



UMASS TRANSIT FACILITY
185 HOLDSWORTH, AMHERST, MA 01003
HYDRAULIC LIFT REPLACEMENT

CONSTRUCTION DOCUMENTS
03-13-2026

PROJECT
LOCATION



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Wendel Project No. 448715



A.F.F.	Above Finished Floor
ADDL.	Additional
ADH.	Adhesive
ADJ.	Adjustable
A.D.S.	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.S.	American Pyroclastic 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.N.P.A.	American Wood Preservers' Association
AB.	Anchor Bolt
APPROX.	Approximate
A.S.I.	Architect's Supplemental Instruction
AE.	Architect/Engineer
ARCH.	Architectural
ASPH.	Asphalt
AVG.	Average
B	
B/B	Back To Back
B.R.L.	Base Plate
BSP.	Bearing
B.R.G. P.	Bearing Plate
B.O.C.	Beginning of Curve
B.M.	Bench Mark
B.T.WN.	Between
BEV.	Bevel
BLK.	Block
BLKG.	Blocking
BOTT.	Bottom
BOTT.	Bottom Chord
B.	Bottom Of
B.F.	Braced Frame
C	
CANTIL.	Cantilever
C.	Cast Iron
C.I.P.	Cast-In-Place
C.B.	Catch Basin
C.G.S.	Ceiling
CTR.	Center
CL	Center / Column Line
CL	Cleanout
CLR.	Clear
C.F.M.F.	Cold-Formed Metal Framing
COL.	Column
C.J.C.	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
CONC.	Continuous
COORD.	Coordinate
COV.	Cover

D	
D.L.	Dead Load
DEMO.	Demonstration
DET.	Detail
DEV.	Development
DIA.	Diameter
DIM.	Dimension
DLB.	Double
DWL.	Dowel
DWG.	Drawing
D.P.	Drilled Pier
E	
EA.	Each
E.E.	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
FOUN.	Foundation
FRMG.	Framing
G	
GA.	Gage / Gauge
GAL.	Gallon
GALV.	Galvanized
G.C.	General Contractor
GLU LAM.	Glu Laminated Lumber
GLAM.	Glu Laminated Lumber
GB.	Grade Beam
GPR.	Ground Penetrating Radar
H	
HT.	Height
H.C.P.P.	Hollow Core Precast Plank
H.M.	Hollow Metal
HSS.	Hollow Structural Steel
HORIZ.	Horizontal

I	Inch
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	Line Load
L.R.F.D	Load and Resistance Factor Design
LOC.	Location
L.H.	Long Leg Horizontal
L.V.	Long Leg Vertical
S.H	Long Side Horizontal
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
Not Applicable	Not Applicable
N.I.C	Not In Conflict
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.W.M	Pavement
PERF	Perforated
PERP	Perpendicular
PL	Plate
PLAT	Platform
P.R.BS	P.R. Bolts
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.	Pound Per Cubic Foot
P.L.F.	Pounds Per Linear Foot
P.S.F.	Pounds Per Square Foot
P.S.I.	Pounds Per Square Inch
PRCST.	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
REQD	Required
REV.	Revision
RT.	Right
R.O.W.	Right Of Way
R.D.	Road Drain
R.H.	Roof Hatch
R.L.U.	Roof Top Unit
R.V.	Roof Vent
R.O.	Rough Opening

S	Sawcut Joint
SCHED	Schedule
SECT	Section
SHT	Sheet
SIM	Similar
S	South
SPFC	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 Joint Institute
STFF	Stiffener
STRUCT.	Structural
SURV	Survey
SYM.	Symmetrical
T	
TEMP	Temporary
THK	Thick / Thickness
T.B.D.	To Be Determined
T&B	Top and Bottom
TI	Top of
T/CONG	Top of Concrete
TI/FG	Top of Concrete Footing
T/FO	Top of Foundation
T/MAS	Top of Masonry
T/STEEL	Top of Steel
TI/WALL	Top of Wall
T	Tread
TYP	Typical
U	
UL	Underwriters Laboratories
U.N.O.	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
W.F	Wide Flange
w/	With
WD	Wood
W.P	Working Point

DESIGN CODE	
2021 INTERNATIONAL BUILDING CODE WITH MASSACHUSETTS AMENDMENTS	
2021 INTERNATIONAL EXISTING BUILDING CODE WITH MASSACHUSETTS AMENDMENTS	
BUILDING RISK CATEGORY	II
ALTERATION LEVEL	II
DEAD LOADS	
N/A	
LIVE LOADS	
MAINTENANCE VEHICLE SLAB ON GRADE AREAS	250 PSF
SNOW LOAD	
N/A	
WIND LOAD	
N/A	
SEISMIC LOAD	
N/A	

ALL WORK SHALL CONFORM TO THE LATEST EDITIONS OF THE STATE BUILDING CODE, THE STEEL BUILDING CODES (AISC 360, SDI, SJI, AISI), THE CONCRETE CONSTRUCTION CODE (ACI 318), THE MASONRY CONSTRUCTION CODE (ACI 530/TS 402), THE AMERICAN WELDED STEEL SOCIETY CODE (AWS D1.1), WOOD DESIGN CODE (NDS, TPI) AND ALL OTHER APPLICABLE STANDARDS. IN CASES OF CONFLICT, THE MOST RECENT STANDARD SHALL GOVERN.

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.

CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS PRIOR TO PREPARATION OF SHOP DRAWINGS.

REFER TO PROJECT SPECIFICATIONS FOR TESTING, INSPECTION, AND OTHER REQUIREMENTS.

A SPECIAL INSPECTION PROGRAM HAS BEEN DEVELOPED IN ACCORDANCE WITH BUILDING CODE REQUIREMENTS. REFER TO PROJECT SPECIFICATIONS FOR SPECIAL INSPECTION REQUIREMENTS AND NOTIFICATION PROCEDURES. THE SPECIAL INSPECTION PROGRAM SHALL BE THE RESPONSIBILITY OF THE OWNER. THE OWNER WILL EMPLOY SERVICES OF A SPECIAL INSPECTION AGENCY TO PERFORM INSPECTIONS AND ASSOCIATED TESTING AND SAMPLING IN ACCORDANCE WITH ASTM E2328 AND REQUIRED BY THE BUILDING CODE.

A SPECIAL INSPECTION AGENCY SHALL NOTE DEFICIENCIES NOT IN COMPLIANCE WITH THE CONTRACT DRAWINGS DURING CONSTRUCTION. NOTIFY THE CONTRACTOR, PROJECT ARCHITECT/ENGINEER, AND THE SPECIAL INSPECTION AGENCY IMMEDIATELY.

AFTER EACH INSPECTION, SPECIAL INSPECTION REPORTS ARE REQUIRED TO BE SUBMITTED TO THE CONTRACTOR, PROJECT ARCHITECT/ENGINEER, AND THE SPECIAL INSPECTION AGENCY. CORRECTION (S) BY THE CONTRACTOR IS RESPONSIBLE FOR COSTS OR RETESTING OR RECONSTRUCTION DUE TO DEFICIENCIES FROM THE CONTRACT DOCUMENTS AS NOTED BY THE SPECIAL INSPECTOR.

A SPECIAL INSPECTION PROGRAM SHALL BE DEVELOPED BY THE CONTRACTOR TO FACILITATE INSPECTION TO PERFORM WORK IN ACCORDANCE WITH REQUIREMENTS OF THE CONTRACT DOCUMENTS.

PRIOR TO THE START OF ANY WORK, THE CONTRACTOR SHALL FIELD VERIFY AND SURVEY ALL EXISTING DIMENSIONS, ELEVATIONS AND CONDITIONS. SUBMIT SURVEY INFORMATION FOR RECORD.
 1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS ON WHICH HIS WORK IS IN ANY WAY DEPENDENT FOR THE BEST WORKMANSHIP AND ORDERING ACCORDING TO THE INTENT OF CONSTRUCTION DOCUMENTS.
 2. THE CONTRACTOR SHALL CONSTRUCT WORK TO BE EXECUTED IN A SAFE, CAREFUL, AND ORDERLY MANNER, WITH THE LEAST POSSIBLE NOISE, DUST AND DISTURBANCE TO THE OWNER. CONTRACTOR SHALL COORDINATE CONSTRUCTION SEQUENCING WITH THE OWNER SO AS NOT TO DISRUPT THE OWNER'S OPERATIONS.
 3. CONTRACTOR SHALL PROTECT EXISTING BUILDING CONSTRUCTION AND EQUIPMENT SCHEDULED TO REMAIN. COORDINATE DEMOLITION WITH THE DRAWINGS. REMOVE FROM PROJECT SITE ALL EXISTING MATERIALS NOT TO BE REUSED. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE REMOVAL OF MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS TO BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY POSSESS OF SUCH MATERIALS.
 4. CONTRACTORS SHALL MAINTAIN AT ALL TIMES, ALL EXISTING SMOKE AND FIRE PROTECTION SYSTEMS. CONTRACTOR SHALL MAINTAIN ALL EXISTING ELECTRICAL AND MECHANICAL SYSTEMS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FOR THE REMOVAL OF MATERIALS. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS TO BECOME THE PROPERTY OF THE CONTRACTOR WHO SHALL LEGALLY POSSESS OF SUCH MATERIALS.
 5. UPON COMPLETION OF WORK ON EACH WORKDAY, LEAVE PREMISES NEAT AND ORDERLY.
 6. FOR ALL REMOVALS, THE CONTRACTOR SHALL PATCH REMAINING SURFACES AS REQUIRED TO MATCH EXISTING AND FINISH SURFACES. CONTRACTORS SHALL PROTECT EXISTING CONDITIONS AND REPAIR OR REPLACE AS DAMAGED BY THE WORK.
 7. ALL WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INITIATING, MAINTAINING, AND SUPERVISING ALL SAFE WORK PRACTICES AND PROGRAMS.
 8. ALL EXISTING MATERIALS TO BE REUSED SHALL BE PROTECTED AND NOT DESTROYED. 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. ALL EXISTING MATERIALS TO BE REUSED SHALL BE PROTECTED AND NOT DESTROYED. 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.
 10. FOR REINFORCING NOTED TO REMAIN, SHALL BE THOROUGHLY CLEANED AND INSPECTED FOR DECONTAMINATION. COORDINATE LOCATION FOR USE OF REINFORCING BAR MECHANICAL SPICE REPAIRS TO EXISTING SURFACE. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT AND THOROUGHLY CLEAN SURFACE. IRI SURFACE PROFILE LEVEL 6 OR GREATER.

PRIOR TO ANY EXCAVATION WORK, THE SUBCONTRACTOR SHALL LOCATE AND IDENTIFY ALL EXISTING BELOW GRADE UTILITIES WITHIN THE PROJECT LIMITS.

ALL EXISTING FOUNDATIONS SHALL BE PROPERLY OPENED, EXPOSED, PROVIDED PROTECTION AGAINST DAMAGE DUE TO SETTLEMENT AND CONSTRUCTION OPERATIONS.

ALL FOUNDATIONS AND SLABS SHALL BEAR ON UNDISTURBED NATIVE SOIL MATERIAL HAVING A MINIMUM OF 10% FINE SAND, SILT OR CLAY, NOT LESS THAN 150 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, CLAYEY SILT, SILT, SANDY SILT OR BENTONITE.

NO BACKFILL OR BASEMENT OR SOIL RETAINING WALLS UPON TEMPORARY LATERAL STRUCTURAL SUPPORT SYSTEM IS FULLY EFFECTIVE.

THE SUBGRADE SHALL BE FREE OF ALL ORGANIC CLAYS, PEAT, SOFT/UNSATURABLE SOILS, OR UNCONTROLLED FILL ARE ENCOUNTERED AND DETERMINED UNSUITABLE BY THE SOILS TESTING AGENCY. CONTRACTOR SHALL REMOVE THIS MATERIAL IN PLACE WITHIN 7 DAYS OF DISCOVERY AND REPLACE WITH APPROVED SUBGRADE MATERIAL.

SUBGRADE FOUNDATION SUBBASE SHALL BE COMPACTED TO PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.

THE SUBGRADE FOR THE SLABS ON GRADE IS TO BE PLACED AND COMPACTED TO A MINIMUM OF 95% MODIFIED PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT.

DETAIL, FABRICATE AND ERECT STRUCTURAL STEEL IN CONFORMANCE WITH THE AISC SPECIFICATIONS AND CODES, LATEST EDITIONS.

PERFORM ALL WELDING USING QUALIFIED WELDERS AND IN ACCORDANCE WITH THE AWS 'STRUCTURAL WELDING CODE - STEEL' LATEST EDITION

ALL STRUCTURAL STEEL SHALL BE NEW STEEL THAT CONFORMS TO ASTM WITH THE FOLLOWING MINIMUM FOR YIELD STRESS (F_y):

a. ALL SHAPES	50 KSI, ASTM A500, GR. C
b. HSS OTHER THAN	50 KSI, ASTM A575
c. ANCHOR BOLTS	50 KSI, GR 50, KSI, ASTM F1554
d. WELDING ELECTRODE	E70XX
e. GALVANIZED STRUCTURAL STEEL	ASTM A123
f. GALVANIZED BOLTS, FASTENERS, AND HARDWARE:	ASTM A153

ALL HSS MEMBERS TO HAVE "1/4" CLOSURE PLATE AT EACH OPEN END, SEAL WELDED.

STRUCTURAL STEEL FRAMING SUPPORTS SHALL BE HOT DIP GALVANIZED OR GALVANNEAL. REPAIR DAMAGED OR UNCOATED AREAS OF STEEL GALVANIZING WITH A GALVANIZED REPAIR PAINT ASTM A780.

CONCRETE SHALL BE NORMAL WEIGHT (150) AND HAVE THE FOLLOWING MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS:

1. CHASSIS W/ALL BRKS AND FOUNDATIONS 4500 PSI

2. ALL BAR REINFORCEMENT SHALL CONFORM TO ASTM A615, GRADE 60, WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, AND ALL REINFORCING BARS SHALL CONFORM TO ASTM A706 AND AWS D1.4

3. ALL WORKMANSHIP AND MATERIAL SHALL CONFORM TO THE "MANUAL OF STANDARD PRACTICE FOR CASTING AND CURING OF CONCRETE" PUBLISHED BY THE AMERICAN CONCRETE INSTITUTE

4. ALL REINFORCED CONCRETE (AC-308)

5. ALL REINFORCED CONCRETE SHALL BE SPACED SUCH THAT THE CENTER TO CENTER DISTANCE, MEASURED IN CONCRETE SLAB THICKNESS, SHALL BE NOT LESS THAN THE FOLLOWING MINIMUM:

CONCREITS HAVING OUTSIDE DIAMETER LARGER THAN ONE THIRD OF THE SLAB THICKNESS SHALL NOT BE USED IN CONCRETE SLAB THICKNESS. CONCREITS HAVING OUTSIDE DIAMETER SMALLER THAN ONE THIRD OF THE SLAB THICKNESS AT THE POINT OF INTERSECTION.

ALUMINUM CONDENSERS ARE NOT PERMITTED IN CONCRETE ELEMENTS

ALL CONCRETE REPAIRS SHALL BE DONE WITH A CRACK FILLER AND CRYSTALLINE ADMIXTURE. REFER TO PROJECT SPECIFICATIONS FOR ADDITIONAL INFORMATION

ALL CONCRETE MATERIAL SHALL BE PROPERLY CURED AND ALL JOINT SEALANT SHALL BE "THE 500" BY TREMCO OR APPROVED EQUIVALENT.

PROVIDE GRATING OF MATERIAL, FINISH, DEPTH AND THICKNESS INDICATED ON THE DRAWINGS
SUBMIT SHOP DRAWINGS FOR REVIEW AND APPROVAL WHICH INDICATES LOCATION AND SIZE OF EACH
PIECE OF GRATING. SHOW ATTACHMENTS TO STRUCTURAL FRAMING AS SPECIFIED
DO NOT HANG LOADS FROM GRATING. HANG ALL DUCTWORK, PIPING, ETC. DIRECTLY FROM
STRUCTURAL MEMBERS OR SUPPLEMENTARY FRAMING.
ENSURE ALL MATERIAL IN CONTACT WITH OR ANOTHER ARE OF SIMILAR METALS, PROVIDE NON-
COMPRESSIBLE ISOLATING MATERIAL BETWEEN DISSIMILAR METALS.
ALL GRATING SHALL BE HOT-DIPPED GALVANIZED

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"

BAR SIZE	4500 PSI NORMAL WEIGHT CONCRETE			
	TENSION			
	DEV. LENGTH (IN)	CLASS B SPLYCE LENGTH	TOP BAR DEV LENGTH (IN)	TOP BAR SPLYCE LENGTH (IN)
3	14	18	18	23
4	18	24	24	31
5	23	30	30	38
6	27	35	35	46
7	40	51	51	67
8	45	59	59	76
9	51	66	66	86
10	56	73	73	95
11	62	80	80	104

1. REINFORCING BARS ARE CLASSIFIED AS TOP BARS WHEN MORE THAN 12" OF CONCRETE IS CAST BENEATH RESPECTIVE REINFORCING BAR
2. "SIDE LAP" ALL LAP SPLICES TO PROVIDE MAXIMUM MOMENT CAPACITY

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 SUB-BASE		
INDICATES LOW DENSITY CELLULAR CONCRETE (LDCC)		
INDICATES EXISTING ROCK		
INDICATES NATIVE (EXISTING) SOIL		
INDICATES FOUNDATION UNDERPINNING		
INDICATES APPROXIMATE FINAL GRADE, SEE SITE DRAWINGS		
INDICATES NEW SOIL IN-FILL		
INDICATES NATIVE SAND		
INDICATES ASPHALT PAVEMENT		
INDICATES CONCRETE		
INDICATES CONCRETE MASONRY		
INDICATES STEEL		
INDICATES DEMOLISHED AREA		

CONCRETE COVER REQUIREMENTS	
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"

PVTA

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HYDRAULIC LIFT REPLACEMENT

**CONSTRUCTION
DOCUMENTS**



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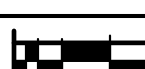
Wendel WD Architecture, Engineering, Surveying
Landscape Architecture, P.C.

NOTE:
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0	ISSUED FOR BID	03/13/2026
NO.	REVISIONS	DATE

ORG. TITLE

STRUCTURAL NOTES AND ABBREVIATIONS



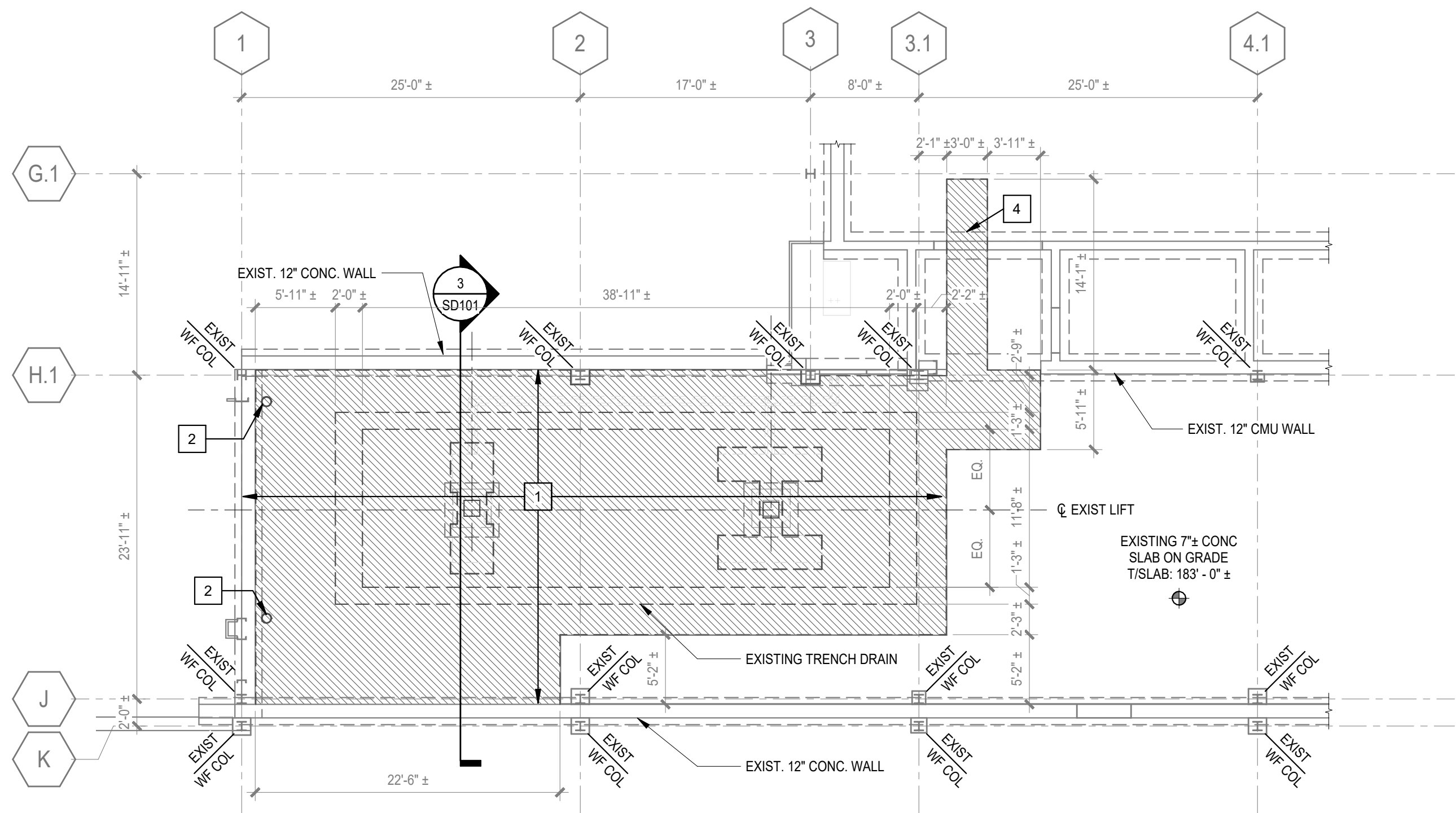
 0 1" 2"

GENERIC SCALE BAR

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

DATE	03/13/2026		
SCALE	As indicated		
DWN.	TNN	CHK.	MAW/PDR
PROJ. NO.	448715		

S001



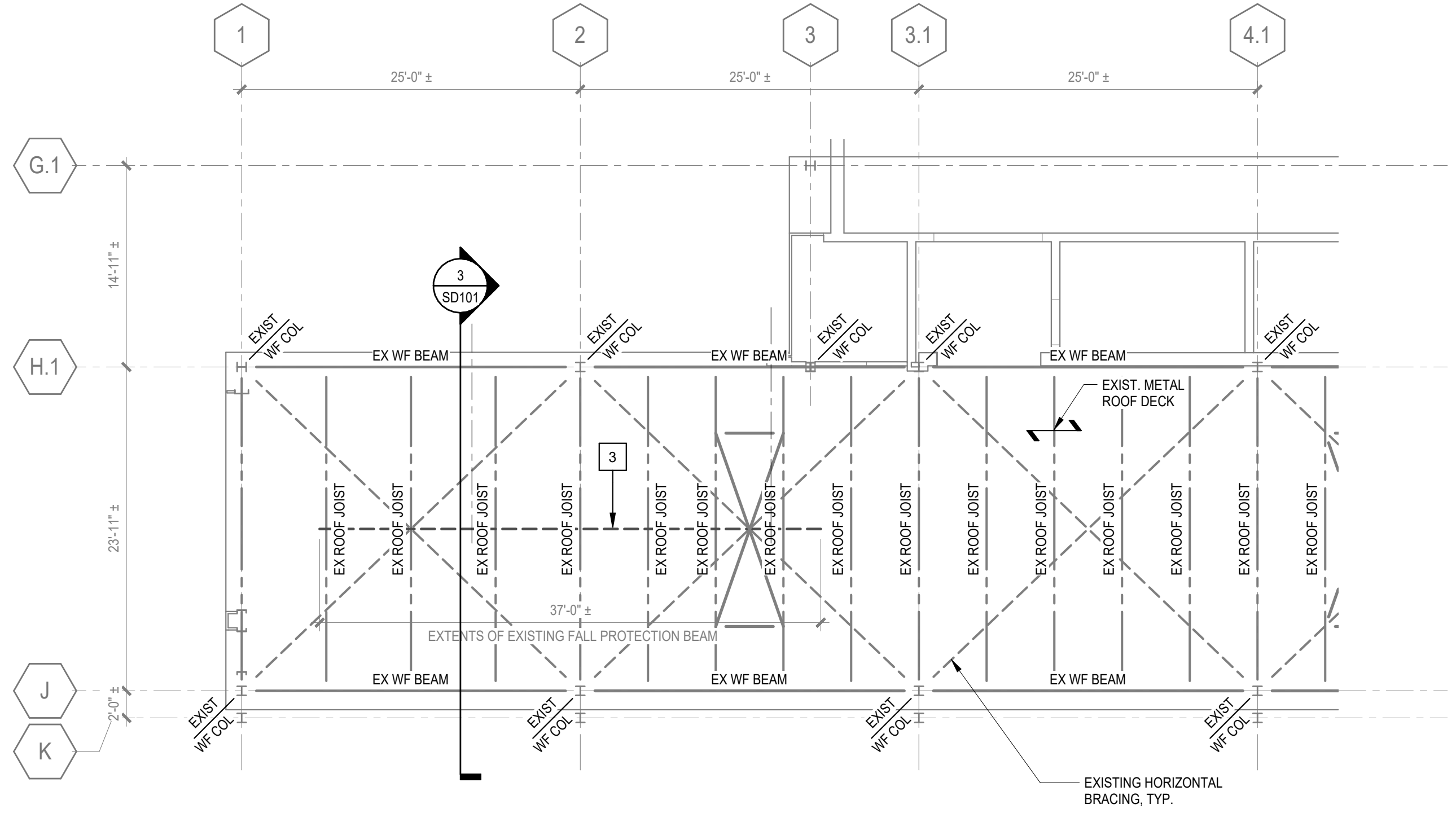
1 PARTIAL FIRST FLOOR - SLAB DEMOLITION PLAN
SCALE: 1/8" = 1'-0"

PLAN NOTES

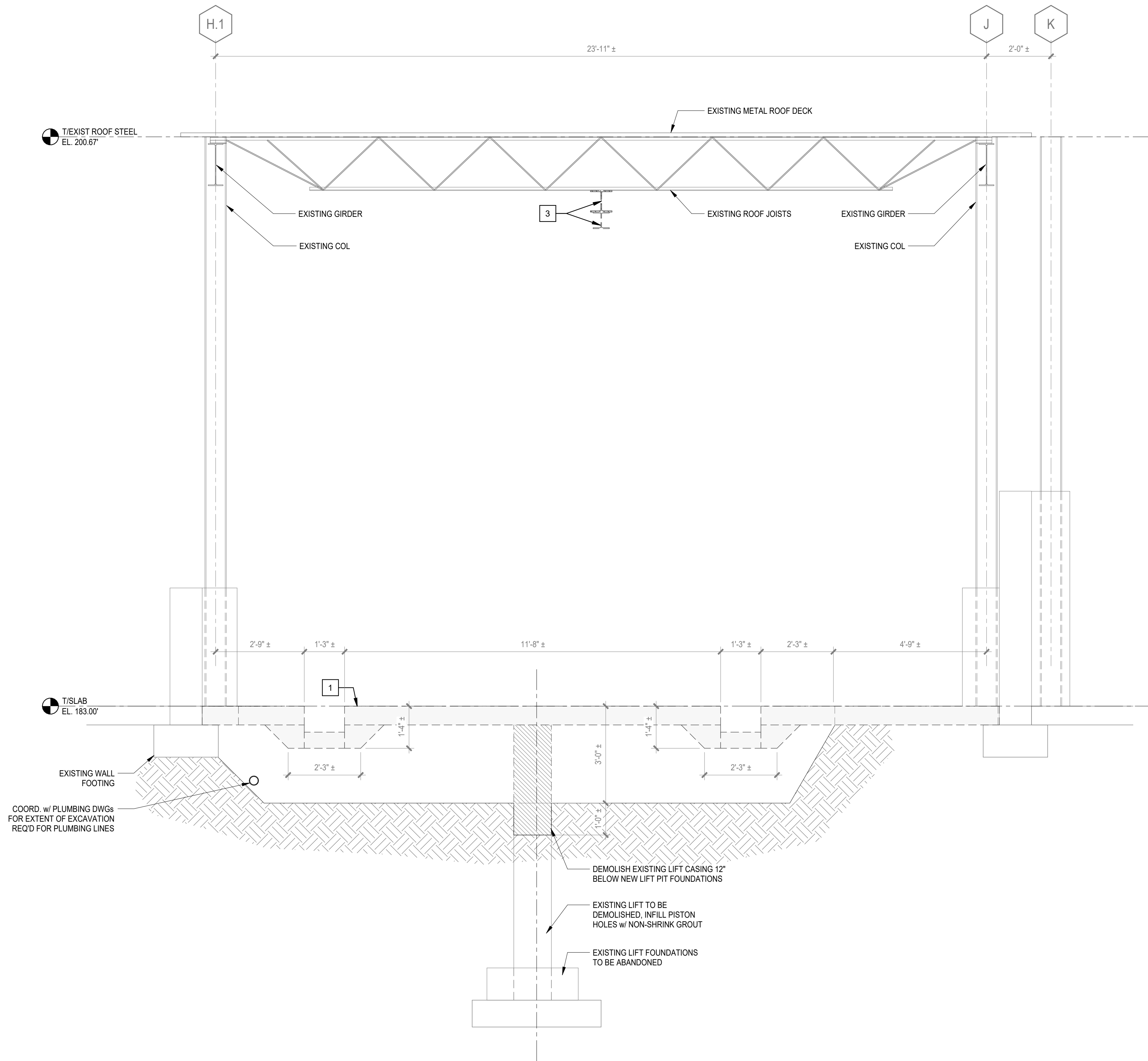
- DEMOLITION DIMENSIONS ARE THE MINIMUM REQUIRED. INCREASE AT LOCATIONS OF DETERIORATED CONCRETE AS REQ'D FOR ITS REPLACEMENT AROUND THE PERIMETER OF THE EXISTING DRAINS.
- PERFORM DEMOLITION AND REPAIR WORK IN THE CONSTRUCTION SEQUENCE INDICATED. COORDINATE CONSTRUCTION AREAS AND ACTIVITIES WITH THE OWNER TO LIMIT DISTURBANCE TO THE FACILITY'S OPERATIONS.
- INDICATES AREAS OF EXISTING SLAB TO BE DEMOLISHED. SAWCUT AND REMOVE SLAB AS REQUIRED. PRE-DRILL HOLES AT CORNERS, DO NOT OVERCUT. REFER TO KEYNOTES FOR ADDITIONAL INFORMATION.
- COORDINATE WITH EQUIPMENT AND PLUMBING DRAWINGS FOR ADDITIONAL INFORMATION REGARDING EXTENTS OF CONCRETE SLAB DEMOLITION.
- VERIFY EXISTING BOTTOM OF FOOTING ELEVATIONS IN FIELD AND NOTIFY E.O.R. IF DIFFERENT THAN SHOWN. CAREFULLY EXCAVATE SOILS ADJACENT TO EXISTING FOUNDATIONS SO NOT TO UNDERMINE THE FOUNDATIONS.

KEYNOTES

1	EXISTING 7" SLAB-ON-GRADE AND ASSOCIATED FLOOR TRENCH DRAINS TO BE DEMOLISHED. AT TRENCH DRAINS, SAWCUT EITHER SIDE OF EXISTING TRENCH DRAINS TO REMOVE THE DRAIN, FOUNDATION, AND SURROUNDING SLABS.
2	EXISTING FLOOR MOUNTED PIPE BOLLARD TO BE DEMOLISHED
3	EXISTING FALL PROTECTION BEAMS TO BE DEMOLISHED. GRIND BEAM TO JOIST WELDED CONNECTIONS FLUSH WITHOUT DAMAGING EXISTING JOISTS TO REMAIN.
4	EXISTING 12" x 24" WALL FOOTING. SAWCUT AND REMOVE AS REQUIRED FOR NEW MEP LINE INSTALLATION. COORDINATE WITH MEP AS REQUIRED.



2 PARTIAL ROOF FRAMING PLAN
SCALE: 1/8" = 1'-0"



3 EXISTING BUILDING SECTION
SCALE: 1/2" = 1'-0"



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UMASS TRANSIT FACILITY
185 HOLDSWORTH, AMHERST, MA
01003

HYDRAULIC LIFT
REPLACEMENT

CONSTRUCTION
DOCUMENTS



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Wendel W.D. Architecture, Engineering, Surveying and
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NO.	ISSUED FOR RWD	DATE
1	ISSUED FOR RWD	03/13/2026
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DWG. TITLE

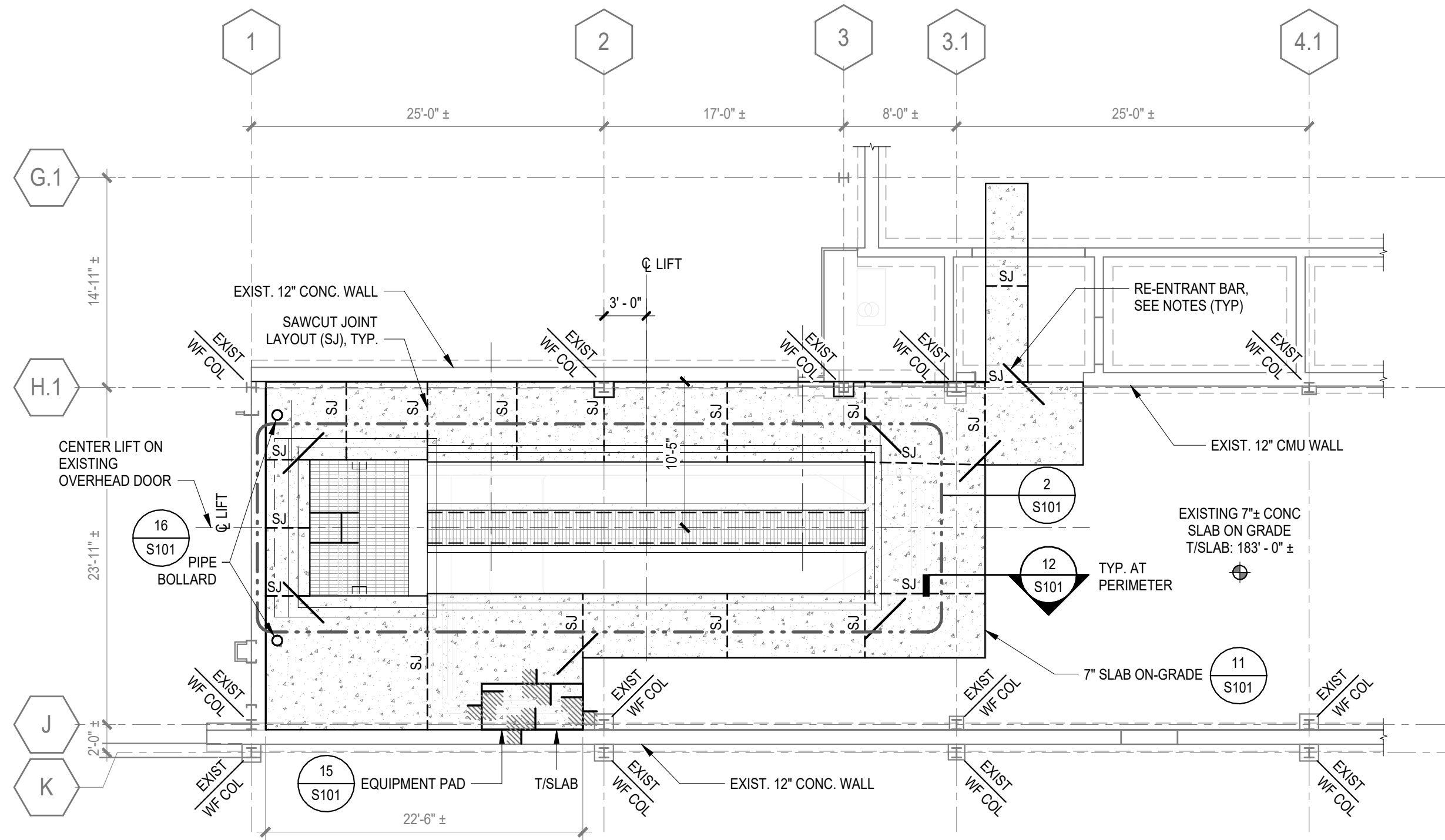
PARTIAL EXISTING SLAB ON
GRADE DEMOLITION PLAN



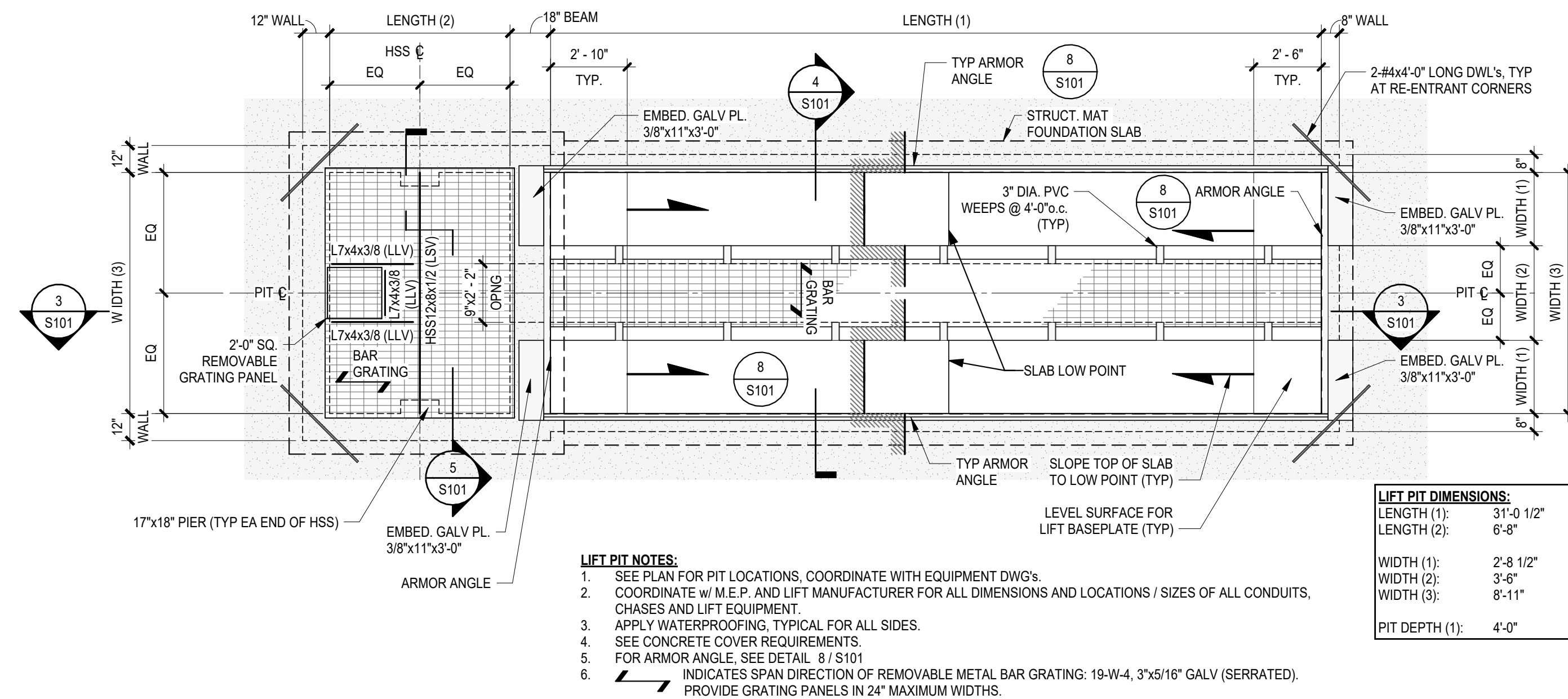
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IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY.

DATE	03/13/2026
SCALE	As indicated
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CHK.	MAW/PDK
PROJ. No.	448715
DWG. No.	

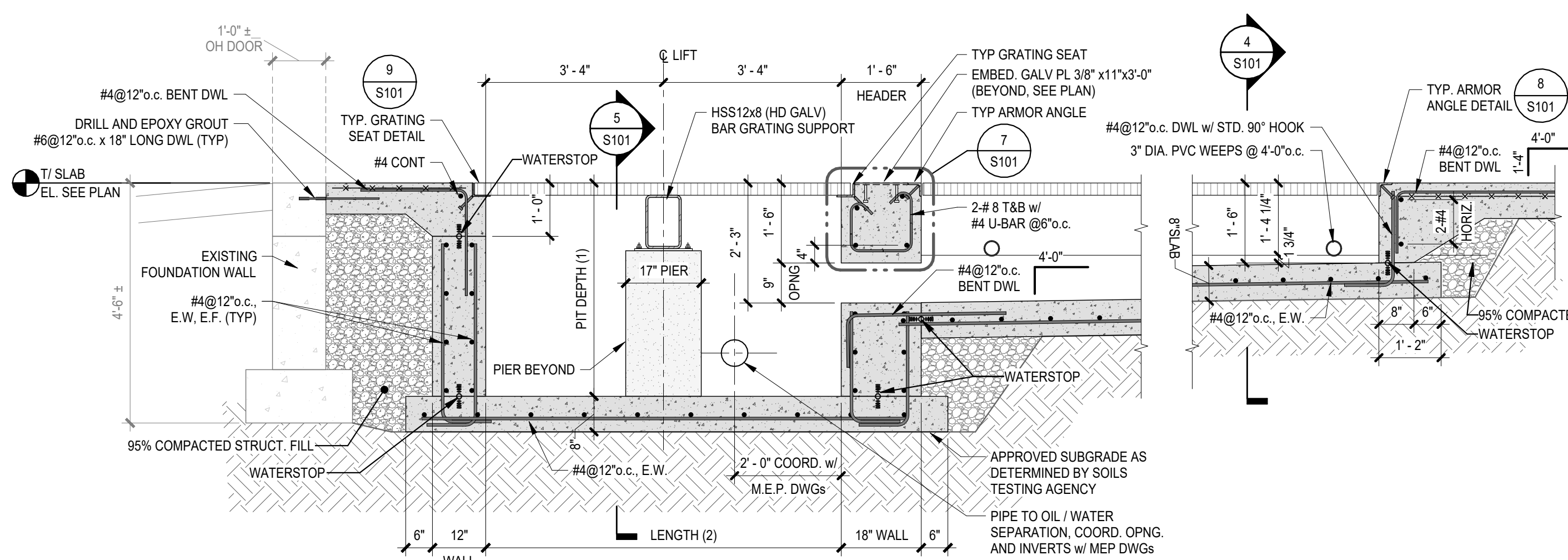
SD101



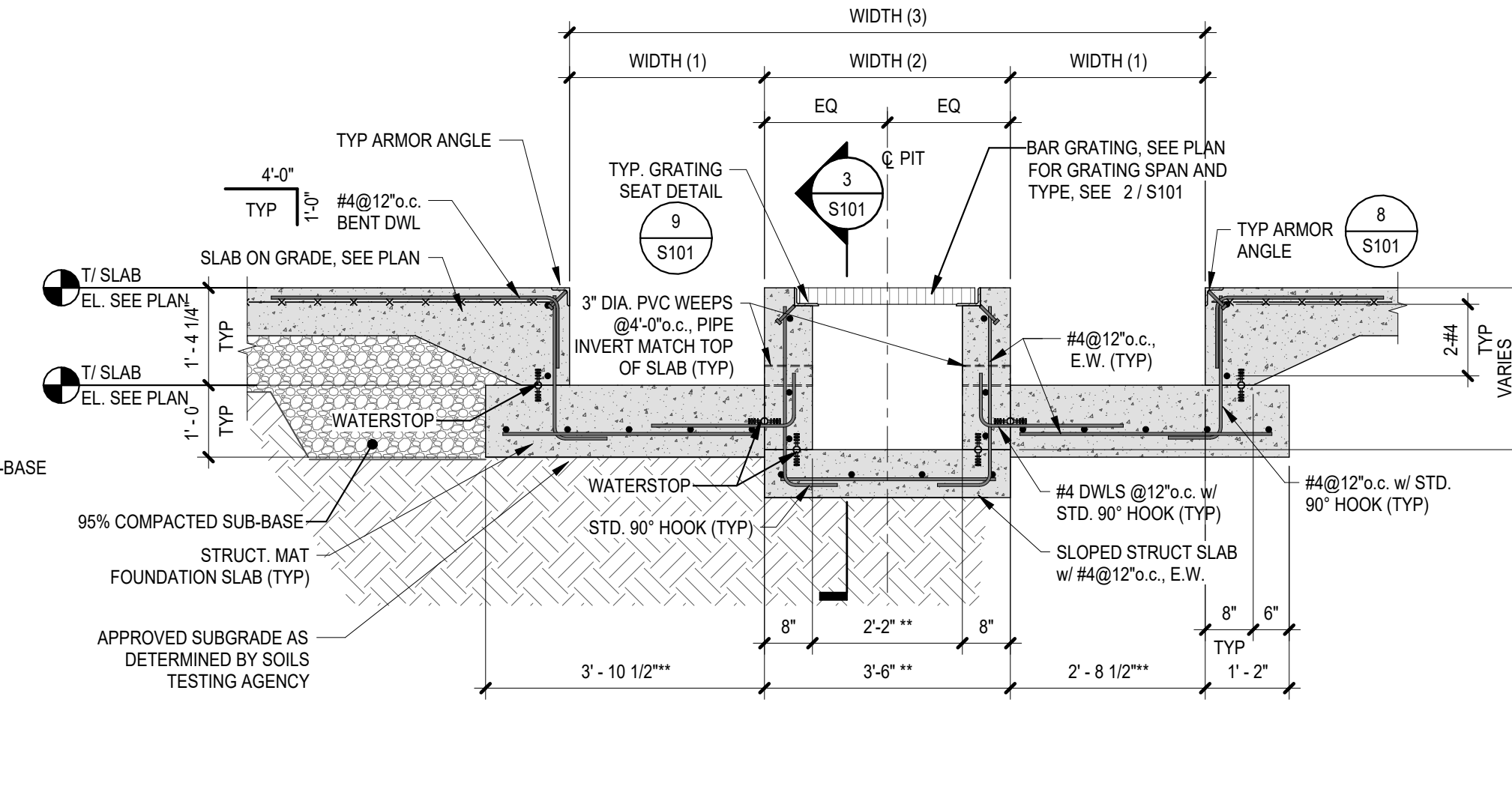
1 PARTIAL FIRST FLOOR - SLAB AND LIFT FOUNDATION PLAN
SCALE: 1/8" = 1'-0"



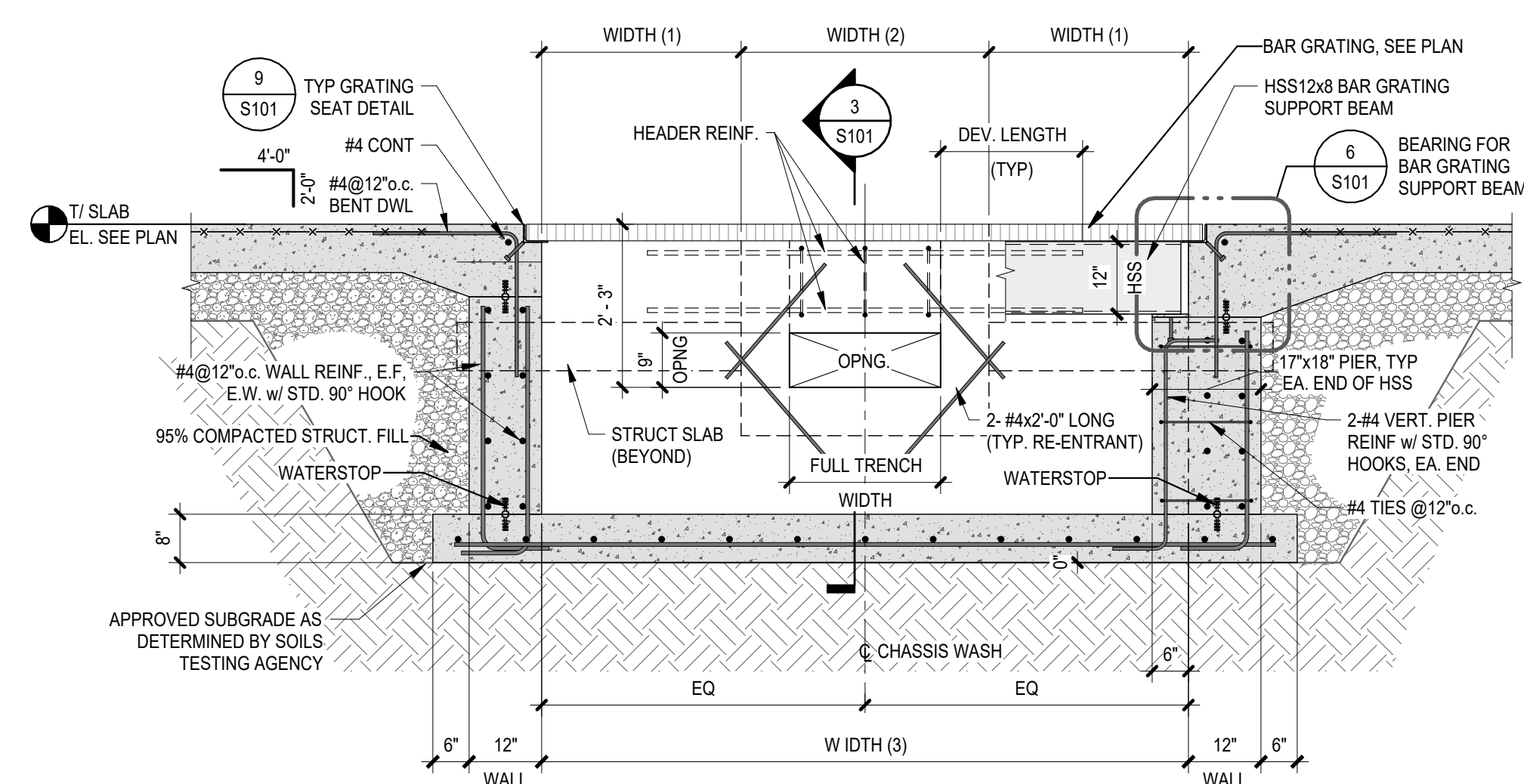
2 CHASSIS WASH PIT PLAN
NOT TO SCALE



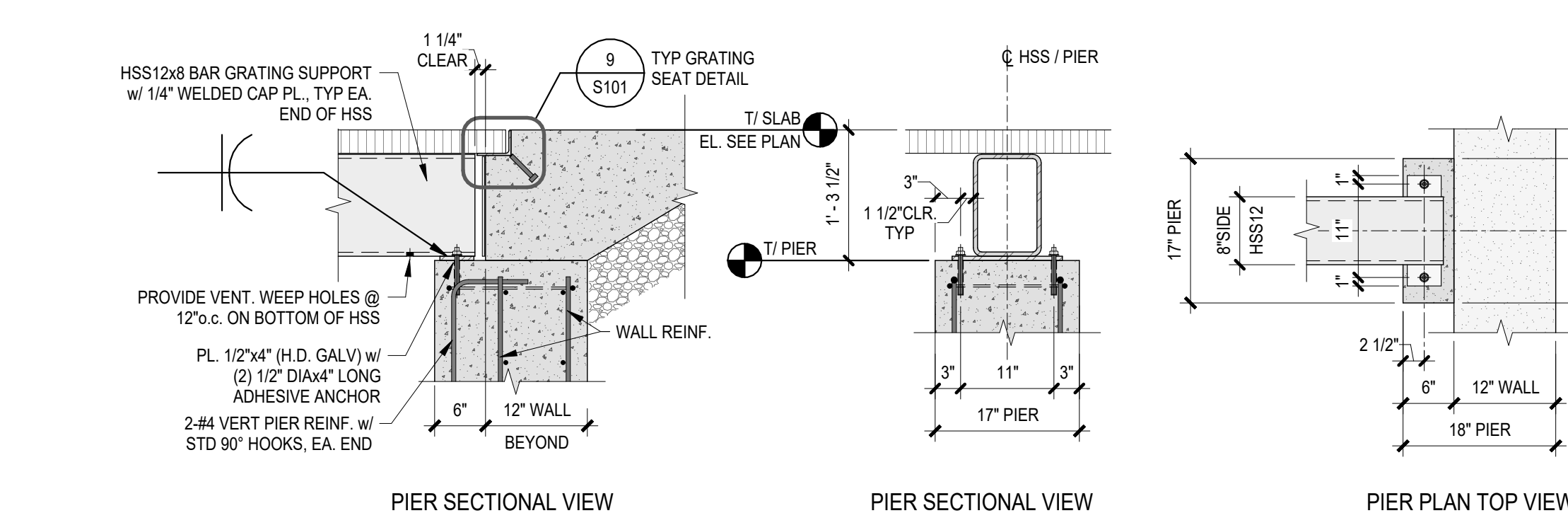
3 CHASSIS WASH LONGITUDINAL SECTION
NOT TO SCALE



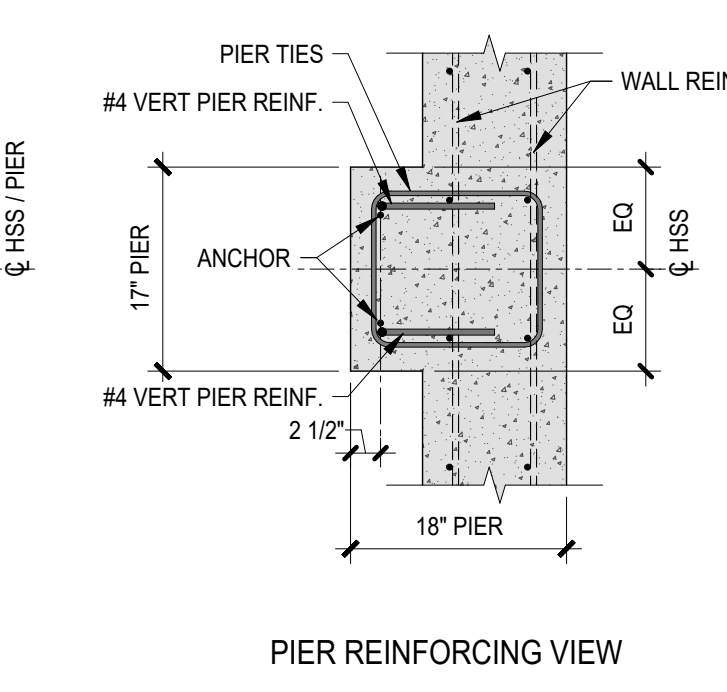
4 CHASSIS WASH CROSS SECTION
NOT TO SCALE



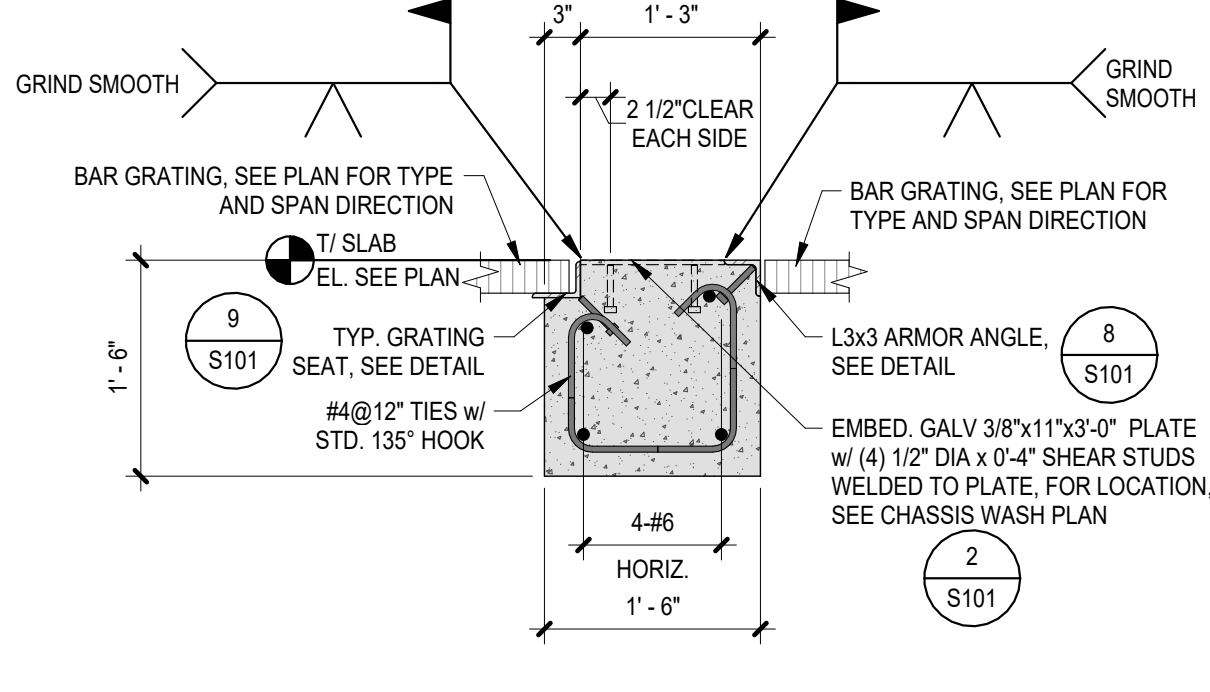
5 CHASSIS WASH CROSS SECTION THRU PIT
SCALE: 1/2" = 1'-0"



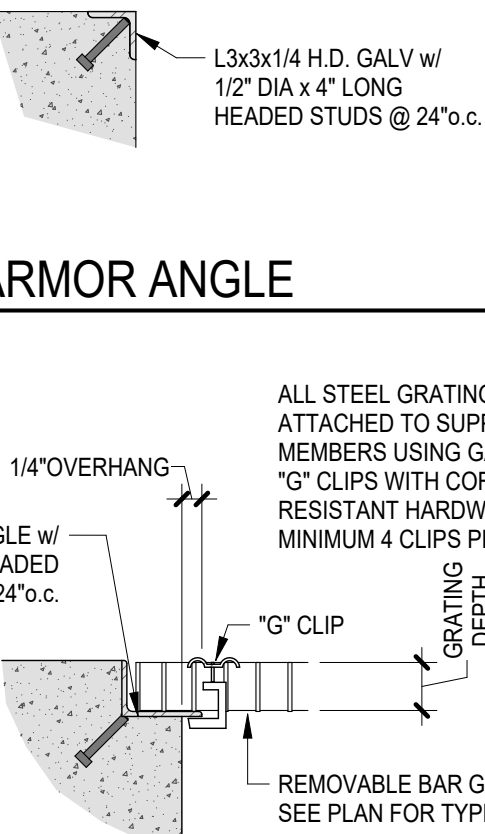
6 CHASSIS BAR GRATING SUPPORT BEAM BEARING DETAILS
NOT TO SCALE



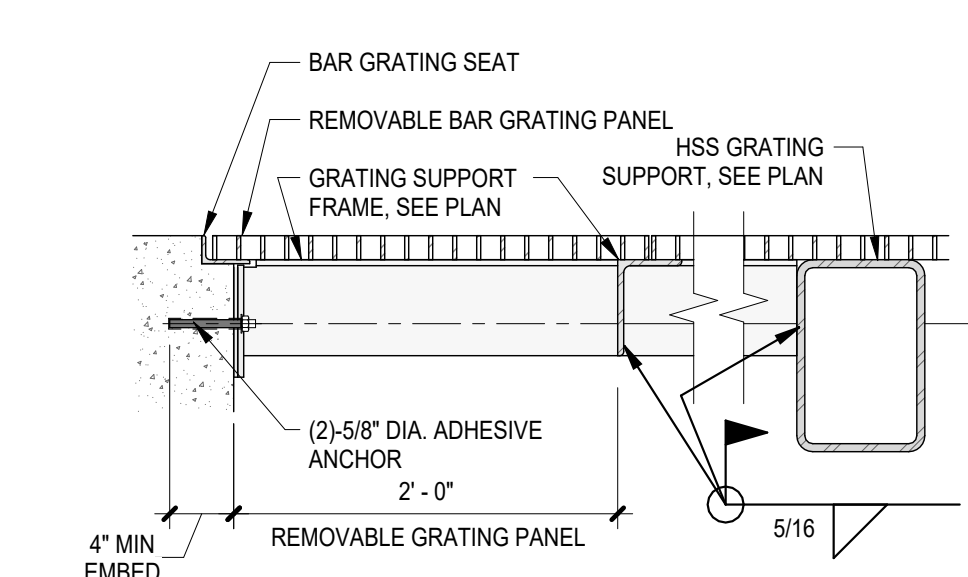
7 CHASSIS HEADER BEAM BEARING
NOT TO SCALE



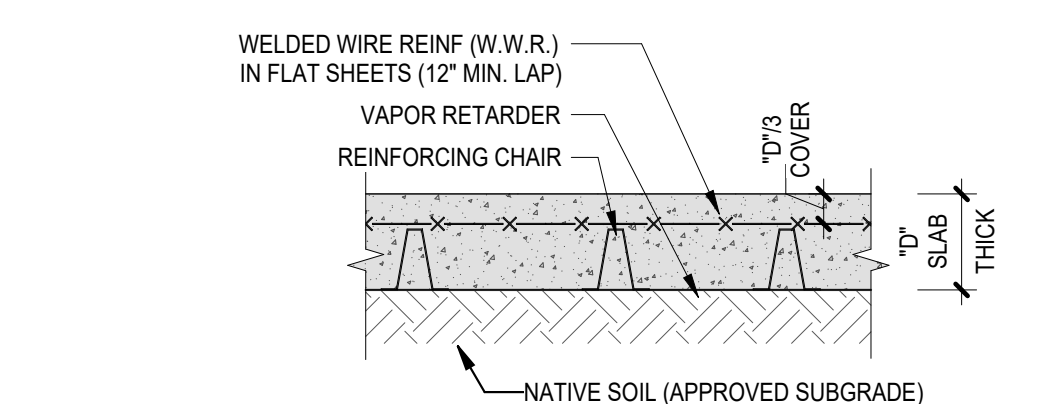
8 TYPICAL ARMOR ANGLE
NOT TO SCALE



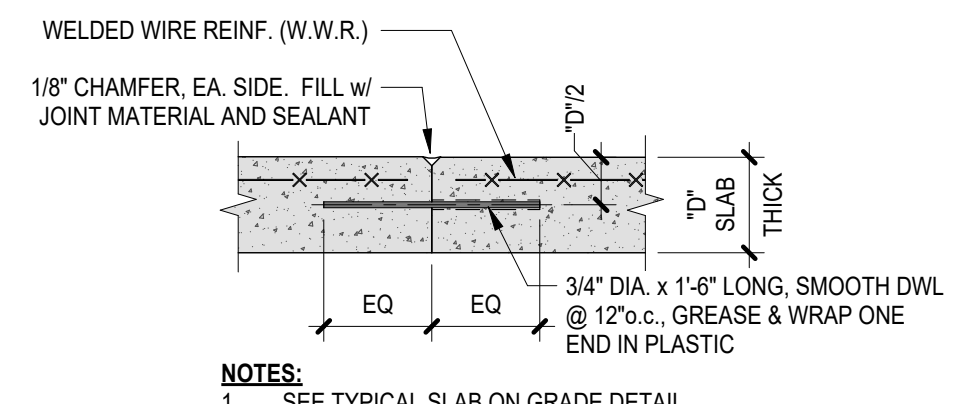
9 TYPICAL BAR GRATING SEAT DETAIL
NOT TO SCALE



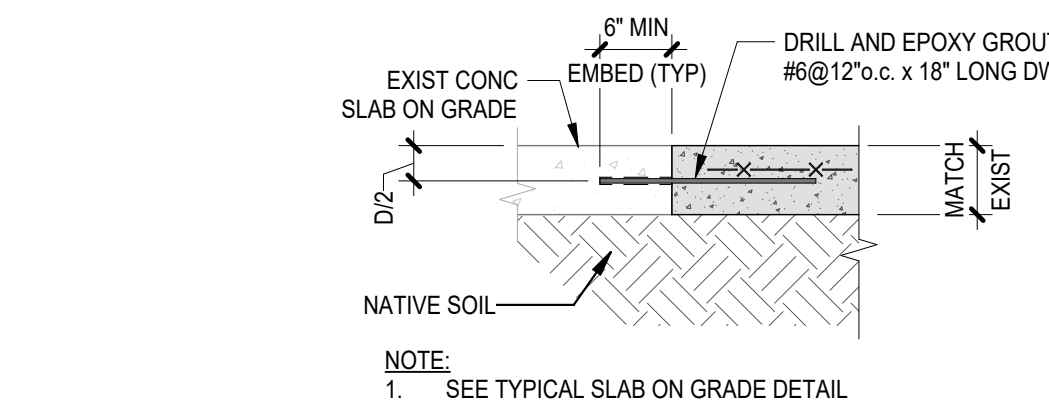
10 GRATING SUPPORT DETAILS
NOT TO SCALE



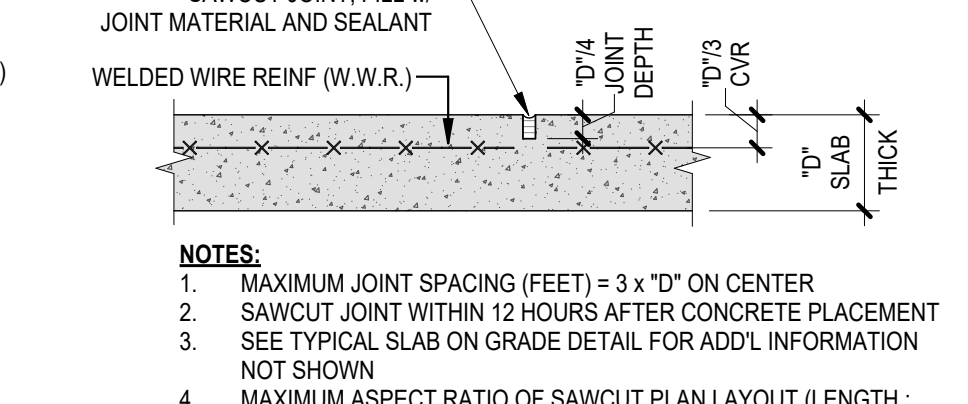
11 TYPICAL SLAB DETAIL
NOT TO SCALE



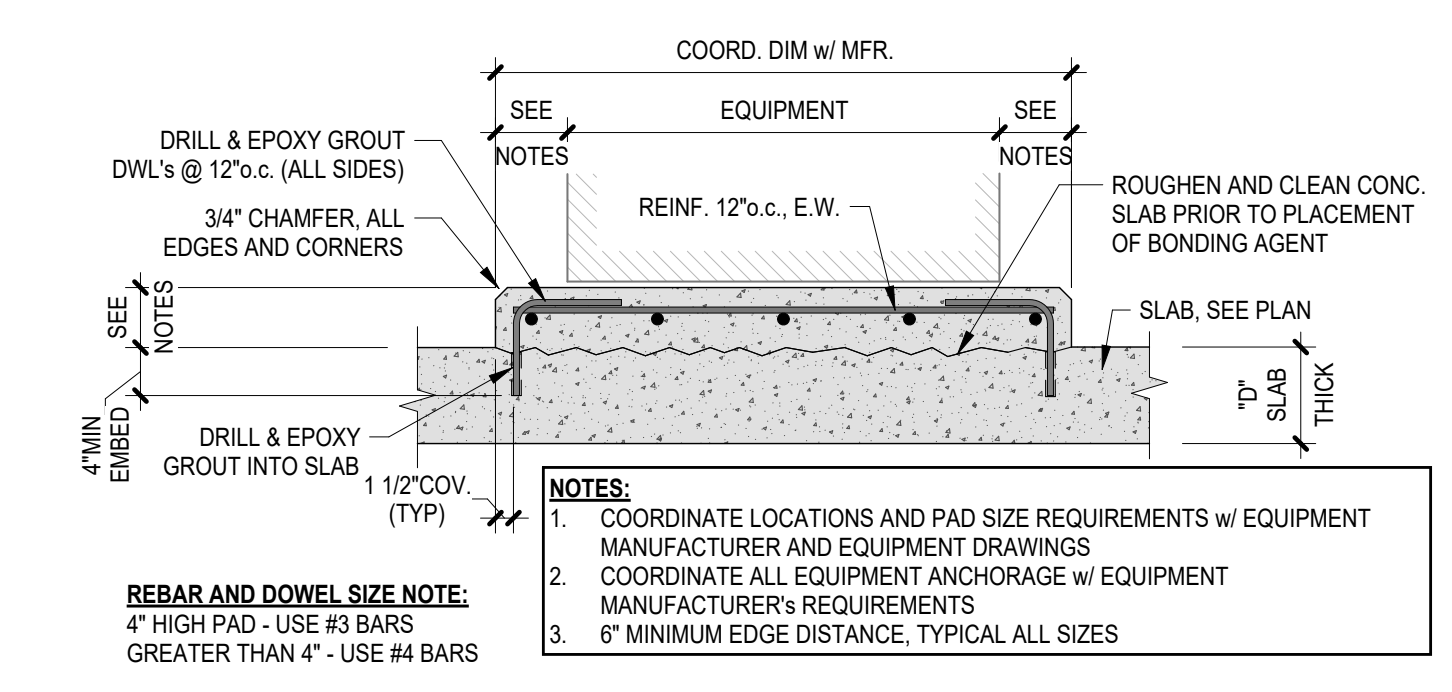
13 TYPICAL FORMED JOINT (FJ)
NOT TO SCALE



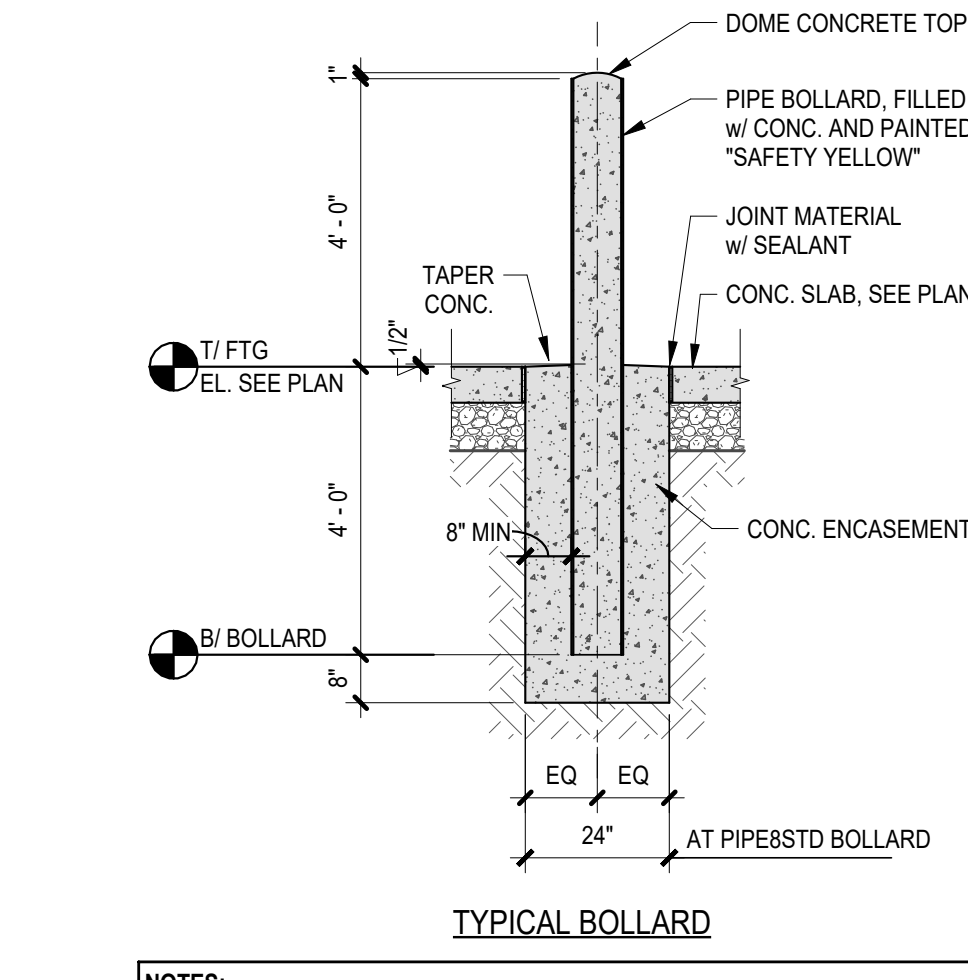
12 TYPICAL SLAB DETAIL
SCALE: 3/4" = 1'-0"



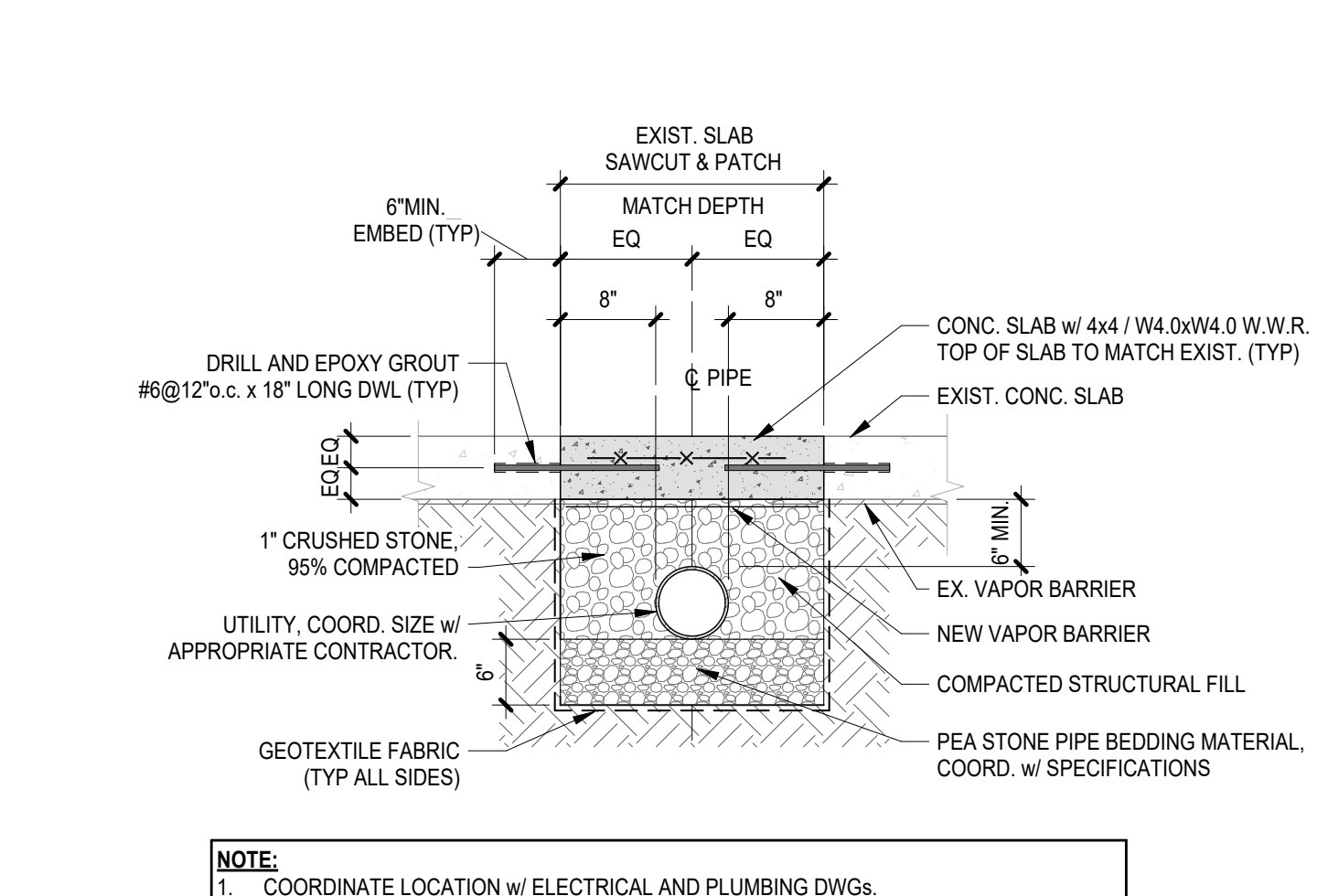
14 TYPICAL SAWCUT JOINT (SJ)
NOT TO SCALE



15 TYPICAL HOUSEKEEPING PAD DETAIL
SCALE: 3/4" = 1'-0"



16 TYPICAL BOLLARD
SCALE: 3/8" = 1'-0"



17 TYPICAL SLAB PATCH AT UTILITY
SCALE: 3/4" = 1'-0"

- PLAN NOTES**
- REFER TO DEMOLITION PLAN FOR EXISTING SLAB AND FOUNDATION DEMOLITION EXTENTS. COORDINATE CONSTRUCTION AREAS AND ACTIVITIES WITH THE OWNER TO LIMIT THE DISTURBANCE TO THE FACILITY'S OPERATIONS.
 - TOP OF SLAB = 183.00' ± UNLESS NOTED OTHERWISE.
 - BASIS OF DESIGN PLATFORM LIFT.
 - MANUFACTURER: STERIL KONI
 - MODEL: SKYLIFT 780-9 FLUSH MOUNT NO AUTOMATIC PIT COVERS
 - FINISH, CURE, AND SEAL SLAB ON GRADE AS FOLLOWS:
 - FINE BROOM FINISH
 - SHAKE ON FLOOR HARDENER
 - DISPENSING CURING COMPOUND
 - PENETRATING SEALER
 - PROVIDE WATERSTOP AT ALL FORM JOINTS IN TRENCH DRAIN.
 - PROVIDE (2) #4x4'-0" LONG BAR AT ALL SLAB RE-ENTRANT CORNERS.
 - ALL STRUCTURAL STEEL FRAMING AND COMPONENTS TO BE HOT DIPPED GALVANIZED. REPAIR DAMAGED OR UNCOATED AREAS OF STEEL GALVANIZING WITH A GALVANIZED REPAIR PAINT PER ASTM A780.
 - SJ INDICATES SLAB SAWCUT JOINT. SEE TYPICAL DETAILS FOR ADDITIONAL INFORMATION.



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HYDRAULIC LIFT REPLACEMENT

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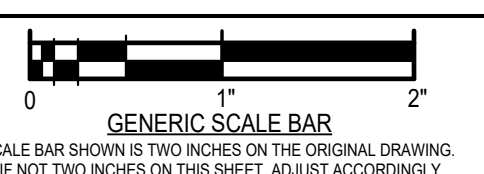


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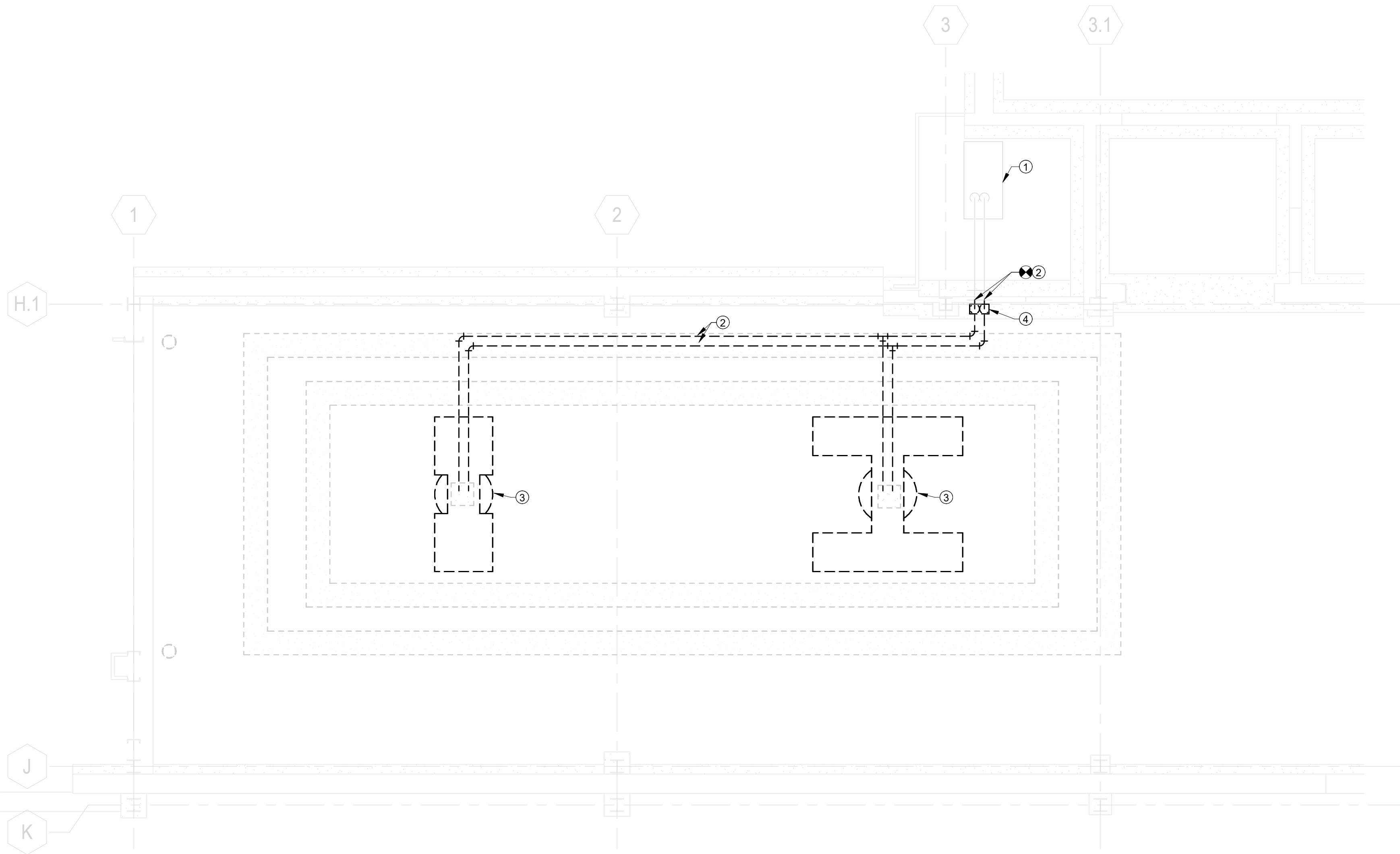
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1	ISSUED FOR INFO		03/13/2026

PARTIAL FIRST FLOOR SLAB, LIFT FOUNDATION PLAN AND DETAILS



DATE: 03/13/2026
SCALE: As indicated
DWN: TNN CHK: MAW/PCK
PRJ: No. 448715
DWG: No.

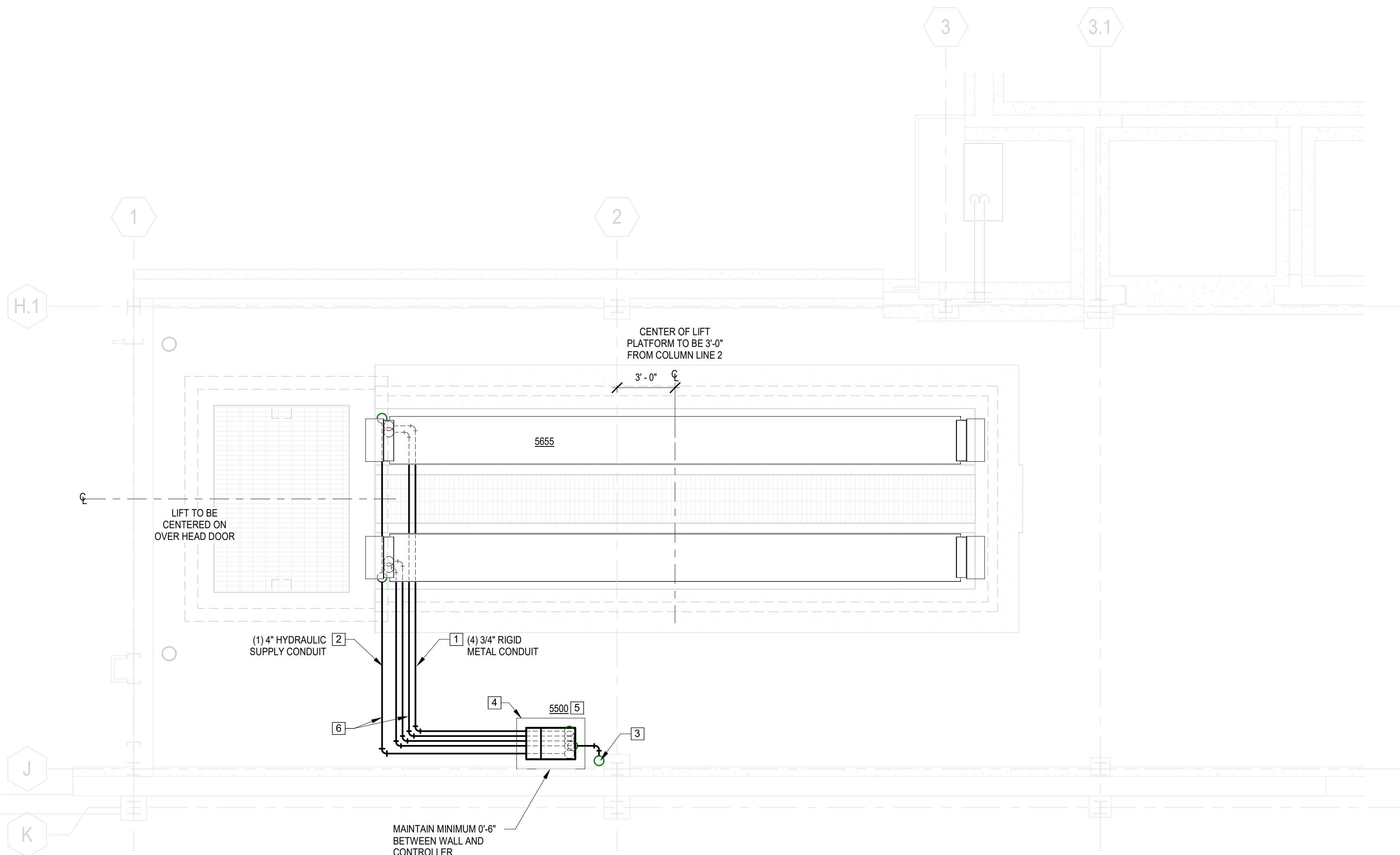
S101



2 CHASSIS WASH BAY EQUIPMENT DEMOLITION PLAN
SCALE: 1/4" = 1'-0"

DEMOLITION NOTES

- EXISTING HYDRAULIC FLUID TANK TO REMAIN.
- DISCONNECT AND REMOVE HYDRAULIC LINES BELOW SLAB, SERVING CHASSIS WASH LIFT IN THEIR ENTIRETY, BACK TO POINT INDICATED, AFTER CONTROLLER AND CAP. ENSURE HYDRAULIC LINES SERVING LIFT IN THE ADJACENT BAY ARE NOT DISCONNECTED, AND LIFT REMAINS OPERATIONAL. COORDINATE ANY REQUIRED SHUT DOWN PERIOD OF ADJACENT LIFT WITH OWNER.
- DISCONNECT AND REMOVE IN-GROUND LIFT IN ITS ENTIRETY.
- DISCONNECT AND REMOVE LIFT CONTROLLER IN ITS ENTIRETY.



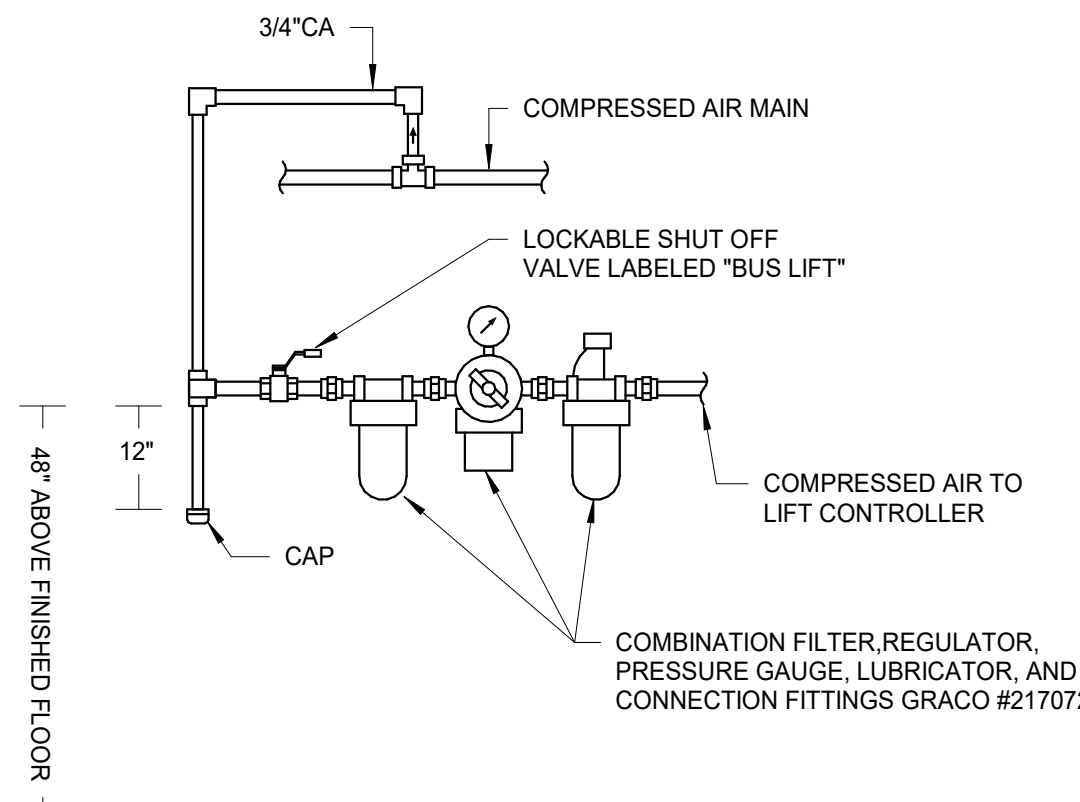
1 CHASSIS WASH BAY EQUIPMENT NEW WORK PLAN
SCALE: 1/4" = 1'-0"

EQUIPMENT SCHEDULE

ID#	DESCRIPTION	METHOD	SPEC SECTION	UTILITIES REQUIRED		NOTES
				CA	ELEC	
5500	LIFT CONTROLLER	OF/CI	144500	X	X	LIFT CONTROLLER PROVIDED BY LIFT MANUFACTURER
5555	PLATFORM LIFT	OF/CI	144500	X	X	OWNER TO PROVIDE COMPLETE INSTALLATION DRAWINGS FROM MANUFACTURER

CONSTRUCTION NOTES

- PROVIDE (4) 3/4" RIGID METAL CONDUIT BELOW SLAB FROM LIFT CONTROLLER TO LIFT TO ACCOMMODATE LOW VOLTAGE WIRING. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
- PROVIDE (1) 4" PVC CONDUIT BELOW SLAB FROM LIFT CONTROLLER TO LIFT. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
- CONNECT 1/2" COMPRESS AIR PIPING TO EXISTING COMPRESSED AIR LINE ALONG COLUMN. PROVIDE TRANSITION FROM COMPRESSED AIR PIPING TO 1/4" COMPRESSED AIR TUBING APPROXIMATELY 12" ABOVE FINISHED FLOOR. PROVIDE LOCKABLE SHUT-OFF VALVE AND FILTER/REGULATOR/LUBRICATOR IN RISER PRIOR TO TRANSITION. LABEL VALVE AS BUS LIFT SHUT-OFF. PROVIDE 1-1/2" RIGID METAL CONDUIT INSTALLED IN FLOOR SLAB FROM COLUMN TO LIFT CONTROLLER. INSTALL 1/4" FLEXIBLE TUBING IN RIGID CONDUIT AND EXTEND TO LIFT CONTROLLER. REFER TO MANUFACTURERS INSTALLATION INSTRUCTIONS FOR FURTHER INFORMATION.
- PROVIDE 4" HIGH CONCRETE EQUIPMENT PAD A MINIMUM OF 6" BEYOND EQUIPMENT FOOTPRINT IN ALL DIRECTIONS. REFER TO STRUCTURAL DRAWINGS FOR FURTHER INFORMATION.
- LIFT AND ASSOCIATED CONTROLLER, FURNISHED BY OWNER, INSTALLED BY CONTRACTOR. REFER TO SPECIFICATION FOR FURTHER INFORMATION. CONTRACT TO INSTALL PER MANUFACTURERS WRITTEN INSTALLATION INSTRUCTIONS.
- REFER TO TYPICAL SLAB PATCH AT UTILITY DETAIL ON STRUCTURAL DRAWINGS FOR SAW CUT & PATCH AND BELOW SLAB PIPING INSTALLATION.



3 LIFT COMPRESSED AIR DETAIL
SCALE: NOT TO SCALE

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EQUIPMENT PLANS



DATE	03/13/2026
SCALE	As indicated
DWN.	KGJ
CHK.	JTW
PROJ. No.	448715
DWG. No.	



1. DISCONNECT AND REMOVE OIL WASTE PIPING, BELOW SLAB, BACK TO POINT INDICATED. PREPARE PIPING TO REMAIN FOR RECONNECTION.
2. EXISTING OIL WASTE PIPING BELOW SLAB TO BE: JET FLUSHED, FLOW TESTED AND VIDEO SCOPED TO VERIFY INTEGRITY OF PIPING BACK TO 6" MAIN. VIDEO SCOPE RESULTS AND SUMMARY SHALL BE SUBMITTED TO ENGINEER FOR REVIEW AND DIRECTION.
3. UPON APPROVAL FROM ENGINEER, IF OIL WASTE LINE IS IN APPROVED CONDITION FOR CONNECTION OF CHASSIS WASH OIL WASTE LINE, DISCONNECT AND REMOVE OIL WASTE PIPING BELOW SLAB BACK TO POINT INDICATED. PREPARE PIPING TO REMAIN FOR RECONNECTION.

CHASSIS WASH BAY PLUMBING
DEMOLITION PLAN
1/8" = 1'-0"



NOTE:
IF EXISTING PIPING IS COMPROMISED, OIL WASTE PIPING FROM CHASSIS WASH PIT SHALL ONLY BE TIED INTO THE EXISTING SUMP PIT. IF EXISTING OIL WASTE PIPING IS IN GOOD OPERABLE CONDITION, BOTH OIL WASTE CONNECTIONS SHALL BE PROVIDED. FINAL DECISION SHALL BE COORDINATED WITH ENGINEER FOLLOWING VIDEO SCOPE SUBMITTAL REVIEW.

1. CONNECT EXISTING OIL WASTE PIPING, BELOW SLAB FROM FLOOR DRAIN TO 4" OIL WASTE PIPING AT POINT INDICATED.
2. CONNECT 4" OIL WASTE PIPING BELOW SLAB INTO EXISTING OIL WASTE SUMP AT POINT INDICATED.
3. CONNECT 4" OIL WASTE PIPING BELOW SLAB INTO EXISTING SUMP PIT. BORE THROUGH EXISTING SUMP PIT FOR CONNECTION. CONNECTION TO SUMP PIT SHALL BE WATER TIGHT.
4. PROVIDE 4" FLOOR CLEAN OUT WITH ROUND ADJUSTABLE EXTRA HEAVY DUTY DUCTILE IRON TOP AND SECONDARY PLUG, MIFAB MODEL #C1100-XR-4-34-BA.
5. CONNECT 4" OIL WASTE PIPING BELOW SLAB TO EXISTING AT POINT INDICATED. PROVIDE 4" FLOOR CLEAN OUT WITH ROUND ADJUSTABLE EXTRA HEAVY DUTY DUCTILE IRON TOP AND SECONDARY PLUG, MIFAB MODEL #C1100-XR-4-34-BA.
6. COORDINATE WITH STRUCTURAL DRAWINGS FOR MODIFICATIONS TO EXISTING FOUNDATION WALLS AS REQUIRED FOR PIPE INSTALLATION.
7. REFER TO TYPICAL SLAB PATCH AT UTILITY DETAIL ON STRUCTURAL DRAWINGS FOR SAW CUT & PATCH AND BELOW SLAB PIPING INSTALLATION.

CHASSIS WASH BAY PLUMBING NEW
2 WORK PLAN
1/8" = 1'-0"

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WING TITLE

LUMBERING PLANS

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	03/13/2026		
SCALE	1/8" = 1'-0"		
BY	KGV	CHK.	JTW
REQ. No.	448715		
WG. No.			

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. XXX-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.

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 CONTRACTORS 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 RUNS SHALL BE CONCENTRIC. BENDS IN 90° CORNERS SHALL BE 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 WHERE THERE IS NO OTHER WAY TO RUN. CONDUITS WILL NOT 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 ENT CONDUIT. A MAXIMUM OF TWO (2) CIRCUITS CAN BE GROUPED TOGETHER IN A HOMERUN CONDUIT. EACH CIRCUIT SHALL HAVE ONE (1) BRANCH CIRCUIT. BRANCH CIRCUITS 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 SIZED PER NEC. MIN. GROUPING OF GROUND WIRES (1) GROUND PER (3) CIRCUITS IS ACCEPTABLE. MAXIMUM LENGTH OF MC CABLE ALLOWED FOR A WHP CONNECTION TO LUNING OR TO THE EXTERIOR (OUTDOOR) RECEPTACLE & LIGHT FIXTURE BRANCH CIRCUITS SHALL BE IN MCNM CONDUIT 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 COST FOR SEALING ALL PENETRATIONS THROUGH FIRE & SMOKE WALLS USING UL APPROVED SEALANT & METHODS.

I. UNLESS OTHERWISE NOTED, PROVIDE ALL NEW RECAVAYS. USE SURFACE RACEWAY ONLY WHERE INDICATED ON THE PLANS. IF CONTRACTOR INTENDS TO UTILIZE SURFACE RACEWAY IN ANY OF THE AREAS WHERE THESE ARE INDICATED ON PLAN, PRIOR APPROVAL IS REQUIRED FROM ENGINEER & OWNER.

J. CONTRACTOR MAY REUSE EXISTING CONCEALED CONDUIT UNLESS OTHERWISE NOTED ON THE PLANS.

K. ALL RACEWAYS CROSSING BUILDING EXPANSION JOINTS SHALL BE EQUIPPED WITH EXPANSION FITTINGS.

L. CONTRACTOR SHALL PROVIDE INFORMATION LABELS ON ALL RECEPTABLES, PANELBOARDS, JUNCTION BOXES, WALL SWITCHES, & DISCONNECT SWITCHES. THESE SHALL BE IDENTICAL TO THE INFORMATION LABELS ON THE EQUIPMENT. ENGRAVING OR LETTERING, SHALL BE IDENTICAL TO THE INFORMATION LABELS ON THE EQUIPMENT. LABELING SHALL INDICATED CIRCUIT/FEEDER SOURCE & EQUIPMENT & NAME.

WP	INDICATES WEATHERPROOF DEVICE OR EQUIPMENT
WD	INDICATES DEVICE SHALL HAVE FIRE GUARD PROTECTION
AF	ABOVE FINISHED FLOOR
(ETR)	ABOVE FINISHED GRADE
EX	EXISTING EQUIPMENT SHALL REMAIN IN PLACE
UC	UNDER COUNTER INSTALL (IF ABOVE COUNTER HEIGHT)
NC	UNDER COUNTER INSTALL (IF ABOVE FINISHED FLOOR)
UNAC	USUAL NOTIFICATION APPLIANCE CIRCUIT
UD	AUDIO NOTIFICATION APPLIANCE CIRCUIT
SC	SIGNAL LINE CIRCUIT
ATS	AUTOMATIC TRANSFER SWITCH
KV	HORSEPOWER
KW	KILOWATT
KVA	KILOVOLT-AMPERES
VF	VARIABLE FREQUENCY DRIVE
EM	EMERGENCY
ND	NIGHTLIGHT (TYPICAL FOR LIGHTING, 'ON ALL THE TIME)
LTG	LIGHTING
CPW	CONTINUOUS LOAD (POWER)
PWR	POWER
EH	ELECTRIC HEAT
KIT	KITCHEN EQUIPMENT
LMTR	LARGEST MOTOR
EOP	SHOP EQUIPMENT
NEC	NATIONAL ELECTRICAL CODE
M	MAN UGS ONLY
MCB	MAIN CIRCUIT BREAKER
AWG	AMERICAN WIRE GAGE

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 REACEWAY SIZE AS NEEDED PER NEC, FOR THE LARGER SIZES OF CONDUCTORS.

	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.

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.

 TYPICAL POWER & SYSTEMS DEVICE EXISTING TO REMAIN IN PLACE.

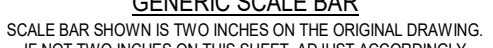
EXISTING LUMINAIRE SCHEDULED TO REMAIN IN PLACE. REFER TO L
 SCHEDULE FOR ADDITIONAL INFORMATION.

ALL DEVICES SCHEDULED TO REMAIN ARE MARKED WITH THE SAME LINETYPE & LINEWEIGHT AS SYMBOLS ABOVE. REFER TO FLOOR PLAN DRAWINGS FOR ADDITIONAL INFORMATION.

REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS MAY APPLY TO THIS PARTICULAR PROJECT. ANY ADDITIONS OR OMISSIONS FROM THIS SCHEDULES DOES NOT IMPLY INCLUSION AND/OR EXCLUSION OF ANY PARTICULAR ITEM FROM THE PROJECT.

**PIONEER VALLEY TRANSIT
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185 HOLDSWORTH, AMHERST, MA
01003

**CONSTRUCTION
DOCUMENTS**



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PROJ. No.	448715		
DWG. No.			

E001

DEMOLITION NOTES:

1. REMOVE (3) SPARE 20A/1P CIRCUIT BREAKERS IN EXISTING PANELBOARD 'J' IN SPACES #50, #52, & #54 TO MAKE ROOM FOR NEW BREAKER REQUIRED FOR THE LIFT.

CONSTRUCTION NOTES:

1. PROVIDE NEW 35A/3P CIRCUIT BREAKER TO BE USED FOR THE NEW LIFT ELECTRICAL CONNECTION IN SPACES MADE AVAILABLE BY REMOVING EXISTING SPARES. EXISTING PANELBOARD IS EATON & COMPATIBLE BREAKERS ARE PDG2 TYPE MATCHING EXISTING AIC RATING.



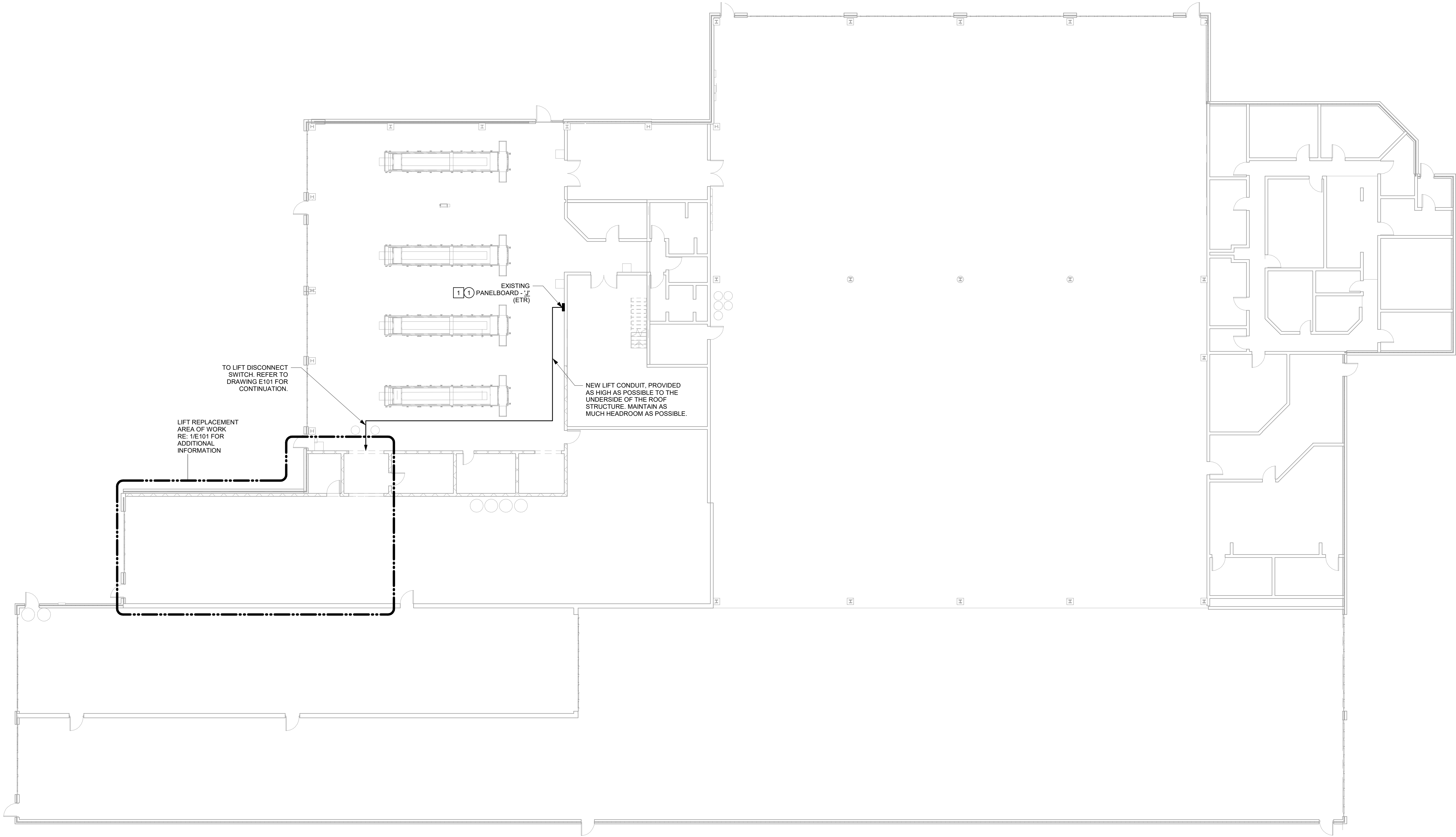
PIONEER VALLEY TRANSIT
AUTHORITY
UMASS TRANSIT FACILITY
185 HOLDSWORTH, AMHERST, MA
01003

HYDRAULIC LIFT
REPLACEMENT

CONSTRUCTION
DOCUMENTS



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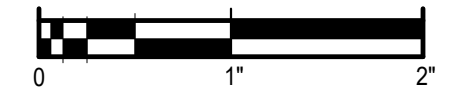


1 OVERALL FACILITY FLOOR PLAN - ELECTRICAL WORK
SCALE: 3/32" = 1'-0"

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NO.	ISSUED FOR BID	REVISIONS	DATE
1	ISSUED FOR BID		03/13/2026

OVERALL FACILITY FLOOR
PLAN - ELECTRICAL WORK



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

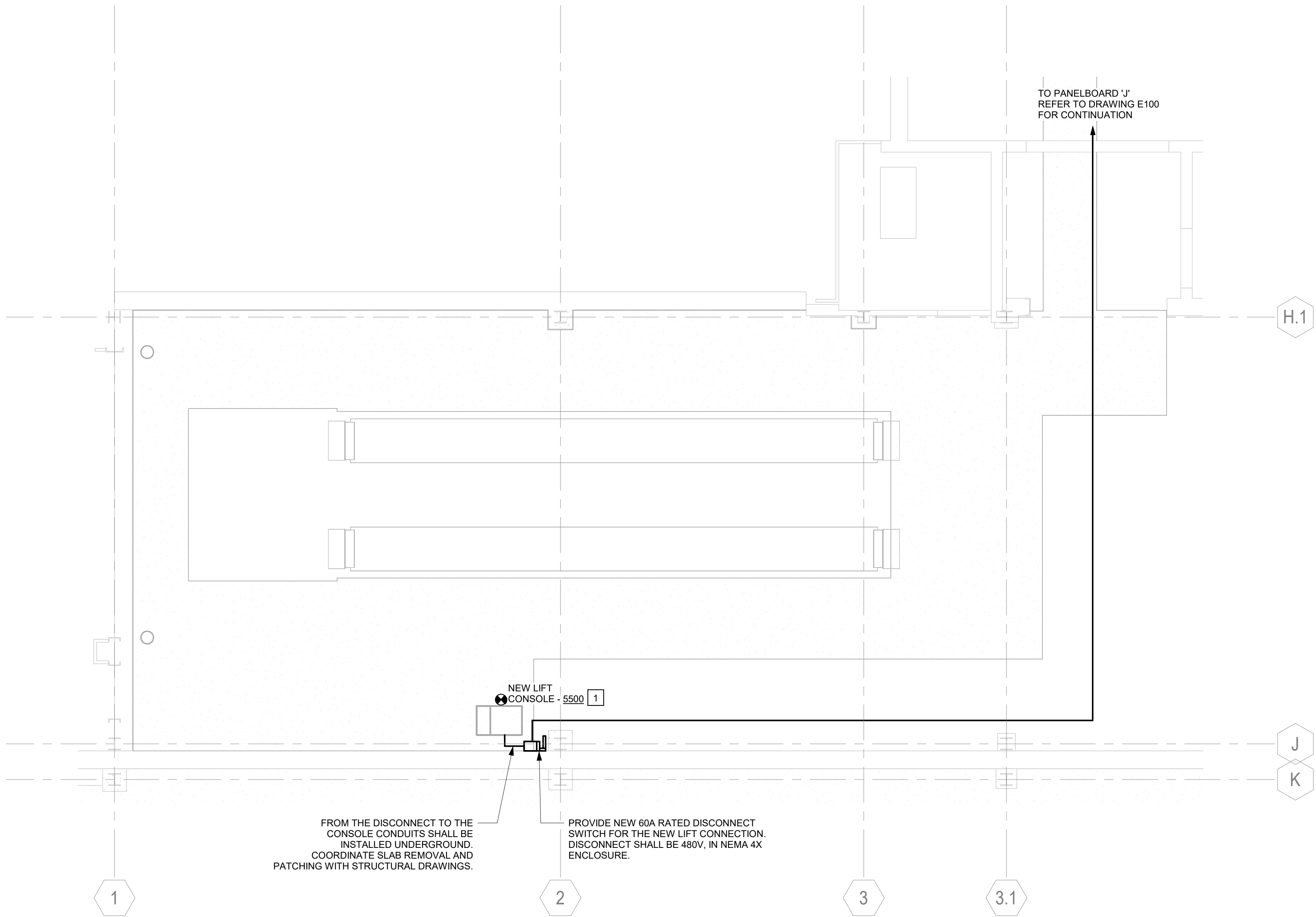
DATE	03/13/2026		
SCALE	As indicated		
DWN.	NEB	CHK.	JFW
PROJ. No.	448715		
DWG. No.			

E100



A. ALL REQUIRED ELECTRICAL INTERCONNECTIONS BETWEEN THE LIFT CONSOLE & LIFT SHALL BE PROVIDED BY LIFT EQUIPMENT INSTALLER. COORDINATE NECESSARY STUB-UP LOCATIONS INTO THE CONSOLE.

1. PROVIDE FEEDER FOR THE PROPOSED LIFT AND CONNECT TO EXISTING PANELBOARD J. REFER TO E501 FOR ADDITIONAL INFORMATION. PART OF THE FEEDER SHALL BE INSTALLED UNDER THE NEW SLAB AND STUBBED UP INTO THE BOTTOM. COORDINATE STUB-UP LOCATION WITH FINAL LIFT CONSOLE LOCATION. ALL ELECTRICAL RACEWAYS STUBBED UP INTO THE LIFT CONSOLE SHALL BE PROVIDED WITH SEAL-OFF FITTINGS AS THE FIRST FITTING ABOVE FINISHED FLOOR AND AS REQUIRED BY THE LIFT MANUFACTURER.



1 BUS WASH POWER PLAN

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BUS WASH POWER PLAN



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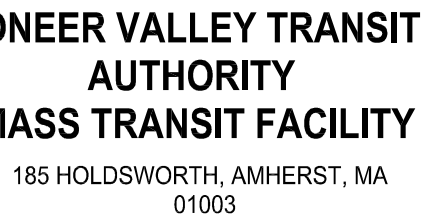
DATE 03/13/2021

SCALE As indicated

DWN. NI

PROJ. No. 44871

DING, No



**CONSTRUCTION
DOCUMENTS**

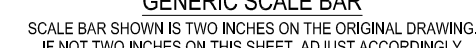


MAINTENANCE SHOP CONNECTION SCHEDULE NOTES:

1. EXTEND FEEDERS FROM CONSOLE TO LIFT EQUIPMENT.
2. PROVIDE NEMA 4X DISCONNECT SWITCH.

PROVIDE NEW
CIRCUIT BREAKER

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E501