

GENERAL CONSTRUCTION NOTES

1. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOB SITE CONDITIONS AND WORK TO BE PERFORMED UNDER THIS CONTRACT.
2. CONTRACTOR SHALL PERFORM ALL VERIFICATION OBSERVATION TESTS, AND EXAMINATION WORK PRIOR TO THE ORDERING OF THE ELECTRICAL EQUIPMENT AND THE ACTUAL CONSTRUCTION. CONTRACTOR SHALL ISSUE A WRITTEN NOTICE OF ALL FINDINGS TO THE ARCHITECT LISTING ALL MALFUNCTIONS, FAULTY EQUIPMENT AND DISCREPANCIES.
3. HEIGHTS SHALL BE VERIFIED WITH OWNER TO INSTALLATION.
4. THESE PLANS ARE DIAGRAMMATIC ONLY, FOLLOW AS CLOSELY AS POSSIBLE.
5. EACH CONDUCTOR OF EVERY SYSTEM SHALL BE PERMANENTLY TAGGED IN EACH PANELBOARD, PULLBOX, J-BOX, SWITCH BOX, ETC., IN COMPLIANCE WITH OCCUPATIONAL SAFETY AND HEALTH ACT (O.S.H.A.).
6. CONTRACTOR SHALL PROVIDE ALL LABOR, MATERIALS, INSURANCE, EQUIPMENT, INSTALLATION, CONSTRUCTION TOOLS, TRANSFORMATION, ETC., FOR A COMPLETE AND PROPERLY OPERATIVE SYSTEM ENERGIZED THROUGHOUT AND AS INDICATED ON DRAWINGS, AS SPECIFIED HEREIN AND/OR AS OTHERWISE REQUIRED.
7. ALL MATERIALS AND EQUIPMENT SHALL BE NEW AND IN PERFECT CONDITION WHEN INSTALLED AND SHALL BE OF THE BEST GRADE AND OF THE SAME MANUFACTURER THROUGHOUT FOR EACH CLASS OR GROUP OF EQUIPMENT, MATERIALS SHALL BE LISTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BEAR THE INSPECTION LABEL "J" WHERE SUBJECT TO SUCH APPROVAL. MATERIALS SHALL MEET WITH APPROVAL OF THE DIVISION OF INDUSTRIAL SAFETY AND ALL GOVERNING BODIES HAVING JURISDICTION. MATERIALS SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE STANDARDS ESTABLISHED BY ANSI, NEMA & NBFU.
8. CONTRACTOR SHALL CARRY OUT HIS WORK IN ACCORDANCE WITH ALL GOVERNING STATE, COUNTY AND LOCAL CODES AND O.S.H.A.
9. CONTRACTOR SHALL SECURE ALL NECESSARY BUILDING PERMITS.
10. COMPLETE JOB SHALL BE GUARANTEED FOR A PRIOR OF ONE (1) YEAR AFTER THE DATE OF JOB ACCEPTANCE BY OWNER. ANY WORK, MATERIAL OR EQUIPMENT FOUND TO BE FAULTY DURING THAT PERIOD SHALL BE CORRECTED AT ONCE, UPON WRITTEN NOTIFICATION, AT THE EXPENSE OF THE CONTRACTOR.
11. ALL CONDUIT ONLY (C.O.) SHALL HAVE A PULL WIRE OR ROPE.
12. PROVIDE PROJECT MANAGER WITH ONE SET OF COMPLETE ELECTRICAL "AS INSTALLED" DRAWINGS AT THE COMPLETION OF THE JOB, SHOWING ACTUAL DIMENSIONS, ROUTINGS, AND CIRCUITS.
13. ALL BROCHURES, OPERATING MANUALS, CATALOGS, SHOP DRAWINGS, ETC. SHALL BE TURNED OVER TO OWNER AT JOB COMPLETION.
14. USE T-TAP CONNECTIONS ON ALL MULTI -CIRCUITS WITH COMMON NEUTRAL CONDUCTOR FOR LIGHTING FIXTURE.
15. ALL CONDUCTORS SHALL BE COPPER.
16. ALL CIRCUIT BREAKERS, FUSES AND ELECTRICAL EQUIPMENT SHALL HAVE AN INTERRUPTING RATING NOT LESS THE MAXIMUM SHORT CIRCUIT CURRENT TO WHICH THEY MAY BE SUBJECTED, AND A MINIMUM OF 10,000 A.I.C.
17. THE ENTIRE ELECTRICAL INSTALLATION SHALL BE GROUNDED AS REQUIRED BY ALL APPLICABLE CODES AND DRAWINGS.
18. PATCH, REPAIR AND PAINT ANY AREA THAT HAS BEEN DAMAGED IN THE COURSE OF THE ELECTRICAL WORK.
19. IN DRILLING HOLES INTO CONCRETE WHETHER FOR FASTENING OR ANCHORING PURPOSES, OR PENETRATIONS THROUGH THE FLOOR FOR CONDUIT RUNS, PIPE RUNS, ETC., IT MUST BE CLEARLY UNDERSTOOD THAT TENDONS AND/OR REINFORCING STEEL WILL NOT BE DRILLED INTO, CUT OR DAMAGED UNDER ANY CIRCUMSTANCES.
20. LOCATION OF TENDONS AND/OR REINFORCING STEEL ARE NOT DEFINITELY KNOWN AND THEREFORE MUST BE SEARCHED FOR BY APPROPRIATE METHODS AND EQUIPMENT VIA X-RAY OR OTHER DEVICES THAT CAN ACCURATELY LOCATE THE REINFORCING AND/OR STEEL TENDONS.
21. WIRE AND CABLE CONDUCTORS SHALL BE COPPER #12 AWG MINIMUM, NO BX OR ROMEX CABLE IS PERMITTED UNLESS SPECIFICALLY NOTED OTHERWISE ON DRAWINGS.
22. GROUNDING CONDUCTORS SHALL BE SOLD TINED COPPER AND ANNEALED #2.
23. GROUND RODS SHALL BE COPPER CLAD STEEL, 5/8" ROUND AND 10' LONG. COPPERWELD OR APPROVED EQUAL.
24. METER SOCKET AMPERES, VOLTAGE, NUMBER OF PHASES SHALL BE AS NOTED ON THE DRAWINGS. MANUFACTURED BY SQUARE D COMPANY OR APPROVED EQUAL. ALL MATERIALS SHALL BE U.L. LISTED.
25. CONDUIT:

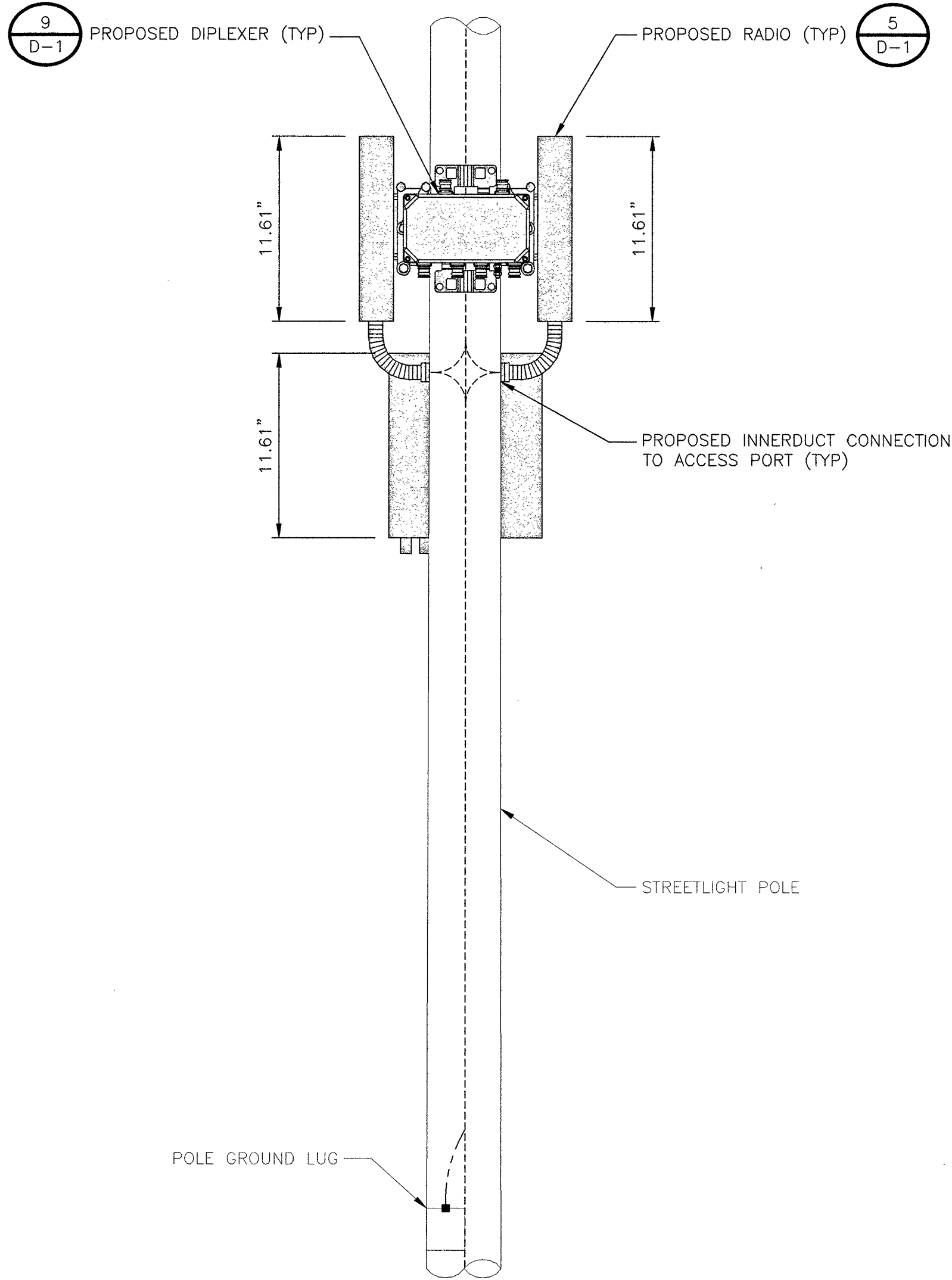
a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGIDCONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.

b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.

c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JAKE" OR "SQUEEZE" TYPE, SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.

d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
27. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
28. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.
29. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
30. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.

31. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FORM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
32. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
33. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
34. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND CO-ORDIANTED WITH THE GENERAL CONTRACTOR.
35. ELECTRICAL CONTRACTOR SHALL CO-ORINATE ALL WORK WITH CIVIL AND ARCHITECTURAL PLANS. THE REQUIREMENTS OF ALL EQUIPMENT ACTUALLY BEING INSTALLED SHALL BE VERIFIED PRIOR TO INSTALLING THE ELECTRICAL WORK.
36. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE THWN-2, THW-2, RHW-2, XHHW-2 #14, #12, & #10 SOLID, #8 AND LARGER STRANDED, UNLESS NOTED OTHERWISE.
37. ON COMPLETION OF THE WORK, THE INSTALLATION SHALL BE FREE FORM GROUNDS AND SHORT CIRCUITS.
38. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECT AND CUSTOMER UPON COMPLETION OF THE JOB.
39. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED, TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANEL BOARDS(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
40. RACEWAYS SHALL BE: RIGID STEEL CONDUIT: HOT-DIP GALVANIZED HEAVY WALL AS MANUFACTURED BY REPUBLIC, TRIANGLE OR EQUAL, RIGID POLYVINYL CHLORIDE CONDUIT (PVC): HEAVY WALLS SCHEDULE 40 AS MANUFACTURED BY CARLON ELECTRICAL, VISQEEN OR EQUAL, ELECTRICAL METALLIC TUBING (EMT):ZINC-COATED THIN WALL AS MANUFACTURED BY TRIANGLE, REPUBLIC OR EQUAL
41. FUSE TYPE SHALL BE BUSSMANN RK-1 OR CLASS "J" FUSE.
42. PROVIDE ENGRAVED PLASTIC LABELS TO IDENTIFY ALL PANEL BOARDS, XFMRs., DISTRIBUTION PANELS, DISCONNECT SWITCHES, AND TRANSFER SWITCHES. LABELS SHALL READ IN THIS FASHION "A" 208Y/120V 3PH, 4W, 225A, CKT. BKR OR FUSES TYPE AND SIZES.
43. E.C. SHALL VERIFY AND TEST GROUND TO SOURCE TO A MAXIMUM OF 5 OHMS. IF THE GROUND TEST DOES NOT ACHIEVE THE 5 OHMS LESS, E.C. SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY CONDUCTORS AND GROUND RODS TO ACHIEVE 5 OHMS MAXIMUM.
44. BEFORE SUBMITTING BID, VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND THE EXACT SERVING UTILITY POINTS OF CONNECTION.
45. THE ELECTRICAL CONTRACTOR (E.C) SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
46. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ELECTRICAL MATERIALS, EQUIPMENT AND WORK, SHOWN ON THESE PLANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
47. E.C. SHALL FURNISH AND INSTALL ALL SWITCHES, CONDUITS, WIRES, BOXES, LIGHT FIXTURES (INCLUDING LAMPS), SERVICE DEVICES, RECEPTACLES, SWITCHBOARDS AND PANEL BOARDS, ETC. REQUIRED FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM.
48. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL/LOCATION INFORMATION RELATING TO THE ELECTRICAL DRAWINGS.
49. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSEPOWER RATINGS OF ALL MECHANICAL EQUIPMENT.
50. PRIOR TO INSTALLING ANY ELECTRICAL WORK. THE ELECTRICAL CONTRACTOR SHALL VERIFY EXACT LOCATIONS AND REQUIREMENTS ON THE JOB AND BY REFERENCE TO ARCHITECTURE, MECHANICAL AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
51. OUTLET AND JUNCTION BOXES SHALL BE SIZED PER CODE FOR THE QUANTITY OF WIRES THEY CONTAIN. SEE ARTICLE 370 OF N.E.C. PROVIDE ADDITIONAL BOXES AND EXTENSION RINGS AS REQUIRED.
52. ELECTRICAL CONTRACTOR SHALL COMPLY WITH CABLE BENDING RADIUS REQUIREMENTS PER CABLE MANUFACTURES SPECIFICATION.
53. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED, THE CONTRACTOR SHALL ROUTE CONDUITS AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
54. ALL EQUIPMENT PROVIDED BY THE ELECTRICAL CONTRACTOR SHALL BE LISTED AND LABELED BY A NATIONALLY- RECOGNIZED TESTING AGENCY, ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF THE INSTALLATION.
55. PLANS INDICATE THE NUMBER OF PHASE NATURAL, AND GROUND CONDUCTORS WHERE MORE THAN THREE CONDUCTORS ARE TO BE INSTALLED IN A CONDUIT (THREE OR LESS CONDUCTORS ARE NOT SHOWN). ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
56. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUNDED (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN A 3/4" CONDUIT.
57. UNLESS SPECIFICALLY NOTED OTHERWISE, THE ELECTRICAL CONTRACTOR SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
58. PRIOR TO TRENCHING IN ANY AREA THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA, CABLE T.V., GAS, AND WATER UTILITY PROVIDES (BLUE STRIKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
59. ANY AND ALL WIRE THAT CARRIES A CURRENT MUST BE IN A CONDUIT. (GROUNDING WIRE FOR LOOPS, HALOS, ECT. IS CONSIDERED NON-CURRENT CARRYING.)
60. THE STRUCTURAL CAPACITY OF THE PROPOSED ANTENNA AND/OR RADIO MOUNTING HARDWARE IS DETERMINED BY THE MANUFACTURER. PLEASE REFER TO MANUFACTURER DOCUMENTATION FOR PROPER INSTALLATION METHODS AND CAPACITY LIMITS.



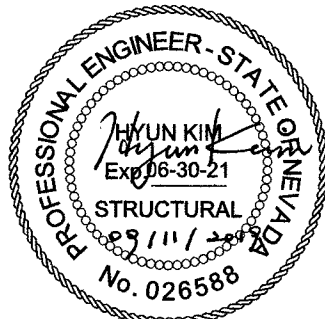
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PROJECT NO.	DRAWN BY	CHECKED BY
199064.2014	MBS	LEW

REV	DATE	DESCRIPTION
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SITE ADDRESS
33AT0067SMC
W BONNEVILLE AVENUE
LAS VEGAS, NV 89106
SMALL CELL

SHEET TITLE
GENERAL CONSTRUCTION
NOTES

SHEET NUMBER
GN-1

GENERAL NOTES

1

TYPICAL EQUIPMENT PLACEMENT DETAIL

NO SCALE

2

THE PURPOSE OF THIS DRAWING IS
TO SHOW HOW THE DEVELOPED SITE
RELATES TO THE PARENT PARCEL
AND ADJACENT PROPERTIES.

EXISTING
METER PEDESTAL

— PROPOSED POWER ROUTE IN
EXISTING COLV CONDUIT
(APPROX. $\pm 150'-0"$)

W BONNEVILLE AVE

— EXISTING CURB (TYP)
— EXISTING TREE (TYP)

— EXISTING FIRE
HYDRANT

— EXISTING WATER VALVE (TYP)

— EXISTING
ELECTRIC LINE
(TYP)

— EXISTING SEWER
LINE (TYP)

SEE ENLARGED
SITE PLAN ON
SHEET A-1.1 —

— EXISTING
RIGHT-OF-WAY (TYP)

PROPOSED FIBER INSIDE
PROPOSED CONDUIT ———

PROPOSED NODE LOCATION ON
EXISTING STREETLIGHT POLE #N

W BONNEVILLE AVENUE
A.P.N. 139-33-710-005

— EXISTING
BUILDING (TYP)

IV PREMIUM OUTLET DR

OVERALL SITE PLAN

12' 8' 4' 0' 10' 20'

$3/32" = 1' - 0"$

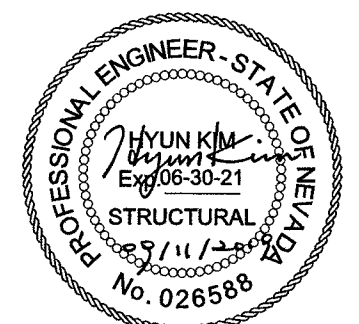


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SHEET TITLE

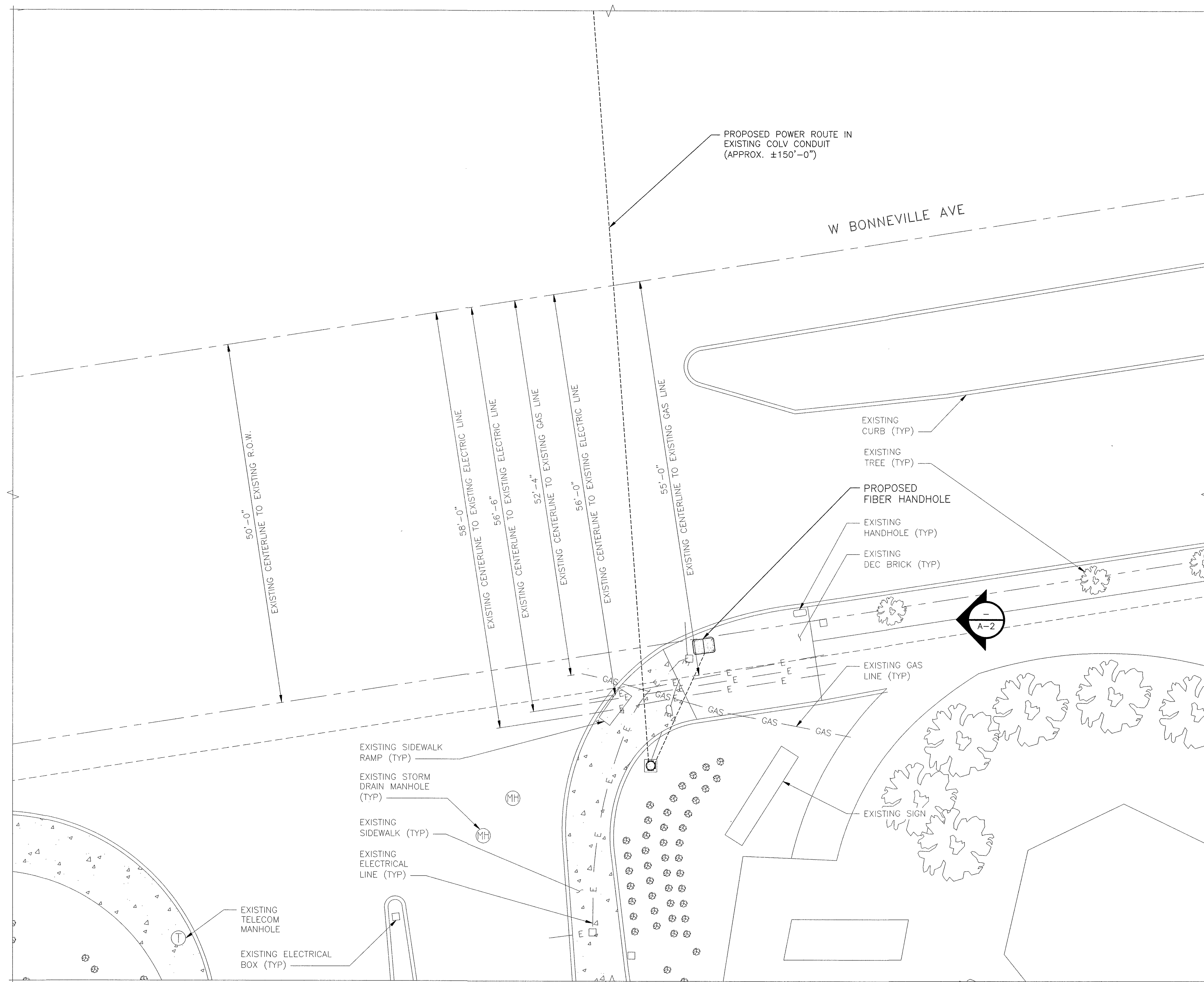
OVERALL SITE PLAN

SHEET NUMBER

A-1

THIS DRAWING IS
NOT A SITE SURVEY

THE PURPOSE OF THIS DRAWING IS
TO SHOW HOW THE DEVELOPED SITE
RELATES TO THE PARENT PARCEL
AND ADJACENT PROPERTIES.

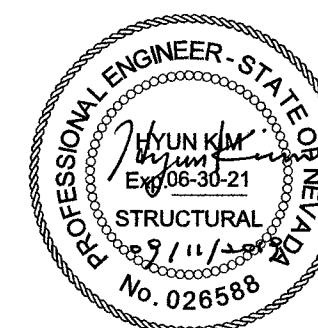


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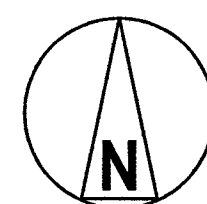


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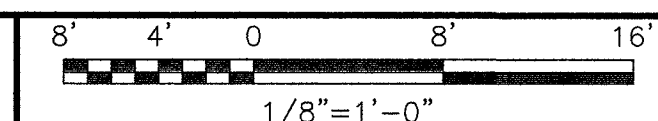
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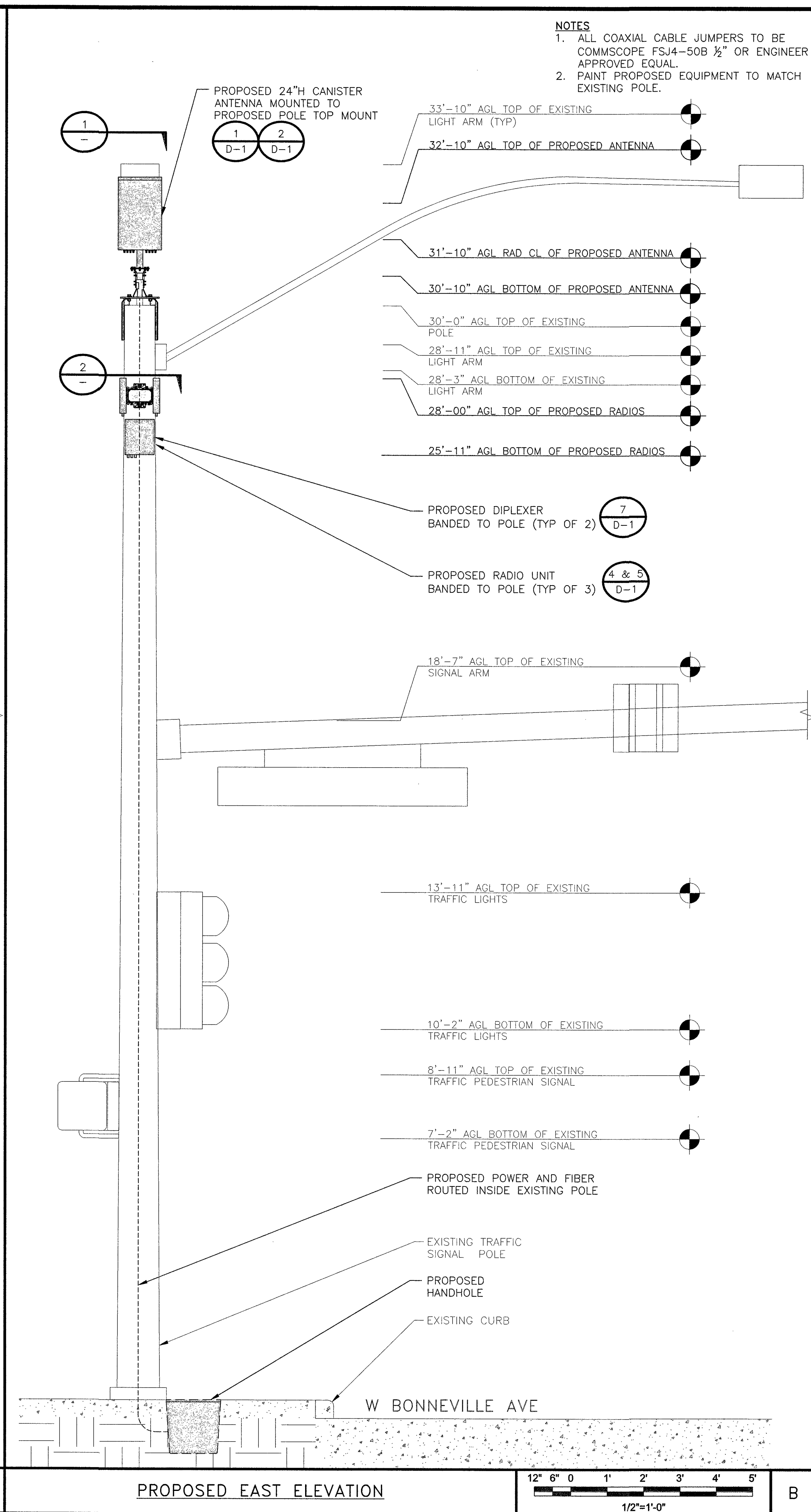
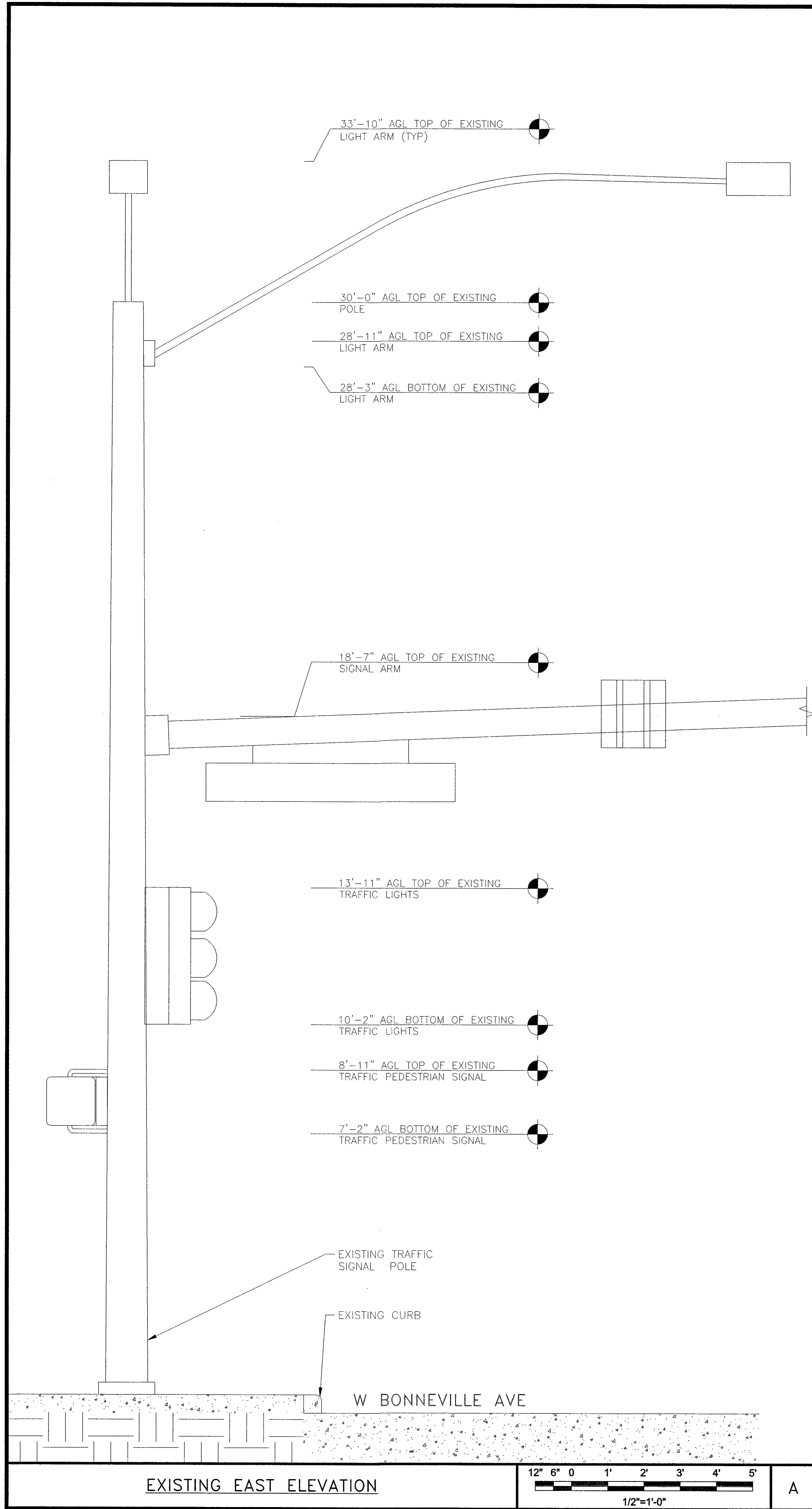
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-1.1

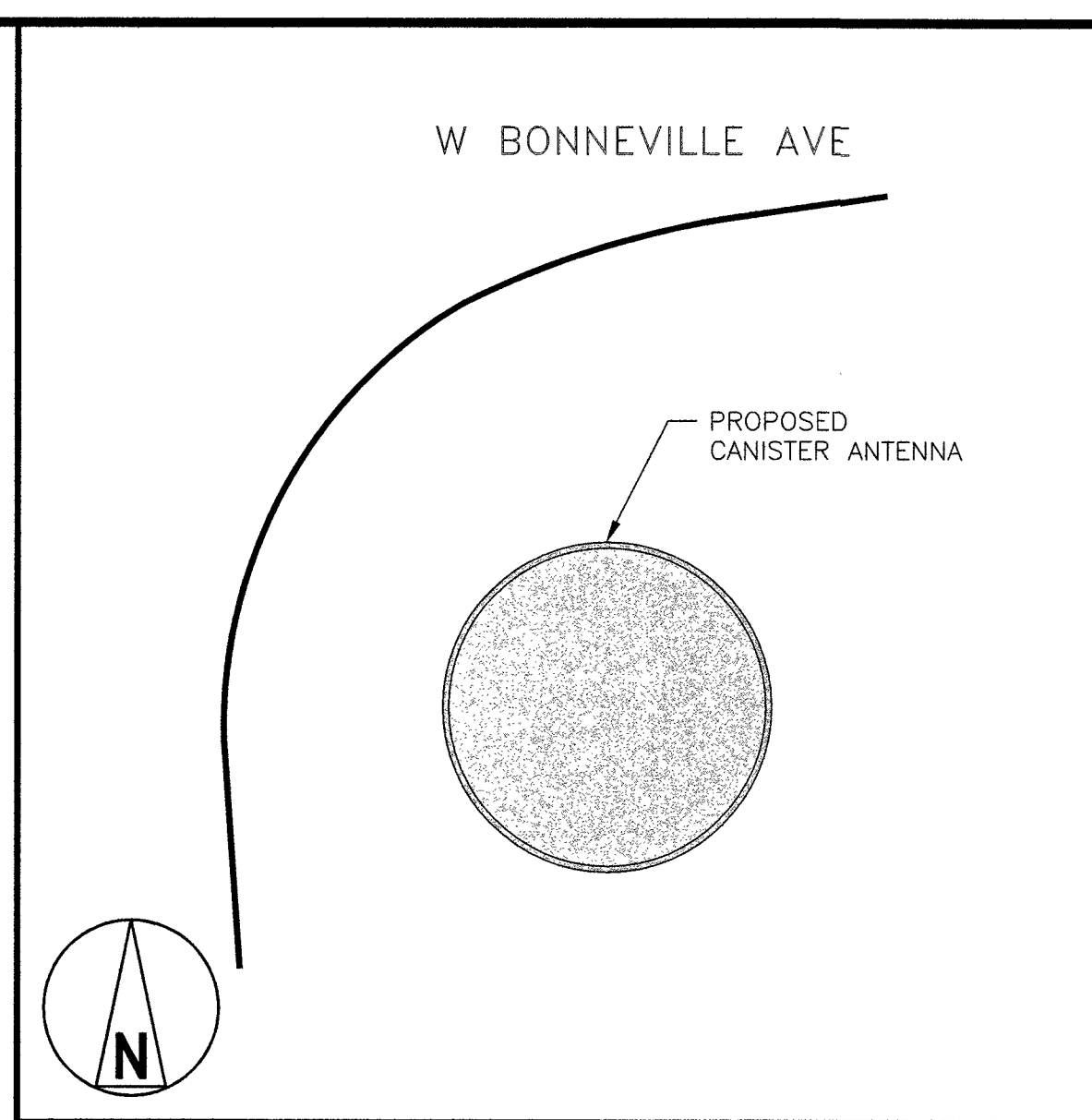


ENLARGED SITE PLAN

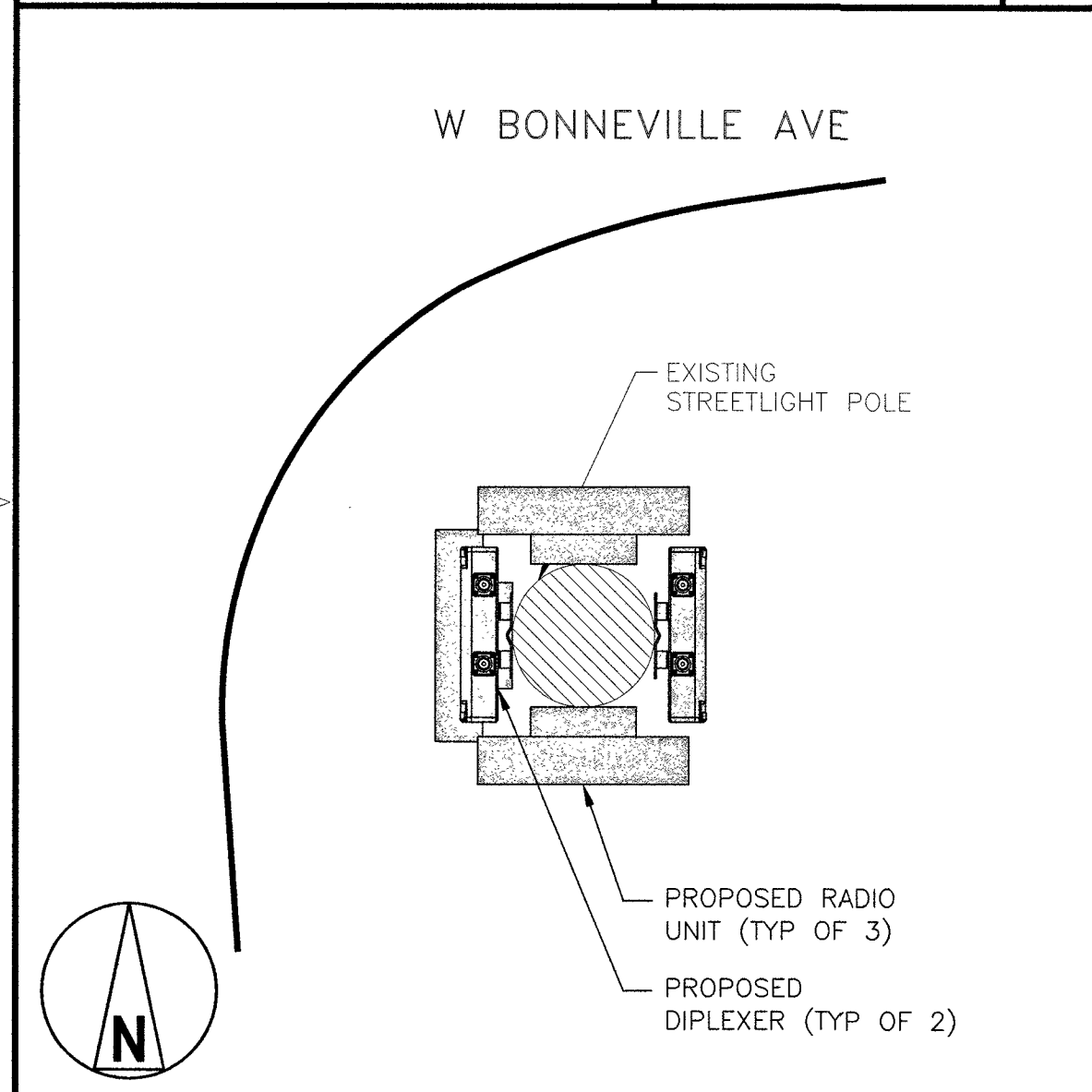




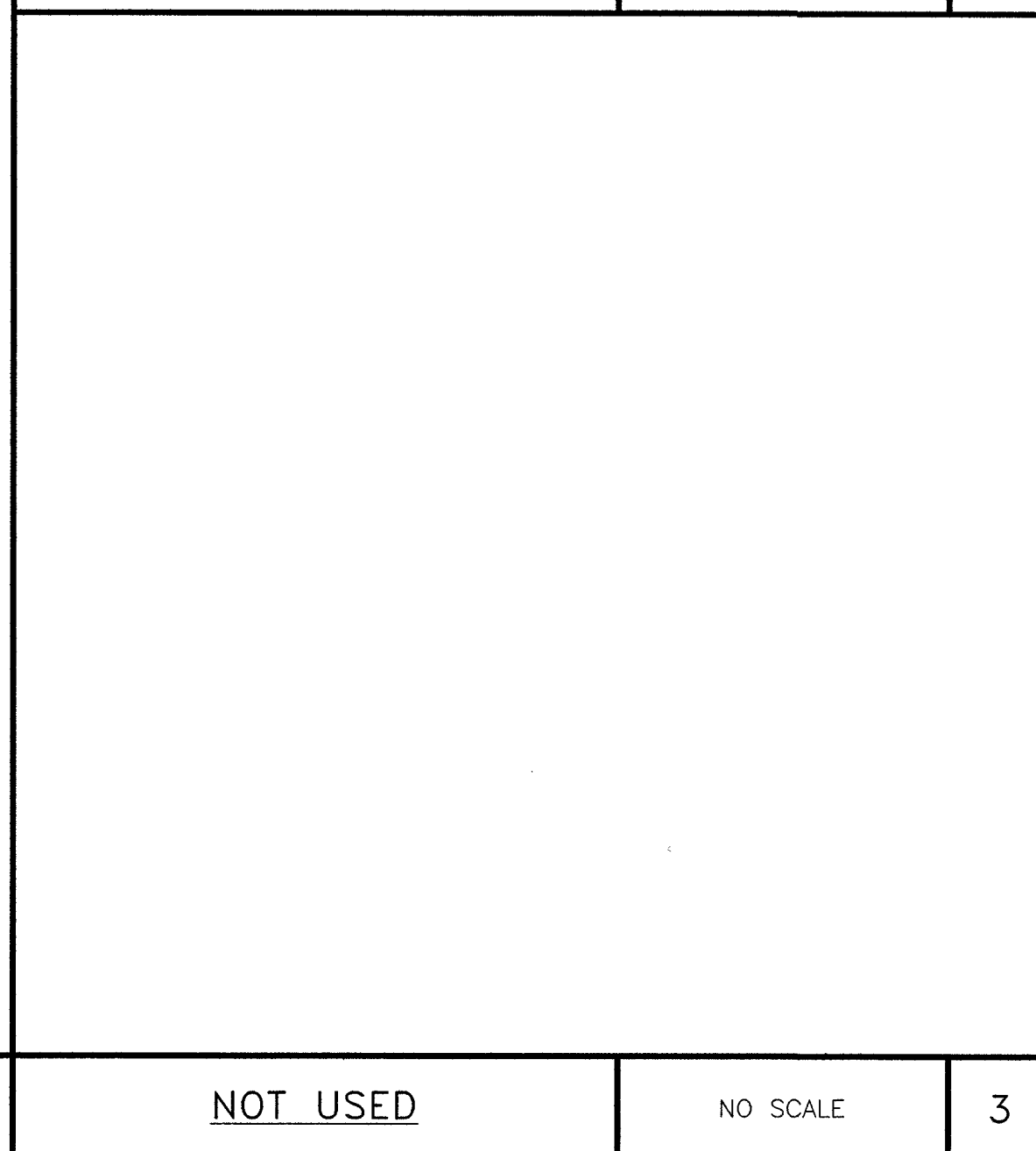
- NOTES**
1. ALL COAXIAL CABLE JUMPERS TO BE COMMSCOPE FSJ4-50B 1/2" OR ENGINEER APPROVED EQUAL.
 2. PAINT PROPOSED EQUIPMENT TO MATCH EXISTING POLE.



ANTENNA SPACE PLAN VIEW NO SCALE 1



RADIO SPACE PLAN VIEW NO SCALE 2



NOT USED NO SCALE 3



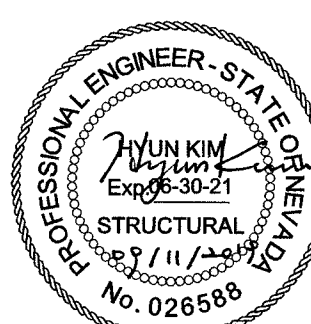
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SMALL CELL

SHEET TITLE

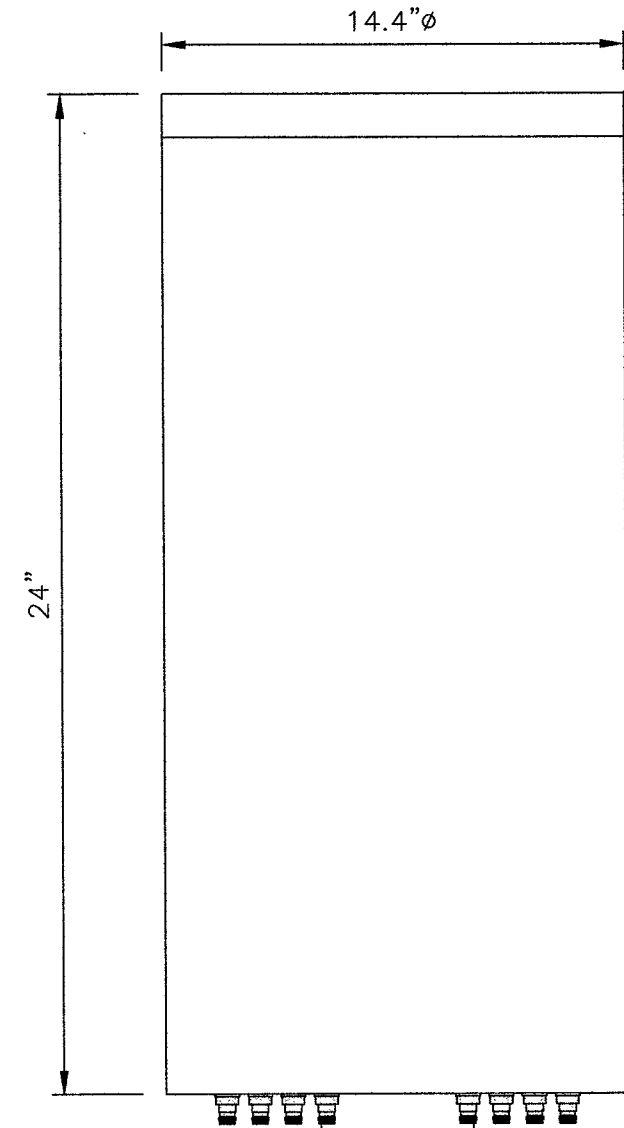
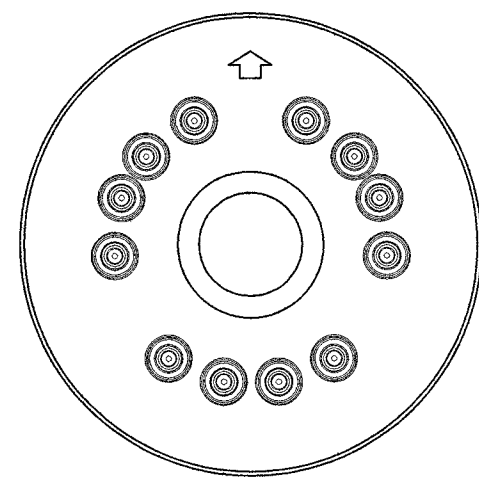
ELEVATIONS

SHEET NUMBER

A-2

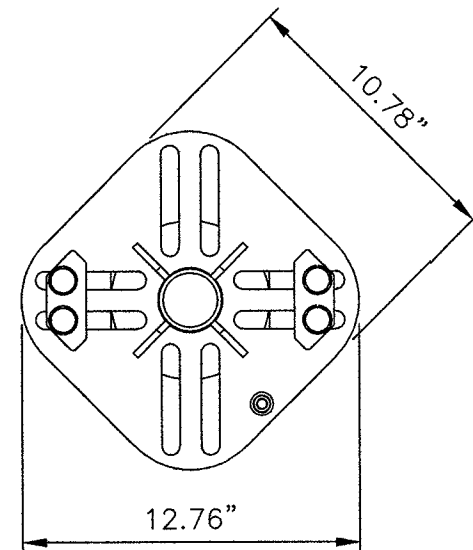
GAMMA NU DOYZ9X360F12

DIAMETER: 14.4" (365mm)
HEIGHT: 24" (610mm)
TOTAL WEIGHT (WITHOUT MOUNT): 29.7 lbs (13.5 kg)
CONNECTOR INTERFACE: (12) 4.3-10 FEMALE
RF CONNECTOR LOCATION: BOTTOM

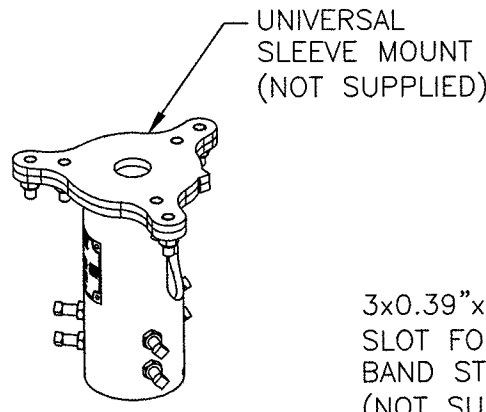


CONCEALFAB 007951MO

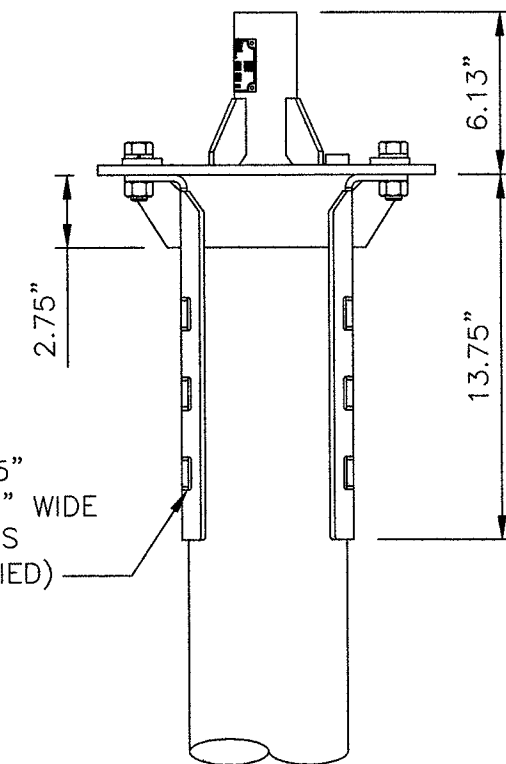
DIMENSIONS HxWxL: 19.875"x12.76"x12.76" (454x324x324 mm)
WEIGHT: 23 lbs (10.3 kg)
* DETAIL IS FOR GRAPHIC REPRESENTATION, CONTRACTOR MUST REFERENCE MANUFACTURERS DRAWINGS PRIOR TO CONSTRUCTION.



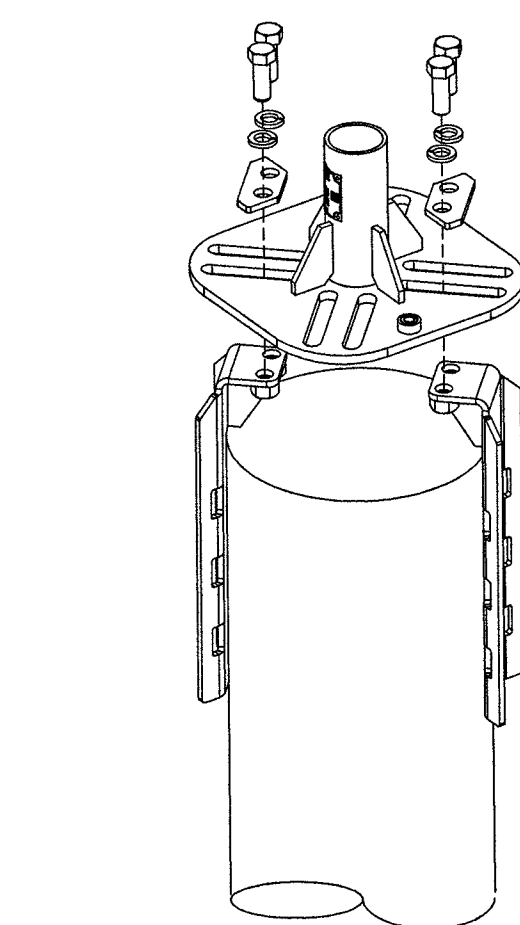
TOP VIEW



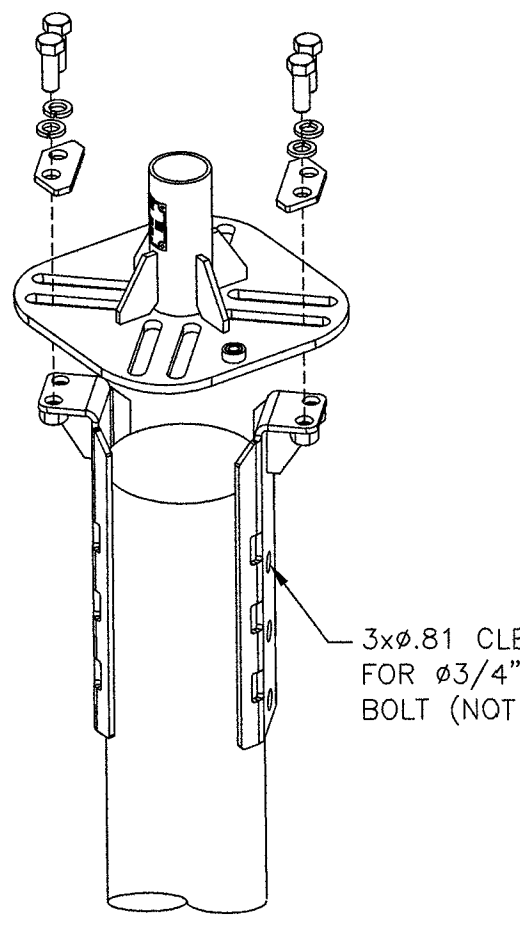
SLEEVE MOUNT
(NOT INCLUDED)



FRONT VIEW



STANDARD ARRANGEMENT FITS
7-1/8"Ø TO 14-1/8"Ø



ALTERNATIVE ARRANGEMENT FITS
5-1/4"Ø TO 7-1/8"Ø

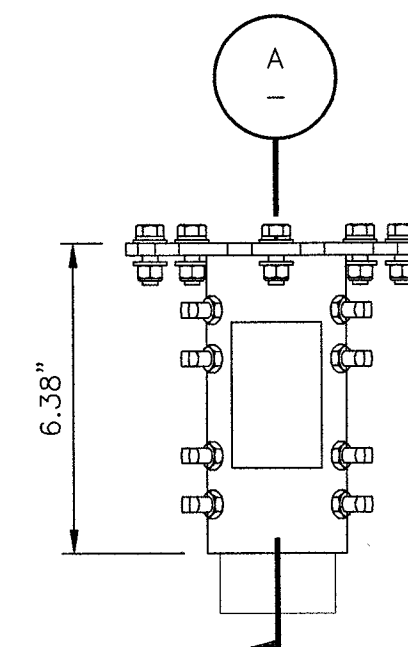
ANTENNA SPECIFICATIONS

NO SCALE

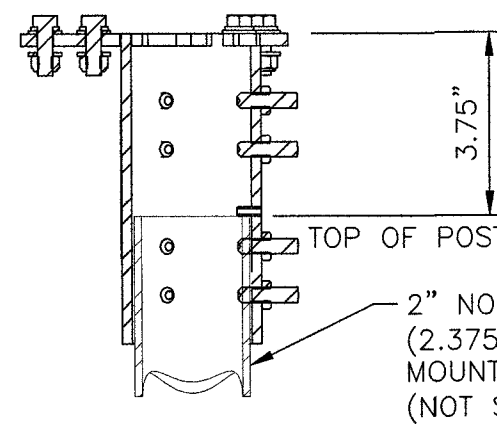
1

CONCEALFAB 900109

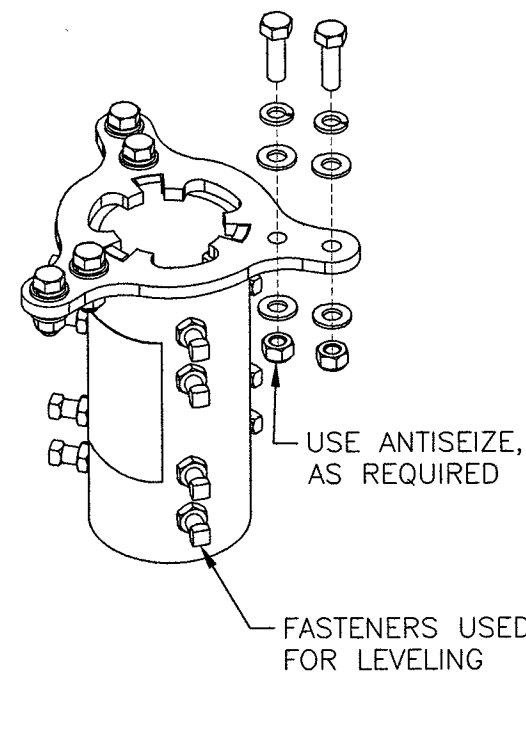
DIMENSIONS HxW: 6.38"x7.00"Ø (162.05x178mm)
WEIGHT: 4.66 lbs (2.11 kg)
* DETAIL IS FOR GRAPHIC REPRESENTATION, CONTRACTOR MUST REFERENCE MANUFACTURERS DRAWINGS PRIOR TO CONSTRUCTION.



FRONT VIEW



SECTION A



MOUNT ASSEMBLY

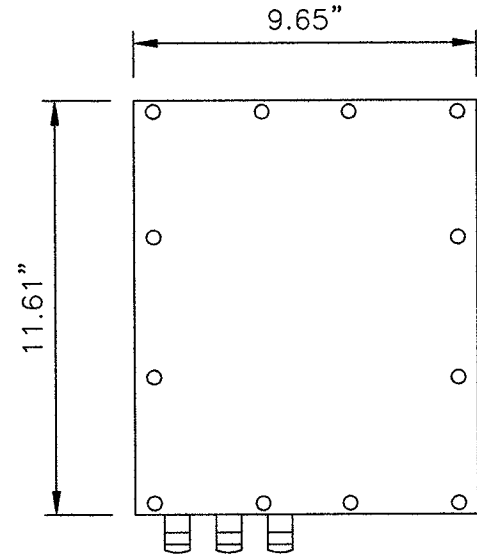
ANTENNA SLEEVE MOUNT

NO SCALE

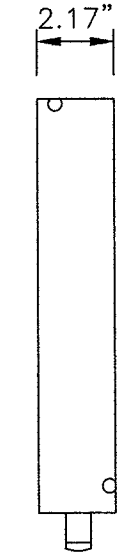
3

NOKIA AIRSCALE MICRO B25/B66A RRH

DIMENSIONS, HxWxD: 11.61"x9.65"x2.17" (295x245x55mm)
WEIGHT: 12.79 lbs (5.8 kg)
INTERFACES: (2) CPRI FRONTHAUL PORTS
(1) EXTERNAL ALARM PORT
POWER CONSUMPTION : TYP. 110W, MAX. 150W
TEMP. RANGE: -40°C TO +55°C



FRONT VIEW



SIDE VIEW

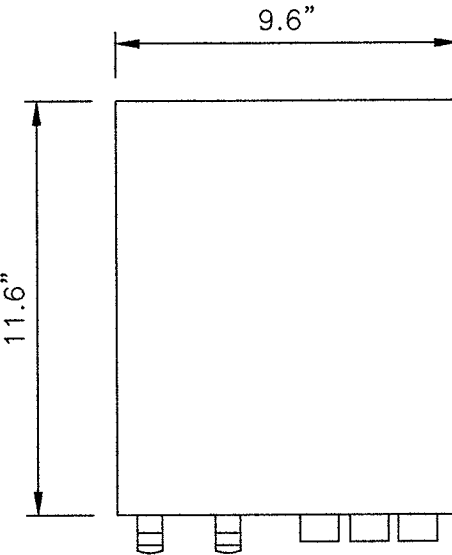
RADIO SPECIFICATIONS

NO SCALE

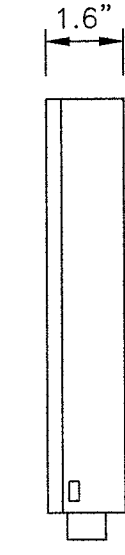
4

NOKIA AIRSCALE B46 (LAA) RRH

DIMENSIONS: 11.6"x9.6"x1.6"
WEIGHT: 11.0 lbs
INTERFACES: (2) CPRI FOR FRONTHAUL
ANTENNA CONFIGURATION: 2T MIMO
RF CONNECTIONS: NEX10 PLUS FEMALE



FRONT VIEW



SIDE VIEW

RADIO SPECIFICATIONS

NO SCALE

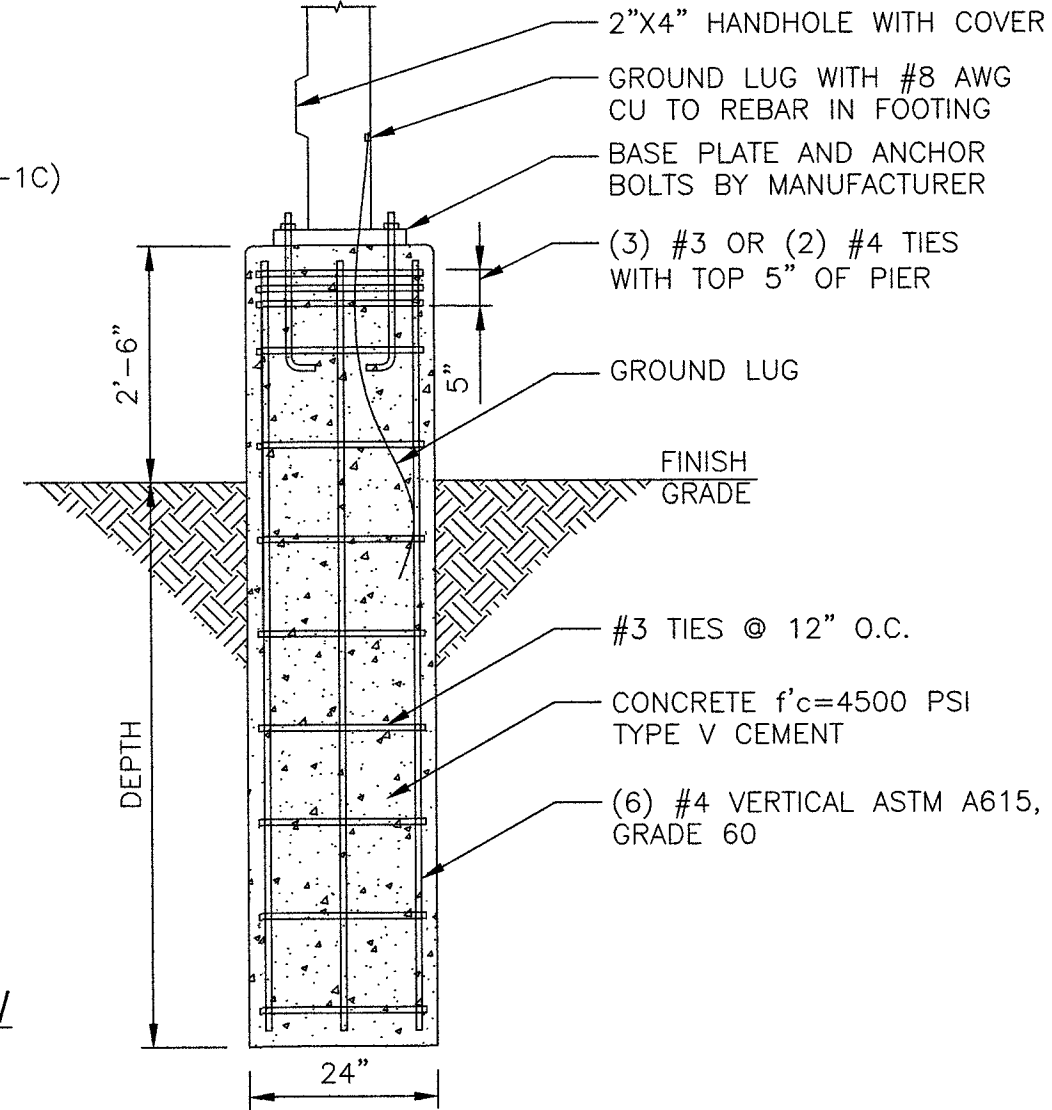
5

DESIGN CRITERIA

- * 2012 IBC
- * Vult = 105 MPH (ASCE 7-10 TBL 26.5-1C)
Vasd = 81 MPH
RISK CATEGORY 1
WIND EXPOSURE C
- * ALLOWABLE LATERAL BEARING PRESSURE = 100 PSF/FT
- * INCREASE FOR SHORT TERM LOADS, DEPTH, AND 1/2" MOVEMENT TAKEN.
- * ASSUMED 5 SQUARE FOOT RECTANGLE AT TOP OF POLE.

POLE HEIGHT	FOOTING DEPTH
8'-0"	2'-9"
12'-0"	3'-3"
20'-0"	4'-0"
30'-0"	5'-0"
40'-0"	6'-0"

PLAN VIEW



EXISTING BOLTED LIGHT POLE BASE DETAIL

NO SCALE

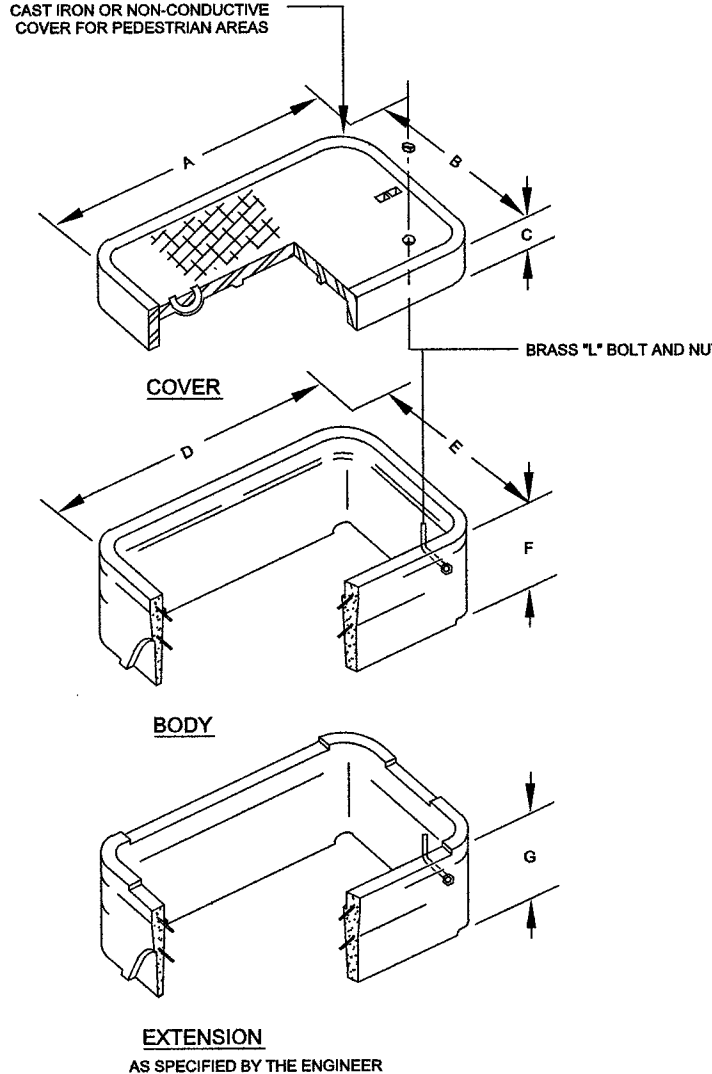
6

NOTES

1. COVERS INSTALLED IN TRAFFIC AND OPEN AREAS ACCESSIBLE TO TRAFFIC SHALL BE PER STANDARD DRAWING NO. 327.
2. SEE STANDARD DRAWING NO. 323 FOR COVER GROUNDING.
3. REFER TO SHEET GN-1 FOR ADDITIONAL HANDHOLE NOTES.

PULL BOX			
SIZE (COMMERCIAL DESIGNATION)			
	3-1/2	5	7
A	15	21-3/4	30-5/8
B	10	11-3/4	17-5/8
C	3/4	2	2
D	19-3/8	25	34-3/4
E	14-3/8	15	21-3/4
F	12	12	12
G	N/A	10-1/4	11-1/2

NOMINAL DIMENSION IN INCHES

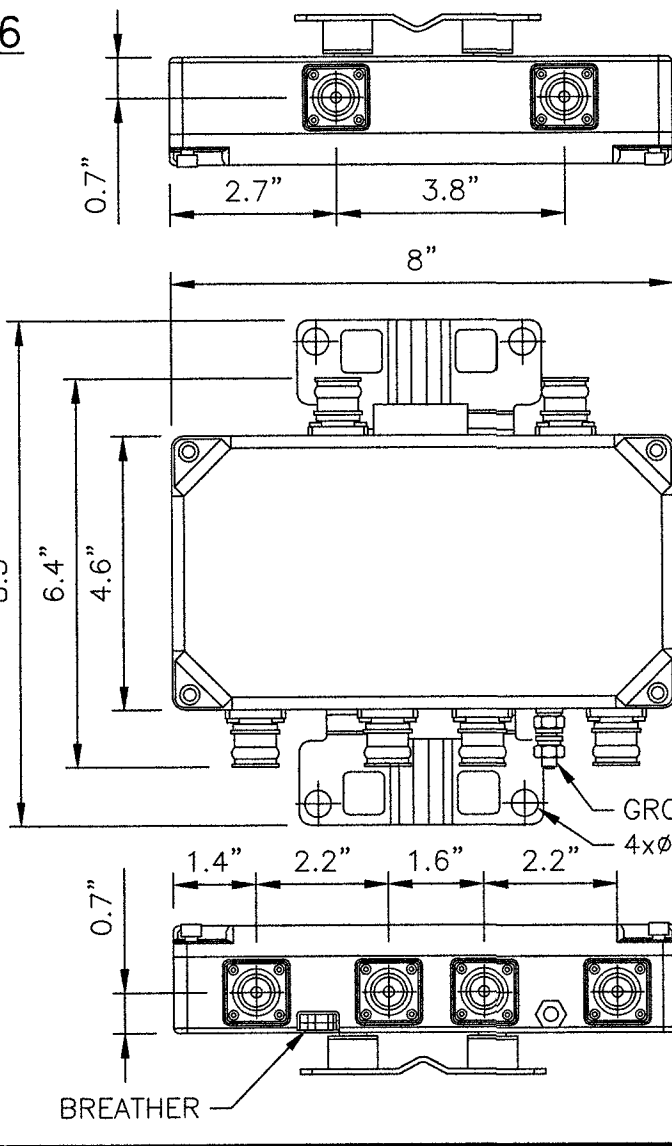
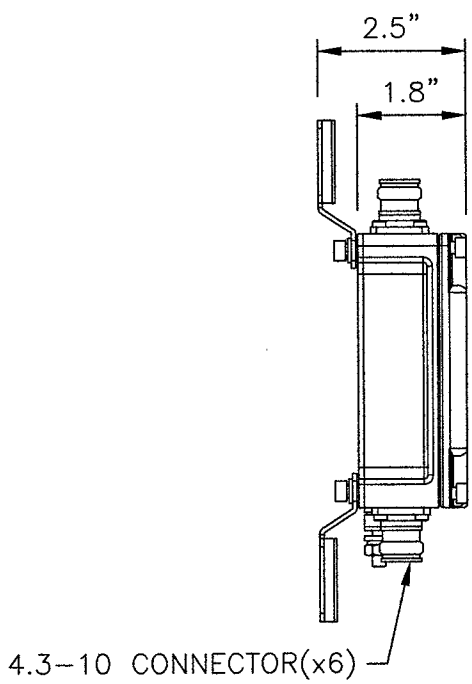


CONCRETE PULL BOX SPECIFICATIONS

NO SCALE

7

COMMSCOPE CBC1923T-4310 E11F13P06



4.3-10 CONNECTOR(x6)

BREATHING

DIPLEXER SPECIFICATIONS

NO SCALE

8



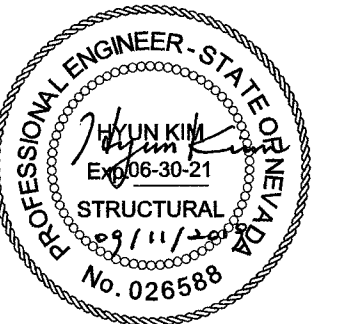
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PROJECT NO.	DRAWN BY	CHECKED BY
199064.2014	MBS	LEW

REV	DATE	DESCRIPTION
0	09/06/19	ISSUED FOR CONSTRUCTION



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SITE ADDRESS

33AT0067SMC
W BONNEVILLE AVENUE
LAS VEGAS, NV 89106
SMALL CELL

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMBER

D-1

**CAUTION**

STAY BACK 3 ft.
TO PREVENT
RADIO FREQUENCY
EXPOSURES ABOVE FCC
LIMITS. CALL NCC
1-877-897-2475
TO POWER DOWN.
SITE ID: 33AT0067SMC

**NOTICE**

SMALL CELL SHUT OFF SWITCH
Push switch button turn off radio
while working within 3 ft. of the
device

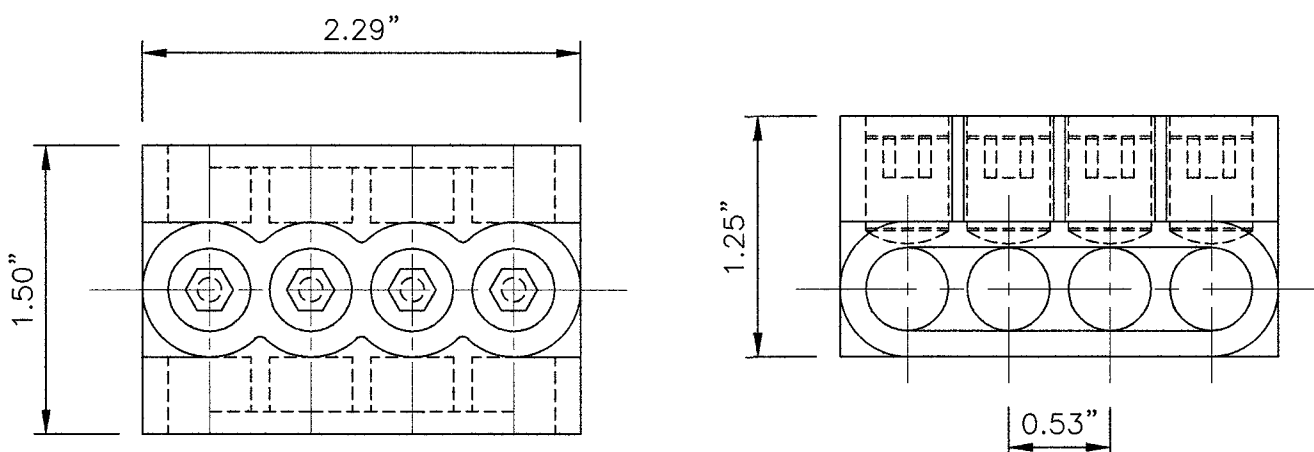
Note: Once work is completed
turn switch back on

RF WARNING PLACARDS

NO SCALE

1

MULTI-TAP CONNECTOR WITH CLEAR INSULATION,
DOUBLE-SIDED (PCSB4-4-6Y)



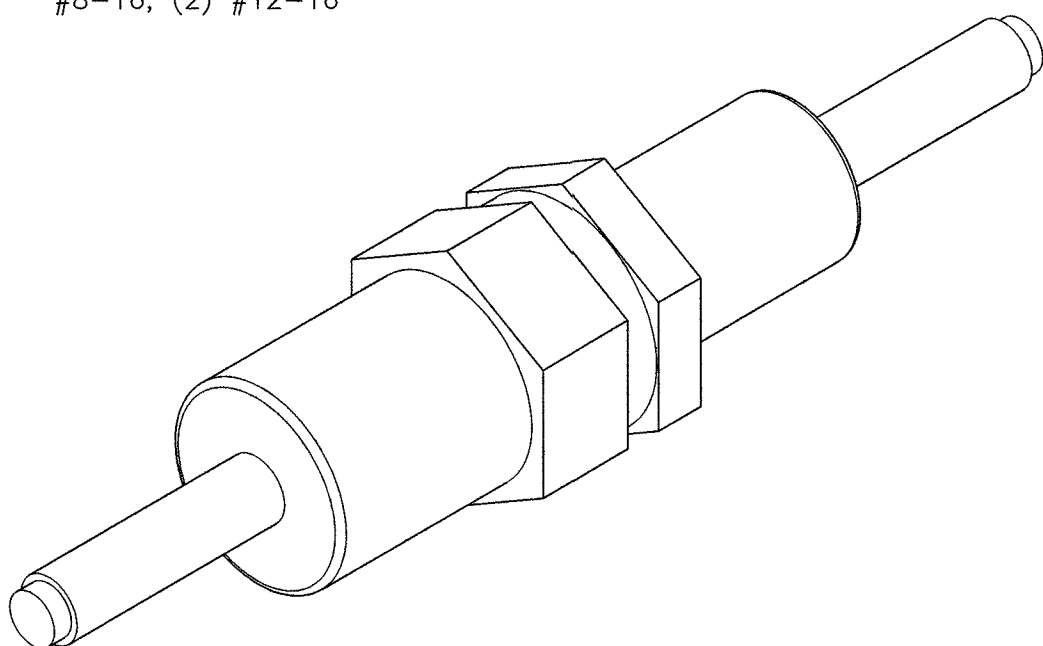
CONNECTOR DETAIL

NO SCALE

2

BUSSMAN HEB-AW-RLC-A

DIMENSIONS, LENGTH: 4.4"
WIRE RANGE: #8-16; (2) #12-16



BREAKAWAY FUSE DETAIL

NO SCALE

3

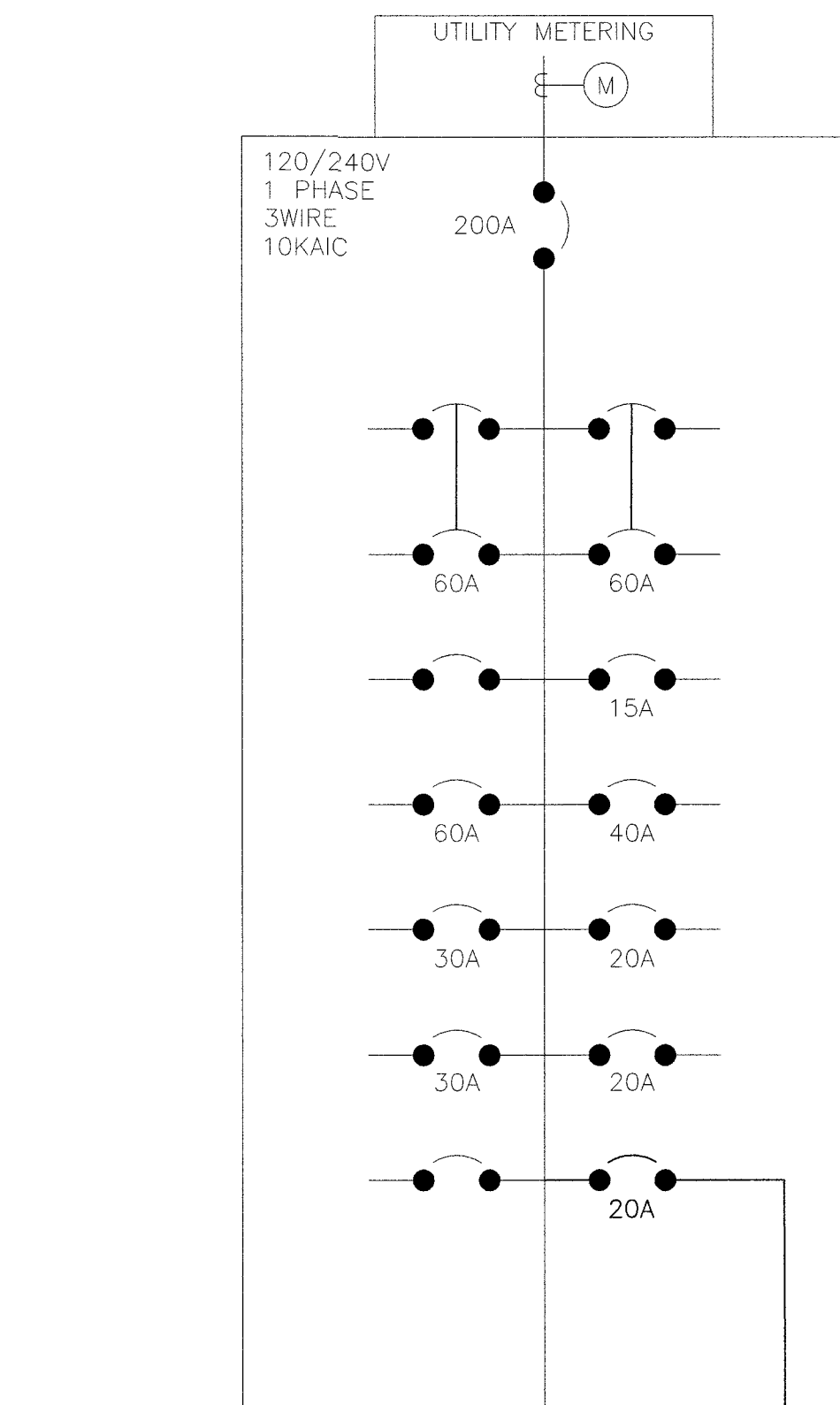
NOTES

- CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
- ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN-2, THW-2, RHW-2, XHHW-2 WIRE UNLESS NOTED OTHERWISE.
- ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED EDITION OF THE NATIONAL ELECTRIC CODE (NEC).
- ALL INSTALLED CONDUCTORS AND SIGNAL CABLES TO BE CLEARLY MARKED "COX COMMUNICATIONS" WITH BRASS OR FIBERGLASS TAGS.

120VAC FEEDER CONDUCTOR
MAXIMUM DISTANCE

#12 AWG	<240'-0"	3% VOLT DROP @ 3.75A
#10 AWG	240'-0"-400'-0"	3% VOLT DROP @ 3.75A
#8 AWG	400'-0"-615'-0"	3% VOLT DROP @ 3.75A
#6 AWG	615'-0"-980'-0"	3% VOLT DROP @ 3.75A
#4 AWG	980'-0"-1550'-0"	3% VOLT DROP @ 3.75A
#3 AWG	1550'-0"-1920'-0"	3% VOLT DROP @ 3.75A

EXISTING CITY OF LAS VEGAS
200A POWER PEDESTAL



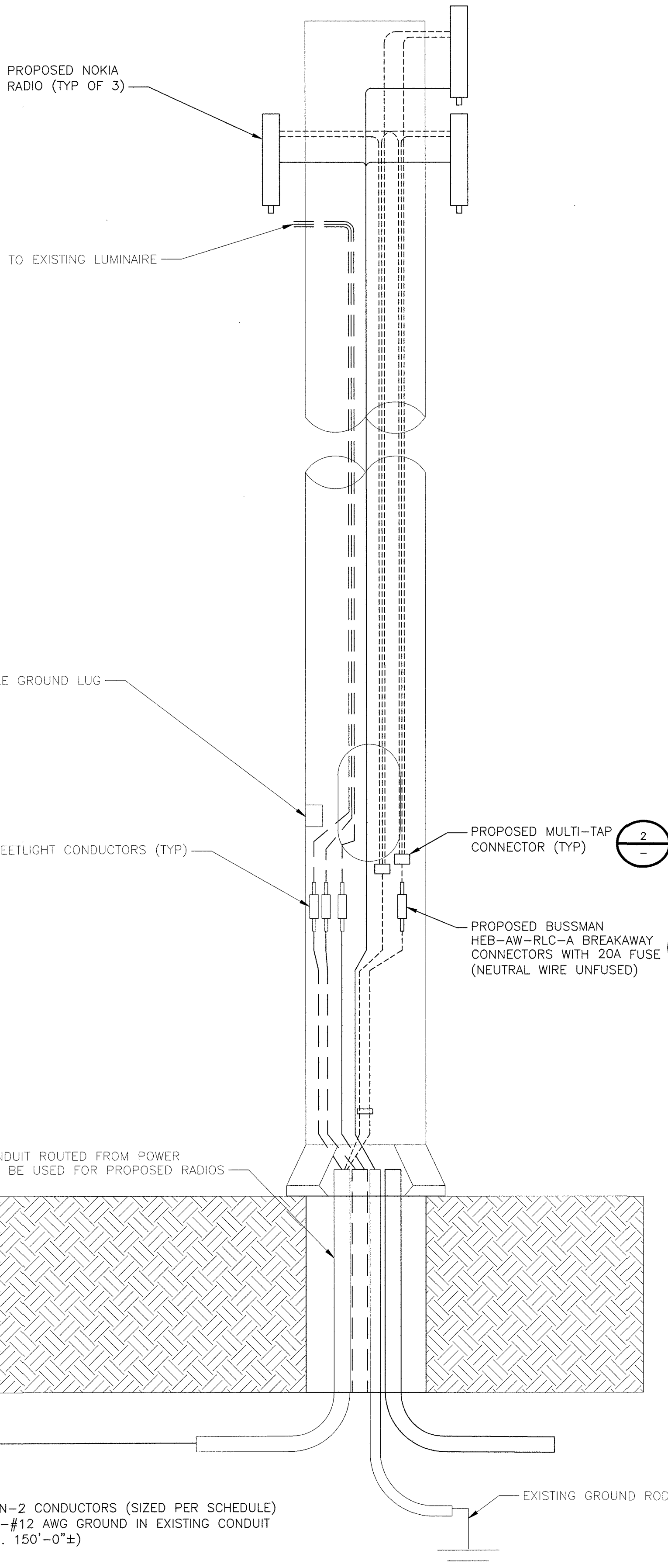
EXISTING POLE GROUND LUG

EXISTING STREETLIGHT CONDUCTORS (TYP)

EXISTING CONDUIT ROUTED FROM POWER
PEDESTAL TO BE USED FOR PROPOSED RADIOS

(2) THWN-2 CONDUCTORS (SIZED PER SCHEDULE)
AND (1)-#12 AWG GROUND IN EXISTING CONDUIT
(APPROX. 150'-0"±)

EXISTING GROUND ROD



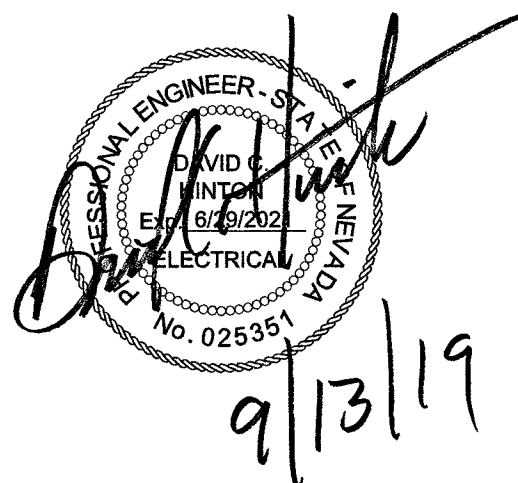
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PROJECT NO.	DRAWN BY	CHECKED BY
199064.2014	MBS	LEW

REV	DATE	DESCRIPTION
0	09/06/19	ISSUED FOR CONSTRUCTION
2		
3		



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SITE ADDRESS

33AT0067SMC
W BONNEVILLE AVENUE
LAS VEGAS, NV 89106
SMALL CELL

SHEET TITLE

ELECTRICAL DETAILS
AND DIAGRAMS

SHEET NUMBER

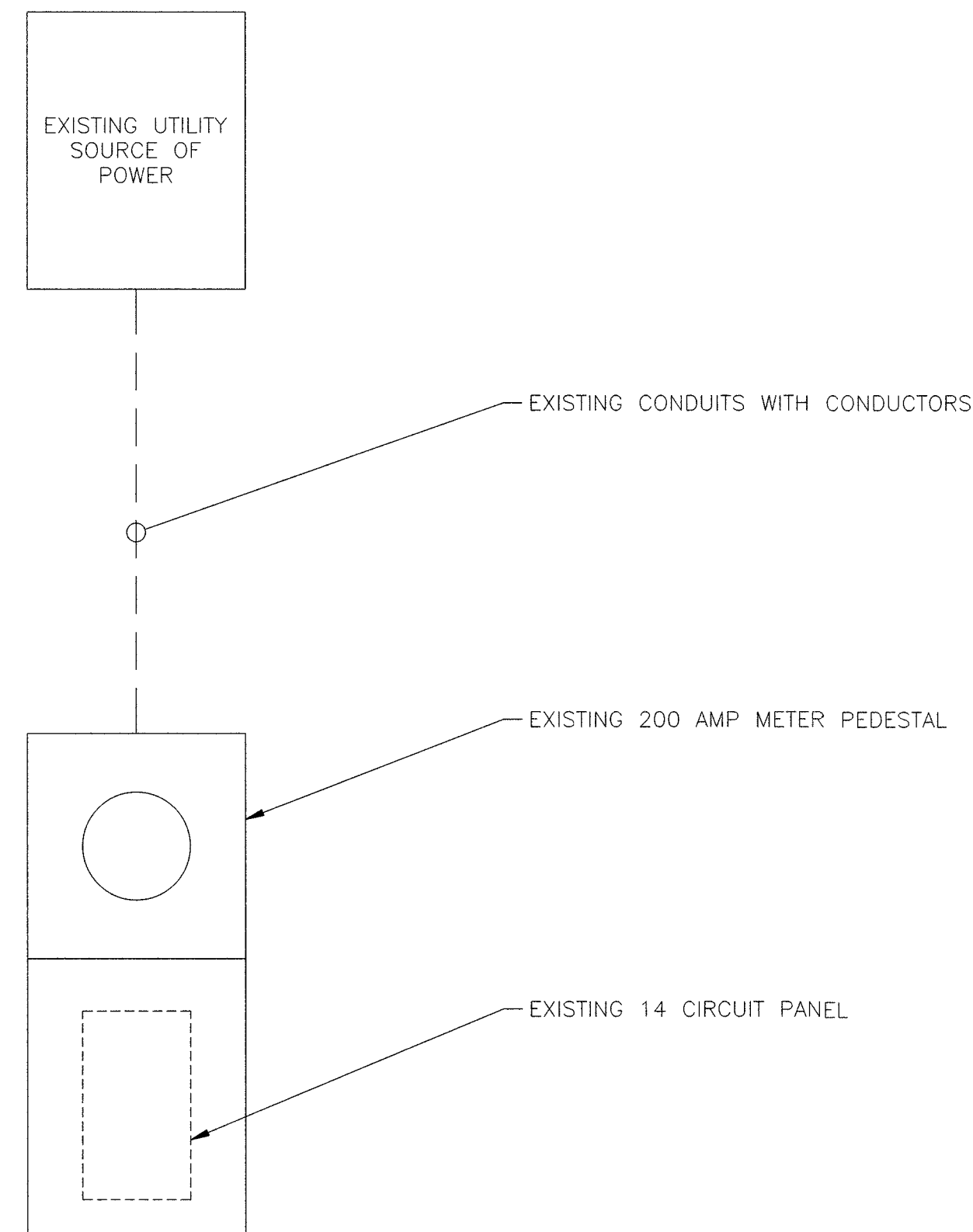
E-1

TYPICAL POLE SITE TEMPLATE

NO SCALE

4

EXISTING LOAD.....10.40 AMPS
ALLOWED LOAD 80%.....160 AMPS

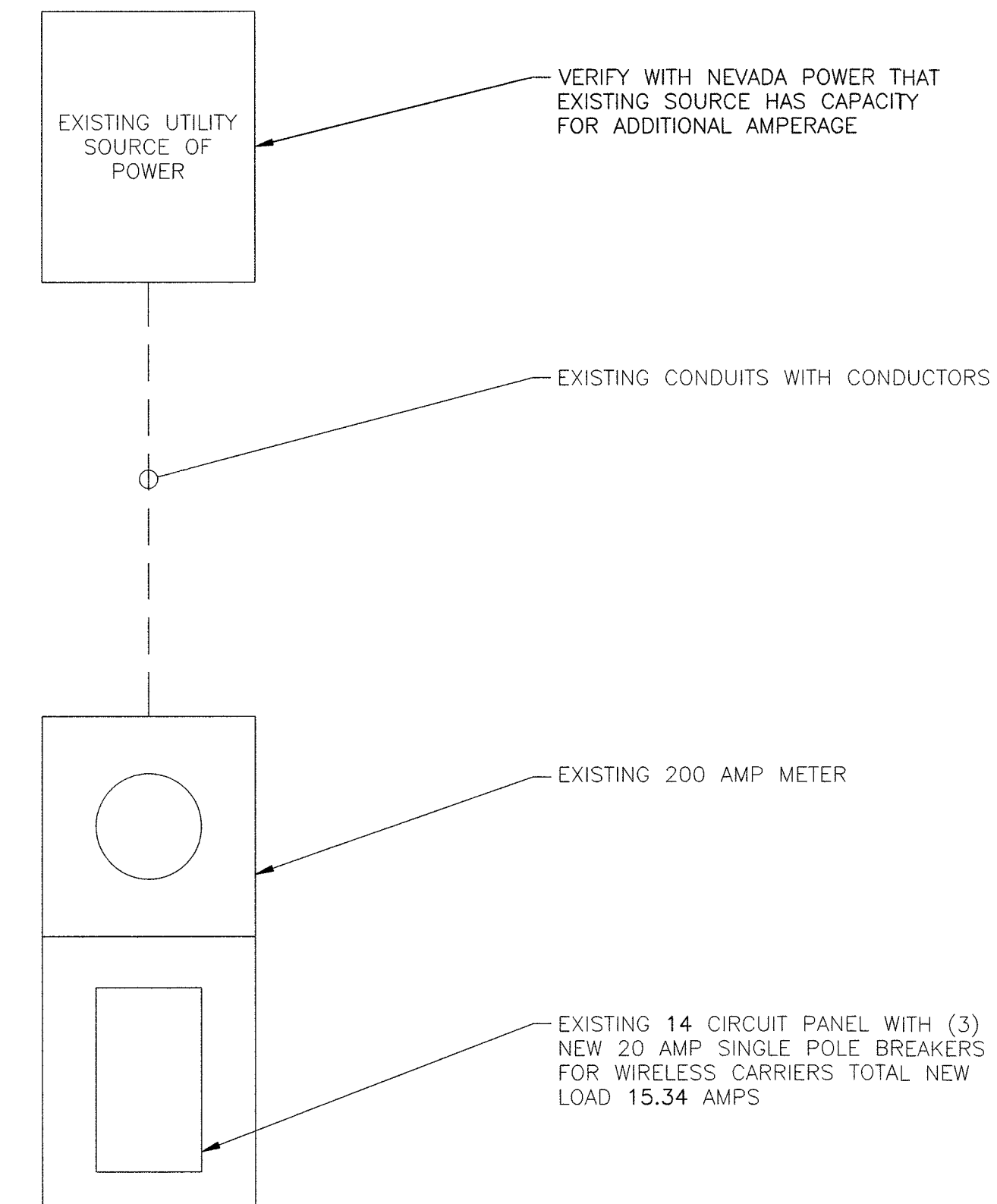


EXISTING SINGLE LINE DIAGRAM

NO SCALE

1

EXISTING LOAD.....	10.40 AMPS
SAFETY FACTOR 125%.....	13.00 AMPS
PROPOSED LOAD.....	2.34 AMPS
TOTAL LOAD.....	15.34 AMPS
ALLOWED LOAD 80% OF 200 AMPS.....	160 AMPS



PROPOSED SINGLE LINE DIAGRAM

NO SCALE

2

Site Name:		W BONNEVILLE AVENUE						MODEL NUMBER:		EXISTING CITY OF LAS VEGAS METER AND POWER PEDESTAL											
SITE NUMBER:		33AT0067SMC						PHASE:		1				WIRE:		3					
VOLTAGE:		240 /120		Volts AC				BUSS RATING:		200		AMPS									
MAIN BREAKER:		200 AMPS																			
MOUNT:		SURFACE																			
ENCLOSURE TYPE:		NEMA 3R																			
PANEL STATUS:		EXISTING																			
CKT	LOAD DESCRIPTION	BREAKE R AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT				
1	SPARE	60	2	OFF	0	1.00	1.00	0		1.00	1.00	0	OFF	2	60	SPARE	2				
3					0	1.00	1.00		0	1.00	0	4									
5						1.00	1.00	0		1.00	1.00	0	ON	1	15	SPARE	6				
7	STREET LIGHTS	60	1	ON	420	1.00	1.25		3120	1.25	1.00	2076	ON	1	40	EXISTING LOAD	8				
9	SPARE	30	1	OFF	0	1.00	1.00	0		1.00	1.00	0	OFF	1	20	COX SMALL CELL (FUTURE)	10				
11	SPARE	30	1	OFF	0	1.00	1.00		0	1.00	1.00	0	OFF	1	20	COX SMALL CELL (FUTURE)	12				
13								563		1.25	1.00	450	NEW	1	20	PROPOSED COX SMALL CELL	14				
								PHASE A	PHASE B												
								563	3120	VA											
								TOTAL		KVA	3.68										
										AMPS	15.34	≤ 80% OF MAIN BREAKER									

PROPOSED PANEL SCHEDULE AND CALCS

NO SCALE

3



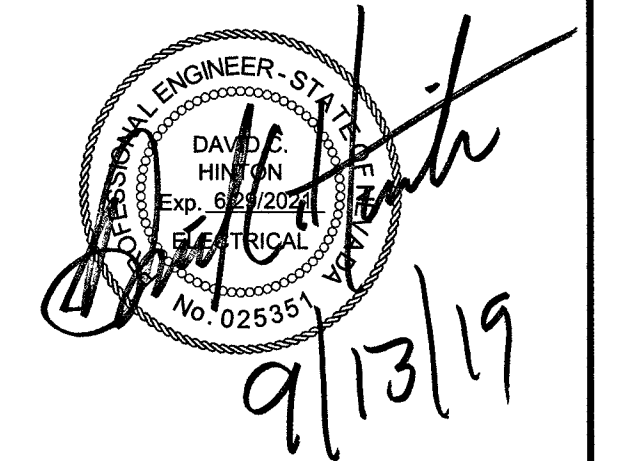
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REV	DATE	DESCRIPTION



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SITE ADDRESS

33AT0067SMC
W BONNEVILLE AVENUE
LAS VEGAS, NV 89106
SMALL CELL

SHEET TITLE

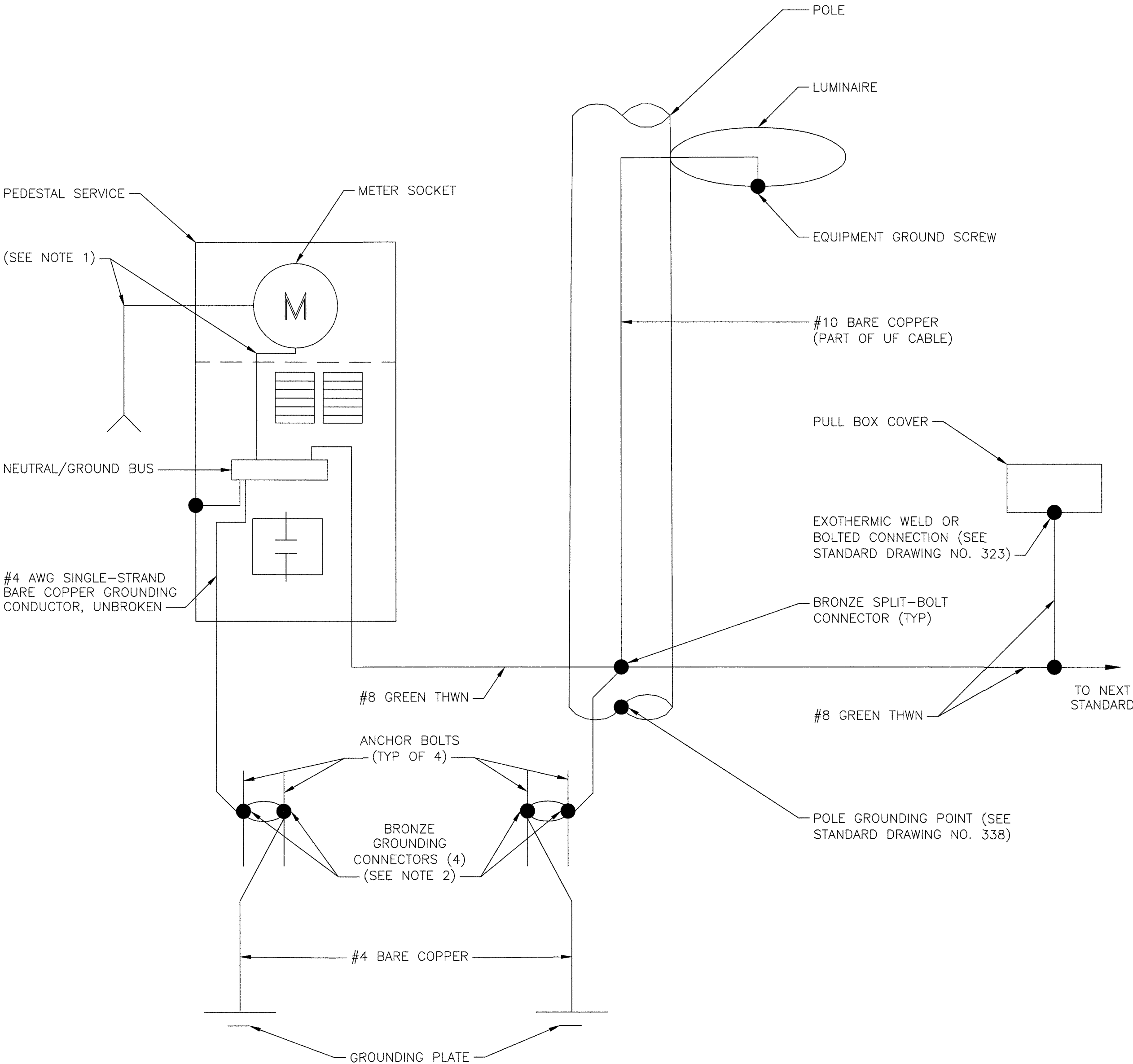
ELECTRICAL SINGLE LINE DIAGRAMS

SHEET NUMBER

E-2

NOTES

1. FOR CONDUIT SIZE AND WIRING REQUIREMENTS FOR STREETLIGHT SERVICE, SEE STANDARD DRAWING NO. 332.S2 FOR LAS VEGAS AND CLARK COUNTY ONLY AND 332.S1 FOR ALL OTHER ENTITIES.
2. SEE STANDARD DRAWING NO. 321, 332.S1, OR 332.S2.



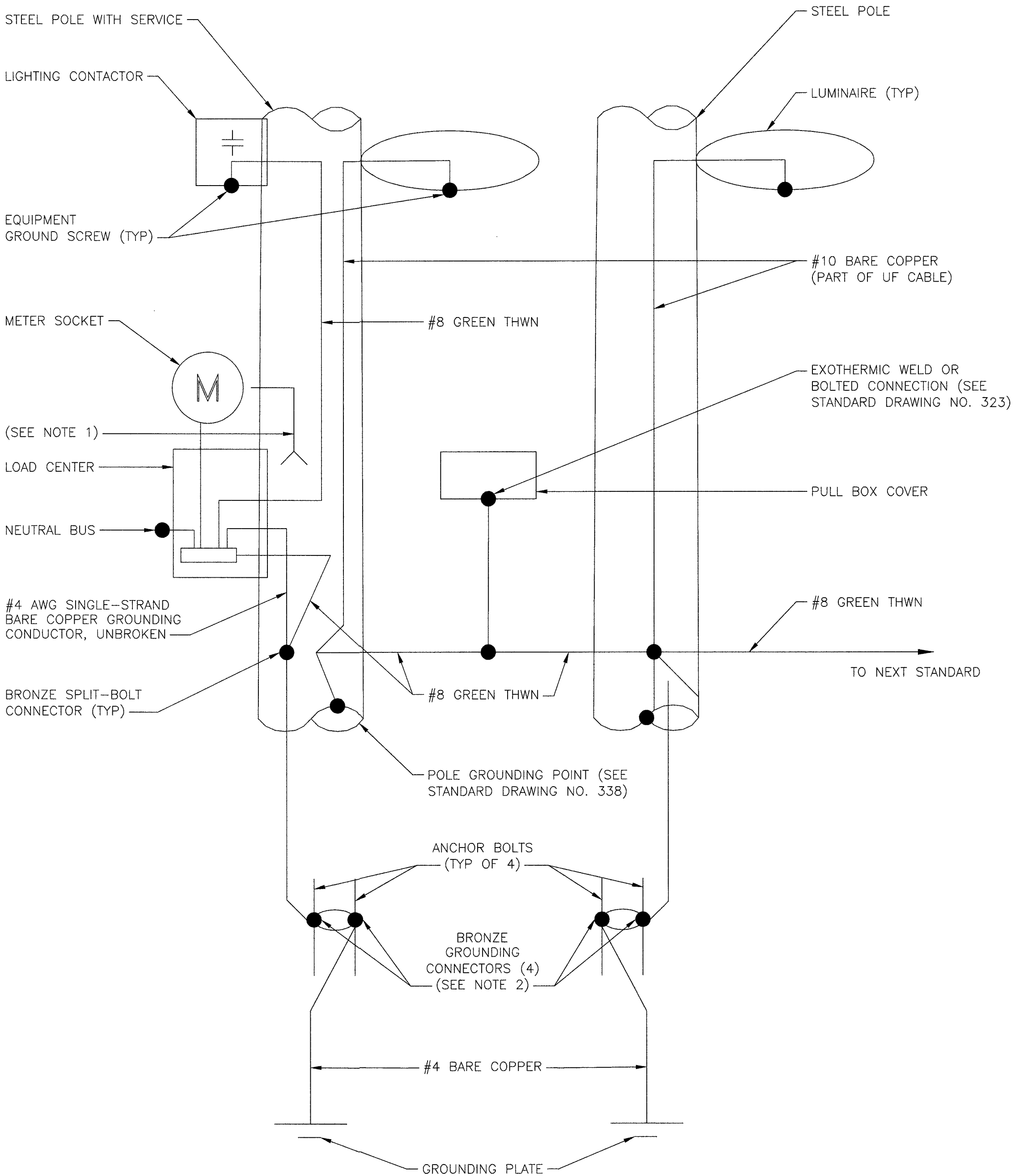
METER PEDESTAL GROUNDING DIAGRAM

NO SCALE

1

NOTES

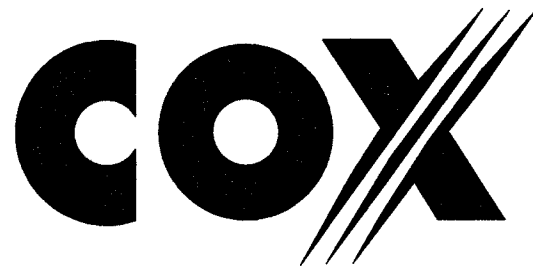
1. 125 AMP SERVICE: 1 #4 WHITE THW
200 AMP SERVICE: 1 #1/0 WHITE THW



POLE EQUIPMENT GROUNDING DIAGRAM

NO SCALE

2



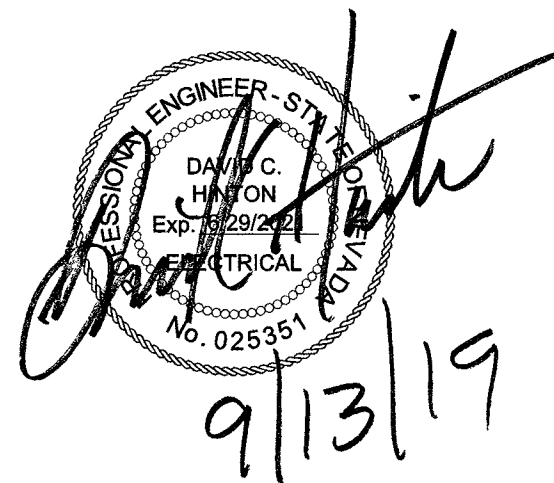
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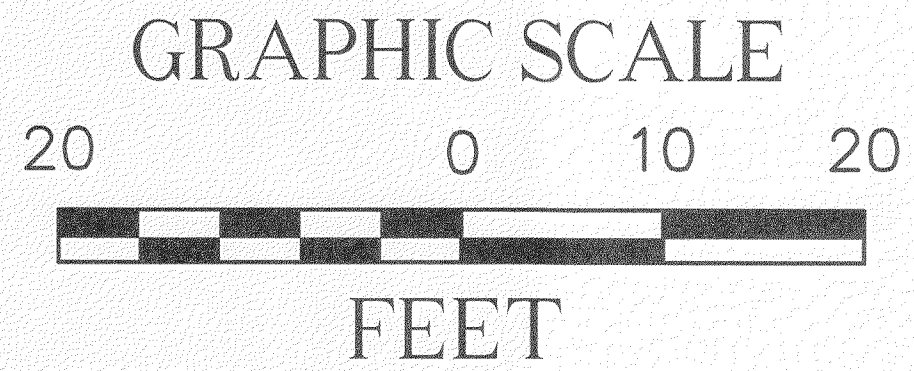
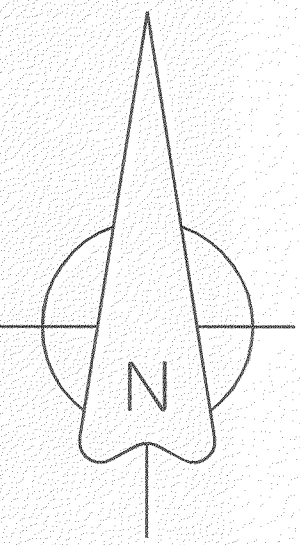
SITE ADDRESS
33AT0067SMC
W BONNEVILLE AVENUE
LAS VEGAS, NV 89106
SMALL CELL

SHEET TITLE
GROUNDING DIAGRAMS

SHEET NUMBER

G-1

SMALL CELL SITE SURVEY
SITE: 33AT0067SMC
SW¼NE¼, SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST



A LATITUDE: 36°09'58.31"N
LONGITUDE: 115°09'27.41"W
GROUND ELEVATION: 2039.41'
NAVD '88

Legend	
	MONUMENT
	POLE
	DOWN GUY
	GAS VALVE
	PEDASTAL
	LAMP POST
	WATER VALVE
	FIRE HYDRANT
	WATER MANHOLE
	WATER METER
	SEWER MANHOLE
	UNKNOWN OR LABELED MANHOLE
	SANITARY SEWER MANHOLE
	STORM WATER MANHOLE
	ELECTRIC MANHOLE
	TELECOM MANHOLE
	TREE
	FENCELINE
	ROW LINE
	CENTER LINE
	SEWER
	TELEPHONE
	WATER
	ELECTRIC
	GAS LINE
	OVERHEAD ELEC
	FENCE BARB
	PROPERTY LINE

COX

6205-B Peachtree Dunwoody Road NE
Atlanta, GA 30328

ENGINEERS:

BLACK & VEATCH

6 SUNSET WAY
SUITE B108
HENDERSON, NV 89014

SITE NO: 33AT0067SMC
DRAWN BY: KJC
CHECKED BY: CIS

REV	DATE	DESCRIPTION
A	8/20/19	PRELIMINARY SUBMITTAL

SURVEYOR:

CIS

PROFESSIONAL LAND SURVEYING
435-660-0816

CIS JOB NO:
CIS 315-2-8

SHEET TITLE
**SMALL CELL
SITE SURVEY**

SHEET NUMBER
1 OF 1

Parcel: 13933710005
Owner Name(s): SIMON CHelsea L V DEV L L C
Site Address: 625 S GRAND CENTRAL PKWY



SMALL CELL SITE SURVEY

Department of Public Works - TEFO

- THIS FORM IDENTIFIES THE POTENTIAL POWER SUPPLY SOURCE FOR A PROPOSED SMALL CELL SITE.
- THIS ONLY REPRESENTS THE CONDITIONS AT TIME OF SITE SURVEY.
- FIELD CONDITIONS MAY CHANGE FROM THE TIME OF THE SITE SURVEY UNTIL THE START OF CONSTRUCTION.
- A REQUEST FOR A SMALL CELL SITE SURVEY BY A CONTRACTOR OR WIRELESS SERVICE PROVIDER DOES NOT CONSTITUTE A REQUEST FOR AUTHORIZATION TO PLACE, CONSTRUCT OR MODIFY PERSONAL WIRELESS SERVICE FACILITIES FOR PURPOSES OF ANY FEDERAL, STATE OR LOCAL RULE, LAW OR ORDER. THE ACTIONS BY THE CITY AND THE CONTRACTOR IN SURVEYING THE SITE INDICATED BELOW IS NECESSARY TO PROVIDE THE INFORMATION NECESSARY TO A WIRELESS SERVICE PROVIDER TO PREPARE ITS APPLICATION(S) FOR AUTHORIZATION TO PLACE, CONSTRUCT OR MODIFY PERSONAL WIRELESS SERVICE FACILITIES.

Contractor's Name: Black & Veatch

Wireless Use Agreement: Cox Telcom

Wireless Service Provider/ID#: AT&T 33AT0067SMC

Contact Name: Garrett Caldwell

Office Phone/Fax: 7760 France Ave S. #1200 Bloomington MN 55435/ 952-896-0881

Cell: 612-875-1551

Pole Location & ID: SEC Bonneville & Premium Outlet

Pole Type: ☐ New Pole

Notes:

☒ Existing Pole

Pole coordinates are: 36.166202 -115.157632
Suitable for use to serve small cell site without upgrade.

EXISTING SERVICE INFORMATION

Service Location: 1201 W. Bonneville

Existing Meter #: BB111475833

Premise #: _____

Existing Service Size:

☐ 60 Amp

☐ 100 Amp

☐ 125 Amp

☒ 200 Amp

Street Light Circuit: _____

Service Type:

☒ Pedestal

☐ Pole Mount

☐ Wall Mount

Current Application:

☐ Traffic Signal

☐ Street Lighting

☒ Both

Existing Load (Amps): Traffic Signal: 20.8

Street Lighting: 0.0 (Future)

Combined: 20.8

Field Tested By: B. Comeau

Date: 07/30/2019

CLV REPRESENTATIVE FOR INTERNAL USE ONLY

CLV Field Reviewer's Name: K. Kelley

Field Review Date: 07/30/2019

Senior/Supervisor Review Signature: _____

Date Reviewed: 7/31/19