

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

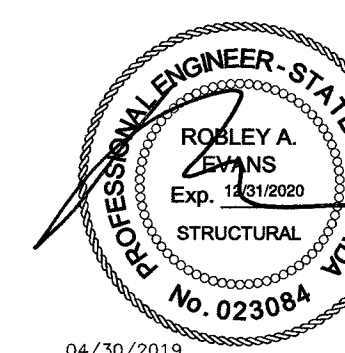
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084:1512

DRAWN BY: TPG

CHECKED BY: GAC

REV	DATE	DESCRIPTION
0	04/15/19	ISSUED FOR CONSTRUCTION



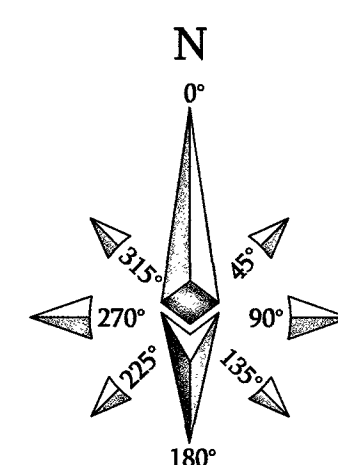
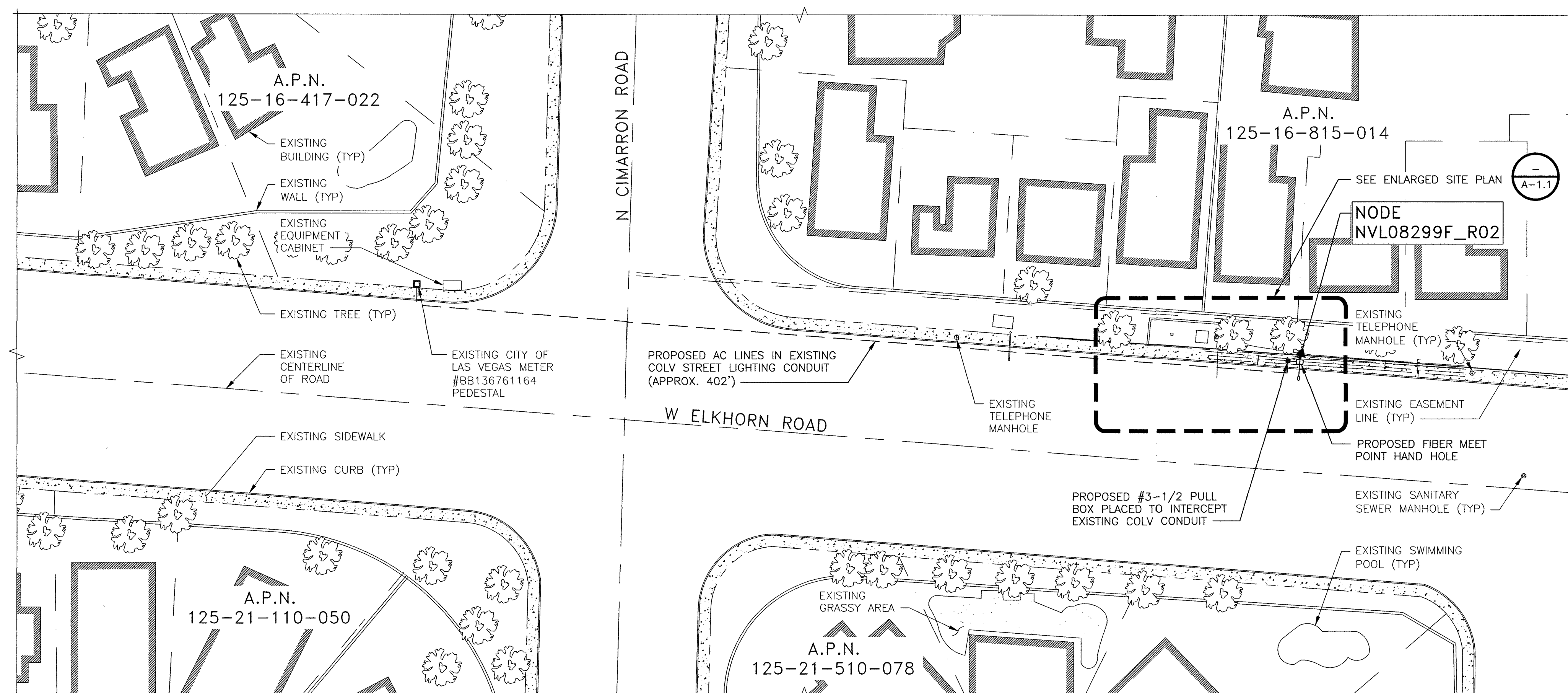
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TO ALTER THIS DOCUMENT.

NVL08299F_R02
INTERSECTION OF
ELKHORN RD & DUNMORE ST
LAS VEGAS, NV 89131
PICO SMALL CELL

SHEET TITLE
EXPANDED SITE PLAN
AND UTILITY ROUTE

SHEET NUMBER

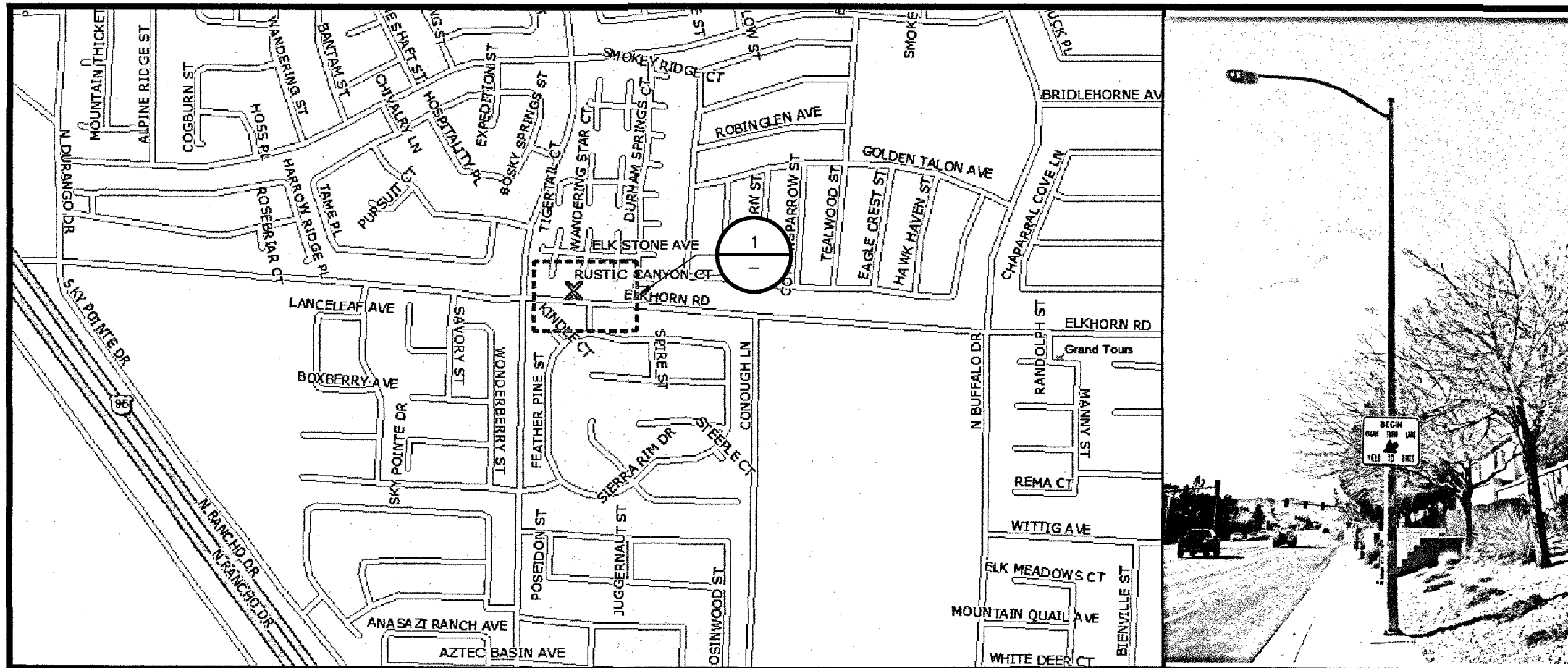
A-1



EXPANDED SITE PLAN AND UTILITY ROUTE

32' 24' 16' 8' 0' 32' 64'
1/32"=1'-0"

A



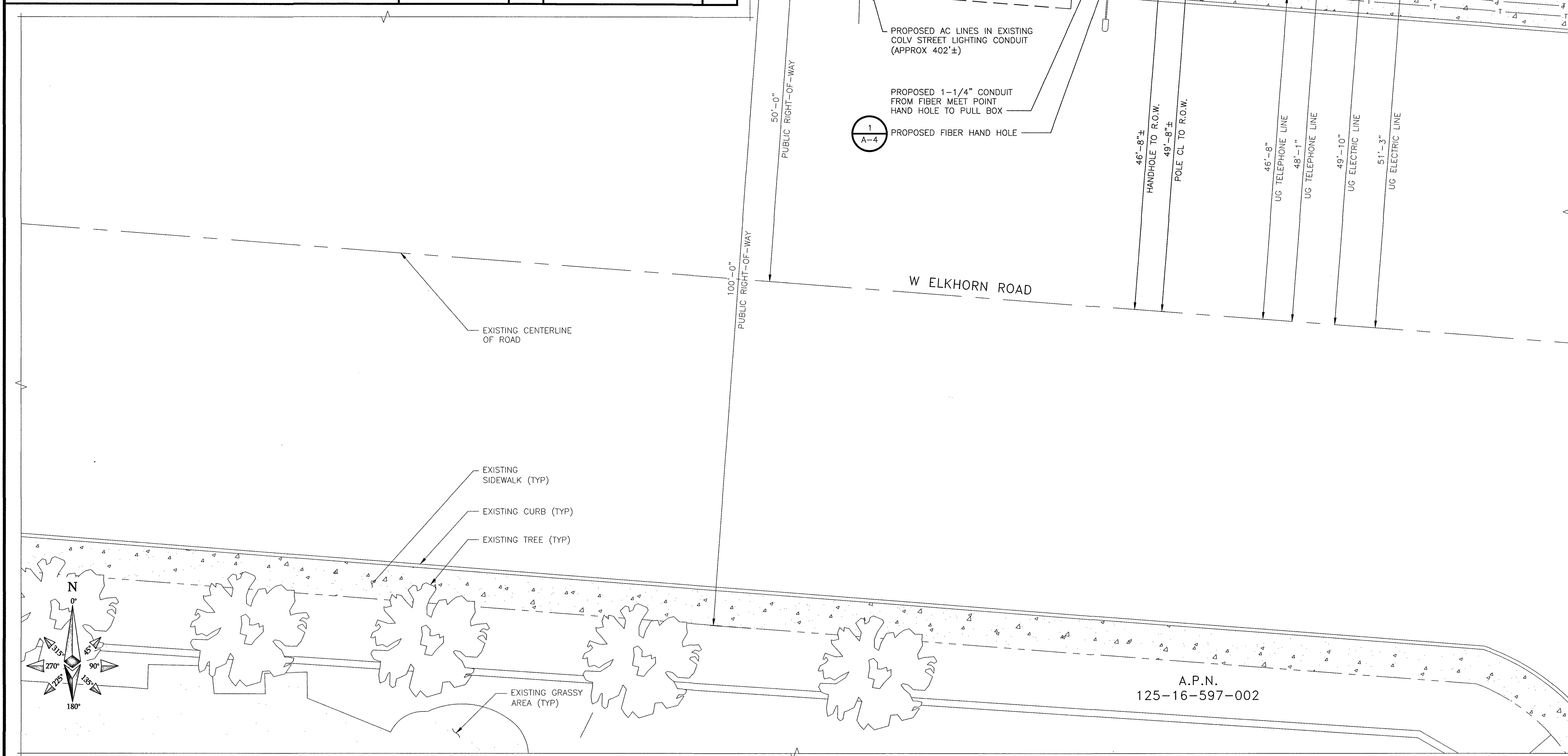
SITE PLAN MAP

NO SCALE

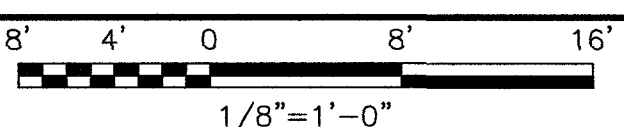
A

SITE PHOTO

B



ENLARGED SITE PLAN



A



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SUITE B
LAS VEGAS, NV 89135



BLACK & VEATCH

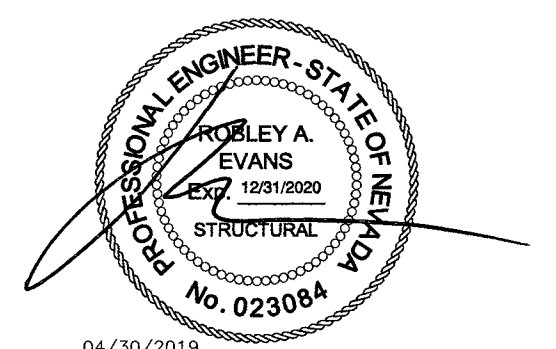
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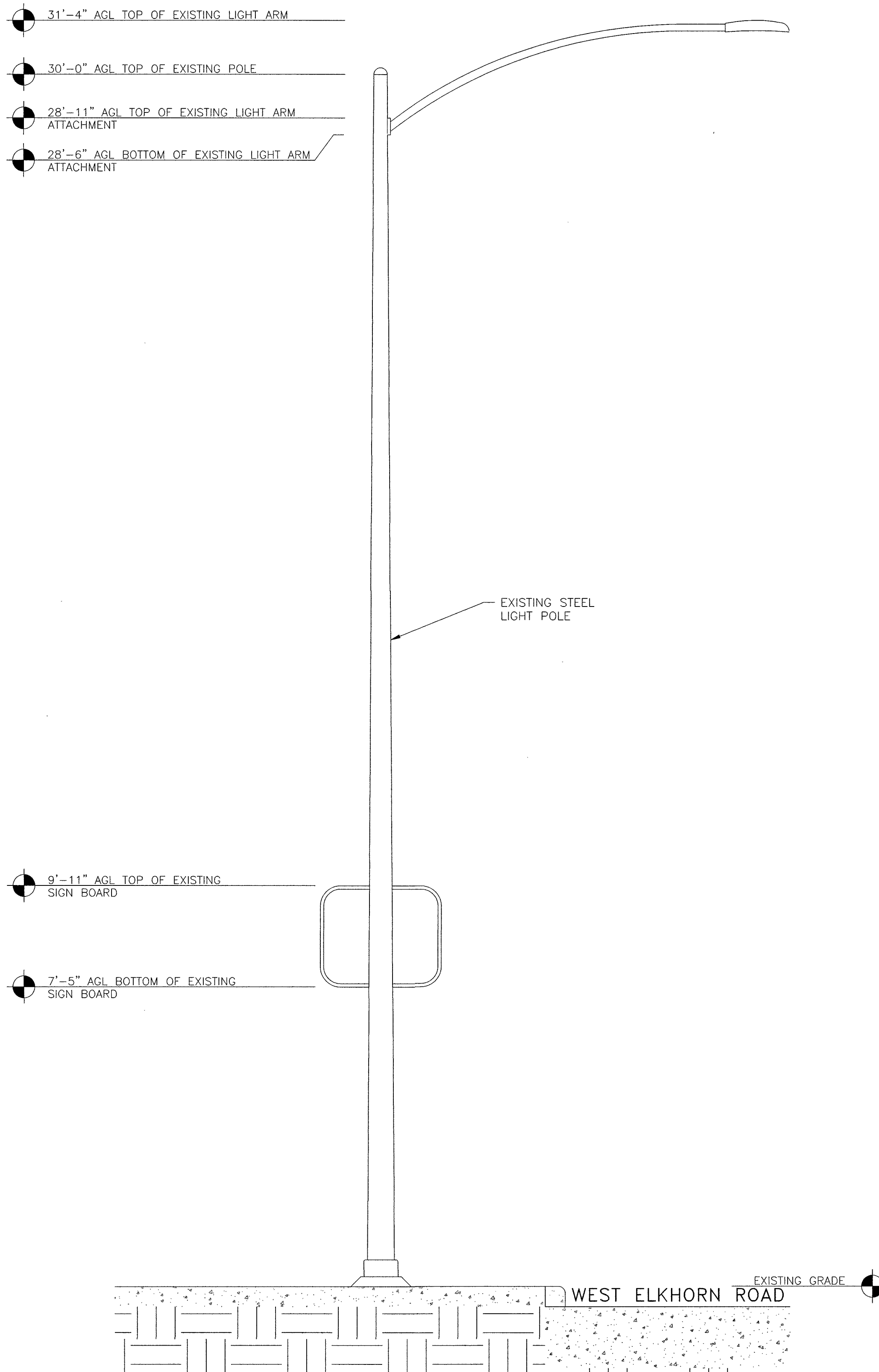
SHEET TITLE
ENLARGED SITE PLAN

SHEET NUMBER

A-1.1

NOTE

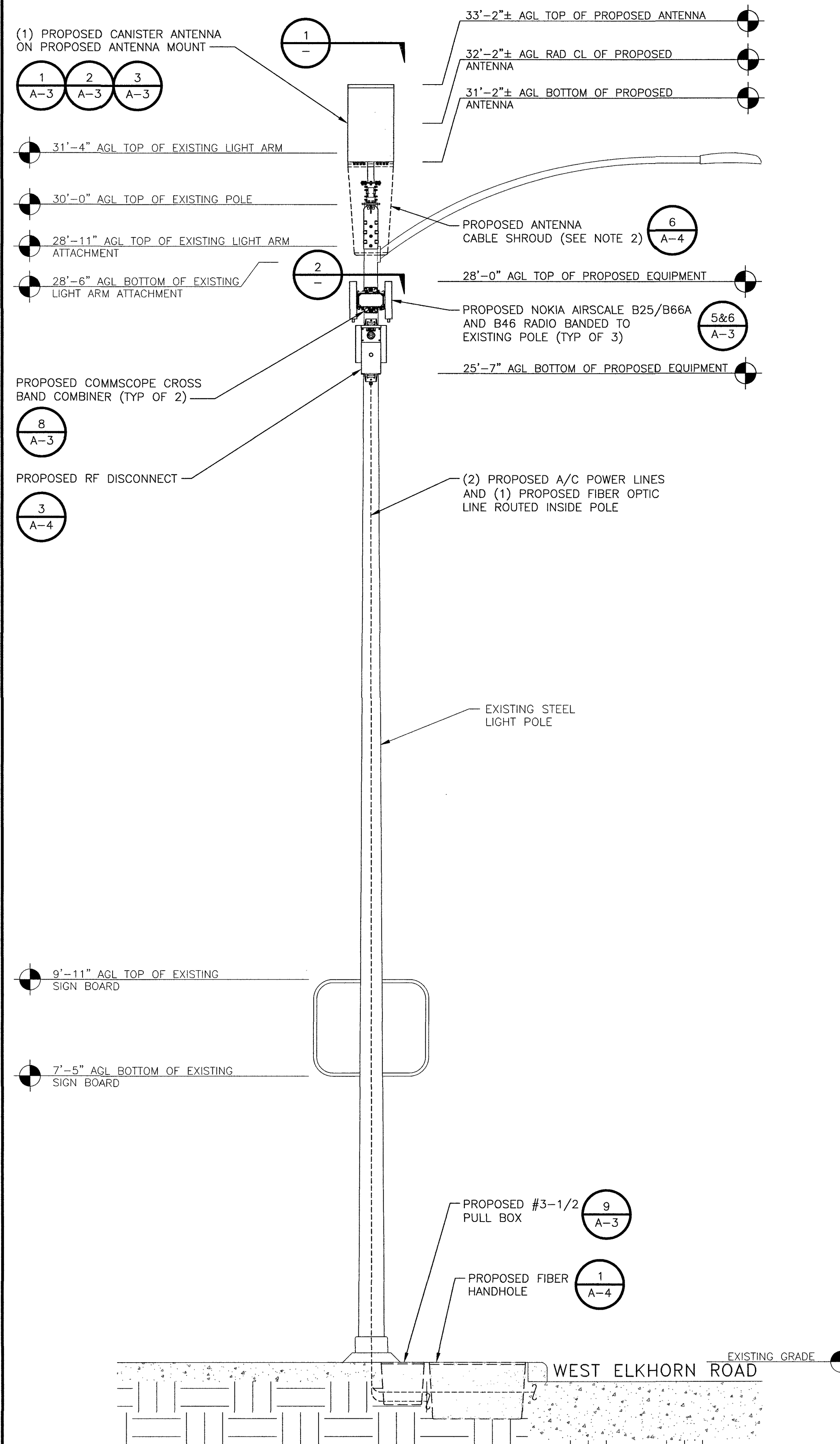
THESE DRAWINGS HAVE BEEN CREATED BASED ON STRUCTURAL CALCULATIONS PERFORMED BY BLACK & VEATCH CONFIRMING THAT THE STRUCTURE HAS SUFFICIENT CAPACITY TO SUPPORT THE PROPOSED LOADING.



EXISTING WEST 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 PENETRATIONS TO BE SEALED AGAINST WATER AND INSECT INTRUSION



PROPOSED WEST ELEVATION

PROPOSED CANISTER ANTENNA ON PROPOSED ANTENNA MOUNT

EXISTING LIGHT ARM

WEST ELKHORN ROAD

ANTENNA PLAN VIEW

NO SCALE

1

PROPOSED NOKIA AIRSCALE B25/B66A AND B46 RADIO (TYP OF 3)

PROPOSED RF DISCONNECT

PROPOSED COMMSCOPE CROSS BAND COMBINER (TYP OF 2)

WEST ELKHORN ROAD

RADIO PLAN VIEW

NO SCALE

2

NOT USED

NO SCALE

3



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BLACK & VEATCH

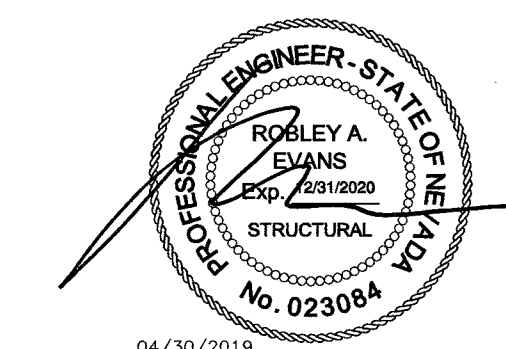
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PICO SMALL CELL

SHEET TITLE
**POLE ELEVATIONS
AND RISER DETAILS**

SHEET NUMBER

A-2



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

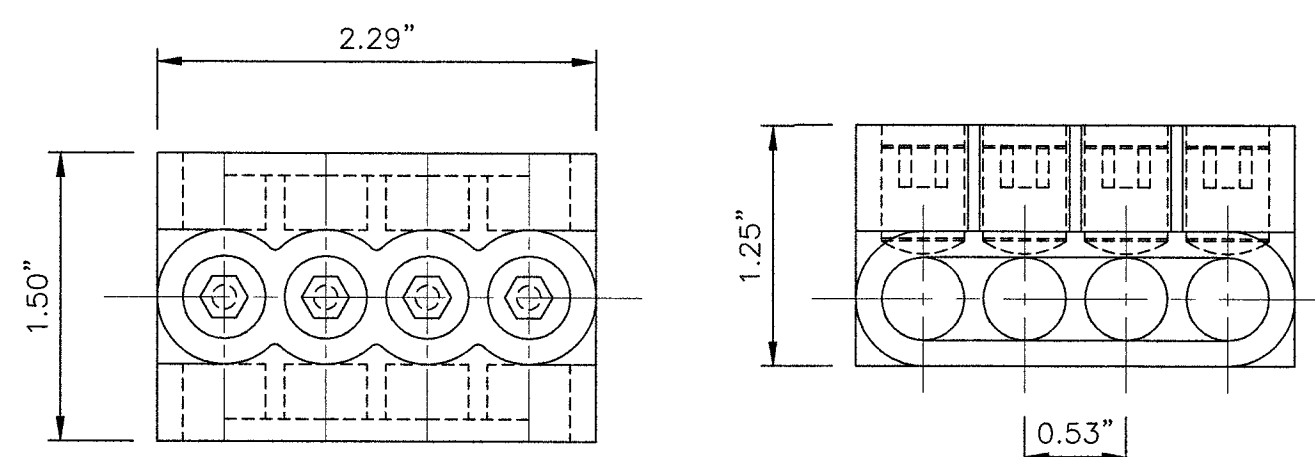
NOTE: SPECIFIC EME PLACARD WILL BE PLACED AFTER EME REPORT

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)

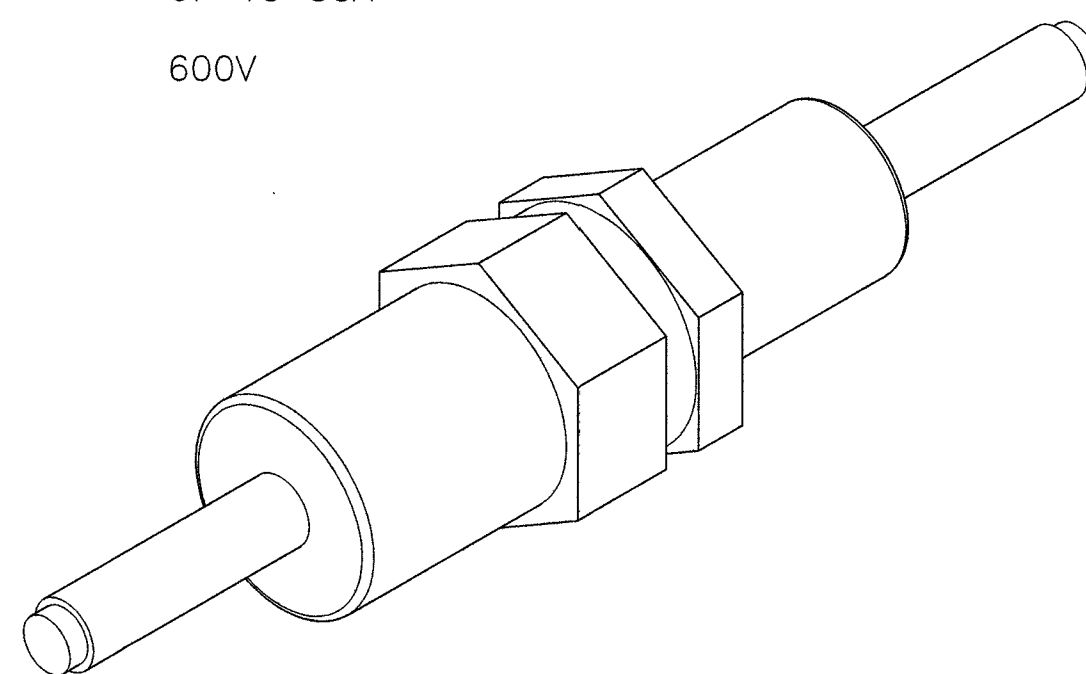
NON-BREAKAWAY MODEL#: HEB-AA (4.4" LONG)

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

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

AMPS: UP TO 30A

VOLTS: 600V



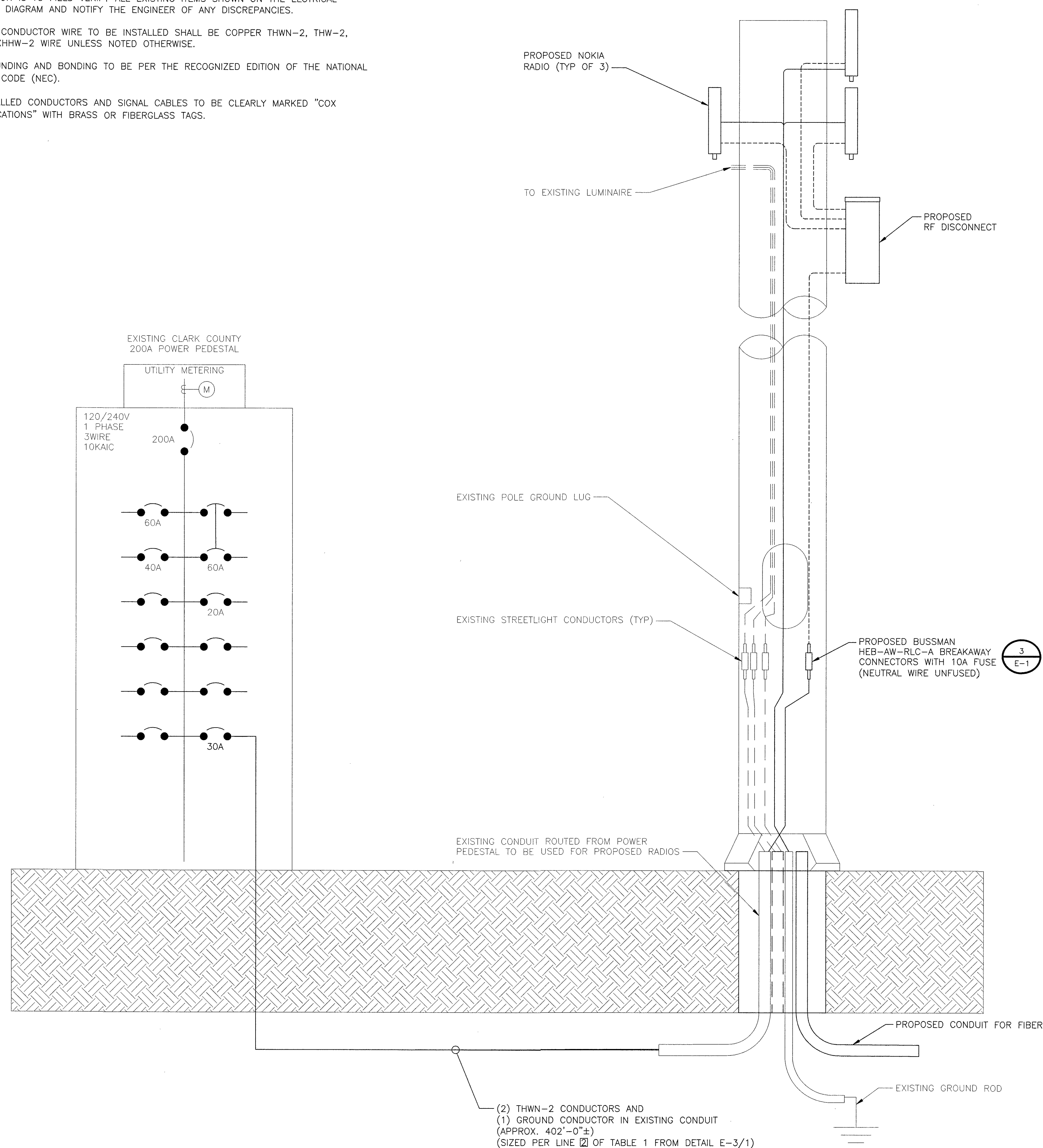
PROPOSED BREAKAWAY AND NON-BREAKAWAY IN-LINE FUSE HOLDER

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



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BLACK & VEATCH

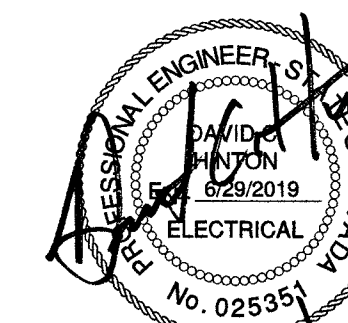
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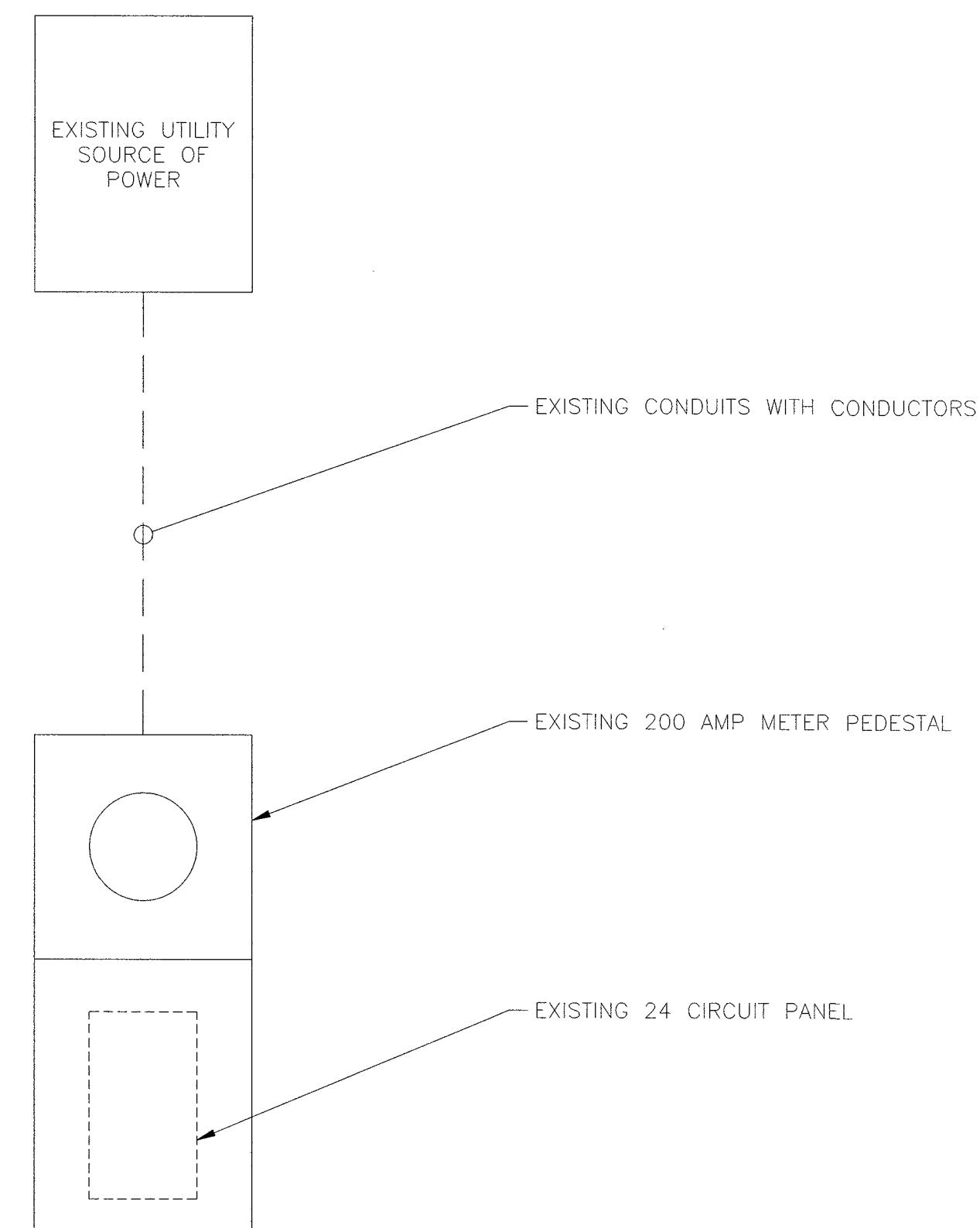
SHEET TITLE
ELECTRICAL DETAILS
AND DIAGRAMS

SHEET NUMBER

E-1

EXISTING ELECTRICAL LOAD STUDY

EXISTING LOAD.....21.85 AMPS
ALLOWED LOAD 80%.....160.00 AMPS



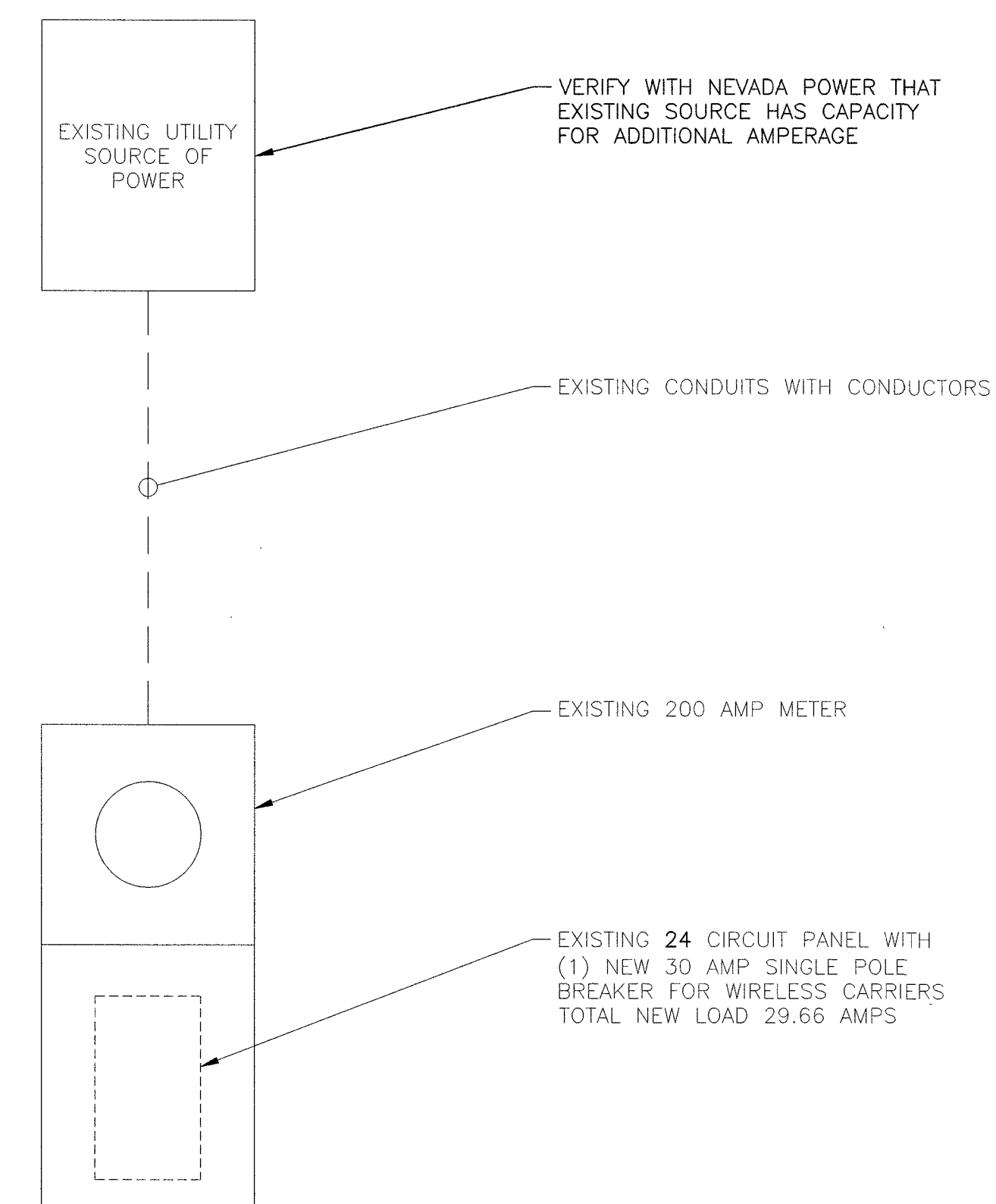
EXISTING SINGLE LINE DIAGRAM

NO SCALE

1

PROPOSED ELECTRICAL LOAD STUDY

EXISTING LOAD.....21.85 AMPS
SAFETY FACTOR 125%.....27.31 AMPS
PROPOSED LOAD.....2.34 AMPS
TOTAL LOAD.....29.66 AMPS
ALLOWED LOAD 80% OF 200 AMPS.....160.00 AMPS



PROPOSED SINGLE LINE DIAGRAM

NO SCALE

2

Site Name:		ELKHORN RD & DUNMORE ST						MODEL NUMBER:		EXISTING METER AND LOAD CENTER PEDESTAL									
SITE NUMBER:		CRAN NVL0899F_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:		EXISTING																	
CKT	LOAD DESCRIPTION	BREAKE R AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	Demand Factor	USAGE FACTOR	PHASE A VA	PHASE B VA	USAGE FACTOR	Demand Factor	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT		
								0		1.00	1.00	0	ON	2	200	MAIN			
								0		1.00	1.00	0							
1	EXISTING LOADS	60	1	ON	300	1.00	1.25	2700		1.25	1.00	1860	ON	2	60	STREET LIGHTS	2		
3	EXISTING LOADS	40	1	ON	1164	1.00	1.25		3780	1.25	1.00	1860					4		
5								75		1.25	1.00	60	ON	1	20	TIMER	6		
7									0								8		
9								0									10		
11									0								12		
13								0									14		
15									0								16		
17								0									18		
19									0								20		
21								0									22		
23									563	1.25	1.00	450	NEW	1	30	PACTECHSOL PTS90122-3-AA77-PN-8	24		
								PHASE A	PHASE B										
								2775	4343 VA										
								TOTAL	KVA	7.12									
									AMPS	29.66									

PROPOSED PANEL SCHEDULE AND CALCS

NO SCALE

3



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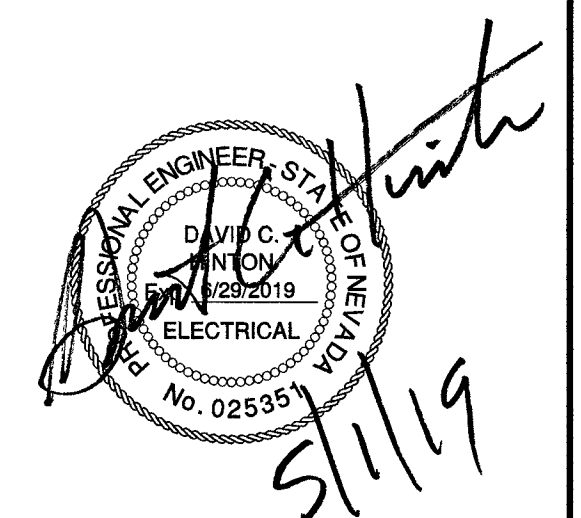
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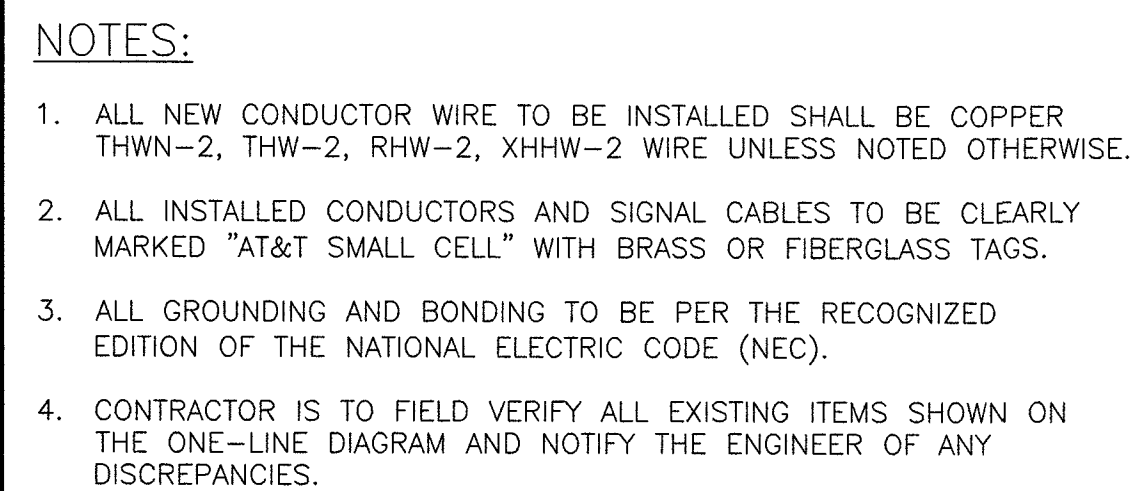
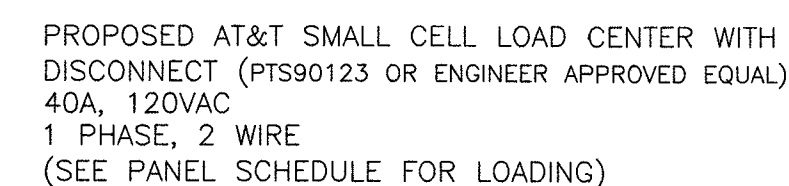
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NVL08299F_R02
INTERSECTION OF
ELKHORN RD & DUNMORE ST
LAS VEGAS, NV 89131
PICO SMALL CELL

SHEET TITLE
ELECTRICAL CALCULATIONS
AND SCHEDULES

SHEET NUMBER

E-2

TABLE 1

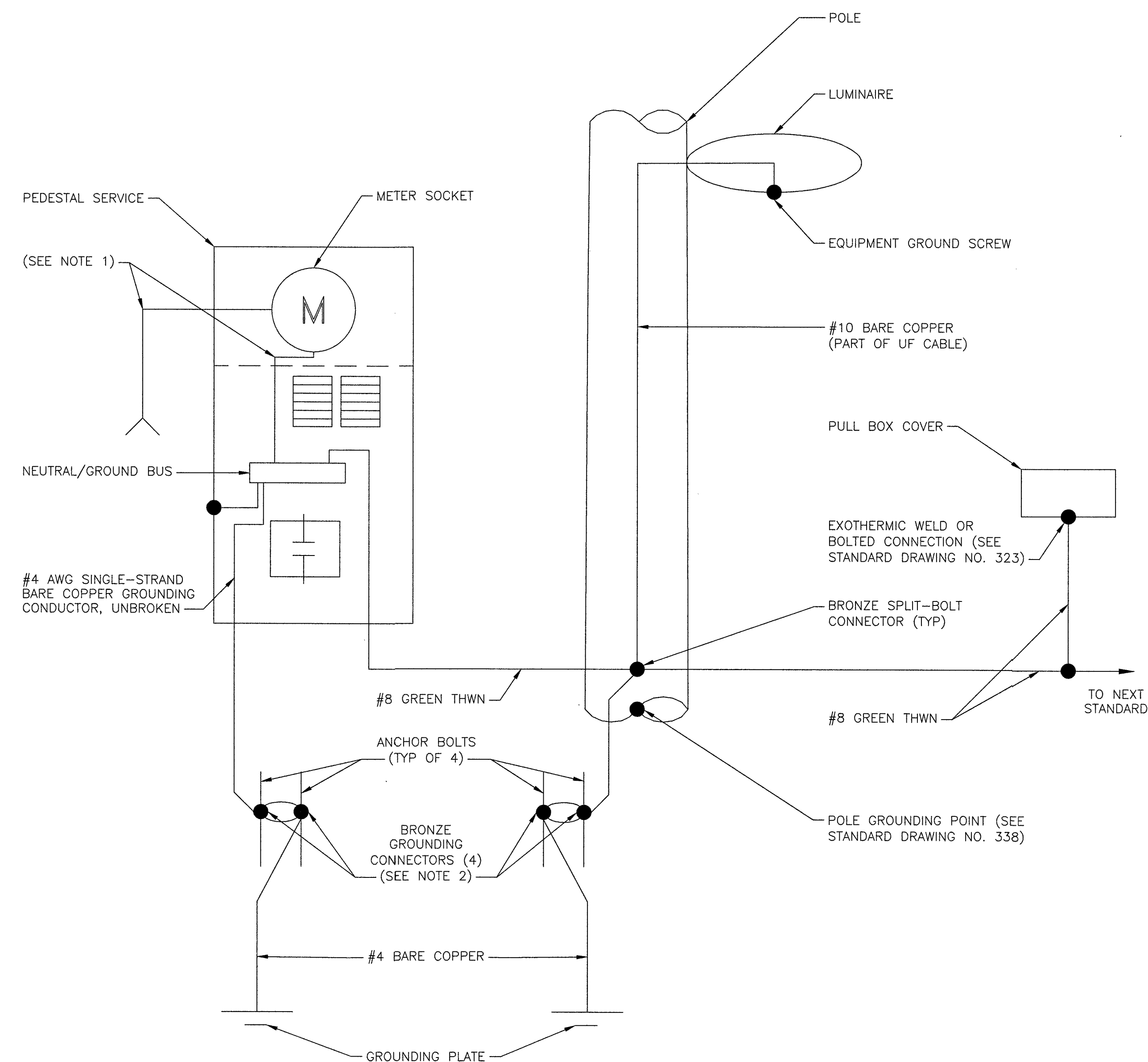
Site Name:		ELKHORN RD & DUNMORE ST					MODEL NUMBER:		PACTECHSOL PTS90123									
SITE NUMBER:		NVL08299F_R02					PHASE:		1				WIRE:		3			
VOLTAGE:		120		Volts AC				BUSS RATING:		40		AMPS						
MAIN BREAKER:		30		AMPS														
MOUNT:		SURFACE																
ENCLOSURE TYPE:		NEMA 3R																
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	NOKIA AIRSCALE MICRO B25/B66 RRH	5	1	NEW	150	1.00	1.00	150									2	
2									0								4	
3	NOKIA AIRSCALE MICRO B25/B66 RRH	5	1	NEW	150	1.00	1.00	150									6	
4									0								8	
5	NOKIA AIRSCALE MICRO B25/B66 RRH	5	1	NEW	150	1.00	1.00	150									10	
								PHASE A	PHASE B									
								450	0	VA								
1. PANEL SCHEDULE LOADING AND CIRCUIT ARRANGEMENTS REFLECT POST-CONSTRUCTION EQUIPMENT.										TOTAL	KVA	0.45						
										AMPS	3.75	< 90% OF MAIN BREAKER						

1

1



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.

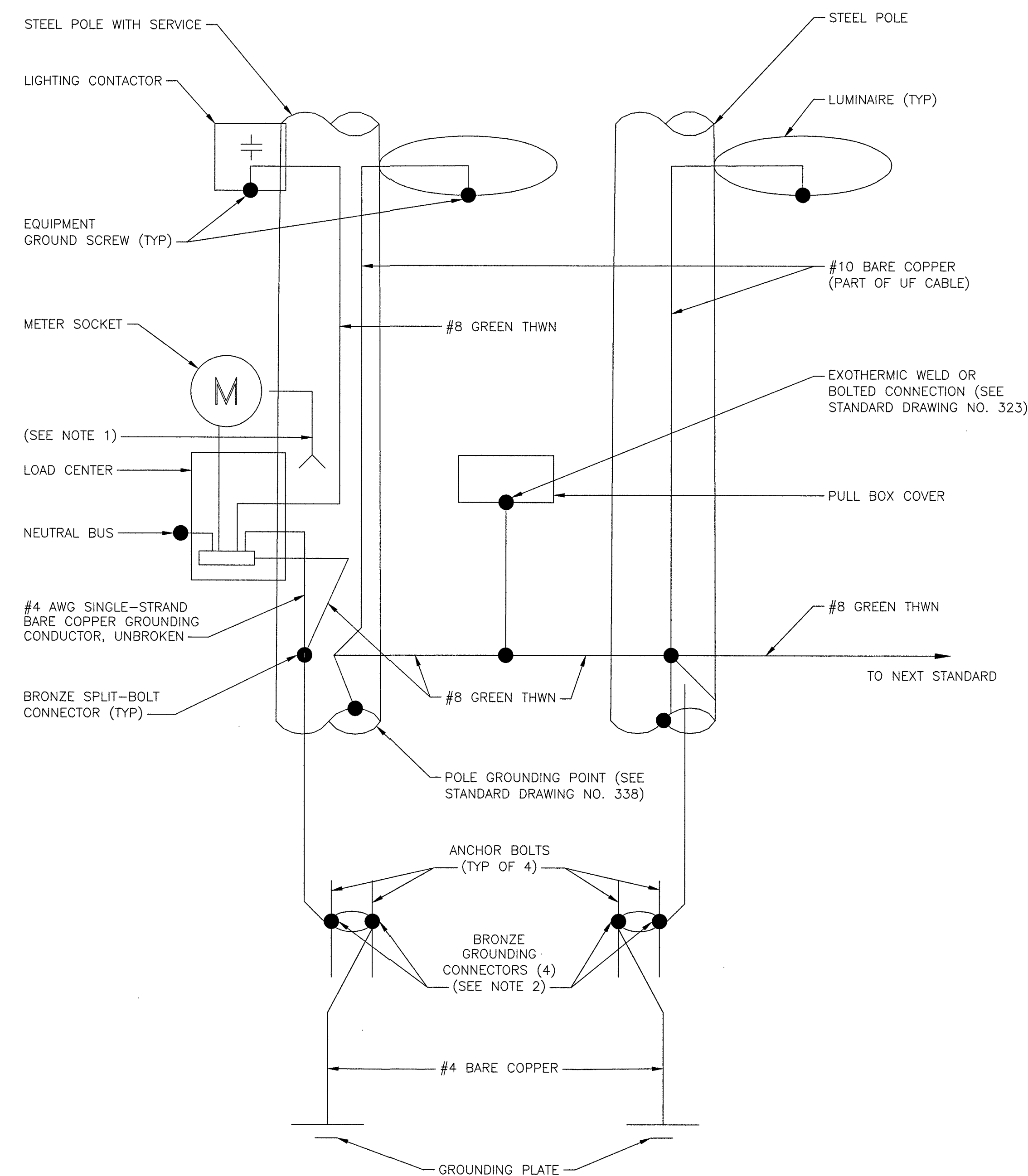


METER PEDESTAL GROUNDING DIAGRAM

NO SCALE

1

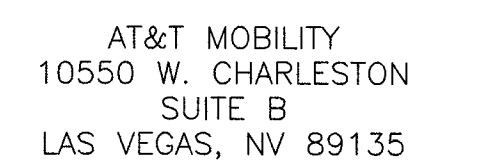
1. 125 AMP SERVICE: 1 #4 WHITE THW
200 AMP SERVICE: 1 #1/0 WHITE THW



POLE EQUIPMENT GROUNDING DIAGRAM

NO SCALE

2



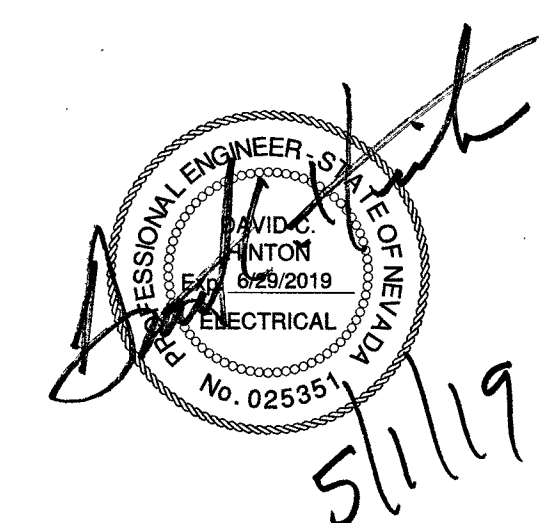
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NVLO8299F_R02
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LAS VEGAS, NV 89131
PICO SMALL CELL

SHEET TITLE

GROUNDING DIAGRAMS

SHEET NUMBER

G-1

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-DBBTXD

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

ANCHOR BOLT

ABOVE

ALTERNATING CURRENT

ADDITIONAL

ABOVE FINISHED FLOOR

ABOVE FINISHED GRADE

AMPERAGE INTERRUPTION CAPACITY

ALUMINUM

ALTERNATE

ANTENNA

APPROXIMATE

ARCHITECTURAL

AUTOMATIC TRANSFER SWITCH

AMERICAN WIRE GAUGE

BATTERY

BUILDING

BLOCK

BLOCKING

BEAM

BARE TINNED COPPER CONDUCTOR

BOTTOM OF FOOTING

CABINET

CANTILEVERED

CALIFORNIA ELECTRIC CODE

CHARGING

CEILING

CLEAR

COLUMN

COMMON

CONCRETE

CONSTRUCTION

DOUBLE

DIRECT CURRENT

DEPARTMENT

DOUGLAS FIR

DIAMETER

DIAGONAL

DIMENSION

DRAWING

DOWEL

EXISTING

EACH

ELECTRICAL CONDUCTOR

ELEVATION

ELECTRICAL

ELECTRICAL METALLIC TUBING

ENGINEER

EQUAL

EXPANSION

EXTERIOR

FABRICATION

FINISH FLOOR

FINISH GRADE

FACILITY INTERFACE FRAME

FINISH(ED)

FLOOR

FOUNDATION

FACE OF CONCRETE

FACE OF MASONRY

FACE OF STUD

FACE OF WALL

FINISH SURFACE

FOOT

FOOTING

GAUGE

GENERATOR

GROUND FAULT CIRCUIT INTERRUPTER

GLUE LAMINATED BEAM

GALVANIZED

GLOBAL POSITIONING SYSTEM

GROUND

GLOBAL SYSTEM FOR MOBILE

HEADER

HANGER

HEAT/VENTILATION/AIR CONDITIONING

HEIGHT

INTERIOR GROUND RING

INCH

INTERIOR

POUND(S)

LINEAR FEET

LONG TERM EVOLUTION

MASONRY

MAXIMUM

MACHINE BOLT

MECHANICAL

MANUFACTURER

MASTER GROUND BAR

MINIMUM

MISCELLANEOUS

METAL

MANUAL TRANSFER SWITCH

MICROWAVE

NEW

NATIONAL ELECTRIC CODE

NUMBER

NOT TO SCALE

ON CENTER

OPENING

PROPOSED

PRECAST CONCRETE

PERSONAL COMMUNICATION SERVICES

PRIMARY CONTROL UNIT

PRIMARY RADIO CABINET

POLARIZING PRESERVING

POUNDS PER SQUARE FOOT

POUNDS PER SQUARE INCH

PRESSURE TREATED

POWER CABINET

QUANTITY

RADIUS

RECTIFIER

REFERENCE

REINFORCEMENT

REQUIRED

REMOTE ELECTRIC TILT

RIGID METALLIC CONDUIT

REMOTE RADIO HEAD

REMOTE RADIO UNIT

RACEWAY

SCHEDULE

SHEET

SMART INTEGRATED DEVICE

SIMILAR

SPECIFICATION

SQUARE

STAINLESS STEEL

STANDARD

STEEL

STRUCTURAL

TEMPORARY

THICKNESS

TOWER MOUNTED AMPLIFIER

TOE NAIL

TOP OF ANTENNA

TOP OF CURB

TOP OF FOUNDATION

TOP OF PLATE (PARAPET)

TOP OF STEEL

TOP OF WALL

TRANSIENT VOLTAGE SUPPRESSION SYSTEM

TYPICAL

UNDERGROUND

UNDERWRITERS LABORATORY

UNLESS NOTED OTHERWISE

UNIVERSAL MOBILE TELECOMMUNICATIONS

SYSTEM

UNINTERRUPTIBLE POWER SYSTEM

(DC POWER PLANT)

VERIFIED IN FIELD

WIDE

WITH

WOOD

WORK POINT

WEATHERPROOF

WEIGHT

ABBREVIATIONS



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



BLACK & VEATCH

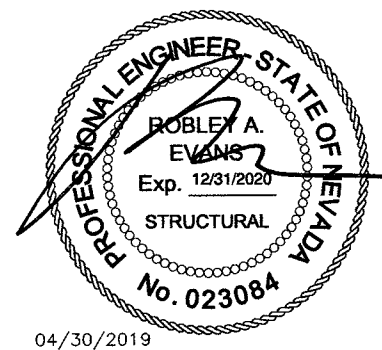
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084:1512

DRAWN BY: TPG

CHECKED BY: GAC

REV	DATE	DESCRIPTION
0	04/15/19	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.

NVL08299F_R02
INTERSECTION OF
ELKHORN RD & DUNMORE ST
LAS VEGAS, NV 89131
PICO SMALL CELL

SHEET TITLE
GENERAL NOTES, LEGEND
AND ABBREVIATIONS

SHEET NUMBER
GN-1

STRUCTURAL STEEL NOTES

- 1. DESIGN, FABRICATION, ERECTION, ALTERATION AND MAINTENANCE SHALL CONFORM TO THE FOLLOWING, UNLESS NOTED OTHERWISE (UNO).
 - A. TIA-222: STRUCTURAL STANDARD FOR ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
 - B. TIA-1019-A: INSTALLATION, ALTERATION, AND MAINTENANCE OF ANTENNA SUPPORTING STRUCTURES AND ANTENNAS
 - C. AISC: MANUAL OF STEEL CONSTRUCTION
- 2. ALL STRUCTURAL ELEMENTS SHALL CONFORM TO THE FOLLOWING REQUIREMENTS, UNO.
 - A. STRUCTURAL STEEL, ASTM A572 GRADE 65 (FY = 65 KSI).
 - B. ALL BOLTS, ASTM A325 TYPE 1 GALVANIZED HIGH STRENGTH BOLTS.
 - C. ALL NUTS, ASTM A563 CARBON AND ALLOY STEEL NUTS.
 - D. ALL WASHERS, ASTM F436 HARDENED STEEL WASHERS.
- 3. 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.
- 4. ALL FASTENERS SHALL NOT BE REUSED.
- 5. A NUT LOCKING DEVICE SHALL BE INSTALLED ON ALL PROPOSED AND/OR REPLACED ASTM A325 BOLTS.
- 6. 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.
- 7. HOT-DIP GALVANIZE ALL ITEMS, UNO.
GALVANIZE PER ASTM A123, ASTM A153/A153M OR ASTM A653 G90, AS APPLICABLE.
- 8. 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

- 1. ALL WELDING SHALL BE IN ACCORDANCE WITH THE AWS D1.1/D1.1M, "STRUCTURAL WELDING CODE-STEEL".
- 2. ALL WELDING SHALL BE PERFORMED BY AWS CERTIFIED WELDERS.
- 3. 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.
- 4. FOR ALL WELDING, USE E80XX ELECTRODES FOR SMAW PROCESS AND E8XT-XX ELECTRODES FOR FCAW PROCESS, UNO.
- 5. 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.
- 6. 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.
- 7. 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.
- 8. DO NOT WELD ON WET OR FROST-COVERED SURFACES & PROVIDE ADEQUATE PROTECTION FROM HIGH WINDS.
- 9. MOVE ALL COAX AND OTHER FLAMMABLE MATERIALS FROM ANY AREA THAT MAY BE HEATED DURING CONSTRUCTION.
- 10. 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:

- 1. 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.
- 2. 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.
- 3. 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.
- 4. 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.
- 5. BMP'S TO BE IMPLEMENTED INCLUDE BUT ARE NOT LIMITED TO:
 - A. MINIMIZE DISTURBED AREA AND PROTECT NATURAL FEATURES AND SOIL
 - B. CONTROLLING STORMWATER FLOWING ONTO AND THROUGH THE PROJECT VIA THE USE OF SEDIMENT BERMS AND STRAW WADDLES AS APPROPRIATE
 - C. STABILIZING SOILS THROUGH SITE RESTORATION AT COMPLETION OF PROJECT
 - D. PROTECTING STORM DRAIN INLETS VIA THE USE OF SAND BAGS, STRAW WADDLES AND FILTER FABRIC AS APPROPRIATE
- 6. BMP'S MUST BE IN PLACE WHEN SOILS ARE EXPOSED (NO WAITING PERIODS)

CLARK COUNTY NV PUBLIC WORKS DEVELOPMENT NOTES

- 1. 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.
- 2. 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.
- 1. INSPECTIONS SHALL BE PERFORMED BY AN ICC CERTIFIED INSPECTOR APPROVED BY CLARK COUNTY; EMPLOYED BY THE OWNER/DEVELOPER.
 - 2. PROVIDE SPECIAL INSPECTIONS IN ACCORDANCE WITH THE 2012 INTERNATIONAL BUILDING CODE FOR THE ITEMS LISTED BELOW.
 - A. MASONRY- PERIODIC
 - B. REINFORCING STEEL PLACEMENT- PERIODIC
 - C. GROUT-CONTINUOUS
 - D. CONCRETE PLACEMENT-CONTINUOUS
 - E. CONCRETE STRENGTH- CONTINUOUS
 - F. EPOXY FASTENED DOWELS AND ANCHORS-PERIODIC
 - G.
 - 3. THE INSPECTOR SHALL SUBMIT A STATEMENT TO THE OWNER/DEVELOPER, AND STRUCTURAL ENGINEER INDICATING COMPLIANCE WITH THE PLANS AND SPECIFICATIONS.
 - 4. 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



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



BLACK & VEATCH

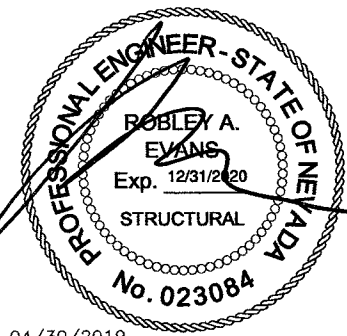
BLACK & VEATCH CORPORATION
8965 S EASTERN AVE
SUITE #325
LAS VEGAS, NV 89123

PROJECT NO: 129084:1512

DRAWN BY: TPG

CHECKED BY: GAC

0	04/15/19	ISSUED FOR CONSTRUCTION
REV	DATE	DESCRIPTION



04/30/2019

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NVL08299F_R02
INTERSECTION OF
ELKHORN RD & DUNMORE ST
LAS VEGAS, NV 89131
PICO SMALL CELL

SHEET TITLE

GENERAL NOTES

SHEET NUMBER

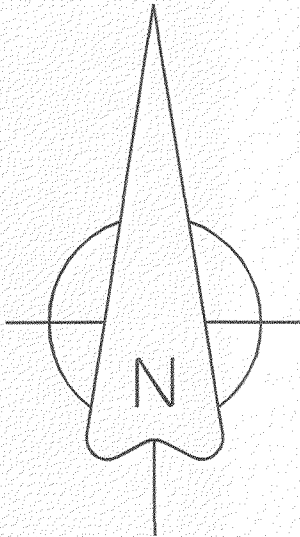
GN-3

SMALL CELL SITE SURVEY
SITE: CRAN_NVL08299F_R02
NW¼NE¼ OF SECTION 21, TOWNSHIP 19 SOUTH, RANGE 60 EAST

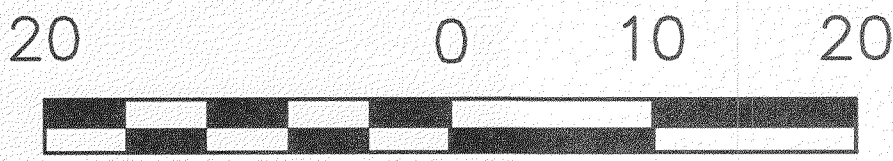
SITE #/PACE_NAME: CRAN_NVL08299F_R02_LTE_1C_1900
FA LOCATION CODE: 14856596
USID: 231624



12900 PARK PLAZA DRIVE,
CERRITOS, CA 90703



GRAPHIC SCALE



FEET

A LATITUDE: 36°17'28.47"N
LONGITUDE: 115°16'06.47"W
GROUND ELEVATION: 2454.04'
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	

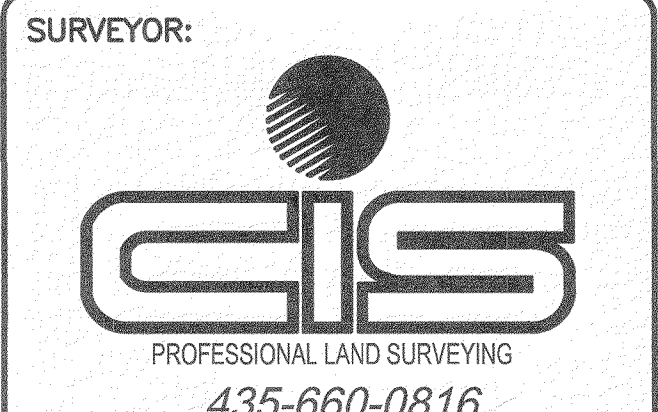
ENGINEERS:



BLACK & VEATCH
6 SUNSET WAY
SUITE B108
HENDERSON, NV 89014

SITE NO: CRAN_NVL08299F_R02		
DRAWN BY: KJC		
CHECKED BY: CIS		
REV	DATE	DESCRIPTION
A	4/2/19	PRELIMINARY SUBMITTAL

SURVEYOR:



PROFESSIONAL LAND SURVEYING
435-660-0816

CIS JOB NO:
CIS 315-1-31-88

SHEET TITLE
SMALL CELL
SITE SURVEY

SHEET NUMBER
1 OF 1