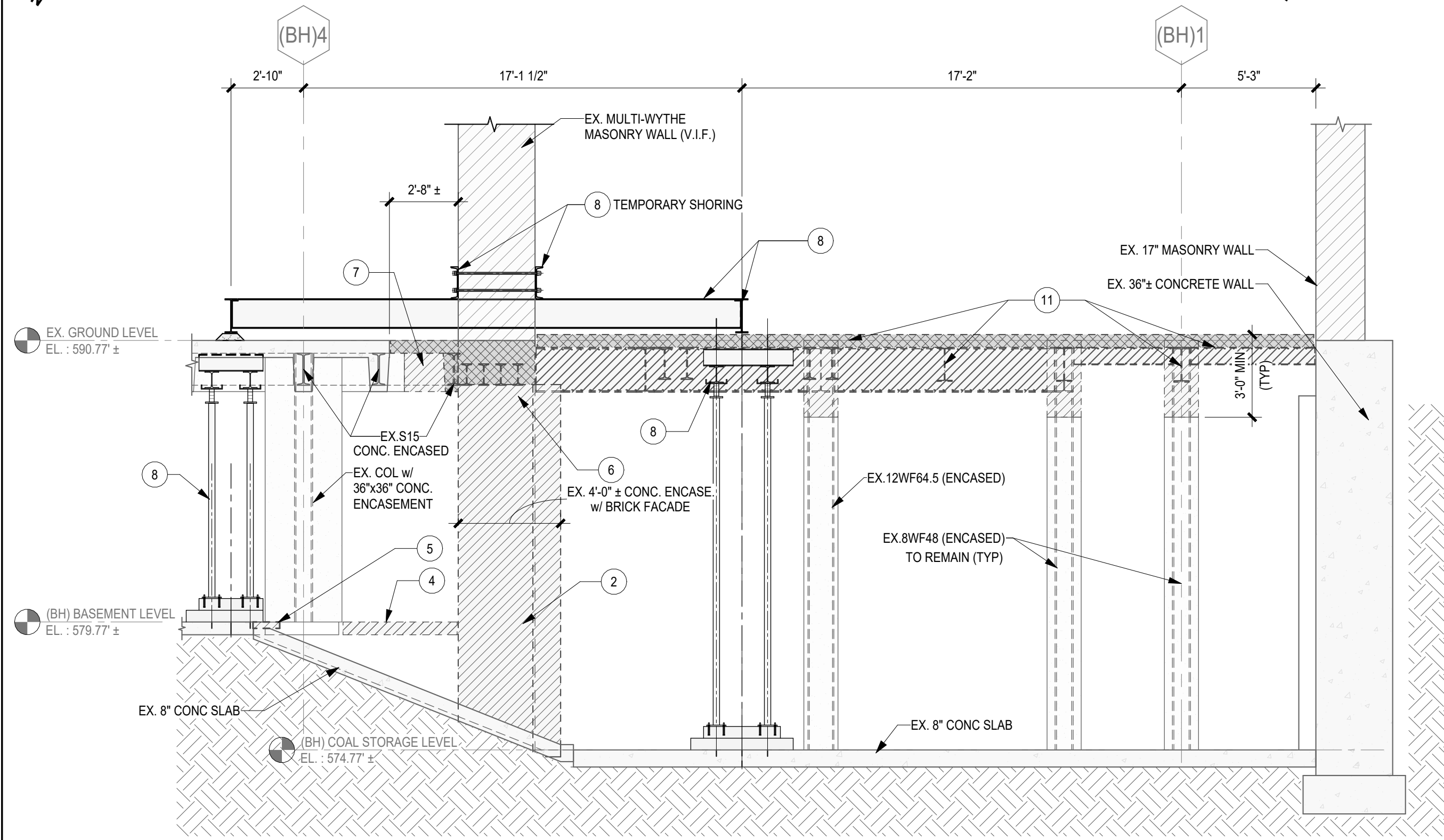
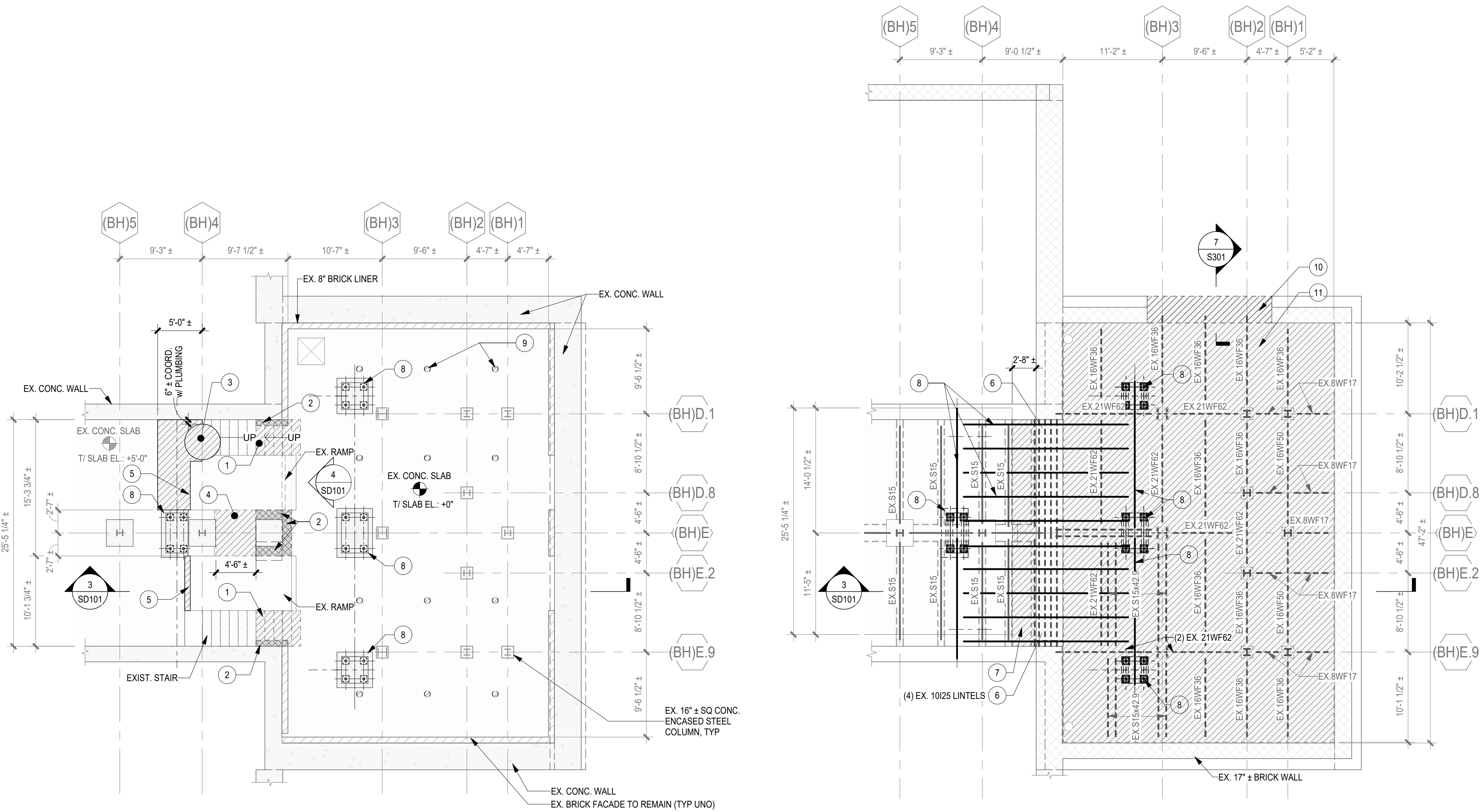
GENERIC SCALE BAR

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING.
IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	09-08-2026		
SCALE	As indicated		
DWN.	IZL/DWS	CHK.	MAW
PROJ. No.	462806		
DWG. No.			

DWG. No.

S001



STONE STORAGE NOTES:

- TOP OF TOPPING SLAB AT STONE STORAGE BUILDING ELEVATION = 0'-0" = 590.41' UNLESS OTHERWISE NOTED AS T/SLAB OR T/WALL + OR - FROM TOP OF SLAB ELEVATION SEE PLAN FOR TOTAL DEPTH, AND REINFORCING. COORDINATE WITH CIVIL DRAWINGS FOR ADDITIONAL TOP OF SLAB AND GRADE ELEVATIONS.
- TYPICAL SLAB AND REINFORCEMENT DETAILS, REFER TO S301
 - TOPPING SLAB: REINFORCED WITH 6x6/W2.1xW2.1 WWR
 - SLAB ON GRADE: VARIES AT INTERIOR AND EXTERIOR, REFER TO SECTIONS.
- VERIFY EXISTING CONCRETE SLAB, RAISED CONCRETE PADS, CONCRETE STAIRS AND RAMPS w/ TEMPORARY SHORING BASE. VERIFY IN FIELD PRIOR TO PLACEMENT AND DESIGN OF SHORING.
- DURING ALL PHASES OF CONSTRUCTION, CONTRACTOR SHALL MONITOR ALL EXISTING WALL CONDITIONS FOR ANY MOVEMENT, FROM FLOOR LEVEL TO THE TOP OF THE EXISTING MASONRY WALL CAP.
- CONTRACTOR SHALL VERIFY EXISTING FLOOR ELEVATIONS.
- TEMPORARY SHORING SHOWN AND SEQUENCE NOTES ARE ONLY FOR BASIS OF DESIGN. THE CONTRACTORS DELEGATED DESIGN ENGINEER SHALL SUBMIT SHORING PLANS AND CALCULATIONS CERTIFIED BY A LICENSED PROFESSIONAL ENGINEER FOR REVIEW.
- CONTRACTOR IS TO DETERMINE LOCATION OF ALL FORMED SLAB JOINTS.

STRUCTURAL DEMOLITION AND REPAIR SEQUENCE NOTES

- PROPOSED DEMOLITION AND REPAIR SEQUENCE IS DESCRIBED AS A BASIS OF DESIGN. ANY ALTERNATIVE SEQUENCING OF CONSTRUCTION SHALL BE SUBMITTED TO THE ENGINEER OF RECORD FOR REVIEW AND APPROVAL.
- OWNER TO REMOVE ALL STONE FILL STORED WITHIN THE BUILDING. ONCE THE STONE IS FULLY REMOVED, THE OWNER WILL COORDINATE THE REMOVAL OF THE EXISTING SHORING SYSTEM LOCATED IN THE BASEMENT. THIS WORK WILL BE COMPLETED PRIOR TO THE START OF THIS PROJECT'S SCOPE OF WORK.
- PROVIDE TEMPORARY SHORING SYSTEM DESIGNED & DETAILED BY THE CONTRACTOR'S DELEGATED DESIGN ENGINEER TO SHORE THE EXISTING MASONRY WALL SHOWN ON 3/ SD101
- DEMOLISH THE EXISTING BRICK CLADDING TO EXPOSE CONCRETE CONSTRUCTION BEYOND. REFERENCE DEMOLITION PLANS AND SECTIONS FOR EXTENTS OF BRICK REMOVAL.
- DEMOLISH EXISTING (4) LINTELS AND BEAM REFERENCED ON SECTION 3/ SD101.
- CONSTRUCT CONCRETE WALL INFILL AS SHOWN ON SECTION 3/ S101.
- REMOVE TEMPORARY MASONRY WALL SHORING. PROVIDE TEMPORARY ACCESS HOLES THROUGH EXISTING FIRST FLOOR AS REQUIRED TO REMOVE SHORING.
- INFILL EXISTING BASEMENT WITH A LOW DENSITY CELLULAR CONCRETE (LDCC), REFER TO S001 FOR LDCC NOTES AND LIFT REQUIREMENTS. TOP OF FINAL LDCC LIFT TO BE -3'-0" BELOW FFE.
- ONCE THE LDCC IS INSTALLED, DEMOLISH EXISTING FIRST FLOOR STRUCTURAL SLAB, FRAMING, AND TOP 3'-0" ± OF EXISTING STEEL COLUMNS.
- PLACE AND COMPACT SUB-BASE, CONSTRUCT SLAB-ON-GRADE AND ASSOCIATED PUSH WALLS PER SECTION 3/ S101.

KEYNOTE	DESCRIPTION
1	SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE STAIRS
2	REMOVE EXISTING 8" BRICK LINER
3	SAWCUT AND REMOVE PORTION OF EXISTING CONCRETE SLAB FOR SUMP PIT. COORDINATE SIZE AND LOCATION REQUIRED WITH PLUMBING DRAWINGS
4	SAWCUT EXISTING CONCRETE SLAB FOR TRENCH DRAIN. COORDINATE SIZE REQUIRED WITH TRENCH DRAIN MANUFACTURER AND PLUMBING DRAWINGS
5	SAWCUT PORTION OF EXISTING CONCRETE SLAB / RAMP AS REQUIRED. REFER TO SECTION 3/SD101
6	REMOVE EXISTING (4) STEEL 10" WF BEAMS WITH MASONRY INFILL AS REQUIRED
7	SAWCUT AND REMOVE EXISTING CONCRETE SLAB. COORDINATE SAWCUT LOCATION WITH EXISTING CONCRETE ENCASED STEEL BEAM. REFER TO SECTION 3/SD101
8	TEMPORARY SHORING OF MASONRY WALL (TOWERS, BEAM SYSTEM, ETC.) TO BE DESIGNED BY CONTRACTOR'S DELEGATED DESIGN ENGINEER. REFERENCE DETAILS AND STRUCTURAL DEMOLITION AND REPAIR SEQUENCE NOTES FOR ADDITIONAL INFORMATION
9	DRILL (12) 8" DIA. DRAINAGE HOLES THRU EX. 8" BASE SLAB
10	DEMOLISH TOP 1'-4" OF EXIST CONCRETE PLINTH AT OPENING
11	EX. 6" CONCRETE SLAB AND STEEL FRAMING TO BE DEMOLISHED



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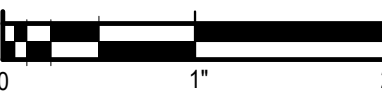
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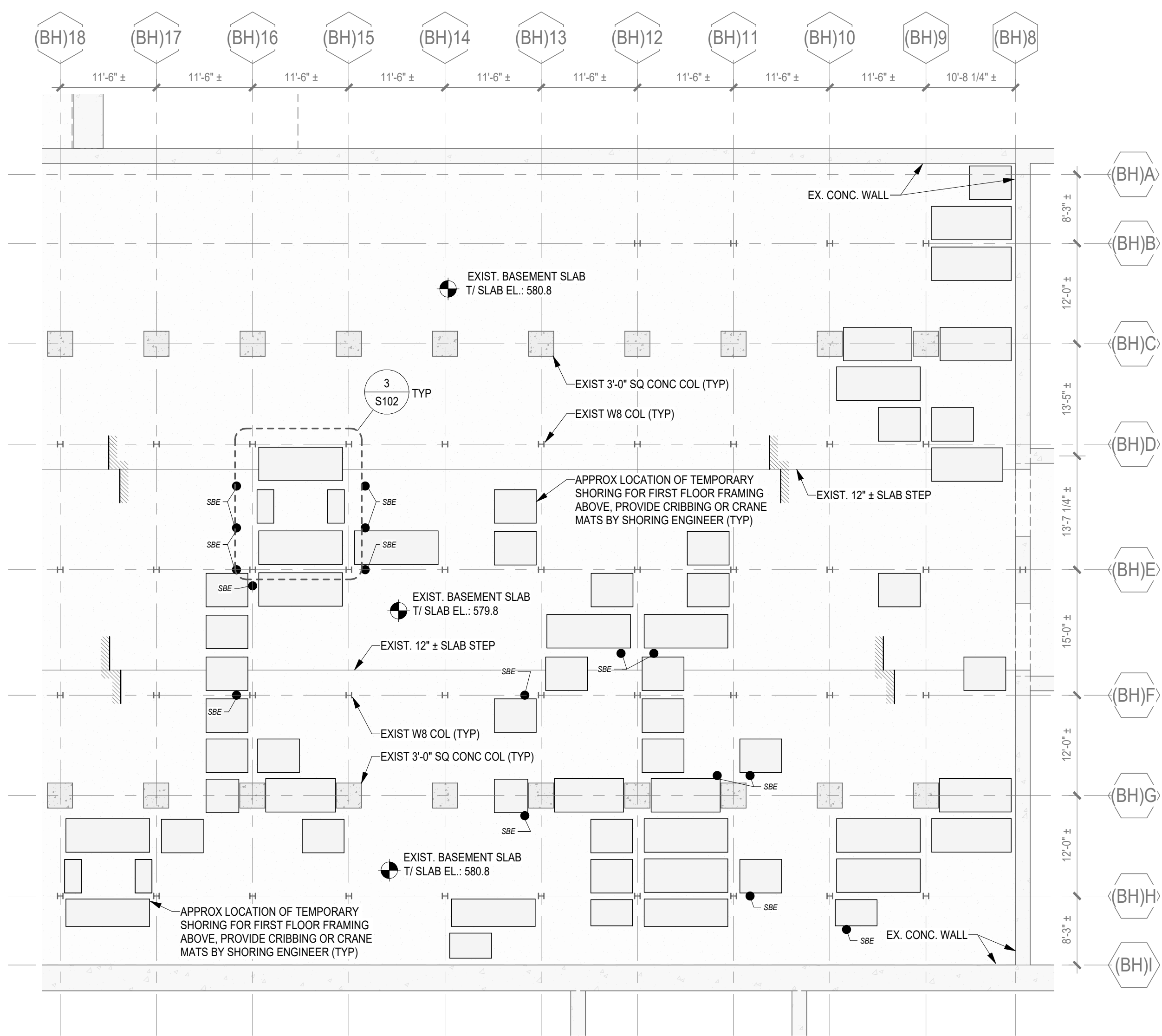
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STONE STORAGE SLAB DEMOLITION AND TEMPORARY SHORING PLANS

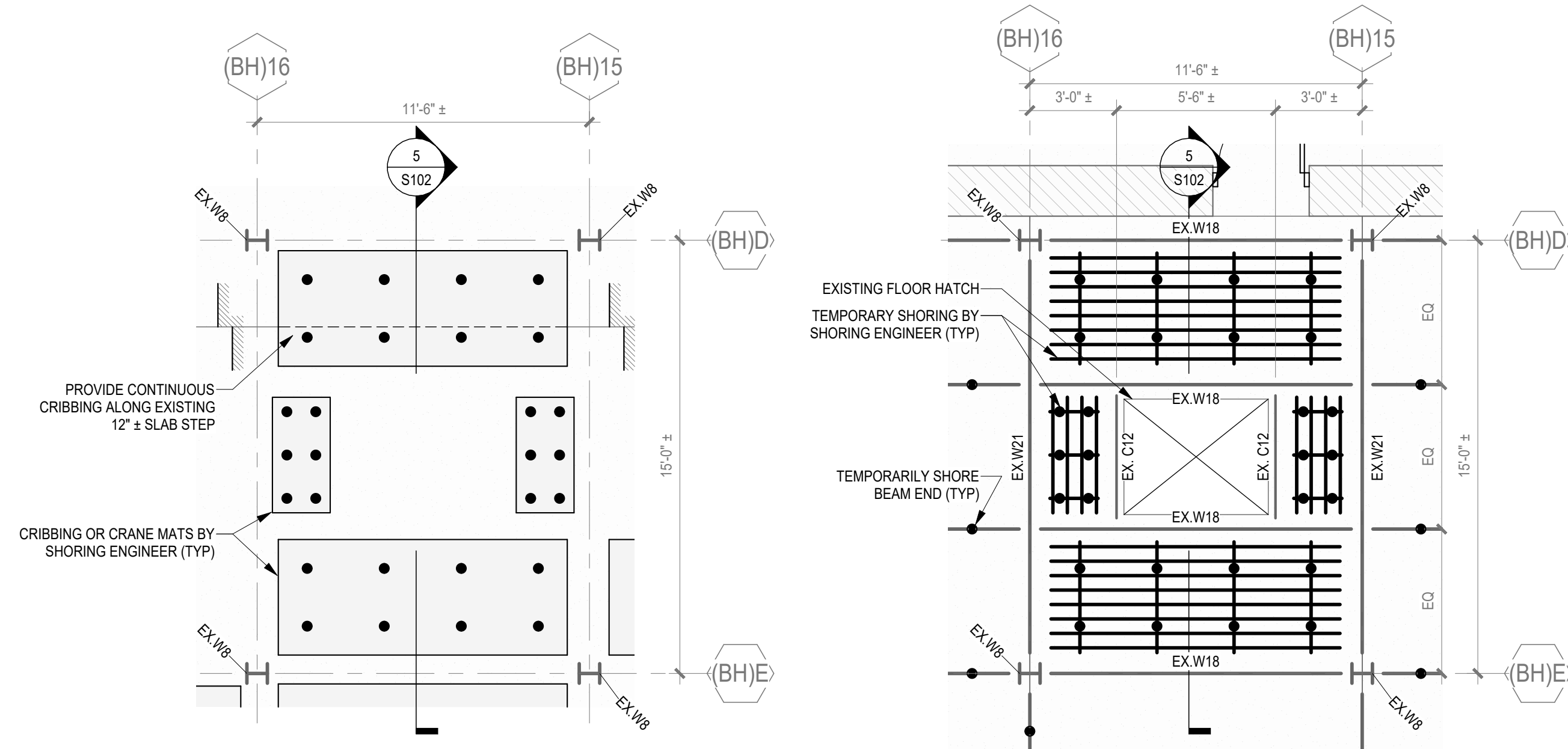


DATE 09-08-2026
SCALE As indicated
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DWG. No.

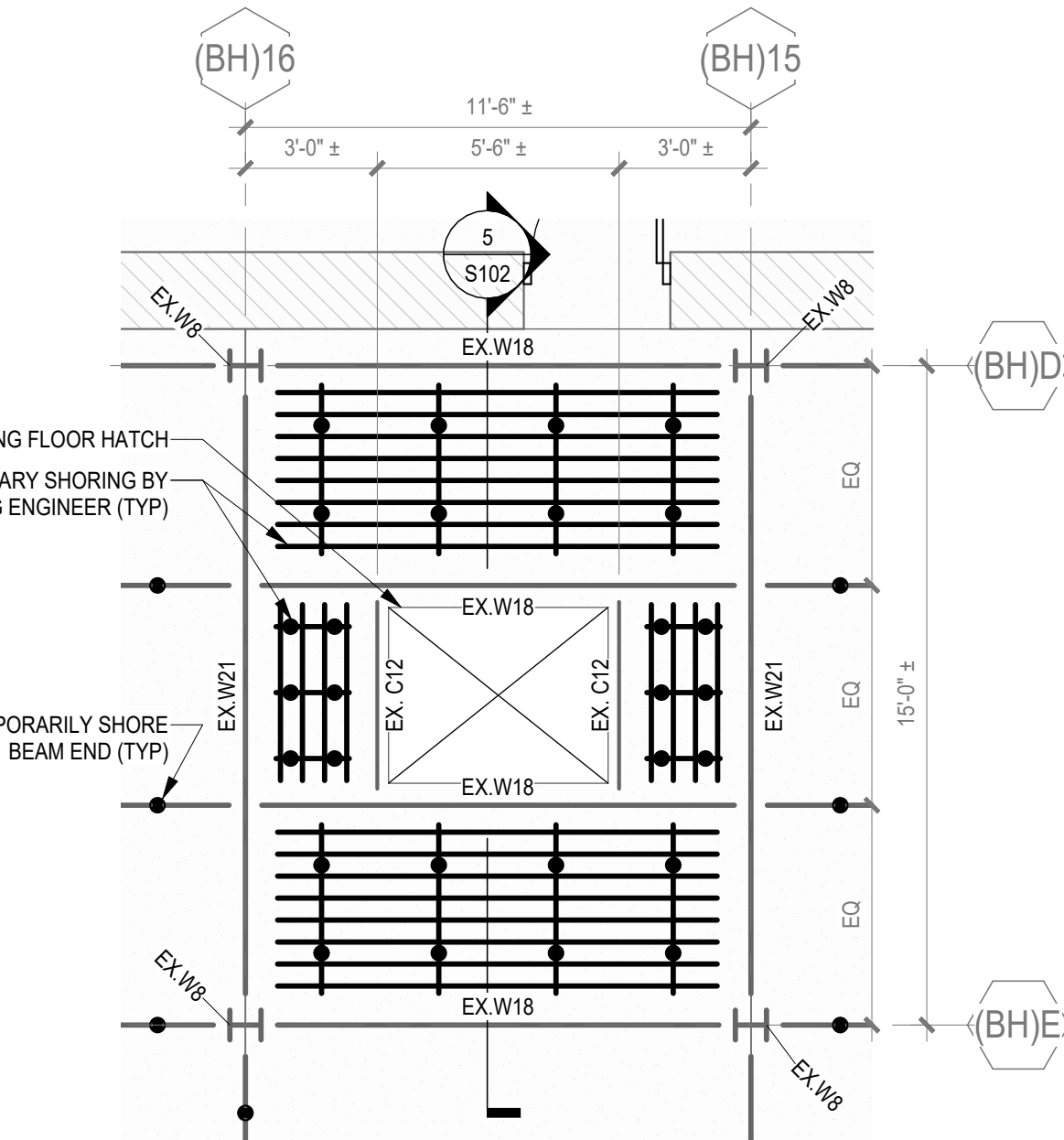
SD101



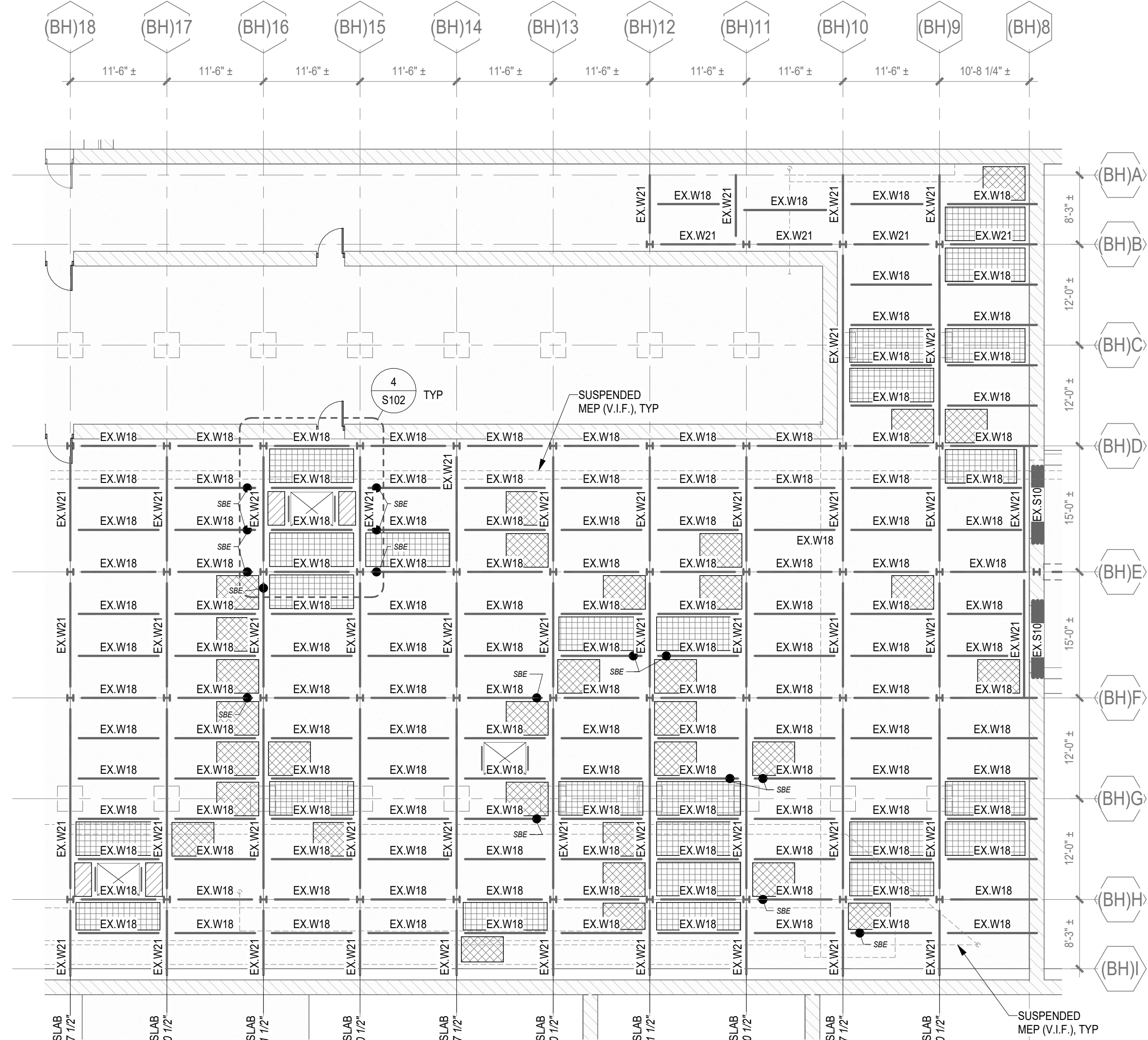
1 BOILER HOUSE PARTIAL BASEMENT SHORING PLAN
SCALE: 3/32" = 1'-0"



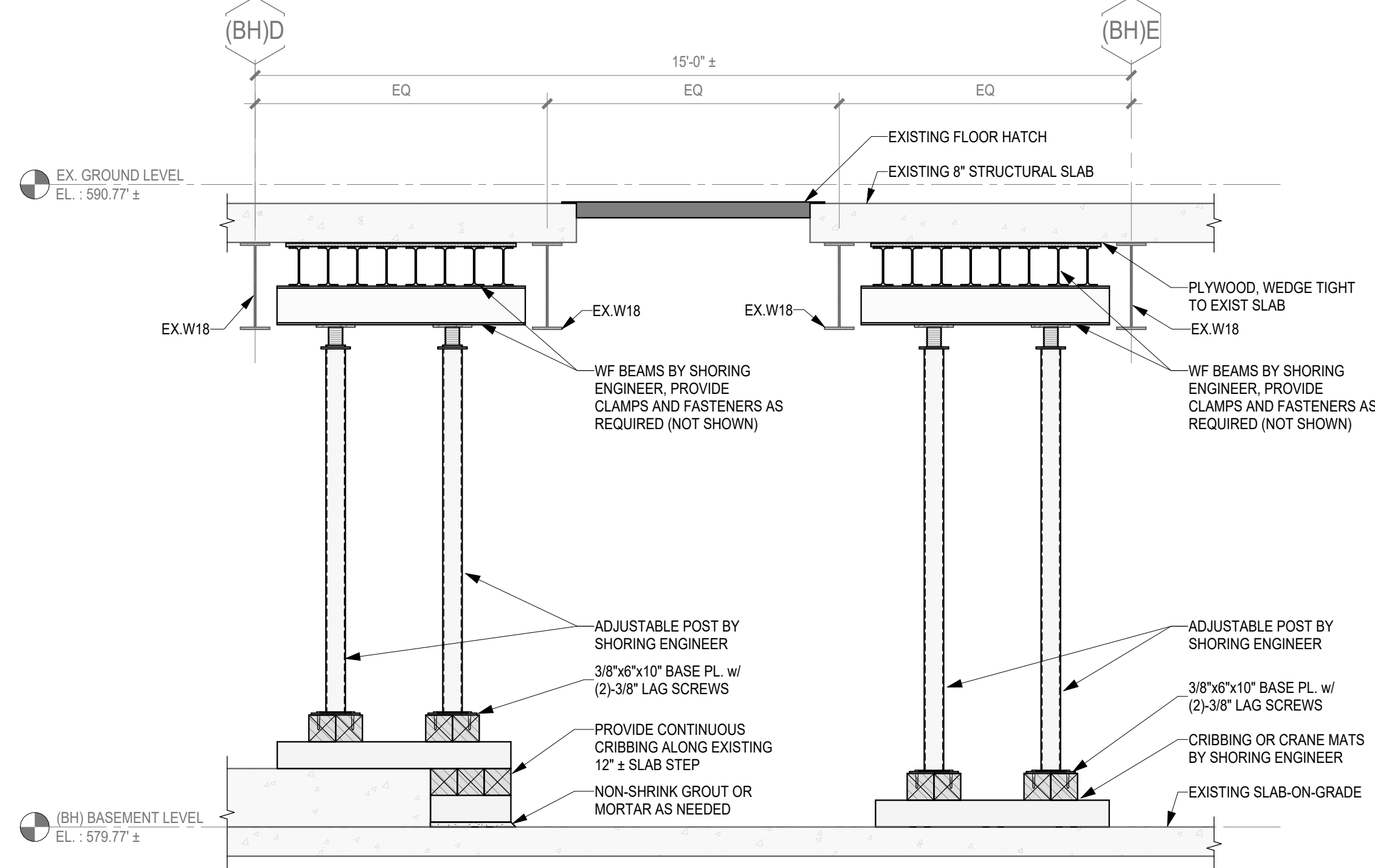
3 TYPICAL ENLARGED SHORING PLAN
SCALE: 1/4" = 1'-0"



4 TYPICAL ENLARGED SHORING PLAN
SCALE: 1/4" = 1'-0"



2 BOILER HOUSE PARTIAL FIRST FLOOR SHORING PLAN
SCALE: 3/32" = 1'-0"



5 SHORING SECTION
SCALE: 1/2" = 1'-0"

SHORING PLAN NOTES

- TOP OF BOILER HOUSE FIRST FLOOR SLAB ELEVATION = 0'-0" = 590.77' UNLESS OTHERWISE NOTED AS T/SLAB OR T/WALL + OR - FROM TOP OF SLAB ELEVATION. EXISTING FLOOR SLAB = 8" STRUCTURAL SLAB.
- TOP OF STEEL ELEVATION = -7 1/2" ± BELOW TOP OF SLAB ELEVATION UNLESS OTHERWISE NOTED AS (+ OR -) BELOW TOP OF SLAB ELEVATION.
- THE SHORING PLAN AND DETAILS HAVE BEEN PROVIDED AS A BASIS OF DESIGN. COORDINATE SHORING LOCATIONS AND DIMENSIONS WITH THE CONTRACTOR'S DELEGATED SHORING ENGINEER. SHORING CONTRACTOR MAY PROPOSE ALTERNATIVE LAYOUT FOR REVIEW AND APPROVAL.
- REFER TO AS-BUILT REFERENCE DRAWINGS FOR EXISTING INFORMATION NOT SHOWN.
- NOT ALL FRAMING IS SHOWN. SHORING ENGINEER TO DETERMINE IF ADDITIONAL MEMBERS ARE REQUIRED FOR SHORING, COLUMN STABILITY, ETC.
- INDICATES PROPOSED ADJUSTABLE SHORING COLUMN LOCATION.
- SBE INDICATES SHORED BEAM END. PROVIDE TEMPORARY SHORING AT UNDERSIDE OF EXISTING STEEL BEAM (2'-0" MAX FROM END OF BEAM). PROVIDE CRIBBING OR CRANE MAT AT BASE OF POST.
- ▨ INDICATES REQUIRED TEMPORARY SHORING TO SUPPORT UNDERSIDE OF EXISTING SLAB. APPROXIMATELY 4'-0"x10'-0".
- ▨ INDICATES REQUIRED TEMPORARY SHORING TO SUPPORT UNDERSIDE OF EXISTING SLAB. APPROXIMATELY 4'-0"x5'-0".
- ▨ INDICATES REQUIRED TEMPORARY SHORING TO SUPPORT UNDERSIDE OF EXISTING SLAB. APPROXIMATELY 2'-0"x4'-0".



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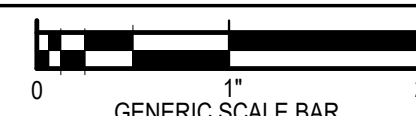


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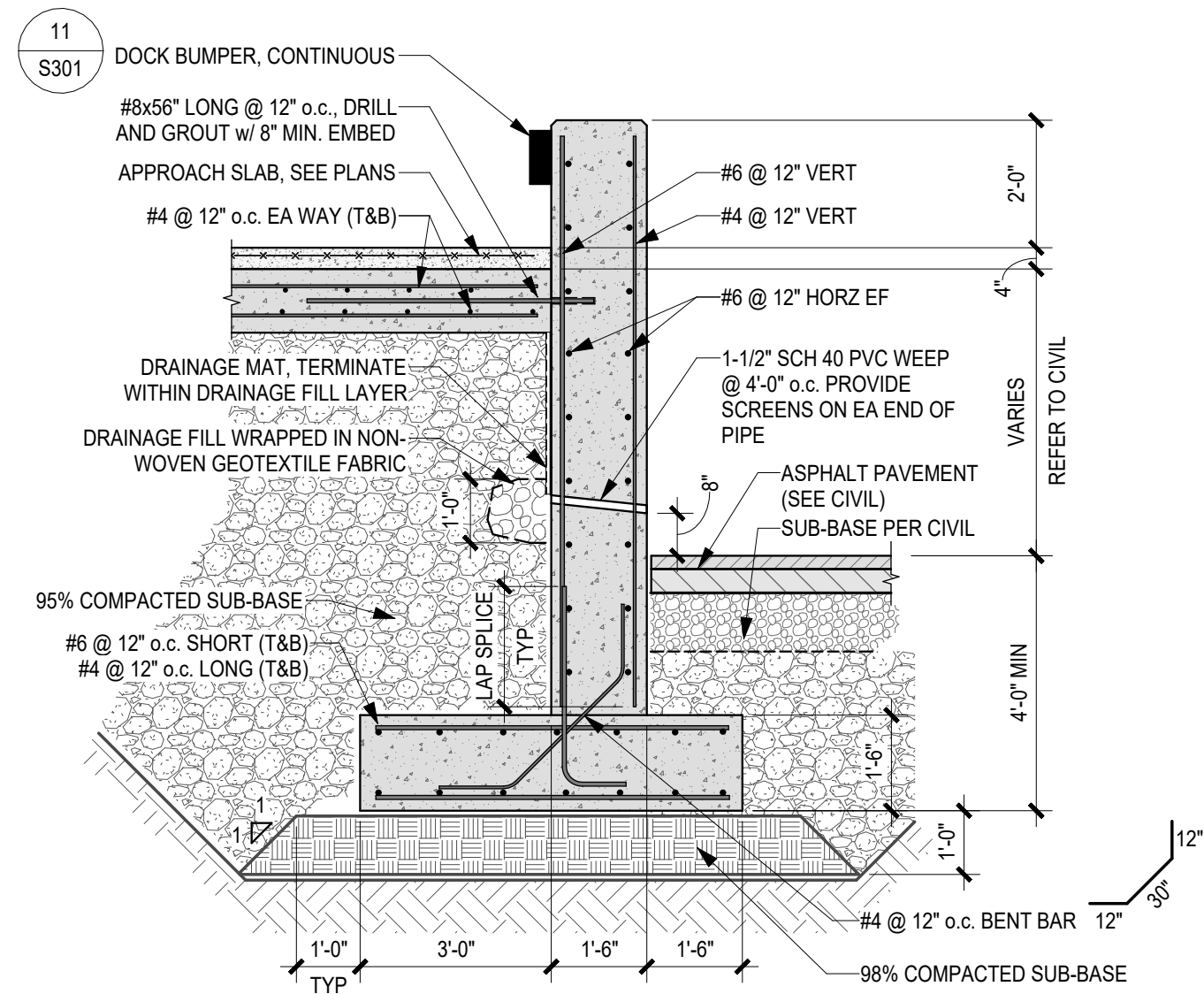
BOILER HOUSE PARTIAL FIRST FLOOR SHORING PLANS



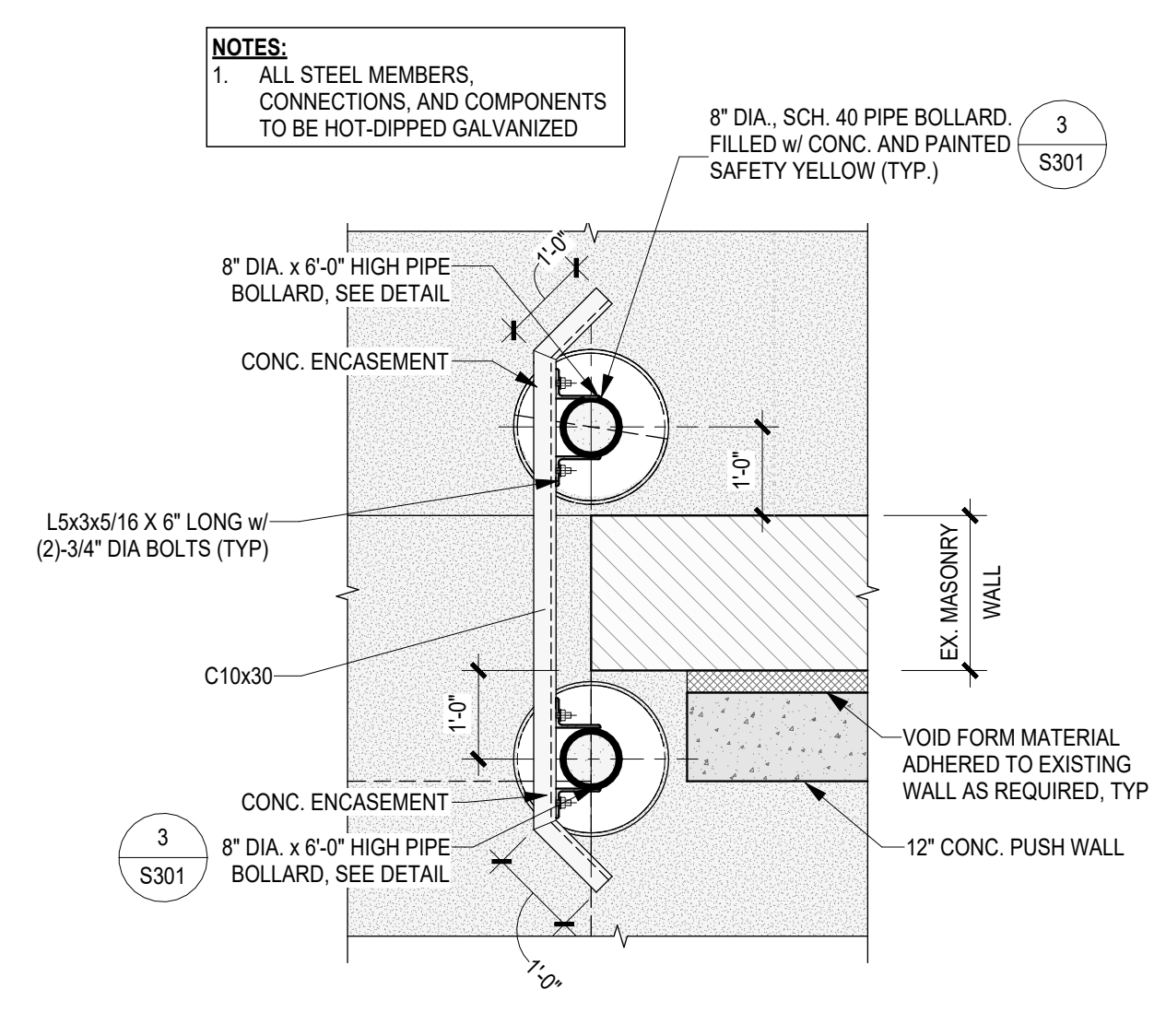
SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

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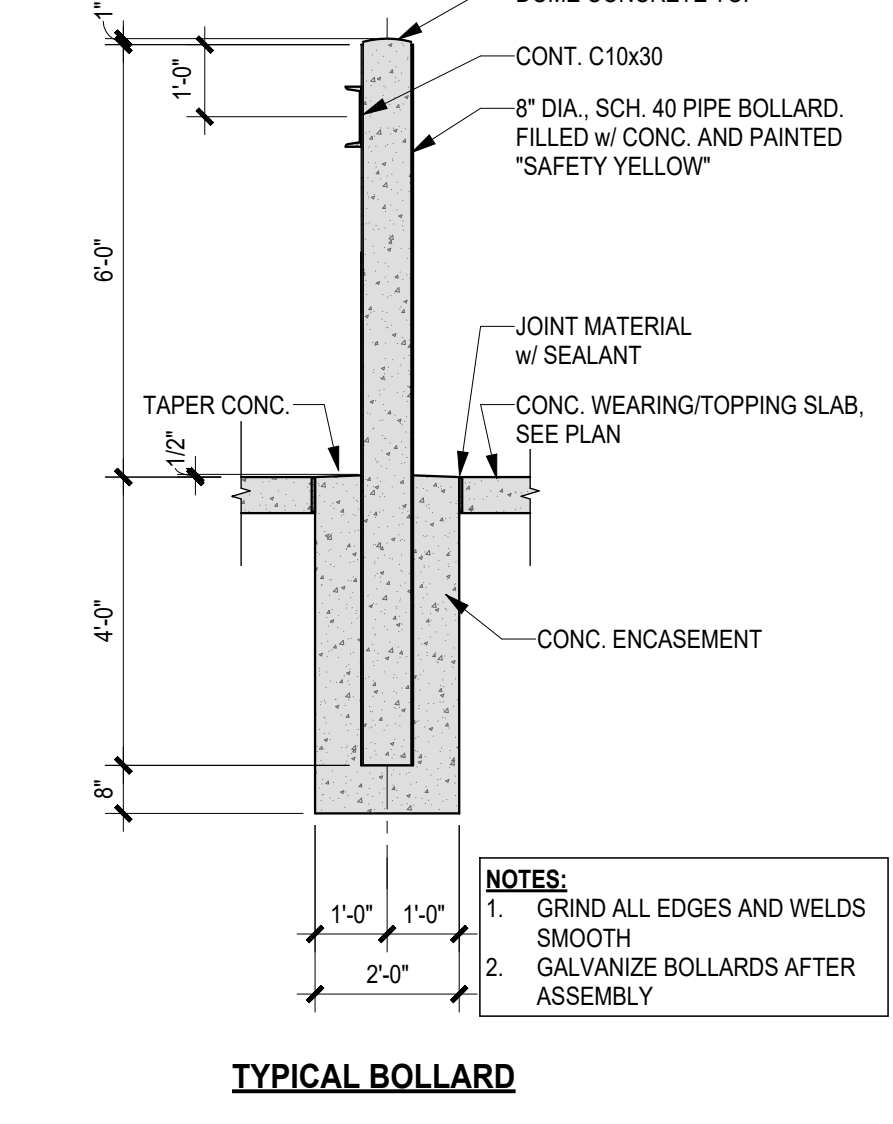
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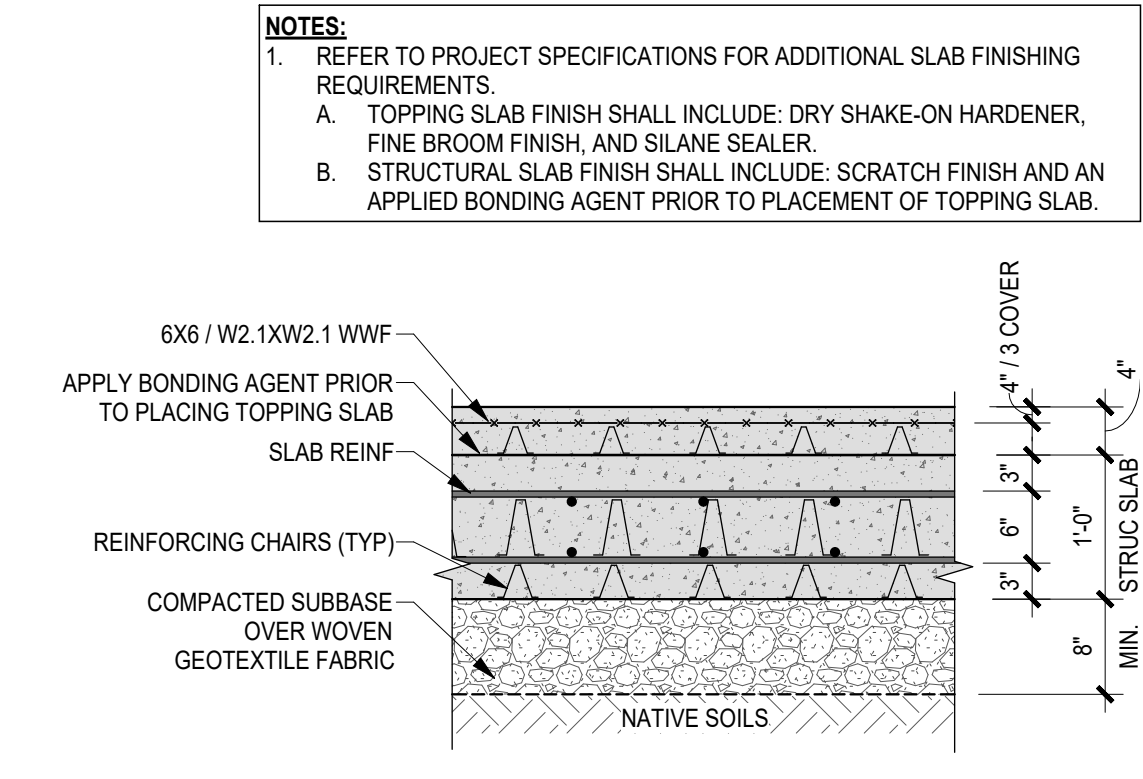
1 RETAINING WALL SECTION
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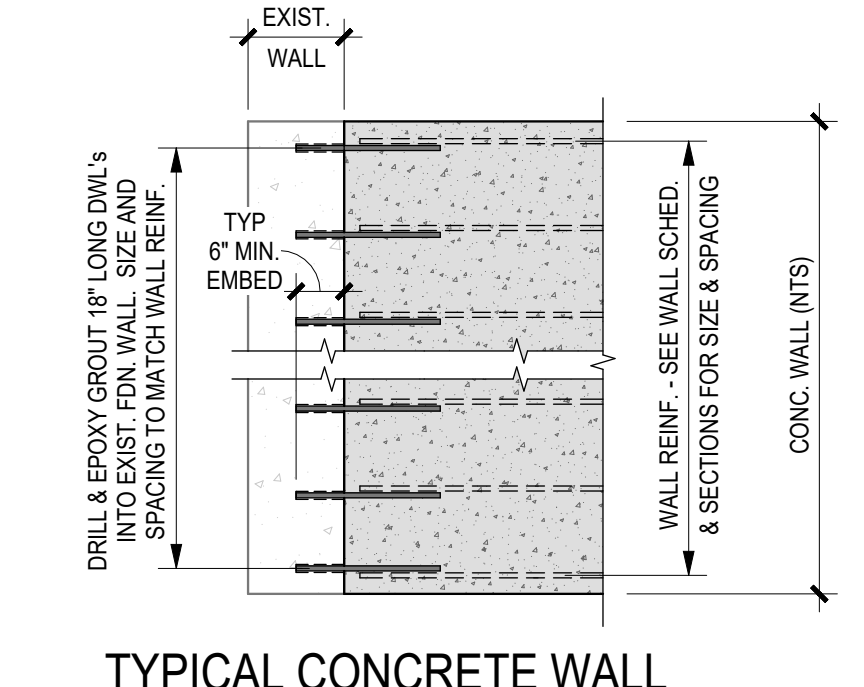
2 BOLLARD DETAIL PLAN
SCALE: 1/2" = 1'-0"



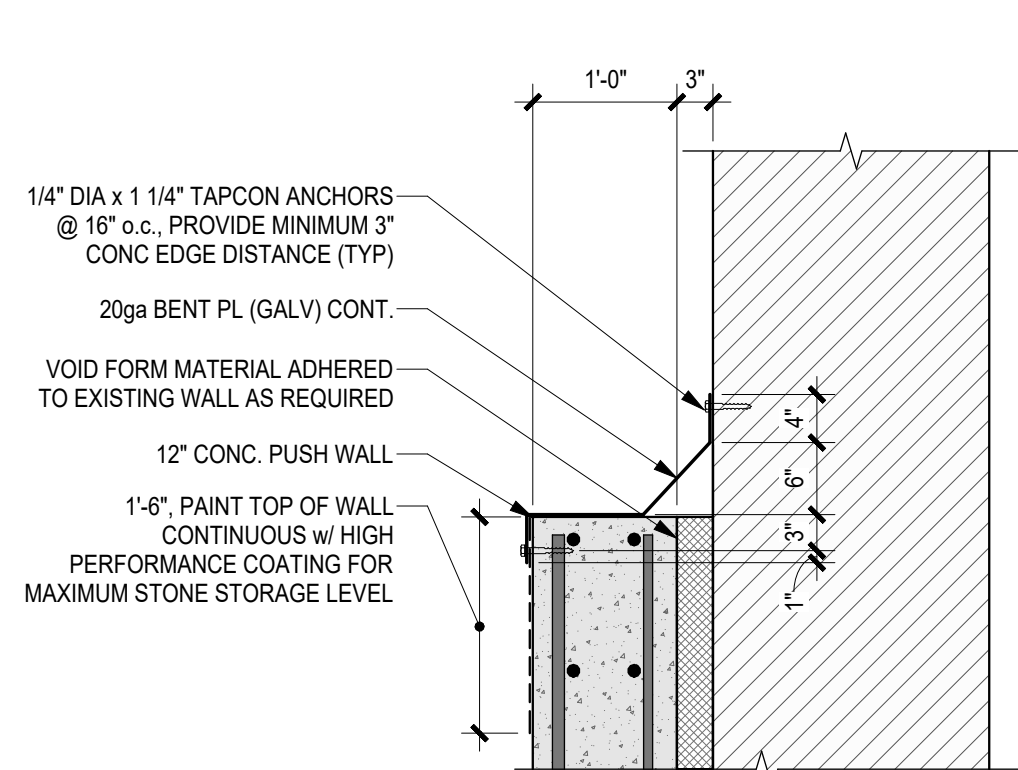
3 TYPICAL BOLLARD
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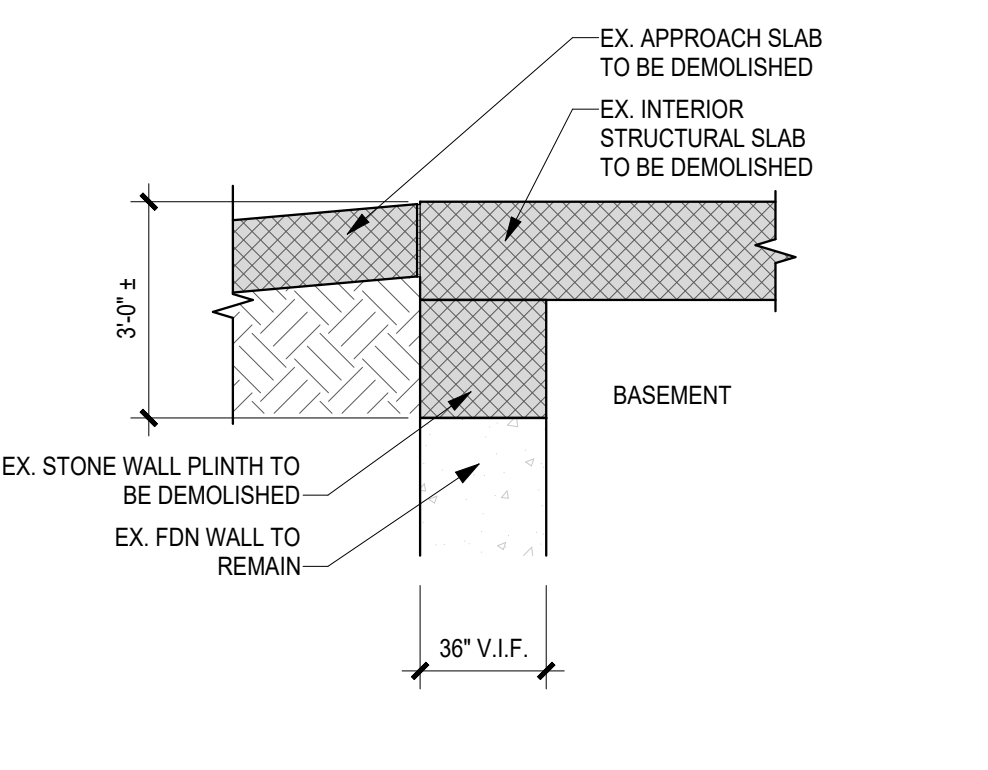
4 TYPICAL SLAB DETAIL
NOT TO SCALE



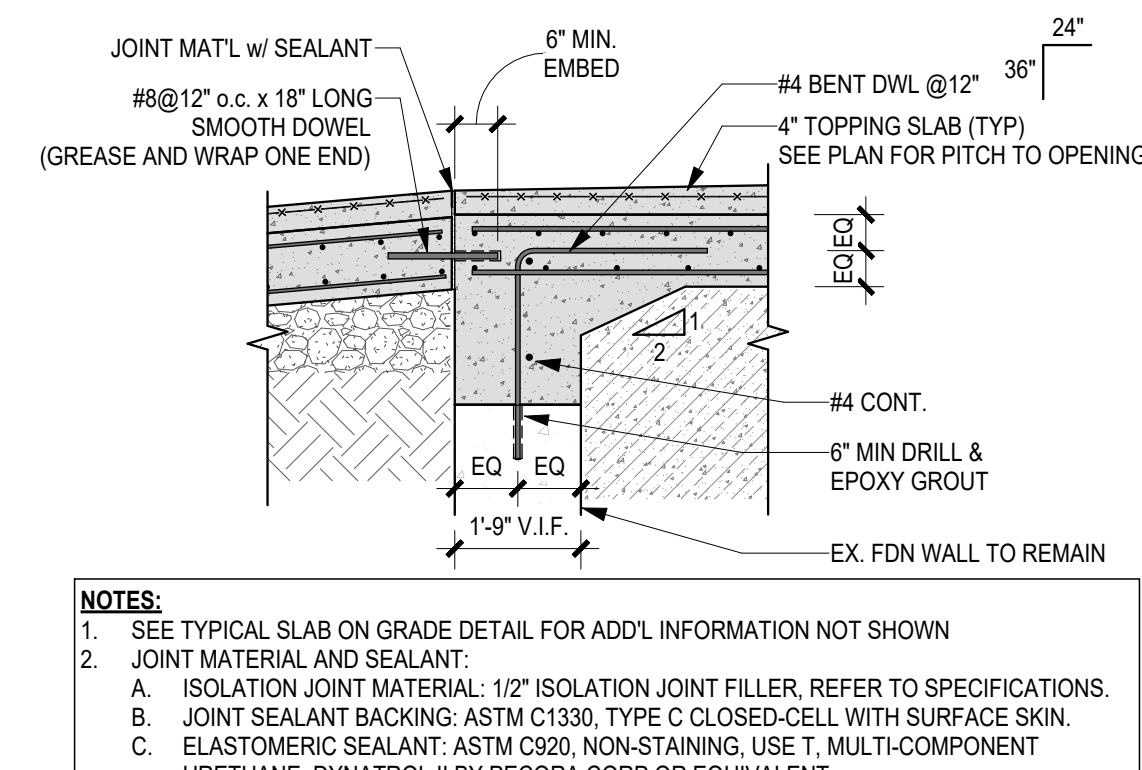
5 TYPICAL CONCRETE WALL TIE INTO EXISTING WALL
NOT TO SCALE



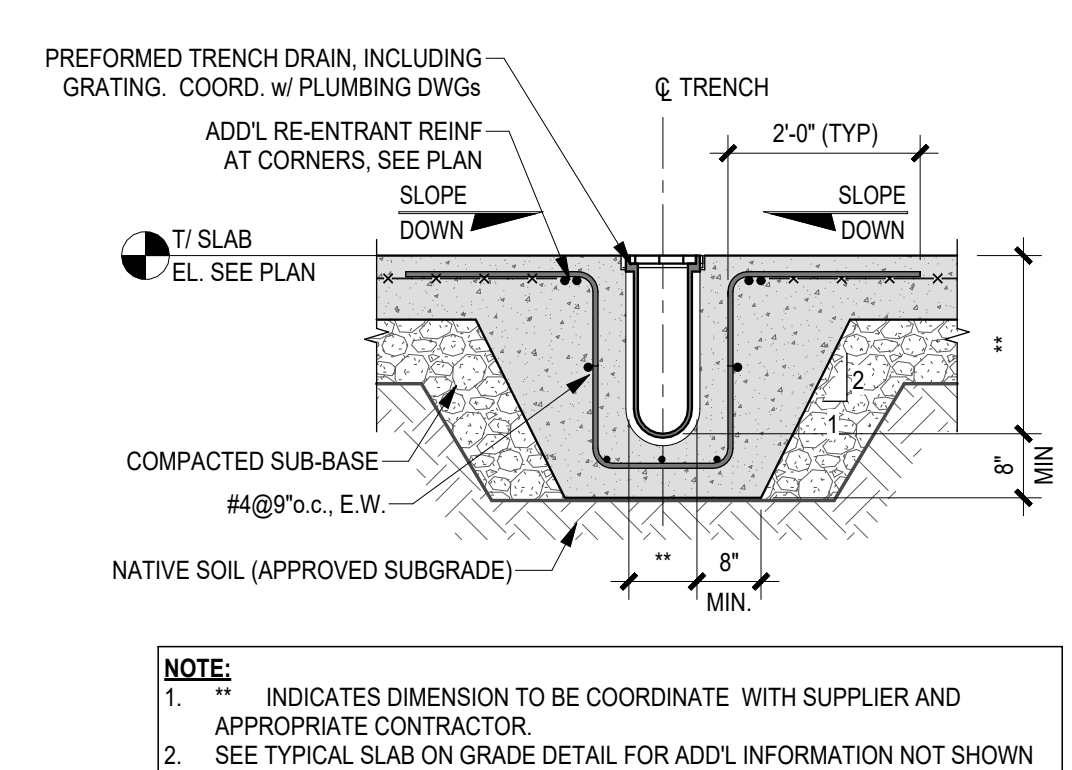
6 BENT PLATE DETAIL
SCALE: 3/4" = 1'-0"



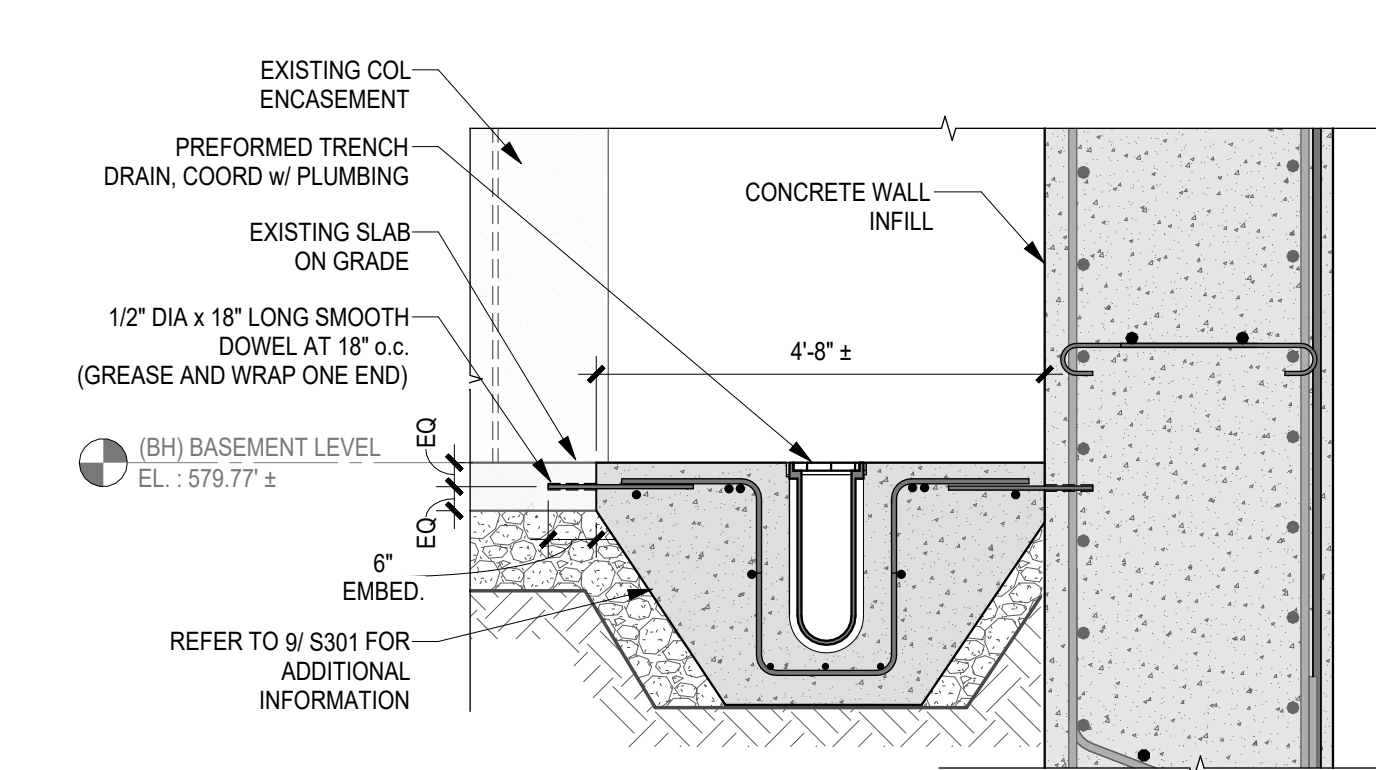
7 TYPICAL SLAB DEMO AT EXISTING DOOR
NOT TO SCALE



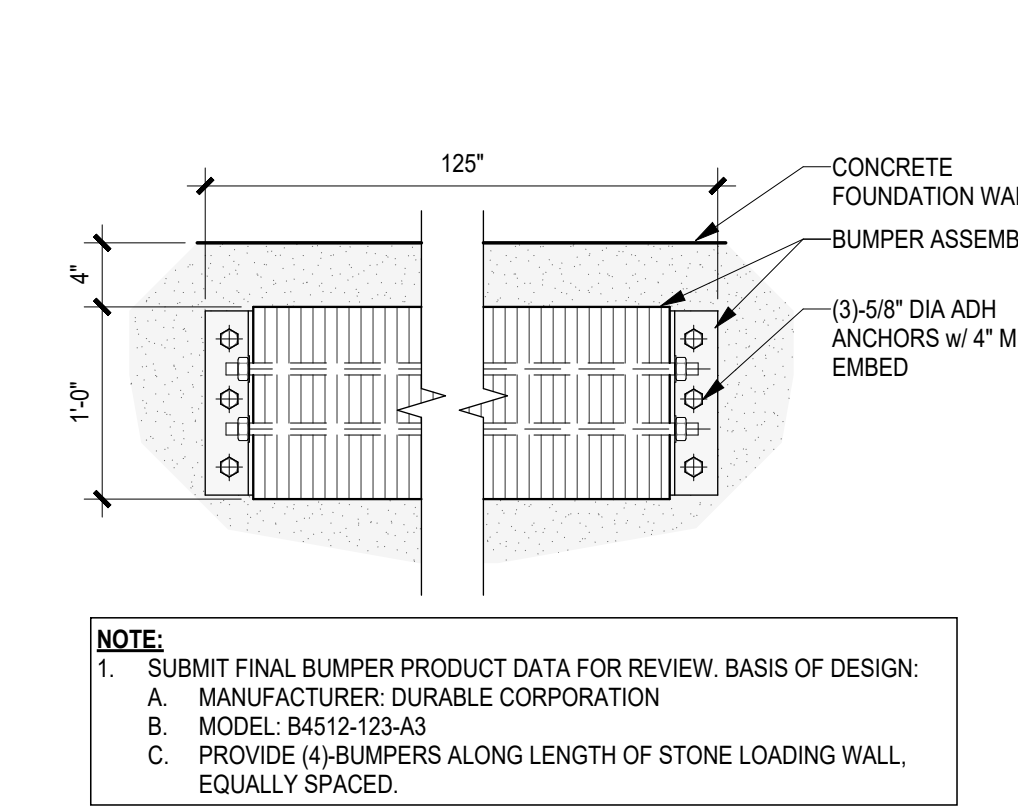
8 TYPICAL SLAB TIE INTO EXISTING WALL
NOT TO SCALE



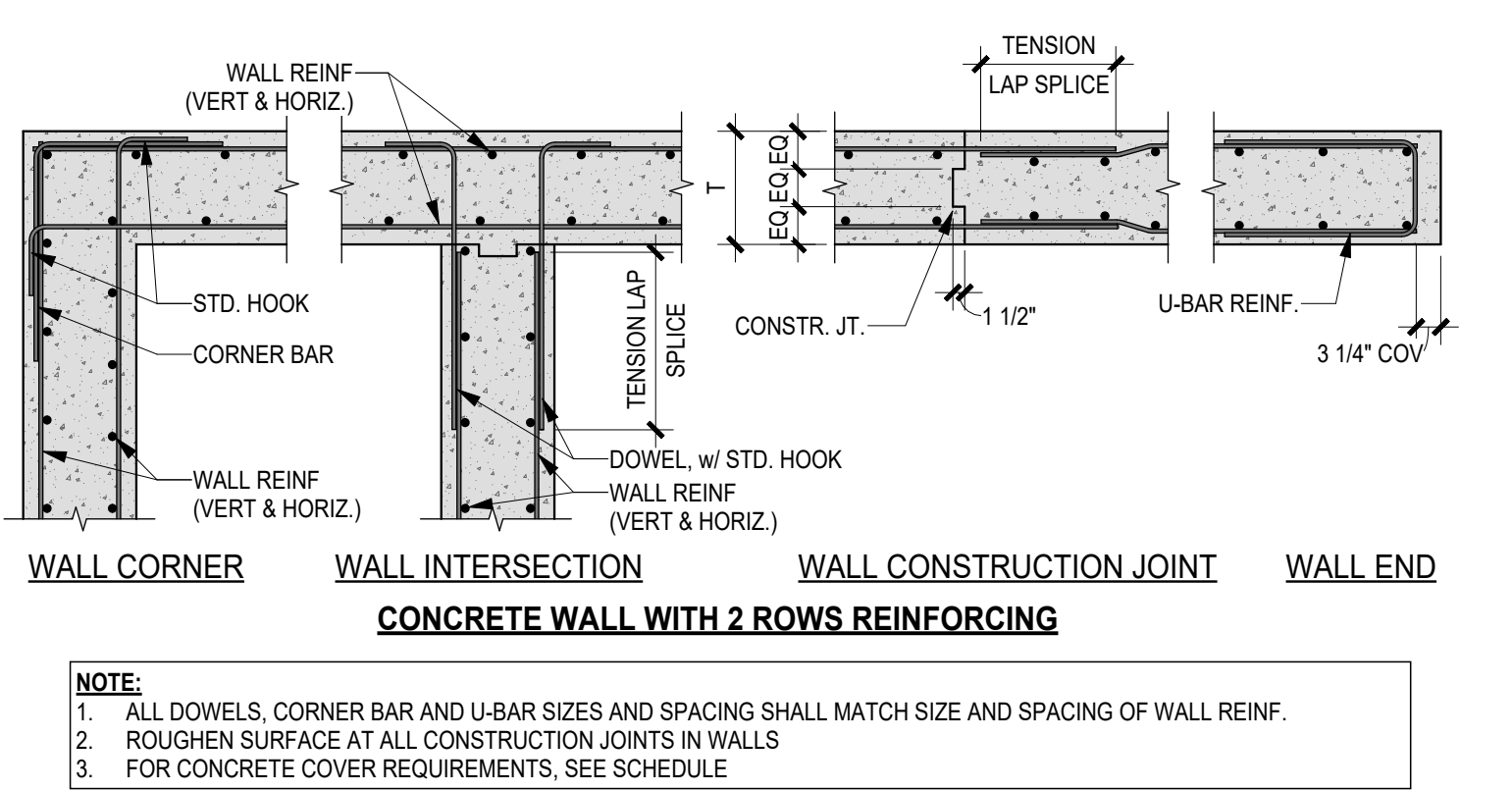
9 TYPICAL TRENCH DRAIN DETAIL
NOT TO SCALE



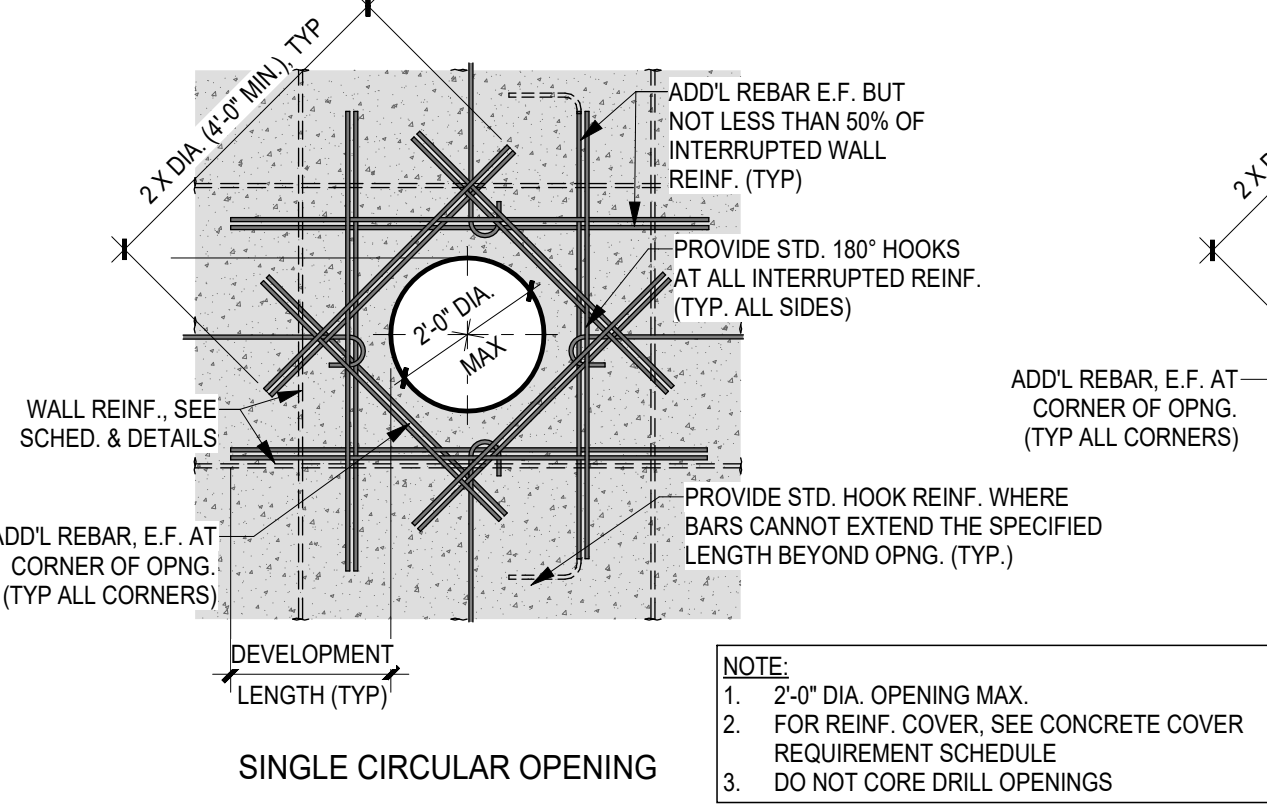
10 DRAIN SECTION AT EXISTING SLAB
SCALE: 1/2" = 1'-0"



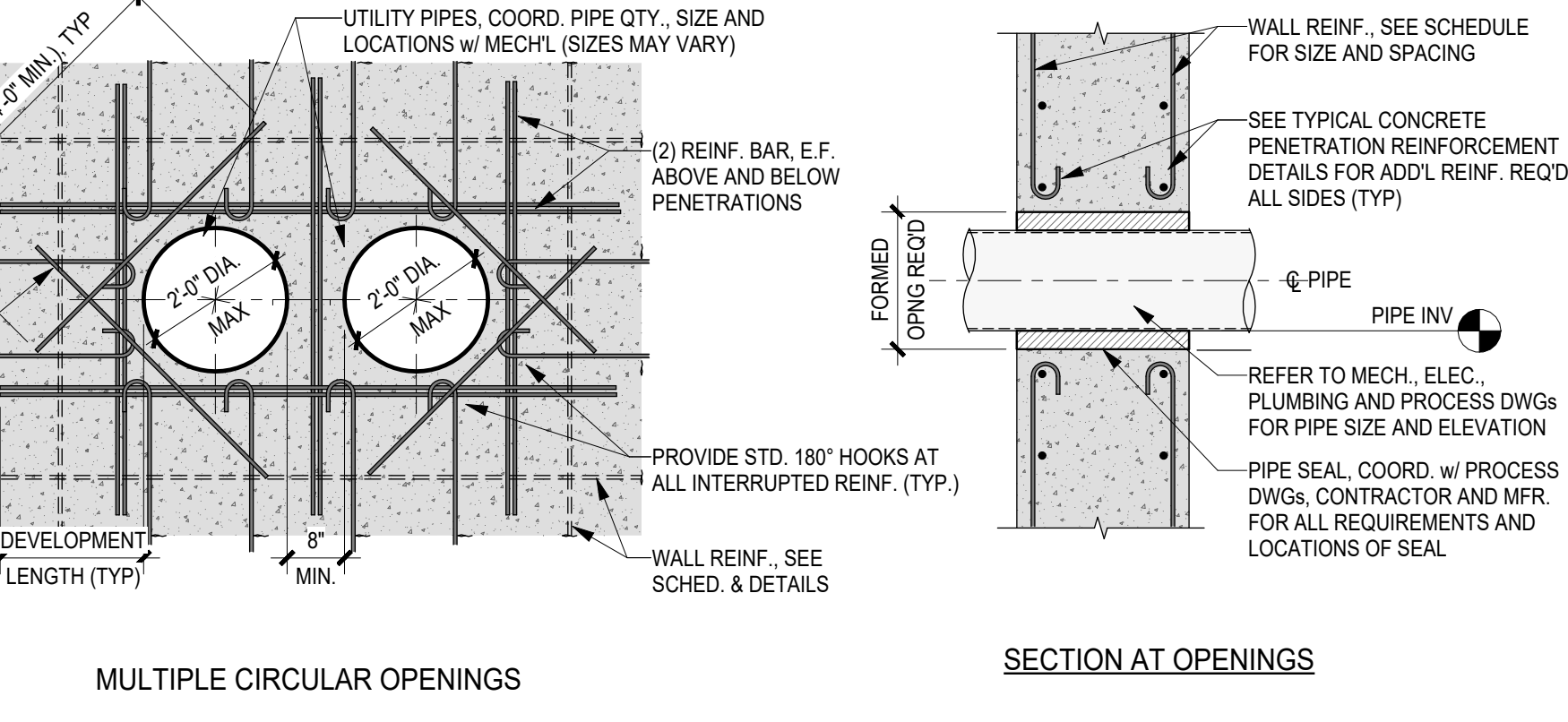
11 LOADING DOCK BUMPER
SCALE: 1" = 1'-0"



12 TYPICAL CONCRETE WALL AND FOOTING CONSTRUCTION
NOT TO SCALE



13 TYPICAL CONCRETE PENETRATION REINFORCEMENT
SCALE: 1/2" = 1'-0"



SECTION AT OPENINGS



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**STONE STORAGE BUILDING AND
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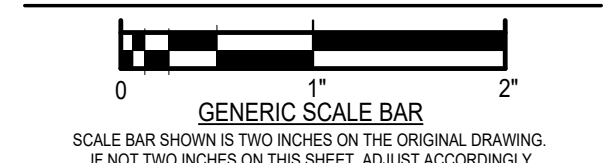
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DWG. TITLE
TYPICAL DETAILS AND SECTIONS



GENERIC SCALE BAR
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SCALE: As indicated
DWN: IZL/DWS CHK: MAW
PROJ. No: 462806
DWG. No:

S301

SYMBOLS & ABBREVIATIONS SCHEDULE

RECEPTACLES	
	DUPLEX RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	GFCI RECEPTACLE OUTLET, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	DUPLEX RECEPTACLE OUTLET, 18" AFF., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE WITH MATCHING COVERPLATE. TAG INDICATES PANELBOARD & DEDICATED BRANCH CIRCUIT THAT IT IS CONNECTED TO RECEPTACLE SHALL BE SUPPLIED BY A GFCI CIRCUIT BREAKER. PROVIDE LABEL ON COVER "PROTECTED BY GFCI"
	INDICATES (2) TAMPER RESISTANT, 20 AMP, COMMERCIAL GRADE RECEPTACLES IN 2-GANG BOX UNDER A COMMON MATCHING COVERPLATE. RECEPTACLES SHALL BE GROUNDING TYPE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	(2) GFCI RECEPTACLE OUTLETS, 18" A.F.F., TAMPER RESISTANT, 20AMP COMMERCIAL GRADE GROUNDING TYPE IN 2-GANG BACKBOX WITH MATCHING COMMON COVERPLATE. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	RANGE OR DRYER OUTLET VERIFY RECEPTACLE NEMA CONFIGURATION, RATING & INSTALLATION HEIGHT WITH SELECTED EQUIPMENT SUPPLIER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO. COVER PLATES SHALL BE STAINLESS STEEL.
	SPECIAL PURPOSE RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. VERIFY NEMA CONFIGURATION. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
	FLOOR MOUNTED RECEPTACLE AS CALLED FOR ON DRAWINGS OR AS REQUIRED BY EQUIPMENT MANUFACTURER. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
 	PROVIDE COMPLETE ELECTRICAL POWER CONNECTION TO MODULAR FURNITURE. WHIP TO BE PROVIDED WITH FURNITURE. CONNECTION SHALL INCLUDE MINIMUM WALL OR FLOOR JUNCTION BOX, WIRING TO CIRCUIT INDICATED, FINAL CONNECTION TO APPROPRIATE FURNITURE GROUP.
	TYPE #1 FLOOR BOX WITH (1) DUPLEX RECEPTACLE. UNLESS OTHERWISE NOTED, PROVIDE RECESSED IN CONCRETE WITH A METAL COVER. TAG INDICATES PANELBOARD & BRANCH CIRCUIT THAT IT IS CONNECTED TO.
POWER	
	WALL MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
	CEILING MOUNTED JUNCTION BOX, SIZE AS INDICATED OR PROVIDE MINIMUM SIZE REQUIRED BY LATEST EDITION OF NATIONAL ELECTRICAL CODE (NFPA 70-NEC).
	PROVIDE COMPLETE ELECTRICAL CONNECTION TO EQUIPMENT INDICATED (INCLUDING DISCONNECT, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	PROVIDE COMPLETE ELECTRICAL CONNECTION TO MOTOR INDICATED (INCLUDING DISCONNECT, STARTER, CONDUCTORS, RACEWAY, & OTHER REQUIRED HARDWARE. XX-X INDICATES EQUIPMENT TAG. REFER TO MECHANICAL EQUIPMENT SCHEDULE FOR ADDITIONAL INFORMATION.
	EMERGENCY POWER OFF BUTTON (EPO). PROVIDE WHERE INDICATED ON DRAWINGS. PROVIDE ALL REQUIRED INTERFACES AS CALLED FOR ON DRAWINGS OR REQUIRED BY EQUIPMENT MANUFACTURER.
	ELECTRICAL PANELBOARD, SURFACE MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	ELECTRICAL PANELBOARD, FLUSH MOUNTED. UNLESS OTHERWISE NOTED, INSTALL AT 72" A.F.F. TO THE TOP OF THE BOX.
	TYPICAL DISCONNECT (SAFETY SWITCH). REFER TO DRAWINGS FOR SIZE & ADDITIONAL FUSING REQUIREMENTS.
	TYPICAL DRY-TYPE TRANSFORMER (SIZE MIGHT VARY). UNLESS OTHERWISE NOTED, PROVIDE FLOOR MOUNTED WITH CONCRETE EQUIPMENT PAD.
	ELECTRICAL PIECE OF EQUIPMENT. REFER TO DRAWINGS FOR ADDITIONAL INFORMATION.

LIGHTING	
	LUMINAIRE (RECESSED). REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.
	LUMINAIRE (SURFACE OR PENDANT MOUNTED). REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD.
	RECESSED DOWNLIGHT. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD
	RECESSED WALLWASHER. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. UPPERCASE LETTER INDICATES TYPE IN LUMINAIRE SCHEDULE, LOWERCASE LETTER INDICATES TYPE OF SWITCHED LEG, NUMBER INDICATES CIRCUIT IN PANELBOARD
	EMERGENCY LUMINAIRE, PROVIDE LUMINAIRE TYPE AS INDICATED. REFER TO PLANS & SPECIFICATIONS FOR ADDITIONAL INFORMATION.
	WALL LIGHT SWITCH, ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER ONE COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. PROVIDE WITH MATCHING COVERPLATES
	"K" - KEYED SWITCH.
	"3" - 3-WAY
	"4" - 4-WAY
	"WP" - WATERPROOF (IP66 MINIMUM)
	WALL MOUNTED DIMMER CONTROLLER (LED OR FLUORESCENT). ROMAN NUMERAL INDICATES NUMBER OF SWITCHES GANGED UNDER COMMON COVERPLATE. LOWER CASE LETTERS INDICATE SWITCHING. UNLESS OTHERWISE NOTED, PROVIDE 0-10VDC. COORDINATE & PROVIDE ANY ADDITIONAL WIRING REQUIREMENTS.
	LOW VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.
	WALL MOUNTED OCCUPANCY SENSOR (AUTO ON, AUTO OFF) TYPE SWITCH.
	LOW VOLTAGE CORNER MOUNTED OCCUPANCY SENSOR WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER.
	LOW VOLTAGE CEILING MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING & 360° VIEW CAPABILITY. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.
	WALL MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) TYPE SWITCH.
	LOW VOLTAGE CORNER MOUNTED VACANCY SENSOR (MANUAL ON, AUTO OFF) WITH DUAL TECHNOLOGY SENSING. PROVIDE COMPLETE WITH ALL REQUIRED RELAYS, LOW VOLTAGE SWITCHING & WIRING AS REQUIRED BY SELECTED EQUIPMENT MANUFACTURER. REPLACE EXISTING WALL SWITCHES WITH LOW VOLTAGE (MOMENTARY CONTACT TYPE) & MODIFY EXISTING WIRING AS REQUIRED.
	DAYLIGHT HARVESTING PHOTOCELL. PROVIDE COMPLETE WITH ALL REQUIRED MOUNTING HARDWARE & INTERCONNECTION TO CONTROLLER AS SPECIFIED. LOCATE IN ROOM PER MANUFACTURERS REQUIREMENTS.
	LUMINAIRE MOUNTING HEIGHT TAG. INDICATES THE HEIGHT THAT THE BOTTOM OF LUMINAIRE SHALL BE INSTALLED IN THE ASSOCIATED ROOM.
	TYPICAL SITE LUMINAIRE (EXACT SYMBOL MAY VARY). SHALL INCLUDE LUMINAIRE HEAD, POLE, & CONCRETE BASE. REFER TO LUMINAIRE SCHEDULE & SITE LIGHTING PLAN FOR ADDITIONAL INFORMATION.
	EMERGENCY LUMINAIRE UNIT, SHALL BE WITH BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODES.
	EXIT SIGN (LED TYPE), SHALL PROVIDED WITH INTEGRAL BATTERY BACKUP. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION. VERIFY SHEVRON DIRECTION IN FIELD, PROVIDE AS REQUIRED. BATTERY CAPACITY SHALL MEET OR EXCEED MINIMUM OPERATION TIME REQUIRED BY CODE.
TYPICAL LUMINAIRE NOTATION	
LUMINAIRE TYPE	SWITCH LEG
142 a.13	BRANCH CIRCUIT
EMNL	EMERGENCY AND/OR NIGHTLIGHT

GENERAL NOTES: (FOR ALL DRAWINGS)

- A. THE DRAWINGS ARE DIAGRAMMATIC & INDICATE GENERALLY THE LOCATIONS OF THE MATERIAL & EQUIPMENT. THESE DRAWINGS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE.
- B. MINOR DETAILS NOT USUALLY SHOWN OR SPECIFIED, BUT NECESSARY FOR PROPER INSTALLATION & OPERATION, SHALL BE INCLUDED IN THE CONTRACTOR'S BID, THE SAME AS IF HEREIN SPECIFIED OR SHOWN.
- C. ALL MATERIAL & INSTALLATION SHALL BE IN ACCORDANCE WITH LATEST EDITION OF THE NATIONAL ELECTRIC CODE, LATEST EDITION OF LOCAL CODES, & ORDINANCES.
- D. ALL CONDUITS ON EXPOSED WORK SHALL BE RUN AT RIGHT ANGLES TO, & PARALLEL WITH, THE SURROUNDING WALL & SHALL CONFORM TO THE FORM OF THE CEILING. DIAGONAL RUNS WILL NOT BE ALLOWED. BENDS IN PARALLEL CONDUIT RUNS SHALL BE CONCENTRIC. ALL CONDUIT SHALL RUN PERFECTLY STRAIGHT & TRUE.
- E. ALL CONDUIT RUNS ARE TO BE CONCEALED IN WALLS, CEILINGS, OR IN THE SLAB. CONTRACTOR SHALL COORDINATE CONDUIT INSTALLATION DURING BUILDING CONSTRUCTION WITH OTHER TRADES. RUN SURFACE RACEWAY ONLY WHERE CALLED FOR OR SHOWN ON THE DRAWINGS. EXPOSED CONDUIT SHALL ONLY BE INSTALLED WHERE MEANS OF CONCEALING DOES NOT EXIST. CONTRACTOR IS TO NOTIFY ENGINEER & GET OWNERS APPROVAL PRIOR TO RUNNING EXPOSED CONDUITS.
- F. INTERIOR RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN EMT CONDUIT. A MAXIMUM OF (3) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE SEPARATE NEUTRAL. GROUPING OF NEUTRALS SHALL NOT BE ACCEPTABLE. EACH CIRCUIT SHALL ALSO HAVE A GROUND WIRE SIZED PER NEC. USING CONDUIT, OR MC CABLE AS GROUND PATH SHALL NOT BE ACCEPTABLE. CABLE MUST BE SUPPORTED PER NEC. GROUPING OF GROUND WIRES ((1) GROUND PER (3) CIRCUITS) IS ACCEPTABLE. MAXIMUM 6' LENGTH OF MC CABLE ALLOWED FOR A WHIP CONNECTION TO LUMINAIRE ONLY. EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN RMC CONDUIT OR AS PERMITTED IN THE SPECIFICATIONS.
- G. COORDINATE ALL LUMINAIRE & CEILING MOUNTED EQUIPMENT LOCATIONS & MOUNTING HARDWARE WITH ARCHITECTURAL CEILING PLANS PRIOR TO CONSTRUCTION.
- H. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED COSTS FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.
- I. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.
- J. ALL RECEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.
- K. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTACLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. LABELS SHALL BE PHENALIC TYPE WITH BLACK BACKGROUND & WHITE ENGRAVED LETTERING. LABEL SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT ID NAME.

ABBREVIATIONS:

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WG	INDICATES DEVICE SHALL HAVE WIRE GUARD PROTECTION
AFB	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
(ETR)	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
OC	OVER COUNTER (INSTALL 12" ABOVE COUNTER HEIGHT)
UC	UNDER COUNTER (INSTALL 18" ABOVE FINISHED FLOOR)
VNAC	VISUAL NOTIFICATION APPLIANCE CIRCUIT
ANAC	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SLC	SIGNALING LINE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
HP	HORSEPOWER
KW	KILOWATT
KVA	KILOVOLT-AMPERES
VFD	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY
NL	NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON' ALL THE TIME)
LTG	LIGHTING
CPWR	CONTINUOUS LOAD (POWER)
PWR	POWER
EHR	ELECTRIC HEAT
KIT	KITCHEN EQUIPMENT
LMTR	LARGEST MOTOR
EQP	SHOP EQUIPMENT
NEC	NATIONAL ELECTRICAL CODE
MLO	MAIN LUGS ONLY
MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAGE

BRANCH CIRCUIT WIRING NOTES:

- A. UNLESS OTHERWISE NOTED, MINIMUM HOMERUN (HOMERUN SHALL BE CONSIDERED TOTAL LENGTH FROM SOURCE TO LAST DEVICE ON THE CIRCUIT) CONDUCTORS FOR 20A/1P BRANCH CIRCUITS INCLUDING LIGHTING SHALL BE AS FOLLOWS:
- 1-100FT - #12 AWG
 - 101-150FT - #10 AWG
 - 151-250FT - #8 AWG
 - 251-400FT - #6 AWG
 - 401 & LONGER - #4 AWG.
- REDUCE CONDUCTORS SIZE TO A MAXIMUM CONDUCTOR SIZE THAT THE LOAD TERMINALS CAN ACCOMMODATE. REDUCED SIZE NOT LONGER THAN ONE FOOT. INCREASE RACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF CONDUCTORS.

REMOVAL (TYPICAL FOR ALL DEVICES):

	TYPICAL POWER & SYSTEMS DEVICE SCHEDULED FOR REMOVAL. DISCONNECT & REMOVE ALL ASSOCIATED ELECTRICAL WORK AS INDICATED ON CONTRACT DOCUMENTS. REINSTALL AS REQUIRED
	TYPICAL LUMINAIRE SCHEDULED FOR REMOVAL. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
REMOVAL NOTES: NOT ALL DEVICES SCHEDULED FOR REMOVAL ARE SHOWN ON THIS SCHEDULE. ALL DEVICES TO BE REMOVED ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO DEMOLITION PLANS FOR ADDITIONAL INFORMATION.	

EXISTING TO REMAIN (TYPICAL FOR ALL DEVICES):

	TYPICAL POWER & SYSTEMS DEVICE EXISTING TO REMAIN IN PLACE.
	EXISTING LUMINAIRE SCHEDULED TO REMAIN IN PLACE. REFER TO LUMINAIRE SCHEDULE FOR ADDITIONAL INFORMATION.
EXISTING TO REMAIN NOTES: NOT ALL EXISTING DEVICES SCHEDULED TO REMAIN ARE SHOWN ON THIS SCHEDULE. ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINE WEIGHT AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.	

GENERAL SYMBOLS NOTE:

THIS SYMBOLS & ABBREVIATIONS SCHEDULE IS FOR THE ELECTRICAL CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS SCHEDULE DOES NOT IMPLY INCLUSION AND / OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.



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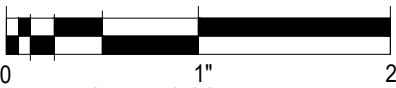


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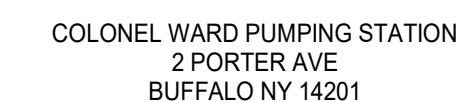
ELECTRICAL
SYMBOLS, ABBREVIATIONS,
GENERAL NOTES



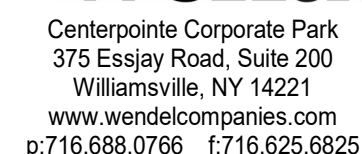
GENERIC SCALE BAR
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DATE	09-08-2026
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PROJ. No.	462806
DWG. No.	

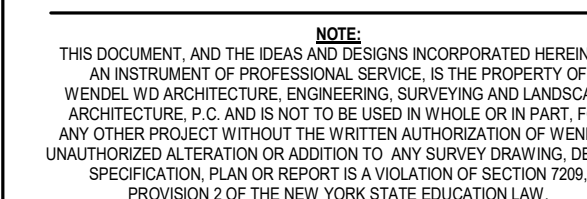
E001



STONE STORAGE BUILDING AND BOILER HOUSE RENOVATION



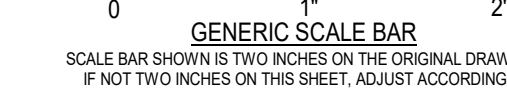
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ELECTRICAL OVERALL PLAN



DATE 09-08-2026

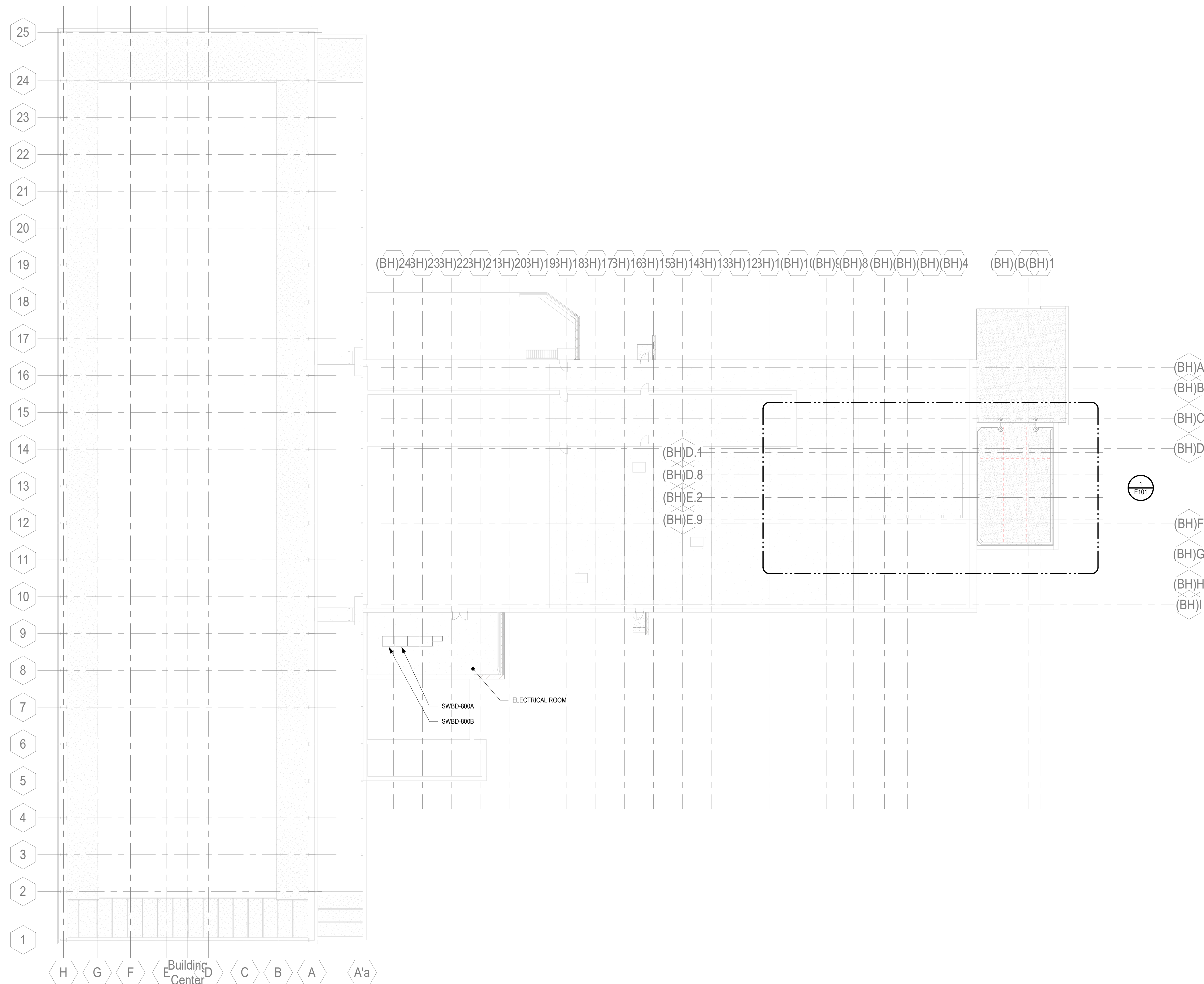
SCALE 1" = 20'-0"

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PROJ. No.	462806
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DWG. No.

E100



1 ELECTRICAL PLAN - OVERALL

SCALE: 1" = 20'-0"

MAINTAIN INTEGRITY OF EXISTING CIRCUIT WIRING PRESENTLY INSTALLED AND SERVING EQUIPMENT OUTSIDE THE WORK AREA. VERIFY ROUTE OF EACH FEEDER AND BRANCH CIRCUIT SCHEDULED FOR REMOVAL.

PROVIDE PROTECTION FOR ALL EXISTING ELECTRICAL SYSTEMS/EQUIPMENT SCHEDULED TO REMAIN DURING CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACEMENT OR RECONDITIONING OF EQUIPMENT/ITEMS DAMAGED DURING REMOVALS AND CONSTRUCTION.

FIRE ALARM AND SECURITY SYSTEMS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION. PROVIDE TEMPORARY WIRING AS REQUIRED TO MAINTAIN FIRE ALARM SYSTEM DETECTION/NOTIFICATION THROUGHOUT CONSTRUCTION PHASE AND OPERATION OF SECURITY SYSTEM. NOTIFY OWNER OF AREAS TO BE SHUTDOWN WHILE WORK IS BEING PERFORMED. FIRE ALARM AND SECURITY SYSTEMS SHALL BE FULLY OPERATIONAL AT END OF EACH WORK DAY. CONTRACTOR SHALL NOT LEAVE ANY AREAS WITHOUT FIRE ALARM SYSTEM BEING FULLY FUNCTIONAL AND SECURITY SYSTEM FULLY OPERATIONAL.

UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ELECTRICAL WORK ASSOCIATED WITH DEVICE/FIXTURE SCHEDULED FOR REMOVAL. ASSOCIATED ELECTRICAL WORK SHALL INCLUDE BUT NOT LIMITED TO CONDUCTORS, CONDUIT, BOXES, CONNECTORS, HANGERS, CONTROL EQUIPMENT, ETC. BACK TO SOURCE PANEL.

CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ELECTRICAL DEVICES AND MISC. ITEMS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR ANY COST ASSOCIATED WITH DISPOSAL.

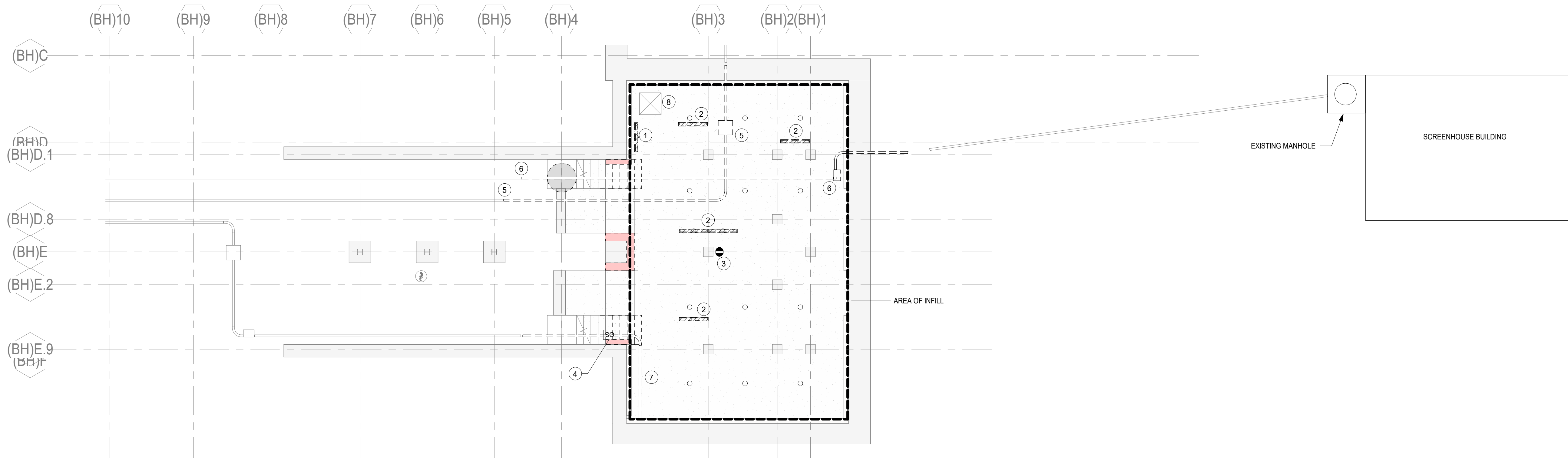
DEMOLITION SHOWN SHALL BE SELECTIVE. UNLESS OTHERWISE INDICATED ON THE PLAN, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES FOUND IN THE FIELD PRIOR TO DEMOLITION OF ANY ITEMS NOT SHOWN. CONTRACTOR SHALL, AT HIS EXPENSE, REPLACE OR REPAIR ANY DEMOLISHED ITEM(S) THAT WERE NOT CALLED FOR ON THE PLANS OR BROUGHT TO THE ENGINEER'S ATTENTION.

1. DISCONNECT AND REMOVE EXISTING SURFACE MOUNTED LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
2. DISCONNECT AND REMOVE EXISTING PENDANT MOUNTED LIGHT FIXTURE AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
3. DISCONNECT AND REMOVE EXISTING RECEPTACLE AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
4. DISCONNECT AND REMOVE EXISTING WALL MOUNTED OCCUPANCY SENSOR AND ALL ASSOCIATED CONDUIT AND WIRE BACK TO SOURCE.
5. DISCONNECT AND REMOVE THE SECTION OF CONDUIT INCLUDING CONDUCTORS THAT FEEDS THE GAS HOUSE WITHIN THE STONE STORAGE BASEMENT AREA. CUT AND CAP GAS HOUSE CONDUIT OUTSIDE OF PROJECT AREA TO ALLOW FOR INFILL OF STONE STORAGE BASEMENT. REFER TO NEW WORK PLAN 21E101 FOR REROUTING OF GAS HOUSE CONDUIT AND NEW CONDUCTORS.
6. DISCONNECT AND REMOVE THE SECTION OF CONDUIT INCLUDING CONDUCTORS THAT FEEDS THE SCREENING HOUSE WITHIN THE STONE STORAGE BASEMENT AREA. CUT AND CAP SCREENING HOUSE CONDUIT OUTSIDE OF PROJECT AREA TO ALLOW FOR INFILL OF STONE STORAGE BASEMENT. REFER TO NEW WORK PLAN 21E101 FOR REROUTING OF SCREENING HOUSE CONDUIT AND NEW CONDUCTORS.
7. DISCONNECT AND REMOVE EXISTING CONDUIT WITHIN STONE STORAGE BASEMENT AREA TO ALLOW FOR INFILL OF STONE STORAGE BASEMENT.
8. DISCONNECT AND REMOVE EXISTING CONDUIT, WIRE AND OTHER ASSOCIATED APPURTENANCES FOR SUMP PUMP IN LOCATION INDICATED.

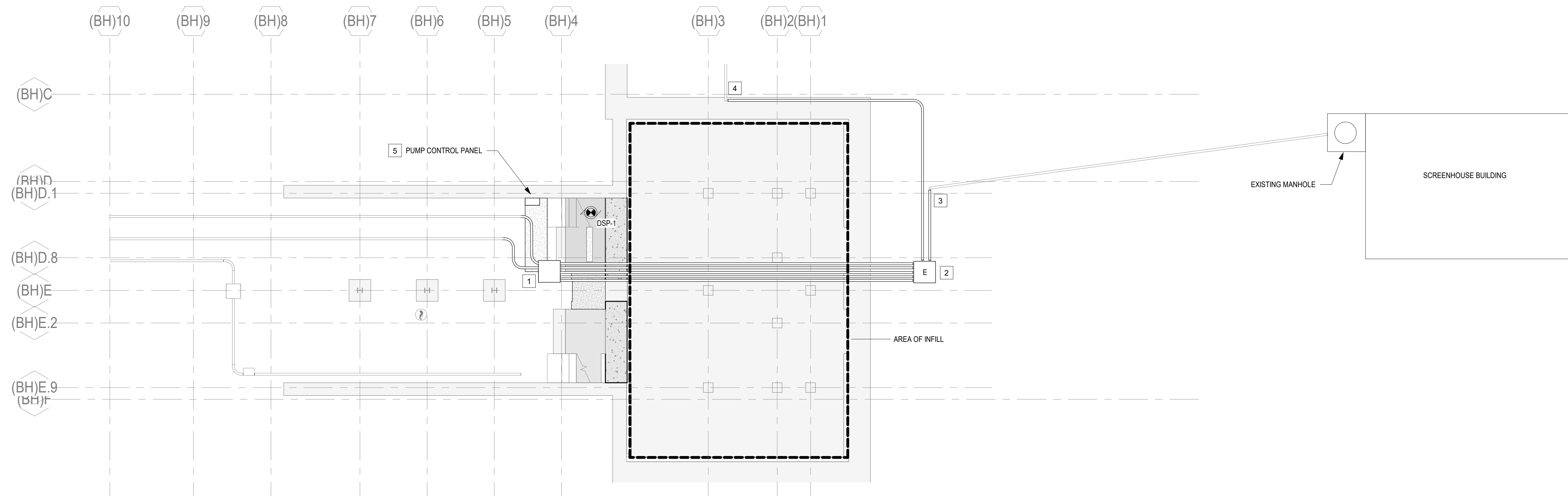
A. REFER TO DRAWING E600 FOR PANELBOARD SCHEDULES.

B. REFER TO DRAWING E600 FOR MECHANICAL EQUIPMENT CONNECTION SCHEDULES.

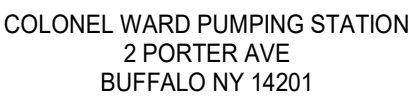
1. EXTEND GAS HOUSE AND SCREENING HOUSE CONDUITS FROM POINT OF CAPPING TO NEW JUNCTION BOX AT LOCATION INDICATED.
2. EXTEND GAS HOUSE CONDUIT, SCREENING HOUSE CONDUIT, AND (3) SPARE 4" SCHEDULE 40 PVC CONDUITS THROUGH STONE STORAGE BASEMENT AREA TO NEW ELECTRICAL MANHOLE OUTSIDE OF BASEMENT AREA.
3. PROVIDE NEW CONDUIT AND CONDUCTORS FROM NEW ELECTRICAL MANHOLE TO REESTABLISH CONNECTION TO SCREENING HOUSE. REUSE THE PARTIAL SECTION OF EXISTING CONDUIT WHERE POSSIBLE. NEW CONDUIT ADDED OUTSIDE OF STONE STORAGE BASEMENT TO BE BURIED AT A MINIMUM OF 2'-0" BELOW GRADE.
4. PROVIDE NEW CONDUIT AND CONDUCTORS FROM NEW ELECTRICAL MANHOLE TO REESTABLISH CONNECTION TO GAS HOUSE. REUSE THE PARTIAL SECTION OF EXISTING CONDUIT WHERE POSSIBLE. NEW CONDUIT ADDED OUTSIDE OF STONE STORAGE BASEMENT TO BE BURIED AT A MINIMUM OF 2'-0" BELOW GRADE.
5. PUMP CONTROL PANEL AND SUMP PUMP DSP-1 TO BE FED FROM SWBD-800B IN ELECTRICAL ROOM. POWER IS TO BE BROUGHT TO THE CONTROL PANEL, WHICH IN TURN POWERS THE ASSOCIATED SUMP PUMP. REFER TO DRAWING E100 FOR ELECTRICAL ROOM LOCATION. REFER TO E600 FOR SUMP PUMP FLOOR SIZING.



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



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



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ELECTRICAL BASEMENT LEVEL PLANS



GENERIC SCALE BAR
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IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY

DATE 09-08-2026

SCALE	As indicated
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DWN	IDM	CHK	RS
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PROJ. No. 462806

DWG. No.

E101

MECHANICAL EQUIPMENT CONNECTION SCHEDULE

EQUIPMENT								POWER SUPPLY					CONTROL DEVICES														
ITEM DESIGNATION	EQUIPMENT NAME	ROOM/LOCATION	HP	KW	AMPS	PHASE	VOLTAGE	SOURCE	CIRCUIT BREAKER	CONDUCTOR SIZE (AWG) COPPER	GROUND SIZE (AWG) COPPER	RACEWAY SIZE	DISCONNECT SWITCH			STARTER NEMA SIZE	COMBINATION FVAR MOTOR STARTER/DISCONNECT SWITCH	FRACTIONAL HP DISCONNECT SWITCH	DISCONNECT SWITCH AT UNIT (SUPPLIED BY OTHERS)	PACKAGED CONTROL UNIT (SUPPLIED BY OTHERS)	THERMOSTAT CONNECTION (LINE VOLTAGE)	VARIABLE FREQUENCY DRIVE (PROVIDED BY OTHERS)	DUCT DETECTOR WITH TEST STATION		FIRE ALARM FAN SHUTDOWN		NOTES
													SWITCH AMPS	FUSE AMPS	LOCATION								RETURN	SUPPLY	RETURN	SUPPLY	
DSP-1	DUPLEX SUMP PUMP CONTROL PANEL	STONE STORAGE BASEMENT	1.0		4.50	3	480	SWBD-800B/1,3,5	20A/3P	{3} #10	#10	1"							X								

EXISTING PANELBOARD SCHEDULE

PANELBOARD		VOLTS: 480 Y/277 3Ø 4-WIRE BUS CAPACITY: 800 A AIC: 42kA MCB: 800 A MTG: SURFACE MLO: 800 A ENCL: NEMA 1										ELECTRICAL ROOM
SWBD-800A												LOCATION
NAME												LOCATION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1					180			180				2
3		ATS LP-EM-GR				0				SPARE		4
5							0					6
7					0							8
9		PP-BRE				0				CENTRIFUGE		10
11							0					12
13					0					CENTRIFUGE		14
15		PP-1A				0						16
17							0					18
19					0							20
21		PP-1A					0			MLPNL1		22
23								0				24
25					0							26
27	225A	SCREEN HOUSE				0				PP-PR1		28
29							0					30
31					0							32
33		PP-512				0				PP-511		34
35							0					36
37					0							38
39		DP-2				0				125VDC BATTERY CHARGER		40
41							0					42

EXISTING PANELBOARD SCHEDULE

PANELBOARD		VOLTS: 480 V 3Ø 4-WIRE MIN. BUS CAPACITY: 800 A AIC: 42k A MCB: 800 A MTG. SURFACE ENCL: NEMA 1										ELECTRICAL ROOM	
SWBD-800B												LOCATION	
No.	BKR	NAME	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1					1246	1246							2
3	20A		DSP-1		1246		1246				SPARE		4
5					1246			1246					6
7						0							8
9			SPACE				0				N.W. VALVEHOUSE DEWATERING PUMP		10
11								0					12
13						0							14
15			SPACE				0				R2D2 DEWATERING PUMP		16
17								0					18
19						0							20
21			PP-PR2				0				LP-BRW		22
23								0					24
25						0							26
27			SPACE				0				LP-CR		28
29								0					30
31						0							32
33			SPACE				0				SPARE		34
35								0					36
37						0							38
39			SPACE				0				SPARE		40
41								0					42
43						0							44
45			SPACE				0				25 TON CRANE		46
47								0					48
49						0							50
51			HLP-R1				0				HP-HGS GAS HOUSE	70A	52
53								0					54
55						0							56
57			PP-BR1				0				P-GEN2		58
59								0					60
61						0							62
63			PP-BR2				0				P-GEN1		64
65								0					66
67						0							68
69			SPACE				0				SPARE		70
71								0					72
73						0							74
75			SPACE				0				LP-GRE		76
77								0					78
79						0							80
81			SPACE				0				LP-PR12		82
83								0					84

*BOLD TEXT INDICATES NEW CIRCUIT BREAKER, NON-BOLD TEXT INDICATES EXISTING CIRCUIT BREAKER.



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ELECTRICAL SCHEDULES

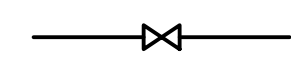
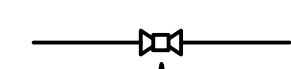
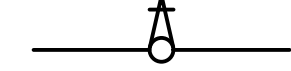
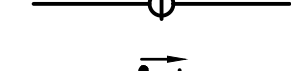
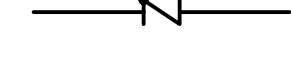


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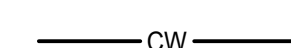
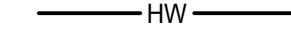
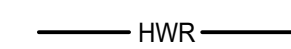
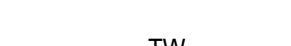
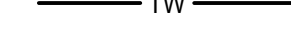
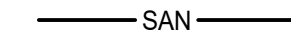
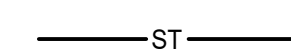
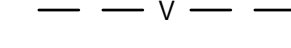
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PROJ. No.	462806		
DWG. No.			

E600

PLUMBING SYMBOLS - VALVES AND SPECIALTIES

	SHUT-OFF VALVE (GATE, BALL, ETC.)
	BALANCING VALVE
	SHUT-OFF VALVE IN RISER
	MEDIUM PRESSURE REULATOR
	GAS COCK
	CHECK VALVE
	STRAINER

PLUMBING SYMBOLS - PIPING DESIGNATIONS

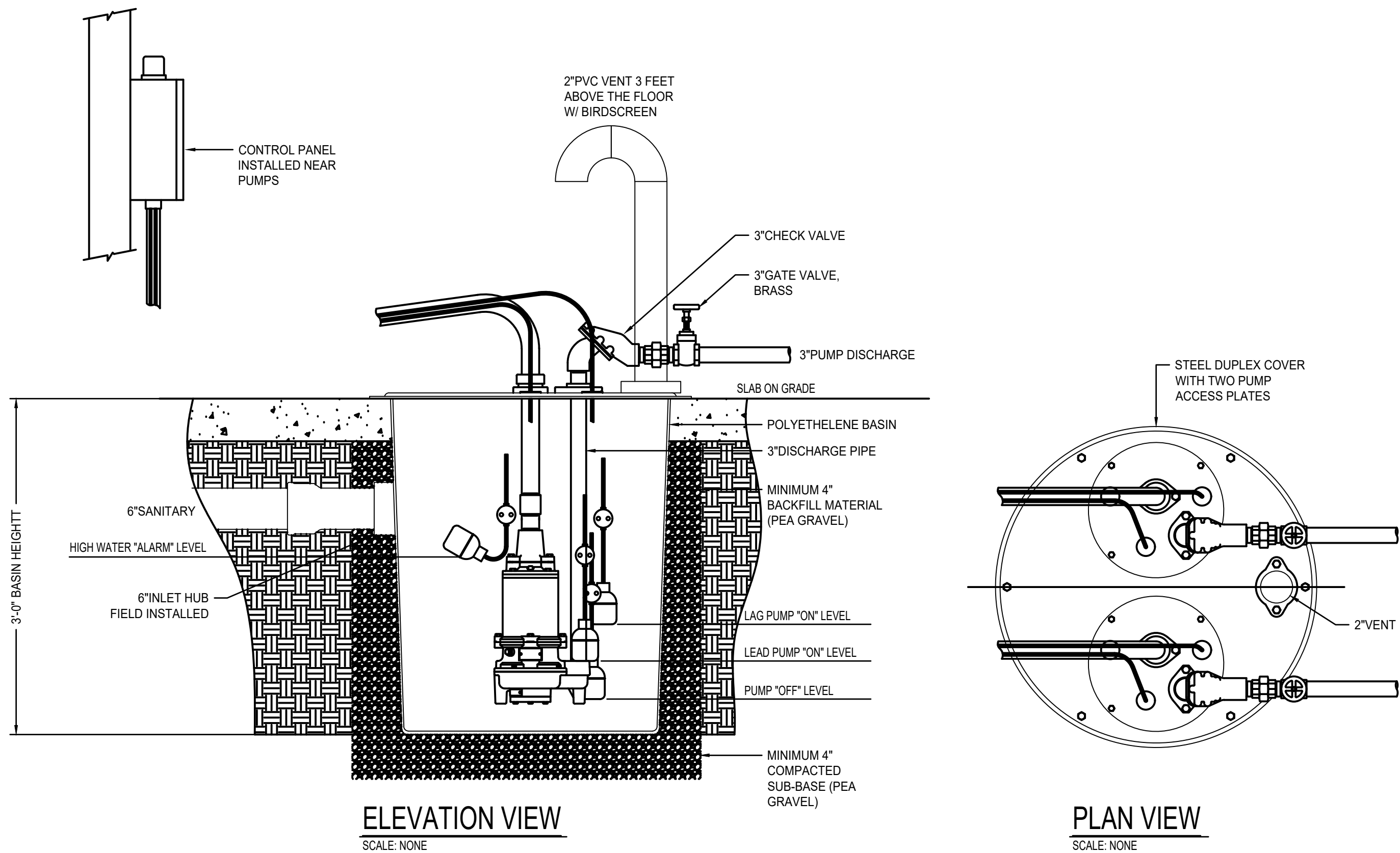
	CW	COLD WATER
	HW	HOT WATER
	HWR	HOT WATER RETURN
	TW	TEMPERED WATER
	SAN	SANITARY SEWER
	ST	STORM SEWER
	V	VENT
	ST	STORM SEWER
	PD	PUMPED DISCHARGE
	GAS	NATURAL GAS

GENERAL NOTES

- THIS LEGEND SHEET IS FOR CONTRACTOR REFERENCE ONLY. NOT ALL SYMBOLS AND/OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS LEGEND SHEET DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.
- THE PLANS ARE DIAGRAMMATIC AND INDICATE ONLY THE SIZE AND GENERAL ARRANGEMENT OF PIPING AND EQUIPMENT. EXACT LOCATION OF ALL ELEMENTS SHALL BE DETERMINED AS WORK PROGRESSES, IN COOPERATION AND COORDINATION WITH THE WORK OF ALL OTHER TRADES. IT IS NOT INTENDED TO SHOW EVERY ITEM OF WORK OR MINOR PIECE OF EQUIPMENT, BUT THE CONTRACTOR SHALL FURNISH AND INSTALL WITHOUT ADDITIONAL REMUNERATION ANY COMPONENT NECESSARY TO COMPLETE THE SYSTEM IN ACCORDANCE WITH THE BEST PRACTICE OF THE TRADE.
- ITEMS OF WORK OR EQUIPMENT SHOWN ON THE DRAWINGS ONLY, OR CALLED FOR IN THE SPECIFICATIONS ONLY, SHALL BE FURNISHED AND INSTALLED IN THE SAME MANNER AS IF THEY APPEARED ON BOTH THE DRAWINGS AND SPECIFICATIONS.
- DRAWINGS DO NOT INDICATE ALL OFFSETS, CHANGES IN ELEVATIONS, ETC. WHICH MAY BE REQUIRED. THE CONTRACTOR SHALL MAKE SUCH CHANGES IN PIPING AND LOCATION OF EQUIPMENT, ETC. TO ACCOMMODATE WORK WITH THAT OF OTHER CONTRACTORS.
- PERFORM ALL WORK IN COMPLETE ACCORDANCE WITH THE 2020 NEW YORK PLUMBING CODE, THE 2020 NEW YORK BUILDING CODE, 2020 NEW YORK ENERGY CONSERVATION CONSTRUCTION CODE, 2020 NEW YORK FIRE CODE, AND THE 2020 NEW YORK MECHANICAL CODE.

TRENCH DRAIN SCHEDULE				
FIXTURE NO.	DESCRIPTION	MANUFACTURER & MODEL	ACCESSORIES	NOTES
TD-1	TRENCH DRAIN, 6-3/4" WIDE REVEAL WITH HEAVY DUTY FRAME ASSEMBLY, PRE-SLOPED POLYETHYLENE MODULAR SECTIONS	ZURN Z886-HD-CBF-BDC	REBAR CLIPS, BLACK ACID RESISTANT EPOXY COATED FRAME AND DUCTILE GRATE CLASS C, NO-HUB END OUTLET, END CAP	CATCH BASIN CB-1 ZURN Z886-12. REFER TO STRUCTURAL PLANS

DUPLEX SUMP PUMP (DSP)												
EQUIP. NO.	SERVICE	CAPACITY (GPM)	DISCHARGE SIZE (INCH)	TOTAL HEAD (FT)	HP	RPM	ELECTRICAL DATA				MANUFACTURER AND MODEL	NOTES
							VOLTS	PHASE	HERTZ	AMPS		
DSP-1	BASEMENT	160	3" FLANGED	25	1	3450	480	3	60	4.5	LIBERTY PUMP LEH104M3-2	SEE BELOW
NOTES: 1. PROVIDE DUPLEX CONTROL PANEL LIBERTY AE21L=3. 2. CONTROL PANEL TO BE LOCATED IN BASEMENT NEAR PUMPS. 3. PROVIDE PUMPS WITH 25' CORD. 4. PROVIDE 48"x3'-0" DEEP FIBERGLASS BASIN TO BE INSTALLED RECESSED IN THE FLOOR. 5. PROVIDE GUIDE RAIL SYSTEM. 6. INSTALL PER MANUFACTURERS INSTRUCTIONS.												



1 DUPLEX SUMP PUMP DETAIL
SCALE: NONE



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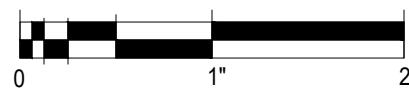
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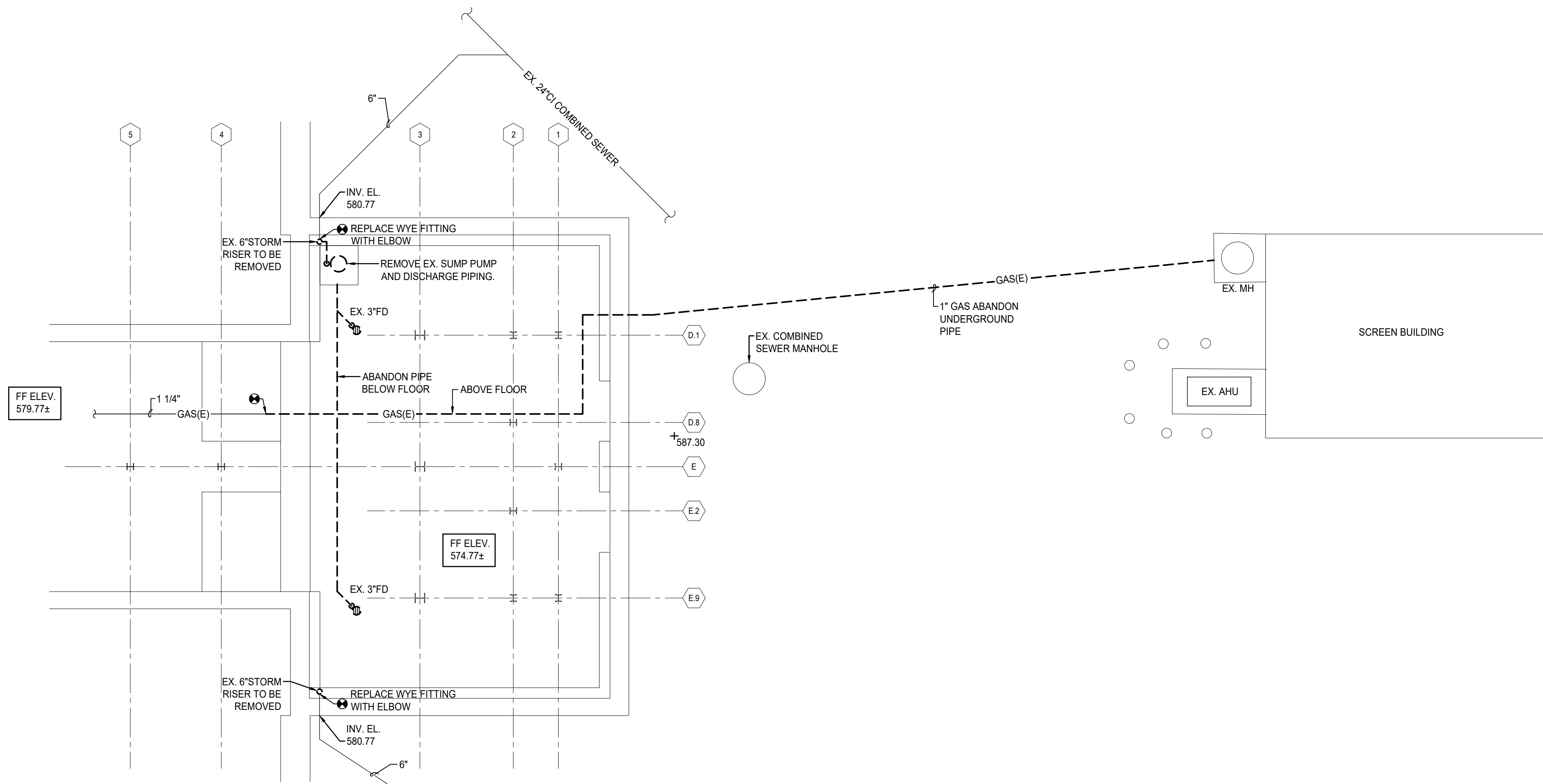
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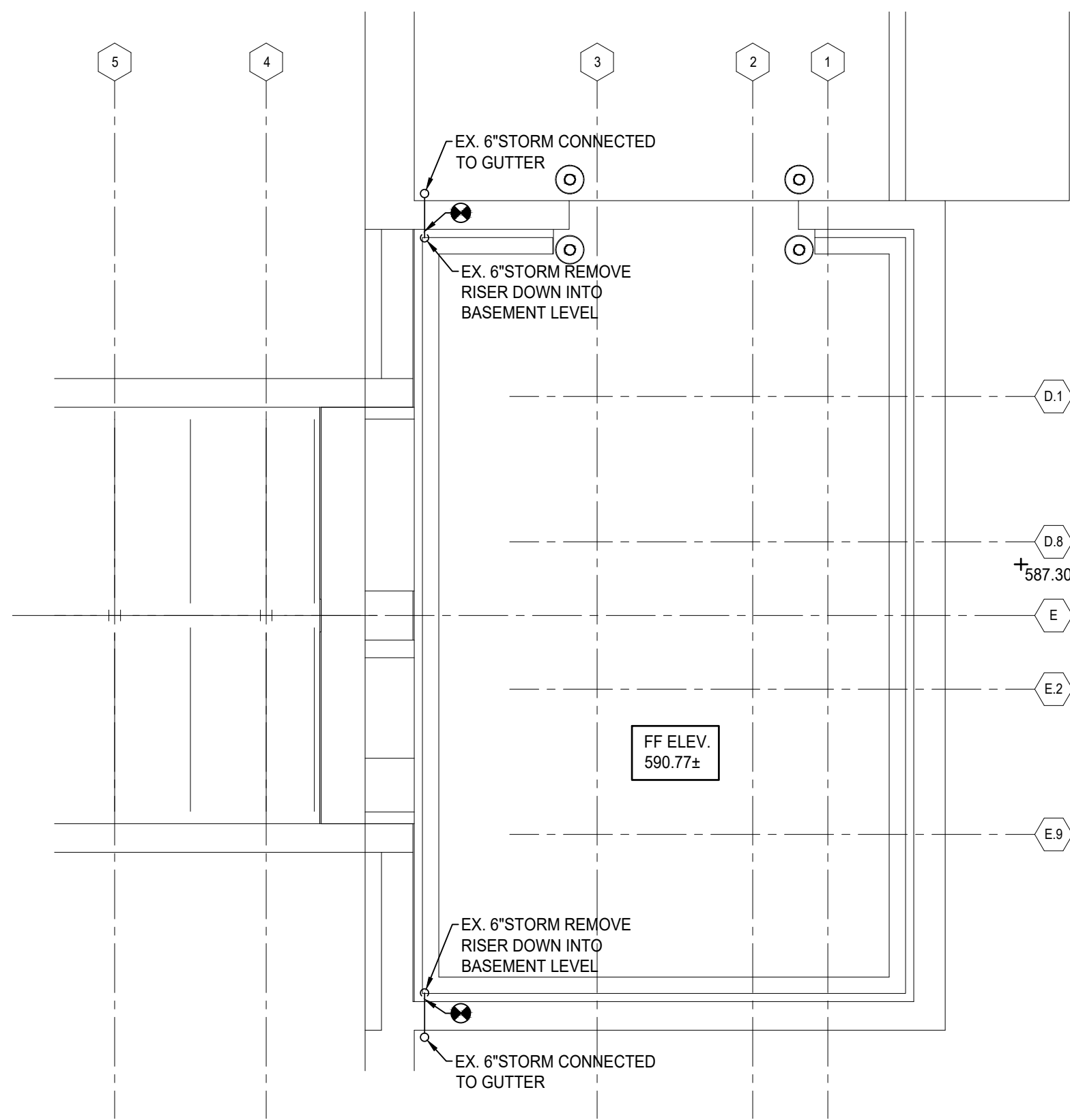
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CHK	JTW
PROJ. No.	462806
DWG. No.	

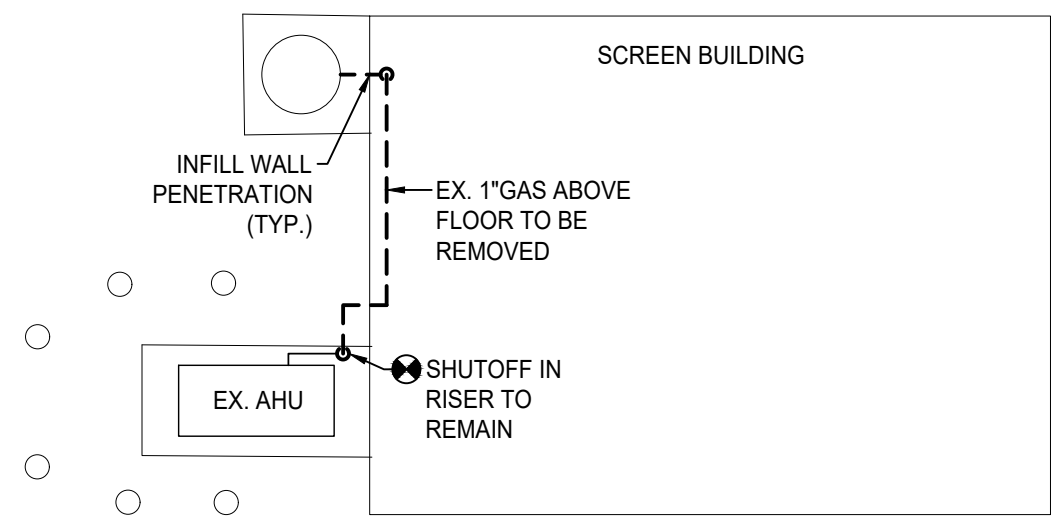
P001



① BASEMENT DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



② STONE STORAGE GROUND FLOOR DEMOLITION PLAN
SCALE: 1/8" = 1'-0"



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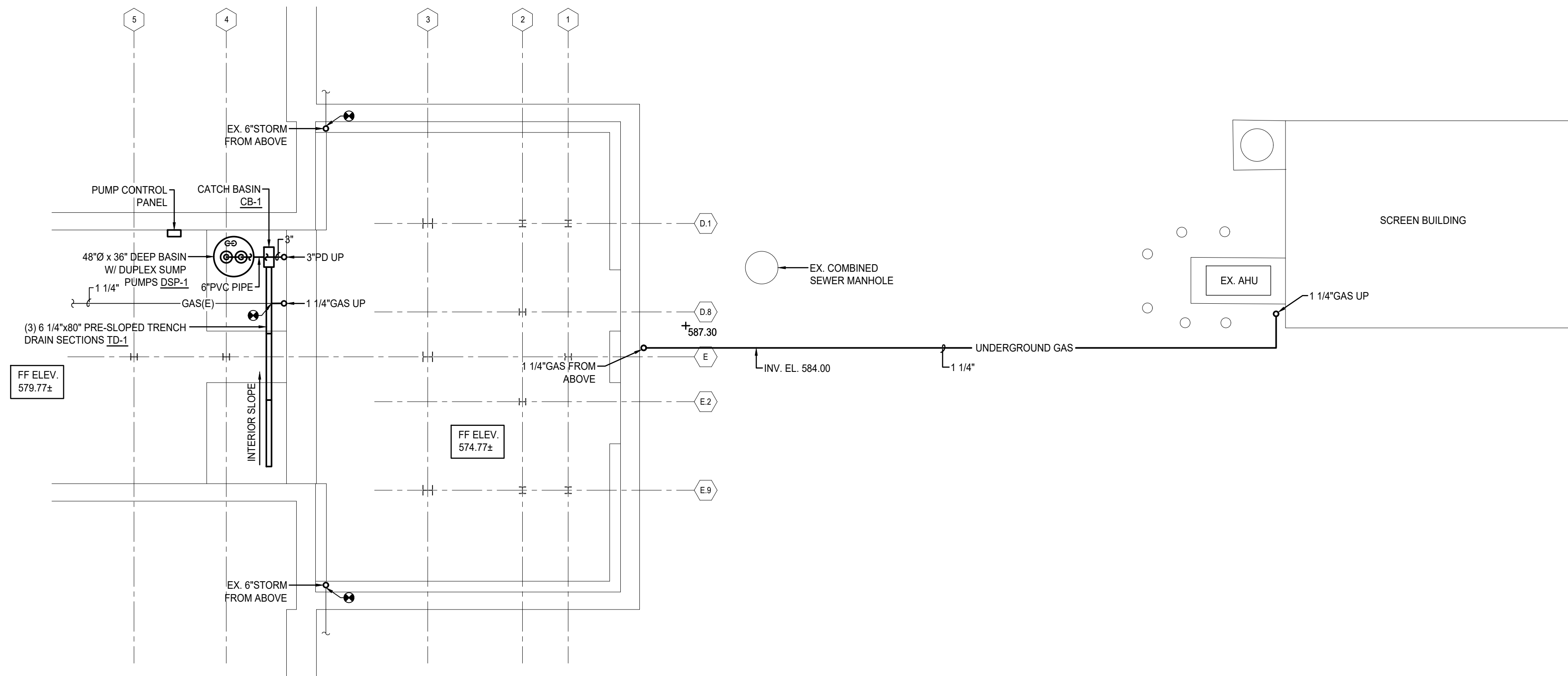
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PLUMBING DEMOLITION PLANS

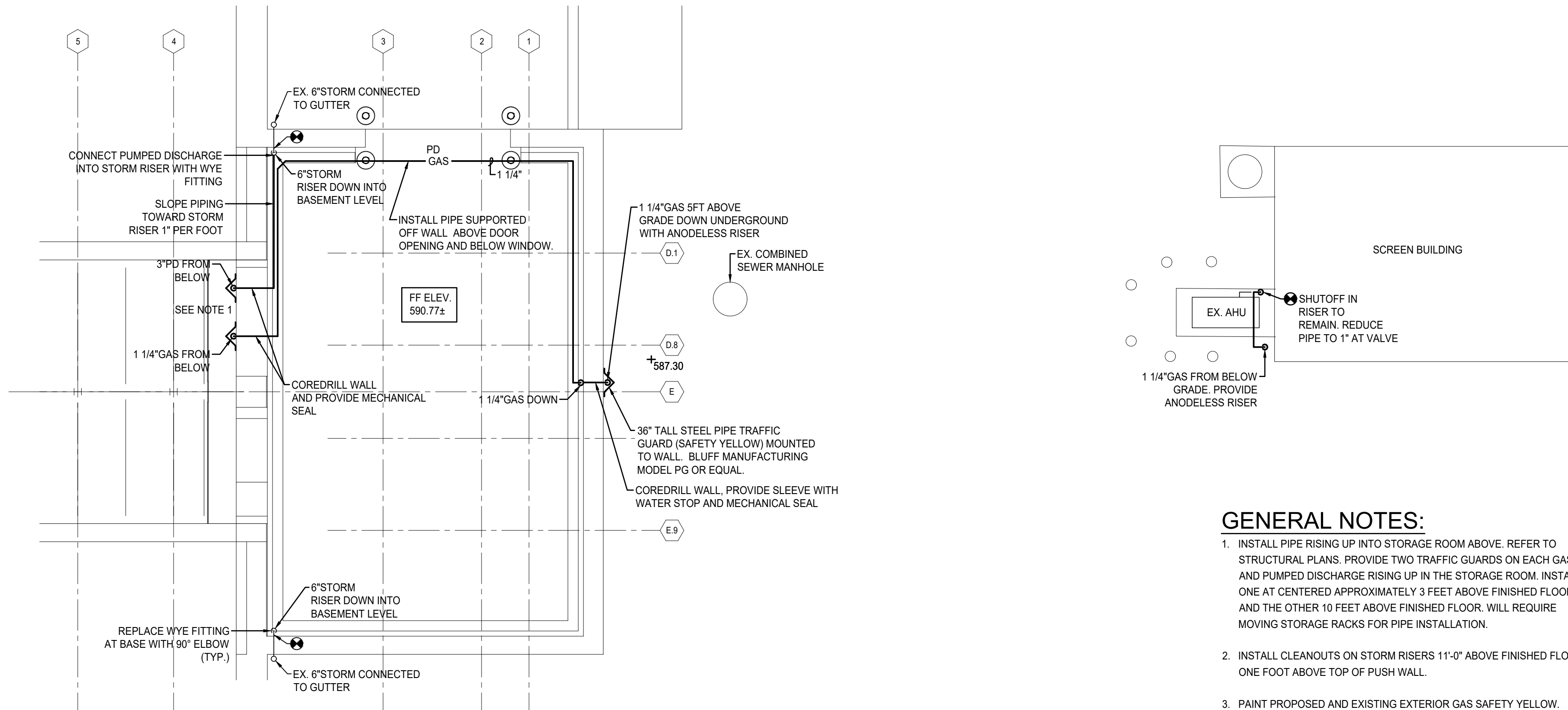
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CHK	JTW
PROJ. No.	462806
DWG. No.	

PD101



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



2 STONE STORAGE GROUND FLOOR PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. INSTALL PIPE RISING UP INTO STORAGE ROOM ABOVE. REFER TO STRUCTURAL PLANS. PROVIDE TWO TRAFFIC GUARDS ON EACH GAS AND PUMPED DISCHARGE RISING UP IN THE STORAGE ROOM. INSTALL ONE AT CENTERED APPROXIMATELY 3 FEET ABOVE FINISHED FLOOR AND THE OTHER 10 FEET ABOVE FINISHED FLOOR. WILL REQUIRE MOVING STORAGE RACKS FOR PIPE INSTALLATION.
2. INSTALL CLEANOUTS ON STORM RISERS 11'-0" ABOVE FINISHED FLOOR. ONE FOOT ABOVE TOP OF PUSH WALL.
3. PAINT PROPOSED AND EXISTING EXTERIOR GAS SAFETY YELLOW.



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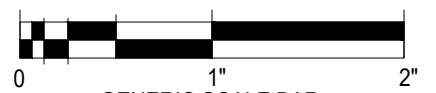
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PLUMBING PLANS



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CHK: JTW
PROJ. No. 462806
DWG. No.

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