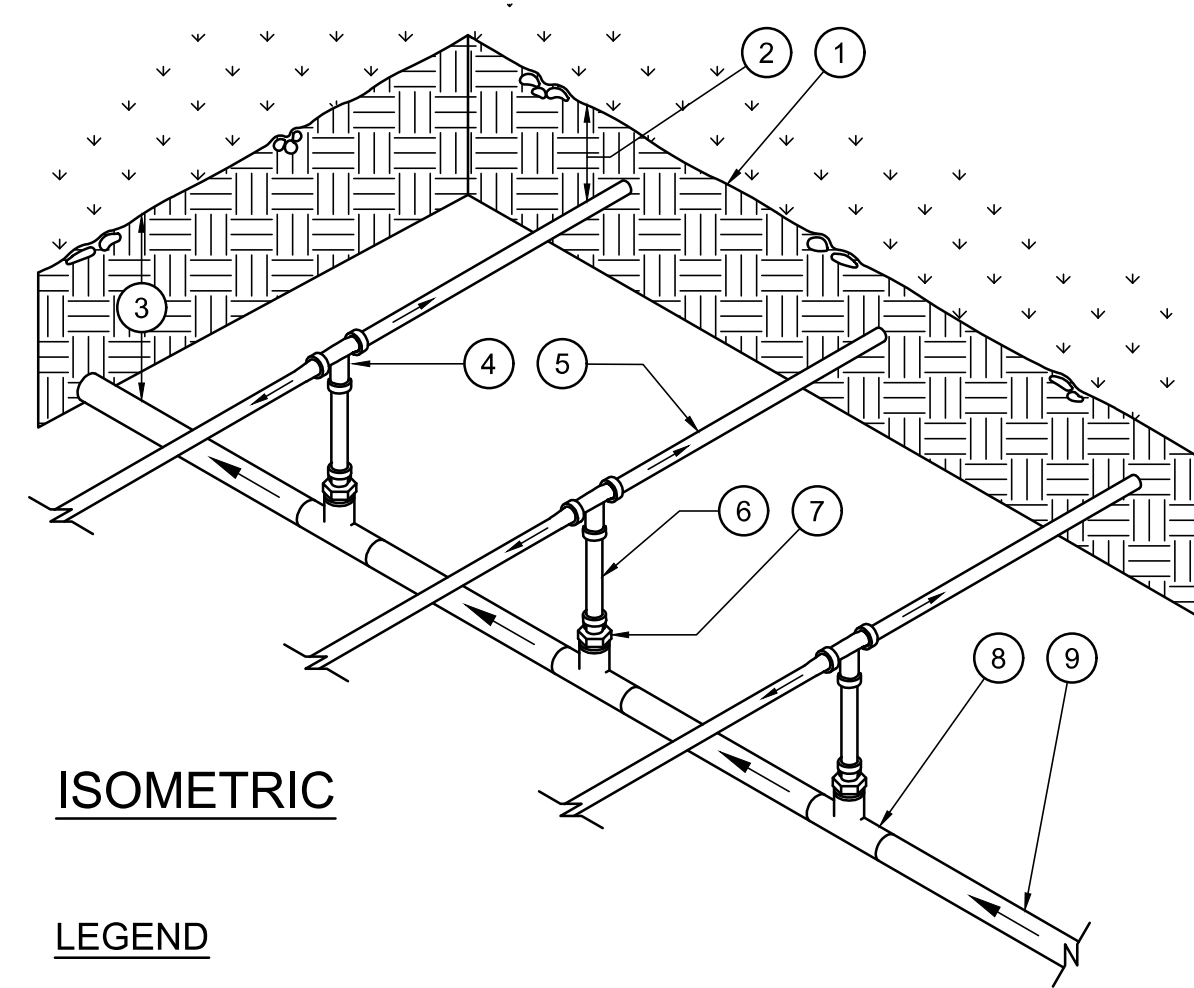


9 CENTER FEED INLINE DRIP LAYOUT
NOT TO SCALE

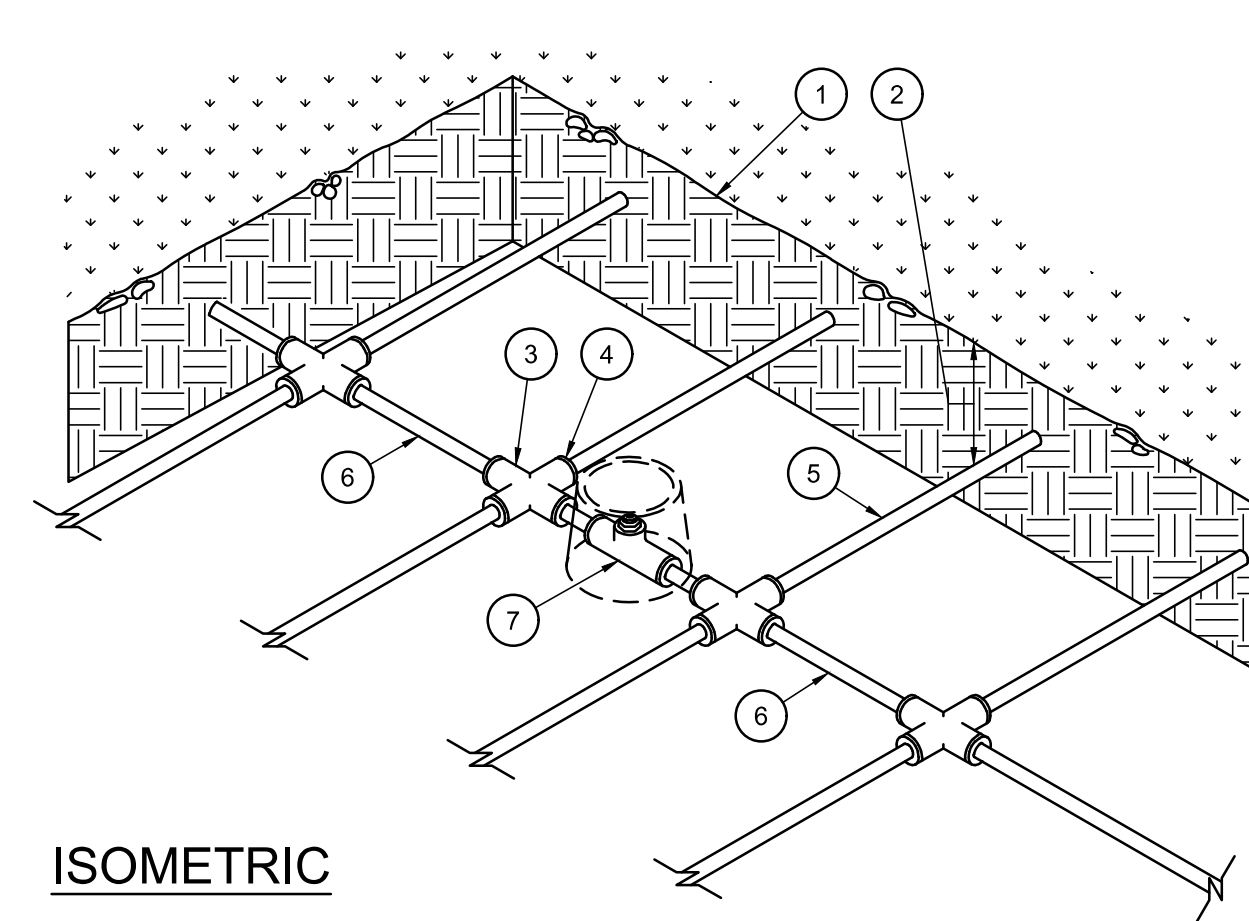


ISOMETRIC

LEGEND

- 1. FINISH GRADE.
- 2. DEPTH OF TUBING PER SPECIFICATIONS
- 3. DEPTH OF PVC SUPPLY MANIFOLD PER SPECIFICATIONS.
- 4. DRIPLINE TEE FITTING.
- 5. DRIPLINE LATERAL.
- 6. BLANK POLY TUBING, LENGTH AS NECESSARY.
- 7. DRIPLINE MPT ADAPTER.
- 8. PVC TEE (SxSxT) WITH 1/2" FPT OUTLET.
- 9. PVC SUPPLY MANIFOLD FROM REMOTE CONTROL VALVE ASSEMBLY.

10 CENTER FEED MANIFOLD
NOT TO SCALE

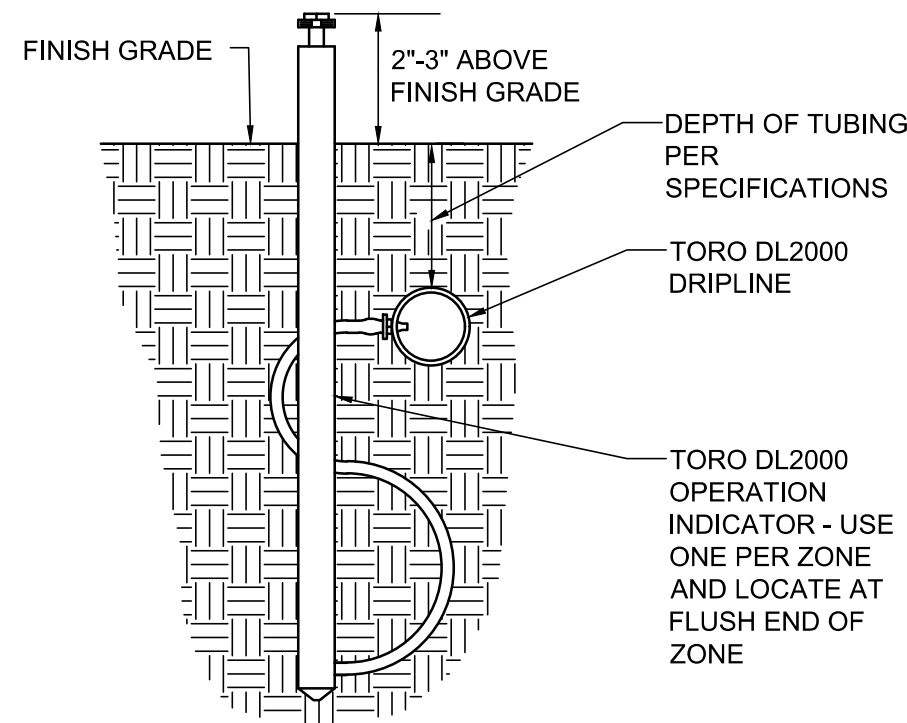


ISOMETRIC

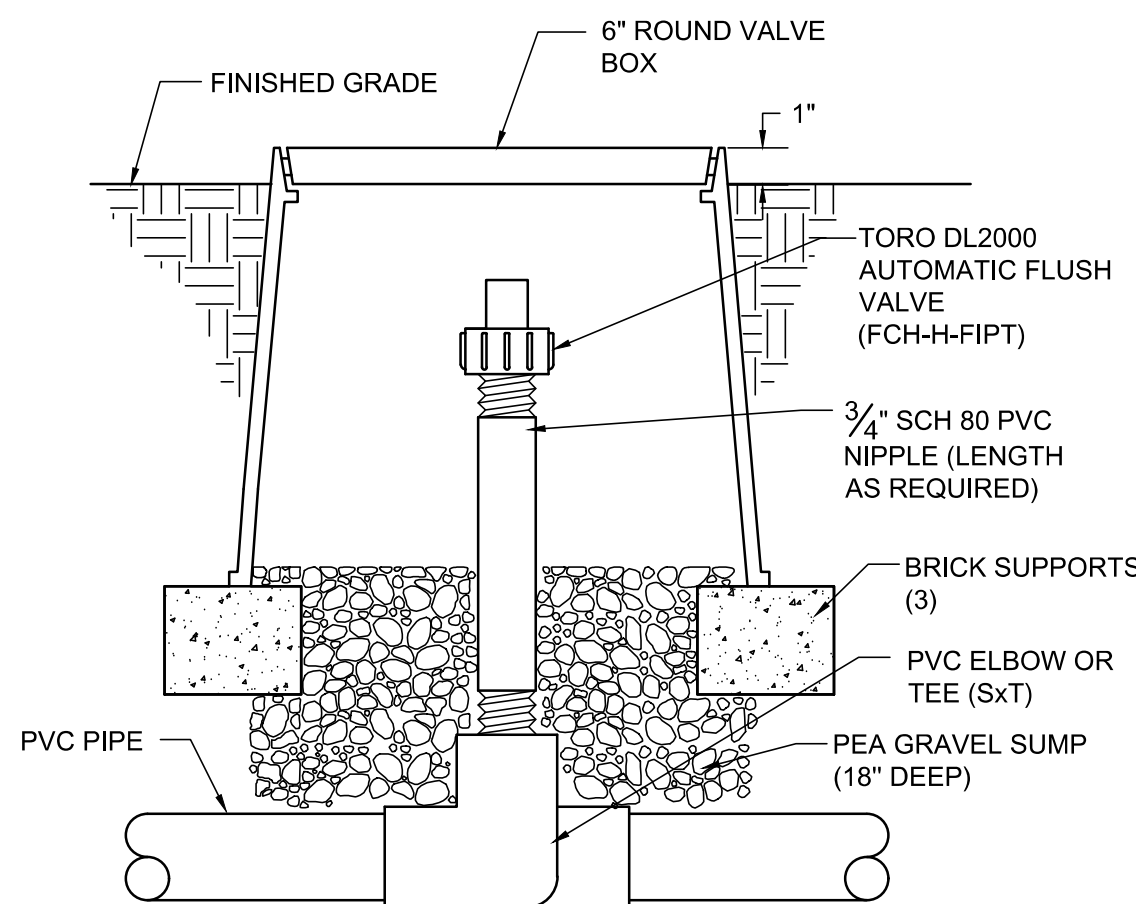
LEGEND

- 1. FINISH GRADE.
- 2. DEPTH OF TUBING PER SPECIFICATIONS
- 3. PVC CROSS (SxSxS).
- 4. COMPRESSION ADAPTER.
- 5. DRIPLINE LATERAL.
- 6. AIR/VACUUM RELIEF LATERAL, BLANK POLY TUBING CENTERED ON MOUND OR BERM
- 7. AIR/VACUUM RELIEF VALVE AT HIGH POINT. REFER TO AIR/VACUUM RELIEF VALVE DETAIL.

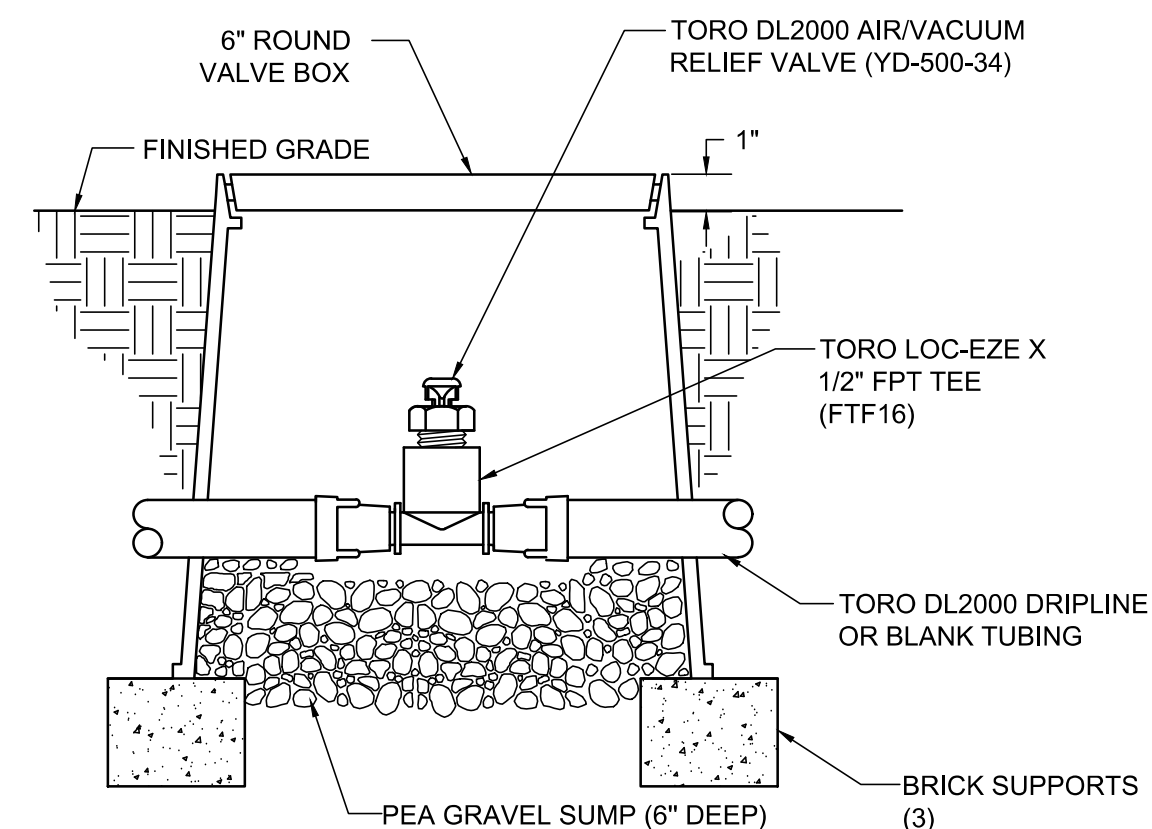
11 AIR/VACUUM RELIEF LATERAL
NOT TO SCALE



12 TORO DL2000 OPERATION INDICATOR
NOT TO SCALE



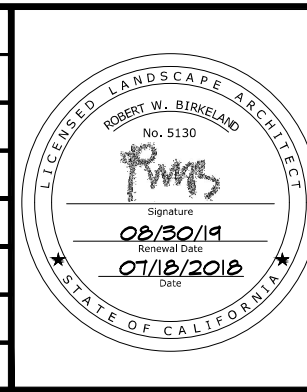
13 TORO DL2000 AUTOMATIC FLUSH VALVE - PLUMBED TO PVC
NOT TO SCALE



14 TORO DL2000 AIR/VACUUM RELIEF VALVE - PLUMBED TO TUBING
NOT TO SCALE

DRAWING NAME: S:\Client Files\Placeworks\Projects\Cross Alameda Trail 1 2\dwgs\2 Submittal\L-1, 2, 3, 4, 5, 6, 7-IRRIGATION-DT-REF.dwg PLOT DATE: 06-14-18 PLOTTED BY: jonet

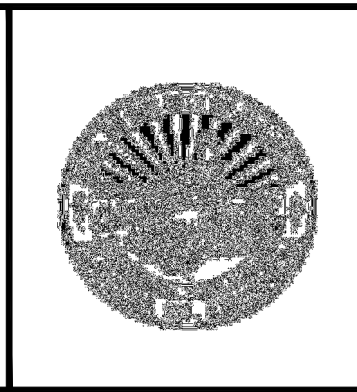
No.	Date	Revisions



BKF 1646 N. CALIFORNIA BLVD SUITE 400 WALNUT CREEK, CA 94596 PHONE 925-940-2200 FAX 925-940-2299

PLACEWORKS

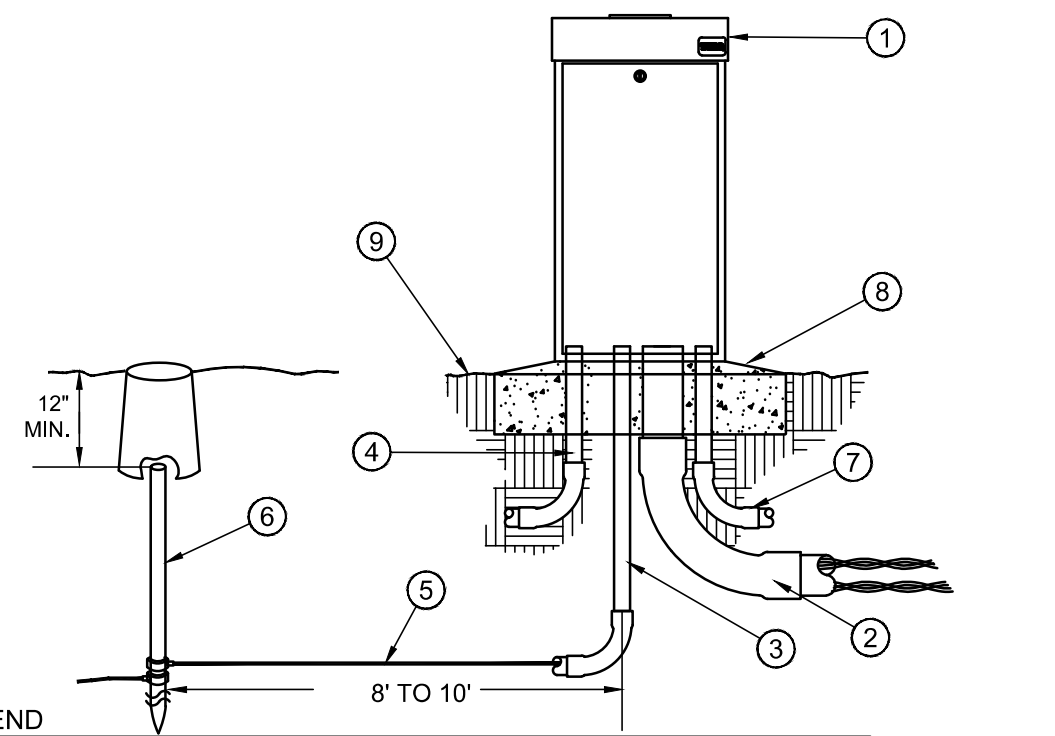
Date 07/18/2018	Scale 1" = 10'	Job No. 20145190
Design 100% PSE	Drawn JL	Approved JL



**CROSS ALAMEDA TRAIL
MAIN STREET TO WEBSTER STREET
Webster Irrigation Details**

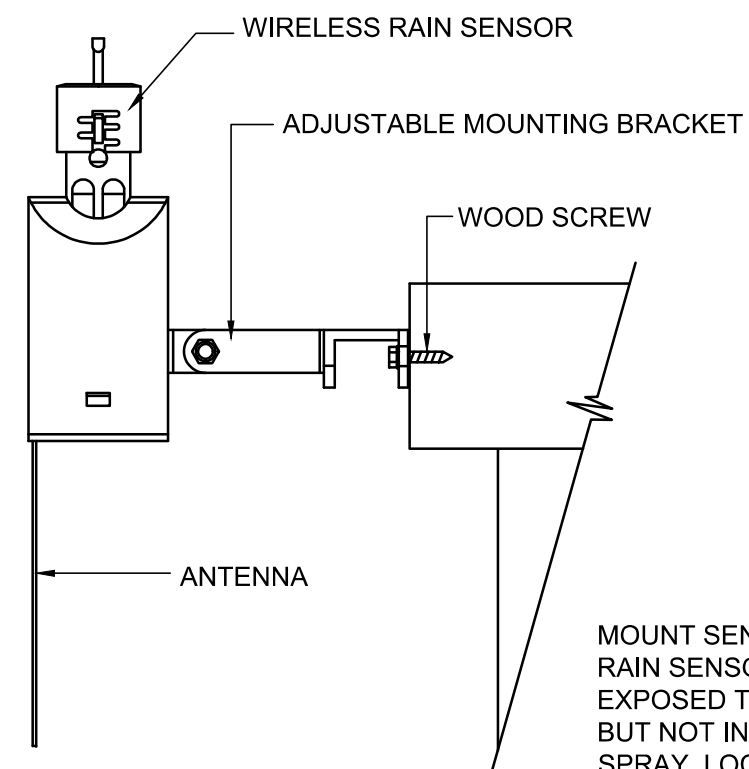
CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
IR-4



- LEGEND**
- 1. SENTINEL TOP ENTRY CONTROLLER
 - 2. 2" CONDUIT FOR TWO WIRE DECODER CABLES.
 - 3. 3/4" CONDUIT FOR GROUND.
 - 4. 3/4" CONDUIT FOR INPUT POWER PER LOCAL AND NATIONAL ELECTRICAL CODES
 - 5. COPPER CLAD GROUND WIRE
 - 6. GROUNDING ROD IN VALVE BOX
 - 7. 1/2" CONDUIT FOR FLOW SENSOR CABLE.
 - 8. POURED CONCRETE BASE - 6" MIN. THICKNESS - EXTEND 6" BEYOND EACH SIDE OF ENCLOSURE W/1/2% SLOPE FOR DRAINAGE.
 - 9. FINISH GRADE.

15 TWO-WIRE CONTROLLER - TOP ENTRY
NOT TO SCALE

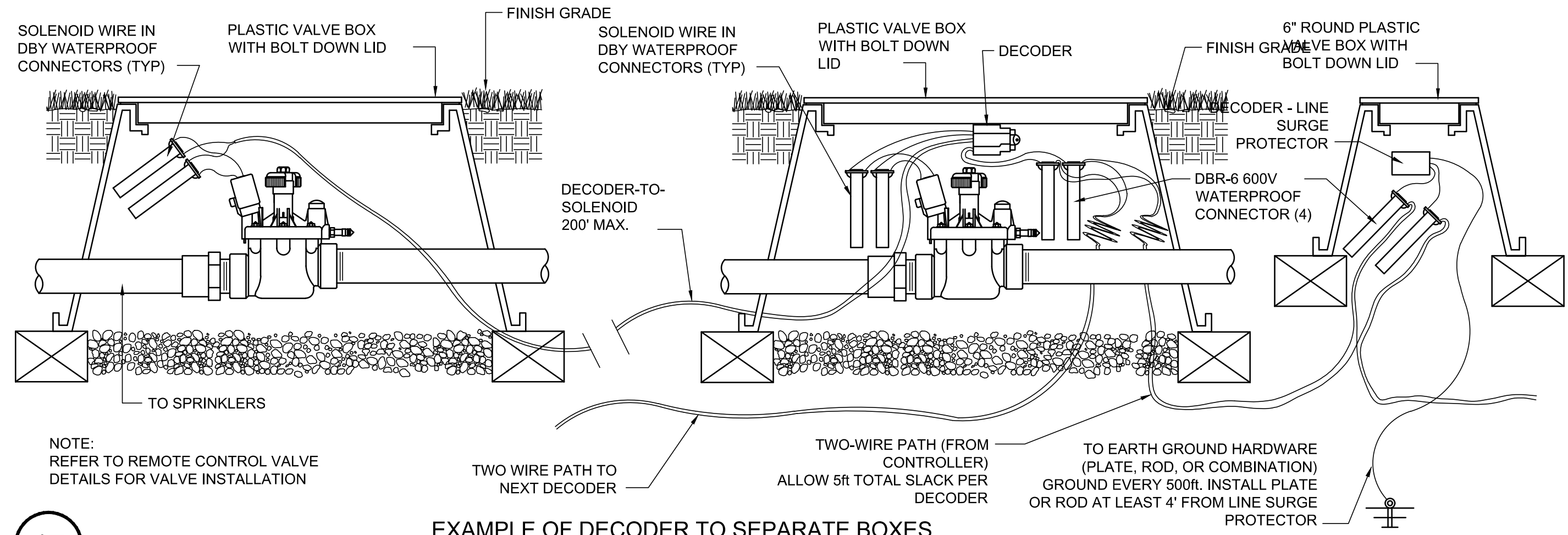


MOUNT SENSOR VERTICALLY. MOUNT RAIN SENSOR WHERE IT WILL BE EXPOSED TO UNOBSTRUCTED RAINFALL BUT NOT IN THE PATH OF SPRINKLER SPRAY. LOCATE WITHIN 300 FEET OF SENSOR RECEIVER AND CONTROLLER.

16 WIRELESS RAIN SENSOR INSTALLATION DETAIL
NOT TO SCALE

TWO-WIRE CONTROLLER NOTES:

1. REFER TO MANUFACTURER'S DOCUMENTATION FOR COMPLETE INSTALLATION INSTRUCTIONS.
2. PROVIDE EARTH GROUND PROTECTION. THE GROUND PATH MUST BE AS DIRECT AS POSSIBLE WITH NO SHARP BENDS AND MUST NOT EXCEED 25 OHM RESISTANCE. USE A 5/8" X 8' COPPER-CLAD STEEL ROD OR 5 SQUARE FEET COPPER GROUNDING PLATES AND INSTALL NOT LESS THAN 8' AND NOT MORE THAN 12' FROM THE CONTROLLER OR TWO-WIRE PATH.
3. LIGHTNING ARRESTERS (TW-LA-1) SHALL BE INSTALLED A MINIMUM OF EVERY 600' ALONG THE TWO-WIRE PATH, IN A VALVE BOX, AND GROUNDED ACCORDINGLY.
4. THE STATION DECODER MODULES ARE AVAILABLE IN 1-STATION, 2-STATION, AND 4-STATION CONFIGURATIONS. INSTALL DECODERS IN VALVE BOX WITH A REMOTE CONTROL VALVE. MAXIMUM DISTANCE BETWEEN DECODER AND SOLENOID IS 200'. FOR UNUSED OUTPUT WIRES, INSTALL A WIRE NUT ON EACH WIRE AND PLACE IN A TW-SPLICE-14 WIRE CONNECTOR.
5. USE ONLY MANUFACTURER RECOMMENDED TWO WIRE CABLE (TW-CAB-14)
6. CABLE SHOULD BE BURIED NO LESS THAN 24" DEEP.
7. USE RAINMASTER TW-SPLICE-14 WIRE CONNECTORS ONLY.
8. LOOP TWO WIRE PATH AT ALL CORNERS, SPLICES (2' LOOP) AND IN PULL BOX IF DISTANCE FROM VALVE TO VALVE EXCEEDS 100'.

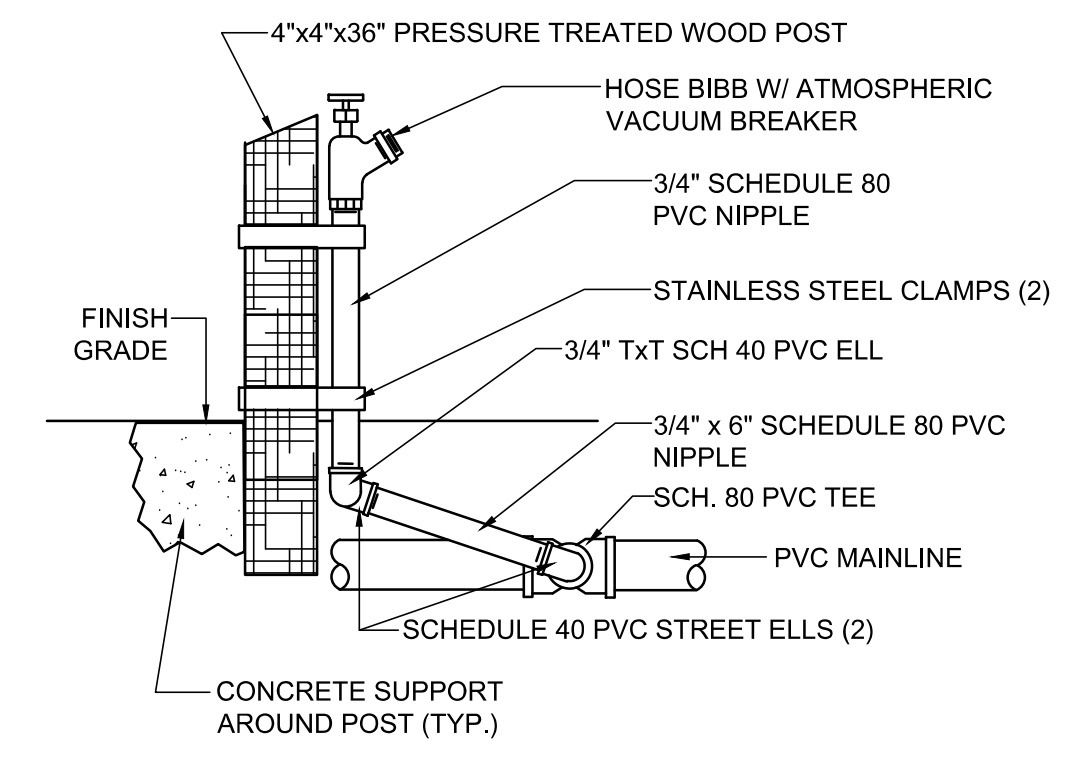


NOTE: REFER TO REMOTE CONTROL VALVE DETAILS FOR VALVE INSTALLATION

TO SPRINKLERS

TO EARTH GROUND HARDWARE (PLATE, ROD, OR COMBINATION) GROUND EVERY 500ft. INSTALL PLATE OR ROD AT LEAST 4' FROM LINE SURGE PROTECTOR

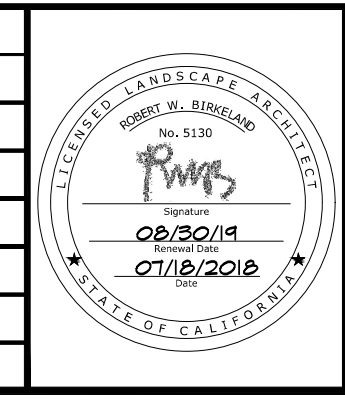
17 EXAMPLE OF DECODER TO SEPARATE BOXES
NOT TO SCALE



18 HOSE BIBB DETAIL
NOT TO SCALE

DRAWING NAME: S:\Client Files\Placeworks\Projects\Cross Alameda Trail 2\dwgs\2_Submittal\L-1_2_3_4_5_6_7-IRRIGATION-DT-REF.dwg
PLOT DATE: 06-14-18
PLOTTED BY: janet

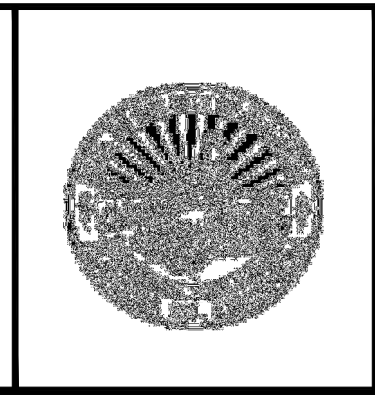
No.	Date	Revisions



BKF ENGINEERS / SURVEYORS / PLANNERS

1646 N. CALIFORNIA BLVD
SUITE 400
WALNUT CREEK, CA 94596
PHONE 925-940-2200
FAX 925-940-2299

Date 07/18/2018 Scale 1" = 10' Job No. 20145190
Design 100% PSE Drawn JL Approved JL

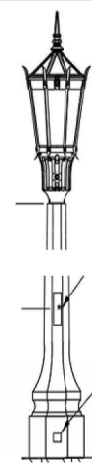


**CROSS ALAMEDA TRAIL
MAIN STREET TO WEBSTER STREET
Webster Irrigation Details**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
IR-5

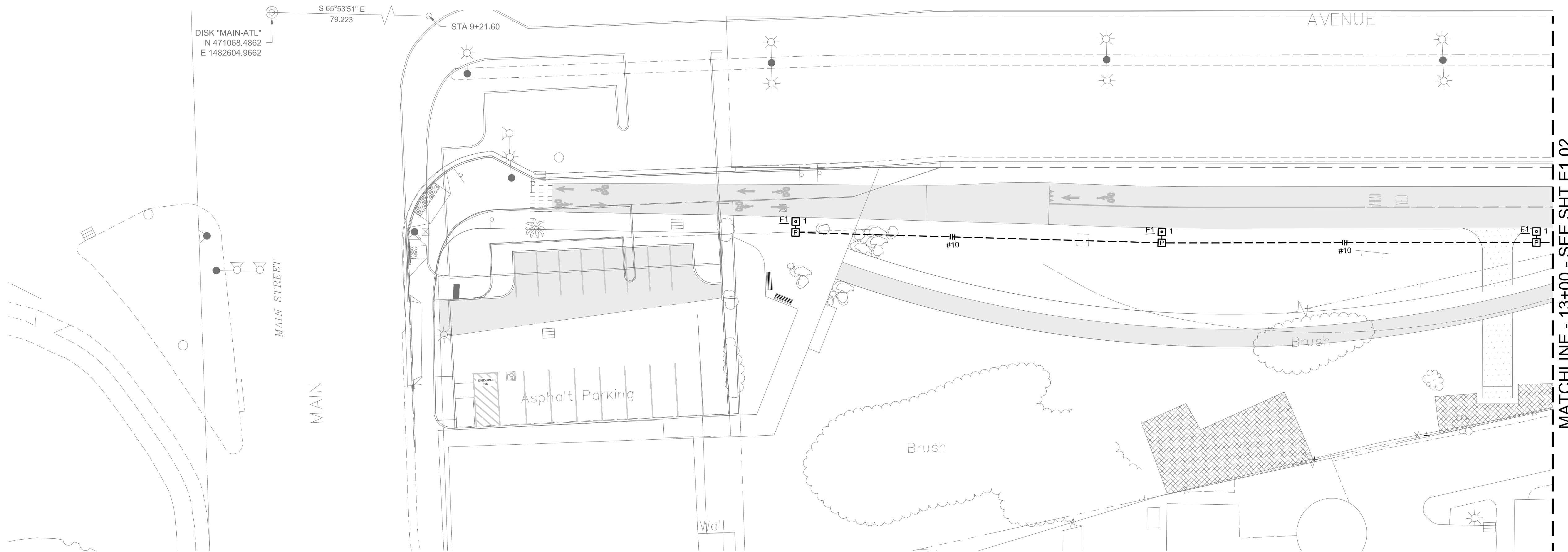
LIGHTING SCHEDULE

TYPE	IMAGE	MANUFACTURER & CATALOG NUMBER	LAMP TYPE	WATTS	VOLTAGE	DESCRIPTION
F1		KING LUMINAIRE: POLE: KBC12-G-S11-DB-AG-C/W 140-35/35 LUMINAIRE K56-S-K24-P4AR-III/V-60W/SSL0-7030-240-7-PR-36 IES TYPE3	4000K, 80CRI LED 80,000 HOURS RATED LIFE	60	240	CITY OF ALAMEDA STANDARD. POLE MOUNTED POST-TOP LED EXTERIOR AREA LUMINAIRE WITH TUDOR LANTERN STYLE HEAD (WITH SPURS), FLAT ARRAY ACRYLIC RIPPLED OPTICS (TYPE III), BLACK TEXTURED PAINT FINISH AND K24 CAPITAL POLE ADAPTER. POLE: OCTAGONAL 12" POLE WITH ECLIPSE POLISHED FINISH, 5.5" POLE TOP, 9.5" DIAMETER POLE BUTT AND 2"X 8" HANDHOLE. PROVIDE ONE ANTI-GRAFFITI COATING.

PROJECT: ALAMEDA CAT RAMP
LOCATION: EXTERIOR POWER PEDESTAL

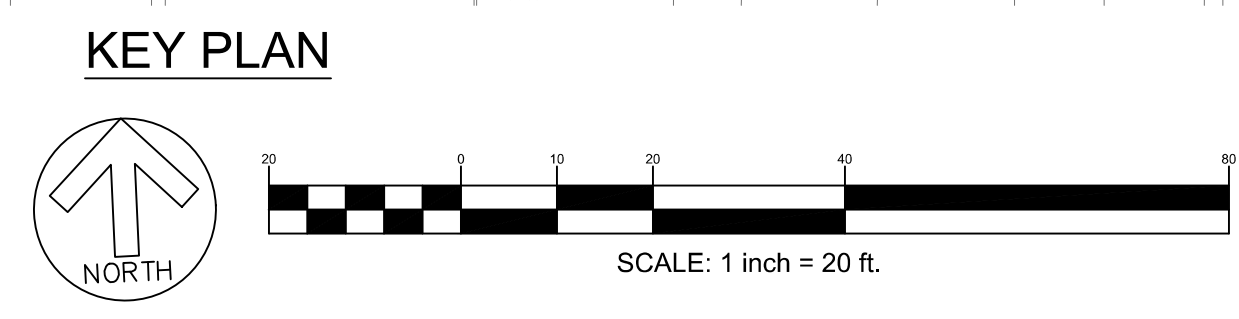
PANEL - LA

LOAD SERVED	LOAD (KVA)			C. B.		A	B	LOAD (KVA)			LOAD SERVED	
	LTG.	RECP.	OTHER	AMP	POLE			AMP	POLE	LTG.		RECP.
WEST TRAIL, BIKE PATH LTG	0.3			20	2	1		20	2	0.3		EAST TRAIL, BIKE PATH LTG
WEST TRAIL, BIKE PATH LTG	0.3			20	2	5		20	2	0.3		EAST TRAIL, BIKE PATH LTG
(F) MONUMENT LTG	0.3			20	2	9		20	1	0.3		SPARE
SPARE				20	1	13		20	1			SPARE
SPARE				20	1	15		20	1			SPARE
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A
E1.01 SITE ELECTRICAL PLAN

- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

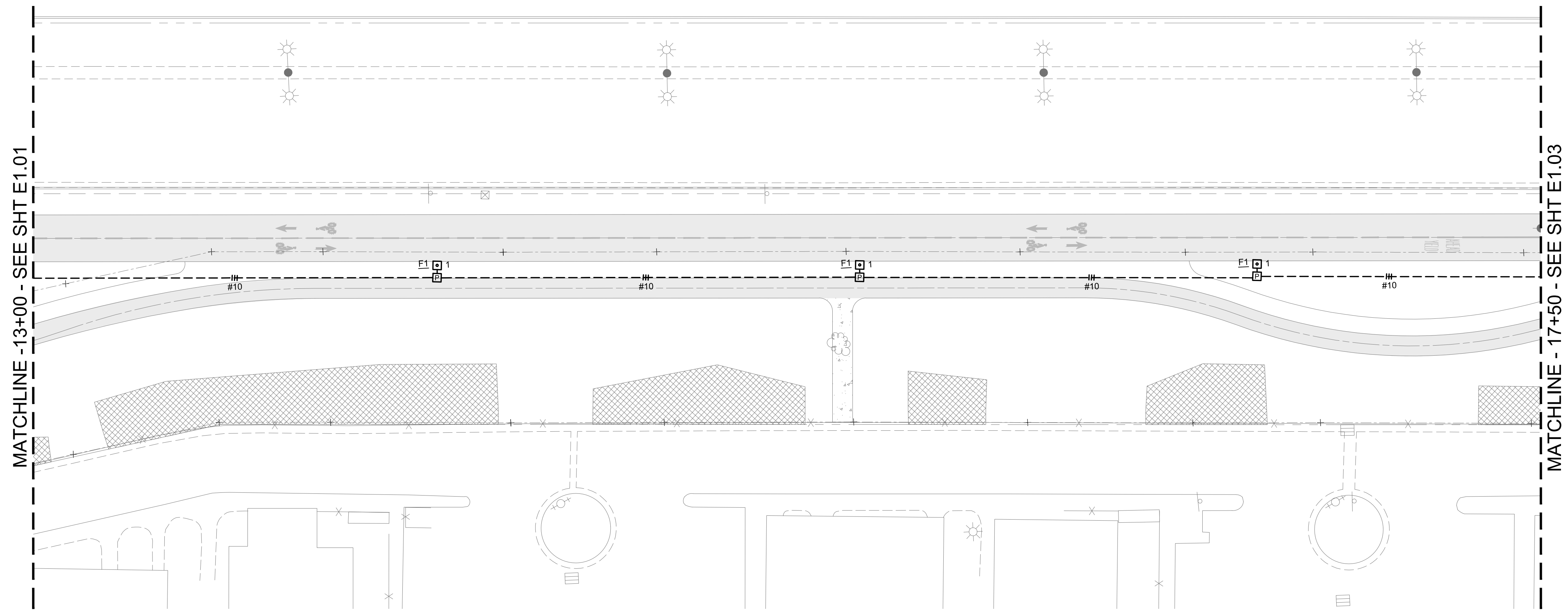
Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.01

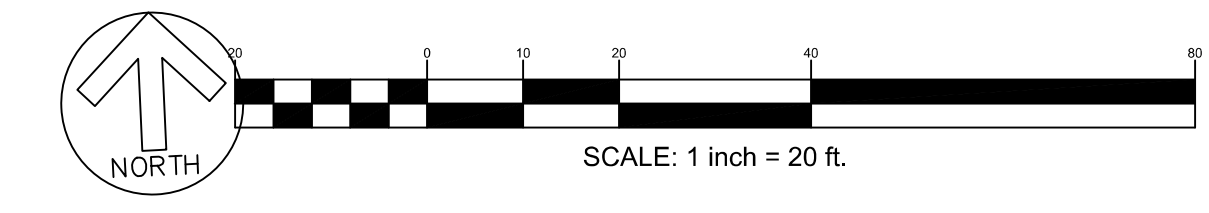


A
E1.02 SITE ELECTRICAL PLAN


- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



KEY PLAN



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date	07/18/18	Scale	AS SHOWN	Job No.	20145190
Design	CF	Drawn	EG	Approved	CF



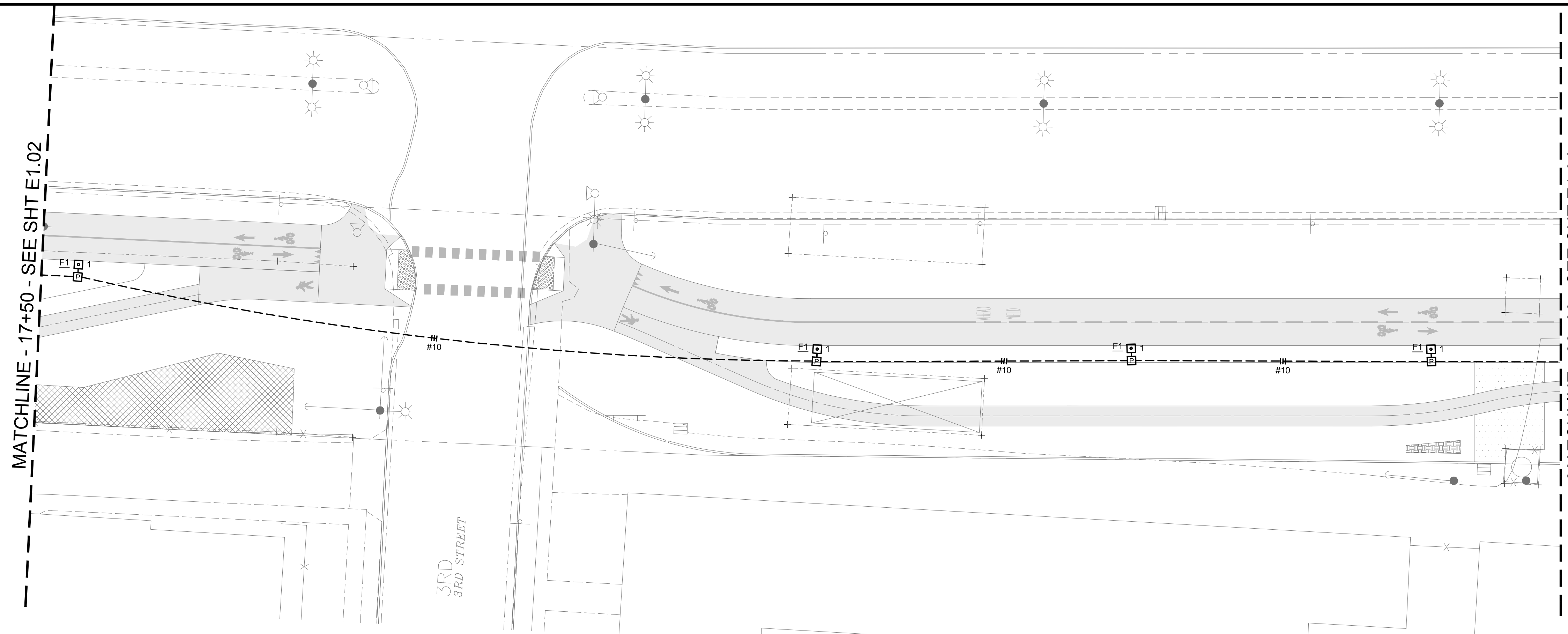
**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.02

MATCHLINE - 17+50 - SEE SHT E1.02

MATCHLINE - 22+00 - SEE SHT E1.04

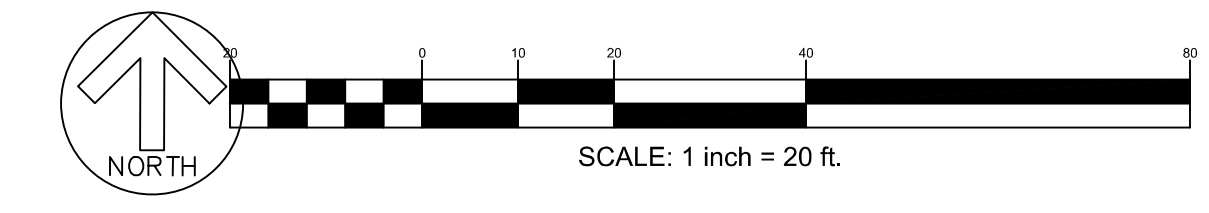


A
E1.03
SITE ELECTRICAL PLAN

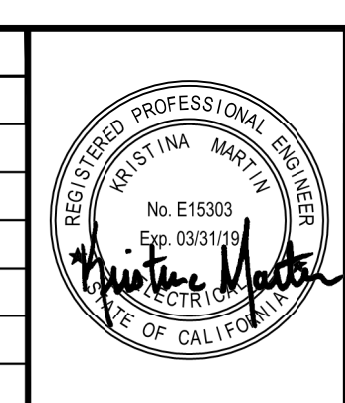
NUMBERED SHEET NOTES	GENERAL SHEET NOTES
<ol style="list-style-type: none"> 1 PROVIDE POLE RISER PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/ REQUIREMENTS. EXTEND UNDERGROUND PVC SCHEDULE 40 CONDUIT A MINIMUM OF 6" ABOVE GRADE UP POLE. 2 PROVIDE CONCRETE SECONDARY PULLBOX PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/REQUIREMENTS. REFER TO DETAIL A/E2.01. INSTALL PULLBOX PER ALAMEDA MUNICIPAL POWER (AMP) INSTALLATION REQUIREMENTS. 3 PROVIDE POWER SERVICE UNDERGROUND CONDUIT PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/REQUIREMENTS. INSTALL CONDUIT PER ALAMEDA MUNICIPAL POWER (AMP) INSTALLATION REQUIREMENTS. CODE-SIZED SERVICE COPPER CONDUCTORS INSTALLED AND ROUTED THROUGH CONDUIT SHALL HAVE PHASE-IDENTIFYING COLOR TAPE AND SERVICE ADDRESS IDENTIFICATION. REFER TO DETAIL B/E2.01 FOR UTILITY TRENCH DETAIL. 4 60-AMP SINGLE-PHASE METERING/MAIN PEDESTAL. REFER TO DETAIL E/E2.01 FOR MOUNTING AND ALAMEDA MUNICIPAL POWER (AMP) PRODUCT SPECIFICATIONS. 	<ol style="list-style-type: none"> 1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED. 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE. 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE. 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS. 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



KEY PLAN



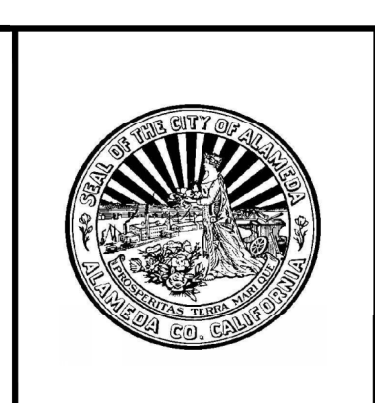
No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



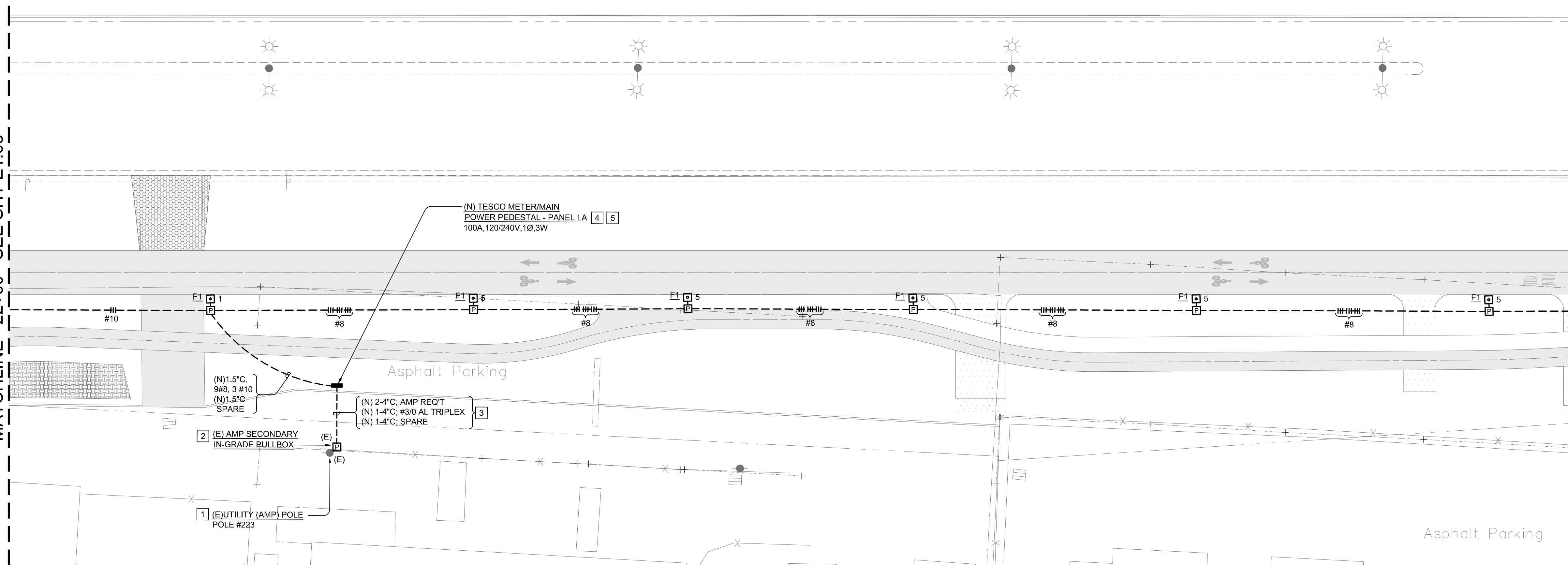
**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.03

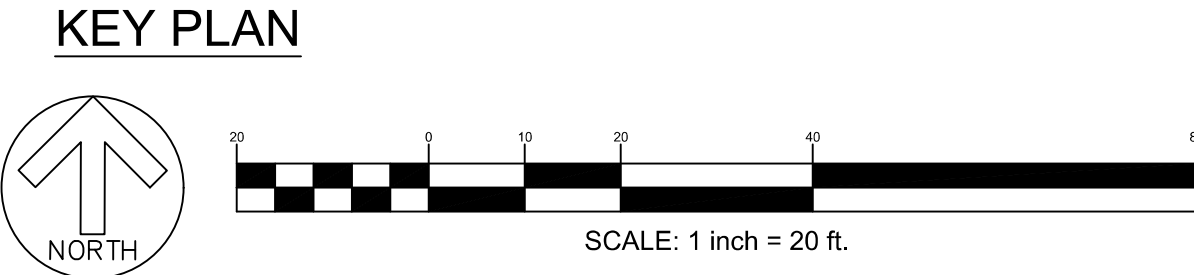
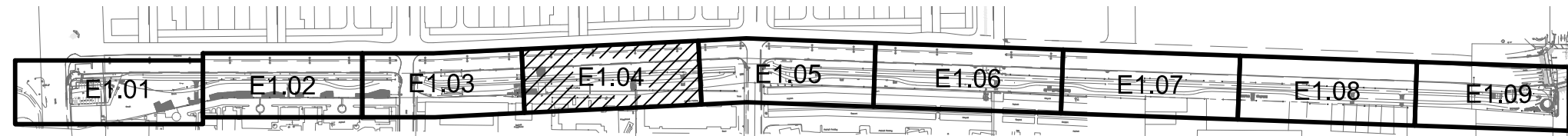
MATCHLINE - 22+00 - SEE SHT E1.03

MATCHLINE - 27+00 - SEE SHT E1.05



A SITE ELECTRICAL PLAN
E1.04

NUMBERED SHEET NOTES	GENERAL SHEET NOTES
<ol style="list-style-type: none"> EXISTING ALAMEDA MUNICIPAL POWER (AMP) UTILITY POLE (AMP POLE #223). EXISTING ALAMEDA MUNICIPAL POWER (AMP) 30" X 48" IN-GRADE SECONDARY POWER PULLBOX. SPLICE NEW CONDUCTORS TO EXISTING CABLE IN PULLBOX (SPLICING BY ALAMEDA MUNICIPAL POWER). NEW POWER SECONDARY SERVICE CONDUIT AND CONDUCTORS. CONTRACTOR TO PROVIDE AND INSTALL UNDERGROUND CONDUIT/CONDUCTORS PER ALAMEDA MUNICIPAL POWER (AMP) STANDARDS/REQUIREMENTS. REFER TO DETAIL D/E2.01 FOR UTILITY TRENCH SECTION. 100 AMP, 120/240V, SINGLE-PHASE TESCO METER/MAIN POWER PEDESTAL. REFER TO DETAIL A/E2.01 FOR MOUNTING, GROUNDING AND ALAMEDA MUNICIPAL POWER (AMP) PRODUCT SPECIFICATIONS. PROVIDE BARRIER PROTECTION AROUND TESCO METER/MAIN POWER PEDESTAL. REFER TO DETAIL E/E2.01 	<ol style="list-style-type: none"> ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED. REFER TO SHEET E0.01 FOR PANEL SCHEDULE. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers
THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

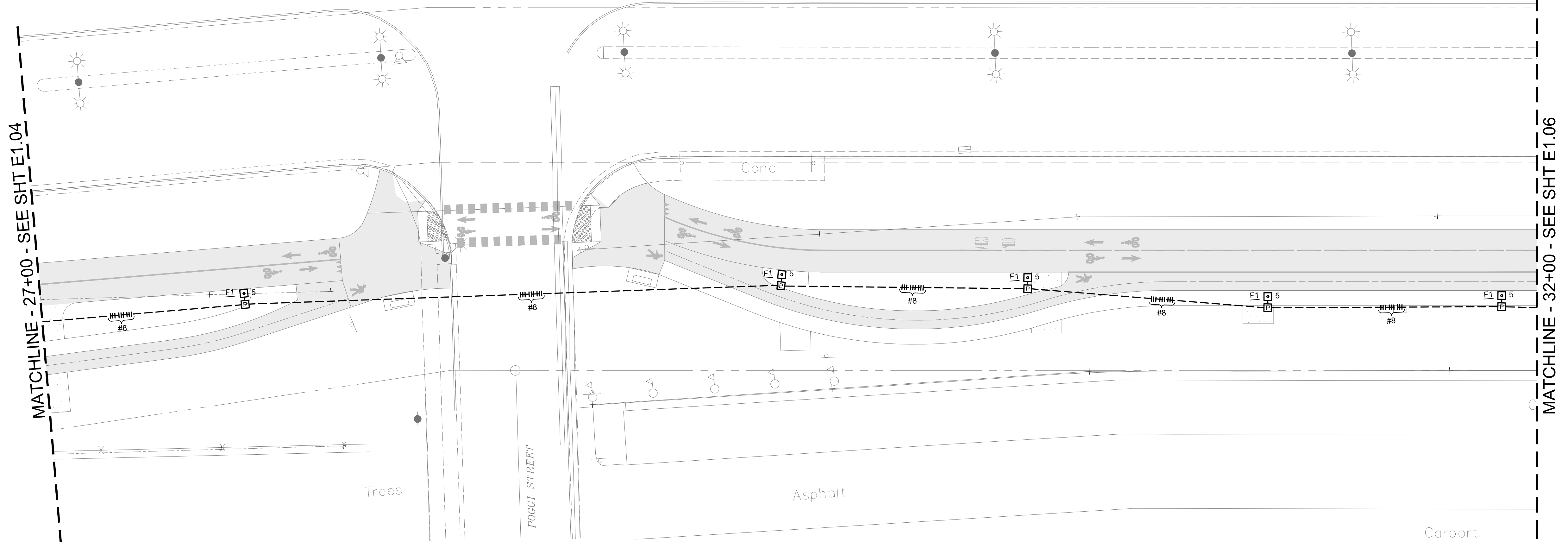
Date	07/18/18	Scale	AS SHOWN	Job No.	20145190
Design	CF	Drawn	EG	Approved	CF



CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN

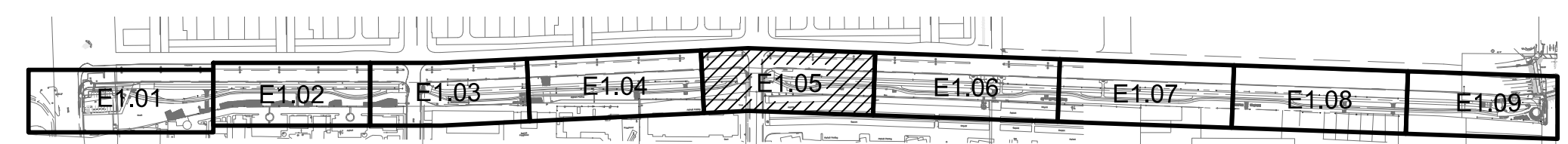
CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.04



A
E1.05
SITE ELECTRICAL PLAN

- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS

The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

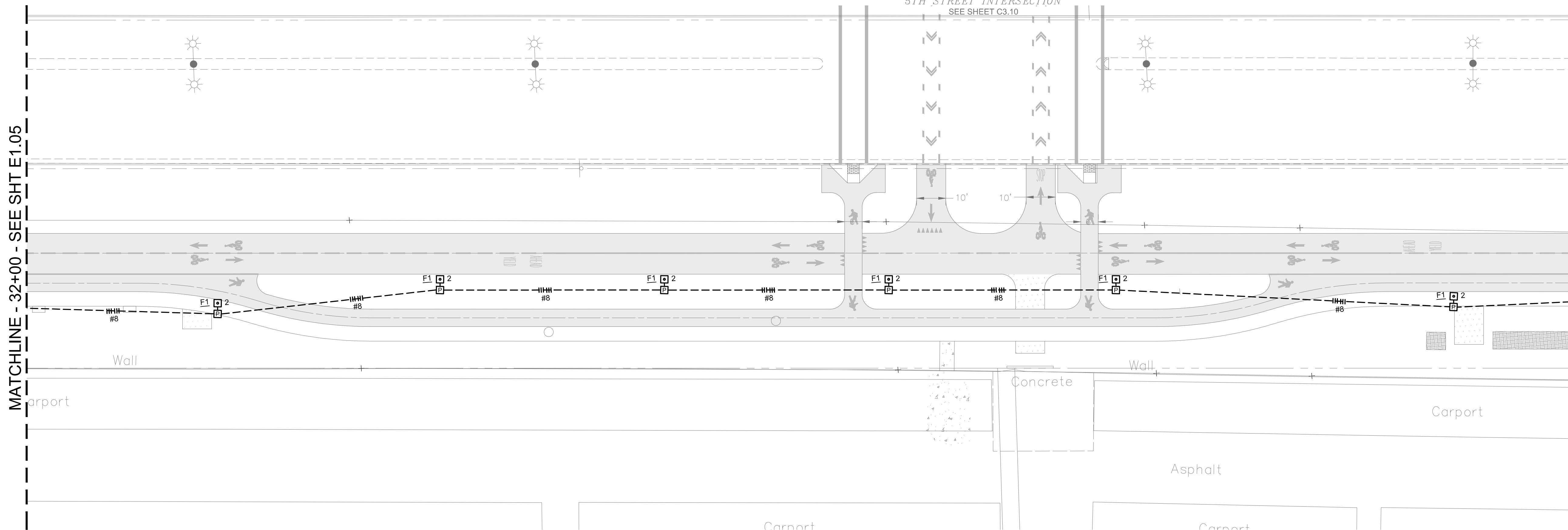
CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.05

5TH STREET INTERSECTION
SEE SHEET C3.10

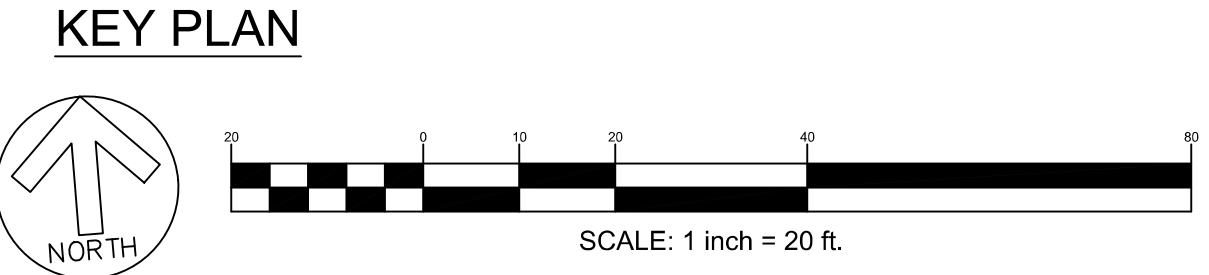
MATCHLINE - 32+00 - SEE SHT E1.05

MATCHLINE - 37+30 - SEE SHT E1.07



A
E1.06
SITE ELECTRICAL PLAN

- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



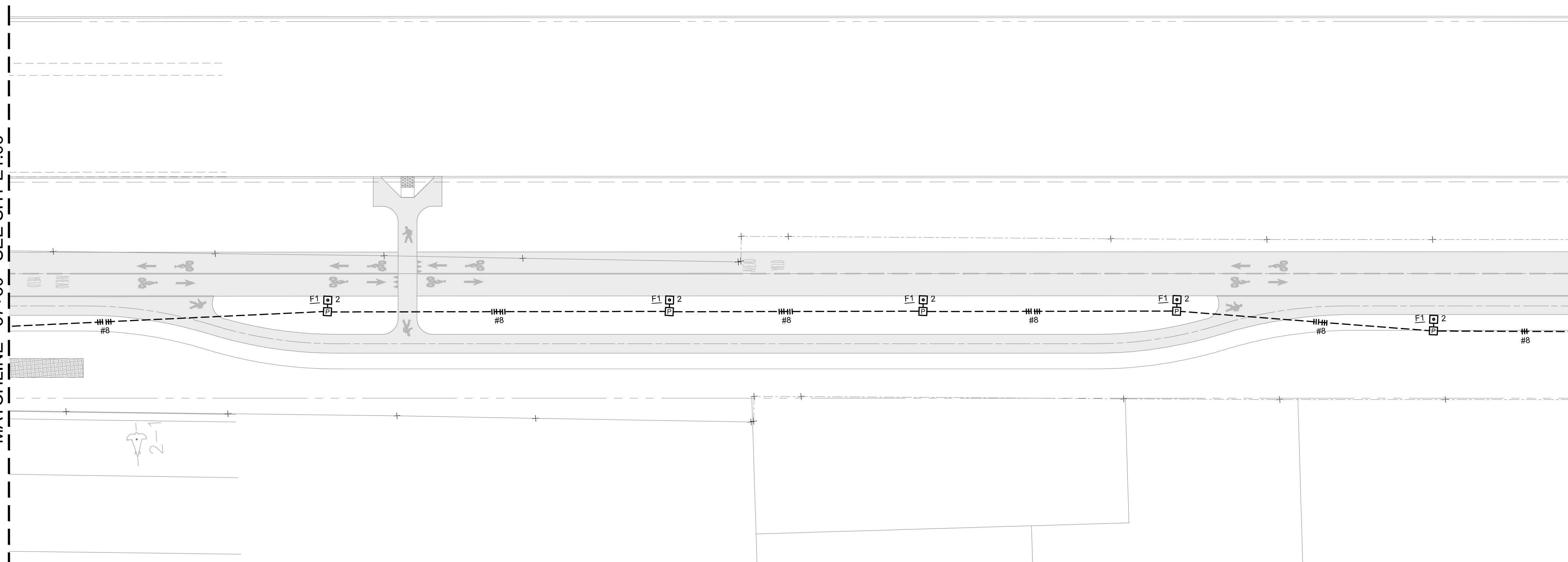
**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.06

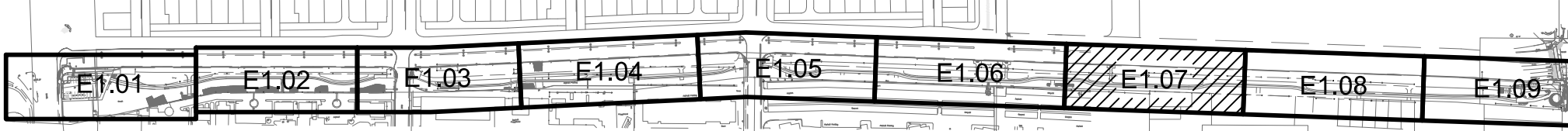
MATCHLINE - 37+30 - SEE SHT E1.06

MATCHLINE - 42+30 - SEE SHT E1.08

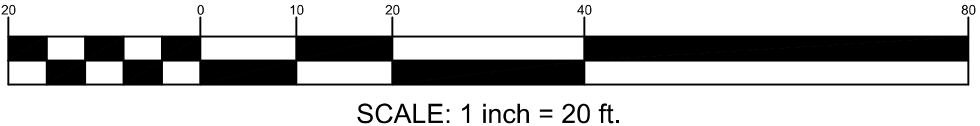
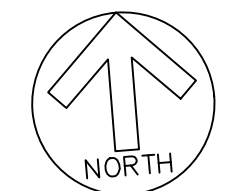


A
E1.07
SITE ELECTRICAL PLAN

- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
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 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
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KEY PLAN



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers
THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



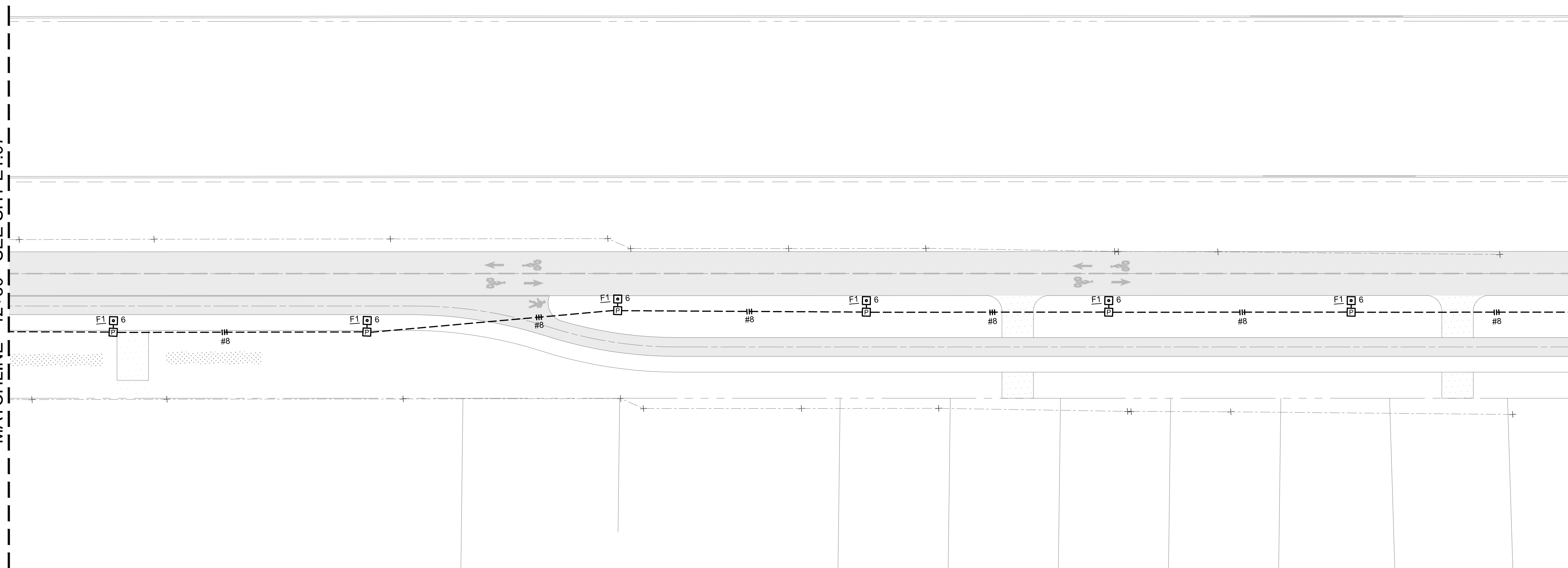
**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E1.07

MATCHLINE - 42+30 - SEE SHT E1.07

MATCHLINE - 47+30 - SEE SHT E1.09



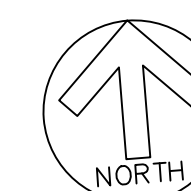
A
E1.08 **SITE ELECTRICAL PLAN**

GENERAL SHEET NOTES

1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.

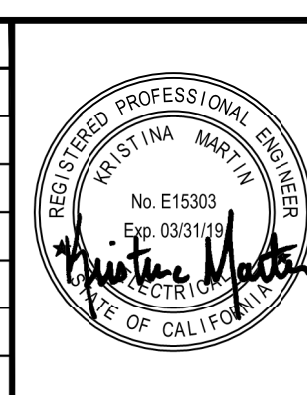


KEY PLAN



SCALE: 1 inch = 20 ft.

No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date	07/18/18	Scale	AS SHOWN	Job No.	20145190
Design	CF	Drawn	EG	Approved	CF

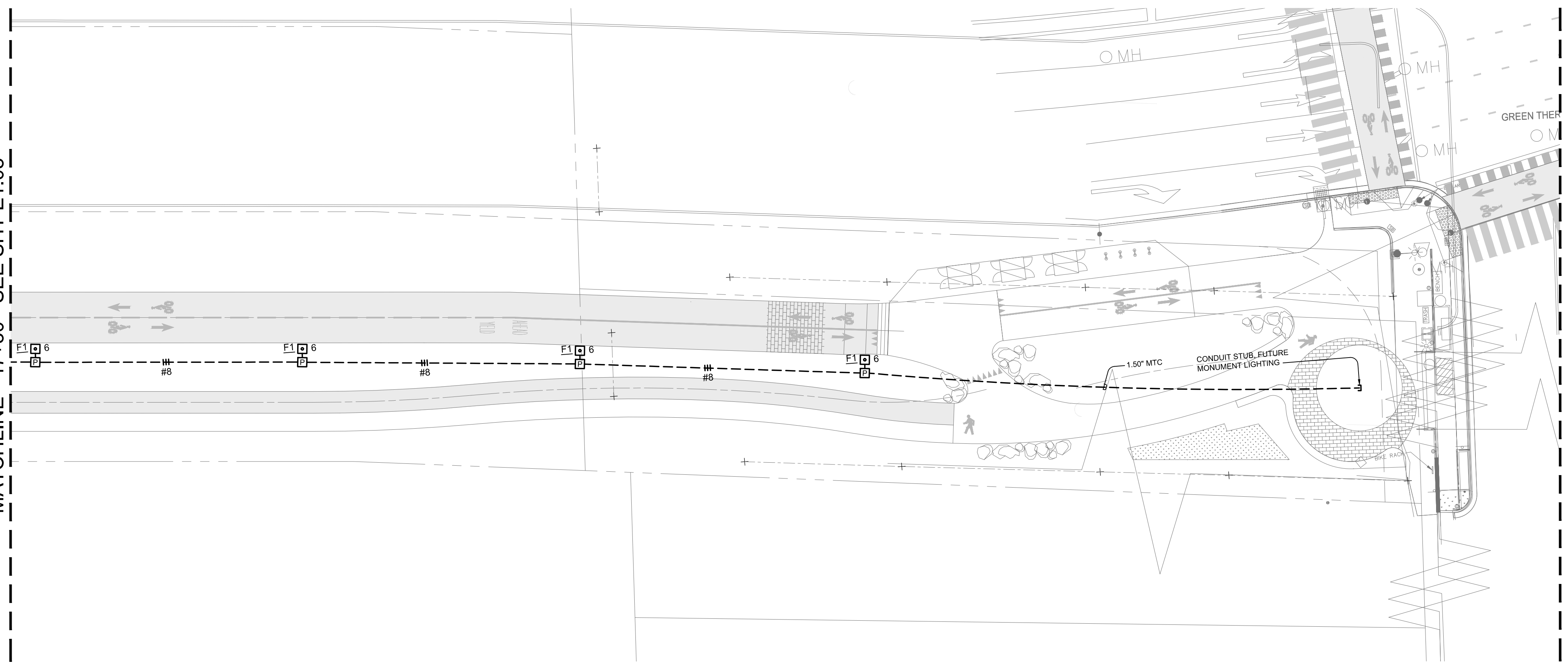


**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

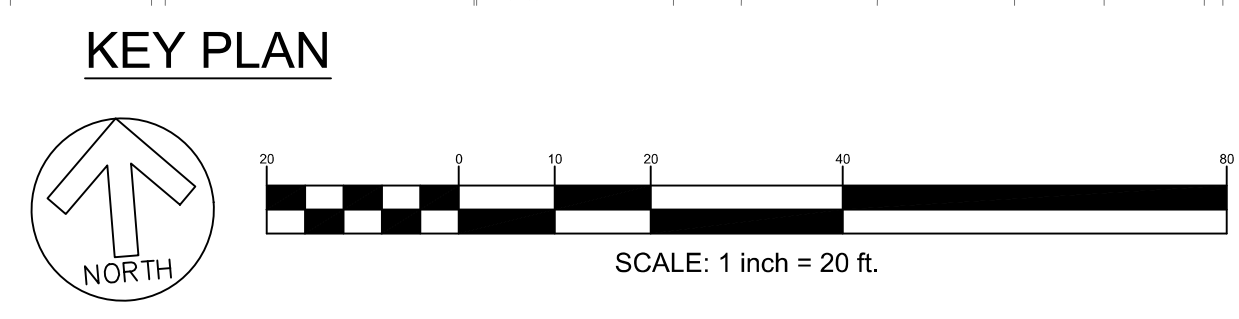
Sheet Number:
E1.08

MATCHLINE - 47+30 - SEE SHT E1.08



A
E1.09 SITE ELECTRICAL PLAN

- GENERAL SHEET NOTES**
1. ASSUME 1.50" PVC SCHEDULE 40 CONDUIT AND #10 THWN CONDUCTORS, UNLESS OTHERWISE NOTED.
 2. REFER TO SHEET E0.01 FOR PANEL SCHEDULE.
 3. REFER TO SHEET E0.01 FOR LIGHTING FIXTURE SCHEDULE.
 4. PROVIDE ELECTRICAL PULLBOXES WITH BOLT DOWN LIDS.
 5. REFER TO DETAIL B/E2.01 FOR TYPICAL LIGHTING POLE BASE CONCRETE FOUNDATION.



No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS

The Engineering Enterprise
Consulting Engineers

THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

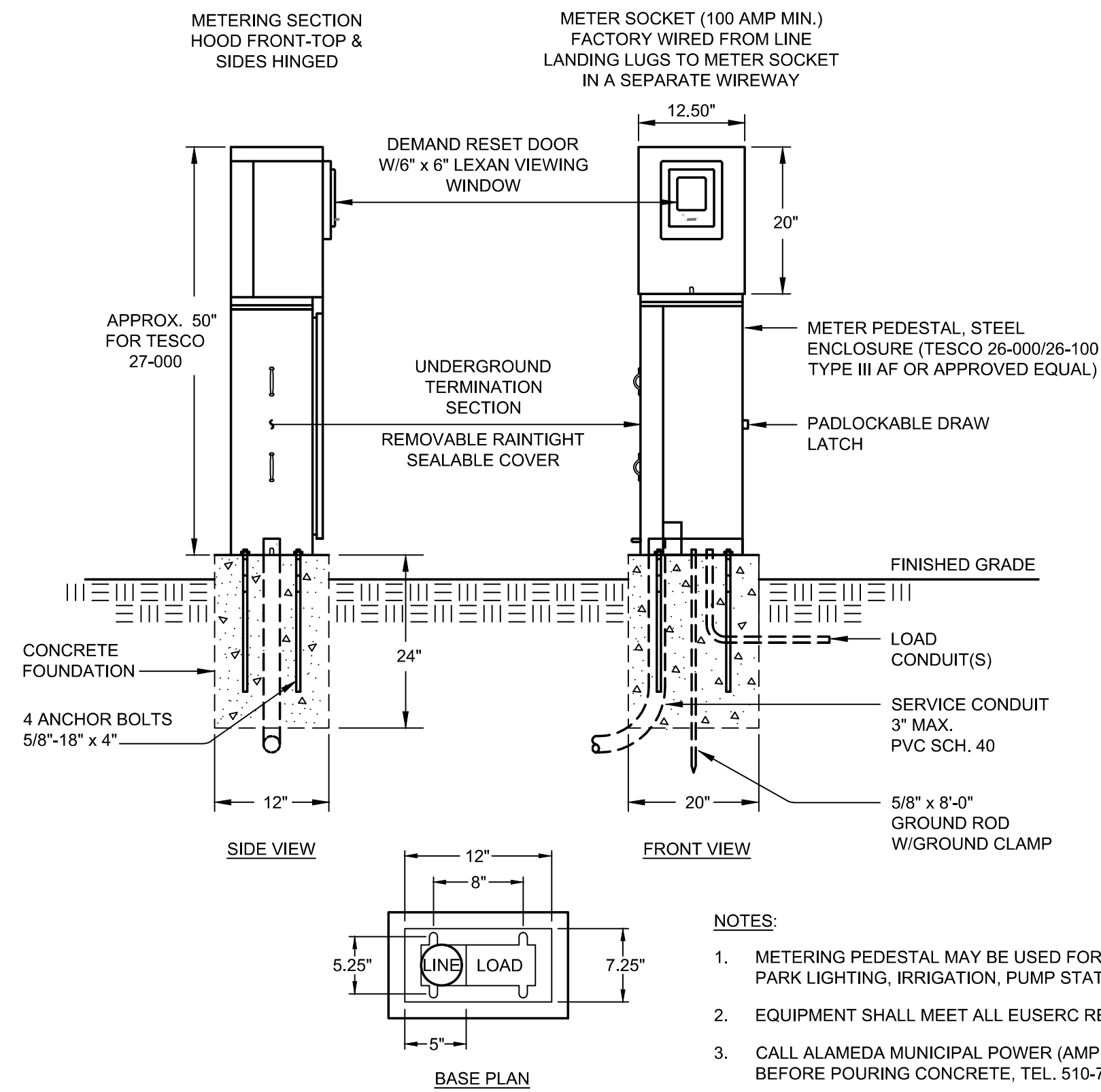
Date	07/18/18	Scale	AS SHOWN	Job No.	20145190
Design	CF	Drawn	EG	Approved	CF



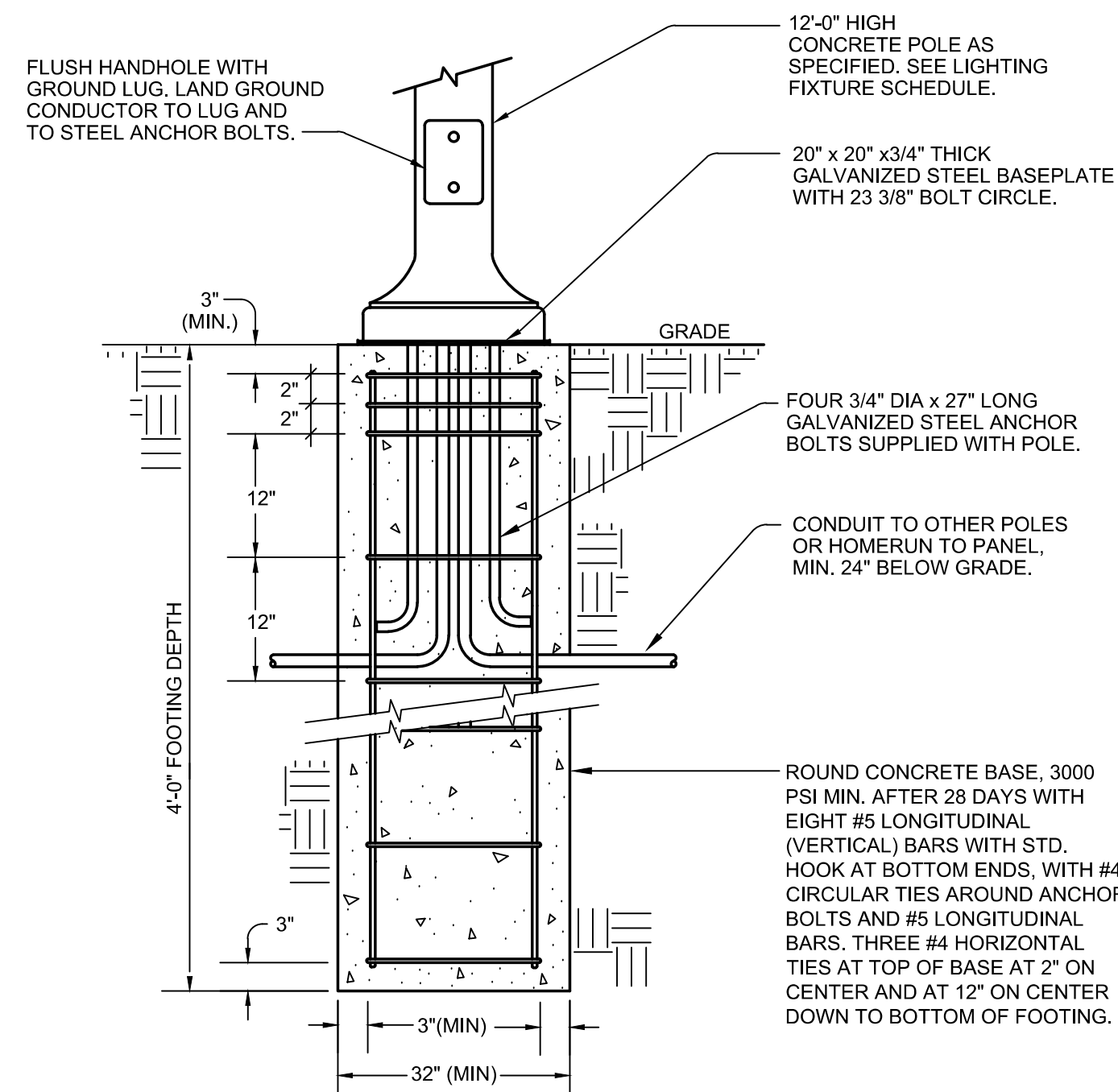
**CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
SITE ELECTRICAL PLAN**

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

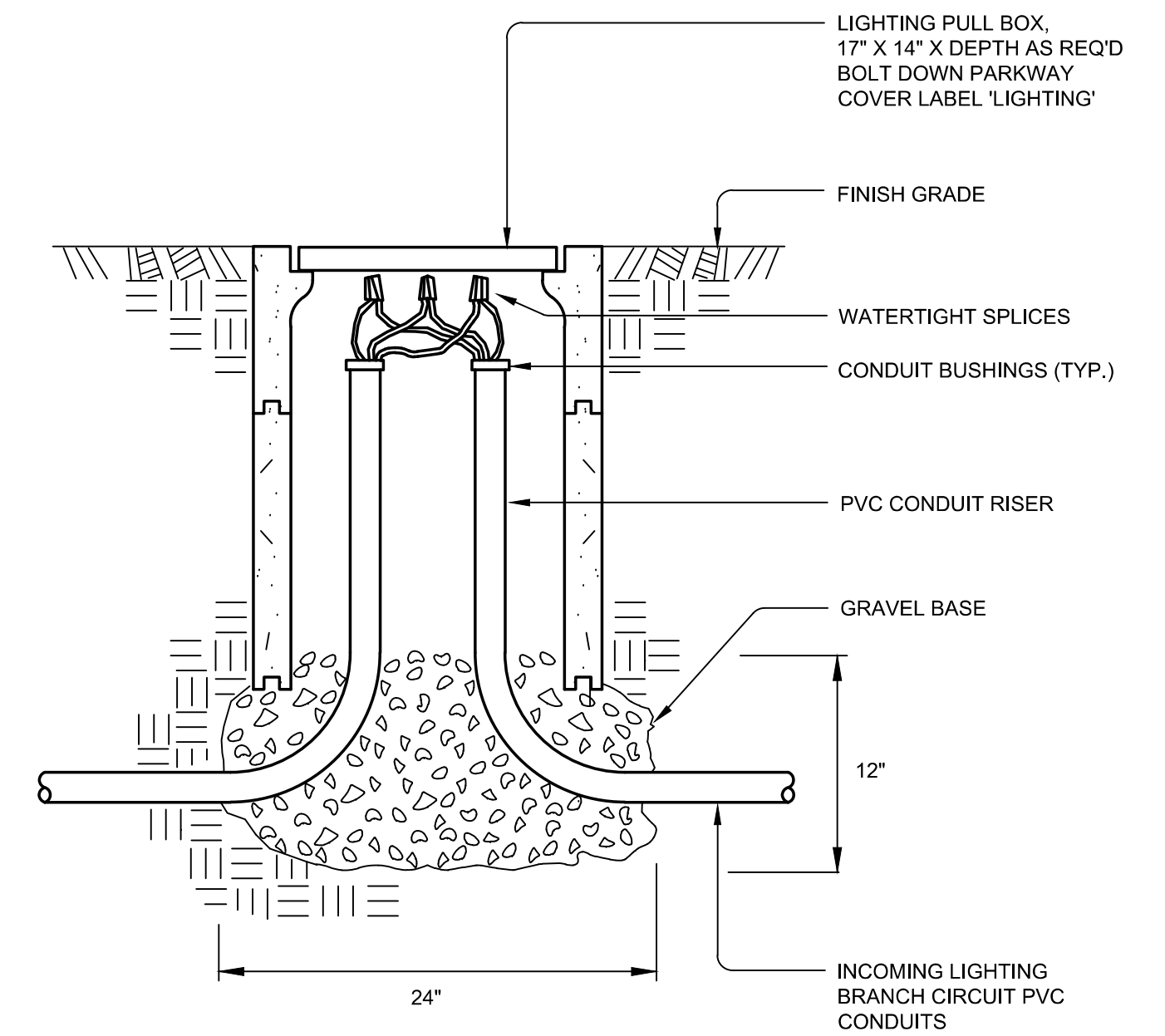
Sheet Number:
E1.09



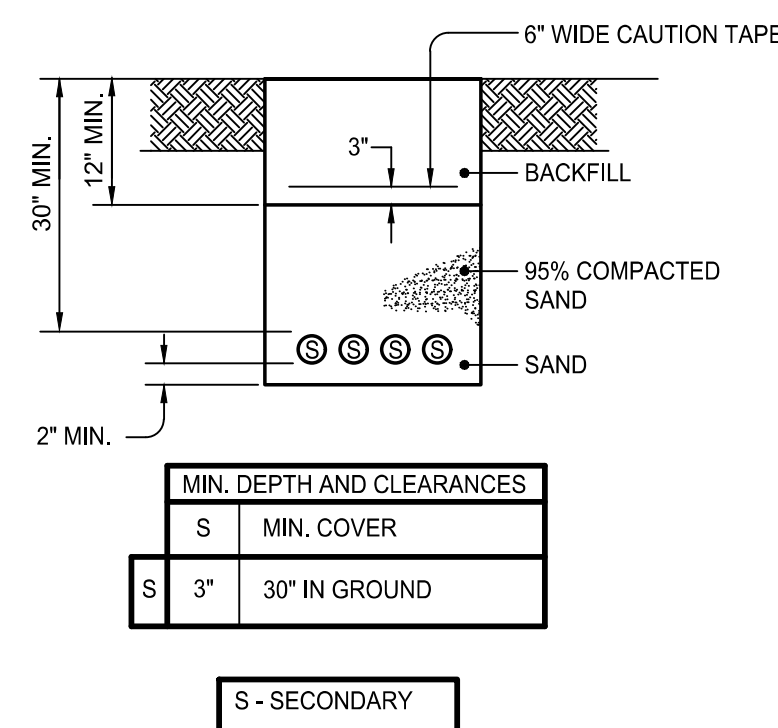
A SINGLE-PHASE METERING POWER PEDESTAL MOUNTING DETAIL (N.T.S.)



B LIGHTING POLE BASE DETAIL (N.T.S.)

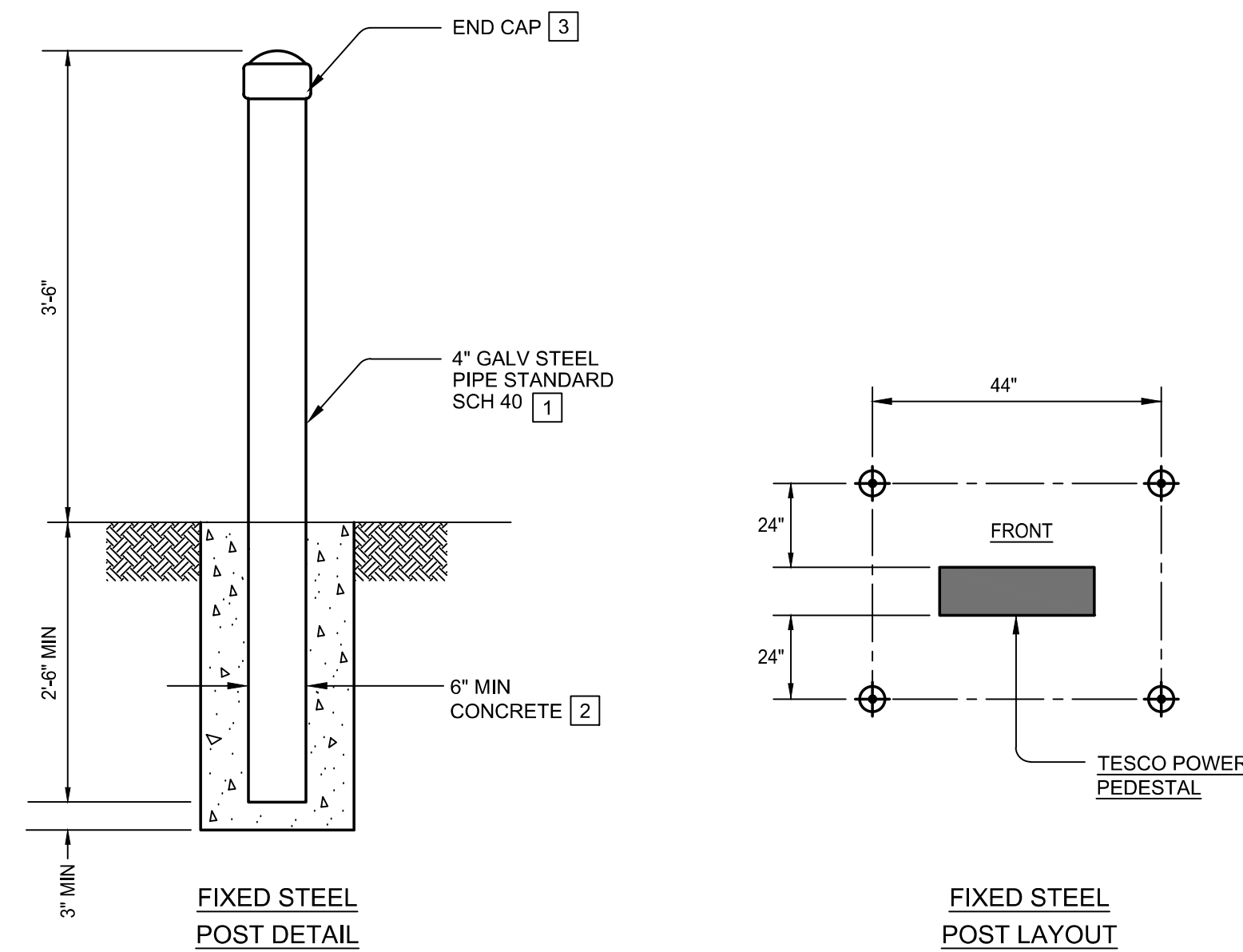


C LIGHTING PULLBOX DETAIL (N.T.S.)



- NOTES:
- ALL BACKFILL SHALL BE COMPACTED IN ONE FOOT LAYERS WITH A MINIMUM OF 95% COMPACTION FOR TRENCH IN GROUND. COMPACTION MAY BE SUBJECT TO TESTING.
 - ALL TRENCH WORK SUBJECT TO ALAMEDA MUNICIPAL POWER INSPECTION.
 - CALL ALAMEDA MUNICIPAL POWER FOR INSPECTION BEFORE BACKFILLING TRENCH, TEL (510) 748-3943.

D UTILITY TRENCH SECTION DETAIL (N.T.S.)



GENERAL NOTES:

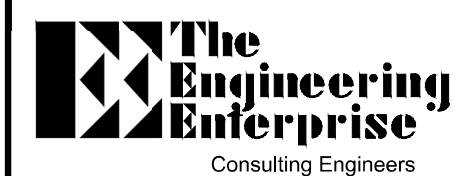
- THIS STANDARD SHOWS BARRIER POSTS REQUIRED TO PROTECT PAD-MOUNTED EQUIPMENT FROM VEHICULAR DAMAGE. BARRIER POST LOCATIONS SHALL BE APPROVED BY ALAMEDA MUNICIPAL POWER (AMP) CONSTRUCTION INSPECTOR.
- CAUTION MUST BE TAKEN WHEN INSTALLING BARRIER POSTS ENSURING THAT THEY DO NOT MAKE CONTACT WITH ANY UNDERGROUND UTILITIES.

DETAIL NOTES:

- USE 4 INCH GALVANIZED STEEL PIPE, WITH STANDARD SCHEDULE 40. THE PIPE SHALL BE PRIMED AND PAINTED YELLOW.
- THE CONCRETE ENCASEMENT SHALL BE A MINIMUM OF 6 INCHES THICK.
- INSTALL WELDED END CAP AT THE TOP OF BARRIER POSTS.

E EQUIPMENT BARRIER PROTECTION DETAIL (N.T.S.)

No.	Date	Revisions
	07/18/2018	CONSTRUCTION DOCUMENTS



THE POWER HOUSE
1305 MARINA VILLAGE PARKWAY
ALAMEDA, CA. 94501
(510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
Design CF Drawn EG Approved CF



CROSS ALAMEDA TRAIL
MAIN STREET TO CONSTITUTION WAY
ELECTRICAL DETAILS

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number:
E2.01

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

STATE OF CALIFORNIA
OUTDOOR LIGHTING
 CEC-NRCC-LTO-01-E (Revised 04/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

A. General Information
 Project Address: Main Street to Constitution Way, Alameda, CA 94501
 Total Illuminated Hardscape Area: [Blank]
 Phase of Construction: New Construction Addition Alteration
 Outdoor Lighting Zone (LZ): LZ-1 LZ-2 LZ-3 LZ-4
 I have confirmed with the AHJ which OLZ applies to this site. For default lighting zone designations, see Title 24 Part 6, §10-114

I. OUTDOOR LIGHTING SCHEDULE and FIELD INSPECTION ENERGY CHECKLIST

Name or Item Tag	Complete Luminaire Description	Watts per luminaire	How wattage was determined		Number of luminaires	Total installed Watts in this area (0.3 x 0.5)	Location	Cutoff	Field Inspector	
			CEC Default from NAB §130.0(c)	According to §130.0(c)					Pass	Fail
F1	POLE MOUNTED POST-TOP	90	<input checked="" type="checkbox"/>	<input type="checkbox"/>	42	2520	Trail Path	UH: UL: FVH: BVH: FH: BH:	<input type="checkbox"/>	<input type="checkbox"/>
INSTALLED WATTS PAGE TOTAL:						2520	Enter sum total of all pages (Sum Total INSTALLED Outdoor lighting wattage) into NRCC-LTO-01-E, page 2			

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Philip Yu
 Signature Date: July 12, 2018
 Company: The Engineering Enterprise
 Address: 1305 Marina Village Parkway
 City/State/Zip: Alameda, CA 94501
 Phone: (510) 769-7600

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Kristina Martin
 Signature Date: July 12, 2018
 Company: The Engineering Enterprise
 Address: 1305 Marina Village Parkway
 City/State/Zip: Alameda, CA 94501
 License: E015303
 Phone: (510) 769-7600

C. Summary of Allowed Lighting Power

	Watts
01 Sum Total of ALLOWED Outdoor Lighting Wattage from NRCC-LTO-03-E, page 1	2922.32
Complies ONLY if Installed (Box 02) <= Allowed (Box 1)	<input checked="" type="checkbox"/>
02 Sum Total INSTALLED Outdoor Lighting Wattage from NRCC-LTO-01-E, page 3	2520

D. Declaration of Required Installation Certificates - Declare by checking all Installation Certificates that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRCC-LTO-01-E - Must be submitted for all buildings Field Inspector
 NRCC-LTO-02-E - Must be submitted for lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance Field Inspector
E. Declaration of Required Certificates of Acceptance - Declare by checking all Certificates of Acceptance that will be submitted. (Retain copies and verify forms are completed and signed.)
 NRCC-LTO-02-A - Must be submitted for outdoor lighting controls. Field Inspector

F. Schedule of luminaires exempt from the outdoor power lighting power requirements in §140.7

01	02
Name or Symbol	Description of exempt luminaire in accordance with the exemptions

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance April 2016

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

STATE OF CALIFORNIA
OUTDOOR LIGHTING CONTROLS
 CEC-NRCC-LTO-02-E (Revised 08/16)
 CERTIFICATE OF COMPLIANCE
 Outdoor Lighting Controls
 Project Name: CROSS ALAMEDA TRAIL Date Prepared: July 12, 2018

A. Mandatory Outdoor Lighting Control Declaration Statements
 check all that apply:
 Lighting shall be controlled by self-contained lighting control devices which are certified to the Energy Commission according to the Title 20 Appliance Efficiency Regulations in accordance with Section 110.9
 Lighting shall be controlled by a lighting control system or energy management control system in accordance with §110.9. An Installation Certificate shall be submitted in accordance with Section 130.4(b)
 All lighting controls and equipment shall comply with the applicable requirements in §110.9 and shall be installed in accordance with the manufacturer's instructions in accordance with §130.1
 Part-Night Outdoor Lighting Controls, as defined in Section 100.1, shall meet the requirements in Section 110.9(b)5
 All outdoor incandescent luminaires rated over 100 watts, determined in accordance with Section 130.0(c), shall be controlled by a motion sensor.
 All outdoor luminaires rated for use with lamps greater than 150 lamp watts, determined in accordance with Section 130.0(c), shall comply with Backlight, Uplight, and Glare (collectively referred to as "BUG") in accordance with Section 130.2(b)
 All installed outdoor lighting shall be controlled by a photocontrol or outdoor astronomical time-switch control in accordance with Section 130.2(c)1
 All installed outdoor lighting shall be circuit and independently controlled from other electrical loads by an automatic scheduling control in accordance with Section 130.2(c)2
 All installed outdoor lighting, where the bottom of the luminaire is mounted 24 feet or less above the ground, shall be controlled with automatic lighting controls in accordance with Section 130.2(c)3
 For Outdoor Sales Frontage, Outdoor Sales Lots, and Outdoor Sales Canopies lighting, an automatic lighting control in accordance with Section 130.2(c)4.
 For Building Facade, Ornamental Hardscape and Outdoor Dining lighting, an automatic lighting control in accordance with Section 130.2(c)5
 Before an occupancy permit is granted for a newly constructed building or area, or a new lighting system serving a building, area, or site is operated for normal use, indoor lighting controls serving the building, area, or site shall be certified as meeting the Acceptance Requirements for Code Compliance in accordance with §130.4(a). Outdoor lighting controls shall comply with the applicable requirements of Section 130.2(c) and Reference Nonresidential Appendix NA7.8

B. MANDATORY OUTDOOR LIGHTING CONTROL SCHEDULE and FIELD INSPECTION CHECKLIST

01	02	03	Standards Complying With (✓ all that apply, or leave empty if Exempted)							10	11
			04	05	06	07	08	09	Pass		
Location and Application of Luminaires Being Controlled	Type/Description of Lighting Control (i.e. outdoor motion sensor, outdoor photocontrol, outdoor astronomical time-switch control, automatic scheduling control, part-night outdoor lighting control)	# of units	§130.2(e)	§130.2(f)1	§130.2(f)2	§130.2(f)3	§130.2(f)4	§130.2(f)5			
Trail Path Post-top Fixtures	astronomical time-clock			✓	✓	✓			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.
 Documentation Author Name: Philip Yu
 Signature Date: July 12, 2018
 Company: The Engineering Enterprise
 Address: 1305 Marina Village Parkway
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Responsible Designer Name: Kristina Martin
 Signature Date: July 12, 2018
 Company: The Engineering Enterprise
 Address: 1305 Marina Village Parkway
 City/State/Zip: Alameda, CA 94501
 License: E015303
 Phone: (510) 769-7600

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance August 2016

No.	Date	Revisions
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The Engineering Enterprise
 Consulting Engineers
 THE POWER HOUSE
 1305 MARINA VILLAGE PARKWAY
 ALAMEDA, CA. 94501
 (510) 769-7600 JOB #18091

Date 07/18/18 Scale AS SHOWN Job No. 20145190
 Design CF Drawn EG Approved CF



CROSS ALAMEDA TRAIL
 MAIN STREET TO CONSTITUTION WAY
 TITLE 24

CITY OF ALAMEDA ALAMEDA COUNTY CALIFORNIA

Sheet Number: E3.01

