



SITE ID: ASG31M2

**NEAR: 28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074**



200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: BM

CHECKED BY: MM

PROJECT DESCRIPTION

CROWN CASTLE PROPOSES A NEW WIRELESS INSTALLATION ON AN EXISTING STEEL UTILITY POLE IN THE PUBLIC RIGHT OF WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- INSTALL (1) (N) 30'-0" STEEL CONCRETE POLE WITH LUMINAIRE PORTS
- INSTALL (1) (N) 2'-0" CANNISTER ANTENNA W/ MOUNTING BRACKET AND SHROUD
- INSTALL (1) (N) 2'-0" X 3'-0" HANDHOLE W/ WTR FUSE BOX INSIDE
- INSTALL (1) (N) 2'-0" X 3'-0" FIBER HANDHOLE
- INSTALL (1) (N) ELECTRICAL DISCONNECT SWITCH INSIDE (N) HANDHOLE
- INSTALL (1) (N) 4'-0" X 6'-0" U/G EQUIPMENT VAULT WITH FLUSH MOUNT VENTS
- INSTALL (2) (N) ANDREW ION RADIO UNITS INSIDE (N) EQUIPMENT VAULT

PROJECT SITE INFORMATION

PUBLIC/PRIVATE: PUBLIC RIGHT-OF-WAY
 NEAREST CROSS STREETS: CRESTRIDGE RD
 CRENSHAW BLVD
 NEAREST ADDRESS: 28602 CRESTRIDGE
 NEAREST APN: 7574-002-049
 LAT/LONG TYPE: NAD-83
 LATITUDE: 33.7669083
 LONGITUDE: -118.3714111
 ZONING JURISDICTION: RANCHO PALOS VERDES
 APPLICANT: CROWN CASTLE
 ADDRESS: 200 SPECTRUM CENTER DRIVE, SUITE 1800
 IRVINE, CA 92618

PROJECT TEAM

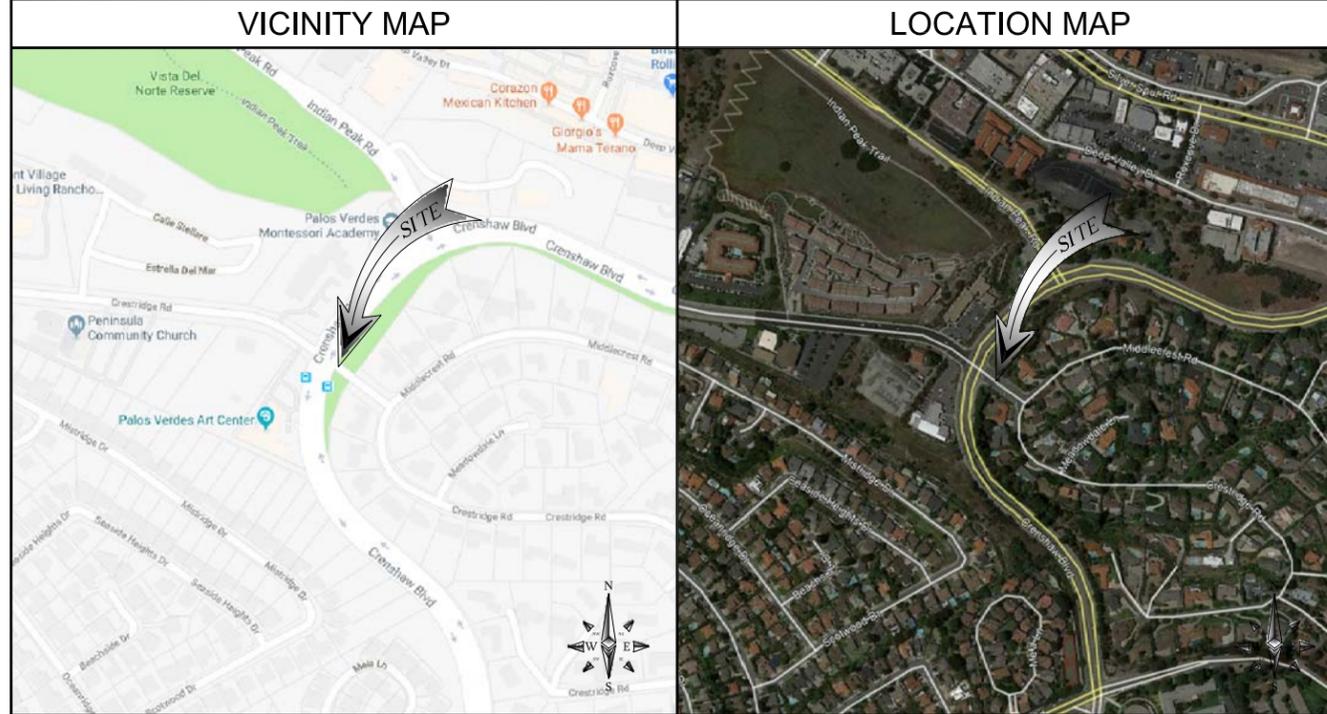
CLIENT REPRESENTATIVE:
 CROWN CASTLE
 200 SPECTRUM CENTER DRIVE, SUITE 1800
 IRVINE, CA 92618

ENGINEER:
 M SQUARED WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE, CA 92673
 CONTACT: MICHAEL MONTELLO
 PHONE: (949) 391-8824

PROJECT MANAGER:
 CROWN CASTLE
 200 SPECTRUM CENTER DRIVE, SUITE 1800
 IRVINE, CA 92618
 CONTACT: JON COWELL
 PH: (925) 200-6857

CONSTRUCTION MANAGER:
 CROWN CASTLE
 200 SPECTRUM CENTER DRIVE, SUITE 1800
 IRVINE, CA 92618
 CONTACT: KENNETH HOBBS
 PH: (714) 251-9839

AREA MAPS



CONSTRUCTION DRAWING

IF USING 11"x17" PLOT, DRAWING WILL BE HALF SCALE

DRAWING INDEX

SHEET	SHEET TITLE	SHEET	SHEET TITLE
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GN-1	GENERAL NOTES	E-1	ELECTRICAL DETAILS
PS-1	PHOTOSIMULATIONS	G-1	GROUNDING DETAILS
PS-2	PHOTOSIMULATIONS	TC-1	TRAFFIC CONTROL
PS-3	PHOTOSIMULATIONS	TC-2	TRAFFIC CONTROL
PS-4	PHOTOSIMULATIONS	TC-3	TRAFFIC CONTROL
PS-5	PHOTOSIMULATIONS	TC-4	TRAFFIC CONTROL
PS-6	PHOTOSIMULATIONS		
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A-3	ELEVATION		

APPLICABLE CODES

ALL WORK AND MATERIALS SHALL BE PERFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES.

- 2016 CALIFORNIA BUILDING CODE
- GO95
- CITY/COUNTY ORDINANCES

GENERAL NOTES

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

DO NOT SCALE DRAWINGS.

DIG ALERT



Dig Alert

Know what's below.
Call before you dig.

CALIFORNIA SOUTH
Call Two Working Days Before You Dig!
811 / 800-227-2600

REV	DATE	DESCRIPTION
3	05/09/2019	100% CD'S REVISED
2	05/02/2019	100% CD'S REVISED - JX
1	04/04/2019	JX COMMENTS
0	03/06/2019	100% CD'S FOR SUBMITTAL
C	02/13/2019	90% CD'S REVISED
B	01/30/2019	90% CD'S FOR REVIEW
A	01/21/2019	90% CD'S FOR REVIEW



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ASG31M2
CROWN CASTLE SITE ID: 242727
CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE

TITLE SHEET

SHEET NUMBER

T-1

GENERAL NOTES

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:

1. ALL REQUIREMENTS OF THE CITY OF RANCHO PALOS VERDES "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.
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREET(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
4. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
5. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON.
6. 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.
7. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION/SEDIMENT CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
8. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED IMPROVEMENT PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
9. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
10. THE CONTRACTOR SHALL 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:

1. CONTRACTOR TO POTHOLE ALL UTILITY CROSSINGS.
2. CONTRACTOR TO PLACE SANDBAGS AROUND ANY/ALL STORM DRAIN INLETS TO PREVENT CONTAMINATED WATER.
3. SPOILS PILE WILL BE COVERED AND CONTAINED AND STREET WILL BE SWEEPED AND CLEANED AS NEEDED.
4. CONTRACTOR TO REPAIR DAMAGED PUBLIC IMPROVEMENTS TO THE SATISFACTION OF THE CITY ENGINEER.
5. CURB & GUTTER TO BE PROTECTED IN PLACE. SIDEWALK TO BE REPLACED TO THE SATISFACTION OF THE CITY ENGINEER.
6. THE CONTRACTOR 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.
7. SIDEWALK SHALL BE RESTORED/REPLACED PER CITY OF LOS ANGELES STANDARD DRAWINGS.
8. PEDESTRIAN RAMP WILL NOT BE DISTURBED.

ROW GROUND CONSTRUCTION NOTES:

1. GROUND CONSTRUCTION TO REMOVE/CLEAN ALL DEBRIS, NAILS, STAPLES, OR NON-USED VERTICALS OFF THE POLE.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH MUNICIPAL, COUNTY, STATE, FEDERAL, G095 AND G0128 STANDARDS AND REGULATIONS.
3. CALL USA 48 HOURS PRIOR TO EXCAVATING AT (800) 227-2600 OR 811.
4. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITION OR BETTER.
5. ALL EQUIPMENT TO BE BONDED.
6. METERING CABINET REQUIRES 36" CLEARANCE AT DOOR OPENING.
7. CAULK CABINET BASE AT PAD.

NORMAL LOCATION OF UNDERGROUND UTILITIES NOTES:

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

CALIFORNIA STATE CODE COMPLIANCE

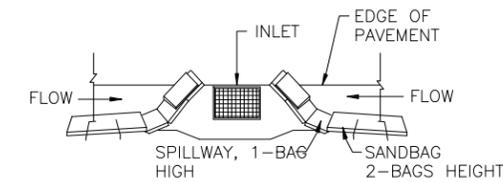
ALL WORK AND MATERIALS SHALL BE PREFORMED AND INSTALLED IN ACCORDANCE WITH THE CURRENT EDITIONS OF THE FOLLOWING CODES AS ADOPTED BY THE LOCAL GOVERNING AUTHORITIES. NOTHING IN THESE PLANS IS TO BE CONSTRUCTED TO PERMIT WORK NOT CONFORMING TO THESE CODES:

CALIFORNIA ADMINISTRATIVE CODE (INCLUDING TITLES 24 & 25) 2016
 2016 CALIFORNIA BUILDING CODES WHICH ADOPTS THE 2016 UBC, 2016 UMC, 2016 UPC AND THE 2016 NEC.
 BUILDING OFFICIALS & CODE ADMINISTRATORS (BOCA)
 2016 CALIFORNIA MECHANICAL CODE
 ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
 2016 CALIFORNIA PLUMBING CODE
 2016 CALIFORNIA ELECTRICAL CODE
 2016 LOCAL BUILDING CODE
 CITY/COUNTY ORDINANCES

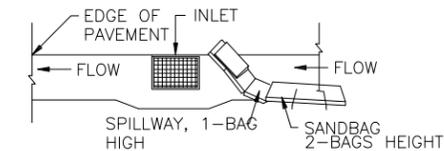
ACCESSIBILITY REQUIREMENTS:
 FACILITY IS UNMANNED AND NOT FOR HUMAN HABITATION. HANDICAPPED ACCESS REQUIREMENTS DO NOT APPLY IN ACCORDANCE WITH THE 2016 CALIFORNIA BUILDING CODE.

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.

STORMDRAIN INLET PROTECTION



TYPICAL PROTECTION FOR INLET WITH OPPOSING FLOW DIRECTIONS



TYPICAL PROTECTION FOR INLET WITH SINGLE FLOW DIRECTION

NOTES:

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



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 CROWN CASTLE NG WEST
 28602 CRESTRIDGE
 RANCHO PALOS VERDES, CA 92074
 (N) STEEL POLE

SHEET TITLE
GENERAL NOTES

SHEET NUMBER
GN-1



ASG31M2

NEAR: 28602 CRESTRIDGE RANCHO PALOS VERDES, CA 92074



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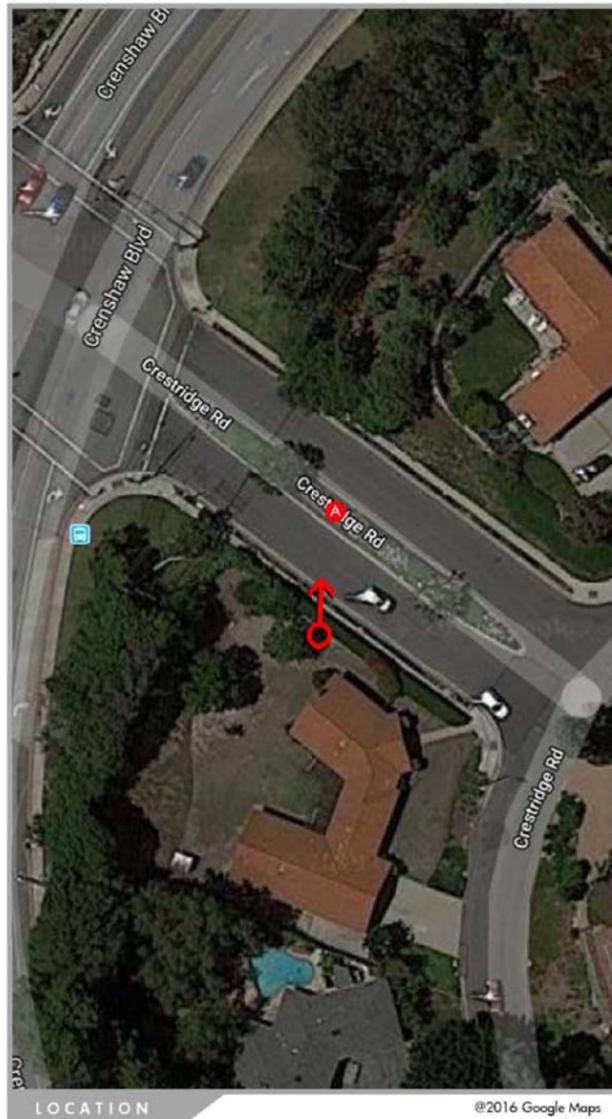
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SHEET TITLE
PHOTOSIMULATIONS

SHEET NUMBER
PS-1

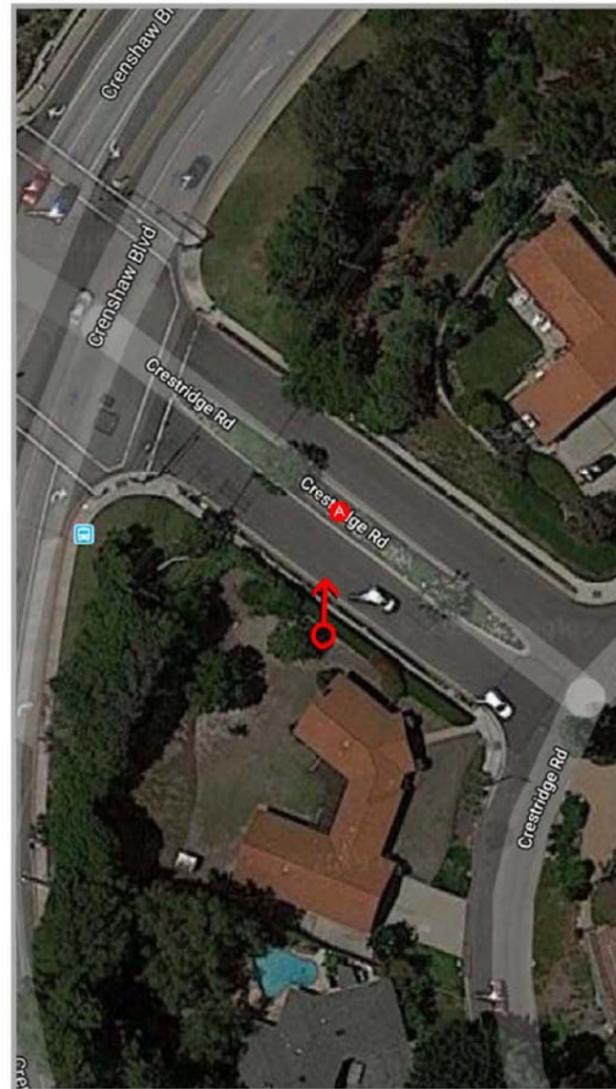


VIEW 1 | OPTION 1



ASG31M2

NEAR: 28602 CRESTRIDGE RANCHO PALOS VERDES, CA 92074



LOCATION @2016 Google Maps



PROPOSED VIEW 1 | OPTION 1

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PHOTOSIMULATIONS

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PS-2



ASG31M2

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(N) STEEL POLE

SHEET TITLE
PHOTOSIMULATIONS

SHEET NUMBER
PS-3



LOCATION @2016 Google Maps



EXISTING

VIEW 2 | OPTION 1



ASG31M2

NEAR: 28602 CRESTRIDGE RANCHO PALOS VERDES, CA 92074



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PROPOSED VIEW 2 | OPTION 1

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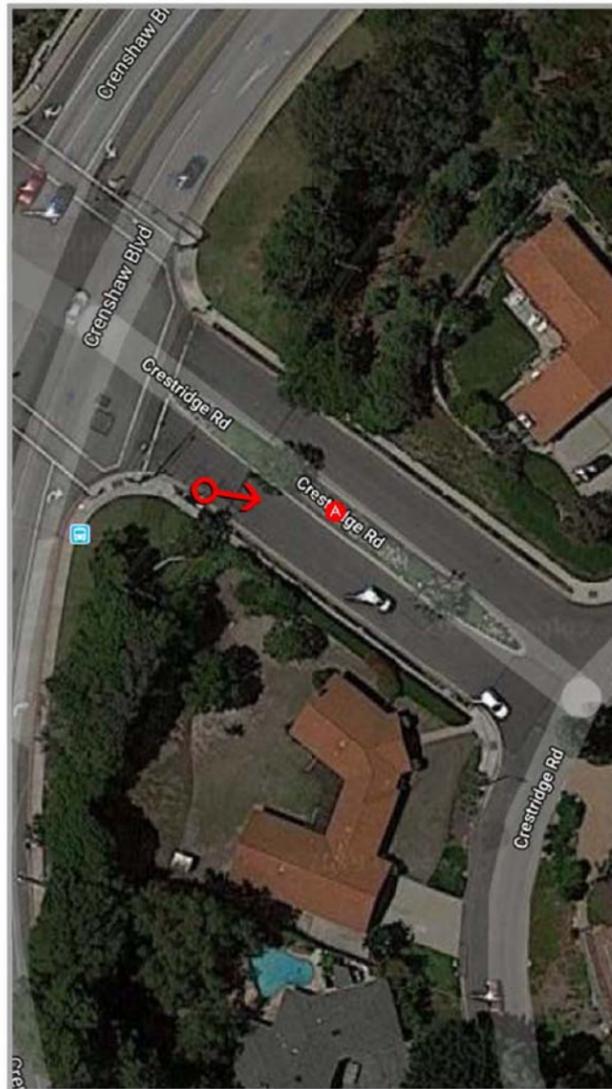
SHEET TITLE
PHOTOSIMULATIONS

SHEET NUMBER
PS-4



ASG31M2

NEAR: 28602 CRESTRIDGE RANCHO PALOS VERDES, CA 92074



LOCATION @2016 Google Maps



EXISTING VIEW 3 | OPTION 1

DRAWN BY: BM

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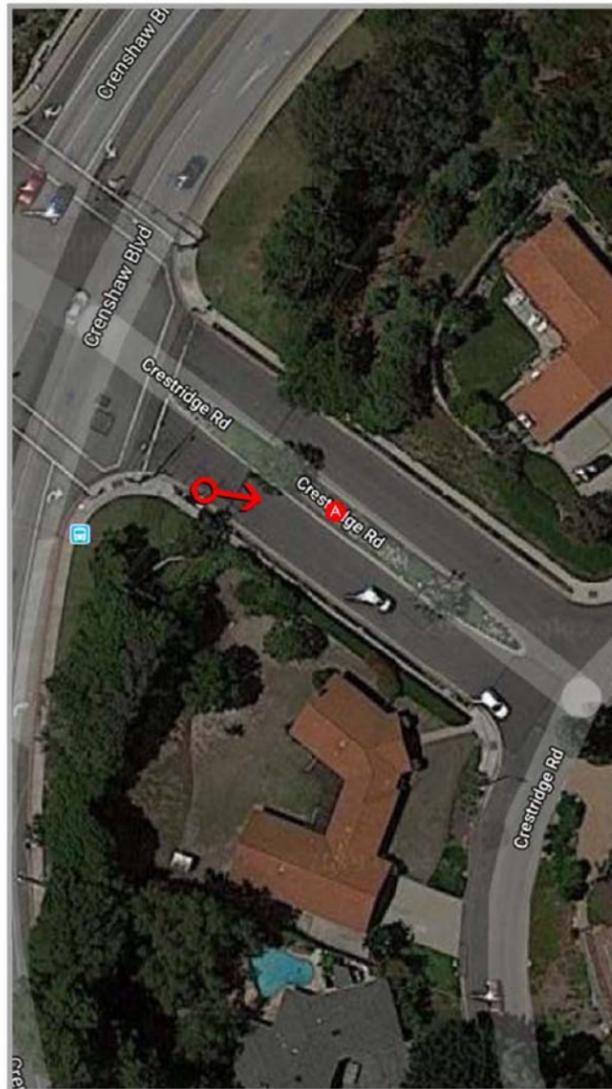
SHEET TITLE
PHOTOSIMULATIONS

SHEET NUMBER
PS-5



ASG31M2

NEAR: 28602 CRESTRIDGE RANCHO PALOS VERDES, CA 92074



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PROPOSED VIEW 3 | OPTION 1

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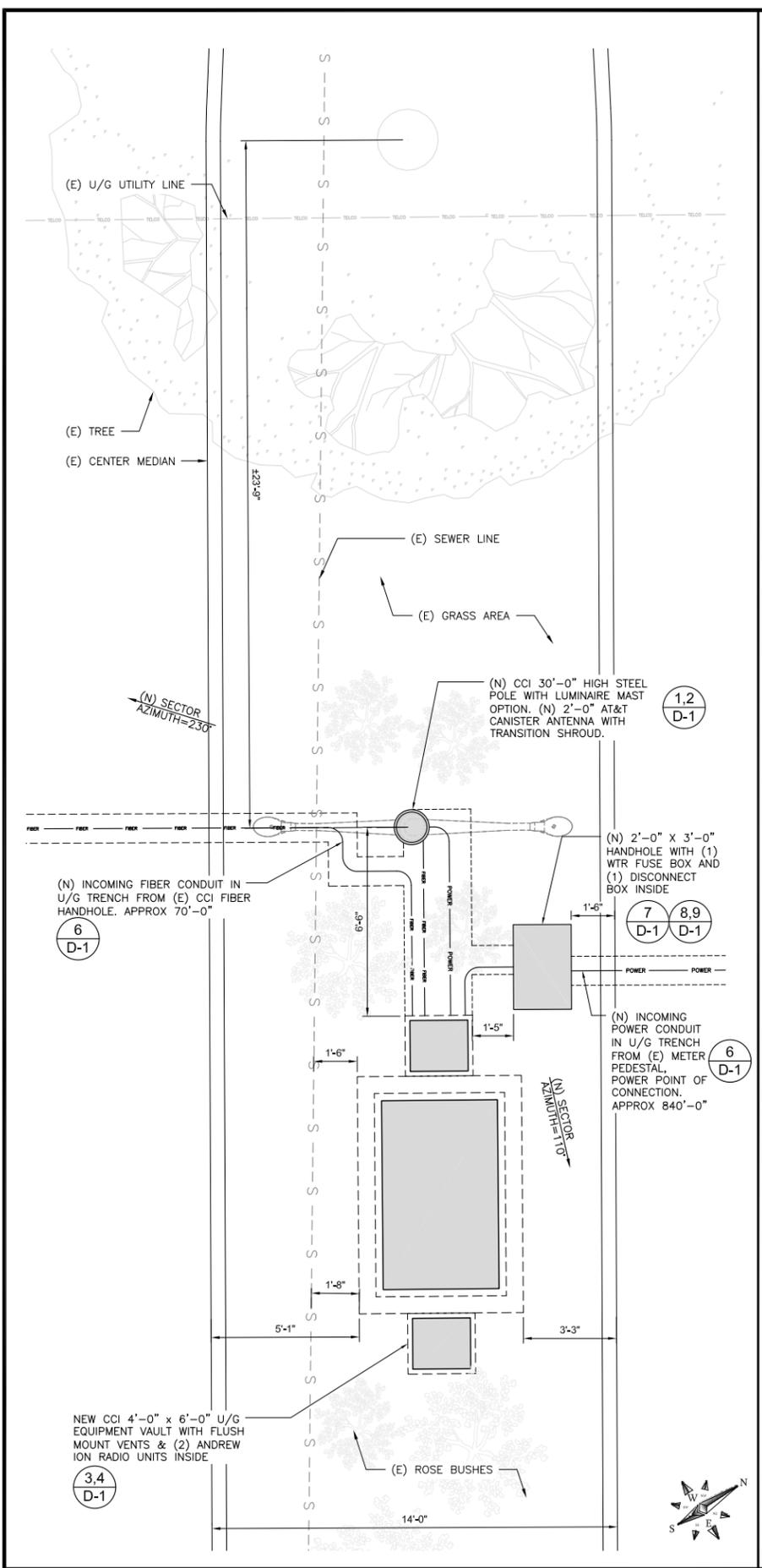
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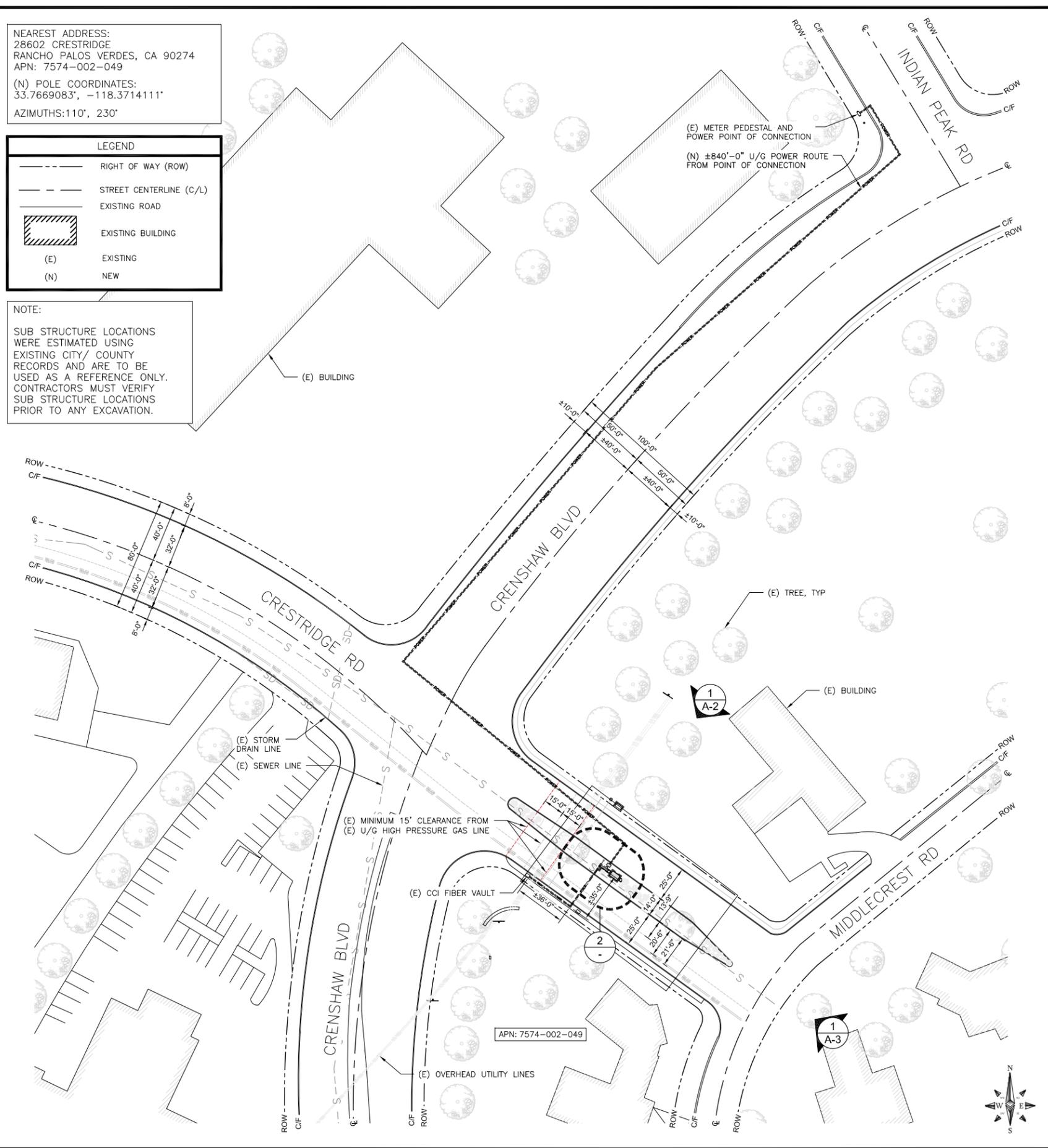
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SHEET TITLE
PHOTOSIMULATIONS

SHEET NUMBER
PS-6



ENLARGED PLAN 24"x36" SCALE: 3/8" = 1'-0" 11"x17" SCALE: 3/16" = 1'-0" **2**



SITE PLAN 24"x36" SCALE: 1" = 40'-0" 11"x17" SCALE: 1" = 80'-0" **1**

NEAREST ADDRESS:
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 90274
APN: 7574-002-049
(N) POLE COORDINATES:
33.7669083', -118.3714111'
AZIMUTHS:110', 230'

LEGEND

	RIGHT OF WAY (ROW)
	STREET CENTERLINE (C/L)
	EXISTING ROAD
	EXISTING BUILDING
(E)	EXISTING
(N)	NEW

NOTE:
SUB STRUCTURE LOCATIONS WERE ESTIMATED USING EXISTING CITY/ COUNTY RECORDS AND ARE TO BE USED AS A REFERENCE ONLY. CONTRACTORS MUST VERIFY SUB STRUCTURE LOCATIONS PRIOR TO ANY EXCAVATION.

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REGISTERED PROFESSIONAL ENGINEER
LOYALL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

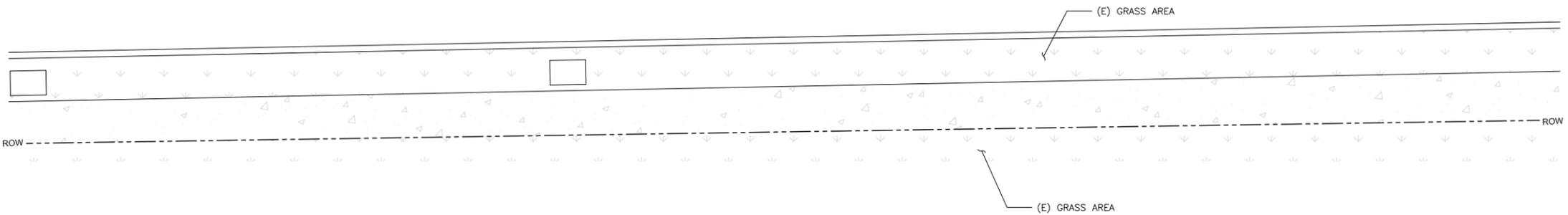
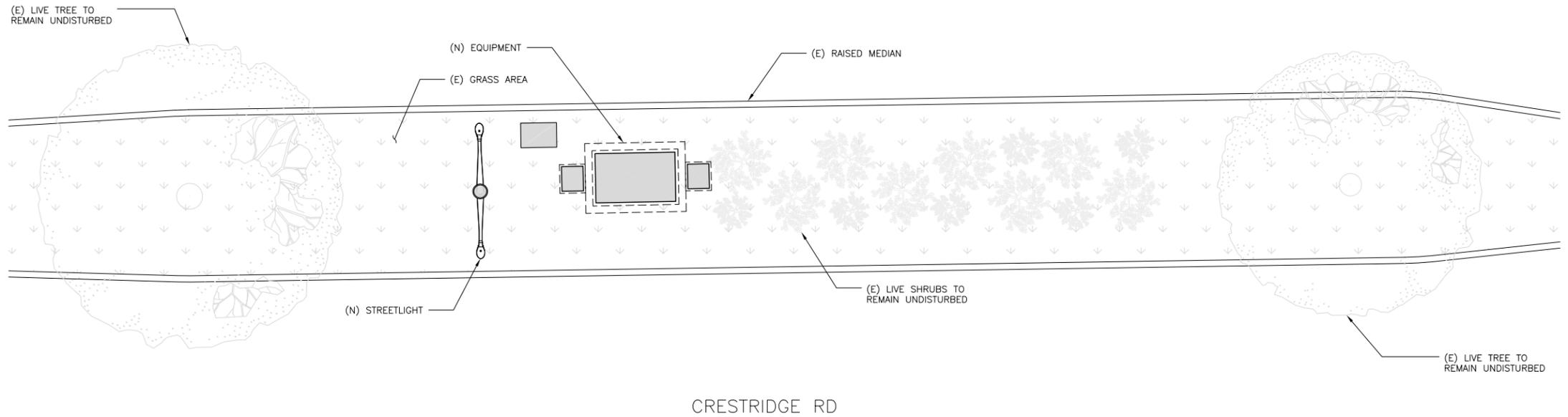
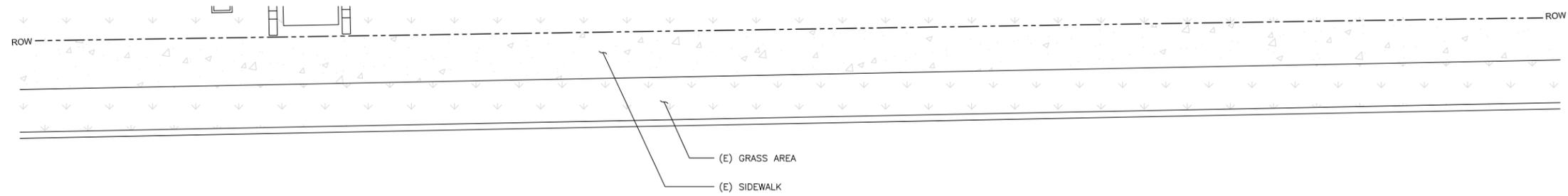
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CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 90274
(N) STEEL POLE

SHEET TITLE
SITE PLAN AND ENLARGED SITE PLAN

SHEET NUMBER
A-1

NOTE: NO PROPOSED LANDSCAPING, CONCEALMENT, SCREENING AND PROPOSED IRRIGATION TO BE ADDED AS PART OF THE PROJECT.



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SHEET TITLE
LANDSCAPE PLAN

SHEET NUMBER
A-1.1



TOP OF (N) STREET LIGHT LUMINAIRE (TYP.)
30'-3" A.G.L.

TOP OF (N) STEEL POLE & (N) CANISTER ANTENNA
30'-0" A.G.L.

RAD. CENTER OF (N) CANISTER ANTENNA
29'-0" A.G.L.

NOTES:

1. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITIONS.
2. RESTORE ASPHALT & ALL DISTURBED SURFACES BY NEW CABLE ROUTE PER CITY STANDARDS.
3. NEW STREET LIGHT POLE SHALL HAVE LUMINAIRE, (TYP.)
4. NEW STREET LIGHT POLE SHALL MATCH EXISTING STREET LIGHT POLES IN THE AREA, INCLUDING MATERIAL & COLOR (TYP.)

(N) 2' CANISTER ANTENNA WITH TRANSITION SHROUD; (1) TOTAL 1,2
D-1

(N) CCI 30'-0" HIGH STEEL POLE WITH LUMINAIRE MAST OPTION.

BOTTOM OF (N) CAUTION SIGN
10'-0" A.G.L.

(N) FCC RF CAUTION SIGN MOUNTED TO (N) STEEL POLE 5
D-1

GROUND
0'-0" A.G.L.

3,4
D-1 NEW CCI 4'-0" x 6'-0" U/G EQUIPMENT VAULT WITH FLUSH MOUNT VENTS & (2) ANDREW ION RADIO UNITS INSIDE

(N) 2'-0" x 3'-0" HANDHOLE WITH (1) WTR FUSE BOX AND (1) DISCONNECT BOX INSIDE 7
D-1 8,9
D-1

(N) INCOMING FIBER CONDUIT IN U/G TRENCH FROM (E) CCI FIBER HANDHOLE. APPROX 70'-0" 6
D-1

(N) INCOMING POWER CONDUIT IN U/G TRENCH FROM (E) METER PEDESTAL, POWER POINT OF CONNECTION. APPROX 840'-0" 6
D-1

(E) ROSE BUSHES, TYP

(E) CENTER MEDIAN

CROWN CASTLE
200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618

M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: BM
CHECKED BY: MM

REV	DATE	DESCRIPTION
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1	04/04/2019	JX COMMENTS
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ASG31M2
CROWN CASTLE SITE ID: 242727
CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
ELEVATION

SHEET NUMBER
A-2

NEW NORTHEAST ELEVATION

24"x36" SCALE: 1/2" = 1'-0"
11"x17" SCALE: 1/4" = 1'-0"



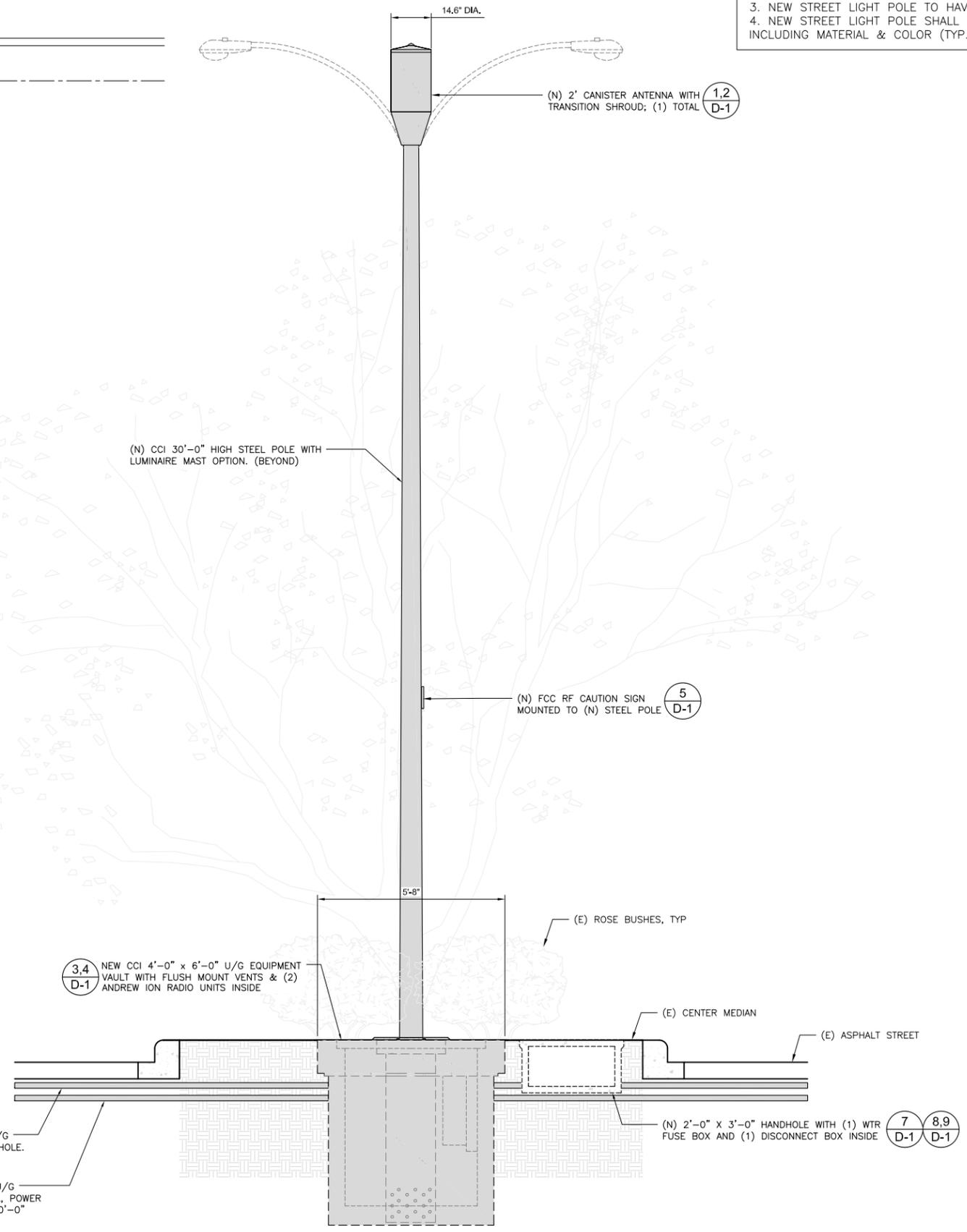
TOP OF (N) STREET LIGHT LUMINAIRE (TYP.)
 30'-3" A.G.L.
 TOP OF (N) STEEL POLE & (N) CANISTER ANTENNA
 30'-0" A.G.L.
 RAD CENTER OF (N) CANISTER ANTENNA
 29'-0" A.G.L.

NOTES:
 1. ALL LANDSCAPING TO BE RESTORED TO ORIGINAL CONDITIONS.
 2. RESTORE ASPHALT & ALL DISTURBED SURFACES BY NEW CABLE ROUTE PER CITY STANDARDS.
 3. NEW STREET LIGHT POLE TO HAVE LUMINAIRE, (TYP.)
 4. NEW STREET LIGHT POLE SHALL MATCH EXISTING STREET LIGHT POLES IN THE AREA, INCLUDING MATERIAL & COLOR (TYP.)

BOTTOM OF (N) CAUTION SIGN
 10'-0" A.G.L.

GROUND
 0'-0" A.G.L.

(N) INCOMING FIBER CONDUIT IN U/G TRENCH FROM (E) CCI FIBER HANDHOLE. APPROX 70'-0"
 (N) INCOMING POWER CONDUIT IN U/G TRENCH FROM (E) METER PEDESTAL, POWER POINT OF CONNECTION. APPROX 840'-0"



NEW SOUTHEAST ELEVATION

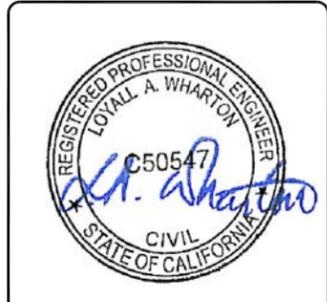
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 11"x17" SCALE: 1/4" = 1'-0"

CROWN CASTLE
 200 SPECTRUM CENTER DRIVE, SUITE 1800
 IRVINE, CA 92618

M SQUARE WIRELESS
 1387 CALLE AVANZADO
 SAN CLEMENTE CA 92673 (949) 391-8824

DRAWN BY: **BM**
 CHECKED BY: **MM**

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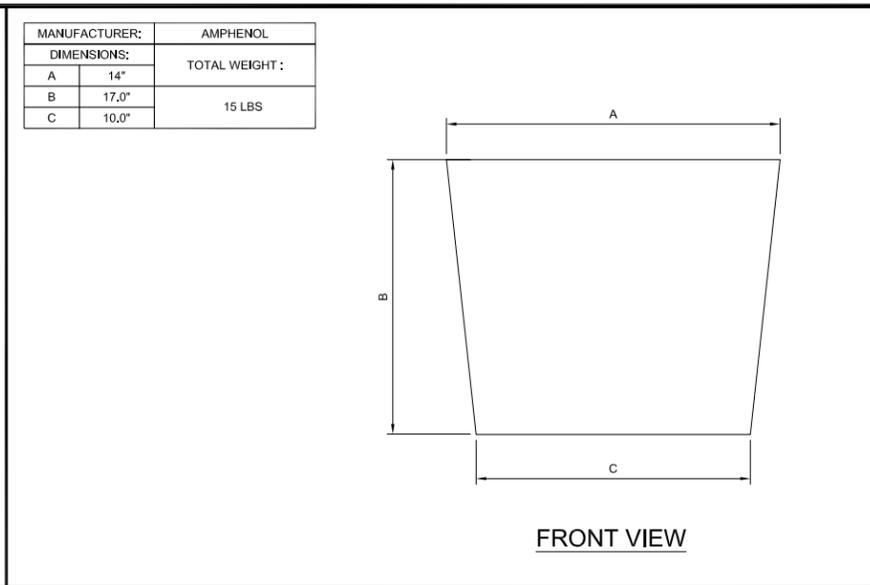
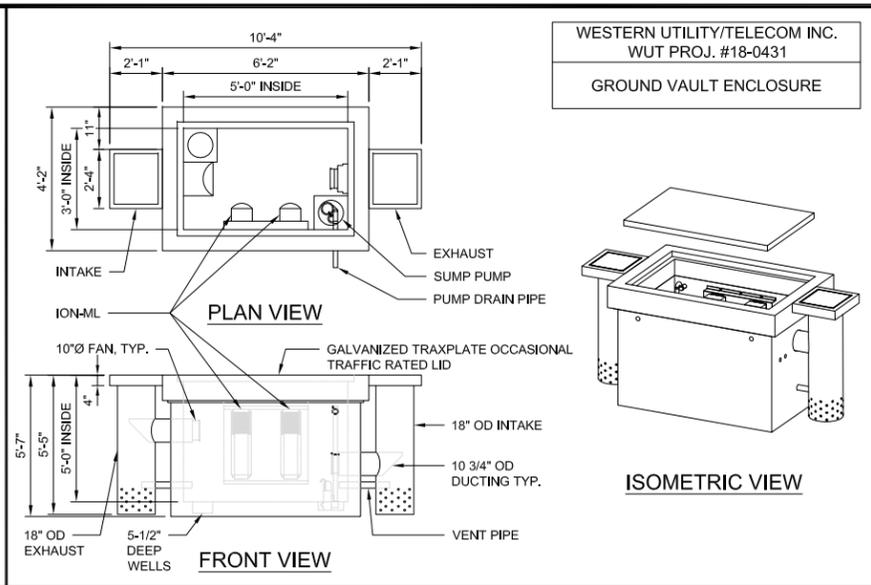
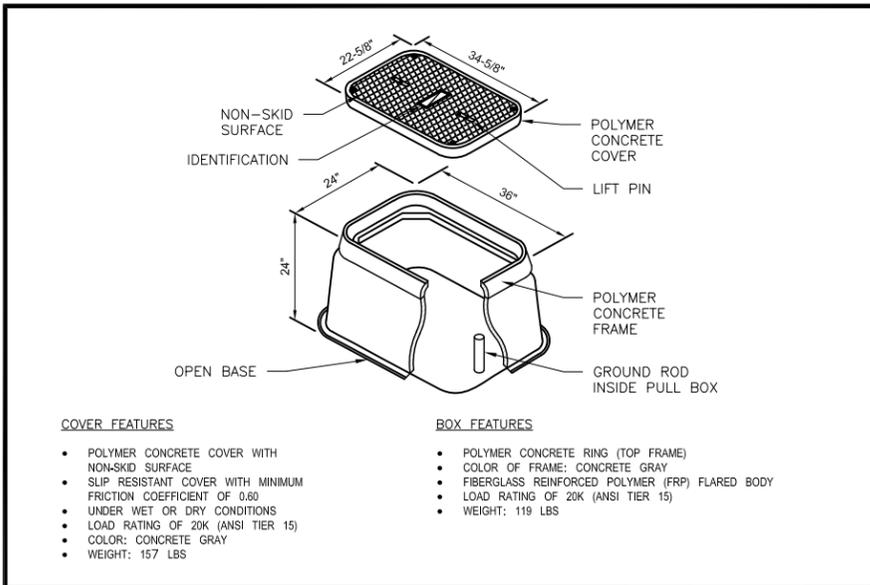


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CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
ELEVATION

SHEET NUMBER
A-3

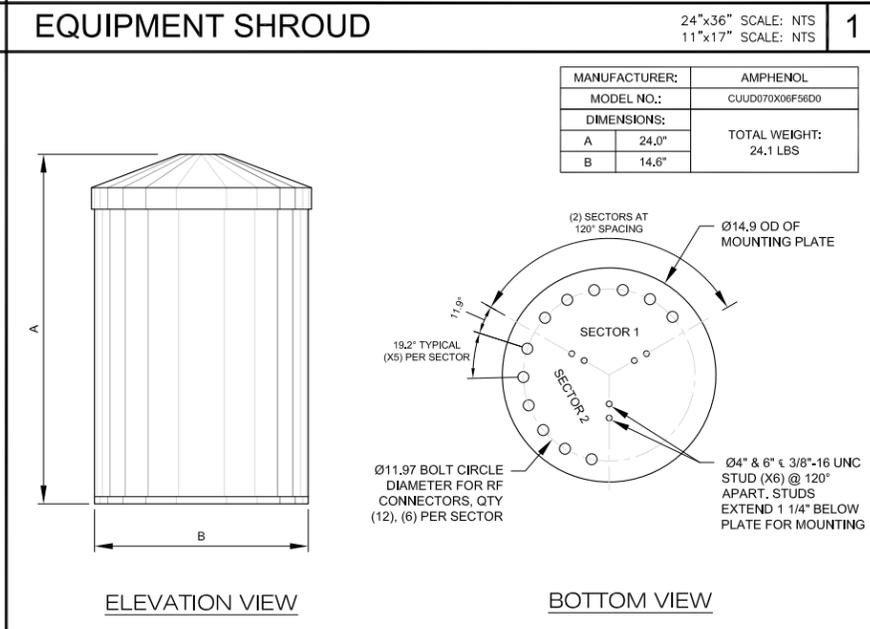
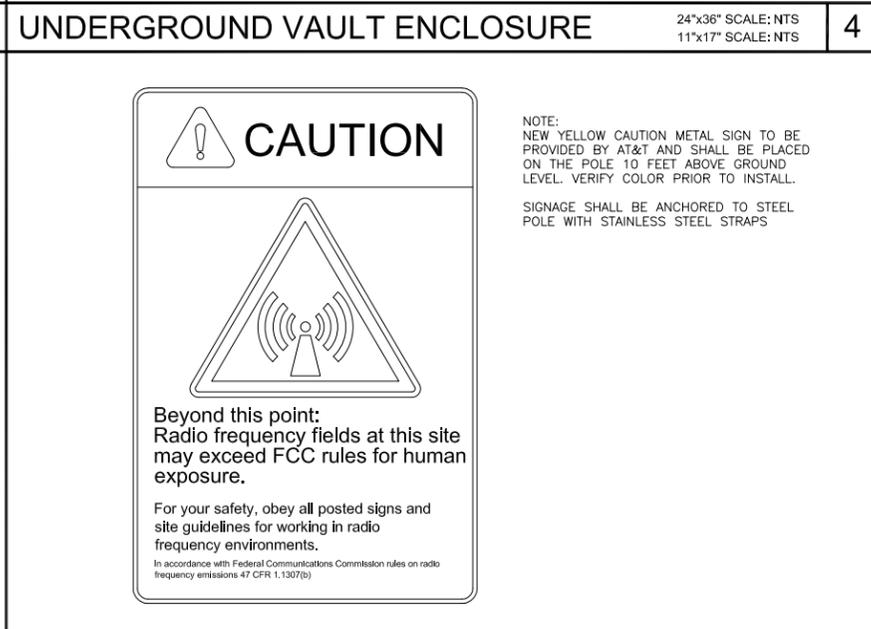
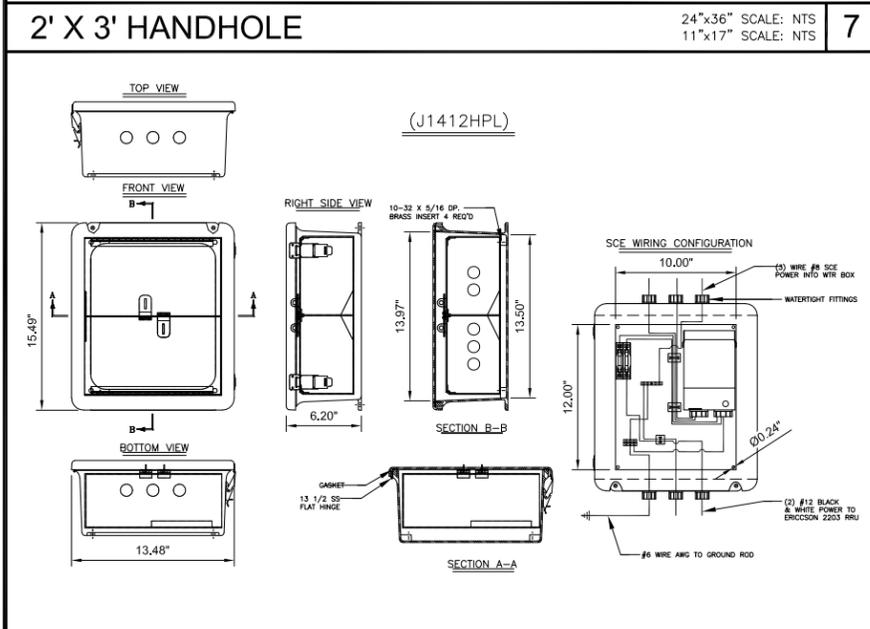


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M SQUARE WIRELESS
1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

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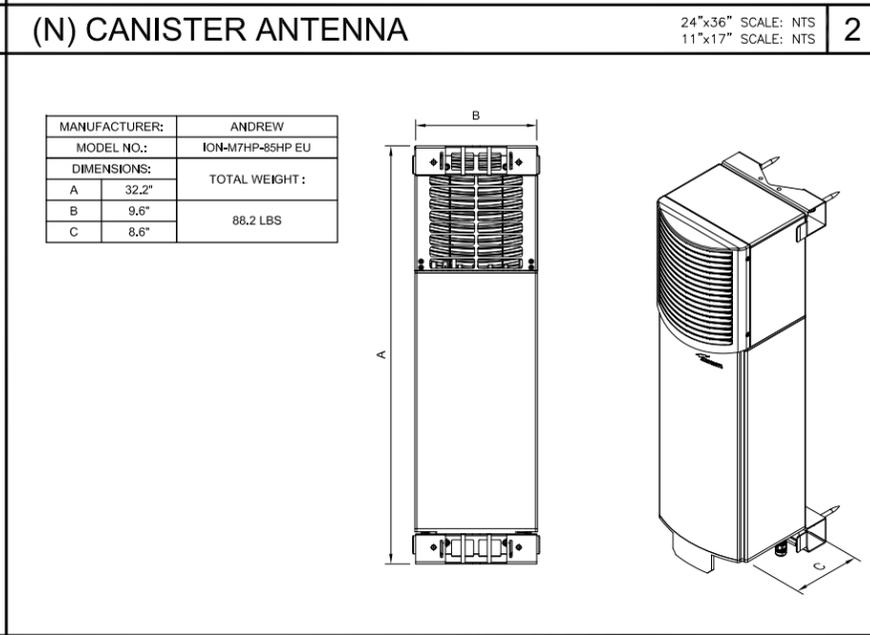
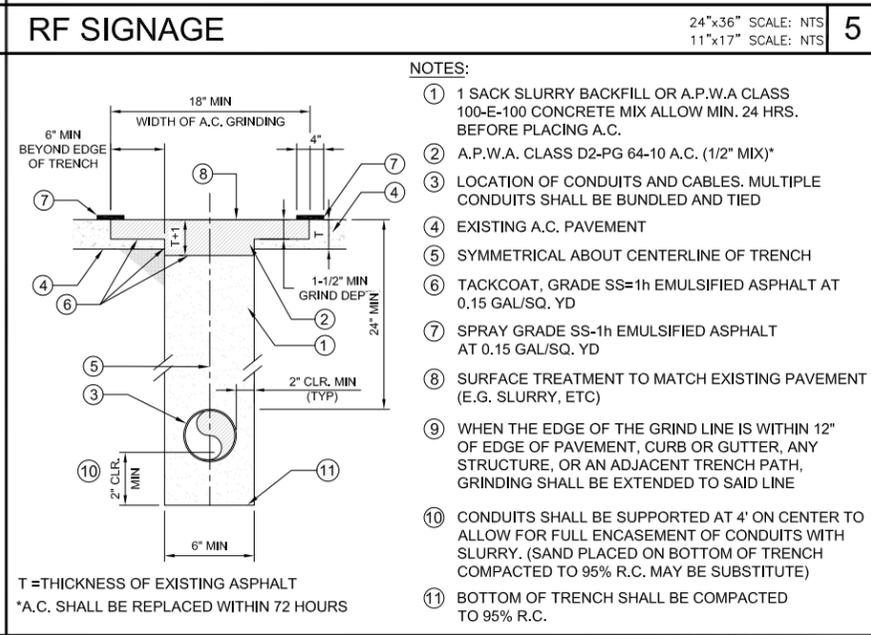
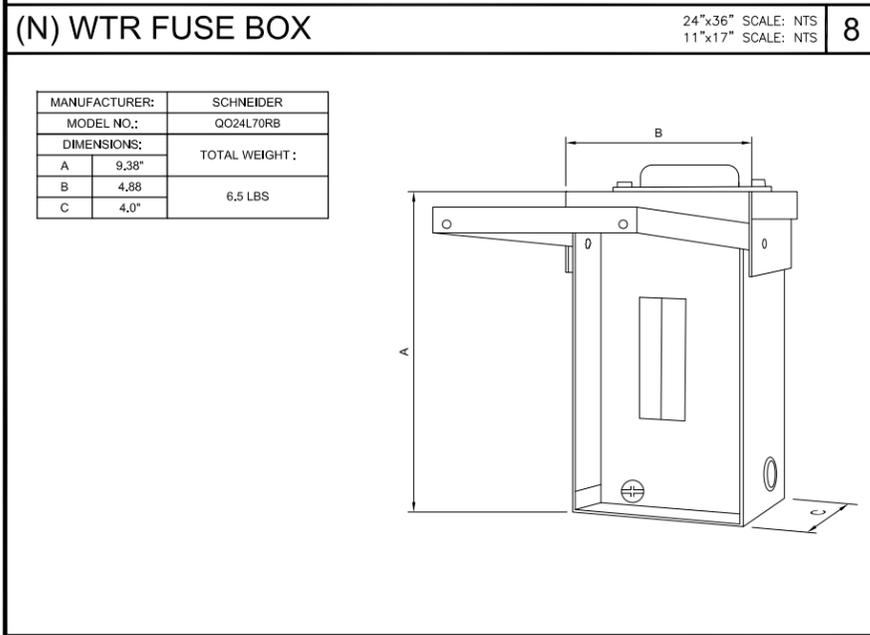
REGISTERED PROFESSIONAL ENGINEER
LOYAL A. WHARTON
C50547
CIVIL
STATE OF CALIFORNIA

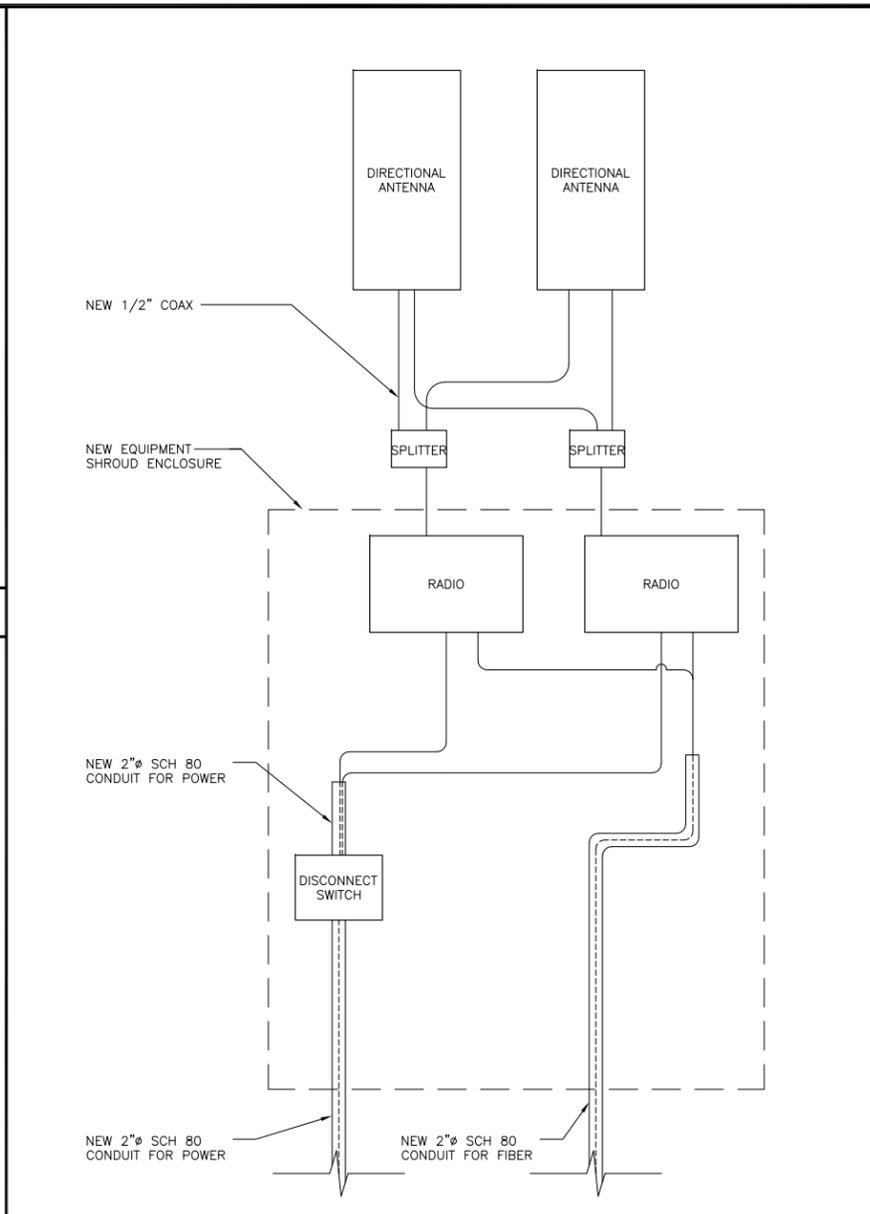
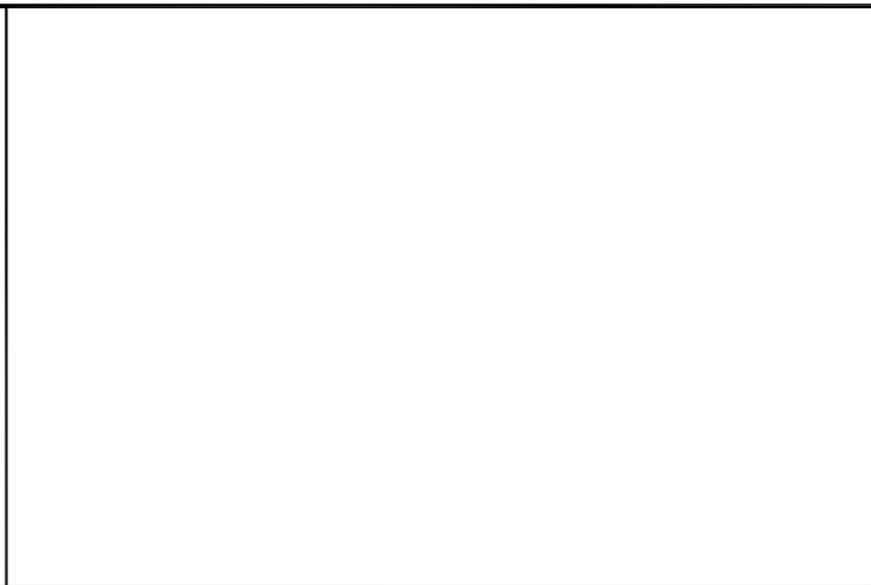
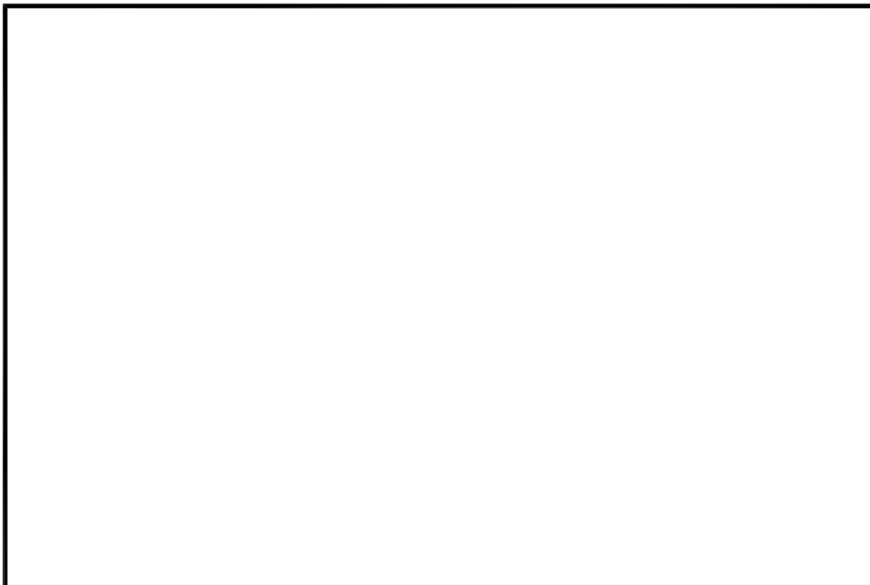
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CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
DETAILS

SHEET NUMBER
D-1





NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 6

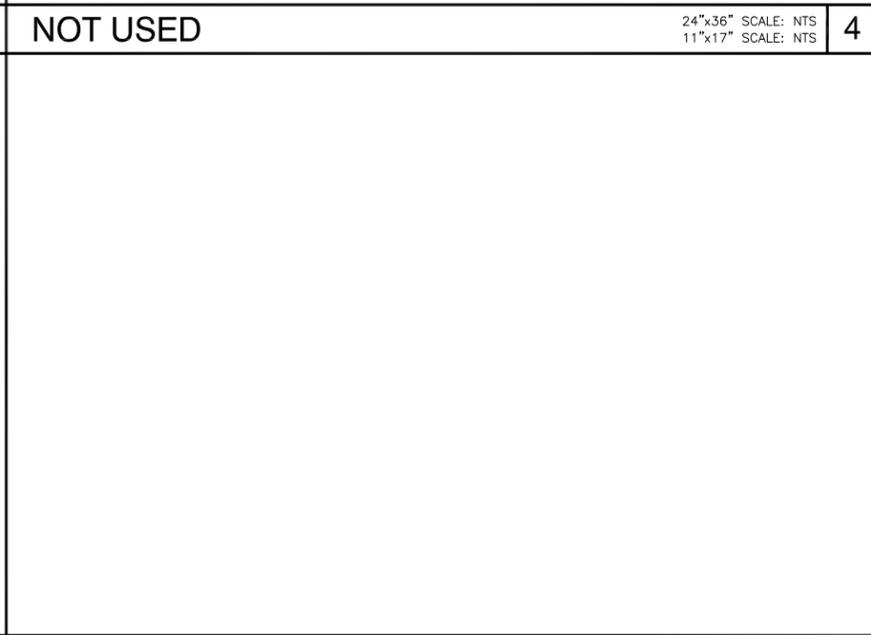
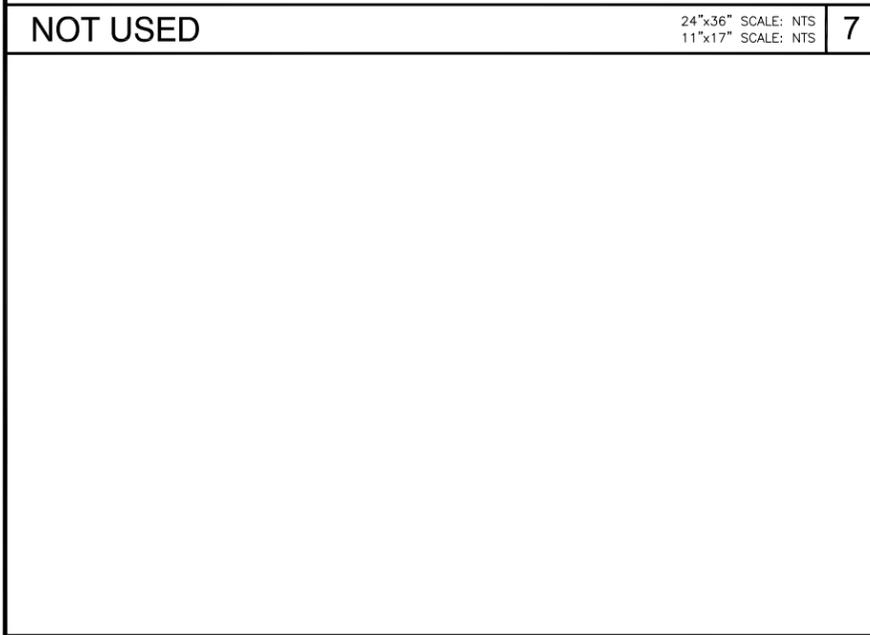
NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 3



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 7

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 4

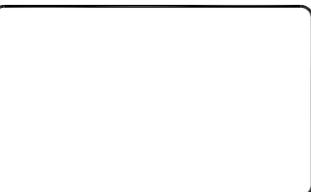
SINGLE LINE DIAGRAM 24"x36" SCALE: NTS 11"x17" SCALE: NTS 1



NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 8

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 5

NOT USED 24"x36" SCALE: NTS 11"x17" SCALE: NTS 2



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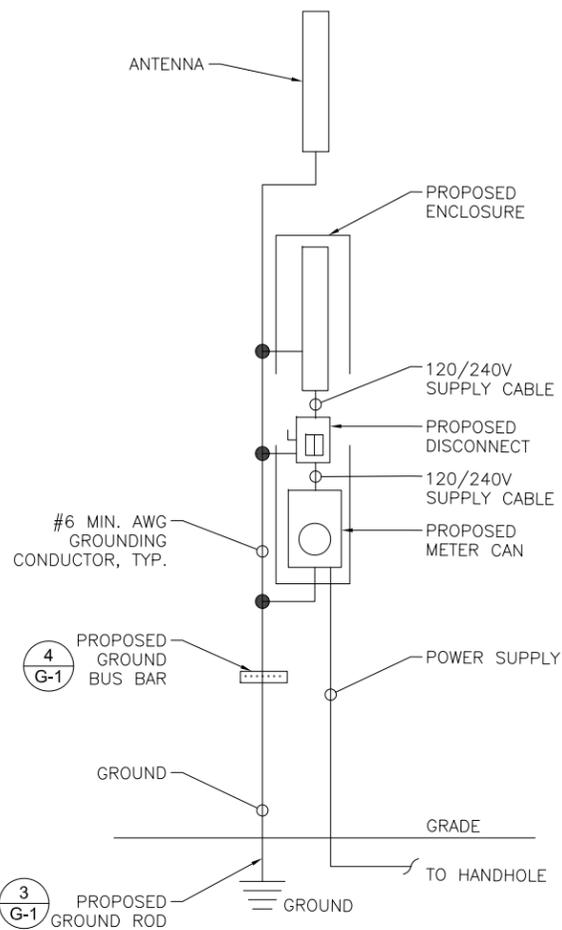


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CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
ELECTRICAL DETAILS

SHEET NUMBER
E-1



GROUNDING SCHEMATIC

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

7

CABLE GROUND KIT CONNECTION

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

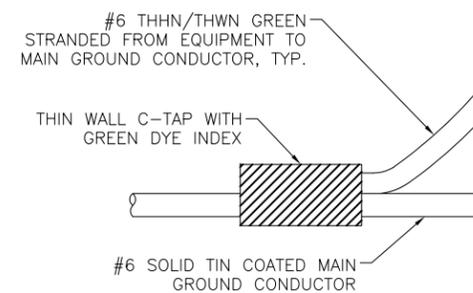
5

CADWELDS

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

2

NOTE:
CONTRACTOR TO SURROUND COMPLETED CONNECTION WITH HEAT-SHRINK TUBING TO ENSURE WEATHER PROOF CONNECTION



C-TAP CONNECTIONS

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

3

NOT USED

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

8

NOT USED

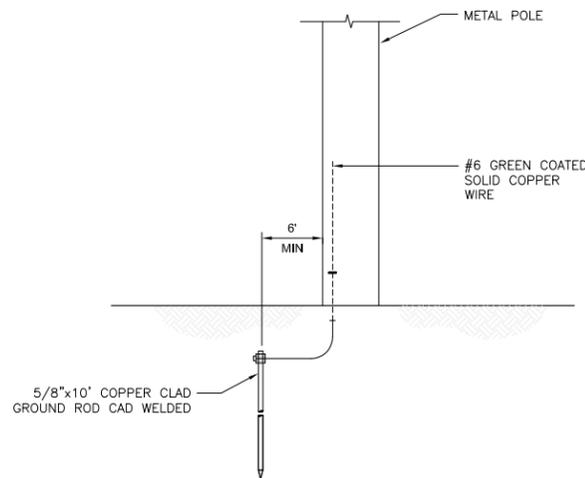
24"x36" SCALE: NTS
11"x17" SCALE: NTS

6

GROUNDING ROD

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

4

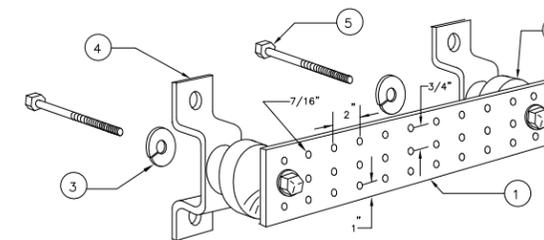


GROUND BUS BAR

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

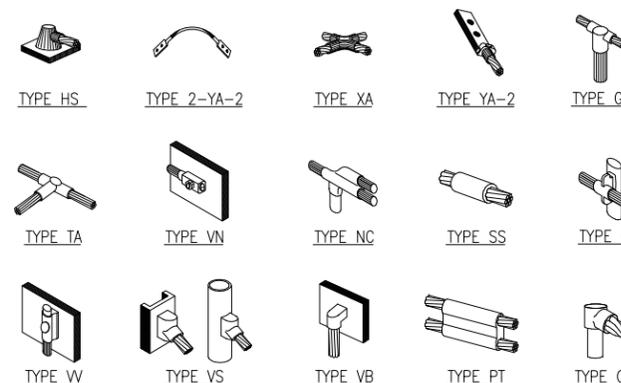
1

GROUNDING DETAILS



- LEGEND**
1. COPPER GROUND BAR, NEW TON INSTRUMENT CO. OR EQUIVALENT. HOLE CENTERS TO MATCH NEMA DOUBLE LUG CONFIGURATION.
 2. INSULATORS, NEW TON INSTRUMENT CO. CAT. NO. 3061-4 OR EQUIVALENT.
 3. 5/8" LOCK WASHERS, NEW TON INSTRUMENT CO. CAT. NO. 3015-8 OR EQUIVALENT.
 4. WALL MOUNTING BRACKET, NEW TON INSTRUMENT CO. CAT. NO. A-6056 OR EQUIVALENT.
 5. 5/8-11 x 1" H.H.C.S. BOLTS, NEW TON INSTRUMENT CO. CAT. NO. 3012-1 OR EQUIVALENT.

- NOTES:**
- 1) ALL MOUNTING HARDWARE CAN ALSO BE USED ON 6", 12", 18", ETC. GROUND BARS.
 - 2) ENTIRE ASSEMBLY AVAILABLE FROM NEWTON INSTRUMENT CO. CAT. NO. 2106060010.
 - 3) PROVIDE SECURITY HARDWARE TO PREVENT THEFT



NOTE:
ERICO EXOTHERMIC "MOLD TYPES" SHOWN HERE ARE EXAMPLES. CONSULT WITH PROJECT MANAGER FOR SPECIFIC MOLDS TO BE USED FOR THIS PROJECT.



200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

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ASG31M2
CROWN CASTLE SITE ID: 242727
CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
GROUNDING DETAILS

SHEET NUMBER
G-1

GENERAL NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR PERFORMING WORK TO INSTALL AND MAINTAIN THE TRAFFIC CONTROL DEVICES AS SHOWN HEREIN, AS WELL AS ANY SUCH ADDITIONAL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED TO ENSURE THE SAFE MOVEMENT OF VEHICULAR AND PEDESTRIAN TRAFFIC THROUGH OR AROUND THE CLOSURE AREA AND PROVIDE THE MAXIMUM PROTECTION AND SAFETY TO WORKERS.
3. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN THEIR PROPER POSITION AT ALL TIMES AND SHALL BE REPAIRED, REPLACED, OR CLEANED AS NECESSARY TO PRESERVE THEIR APPEARANCE AND CONTINUITY.
4. ANY REVISIONS TO THE DRAWINGS SHALL BE APPROVED IN WRITING BY THE CITY OF RANCHO PALOS VERDES PUBLIC WORKS DEPARTMENT DIRECTOR, OR HIS AUTHORIZED REPRESENTATIVE.
5. THE CITY OF RANCHO PALOS VERDES PUBLIC WORKS DEPARTMENT RESERVES THE RIGHT TO OBSERVE THE TRAFFIC CONTROL OPERATIONS AND TO MAKE ANY NECESSARY CHANGES. ANY DIRECTED CHANGES SHALL SUPERSEDE THESE PLANS AND SHALL BE IMPLEMENTED AT THE SOLE EXPENSE OF THE CONTRACTOR.
6. THE CONTRACTOR SHALL REMOVE TEMPORARY DELINEATION, SIGNAGE, AND OTHER DEVICES WHEN NO LONGER REQUIRED, AND SHALL RESTORE AREAS TO ORIGINAL CONDITIONS.
7. THE CONTRACTOR SHALL COVER EXISTING SIGNS WHERE THEY CONFLICT WITH CONSTRUCTION DETOURS AND SIGNING.
8. WORKING HOURS SHALL BE FROM 9AM TO 3PM, MONDAY THROUGH FRIDAY, UNLESS OTHERWISE APPROVED BY THE CITY. WORK IS NOT PERMITTED ON WEEKENDS OR CITY HOLIDAYS WITHOUT PRIOR WRITTEN CONSENT FROM THE CITY.
9. THE CONTRACTOR SHALL NOTIFY THE CITY OF RANCHO PALOS VERDES PUBLIC WORKS DEPARTMENT 48 HOURS IN ADVANCE OF BEGINNING WORK AT 310-544-5252.
10. IMPLEMENTATION OF TRAFFIC CONTROL SHALL BE PERFORMED BY A PROFESSIONAL TEMPORARY TRAFFIC CONTROL COMPANY AND FLAGGER CONTROL SHALL BE CONDUCTED IN ACCORDANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
11. TEMPORARY NO PARKING SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AT LEAST 72 HOURS IN ADVANCE OF TRAFFIC CONTROL IMPLEMENTATION. TEMPORARY NO PARKING SIGNS SHALL BE MADE OF WEATHER RESISTANT MATERIAL AND SHALL BE POSTED SO THAT THERE IS A MINIMUM DISTANCE OF 3' BETWEEN THE BOTTOM OF THE SIGN AND THE GROUND SURFACE.
12. THE CONTRACTOR SHALL PROVIDE FOR ACCESS TO ALL ADJACENT PROPERTIES DURING WORK HOURS. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN SUCH A MANNER AS TO CAUSE AS LITTLE INCONVENIENCE AS POSSIBLE TO ABUTTING PROPERTY OWNERS/OPERATORS.
13. THE CONTRACTOR SHALL PROVIDE FOR SAFE PEDESTRIAN ACCESS AT ALL TIMES.
14. THE CONTRACTOR SHALL PROVIDE FLAGMEN AS INDICATED ON THE PLAN, AT ALL TIMES TRAFFIC CONTROL IS IN PLACE, TO GIVE ADEQUATE WARNING TO TRAFFIC OR TO THE PUBLIC OF ANY UNEXPECTED CONDITIONS TO BE ENCOUNTERED.
15. ALL OPEN EXCAVATION OR CONSTRUCTION WORK SHALL BE A MINIMUM OF 5' FROM ANY OPERATING TRAFFIC LANES.
16. THE CONTRACTOR SHALL POST UNEVEN PAVEMENT SIGNS, AND RAMP PAVEMENT VERTICAL OFFSET OF 1 INCH OR MORE WITH ASPHALT FOR SMOOTH TRANSITION.
17. ALL SIGNS SHALL BE REFLECTORIZED AND STANDARD SIZE.
18. ALL FLASHING ARROW SIGNS SHALL BE SOLAR-POWERED.
19. 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.
20. THE CONTRACTOR SHALL MAINTAIN, ON A CONTINUOUS BASIS, ALL SIGNS, DELINEATORS, BARRICADES, ETC., TO ENSURE PROPER FLOW AND SAFETY OF TRAFFIC DURING CONSTRUCTION.
21. THE CONTRACTOR SHALL HAVE ALL SIGNS, DELINEATORS, BARRICADES, ETC., PROPERLY INSTALLED PRIOR TO COMMENCING CONSTRUCTION.
22. REMOVE OR TURN OFF SIGNS DURING NON-WORK HOURS.
23. METROPOLITAN TRANSPORTATION AUTHORITY (MTA) AND PALOS VERDES PENINSULA TRANSIT AUTHORITY (PVPTA) BUS STOPS IMPACTED. CONTRACTOR SHALL NOTIFY MTA AT (213) 922-4632 AND PVPTA AT (310) 544-7108 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION AND MUST BE ACKNOWLEDGED BY MTA AND PVPTA DISPATCH.
24. WHEN WORK REQUIRES THE USE OF STEEL PLATES, THEY SHALL BE OF THE NON-SKID TYPE, RECESSED TO BE FLUSH WITH THE PAVEMENT SURFACE, PINNED TO BE SECURED IN PLACE, AND INSTALLED IN ACCORDANCE WITH CALTRANS STANDARDS. ADVANCE WARNING SIGNS SHALL ALSO BE IMPLEMENTED FOR THE ENTIRE DURATION OF TIME THE STEEL PLATES ARE IN PLACE.
25. CONTRACTOR SHALL NOTIFY THE LOS ANGELES COUNTY FIRE DEPARTMENT (LACFD) AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK. THE CLOSEST FIRE STATION TO THE CONSTRUCTION SITE SHALL BE CONTACTED AT THE FOLLOWING LOCATIONS:
 - a. FIRE STATION 53 ON 6124 PALOS VERDES DR. SOUTH AT (310) 377-3333
 - b. FIRE STATION 106 ON 27413 INDIAN PEAK RD. AT (310) 377-9523
 - c. FIRE STATION 83 ON 83 MIRALESTE PLAZA AT (310) 831-4624

SOME AREAS MAY BE SERVED BY MORE THAN ONE FIRE STATION. IT IS THE PERMIT APPLICANT'S RESPONSIBILITY TO NOTIFY LACFD WHEN A FULL STREET CLOSURE OCCURS.
26. IT IS THE APPLICANT'S RESPONSIBILITY TO NOTIFY THE FOLLOWING EMERGENCY SERVICES AT LEAST 72 HOURS IN ADVANCE OF STARTING WORK WHEN A FULL STREET CLOSURE OCCURS:
 - A. MC CORMICK AMBULANCE: DPerez@mccormickambulance.com & MJones@mccormickambulance.com
 - B. LOMITA SHERIFF DEPARTMENT ON 26123 NARBONNE AVE, LOMITA CA AT (310)539-1661



200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618



1387 CALLE AVANZADO
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CROWN CASTLE SITE ID: 242727
CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
TRAFFIC CONTROL

SHEET NUMBER
TC-1



200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618



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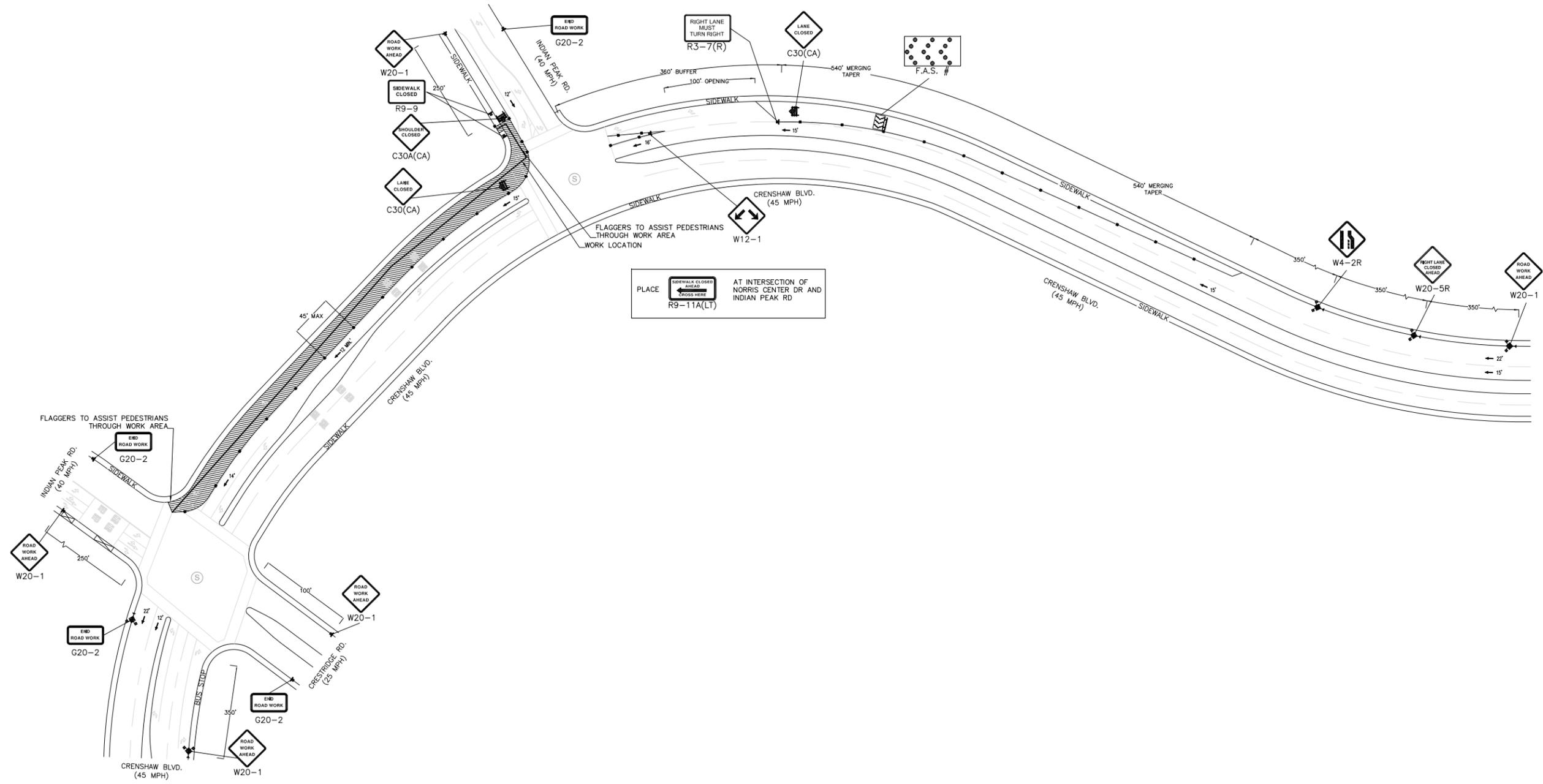
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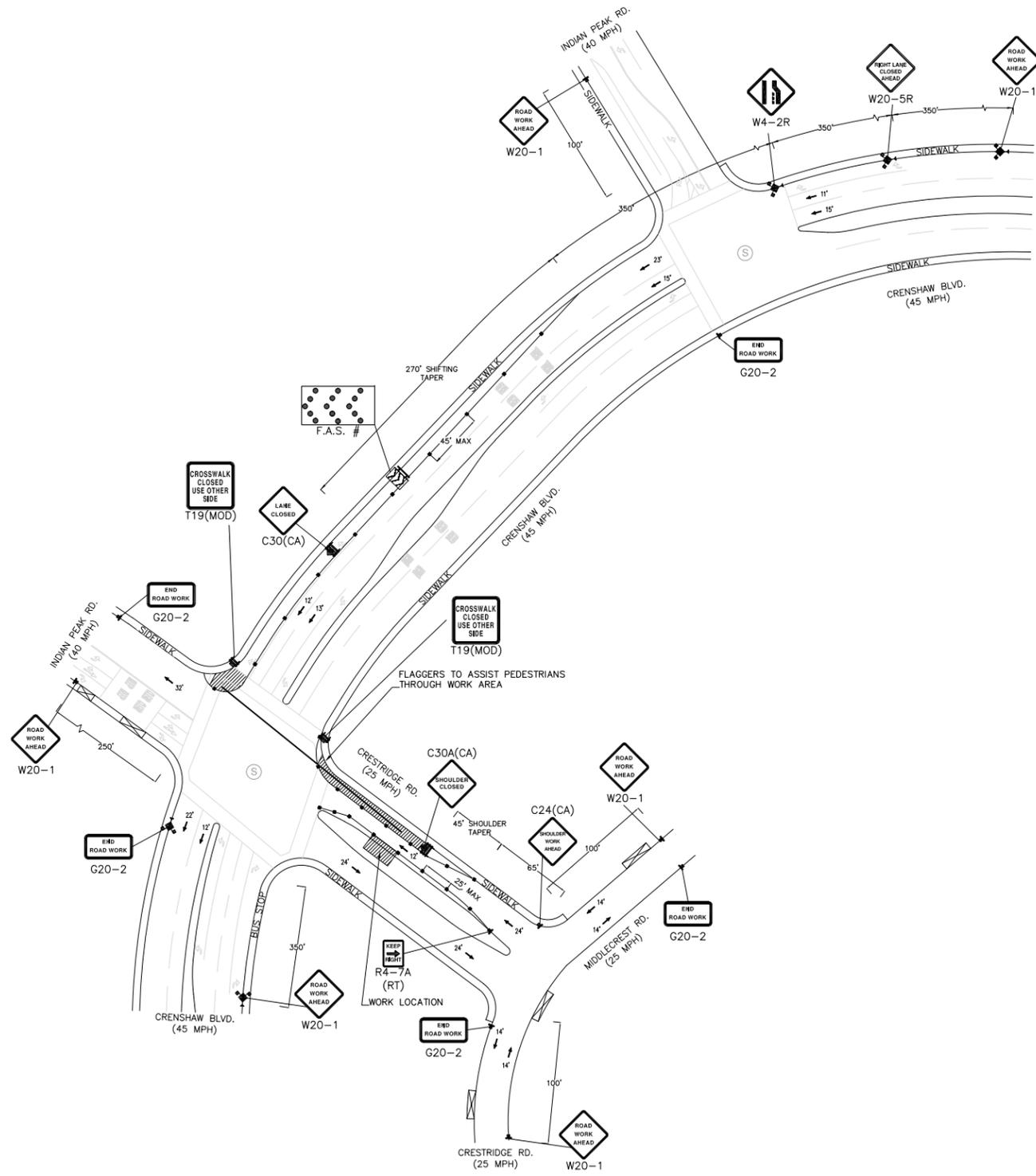
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DRAWN BY: BM
CHECKED BY: MM

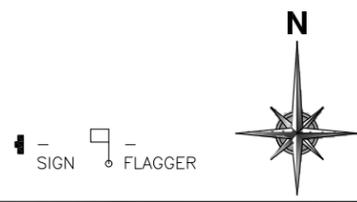
REV	DATE	DESCRIPTION
3	05/09/2019	100% CD'S REVISED
2	05/02/2019	100% CD'S REVISED - JX
1	04/04/2019	JX COMMENTS
0	03/06/2019	100% CD'S FOR SUBMITTAL
C	02/13/2019	90% CD'S REVISED
B	01/30/2019	90% CD'S FOR REVIEW
A	01/21/2019	90% CD'S FOR REVIEW

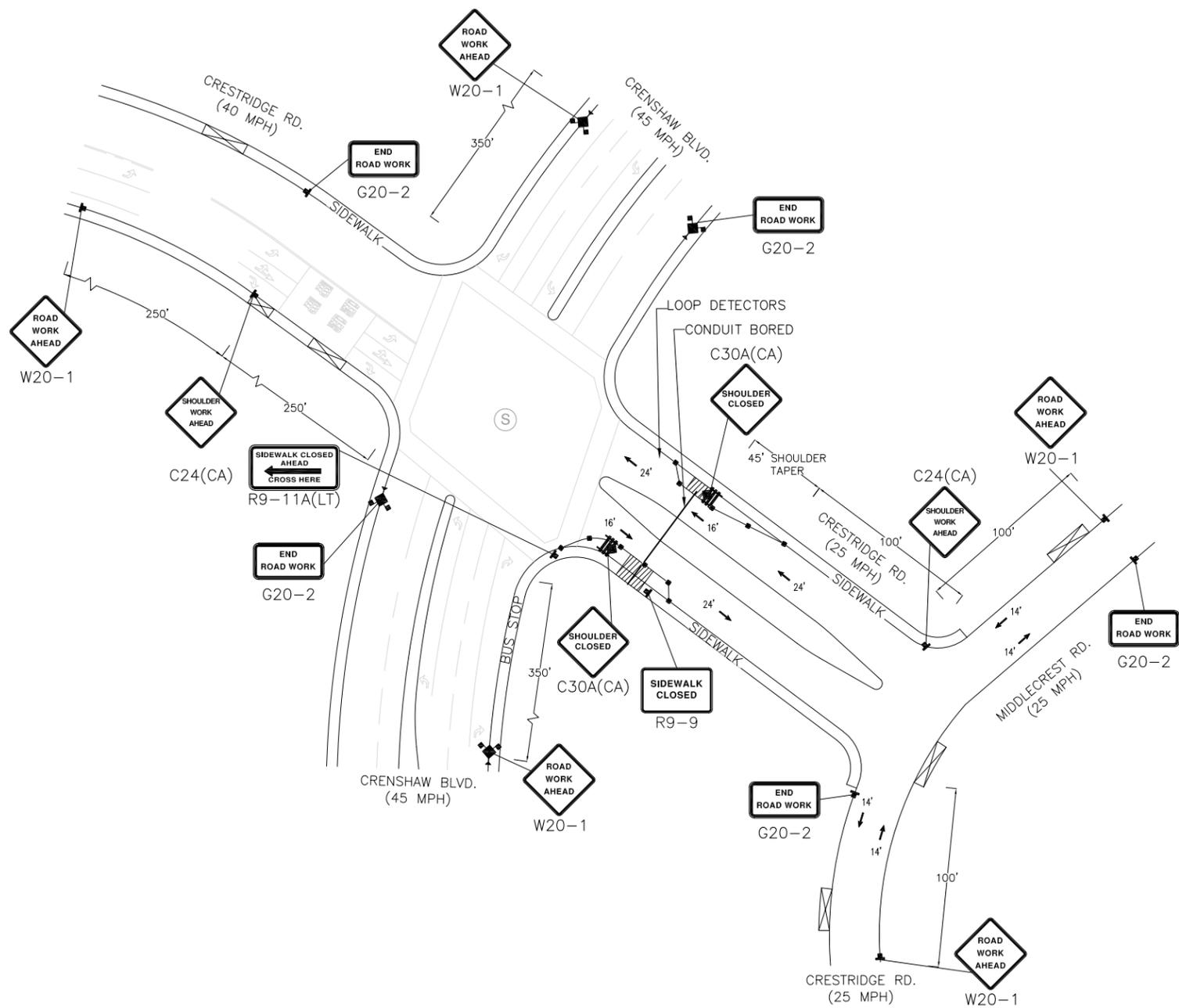
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ASG31M2
CROWN CASTLE SITE ID: 242727
CROWN CASTLE NG WEST
28602 CRESTRIDGE
RANCHO PALOS VERDES, CA 92074
(N) STEEL POLE

SHEET TITLE
TRAFFIC CONTROL

SHEET NUMBER
TC-3





200 SPECTRUM CENTER DRIVE, SUITE 1800
IRVINE, CA 92618



1387 CALLE AVANZADO
SAN CLEMENTE CA 92673 (949) 391-8824

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CHECKED BY: MM

REV	DATE	DESCRIPTION
3	05/09/2019	100% CD'S REVISED
2	05/02/2019	100% CD'S REVISED - JX
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CROWN CASTLE SITE ID: 242727
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(N) STEEL POLE

SHEET TITLE
TRAFFIC CONTROL

SHEET NUMBER
TC-4

