

# CALIFORNIA TRANSMISSION NETWORK

## SITE ID: 9CAB009080

## SITE NAME: SF90XSD36A

SITE LOCATION:  
 ESCUELA PKWY. & WASHINGTON DR.  
 MILPITAS, CA 95035

# EXISTING METAL STREET LIGHT

CALIFORNIA TRANSMISSION NETWORK

SITE ACQUISITION



2750 Moore Avenue  
 Fullerton, CA 92833  
 (714) 870-0217

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A&E SERVICES

DRAWN BY:	SASCO
DATE:	11/06/2015

REV	DATE	DESCRIPTION	BY
0	01/21/2016	95% CONSTRUCTION	FA

**GENERAL NOTES**

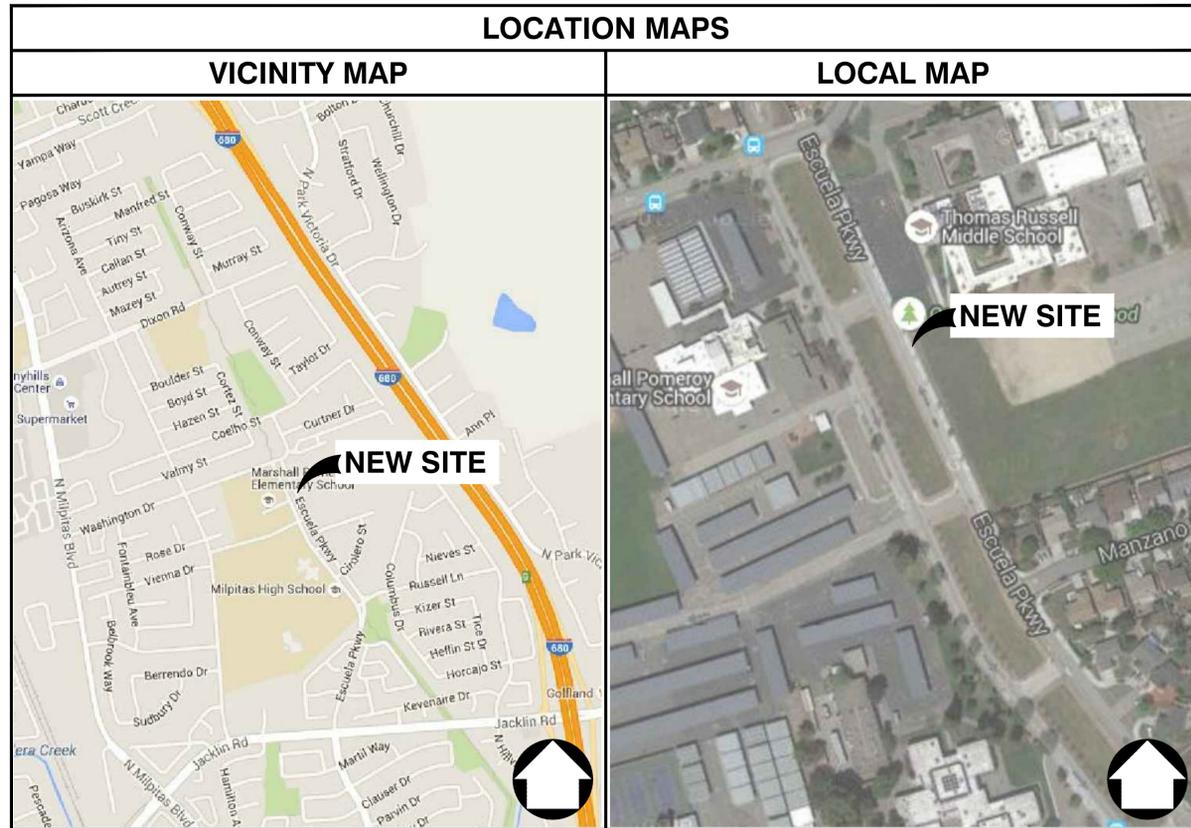
THE FACILITY IS NOT FOR HUMAN HABITATION. A TECHNICIAN WILL VISIT THE SITE AS REQUIRED FOR ROUTINE MAINTENANCE. THE PROJECT WILL NOT RESULT IN ANY SIGNIFICANT DISTURBANCE OR EFFECT ON DRAINAGE; NO SANITARY SEWER SERVICE, POTABLE WATER, OR TRASH DISPOSAL IS REQUIRED AND NO COMMERCIAL SIGNAGE IS PROPOSED.

**SITE INFORMATION**

APPLICANT: CALIFORNIA TRANSMISSION NETWORK  
 APPLICANT ADDRESS: 3972 BARRANCA PKWY, SUITE J-606 IRVINE, CA 92606  
 APPLICANT CONTACT: DAVID DOWNS  
 APPLICANT PHONE: (209) 470-0861  
 PUBLIC ROW/PRIVATE PROPERTY: PUBLIC ROW  
 NEAREST ADDRESS: 1505 ESCUELA PKWY MILPITAS, CA 95035  
 NEAREST APN(S): 026-17-027  
 SITE LATITUDE: 37° 27' 13.4814" N (37.4537451) 121° 54'  
 SITE LONGITUDE: 5.7702° W (-121.901603)  
 GIS TYPE: CA83VF (NAD83)  
 GROUND ELEVATION: ±55' AMSL  
 COUNTY: SANTA CLARA  
 JURISDICTION: CITY/COUNTY OF MILPITAS

**DO NOT SCALE DRAWINGS**

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



**PROJECT DESCRIPTION**

APPLICANT PROPOSES TO CONSTRUCT A NEW SMALL CELL SITE WITHIN AN EXISTING RIGHT OF WAY. THE SCOPE WILL CONSIST OF THE FOLLOWING:

- ATTACH NEW EQUIPMENT TO EXISTING 26'-0" METAL STREET LIGHT POLE
- INSTALL ONE (1) METER SOCKET
- INSTALL ONE (1) AC DISTRIBUTION PANEL
- INSTALL ONE (1) REMOTE RADIO HEAD
- INSTALL ONE (1) UE RELAY
- INSTALL ONE (1) GPS ANTENNA
- INSTALL ONE (1) OMNI-DIRECTIONAL ANTENNA
- INSTALL ONE (1) NEMA-4X DISCONNECT SWITCH

**ENGINEERING**

- 2012 INTERNATIONAL BUILDING CODE
- 2014 NATIONAL ELECTRICAL CODE
- TIA/EIA-222-G-2 OR LATEST EDITION
- LOCAL BUILDING/PLANNING CODE

**DRAWING INDEX**

SHEET NO:	SHEET TITLE
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A-3	WEST ELEVATIONS
D-1	EQUIPMENT DETAILS
E-1	ELECTRICAL PLAN
G-1	GROUNDING PLAN
TC-1	TRAFFIC CONTROL PLAN

**DESIGN TEAM**

CALIFORNIA TRANSMISSION NETWORK  
 3972 BARRANCA PKWY, SUITE J-606  
 IRVINE, CA 92606  
 PM: SYLVETTE CUEZON  
 PHONE: (562) 299-3645  
 EMAIL: sylvette.cuezon@itutility.com



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**SITE ID:**  
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 ESCUELA PKWY. &  
 WASHINGTON DR.  
 MILPITAS, CA 95035  
 EXISTING METAL STREET LIGHT

SHEET TITLE  
**TITLE SHEET**

SHEET NUMBER  
**T-1**







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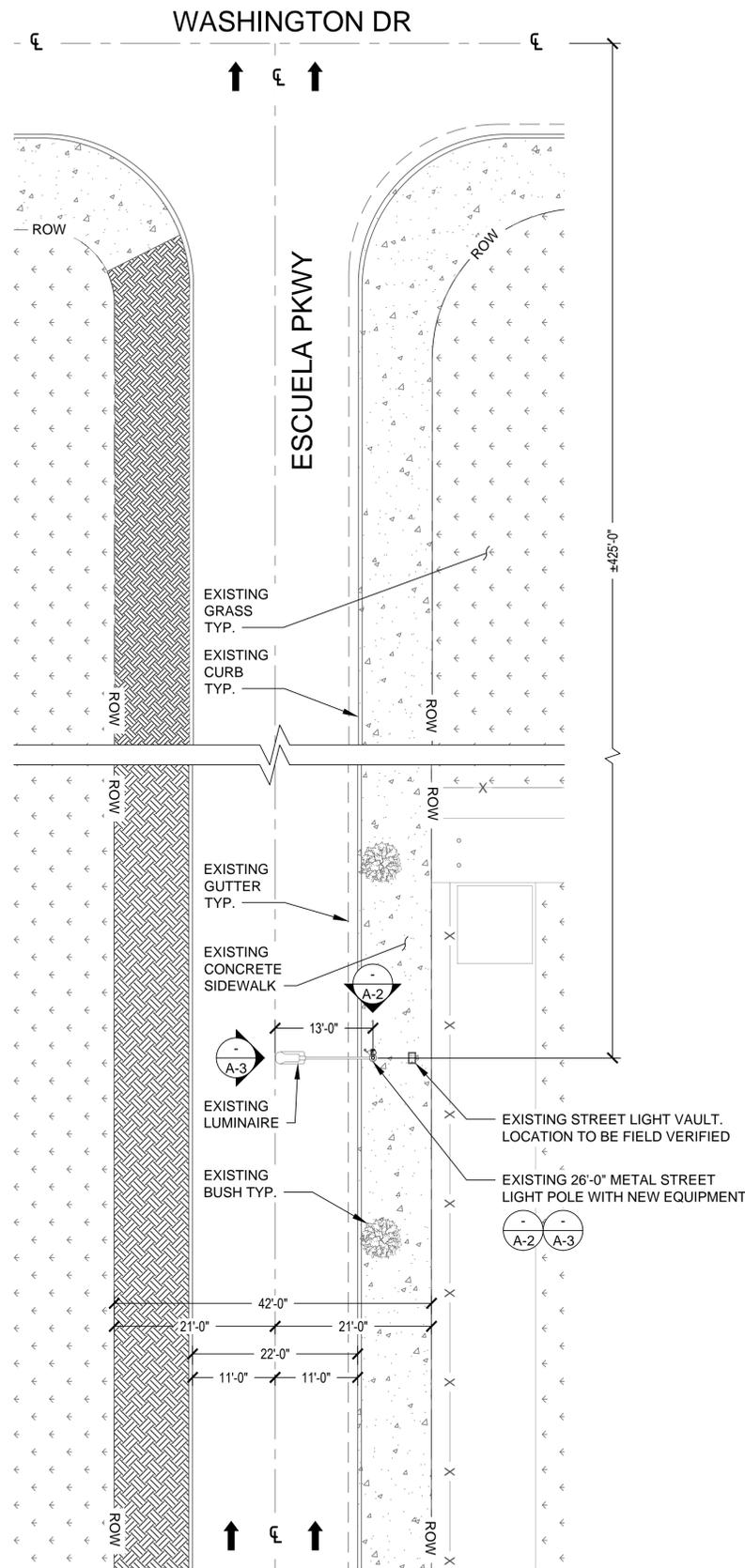
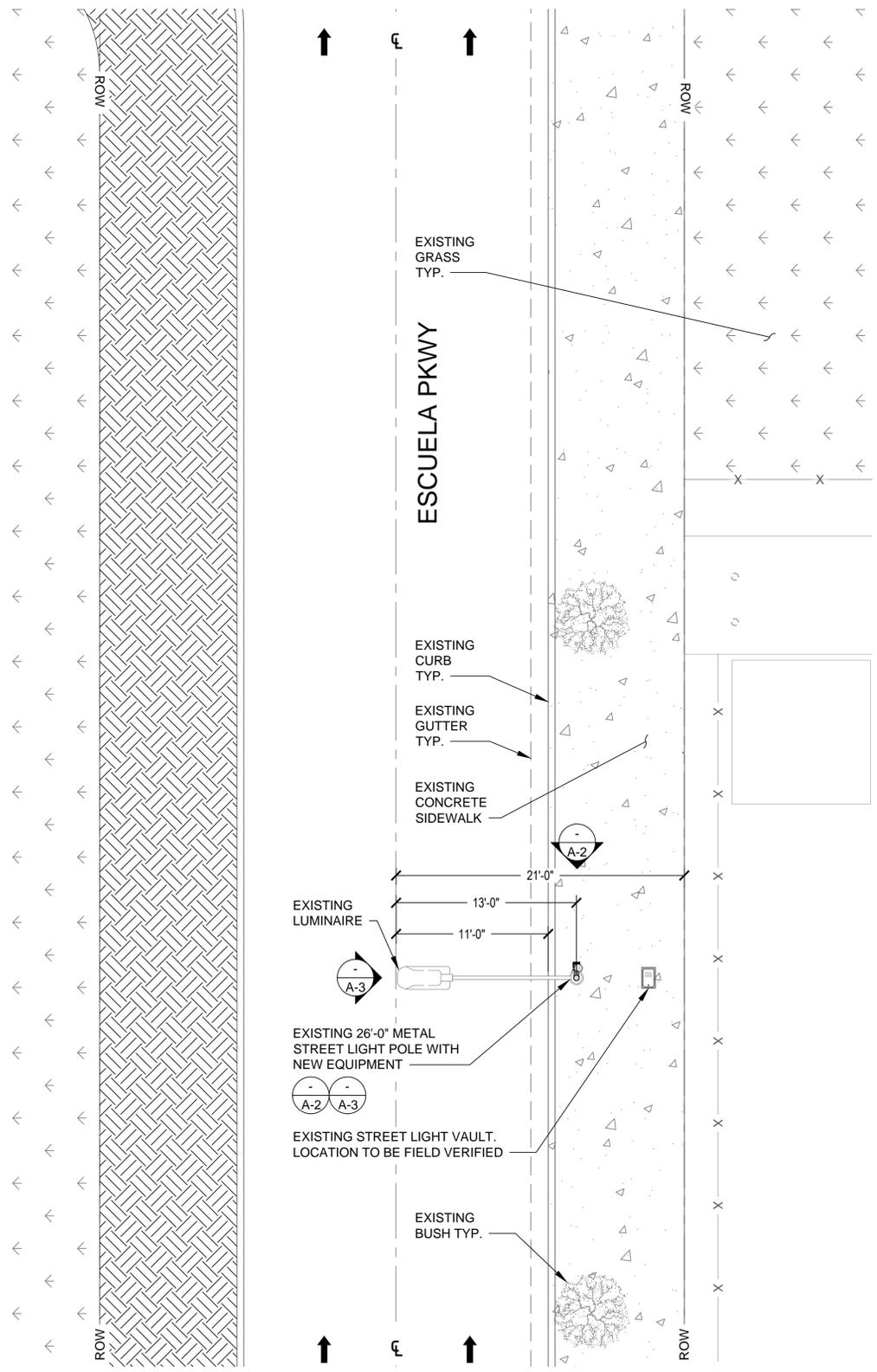
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SHEET TITLE  
**SITE PLANS**

SHEET NUMBER  
**A-1**



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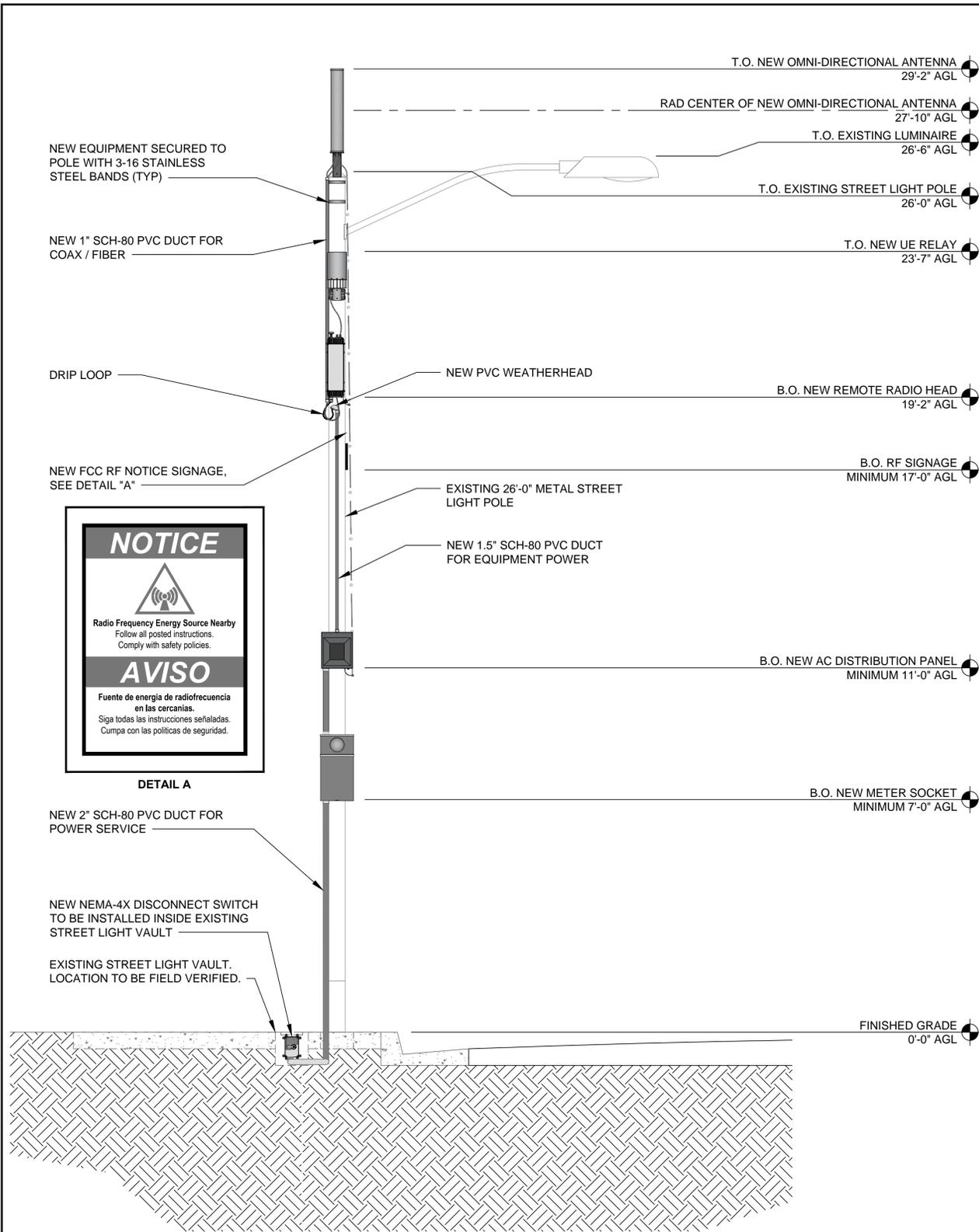
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SHEET TITLE  
**NORTH  
ELEVATIONS**

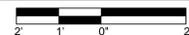
SHEET NUMBER  
**A-2**



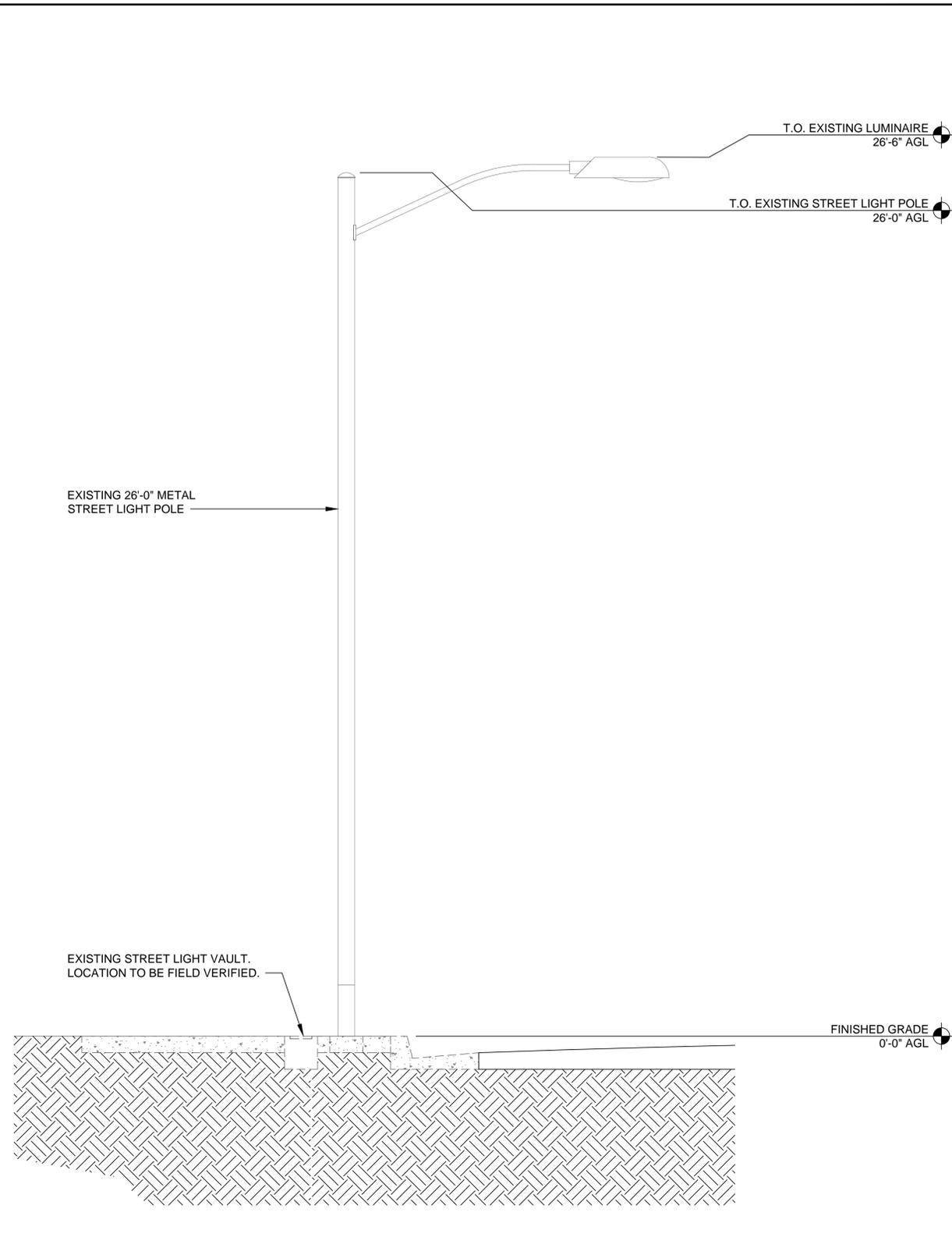
EQUIPMENT CHART				
QUANTITY	DESCRIPTION	CABLE LENGTH	DIMENSIONS (HxWxD)	WEIGHT
1	ALPHA WIRELESS AW3398 OMNI-DIRECTIONAL ANTENNA	TBD	25.5" X 4.5"Ø	4.6 LBS
1	AIRSPAN IR460 UE RELAY	TBD	13" X 7"Ø	8.8 LBS
1	TALLYSMAN TW3010/TW3012 GPS ANTENNA	TBD	8" X 2.6Ø	<.2 LBS
1	AIRSPAN AH 1000 REMOTE RADIO HEAD	TBD	21.61" X 5.6" X 8"	24 LBS
1	RAYCAP RSTAC-3111-P-120 AC DISTRIBUTION PANEL	TBD	13.1" X 11.4" X 4.4"	14 LBS
1	EATON U114TB METER SOCKET	TBD	24" X 12" X 4.63"	TBD
1	HUBBELL HBLDS3 NEMA-4X DISCONNECT SWITCH	TBD	7.62" X 5.12" X 4.12"	TBD

NEW NORTH ELEVATION

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

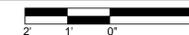


2



EXISTING NORTH ELEVATION

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



1

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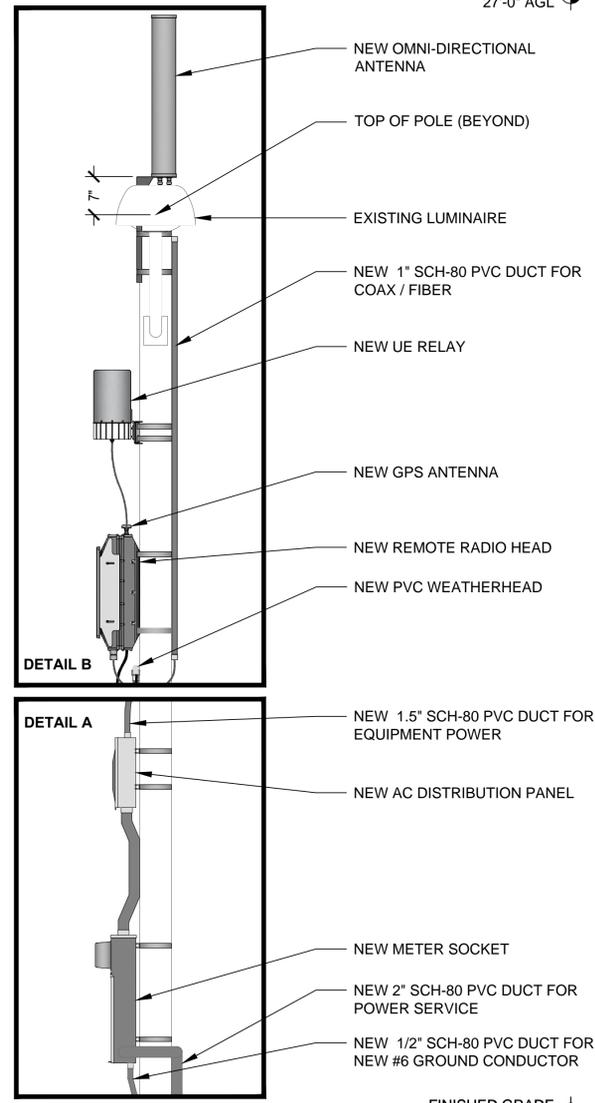
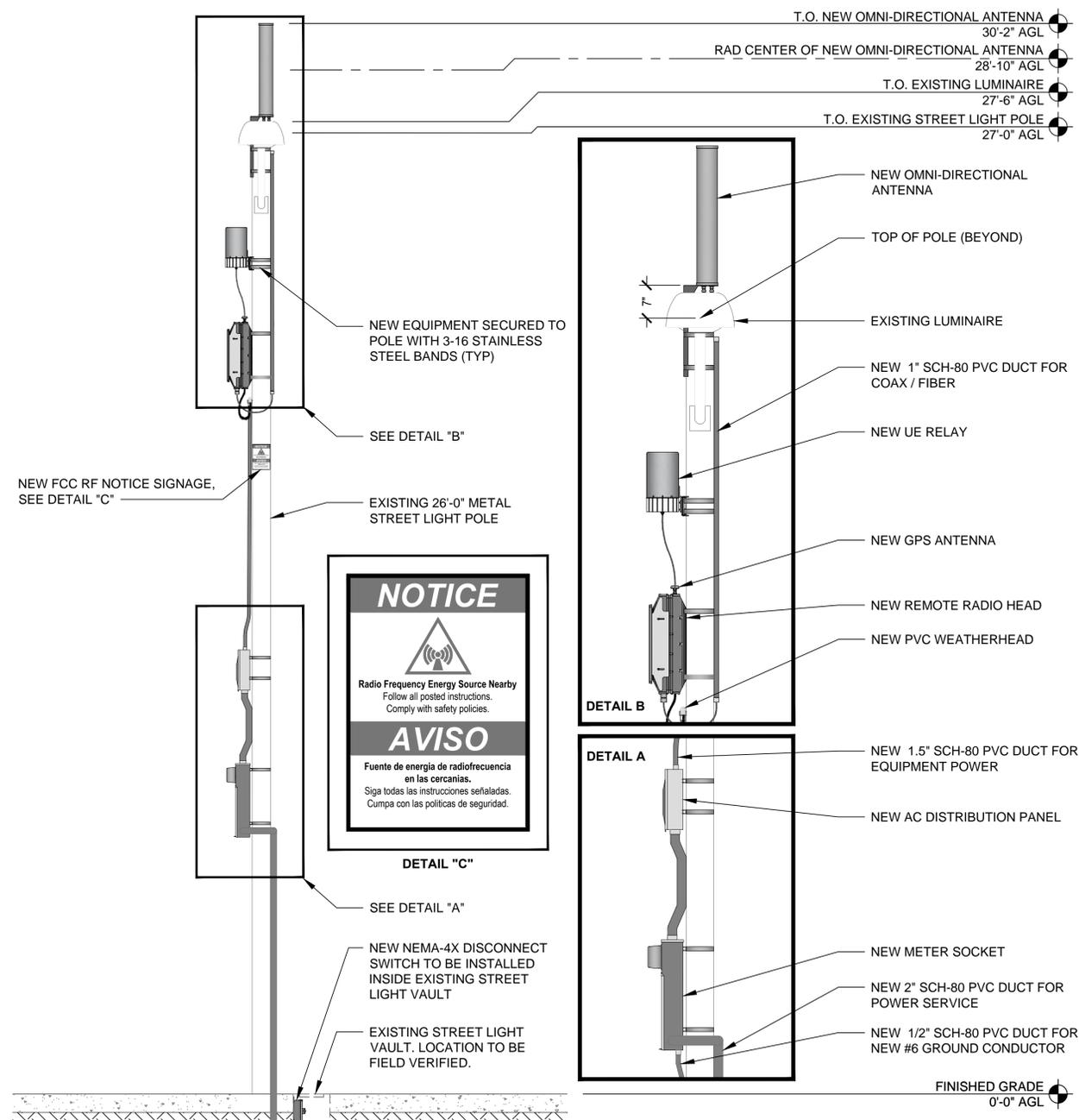
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EXISTING METAL STREET LIGHT

SHEET TITLE  
**WEST  
ELEVATIONS**

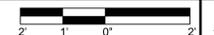
SHEET NUMBER  
**A-3**



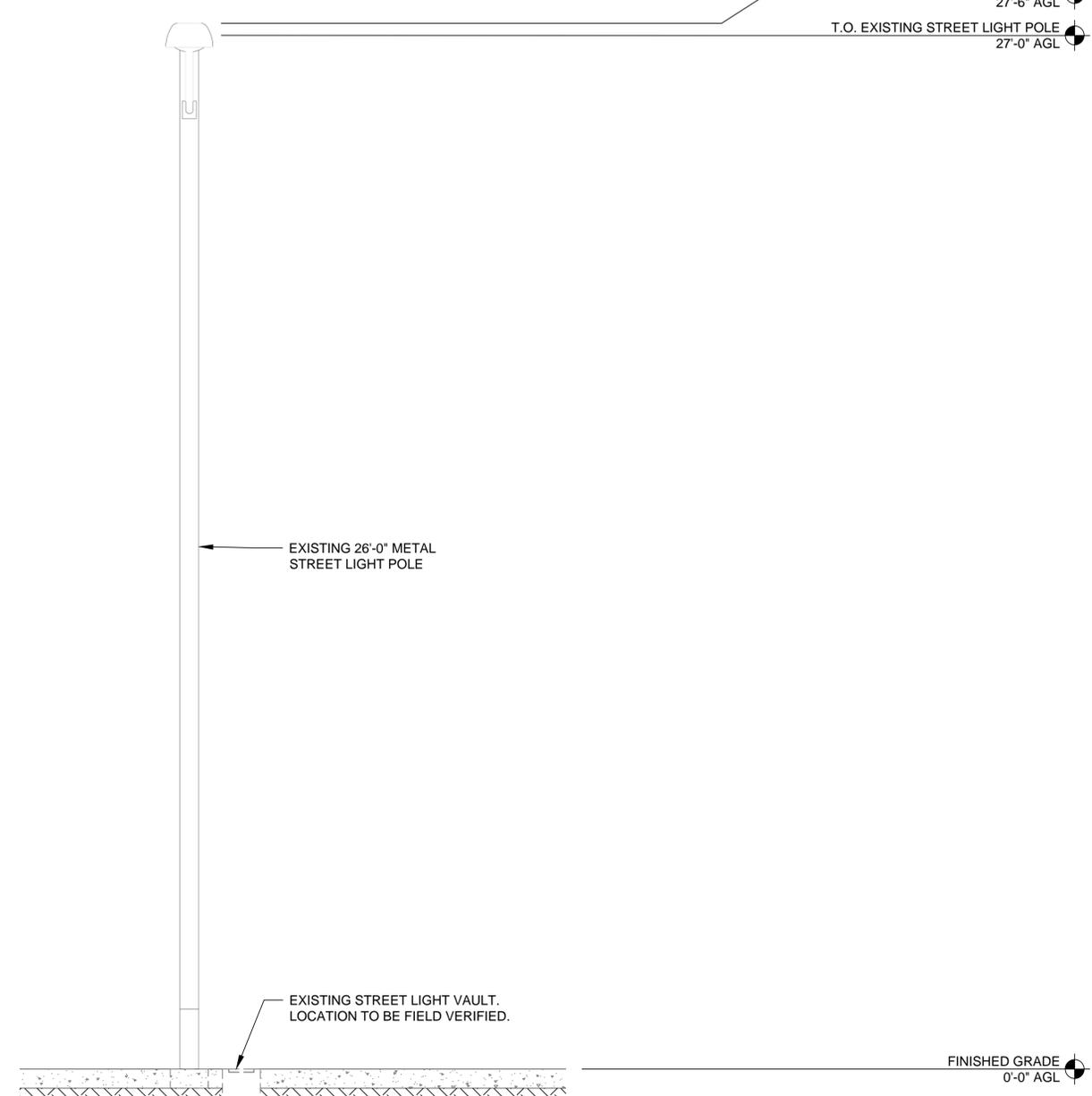
EQUIPMENT CHART				
QUANTITY	DESCRIPTION	CABLE LENGTH	DIMENSIONS (HxWxD)	WEIGHT
1	ALPHA WIRELESS AW3398 OMNI-DIRECTIONAL ANTENNA	TBD	25.5" X 4.5"Ø	4.6 LBS
1	AIRSPAN IR460 UE RELAY	TBD	13" X 7"Ø	8.8 LBS
1	TALLYSMAN TW3010/TW3012 GPS ANTENNA	TBD	8" X 2.6Ø	<.2 LBS
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1	HUBBELL HBLDS3 NEMA-4X DISCONNECT SWITCH	TBD	7.62" X 5.12" X 4.12"	TBD

NEW WEST ELEVATION

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



2

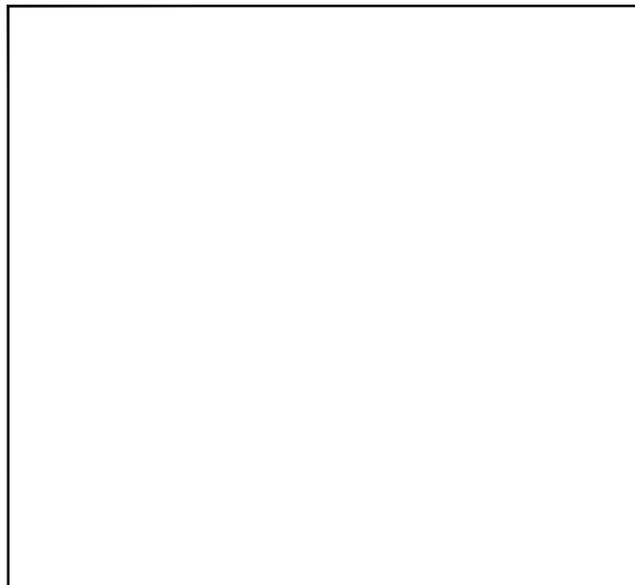


EXISTING WEST ELEVATION

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



1



MANUFACTURER: AIRSPAN  
MODEL: 402-00-328  
(OR APPROVED EQUAL)  
HEIGHT: 4.4 IN  
WIDTH: 4.9 IN  
DEPTH: 1 IN  
WEIGHT: 2 LBS

PLAN

FRONT

SIDE

MANUFACTURER: AIRSPAN  
MODEL: AH 1000  
(OR APPROVED EQUAL)  
HEIGHT: 21.6 IN  
WIDTH: 5.6 IN  
DEPTH: 8 IN  
WEIGHT: 24 LBS  
MOUNT WEIGHT: 2 LBS

FRONT

SIDE

PLAN

MANUFACTURER: ALPHA WIRELESS  
MODEL: AW3398  
(OR APPROVED EQUAL)  
HEIGHT: 25.5 IN  
DIAMETER: 4.5 IN Ø  
WEIGHT: 4.6 LBS  
MOUNT WEIGHT: 1.1 LB

SIDE

FRONT

PLAN

BOTTOM

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NOT USED

SCALE N.T.S. 9 POLE CLAMP SCALE N.T.S. 6

SCALE N.T.S. 3 REMOTE RADIO HEAD SCALE N.T.S. 4

SCALE N.T.S. 1 OMNI DIRECTIONAL ANTENNA SCALE N.T.S. 1

REV	DATE	DESCRIPTION	BY
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MANUFACTURER: RAYCAP  
MODEL: RSTAC-3111-P-120  
HEIGHT: 13.1 IN  
WIDTH: 11.4 IN  
DEPTH: 4.4 IN  
WEIGHT: 14 LBS

PLAN

FRONT

BOTTOM

FRONT OPEN

MANUFACTURER: TALLYSMAN  
MODEL: TW3010/TW3012  
HEIGHT: .8 IN  
DIAMETER: 2.6 IN

ELEVATION

ELEVATION ATTACHMENT

PLAN

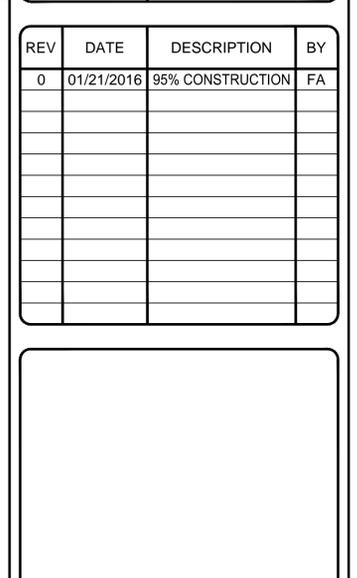
MANUFACTURER: AIRSPAN  
MODEL: iR460  
(OR APPROVED EQUAL)  
HEIGHT: 13 IN  
DIAMETER: 7 IN Ø  
DEPTH: 7 IN  
WEIGHT: 8.8 LBS

ELEVATION

DETAIL A

SEE 'DETAIL A'

iRELAY 460 MOUNTING BRACKET



NOT USED

SCALE N.T.S. 10 AC DISTRIBUTION PANEL SCALE N.T.S. 7

SCALE N.T.S. 4 GPS ANTENNA SCALE N.T.S. 4

SCALE N.T.S. 1 iRELAY 460 MOUNTING BRACKET

MANUFACTURER: EATON  
MODEL: 114TB  
(OR APPROVED EQUAL)  
HEIGHT: 24 IN  
WIDTH: 12 IN  
DEPTH: 4.63 IN  
WEIGHT: TBA

PLAN

ELEVATION

SIDE

MANUFACTURER: HUBBELL  
MODEL: HBLDS3  
(OR APPROVED EQUAL)  
HEIGHT: 7.62 IN  
WIDTH: 5.12 IN  
DEPTH: 4.12 IN  
WEIGHT: TBA

PLAN

FRONT

SIDE

MANUFACTURER: AIRSPAN  
MODEL: MC40200285 OR MC40200284  
(OR APPROVED EQUAL)  
HEIGHT: 5.6 IN  
WIDTH: 7.1 IN  
DEPTH: 1.5 IN  
WEIGHT: 2 LBS

PLAN

SIDE

FRONT

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EXISTING METAL STREET LIGHT

SHEET TITLE  
**EQUIPMENT  
DETAILS**

SHEET NUMBER  
**D-1**

NOT USED

SCALE N.T.S. 11 METER SOCKET SCALE N.T.S. 8

SCALE N.T.S. 5 NEMA-4X DISCONNECT SWITCH SCALE N.T.S. 2

SCALE N.T.S. 2 UE RELAY

CALIFORNIA  
TRANSMISSION NETWORK

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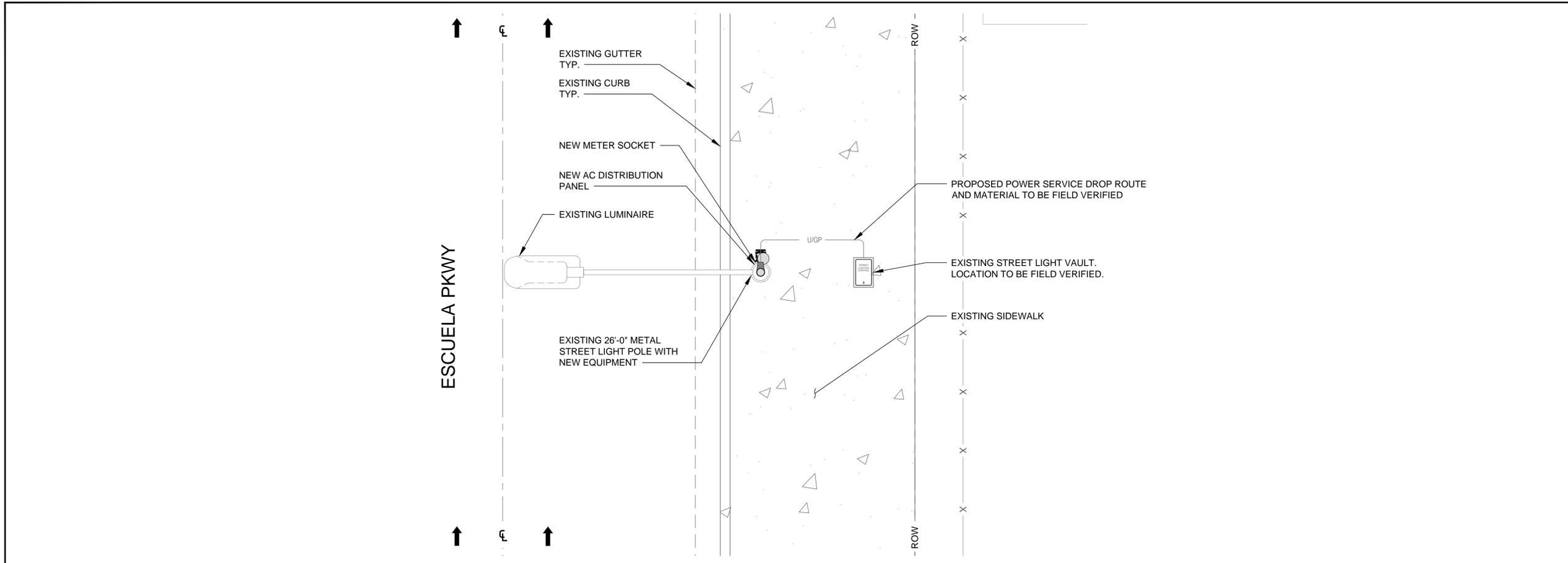
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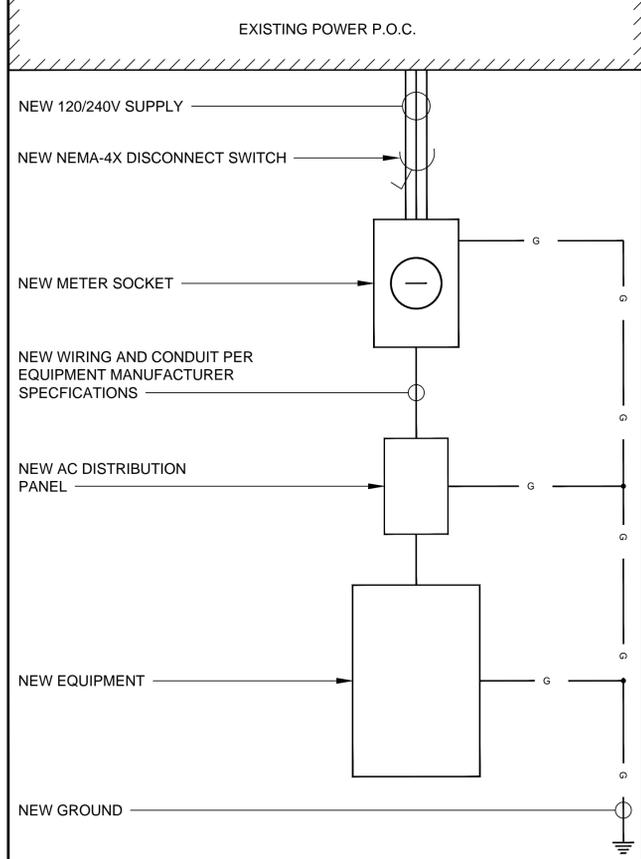
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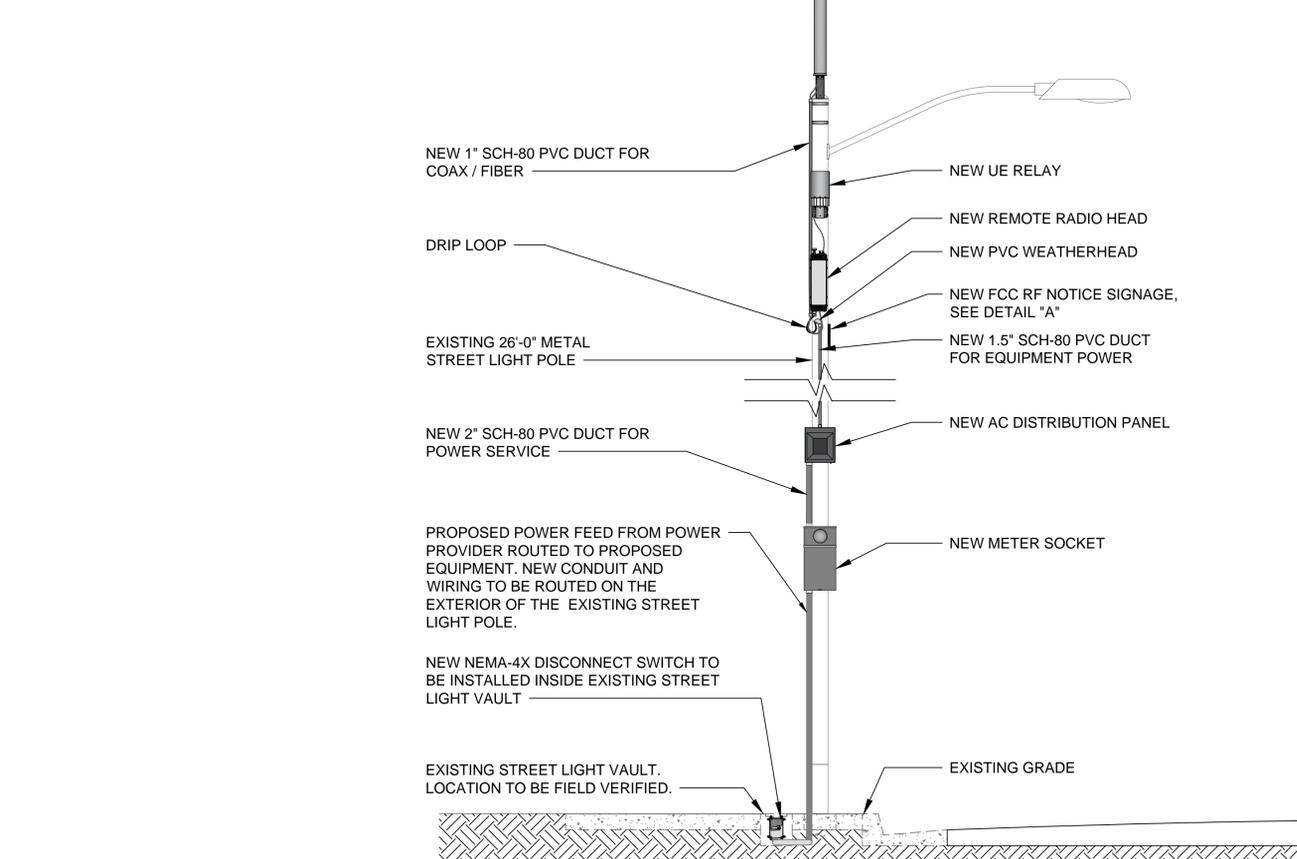
PRELIMINARY UTILITY PLAN

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



ONE-LINE DIAGRAM

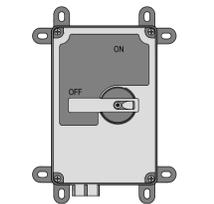
24"x36" SCALE: NTS  
11"x17" SCALE: NTS  
3



PRELIMINARY UTILITY ELEVATION



DETAIL A



FRONT PANEL DISCONNECT SWITCH PANEL

**SITE ID: 9CAB009080**  
**1505 ESCUELA PKWY**  
CONTACT EQUIPMENT OWNER 24 HOURS PRIOR TO SHUTDOWN AT:  
1-800-123-4567  
CONTACT EQUIPMENT OWNER UPON COMPLETION OF WORK. RE-ENERGIZE WITH PRIOR WRITTEN CONSENT OF SPRINT ONLY.  
MINIMUM APPROACH DISTANCE TO PRIMARY ANTENNA: **4.14ft**  
SECONDARY ANTENNA: **1.31ft**

DISCONNECT SWITCH PANEL DETAILS

24"x36" SCALE: 3/16" = 1'-0"  
11"x17" SCALE: 3/32" = 1'-0"  
2

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SHEET TITLE  
**ELECTRICAL PLAN**

SHEET NUMBER  
**E-1**

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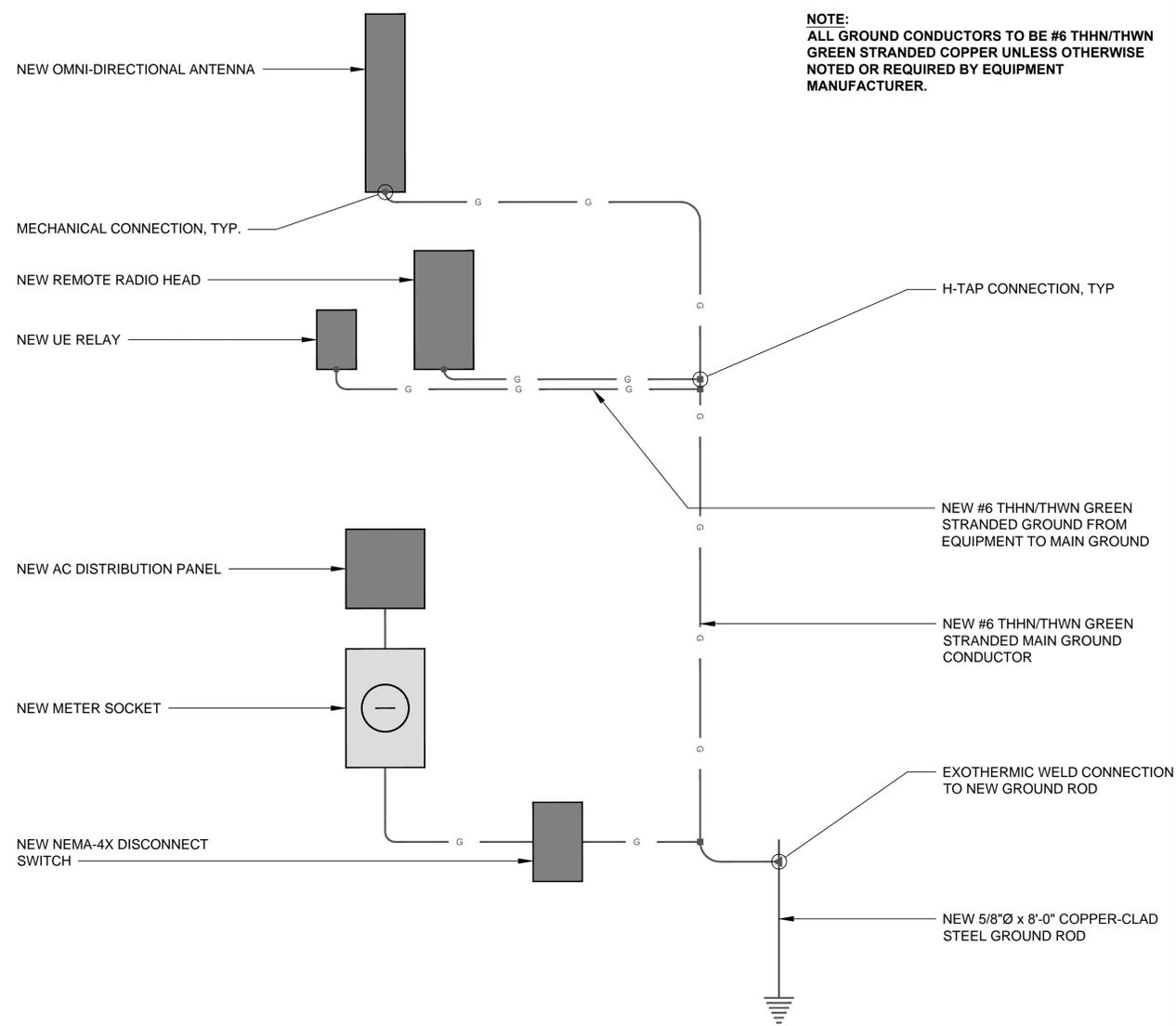
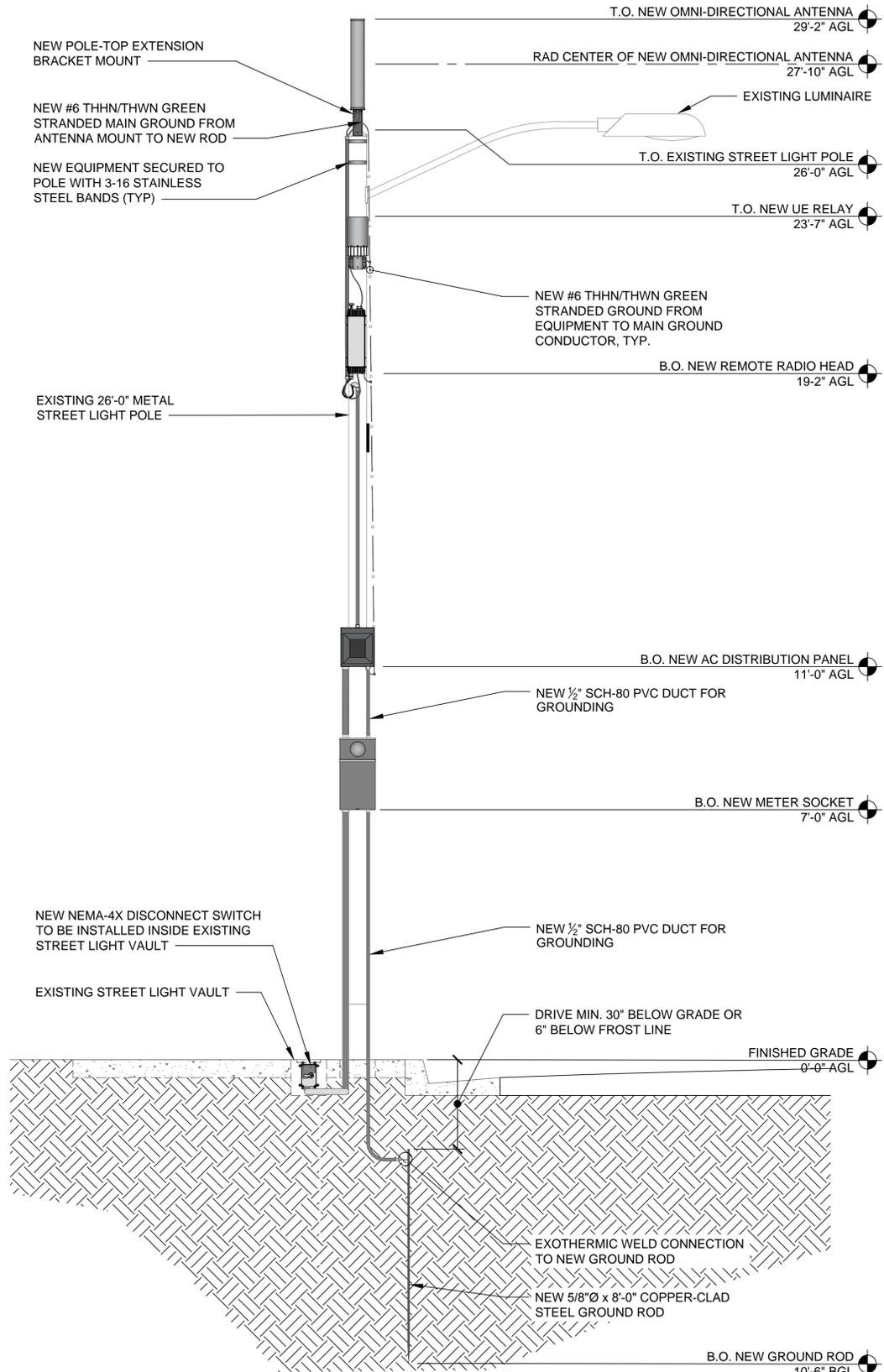
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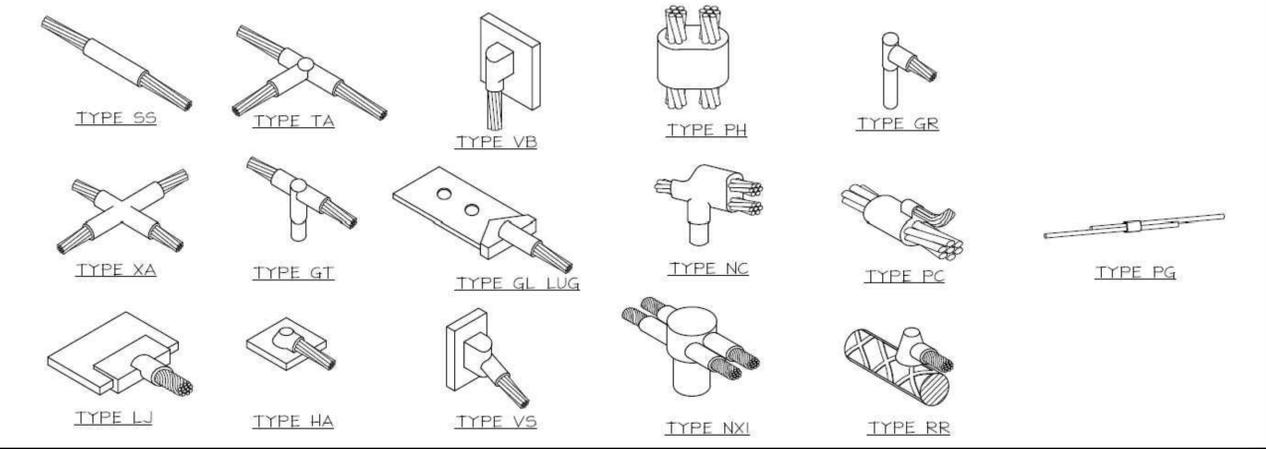
SHEET TITLE  
**GROUNDING PLAN**

SHEET NUMBER  
**G-1**



**NOTE:**  
ALL GROUND CONDUCTORS TO BE #6 THHN/THWN GREEN STRANDED COPPER UNLESS OTHERWISE NOTED OR REQUIRED BY EQUIPMENT MANUFACTURER.

**GROUNDING SCHEMATIC** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **1**



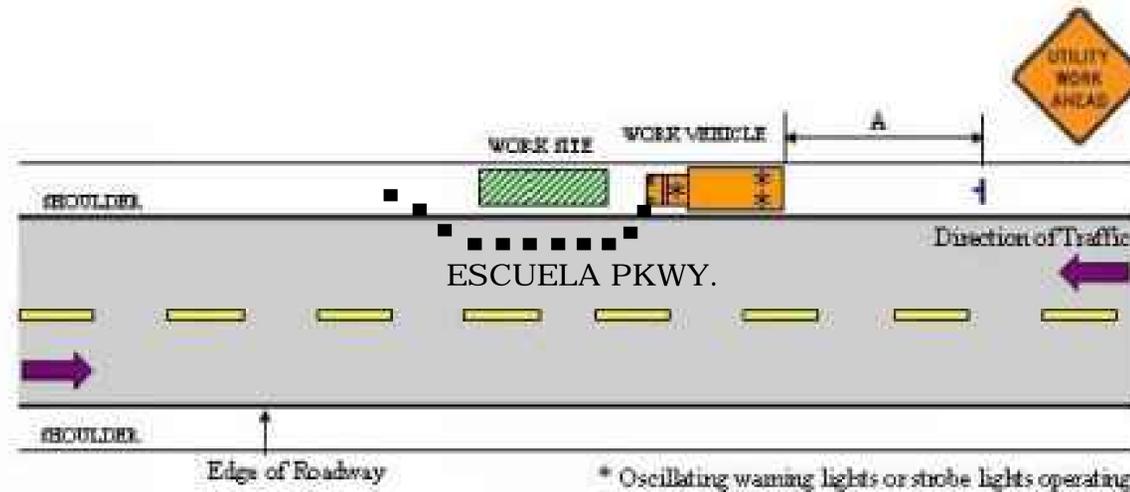
**TYPICAL CADWELD TYPES** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **2**

- GROUND BONDS:** ALL BONDS ARE TO BE MADE WITH #6 AWG STRANDED COPPER IN GREEN INSULATION. (ATT-TP-76416 7, 6.7)
- EXTERIOR UNIT BONDS:** ALL METALLIC OBJECTS SHALL BE BONDED TO THE GROUND ROD. (ATT-TP-76416 7, 12.6)
- GROUND ROD:** UL LISTED COPPER CLAD STEEL GROUND ROD WITH MINIMUM DIAMETER OF 5/8" AND MINIMUM LENGTH OF 8 FEET. ALL GROUND RODS MAY BE INSTALLED WITH INSPECTION SLEEVES. GROUND RODS SHALL BE DRIVEN TO A MINIMUM DEPTH OF 30" BELOW GRADE OR 6 INCHES BELOW FROST LINE. (ATT-TP-76416 1.4 / 2.2, 3, 10)

**GROUNDING NOTES** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **3**

**GROUNDING SCHEMATIC** 24"x36" SCALE: NTS 11"x17" SCALE: NTS **4**

# Utility Work On Shoulder (Low Traffic Volume And Low Speed)



Unit Selected	Feet
A (Distance Between Signs)	100

Speed (MPH)	Spacing (ft.)			
	A	B	C	D
40 or less	200	200	200	100
41 to 49	350	350	350	175
50 to 54	500	500	500	250
55 or greater	2640	1640	1000	500

Speed (MPH)	Distance (ft.)
25	155
30	200
35	250
40	305
45	360
50	425
55	495
60	570
65	645
70	730

- \* "ROAD WORK 1 MILE" sign may be used as an alternate to the "ROAD WORK AHEAD" sign
- \*\* 500' beyond the "ROAD WORK AHEAD" sign or midway between signs, whichever is less
- \*\*\* "BE PREPARED TO STOP" sign may be omitted for speeds of 45 MPH or less

## GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the opposite lane open to traffic.
- Additional one-way control may be effected by the following means:
  - Flag-carrying vehicle
  - Official vehicle
  - Pilot vehicle
  - Traffic signal
- The "ONE LANE ROAD" signs are to be fully covered and the "FLAGGER" signs either removed or fully covered when no work is being performed and the roadway is open to two-way traffic
- When a side road intersects the roadway within the TTC zone, additional TTC devices shall be placed in accordance with applicable TCZ Indexes.
- The two channelizing devices directly in front of the work area and the one channelizing device directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
- For general TCZ requirements and additional information, refer to MUTCD.

## DURATION NOTES

- "ROAD WORK AHEAD" and the "BE PREPARED TO STOP" signs may be omitted if all of the following conditions are met:
  - Work operations are 60 minutes or less
  - Speed limit is 45 MPH or less
  - No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space
  - Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating
  - Volume and complexity of the roadway has been considered

When Buffer Space cannot be attained due to geometric constraints, the greatest attainable length shall be used, but not less than 200 ft.

## CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCROACH THE AREA BETWEEN THE CENTERLINE AND A LINE 2' OUTSIDE THE EDGE OF TRAVEL WAY

CALIFORNIA TRANSMISSION NETWORK

SITE ACQUISITION

**SASCO**  
2750 Moore Avenue  
Fullerton, CA 92833  
(714) 870-0217

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A&E SERVICES

DRAWN BY:	SASCO
DATE:	11/06/2015

REV	DATE	DESCRIPTION	BY
0	01/21/2016	95% CONSTRUCTION	FA

IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, TO ALTER THIS DOCUMENT.

**SITE ID:**  
**9CAB009080**  
SITE NAME: SF90XSD36A  
ESCUELA PKWY. &  
WASHINGTON DR.  
MILPITAS, CA 95035  
EXISTING METAL STREET LIGHT

SHEET TITLE  
**TRAFFIC CONTROL PLAN**

SHEET NUMBER  
**TC-1**