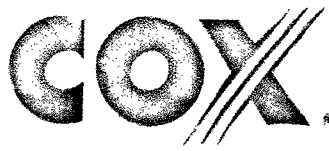


**AS-BUILT
BUILT PER PLAN**

Jason Dineen
Jason Dineen
Spectrum Services, Inc. DATE



33TM0022SMC
VG0014BA_31LAB
940.25 S GRAND CENTRAL PKWY
LAS VEGAS, NV 89106
APN: 139-33-710-002

ALL CONSTRUCTION AND MATERIAL SHALL BE IN ACCORDANCE WITH THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA NEVADA", LATEST ISSUE; THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, CLARK COUNTY AREA NEVADA", LATEST ISSUE; AND OTHER APPLICABLE APPROVED STANDARDS ISSUED BY THE CONTROLLING AGENCY; ALL LOCAL CITY CODES AND ORDINANCES APPLICABLE.

CITY OF LAS VEGAS
APPROVED FOR CONSTRUCTION

THIS APPROVAL IS FOR WORK IN CLV R/W OR CLV EASEMENTS ONLY. OBTAINING PERMISSION OR EASEMENTS FOR WORK SHOWN ON PRIVATE PROPERTY IS THE RESPONSIBILITY OF THE UTILITY.

APPROVAL: *[Signature]* DATE: *12/17/17*
L19-00231 1000/1102-CBL



VG0014BA_31LAB
33TM0022SMC
940.25 S GRAND CENTRAL PKWY
LAS VEGAS, NV 89106

GENERAL NOTES

THE FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OF EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

CONSULTANT TEAM

ARCHITECT/
ENGINEER: B+T GROUP
1717 S. BOULDER AVENUE
TULSA, OK 74119
CONTACT: VICTOR MCALISTER - PROJECT MNGR
TEL: (918) 587-4630
FAX: (918) 295-0265

CABLE OWNER/
LANDLORD: COX NEVADA TELCOM, LLC
1700 VEGAS DRIVE
LAS VEGAS, NV 89106
CONTACT: DANIELLE ETZBACH
(404) 289-3997

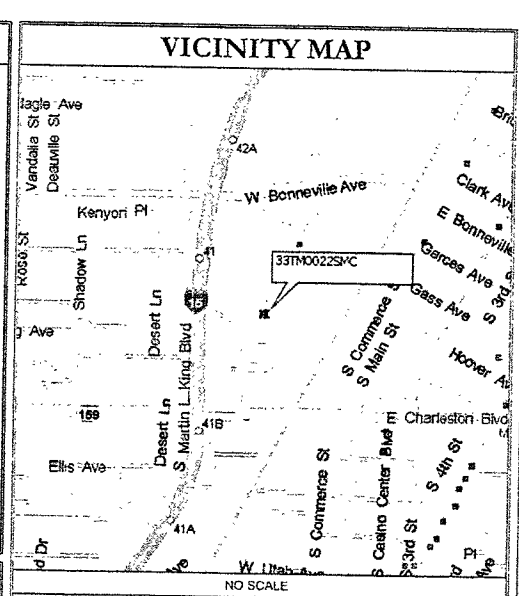
OWNER REP: COX COMMUNICATIONS
1700 VEGAS DRIVE
LAS VEGAS, NV 89106
CONTACT: ANTHONY EBERSOLE
(702) 545-1645

DEVELOPER: COX NEVADA TELCOM, LLC
ATTN: COX BUSINESS

POWER: NV ENERGY
(702) 633-8400

FIBER: COX
(702) 936-8898

TELEPHONE: CENTURYLINK
(702) 361-3332



APPROVALS

PROJECT MANAGER: _____ DATE: _____
CONSTRUCTION MANAGER: _____ DATE: _____
RF ENGINEER: _____ DATE: _____
SITE ACQUISITION: _____ DATE: _____
LANDLORD: _____ DATE: _____

SITE INFORMATION

PROPERTY OWNER: PUBLIC RIGHT-OF-WAY
APPLICANT ADDRESS: BLUESTREAM PROFESSIONAL SERVICES, LLC
33015 HIGHWAY 80 WEST
FAIRBAULT, MN 55021
(507) 334-2268

LAT/LONG TYPE: NAD 83
LATITUDE: 36.16199914'
LONGITUDE: -115.1574677'
GROUND ELEVATION: ± 2038' AMSL
JURISDICTION: CITY OF LAS VEGAS
APN: 139-33-710-002
CURRENT ZONING: N-1
EXISTING LEASE AREA: N/A
EXISTING OCCUPANCY: U
PROJECT OCCUPANCY: U
EQUIPMENT LOCATION: OUTDOOR
ANTENNA LOCATION: EXISTING STREETLIGHT

CODES

2012 INTERNATIONAL BUILDING CODE W/ NV STATE AMENDMENTS
2011 NATIONAL ELECTRICAL CODE W/ NV STATE AMENDMENTS

DO NOT SCALE DRAWINGS

CONTRACTORS SHALL VERIFY ALL PLANS, EXISTING DIMENSIONS & FIELD CONDITIONS ON THE JOB SITE & SHALL IMMEDIATELY NOTIFY THE ARCHITECT/ENGINEER IN WRITING OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK OR BE RESPONSIBLE FOR SAME.

DRIVING DIRECTIONS

DEPART COX VEGAS OFFICE ON VEGAS DR. TURN LEFT ONTO LOCAL ROAD. TURN LEFT ONTO VEGAS DR. TURN RIGHT ONTO (N) MARTIN L KING BLVD. TURN LEFT ONTO NV-159 (W CHARLESTON BLVD). TURN LEFT ONTO S GRAND CENTRAL PKWY. ARRIVE AT 33TM0022SMC.

PROJECT DESCRIPTION

END USER PROPOSES TO INSTALL EQUIPMENT ON AN EXISTING STREETLIGHT WITHIN AN EXISTING RIGHT-OF-WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL PROPOSED SMALL CELL EQUIPMENT ONTO EXISTING STREETLIGHT

DRAWING INDEX

SHEET NO:	TITLE SHEET	SHEET TITLE
T-1	TITLE SHEET	
LS-1	SITE SURVEY	
A-1	SITE PLAN & EXHIBIT PHOTO	
A-2	POLE ELEVATIONS & PLAN VIEWS	
A-3	EQUIPMENT DETAILS	
E-1	ELECTRICAL NOTES	
E-2	ELECTRICAL ONE-LINE DIAGRAM	
E-3	POWER PEDESTAL DETAILS	
E-4	POWER PEDESTAL DETAILS	
E-5	SYSTEM GROUNDING PLANS	
GN-1	GENERAL NOTES	

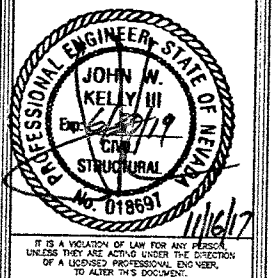
CALL NEVADA ONE CALL
(800) 227-2600
CALL 3 WORKING DAYS
BEFORE YOU DIG!

PROJECT NO: 113258.002
CHECKED BY: MEH

ISSUED FOR:

REV	DATE	DRWN	DESCRIPTION
A	6/1/17	GEH	PRELIMINARY REVIEW
B	8/16/17	RPS	PRELIMINARY REVIEW
D	8/22/17	GEH	CONSTRUCTION
1	11/16/17	BLB	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/17



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SHEET NUMBER: T-1
REVISION: 1
SHEET 1 OF 11

**AS-BUILT
BUILT PER PLAN**

Jason Dineen
Jason Dineen
Spectrum Services, Inc

DATE _____

GENERATED WITH THE USE OF
S AND DIMENSIONS SHOULD BE
D.

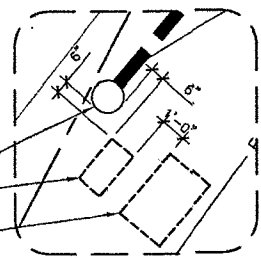
MEASUREMENTS SHOWN
HEREIN ARE BASED ON ACTUAL FIELD
MEASUREMENTS AND OBSERVATIONS
PERFORMED ON APRIL 15, 2017

LEGEND:
ROAD/EDGE OF PAVEMENT
CENTERLINE OF R.O.W.
RIGHT OF WAY
PROPERTY LINE



EXISTING STREETLIGHT LOCATION

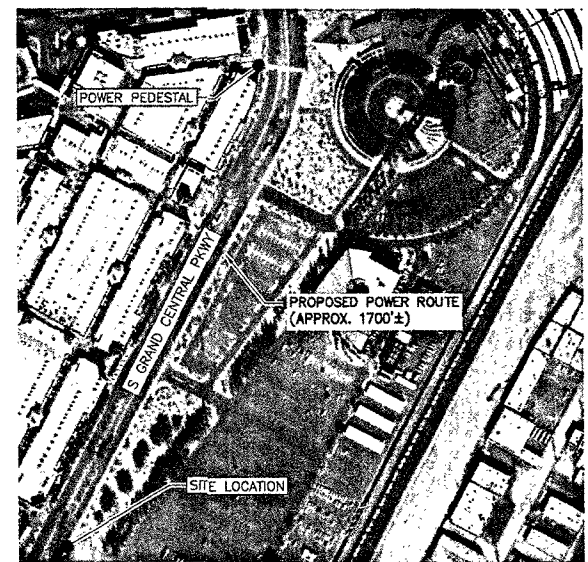
1 PHOTO ELEVATION
SCALE: N.T.S.



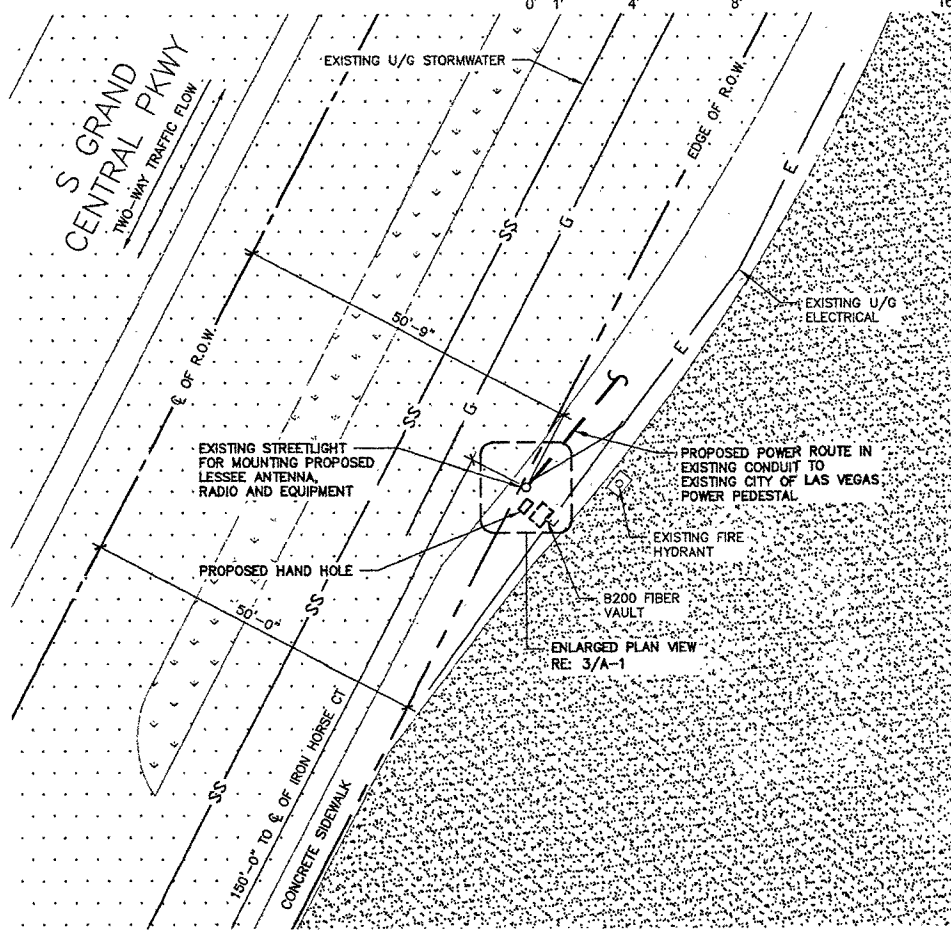
EXISTING STREETLIGHT
PROPOSED HAND HOLE
FIBER VAULT

3 HAND HOLE PLACEMENT

SCALE: 0' 4' 8' 16'



2 AERIAL SITE LOCATION
SCALE: N.T.S.



4 ENLARGED SITE PLAN

SCALE: 0' 10' 20' 30' 40'



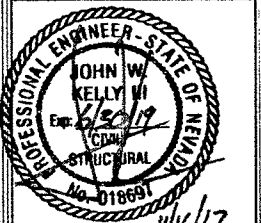
VC0014BA_311-AB
33TM0022SMC
940.25 S GRAND CENTRAL PKWY
LAS VEGAS, NV 89106

PROJECT NO: 113258.002
CHECKED BY: MEH

ISSUED FOR:

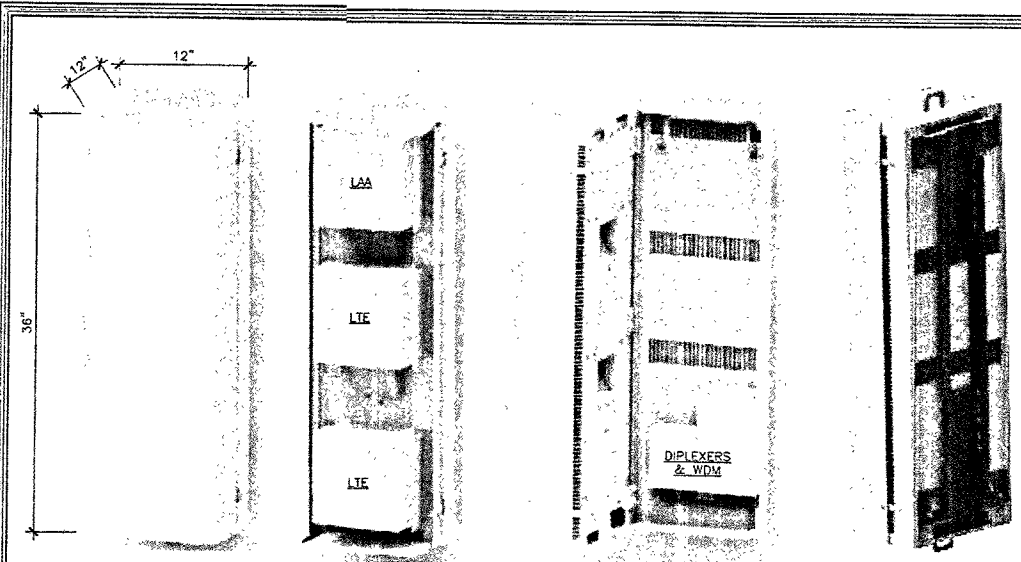
REV	DATE	DRWN	DESCRIPTION
A	6/17/17	GEN	PRELIMINARY REVIEW
B	8/16/17	RPS	PRELIMINARY REVIEW
O	8/22/17	GEN	CONSTRUCTION
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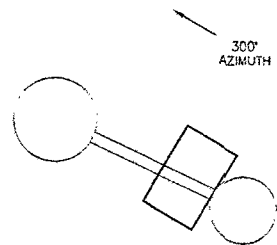
SHEET NUMBER: A-1
REVISION: 1
SHEET 3 OF 11



1 ANTENNA & RADIO MOUNT DETAIL
SCALE: N.T.S.

- Standard 3 radio (small cells) site solution
- Tech/Band support : LTE (B66 & B2) & LAA (B46)
- RRH Configuration (3 radios) : 2 x 2203 radio + 1x 2205 radio
- 2X2 MIMO support for LTE & LAA
- Integrated or External antenna option
 - Diplexers for external antenna for LTE
 - LAA radio connects directly to external antenna ports (no diplexing)
 - RF transparent cover for integrated Panel antenna configuration
 - Integrated Omni antenna option is NOT available
- Passive Wave Division Multiplexing (WDM) to leverage single pair of dark fiber
- Form factor and weight: approx. 3cu ft (LxWxD : 36x12x12 in), approx. 90lbs
- Passively Cooled. No external fans
- No Power distribution unit inside the shroud
- Light pole or Utility pole mounting brackets

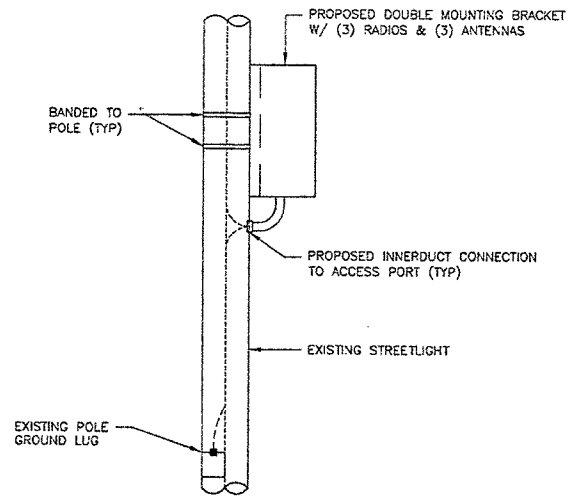
2 ERICSSON SMALL CELL SITE SOLUTION - 3 UNIT "FACE OUT"
SCALE: N.T.S.



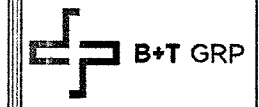
3 ANTENNA PLAN VIEW
SCALE: N.T.S.

AS-BUILT
BUILT PER PLAN

Jason Olineen
Jason Olineen
Spectrum Services, Inc. DATE



4 EQUIPMENT PLACEMENT DETAIL
SCALE: N.T.S.



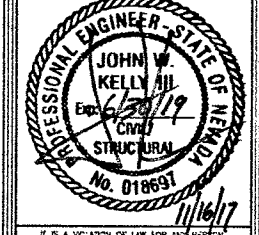
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PROJECT NO: 113258.002
CHECKED BY: MEH

ISSUED FOR:

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B	8/16/17	RPS	PRELIMINARY REVIEW
D	8/28/17	GEH	CONSTRUCTION
1	11/16/17	B.B	CONSTRUCTION

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Expires 12/31/17



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SHEET NUMBER: A-3
REVISION: 1
SHEET 5 OF 11

NOTES:

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

25. CONDUIT:

- a. RIGID CONDUIT SHALL BE U.L. LABEL GALVANIZED ZINC COATED WITH INTERIOR AND SHALL BE USED WHEN INSTALLED IN OR UNDER CONCRETE SLABS, IN CONTACT WITH THE EARTH, UNDER PUBLIC ROADWAYS, IN MASONRY WALLS OR EXPOSED ON BUILDING EXTERIOR RIGID CONDUIT IN CONTACT WITH EARTH SHALL BE 1/2 LAPPED WRAPPED WITH HUNTS WRAP PROCESS NO. 3.
 - b. ELECTRICAL METALLIC TUBING SHALL HAVE U.L. LABEL, FITTINGS SHALL BE GLAND RING COMPRESSION TYPE. EMT SHALL BE USED ONLY FOR INTERIOR RUNS.
 - c. FLEXIBLE METALLIC CONDUIT SHALL HAVE U.L. LISTED LABEL AND MAY BE USED WHERE PERMITTED BY CODE. FITTINGS SHALL BE "JACKET" OR "SQUEEZE" TYPE. SEAL TIGHT FLEXIBLE CONDUIT. ALL CONDUIT IN EXCESS OF SIX FEET IN LENGTH SHALL HAVE FULL SIZE GROUND WIRE.
 - d. ALL UNDERGROUND CONDUIT SHALL BE PVC SCHEDULE 40 (UNLESS NOTED OTHERWISE) AT A MINIMUM DEPTH OF 24" BELOW GRADE.
26. ALL ELECTRICAL EQUIPMENT SHALL BE LABELED WITH PERMANENT ENGRAVED PLASTIC LABELS.
 27. UPON COMPLETION OF WORK, CONDUCT CONTINUITY, SHORT CIRCUIT, AND FALL POTENTIAL GROUNDING TESTS FOR APPROVAL. SUBMIT TEST REPORTS TO PROJECT MANAGER. CLEAN PREMISES OF ALL DEBRIS RESULTING FROM WORK AND LEAVE WORK IN A COMPLETE AND UNDAMAGED CONDITION.
 28. CONTRACTOR TO COORDINATE WITH UTILITY COMPANY FOR CONNECTION OF TEMPORARY AND PERMANENT POWER TO THE SITE. THE TEMPORARY POWER AND ALL HOOKUP COSTS TO BE PAID BY CONTRACTOR.
 29. THE ELECTRICAL INSTALLATION WORK SHALL COMPLY WITH ALL LOCAL, STATE AND NATIONAL CODES, LAWS AND ORDINANCES APPLICABLE TO ELECTRICAL WORK.
 30. ELECTRICAL CONTRACTOR SHALL VISIT JOB SITE AND VERIFY EXISTING CONDITIONS BEFORE BIDDING AND SHALL INCLUDE IN HIS BID THE NECESSARY COSTS TO CONSTRUCT THIS PROJECT IN ACCORDANCE WITH INTENT OF THE ELECTRICAL DRAWINGS, SPECIFICATIONS, AND ALL APPLICABLE CODES.
 31. ALL MATERIAL AND EQUIPMENT FURNISHED AND INSTALLED UNDER THIS CONTRACT SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE GUARANTEED FOR A PERIOD OF ONE YEAR FROM DATE OF FINAL ACCEPTANCE BY OWNER OR HIS REPRESENTATIVE. SHOULD ANY TROUBLE DEVELOP DURING THIS PERIOD DUE TO FAULTY WORKMANSHIP, MATERIAL OR EQUIPMENT, THE CONTRACTOR SHALL FURNISH ALL NECESSARY MATERIAL AND LABOR TO CORRECT THE TROUBLE WITHOUT COST TO THE OWNER.
 32. ALL WORK TO BE EXECUTED IN WORKMANLIKE MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE WHEN COMPLETED.
 33. ALL ELECTRICAL MATERIALS AND EQUIPMENT SHALL BE LISTED BY UNDERWRITER'S LABORATORIES.
 34. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CUTTING AND PATCHING RELATED TO ELECTRICAL WORK, UNLESS NOTED OTHERWISE AND CO-ORDINATED WITH THE GENERAL CONTRACTOR.
 35. ELECTRICAL CONTRACTOR SHALL CO-ORDINATE ALL WORK WITH CIVIL AND ARCHITECTURAL PLANS. THE REQUIREMENTS OF ALL EQUIPMENT ACTUALLY BEING INSTALLED SHALL BE VERIFIED PRIOR TO INSTALLING THE ELECTRICAL WORK.
 36. ALL BRANCH CIRCUIT CONDUCTORS SHALL BE COPPER TYPE THW-2, THW-2, RHW-2, XHHW-2, #14, #12, & #10 SOLID, #8 AND LARGER STRANDED, UNLESS NOTED OTHERWISE.
 37. ON COMPLETION OF THE WORK, THE INSTALLATION SHALL BE FREE FROM GROUNDS AND SHORT CIRCUITS.
 38. ELECTRICAL CONTRACTOR SHALL FURNISH AS-BUILT DRAWINGS TO THE ARCHITECT AND CUSTOMER UPON COMPLETION OF THE JOB.
 39. ELECTRICAL WORK SHALL INCLUDE ALL LABOR, MATERIALS AND EQUIPMENT REQUIRED, INCLUDING BUT NOT LIMITED, TO COMPLETE ELECTRICAL SYSTEMS POWER AND LIGHTING, TELEPHONE CONDUIT SYSTEM, SIGNAL SYSTEMS, PANEL BOARD(S), CONTROL WIRING, GROUNDING, CONDUIT ONLY SYSTEMS, ETC., AS INDICATED ON ELECTRICAL DRAWINGS AND/OR REQUIRED BY GOVERNING CODES.
 40. RACEWAYS SHALL BE: RIGID STEEL CONDUIT: HOT-DIP GALVANIZED HEAVY WALLS AS MANUFACTURED BY REPUBLIC, TRIANGLE OR EQUAL, RIGID POLYVINYL CHLORIDE CONDUIT (PVC): HEAVY WALLS SCHEDULE 40 AS MANUFACTURED BY CARLON ELECTRICAL, VISOZEN OR EQUAL, ELECTRICAL METALLIC TUBING (EMT): ZINC-COATED THIN WALL AS MANUFACTURED BY TRIANGLE, REPUBLIC OR EQUAL.
 41. FUSE TYPE SHALL BE BUSSMANN RK-1 OR CLASS "J" FUSE.
 42. PROVIDE ENGRAVED PLASTIC LABELS TO IDENTIFY ALL PANEL BOARDS, XFMR'S, DISTRIBUTION PANELS, DISCONNECT SWITCHES, AND TRANSFER SWITCHES. LABELS SHALL READ IN THIS FASHION "A" 208Y/120V 3PH, 4W, 225A, CKT. BKR OR FUSES TYPE AND SIZES.

43. E.C. SHALL VERIFY AND TEST GROUND TO SOURCE TO A MAXIMUM OF 5 OHMS. IF THE GROUND TEST DOES NOT ACHIEVE THE 5 OHMS LESS, E.C. SHALL BE RESPONSIBLE FOR PROVIDING THE NECESSARY CONDUCTORS AND GROUND RODS TO ACHIEVE 5 OHMS MAXIMUM.
44. BEFORE SUBMITTING BID, VERIFY EXISTING SITE CONDITIONS, ELECTRICAL SERVICE REQUIREMENTS AND THE EXACT SERVING UTILITY POINTS OF CONNECTION.
45. THE ELECTRICAL CONTRACTOR (E.C.) SHALL FURNISH AND PAY FOR ALL PERMITS AND RELATED FEES.
46. UNLESS SPECIFICALLY NOTED OTHERWISE, ALL ELECTRICAL MATERIALS, EQUIPMENT AND WORK SHOWN ON THESE PLANS ARE TO BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
47. E.C. SHALL FURNISH AND INSTALL ALL SWITCHED, CONDUITS, WIRES, BOXES, LIGHT FIXTURES (INCLUDING LAMPS), SERVICE DEVICES, RECEPTACLES, SWITCHBOARDS AND PANEL BOARDS, ETC. REQUIRED FOR A COMPLETE AND OPERATING ELECTRICAL SYSTEM.
48. SEE ARCHITECTURAL DRAWINGS FOR DIMENSIONAL/LOCATION INFORMATION RELATING TO THE ELECTRICAL DRAWINGS.
49. ELECTRICAL CONTRACTOR SHALL VERIFY VOLTAGES AND HORSEPOWER RATING OF ALL MECHANICAL.
50. PRIOR TO INSTALLING ANY ELECTRICAL WORK, THE E.C. SHALL VERIFY EXACT LOCATIONS AND REQUIREMENTS ON THE JOB AND BY REFERENCE TO ARCHITECTURE, MECHANICAL AND EQUIPMENT SUPPLIERS DRAWINGS. SHOULD THERE BE ANY QUESTION OR PROBLEM CONCERNING THE NECESSARY PROVISIONS TO BE MADE, PROPER DIRECTIONS SHALL BE OBTAINED BEFORE PROCEEDING WITH ANY WORK.
51. OUTLET AND JUNCTION BOXES SHALL BE SIZED PER CODE FOR THE QUANTITY OF WIRES THEY CONTAIN. SEE ARTICLE 370 OF N.E.C. PROVIDE ADDITIONAL BOXES AND EXTENSION RINGS AS REQUIRED.
52. E.C. SHALL COMPLY WITH CABLE BENDING RADIUS REQUIREMENTS PER CABLE MANUFACTURERS SPECIFICATION.
53. CONDUIT LAYOUTS SHOWN ON THE PLANS ARE DIAGRAMMATIC, NOT INDICATING THE ROUTING REQUIRED; THE CONTRACTOR SHALL ROUTE CONDUIT AS REQUIRED BY THE CONDITIONS OF INSTALLATION.
54. ALL EQUIPMENT PROVIDED BY THE E.C. SHALL BE LISTED AND LABELED BY A NATIONALLY RECOGNIZED TESTING AGENCY ACCEPTABLE TO THE AUTHORITY HAVING JURISDICTION, FOR THE CONDITIONS OF THE INSTALLATION.
55. PLANS INDICATE THE NUMBER OF PHASE NATURAL AND GROUND CONDUCTORS WHERE MORE THAN THREE CONDUCTORS ARE TO BE INSTALLED IN A CONDUIT (THREE OR LESS CONDUCTORS ARE NOTE SHOWN). ADDITIONAL CONDUCTORS REQUIRED FOR CONTROL SHALL BE INCLUDED EVEN IF NOT EXPLICITLY SHOWN.
56. WHERE SIZE IS NOT SHOWN ON THE DRAWINGS, CIRCUITS SHALL CONSIST OF #12 PHASE AND GROUNDED (NEUTRAL CONDUCTORS) AND A #12 CU GROUND IN A 3/4" CONDUIT.
57. UNLESS SPECIFICALLY NOTED OTHERWISE, THE E.C. SHALL MAKE FINAL CONNECTIONS TO ALL UTILIZATION EQUIPMENT SHOWN ON THE DRAWINGS. VERIFY THE TYPE OF FINAL CONNECTION AND PROVIDE APPROPRIATE WIRING METHOD.
58. PRIOR TO TRENCHING IN ANY AREA, THE CONTRACTOR SHALL CONTACT ELECTRICAL, COMMUNICATIONS/DATA, CABLE TV, GAS AND WATER UTILITY PROVIDERS (BLUE STRIKE) AND HAVE ALL UTILITIES IN THE AREA IDENTIFIED. IN ADDITION, THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A SUBCONTRACTOR SPECIALIZING IN THE LOCATION OF UNDERGROUND STRUCTURES TO IDENTIFY ANY OBSTACLES IN THE PATH OF TRENCHING (PRIOR TO COMMENCING ANY WORK). DAMAGE TO ANY UNDERGROUND STRUCTURES SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE PROJECT.
59. ANY AND ALL WIRE THAT CARRIES A CURRENT MUST BE IN A CONDUIT. (GROUNDING WIRE FOR LOOPS, HALOS, ETC., IS CONSIDERED NON-CURRENT CARRYING)

**AS-BUILT
BUILT PER PLAN**

Jason Dineen

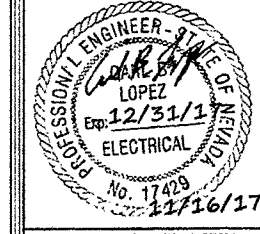
Jason Dineen DATE
Spectrum Services, Inc



VC0014BA_311.AB
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 940125 S GRAND CENTRAL PKWY
 LAS VEGAS, NV 89106

PROJECT NO:	113258.002		
CHECKED BY:	MEH		
ISSUED FOR:			
REV	DATE	DRWN	DESCRIPTION
A	6/1/17	GEH	PRELIMINARY REVIEW
B	8/15/17	RPS	PRELIMINARY REVIEW
C	8/22/17	GEH	CONSTRUCTION
1	11/16/17	B.B	CONSTRUCTION

B&T ENGINEERING, INC.
12685
Expires 12/31/17



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SHEET NUMBER:	REVISION:
E-1	1
SHEET 6 OF 11	

SITE NAME:		PROPOSED ELECTRICAL LOADING														
PANEL DESIGNATION:																
CITY OF LAS VEGAS LIGHTING PEDESTAL																
		SUPPLY VOLTAGE: 120 V														
		PHASE: 2														
		WRE: 5														
CKT	LOAD DESCRIPTION	BREAKER AMPS	BREAKER POLES	BREAKER STATUS	SERVICE LOAD VA	USAGE FACTOR	BREAKER AMPS	PHASE A VA	PHASE B VA	USAGE FACTOR	SERVICE LOAD VA	BREAKER STATUS	BREAKER POLES	BREAKER AMPS	LOAD DESCRIPTION	CKT
1	ERICSSON RADIO 2203 & 2205	20	1	ON	300	1.00	300									2
NOTES:		PHASE A TOTAL VA 300 PHASE B TOTAL VA 0 TOTAL EVA 0.50 TOTAL AMPS 2.50														

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

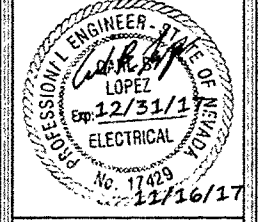


VG0014BA_311LAB
 33TM0022SMC
 940.25 S GRAND CENTRAL PKWY
 LAS VEGAS, NV 89106

PROJECT NO: 113353.002
 CHECKED BY: MCH

REV	DATE	DRWN	DESCRIPTION
A	6/17/17	JDM	PRELIMINARY REVIEW
B	5/16/17	RPS	PRELIMINARY REVIEW
D	8/22/17	SEB	CONSTRUCTION
T	11/16/17	BLB	CONSTRUCTION

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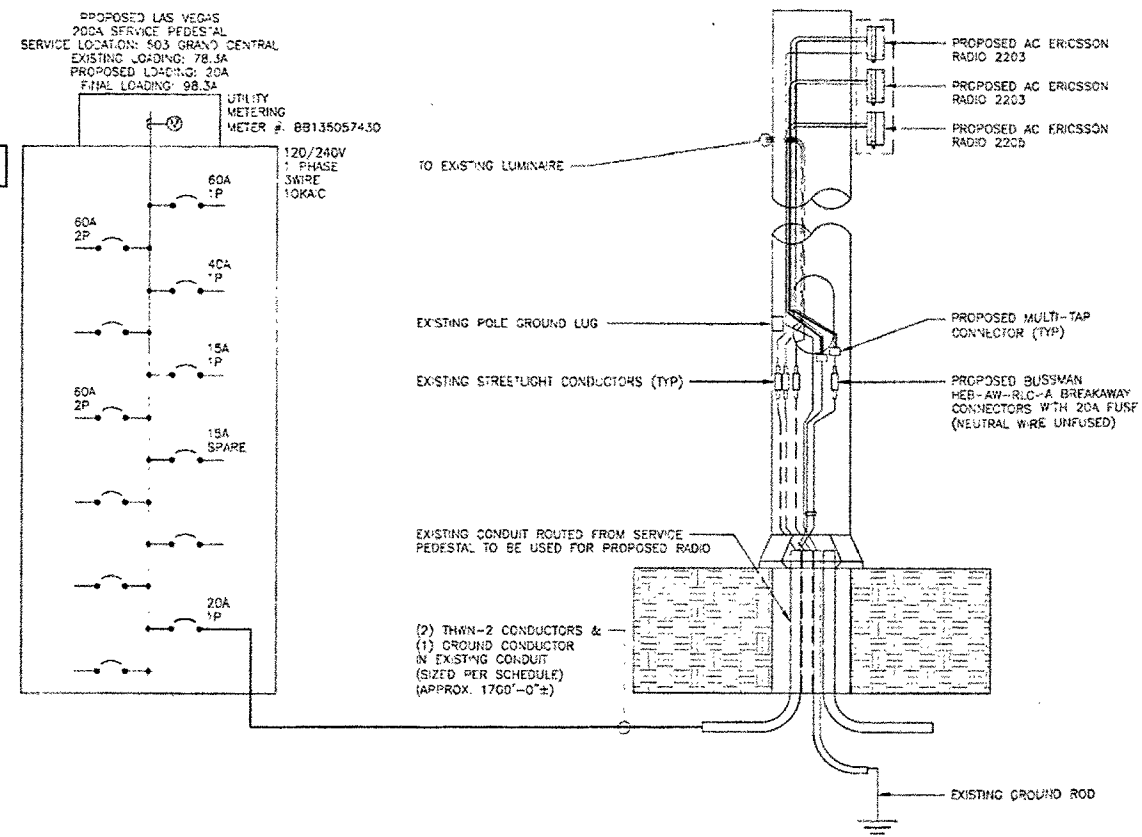


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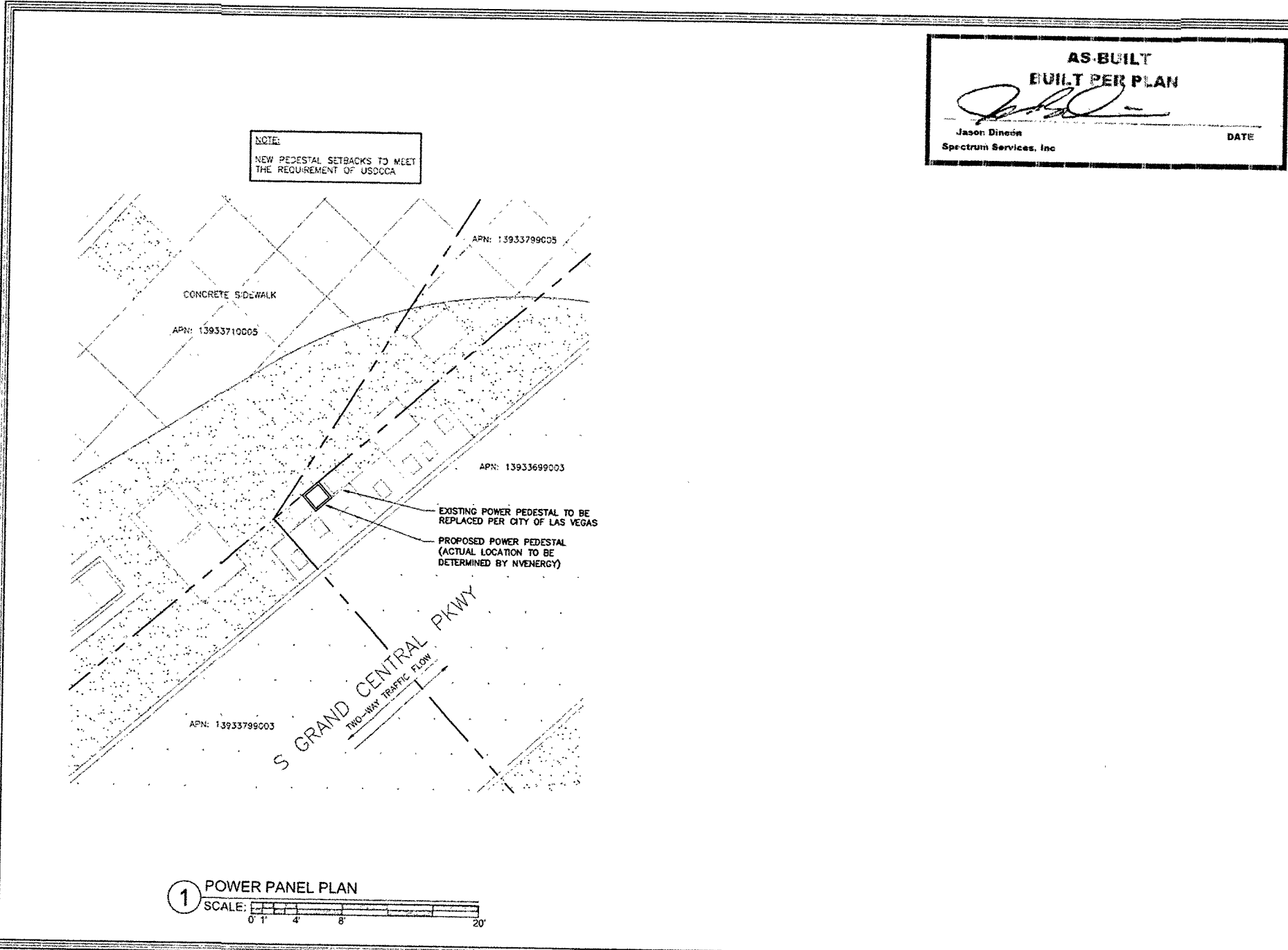
SHEET NUMBER:	REVISION:
E-2	1
SHEET 2 OF 11	

AS-BUILT
BUILT PER PLAN
 Jason Dineson
 Spectrum Services, Inc.
 DATE: _____

CONDUCTOR SIZE	GROUND SIZE	MAX DISTANCE	% OF VOLTAGE DROP
#14 AWG	#12 AWG	260'-0"	2.93% VOLT DROP @ 2.5A
#12 AWG	#12 AWG	400'-0"	3.02% VOLT DROP @ 2.5A
#10 AWG	#10 AWG	675'-0"	2.99% VOLT DROP @ 2.5A
#8 AWG	#8 AWG	1500'-0"	2.95% VOLT DROP @ 2.5A
#6 AWG	#6 AWG	2700'-0"	3.00% VOLT DROP @ 2.5A
#4 AWG	#4 AWG	2700'-0"	2.97% VOLT DROP @ 2.5A



1 ELECTRICAL ONE LINE DIAGRAM
 SCALE: N.T.S.



**AS-BUILT
BUILT PER PLAN**

Jason Dineen
Jason Dineen
Spectrum Services, Inc. DATE



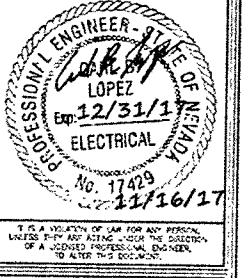
VC0014BA_311.AB
33TM0022SMC
940.25 S GRAND CENTRAL PKWY
LAS VEGAS, NV 89106

PROJECT NO. 113258.002
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F	11/16/17	B.B	CONSTRUCTION

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12685
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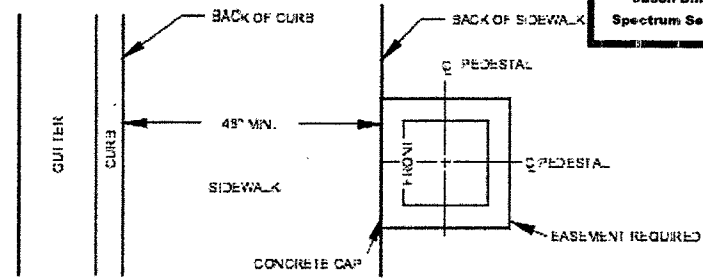
SHEET NUMBER: E-3
REVISION: 1
SHEET 8 OF 11

1 POWER PANEL PLAN
SCALE: 0' 1' 4' 8' 20'

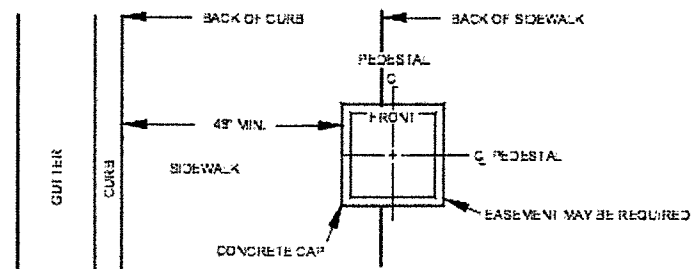
**AS-BUILT
BUILT PER PLAN**

Jason Dineen
Spectrum Services, Inc.

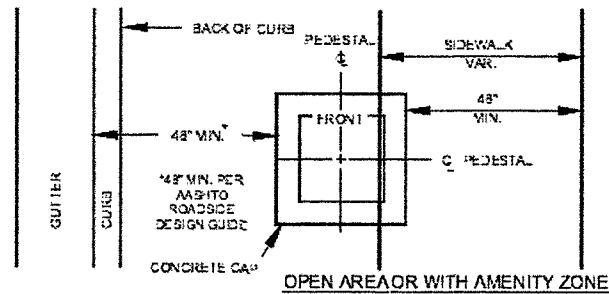
DATE



BEHIND SIDEWALK (FOR WIDTHS LESS THAN 5 FT.)

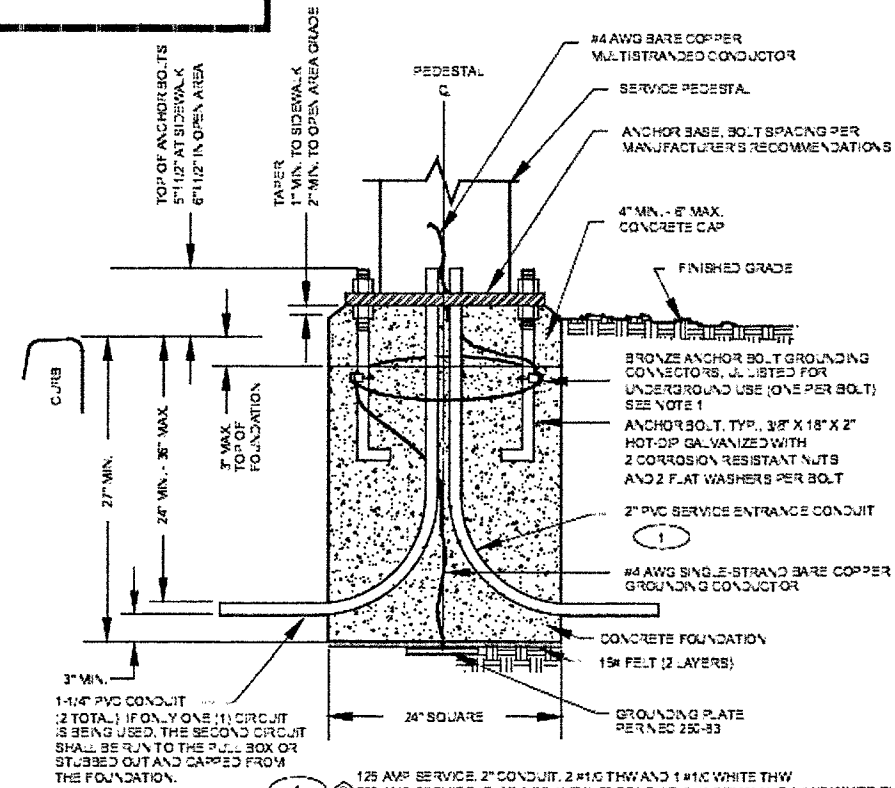


BACK PORTION OF SIDEWALK (FOR WIDTHS OF 5 FT. OR GREATER)



OPEN AREA OR WITH AMENITY ZONE

1 SERVICE PEDESTAL SETBACK
SCALE: N.T.S.



1-1/4\"/>

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 RAW 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.

USDOCA DRAWING #332

2 SERVICE PEDESTAL FOUNDATION
SCALE: N.T.S.



VC0014BA_311.AB

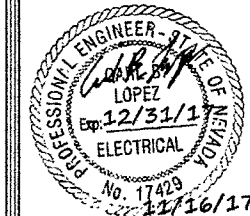
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B&T ENGINEERING, INC.
12885
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SHEET NUMBER: E-4
REVISION: 1
SHEET 9 OF 11



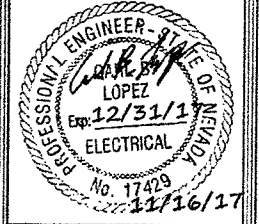
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PROJECT NO: 113258.002
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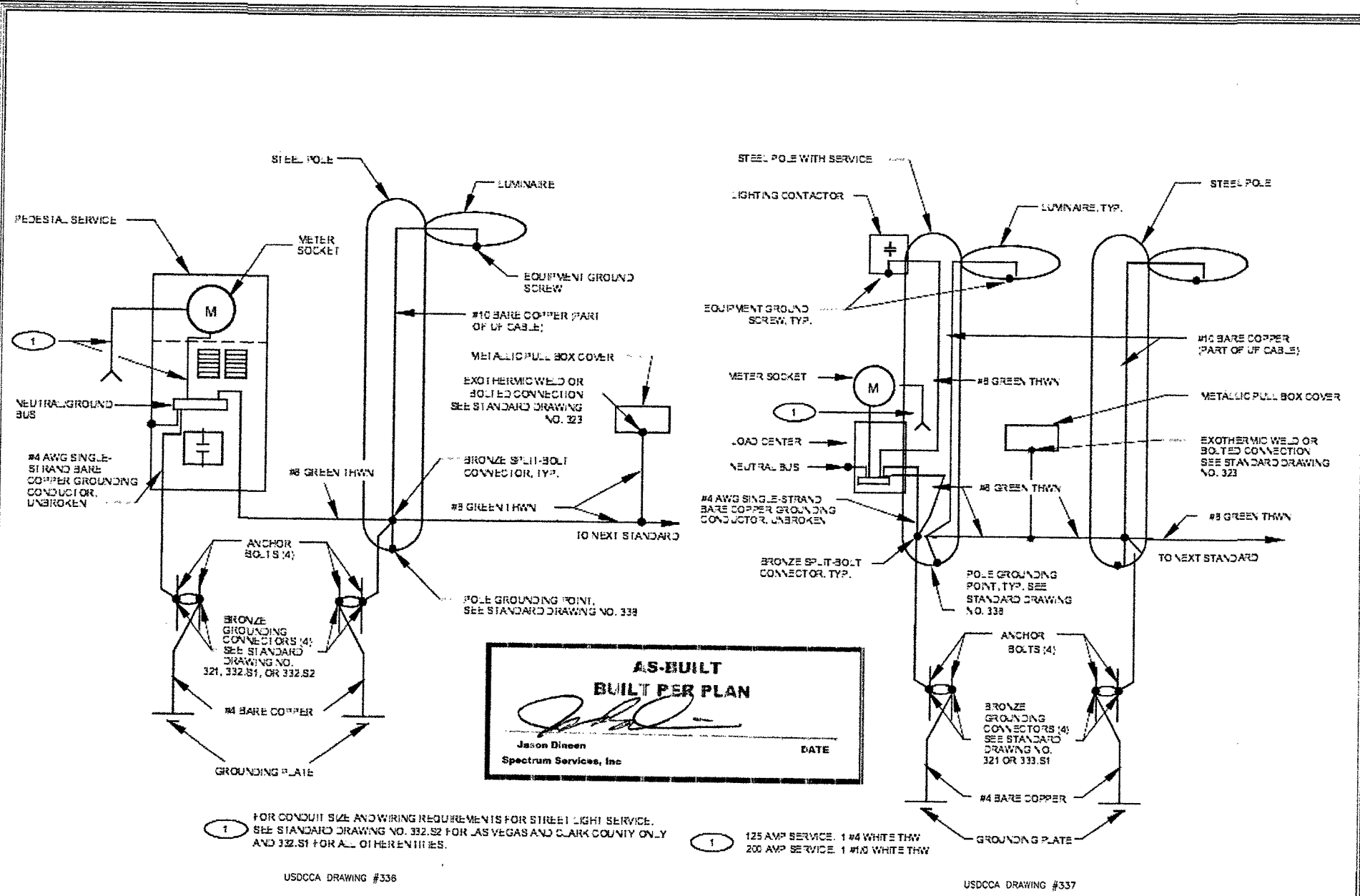
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SHEET NUMBER: E-5	REVISION: 1
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SHEET 10 OF 11



1 SYSTEM GROUNDING PLAN WITH PEDESTAL SERVICE
 SCALE: N.T.S.

2 SYSTEM GROUNDING PLAN WITH POLE MOUNTED SERVICE
 SCALE: N.T.S.

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

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

USDCCA DRAWING #336

USDCCA DRAWING #337

