

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. R.O.W.
MEASUREMENTS ARE APPROXIMATIONS.



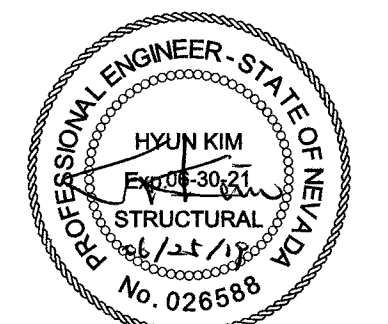
AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO:	129084.1486
DRAWN BY:	TPG
CHECKED BY:	GAC

REV	DATE	DESCRIPTION
2	05/23/2019	ISSUED FOR CONSTRUCTION
1	04/30/2019	ISSUED FOR CONSTRUCTION
0	04/08/2019	ISSUED FOR CONSTRUCTION



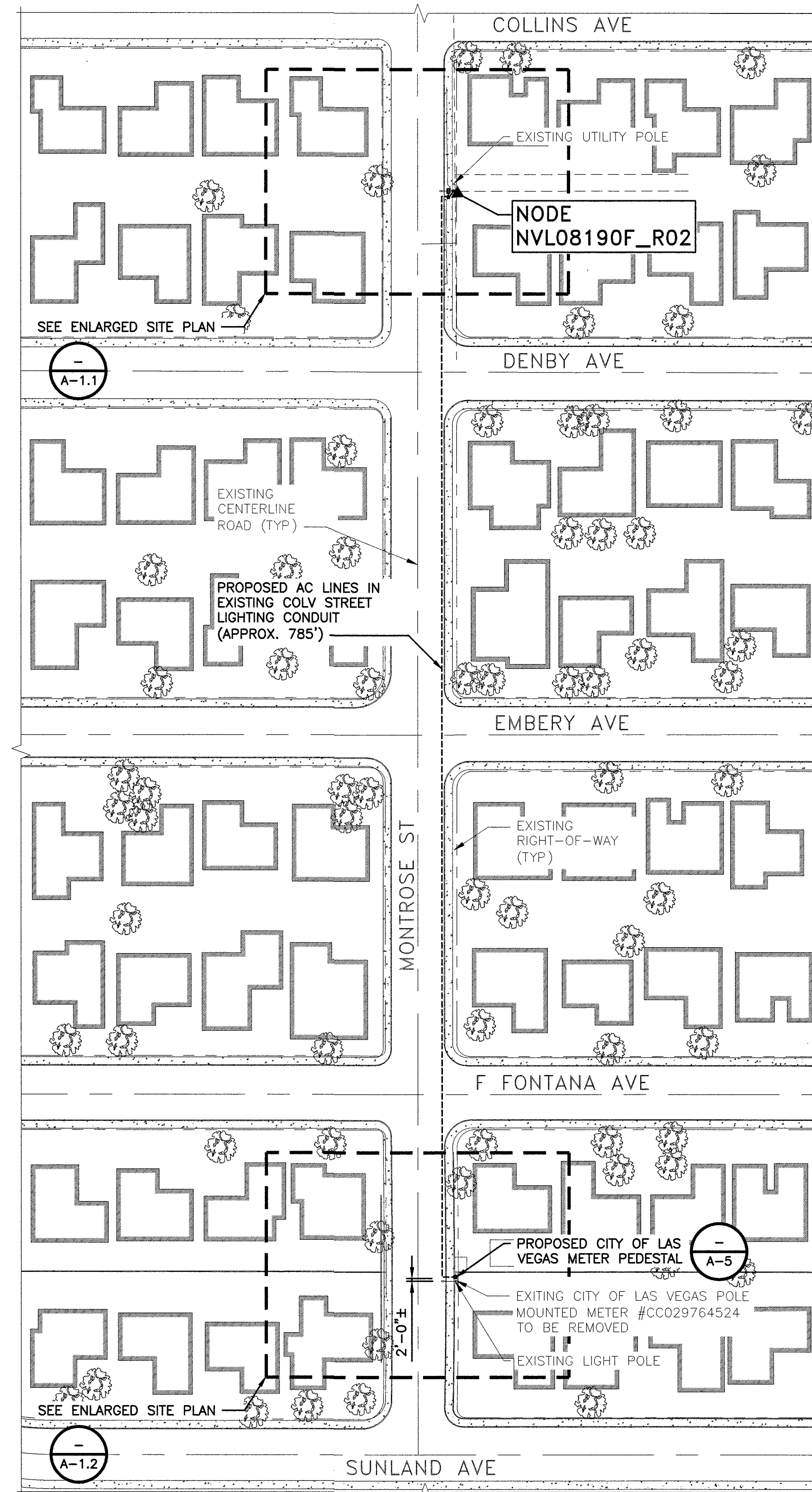
IT IS A VIOLATION OF LAW FOR ANY PERSON,
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NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

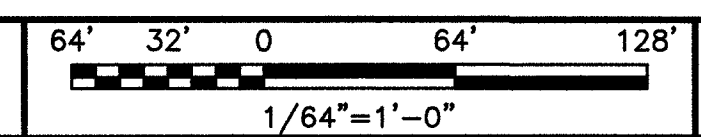
SHEET TITLE
EXPANDED SITE PLAN AND
UTILITY ROUTE

SHEET NUMBER

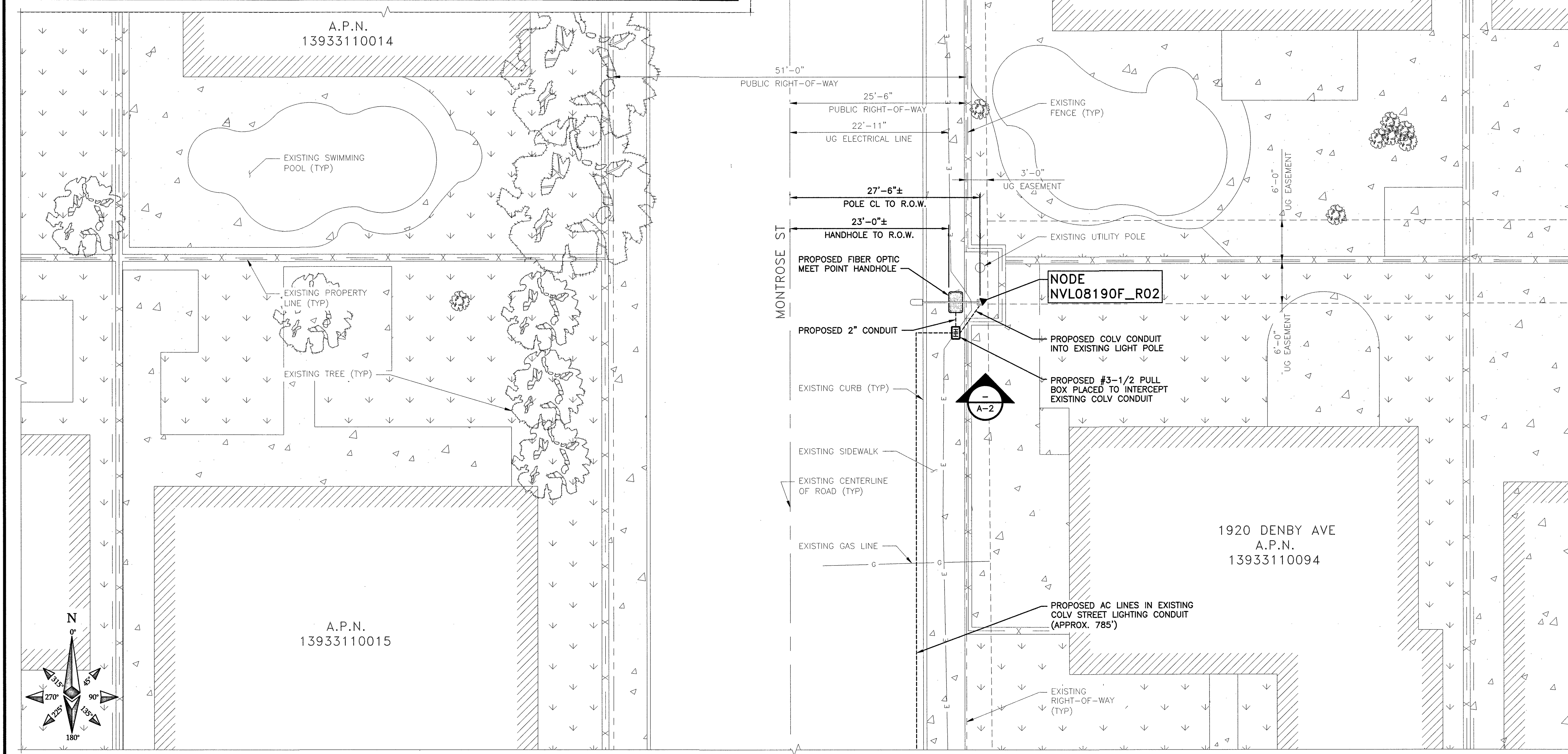
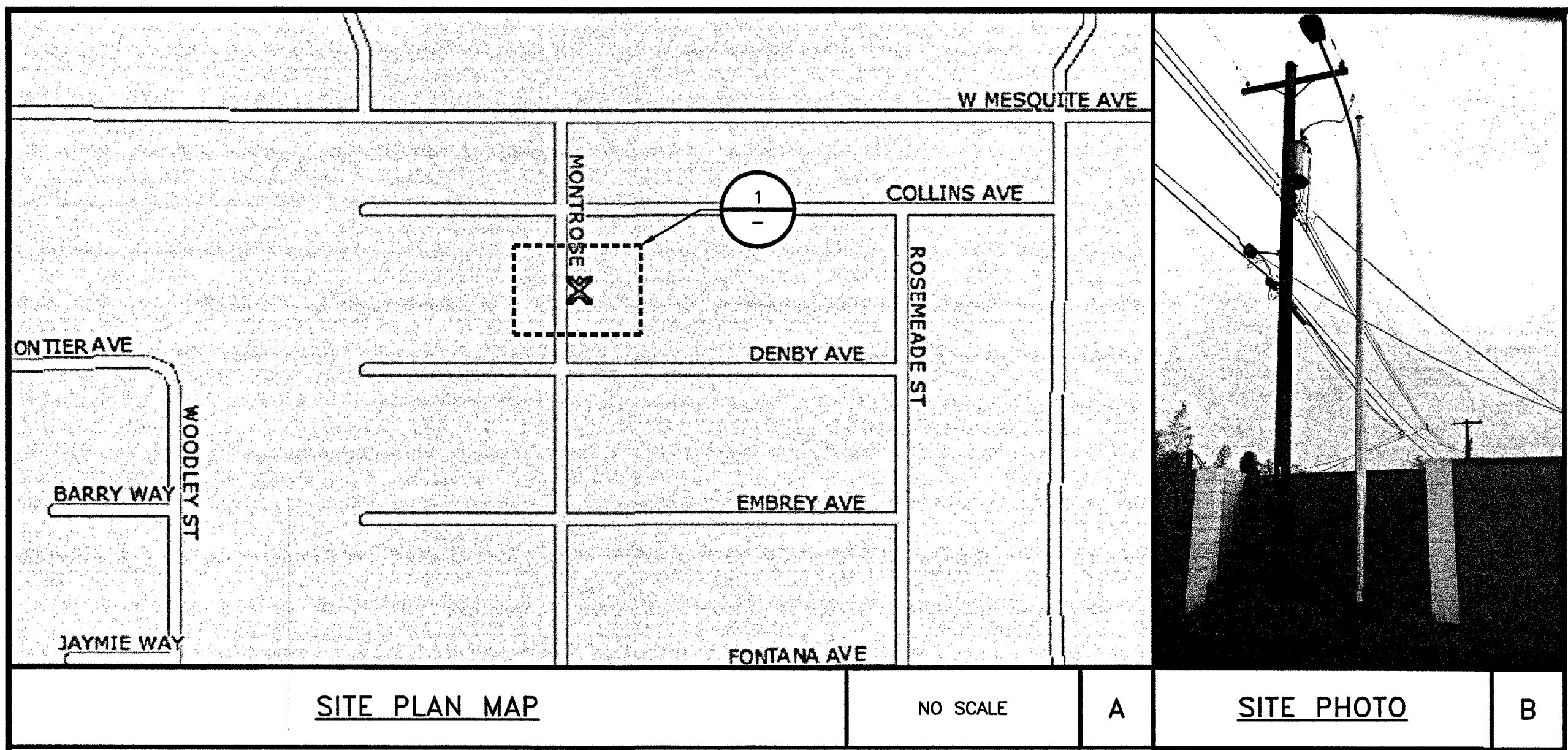
A-1



EXPANDED SITE PLAN AND UTILITY ROUTE



A



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 LAS VEGAS, NV 89135

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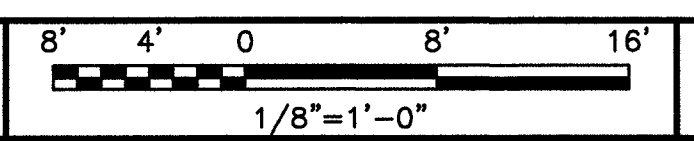
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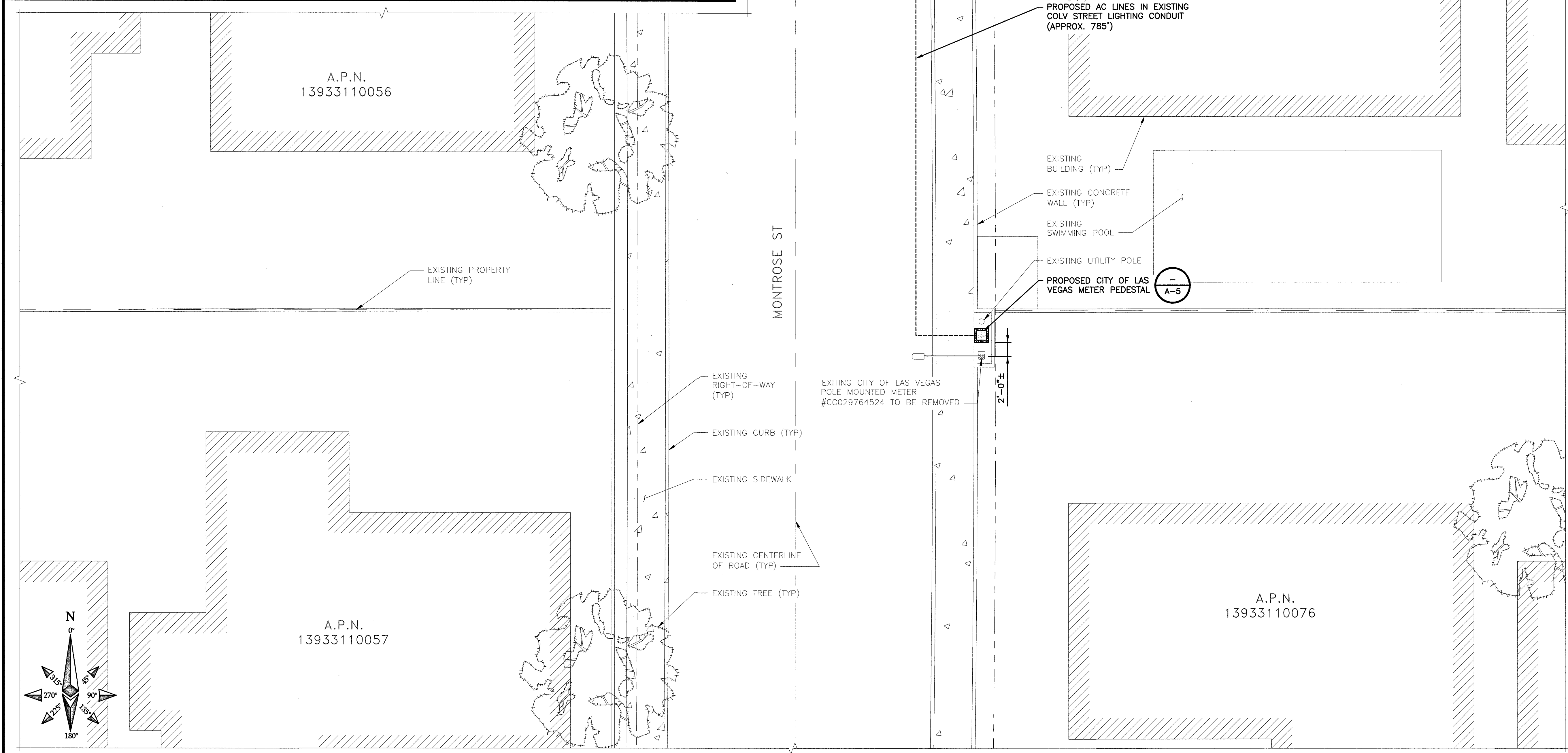
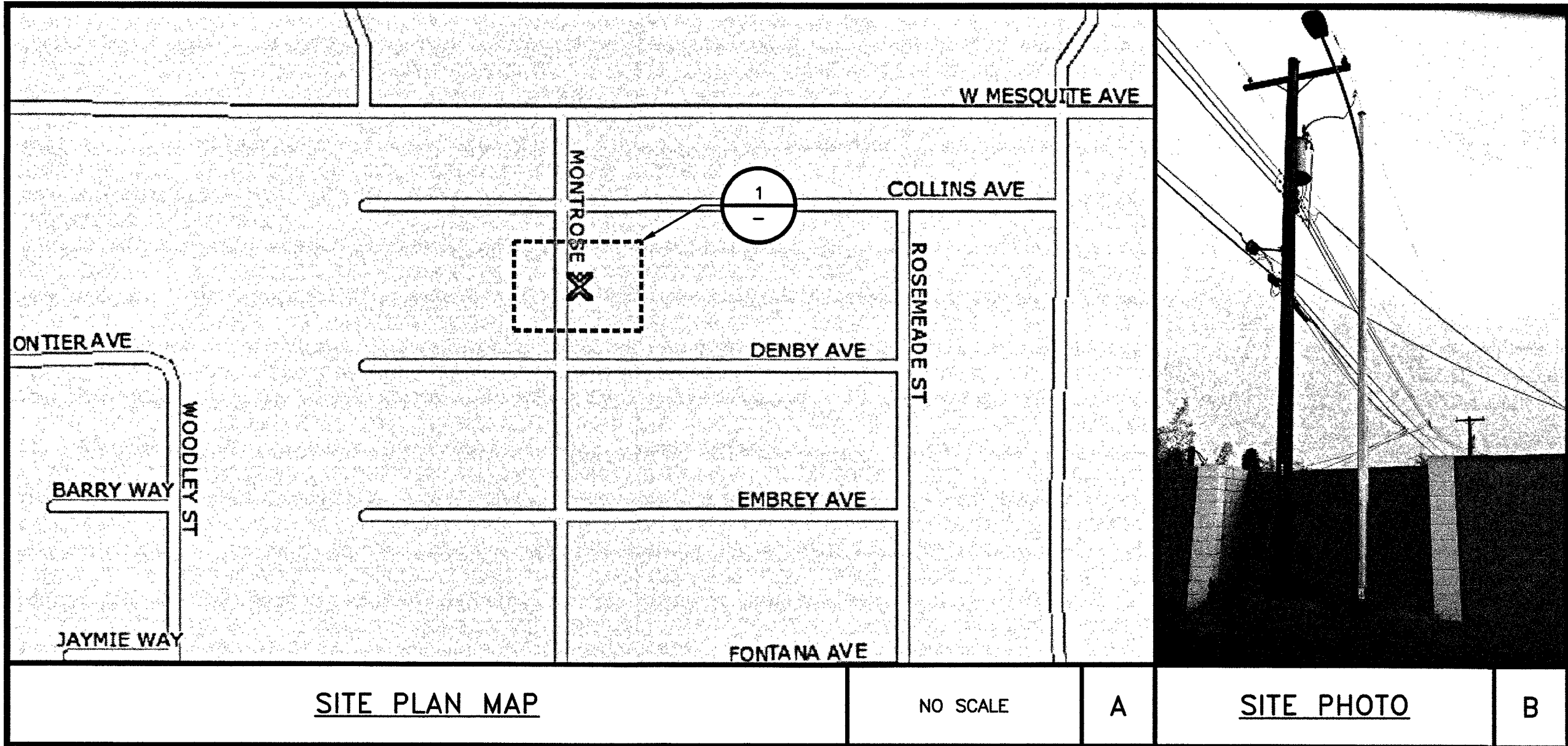
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NVLO8190F_R02
 ADJACENT TO
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 LAS VEGAS, NV 89106
 PICO SMALL CELL

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER
A-1.1 3





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SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

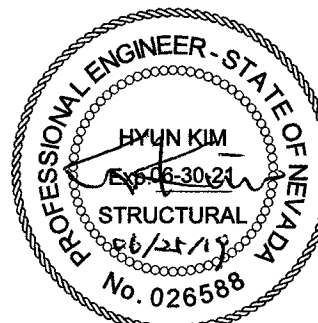
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

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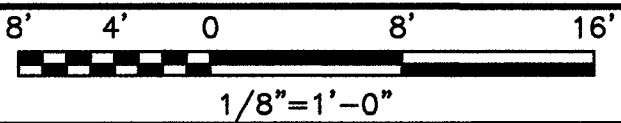
NVLO8190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER

A-1.2

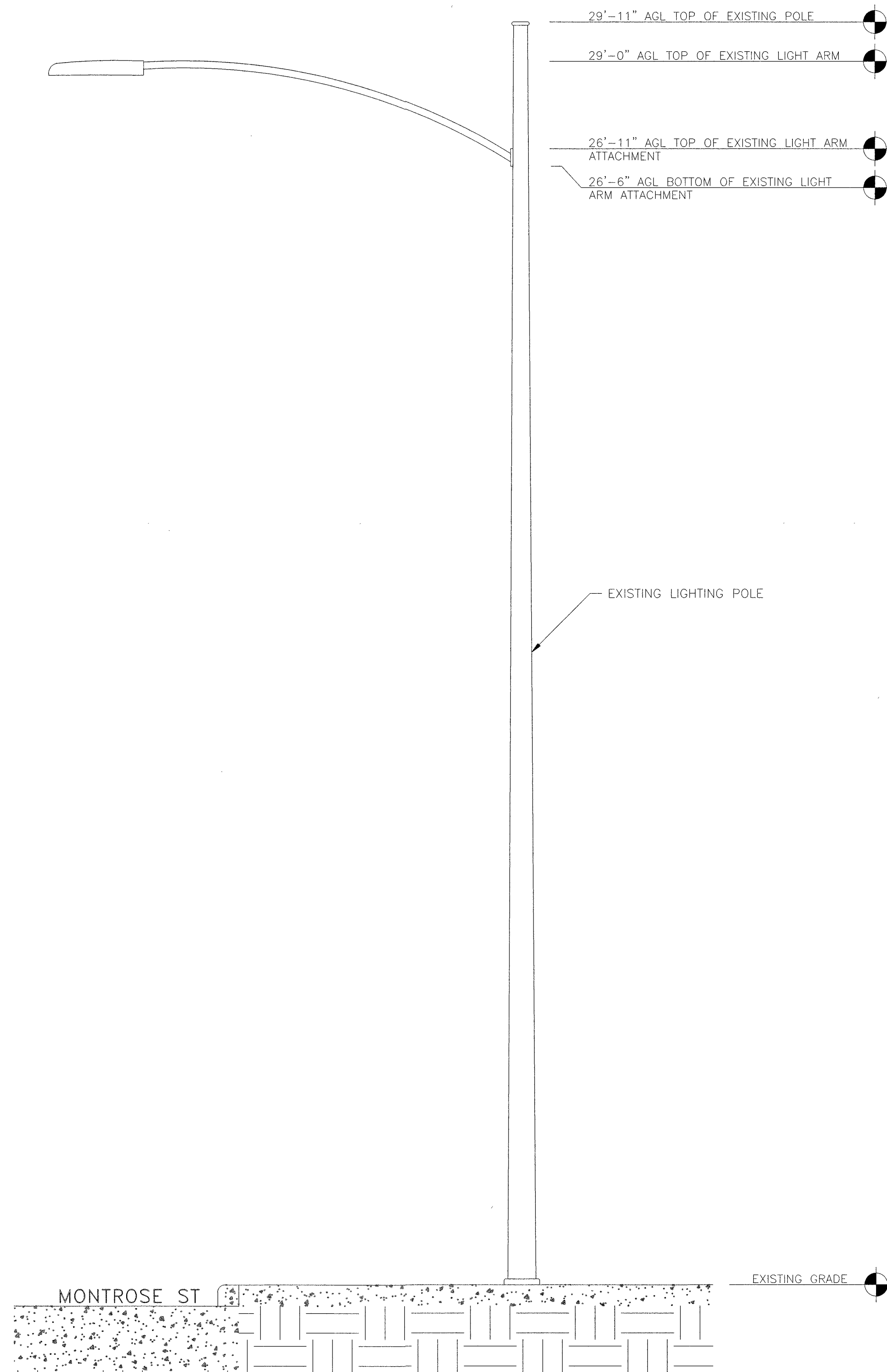
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A

NOTE

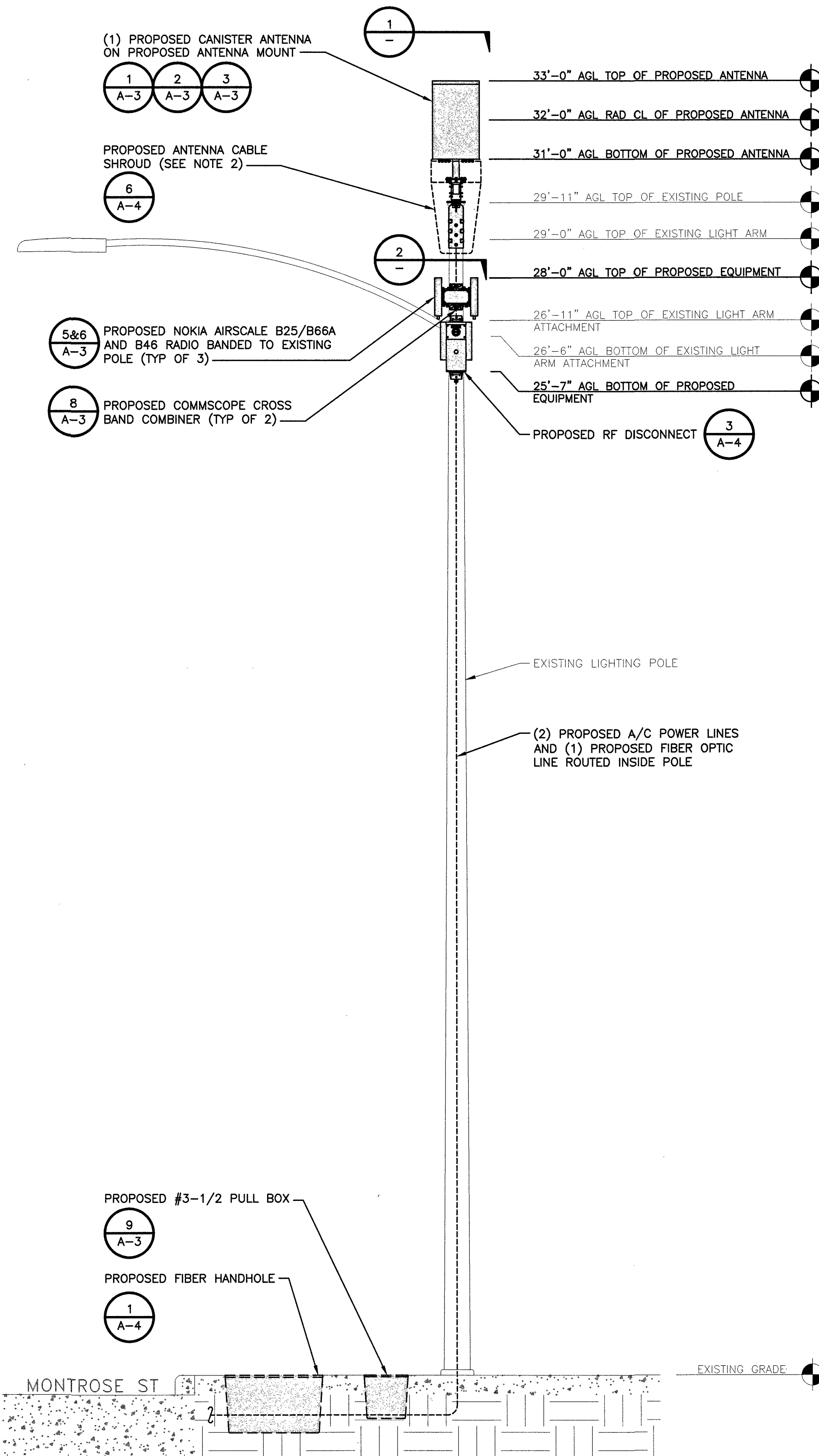
THESE DRAWINGS HAVE BEEN CREATED BASED ON STRUCTURAL CALCULATIONS PERFORMED BY BLACK & VEATCH CONFIRMING THAT THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED LOADING.



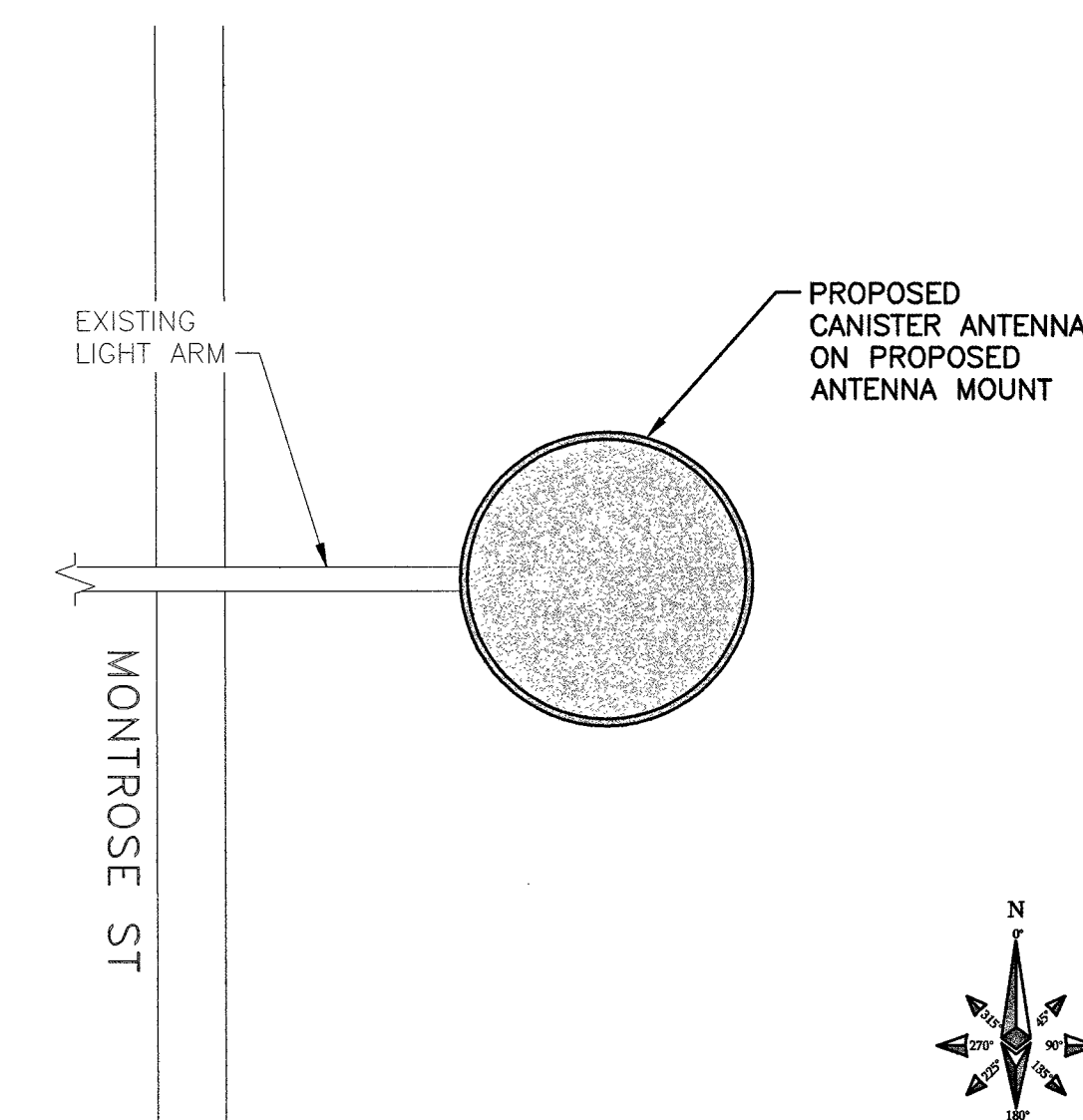
EXISTING SOUTH ELEVATION

NOTE

1. REFER TO THE RFDS FOR THIS NODE FOR THE AZIMUTH INFORMATION.
2. CABLE SHROUD NOT ENTIRELY SHOWN FOR CLARITY.
3. ALL EQUIPMENT TO BE PAINTED TO MATCH EXISTING STRUCTURE.
4. ALL POLE PENETRATION TO BE SEALED AGAINST WATER AND INSECT INTRUSION.



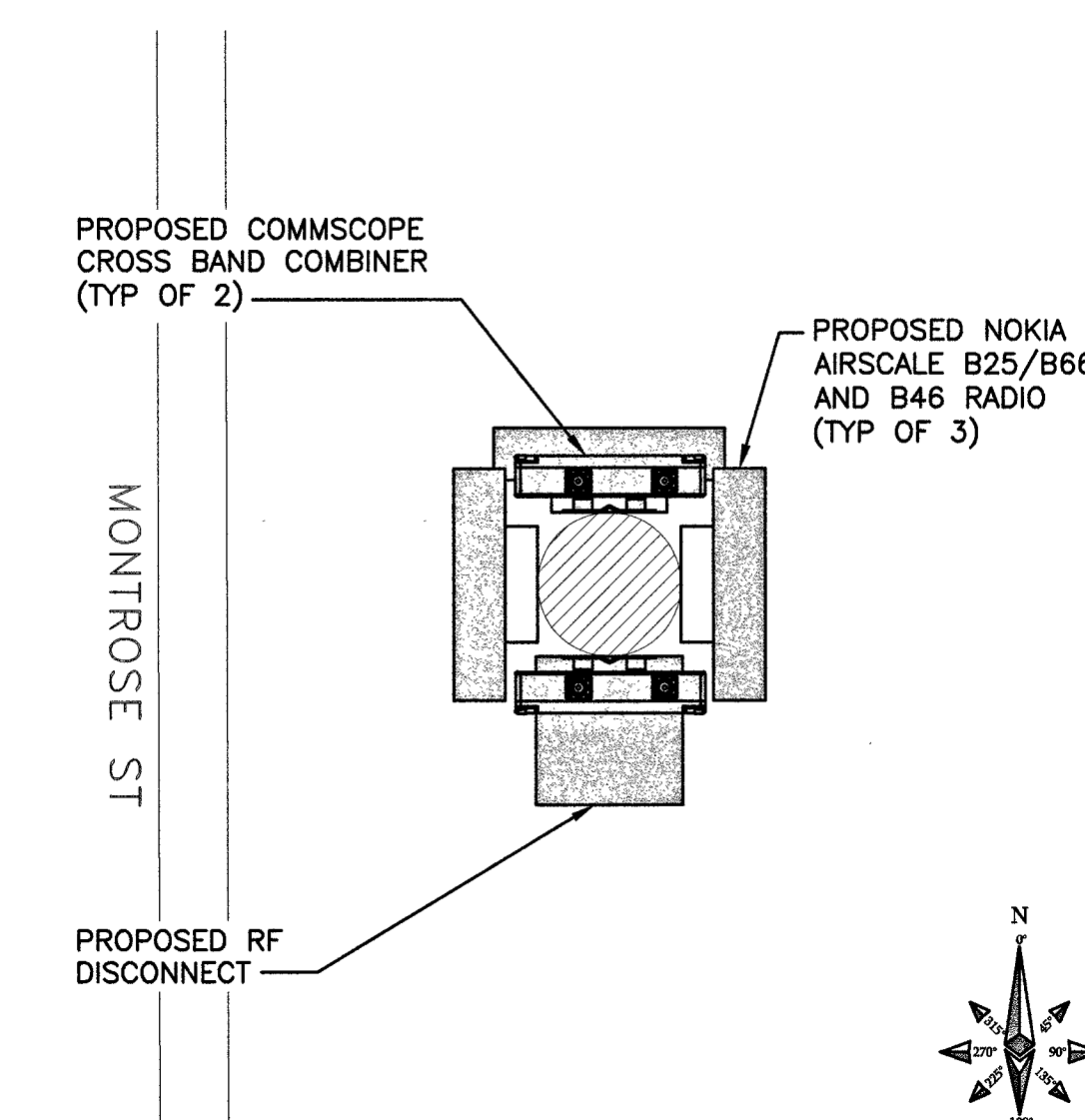
PROPOSED SOUTH ELEVATION



ANTENNA PLAN VIEW

NO SCALE

1



RADIO PLAN VIEW

NO SCALE

2

NOT USED

NO SCALE

3



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

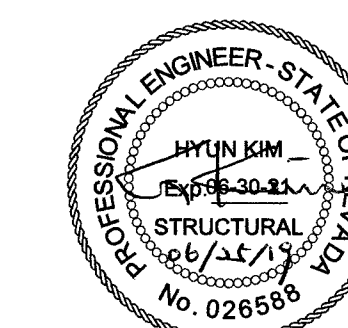
BLACK & VEATCH CORPORATION
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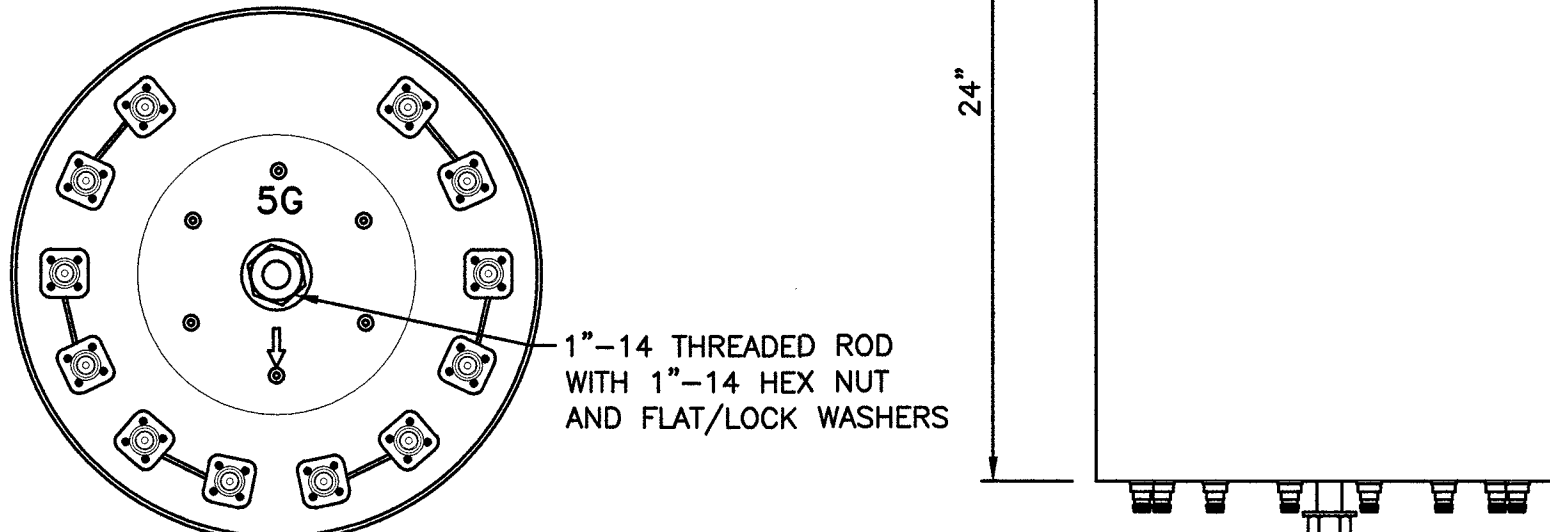
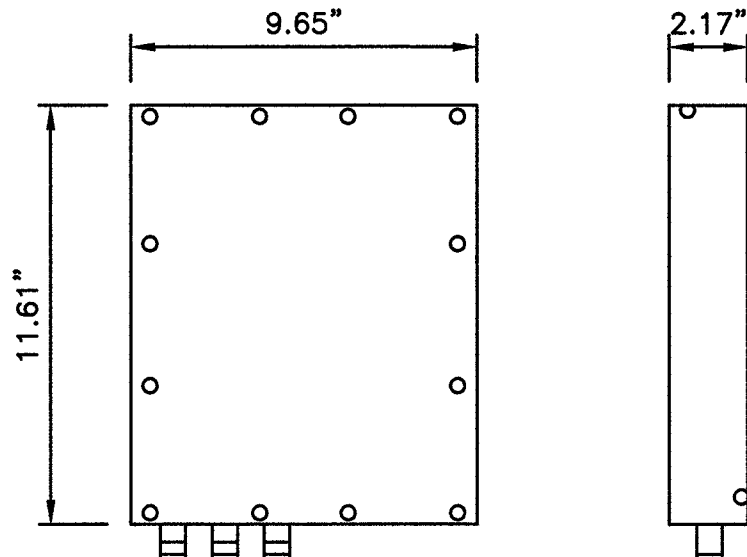
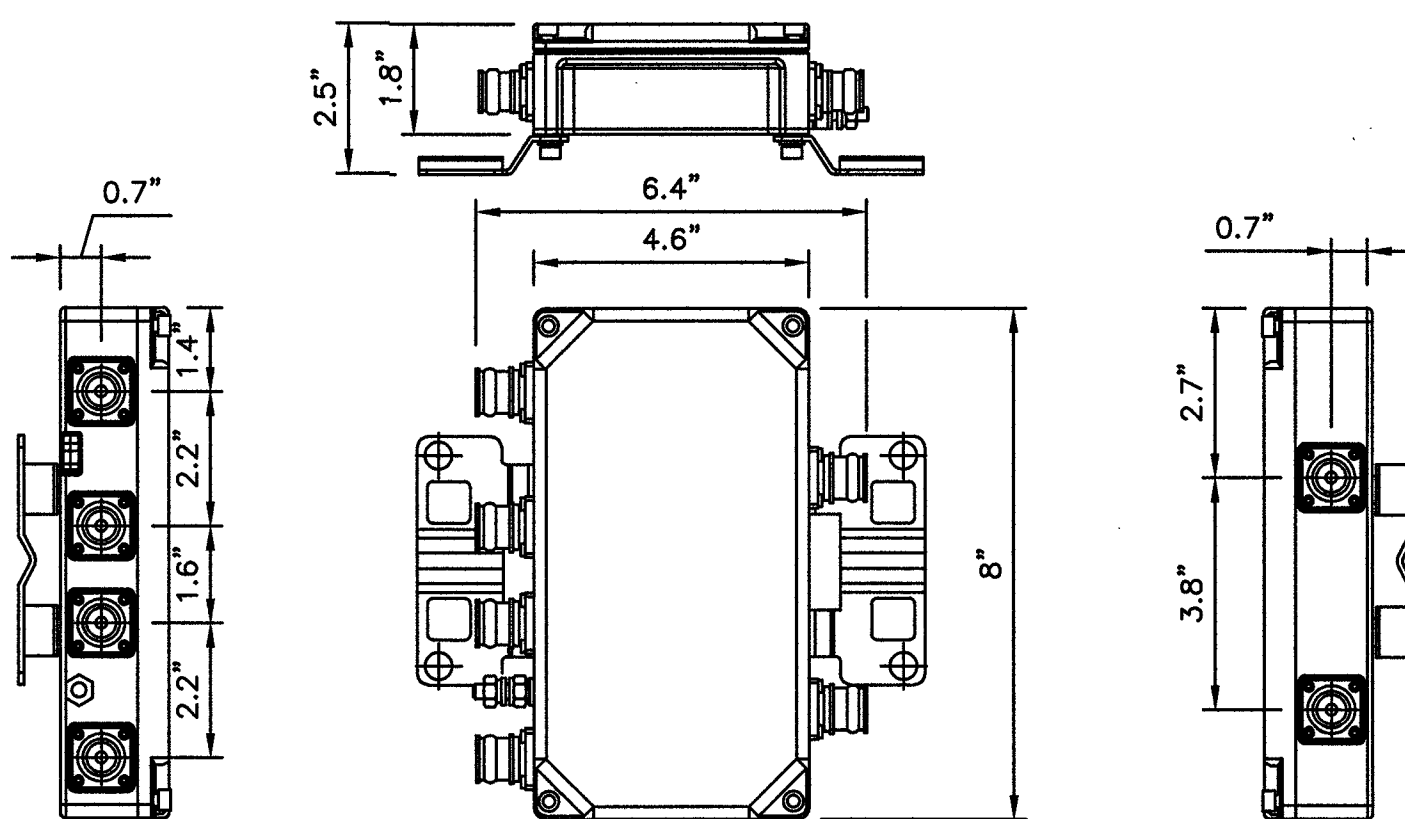
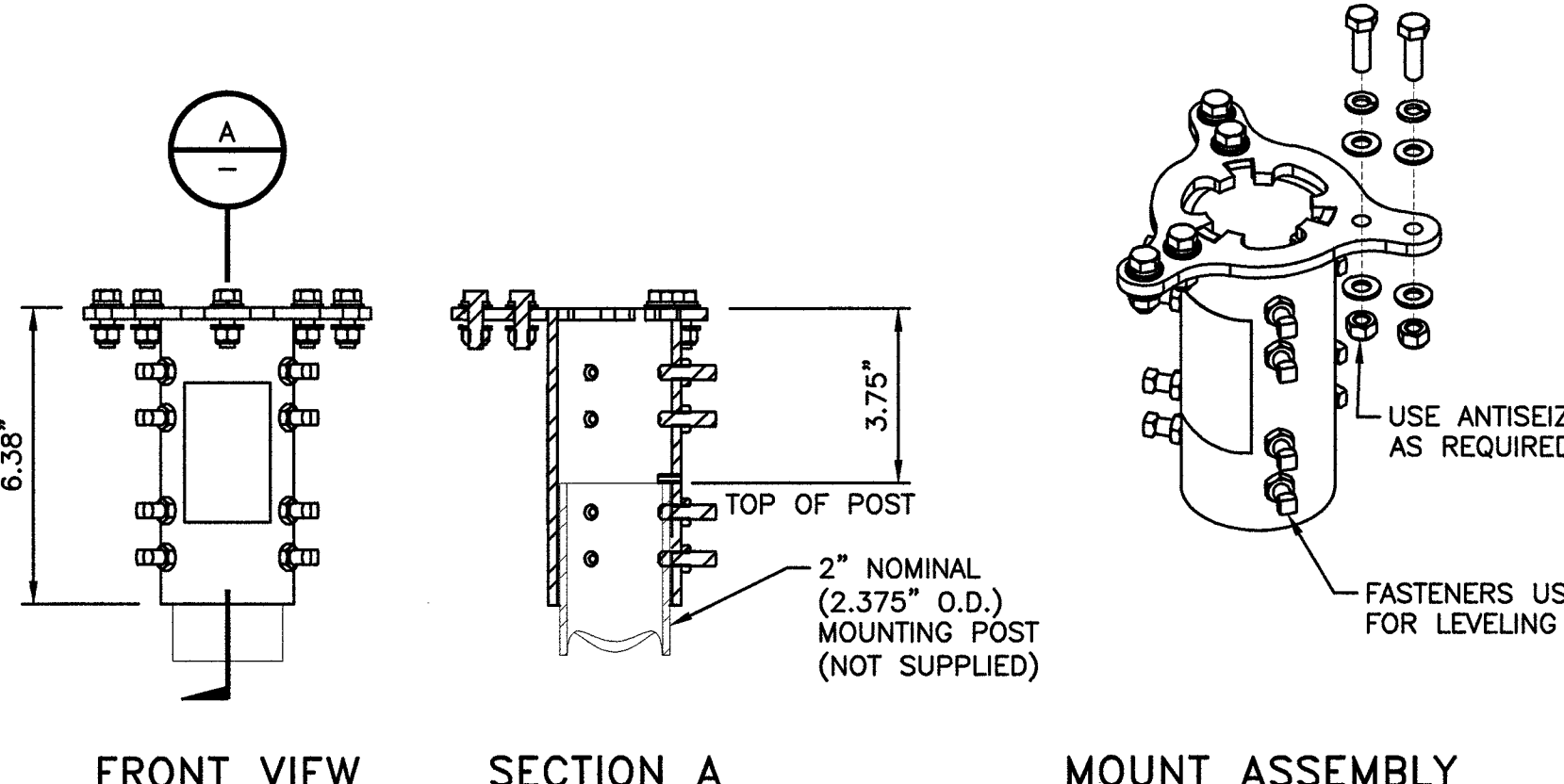
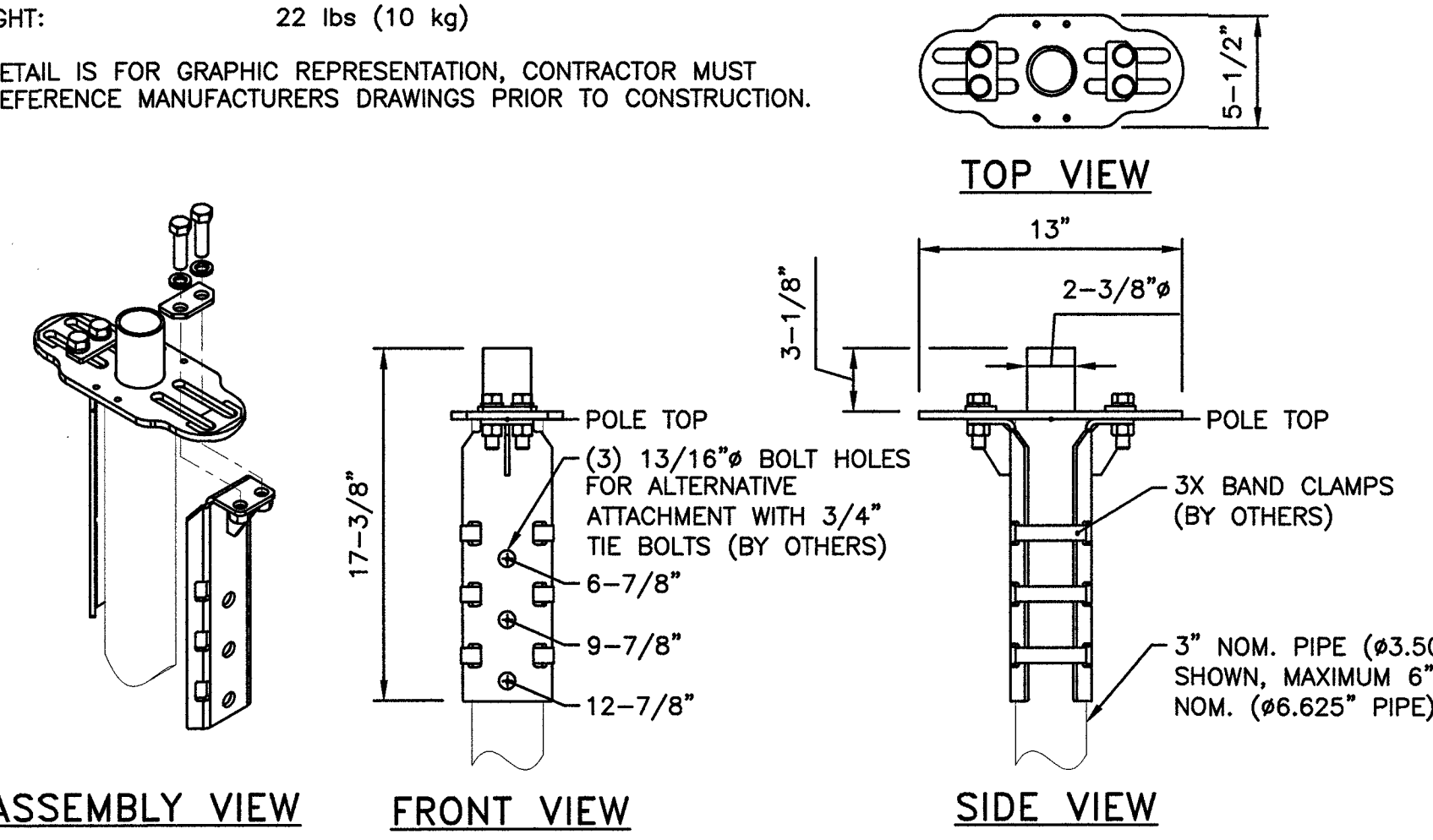
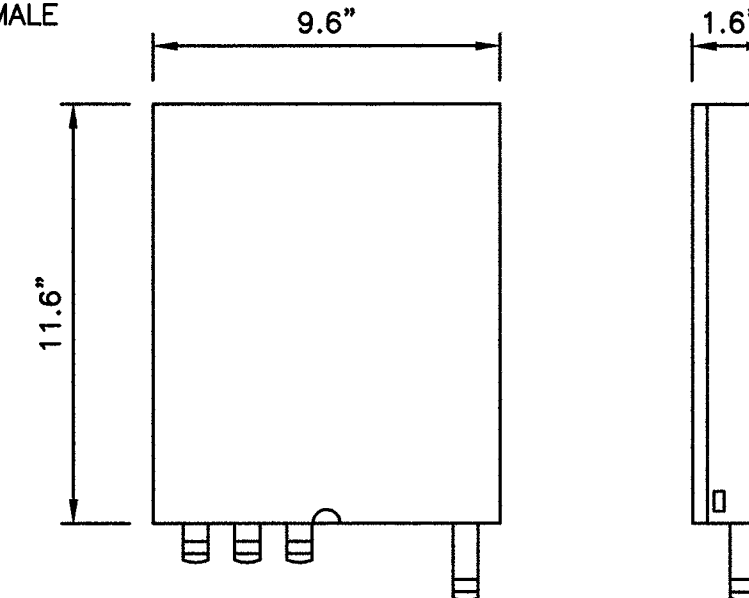
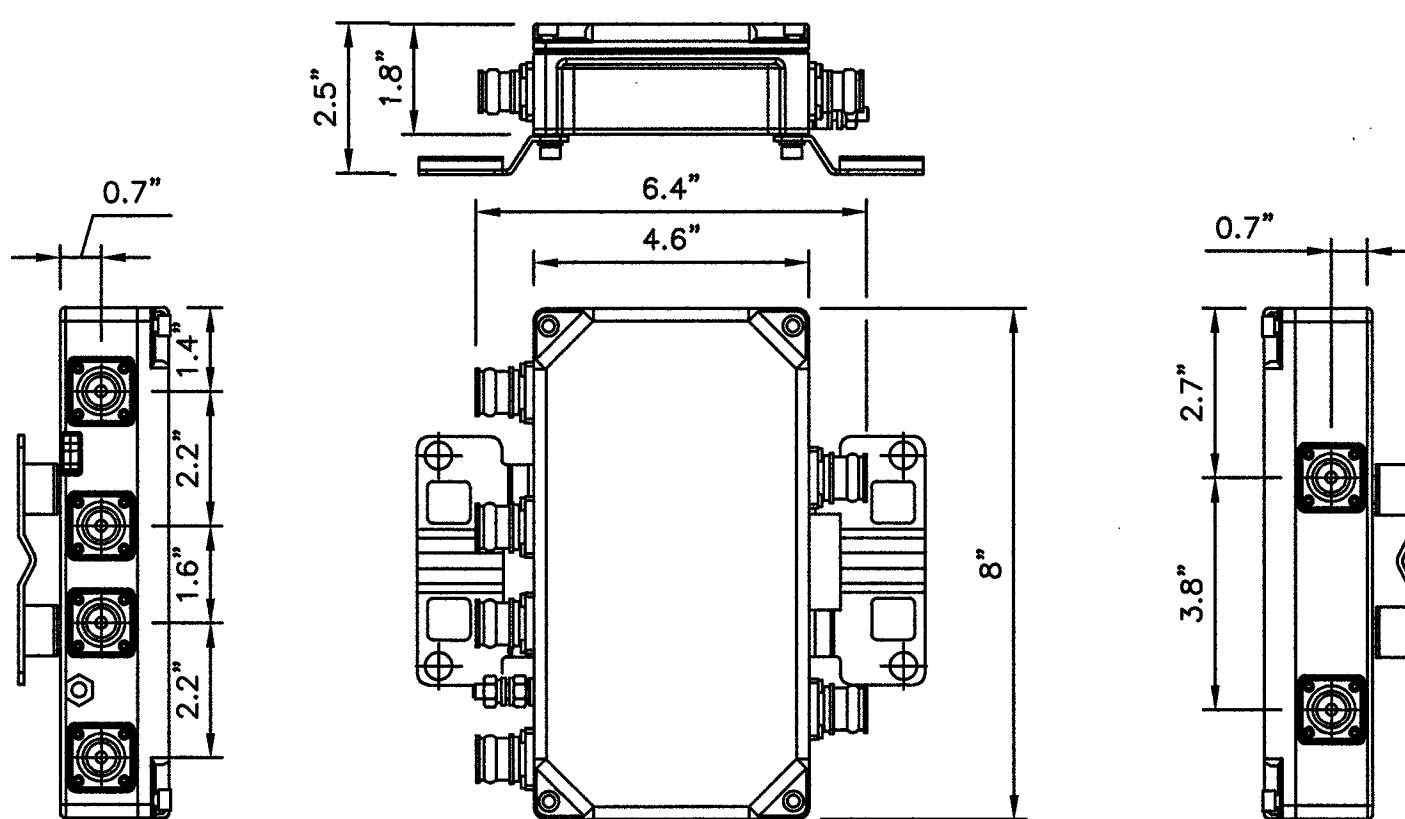
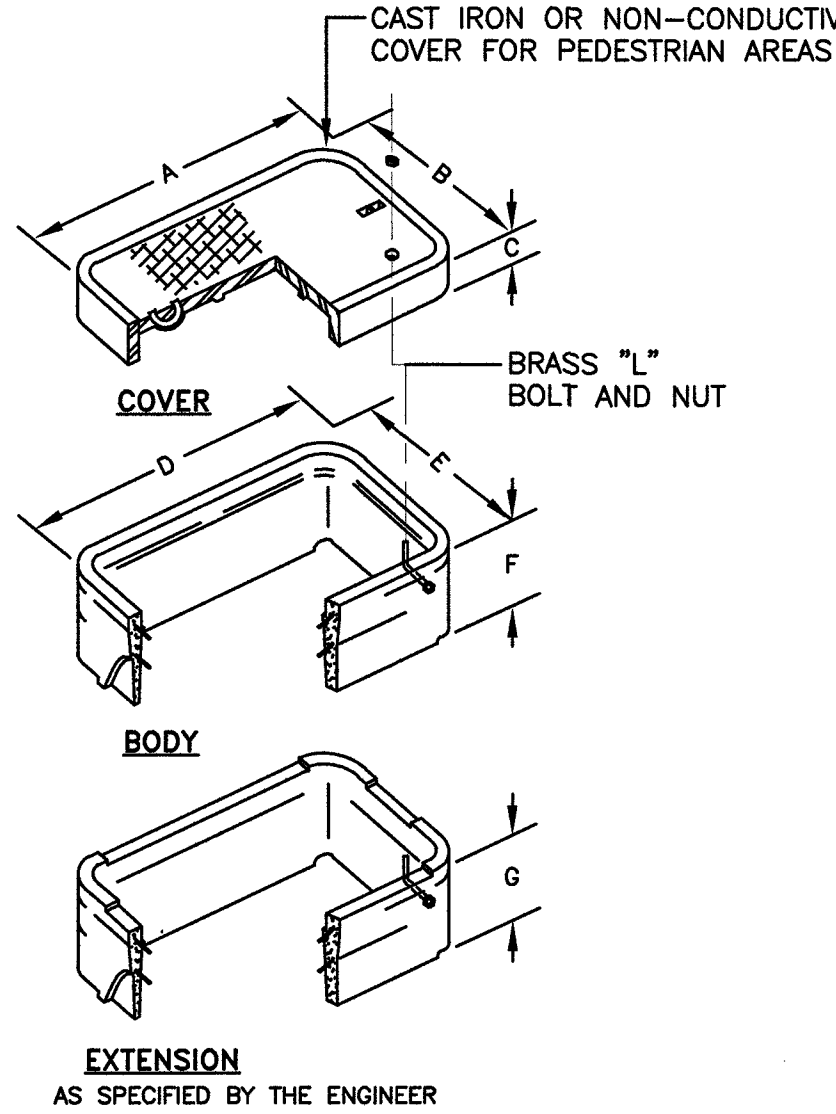
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NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
POLE ELEVATIONS AND
RISER DETAILS

SHEET NUMBER

A-2

ROSENBERGER CA-AEOIOITJTVEX360F-JS06 DIAMETER:14.5" (368mm) HEIGHT:24" (620mm) VOLUME:2.29ft³ TOTAL WEIGHT (WITHOUT MOUNT):22 lbs (10 kg) CONNECTOR INTERFACE:(12) 4.3-10 FEMALE RF CONNECTOR LOCATION:BOTTOM 																																																			
ANTENNA SPECIFICATIONS			NO SCALE	1																																															
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 																																																			
NOT USED			NO SCALE	4																																															
COMMSCOPE CBC1923T-4310 E11F13P06 DIMENSIONS, WxDxH:4.6"x1.8"x8.3" (116x46x212mm) CONNECTORS:MODULES: (4) 4.3-10 DIN FEMALE ANT: (2) 4.3-10 DIN FEMALE WEIGHT:4.9 lbs (2.2 kg) 																																																			
NOT USED			NO SCALE	7																																															
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. 			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. 																																										
ANTENNA SLEEVE MOUNT			NO SCALE	2	SMALL DIAMETER POLE TOP MOUNT			NO SCALE	3																																										
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 																																																			
RADIO SPECIFICATIONS			NO SCALE	5	RADIO SPECIFICATIONS			NO SCALE	6																																										
COMMSCOPE CBC1923T-4310 E11F13P06 DIMENSIONS, WxDxH:4.6"x1.8"x8.3" (116x46x212mm) CONNECTORS:MODULES: (4) 4.3-10 DIN FEMALE ANT: (2) 4.3-10 DIN FEMALE WEIGHT:4.9 lbs (2.2 kg) 						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. <table><tr><th colspan="4">PULL BOX</th></tr><tr><th colspan="4">SIZE (COMMERCIAL DESIGNATION)</th></tr><tr><th></th><th>3-1/2</th><th>5</th><th>7</th></tr><tr><td>A</td><td>15</td><td>21-3/4</td><td>30-5/8</td></tr><tr><td>B</td><td>10</td><td>11-3/4</td><td>17-5/8</td></tr><tr><td>C</td><td>3/4</td><td>2</td><td>2</td></tr><tr><td>D</td><td>19-3/8</td><td>25</td><td>34-3/4</td></tr><tr><td>E</td><td>14-3/8</td><td>15</td><td>21-3/4</td></tr><tr><td>F</td><td>12</td><td>12</td><td>12</td></tr><tr><td>G</td><td>N/A</td><td>10-1/4</td><td>11-1/2</td></tr></table> NOMINAL DIMENSION IN INCHES 			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			
PULL BOX																																																			
SIZE (COMMERCIAL DESIGNATION)																																																			
	3-1/2	5	7																																																
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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																																																
COMBINER SPECIFICATIONS			NO SCALE	8	CONCRETE PULL BOX SPECIFICATIONS			NO SCALE	9																																										

PROJECT NO:129084.1486

DRAWN BY:TPG

CHECKED BY:GAC

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PROFESSIONAL ENGINEER - STATE OF NEVADA

HYUN KIM

REGISTERED PROFESSIONAL ENGINEER

STRUCTURAL

06/25/19

No. 026588

NVLO8190F_R02

ADJACENT TO

1920 DENBY AVE

LAS VEGAS, NV 89106

PICO SMALL CELL

SHEET TITLE

EQUIPMENT DETAILS

SHEET NUMBER

A-3

FCA243624T-00006 FIBERGLASS/PCX POLYMER CONCRETE ASSEMBLY

DIMENSIONS (LxWxH): 36"x24"x24"
INTERIOR DIMENSIONS (LxWxH): 33"x21"x21"

- USDA/RUS APPROVED
- DROP-IN NAMEPLATE
- SHIPPED ASSEMBLED
- SKID RESISTANT COVER
- STAINLESS STEEL BOLTS
- CAST-IN FLOATING NUT BOX
- INTEGRAL DRAIN HOLES

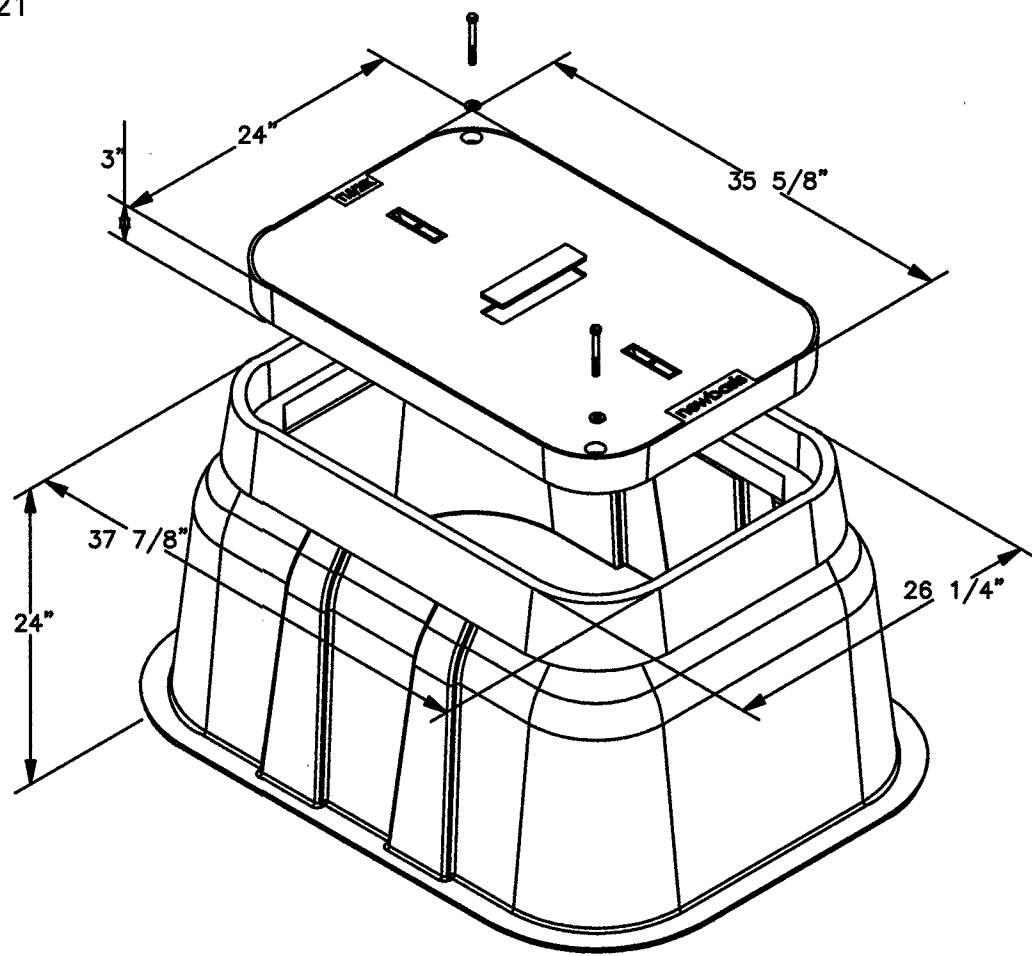
LOAD RATINGS:

INCIDENTAL TRAFFIC - PARKING LOT, SIDEWALK

CONFORMS TO:

- WUC 3.6
- ASTM C 857
- ANSI/SCTE 77 - "T15/20K"

INSIDE DIMENSIONS		
Length	Width	Depth
33 1/8"	21 1/2"	21"
43 7/8"	32 3/8"	



HAND HOLE SPECIFICATIONS

NO SCALE

1

NOT USED

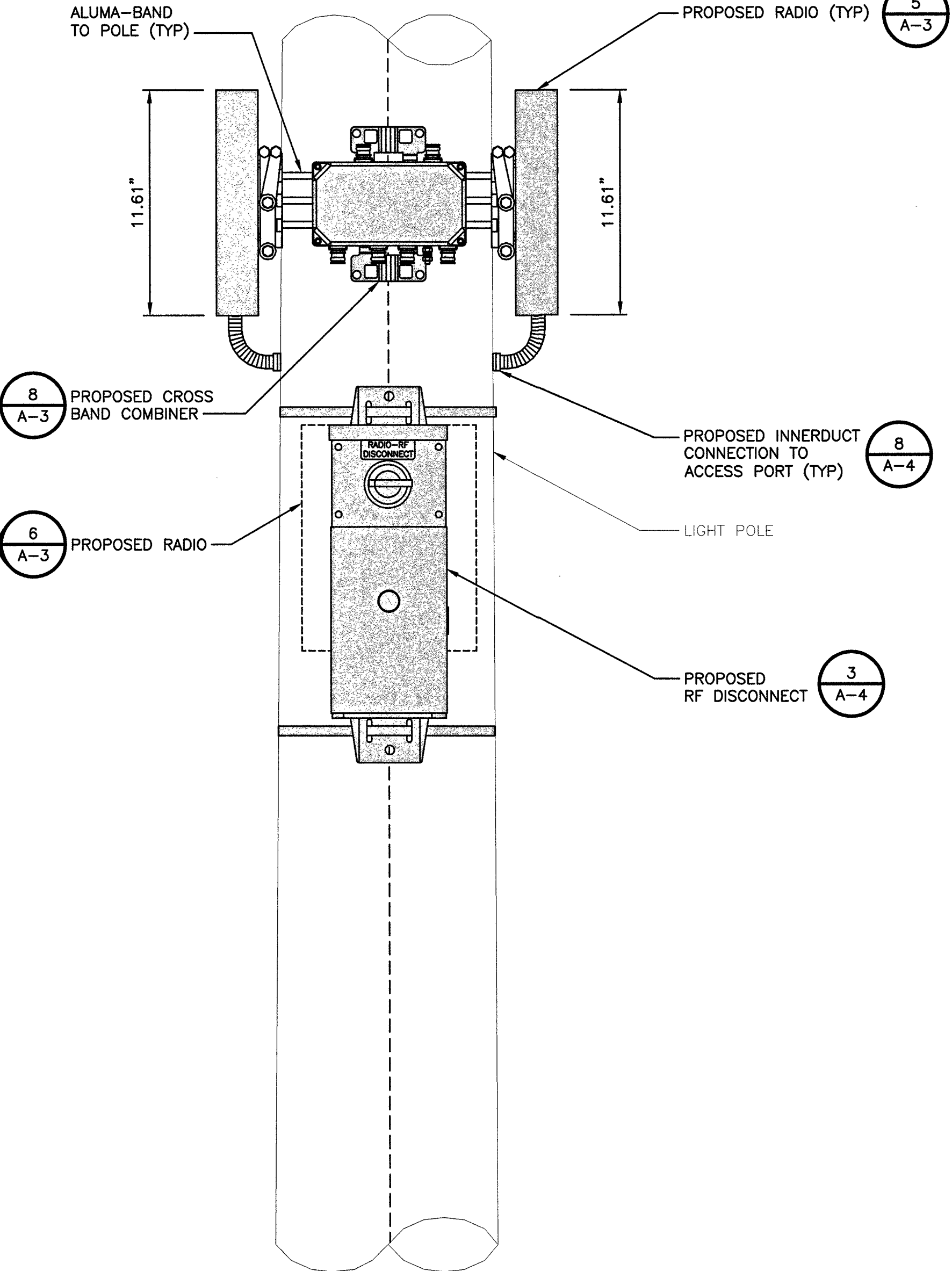
NO SCALE

2

LOAD CENTER DETAIL

NO SCALE

3



EQUIPMENT PLACEMENT DETAIL

NO SCALE

4

NOT USED

NO SCALE

7

VERTICAL ACCESS PORT DETAIL

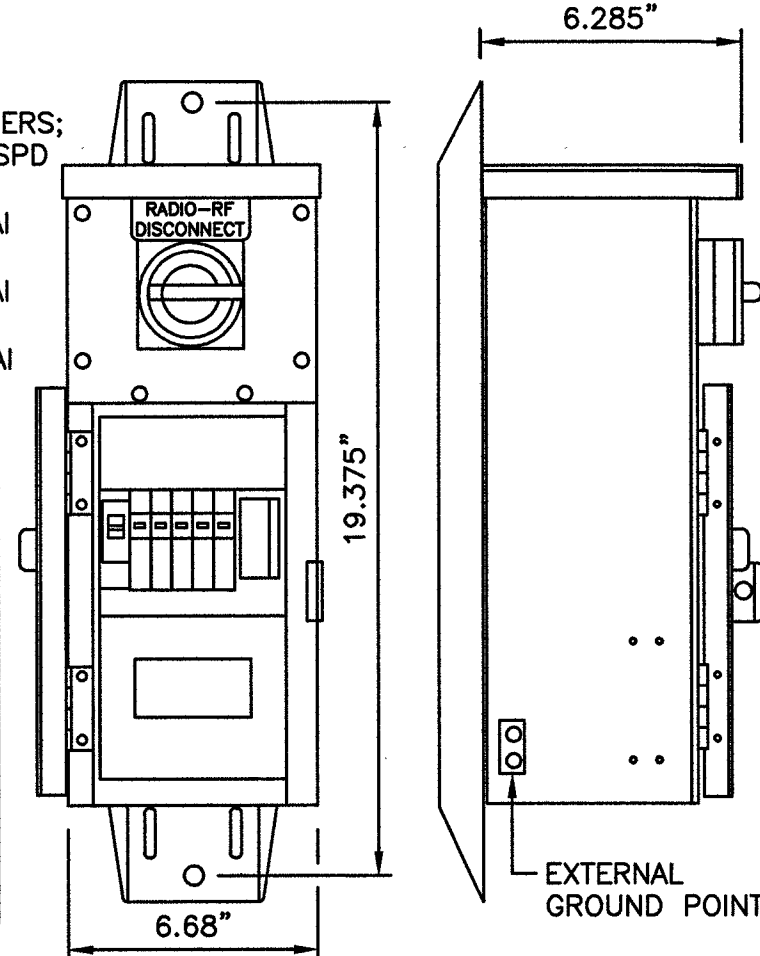
NO SCALE

8

PACTECHSOL PTS90123

DIMENSIONS, HxWxD (VOLUME): 16.15"x6.68"x6.285" (0.39ft³)
OPERATING VOLTAGE: 120 VAC
MAIN BREAKER: 60 amps
NUMBER OF BREAKERS (MAX): (5) UL-489 BREAKERS:
0-25 amp; DUAL SPD
POWER INPUT WIRE SIZE: #14-#4 awg CU-AI
POWER OUTPUT WIRE SIZE: #14-#4 awg CU-AI
NEUTRAL & GROUND CONTACTS: #14-#4 AWG CU-AI
TOTAL WEIGHT: 13 lbs

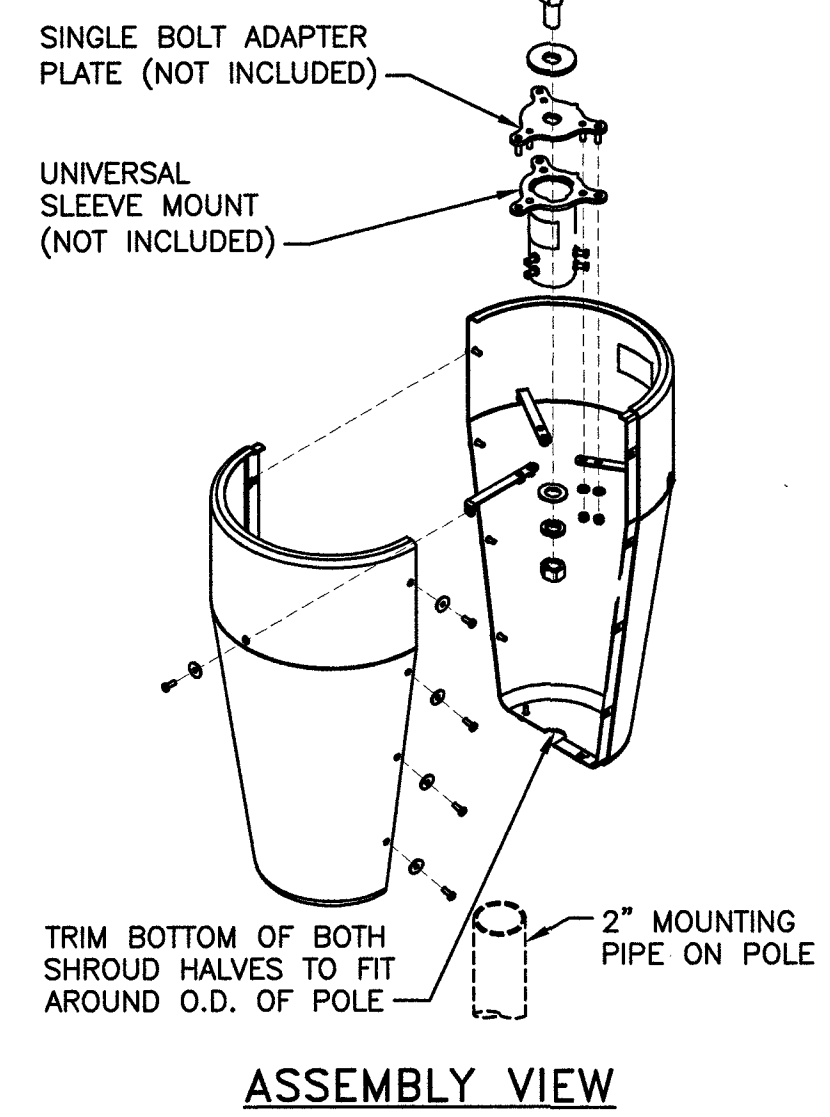
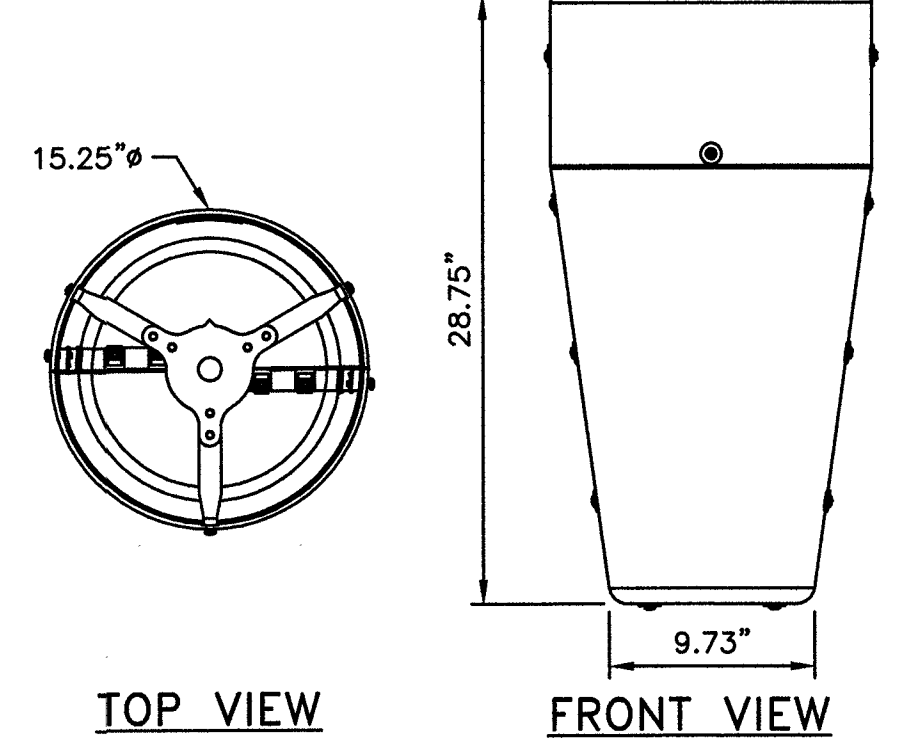
POSITION											
BASE PIN	FL	PS	PS	PS	PS	PS	PS	PS	PS	PS	PS
PT90123-1	X	X	X	X	X	X	X	X	X	X	X
PT90123-2	X	X	X	X	X	X	X	X	X	X	X
PT90123-3	X	X	X	X	X	X	X	X	X	X	X
PT90123-4	X	X	X	X	X	X	X	X	X	X	X
PT90123-5	X	X	X	X	X	X	X	X	X	X	X
PT90123-6	X	X	X	X	X	X	X	X	X	X	X
PT90123-7	X	X	X	X	X	X	X	X	X	X	X
PT90123-8	X	X	X	X	X	X	X	X	X	X	X
PT90123-9	X	X	X	X	X	X	X	X	X	X	X
PT90123-10	X	X	X	X	X	X	X	X	X	X	X
PT90123-11	X	X	X	X	X	X	X	X	X	X	X
PT90123-12	X	X	X	X	X	X	X	X	X	X	X
PT90123-13	X	X	X	X	X	X	X	X	X	X	X
PT90123-14	X	X	X	X	X	X	X	X	X	X	X
PT90123-15	X	X	X	X	X	X	X	X	X	X	X
PT90123-16	X	X	X	X	X	X	X	X	X	X	X
PT90123-17	X	X	X	X	X	X	X	X	X	X	X
PT90123-18	X	X	X	X	X	X	X	X	X	X	X
PT90123-19	X	X	X	X	X	X	X	X	X	X	X
PT90123-20	X	X	X	X	X	X	X	X	X	X	X
PT90123-21	X	X	X	X	X	X	X	X	X	X	X
PT90123-22	X	X	X	X	X	X	X	X	X	X	X
PT90123-23	X	X	X	X	X	X	X	X	X	X	X
PT90123-24	X	X	X	X	X	X	X	X	X	X	X
PT90123-25	X	X	X	X	X	X	X	X	X	X	X
PT90123-26	X	X	X	X	X	X	X	X	X	X	X
PT90123-27	X	X	X	X	X	X	X	X	X	X	X
PT90123-28	X	X	X	X	X	X	X	X	X	X	X
PT90123-29	X	X	X	X	X	X	X	X	X	X	X
PT90123-30	X	X	X	X	X	X	X	X	X	X	X
PT90123-31	X	X	X	X	X	X	X	X	X	X	X
PT90123-32	X	X	X	X	X	X	X	X	X	X	X
PT90123-33	X	X	X	X	X	X	X	X	X	X	X
PT90123-34	X	X	X	X	X	X	X	X	X	X	X
PT90123-35	X	X	X	X	X	X	X	X	X	X	X
PT90123-36	X	X	X	X	X	X	X	X	X	X	X
PT90123-37	X	X	X	X	X	X	X	X	X	X	X
PT90123-38	X	X	X	X	X	X	X	X	X	X	X
PT90123-39	X	X	X	X	X	X	X	X	X	X	X
PT90123-40	X	X	X	X	X	X	X	X	X	X	X
PT90123-41	X	X	X	X	X	X	X	X	X	X	X
PT90123-42	X	X	X	X	X	X	X	X	X	X	X
PT90123-43	X	X	X	X	X	X	X	X	X	X	X
PT90123-44	X	X	X	X	X	X	X	X	X	X	X
PT90123-45	X	X	X	X	X	X	X	X	X	X	X
PT90123-46	X	X	X	X	X	X	X	X	X	X	X
PT90123-47	X	X	X	X	X	X	X	X	X	X	X
PT90123-48	X	X	X	X	X	X	X	X	X	X	X
PT90123-49	X	X	X	X	X	X	X	X	X	X	X
PT90123-50	X	X	X	X	X	X	X	X	X	X	X
PT90123-51	X	X	X	X	X	X	X	X	X	X	X
PT90123-52	X	X	X	X	X	X	X	X	X	X	X
PT90123-53	X	X	X	X	X	X	X	X	X	X	X
PT90123-54	X	X	X	X	X	X	X	X	X	X	X
PT90123-55	X	X	X	X	X	X	X	X	X	X	X
PT90123-56	X	X	X	X	X	X	X	X	X	X	X
PT90123-57	X	X	X	X	X	X	X	X	X	X	X
PT90123-58	X	X	X	X	X	X	X	X	X	X	X
PT90123-59	X	X	X	X	X	X	X	X	X	X	X
PT90123-60	X	X	X	X	X	X	X	X	X	X	X
PT90123-61	X	X	X	X	X	X	X	X	X	X	X
PT90123-62	X	X	X	X	X	X	X	X	X	X	X
PT90123-63	X	X	X	X	X	X	X	X	X	X	X
PT90123-64	X	X	X	X	X	X	X	X	X	X	X
PT90123-65	X	X	X	X	X	X	X	X	X	X	X
PT90123-66	X	X	X	X	X	X	X	X	X	X	X
PT90123-67	X	X	X	X	X	X	X	X	X	X	X
PT90123-68	X	X	X	X	X	X	X	X	X	X	X
PT90123-69	X	X	X	X	X	X	X	X	X	X	X
PT90123-70	X	X	X	X	X	X	X	X	X	X	X
PT90123-71	X	X	X	X	X	X	X	X	X	X	X
PT90123-72	X	X	X	X	X	X	X	X	X	X	X
PT90123-73	X	X	X	X	X	X	X	X	X	X	X
PT90123-74	X	X	X	X	X	X	X	X	X	X	X
PT90123-75	X	X	X	X	X	X	X	X	X	X	X
PT90123-76	X	X	X	X	X	X	X	X	X	X	X
PT90123-77	X	X	X	X	X	X	X	X	X	X	X
PT90123-78	X	X	X	X	X	X	X	X	X	X	X
PT90123-79	X	X	X	X	X	X	X	X	X	X	X
PT90123-80	X	X	X	X	X	X	X	X	X	X	X
PT90123-81	X	X	X	X	X	X	X	X	X	X	X
PT90123-82	X	X	X	X	X	X	X	X	X	X	X
PT90123-83	X	X	X	X	X	X	X	X	X	X	X
PT90123-84	X	X	X	X	X	X	X	X	X	X	X
PT90123-85	X	X	X	X	X	X	X	X	X	X	X
PT90123-86	X	X	X	X	X	X	X	X	X	X	X
PT90123-87	X	X	X	X	X	X	X	X	X	X	X
PT90123-88	X	X	X	X	X	X	X	X	X	X	X
PT90123-89	X	X	X	X	X	X	X	X	X	X	X
PT90123-90	X	X	X	X	X	X	X	X	X	X	X
PT90123-91	X	X	X	X	X	X	X	X	X	X	X
PT90123-92	X	X	X	X	X	X	X	X	X	X	X
PT90123-93	X	X	X	X	X	X	X	X	X	X	X
PT90123-94	X	X	X	X	X	X	X	X	X	X	X
PT90123-95	X	X	X	X	X	X	X	X	X	X	X
PT90123-96	X	X	X	X	X	X	X	X	X	X	X
PT90123-97	X	X	X	X	X	X	X	X	X	X	X
PT90123-98	X	X	X	X	X	X	X	X	X	X	X
PT90123-99	X	X	X	X	X	X	X	X	X	X	X
PT90123-100	X	X	X	X	X	X	X	X	X	X	X



CONCEALFAB 900086

HEIGHT: 28.75" (703.25 mm)
DIAMETER: 15.25" (387.35 mm)
WEIGHT: 6.95 lbs (3.15 kg)

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



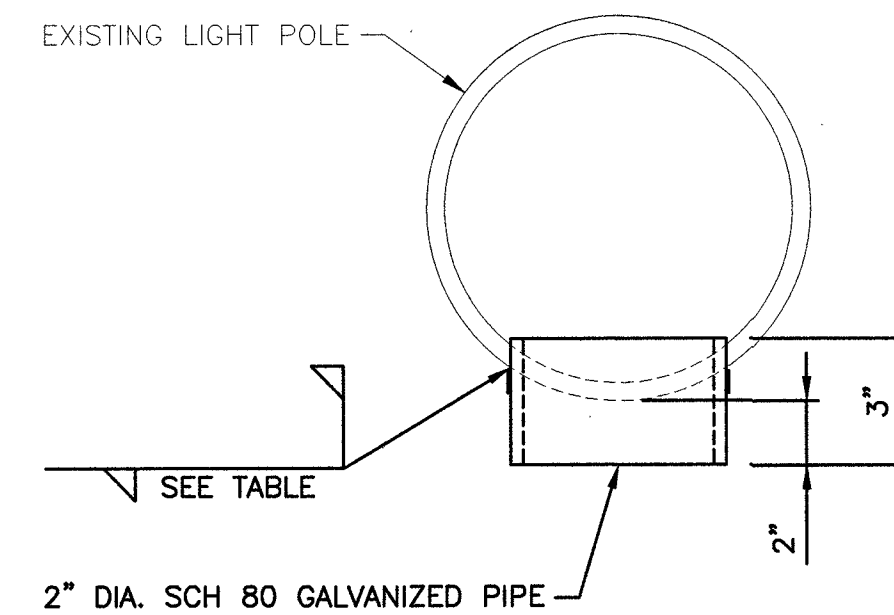
POLE TOP MOUNT CABLE SHROUD

NO SCALE

6

MINIMUM SIZE OF FILLET WELDS	
MATERIAL THICKNESS OF THICKER PART JOINED (IN.)	MINIMUM SIZE OF FILLET WELD* (IN.)
TO 1/4 INCLUSIVE	3/16
OVER 1/4 TO 1/2	1/8
OVER 1/2 TO 3/4	1/4
OVER 3/4	3/8

*LEG DIMENSION OF FILLET WELDS. SINGLE-PASS WELDS MUST BE USED.



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

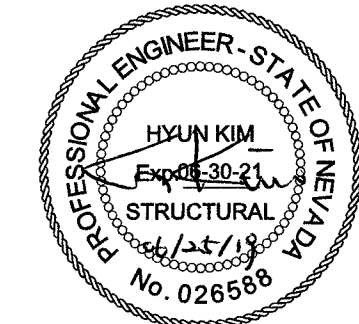
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

DRAWN BY: TPG

CHECKED BY: GAC

REV	DATE	DESCRIPTION
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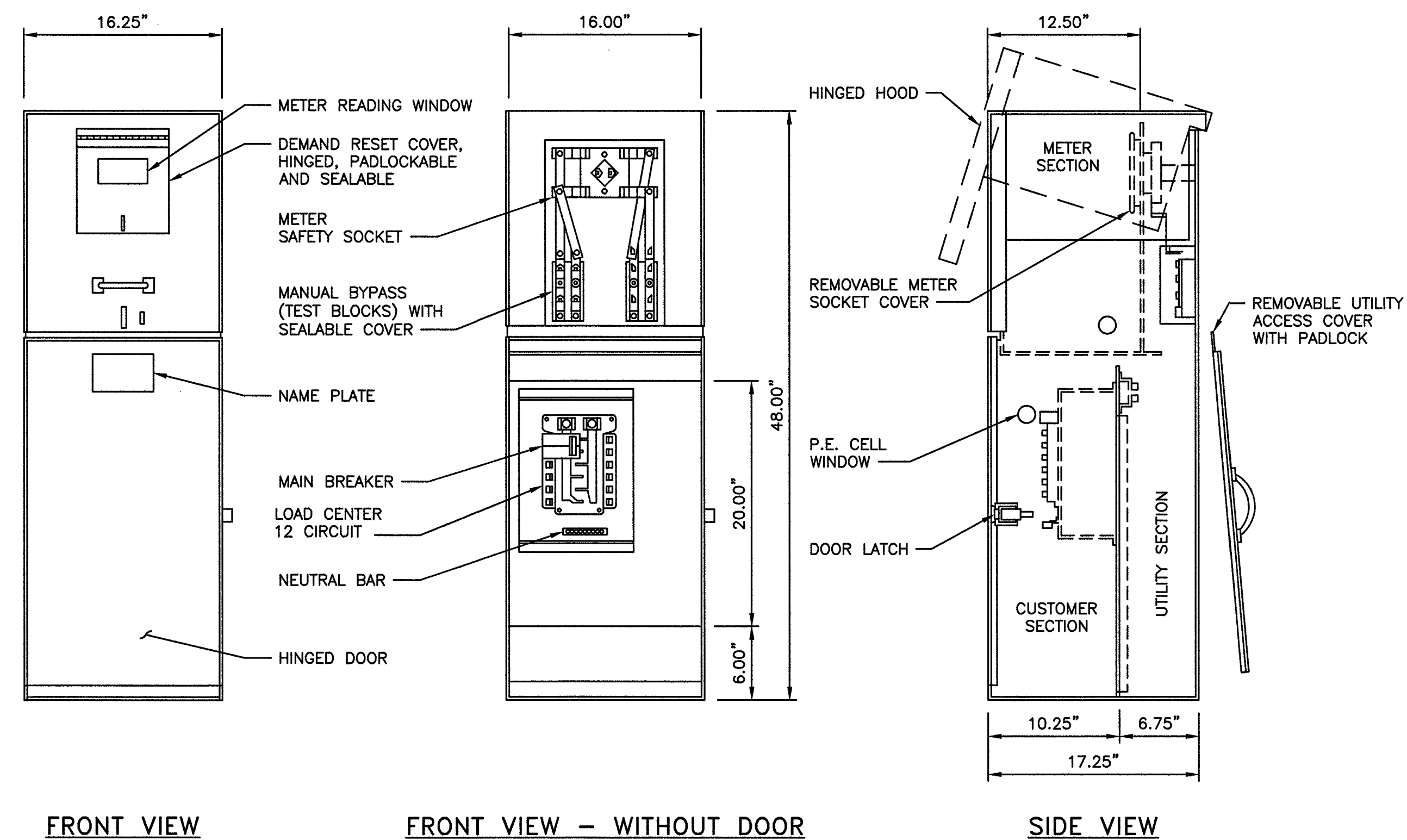
NVLO8190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
EQUIPMENT DETAILS

SHEET NUMBER

A-4

MYERS MEUG16-M200 CALTRANS TYPE III-BF



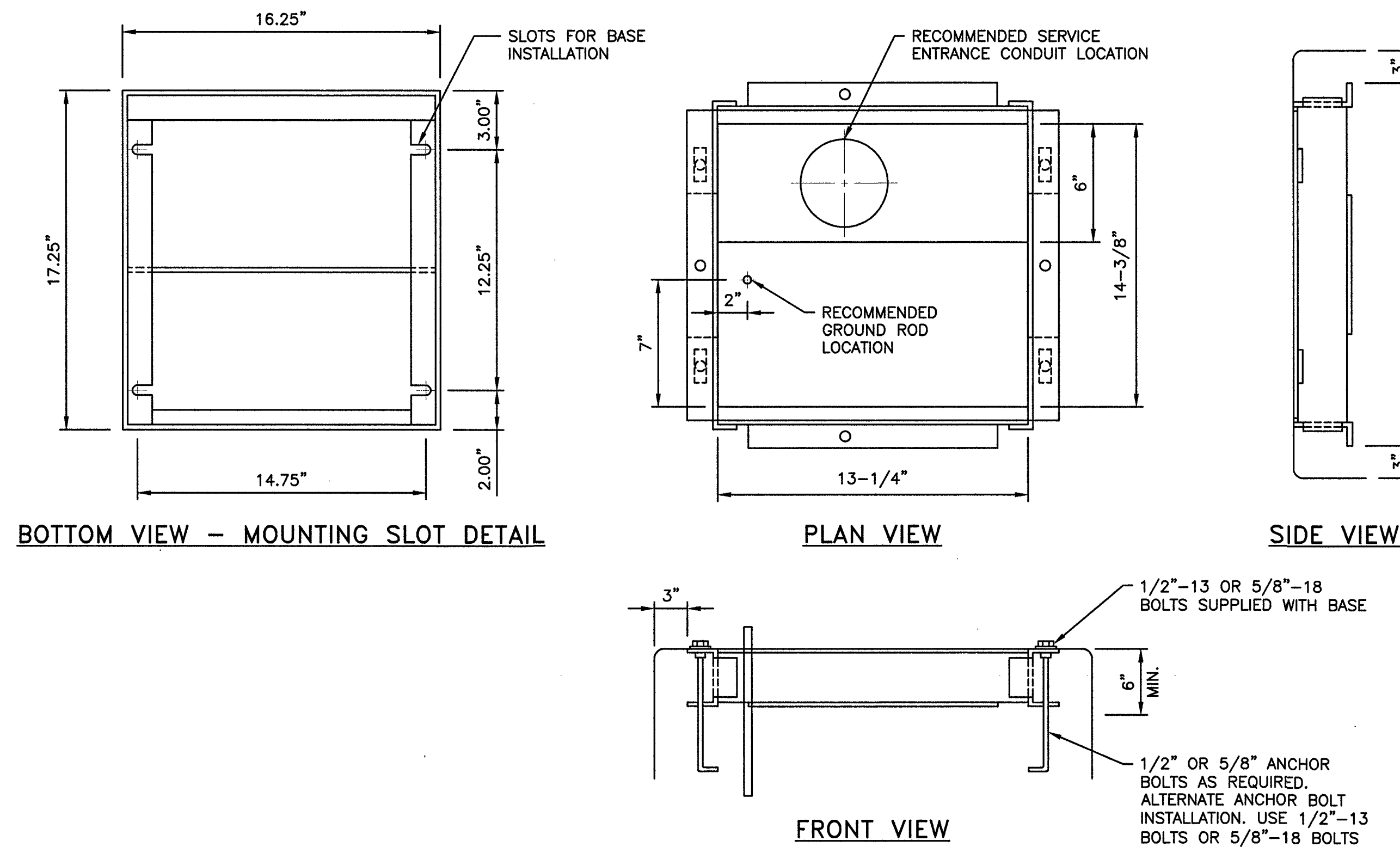
METER PEDESTAL DETAIL

NO SCALE

1

NOTES

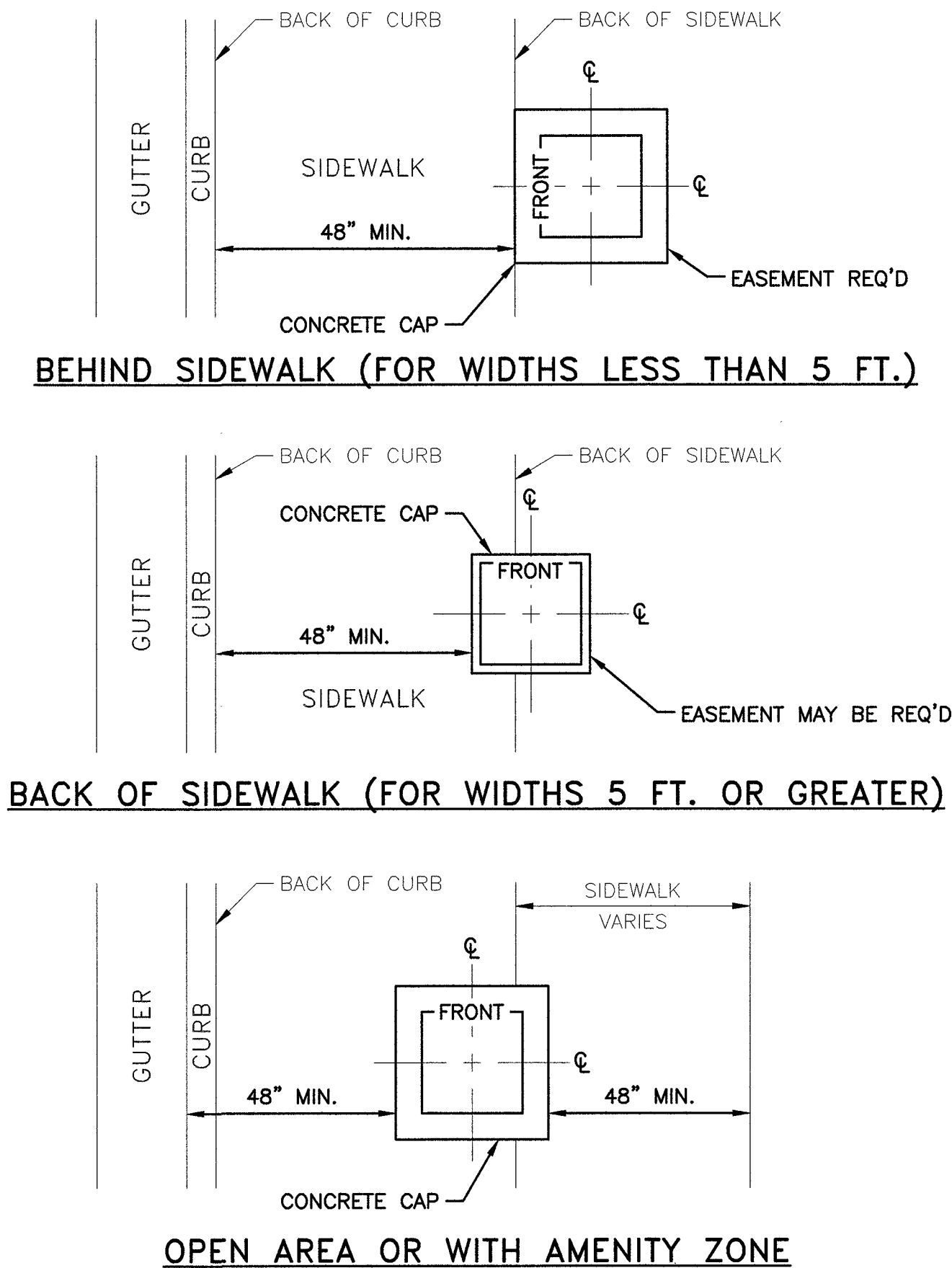
1. MINIMUM CLEARANCE REQUIRED 36" PER NEC 110-16, TYPICAL FRONT AND BACK.
2. FOUNDATION DIMENSIONS AND DEPTH PER JOB SPECIFICATIONS.



BASEPLATE DETAIL

NO SCALE

3



SERVICE PEDESTAL SETBACK DETAILS (USDCCA DRAWING #331)

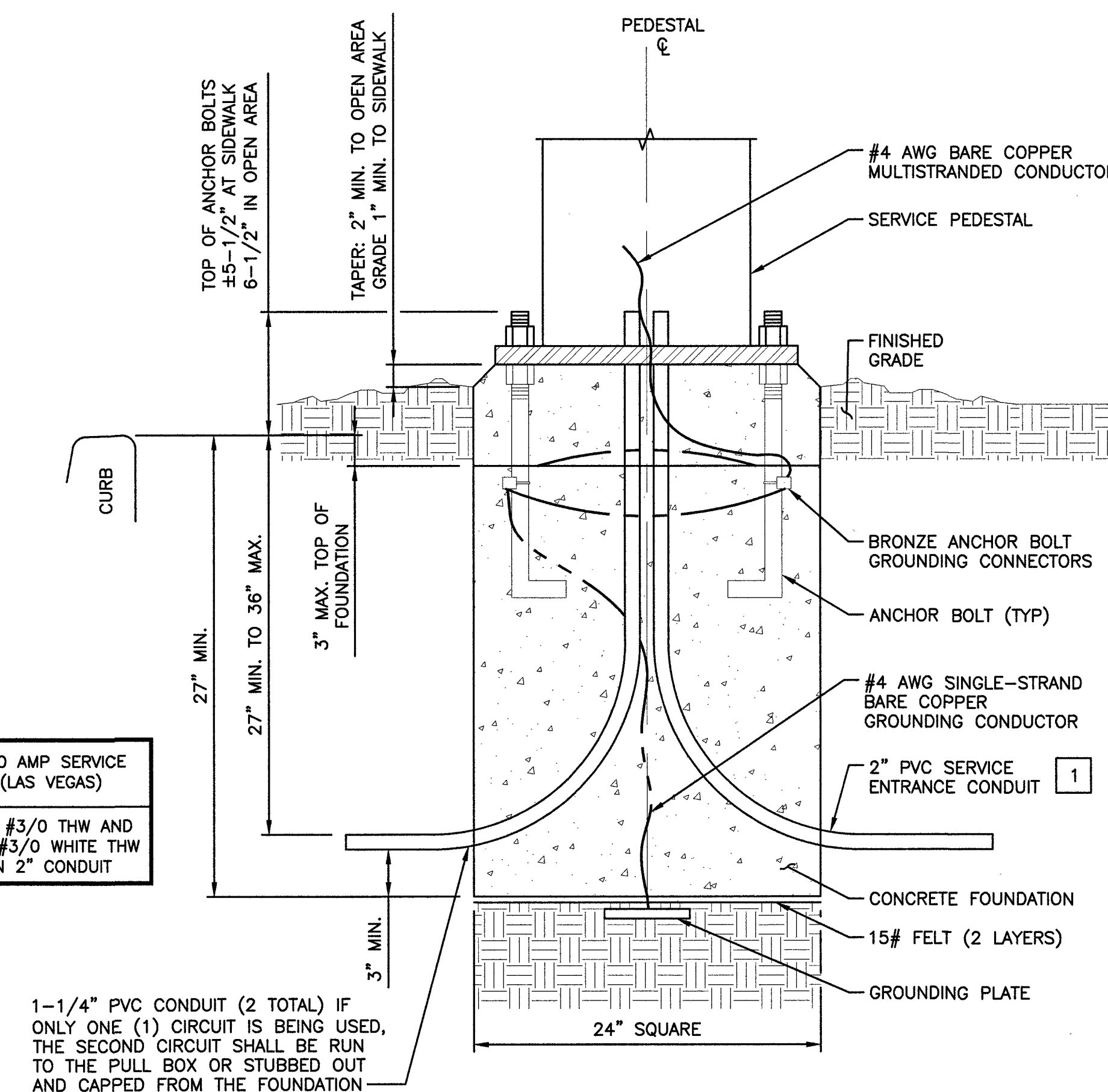
NO SCALE

2

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.

NO	125 AMP SERVICE	200 AMP SERVICE (CLARK COUNTY)	200 AMP SERVICE (LAS VEGAS)
1	(2) #1/0 THW AND (1) #1/0 WHITE THW IN 2" CONDUIT	(2) #4/0 THW AND (1) #4/0 WHITE THW IN 2" CONDUIT	(2) #3/0 THW AND (1) #3/0 WHITE THW IN 2" CONDUIT



SERVICE PEDESTAL FOUNDATION DETAIL

NO SCALE

4



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

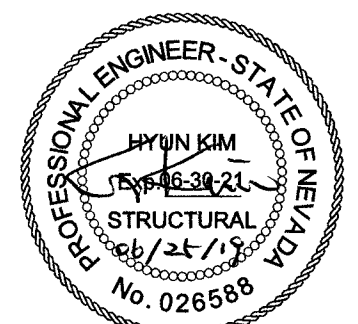
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

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NVLO8190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
METER PEDESTAL DETAILS

SHEET NUMBER
A-5



NOTICE

RF energy emitted by this device may exceed the FCC's general public exposure limits. Stay at least 1 foot away from the device. Call 800-638-2822 for help if you need access within 1 foot

RF NOTICE DECAL

NOTICE

AT&T operates antennas at this structure.

Above this point you are entering an area where radio frequency (RF) fields may exceed the FCC General Population Exposure limits.

Follow safety guidelines for working in an RF environment.

Keep 1 ft. away from the fronts of antennas.

Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing and maintenance or repairs above this point.

This is AT&T Site USID _____

CAUTION

AT&T operates antennas at this structure.

Above this point you are entering an area where radio frequency (RF) fields may exceed the FCC General Occupational Exposure limits.

Follow safety guidelines for working in an RF environment.

Keep 1 ft. away from the fronts of antennas.

Contact AT&T at 800-638-2822, opt. 9, 3 and follow their instructions prior to performing and maintenance or repairs above this point.

Cell Site USID _____

EME PLACARD/DECAL

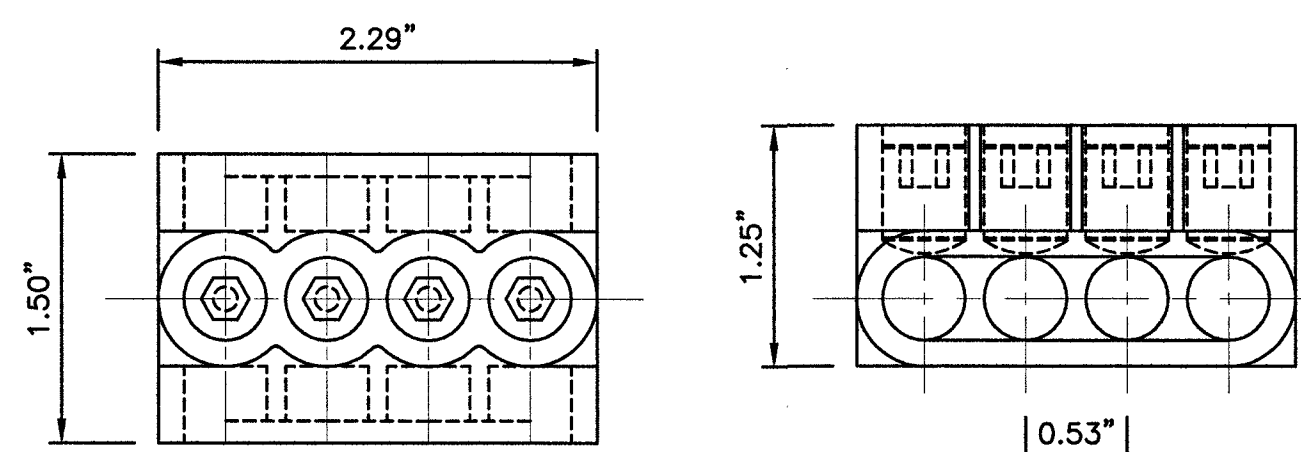
NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

RF SIGNAGE DETAIL

NO SCALE

1

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



CONNECTOR DETAIL

NO SCALE

2

BUSSMANN - HEB SERIES

BREAKAWAY MODEL#: HEB-AW-RLC-A (5.8" LONG)

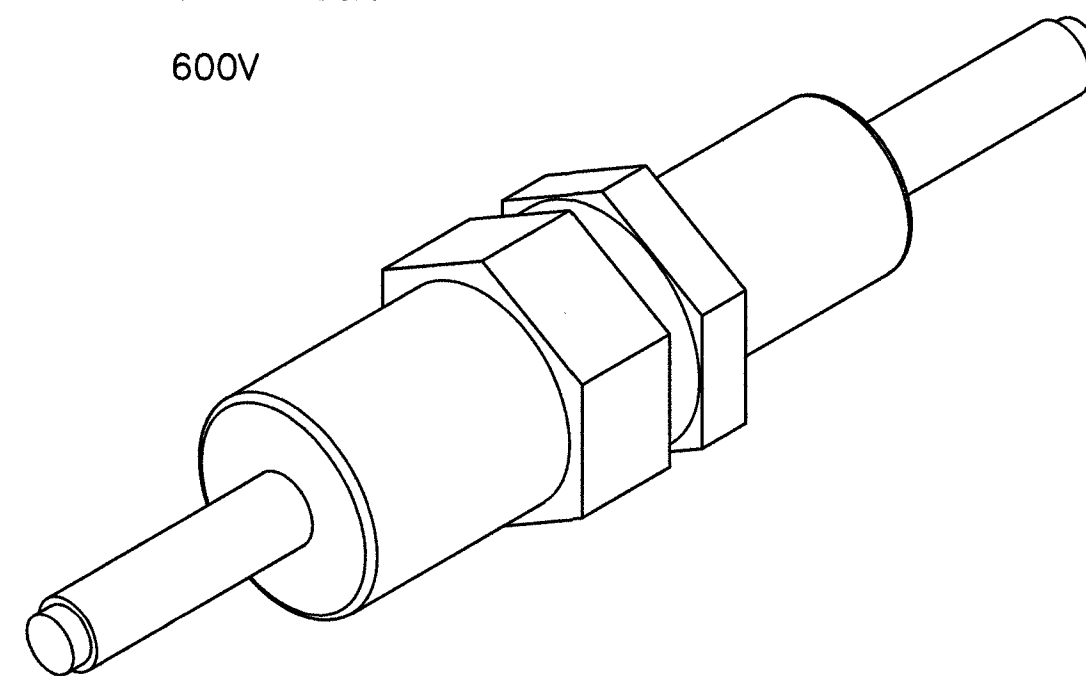
NON-BREAKAWAY MODEL#: HEB-AA (4.4" LONG)

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

RECOMMENDED FUSES: BAF, FNM, FNQ, KLM AND KTK

AMPS: UP TO 30A

VOLTS: 600V



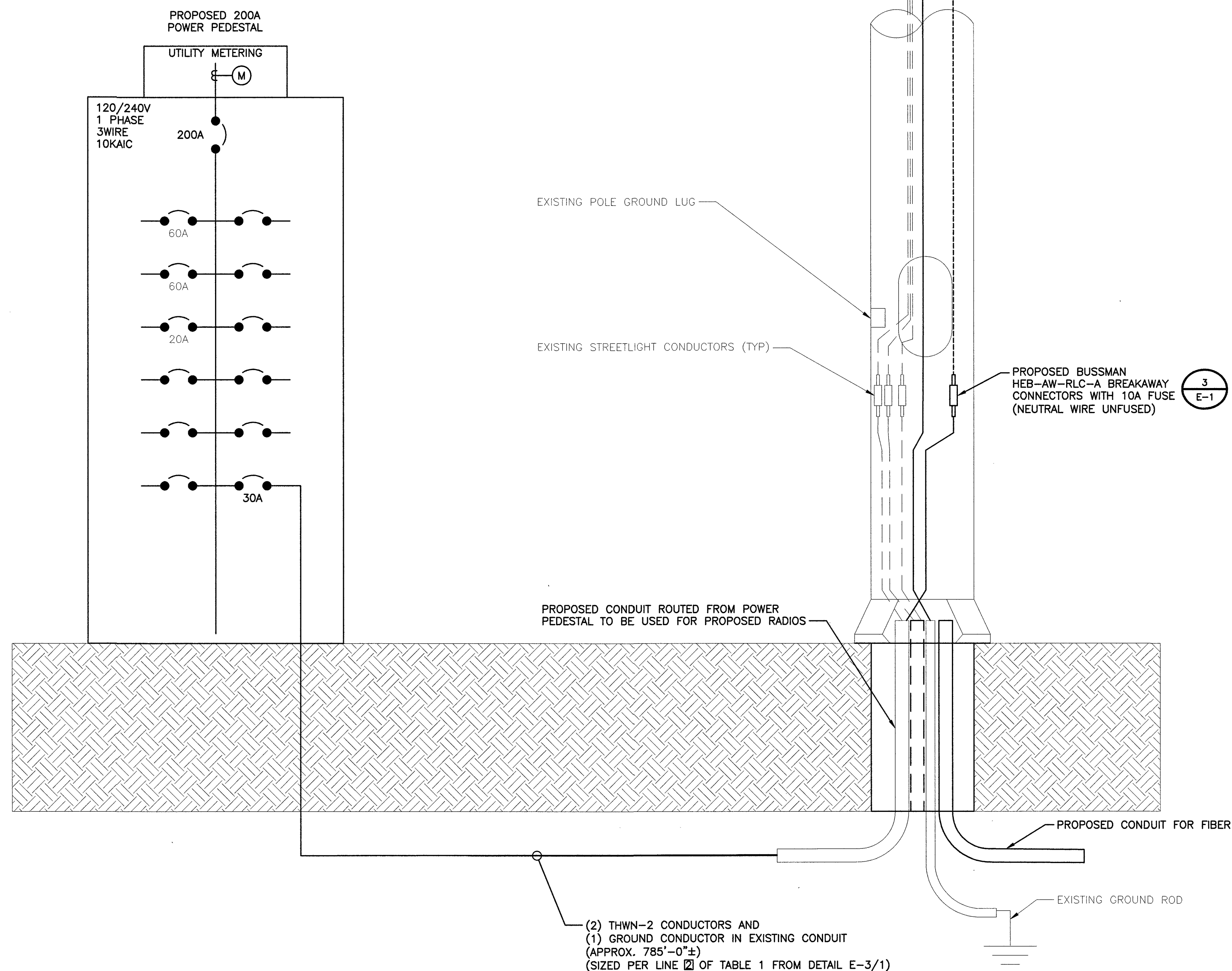
PROPOSED BREAKAWAY AND NON-BREAKAWAY IN-LINE FUSE HOLDER

NO SCALE

3

NOTES

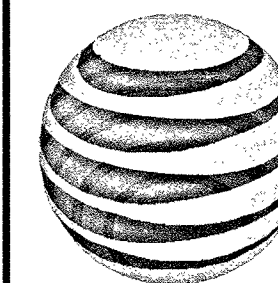
1. CONTRACTOR IS TO FIELD VERIFY ALL EXISTING ITEMS SHOWN ON THE ELECTRICAL ONE-LINE DIAGRAM AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
2. ALL NEW CONDUCTOR WIRE TO BE INSTALLED SHALL BE COPPER THWN-2, THW-2, RHW-2, XHHW-2 WIRE UNLESS NOTED OTHERWISE.
3. ALL GROUNDING AND BONDING TO BE PER THE RECOGNIZED 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.



TYPICAL POLE SITE TEMPLATE

NO SCALE

4



at&t

AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

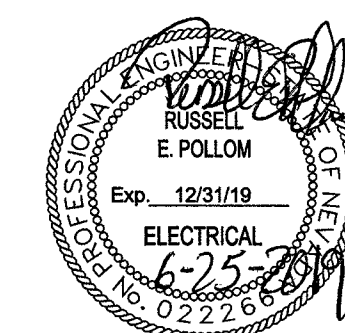
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

DRAWN BY: TPG

CHECKED BY: GAC

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NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
ELECTRICAL DETAILS

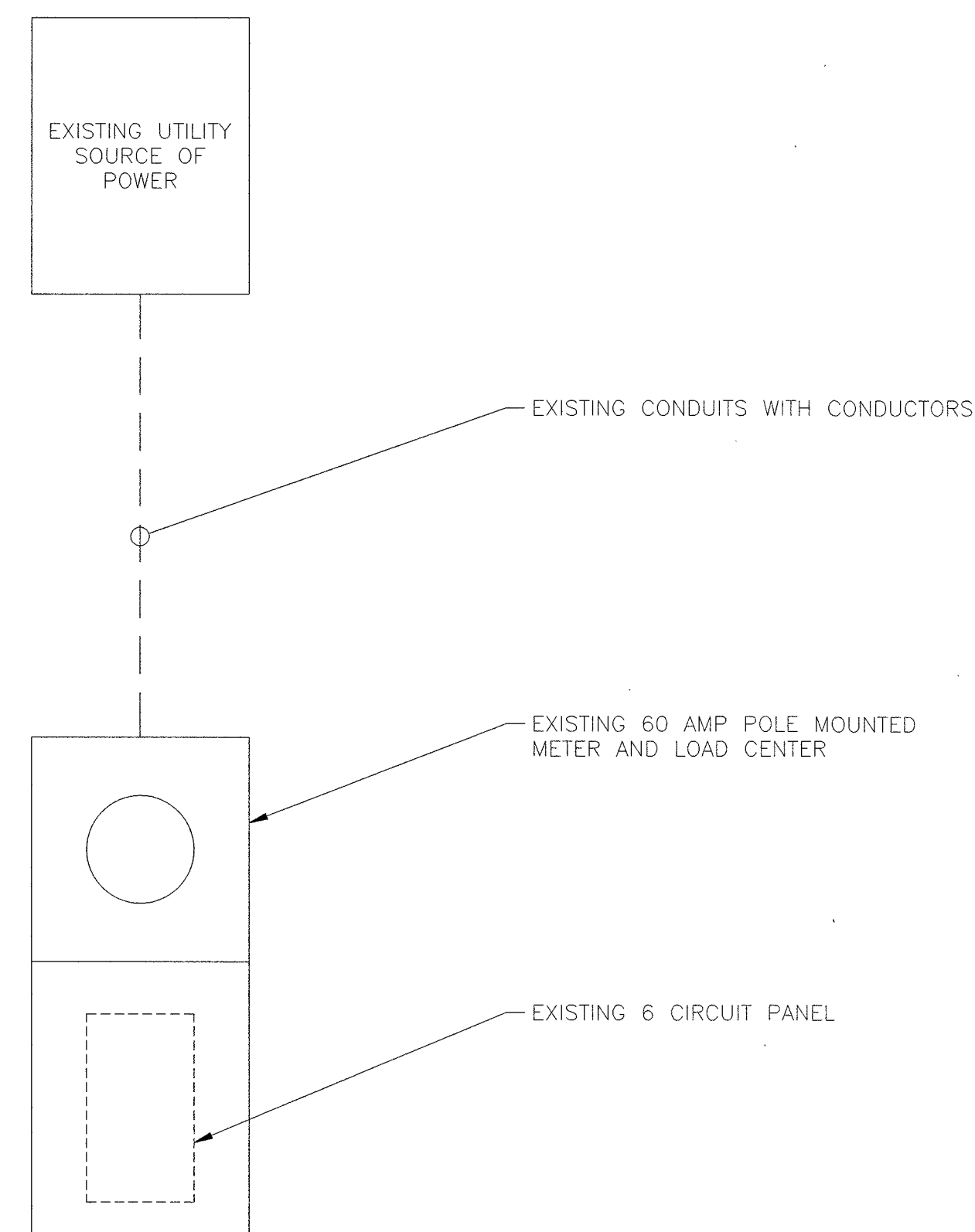
SHEET NUMBER

E-1

9

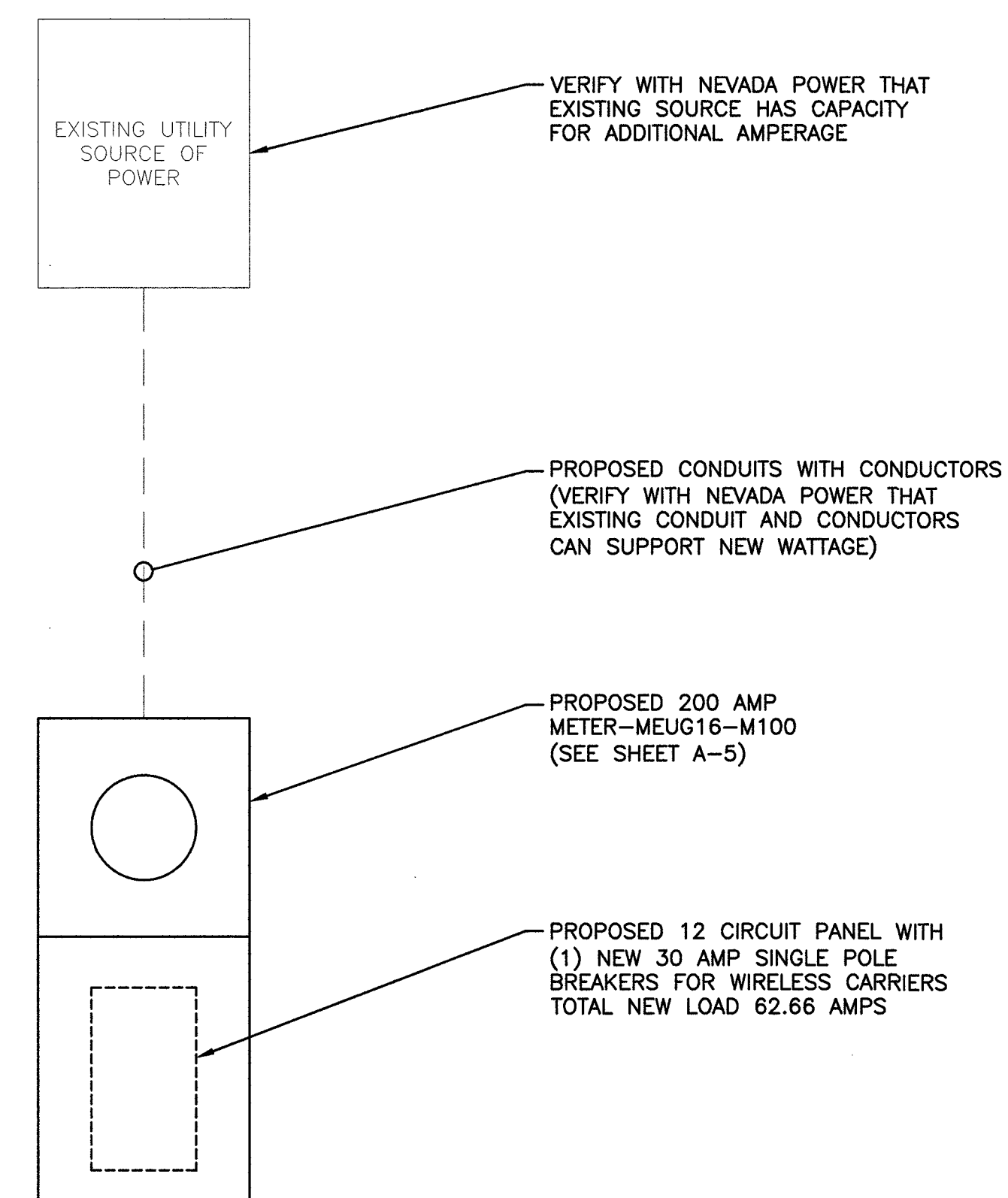
EXISTING ELECTRICAL LOAD STUDY

EXISTING LOAD.....48.25 AMPS
ALLOWED LOAD 80%.....48.00 AMPS



PROPOSED ELECTRICAL LOAD STUDY

EXISTING LOAD.....48.25 AMPS
SAFETY FACTOR 125%.....60.32 AMPS
PROPOSED LOAD.....2.34 AMPS
TOTAL LOAD.....62.66 AMPS
ALLOWED LOAD 80% OF 200 AMPS.....160.00 AMPS



EXISTING SINGLE LINE DIAGRAM

NO SCALE

1

PROPOSED SINGLE LINE DIAGRAM

NO SCALE

2

Site Name:		1920 DENBY AVE						MODEL NUMBER:		PROPOSED METER AND LOAD CENTER PEDESTAL									
SITE NUMBER:		CRAN_NVLO8190F_R02						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:		PROPOSED																	
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	30	PAC TECHSOL PTS90122-3-AA777-PN-8	2		
3					0	1.00	1.00		0										4
5	EXISTING STREET LIGHT	60	2	ON	5760	1.00	1.25	7200									6		
7					5760	1.00	1.25		7200										8
9	PHOTO CELL	20	1	ON	60	1.00	1.25	75									10		
11									0								12		
									PHASE A	PHASE B									
									7838	7200	VA								
									TOTAL	KVA	15.04								
										AMPS	62.66	≤ 80% OF MAIN BREAKER							

PROPOSED PANEL SCHEDULE AND CALCS

NO SCALE

3



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

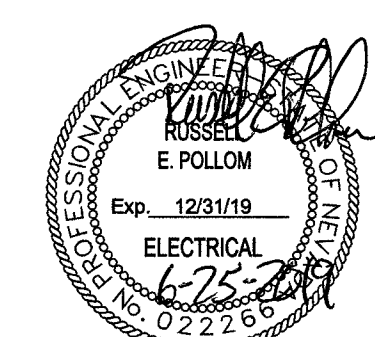
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

DRAWN BY: TPG

CHECKED BY: GAC

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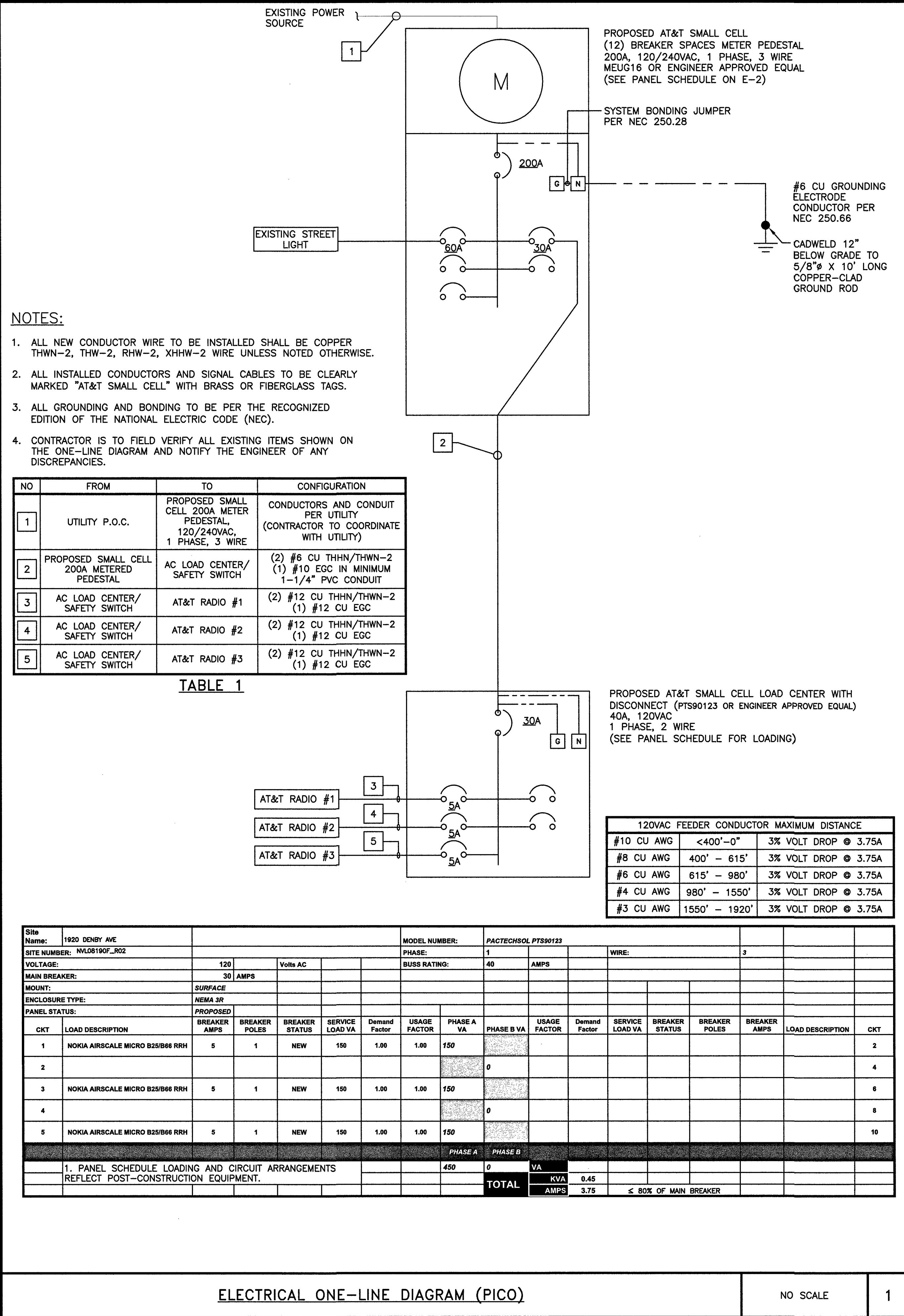
NVLO8190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
ELECTRICAL CALCULATIONS
AND SCHEDULES

SHEET NUMBER

E-2

16



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

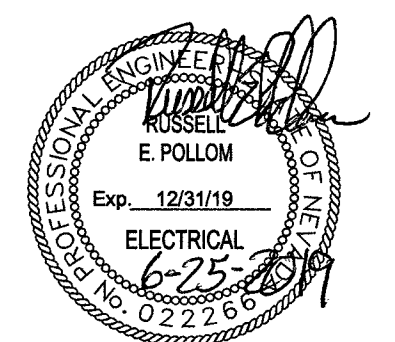
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

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NVLO8190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
ELECTRICAL ONE-LINE
DIAGRAM

SHEET NUMBER

E-3

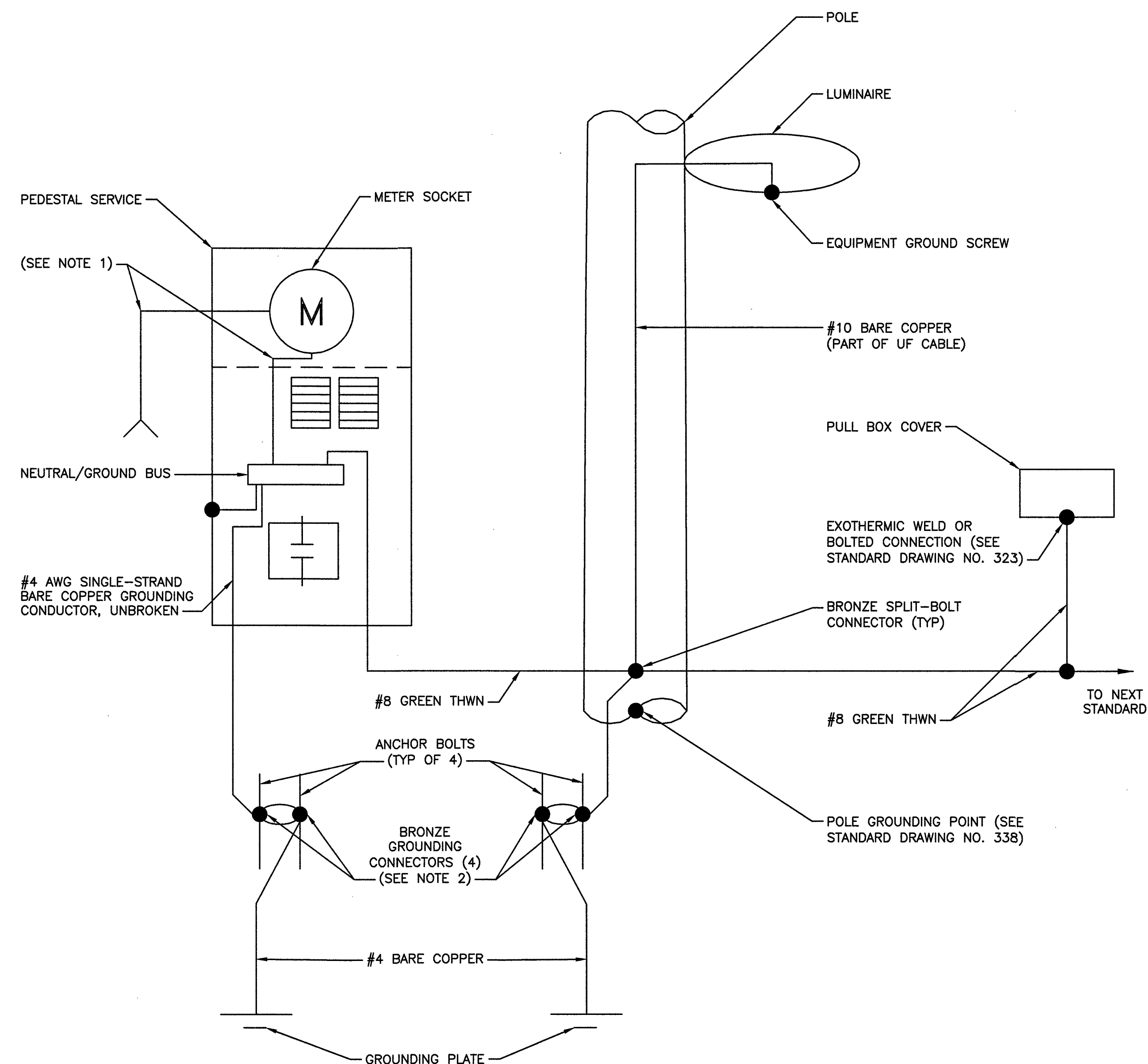
ELECTRICAL ONE-LINE DIAGRAM (PICO)

NO SCALE

1

NO SCALE

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.

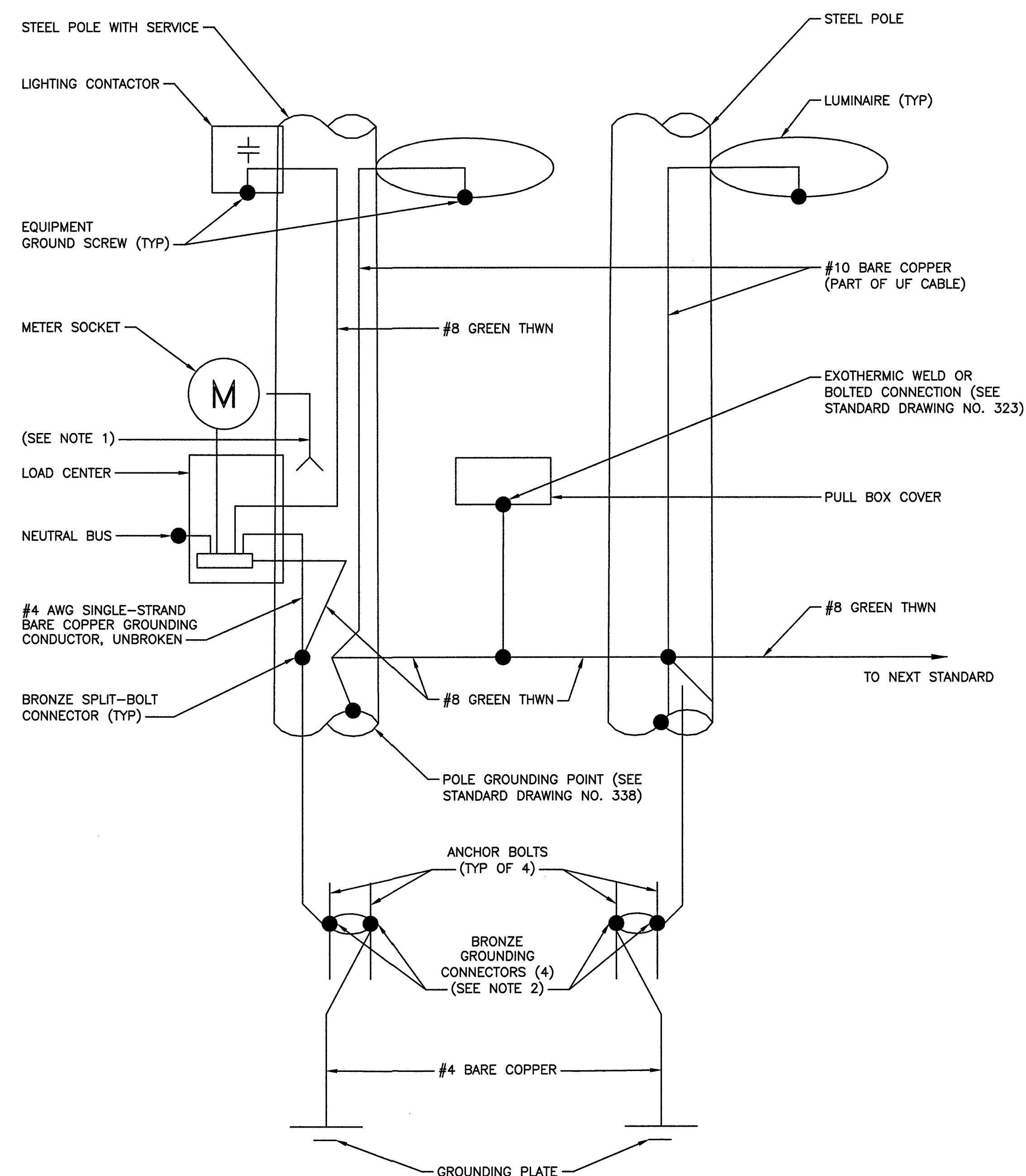


METER PEDESTAL GROUNDING DIAGRAM

NO SCALE

1

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



POLE EQUIPMENT GROUNDING DIAGRAM

NO SCALE

2



AT&T MOBILITY
10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

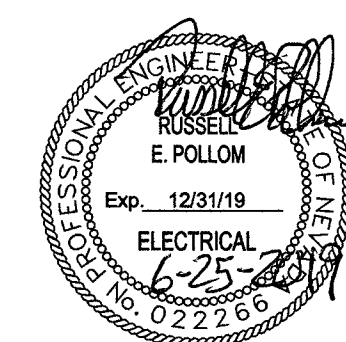
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO:	129084.1486
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DRAWN BY:	TPG
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CHECKED BY:	GAC
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NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE

GROUNDING DIAGRAMS

SHEET NUMBER

G-1

17/

1. FOR THE PURPOSE OF CONSTRUCTION DRAWINGS, THE FOLLOWING DEFINITIONS SHALL APPLY:
GENERAL CONTRACTOR – OVERLAND CONTRACTING INC. (B&V)
SUBCONTRACTOR – CONTRACTOR (CONSTRUCTION)
OWNER – AT&T
2. ALL SITE WORK SHALL BE COMPLETED AS INDICATED ON THE DRAWINGS.
3. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL VISIT THE SITE AND SHALL BECOME FAMILIAR WITH ALL CONDITIONS AFFECTING THE PROPOSED WORK AND SHALL MAKE PROVISIONS. GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL BE RESPONSIBLE FOR FAMILIARIZING HIMSELF WITH ALL CONTRACT DOCUMENTS, FIELD CONDITIONS, DIMENSIONS, AND CONFIRMING THAT THE WORK MAY BE ACCOMPLISHED AS SHOWN PRIOR TO PROCEEDING WITH CONSTRUCTION. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORK.
4. ALL MATERIALS FURNISHED AND INSTALLED SHALL BE IN STRICT ACCORDANCE WITH ALL APPLICABLE CODES, REGULATIONS, AND ORDINANCES. GENERAL CONTRACTOR SHALL ISSUE ALL APPROPRIATE NOTICES AND COMPLY WITH ALL LAWS, ORDINANCES, RULES, REGULATIONS, AND LAWFUL ORDERS OF ANY PUBLIC AUTHORITY REGARDING THE PERFORMANCE OF WORK.
5. ALL WORK CARRIED OUT SHALL COMPLY WITH ALL APPLICABLE MUNICIPAL AND UTILITY COMPANY SPECIFICATIONS AND LOCAL JURISDICTIONAL CODES, ORDINANCES, AND APPLICABLE REGULATIONS.
6. UNLESS NOTED OTHERWISE, THE WORK SHALL INCLUDE FURNISHING MATERIALS, EQUIPMENT, APPURTENANCES, AND LABOR NECESSARY TO COMPLETE ALL INSTALLATIONS AS INDICATED ON THE DRAWINGS.
7. PLANS ARE NOT TO BE SCALED. THESE PLANS ARE INTENDED TO BE A DIAGRAMMATIC OUTLINE ONLY UNLESS OTHERWISE NOTED. DIMENSIONS SHOWN ARE TO FINISH SURFACES UNLESS OTHERWISE NOTED. SPACING BETWEEN EQUIPMENT IS THE MINIMUM REQUIRED CLEARANCE. THEREFORE, IT IS CRITICAL TO FIELD VERIFY DIMENSIONS, SHOULD THERE BE ANY QUESTIONS REGARDING THE CONTRACT DOCUMENTS, THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A CLARIFICATION FROM THE ENGINEER PRIOR TO PROCEEDING WITH THE WORK. DETAILS ARE INTENDED TO SHOWN DESIGN INTENT. MODIFICATIONS MAY BE REQUIRED TO SUIT JOB DIMENSIONS OR CONDITIONS AND SUCH MODIFICATIONS SHALL BE INCLUDED AS PART OF WORK AND PREPARED BY THE ENGINEER PRIOR TO PROCEEDING WITH WORK.
8. THE SUBCONTRACTOR SHALL INSTALL ALL EQUIPMENT AND MATERIALS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS UNLESS SPECIFICALLY STATED OTHERWISE.
9. IF THE SPECIFIED EQUIPMENT CANNOT BE INSTALLED AS SHOWN ON THESE DRAWINGS, THE SUBCONTRACTOR SHALL PROPOSE AN ALTERNATIVE INSTALLATION SPACE FOR APPROVAL BY THE ENGINEER AND DSA PRIOR TO PROCEEDING.
10. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF WORK AREA, ADJACENT AREAS AND BUILDING OCCUPANTS THAT ARE LIKELY TO BE AFFECTED BY THE WORK UNDER THIS CONTRACT. WORK SHALL CONFORM TO ALL OSHA REQUIREMENTS AND THE LOCAL JURISDICTION.
11. GENERAL CONTRACTOR SHALL COORDINATE WORK AND SCHEDULE WORK ACTIVITIES WITH OTHER DISCIPLINES.
12. ERECTION SHALL BE DONE IN A WORKMANLIKE MANNER BY COMPETENT EXPERIENCED WORKMAN IN ACCORDANCE WITH APPLICABLE CODES AND THE BEST ACCEPTED PRACTICE. ALL MEMBERS SHALL BE LAID PLUMB AND TRUE AS INDICATED ON THE DRAWINGS.
13. SEAL ANY PENETRATION WITH UL LISTED MATERIALS APPROVED BY LOCAL JURISDICTION. SUBCONTRACTOR SHALL KEEP AREA CLEAN, HAZARD FREE, AND DISPOSE OF ALL DEBRIS.
14. WORK PREVIOUSLY COMPLETED IS REPRESENTED BY LIGHT SHADED LINES AND NOTES. THE SCOPE OF WORK FOR THIS PROJECT IS REPRESENTED BY DARK SHADED LINES AND NOTES. SUBCONTRACTOR SHALL NOTIFY THE GENERAL CONTRACTOR OF ANY EXISTING CONDITIONS THAT DEVIATE FROM THE DRAWINGS PRIOR TO BEGINNING CONSTRUCTION.
15. SUBCONTRACTOR SHALL PROVIDE WRITTEN NOTICE TO THE CONSTRUCTION MANAGER 48 HOURS PRIOR TO COMMENCEMENT OF WORK.
16. THE SUBCONTRACTOR SHALL PROTECT EXISTING IMPROVEMENTS, PAVEMENTS, CURBS, LANDSCAPING AND STRUCTURES. ANY DAMAGED PART SHALL BE REPAIRED AT SUBCONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE OWNER.
17. THE SUBCONTRACTOR SHALL CONTACT UTILITY LOCATING SERVICES PRIOR TO THE START OF CONSTRUCTION.
18. GENERAL CONTRACTOR SHALL COORDINATE AND MAINTAIN ACCESS FOR ALL TRADES AND SUBCONTRACTORS TO THE SITE AND/OR BUILDING.
19. THE GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR SECURITY OF THE SITE FOR THE DURATION OF CONSTRUCTION UNTIL JOB COMPLETION.
20. THE GENERAL CONTRACTOR SHALL MAINTAIN IN GOOD CONDITION ONE COMPLETE SET OF PLANS WITH ALL REVISIONS, ADDENDA, AND CHANGE ORDERS ON THE PREMISES AT ALL TIMES.
21. THE GENERAL CONTRACTOR AND SUBCONTRACTOR SHALL PROVIDE PORTABLE FIRE EXTINGUISHERS WITH A RATING OF NOT LESS THAN 2-A OT 2-A:10-B-C AND SHALL BE WITHIN 25 FEET OF TRAVEL DISTANCE TO ALL PORTIONS OF WHERE THE WORK IS BEING COMPLETED DURING CONSTRUCTION.
22. ALL EXISTING ACTIVE SEWER, WATER, GAS, ELECTRIC, AND OTHER UTILITIES SHALL BE PROTECTED AT ALL TIMES, AND WHERE REQUIRED FOR THE PROPER EXECUTION OF THE WORK, SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER. EXTREME CAUTION SHOULD BE USED BY THE SUBCONTRACTOR WHEN EXCAVATING OR DRILLING PIERS AROUND OR NEAR UTILITIES. SUBCONTRACTOR SHALL PROVIDE SAFETY TRAINING FOR THE WORKING CREW. THIS SHALL INCLUDE BUT NOT BE LIMITED TO A) FALL PROTECTION, B) CONFINED SPACE, C) ELECTRICAL SAFETY, AND D) TRENCHING & EXCAVATION.
23. ALL EXISTING INACTIVE SEWER, WATER, GAS, ELECTRIC AND OTHER UTILITIES, WHICH INTERFERE WITH THE EXECUTION OF THE WORK, SHALL BE REMOVED, CAPPED, PLUGGED OR OTHERWISE DISCONNECTED AT POINTS WHICH WILL NOT INTERFERE WITH THE EXECUTION OF THE WORK, AS DIRECTED BY THE RESPONSIBLE ENGINEER, AND SUBJECT TO THE APPROVAL OF THE OWNER AND/OR LOCAL UTILITIES.
24. THE AREAS OF THE OWNER'S PROPERTY DISTURBED BY THE WORK AND NOT COVERED BY THE TOWER, EQUIPMENT OR DRIVEWAY, SHALL BE GRADED TO A UNIFORM SLOPE, AND STABILIZED TO PREVENT EROSION.
25. SUBCONTRACTOR SHALL MINIMIZE DISTURBANCE TO THE EXISTING SITE DURING CONSTRUCTION. EROSION CONTROL MEASURES, IF REQUIRED DURING CONSTRUCTION, SHALL BE IN CONFORMANCE WITH THE FEDERAL AND LOCAL JURISDICTION FOR EROSION AND SEDIMENT CONTROL.
26. NO FILL OR EMBANKMENT MATERIAL SHALL BE PLACED ON FROZEN GROUNDING. FROZEN MATERIALS, SNOW OR ICE SHALL NOT BE PLACED IN ANY FILL OR EMBANKMENT.
27. THE SUBGRADE SHALL BE BROUGHT TO A SMOOTH UNIFORM GRADE AND COMPACTED TO 95 PERCENT STANDARD PROCTOR DENSITY UNDER PAVEMENT AND STRUCTURES AND 80 PERCENT STANDARD PROCTOR DENSITY IN OPEN SPACE. ALL TRENCHES IN PUBLIC RIGHT OF WAY SHALL BE BACKFILLED WITH FLOWABLE FILL OR OTHER MATERIAL PRE-APPROVED BY THE LOCAL JURISDICTION.
28. ALL NECESSARY RUBBISH, STUMPS, DEBRIS, STICKS, STONES, AND OTHER REFUSE SHALL BE REMOVED FROM THE SITE AND DISPOSED OF IN A LAWFUL MANNER.
29. ALL BROCHURES, OPERATING AND MAINTENANCE MANUALS, CATALOGS, SHOP DRAWINGS, AND OTHER DOCUMENTS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR AT COMPLETION OF CONSTRUCTION AND PRIOR TO PAYMENT.
30. CONTRACTOR SHALL SUBMIT A COMPLETE SET OF AS-BUILT REDLINES TO THE GENERAL CONTRACTOR UPON COMPLETION OF PROJECT AND PRIOR TO FINAL PAYMENT.
31. CONTRACTOR SHALL LEAVE PREMISES IN A CLEAN CONDITION.
32. THE PROPOSED FACILITY WILL BE UNMANNED AND DOES NOT REQUIRE POTABLE WATER OR SEWER SERVICE, AND IS NOT FOR HUMAN HABITAT (NO HANDICAP ACCESS REQUIRED).
33. OCCUPANCY IS LIMITED TO PERIODIC MAINTENANCE AND INSPECTION, APPROXIMATELY 2 TIMES PER MONTH, BY AT&T TECHNICIANS.
34. NO OUTDOOR STORAGE OR SOLID WASTE CONTAINERS ARE PROPOSED.
35. ALL MATERIAL SHALL BE FURNISHED AND WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST REVISION AT&T MOBILITY GROUNDING STANDARD "TECHNICAL SPECIFICATION FOR CONSTRUCTION OF GSM/GPRS WIRELESS SITES" AND "TECHNICAL SPECIFICATION FOR FACILITY GROUNDING". IN CASE OF A CONFLICT BETWEEN THE CONSTRUCTION SPECIFICATION AND THE DRAWINGS, THE DRAWINGS SHALL GOVERN.
36. CONTRACTORS SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS REQUIRED FOR CONSTRUCTION. IF CONTRACTOR CANNOT OBTAIN A PERMIT, THEY MUST NOTIFY THE GENERAL CONTRACTOR IMMEDIATELY.
37. CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE ON A DAILY BASIS.
38. INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM SITE VISITS AND/OR DRAWINGS PROVIDED BY THE SITE OWNER. CONTRACTORS SHALL NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO ORDERING MATERIAL OR PROCEEDING WITH CONSTRUCTION.
39. NO WHITE STROBE LIGHTS ARE PERMITTED. LIGHTING IF REQUIRED, WILL MEET FAA STANDARDS AND REQUIREMENTS.
40. ALL COAXIAL CABLE INSTALLATIONS TO FOLLOW MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS.
41. CONTRACTOR TO ENSURE LOCATES ARE COMPLETED PRIOR TO DIGGING IN THE ROW. IF UTILITIES ARE INDICATED WITHIN 3 FEET OF THE PROPOSED ROUTE, OR IF CROSSING EXISTING UTILITY, CONTRACTOR TO POT HOLE EXISTING UTILITY TO DETERMINE DEPTH AND EXACT LOCATION PRIOR TO CONSTRUCTION. IF UTILITY IS DAMAGED DURING THE INSTALLATION OF THE NEW CONDUIT, IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO CONTACT THE UTILITY IMMEDIATELY AND IT IS ALSO THE CONTRACTORS RESPONSIBILITY TO HAVE ANY DAMAGE FIXED AND/OR REPAIRED PRIOR TO CLOSING THE EXCAVATION.

GENERAL NOTES

EXOTHERMIC CONNECTION

MECHANICAL CONNECTION

CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

TEST CHEMICAL ELECTROLYTIC GROUNDING SYSTEM

EXOTHERMIC WITH INSPECTION SLEEVE

GROUNDING BAR

GROUND ROD

TEST GROUND ROD WITH INSPECTION SLEEVE

SINGLE POLE SWITCH

DUPLEX RECEPTACLE

DUPLEX GFCI RECEPTACLE

FLUORESCENT LIGHTING FIXTURE
(2) TWO LAMPS 48-T8

SMOKE DETECTION (DC)

EMERGENCY LIGHTING (DC)

SECURITY LIGHT W/PHOTOCELL LITHONIA ALXW
LED-1-25A400/51K-SR4-120-PE-DDBTXD

CHAIN LINK FENCE

WOOD/WROUGHT IRON FENCE

WALL STRUCTURE

LEASE AREA

PROPERTY LINE (PL)

SETBACKS

ICE BRIDGE

CABLE TRAY

WATER LINE

UNDERGROUND POWER

UNDERGROUND TELCO

OVERHEAD POWER

OVERHEAD TELCO

UNDERGROUND TELCO/POWER

ABOVE GROUND POWER

ABOVE GROUND TELCO

ABOVE GROUND TELCO/POWER

ABOVE GROUND FIBER

ABOVE GROUND FIBER/POWER

UNDERGROUND FIBER

UNDERGROUND FIBER/POWER

UNDERGROUND DUCT

ABOVE GROUND POWER/AC

ABOVE GROND POWER/DC

SECTION REFERENCE

DETAIL REFERENCE

ELEVATION REFERENCE

BREAKLINE

LEGEND

AB ANCHOR BOLT

ABV ABOVE

AC ALTERNATING CURRENT

ADDL ADDITIONAL

AFF ABOVE FINISHED FLOOR

AFG ABOVE FINISHED GRADE

AIC AMPERAGE INTERRUPTION CAPACITY

ALUM ALUMINUM

ALT ALTERNATE

ANT ANTENNA

APPROX APPROXIMATE

ARCH ARCHITECTURAL

ATS AUTOMATIC TRANSFER SWITCH

AWG AMERICAN WIRE GAUGE

BATT BATTERY

BLDG BUILDING

BLK BLOCK

BLKG BLOCKING

BM BEAM

BTC BARE TINNED COPPER CONDUCTOR

BOF BOTTOM OF FOOTING

CAB CABINET

CANT CANTILEVERED

CEC CALIFORNIA ELECTRIC CODE

CHG CHARGING

CLG CEILING

CLR CLEAR

COL COLUMN

COMM COMMON

CONC CONCRETE

CONSTR CONSTRUCTION

DBL DOUBLE

DC DIRECT CURRENT

DEPT DEPARTMENT

DF DOUGLAS FIR

DIA DIAMETER

DIAG DIAGONAL

DIM DIMENSION

DWG DRAWING

DWL DOWEL

(E) EXISTING

EA EACH

EC ELECTRICAL CONDUCTOR

EL ELEVATION

ELEC ELECTRICAL

EMT ELECTRICAL METALLIC TUBING

ENG ENGINEER

EQ EQUAL

EXP EXPANSION

EXT EXTERIOR

FAB FABRICATION

FF FINISH FLOOR

FG FINISH GRADE

FIF FACILITY INTERFACE FRAME

FIN FINISH(ED)

FLR FLOOR

FDN FOUNDATION

FOC FACE OF CONCRETE

FOM FACE OF MASONRY

FOS FACE OF STUD

FOW FACE OF WALL

FS FINISH SURFACE

FT FOOT

FTG FOOTING

GA GAUGE

GEN GENERATOR

GFCI GROUND FAULT CIRCUIT INTERRUPTER

GLB GLUE LAMINATED BEAM

GLV GALVANIZED

GPS GLOBAL POSITIONING SYSTEM

GND GROUND

GSM GLOBAL SYSTEM FOR MOBILE

HDR HEADER

HGR HANGER

HVAC HEAT/VENTILATION/AIR CONDITIONING

HT HEIGHT

IGR INTERIOR GROUND RING

IN INCH

INT

LB(S)

LF

LTE LONG TERM EVOLUTION

MAS

MAX

MB MACHINE BOLT

MECH

MFR

MGB MASTER GROUND BAR

MIN

MISC MISCELLANEOUS

MTL

MTS MANUAL TRANSFER SWITCH

MW

(N)

NEW

NEC NATIONAL ELECTRIC CODE

NO.(#)

NTS

OC

OPNG

(P)

PROPOSED

P/C

PRECAST CONCRETE

PCS

PERSONAL COMMUNICATION SERVICES

PCU

PRIMARY CONTROL UNIT

PRC

PRIMARY RADIO CABINET

PP

POLARIZING PRESERVING

PSF

POUNDS PER SQUARE FOOT

PSI

POUNDS PER SQUARE INCH

PT

PRESSURE TREATED

PWR

POWER CABINET

QTY

QUANTITY

RAD

RADIUS

RECT

RECTIFIER

REF

REFERENCE

REINF

REINFORCEMENT

REQ'D

REQUIRED

RET

REMOTE ELECTRIC TILT

RMC

RIGID METALLIC CONDUIT

RRH

REMOTE RADIO HEAD

RRU

REMOTE RADIO UNIT

RWY

RACEWAY

SCH

SCHEDULE

SHT

SHEET

SIAD

SMART INTEGRATED DEVICE

SIM

SIMILAR

SPEC

SPECIFICATION

SQ

SQUARE

SS

STAINLESS STEEL

STD

STANDARD

STL

STEEL

STRUCT

STRUCTURAL

TEMP

TEMPORARY

THK

THICKNESS

TMA

TOWER MOUNTED AMPLIFIER

TN

TOE NAIL

TOA

TOP OF ANTENNA

TOC

TOP OF CURB

TOF

TOP OF FOUNDATION

TOP

TOP OF PLATE (PARAPET)

TOS

TOP OF STEEL

TOW

TOP OF WALL

TVSS

TRANSIENT VOLTAGE SUPPRESSION SYSTEM

TYP

TYPICAL

UG

UNDERGROUND

UL

UNDERWRITERS LABORATORY

UNO

UNLESS NOTED OTHERWISE

UMTS

UNIVERSAL MOBILE TELECOMMUNICATIONS SYSTEM

UPS

UNINTERRUPTIBLE POWER SYSTEM (DC POWER PLANT)

VIF

VERIFIED IN FIELD

W

WIDE

W/

WITH

WD

WOOD

PART 1 — GENERAL

1.1 GENERAL CONDITIONS:

- A. CONTRACTOR SHALL INSPECT THE EXISTING SITE CONDITIONS PRIOR TO SUBMITTING BID. ANY QUESTIONS ARISING DURING THE BID PERIOD IN REGARDS TO THE SUBCONTRACTORS FUNCTIONS, THE SCOPE OF WORK, OR ANY OTHER ISSUE RELATED TO THIS PROJECT SHALL BE BROUGHT UP DURING THE BID PERIOD WITH THE PROJECT MANAGER FOR CLARIFICATION, NOT AFTER THE CONTRACT HAS BEEN AWARDED.
- B. THE SUBCONTRACTOR SHALL OBTAIN PERMITS, LICENSES, MAKE ALL DEPOSITS, AND PAY ALL FEES REQUIRED FOR THE CONSTRUCTION PERFORMANCE FOR THE WORK UNDER THIS SECTION.
- C. DRAWINGS SHOW THE GENERAL ARRANGEMENT OF ALL SYSTEMS AND COMPONENTS COVERED UNDER THIS SECTION. THE SUBCONTRACTOR SHALL VERIFY ALL DIMENSIONS. DRAWING SHALL NOT BE SCALED TO DETERMINE DIMENSIONS.

1.2 LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES.

- A. ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE 2013 EDITION OF THE CALIFORNIA ELECTRICAL CODE, AND ALL APPLICABLE LOCAL LAWS, REGULATIONS, ORDINANCES, STATUTES AND CODES. CONDUIT BENDS SHALL BE THE RADIUS BEND FOR THE TRADE SIZE OF CONDUIT IN COMPLIANCE WITH THE 2013 EDITION OF CEC.

1.3 REFERENCES:

- A. THE PUBLICATIONS LISTED BELOW ARE PART OF THIS SPECIFICATION. EACH PUBLICATION SHALL BE THE LATEST REVISION AND ADDENDUM IN EFFECT ON THE DATE. THIS SPECIFICATION IS ISSUED FOR CONSTRUCTION UNLESS OTHERWISE NOTED. EXCEPT AS MODIFIED BY THE REQUIREMENT SPECIFIED HEREIN OR THE DETAILS OF THE DRAWINGS, WORK INCLUDED IN THIS SPECIFICATION SHALL CONFORM TO THE APPLICABLE PROVISION OF THESE PUBLICATIONS.
1. ANSI/IEEE (AMERICAN NATIONAL STANDARDS INSTITUTE)
 2. ASTM (AMERICAN SOCIETY FOR TESTING AND MATERIALS)
 3. ICE (INSULATED CABLE ENGINEERS ASSOCIATION)
 4. NEMA (NATIONAL ELECTRICAL MANUFACTURER'S ASSOCIATION)
 5. NFPA (NATIONAL FIRE PROTECTION ASSOCIATION)
 6. OSHA (OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION)
 7. UL (UNDERWRITERS LABORATORIES, INC.)
 8. AT&T GROUNDING AND BONDING STANDARDS TP-76416

1.4 SCOPE OF WORK:

- A. WORK UNDER THIS SECTION SHALL CONSIST OF FURNISHING ALL LABOR, MATERIAL, AND ASSOCIATED SERVICES REQUIRED TO COMPLETE REQUIRED CONSTRUCTION AND BE OPERATIONAL.
- B. ALL ELECTRICAL EQUIPMENT UNDER THIS CONTRACT SHALL BE PROPERLY TESTED, ADJUSTED, AND ALIGNED BY THE SUBCONTRACTOR
- C. THE SUBCONTRACTOR SHALL BE RESPONSIBLE FOR ALL EXCAVATING, DRAINING, TRENCHES, BACKFILLING, AND REMOVAL OF EXCESS DIRT.
- D. THE SUBCONTRACTOR SHALL FURNISH TO THE OWNER WITH CERTIFICATES OF A FINAL INSPECTION AND APPROVAL FROM THE INSPECTION AUTHORITIES HAVING JURISDICTION.
- E. THE SUBCONTRACTOR SHALL PREPARE A COMPLETE SET OF AS-BUILT DRAWINGS, DOCUMENT ALL WIRING EQUIPMENT CONDITIONS, AND CHANGES WHILE COMPLETING THIS CONTRACT. THE AS-BUILT DRAWINGS SHALL BE SUBMITTED AT COMPLETION OF THE PROJECT.

PART 2 — PRODUCTS

2.1 GENERAL:

- A. ALL MATERIALS AND EQUIPMENT SHALL BE UL LISTED, NEW, AND FREE FROM DEFECTS.
- B. ALL ITEMS OF MATERIALS AND EQUIPMENT SHALL BE ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION AS SUITABLE FOR THE USE INTENDED.
- C. ALL EQUIPMENT SHALL BEAR THE UNDERWRITERS LABORATORIES LABEL OF APPROVAL, AND SHALL CONFORM TO REQUIREMENT OF THE CALIFORNIA ELECTRICAL CODE.
- D. ALL OVERCURRENT DEVICES SHALL HAVE AN INTERRUPTING CURRENT RATING EQUAL TO OR GREATER THAN THE SHORT CIRCUIT CURRENT TO WHICH THEY ARE SUBJECTED, 10,000 AIC MINIMUM. VERIFY AVAILABLE SHORT CIRCUIT CURRENT DOES NOT EXCEED THE RATING OF ELECTRICAL EQUIPMENT.

2.2 MATERIALS AND EQUIPMENT:

- A. CONDUIT:
1. RIGID METAL CONDUIT (RMC) SHALL BE HOT-DIPPED GALVANIZED INSIDE AND OUTSIDE INCLUDING ENDS AND THREADS AND ENAMELED OR LACQUERED INSIDE IN ADDITION TO GALVANIZING.
 2. LIQUIDTIGHT FLEXIBLE METAL CONDUIT SHALL BE UL LISTED.
 3. CONDUIT CLAMPS, STRAPS AND SUPPORTS SHALL BE STEEL OR MALLEABLE IRON. ALL FITTINGS SHALL BE COMPRESSION AND CONCRETE TIGHT TYPE. GROUNDING BUSHINGS WITH INSULATED THROATS SHALL BE INSTALLED ON ALL CONDUIT TERMINATIONS.
 4. NONMETALLIC CONDUIT AND FITTINGS SHALL BE SCHEDULE 40 PVC. INSTALL USING SOLVENT-CEMENT-TYPE JOINTS AS RECOMMENDED BY THE MANUFACTURER.
- B. CONDUCTORS AND CABLE:
1. CONDUCTORS AND CABLE SHALL BE FLAME-RETARDANT, MOISTURE AND HEAT RESISTANT THERMOPLASTIC, SINGLE CONDUCTOR, COPPER, TYPE THHN/THWN-2, 600 VOLT, SIZE AS INDICATED, #12 AWG SHALL BE THE MINIMUM SIZE CONDUCTOR USED.
 2. #10 AWG AND SMALLER CONDUCTOR SHALL BE SOLID OR STRANDED AND #8 AWG AND LARGER CONDUCTORS SHALL BE STRANDED.
 3. SOLDERLESS, COMPRESSION-TYPE CONNECTORS SHALL BE USED FOR TERMINATION OF ALL STRANDED CONDUCTORS.
 4. STRAIN-RELIEF SUPPORTS GRIPS SHALL BE HUBBELL KELLEMS OR APPROVED EQUAL. CABLES SHALL BE SUPPORTED IN ACCORDANCE WITH THE NEC AND CABLE MANUFACTURER'S RECOMMENDATIONS.
5. ALL CONDUCTORS SHALL BE TAGGED AT BOTH ENDS OF THE CONDUCTOR, AT ALL PULL BOXES, J-BOXES, EQUIPMENT AND CABINETS AND SHALL BE IDENTIFIED WITH APPROVED PLASTIC TAGS (ACTION CRAFT, BRADY, OR APPROVED EQUAL).
- C. DISCONNECT SWITCHES:
1. DISCONNECT SWITCHES SHALL BE HEAVY DUTY, DEAD-FRONT, QUICK-MAKE, QUICK-BREAK, EXTERNALLY OPERABLE, HANDLE LOCKABLE AND INTERLOCK WITH COVER IN CLOSED POSITION, RATING AS INDICATED, UL LABELED FURNISHED IN NEMA 3R ENCLOSURE, SQUARE-D OR ENGINEERED APPROVED EQUAL.
- D. CHEMICAL ELECTROLYTIC GROUNDING SYSTEM:
1. INSTALL CHEMICAL GROUNDING AS REQUIRED. THE SYSTEM SHALL BE ELECTROLYTIC MAINTENANCE FREE ELECTRODE CONSISTING OF RODS WITH A MINIMUM #2 AWG CU EXOTHERMALLY WELDED PIGTAIL, PROTECTIVE BOXES, AND BACKFILL MATERIAL. MANUFACTURER SHALL BE LYNCOLE XIT GROUNDING ROD TYPES K2-(*)CS OR K2L-(*)CS. (*) 10' OR 20' AS AVAILABLE FROM MANUFACTURER, BUT NOT LESS THAN 8' MIN [REQUIRED PER CEC 250.52 A (5)].

2. GROUND ACCESS BOX SHALL BE A POLYPLASTIC BOX FOR NON-TRAFFIC APPLICATIONS, INCLUDING BOLT DOWN FLUSH COVER WITH "BREATHER" HOLES, XIT MODEL #XB-22. ALL DISCONNECT SWITCHES AND CONTROLLING DEVICES SHALL BE PROVIDED WITH ENGRAVED LAMICOID NAMEPLATES INDICATING EQUIPMENT CONTROLLED, BRANCH CIRCUITS ID NUMBERING, AND THE ELECTRICAL POWER SOURCE.
 3. BACKFILL MATERIAL SHALL BE LYNCONITE AND LYNCOLE GROUNDING GRAVEL.
- E. SYSTEM GROUNDING:
1. ALL GROUNDING COMPONENTS SHALL BE TINNED AND GROUNDING CONDUCTOR SHALL BE #2 AWG BARE, SOLID, TINNED, COPPER. ABOVE GRADE GROUNDING CONDUCTORS SHALL BE INSULATED WHERE NOTED.
 2. GROUNDING BUSES SHALL BE BARE, TINNED, ANNEALED COPPER BARS OF RECTANGULAR CROSS SECTION. STANDARD BUS BARS MGB, SHALL BE FURNISHED AND INSTALLED BY THE SUBCONTRACTOR. THEY SHALL NOT BE FABRICATED OR MODIFIED IN THE FIELD. ALL GROUNDING BUSES SHALL BE IDENTIFIED WITH MINIMUM 3/4" LETTERS BY WAY OF STENCILING OR DESIGNATION PLATE.
 3. CONNECTORS SHALL BE HIGH-CONDUCTIVITY, HEAVY DUTY, LISTED AND LABELED AS GROUNDING CONNECTORS FOR THE MATERIALS USED. USE TWO-HOLE COMPRESSION LUGS WITH HEAT SHRINK FOR MECHANICAL CONNECTIONS. INTERIOR CONNECTIONS USE TWO-HOLE COMPRESSION LUGS WITH INSPECTION WINDOW AND CLEAR HEAT SHRINK.
 4. EXOTHERMIC WELDED CONNECTIONS SHALL BE PROVIDED IN KIT FORM AND SELECTED FOR THE SPECIFIC TYPES, SIZES, AND COMBINATIONS OF CONDUCTORS AND OTHER ITEMS TO BE CONNECTED.
 5. GROUND RODS SHALL BE COPPER-CLAD STEEL WITH HIGH-STRENGTH STEEL CORE AND ELECTROLYTIC-GRADE COPPER OUTER SHEATH, MOLTEN WELDED TO CORE, 5/8"x10'-0". ALL GROUNDING RODS SHALL BE INSTALLED WITH INSPECTION SLEEVES.
 6. INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS IN COMPLIANCE WITH THE AT&T SPECIFICATIONS AND CEC. THE EQUIPMENT GROUNDING CONDUCTORS SHALL BE BONDED AT ALL JUNCTION BOXES, PULLBOXES, DISCONNECT SWITCHES, STARTERS, AND EQUIPMENT CABINETS.
- F. OTHER MATERIALS:
1. THE SUBCONTRACTOR SHALL PROVIDE OTHER MATERIALS, THOUGH NOT SPECIFICALLY DESCRIBED, WHICH ARE REQUIRED FOR A COMPLETELY OPERATIONAL SYSTEM AND PROPER INSTALLATION OF THE WORK.
 2. PROVIDE PULL BOXES AND JUNCTION BOXES WHERE SHOWN OR REQUIRED BY CEC.
- G. PANELS AND LOAD CENTERS:
1. ALL PANEL DIRECTORIES SHALL BE TYPEWRITTEN.

PART 3 — EXECUTION

3.1 GENERAL:

- A. ALL MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND AS SHOWN ON DSA APPROVED DWG'S.
- B. EQUIPMENT SHALL BE TIGHTLY COVERED AND PROTECTED AGAINST DIRT OR WATER, AND AGAINST CHEMICAL OR MECHANICAL INJURY DURING INSTALLATION AND CONSTRUCTION PERIODS.

3.2 LABOR AND WORKMANSHIP:

- A. ALL LABOR FOR THE INSTALLATION OF MATERIALS AND EQUIPMENT FURNISHED FOR THE ELECTRICAL SYSTEM SHALL BE INSTALLED BY EXPERIENCED WIREMEN, IN A NEAT AND WORKMAN-LIKE MANNER.
- B. ALL ELECTRICAL EQUIPMENT SHALL BE ADJUSTED, ALIGNED AND TESTED BY THE SUBCONTRACTOR AS REQUIRED TO PRODUCE THE INTENDED PERFORMANCE.
- C. UPON COMPLETION OF WORK, THE SUBCONTRACTOR SHALL THOROUGHLY CLEAN ALL EXPOSED EQUIPMENT, REMOVE ALL LABELS AND ANY DEBRIS, CRATING OR CARTONS AND LEAVE THE INSTALLATION FINISHED AND READY FOR OPERATION.

3.3 COORDINATION:

- A. THE SUBCONTRACTOR SHALL COORDINATE THE INSTALLATION OF ELECTRICAL ITEMS WITH THE OWNER-FURNISHED EQUIPMENT DELIVERY SCHEDULE TO PREVENT UNNECESSARY DELAYS IN THE TOTAL WORK.

3.4 INSTALLATION:

- A. CONDUIT:
1. ALL ELECTRICAL WIRING SHALL BE INSTALLED IN CONDUIT AS SPECIFIED. NO CONDUIT OR TUBING OF LESS THAN 3/4 INCH TRADE SIZE.
 2. PROVIDE RIGID PVC SCHEDULE 80 CONDUITS FOR ALL RISERS, RMC OTHERWISE NOTED. EMT MAY BE INSTALLED FOR EXTERIOR CONDUITS WHERE NOT SUBJECT TO PHYSICAL DAMAGE.
 3. THE INSTALLATION OF SCHEDULE 40 PVC AND RMC CONDUITS SHALL BE 24 INCHES MINIMUM DEPTH. ALL 90 DEGREE BENDS SHALL BE RMC. EXPANSION JOINTS ARE REQUIRED ON ALL CONDUIT RISERS.
 4. USE GALVANIZED FLEXIBLE STEEL CONDUIT WHERE DIRECT CONNECTION TO EQUIPMENT WITH MOVEMENT, VIBRATION, OR FOR EASE OF MAINTENANCE. USE LIQUID TIGHT, FLEXIBLE METAL CONDUIT FOR OUTDOOR APPLICATIONS. INSTALL GALVANIZED FLEXIBLE STEEL CONDUIT AT ALL POINTS OF CONNECTION TO EQUIPMENT MOUNTED ON SUPPORT TO ALLOW FOR EXPANSION AND CONTRACTION.
 5. A RUN OF CONDUIT BETWEEN BOXES OR EQUIPMENT SHALL NOT CONTAIN MORE THAN THE EQUIVALENT OF THREE QUARTER-BENDS. CONDUIT BEND SHALL BE MADE WITH THE UL LISTED BENDER OR FACTORY 90 DEGREE ELBOWS MAY BE USED.
 6. FIELD FABRICATED CONDUITS SHALL BE CUT SQUARE WITH A CONDUIT CUTTING TOOL AND REAMED TO PROVIDE A SMOOTH INSIDE SURFACE.
 7. PROVIDE INSULATED GROUNDING BUSHING FOR ALL CONDUITS.
 8. SUBCONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL CONDUITS DURING CONSTRUCTION. TEMPORARY OPENINGS IN THE CONDUIT SYSTEM SHALL BE PLUGGED OR CAPPED TO PREVENT ENTRANCE OF MOISTURE OR FOREIGN MATTER. SUBCONTRACTOR SHALL REPLACE ANY CONDUITS CONTAINING FOREIGN MATERIALS THAT CANNOT BE REMOVED.
 9. ALL CONDUITS SHALL BE SWABBED CLEAN BY PULLING AN APPROPRIATE SIZE MANDREL THROUGH THE CONDUIT BEFORE INSTALLATION OF CONDUCTORS OR CABLES. CONDUIT SHALL BE FREE OF DIRT AND DEBRIS.
 10. INSTALL PULL STRINGS IN ALL CLEAN EMPTY CONDUITS. IDENTIFY PULL STRINGS AT EACH END.
 11. INSTALL 2" HIGHLY VISIBLE AND DETECTABLE TAPE 12" ABOVE ALL UNDERGROUND CONDUITS AND CONDUCTORS.
 12. CONDUITS SHALL BE INSTALLED IN SUCH A MANNER AS TO INSURE AGAINST COLLECTION OF TRAPPED CONDENSATION.
 13. PROVIDE CORE DRILLING AS NECESSARY FOR PENETRATIONS TO ALLOW FOR RACEWAYS AND CABLES TO BE ROUTED THROUGH THE BUILDING. DO NOT PENETRATE STRUCTURAL MEMBERS UNLESS SPECIFICALLY SHOWN ON DSA APPROVED DWG'S. ANY CORING/CUTTING REQUIRED TO COMPLETE THE WORK, BUT NOT SHOWN ON DSA APPROVED DWG'S SHALL BE SUBJECT TO DSA REVIEW AND APPROVAL PRIOR TO BEGINNING ON SUCH WORK. SLEEVES AND/OR PENETRATION SHALL BE EFFECTIVELY SEALED WITH FIRE RATED MATERIAL WHICH SHALL MAINTAIN THE FIRE RATING OF THE WALL OR STRUCTURE. FIRE STOPS AT FLOOR PENETRATIONS SHALL PREVENT PASSAGE OF WATER, SMOKE, FIRE, AND FUMES. ALL MATERIAL SHALL BE UL APPROVED FOR THIS PURPOSE.

B. CONDUCTORS AND CABLE:

1. ALL POWER WIRING SHALL BE COLOR CODED AS FOLLOWS:

DESCRIPTION	208/240/120 VOLT SYSTEMS
PHASE A	BLACK
PHASE B	RED
PHASE C	BLUE
NEUTRAL	WHITE
GROUNDING	GREEN

2. SPLICES SHALL BE MADE ONLY AT OUTLETS, JUNCTION BOXES, OR ACCESSIBLE RACEWAY CONDULETS APPROVED FOR THIS PURPOSE.
3. PULLING LUBRICANTS SHALL BE UL APPROVED. SUBCONTRACTOR SHALL USE NYLON OR HEMP ROPE FOR PULLING CONDUCTOR OR CABLES INTO THE CONDUIT.
4. CABLES SHALL BE NEATLY TRAINED, WITHOUT INTERLACING, AND BE OF SUFFICIENT LENGTH IN ALL BOXES & EQUIPMENT TO PERMIT MAKING A NEAT ARRANGEMENT. CABLES SHALL BE SECURED IN A MANNER TO AVOID TENSION ON CONDUCTORS OR TERMINALS. CONDUCTORS SHALL BE PROTECTED FROM MECHANICAL INJURY AND MOISTURE. SHARP BENDS OVER CONDUIT BUSHINGS IS PROHIBITED. DAMAGED CABLES SHALL BE REMOVED AND REPLACED AT THE SUBCONTRACTOR'S EXPENSE.

C. DISCONNECT SWITCHES:

1. INSTALL DISCONNECT SWITCHES LEVEL AND PLUMB. CONNECT TO WIRING SYSTEM AND GROUNDING SYSTEM AS INDICATED.

D. GROUNDING:

1. ALL METALLIC PARTS OF ELECTRICAL EQUIPMENT WHICH DO NOT CARRY CURRENT SHALL BE GROUNDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE BUILDING MANUFACTURER, AT&T GROUNDING AND BONDING STANDARDS TP-76416, ND-00135, AND THE CALIFORNIA ELECTRICAL CODE (2013 CEC EDITION).
2. PROVIDE ELECTRICAL GROUNDING AND BONDING SYSTEM INDICATED WITH ASSEMBLY OF MATERIALS, INCLUDING GROUNDING ELECTRODES, BONDING JUMPERS AND ADDITIONAL ACCESSORIES AS REQUIRED FOR A COMPLETE INSTALLATION.
3. ALL GROUNDING CONDUCTORS SHALL PROVIDE A STRAIGHT DOWNWARD PATH TO GROUND WITH GRADUAL BEND AS REQUIRED. GROUNDING CONDUCTORS SHALL NOT BE LOOPED OR SHARP BENT. ROUTE GROUNDING CONNECTIONS AND CONDUCTORS TO GROUND IN THE SHORTEST AND STRAIGHTEST PATHS POSSIBLE TO MINIMIZE TRANSIENT VOLTAGE RISES.
4. BUILDINGS AND/OR NEW TOWERS GREATER THAN 75 FEET IN HEIGHT AND WHERE THE MAIN GROUNDING CONDUCTORS ARE REQUIRED TO BE ROUTED TO GRADE, THE SUBCONTRACTOR SHALL ROUTE TWO GROUNDING CONDUCTORS FROM THE ROOFTOP, TOWERS, AND WATER TOWERS GROUNDING RING, TO THE EXISTING GROUNDING SYSTEM. THE GROUNDING CONDUCTORS SHALL NOT BE SMALLER THAN 2/0 AWG COPPER. ROOFTOP GROUNDING RING SHALL BE BONDED TO THE EXISTING GROUNDING SYSTEM, THE BUILDING STEEL COLUMNS, LIGHTNING PROTECTION SYSTEM, AND BUILDING MAIN WATER LINE (FERROUS OR NONFERROUS METAL PIPING ONLY). SEE STANDARD 6.3.2.2.
5. TIGHTEN GROUNDING AND BONDING CONNECTORS, INCLUDING SCREWS AND BOLTS, IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED TORQUE TIGHTENING VALUES FOR CONNECTORS AND BOLTS. WHERE MANUFACTURER'S TORQUING REQUIREMENTS ARE NOT AVAILABLE, TIGHTEN CONNECTIONS TO COMPLY WITH TIGHTENING TORQUE VALUES SPECIFIED IN UL TO ASSURE PERMANENT AND EFFECTIVE GROUNDING.
6. SUBCONTRACTOR SHALL VERIFY THE LOCATIONS OF GROUNDING TIE-IN-POINTS TO THE EXISTING GROUNDING SYSTEM. ALL UNDERGROUND GROUNDING CONNECTIONS SHALL BE MADE BY THE EXOTHERMIC WELD PROCESS AND INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
7. ALL GROUNDING CONNECTIONS SHALL BE INSPECTED FOR TIGHTNESS. EXOTHERMIC WELDED CONNECTIONS SHALL BE APPROVED BY THE INSPECTOR HAVING JURISDICTION BEFORE BEING PERMANENTLY CONCEALED.
8. APPLY CORROSION-RESISTANCE FINISH TO FIELD CONNECTIONS AND PLACES WHERE FACTORY APPLIED PROTECTIVE COATINGS HAVE BEEN DESTROYED. USE KOPR-SHIELD ANTI-OXIDATION COMPOUND ON ALL COMPRESSION GROUNDING CONNECTIONS.
9. A SEPARATE, CONTINUOUS, INSULATED EQUIPMENT GROUNDING CONDUCTOR SHALL BE INSTALLED IN ALL FEEDER AND BRANCH CIRCUITS.
10. BOND ALL INSULATED GROUNDING BUSHINGS WITH A BARE 6 AWG GROUNDING CONDUCTOR TO A GROUND BUS.
11. DIRECT BURIED GROUNDING CONDUCTORS SHALL BE INSTALLED AT A NOMINAL DEPTH OF 36" MINIMUM BELOW GRADE, OR 6" BELOW THE FROST LINE, USE THE GREATER OF THE TWO DISTANCES.
12. ALL GROUNDING CONDUCTORS EMBEDDED IN OR PENETRATING CONCRETE SHALL BE INSTALLED IN SCHEDULE 40 PVC CONDUIT.
13. THE INSTALLATION OF CHEMICAL ELECTROLYTIC GROUNDING SYSTEM IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. REMOVE SEALING TAPE FROM LEACHING AND BREATHER HOLES. INSTALL PROTECTIVE BOX FLUSH WITH GRADE.
14. DRIVE GROUND RODS UNTIL TOPS ARE A MINIMUM DISTANCE OF 36" DEPTH OR 6" BELOW FROST LINE, USING THE GREATER OF THE TWO DISTANCES.
15. IF COAX ON THE ICE BRIDGE IS MORE THAN 6 FT. FROM THE GROUNDING BAR AT THE BASE OF THE TOWER, A SECOND GROUNDING BAR WILL BE NEEDED AT THE END OF THE ICE BRIDGE, TO GROUND THE COAX CABLE GROUNDING KITS AND IN-LINE ARRESTORS
16. SUBCONTRACTOR SHALL REPAIR, AND/OR REPLACE, EXISTING GROUNDING SYSTEM COMPONENTS DAMAGED DURING CONSTRUCTION AT THE SUBCONTRACTORS EXPENSE.

3.5 ACCEPTANCE TESTING:

- A. CERTIFIED PERSONNEL USING CERTIFIED EQUIPMENT SHALL PERFORM REQUIRED TESTS AND SUBMIT WRITTEN TEST REPORTS UPON COMPLETION.
- B. WHEN MATERIAL AND/OR WORKMANSHIP IS FOUND NOT TO COMPLY WITH THE SPECIFIED REQUIREMENTS, THE NON-COMPLYING ITEMS SHALL BE REMOVED FROM THE PROJECT SITE AND REPLACED WITH ITEMS COMPLYING WITH THE SPECIFIED REQUIREMENTS PROMPTLY AFTER RECEIPT OF NOTICE FOR NON-COMPLIANCE.
- C. TEST PROCEDURES:
1. ALL FEEDERS SHALL HAVE INSULATION TESTED AFTER INSTALLATION, BEFORE CONNECTION TO DEVICES. THE CONDUCTORS SHALL TEST FREE FROM SHORT CIRCUITS AND GROUNDS. TESTING SHALL BE FOR ONE MINUTE USING 1000V DC. PROVIDE WRITTEN DOCUMENTATION FOR ALL TEST RESULTS.
 2. PRIOR TO ENERGIZING CIRCUITRY, TEST WIRING DEVICES FOR ELECTRICAL CONTINUITY AND PROPER POLARITY CONNECTIONS.
 3. MEASURE AND RECORD VOLTAGES BETWEEN PHASES AND BETWEEN PHASE CONDUCTORS AND NEUTRALS. SUBMIT A REPORT OF MAXIMUM AND MINIMUM VOLTAGES
 4. PERFORM GROUNDING TEST TO MEASURE GROUNDING RESISTANCE OF GROUNDING SYSTEM USING THE IEEE STANDARD 3-POINT "FALL-OFF-POTENTIAL" METHOD. PROVIDE PLOTTED TEST VALUES AND LOCATION SKETCH. NOTIFY THE ENGINEER IMMEDIATELY IF MEASURED VALUE IS OVER 5 OHMS.



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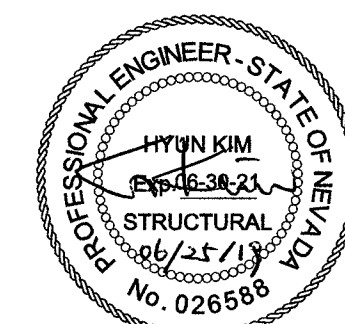
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

DRAWN BY: TPG

CHECKED BY: GAC

REV	DATE	DESCRIPTION
2	05/23/2018	ISSUED FOR CONSTRUCTION
1	04/30/2019	ISSUED FOR CONSTRUCTION
0	04/08/2019	ISSUED FOR CONSTRUCTION



IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

GN-2

14

GENERAL ELECTRICAL NOTES

STRUCTURAL STEEL NOTES

- DESIGN, FABRICATION, ERECTION, ALTERATION AND MAINTENANCE SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE (UNO).
 - TIA-222: STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
 - TIA-1019-A: INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
 - AISC: MANUAL OF STEEL CONSTRUCTION
- ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNO.
 - STRUCTURAL STEEL, ASTM A572 GRADE 65 (FY = 65 KSI).
 - ALL BOLTS, ASTM A325 TYPE 1 GALVANIZED HIGH STRENGTH BOLTS.
 - ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- ALL HOLES SHALL BE CUT WITH A GRINDER OR DRILLED. HOLES SHALL NOT BE FLAME CUT THRU STEEL UNLESS APPROVED BY THE ENGINEER OF RECORD.
- ALL FASTENERS SHALL NOT BE REUSED.
- A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED ASTM A325 BOLTS.
- ALL PROPOSED AND/OR REPLACED BOLTS SHALL BE OF SUFFICIENT LENGTH SUCH THAT THE END OF THE BOLT BE AT LEAST FLUSH WITH THE FACE OF THE NUT. IT IS NOT PERMITTED FOR THE BOLT END TO BE BELOW THE FACE OF THE NUT AFTER TIGHTENING IS COMPLETED.
- HOT-DIP GALVANIZE ALL ITEMS, UNO.
GALVANIZE PER ASTM A123, ASTM A153/A153M OR ASTM A653 G90, AS APPLICABLE.
- AFTER FINAL INSPECTION, ALL EXPOSED STRUCTURAL STEEL AS THE RESULT OF THIS SCOPE OF WORK INCLUDING WELDS, FIELD DRILLED HOLES, AND SHAFT INTERIORS (WHERE ACCESSIBLE), SHALL BE CLEANED AND COLD GALVANIZING APPLIED BY BRUSH. PHOTO DOCUMENTATION IS REQUIRED TO BE SUBMITTED TO THE INSPECTOR.

WELDING NOTES

- ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL".
- ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- ALL ARC WELDING ON STRUCTURES SHALL BE DONE IN ACCORDANCE WITH AWS D1.1 (LATEST EDITION). THIS SHALL INCLUDE A CERTIFIED WELDING INSPECTOR (CWI) FOR ACCEPTANCE OR REJECTION OF ALL WELDING OPERATIONS, PRE-DURING-POST, USING THE ACCEPTANCE CRITERIA OF AWS D1.1. THE CWI SHALL WORK WITH THE GC ON THE LEVEL OF INTERACTION NEEDED TO CONDUCT THE WELDING INSPECTION. THE CERTIFIED WELDING INSPECTION IS THE RESPONSIBILITY OF THE GC.
- FOR ALL WELDING, USE E80XX ELECTRODES FOR SMAW PROCESS AND E8XT-XX ELECTRODES FOR FCAW PROCESS, UNO.
- SURFACES TO BE WELDED SHALL BE FREE FROM SCALE, SLAG, RUST, MOISTURE, GREASE OR ANY OTHER FOREIGN MATERIAL THAT WOULD PREVENT PROPER WELDING. GRIND THE SURFACE ADJACENT TO THE WELD FOR A DISTANCE OF 2" MINIMUM ALL AROUND. ENSURE BOTH AREAS ARE 100% FREE OF ALL GALVANIZING.
- REPAIR THE GALVANIZED COATING. ALL AREAS AFFECTED BY THE FIELD DRILLING, FIELD GRINDING AND FIELD WELDING, BOTH INSIDE AND OUTSIDE THE MONOPOLE, SHALL BE REPAIRED. PRODUCTS TO BE APPLIED IN STRICT ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. AREAS THAT HAVE BEEN TOUCHED UP SHOULD BE INSPECTED AS PART OF THE ROUTINE MAINTENANCE OF THE STRUCTURE. NO SPRAY PAINT IS ALLOWED. AFTER ZINC-RICH PAINT IS DRY, OVERCOAT WITH OWNER'S PAINT SPECIFICATIONS, APPLIED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- DO NOT WELD IF THE TEMPERATURE OF THE STEEL IN THE VICINITY OF THE WELD AREA IS BELOW 0° F. WHEN THE TEMPERATURE IS BETWEEN 0° F AND 32° F, PREHEAT AND MAINTAIN THE STEEL IN THE VICINITY OF THE WELD AREA AT 70° F DURING THE WELDING PROCESS.
- DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.
- MOVE ALL COAX AND OTHER FLAMMABLE MATERIALS FROM ANY AREA THAT MAY BE HEATED DURING CONSTRUCTION.
- CONTRACTOR SHALL MAKE PROPER PRECAUTIONS AND PROCEDURES TO PROTECT THE STRUCTURE FROM CATCHING FIRE DURING ALL WELDING OPERATIONS. THE FOLLOWING FIRE SAFETY PREVENTION PROTOCOL IS THE MINIMUM REQUIREMENTS DURING WELDING OPERATIONS.
 - 500 GALLON WATER TANK WITH PUMP TO BE ON SITE AT ALL TIMES.
 - 2 FIRE EXTINGUISHERS ON SITE AT ALL TIMES.
 - 2 MAN FIRE WATCH ON ANY ADJACENT STRUCTURES, FIELDS AND POLE.
 - INTERMITTENT COOLING OF WELDED SURFACE TO REDUCE HEAT IN STRUCTURE.

CLARK COUNTY NV STORMWATER BMP NOTES:

- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL EACH DAY REMOVE ALL SEDIMENT, MUD, CONSTRUCTION DEBRIS, OR OTHER POTENTIAL POLLUTANTS THAT MAY HAVE BEEN DISCHARGED TO, OR ACCUMULATED IN, THE PUBLIC RIGHTS OF WAY OF CLARK COUNTY AS A RESULT OF CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS SITE DEVELOPMENT OR CONSTRUCTION PROJECT. SUCH MATERIALS SHALL BE PREVENTED FROM ENTERING THE STORM SEWER SYSTEM.
- ADDITIONAL CONSTRUCTION SITE DISCHARGE BEST MANAGEMENT PRACTICES MAY BE REQUIRED OF THE OWNER AND HIS OR HER AGENTS DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE SUBMITTED PLAN DOES NOT MEET THE PERFORMANCE STANDARDS SPECIFIED IN THE LAS VEGAS VALLEY CONSTRUCTION SITE BMP GUIDANCE MANUAL.
- AT A MINIMUM, THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL DISTURBED AREAS, AREAS USED FOR STORAGE OF MATERIALS AND EQUIPMENT THAT ARE EXPOSED TO PRECIPITATION, VEHICLE ENTRANCE AND EXIT LOCATIONS, AND ALL BMPS WEEKLY, AND WITHIN 24 HOURS AFTER ANY RAIN EVENT OF 0.5 INCHES OR MORE. THE CONTRACTOR OR HIS AGENT SHALL UPDATE OR MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY. SOME EXCEPTIONS TO WEEKLY INSPECTIONS MAY APPLY, SUCH AS SUSPENSION OF LAND DISTURBANCE ACTIVITIES. REFER TO THE NEVADA STORMWATER GENERAL PERMIT FOR CONSTRUCTION ACTIVITY NVR100000, SECTION III.A.12.
- ACCUMULATED SEDIMENT IN BMPS SHALL BE REMOVED WITHIN SEVEN DAYS AFTER A STORMWATER RUNOFF EVENT OR PRIOR TO THE NEXT ANTICIPATED STORM EVENT, WHICHEVER IS EARLIER. SEDIMENT MUST BE REMOVED WHEN BMP DESIGN CAPACITY HAS BEEN REDUCED BY 50 PERCENT OR MORE.
- BMPS TO BE IMPLEMENTED INCLUDE BUT ARE NOT LIMITED TO:
 - MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL
 - CONTROLLING STORMWATER FLOWING ONTO AND THROUGH THE PROJECT VIA THE USE OF SEDIMENT BERMES AND STRAW WADDLES AS APPROPRIATE
 - STABILIZING SOILS THROUGH SITE RESTORATION AT COMPLETION OF PROJECT
 - PROTECTING STORM DRAIN INLETS VIA THE USE OF SAND BAGS, STRAW WADDLES AND FILTER FABRIC AS APPROPRIATE
- BMPS MUST BE IN PLACE WHEN SOILS ARE EXPOSED (NO WAITING PERIODS)

CLARK COUNTY NV PUBLIC WORKS DEVELOPMENT NOTES

- STRUCTURAL DESIGN ACCEPTANCE IS VALID ONLY FOR POLE FOUNDATIONS INSTALLED ON LEVELED SURFACES. ANY FOUNDATION INSTALLED WITHIN (5FT) FROM A SLOPE WILL REQUIRE SLOPE STABILITY ANALYSIS AND CALCULATIONS WITH A SEPARATE STRUCTURAL REVIEW AND FEE. GEOTECHNICAL WILL BE NEEDED FOR THE REVIEW.
- SIDEWALKS MUST BE UNOBSTRUCTED AND HAVE AN ACCESS OF AT LEAST 3.0-FT FROM BACK OF CURB.

SPECIAL INSPECTIONS REQUIRED

- PERFORM THIRD PARTY SPECIAL INSPECTION FOR (STREET LIGHT FOUNDATION...)SPECIAL INSPECTION IS REQUIRED.
- INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED BY CLARK COUNTY; EMPLOYED BY THE OWNER/DEVELOPER.
 - PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE FOR THE ITEMS LISTED BELOW.
 - MASONRY-- PERIODIC
 - REINFORCING STEEL PLACEMENT-- PERIODIC
 - GROUT--CONTINUOUS
 - CONCRETE PLACEMENT--CONTINUOUS
 - CONCRETE STRENGTH-- CONTINUOUS
 - EPOXY FASTENED DOWELS AND ANCHORS--PERIODIC
 -
 - THE INSPECTOR SHALL SUBMIT A STATEMENT TO THE OWNER/DEVELOPER, AND STRUCTURAL ENGINEER INDICATING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
 - SPECIAL INSPECTION OF THE FILL AROUND THE ((STREET LIGHT FOUNDATION...)) SHALL BE PROVIDED AT A FREQUENCY AS NECESSARY TO ENSURE THAT PROPER FILL AND COMPACTION IS ACHIEVED. COMPACTION TEST FOR EACH LIFT SHALL BE TAKEN PER CCAUSD 203.05.02. THE SPECIAL INSPECTOR SHALL SUBMIT A COMPLIANCE REPORT TO THE OWNER/DEVELOPER



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10550 W. CHARLESTON
SUITE B
LAS VEGAS, NV 89135



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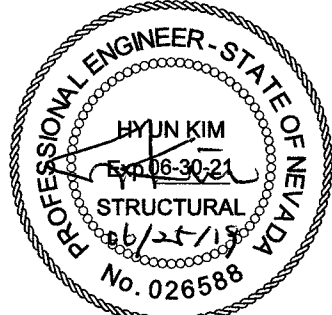
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084.1486

DRAWN BY: TPG

CHECKED BY: GAC

2	05/23/2019	ISSUED FOR CONSTRUCTION
1	04/30/2019	ISSUED FOR CONSTRUCTION
0	04/08/2019	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION



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NVL08190F_R02
ADJACENT TO
1920 DENBY AVE
LAS VEGAS, NV 89106
PICO SMALL CELL

SHEET TITLE
GENERAL NOTES

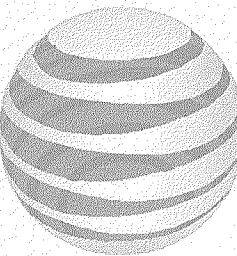
SHEET NUMBER

GN-3

15

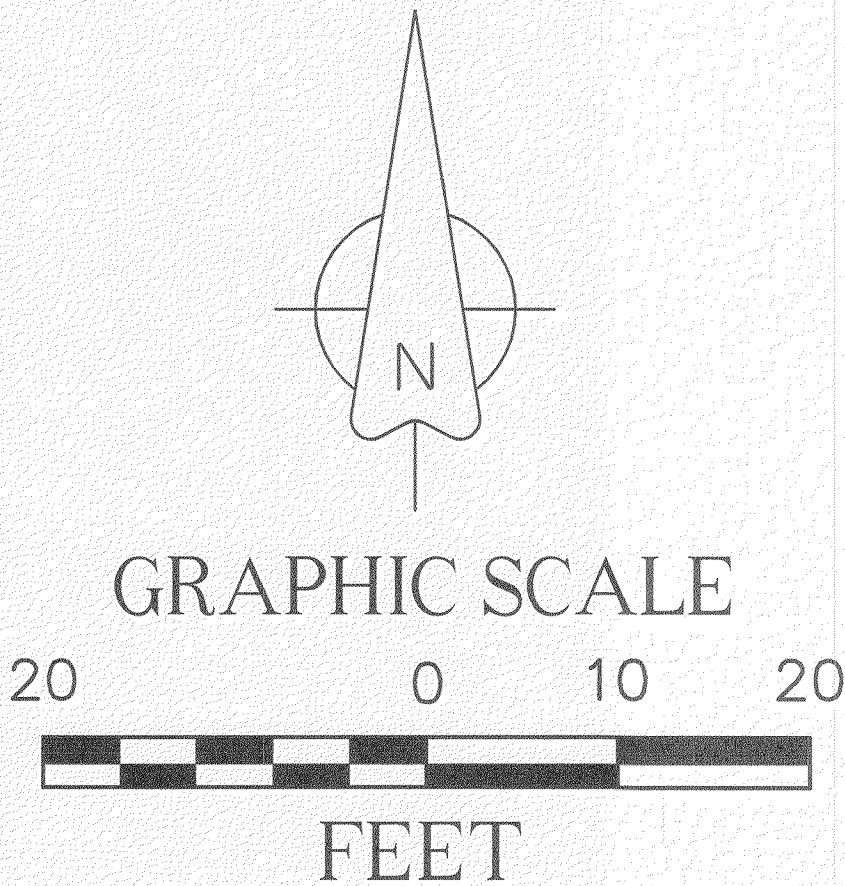
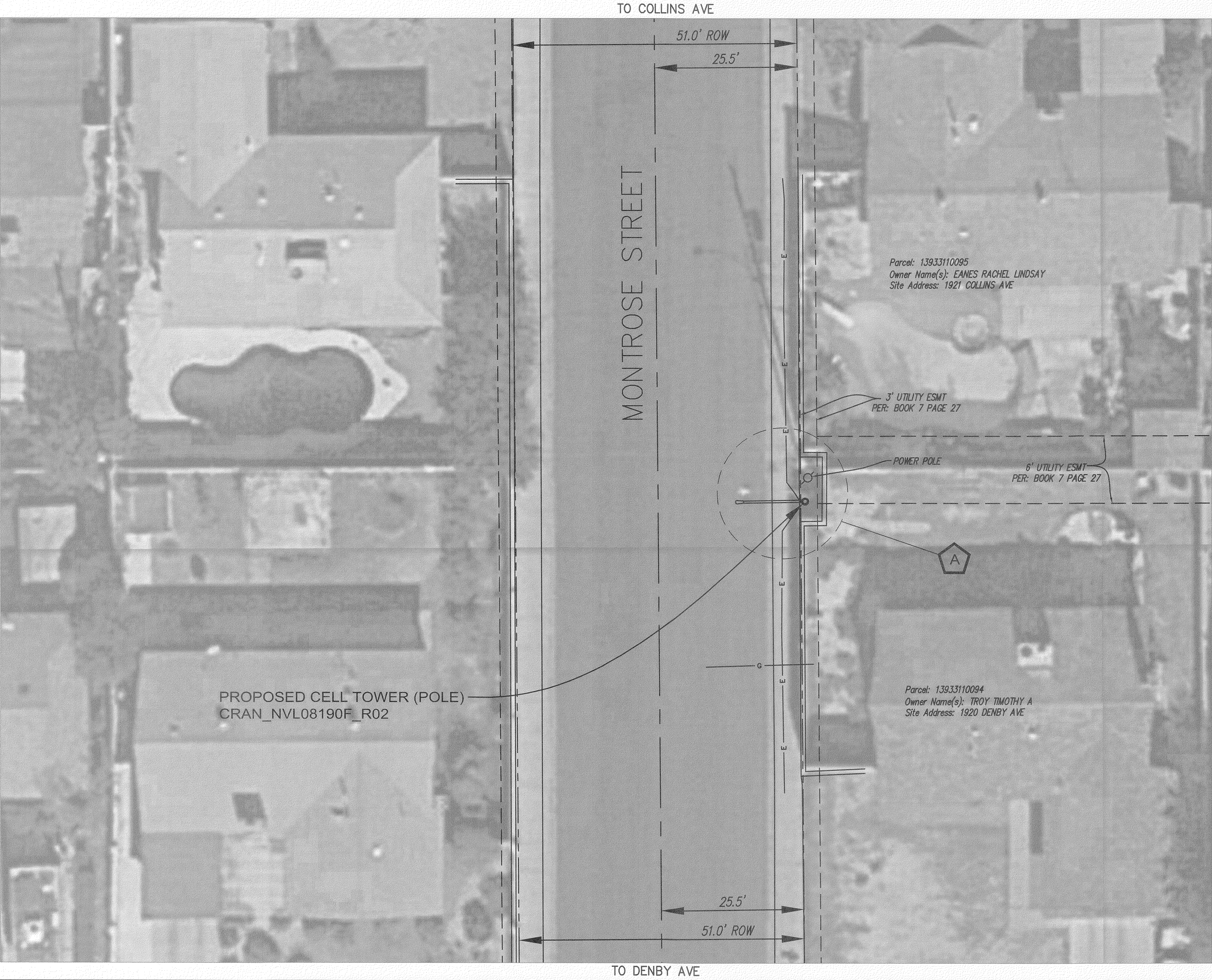
SMALL CELL SITE SURVEY
SITE: CRAN_NVL08190F_R02
NW¼NW¼ OF SECTION 33, TOWNSHIP 20 SOUTH, RANGE 61 EAST

SITE #/PACE_NAME: CRAN_NVL08190F_R02_LTE_1C_1900
FA LOCATION CODE: 14826110
USID: 208984



at&t

12900 PARK PLAZA DRIVE,
CERRITOS, CA 90703



A LATITUDE: 36°10'21.34"N
LONGITUDE: 115°10'05.23"W
GROUND ELEVATION: 2063.23'
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	S
TELEPHONE	T
WATER	W
ELECTRIC	E
GAS LINE	G
OVERHEAD ELEC	
FENCE BARB	X
PROPERTY LINE	

ENGINEERS:



BLACK & VEATCH

6 SUNSET WAY
SUITE B108
HENDERSON, NV 89014

SITE NO: CRAN_NVL08190F_R02
DRAWN BY: KJC
CHECKED BY: CIS

REV	DATE	DESCRIPTION
A	3/18/19	PRELIMINARY SUBMITTAL

SURVEYOR:



PROFESSIONAL LAND SURVEYING
435-660-0816

CIS JOB NO:
CIS 315-1-31-69

SHEET TITLE
SMALL CELL
SITE SURVEY

SHEET NUMBER
1 OF 1

16