

<b>Project</b>	Steamboat Base Village Redevelopment	<b>Date</b>	08/04/2021
<b>Project Location</b>	Steamboat, Colorado	<b>Architect's Project Number</b>	03.7835.000
<b>Owner/Client</b>	Alterra Mountain Company / East West Partners	<b>File</b>	6BL <b>This is page</b> 1 of
<b>To</b>	Saunders Construction Inc.	<b>Attention</b>	Bryan Sculthorpe
<b>Address</b>	86 Inverness Place North		
<b>City</b>	Englewood	<b>State</b>	CO <b>Zip Code</b> 80112
<b>Delivered via:</b>	<input type="checkbox"/> <b>Messenger</b> <input type="checkbox"/> <b>Hand carried</b> <input type="checkbox"/> <b>Facsimile</b> <input type="checkbox"/> <b>Express</b> <input type="checkbox"/> <b>Pick-up</b> <input type="checkbox"/> <b>E-mail Address</b> <input type="checkbox"/> <b>Mail</b> <input type="checkbox"/> <b>UPS</b> <input checked="" type="checkbox"/> <b>Website Address</b> BIM360		

**This Bulletin Conveys to Contractor** (Check one of the following five choices.):

- ☐ **Architect's Authorization for Minor Changes**  
Architect recommends modifications to the Work as described below.
- ☐ **Architect's Clarification / Supplemental Instructions** (Use this Bulletin form in place of *Architect's Supplemental Instructions* form.)  
Contractor shall carry out the Work in accordance with the following supplemental instructions.
- ☐ **Architect's Confirmation of a Field Order** (Use this Bulletin form in place of a *Field Order* form.)  
This confirms Architect's verbal instructions to (individual's name) \_\_\_\_\_ on (date) \_\_\_\_\_, as described below.  
Note: The above three choices are each subject to the following terms: The change(s), clarification(s) and/or confirmation(s) described below is/are issued in accordance with the Contract Documents, without change in Contract Sum and/or Time.
- ☒ **Architect's Request for Contractor's Proposal** (Use this Bulletin form in place of an *Estimate Request* form.)  
Please submit an itemized proposal for changes in the Contract Sum and/or Time for proposed modifications to the Contract Documents described herein. Submit proposal **within** \_\_\_\_\_ **days** or notify the Architect in writing of the date on which you anticipate submitting your proposal. This is not a Change Order or a Construction Change Directive or a direction to proceed with the Work described in the proposed modifications.
- ☐ **Other:** As described below.

<b>Attachments</b>	BP3 Goldwalk - BULLETIN 05		
<b>Requested by</b>	<input checked="" type="checkbox"/> Architect <input type="checkbox"/> Owner <input type="checkbox"/> Contractor <input type="checkbox"/> Other (specify): _____		
<b>Issued by Gensler by</b>	Juan Padilla	<b>Date Signed</b>	08/04/21
<b>Issued by Owner by</b>		<b>Date Signed</b>	
<input type="checkbox"/> Required; Please return signed copy to Gensler <input type="checkbox"/> Not Required			
<b>Accepted by Contractor by</b>		<b>Date Signed</b>	
<input type="checkbox"/> Required; Please return signed copy to Gensler <input type="checkbox"/> Not Required			
<b>Distribution</b>	Bryan Sculthorpe Adam Cleveland Mike Schmidt Gregg Riker Adam Ambro Abraham Chen Matt Edwards Alex Jackson	Greg Morgan Ryan Stone John Albright Jon Gambrell Erick Griepentrog Stephen Carrolla Matt Oboyle Eric McTee	
<b>Prepared by Gensler by</b>	Juan Padilla	<b>Date Signed</b>	08/04/21

**Instructions / Description / References / Dates**

## Description of Changes

### General:

This bulletin addresses the following:

Updated underground MEP

Updated steel

Added slab step plan

### Electrical Drawing Changes:

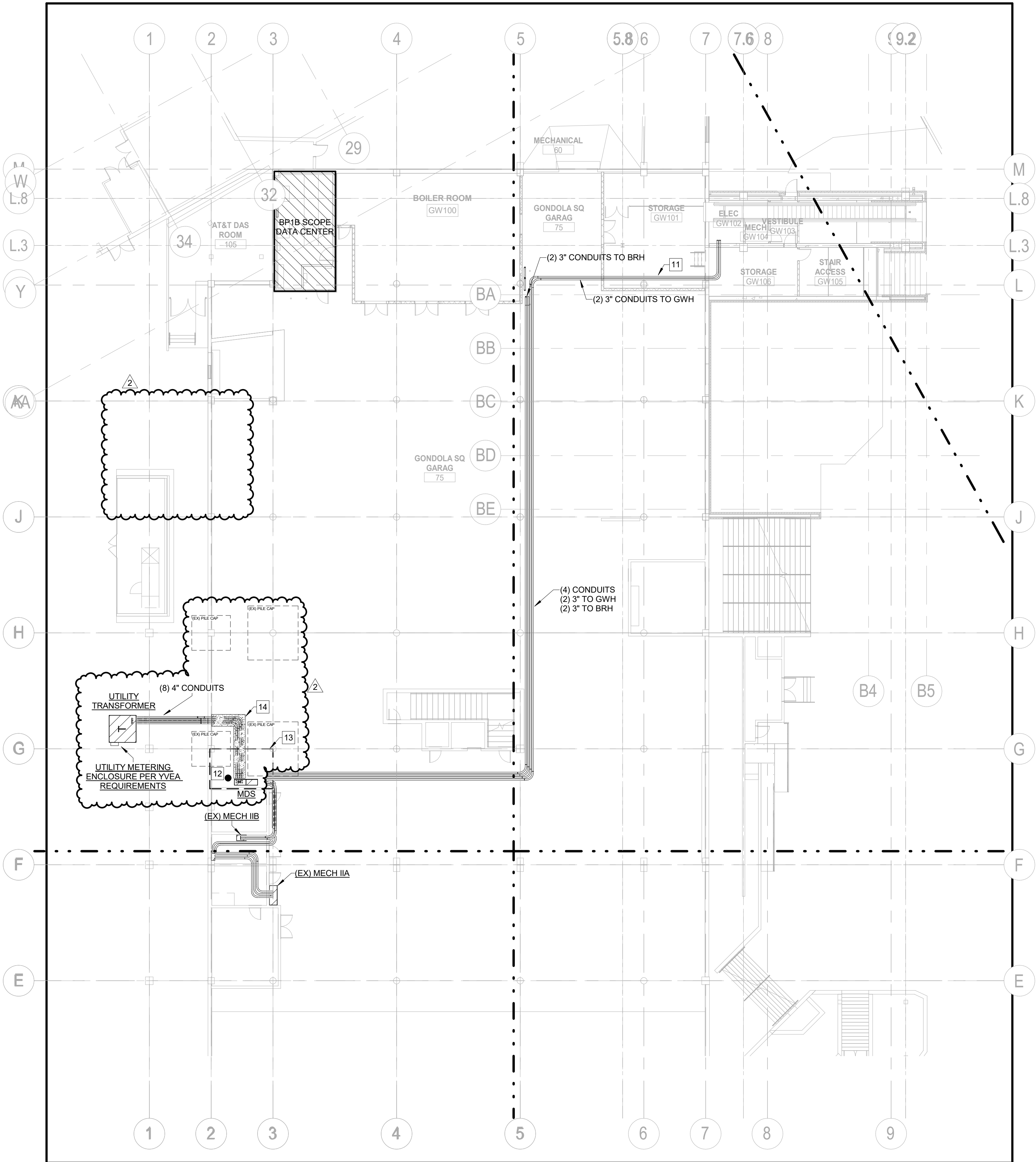
1. 1B-E0.001
  - a. Modified location of new Utility transformer associated with gold walk and Gondola Square loads.
  - b. Modified electrical short circuit values associated with secondary feeder distance reduction.
  - c. Added existing pile caps for reference as reviewed on existing building drawings.
  - d. Added clarification notes to general notes and keynotes for installation of secondary duct bank to be routed under foundation and into electrical gear per coordination with General Contractor.
2. 1B-E8.000
  - a. Added electrical detail for underground concrete encased duct bank from secondary of transformer to electrical service entrance switchboard.

(EX) MECH IIA									
LOCATION: GONDOLA SQ GARAGE...					BUS: 800 A				
SUPPLY FROM: MDS					MAIN: 800 A - MCB				
LOADS SUMMARY	EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE	Load
BP4D: EXISTING LOADS									
EXISTING METERED LOAD	245680								245680 VA 296 A
ATS-DC		168	2700	63090	42660				108618 VA 131 A
DEMOLISHED LOAD (SUBTRACTED)									0 VA --
(EX) GH - BOILER ROOM	-37835								-37835 VA -46 A
BP4D: EXISTING + NEW LOADS									0 VA --
(E) LOC DEDUCT	32513	906	6680	45476		3840	8482		98649 VA 119 A
BP4D: DEDUCT FOR LOAD DUPLICATION									0 VA --
(E) LOC DEDUCT	-32513								-32513 VA -39 A
CONNECTED TOTALS (V-A)	207845	1074	9380	108566	42660	3840	8482		382599 VA 460 A
DIVERSITY FACTORS	125%	100%	100%	105%	100%	90%	100%		
DEMAND TOTAL (V-A)	259806	1074	9380	114261	42660	3456	8482		439965 VA 529 A

- NOTE:**
- LOADS INDICATED AS NEGATIVE VALUES ARE LOADS THAT ARE BEING DEMOLISHED. THIS EQUIPMENT WAS METERED BY THE CONSTRUCTION TEAM FOR 30 DAYS FROM 3/18/21 THROUGH 4/23/21 DURING NORMAL OCCUPANCY OF THE BUILDING. LOADS AT THE BOTTOM OF THE LOAD SUMMARY THAT ARE LISTED AS DEDUCTS ARE QUANTIZED TO ELIMINATE LOAD DUPLICATION ON METERED DOWNSTREAM EQUIPMENT.
  - NO LOAD IS BEING ADDED TO MECH IIA AS A PART OF THIS BID PACKAGE. EXISTING MECH IIA SHALL BE RE-FED FROM THE NEW SERVICE ENTRANCE SWITCHBOARD 'MDS'. LOADS OTHER THAN EXISTING ARE INDICATED ABOVE FROM ATS-DC WHICH IS BP1B SCOPE ADDED PRIOR TO ISSUANCE OF THIS BID PACKAGE AFTER UTILITY METERING OCCURRED.
  - EXISTING UTILITY METER DATA IS OBTAINED FROM THE UTILITY FOR 1/18/20 THROUGH 1/18/21. THE EXISTING LOAD ABOVE IS THE PEAK DEMAND OVER THIS PERIOD.

## 1 LOAD SUMMARY

SCALE: NONE



## (EX) MECH IIB

LOCATION: ELECTRICAL 43					BUS: 600 A				
SUPPLY FROM: MDS					MAIN: 600 A - MCB				
LOADS SUMMARY	EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE	Load
BP4D: EXISTING LOADS									
EXISTING METERED LOAD	150737								0 VA --
150737 VA 181 A									
DEMOLISHED LOAD (SUBTRACTED)									0 VA --
(EX) SKISIXNW - SKI SCHOOL	-58282								-58282 VA -70 A
BP4D: EXISTING + NEW LOADS									0 VA --
(E) T-SK	13967	6231	35820	8920	13420	13440	8094		102091 VA 123 A
BP4D: DEDUCT FOR DUPLICATION									0 VA --
(E) SK DEDUCT	-13967								-13967 VA -17 A
CONNECTED TOTALS (V-A)	92455	6231	35820	8920	13420	13440	8094		180579 VA 217 A
DIVERSITY FACTORS	125%	100%	64%	106%	100%	65%	100%		
DEMAND TOTAL (V-A)	115569	6231	22910	9460	13420	8736	8094		186619 VA 224 A

- NOTE:**
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  - EXISTING UTILITY METER DATA IS OBTAINED FROM THE UTILITY FOR 1/18/20 THROUGH 1/18/21. THE EXISTING LOAD ABOVE IS THE PEAK DEMAND OVER THIS PERIOD.

## SHORT CIRCUIT STUDY

KEY	AVAILABLE AMPS
1	23,100
2	22,193
3	19,772
4	19,867
5	14,301
6	10,656
7	13,023
8	NOT USED
9	NOT USED

TRANSFORMERS (150KVA OR LESS)	
BASED ON INFINITE IMPEDANCE ON THE PRIMARY.	
THE AVAILABLE FAULT CURRENTS ON THE SECONDARY	
OF A TRANSFORMER IS AS FOLLOWS	
15KVA	1343
30KVA	1665
45KVA	3903
75KVA	7330
112.5KVA	9184
150KVA	13787

## MDS

LOCATION: SUPPLY FROM: UTILITY TRANSFORMER					VOLTAGE: 480/277 Wye					BUS: 2000 A				
					SCCR: RE-ONE-LINE					MAIN: 2000 A - MCB				
LOADS SUMMARY	EXIST	LTG	RECPT	MOTOR	MISC.	KITCHEN	ELECTRIC HEAT	EV CHARGE	Load					
BP4D: EXISTING + NEW LOADS														
(EX) MECH IIA	207845	1074	9380	108566	42660	3840	8482		382599 VA 460 A					
(EX) MECH IIB	92455	6231	35820	8920	13420	13440	8094		180579 VA 217 A					
BP3: GOLD WALK - NEW LOADS									--					
BRH		378	1080	213528	1750		20785		237521 VA 286 A					
GW	55372	7341	14080	44447	1920		16320		139480 VA 168 A					
CONNECTED TOTALS (V-A)	355672	15024	60360	375461	59750	17280	53681		940180 VA 1131 A					
DIVERSITY FACTORS	125%	100%	58%	107%	100%	65%	100%							
DEMAND TOTAL (V-A)	444690	15024	35180	401649	69750	11232	53681		1024151 VA 1232 A					

ME FEEDER TABLE									
COPPER					ALUMINUM				
BK/RCPD	TAG	SETS	FEEDER/PIPE [3W]		BK/RCPD	TAG	SETS	FEEDER/PIPE [4W]	
20	F20	1	(3#12,#12G) 3/4"C	-	FN20	1	(4#12,#12G) 3/4"C	-	-
30	F30	1	(3#10,#10G) 3/4"C	-	FN30	1	(4#10,#10G) 3/4"C	-	-
40	F40	1	(3#8,#8G) 3/4"C	-	FN40	1	(4#8,#8G) 3/4"C	-	-
50	F50	1	(3#6,#6G) 3/4"C	-	FN50	1	(4#6,#6G) 3/4"C	-	-
60	F60	1	(3#4,#4G) 1"C	-	FN60	1	(4#4,#4G) 1"C	-	-
70	F70	1	(3#4,#4G) 1-1/4"C	-	FN70	1	(4#4,#4G) 1-1/4"C	-	-
80	F80	1	(3#4,#4G) 1-1/4"C	-	FN80	1	(4#4,#4G) 1-1/4"C	-	-
90	F90	1	(3#3,#3G) 1-1/4"C	-	FN90	1	(4#3,#3G) 1-1/4"C	-	-
100	F100	1	(3#3,#3G) 1-1/4"C	-	FN100	1	(4#3,#3G) 1-1/2"C	-	-
110	F110	1	(3#2,#2G) 1-1/2"C	-	FN110	1	(4#3,#3G) 1-1/2"C	-	-
125	F125	1	(3#1/2,#1/2G) 1-1/2"C	-	FN125	1	(4#1/2,#1/2G) 2"C	-	-
150	F150	1	(3#1/2,#1/2G) 1-1/2"C	-	FN150	1	(4#1/2,#1/2G) 2"C	-	-
175	F175	1	(3#20,#20G) 2"C	-	FN175	1	(4#20,#20G) 2"C	-	-
200	F200	1	(3#20,#20G) 2-1/2"C	-	FN200	1	(4#20,#20G) 2-1/2"C	-	-
225	F225	1	(3#20,#20G) 2-1/2"C	-	FN225	1	(4#20,#20G) 2-1/2"C	-	-
250	F250	1	(3#20,#20G) 2-1/2"C	-	FN250	1	(4#20,#20G) 3"C	-	-
250	-	-	-	-	FN250A	1	(4#20,#20G) 3"C	-	-
250	-	-	-	-	FD250A	1	(4#20,#20G) 3"C	-	-
300	F300	1	(3#30,#30G) 3"C	-	FN300	1	(4#30,#30G) 3"C	-	-
350	F350	1	(3#30,#30G) 3-1/2"C	-	FN350	1	(4#30,#30G) 3-1/2"C	-	-
400	F400	2	(3#30,#30G) 2-1/2"C	-	FN400	2	(4#30,#30G) 2-1/2"C	-	-
400	-	-	-	-	FN400A	2	(4#30,#30G) 2-1/2"C	-	-
400	-	-	-	-	FD400A	2	(4#30,#30G) 2-1/2"C	-	-
400	F400B	1	(3#600,#30G) 4"C	-	FN400B	1	(4#600,#30G) 4"C	-	-
400	-	-	-	-	FD400A	2	(4#30,#10G) 2-1/2"C	-	-
450	F450	2	(3#40,#20G) 2-1/2"C	-	FN450	2	(4#40,#20G) 2-1/2"C	-	-
500	F500	2	(3#250,#20G) 2-1/2"C	-	FN500	2	(4#250,#20G) 3"C	-	-
500	-	-	-	-	FN500A	2	(4#250,#10G) 3"C	-	-
500	-	-	-	-	FD500A	2	(4#250,#10G) 3"C	-	-
600	F600	2	(3#350,#1G) 3"C	-	FN600	2	(4#350,#1G) 3"C	-	-
700	F700	2	(3#600,#10G) 3-1/2"C	-	FN700	2	(4#600,#10G) 3-1/2"C	-	-
750	F750	2	(3#500,#10G) 3"C	-	FN750	2	(4#500,#10G) 3-1/2"C	-	-
800	F800	3	(3#300,#10G) 3"C	-	FN800	3	(4#300,#10G) 3"C	-	-
800	-	-	-	-	FN800A	3	(4#300,#20G) 3"C	-	-
800	F800B	2	(3#600,#10G) 3-1/2"C	-	FN800B	2	(4#600,#10G) 4"C	-	-
800	-	-	-	-	FD800A	3	(4#300,#20G) 3"C	-	-

NOTES:

ALL CONDUCTORS ARE WITH THINWIRE WIRE WITH 75DEG TERMINATIONS.

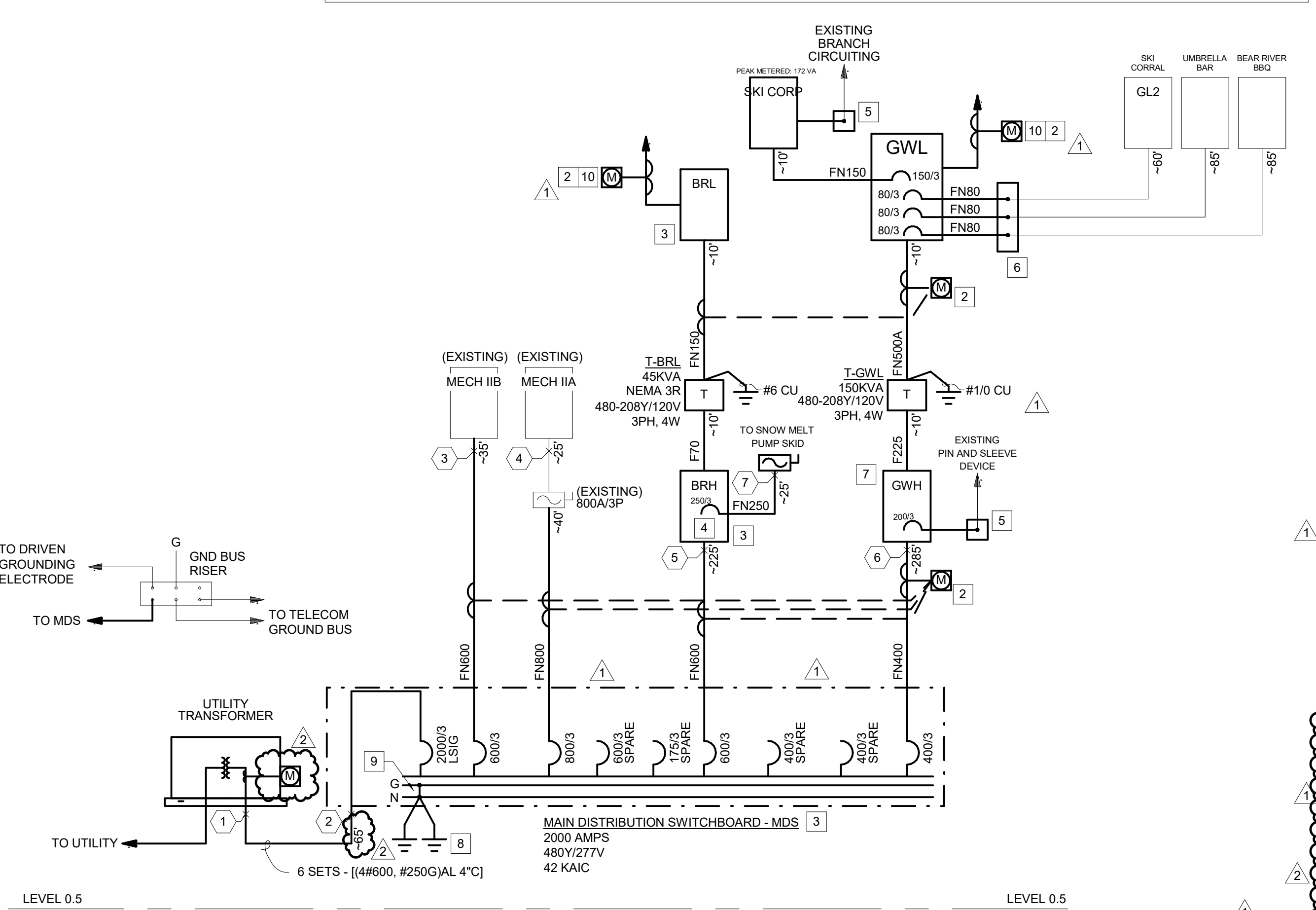
ALL ALUMINUM FEEDERS SHALL INCLUDE COPPER EQUIPMENT GROUND CONDUCTORS.

ALL ALUMINUM FEEDERS TO UTILIZE COMPRESSION TERMINATIONS.

ALL FEEDERS AND BRANCH CIRCUITS TO MECHANICAL AND VIBRATING EQUIPMENT SHALL BE COPPER CONDUCTORS

ALL EMERGENCY FEEDERS TO BE COPPER CONDUCTORS.

FEEDERS STARTING WITH "FD" CONTAIN DOUBLE NEUTRAL.



## 1 ONE-LINE DIAGRAM AND FEEDER TABLE

SCALE: NONE

NEW SCOPE ASSOCIATED WITH BP3 GOLD WALK  
EXISTING SCOPE TO BE RE-FED

## GENERAL NOTES:

- ALL FEEDERS AND TERMINATIONS SHALL BE COPPER 75 DEGREE RATED.
- FEEDER LENGTHS ARE INDICATED FOR CALCULATION PURPOSES ONLY. THIS DRAWING IS NOT TO SCALE. FEEDER LENGTHS MUST BE CONFIRMED WITH THE CONTRACTOR.
- ALL CONDUIT RUNS SHALL BE RAN PERPENDICULAR AND PARALLEL TO COLUMNS AND BEAMS. ALL EXPOSED CONDUIT RUNS SHALL BE COORDINATED WITH ARCHITECT PRIOR TO INSTALLATION.
- FOR CALCULATION PURPOSES THE FOLLOWING TRANSFORMER (2015 DOE) IMPEDANCES AND MAXIMUM SHORT CIRCUIT VALUES WERE USED:  
15 KVA-3.1%Z, ISC-1,343A  
30 KVA-2.5%Z, ISC-1,665A  
45 KVA-3.2%Z, ISC-3,303A  
75 KVA-2.8%Z, ISC-7,303A  
112.5 KVA-4.5%Z, ISC-9,180A
- PROVIDE FULL BUSSING FOR ALL SPACES INDICATED ON PANEL BOARDS.
- CONNECT ALL TRANSFORMER GROUNDING ELECTRODES TO GROUND BUS RISER AND COLD WATER PIPE.
- REFER TO DETAIL SHEET 1B-E001 FOR PANELBOARD AND SWITCHBOARD NAMEPLATE DETAILS.
- ALL NEW PANELS INDICATED HERE SHALL HAVE INTEGRAL SURGE PROTECTION DEVICES LOCATED INTERNAL TO PANEL SURGE PROTECTION DEVICE TO HAVE ALL MODES OF PROTECTION.
- CONTRACTOR IS RESPONSIBLE FOR X-RAY OF EXISTING SLAB PRIOR TO CUTTING AND SHALL SUBMIT UNDERGROUND CONDUIT SHOP DRAWINGS FOR REVIEW AND APPROVAL PRIOR TO INSTALL.
- REFER TO SPECIFICATIONS FOR REQUIREMENTS TO NOTIFY OWNER FOR ALL UTILITY OUTAGES. CONTRACTOR SHALL CONFIRM WITH OWNER WHICH SYSTEMS CANNOT HAVE DOWN TIME AND PROVIDE TEMPORARY POWER FOR THESE SYSTEMS AS REQUIRED.
- EXISTING PILE CAPS HAVE BEEN INDICATED PER PLAN IN AREAS OF FOCUS. THESE HAVE BEEN DRAWN FOR REFERENCE ONLY AND ARE BASED ON THE ORIGINAL CONSTRUCTION DOCUMENTS FOR THIS BUILDING.

## KEYNOTES:

- NOT USED.
- PROVIDE E-GAUGE CORE METERING (OR APPROVED EQUIVALENT) FOR GOLD WALK SCOPE. FACTORY TRAINING AND MONITORING SOFTWARE TO BE INCLUDED.
- PROVIDE NEMA 3R ENCLOSURE FOR THIS ELECTRICAL DISTRIBUTION EQUIPMENT.
- PROVIDE SHUNT MAIN BREAKER TIED TO EPO. REFER TO PLANS FOR EPO LOCATION.
- INTERCEPT AND EXTEND EXISTING BRANCH CIRCUITING SERVED BY EXISTING SKI CORP PANEL TO NEW SKI CORP PANEL LOCATION IN GOLD WALK ELECTRICAL ROOM. INDIVIDUAL BRANCH CIRCUITS SHALL BE EXTENDED IN KIND TO NEW LOCATION. PROVIDE PULL BOX AS REQUIRED FOR RE-ROUTE OF CONDUIT.
- INTERCEPT AND EXTEND EXISTING FEEDERS CURRENTLY SERVICING PANELS FED FROM DEMOLITION SCOPE FEEDERS AND CONDUIT SHALL BE EXTENDED IN KIND TO NEW LOCATION. PROVIDE PULL BOX AS REQUIRED FOR RE-ROUTE OF CONDUIT TO NEW GWL PANEL FOR RE-FED.
- LOCATE MINIMUM 18 ZONE COMBINATION DIMMING/RELAY PANEL ADJACENT TO THIS PANEL.
- PROVIDE #4/0 CU GROUND CONNECTION TO BUILDING STEEL AND MAIN ELECTRICAL ROOM GROUND BUS.
- NEUTRAL GROUND BOND.
- PROVIDE METERING FOR BRANCH CIRCUITS SERVING PLUG LOAD AND LIGHTING LOAD FOR ASHRAE-90.1 SECTION 8.4.3 COMPLIANCE.
- ROUTE CONDUIT THROUGH STORAGE 101 TO CLEAR FUTURE BUILDING B.
- PROVIDE GROUND TEST WELL FOR ELECTRICAL SERVICE FEEDING GONDOLA SQUARE. REFER TO DETAIL 41B-E-8000 FOR MORE INFORMATION.
- EXISTING PIPING IN THIS AREA SHALL BE RE-ROUTED SO THAT NO PIPING IS INSTALLED ABOVE THE NEW ELECTRICAL EQUIPMENT.
- SAW CUT EXISTING CONCRETE FOR NEW SERVICE ENTRANCE DUCT BANK. PROVIDE CONCRETE ENCASED DUCT BANK FOR FEEDERS. RE-DETAIL 101B-E5.000 FOR MORE INFORMATION.



2305 Mount Werner Circle  
Steamboat Springs, CO 80487

## Gensler

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Suite 150  
Denver, CO 80202  
United States



141 9th Street  
PO Box 774943  
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12499 West Colfax Ave.  
Lakewood, CO 80215  
United States  
Tel 303.431.6100

## DESIGNWORKSHOP

1390 Lawrence Street  
Suite 100  
Denver, CO 80204  
Tel 303.623.5186

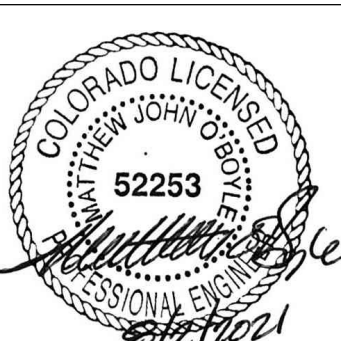


14143 Denver West Pkwy  
Suite 300  
Golden, CO  
United States  
Tel 303.421.6655

## Date Description

- 2021.05.19 BP3: GOLDWALK - ISSUE FOR BID AND PERMIT  
2021.06.25 BP3: GOLDWALK - BULLETIN 2  
2021.08.03 BP3: GOLDWALK - BULLETIN 05

## Seal / Signature



## Project Name

SSRC | BASE AREA  
IMPROVEMENTS

## Project Number

003.7835.000

## Description

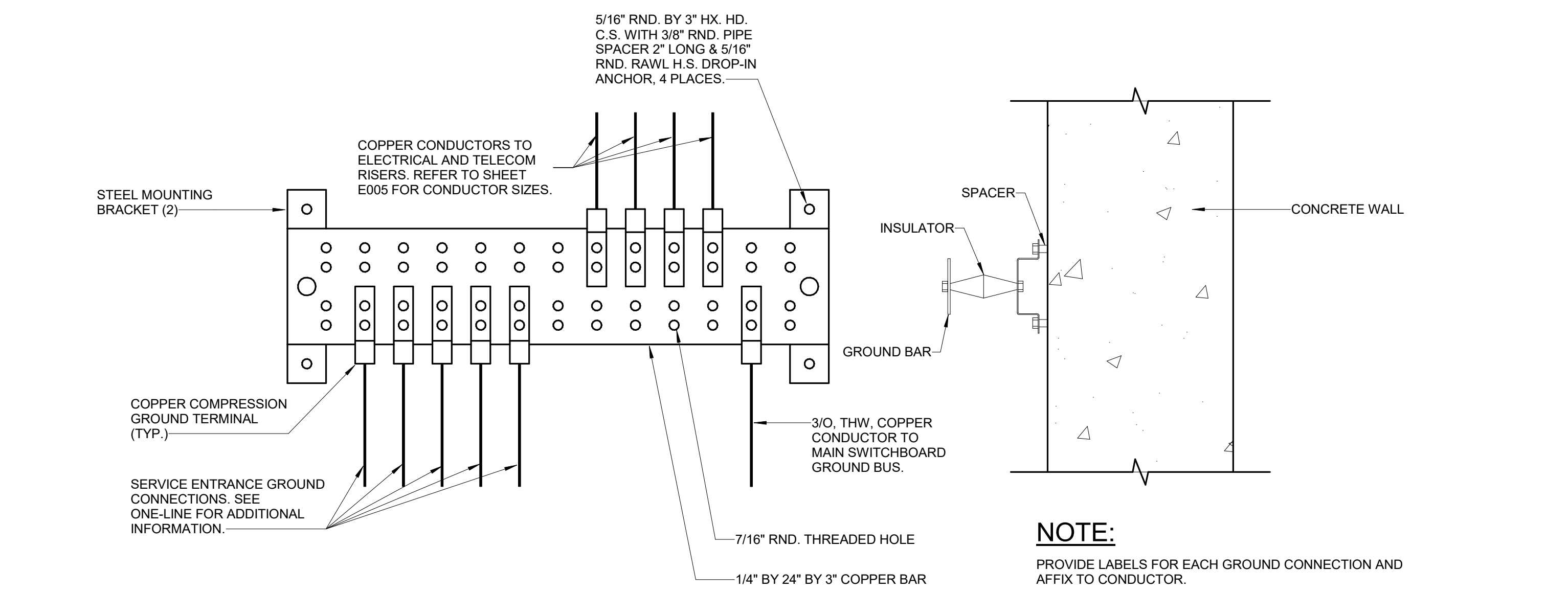
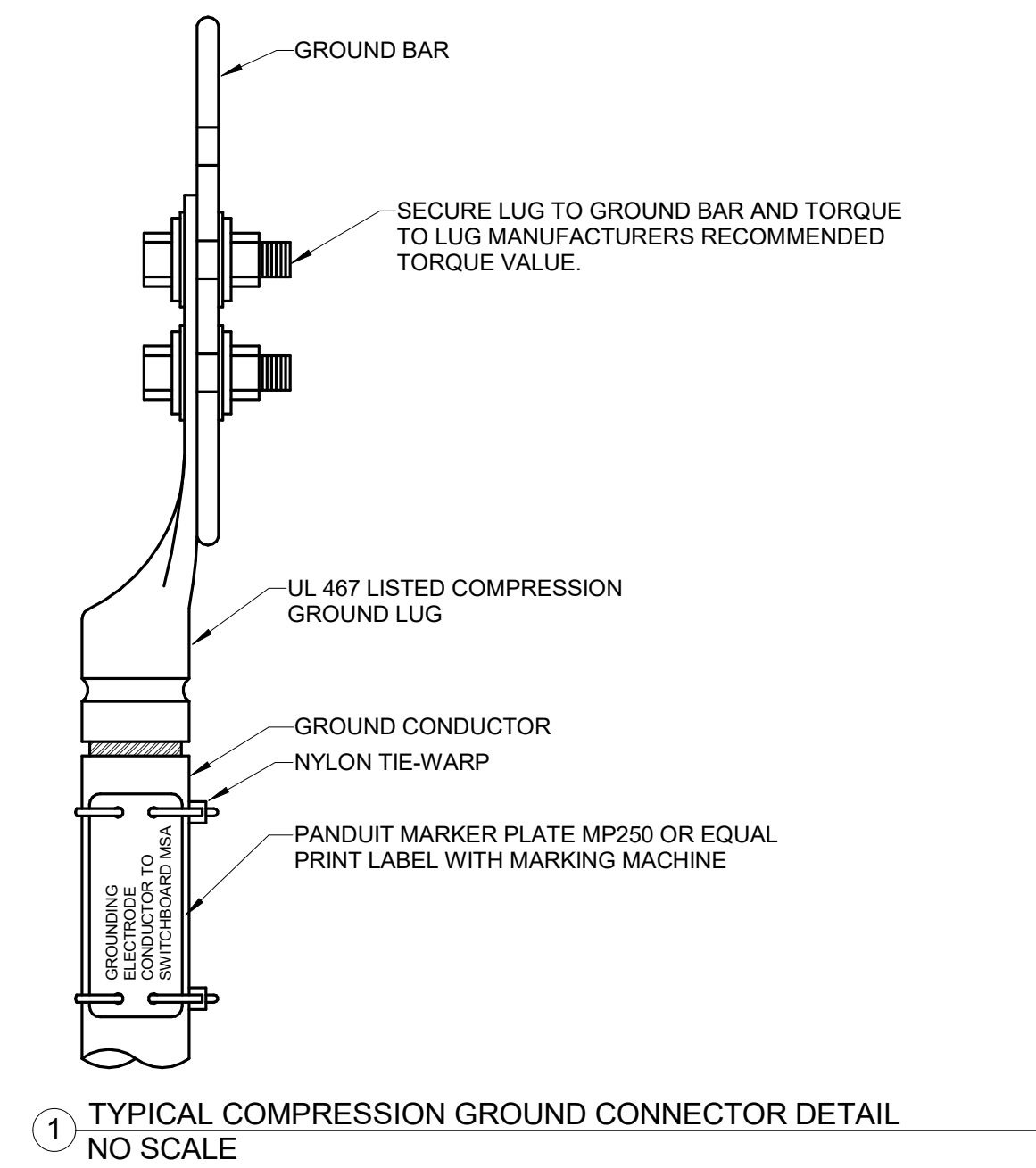
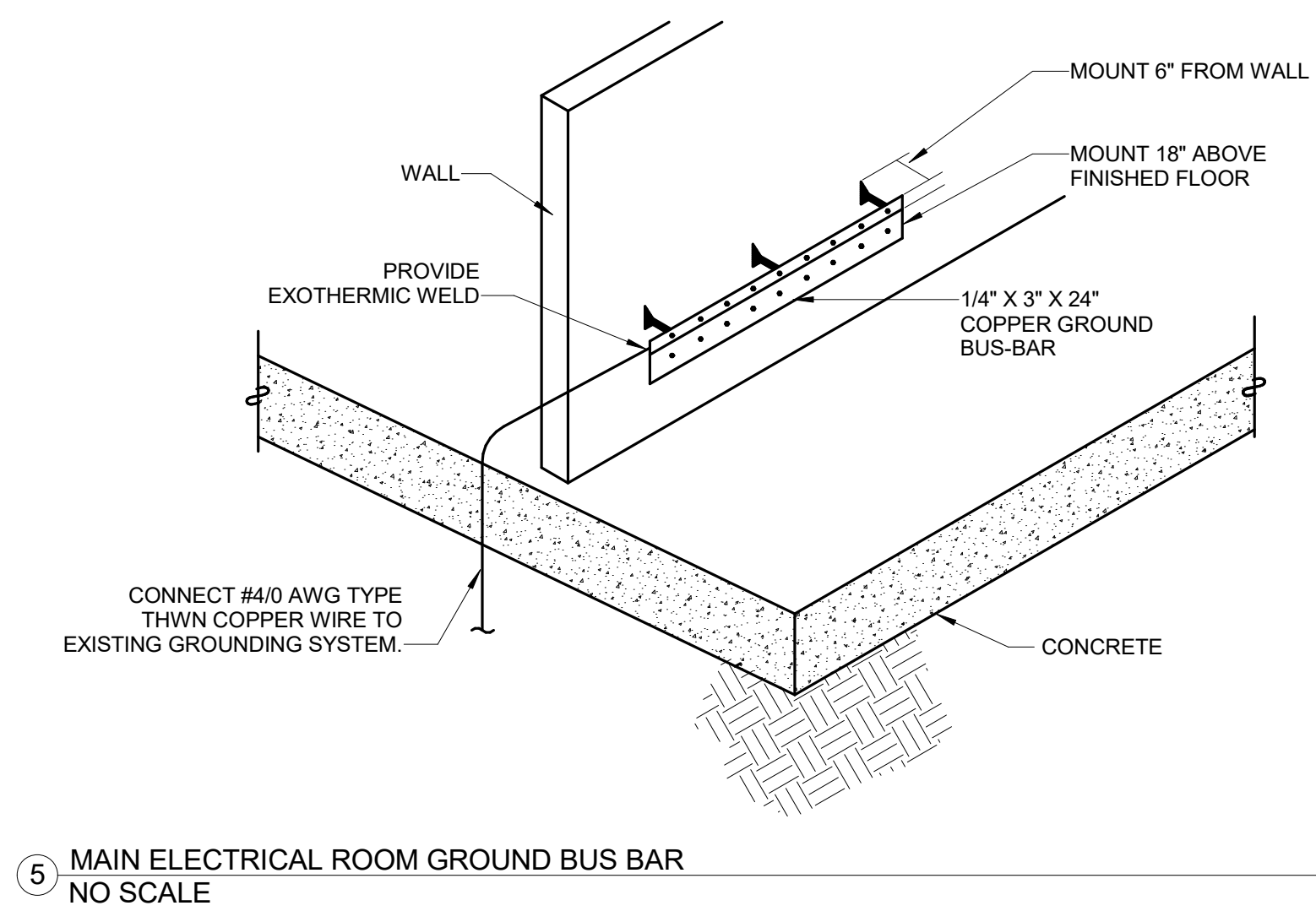
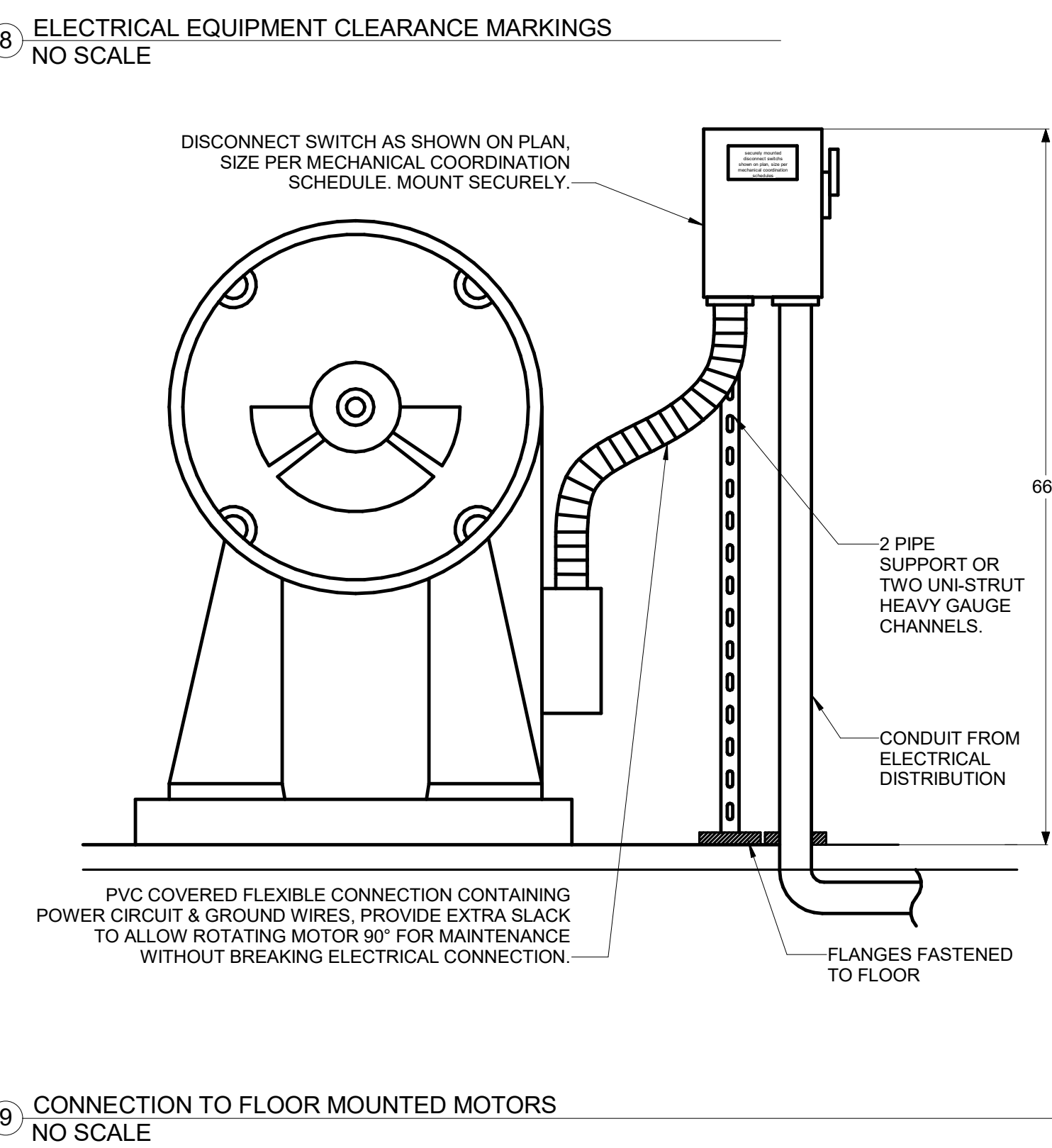
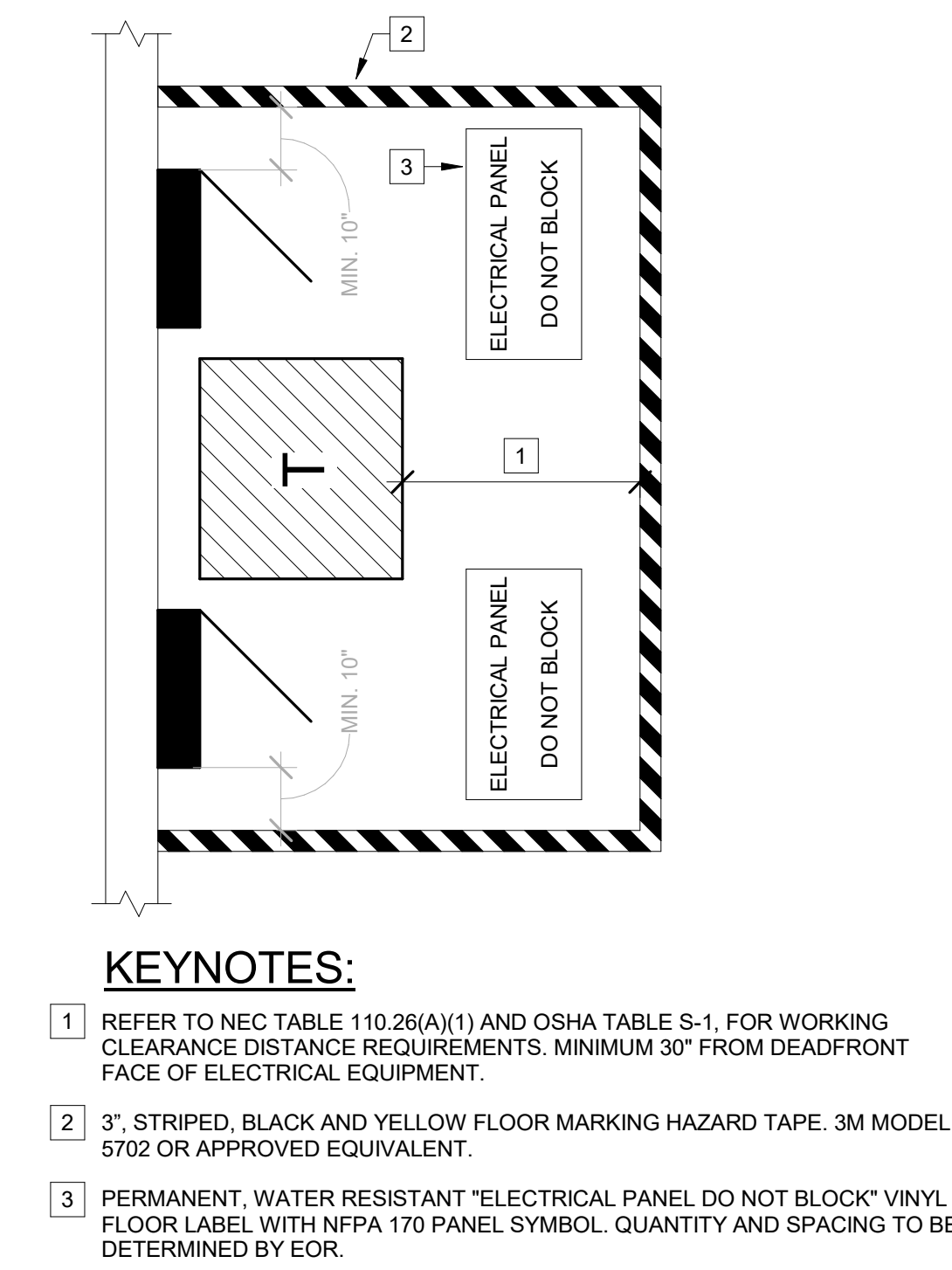
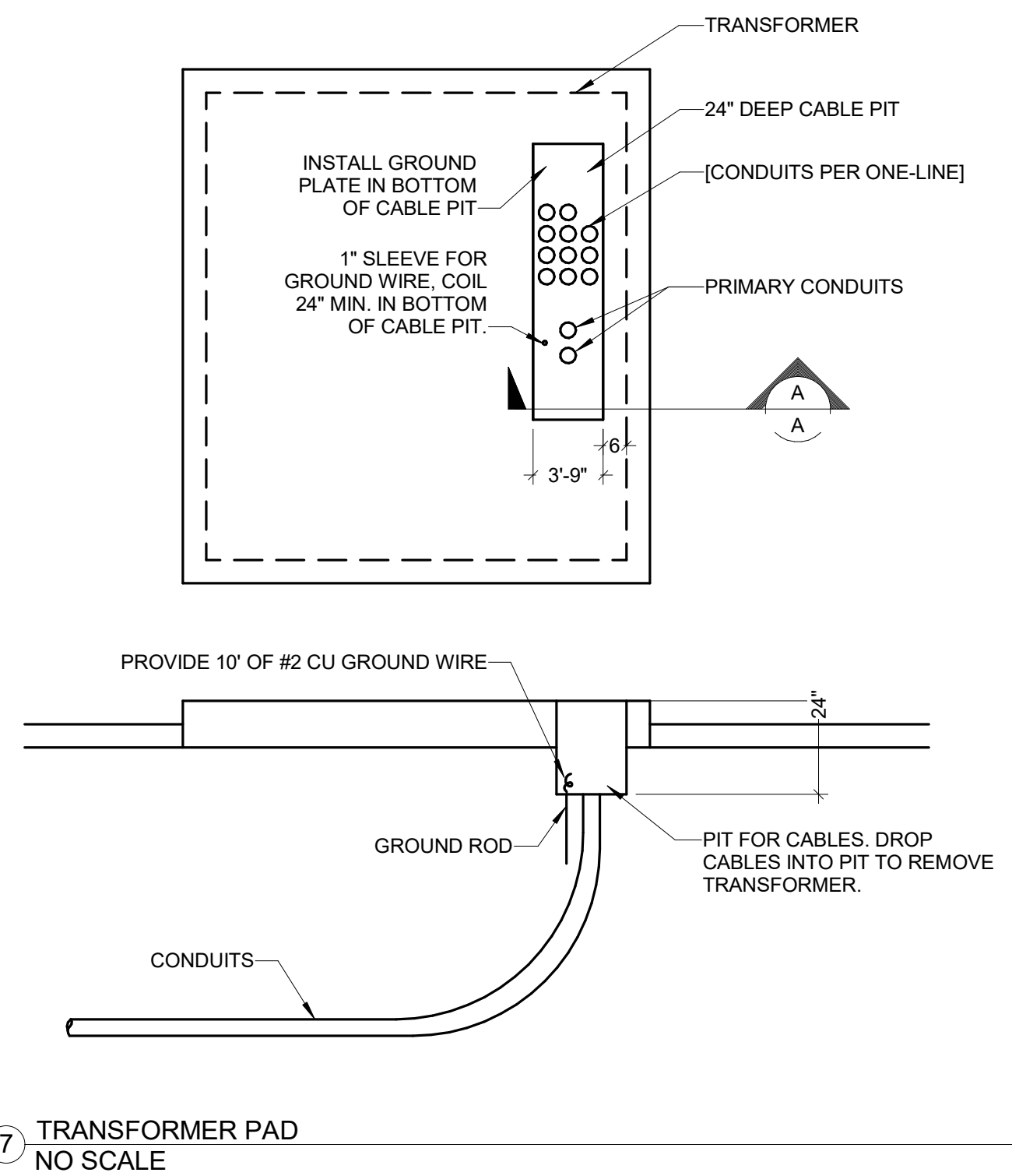
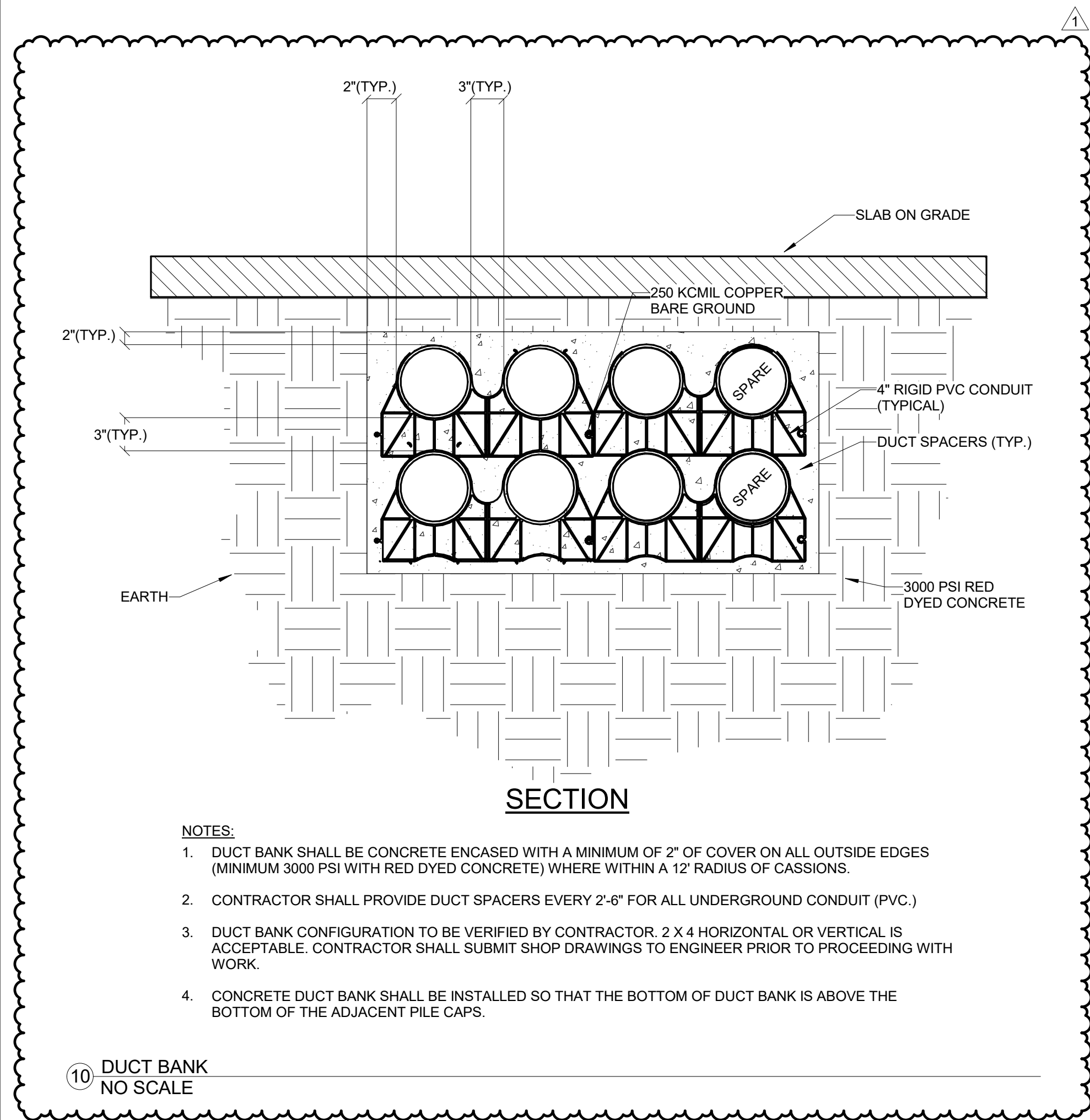
GOLD WALK - ELECTRICAL  
ONE-LINES AND LOAD SUMMARIES

## Scale

As indicated

## 1B-E0.001





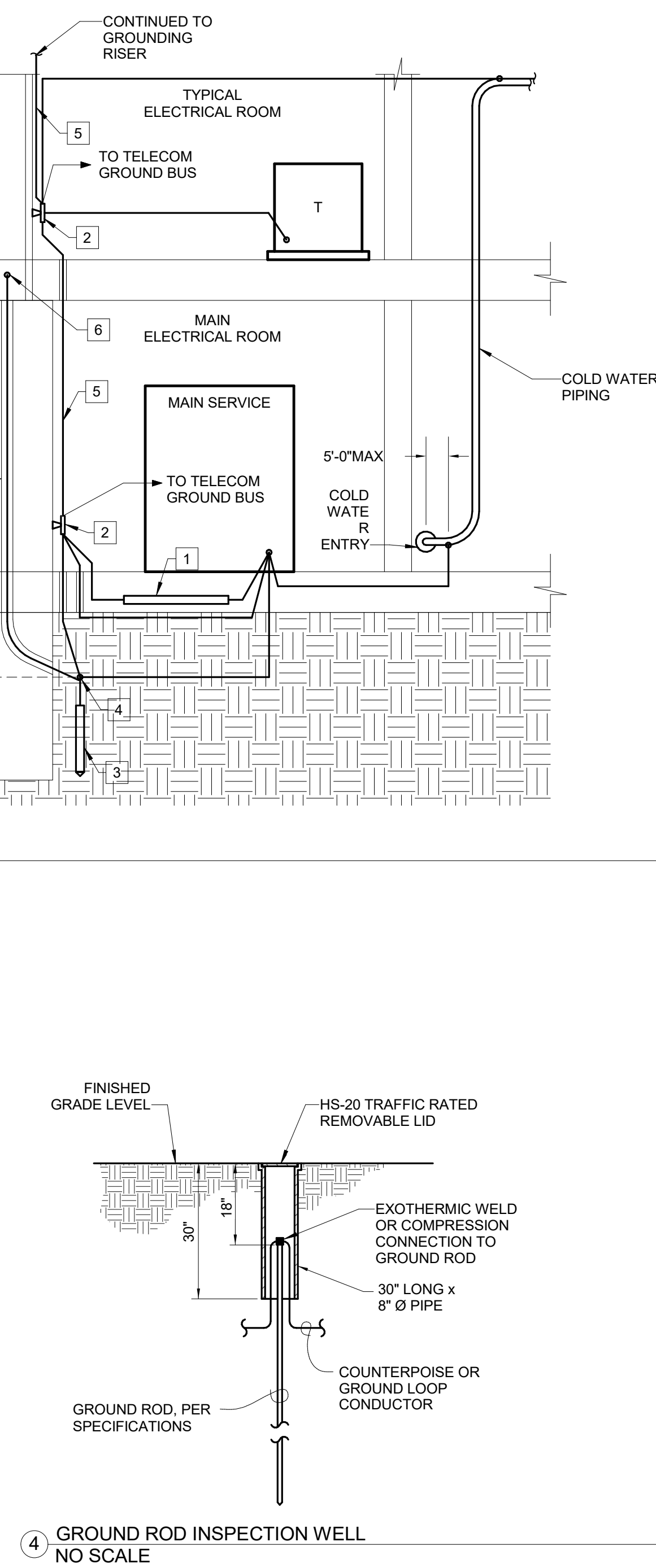
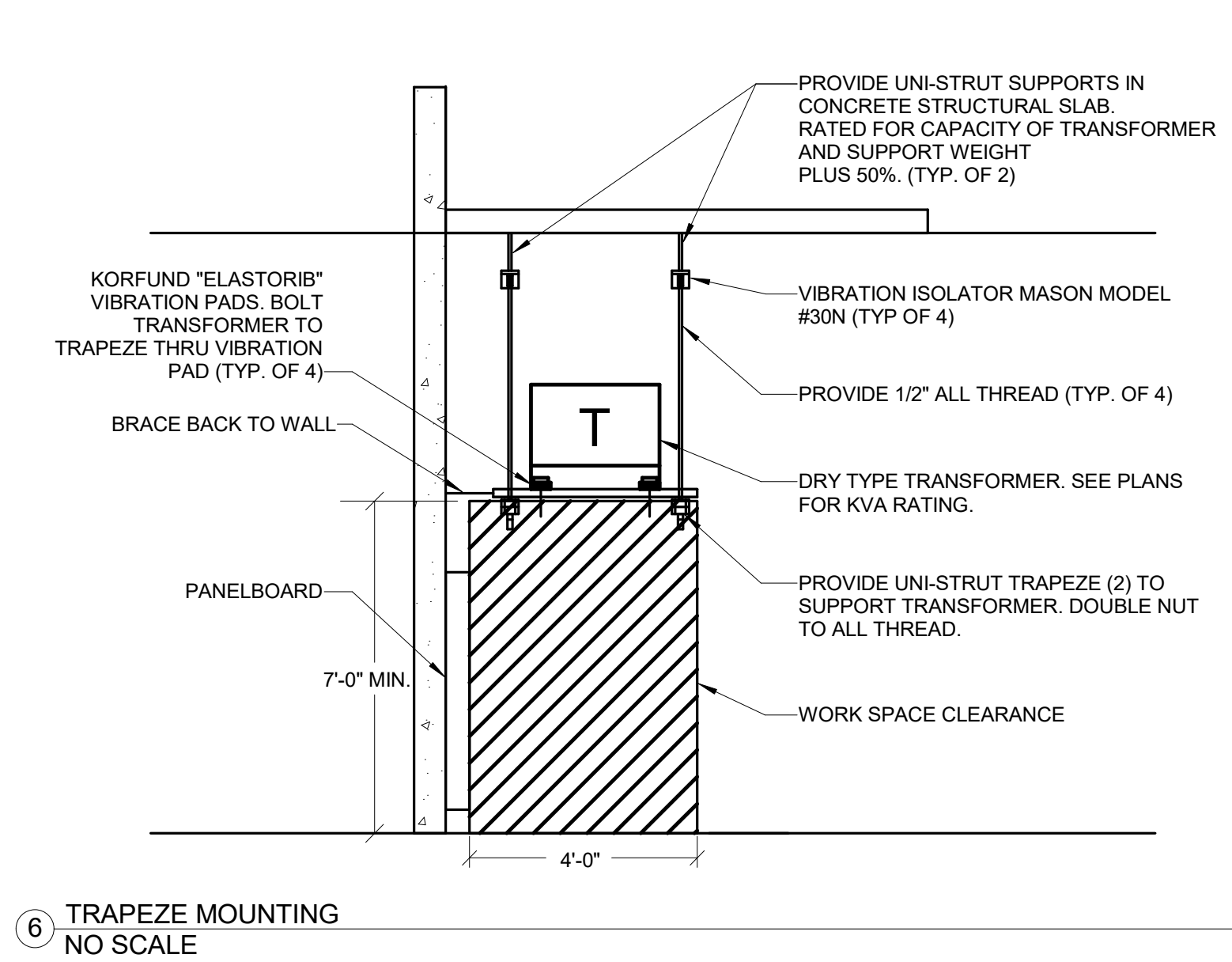
### GENERAL NOTES

- REFER TO PLAN DRAWINGS FOR QUANTITIES AND LOCATIONS
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION AND REQUIREMENTS

### KEY NOTES

- CONCRETE ENCASED ELECTRODE PER NEC 250.52
- ELECTRICAL ROOM GROUND BAR REFER TO SPECIFICATIONS. CONNECTIONS TO BE BY EXOTHERMIC WELD.
- GROUND ROD. REFER TO SPECIFICATIONS.
- EXOTHERMIC WELD OR COMPRESSION CONNECTION
- GROUND RISER. REFER TO GROUNDING RISER DIAGRAM
- PROVIDE EXOTHERMIC WELD AT APPROXIMATE LOCATION ON STEEL COLUMN. LOCATION TO BE BELOW FINAL POURED CONCRETE SLAB
- [VERIFY FOR LIGHTING PROTECTION] PROVIDE COOPER WIRE (SIZE PER NFPA 780) FOR LIGHTNING PROTECTION DOWNLEAD CONDUCTOR
- CONNECT DOWNLEAD CONDUCTOR TO GROUND LOOP AND PROVIDE GROUND ROD AT THIS LOCATION.
- PVC CONDUIT. CONCEAL IN WALLS OR CHASES OR PROVIDE ARCHITECTURAL CHASE. NOT TO BE RUN EXPOSED OR ABOVE CEILINGS.
- PROVIDE GROUND LOOP AS REQUIRED FOR LIGHTING PROTECTION AND PER PLANS AND SPECIFICATIONS.

### GROUNDING DETAILS



## Gensler

1225 17th Street  
Suite 150  
Denver, CO 80202  
United States

Tel 303.595.8585  
Fax 303.825.6823



141 9th Street  
PO Box 774943  
Steamboat Springs, CO  
80477  
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### DESIGNWORKSHOP

1390 Lawrence Street  
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Tel 303.431.6100

14143 Denver West Pkwy  
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Golden, CO  
United States  
Tel 303.421.6655

Date	Description
2021.05.19	BP3: GOLDWALK - ISSUE FOR BID AND PERMIT
1 2021.08.03	BP3: GOLDWALK - BULLETIN 05

Seal / Signature



Project Name  
**SSRC | BASE AREA IMPROVEMENTS**

Project Number  
**003.7835.000**

Description  
**GOLD WALK - ELECTRICAL DETAILS**

Scale  
NO SCALE

**1B-E8.000**