

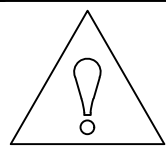
WARNING

Arc Flash and Shock Hazard Appropriate PPE Required

NOTE:

ARC FLASH HAZARD WARNING - ELECTRICAL EQUIPMENT (IE, SWITCHGEAR, PANELS, CONTROL PANELS, METER SOCKED ENCLOSURES) THAT ARE LIKELY TO REQUIRE EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE WHILE ENERGIZED SHALL BE FIELD MARKED TO WARN QUALIFIED PERSONS OF POTENTIAL ARC FLASH HAZARDS. THE MARKING SHALL ADHERE TO NFPA 70E-2009, STANDARD FOR ELECTRICAL SAFETY IN THE WORKPLACE. IN ADDITION, ANSI Z35.4-1998, PRODUCT SAFETY SIGNS AND LABELS. REFER TO DIVISION 26 SPECIFICATION SECTION 26 05 03, "IDENTIFICATION OF ELECTRICAL SYSTEMS" FOR ADDITIONAL REQUIREMENTS.

WHEN MODIFICATIONS TO THE ELECTRICAL INSTALLATION OCCUR, THAT AFFECT THE MAXIMUM AVAILABLE FAULT CURRENT AT THE SERVICE, AND THE MAXIMUM AVAILABLE FAULT CURRENT SHALL BE VERIFIED OR RECALCULATED AS NECESSARY TO ENSURE THE SERVICE EQUIPMENT INTERRUPTING RATINGS ARE SUFFICIENT FOR THE MAXIMUM AVAILABLE FAULT CURRENT AT THE LINE TERMINALS OF THE EQUIPMENT.



WARNING

Arc Flash and Shock Hazard Appropriate PPE Required

ARC FLASH PROTECTION

FLASH HAZARD CATEGORY _____
INCIDENT ENERGY (cal/cm²) _____
WORKING DISTANCE _____
ARC FLASH BOUNDARY _____

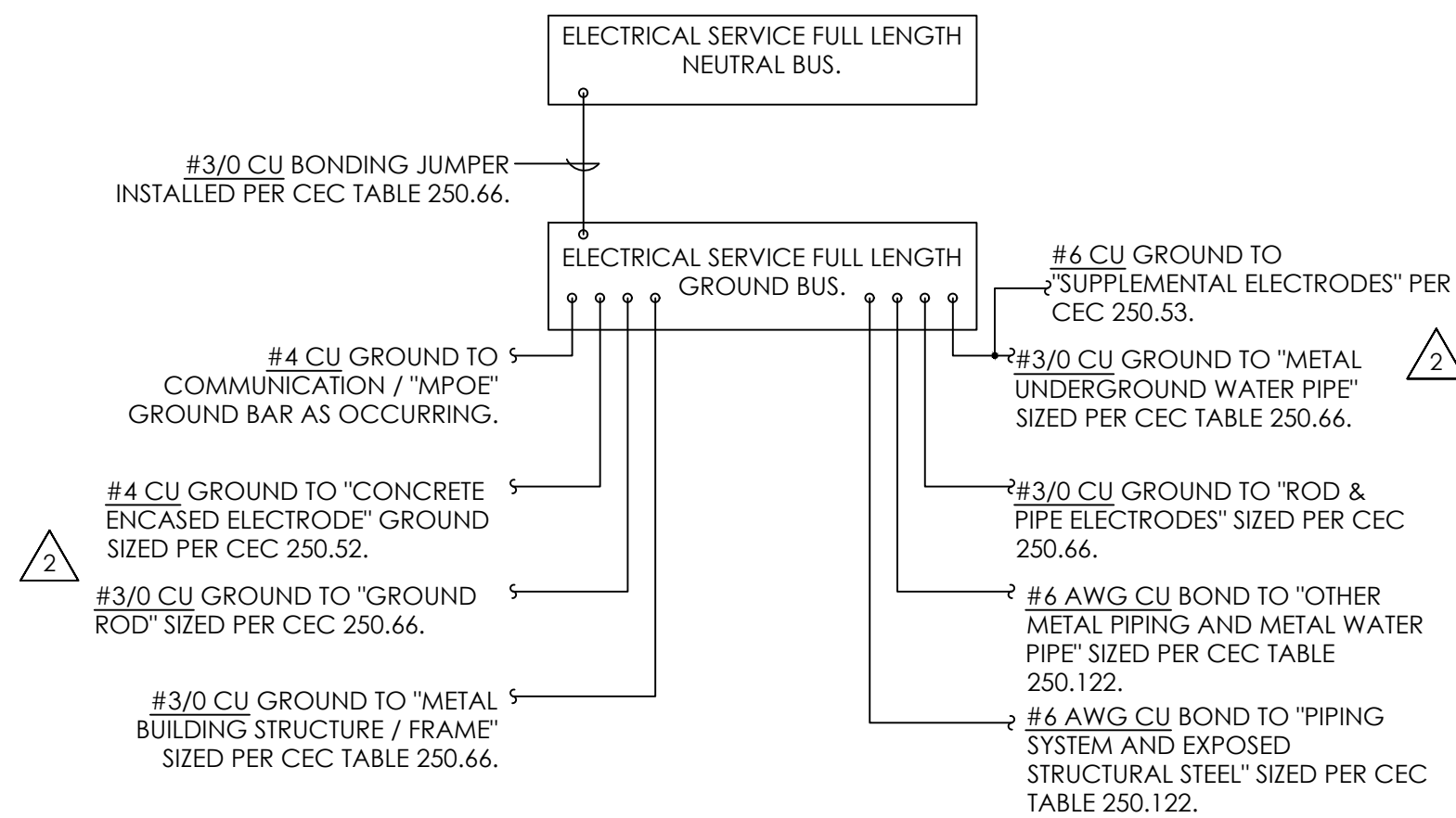
SHOCK PROTECTION

VOLTAGE SHOCK HAZARD _____
LIMITED APPROACH BOUNDARY _____
RESTRICTED APPROACH BOUNDARY _____
PROHIBITED APPROACH BOUNDARY _____
GLOVE CLASS _____

EQUIPMENT ID: _____ DATE PREPARED: _____ BY: _____

1 TYPICAL ARC FLASH SIGNAGE

NOT TO SCALE

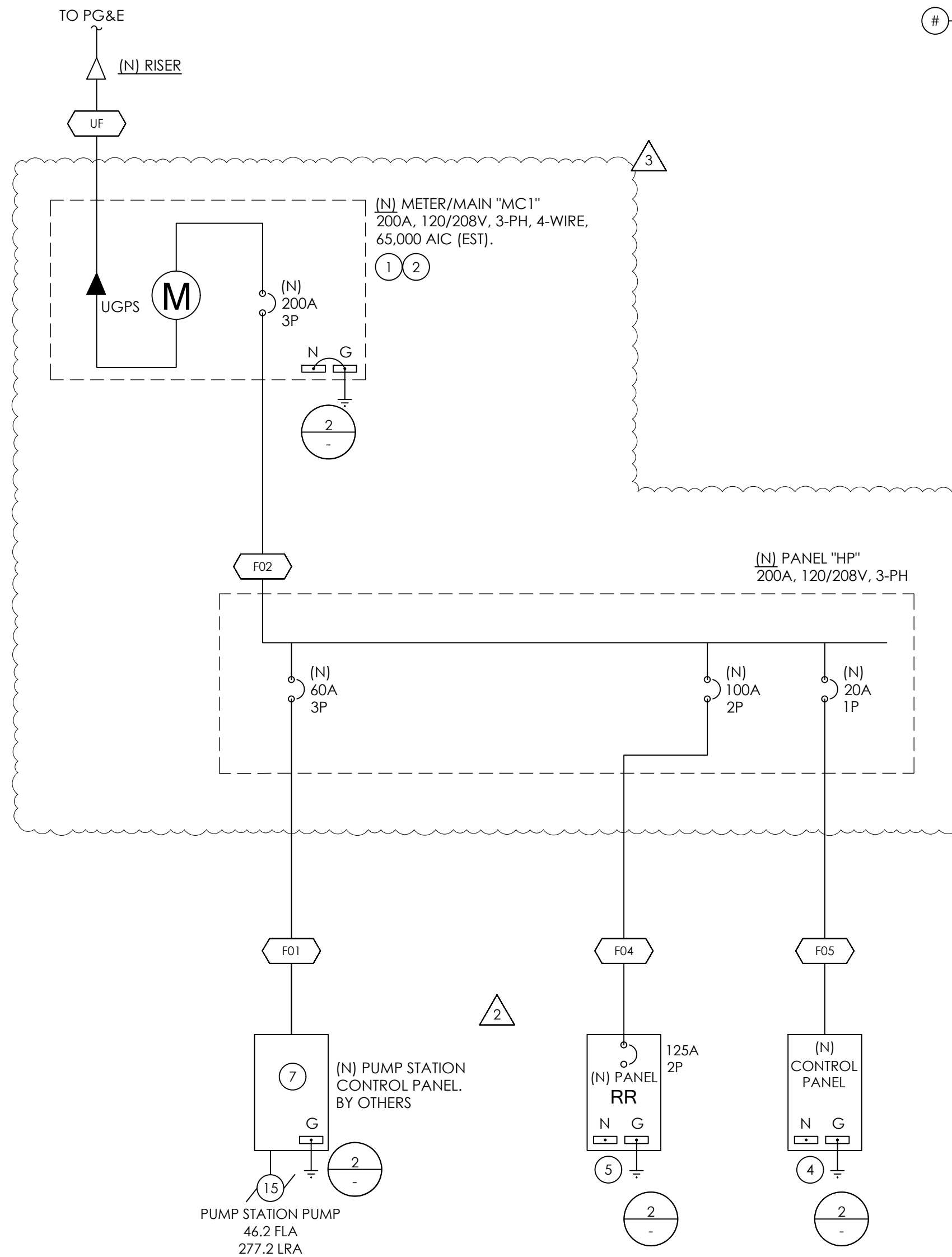


2 GROUND / BOND DETAIL AT NEW SERVICE

NOT TO SCALE

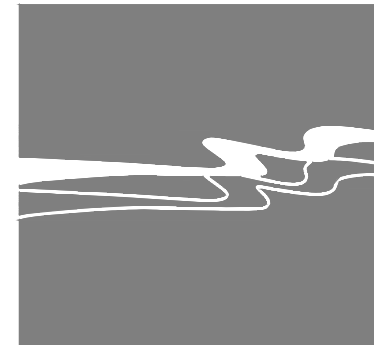
GENERAL NOTES

- GROUNDING SHALL BE IN ACCORDANCE TO THE CEC, ARTICLE 250.
- GROUNDING ELECTRODES PRESENT AND STRUCTURE / BUILDING SHALL BE BONDED TOGETHER TO FORM A COMPLETE GROUNDING ELECTRODE SYSTEM. WHERE GROUNDING ELECTRODES IDENTIFIED IN THIS DETAIL AND CEC 250.52 ARE NOT PRESENT, PROVIDE ONE OR MORE CONNECTIONS TO THE ELECTRODE IDENTIFIED / PRESENT.
- CONSULT CEC ARTICLE 250 FOR GROUND RINGS, OTHER LISTED ELECTRODES, AND PLATE ELECTRODES NOT SHOWN IN THIS DETAIL.
- GROUNDING CONDUCTORS SIZED PER CEC TABLE 250.66 SHALL BE COORDINATED WITH THE UTILITY INSTALLED SECONDARY SERVICE CONDUCTOR SPECIFICATION PRIOR TO INSTALLATION.
- SEPARATELY DERIVED SYSTEMS SHALL BE GROUNDED AS PER CEC 250.30 (A) FOR GROUNDED, AND 250.30 (B) FOR UNGROUNDED SYSTEMS, AND COMPLY WITH 250.20 AND 250.26.
- ALL SERVICE FEEDERS OR BRANCH CIRCUITS SUPPLYING A BUILDING SHALL HAVE A COMMON GROUNDING ELECTRODE SYSTEM.
- ALL GROUNDING ELECTRODES THAT ARE PRESENT AT EACH BUILDING OR STRUCTURE SHALL BE BONDED TOGETHER.
- ALL EQUIPMENT FASTENED IN PLACE OR CONNECTED BY PERMANENT WIRING METHOD SHALL BE GROUNDED.



REFERENCE NOTES

1. NEW UTILITY SERVICE. RATING AS INDICATED.
2. NEW METER. ENCLOSURE RATING NEMA 3R.
3. NEW DISTRIBUTION PANEL "HP". INSTALL AT EXISTING BACKBOARD OR NEAR VICINITY. ENCLOSURE RATING NEMA 3R.
4. NEW SPASHTOP CONTROLLER (BY OTHERS).
5. NEW PANELBOARD FOR PUBLIC RESTROOM (BY OTHERS).
6. NEW PANELBOARD "LP". ENCLOSURE RATING NEMA 3R.
7. NEW PUMP STATION CONTROL PANEL WITH INTEGRAL OVERCURRENT PROTECTION AND MOTOR CONTROLS (BY OTHERS). SEE SHEET E-2.0 FOR ADDITIONAL INFORMATION.



CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES
612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us

SINGLE LINE DIAGRAM GENERAL NOTES

- FAULT CURRENT CALCULATION NOTE
THE ELECTRICAL DISTRIBUTION SHALL BE PROVIDED WITH A FAULT RATING CAPABLE TO WITHSTAND THE VALUE INDICATED ON THE SINGLE LINE DIAGRAM AND / OR REFLECTED IN THE FEEDER SCHEDULE PREPARED FOR THIS PROJECT. THE FORMULAS USED IN THIS CALCULATION ARE AS FOLLOWS:

C FACTOR = 1/Z PER LF
F FACTOR = $[1.73 \times L \times I] / [PC \times C \times E]$
M FACTOR = $1 / [1 + F \text{ FACTOR}]$
SHORT CIRCUIT AMPS AT FAULT = $1 \times M$

DEFINITIONS

- Z PER LF = CONDUCTOR IMPEDANCE PER LINEAR FOOT
L = CONDUCTOR LENGTH IN LINEAR FEET
I = FAULT CURRENT RATING AVAILABLE AT THE SOURCE
PC = QUANTITY OF PARALLEL CONDUCTORS PER PHASE
C = C FACTOR (SEE EQUATION)
E = LINE VOLTAGE
- THE CONTRACTOR SHALL MEET ALL SERVING UTILITY REQUIREMENTS WITH RESPECT TO PROCUREMENT AND INSTALLATION OF THE ELECTRICAL SERVICE. REQUIREMENTS INCLUDE, HOWEVER ARE NOT LIMITED TO THE FOLLOWING:
- CONDUCTORS SHALL BE THHN/THWN COPPER UNLESS OTHERWISE NOTED. AMPACITY SIZES NOTED ON THE CONSTRUCTION DOCUMENTS ARE BASED ON 75 DEG.
- TERMINALS FOR SWITCHES, CIRCUIT BREAKERS AND OTHER EQUIPMENT, AS SPECIFIED, SHALL BE LISTED AND IDENTIFIED FOR USE WITH 75 DEG. CONDUCTORS.
- FINAL TERMINATIONS OF CONDUCTORS TO ELECTRICAL EQUIPMENT AND DEVICES SHALL BE TORQUE-WRENCH TIGHTENED TO THE MANUFACTURER RECOMMENDED SPECIFICATION.
- EMERGENCY DISTRIBUTION EQUIPMENT (I.E. BOXES, CABINETS, TRANSFER SWITCHES, GENERATORS, POWER PANELS, ETC.) SHALL BE PERMANENTLY MARKED SO THEY WILL BE READILY IDENTIFIED AS A COMPONENT OF AN EMERGENCY CIRCUIT OR SYSTEM IN ACCORDANCE TO NEC 700-9(A).

SERIES RATED EQUIPMENT
SERIES RATED EQUIPMENT SHALL NOT BE PERMITTED.

SINGLE LINE DIAGRAM

SCALE: NTS

3

2

HART PARK ADVENTURE PLAYGROUND -- FEEDER SCHEDULE														
FEEDER NO.	LOAD DESIGNATION	AMPACITY	CONDUIT SIZE		FEEDER SPECIFICATION				ESTIMATED CONDUCTOR LENGTH (LF) (SEE NOTE #1)	CALCULATED VOLTAGE DROP		AMPS INTERRUPTING CAPACITY (AIC) (SEE NOTES #1, 2)		
			#	SPECIFICATION	#	SPECIFICATION	+	#		GND. SPECIFICATION	Eq.		CALCULATED PER FEEDER	TOTAL FROM SOURCE
UF	METER	200A	(1) 3" C.O. WITH PULL ROPE. REFER TO UTILITY HANDOUT PACKAGE							-	-	-	65,000 (EST.)	
F01	PUMP 1	70A	1	3/4" C	3	#4 AWG THWN CU.	+	1	#6 AWG CU. GND.	-	95	1.1	1.1	10,687
F02	HP	200A	1	2" C	4	#3/0 AWG THWN CU.	+	1	#6 AWG CU. GND.	-	5	0.0	-	51,830
F03														
F04	PANEL RR	150A	1	2" C	3	#1/0 AWG THWN CU.	+	1	#6 AWG CU. GND.	-	275	2.0	2.0	2,754
F05	SC	55A	1	3/4" C	2	#6 AWG THWN CU.	+	1	#6 AWG CU. GND.	-	185	3.0	3.1	1,219

NOTES:
1. CONDUCTOR LENGTH HAS BEEN PROVIDED AS THE BASIS OF DESIGN FOR BOTH VOLTAGE DROP AND AIC CALCULATION. CONDUCTOR LENGTH NOTED SHALL NOT BE USED FOR BIDDING OR PROCUREMENT PURPOSES. SHOULD THE ACTUAL CONDUCTOR LENGTH DIFFER FROM WHAT HAS BEEN SPECIFIED, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR REVIEW AND RE-CALCULATION AS MAY BE NECESSARY.
2. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RATED TO WITHSTAND A MIN. OF THE CALCULATED SHORT CIRCUIT CURRENT.

NOTES:

1. CONDUCTOR LENGTH HAS BEEN PROVIDED AS THE BASIS OF DESIGN FOR BOTH VOLTAGE DROP AND AIC CALCULATION. CONDUCTOR LENGTH NOTED SHALL NOT BE USED FOR BIDDING OR PROCUREMENT PURPOSES. SHOULD THE ACTUAL CONDUCTOR LENGTH DIFFER FROM WHAT HAS BEEN SPECIFIED, THE CONTRACTOR SHALL CONTACT THE ENGINEER OF RECORD FOR REVIEW AND RE-CALCULATION AS MAY BE NECESSARY.
2. ELECTRICAL DISTRIBUTION EQUIPMENT SHALL BE RATED TO WITHSTAND A MIN. OF THE CALCULATED SHORT CIRCUIT CURRENT.



COUNTY OF KERN
GENERAL SERVICES
DIVISION
OF THE
COUNTY ADMINISTRATIVE OFFICE
1115 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

PROJECT

HART PARK
PROP 68
IMPROVEMENTS
LEVEE & LAKE ROAD
BAKERSFIELD, CA
93308

APPROVED BY:
COUNTY BOARD OF SUPERVISORS

CHAIRMAN, BOARD OF SUPERVISORS _____ DATE _____

RECOMMENDED FOR APPROVAL
DEPARTMENT _____

DIRECTOR _____ DATE _____

RECOMMENDED FOR APPROVAL
GENERAL SERVICES DIVISION _____

CHIEF, GENERAL SERVICES OFFICER _____ DATE _____

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, THE PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. NO PART THEREOF SHALL BE COPIED, ELECTRONICALLY MODIFIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDENDA, AS-BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

CONSULTANT STAMP



EXPIRES: 12/31/2024
GECE #2219

DATE	REV	DESCRIPTION
05/02/24	1	PERMIT SET
10/04/24	2	PERMIT SET
12/16/24	3	AMENDMENT 1

DATE 12/04/2023	SHEET NO.
DESIGNED BY HG	E-1.0
DRAWN BY MC	
CHECKED BY HG	
JOB NO. 1650.7014-21	DRAWING FILE 20MM010

HART PARK PROP 68 IMPROVEMENTS
SINGLE LINE DIAGRAM



GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP.
2529 PROFESSIONAL PKWY SUITE A - P.O. BOX #348 SANTA MARIA, CA 93455
P. 805-361-0525
EINFO@GECECORP.COM
WWW.GECECORP.COM

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP. ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP. SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

3

PANEL HP																					
TYPE: BUS:		(E-1.0) AIC PANEL & BRANCH CIRCUITS 16 FULL SIZE BOLT ON CIRCUIT BREAKER SPACES PROVIDE WITH EQUIPMENT GROUND BUS															LOCATION: BACKBOARD NEMA: 3R MOUNTING: SURFACE FEED FROM: UTILITY				
NOTES	CIRCUIT	DESCRIPTION	BREAKER	WIRE	LF	VD[%]	PF	TYPE	PHASE A	PHASE B	PHASE C	TYPE	PF	VD[%]	LF	WIRE	BREAKER	DESCRIPTION	CIRCUIT	NOTES	
2	1	PANEL RR	*1/2	-	-	-	-	C	6313								20/1	SPARE	2		
2	3	"		-	-	-	-	C		6313							20/1	SPARE	4		
2	5	PANEL SC	*1/1 (GFI)	-	-	-	-	-			1920 180	R	0.8	0.1	1	12	20/1 (GFI)	R-SITE	6		
2	7	PUMP STATION PUMP	*1/3	-	-	-	-	C	5817									SPACE	8		
2	9	"		-	-	-	-	C		5817								SPACE	10		
2	11	"		-	-	-	-	C			5817							SPACE	12		
	13	SPACE																SPACE	14		
	15	SPACE																SPACE	16		
SUBTOTAL (VA)									12130	12130	7917										
CONTINUOUS									3033	3033	1454										
AMPS @ 120									126	126	78										

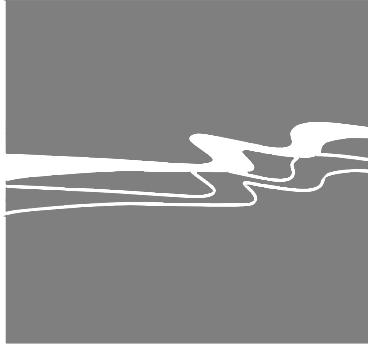
PANEL SCHEDULE NOTES

PANEL SCHEDULE LOAD TYPE INDEX:
"C" = CONTINUOUS LOAD, OPERABLE FOR 3 HOURS OR MORE. LOAD CALCULATED AT 125% OF TOTAL CONNECTED LOAD.
"K" = KITCHEN APPLIANCE LOAD, SUBJECT TO 75% DEMAND FACTOR PER NEC 220.53 IF GREATER THAN/EQUAL TO FOUR APPLIANCES.
"M"= MECHANICAL LOAD. NO DEMAND FACTOR APPLIED.
"R" = RECEPTACLE LOAD.
"G"= GENERAL LOAD.

- GENERAL NOTES:
- VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED IN ACCORDANCE TO 2016 CALIFORNIA ENERGY CODE STANDARDS (TITLE 24, ELECTRICAL POWER DISTRIBUTION). CONDUCTOR LENGTH INDICATED SHALL NOT BE USED FOR BIDDING AND PROCUREMENT PURPOSES. FIELD COORDINATE CONDUCTOR LENGTH REQUIRED AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
 - FOR CIRCUITS WITH MULTIPLE LOADS (I.E. RECEPTACLES, LIGHTING) THE CIRCUIT ESTIMATED LENGTH IS DETERMINED BY THE FURTHEST DEVICE LOCATION.
 - WHERE BRANCH CIRCUITS HAVE NOT BEEN LOADED TO THE MAXIMUM ALLOWABLE CIRCUIT CAPACITY, VOLTAGE DROP CALCULATIONS HAVE BEEN PREPARED BASED ON CONNECTED LOAD INDICATED, UNLESS OTHERWISE NOTED.

VOLTAGE DROP CALCULATION:
VOLTAGE DROP (%) = (2 x OHMS PER 1000 LF x CONDUCTOR LENGTH x AMPS) / (1000 x QTY OF WIRES PER PHASE)

- SCHEDULE SPECIFIC NOTES:
1. VERIFY LOAD, CIRCUIT BREAKER, AND CONDUCTOR SIZE WITH EQUIPMENT MANUFACTURER SPECIFICATIONS.
 2. SEE SINGLE LINE DIAGRAM FOR OVERCURRENT PROTECTION DEVICE RATING AND FEEDER SCHEDULE FOR CONDUCTOR SPECIFICATION ON SHEET E-1.0.



CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES
612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us



COUNTY OF KERN
GENERAL SERVICES
DIVISION
OF THE
COUNTY ADMINISTRATIVE OFFICE
1115 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

PROJECT

HART PARK
PROP 68
IMPROVEMENTS

LEVEE & LAKE ROAD
BAKERSFIELD, CA
93308

APPROVED BY:
COUNTY BOARD OF SUPERVISORS

CHAIRMAN, BOARD OF SUPERVISORS _____ DATE _____

RECOMMENDED FOR APPROVAL
DEPARTMENT _____

DIRECTOR _____ DATE _____

RECOMMENDED FOR APPROVAL
GENERAL SERVICES DIVISION _____

CHIEF, GENERAL SERVICES OFFICER _____ DATE _____

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, THE PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. NO PART THEREOF SHALL BE COPIED, ELECTRONICALLY MODIFIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDITIONAL AS-BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

CONSULTANT STAMP

EXPIRES: 12.31.2024
GECE #2219

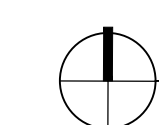
DATE	REV	DESCRIPTION
05/02/24	1	PERMIT SET
10/04/24	2	PERMIT SET
12/16/24	3	AMENDMENT 1

DATE	12/04/2023	SHEET NO.
DESIGNED BY	HG	E-1.1
DRAWN BY	MC	
CHECKED BY	HG	
JOB NO.	1650.7014-21	DRAWING FILE
HART PARK PROP 68 IMPROVEMENTS		20MM010
ELECTRICAL SCHEDULES		



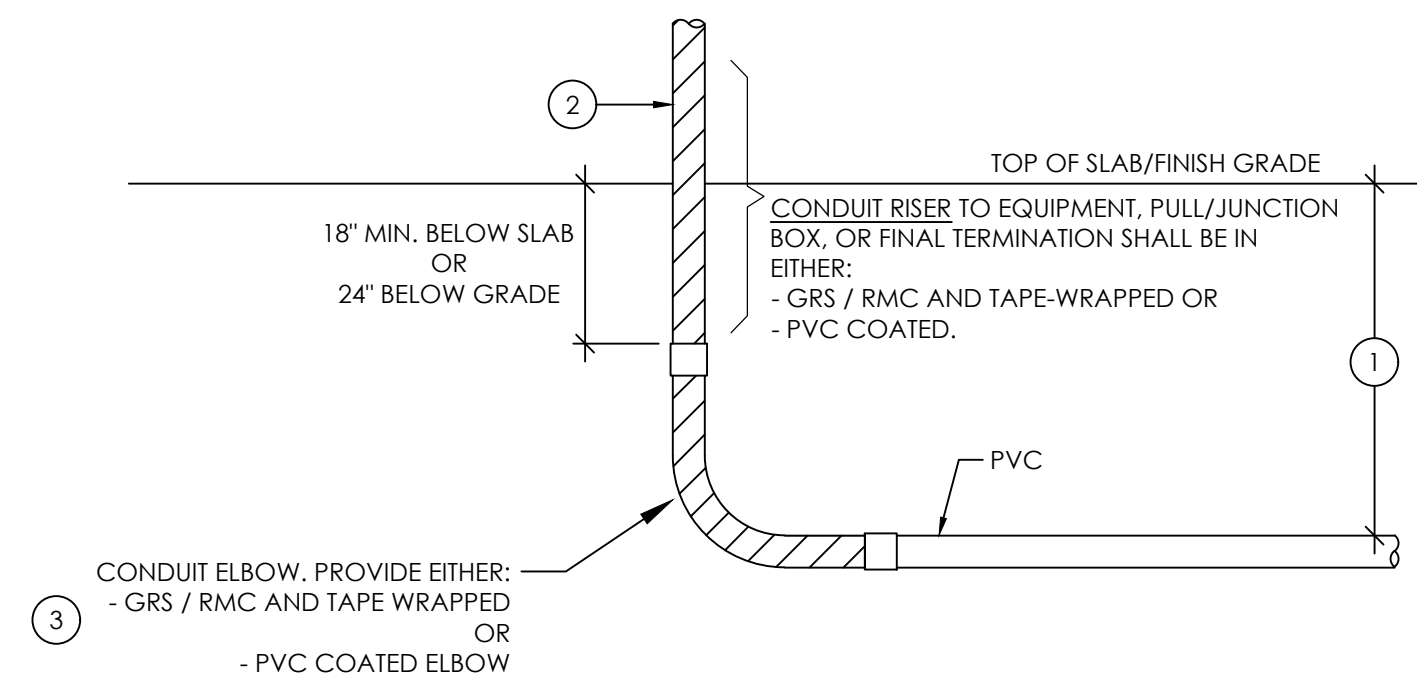
GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP
2529 PROFESSIONAL PKWY | P. 805-361-0525
SUITE A - P.O. BOX #368 | EINFO@GECECORP.COM
SANTA MARIA, CA 93455 | WWW.GECECORP.COM

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.



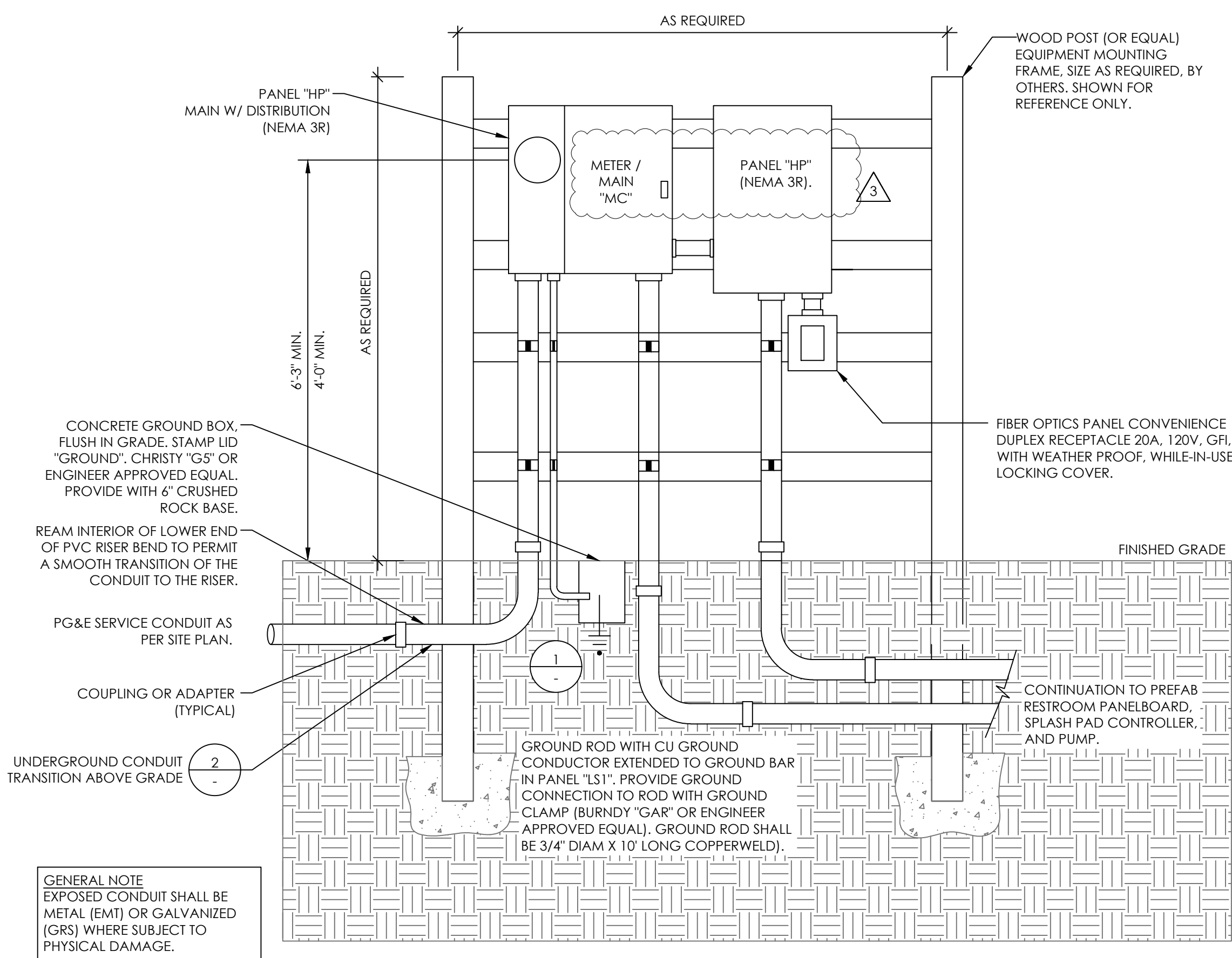
SCALE: 1" = 35' - 0'

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

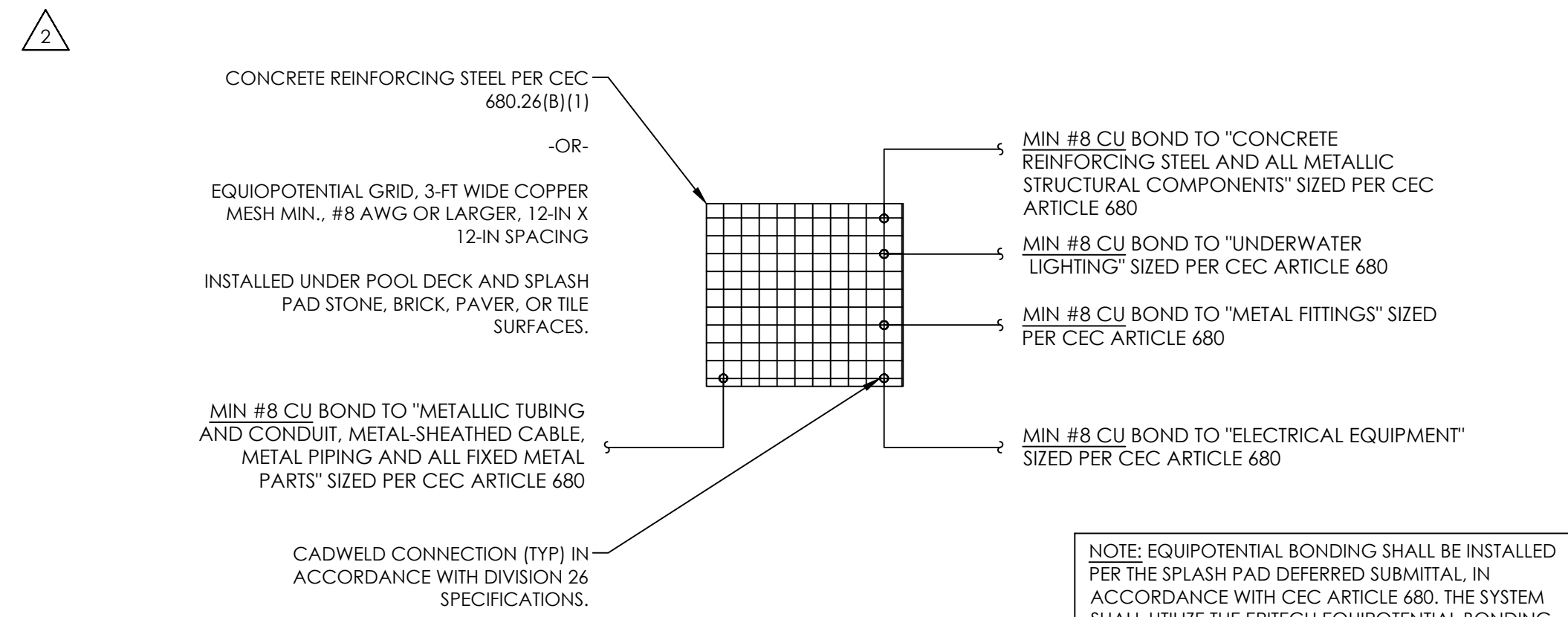


- NOTES:
1. REFER TO TRENCH DETAILS FOR SPECIFICATIONS OF CONDUIT DEPTH.
 2. WHEN CONDUIT IS TAPE-WRAPPED IT SHALL BE 1/2\"/>
 3. APPLICABLE FOR CONDUIT EXTENSION OF 150 FEET AND GREATER AS INDICATED PER DIVISION 26 SPECIFICATIONS.

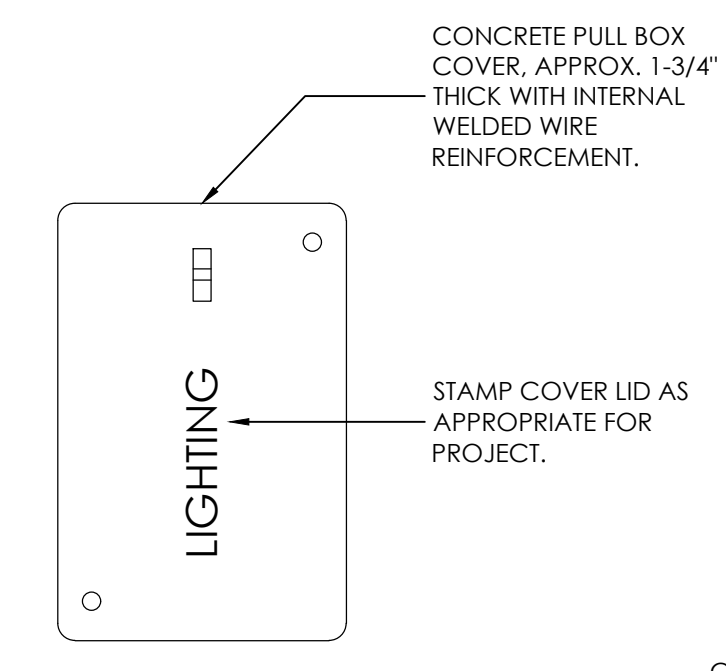
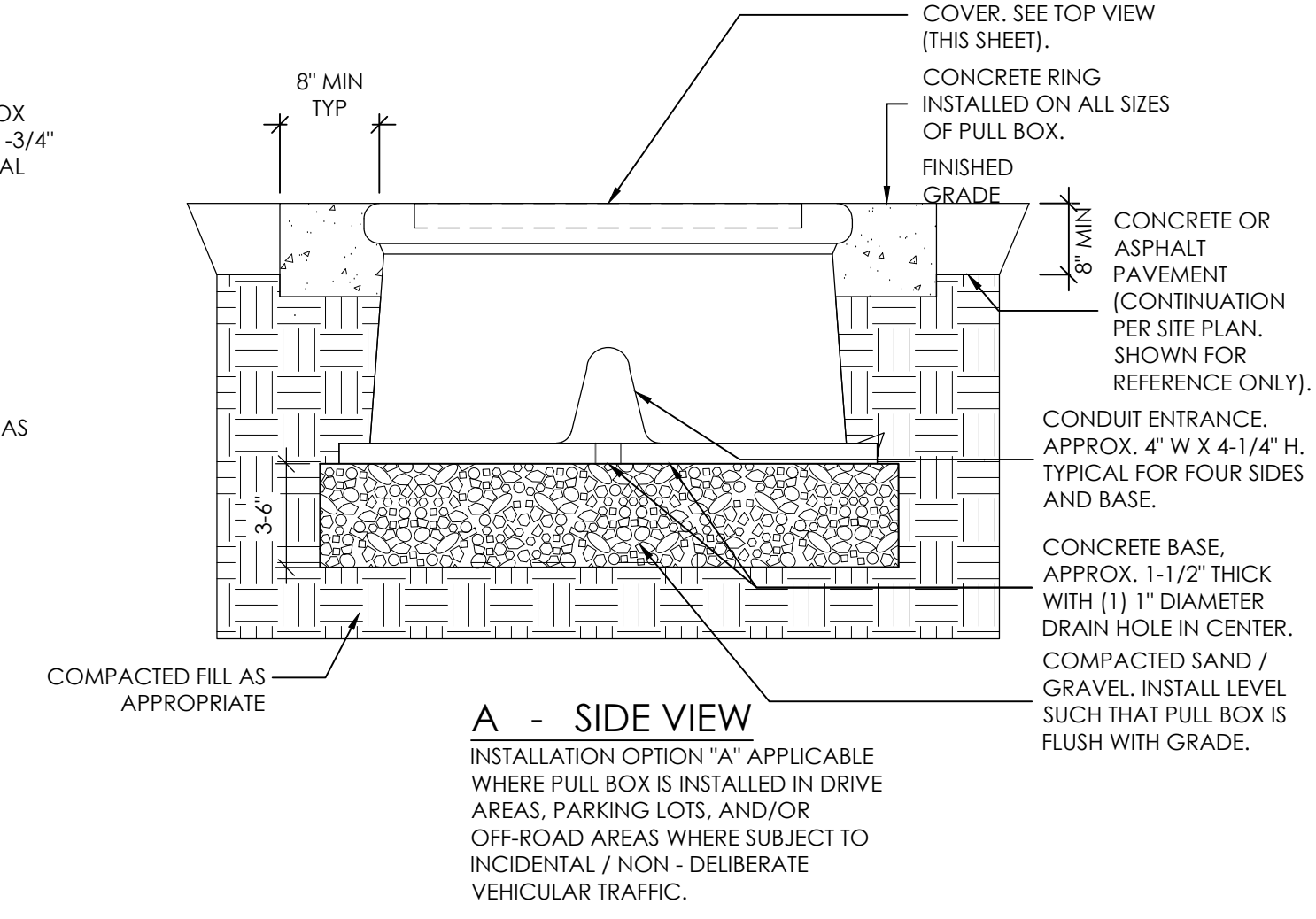
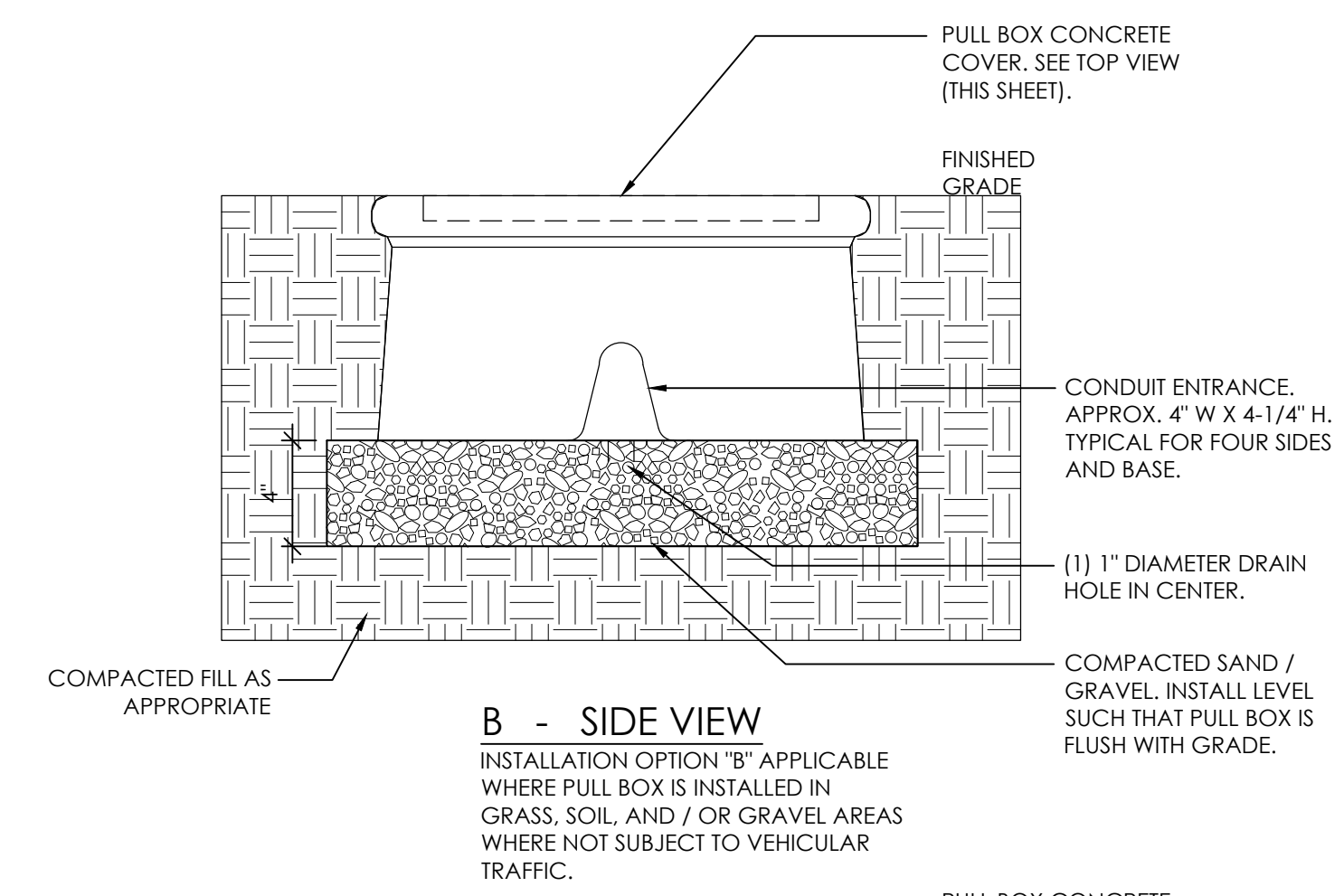
3 TYPICAL UNDERGROUND CONDUIT TRANSITION TO ABOVE GRADE OR ABOVE SLAB
NOT TO SCALE



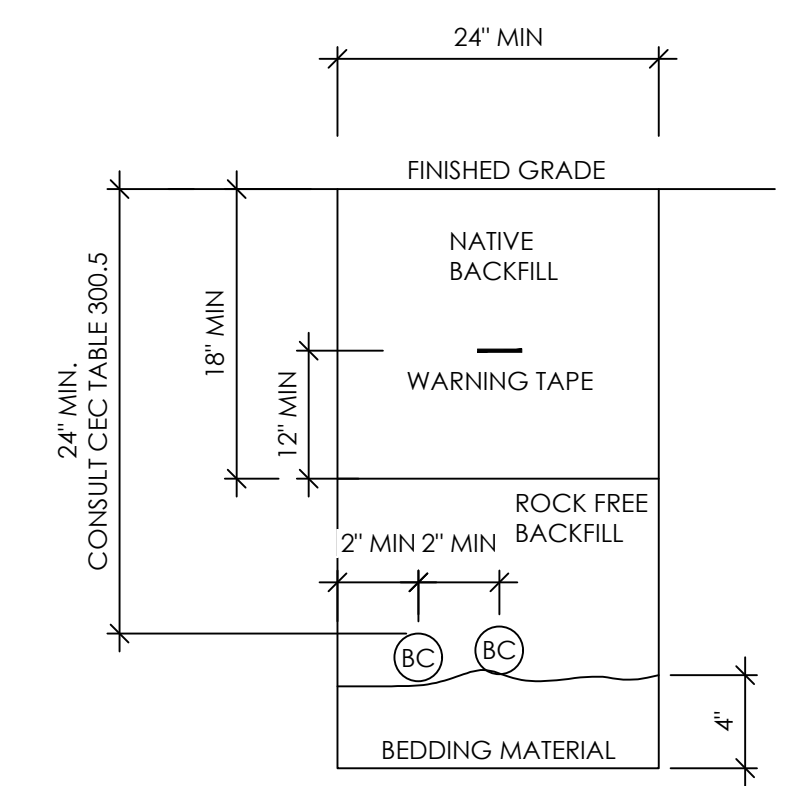
4 SERVICE EQUIPMENT PANEL MOUNTING
NOT TO SCALE



5 TYPICAL EQUIPOTENTIAL BONDING DETAIL
NOT TO SCALE



1 TYPICAL PULL BOX DETAIL
NOT TO SCALE
NOTE: CONTRACTOR SHALL APPLY BOX STYLE DEFINED PER EITHER "A" OR "B" AS APPLICABLE FOR PULL BOX LOCATION.



- CONDUIT LEGEND
- "BC" LINE VOLTAGE BRANCH CIRCUIT (I.E. POWER / LIGHTING)
- GENERAL NOTES:
1. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING PG&E UNDERGROUND SERVICE ALERT (USA) PRIOR TO DIGGING/EXCAVATING TO LOCATE EXISTING UTILITIES IN PROXIMITY.
 2. CONSULT CEC TABLE 300.5 FOR MINIMUM COVER REQUIREMENTS WHERE INSTALLATION, SPECIFICALLY WHERE CONDUITS IS INSTALLED UNDER STREETS, ROADWAYS, DRIVEWAYS AND PARKING AREAS.

2 TYPICAL BRANCH CIRCUIT TRENCH DETAIL
NOT TO SCALE

WALLACE GROUP®

CIVIL AND TRANSPORTATION ENGINEERING
CONSTRUCTION MANAGEMENT
LANDSCAPE ARCHITECTURE
MECHANICAL ENGINEERING
PLANNING
PUBLIC WORKS ADMINISTRATION
SURVEYING / GIS SOLUTIONS
WATER RESOURCES

612 CLARION COURT
SAN LUIS OBISPO, CA 93401
T 805 544-4011 F 805 544-4294
www.wallacegroup.us

KERN COUNTY CALIFORNIA

COUNTY OF KERN
GENERAL SERVICES
DIVISION
OF THE
COUNTY ADMINISTRATIVE OFFICE
1115 TRUXTUN AVENUE
BAKERSFIELD, CALIFORNIA

PROJECT

HART PARK
PROP 68
IMPROVEMENTS
LEVEE & LAKE ROAD
BAKERSFIELD, CA
93308

APPROVED BY: COUNTY BOARD OF SUPERVISORS	
CHAIRMAN, BOARD OF SUPERVISORS	DATE
RECOMMENDED FOR APPROVAL DEPARTMENT	
DIRECTOR	DATE
RECOMMENDED FOR APPROVAL GENERAL SERVICES DIVISION	
CHIEF, GENERAL SERVICES OFFICER	DATE

THESE DRAWINGS, SPECIFICATIONS, DESIGN IDEAS AND ARRANGEMENTS ARE, AND SHALL REMAIN, THE PROPERTY OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. NO PART THEREOF SHALL BE COPIED, ELECTRONICALLY MODIFIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE EXPRESS WRITTEN PERMISSION OF THE CONSTRUCTION SERVICES DIVISION, COUNTY OF KERN. VISUAL CONTACT WITH THESE DRAWINGS OR SPECIFICATIONS SHALL CONSTITUTE CONCLUSIVE EVIDENCE OF ACCEPTANCE OF THESE RESTRICTIONS. USE OF THESE DOCUMENTS FOR THE DEVELOPMENT OF ADDITIONAL AS-BUILTS, CLARIFICATIONS OR EQUIPMENT AND MATERIAL LAYOUTS SHALL REMAIN THE SOLE RESPONSIBILITY OF THE CONTRACTOR AND CONSTRUCTION SERVICES ACCEPTS NO RESPONSIBILITY FOR ANY INACCURACIES FOUND IN THE DEVELOPMENT OF THESE INSTRUMENTS OF SERVICE.

CONSULTANT STAMP

REGISTERED PROFESSIONAL ENGINEER
ELECTRICAL
STATE OF CALIFORNIA
NO. E18927
EXPIRES: 12/31/2024
GECE #2219

DATE	REV	DESCRIPTION
05/02/24	1	PERMIT SET
10/04/24	2	PERMIT SET
12/16/24	3	AMENDMENT 1

DATE: 12/04/2023	SHEET NO.
DESIGNED BY: HG	E-3.0
DRAWN BY: MC	
CHECKED BY: HG	
JOB NO. 1650.7014-21	DRAWING FILE 20MM010
HART PARK PROP 68 IMPROVEMENTS ELECTRICAL DETAILS	

GECE

GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP

2529 PROFESSIONAL PKWY
SUITE A - P.O. BOX #348
SANTA MARIA, CA 93455

P 805-361-0525
E INFO@GECECORP.COM
WWW.GECECORP.COM

DRAWINGS, SPECIFICATIONS, AND OTHER DOCUMENTS, INCLUDING THOSE IN ELECTRONIC FORM, PREPARED BY GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP ARE THE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT UNLESS OTHERWISE AUTHORIZED IN WRITING. GRAY ELECTRICAL CONSULTING + ENGINEERING, CORP SHALL BE DEEMED THE AUTHOR AND OWNER OF THE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.