

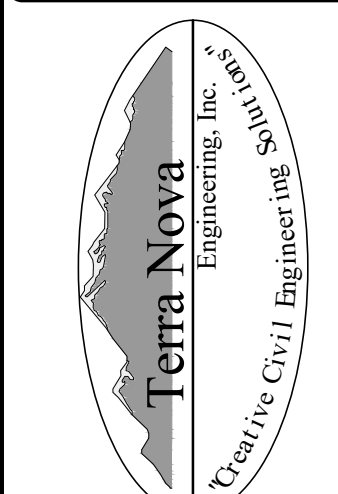


# LEGEND

EXISTING CONTOURS - MINOR	_____6132_____
EXISTING CONTOURS - MAJOR	_____6130_____
PROPOSED CONTOURS - MINOR	_____6132_____
PROPOSED CONTOURS - MAJOR	_____6130_____
LIMITS OF CONSTRUCTION	_____
EXISTING FINISHED GROUND	EX-FG
PROPOSED FINISHED GROUND	FG
PROPOSED FLOWLINE	FL
LOW POINT	LP
HIGH POINT	HP
PROPOSED	PR
EXISTING	EX
GRADE & DIRECTION	2.2%

UNTIL SUCH TIME AS THESE  
DRAWINGS ARE APPROVED  
BY THE APPROPRIATE  
REVIEWING AGENCIES,  
TERRA NOVA ENGINEERING,  
INC. APPROVES THEIR USE  
ONLY FOR THE  
PURPOSES DESIGNATED BY  
WRITTEN AUTHORIZATION.

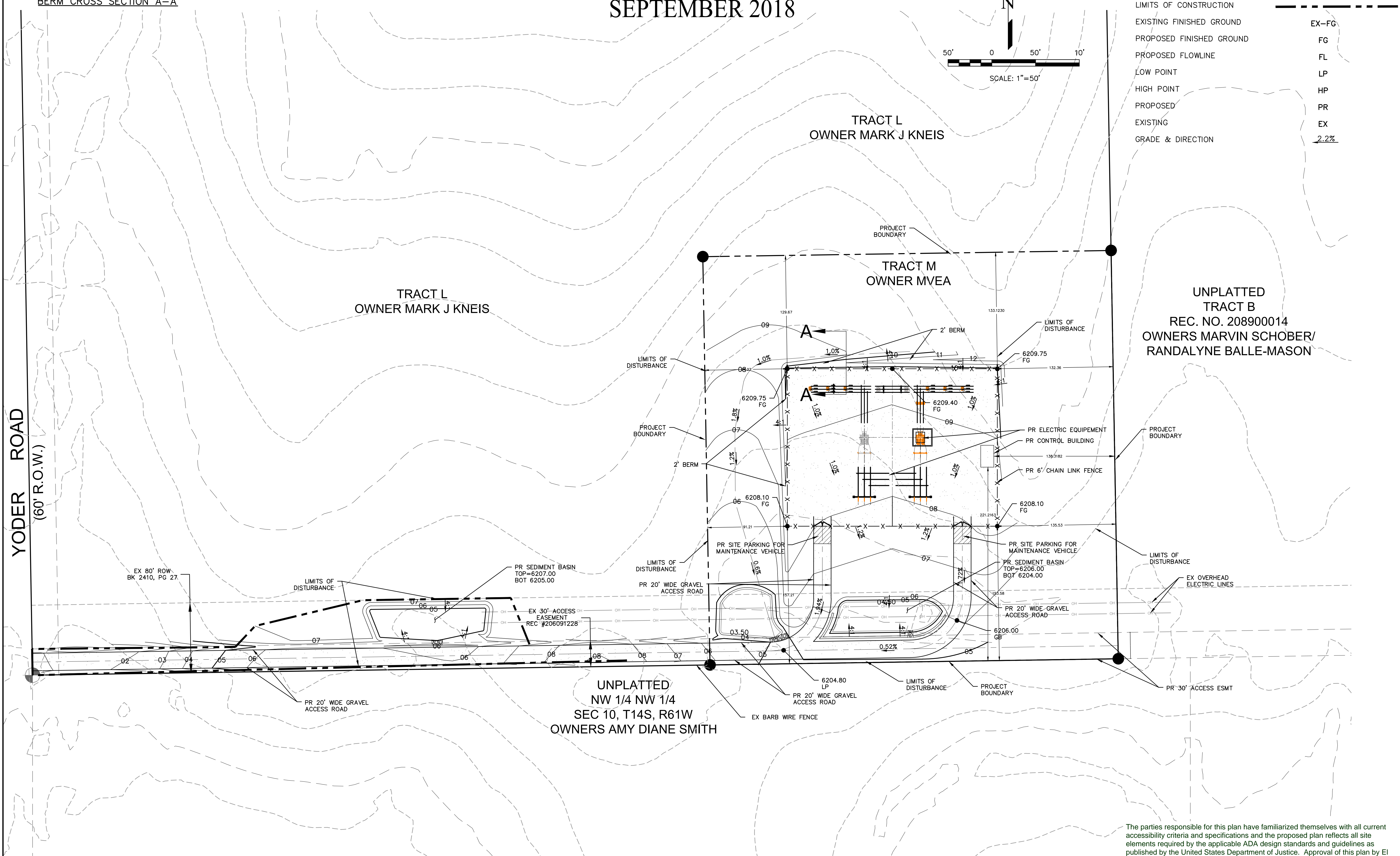
PREPARED FOR:  
MVEA  
ATTN: DAVID WALDNER  
11140 E. WOODMAN RD.  
PEYTON, CO 80931  
719-495-2283



21 S. 23RD STREET  
COLORADO SPRINGS, CO 80904  
OFFICE: 719-635-6422  
FAX: 719-635-6426  
[www.thesinc.com](http://www.thesinc.com)

# MWVA YODER SUBSTATION SITE PLAN

DESIGNED BY QNA
DRAWN BY QNA
CHECKED BY
H-SCALE 1"=50'
V-SCALE NA
JOB NO. 1802.00
DATE ISSUED 9/18/18
SHEET NO. 1 OF



The parties responsible for this plan have familiarized themselves with all current accessibility criteria and specifications and the proposed plan reflects all site elements required by the applicable ADA design standards and guidelines as published by the United States Department of Justice. Approval of this plan by El Paso County does not assure compliance with the ADA or any regulations or guidelines enacted or promulgated under or with respect to such laws.



COUNTY/ELEVATION YODER COUNTY, 6250'

WIND DESIGN DATA:

WIND SPEED = 90 MPH (ASCE 7-05)

RISK CATEGORY = III

EXPOSURE CATEGORY = C

RISK CATEGORY =	III	Ss =	0.220
SEISMIC IMPORTANCE FACTOR =	1.25	S1 =	0.065
SITE CLASS =	D	Sds =	0.235
SEISMIC DESIGN CATEGORY =	B	Sd1 =	0.104
ANALYSIS PROCEDURE USED =	EQUIVALENT LATERAL FORCE		

1. CODES USED IN DESIGN: ASCE 7-05, ASCE 113 NESC 2012, IEEE 693, ACI 318.14
2. FOUNDATION DESIGNED PER THE CTL THOMPSON GEOTECHNICAL ENGINEERING REPORT FOR YODER SUBSTATION PROJECT, DATED 01 04, 2019. THE REPORT SHALL BE REVIEWED AND FOLLOWED BY CONTRACTOR.
3. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES PRIOR TO EXCAVATION.

4.1. STRUCTURAL FILL SHOULD BE PLACED IN LIFTS HAVING A MAXIMUM LOOSE LIFT THICKNESS OF 12" AND SHOULD BE COMPACTED TO A MINIMUM 95% OF ASTM D1557 OR 97% ASTM D698

5.1. CONCRETE CONSTRUCTION SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318 EXCEPT AS MODIFIED BY WILDHORSE SUBSTATION SPECIFICATIONS AND CONTRACT DOCUMENTS.

5.2. CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH ACI 305R (HOT WEATHER) OR ACI 306R (COLD WEATHER) AS APPLICABLE.

5.3. CONCRETE MIX DESIGN SHALL CONFORM TO THE LATEST EDITION OF ACI 301 AND ACI 318 AND BE SUBMITTED AND APPROVED BY DESIGN ENGINEER PRIOR TO CONCRETE PLACEMENT.

5.3.1. CONCRETE STRENGTH (F'c) SHALL COMPLY WITH ACI 318 CHAPTER 19.

5.3.2. CONCRETE MIXTURES SHALL BE DESIGNED BASED ON EXPOSURE CATEGORY [F2] AND [S0] AS DEFINED IN ACI 318 CHAPTER 19.3.

5.3.2.1. TYPE I/II PORTLAND CEMENT CONFORMING TO ASTM C150 IS REQUIRED. MINIMUM COMPRESSIVE STRENGTH SHALL BE **f'c = 4500psi**.

5.3.2.2. AIR CONTENT SHALL BE 5%±1%.

5.3.2.3. MAXIMUM WATER TO CEMENT RATIO (w/cm) OF 0.45 IS ALLOWED.

5.3.2.4. MAXIMUM NOMINAL COARSE AGGREGATE SIZE SHALL BE 3/4" UNLESS OTHERWISE IN CONTRACT DOCUMENTS. COARSE AND FINE AGGREGATES SHALL CONFORM TO ASTM C

- 6.1.  $F'_c=1500\text{PSI}$
- 6.2. SLUMP SHALL BE BETWEEN 7" TO 9"
- 6.3. 3/4" NOMINAL MAXIMUM AGGREGATE SIZE

- 7.1. INSTALLATION OF DRILLED PIERS SHALL COMPLY WITH THE LATEST REVISION OF ACI 336.1 AND ACI 336.3.
- 7.2. DRILLED PIERS SHALL NOT DEVIATE FROM THE POSITIONS SHOWN ON THE CONSTRUCTION DRAWINGS MORE THAN ½ INCH IN ANY DIRECTION. THE TOP ELEVATIONS OF ALL FOUNDATIONS SHALL BE BETWEEN 0 AND +½" OFF THE ELEVATIONS SHOWN ON THE CONSTRUCTION DRAWINGS.
- 7.3. PIER PLUMBNESS SHALL BE CHECKED PERIODICALLY DURING DRILLING AND VERIFIED PRIOR TO PLACEMENT OF CONCRETE. TOLERANCES SHALL NOT EXCEED 4% OF PIER DIAMETER OR 3IN.
- 7.4. DRILLED HOLES SHALL BE CLEAN AND FREE OF ANY LOOSE MATERIAL BEFORE PLACING ANY CONCRETE.
- 7.5. DRILLED HOLES SHALL NOT BE LEFT OPEN FOR ANY MORE TIME THAN ABSOLUTELY NECESSARY. CONCRETE SHALL BE PLACED IN DRILLED HOLE IMMEDIATELY AFTER DRILLING AND CLEANING ARE COMPLETE. CONTRACTOR SHALL ASSURE THAT ALL OPEN HOLES ARE PROPERLY COVERED WHEN LEFT UNATTENDED.
- 7.6. ALL CASINGS USED DURING DRILLING OF FOUNDATIONS SHALL BE CONSIDERED TEMPORARY UNLESS STATED OTHERWISE IN CONTRACT DOCUMENTS. TEMPORARY CASINGS SHALL BE REMOVED AT A RATE THAT WILL PREVENT SOIL FROM COLLAPSING AND CONTAMINATING THE CONCRETE WHILE THE CONCRETE IS BEING PLACED.
- 7.7. A TREMIE PIPE OR CONCRETE ELEPHANT'S TRUNK SHALL BE USED TO PLACE ANY FREE FALL CONCRETE IN ANY DRILLED PIER FOUNDATIONS.
- 7.8. CONCRETE PLACED FOR DRILLED PIERS SHALL BE PLACED MONOLITHICALLY TO ASSURE NO COLD JOINTS ARE FORMED.
- 7.9. CHAMFER ALL EXPOSED FORMED EDGES ¾", TYPICAL OF ALL FOUNDATION TYPES.

8.1. CONTRACTOR SHALL VERIFY ANCHOR BOLT PATTERNS, SIZE AND PROJECTIONS WITH STEEL STRUCTURE SHOP DRAWING, PRIOR TO ANCHOR BOLT PLACEMENT.

8.2. ANCHOR BOLT PROJECTIONS ABOVE THE TOP OF CONCRETE SHALL BE BETWEEN 0 TO +1/4" FROM THE SPECIFIED PROJECTIONS. INDIVIDUAL ANCHOR BOLTS SHALL NOT DEVIATE FROM THEIR SPECIFIED CENTERLINES SHOWN ON THE CONSTRUCTION DRAWINGS.

8.3. THE CENTER OF A COMPLETE SET OF BOLT GROUPS SHALL BE WITHIN 1/8" OF THE SPECIFIED CENTERLINE OF THE STRUCTURE. ANCHOR BOLTS SHALL NOT BE OUT OF PLUMB BY MORE THAN 1% OF THE HEIGHT OF THE ANCHOR BOLT.

8.4. ANCHOR BOLTS SHALL BE ASTM F1554 GRADE 55 UNLESS SPECIFIED OTHERWISE IN DRAWINGS OR CONTRACT DOCUMENTS.

8.5. FOR THREADED ANCHOR BOLTS SPECIFYING A615 GRADE 75 REBAR, SIZES SHALL BE #14J (1 3/4") OR #18J (2 1/4") BARS ONLY. ANCHORS SHALL BE GALVANIZED PER ASTM A767.

9.4. REINFORCING STEEL SHALL BE ASTM 615, GRADE 60 BLACK.

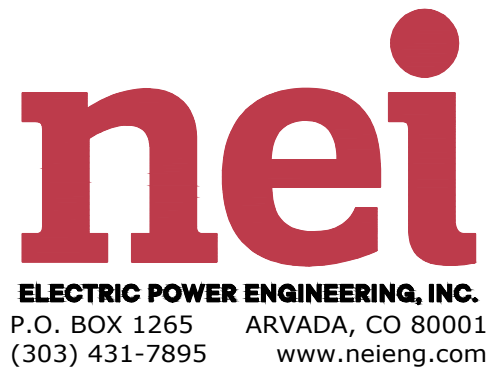
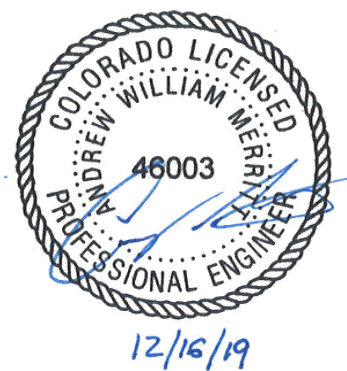
9.5. MINIMUM REBAR COVER IS 3" EXPOSED TO EARTH, 2" EXPOSED TO FORM OR AIR. COVER IS FROM CONCRETE EDGE TO STIRRUPS/TIES OR MAIN BAR (WHICHEVER OCCURS FIRST). ANY REBAR SPLICES SHALL BE AS DESIGNATED ON THE DRAWINGS OR APPROVED BY DESIGN ENGINEER.

9.6. REINFORCING STEEL SHALL BE ACCURATELY PLACED AND ADEQUATELY SUPPORTED BEFORE THE CONCRETE IS PLACED, AND SHALL BE SECURED AGAINST DISPLACEMENT WITHIN PERMITTED TOLERANCES. CONTRACTOR IS FREE TO SELECT THE TYPE AND CLASS OF BAR SUPPORTS REQUIRED TO MAINTAIN TOLERANCES.

9.7. THE USE OF SHAFT SPACERS MAY BE USED TO ENSURE PROPER ALIGNMENT OF CAGES BEFORE PLACING OF CONCRETE.

9.8. TOLERANCES (ONLY SINGLE PLANE PERMITTED)

	9.8.1.	FOR #3, #4 AND #5 STRAIGHT AND BENT BARS, DIMENSIONS SHALL BE $\pm \frac{1}{2}$ ".							
	9.8.2.	FOR #6, AND LARGER STRAIGHT AND BENT BARS, DIMENSIONS SHALL BE $\pm 1$ ".							
	9.8.3.	BEND DIAMETERS FOR 90 DEGREE HOOKS SHALL INCLUDE "SPRING BACK" EFFECTS.							
9.9.	LAP SPICE LENGTHS (ACI 318-14 TABLE 25.5.2.1, CLASS B)								
		#4 - 25"	#5 - 31"	#6 - 37"	#7 - 54"	#8 - 62"	#10 - 79"	#11 - 87"	
9.10.	MINIMUM INSIDE BEND DIAMETER								
	9.10.1.	FOR 90 AND 180 DEGREE DEFORMED BARS IN TENSION (ACI 318-14, TABLE 25.3.1)							
		#4 - 3"	#5 - 3 $\frac{3}{4}$ "	#6 - 4 $\frac{1}{2}$ "	#7 - 5 $\frac{1}{4}$ "	#8 - 6"	#10 - 10 $\frac{1}{2}$ "	#11 - 11 $\frac{1}{4}$ "	
	9.10.2.	FOR 90 AND 180 DEGREE STIRRUPS, TIES AND HOOPS (ACI 318-14, TABLE 25.3.2)							
		#4 - 2"	#5 - 2 $\frac{1}{2}$ "	#6 - 4 $\frac{1}{2}$ "	#7 - 5 $\frac{1}{4}$ "	#8 - 6"			



**MOUNTAIN VIEW ELECTRIC ASSOCIATION, INC.**  
Your Touchstone Energy® Cooperative

**11140 E. WOODMAN RD.  
FALCON, CO. 80821**

Dwn:	Date: <b>09/09/19</b>
Appd:	Date:

C03-00

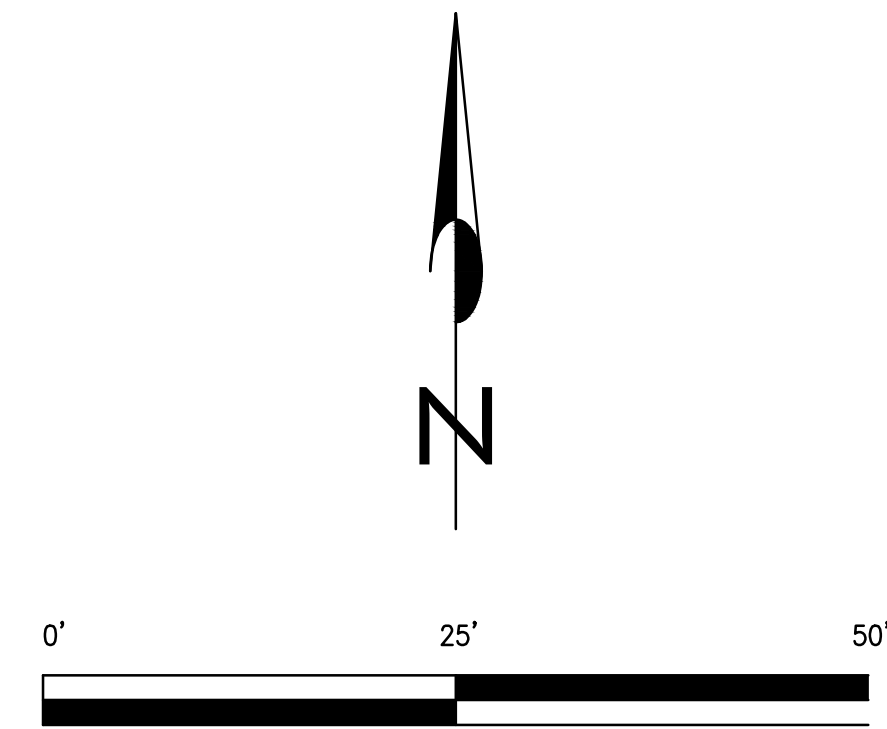
YODER SUBSTATION

69kV - 12.47kV  
FOUNDATION NOTES

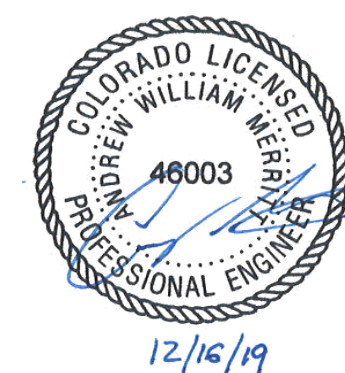
MOUNTAIN VIEW ELECTRIC  
ASSOCIATION INCORPORATED

UPDATED BY: <b>CMOORE</b> 11/11/2019 1:23 PM	Contract:
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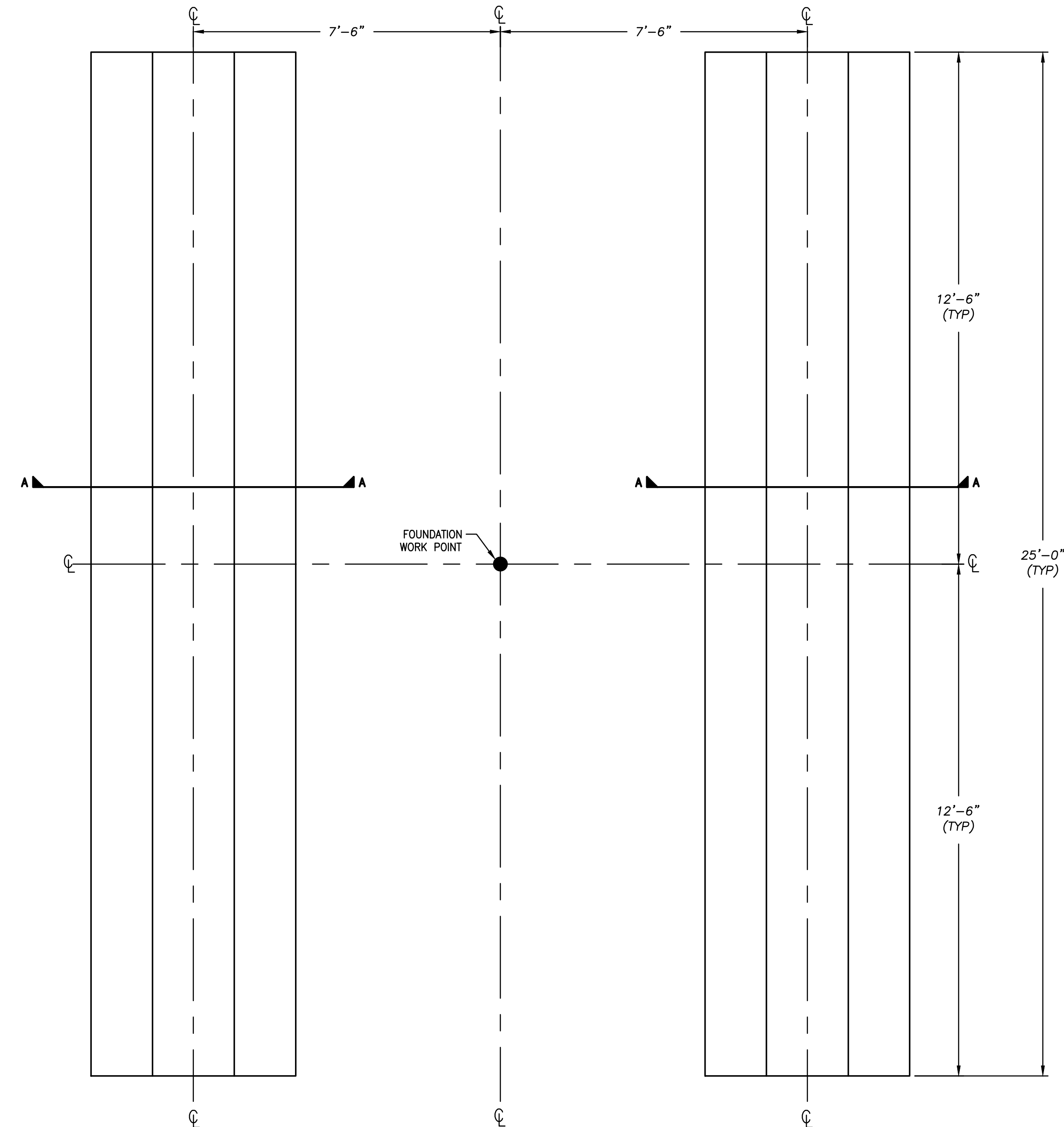
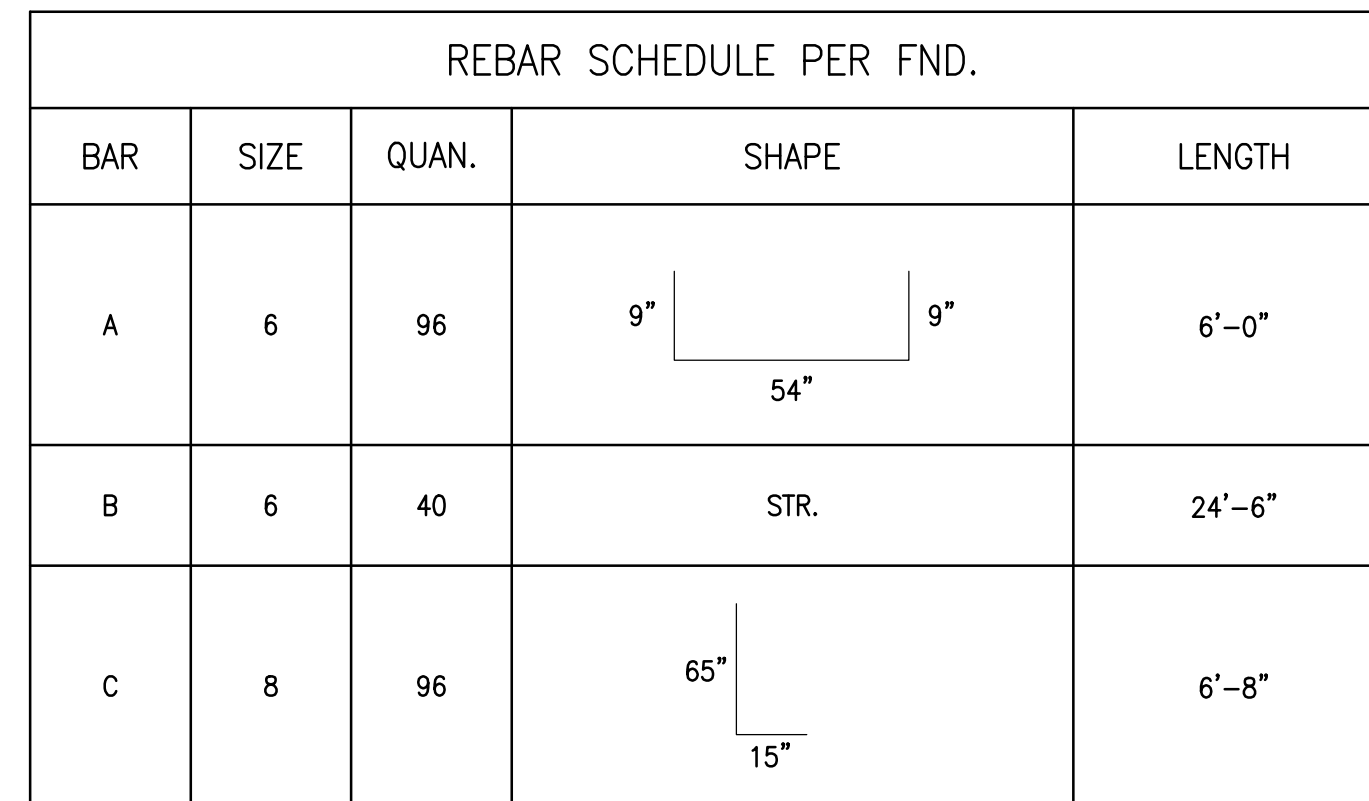
☒ DENOTES FOUNDATION DESIGNATION  
 • DENOTES FOUNDATION WORK POINT  
☒ DENOTES FOUNDATION ORIENTATION



**nei**  
**ELECTRIC POWER ENGINEERING, INC.**  
P.O. BOX 1265 ARVADA, CO 80001  
(303) 431-7895 [www.neieng.com](http://www.neieng.com)

[illegible]





**Mountain View Electric Association, Inc.**  
Your Touchstone Energy® Cooperative

11140 E. WOODMAN RD.  
FALCON, CO. 80831

C03-09

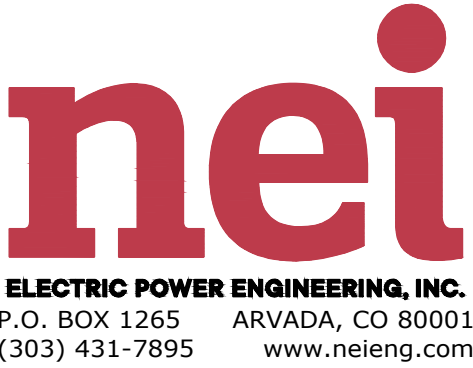
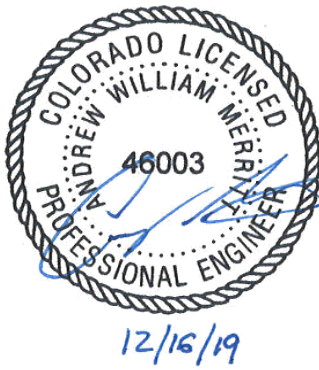
REBAR SCHEDULE (FOUNDATION K)				
BAR	SIZE	QTY PER FND	SHAPE	LENGTH
A	4	24	STR.	5'-8"

REBAR SCHEDULE (FOUNDATION L)				
BAR	SIZE	QTY PER FND	SHAPE	LENGTH
B	4	20	STR.	5'-0"
C	4	12	STR.	9'-1"

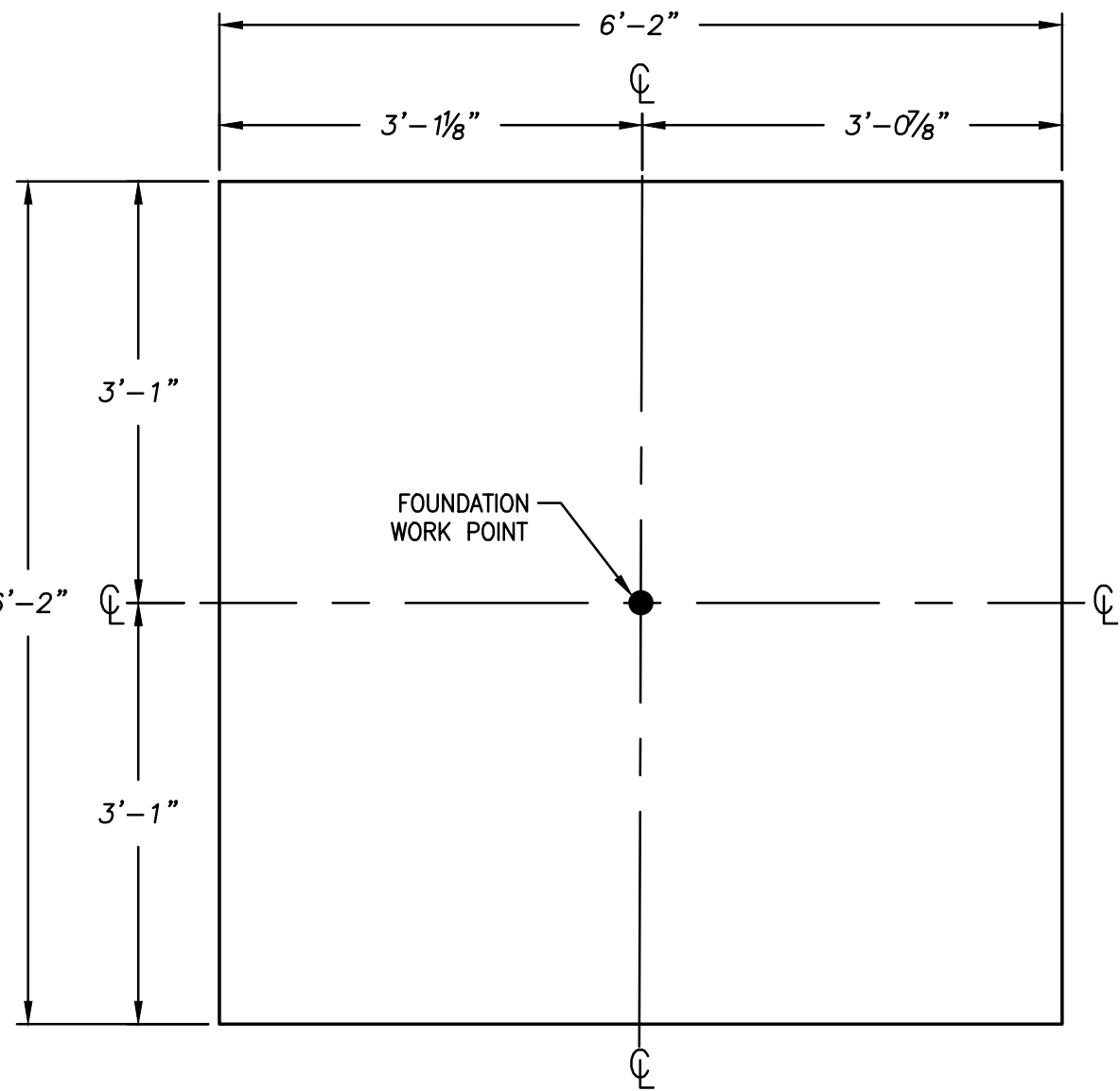
NOTE:  
1) CRITICAL TOP OF CONCRETE FOR BOTH PADS TO BE SET TO MATCH CONTROL BUILDING STRIP FOOTING TOP OF CONCRETE.  
2) USE HILTI - HY 200 + HAS E 1/2", 5" EMBEDMENT FOR ALL STAIR ATTACHMENTS



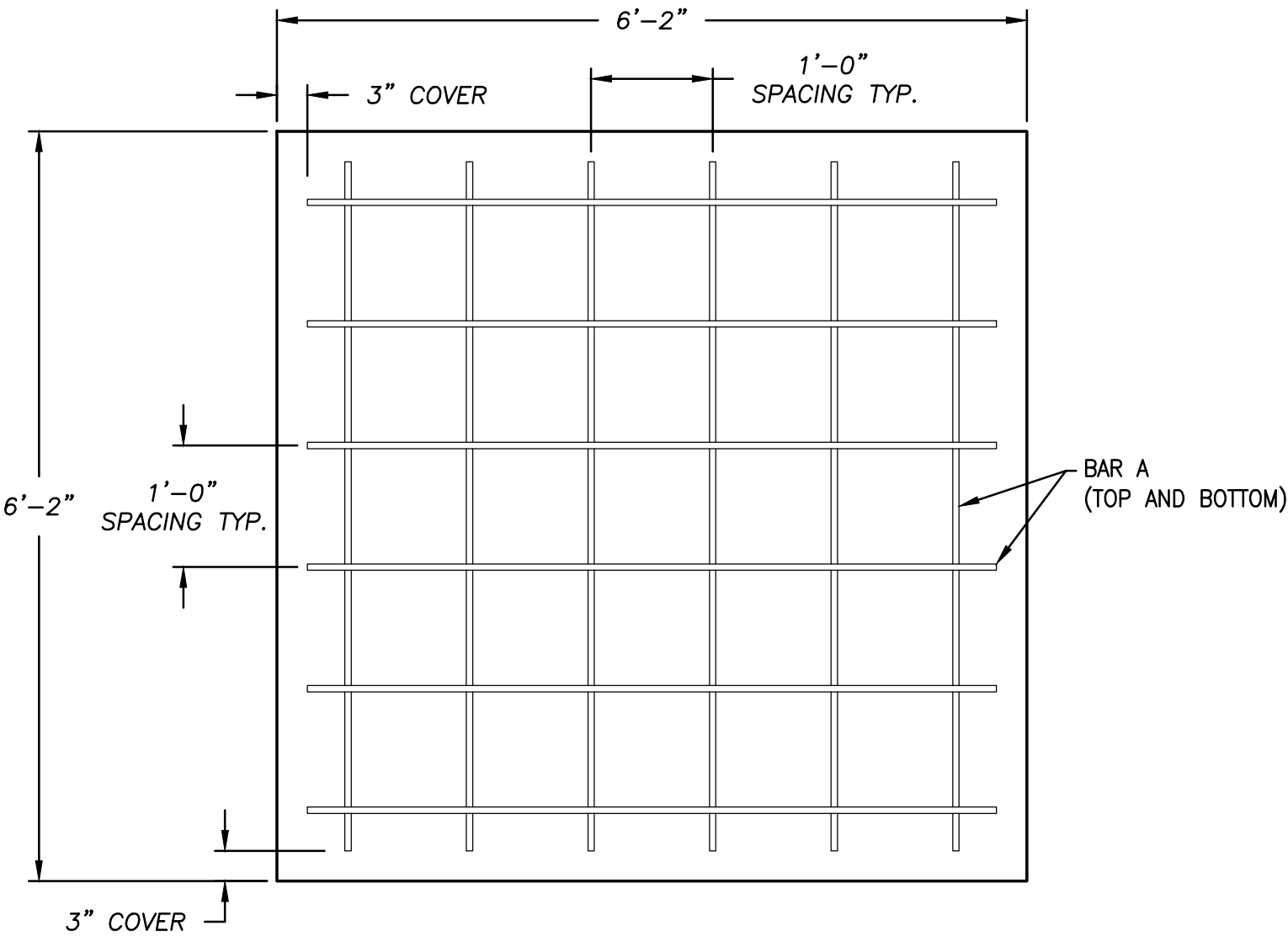
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		11140 E. WOODMAN RD.		FALCON CO. 80831		11/11/19		0		11/11/19		11/11/2019 12:08 PM		11/11/2019 12:08 PM	
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Appd:		Date:		Date:		Date:		Date:		Date:		Date:		Date:	
C03-12		C03-12		C03-12		C03-12		C03-12		C03-12		C03-12		C03-12	



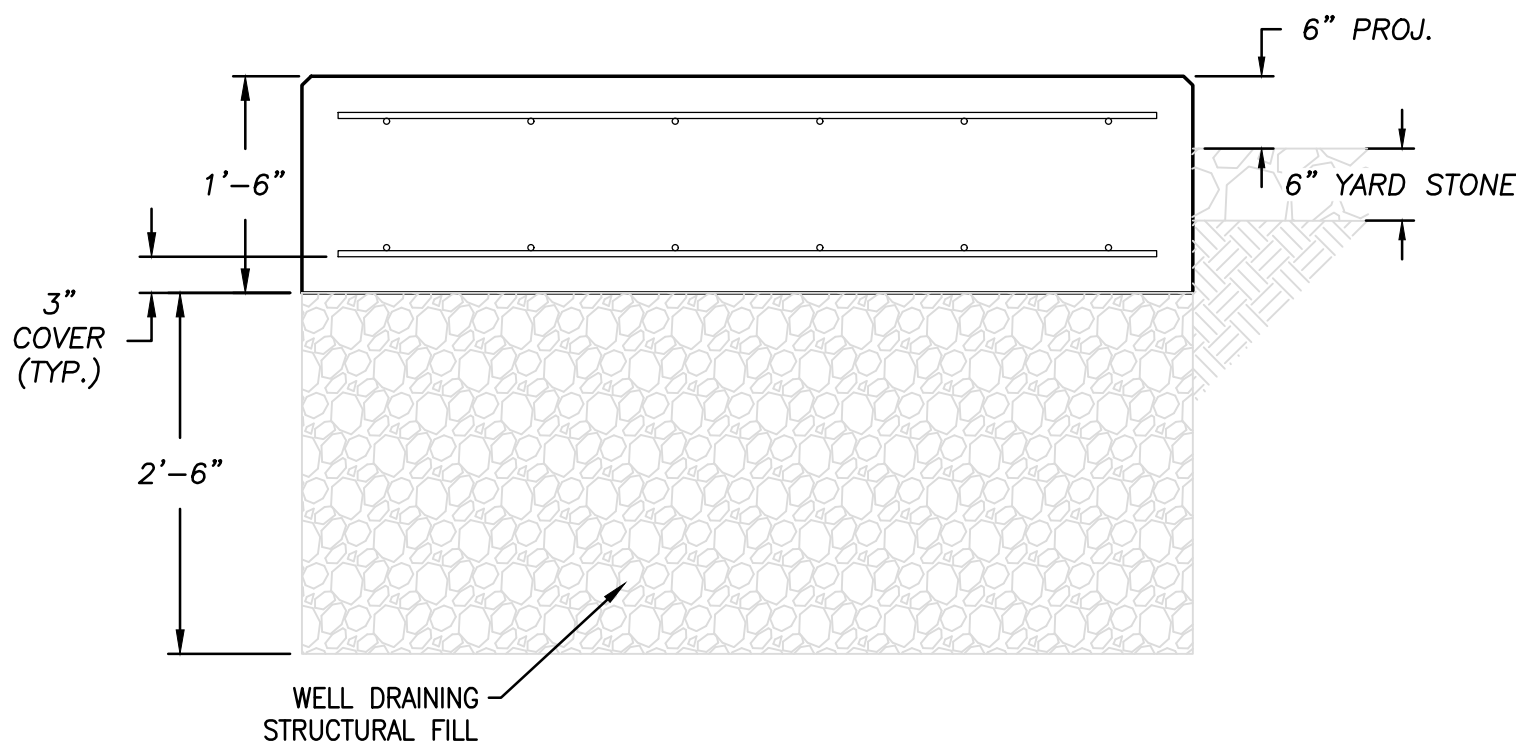
ELECTRIC POWER ENGINEERING, INC.  
P.O. BOX 1265 ARVADA, CO 80001  
(303) 431-7895 www.neieng.com



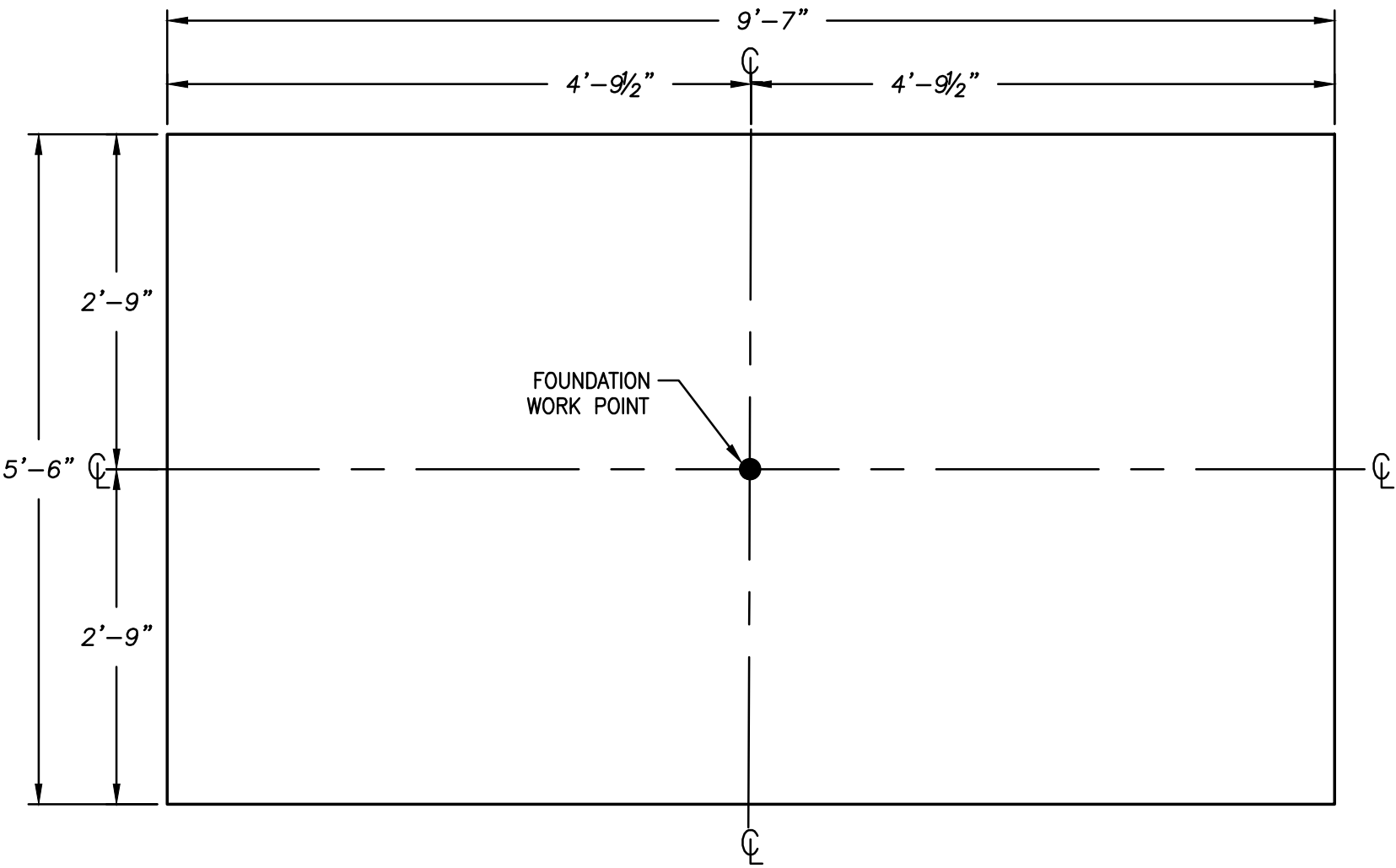
FOUNDATION PLAN



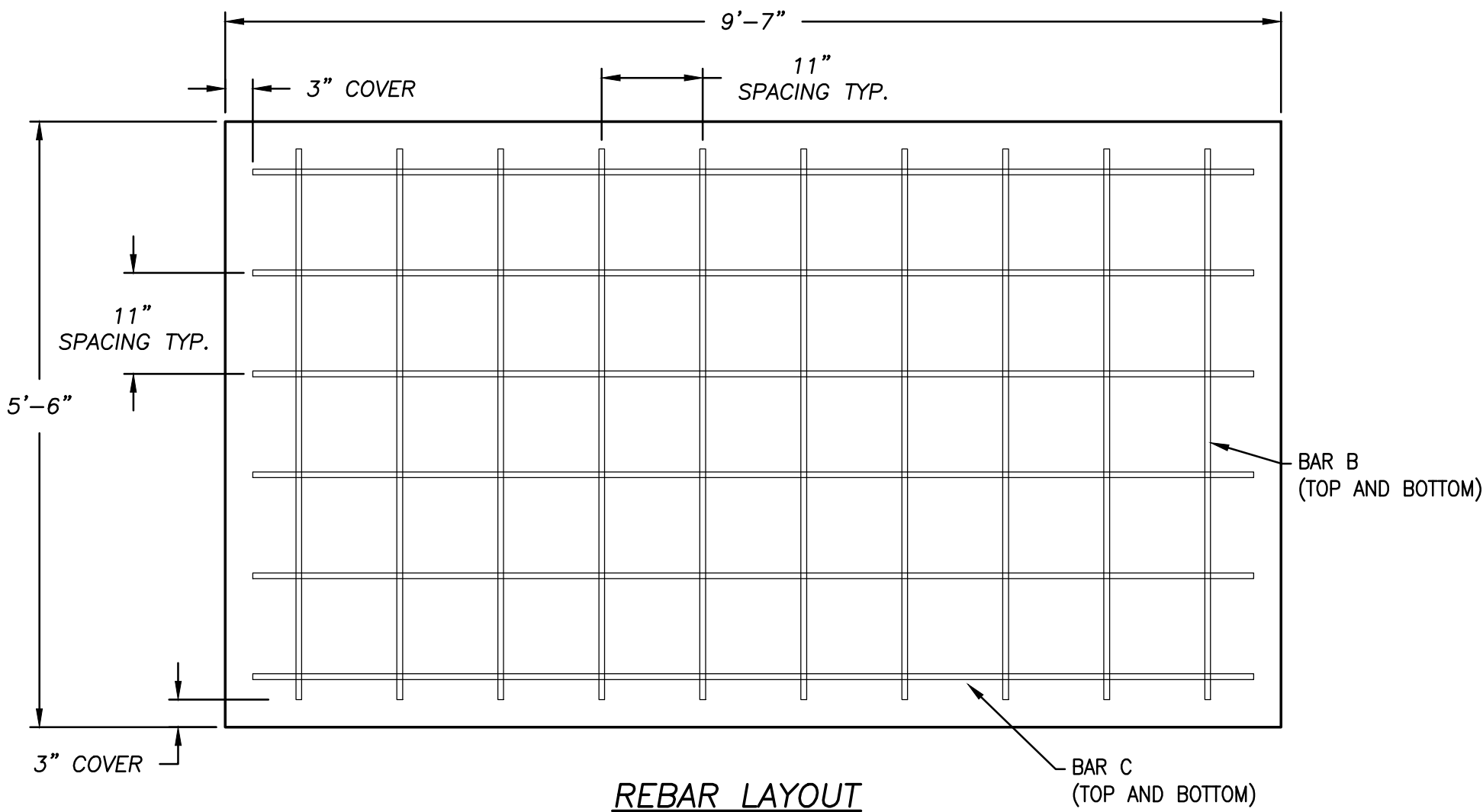
REBAR LAYOUT



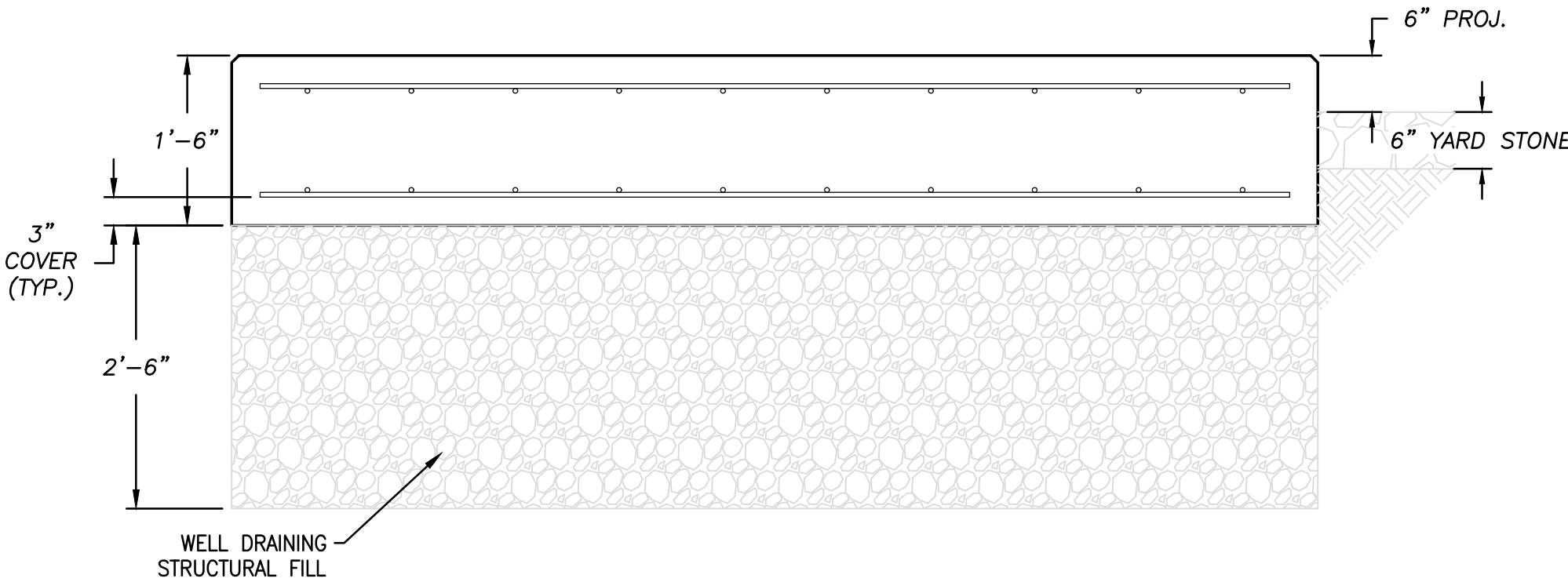
FOUNDATION K  
(1 REQUIRED)



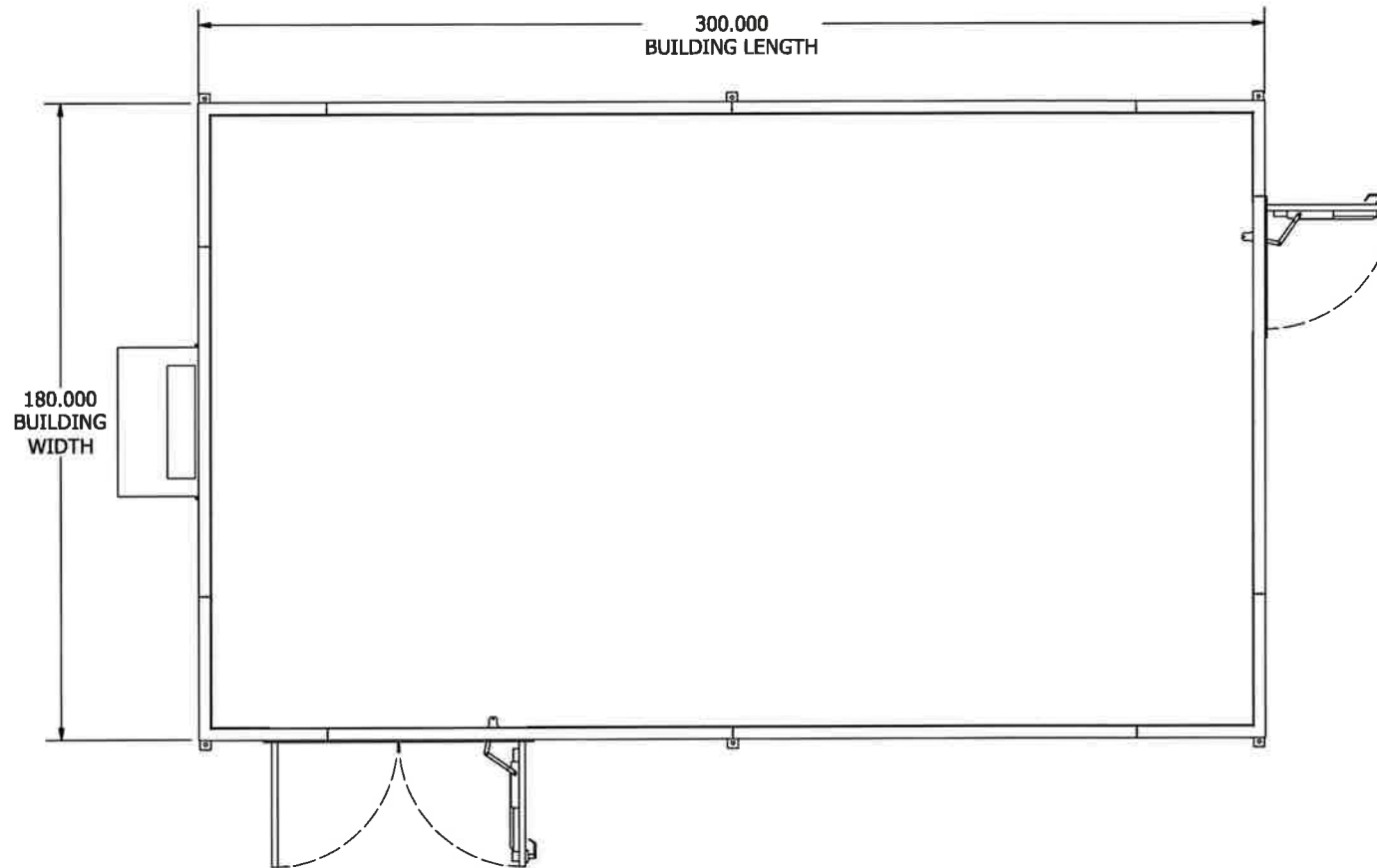
FOUNDATION PLAN



REBAR LAYOUT



FOUNDATION L  
(1 REQUIRED)



**PLAN VIEW**  
(SHOWN WITH ROOF AND INTERNAL  
COMPONENTS REMOVED)

State of Colorado  
Division of Housing

November 26, 2019




**PLANS APPROVED**  
Subject to field inspection

9281



STRUCTURE ONLY

 <b>ESSMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING PLAN VIEW		
DRAWN: J.Jelavich	8/27/2019	SIZE	DWG NO.	REV
CHECK: T.Anderson	8/28/2019	B	Y191203-691880	C
APPD: J.Jelavich	8/28/2019	SCALE		SHEET 2 OF 22



Parts List			
ITEM	ITEM QTY	PART NUMBER	MASS
1	1	**ACP2	150.000 lbmass
2	1	**TRP2	500.000 lbmass
3	1	**TRP3	500.000 lbmass
4	1	**TRP4	500.000 lbmass
5	1	**TRP5	500.000 lbmass
6	4	3 WAY SWITCH	0.255 lbmass
7	1	ACP1	150.000 lbmass
8	1	ANTENNA	2.347 lbmass
9	1	ATS	120.000 lbmass
10	1	BATTERY BANK	1660.000 lbmass
11	1	BATTERY SPILL CONTAINMENT	75.000 lbmass
12	1	BC1	265.000 lbmass
13	1	DCP1	100.000 lbmass
14	2	EXIT-EMERGENCY COMBO	12.938 lbmass
15	2	EXTERIOR LED WALLPACK	3.190 lbmass
16	1	EYEWASH	50.000 lbmass
17	1	FAN CONTROL BOX	25.000 lbmass
18	2	FIRE EXTINGUISHER 10#	16.000 lbmass
19	7	GFCI RECEPTACLE	0.334 lbmass
20	1	HVAC #1	565.000 lbmass
21	1	HYDROGEN SENSOR JUNCTION BOX	10.000 lbmass
22	6	INTERIOR LED, 48IN	16.500 lbmass
23	1	LC1	25.000 lbmass
24	1	SMOKE DETECTOR	1.041 lbmass
25	1	TERMINATION CABINET	600.000 lbmass
26	1	THERMOSTAT	0.937 lbmass
27	1	TRP1	500.000 lbmass
28	2	WEATHERPROOF GFCI RECEPTACLE	0.379 lbmass
29	1	WORK DESK	50.000 lbmass
30	1	DRAWING HANGER	30.000 lbmass
31	1	EXHAUST FAN	13.000 lbmass
32	1	LOUVER	6.500 lbmass

\*\*SUPPLIED BY CUSTOMER; INSTALLED BY OTHERS

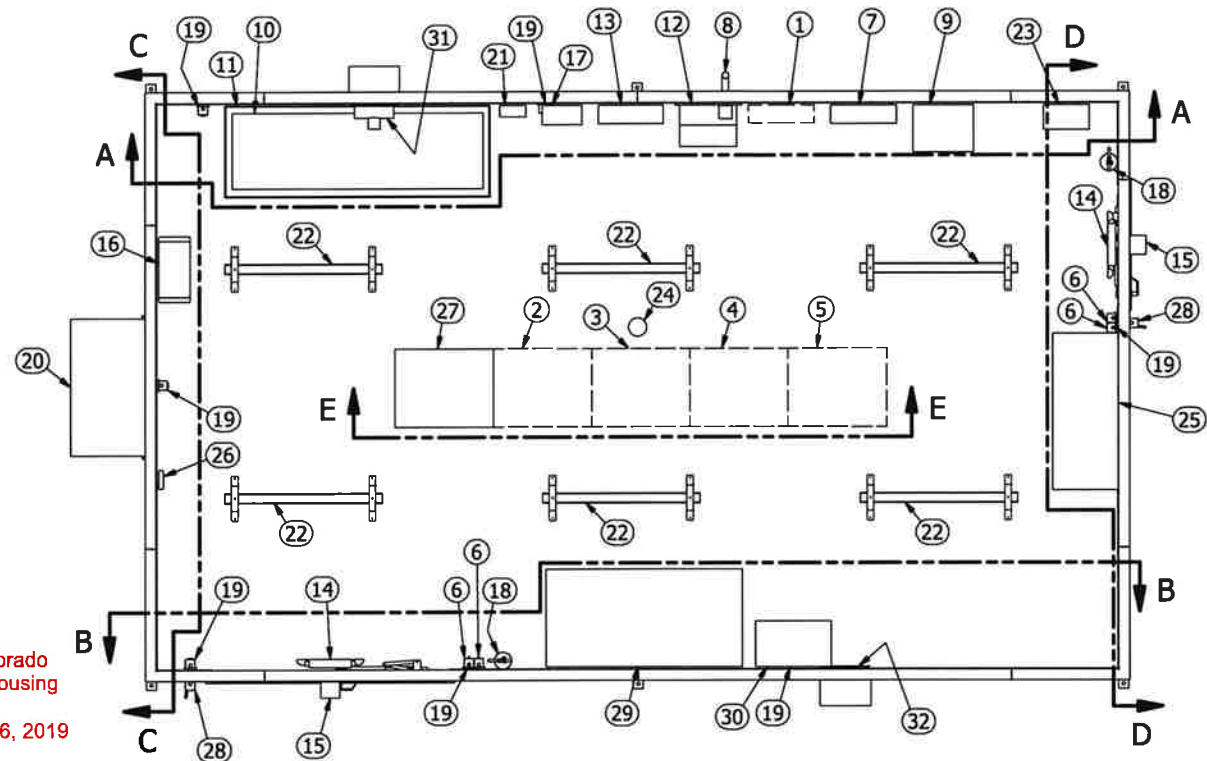
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Division of Housing

November 26, 2019



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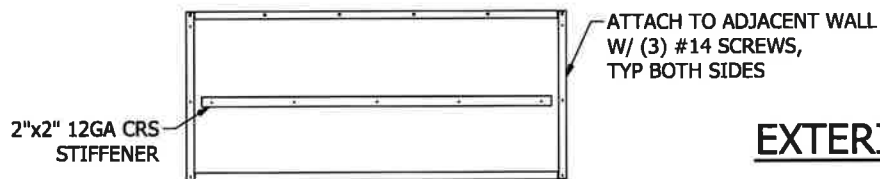
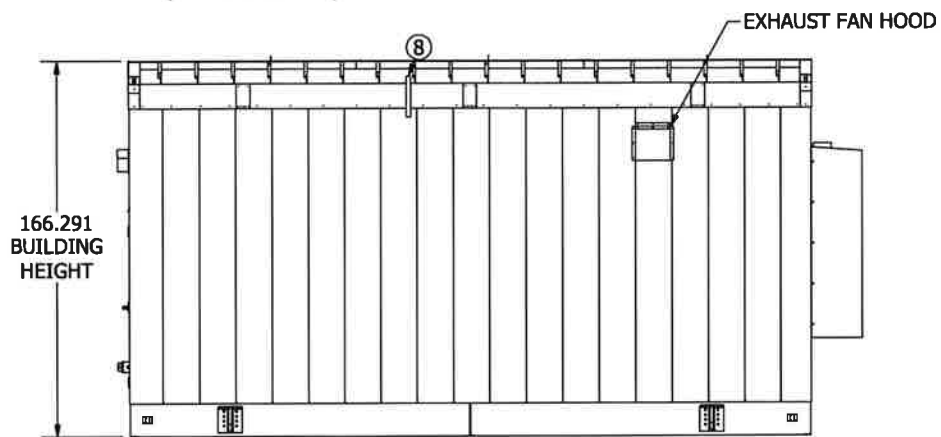
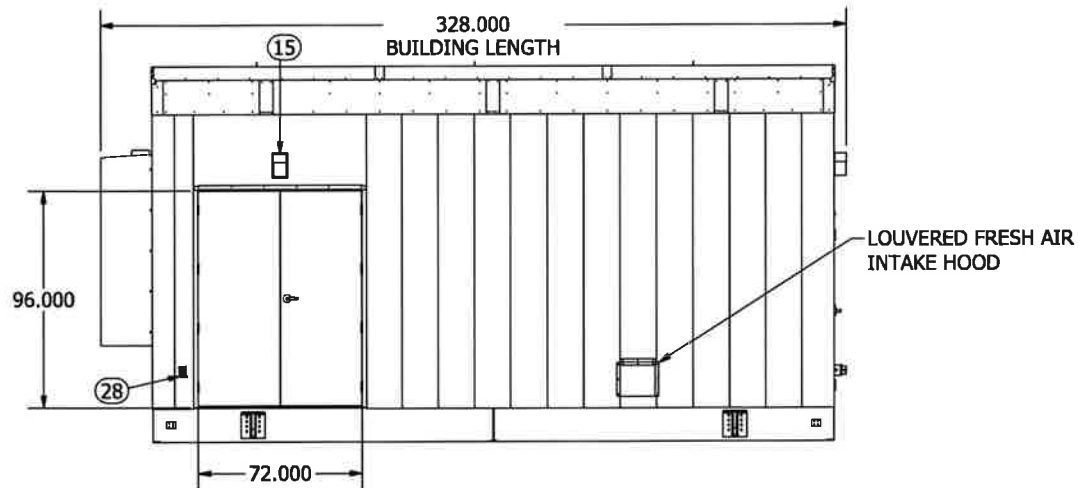
## COMPONENT DETAIL

SOME DETAILS REMOVED FOR CLARITY



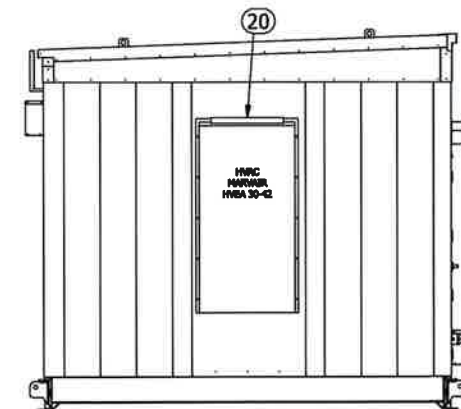
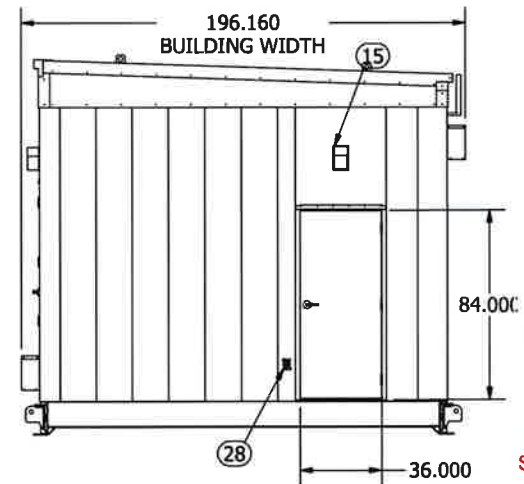
STRUCTURE ONLY

<b>ESMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING COMPONENT PLAN VIEW	
DRAWN: J.Jelavich	8/27/2019	SIZE: B	DWG NO. Y191203-691880
CHECK: T.Anderson	8/28/2019	SCALE:	REV C
APPD: J.Jelavich	8/28/2019	SCALE:	SHEET 3 OF 22



**12GA MAN DOOR HEADER**  
TYPICAL BOTH MAN DOORS

## EXTERIOR ELEVATIONS



State of Colorado  
Division of Housing

November 26, 2019

State of Colorado  
Division of Housing  
November 26, 2019

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STRUCTURE ONLY

<b>EB&amp;METROM</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING EXTERIOR ELEVATIONS	
DRAWN: J. Jelavich	8/27/2019	SIZE B	DWG NO. Y191203-691880
CHECK: T. Anderson	8/28/2019	SCALE	REV C
APPD: J. Jelavich	8/28/2019	SHEET 4 OF 22	



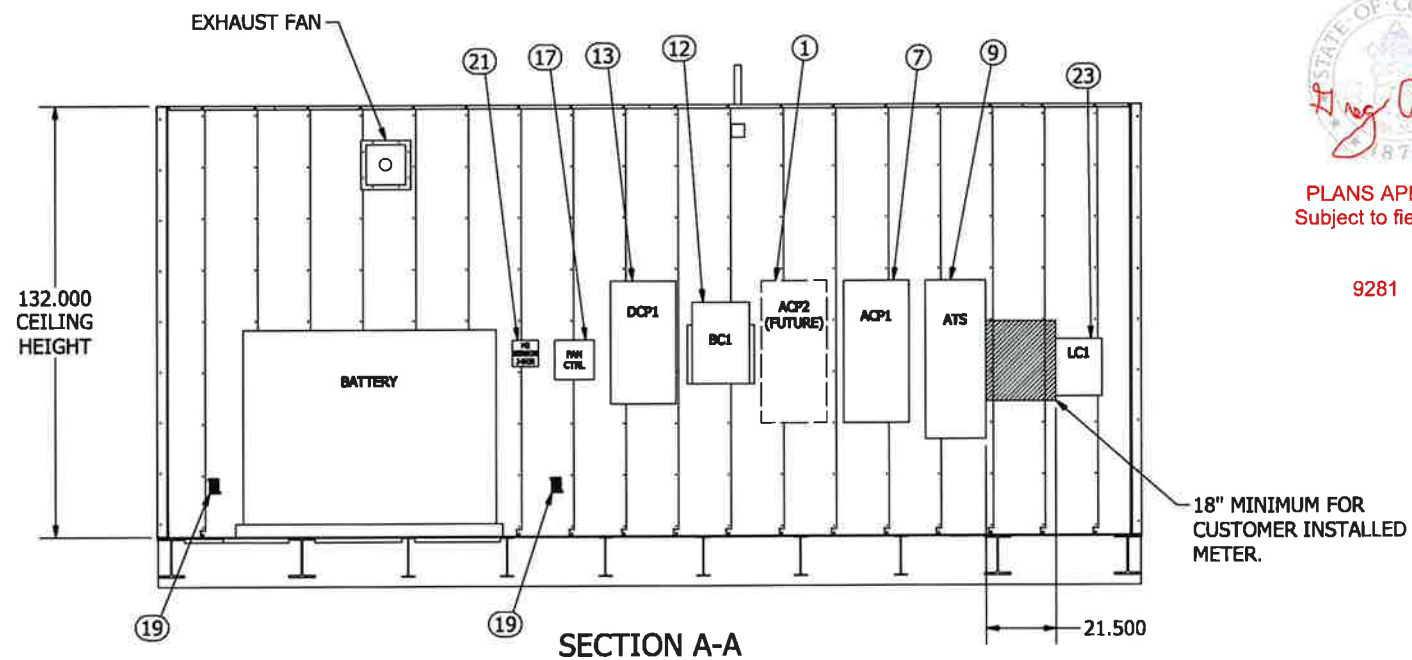
State of Colorado  
Division of Housing

November 26, 2019



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## COMPONENT ELEVATIONS



STRUCTURE ONLY

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DRAWN: J.Jelavich	8/27/2019	SIZE	DWG NO.	REV
CHECK: T.Anderson	8/28/2019	B	Y191203-691880	C
APPD: J.Jelavich	8/28/2019	SCALE		SHEET 5 OF 22

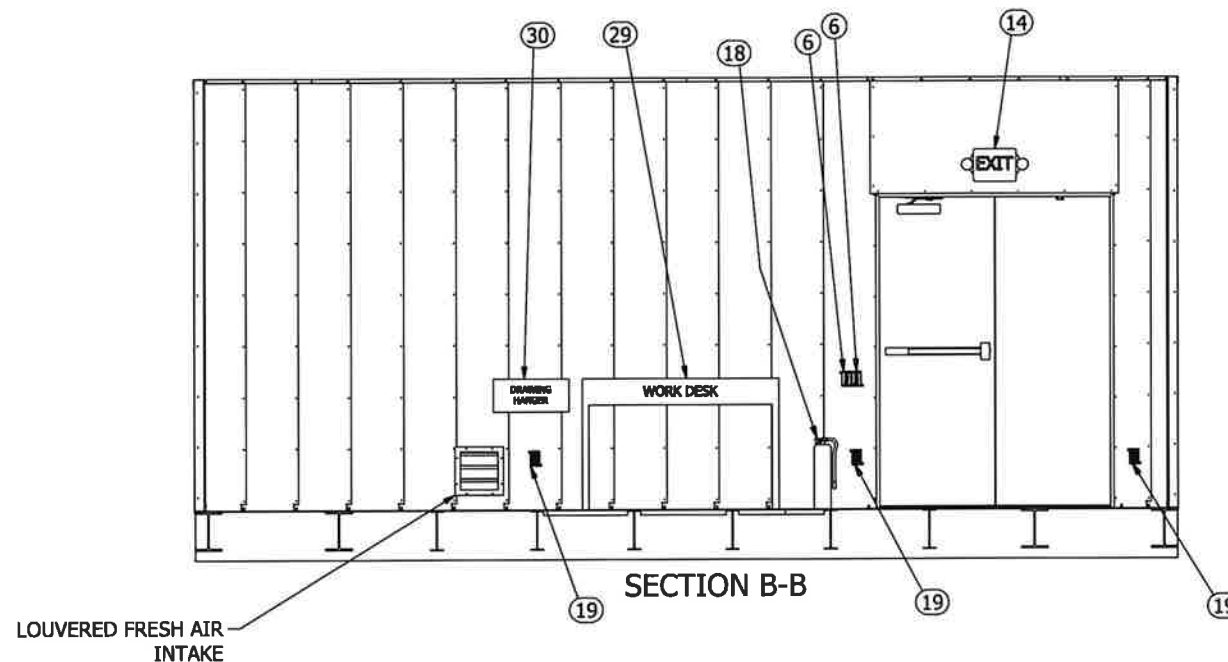
State of Colorado  
Division of Housing

November 26, 2019



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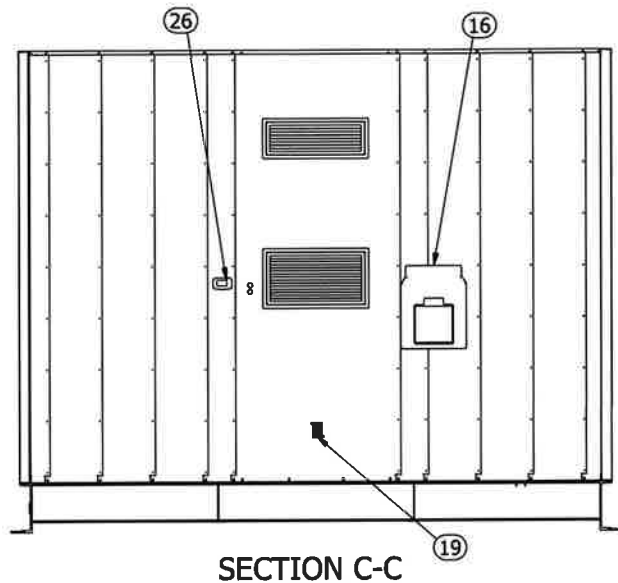
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STRUCTURE ONLY

<b>ESSMETRON</b> 1605 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING COMPONENT ELEVATIONS	
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CHECK: T. Anderson	8/28/2019	DWG NO. Y191203-691880	
APPD: J. Jelavich	8/28/2019	SCALE	SHEET 5 OF 22





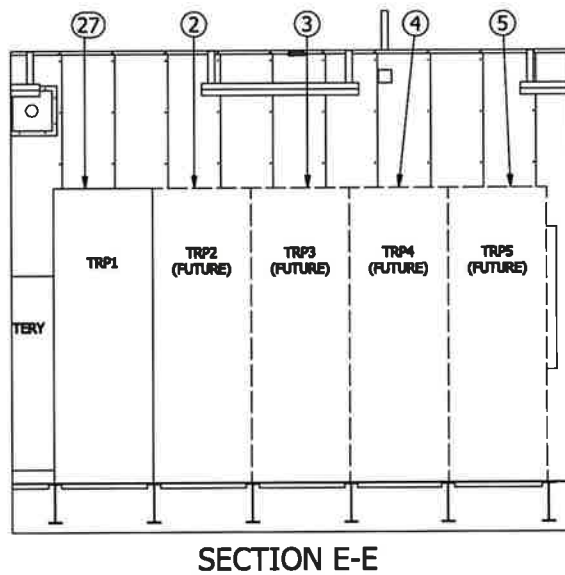
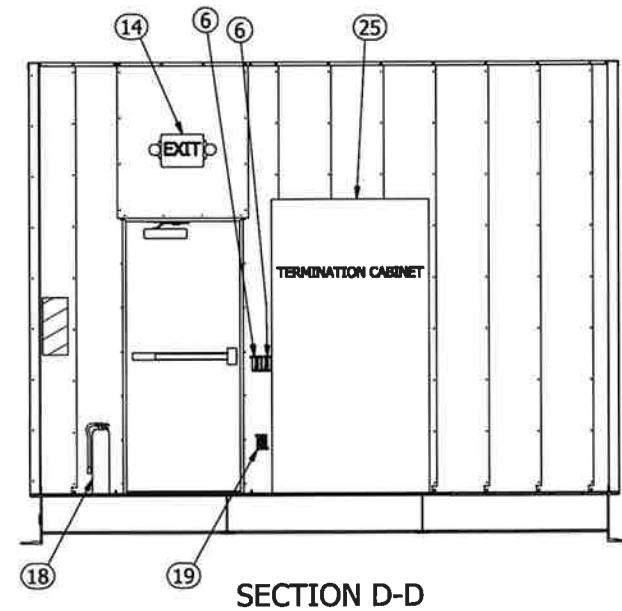
State of Colorado  
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PLANS APPROVED  
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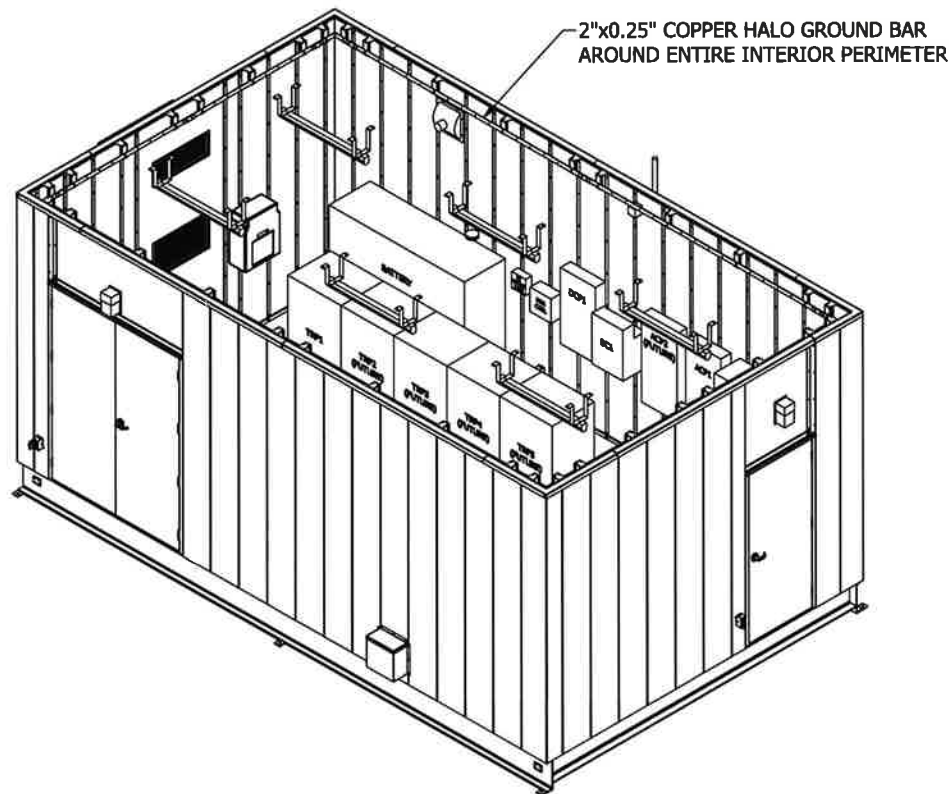


## COMPONENT ELEVATIONS



STRUCTURE ONLY

<b>ESBOMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING COMPONENT ELEVATIONS	
DRAWN: J. Jelavich	8/27/2019	SIZE B	REV C
CHECK: T. Anderson	8/28/2019	DWG NO. Y191203-691880	
APPD: J. Jelavich	8/28/2019	SCALE	SHEET 7 OF 22



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9281

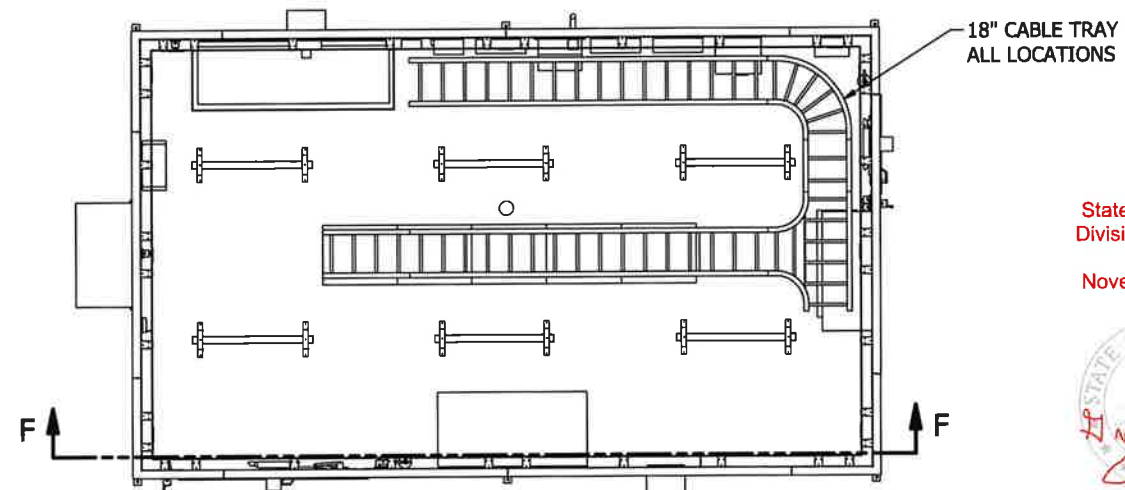
## HALO GROUND ISOMETRIC



STRUCTURE ONLY

<b>ESSMETRON</b> 1805 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING HALO GROUND ISOMETRIC	
DRAWN: J.Jelavich	8/27/2019	SIZE	DWG NO.
CHECK: T.Anderson	8/28/2019	B	Y191203-691880
APPD: J.Jelavich	8/28/2019	SCALE	REV C
		SHEET 8 OF 22	





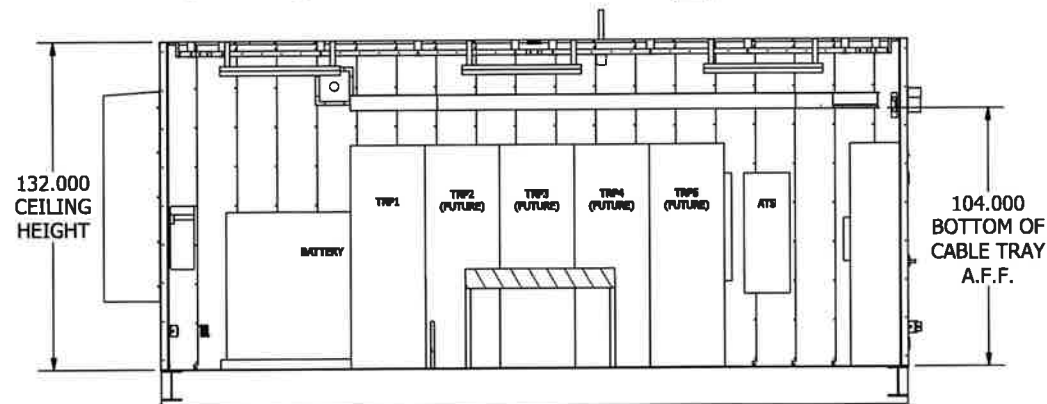
State of Colorado  
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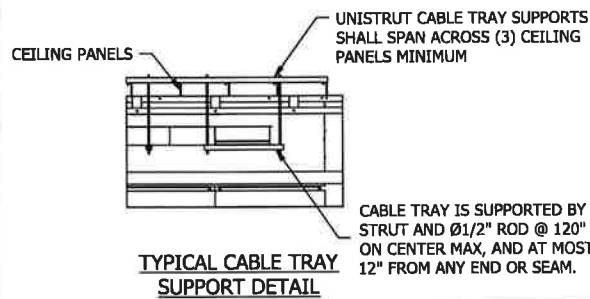


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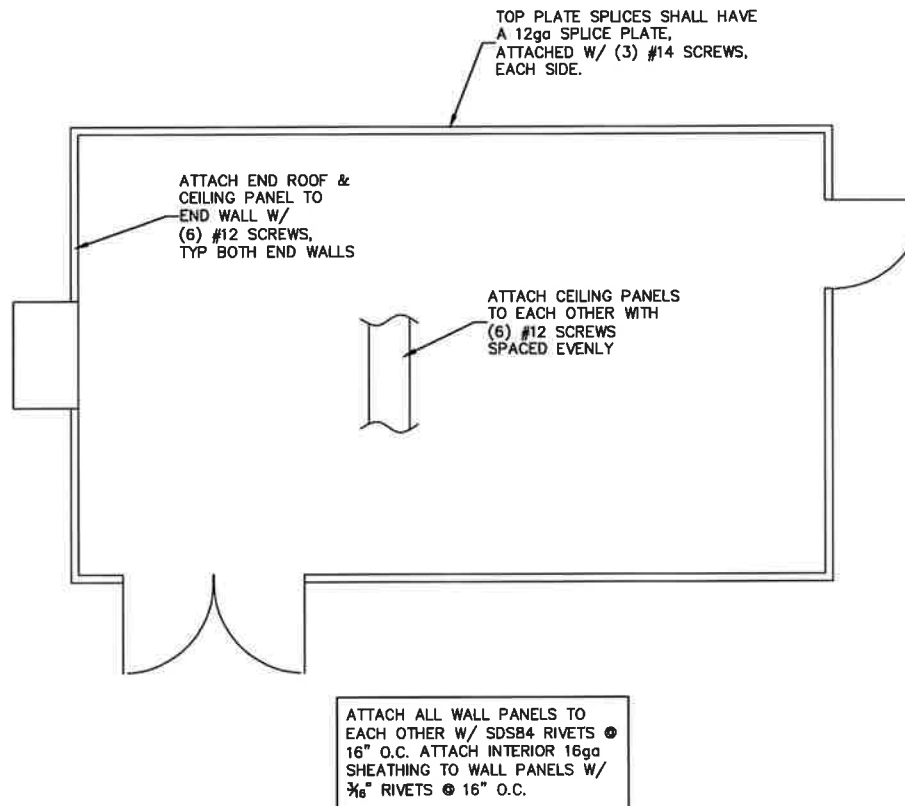


# SECTION F-F



STRUCTURE ONLY

<b>ESSMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING CABLE TRAY LAYOUT	
DRAWN: J.Jelavich	8/27/2019	SIZE B	DWG. NO. Y191203-691880
CHECK: T.Anderson	8/28/2019	SCALE	REV C
APPD: J.Jelavich	8/28/2019	SHEET 9 OF 22	



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## WALL/CEILING PANEL & ATTACHMENT SCHEDULE

JOB 691880

NO SCALE



STRUCTURE ONLY

<b>ESSMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING PANEL ATTACHMENT SCHEDULE	
DRAWN: J.Jelavich	8/27/2019	SIZE	DWG NO.
CHECK: T.Anderson	8/28/2019	B	Y191203-691880
APPD: J.Jelavich	8/28/2019	SCALE	REV C
			SHEET19 OF22



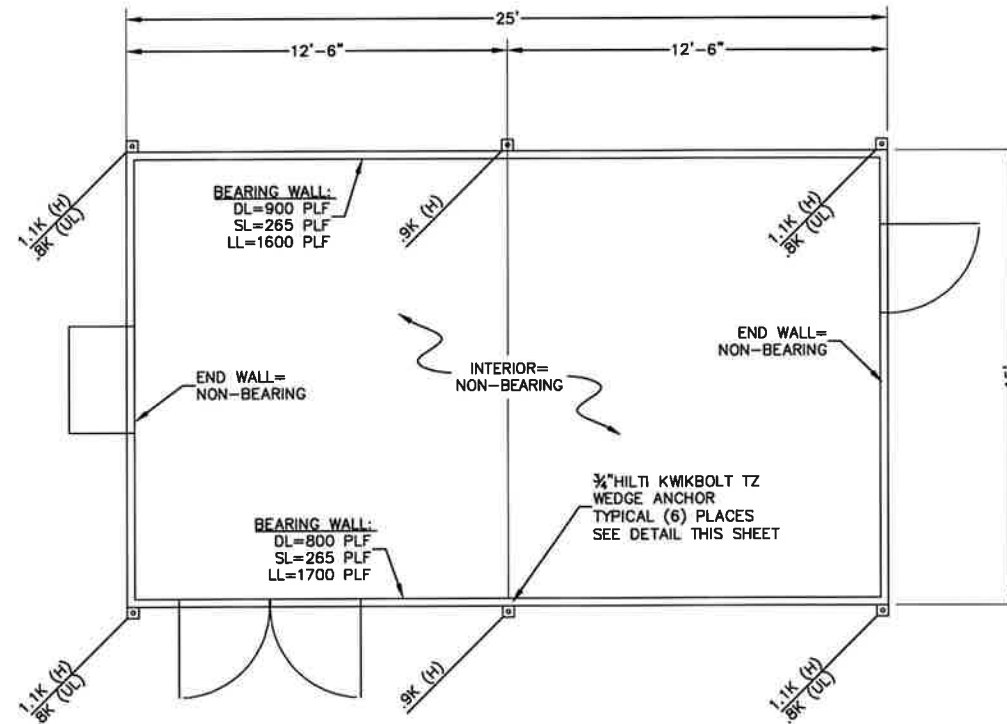
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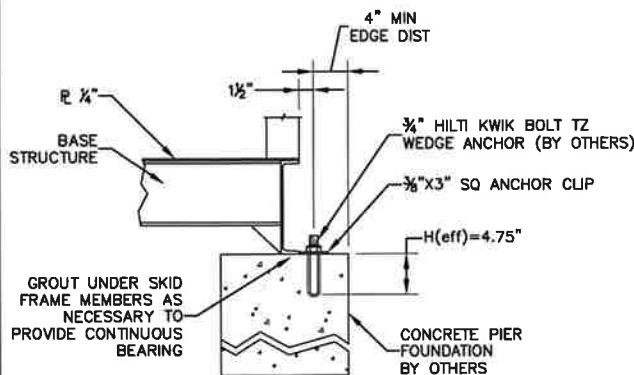
9281



## FOUNDATION LOADING PLAN

JOB 691880

DL = DEAD LOAD  
SL = ROOF SNOW LOAD  
LL = FLOOR LIVE LOAD  
H = HORIZONTAL WIND LOAD (ASD)  
UL = WIND UPLIFT (ASD)



## TYPICAL ANCHOR DETAIL

NO SCALE

### NOTES:

1. THIS PLAN IS FOR LOADING DATA ONLY, DIMENSIONS ARE ONLY APPROXIMATE AND SHALL BE VERIFIED WITH THE SKID GLAND OPENINGS/ANCHOR LOCATIONS PAGES.
2. FOUNDATION DESIGN BY OTHERS.
3. SHIMS MAY BE REQUIRED AROUND PERIMETER TO ENSURE PROPER LEVEL. IF SHIMS, LEVELING NUTS, OR OTHER METHODS ARE USED TO LEVEL THE SKID, THEN NON-SHRINK GROUT SHALL BE USED UNDER SKID FRAMING MEMBERS.
4. WITHOUT PROPER LEVEL, ESS METRON CANNOT BE RESPONSIBLE FOR PROPER DOOR OPERATION.
5. ANCHOR CLIPS FURNISHED BY ESS METRON
6. ANCHOR BOLTS AND NUTS BY INSTALLER
7. CONTINUOUS INSPECTION IS REQUIRED FOR ANCHORAGE INSTALLATION

<b>ESSMETRON</b> 1605 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING FOUNDATION LOADING PLAN	
<b>REV. 10-10-19</b>		SIZE B	DWG NO. Y191203-691880
DRAWN: J.Jelavich 8/27/2019	CHECK: T.Anderson 8/28/2019	APPD: J.Jelavich 8/28/2019	REV C
SCALE		SHEET21 OF22	

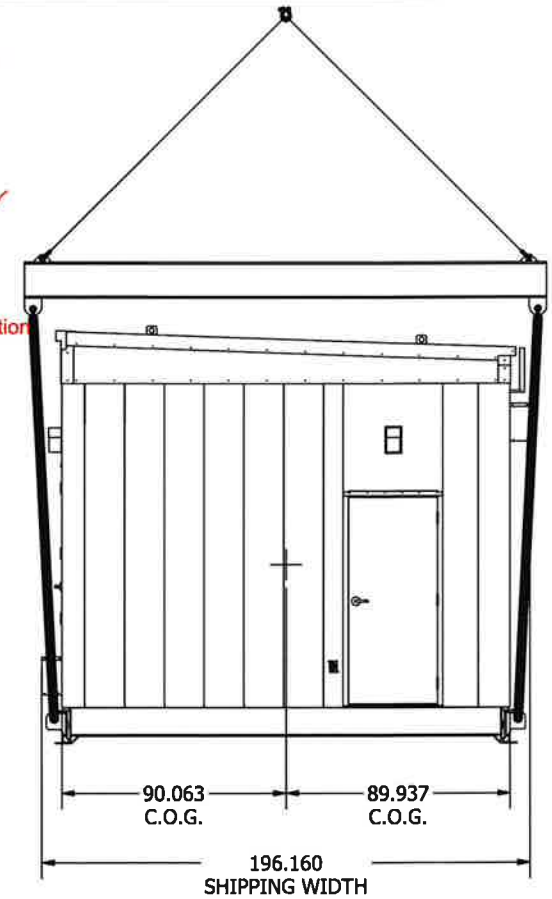
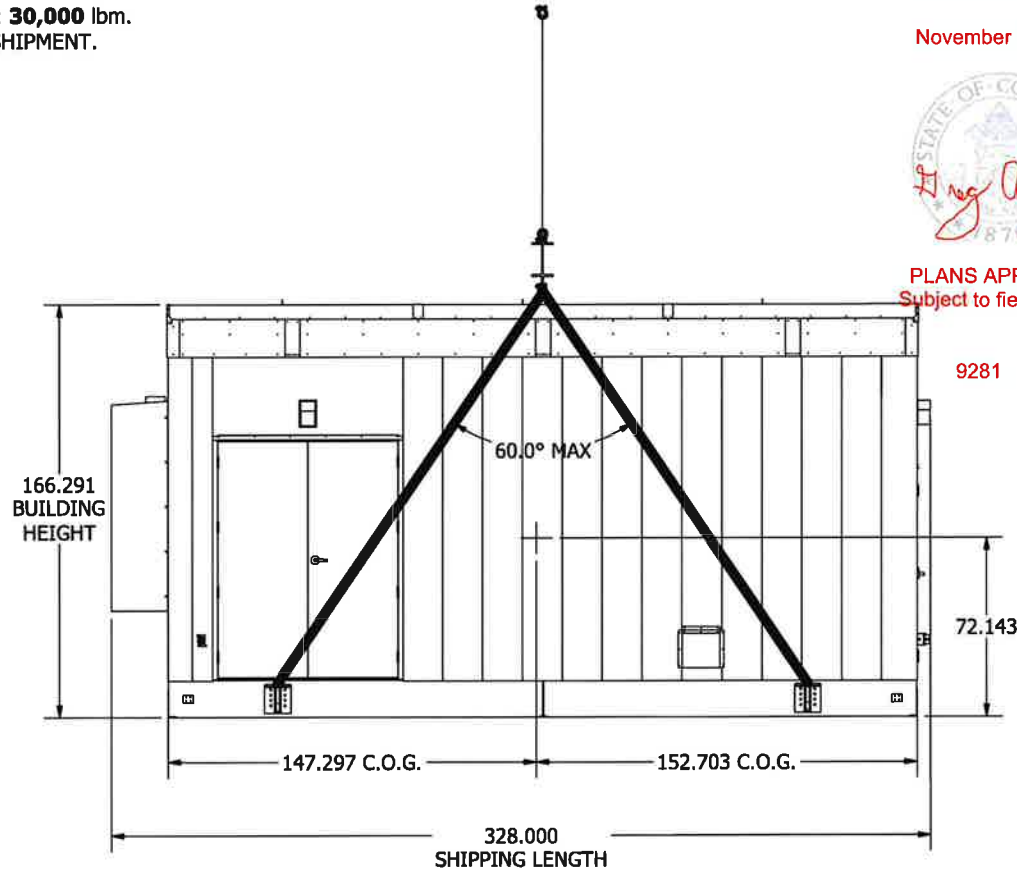
APPROXIMATE WEIGHT: **30,000** lbm.  
HVACS REMOVED FOR SHIPMENT.

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**NOTES:**

1. THIS DRAWING IS FOR REFERENCE ONLY.
2. SIZING OF SPREADER BAR, CABLES, STRAPS AND OTHER LIFTING DEVICES ARE THE RESPONSIBILITY OF OTHERS.
3. SUPPLY OF SPREADER BAR, CABLES, STRAPS AND OTHER LIFTING DEVICES ARE THE RESPONSIBILITY OF OTHERS.
4. TEST LIFT UNIT 6 TO 8 INCHES TO CHECK LEVEL BEFORE ATTEMPTING TO SET IN PLACE. THE UNIT MUST BE MAINTAINED LEVEL WHILE BEING LIFTED.
5. SLING ARRANGEMENT SHOULD BE ADJUSTED TO ALLOW FOR A LEVEL LIFT.
6. THIS BUILDING MUST BE LIFTED UTILIZING ALL OF THE LIFTING POINTS. NO END TO END LIFTING IS ALLOWED.
7. DURING LIFTING, ANGLE OF LIFTING SLING SHALL BE AS SHOWN IN ABOVE VIEW (SLINGS CAN GET LONGER). IF FOR SOME REASON THIS IS NOT POSSIBLE, LIFTING CONTRACTOR SHALL CONTACT ENGINEER FOR APPROVAL OF REVISED LIFTING METHOD.
8. THE BUILDING SHALL BE SUPPORTED AND LIFTED UTILIZING ALL LIFTING POINT LOCATIONS. EACH LIFTING LOCATION SHALL REMAIN LEVEL, WITHIN AN L/240" TOLERANCE WITH RESPECT TO ADJACENT LIFTING LOCATION DURING ALL SHIPPING AND MOVING OPERATIONS. L= DISTANCE BETWEEN SUPPORT LOCATIONS IN INCHES. NO END TO END LIFTING ALLOWED.



STRUCTURE ONLY

<b>ESSEMETRON</b> 1505 W. THIRD AVE DENVER CO 80223		MVEA MVEA YODER SUBSTATION POWER DISTRIBUTION CENTER MECHANICAL OUTLINE DRAWING LIFTING DETAILS	
DRAWN: J.Jelavich	8/27/2019	SIZE	DWG NO.
CHECK: T.Anderson	8/28/2019	B	Y191203-691880
APPD: J.Jelavich	8/28/2019	SCALE	REV C
		SHEET 122 OF 22	