

— — — GROUND WIRE (6 AWG)
— — — POWER WIRE (12 AWG)
1/2" LIQUIDTIGHT FLEX

* VENTS CAN BE FIELD CONFIGURED TO REDUCE OVER ALL FOOT PRINT AND AID REDUCING THE IMPACT ON THE SURROUNDING ENVIRONMENT.

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/05/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	FXC 03/27/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:	
SITE NAME: MON03m1	
VERIZON MONTECITO-MON03m1	
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C2 ROW ADJACENT WEST SIDE OF SHEFFIELD DRIVE (ADJACENT TO 2165 BIRNAM WOOD DR.) SANTA BARBARA, CA 93108 LAT: 34.430908 LONG: -119.605144	

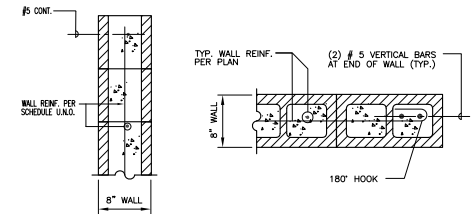
SHEET TITLE:

DETAILS

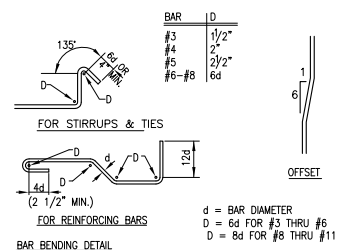
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DRAWN BY:
FC

SHEET NUMBER:



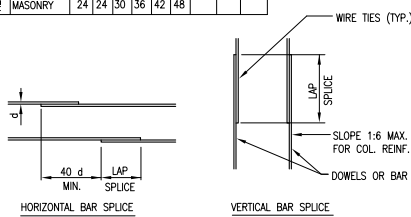
CMU DETAIL @ TOP / END



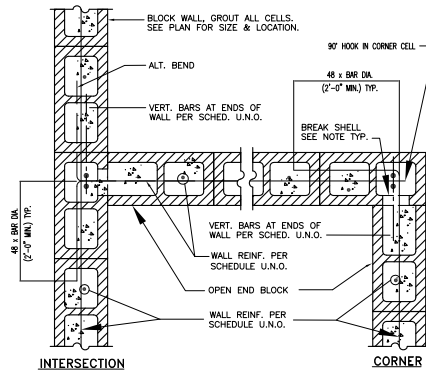
TYP. BAR BEND RADIUS

	CONC. F.C. P.S.I.	BAR SIZE									
		3	4	5	6	7	8	9	10	11	
HORIZONTALLY PLACED REINFORCING	2000	24	24	36	50	69	91	115	145	178	
	3000	24	29	36	46	63	82	104	132	165	
	4000	24	29	36	43	54	71	90	115	141	
	MASONRY	24	24	30	36	42	48				

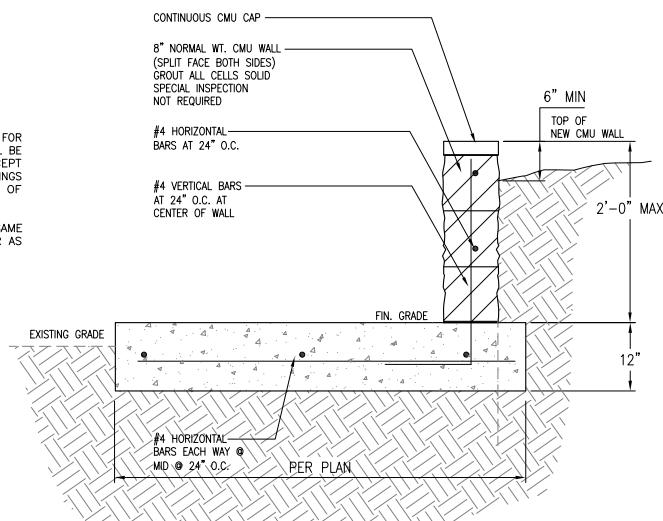
- NOTES :
- ALL VERTICAL REINFORCING FOR COL., PIERS & WALLS SHALL BE DOWELED AS SHOWN EXCEPT SPECIFIC DETAILS ON DRAWINGS SHALL GOVERN IN CASES OF CONFLICT.
 - DOWELS SHALL BE THE SAME GRADE, SIZE AND NUMBER AS VERTICAL REINFORCING.



TYP. BAR LAP SPLICE



CMU DETAIL @ CORNER / INTERSECTION



Power

AlphaCell™
GXL GelCell Batteries



NEW 195 GXL and 220 GXL:

- High-performance Silver Alloy for maximum life expectancy
- Longer runtime for demanding outdoor environments
- 100% runtime capacity out-of-box – No cycling required
- Maintenance-free threaded inserts — No periodic retorquing
- Available with 4 and 5 year full warranties
- Wide operating temperature range

Alpha's standby battery offering incorporates Gel for thermal dissipation to ensure optimal life performance for your particular Broadband, Traffic or Wi-fi application. AlphaCell Batteries provide the longest runtimes and the best longevity in today's demanding outdoor applications and are backed by Alpha's industry-leading, non-prorated hassle-free warranties.

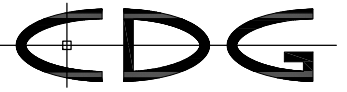
Alpha Technologies member of The Alpha Group™



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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:
MON03m1
VERIZON MONTECITO-MON03m1
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C2
ROW ADJACENT WEST SIDE OF SHEFFIELD DRIVE
(ADJACENT TO 2165 BIRNAM WOOD DR.)
SANTA BARBARA, CA 93108
LAT: 34.430908
LONG: -119.605144

SHEET TITLE:

BATTERY SPECS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/05/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	FXC 03/27/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



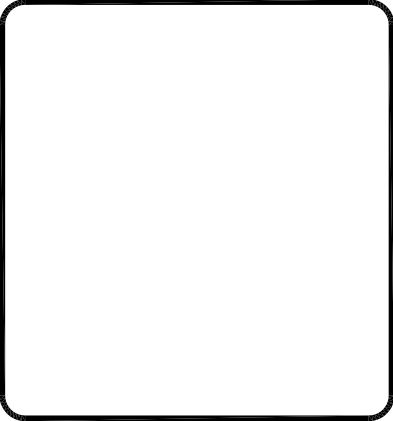
CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



CROWN CASTLE
NG WEST, INC.

STAMP:



SITE INFO:

SITE NAME:
MON03m1
VERIZON MONTECITO-MON03m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C2
ROW ADJACENT WEST SIDE OF SHEFFIELD DRIVE
(ADJACENT TO 2165 BIRNAM WOOD DR.)
SANTA BARBARA, CA 93108
LAT: 34.430908
LONG: -119.605144

SHEET TITLE:

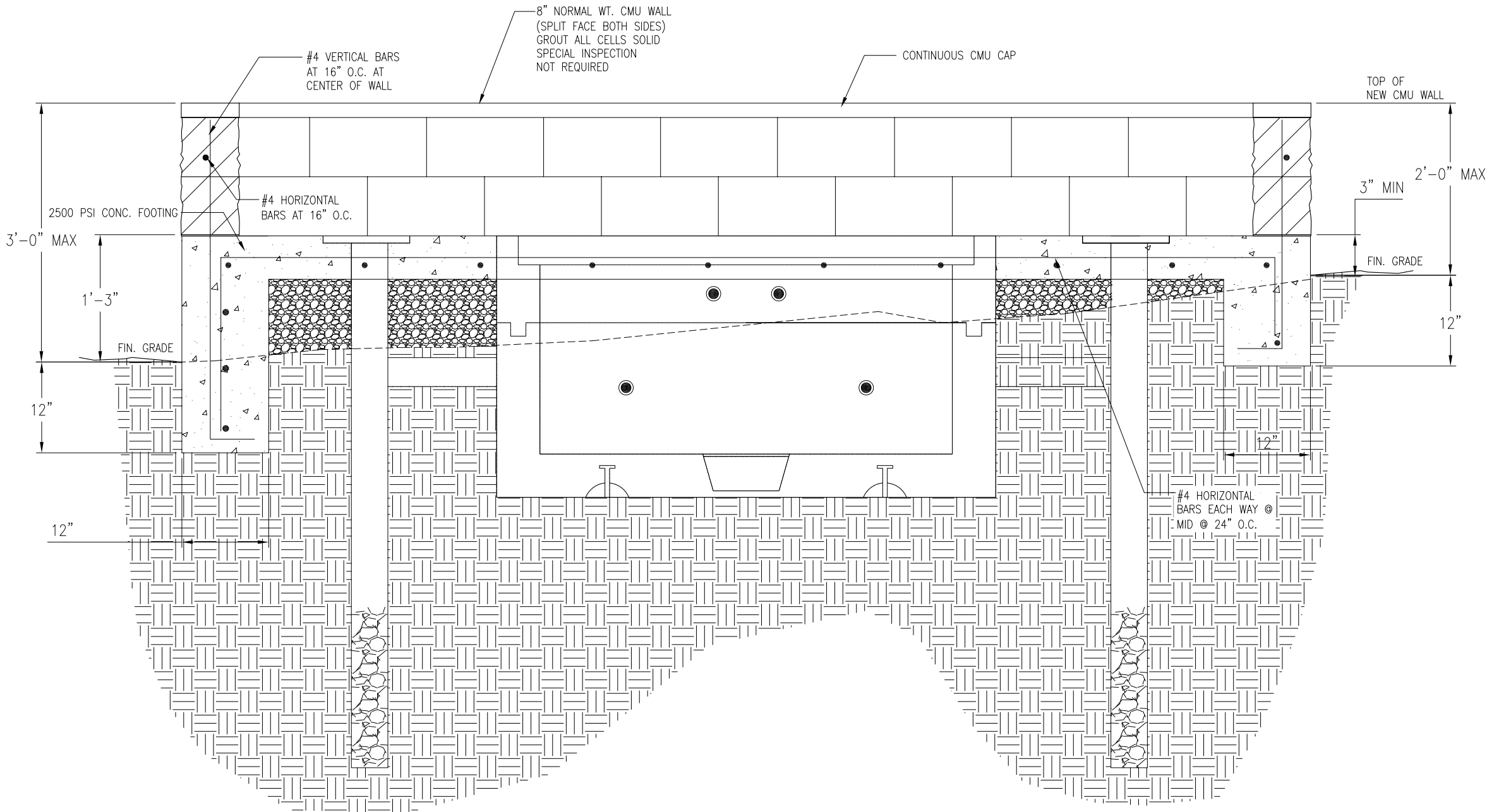
BATTERY SPECS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-4



GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD ON EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 9
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 9
SITE PLAN	A-1 - SHEET 3 OF 9
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 9
GRADING PLAN	A-3 - SHEET 5 OF 9
DETAILS	D-1 - SHEET 6 OF 9
DETAILS	D-2 - SHEET 7 OF 9
DETAILS	D-3 - SHEET 8 OF 9
DETAILS	D-4 - SHEET 9 OF 9

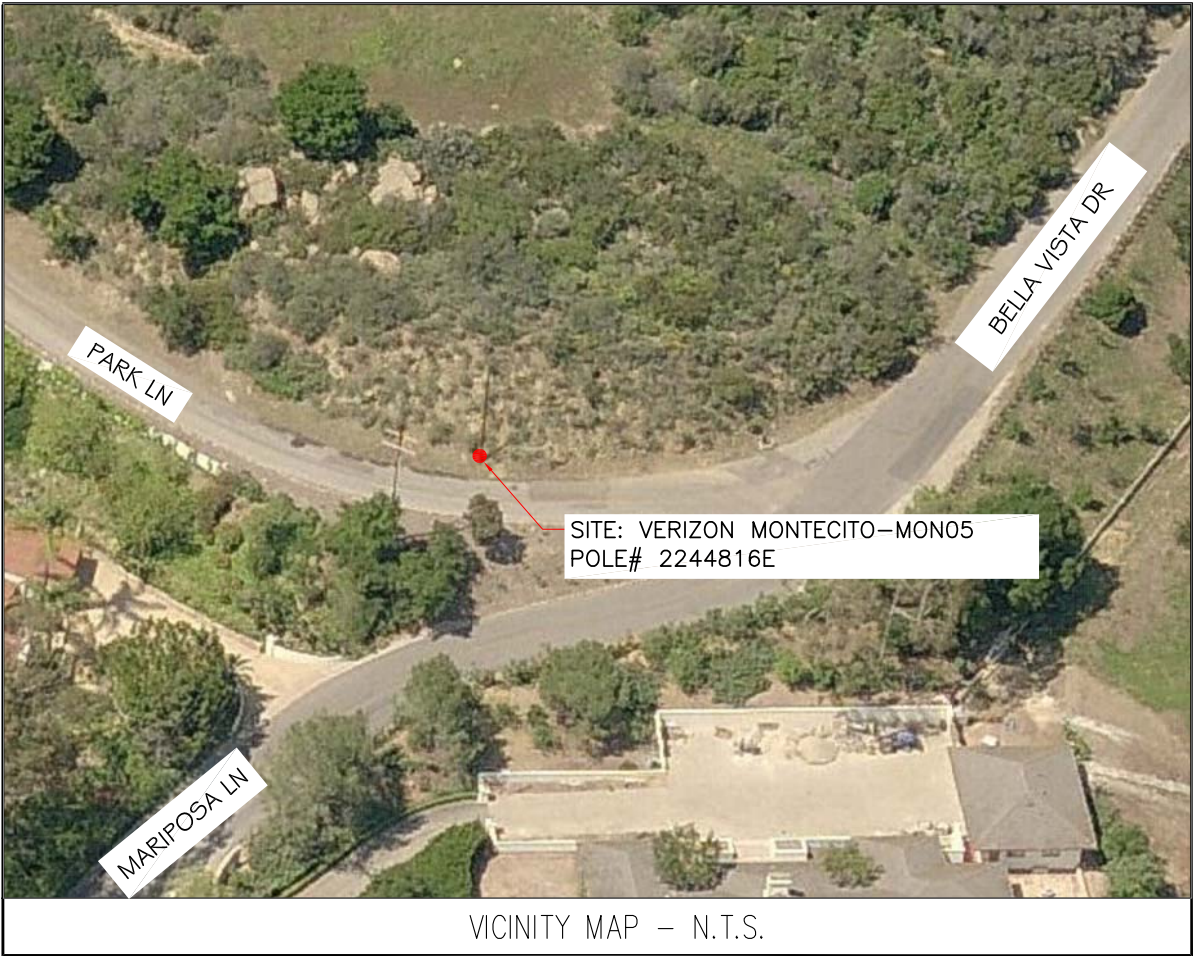
CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON05

R.O.W. SOUTH SIDE OF PARK LN

(ADJACENT TO 985 PARK LN)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.
- TRAFFIC CONTROL NOTES
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF PARK LN (ADJACENT TO 985 PARK LN) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC 2125 WRIGHT AVE, SUITE #C9 LA VERNE, CA 91750 CONTACT: HEIDI PAYNE PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC 26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630 CONTACT: FRANK CARTER (949) 310-8233 PHONE (949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 01/31/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 08/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

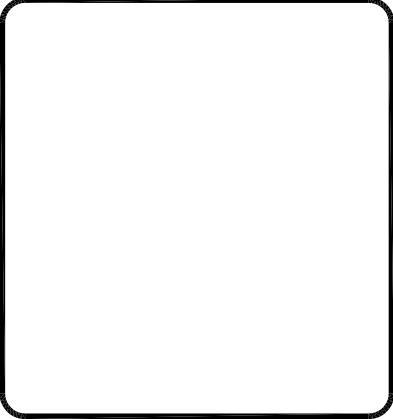
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON05 VERIZON MONTECITO-MON05

SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7 R.O.W. SOUTH SIDE OF PARK LN (ADJACENT TO 985 PARK LN) SANTA BARBARA, CA 93108 LAT: 34.44746° LONG: -119.60497°

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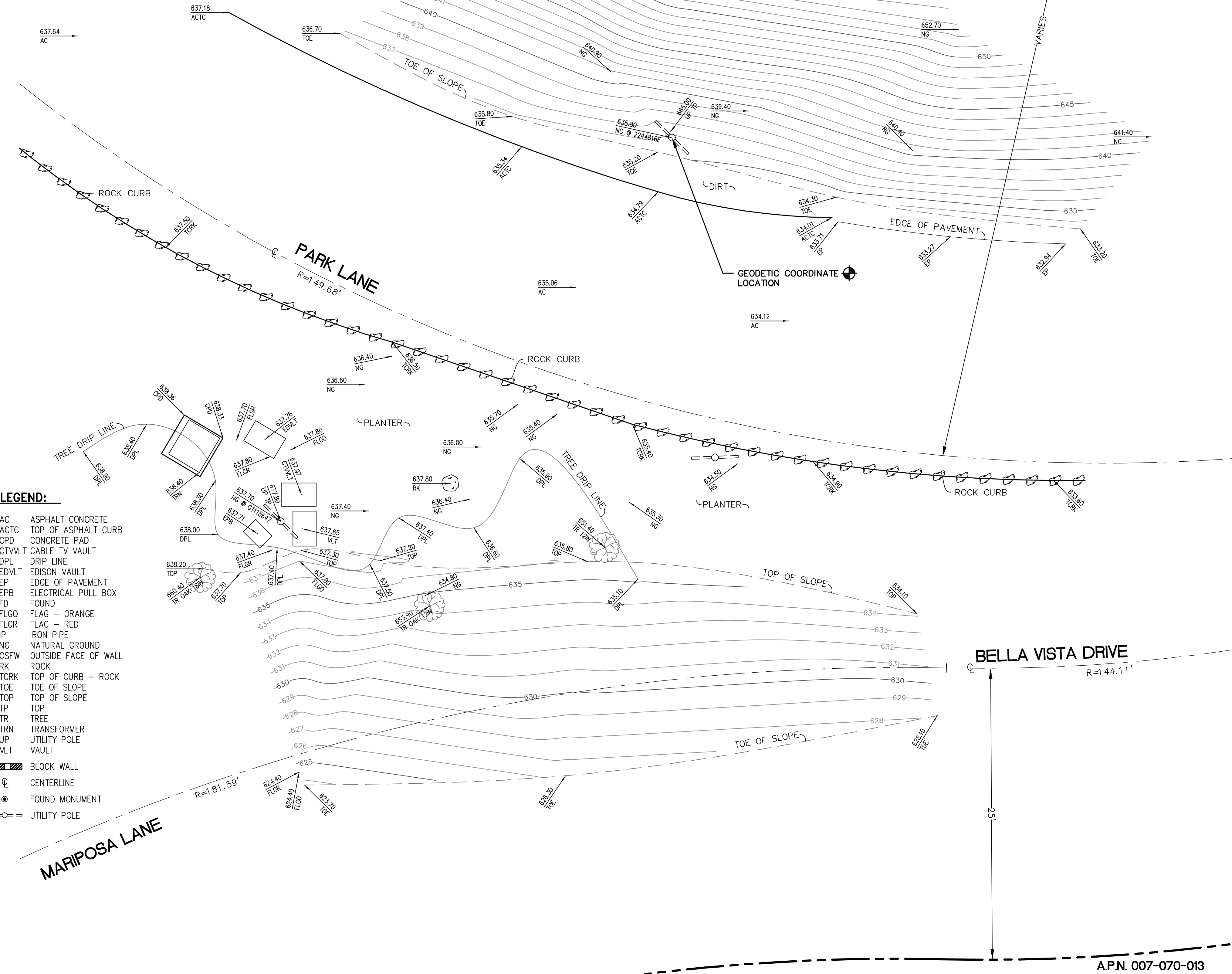
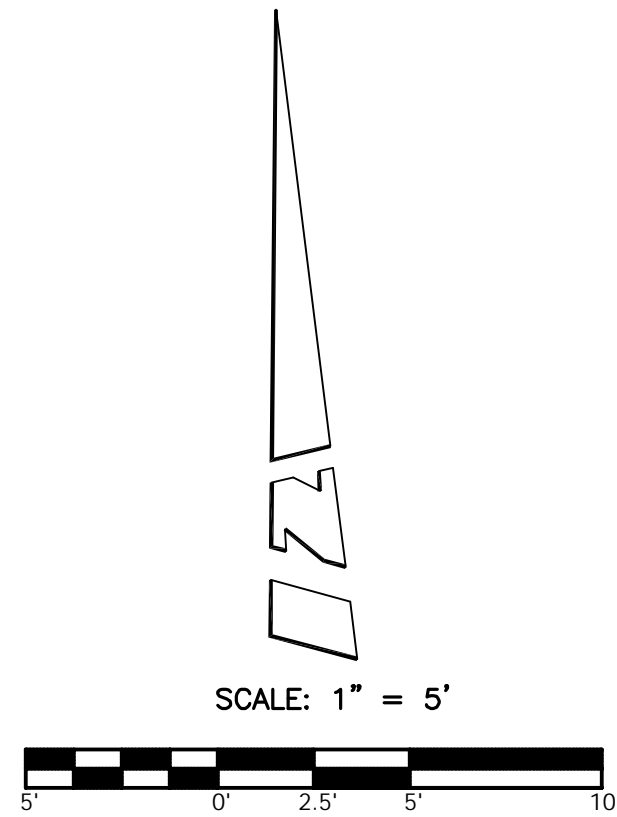
TITLE SHEET

DRAWING INFO:

DRAWN BY: FC

SHEET NUMBER:

T-1



A.P.N. 007-020-044
(985 PARK LN)

COORDINATES:

LATITUDE 34°26'51.12" N
LONGITUDE 119°36'18.10" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

ESTABLISHED BY G.P.S. OBSERVATIONS AND PROCESSED TO CALIFORNIA ZONE 5, NORTH AMERICAN DATUM OF 1983.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 500"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 500" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 502.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 18, 2013

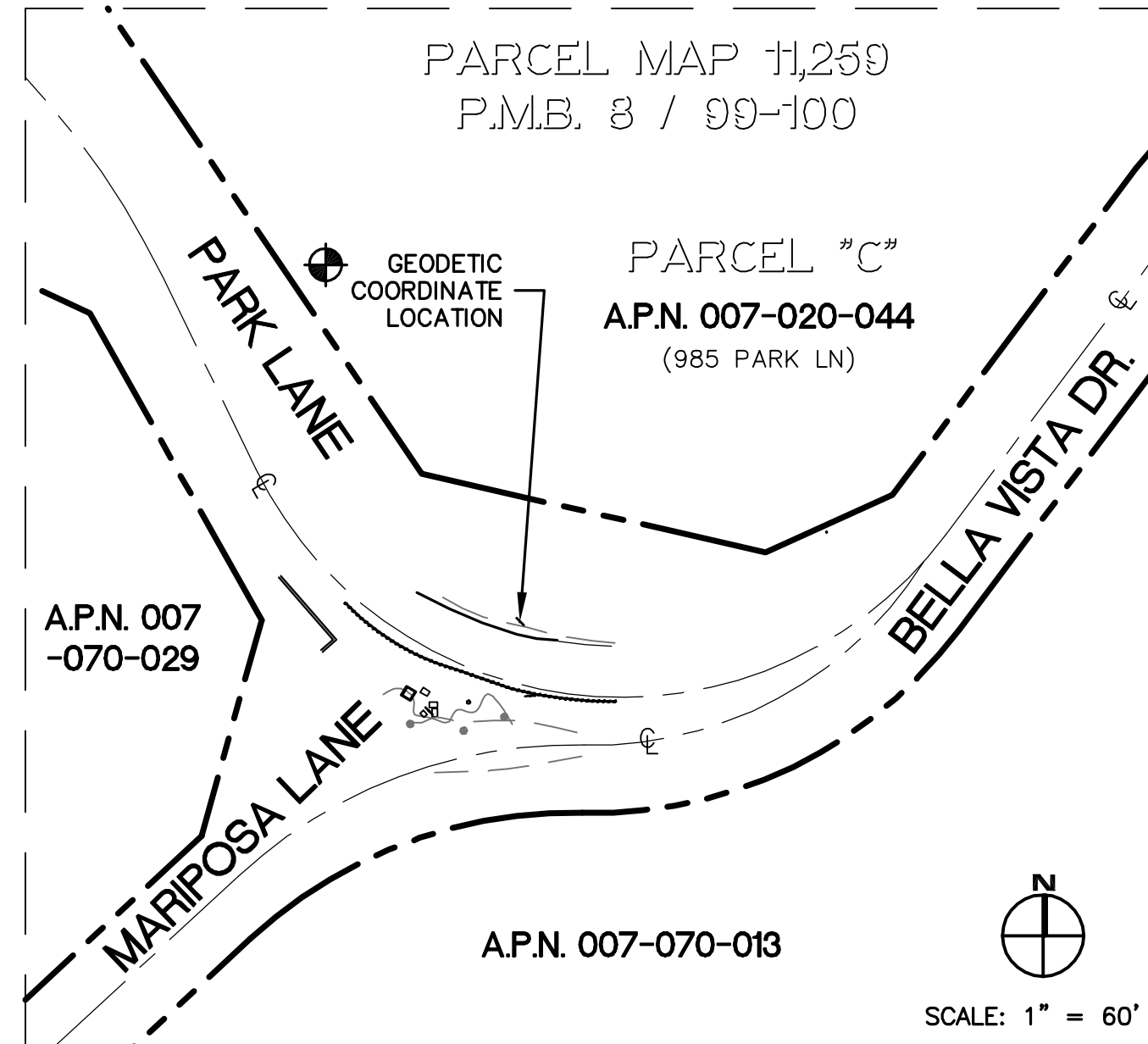
SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

SITE OVERVIEW



REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/26/13 MDL/JA	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



JN. 706.220

STAMP:



SITE INFO:

SITE NAME:
MON05 VERIZON MONTECITO-MON05
SITE ADDRESS:
R.O.W. NORTH SIDE OF PARK LN (ADJACENT TO 985 PARK LN) SANTA BARBARA, CA 93108

SHEET TITLE:

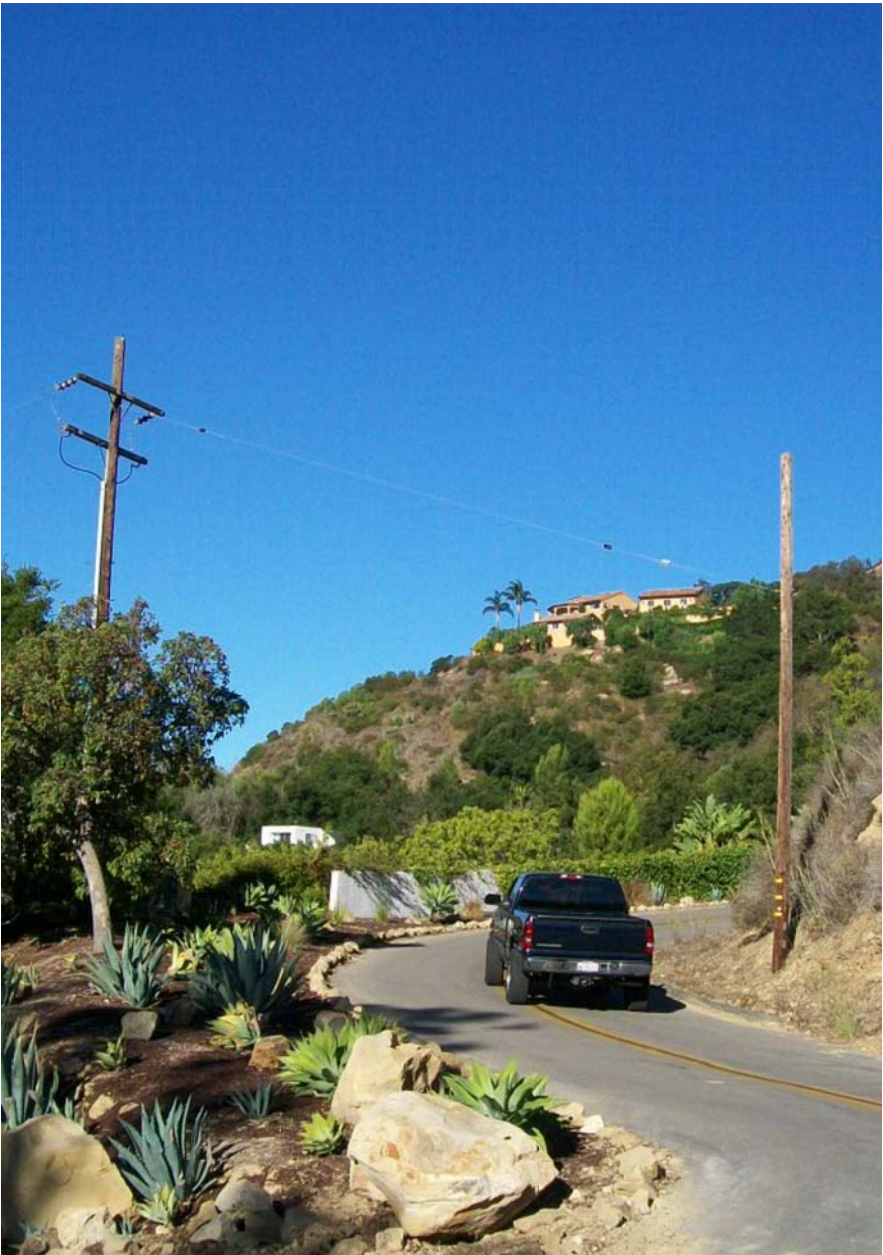
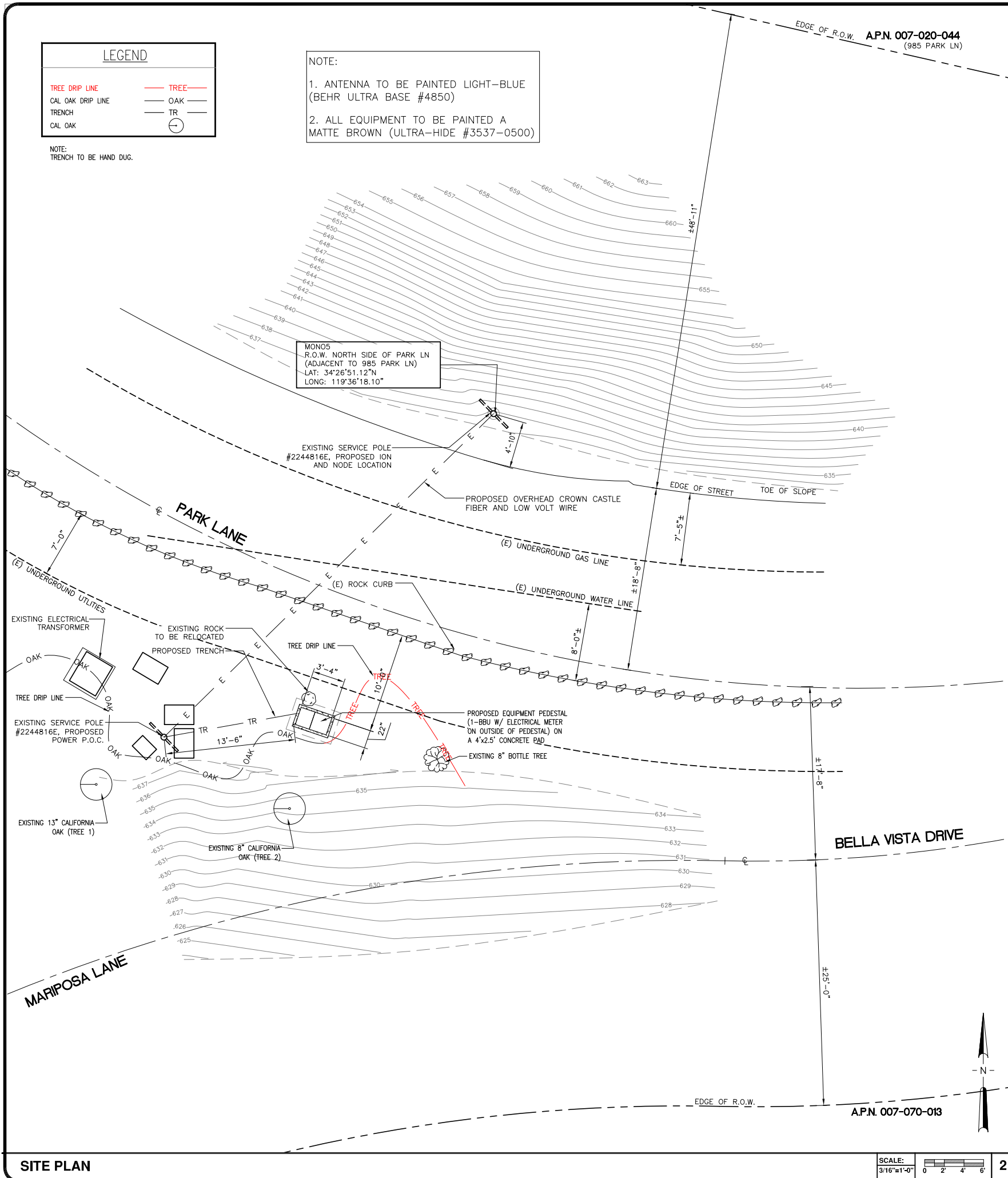
TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON05	MDL	07/26/13

SHEET NUMBER:

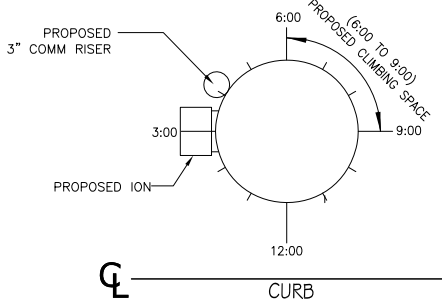
1 OF 1	C-1
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EXISTING PHOTO

SCALE: N.T.S. 3

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
1-3" CROWN CASTLE RISER @ 4:00



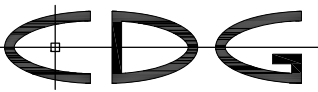
RISER PROFILE

SCALE: N.T.S. 2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 01/31/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 08/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



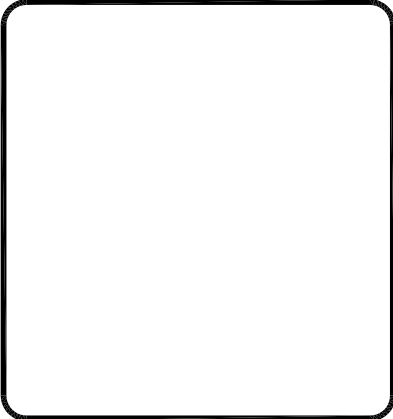
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON05
VERIZON MONTECITO-MON05

SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF PARK LN
(ADJACENT TO 985 PARK LN)
SANTA BARBARA, CA 93108
LAT: 34.44746°
LONG: -119.60497°

SHEET TITLE:

SITE PLAN, EXISTING PHOTO
AND RISER PROFILE

DRAWING INFO:

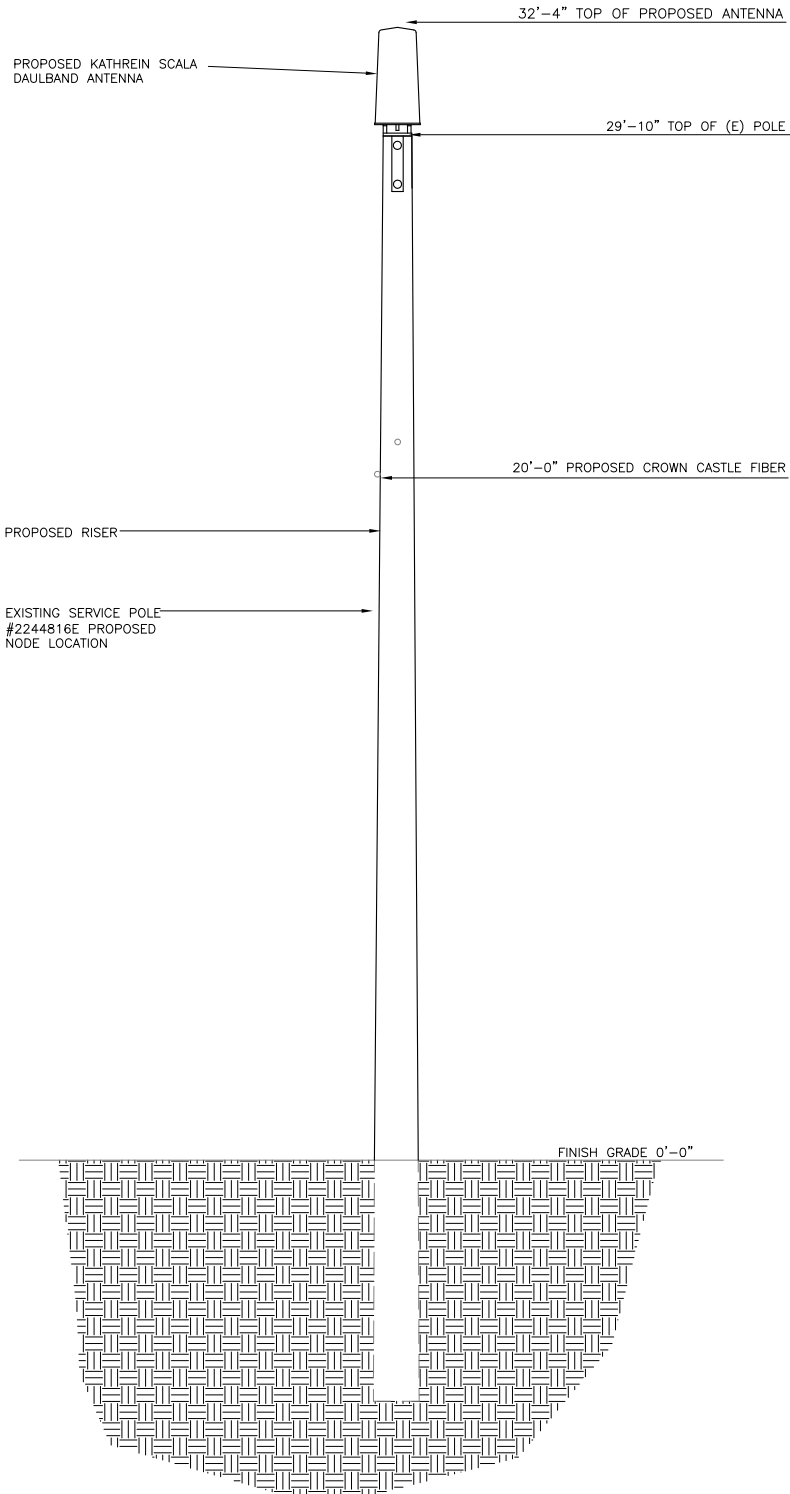
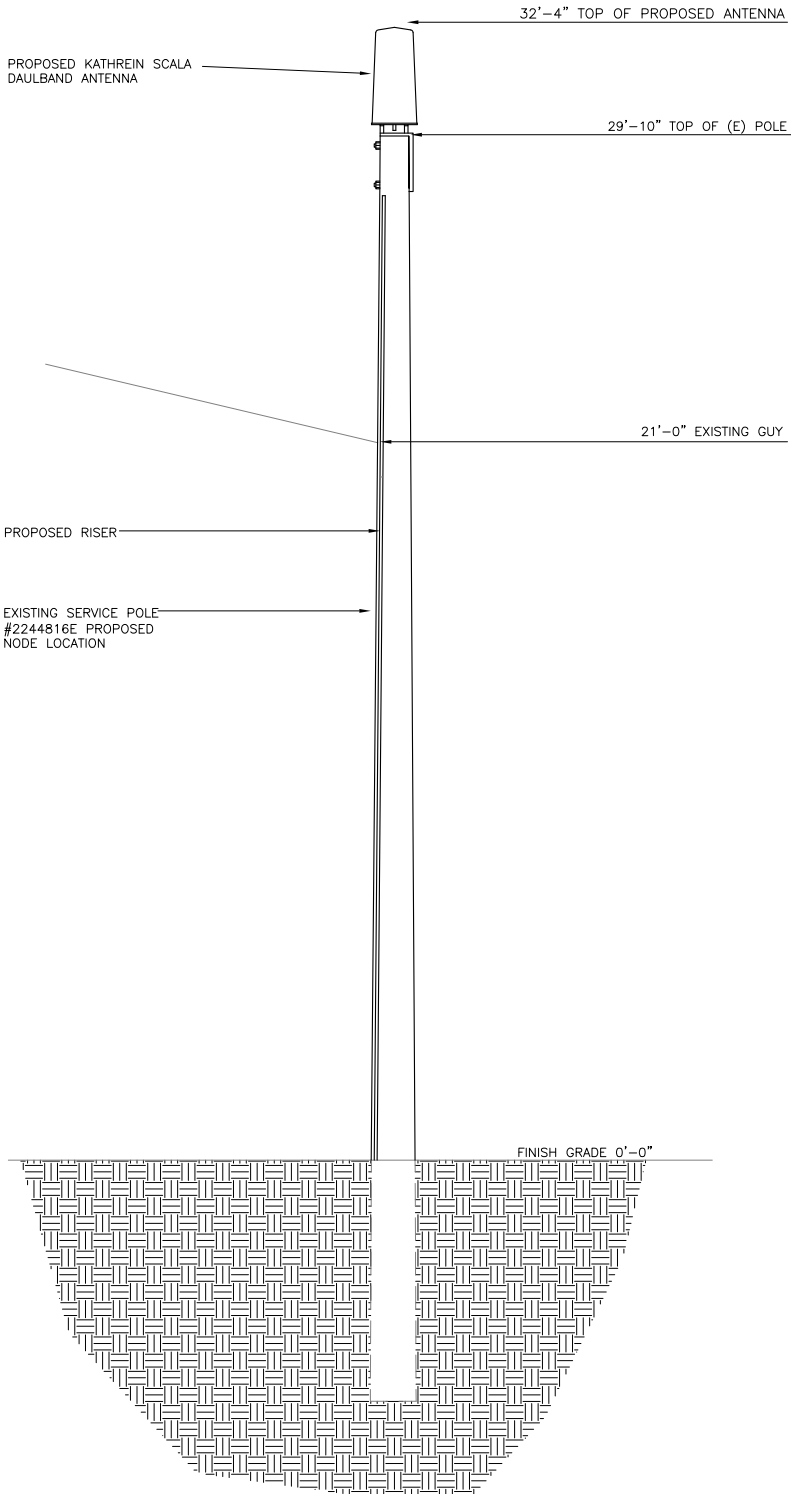
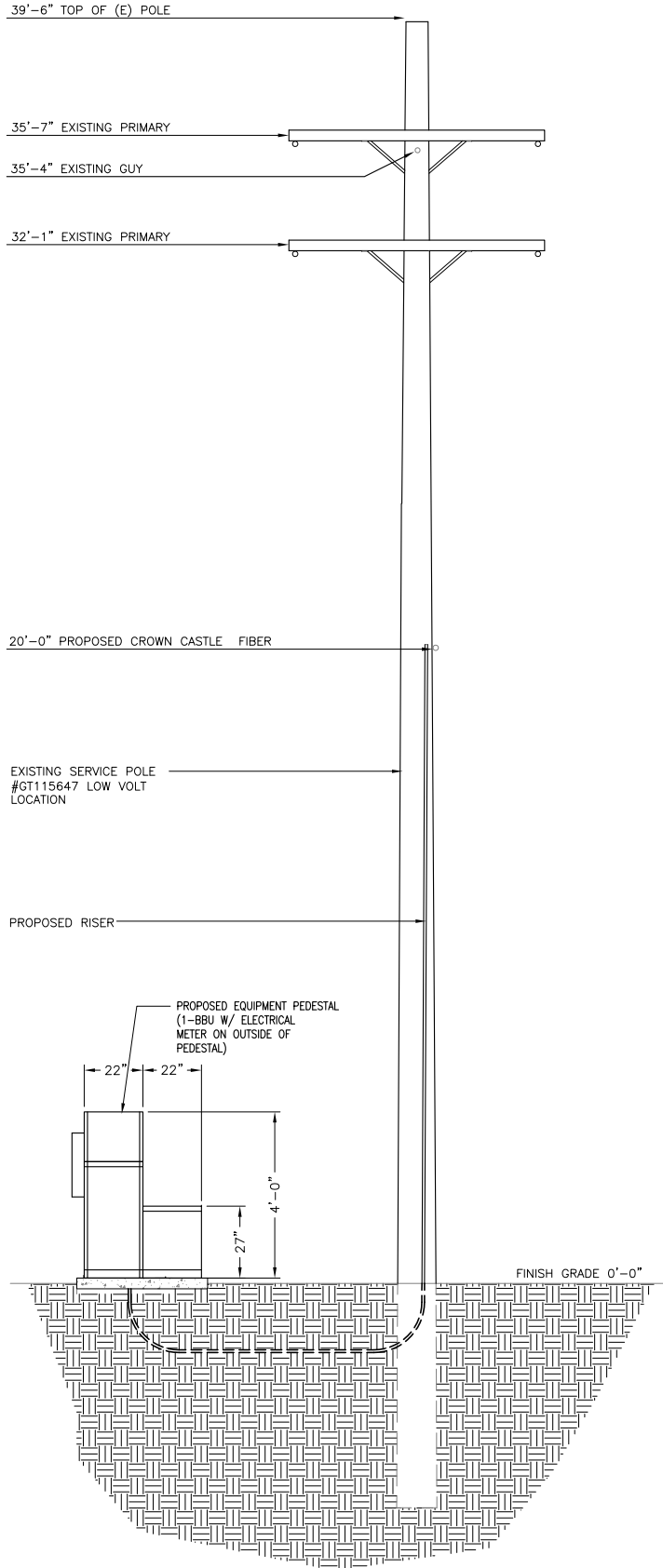
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FC

SHEET NUMBER:

A-1

SITE PLAN

SCALE: 3/16"=1'-0" 2



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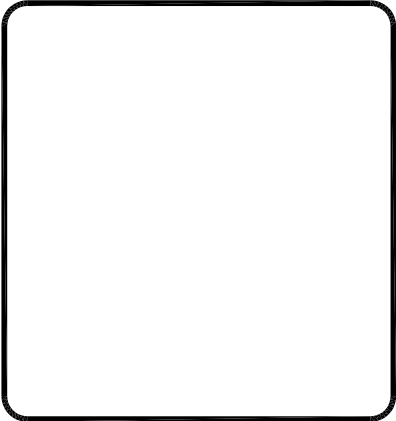
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

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VERIZON MONTECITO-MON05
SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF PARK LN
(ADJACENT TO 985 PARK LN)
SANTA BARBARA, CA 93108
LAT: 34.44746°
LONG: -119.60497°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

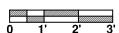
SHEET NUMBER:

A-2

PROPOSED LOW VOLT POLE

SCALE:

3/8"=1'-0"



1

PROPOSED ELEVATION LOOKING WEST (NODE)

SCALE:

3/8"=1'-0"



2

PROPOSED ELEVATION LOOKING SOUTH (NODE)

SCALE:

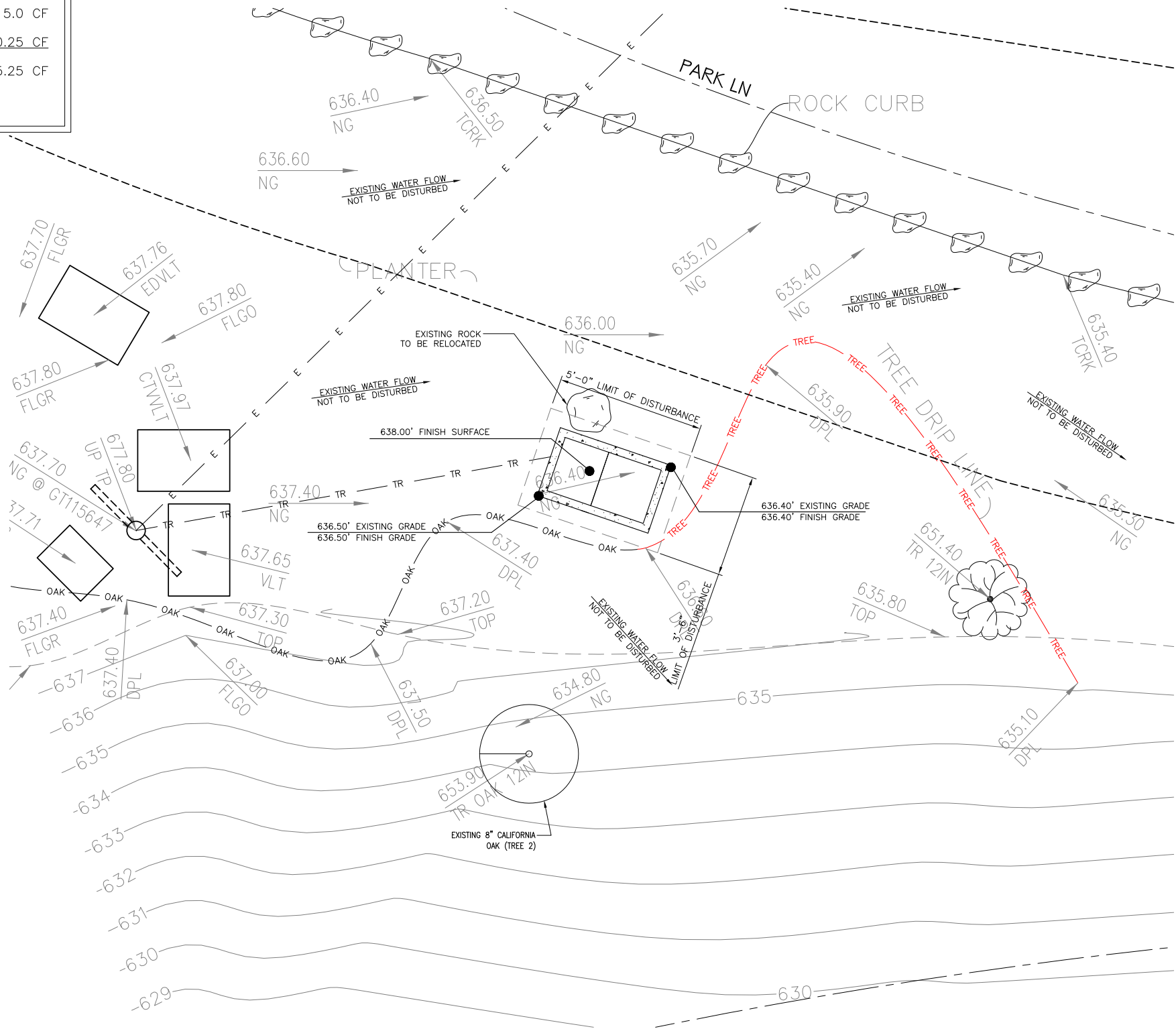
3/8"=1'-0"



3

GRADING CALCULATION			
CONCRETE PAD:	5.0	CF	
13.5'Lx3'Dx.5'W TRENCH:	20.25	CF	
TOTAL:	25.25	CF	

NOTE:
NO CUT AND FILL REQUIRED



LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊕

NOTE:
TRENCH TO BE HAND DUG.

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ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

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SITE NAME:
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VERIZON MONTECITO-MON05

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SANTA BARBARA, CA 93108
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LONG: -119.60497°

SHEET TITLE:

GRADING PLAN

DRAWING INFO:

DRAWN BY:
FC

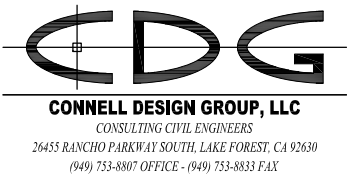
SHEET NUMBER:

A-3

REV:	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

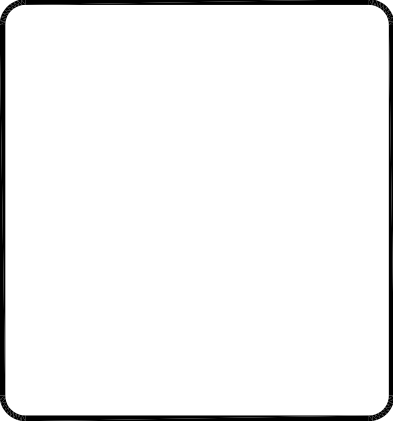
Civil Engineer



CLIENT:



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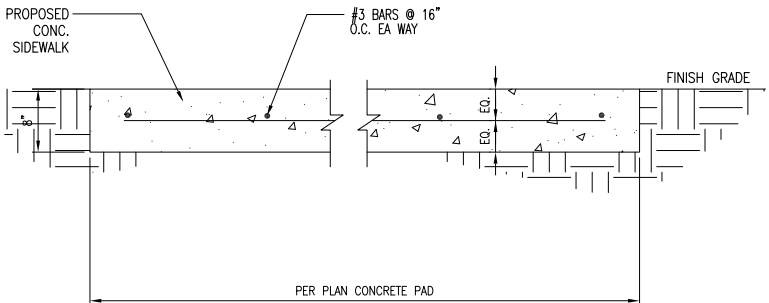
DETAILS

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FC

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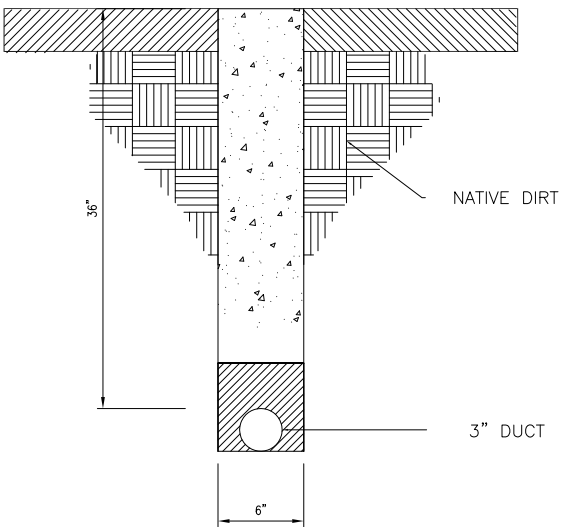
D-1



- > Compact enclosure design provides ideal fit for locations where aesthetics are important
- > Light-weight powder coated aluminum construction offers superior corrosion resistant properties
- > Large sun shield, reduces solar heat loading inside the cabinet
- > 180° stainless steel piano-hinged door (with two locking open positions) make installation and maintenance easy and convenient
- > Thermostat controlled filtered fan cooling and louvered vents ensure reliable operation in high temperature environments
- > Various mounting options (including pole mount) make this highly versatile in space constrained mobile broadband applications

Alpha's Multi Mount Outdoor Enclosure (MMOE) - Telecom, is a cost-effective and versatile enclosure ideal for space constrained locations. The Multi Mount can be pole, host, wall or pedestal mounted and can accommodate Alpha's PSM1190 and up to four ApraCell™ 5500L or 1962 ODL front terminal batteries. With a small form factor, the Multi Mount is the perfect choice for locations where confined space necessitates creative installation options.

Alpha Multi Mount Outdoor Enclosure - Telecom	
Consult your Alpha representative for P111 configurations	
Mechanical	Enclosure options
Dimensions: 687H x 559W x 45TD	Mounting: Pole, host, wall, or pedestal (please specify if pole used to concrete at time of order)
Frame: 27H x 22W x 18D	
Weight: 27.2kg (60lbs)	
Construction: High strength corrosion resistant aluminum	System Specifications
Finish: Powder coated white color	> System Options
Equipment space: EVA standing 19", 5PU space with one battery shelf	• Alpha AC distribution panel
Cable entrance: Bottom of enclosure: 1 x 2" diameter knock-out (21V trade size) 4 x 1.125" diameter knock-out (4V trade size)	• Alpha universal automatic transfer switch
Hinge type: Stainless steel piano hinge	• Alpha universal generator transfer switch
Door prep: Aluminum rnd. 2 locking open positions	• AlphaGuard battery balancer
Door latch: Ballbeats 219 compression lock with padlock bracket	• Battery heater mats
	• Transient voltage surge suppression device
HVAC Specifications	Agency Compliance
Cooling: Thermostat controlled advisory fan, 100 cfm or better. On at 49°F (120°F) Off at 52°F (59°F) Equipped with spinon baffles	Telcordia: GR-15 COME
	NEMA rating: 3R



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

UN-USED

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	
Uplink	698 to 716/776 to 787
Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	
Uplink	824 to 849
Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO

1900 MHz

Frequency range, MHz	
Uplink	1850 to 1915
Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB	
ICP3 optimized	+10 max.
Noise figure optimized	+6 max. 4.5 typical

Mechanical****

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

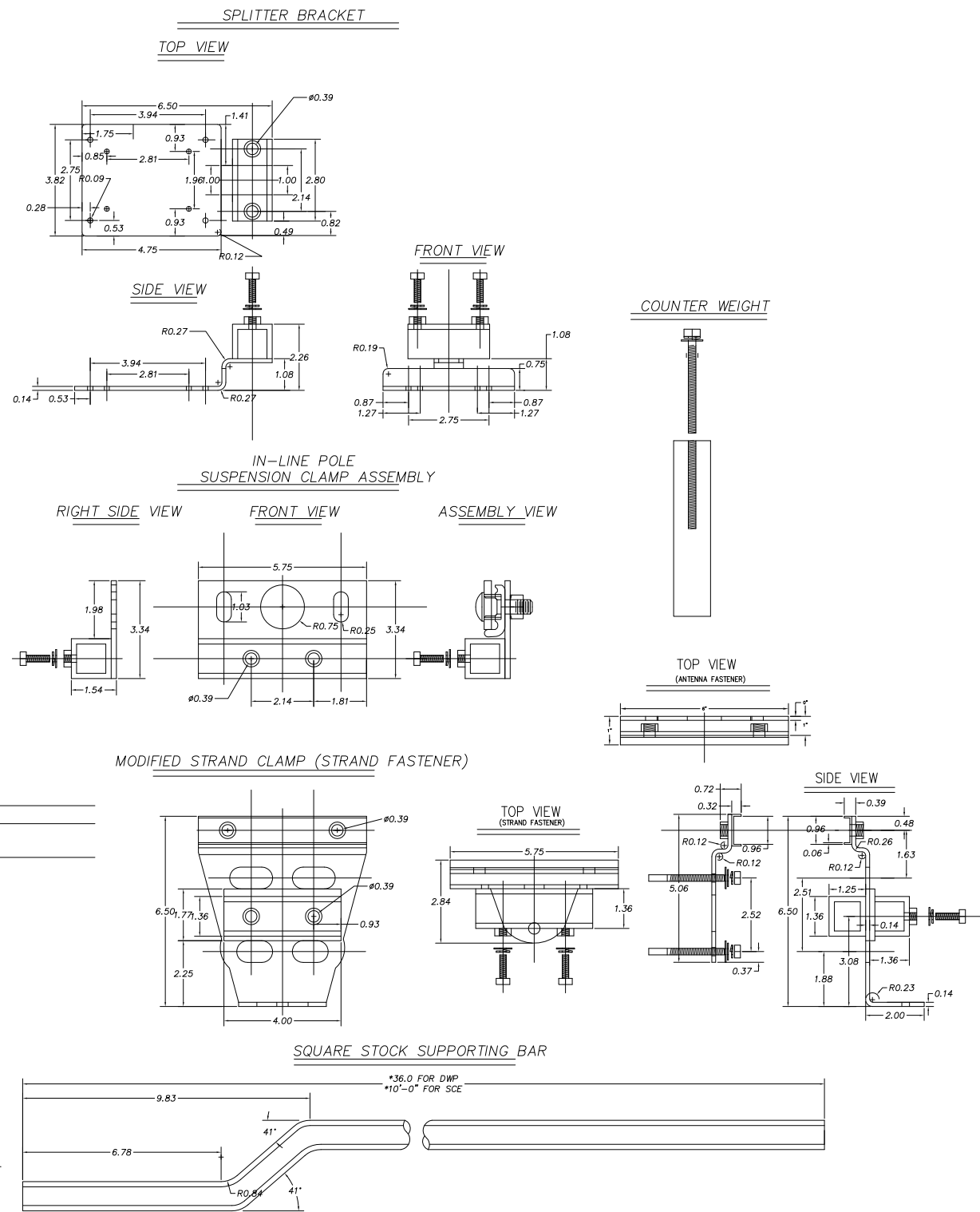
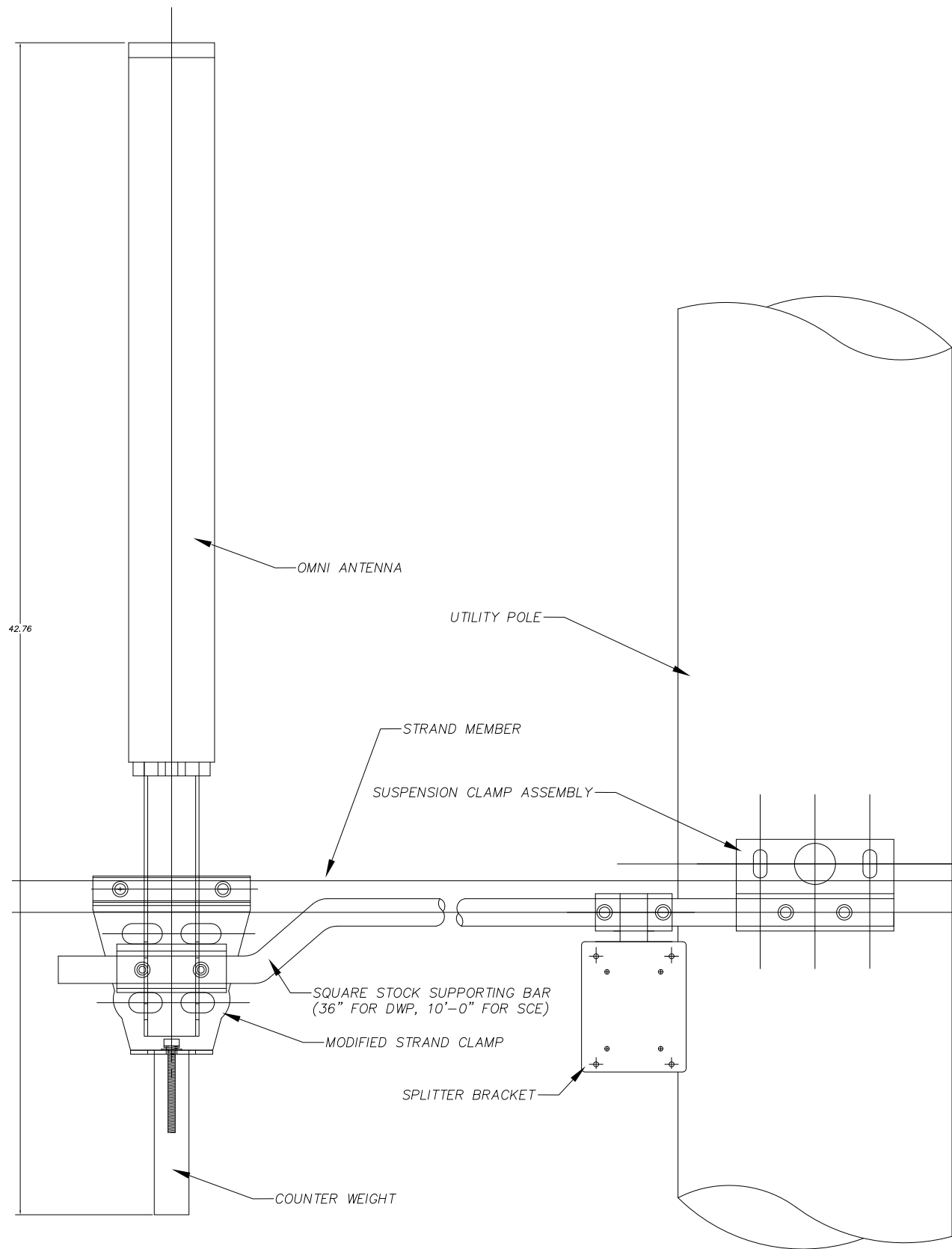
N.T.S.

4

PEDESTAL SPECIFICATIONS

N.T.S.

5



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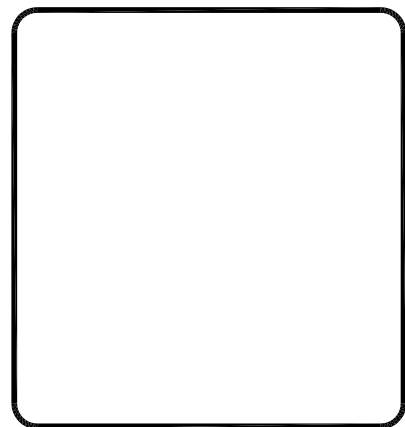
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
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VERIZON MONTECITO-MON05
SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF PARK LN
(ADJACENT TO 985 PARK LN)
SANTA BARBARA, CA 93108
LAT: 34.44746°
LONG: -119.60497°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNA & EQUIPMENT SHROUD ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
SITE PLAN	A-1 - SHEET 2 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 8
GRADING PLAN	A-3 - SHEET 4 OF 8
DETAILS	D-1 - SHEET 5 OF 8
DETAILS	D-2 - SHEET 6 OF 8
DETAILS	D-3 - SHEET 7 OF 8
DETAILS	D-4 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON06m1

R.O.W. SOUTH SIDE OF LILAC DR.

(ADJACENT TO 730 LILAC DR)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	E- ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	A- COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
E ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'x3'
T TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
X EXISTING SERVICE POLE	DETAIL REF.	T TELE. CONDUIT	
X SIDEWALK FLAG		- - - CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF LILAC DR.
(ADJACENT TO 727 LILAC DR)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

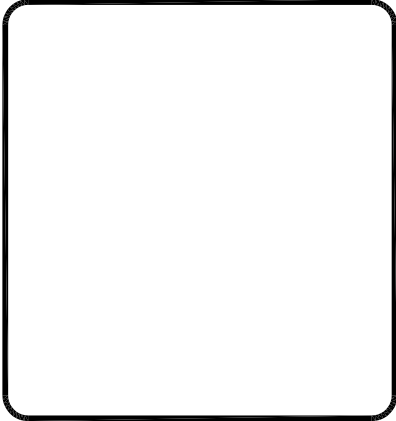
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON06m1
VERIZON MONTECITO-MON06m1

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. EAST SIDE OF LILAC DR.
(ADJACENT TO 730 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.4431514°
LONG: 119.6076583°

SHEET TITLE:

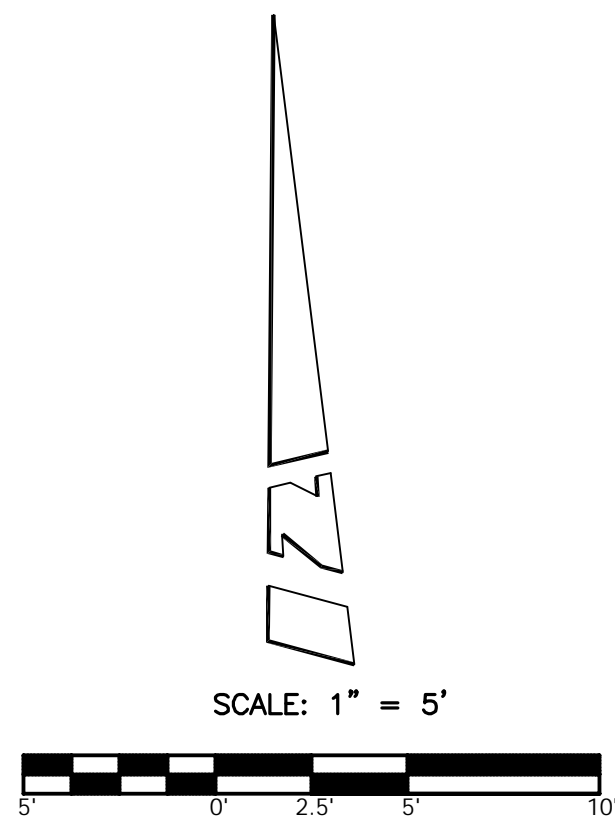
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DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

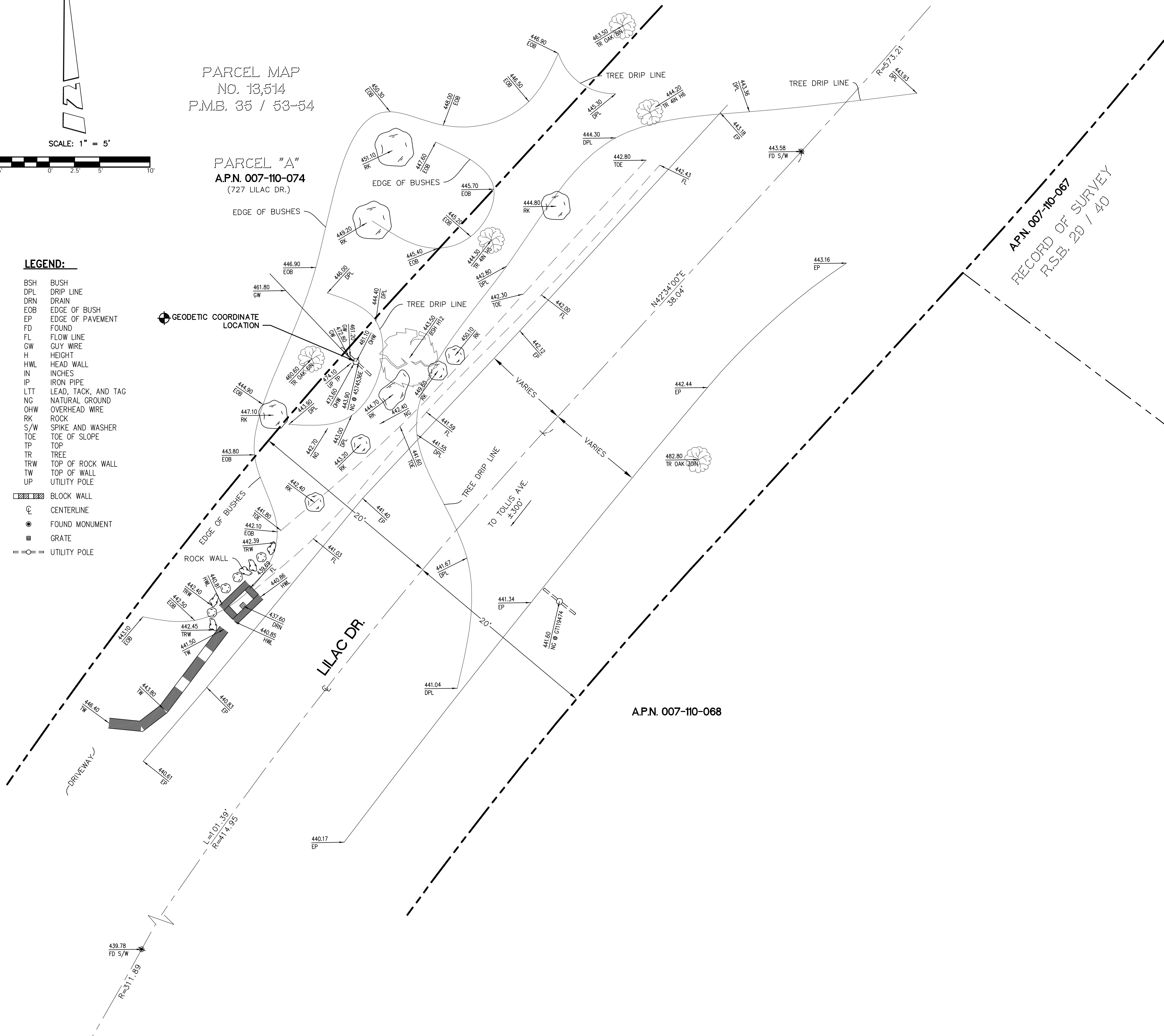


PARCEL MAP
NO. 13,514
P.M.B. 35 / 53-54

PARCEL "A"
A.P.N. 007-110-074
(727 LILAC DR.)

LEGEND:

- BSH BUSH
DPL DRIP LINE
DRN DRAIN
EOB EDGE OF BUSH
EP EDGE OF PAVEMENT
FD FOUND
FL FLOW LINE
GW GUY WIRE
H HEIGHT
HWL HEAD WALL
IN INCHES
IP IRON PIPE
LTT LEAD, TACK, AND TAG
NG NATURAL GROUND
OHW OVERHEAD WIRE
RK ROCK
S/W SPIKE AND WASHER
TOE TOE OF SLOPE
TP TOP
TR TREE
TRW TOP OF ROCK WALL
TW TOP OF WALL
UP UTILITY POLE
- █ BLOCK WALL
○ CENTERLINE
● FOUND MONUMENT
■ GRATE
=○= UTILITY POLE



COORDINATES:

LATITUDE 34°26'34.35" N
LONGITUDE 119°36'28.77" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF LILAC DRIVE, BEING NORTH 42°34'00" EAST PER RECORD OF SURVEY, R.S.B. 29/40, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 472"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 472" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 474.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 11, 2013

SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/23/13 MDL/JA	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



STAMP:



SITE INFO:

SITE NAME:
MON06 VERIZON MONTECITO-MON06
SITE ADDRESS:
R.O.W. WEST SIDE OF LILAC DR (ADJACENT TO 727 LILAC DR) SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON06	MDL	07/23/13

SHEET NUMBER:

1 OF 1	C-1
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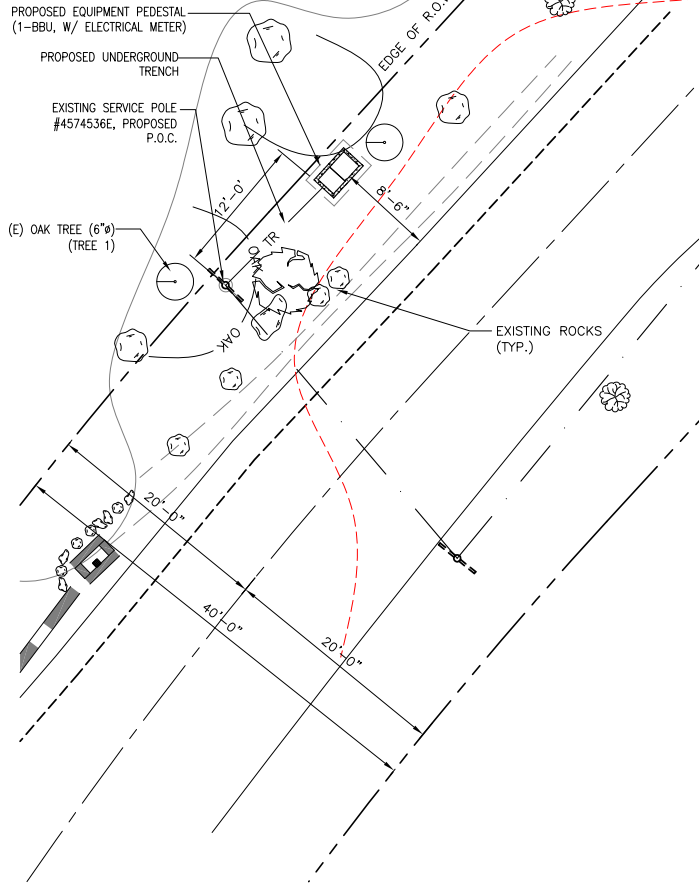
LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊖

NOTE:
TRENCH TO BE HAND DUG.

- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

007-110-074
727 LILAC DR

MON06m1
R.O.W. SOUTH OF LILAC DR
(ADJACENT TO 730 LILAC DR)
LAT: 34.4431514°
LONG: 119.6076583°



SITE PLAN

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

0 2' 4'

1

RISER PROFILE

SCALE:
N.T.S.

2



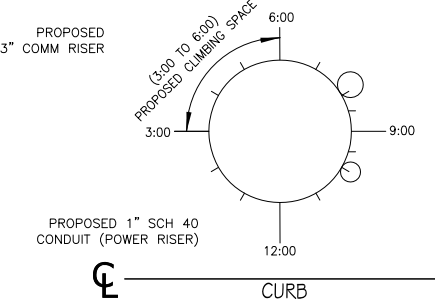
EXISTING PHOTO

SCALE:
N.T.S.

3

POLE WILL BE STEPPED IN
ACCORDANCE TO G095 STANDARDS
IN RESPECT TO CLIMBING SPACE.

- 1-3" CROWN CASTLE RISER @ 10:00
1-3" POWER RISER @ 8:00



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ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:



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VERIZON MONTECITO-MON06m1
SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
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(ADJACENT TO 730 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.4431514°
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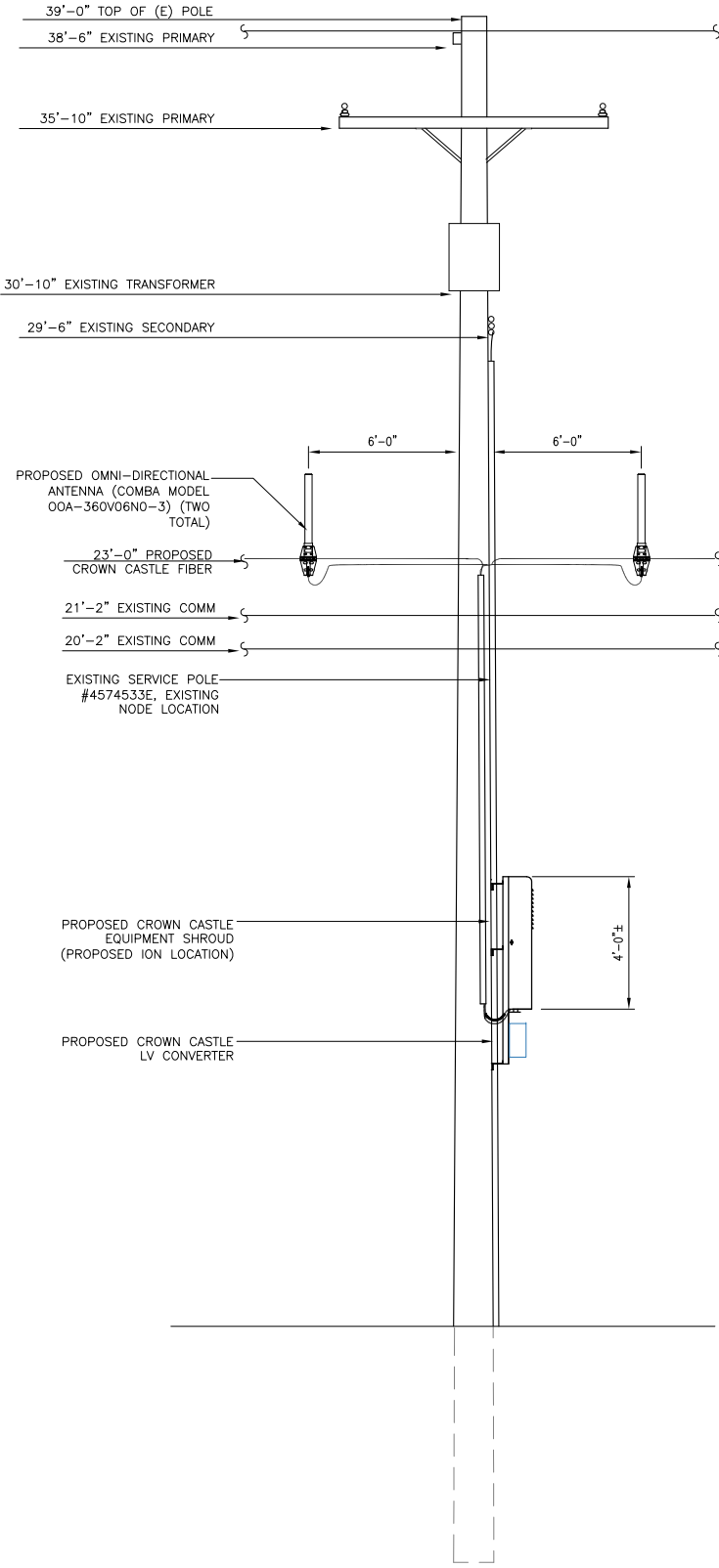
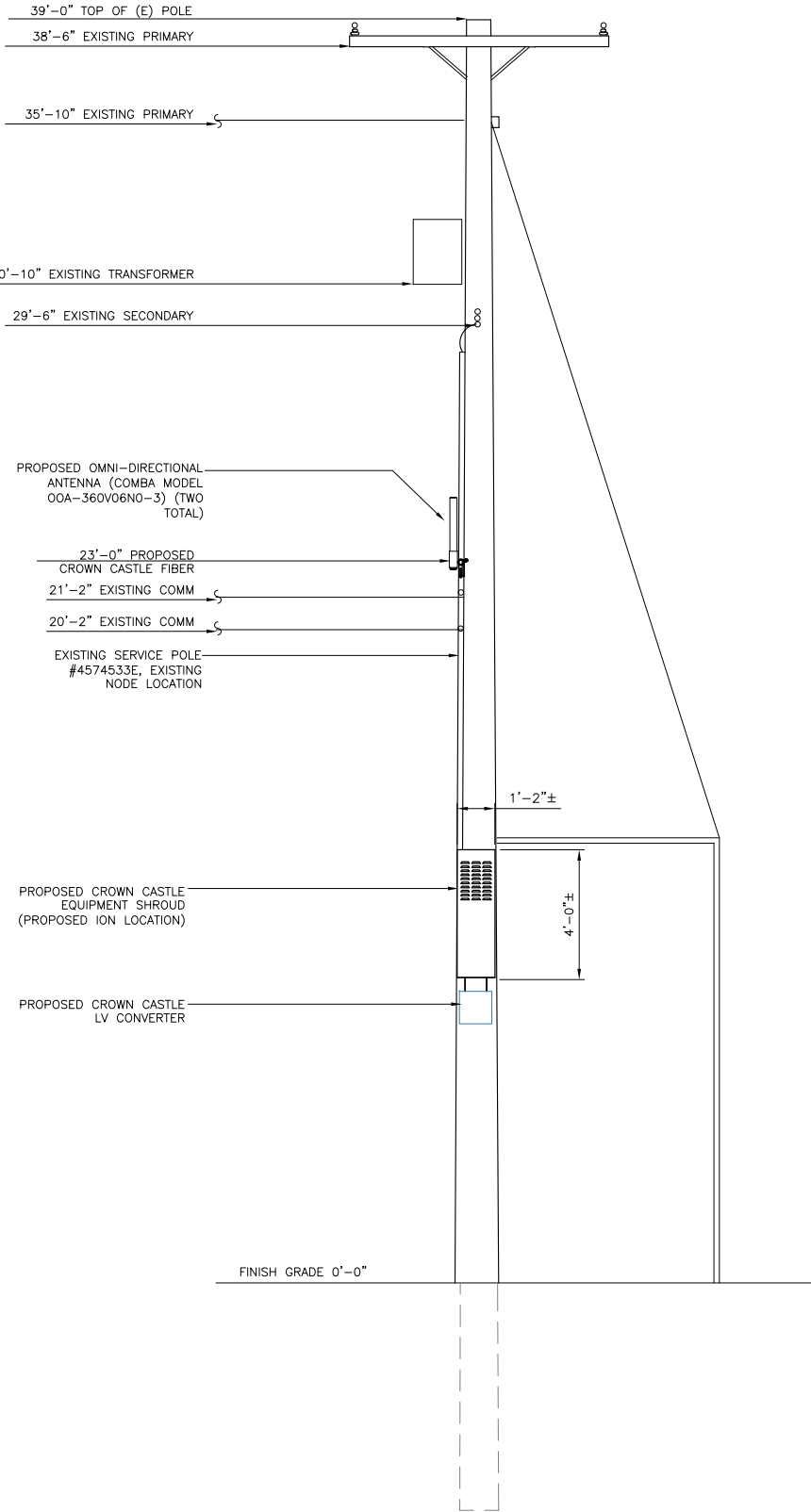
SITE PLAN AND
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

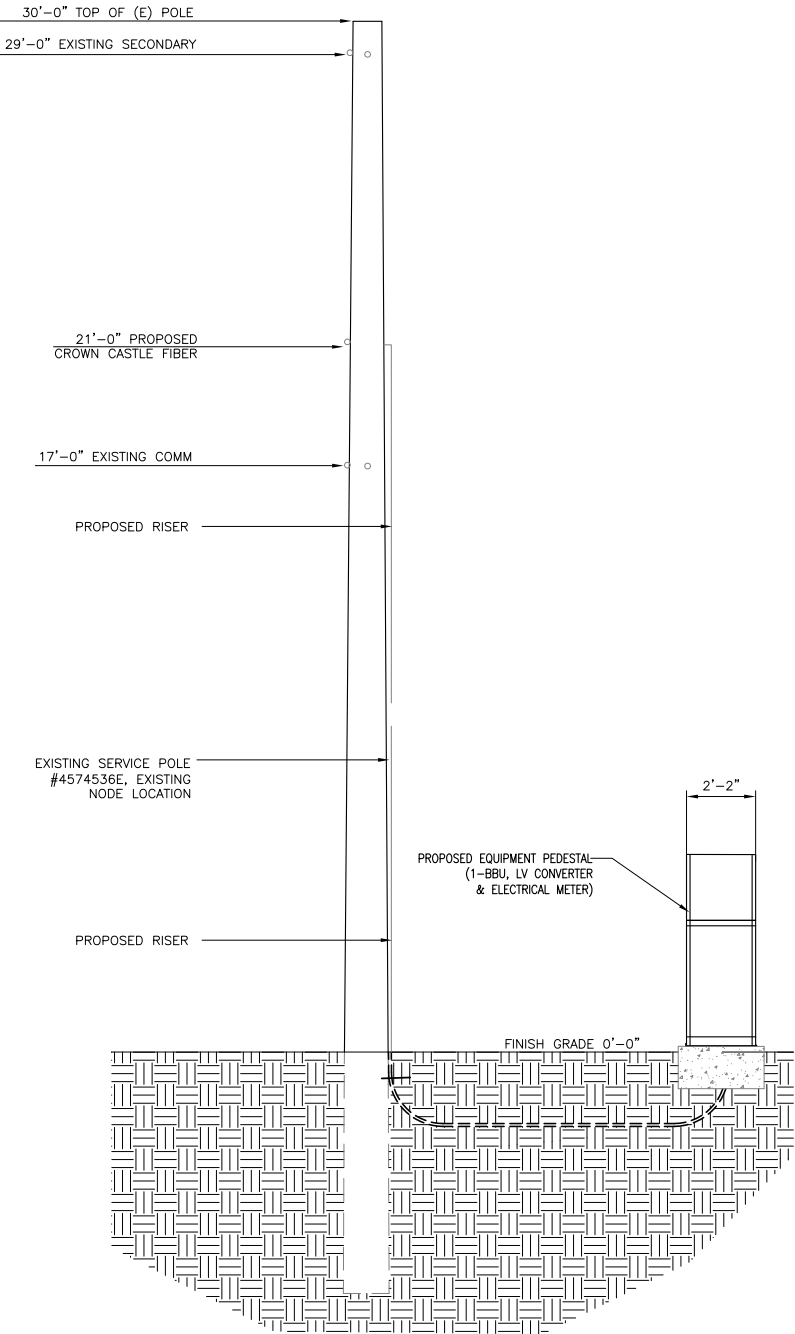
A-1



NOTE:

1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)

2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING NORTHEAST

SCALE:



1

PROPOSED ELEVATION LOOKING SOUTHEAST

SCALE:



2

PROPOSED ELEVATION LOOKING NORTHWEST

SCALE:



3

REV.	DATE/BY:	REVISION DESCRIPTION:
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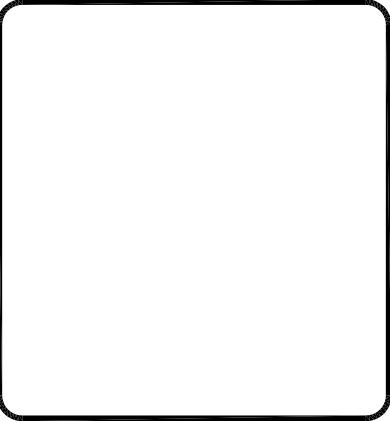
Civil Engineer



CLIENT:



STAMP:



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SANTA BARBARA, CA 93108
LAT: 34.4431514°
LONG: 119.6076583°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

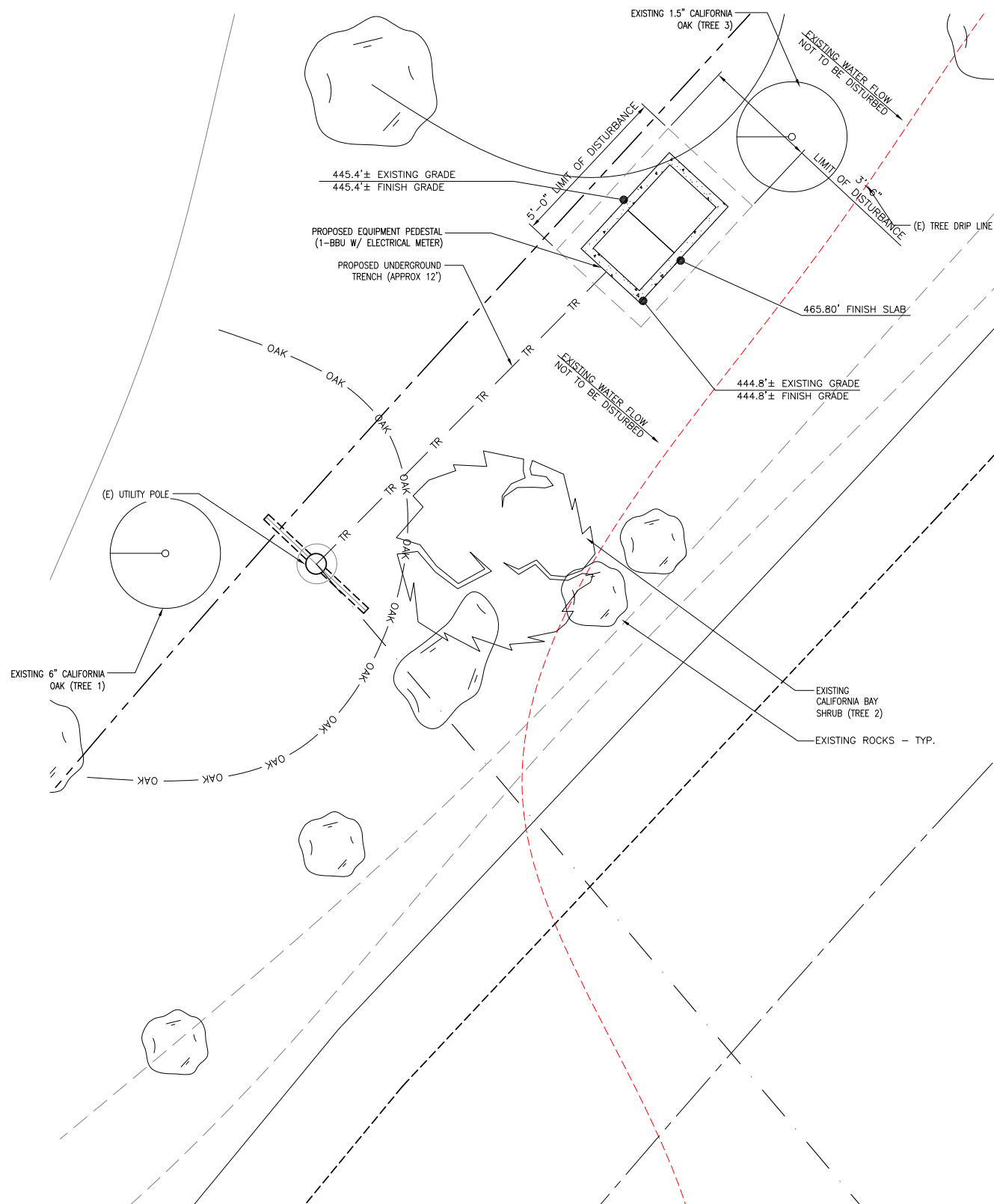
SHEET NUMBER:

A-2

NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION

CONCRETE PAD: 5 CF
12'Lx3'Dx.5'W TRENCH: 18 CF
TOTAL: 23 CF



LEGEND:

BSH BUSH
DPL DRIP LINE
DRN DRAIN
EOB EDGE OF BUSH
EP EDGE OF PAVEMENT
FD FOUND
FL FLOW LINE
GW GUY WIRE
H HEIGHT
HWL HEAD WALL
IN INCHES
IP IRON PIPE
LTT LEAD, TACK, AND TAG
NG NATURAL GROUND
OHW OVERHEAD WIRE
RK ROCK
S/W SPIKE AND WASHER
TOE TOE OF SLOPE
TP TOP
TR TREE
TRW TOP OF ROCK WALL
TW TOP OF WALL
UP UTILITY POLE
BLOCK WALL
CENTERLINE
FOUND MONUMENT
GRATE
UTILITY POLE

LEGEND

TREE DRIP LINE
CAL OAK DRIP LINE
TRENCH
CAL OAK
TREE
OAK
TR

NOTE:
TRENCH TO BE HAND DUG.

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ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



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(ADJACENT TO 730 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.4431514°
LONG: 119.6076583°

SHEET TITLE:

GRADING PLAN

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3

Outdoor Omni-directional Antenna

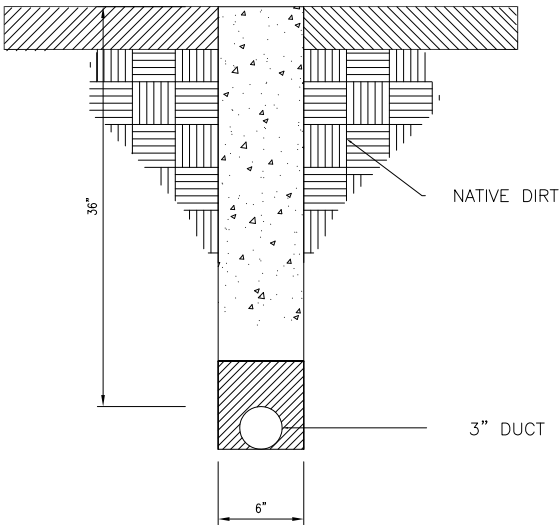
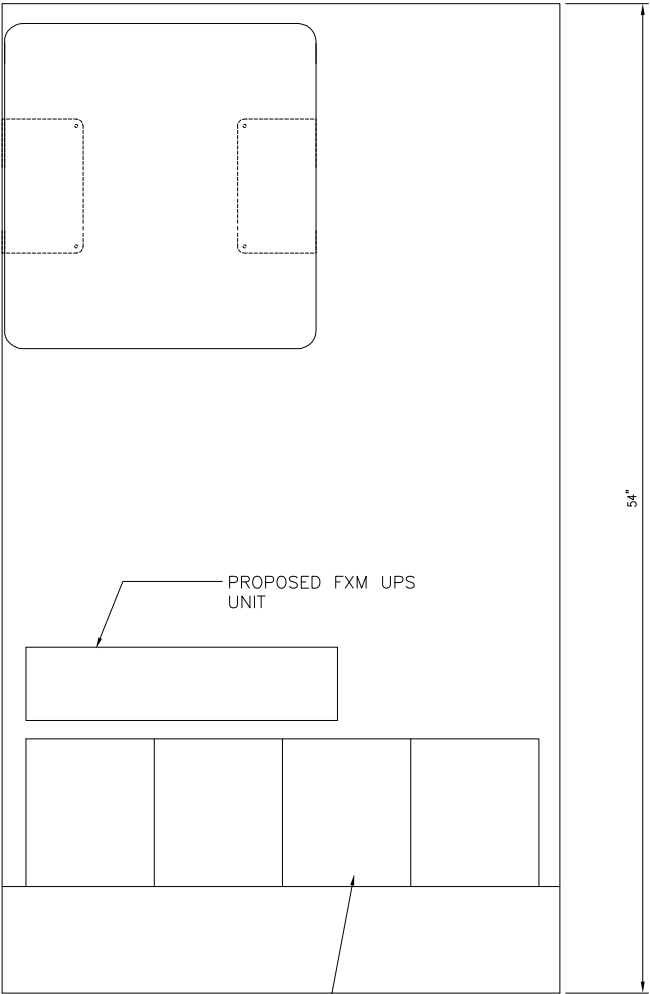
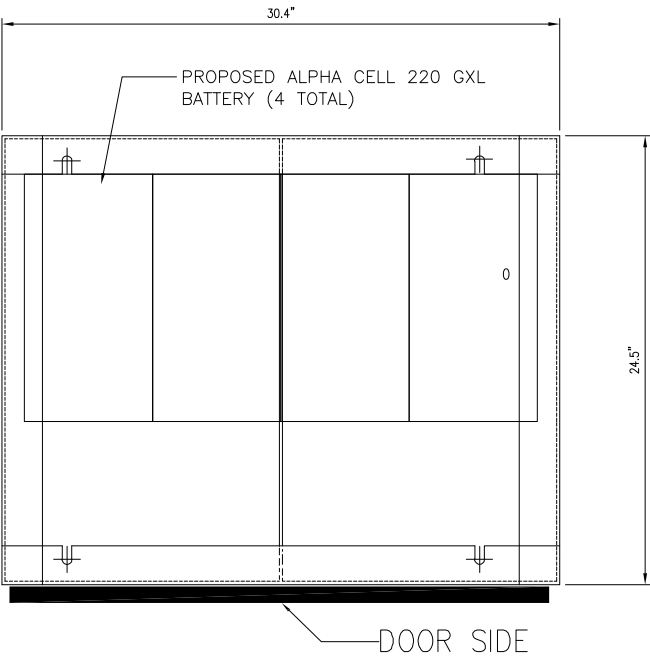
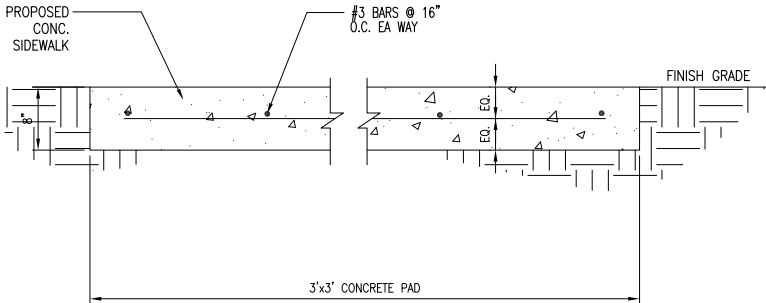
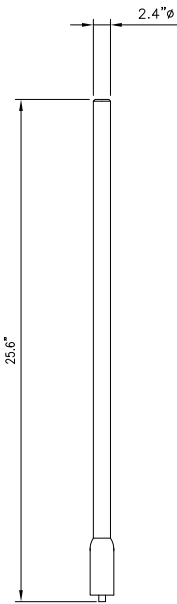
COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 40/6.0 dBi

Technical Specifications

Electrical				
Frequency Range	MHz	696-960	1710-2170	
Polarization		Vertical		
Gain	dBi	4.0±1	6.0±1	
Horizontal Beamwidth	deg	360		
Vertical Beamwidth	deg	22-53	20-26	
Electrical Downtilt-Fixed	deg	0		
VSWR		1.8		
Maximum Power	W	200		
Impedance		50		
Lightning Protection		Direct Ground		

Mechanical				
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)		
Weight, with Mounting kit	kg (lb)	1 (2.2)		
Radome Material and Color		Fiberglass, Light Grey		
Radiating Element Material		Copper		
Connector Type and Location		N-Female, Bottom		
Operational Temperature		-55 to +70		
Operational Humidity	%	95		
Operational Wind Speed	km/h (mph)	200 (124)		
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)		
Shipping Weight	kg (lb)	1.2 (2.65)		



* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	
Uplink	698 to 716/776 to 787
Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	
Uplink	824 to 849
Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO



ION-M7P/7P/85P/19P

Noise figure, dB	
ICP3 optimized	+10 max.
Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	---------------------------------------

Weight, kg (lb)	40 (88.2)
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Page 1, February 27, 2013

Company Confidential

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

N.T.S.

4

EQUIPMENT PEDESTAL

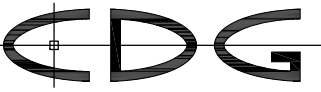
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6

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON06m1
	VERIZON MONTECITO-MON06m1
SITE ADDRESS:	THOMAS BROS PAGE xxx GRID xx R.O.W. EAST SIDE OF LILAC DR. (ADJACENT TO 730 LILAC DR) SANTA BARBARA, CA 93108 LAT: 34.4431514° LONG: 119.6076583°

SHEET TITLE:

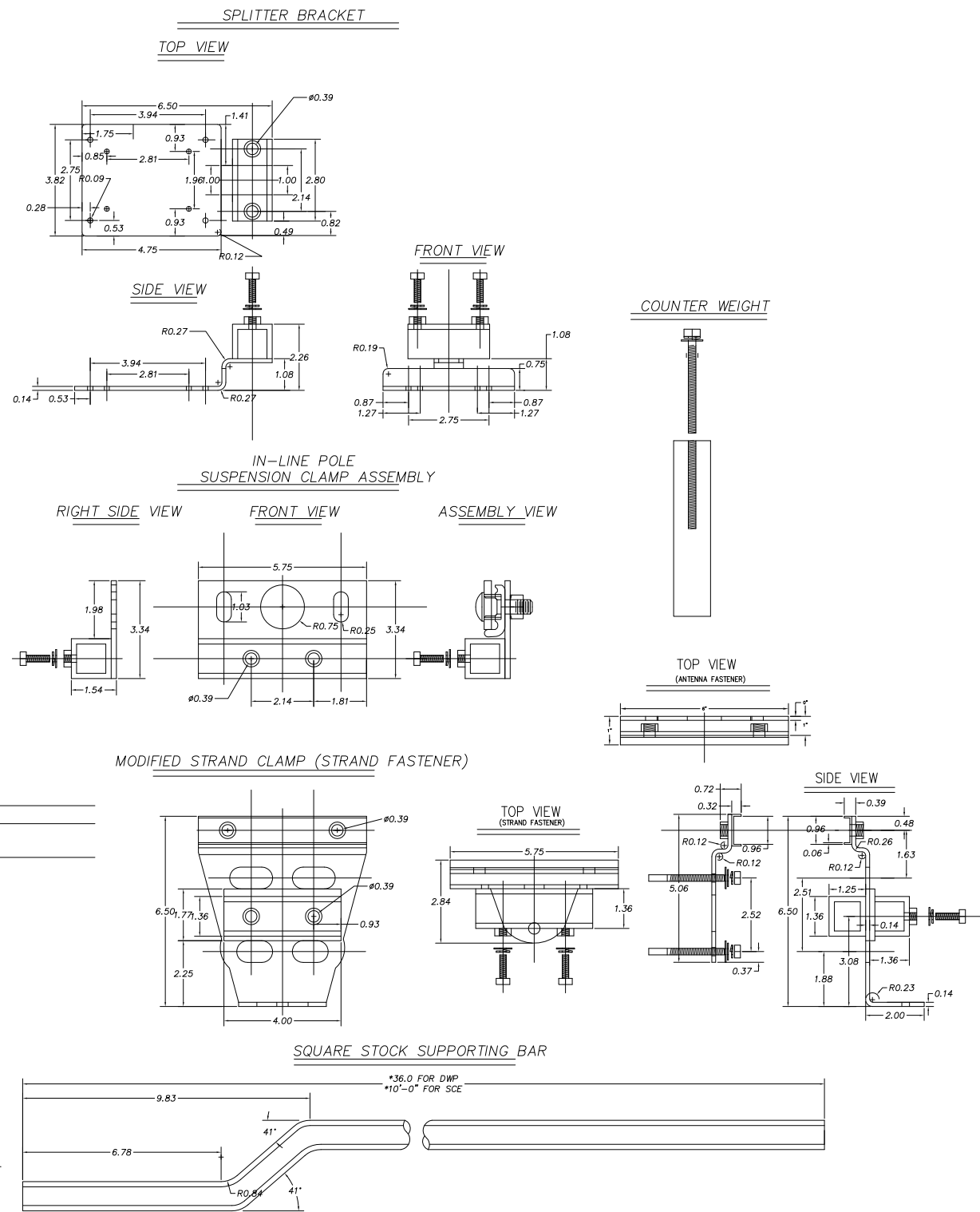
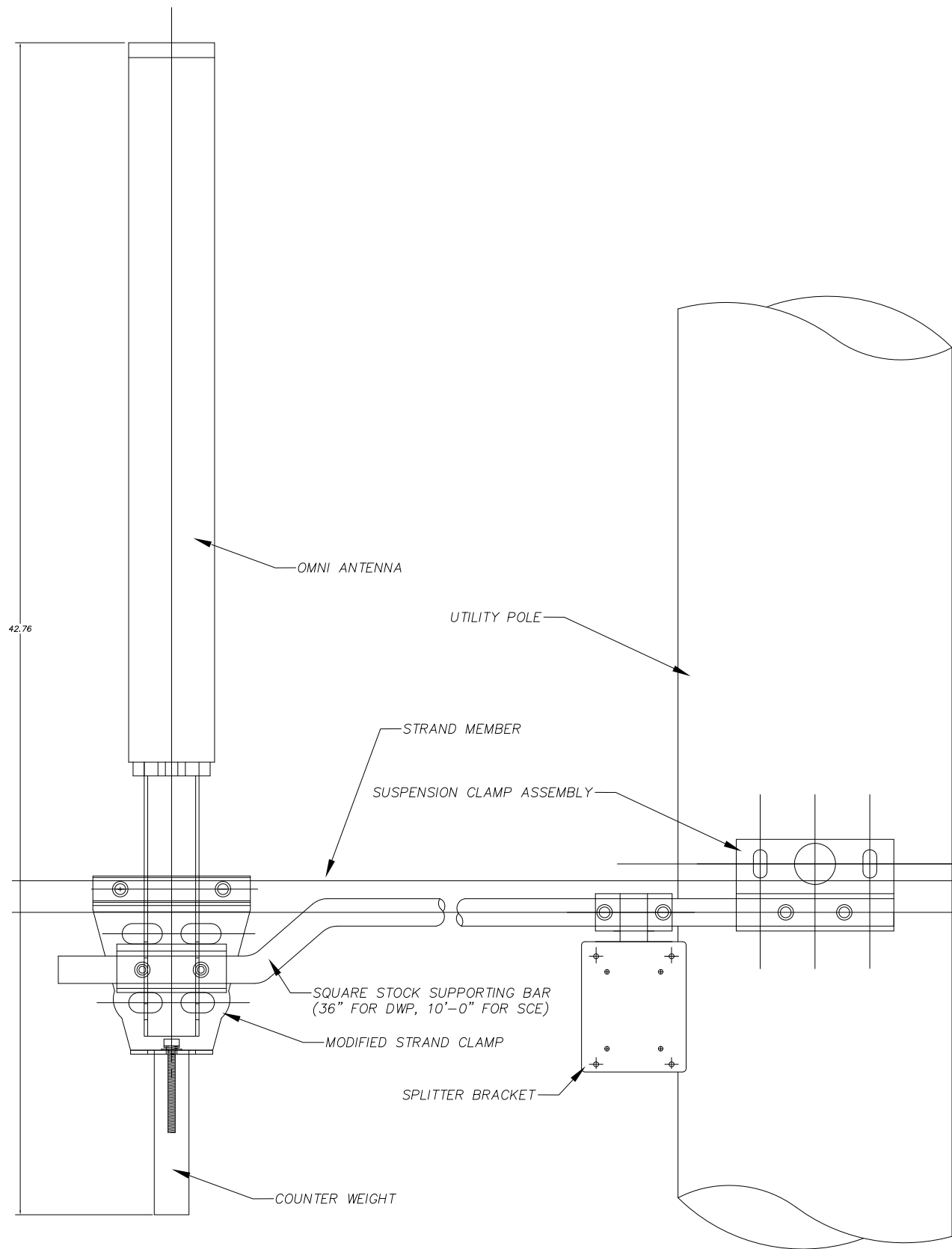
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, LLC

STAMP:

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VERIZON MONTECITO-MON06m1

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
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SANTA BARBARA, CA 93108
LAT: 34.4431514°
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SHEET TITLE:

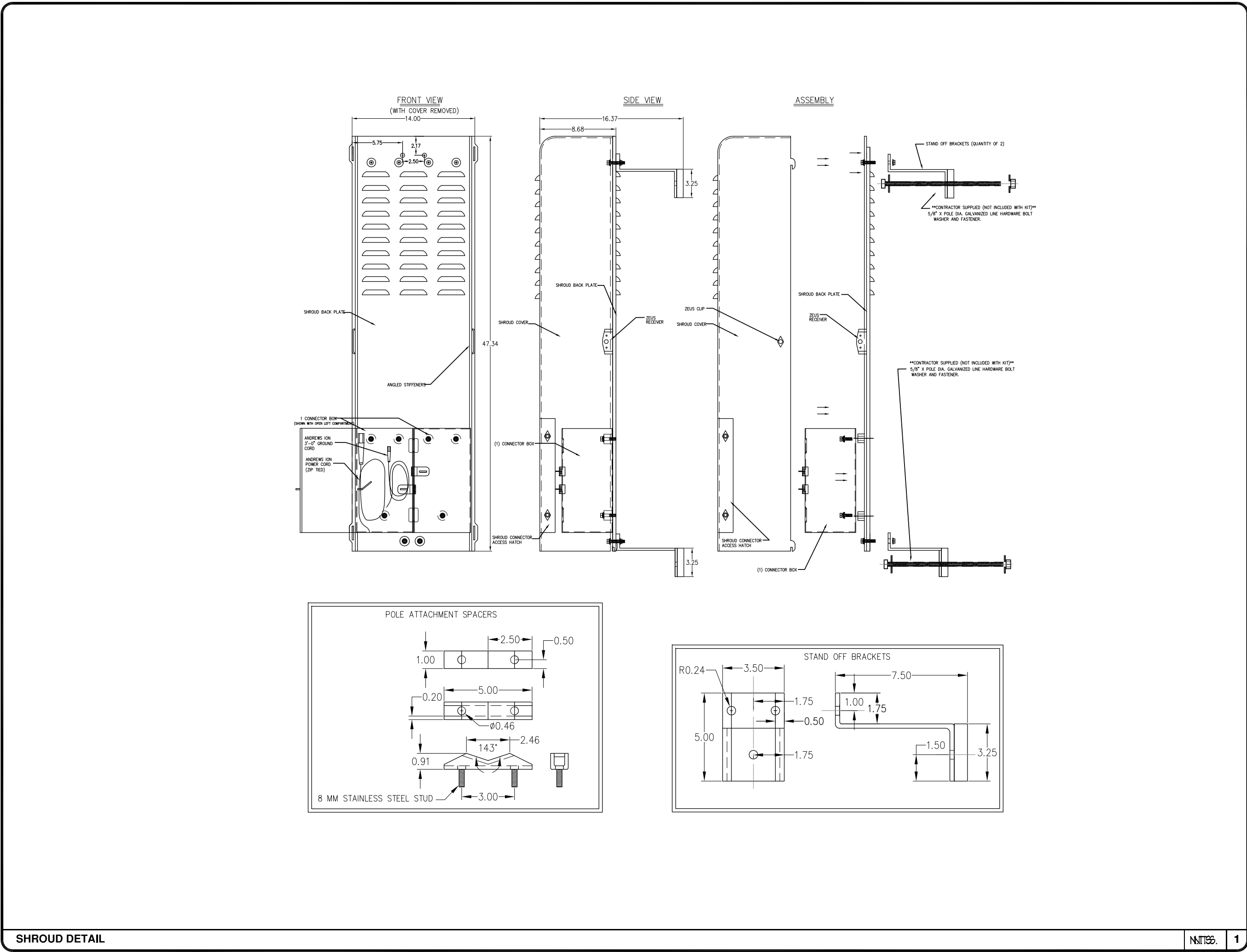
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630

(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE

NG WEST, LLC

STAMP:

SITE INFO:

SITE NAME: MON06m1

VERIZON MONTECITO-MON06m1

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx

R.O.W. EAST SIDE OF LILAC DR.

(ADJACENT TO 730 LILAC DR)

SANTA BARBARA, CA 93108

LAT: 34.4431514°

LONG: 119.6076583°

SHEET TITLE:

DETAILS

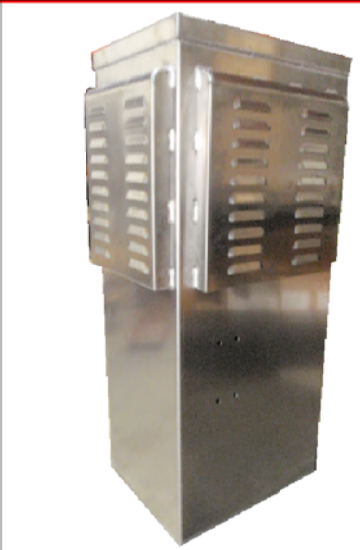
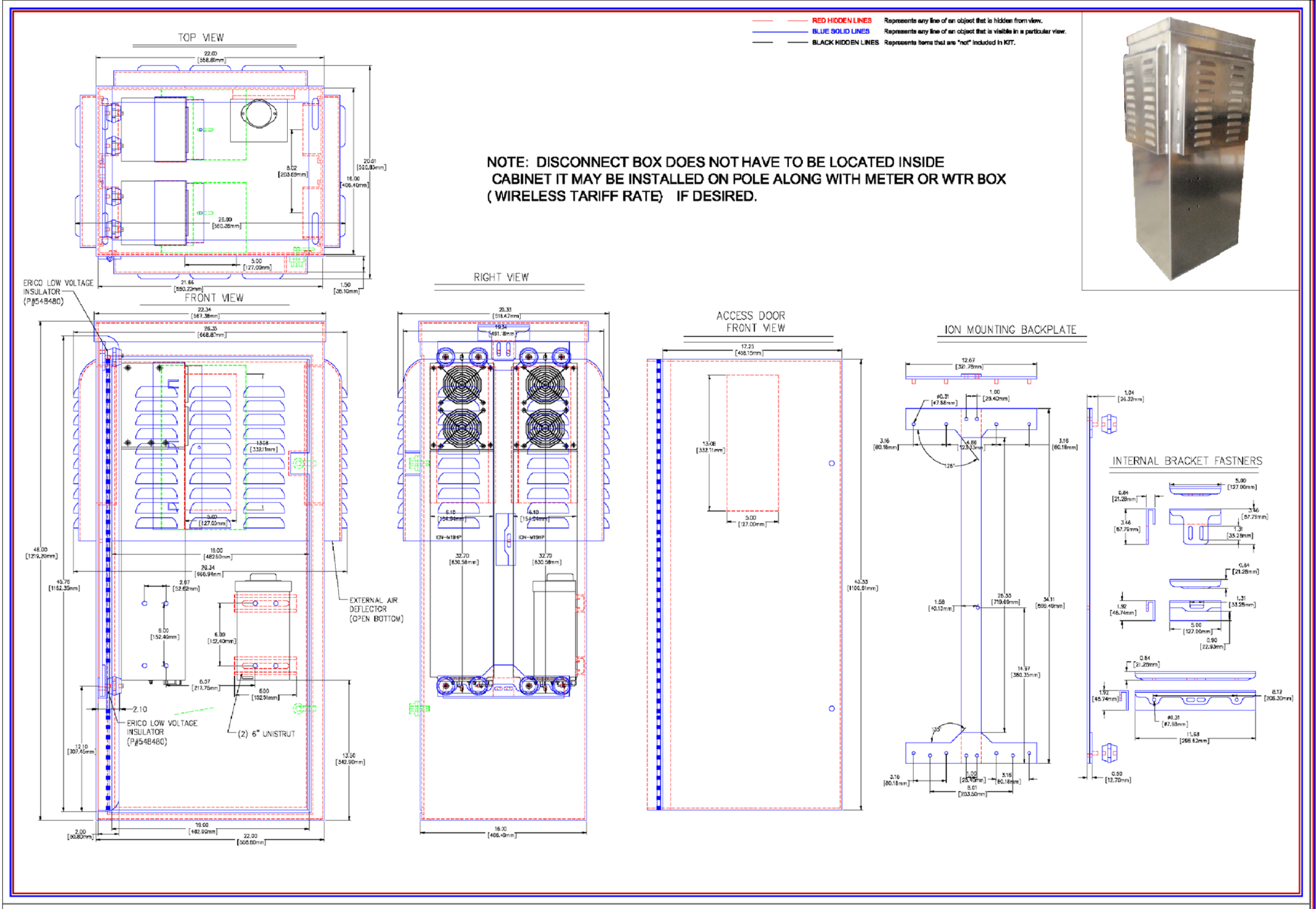
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DRAWN BY:

FC

SHEET NUMBER:

D-3



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE

NG WEST, LLC

STAMP:

SITE INFO:

SITE NAME: MON06m1

VERIZON MONTECITO-MON06m1

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
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(ADJACENT TO 730 LILAC DR)
SANTA BARBARA, CA 93108
LAT: 34.4431514°
LONG: 119.6076583°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-4

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON07

R.O.W. SOUTH SIDE OF BELLE VISTA DR

(ADJACENT TO 2395 BELLE VISTA DR)

SANTA BARBARA, CA 93108



VICINITY MAP – N.T.S.

	GROUND BUS BAR		LIGHT POLE		ELEVATION REF.		ELECT. CONDUIT
	MECH. GRND. CONN.		FOUNDATION		SECTION REF.		COAXIAL CABLE
	CADWELD		SPOT ELEV.		PROP./LEASE LINE		MYERS PEDESTAL
	ELECTRIC BOX		SET POINT		MATCH LINE		VAULT
	TELEPHONE BOX		REVISION		WORK POINT		STANDARD 2'X3'
	EXISTING SERVICE POLE		DETAIL REF.		TELE. CONDUIT		STEEL POLE
	SIDEWALK FLAG				CENTERLINE		
	EX. MANHOLE						

SYMBOLS, LINETYPES AND HATCH PATTERNS

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF BELLE VISTA DR (ADJACENT TO 2395 BELLE VISTA DR) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/06/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

SITE NAME: MON07
VERIZON MONTECITO-MON07

SITE ADDRESS: THOMAS BROS PAGE 987 GRID D-7
R.O.W. SOUTH SIDE OF BELLE VISTA DR
(ADJACENT TO 2395 BELLE VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.449106
LONG: -119.594733

SHEET TITLE:

TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

CONSTRUCTION CHANGE TABLE

CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES

ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:

- *2010 CALIFORNIA BUILDING CODE
- *2010 CALIFORNIA MECHANICAL CODE
- *2010 CALIFORNIA PLUMBING CODE
- *2010 CALIFORNIA ELECTRICAL CODE

IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

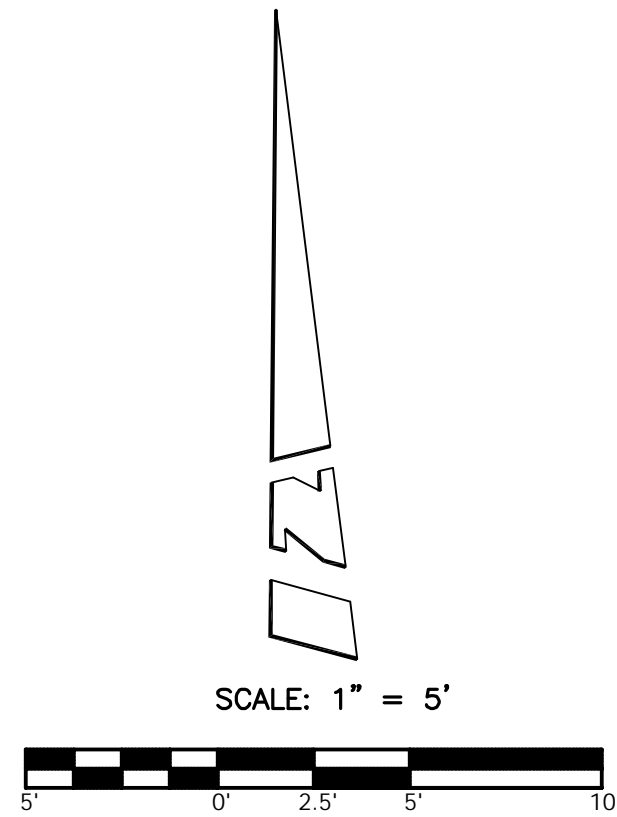
PROJECT DESCRIPTION

PROJECT CONSISTS OF INSTALLATION OF:

- (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
- EQUIPMENT SHROUD ON EXISTING POLE
- EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:

TITLE SHEET	T-1 - SHEET 1 OF 5
SITE PLAN	A-1 - SHEET 2 OF 5
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 5
DETAILS	D-1 - SHEET 4 OF 5
DETAILS	D-2 - SHEET 5 OF 5



RECORD OF SURVEY
R.S.B. 46 / 25

A.P.N. 007-040-022

BELLA VISTA DR.

A.P.N. 007-040-005
(2395 BELLA VISTA DR.)

LEGEND:

- BSH BUSH
DPL DRIP LINE
EDPB EDISON PULL BOX
EP EDGE OF PAVEMENT
FD FOUND
IN INCH
INS INSULATOR
IP IRON PIPE
MBX MAIL BOX
NG NATURAL GROUND
RK ROCK
TOP TOP OF SLOPE
TP TOP
TR TREE
TRN TRANSFORMER
UP UTILITY POLE
CL CENTERLINE
● FOUND MONUMENT
=O= UTILITY POLE

COORDINATES:

LATITUDE 34°26'56.78" N
LONGITUDE 119°35'41.04" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF BELLE VISTA DRIVE, BEING NORTH 86°22'00" EAST PER RECORD OF SURVEY, R.S.B. 46/25, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 750"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 750" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 752.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 17, 2013

SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/25/13 MDL/JA	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



JN. 706.222

STAMP:



SITE INFO:

SITE NAME:

MON07
VERIZON MONTECITO-MON07

SITE ADDRESS:

R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2395 BELLA VISTA DR)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON07	MDL	07/25/13

SHEET NUMBER:

1 OF 1

C-1

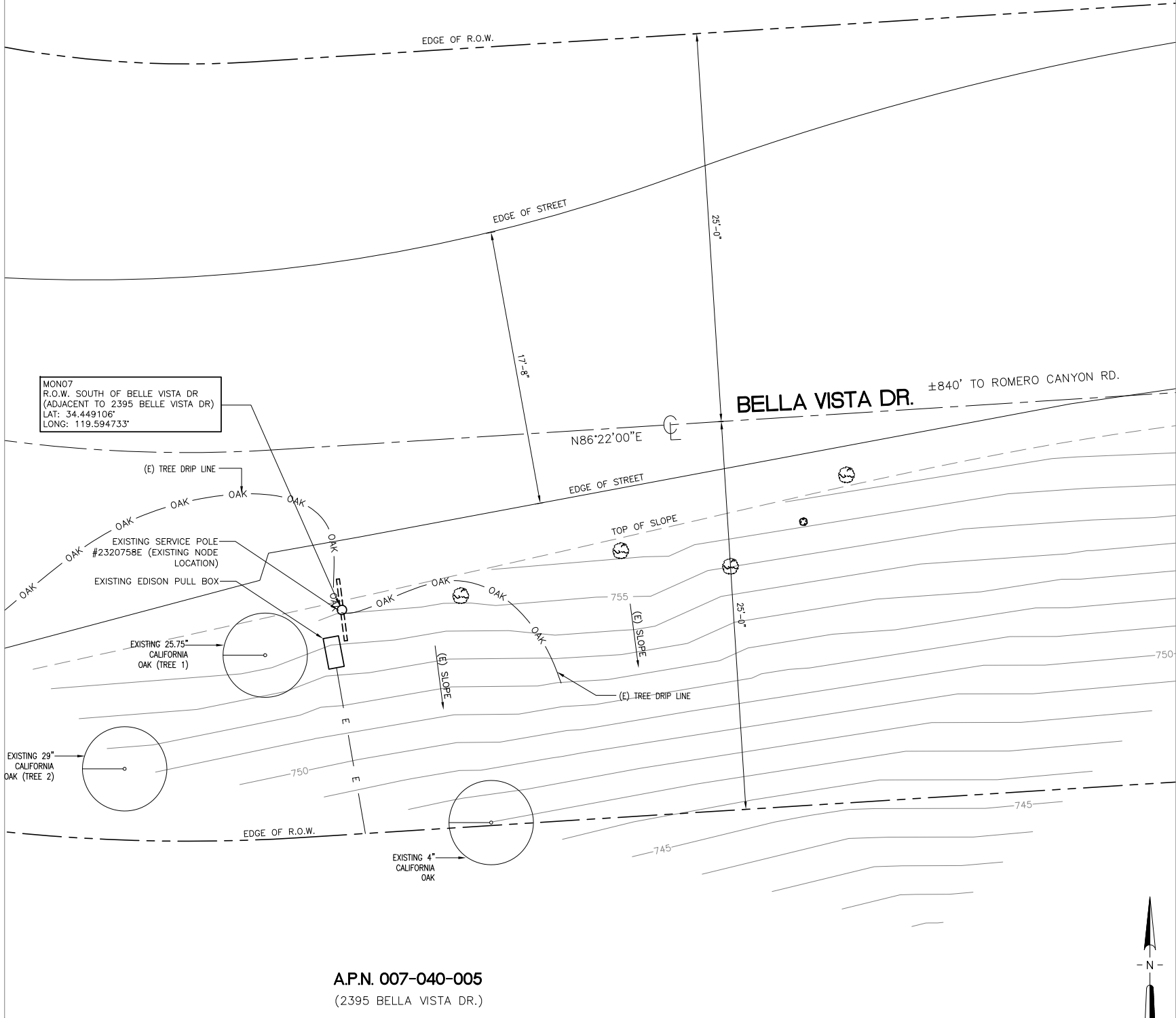
LEGEND	
TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	

NOTE:
TRENCH TO BE HAND DUG.

- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

RECORD OF SURVEY
R.S.B. 46 / 25

A.P.N. 007-040-022



A.P.N. 007-040-005
(2395 BELLA VISTA DR.)

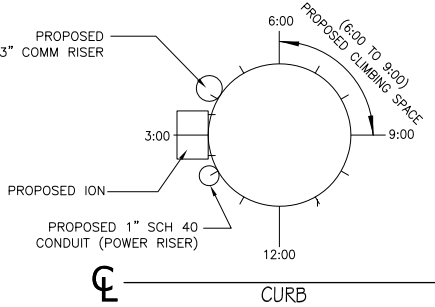


EXISTING PHOTO

SCALE:
N.T.S. 3

POLE WILL BE STEPPED IN
ACCORDANCE TO G095 STANDARDS
IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 4:00
1-1" POWER RISER @ 2:00



RISER PROFILE

SCALE:
N.T.S. 2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/06/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

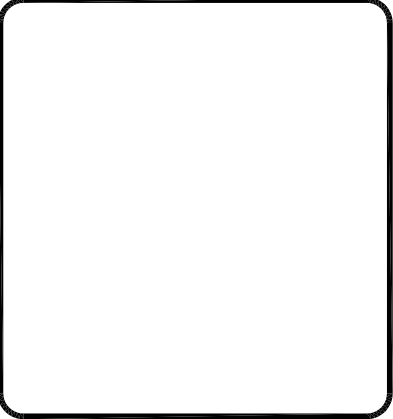
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON07
VERIZON MONTECITO-MON07
SITE ADDRESS: THOMAS BROS PAGE 987 GRID D-7
R.O.W. SOUTH SIDE OF BELLE VISTA DR
(ADJACENT TO 2395 BELLE VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.449106
LONG: -119.594733

SHEET TITLE:

SITE PLAN, EXISTING PHOTO
AND RISER PROFILE

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

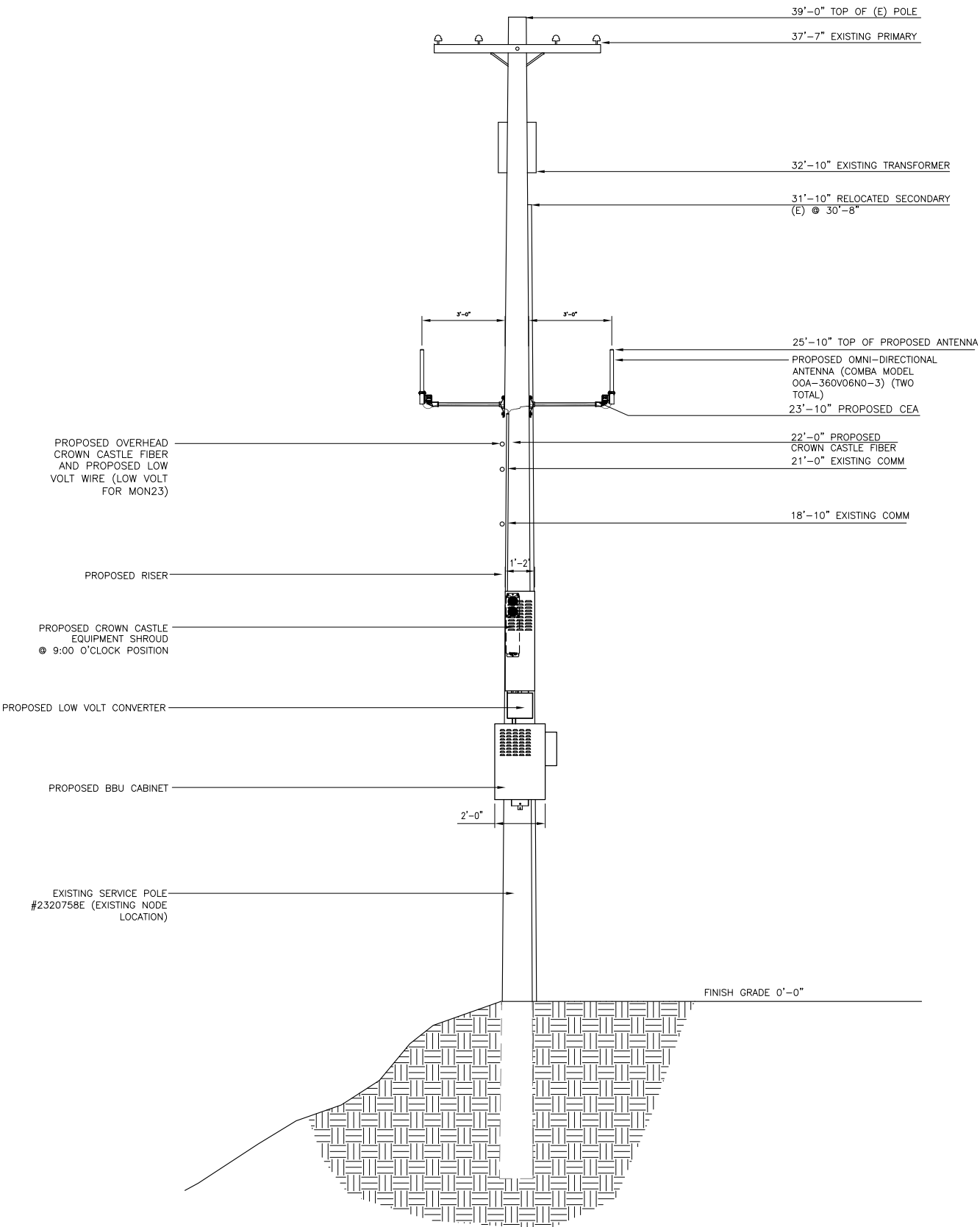
A-1

SITE PLAN

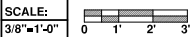
SCALE:
1/4"=1'-0" 1



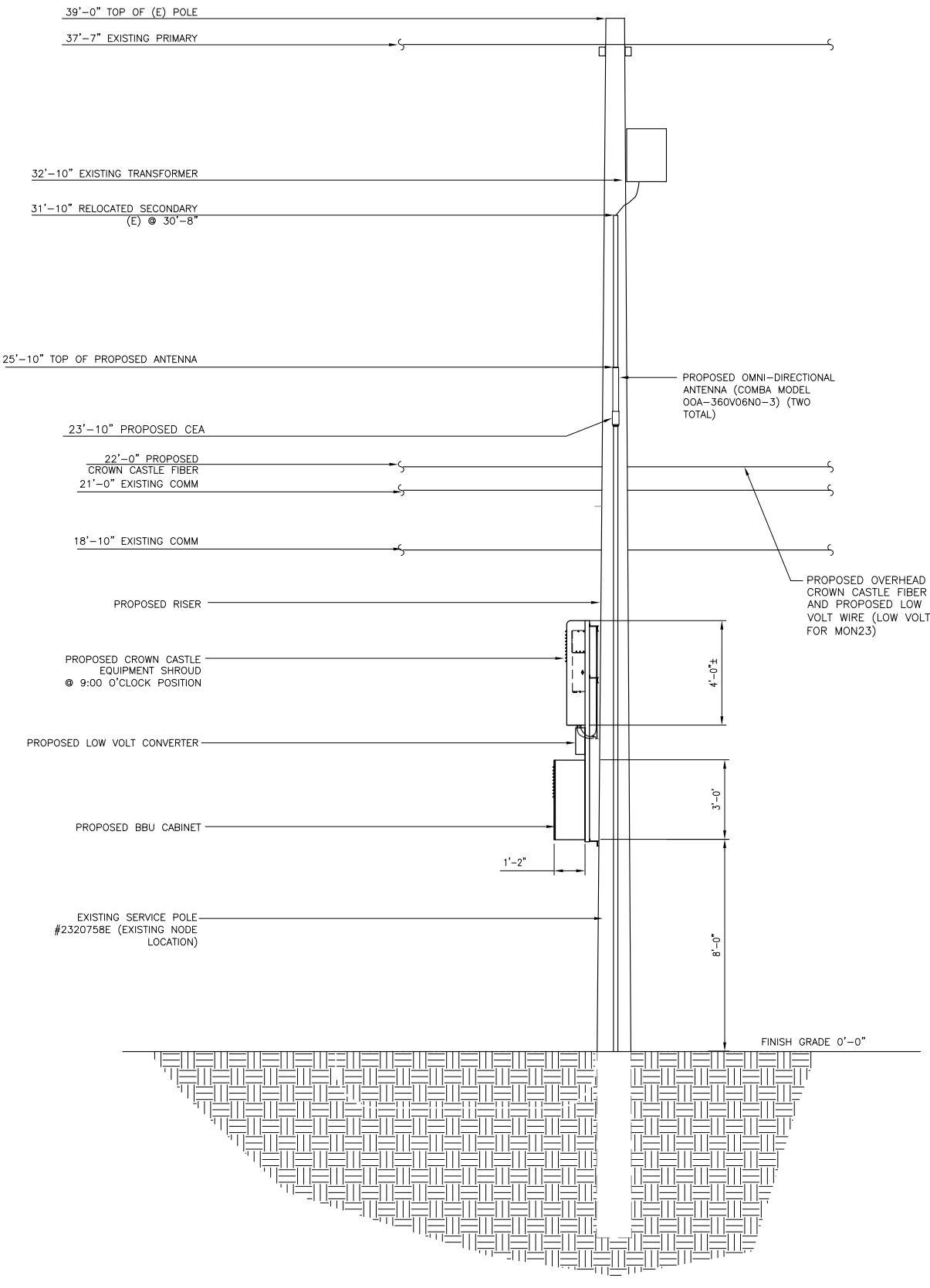
NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING WEST



1



PROPOSED ELEVATION LOOKING SOUTH



2

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

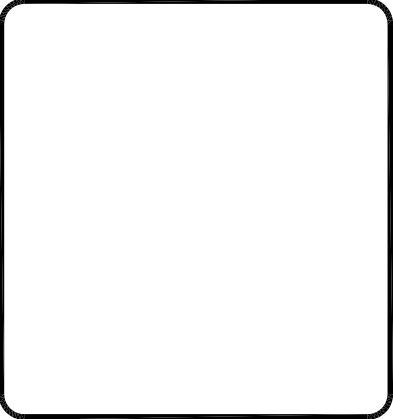
Civil Engineer



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SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2

Outdoor Omni-directional Antenna

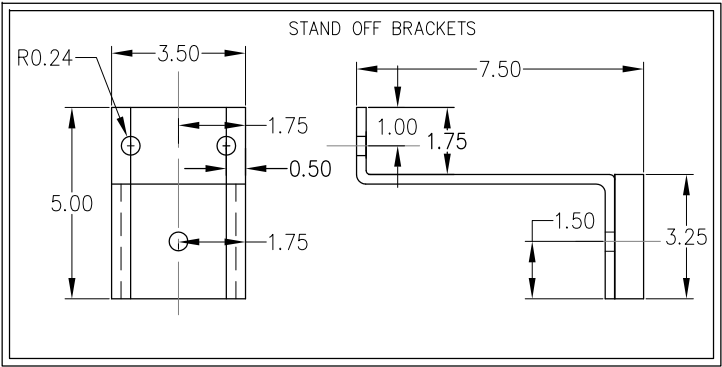
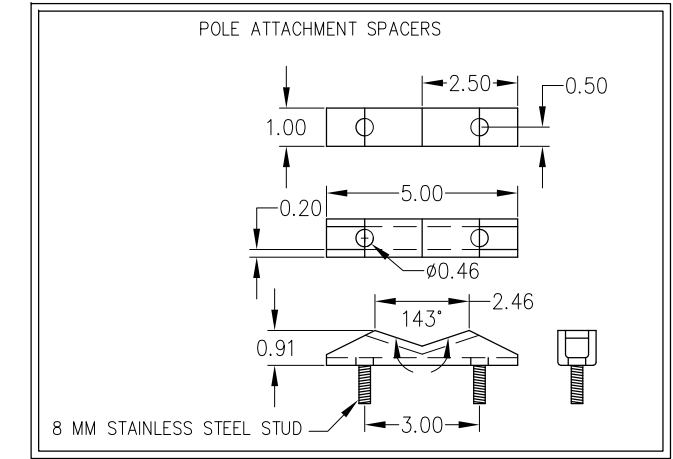
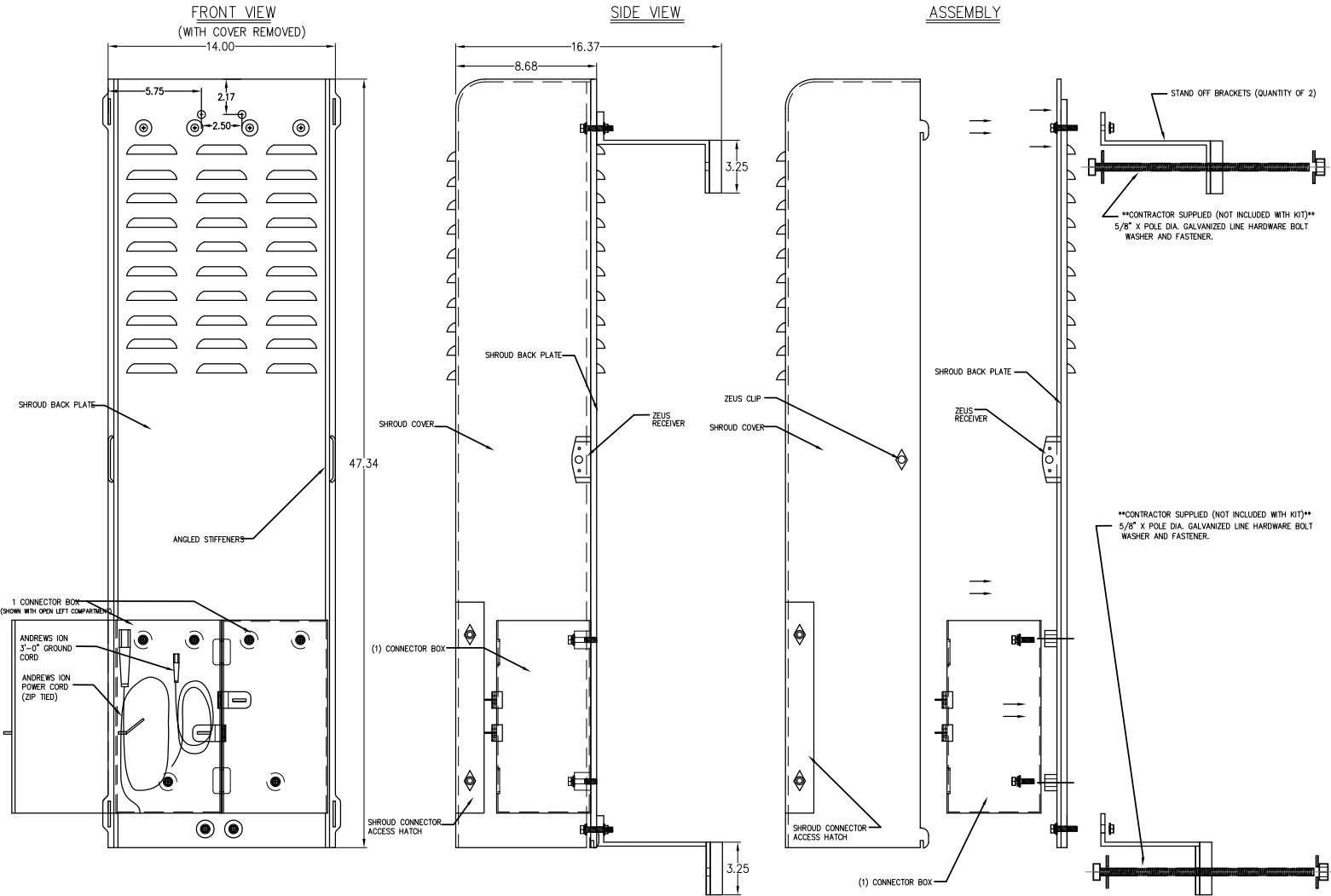
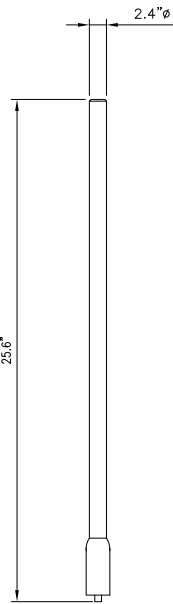
COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 40/6.0dBi

Technical Specifications

Electrical				
Frequency Range	MHz	696-960	1710-2170	
Polarization		Vertical		
Gain	dBi	4.0±1	6.0±1	
Horizontal Beamwidth	deg	360		
Vertical Beamwidth	deg	22-53	20-26	
Electrical Downtilt-Fixed	deg	0		
VSWR		1.8		
Maximum Power	W	200		
Impedance		50		
Lightning Protection		Direct Ground		

Mechanical				
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)		
Weight, with Mounting kit	kg (lb)	1 (2.2)		
Radome Material and Color		Fiberglass, Light Grey		
Radiating Element Material		Copper		
Connector Type and Location		N-Female, Bottom		
Operational Temperature		-55 to +70		
Operational Humidity	%	95		
Operational Wind Speed	km/h (mph)	200 (124)		
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)		
Shipping Weight	kg (lb)	1.2 (2.65)		



ANTENNA SPECIFICATIONS

N.T.S.

1

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink	698 to 716/776 to 787
	Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink	824 to 849
	Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink	1850 to 1915
	Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB

ICP3 optimized	+10 max.
Noise figure optimized	+6 max. 4.5 typical

Mechanical****

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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ION-M7P/7P/85P/19P

N.T.S.

2

SHROUD DETAIL

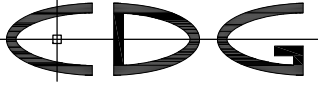
N.T.S.

5

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

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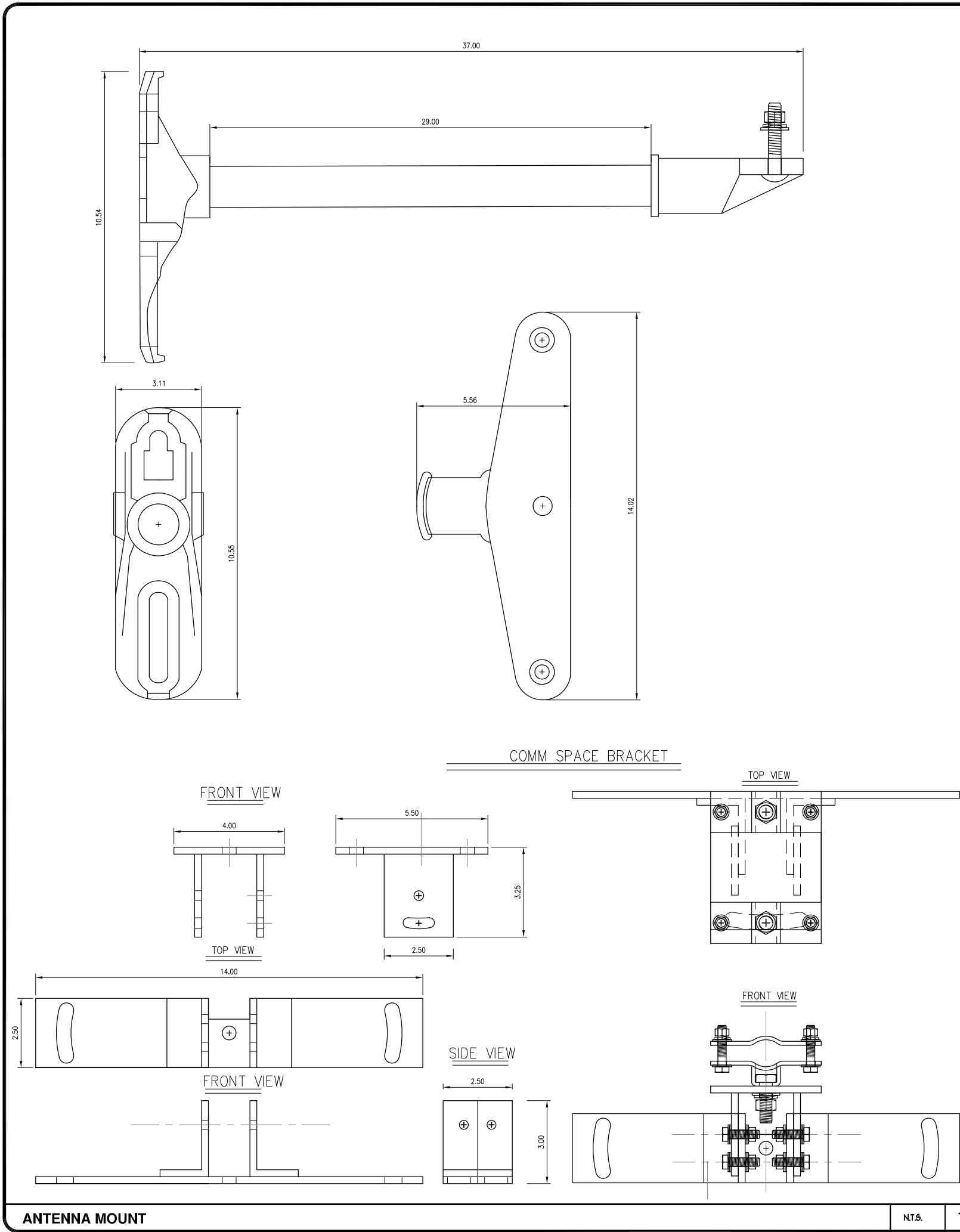
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1



AlphaCell
General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme Low	Extreme Low	Extreme Low
Heat Resistant:	Threaded insert	Threaded insert	Threaded insert
Hydrogen Emission:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC
Terminals:			

Specifications³

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2900	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.8	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range:	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 160°F)	(-40 to 160°F)	(-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:

1. Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

2. Runtime is calculated using a 25A DC constant current load.

3. Dimensions at top of battery.

4. See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

20250Vdc @ 4A	220	195	165	220	195	165	220	195	165	220	195	165
3 batteries:	508	453	396	329	295	249	236	206	163	166	135	144
4 batteries:	701	625	540	444	396	346	329	293	250	261	232	203
6 batteries:	1061	979	823	701	625	540	523	495	407	418	372	325
8 batteries:	1437	1338	1155	939	859	750	720	643	562	577	515	450
9 batteries:	1696	1599	1322	1101	1028	853	820	733	640	659	587	514

20250Vdc @ 13A	220	195	165	220	195	165	220	195	165	220	195	165
3 batteries:	149	132	115	119	106	92	101	89	77	87	78	69
4 batteries:	210	187	163	169	151	132	144	128	112	124	111	99
6 batteries:	339	301	264	275	245	214	236	209	183	204	182	165
8 batteries:	479	419	367	385	341	299	329	293	250	288	255	223
9 batteries:	533	479	419	440	391	342	377	335	294	329	293	254

20250Vdc @ 6A	220	195	165	220	195	165	220	195	165	220	195	165
3 batteries:	798	712	622	508	453	396	377	335	294	300	267	233
4 batteries:	1061	979	823	701	625	540	523	495	407	418	372	325
6 batteries:	1696	1599	1322	1101	1028	853	820	733	640	659	587	514
8 batteries:	2388	2197	178	149	138	1195	1122	1005	877	904	809	706
9 batteries:	2590	2395	202	1696	1599	1322	1223	1043	897	929	821	703

20250Vdc @ 13A	220	195	165	220	195	165	220	195	165	220	195	165
3 batteries:	242	215	188	196	174	151	166	148	125	144	129	107
4 batteries:	339	301	264	275	245	214	236	209	182	204	182	155
6 batteries:	533	479	419	440	391	340	377	335	290	329	293	252
8 batteries:	761	693	577	607	541	479	523	465	402	458	407	351
9 batteries:	843	753	658	692	617	538	597	531	462	523	465	402

*Above calculations based on an AC load with a .90 cable plant power factor.

For contact information visit www.alpha.com

The Alpha Group >

Canada Tel: +1 604 433 1476 Fax: +1 604 433 8938 Tel/Fax: +1 603 667 3042	Cyprus Tel: +357 25 375 675 Fax: +357 52 369 595	Germany Tel: +49 9122 758 89 9 Fax: +49 9122 79 889 24	Lithuania Tel: +370 5 210 5291 Fax: +370 5 210 6290	Asia Pacific P.R. China Tel: +852 2706 0663 Fax: +852 2189 7988	Latin & South America Contact USA office
USA Tel: +1 360 647 2960 Fax: +1 360 671 4936	Russia Tel: +7 495 515 9044 Fax: +7 495 516 1345	United Kingdom Tel: +44 1273 601110 Fax: +44 1273 653070			

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(049-257-10-6002) (05/09)

BATTERY SPECIFICATIONS

NTS.

2

REV: 0
DATE/BY: 02/06/2014
FXC
ISSUED FOR REVIEW

1
03/08/2014
FXC
ISSUED FOR FINAL

ENGINEER/CONSULTANT:
Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, LLC

STAMP:

SITE INFO:
SITE NAME: MON07
VERIZON MONTECITO-MON07
SITE ADDRESS: THOMAS BROS PAGE 987 GRID D-7
R.O.W. SOUTH SIDE OF BELLE VISTA DR
(ADJACENT TO 2395 BELLE VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.449106
LONG: -119.594733

SHEET TITLE:
DETAILS

DRAWING INFO:
DRAWN BY: FC

SHEET NUMBER:
D-2

NTS.

2

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD ON EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 7
SITE PLAN	A-1 - SHEET 2 OF 7
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 7
GRADING PLAN	A-3 - SHEET 4 OF 7
DETAILS	D-1 - SHEET 5 OF 7
DETAILS	D-2 - SHEET 6 OF 7
DETAILS	D-3 - SHEET 7 OF 7

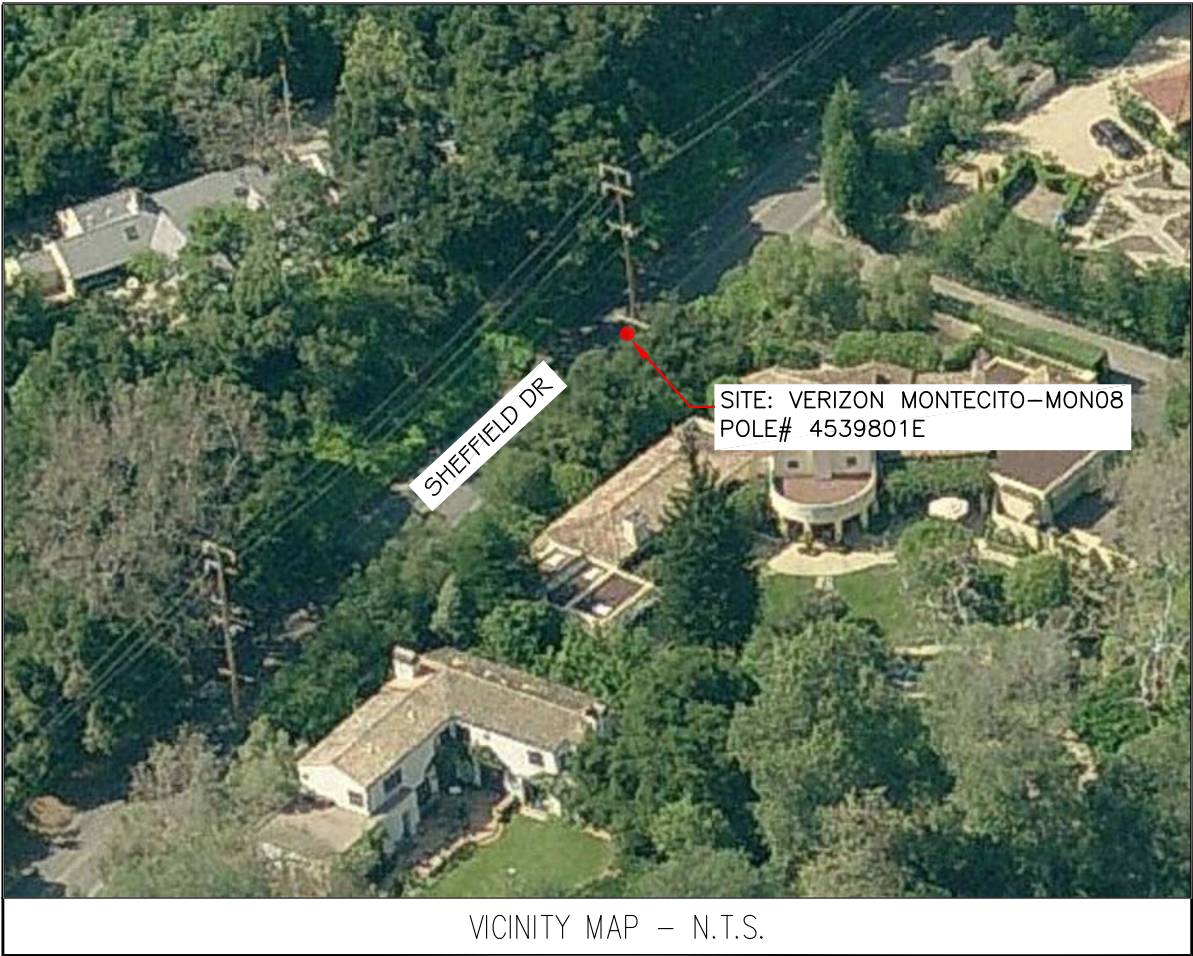
CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON08

R.O.W. EAST SIDE OF SHEFFIELD DR

(ADJACENT TO 336 SHEFFIELD DR)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF SHEFFIELD DR
(ADJACENT TO 336 SHEFFIELD DR)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

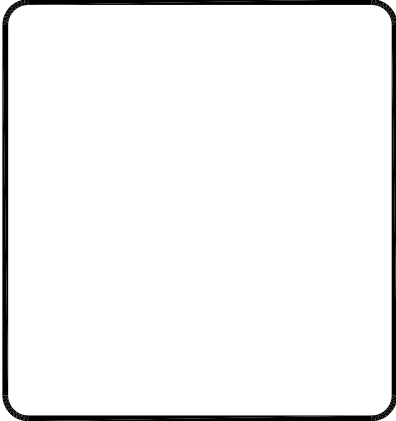
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON08
VERIZON MONTECITO-MON08

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. EAST SIDE OF SHEFFIELD DR
(ADJACENT TO 336 SHEFFIELD DR)
SANTA BARBARA, CA 93108
LAT: 34.42763
LONG: -119.608736

SHEET TITLE:

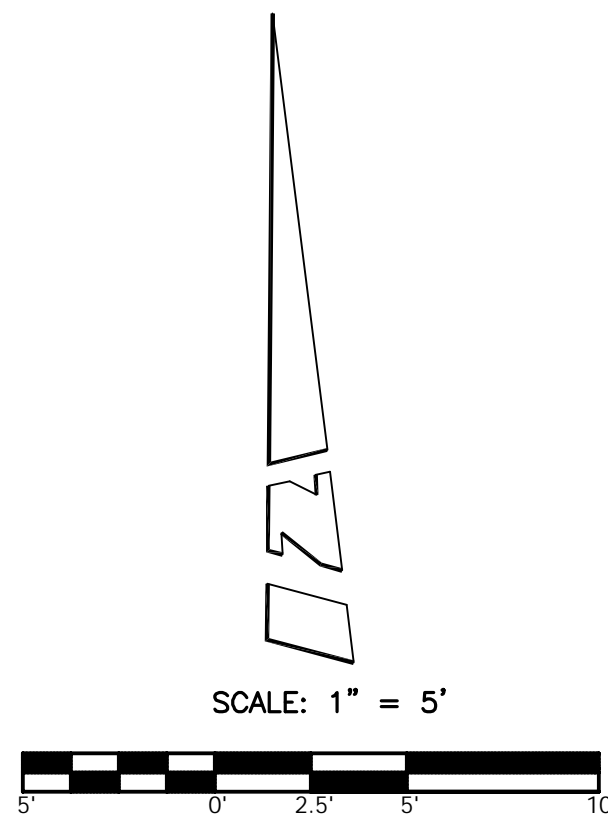
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



LEGEND:

- CLM COLUMN
DPL DRIP LINE
EOB EDGE OF BUSH
EP EDGE OF PAVEMENT
FD FOUND
GM GAS METER
IN INCHES
IP IRON PIPE
MBX MAIL BOX
MS MOW STRIP
NG NATURAL GROUND
OSFW OUTSIDE FACE OF WALL
RK ROCK
RKP ROCK PATH
TP TOP
TR TREE
UP UTILITY POLE
WM WATER METER
WTL WHITE TRAVEL LINE
WV WATER VALVE
- BLOCK WALL
CENTERLINE
FOUND MONUMENT
GAS METER
UTILITY POLE
WATER METER
WATER VALVE

A.P.N. 007-250-004

A.P.N. 005-550-003

COORDINATES:

LATITUDE 34°25'39.66" N
LONGITUDE 119°36'31.45" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE WESTERLY LINE OF SHEFFIELD DR. BEING SOUTH 41°12'18" WEST PER TRACT NO. 13637, M.B. 129/14-17, RECORDS OF SANTA BARBARA COUNTY.
(NOT SHOWN HEREON)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 116"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 116" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 118.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

AUGUST 06, 2013

SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	08/09/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



STAMP:



SITE INFO:

SITE NAME:

MON08
VERIZON MONTECITO-MON08

SITE ADDRESS:

R.O.W. EAST SIDE OF SHEFFIELD DR.
(ADJACENT TO 336 SHEFFIELD DR.)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

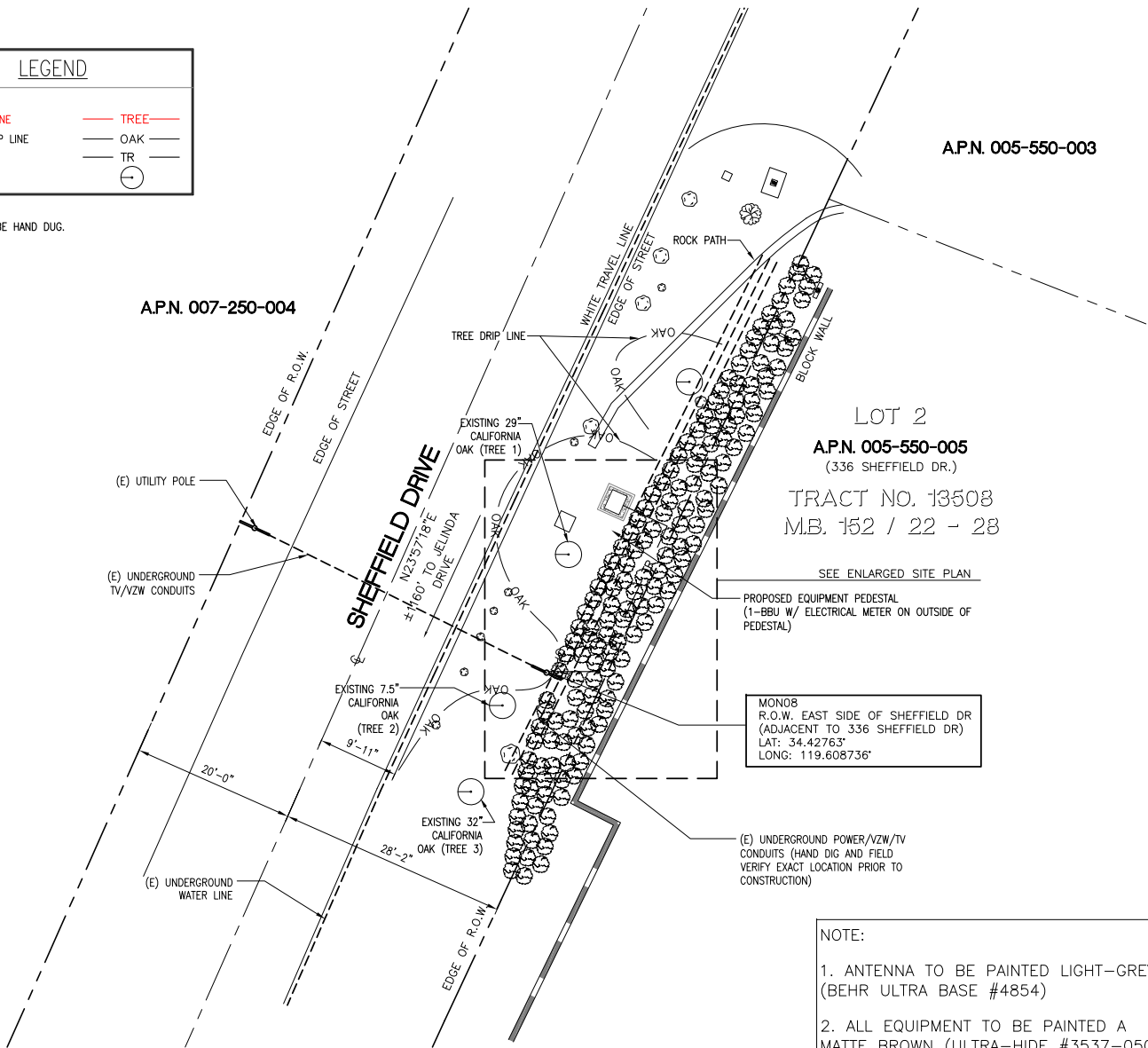
DWG. NAME:	DRAWN BY:	DATE:
MON08	MDL	08/09/13

SHEET NUMBER:

1 OF 1
C-1

LEGEND	
TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	

NOTE:
TRENCH TO BE HAND DUG.



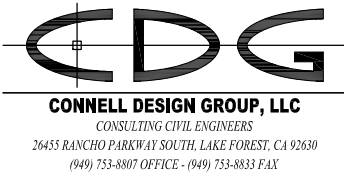
- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



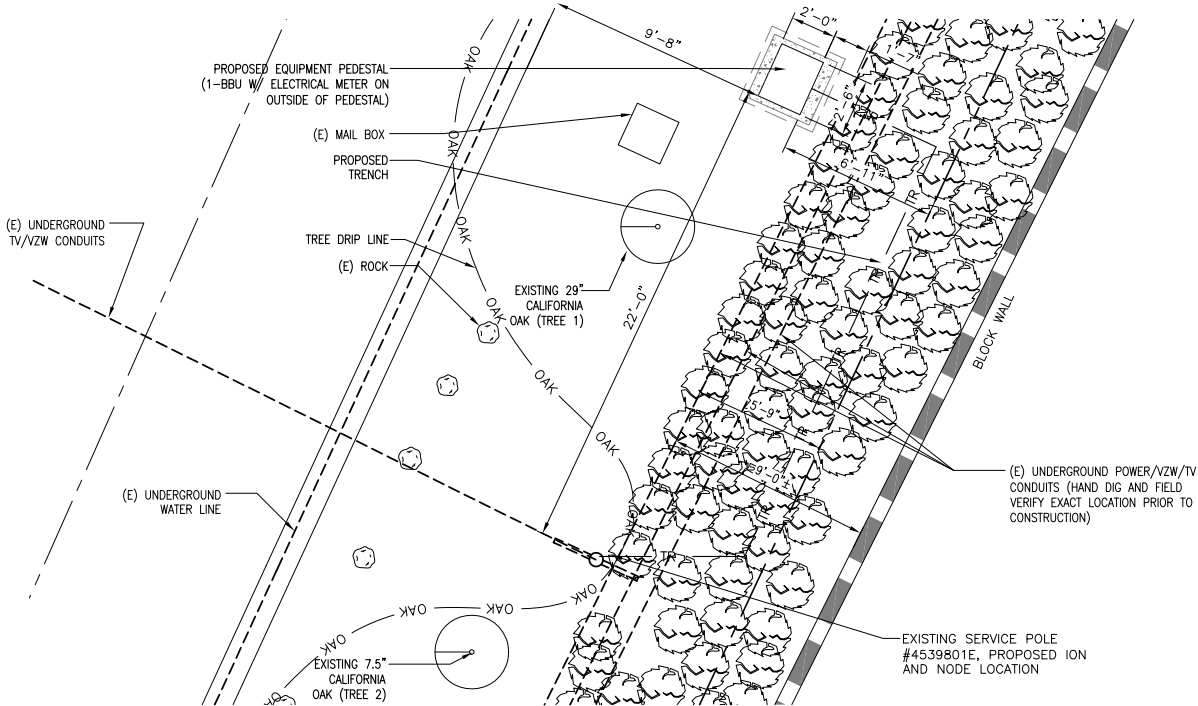
STAMP:

SITE PLAN

SCALE: 1"=10'-0" 0 5' 10' 1

EXISTING PHOTO

SCALE: N.T.S. 3

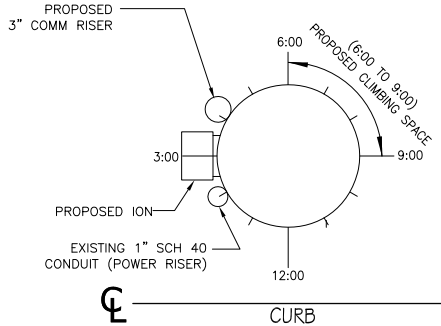


ENLARGED SITE PLAN

SCALE: 1/4"=1'-0" 0 2' 4' 2

RISER PROFILE

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
1-3" CROWN CASTLE RISER @ 4:00
1-1" POWER RISER @ 2:00



SCALE: N.T.S. 4

SITE INFO:

SITE NAME:
MON08
VERIZON MONTECITO-MON08
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. EAST SIDE OF SHEFFIELD DR
(ADJACENT TO 336 SHEFFIELD DR)
SANTA BARBARA, CA 93108
LAT: 34.42763
LONG: -119.608736

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

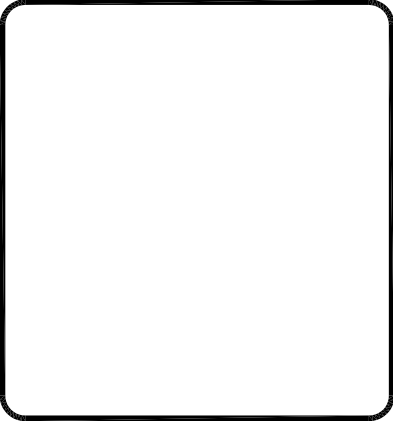
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

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VERIZON MONTECITO-MON08
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
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SANTA BARBARA, CA 93108
LAT: 34.42763
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SHEET TITLE:

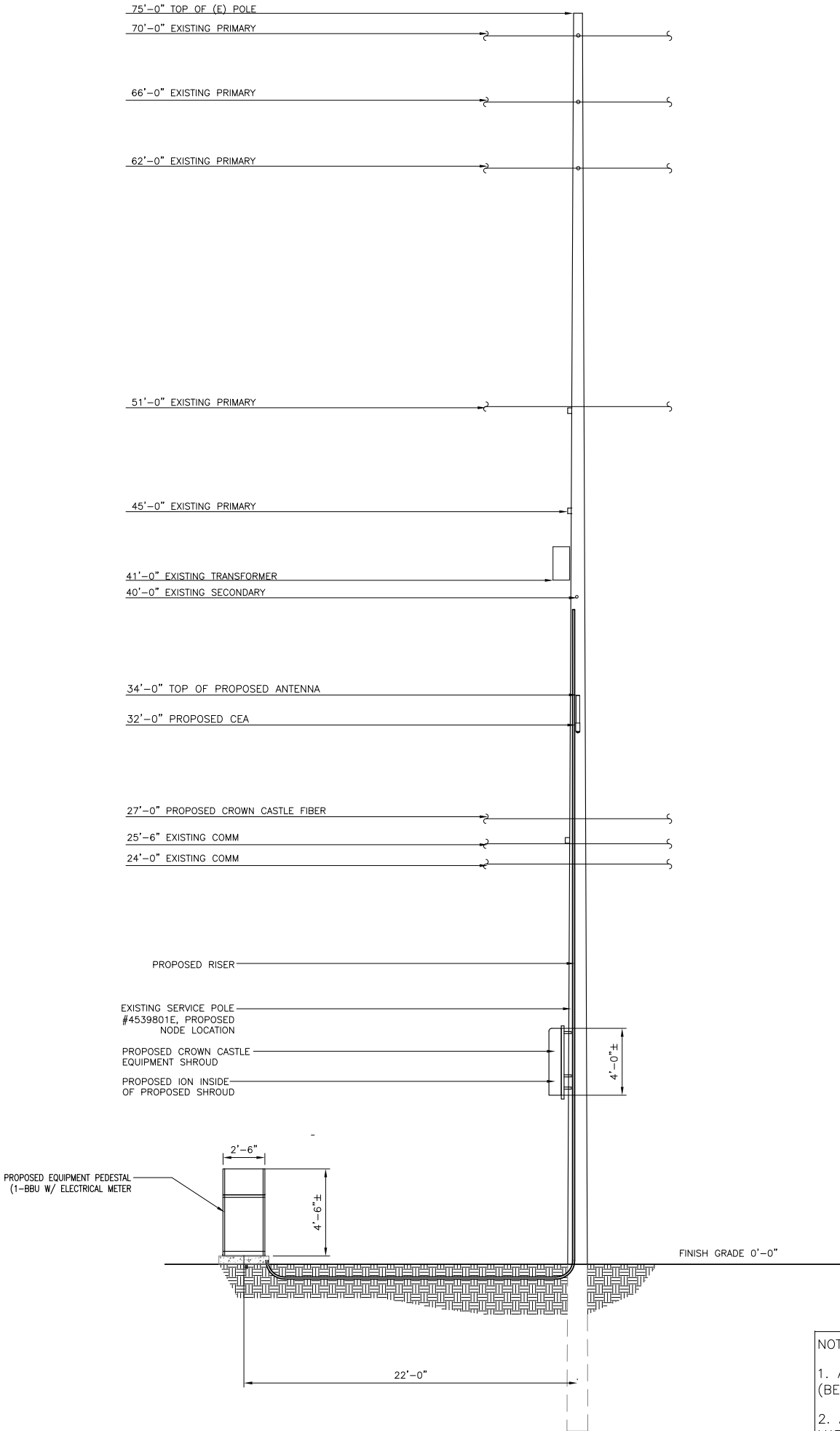
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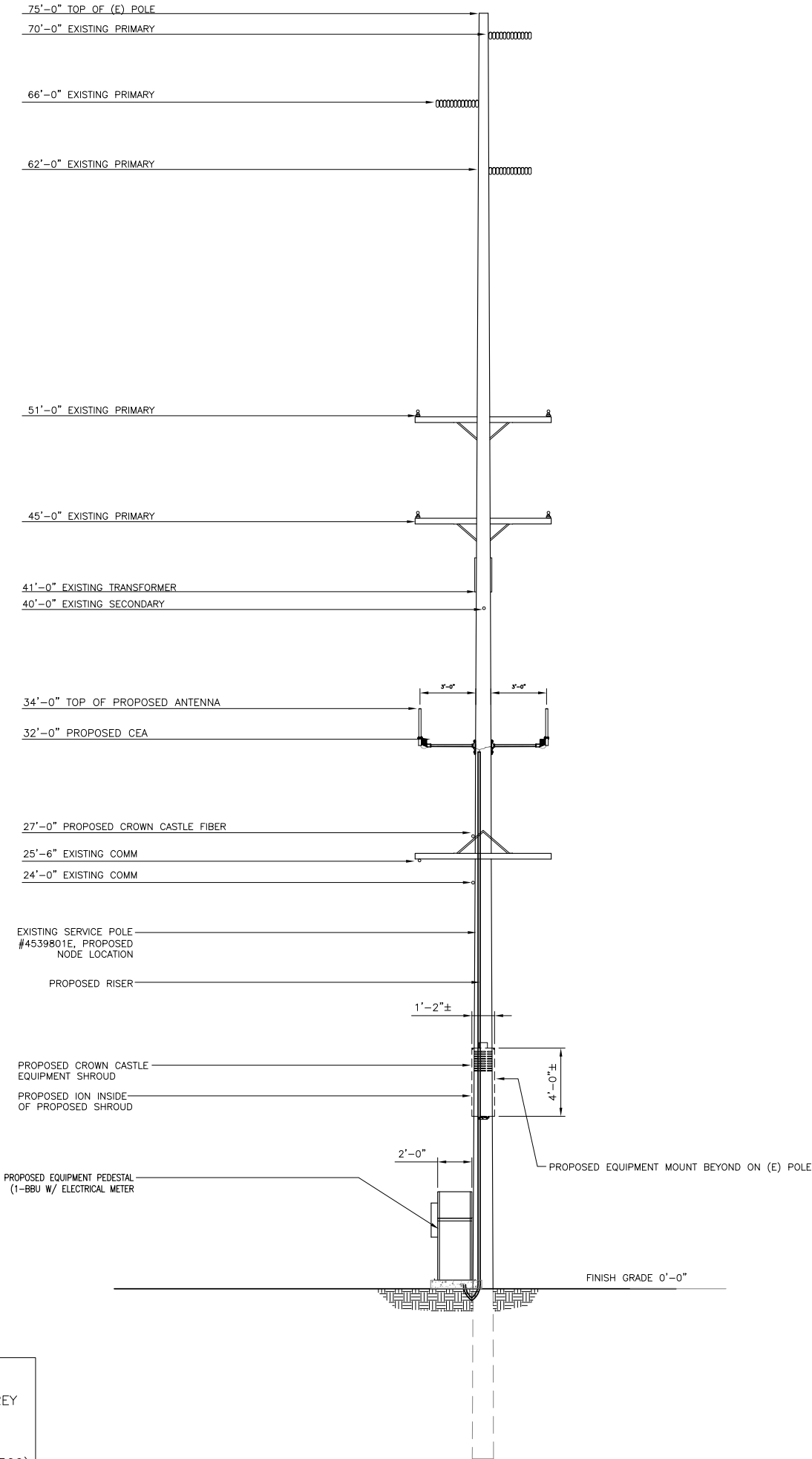
DRAWN BY:
FC

SHEET NUMBER:

A-2



NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



REV.	DATE/BY:	REVISION DESCRIPTION:
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2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

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VERIZON MONTECITO-MON08
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. EAST SIDE OF SHEFFIELD DR
(ADJACENT TO 336 SHEFFIELD DR)
SANTA BARBARA, CA 93108
LAT: 34.42763
LONG: -119.608736

SHEET TITLE:

**SITE PLAN, ENLARGED SITE
PLAN, EXISTING PHOTO AND
RISER PROFILE**

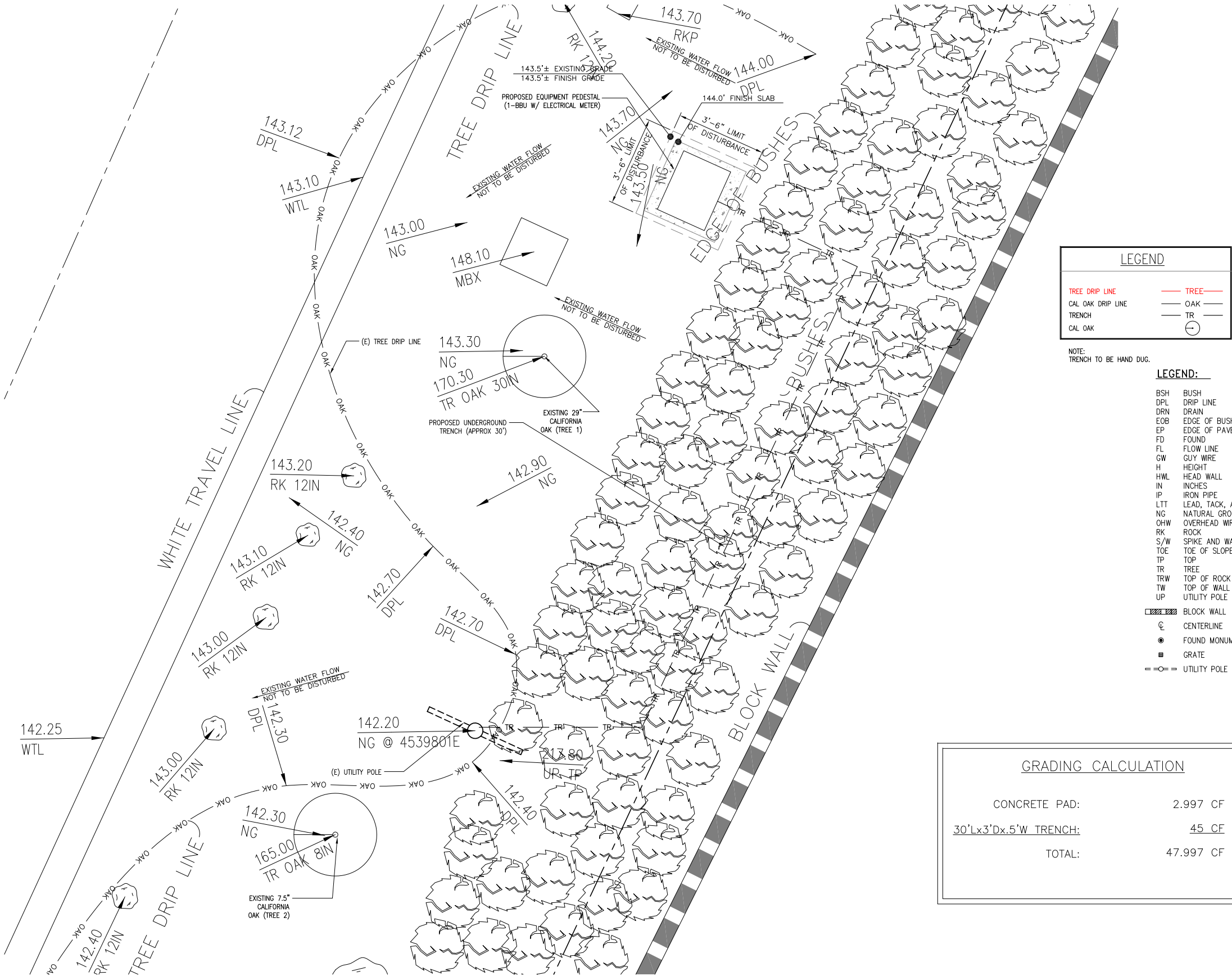
DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

SCALE:
N.T.S. 1

NOTE:
NO CUT AND FILL REQUIRED



Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 40/6.0 dBi

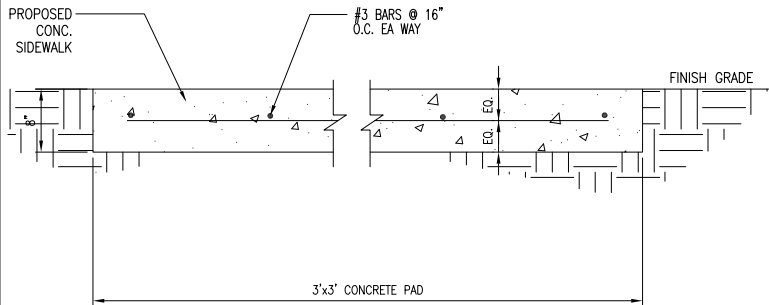
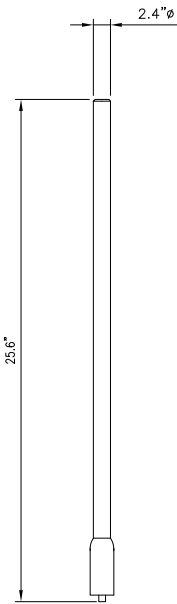
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		Uplink	698 to 716/776 to 787
		Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		Uplink	824 to 849
		Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO



ION-M7P/7P/85P/19P

Noise figure, dB		ICP3 optimized	+10 max.
		Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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Page 1, February 27, 2013

Company Confidential

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

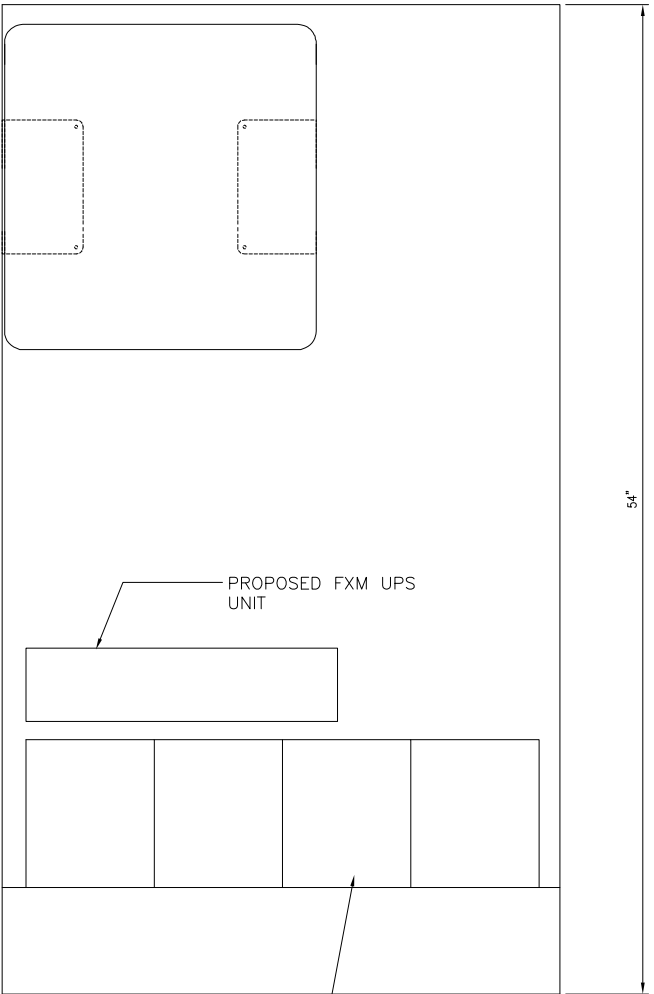
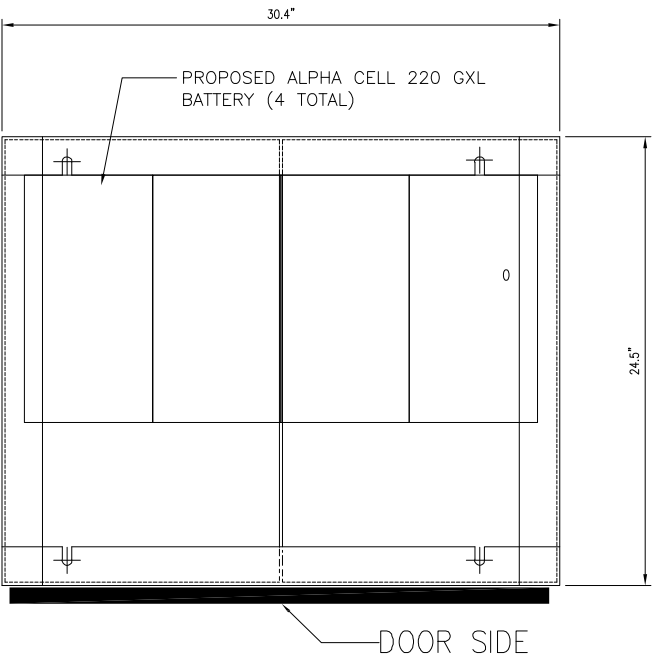
N.T.S.

4

EQUIPMENT PEDESTAL

N.T.S.

5



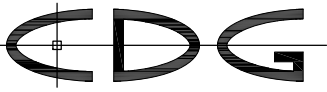
PROPOSED ALPHA CELL 220 GXL
BATTERY (4 TOTAL)

* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL &
COMPACTED TO 90% OR BETTER & REPLACE
LANDSCAPING IN KIND.

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON08 VERIZON MONTECITO-MON08
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID C3 R.O.W. EAST SIDE OF SHEFFIELD DR (ADJACENT TO 336 SHEFFIELD DR) SANTA BARBARA, CA 93108 LAT: 34.42763 LONG: -119.608736

SHEET TITLE:

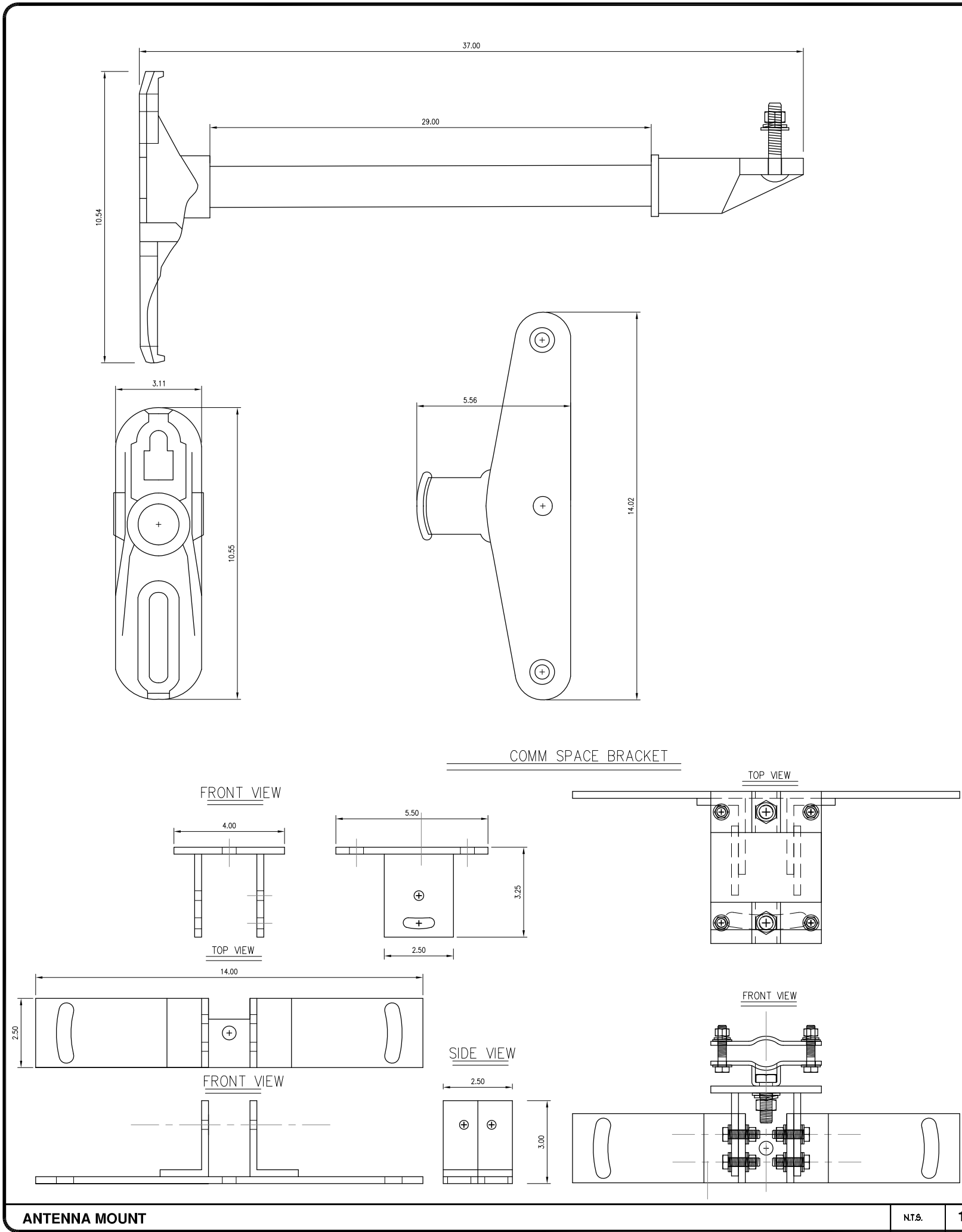
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1



AlphaCell
General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2900	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance @0Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.8	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 160°F)	(-40 to 160°F)	(-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:

¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

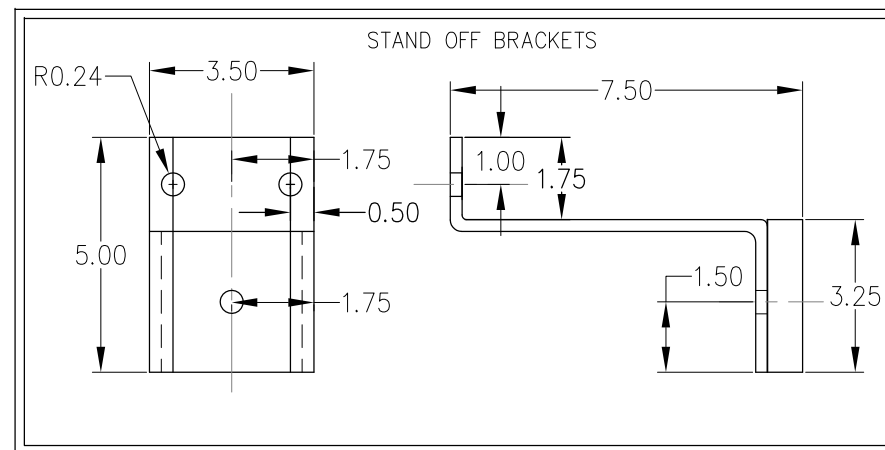
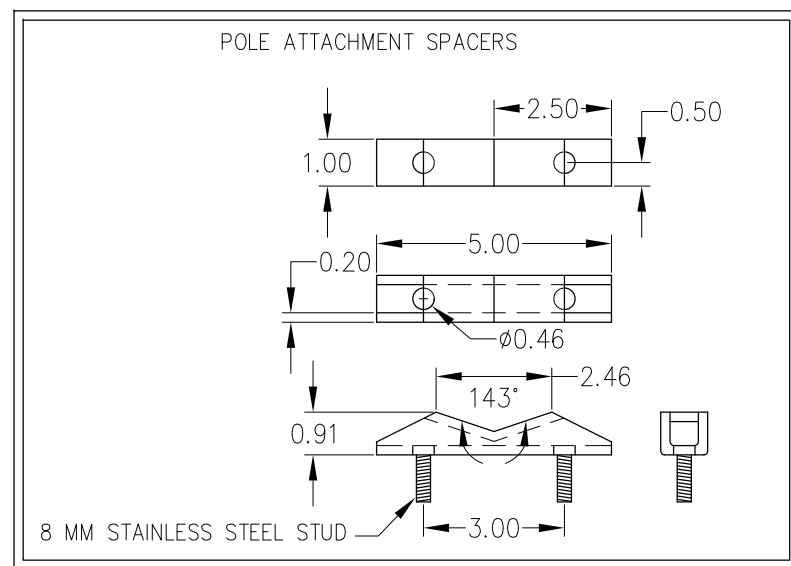
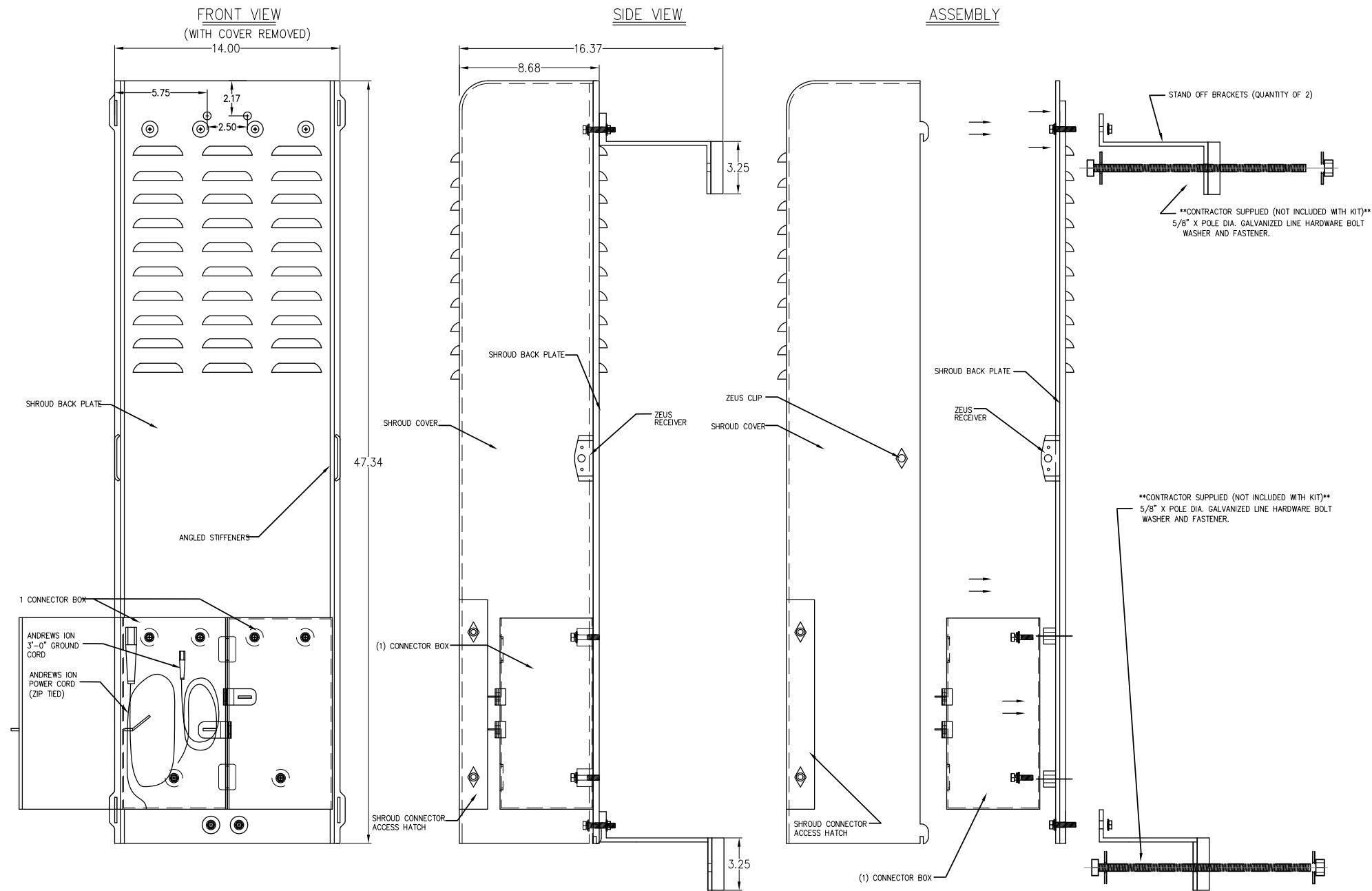
² Runtime is calculated using a 25A DC constant current load.

³ Dimensions at top of battery.

⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

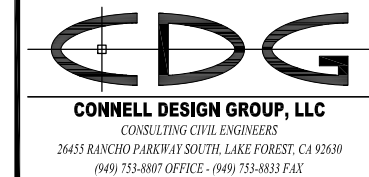
Model	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A	40A	42A	44A	46A	48A	50A	52A	54A	56A	58A	60A	62A	64A	66A	68A	70A	72A	74A	76A	78A	80A	82A	84A	86A	88A	90A	92A	94A	96A	98A	100A	102A	104A	106A	108A	110A	112A	114A	116A	118A	120A	122A	124A	126A	128A	130A	132A	134A	136A	138A	140A	142A	144A	146A	148A	150A	152A	154A	156A	158A	160A	162A	164A	166A	168A	170A	172A	174A	176A	178A	180A	182A	184A	186A	188A	190A	192A	194A	196A	198A	200A	202A	204A	206A	208A	210A	212A	214A	216A	218A	220A	222A	224A	226A	228A	230A	232A	234A	236A	238A	240A	242A	244A	246A	248A	250A	252A	254A	256A	258A	260A	262A	264A	266A	268A	270A	272A	274A	276A	278A	280A	282A	284A	286A	288A	290A	292A	294A	296A	298A	300A	302A	304A	306A	308A	310A	312A	314A	316A	318A	320A	322A	324A	326A	328A	330A	332A	334A	336A	338A	340A	342A	344A	346A	348A	350A	352A	354A	356A	358A	360A	362A	364A	366A	368A	370A	372A	374A	376A	378A	380A	382A	384A	386A	388A	390A	392A	394A	396A	398A	400A	402A	404A	406A	408A	410A	412A	414A	416A	418A	420A	422A	424A	426A	428A	430A	432A	434A	436A	438A	440A	442A	444A	446A	448A	450A	452A	454A	456A	458A	460A	462A	464A	466A	468A	470A	472A	474A	476A	478A	480A	482A	484A	486A	488A	490A	492A	494A	496A	498A	500A	502A	504A	506A	508A	510A	512A	514A	516A	518A	520A	522A	524A	526A	528A	530A	532A	534A	536A	538A	540A	542A	544A	546A	548A	550A	552A	554A	556A	558A	560A	562A	564A	566A	568A	570A	572A	574A	576A	578A	580A	582A	584A	586A	588A	590A	592A	594A	596A	598A	600A	602A	604A	606A	608A	610A	612A	614A	616A	618A	620A	622A	624A	626A	628A	630A	632A	634A	636A	638A	640A	642A	644A	646A	648A	650A	652A	654A	656A	658A	660A	662A	664A	666A	668A	670A	672A	674A	676A	678A	680A	682A	684A	686A	688A	690A	692A	694A	696A	698A	700A	702A	704A	706A	708A	710A	712A	714A	716A	718A	720A	722A	724A	726A	728A	730A	732A	734A	736A	738A	740A	742A	744A	746A	748A	750A	752A	754A	756A	758A	760A	762A	764A	766A	768A	770A	772A	774A	776A	778A	780A	782A	784A	786A	788A	790A	792A	794A	796A	798A	800A	802A	804A	806A	808A	810A	812A	814A	816A	818A	820A	822A	824A	826A	828A	830A	832A	834A	836A	838A	840A	842A	844A	846A	848A	850A	852A	854A	856A	858A	860A	862A	864A	866A	868A	870A	872A	874A	876A	878A	880A	882A	884A	886A	888A	890A	892A	894A	896A	898A	900A	902A	904A	906A	908A	910A	912A	914A	916A	918A	920A	922A	924A	926A	928A	930A	932A	934A	936A	938A	940A	942A	944A	946A	948A	950A	952A	954A	956A	958A	960A	962A	964A	966A	968A	970A	972A	974A	976A	978A	980A	982A	984A	986A	988A	990A	992A	994A	996A	998A	1000A	1002A	1004A	1006A	1008A	1010A	1012A	1014A	1016A	1018A	1020A	1022A	1024A	1026A	1028A	1030A	1032A	1034A	1036A	1038A	1040A	1042A	1044A	1046A	1048A	1050A	1052A	1054A	1056A	1058A	1060A	1062A	1064A	1066A	1068A	1070A	1072A	1074A	1076A	1078A	1080A	1082A	1084A	1086A	1088A	1090A	1092A	1094A	1096A	1098A	1100A	1102A	1104A	1106A	1108A	1110A	1112A	1114A	1116A	1118A	1120A	1122A	1124A	1126A	1128A	1130A	1132A	1134A	1136A	1138A	1140A	1142A	1144A	1146A	1148A	1150A	1152A	1154A	1156A	1158A	1160A	1162A	1164A	1166A	1168A	1170A	1172A	1174A	1176A	1178A	1180A	1182A	1184A	1186A	1188A	1190A	1192A	1194A	1196A	1198A	1200A	1202A	1204A	1206A	1208A	1210A	1212A	1214A	1216A	1218A	1220A	1222A	1224A	1226A	1228A	1230A	1232A	1234A	1236A	1238A	1240A	1242A	1244A	1246A	1248A	1250A	1252A	1254A	1256A	1258A	1260A	1262A	1264A	1266A	1268A	1270A	1272A	1274A	1276A	1278A	1280A	1282A	1284A	1286A	1288A	1290A	1292A	1294A	1296A	1298A	1300A	1302A	1304A	1306A	1308A	1310A	1312A	1314A	1316A	1318A	1320A	1322A	1324A	1326A	1328A	1330A	1332A	1334A	1336A	1338A	1340A	1342A	1344A	1346A	1348A	1350A	1352A	1354A	1356A	1358A	1360A	1362A	1364A	1366A	1368A	1370A	1372A	1374A	1376A	1378A	1380A	1382A	1384A	1386A	1388A	1390A	1392A	1394A	1396A	1398A	1400A	1402A	1404A	1406A	1408A	1410A	1412A	1414A	1416A	1418A	1420A	1422A	1424A	1426A	1428A	1430A	1432A	1434A	1436A	1438A	1440A	1442A	1444A	1446A	1448A	1450A	1452A	1454A	1456A	1458A	1460A	1462A	1464A	1466A	1468A	1470A	1472A	1474A	1476A	1478A	1480A	1482A	1484A	1486A	1488A	1490A	1492A	1494A	1496A	1498A	1500A	1502A	1504A	1506A	1508A	1510A	1512A	1514A	1516A	1518A	1520A	1522A	1524A	1526A	1528A	1530A	1532A	1534A	1536A	1538A	1540A	1542A	1544A	1546A	1548A	1550A	1552A	1554A	1556A	1558A	1560A	1562A	1564A	1566A	1568A	1570A	1572A	1574A	1576A	1578A	1580A	1582A	1584A	1586A	1588A	1590A	1592A	1594A	1596A	1598A	1600A	1602A	1604A	1606A	1608A	1610A	1612A	1614A	1616A	1618A	1620A	1622A	1624A	1626A	1628A	1630A	1632A	1634A	1636A	1638A	1640A	1642A	1644A	1646A	1648A	1650A	1652A	1654A	1656A	1658A	1660A	1662A	1664A	1666A	1668A	1670A	1672A	1674A	1676A	1678A	1680A	1682A	1684A	1686A	1688A	1690A	1692A	1694A	1696A	1698A	1700A	1702A	1704A	1706A	1708A	1710A	1712A	1714A	1716A	1718A	1720A	1722A	1724A	1726A	1728A	1730A	1732A	1734A	1736A	1738A	1740A	1742A	1744A	1746A	1748A	1750A	1752A	1754A	1756A	1758A	1760A	1762A	1764A	1766A	1768A	1770A	1772A	1774A	1776A	1778A	1780A	1782A	1784A	1786A	1788A	1790A	1792A	1794A	1796A	1798A	1800A	1802A	1804A	1806A	1808A	1810A	1812A	1814A	1816A	1818A	1820A	1822A	1824A	1826A	1828A	1830A	1832A	1834A	1836A	1838A	1840A	1842A	1844A	1846A	1848A	1850A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REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2013	ISSUED FOR REVIEW
1	SA 03/19/2013	ISSUED FOR APPROVAL
2	SA 11/05/2013	ISSUED FOR APPROVAL
3	SA 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

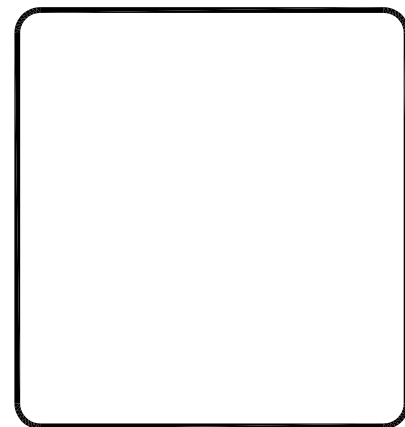
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON08
VERIZON MONTECITO-MON08
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. EAST SIDE OF SHEFFIELD DR
(ADJACENT TO 336 SHEFFIELD DR)
SANTA BARBARA, CA 93108
LAT: 34.42763
LONG: -119.608736

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE. SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POTHOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POTHOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD ON EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 7
SITE PLAN	A-1 - SHEET 2 OF 7
EXISTING ELEVATIONS	A-2 - SHEET 3 OF 7
GRADING PLAN	A-3 - SHEET 4 OF 7
DETAILS	D-1 - SHEET 5 OF 7
DETAILS	D-2 - SHEET 6 OF 7
DETAILS	D-3 - SHEET 7 OF 7

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON09

R.O.W. NORTH SIDE OF JAMESON LN.

(ADJACENT TO 1790 N JAMESON LN)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. NORTH SIDE OF JAMESON LN.
(ADJACENT TO 1790 N JAMESON LN)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 11/05/2013	ISSUED FOR FINAL
2	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

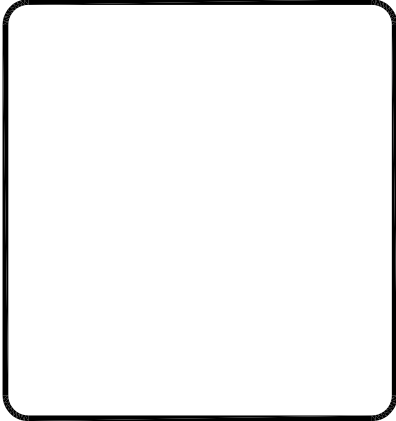
Civil Engineer



CLIENT:



STAMP:



SITE INFO:	
SITE NAME:	MON09 VERIZON MONTECITO-MON09
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID A3 R.O.W. NORTH SIDE OF JAMESON LN. (ADJACENT TO 1790 N JAMESON LN) SANTA BARBARA, CA 93108 LAT: 34.42149 LONG: -119.61899

SHEET TITLE:

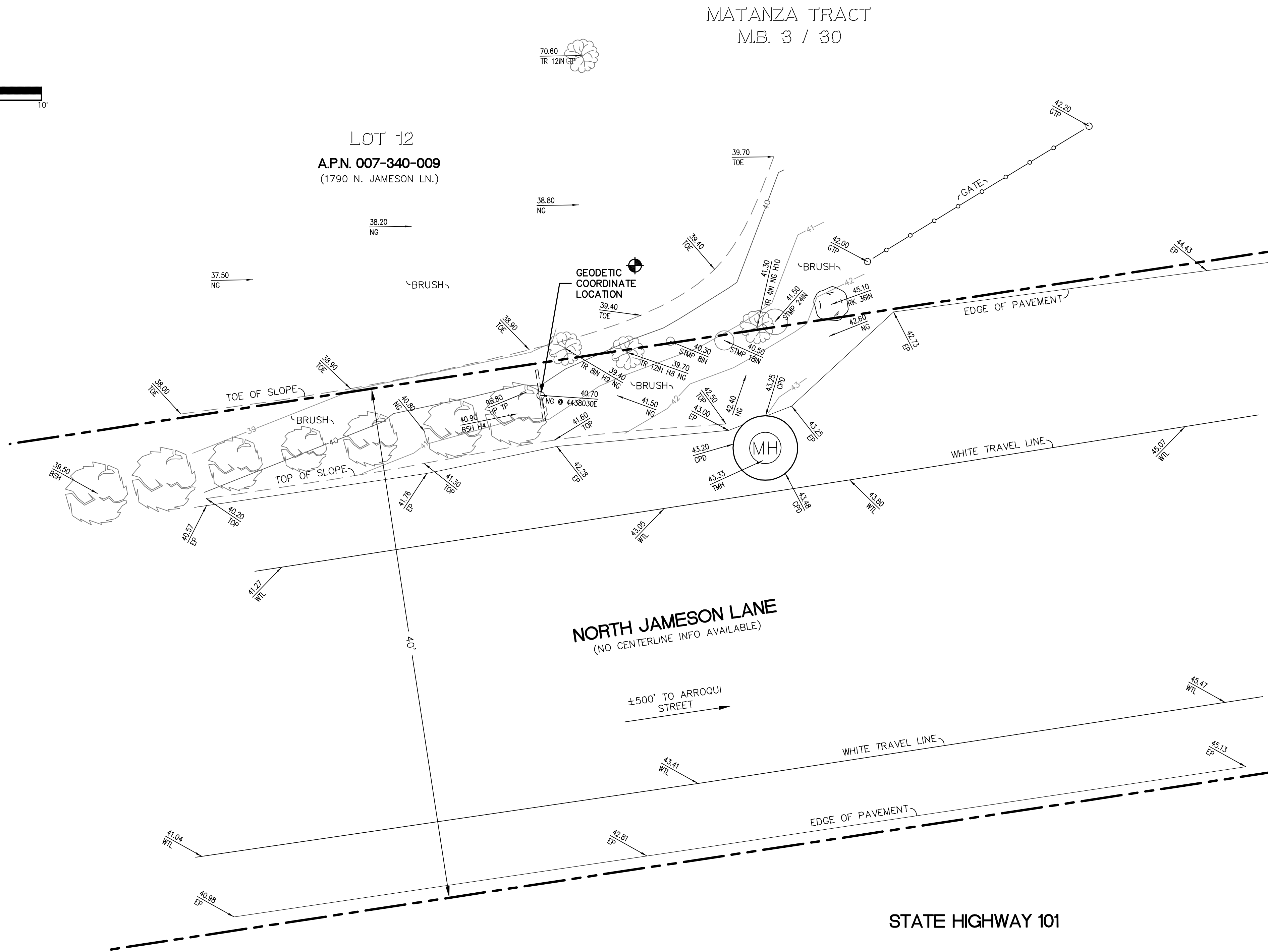
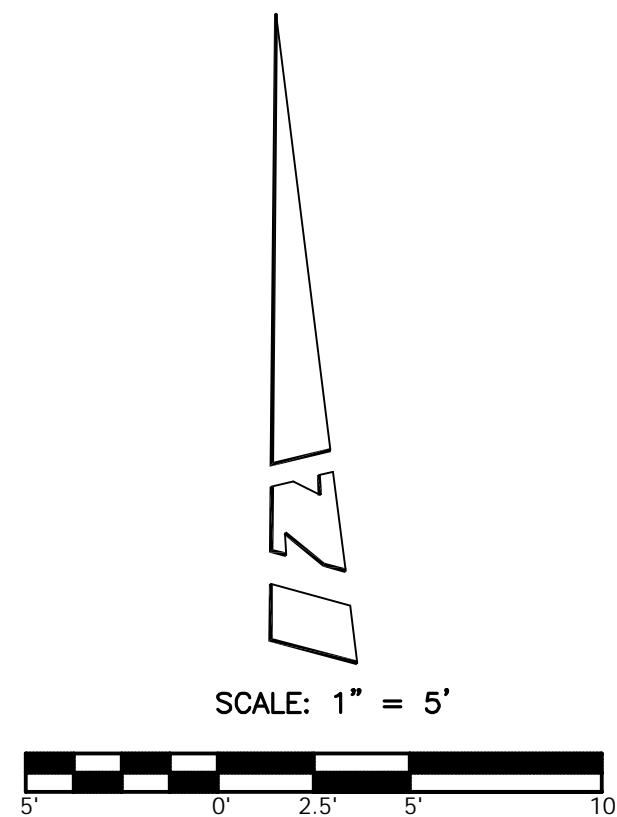
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



LEGEND:

BSH BUSH
CDISK COPPER DISK
C-NL CONCRETE NAIL
CPD CONCRETE PAD
EP EDGE OF PAVEMENT
FD FOUND
GTP GATE POST
H HEIGHT
IN INCHES
IP IRON PIPE
LTT LEAD, TACK, AND TAG
N/T NAIL AND TAG
NG NATURAL GROUND
PK PK NAIL
RBR REBAR
RK ROCK
STMP STUMP
TMH TELCO MANHOLE
TOE TOE OF SLOPE
TOP TOP OF SLOPE
TP TOP
TR TREE
UP UTILITY POLE
WTL WHITE TRAVEL LINE
CL CENTERLINE
● FOUND MONUMENT
⊙ MANHOLE
==○== UTILITY POLE

COORDINATES:

LATITUDE 34°25'17.31" N
LONGITUDE 119°37'08.35" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE SOUTHERLY LINE OF PARCEL 1 BEING NORTH 86°39'11" WEST PER PARCEL MAP NO. 14,688, P.M.B. 62/45-52, RECORDS OF SANTA BARBARA COUNTY.
(NOT SHOWN HEREON)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 37"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 37" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 39.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

AUGUST 01, 2013

SURVEYORS NOTE:

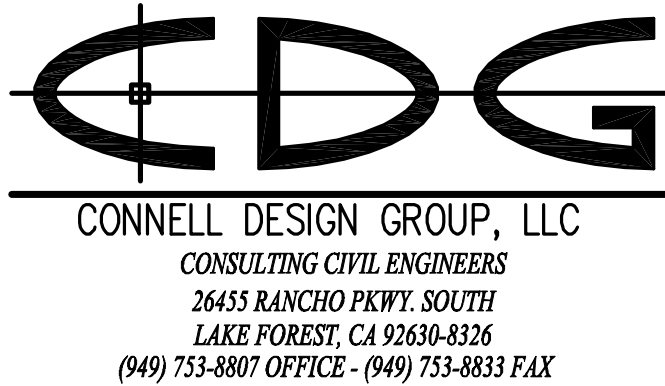
THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	08/08/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



STAMP:



SITE INFO:

SITE NAME:
MON09
VERIZON MONTECITO-MON09

SITE ADDRESS:
R.O.W. NORTH SIDE OF N. JAMESON LN
(ADJACENT TO 1790 N. JAMESON LN)
SANTA BARBARA, CA 93108

SHEET TITLE:

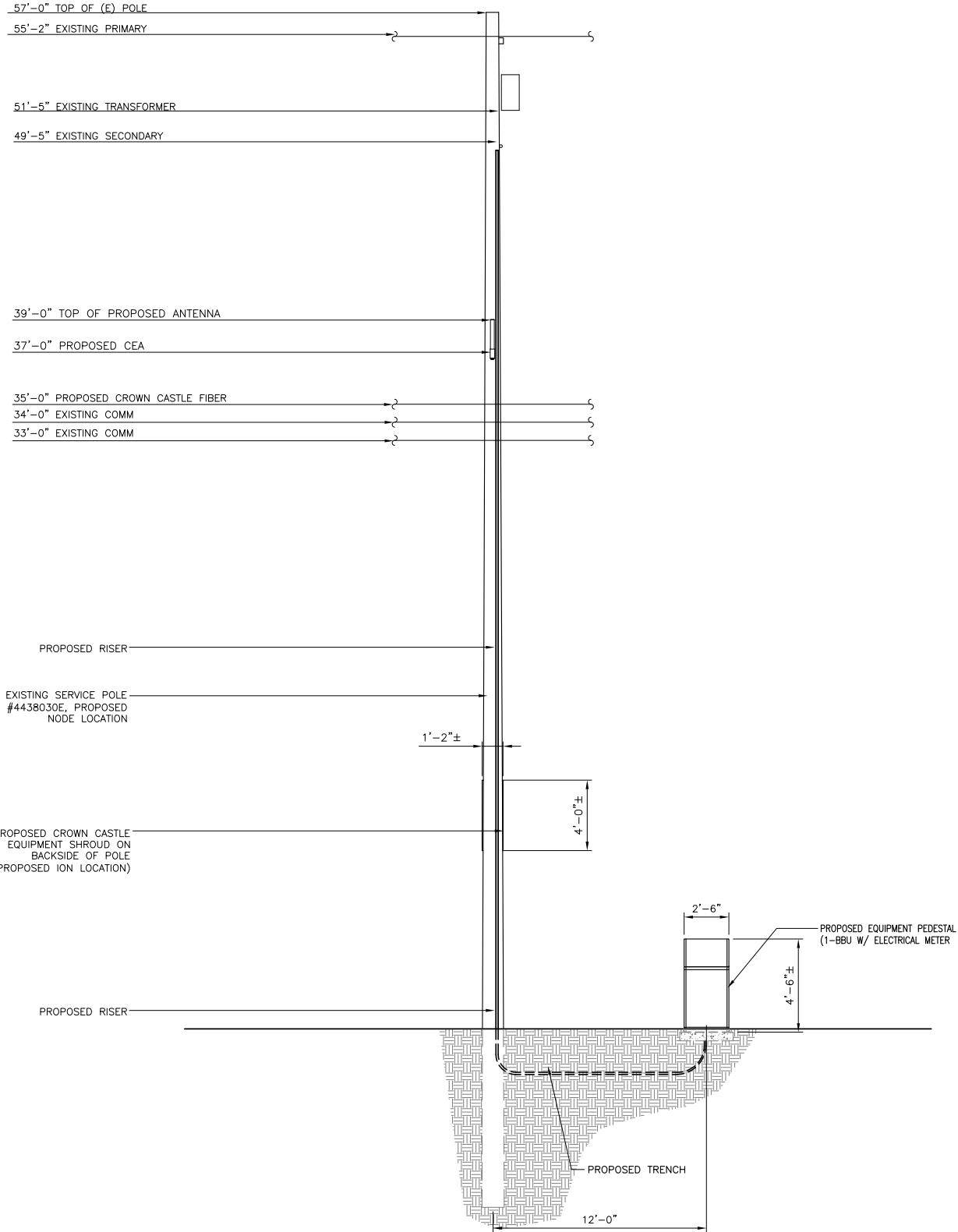
TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON09	MDL	08/08/13

SHEET NUMBER:

1 OF 1
C-1

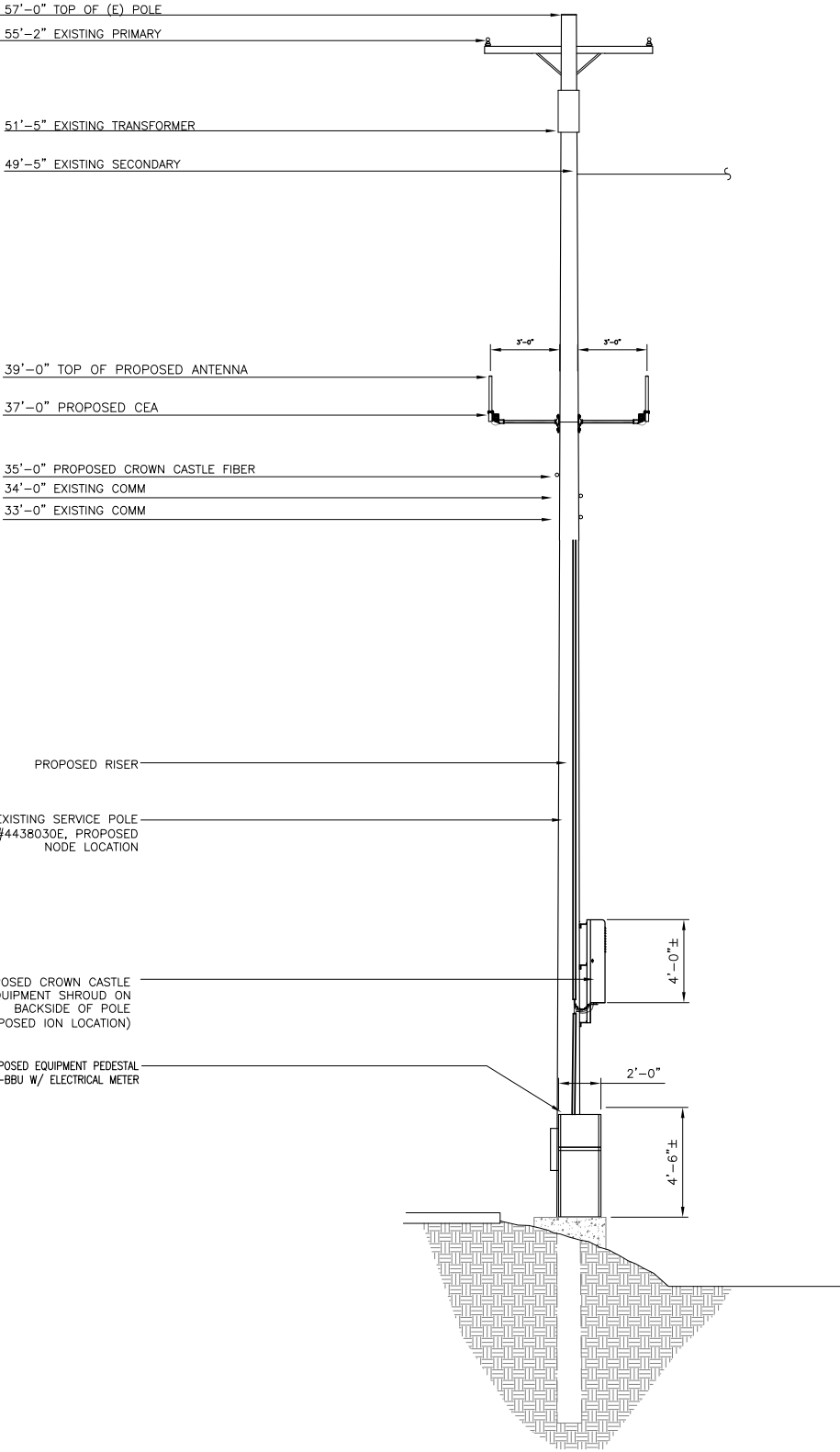


PROPOSED ELEVATION LOOKING NORTH

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



1



PROPOSED ELEVATION LOOKING WEST

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



2

- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
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2	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

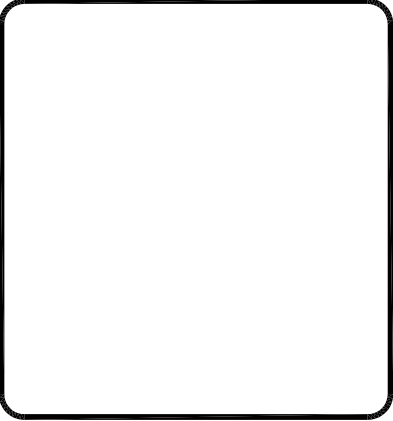
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON09
VERIZON MONTECITO-MON09
SITE ADDRESS: THOMAS BROS PAGE 997 GRID A3
R.O.W. NORTH SIDE OF JAMESON LN.
(ADJACENT TO 1790 N JAMESON LN)
SANTA BARBARA, CA 93108
LAT: 34.42149
LONG: -119.61899

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2

LEGEND	
TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	

NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION	
CONCRETE PAD:	2.997 CF
12'Lx3'Dx.5'W TRENCH:	18 CF
TOTAL:	20.997 CF

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer



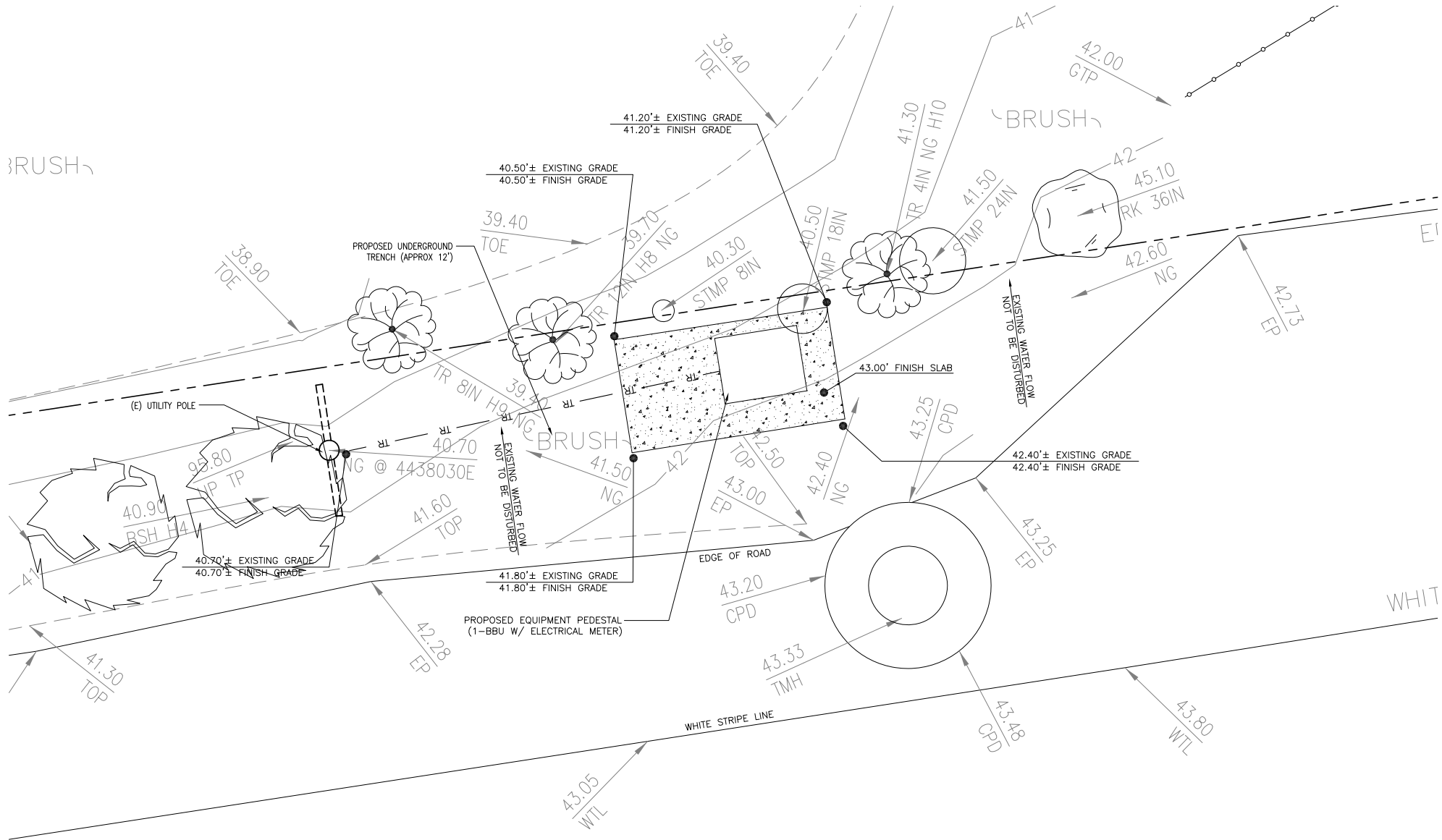
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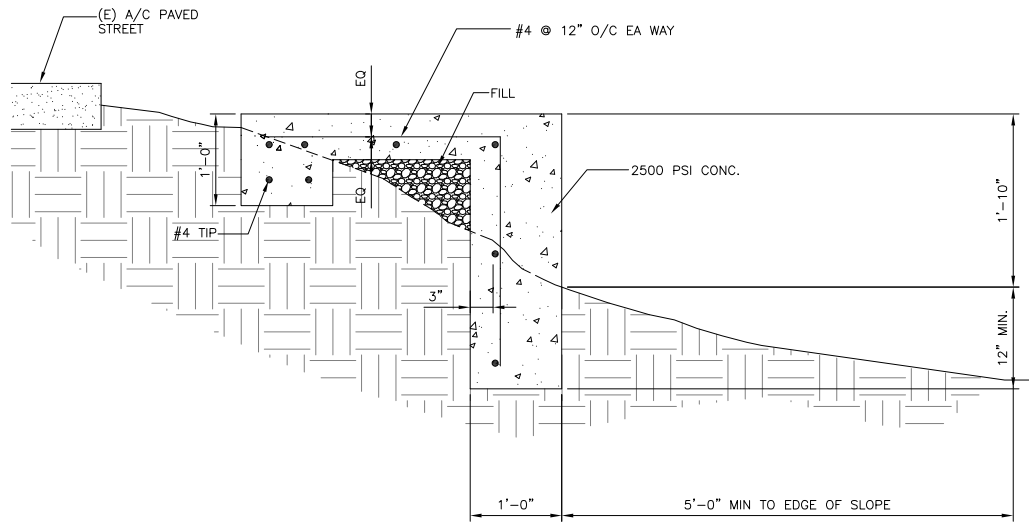


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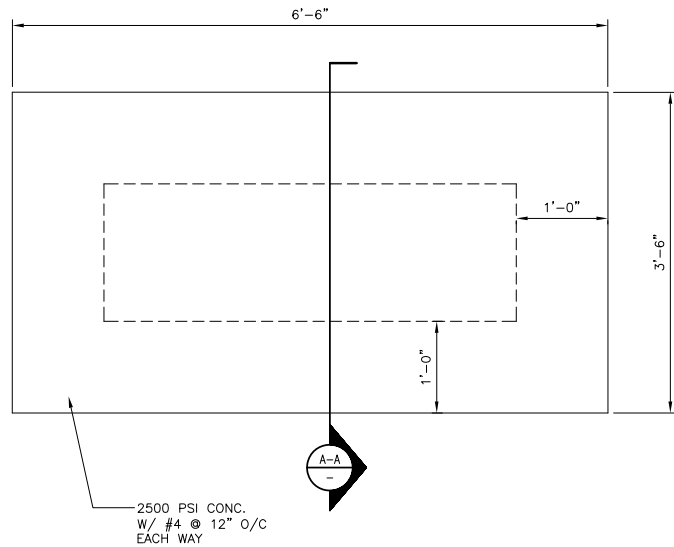
LEGEND:

BSH	BUSH
DPL	DRIP LINE
DRN	DRAIN
EOB	EDGE OF BUSH
EP	EDGE OF PAVEMENT
FD	FOUND
FL	FLOW LINE
GW	GUY WIRE
H	HEIGHT
HWL	HEAD WALL
IN	INCHES
IP	IRON PIPE
LTT	LEAD, TACK, AND TAG
NG	NATURAL GROUND
OHW	OVERHEAD WIRE
RK	ROCK
S/W	SPIKE AND WASHER
TOE	TOE OF SLOPE
TP	TOP
TR	TREE
TRW	TOP OF ROCK WALL
TW	TOP OF WALL
UP	UTILITY POLE
█	BLOCK WALL
⊙	CENTERLINE
●	FOUND MONUMENT
■	GRATE
—○—	UTILITY POLE





SECTION A-A



CONCRETE PAD

N.T.S.

2

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	
Uplink	698 to 716/776 to 787
Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	
Uplink	824 to 849
Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO

1900 MHz

Frequency range, MHz	
Uplink	1850 to 1915
Downlink	1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



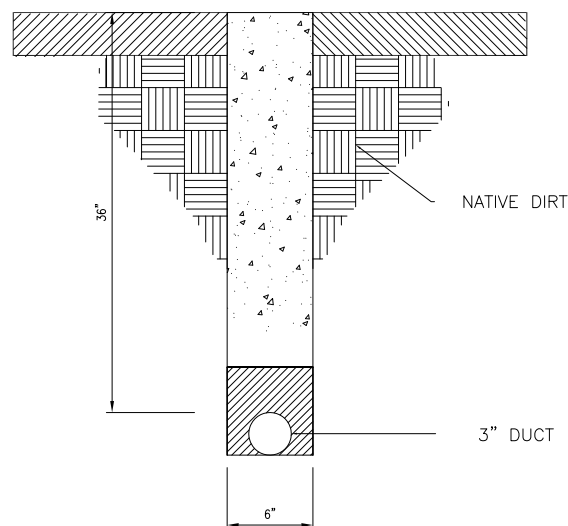
ION-M7P/7P/85P/19P

Noise figure, dB	
ICP3 optimized	+10 max.
Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	---------------------------------------

Weight, kg (lb)	40 (88.2)
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* TRENCH TO BE BACK FILL WITH NATIVE MATERIAL & COMPACTED TO 90% OR BETTER & REPLACE LANDSCAPING IN KIND.

ION-M7P/7P/85P/19P

N.T.S.

1

TRENCH

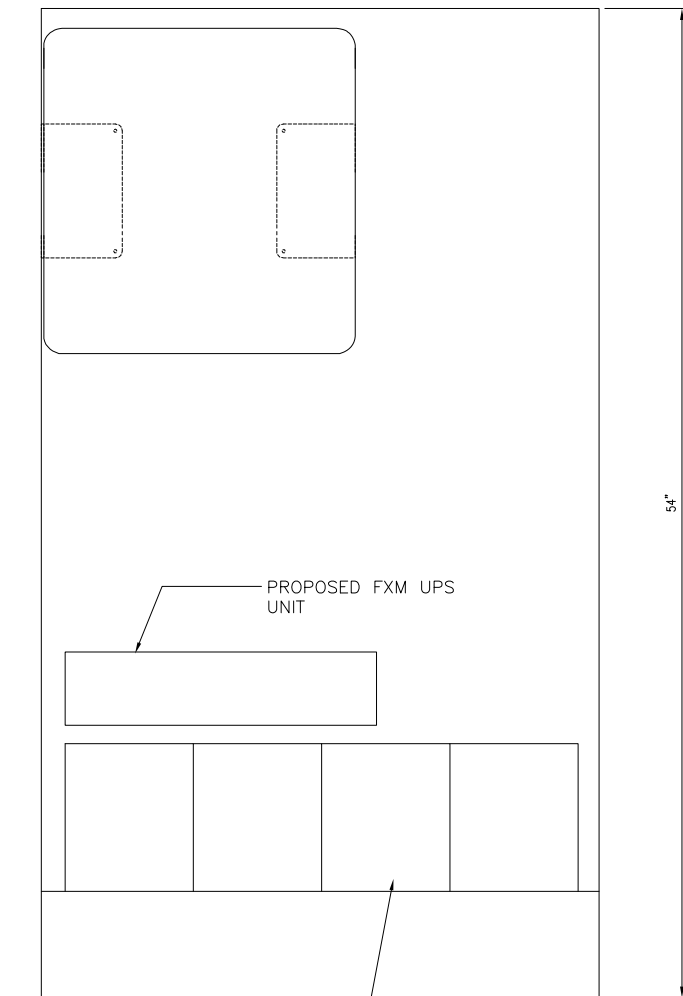
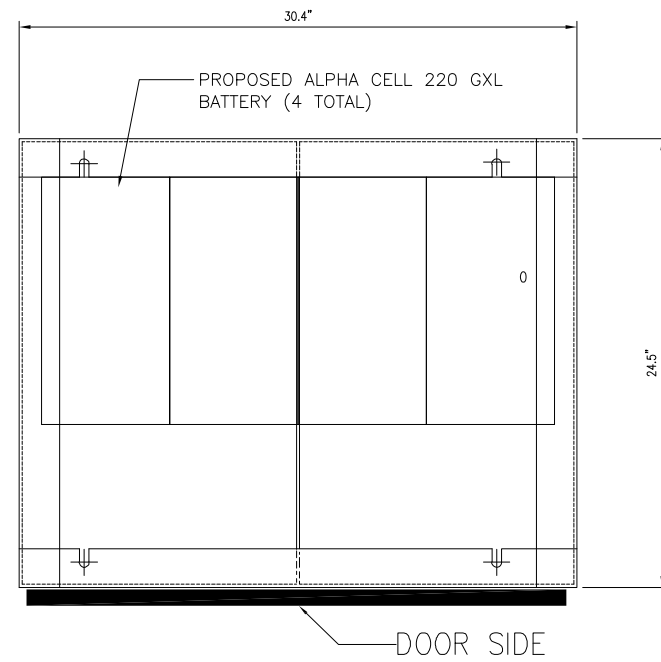
N.T.S.

3

EQUIPMENT PEDESTAL

N.T.S.

4

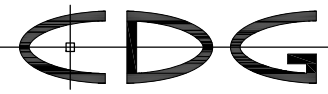


PROPOSED ALPHA CELL 220 GXL
BATTERY (4 TOTAL)

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 11/05/2013	ISSUED FOR FINAL
2	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



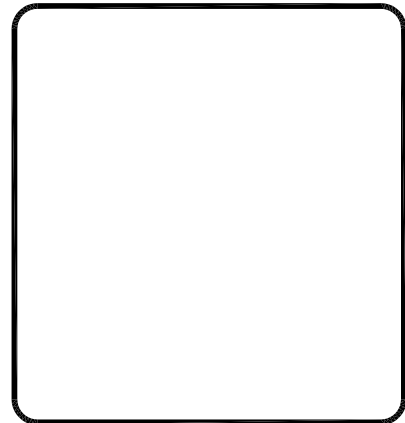
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON09
VERIZON MONTECITO-MON09
SITE ADDRESS: THOMAS BROS PAGE 997 GRID A3
R.O.W. NORTH SIDE OF JAMESON LN.
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SANTA BARBARA, CA 93108
LAT: 34.42149
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SHEET TITLE:

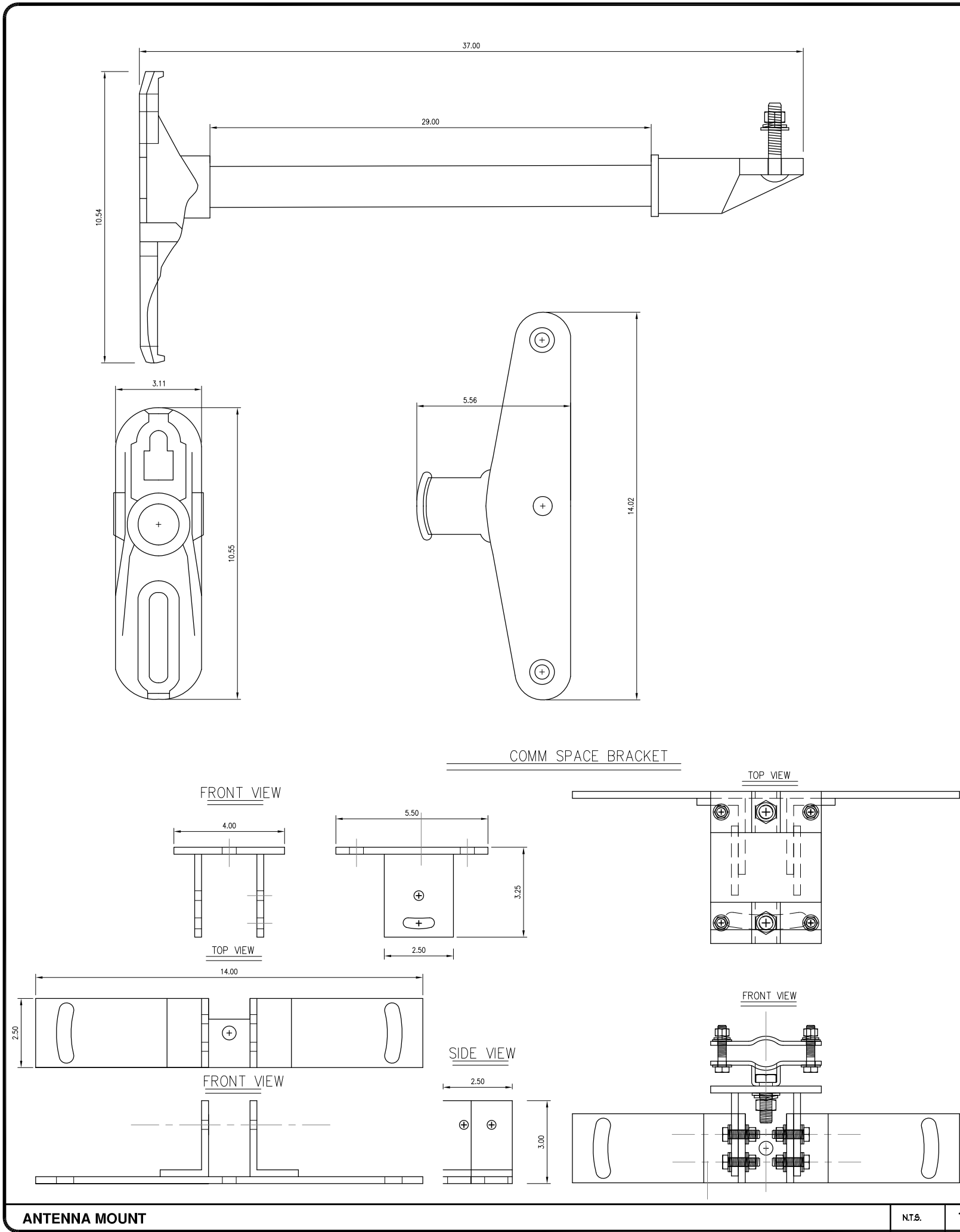
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1



Outdoor Omni-directional Antenna

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0 dBi

Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)

ANTENNA SPECIFICATIONS

NT.S.

2

AlphaCell

General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty:	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended	Extended	Extended
Runtime (minutes):	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

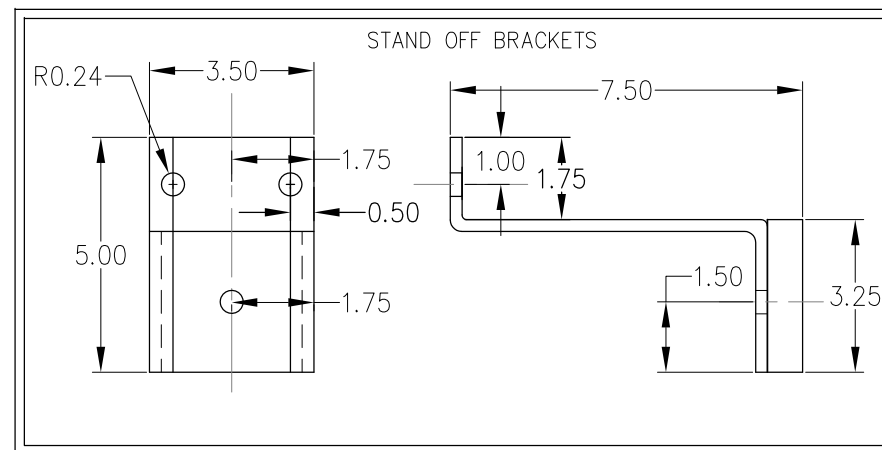
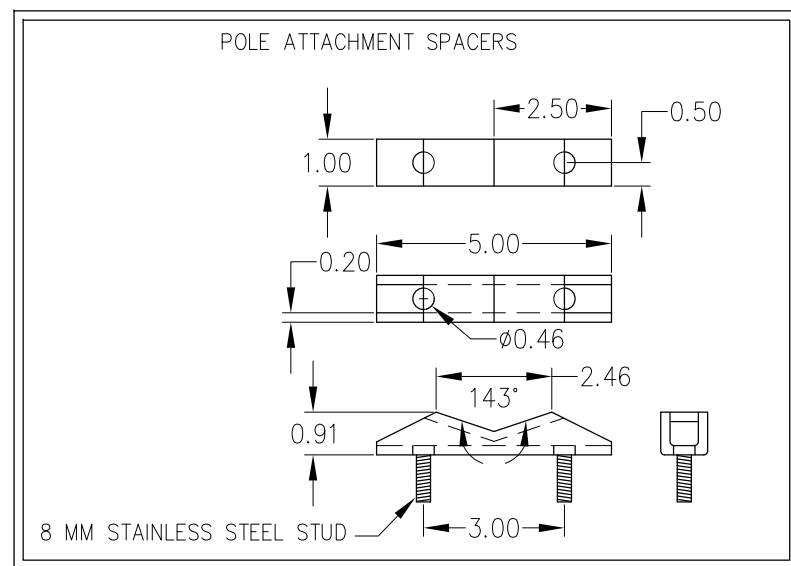
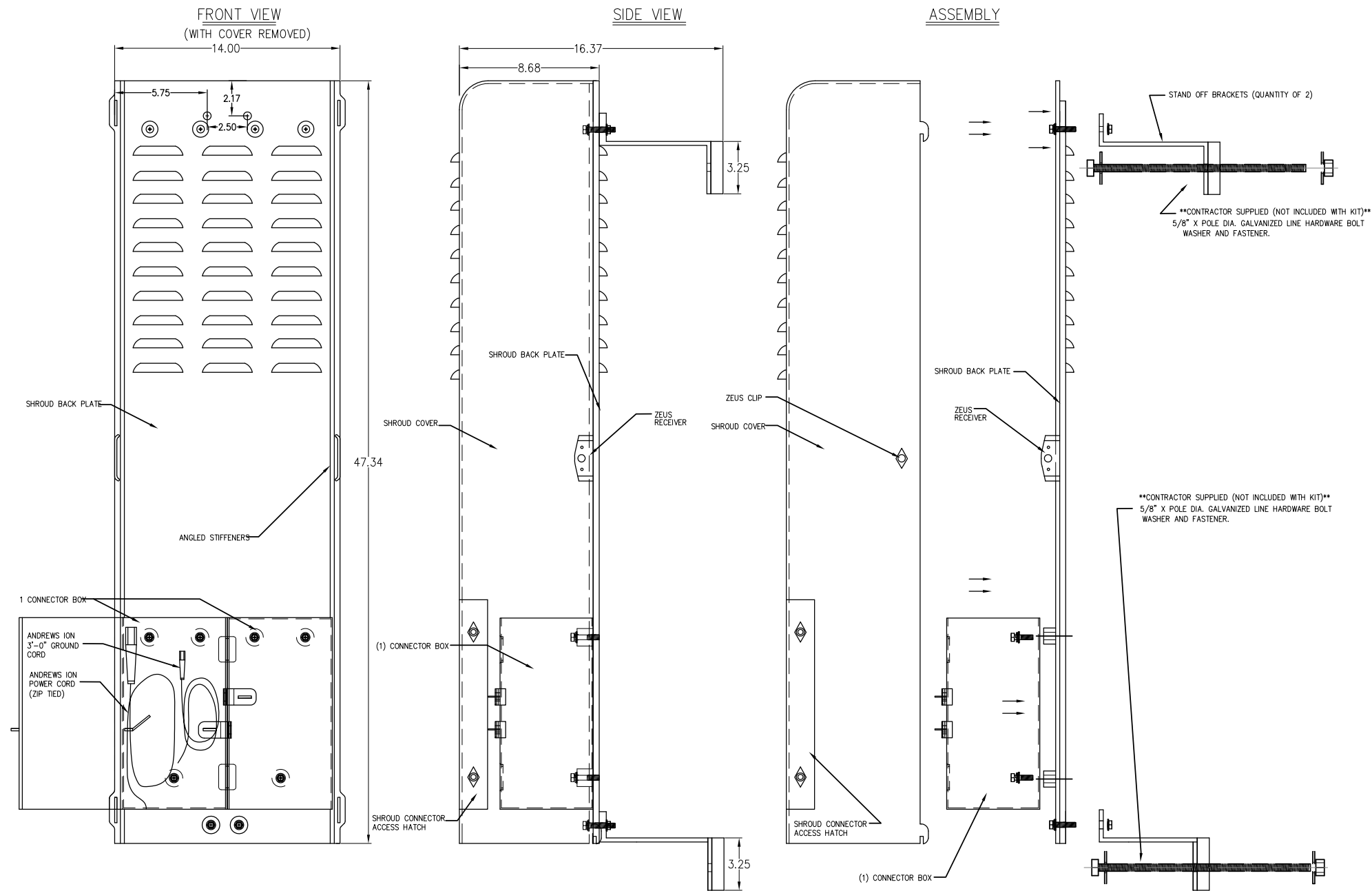
Specifications

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	900
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0060	0.0060	0.0065
Nominal Capacity at 20hrs. (to 1.75VPC):	109Ah	100Ah	88
Nominal Capacity at 20hrs. (to 1.70VPC):	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range	-40 to 71°C	-40 to 71°C	-40 to 71°C
Discharge:	(-40 to 160°F)	(-40 to 160°F)	(-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C	-23 to 60°C	-23 to 60°C
Float Charging Voltage (Vdc):	(-9.4 to 140°F)	(-9.4 to 140°F)	(-9.4 to 140°F)
AC Ripple Charger:	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8

Notes:
1. Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
2. Runtimes calculated using a 25A DC constant current load.
3. Dimensions at top of battery.
4. See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model/Size	2A	3A	4A	5A	6A	7A	8A	9A	10A
Battery/Size/mm	220	195	165	220	195	165	220	195	165
3-batteries	508	453	365	320	285	240	235	200	165
4-batteries	301	265	210	191	165	135	130	110	90
6-batteries	167	143	115	101	89	70	68	55	45
9-batteries	100	85	68	62	54	43	41	33	27
12-batteries	73	62	50	45	39	31	30	24	20
15-batteries	58	49	39	36	31	25	24	19	16
18-batteries	48	40	31	29	25	20	19	15	12
21-batteries	40	33	26	24	20	16	15	12	10
24-batteries	34	28	22	20	17	14	13	10	8
27-batteries	30	25	19	18	15	12	11	9	7
30-batteries	26	22	17	16	13	10	9	7	6
33-batteries	23	19	15	14	11	9	8	6	5
36-batteries	20	17	13	12	10	8	7	5	4
39-batteries	18	15	11	10	9	7	6	4	3
42-batteries	16	13	10	9	8	6	5	3	2
45-batteries	14	12	9	8	7	5	4	2	1
48-batteries	12	10	8	7	6	4	3	1	1
51-batteries	11	9	7	6	5	3	2	1	1
54-batteries	10	8	6	5	4	2	1	1	1
57-batteries	9	7	5	4	3	1	1	1	1
60-batteries	8	6	4	3	2	1	1	1	1
63-batteries	7	5	3	2	1	1	1	1	1
66-batteries	6	4	2	1	1	1	1	1	1
69-batteries	5	3	1	1	1	1	1	1	1
72-batteries	4	2	1	1	1	1	1	1	1
75-batteries	3	1	1	1	1	1	1	1	1
78-batteries	2	1	1	1	1	1	1	1	1
81-batteries	1	1	1	1	1	1	1	1	1
84-batteries	1	1	1	1	1	1	1	1	1
87-batteries	1	1	1	1	1	1	1	1	1
90-batteries	1	1	1	1	1	1	1	1	1
93-batteries	1	1	1	1	1	1	1	1	1
96-batteries	1	1	1	1	1	1	1	1	1
99-batteries	1	1	1	1	1	1	1	1	1
102-batteries	1	1	1	1	1	1	1	1	1
105-batteries	1	1	1	1	1	1	1	1	1
108-batteries	1	1	1	1	1	1	1	1	1
111-batteries	1	1	1	1	1	1	1	1	1
114-batteries	1	1	1	1	1	1	1	1	1
117-batteries	1	1	1	1	1	1	1	1	1
120-batteries	1	1	1	1	1	1	1	1	1
123-batteries	1	1	1	1	1	1	1	1	1
126-batteries	1	1	1	1	1	1	1	1	1
129-batteries	1	1	1	1	1	1	1	1	1
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135-batteries	1	1	1	1	1	1	1	1	1
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REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 11/05/2013	ISSUED FOR FINAL
2	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

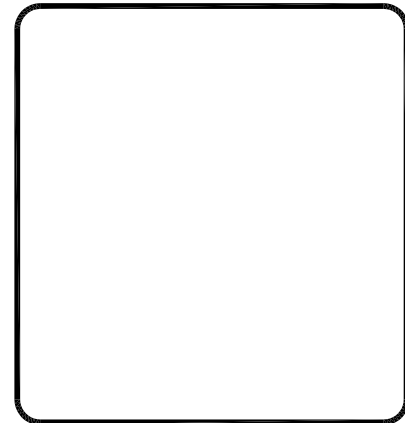
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON09
VERIZON MONTECITO-MON09
SITE ADDRESS: THOMAS BROS PAGE 997 GRID A3
R.O.W. NORTH SIDE OF JAMESON LN.
(ADJACENT TO 1790 N JAMESON LN)
SANTA BARBARA, CA 93108
LAT: 34.42149
LONG: -119.61899

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
•2010 CALIFORNIA BUILDING CODE •2010 CALIFORNIA MECHANICAL CODE •2010 CALIFORNIA PLUMBING CODE •2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNAS ON EXISTING UTILITY POLE
2. BBU, EQUIPMENT SHROUD AND ION MOUNTED TO EXISTING POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 6
SITE PLAN	A-1 - SHEET 2 OF 6
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 6
DETAILS	D-1 - SHEET 4 OF 6
DETAILS	D-2 - SHEET 5 OF 6
DETAILS	D-3 - SHEET 6 OF 6

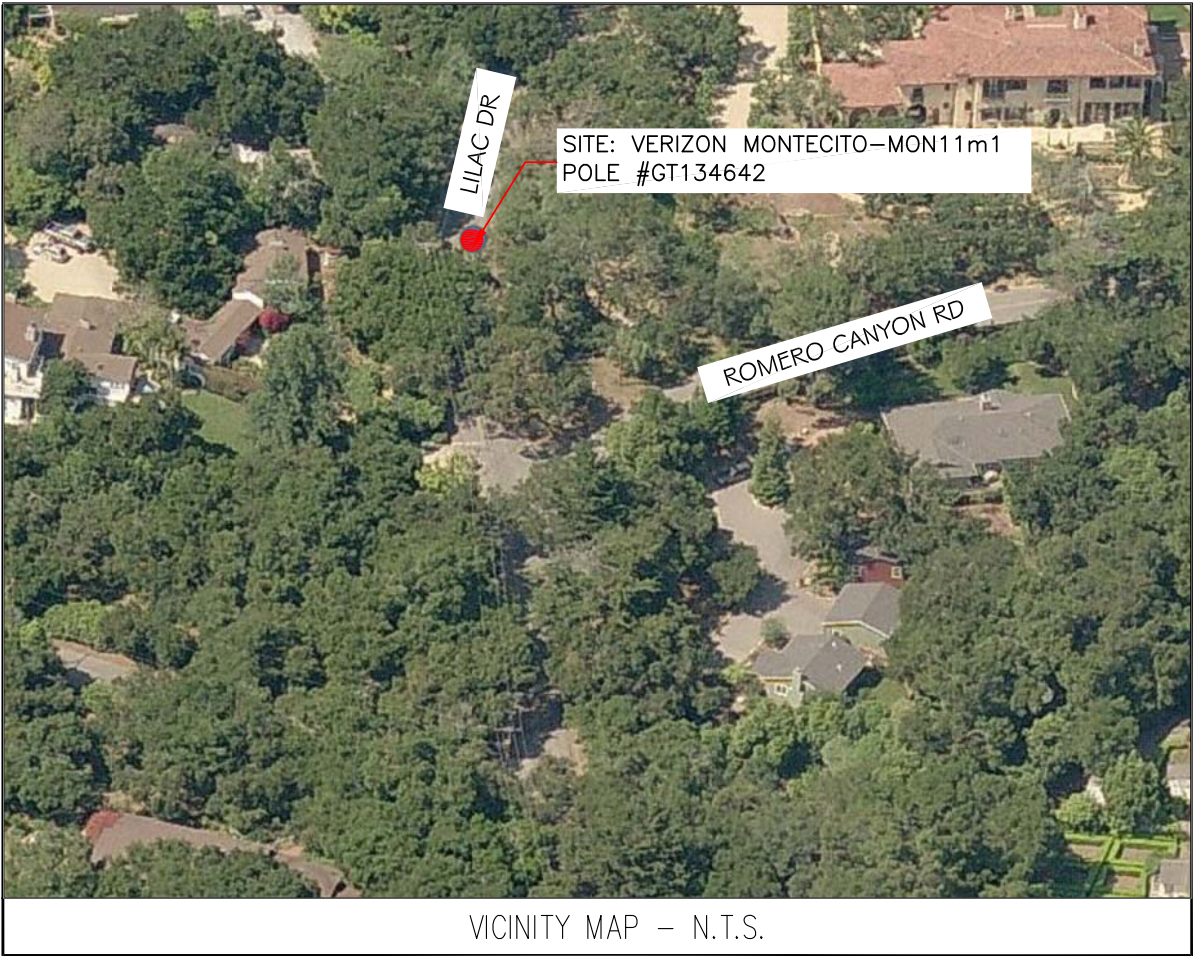
CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON11m1

R.O.W. WEST SIDE OF LILAC DR.

(ADJACENT TO 755 ROMERO CANYON RD)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'x3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. WEST OF LILAC DR
(ADJACENT TO 755 ROMERO CANYON RD)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/08/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
2	JPC 09/05/2013	ISSUED FOR APPROVAL
3	FC 10/28/2013	ISSUED FOR APPROVAL
4	FC 03/08/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

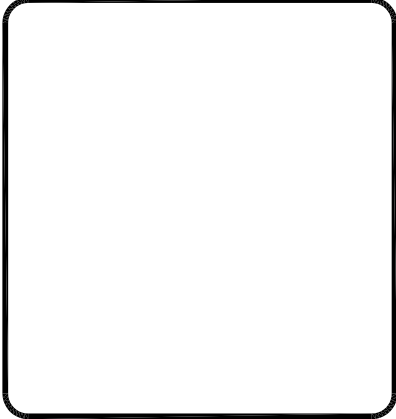
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON11m1
VERIZON MONTECITO-MON11m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. WEST OF LILAC DR
(ADJACENT TO 755 ROMERO CANYON RD)
LAT: 34.44333'
LONG: -119.60114'

SHEET TITLE:

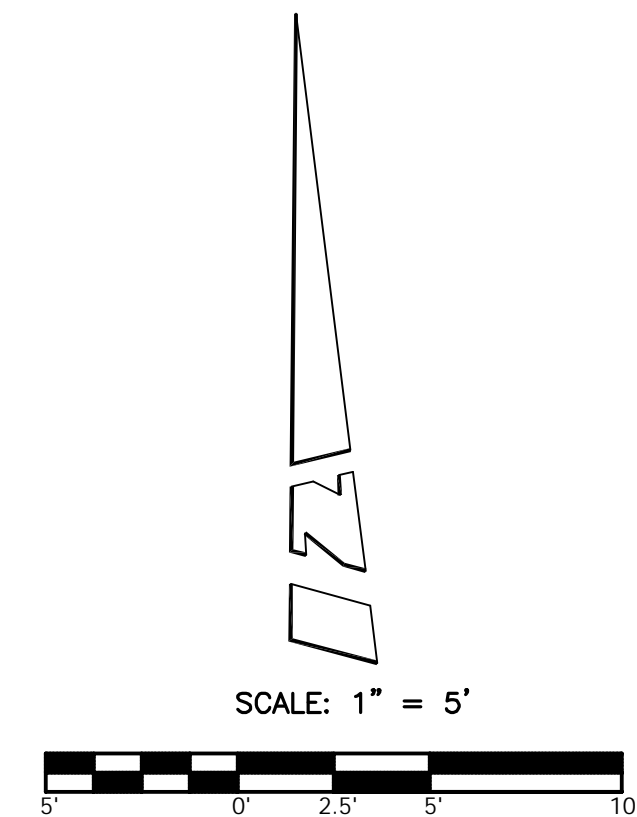
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



A.P.N. 007-110-038
(755 ROMERO CYN. RD.)

A.P.N. 007-110-039

RECORD OF SURVEY
R.S.B. 29 / 99

A.P.N. 007-080-027

COORDINATES:

LATITUDE 34°26'35.39" N
LONGITUDE 119°36'04.46" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE
ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S.
RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE
FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE NORTH RIGHT OF WAY LINE OF ROMERO CANYON ROAD, BEING
SOUTH 89°58'00" EAST PER RECORD OF SURVEY, R.S.B. 62/22,
RECORDS OF SANTA BARBARA COUNTY. (**NOT SHOWN HEREON**)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 269"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 269" AS
SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 271.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN
FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 17, 2013

SURVEYORS NOTE:

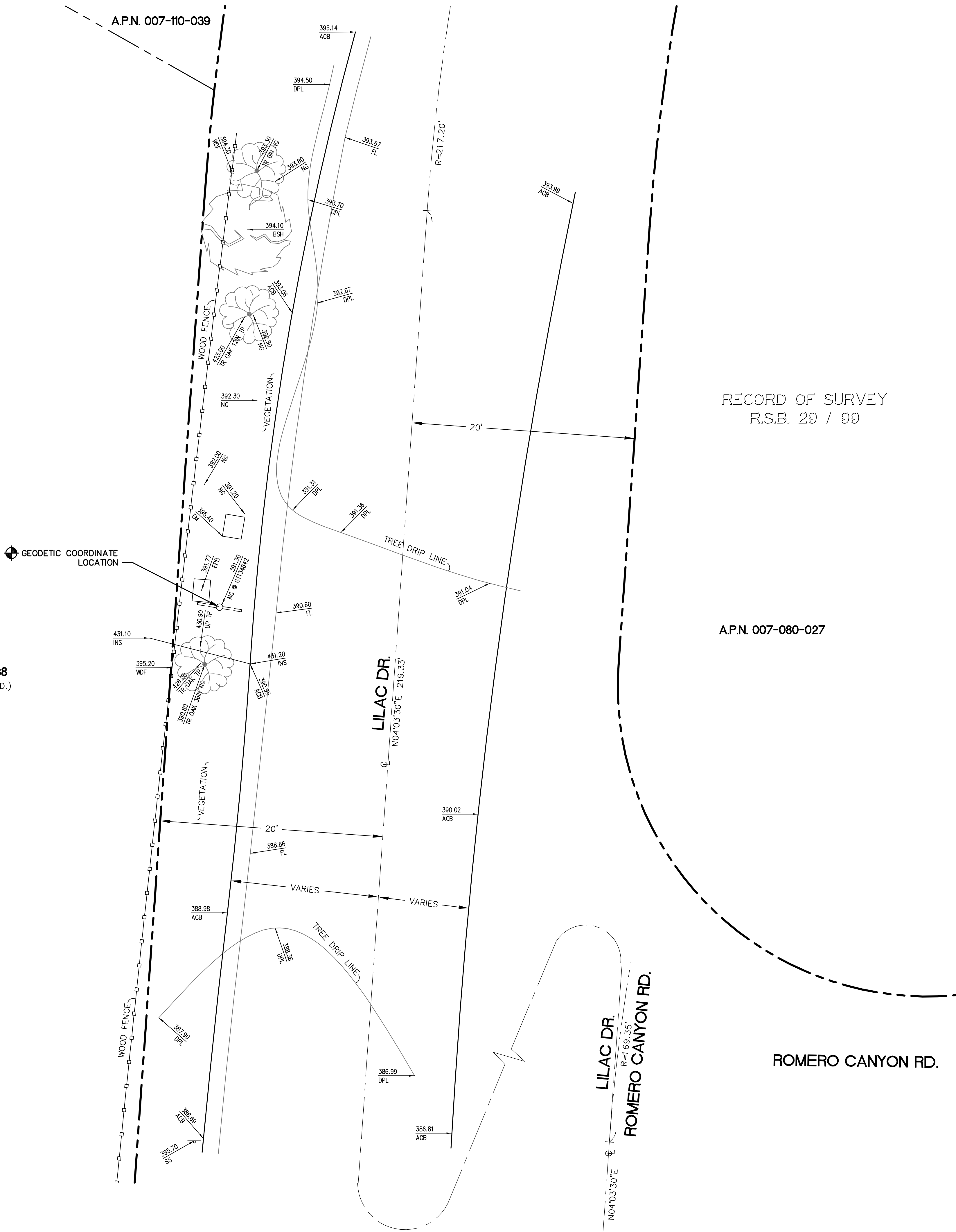
THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON
ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR
LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S)
FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER
LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED
APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS
SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND
SHOULD NOT BE USED FOR DESIGN PURPOSES.

LEGEND:

ACB ASPHALT CONCRETE BERM
BOK BRASS DISK
BSH BUSH
DPL DRIP LINE
EM ELECTRICAL METER
EPB ELECTRICAL PULL BOX
FD FOUND
FL FLOW LINE
IN INCHES
INS INSULATOR
IP IRON PIPE
NG NATURAL GROUND
PK PK NAIL
SS STREET SIGN
TP TOP
TR TREE
UP UTILITY POLE
WDF WOOD FENCE
C CENTERLINE
● FOUND MONUMENT
— STREET SIGN
— UTILITY POLE
— WOOD FENCE



REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/24/13 MDL/JA	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:

CDG
CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PKWY. SOUTH
LAKE FOREST, CA 93060-8326
(949) 753-8807 OFFICE - (949) 753-8833 FAX

SITE BUILDER:

**CROWN
CASTLE**
NG WEST, INC.

SURVEYOR:

BERT HAZE
AND ASSOCIATES, INC.
LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX
JN. 706.225

STAMP:



SITE INFO:

SITE NAME:
MONIIm1
VERIZON MONTECITO-MONIIm1

SITE ADDRESS:
R.O.W. WEST SIDE OF LILAC DR
(ADJACENT TO 755 ROMERO CANYON RD)
SANTA BARBARA, CA 93108

SHEET TITLE:

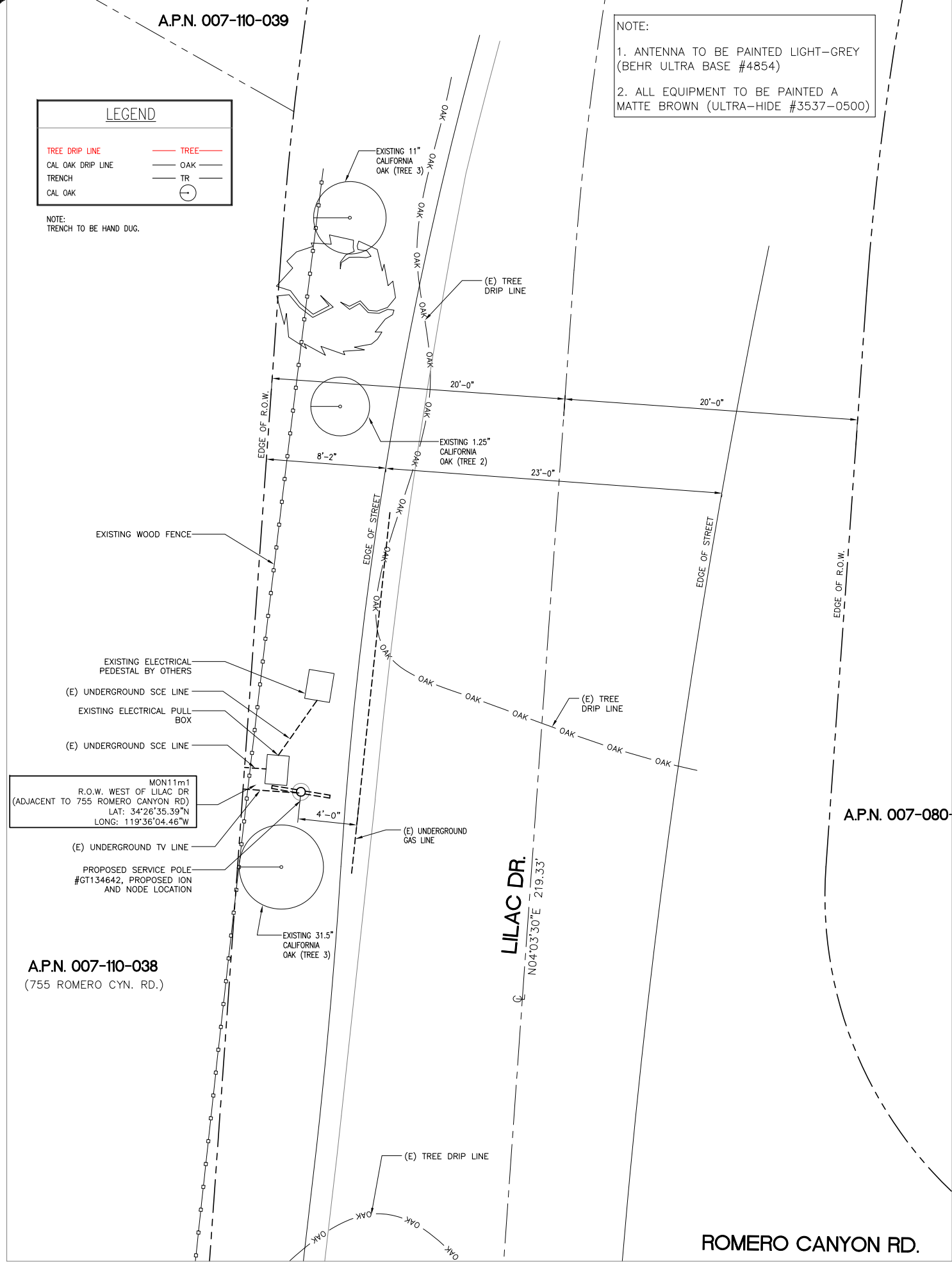
TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MONIIm1	MDL	07/24/13

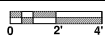
SHEET NUMBER:

1 OF 1 C-1



SITE PLAN

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



2



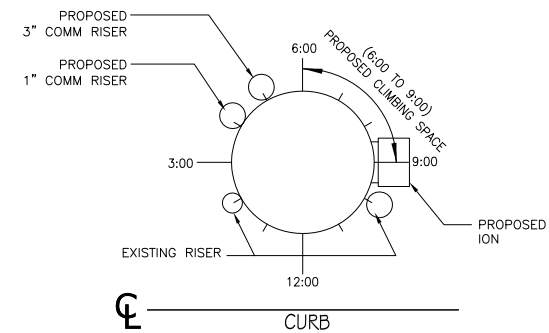
EXISTING PHOTO

SCALE:
N.T.S.

3

POLE WILL BE STEPPED IN
ACCORDANCE TO G095 STANDARDS
IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 5:00
1-1" POWER RISER @ 4:00



RISER PROFILE

SCALE:
N.T.S.

4

REV.	DATE/BY:	REVISION DESCRIPTION:
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4	FC 03/08/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

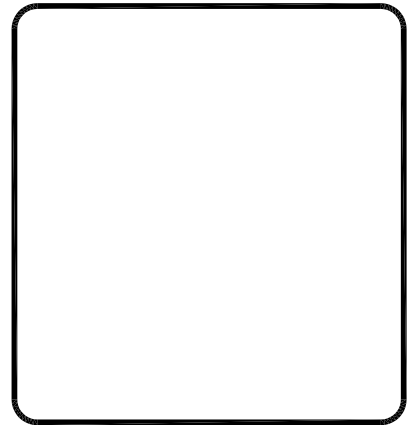
CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:	MON11m1 VERIZON MONTECITO-MON11m1
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID D1 R.O.W. WEST OF LILAC DR (ADJACENT TO 755 ROMERO CANYON RD) LAT: 34.44333° LONG: -119.60114°

SHEET TITLE:

SITE PLAN AND
ELEVATION

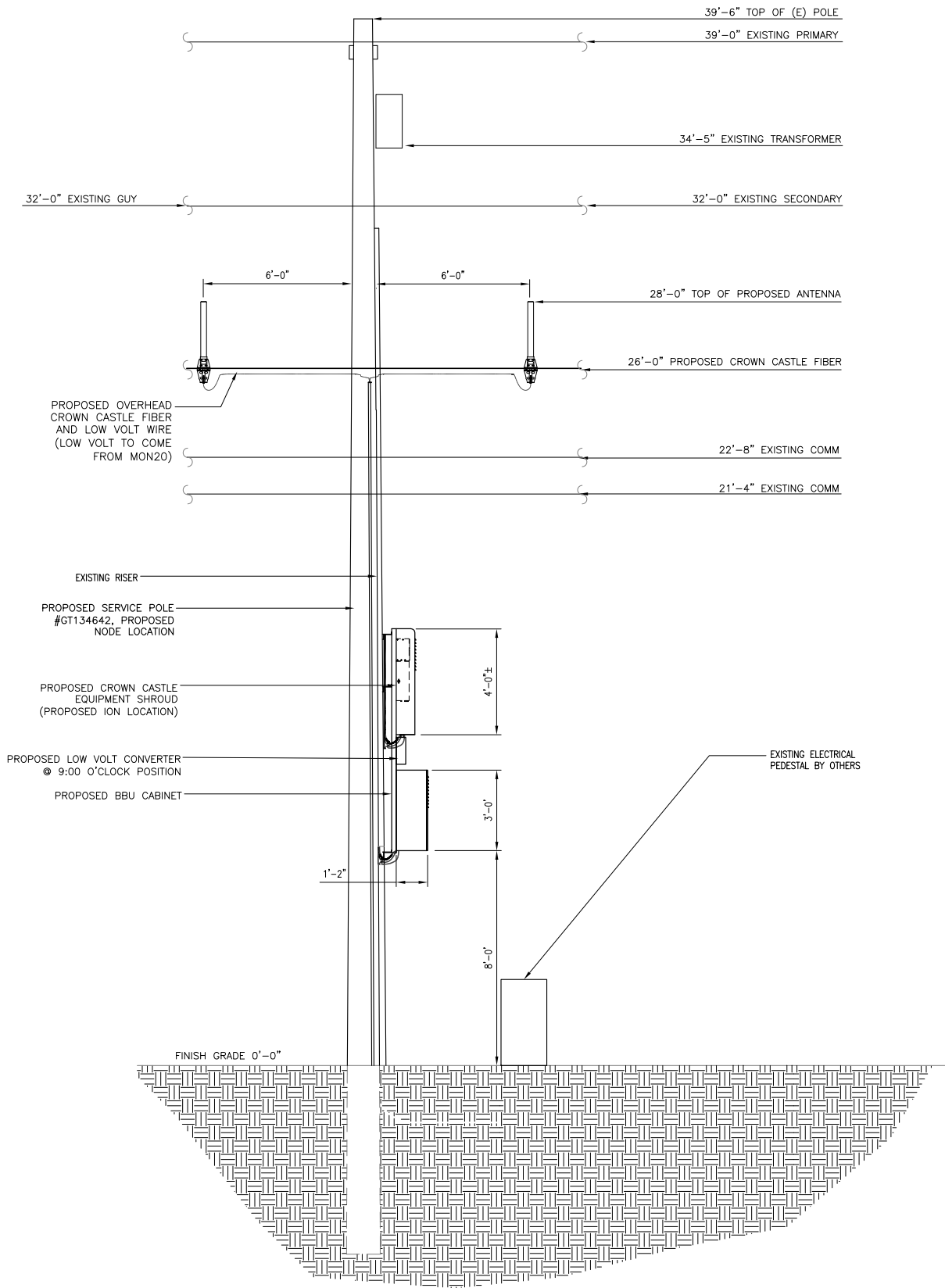
DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING WEST

SCALE:
3/8"=1'-0"

1

PROPOSED ELEVATION LOOKING NORTH

SCALE:
3/8"=1'-0"

2

REV.	DATE/BY:	REVISION DESCRIPTION:
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4	FC 03/08/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

SITE NAME:
MON11m1
VERIZON MONTECITO-MON11m1
SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1
R.O.W. WEST OF LILAC DR
(ADJACENT TO 755 ROMERO CANYON RD)
LAT: 34.44333°
LONG: -119.60114°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 40/6.0 dBi

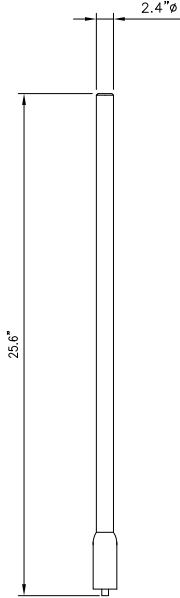
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		698 to 716/776 to 787
Uplink		
Downlink		728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		824 to 849
Uplink		
Downlink		869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO

1900 MHz

Frequency range, MHz		1850 to 1915
Uplink		
Downlink		1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB		10 max. +6 max. 4.5 typical
IP3 optimized		
Noise figure optimized		

Mechanical***

Height, width, depth, mm (in)		817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)		40 (88.2)
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Page 1, February 27, 2013

Company Confidential

ION-M7P/7P/85P/19P

N.T.S.

2

AlphaCell

General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended	Extended	Extended
Runtime (minutes) ² :	220	195	165
Sealed VRLA:	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Heat Resistant:	Extreme	Extreme	Extreme
Hydrogen Emission:	Low	Low	Low
Terminals:	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC	Threaded insert 1/4" - 20 UNC

Specifications⁴

Model	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	27	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Heightw/ Terminals (in/mm):	8.48/215.4	8.05/204.5	8.05/204.5
Width (in/mm) ³ :	13.42/340.9	13.42/340.9	12.5/317.8
Depth (in/mm) ³ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Floot Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:			

0.5% RMS or 1.5% offload charge voltage recommended for best results. Max. allowed = 4% P-P

Notes:

¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

² Runtimes calculated using a 25A DC constant current load.

³ Dimensions at top of battery.

⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

>M290vac@	4A												
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	
3 batteries	508	453	396	320	285	249	236	209	193	196	165	144	
4 batteries	701	625	546	444	396	346	329	293	256	261	232	203	
6 batteries	1091	978	853	701	625	546	523	465	407	418	372	325	
8 batteries	1487	1338	1165	960	859	750	720	643	562	577	515	450	
9 batteries	1886	169	1322	1091	978	853	820	733	640	659	587	514	

>M290vac@	12A												
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	
3 batteries	149	132	115	119	106	92	101	89	77	87	78	68	
4 batteries	210	187	163	169	151	132	144	128	112	124	111	96	
6 batteries	339	301	264	275	245	214	236	209	183	204	182	159	
8 batteries	478	419	367	385	341	299	329	293	256	288	255	223	
9 batteries	538	479	419	440	391	342	377	335	294	329	293	256	

>M290vac@	4A												
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	
3 batteries	798	712	622	508	453	396	377	335	294	300	267	233	
4 batteries	1091	978	853	701	625	546	523	465	407	418	372	325	
6 batteries	1688	1519	1322	1091	978	853	820	733	640	659	587	514	
8 batteries	2288	2087	1798	1487	1338	1165	1122	1006	877	904	809	708	
9 batteries	2590	2345	2037	1886	169	1322	1273	1143	997	1027	921	803	

>M290vac@	12A												
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	
3 batteries	242	215	188	196	174	151	166	148	125	144	128	107	
4 batteries	339	301	264	275	245	214	236	209	182	204	182	155	
6 batteries	538	479	419	440	391	340	377	335	290	329	293	252	
8 batteries	741	660	577	607	541	470	523	465	402	458	407	351	
9 batteries	843	753	658	692	617	538	597	531	462	523	465	402	

*Above calculations based on an AC load with a .90 cable plant power factor.

For contact information visit www.alpha.com

The Alpha Group >

North America	Europe, Middle East & Africa	Asia Pacific	Latin & South America
Canada Tel: +1 604 430 1476 Fax: +1 604 430 8908 Toll Free: +1 800 667 8743	Cyprus Tel: +357 25 375 671 Fax: +357 52 359 595	Germany Tel: +49 9122 79889 0 Fax: +49 9122 79889 21	Lithuania Tel: +370 5 210 5291 Fax: +370 5 210 5292
USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 925 9844 Fax: +7 495 916 1349	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870	P.R. China Tel: +862 2736 6663 Fax: +862 2199 7998
			Contact USA office

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049-297-10-B002 (08/09)

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3	FC 10/28/2013	ISSUED FOR APPROVAL
4	FC 03/08/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON11m1
	VERIZON MONTECITO-MON11m1
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID D1
	R.O.W. WEST OF LILAC DR
	(ADJACENT TO 755 ROMERO CANYON RD)
	LAT: 34.44333°
	LONG: -119.60114°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

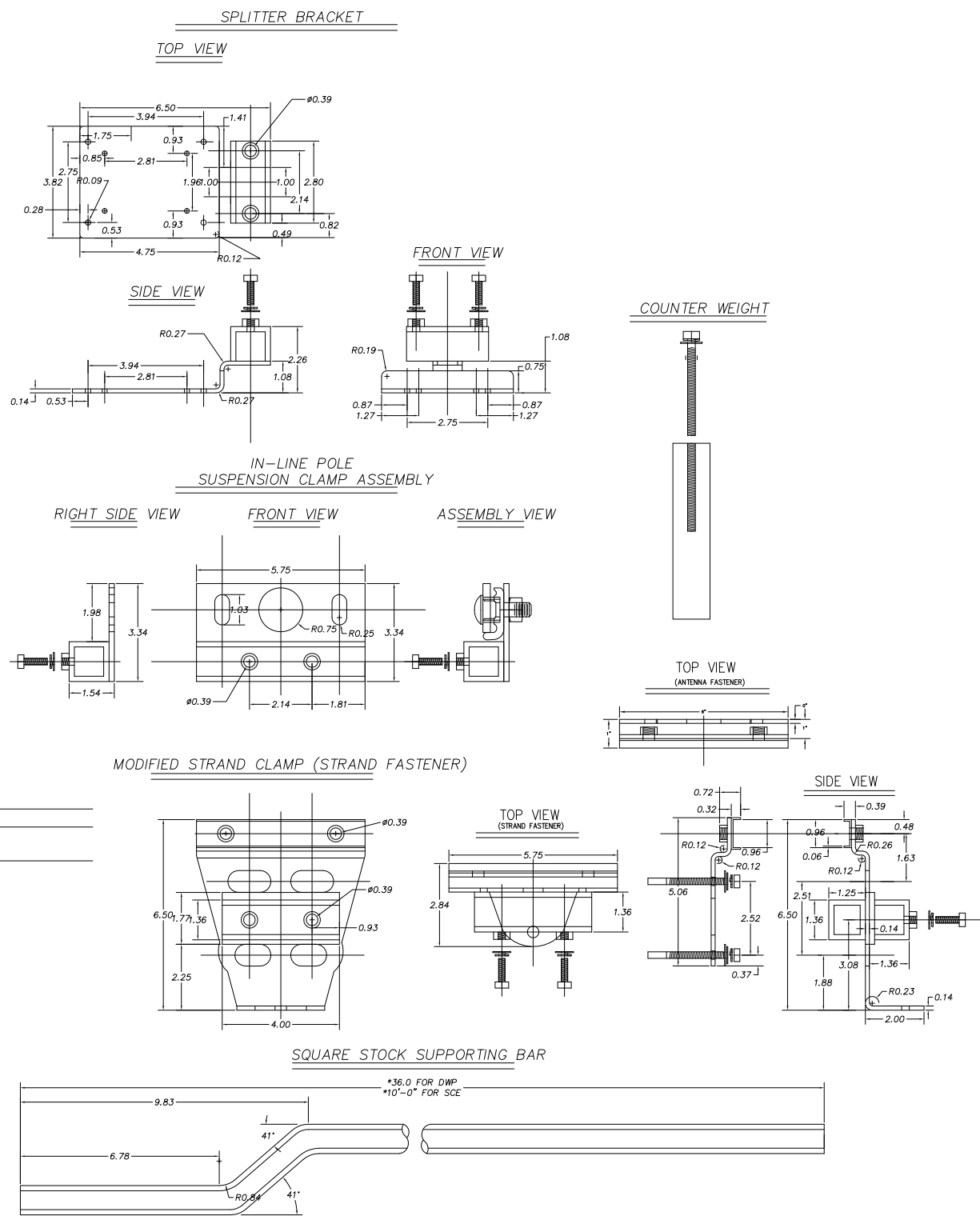
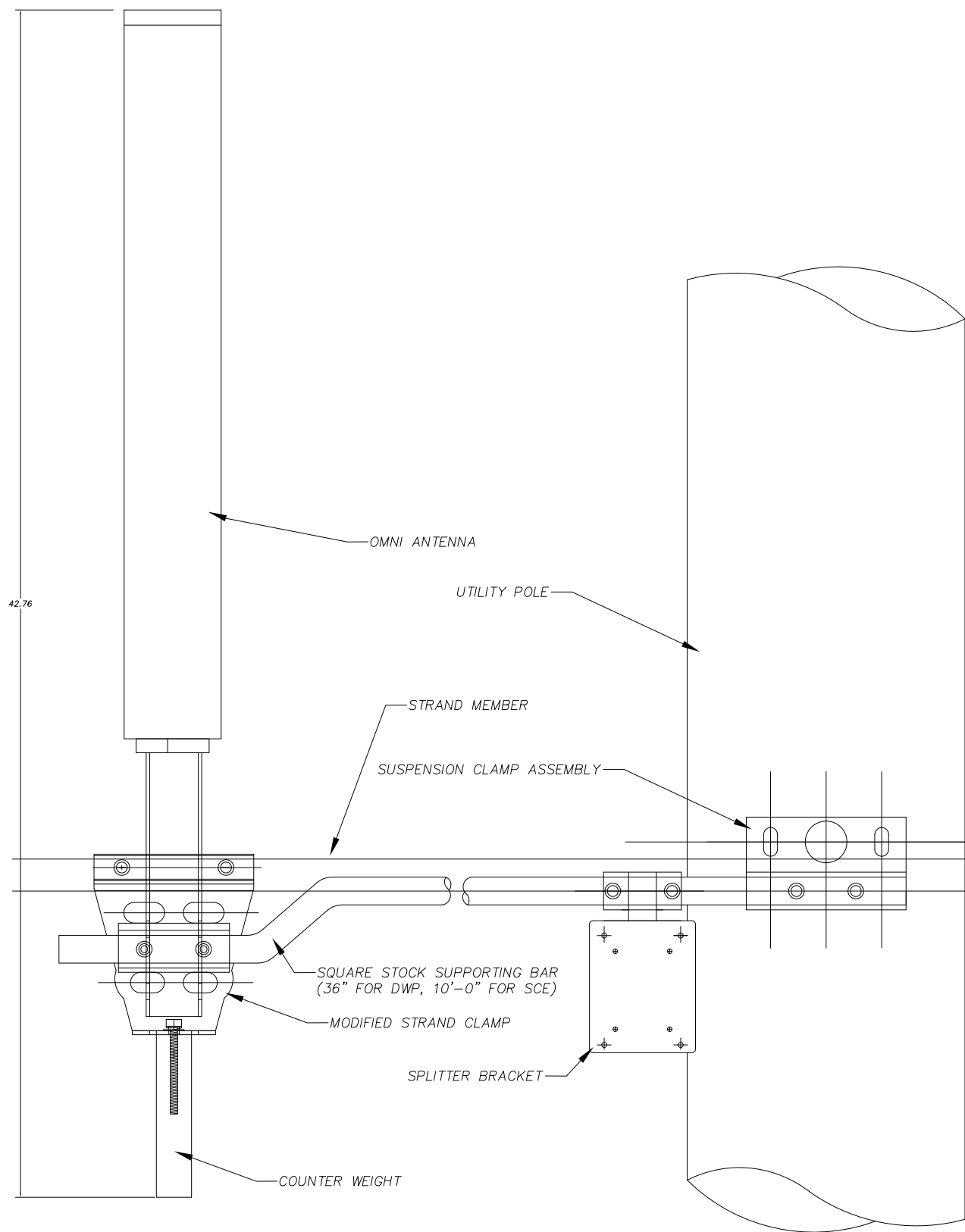
SHEET NUMBER:

D-1

UN-USED

N.T.S.

3



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630

(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE

NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: MON11m1

VERIZON MONTECITO-MON11m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1

R.O.W. WEST OF LILAC DR

(ADJACENT TO 755 ROMERO CANYON RD)

LAT: 34.44333°

LONG: -119.60114°

SHEET TITLE:

DETAILS

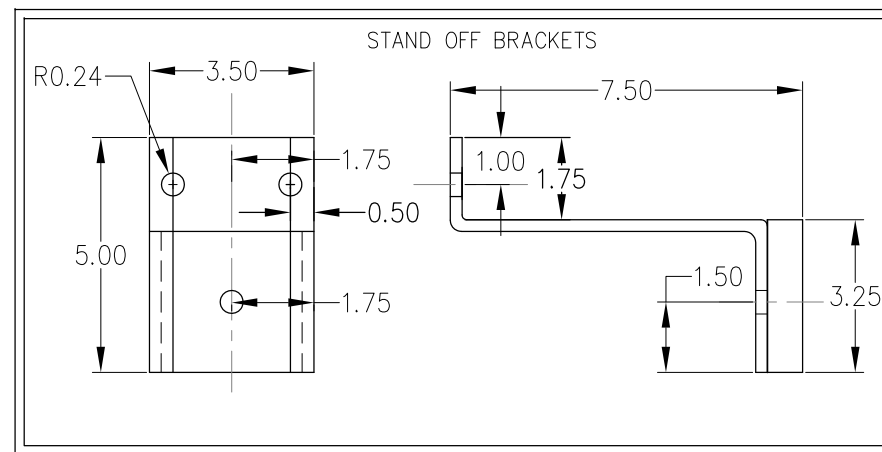
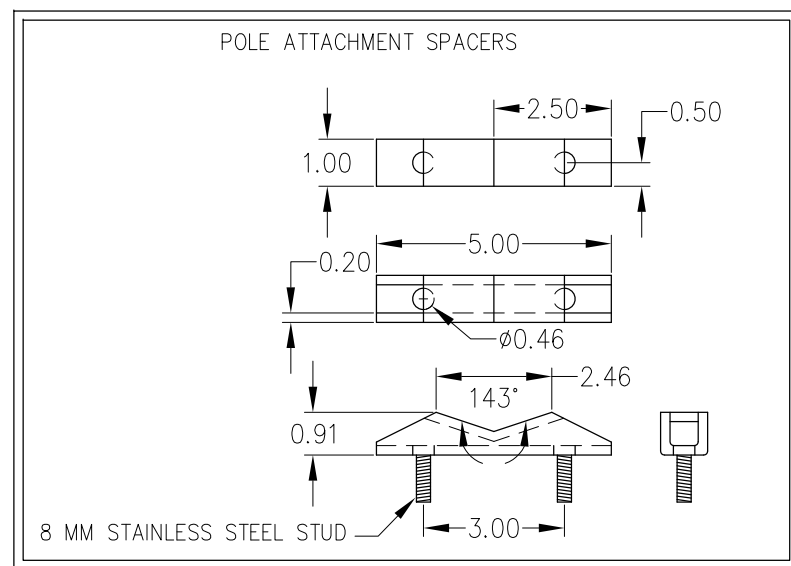
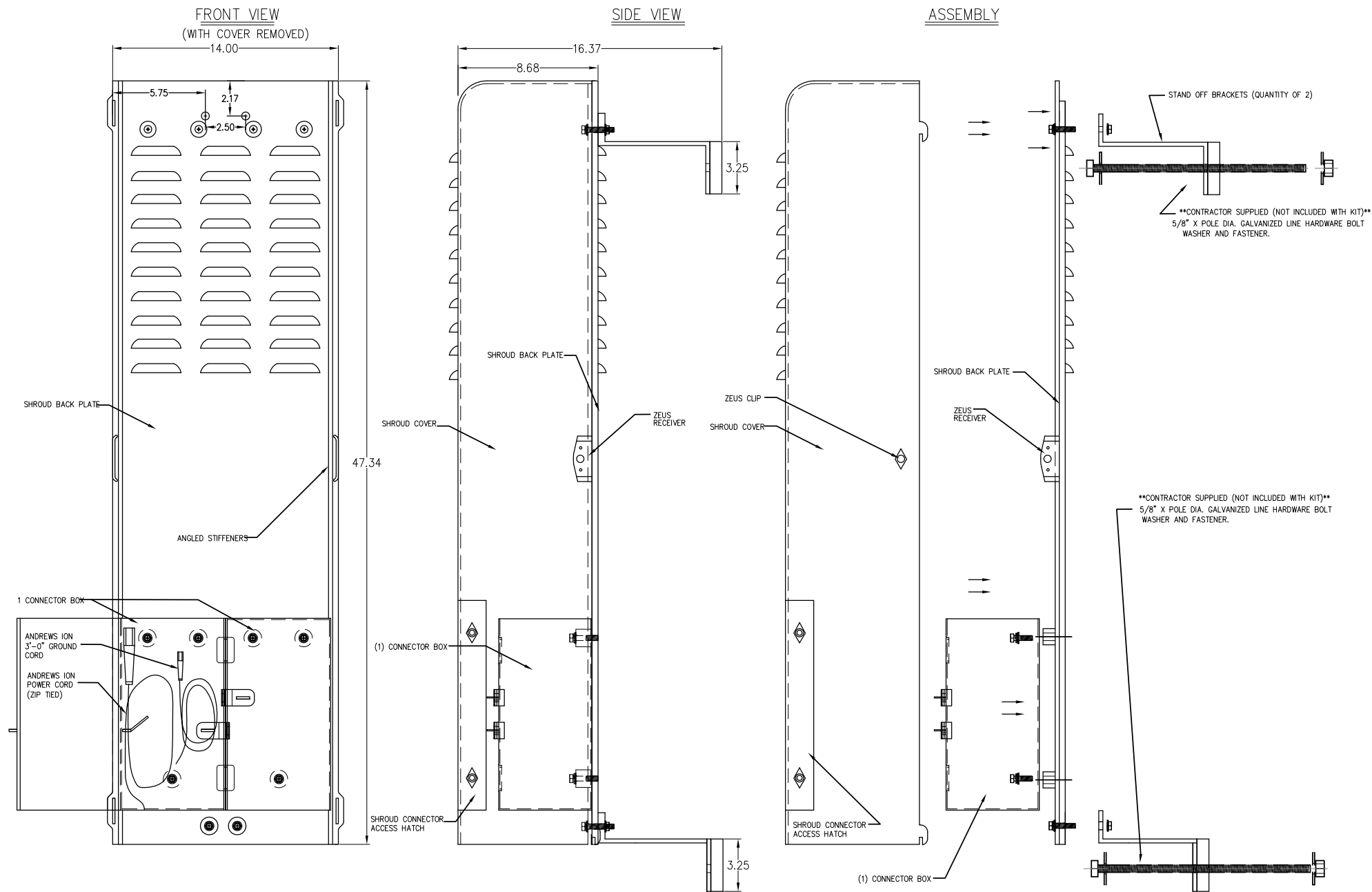
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DRAWN BY:

FC

SHEET NUMBER:

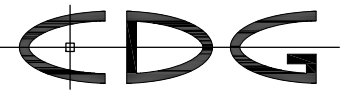
D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/08/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
2	JPC 09/05/2013	ISSUED FOR APPROVAL
3	FC 10/28/2013	ISSUED FOR APPROVAL
4	FC 03/08/2013	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

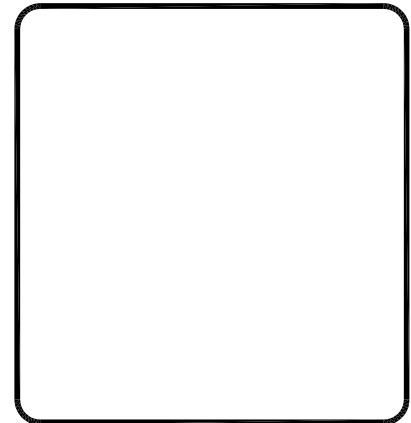
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630

(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:

MON11m1

VERIZON MONTECITO-MON11m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID D1

R.O.W. WEST OF LILAC DR

(ADJACENT TO 755 ROMERO CANYON RD)

LAT: 34.44333°

LONG: -119.60114°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:

FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNA ON EXISTING UTILITY POLE 2. EXISTING EQUIPMENT SHROUD TO BE REPLACED 3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 10
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 10
TOPOGRAPHIC SURVEY	C-2 - SHEET 3 OF 10
SITE PLAN	A-1 - SHEET 4 OF 10
EXISTING ELEVATIONS	A-2 - SHEET 5 OF 10
PROPOSED ELEVATIONS	A-3 - SHEET 6 OF 10
GRADING PLAN	A-4 - SHEET 7 OF 10
DETAILS	D-1 - SHEET 8 OF 10
DETAILS	D-2 - SHEET 9 OF 10
DETAILS	D-3 - SHEET 10 OF 10

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON13

ROW NORTH SIDE OF ORTEGA HILLS RD

(ADJACENT TO 2101 SUMMERLAND HEIGHTS RD)

SUMMERLAND, CA 93067



VICINITY MAP - N.T.S.

GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: ROW NORTH SIDE OF ORTEGA HILLS RD (ADJACENT TO 2101 SUMMERLAND HEIGHTS RD) SUMMERLAND, CA 93067

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/25/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON13 VERIZON MONTECITO-MON13
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID C3 R.O.W. NORTH SIDE OF ORTEGA HILL RD (ADJACENT TO 2101 SUMMERLAND HEIGHTS RD) SANTA BARBARA, CA 93108 LAT: 34.423900° LONG: -119.608410°

SHEET TITLE:

TITLE SHEET

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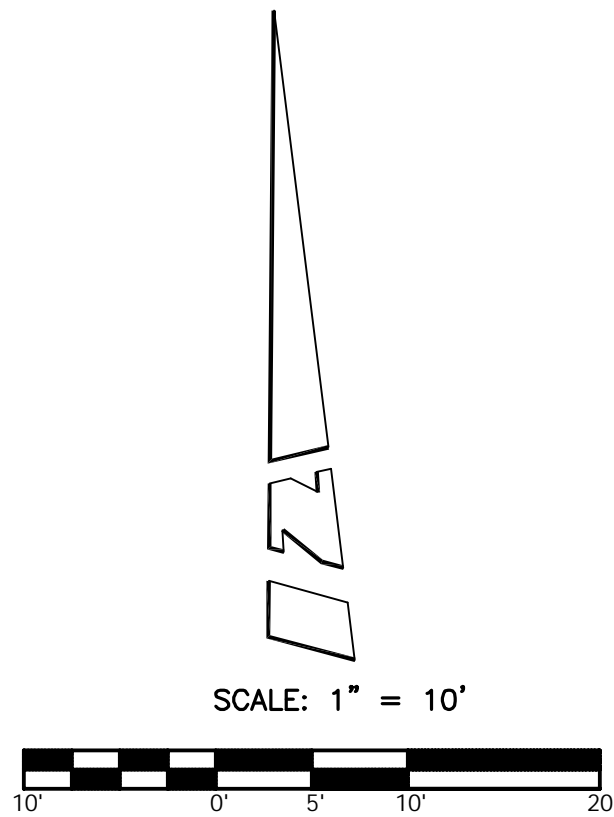
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FC

SHEET NUMBER:

T-1

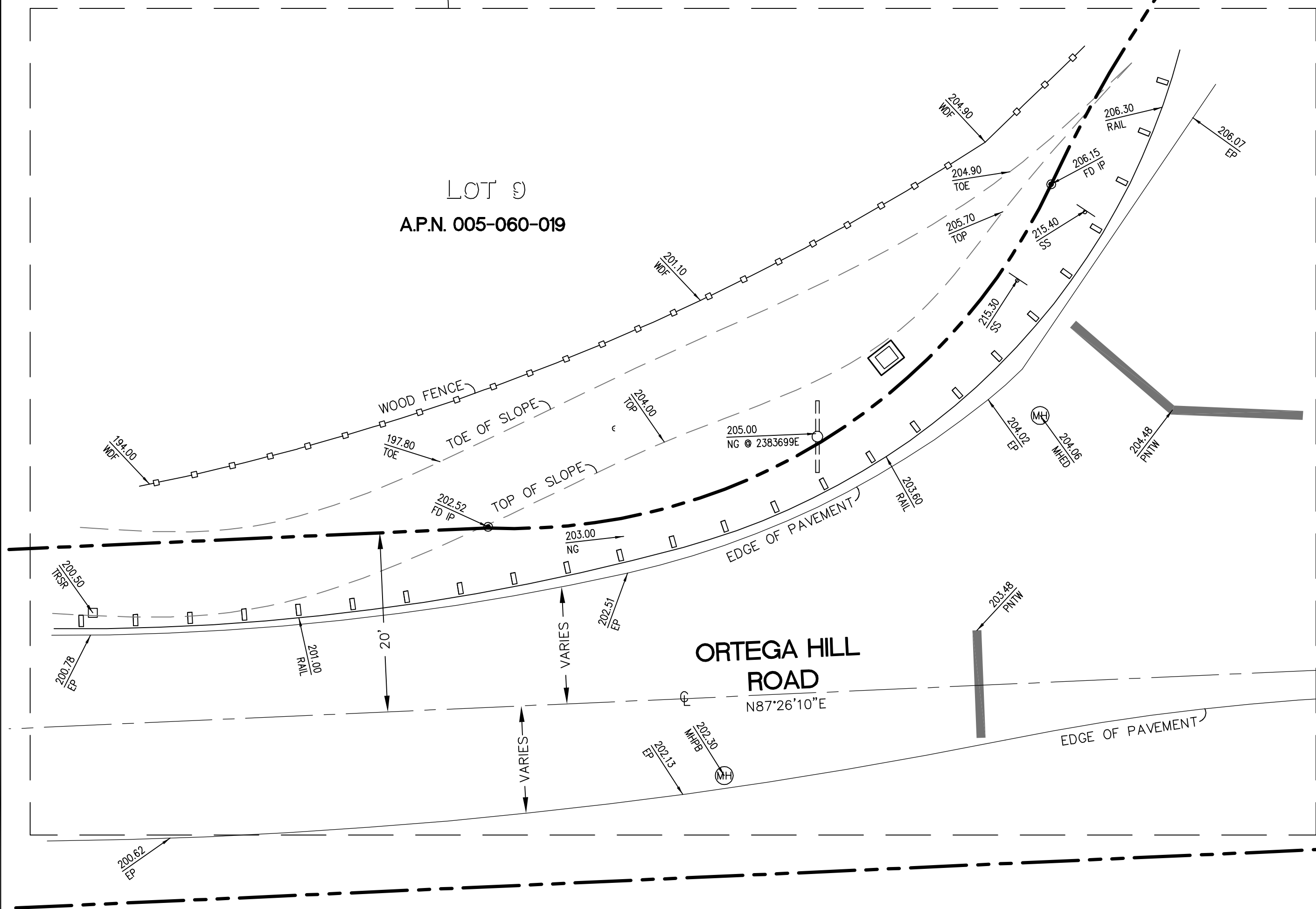
LEGEND:

- ANT ANTENNA
BTM BOTTOM
CPD CONCRETE PAD
DPL DRIP LINE
EM ELECTRICAL METER
EP EDGE OF PAVEMENT
FD FOUND
GA GUY ANCHOR
GC GAS CAN
IN INCHES
IP IRON PIPE
MHED MANHOLE - EDISON
MHPB MANHOLE - PAC BELL
NG NATURAL GROUND
PNTC PAINT - COX
PNTG PAINT - GAS
PNTR PAINT - RED
PNTTV PAINT - TV
PNTW PAINT - WHITE
PST POST
RAIL GUARD RAIL
SS STREET SIGN
TOE TOE OF SLOPE
TOP TOP OF SLOPE
TP TOP
TR TREE
TRSR TELCO RISER
UP UTILITY POLE
WDF WOOD FENCE
WHIP OMNI WHIP ANTENNA
CL CENTERLINE
● EDISON MANHOLE
● FOUND MONUMENT
● GUY ANCHOR
● MANHOLE
+ STREET SIGN
=O= UTILITY POLE
-□- WOOD FENCE



TRACT NO. 14,038
M.B. 184 / 1 - 12

SEE SHEET C-2 FOR DETAIL



A.P.N. 005-110-033

COORDINATES:

LATITUDE 34°25'26.16" N
LONGITUDE 119°36'30.29" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE SOUTHWESTERLY LINE OF LOT 1 BEING NORTH 69°00'49" WEST PER TRACT NO. 14,390, M.B. 183/73-78, RECORDS OF SANTA BARBARA COUNTY.

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 250"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 250" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 252.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 17, 2013

SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/24/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



STAMP:



SITE INFO:

SITE NAME:
MONI3
VERIZON MONTECITO-MONI3

SITE ADDRESS:
R.O.W. EAST SIDE OF ORTEGA RIDGE RD
(ADJACENT TO 2101 SUMMERLAND HEIGHTS LN)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

DRAWING INFO:

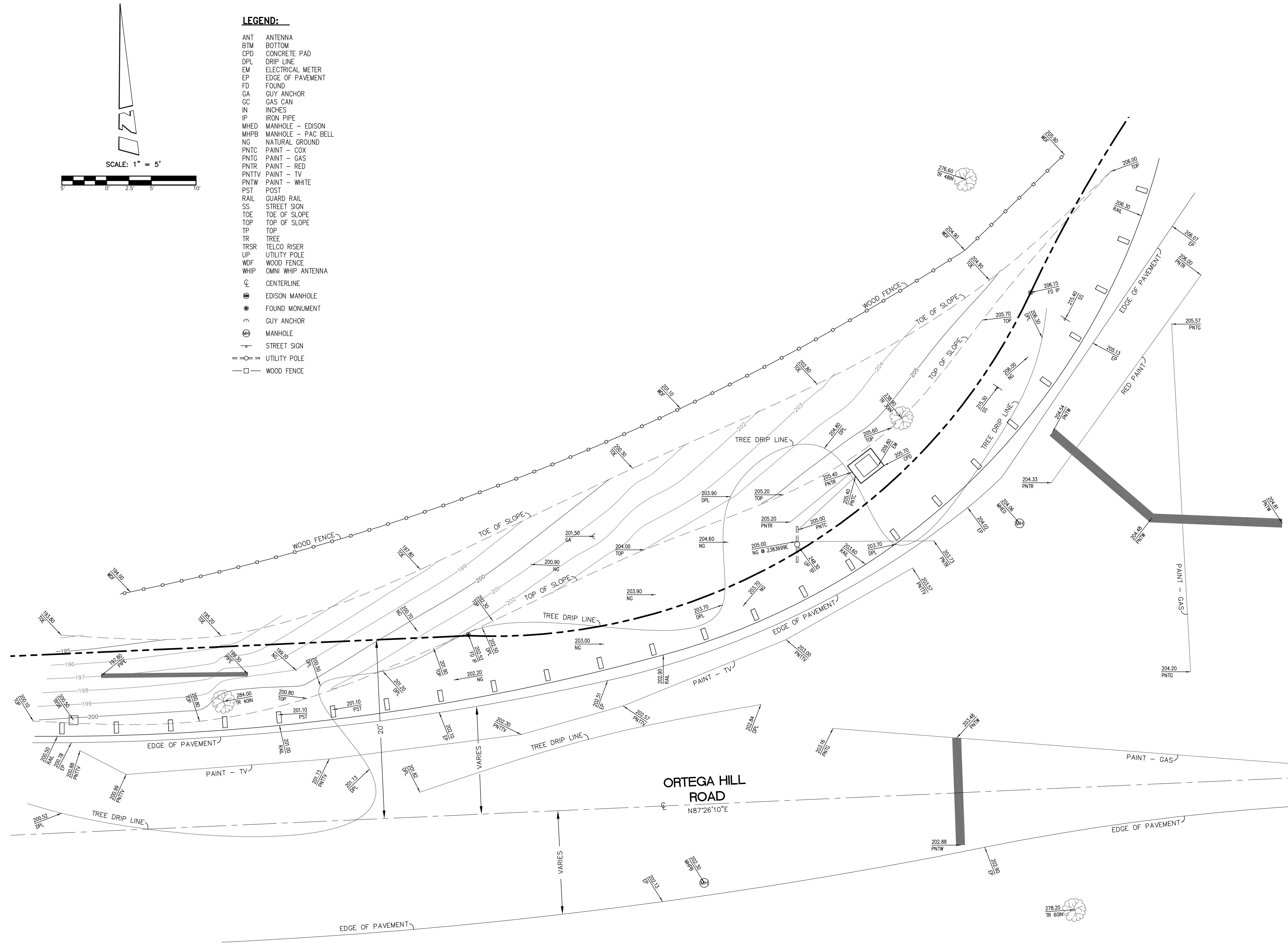
DWG. NAME:	DRAWN BY:	DATE:
MONI3	MDL	07/24/13

SHEET NUMBER:

1 OF 2

C-1

SEE SHEET C-2 FOR SITE DETAILS



LEGEND:

- ANT ANTENNA
- BTM BOTTOM
- CPD CONCRETE PAD
- DPL DRIP LINE
- EM ELECTRICAL METER
- EP EDGE OF PAVEMENT
- FD FOUND
- GA GUY ANCHOR
- GC GAS CAN
- IN INCHES
- IP IRON PIPE
- MHED MANHOLE - EDISON
- MHPB MANHOLE - PAC BELL
- NG NATURAL GROUND
- PNTC PAINT - COX
- PNTG PAINT - GAS
- PNTR PAINT - RED
- PNTTV PAINT - TV
- PNTW PAINT - WHITE
- PST POST
- RAIL GUARD RAIL
- SS STREET SIGN
- TOE TOE OF SLOPE
- TOP TOP OF SLOPE
- TP TOP
- TR TREE
- TRSR TELCO RISER
- UP UTILITY POLE
- WDF WOOD FENCE
- WHIP OMNI WHIP ANTENNA
- CL CENTERLINE
- EDISON MANHOLE
- FOUND MONUMENT
- GUY ANCHOR
- MANHOLE
- STREET SIGN
- UTILITY POLE
- WOOD FENCE

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/24/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PKWY, SOUTH
LAKE FOREST, CA 92630-8326
(949) 753-8807 OFFICE - (949) 753-8833 FAX

SITE BUILDER:



CROWN
CASTLE
NG WEST, INC.

SURVEYOR:



BERT HAZE
AND ASSOCIATES, INC.
LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX
JN. 706.226

STAMP:



SITE INFO:

SITE NAME:
MONI3
VERIZON MONTECITO-MONI3

SITE ADDRESS:
R.O.W. EAST SIDE OF ORTEGA RIDGE RD
(ADJACENT TO 2101 SUMMERLAND HEIGHTS LN)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

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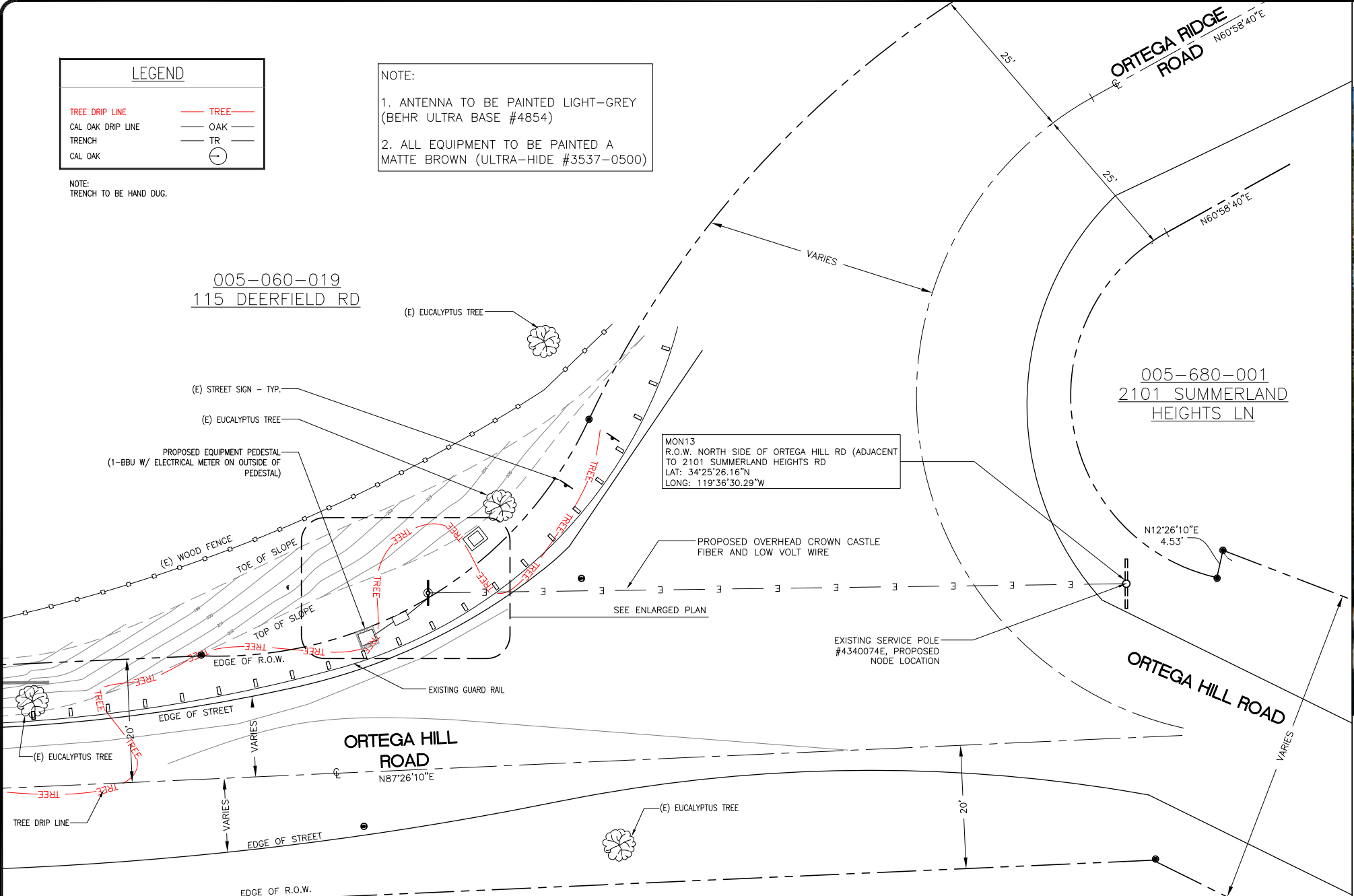
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MONI3	MDL	07/24/13

SHEET NUMBER:

2 OF 2

C-2

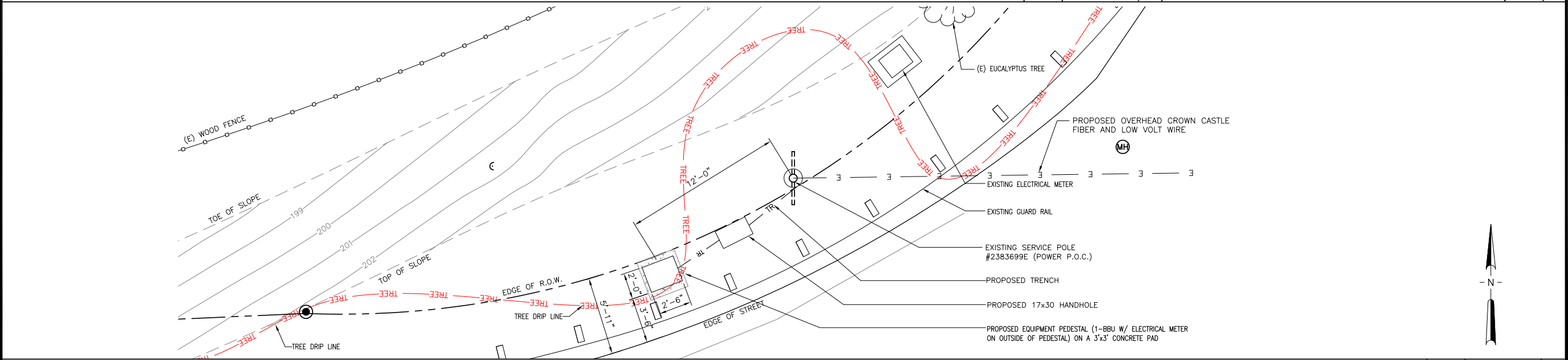
SEE SHEET C-1 FOR BOUNDARY AND TITLE INFO.



SITE PLAN



EXISTING PHOTO



ENLARGED SITE PLAN

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/25/2013	ISSUED FOR REVIEW
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2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

CDG

CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630

(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE

NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME:

MON13

VERIZON MONTECITO-MON13

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3

R.O.W. NORTH SIDE OF ORTEGA HILL RD

(ADJACENT TO 2101 SUMMERLAND HEIGHTS RD)

SANTA BARBARA, CA 93108

LAT: 34.423900°

LONG: -119.608410°

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN AND EXISTING PHOTO

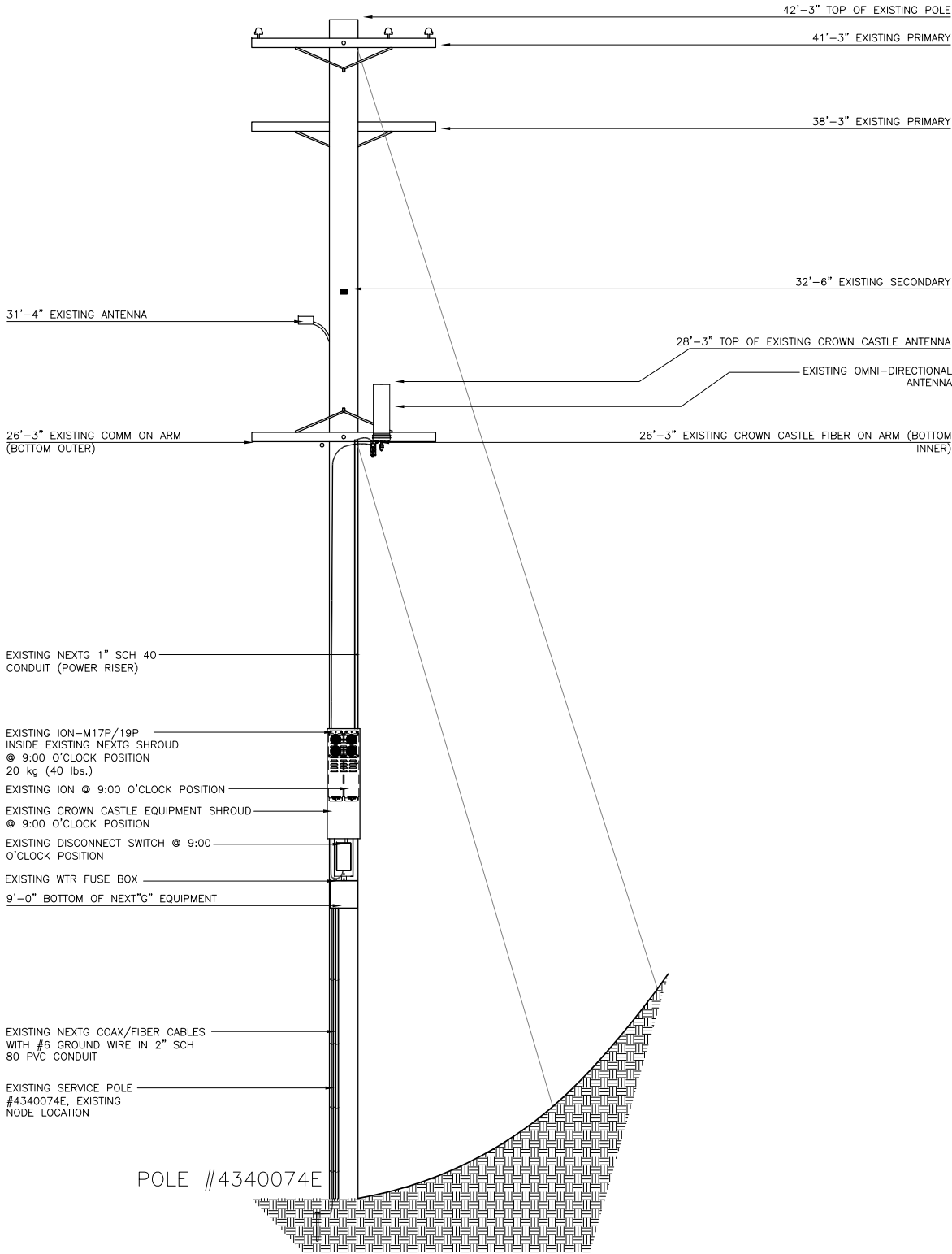
DRAWING INFO:

DRAWN BY:

FC

SHEET NUMBER:

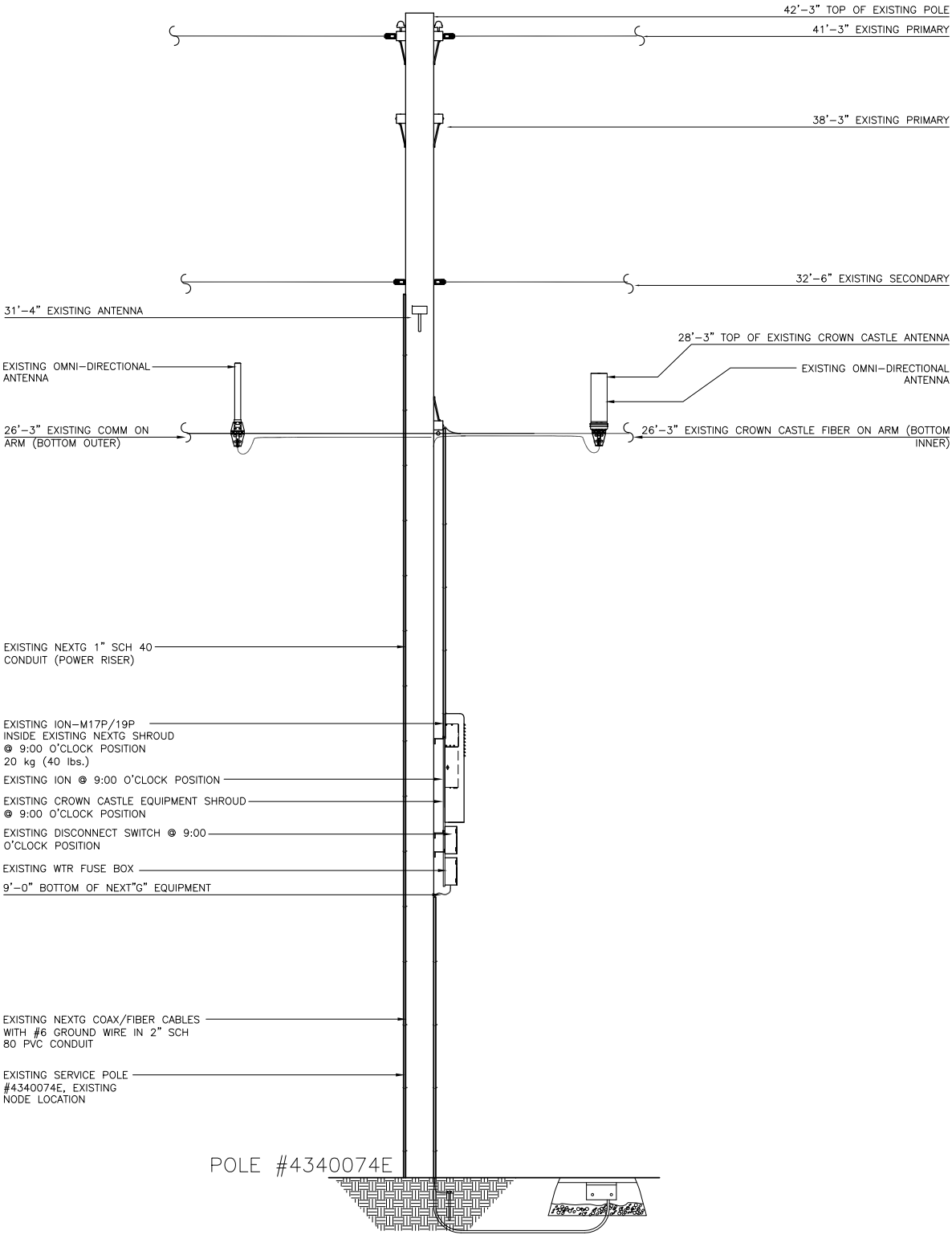
A-1



EXISTING ELEVATION LOOKING WEST

SCALE: 3/8"=1'-0"
0 1' 2' 3'

1



EXISTING ELEVATION LOOKING NORTH

SCALE: 3/8"=1'-0"
0 1' 2' 3'

2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/25/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:
SITE NAME: MON13 VERIZON MONTECITO-MON13
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3 R.O.W. NORTH SIDE OF ORTEGA HILL RD (ADJACENT TO 2101 SUMMERLAND HEIGHTS RD) SANTA BARBARA, CA 93108 LAT: 34.423900° LONG: -119.608410°

SHEET TITLE:

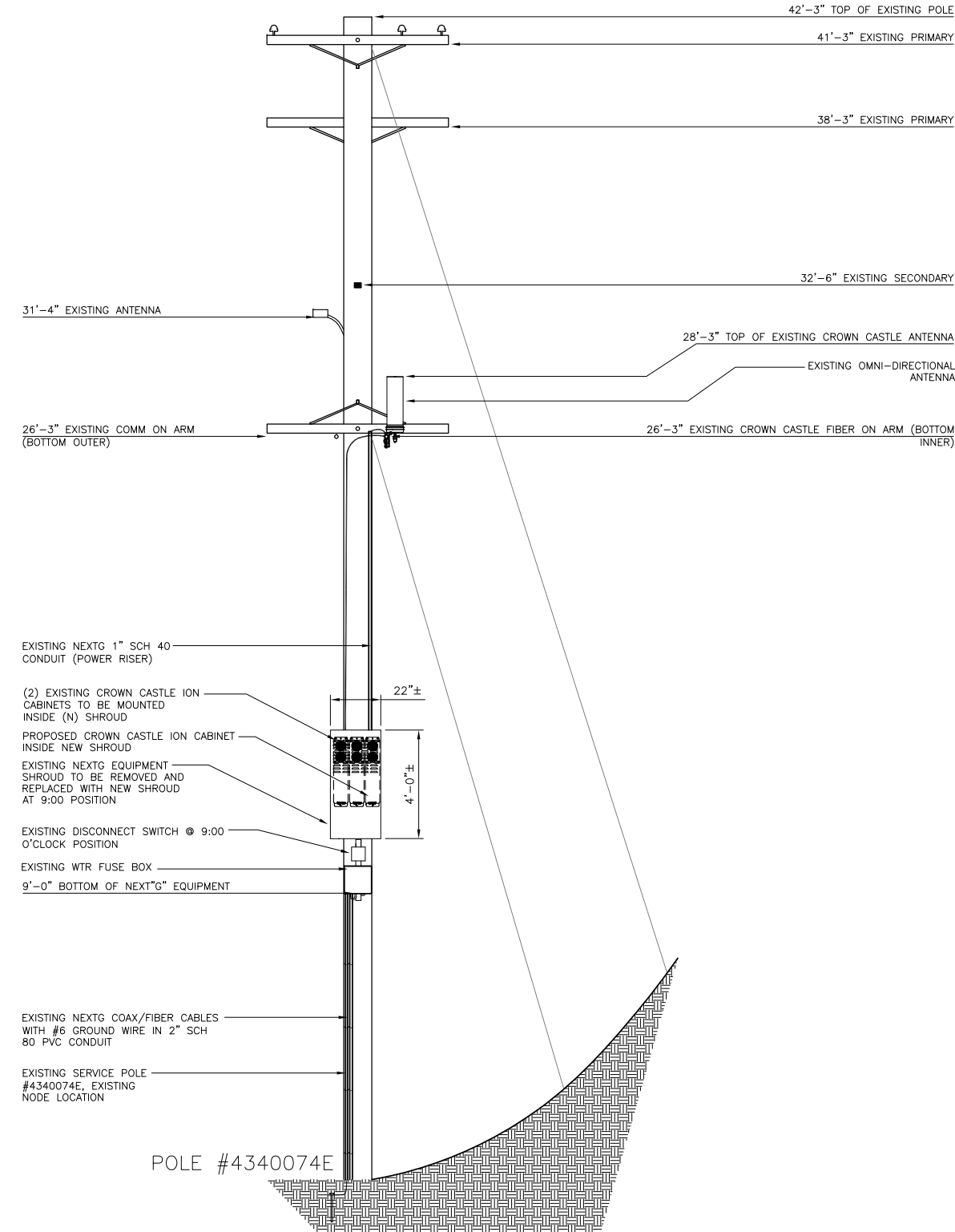
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2



NOTE:

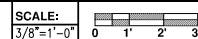
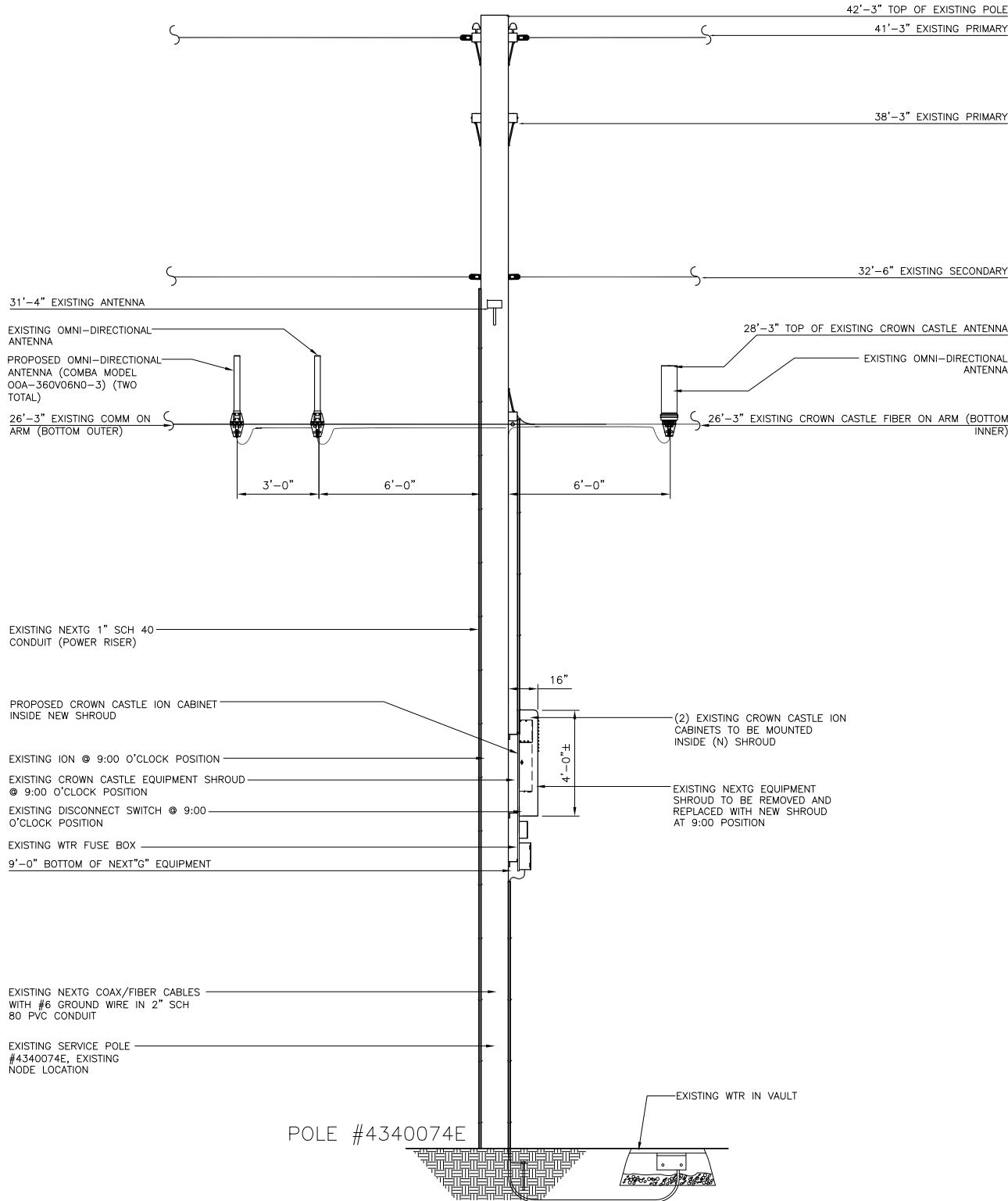
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

PROPOSED ELEVATION LOOKING WEST



1

PROPOSED ELEVATION LOOKING NORTH



2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/25/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

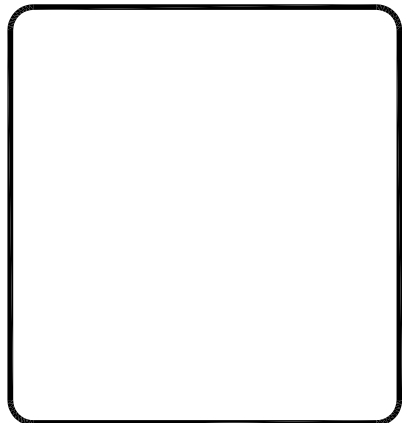
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON13
VERIZON MONTECITO-MON13

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. NORTH SIDE OF ORTEGA HILL RD
(ADJACENT TO 2101 SUMMERLAND HEIGHTS RD)
SANTA BARBARA, CA 93108
LAT: 34.423900°
LONG: -119.608410°

SHEET TITLE:

ELEVATION

DRAWING INFO:

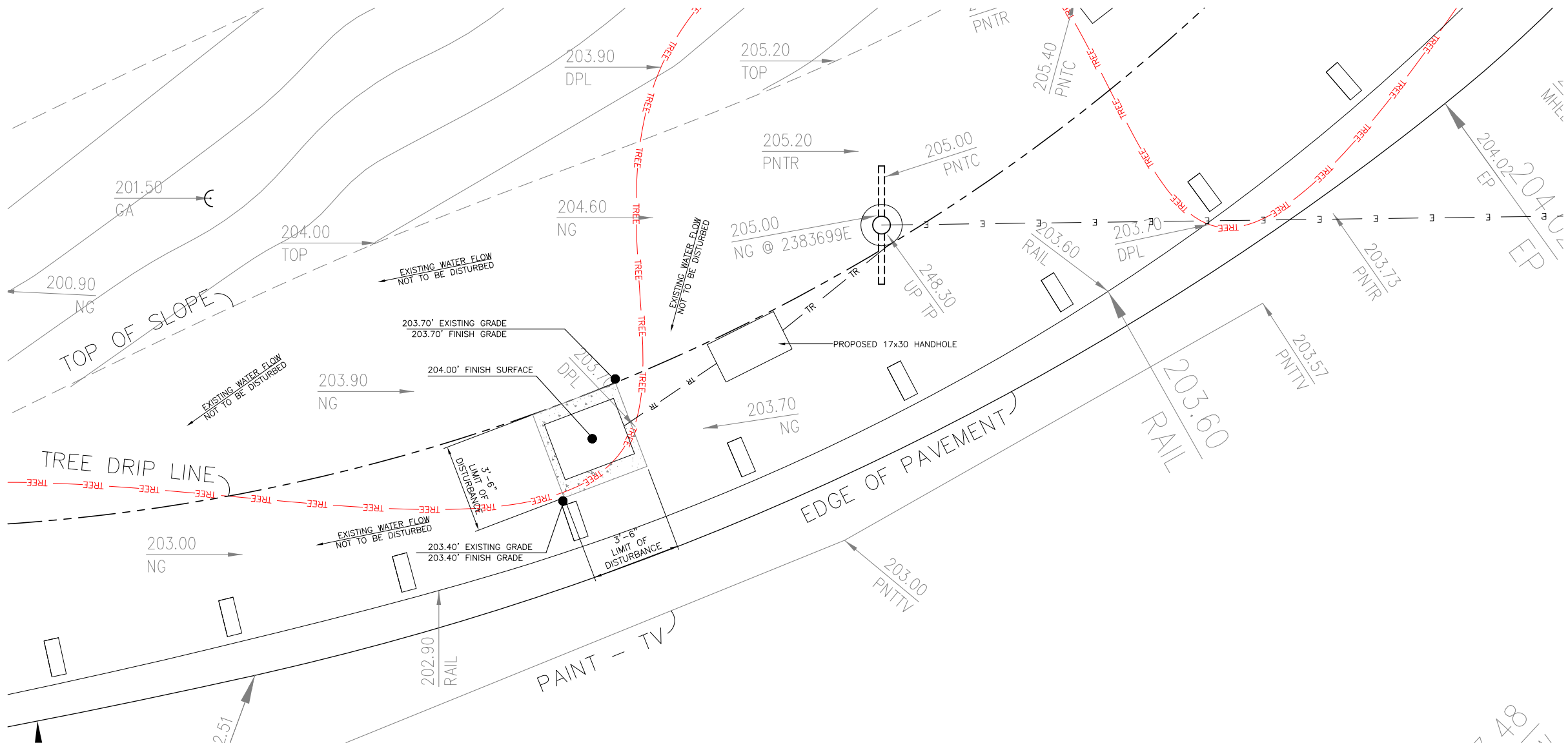
DRAWN BY:
FC

SHEET NUMBER:

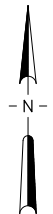
A-3

NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION	
CONCRETE PAD:	2.997 CF
HANDHOLE:	7.5 CF
12'Lx3'Dx.5'W TRENCH:	18.00 CF
TOTAL:	28.497 CF



LEGEND	
TREE DRIP LINE	TREE
CAL OAK DRIP LINE	OAK
TRENCH	TR
CAL OAK	CAL OAK



REV.	DATE/BY:	REVISION DESCRIPTION:
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1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

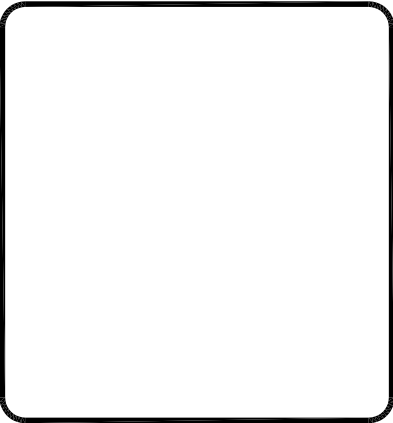
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON13
VERIZON MONTECITO-MON13
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. NORTH SIDE OF ORTEGA HILL RD
(ADJACENT TO 2101 SUMMERLAND HEIGHTS RD)
SANTA BARBARA, CA 93108
LAT: 34.423900°
LONG: -119.608410°

SHEET TITLE:

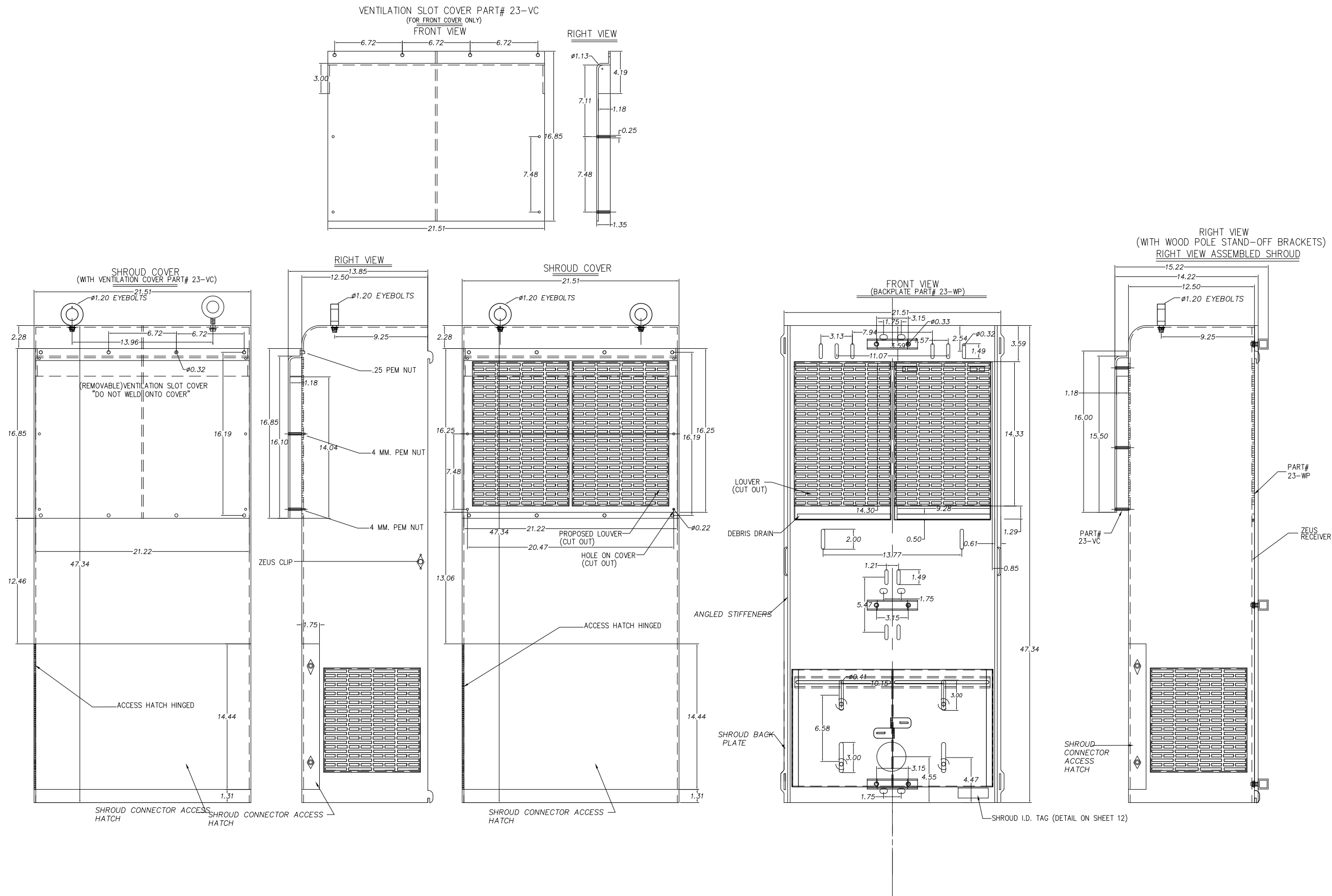
GRADING PLAN

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-4



REV.	DATE/BY:	REVISION DESCRIPTION:
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1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:	
SITE NAME: MON13 VERIZON MONTECITO-MON13	
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3 R.O.W. NORTH SIDE OF ORTEGA HILL RD (ADJACENT TO 2101 SUMMERLAND HEIGHTS RD) SANTA BARBARA, CA 93108 LAT: 34.423900° LONG: -119.608410°	

SHEET TITLE:

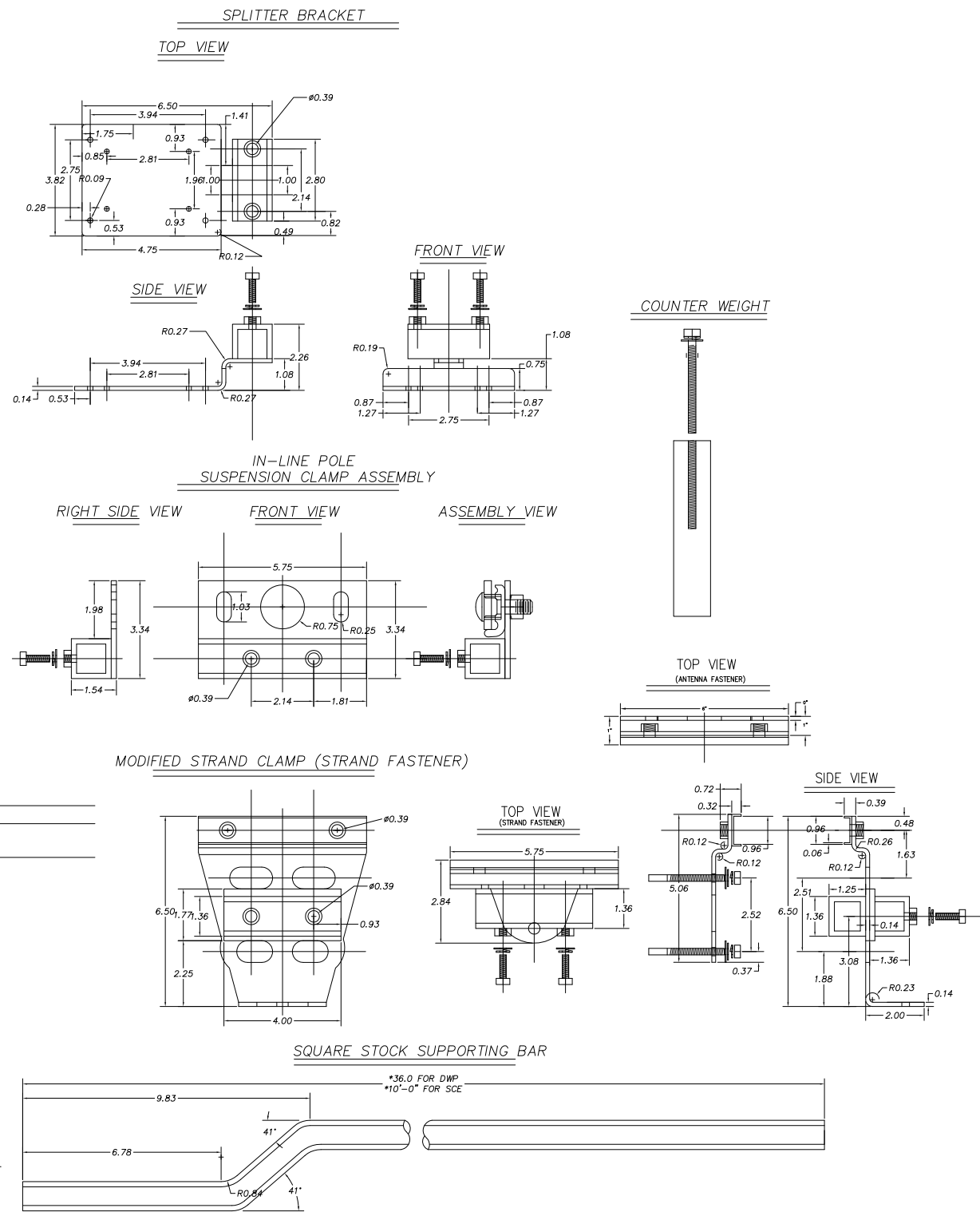
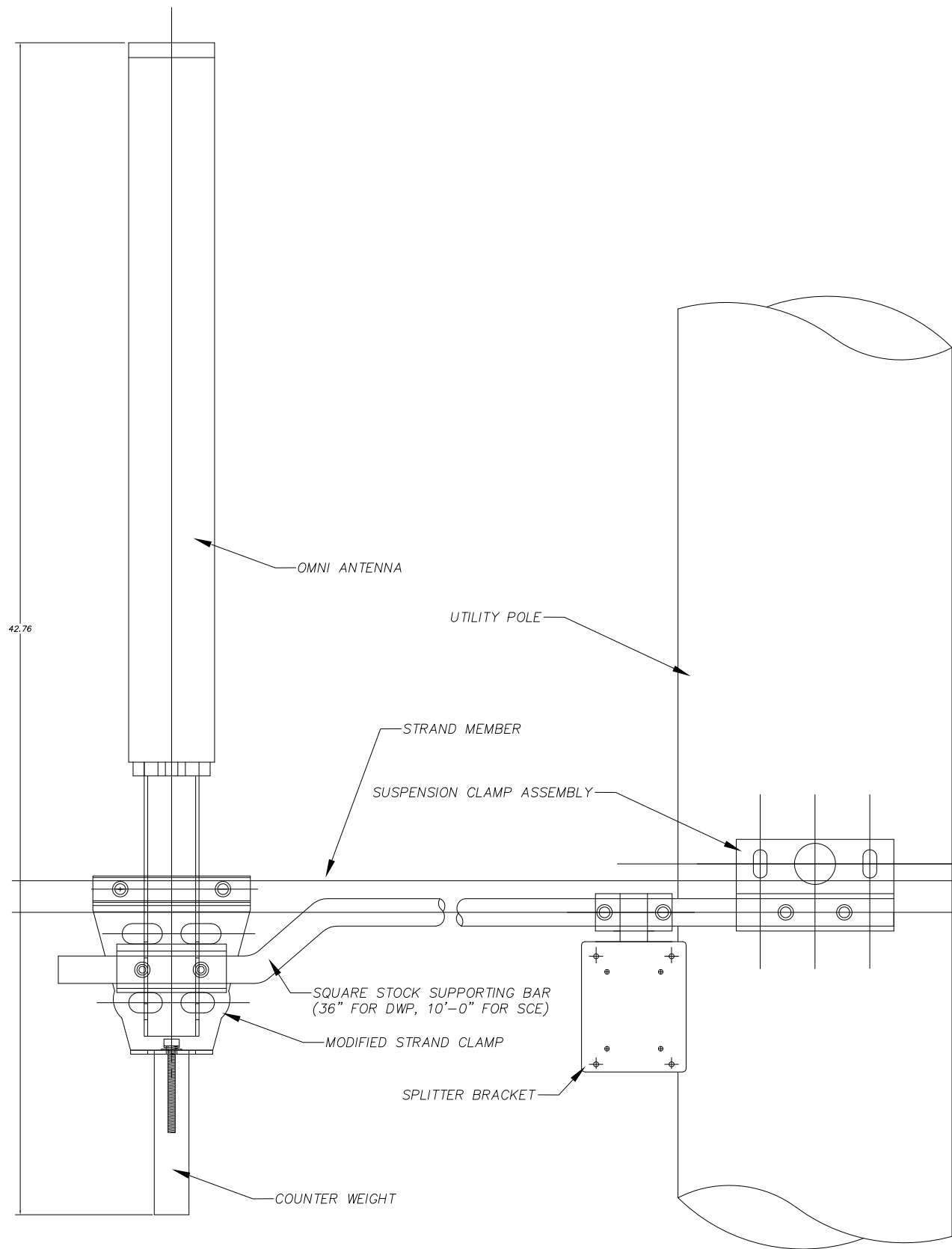
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

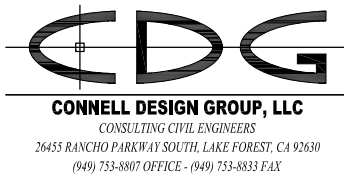
D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/25/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 08/05/2013	ISSUED FOR FINAL
3	FXC 11/05/2013	ISSUED FOR FINAL
4	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

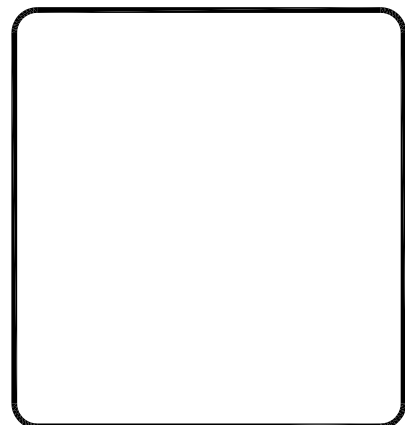
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON13
VERIZON MONTECITO-MON13
SITE ADDRESS: THOMAS BROS PAGE 997 GRID C3
R.O.W. NORTH SIDE OF ORTEGA HILL RD
(ADJACENT TO 2101 SUMMERLAND HEIGHTS RD)
SANTA BARBARA, CA 93108
LAT: 34.423900°
LONG: -119.608410°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT VAULT AT BASE OF EXISTING POLE
3. EQUIPMENT PEDESTAL W/ BBU AND ELECTRICAL METER AT BASE OF POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
GRADING PLAN	A-3 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON14

R.O.W. NORTH SIDE OF JAMESON LN

(ADJACENT TO 1930 JAMESON LN)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			

SYMBOLS, LINETYPES AND HATCH PATTERNS

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. NORTH SIDE OF JAMESON LN
(ADJACENT TO 1930 JAMESON LN)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
2	SA 09/05/2013	ISSUED FOR APPROVAL
3	FXC 11/05/2013	ISSUED FOR APPROVAL
4	FXC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

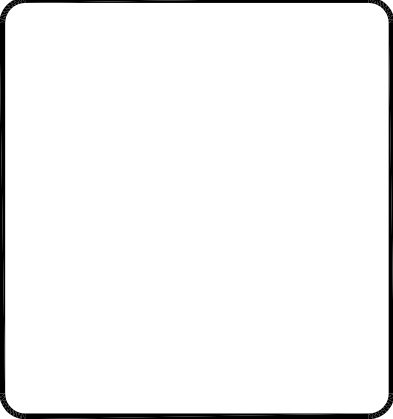
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON14
VERIZON MONTECITO-MON14

SITE ADDRESS: THOMAS BROS PAGE 997 GRID B3
R.O.W. NORTH SIDE OF JAMESON LN
(ADJACENT TO 1930 JAMESON LN)
SANTA BARBARA, CA 93108
LAT: 34.42241
LONG: -119.61458

SHEET TITLE:

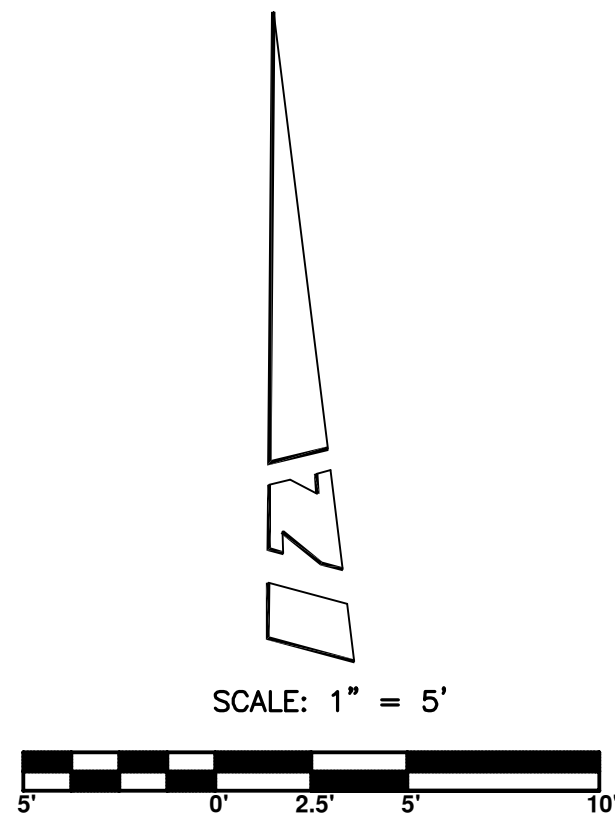
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1



CONDOMINIUM PLAN FOR LOT 1
OF TRACT NO. 11390
M.B. 102 / 76 - 86

PARCEL 27
(COMMON AREA)
A.P.N. 007-440-001
THROUGH -026
(1930 N. JAMESON LN)

LEGEND:

- CDSK COPPER DISK
- C-NL CONCRETE NAIL
- DPL DRIP LINE
- EP EDGE OF PAVEMENT
- FD FOUND
- GL GUTTER LIP
- IP IRON PIPE
- LTT LEAD, TACK, AND TAG
- N/T NAIL AND TAG
- NG NATURAL GROUND
- PK PK NAIL
- RBR REBAR
- SS STREET SIGN
- TC TOP OF CURB
- TP TOP
- TR TREE
- TW TOP OF WALL
- UP UTILITY POLE
- WTL WHITE TRAVEL LINE
- BLOCK WALL
- CENTERLINE
- FOUND MONUMENT
- STREET SIGN
- UTILITY POLE

COORDINATES:

LATITUDE 34°25'20.57" N
LONGITUDE 119°36'52.41" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASHTech" G.P.S. RECEIVERS AND ASHTech SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF SHEFFIELD DRIVE BEING SOUTH 40°58'00" EAST PER FOUND MONUMENTS ON RECORD OF SURVEY, R.S.B. 170/72, RECORDS OF SANTA BARBARA COUNTY. (NOT SHOWN HEREON)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 56"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 56" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 58.5 FEET A.M.S.L. (NAV88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

AUGUST 01, 2013

SURVEYORS NOTE:

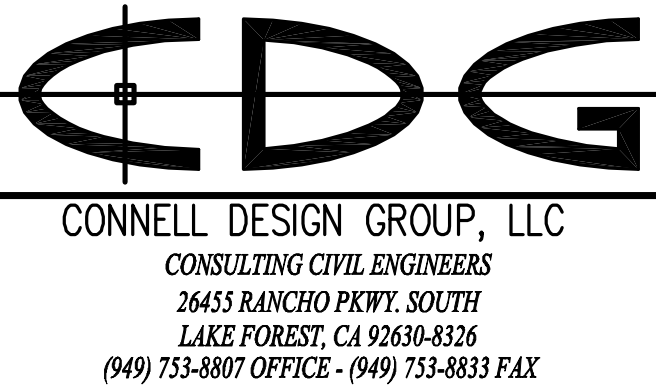
THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	08/07/13 RF	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:

BERT HAZE
AND ASSOCIATES, INC.

LAND SURVEYING & MAPPING
3188 AIRWAY AVENUE, SUITE K1
COSTA MESA, CALIFORNIA 92626
714 557-1567 OFFICE
714 557-1568 FAX

JN. 706.227

STAMP:



SITE INFO:

SITE NAME:

MON14
VERIZON MONTECITO-MON14

SITE ADDRESS:

R.O.W. NORTH SIDE OF N. JAMESON LN
(ADJACENT TO 1930 N. JAMESON LN)
SANTA BARBARA, CA 93108

SHEET TITLE:

TOPOGRAPHIC SURVEY

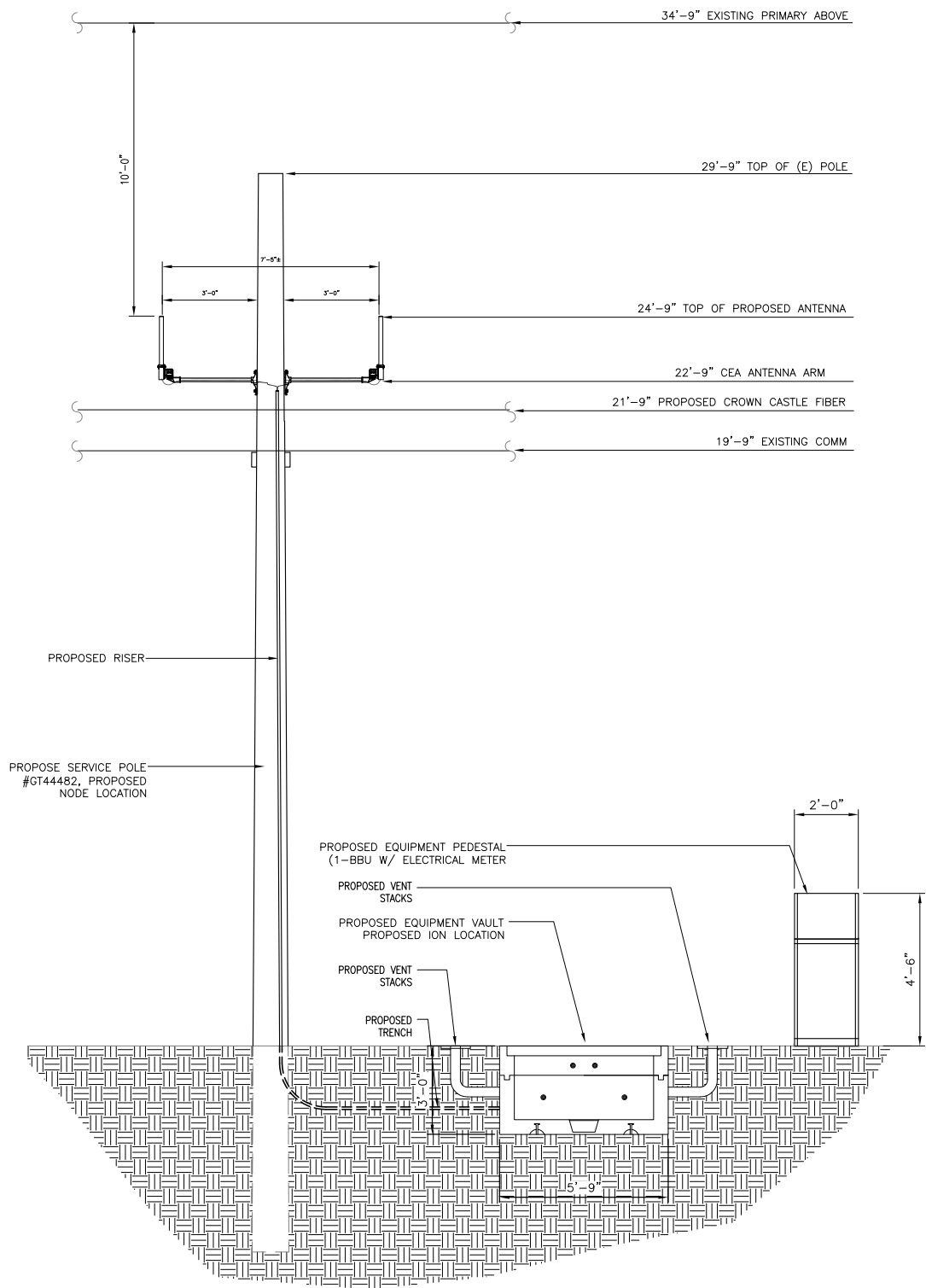
DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON14	MDL	08/07/13

SHEET NUMBER:

1 OF 1
C-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

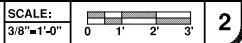
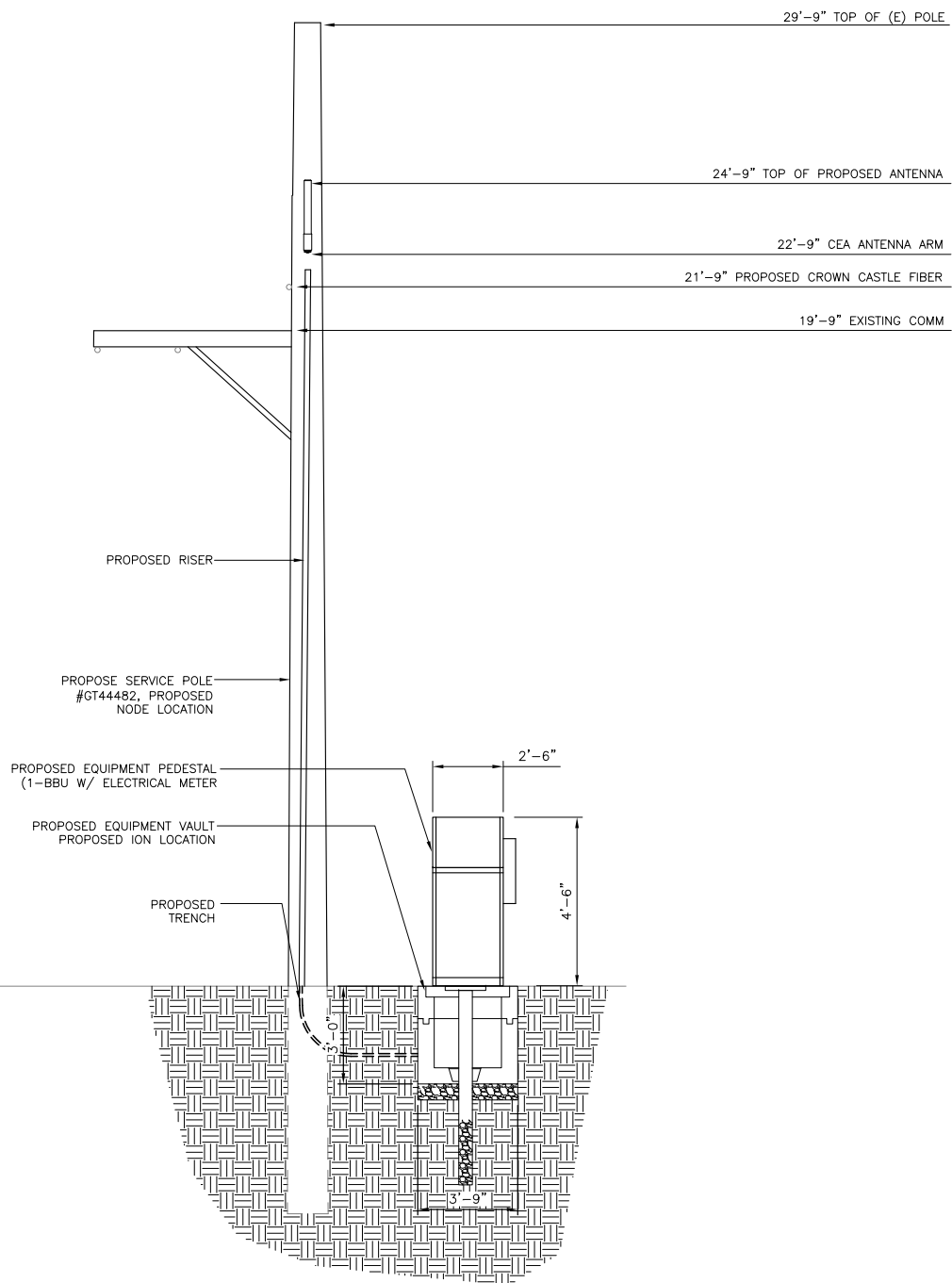


PROPOSED ELEVATION LOOKING NORTH



1

PROPOSED ELEVATION LOOKING WEST



2

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
2	SA 09/05/2013	ISSUED FOR APPROVAL
3	FXC 11/05/2013	ISSUED FOR APPROVAL
4	FXC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:	
SITE NAME:	MON14 VERIZON MONTECITO-MON14
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID B3 R.O.W. NORTH SIDE OF JAMESON LN (ADJACENT TO 1930 JAMESON LN) SANTA BARBARA, CA 93108 LAT: 34.42241 LONG: -119.61458

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

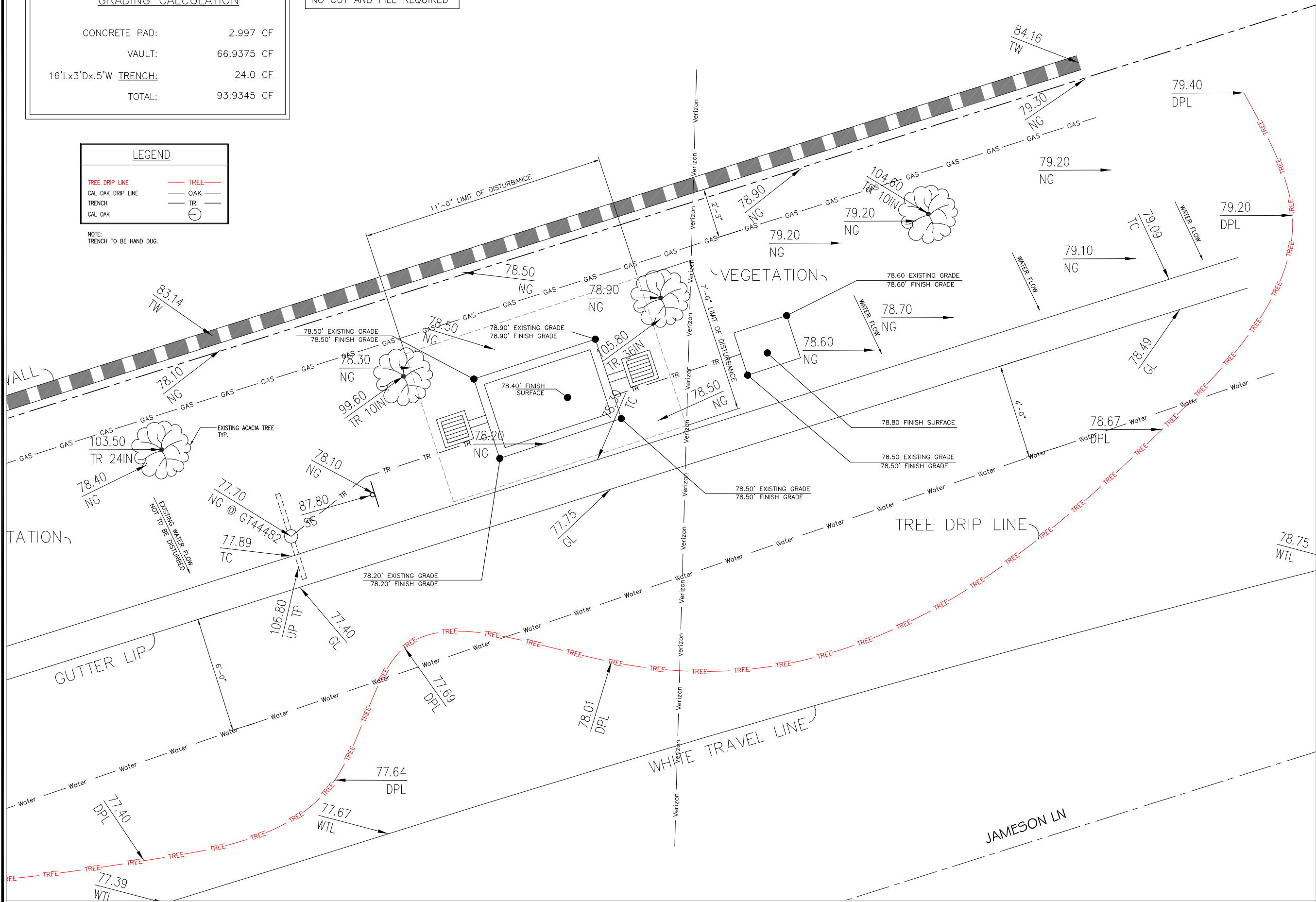
A-2

GRADING CALCULATION	
CONCRETE PAD:	2.997 CF
VAULT:	66.9375 CF
16'Lx3'Dx.5'W TRENCH:	24.0 CF
TOTAL:	93.9345 CF

NOTE:
NO CUT AND FILL REQUIRED

LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	—

NOTE:
TRENCH TO BE HAND DUG.



REV.	DATE/BY:	REVISION DESCRIPTION:
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4	FXC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



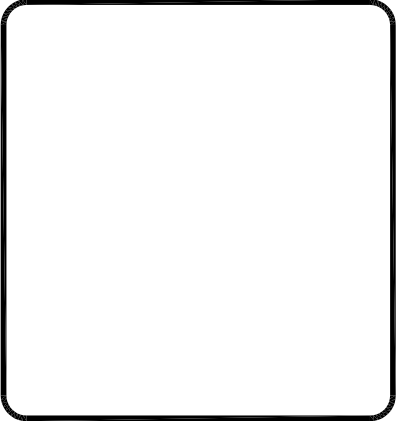
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON14
VERIZON MONTECITO-MON14
SITE ADDRESS: THOMAS BROS PAGE 997 GRID B3
R.O.W. NORTH SIDE OF JAMESON LN
(ADJACENT TO 1930 JAMESON LN)
SANTA BARBARA, CA 93108
LAT: 34.42241
LONG: -119.61458

SHEET TITLE:

SITE PLAN AND
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3

Outdoor Omni-directional Antenna

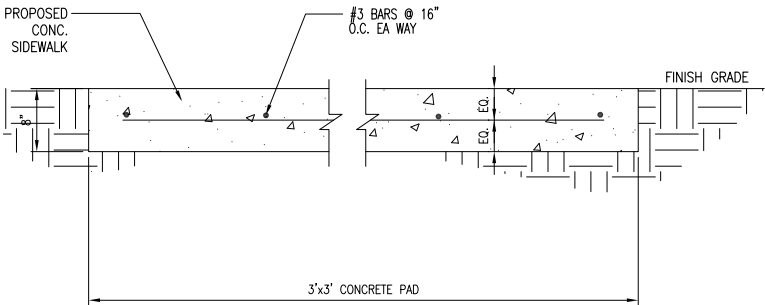
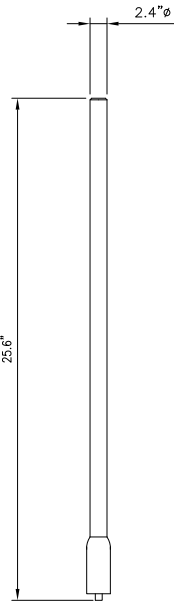
COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

Technical Specifications

Electrical				
Frequency Range	MHz	696–960	1710–2170	
Polarization		Vertical		
Gain	dBi	4.0±1	6.0±1	
Horizontal Beamwidth	deg	360		
Vertical Beamwidth	deg	22–53	20–26	
Electrical Downtilt–Fixed	deg	0		
VSWR		1.8		
Maximum Power	W	200		
Impedance		50		
Lightning Protection		Direct Ground		

Mechanical				
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)		
Weight, with Mounting kit	kg (lb)	1 (2.2)		
Radome Material and Color		Fiberglass, Light Grey		
Radiating Element Material		Copper		
Connector Type and Location		N–Female, Bottom		
Operational Temperature		–55 to +70		
Operational Humidity	%	95		
Operational Wind Speed	km/h (mph)	200 (124)		
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)		
Shipping Weight	kg (lb)	1.2 (2.65)		



ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		698 to 716/776 to 787
Uplink		
Downlink		728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		824 to 849
Uplink		
Downlink		869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO



ION-M7P/7P/85P/19P

Noise figure, dB		ICP3 optimized : +10 max. Noise figure optimized : +6 max. 4.5 typical
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Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
-------------------------------	---------------------------------------

Weight, kg (lb)	40 (88.2)
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Page 1, February 27, 2013

Company Confidential

ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

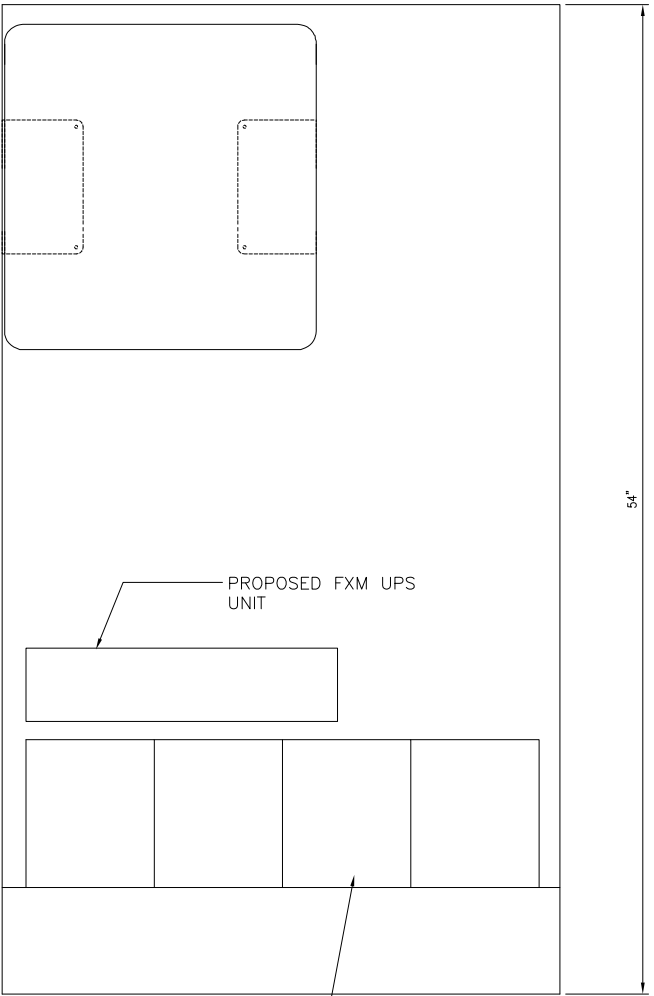
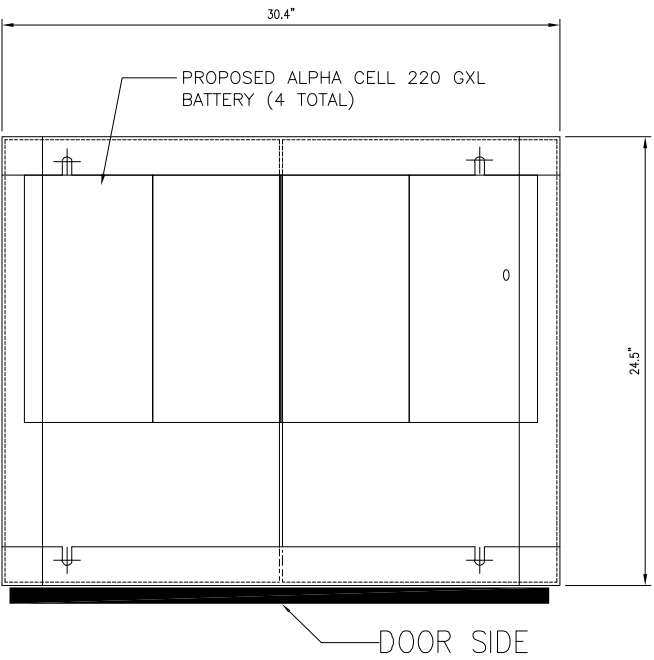
N.T.S.

4

EQUIPMENT PEDESTAL

N.T.S.

5



PROPOSED ALPHA CELL 220 GXL
BATTERY (4 TOTAL)

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON14 VERIZON MONTECITO–MON14
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID B3 R.O.W. NORTH SIDE OF JAMESON LN (ADJACENT TO 1930 JAMESON LN) SANTA BARBARA, CA 93108 LAT: 34.42241 LONG: –119.61458

SHEET TITLE:

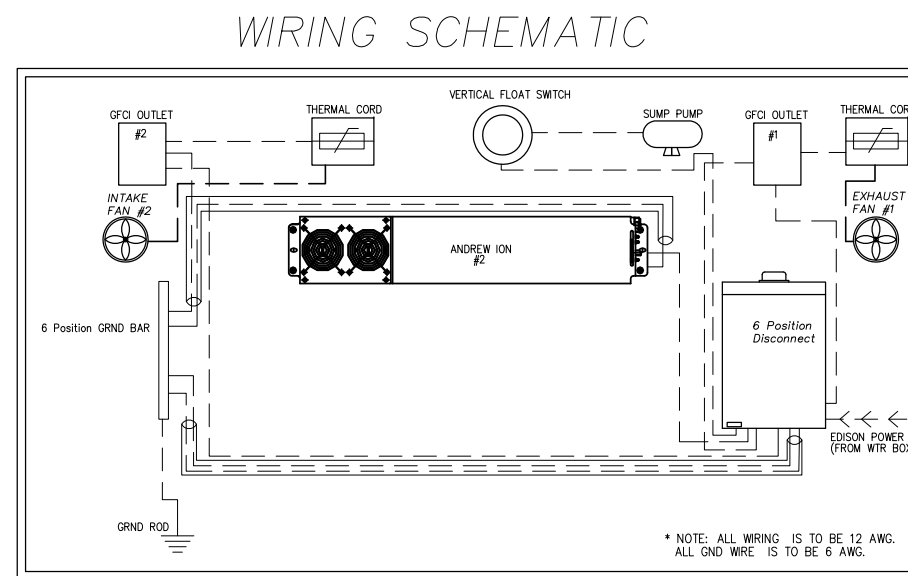
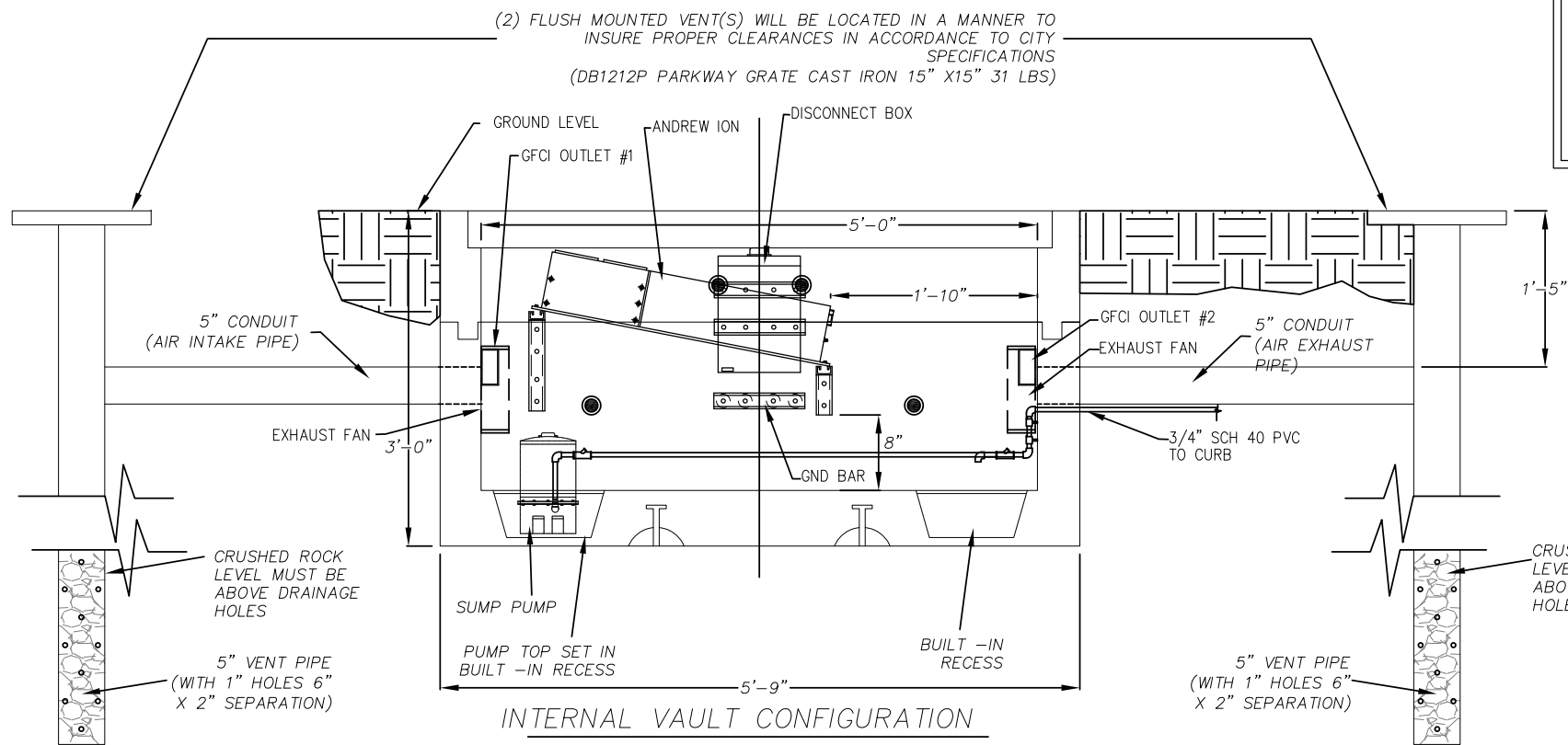
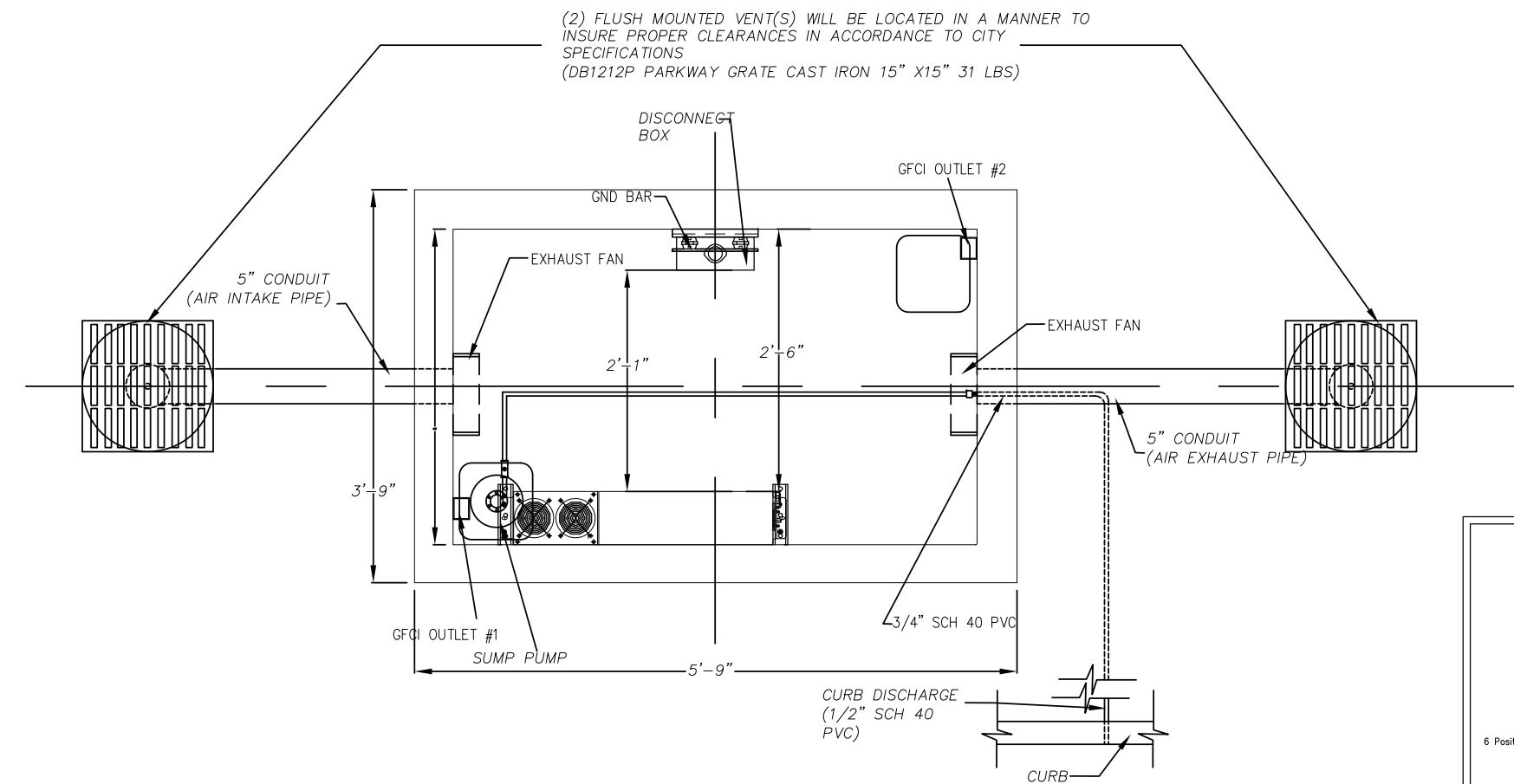
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D–1



— — — GROUND WIRE (6 AWG)
— — — POWER WIRE (12 AWG)
1/2" LIQUIDTIGHT FLEX

* VENTS CAN BE FIELD CONFIGURED TO REDUCE OVER ALL FOOT PRINT AND AID REDUCING THE IMPACT ON THE SURROUNDING ENVIRONMENT.

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4	FXC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



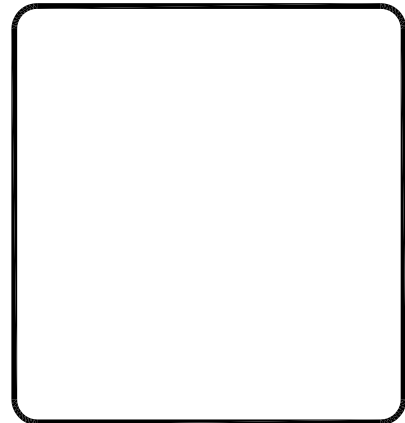
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

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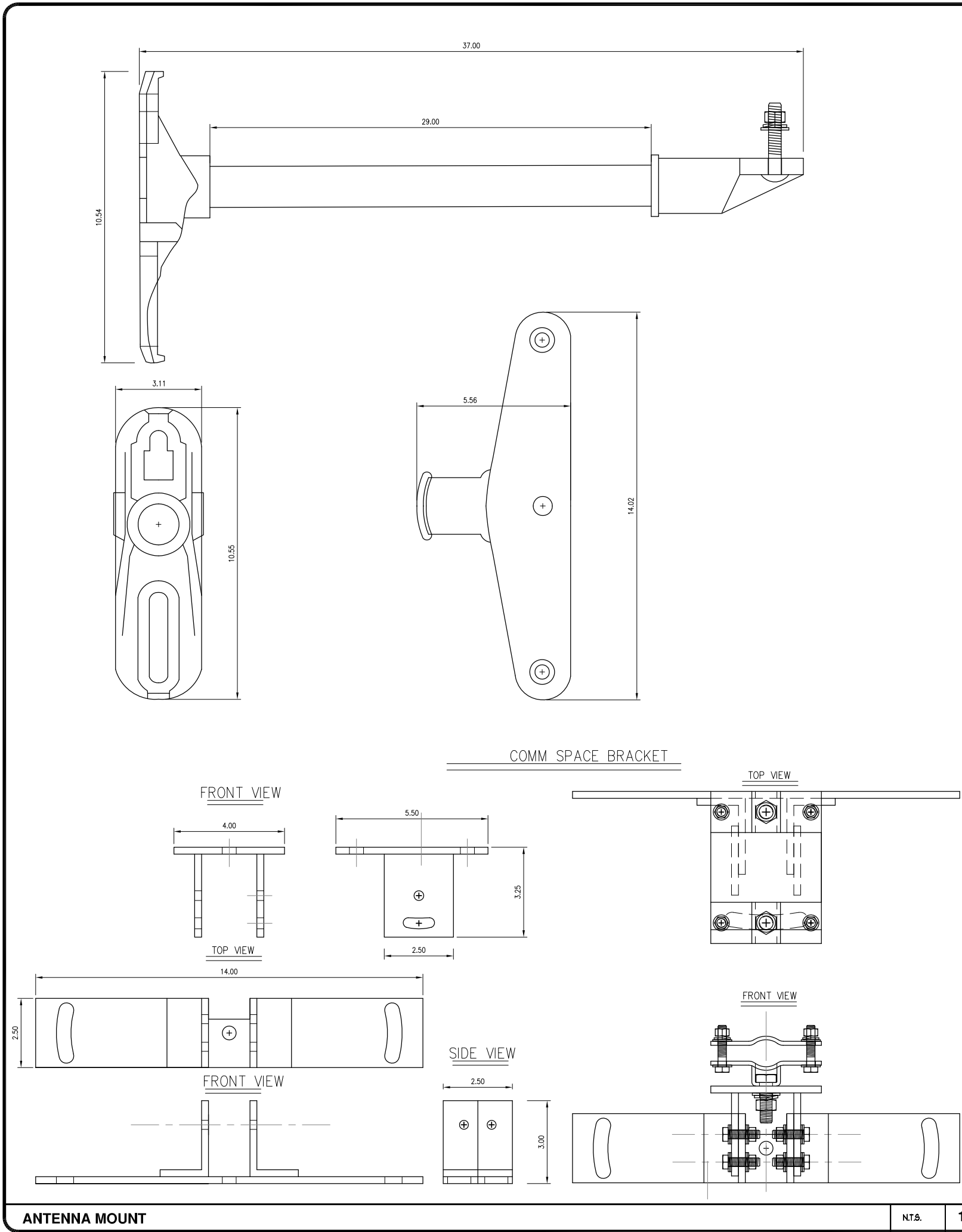
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2



ANTENNA MOUNT

N.T.S.

1

BATTERY SPECIFICATIONS

N.T.S.

2

AlphaCell

General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Specifications³

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2900	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.8	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:

¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

² Runtime is calculated using a 25A DC constant current load.

³ Dimensions at top of battery.

⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A	40A	42A	44A	46A	48A	50A	52A	54A	56A	58A	60A	62A	64A	66A	68A	70A	72A	74A	76A	78A	80A	82A	84A	86A	88A	90A	92A	94A	96A	98A	100A	102A	104A	106A	108A	110A	112A	114A	116A	118A	120A	122A	124A	126A	128A	130A	132A	134A	136A	138A	140A	142A	144A	146A	148A	150A	152A	154A	156A	158A	160A	162A	164A	166A	168A	170A	172A	174A	176A	178A	180A	182A	184A	186A	188A	190A	192A	194A	196A	198A	200A	202A	204A	206A	208A	210A	212A	214A	216A	218A	220A	222A	224A	226A	228A	230A	232A	234A	236A	238A	240A	242A	244A	246A	248A	250A	252A	254A	256A	258A	260A	262A	264A	266A	268A	270A	272A	274A	276A	278A	280A	282A	284A	286A	288A	290A	292A	294A	296A	298A	300A	302A	304A	306A	308A	310A	312A	314A	316A	318A	320A	322A	324A	326A	328A	330A	332A	334A	336A	338A	340A	342A	344A	346A	348A	350A	352A	354A	356A	358A	360A	362A	364A	366A	368A	370A	372A	374A	376A	378A	380A	382A	384A	386A	388A	390A	392A	394A	396A	398A	400A	402A	404A	406A	408A	410A	412A	414A	416A	418A	420A	422A	424A	426A	428A	430A	432A	434A	436A	438A	440A	442A	444A	446A	448A	450A	452A	454A	456A	458A	460A	462A	464A	466A	468A	470A	472A	474A	476A	478A	480A	482A	484A	486A	488A	490A	492A	494A	496A	498A	500A	502A	504A	506A	508A	510A	512A	514A	516A	518A	520A	522A	524A	526A	528A	530A	532A	534A	536A	538A	540A	542A	544A	546A	548A	550A	552A	554A	556A	558A	560A	562A	564A	566A	568A	570A	572A	574A	576A	578A	580A	582A	584A	586A	588A	590A	592A	594A	596A	598A	600A	602A	604A	606A	608A	610A	612A	614A	616A	618A	620A	622A	624A	626A	628A	630A	632A	634A	636A	638A	640A	642A	644A	646A	648A	650A	652A	654A	656A	658A	660A	662A	664A	666A	668A	670A	672A	674A	676A	678A	680A	682A	684A	686A	688A	690A	692A	694A	696A	698A	700A	702A	704A	706A	708A	710A	712A	714A	716A	718A	720A	722A	724A	726A	728A	730A	732A	734A	736A	738A	740A	742A	744A	746A	748A	750A	752A	754A	756A	758A	760A	762A	764A	766A	768A	770A	772A	774A	776A	778A	780A	782A	784A	786A	788A	790A	792A	794A	796A	798A	800A	802A	804A	806A	808A	810A	812A	814A	816A	818A	820A	822A	824A	826A	828A	830A	832A	834A	836A	838A	840A	842A	844A	846A	848A	850A	852A	854A	856A	858A	860A	862A	864A	866A	868A	870A	872A	874A	876A	878A	880A	882A	884A	886A	888A	890A	892A	894A	896A	898A	900A	902A	904A	906A	908A	910A	912A	914A	916A	918A	920A	922A	924A	926A	928A	930A	932A	934A	936A	938A	940A	942A	944A	946A	948A	950A	952A	954A	956A	958A	960A	962A	964A	966A	968A	970A	972A	974A	976A	978A	980A	982A	984A	986A	988A	990A	992A	994A	996A	998A	1000A	1002A	1004A	1006A	1008A	1010A	1012A	1014A	1016A	1018A	1020A	1022A	1024A	1026A	1028A	1030A	1032A	1034A	1036A	1038A	1040A	1042A	1044A	1046A	1048A	1050A	1052A	1054A	1056A	1058A	1060A	1062A	1064A	1066A	1068A	1070A	1072A	1074A	1076A	1078A	1080A	1082A	1084A	1086A	1088A	1090A	1092A	1094A	1096A	1098A	1100A	1102A	1104A	1106A	1108A	1110A	1112A	1114A	1116A	1118A	1120A	1122A	1124A	1126A	1128A	1130A	1132A	1134A	1136A	1138A	1140A	1142A	1144A	1146A	1148A	1150A	1152A	1154A	1156A	1158A	1160A	1162A	1164A	1166A	1168A	1170A	1172A	1174A	1176A	1178A	1180A	1182A	1184A	1186A	1188A	1190A	1192A	1194A	1196A	1198A	1200A	1202A	1204A	1206A	1208A	1210A	1212A	1214A	1216A	1218A	1220A	1222A	1224A	1226A	1228A	1230A	1232A	1234A	1236A	1238A	1240A	1242A	1244A	1246A	1248A	1250A	1252A	1254A	1256A	1258A	1260A	1262A	1264A	1266A	1268A	1270A	1272A	1274A	1276A	1278A	1280A	1282A	1284A	1286A	1288A	1290A	1292A	1294A	1296A	1298A	1300A	1302A	1304A	1306A	1308A	1310A	1312A	1314A	1316A	1318A	1320A	1322A	1324A	1326A	1328A	1330A	1332A	1334A	1336A	1338A	1340A	1342A	1344A	1346A	1348A	1350A	1352A	1354A	1356A	1358A	1360A	1362A	1364A	1366A	1368A	1370A	1372A	1374A	1376A	1378A	1380A	1382A	1384A	1386A	1388A	1390A	1392A	1394A	1396A	1398A	1400A	1402A	1404A	1406A	1408A	1410A	1412A	1414A	1416A	1418A	1420A	1422A	1424A	1426A	1428A	1430A	1432A	1434A	1436A	1438A	1440A	1442A	1444A	1446A	1448A	1450A	1452A	1454A	1456A	1458A	1460A	1462A	1464A	1466A	1468A	1470A	1472A	1474A	1476A	1478A	1480A	1482A	1484A	1486A	1488A	1490A	1492A	1494A	1496A	1498A	1500A	1502A	1504A	1506A	1508A	1510A	1512A	1514A	1516A	1518A	1520A	1522A	1524A	1526A	1528A	1530A	1532A	1534A	1536A	1538A	1540A	1542A	1544A	1546A	1548A	1550A	1552A	1554A	1556A	1558A	1560A	1562A	1564A	1566A	1568A	1570A	1572A	1574A	1576A	1578A	1580A	1582A	1584A	1586A	1588A	1590A	1592A	1594A	1596A	1598A	1600A	1602A	1604A	1606A	1608A	1610A	1612A	1614A	1616A	1618A	1620A	1622A	1624A	1626A	1628A	1630A	1632A	1634A	1636A	1638A	1640A	1642A	1644A	1646A	1648A	1650A	1652A	1654A	1656A	1658A	1660A	1662A	1664A	1666A	1668A	1670A	1672A	1674A	1676A	1678A	1680A	1682A	1684A	1686A	1688A	1690A	1692A	1694A	1696A	1698A	1700A	1702A	1704A	1706A	1708A	1710A	1712A	1714A	1716A	1718A	1720A	1722A	1724A	1726A	1728A	1730A	1732A	1734A	1736A	1738A	1740A	1742A	1744A	1746A	1748A	1750A	1752A	1754A	1756A	1758A	1760A	1762A	1764A	1766A	1768A	1770A	1772A	1774A	1776A	1778A	1780A	1782A	1784A	1786A	1788A	1790A	1792A	1794A	1796A	1798A	1800A	1802A	1804A	1806A	1808A	1810A	1812A	1814A	1816A	1818A	1820A	1822A	1824A	1826A	1828A	1830A	1832A	1834A	1836A	1838A	1840A	1842A	1844A	1846A	1848A	1850A	1852A	1854A	1856A	1858A	1860A	1862A	1864A	1866A	1868A	1870A	1872A	1874A	1876A	1878A	1880A	1882A	1884A	1886A	1888A	1890A	1892A	1894A	1896A	1898A	1900A	1902A	1904A	1906A	1908A	1910A	1912A	1914A	1916A	1918A	1920A	1922A	1924A	1926A	1928A	1930A	1932A	1934A	1936A	1938A	1940A	1942A	1944A	1946A	1948A	1950A	1952A	1954A	1956A	1958A	1960A	1962A	1964A	1966A	1968A	1970A	1972A	1974A	1976A	1978A	1980A	1982A	1984A	1986A	1988A	1990A	1992A	1994A	1996A	1998A	2000A	2002A	2004A	2006A	2008A	2010A	2012A	2014A	2016A	2018A	2020A	2022A	2024A	2026A	2028A	2030A	2032A	2034A	2036A	2038A	2040A	2042A	2044A	2046A	2048A	2050A	2052A	2054A	2056A	2058A	2060A	2062A	2064A	2066A	2068A	2070A	2072A	2074A	2076A	2078A	2080A	2082A	2084A	2086A	2088A	2090A	2092A	2094A	2096A	2098A	2100A	2102A	2104A	2106A	2108A	2110A	2112A	2114A	2116A	2118A	2120A	2122A	2124A	2126A	2128A	2130A	2132A	2134A	2136A	2138A	2140A
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GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. ION, BBU ON EXISTING UTILITY POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 8
SURVEY	LS1 - SHEET 2 OF 8
SITE PLAN	A-1 - SHEET 3 OF 8
PROPOSED ELEVATIONS	A-2 - SHEET 4 OF 8
ESH AREA PLAN	A-4 - SHEET 5 OF 8
DETAILS	D-1 - SHEET 6 OF 8
DETAILS	D-2 - SHEET 7 OF 8
DETAILS	D-3 - SHEET 8 OF 8

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON15
R.O.W. NORTH SIDE OF JAMESON LN.
(ADJACENT TO 130 TIBURON BAY LN)
SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. NORTH SIDE OF JAMESON LN.
(ADJACENT TO 130 TIBURON BAY LN)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
1	SA 03/18/2013	ISSUED FOR APPROVAL
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4	FXC 01/24/2014	ISSUED FOR APPROVAL
5	FXC 05/13/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE INFO:	
SITE NAME:	MON15 VERIZON MONTECITO-MON15
SITE ADDRESS:	THOMAS BROS PAGE 997 GRID A4 R.O.W. NORTH SIDE OF JAMESON LN. (ADJACENT TO 115 TIBURON BAY LN) SANTA BARBARA, CA 93108 LAT: 34.421167 LONG: -119.625072

SHEET TITLE:

TITLE SHEET

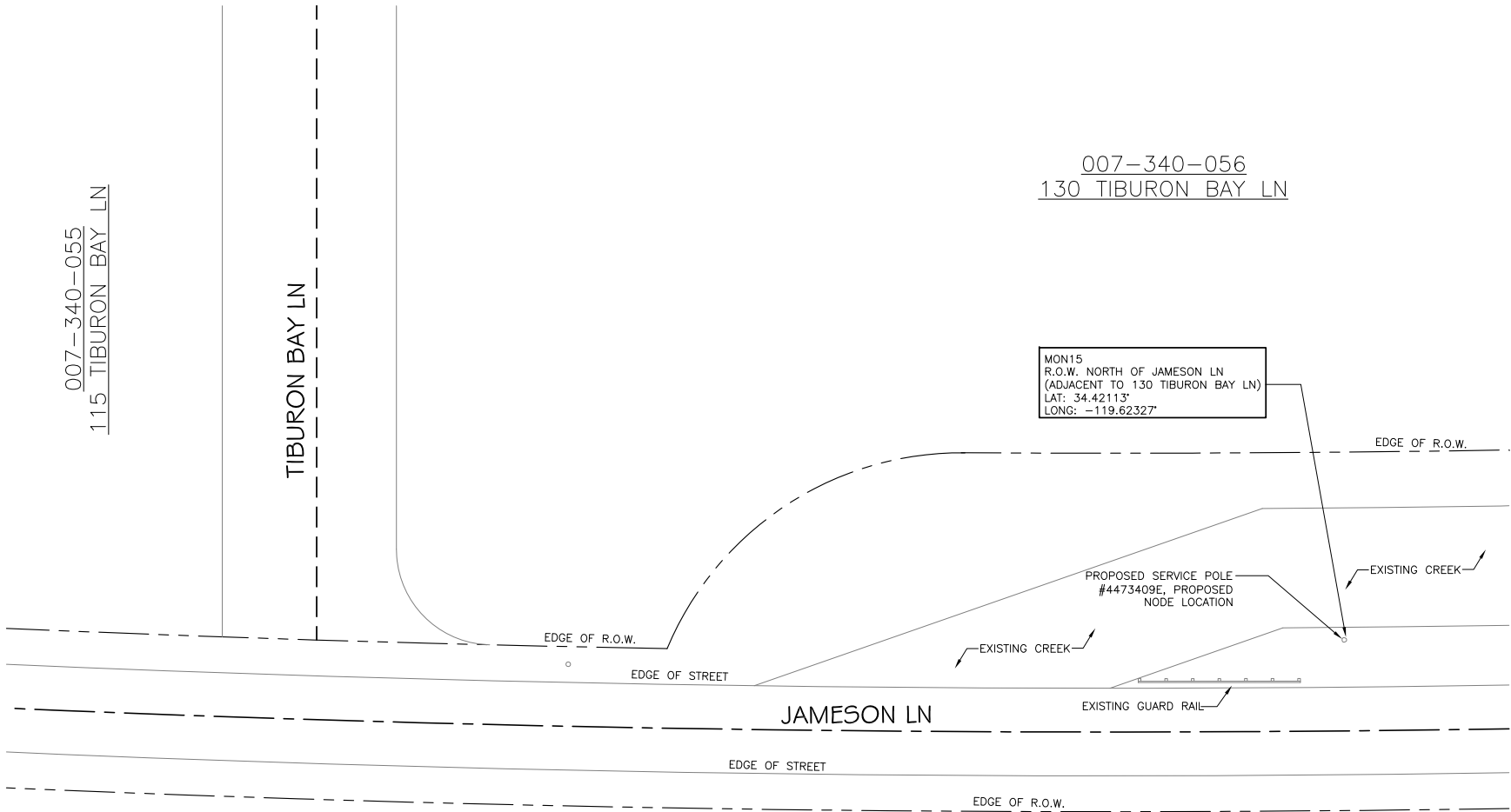
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DRAWN BY:
FC

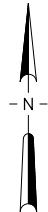
SHEET NUMBER:

T-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



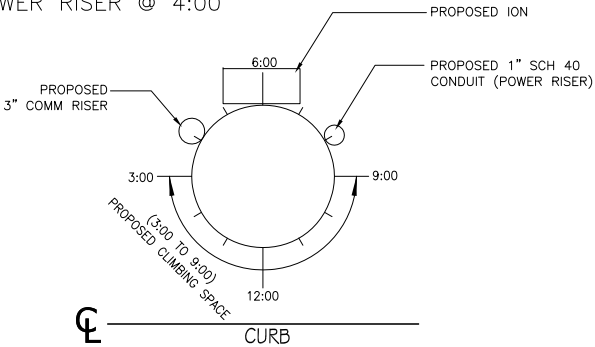
STATE HWY 101



EXISTING PHOTO

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 8:00
1-1" POWER RISER @ 4:00



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Civil Engineer



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SANTA BARBARA, CA 93108
LAT: 34.421167
LONG: -119.625072

SHEET TITLE:

SITE PLAN AND
ELEVATION

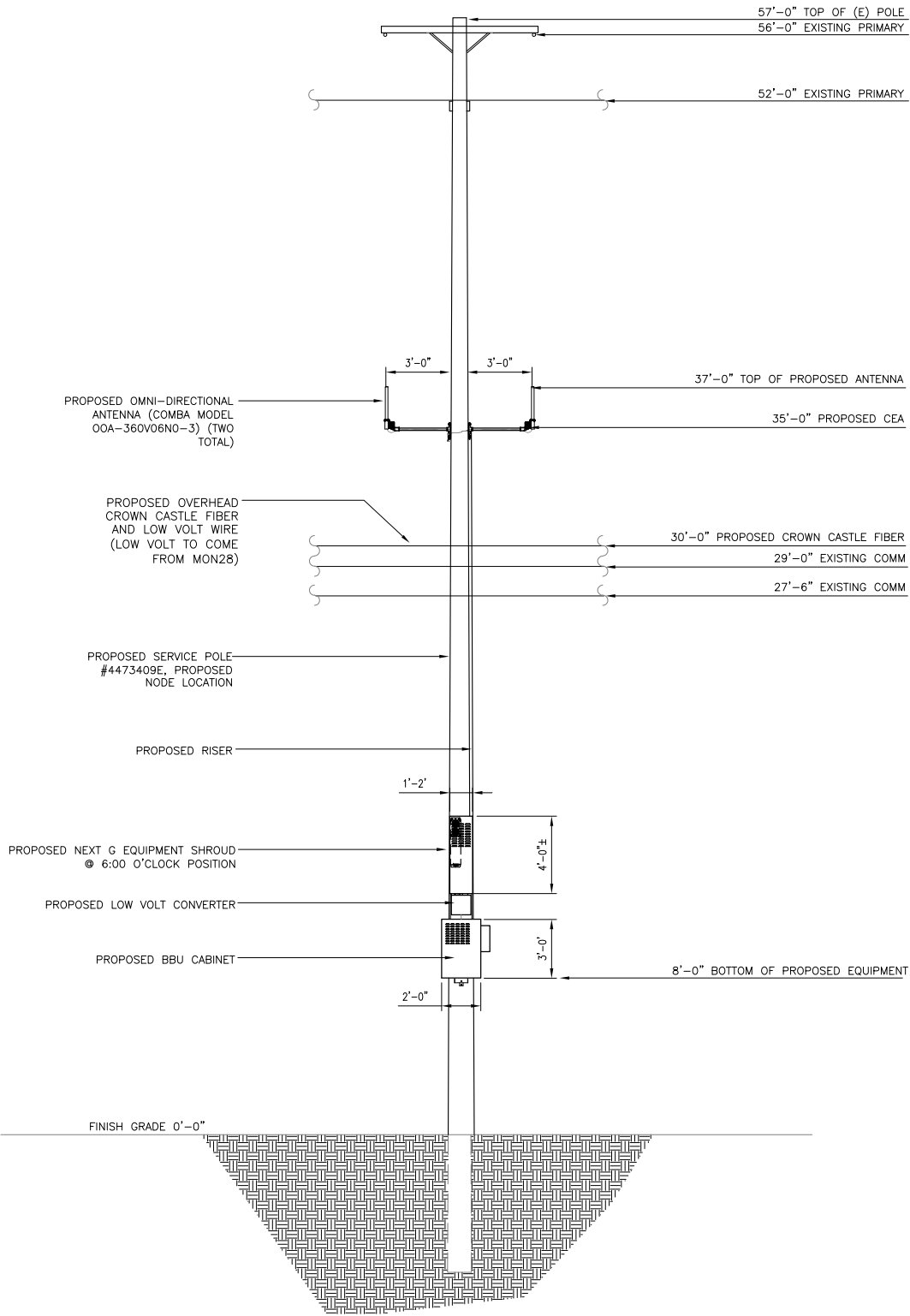
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SHEET NUMBER:

A-1

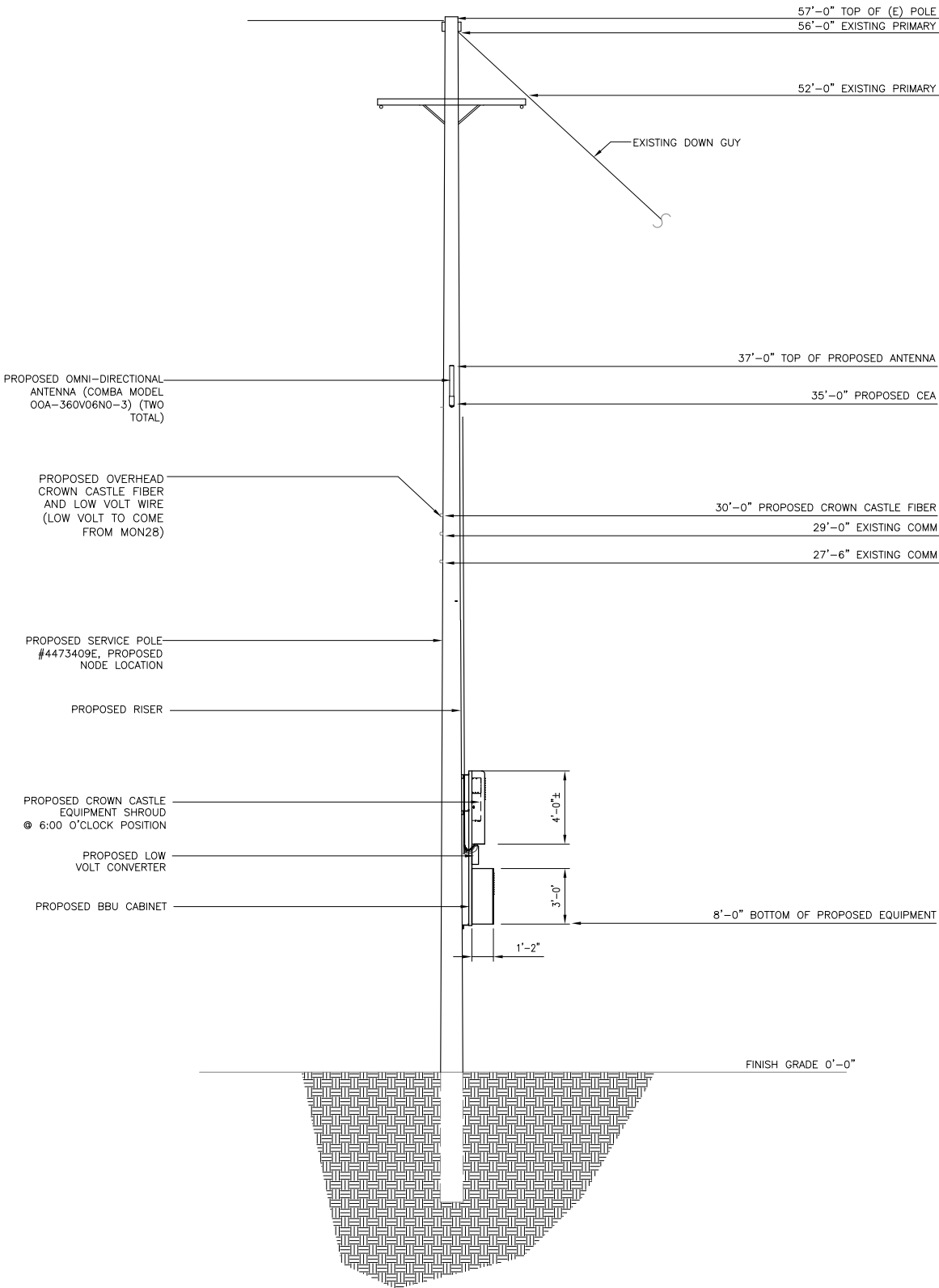
- NOTE:
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PROPOSED ELEVATION LOOKING NORTH

1

PROPOSED ELEVATION LOOKING WEST



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

0 2' 4'

2

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ENGINEER/CONSULTANT:

Civil Engineer



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SITE ADDRESS:	THOMAS BROS PAGE 997 GRID A4 R.O.W. NORTH SIDE OF JAMESON LN. (ADJACENT TO 115 TIBURON BAY LN) SANTA BARBARA, CA 93108 LAT: 34.421167 LONG: -119.625072

SHEET TITLE:

ELEVATION

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FC

SHEET NUMBER:

A-2



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4	FXC 01/24/2014	ISSUED FOR APPROVAL
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ENGINEER/CONSULTANT:

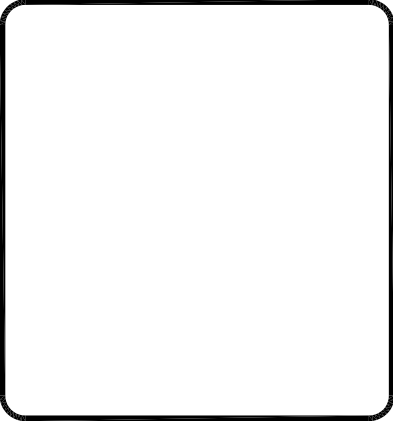
Civil Engineer



CLIENT:



STAMP:



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SANTA BARBARA, CA 93108
LAT: 34.421167
LONG: -119.625072

SHEET TITLE:

ESH AREA PLAN

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FC

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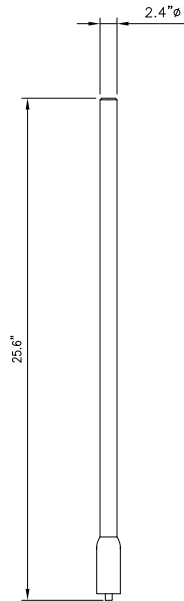
A-3

COMBA

Technical Specifications

Frequency Range	MHz	696–960	1710–2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22–53	20–26
Electrical Downtilt—Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct	Ground

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wnd Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



N.T.S.

1

Power Supply	
Mains power, Vac	115 or 230
Power consumption, Watts	1100 max. < 750 @ normal operation

Frequency range, MHz	
Uplink	698 to 716/776 to 787
Downlink	728 to 757

Number of Carriers	1	2	4	8
--------------------	---	---	---	---

Frequency range, MHz	
Uplink	824 to 849
Downlink	869 to 894

Number of Carriers	1	2	4	8
--------------------	---	---	---	---

Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40 **	37	34
UMTS	42	39	36	33



Frequency range, MHz	
Uplink	1850 to 1915
Downlink	1930 to 1995

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40 ^{**}	37	34
UMTS	42	39	36	33



Noise figure, dB

ICP3 optimized	+10 max.
Noise figure optimized	+6 max.
	4.5 typical

Height, width, depth, mm (in) 817 x 245 x 218
(32.2 x 9.6 x 8.6)

Weight, kg (lb) 40 (88.2)

Company Confidential

N.T.S.

2

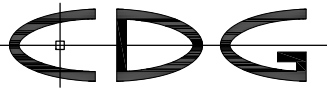
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3

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	01/24/2014	
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	05/13/2014	

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



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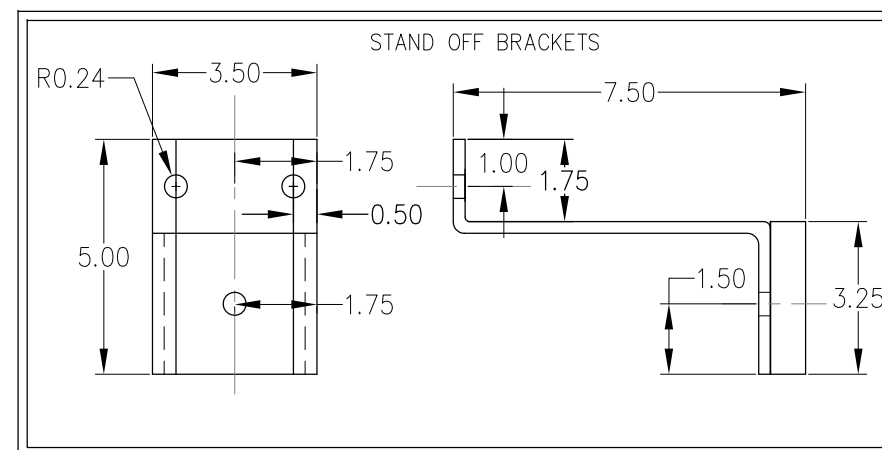
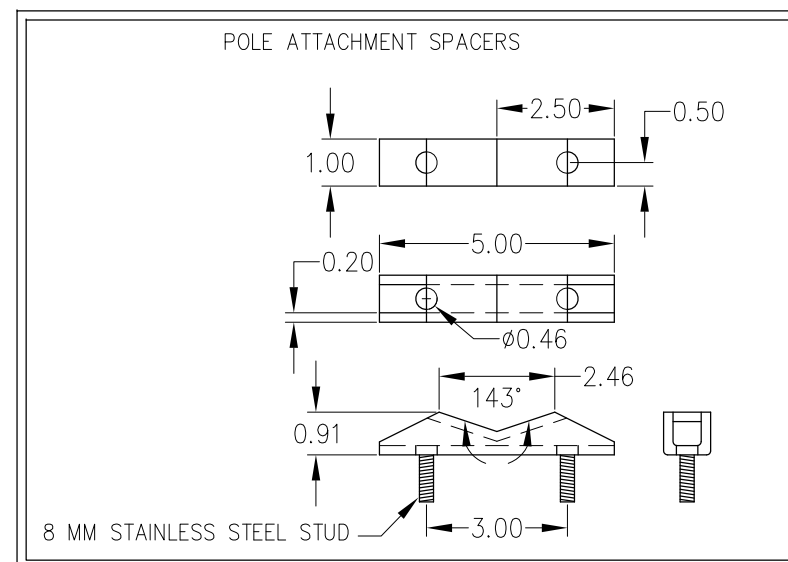
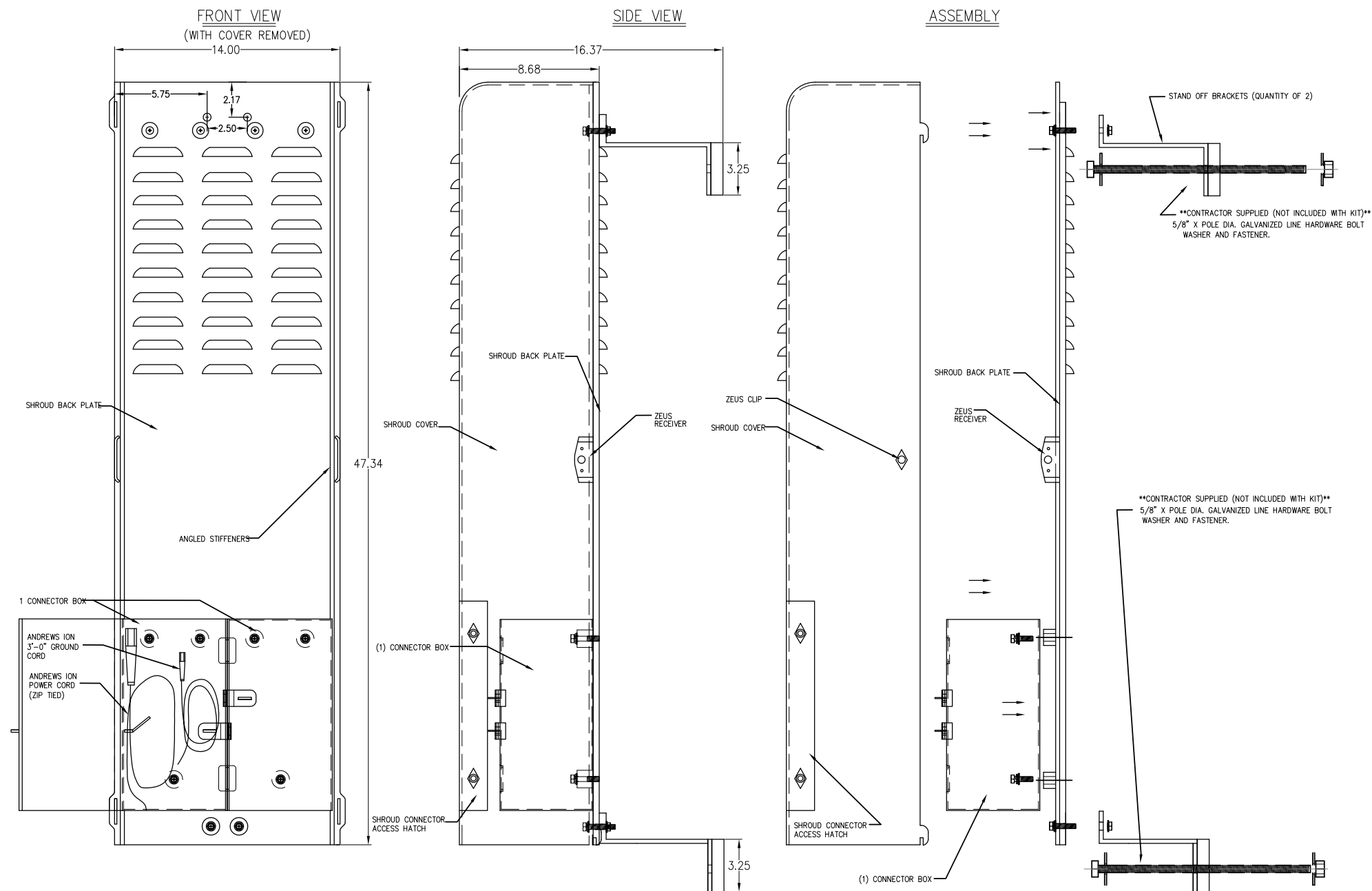
DETAILS

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FC

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D-1



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ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



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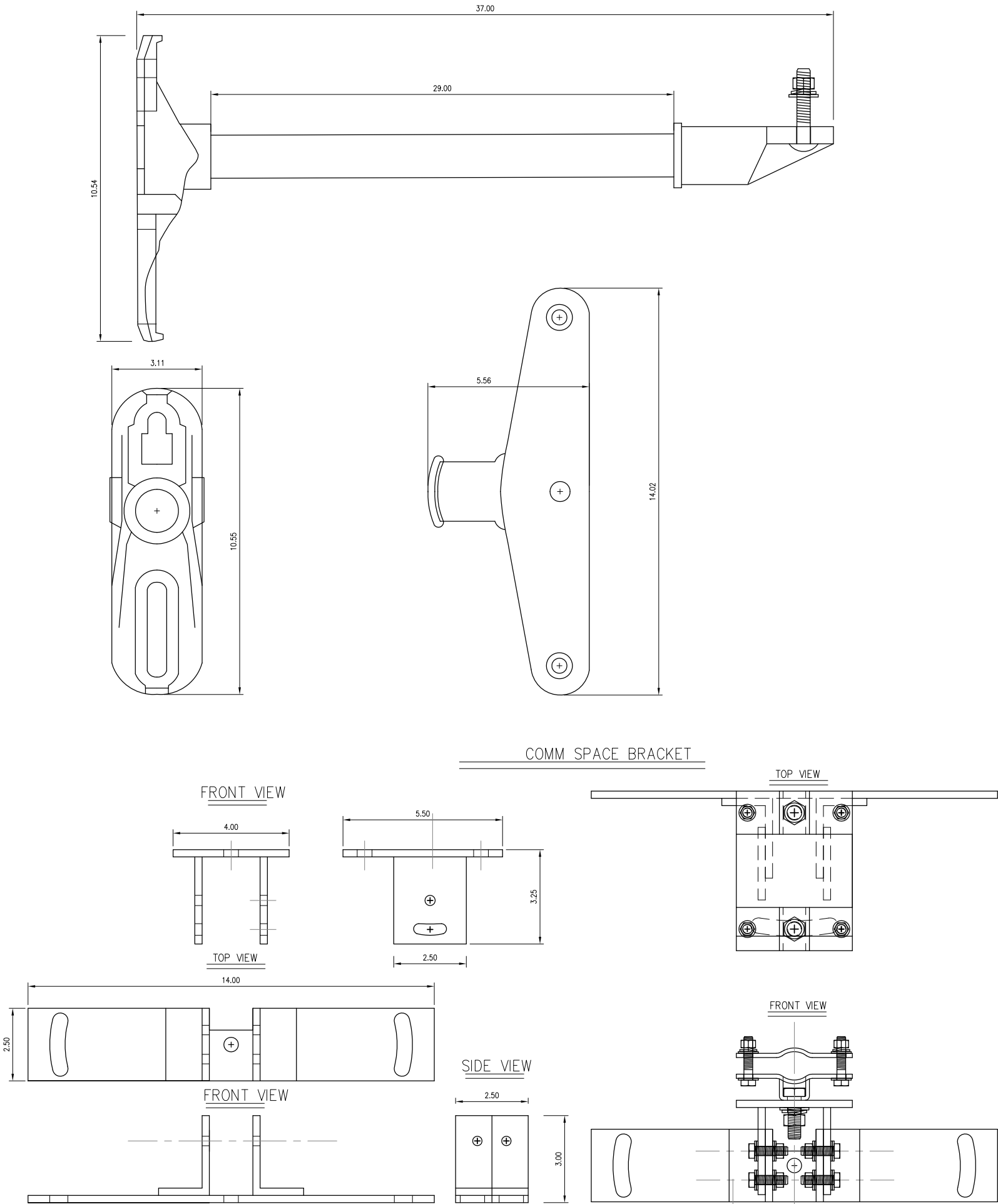
DETAILS

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SHEET NUMBER:

D-2



ANTENNA MOUNT

N.T.S. 1 UN-USED

REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

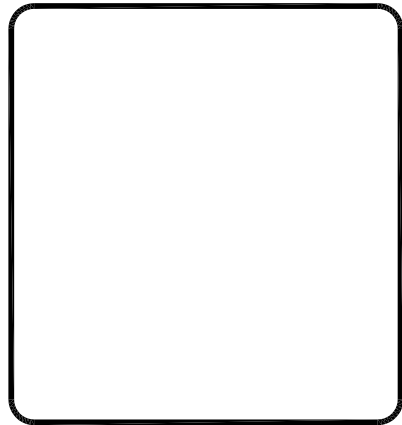
Civil Engineer



CLIENT:



STAMP:



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SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

N.T.S. 2

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETOUE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE
*2010 CALIFORNIA MECHANICAL CODE
*2010 CALIFORNIA PLUMBING CODE
*2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE
2. EQUIPMENT SHROUD AND BBU ON EXISTING POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 6
SITE PLAN	A-1 - SHEET 2 OF 6
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 6
DETAILS	D-1 - SHEET 4 OF 6
DETAILS	D-2 - SHEET 5 OF 6
DETAILS	D-3 - SHEET 6 OF 6

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON16

R.O.W. SOUTH SIDE OF BUENA VISTA DR

(ADJACENT TO 900 BUENA VISTA DR)

SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF BUENA VISTA DR
(ADJACENT TO 900 BUENA VISTA DR)
SANTA BARBARA, CA 93108

APPLICANT:

CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 310-9493

CIVIL ENGINEER:

CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
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3	FXC 02/18/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

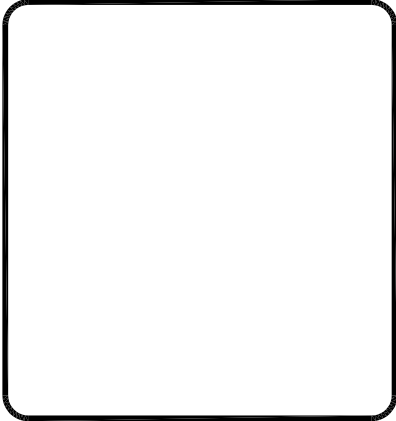
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON16m1
VERIZON MONTECITO-MON16m1

SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF BUENA VISTA DR
(ADJACENT TO 900 BUENA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.4469847*
LONG: -119.6106914*

SHEET TITLE:

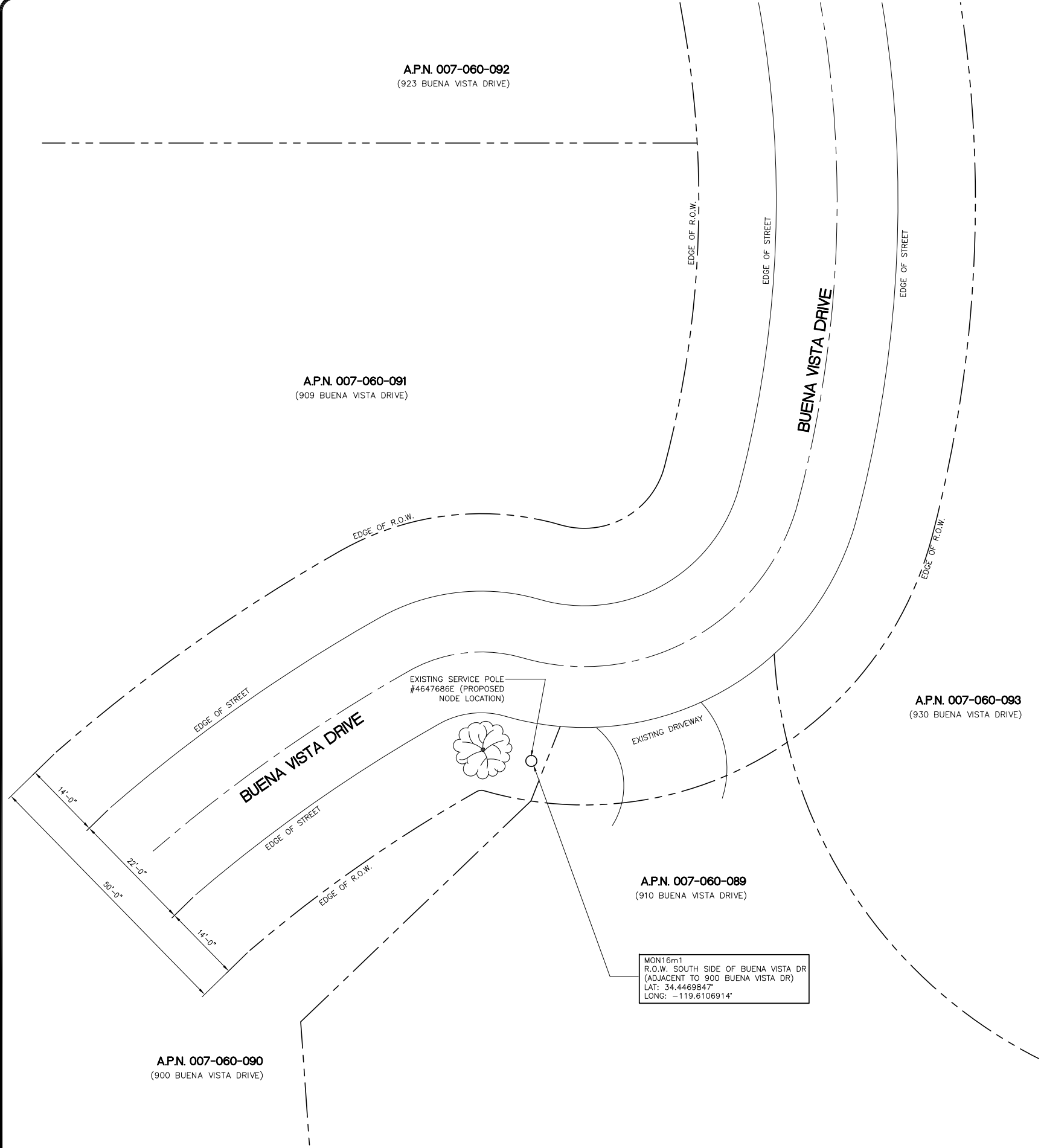
TITLE SHEET

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

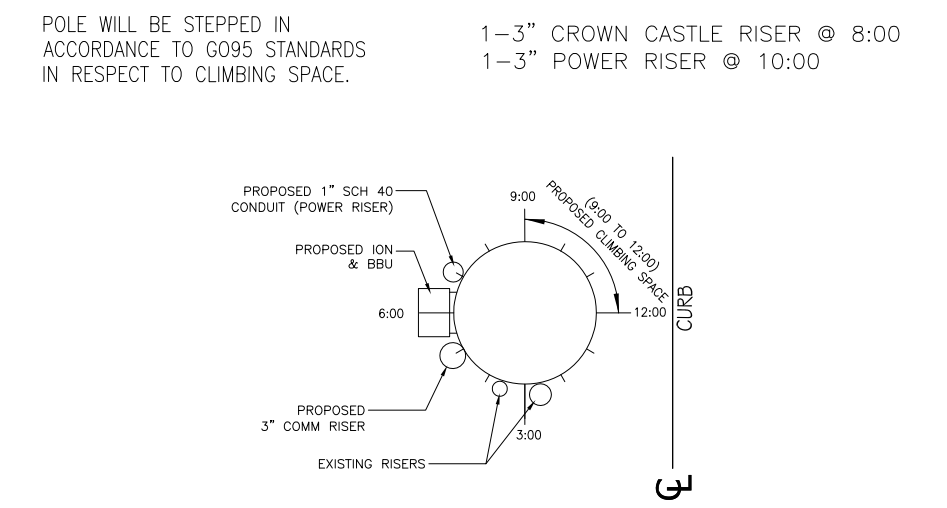


SITE PLAN

SCALE: 1"=10'-0"		1
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EXISTING PHOTO	SCALE: N.T.S.	2
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EXISTING PHOTO

SCALE: N.T.S.	3
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ENGINEER/CONSULTANT:

Civil Engineer

CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME: **MON16m1**
VERIZON MONTECITO-MON16m1

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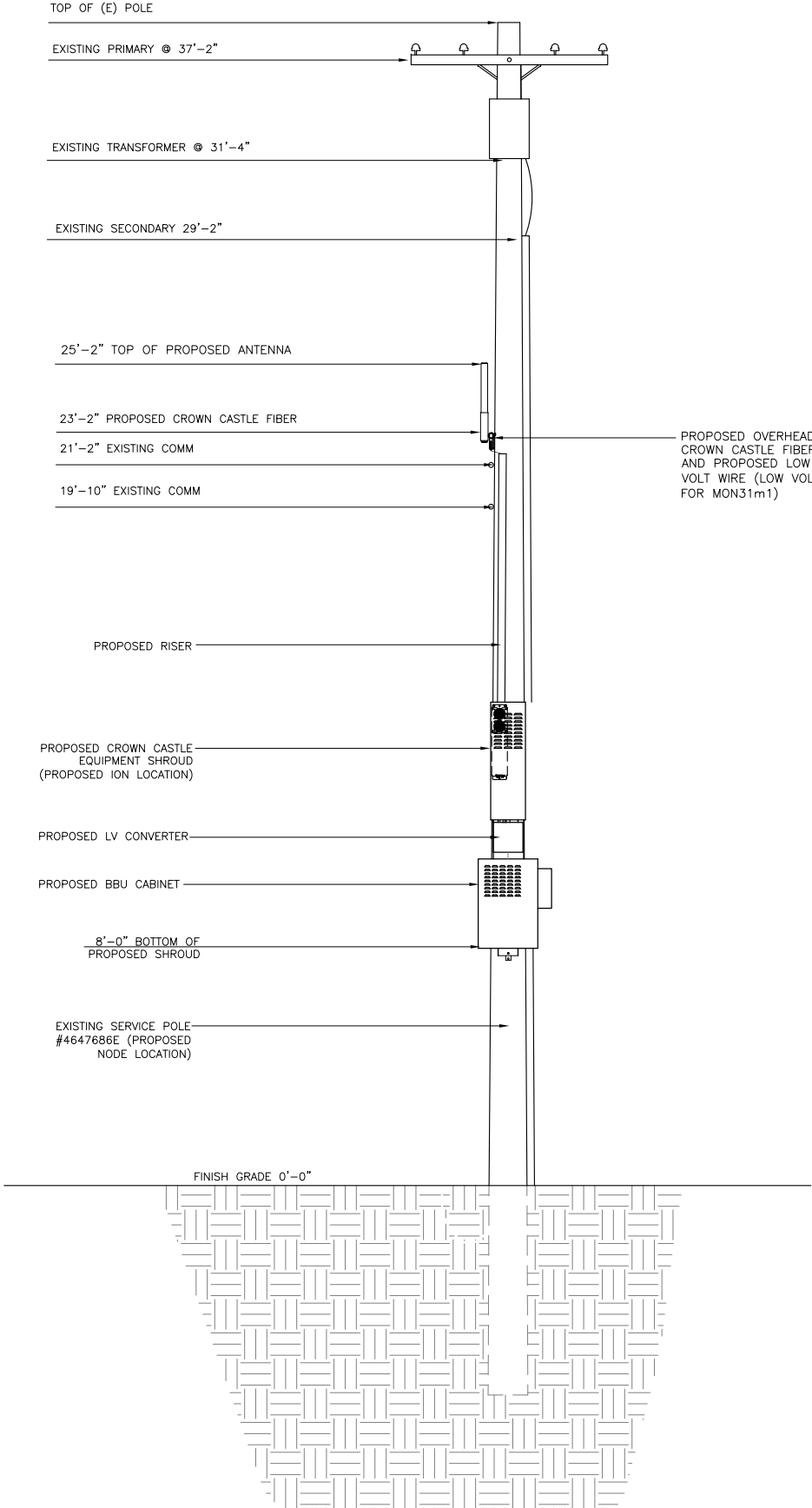
SITE PLAN, ENLARGED SITE PLAN AND EXISTING PHOTO

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1



PROPOSED ELEVATION LOOKING NORTH

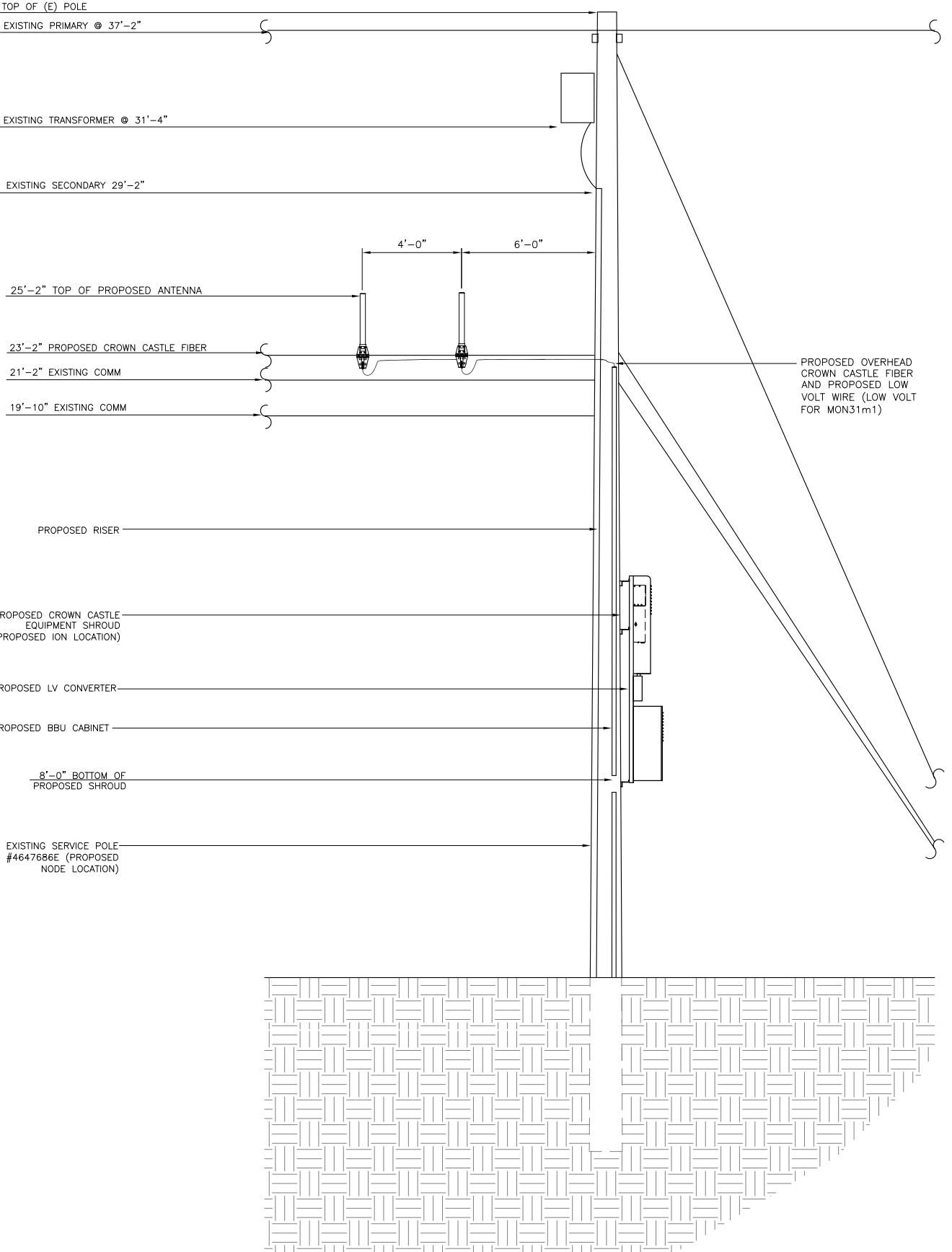
SCALE:
3/8"=1'-0"

1

PROPOSED ELEVATION LOOKING EAST

SCALE:
3/8"=1'-0"

2



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

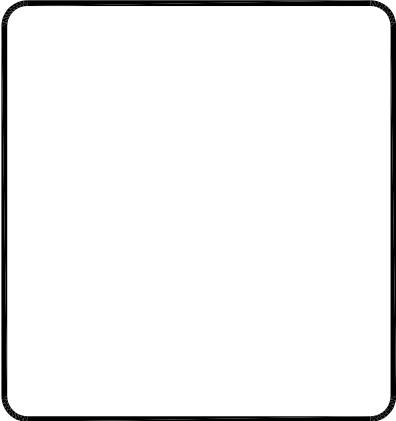
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON16m1
VERIZON MONTECITO-MON16m1
SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
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SANTA BARBARA, CA 93108
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LONG: -119.6106914°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
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SHEET NUMBER:

A-2

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

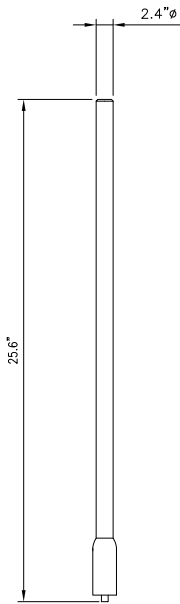
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S. 1

Electrical

Power Supply		115 or 230
Mains power, Vac		
Power consumption, Watts		1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz		698 to 716/776 to 787
Uplink		
Downlink		728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz		824 to 849
Uplink		
Downlink		869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO

1900 MHz

Frequency range, MHz		1850 to 1915
Uplink		
Downlink		1930 to 1995

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB		ICP3 optimized: +10 max. Noise figure optimized: +6 max. 4.5 typical
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Mechanical****

Height, width, depth, mm (in)		817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)		40 (88.2)
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AlphaCell
General Specifications

Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid Extreme Low	Valve regulated lead acid Extreme Low	Valve regulated lead acid Extreme Low
Sealed VRLA:	Threaded insert	Threaded insert	Threaded insert
Heat Resistant:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC
Hydrogen Emission:			
Terminals:			

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	63/28.6	53/24.5
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) ³ :	13.42/340.9	13.42/340.9	12.6/317.8
Depth (in/mm) ³ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Floa Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		

Notes:

¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.

² Runtimes calculated using a 25A DC constant current load.

³ Dimensions at top of battery.

⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

Model/Voltage	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries:	508	453	396	520	465	408	528	473	416	536	481	424	544	489
4 batteries:	701	625	546	728	652	573	736	660	584	752	676	600	768	692
6 batteries:	1091	978	853	1101	988	863	1123	1010	885	1145	1032	907	1167	1054
8 batteries:	1487	1338	1165	1500	1351	1178	1523	1374	1201	1549	1400	1227	1597	1448
9 batteries:	1688	1509	1322	1691	1509	1322	1703	1520	1333	1715	1532	1345	1727	1547

Model/Voltage	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220
3 batteries:	149	132	115	119	106	92	101	89	77	87
4 batteries:	210	187	163	169	151	132	144	128	112	124
6 batteries:	339	301	264	275	245	214	236	209	183	204
8 batteries:	478	419	367	385	341	299	329	293	256	288
9 batteries:	538	479	419	440	391	342	377	335	294	329

Model/Voltage	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries:	798	712	622	708	625	536	723	640	549	736	653	562	749	666
4 batteries:	1091	978	853	1101	988	863	1123	1010	885	1145	1032	907	1167	1054
6 batteries:	1688	1509	1322	1691	1509	1322	1703	1520	1333	1715	1532	1345	1727	1547
8 batteries:	2298	2037	1778	1887	1668	1449	2233	1994	1755	2299	2060	1821	2365	2126
9 batteries:	2500	2245	2037	1888	1668	1449	2233	1994	1755	2299	2060	1821	2365	2126

Model/Voltage	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220
3 batteries:	242	215	188	196	174	151	166	148	125	144
4 batteries:	339	301	264	275	245	214	236	209	182	204
6 batteries:	538	479	419	440	391	340	377	335	290	329
8 batteries:	741	660	577	607	541	470	523	465	402	458
9 batteries:	843	753	658	692	617	538	597	531	462	528

*Above calculations based on an AC load with a .90 cable plant power factor.

For contact information visit www.alpha.com

The Alpha Group >

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USA Tel: +1 360 647 2360 Fax: +1 360 671 4936	Russia Tel: +7 495 926 9844 Fax: +7 495 916 1349	United Kingdom Tel: +44 1279 501110 Fax: +44 1279 659870	P.R. China Tel: +852 2736 8653 Fax: +852 2199 7988

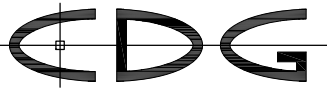
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049-297-10-B002 (06/09)

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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



NG WEST, INC.

STAMP:

SITE INFO:

SITE NAME:
MON16m1
VERIZON MONTECITO-MON16m1

SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
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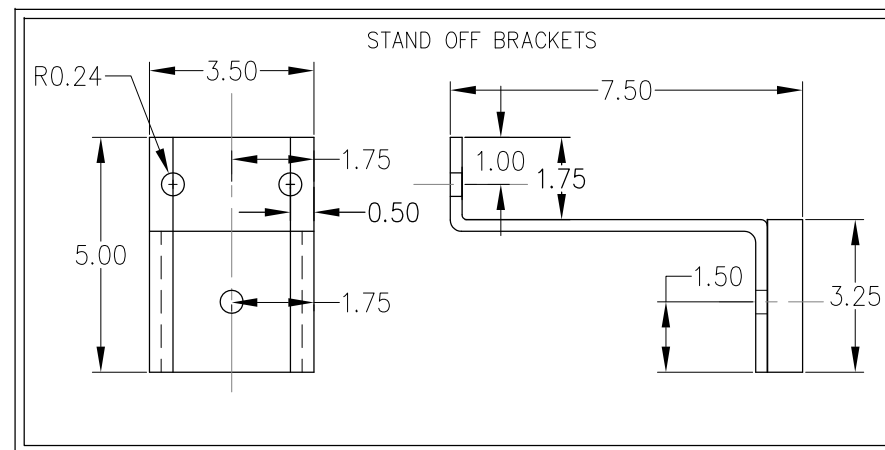
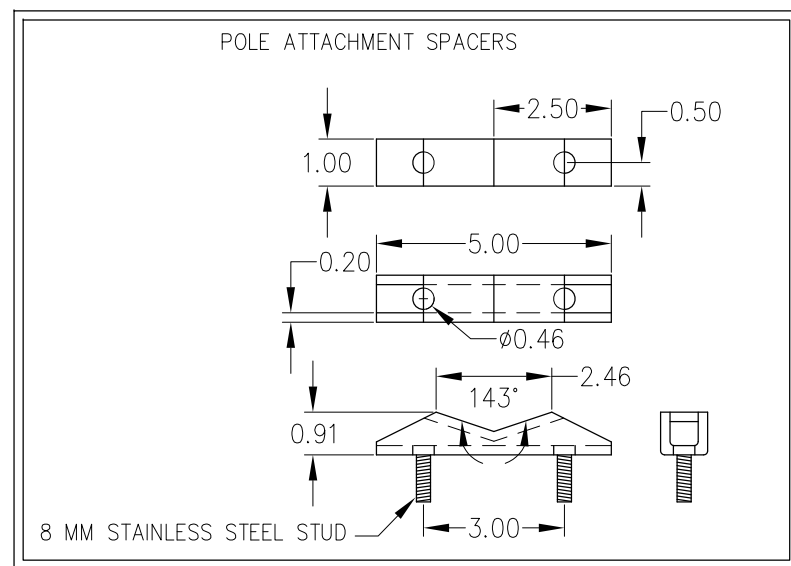
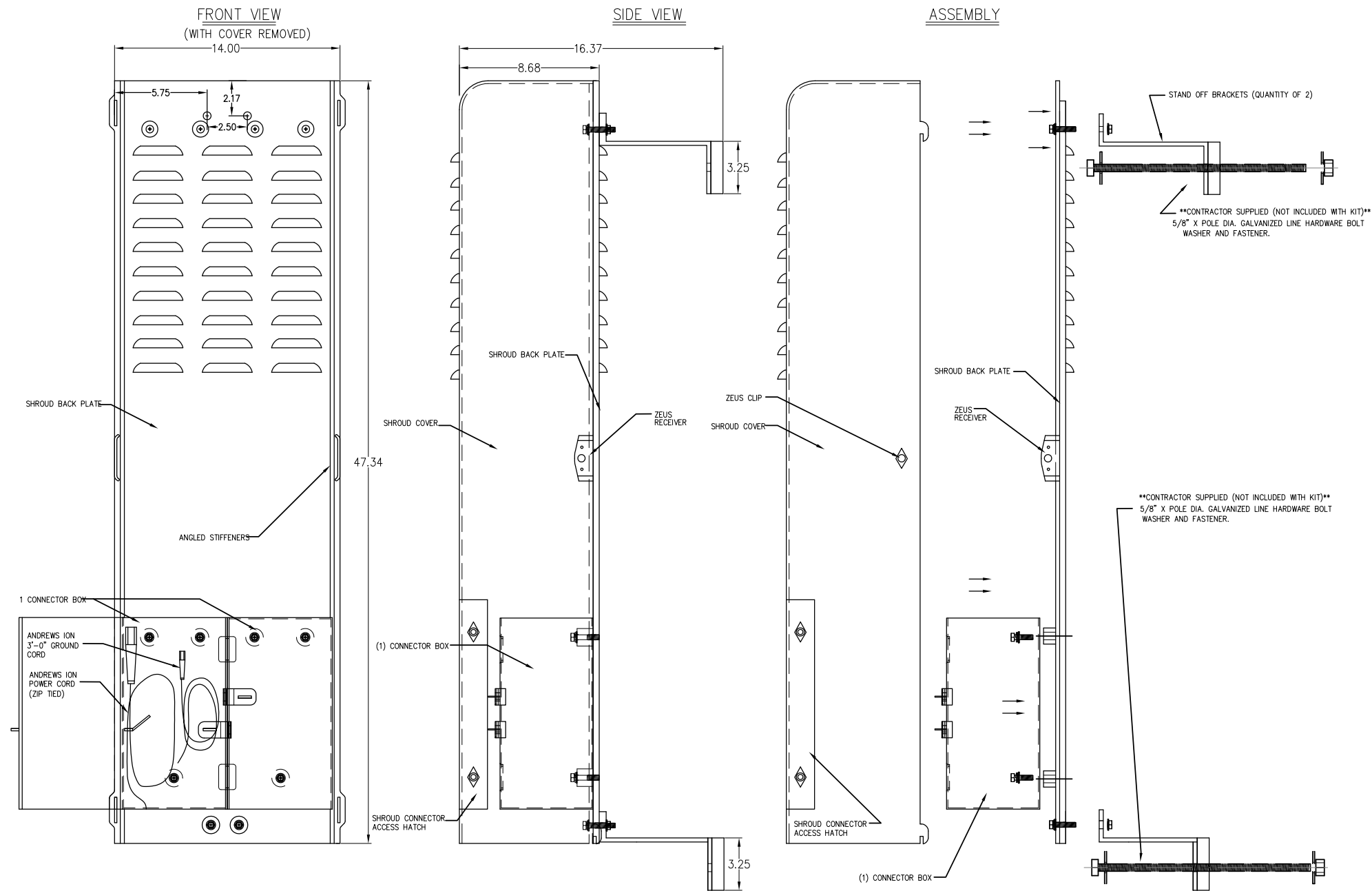
DETAILS

DRAWING INFO:

DRAWN BY:
FC

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D-1



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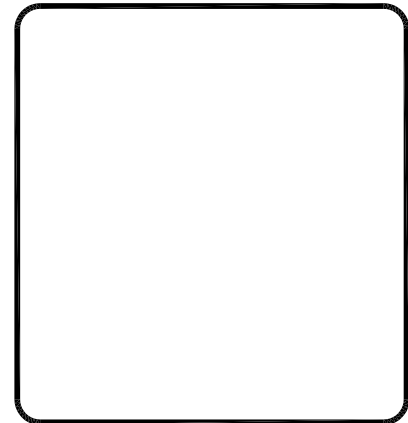
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LONG: -119.6106914*

SHEET TITLE:

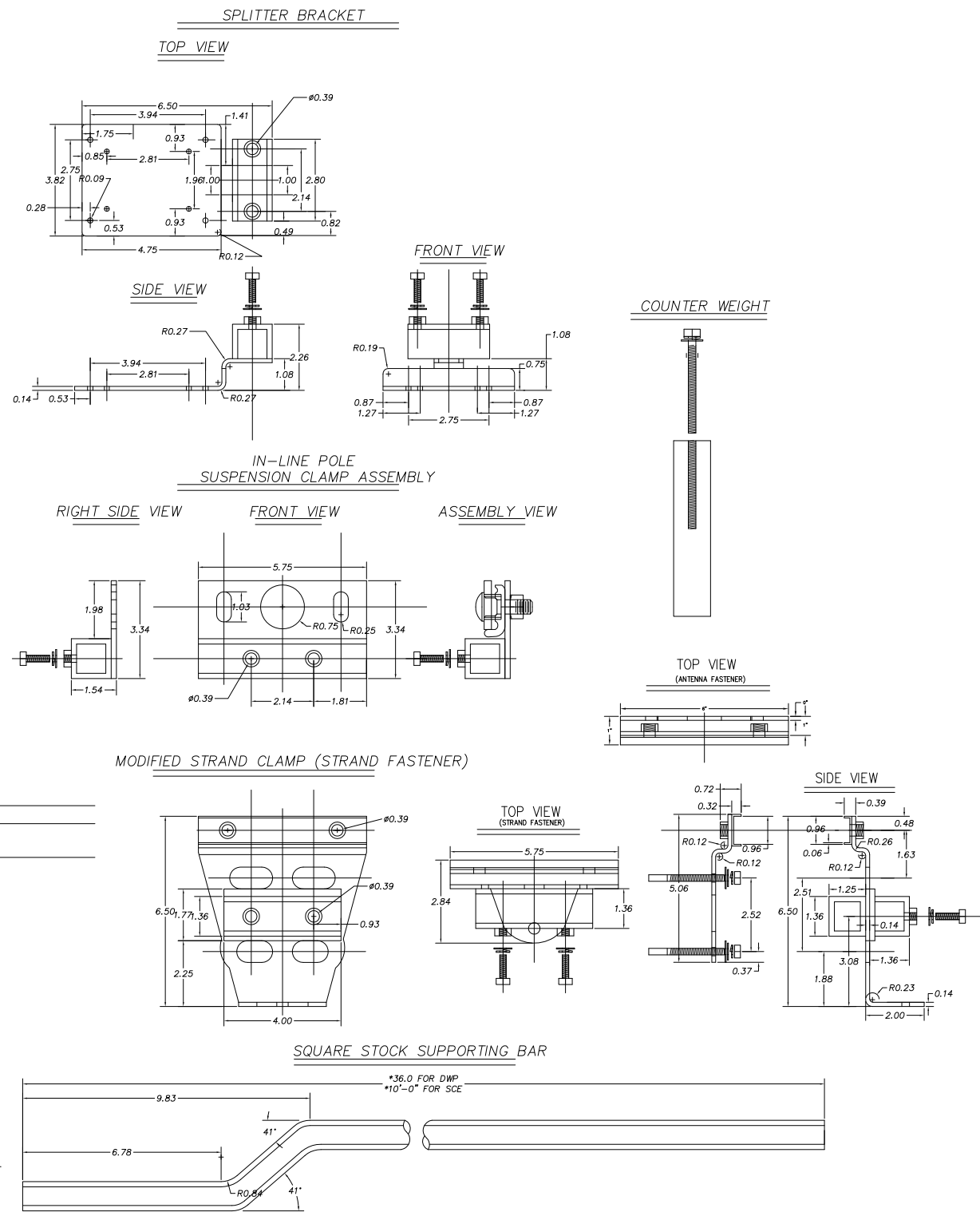
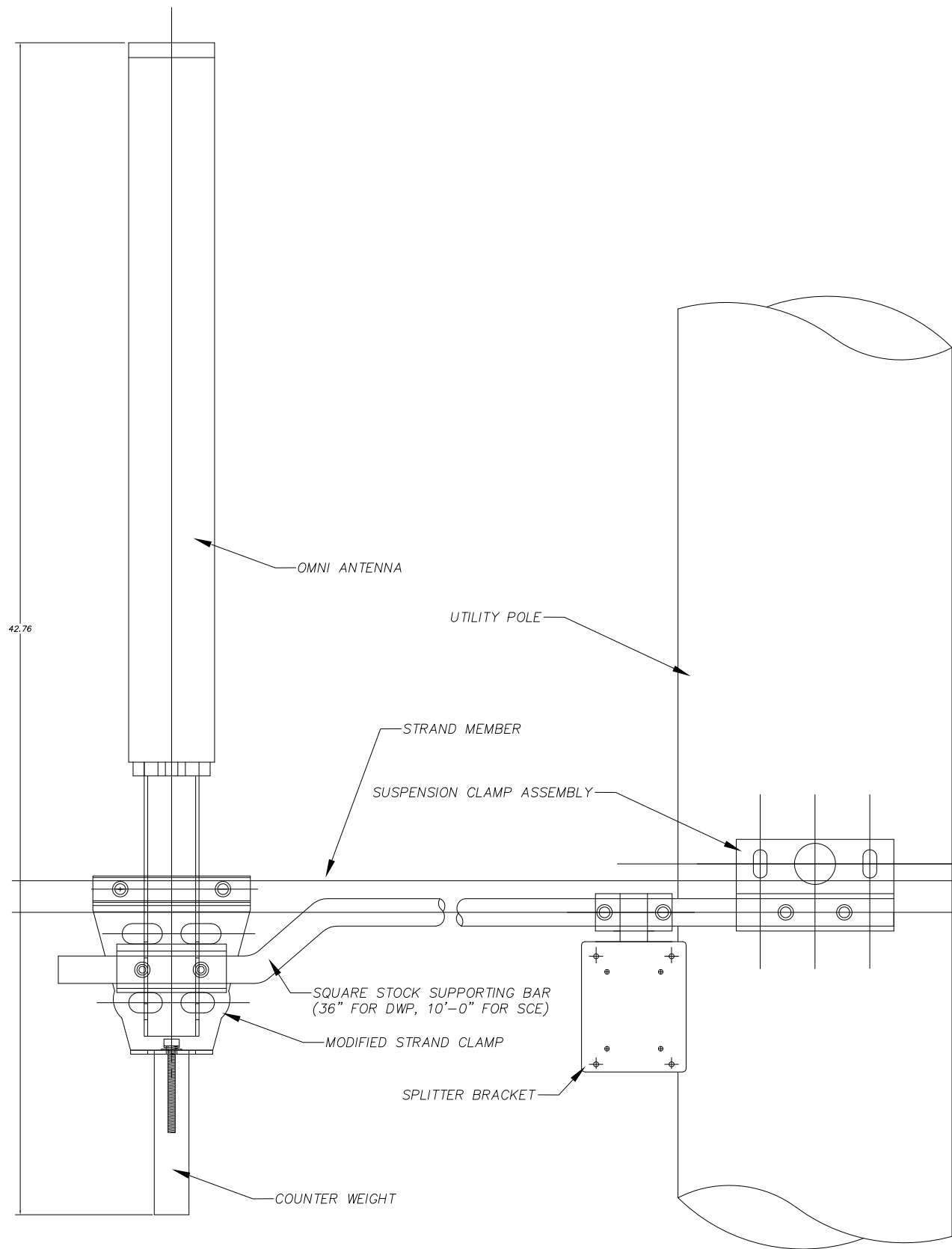
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 03/15/2013	ISSUED FOR REVIEW
1	FXC 03/27/2013	ISSUED FOR FINAL
2	FXC 11/05/2013	ISSUED FOR FINAL
3	FXC 02/18/2013	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

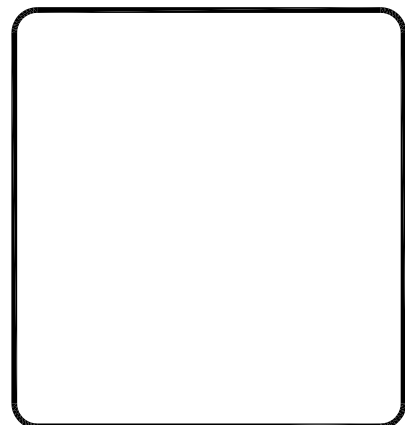
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON16m1
VERIZON MONTECITO-MON16m1
SITE ADDRESS: THOMAS BROS PAGE 987 GRID C7
R.O.W. SOUTH SIDE OF BUENA VISTA DR
(ADJACENT TO 900 BUENA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.4469847°
LONG: -119.6106914°

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION, DOES NOT AUTHORIZE THE SUBGRADER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THEREOF (16 USC SECTION 1531 ET SEQ).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DESTROYED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A PERMIT TO EXCAVATE WILL BE VALID. FOR YOUR DIG ALERT ID NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POTHOLE AND LOADING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION, A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESULTAGE OR DAMAGE: IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS, IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CORROBORATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE. THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST"
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.

1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTORS SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES. CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THE PERSON SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DETEND INDIVIDUALLY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE AVAILABLE, BY FIELD SURVEYING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DEPTH, HORIZONTAL AND VERTICAL, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

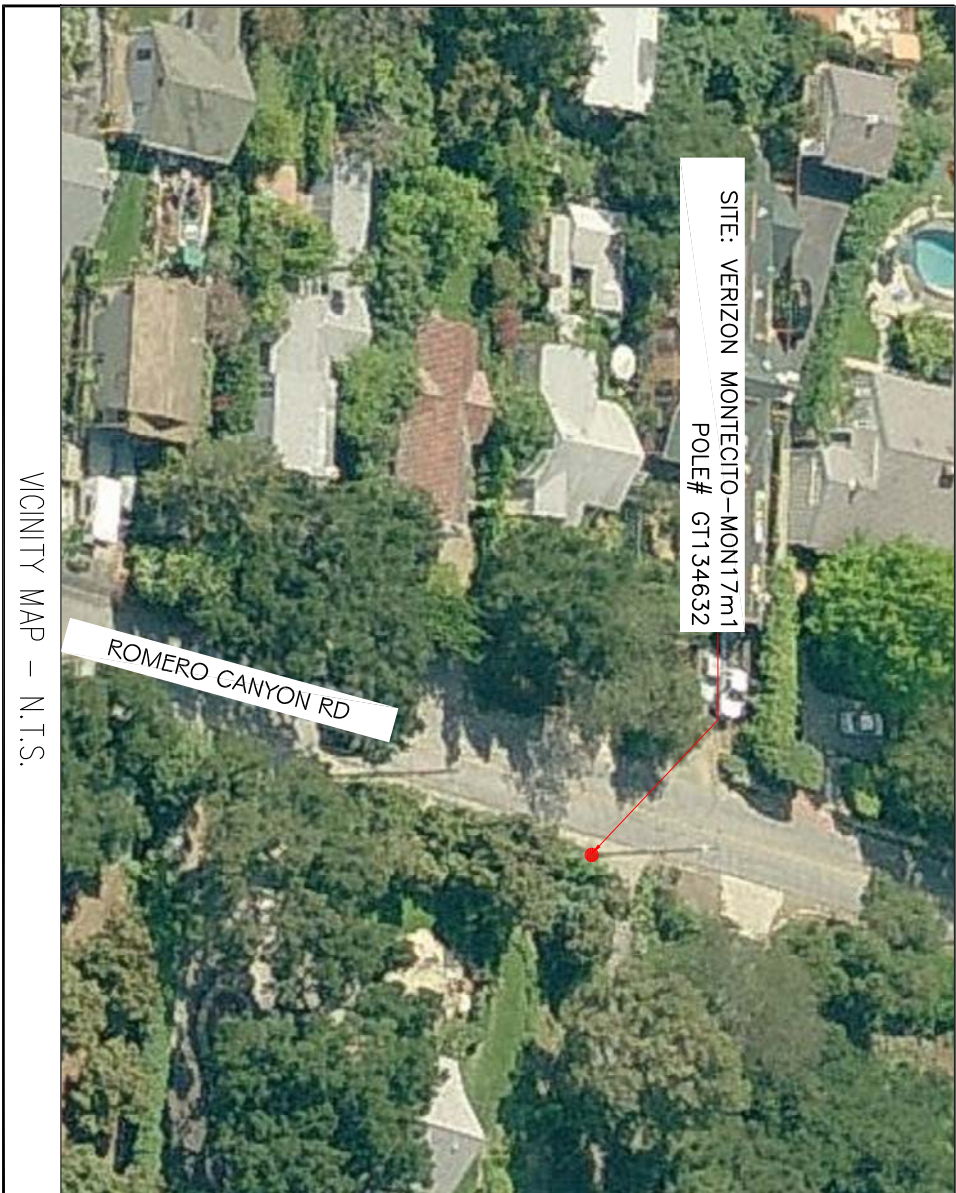
CROWN CASTLE NG WEST, LLC

VERIZON MONTECITO-MON17m1

R.O.W. EAST SIDE OF ROMERO CANYON RD

(ADJACENT TO 656 ROMERO CANYON RD)

SANTA BARBARA, CA 93108



<div><div><div><div><div>T</div><div>T</div></div><div><div>●</div><div>■</div></div></div><div>GROUND BUS BAR</div><div>MECH. GRND. CONNL.</div><div>CADWELD</div></div><div><div><div>E</div><div>T</div></div><div>ELECTRIC BOX</div><div>TELEPHONE BOX</div></div><div><div><div>X</div><div>X</div></div><div>EXISTING SERVICE POLE</div><div>SIDEWALK FLAG</div></div><div><div><div>⊕</div><div>⊕</div></div><div>EX. MANHOLE</div></div></div>	<div><div><div>☼</div><div>○</div></div><div>LIGHT POLE</div><div>FOUNDATION</div></div> <div><div><div>⬆</div><div>⬆</div></div><div>SPOT ELEV.</div><div>SET POINT</div></div> <div><div><div>△</div><div>△</div></div><div>REVISION</div></div>	<div><div><div>⬆</div><div>⬆</div></div><div>ELEVATION REF.</div><div>SECTION REF.</div></div> <div><div><div>⬆</div><div>⬆</div></div><div>PROP./LEASE LINE</div><div>MATCH LINE</div></div> <div><div><div>⬆</div><div>⬆</div></div><div>WORK POINT</div><div>TELE. CONDUIT</div></div> <div><div><div>⬆</div><div>⬆</div></div><div>DETAIL REF.</div><div>CENTERLINE</div></div>	<div><div><div>—E—</div><div>—A—</div></div><div>ELECT. CONDUIT</div><div>COAXIAL CABLE</div></div> <div><div><div>□</div><div>□</div></div><div>MISERS PEDESTAL</div><div>VAULT</div></div> <div><div><div>●</div><div>●</div></div><div>STANDARD 2X3'</div><div>STEEL POLE</div></div>
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SYMBOLS, LINETYPES AND HATCH PATTERNS

APPLICABLE CODES	PROJECT DESCRIPTION	SHEET INDEX:
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES: *2013 CALIFORNIA BUILDING CODE *2013 CALIFORNIA PLUMBING CODE *2013 CALIFORNIA ELECTRICAL CODE IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL	PROJECT CONSISTS OF INSTALLATION OF: 1. (2) DOWN DIRECTIONAL ANTENNA ON EXISTING UTILITY POLE 2. EQUIPMENT SHROUD AND BBO ON EXISTING POLE	TITLE SHEET SITE PLAN PROPOSED ELEVATIONS DETAILS DETAILS DETAILS 1-1 - SHEET 1 OF 6 A-1 - SHEET 2 OF 6 A-2 - SHEET 3 OF 6 D-1 - SHEET 4 OF 6 D-2 - SHEET 5 OF 6 D-3 - SHEET 6 OF 6

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 LOCAL JURISDICTION, LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS, MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED DRAINAGE/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SLOPES ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 100" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DUMPS.
4. THE CONTRACTOR OR QUALIFIED PERSON SHALL BE RESPONSIBLE FOR CLEANUP OF SILT AND MUD ON ADJACENT STREETS(S) AND STORM DRAIN SYSTEM DUE TO CONSTRUCTION ACTIVITY.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL UNDED AND UNUNITED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON. ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (1" X 17" FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
BACK SUMP TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 656 ROMERO CANYON RD)
SANTA BARBARA, CA 93108

APPLICANT:

CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEDI PAYNE
PHONE: (949) 310-9493

CIVIL ENGINEER:

CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/18/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



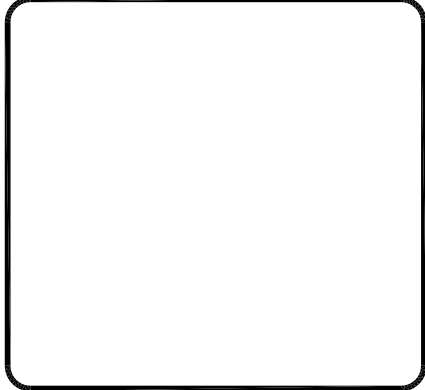
CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
36455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON17m1
VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PLACE 997 GRID C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4392586°
LONG: -119.6016077°

SHEET TITLE:

TITLE SHEET

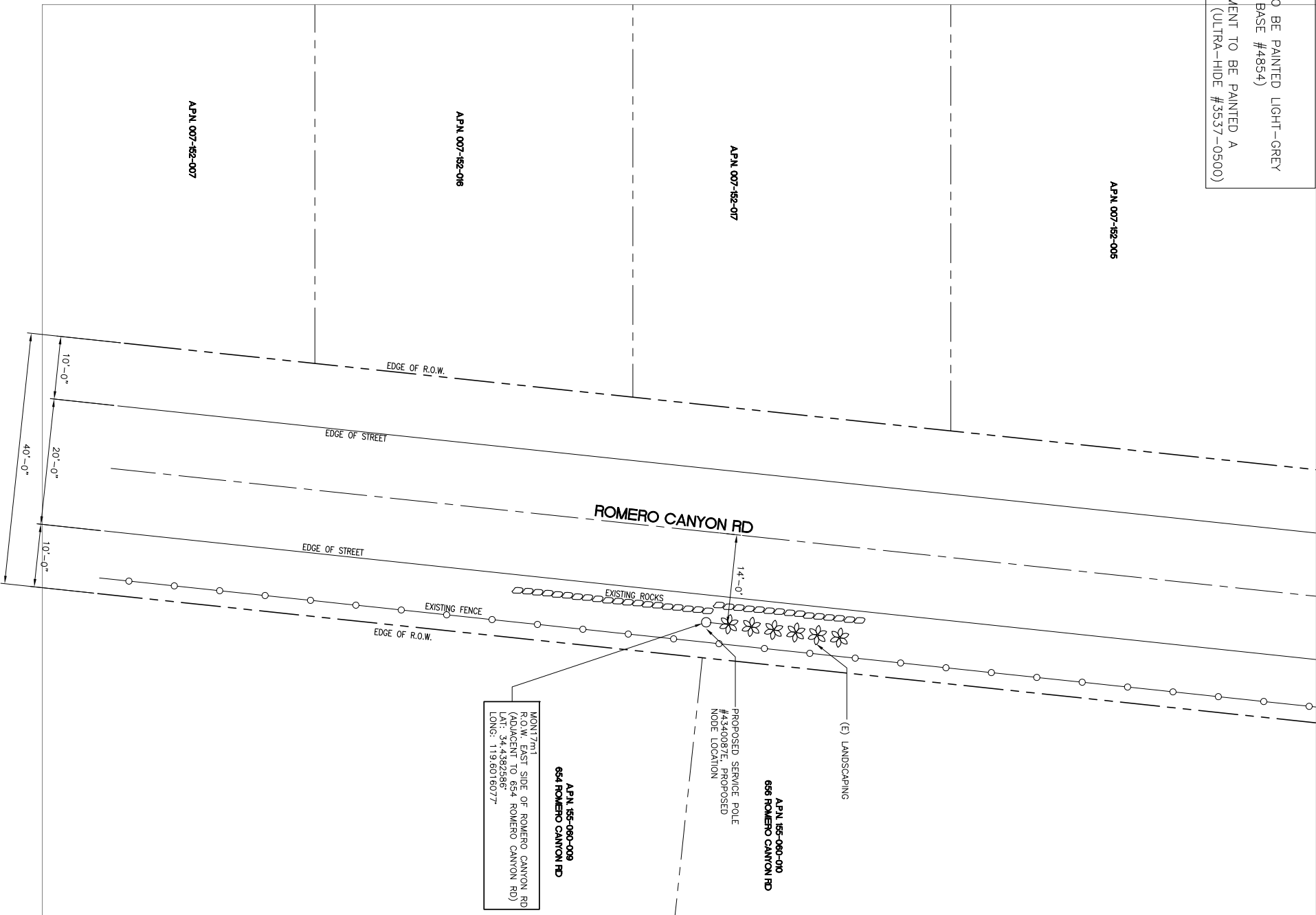
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DRAWN BY:
FC

SHEET NUMBER:

T-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



SITE PLAN

SCALE: 1"=10'-0"

1



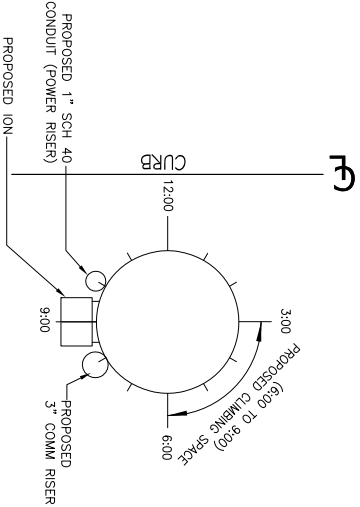
EXISTING PHOTO

SCALE: N.T.S.

2

POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.

1-3" CROWN CASTLE RISER @ 8:00
1-3" POWER RISER @ 10:00



RISER PROFILE

SCALE: N.T.S.

3

REV.	DATE/By:	REVISION DESCRIPTION:
0	FXC 02/18/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 BLANCHD PARKWAY SOUTH LAKE FOREST, CA 92550
(949) 254-8800 OFFICE • (949) 254-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:

MON17m1

VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PACE 997 GRID C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4392586°
LONG: -119.6016077°

SHEET TITLE:

SITE PLAN, ENLARGED SITE
PLAN, EXISTING PHOTO AND
RISER PROFILE

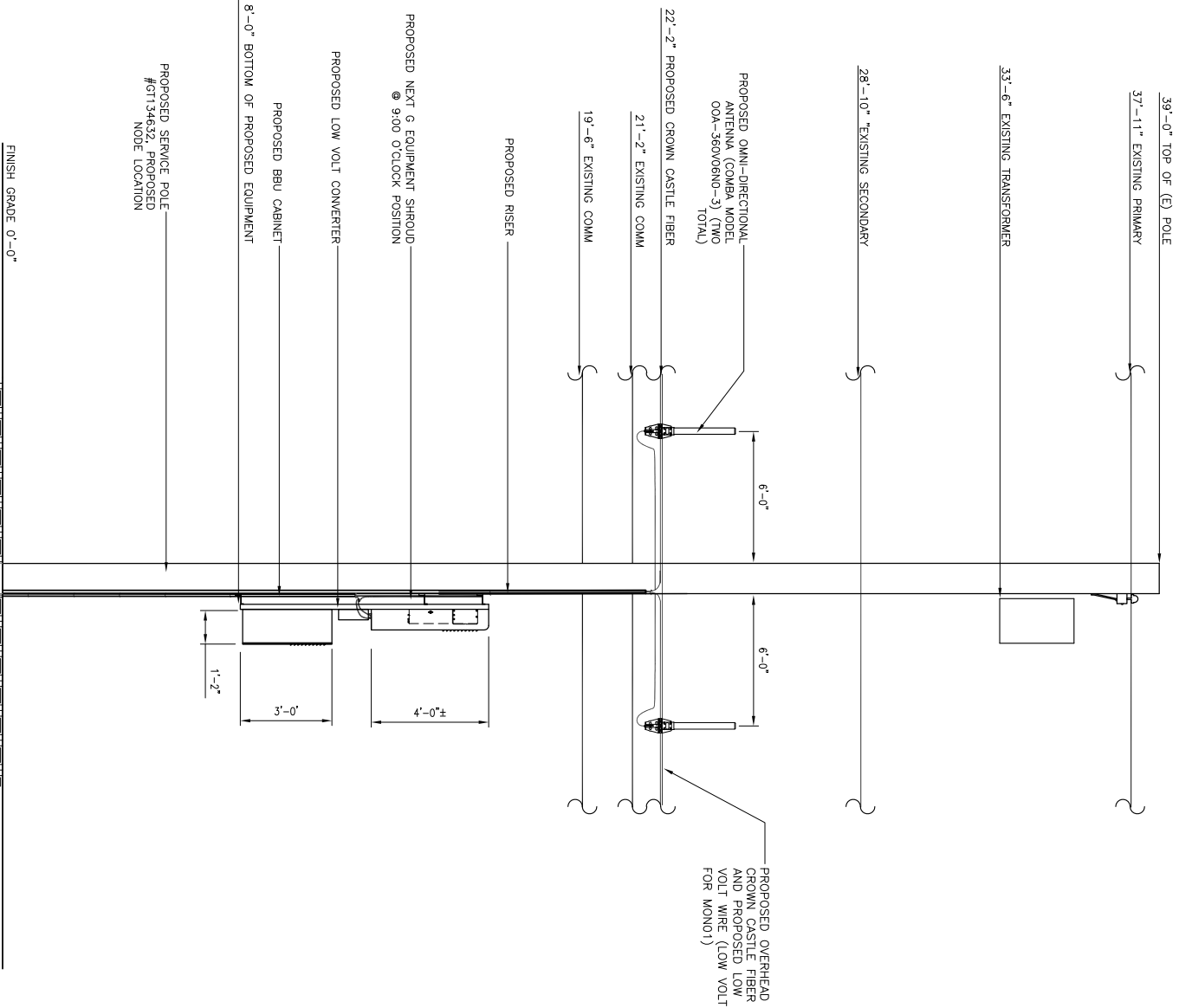
DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1

- NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
 2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



PROPOSED ELEVATION LOOKING EAST

SCALE: 3/8"=1'-0"

1

PROPOSED ELEVATION LOOKING NORTH

SCALE: 3/8"=1'-0"

2

REV.	DATE/By:	REVISION DESCRIPTION:
0	FXC 02/18/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
16453 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92509
(949) 753-8807 OFFICE - (949) 753-8831 FAX

CLIENT:

CROWN CASTLE
NG WEST, LLC

STAMP:

SITE INFO:

SITE NAME:
MON17m1
VERIZON MONTECITO-MON17m1

SITE ADDRESS: THOMAS BROS PAGE 997 GRID C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4382586°
LONG: -119.6016077°

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

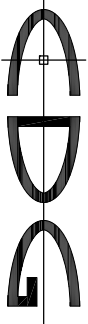
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A-2

REV.	DATE/BY:	REVISION DESCRIPTION:
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1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer

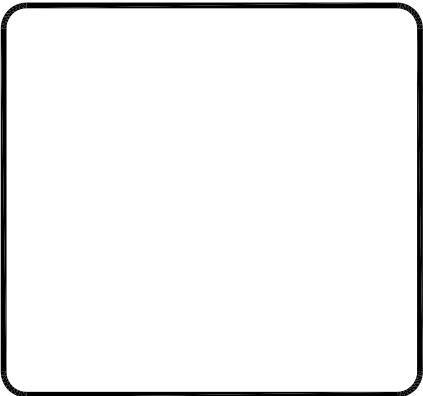


CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 BLANCHO PARKWAY SOUTH LAKE FOREST, CA 92509
(949) 753-8807 OFFICE - (949) 753-8831 FAX

CLIENT:



STAMP:



SITE INFO:

SITE NAME: **MON17m1**
VERIZON MONTECITO-MON17m1
SITE ADDRESS: THOMAS BROS PACE 997 GRID C1
R.O.W. EAST SIDE OF ROMERO CANYON RD
(ADJACENT TO 654 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.4382586°
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SHEET TITLE:

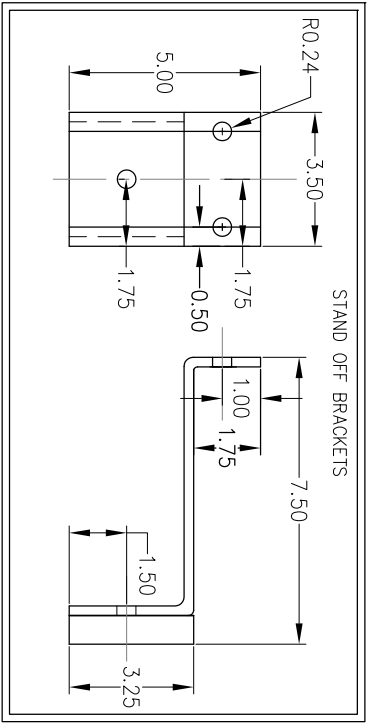
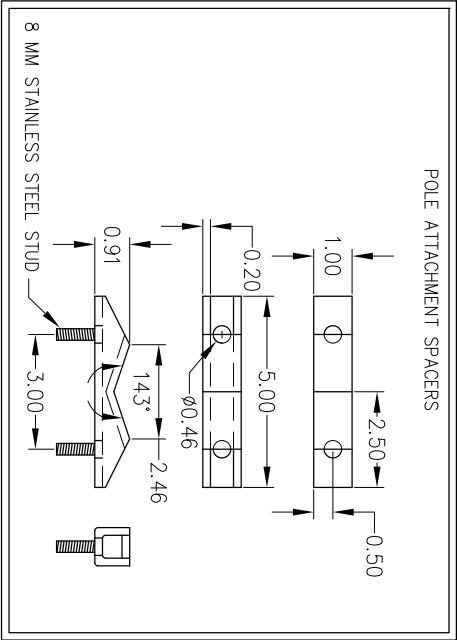
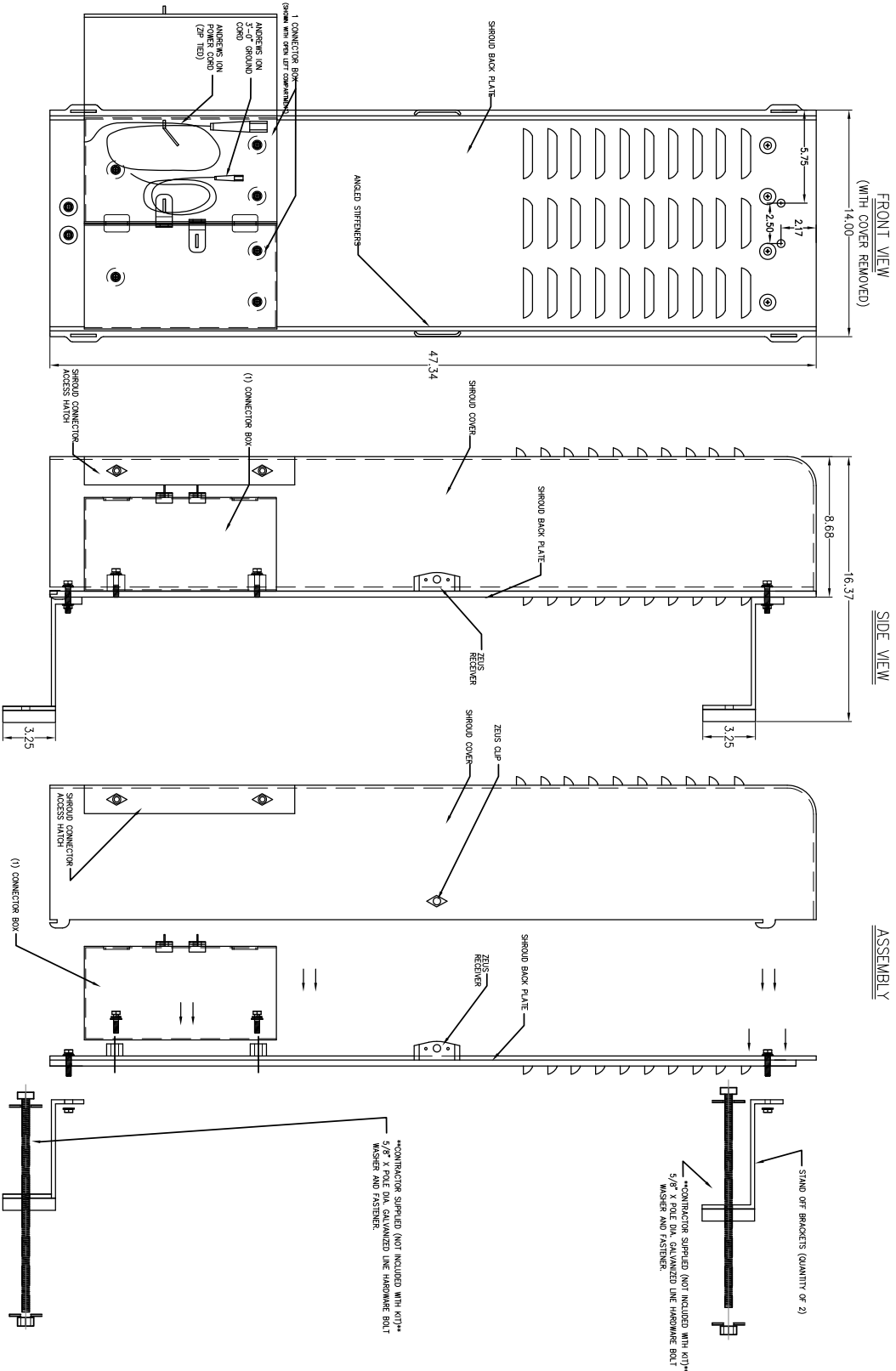
DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-2



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/18/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH LAKE FOREST, CA 92509
(949) 753-8807 OFFICE - (949) 753-8831 FAX

CLIENT:



STAMP:

SITE NAME:	MON17m1
SITE INFO:	VERIZON MONTECITO-MON17m1
SITE ADDRESS:	THOMAS BROS PACE 997 GRID C1 R.O.W. EAST SIDE OF ROMERO CANYON RD (ADJACENT TO 654 ROMERO CANYON RD) SANTA BARBARA, CA 93108 LAT: 34.4382586° LONG: -119.6016077°

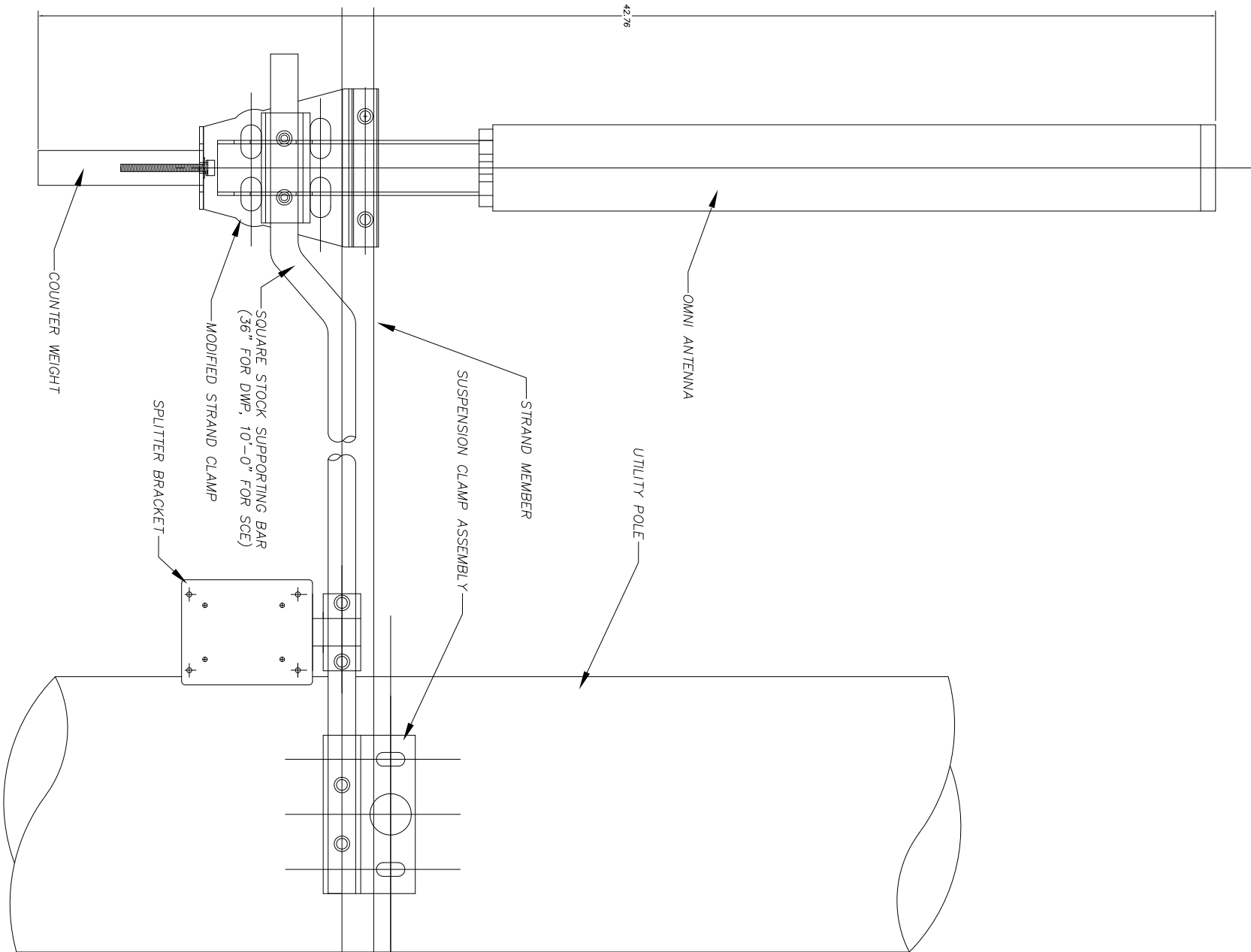
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DETAILS

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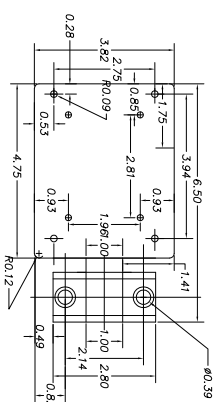
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FC

SHEET NUMBER:

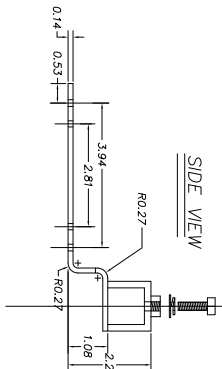


SPLITTER BRACKET

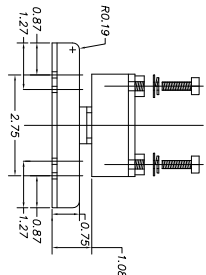
TOP VIEW



SIDE VIEW



FRONT VIEW

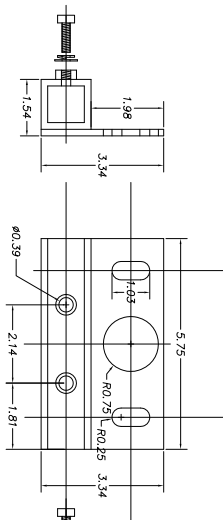


IN-LINE POLE
SUSPENSION CLAMP ASSEMBLY

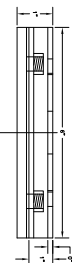
RIGHT SIDE VIEW

FRONT VIEW

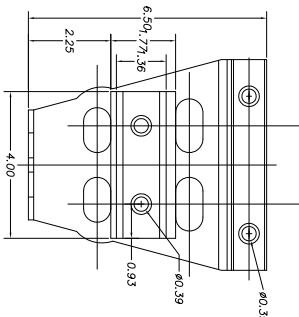
ASSEMBLY VIEW



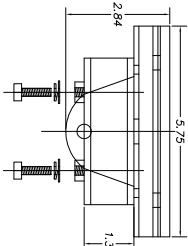
TOP VIEW
(ANTENNA FASTENER)



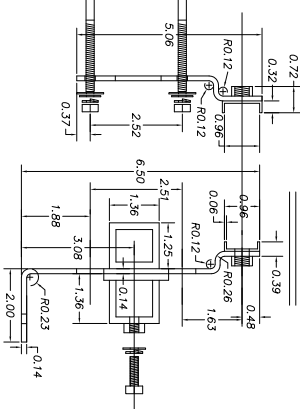
MODIFIED STRAND CLAMP (STRAND FASTENER)



TOP VIEW
(STRAND FASTENER)

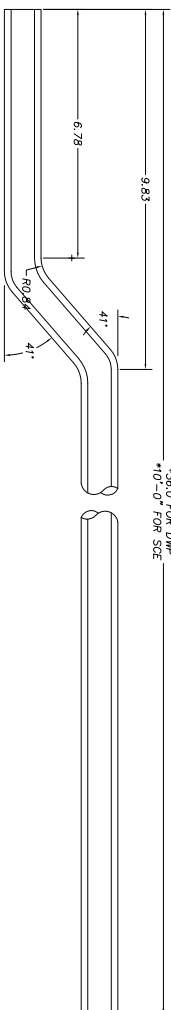


SIDE VIEW



SQUARE STOCK SUPPORTING BAR

*3/8" FOR DWP
*10'-0" FOR SCE



COUNTER WEIGHT



GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORM DRAIN MAIN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU, ION AND ELECTRICAL METER AT BASE OF POLE
3. NEW SHROUD ON POLE WITH NEW ION

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 10
TOPOGRAPHIC SURVEY	C-1 - SHEET 2 OF 10
TOPOGRAPHIC SURVEY	C-2 - SHEET 3 OF 10
SITE PLAN	A-1 - SHEET 4 OF 10
ENLARGED SITE PLAN	A-2 - SHEET 5 OF 10
PROPOSED ELEVATIONS	A-3 - SHEET 6 OF 10
GRADING PLAN	A-4 - SHEET 7 OF 10
DETAILS	D-1 - SHEET 8 OF 10
DETAILS	D-2 - SHEET 9 OF 10
DETAILS	D-3 - SHEET 10 OF 10

CROWN CASTLE NG WEST, INC

VERIZON MONTECITO-MON18
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108



GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			
SYMBOLS, LINETYPES AND HATCH PATTERNS			

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF BELLA VISTA
(ADJACENT TO 2299 BELLA VISTA)
SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, INC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 01/15/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
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ENGINEER/CONSULTANT:

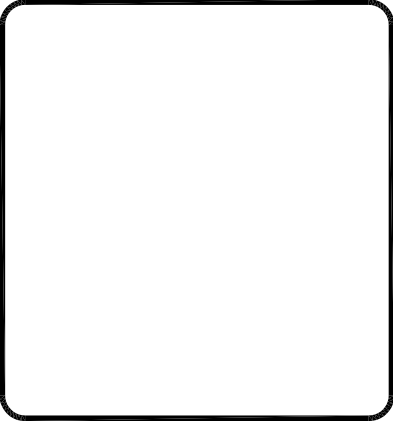
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON18
VERIZON MONTECITO-MON18

SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

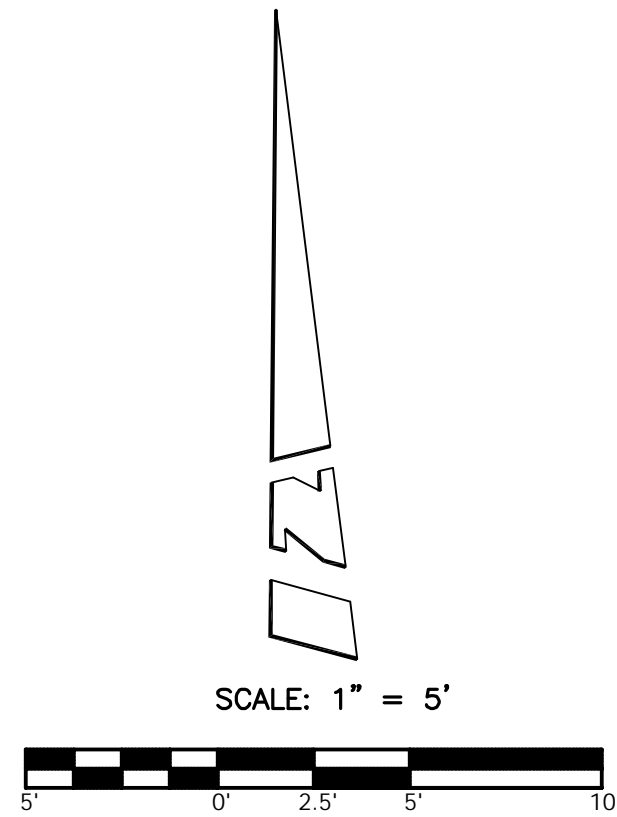
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DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

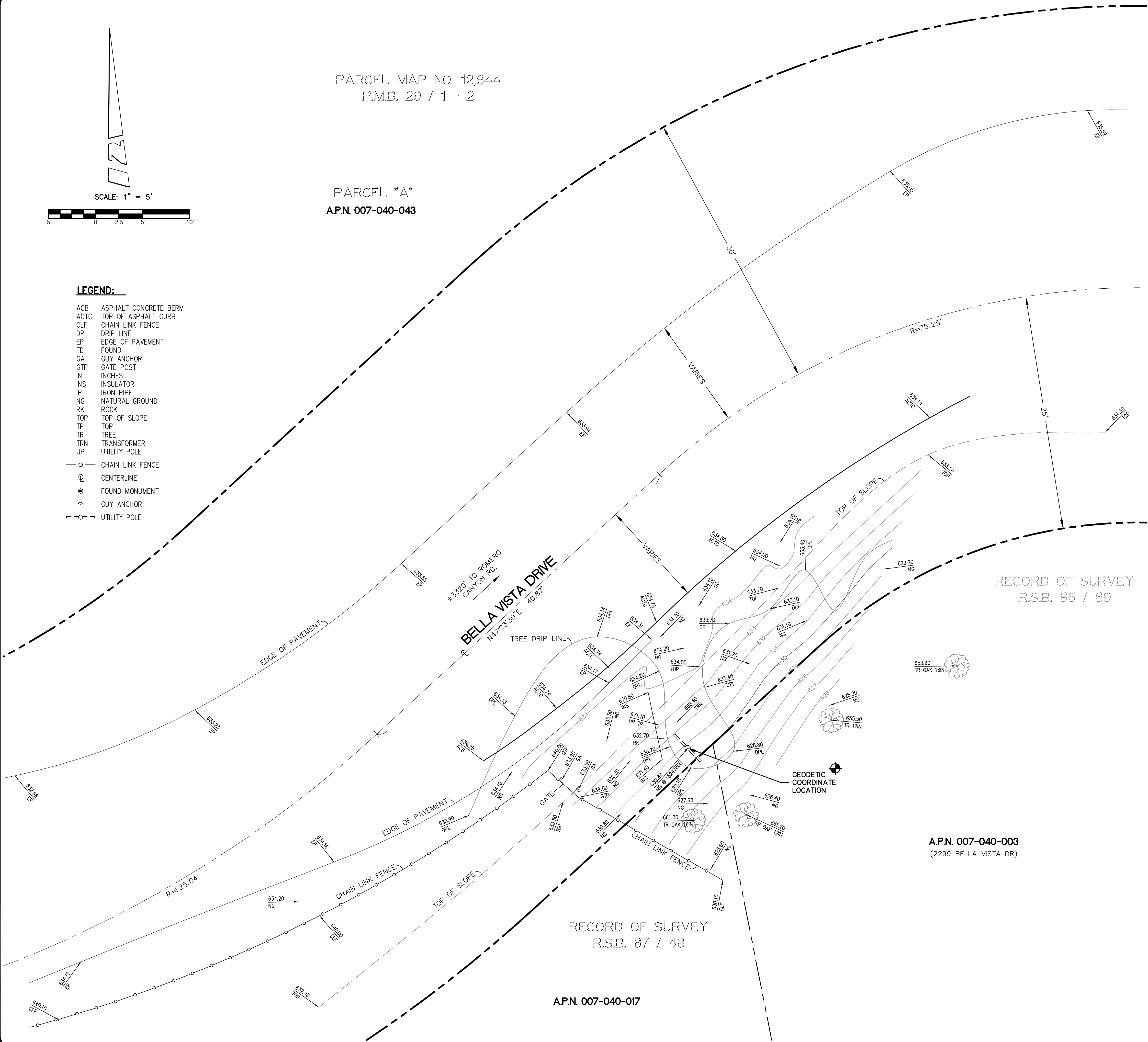


PARCEL MAP NO. 12,644
P.M.B. 29 / 1 - 2

PARCEL "A"
A.P.N. 007-040-043

LEGEND:

- ACB ASPHALT CONCRETE BERM
ACTC TOP OF ASPHALT CURB
CLF CHAIN LINK FENCE
DPL DRIP LINE
EP EDGE OF PAVEMENT
FD FOUND
GA GUY ANCHOR
GTP GATE POST
IN INCHES
INS INSULATOR
IP IRON PIPE
NG NATURAL GROUND
RK ROCK
TOP TOP OF SLOPE
TP TOP
TR TREE
TRN TRANSFORMER
UP UTILITY POLE
○ CHAIN LINK FENCE
⊕ CENTERLINE
● FOUND MONUMENT
~ GUY ANCHOR
= ○ = UTILITY POLE



COORDINATES:

LATITUDE 34°26'52.94" N
LONGITUDE 119°35'59.17" W

NAD 1983 GEODETIC COORDINATES AND ELEVATIONS WERE ESTABLISHED USING SURVEY GRADE "ASITECH" G.P.S. RECEIVERS AND ASITECH SURVEY GRADE PRECISION SOFTWARE FOR POST-PROCESSING.

BASIS OF BEARINGS:

THE CENTERLINE OF BELLA VISTA DRIVE BEING NORTH 62°08'00" EAST PER FOUND MONUMENTS ON RECORD OF SURVEY, R.S.B. 85/69, RECORDS OF SANTA BARBARA COUNTY. (NOT SHOWN HEREON)

ASSESSOR'S IDENTIFICATION:

N/A

AREA:

N/A

BENCH MARK REFERENCE:

U.S.G.S. BENCH MARK "BM 500"

UNITED STATES GEOLOGICAL SURVEY BENCH MARK "BM 500" AS SHOWN ON THE "CARPINTERIA" 7.5 MINUTE QUADRANGLE MAP.

ELEVATION: 502.5 FEET A.M.S.L. (NAVD88) (DATUM VERIFIED IN FIELD TO BE WITHIN 1-A ACCURACY STANDARDS)

TITLE REPORT IDENTIFICATION:

N/A

EASEMENT NOTES:

N/A

LEGAL DESCRIPTION:

N/A

DATE OF SURVEY:

JULY 18, 2013

SURVEYORS NOTE:

THE RIGHT OF WAY LINES AND THEIR DIMENSIONS SHOWN HEREON ARE PER READILY AVAILABLE RECORDED INFORMATION AND THEIR LOCATIONS ARE APPROXIMATE, PENDING RECEIPT OF TITLE REPORT(S) FOR THE ADJACENT REAL PROPERTY.

LIVING PLANTS STATEMENT:

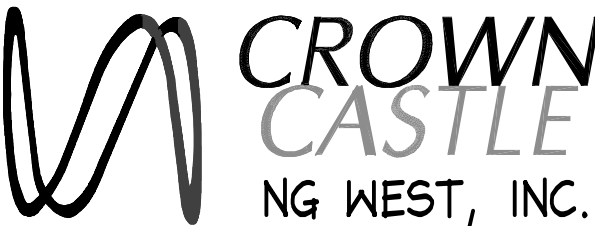
THE HEIGHTS AND ELEVATIONS FOR THE TREES, BUSHES AND OTHER LIVING PLANTS SHOWN HEREON, SHOULD BE CONSIDERED APPROXIMATE (+/-) AND ONLY VALID FOR THE DATE OF THIS SURVEY. THEY ARE PROVIDED AS A GENERAL REFERENCE AND SHOULD NOT BE USED FOR DESIGN PURPOSES.

REV:	DATE/BY:	REVISION DESCRIPTION:
1	07/30/13 MDL	ISSUED FOR REVIEW

ENGINEER/CONSULTANT:



SITE BUILDER:



SURVEYOR:



JN. 706.231

STAMP:



SITE INFO:

SITE NAME:

MON18
VERIZON MONTECITO-MON18

SITE ADDRESS:

R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108

SHEET TITLE:

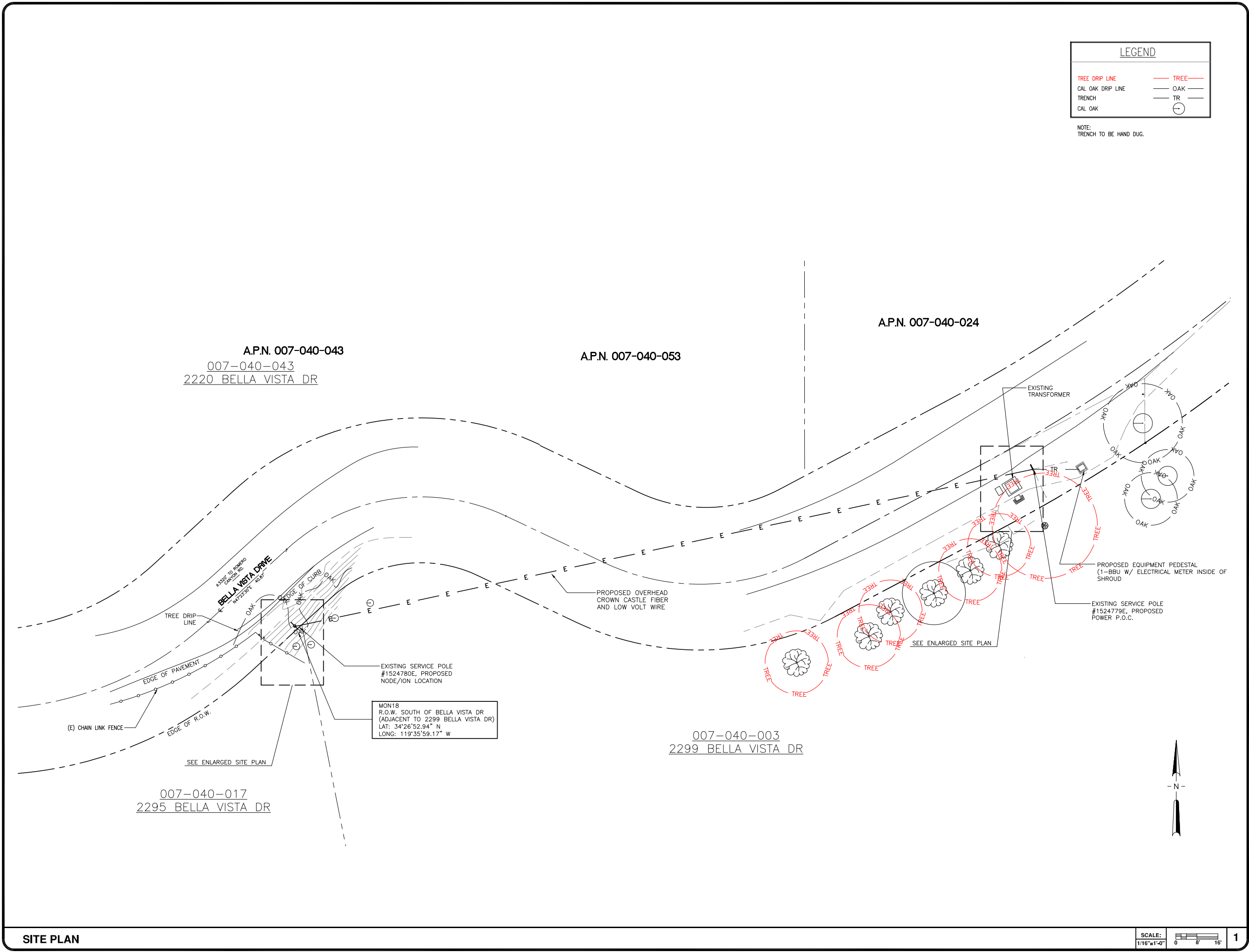
TOPOGRAPHIC SURVEY

DRAWING INFO:

DWG. NAME:	DRAWN BY:	DATE:
MON18	MDL	07/30/13

SHEET NUMBER:

1 OF 1 C-1



REV.	DATE/BY:	REVISION DESCRIPTION:
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ENGINEER/CONSULTANT:

Civil Engineer

CDG
CONNELL DESIGN GROUP, LLC
CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:

CROWN CASTLE
NG WEST, INC.

STAMP:

SITE INFO:

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MON18
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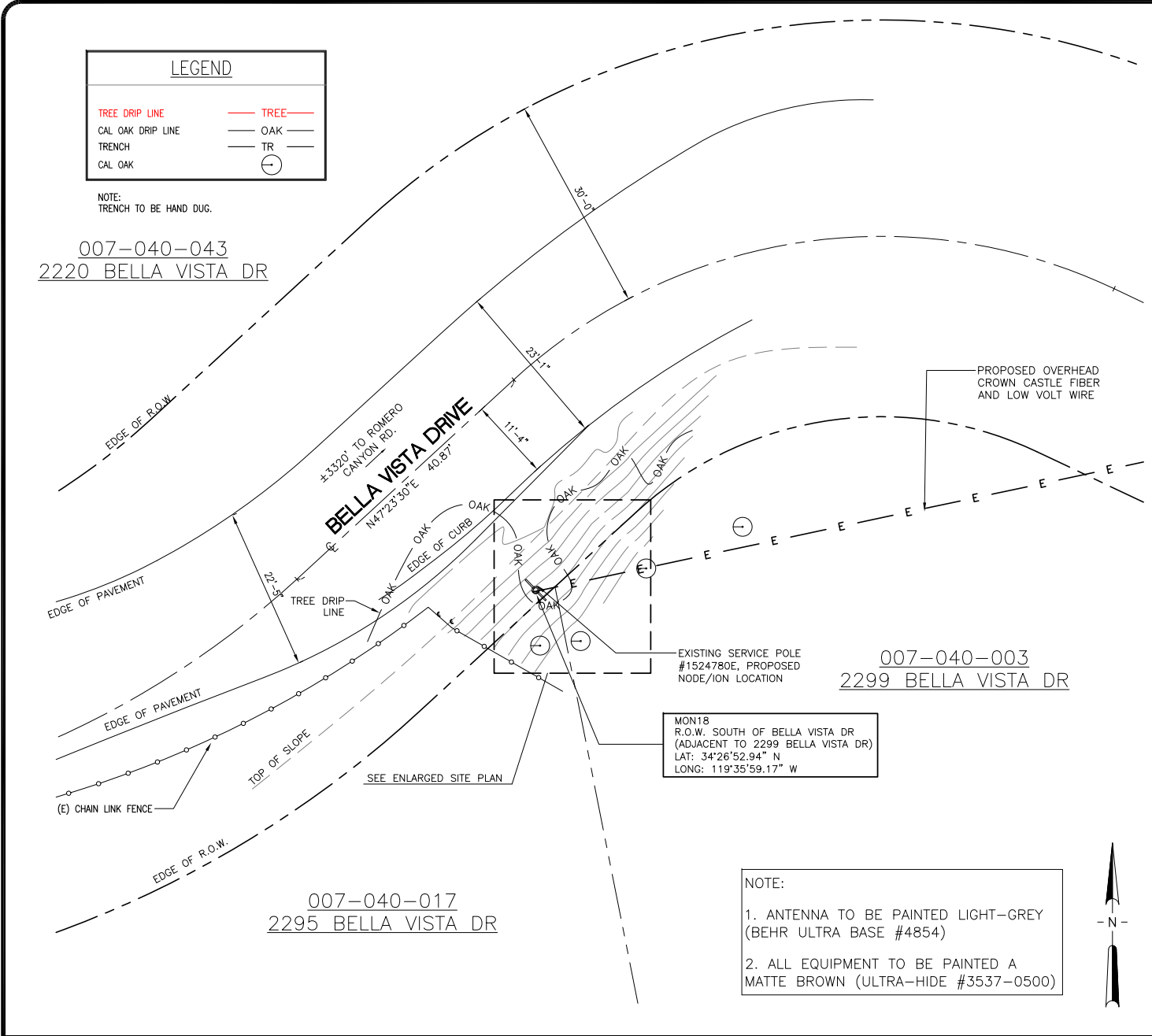
SITE PLAN

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-1



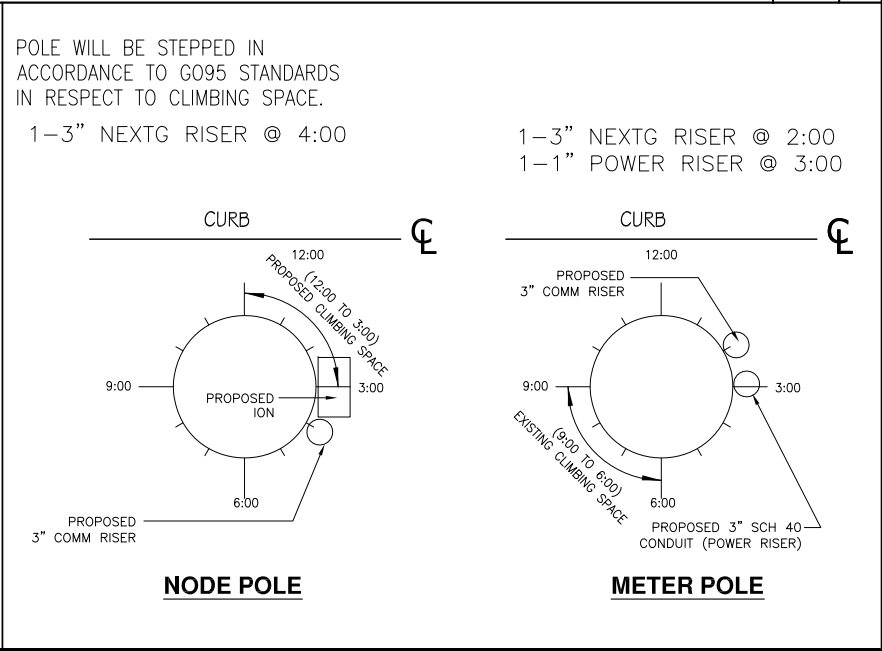
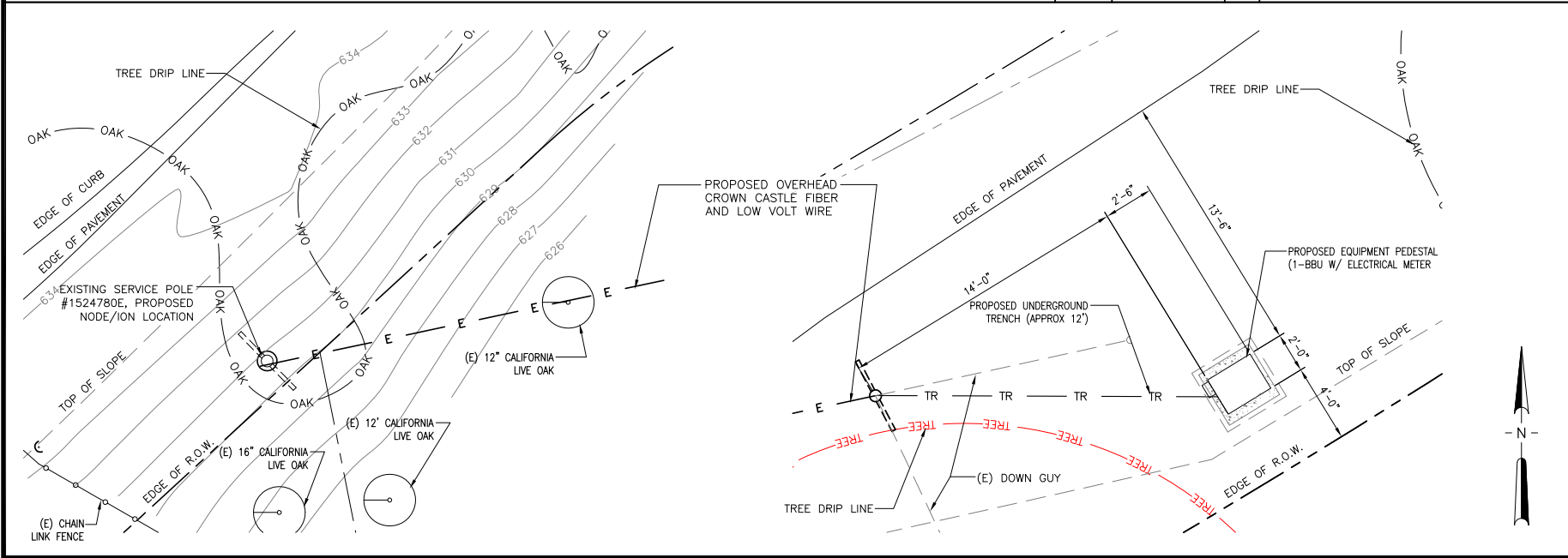
NODE POLE



METER POLE

SITE PLAN

EXISTING PHOTOS



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SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-2

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

REV.	DATE/BY:	REVISION DESCRIPTION:
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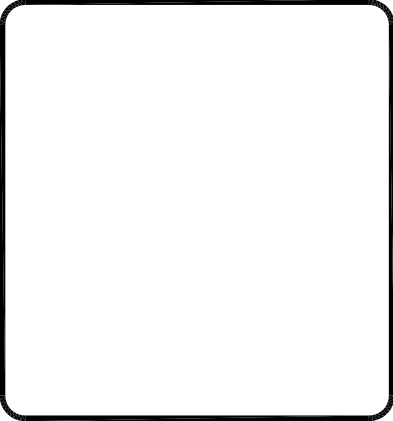
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R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
LONG: -119.59984

SHEET TITLE:

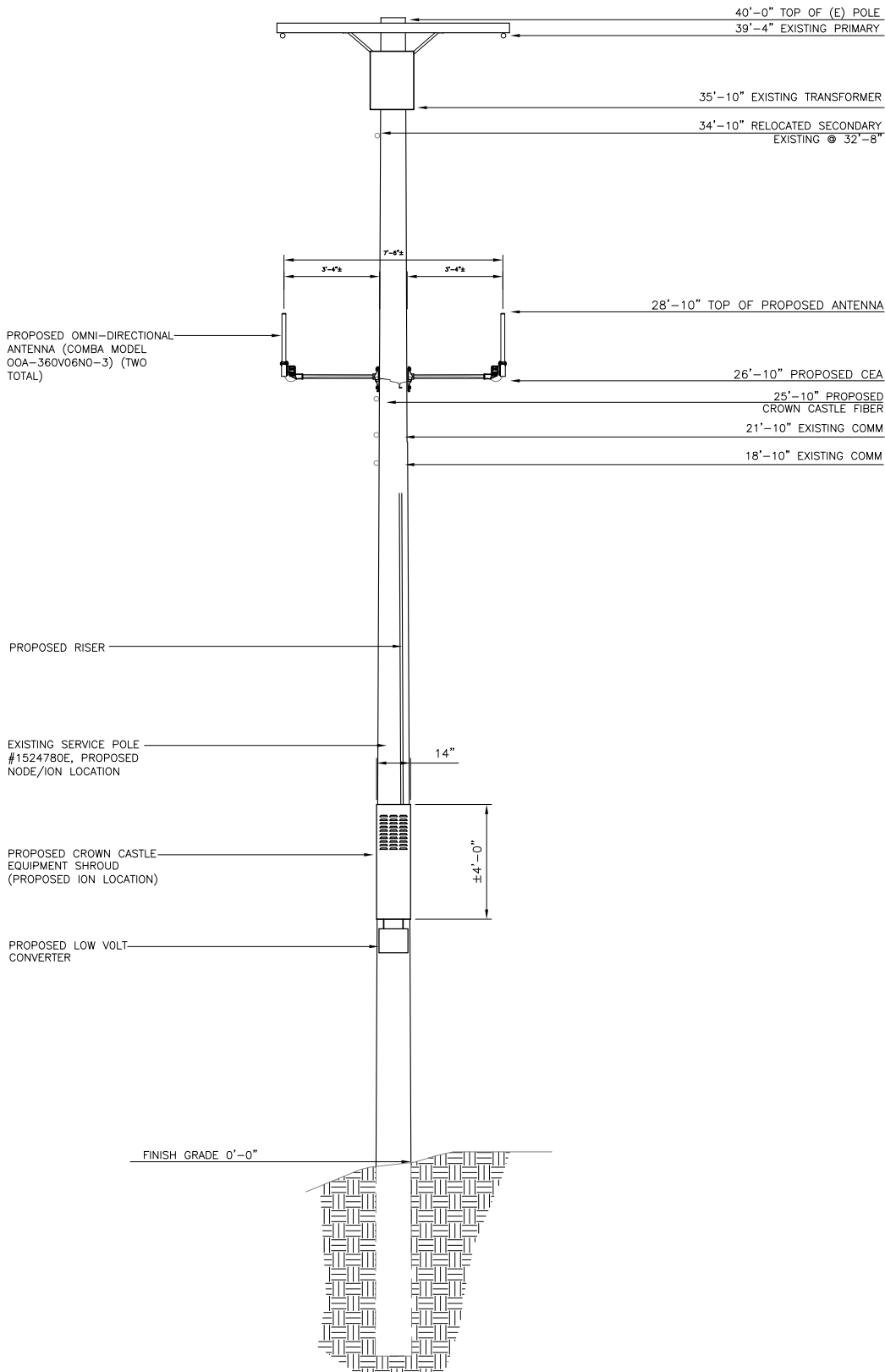
ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3

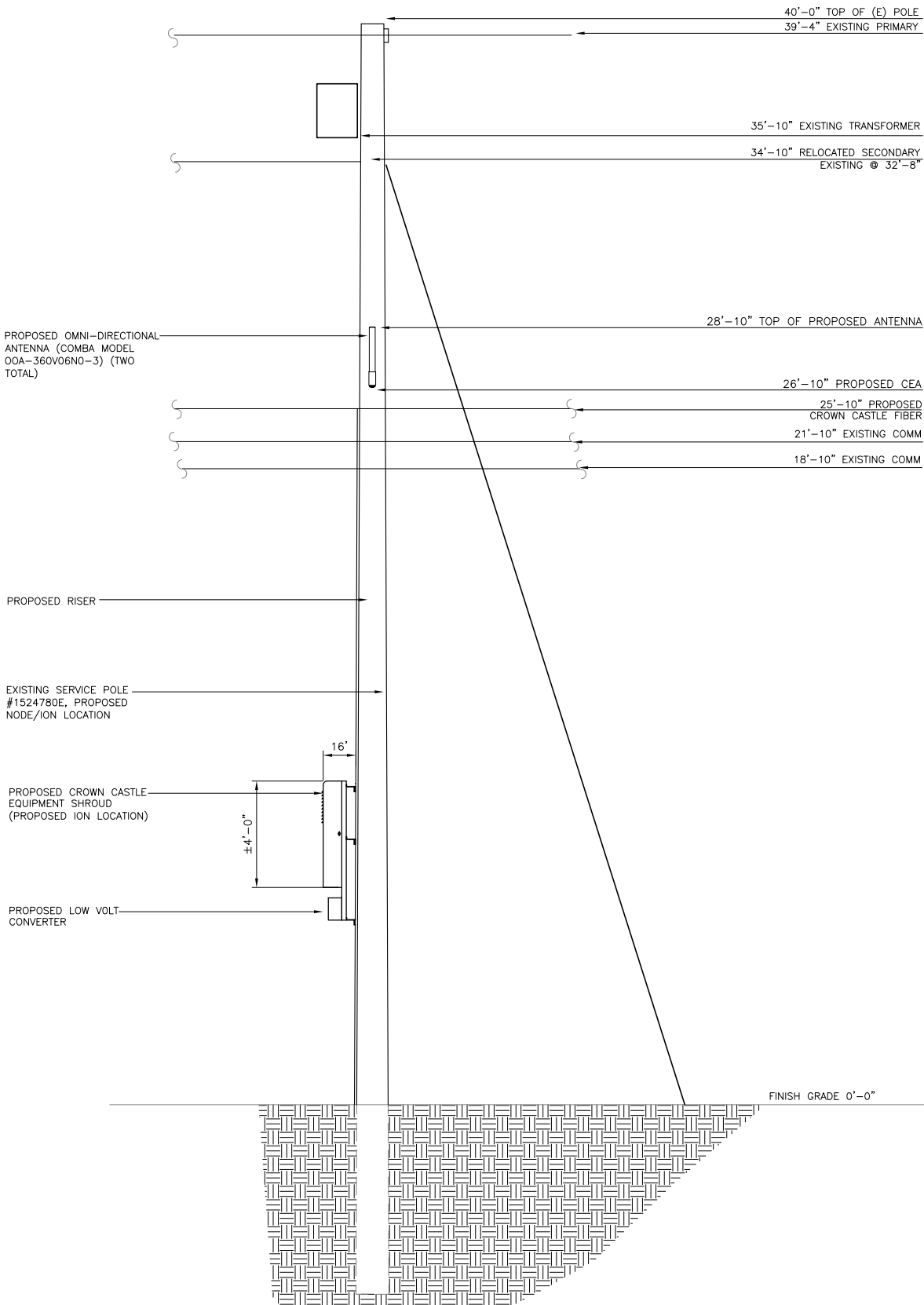


PROPOSED ELEVATION LOOKING EAST



1

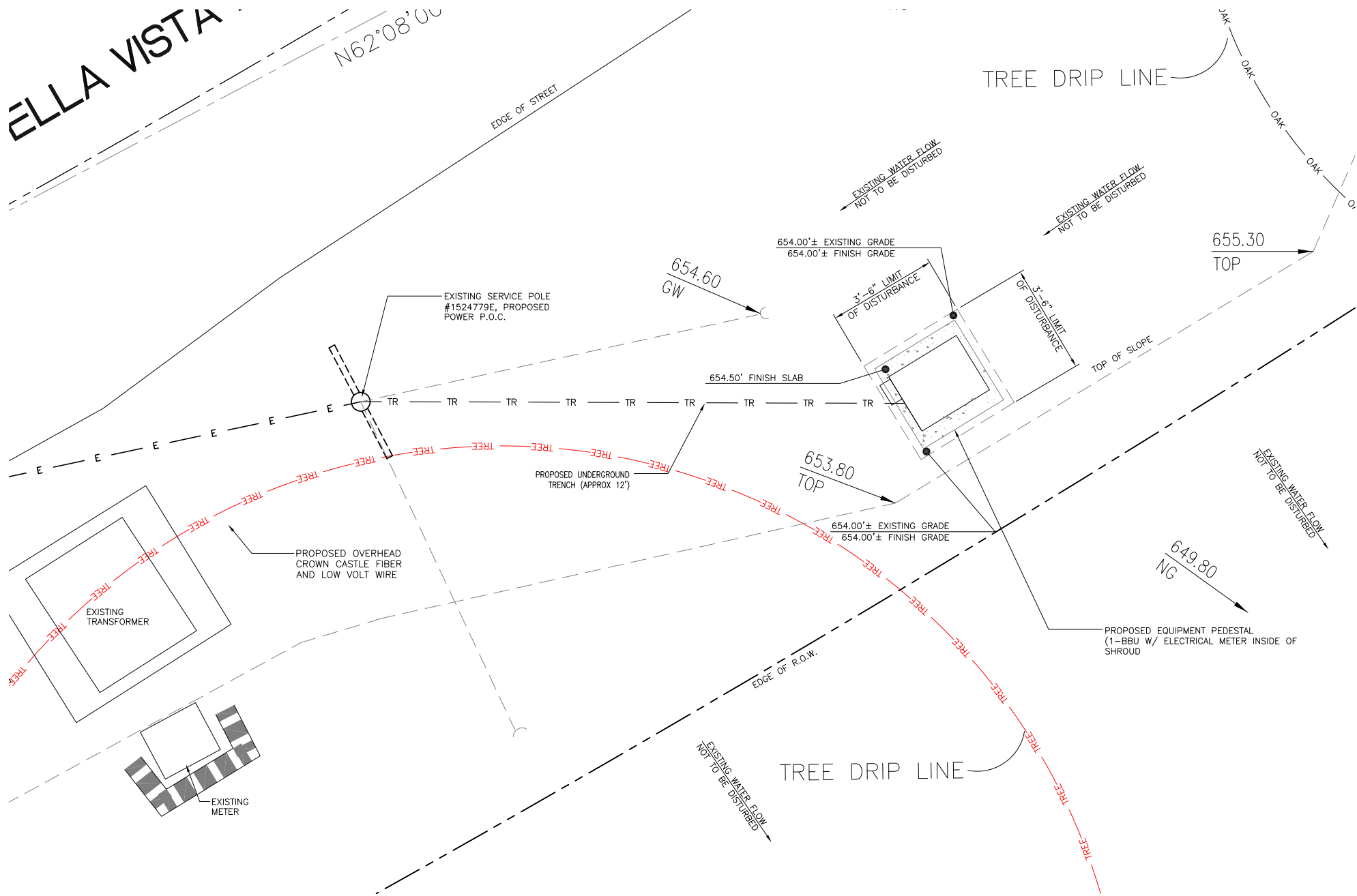
PROPOSED ELEVATION LOOKING SOUTH



2

NOTE:
NO CUT AND FILL REQUIRED

GRADING CALCULATION		
CONCRETE PAD:	2.997	CF
VAULT:	66.9375	CF
12'Lx3'Dx.5'W TRENCH:	17.25	CF
TOTAL:	87.1845	CF



LEGEND	
TREE DRIP LINE	— TREE —
CAL OAK DRIP LINE	— OAK —
TRENCH	— TR —
CAL OAK	⊕

REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 01/15/2013	ISSUED FOR REVIEW
1	SA 03/18/2013	ISSUED FOR APPROVAL
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3	FC 03/08/2014	ISSUED FOR APPROVAL

ENGINEER/CONSULTANT:

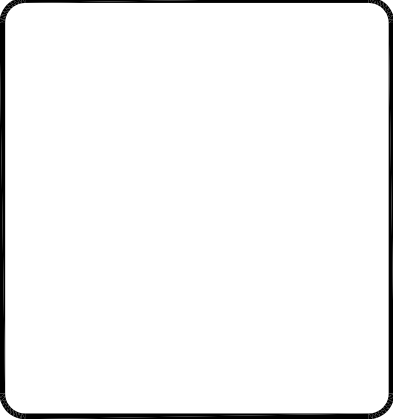
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME:
MON18
VERIZON MONTECITO-MON18
SITE ADDRESS: THOMAS BROS PAGE xxx GRID xx
R.O.W. SOUTH SIDE OF BELLA VISTA DR
(ADJACENT TO 2299 BELLA VISTA DR)
SANTA BARBARA, CA 93108
LAT: 34.44805
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SHEET TITLE:

**SITE PLAN AND
ELEVATION**

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-4

Outdoor Omni-directional Antenna

COMBA

OOA-360V06N0-3 VPol, 696-960/1710-2170MHz, 360°, 4.0/6.0 dBi

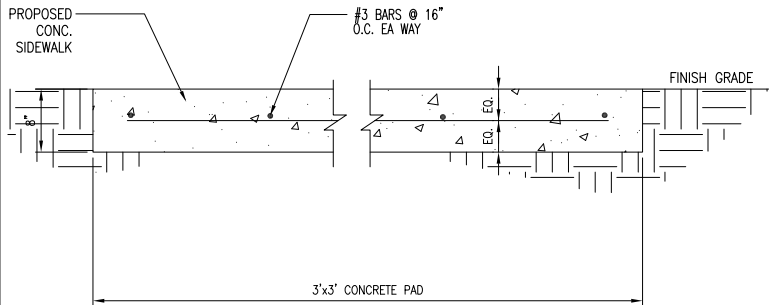
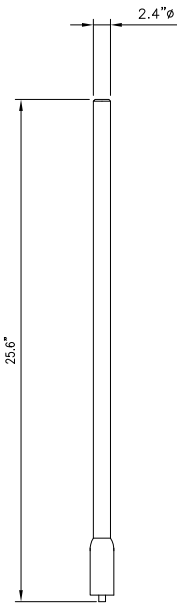
Technical Specifications

Electrical

Frequency Range	MHz	696-960	1710-2170
Polarization		Vertical	
Gain	dBi	4.0±1	6.0±1
Horizontal Beamwidth	deg	360	
Vertical Beamwidth	deg	22-53	20-26
Electrical Downtilt-Fixed	deg	0	
VSWR		1.8	
Maximum Power	W	200	
Impedance		50	
Lightning Protection		Direct Ground	

Mechanical

Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)
Weight, with Mounting kit	kg (lb)	1 (2.2)
Radome Material and Color		Fiberglass, Light Grey
Radiating Element Material		Copper
Connector Type and Location		N-Female, Bottom
Operational Temperature		-55 to +70
Operational Humidity	%	95
Operational Wind Speed	km/h (mph)	200 (124)
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)
Shipping Weight	kg (lb)	1.2 (2.65)



ANTENNA SPECIFICATIONS

N.T.S.

1

CONCRETE PAD

N.T.S.

3

Electrical

Power Supply	
Mains power, Vac	115 or 230
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	
Uplink	698 to 716/776 to 787
Downlink	728 to 757

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	
Uplink	824 to 849
Downlink	869 to 894

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell, PCS bands and 700MHz MIMO



ION-M7P/7P/85P/19P

Noise figure, dB	
ICP3 optimized	+10 max.
Noise figure optimized	+6 max. 4.5 typical

Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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ION-M7P/7P/85P/19P

N.T.S.

2

TRENCH

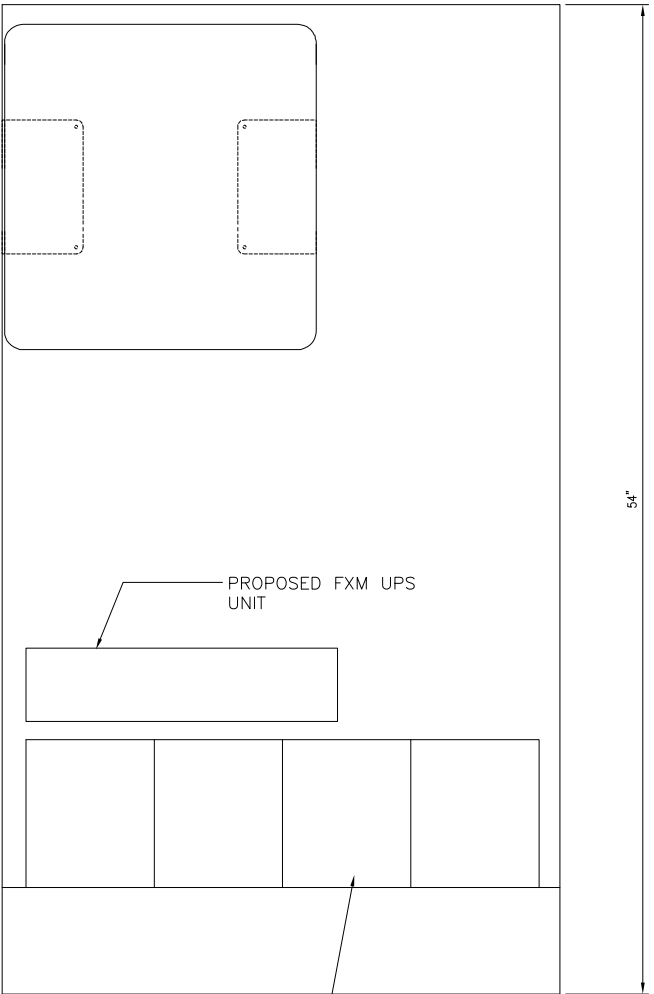
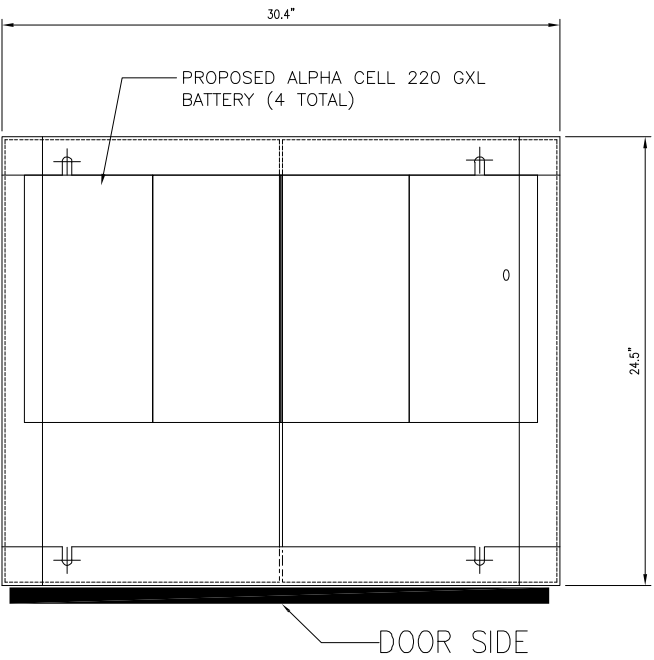
N.T.S.

4

EQUIPMENT PEDESTAL

N.T.S.

5



PROPOSED ALPHA CELL 220 GXL BATTERY (4 TOTAL)

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ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



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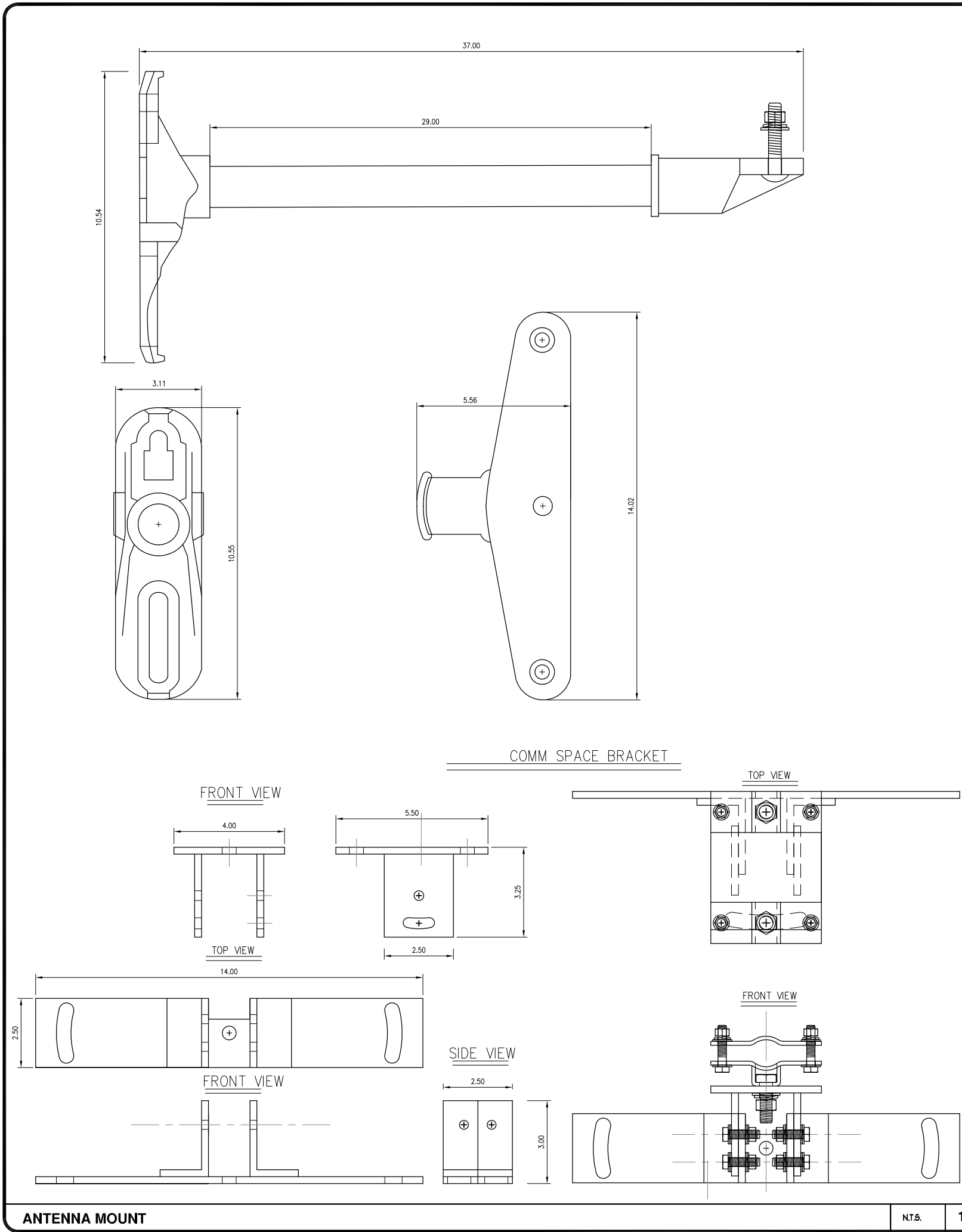
DETAILS


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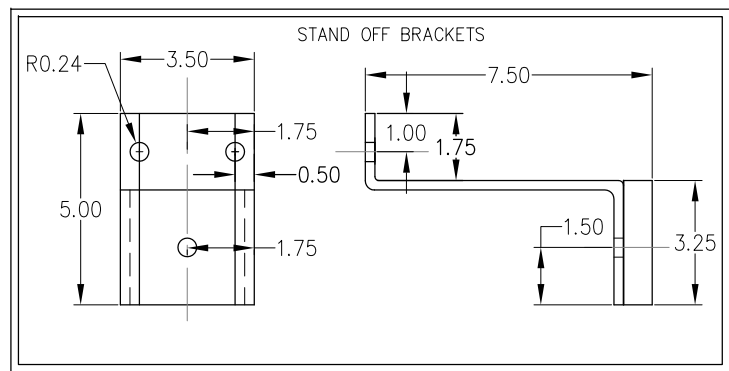
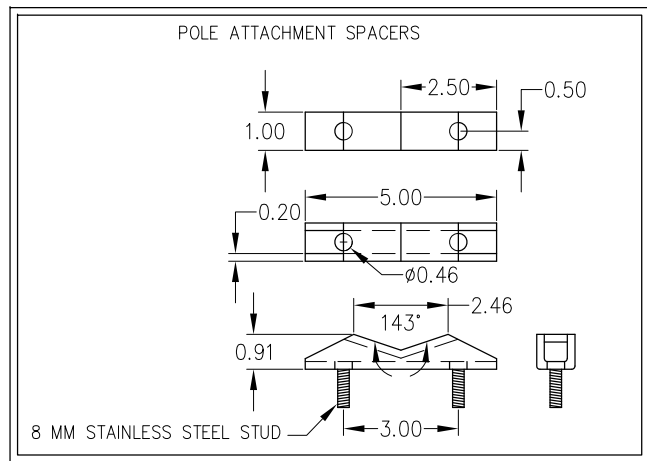
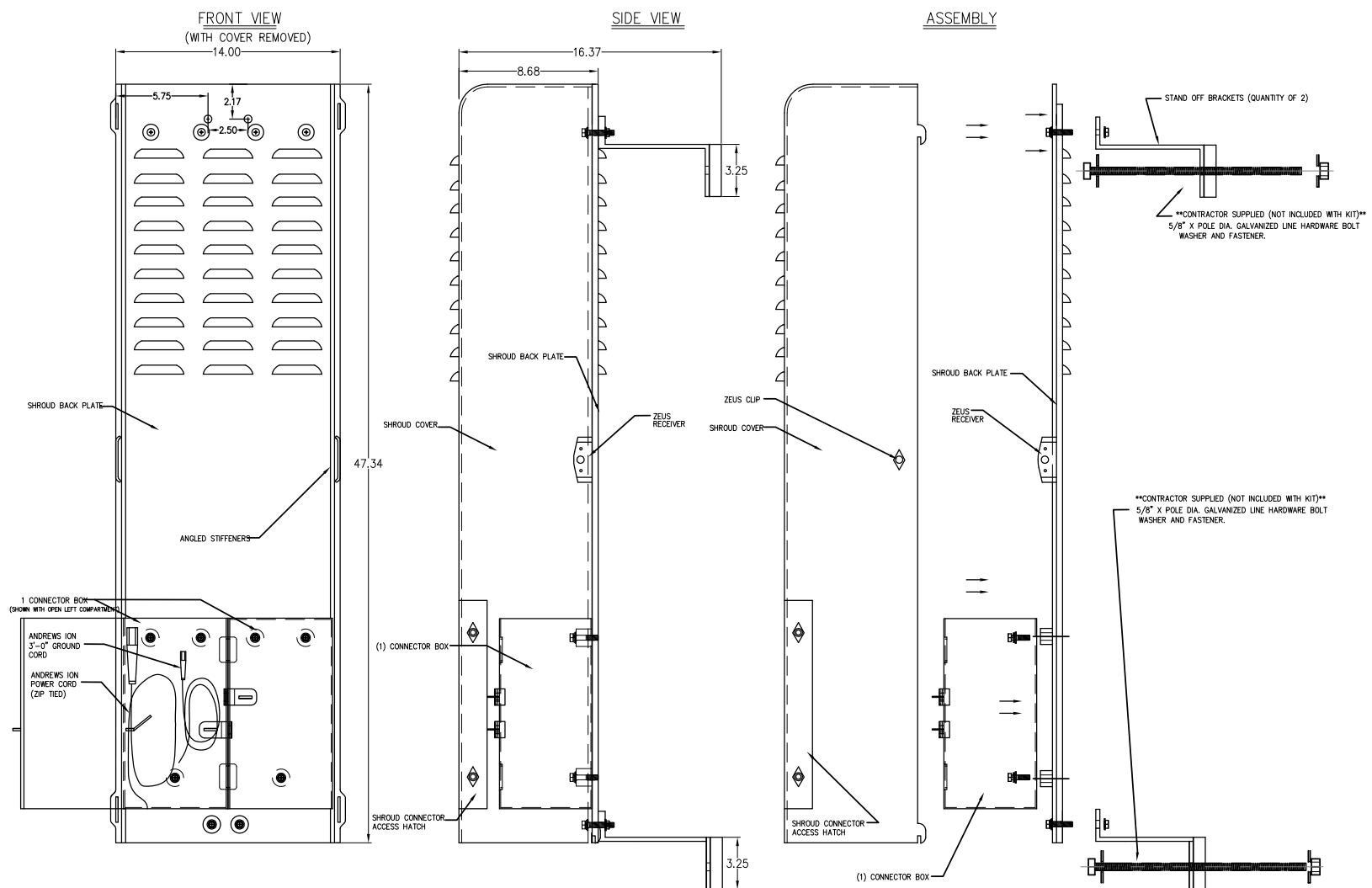
DRAWN BY:
FC

SHEET NUMBER:

D-1



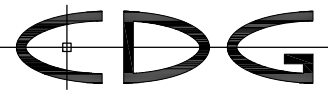
AlphaCell General Specifications			
Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement	4 to 5 year full replacement	4 to 5 year full replacement
Service Life:	Extended 220	Extended 195	Extended 165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC
Specifications ³			
Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes):	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2900	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75V/PC)	108Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70V/PC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	67/30.5	63/28.6
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm):	13.42/340.8	13.42/340.9	12.5/317.8
Depth (in/mm):	6.80/172.7	6.80/172.7	6.63/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Float Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charge:	0.5% RMS or 1.5% of float charge voltage recommended for best results. Max. allowed = 4% P-P		
Notes:			
1. Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.			
2. Runtime is calculated using a 25A DC constant current load.			
3. Dimensions at top of battery.			
4. See AlphaCell Users Guide for Additional Details.			
Typical Standby Time in Minutes @ 25°C/77°F			
20250Vdc @ 4A	220	195	165
20250Vdc @ 6A	220	195	165
20250Vdc @ 8A	220	195	165
20250Vdc @ 10A	220	195	165
20250Vdc @ 12A	220	195	165
20250Vdc @ 14A	220	195	165
20250Vdc @ 16A	220	195	165
20250Vdc @ 18A	220	195	165
20250Vdc @ 20A	220	195	165
20250Vdc @ 22A	220	195	165
20250Vdc @ 24A	220	195	165
20250Vdc @ 26A	220	195	165
20250Vdc @ 28A	220	195	165
20250Vdc @ 30A	220	195	165
20250Vdc @ 32A	220	195	165
20250Vdc @ 34A	220	195	165
20250Vdc @ 36A	220	195	165
20250Vdc @ 38A	220	195	165
20250Vdc @ 40A	220	195	165
20250Vdc @ 42A	220	195	165
20250Vdc @ 44A	220	195	165
20250Vdc @ 46A	220	195	165
20250Vdc @ 48A	220	195	165
20250Vdc @ 50A	220	195	165
20250Vdc @ 52A	220	195	165
20250Vdc @ 54A	220	195	165
20250Vdc @ 56A	220	195	165
20250Vdc @ 58A	220	195	165
20250Vdc @ 60A	220	195	165
20250Vdc @ 62A	220	195	165
20250Vdc @ 64A	220	195	165
20250Vdc @ 66A	220	195	165
20250Vdc @ 68A	220	195	165
20250Vdc @ 70A	220	195	165
20250Vdc @ 72A	220	195	165
20250Vdc @ 74A	220	195	165
20250Vdc @ 76A	220	195	165
20250Vdc @ 78A	220	195	165
20250Vdc @ 80A	220	195	165
20250Vdc @ 82A	220	195	165
20250Vdc @ 84A	220	195	165
20250Vdc @ 86A	220	195	165
20250Vdc @ 88A	220	195	165
20250Vdc @ 90A	220	195	165
20250Vdc @ 92A	220	195	165
20250Vdc @ 94A	220	195	165
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20250Vdc @ 414A	220	195	165
20250Vdc @ 416A	220		



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ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS

26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:

MON18

VERIZON MONTECITO-MON18

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LONG: -119.59984

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-3

GENERAL NOTES

1. APPROVAL OF THESE PLANS BY THE CITY ENGINEER DOES NOT AUTHORIZE ANY WORK TO BE PERFORMED UNTIL A PERMIT HAS BEEN ISSUED.
2. UPON ISSUANCE OF A PERMIT, NO WORK WILL BE PERMITTED ON WEEKENDS OR HOLIDAYS WITHOUT PERMISSION FROM THE ENGINEERING DEPARTMENT.
3. THE APPROVAL OF THIS PLAN OR ISSUANCE OF A PERMIT BY THE LOCAL JURISDICTION DOES NOT AUTHORIZE THE SUBDIVIDER AND OWNER TO VIOLATE ANY FEDERAL, STATE OR CITY LAWS, ORDINANCES, REGULATIONS, OR POLICIES, INCLUDING, BUT NOT LIMITED TO, THE FEDERAL ENDANGERED SPECIES ACT OF 1973 AND AMENDMENTS THERETO (16 USC SECTION 1531 ET.SEQ.).
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEY MONUMENTS AND/OR VERTICAL CONTROL BENCHMARKS WHICH ARE DISTURBED OR DESTROYED BY CONSTRUCTION. A LAND SURVEYOR MUST FIELD LOCATE, REFERENCE, AND/OR PRESERVE ALL HISTORICAL OR CONTROLLING MONUMENTS PRIOR TO ANY EARTHWORK. IF DESTROYED, SUCH MONUMENTS SHALL BE REPLACED WITH APPROPRIATE MONUMENTS BY A LAND SURVEYOR, A CORNER RECORD OR RECORD OF SURVEY, AS APPROPRIATE, SHALL BE FIELD AS REQUIRED BY THE PROFESSIONAL LAND SURVEYORS ACT. IF ANY VERTICAL CONTROL IS TO BE DISTURBED OR DESTROYED, THE LOCAL JURISDICTION FIELD SURVEY SECTION MUST BE NOTIFIED, IN WRITING, AT LEAST 3 DAYS PRIOR TO THE CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COST OF REPLACING ANY VERTICAL CONTROL BENCHMARKS DESTROYED BY THE CONSTRUCTION.
5. IMPORTANT NOTICE: SECTION 4216 OF THE GOVERNMENT CODE REQUIRES A DIG ALERT IDENTIFICATION NUMBER BE ISSUED BEFORE A "PERMIT TO EXCAVATE" WILL BE VALID. FOR YOUR DIG ALERT I.D. NUMBER, CALL UNDERGROUND SERVICE ALERT, TWO DAYS BEFORE YOU DIG.
6. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
7. CONTRACTOR SHALL SUBMIT TO THE LOCAL JURISDICTION, A CONSTRUCTION PLAN TO PROTECT WATER MAINS PRIOR TO COMMENCING CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUIT, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
9. CONTRACTOR SHALL NOTIFY THE LOCAL JURISDICTION. A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK WITHIN 10' OF ALL SEWER, WATER, AND STORMDRAIN MAN INCLUDING ALL CROSSINGS.
10. THIS PROJECT WILL BE INSPECTED BY ENGINEERING AND CAPITAL PROJECTS DEPARTMENT, FIELD ENGINEERING DIVISION.
11. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY RESIDENT ENGINEER PRIOR TO THE ACCEPTANCE OF THIS PROJECT.
12. PUBLIC IMPROVEMENT SUBJECT TO DESUETUDE OR DAMAGE." IF REPAIR OR REPLACEMENT OF SUCH PUBLIC IMPROVEMENTS IS REQUIRED, THE OWNER SHALL OBTAIN THE REQUIRED PERMITS FOR WORK IN THE PUBLIC RIGHT-OF-WAY, SATISFACTORY TO THE PERMIT - ISSUING AUTHORITY.
13. PRIOR TO ANY DISTURBANCE TO THE SITE, EXCLUDING UTILITY MARKS-OUTS AND SURVEYING, THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR A PRE-CONSTRUCTION MEETING WITH THE LOCAL JURISDICTION FIELD ENGINEERING DIVISION.
14. PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION SHOWN ON THESE PLANS. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE. THE CONTRACTOR IS RESPONSIBLE TO ATTEND THE LOCAL JURISDICTIONS MONTHLY UTILITY COORDINATION COMMITTEE THE CONSTRUCTION ACTIVITIES WITH THE CITY AND ALL OTHER CONTRACTORS SO THAT NO TRENCH IS CUT WITHIN ANY OF THE CITY STREETS THAT HAVE BEEN CONSTRUCTED, REPAIRED, OR SLURRY SEALED WITHIN THREE YEARS OF THE STREET CONSTRUCTION/RESURFACING DATE.
15. MANHOLES OR COVERS SHALL BE LABELED "CROWN CASTLE" OR "CROWN CASTLE NG WEST".
16. CONTRACTOR SHALL IMPLEMENT AN EROSION AND SEDIMENT CONTROL PROGRAM DURING THE PROJECT CONSTRUCTION ACTIVITIES. THE PROGRAM SHALL MEET THE APPLICABLE REQUIREMENTS OF THE STATE WATER RESOURCE CONTROL BOARD.
17. THE CONTRACTOR SHALL HAVE EMERGENCY MATERIALS AND EQUIPMENT ON HAND FOR UNFORESEEN SITUATIONS, SUCH AS DAMAGE TO UNDERGROUND WATER, SEWER, AND STORM DRAIN FACILITIES WHEREBY FLOWS MAY GENERATE EROSION AND SEDIMENT POLLUTION.

SPECIAL NOTES

- THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTIONS TO THE CONTRACTOR BY THE ENGINEER OF WORK. THE CITY ENGINEER'S SIGNATURE ON THESE PLANS DOES NOT CONSTITUTE APPROVAL OF THESE NOTES AND THE CITY WILL NOT BE RESPONSIBLE FOR THEIR ENFORCEMENT.
1. THE CONTRACTOR SHALL VERIFY THE LOCATION EXISTING UNDERGROUND UTILITIES INCLUDING SEWER LATERALS AND WATER SERVICES TO INDIVIDUAL LOTS BOTH VERTICAL AND HORIZONTAL PRIOR TO COMMENCING IMPROVEMENT OPERATIONS.
2. CONTRACTOR SHALL MAKE EXPLORATION EXCAVATIONS AND LOCATE EXISTING FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS OF PLANS IF REVISION IS NECESSARY BECAUSE OF LOCATION OF EXISTING UTILITIES.
3. LOCATION AND ELEVATIONS OF IMPROVEMENTS, TO BE MET BY WORK, SHALL BE CONFIRMED BY FIELD MEASUREMENT PRIOR TO CONSTRUCTION OF NEW WORK.
4. GRADES SHOWN ARE FINISH GRADES, CONTRACTOR SHALL DETERMINE NECESSARY SUB GRADE ELEVATIONS AND SHALL CONSTRUCT SMOOTH TRANSITION BETWEEN FINISH GRADES SHOWN.
5. CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE RESPONSIBILITY FOR JOB SITE CONDITION DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS PROVISION SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS; AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXPECTING FOR LIABILITY ARISING FROM SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
6. THE CONTRACTOR SHALL BE TOTALLY RESPONSIBLE FOR COMPLIANCE WITH THE PROVISIONS OF THE STATE OF CALIFORNIA SAFETY ORDERS.
7. THE LOCATIONS OF ALL EXISTING UTILITIES SHOWN ON THESE PLANS ARE FROM EXISTING RECORDS AND CORROBORATED, WHERE POSSIBLE WITH FIELD TIES. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THE LOCATIONS SHOWN, BOTH HORIZONTALLY AND VERTICALLY, PRIOR TO CONSTRUCTION. IF EXISTING LOCATIONS VARY SUBSTANTIALLY FROM THE PLANS, THE ENGINEER SHOULD BE NOTIFIED TO MAKE ANY CONSTRUCTION CHANGES REQUIRED.
8. THE CONTRACTOR SHALL PROVIDE TEMPORARY SUPPORT FOR ALL SEWER AND WATER MAIN UNDER CROSSING IN ACCORDANCE WITH PART 1 SECTION 5-2 OF THE STANDARD SPECIFICATION.
9. THE CONTRACTOR SHALL REPLACE OR REPAIR ALL TRAFFIC SIGNAL LOOPS, CONDUITS, AND LANE STRIPING DAMAGED DURING CONSTRUCTION.
10. THE CONTRACTOR SHALL SUBMIT WORK PLANS FOR ALL BORE OPERATIONS TWO WEEKS PRIOR TO COMMENCING WORK.
11. CONTRACTOR SHALL BE RESPONSIBLE FOR THE POT HOLE AND LOCATING OF ALL EXISTING UTILITIES THAT CROSS THE PROPOSED TRENCH LINE AND MUST MAINTAIN 1" MINIMUM VERTICAL CLEARANCE.
12. AS-BUILT DRAWINGS MUST BE SUBMITTED TO THE CITY ENGINEER PRIOR TO ACCEPTANCE OF THIS PROJECT.



CONSTRUCTION CHANGE TABLE		
CHANGE	DATE	EFFECTED OR ADDED SHEET NUMBERS

APPLICABLE CODES
ALL WORK SHALL COMPLY WITH THE FOLLOWING APPLICABLE CODES:
*2010 CALIFORNIA BUILDING CODE *2010 CALIFORNIA MECHANICAL CODE *2010 CALIFORNIA PLUMBING CODE *2010 CALIFORNIA ELECTRICAL CODE
IN THE EVENT OF CONFLICT, THE MOST RESTRICTIVE CODE SHALL PREVAIL

PROJECT DESCRIPTION
PROJECT CONSISTS OF INSTALLATION OF:
1. (2) OMNI ANTENNAS ON EXISTING UTILITY POLE
2. EQUIPMENT PEDESTAL W/ BBU, AND ELECTRICAL METER AT BASE OF POLE
3. PROPOSED SHROUD W/ ION ON EXISTING UTILITY POLE

SHEET INDEX:	
TITLE SHEET	T-1 - SHEET 1 OF 6
SITE PLAN	A-1 - SHEET 2 OF 6
PROPOSED ELEVATIONS	A-2 - SHEET 3 OF 6
DETAILS	D-1 - SHEET 4 OF 6
DETAILS	D-2 - SHEET 5 OF 6
DETAILS	D-3 - SHEET 6 OF 6

CROWN CASTLE NG WEST, LLC

VERIZON MONTECITO-MON19m1

R.O.W. SOUTH SIDE OF ROMERO CANYON RD.

(ACROSS FROM 969 ROMERO CANYON RD)

SANTA BARBARA, CA 93108



VICINITY MAP - N.T.S.

GROUND BUS BAR	LIGHT POLE	ELEVATION REF.	ELECT. CONDUIT
MECH. GRND. CONN.	FOUNDATION	SECTION REF.	COAXIAL CABLE
CADWELD	SPOT ELEV.	PROP./LEASE LINE	MYERS PEDESTAL
ELECTRIC BOX	SET POINT	MATCH LINE	VAULT STANDARD 2'X3'
TELEPHONE BOX	REVISION	WORK POINT	STEEL POLE
EXISTING SERVICE POLE	DETAIL REF.	TELE. CONDUIT	
SIDEWALK FLAG		CENTERLINE	
EX. MANHOLE			

SYMBOLS, LINETYPES AND HATCH PATTERNS

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 LOCAL JURISDICTION "LAND DEVELOPMENT MANUAL, STORM WATER STANDARDS" MUST BE INCORPORATED INTO THE DESIGN AND CONSTRUCTION OF THE PROPOSED GRADING/IMPROVEMENTS CONSISTENT WITH THE APPROVED STORM WATER AND/OR WATER POLLUTION CONTROL PLAN (WPCP).
2. FOR STORM DRAIN INLETS, PROVIDE A GRAVEL BAG SILT BASIN IMMEDIATELY UPSTREAM OF INLET AS INDICATED ON DETAILS.
3. FOR INLETS LOCATED AT SUMPS ADJACENT TO TOP OF SLOPES, THE CONTRACTOR SHALL ENSURE THAT WATER DRAINING TO THE SUMP IS DIRECTED INTO THE INLET AND THAT A MINIMUM OF 1.00" FREEBOARD EXISTS AND IS MAINTAINED ABOVE THE TOP OF THE INLET. IF FREEBOARD IS NOT PROVIDED BY GRADING SHOWN ON THESE PLANS, THE CONTRACTOR SHALL PROVIDE IT VIA TEMPORARY MEASURES, I.E. GRAVEL BAGS OR DIKES.
4. 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.
5. THE CONTRACTOR OR QUALIFIED PERSON SHALL CHECK AND MAINTAIN ALL LINED AND UNLINED DITCHES AFTER EACH RAINFALL.
6. THE CONTRACTOR SHALL REMOVE SILT AND DEBRIS AFTER EACH MAJOR RAINFALL.
7. EQUIPMENT AND WORKERS FOR EMERGENCY WORK SHALL BE MADE AVAILABLE AT ALL TIMES DURING THE RAINY SEASON, ALL NECESSARY MATERIALS SHALL BE STOCKPILED ON SITE AT CONVENIENT LOCATIONS TO FACILITATE RAPID CONSTRUCTION OF TEMPORARY DEVICES WHEN RAIN IS IMMINENT.
8. THE CONTRACTOR SHALL RESTORE ALL EROSION/SEDIMENT CONTROL MEASURES TO WORKING ORDER TO THE SATISFACTION OF THE CITY ENGINEER OR RESIDENT ENGINEER AFTER EACH RUN-OFF PRODUCING RAINFALL.
9. THE CONTRACTOR SHALL INSTALL ADDITIONAL EROSION CONTROL MEASURES AS MAY BE REQUIRED BY THE RESIDENT ENGINEER DUE TO UNCOMPLETED GRADING OPERATIONS OR UNFORESEEN CIRCUMSTANCES, WHICH MAY ARISE.
10. THE CONTRACTOR SHALL BE RESPONSIBLE AND SHALL TAKE NECESSARY PRECAUTIONS TO PREVENT PUBLIC TRESPASS ONTO AREAS WHERE IMPOUNDED WATERS CREATE A HAZARDOUS CONDITION.
11. ALL EROSION/SEDIMENT CONTROL MEASURES PROVIDED PER THE APPROVED GRADING PLAN SHALL BE INCORPORATED HEREON. ALL EROSION/SEDIMENT CONTROL FOR INTERIM CONDITIONS SHALL BE DONE TO THE SATISFACTION OF THE RESIDENT ENGINEER.
12. GRADED AREAS AROUND THE PROJECT PERIMETER MUST DRAIN AWAY FROM THE FACE OF THE SLOPE AT THE CONCLUSION OF EACH WORKING DAY.
13. ALL REMOVABLE PROTECTIVE DEVICES SHOWN SHALL BE IN PLACE AT THE END OF EACH WORKING DAY WHEN RAIN IS IMMINENT.
14. THE CONTRACTOR SHALL ONLY GRADE, INCLUDING CLEARING AND GRUBBING FOR THE AREAS FOR WHICH THE CONTRACTOR OR QUALIFIED PERSON CAN PROVIDE EROSION/SEDIMENT CONTROL MEASURES.
15. 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 AND THE RESIDENT ENGINEER) TO EVALUATE THE ADEQUACY OF THE EROSION/SEDIMENT CONTROL MEASURES AND OTHER RELATED CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES

THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN (11" X 17") FOR APPROVAL PRIOR TO STARTING WORK. THE PLAN SHOULD BE SUBMITTED TO THE TRAFFIC CONTROL PERMIT COUNTER. CONTRACTOR SHALL OBTAIN A TRAFFIC CONTROL PERMIT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO STARTING WORK, AND A MINIMUM FIVE (5) DAYS IF WORK WILL AFFECT A BUS STOP OR AN EXISTING TRAFFIC SIGNAL, OR IF WORK WILL REQUIRE A ROAD OR ALLEY CLOSURE.

FOOTAGE TOTALS	
ASPHALT CUT	-
DIRT TRENCH	-
PUNCH THRU	-
BORE	-
TOTAL	-
R&R SWF TOTAL	-

PROJECT DICTIONARY

SITE ADDRESS: R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ACROSS FROM 969 ROMERO CANYON RD) SANTA BARBARA, CA 93108

APPLICANT: CROWN CASTLE NG WEST, LLC
2125 WRIGHT AVE, SUITE #C9
LA VERNE, CA 91750
CONTACT: HEIDI PAYNE
PHONE: (949) 300-9493

CIVIL ENGINEER: CONNELL DESIGN GROUP, LLC
26455 RANCHO PARKWAY SOUTH
LAKE FOREST, CA 92630
CONTACT: FRANK CARTER
(949) 310-8233 PHONE
(949) 753-8833 FAX

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

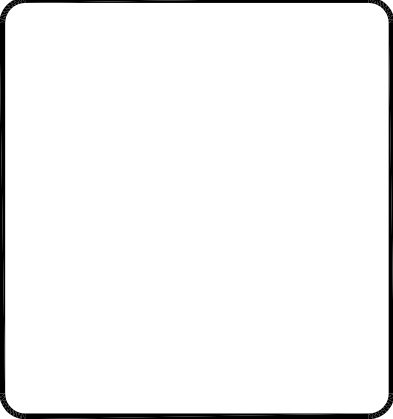
Civil Engineer



CLIENT:



STAMP:



SITE INFO:

SITE NAME: MON19m1
VERIZON MONTECITO-MON19m1

SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ACROSS FROM 969 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.443777
LONG: -119.592570

SHEET TITLE:

TITLE SHEET

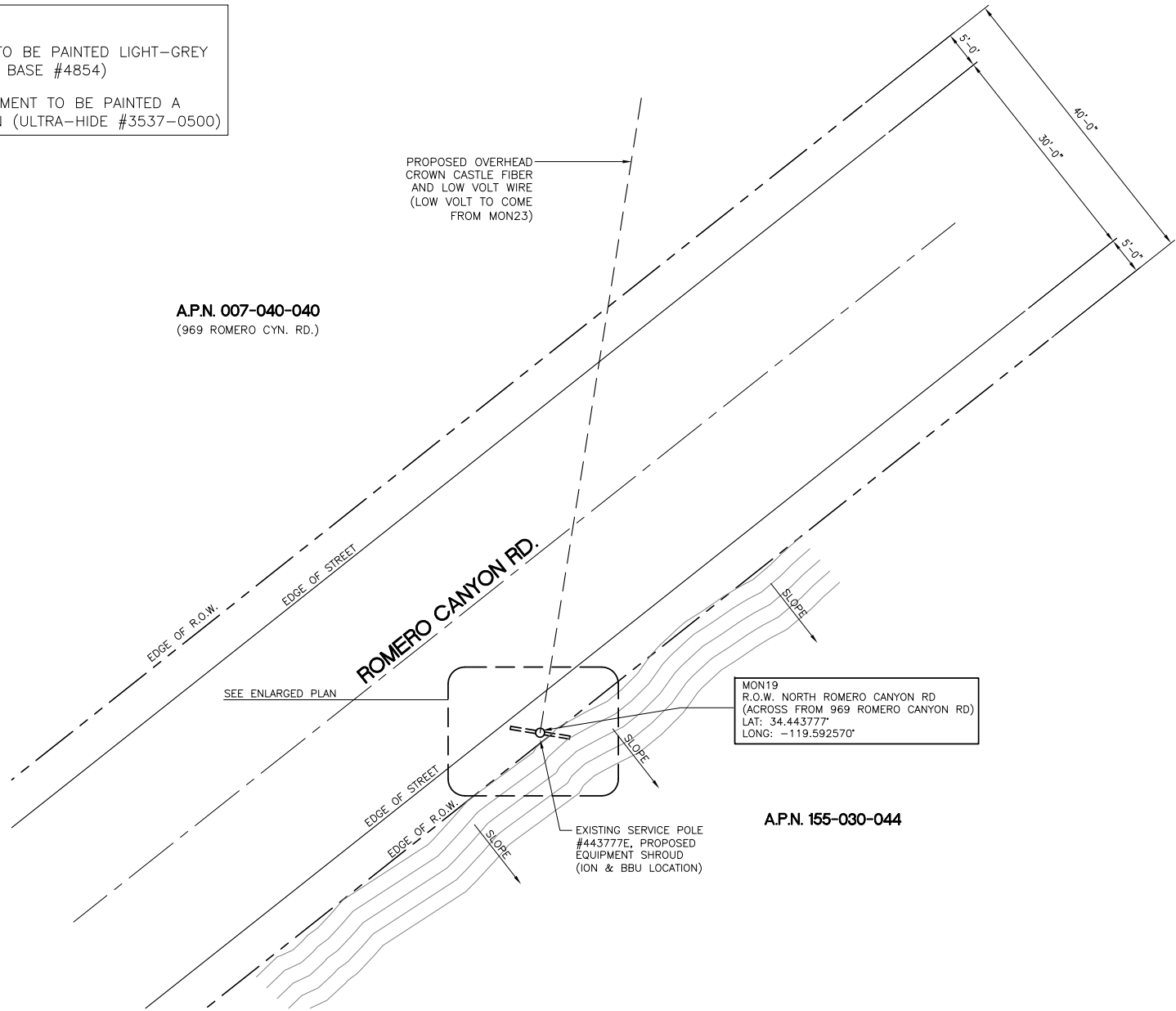
DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

T-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



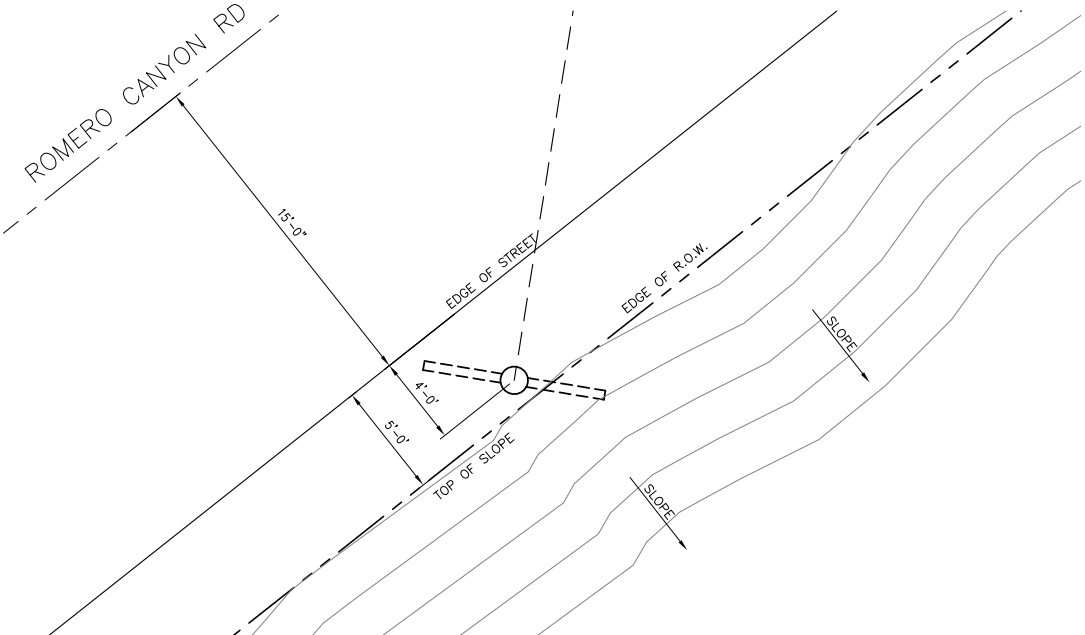
STAMP:

SITE PLAN

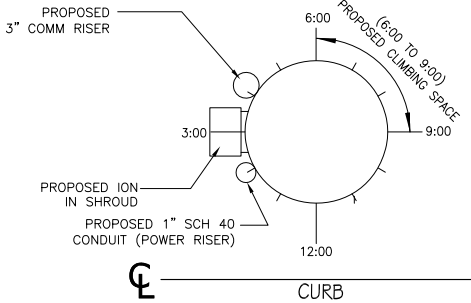
SCALE: 1"=10'-0" 0 5 10' 1

EXISTING PHOTO

SCALE: N.T.S. 3



POLE WILL BE STEPPED IN ACCORDANCE TO G095 STANDARDS IN RESPECT TO CLIMBING SPACE.
1-3" CROWN CASTLE RISER @ 4:00
1-1" POWER RISER @ 2:00



ENLARGED SITE PLAN

SCALE: 1/4"=1'-0" 0 2' 4' 2

RISER PROFILE

SCALE: N.T.S. 4

SITE INFO:

SITE NAME: MON19m1
VERIZON MONTECITO-MON19m1
SITE ADDRESS: THOMAS BROS PAGE 987 GRID E7
R.O.W. SOUTH SIDE OF ROMERO CANYON RD.
(ACROSS FROM 969 ROMERO CANYON RD)
SANTA BARBARA, CA 93108
LAT: 34.443777
LONG: -119.592570

SHEET TITLE:

SITE PLAN, ENLARGED SITE PLAN, EXISTING PHOTO AND RISER PROFILE

DRAWING INFO:

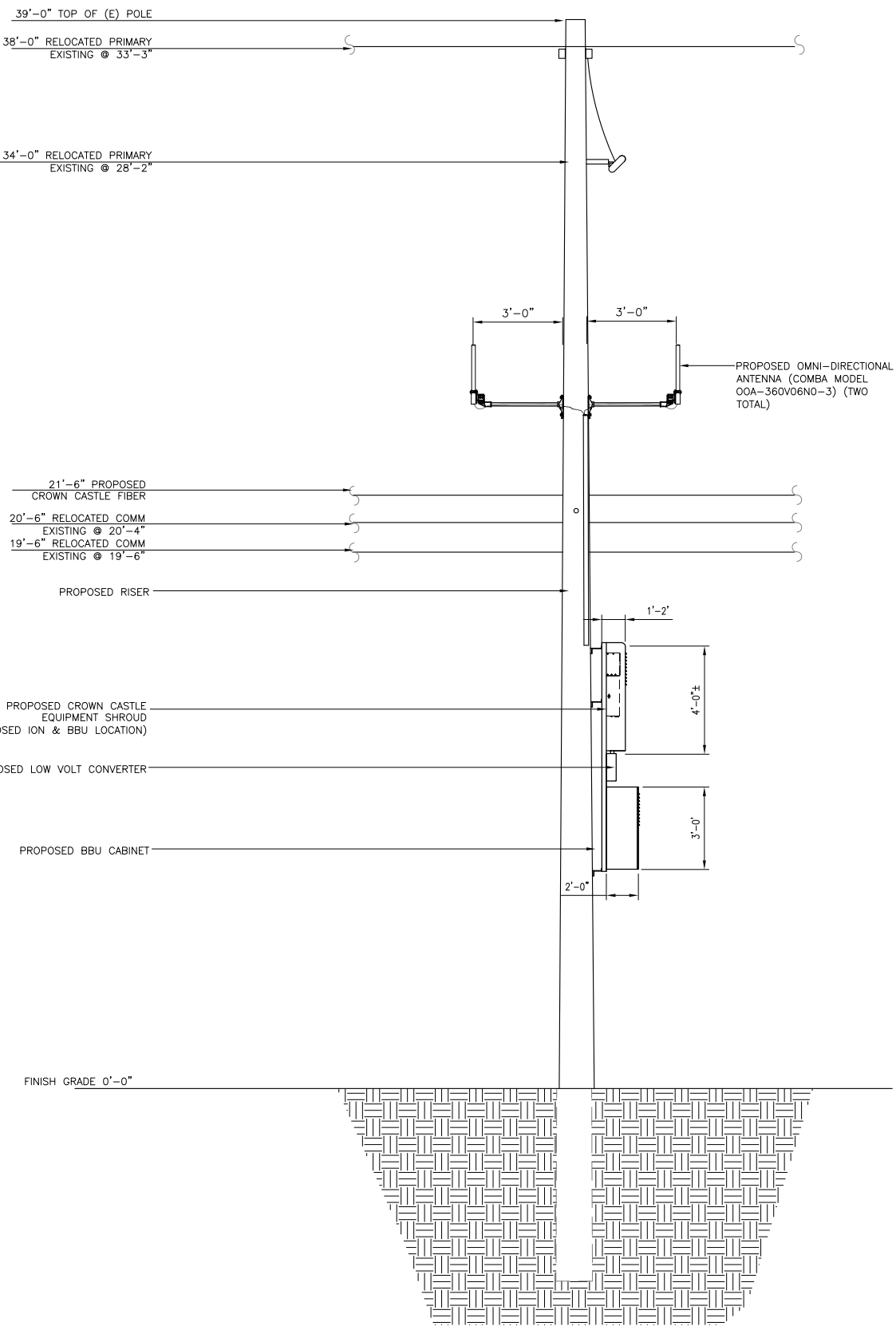
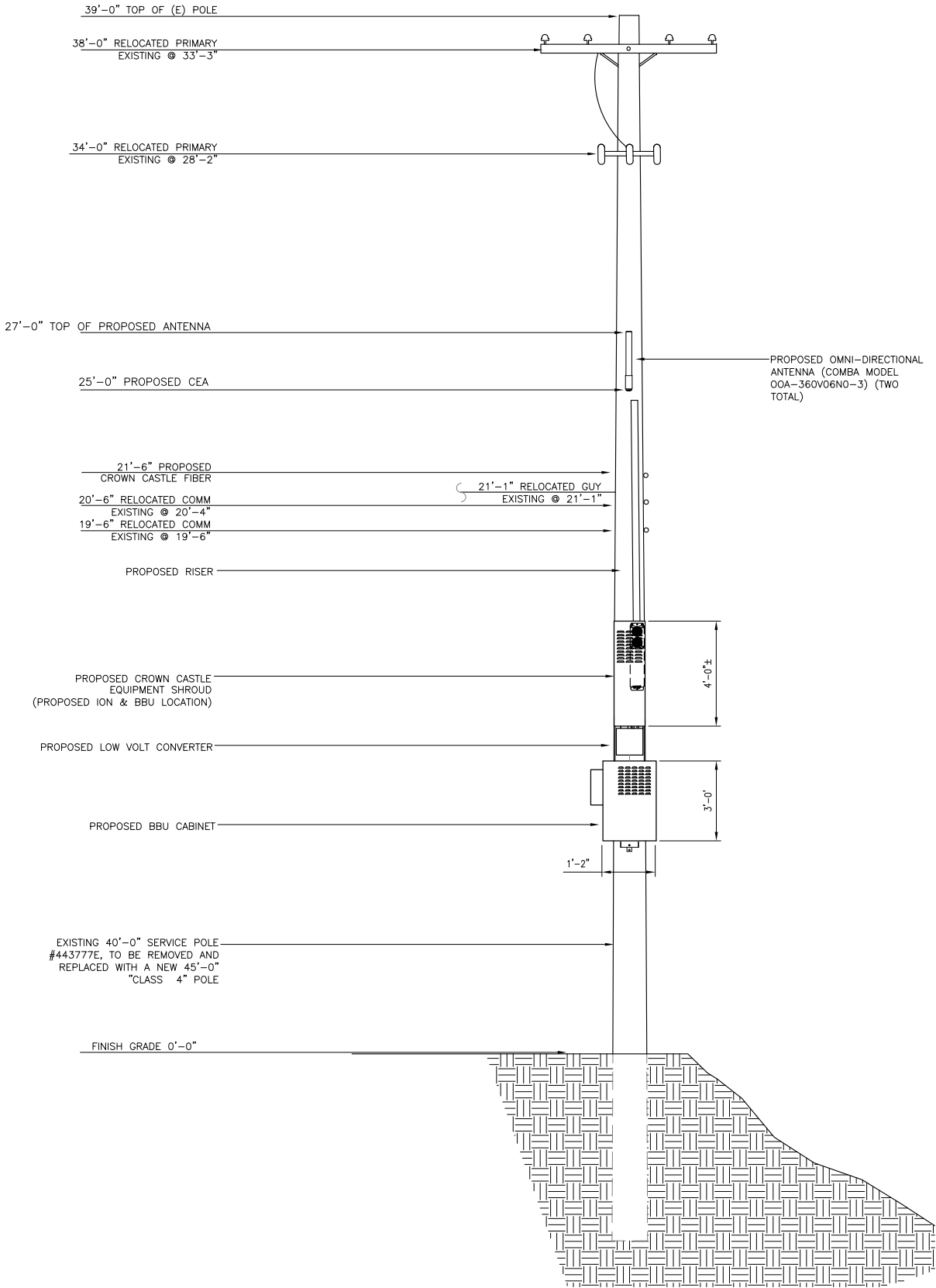
DRAWN BY: FC

SHEET NUMBER:

A-1

NOTE:
1. ANTENNA TO BE PAINTED LIGHT-GREY (BEHR ULTRA BASE #4854)
2. ALL EQUIPMENT TO BE PAINTED A MATTE BROWN (ULTRA-HIDE #3537-0500)

SCE TO REPLACE EXISTING 40'-0" POLE
W/ A NEW "CLASS 4" 45'-0" POLE



REV.	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CLIENT:



STAMP:

SITE NAME:	MON19m1
SITE ADDRESS:	VERIZON MONTECITO-MON19m1
SITE ADDRESS:	THOMAS BROS PAGE 987 GRID E7 R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ACROSS FROM 969 ROMERO CANYON RD) SANTA BARBARA, CA 93108 LAT: 34.443777 LONG: -119.592570

SHEET TITLE:

ELEVATION

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

A-3

Outdoor Omni-directional Antenna

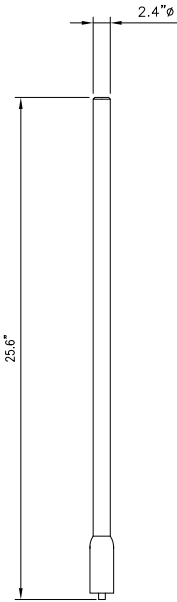
COMBA

OOA-360V06N0-3 VPoI, 696-960/1710-2170MHz, 360°, 4.0/6.0dBi

Technical Specifications

Electrical				
Frequency Range	MHz	696-960	1710-2170	
Polarization		Vertical		
Gain	dBi	4.0±1	6.0±1	
Horizontal Beamwidth	deg	360		
Vertical Beamwidth	deg	22-53	20-26	
Electrical Downtilt-Fixed	deg	0		
VSWR		1.8		
Maximum Power	W	200		
Impedance		50		
Lightning Protection		Direct Ground		

Mechanical				
Dimensions, HxDia	mm(in)	650x60 (25.6x2.4)		
Weight, with Mounting kit	kg (lb)	1 (2.2)		
Radome Material and Color		Fiberglass, Light Grey		
Radiating Element Material		Copper		
Connector Type and Location		N-Female, Bottom		
Operational Temperature		-55 to +70		
Operational Humidity	%	95		
Operational Wind Speed	km/h (mph)	200 (124)		
Shipping Dimensions,HxWxD	mm (in)	670x100x100 (26.4x3.9x3.9)		
Shipping Weight	kg (lb)	1.2 (2.65)		



ANTENNA SPECIFICATIONS

N.T.S. 1

Electrical

Power Supply	115 or 230
Mains power, Vac	
Power consumption, Watts	1100 max. < 750 @ normal operation

700 MHz SISO/MIMO

Frequency range, MHz	Uplink 698 to 716/776 to 787 Downlink 728 to 757
----------------------	---

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
LTE	43	40**	37	34

850 MHz

Frequency range, MHz	Uplink 824 to 849 Downlink 869 to 894
----------------------	--

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
Analog	43	40	37	34
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



20W for Cell,
PCS bands and
700MHz MIMO

1900 MHz

Frequency range, MHz	Uplink 1850 to 1915 Downlink 1930 to 1995
----------------------	--

Output power per carrier*, dBm

Number of Carriers	1	2	4	8
GSM	43	40	37	34
CDMA	43	40	37	34
LTE	43	40**	37	34
UMTS	42	39	36	33



ION-M7P/7P/85P/19P

Noise figure, dB	ICP3 optimized +10 max. Noise figure optimized +6 max. 4.5 typical
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Mechanical***

Height, width, depth, mm (in)	817 x 245 x 218 (32.2 x 9.6 x 8.6)
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Weight, kg (lb)	40 (88.2)
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AlphaCell
General Specifications



Model:	220 GXL	195 GXL	165 GXL
Warranty ¹ :	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended	4 to 5 year full replacement Extended
Service Life:	220	195	165
Runtime (minutes) ² :	Valve regulated lead acid	Valve regulated lead acid	Valve regulated lead acid
Sealed VRLA:	Extreme	Extreme	Extreme
Heat Resistant:	Low	Low	Low
Hydrogen Emission:	Threaded insert	Threaded insert	Threaded insert
Terminals:	1/4" - 20 UNC	1/4" - 20 UNC	1/4" - 20 UNC

Specifications⁴

Model:	220 GXL	195 GXL	165 GXL
Typical Runtime (minutes) ² :	220	195	165
Cells Per Unit:	6	6	6
Voltage Per Unit:	12.8	12.8	12.8
Conductance Value:	1175	1100	1000
Max. Discharge Current (A):	900	900	800
Short Circuit Current (A):	2800	2600	2500
10 Second Volts @ 100A:	11.4	11.3	11.2
Ohms Impedance 60Hz:	0.0050	0.0050	0.0055
Nominal Capacity at 20hrs: (to 1.75VPC)	109Ah	100Ah	86
Nominal Capacity at 20hrs: (to 1.70VPC)	110Ah	102Ah	87
BCI Group Size:	31	31	27
Weight (lb/kg):	73/33.2	63/28.6	53/24.0
Height w/ Terminals (in/mm):	8.48/215.4	8.48/215.4	8.05/204.5
Width (in/mm) ³ :	13.42/340.9	13.42/340.9	12.6/317.8
Depth (in/mm) ³ :	6.80/172.7	6.80/172.7	6.83/173.4
Operating Temperature Range			
Discharge:	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)	-40 to 71°C (-40 to 160°F)
Charge (with temp compensation):	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)	-23 to 60°C (-9.4 to 140°F)
Floater Charging Voltage (Vdc):	13.5 to 13.8	13.5 to 13.8	13.5 to 13.8
AC Ripple Charger:	0.5% RMS or 1.5% of floater charge voltage recommended for best results. Max. allowed = 4% P-P		

- Notes:
¹ Warranty varies by country and region. Warranty valid only when used with Alpha approved Power Supplies, Chargers and Enclosures. Consult your sales person for details.
² Runtimes calculated using a 25A DC constant current load.
³ Dimensions at top of battery.
⁴ See AlphaCell Users Guide for Additional Details.

Typical Standby Time in Minutes @ 25°C/77°F

XM290Vac@	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries	508	453	396	508	453	396	508	453	396	508	453	396	508	453
4 batteries	701	625	546	701	625	546	701	625	546	701	625	546	701	625
6 batteries	1091	978	853	1091	978	853	1091	978	853	1091	978	853	1091	978
8 batteries	1487	1338	1165	1487	1338	1165	1487	1338	1165	1487	1338	1165	1487	1338
9 batteries	1688	1509	1322	1688	1509	1322	1688	1509	1322	1688	1509	1322	1688	1509

XM290Vac@	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries	149	132	115	149	132	115	149	132	115	149	132	115	149	132
4 batteries	210	187	163	210	187	163	210	187	163	210	187	163	210	187
6 batteries	339	301	264	339	301	264	339	301	264	339	301	264	339	301
8 batteries	478	419	367	478	419	367	478	419	367	478	419	367	478	419
9 batteries	538	479	419	538	479	419	538	479	419	538	479	419	538	479

XM200Vac@	4A	6A	8A	10A	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries	798	712	622	798	712	622	798	712	622	798	712	622	798	712
4 batteries	1091	978	853	1091	978	853	1091	978	853	1091	978	853	1091	978
6 batteries	1688	1509	1322	1688	1509	1322	1688	1509	1322	1688	1509	1322	1688	1509
8 batteries	2298	2067	1798	2298	2067	1798	2298	2067	1798	2298	2067	1798	2298	2067
9 batteries	2500	2245	2037	2500	2245	2037	2500	2245	2037	2500	2245	2037	2500	2245

XM260Vac@	12A	14A	16A	18A	20A	22A	24A	26A	28A	30A	32A	34A	36A	38A
Battery Runtime	220	195	165	220	195	165	220	195	165	220	195	165	220	195
3 batteries	242	215	188	242	215	188	242	215	188	242	215	188	242	215
4 batteries	339	301	264	339	301	264	339	301	264	339	301	264	339	301
6 batteries	538	479	419	538	479	419	538	479	419	538	479	419	538	479
8 batteries	741	660	577	741	660	577	741	660	577	741	660	577	741	660
9 batteries	843	753	658	843	753	658	843	753	658	843	753	658	843	753

*Above calculations based on an AC load with a .90 cable plant power factor.
For contact information visit www.alpha.com

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Fax: +1 604 430 8908		Fax: +357 52 399 595	Fax: +49 9122 79889 21	Fax: +370 5 210 5292	Fax: +852 2199 7088
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Fax: +1 360 671 4936		Fax: +7 495 916 1349	Fax: +44 1279 659870		

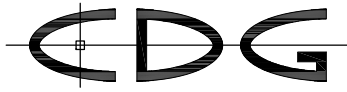
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049-297-10-8002 (06/09)

REV:	DATE/BY:	REVISION DESCRIPTION:
0	FXC 02/10/2014	ISSUED FOR REVIEW
1	FXC 03/08/2014	ISSUED FOR FINAL

ENGINEER/CONSULTANT:

Civil Engineer



CONNELL DESIGN GROUP, LLC

CONSULTING CIVIL ENGINEERS
26455 RANCHO PARKWAY SOUTH, LAKE FOREST, CA 92630
(949) 753-8807 OFFICE - (949) 753-8833 FAX

CLIENT:



STAMP:

SITE INFO:

SITE NAME:	MON19m1
	VERIZON MONTECITO-MON19m1
SITE ADDRESS:	THOMAS BROS PAGE 987 GRID E7 R.O.W. SOUTH SIDE OF ROMERO CANYON RD. (ACROSS FROM 969 ROMERO CANYON RD) SANTA BARBARA, CA 93108
	LAT: 34.443777 LONG: -119.592570

SHEET TITLE:

DETAILS

DRAWING INFO:

DRAWN BY:
FC

SHEET NUMBER:

D-1