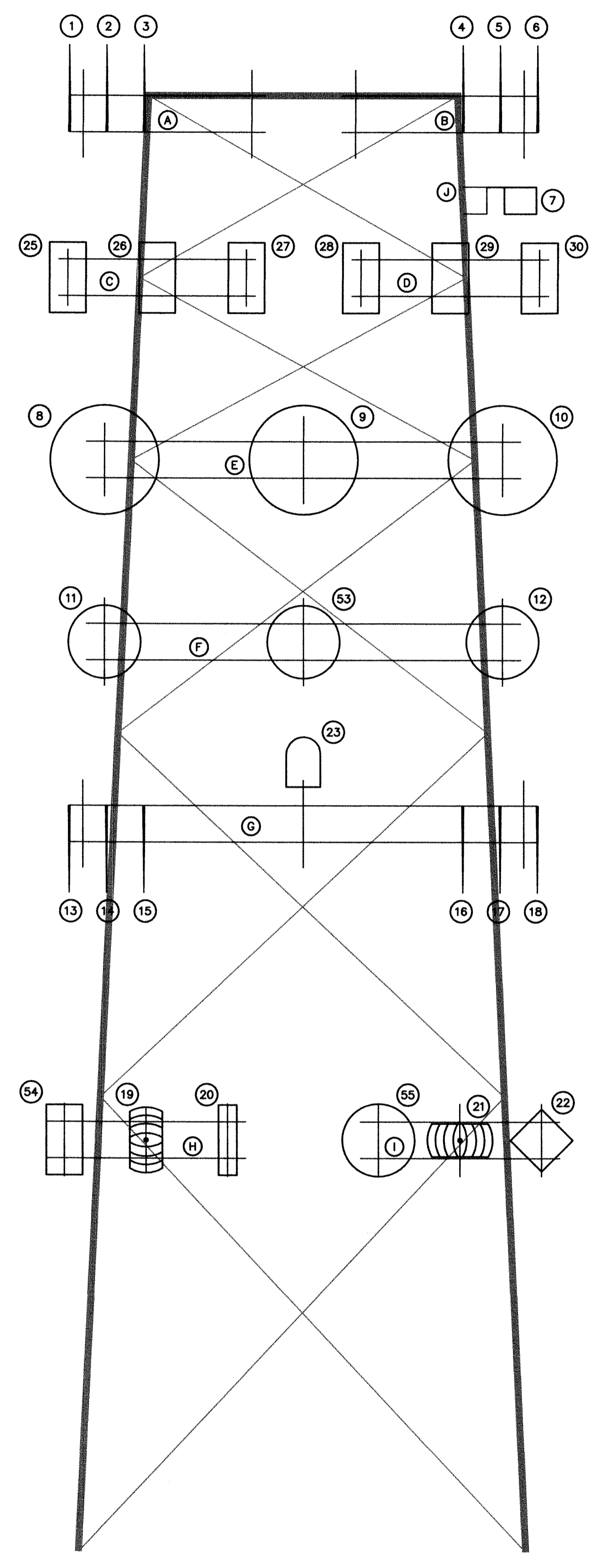
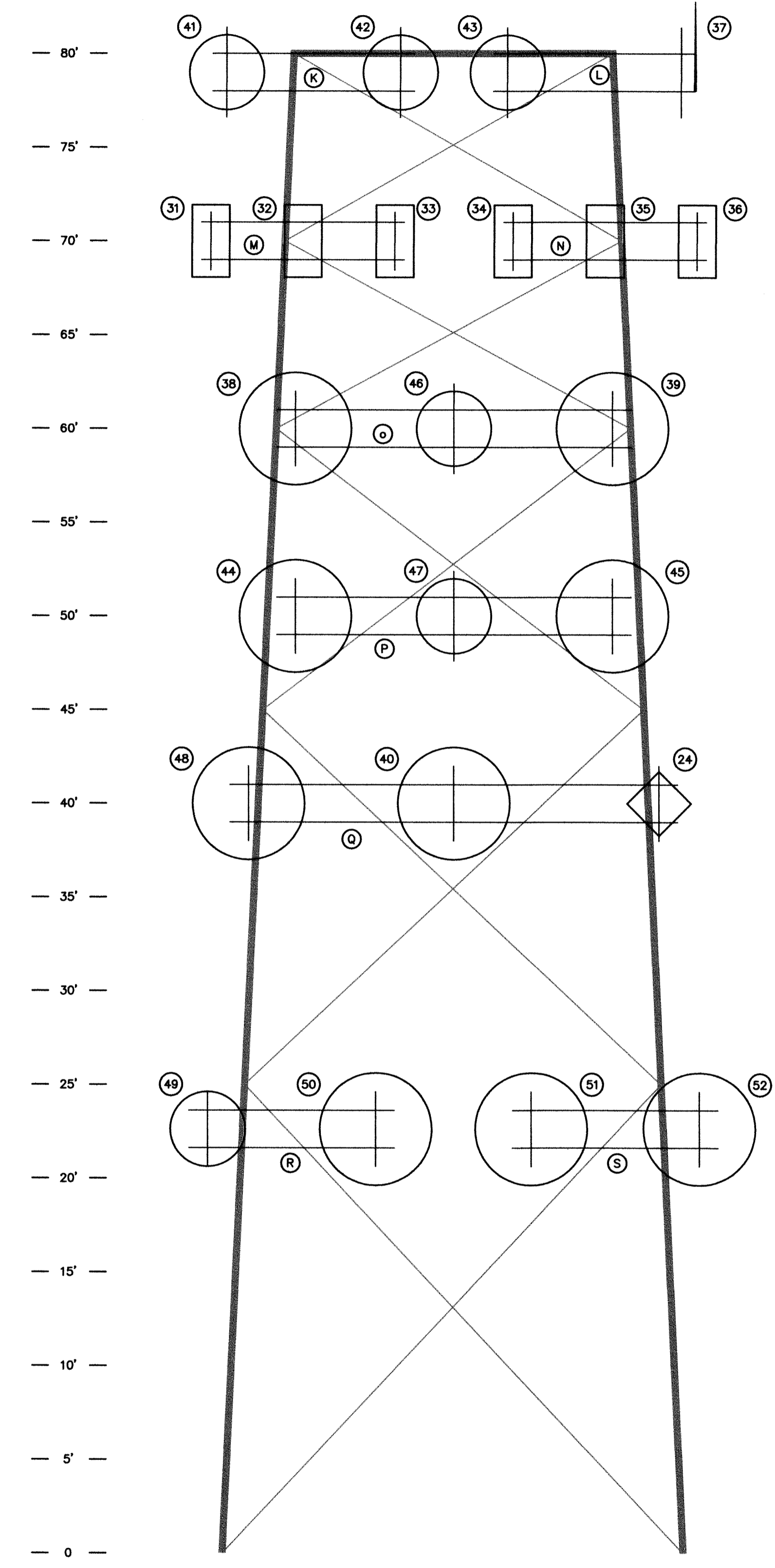


Tower Placement							
Number	Appurtenance	Equipment	Frequency	Direction	Cabling	Mounting	Height
1	VHF Dipole 10'	CC Sheriff Main VHF RX	155.9700MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	80
2	VHF Dipole 10'	CC Fire Main VHF RX	154.4300MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	80
3	VHF Dipole 10'	CC DPW Main VHF RX	155.8800MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	80
4	VHF Dipole 10'	CC Courthouse VHF RX		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	80
5	VHF Dipole 10'	Future VHF		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	80
6	VHF Dipole 10'	Future VHF		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	80
37	800 Mhz Dipole 3'	800MHZ EDACS		Omni	7/8" Coax	(L) 2 Pole Frame, Facing Northwest	80
41	24" Microwave Dish	Future Microwave		North	7/8" Coax	(K) 2 Pole Frame, Facing Northeast	80
42	24" Microwave Dish	Future Microwave		North	7/8" Coax	(K) 2 Pole Frame, Facing Northeast	80
43	24" Microwave Dish	Future Microwave		North	7/8" Coax	(L) 2 Pole Frame, Facing Northwest	80
7	Axis Q60 PTZ Dome PTZ Camera	PTZ Camera	N/A	N/A	1- Cat 6	(J) Single arm mount, Facing Southeast	75
25	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(C) 2 Pole Frame, Facing Southwest	70
26	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(C) 2 Pole Frame, Facing Southwest	70
27	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(C) 2 Pole Frame, Facing Southwest	70
28	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(D) 2 Pole Frame, Facing Southeast	70
29	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(D) 2 Pole Frame, Facing Southeast	70
30	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(D) 2 Pole Frame, Facing Southeast	70
31	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(M) 2 Pole Frame, Facing Northeast	70
32	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(M) 2 Pole Frame, Facing Northeast	70
33	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(M) 2 Pole Frame, Facing Northeast	70
34	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(N) 2 Pole Frame, Facing Northwest	70
35	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(N) 2 Pole Frame, Facing Northwest	70
36	LTE Sector Antenna	Future Public Safety LTE		30 Deg Sector	7/8" Coax	(N) 2 Pole Frame, Facing Northwest	70
8	6" Microwave Dish	NDOT Microwave	16/23GHZ	South	7/8" Coax	(E) 2 Pole Frame, Facing South	60
9	6" Microwave Dish	NDOT Microwave	16/23GHZ	South	7/8" Coax	(E) 2 Pole Frame, Facing South	60
10	6" Microwave Dish	NDOT Microwave	16/23GHZ	South	7/8" Coax	(E) 2 Pole Frame, Facing South	60
38	6" Microwave Dish	Future Microwave		North West	7/8" Coax	(O) 2 Pole Frame, Facing North	60
46	24" Microwave Dish	Future Microwave		North East	7/8" Coax	(O) 2 Pole Frame, Facing North	60
39	6" Microwave Dish	Future Microwave		North East	7/8" Coax	(O) 2 Pole Frame, Facing North	60
53	24" Microwave Dish	Future Microwave		South	7/8" Coax	(F) 2 Pole Frame, Facing South	50
11	24" Microwave Dish	Motorola PTP 800 SVP	11GHZ	230 Deg	7/8" Coax	(F) 2 Pole Frame, Facing South	50
12	24" Microwave Dish	Motorola PTP 800 CH	11GHZ	170 Deg	7/8" Coax	(F) 2 Pole Frame, Facing South	50
44	6" Microwave Dish	Future Microwave		North	7/8" Coax	(P) 2 Pole Frame, Facing North	50
45	6" Microwave Dish	Future Microwave		North	7/8" Coax	(P) 2 Pole Frame, Facing North	50
47	24" Microwave Dish	Future Microwave		North	7/8" Coax	(P) 2 Pole Frame, Facing North	50
23	18" Radome	SkyPilot Extender	4.9-5.8GHZ	Omni	2- Cat 6	(G) 2 Pole Frame, Facing South	42
24	12x12 Diamond Panel Antenna	NDOT Panel	3.65GHZ	North	2- Cat 6	(Q) 2 Pole Frame, Facing North	40
40	24" Microwave Dish	Future Microwave		North	7/8" Coax	(Q) 2 Pole Frame, Facing North	40
48	6" Microwave Dish	Future Microwave		North	7/8" Coax	(Q) 2 Pole Frame, Facing North	40
13	VHF Dipole 10' Inverted	CC Sheriff Main VHF TX	155.2500MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	40
14	VHF Dipole 10' Inverted	CC Fire Main VHF TX	153.8450MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	40
15	VHF Dipole 10' Inverted	CC DPW Main VHF TX	154.9800MHZ	Omni	7/8" Coax	(A) 2 Pole Frame, Facing Southwest	40
16	VHF Dipole 10' Inverted	CC Courthouse VHF TX		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	40
17	VHF Dipole 10' Inverted	Future VHF		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	40
18	VHF Dipole 10' Inverted	Future VHF		Omni	7/8" Coax	(B) 2 Pole Frame, Facing Southeast	40
49	6" Microwave Dish	Future Microwave		North	7/8" Coax	(R) 2 Pole Frame, Facing Northeast	40
50	6" Microwave Dish	Future Microwave		North	7/8" Coax	(R) 2 Pole Frame, Facing Northeast	40
51	6" Microwave Dish	Future Microwave		North	7/8" Coax	(S) 2 Pole Frame, Facing Northwest	40
52	6" Microwave Dish	Future Microwave		North	7/8" Coax	(S) 2 Pole Frame, Facing Northwest	40
54	24" Microwave Dish	Future Microwave		South	7/8" Coax	(H) Sector Frame, Facing Southwest	23
55	24" Microwave Dish	Future Microwave		South	7/8" Coax	(I) Sector Frame, Facing Southeast	23
22	12x12 Diamond Panel Antenna	Encom 5.8 Panel	5.8GHZ ISM	145 Deg	1- Cat 6	(I) Sector Frame, Facing Southeast	23
20	30" Sector Antenna	Encom 4.9 Sector	4.9GHZ PS	South	1- Cat 6	(H) Sector Frame, Facing Southwest	23
21	18x24 basket	Ubiquity 2.4 Dish V-POL	2.4GHZ ISM	163 Deg	1- Cat 6	(I) Sector Frame, Facing Southwest	23
19	18x24 basket	Ubiquity 2.4 Dish H-POL	2.4GHZ ISM	148 Deg	1- Cat 6	(H) Sector Frame, Facing Southeast	23

**LEGEND**



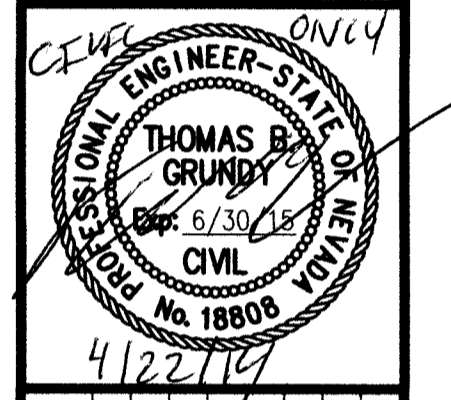
**SOUTH FACE**



**NORTH FACE**

DESIGNED BY: DA  
DRAWN BY: BD  
CHECKED BY: IG  
DWG NO.: DUCKCOMB1  
SCALE (HORIZ): AS SHOWN  
SCALE (VERT):  
PLOT DATE: 2014 FEB 27

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 887-2355 FAX: 887-2112



REV.	DATE	DESCRIPTION	BY	APP'D

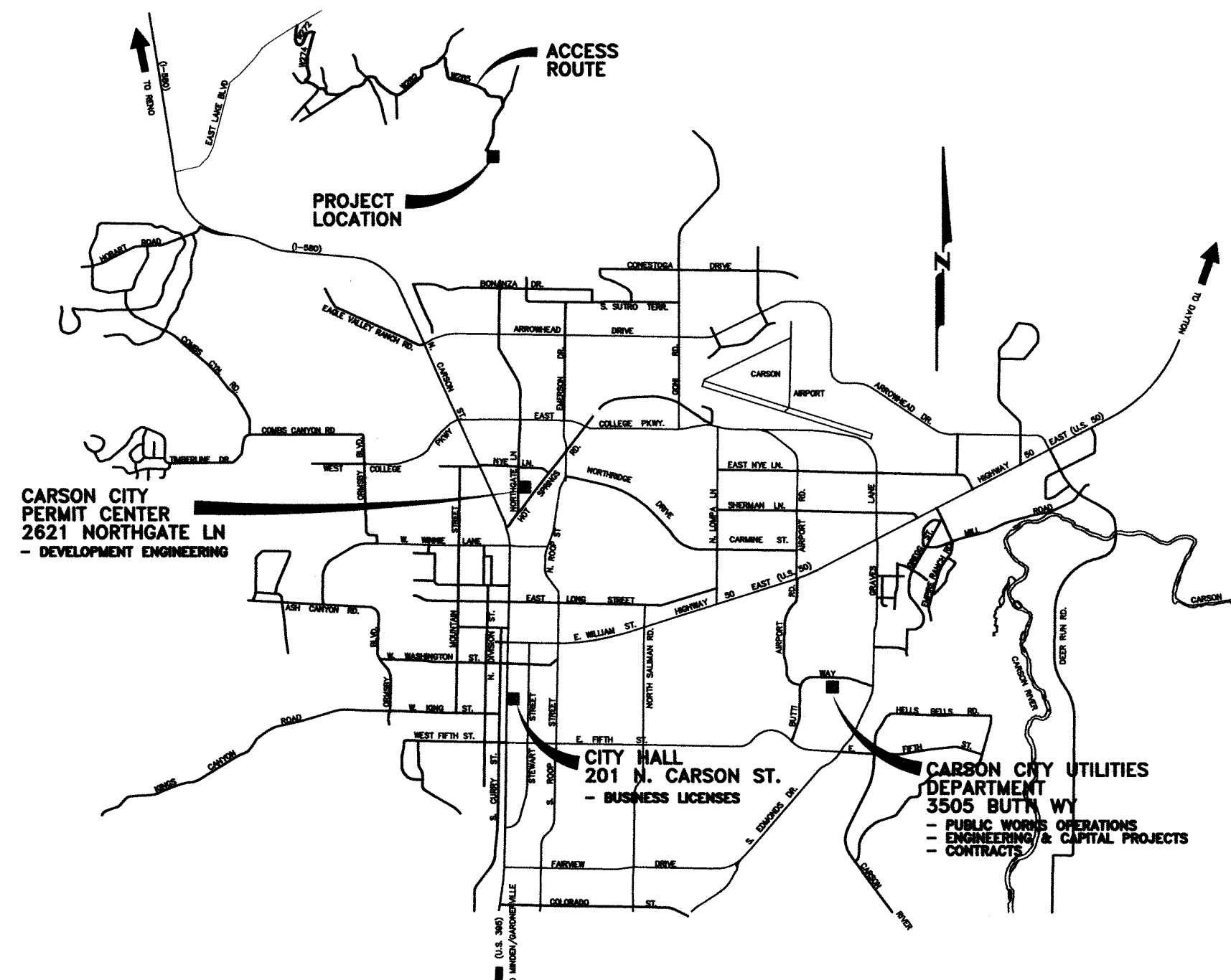
**SUGARLOAF COMMUNICATIONS TOWER SITE**  
**TOWER DETAILS**

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# SUGARLOAF COMMUNICATIONS SITE

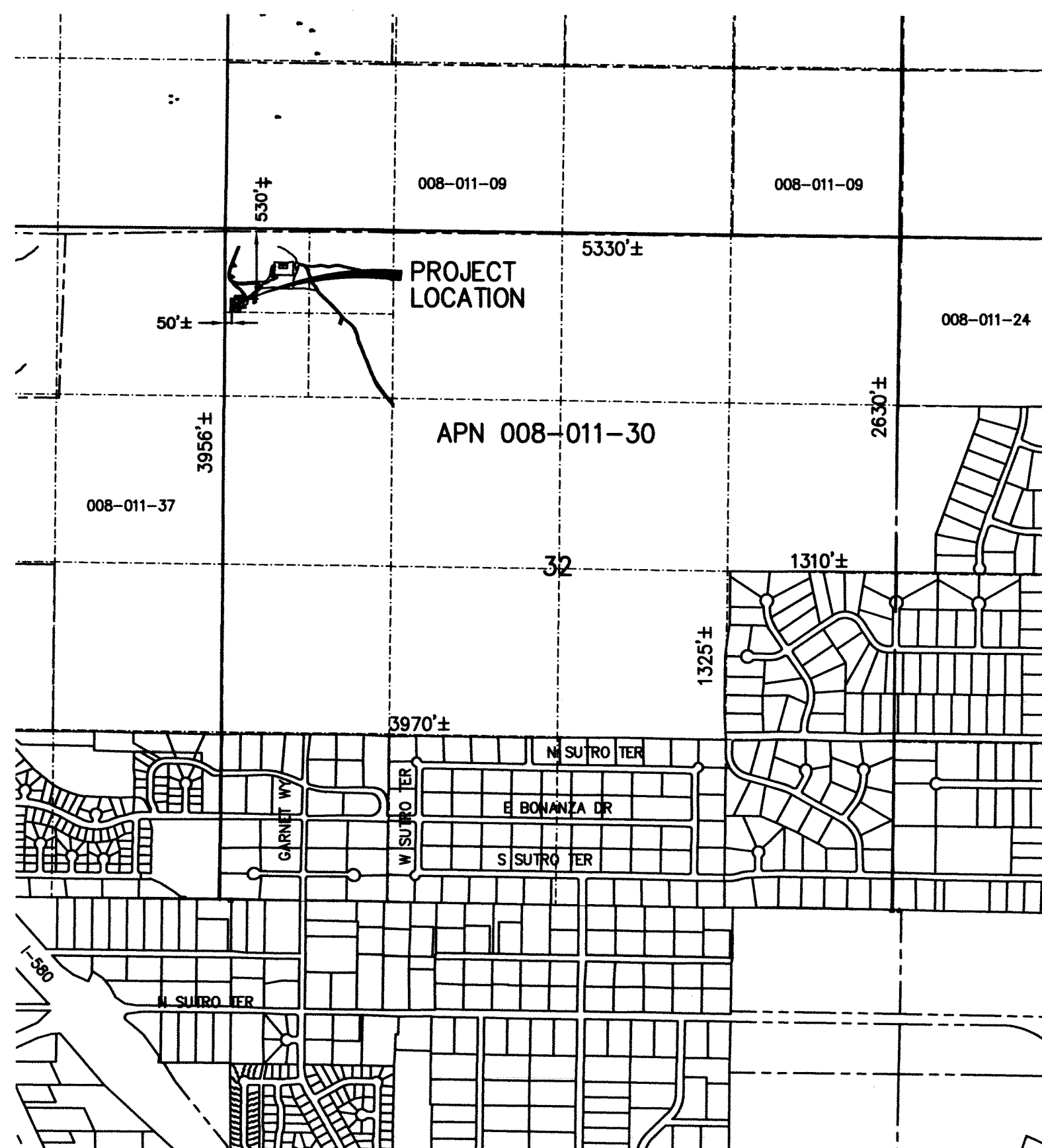
## 250 CONESTOGA DRIVE

### CARSON CITY, NEVADA



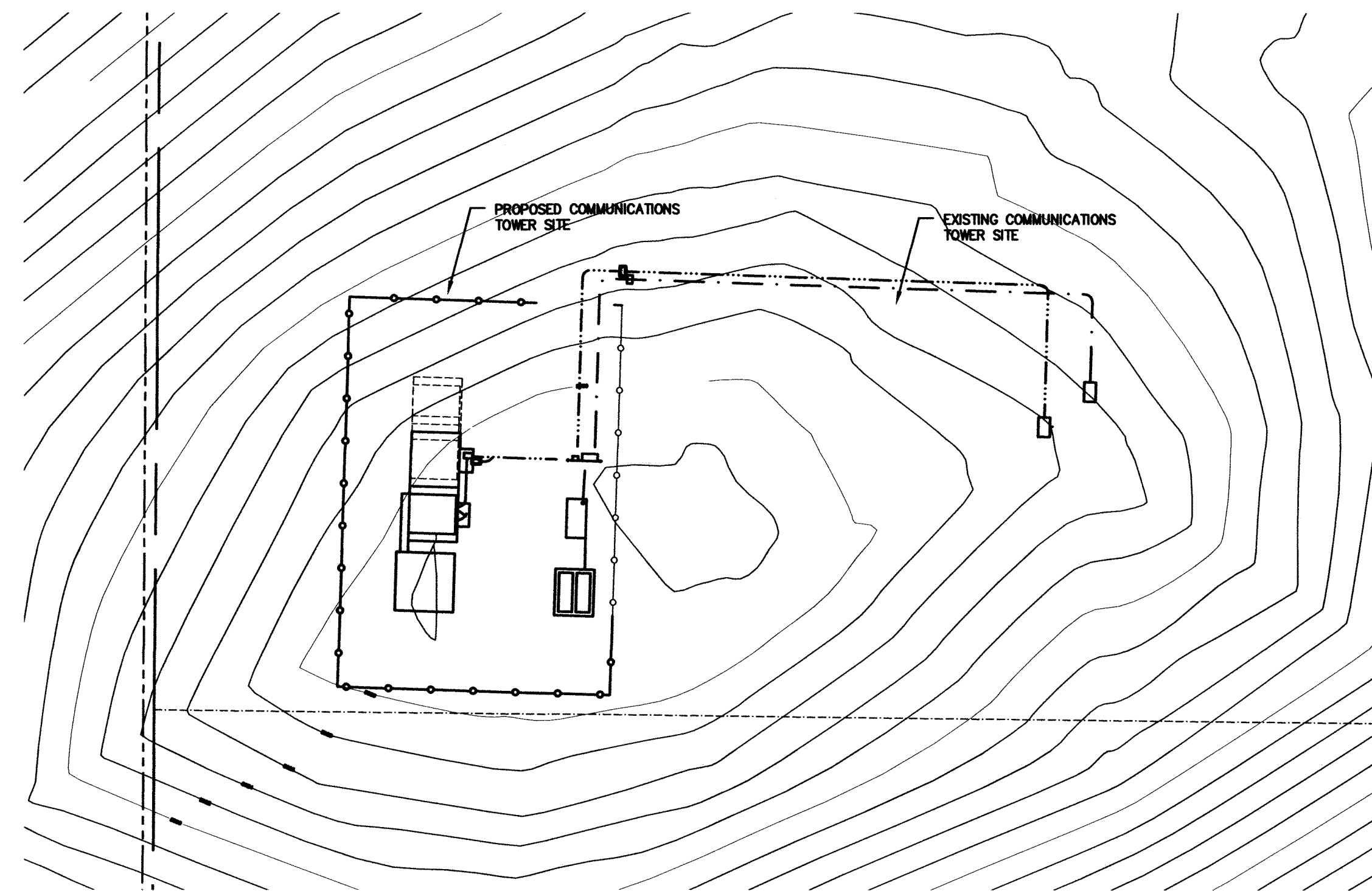
**VICINITY MAP**

N.T.S.



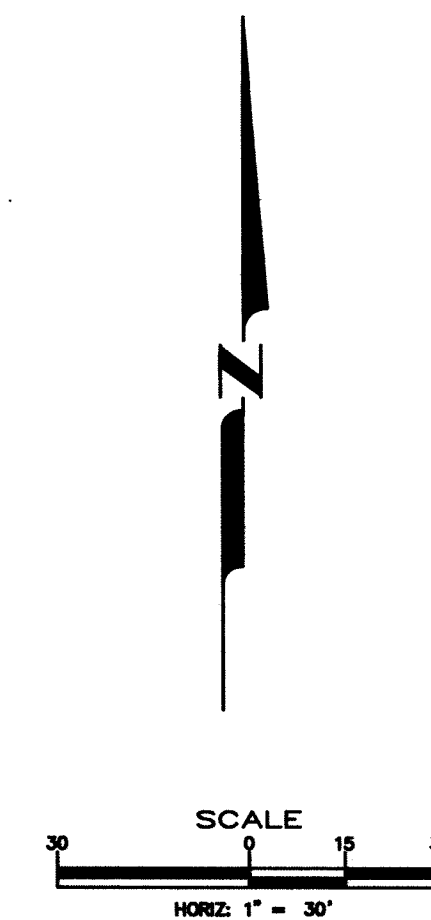
**PROJECT LOCATION**

N.T.S.



**PROPOSED SITE**

N.T.S.



**APPLICANT:**

CARSON CITY PUBLIC WORKS DEPT.  
OPERATIONS DIVISION  
3505 BUTTI WAY  
CARSON CITY, NV 89701  
DARREN ANDERSON (775) 283-7584

**OWNER:**

USA / BLM  
LEASE HOLDER : CARSON CITY

**REQUEST:**

SPECIAL USE PERMIT FOR CONSTRUCTION  
OF NEW COMMUNICATIONS TOWER

**LOCATION:**

250 CONESTOGA DR.  
N/W 1/4 OF THE NW 1/4 OF SEC. 32  
T 16 R 20 M.D.B. & M.

**PARCEL NUMBER:**

008-011-30

**ZONING:**

PR - PUBLIC REGIONAL

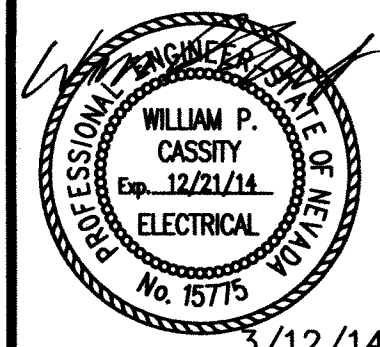
**SHEET INDEX**

- 1 ..... TITLE SHEET
- 2 ..... PANEL PLAN & ELEVATIONS, SINGLE LINE  
DIAGRAM & LOAD CALCS
- 3 ..... UTILITY & GROUNDING PLAN
- 4 ..... TYPICAL ELECTRICAL DETAILS

DESIGNED BY: WFC  
DRAWN BY: WFC  
CHECKED BY: WFC  
DWG NO.:  
SCALE (HORIZ): AS SHOWN  
SCALE (VERT):  
PLOT DATE:

**CARSON CITY  
PUBLIC WORKS DEPARTMENT**

3505 BUTTI WAY CARSON CITY, NEVADA 89701  
PH: 887-2355 FAX: 887-2112



3/12/14

REV.	DATE	DESCRIPTION	BY APP'D

**FARR WEST**  
ENGINEERING

5442 LONGLEY LANE, SUITE B  
CARSON CITY, NV 89701  
PHONE: (775) 851-4788  
FAX: (775) 851-0766

SUGARLOAF COMM SITE  
250 CONESTOGA DRIVE

TITLE SHEET

SHEET  
**1**  
OF  
**4**

P:\Client Projects\Carson City, City of 115\0818 Carson City Electrical Design\10.0 Drawings\11 DWG\0818-CARSON PUBLIC WORKS-SUGARLOAF-ELECTRICAL.dwg

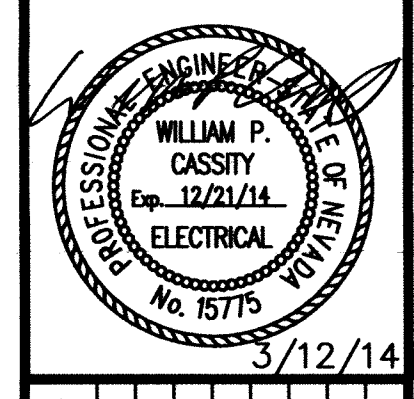


CONDUIT & WIRE SCHEDULE			
RUN	CONDUIT (1)	WIRE	DESCRIPTION
Δ	4" PVC-40	4-NVE SUPPLIED CONDUCTORS	FEEDER FOR 200AMP/240V SERVICE FROM NVE TRANSFORMER TO METER PANEL
Δ	2" RMC-PVC/PVC-40	(4)-3/0 AWG 1/0 AWG	FEEDER FROM METER PANEL TO GENERATOR ATS
Δ	2" RMC-PVC/PVC-40	-	TELCO/DATA TO BLDG 1
Δ	2" RMC-PVC/PVC-40	-	TELCO/DATA TO BLDG 2
Δ	2" RMC-PVC/PVC-40	-	TELCO/DATA TO BLDG 3
Δ	2" RMC-PVC/PVC-40	(4) 3/0 & 1/0 GND	LP TO BLDG 1
Δ	(2) 2" RMC-PVC/PVC-40	PULLROPE	LP TO BLDG 2 & 3 (F)
Δ	(2) 4" PVC-40	PULLROPE	ATT SERVICE
Δ	1/2" x 8" GROUND ROD	CU ROD	GROUNDING ROD FOR EQUIPMENT, BONDED TO FRAMEWORK
Δ	3/4" RMC-PVC	1/0 CU	METER PANEL GROUND
Δ	2.5" RMC-PVC/PVC-40/0	(4) 3/0 & 1/0 GND	ATS TO GENSET - POWER
Δ	1 1/2" RMC-PVC/PVC-40/0	(4) #10 & #10 GND (6) #12 & #12 GND	ATS TO GENSET - HTR/BATT
Δ	2" RMC-PVC/PVC-40/0	PULL ROPE	GENSET TO BUILDING
Δ	2" RMC-PVC/PVC-40/0	PULL ROPE	ATS TO GENSET

① RMC-PVC MEANS RIGID METAL CONDUIT WITH A PVC FACTORY COATING INSIDE AND OUT. ACCEPTABLE MANUFACTURERS INCLUDE OCAL, ROBROY OR PERMACOTE. THE USE OF PVC TAPE WRAPPED OR APPLIED ON RMC CONDUIT IS NOT ACCEPTABLE.

DESIGNED BY: WPC  
 DRAWN BY: WPC  
 CHECKED BY: WPC  
 DWG NO.: AS SHOWN  
 SCALE (HORIZ): AS SHOWN  
 SCALE (VERT): AS SHOWN  
 PLOT DATE:

CARSON CITY  
 PUBLIC WORKS DEPARTMENT  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 887-2355 FAX: 887-2112

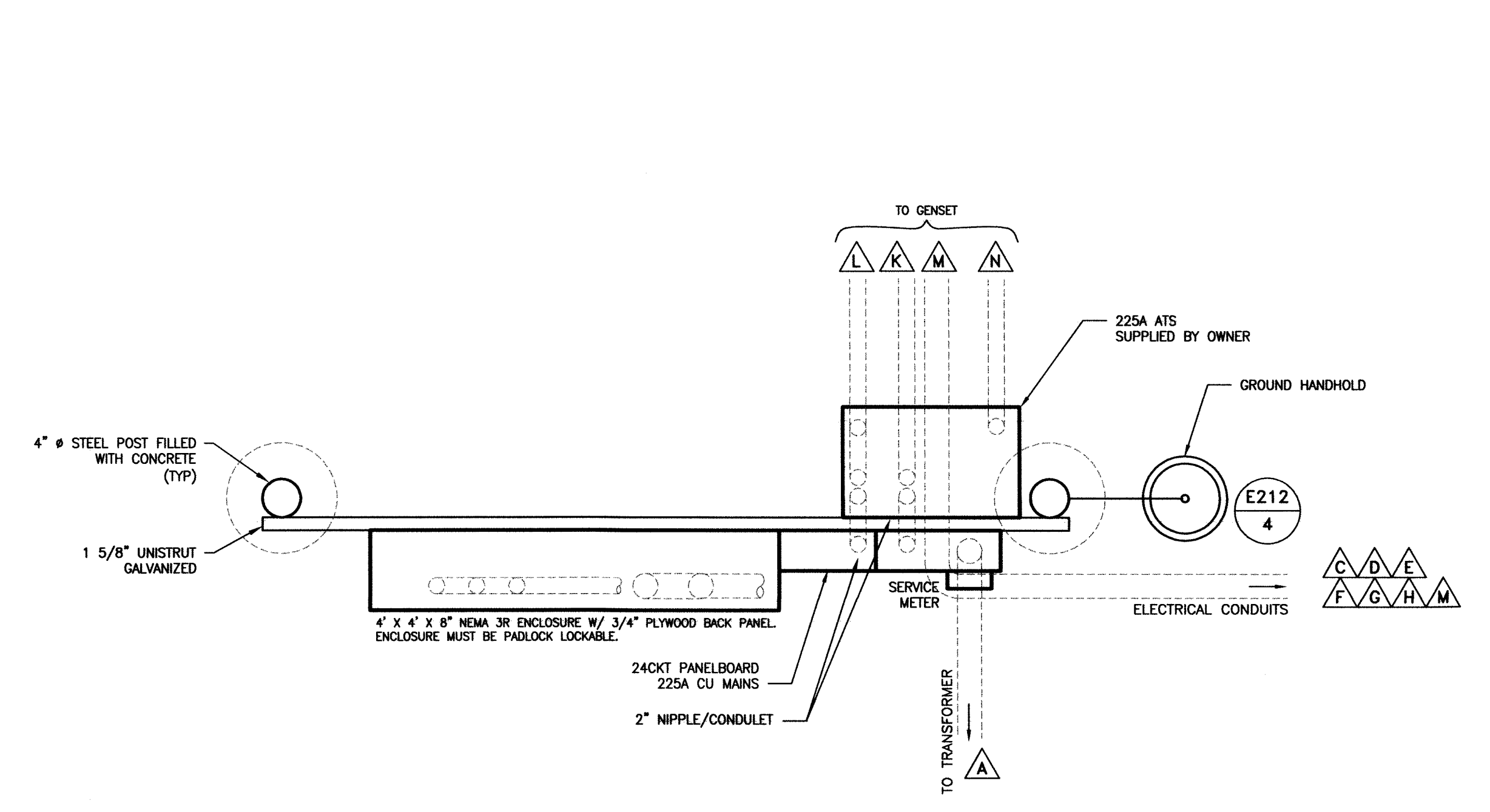


REV	DATE	DESCRIPTION	BY	APP'D
1	3-14	CHANGE TO 3Ø SERVICE	IBC	IBC

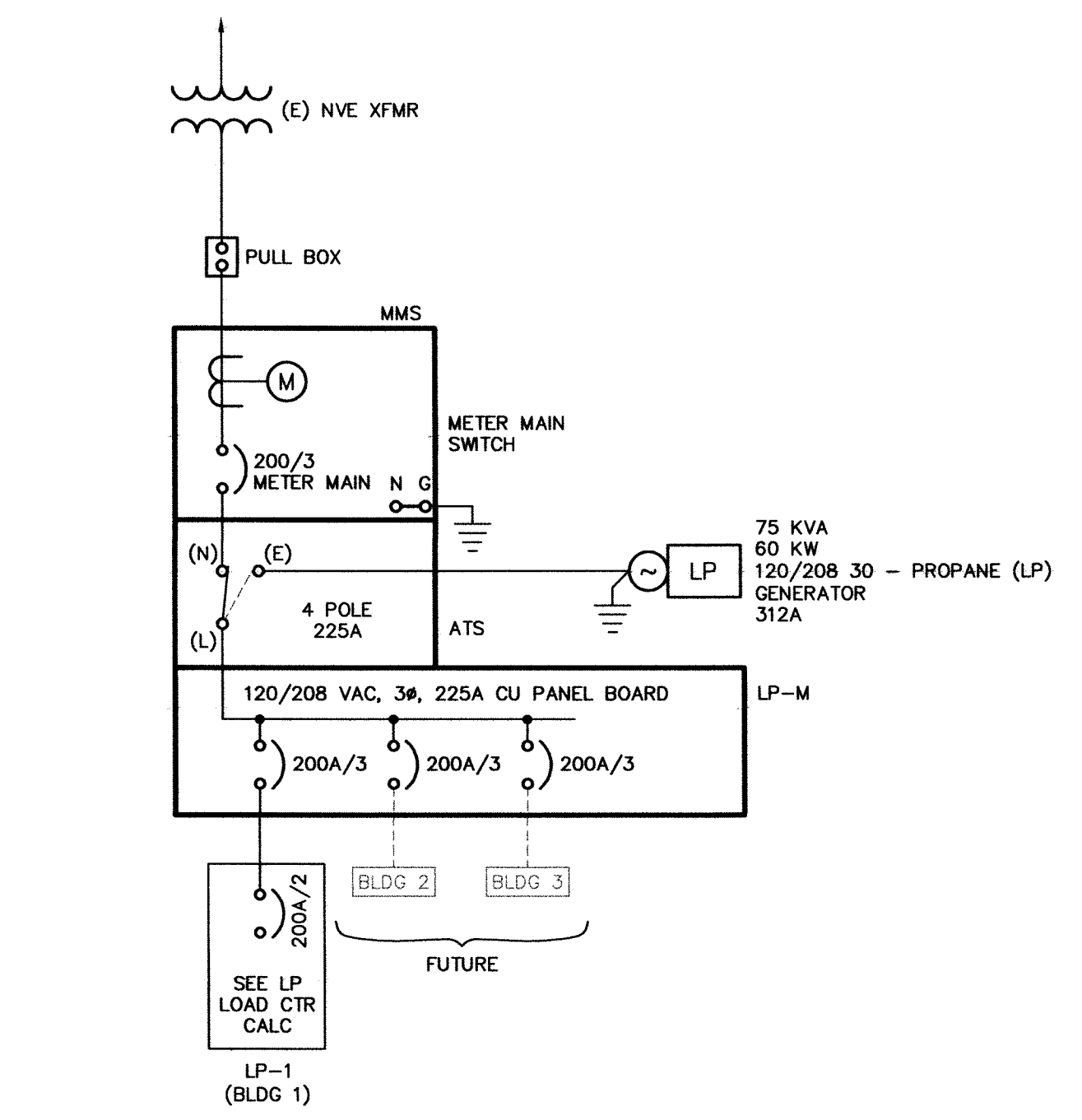
**FARR WEST**  
 ENGINEERING  
 5442 LONGLEY LANE, SUITE B  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0766

SUGARLOAF COMM SITE  
 250 CONESTOGA DRIVE  
 PANEL PLAN & SINGLE LINE ELEVATIONS, SINGLE LINE DIAGRAM & LOAD CALCS

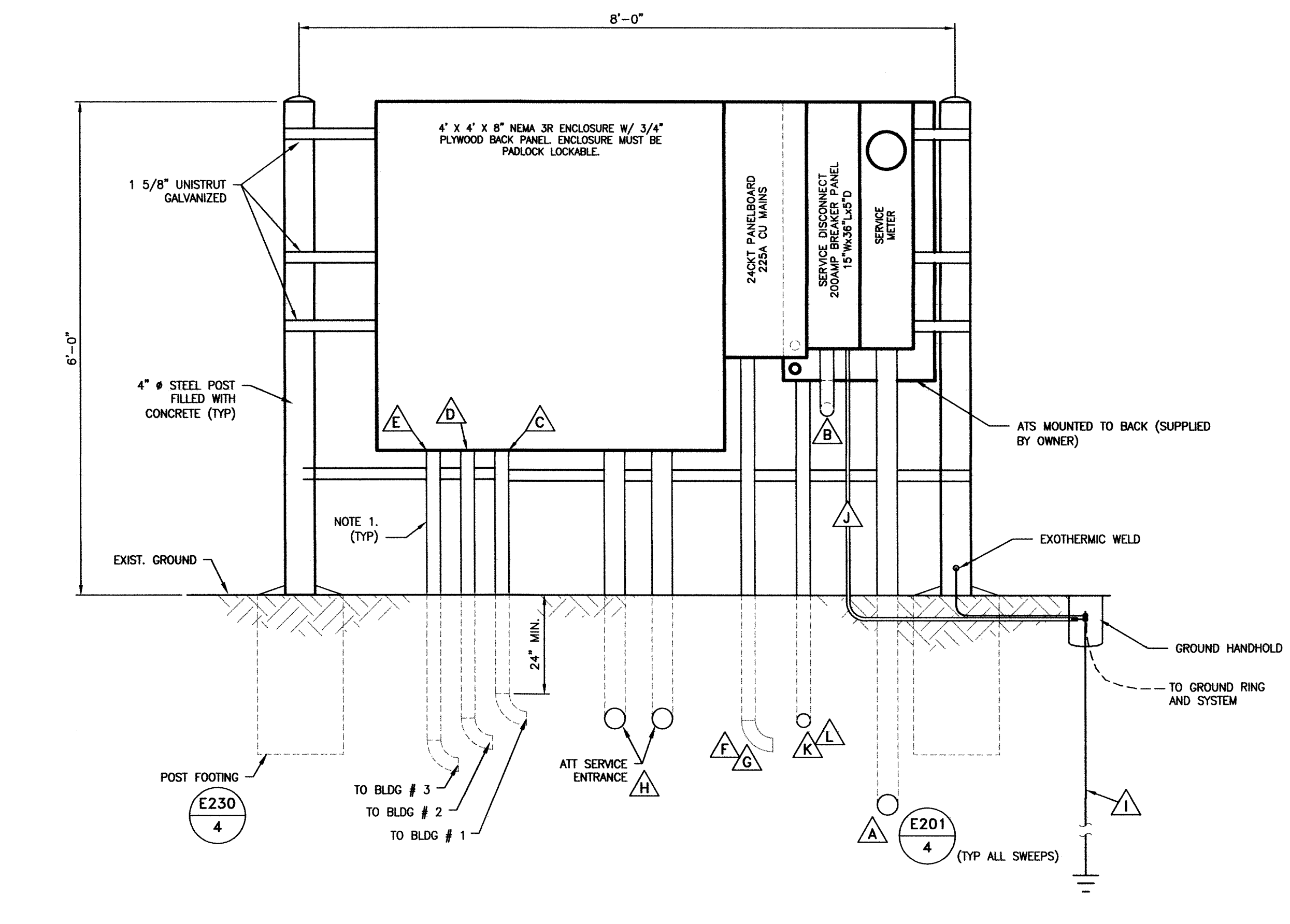
SHEET  
 2  
 OF  
 4



METER & TELEMETRY PANEL PLAN (1)  
 NOT TO SCALE



SINGLE LINE DIAGRAM (3)  
 NOT TO SCALE



METER & TELEMETRY PANEL ELEVATION (2)  
 LOOKING NORTH  
 NOT TO SCALE

SITE LOAD CALCULATION							
LOAD CENTER: MMS / LP-M 120/240 VAC, 3 PHASE SERVICE							
FED FROM: UTILITY/ATS		CONNECTED		UTILITY		GENERATOR	
EQUIPMENT NUMBER	EQUIPMENT DESCRIPTION	LOAD (AMPS)	QTY	LOAD (KVA)	RUN QTY	RUN (KVA)	RUN (KVA)
BLDG 1	Bldg Loads per LP schedule	63.9	1	15.3	1	15.3	26.6
BLDG 2 (F)	Bldg Loads per LP schedule	63.9	1	15.3	1	15.3	26.6
BLDG 3 (F)	Bldg Loads per LP schedule	63.9	1	15.3	1	15.3	26.6
SUBTOTAL				46.00		46.00	79.7
LARGEST MOTOR @ 25%		N/A	HP			1.20	SIZE 60 KW
TOTAL						47.20	75 KVA
DIVERSITY FACTOR		100.0%					90 A
1 PHASE CURRENT		197 AMPS		100% MAXIMUM LOAD CURRENT		106.2% LOADED	
CALCULATED SERVICE SIZE		200 AMPS		200 AMPS			
% MAIN BREAKER LOAD		98.3%					

LP-1 LOAD CENTER - TYPICAL OF UP TO 3 BUILDINGS											
LOCATION	MCC	VOLTAGE	TRIM FLUSH	PHASE LOADS			CB	VA	LOAD	CKT	NOTES
				A	B	C					
1	LIGHTS	192	20/1	2472			40/2 (H)	2280	HVAC 20K BTU/HR	2	
3	OUTLETS 1	1500	20/1		3780			2280		4	
5	OUTLETS 2	1500	20/1					1200		6	
7	VENTILATION	200	20/1	1400		2700	20/2	1200	100W RADIO	8	
9	GFI OUTLET	180	20/1		1380			1200		10	
11	SPACE / SPARE		20/1			1200	20/2	1200	100W RADIO	12	
13	SPACE / SPARE		20/1	1200				1200		14	
15	SPACE / SPARE		20/1		1200		20/2	1200		16	
17	SPACE / SPARE		20/1			0	20/1		SPACE / SPARE	18	
19	SPACE / SPARE		20/1	0			20/1		SPACE / SPARE	20	
21	SPACE / SPARE		20/1	0	0		20/1		SPACE / SPARE	22	
23	SPACE / SPARE		20/1	0		0	20/1		SPACE / SPARE	24	
25	SPACE / SPARE		20/1	0			20/1		SPACE / SPARE	26	
27	SPACE / SPARE		20/1		0		20/1		SPACE / SPARE	28	
29	SPACE / SPARE		20/1			0	20/1		SPACE / SPARE	30	
31	SPACE / SPARE		20/1	0			20/1		SPACE / SPARE	32	
33	SPACE / SPARE		20/1		0		20/1		SPACE / SPARE	34	
35	SPACE / SPARE		20/1			0	20/1		SPACE / SPARE	36	
37	SPACE / SPARE		20/1	0		0	20/1		SPACE / SPARE	38	
39	SPACE / SPARE		20/1		0		20/1		SPACE / SPARE	40	
41	SPACE / SPARE		20/1			0	20/1		SPACE / SPARE	42	

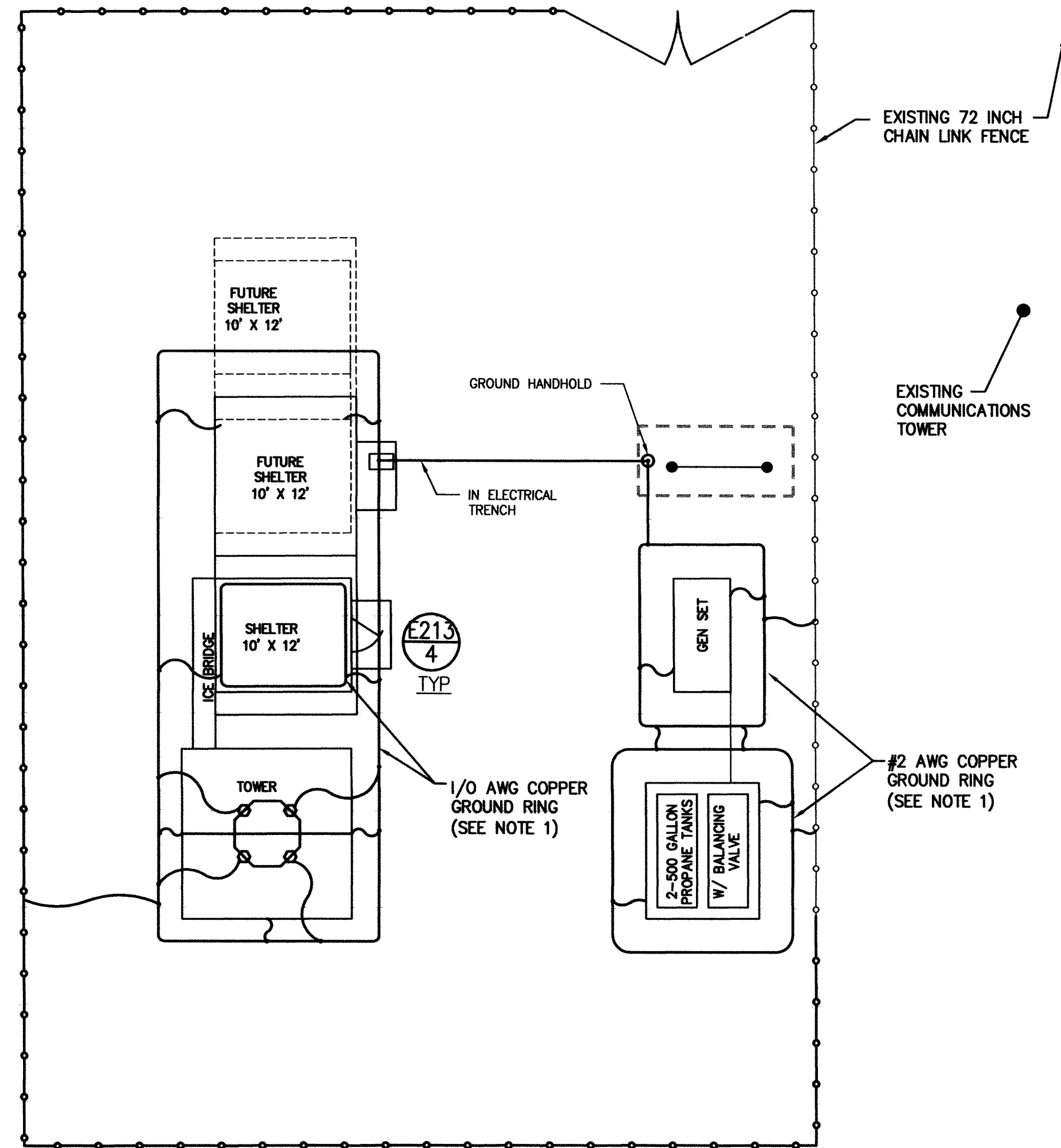
NOTES		PHASE LOADS		AVERAGE	
(L)	ALL CBs SHALL HAVE LOCKOUT PROVISIONS	5072 VA	6360 VA	3900 VA	5.1 KVA
(H)	HVAC RATED BREAKER - VERIFY ACTUAL OCPD SETTING BASED ON UNIT SELECTED	99%	124%	76%	3.6 KVA/LOAD

UTILITY DIVISION OF WORK		
RESPONSIBILITY		
	CONTRACTOR	UTILITY
POWER POLES		X
PRIMARY CONDUITS	X	
PRIMARY CONDUCTORS		X
TRANSFORMER PAD	X	
TRANSFORMER		X
BOLLARDS	X	
SECONDARY CONDUITS	X	
SECONDARY CONDUCTORS		X
TRANSFORMER CONNECTIONS		X
UTILITY METER		X
C/T ENCLOSURE		X
CURRENT AND VOLTAGE XFMRs		X
PULLBOXES / VAULTS	X	
LOAD BREAK SWITCHES	X	
X - INDICATES RESPONSIBILITY		
UTILITY INFORMATION		
UTILITY PROJECT NUMBER	NV ENERGY	
POINT OF CONTACT	ONE OHM PLACE	
ADDRESS	RENO, NV	
CITY, STATE, ZIP		
VOICE		
FAX		
EMAIL		
TELEPHONE / DATA		
TELCO / DATA PROVIDER		
PROJECT NUMBER		
POINT OF CONTACT		
ADDRESS		
CITY, STATE, ZIP		
VOICE		
FAX		
EMAIL		

**NOTES**

- All work performed by the Contractor under this section must conform to the utility standards. If a conflict between the Utility standards and details shown on this plan set exist, the Utility standards and requirements shall take precedence.
- Contractor shall review the Utility Engineered Drawings prior to commencing work for the Utility service. No change orders or charges will be accepted or allowed if Contractor begins work prior to reviewing and meeting with Utility Representatives onsite.
- Contractor shall submit service entrance equipment and conduits for Utility review and acceptance prior to ordering. The approval of this equipment must be submitted to the owner as proof of acceptance by the Utility.
- The Contractor shall schedule, coordinate and attend all required inspections, tests or meetings, as required by the Utility. All work must be performed in full compliance with Utility requirements or directives. These inspections, tests and meetings are in addition to any items required under this contract but shall be covered by the Contractor.

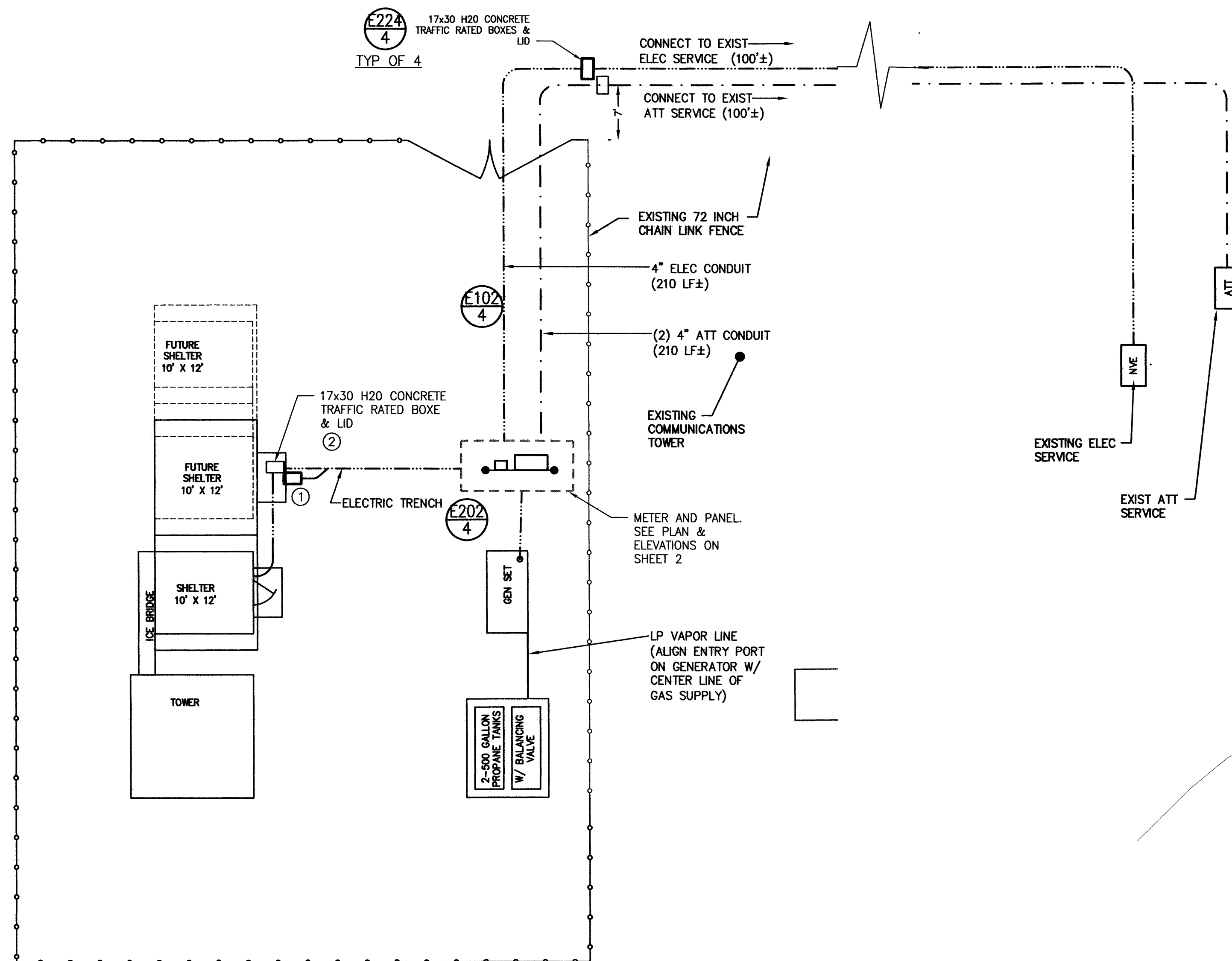
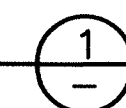
P:\Client Projects\Carson City, City of 11510888 Carson City Electrical Design\G. Dominguez\1. DMV\0888-CARSON PUBLIC WORKS\SUGARLOAF ELECTRICAL.dwg



**GROUNDING NOTES:**

- GROUND RING SHALL BE 1/0 AWG OR LARGER BARE COPPER CONDUCTOR BURIED AT LEAST 30 INCHES BELOW FINISHED GRADE. ONLY EXOTHERMIC WELDS SHALL BE USED BELOW GRADE.
- TOWER AND SHELTER GROUND RING SHALL BE BONDED TOGETHER IN AT LEAST TWO LOCATIONS.
- GROUND RING SHALL BE INSTALLED AT LEAST 2 FEET FROM BUILDING FOUNDATION.
- CONTRACTOR TO TAKE PHOTOS OF OPEN TRENCHES W/ GROUND WIRE & PROVIDE TO CONSTRUCTION MANAGER.

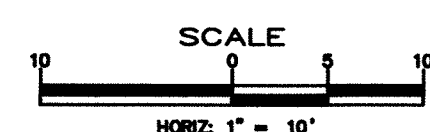
**GROUNDING PLAN**  
SCALE: 1"=10'



**NOTES:**

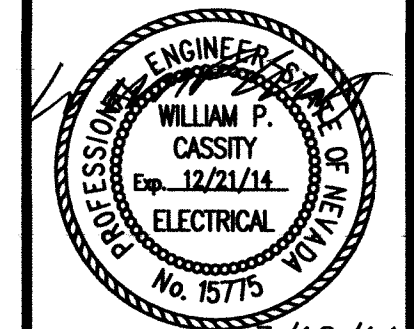
- REFER TO CONDUIT & WIRE SCHEDULE ON SHEET 2.
- SIGNAL & POWER PULL BOXES POWER CONDUITS "F" & "G". ALL OTHER CONDUITS ARE SIGNAL CONDUITS

**SITE PLAN**  
SCALE: 1"=10'



DESIGNED BY: WPC  
 DRAWN BY: WPC  
 CHECKED BY: WPC  
 DWG NO.: AS SHOWN  
 SCALE (HORIZ): AS SHOWN  
 SCALE (VERT): AS SHOWN  
 PLOT DATE:

**CARSON CITY  
 PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 887-2355 FAX: 887-2112



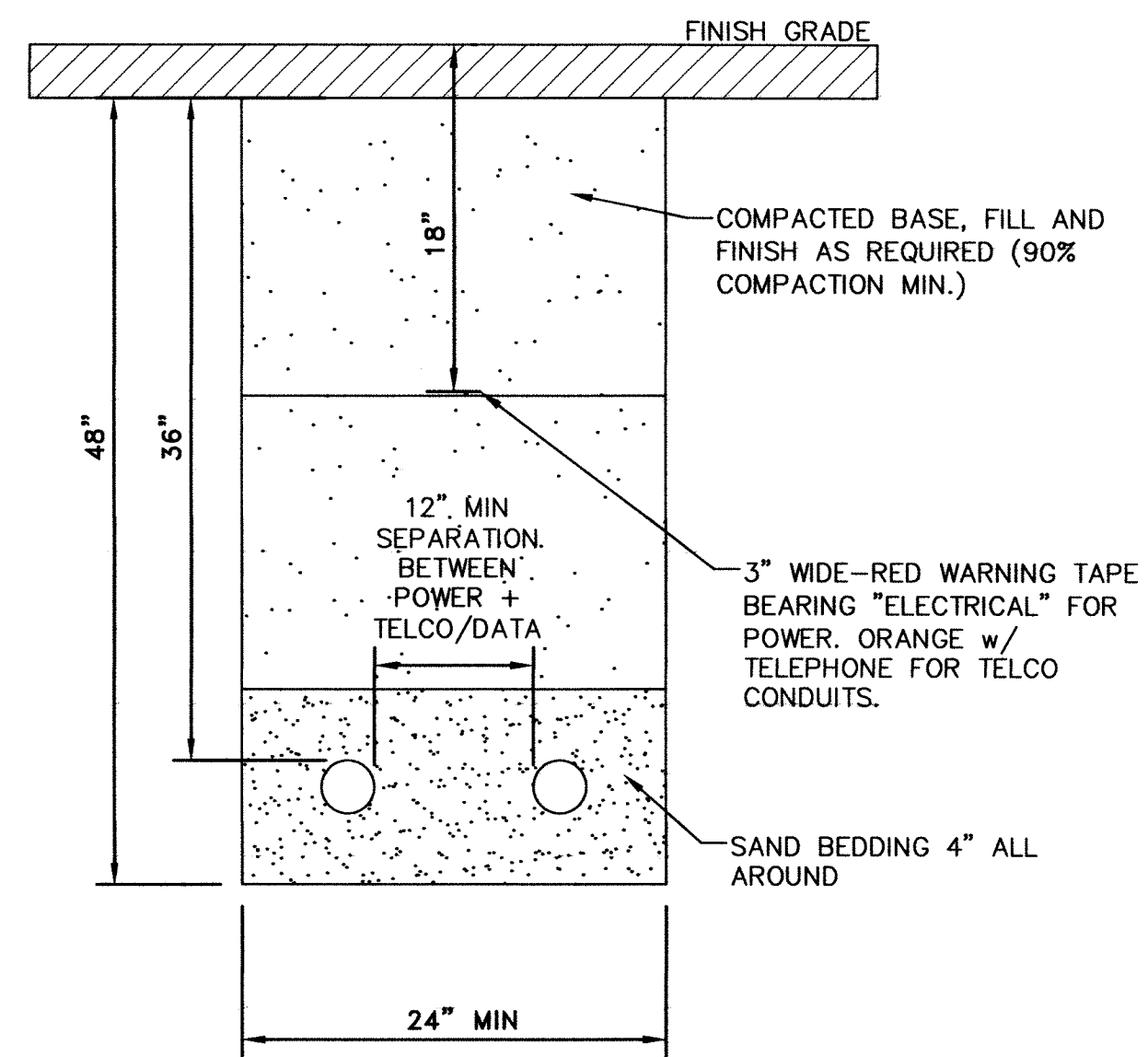
REV.	DATE	DESCRIPTION	BY	APP'D

**FARR WEST**  
 ENGINEERING  
 5442 LONGLEY LANE, SUITE B  
 RENO, NEVADA 89511  
 PHONE: (775) 851-4788  
 FAX: (775) 851-0786

**SUGARLOAF COMM SITE  
 250 CONESTOGA DRIVE**  
**UTILITY & GROUNDING PLAN**

P:\Client Projects\Carson City, City of 115\0988 Carson City Electrical Design\A.G. Draught\A1.DWG\0988-CARSON PUBLIC WORKS-SUGARLOAF-ELECTRICAL.dwg

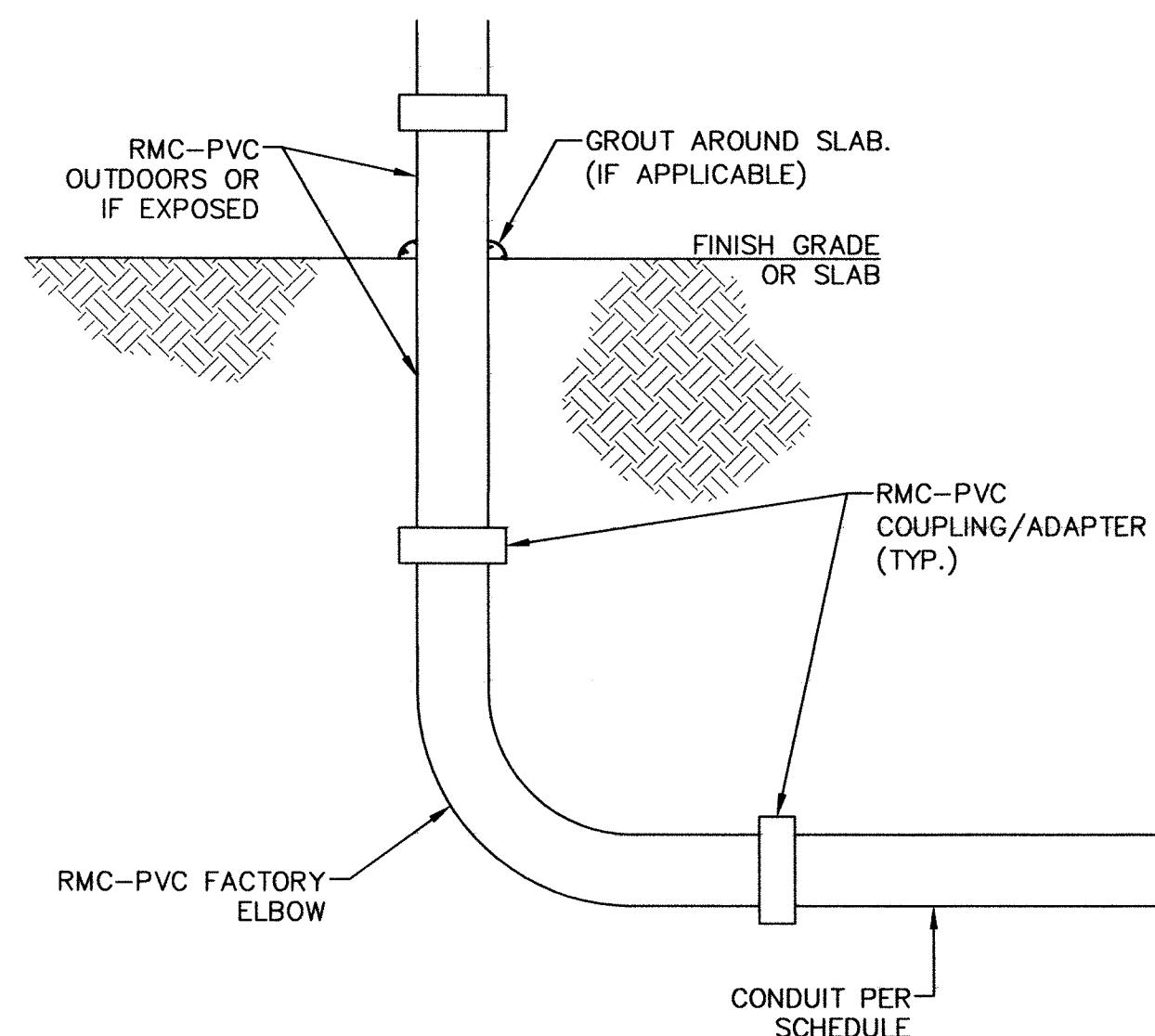




**SECONDARY UTILITY CONDUITS DETAIL**

SCALE = NONE

E102



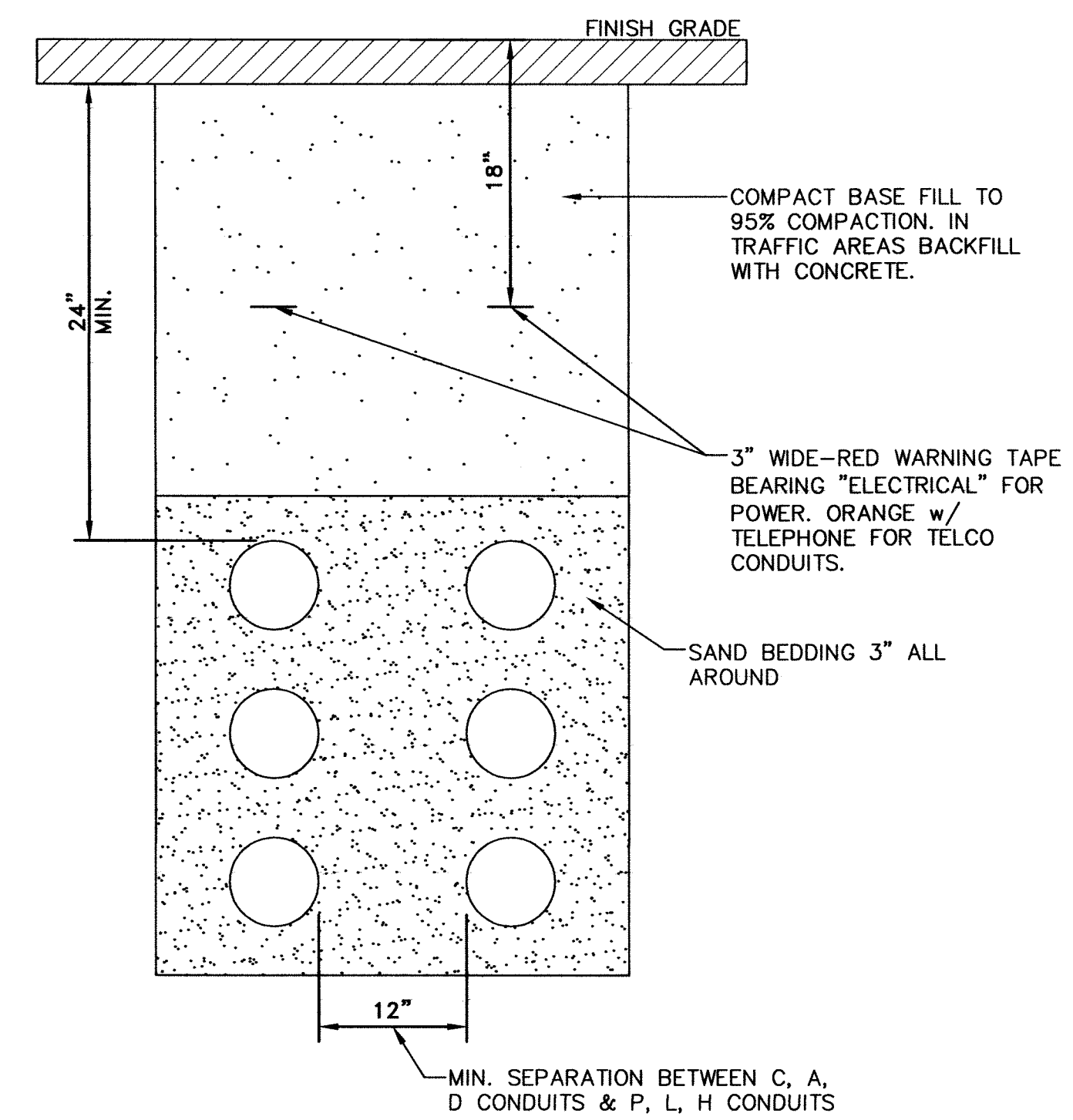
**NOTES**

① RMC WITH PLASTIC TAPE IS NOT ALLOWED AS A SUBSTITUTE.

**EXPOSED CONDUIT TRANSITION DETAIL**

SCALE = NONE

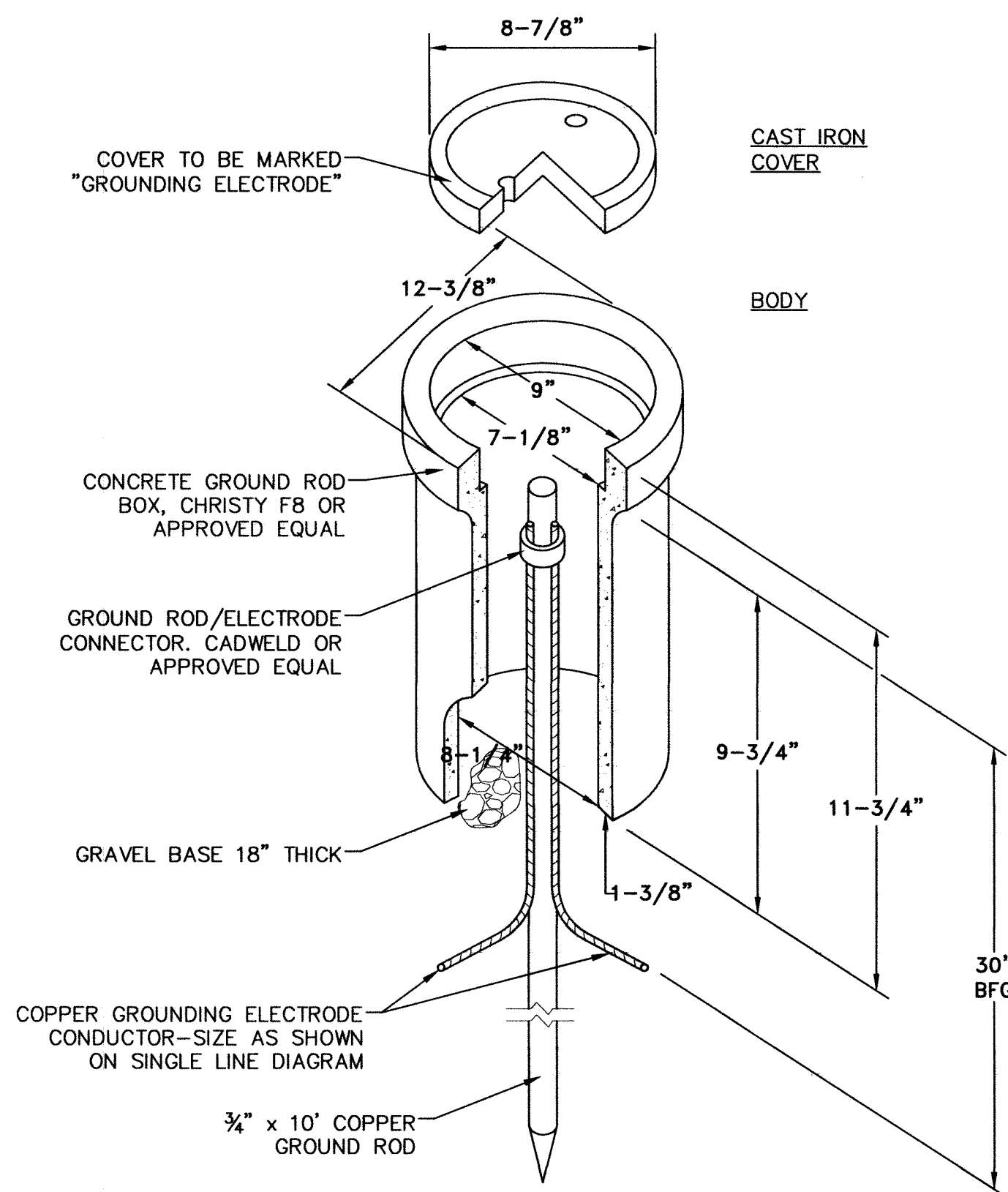
E201



**TRENCH DETAIL**

SCALE = NONE

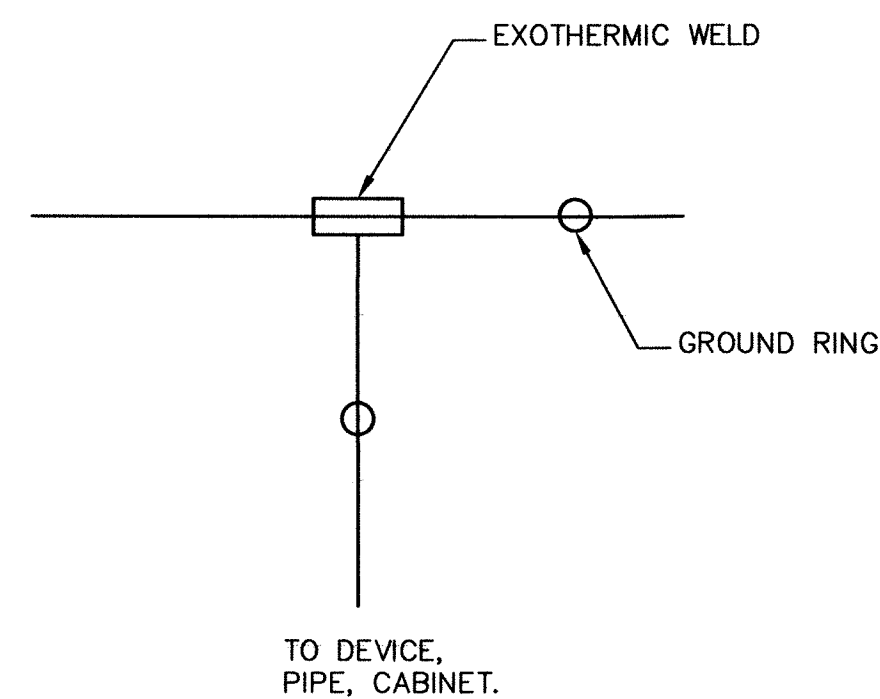
E202



**CONCRETE GROUND ROD HANDHOLD DETAIL**

SCALE = NONE

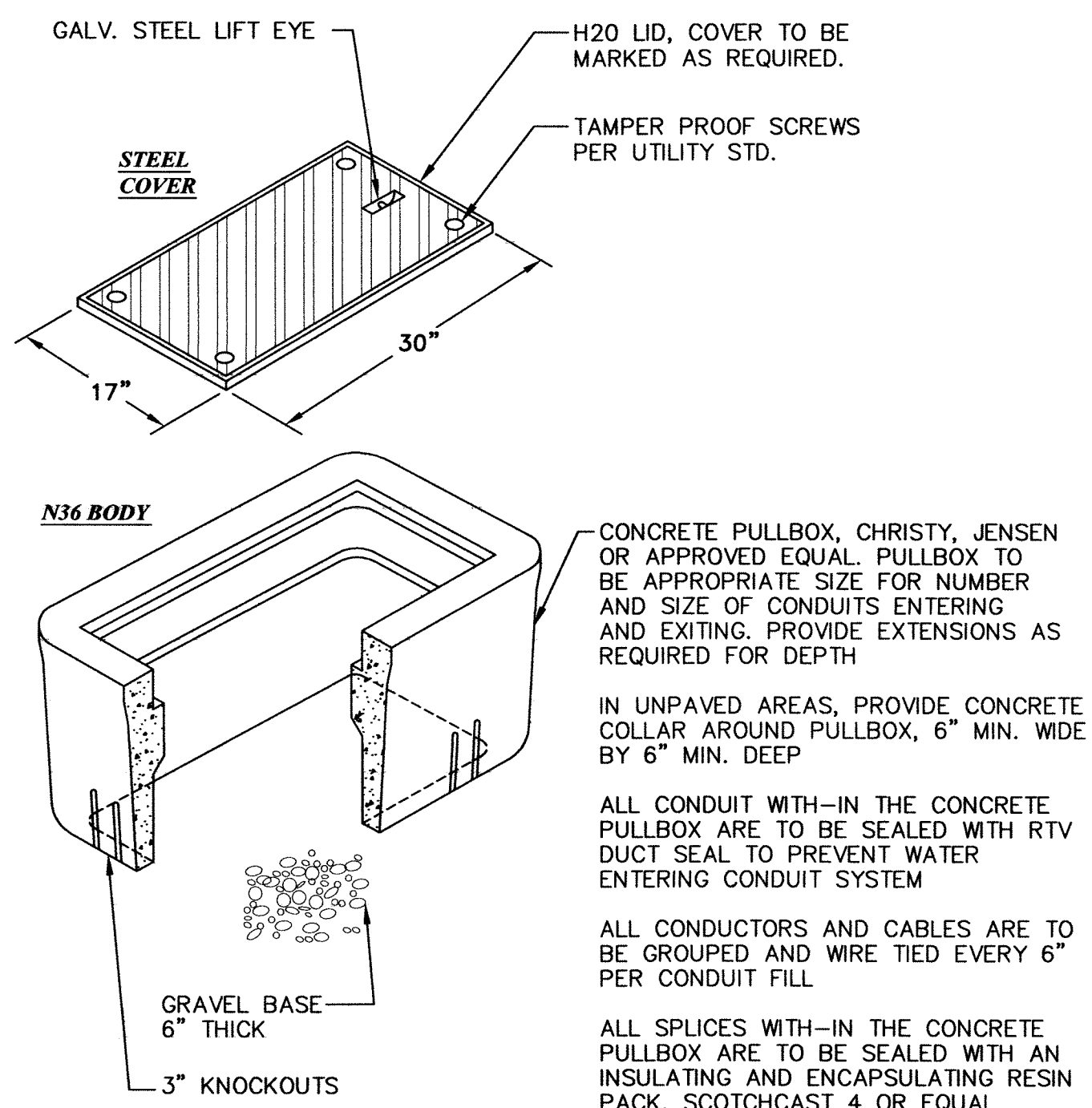
E212



**GROUNDING CONNECTION DETAIL**

SCALE = NONE

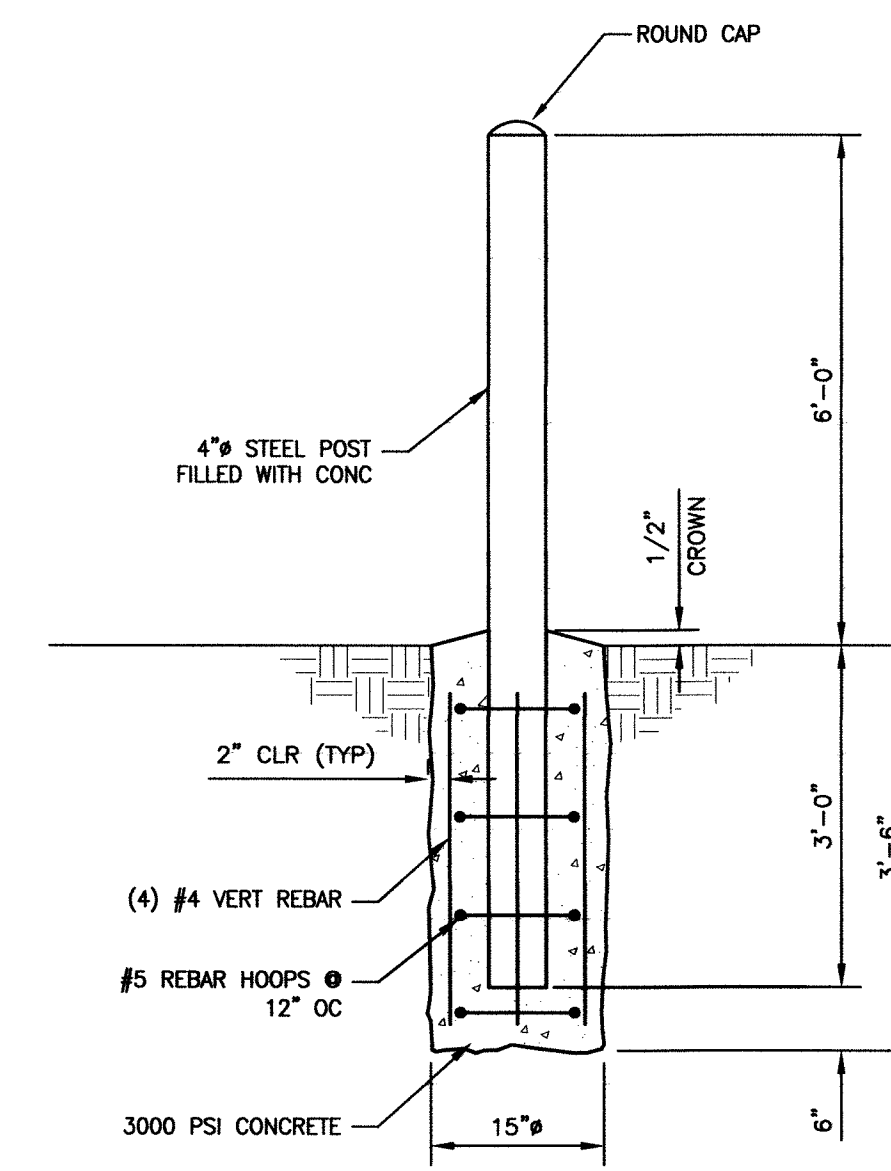
E213



**SMALL CONCRETE PULLBOX DETAIL**

SCALE = NONE

E224



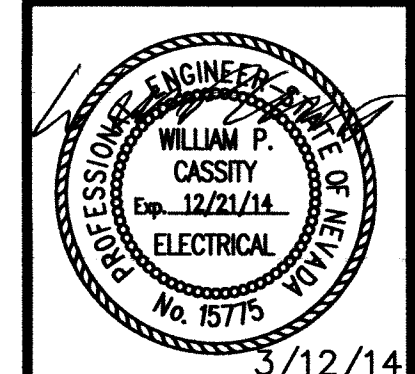
**POST FOOTING DETAIL**

SCALE = NONE

E230

DESIGNED BY:	WFC
DRAWN BY:	WFC
CHECKED BY:	WFC
DWG NO.:	
SCALE (HORIZ):	AS SHOWN
SCALE (VERT):	
PLOT DATE:	

**CARSON CITY PUBLIC WORKS DEPARTMENT**  
 3505 BUTTI WAY CARSON CITY, NEVADA 89701  
 PH: 887-2355 FAX: 887-2112



3/12/14

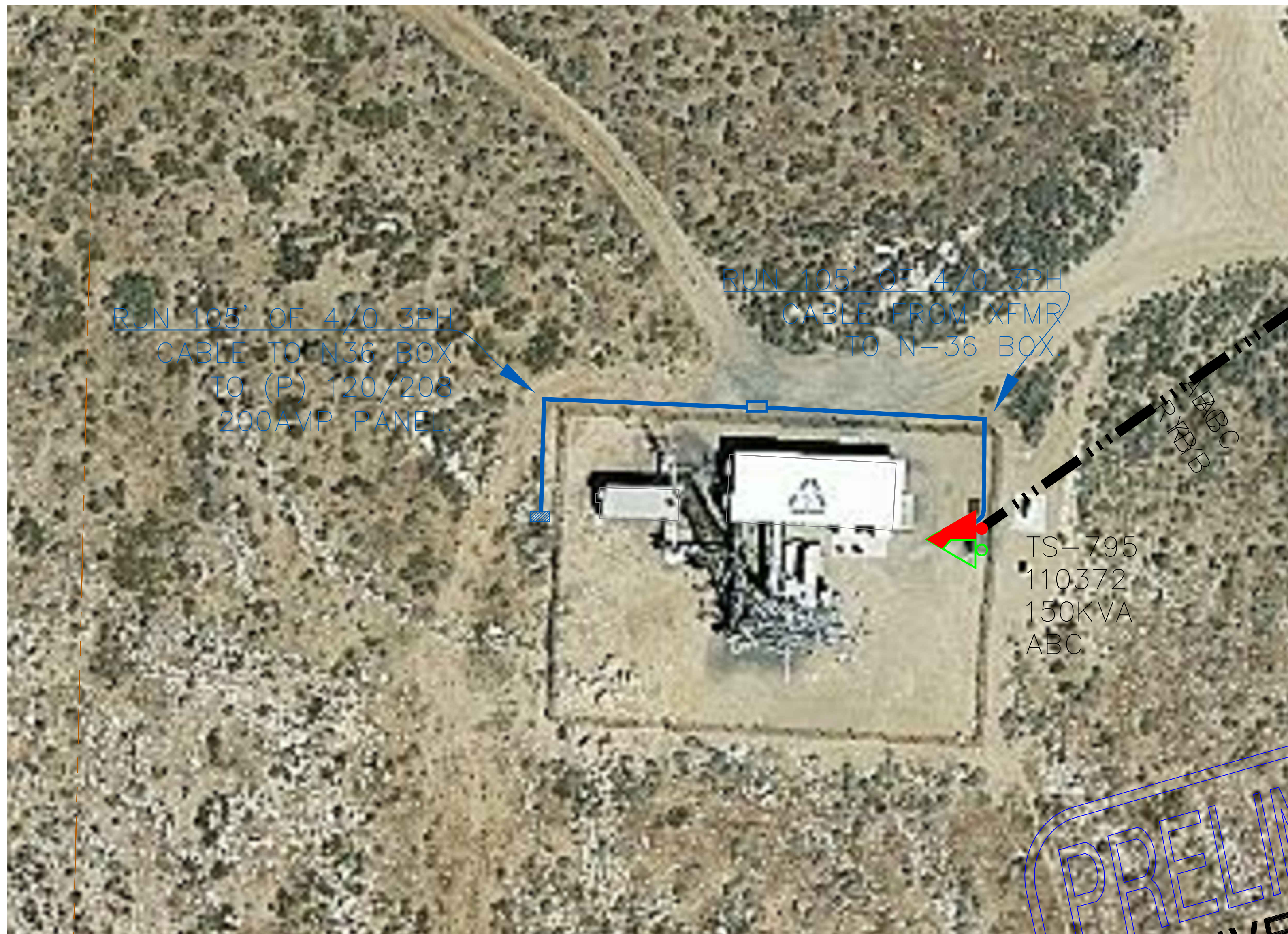
REV.	DATE	DESCRIPTION	BY	APP'D

**FARR WEST ENGINEERING**  
 5442 LONGLEY LANE, SUITE B  
 RENO, NEVADA 89511  
 PHONE: (775) 851-7788  
 FAX: (775) 851-0766

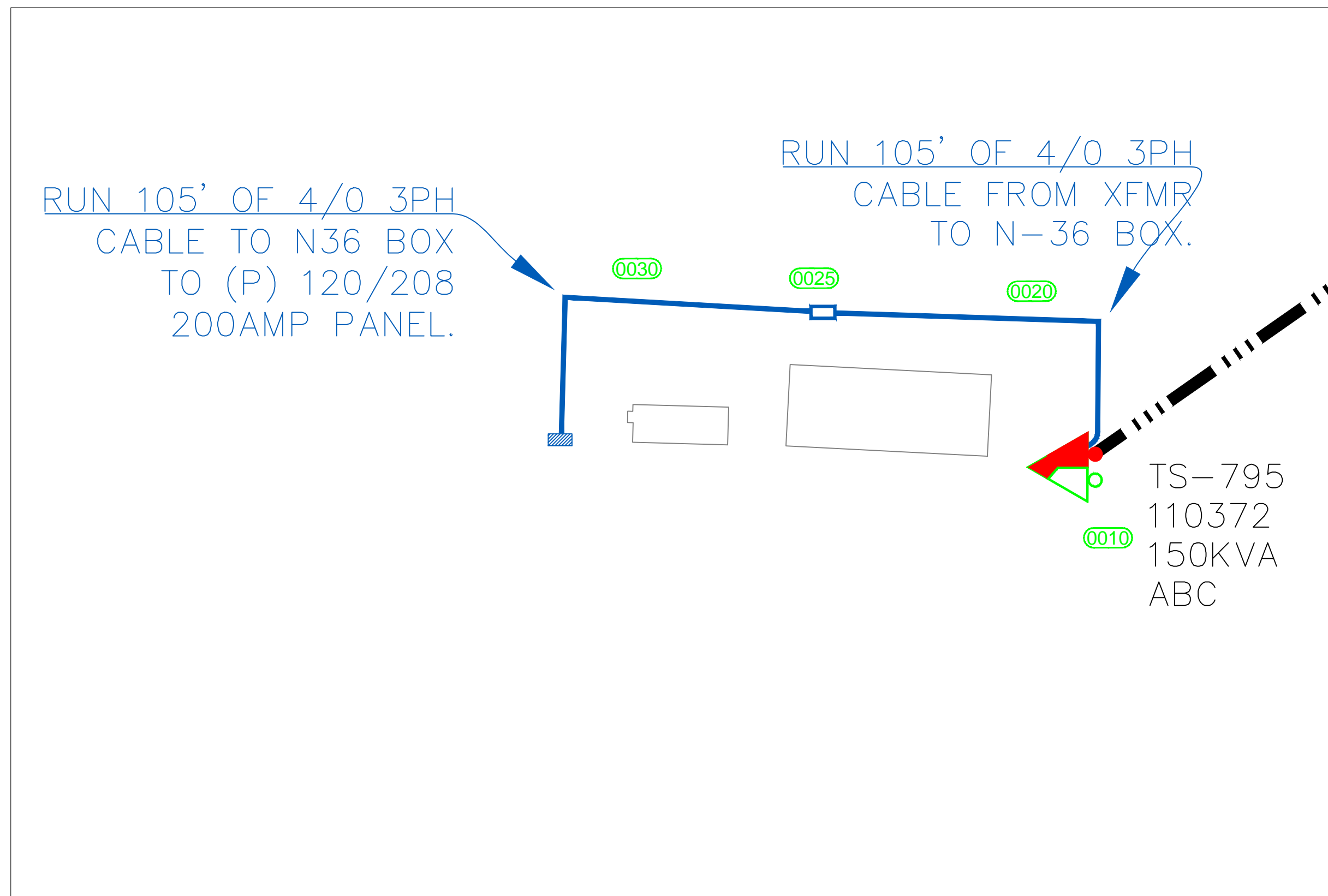
**SUGARLOAF COMM SITE  
 250 CONESTOGA DRIVE  
 TYPICAL ELECTRICAL  
 DETAILS**

P:\Client Projects\Carson City, City of 1130888 Carson City Electrical Design\1130888\1130888-01-1101\0101a-CARSON PUBLIC WORKS-SUGARLOAF ELECTRICAL.dwg

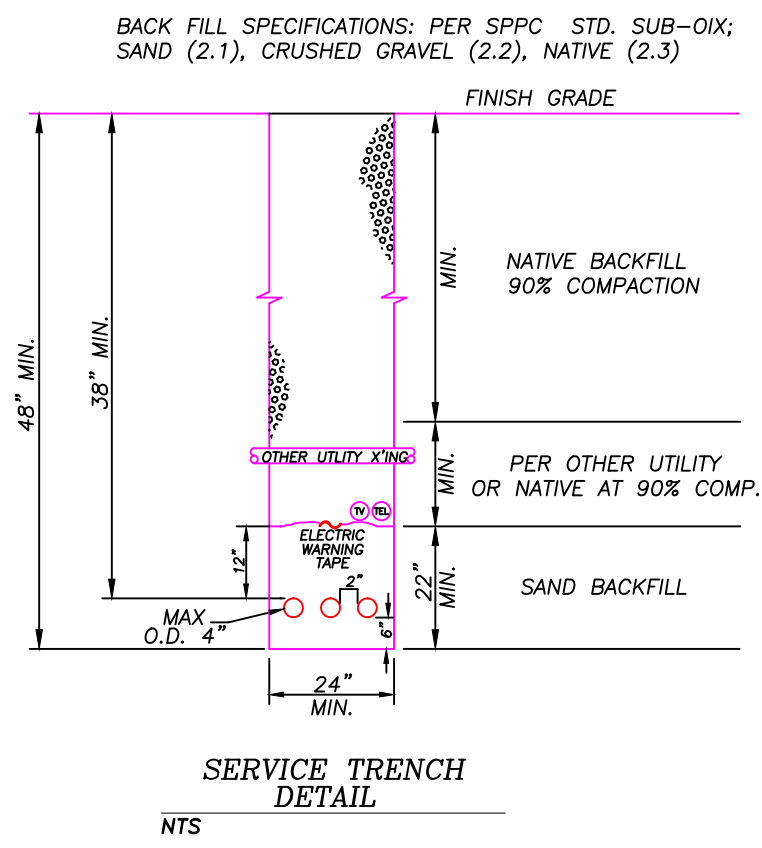




DESIGN WITHOUT ORTHO



PRELIMINARY  
 NVENERGY  
 04/16/2014  
 NOT FOR CONSTRUCTION



**NV ENERGY TO INSTALL:**  
 APPROX. 210' CT. FT. UG SERVICE CABLE, 120/208 TO 1 - 200AMP PANEL C/O 1- 4/0QUAD IN 1-3" C (CONDUIT BY CONTRACTOR)

**APPLICANT TO FURNISH AND INSTALL:**

- 1 - SECONDARY BOXES (N-36) 30"x11"x12" I.D. WITH 2 EXTENSIONS, (H-10, NON TRAFFIC AND INCIDENTAL TRAFFIC RATED BOX), FIBRELITE I.D. WHEN PLACED IN RESIDENTIAL DRIVEWAY OR WHEN LOCATED LESS THAN 3 FT. FROM THE WIDEST SECTION OF ANY APPROACH OF DRIVEWAY OR VEHICLE ACCESS. (H-20 TRAFFIC RATED BOX). EXTENSION AND STEEL COVER TO BE INSTALLED IF ANY PORTION OF BOX FALLS WITHIN COMMERCIAL DRIVEWAY OR STREET RIGHT OF WAY. (SEE STANDARD V80052U FOR H-10N 4 NON RATED) (SEE STANDARD V80052U FOR H-20 TRAFFIC RATED).

- \* PROPOSED APPROX. 210 FT. 3", PVC SECONDARY CONDUIT.
- \* (ABOVE FOOTAGE DOES NOT INCLUDE SWEEPS OR RISERS FOR SECONDARY BOXES, TRANSFORMERS, JUNCTION ENCLOSURES, ETC.)

APPLICANT IS RESPONSIBLE FOR MANDRILLING CONDUIT AND INSTALLING A FULL LINE THAT MEETS OR EXCEEDS THE FOLLOWING REQUIREMENTS:

- THE FULL LINE WILL BE A FLAT DESIGN
- SHALL HAVE A MINIMUM BREAKING STRENGTH OF 400 LBS.
- WILL HAVE SEQUENTIAL FOOTAGE MARKINGS
- EXAMPLES OF FULL LINES THAT MEET THESE REQUIREMENTS (NVE 5TK195-1305)
- NEPTICO "MULE TAPE" (UP400P)
- CONDUX INTERNATIONAL (08036103)
- SEE NVE VOLUME II, SECTION 4-CD000U.

NOTE: ALL CONDUIT INSTALLATIONS BENEATH FOUNDATION AND SLABS TO BE RIGID STEEL OR CONCRETE ENCASED PER NVE STDs. CD-0003U.

ALL TRENCHING AND BACK FILL PER APPLICABLE NVE STDs. TE-0001, TE-0003, TE-0004 AND TE-0010.

ALL STAKING REQUIREMENTS PER NVE STD. G1-0001U/G1U AND G1-0002U.

ALL STREET CUT PERMITS AND PAVEMENT CUTTING AND REPLACEMENT AS REQUIRED.

INSTALLATION OF UG ELECTRIC FACILITIES IN RESIDENTIAL SUBDIVISIONS PER NVE STD. RU-0005-U.

RETAINING WALL REQUIREMENTS PER NVE STD. TE0040U.

8' x 5/8" GROUND RODS AT SWITCH, TRANSFORMER AND JUNCTION ENCLOSURE LOCATIONS.

BEFORE INSTALLATION OF THE UTILITY FACILITIES AND IF NO PUBLIC UTILITY EASEMENTS EXIST, THE OWNER OF RECORD SHALL SIGN APPROPRIATE EASEMENT DOCUMENTS.

ALL SERVICE CONDUITS TO BE STUBBED 10' MINIMUM FROM TRANSFORMER PADS AND SECONDARY BOXES AT THE SAME TIME AS MAIN LINE INSTALLED PER NVE STDs VOLUME II. (TE0010U)

**GENERAL COMMENTS:**

CALL CARSON ELECTRIC UNDERGROUND (888-993-1556) 48 HOURS PRIOR TO START OF CONSTRUCTION FOR TRENCH INSPECTION BEFORE COVERING TRENCH!  
 (INCLUDE WORK ORDER NUMBER ALONG WITH NAME AND PHONE NUMBER OF PROJECT FOREMAN IN VOICE MESSAGE)

EQUIPMENT BARRIER POSTS MAY BE REQUIRED PER NVE STD. PE-0009U.

RETAINING WALLS MAY BE REQUIRED FOR ANY SLOPES GREATER THAN 15% PER NVE STD. TE-0040-U.

ALL SECONDARY BOXES AND PRIMARY VAULTS SHALL BE TO FINISH GRADE.

ALL MATERIAL SHALL BE ON THE JOB SITE PRIOR TO THE START OF ANY WORK BY NVE.

REFER TO NVE STDs. U8000M FOR FURTHER CLARIFICATION OF DETAILS.

COMPACTION TESTS REQUIRED PER NVE STD. S600X.

METER MUST BE LOCATED WITHIN 10 FEET OF THE FRONT CORNER OF BUILDING AS STIPULATED IN NVE STD. U8000M. SERVICE METER MUST NOT BE FENCED.

GAS SERVICE CURB VALVE TO BE 30" FROM SIDE PROPERTY LINE AND ELECTRIC CONDUIT TO BE STUBBED 54" FROM SIDE PROPERTY LINE. BOTH GAS AND ELECTRIC UTILITIES TO BE ON SAME LOT.

NO TREE SHALL BE PLANTED UNDER OR ADJACENT TO ENERGIZED POWER LINES WHICH AT MATURITY, SHALL GROW WITHIN 10 FEET OF THE ENERGIZED CONDUCTORS. NOR SHALL ANY PERMANENT STRUCTURE, FENCE, SHRUB OR TREE BE PLANTED CLOSER THAN 10 FEET IN FRONT AND 3 FEET FROM ALL OTHER SIDES OF A PAD MOUNTED TRANSFORMER.

THESE DRAWINGS ARE BASED ON CIVIL PLANS DATED:

NOTE: DEVELOPER IS RESPONSIBLE FOR ADHERENCE TO NVE GAS AND ELECTRIC STANDARDS. CONSTRUCTION STANDARDS CAN BE FOUND ON-LINE AT THE FOLLOWING WEB SITE: <http://www.nvenergy.com/business/newconstruction>.

THIS MAP ILLUSTRATES DATA COLLECTED FROM VARIOUS SOURCES AND MAY NOT REPRESENT A SURVEY OF THE PREMISES. NO RESPONSIBILITY IS ASSUMED AS TO THE SUFFICIENCY OR ACCURACY OF THE DATA DISPLAYED HEREON.

ALL WORK SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE SPECIFICATIONS SET FORTH IN THE ELECTRIC DISTRIBUTION GUIDE, VOL. II AS CURRENTLY ADOPTED BY NVE. THE CONTRACTOR SHALL SECURE COPIES OF THE AFOREMENTIONED CONSTRUCTION SPECIFICATIONS ON HIS OR HER OWN BEHALF.

USE CAUTION! PRIOR TO EXCAVATION, CHECK TO ENSURE ADDITIONAL DEPTH IS NOT REQUIRED TO ACCOMMODATE GAS AND/OR WATER FACILITIES.

SYMBOLS ARE NOT TO SCALE AND DO NOT NECESSARILY REPRESENT ACTUAL LOCATIONS OF FACILITIES.

DRAWING	DESIGNED BY	DATE																																								
BASE	LSJ																																									
ELECTRIC	LSJ																																									
GAS																																										
STREETLIGHT																																										
<b>REVIEWED BY:</b>																																										
Utility Designer	Engineer	Design Facilitator																																								
		Catholic Protection																																								
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<b>NV ENERGY CONTACT INFORMATION:</b> COORDINATOR: LARA ST. JACQUES OFFICE: # 775-834-2909 CELL: # FAX: # EMAIL: LSTJACQUES@NVENERGY.COM DESIGNER: LARA ST. JACQUES INSPECTION HOTLINE#: 888/999-1556																																										
<b>CUSTOMER CONTACT INFORMATION:</b> CUSTOMER: CITY OF CARSON ATTENTION: DARREN ANDERSON PHONE: # 775-283-7584 FAX: # 775-887-2112 EMAIL: DANDERSON@CARSON.ORG CUST REP: # PHONE: # EMAIL:																																										
TOWNSHIP-RANGE-SECTION N1620-32	APN# 008-011-30																																									
<b>SOURCE INFORMATION:</b> 1223 LINE 12.5KV NORM OUT OF EMERSON SUB																																										
250 CONESTOGA DRIVE SHR  DUCK HILL COMMUNICATION SITE  VICINITY MAP (NTS) 250 CONESTOGA - SHR																																										
EXHIBIT "A" APPLICANT INSTALLED CONDUIT		GAS#: STL#: AUD#: ELE#: 3000566039																																								
ELECTRIC DESIGN																																										
SCALE: 1:20																																										
SHEET#: E.1																																										