

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 RIGID CONDUIT 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.

1

1. CONCRETE COLLARS MAY BE DESIRED FOR INSTALLATIONS IN DRIVEWAYS, PARKING LOTS AND OFF-ROADWAY APPLICATIONS WHERE SUBJECT TO OCCASIONAL NON-DELIBERATE TRAFFIC. THIS APPLIES TO BOXES MADE FROM ANY MATERIAL TO PROVIDE ADDED PROTECTION FOR THE TOP LID. THIS IS NOT NECESSARY IN GRASSY AREAS OR AREAS SUBJECT TO PEDESTRIAN TRAFFIC.
2. CONCRETE ENCASEMENT TO BE 3,000 PSI MIN.
3. CONCRETE ENCASEMENT COLLAR DIMENSION "D" TO BE EQUAL TO DESIGN PAVEMENT DEPTH.
4. PAVEMENT AND SUBGRADE TO BE SHOWN ON THE ENGINEERING PLANS.
5. EXCAVATE THE HOLE APPROXIMATELY 6 TO 8" DEEPER THAN SUGGESTED HANDHOLE BURIAL DEPTH.
6. COMPACT THE SUBSOIL WITH A BACK-HOE OR A HYDRAULIC TAMPER. ADD APPROXIMATELY 6 TO 8" OF GRAVEL TO THE BOTTOM OF HOLE.
7. PLACE THE HANDHOLE ON THE LEVELED GRAVEL BED. LEVEL THE HANDHOLE.
8. BACK-FILL WITH LOOSE EARTH MATERIAL UP TO THE TOP SURFACE OF THE HANDHOLE. DO NOT BACK-FILL WITH CHUNKS OF FROZEN MATERIAL OR LARGE ROCKS NEXT TO THE GROUND SLEEVE. PACK THE BACK-FILL MATERIAL BY FOOT TAMPING, NO MACHINE TAMPING.
9. PROVIDE BARRIER HUBBELL QUAZITE # PG 2436BC30.
10. ALL UNDERGROUND CONDUITS SHALL BE SCH 40 PVC. EXCEPT THAT ELBOWS AND RISERS SHALL BE RMC ALL UNDERGROUND ELBOWS SHALL BE SWEEPING BENDS. 2'-0" MINIMUM SHALL BE REQUIRED.
11. THREE CONDUITS ARE SHOWN BELOW, HOWEVER MULTIPLE CONDUITS CAN BE PLACED IN THE SAME TRENCH. A MINIMUM SEPARATION IS REQUIRED PER THE LOCAL JURISDICTIONS AND UTILITY COMPANIES. IN ALL OTHER CASES USE THE CONDUIT SPACING SCHEDULE TO MAINTAIN MINIMUM SPACING BETWEEN THE EXTERIOR WALL TO EXTERIOR WALL SEPARATION OF CONDUITS.
12. CONTRACTOR SHALL RESTORE THE TRENCH TO ITS ORIGINAL CONDITIONS BY EITHER SEEDING OR SODDING GRASS AREAS, OR REPLACING ASPHALT OR CONCRETE AREAS TO ITS ORIGINAL CROSS SECTION.
13. TRENCHING SAFETY; INCLUDING, BUT NOT LIMITED TO SOIL CLASSIFICATION, SLOPING, AND SHORING, SHALL BE GOVERNED BY THE CURRENT OSHA TRENCHING AND EXCAVATION SAFETY STANDARDS.
14. ALL CONDUITS SHALL BE INSTALLED IN COMPLIANCE WITH THE NATIONAL ELECTRIC CODE (NEC) OR AS REQUIRED BY THE LOCAL JURISDICTION.

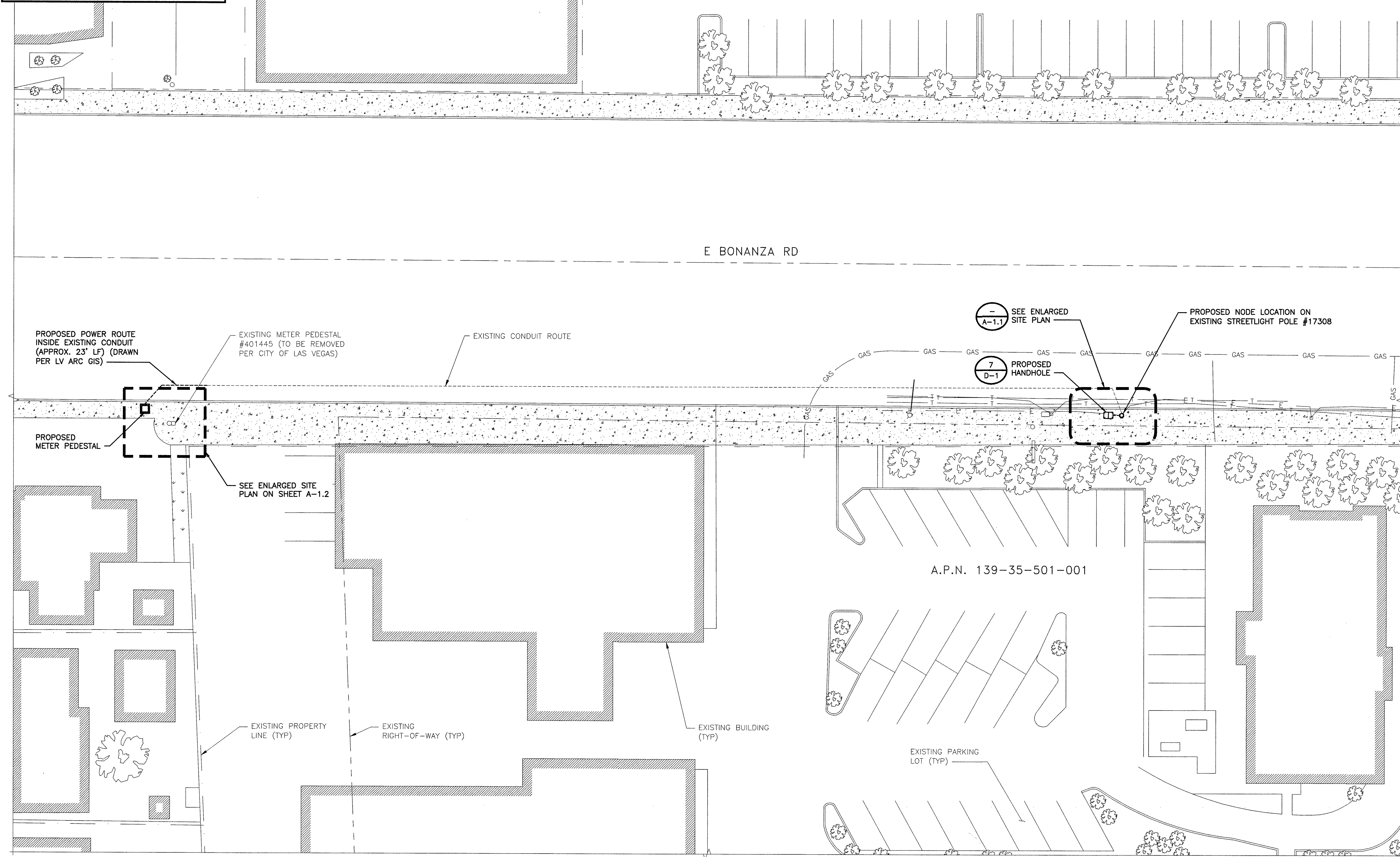


LEGEND

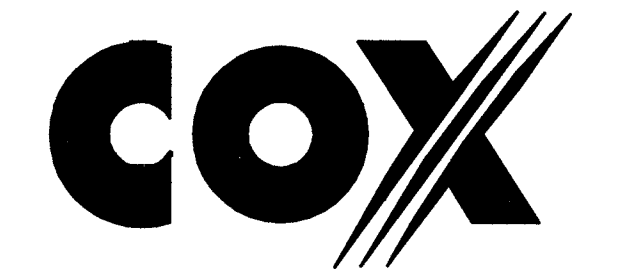
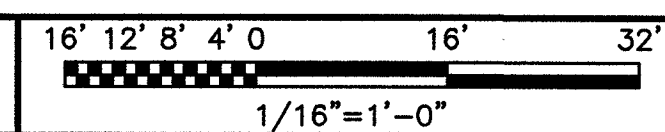
FACILITIES TO BE INSTALLED

FACILITIES TO BE REMOVED,
ABANDONED AND/OR ADJUSTED

EXISTING FACILITIES



OVERALL SITE PLAN



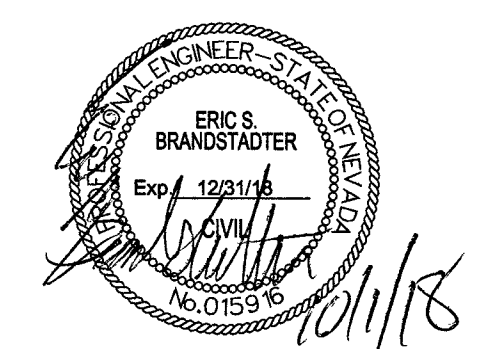
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PROJECT NO.	DRAWN BY	CHECKED BY
199064.2035	MSC	LEW

REV	DATE	DESCRIPTION
0	09/28/18	ISSUED FOR CONSTRUCTION



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SITE ADDRESS

33AT0088SMC-A
CRAN_NVL08122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

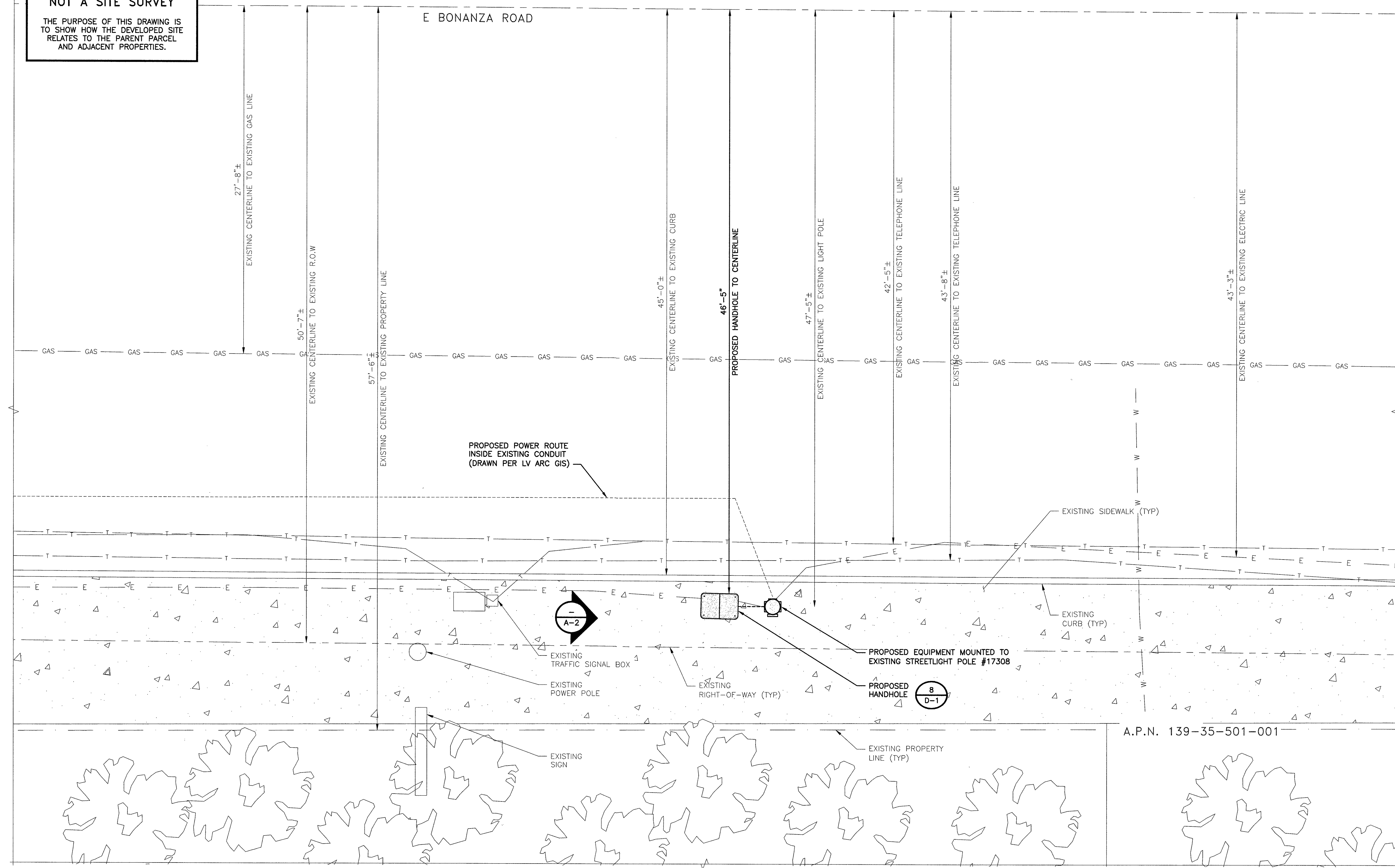
OVERALL SITE PLAN

SHEET NUMBER

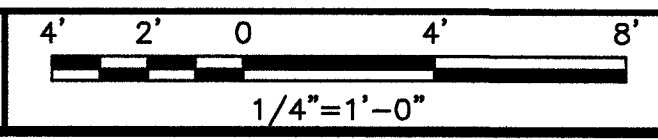
A-1

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.



ENLARGED SITE PLAN



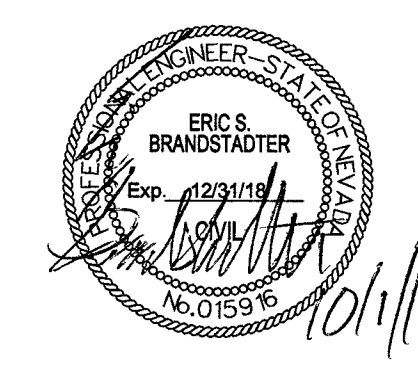
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2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

ENLARGED SITE PLAN

SHEET NUMBER

A-1.1

1071520
L18-02181

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

E BONANZA ROAD

46'-9"

PROPOSED PEDESTAL TO CENTERLINE

1'-3"

— PROPOSED POWER ROUTE
INSIDE EXISTING CONDUIT
(DRAWN PER LV ARC GIS)

— EXISTING SIDEWALK (TYP)

— EXISTING
CURB (TYP)

— PROPOSED
METER PEDESTAL



— PROPOSED
CONCRETE CAP

EXISTING METER PEDESTAL
#401445 (TO BE REMOVED
PER CITY OF LAS VEGAS)



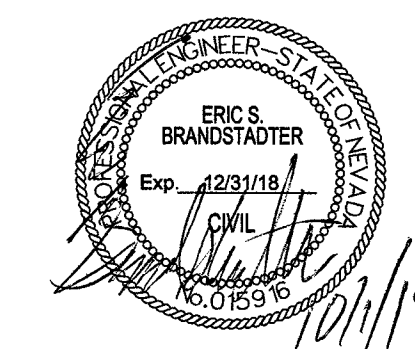
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SMALL CELL

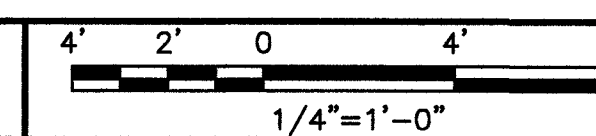
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ENLARGED METER
SITE PLAN

SHEET NUMBER

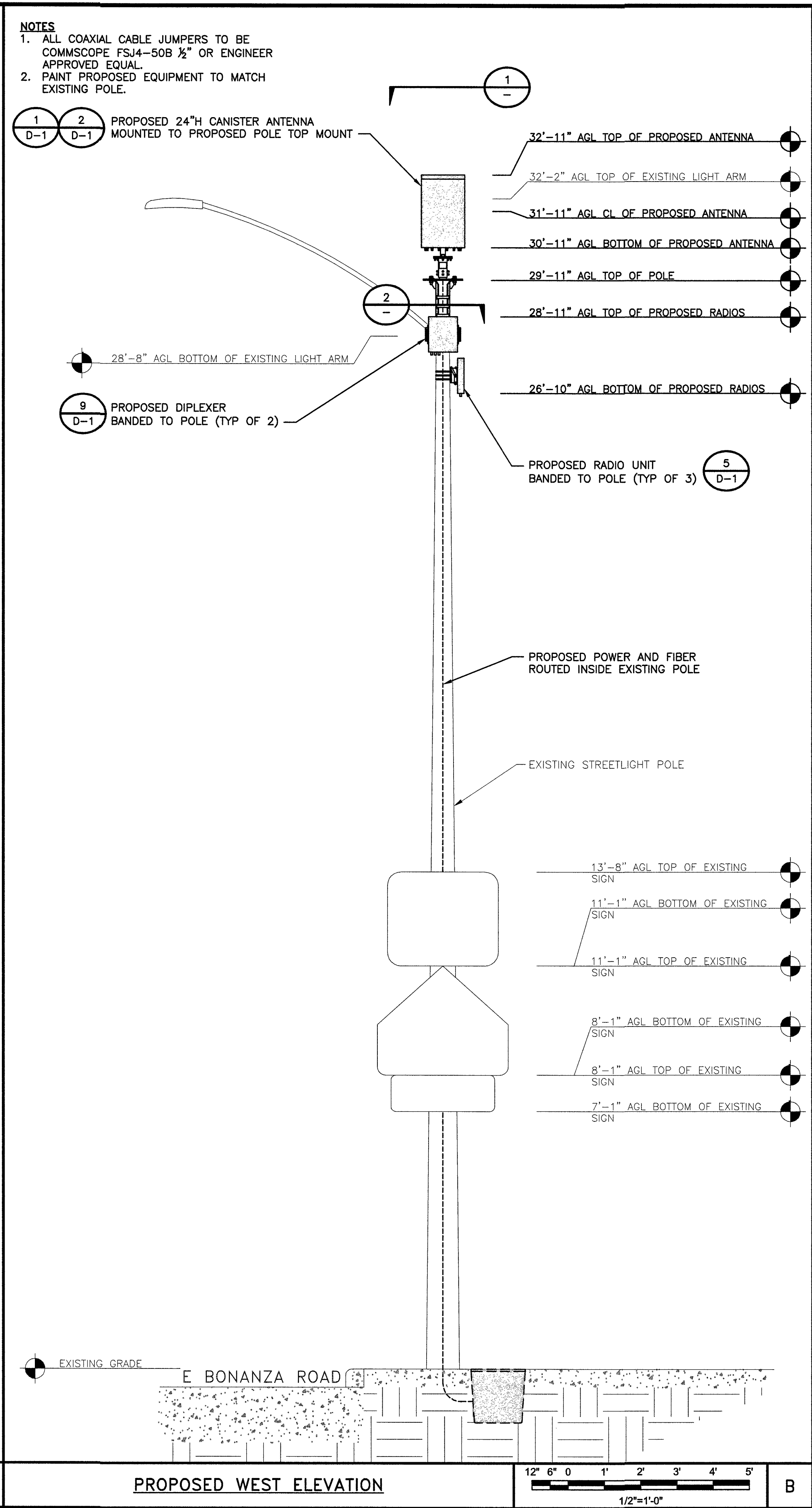
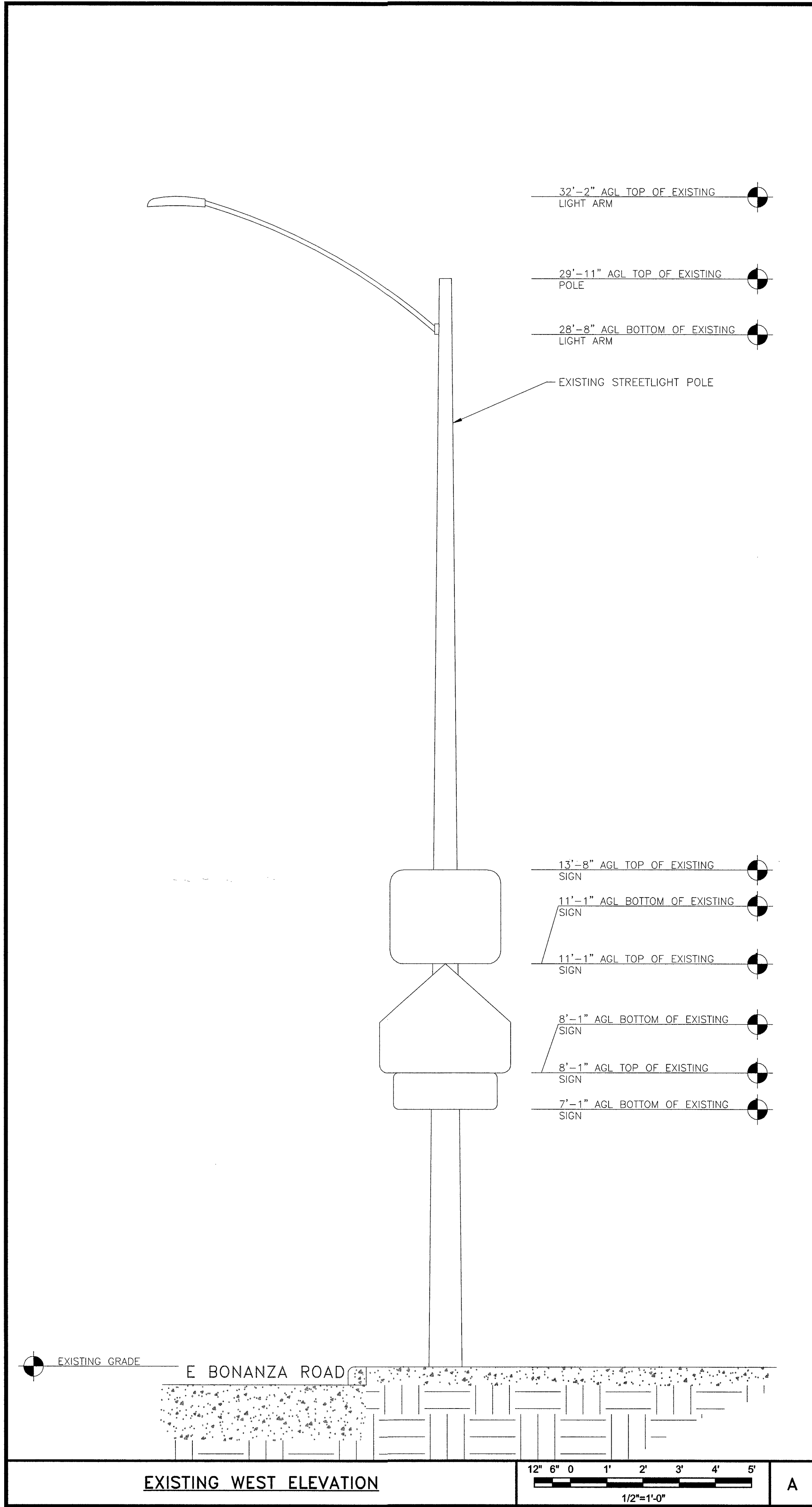
A-1.2

107V7520
L18-02181

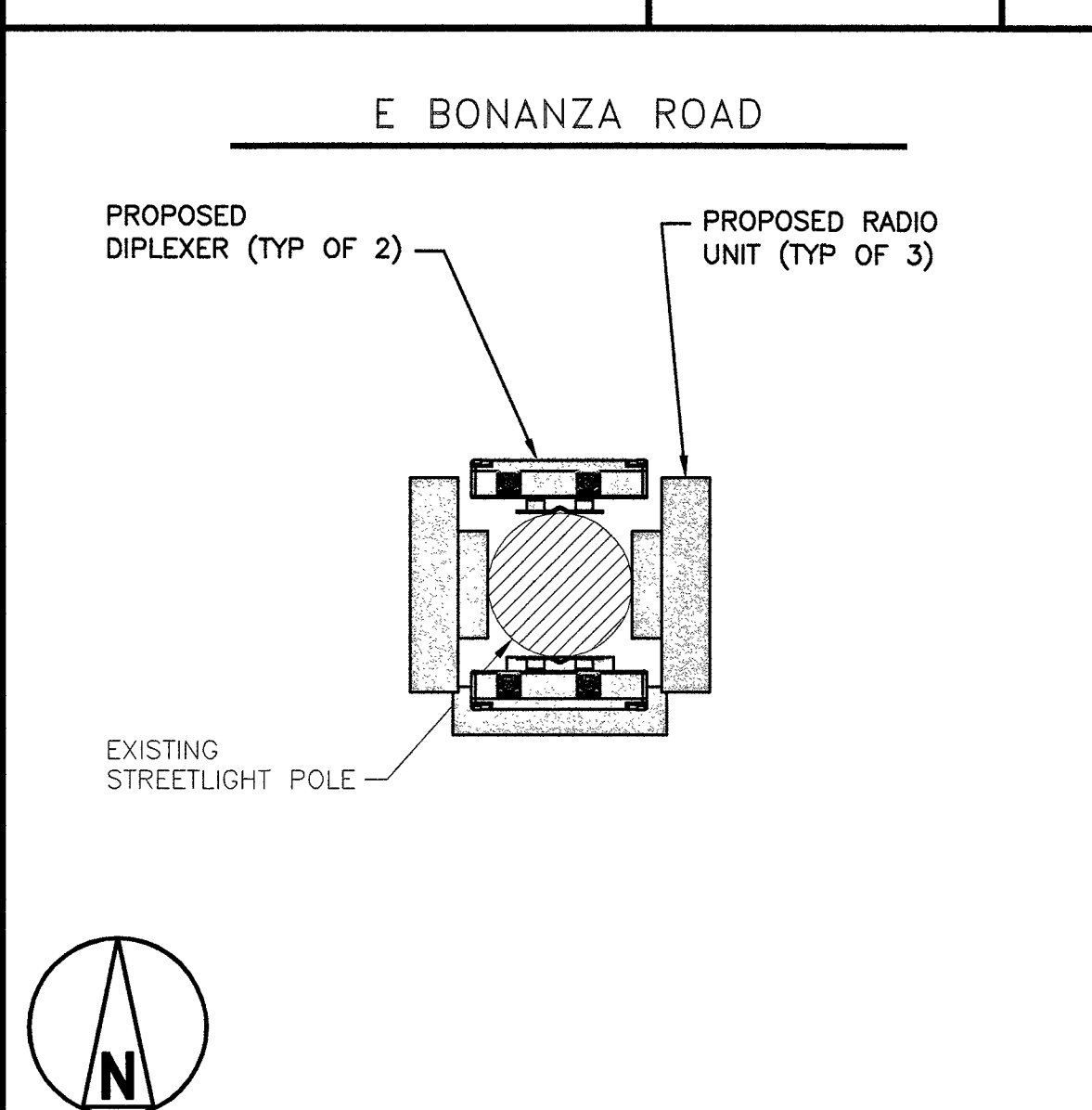
ENLARGED SITE PLAN



• • •



ANTENNA SPACE PLAN VIEW NO SCALE 1



RADIO SPACE PLAN VIEW NO SCALE 2



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2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

ELEVATIONS

SHEET NUMBER

A-2

ROSENBERGER CA-AEO10ITJTJVEX360F-JS06

DIAMETER:14.5"

HEIGHT:24"

TOTAL WEIGHT (WITHOUT MOUNT):22 lbs

CONNECTOR INTERFACE:(12) 4.3-10 FEMALE

RF CONNECTOR LOCATION:BOTTOM

ANTENNA SPECIFICATIONS

NO SCALE

1

CONCEALFAB 900109

DIMENSIONS HxW: 6.38"x7.00" (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

2

CONCEALFAB 900010

DIMENSIONS HxWxL: 17.375"x5.5"x13" (442x140x330 mm)

WEIGHT: 22 lbs (10 kg)

* DETAIL IS FOR GRAPHIC REPRESENTATION, CONTRACTOR MUST REFERENCE MANUFACTURERS DRAWINGS PRIOR TO CONSTRUCTION.

ASSEMBLY VIEW

FRONT VIEW

SIDE VIEW

SMALL DIAMETER POLE TOP 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

NOKIA AIRSCALE MICRO B25/B66A RRH

NO SCALE

4

NOKIA AIRSCALE B46 (LAA) RRH

DIMENSIONS, HxWxD: 11.6"x9.6"x1.6" (294.64x243.84x40.64mm)

WEIGHT: 11.7 lbs (5.31 kg)

INTERFACES: (1) CPRI SFP INCLUDED

ANTENNA CONFIGURATION: 2T2R

RF: NEX10 PLUS FEMALE

FRONT VIEW

SIDE VIEW

NOKIA AIRSCALE B46 (LAA) RRH

NO SCALE

5

NOT USED

NO SCALE

4

RADIO SPECIFICATIONS

NO SCALE

5

RADIO SPECIFICATIONS

NO SCALE

6

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.

PLAN VIEW

EXISTING BOLTED LIGHT POLE BASE DETAIL

NO SCALE

7

CONCRETE PULL BOX SPECIFICATIONS

NO SCALE

8

COMMSCOPE CBC1923T-4310 E11F13P06

FRONT VIEW

SIDE VIEW

COMMSCOPE CBC1923T-4310 E11F13P06

NO SCALE

9

COX

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PROJECT NO. 199064.2035

DRAWN BY MSC

CHECKED BY LEW

0 09/28/18 ISSUED FOR CONSTRUCTION

REV DATE DESCRIPTION

ERIC S. BRANDSTADTER
Exp. 12/31/18
P.E. 6015516

10/1/18

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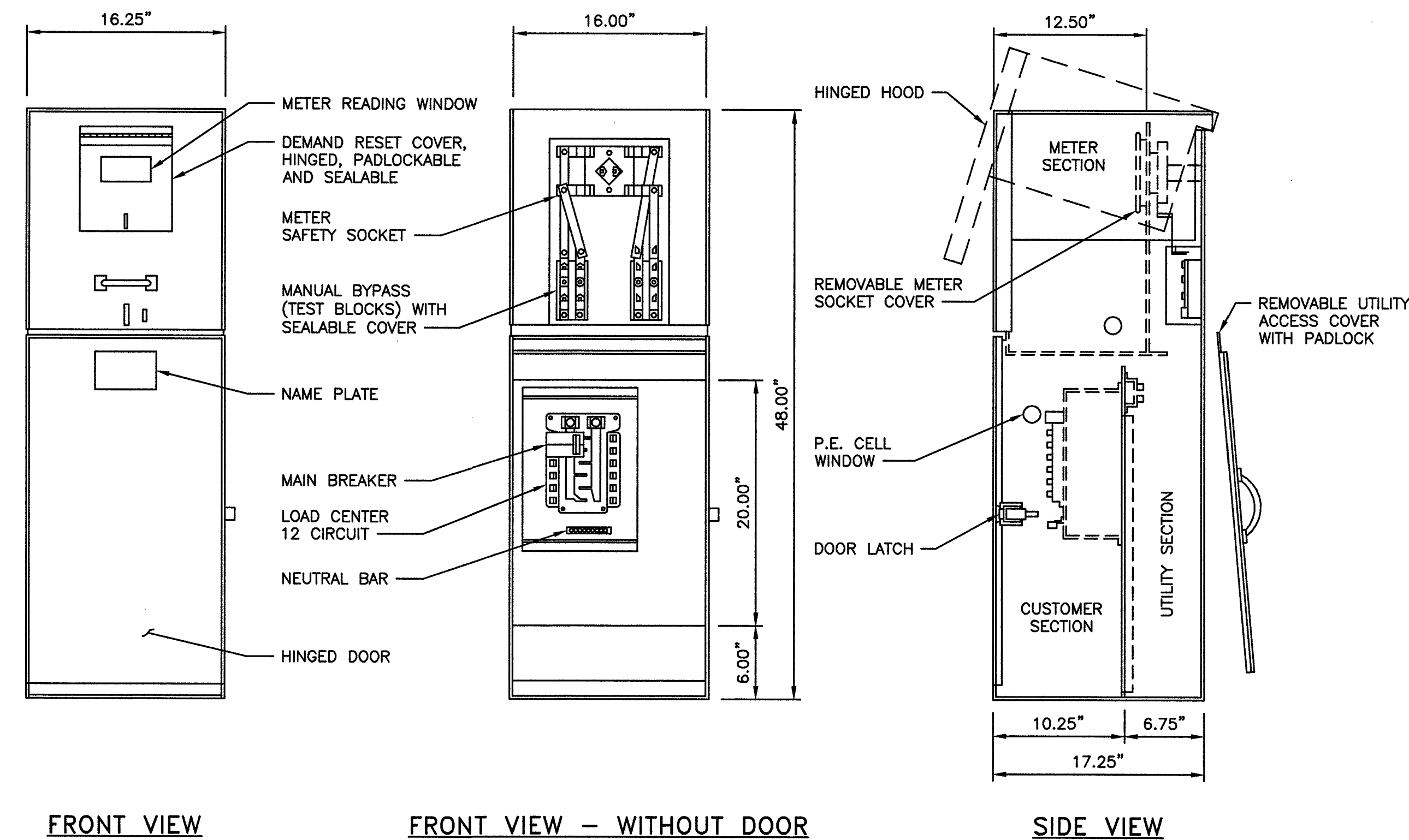
SITE ADDRESS
33AT0088SMC-A
CRAN_NVL08122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER
D-1

10707520
LVS-02191

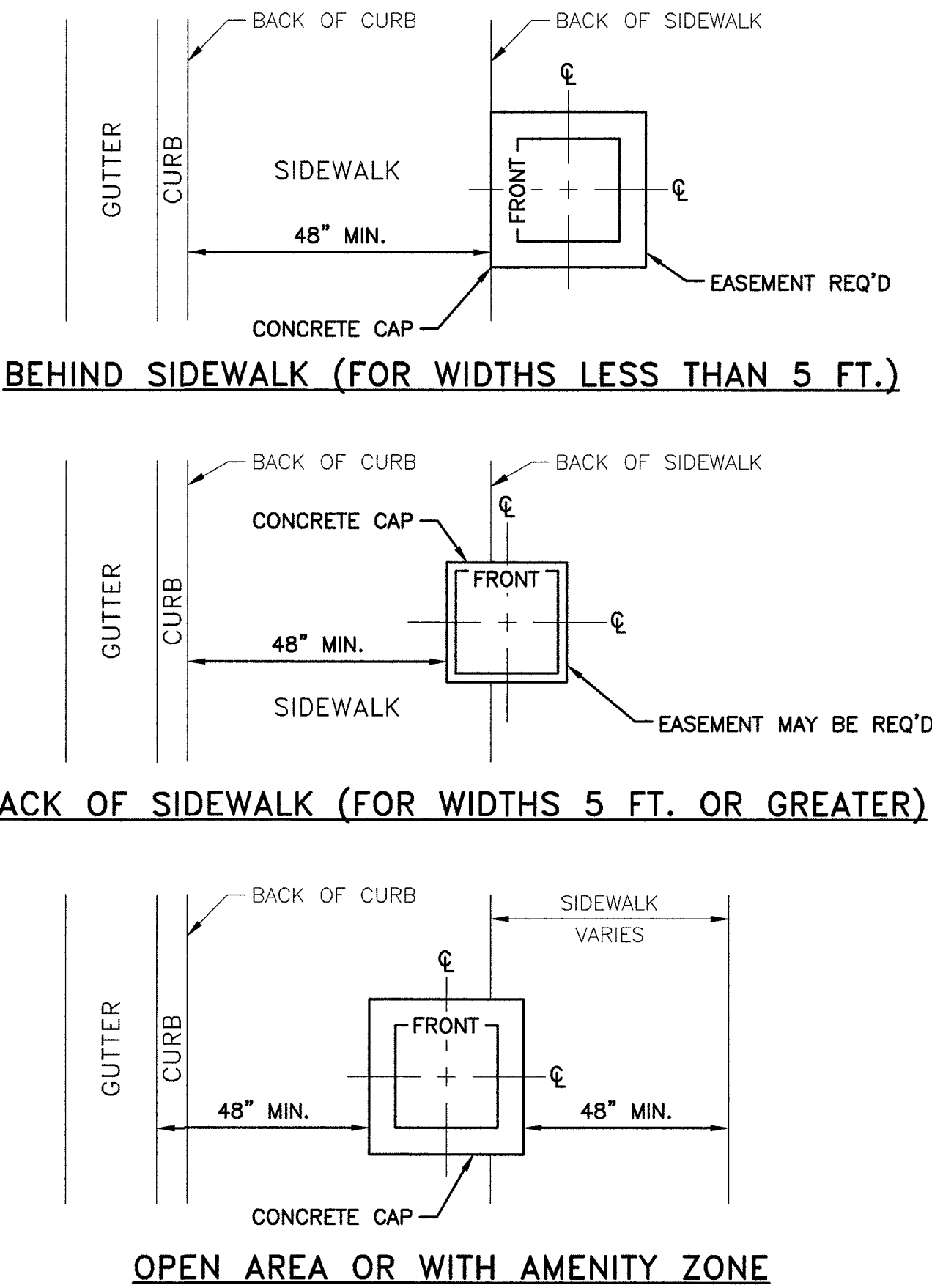
MYERS MEUG16-M200 CALTRANS TYPE III-BF



METER PEDESTAL DETAIL

NO SCALE

1



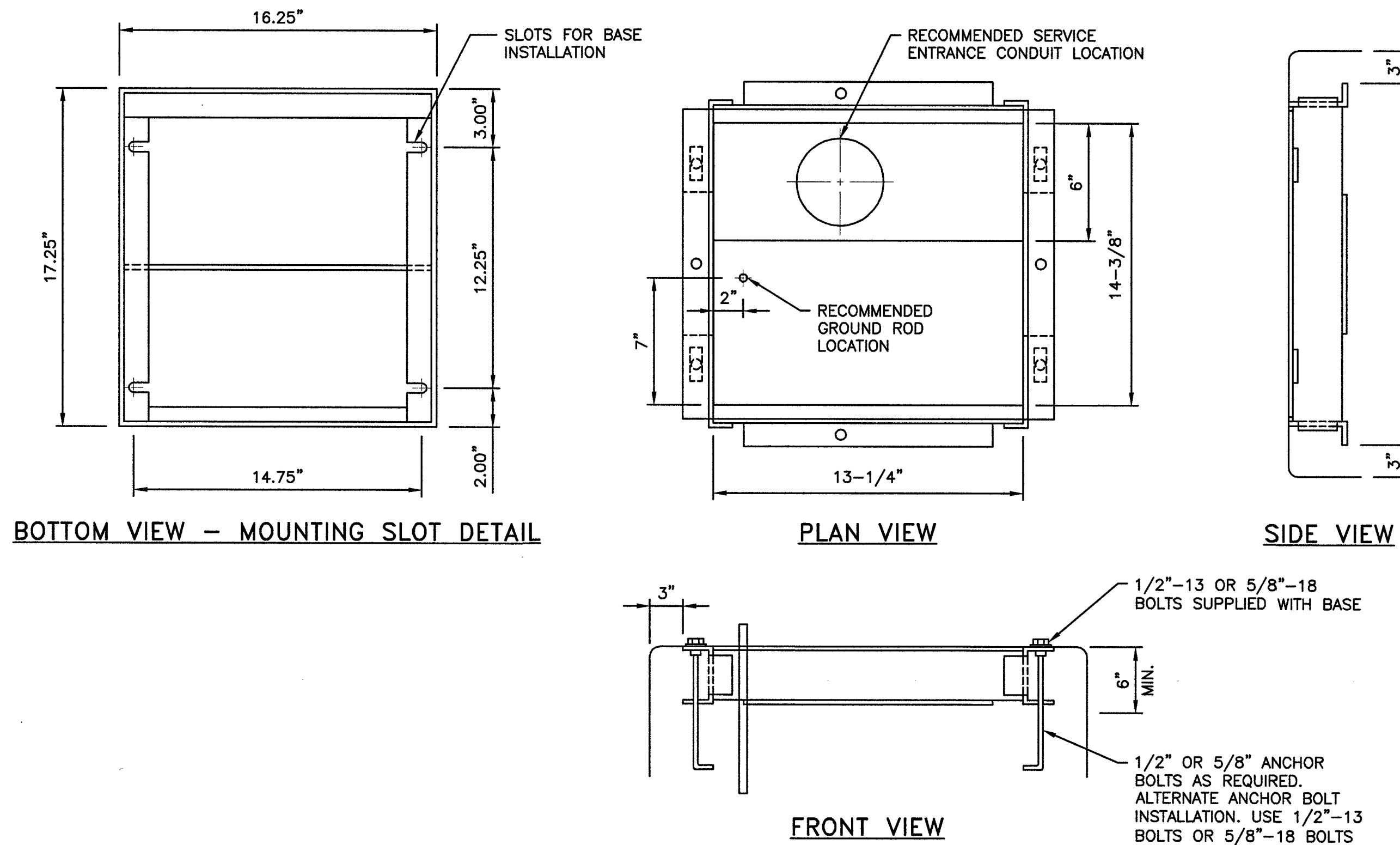
SERVICE PEDESTAL SETBACK DETAILS (USDCCA DRAWING #331)

NO SCALE

2

NOTES

1. MINIMUM CLEARANCE REQUIRED 36" PER NEC 110-16, TYPICAL FRONT AND BACK.
2. FOUNDATION DIMENSIONS AND DEPTH PER JOB SPECIFICATIONS.



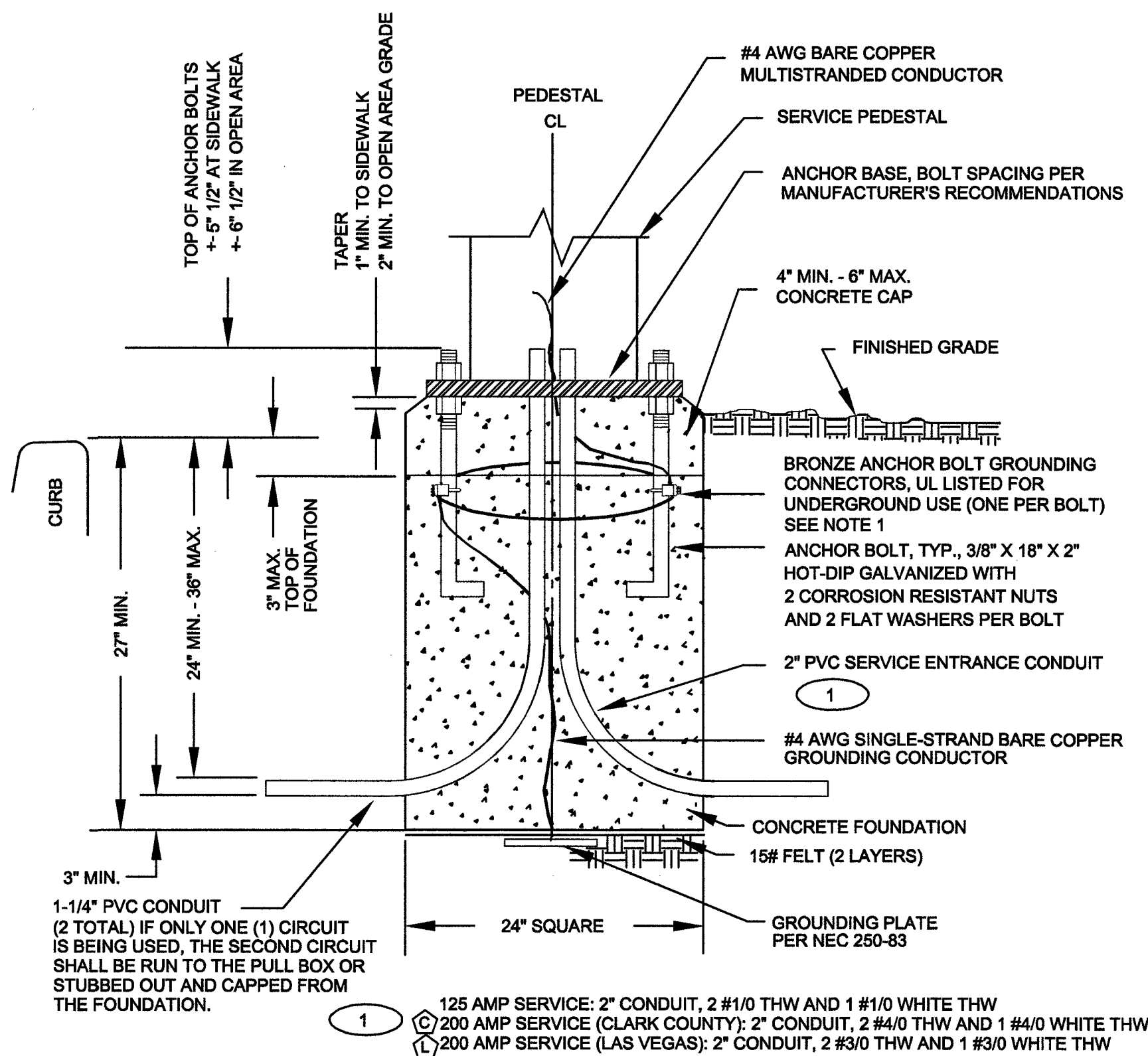
BASEPLATE DETAIL

NO SCALE

3

NOTES

1. BARE COPPER GROUNDING CONDUCTOR SHALL BE LOOPED AROUND ANCHOR BOLTS ONE TIME AND CONNECTED TO EACH ANCHOR BOLT BEFORE CONTINUING DOWN TO THE GROUNDING PLATE.
2. CABINET COVERS SHALL BE PARALLEL WITH CURB.
3. IN AREAS WHERE R/W PERMITS, THE CONCRETE BASE SHALL BE PLACED AT THE BACK EDGE OF THE SIDEWALK.
4. CABINET COVERS SHALL OPEN TOWARDS THE STREET WHEN CABINETS ARE LOCATED AT BACK OF WALK. CABINET COVERS SHALL OPEN PARALLEL TO THE SIDEWALK FACING THE DIRECTION OF TRAFFIC WHEN LOCATED WITHIN THE SIDEWALK.
5. WIRE SIZES ARE BASED ON UNDERGROUND FEED.
6. WIRE SIZES SHALL BE INCREASED FOR VOLTAGE DROP LIMITATION WHEN RUN IS LONG.



SERVICE PEDESTAL FOUNDATION DETAIL

NO SCALE

4

COX



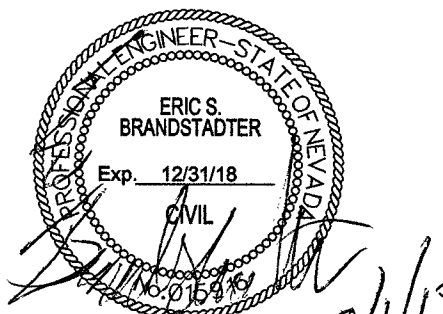
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REV	DATE	DESCRIPTION
0	09/28/18	ISSUED FOR CONSTRUCTION
1	10/11/18	REVISED



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SITE ADDRESS

33AT0088SMC-A
CRAN_NVL08122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

METER PEDESTAL
DETAILS

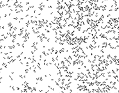
SHEET NUMBER

D-2

107V7520
LVB-02181

**CAUTION**

**STAY BACK 3 ft.**
TO PREVENT
RADIO FREQUENCY
EXPOSURES ABOVE FCC
LIMITS. CALL NCC
1-877-897-2475
TO POWER DOWN.
SITE ID: 33AT0088SMC-A

**NOTICE**

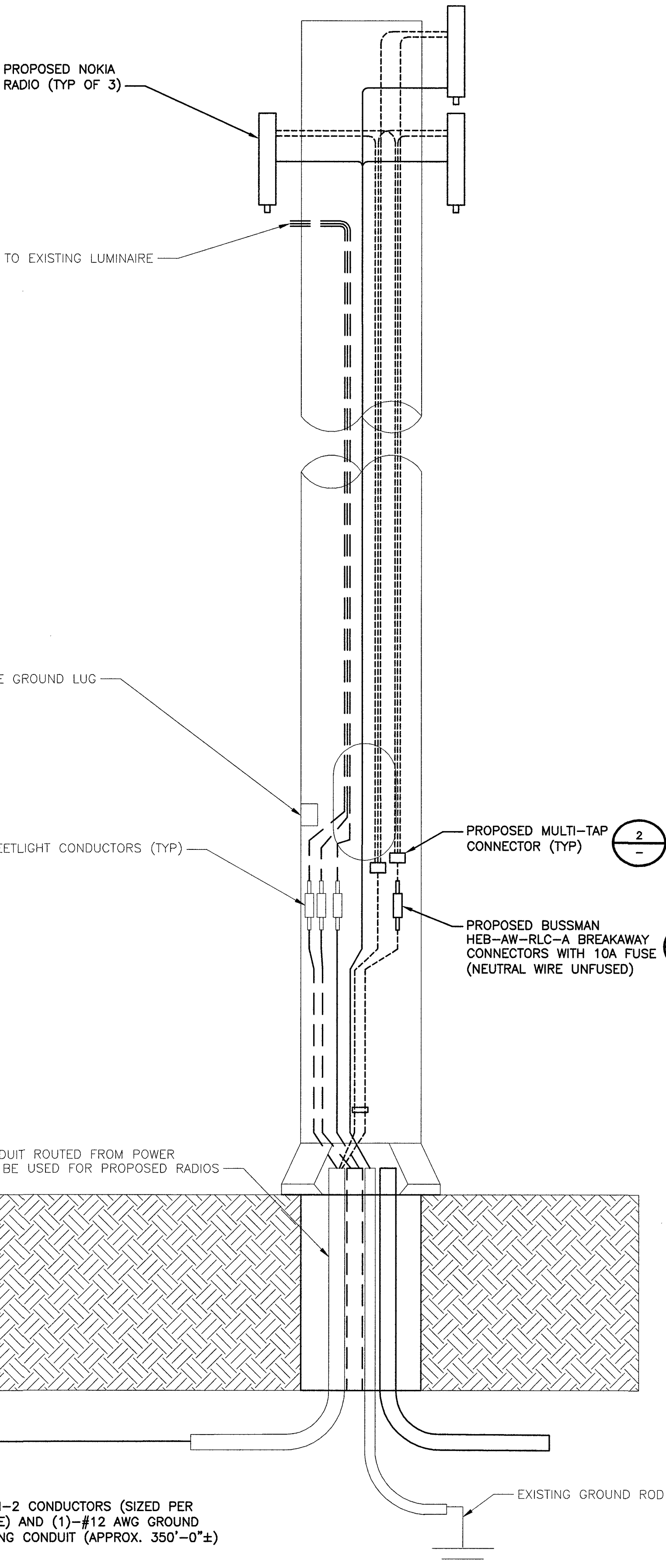
**SMALL CELL SHUT OFF SWITCH**
Push switch button turn off radio
while working within 3 ft. of the
device

Note: Once work is completed
turn switch back on

NOTES

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

120VAC FEEDER CONDUCTOR MAXIMUM DISTANCE			
#12 AWG	400'-0"	3% VOLT DROP @ 2.5A	
#10 AWG	675'-0"	3% VOLT DROP @ 2.5A	

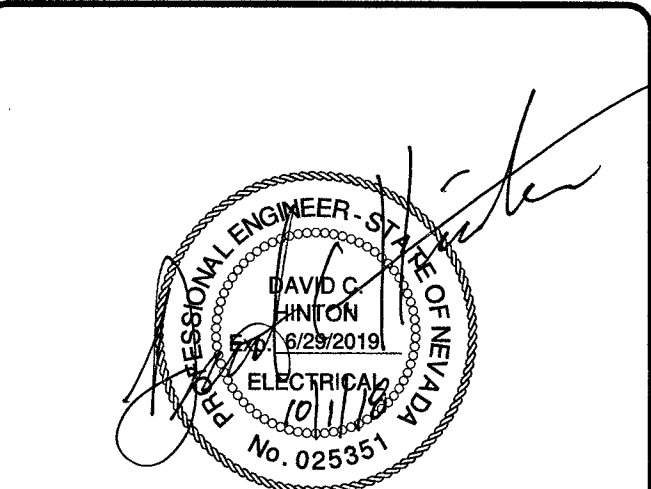


BLACK & VEATCH CORPORATION
7760 FRANCE AVENUE SOUTH
SUITE 1200
BLOOMINGTON, MN 55435

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PROJECT NO.	DRAWN BY	CHECKED BY
199064.2035	MSC	LEW

REV	DATE	DESCRIPTION
0	09/28/18	ISSUED FOR CONSTRUCTION
1		
2		
3		
4		
5		
6		
7		
8		
9		



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SITE ADDRESS
33AT0088SMC-A
CRAN_NVL08122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE
ELECTRICAL DETAILS
AND DIAGRAMS

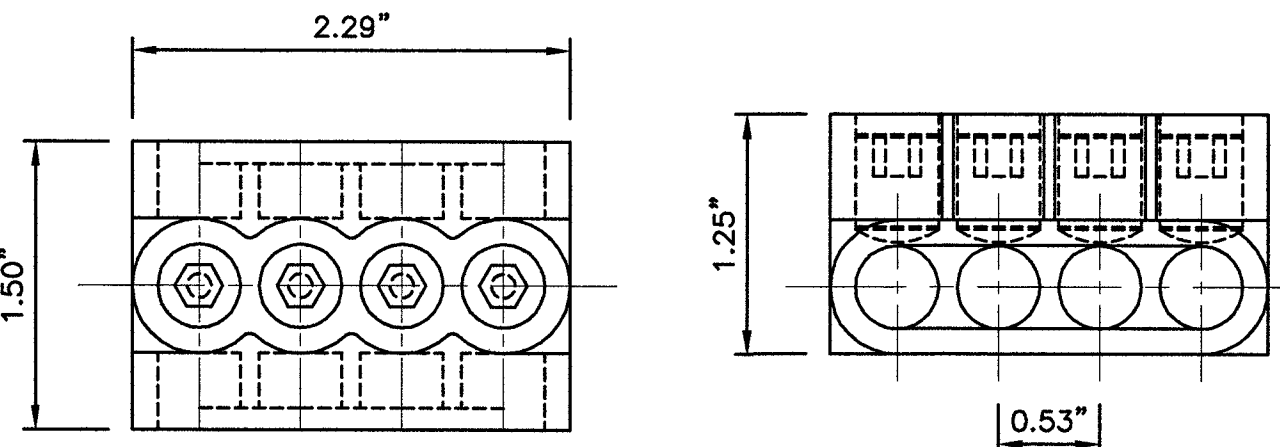
SHEET NUMBER
E-1

RF WARNING PLACARDS

NO SCALE

1

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



CONNECTOR DETAIL

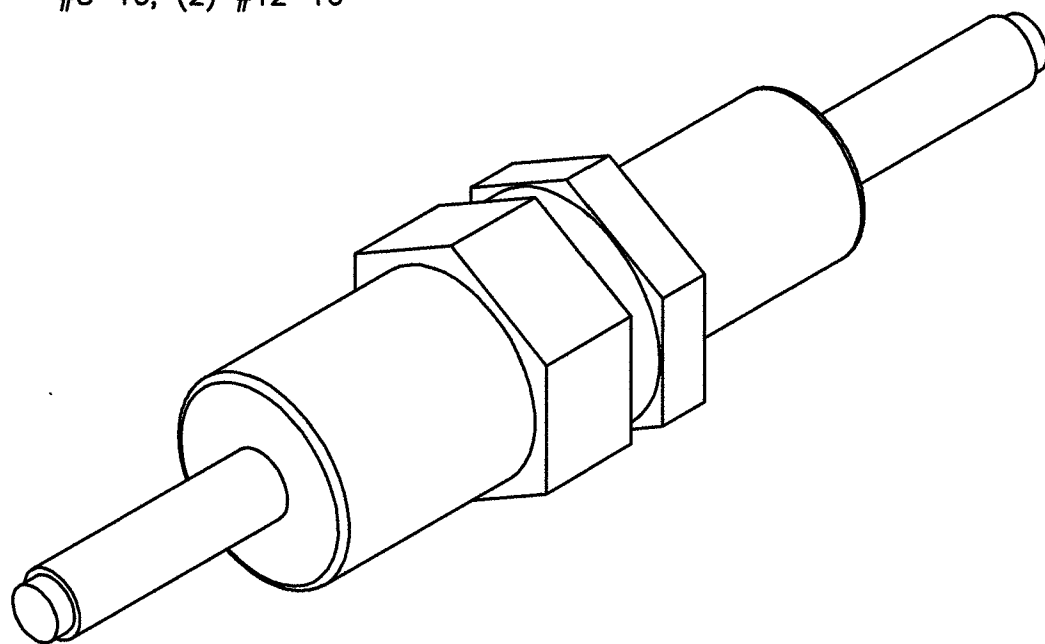
NO SCALE

2

BUSSMAN HEB-AW-RLC-A

DIMENSIONS, LENGTH: 4.4"

WIRE RANGE: #8-16; (2) #12-16



BREAKAWAY FUSE DETAIL

NO SCALE

3

TYPICAL POLE SITE TEMPLATE

NO SCALE

4

EXISTING ELECTRICAL LOAD STUDY

EXISTING LOAD.....38.40 AMPS
ALLOWED LOAD 80%.....48 AMPS

EXISTING UTILITY SOURCE OF POWER

EXISTING CONDUITS WITH CONDUCTORS

EXISTING 60 AMP METER PEDESTAL

EXISTING 2 CIRCUIT PANEL

PROPOSED ELECTRICAL LOAD STUDY

EXISTING LOAD.....38.40 AMPS
SAFETY FACTOR 125%.....48 AMPS
PROPOSED LOAD.....2.34 AMPS
TOTAL LOAD.....50.34 AMPS
ALLOWED LOAD 80% OF 200 AMPS.....160 AMPS

EXISTING UTILITY SOURCE OF POWER

EXISTING CONDUITS WITH CONDUCTORS
(VERIFY WITH NEVADA POWER THAT EXISTING CONDUIT AND CONDUCTORS CAN SUPPORT NEW WATTAGE)

PROPOSED 200 AMP METER-MEUG16-M200
(SEE SHEET D-2)

PROPOSED 12 CIRCUIT PANEL WITH (3) NEW 20 AMP SINGLE POLE BREAKERS FOR WIRELESS CARRIERS
TOTAL NEW LOAD 50.34 AMPS

EXISTING SINGLE LINE DIAGRAM

NO SCALE

1

PROPOSED SINGLE LINE DIAGRAM

NO SCALE

2

Site Name:

2388 E BONANZA ROAD

SITE NUMBER:

33AT0088SMC-A

VOLTAGE:

240 /120

Volts AC

MAIN BREAKER:

200 AMPS

MOUNT:

SURFACE

ENCLOSURE TYPE:

NEMA 3R

PANEL STATUS:

PROPOSED

MODEL NUMBER:

MEUG16-M200

PHASE:

1

WIRE:

3

BUSS RATING:

200

AMPS

CKT	LOAD DESCRIPTION	BREAKER 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	MAINS	200	2	NEW	0	1.00	1.00	563		1.25	1.00	450	NEW	1	20	PROPOSED COX SMALL CELL	2
3					0	1.00	1.00		0	1.00	1.00	0	OFF	1	20	TELECOM (FUTURE)	4
5	STREET LIGHT	60	1	ON	4608	1.00	1.25	5760		1.00	1.00	0	OFF	1	20	TELECOM (FUTURE)	6
7					4608	1.00	1.25		5760								8
9								0									10
11									0								12
								PHASE A	PHASE B								
								6323	5760	VA							
								TOTAL		KVA	12.08						
										AMPS	50.34						
												≤ 80% OF MAIN BREAKER					

PROPOSED PANEL SCHEDULE AND CALCS

NO SCALE

3

COX

BLACK & VEATCH

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BLOOMINGTON, MN 55435

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PROJECT NO.

199064.2035

DRAWN BY

MSC

CHECKED BY

LEW

0

09/28/18

ISSUED FOR CONSTRUCTION

REV

DATE

DESCRIPTION

PROFESSIONAL ENGINEER - STATE OF NEVADA
DAVID C. HANSON
EXP. 12/28/2019
ELECTRICAL
No. 025351

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SITE ADDRESS

33AT0088SMC-A
CRAN_NVL08122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

ELECTRICAL SINGLE
LINE DIAGRAMS

SHEET NUMBER

E-2

107V1520
L18-02181

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.



NO SCALE

1

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



NO SCALE

2

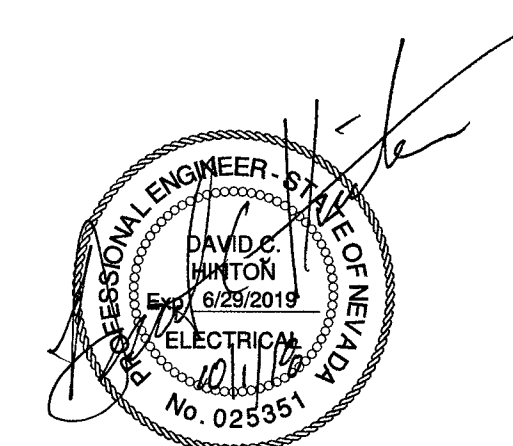


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0	09/28/18	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION



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SITE ADDRESS

33AT0088SMC-A
CRAN_NVLO8122F_R01
2388.25 E BONANZA ROAD
LAS VEGAS, NV 89101
SMALL CELL

SHEET TITLE

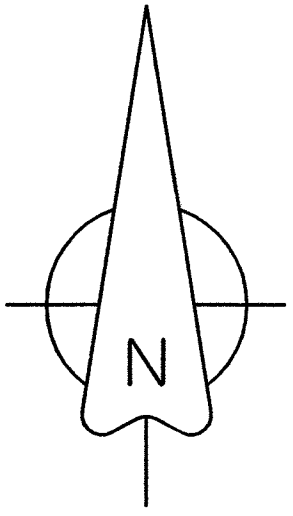
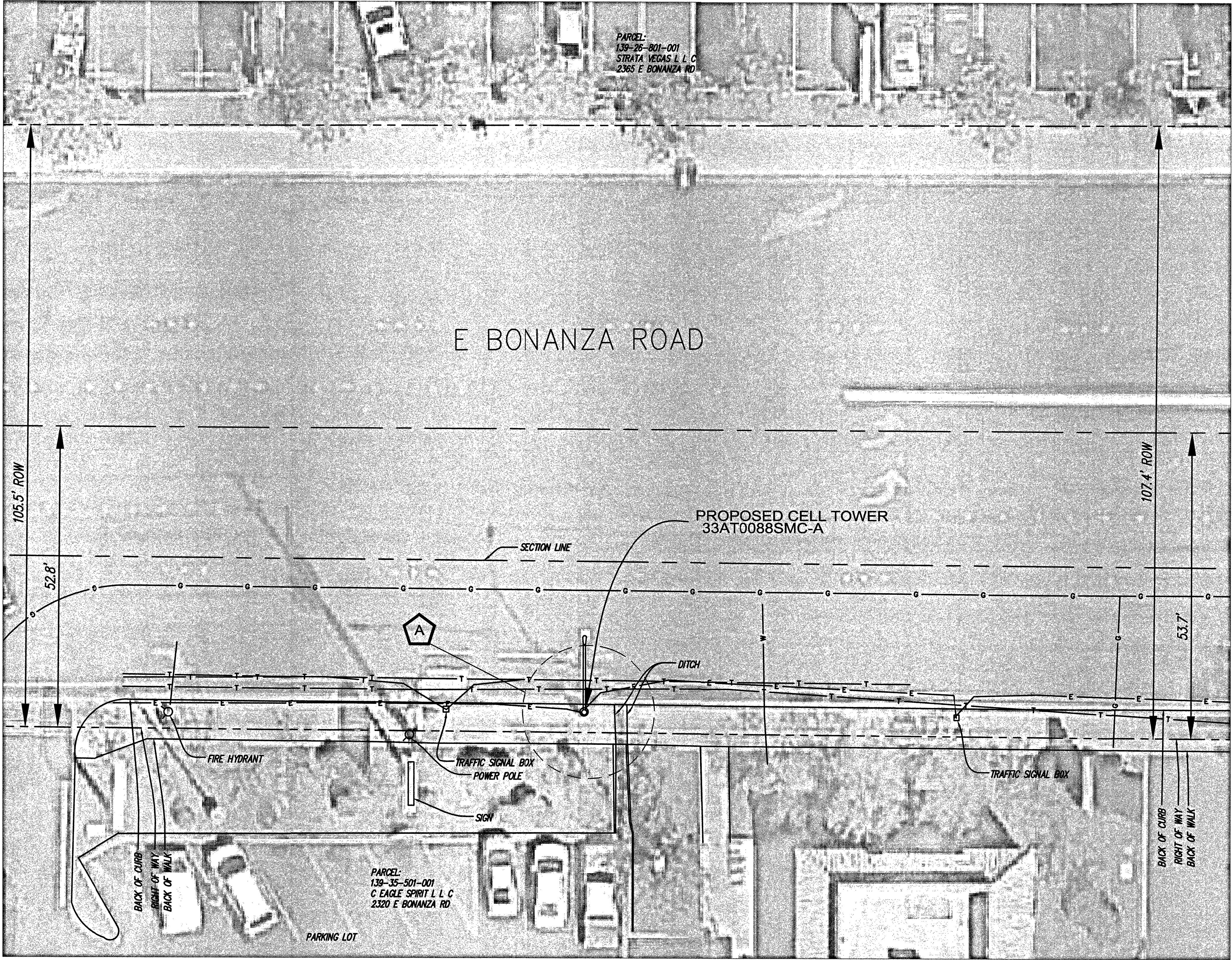
GROUNDING DIAGRAMS

SHEET NUMBER

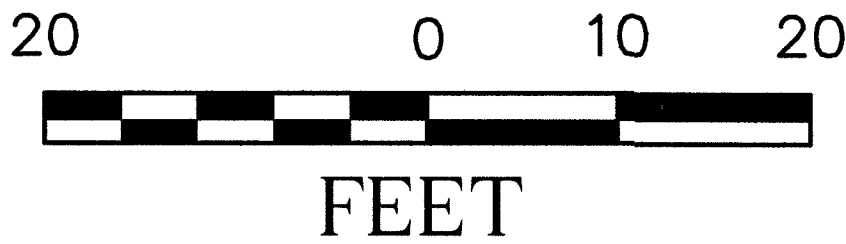
G-1

107V7520
L18-02181

SMALL CELL SITE SURVEY
SITE: 33AT0088SMC-A
NE¼NE¼, SECTION 35, TOWNSHIP 20 SOUTH, RANGE 61 EAST



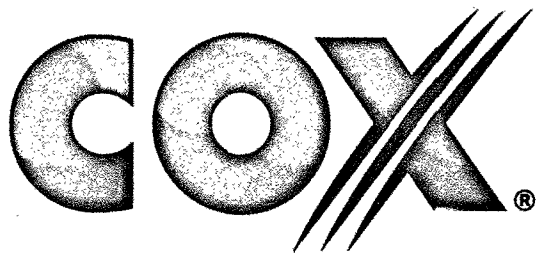
GRAPHIC SCALE



A LATITUDE: 36°10'25.79"N
LONGITUDE: 115°07'02.77"W
GROUND ELEVATION: 1,838.83'
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



6205-B Peachtree Dunwoody Road NE
Atlanta, GA 30328

ENGINEERS:



BLACK & VEATCH

6 SUNSET WAY
SUITE B108
HENDERSON, NV 89014

SITE NO: 33AT0088SMC-A

DRAWN BY: KJC

CHECKED BY: CIS

REV	DATE	DESCRIPTION
A	8/22/18	PRELIMINARY SUBMITTAL

SURVEYOR:



CIS JOB NO:
CIS 315-2-1-38

SHEET TITLE
**SMALL CELL
SITE SURVEY**

SHEET NUMBER
1 OF 1

107V7520
L18-02181



CITY OF LAS VEGAS

TRAFFIC ENGINEERING
FIELD OPERATIONS
3001 RONEMUS DRIVE
LAS VEGAS, NV 89128
PHONE: (702) 229-6331

SMALL CELL SITE SURVEY

- 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

CONTRACTOR'S NAME: Black & Veatch WIRELESS USE AGREEMENT _____
WIRELESS SERVICE PROVIDER: AT&T CONTACT NAME: _____
OFFICE: _____ MOBILE: _____ FAX: _____
POLE LOCATION & ID: 2365 E. Bonanza Rd SL # 17308
CIRCLE ONE: NEW POLE ☐ EXISTING POLE ☒

PROPOSED SERVICE INFORMATION

Service Location	2300 Bonanza Rd.		ID#401445	
Existing Meter #	CC029041746			
Existing Service Size	☒ 60 Amp	☐ 100 Amp	☐ 125 Amp	☐ 200 Amp
Street Light Circuit				
Service Type	☐ Pedestal		☒ Pole Mount	
Current Application	☐ Traffic Signal	☒ St. Lighting	☐ Both	
Existing Load			Amps	
Field Tested By:			Date:	05/16/2018
Additional Notes: Not suitable for use to serve small cell site without upgrade.				

CLV REPRESENTATIVE

- TO BE COMPLETED BY TEFO STAFF

CLV FIELD REVIEWER'S NAME: _____ FIELD REVIEW DATE: _____
SENIOR/SUPERVISOR REVIEW SIGNATURE: [Signature] 5/24/18 DATE REVIEWED BY SENIOR TECH: _____

BACKUP DOCUMENTATION

- DRAWINGS, PHOTOS, ETC

FILE NAME: _____ CREATION DATE: _____
FILE NAME: _____ CREATION DATE: _____
FILE NAME: _____ CREATION DATE: _____
Service Size _____ CREATION DATE: _____

NV POWER SERVICE ADDRESS
LOAD BAY DOCUMENTATION FOR SPACE UTILIZATION