

CROWN CASTLE  
TITLE SHEET



NODE ID: CA002\_CLC\_CULVER\_023  
11622 PORT RD, CULVER, CA, 90230  
JURISDICTION: CITY OF CULVER  
POLE ID: GT72469

LATITUDE: 33.991039°, LONGITUDE: -118.403864°

NODE ID:  
CA002\_CLC\_CULVER\_023

NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
POLE ID: GT72469  
POLE OWNER: VERIZON  
POWER PROVIDER: SCE  
HUB ID: 124780 (MARINA MTSO)  
CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER  
MARINA MTSO\_35 NODES  
LATITUDE: 33.991039°  
LONGITUDE: -118.403864°  
NEAREST ADDRESS: 11622 PORT RD  
AZIMUTH: 120°, 240°, 0°



IF YOU DIG IN ANY STATE  
DIAL 811 FOR THE LOCAL  
"ONE CALL CENTER" -  
IT'S THE LAW

THE UTILITIES SHOWN HEREIN ARE FOR THE CONTRACTORS  
CONVENIENCE ONLY. THERE MAY BE OTHER UTILITIES NOT  
SHOWN ON THESE PLANS. THE ENGINEER/SURVEYOR ASSUMES  
NO RESPONSIBILITY FOR THE LOCATIONS SHOWN AND IT SHALL BE  
THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL THE  
UTILITIES WITHIN THE LIMITS OF THE WORK. ALL DAMAGE MADE TO  
THE (E) UTILITIES BY THE CONTRACTOR SHALL BE THE SOLE  
RESPONSIBILITY OF THE CONTRACTOR.

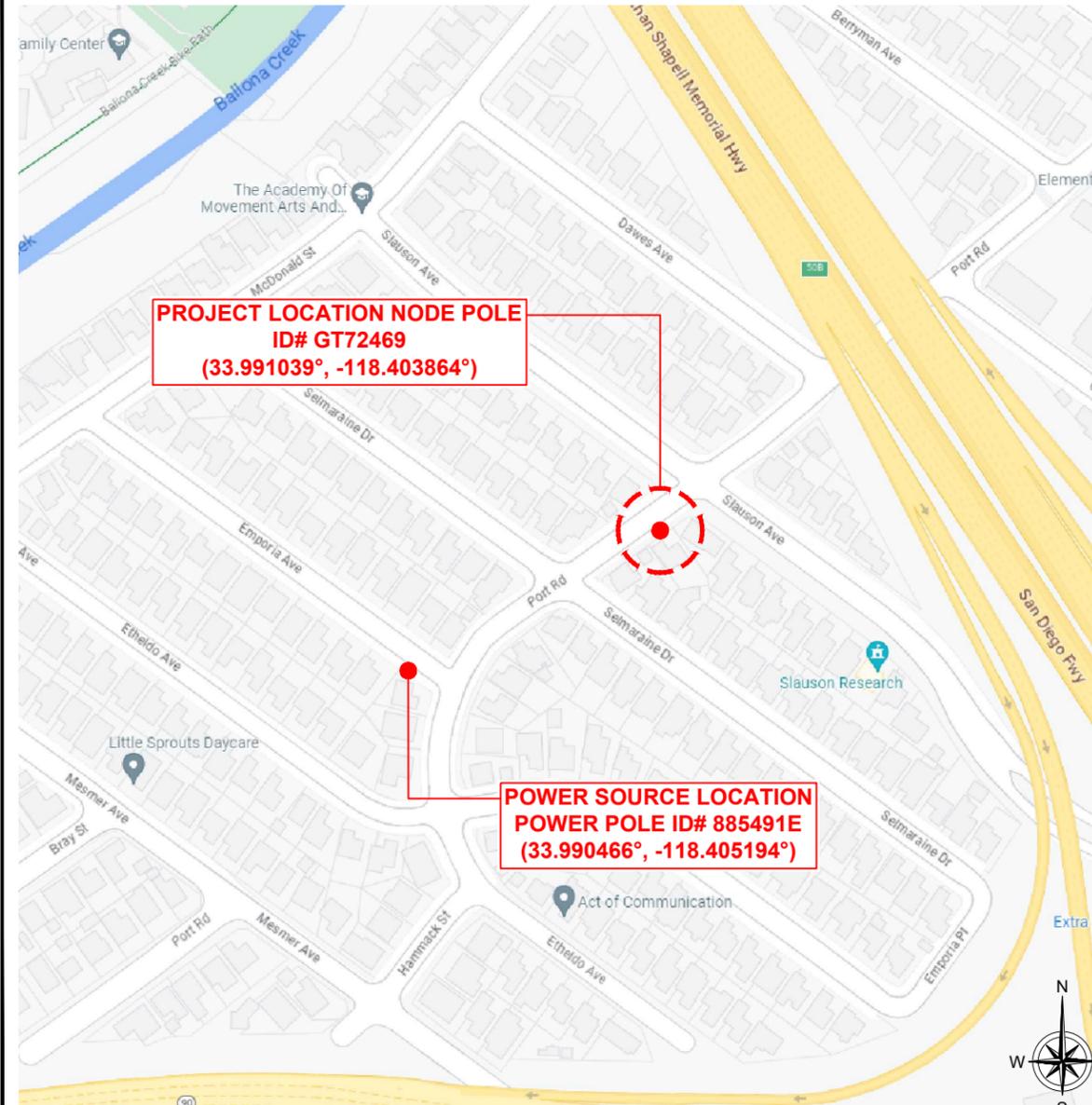
POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
POLE OWNER: SCE  
LATITUDE: 33.990466°  
LONGITUDE: -118.405194°  
WTR ADDRESS: 11701 7/8 PORT RD

SITE EXHIBIT PHOTO



LOCATION MAP



PROJECT TEAM

CROWN CASTLE PROJECT DELIVERY MANAGER:  
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IRVINE, CA 92618  
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CROWN CASTLE CONSTRUCTION MANAGER:  
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CROWN CASTLE UTILITY RELATIONS:  
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200 SPECTRUM CENTER DR. STE. 1700  
IRVINE, CA 92618

SCOPE OF WORK

- EQUIPMENT TO BE INSTALLED:
- PROPOSED (3) INTEGRATED 5G ANTENNAS
  - PROPOSED ANTENNA ARM
  - PROPOSED ANTENNA ARM MOUNT
  - PROPOSED (2) 2" POWER PVC RISERS
  - PROPOSED RF CAUTION SIGNAGE
  - PROPOSED RF NOTICE SIGNAGE
  - PROPOSED FIBER TAP DROP
  - PROPOSED (2) 5/8"Ø X 8' GROUND ROD
  - PROPOSED B-LINE BOX WITH SPI
  - PROPOSED DONGAN BUCK AND BOOST
  - PROPOSED LOAD CENTER
  - PROPOSED FRONTHAUL (FUTURE)
  - PROPOSED 40' CLASS 4 WOOD POLE

- POWER POLE:
- PROPOSED DONGAN BUCK AND BOOST
  - PROPOSED B-LINE BOX WITH SPI
  - PROPOSED WTR BOX
  - PROPOSED 1" POWER PVC RISER AND SERVICE
  - PROPOSED 2" POWER PVC RISER
  - PROPOSED (2) 5/8"Ø X 8' GROUND ROD
  - PROPOSED GUARD ARM

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ENGINEER:

**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:

**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
CROWN CASTLE  
POLE #: GT72469

REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER: CA002\_CLC\_CULVER\_023

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DATE DRAWN: 08/31/2023

SCALE: AS SHOWN

T-1

# CROWN CASTLE GENERAL NOTES

NODE ID:  
**CA002\_CLC\_CULVER\_023**

## EROSION AND SEDIMENT CONTROL NOTES:

TEMPORARY EROSION/SEDIMENT CONTROL PRIOR TO COMPLETION OF FINAL IMPROVEMENTS SHALL BE PERFORMED BY THE CONTRACTOR OR QUALIFIED PERSON AS INDICATED BELOW:

- ALL REQUIREMENTS OF THE CITY OF CULVER LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED PUBLIC IMPROVEMENTS CONSISTENT WITH THE EROSION CONTROL PLAN AND/OR WATER POLLUTION CONTROL PLAN (WPCP), IF APPLICABLE.
- FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
- THE CONTRACTOR OF QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
- EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAIN SEASON.
- THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL DEVICES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
- THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
- ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HERON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
- ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
- THE CONTRACTOR WILL ARRANGE FOR WEEKLY MEETINGS DURING OCTOBER 1ST TO APRIL 30TH FOR PROJECT TEAM (GENERAL CONTRACTOR, QUALIFIED PERSON, EROSION CONTROL SUBCONTRACTOR IF ANY, ENGINEER OF WORK, OWNER/DEVELOPER AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

## NOTES:

- CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
- CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
- SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
- CONTRACTOR REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
- CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
- THE CONTRACTION SHALL RESTORE THE ROADWAY BACK TO ITS ORIGINAL CONDITION SATISFACTORY TO THE CITY ENGINEER INCLUDING, BUT NOT LIMITED TO PAVING, STRIPING, BIKE LANES, PAVEMENT LEGENDS, SIGNS, AND TRAFFIC LOOP DETECTORS.
- SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF CULVER STANDARD DRAWINGS.
- PEDESTRIAN RAMP WILL NOT BE DISTURBED.
- SEPARATE PERMIT WILL BE REQUIRED FROM DEPARTMENT OF ENGINEERING FOR EXCAVATION AND TRAFFIC CONTROL.
- REPAIR OR REPLACE ANY DISTURBED OR DAMAGED LANDSCAPE IN PARKWAY AREAS DUE TO MAINTENANCE AND/OR POLE REPLACEMENT.
- PROTECT EXISTING TREES IN PLACE.
- IN THE EVENT OF A RECORDED RULE 20 INITIATIVE, CROWN CASTLE WILL TAKE PROMPT ACTION TO UNDERGROUND OUR EXISTING AERIAL CABLING AND RELOCATE OR REDESIGN EXISTING SMALL CELLS TO ALIGN WITH THE RULE 20 PLAN.

## ROW GROUND CONSTRUCTION NOTES:

- GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, G095 AND G0128 STANDARDS AND REGULATIONS.
- CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 277-2600 OR 811.
- ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
- ALL EQUIPMENT TO BE BONDED.
- METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
- CAULK CABINET BASE AT PAD.

## NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

- LOCATION AND DEPTH OF EXISTING AND PROPOSED UTILITIES MUST BE PROVIDED BY THE SUBDIVIDER AND SHOWN ON ANY PLANS SUBMITTED TO THE CITY OF CULVER DEPARTMENT OF ENGINEERING, FOR APPROVAL.
- CHANGES MAY BE PERMITTED BY THE CITY OF CULVER DEPARTMENT OF ENGINEERING, IN CASES OF CONFLICTING FACILITIES.
- CONFLICTS BETWEEN UTILITY OF COMPANIES FACILITIES, EXISTING AND PROPOSED, MUST BE MUTUALLY RESOLVED BY THE UTILITY COMPANIES.
- FOR COMMERCIAL SIDEWALKS, THE FIRE HYDRANT SHALL BE PLACED WITHIN THE SIDEWALK 1'-6" BEHIND FACE OF CURB.
- MAXIMUM 2" DIAMETER GAS MAINS MAY BE PLACED IN JOINT UTILITIES TRENCH SUBJECT TO APPROVAL OF CITY ENGINEER (IN TRACTS).

## CALIFORNIA STATE CODE COMPLIANCE:

ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

- 2022 CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2010
- 2022 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2014 UBC, 2015 UMC, 2015 UPC AND THE 2014 NEC.
- BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
- 2022 CALIFORNIA MECHANICAL CODE
- ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2022 CALIFORNIA PLUMBING CODE
- 2022 CALIFORNIA ELECTRICAL CODE
- CURRENT LOCAL BUILDING CODE
- CURRENT CITY/COUNTY ORDINANCES

ACCESSIBILITY REQUIREMENTS:  
FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2022 CALIFORNIA BUILDING CODE.

FCC NOTE:  
THIS WIRELESS COMMUNICATION FACILITY COMPLIES WITH FEDERAL STANDARDS FOR RADIO FREQUENCY IN ACCORDANCE WITH THE TELECOMMUNICATION ACT OF 1996 AND SUBSEQUENT AMENDMENTS AND ANY OTHER REQUIREMENTS IMPOSED BY STATE OR FEDERAL REGULATORY AGENCIES.

## GENERAL NOTES

- ALL WORK SHALL CONFORM TO THE LATEST BOARD OF PUBLIC WORKS OF THE CITY OF CULVER ADOPTED EDITION AND SUPPLEMENTS TO THE "GREENBOOK STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" AS MODIFIED BY THE CORRESPONDING ISSUE OF THE BROWN BOOK, THE LATEST EDITION OF THE BUREAU OF STREET LIGHTING "SPECIAL SPECIFICATIONS", AND THE SPECIAL PROVISIONS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING THE CONDITION OF ALL EXISTING EQUIPMENT TO BE REUSED, MODIFIED OR RETURNED TO THE BUREAU OF STREET LIGHTING YARD.

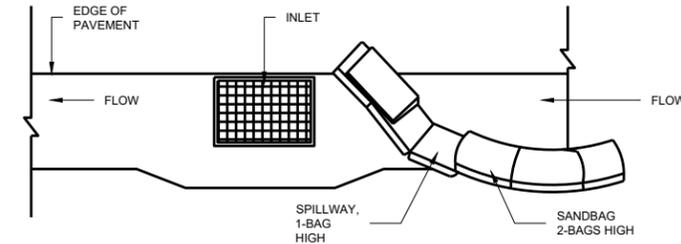
## MULTIPLE CIRCUIT NOTES

- WIRE CONNECTORS - WIRE CONNECTORS SHALL BEAR THE UNDERWRITERS LABORATORY SEAL OF APPROVAL. THE INSTALLATION PROCEDURE, INCLUDING CONNECTOR SIZE AND CRIMPING TOOLS SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS. GENERALLY, BULKY OR ODD SHAPE CONNECTORS, NARROW CONNECTORS WHICH MAY DAMAGE THE WIRE, OR TWIST-ON AND SPLIT-BOLT TYPE CONNECTORS WILL NOT BE ALLOWED. THE MECHANICAL PERFORMANCE OF THE CONNECTOR SHALL BE SUCH THAT NO FREE PLAY CAN BE OBSERVED AFTER THE CONNECTOR IS SUBJECTED TO A COMBINATION OF HAND-APPLIED TWISTS AND PULLS. A SOLID CROSS SECTION WILL ALSO BE REQUIRED WHEN THE CONNECTOR IS SUBJECT TO SAW CUTTING. ALL WIRE CONNECTORS SHALL HAVE A NOMINAL CROSS SECTION ARE EQUIVALENT TO THE AREA OF THE LARGEST CONDUCTOR CONNECTED.

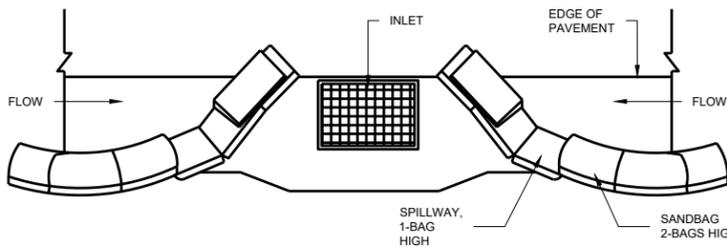
## GENERAL REQUIREMENT - UNDERGROUND UTILITY AVOIDANCE

- GENERAL CONTRACTOR RESPONSIBLE TO FOLLOW ALL FEDERAL & STATE STATUTES AND REGULATIONS; INDUSTRY BEST PRACTICES; BUILDING AND FIRE CODES; GENERAL CONTRACTOR LICENSES; AND LOCAL LAWS, REGULATIONS & ORDINANCES. IN THE EVENT A CONFLICT EXISTS BETWEEN THESE REGULATIONS AND THIS DOCUMENT, THE REGULATIONS SHALL CONTROL THE GENERAL CONTRACTOR'S ACTIONS.
- AT THE MINIMUM, WHEN NOT IN CONFLICT WITH FEDERAL, STATE, AND LOCAL STATUTES, THE GENERAL CONTRACTOR SHALL FOLLOW THE "COMMON GROUND ALLIANCE (CGA) BEST PRACTICES VERSION 17.0 MANUAL OR LATEST - THE DEFINITIVE GUIDE FOR UNDERGROUND SAFETY & DAMAGE PREVENTION RECOMMENDATIONS.
- GENERAL CONTRACTOR SHALL PREPARE AN EMERGENCY RESPONSE PLAN, INCLUDING APPROPRIATE CONTACT INFORMATION, ONE CALL TICKET DETAILS, AND IMMEDIATE CONTACTING DETAILS, IN EVENT OF UNDERGROUND UTILITY DAMAGE, IS AVAILABLE AT THE INSTALLATION SITE.
- GENERAL CONTRACTOR SHALL TAKE NECESSARY MEASURES TO ENSURE ALL ELECTRICAL STRIKE SYSTEMS ARE IN PLACE, IF APPLICABLE, AND HAS BRIEFED THE INSTALLATION CREW ON THE GENERAL CONTRACTORS ELECTRICAL AND GAS LINE STRIKE PROCEDURES EACH DAY PRIOR TO WORK COMMENCING.
- GENERAL CONTRACTOR SHALL WHITE LINE THE PROPOSED CONSTRUCTION ROUTE PRIOR TO CONTACTING THE UTILITY ONE-CALL SYSTEM.
- GENERAL CONTRACTOR SHALL IDENTIFY PRIOR TO WORK COMMENCEMENT, A COMPETENT PERSON ON THE WORK CREW WHO IS CAPABLE OF IDENTIFYING HAZARDS AND HAS THE AUTHORIZATION TO TAKE PROMPT CORRECTIVE MEASURES, INCLUDING STOP WORK AUTHORITY, TO ELIMINATE THEM, AND SHALL BE ON SITE AT ALL TIMES.
- GENERAL CONTRACTOR SHALL CONTACT THE ONE CALL FACILITY FOR EXISTING UTILITY LOCATES AS REQUIRED BY LAW AND PRESERVE ALL MARKS UNTIL THE PROJECT IS COMPLETED AND REFRESH THE ONE CALL IF REQUIRED BY STATE OR JURISDICTIONAL REQUIREMENTS.
- FOR PROJECTS WITH HIGH PRIORITY UTILITIES, OR ANY UNUSUAL OR COMPLEX CONSTRUCTION, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRE-EXCAVATION MEETING WITH THE AFFECTED UTILITIES AND/OR THEIR DESIGNATED LOCATING COMPANY TO DISCUSS THE PROJECT. HIGH PRIORITY UTILITIES SHALL INCLUDE, BUT NOT LIMITED TO, HIGH-PRESSURE GAS LINES, HIGH-VOLTAGE ELECTRIC LINES, MAJOR PIPELINES, MAJOR WATER LINES, AND HIGH-CAPACITY FIBER OPTIC LINES.
- THE GENERAL CONTRACTOR SHALL ENSURE ANY UTILITIES IDENTIFIED FOR LOCATING WHICH ARE NOT MARKED ON THE GROUND HAVE PROVIDED POSITIVE CONFIRMATION NO CONFLICT EXISTS. IF THERE IS A LACK OF POSITIVE CONFIRMATION, THE GENERAL CONTRACTOR MUST RE-CALL THE ONE-CALL CENTER OR RELEVANT UTILITY DIRECTLY FOR CONFIRMATION.
- IN THE EVENT A UTILITY CANNOT BE RELOCATED, WHERE POSITIVE CONFIRMATION IS NOT RECEIVED, OR WHERE THERE IS A LIKE LIKELIHOOD OF UNDOCUMENTED UTILITIES, SUCH AS PRIVATE INFRASTRUCTURE, THE GENERAL CONTRACTOR SHALL TAKE THE STEP OF SYSTEMATICALLY UTILIZING A GROUND PENETRATING RADAR (GPR) SYSTEM OR SIMILAR ADVANCED LOCATING TECHNOLOGY WITHIN THE TOLERANCE ZONE TO IDENTIFY AND DOCUMENT ANY UTILITIES WITHIN THE CONSTRUCTION ZONE. ANY UTILITY LOCATED USING GPR SHALL BE PROPERLY LOCATED AND EXPOSED AS OUTLINED WITHIN THIS STANDARD PRIOR TO DIGGING.
- THE GENERAL CONTRACTOR SHALL INSPECT THE AREA, PRIOR TO INSTALLATION FOR ANY UNDERGROUND UTILITY INFRASTRUCTURE WHICH MAY HAVE BEEN MISSED BY SURVEYING THE CONSTRUCTION AREA AND SURROUNDING ENVIRONMENT FOR CLEANOUTS, SUNKEN AREAS, RISERS, OUTBUILDINGS, LIGHT POLES, METERS, UTILITY BOXES, PEDESTALS, MANHOLE COVERS, MARKERS, ETC. PARTICULAR ATTENTION SHOULD BE MADE TO IDENTIFY SERVICE FEEDS FROM BUILDINGS AND HOMES ARE MARKED.
- THE GENERAL CONTRACTOR SHALL CONTACT ANY UTILITY WHERE LOCATES ARE IN QUESTION AND/OR UNVERIFIED. NO ASSUMPTIONS SHOULD BE MADE ON LOCATION OR DEPTH OF EXISTING UTILITIES.
- THE GENERAL CONTRACTOR AT MINIMUM SHALL TAKE AND STORE A PHOTO SERIES TO BE SUBMITTED WITH THE CLOSE OUT PACKAGE OF ALL EXCAVATION AREAS ONCE LOCATES ARE COMPLETE AND PRIOR TO EXCAVATION.
- GENERAL CONTRACTOR SHALL MEET ALL FEDERAL, STATE, AND LOCAL REGULATIONS REGARDING WORKER SAFETY AND TRAINING WHEN WORKING AROUND UNDERGROUND FACILITIES.
- GENERAL CONTRACTOR SHALL VISUALLY EXPOSE (POT-HOLE) ALL EXISTING UTILITIES CROSSING THE TOLERANCE ZONE AND SHALL POSITIVELY IDENTIFY THEIR LOCATION AND DEPTH USING APPROPRIATE TECHNIQUES WITHIN THE TOLERANCE ZONE.
- GENERAL CONTRACTOR SHALL VISUALLY EXPOSE (POT-HOLE) ALL EXISTING UTILITIES RUNNING PARALLEL WITH THE PROPOSED PATH AT THE APPROPRIATE INTERVALS WITHIN THE TOLERANCE ZONE AND APPROPRIATE BUFFER ZONE. UNLESS MORE STRINGENT REGULATIONS EXIST, THE GENERAL CONTRACTOR SHALL EXPOSE (POT-HOLE) AT MINIMUM ANY PARALLEL UTILITY WITHIN 3' OF THE TOLERANCE ZONE EVERY 25', AND ANY PARALLEL UTILITY BETWEEN 3' TO 5' OF THE TOLERANCE ZONE EVERY 100'.
- THE TOLERANCE ZONE SHALL BE A MINIMUM OF 30' BEYOND EACH SIDE OF THE INSTALLED PIPE, OR GREATER IF CODE REQUIRES.
- GENERAL CONTRACTOR SHALL USE A DRILL HEAD TRACKING DEVICE WHEN BORING AND TRACK THE DRILL HEAD AT MINIMUM OF EVERY 5' OR AS REQUIRED BY CODE. A LOG SHALL BE CREATED RECORDING THE LOCATION AND DEPTH AND SUBMITTED WITH THE GENERAL CONTRACTOR AS-BUILT PACKAGE.
- GENERAL CONTRACTOR SHALL ENSURE THESE REQUIREMENTS ARE ENFORCED WITH ALL SUB-CONTRACTORS RETAINED BY THE GENERAL CONTRACTOR.

## STORM DRAIN INLET PROTECTION



## TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION



## TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS

## NOTES:

- INTENDED FOR SHORT-TERM USE.
- USE TO INHIBIT NON-STORM WATER FLOW.
- ALLOW FOR PROPER MAINTENANCE AND CLEANUP.
- BAGS MUST BE REMOVED AFTER ADJACENT OPERATION IS COMPLETED.
- NOT APPLICABLE IN AREAS WITH HIGH SILTS AND CLAYS WITHOUT FILTER FABRIC.

## LEGEND

SYMBOL	DESCRIPTION
	PROPOSED 2' X 3' VAULT
	PROPOSED NEW STREET LIGHT
	PROPOSED NEW PEDESTAL
	PROPOSED TRENCH AND FIBER CONDUIT (PVT)
	EXISTING EXISTING STREET LIGHT
	EXISTING EXISTING VAULT/HANDHOLE
	EXISTING EXISTING PEDESTAL
	EXISTING EXISTING TRANSFORMER
	STATION POINT (100' INCREMENTS)
	EXISTING EXISTING CURB RAMP
	EXISTING EXISTING CURB FACE
	EXISTING EXISTING RIGHT OF WAY
	EXISTING EXISTING CENTER LINE
	EXISTING EXISTING PROPERTY LINE

## ABBREVIATIONS

A/C	ASPHALT
B.O.C.	BACK OF CURB
B/EOP	BACK OF EDGE OF PAVEMENT
C&G	CURB & GUTTER
C/F	CURB FACE
C/L	CENTER LINE
EX.	EXISTING
EOP	EDGE OF PAVEMENT
F.O.C.	FACE OF CURB
F/EOP	FACE OF EDGE OF PAVEMENT
PL	PROPERTY LINE
R/W	RIGHT OF WAY
S/B	SUBDIVISION BOUNDARY

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 POLE OWNER: **SCE**  
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 WTR ADDRESS: **11701 7/8 PORT RD**

ENGINEER:



OWNER/DEVELOPER:



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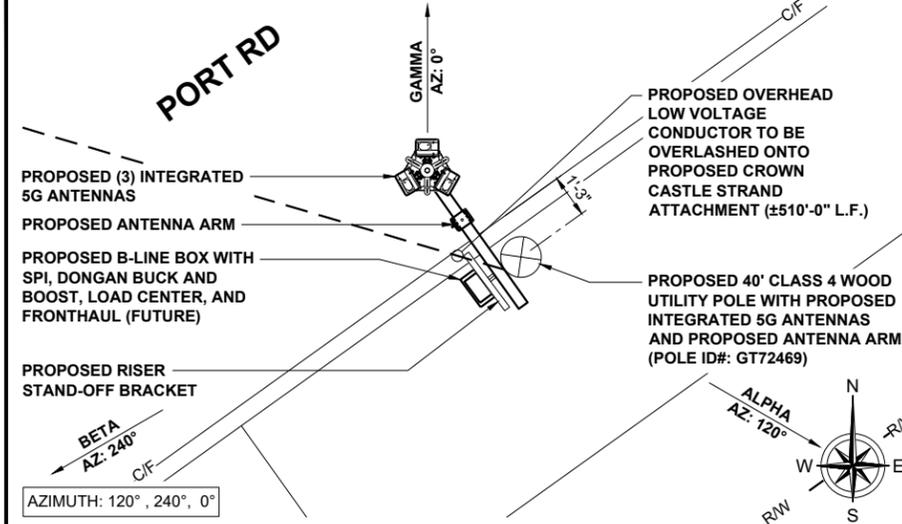
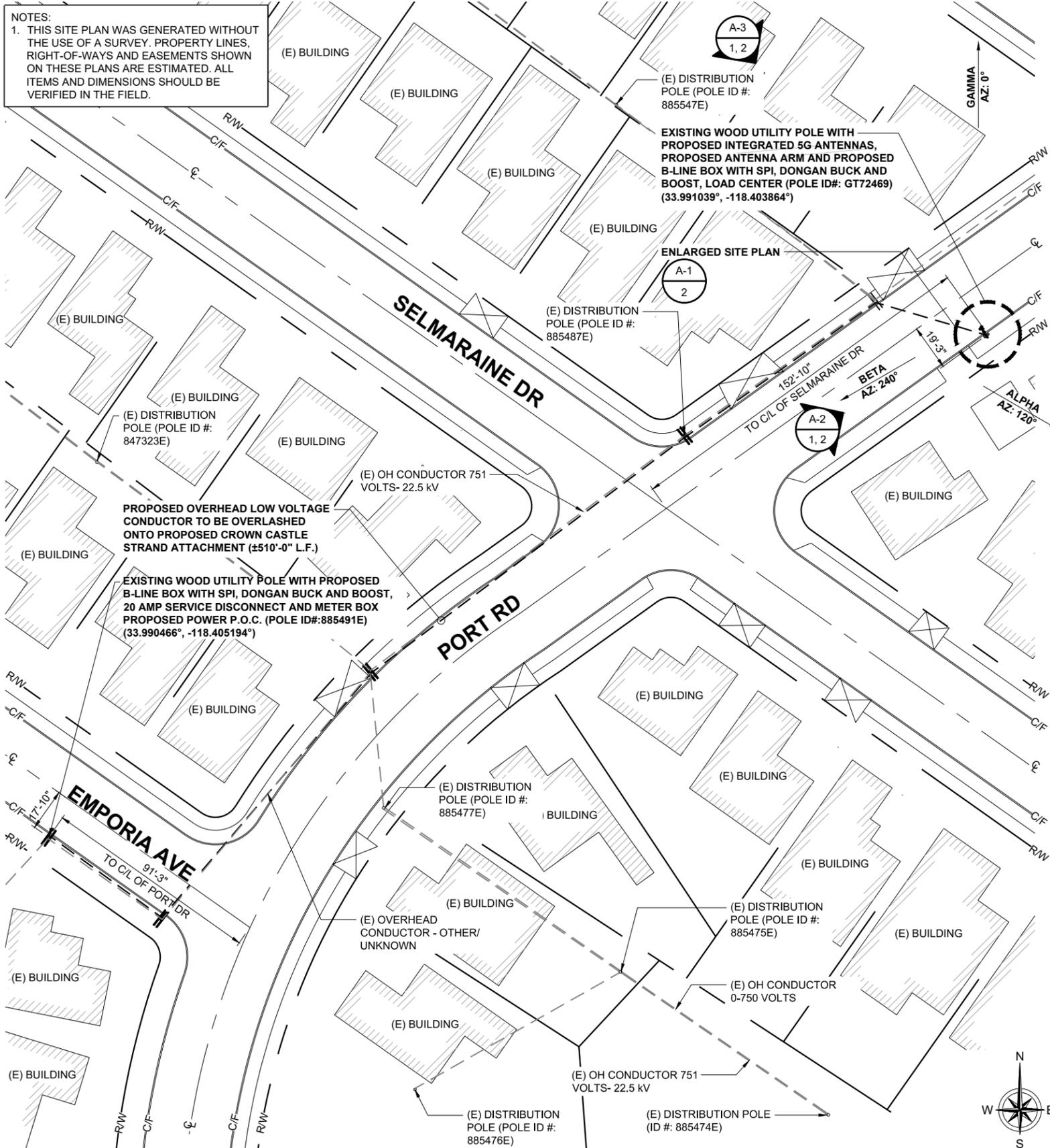
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**GN-1**

# CROWN CASTLE SITE PLAN

NODE ID:  
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**NOTES:**  
1. THIS SITE PLAN WAS GENERATED WITHOUT THE USE OF A SURVEY. PROPERTY LINES, RIGHT-OF-WAYS AND EASEMENTS SHOWN ON THESE PLANS ARE ESTIMATED. ALL ITEMS AND DIMENSIONS SHOULD BE VERIFIED IN THE FIELD.



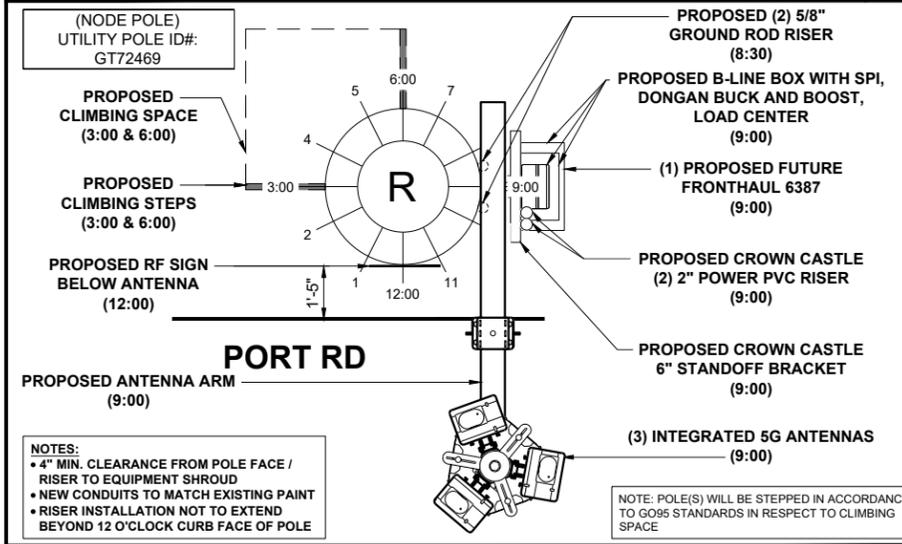
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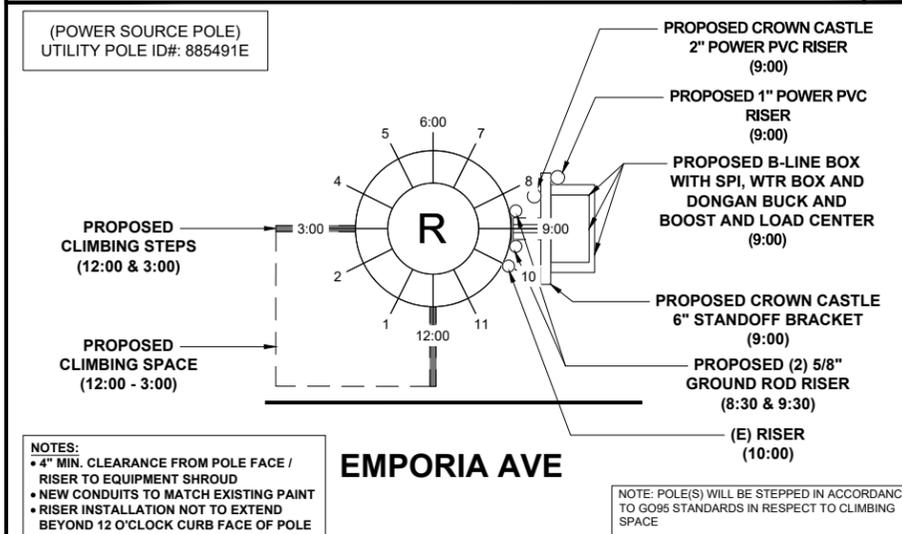
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**ENLARGED SITEPLAN (NODE POLE)** 11"x17" SCALE: 1/8" = 1'-0" 24"x36" SCALE: 1/4" = 1'-0"



**RISER DIAGRAM (NODE POLE)** 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.



**RISER DIAGRAM (POWER SOURCE)** 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S.

ENGINEER:

**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:

**CROWN CASTLE**  
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A-1

SCE - BMB TEMPLATE UPDATED: 9/22/2023 7:56:48 am

# CROWN CASTLE ELEVATIONS (NODE POLE)

NODE ID:  
**CA002\_CLC\_CULVER\_023**

### NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
 POLE ID: GT72469  
 POLE OWNER: VERIZON  
 POWER PROVIDER: SCE  
 HUB ID: 124780 (MARINA MTSO)  
 CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER  
 MARINA MTSO\_35 NODES  
 LATITUDE: 33.991039°  
 LONGITUDE: -118.403864°  
 NEAREST ADDRESS: 11622 PORT RD  
 AZIMUTH: 120°, 240°, 0°

### POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
 POLE OWNER: SCE  
 LATITUDE: 33.990466°  
 LONGITUDE: -118.405194°  
 WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
**CROWN CASTLE  
POLE #: GT72469**

### REVISIONS

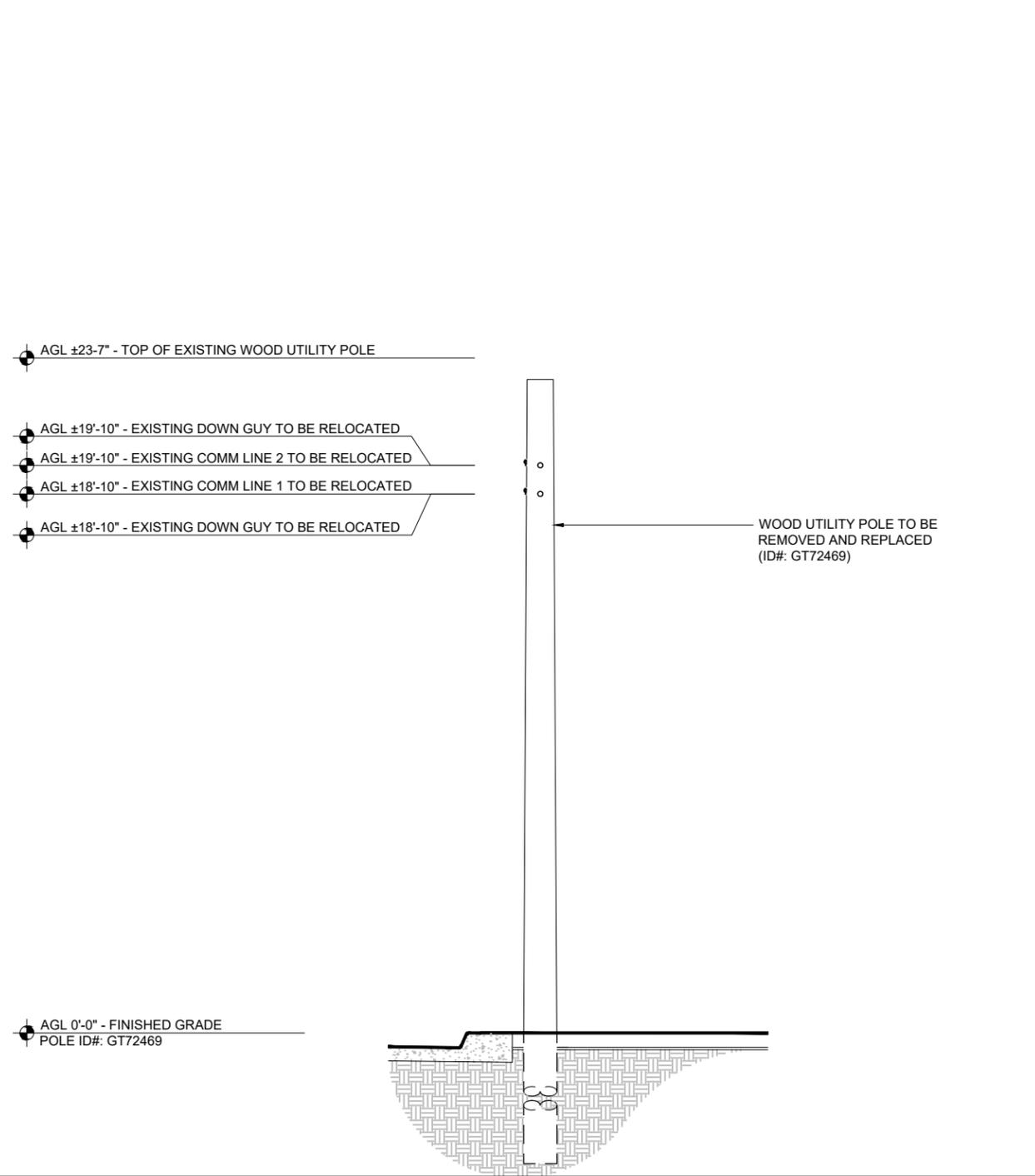
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

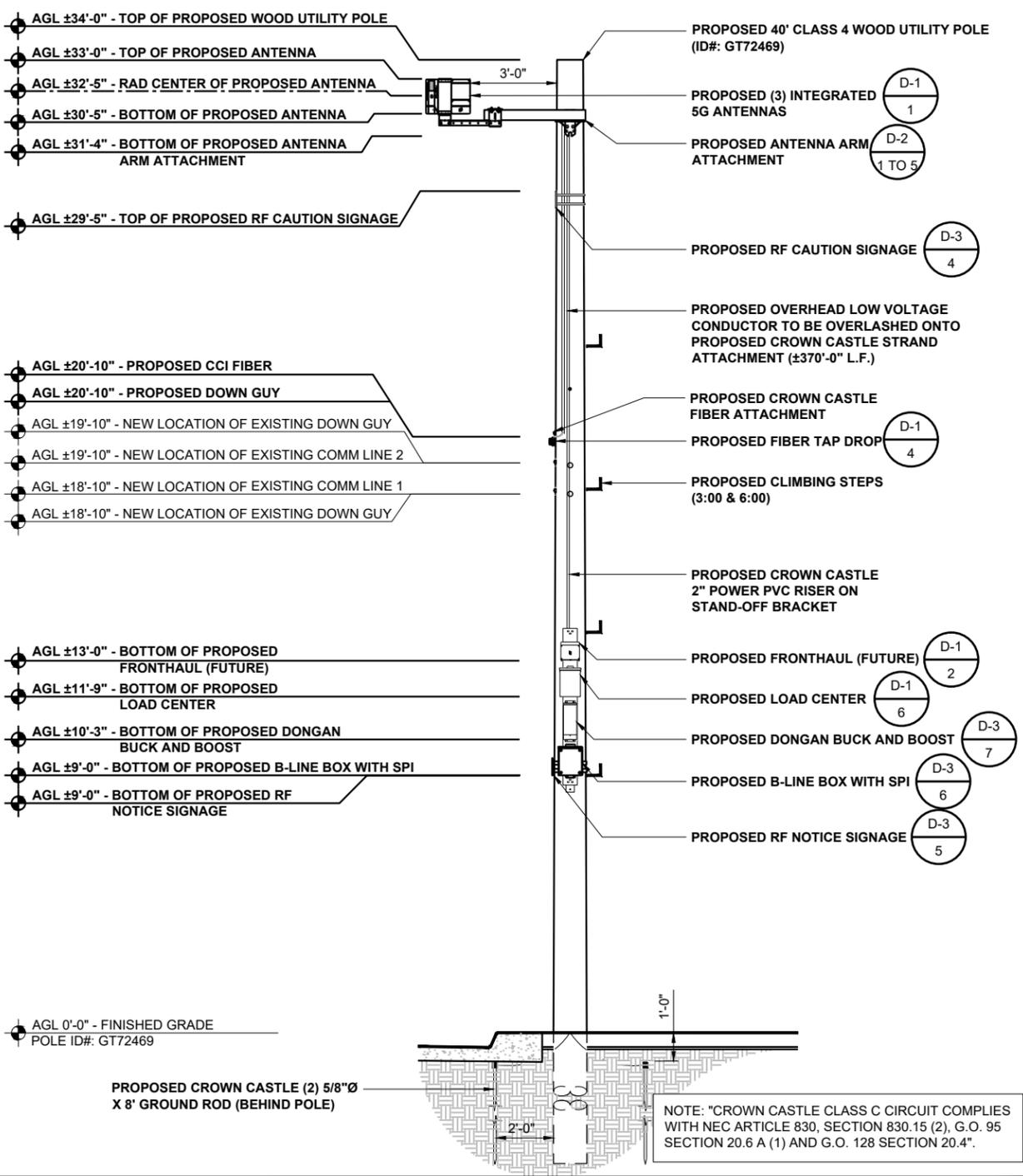
PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	ELEVATIONS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

# A-2

- NOTES:**
- 4" MIN. CLEARANCE FROM POLE FACE / RISER TO EQUIPMENT SHROUD
  - NEW CONDUITS TO MATCH EXISTING PAINT
  - RISER INSTALLATION NOT TO EXTEND BEYOND 12 O'CLOCK CURB FACE OF POLE
  - ALL EQUIPMENT WILL BE PAINTED TO MATCH SUPPORT STRUCTURE



**EXISTING SOUTHWEST ELEVATION** 11"x17" SCALE: 3/16" = 1'-0" 24"x36" SCALE: 3/8" = 1'-0" 1



**PROPOSED SOUTHWEST ELEVATION** 11"x17" SCALE: 3/16" = 1'-0" 24"x36" SCALE: 3/8" = 1'-0" 2

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# CROWN CASTLE ELEVATIONS (NODE POLE)

NODE ID:  
**CA002\_CLC\_CULVER\_023**

### NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
 POLE ID: GT72469  
 POLE OWNER: VERIZON  
 POWER PROVIDER: SCE  
 HUB ID: 124780 (MARINA MTSO)  
 CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER  
 MARINA MTSO\_35 NODES  
 LATITUDE: 33.991039°  
 LONGITUDE: -118.403864°  
 NEAREST ADDRESS: 11622 PORT RD  
 AZIMUTH: 120°, 240°, 0°

### POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
 POLE OWNER: SCE  
 LATITUDE: 33.990466°  
 LONGITUDE: -118.405194°  
 WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
 IRVINE, CA 92618

TITLE:

CROWN CASTLE  
POLE #: GT72469

### REVISIONS

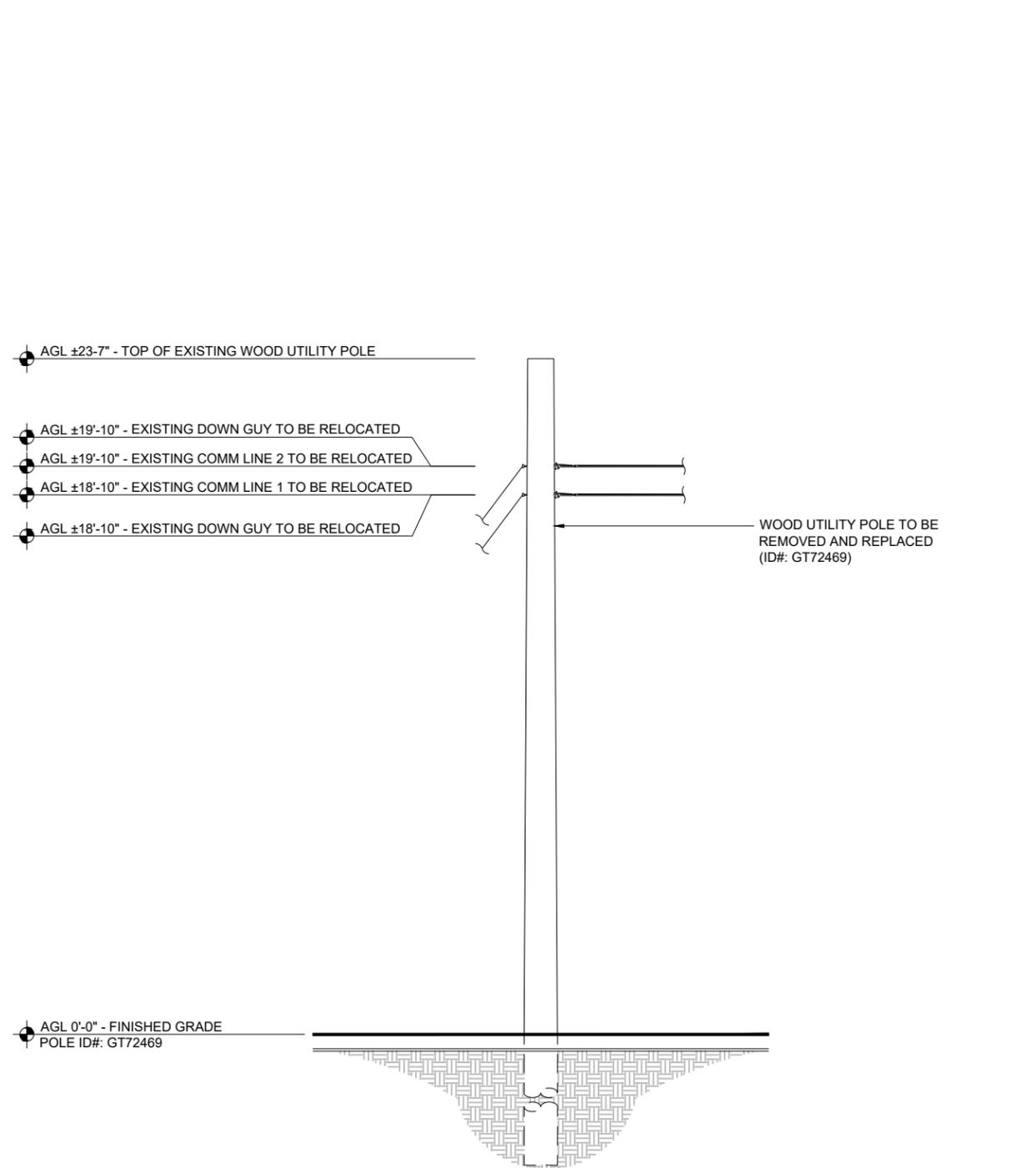
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

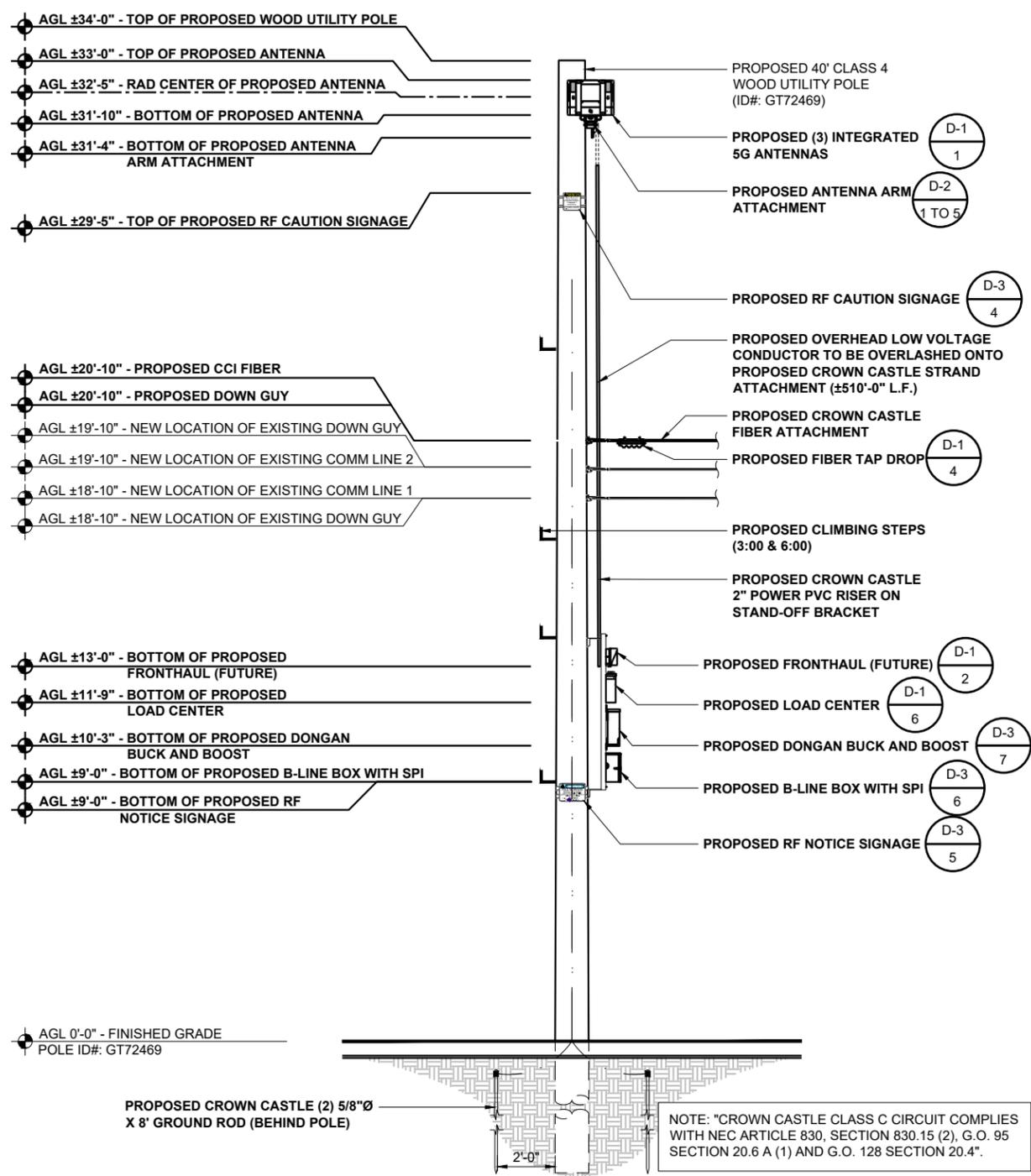
PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	ELEVATIONS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

# A-3

- NOTES:**
- 4" MIN. CLEARANCE FROM POLE FACE / RISER TO EQUIPMENT SHROUD
  - NEW CONDUITS TO MATCH EXISTING PAINT
  - RISER INSTALLATION NOT TO EXTEND BEYOND 12 O'CLOCK CURB FACE OF POLE
  - ALL EQUIPMENT WILL BE PAINTED TO MATCH SUPPORT STRUCTURE



**EXISTING NORTHWEST ELEVATION**  
 11"x17" SCALE: 3/16" = 1'-0"  
 24"x36" SCALE: 3/8" = 1'-0"  
 1



**PROPOSED NORTHWEST ELEVATION**  
 11"x17" SCALE: 3/16" = 1'-0"  
 24"x36" SCALE: 3/8" = 1'-0"  
 2

SCE - BMB TEMPLATE UPDATED: 9/22/2023 7:56:48 am

# CROWN CASTLE ELEVATIONS (POWER POLE)

NODE ID:  
**CA002\_CLC\_CULVER\_023**

### NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
 POLE ID: GT72469  
 POLE OWNER: VERIZON  
 POWER PROVIDER: SCE  
 HUB ID: 124780 (MARINA MTSO)  
 CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER  
 MARINA MTSO\_35 NODES  
 LATITUDE: 33.991039°  
 LONGITUDE: -118.403864°  
 NEAREST ADDRESS: 11622 PORT RD  
 AZIMUTH: 120°, 240°, 0°

### POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
 POLE OWNER: SCE  
 LATITUDE: 33.990466°  
 LONGITUDE: -118.405194°  
 WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
 IRVINE, CA 92618

TITLE:

CROWN CASTLE  
POLE #: GT72469

### REVISIONS

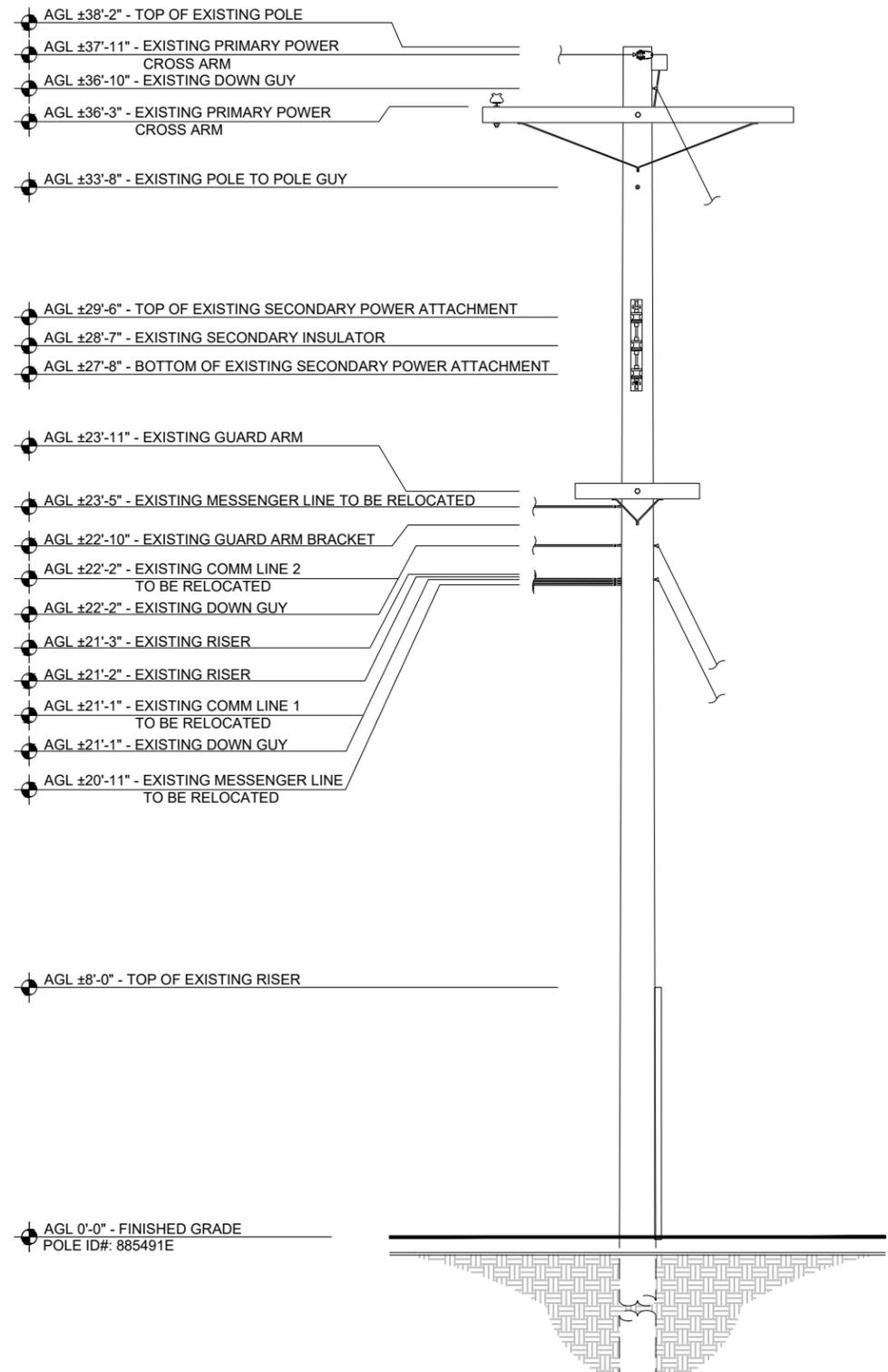
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	ELEVATIONS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

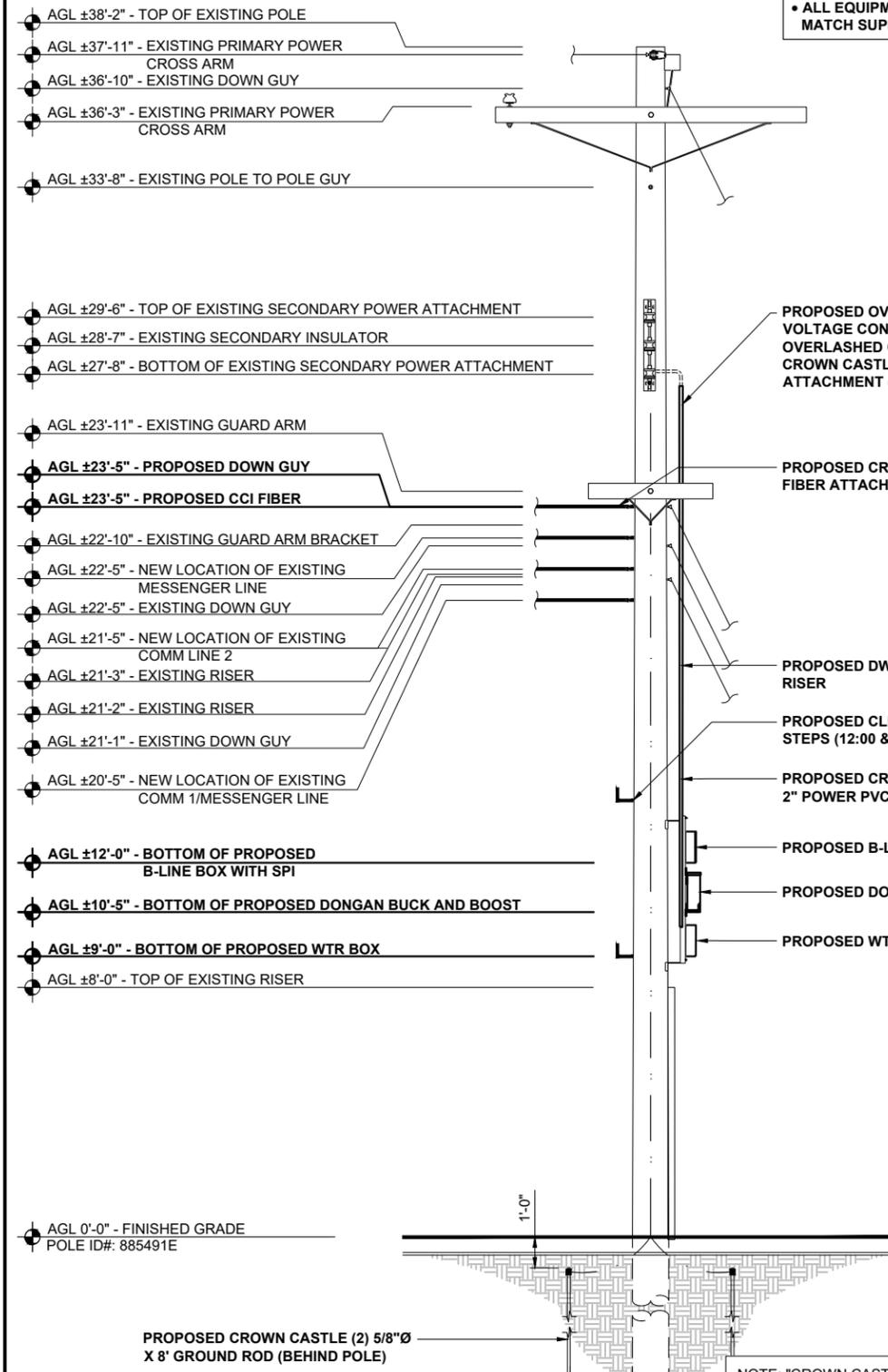
# A-4

**NOTES:**  
 • 4" MIN. CLEARANCE FROM POLE FACE / RISER TO EQUIPMENT SHROUD  
 • NEW CONDUITS TO MATCH EXISTING PAINT  
 • RISER INSTALLATION NOT TO EXTEND BEYOND 12 O'CLOCK CURB FACE OF POLE  
 • ALL EQUIPMENT WILL BE PAINTED TO MATCH SUPPORT STRUCTURE



EXISTING NORTHEAST ELEVATION

11"x17" SCALE: 1/8" = 1'-0"  
 24"x36" SCALE: 1/4" = 1'-0"



PROPOSED NORTHEAST ELEVATION

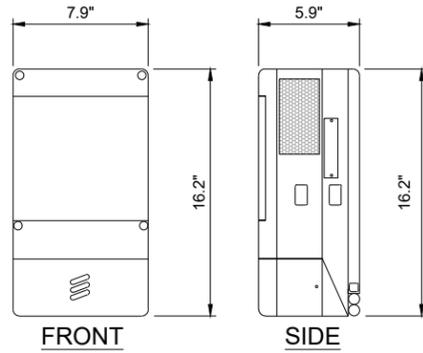
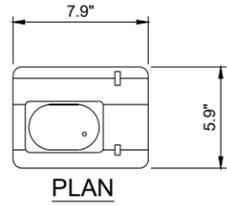
11"x17" SCALE: 1/8" = 1'-0"  
 24"x36" SCALE: 1/4" = 1'-0"

SCE - BMB TEMPLATE UPDATED: 9/22/2023 7:56:48 am

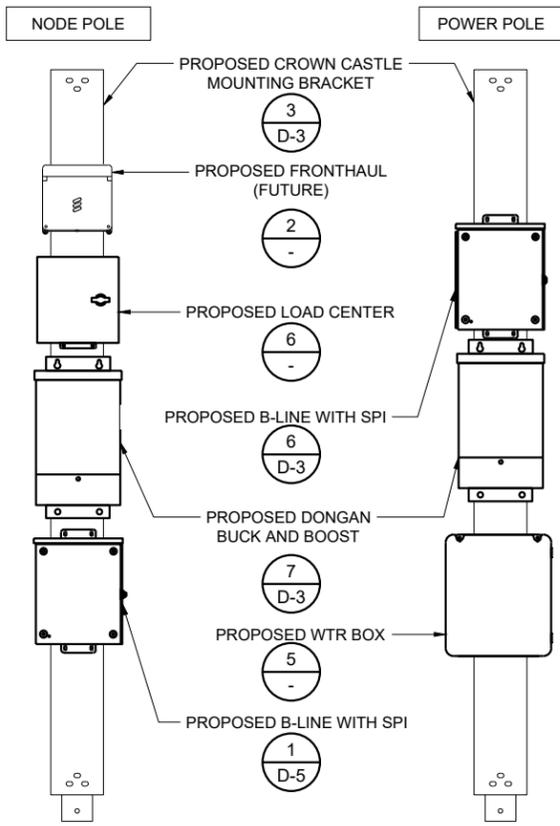
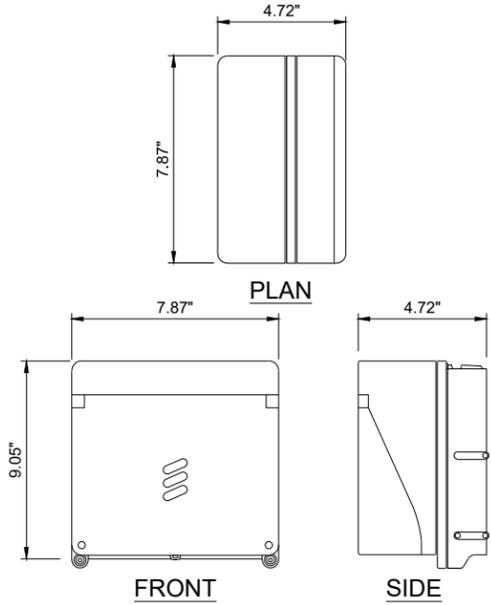
**CROWN CASTLE  
EQUIPMENT DETAILS**

NODE ID:  
**CA002\_CLC\_CULVER\_023**

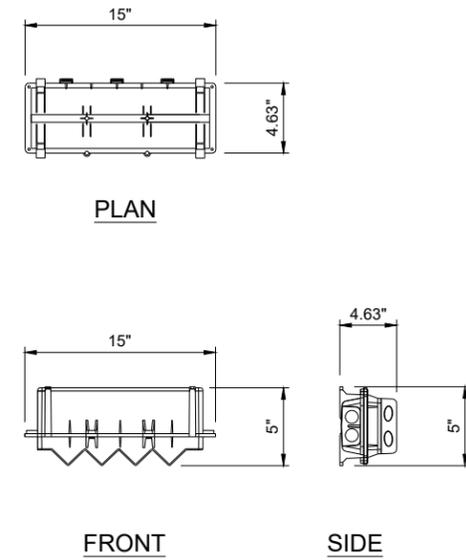
SPECIFICATIONS	
DIMENSIONS (HXWXD)	(16.2" x 7.9" x 5.9")
WEIGHT	31 LBS
MANUFACTURER	ERICSSON
MODEL	STREETMACRO 6705



SPECIFICATIONS	
DIMENSIONS (HXWXD)	(9.05" x 7.87" x 4.72")
WEIGHT	7.7 LBS
MANUFACTURER	ERICSSON
MODEL	FRONTHAUL 6387



SPECIFICATIONS	
DIMENSIONS (HXWXD)	(5" x 15" x 4.63")
WEIGHT	N/A
MANUFACTURER	R&M USA INC.
MODEL	FTH-LCU-PGT-F12-1524 OR FTH-LCU-PGT-F12-3048 (OR APPROVED EQUAL)



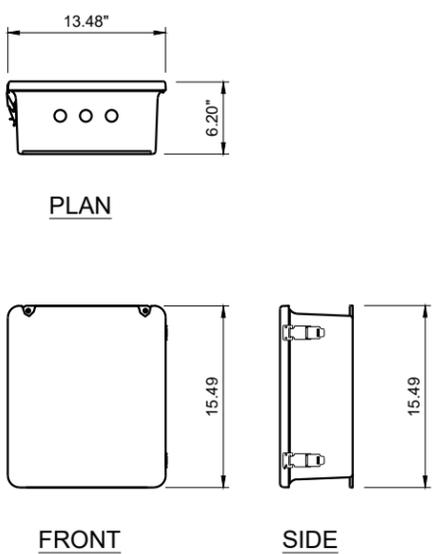
6705 ANTENNA W/  
INTEGRATED RADIO SPECS      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **1**

FRONTHAUL (FUTURE)      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **2**

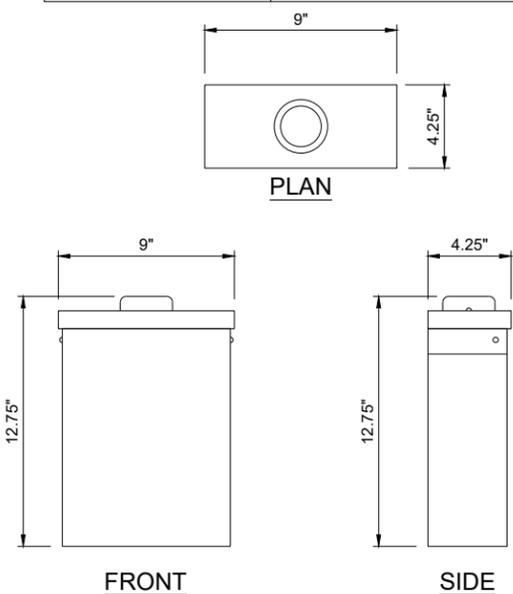
TYPICAL EQUIPMENT DETAIL      **3**

FIBER TAP DROP      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **4**

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(15.49" x 13.48" x 6.20")
WEIGHT	10 LBS
MANUFACTURER	STAHLIN
MODEL	WTR BOX



SPECIFICATIONS	
DIMENSIONS (HXWXD)	(12.75" x 9" x 4.25")
WEIGHT	5.5 LBS
MANUFACTURER	SQUARE D
MODEL	QO612L100RB (OR APPROVED EQUAL)



NOT USED      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **5**

WTR BOX      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **6**

LOAD CENTER      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **7**

NOT USED      11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.      **8**

NODE INFORMATION	
CROWN NODE ID	CA002_CLC_CULVER_023
POLE ID	GT72469
POLE OWNER	VERIZON
POWER PROVIDER:	SCE
HUB ID:	124780 (MARINA MTSO)
CLUSTER/AREA:	PRP_VZW_VCA2-RELOOK_FIBER MARINA MTSO_35 NODES
LATITUDE:	33.991039°
LONGITUDE:	-118.403864°
NEAREST ADDRESS:	11622 PORT RD
AZIMUTH:	120°, 240°, 0°

POWER SOURCE POLE INFORMATION	
POWER POLE ID:	885491E
POLE OWNER:	SCE
LATITUDE:	33.990466°
LONGITUDE:	-118.405194°
WTR ADDRESS:	11701 7/8 PORT RD

ENGINEER:



**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
**CROWN CASTLE  
POLE #: GT72469**

REVISIONS			
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	EQUIPMENT DETAILS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

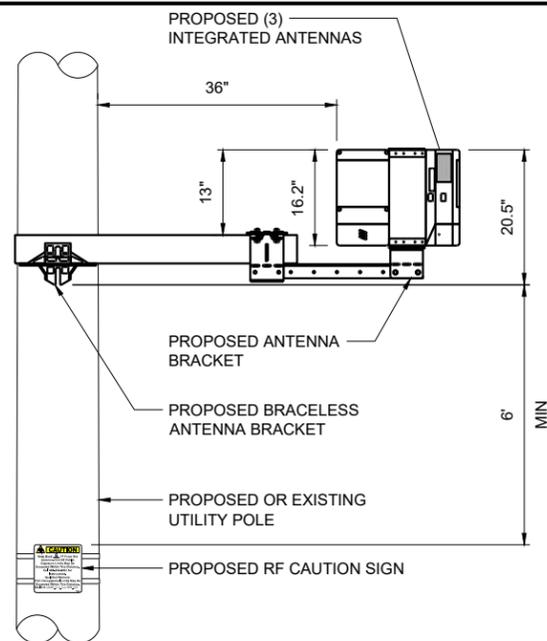
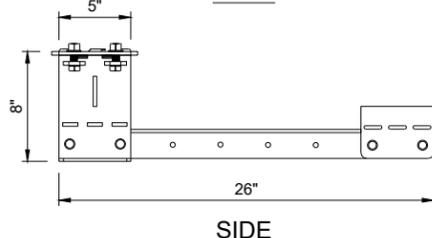
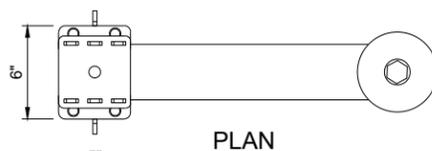
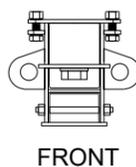
**D-1**

SCE - BMB TEMPLATE UPDATED: 9/22/2023 7:56:48 am

# CROWN CASTLE EQUIPMENT DETAILS

NODE ID:  
**CA002\_CLC\_CULVER\_023**

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(8" x 26" x 6")
WEIGHT	70 LBS (WITHOUT ANTENNAS)
MANUFACTURER	NYM
MODEL	NYM-MK-131-SMB-EX-6705 (OR APPROVED EQUAL)



SPECIFICATIONS	
DIMENSIONS (HXWXD)	(7.38" x 6.5" x 26")
WEIGHT	20 LBS
MANUFACTURER	NYM
MODEL	NYM-MK-131-SMB-EX-6705

ITEM NO.	PART NUMBER	DESCRIPTION PART NAME	DIMENSIONS	MATERIAL FINISH	QTY	UNIT WT. LBS.
1	FMTB	FLUSH MOUNT TILT BRACKET	LENGTH 5.00" WIDTH 3.00" HEIGHT 6.00"	HOT ROLLED STEEL GALVANIZED	x3	4 LBS
2	FMTB-ERIC6705	ERICSSON 6705 MOUNTING HOLE PATTERN FOR FMTB LATCH BRACKET	LENGTH 5.00" WIDTH 3.80" HEIGHT 6.00"	HOT ROLLED STEEL GALVANIZED	x3	2 LBS
3	GSAE-10	GALVANIZED STEEL ANTENNA EXTENSION 15" HEIGHT	HEIGHT 15.00" DIAMETER 5.0"	HRS GALVANIZED STEEL TUBING	x1	9.5 LBS
4	CAB 3.5 x 4.5	CROSS ARM BRACKET	LENGTH 7.00" WIDTH 5.25" LENGTH 5.00"	STEEL GALVANIZED	x1	9 LBS
5	CAE-26	CROSS ARM EXTENSION	HEIGHT 7.375" LENGTH 26" WIDTH 6.50"	GALVANIZED HRS STEEL	x1	20 LBS
6	RSC-15	RADIO SIDE COVERS 15" TALL	HEIGHT 15" LENGTH 1.5" WIDTH 10"	ALUMINUM GALVANIZED STEEL	x3 COVER UNIT	5.5 LBS

NODE INFORMATION	
CROWN NODE ID	CA002_CLC_CULVER_023
POLE ID	GT72469
POLE OWNER	VERIZON
POWER PROVIDER:	SCE
HUB ID:	124780 (MARINA MTSO)
CLUSTER/AREA:	PRP_VZW_VCA2-RELOOK_FIBER MARINA MTSO_35 NODES
LATITUDE:	33.991039°
LONGITUDE:	-118.403864°
NEAREST ADDRESS:	11622 PORT RD
AZIMUTH:	120°, 240°, 0°

POWER SOURCE POLE INFORMATION	
POWER POLE ID:	885491E
POLE OWNER:	SCE
LATITUDE:	33.990466°
LONGITUDE:	-118.405194°
WTR ADDRESS:	11701 7/8 PORT RD

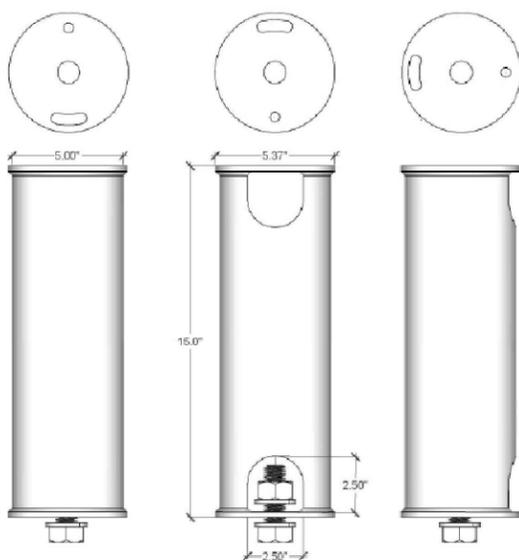
MK-131 ANTENNA MOUNT SPECS 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

MK-131 TYPICAL ANTENNA ASSEMBLY

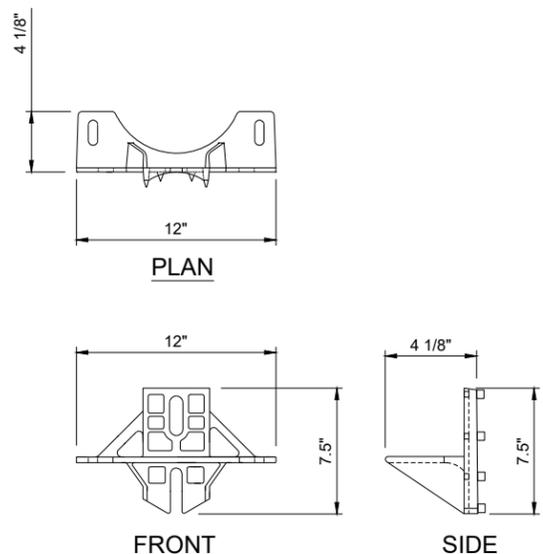
NYM-MK-131-SMB-EX-6705 | EQUIPMENT LIST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

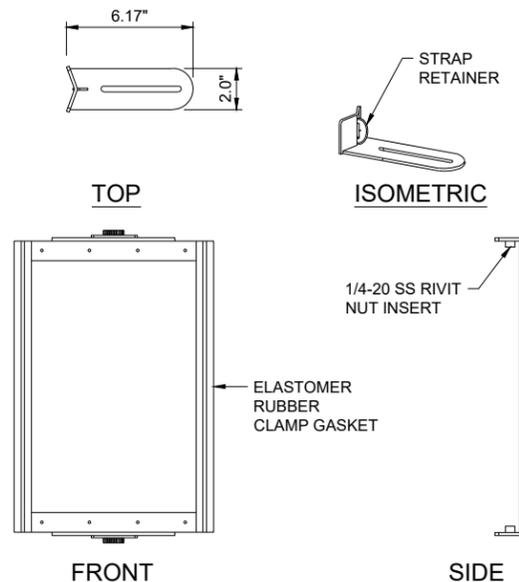
SPECIFICATIONS	
DIMENSIONS (HXWXD)	(H 15" x D 5" & Flange is 5.37")
WEIGHT	9.5 LBS
MANUFACTURER	NYM
MODEL	GSAE-10



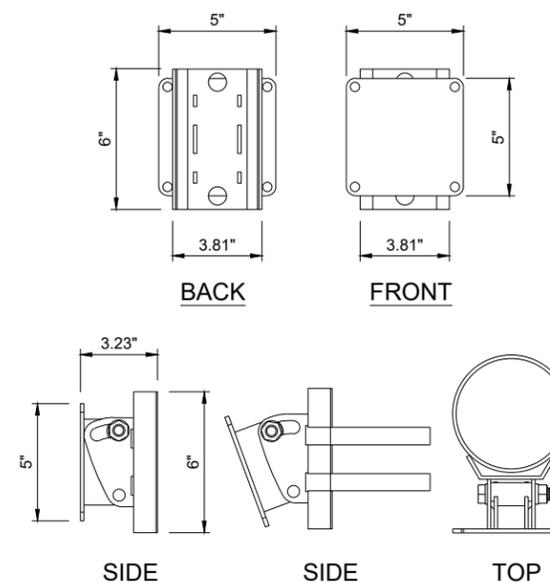
SPECIFICATIONS	
DIMENSIONS (HXWXD)	(7.5" x 12" x 4 1/8")
WEIGHT	5 LBS
MANUFACTURER	GAINS
MODEL	PX182A (OR APPROVED EQUAL)



SPECIFICATIONS	
DIMENSIONS (HXWXD)	AS SHOWN
WEIGHT	5.5 LBS
MANUFACTURER	NYM
MODEL	RSC-15 (OR APPROVED EQUAL)



SPECIFICATIONS	
DIMENSIONS (HXWXD)	AS SHOWN
WEIGHT	6 LBS (TOTAL FOR BOTH)
MANUFACTURER	NYM
MODEL	FMTB   FMTB-ERIC6705 (OR APPROVED EQUAL)



ANTENNA EXTENSION SPECS 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

BRACELESS CROSSARM GAINS 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

RADIO SIDE COVER SPECS. 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

LATCH & TILT BRACKET SPECS. 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

ENGINEER:

**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:

**CROWN  
CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
**CROWN CASTLE  
POLE #: GT72469**

REVISIONS			
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

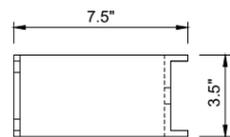
DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	EQUIPMENT DETAILS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

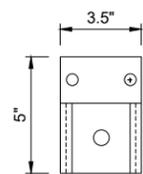
### CROWN CASTLE EQUIPMENT DETAILS

NODE ID:  
**CA002\_CLC\_CULVER\_023**

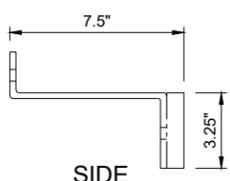
SPECIFICATIONS	
DIMENSIONS (HXWXD)	(5" x 3.5" x 7.5")
WEIGHT	TBD
MANUFACTURER	HP COMMUNICATIONS INC. #23-S06
MODEL	(OR APPROVED EQUAL)



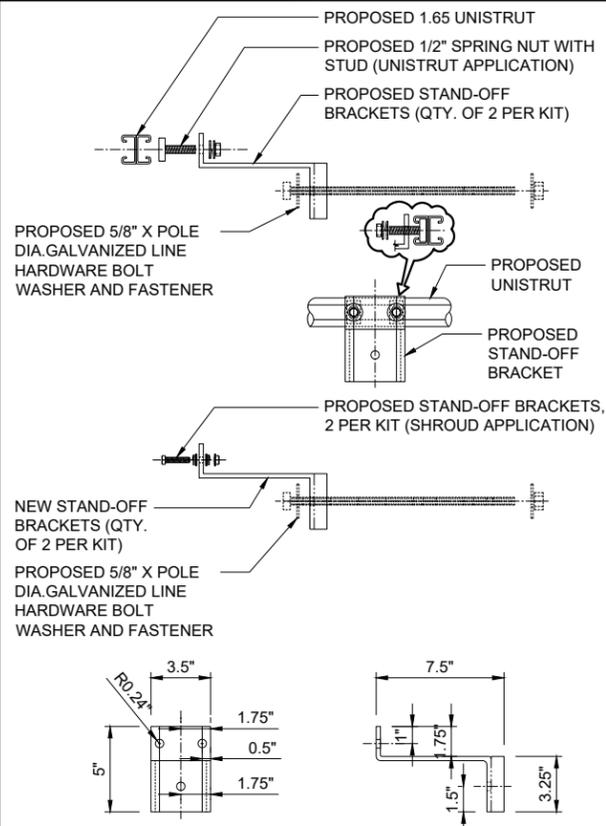
PLAN



FRONT

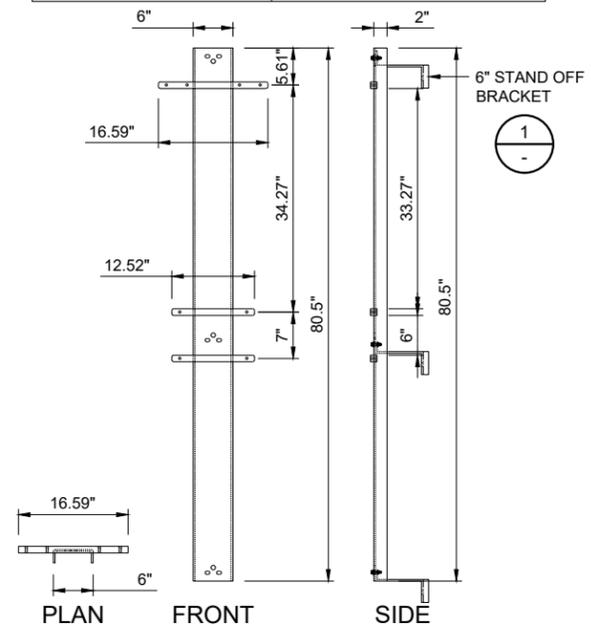


SIDE



11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(80.50" x 6" x 2")
WEIGHT	95 LBS
MANUFACTURER	HP COMMUNICATIONS INC. #23-CH81
MODEL	(OR APPROVED EQUAL)



11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

CAUTION

Keep Back 6 FT From this  
Antenna. FCC RF Public  
Exposure Limits May Be  
Exceeded Within This Distance.  
Call 888-632-0931 for  
Instructions.  
Qualified Workers:  
FCC Occupational Limits May Be  
Exceeded Within This Distance.  
Site ID # CA002\_CLC\_CULVER\_023

Rev. A

NODE INFORMATION	
CROWN NODE ID	CA002_CLC_CULVER_023
POLE ID	GT72469
POLE OWNER	VERIZON
POWER PROVIDER:	SCE
HUB ID:	124780 (MARINA MTSO)
CLUSTER/AREA:	PRP_VZW_VCA2-RELOOK_FIBER MARINA MTSO_35 NODES
LATITUDE:	33.991039°
LONGITUDE:	-118.403864°
NEAREST ADDRESS:	11622 PORT RD
AZIMUTH:	120°, 240°, 0°

POWER SOURCE POLE INFORMATION	
POWER POLE ID:	885491E
POLE OWNER:	SCE
LATITUDE:	33.990466°
LONGITUDE:	-118.405194°
WTR ADDRESS:	11701 7/8 PORT RD

6" STAND OFF SPECS. 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 1

RISER STAND-OFF BRACKET 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 2

EQUIPMENT BRACKET SPECS. 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 3

RF CAUTION SIGN 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 4

NOTICE

POLE WORKERS

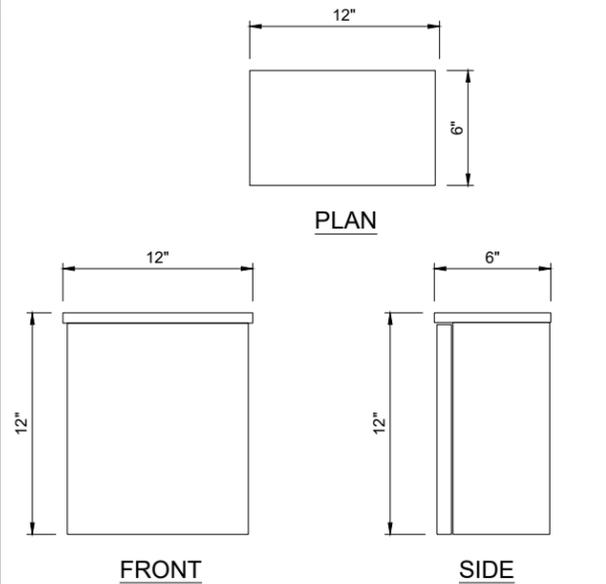
There is an antenna operation high on this pole. Please follow guidance on signs near the antenna or call the number below.

Site ID # CA002\_CLC\_CULVER\_023

888-632-0931

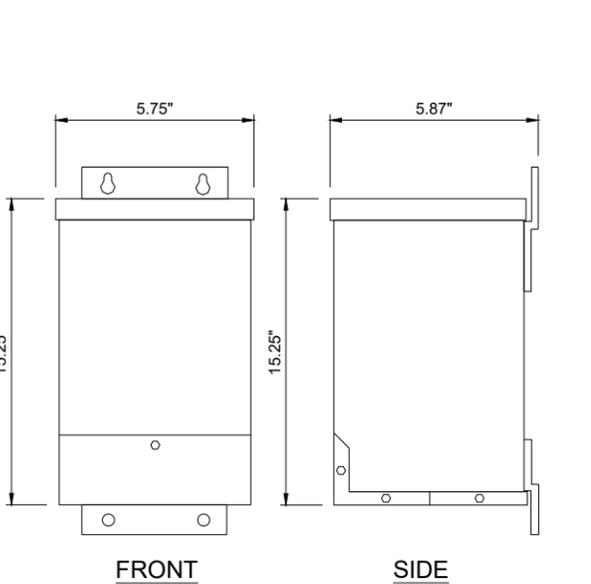
Rev. A

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(12.0" x 12.0" x 6.0")
WEIGHT	5 LBS
MANUFACTURER	COOPER B-LINE
MODEL	J12126 RHC (OR APPROVED EQUAL)



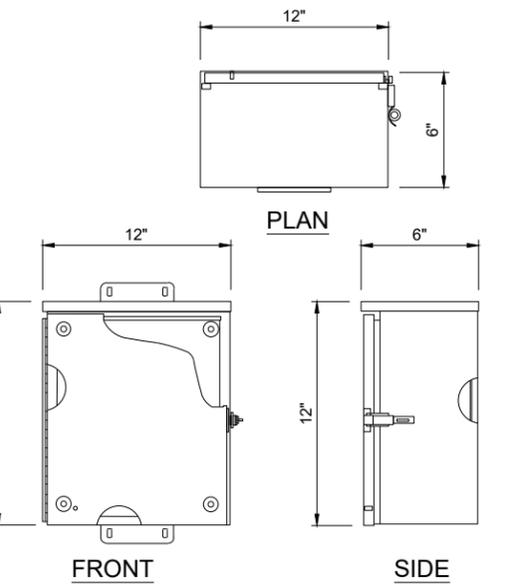
11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 6

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(15.25" x 5.75" x 5.87")
WEIGHT	28 LBS
MANUFACTURER	DONGAN
MODEL	85-Y036 (OR APPROVED EQUAL)



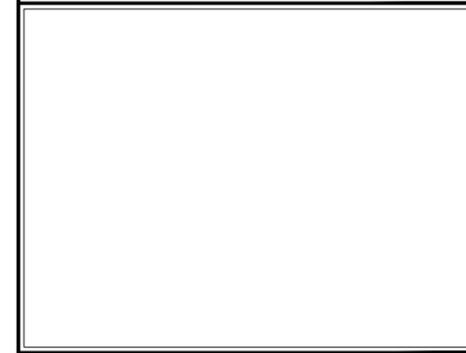
11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 7

SPECIFICATIONS	
DIMENSIONS (HXWXD)	(12" x 12" x 6")
WEIGHT	25 LBS
MANUFACTURER	B-LINE
MODEL	#12126RHC (OR APPROVED EQUAL)



11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 8

RF NOTICE SIGN 11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S. 5



ENGINEER:

Pramira

ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:

CROWN CASTLE

200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE: CROWN CASTLE  
POLE #: GT72469

REVISIONS			
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	EQUIPMENT DETAILS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

D-3

CROWN CASTLE  
PHOTOSIMS

NODE ID:  
CA002\_CLC\_CULVER\_023

NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
 POLE ID: GT72469  
 POLE OWNER: VERIZON  
 POWER PROVIDER: SCE  
 HUB ID: 124780 (MARINA MTSO)  
 CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER\_MARINA\_MTSO\_35\_NODES  
 LATITUDE: 33.991039°  
 LONGITUDE: -118.403864°  
 NEAREST ADDRESS: 11622 PORT RD  
 AZIMUTH: 120°, 240°, 0°

POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
 POLE OWNER: SCE  
 LATITUDE: 33.990466°  
 LONGITUDE: -118.405194°  
 WTR ADDRESS: 11701 7/8 PORT RD



- PROPOSED (3) INTEGRATED 5G ANTENNAS
- PROPOSED ANTENNA ARM ATTACHMENT
- PROPOSED OVERHEAD LOW VOLTAGE CONDUCTOR TO BE OVERLASHED ONTO PROPOSED CROWN CASTLE STRAND ATTACHMENT (±510'-0" L.F.)
- PROPOSED RF CAUTION SIGNAGE
- PROPOSED CROWN CASTLE FIBER ATTACHMENT
- PROPOSED 40' CLASS 4 WOOD UTILITY POLE (ID#: GT72469)
- PROPOSED CROWN CASTLE 2" POWER PVC RISER ON STAND-OFF BRACKET
- PROPOSED FRONTHAUL (FUTURE)
- PROPOSED LOAD CENTER
- PROPOSED B-LINE BOX WITH SPI
- PROPOSED DONGAN BUCK AND BOOST
- PROPOSED RF NOTICE SIGNAGE

ENGINEER:



**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
CROWN CASTLE  
POLE #: GT72469

REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	PHOTOSIMS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

EXISTING LOOKING WEST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

2

PROPOSED LOOKING WEST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

4

PS-1

CROWN CASTLE  
PHOTOSIMS

NODE ID:  
CA002\_CLC\_CULVER\_023



PROPOSED (3) INTEGRATED  
5G ANTENNAS

PROPOSED ANTENNA ARM  
ATTACHMENT

PROPOSED RF CAUTION SIGNAGE

PROPOSED OVERHEAD LOW VOLTAGE  
CONDUCTOR TO BE OVERLASHED ONTO  
PROPOSED CROWN CASTLE STRAND  
ATTACHMENT (±510'-0" L.F.)

PROPOSED CROWN CASTLE  
FIBER ATTACHMENT

PROPOSED 40' CLASS 4  
WOOD UTILITY POLE  
(ID#: GT72469)

PROPOSED CROWN CASTLE  
2" POWER PVC RISER ON  
STAND-OFF BRACKET

PROPOSED FRONTHAUL (FUTURE)

PROPOSED LOAD CENTER

PROPOSED B-LINE BOX WITH SPI

PROPOSED DONGAN  
BUCK AND BOOST

PROPOSED RF NOTICE SIGNAGE

NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
POLE ID: GT72469  
POLE OWNER: VERIZON  
POWER PROVIDER: SCE  
HUB ID: 124780 (MARINA MTSO)  
CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER\_MARINA\_MTSO\_35\_NODES  
LATITUDE: 33.991039°  
LONGITUDE: -118.403864°  
NEAREST ADDRESS: 11622 PORT RD  
AZIMUTH: 120°, 240°, 0°

POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
POLE OWNER: SCE  
LATITUDE: 33.990466°  
LONGITUDE: -118.405194°  
WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:

CROWN CASTLE  
POLE #: GT72469

REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	PHOTOSIMS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

EXISTING NORTHWEST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

2

PROPOSED NORTHWEST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

4

PS-2

# CROWN CASTLE EQUIPMENT DETAILS

NODE ID:  
**CA002\_CLC\_CULVER\_023**

### NODE INFORMATION

CROWN NODE ID: **CA002\_CLC\_CULVER\_023**  
 POLE ID: **GT72469**  
 POLE OWNER: **VERIZON**  
 POWER PROVIDER: **SCE**  
 HUB ID: **124780 (MARINA MTSO)**  
 CLUSTER/AREA: **PRP\_VZW\_VCA2-RELOOK\_FIBER\_MARINA MTSO\_35 NODES**  
 LATITUDE: **33.991039°**  
 LONGITUDE: **-118.403864°**  
 NEAREST ADDRESS: **11622 PORT RD**  
 AZIMUTH: **120°, 240°, 0°**

### POWER SOURCE POLE INFORMATION

POWER POLE ID: **885491E**  
 POLE OWNER: **SCE**  
 LATITUDE: **33.990466°**  
 LONGITUDE: **-118.405194°**  
 WTR ADDRESS: **11701 7/8 PORT RD**

ENGINEER:



**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE: **CROWN CASTLE  
POLE #: GT72469**

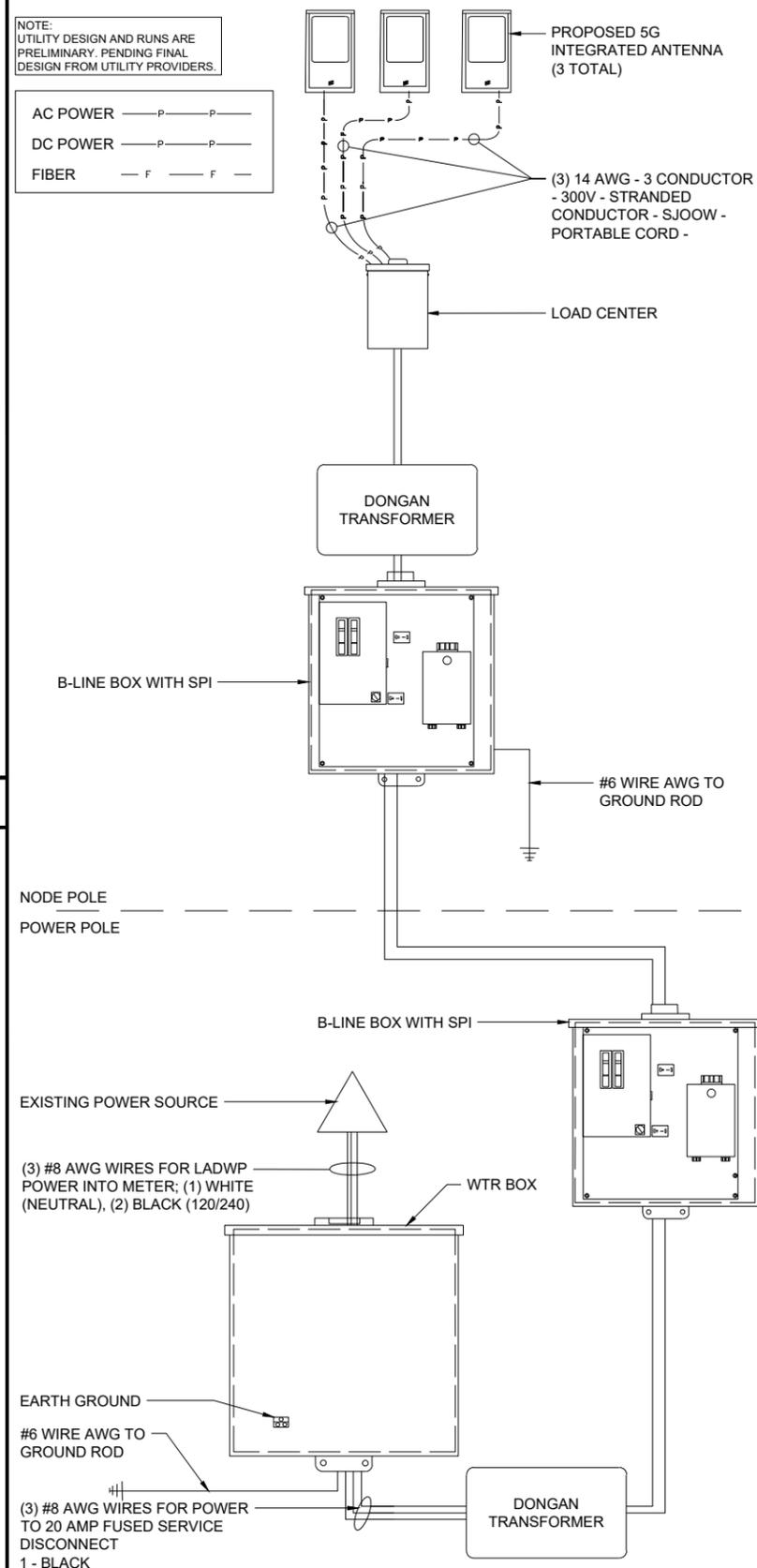
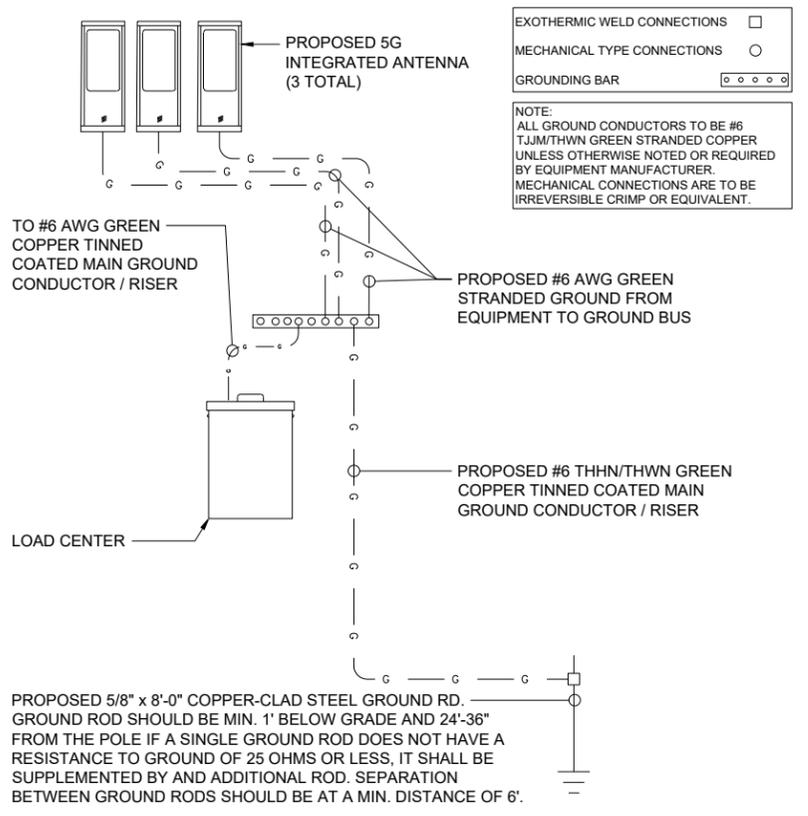
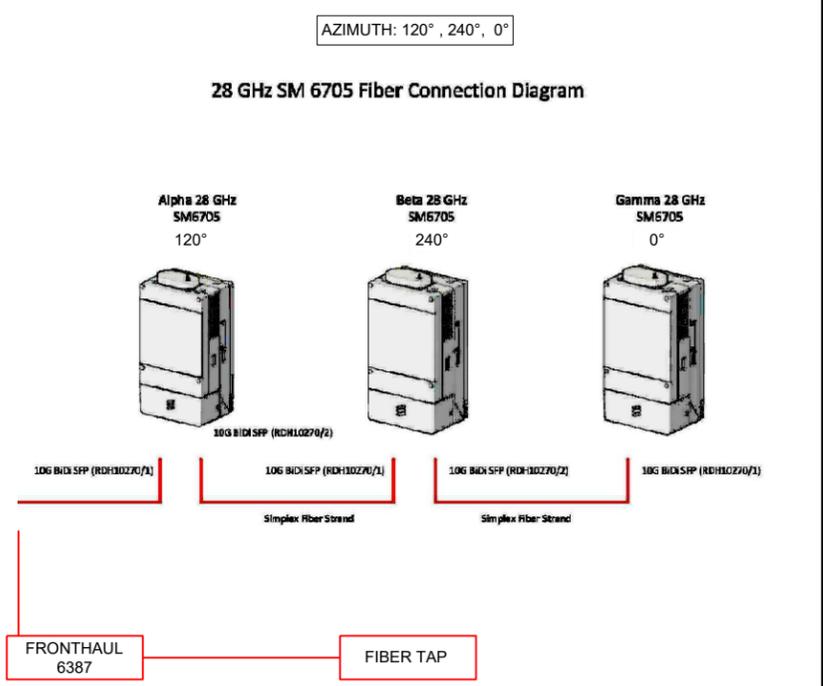
### REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	EQUIPMENT DETAILS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

# E-1



FIBER PLUMBING DIAGRAM 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S. 1

GROUNDING SCHEMATIC 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S. 2

### PANEL CIRCUIT AND LOAD SCHEDULE

LOAD								TO RADIOS
DESCRIPTION	QTY	UNIT V.A.	TRIP	POLES	WIRE SIZE	K.A.I.C	WIRE TYPE	
1 ERICSSON SM6705	1	396	10A	1	8	10	Cu	
2 ERICSSON SM6705	1	396	10A	1	8	10	Cu	
3 ERICSSON SM6705	1	396	10A	1	8	10	Cu	
4								
5								
6								
7								
8								
9								
10								
11								
12								
TOTAL NON-CONTINUOUS								
TOTAL VA		1,188	VOLTAGE: 120/240 V		PHASE: 1			
TOTAL AMPS		9.9	MAIN LUG:		WIRES: 3			

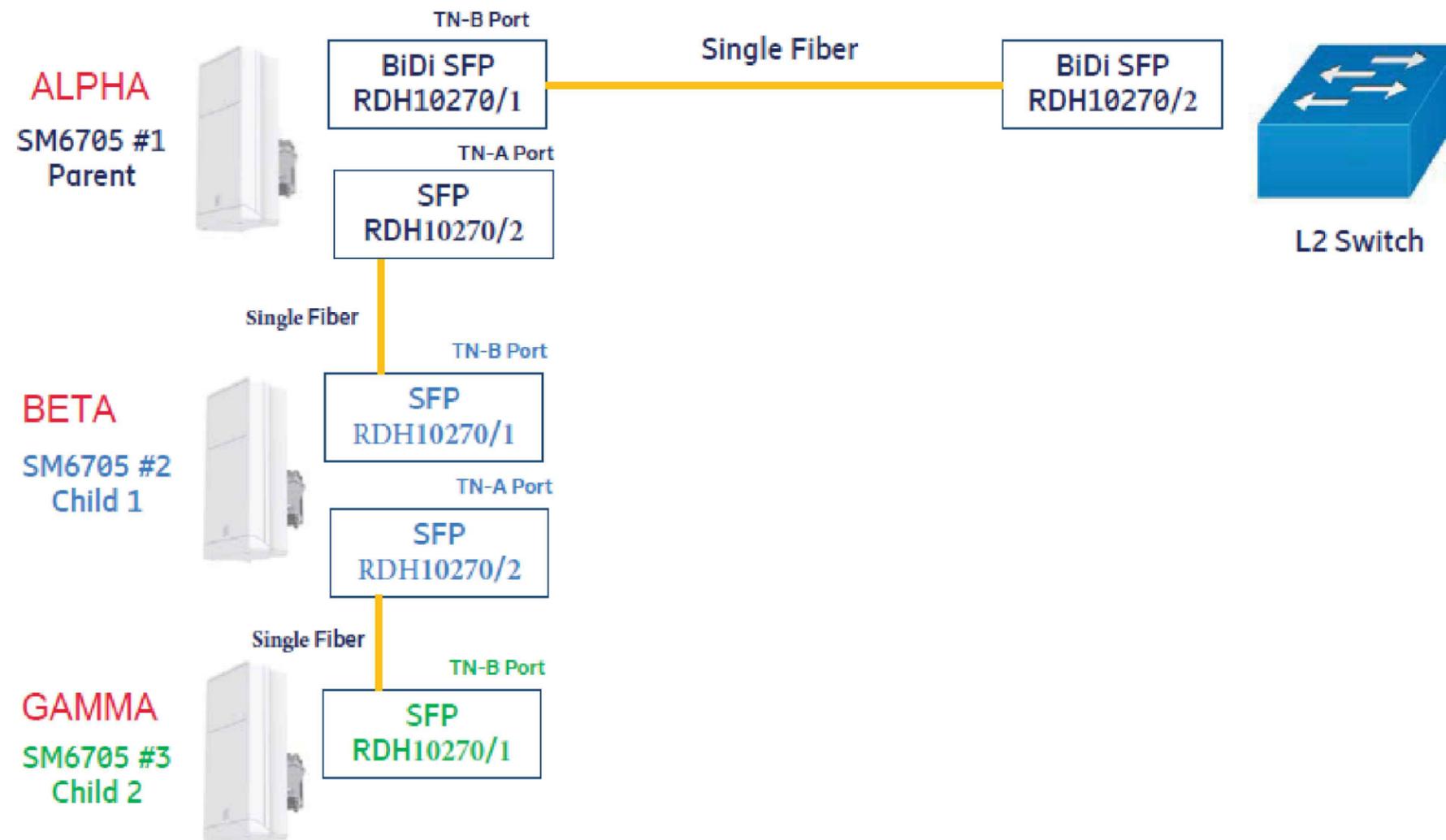
LOAD SCHEDULE 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S. 3

ONE-LINE DIAGRAM 11"x17" SCALE: N.T.S. 24"x36" SCALE: N.T.S. 4

SCE - 6705 TEMPLATE UPDATED: 9/22/2023 7:56:48 am

# Plumbing Diagram

SM 6705 28 Ghz and SM 6705 39Ghz



NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
 POLE ID: GT72469  
 POLE OWNER: VERIZON  
 POWER PROVIDER: SCE  
 HUB ID: 124780 (MARINA MTSO)  
 CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER\_MARINA MTSO\_35 NODES  
 LATITUDE: 33.991039°  
 LONGITUDE: -118.403864°  
 NEAREST ADDRESS: 11622 PORT RD  
 AZIMUTH: 120°, 240°, 0°

POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
 POLE OWNER: SCE  
 LATITUDE: 33.990466°  
 LONGITUDE: -118.405194°  
 WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



**Pramira**

ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:

CROWN CASTLE  
POLE #: GT72469

REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY: CHECKED BY: APPROVED BY:

SY G.A. G.A.

PROJECT NUMBER: CA002\_CLC\_CULVER\_023

SHEET NAME: RF PLUMBING DIAGRAM

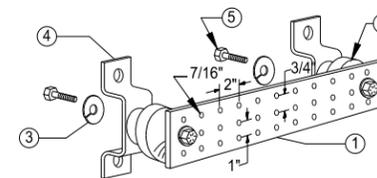
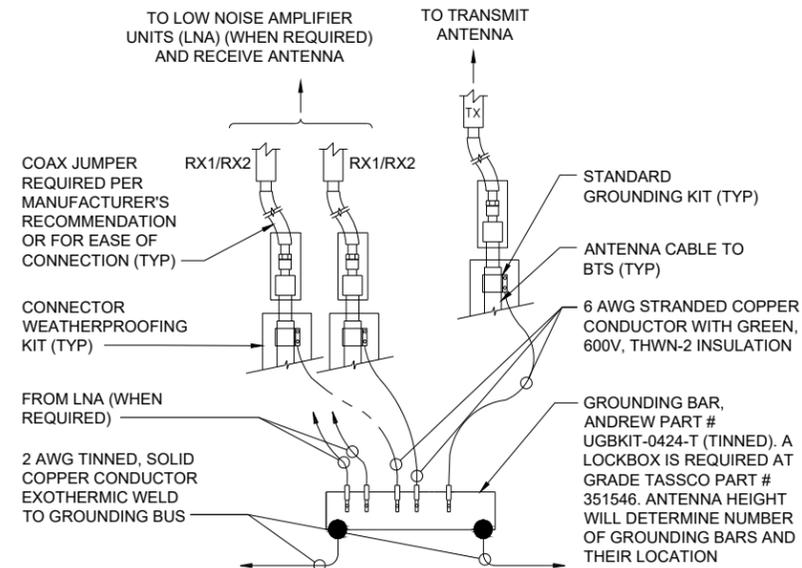
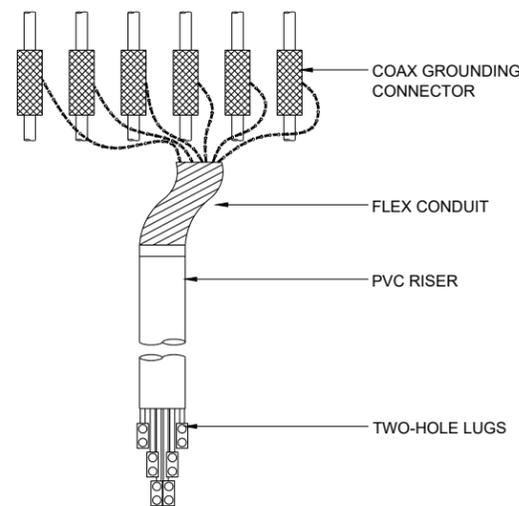
DATE DRAWN: 08/31/2023

SCALE: AS SHOWN

**RF-1**

# CROWN CASTLE GROUNDING DETAILS

NODE ID:  
**CA002\_CLC\_CULVER\_023**



- LEGEND**
- 1- TINNED COPPER GROUND BAR, 1/4"x4"x20", NEWTON INSTRUMENT CO. CAT. NO. B-6142 OR EQUAL. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
  - 2- INSULATORS, NEWTON INSTRUMENT CAT. NO. 3061-4
  - 3- 5/8" LOCKWASHERS, NEWTON INSTRUMENT CO. CAT. NO. 3015-8
  - 4- WALL MOUNTING BRACKET, NEWTON INSTRUMENT CO. CAT NO. A-6056
  - 5- 5/8-11 X 1" HHCS BOLTS, NEWTON INSTRUMENT CO. CAT NO. 3012-1

COAX GROUND KIT

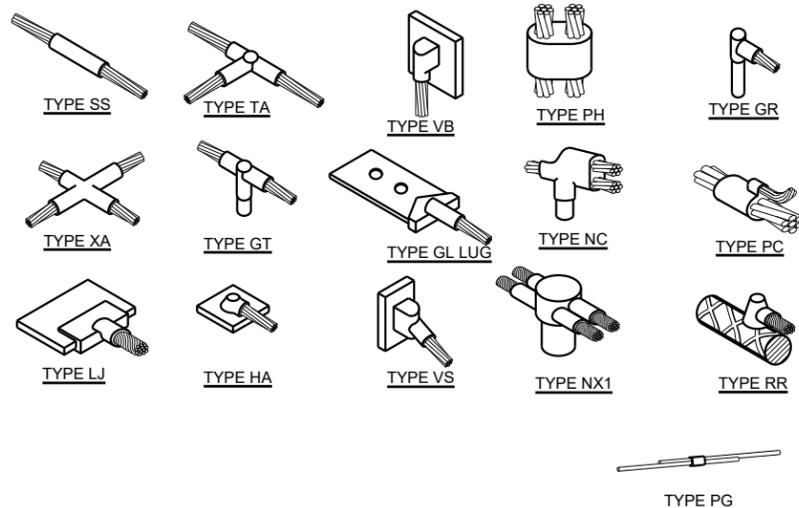
11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

GROUNDING BAR CONNECTION

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

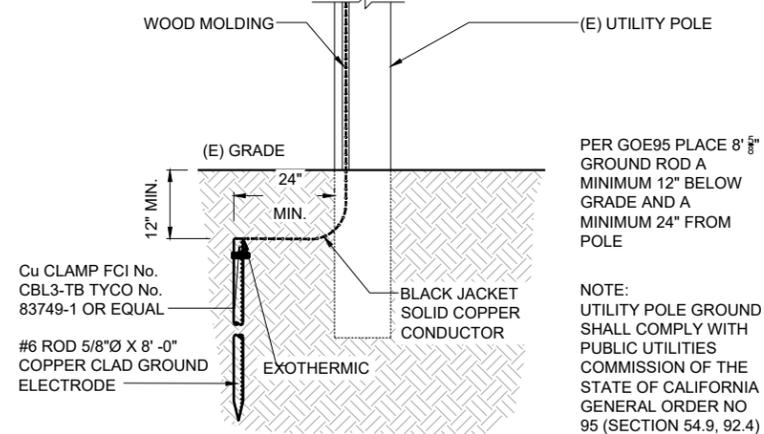
GROUND BAR DETAIL

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.



TYPICAL CADWELD TYPES

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

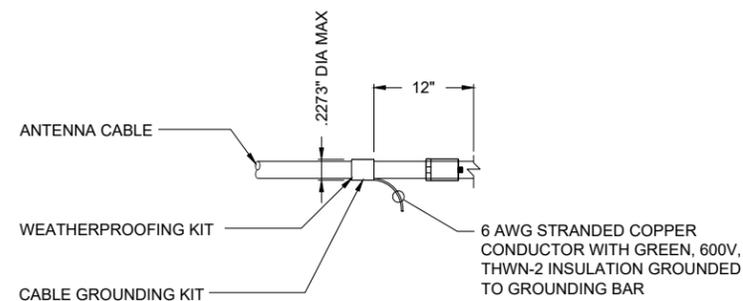


GROUND ROD

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

GROUNDING WIRE CONNECTION

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.



NOT USED

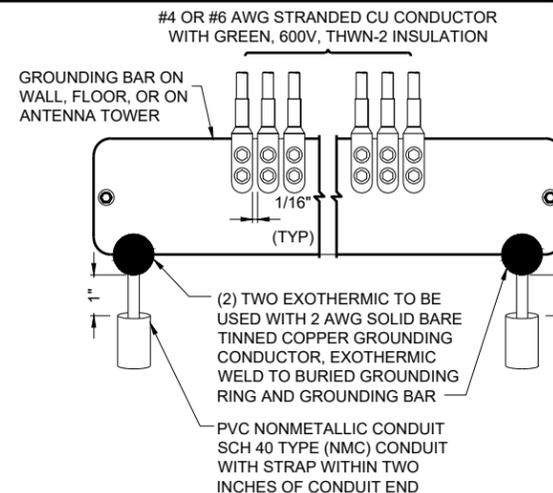
11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

CABLE GROUND KIT DETAIL

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

WIRE TO GROUND BAR CONNECTION

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.



**NODE INFORMATION**

CROWN NODE ID: **CA002\_CLC\_CULVER\_023**  
 POLE ID: **GT72469**  
 POLE OWNER: **VERIZON**  
 POWER PROVIDER: **SCE**  
 HUB ID: **124780 (MARINA MTSO)**  
 CLUSTER/AREA: **PRP\_VZW\_VCA2-RELOOK\_FIBER MARINA MTSO\_35 NODES**  
 LATITUDE: **33.991039°**  
 LONGITUDE: **-118.403864°**  
 NEAREST ADDRESS: **11622 PORT RD**  
 AZIMUTH: **120°, 240°, 0°**

**POWER SOURCE POLE INFORMATION**

POWER POLE ID: **885491E**  
 POLE OWNER: **SCE**  
 LATITUDE: **33.990466°**  
 LONGITUDE: **-118.405194°**  
 WTR ADDRESS: **11701 7/8 PORT RD**

ENGINEER:



ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:

**CROWN CASTLE  
POLE #: GT72469**

**REVISIONS**

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER: **CA002\_CLC\_CULVER\_023**

SHEET NAME: **GROUNDING DETAILS**

DATE DRAWN: **08/31/2023**

SCALE: **AS SHOWN**

**G-1**

**CROWN CASTLE  
NODE POLE PHOTOS**

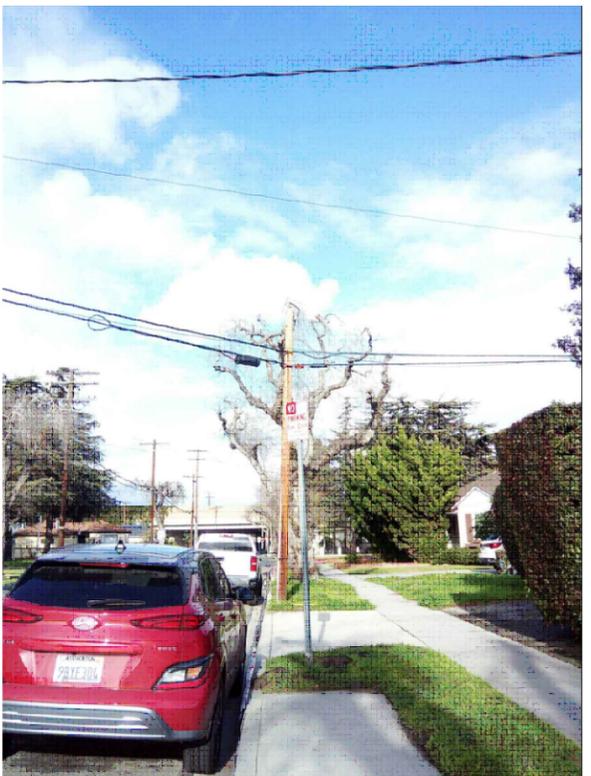
NODE ID:  
**CA002\_CLC\_CULVER\_023**



LOOKING NORTHWEST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

1



LOOKING NORTH

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

2



LOOKING NORTHEAST

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

3



NOT USED

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

4

NODE INFORMATION	
CROWN NODE ID	CA002_CLC_CULVER_023
POLE ID	GT72469
POLE OWNER	VERIZON
POWER PROVIDER:	SCE
HUB ID:	124780 (MARINA MTSO)
CLUSTER/AREA:	PRP_VZW_VCA2-RELOOK_FIBER MARINA MTSO_35 NODES
LATITUDE:	33.991039°
LONGITUDE:	-118.403864°
NEAREST ADDRESS:	11622 PORT RD
AZIMUTH:	120°, 240°, 0°

POWER SOURCE POLE INFORMATION	
POWER POLE ID:	885491E
POLE OWNER:	SCE
LATITUDE:	33.990466°
LONGITUDE:	-118.405194°
WTR ADDRESS:	11701 7/8 PORT RD

ENGINEER:



**Pramira**  
ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



**CROWN CASTLE**  
200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:  
**CROWN CASTLE  
POLE #: GT72469**

REVISIONS			
REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	NODE POLE PHOTOS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

**P-1**

CROWN CASTLE  
POWER POLE PHOTOS

NODE ID:  
CA002\_CLC\_CULVER\_023



LOOKING SW

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

1



LOOKING SOUTH

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

2



LOOKING SE

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

3



NOT USED

11"x17" SCALE: N.T.S.  
24"x36" SCALE: N.T.S.

4

NODE INFORMATION

CROWN NODE ID: CA002\_CLC\_CULVER\_023  
POLE ID: GT72469  
POLE OWNER: VERIZON  
POWER PROVIDER: SCE  
HUB ID: 124780 (MARINA MTSO)  
CLUSTER/AREA: PRP\_VZW\_VCA2-RELOOK\_FIBER\_MARINA MTSO\_35 NODES  
LATITUDE: 33.991039°  
LONGITUDE: -118.403864°  
NEAREST ADDRESS: 11622 PORT RD  
AZIMUTH: 120°, 240°, 0°

POWER SOURCE POLE INFORMATION

POWER POLE ID: 885491E  
POLE OWNER: SCE  
LATITUDE: 33.990466°  
LONGITUDE: -118.405194°  
WTR ADDRESS: 11701 7/8 PORT RD

ENGINEER:



**Pramira**

ARCHITECTURAL & ENGINEERING SERVICES

OWNER/DEVELOPER:



200 SPECTRUM CENTER DRIVE, 19TH FLOOR  
IRVINE, CA 92618

TITLE:

CROWN CASTLE  
POLE #: GT72469

REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY: CHECKED BY: APPROVED BY:

SY G.A. G.A.

PROJECT NUMBER: CA002\_CLC\_CULVER\_023

SHEET NAME: POWER POLE PHOTOS

DATE DRAWN: 08/31/2023

SCALE: AS SHOWN

P-2

# CROWN CASTLE EQUIPMENT DETAILS

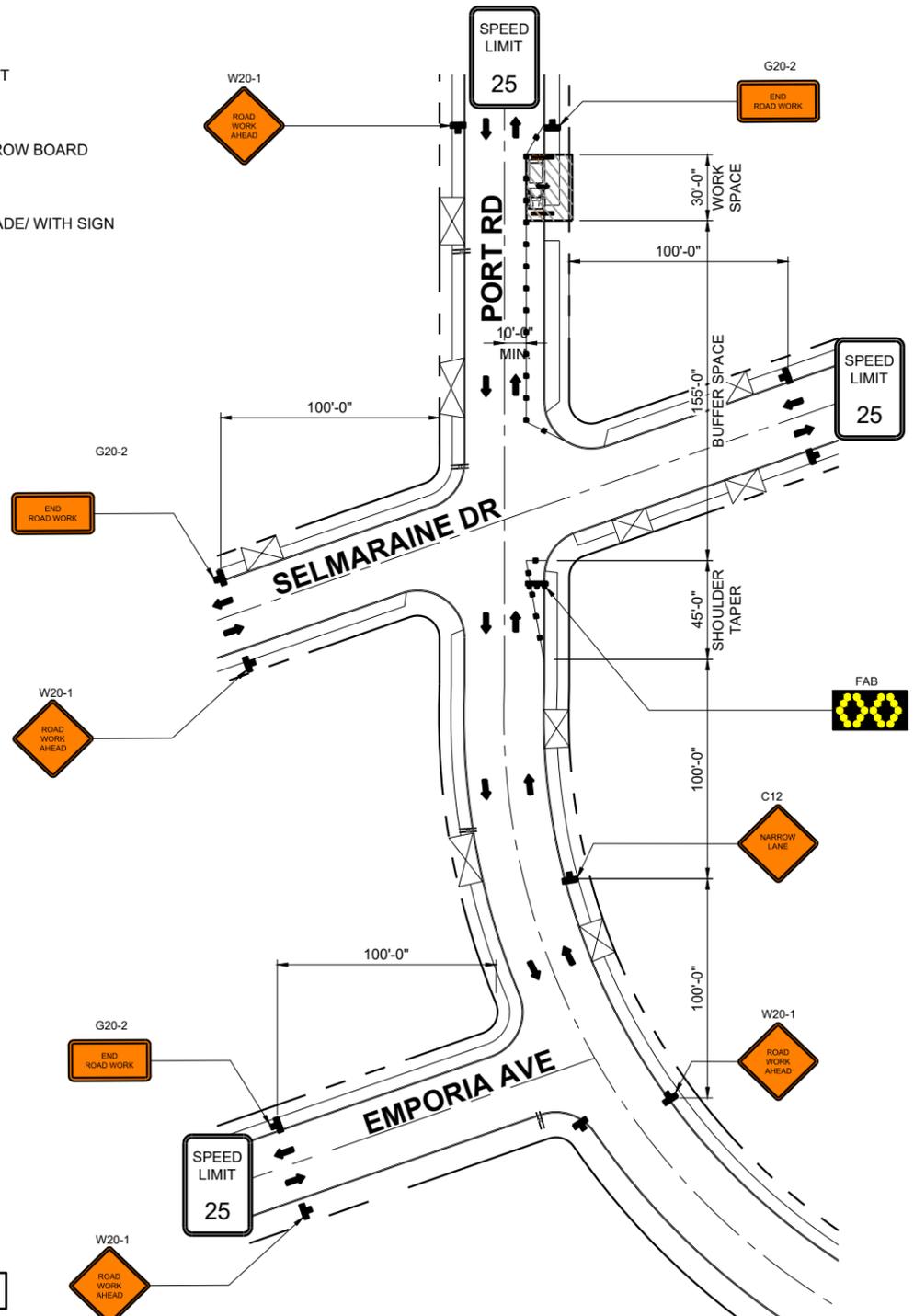
NODE ID:  
**CA002\_CLC\_CULVER\_023**

NOTE: TRAFFIC CONTROL PLAN IS BASED ON THE 2019 "WATCH MANUAL.", PAGE 35

- NOTES:
- THE CONTRACTOR SHALL COORDINATE WITH TRANSPORTATION DEPARTMENT TO RELOCATE ANY AFFECTED EXISTING BUS STOP(S) IF NECESSARY AT LEAST 3 WEEKS IN ADVANCE - 310.253.5635.
  - LANE CLOSURES CAN ONLY OCCUR BETWEEN 9AM TO 3PM UNLESS OTHERWISE APPROVED BY THE PUBLIC WORKS DIRECTOR.
  - TRAFFIC CONTROL IS SUBJECT TO FIELD MODIFICATION TO THE SATISFACTION OF THE PUBLIC WORKS INSPECTOR.

**LEGEND**

- T.A.N.S.A.T. - TOW AWAY NO STOPPING AT ANYTIME
- SIGNALIZED INTERSECTION
  - TRAFFIC CONE
  - EXISTING DRIVEWAY
  - PROPOSED SIGN AND POST
  - PROPOSED WORK AREA
  - PROPOSED FLASHING ARROW BOARD
  - FLAGGER
  - EXISTING TYPE III BARRICADE/ WITH SIGN
  - BUS STOP
  - DIRECTION OF TRAVEL



WORKING HOURS: TYP. 9:00AM - 3:00PM

## DURATION NOTES

- WORK OPERATIONS ARE 60 MINUTES OR LESS
- SPEED LIMIT IS 45 MPH OR LESS
- NO SIGHT OBSTRUCTIONS TO VEHICLES APPROACHING THE WORK AREA FOR A DISTANCE EQUAL TO THE BUFFER SPACE
- VEHICLES IN THE WORK AREA HAVE HIGH-INTENSITY, ROTATING, FLASHING, OSCILLATING, OR STROBE LIGHTS OPERATING
- VOLUME AND COMPLEXITY OF THE ROADWAY HAS BEEN CONSIDERED

## GENERAL NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE WORK AREA TRAFFIC CONTROL HANDBOOK (WATCH) 2019 EDITION.
- ALL STRINGS AND MARKINGS SHALL CONFORM TO THE STATE OF CALIFORNIA, STANDARD PLANS AND SPECIFICATIONS, INCLUDING STANDARD PLAN A-20, DETAILS.
- THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES.
- FLASHING YELLOW BEACONS, TYPE "B", SHALL BE USED ON ALL W20-1 SIGNS AND ON ALL TYPE III BARRICADES GUARDING THE WORK AREA OVERNIGHT.
- ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
- ALL TUBULAR DELINEATORS AND CONES SHALL BE 28" MINIMUM HEIGHT, REFLECTORIZED AND MAINTAINED ERECT IN THE INDICATED POSITION AT ALL TIMES, AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY, AND SHALL INCLUDE A 12" HIGH-INTENSITY REFLECTORIZED SLEEVE, IF USED DURING NIGHT-TIME HOURS.
- THE CONTRACTOR SHALL MAINTAIN ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
- THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
- CONSTRUCTION OPERATION SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS.
- ADDITIONAL TRAFFIC CONTROLS, TRAFFIC SIGNS, OR BARRICADING MAY BE REQUIRED IN THE FIELD. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLACEMENT OF ANY ADDITIONAL DEVICES NECESSARY TO ASSURE SAFETY TO THE PUBLIC AT ALL TIMES DURING CONSTRUCTION.
- EXACT LOCATION AND TYPE OF CONSTRUCTION SIGNS SHALL BE DIRECTED BY THE ENGINEER BASED UPON CONSTRUCTION CONDITIONS.
- MOVE DELINEATORS AND/OR CONES TO SIDEWALK DURING NON-WORKING HOURS. REMOVE BARRICADES ETC. FROM TRAVEL LANE.
- REMOVE OR TUNE OFF SIGNS DURING NON-WORK HOURS.
- ALL CONFLICTING LINES, EXISTING CURB PAINT, AND MARKING SHALL BE REMOVED BY WET SANDBLASTING OR OTHER APPROVED METHOD PRIOR TO INSTALLATION OF NEW/TEMPORARY STRIPING. ALL CONFLICTING RAISED PAVEMENT MARKERS SHALL BE REMOVED. PAVEMENT THAT IS DAMAGED DUE TO REMOVAL OF MARKERS SHALL BE REPAIRED TO THE SATISFACTION OF THE CITY ENGINEER AND/OR STATE INSPECTOR.
- "ROAD WORK AHEAD" AND THE "BE PREPARED TO STOP" SIGNS MAY BE OMITTED IF ALL OF THE FOLLOWING CONDITIONS ARE MET.

## DIMENSION GUIDELINE

**TEMPORARY TRAFFIC CONTROL PLAN DIMENSION GUIDELINES**

SPEED MPH (2)	Dimension A/B/C ADVANCE AMONG SIGN SPACING (5)		Dimension L MERGING TAPER LENGTH		Dimension L/2 SHIFTING TAPER LENGTH		Dimension T BUFFER SPACE (4-A) and FLAGGER STATION STOPPING SIGHT DISTANCE (4-B) (-85)			MINIMUM CHANNELIZER TAPER SPACING (3)	MINIMUM CHANNELIZER TANGENT SPACING (3)	MINIMUM CHANNELIZER CONFLICT SPACING (6)
	ft	ft	ft	ft	ft	ft	(155)	(160)	(165)	ft	ft	ft
25	100	125	65	45	60	(200)	(205)	(210)	25	50	12	
30	180	180	90	60	60	(200)	(205)	(210)	30	60	15	
35	250	245	125	85	65	(250)	(260)	(275)	35	70	17	
40	250	320	160	110	(300)	(315)	(335)	40	80	20		
45	350	540	270	180	(350)	(360)	(400)	45	90	22		
50	350	600	300	200	(425)	(430)	(475)	50	100	25		
55	500	660	330	220	(495)	(520)	(555)	50	100	25		
60	500	720	360	240	(570)	(600)	(640)	50	100	25		
65	500	780	390	260	(645)	(680)	(730)	50	100	25		

- Work on Freeways and Expressways shall meet the Caltrans Standard Plans and Standard Specification requirements.
- Posted Speed or observed operating speed (whichever is greater)
- Channelizer spacing shall be reduced by half of areas where work is taking place on a curved or areas of head-on conflict.
- Buffer space may be inserted in low-speed urban areas and should be inserted in high-speed urban and rural areas.
- The Stopping Sight Distance should enable Road User to see the Primary Flagger Station and safely stop.
- Sign spacing in rural areas should be 500 ft.
- \*\* Table 6F-101(CA)

## REVISIONS

REV	DATE	DESCRIPTION	BY
A	08/31/2023	90% CONSTRUCTION DRAWINGS	SY
B	09/21/2023	95% CONSTRUCTION DRAWINGS	KA

DRAWN BY:	CHECKED BY:	APPROVED BY:
SY	G.A.	G.A.

PROJECT NUMBER:	CA002_CLC_CULVER_023
SHEET NAME:	EQUIPMENT DETAILS
DATE DRAWN:	08/31/2023
SCALE:	AS SHOWN

# TCP-1

## TRAFFIC CONTROL PLAN

24"x36" SCALE: NTS  
11"x17" SCALE: NTS

SCE - EMB TEMPLATE UPDATED: 9/22/2023 7:56:48 AM