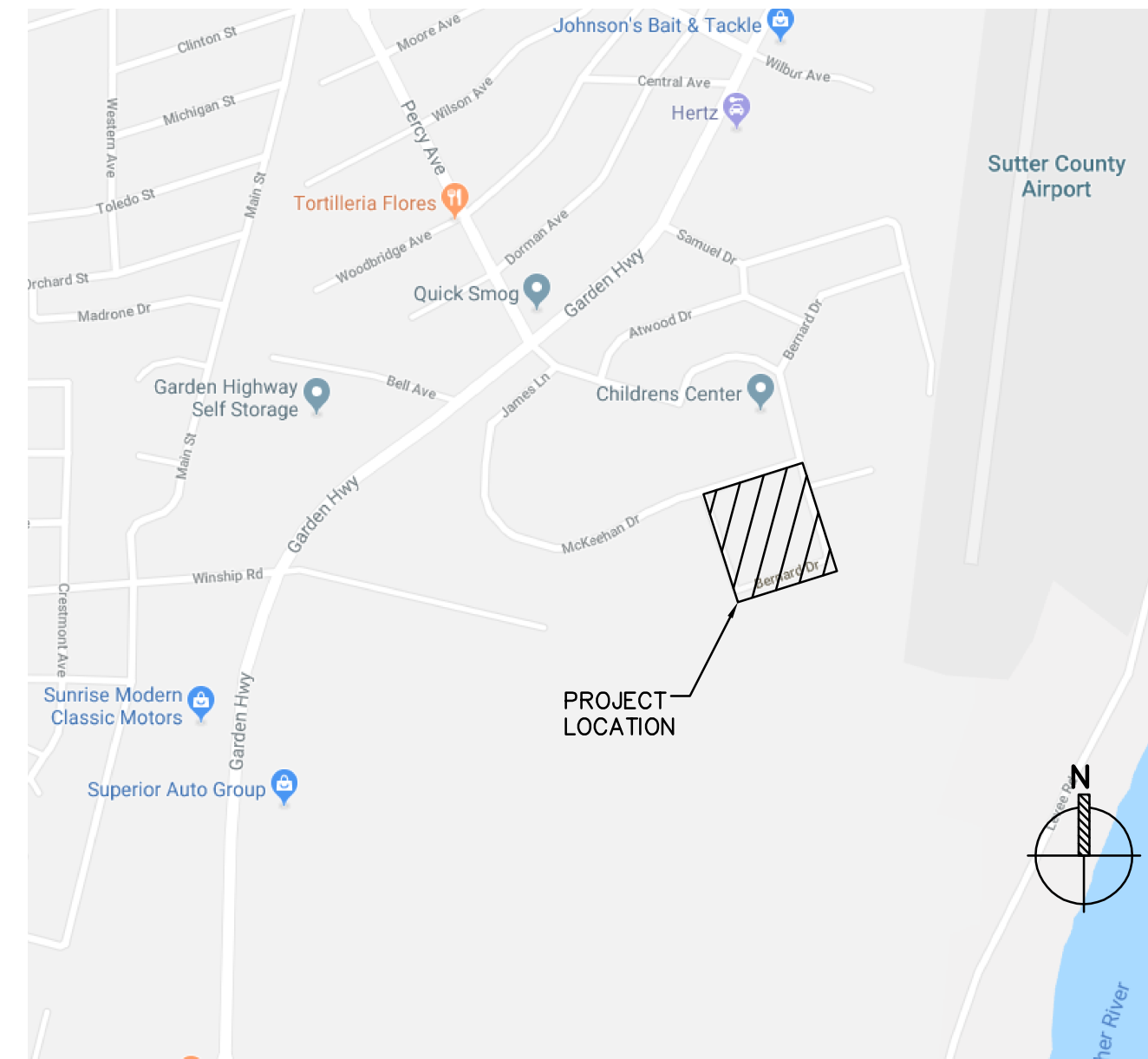




# Upgrade 12.47KV Distribution System at the Migrant Workers Housing Village

479 BERNARD DRIVE, YUBA CITY, CALIFORNIA 95991

## VICINITY MAP



## KEY PLAN



## PROJECT DESCRIPTION

GENERAL DESCRIPTION OF THE WORK:

- REHABILITATE AN EXISTING 12.47KV PRIMARY OVERHEAD DISTRIBUTION SYSTEM
- UPGRADE THE INTERCONNECTION TO PACIFIC GAS AND ELECTRIC OVERHEAD FEEDER
- MODIFY THE UNDERGROUND PRIMARY VOLTAGE DISTRIBUTION LATERALS

## CODE ANALYSIS

ASSESSOR'S PARCEL NUMBERS 53-443-008 & 53-470-053  
 LOTS LOTS 11, 14 AND 19  
 OCCUPANCY: F2 (MULTI-FAMILY DWELLINGS)  
 TOTAL SITE AREA: 6 ACRES

CODES:  
 CALIFORNIA BUILDING CODE, 2016 EDITION  
 CALIFORNIA ELECTRICAL CODE, 2016 EDITION  
 CPUC GENERAL ORDER 95

## CONTACTS

OWNER: REGIONAL HOUSING AUTHORITY  
 GUSTAVO BECERRA, EXECUTIVE DIRECTOR  
 1455 BUTTE HOUSE ROAD  
 YUBA CITY, CALIFORNIA 95993  
 TEL: 530-671-0220 x113  
 EMAIL: g.becerra@regionalha.org

ENGINEER: STANTON ENGINEERING  
 LAWRENCE W. MYERS, PE  
 EMAIL: larrym@stantoneng.com  
 DESK: 916-288-6247  
 CELL: 707-235-0253

## SHEET INDEX

- E0.1 TITLE SHEET
- E0.2 SYMBOLS AND SCHEDULES
- E1.0 EXISTING OVERALL DISTRIBUTION PLAN & EXISTING ONE-LINE DIAGRAM
- E1.1 NEW OVERALL DISTRIBUTION PLAN & NEW ONE-LINE DIAGRAM
- E1.2 POLES 1, 2, 3, 3A, 3B: ENLARGED PLAN
- E1.3 POLES 2, 3: ELEVATIONS
- E1.4 POLES 3A, 3B: ELEVATIONS
- E1.5 POLE 5: ENLARGED PLAN & ELEVATIONS
- E1.6 POLE 9: ENLARGED PLAN & ELEVATIONS
- E1.7 TRANSFORMER T1 AND T4: ENLARGED PLANS AND VAULT DETAILS
- E1.8 POLE 6: ENLARGED PLAN & ELEVATIONS
- E1.9 POLES 11, 12, 13: ELEVATIONS
- E2.0 TYPICAL SPAN CLEARANCES AND JUNCTIONS

REVISIONS	
ISSUED FOR CITY PERMIT	07/20/18
ADD 12KV BUSHINGS, FEEDER REPLACEMENT	

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 Sacramento, CA 95826  
 916.288.6250 OFFICE

COVER SHEET  
 UPGRADE 12.47KV DISTRIBUTION  
 479 BERNARD DRIVE  
 YUBA CITY, CALIFORNIA 95993

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DATE	
SHEET NUMBER	



**E0.1**



# ELECTRICAL SYMBOL LIST

NOTE: This is a standard symbol list and not all items listed may be used.

## Abbreviations

A	AMPERES, AMPER
AC	ALTERNATING CURRENT, AIR CONDITIONER
AFC	ABOVE FINISHED CEILING
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AIC	AVAILABLE INTERRUPTING CAPACITY
AWG	AMERICAN WIRE GAUGE
BC	BARE COPPER
CEC	CALIFORNIA ELECTRICAL CODE
C	CONDUIT, CLOSE, CONTROL
CB	CIRCUIT BREAKER
CFGI	CONTRACTOR FURNISHED CONTRACTOR INSTALLED
CFOI	CONTRACTOR FURNISHED OWNER INSTALLED
CLG	CEILING
COM	COMMUNICATION
CT	CURRENT TRANSFORMER
CU	COPPER
DN	DOWN
EF	EXHAUST FAN
F	FUSE
FACP	FIRE ALARM CONTROL PANEL
FBO	FURNISHED BY OTHERS
G, GND	GROUND
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GFI	GROUND FAULT INTERRUPTER
GRC	GALVANIZED RIGID STEEL CONDUIT
KVA	KILOVOLT AMPERES
KW	KILOWATT
LED	LIGHT EMITTING DIODE
MDB	MAIN DISTRIBUTION BOARD
MDP	MAIN DISTRIBUTION PANEL
MSB	MAIN SWITCHBOARD
MT, MTD	MOUNT, MOUNTED
MT	EMPTY CONDUIT WITH NYLON PULL CORD
N/A	NOT APPLICABLE
N	NEUTRAL
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
OFCI	OWNER FURNISHED, CONTRACTOR INSTALLED
OFOI	OWNER FURNISHED, OWNER INSTALLED
OS	OCCUPANCY SENSOR
PH	PHASE
PNL	PANEL
REF	REFERENCE
REQD	REQUIRED
S	SWITCH
SIM	SIMILAR
TELE	TELEPHONE
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UL	UNDERWRITERS LABORATORIES
UN	UNLESS OTHERWISE NOTED
V	VOLTS, VOLTAGE
W/	WITH
W	WIRE, WHITE
WP	WEATHERPROOF
XFMR	TRANSFORMER

## Connections / Equipment

	HEAVY DUTY FUSED DISCONNECT SWITCH
	JUNCTION BOX

	WALL-MOUNTED JUNCTION BOX
	NON-FUSED DISCONNECT SWITCH
	TRANSFORMER

## Fire Alarm

	FIRE ALARM CONTROL PANEL
	HEAT DETECTOR
	PULL STATION
	PHOTOELECTRIC SMOKE DETECTOR
	COMBINATION SMOKE ALARM AND CARBON MONOXIDE DETECTOR, SINGLE STATION
	SPRINKLER FLOW SWITCH WITH INPUT MODULE
	SPRINKLER POST INDICATOR VALVE CONNECTION WITH INPUT MODULE
	SPRINKLER TAMPER SWITCH WITH INPUT MODULE
	EXTERIOR SPRINKLER BELL
	MAGNETIC DOOR HOLDER
	STROBE WITH CONDELA RATING
	HORN/STROBE WITH CONDELA RATING
	HORN

## General

	NEW WORK
	EQUIPMENT TAG, SEE SCHEDULE
	KEYED NOTE

## Lighting

	CEILING FAN
	EXIT SIGN CEILING MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	EXIT SIGN WALL MOUNTED, ARROW(S) INDICATES DIRECTION IF SHOWN
	AREA LUMINAIRE ARM MOUNTED WITH POLE AND CONCRETE BASE
	SURFACE OR PENDANT MOUNTED LUMINAIRE
	POST TOP LUMINAIRE

## Miscellaneous

	BRANCH CIRCUIT WIRING. ARROW INDICATES HOME RUN TO PANEL WITH CIRCUITS AS NOTED. WIRE SIZE IS #12 AWG MINIMUM UNLESS NOTED OTHERWISE. SHORT TICK MARKS INDICATE PHASE CONDUCTORS. LONG TICK MARKS INDICATE NEUTRAL CONDUCTORS. A SINGLE CURVED TICK MARK INDICATES INSULATED GREEN GROUND CONDUCTOR. SECOND CURVED TICK MARK INDICATES "ISOLATED GROUND" (GREEN INSULATION WITH YELLOW STRIPE) CONDUCTOR.
	BRANCH PANEL
	CIRCUIT BREAKER
	CURRENT TRANSFORMER
	FLUSH MOUNT EQUIPMENT ENCLOSURE AS NOTED
	FLUSH WALL MOUNTED BRANCH PANEL
	GROUNDING POINT

	DOORBELL - NUTONE #A11MH +7"-6"
	DOORBELL PUSH BUTTON
	LANDING LUG
	MAIN DISTRIBUTION PANEL / SUB DISTRIBUTION PANEL
	METER WITH CONNECTION
	SURFACE MOUNT EQUIPMENT ENCLOSURE AS NOTED
	UTILITY TRANSFORMER PAD/VAULT
	WALL MOUNTING BRACKET
	WATER PIPE GROUND CONNECTION

## Raceways

	CONDUIT CONCEALED IN WALL OR CEILING SPACE
	CONDUIT ROUTED BELOW FLOOR / GRADE
	CATV ROUTED BELOW FLOOR / GRADE
	TEL/DATA ROUTED BELOW FLOOR / GRADE
	CONDUIT ELLED DOWN
	CONDUIT ELLED UP
	CONDUIT/WIRING CONTINUATION
	CONDUIT/WIRING STUBBED OUT WITH END CAP OR INSULATED PLASTIC BUSHING
	FLEXIBLE CONDUIT
	TELEPHONE BACKBOARD

## Switches and Receptacles

	DUPLEX RECEPTACLE (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = FLUSH CEILING MOUNTED E = EMERGENCY G = GROUND FAULT CIRCUIT INTERRUPTER T = TAMPER RESISTANT SHUTTERED RECEPTACLE W = WEATHERPROOF CONTINUOUS USE COVER, GFCI PROTECTED, WITH WEATHER-RESISTANT RECEPTACLE
	DOUBLE DUPLEX RECEPTACLE.
	SINGLE RECEPTACLE.
	SPECIAL PURPOSE RECEPTACLE.
	OCCUPANCY SENSOR (SELF CONTAINED) P = PASSIVE INFRARED D = DUAL TECHNOLOGY U = ULTRASONIC, 360 DEG RANGE H = ULTRASONIC, HALLWAY PATTERN
	RECEPTACLE CONTROLLER
	LOW VOLTAGE PHOTO SENSOR
	LOW VOLTAGE OCCUPANCY SENSOR
	SWITCH, SPST 2 = DPST 3 = 3-WAY 4 = 4-WAY g THRU z (LOWERCASE) = SWITCH CIRCUIT DESIGNATION D = DIMMER F = FAN SPEED CONTROL K = KEY OPERATED SWITCH M = MANUAL MOTOR STARTER WITH THERMAL OVERLOAD P = SWITCH WITH PILOT LIGHT

## Telecommunications

	TELCOM OUTLET. (MULTIPLE LETTERS INDICATE MULTIPLE OPTIONS) A = ABOVE COUNTER C = CEILING MOUNTED ABOVE ACCESSIBLE CEILING F = FLUSH CEILING MOUNTED R = SURFACE MOUNTED ON RACEWAY
--	--

# EQUIPMENT SCHEDULE

#	ITEM	MANUFACTURER	CATALOG NUMBER	REMARKS
1	15KV, 3 PHASE LINE RECLOSER, MICROPROCESSOR BASED CONTROLLER, SURGE PROTECTION, CONTROL POWER, POLE MOUNTING BRACKET, INTERCONNECT WIRING	COOPER POWER SERIES	#KNOVA-15A-1-1 w/ KNOVA61-2 ARRESTER BRACKET INBOARD, KNOVA61-1 ARRESTER OUTBOARD, KNOVA353-2 ARRESTER BRACKET (6), KNOVA 354-2 FACTORY ASSEMBLY	
1A	LINE RECLOSER CONTROLLER, FORM 6, TRIPLE-SINGLE	COOPER POWER SERIES	NOVA SERIES	
2	45' POLE, CLASS 1, FULLY TREATED DOUGLAS FIR	STELLA-JONES	----	
3	8' CROSS ARM	McFARLAND CASCADE	----	
4	45 DEGREE STEEL CROSSARM BRACE	A.B. CHANCE CO.	1 PIECE "V" CROSSARM #6940	
5	HELICAL AUGUR ANCHOR, INCLUDE GUY WIRE, INSULATOR AND HARDWARE	A.B. CHANCE CO.	----	8' EMBEDMENT
6	15KV OVERHEAD CONDUCTOR, #2/0 ACSR	SOUTHWIRE	SPARROW	
7	15KV CLASS DISTRIBUTION DEAD-END INSULATOR	A.B. CHANCE CO.	DS-15/PDI-15	
8	NOT USED			
9	15KV POLYMER PIN INSULATOR - C-NECK - LONG SHANK PIN	SOUTHWIRE	#64950701/64976701	
10	15KV LIGHTNING ARRESTOR WITH CROSS ARM BRACKET	OHIO BRASS	2132157224	
11	15KV POLYMER FUSED CUTOUT WITH CROSSARM BRACKET	A.B. CHANCE CO.	CP710112PD	
12	COBRA HEAD LED STREET LIGHT, 40 WATT, 220-240V	CREE	BXSPR-B-HT-33ME-A-40K-UL-SV-N-Q9-R	WITH PHOTOCELL CONTROL
13	STREET LIGHT MOUNTING ARM - 6' LONG	CREE	----	
14	40A, 2 POLE, 250VAC FUSE HOLDER/FUSES IN NEMA 3R ENCLOSURE	COOPER / S&C / SQUARE D		MATCH EXISTING CONSTRUCTION
15	WEATHERHEAD, 1" PVC	CARLON	E998F	
16	15KV SHIELDED OUTDOOR TERMINATION, #2-250KCMIL WITH PIN TERMINAL	TE-RAYCHEM	TFT-151R-5	AT CABLE RISER CUTOUT TERMINATION
17	15KV UNDERGROUND SHIELDED POWER CABLE, #2 AWG COMPACT CU, MV105, 133% BIL, PVC SHIELD	OKONITE	OKOGUARD-OKOLON TS-CPE	
18	4'x 6'-6"x 5' PRIMARY SPLICE BOX.	JENSEN	#6	PG&E #041496
19	15KV CLASS, 200A, 3-WAY LOADBREAK JUNCTION WITH PARKING STANDS AND STAINLESS STEEL MOUNTING BRACKET	COOPER POWER SERIES	LJ 215 C 3B	
20	15KV CLASS, 200A LOADBREAK ELBOW WITH TEST POINT AND INTEGRAL JACKET SEAL	COOPER POWER SERIES	LEJ 215 DD-03	

REV I S I O N S
ISSUED FOR CITY PERMIT
ADD 12KV BUSHINGS, FEEDER REPLACEMENT

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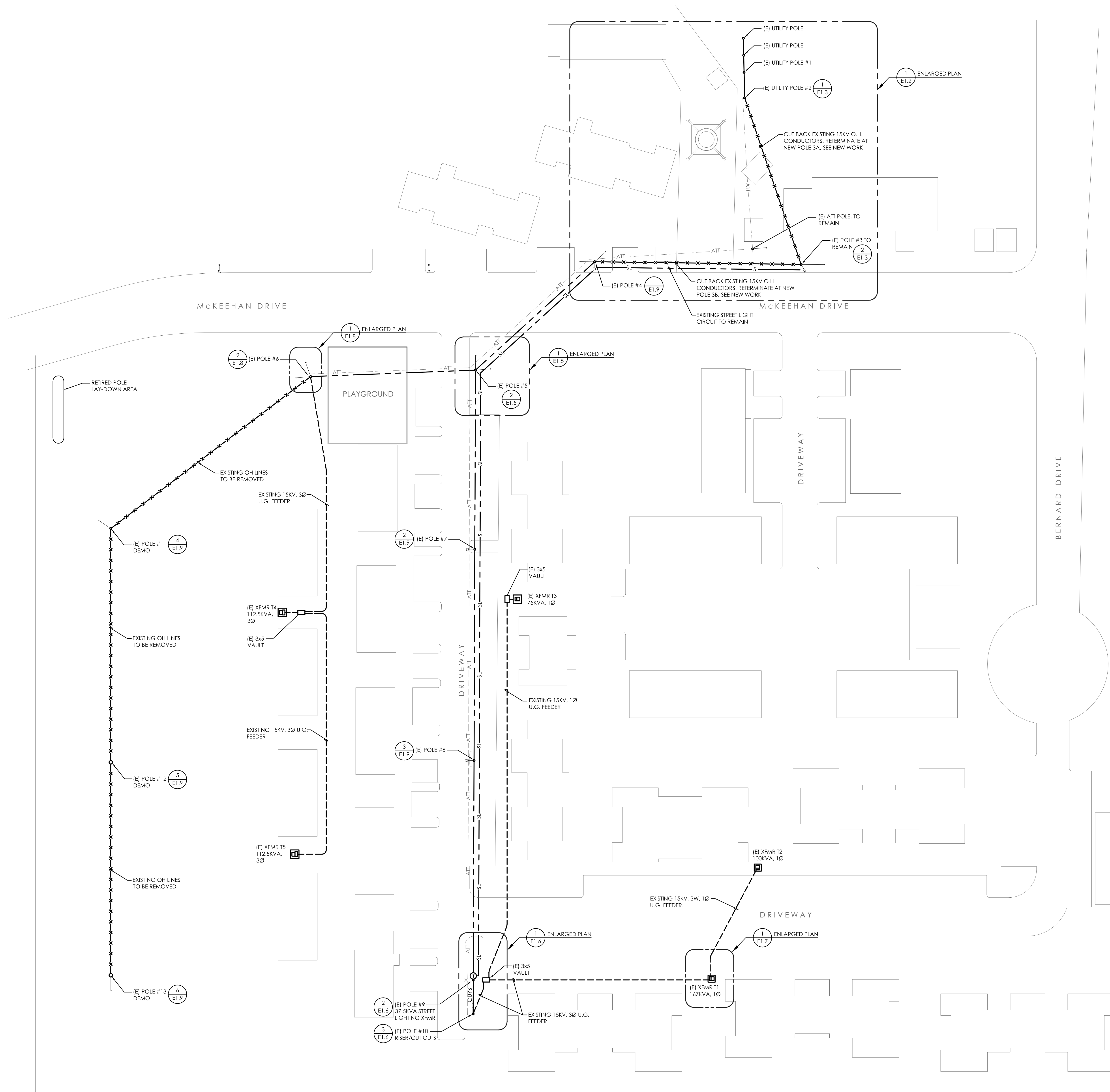
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SYMBOLS AND SCHEDULES

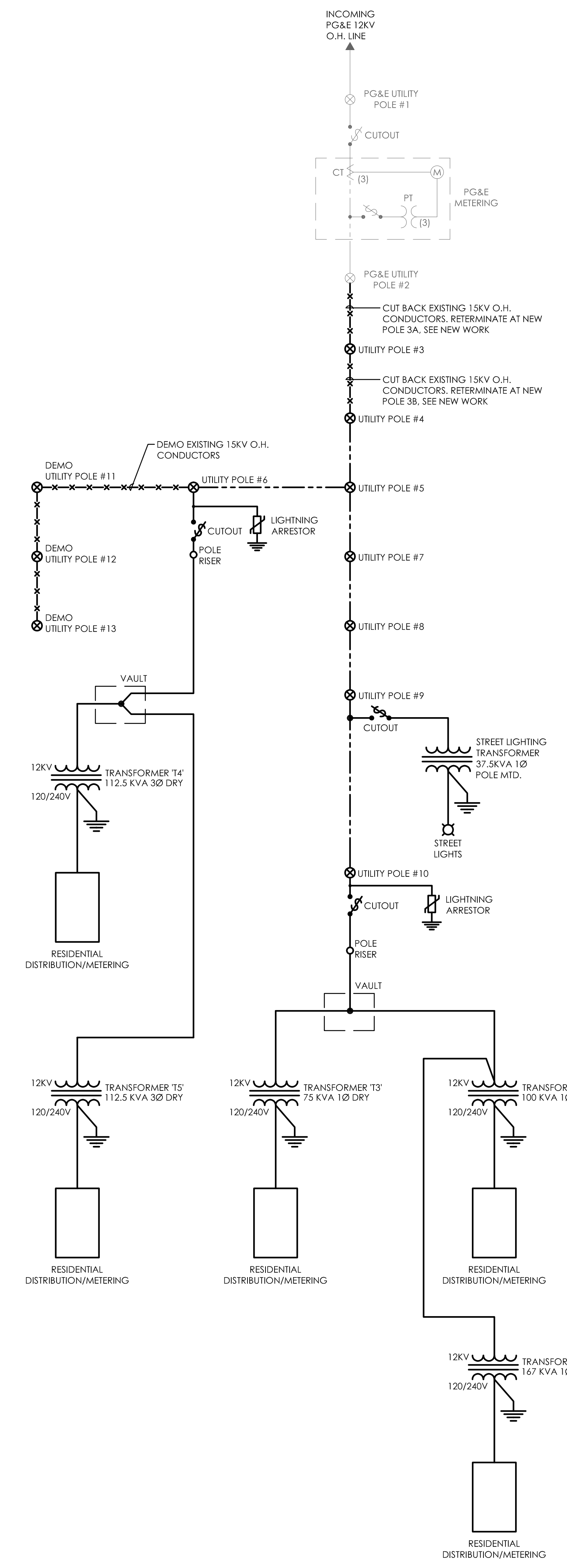
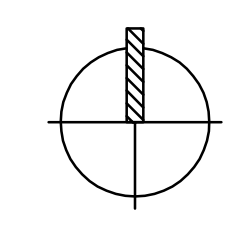
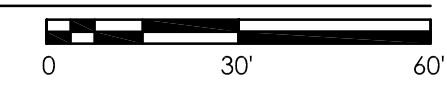
UPGRADE 12.47KV DISTRIBUTION  
479 BERNARD DRIVE  
YUBA CITY, CALIFORNIA 95993

DRAWN BY	JRC
CHECKED BY	LWM
JOB NO.	18032
DATE	
SHEET NUMBER	E0.2





**1 EXISTING OVERALL DISTRIBUTION PLAN**  
SCALE: 1"=30'-0"



**2 EXISTING ONE-LINE DIAGRAM**  
NO SCALE

REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

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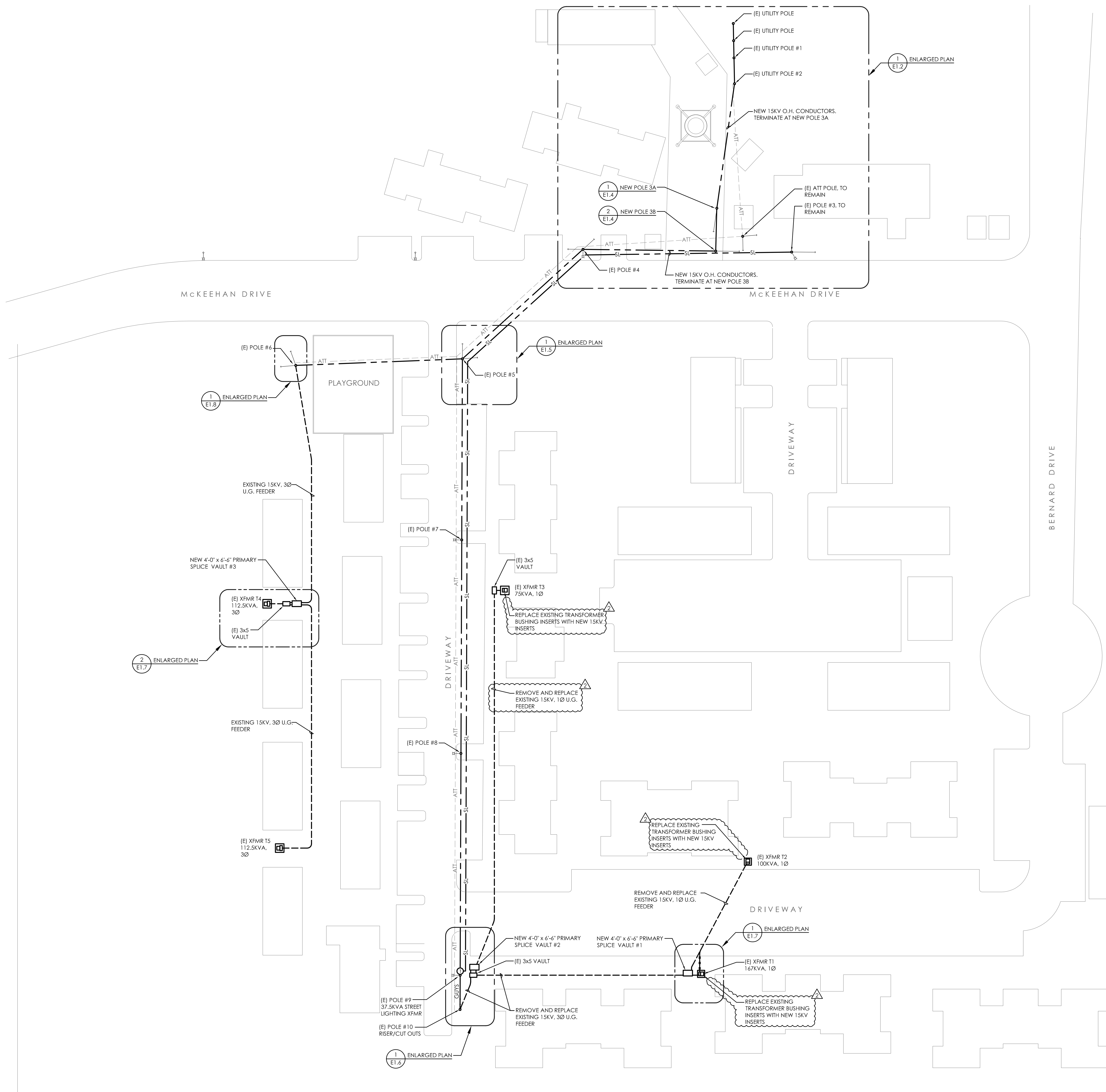
EXISTING OVERALL DISTRIBUTION PLAN AND ONE-LINE DIAGRAM

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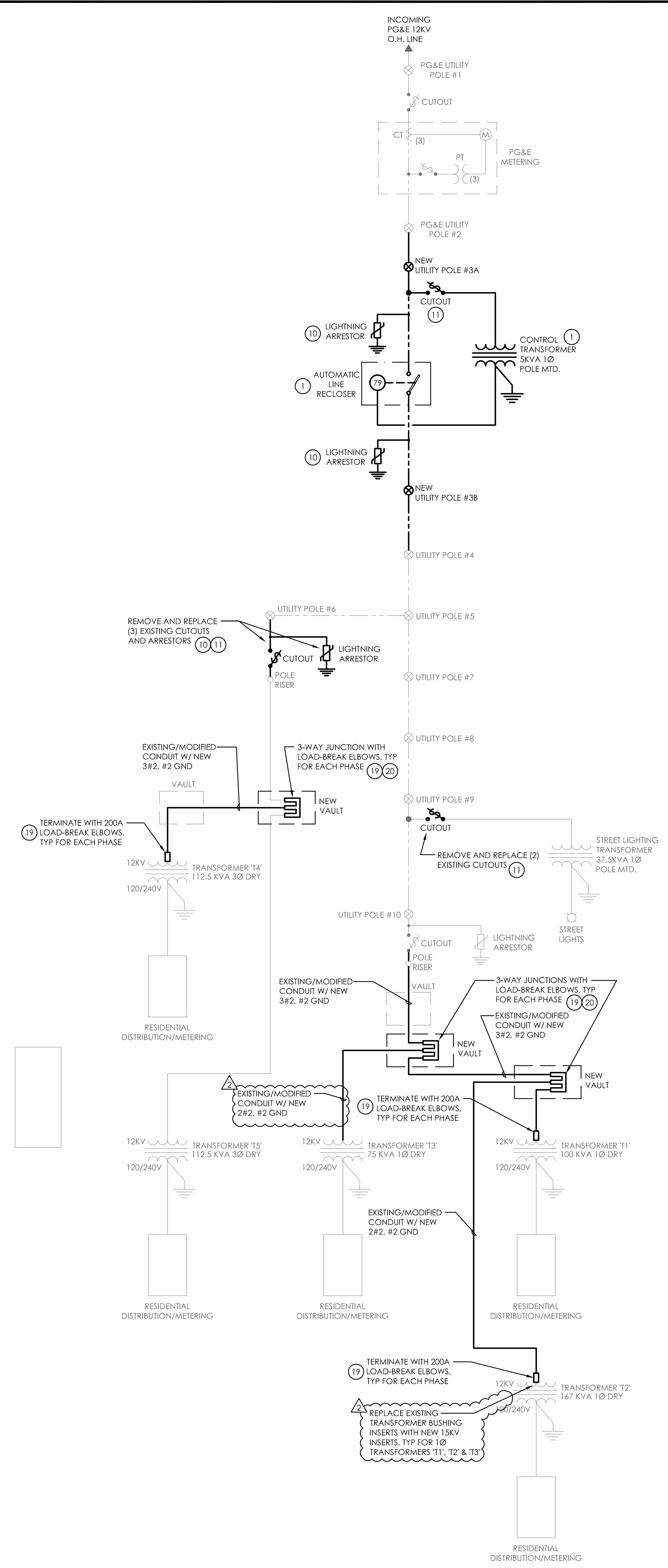
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SHEET NUMBER	



**E1.0**



**1 NEW OVERALL DISTRIBUTION PLAN**  
 SCALE: 1"=30'-0"  
 0 30' 60'



**2 NEW ONE-LINE DIAGRAM**  
 NO SCALE

REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

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 ENGINEERING

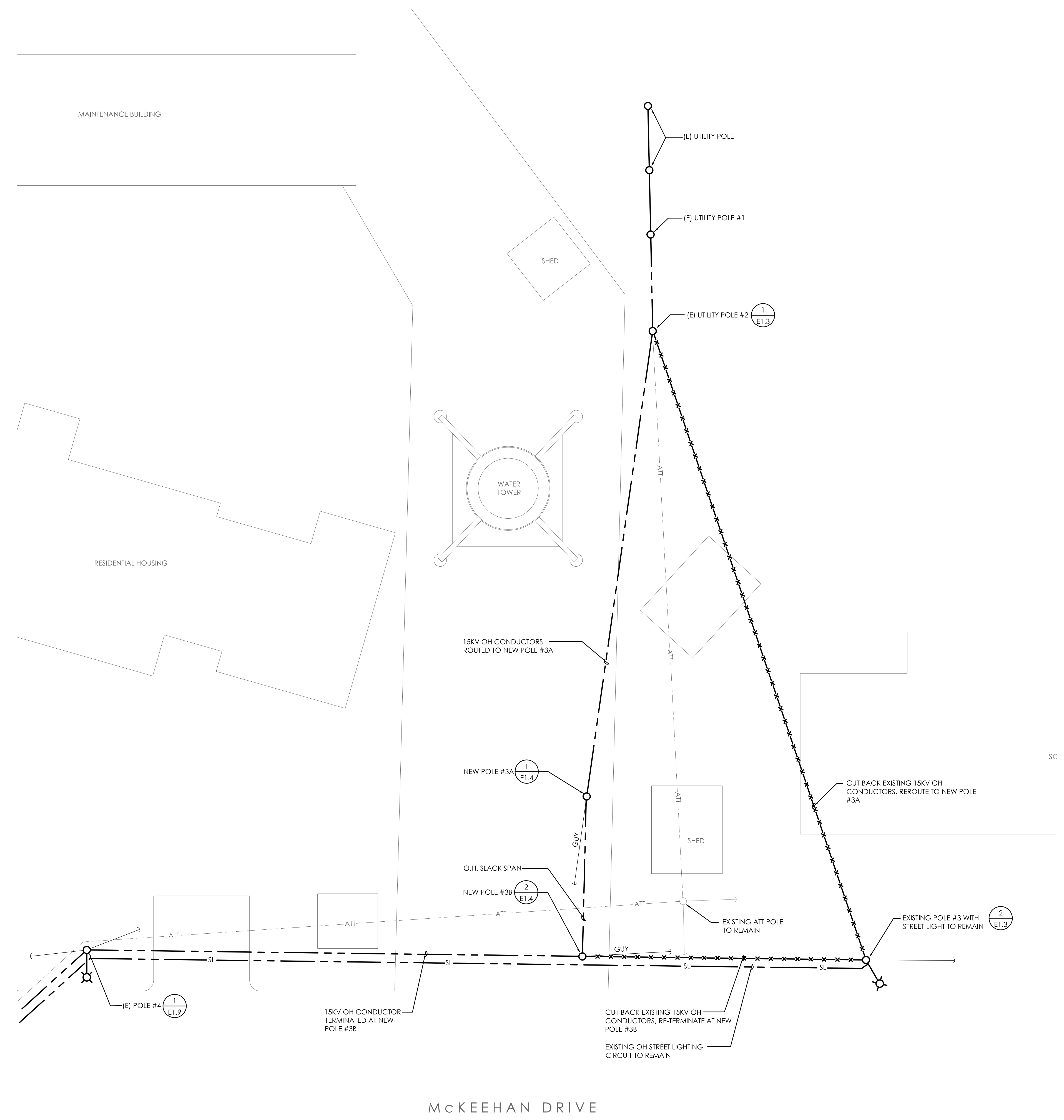
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 916.266.0250  
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**NEW OVERALL DISTRIBUTION PLAN AND ONE-LINE DIAGRAM**  
**UPGRADE 12.47KV DISTRIBUTION**  
**479 BERNARD DRIVE**  
**YUBA CITY, CALIFORNIA 95993**

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**E1.1**





1 POLES 1, 2, 3, 3A, 3B, 4: ENLARGED PLAN  
 SCALE: 1"=10'-0"  
 0 10' 20'

REVISIONS	
1	ISSUED FOR CITY PERMIT 07/20/18
2	ADD 15KV BUSHINGS, FEEDER REPLACEMENT

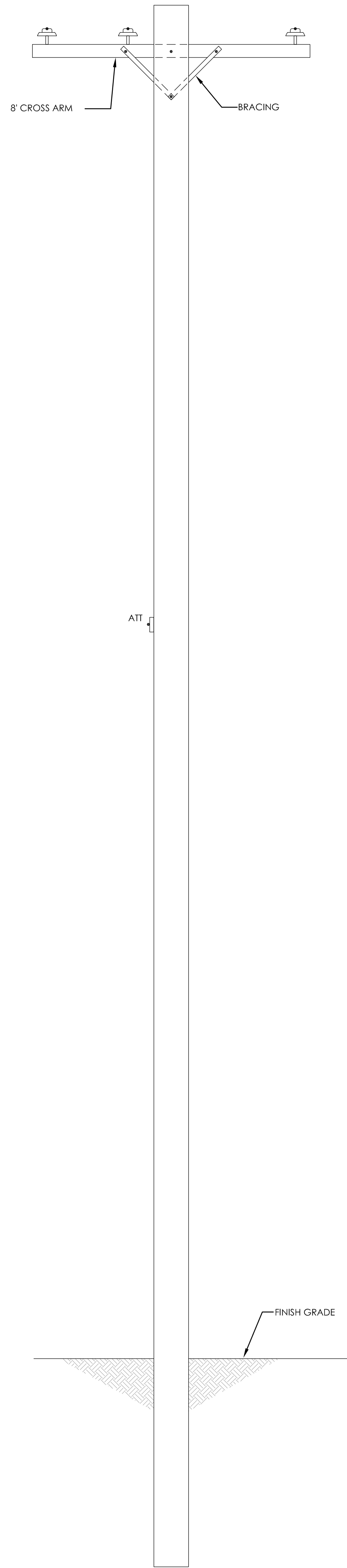
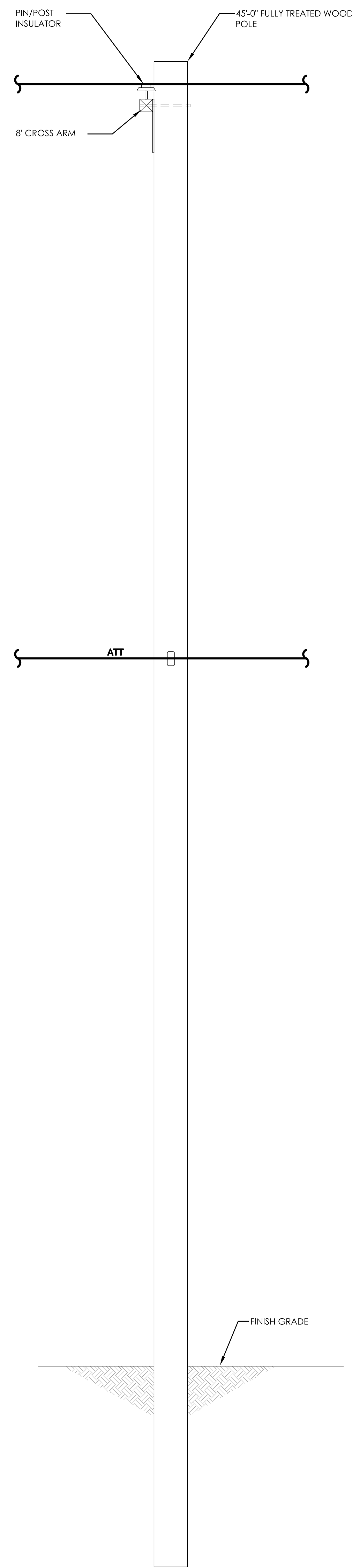
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POLES 1, 2, 3, 3A, 3B, 4: ENLARGED PLAN  
 UPGRADE 12.47KV DISTRIBUTION  
 479 BERNARD DRIVE  
 YUBA CITY, CALIFORNIA 95993

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 18032  
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 SHEET NUMBER



E1.2

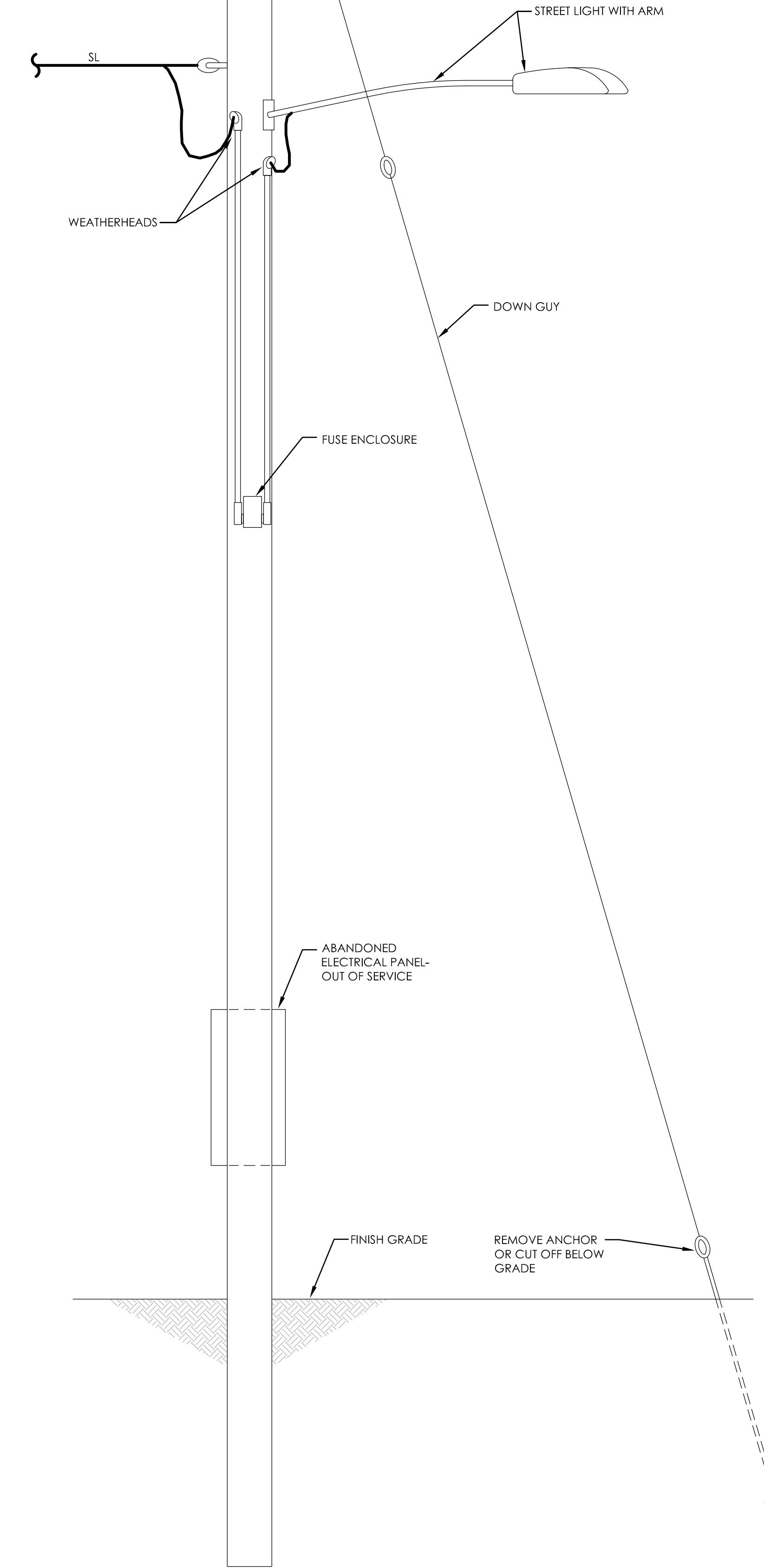
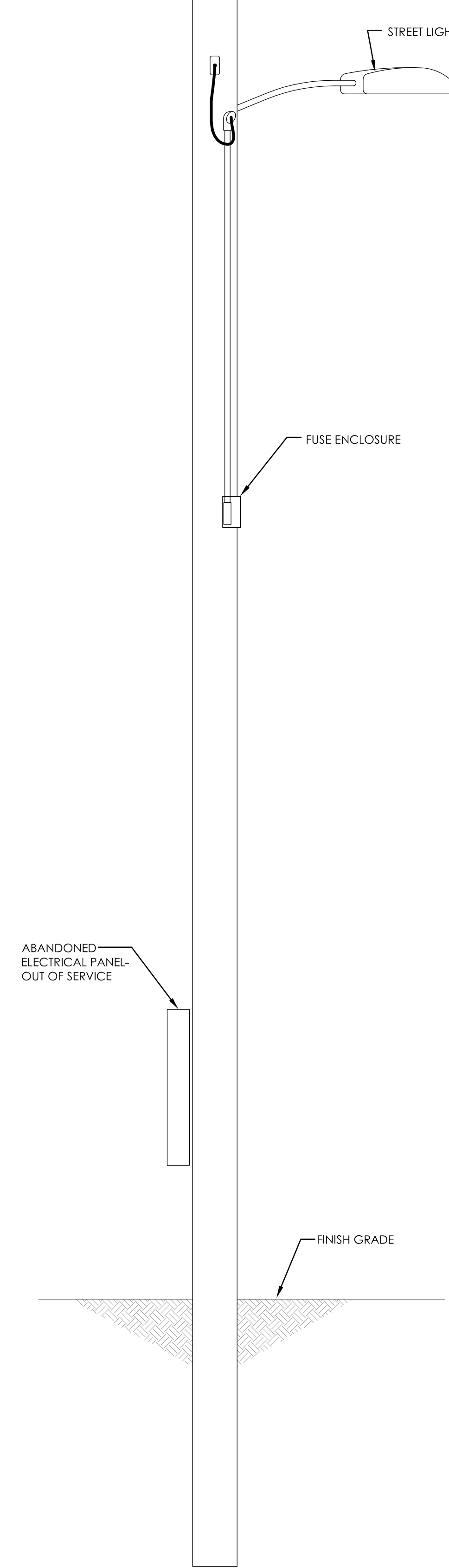
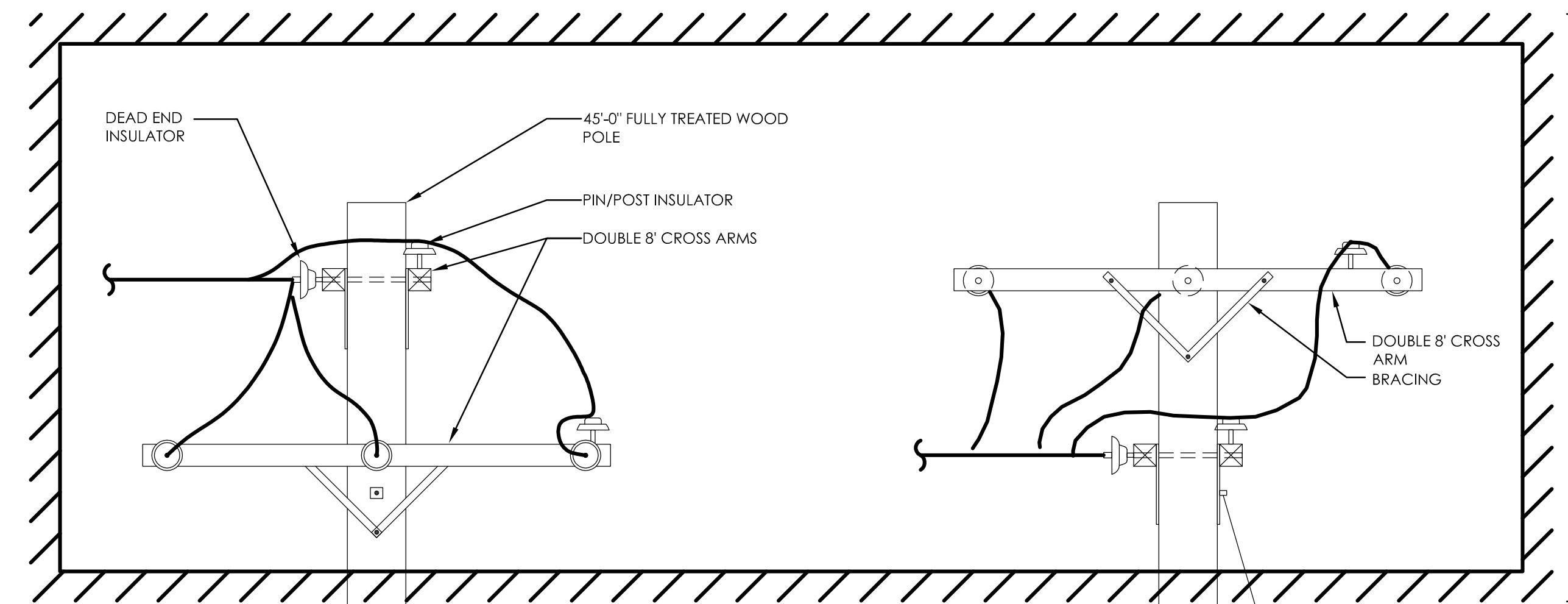


ELEVATION LOOKING EAST

ELEVATION LOOKING NORTH

1 (E) POLE 2 - ELEVATIONS  
SCALE: 1/2"=1'-0"

SHOWN FOR REFERENCE ONLY - NO WORK HERE



ELEVATION LOOKING EAST

ELEVATION LOOKING NORTH

2 (E) POLE 3 - ELEVATIONS  
SCALE: 1/2"=1'-0"



REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

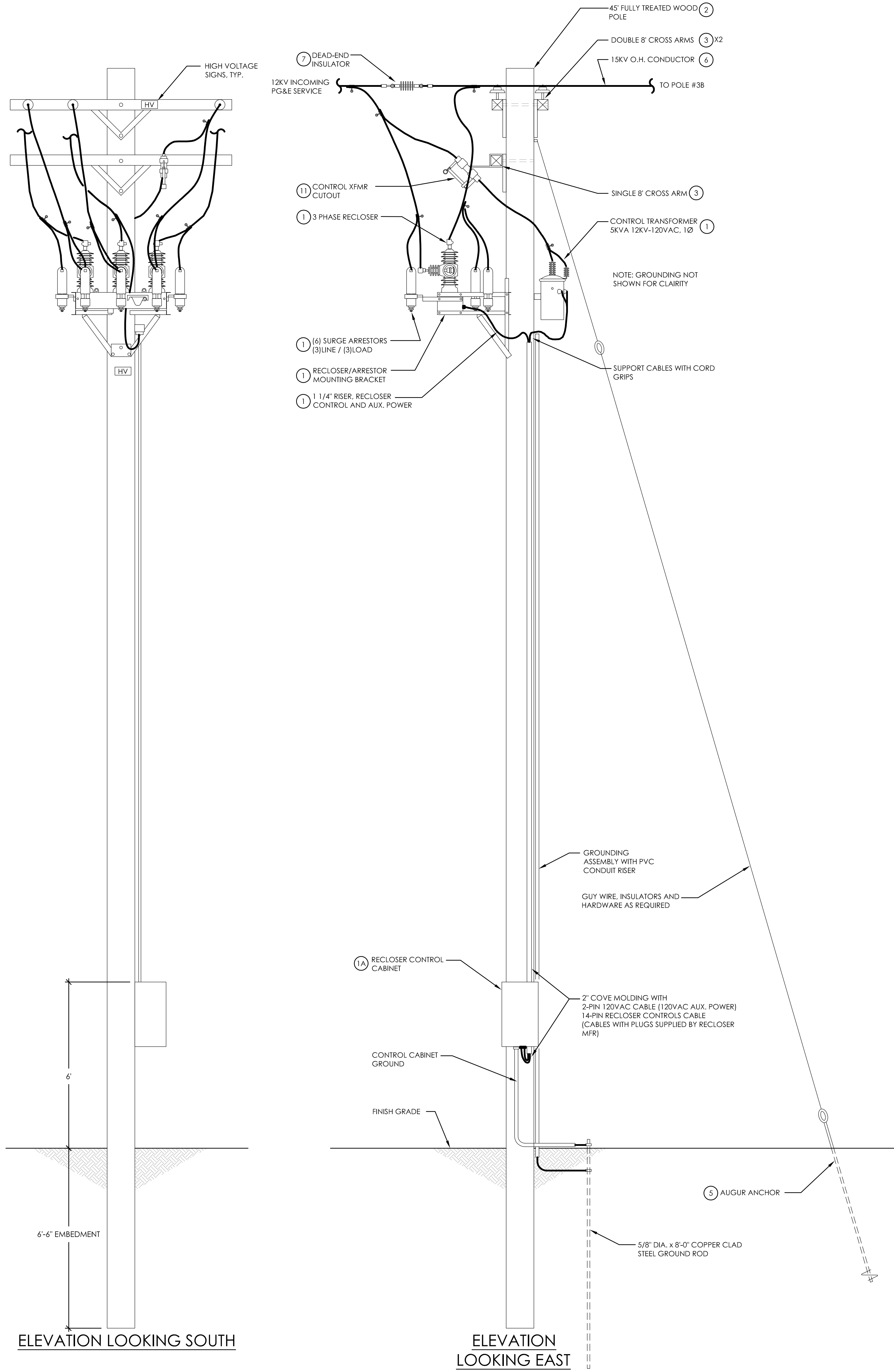
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POLES 2, 3 - ELEVATIONS  
UPGRADE 12.47KV DISTRIBUTION  
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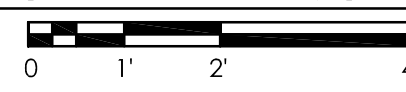
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DATE

SHEET NUMBER  
**E1.3**

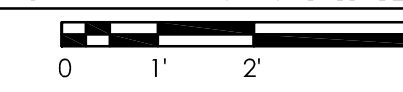




**1 (N) POLE 3A - RECLOSER**  
SCALE: 1/2"=1'-0"



**2 (N) POLE 3B - CORNER**  
SCALE: 1/2"=1'-0"



REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

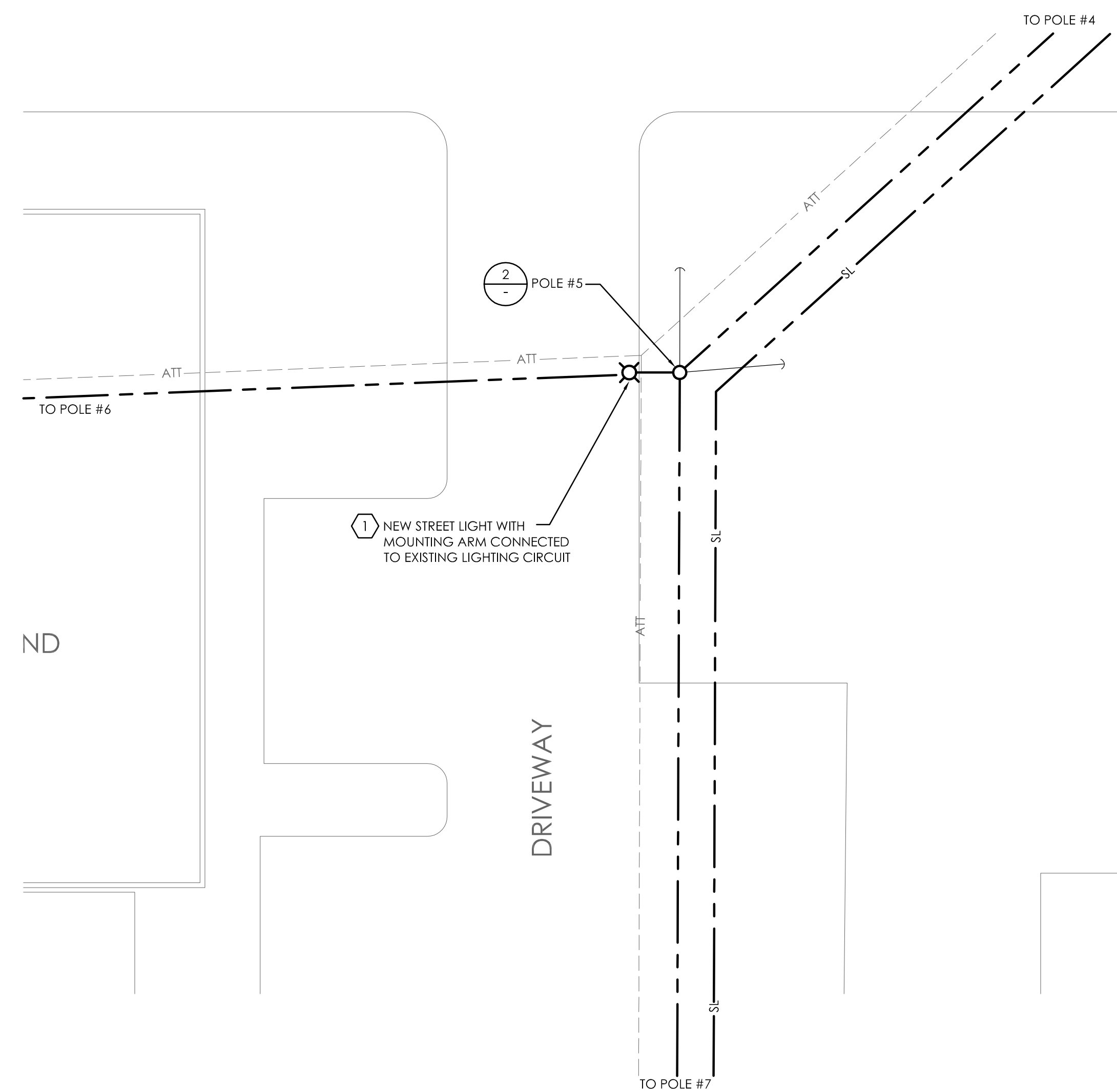
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**POLES 3A, 3B ELEVATIONS**  
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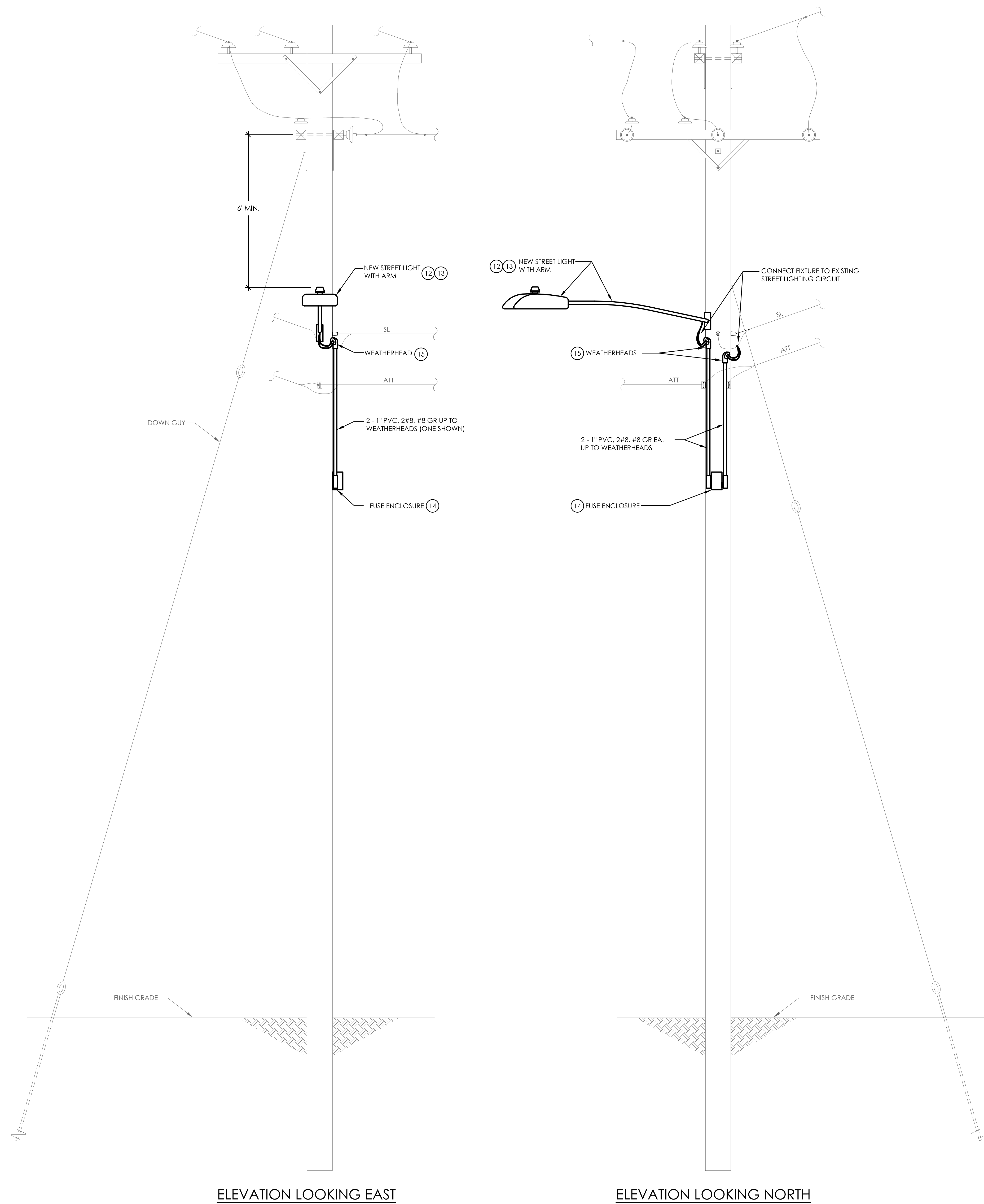
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**E1.4**

MCKEEHAN DRIVE



**1 POLE 5: ENLARGED PLAN**  
SCALE: 1"=10'-0"  
0 10' 20'



**2 (E) POLE 5: ELEVATIONS**  
SCALE: 1/2"=1'-0"  
0 1' 2' 4'

REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

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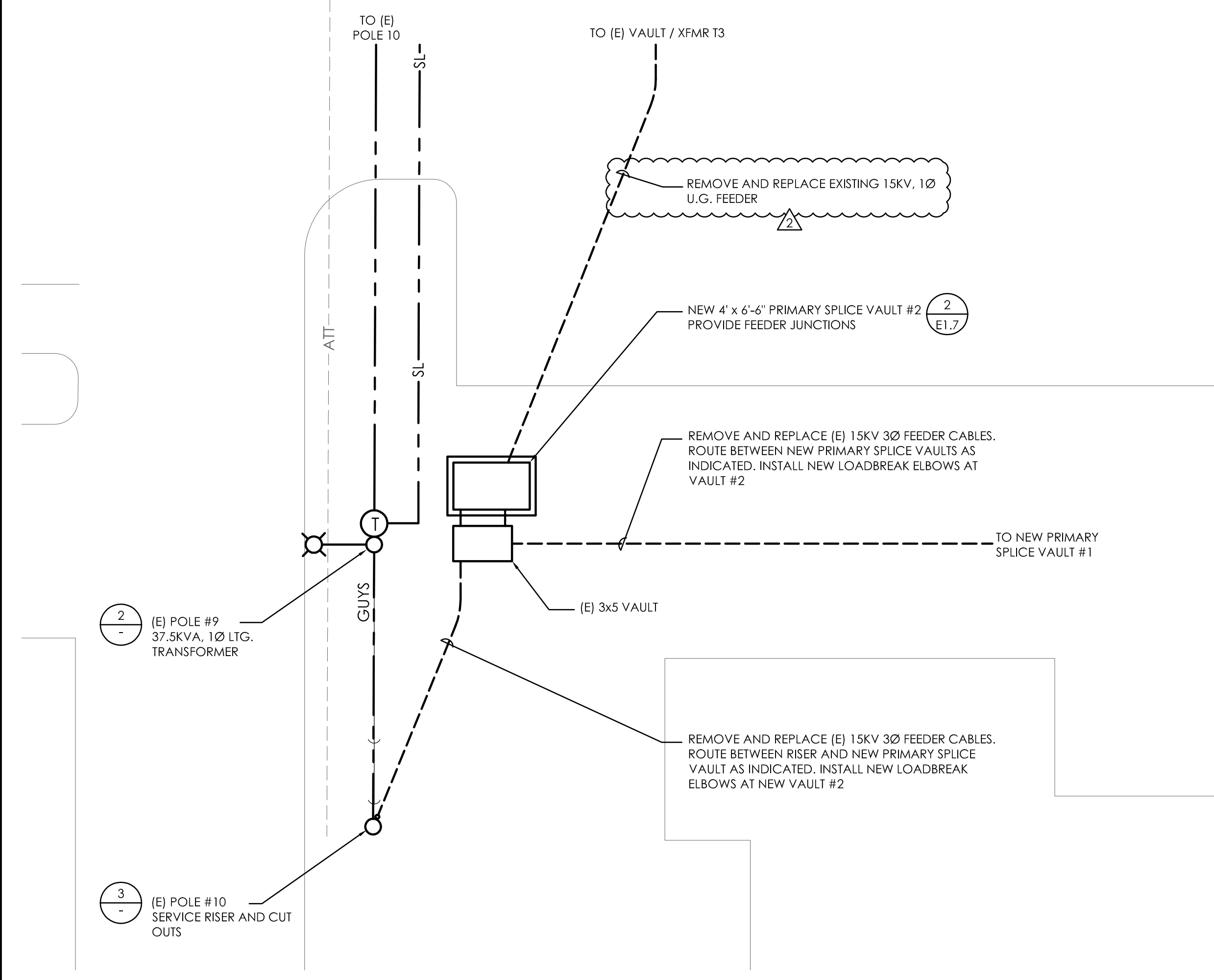
**POLE 5: ENLARGED PLAN AND ELEVATIONS**  
**UPGRADE 12.47KV DISTRIBUTION**  
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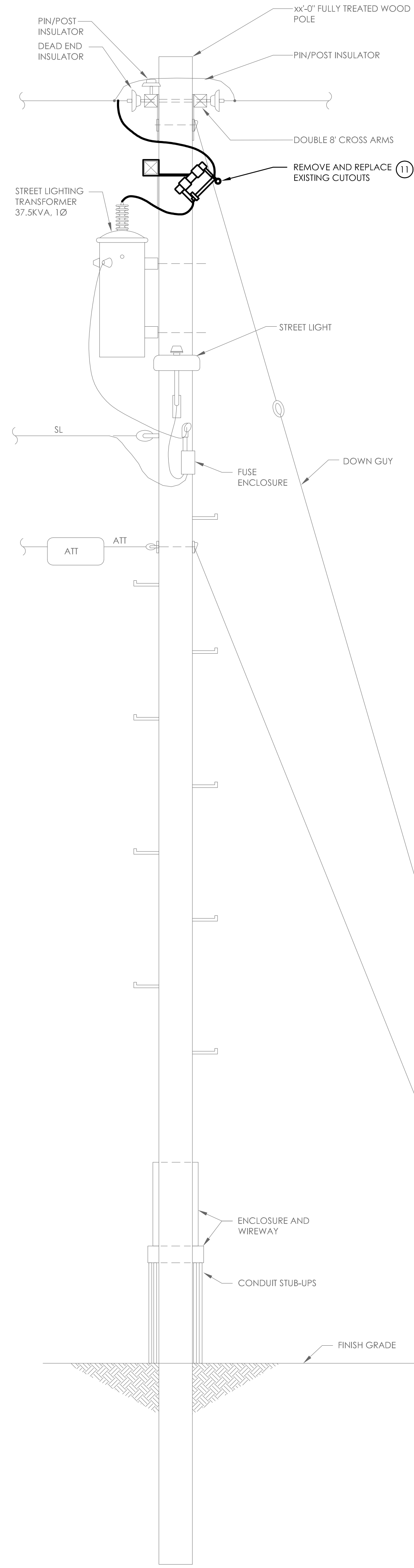


**E15**

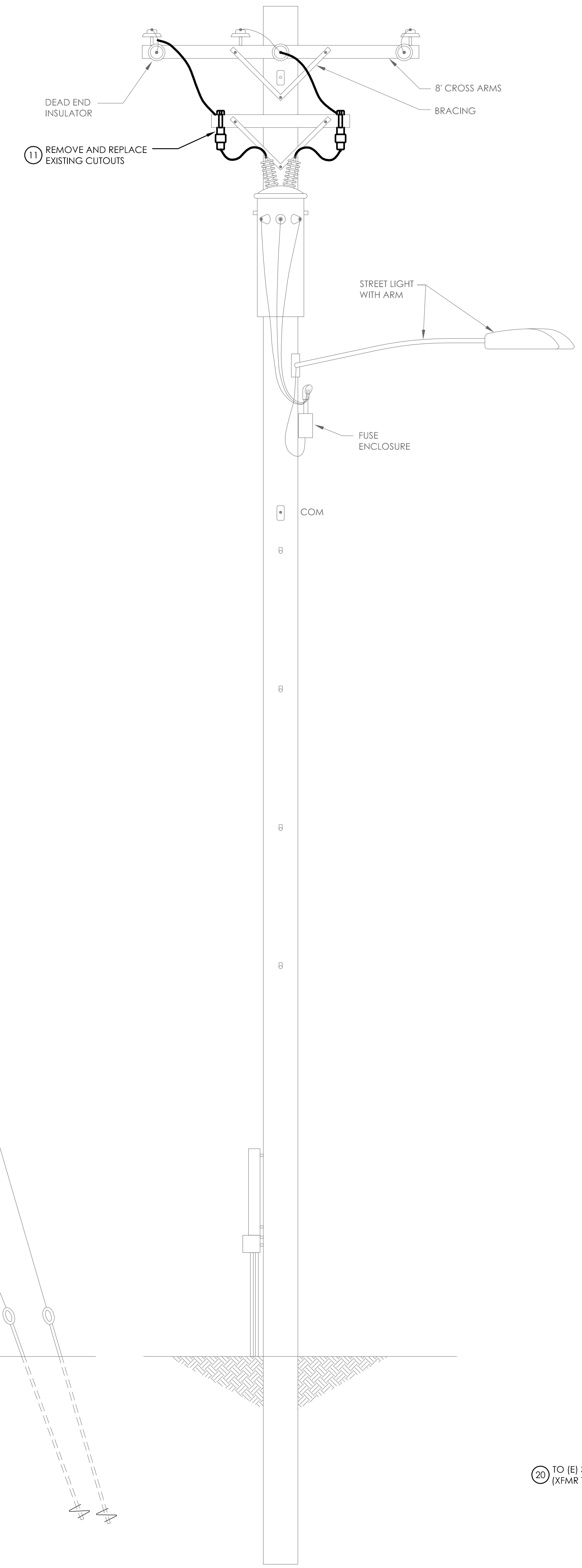




**1 POLE 9: ENLARGED PLAN**  
SCALE: 1/8"=1'-0"

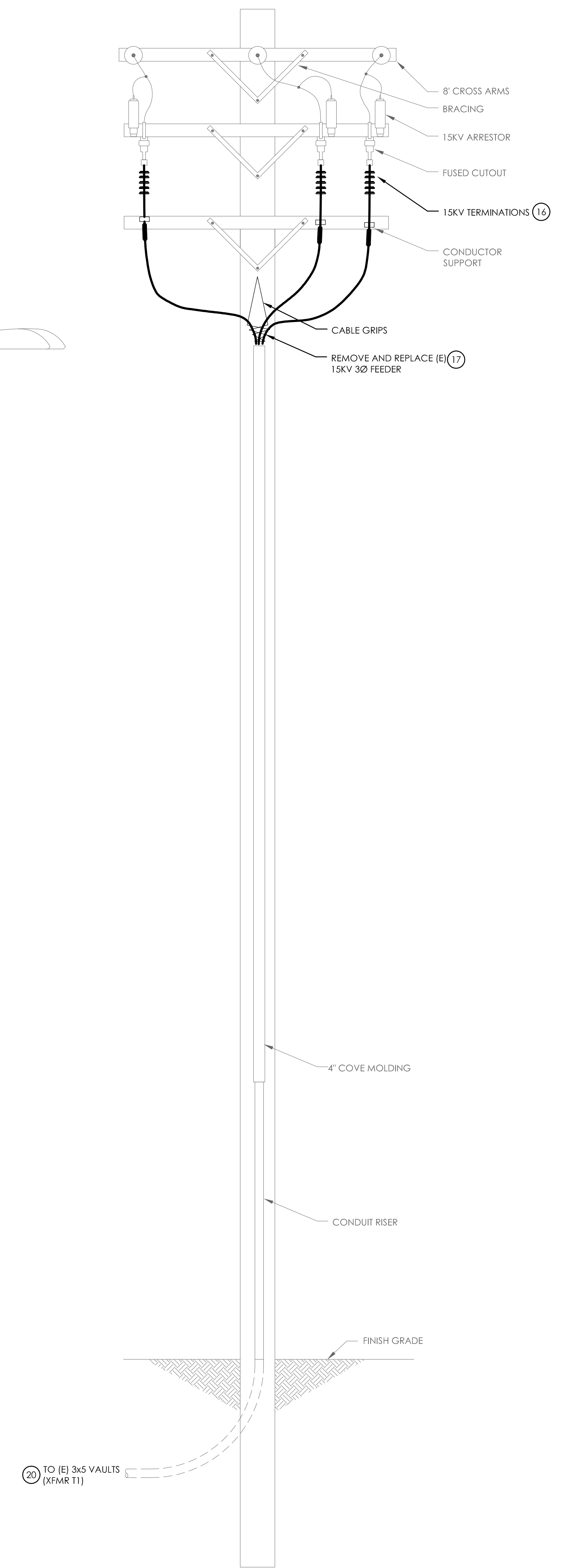


**ELEVATION LOOKING EAST**



**ELEVATION LOOKING SOUTH**

**2 (E) POLE 9 - ELEVATIONS**  
SCALE: 1/2"=1'-0"



**ELEVATION LOOKING SOUTH**

**3 (E) POLE 10 - ELEVATION**  
SCALE: 1/2"=1'-0"

REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 15KV BUSHINGS, FEEDER REPLACEMENT

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**POLE 9: ENLARGED PLAN AND ELEVATIONS**  
**UPGRADE 12.47KV DISTRIBUTION**  
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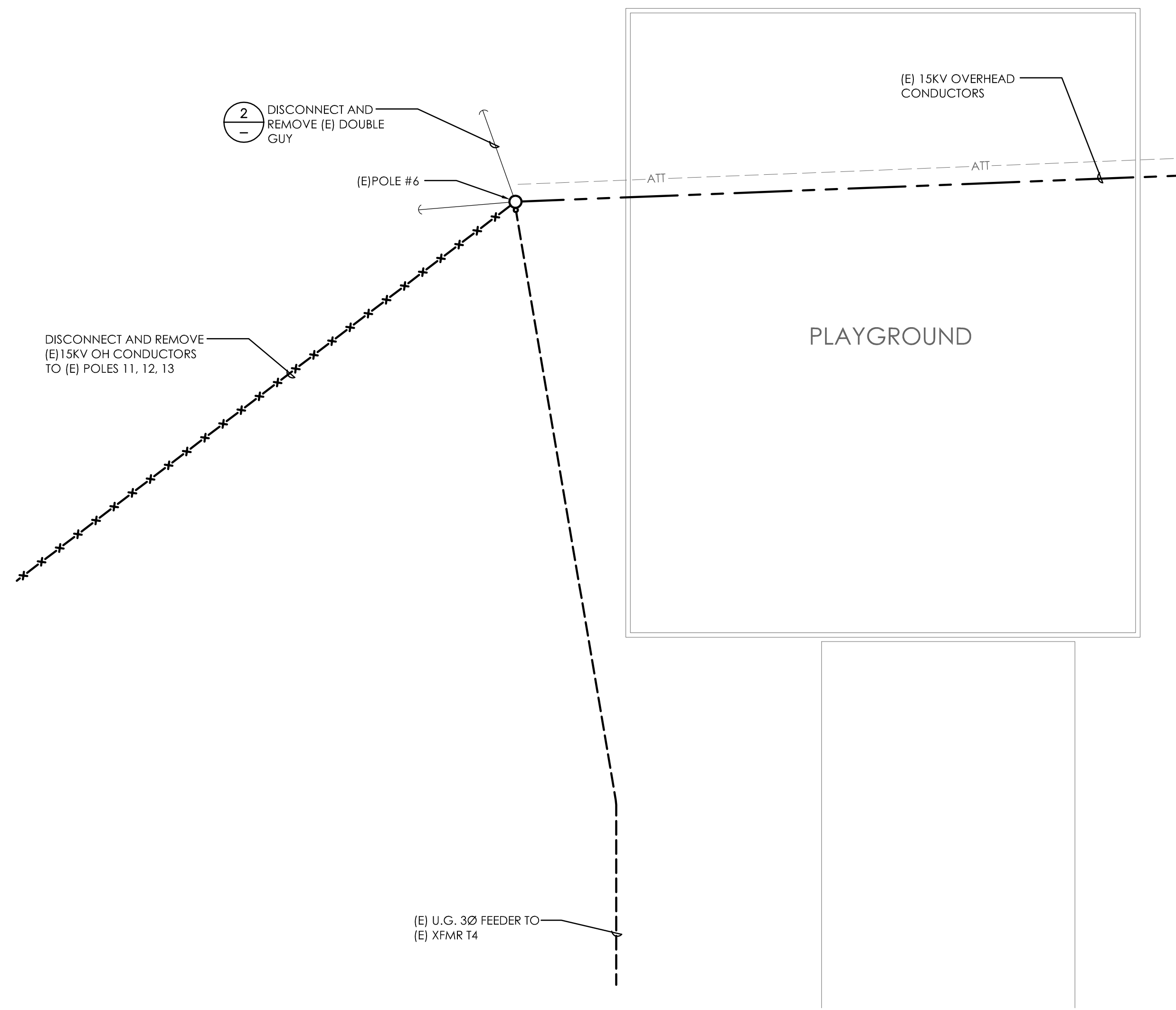
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**E1.6**

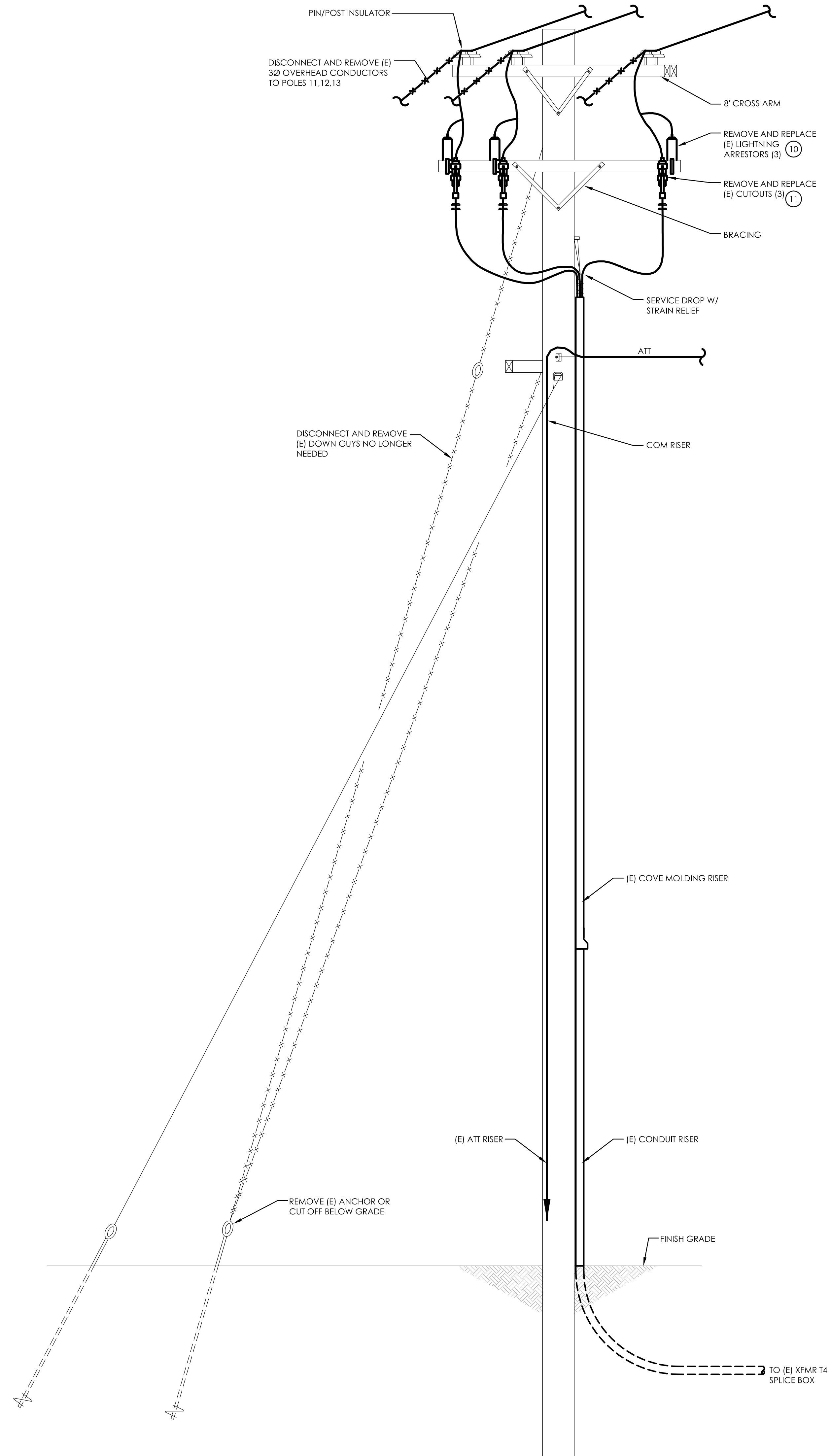




McKEEHAN DRIVE



2 (E) POLE 6 - ENLARGED PLAN  
SCALE: 1"=10'-0"



ELEVATION LOOKING NORTH-EAST

2 (E) POLE 6 - ELEVATION  
SCALE: 1/2"=1'-0"



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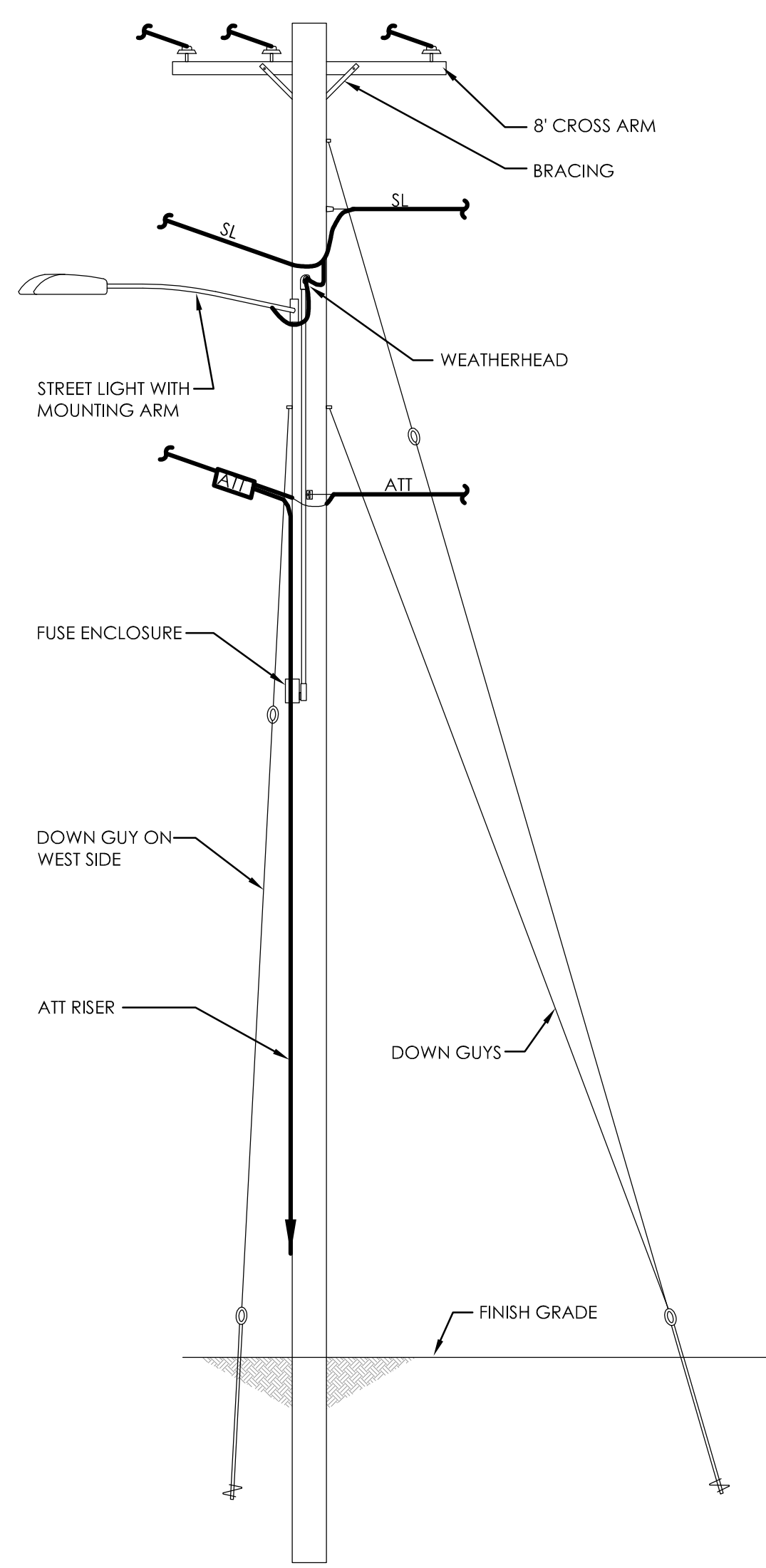
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POLE 6: ENLARGED PLAN AND ELEVATIONS  
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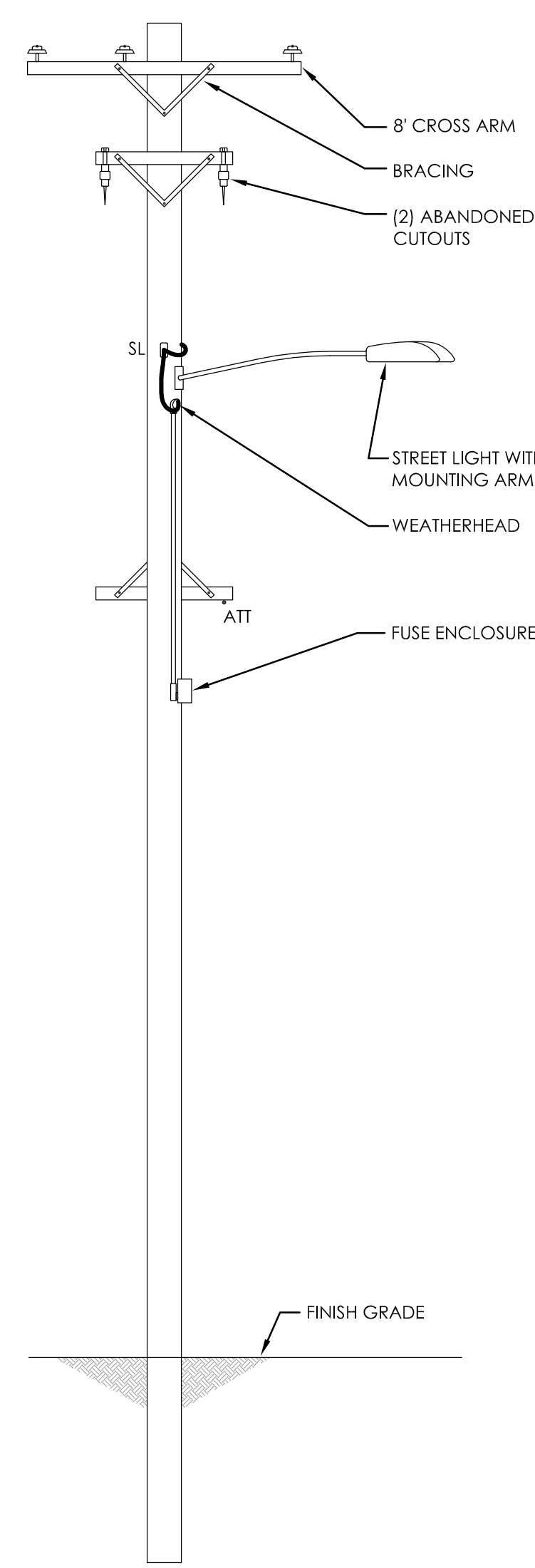
E18





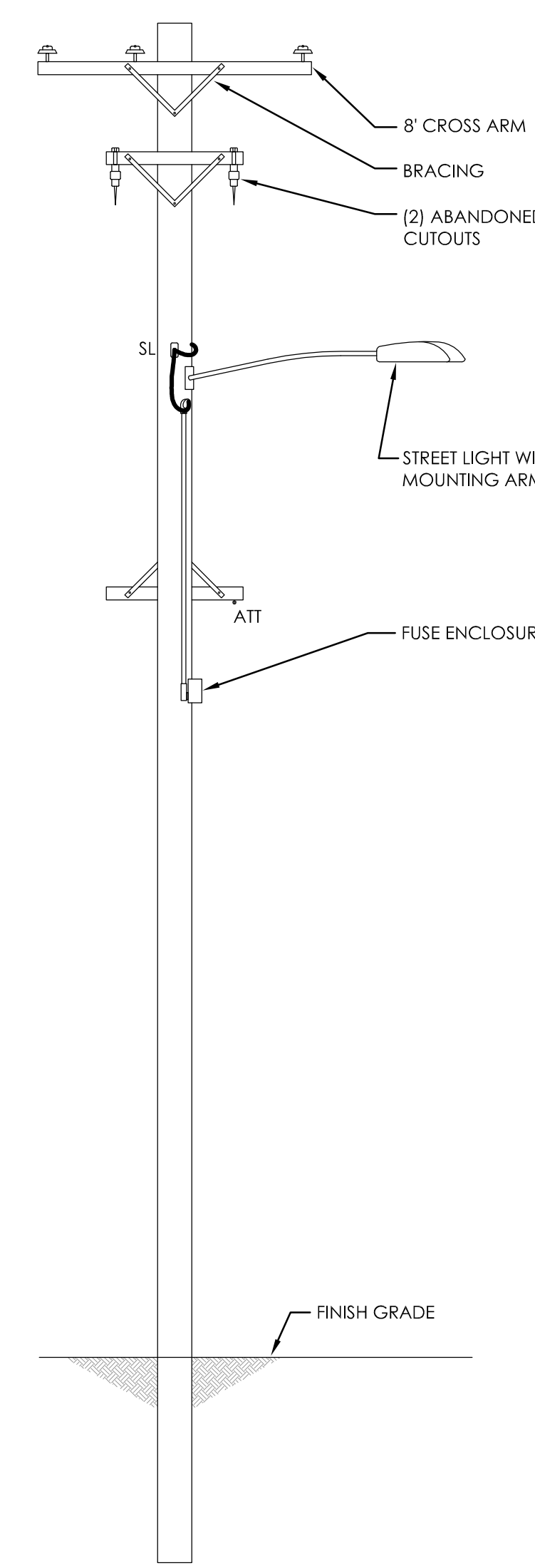
ELEVATION LOOKING WEST

1 (E) POLE 4 - ELEVATION  
SCALE: 1/4"=1'-0"



ELEVATION LOOKING SOUTH

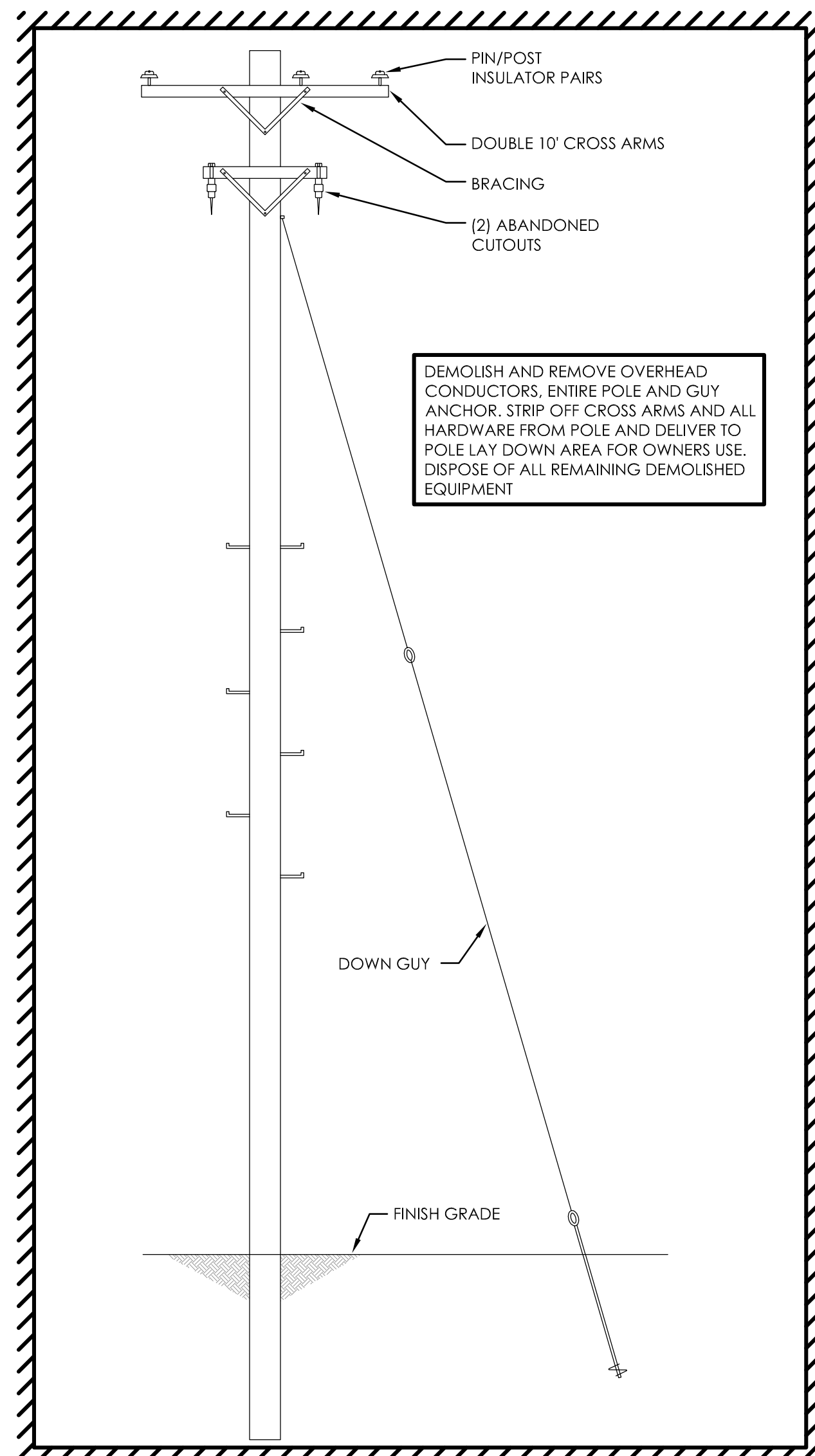
2 (E) POLE 7 - ELEVATION  
SCALE: 1/4"=1'-0"



ELEVATION LOOKING SOUTH

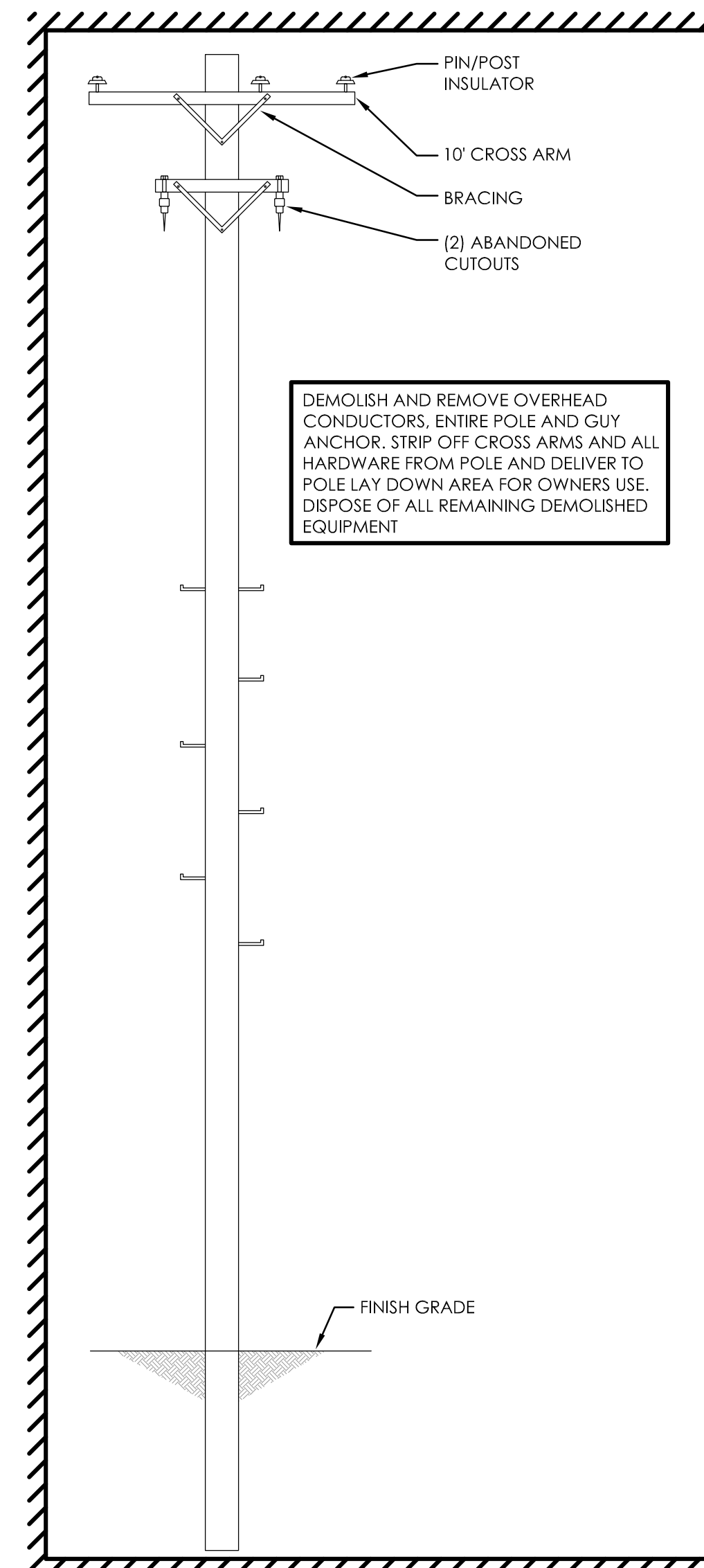
3 (E) POLE 8 - ELEVATION  
SCALE: 1/4"=1'-0"

SHOWN FOR REFERENCE ONLY - NO WORK HERE



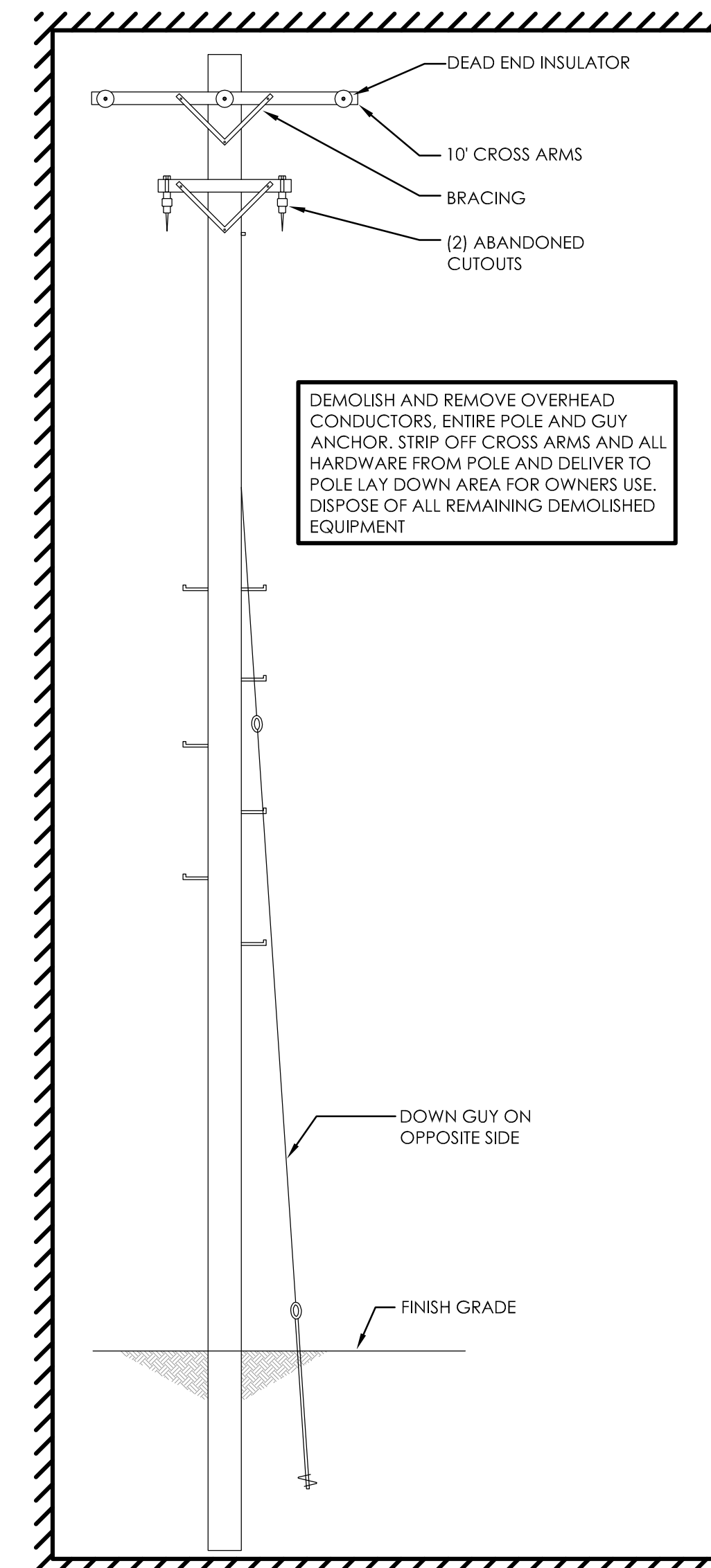
ELEVATION LOOKING SOUTH

4 (E) POLE 11 - ELEVATION  
SCALE: 1/4"=1'-0"



ELEVATION LOOKING SOUTH

5 (E) POLE 12 - ELEVATION  
SCALE: 1/4"=1'-0"



ELEVATION LOOKING SOUTH

6 (E) POLE 13 - ELEVATION  
SCALE: 1/4"=1'-0"

REVISIONS	
1	ISSUED FOR CITY PERMIT
2	ADD 12KV BUSHINGS, FEEDER REPLACEMENT

**Stanton**  
ENGINEERING + E  
1819 K Street, Suite 250  
Sacramento, CA 95826  
916.266.0250 OFFICE

POLE 11, 12, 13 ELEVATIONS  
UPGRADE 12.47KV DISTRIBUTION  
479 BERNARD DRIVE  
YUBA CITY, CALIFORNIA 95993

DRAWN BY  
JRC  
CHECKED BY  
LWM  
JOB NO.  
18032  
DATE  
DATE  
SHEET NUMBER

