



CITY:
 COUNTY:
 JURISDICTION:
 SITE NUMBER/ID:
 SITE TYPE:

(N) 26.3' A.G.L. CONCRETE POLE
 SOLAR POWER, EMBEDDED

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
1	05/25/15	ADONIS V. JAVIER	A.J.

PROPRIETARY INFORMATION:
 THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE GAS COMPANY IS STRICTLY PROHIBITED.



ADVANCED METER
 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:
 26.3' CONCRETE POLE
 SOLAR, EMBEDDED

SHEET TITLE:
 TITLE SHEET

LICENSURE:

VICENTE MANLANGIT, P.E.

DESIGNER: J.M.

CAD DRAFTING: A.J. 05/25/15

CHECKED BY: J.M.

SCALE: AS SHOWN

SHEET NUMBER:	REVISION:
T-1	1

PROJECT SUMMARY:

SITE ADDRESS:
 VARIOUS

APPLICANT:
 SOUTHERN CALIFORNIA GAS CO.
 555 W. 5TH ST., SUITE 3RD., LOS ANGELES, CA 90013
 REPRESENTATIVE: LINDA HOANG
 PHONE: (213) 244-3393

PROPERTY OWNER:

PUBLIC RIGHT OF WAY

LATITUDE: XX.YYYYYYYY

LONGITUDE: -YYY.XXXXXXXX

OCCUPANCY CLASSIFICATION: UTILITY / WIRELESS ANTENNA

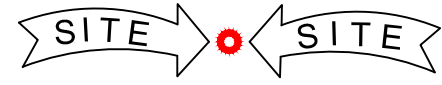
ZONING CLASSIFICATION:

CONSTRUCTION TYPE:

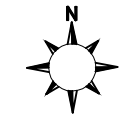
PROJECT DESCRIPTION:
 SOUTHERN CALIFORNIA GAS CO. PROPOSES TO INSTALL ACLARA EQUIPMENT MOUNTED ON A NEW CONCRETE POLE, 26'-4" ABOVE GROUND LEVEL.

SHEET INDEX:

SHEET NO:	DESCRIPTION:
T-1	TITLE SHEET
T-2	GENERAL NOTES
A-1	ELEVATIONS
A-2	EQUIPMENT DETAILS
A-3	MOUNTING DETAILS
A-4	MATERIALS LIST
E-1	ELECTRICAL DIAGRAM



VICINITY MAP
 NOT TO SCALE



CONSULTING TEAM:

<u>SAG/ZONING/PERMITTING:</u>	<u>CONSTRUCTION PROJECT MANAGER</u>
SOUTHERN CALIFORNIA GAS CO. LINDA HOANG 555 W. 5TH ST., 3RD FLOOR LOS ANGELES, CA 90013 (213) 244-3393	SOUTHERN CALIFORNIA GAS CO. ROBERT SHY 555 W. 5TH ST., 3RD FLOOR LOS ANGELES, CA 90013 (213) 364-2195
<u>CONTRACTOR</u>	<u>NETWORK CONSTRUCTION ENGINEER</u>
HENKELS & MCCOY 2840 FICUS STREET POMONA, CA 91766 PHONE: (909) 270-7880 FAX: (909) 548-6664	SOUTHERN CALIFORNIA GAS CO. JUAN MALDONADO 555 W. 5TH ST., 3RD FLOOR LOS ANGELES, CA 90013 (213) 244-2324
<u>CONTACT: DARLENE CASTILLO</u> DATE: 08-14-14	

APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	<u>PUBLIC R.O.W.</u>		
PRECON. MGR			
DEVELOP. MGR			
CONST. MGR			
PROJECT. MGR			
SR. RF ENGINEER			
RF ENGINEER			
OPERATIONS			
SAC REP.			

PERMIT #:

REVISION HISTORY

REVISION A: INITIAL DESIGN.
 REVISION 1: AS BUILT PER REDLINE BY THE CONTRACTOR.

APPLICABLE CODES:

CALIFORNIA ADMINISTRATIVE CODE
 2013 CALIFORNIA BUILDING CODE
 UNIFORM MECHANICAL CODE
 ANSI/EIA-222-F LIFE SAFETY CODE NFPA-101
 2013 UNIFORM PLUMBING CODE
 2013 NATIONAL ELECTRIC CODE
 LOCAL BUILDING CODE
 CITY/COUNTY ORDINANCES

GENERAL NOTES AND CONDITIONS

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
1	05/25/15	ADONIS V. JAVIER	A.J.

INTENT

- THIS CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.
- THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.
- IN CASE OF INCONSISTENCY BETWEEN OTHER PARTS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE OWNER'S INTERPRETATION.
- WHERE DRAWINGS REFER TO STANDARD SPECIFICATIONS, THE LATEST OR MOST RECENT EDITION SHALL APPLY.

CHANGE ORDER PROCEDURE

- CHANGE ORDER MAY BE INITIATED BY THE OWNER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE OWNER SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT TO THE OWNER WITHIN 72 HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

CODE COMPLIANCE

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE BUT NOT BE LIMITED TO THE LATEST VERSION OF THE FOLLOWING:

CALIFORNIA ADMINISTRATIVE CODE
 2013 CALIFORNIA BUILDING CODE
 2013 UNIFORM PLUMBING CODE
 2013 NATIONAL ELECTRIC CODE
 2013 UNIFORM MECHANICAL CODE
 ANSII/EIA-222-F LIFE SAFETY CODE NFPA-101
 LOCAL BUILDING CODE
 CITY AND COUNTY ORDINANCES

ADMINISTRATION

- BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL BE DEVELOPING A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE (3) DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.
- PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, AND LAND OWNER REPRESENTATIVE.
- THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
- DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. THE CONTRACTOR WILL COMPLY WITH ALL SCG SAFETY REQUIREMENTS IN THEIR AGREEMENT.
- PROVIDE WRITTEN DAILY UPDATES AND PHOTOGRAPHS OF ON-SITE PROGRESS TO THE PROJECT MANAGER VIA E-MAIL.
- A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THE OWNER / PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.
- CLOSEOUT PACKAGE IS DUE COMPLETE WITH DETAILED TOP PHOTOS UPON SITE PUNCHWALK WITH PROJECT MANAGER (SEE PROJECT MANAGER FOR SAMPLE CLOSEOUT PACKAGE).

WARRANTIES AND BONDS

- THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
- SEE MASTER CONTRACTOR SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

GENERAL NOTES

- IDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL: ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SOCIAL GAS REPRESENTATIVES AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT (213) 482-7030, AT LEAST TWO WORKING DAYS BEFORE THE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL BOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
- THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF.
- ALL RECONSTRUCTION, RESURFACING, PAVEMENT DELINEATION AND OTHER IMPROVEMENTS ARE TO BE RESTORED TO THE SAME OR IMPROVED CONDITION BASED ON GENERAL NOTE NO. 3 ABOVE.

INSURANCE AND BONDS

- THE CONTRACTOR SHALL AT THEIR OWN EXPENSE CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT ALL INSURANCE AS REQUIRED AND LISTED.
- THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER.
- THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
- REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.

CLEAN UP

- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK. AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY FOR USE.
- VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
- REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
- IF NECESSARY TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

SUBSTANTIAL COMPLETION

- SUBSTANTIAL COMPLETION IS THE STAGE OF WORK IS SUFFICIENTLY COMPLETE IN ACCORDANCE WITH THE CONTRACT SO THE OWNER CAN FULLY UTILIZE THE WORK FOR ITS INTENDED USE. SUCH TIME, CONTRACTOR SHALL SUBMIT TO OWNER A REQUEST FOR FINAL PAYMENT AND FINAL COMPLETION REPORT ITEMIZING AND DETAILED INVENTORY OF WORK TO COMPLETION AND AS-BUILT DOCUMENTS/DRAWINGS.
- OWNER WILL ONLY RELEASE FINAL PAYMENT UPON SATISFACTORY REVIEW AND CONTRACTOR COMPLIANCE OF THE FINAL PAYMENT REQUIREMENTS.

CONFLICTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
- NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

STRUCTURAL NOTES

- DESIGN CRITERIA:
 2013 CALIFORNIA BUILDING CODE.
 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS
 OTHER STRUCTURES.
 INTERNATIONAL BUILDING CODE (IBC) 2012
 TIA-222 G STANDARD.
 2009 AASHTO LTS - 5TH EDITION.
 G.O.95
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSUAL OR UNFORESEEN CONDITION PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE DISCREPANCY BETWEEN THE DRAWINGS AND THE CONDITION IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING THE WORK.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330. AGGREGATE ASTM C-33: MAXIMUM SIZE 1 1/2" FOR FOOTINGS AND 1" FOR ALL OTHER WORK.
- ALL REINFORCING BARS, ANCHOR BOLTS, PRESTRESSING TENDONS AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- THE MAXIMUM SLUMP SHALL BE BETWEEN THE RANGE OF 3" TO 5" FOR FOOTINGS, SLABS ON EARTH AND MASS CONCRETE.

STANDARD SYMBOLS

	BUILDING
	BOLLARD
	CABLE TV LINE
	CENTER LINE
	CONCRETE BLOCK WALL
	CURB, GUTTER & SIDEWALK
	DRIVEWAY
	EDGE OF PAVEMENT
	EDGE OF DIRT
	ELECTRIC VAULT
	FENCE
	CHAINLINK FENCE
	FIRE HYDRANT
	GAS LINE
	GAS VALVE
	GATE VALVE
	GUY POLE
	JOINT POLE
	MANHOLE
	OIL LINE
	POWER LINE
	PROPERTY LINE
	PULLBOX
	RAILROAD TRACK
	RETAINING WALL
	RIGHT OF WAY
	SANITARY SEWER
	STORM DRAIN LINE
	STREET LIGHT LINE
	STREET SIGN
	SERVICE PEDESTAL
	TELCO LINE
	WATER LINE
	WATER METER

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 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:

26.3' CONCRETE POLE
 SOLAR, EMBEDDED

SHEET TITLE:

GENERAL
 NOTES &
 SYMBOLS

LICENSURE:

VICENTE MANLANGIT, P.E.

DATE:

DESIGNER: J.M.

CAD DRAFTING: A.J.

05/25/15

CHECKED BY: J.M.

SCALE: AS SHOWN

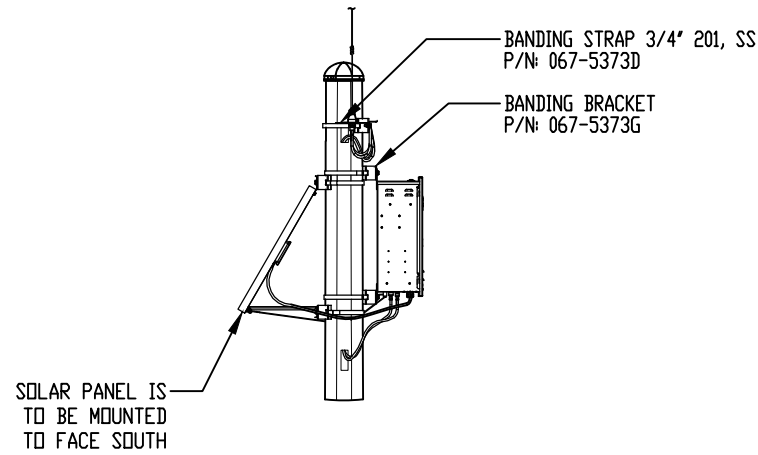
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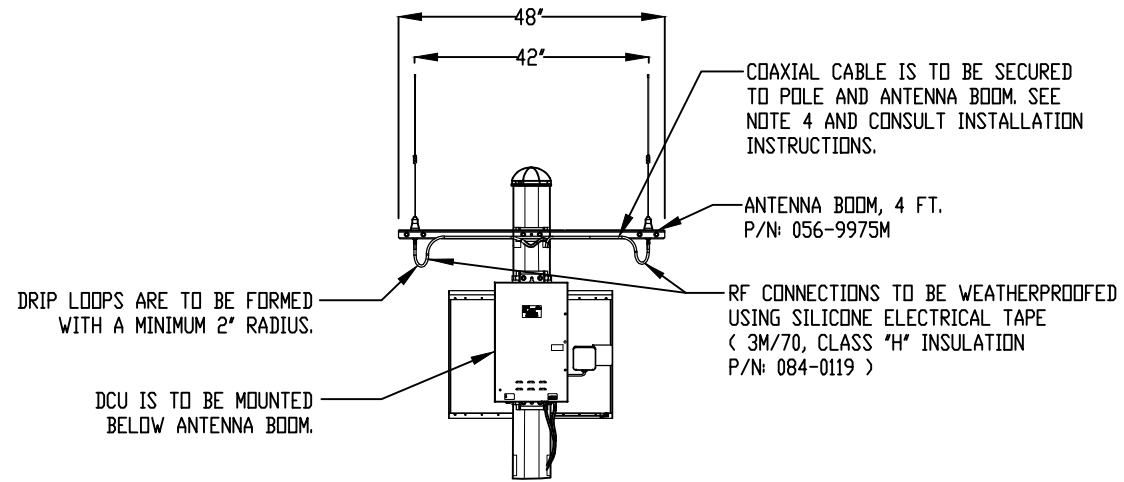
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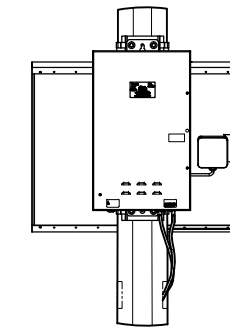
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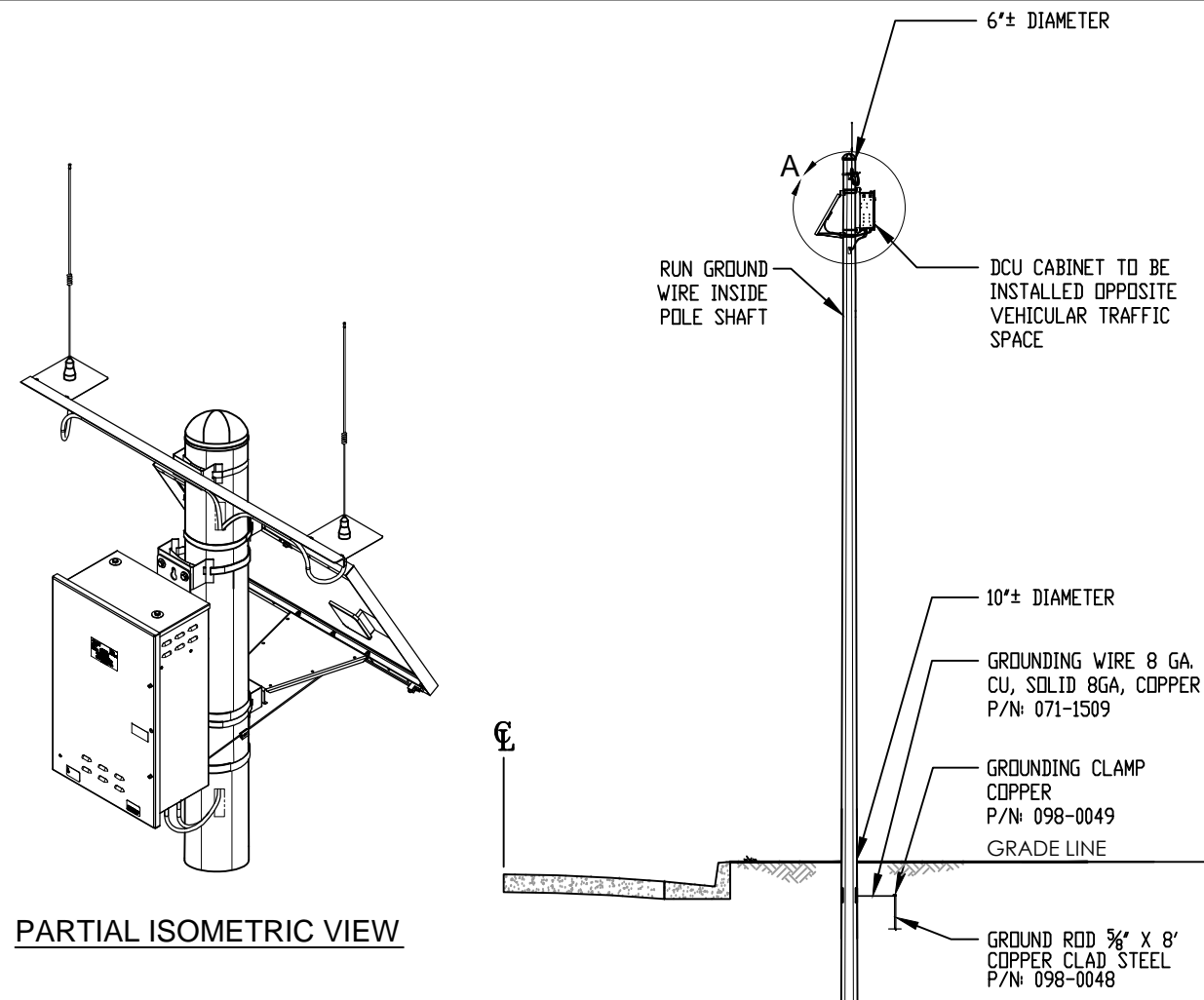
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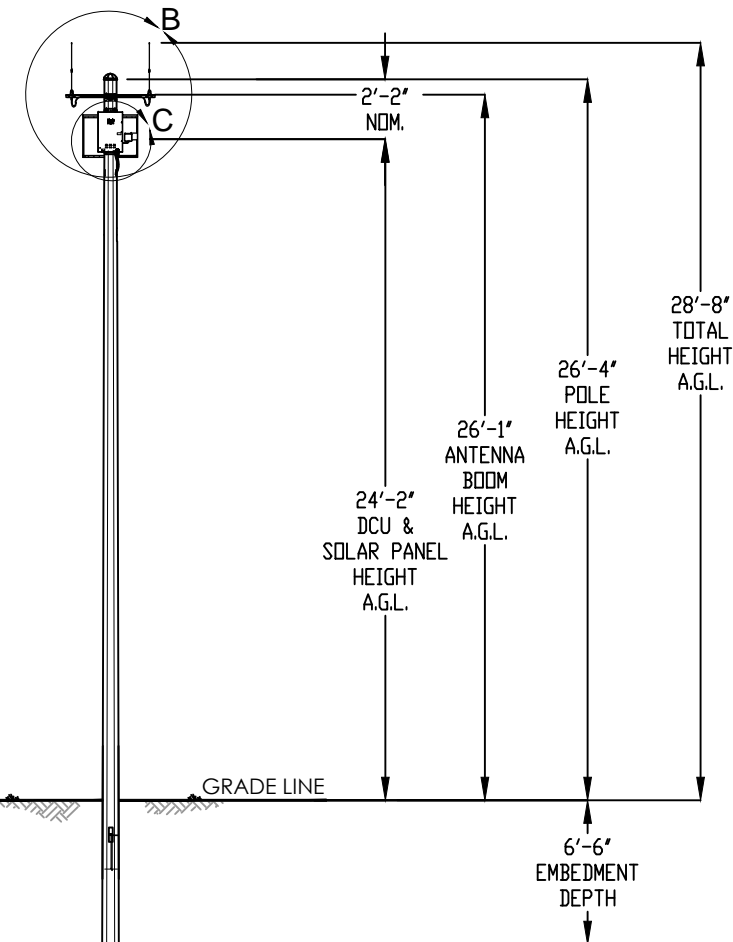
DETAIL B



DETAIL C



PARTIAL ISOMETRIC VIEW



EMBEDMENT NOTES:

- HOLE TO BE EXCAVATED TO DEPTH SPECIFIED IN THE PLANS. DIAMETER OF HOLE SHALL BE EQUAL TO GROUND LINE POLE DIAMETER PLUS (+) 8" AND INSTALLED UPRIGHT INTO LEVEL PAVEMENT. SETBACK FROM CURB AND FINISH GRADE LINE PER JURISDICTION STANDARDS.
- GENERALLY, SELECTED SUITABLE EXCAVATED MATERIAL WILL BE USED AS BACKFILL AND TAMPED/ COMPACTED THOROUGHLY (95%). ALTERNATELY, CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS NON STRUCTURAL BACKFILL CAN BE EMPLOYED (CEMENT CONTENT = 188 POUNDS/ CU. YARD).
- SURFACE SHALL BE RESTORED PER STANDARD SPECIFICATIONS & DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 (GREEN BOOK).
- IF DIFFERING FIELD CONDITION ARISES OR CONSTRUCTION CHANGES, THE CONTRACTOR SHALL CONSULT WITH ENGINEER OF RECORD FOR DESIGN CHANGES/ RETROFIT IF REQUIRED.

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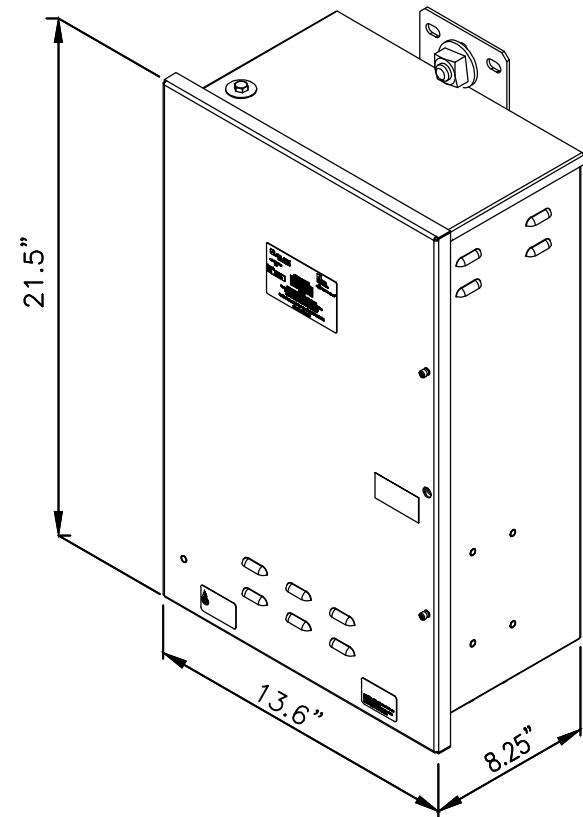
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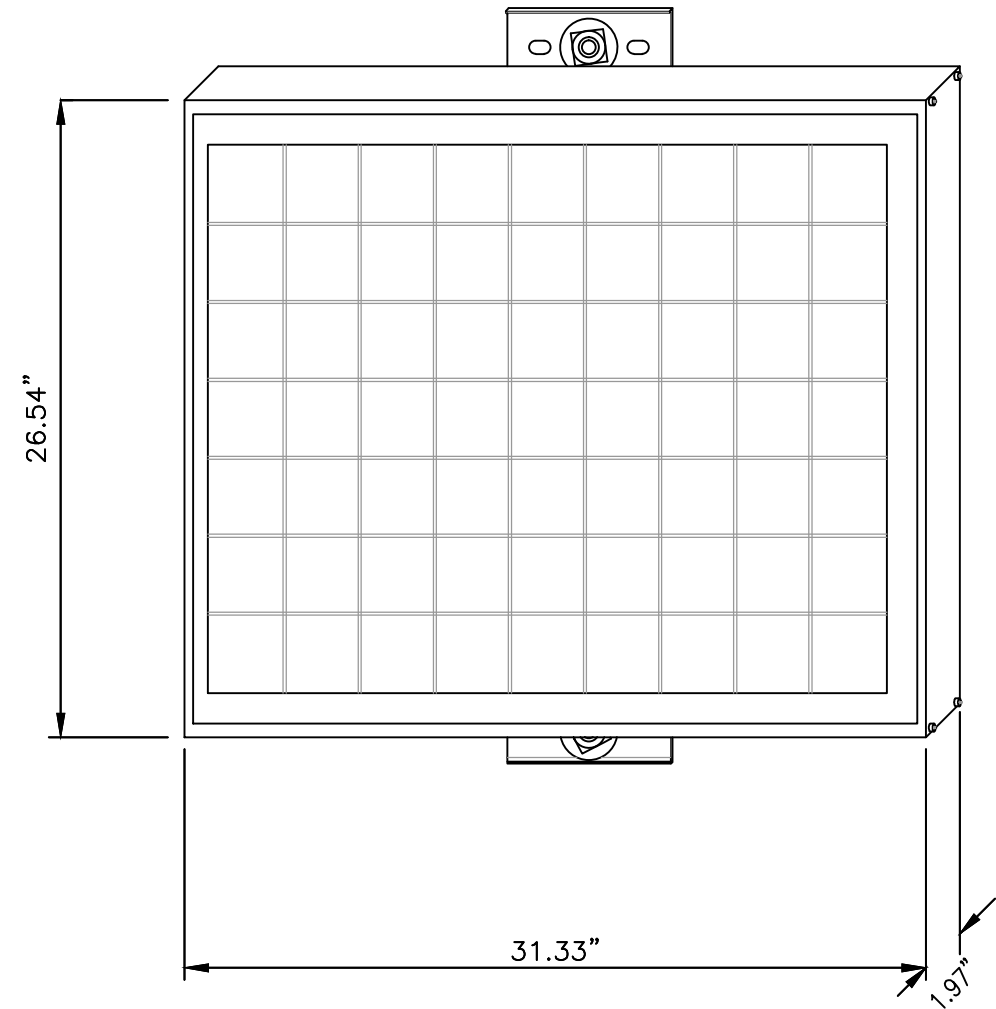
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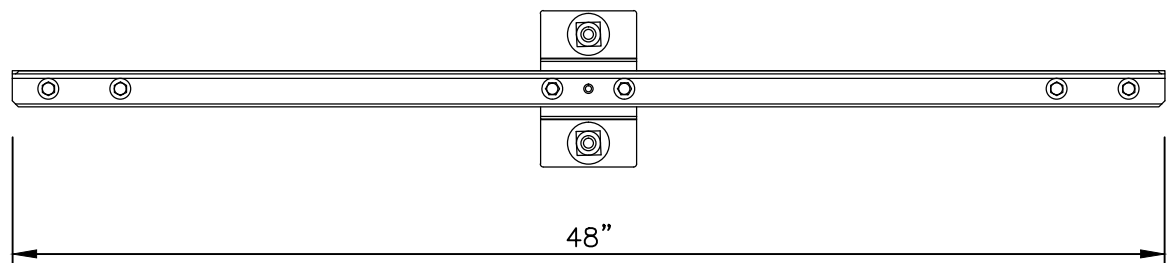
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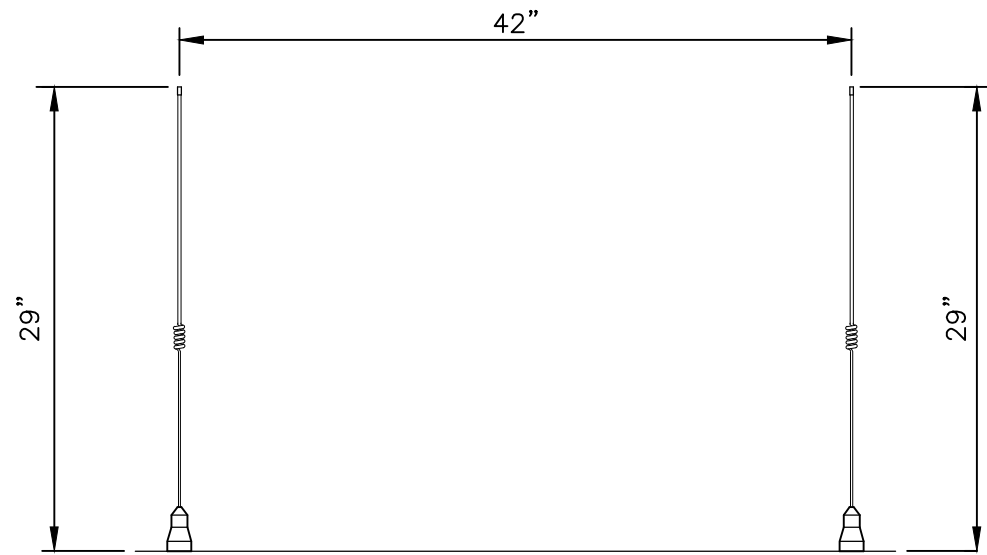
1 (D.C.U.) DATA COLLECTOR UNIT (55 LBS)



2 SOLAR PANEL (14.11 LBS)



3 ALUMINUM ANTENNA ARM



4 455-470 MHz ANTENNAS (WHIP)

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**EQUIPMENT
DETAILS**

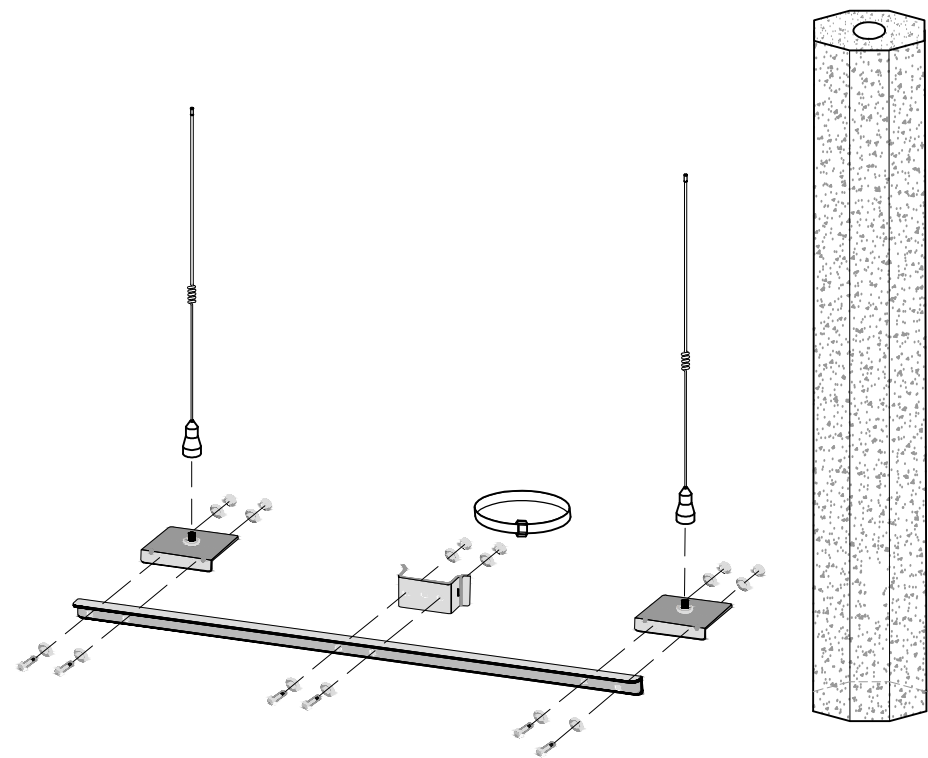
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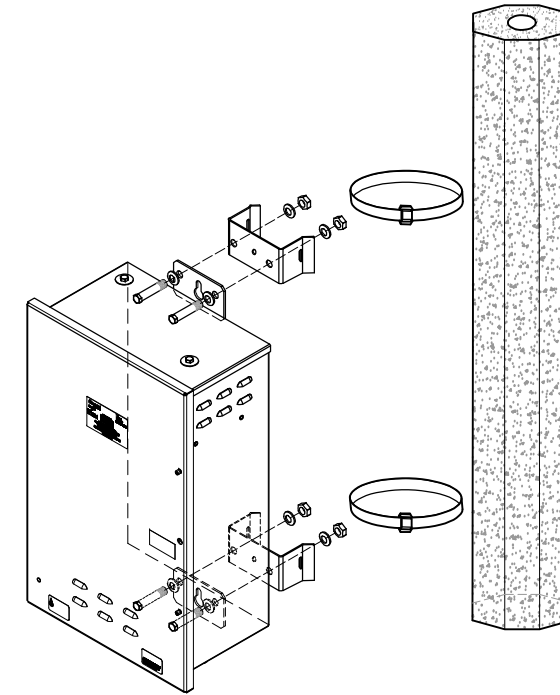
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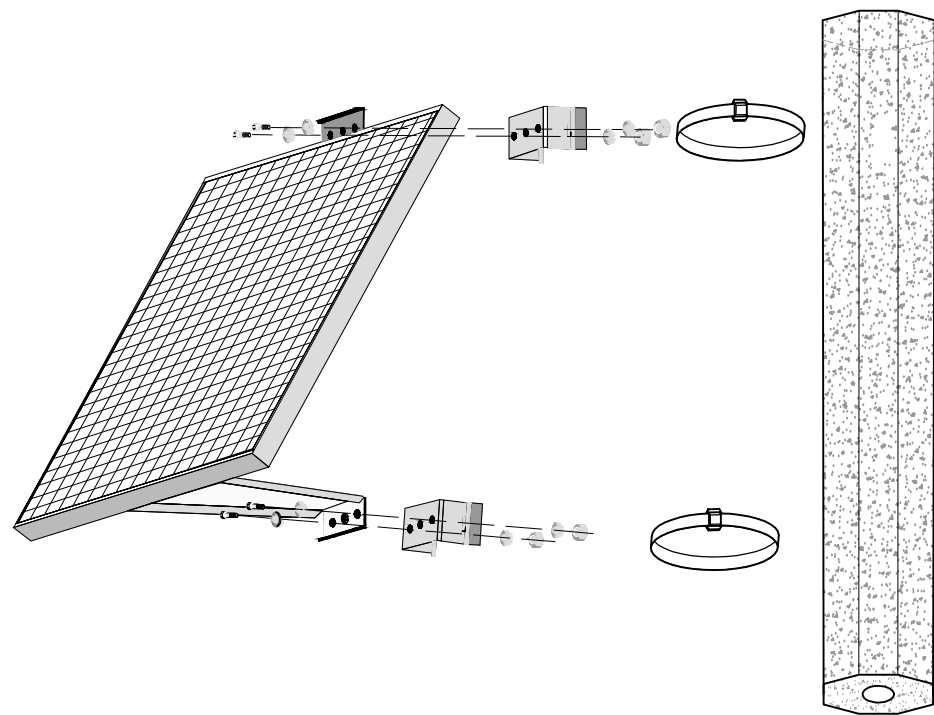
SHEET NUMBER: A-2	REVISION: 1
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5 450 MHz ANTENNA INSTALLATION



6 DATA COLLECTOR UNIT (DCU) INSTALLATION



7 SOLAR PANEL INSTALLATION

FIELD BULLETIN - INSTALLATION INSTRUCTIONS FOR DCU / SOLAR
PANEL / ANTENNAS MOUNTING HARDWARE FOR CONCRETE POLES

1. ENSURE TORQUE VALUE / MEASUREMENTS ARE RECORDED ON THE INSTALLATION QA INSPECTION SHEET AND AS-BUILT MARK-UPS.
2. BAND STRAPS ARE TO BE TIGHTENED TO BAND STRAP TOOL SETTING OF 25, PER BAND-IT TOOL GUIDELINES.
3. ASSIGNED SCG PM OR INSTALLATION CONTRACTOR SHALL TAKE PICTURES OF THE COMPLETED WORK, INCLUDING A PICTURE OF EACH BAND MOUNTING STRAPS.

8 BULLETIN

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DESIGNER: J.M.	DATE:
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CHECKED BY: J.M.	
SCALE: AS SHOWN	

SHEET NUMBER:	REVISION:
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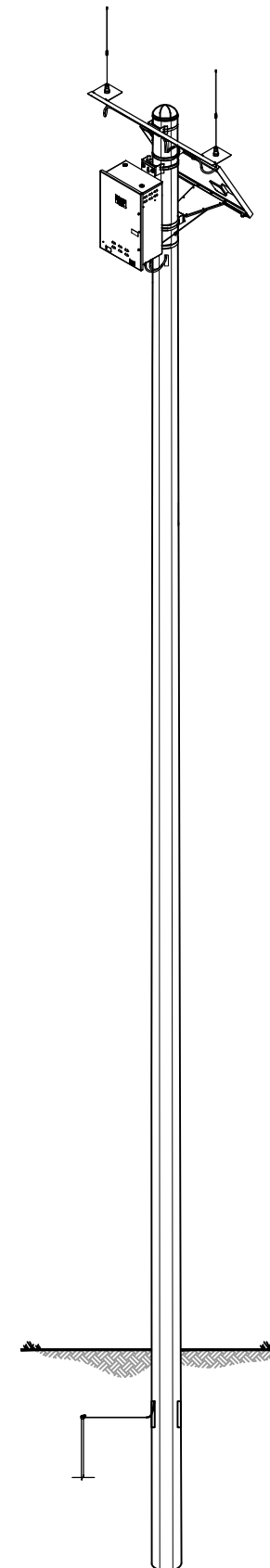
A-3

1

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MATERIALS LIST			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	501-9975VERST1R1-SCG	DCU, CELL, SOLAR PWR, SCG	1
2	042-9975	BATTERY, 26 AMP HOUR, DCU 9975	1
3	109-9975D	UHF ANT BASE ASSY	2
4	EM-M10007	455-470MHz ANT,DCUII	2
5	056-9975M	ANTENNA BOOM, 4 FT	1
6	109-9975F65	65 W SOL PANEL W/ MNTG	1
7	109-10700-02	MTG KIT, METAL/CONCRETE POLE, SOLAR	1
	069-561832LS	5/16-18 X 1", HEX HEAD BOLT,SS	10
	069-3304	5/16 " SPR LW, .32 ID X .59 OD, 18-8 SS	10
	069-3305	$\frac{5}{16}$ F/WASH METAL, SS	10
	069-3306	5/16-18 HEX NUT SS	10
	067-5373D	BANDING CLAMP $\frac{3}{4}$ SS 201, UB256	5
	067-5373G	BANDING BRACKET	5
	067-5373C	BANDING STRAP $\frac{3}{4}$ " 201, SS	5
	070-2570-10	10' LOW LOSS N-M TO N-M	2
*8	098-0048	GROUND ROD, $\frac{5}{8}$ " X 8'	1
*9	098-0049	GROUNDING CLAMP	1
*10	071-1509	GROUNDING WIRE 8 GA, CU, SOLID	1
*11	098-0050	GROUNDING WIRE SPLICE	1
*12	098-0054	CABLE MGMT. BRACKETS (TRAP BOXES)	AS NEEDED
*13	TBD	SNAP-IN CLAMP	AS NEEDED
*14	098-0056	LMT-400 2 HOLE BOOM CLAMP	AS NEEDED
*15	098-0057	LMT-400 4 HOLE BOOM CLAMP	AS NEEDED
*16	084-0119	FUSION TAPE	AS NEEDED
*17	TCP-360	$\frac{1}{2}$ " CABLE SPACERS	2
*18	501-9975-SWKIT-01	DCU DOOR TAMPER SWITCH	1
*CONTRACTOR SUPPLIED MATERIALS			

FOR SMALL ENCLOSURE: 501-9975-SWKIT
 FOR LARGE ENCLOSURE: 501-9975-SWKIT-01



- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
1	05/25/15	ADONIS V. JAVIER	A.J.

PROPRIETARY INFORMATION:
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ADVANCED METER
 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:

 26.3' CONCRETE POLE
 SOLAR, EMBEDDED

SHEET TITLE:

MATERIALS LIST

LICENSURE:

VICENTE MANLANGIT, P.E.

DESIGNER: J.M.
 CAD DRAFTING: A.J. 05/25/15
 CHECKED BY: J.M.

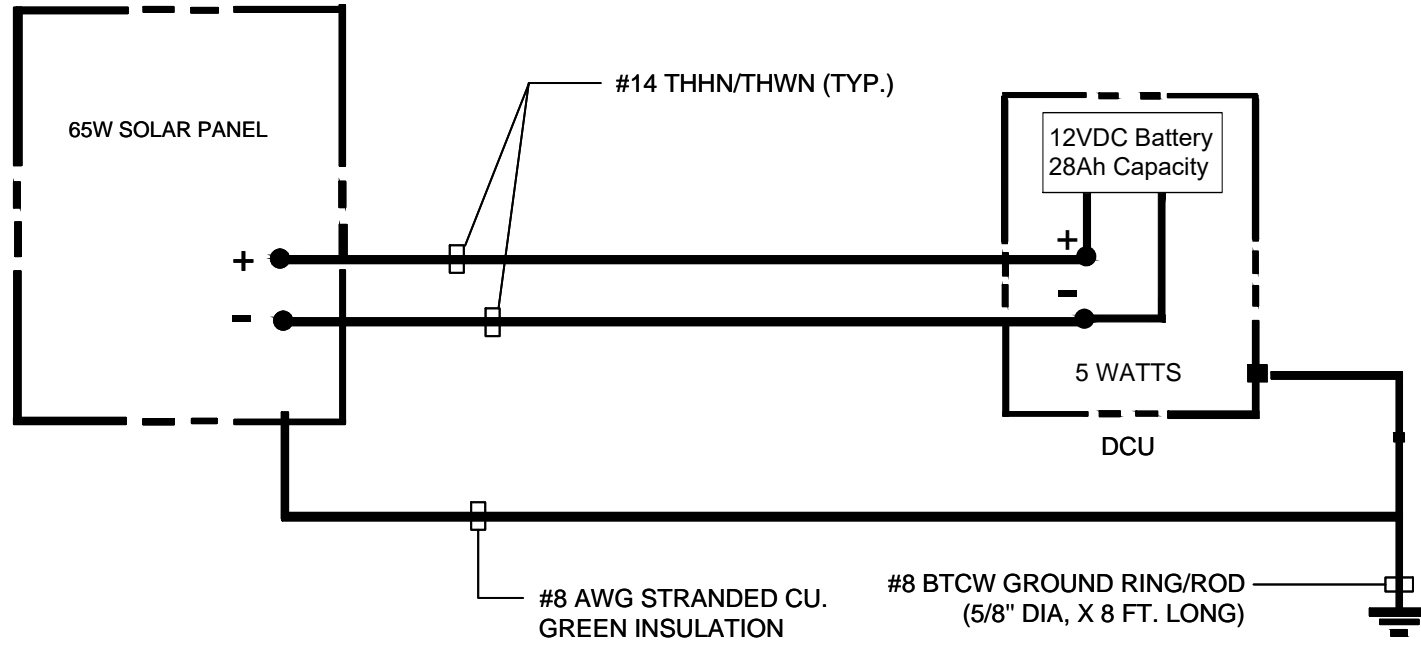
SCALE: AS SHOWN

SHEET NUMBER: A-4	REVISION: 1
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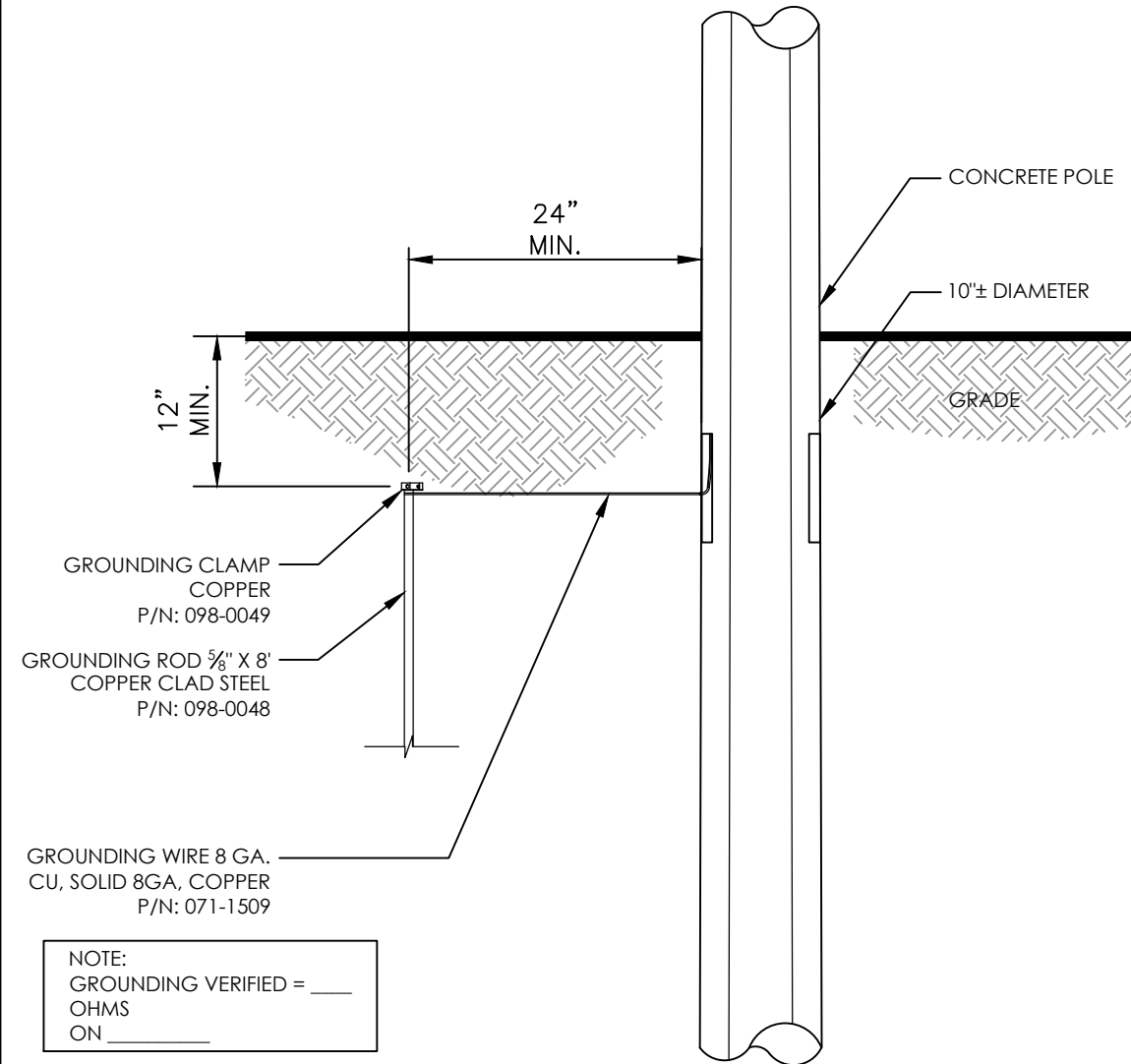
NOTES:

1. LOAD AND VOLTAGE DROP CALCULATIONS MUST BE PERFORMED FOR SPECIFIC SITE DESIGN.
2. AERATE CONDUCTORS AS REQUIRED BY NEC.
3. ALL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
4. ALL CONDUCTORS SHALL BE COPPER AND THHN/THWN RATED INSULATION
5. ALL OUTDOOR INSTALLATION SHALL BE IN AN OUTDOOR RATED ENCLOSURE.



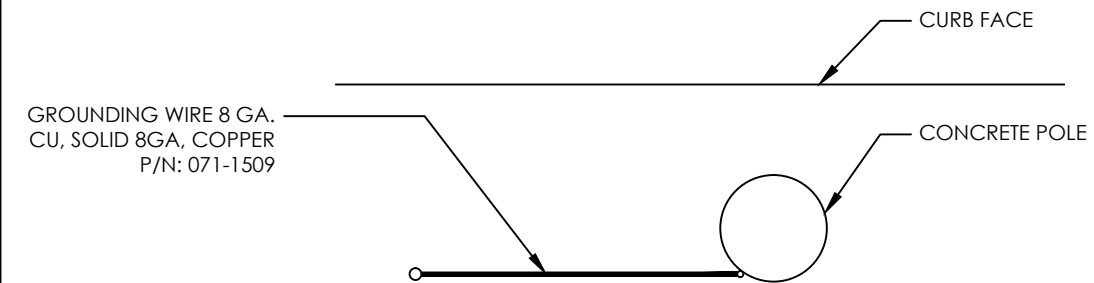
SOLAR POWER SOURCE

GROUND RESISTANCES SHALL BE 25 OHMS OR LESS. PROVIDE THE NECESSARY GROUND ROD QUANTITIES TO ACHIEVE THE REQUIRED GROUND RESISTANCE PER G.O.95 RULE 21.4 .



ELEVATION

SCALE: 3/4" = 1'-0"



PLAN VIEW

SCALE: 3/4" = 1'-0"

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
1	05/25/15	ADONIS V. JAVIER	A.J.
2	03/13/19	A. VAZQUEZ	A.V.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

26.3' CONCRETE POLE
SOLAR, EMBEDDED

SHEET TITLE:

ELECTRICAL

LICENSURE:

VICENTE MANLANGIT, P.E.

DESIGNER: J.M. DATE:

CAD DRAFTING: A.J. 05/25/15

CHECKED BY: J.M.

SCALE: AS SHOWN

SHEET NUMBER: REVISION:

E-1

2



CITY:
 COUNTY:
 JURISDICTION:
 SITE NUMBER/ID:
 SITE TYPE:

(N) 29' A.G.L. WOOD POLE
 SOLAR POWER, EMBEDDED

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
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ADVANCED METER
 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
 CLASS 5, SOLAR

SHEET TITLE:

TITLE SHEET

LICENSURE:

PROJECT SUMMARY:

SITE ADDRESS:
 VARIOUS

APPLICANT:
 SOUTHERN CALIFORNIA GAS CO.
 555 W. 5TH ST., 17TH FLOOR, LOS ANGELES, CA 90013
 REPRESENTATIVE: OLIVIA GUTIERREZ
 PHONE: (213) 244-2201

PROPERTY OWNER:

PUBLIC RIGHT OF WAY

LATITUDE: XX.YYYYYYYY

LONGITUDE: -YYY.XXXXXXXX

OCCUPANCY CLASSIFICATION: UTILITY/WIRELESS ANTENNA

ZONING CLASSIFICATION:

CONSTRUCTION TYPE:

PROJECT DESCRIPTION:
 SOUTHERN CALIFORNIA GAS CO. PROPOSES TO INSTALL ACLARA EQUIPMENT MOUNTED ON A NEW CLASS 5, WOOD POLE, 29' ABOVE GROUND LEVEL.

SHEET INDEX:

SHEET NO:	DESCRIPTION:
T-1	TITLE SHEET
T-2	GENERAL NOTES
A-1	ELEVATIONS
A-2	EQUIPMENT DETAILS
A-3	MOUNTING DETAILS
A-4	MATERIALS LIST
E-1	ELECTRICAL DIAGRAM

CONSULTING TEAM:

SAC/ZONING/PERMITTING: CONSTRUCTION PROJECT MANAGER

SOUTHERN CALIFORNIA GAS CO.
 OLIVIA GUTIERREZ
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 (213) 244-2201

SOUTHERN CALIFORNIA GAS CO.
 OLIVIA GUTIERREZ
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 (213) 244-2201

CONTRACTOR NETWORK CONSTRUCTION ENGINEER

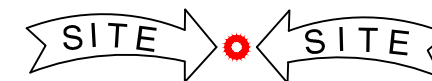
AM ORTEGA CONSTRUCTION
 CONTACT: SEAN RAMOS
 224 N. SHERMAN AVENUE,
 CORONA, CA 92882
 PHONE: (951) 360-1352

SOUTHERN CALIFORNIA GAS CO.
 JUAN MALDONADO
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 (213) 244-2324

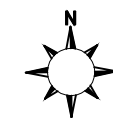
APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	<u>PUBLIC R.O.W.</u>		
PRECON. MGR			
DEVELOP. MGR			
CONST. MGR			
PROJECT. MGR			
SR. RF ENGINEER			
RF ENGINEER			
OPERATIONS			
SAC REP.			



VICINITY MAP
 NOT TO SCALE



PERMIT #:

REVISION HISTORY

REVISION A: INITIAL DESIGN.

APPLICABLE CODES:

2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
 2015 CITY CONSTRUCTION STANDARD DETAILS
 2016 CALIFORNIA BUILDING CODE
 ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
 2018 UNIFORM MECHANICAL CODE
 2017 NATIONAL ELECTRIC CODE
 CITY/COUNTY ORDINANCES

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	

SHEET NUMBER: T-1	REVISION: A
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GENERAL NOTES AND CONDITIONS

INTENT

1. THIS CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
2. THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
3. MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.
4. THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.
5. IN CASE OF INCONSISTENCY BETWEEN OTHER PARTS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE OWNER'S INTERPRETATION.
6. WHERE DRAWINGS REFER TO STANDARD SPECIFICATIONS, THE LATEST OR MOST RECENT EDITION SHALL APPLY.

CHANGE ORDER PROCEDURE

1. CHANGE ORDER MAY BE INITIATED BY THE OWNER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE OWNER SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT TO THE OWNER WITHIN 72 HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

CODE COMPLIANCE

1. ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE BUT NOT BE LIMITED TO THE LATEST VERSION OF THE FOLLOWING:
 - 2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
 - 2015 CITY CONSTRUCTION STANDARD DETAILS
 - 2016 CALIFORNIA BUILDING CODE
 - 2017 NATIONAL ELECTRIC CODE
 - 2018 UNIFORM MECHANICAL CODE
 - ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
 - CITY AND COUNTY ORDINANCES

ADMINISTRATION

1. BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL BE DEVELOPING A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
2. SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE (3) DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.
3. PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, AND LAND OWNER REPRESENTATIVE.
4. THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
5. DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. THE CONTRACTOR WILL COMPLY WITH ALL SCG SAFETY REQUIREMENTS IN THEIR AGREEMENT.
6. PROVIDE WRITTEN DAILY UPDATES AND PHOTOGRAPHS OF ON-SITE PROGRESS TO THE PROJECT MANAGER VIA E-MAIL.
7. A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
8. NOTIFY THE OWNER / PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.
9. CLOSEOUT PACKAGE IS DUE COMPLETE WITH DETAILED TOP PHOTOS UPON SITE PUNCHWALK WITH PROJECT MANAGER (SEE PROJECT MANAGER FOR SAMPLE CLOSEOUT PACKAGE).

WARRANTIES AND BONDS

1. THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
2. SEE MASTER CONTRACTOR SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

GENERAL NOTES

1. IDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL: ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SOCIAL GAS REPRESENTATIVES AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
2. PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
3. ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
4. THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
5. THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
6. THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT (213) 482-7030, AT LEAST TWO WORKING DAYS BEFORE THE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
7. ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL BOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
8. THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
9. THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
10. ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
11. VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF.
12. ALL RECONSTRUCTION, RESURFACING, PAVEMENT DELINEATION AND OTHER IMPROVEMENTS ARE TO BE RESTORED TO THE SAME OR IMPROVED CONDITION BASED ON GENERAL NOTE NO. 3 ABOVE.

INSURANCE AND BONDS

1. THE CONTRACTOR SHALL AT THEIR OWN EXPENSE CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT ALL INSURANCE AS REQUIRED AND LISTED.
2. THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER.
3. THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
4. REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.

CLEAN UP

1. THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK. AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY FOR USE.
2. VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
3. REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
4. IF NECESSARY TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

SUBSTANTIAL COMPLETION

1. SUBSTANTIAL COMPLETION IS THE STAGE OF WORK IS SUFFICIENTLY COMPLETE IN ACCORDANCE WITH THE CONTRACT SO THE OWNER CAN FULLY UTILIZE THE WORK FOR ITS INTENDED USE. SUCH TIME, CONTRACTOR SHALL SUBMIT TO OWNER A REQUEST FOR FINAL PAYMENT AND FINAL COMPLETION REPORT ITEMIZING AND DETAILED INVENTORY OF WORK TO COMPLETION AND AS-BUILT DOCUMENTS/DRAWINGS.
2. OWNER WILL ONLY RELEASE FINAL PAYMENT UPON SATISFACTORY REVIEW AND CONTRACTOR COMPLIANCE OF THE FINAL PAYMENT REQUIREMENTS.

CONFLICTS

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
2. THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
3. NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

STRUCTURAL NOTES

1. DESIGN CRITERIA:
 - 2013 CALIFORNIA BUILDING CODE.
 - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS OTHER STRUCTURES.
 - INTERNATIONAL BUILDING CODE (IBC) 2012
 - TIA-222 G STANDARD.
 - 2013 AASHTO LTS - 6TH EDITION.
 - G.O.95
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSUAL OR UNFORESEEN CONDITION PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE DISCREPANCY BETWEEN THE DRAWINGS AND THE CONDITION IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING THE WORK.
3. PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330. AGGREGATE ASTM C-33: MAXIMUM SIZE 1 1/2" FOR FOOTINGS AND 1" FOR ALL OTHER WORK.
4. ALL REINFORCING BARS, ANCHOR BOLTS, PRESTRESSING TENDONS AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
5. THE MAXIMUM SLUMP SHALL BE BETWEEN THE RANGE OF 3" TO 5" FOR FOOTINGS, SLABS ON EARTH AND MASS CONCRETE.

STANDARD SYMBOLS

	BUILDING
	BOLLARD
	CABLE TV LINE
	CENTER LINE
	CONCRETE BLOCK WALL
	CURB, GUTTER & SIDEWALK
	DRIVEWAY
	EDGE OF PAVEMENT
	EDGE OF DIRT
	ELECTRIC VAULT
	FENCE
	CHAINLINK FENCE
	FIRE HYDRANT
	GAS LINE
	GAS VALVE
	GATE VALVE
	GUY POLE
	JOINT POLE
	MANHOLE
	OIL LINE
	POWER LINE
	PROPERTY LINE
	PULLBOX
	RAILROAD TRACK
	RETAINING WALL
	RIGHT OF WAY
	SANITARY SEWER
	STORM DRAIN LINE
	STREET LIGHT LINE
	STREET SIGN
	SERVICE PEDESTAL
	TELCO LINE
	WATER LINE
	WATER METER

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

SHEET TITLE:

GENERAL
NOTES &
SYMBOLS

LICENSURE:

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	

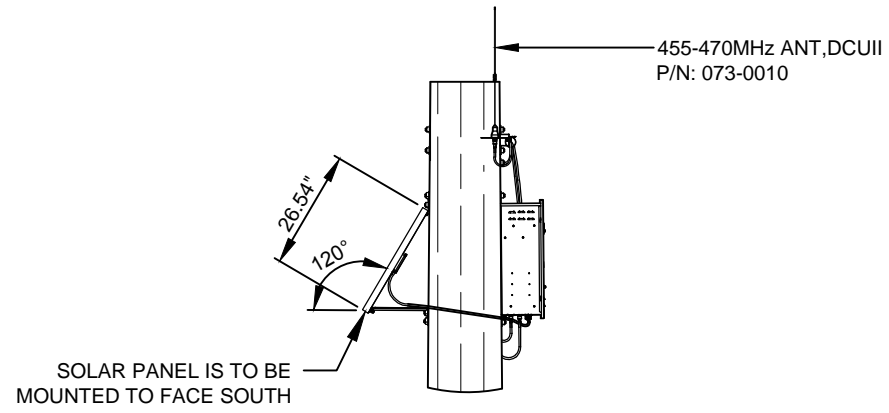
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REVISION:

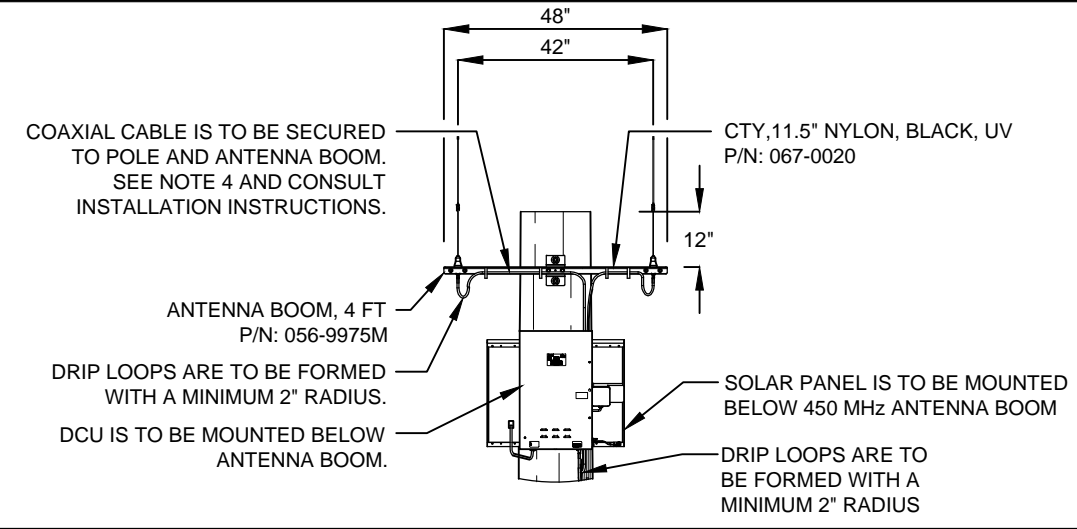
T-2

A

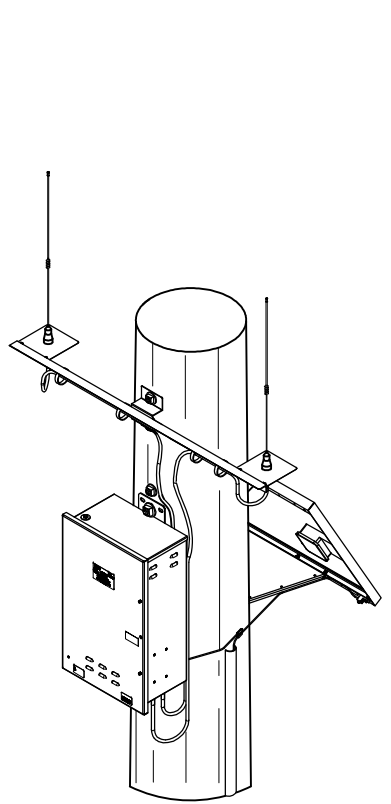
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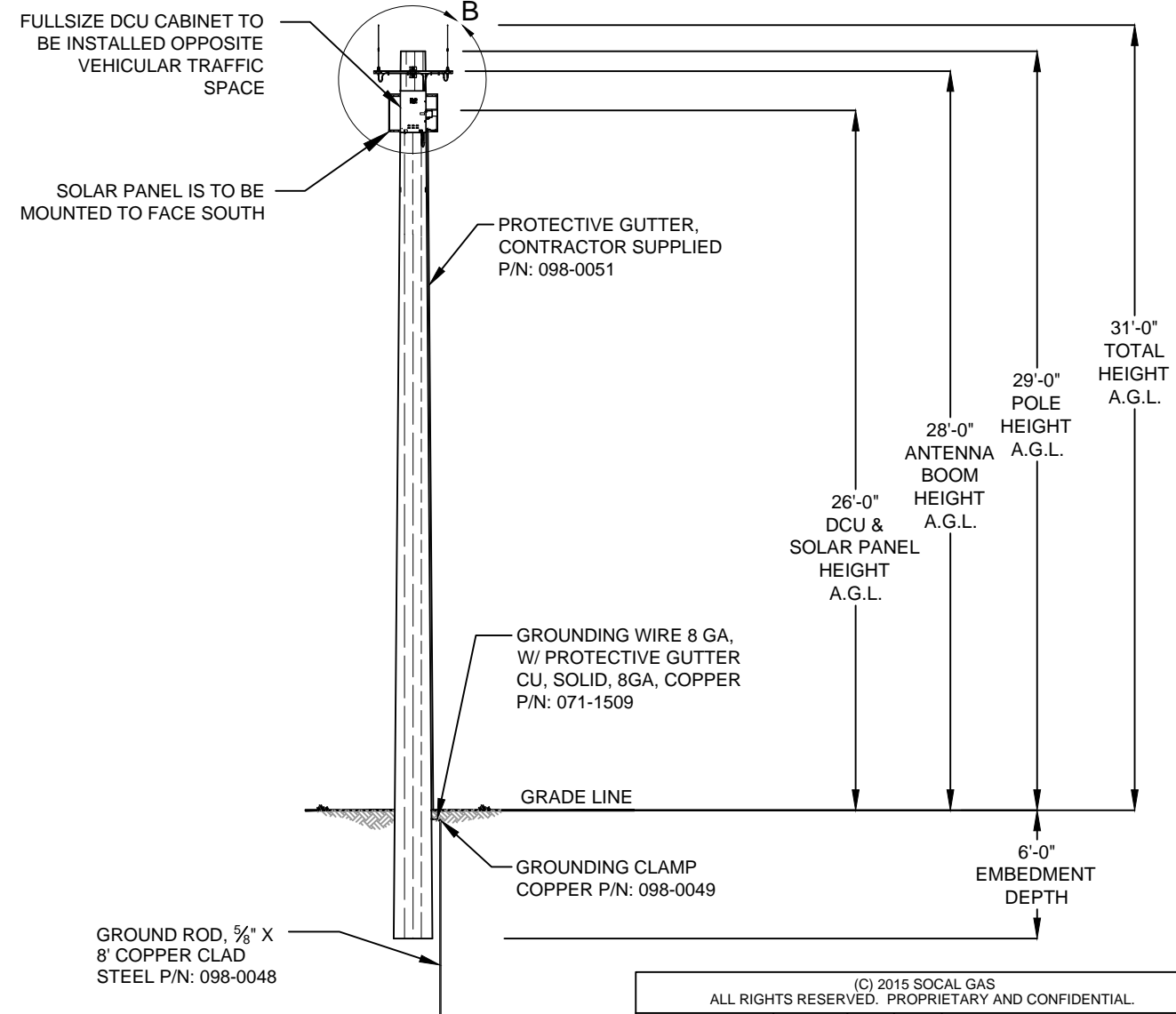
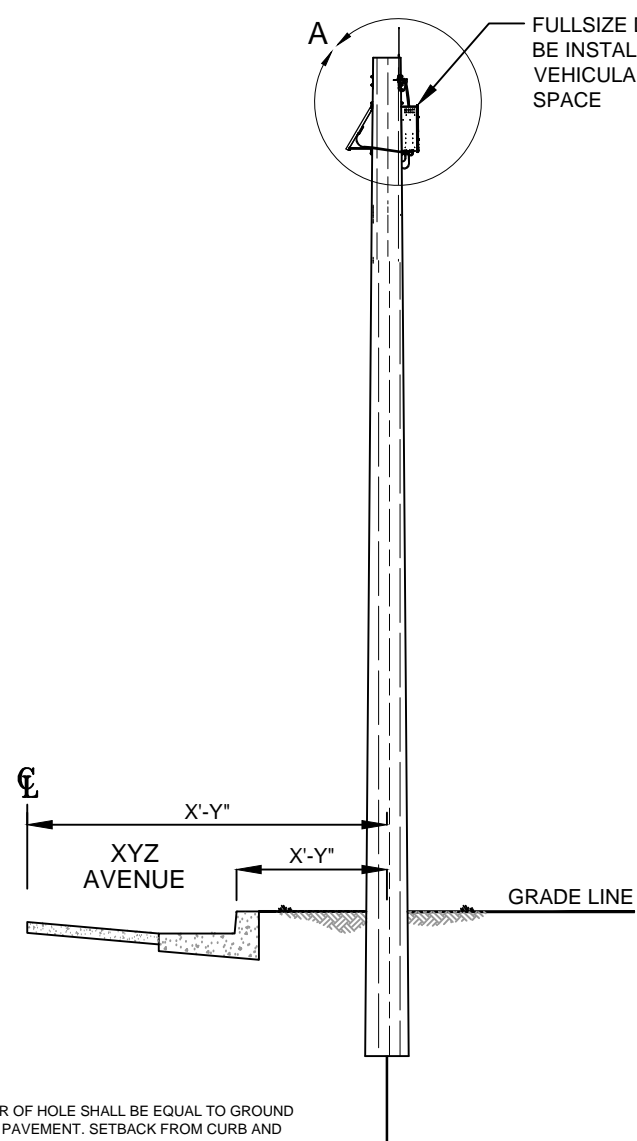
DETAIL A



DETAIL B



PARTIAL ISOMETRIC VIEW



- EMBEDMENT NOTES:
- HOLE TO BE EXCAVATED TO DEPTH SPECIFIED IN THE PLANS. DIAMETER OF HOLE SHALL BE EQUAL TO GROUND LINE POLE DIAMETER PLUS (+) 8" AND INSTALLED UPRIGHT INTO LEVEL PAVEMENT. SETBACK FROM CURB AND FINISH GRADE LINE PER JURISDICTION STANDARDS.
 - GENERALLY, SELECTED SUITABLE EXCAVATED MATERIAL WILL BE USED AS BACKFILL AND TAMPED/ COMPACTED THOROUGHLY (95%). ALTERNATELY, CONTROLLED LOW STRENGTH MATERIAL (CLSM) AS NON STRUCTURAL BACKFILL CAN BE EMPLOYED (CEMENT CONTENT = 188 POUNDS/ CU. YARD).
 - SURFACE SHALL BE RESTORED PER STANDARD SPECIFICATIONS & DETAILS FOR PUBLIC WORKS CONSTRUCTION 2012 (GREEN BOOK).
 - IF DIFFERING FIELD CONDITION ARISES OR CONSTRUCTION CHANGES, THE CONTRACTOR SHALL CONSULT WITH ENGINEER OF RECORD FOR DESIGN CHANGES/ RETROFIT IF REQUIRED.

(C) 2015 SOCAL GAS ALL RIGHTS RESERVED. PROPRIETARY AND CONFIDENTIAL.			
UNLESS OTHERWISE SPECIFIED	DATE	NAME	TITLE:
DIMENSIONS AS SHOWN			TYPICAL INSTALLATION WOOD POLE, SOLAR
TOLERANCES:			
FRACTIONAL ±			
ANGULAR: MACH ± BEND			
TWO PLACE DECIMAL ±			
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL:			
FINISH:			
WOOD			
NA			
SIZE DWG. NO.		REV	
B		A	
NO SCALE			

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE GAS COMPANY IS STRICTLY PROHIBITED.



ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

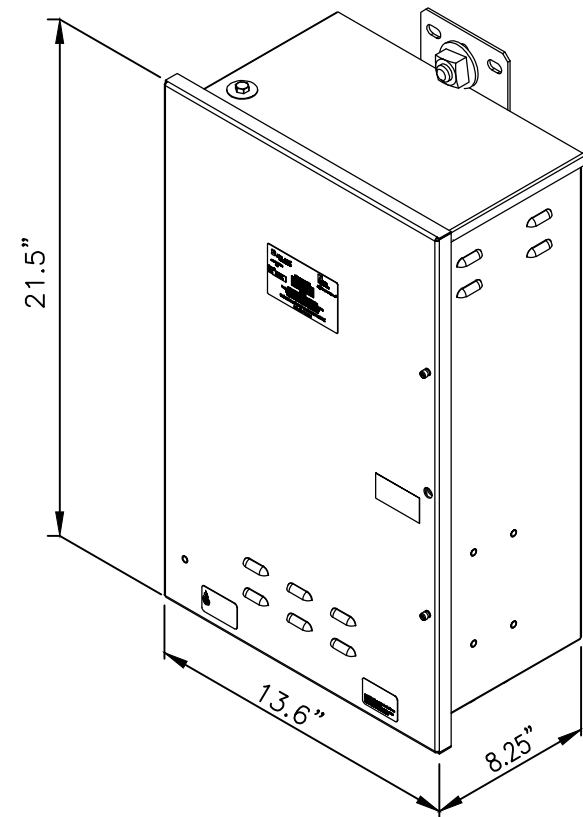
SHEET TITLE:

ELEVATIONS

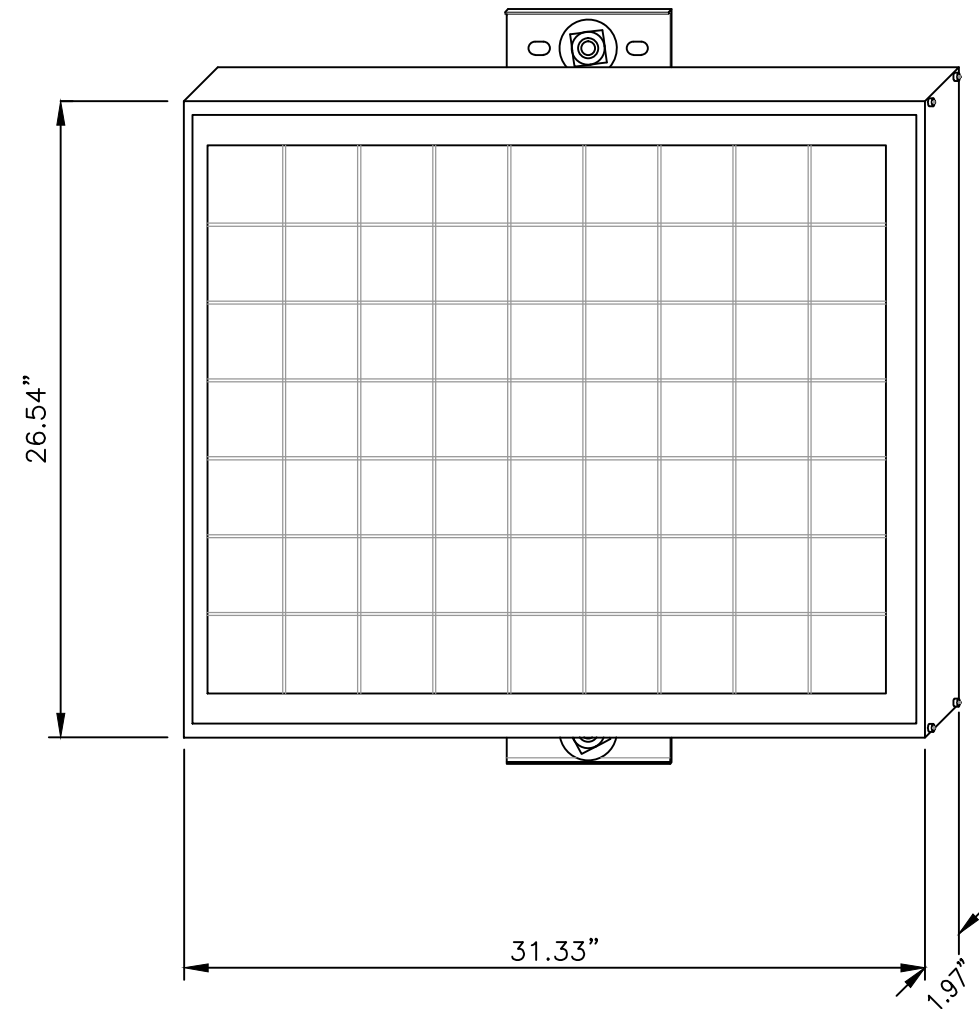
LICENSURE:

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	
SHEET NUMBER:	REVISION:
A-1	A

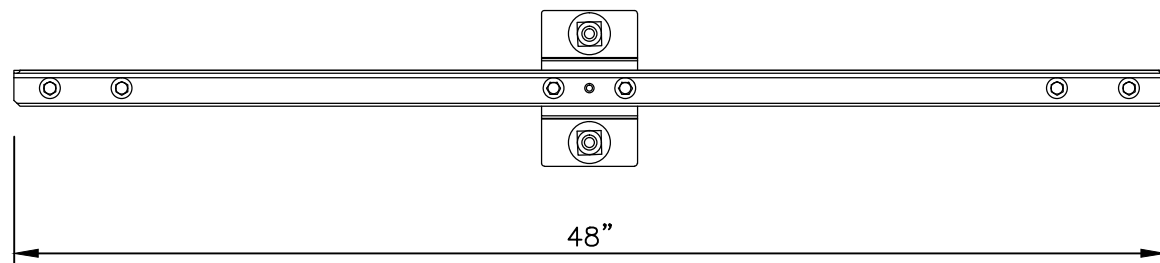
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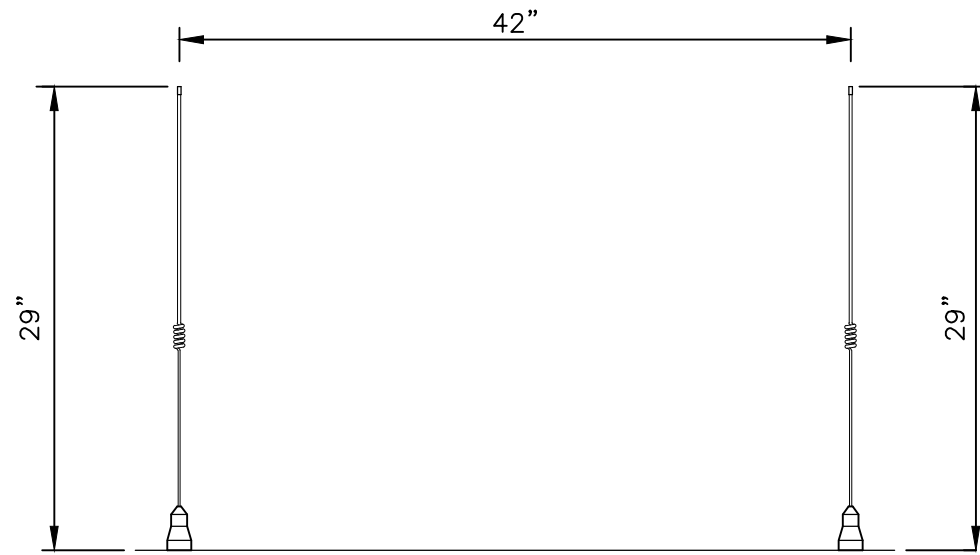
1 (D.C.U.) DATA COLLECTOR UNIT (55 LBS)



2 SOLAR PANEL (14.11 LBS)



3 ALUMINUM ANTENNA ARM



4 455-470 MHz ANTENNAS (WHIP)

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

SHEET TITLE:

**EQUIPMENT
DETAILS**

LICENSURE:

DATE:
DESIGNER: J.M.
CAD DRAFTING: A.J. 05/25/18
CHECKED BY: J.M.
SCALE: AS SHOWN

SHEET NUMBER: A-2	REVISION: A
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REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

SHEET TITLE:

**MOUNTING
DETAILS**

LICENSURE:

DATE:

DESIGNER: J.M.

CAD DRAFTING: A.J. 05/25/18

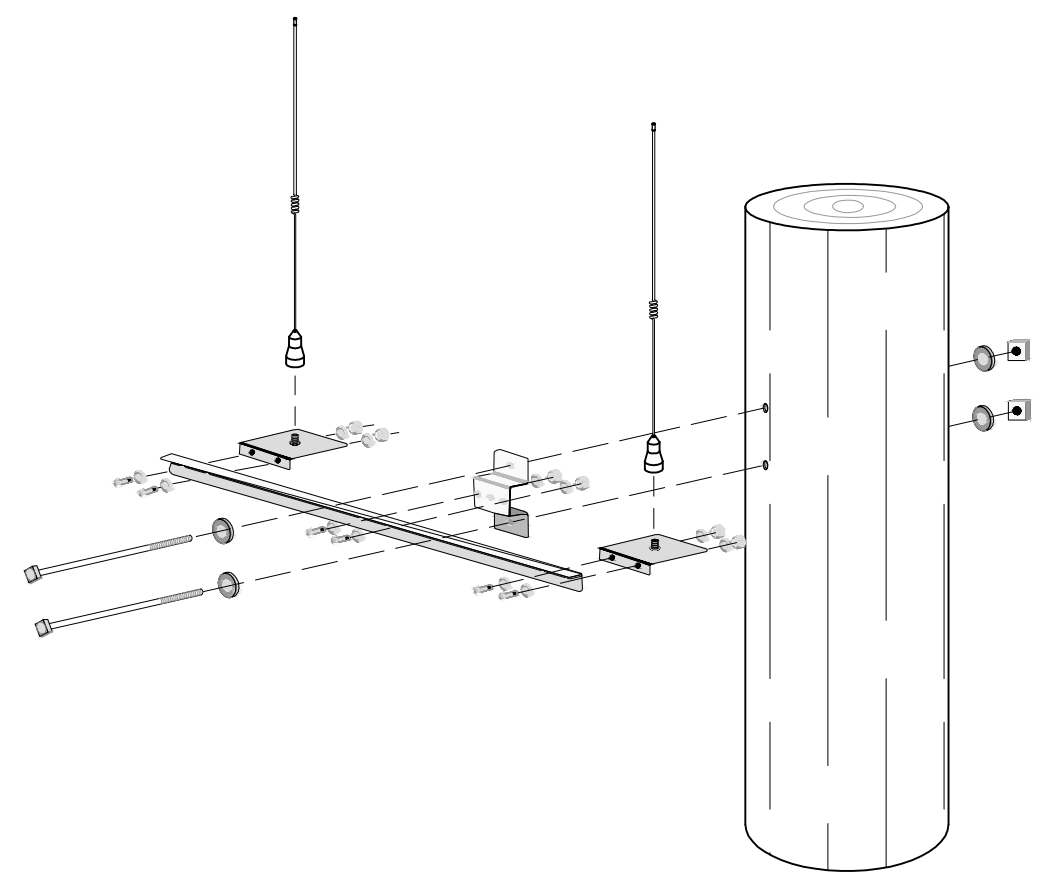
CHECKED BY: J.M.

SCALE: AS SHOWN

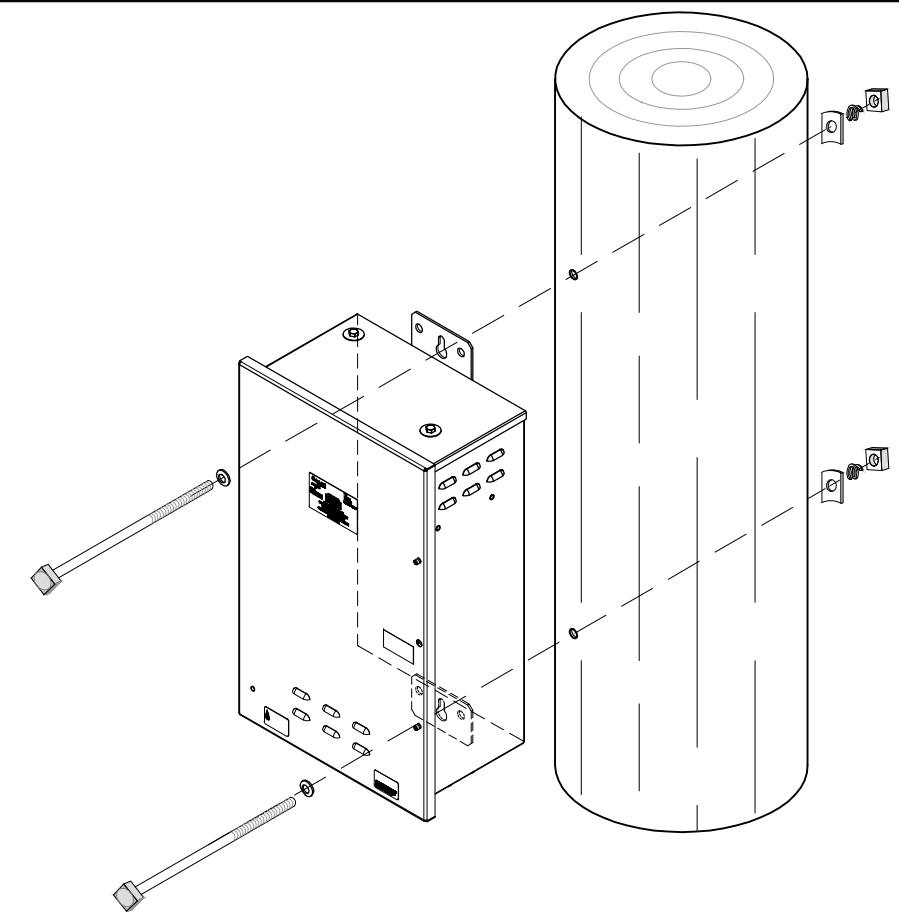
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A-3

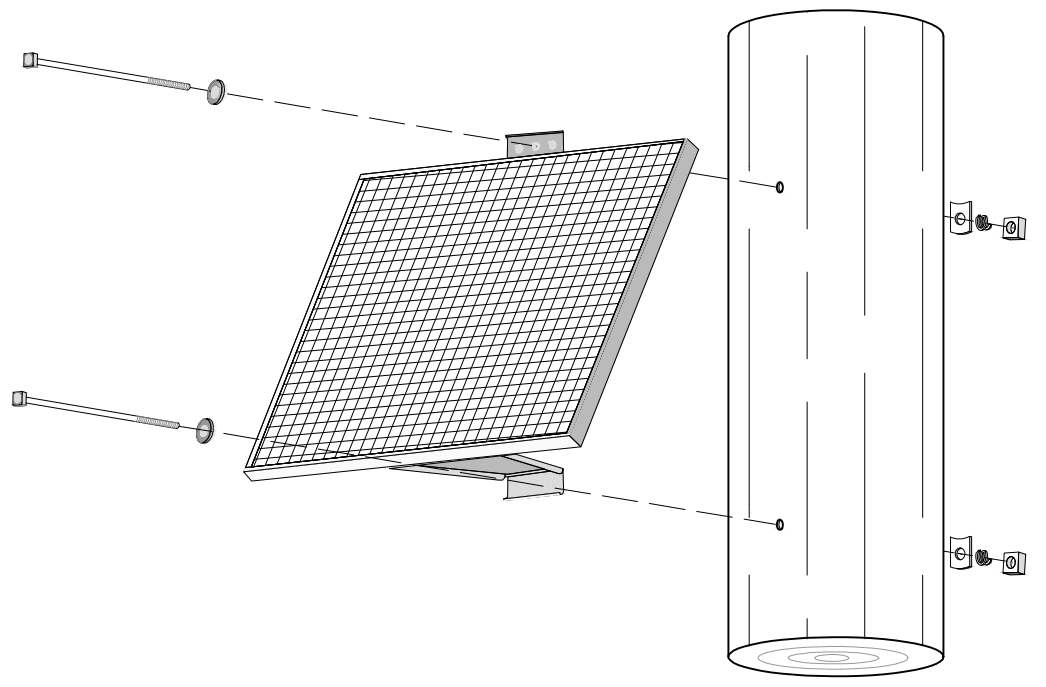
A



5 450 MHz ANTENNA INSTALLATION



6 (D.C.U.) DATA COLLECTOR UNIT INSTALLATION



7 SOLAR PANEL THROUGH POLE INSTALLATION

FIELD BULLETIN - INSTALLATION INSTRUCTIONS FOR DCU / SOLAR PANEL / ANTENNAS MOUNTING HARDWARE FOR WOOD POLES

1. DCU AND SOLAR PANEL MOUNTING BOLTS SHALL BE TORQUED TO 60-70 FT. LBS., AND 450 MHz ANTENNA MOUNTING BOLTS SHALL BE TORQUED TO 9-15 FT. LBS. SEE SCG'S POLE MOUNT CELLULAR DCU INSTALLATION INSTRUCTIONS, Y20342-TUM, LATEST REVISION.
2. APPLY LOCTITE THREAD LOCKER (PART #209728/BLUE 242) TO THE MOUNTING BOLT THREADS PRIOR TO PLACING THE NUT AND FINAL TORQUE APPLICATION.
3. SLIP MARK BOTH THE BOLT HEAD AND RETAINING NUT WITH APPLICABLE SLIP MARK MATERIAL (PART # 20G728/BLUE 242). SLIP MARK THE DCU, SOLAR PANEL AND THE 450 MHz ANTENNA BRACKET. SEE ATTACHMENT FOR SLIP PAINT SPECIFICATIONS.
4. ENSURE TORQUE VALUE/MEASUREMENTS ARE RECORDED ON THE INSTALLATION QA INSPECTION SHEET AND AS-BUILT MARK-UPS.
5. ASSIGNED SCG PM OR INSTALLATION CONTRACTOR SHALL TAKE PICTURES OF THE COMPLETED WORK, INCLUDING PICTURES OF EACH MOUNTING BOLT.
6. THE RESPECTIVE INSTALLATION QA FORM, AS-BUILT MARK-UPS, AND ASSOCIATED PICTURES SHALL BE UPLOADED TO SITERRA.

8 BULLETIN

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REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

SHEET TITLE:

MATERIALS LIST

LICENSURE:

DATE:

DESIGNER: J.M.
CAD DRAFTING: A.J. 05/25/18

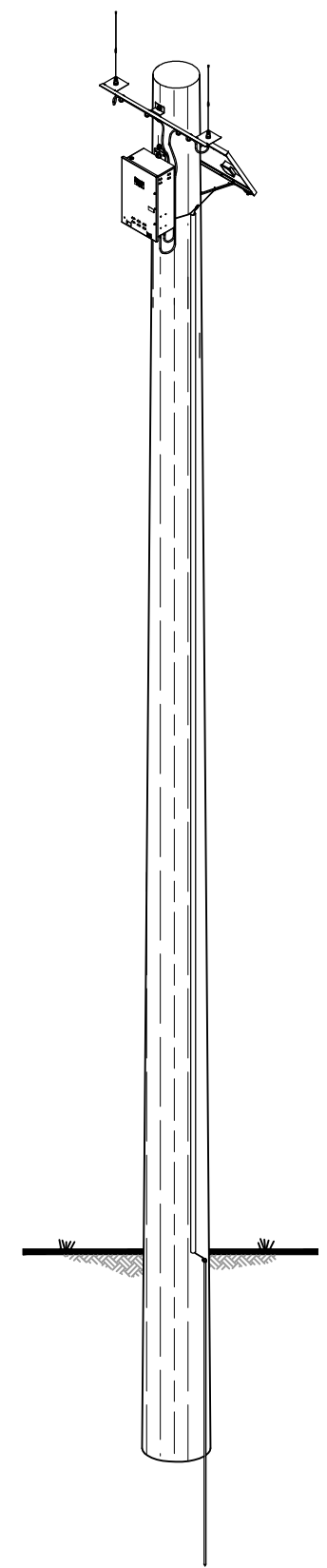
CHECKED BY: J.M.

SCALE: AS SHOWN

SHEET NUMBER: REVISION:

A-4 A

MATERIALS LIST			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	501-9975VERST1R1-SCG	DCU, CELL, SOLAR PWR, SCG	1
2	042-9975	BATTERY, 26 AMP HOUR, DCU 9975	1
3	073-0010	455-470MHz ANT,DCUII	2
4	EM-M10007	UHF ANT BASE ASSY	2
5	109-9975F65	65W SOL PANEL W/ MNTG	1
6	056-9975M	ANTENNA BOOM, 4 FT	1
7	109-11700-01	MTG KIT, WOOD POLE, SOLAR	1
	069-3306	5/16-18 HEX NUT SS	2
	069-3305	5/16 F/WASH METAL,SS	2
	069-3304	5/16 " SPR LW, .32 ID X .59 OD, 18-8 SS	2
	069-561832LS	5/16-18 X 1", HEX HEAD BOLT,SS	2
	067-9975F	BRKT,POLE MNTG	1
	070-2570-06	6' LOW LOSS N-M TO N-M	2
*8	067-0020	CTY,11.5" NYLON, BLACK, UV	4
*9	071-1509	GROUNDING WIRE 8 GA, CU, SOLID	1
*10	098-0051	PROTECTIVE GUTTER, CONTRACTOR SUPPLIED	1
*11	098-0049	GROUNDING CLAMP	1
*12	098-0050	GROUNDING WIRE SPLICE	1
*13	098-0048	GROUND ROD, 5/8" X 8'	1
*14	069-5801	5/8" FLAT WASHER, HD GALV	12
*15	069-5811768-G	5/8"-11 THREADED ROD, HD GALV	6
*16	069-5800	5/8"-11 THREADED NUT, HD GALV	12
*17	TCP-360	1/2" CABLE SPACERS	AS NEEDED
*18	CSS-100	CABLE STRAP, 10' w/ LCK HD	2
*19	084-0119	FUSION TAPE	AS NEEDED
*20	TBD	SQUARE WASHERS	6
*21	TBD	5/8" SPRING COIL WASHER	6
*22	TBD	5/8" X 5" LAG SCREW	AS NEEDED
*23	TBD	WASHER, SQUARE, CURVED, GALV (SIZED AS REQ'D)	2
*24	TBD	WASHER, DOUBLE COIL, SPRING, GALV (SIZED AS REQUIRED)	AS NEEDED
*CONTRACTOR SUPPLIED MATERIALS			



ISOMETRIC VIEW
NOT TO SCALE

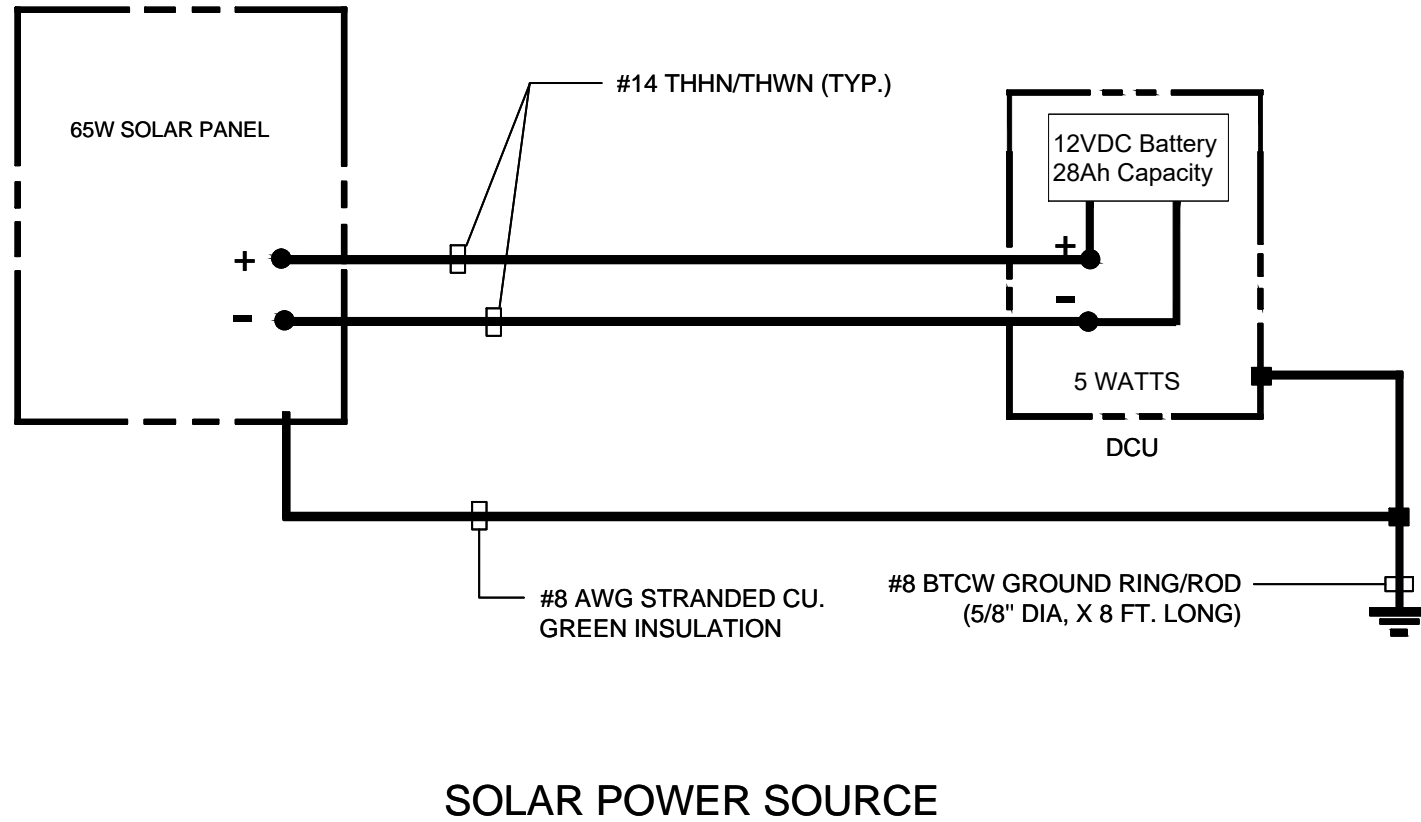
- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

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UNLESS OTHERWISE SPECIFIED	NAME	DATE	TITLE:
DIMENSIONS AS SHOWN			TYPICAL INSTALLATION WOOD POLE, SOLAR
TOLERANCES:	CHECKED		
FRACTIONAL ±			
ANGULAR MATCH ± BEND	ENG APPR.		
TWO PLACE DECIMAL ±	MFG APPR.		
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL	COMMENTS		
WOOD	PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF ACLARA. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF ACLARA IS PROHIBITED.		
FINISH			
NA			
NO SCALE			
	SIZE DWG. NO.		REV
	B	29'-WOOD-SOL-EMB	A

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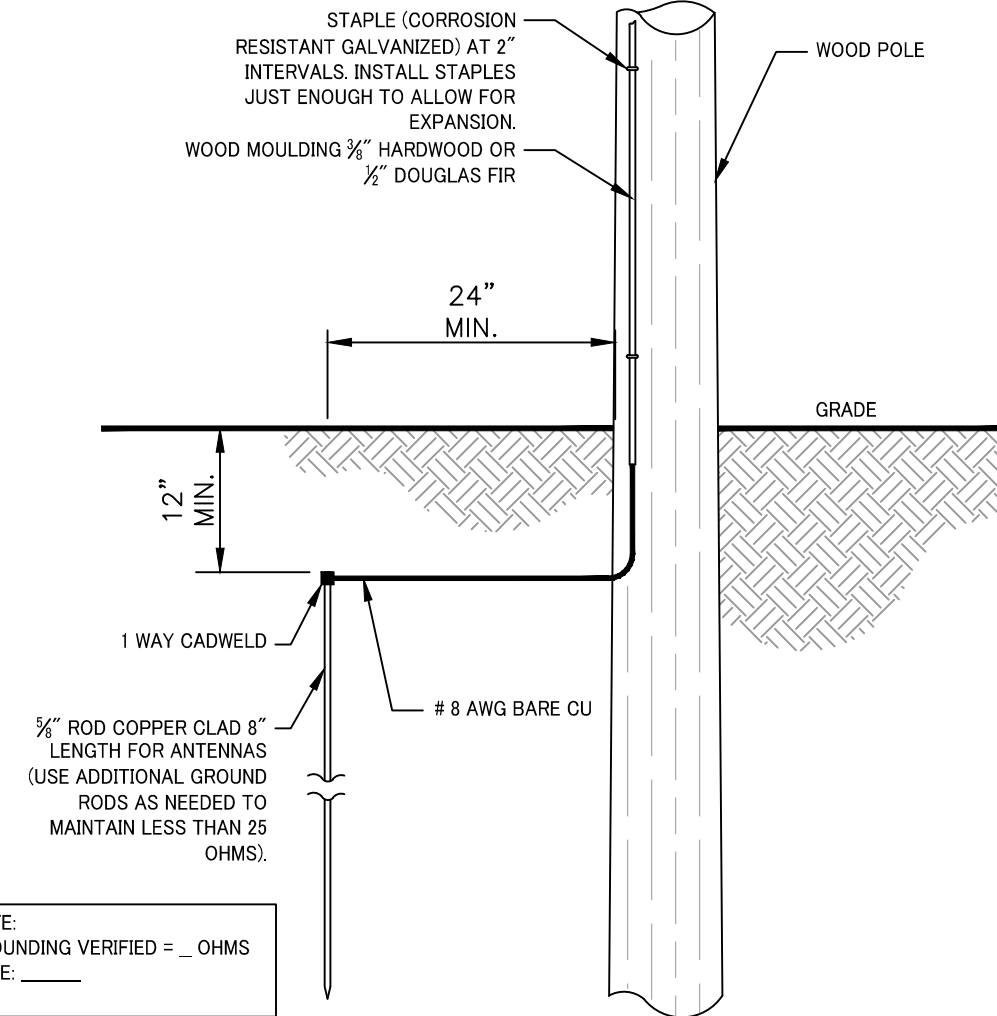
NOTES:

1. LOAD AND VOLTAGE DROP CALCULATIONS MUST BE PERFORMED FOR SPECIFIC SITE DESIGN.
2. AERATE CONDUCTORS AS REQUIRED BY NEC.
3. ALL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
4. ALL CONDUCTORS SHALL BE COPPER AND THHN/THWN RATED INSULATION
5. ALL OUTDOOR INSTALLATION SHALL BE IN AN OUTDOOR RATED ENCLOSURE.
6. GROUND RESISTANCES SHALL BE 25 OHMS OR LESS. PROVIDE THE NECESSARY GROUND ROD QUANTITIES TO ACHIEVE THE REQUIRED GROUND RESISTANCE.



SOLAR POWER SOURCE

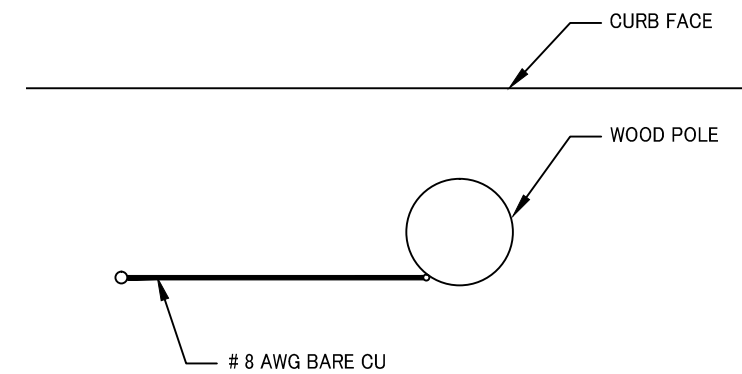
GROUND RESISTANCES SHALL BE 25 OHMS OR LESS. PROVIDE THE NECESSARY GROUND ROD QUANTITIES TO ACHIEVE THE REQUIRED GROUND RESISTANCE PER G.O.95 RULE 21.4 .



NOTE:
GROUNDING VERIFIED = _ OHMS
DATE: _____

ELEVATION

SCALE: 3/4" = 1'-0"



PLAN VIEW

SCALE: 3/4" = 1'-0"

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

29' WOOD POLE
CLASS 5, SOLAR

SHEET TITLE:

ELECTRICAL

LICENSURE:

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	

SHEET NUMBER: E-1	REVISION: A
-----------------------------	----------------



CITY:
 COUNTY:
 JURISDICTION:
 SITE NUMBER/ID:
 SITE TYPE:

(N) 31' A.G.L. STEEL POLE
 SOLAR POWER, EMBEDDED

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
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ADVANCED METER
 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:

31' STEEL POLE
 EM210-900A370-PC-FP-HH-6" EMB-1" AH
 SOLAR, EMBEDDED

SHEET TITLE:

TITLE SHEET

LICENSURE:

PROJECT SUMMARY:

SITE ADDRESS:
 VARIOUS

APPLICANT:
 SOUTHERN CALIFORNIA GAS CO.
 555 W. 5TH ST., 17TH FLOOR, LOS ANGELES, CA 90013
 REPRESENTATIVE: VERONICA FISTES
 PHONE: (213) 244-2297

PROPERTY OWNER:

PUBLIC RIGHT OF WAY

LATITUDE: XX.YYYYYYYY

LONGITUDE: -YYY.XXXXXXXX

OCCUPANCY CLASSIFICATION: UNMANNED UTILITY WIRELESS FACILITY

ZONING CLASSIFICATION:

CONSTRUCTION TYPE:

PROJECT DESCRIPTION:
 SOUTHERN CALIFORNIA GAS CO. PROPOSES TO INSTALL ACLARA EQUIPMENT MOUNTED 28'-0" ABOVE GROUND LEVEL ON A NEW 31' A.G.L. STEEL POLE, EM32-850A370-85-FD.

SHEET INDEX:

SHEET NO.	DESCRIPTION:
T-1	TITLE SHEET
T-2	GENERAL NOTES
A-1	ELEVATIONS
A-2	DCU BOX DETAILS
A-3	EQUIPMENT DETAILS
A-4	MOUNTING DETAILS
A-5	MATERIALS LIST
E-1	ELECTRICAL DIAGRAM

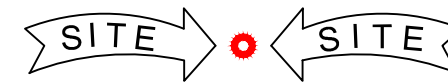
CONSULTING TEAM:

<u>SAC/ZONING/PERMITTING:</u>	<u>CONSTRUCTION PROJECT MANAGER</u>
SOUTHERN CALIFORNIA GAS CO. VERONICA FISTES 555 W. 5TH ST., 17TH FLOOR LOS ANGELES, CA 90013 (213) 244-2297	SOUTHERN CALIFORNIA GAS CO. JUAN MALDONADO 555 W. 5TH ST., 17TH FLOOR LOS ANGELES, CA 90013 (213) 244-2324
<u>CONTRACTOR</u>	<u>NETWORK CONSTRUCTION ENGINEER</u>
AM ORTEGA CONSTRUCTION CONTACT: SEAN RAMOS 224 N. SHERMAN AVENUE, CORONA, CA 92882 PHONE: (951) 360-1352	SOUTHERN CALIFORNIA GAS CO. JUAN MALDONADO 555 W. 5TH ST., 17TH FLOOR LOS ANGELES, CA 90013 (213) 244-2324

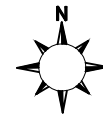
APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	<u>PUBLIC R.O.W.</u>		
PRECON. MGR			
DEVELOP. MGR			
CONST. MGR			
PROJECT. MGR			
SR. RF ENGINEER			
RF ENGINEER			
OPERATIONS			
SAC REP.			



VICINITY MAP
 NOT TO SCALE



PERMIT #:

REVISION HISTORY

REVISION A: INITIAL DESIGN

APPLICABLE CODES:

2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
 2015 CITY CONSTRUCTION STANDARD DETAILS
 2016 CALIFORNIA BUILDING CODE
 ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
 2018 UNIFORM MECHANICAL CODE
 2017 NATIONAL ELECTRIC CODE
 CITY/COUNTY ORDINANCES

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	
SHEET NUMBER: T-1	REVISION: A

GENERAL NOTES AND CONDITIONS

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

INTENT

- THIS CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.
- THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.
- IN CASE OF INCONSISTENCY BETWEEN OTHER PARTS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE OWNER'S INTERPRETATION.
- WHERE DRAWINGS REFER TO STANDARD SPECIFICATIONS, THE LATEST OR MOST RECENT EDITION SHALL APPLY.

CHANGE ORDER PROCEDURE

- CHANGE ORDER MAY BE INITIATED BY THE OWNER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE OWNER SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT TO THE OWNER WITHIN 72 HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

CODE COMPLIANCE

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE BUT NOT BE LIMITED TO THE LATEST VERSION OF THE FOLLOWING:
 - 2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
 - 2015 CITY CONSTRUCTION STANDARD DETAILS
 - 2016 CALIFORNIA BUILDING CODE
 - 2017 NATIONAL ELECTRIC CODE
 - 2018 UNIFORM MECHANICAL CODE
 - ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
 - CITY AND COUNTY ORDINANCES

ADMINISTRATION

- BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL BE DEVELOPING A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE (3) DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.
- PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, AND LAND OWNER REPRESENTATIVE.
- THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
- DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. THE CONTRACTOR WILL COMPLY WITH ALL SCG SAFETY REQUIREMENTS IN THEIR AGREEMENT.
- PROVIDE WRITTEN DAILY UPDATES AND PHOTOGRAPHS OF ON-SITE PROGRESS TO THE PROJECT MANAGER VIA E-MAIL.
- A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THE OWNER / PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.
- CLOSEOUT PACKAGE IS DUE COMPLETE WITH DETAILED TOP PHOTOS UPON SITE PUNCHWALK WITH PROJECT MANAGER (SEE PROJECT MANAGER FOR SAMPLE CLOSEOUT PACKAGE).

WARRANTIES AND BONDS

- THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
- SEE MASTER CONTRACTOR SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

GENERAL NOTES

- IDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL: ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SOCIAL GAS REPRESENTATIVES AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT (213) 482-7030, AT LEAST TWO WORKING DAYS BEFORE THE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL BOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
- THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF.
- ALL RECONSTRUCTION, RESURFACING, PAVEMENT DELINEATION AND OTHER IMPROVEMENTS ARE TO BE RESTORED TO THE SAME OR IMPROVED CONDITION BASED ON GENERAL NOTE NO. 3 ABOVE.

INSURANCE AND BONDS

- THE CONTRACTOR SHALL AT THEIR OWN EXPENSE CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT ALL INSURANCE AS REQUIRED AND LISTED.
- THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER.
- THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
- REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.

CLEAN UP

- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK. AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY FOR USE.
- VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
- REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
- IF NECESSARY TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

SUBSTANTIAL COMPLETION

- SUBSTANTIAL COMPLETION IS THE STAGE OF WORK IS SUFFICIENTLY COMPLETE IN ACCORDANCE WITH THE CONTRACT SO THE OWNER CAN FULLY UTILIZE THE WORK FOR ITS INTENDED USE. SUCH TIME, CONTRACTOR SHALL SUBMIT TO OWNER A REQUEST FOR FINAL PAYMENT AND FINAL COMPLETION REPORT ITEMIZING AND DETAILED INVENTORY OF WORK TO COMPLETION AND AS-BUILT DOCUMENTS/DRAWINGS.
- OWNER WILL ONLY RELEASE FINAL PAYMENT UPON SATISFACTORY REVIEW AND CONTRACTOR COMPLIANCE OF THE FINAL PAYMENT REQUIREMENTS.

CONFLICTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
- NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

STRUCTURAL NOTES

- DESIGN CRITERIA:
 - 2016 CALIFORNIA BUILDING CODE.
 - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS OTHER STRUCTURES.
 - INTERNATIONAL BUILDING CODE (IBC) 2015
 - TIA-222 G STANDARD.
 - 2018 AASHTO LTS - 7TH EDITION.
 - G.O.95
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSUAL OR UNFORESEEN CONDITION PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE DISCREPANCY BETWEEN THE DRAWINGS AND THE CONDITION IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING THE WORK.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330. AGGREGATE ASTM C-33: MAXIMUM SIZE 1 1/2" FOR FOOTINGS AND 1" FOR ALL OTHER WORK.
- ALL REINFORCING BARS, ANCHOR BOLTS, PRESTRESSING TENDONS AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- THE MAXIMUM SLUMP SHALL BE BETWEEN THE RANGE OF 3" TO 5" FOR FOOTINGS, SLABS ON EARTH AND MASS CONCRETE.

STANDARD SYMBOLS

	BUILDING
	BOLLARD
	CABLE TV LINE
	CENTER LINE
	CONCRETE BLOCK WALL
	CURB, GUTTER & SIDEWALK
	DRIVEWAY
	EDGE OF PAVEMENT
	EDGE OF DIRT
	ELECTRIC VAULT
	FENCE
	CHAINLINK FENCE
	FIRE HYDRANT
	GAS LINE
	GAS VALVE
	GATE VALVE
	GUY POLE
	JOINT POLE
	MANHOLE
	OIL LINE
	POWER LINE
	PROPERTY LINE
	PULLBOX
	RAILROAD TRACK
	RETAINING WALL
	RIGHT OF WAY
	SANITARY SEWER
	STORM DRAIN LINE
	STREET LIGHT LINE
	STREET SIGN
	SERVICE PEDESTAL
	TELCO LINE
	WATER LINE
	WATER METER

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
31' STEEL POLE
EM210-900A370-PC-FP-HH-6' EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:
GENERAL NOTES & SYMBOLS

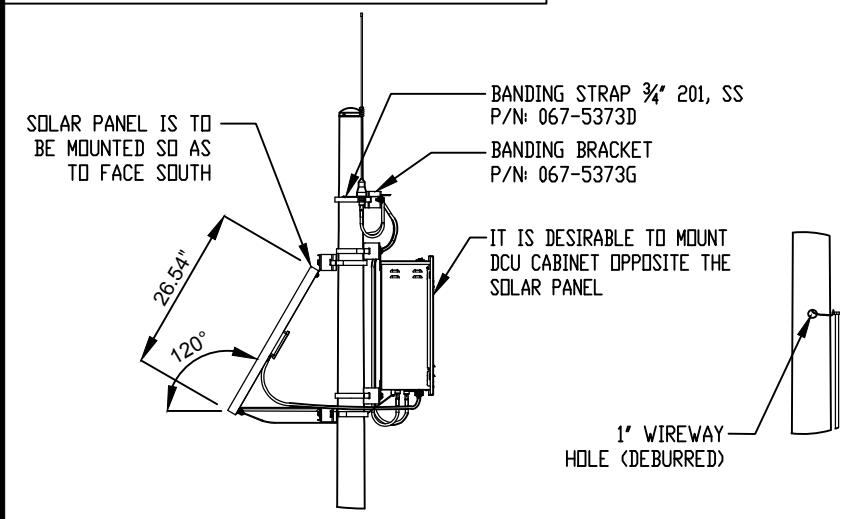
LICENSURE:

DESIGNER: J.M.
CAD DRAFTING: A.J. 05/25/18
CHECKED BY: J.M.
SCALE: AS SHOWN

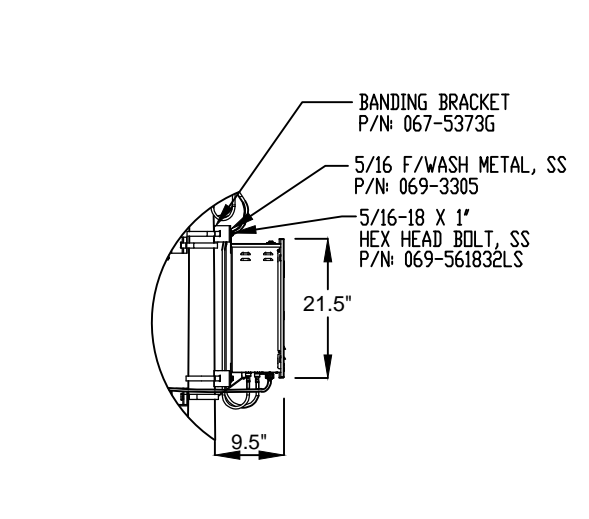
SHEET NUMBER: REVISION:

T-2 **A**

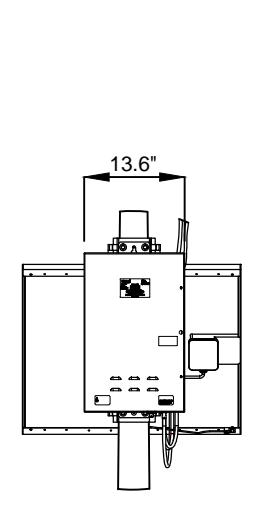
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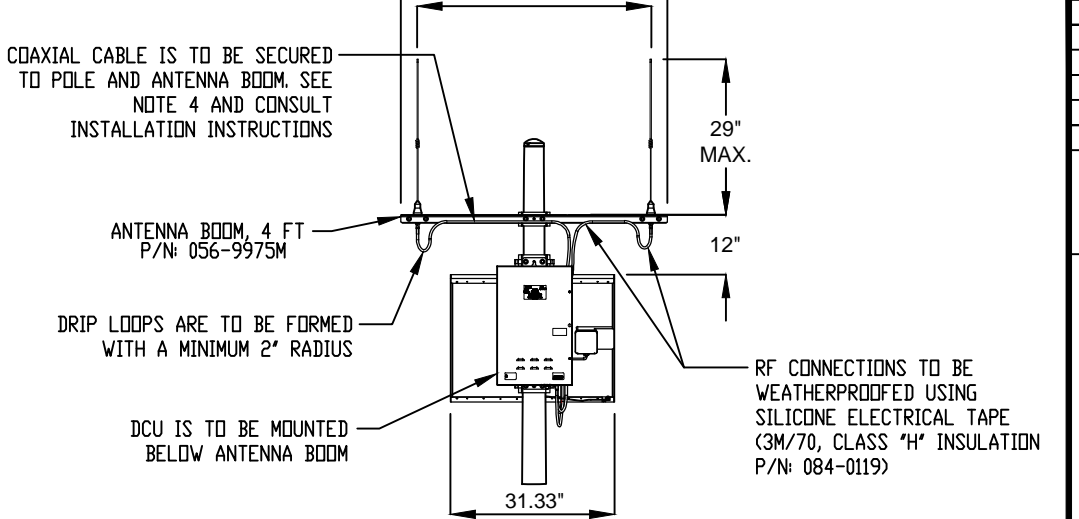
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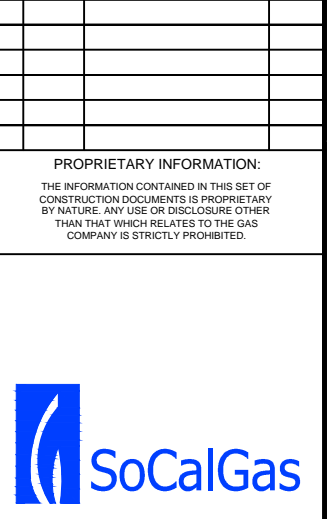
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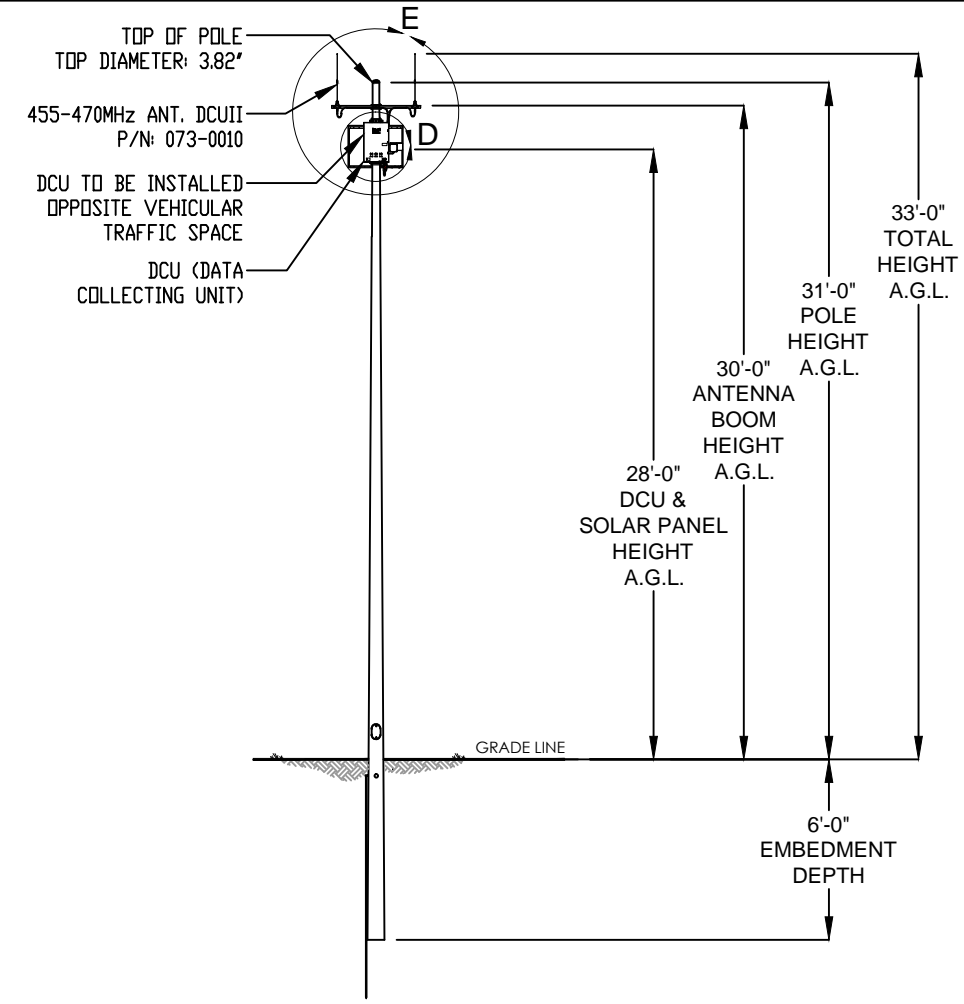
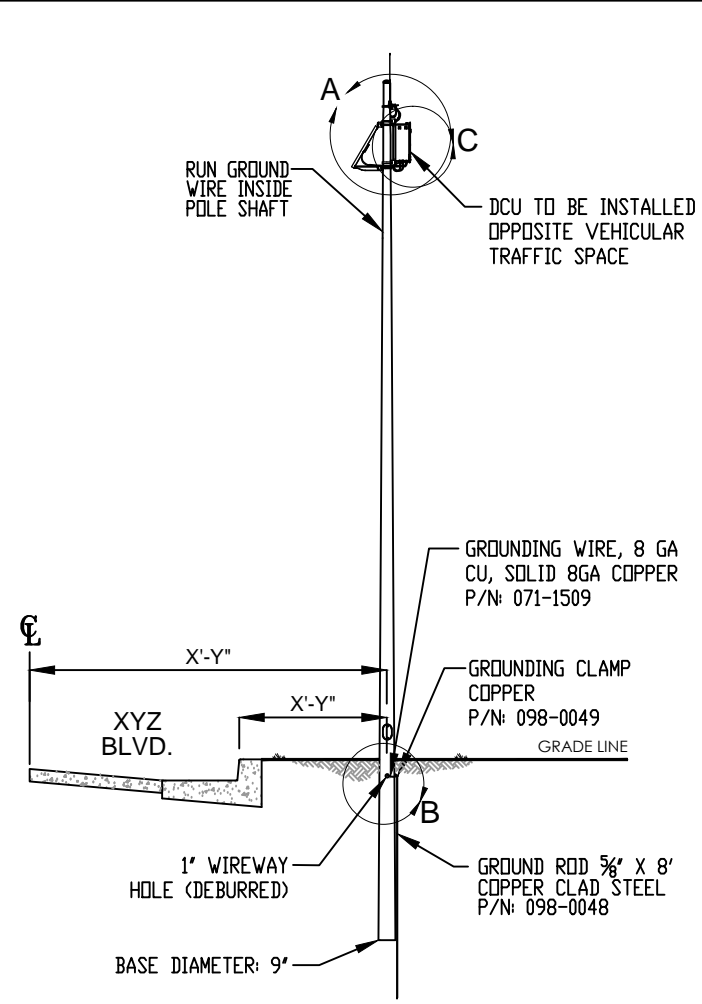
DETAIL C



DETAIL D



DETAIL E



- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

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UNLESS OTHERWISE SPECIFIED	DATE	BY	TITLE:
DIMENSIONS AS SHOWN			TYPICAL INSTALLATION STEEL POLE, SOLAR
TOLERANCES:			
FRACTIONAL ±			
ANGULAR: MACH ± BEND			
TWO PLACE DECIMAL ±			
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL			COMMENTS
STEEL			PROPRIETARY AND CONFIDENTIAL
FINISH			THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.
	SIZE DWG. NO.	REV	
	B	A	
	NO SCALE	WEIGHT:	

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
31' STEEL POLE
EM210-900A370-PC-FP-HH-6" EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:
ELEVATIONS

LICENSURE:

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	05/25/18
CHECKED BY: J.M.	
SCALE: AS SHOWN	
SHEET NUMBER:	REVISION:
A-1	A

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

31' STEEL POLE
EM210-900A370-PC-FP-HH-6" EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:

DCU BOX DETAILS

LICENSURE:

DATE:

DESIGNER: J.M.

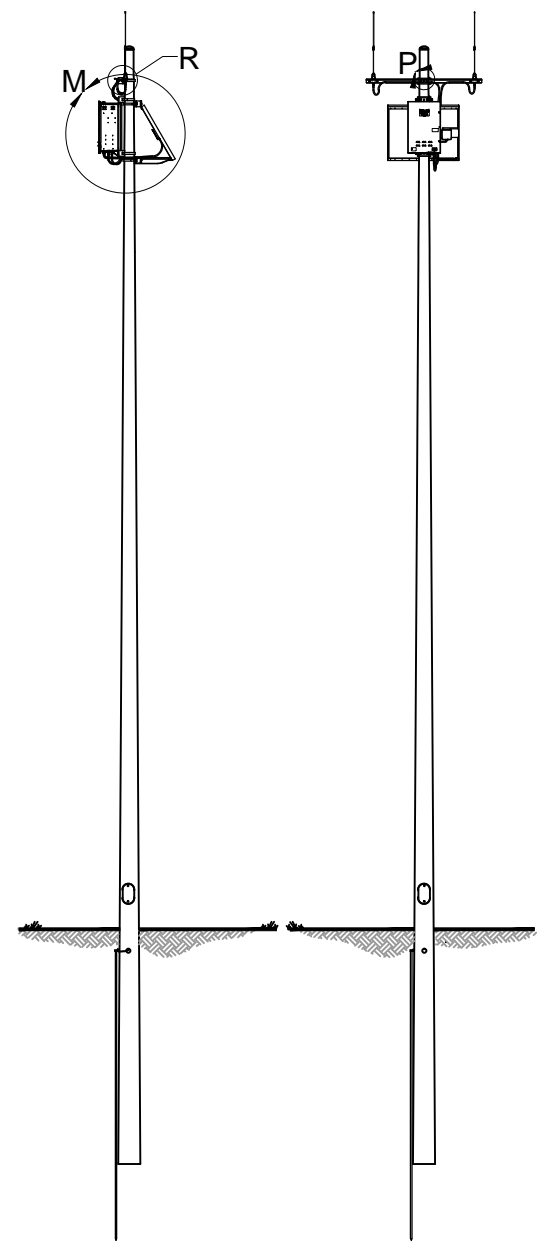
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CHECKED BY: J.M.

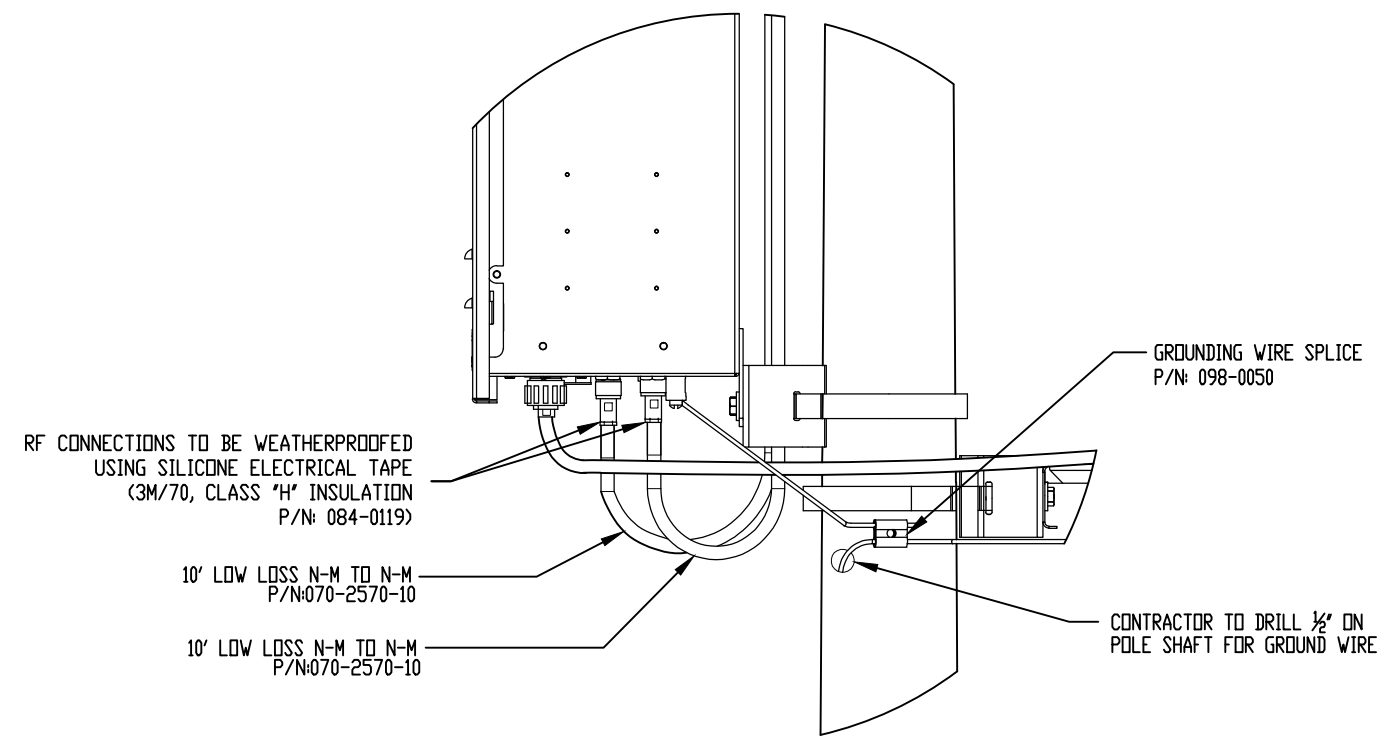
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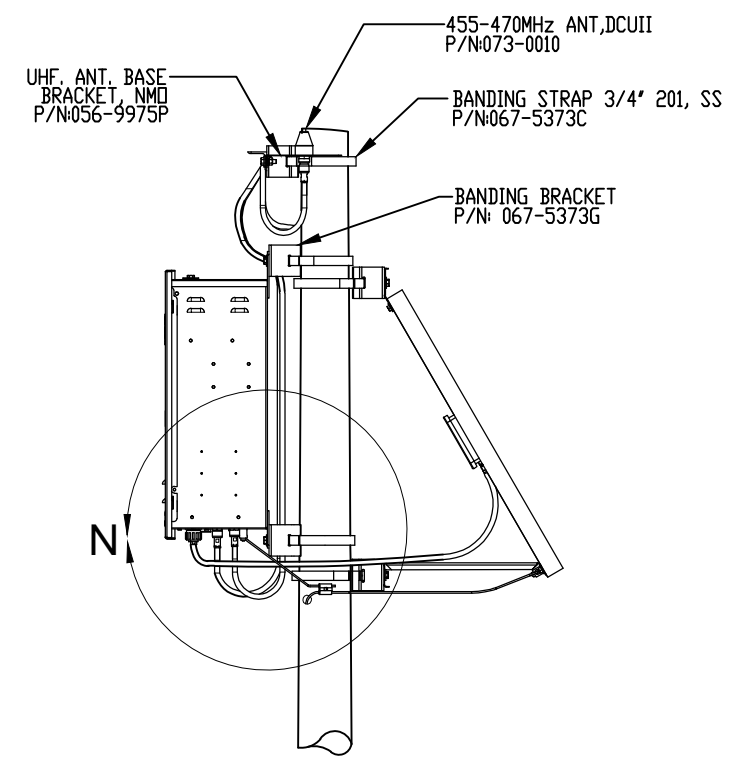
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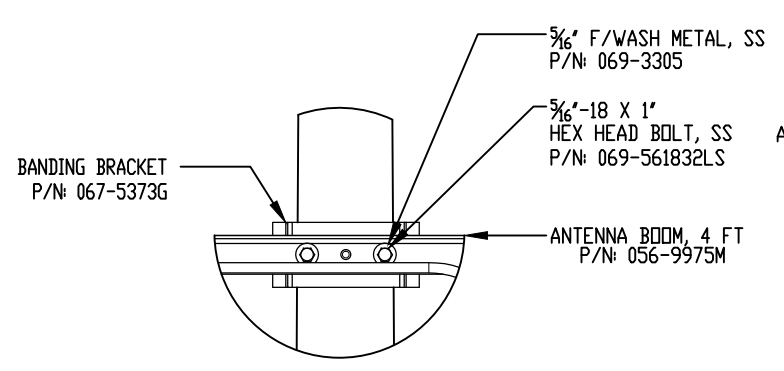
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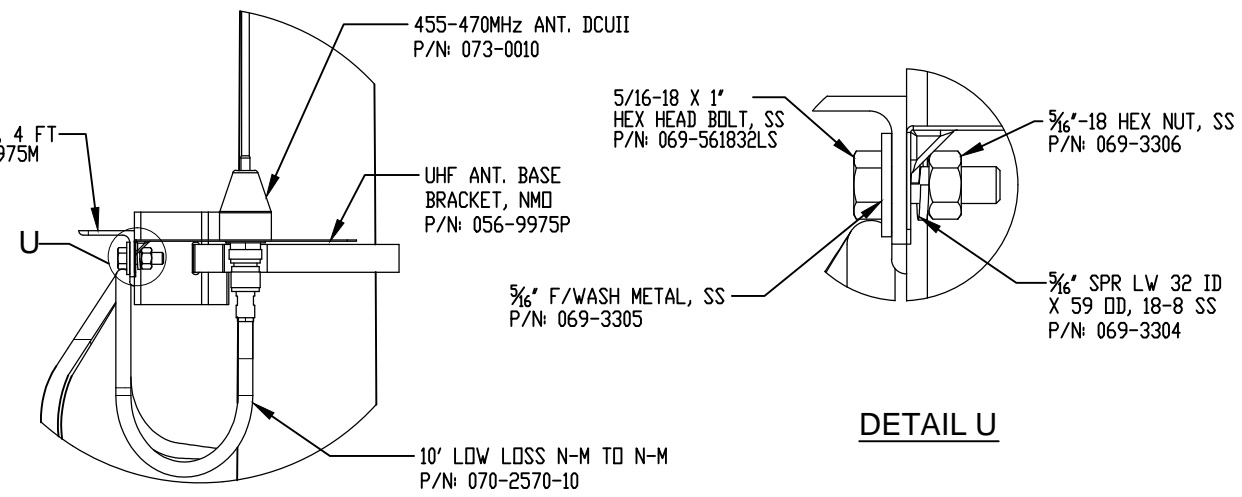
DETAIL N



DETAIL M



DETAIL P



DETAIL R

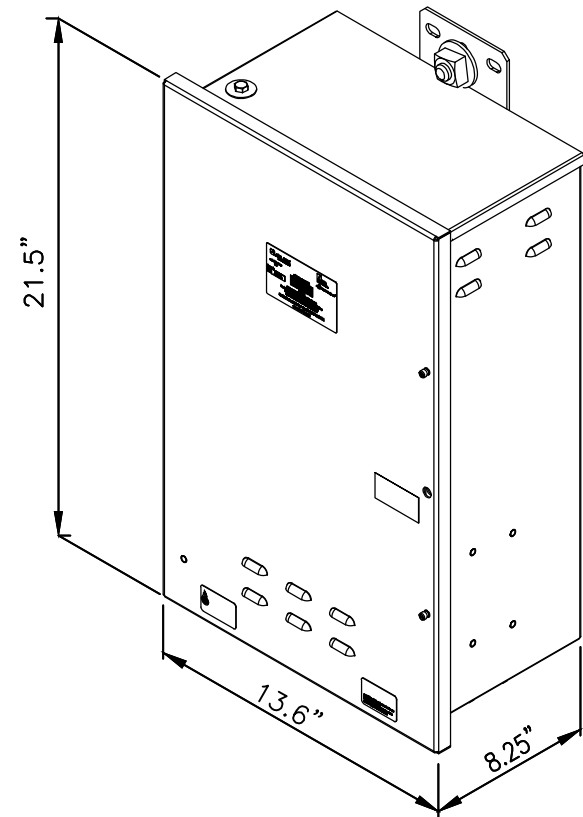
DETAIL U

- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

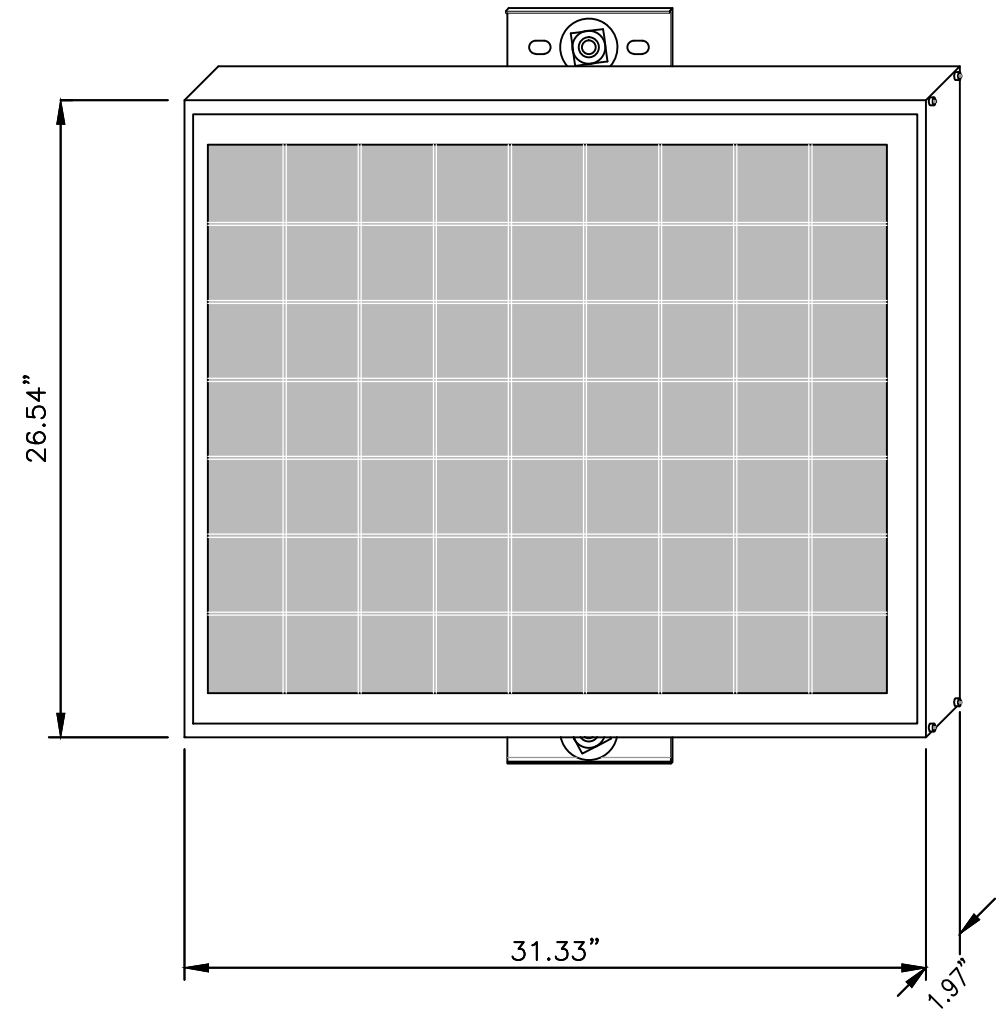
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TOLERANCES:	CHECKED				
FRACTIONAL ±	ENG APPR.				
ANGULAR: MACH ± BEND					
TWO PLACE DECIMAL ±					
THREE PLACE DECIMAL ±					
INTERPRET GEOMETRIC TOLERANCING PER:	QA				
MATERIAL	COMMENTS			SIZE DWG. NO.	REV
STEEL	PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.			B	A
FINISH	NA	NO SCALE	WEIGHT:		

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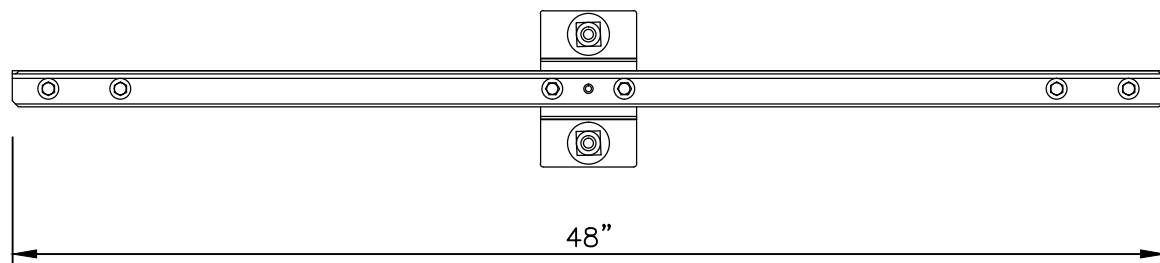
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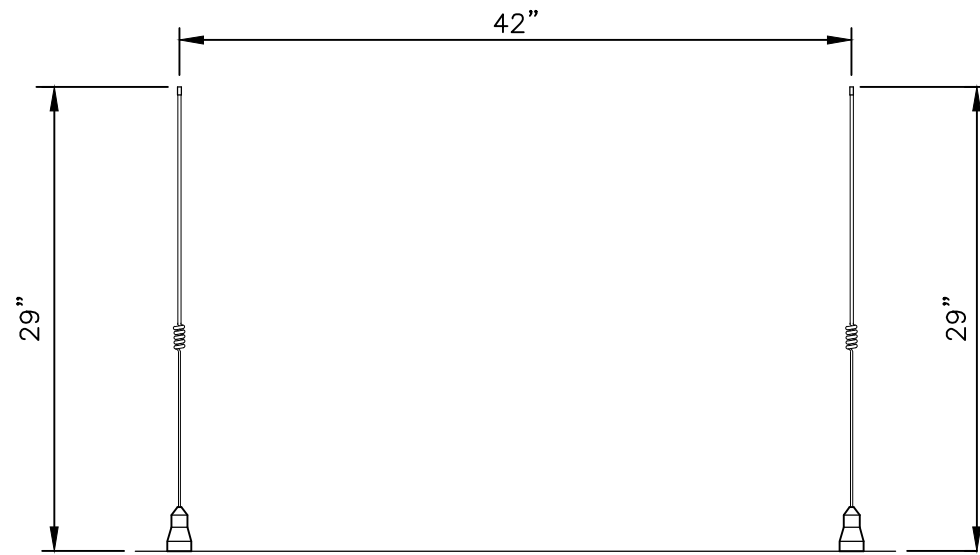
1 (D.C.U.) DATA COLLECTOR UNIT (55 LBS)



2 SOLAR PANEL (14.11 LBS)



3 ALUMINUM ANTENNA ARM



4 455-470 MHz ANTENNAS (WHIP)

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

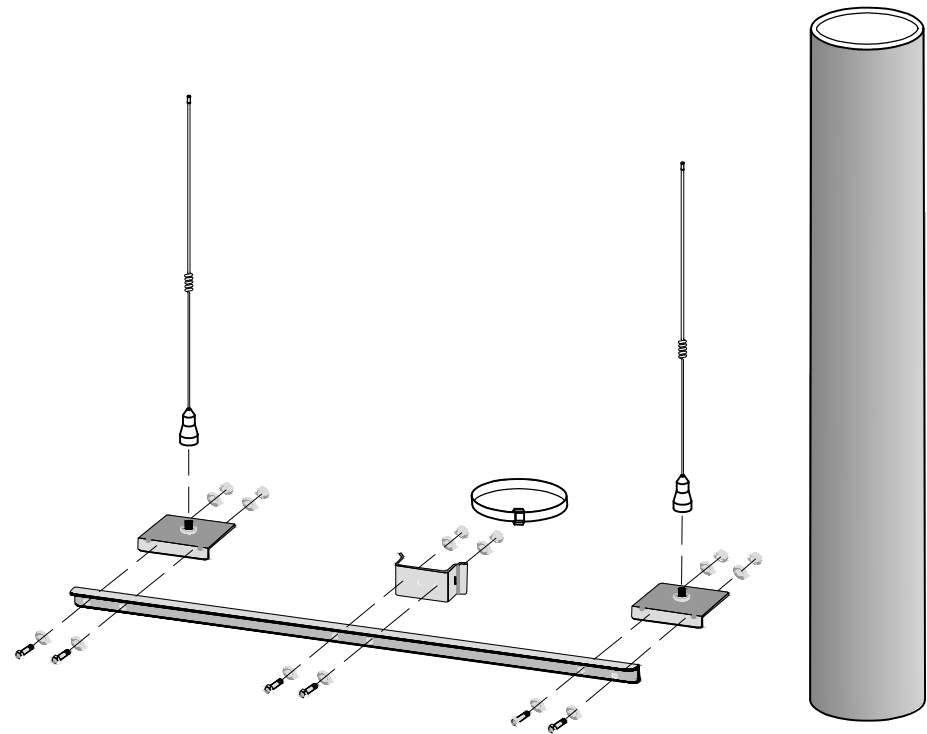
PROJECT INFORMATION:
31' STEEL POLE
EM210-900A370-PC-FP-HH-6" EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:
EQUIPMENT DETAILS

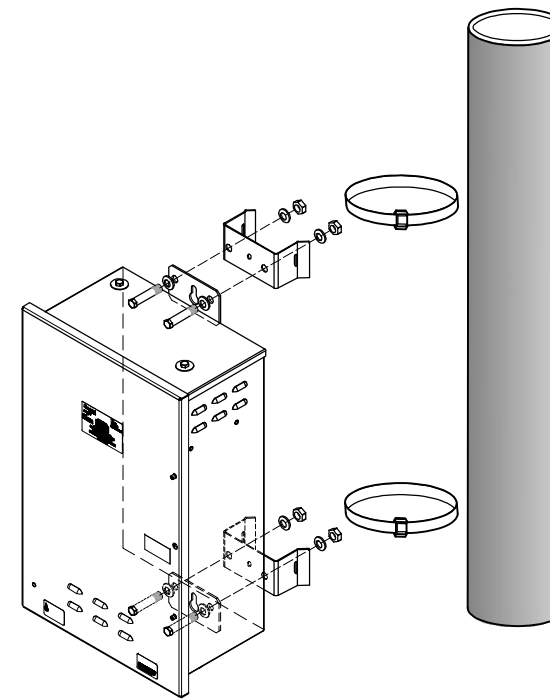
LICENSURE:

DESIGNER: J.M.
CAD DRAFTING: A.J. 05/25/18
CHECKED BY: J.M.
SCALE: AS SHOWN

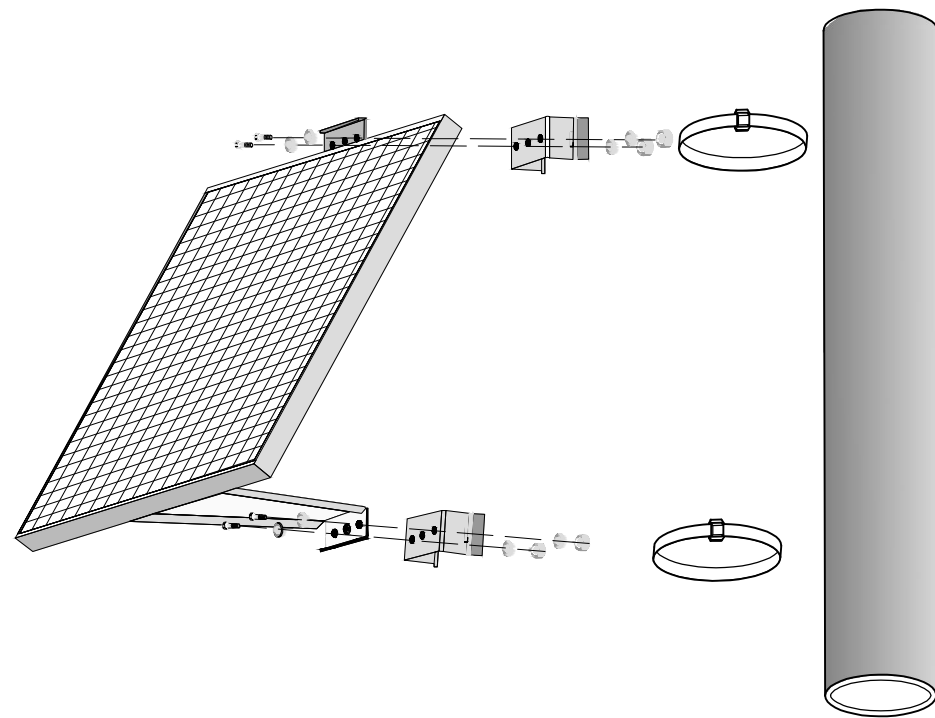
SHEET NUMBER: A-3	REVISION: A
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5 450 MHz ANTENNA INSTALLATION



6 (D.C.U.) DATA COLLECTOR UNIT INSTALLATION



7 SOLAR PANEL INSTALLATION

FIELD BULLETIN - INSTALLATION INSTRUCTIONS FOR DCU / SOLAR
PANEL / ANTENNAS MOUNTING HARDWARE FOR STEEL POLES

1. ENSURE TORQUE VALUE / MEASUREMENTS ARE RECORDED ON THE INSTALLATION QA INSPECTION SHEET AND AS-BUILT MARK-UPS.
2. BAND STRAPS ARE TO BE TIGHTENED TO BAND STRAP TOOL SETTING OF 25, PER BAND-IT TOOL GUIDELINES.
3. ASSIGNED SCG PM OR INSTALLATION CONTRACTOR SHALL TAKE PICTURES OF THE COMPLETED WORK, INCLUDING A PICTURE OF EACH BAND MOUNTING STRAPS.

8 BULLETIN

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PROJECT INFORMATION:

31' STEEL POLE
EM210-900A370-PC-FP-HH-6' EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:

MOUNTING
DETAILS

LICENSURE:

DATE:

DESIGNER: J.M.

CAD DRAFTING: A.J. 05/25/18

CHECKED BY: J.M.

SCALE: AS SHOWN

SHEET NUMBER: REVISION:

A-4

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LOS ANGELES, CA 90013

PROJECT INFORMATION:

31' STEEL POLE
EM210-900A370-PC-FP-HH-6' EMB-1" AH
SOLAR, EMBEDDED

SHEET TITLE:

MATERIALS LIST

LICENSURE:

DATE:

DESIGNER: J.M.

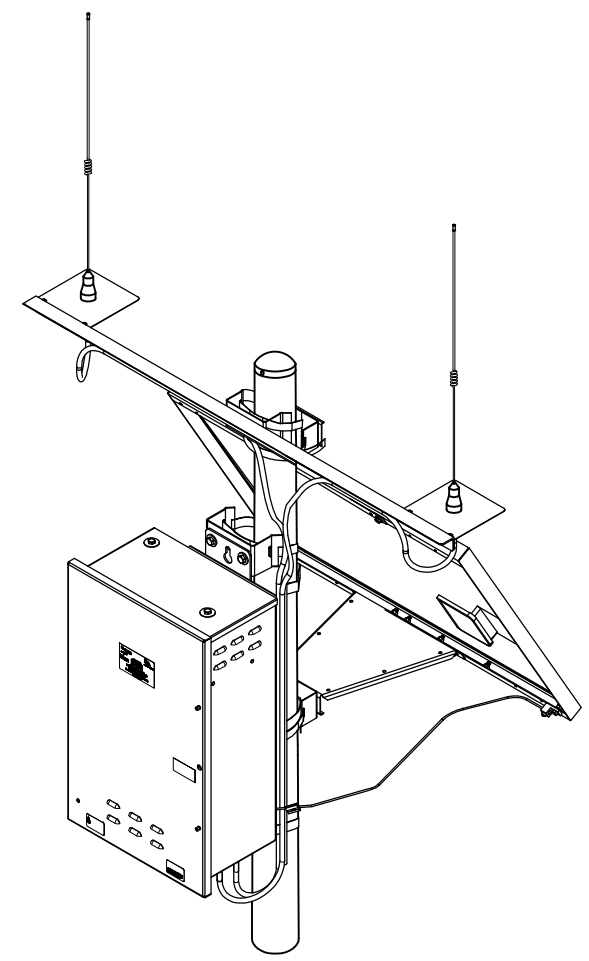
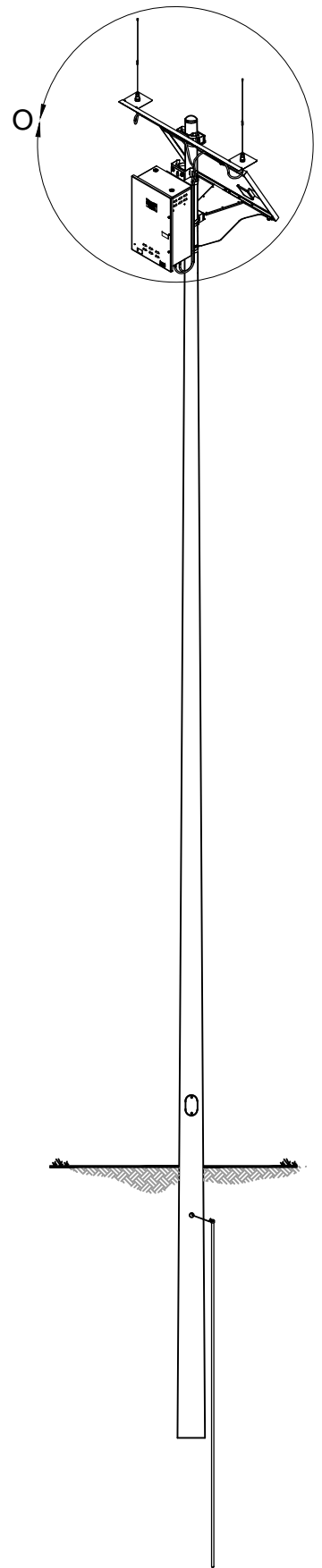
CAD DRAFTING: A.J. 05/25/18

CHECKED BY: J.M.

SCALE: AS SHOWN

SHEET NUMBER: REVISION:

A-5 **A**



DETAIL O

MATERIALS LIST			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	11700-CELL-SOL-SCG	DCU, CELL, SOLAR PWR, SCG	1
2	042-9975	BATTERY, 26 AMP HOUR, DCU 9975	1
3	109-9975D	UHF ANT BASE ASSY	2
**4	073-0010	455-470MHz ANT,DCUII	2
5	056-9975M	ANTENNA BOOM, 4 FT	1
6	109-9975F65	65W SOL PANEL W/ MNTG	1
7	109-11700-02	MTG KIT, METAL POLE, SOLAR	1
	067-5373C	BANDING STRAP 3/4" 201, SS	5
	067-5373G	BANDING BRACKET	5
	067-5373D	BANDING CLAMP 3/4 SS 201,UB256	5
	069-561832LS	5/16-18 X 1", HEX HEAD BOLT,SS	10
	069-3305	5/16 F/WASH METAL,SS	10
	069-3304	5/16" SPR LW, .32 ID X .59 OD, 18-8 SS	10
	069-3306	5/16-18 HEX NUT SS	10
	070-2570-10	10' LOW LOSS N-M TO N-M	1
*8	098-0048	GROUND ROD, 5/8" X 8'	1
*9	098-0049	GROUNDING CLAMP	1
*10	071-1509	GROUNDING WIRE 8 GA, CU, SOLID	1
*12	098-0050	GROUNDING WIRE SPLICE	1
*13	098-0054	CABLE MGMT. BRACKETS, (TRAP BOX)	AS NEEDED
*14	TBD	SNAP-IN CLAMPS	AS NEEDED
*15	098-0056	LMR-400 2 HOLE BOOM CLAMP	AS NEEDED
*16	098-0057	LMR-400 4 HOLE BOOM CLAMP	AS NEEDED
*17	084-0119	FUSION TAPE	AS NEEDED
*18	TCP-360	1/2" CABLE SPACERS	2

*CONTRACTOR SUPPLIED MATERIALS

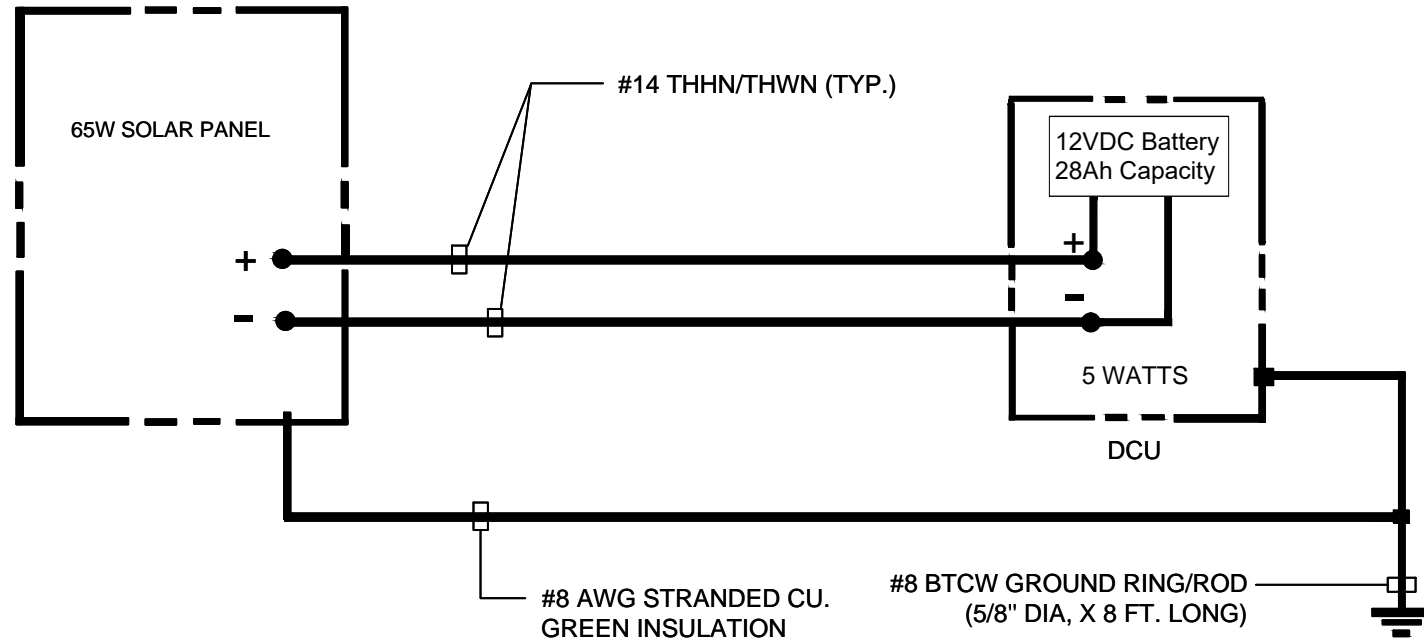
- NOTES:
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UNLESS OTHERWISE SPECIFIED	DATE	TITLE:	
DIMENSIONS AS SHOWN	DRAWN	TYPICAL INSTALLATION STEEL POLE, SOLAR	
TOLERANCES:	CHECKED		
FRACTIONAL ±	ENG APPR.		
ANGULAR: MACH ± BEND	WFG APPR.		
TWO PLACE DECIMAL ±	QA		
THREE PLACE DECIMAL ±	COMMENTS		
INTERPRET GEOMETRIC TOLERANCING PER:	PROPRIETARY AND CONFIDENTIAL	SIZE DWG. NO.	REV
MATERIAL	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.	B	A
FINISH		NO SCALE	WEIGHT:

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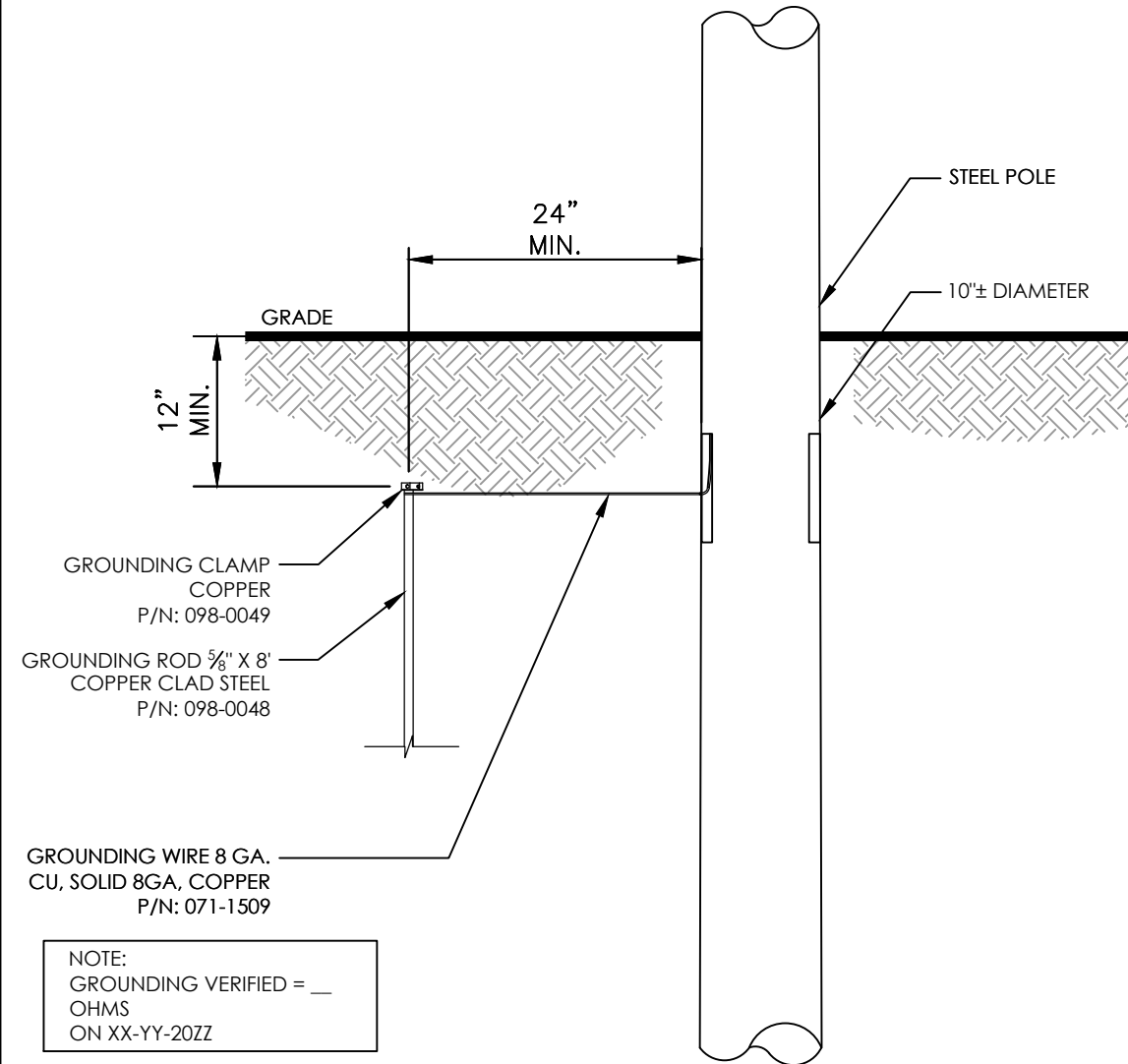
NOTES:

1. LOAD AND VOLTAGE DROP CALCULATIONS MUST BE PERFORMED FOR SPECIFIC SITE DESIGN.
2. AERATE CONDUCTORS AS REQUIRED BY NEC.
3. ALL CONDUCTORS SHALL BE INSTALLED IN AN APPROVED RACEWAY.
4. ALL CONDUCTORS SHALL BE COPPER AND THHN/THWN RATED INSULATION
5. ALL OUTDOOR INSTALLATION SHALL BE IN AN OUTDOOR RATED ENCLOSURE.

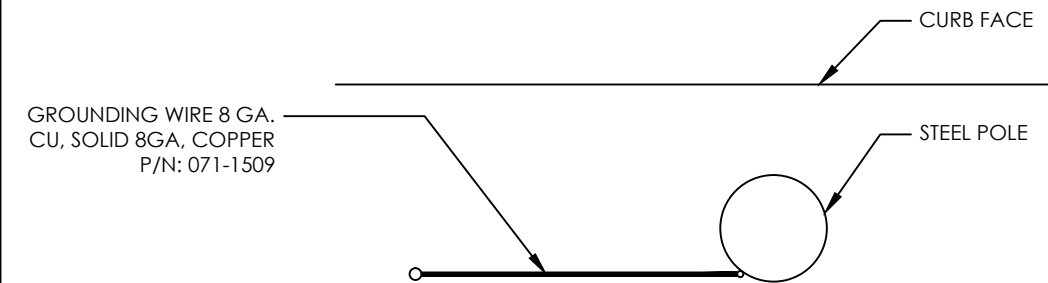


SOLAR POWER SOURCE

GROUND RESISTANCES SHALL BE 25 OHMS OR LESS. PROVIDE THE NECESSARY GROUND ROD QUANTITIES TO ACHIEVE THE REQUIRED GROUND RESISTANCE PER G.O.95 RULE 21.4 .



ELEVATION
SCALE: 3/4" = 1'-0"



PLAN VIEW
SCALE: 3/4" = 1'-0"

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A	05/25/18	ADONIS JAVIER	A.J.

PROPRIETARY INFORMATION:
THE INFORMATION CONTAINED IN THIS SET OF CONSTRUCTION DOCUMENTS IS PROPRIETARY BY NATURE. ANY USE OR DISCLOSURE OTHER THAN THAT WHICH RELATES TO THE GAS COMPANY IS STRICTLY PROHIBITED.



ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
31' STEEL POLE
EM210-900A370-PC-FP-HH-6' EMB-1" AH
SOLAR, EMBEDDED

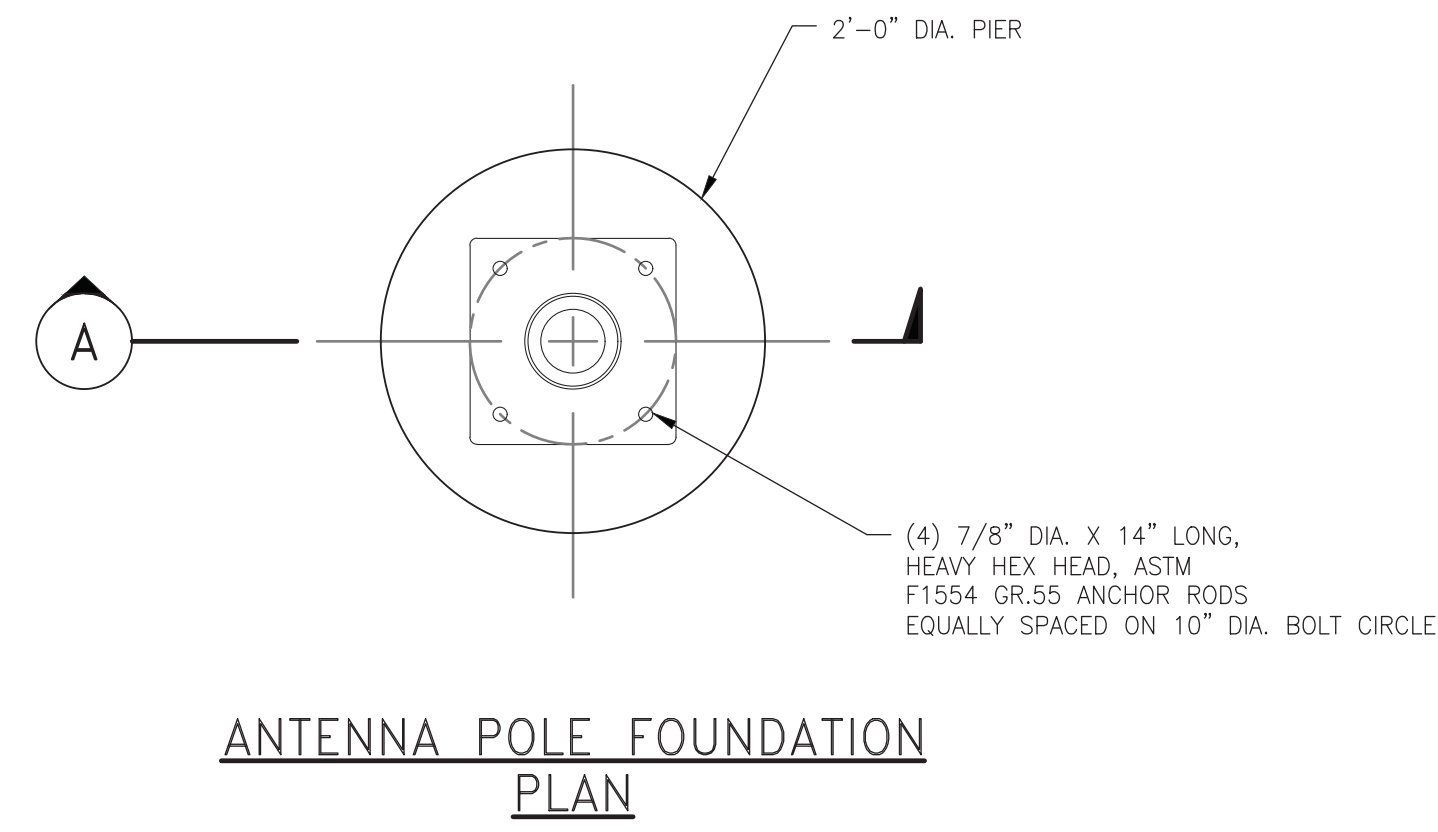
SHEET TITLE:
ELECTRICAL DIAGRAM

LICENSURE:

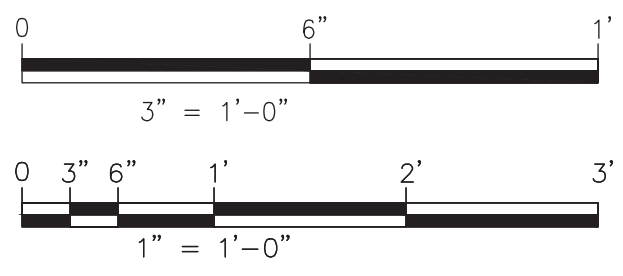
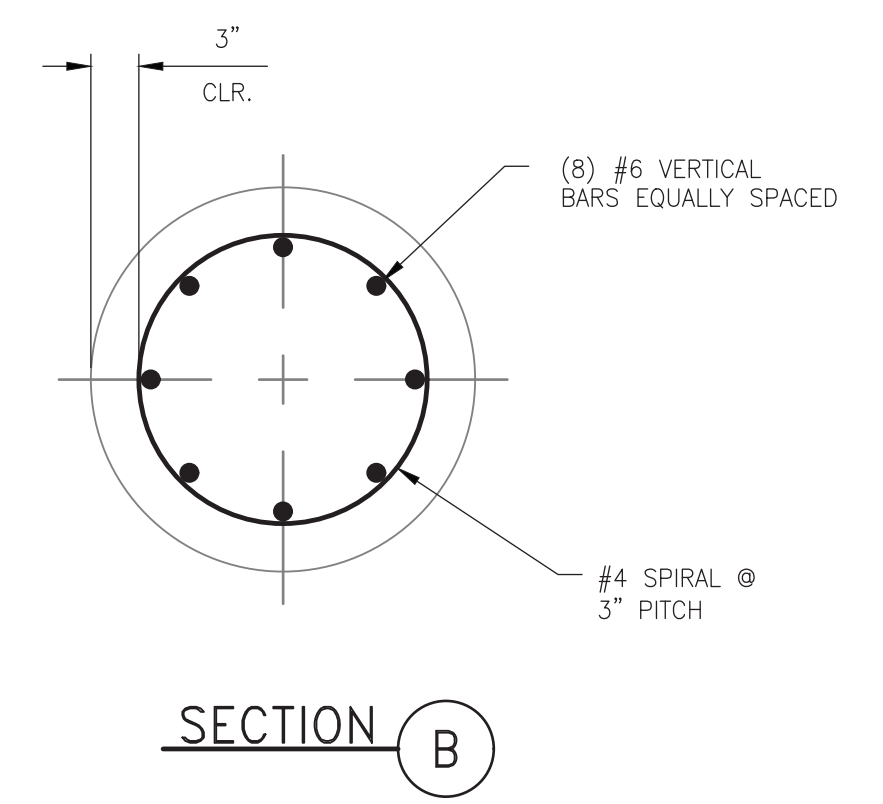
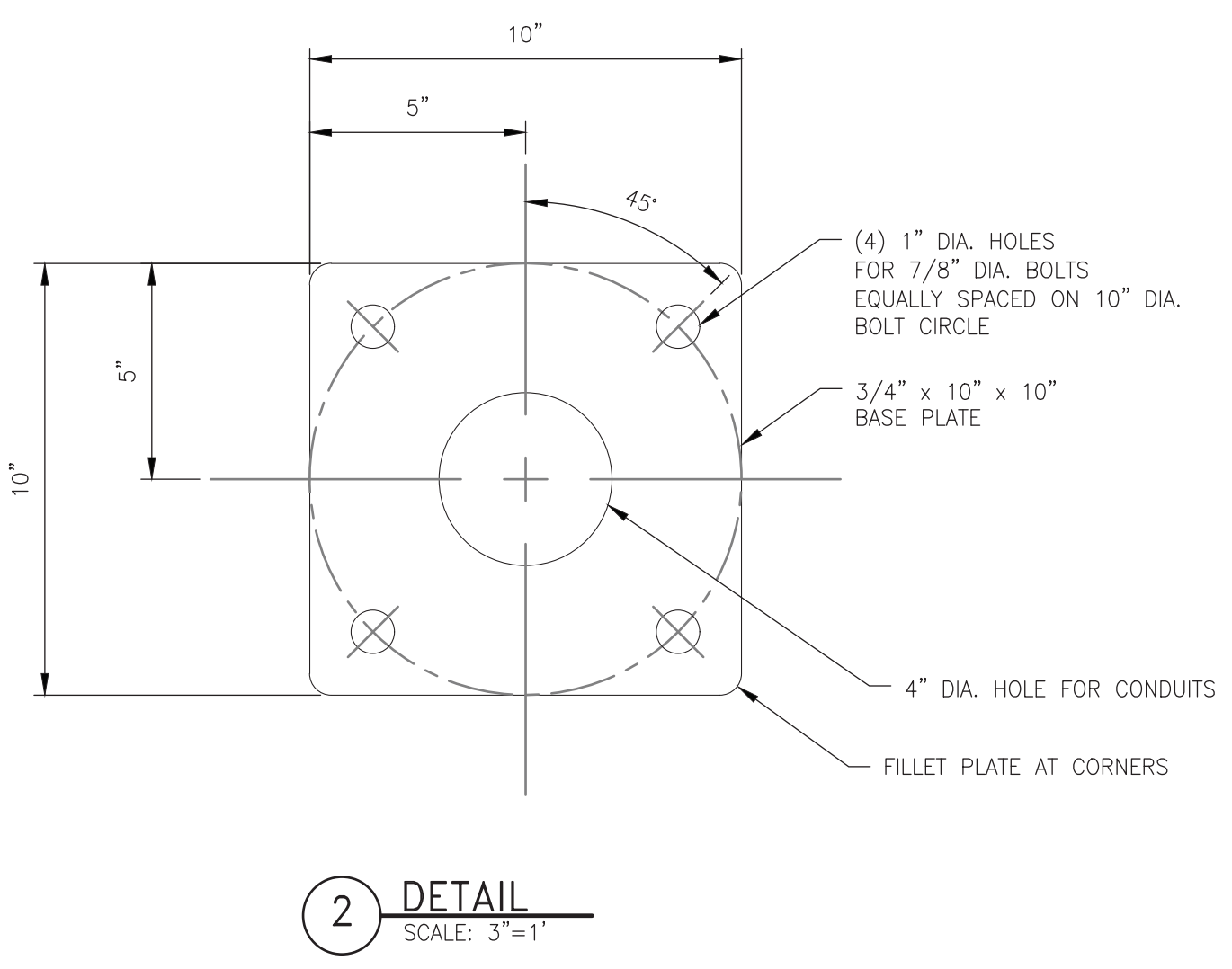
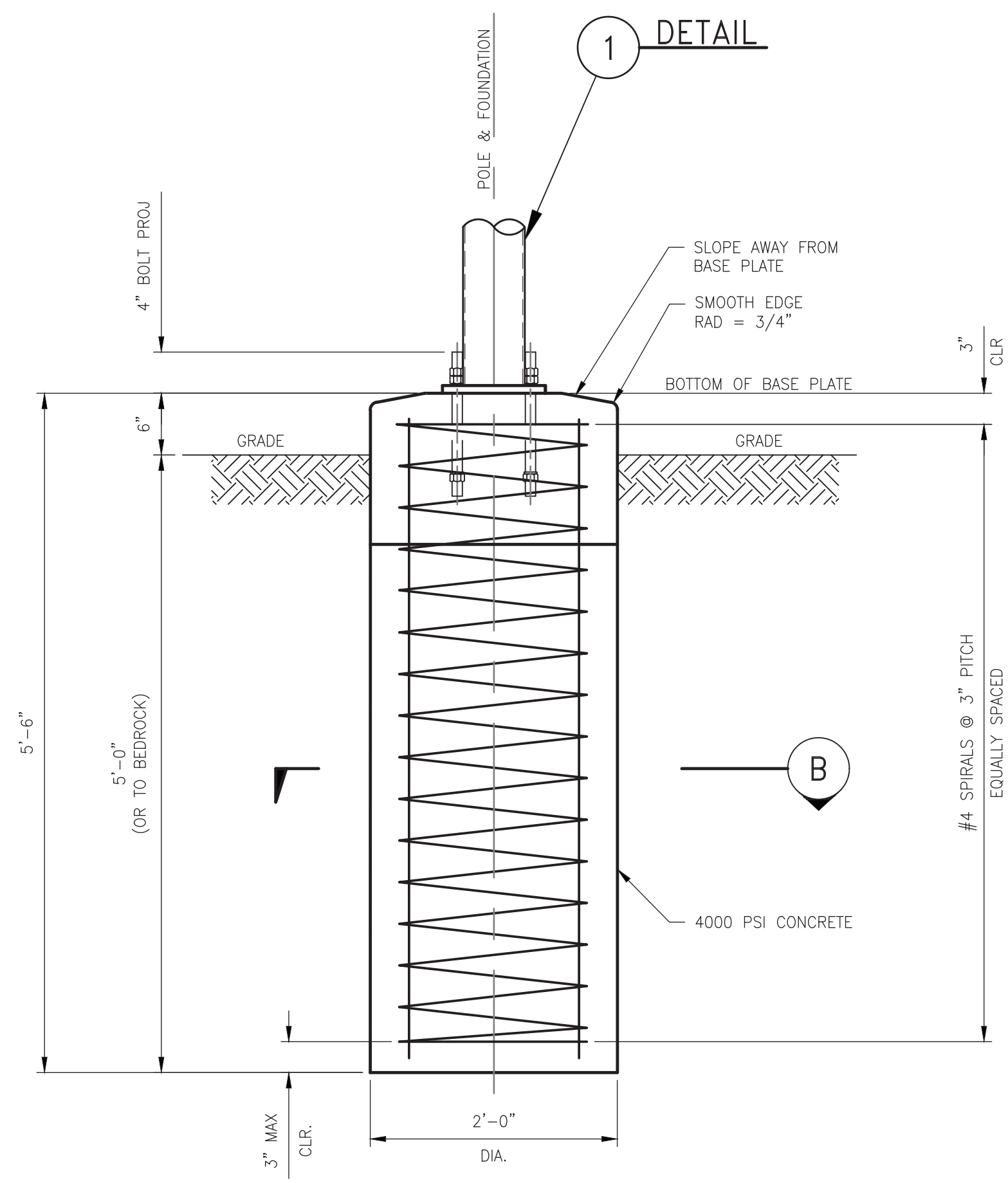
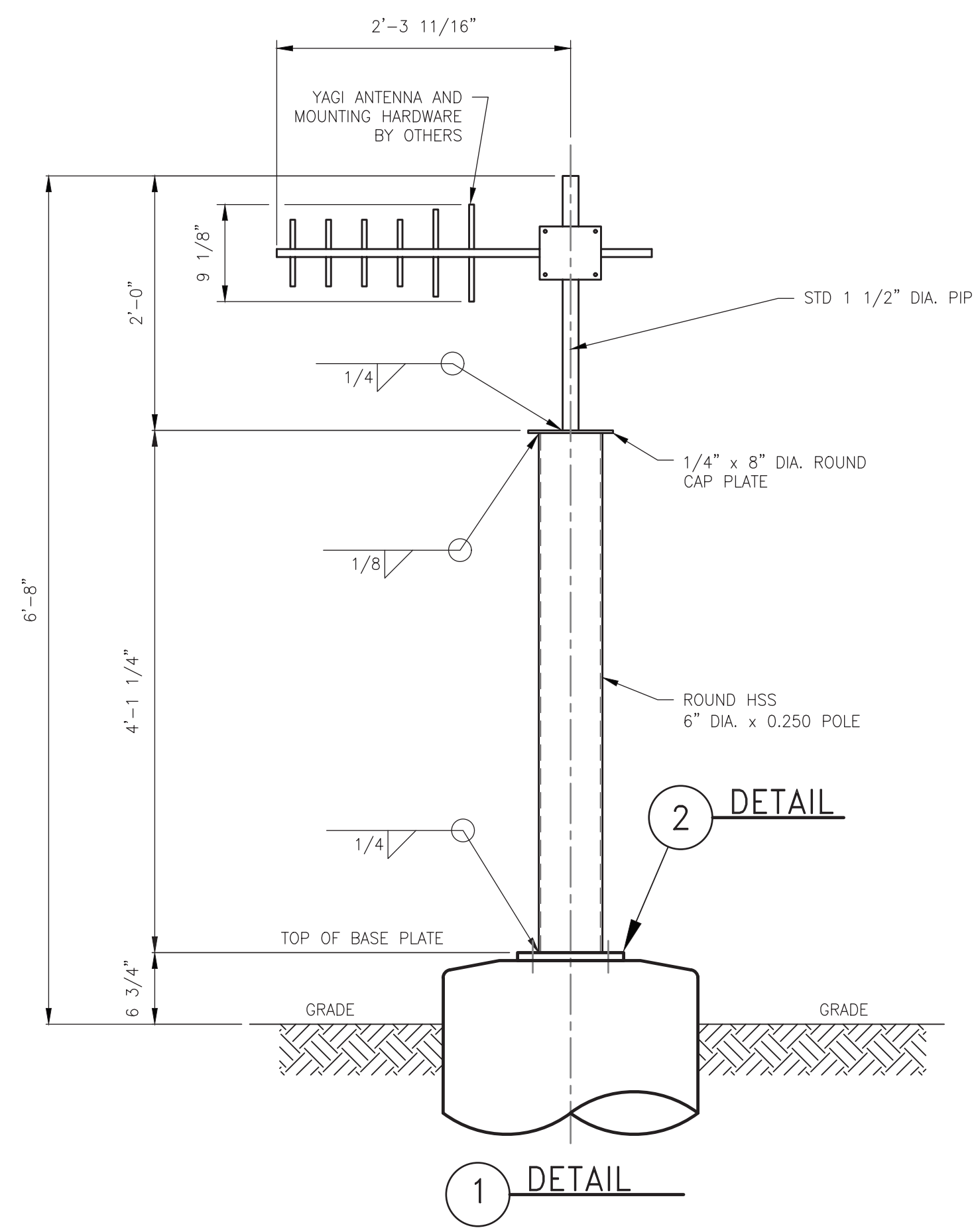
DESIGNER: J.M.
CAD DRAFTING: A.J. 05/25/18
CHECKED BY: J.M.

SCALE: AS SHOWN
SHEET NUMBER: **E-1**
REVISION: **A**

DRAWING NUMBER	REFERENCE DRAWING DESCRIPTION
33091-1001-D-PIP	DRAWING LIST



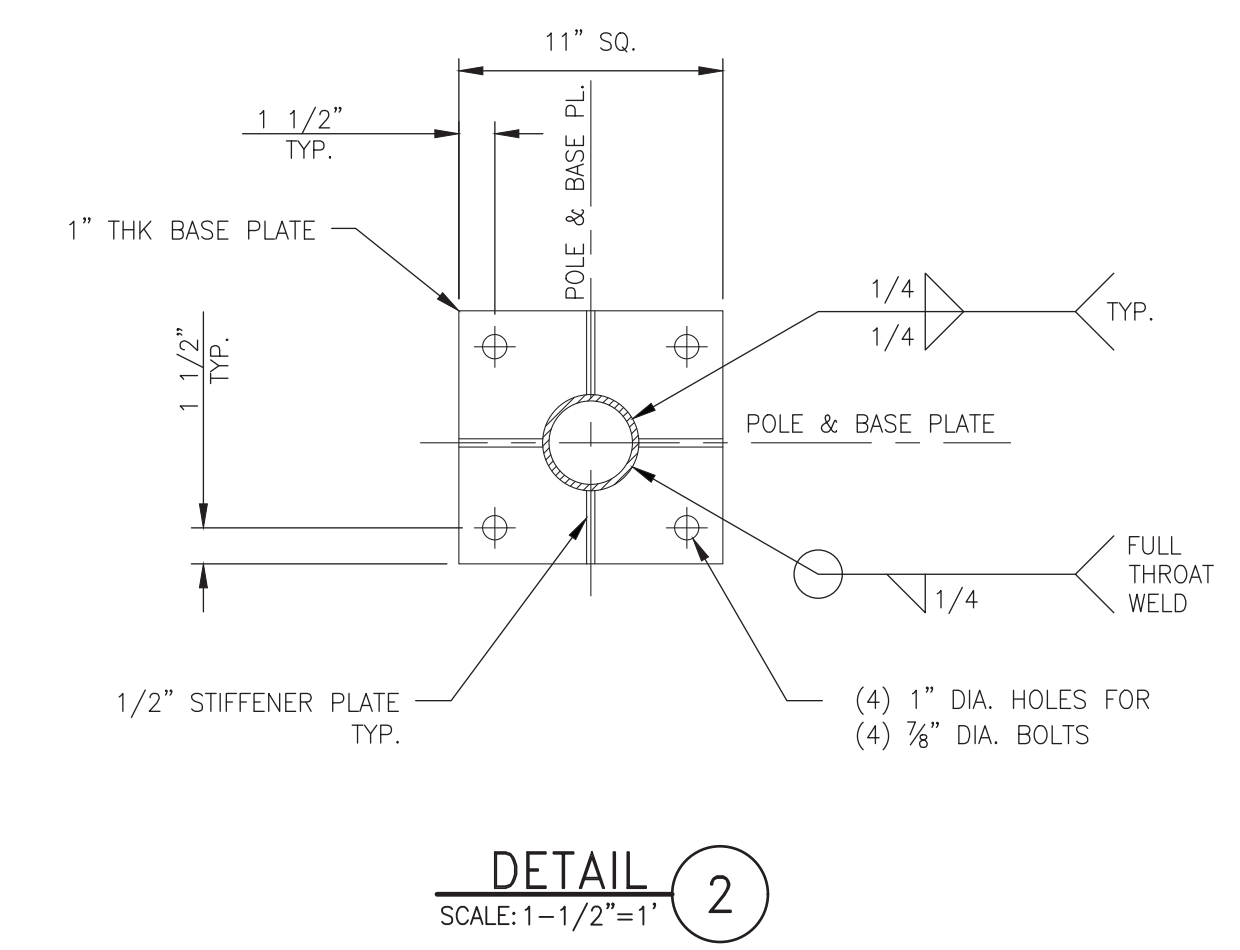
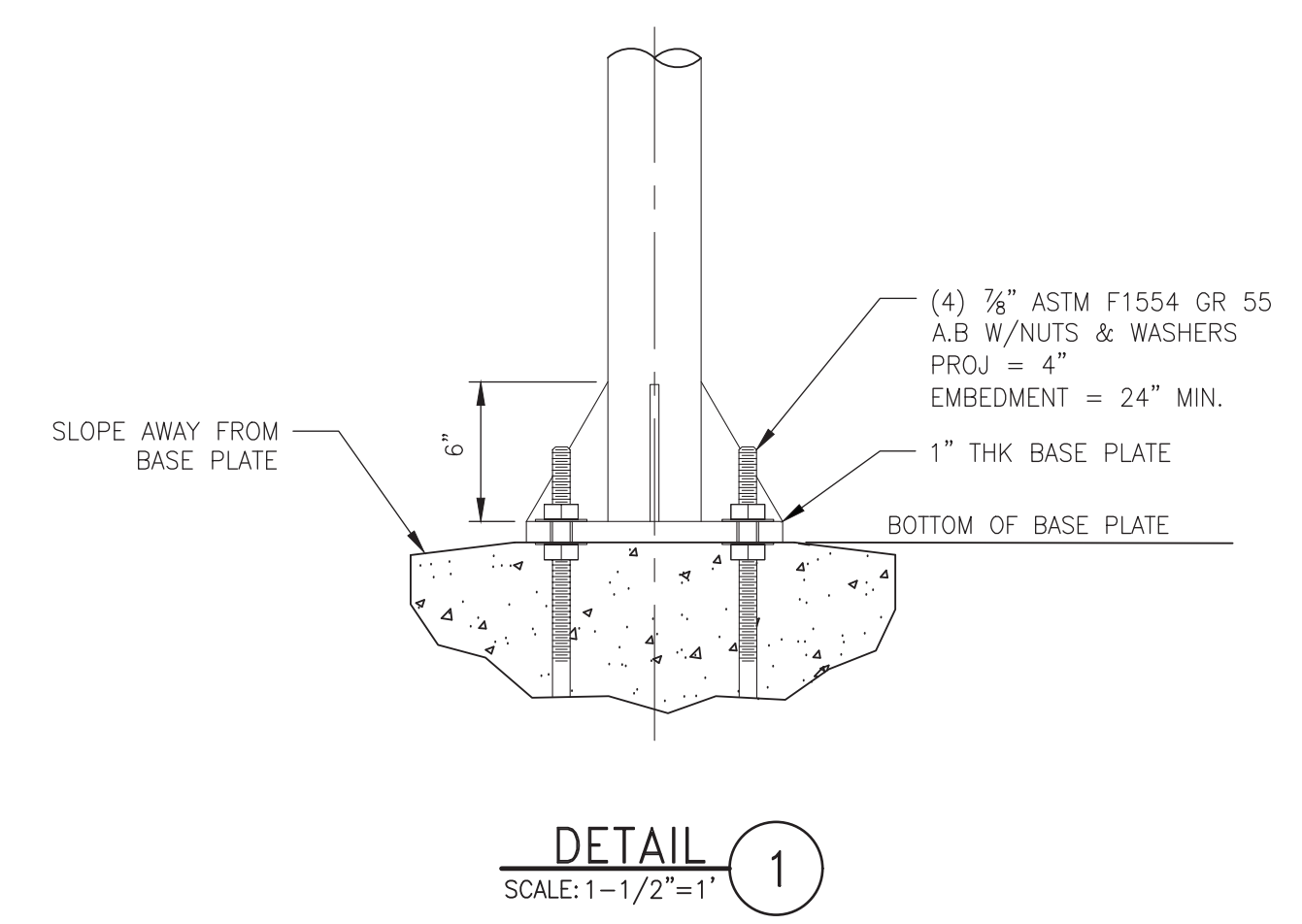
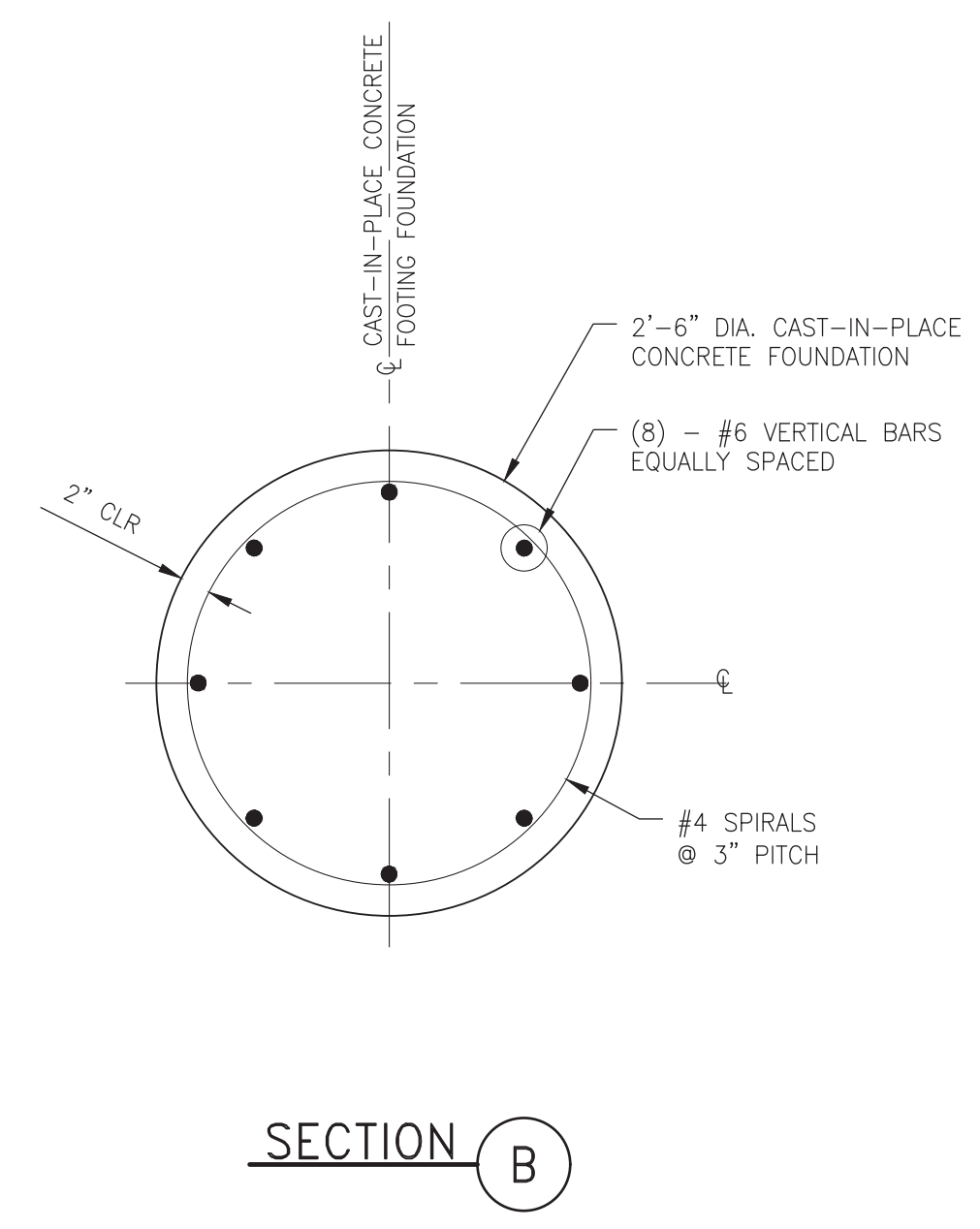
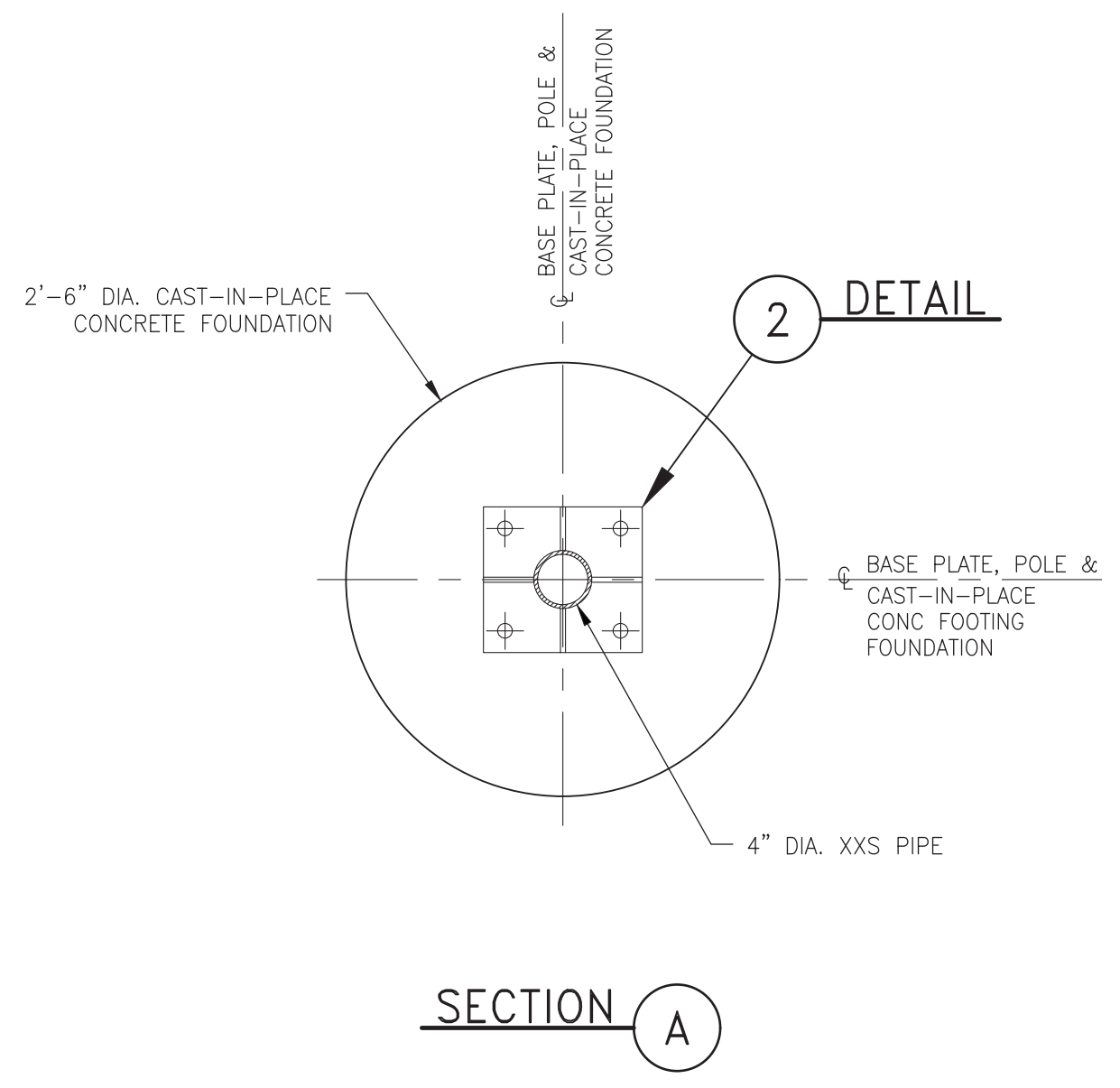
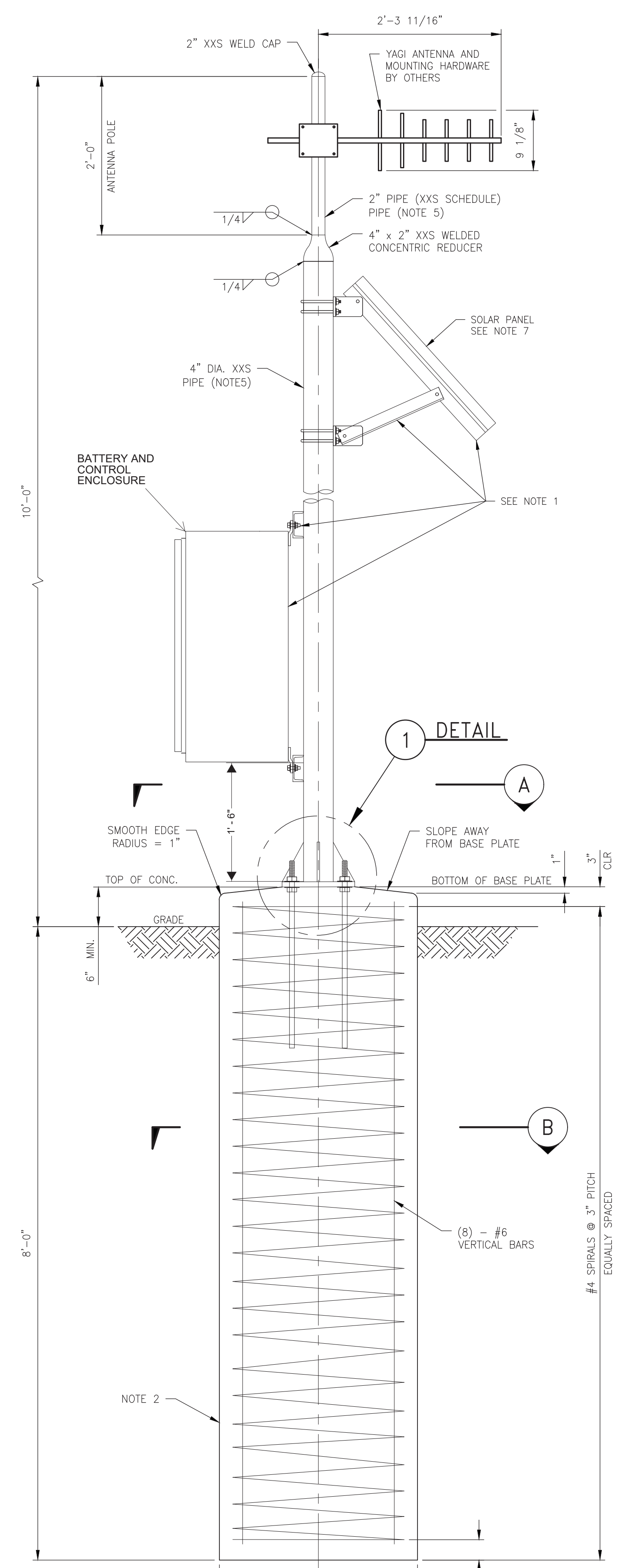
NOTES:
1. SEE DWG. 33091-4001-D-STR FOR STRUCTURAL NOTES.



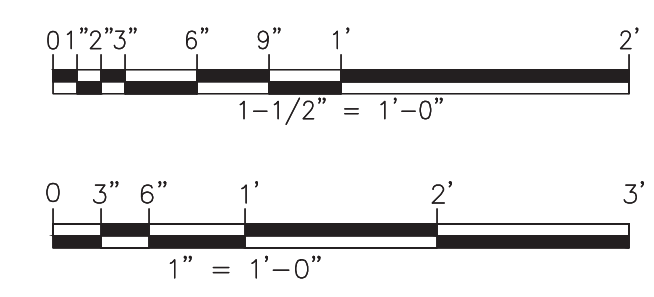
ISSUED FOR BID
OCTOBER 10, 2019

EN Engineering		DESIGNED: M. ROHDER 08-03-17			L-1005 VALVE AUTOMATION MLV 4 1005-13.20-0 ANTENNA POLE FOUNDATION PLAN SECTIONS & DETAILS						
626 WILSHIRE BOULEVARD, SUITE 1020 LOS ANGELES, CA 90017 TEL. 213.725.5052 WWW.ENENGINEERING.COM		DRAWN: S. RUIZ 08-03-17									
C	XX-XX-18	XX	LFS	MM	BW	*	ISSUED FOR BID	92082.001	PROJ. APPR: M. MORIKAWA	08-08-17	
B	02-21-18	GK	LFS	MM	SJ	*	ISSUED FOR 90% REVIEW	91125.001	SOG. ENG. APPR: R. WITKOWSKI	08-08-17	
A	08-10-17	SR	AM	MM	ES	*	ISSUED FOR PERMIT	91125.001	ENG. FILE NO: *	08-08-17	
REV	DATE	DRWN	CHECKED	PRJ. APPR	SOG. APPR	ENG. FILE NO.	DESCRIPTION	WCA	WCA: 91125.001		
								DWG. CLASS: 26	DWG. DIST: 100	DRAWING NUMBER	33091-4004-D-STR
								SCALE: 1"=1'	REV	C	

DRAWING NUMBER	REFERENCE DRAWING DESCRIPTION
33091-1001-D-PIP	DRAWING LIST



- NOTES:
1. THE CONTRACTOR MUST VERIFY ALL MEASUREMENTS AFFECTING HIS WORK AND ASSUME RESPONSIBILITY FOR THEIR CORRECTNESS.
 2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH, $f'_c = 4000$ PSI.
 3. SEE DWG. 33091-4001-D-STR FOR STRUCTURAL NOTES.
 4. STRUCTURAL OBSERVATIONS AND SPECIAL INSPECTIONS TO BE PERFORMED PER CBC 2016.
 5. ALL PIPE SHALL BE HOT DIPPED GALVANIZED.
 6. MAX. EQUIPMENT WEIGHT = 250 LBS
 7. SOLAR PANEL TO BE EXCLUDED FROM THIS INSTALLATION

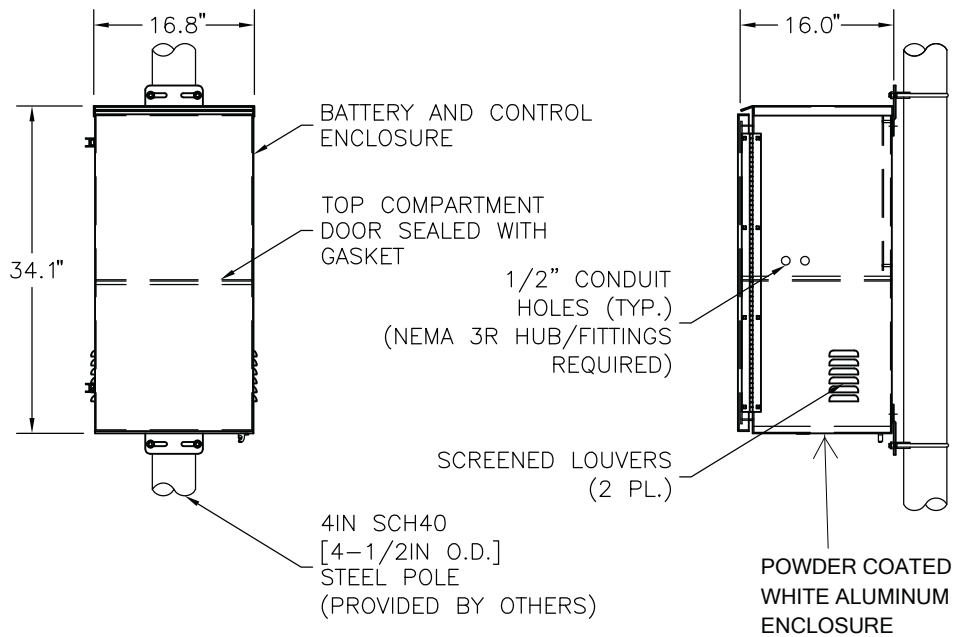


REPEATER POLE & FOUNDATION
ELEVATION

SEE DWG. 33091-4101-D-STR FOR FOUNDATION LOCATION PLAN

ISSUED FOR
BID
OCTOBER 10, 2019

		DESIGNED: M. ROHDER 08-03-17 DRAWN: J. GARCIA 08-03-17 CHECKED: A. MARTINEZ 08-08-17 PROJ. APPR: M. MORIKAWA 08-08-17 SOG. ENG. APPR: R. WITKOWSKI 08-08-17				L-1005 VALVE AUTOMATION ORTEGA RIDGE REPEATER SITE REPEATER POLE FOUNDATION SECTIONS & DETAILS									
626 WILSHIRE BOULEVARD, SUITE 1020 LOS ANGELES, CA 90017 TEL. 213.725.5052 WWW.ENENGINEERING.COM		BY: M. ROHDER DATE: 08-03-17													
REV	DATE	DRWN	CHECKED	PRJ. APPR	SOG. APPR	ENG. FILE NO.	DESCRIPTION	WGA	WGA: 92082.001	DWG. CLASS: 26	DWG. DIST: 100	DRAWING NUMBER	33091-4102-D-STR	REV	C



OWNERSHIP

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SITE LAYOUT		MAPPS 190-99-24-UL	
UNITS		UNLESS OTHERWISE SPECIFIED: PRIMARY UNITS ARE: INCHES SECONDARY UNITS ARE: [mm]	
REVISIONS			
REV	REVISED BY	DATE	
1	SCG	10/15/19	
MISC			
APPROVALS		NAME	DATE
		DRAWN LINGO	20.SEP.17
		APPROVED E. RIVAS	20.SEP.17
DRAWING NUMBER		SIZE	
SD50-0454-SES		A	
B.O.M. NUMBER			
SB50-0454-SES			
SCALE	SHEET		OF
N/A	2		3



CITY:
 COUNTY:
 JURISDICTION:
 SITE NUMBER/ID:
 SITE TYPE:

(E) 28' A.G.L. AMERON POLE
 1C128, AC POWER

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
		REVISED 06/14/18	

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ADVANCED METER
 THE GAS COMPANY TOWER
 555 W. 5TH STREET
 LOS ANGELES, CA 90013

PROJECT INFORMATION:
 SOUTHERN CALIFORNIA EDISON
28' CONCRETE
 AC POLE ATTACHMENT
 PHOTO CELL TAP

SHEET TITLE:
TITLE SHEET

LICENSURE:

DESIGNER: J.M.
 CAD DRAFTING: A.J.
 CHECKED BY: J.M.
 SCALE: AS SHOWN

SHEET NUMBER: **T-1** REVISION: **A**

PROJECT SUMMARY:

SITE ADDRESS:
 VARIOUS

APPLICANT:
 SOUTHERN CALIFORNIA GAS CO.
 555 W. 5TH ST., 17TH FLOOR, LOS ANGELES, CA 90013
 REPRESENTATIVE: OLIVIA GUTIERREZ
 PHONE: (213) 244-2201

PROPERTY OWNER:

PUBLIC RIGHT OF WAY

LATITUDE: XX.YYYYYYYY

LONGITUDE: -YYY.XXXXXXXX

OCCUPANCY CLASSIFICATION: UNMANNED UTILITY WIRELESS FACILITY

ZONING CLASSIFICATION:

CONSTRUCTION TYPE:

PROJECT DESCRIPTION:
 SOUTHERN CALIFORNIA GAS CO. PROPOSES TO INSTALL ACLARA EQUIPMENT MOUNTED 28'-0" ABOVE GROUND LEVEL ON A EXISTING 28'-0" A.G.L. CONCRETE UTILITY POLE.

SHEET INDEX:

SHEET NO:	DESCRIPTION:
T-1	TITLE SHEET
T-2	GENERAL NOTES
A-1	ELEVATIONS
A-2	DCU BOX DETAILS
A-3	MATERIALS LIST
E-1	ELECTRICAL DIAGRAM

CONSULTING TEAM:

SAG/ZONING/PERMITTING: SOUTHERN CALIFORNIA GAS CO.
 OLIVIA GUTIERREZ
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 PHONE: (213) 244-2201

CONSTRUCTION PROJECT MANAGER: SOUTHERN CALIFORNIA GAS CO.
 OLIVIA GUTIERREZ
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 PHONE: (213) 244-2201

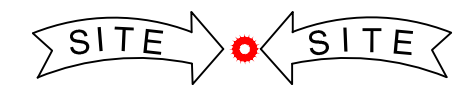
CONTRACTOR: AM ORTEGA CONSTRUCTION
 CONTACT: SEAN RAMOS
 224 N. SHERMAN AVENUE,
 CORONA, CA 92882
 PHONE: (951) 360-1352

NETWORK CONSTRUCTION ENGINEER: SOUTHERN CALIFORNIA GAS CO.
 JUAN MALDONADO
 555 W. 5TH ST., 17TH FLOOR
 LOS ANGELES, CA 90013
 (213) 244-2324

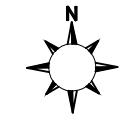
APPROVALS:

THE FOLLOWING PARTIES HEREBY APPROVE AND ACCEPT THESE DOCUMENTS AND AUTHORIZE THE CONTRACTOR TO PROCEED WITH THE CONSTRUCTION DESCRIBED HEREIN. ALL CONSTRUCTION DOCUMENTS ARE SUBJECT TO REVIEW BY THE LOCAL BUILDING DEPARTMENT AND ANY CHANGES AND MODIFICATIONS THEY MAY IMPOSE.

	PRINT NAME	SIGNATURE	DATE
LANDLORD	<u>PUBLIC R.O.W.</u>		
PRECON. MGR			
DEVELOP. MGR			
CONST. MGR			
PROJECT. MGR			
SR. RF ENGINEER			
RF ENGINEER			
OPERATIONS			
SAC REP.			



VICINITY MAP
 NOT TO SCALE



PERMIT #:

REVISION HISTORY

REVISION A: INITIAL DESIGN

APPLICABLE CODES:

- 2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
- 2015 CITY CONSTRUCTION STANDARD DETAILS
- 2016 CALIFORNIA BUILDING CODE
- ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
- 2018 UNIFORM MECHANICAL CODE
- 2017 NATIONAL ELECTRIC CODE
- CITY/COUNTY ORDINANCES

GENERAL NOTES AND CONDITIONS

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
		REVISED 06/14/18	
A			

INTENT

- THIS CONSTRUCTION DRAWINGS DESCRIBE THE WORK TO BE DONE AND THE MATERIALS TO BE FURNISHED FOR CONSTRUCTION.
- THE INTENTION OF THE DOCUMENT IS TO INCLUDE ALL LABOR AND MATERIALS REASONABLY NECESSARY FOR THE PROPER EXECUTION AND COMPLETION OF THE WORK AS STIPULATED IN THE CONTRACT.
- MINOR DEVIATIONS FROM THE DESIGN LAYOUT ARE ANTICIPATED AND SHALL BE CONSIDERED AS PART OF THE WORK. NO CHANGES THAT ALTER THE CHARACTER OF THE WORK WILL BE MADE OR PERMITTED BY THE OWNER WITHOUT ISSUING A CHANGE ORDER.
- THE DRAWINGS ARE GRAPHIC AND PICTORIAL PORTIONS OF THE CONTRACT DOCUMENTS SHOWING THE DESIGN, LOCATION AND DIMENSIONS OF THE WORK, GENERALLY INCLUDING PLANS, ELEVATIONS, SECTIONS, DETAILS, SCHEDULES AND DIAGRAMS.
- IN CASE OF INCONSISTENCY BETWEEN OTHER PARTS OF THE CONTRACT, THE CONTRACTOR SHALL PERFORM THE WORK IN ACCORDANCE WITH THE OWNER'S INTERPRETATION.
- WHERE DRAWINGS REFER TO STANDARD SPECIFICATIONS, THE LATEST OR MOST RECENT EDITION SHALL APPLY.

CHANGE ORDER PROCEDURE

- CHANGE ORDER MAY BE INITIATED BY THE OWNER AND/OR THE CONTRACTOR INVOLVED. THE CONTRACTOR, UPON VERBAL REQUEST FROM THE OWNER SHALL PREPARE A WRITTEN PROPOSAL DESCRIBING THE CHANGE IN WORK OR MATERIALS AND ANY CHANGES IN THE CONTRACT AMOUNT AND PRESENT TO THE OWNER WITHIN 72 HOURS FOR APPROVAL. SUBMIT REQUESTS FOR SUBSTITUTIONS IN THE FORM AND IN ACCORDANCE WITH PROCEDURES REQUIRED FOR CHANGE ORDER PROPOSALS. ANY CHANGES IN THE SCOPE OF WORK OR MATERIALS WHICH ARE PERFORMED BY THE CONTRACTOR WITHOUT A WRITTEN CHANGE ORDER AS DESCRIBED AND APPROVED BY THE OWNER SHALL PLACE FULL RESPONSIBILITY OF THESE ACTIONS ON THE CONTRACTOR.

CODE COMPLIANCE

- ALL WORK SHALL BE IN ACCORDANCE WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS. THESE SHALL INCLUDE BUT NOT BE LIMITED TO THE LATEST VERSION OF THE FOLLOWING:
 - 2015 GREENBOOK STANDARD SPECS. FOR PUBLIC WORKS CONSTRUCTION
 - 2015 CITY CONSTRUCTION STANDARD DETAILS
 - 2016 CALIFORNIA BUILDING CODE
 - 2017 NATIONAL ELECTRIC CODE
 - 2018 UNIFORM MECHANICAL CODE
 - ANSI/TIA/EIA-222-F LIFE SAFETY CODE NFPA-101
 - CITY AND COUNTY ORDINANCES

ADMINISTRATION

- BEFORE THE COMMENCEMENT OF ANY WORK, THE CONTRACTOR WILL ASSIGN A PROJECT MANAGER WHO WILL ACT AS A SINGLE POINT OF CONTACT FOR ALL PERSONNEL INVOLVED IN THIS PROJECT. THIS PROJECT MANAGER WILL BE DEVELOPING A MASTER SCHEDULE FOR THE PROJECT WHICH WILL BE SUBMITTED TO THE OWNER PRIOR TO THE COMMENCEMENT OF ANY WORK.
- SUBMIT A BAR TYPE PROGRESS CHART NOT MORE THAN THREE (3) DAYS AFTER THE DATE ESTABLISHED FOR COMMENCEMENT OF THE WORK ON THE SCHEDULE, INDICATING A TIME BAR FOR EACH MAJOR CATEGORY OF WORK TO BE PERFORMED AT THE SITE, PROPERLY SEQUENCED AND COORDINATED WITH OTHER ELEMENTS OF WORK AND SHOWING COMPLETION OF THE WORK SUFFICIENTLY IN ADVANCE OF THE DATE ESTABLISHED FOR SUBSTANTIAL COMPLETION OF THE SITE.
- PRIOR TO COMMENCING CONSTRUCTION, THE OWNER SHALL SCHEDULE AN ON-SITE MEETING WITH ALL MAJOR PARTIES. THIS WOULD INCLUDE BUT NOT LIMITED TO, THE OWNER, PROJECT MANAGER, CONTRACTOR, AND LAND OWNER REPRESENTATIVE.
- THE CONTRACTOR SHALL BE EQUIPPED WITH SOME MEANS OF CONSTANT COMMUNICATIONS, SUCH AS A MOBILE PHONE OR BEEPER. THIS EQUIPMENT WILL NOT BE SUPPLIED BY THE OWNER, NOR WILL WIRELESS SERVICE BE ARRANGED.
- DURING CONSTRUCTION, THE CONTRACTOR MUST ENSURE THAT EMPLOYEES AND SUBCONTRACTORS WEAR HARD HATS AT ALL TIMES. THE CONTRACTOR WILL COMPLY WITH ALL SCG SAFETY REQUIREMENTS IN THEIR AGREEMENT.
- PROVIDE WRITTEN DAILY UPDATES AND PHOTOGRAPHS OF ON-SITE PROGRESS TO THE PROJECT MANAGER VIA E-MAIL.
- A COMPLETE INVENTORY OF CONSTRUCTION MATERIALS AND EQUIPMENT IS REQUIRED PRIOR TO THE START OF CONSTRUCTION.
- NOTIFY THE OWNER / PROJECT MANAGER IN WRITING NO LESS THAN 48 HOURS IN ADVANCE OF CONCRETE POURS, TOWER ERECTIONS, AND EQUIPMENT CABINET PLACEMENTS.
- CLOSEOUT PACKAGE IS DUE COMPLETE WITH DETAILED TOP PHOTOS UPON SITE PUNCHWALK WITH PROJECT MANAGER (SEE PROJECT MANAGER FOR SAMPLE CLOSEOUT PACKAGE).

WARRANTIES AND BONDS

- THE CONTRACTOR IS RESPONSIBLE FOR APPLICATION AND PAYMENT OF CONTRACTOR LICENSES AND BONDS.
- SEE MASTER CONTRACTOR SERVICES AGREEMENT FOR ADDITIONAL DETAILS.

GENERAL NOTES

- IDEMNIFICATION CLAUSE: THE CONTRACTOR AGREES AND SHALL: ASSUME SOLE AND COMPLETE RESPONSIBILITY OF THE JOBSITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTIES. THAT THESE REQUIREMENTS SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND CONDITIONS. THE CONTRACTOR FURTHER AGREES TO DEFEND INDEMNITY AND HOLD SOCIAL GAS REPRESENTATIVES AND ENGINEERS HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED IN CONNECTION WITH THE PERFORMANCE OF THE WORK ON THIS PROJECT.
- PRIOR TO THE BEGINNING OF ANY CONSTRUCTION AND THROUGHOUT THE COURSE OF CONSTRUCTION WORK, THE CONTRACTOR SHALL FULLY COMPLY WITH "CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH" ACT OF 1973 INCLUDING ALL REVISIONS AND AMENDMENTS THERETO.
- ALL WORK SHALL CONFORM TO THE LATEST EDITION OF GO 95, 128, AND THE STANDARD "SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", AS ADOPTED BY THE CITY, COUNTY OR STATE AS MODIFIED BY STANDARD PLANS AND ADDENDUM.
- THE EXISTENCE AND LOCATION OF UTILITIES AND OTHER AGENCIES FACILITIES AS SHOWN HEREON ARE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. OTHER FACILITIES MAY EXIST. THE CONTRACTOR SHALL VERIFY PRIOR TO THE START OF CONSTRUCTION AND SHALL USE EXTREME CARE AND PROTECTIVE MEASURES TO PREVENT DAMAGE TO THESE FACILITIES. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UTILITY OR AGENCY FACILITIES WITHIN THE LIMITS OF WORK, WHETHER THEY ARE SHOWN ON THIS PLAN OR NOT.
- THE CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT (800) 227-2600, AT LEAST TWO WORKING DAYS PRIOR TO THE START OF ANY EXCAVATION.
- THE CONTRACTOR SHALL NOTIFY THE CITY, COUNTY OR STATE ENGINEER INSPECTION DEPARTMENT (213) 482-7030, AT LEAST TWO WORKING DAYS BEFORE THE START OF ANY WORK REQUIRING THEIR INVOLVEMENT.
- ALL WORK AREA AND STREET TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS OF THE WORK AREA TRAFFIC CONTROL BOOK AND SPECIFICATIONS FROM THE CITY, COUNTY OR STATE.
- THE CITY, COUNTY OR STATE SHALL SPECIFY THE EXPIRATION PERIOD OF THE PERMIT FOR THIS CONSTRUCTION PROJECT.
- THE MINIMUM COVER FOR ALL CONDUITS PLACED UNDERGROUND SHALL BE 36 INCHES TO THE FINISHED GRADE AT ALL TIMES.
- ALL SHRUBS, PLANTS OR TREES THAT HAVE BEEN DAMAGED OR DISTURBED DURING THE COURSE OF THE WORK, SHALL BE REPLANTED AND/OR REPLACED SO AS TO RESTORE THE WORK SITE TO ITS ORIGINAL CONDITION.
- VAULTS, PEDESTALS, CONDUITS AND OTHER TYPES OF SUBSTRUCTURE ARE EITHER SPECIFIED ON THIS PLAN OR WILL BE SPECIFIED BY THE CONSTRUCTION ENGINEER. ANY AND ALL DEVIATIONS FROM THE SPECIFIED TYPES OF MATERIAL MUST BE APPROVED BY THE SYSTEM ENGINEER, IN WRITING BEFORE INSTALLATION THEREOF.
- ALL RECONSTRUCTION, RESURFACING, PAVEMENT DELINEATION AND OTHER IMPROVEMENTS ARE TO BE RESTORED TO THE SAME OR IMPROVED CONDITION BASED ON GENERAL NOTE NO. 3 ABOVE.

INSURANCE AND BONDS

- THE CONTRACTOR SHALL AT THEIR OWN EXPENSE CARRY AND MAINTAIN FOR THE DURATION OF THE PROJECT ALL INSURANCE AS REQUIRED AND LISTED.
- THE CONTRACTOR SHALL NOT COMMENCE WITH THEIR WORK UNTIL THEY HAVE PRESENTED AN ORIGINAL CERTIFICATE OF INSURANCE STATING ALL COVERAGES TO THE OWNER.
- THE OWNER SHALL BE NAMED AS AN ADDITIONAL INSURED ON ALL POLICIES.
- REFER TO THE MASTER AGREEMENT FOR REQUIRED INSURANCE LIMITS.

CLEAN UP

- THE CONTRACTOR SHALL AT ALL TIMES KEEP THE SITE FREE FROM ACCUMULATION OF WASTE MATERIALS OR RUBBISH CAUSED BY THEIR EMPLOYEES AT WORK. AT THE COMPLETION OF THE WORK, THEY SHALL REMOVE ALL RUBBISH FROM AND ABOUT THE BUILDING AREA, INCLUDING ALL THEIR TOOLS, SCAFFOLDING AND SURPLUS MATERIALS AND SHALL LEAVE THEIR WORK CLEAN AND READY FOR USE.
- VISUALLY INSPECT EXTERIOR SURFACES AND REMOVE ALL TRACES OF SOIL, WASTE MATERIALS, SMUDGES AND OTHER FOREIGN MATTER.
- REMOVE ALL TRACES OF SPLASHED MATERIALS FROM ADJACENT SURFACES.
- IF NECESSARY TO ACHIEVE A UNIFORM DEGREE OF CLEANLINESS, HOSE DOWN THE EXTERIOR OF THE STRUCTURE.

SUBSTANTIAL COMPLETION

- SUBSTANTIAL COMPLETION IS THE STAGE OF WORK IS SUFFICIENTLY COMPLETE IN ACCORDANCE WITH THE CONTRACT SO THE OWNER CAN FULLY UTILIZE THE WORK FOR ITS INTENDED USE. SUCH TIME, CONTRACTOR SHALL SUBMIT TO OWNER A REQUEST FOR FINAL PAYMENT AND FINAL COMPLETION REPORT ITEMIZING AND DETAILED INVENTORY OF WORK TO COMPLETION AND AS-BUILT DOCUMENTS/DRAWINGS.
- OWNER WILL ONLY RELEASE FINAL PAYMENT UPON SATISFACTORY REVIEW AND CONTRACTOR COMPLIANCE OF THE FINAL PAYMENT REQUIREMENTS.

CONFLICTS

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF ALL MEASUREMENTS AT THE SITE BEFORE ORDERING ANY MATERIALS OR DOING ANY WORK. NO EXTRA CHARGE OR COMPENSATION SHALL BE ALLOWED DUE TO DIFFERENCE BETWEEN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED IN THE CONSTRUCTION DRAWINGS. ANY SUCH DISCREPANCY IN DIMENSION WHICH MAY BE FOUND SHALL BE SUBMITTED TO THE OWNER FOR CONSIDERATION BEFORE THE CONTRACTOR PROCEEDS WITH THE WORK IN THE AFFECTED AREAS.
- THE BIDDER, IF AWARDED THE CONTRACT, WILL NOT BE ALLOWED ANY EXTRA COMPENSATION BY REASON OF ANY MATTER OR THING CONCERNING WHICH BIDDER MIGHT HAVE FULLY INFORMED THEMSELVES PRIOR TO THE BIDDING.
- NO PLEA OF IGNORANCE OF CONDITIONS THAT EXIST, OR OF DIFFICULTIES OR CONDITIONS THAT MAY BE ENCOUNTERED OR OF ANY OTHER RELEVANT MATTER CONCERNING THE WORK TO BE PERFORMED IN THE EXECUTION OF THE WORK WILL BE ACCEPTED AS AN EXCUSE FOR ANY FAILURE OR OMISSION ON THE PART OF THE CONTRACTOR TO FULFILL EVERY DETAIL OF ALL REQUIREMENTS OF THE CONTRACT DOCUMENTS GOVERNING THE WORK.

STRUCTURAL NOTES

- DESIGN CRITERIA:
 - 2013 CALIFORNIA BUILDING CODE.
 - ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS OTHER STRUCTURES.
 - INTERNATIONAL BUILDING CODE (IBC) 2012
 - TIA-222 G STANDARD.
 - 2013 AASHTO LTS - 6TH EDITION.
 - G.O.95
- DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY UNUSUAL OR UNFORESEEN CONDITION PRIOR TO CONTINUING WITH CONSTRUCTION. SHOULD ANY CONDITION ARISE WHERE THE INTENT OF THE DRAWINGS IS IN DOUBT, OR WHERE THERE APPEARS TO BE DISCREPANCY BETWEEN THE DRAWINGS AND THE CONDITION IN THE FIELD, THE ENGINEER SHALL BE NOTIFIED PRIOR TO CONTINUING THE WORK.
- PORTLAND CEMENT SHALL CONFORM TO ASTM C-150 TYPE II. AGGREGATE FOR STONE CONCRETE SHALL CONFORM TO ASTM C-33. AGGREGATE FOR LIGHTWEIGHT CONCRETE SHALL CONFORM TO ASTM C-330. AGGREGATE ASTM C-33: MAXIMUM SIZE 1 1/2" FOR FOOTINGS AND 1" FOR ALL OTHER WORK.
- ALL REINFORCING BARS, ANCHOR BOLTS, PRESTRESSING TENDONS AND ALL OTHER CONCRETE INSERTS SHALL BE WELL SECURED IN POSITION PRIOR TO PLACING CONCRETE.
- THE MAXIMUM SLUMP SHALL BE BETWEEN THE RANGE OF 3" TO 5" FOR FOOTINGS, SLABS ON EARTH AND MASS CONCRETE.

STANDARD SYMBOLS

	BUILDING
	BOLLARD
	CABLE TV LINE
	CENTER LINE
	CONCRETE BLOCK WALL
	CURB, GUTTER & SIDEWALK
	DRIVEWAY
	EDGE OF PAVEMENT
	EDGE OF DIRT
	ELECTRIC VAULT
	FENCE
	CHAINLINK FENCE
	FIRE HYDRANT
	GAS LINE
	GAS VALVE
	GATE VALVE
	GUY POLE
	JOINT POLE
	MANHOLE
	OIL LINE
	POWER LINE
	PROPERTY LINE
	PULLBOX
	RAILROAD TRACK
	RETAINING WALL
	RIGHT OF WAY
	SANITARY SEWER
	STORM DRAIN LINE
	STREET LIGHT LINE
	STREET SIGN
	SERVICE PEDESTAL
	TELCO LINE
	WATER LINE
	WATER METER

PROPRIETARY INFORMATION:
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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:

SOUTHERN CALIFORNIA EDISON
28' CONCRETE
AC POLE ATTACHMENT
PHOTO CELL TAP

SHEET TITLE:

**GENERAL
NOTES &
SYMBOLS**

LICENSURE:

DATE:

DESIGNER: J.M.

CAD DRAFTING: A.J.

CHECKED BY: J.M.

SCALE: AS SHOWN

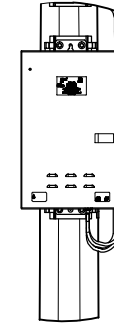
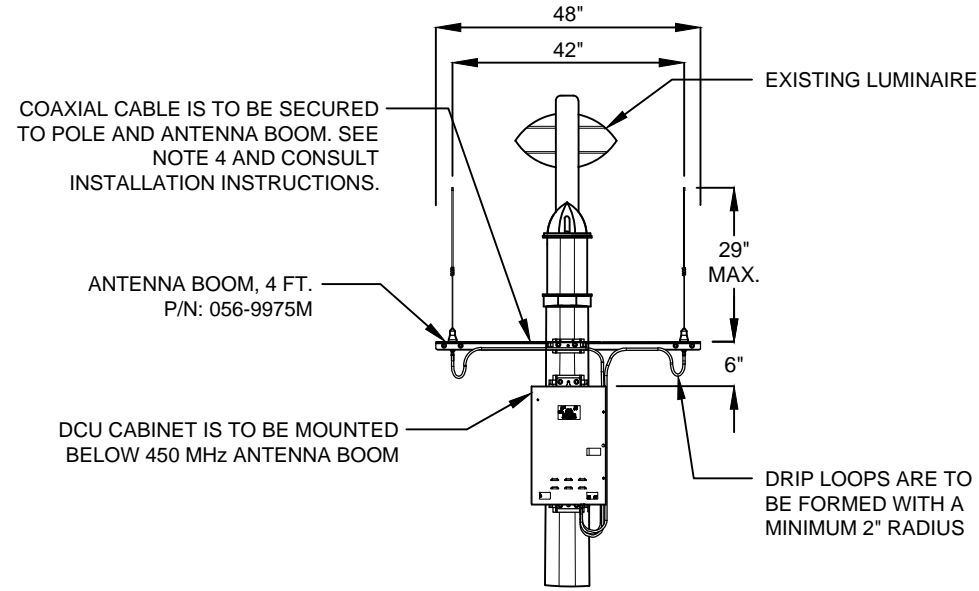
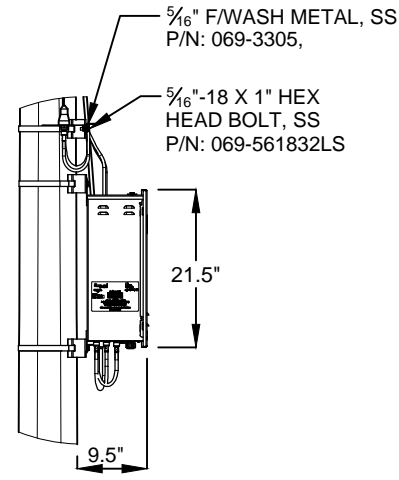
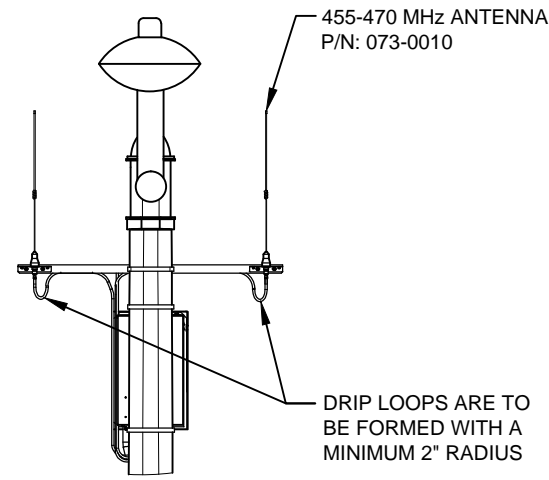
SHEET NUMBER:

REVISION:

T-2

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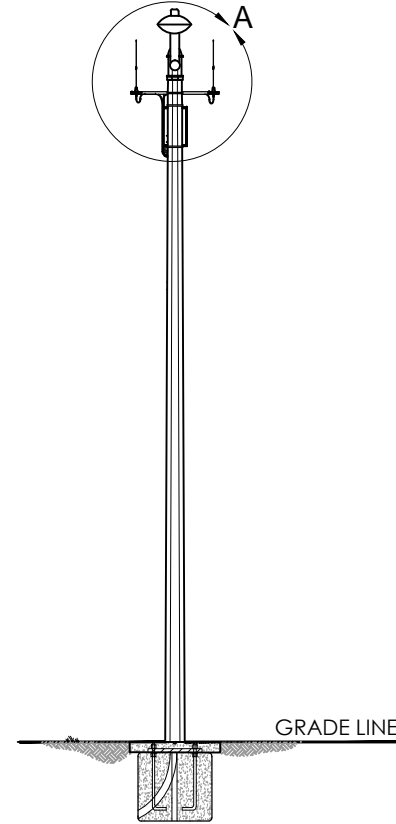


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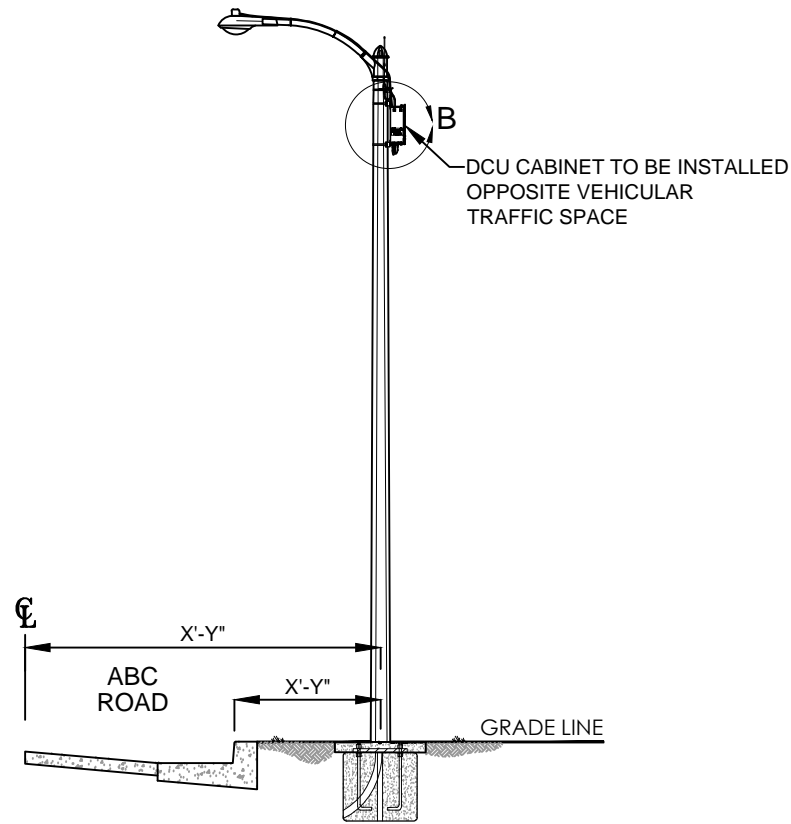
2 DETAIL B

3 DETAIL C

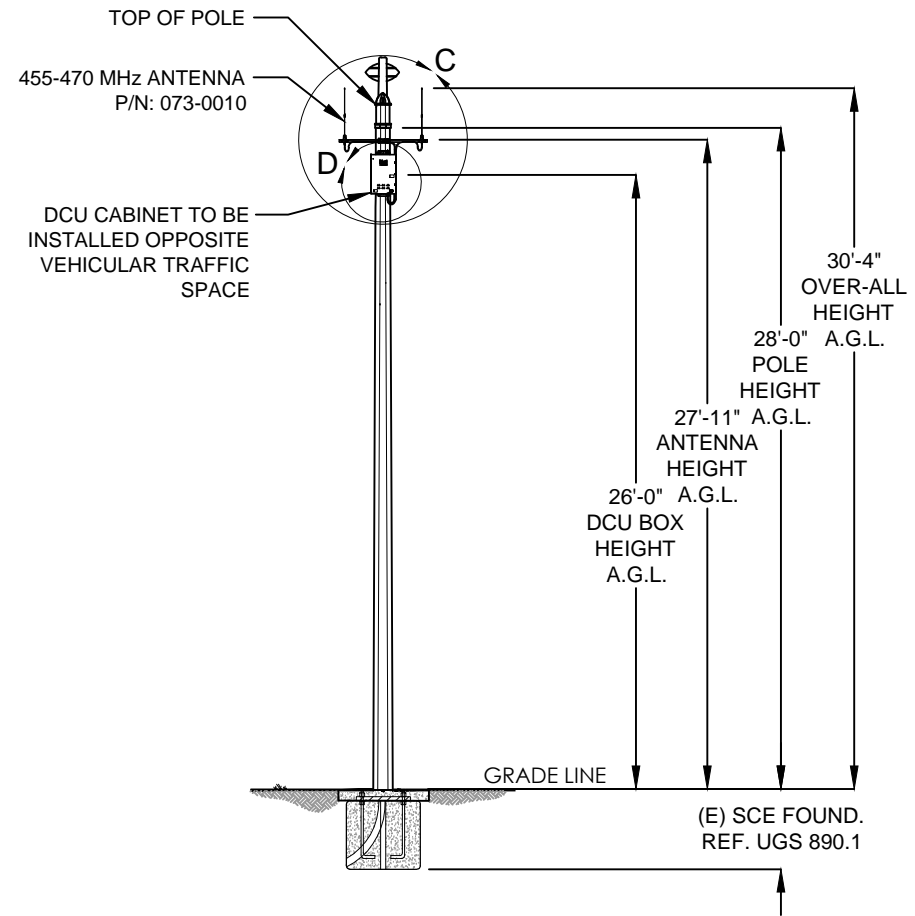
4 DETAIL D



5 SITE ELEVATION LOOKING SOUTHEAST



6 SITE ELEVATION LOOKING NORTHEAST



7 SITE ELEVATION LOOKING NORTHWEST

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A		REVISED 06/14/18	

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
SOUTHERN CALIFORNIA EDISON
28' CONCRETE
AC POLE ATTACHMENT
PHOTO CELL TAP

SHEET TITLE:
ELEVATIONS

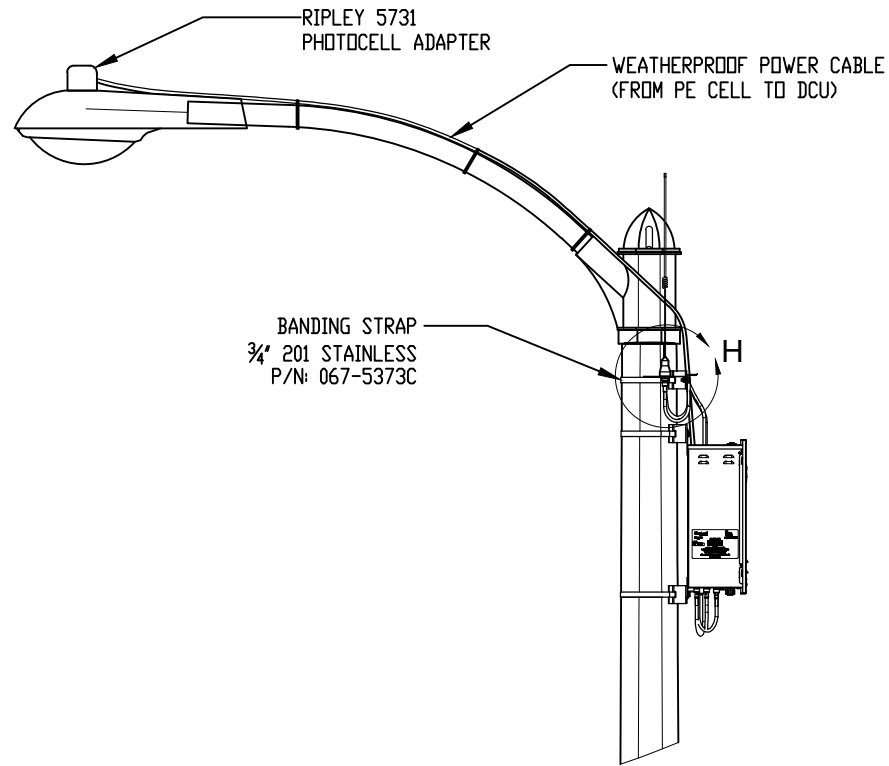
LICENSURE:

DESIGNER: J.M.		DATE:
CAD DRAFTING: A.J.		
CHECKED BY: J.M.		
SCALE: AS SHOWN		
SHEET NUMBER: A-1	REVISION: A	

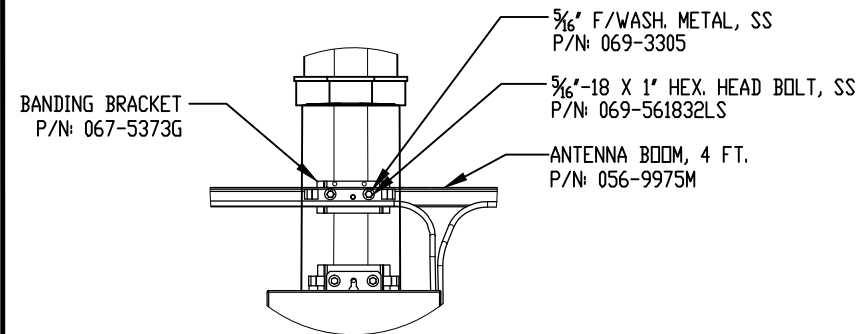
- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

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UNLESS OTHERWISE SPECIFIED	NWC	DATE	TITLE:
DIMENSIONS AS SHOWN	AWJ	05.25.17	TYPICAL INSTALLATION CONCRETE POLE, PHOTO-CELL
TOLERANCES:			
FRACTIONAL ±	CHECKED		
ANGULAR: MACH ± BEND	ENG APPR.		
TWO PLACE DECIMAL ±			
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:	QA		
MATERIAL	COMMENTS		SIZE DWG. NO.
CONCRETE	PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.		1C128'-CONC-PHOTO-FOUND
FINISH	NA		REV A
		NO SCALE	WEIGHT:

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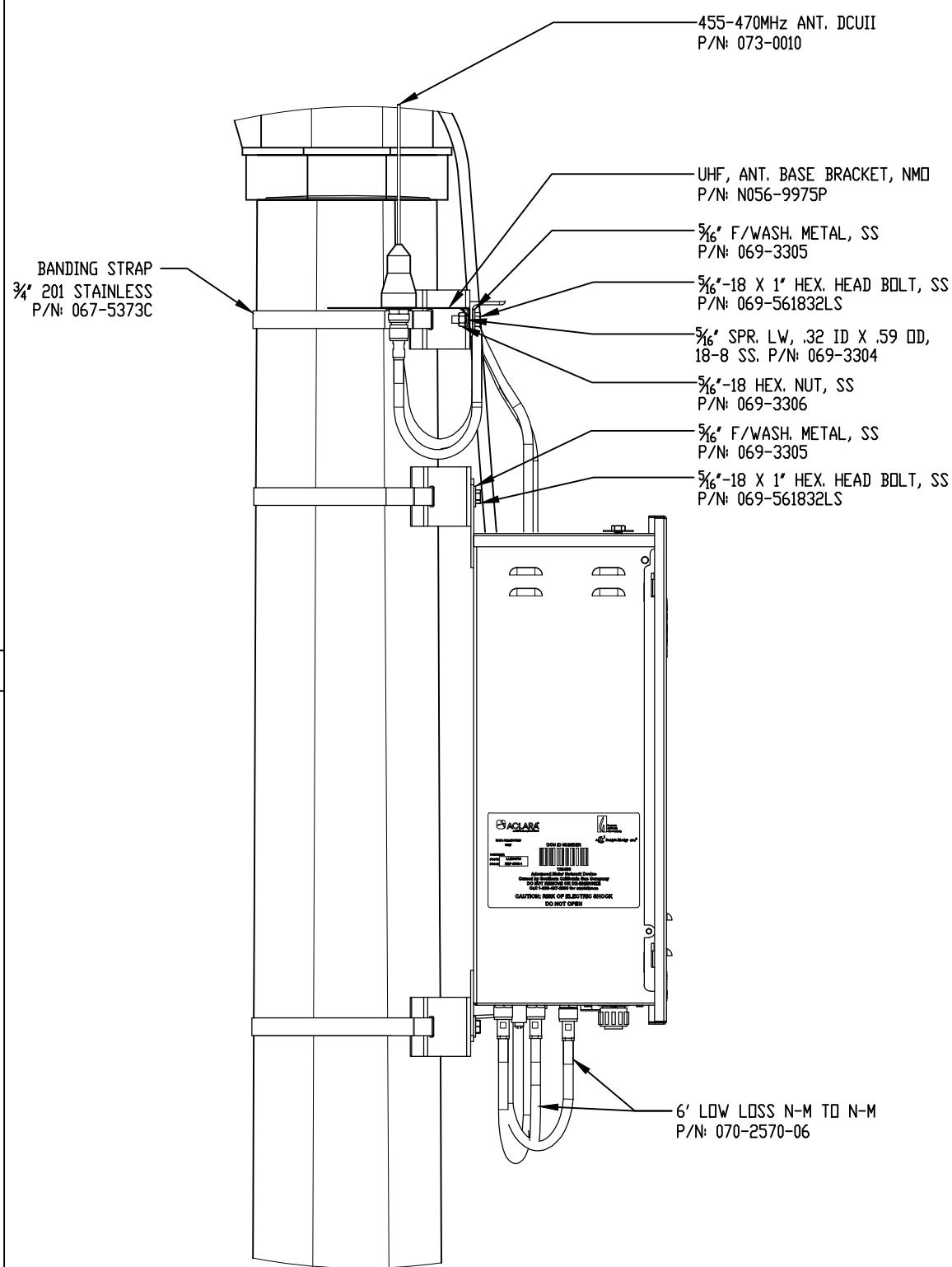


8 DETAIL E

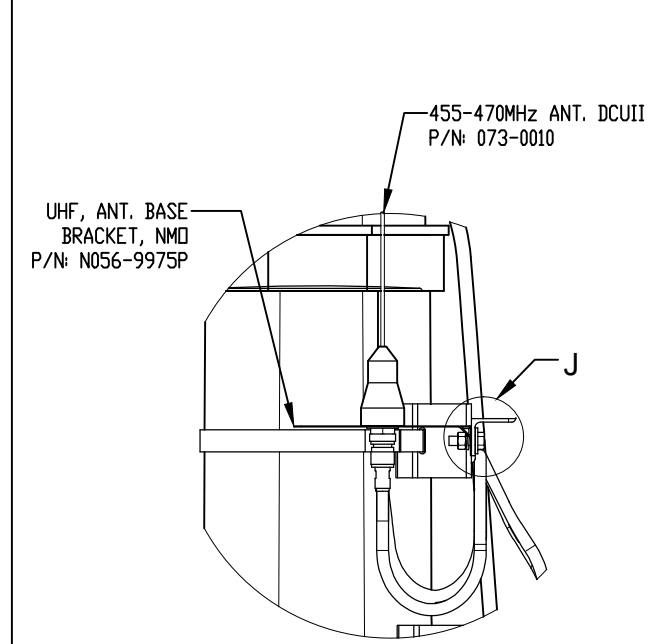


9 DETAIL G

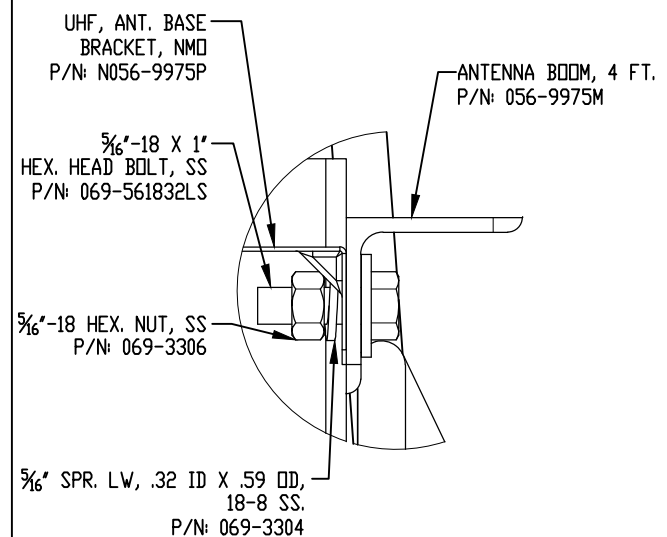
- NOTES:
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10 DETAIL F



11 DETAIL H



12 DETAIL J

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UNLESS OTHERWISE SPECIFIED	DATE	TITLE:
DRAWN		TYPICAL INSTALLATION CONCRETE POLE, PHOTO-CELL
CHECKED		
ENG APPR.		
MFG APPR.		
INTERPRET GEOMETRIC TOLERANCING PER:	QA	
MATERIAL	COMMENTS	SIZE DWG. NO.
CONCRETE	PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.	B
FINISH		REV
NA		A
	NO SCALE	WEIGHT:

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A		REVISED 06/14/18	

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
SOUTHERN CALIFORNIA EDISON
28' CONCRETE
AC POLE ATTACHMENT
PHOTO CELL TAP

SHEET TITLE:
DCU BOX DETAILS

LICENSURE:

DESIGNER: J.M.	DATE:
CAD DRAFTING: A.J.	
CHECKED BY: J.M.	
SCALE: AS SHOWN	
SHEET NUMBER: A-2	REVISION: A

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REV.	DATE	REVISED BY:	INITIAL
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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

PROJECT INFORMATION:
SOUTHERN CALIFORNIA EDISON
28' CONCRETE
AC POLE ATTACHMENT
PHOTO CELL TAP

SHEET TITLE:
MATERIALS LIST

LICENSURE:

DATE:

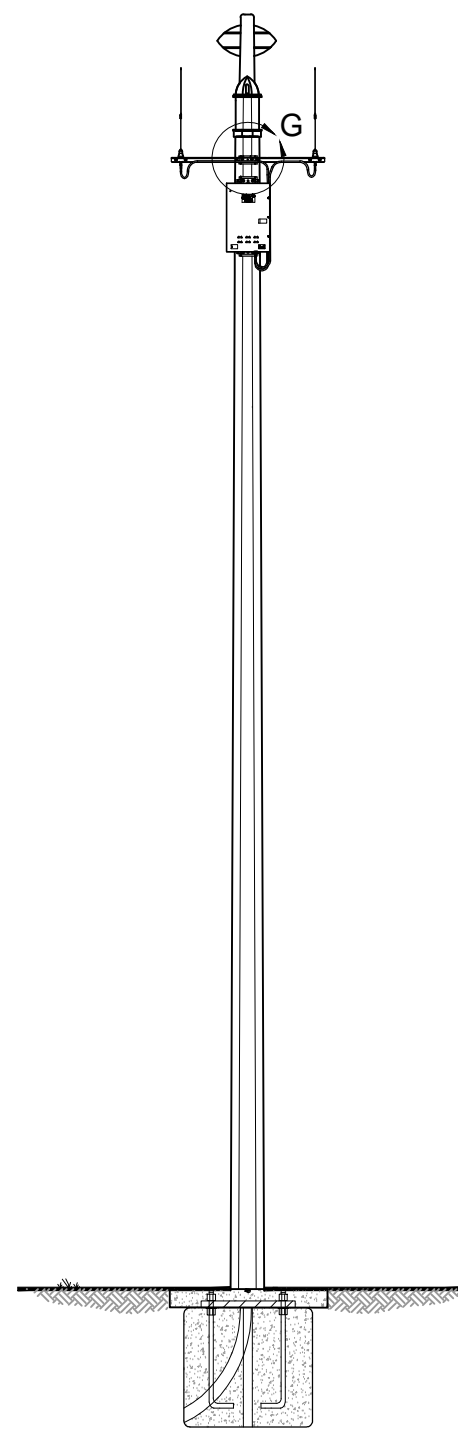
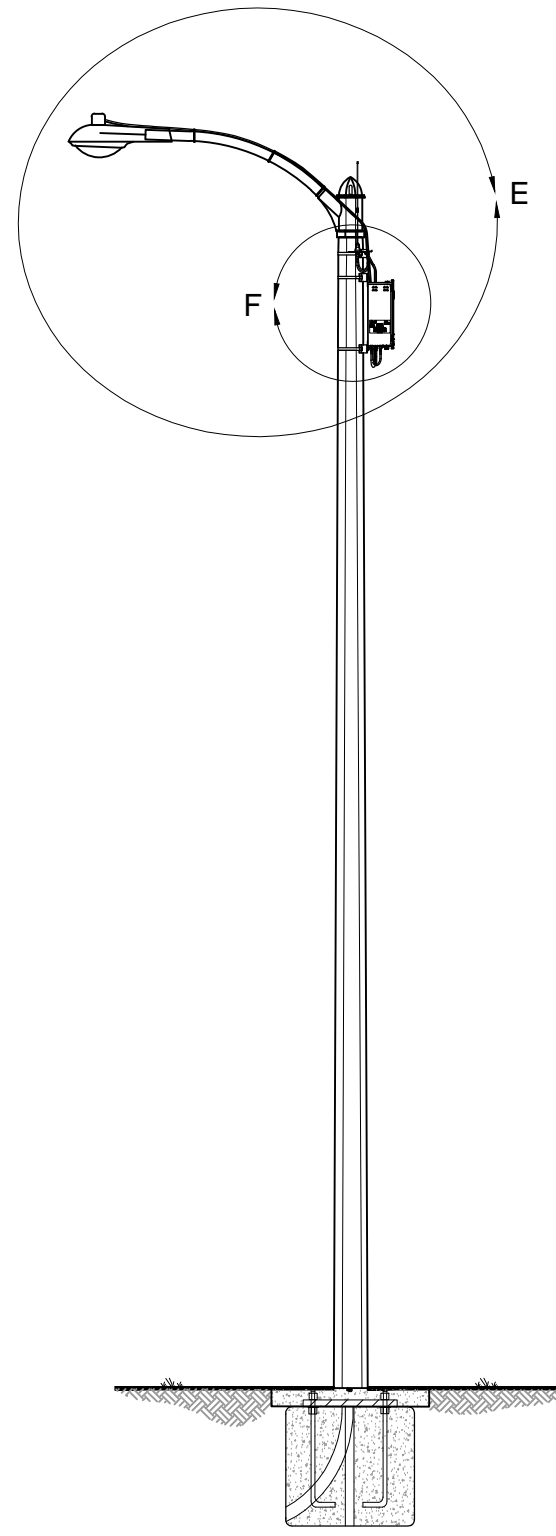
DESIGNER: J.M.
CAD DRAFTING: A.J.

CHECKED BY: J.M.
SCALE: AS SHOWN

SHEET NUMBER: REVISION:

A-3 **A**

MATERIALS LIST			
ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	11700-CELL-AC-SCG	DCU (DATA COLLECTION UNIT) CABINET	1
2	109-9975D	UHF ANT BASE ASSY	2
3	073-0010	455-470MHZ ANTENNAS/LAIRD ANTENNAS	2
4	056-9975M	ANTENNA BOOM, 4 FT	1
5	109-10700-02	MTG KIT, METAL/CONCRETE POLE, AC	1
	069-561832LS	5/16-18 X 1", HEX HEAD BOLT,SS	12
	069-3304	5/16 " SPR LW, .32 ID X .59 OD, 18-8 SS	12
	069-3305	5/16 F/WASH METAL, SS	12
	069-3306	5/16-18 HEX NUT SS	12
	067-5373D	BANDING CLAMP 3/4 SS 201, UB256	6
	067-5373G	BANDING BRACKET	3
	067-5373C	BANDING STRAP 3/4"X.02" A302 SS	3
	070-2570-06	6' COAX CABLES BETWEEN ANTENNAS & DCU	2
*6	098-0054	CABLE MGMT. BRACKETS (TRAP BOXES)	AS NEEDED
*7	TBD	SNAP-IN CLAMP	AS NEEDED
*8	098-0056	LMT-400 2 HOLE BOOM CLAMP	AS NEEDED
*9	098-0057	LMT-400 4 HOLE BOOM CLAMP	AS NEEDED
*10	084-0119	FUSION TAPE	AS NEEDED
*11	TBD	RIPLEY 5731 PHOTOCCELL ADAPTER	1
*CONTRACTOR SUPPLIED MATERIALS			



- NOTES:
1. MAXIMUM DCU CABINET WEIGHT NOT TO EXCEED 55# WITH BATTERIES.
 2. ENCLOSURE RATED NEMA 3R.
 3. DRAWING NOT TO SCALE.
 4. RF COAXIAL CABLES ARE TO BE SECURED USING TRAP BOXES, STAINLESS STEEL BANDING, SNAP LOCKS, ETC.

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UNLESS OTHERWISE SPECIFIED	DRAWN	DATE	TITLE:
DIMENSIONS AS SHOWN	CHECKED		TYPICAL INSTALLATION CONCRETE POLE, PHOTO-CELL
TOLERANCES:	ENG APPR.		
FRACTIONAL ±	QA		
ANGULAR: MACH ± BEND			
TWO PLACE DECIMAL ±			
THREE PLACE DECIMAL ±			
INTERPRET GEOMETRIC TOLERANCING PER:			
MATERIAL	COMMENTS	SIZE DWG. NO.	REV
CONCRETE	PROPRIETARY AND CONFIDENTIAL. THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.	B 1C128'-CONC-PHOTO-FOUN	A
FINISH		NO SCALE	WEIGHT:

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CONFIGURATION	ALWAYS ON PHOTOCONTROL MAINTAINS NORMAL OPERATION
NOMINAL VOLTAGE 50/60 Hz	120
VOLTAGE RANGE	105 - 135
BASE	STANDARD 3-PRONG TWIST-LOCK PER ANSI C136.10
HOUSING	3-1/2" DIAMETER POLYPROPYLENE
CORD LENGTH	5 FEET (STANDARD) - OTHER CORD LENGTHS AVAILABLE
CORD CONNECTION *	w/ PIGTAIL, 2-PRONG RECEPTACLE, OR 3-POLE FEMALE MINI-LINK
CIRCUIT BREAKER	10 AMP, AUTO-RESET
LOAD RATING	10 AMP
OPERATING TEMPERATURE	-40C TO +70C (-40F TO +158F)
PHOTOCONTROL	NOT INCLUDED. SOLD SEPARATELY
DIELECTRIC STRENGTH	5000 VOLTS BETWEEN CURRENT CARRYING PARTS & METAL SURFACES
*CORD CONNECTION OPTIONS	OPTION CODE (ADD TO END OF MODEL NUMBER)
PIGTAIL	-1
2-PRONG RECEPTACLE	-2
3-POLE FEMALE MINI-LINK	-3

NOTES:

1. TAP CONDUCTORS SHALL COMPLY WITH NEC ART. 240.21(A)(B) TAP RULE.
2. IT IS ASSUMED THAT AMPLE POWER CAPACITY IS AVAILABLE AT THE STREET LIGHT FEEDER FOR THE ADDITIONAL LOAD

REVISIONS:			
REV.	DATE	REVISED BY:	INITIAL
A		REVISED 06/14/18	

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ADVANCED METER
THE GAS COMPANY TOWER
555 W. 5TH STREET
LOS ANGELES, CA 90013

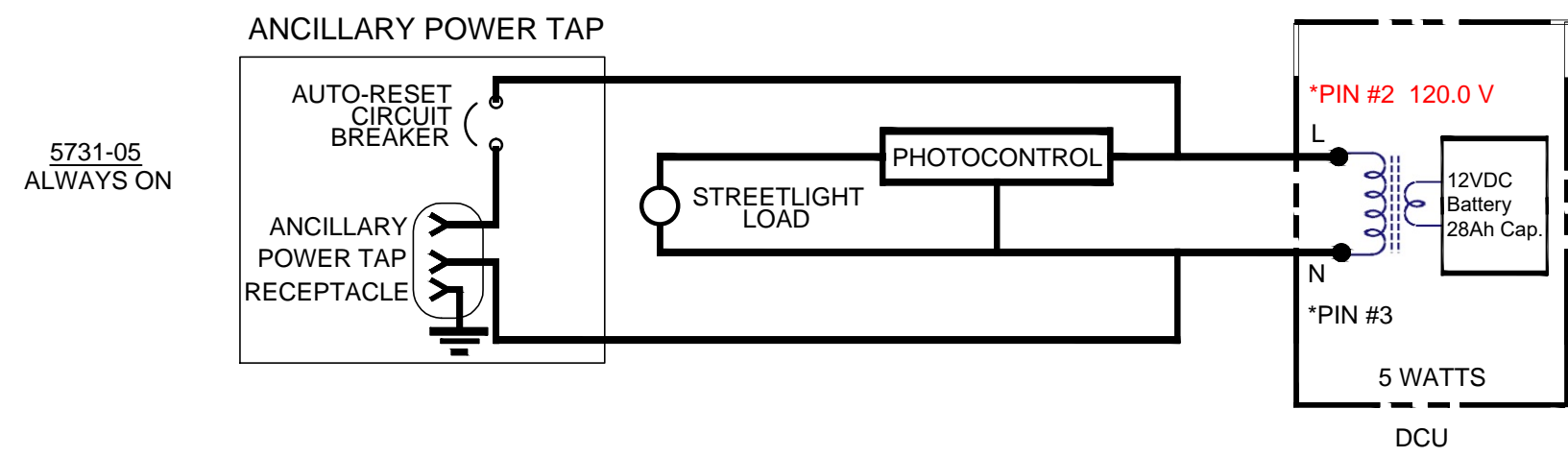
PROJECT INFORMATION:
SOUTHERN CALIFORNIA EDISON
28' CONCRETE
AC POLE ATTACHMENT
PHOTO CELL TAP

SHEET TITLE:
ELECTRICAL DIAGRAM

LICENSURE:

DESIGNER: J.M.
CAD DRAFTING: A.J.
CHECKED BY: J.M.
SCALE: AS SHOWN
SHEET NUMBER: **E-1**
REVISION: **A**

RIPLEY 5731-05



STREET LIGHT PHOTOCCELL TAP

- NOTES:
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UNLESS OTHERWISE SPECIFIED	DATE	TITLE:	
DIMENSIONS AS SHOWN	DRAWN	TYPICAL INSTALLATION CONCRETE POLE, PHOTO-CELL	
TOLERANCES:	CHECKED		
FRACTIONAL ±	ENG APPR.		
ANGULAR: MACH ± BEND	WFG APPR.		
TWO PLACE DECIMAL ±	QA		
THREE PLACE DECIMAL ±	COMMENTS		
INTERPRET GEOMETRIC TOLERANCING PER:	PROPRIETARY AND CONFIDENTIAL	SIZE DWG. NO.	REV
MATERIAL	THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF SOCAL GAS. ANY REPRODUCTION IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF SOCAL GAS IS PROHIBITED.	B	A
FINISH		NO SCALE	WEIGHT: