

ELECTRICAL DRAWING INDEX	
DRAWING NUMBER	DESCRIPTION
E01	ELECT. DWG. INDEX, SYMBOL LEGEND, EQUIP. LIST & GEN. NOTES
E02	SITE LIGHTING AND POWER PLAN
E03	OFFICE/MAINT. SHOP LIGHTING, POWER AND GROUNDING PLAN
E04	PICKUP STATION, LIGHTING, POWER AND GROUNDING PLAN
E10	SITE ELECTRICAL DISTRIBUTION DIAGRAM
E11	DISTRIBUTION AND POWER PANEL SCHEDULES
E15	NAMEPLATE SCHEDULE
E16	MISCELLANEOUS DETAILS
E17	MISCELLANEOUS DETAILS
E18	MISCELLANEOUS DETAILS
E19	MISCELLANEOUS DETAILS

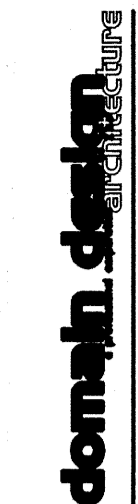
ELECTRICAL SYMBOL LEGEND			
	RECESSED FLUORESCENT FIXTURE, 2'x4', 2-32W T8 LAMPS, 120V, T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #2GT8 2 32 A12 120 GEB10IS		EXHAUST FAN, 120VAC (BY OTHERS)
	RECESSED FLUORESCENT FIXTURE, 2'x4', 4-32W T8 LAMPS, 120V, T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #2GT8 4 32 A12 120 GEB10IS		TOGGLE SWITCH, SINGLE POLE, 20A, 120V HUBBELL CAT. #CS1221W WALL PLATE AS REQUIRED
	RECESSED FLUORESCENT, FIXTURE, 2'x4', 3-32W T8 LAMPS, 120V, T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #2GT8 3 32 A12 120 GEB10IS EL		TOGGLE SWITCH, THREE WAY, 20A, 120V HUBBELL CAT. #CS1223W WALL PLATE AS REQUIRED
	SURFACE MOUNT FLUORESCENT FIXTURE, 2'x4', 3-32W T8 LAMPS, 120V, T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #2M 3 32 A12 120 GEB10IS EL		TOGGLE SWITCH, DOUBLE POLE, 20A, 120V HUBBELL CAT. #CS1222W WALL PLATE AS REQUIRED
	EMERGENCY LIGHT UNIT, 2-9W, 6 VOLT KRYPTON LAMPS, NICKEL CADMIUM BATTERY, SELF DIAGNOSTICS, LITHONIA CAT. #ELM618 SD N		DUPLEX RECEPTACLE, 20A, 2 POLE, 3 WIRE GROUNDING, WHITE, HUBBELL CAT. #CR20WHI WALL PLATE AS REQUIRED
	EMERGENCY EXIT SIGN, LED LAMPS, NICKEL CADMIUM BATTERY WITH SELF DIAGNOSTICS LITHONIA CAT. #LOM S W 1 R 120/277 EL N SD		GROUND FAULT DUPLEX RECEPTACLE, 20A, 2 POLE, 3 WIRE GROUNDING, WALL PLATE INCLUDED, HUBBELL CAT. #GFR5352WA
	OUTDOOR WALL MOUNTED FIXTURE, QUARTER SPHERE, 175W METAL HALIDE, WIDE THROW LIGHT DISTRIBUTION, 120V LITHONIA CAT. #WSO 175M WT 120 PE DDBT		MOTION ACTIVATED SECURITY LIGHTING, 2-150W PAR38 LAMPS, 120V, COVERAGE ZONE OF 270°, DETECTION RANGE UP TO 100' LITHONIA CAT. #MSP270 FK 1 L/LP
	COVERED OUTDOOR SURFACE MOUNTED FIXTURE, 400W METAL HALIDE, EMERGENCY CIRCUIT, 120V LITHONIA CAT. #KACM 400M DPA 120 LP1 TC SCWA DDB		WELDING RECEPTACLE, 60A PIN AND SLEEVE RECEPTACLE WITH MOUNTING BOX, 2W, 2P APPLINGTON CAT. #AEA6313 (CLAMPING RING PLUG, APPLINGTON CAT. # AEP6352)
	WALL MOUNTED FIXTURE, FLUORESCENT, 7-1/2' x 24-1/2', 2-20W LAMPS, 120V T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #WP 2 20 MVOLT GEB10IS DO		COMBINATION COMPUTER/TELEPHONE OUTLET
	CAST WALL PACK, 100W METAL HALIDE 120V, PHOTOELECTRIC CONTROL LITHONIA CAT. #TWP 100M 120 SF QRS PE LP1 DMB		EXHAUST FAN SWITCH, NEMA 1 TOGGLE SHIPPED WITH FAN UNIT "F-1"
	AREA LIGHTING FIXTURE, 400W METAL HALIDE, 240V, LITHONIA CAT. #KVS3 400M R5 240 RP12 LP1 PER SWCA PE1, MOUNT ON 5'x30' ROUND STRAIGHT POLE, LITHONIA CAT. #RSS 30 5B DM19 DDB		HVAC UNIT THERMOSTAT VENDOR SUPPLIED AND INSTALLED
	FLUORESCENT FIXTURE, 7" W x 50" LONG, STEM HUNG, 3-32W T8 LAMPS, 120V, T8 ELECTRONIC BALLAST INSTANT START LITHONIA CAT. #DM 3 32 120 GEB10IS WLF		OVERHEAD DOOR OPENER MOTOR VENDOR SUPPLIED AND INSTALLED

ELECTRICAL EQUIPMENT LIST	
①	DISTRIBUTION PANEL "DP-1" 600V, 3 PHASE, 3 WIRE 400A COPPER MAIN BUS 18KAIC STANDARD BOLTED AL GROUND BAR 24 CIRCUIT SPACE BREAKERS: 400A KDC 3P MAIN BREAKER 1-100A 3P FD BRANCH BREAKER 2-40A 3P FD BRANCH BREAKER 1-60A 3P FD BRANCH BREAKER TYPE 3R ENCLOSURE, CUTLER HAMMER CAT. #LWPQ2060
②	25KVA TRANSFORMER 1 PHASE, GENERAL PURPOSE, NON-VENTILATED 240x480 PRIMARY VOLTS, 120x240 SECONDARY VOLTS 150°C TEMPERATURE RISE, ALUMINUM WINDING MATERIAL NEMA 3R ENCLOSURE 60HZ TAPS: 10+5%, 20-5% X 20+2.5%, 40-2.5% CUTLER HAMMER CAT. #T20P11S25NV
③	POWER PANEL "PP-1" 120/240, 1 PHASE, 3 WIRE 100A COPPER MAIN BUS 10KAIC STANDARD BOLTED AL GROUND BAR 38 CIRCUIT SPACE BREAKERS: 1-100A, 2 POLE BAB MAIN BREAKER 24-20A, 1 POLE BAB BRANCH BREAKERS 14-1 POLE BRANCH PROVISIONS TYPE 3R ENCLOSURE, CUTLER HAMMER CAT. #LWPQ2036
④	100A FRAME DISCONNECT SWITCH 600VAC, HEAVY DUTY, NON-FUSIBLE, SINGLE THROW 100AMP NEMA 3R ENCLOSURE CUTLER HAMMER CAT. #DH363URK
⑤	37.5KVA TRANSFORMER 1 PHASE, GENERAL PURPOSE, VENTED 240x480 PRIMARY VOLTS, 120x240 SECONDARY VOLTS 150°C TEMPERATURE RISE, ALUMINUM WINDING MATERIAL NEMA 2 ENCLOSURE 60HZ TAPS: 10+5%, 20-5% X 20+2.5%, 40-2.5% CUTLER HAMMER CAT. #T20P11S37EE
⑥	POWER PANEL "PP-2" 120/240, 1 PHASE, 3 WIRE 200A COPPER MAIN BUS 10KAIC STANDARD BOLTED AL GROUND BAR 42 CIRCUIT SPACE BREAKERS: 1-200A, ED MAIN BREAKER 1-50A, 2 POLE BAB BRANCH BREAKER 1-40A, 2 POLE BAB BRANCH BREAKER 26-20A, 1 POLE BAB BRANCH BREAKERS 3-60A, 2 POLE BAB BRANCH BREAKER 3-70A, 2 POLE BAB BRANCH BREAKER TYPE 12 ENCLOSURE, CUTLER HAMMER CAT. #LWPQ2048
⑦⑩	60A DISCONNECT 600VAC, HEAVY DUTY, NON-FUSIBLE, SINGLE THROW 60AMP NEMA 3R ENCLOSURE CUTLER HAMMER CAT. #DH362URK
⑧⑪	15KVA TRANSFORMER 1 PHASE, GENERAL PURPOSE, NON-VENTILATED 240x480 PRIMARY VOLTS, 120x240 SECONDARY VOLTS 150°C TEMPERATURE RISE, ALUMINUM WINDING MATERIAL NEMA 3R ENCLOSURE 60HZ TAPS: 10+5%, 20-5% X 20+2.5%, 40-2.5% CUTLER HAMMER CAT. #T20P11S15NV
⑨⑫	POWER PANEL "PP-3" & "PP-4" 120/240, 1 PHASE, 3 WIRE 100A COPPER MAIN BUS 10KAIC STANDARD BOLTED AL GROUND BAR 26 CIRCUIT SPACE BREAKERS: 1-100A, 2 POLE BAB MAIN BREAKER 10-20A, 1 POLE BAB BRANCH BREAKERS 1-60A, 2 POLE BAB BRANCH BREAKER 14-1 POLE BAB BRANCH PROVISIONS TYPE 3R ENCLOSURE, CUTLER HAMMER CAT. #LWPQ2036
⑬	METER PAN WITH LINE SIDE DISCONNECT 400A, 30, 4 WIRE, 7 TERMINAL, 600VAC RINGLESS, OVERHEAD, 10,000 AIC COLD SEQUENCE METER PAN MILBANK CAT. #U5796-X-400-CB-BL

GENERAL NOTES

- ALL ELECTRICAL EQUIPMENT AND INSTALLATIONS SHALL COMPLY WITH THE LATEST PUBLISHED EDITION OF THE NATIONAL ELECTRICAL CODE.
- ALL MATERIALS SHALL CONFORM TO THE LATEST ISSUE OF ALL APPLICABLE STANDARDS AS ESTABLISHED BY NEMA, ANSI, IEEE, NFPA AND UL.
- MATERIALS SHALL BE AS SPECIFIED ON DRAWINGS. ON ANY PROPOSED SUBSTITUTION OF A SPECIFIED ITEM, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE PROOF TO THE OWNER THAT THE PROPOSED SUBSTITUTION IS EQUAL TO THE SPECIFIED ITEM BY MAKING A WRITTEN COMPARISON. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY MODIFICATIONS TO THE FACILITIES AS A RESULT OF THE SUBSTITUTION.
- THE OMISSION OF ANY MISCELLANEOUS ELECTRICAL ITEM OR ACCESSORY NOT SPECIFICALLY CALLED OUT FOR, BUT NECESSARY TO ENSURE THAT THE ELECTRICAL SYSTEM IS SAFE, COMPLETE, OPERABLE AND IN COMPLIANCE WITH ALL APPLICABLE CODES SHALL NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR FURNISHING AND INSTALLING THESE ITEMS.
- ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE HANDLED AND STORED WITH CARE TO PREVENT MECHANICAL AND MOISTURE DAMAGE.
- LIGHT FIXTURES SHALL BE LOCATED AS SHOWN ON DRAWINGS. CONTRACTOR SHALL CHECK THE LOCATIONS INDICATED FOR INTERFERENCE WITH STRUCTURAL STEEL OR MECHANICAL EQUIPMENT PRIOR TO INSTALLATION.
- MINIMUM WIRE SIZE FOR LIGHTING AND RECEPTACLE CIRCUITS SHALL BE #12 AWG, TYPE THWN, 600V INSULATION.
- ALL WORK PERFORMED INSIDE POWER PANELS SHALL BE NEAT AND INTERIOR LEFT IN AN ORDERLY MANNER.
- POWER PANELS SHALL HAVE TYPED PANEL SCHEDULES INDICATING THE CIRCUITS USED.
- ALL INSTALLATIONS SHALL BE DONE IN A NEAT AND WORKMANLIKE MANNER.
- BEFORE ELECTRICAL FACILITIES ARE PLACED IN OPERATION, CONTRACTOR SHALL CONDUCT APPROPRIATE TESTING TO VERIFY THAT ALL EQUIPMENT, DEVICES AND WIRING HAS BEEN CORRECTLY INSTALLED, AND IS IN SATISFACTORY WORKING CONDITION FOR PROPER OPERATION.
- CONTRACTOR TO FURNISH AND INSTALL NAMEPLATES ON ALL ELECTRICAL EQUIPMENT AS SPECIFIED ON DWG. E15.
- DIRECT BURIAL CABLES TO BE A MINIMUM OF 24" BELOW GRADE. DIRECT BURIAL CABLES SHALL HAVE THEIR LOCATION IDENTIFIED BY AN APPROVED WARNING RIBBON PLACED IN THE TRENCH AT LEAST 12" ABOVE THE UNDERGROUND INSTALLATION.
- FOR SITE ELECTRICAL DISTRIBUTION DIAGRAM SEE DWG. E10.

DESIGN CONSULTANT



GRSA-SIGMA CONSULTANTS AND ENGINEERS

ELECT. DWG. INDEX, SYMBOL LEGEND, EQUIP. LIST & GEN. NOTES

IESI WASTE

TRANSFER STATION

COVINGTON LA 70435 HWY 25

ISSUED FOR CONSTRUCTION MAY, 2008

THESE DRAWINGS ARE THE PROPERTY OF CHRIS L. KAFKALIDES ARCHITECTURE AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART. THEY ARE ONLY TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN. SEALER STATED HEREON ARE VALID ON THE ORIGINAL DRAWINGS ONLY. CONTRACTOR SHALL CAREFULLY REVIEW ALL CONDITIONS AND CONDITIONS SHOWN AND REPORT TO THE ARCHITECT ANY ERRORS, DISCREPANCIES, OR OMISSIONS DISCOVERED. THESE PLANS WERE PREPARED IN THIS OFFICE UNDER OUR PERSONAL SUPERVISION, AND TO THE BEST OF OUR KNOWLEDGE COMPLY WITH STATE AND LOCAL CODES. WE WILL GENERALLY ADMINISTER CONSTRUCTION.



PROJ. #	REVISIONS
007-0033	

DATE
MAY, 2008
SHEET

E01

THESE DRAWINGS ARE THE PROPERTY OF DOMINIK DESIGN ARCHITECTURE AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART. THEY ARE ONLY TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN.

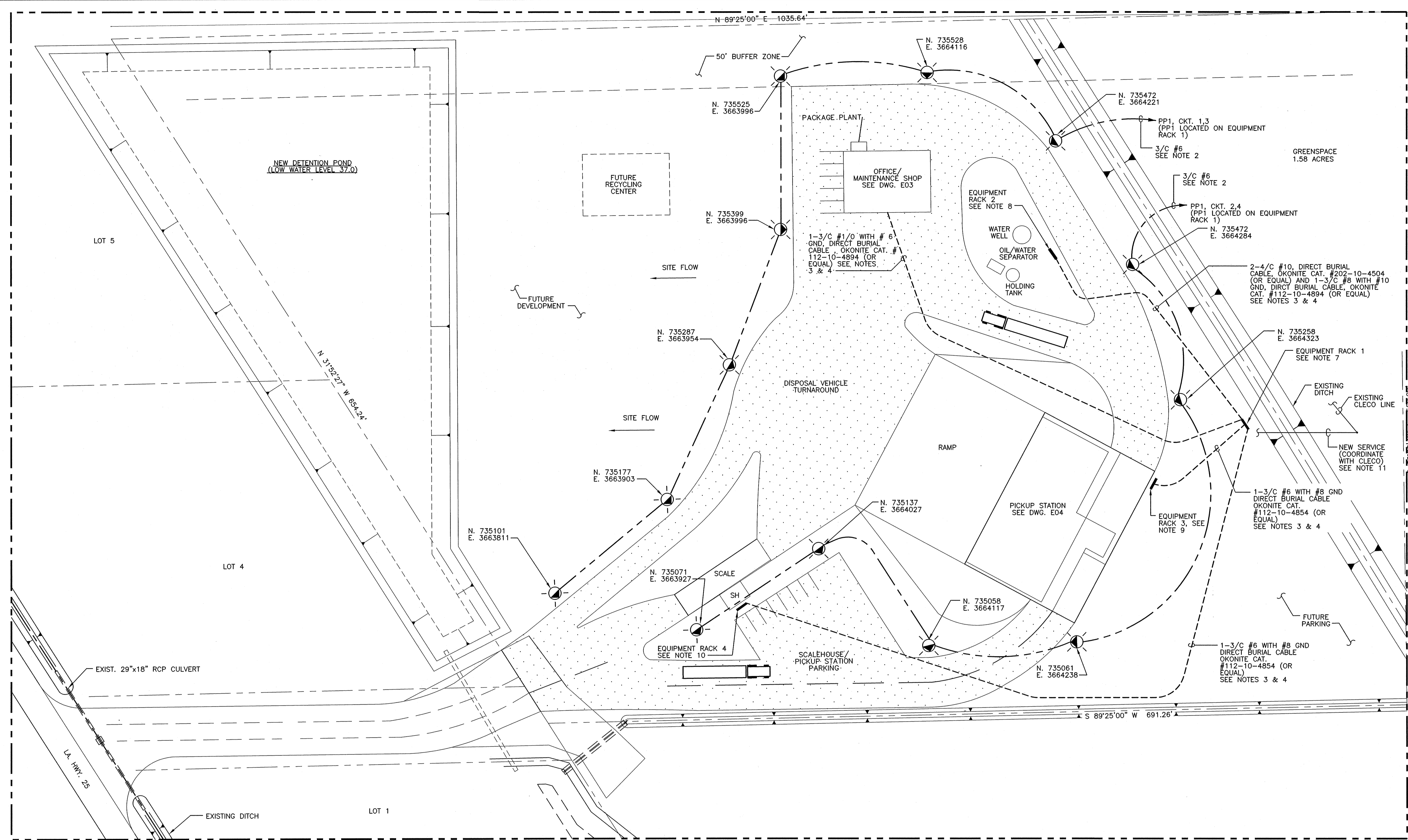
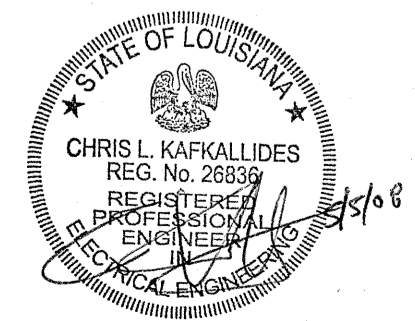
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PROJ. #	REVISIONS
007-0003	

DATE
 MAY, 2008

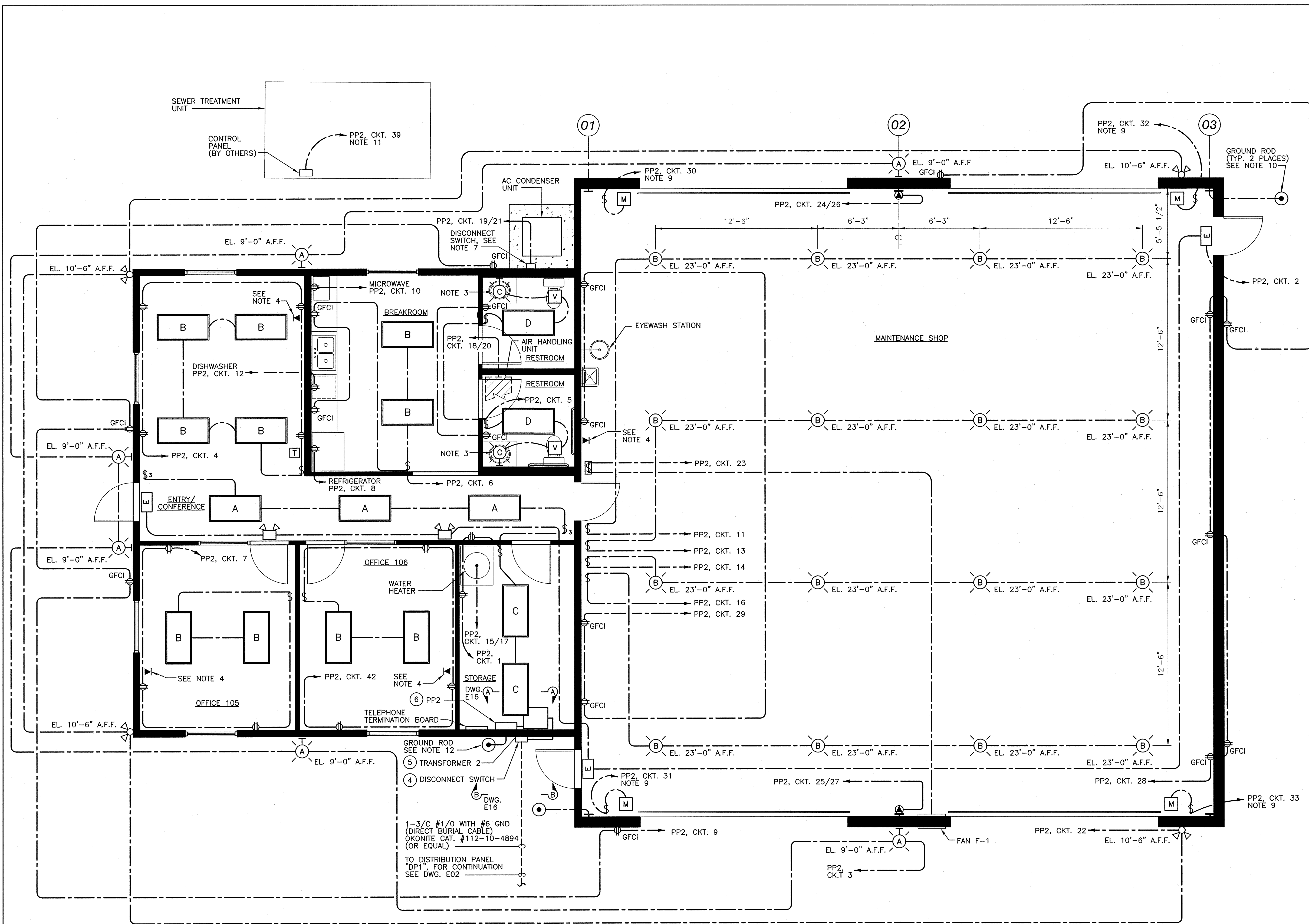
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E02



SITE LIGHTING AND POWER PLAN
 SCALE: 1"=40'-0"

- NOTES**
- FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND, SEE DWG. E01.
 - ROUTE 3/C #6 (OKONITE CAT. #112-10-4852 OR EQUAL) FROM PP1 UNDERGROUND TO CONDUIT STUB-UP INSIDE POLE BASE. SEE DETAIL 3, DWG. E16
 - DIRECT BURIAL CABLES TO BE A MINIMUM OF 24" BELOW GRADE. DIRECT BURIAL CABLES SHALL HAVE THEIR LOCATION IDENTIFIED BY AN APPROVED WARNING RIBBON PLACED IN THE TRENCH AT LEAST 12" ABOVE THE UNDERGROUND INSTALLATION.
 - UNDERGROUND CONDUCTORS ROUTED BELOW ROADWAYS SHALL BE ENCASED IN RED CONCRETE. SEE DETAIL 4, DWG. E16.
 - FOR POWER PANEL "PP1" PANEL SCHEDULE, SEE DWG. E11.
 - COORDINATES GIVEN ARE FOR CENTER OF POLE LOCATION. ARROW IN SYMBOL INDICATES MOUNTING ORIENTATION OF FIXTURE ON POLE.
 - CONTRACTOR TO FABRICATE AND INSTALL EQUIPMENT RACK 1. SEE DETAIL 5, DWG. E17. EXACT LOCATION OF EQUIPMENT RACK TO BE DETERMINED IN FIELD. LOCATION TO BE COORDINATED WITH CLECO POWER COMPANY, LLC AND THE INSTALLATION OF THE NEW ELECTRICAL SERVICE TO EQUIPMENT RACK 1.

- NOTES CONTINUED**
- CONTRACTOR TO FABRICATE AND INSTALL EQUIPMENT RACK 2 FOR WATER WELL AND OIL WATER SEPARATOR AREA. SEE DETAIL 7, DWG. E18. EXACT LOCATION TO BE DETERMINED IN FIELD.
 - CONTRACTOR TO FABRICATE AND INSTALL EQUIPMENT RACK 3. SEE DETAIL 6, DWG. E17. EXACT LOCATION TO BE DETERMINED IN FIELD.
 - CONTRACTOR TO FABRICATE AND INSTALL EQUIPMENT RACK 4 FOR SCALEHOUSE. SEE DETAIL 8, DWG. E18. EXACT LOCATION TO BE DETERMINED IN FIELD.
 - FOR SITE ELECTRICAL DISTRIBUTION DIAGRAM SEE DWG. E10.



NOTES

- FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
- MOUNTING HEIGHTS: THE BELOW MOUNTING HEIGHTS MAY BE CHANGED TO SUIT JOB CONDITIONS PROVIDING THE CHANGES ARE APPROVED BY THE OWNER PRIOR TO INSTALLATION. IF NOT OTHERWISE INDICATED ON DRAWINGS, MOUNTING HEIGHTS TO CENTERLINE OF OUTLET SHALL BE AS FOLLOWS:
 COUNTERS - 18" ABOVE FINISHED FLOOR OR 9" ABOVE COUNTERS
 PANELBOARDS - NOT MORE THAN 4'-6" FROM PANEL CENTERLINE TO FLOOR
 TOGGLE SWITCHES - 4'-6" ABOVE FINISHED FLOOR
 TELEPHONE AND COMPUTER OUTLETS - 18" ABOVE FINISHED FLOOR
 THERMOSTATS - 5'-0" ABOVE FINISHED FLOOR
 EXIT LIGHTS - 7'-6" ABOVE FINISHED FLOOR
 EMERGENCY LIGHTS - 7'-6" ABOVE FINISHED FLOOR
 REFRIGERATOR RECEPTACLE - 4'-0" ABOVE FINISHED FLOOR
 MICROWAVE RECEPTACLE - 2'-0" ABOVE COUNTER
- BOTTOM OF RESTROOM FIXTURE OVER LAVATORY TO BE MOUNTED 6'-6" ABOVE FINISHED FLOOR.
- PROVIDE 1" CONDUIT WITH PULL WIRE FROM EACH TELEPHONE/COMPUTER OUTLET TO CEILING AREA ABOVE OFFICE COMPLEX. TELEPHONE SERVICE BY OTHERS. CONTRACTOR TO COORDINATE WITH OWNER THE INSTALLATION OF ANY ADDITIONAL TELEPHONE/COMPUTER OUTLETS.
- ALL RECEPTACLES IN MAINTENANCE SHOP AND ON EXTERIOR OF BUILDING TO BE INSTALLED WITH WEATHERPROOF COVERS.
- ALL CIRCUIT WIRING IN MAINTENANCE SHOP TO BE ROUTED IN R.G.S. CONDUIT.
- FUSED DISCONNECT SWITCH, 60A, METALLIC/GALVANIZED STEEL ENCLOSURE, NEMA 3R, CUTLER-HAMMER CAT. #DPF222R. CONTRACTOR TO SIZE FUSE PER FLA ON NAMEPLATE OF CONDENSER UNIT (FAN AND COMPRESSOR).
- NUMBER IN CIRCLE ① INDICATES ITEM ON ELECTRICAL EQUIPMENT LIST. SEE LIST ON DWG. E01.
- ROUTE 1" FROM POWER PANEL PP2 TO SWITCH BOX FOR OVERHEAD DOOR OPENER. BREAKER, WIRE SIZE AND SWITCH RATING TO BE VERIFIED UPON SELECTION AND INSTALLATION OF DOOR/MOTOR.
- INSTALL 3/4" x 10'-0" LONG GROUND ROD. CONNECT TO BUILDING COLUMN USING #2 GREEN INSULATED STRANDED WIRE WITH BURNDY GROUND CONNECTORS OR APPROVED EQUAL.
- USE PP2, CKT. 39 FOR SEWER TREATMENT UNIT (BY OTHERS)
- INSTALL 3/4" x 10'-0" LONG GROUND ROD. ROUTE #2 GREEN INSULATED STRANDED WIRE FROM POWER PANEL TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.
- CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. FIELD SHALL DETERMINE EXACT ROUTING AND METHOD OF SUPPORT. CONDUIT INSTALLED INSIDE THE BUILDING SHALL BE AT THE HIGHEST ELEVATION POSSIBLE.
- ROUTE EMT CONDUIT FROM PANEL TO CEILING SPACE FOR ALL FUTURE CIRCUITS.



OFFICE/MAINTENANCE SHOP LIGHTING, POWER AND GROUNDING PLAN
 SCALE: 1/4"=1'-0"

DESIGN CONSULTANT
dominick shanklin
 ARCHITECTURE

GRSA-SIGMA
 CONSULTANTS AND ENGINEERS

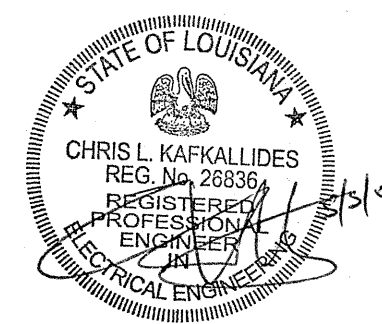
OFFICE/MAINT. SHOP LIGHTING, POWER AND GROUNDING PLAN
IESI WASTE TRANSFER STATION
 COVINGTON LA 70435
 HWY 25

ISSUED FOR CONSTRUCTION
 MAY, 2008

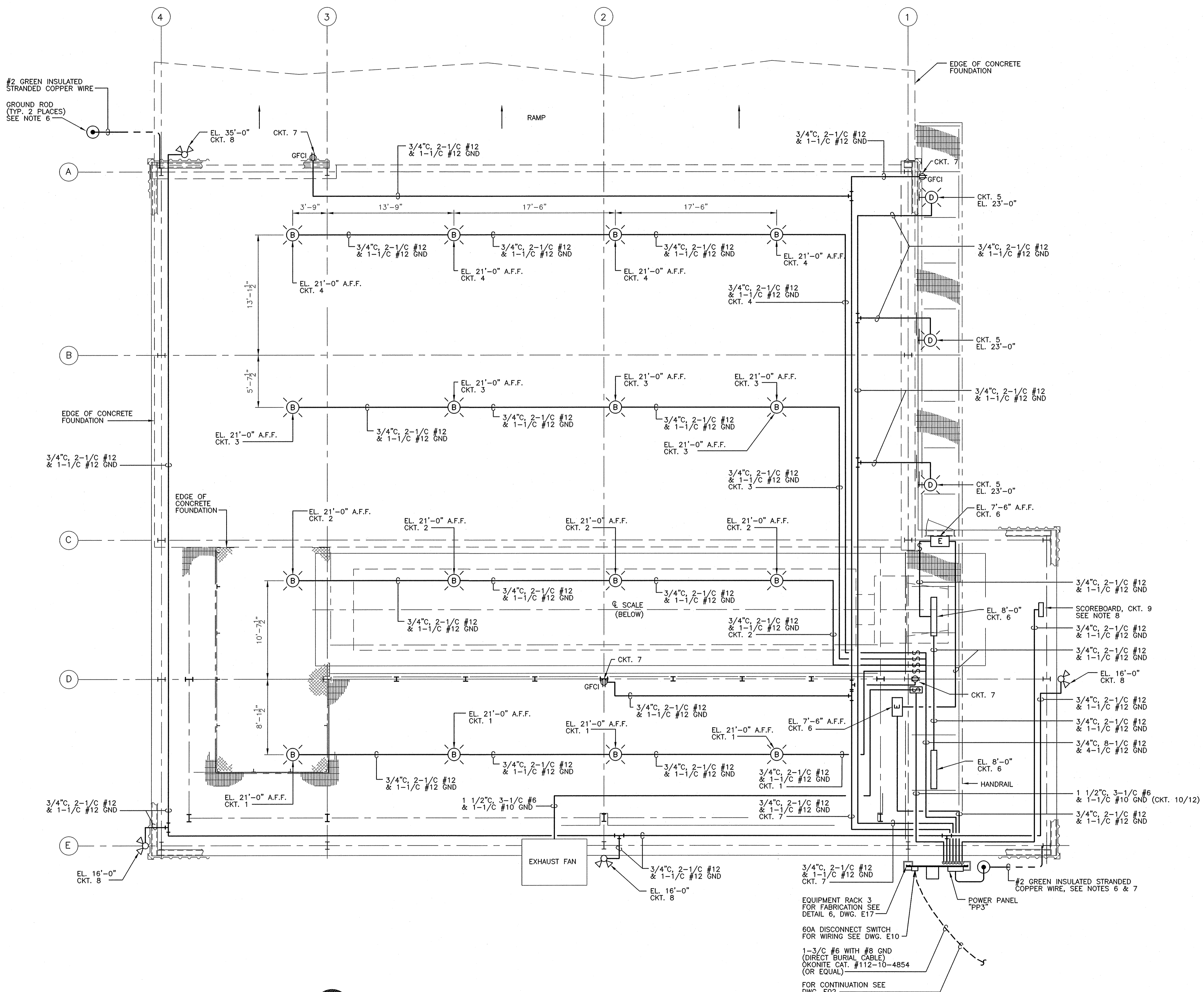
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 SCALE: THESE DRAWINGS ARE VALID ON THE ORIGINAL DRAWINGS ONLY. CONTRACTOR SHALL CAREFULLY REVIEW ALL DIMENSIONS AND CONDITIONS BEFORE AND REPORT TO THE ARCHITECT ANY ERRORS, INCOMPLETIONS, OR OMISSIONS DISCOVERED.
 THESE PLANS WERE PREPARED IN THIS OFFICE UNDER OUR PERSONAL SUPERVISION, AND TO THE BEST OF OUR KNOWLEDGE COMPLY WITH STATE AND LOCAL CODES. WE WILL GENERALLY ADMINISTER CONSTRUCTION.

PROJ. #	REVISIONS
007-0003	

DATE
 MAY, 2008
 SHEET



E03



NOTES

- FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
- MOUNTING HEIGHTS: THE BELOW MOUNTING HEIGHTS MAY BE CHANGED TO SUIT JOB CONDITIONS PROVIDING THE CHANGES ARE APPROVED BY THE OWNER PRIOR TO INSTALLATION. IF NOT OTHERWISE INDICATED ON DRAWINGS, MOUNTING HEIGHTS TO CENTERLINE OF OUTLET SHALL BE AS FOLLOWS:
 RECEPTACLES - 1'-6" ABOVE FINISHED FLOOR OR GRATING
 TOGGLE SWITCHES - 4'-6" ABOVE FINISHED FLOOR OR GRATING
 EXIT LIGHTS - 7'-6" ABOVE FINISHED FLOOR OR GRATING
- ALL RECEPTACLES TO BE INSTALLED WITH WEATHERPROOF COVERS.
- ALL CIRCUIT WIRING TO BE ROUTED IN R.G.S. CONDUIT.
- CONDUIT ROUTING IS SHOWN DIAGRAMMATICALLY. FIELD SHALL DETERMINE EXACT ROUTING AND METHOD OF SUPPORT. CONDUIT INSTALLED INSIDE THE BUILDING SHALL BE AT THE HIGHEST ELEVATION POSSIBLE.
- INSTALL 3/4"x10'-0" LONG COPPER GROUND ROD. CONNECT TO BUILDING COLUMN USING #2 GREEN INSULATED STRANDED WIRE WITH BURNDY GROUND CONNECTORS OR APPROVED EQUALS.
- ROUTE #2 GREEN INSULATED STRANDED WIRE FROM POWER PANEL "PP3" TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.
- SCOREBOARD FURNISHED AND INSTALLED BY SCALE VENDOR. ELECTRICAL CONTRACTOR TO ROUTE CONDUIT AND WIRE TO SCOREBOARD LOCATION.

PICKUP STATION LIGHTING, POWER AND GROUNDING PLAN
 SCALE: 3/16"=1'-0"



DESIGN CONSULTANT
domain design
 CONSULTANTS AND ENGINEERS

GRSA-SIGMA
 CONSULTANTS AND ENGINEERS

PICKUP STATION LIGHTING, POWER AND GROUNDING PLAN
IESI WASTE TRANSFER STATION
 HWY 25
 COVINGTON LA 70435

ISSUED FOR CONSTRUCTION
 MAY, 2008

THESE PLANS WERE PREPARED IN THIS OFFICE UNDER OUR PERSONAL SUPERVISION, AND TO THE BEST OF OUR KNOWLEDGE AND BELIEF THEY COMPLY WITH ALL CITY, STATE AND FEDERAL REQUIREMENTS, AND WITH ALL APPLICABLE CODES AND REGULATIONS. WE HEREBY CERTIFY THAT WE ARE A REGISTERED PROFESSIONAL ENGINEER IN THE STATE OF LOUISIANA.

NO.	REVISIONS

DATE
 MAY, 2008
 SHEET

E04

THESE DRAWINGS ARE THE PROPERTY OF DOMAIN DESIGN ARCHITECTURE AND ARE NOT TO BE REPRODUCED IN WHOLE OR IN PART. THEY ARE ONLY TO BE USED FOR THE PROJECT AND SITE SPECIFICALLY IDENTIFIED HEREIN.

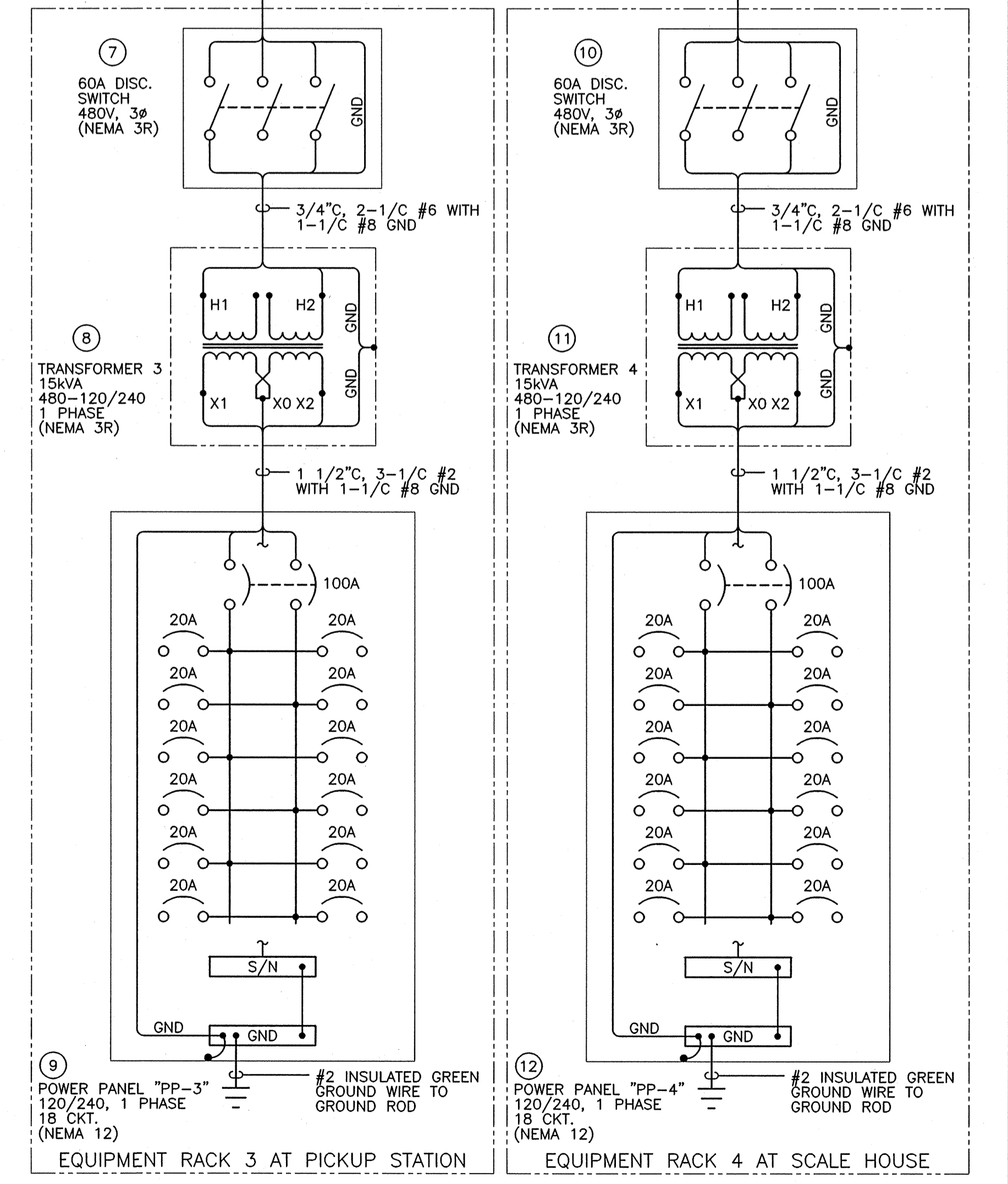
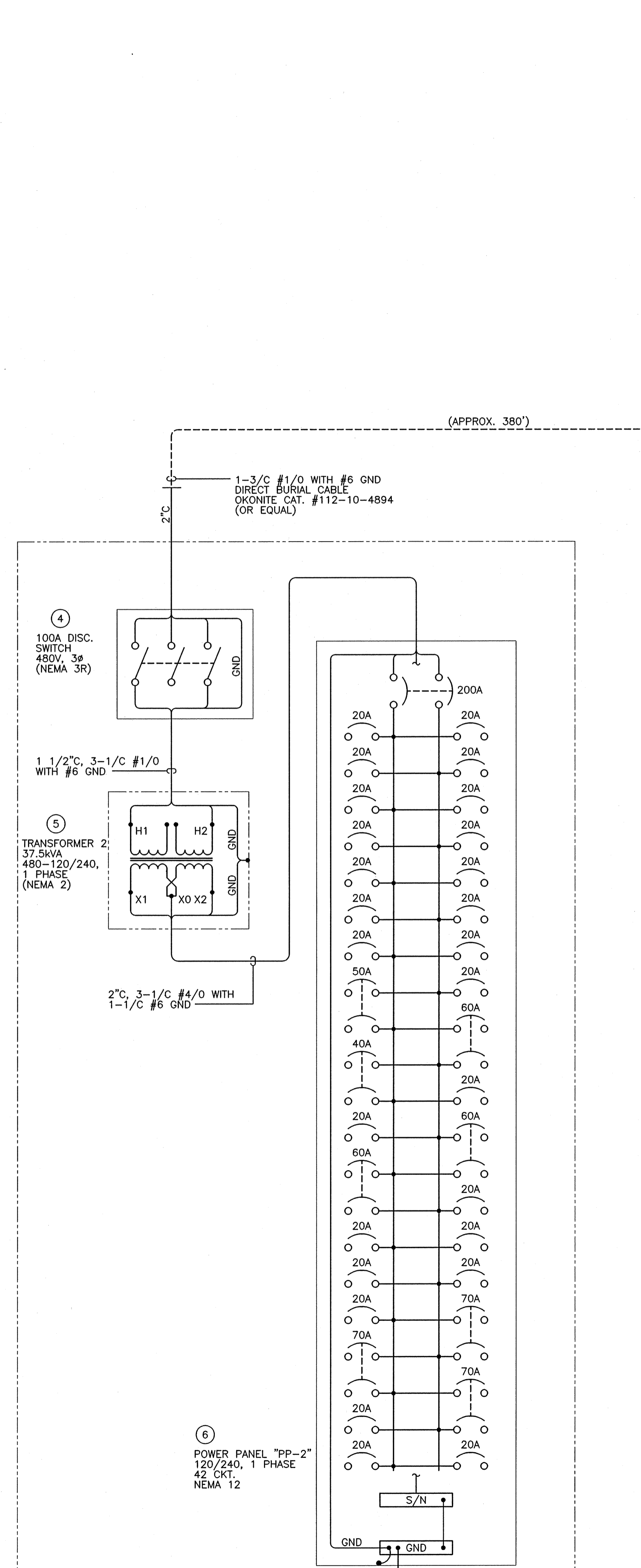
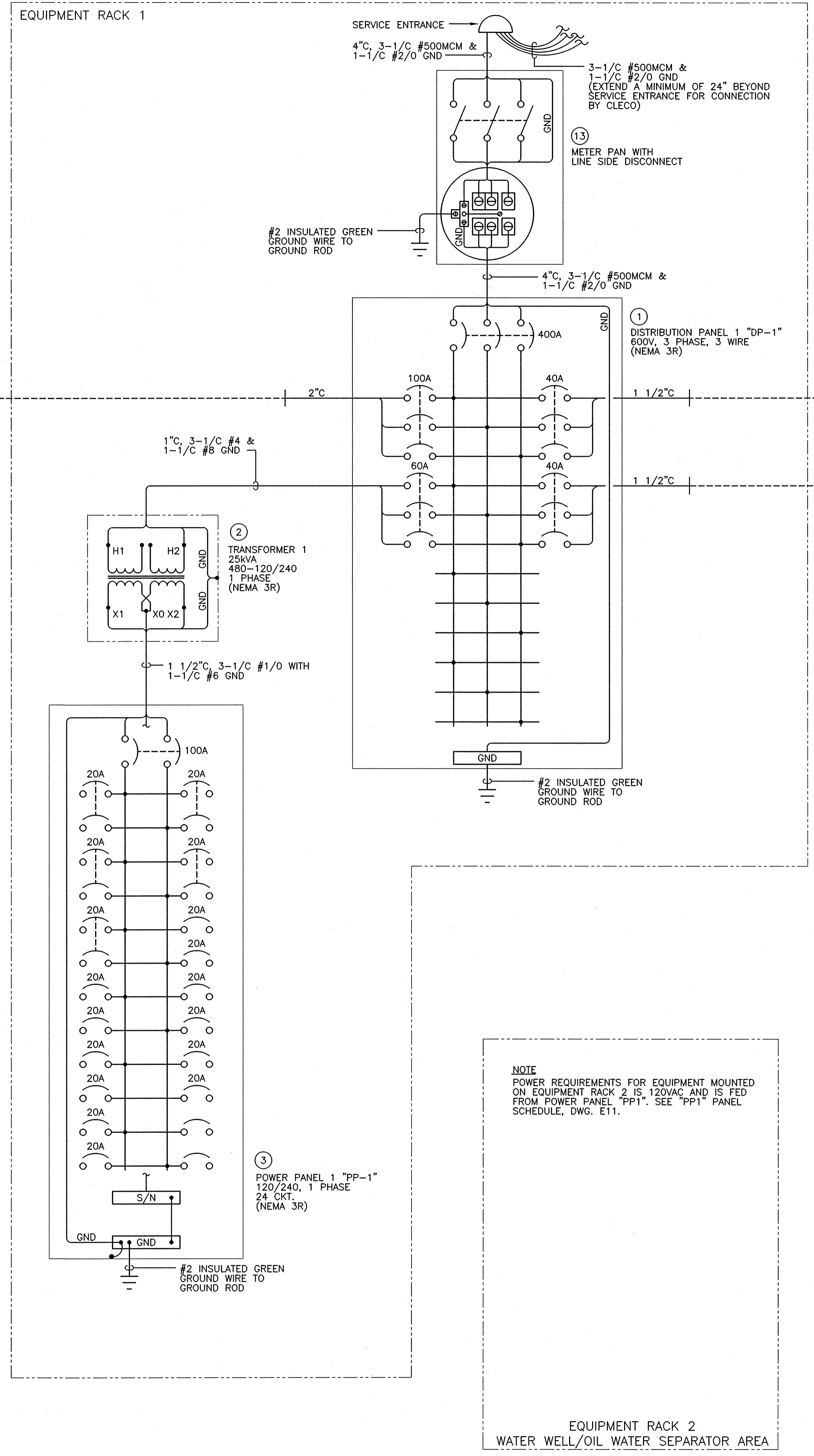
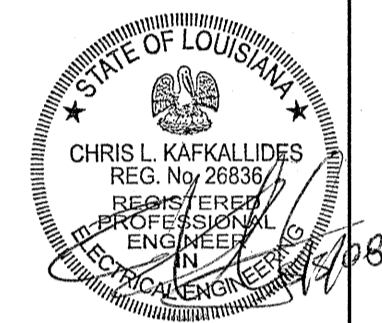
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THESE PLANS WERE PREPARED IN THIS OFFICE UNDER DUTY PERSONAL SUPERVISION, AND TO THE BEST OF OUR KNOWLEDGE, BELIEF AND FAITHFUL ADHERENCE TO THE PROFESSIONAL ETHICS AND STANDARDS OF THE ARCHITECTURAL AND ENGINEERING PROFESSIONS.

PROJ. #	REVISIONS
E10	

NOTES

- FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
- NUMBER IN CIRCLE ① INDICATES ITEM ON ELECTRICAL EQUIPMENT LIST. SEE DWG. E01.
- FOR EQUIPMENT RACK LOCATIONS, SEE DWG. E02.
- 120VAC POWER DISTRIBUTION FROM 120/240VAC POWER PANELS IS NOT SHOWN ON THIS DRAWING. SEE DWG. E11 FOR "PP-1", "PP-2", "PP-3" AND "PP-4" PANEL SCHEDULES.
- FOR POWER DISTRIBUTION PANEL "DP-1" PANEL SCHEDULE SEE DWG. E11.

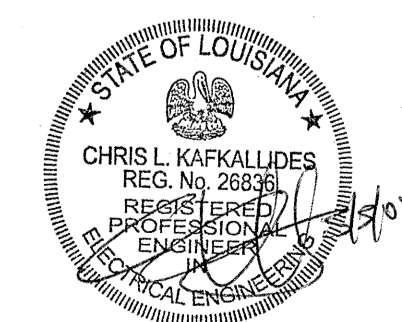


WASTE TRANSFER STATION SITE ELECTRICAL DISTRIBUTION DIAGRAM

NAMEPLATE SCHEDULE						
ITEM NO.	QTY.	SIZE (WxH)	LETTER HEIGHT	LETTER COLOR	BKGND. COLOR	INSCRIPTION
1	1	4"x2"	3/16"	WHITE	BLACK	DISTRIBUTION PANEL DP-1 480VAC
2	1	4"x2"	3/16"	WHITE	BLACK	TRANSFORMER #1 25kVA 480-120/240, 1ø
3	1	4"x2"	3/16"	WHITE	BLACK	POWER PANEL PP-1 120/240, 1ø
4	1	4"x2"	3/16"	WHITE	BLACK	DISCONNECT SWITCH 480V, 3ø
5	1	4"x2"	3/16"	WHITE	BLACK	TRANSFORMER 2 37.5kVA 480-120/240, 1ø
6	1	4"x2"	3/16"	WHITE	BLACK	POWER PANEL PP-2 120/240, 1ø
7	1	4"x2"	3/16"	WHITE	BLACK	DISCONNECT SWITCH 480V, 3ø
8	13	4"x2"	3/16"	WHITE	BLACK	TRANSFORMER #3 15kVA 480-120/240, 1ø
9	2	4"x2"	3/16"	WHITE	BLACK	POWER PANEL PP-3 120/240, 1ø
10	2	4"x2"	3/16"	WHITE	BLACK	DISCONNECT SWITCH 480V, 3ø
11	1	4"x2"	3/16"	WHITE	BLACK	TRANSFORMER #4 15kVA 480-120/240, 1ø
12	1	4"x2"	3/16"	WHITE	BLACK	POWER PANEL PP-4 120/240, 1ø
13	1	4"x2"	3/16"	WHITE	BLACK	P-3 240V, 1ø DISCONNECT SWITCH
14	1	4"x2"	3/16"	WHITE	BLACK	P-4 240V, 1ø DISCONNECT SWITCH
15	1	4"x2"	3/16"	WHITE	BLACK	P-2 240VAC, 1ø DISCONNECT SWITCH

NAMEPLATE NOTES

1. NAMEPLATES TO BE FABRICATED FROM 3 PLY LAMINATED PLASTIC WITH WHITE FACES AND A BLACK ENGRAVING CORE.
2. WORDING TO BE AS INDICATED ON NAMEPLATE SCHEDULE.
3. ATTACH NAMEPLATES TO EQUIPMENT IN A CLEAN, DRY AND PROMINENT PLACE USING RTV ADHESIVE.



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NAMEPLATE SCHEDULE
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HWY 25

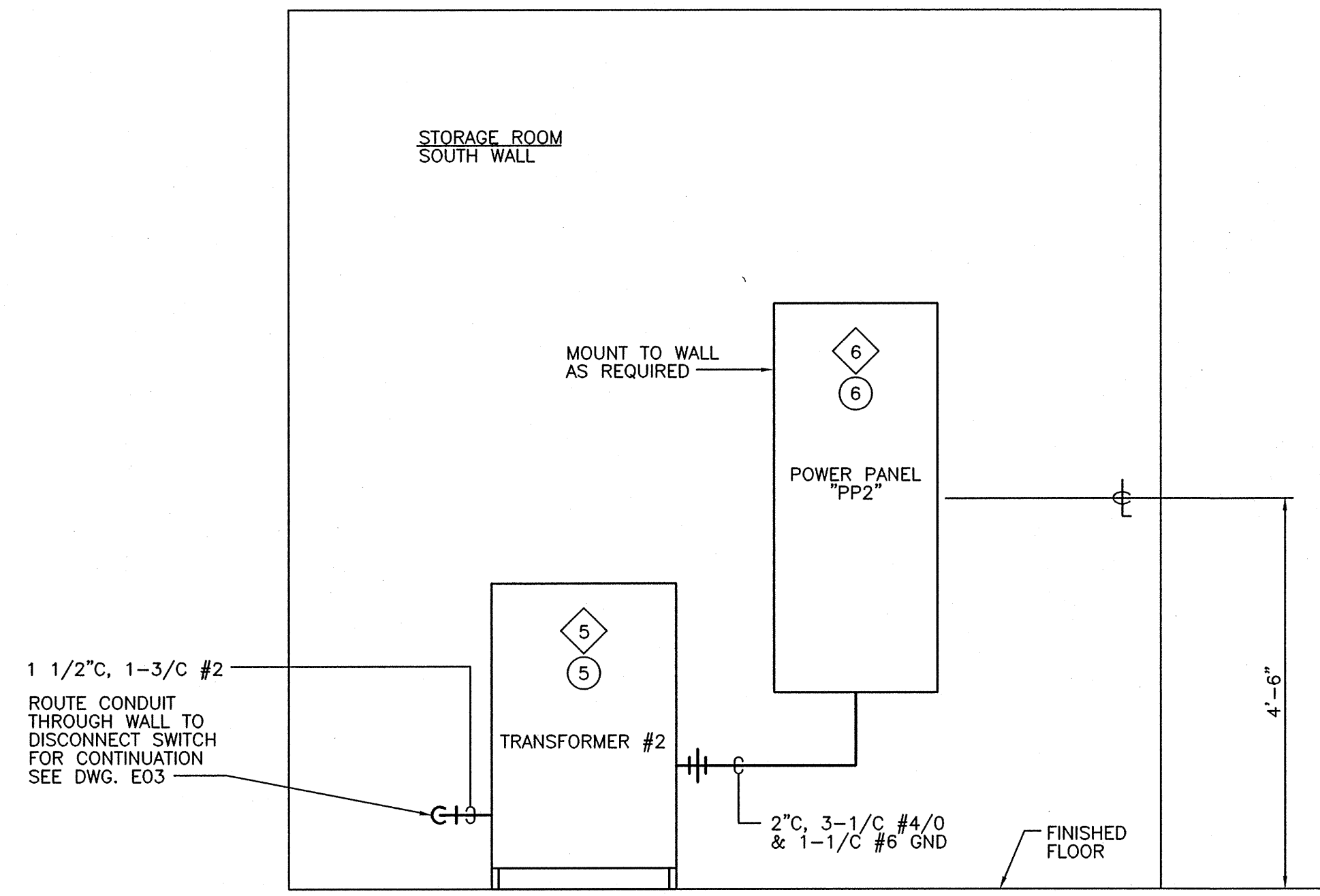
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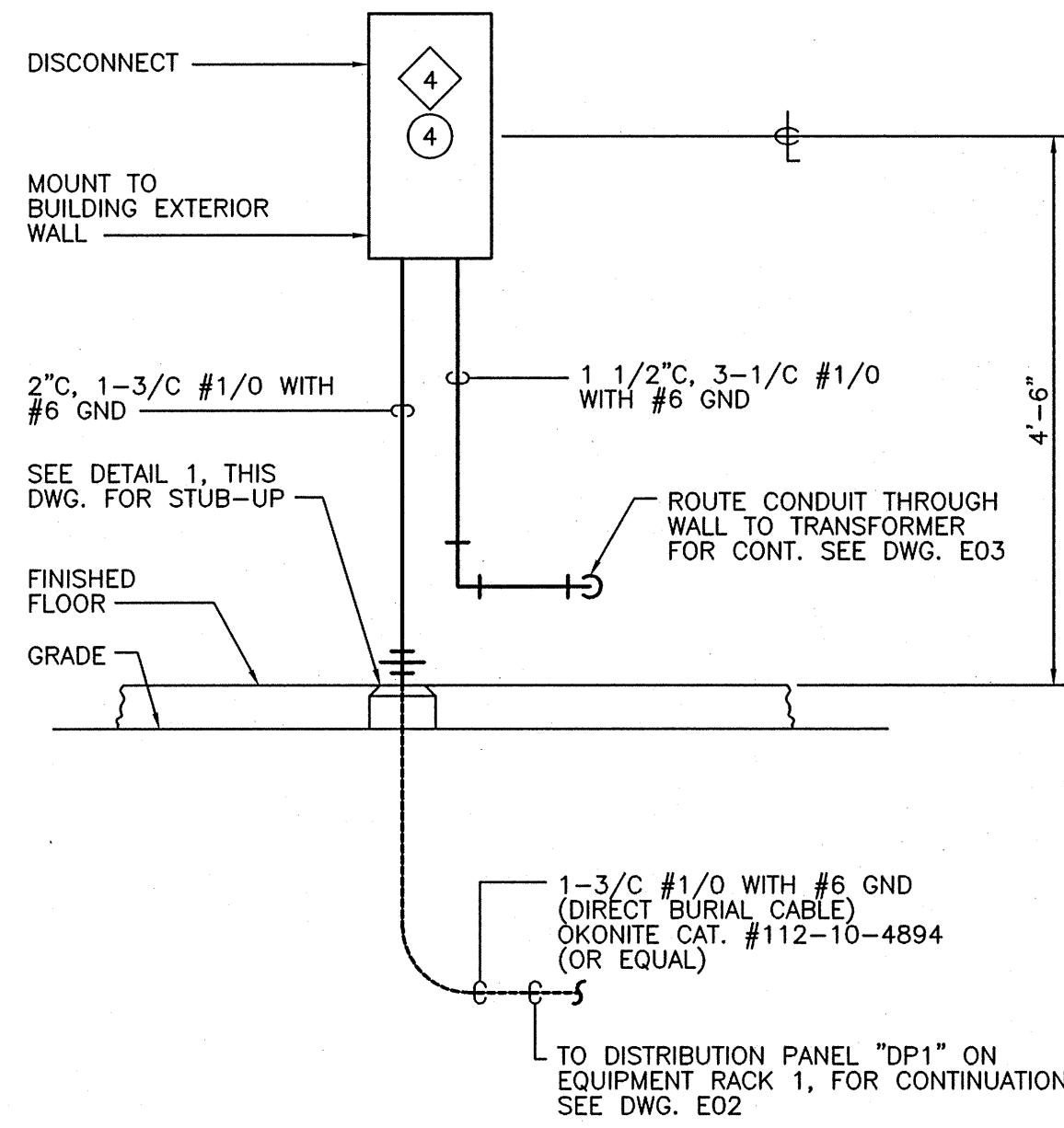
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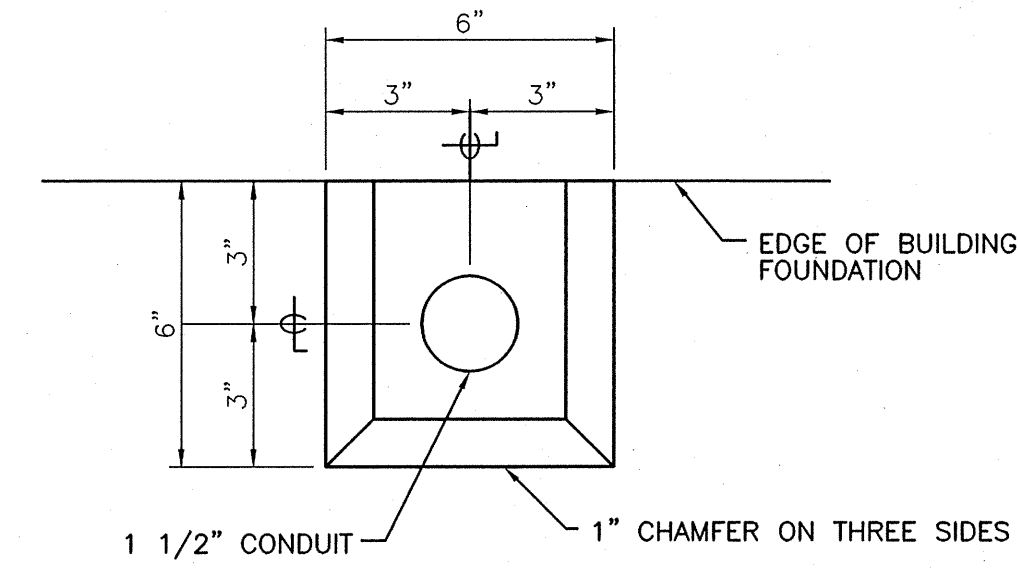
NOTE: SEE ELECTRICAL DISTRIBUTION DIAGRAM, DWG. E10

SECTION "A-A"
SCALE: 3/4"=1'-0" DWG. E03



NOTE: SEE ELECTRICAL DISTRIBUTION DIAGRAM, DWG. E10

SECTION "B-B"
SCALE: 3/4"=1'-0" DWG. E03

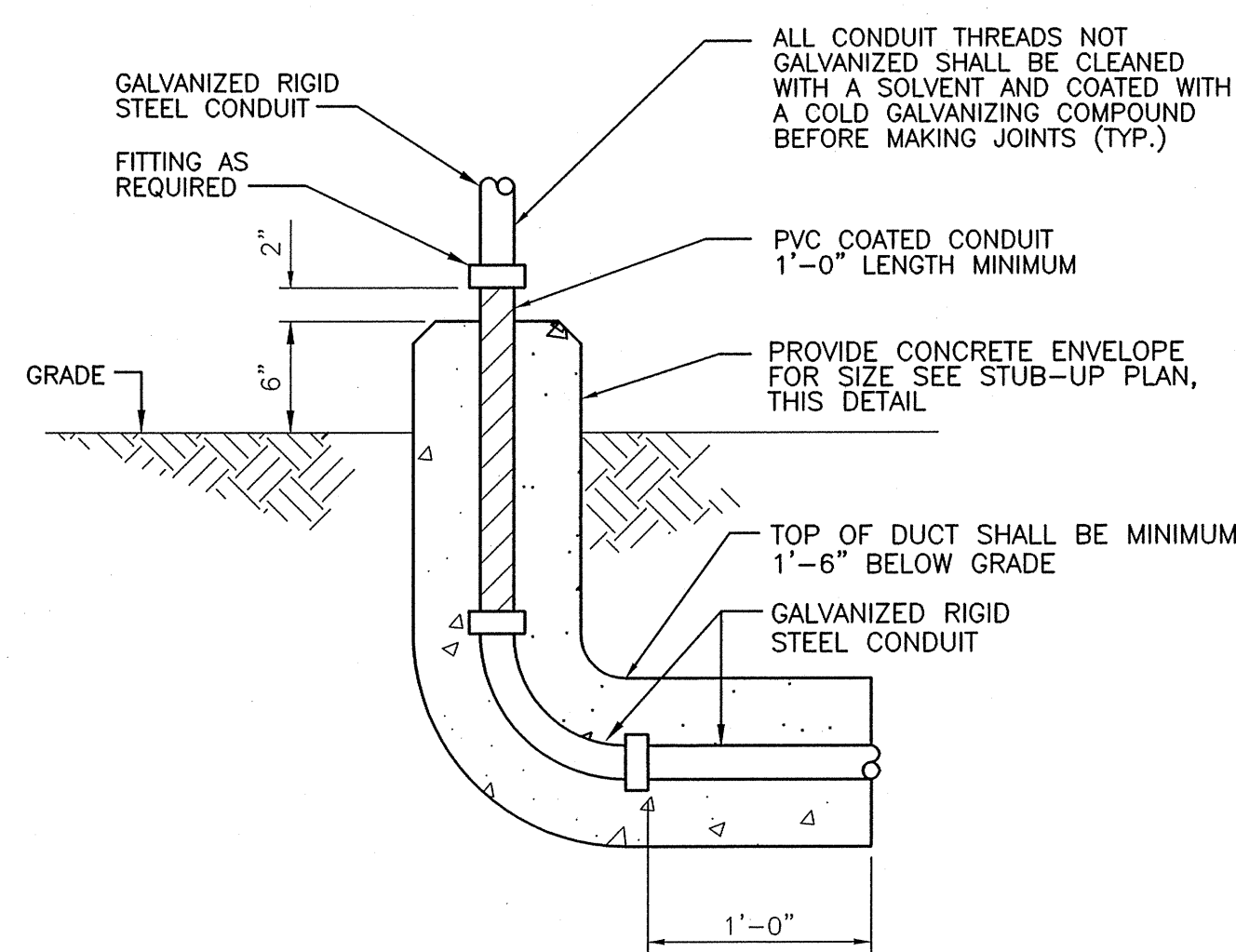


NOTES:

1. EXACT LOCATION OF STUB-UP TO BE DETERMINED IN FIELD.
2. SEE DETAIL 2, THIS DWG. FOR STANDARD CONDUIT STUB-UP

CONDUIT STUB-UP PLAN

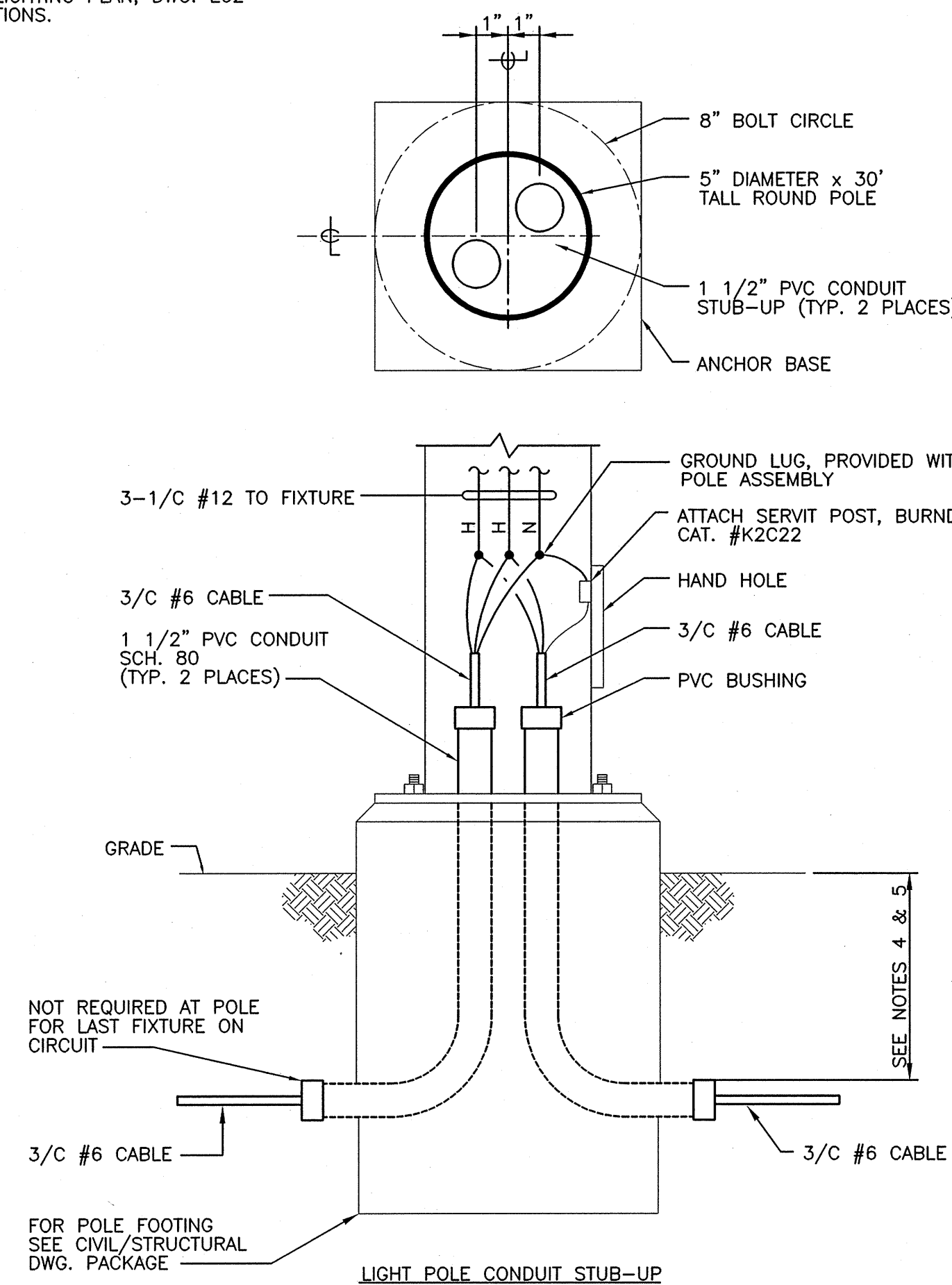
DETAIL 1
N.T.S.



CONDUIT STUB-UP

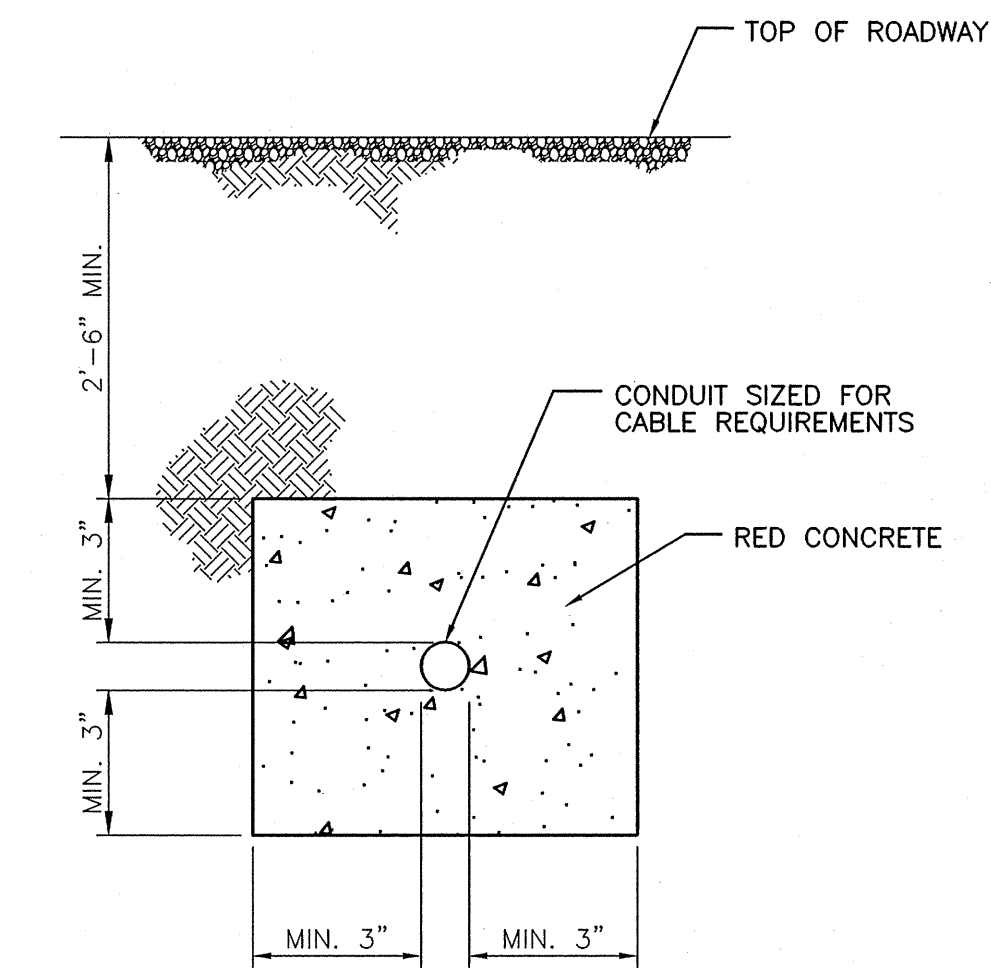
DETAIL 2
N.T.S.

- NOTES:
1. SEE AREA SITE LIGHTING PLAN, DWG. E02 FOR POLE LOCATIONS.



LIGHT POLE CONDUIT STUB-UP

DETAIL 3
N.T.S.



CONDUIT CROSSING ROADWAY SECTION

DETAIL 4
N.T.S.

NOTES

1. FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
2. NUMBER IN CIRCLE 1 INDICATES ITEM ON ELECTRICAL EQUIPMENT LIST. SEE DWG. E01.
3. NUMBER IN DIAMOND 1 INDICATES ITEM ON NAMEPLATE SCHEDULE. SEE DWG. E15.
4. UNDERGROUND CONDUCTORS ROUTED BELOW ROADWAYS SHALL BE ENCASED IN CONCRETE. SEE DETAIL 4, THIS DWG.
5. DIRECT BURIAL CABLES TO BE A MINIMUM OF 24" BELOW GRADE. DIRECT BURIAL CABLES SHALL HAVE THEIR LOCATION IDENTIFIED BY AN APPROVED WARNING RIBBON PLACED IN THE TRENCH AT LEAST 12" ABOVE THE UNDERGROUND INSTALLATION.

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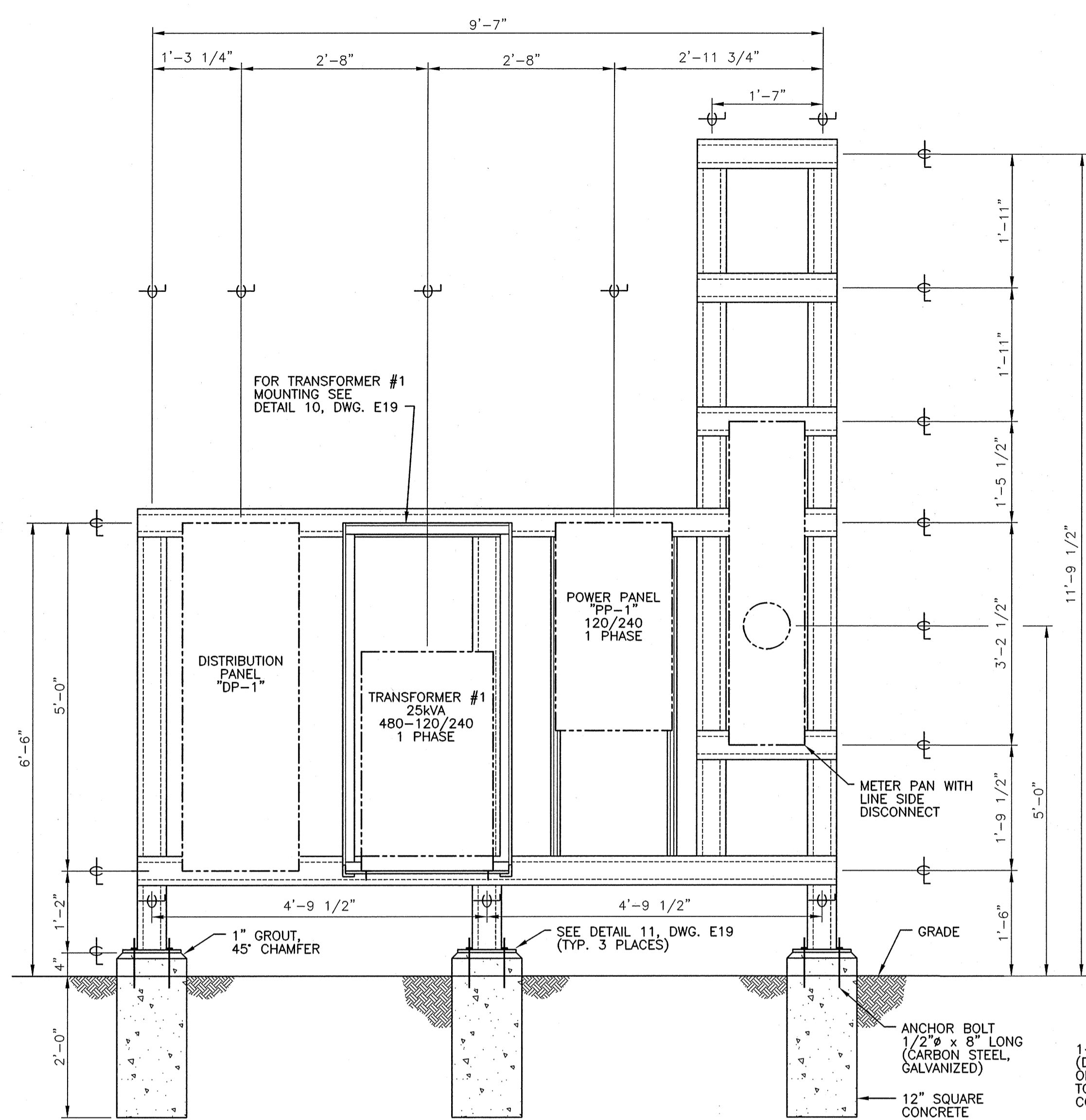
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PROJECT WITHOUT THE WRITTEN PERMISSION OF
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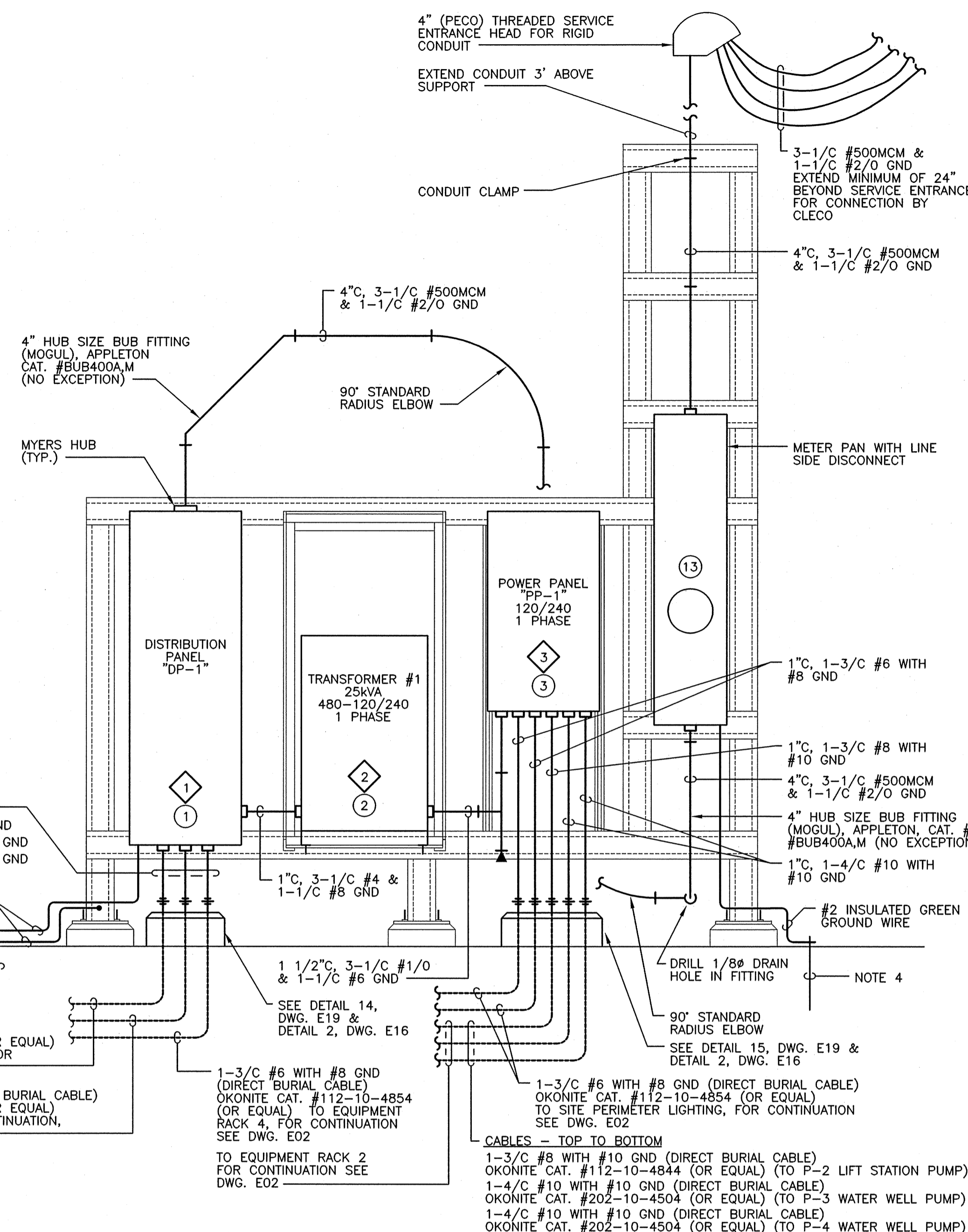


- NOTES**
1. ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
 2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

1-3/C #1/0 WITH #6 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4894 (OR EQUAL) TO OFFICE/MAINTENANCE SHOP, FOR CONTINUATION SEE DWG. E02

1-3/C #6 WITH #8 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4854 (OR EQUAL) TO EQUIPMENT RACK 3, FOR CONTINUATION SEE DWG. E02

**EQUIPMENT RACK 1
DETAIL 5**
SCALE: 3/4"=1'-0"



CONDUITS - LEFT TO RIGHT
2" C, 1-3/C #1/0 WITH #6 GND
1 1/2" C, 1-3/C #6 WITH #8 GND
1 1/2" C, 1-3/C #6 WITH #8 GND

#2 INSULATED GREEN COPPER GROUND WIRE

NOTE 5

1 1/2" C, 3-1/C #1/0 & 1-1/C #6 GND

SEE DETAIL 14, DWG. E19 & DETAIL 2, DWG. E16

1-3/C #6 WITH #8 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4854 (OR EQUAL) TO EQUIPMENT RACK 2 FOR CONTINUATION SEE DWG. E02

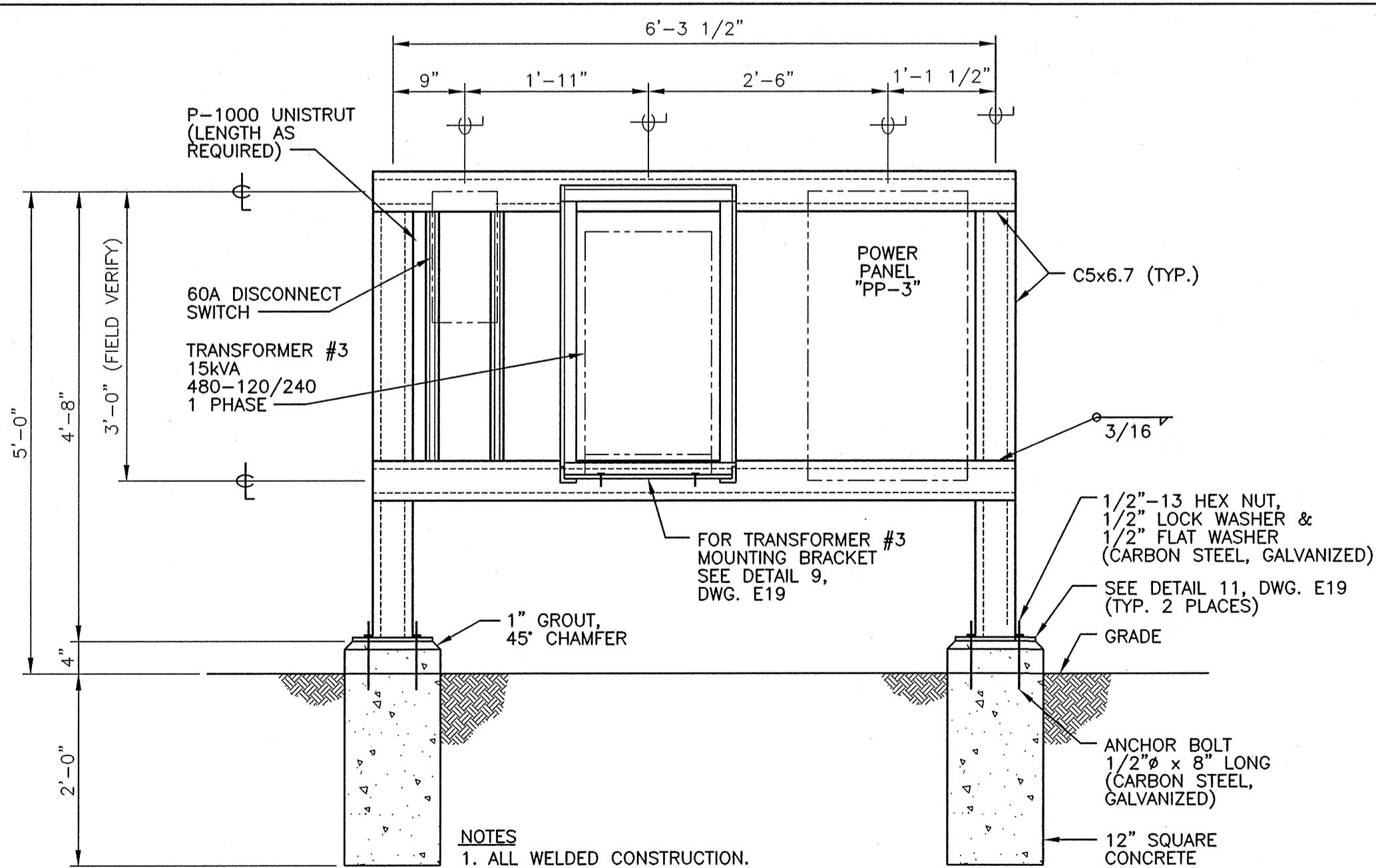
1-3/C #6 WITH #8 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4854 (OR EQUAL) TO SITE PERIMETER LIGHTING, FOR CONTINUATION SEE DWG. E02

CABLES - TOP TO BOTTOM
1-3/C #8 WITH #10 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4844 (OR EQUAL) (TO P-2 LIFT STATION PUMP)
1-4/C #10 WITH #10 GND (DIRECT BURIAL CABLE) OKONITE CAT. #202-10-4504 (OR EQUAL) (TO P-3 WATER WELL PUMP)
1-4/C #10 WITH #10 GND (DIRECT BURIAL CABLE) OKONITE CAT. #202-10-4504 (OR EQUAL) (TO P-4 WATER WELL PUMP)

**EQUIPMENT RACK 2
DETAIL 5**
SCALE: 3/4"=1'-0"

NOTES

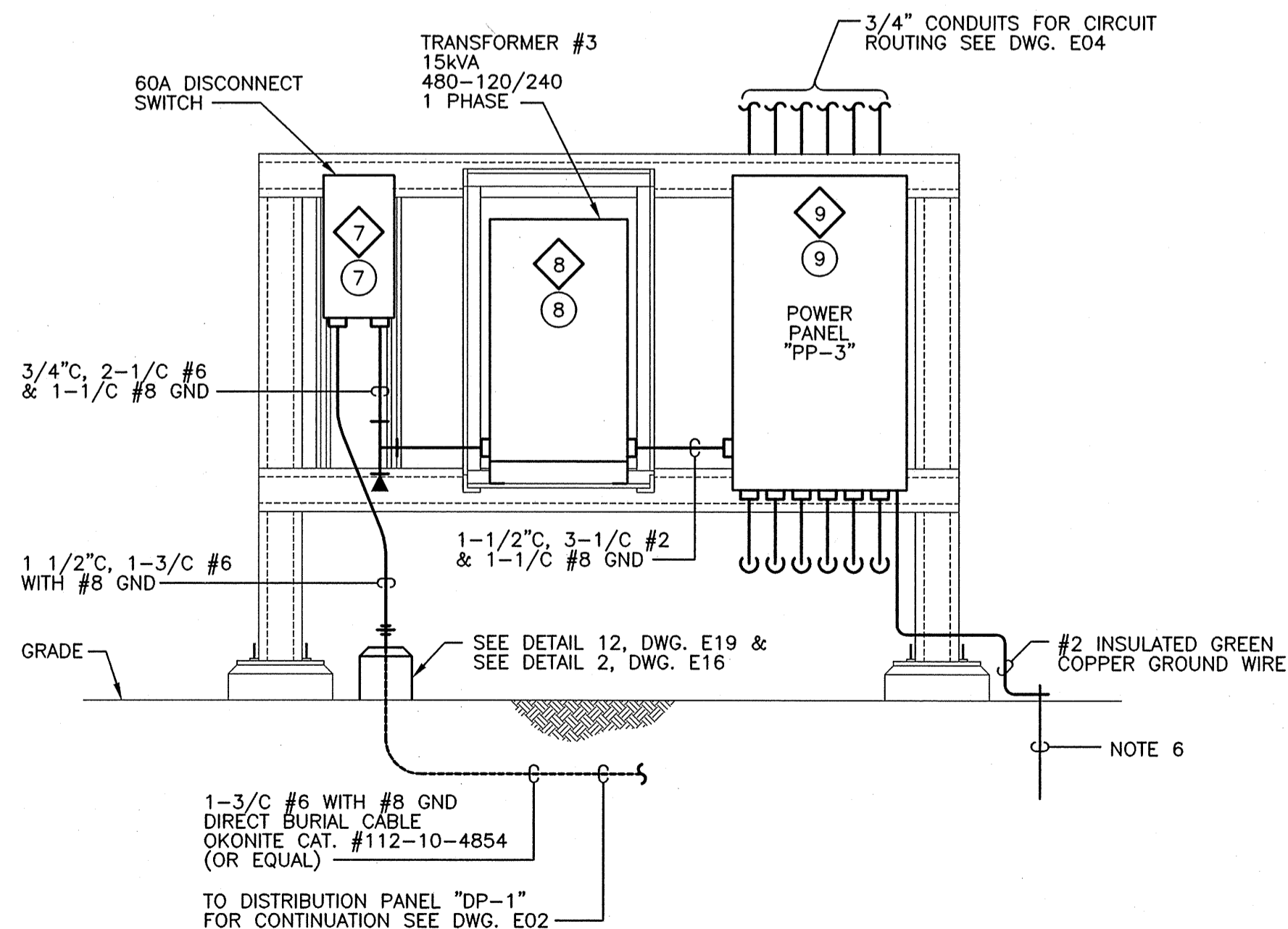
1. FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
2. NUMBER IN CIRCLE (1) INDICATES ITEM ON ELECTRICAL EQUIPMENT LIST. SEE DWG. E01.
3. NUMBER IN DIAMOND (1) INDICATES ITEM ON NAMEPLATE SCHEDULE. SEE DWG. E15.
4. INSTALL 3/4" x 10'-0" LONG COPPER GROUND ROD. ROUTE #2 GREEN INSULATED STRANDED COPPER WIRE FROM METER/LINE SIDE DISCONNECT TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.
5. INSTALL 3/4" x 10'-0" LONG COPPER GROUND ROD. ROUTE #2 INSULATED STRANDED COPPER WIRE FROM DISTRIBUTION PANEL TO GROUND ROD. ROUTE #2 INSULATED STRANDED COPPER WIRE FROM EQUIPMENT RACK STEEL TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.
6. INSTALL 3/4" x 10'-0" LONG COPPER GROUND ROD. ROUTE #2 GREEN INSULATED STRANDED WIRE FROM POWER PANEL "PP3" TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.



- NOTES**
1. ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
 2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

FABRICATION

**EQUIPMENT RACK 3
DETAIL 6**
SCALE: 3/4"=1'-0"



3/4" C, 2-1/C #6 & 1-1/C #8 GND

1 1/2" C, 1-3/C #6 WITH #8 GND

1-1/2" C, 3-1/C #2 & 1-1/C #8 GND

1-3/C #6 WITH #8 GND (DIRECT BURIAL CABLE) OKONITE CAT. #112-10-4854 (OR EQUAL) TO DISTRIBUTION PANEL "DP-1" FOR CONTINUATION SEE DWG. E02

NOTE 6

ELEVATION

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HWY 25 COVINGTON LA 70435

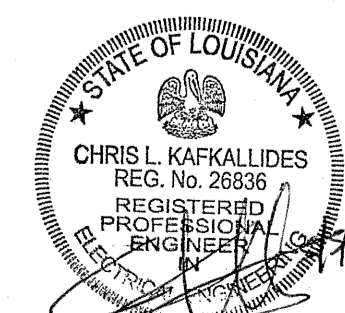
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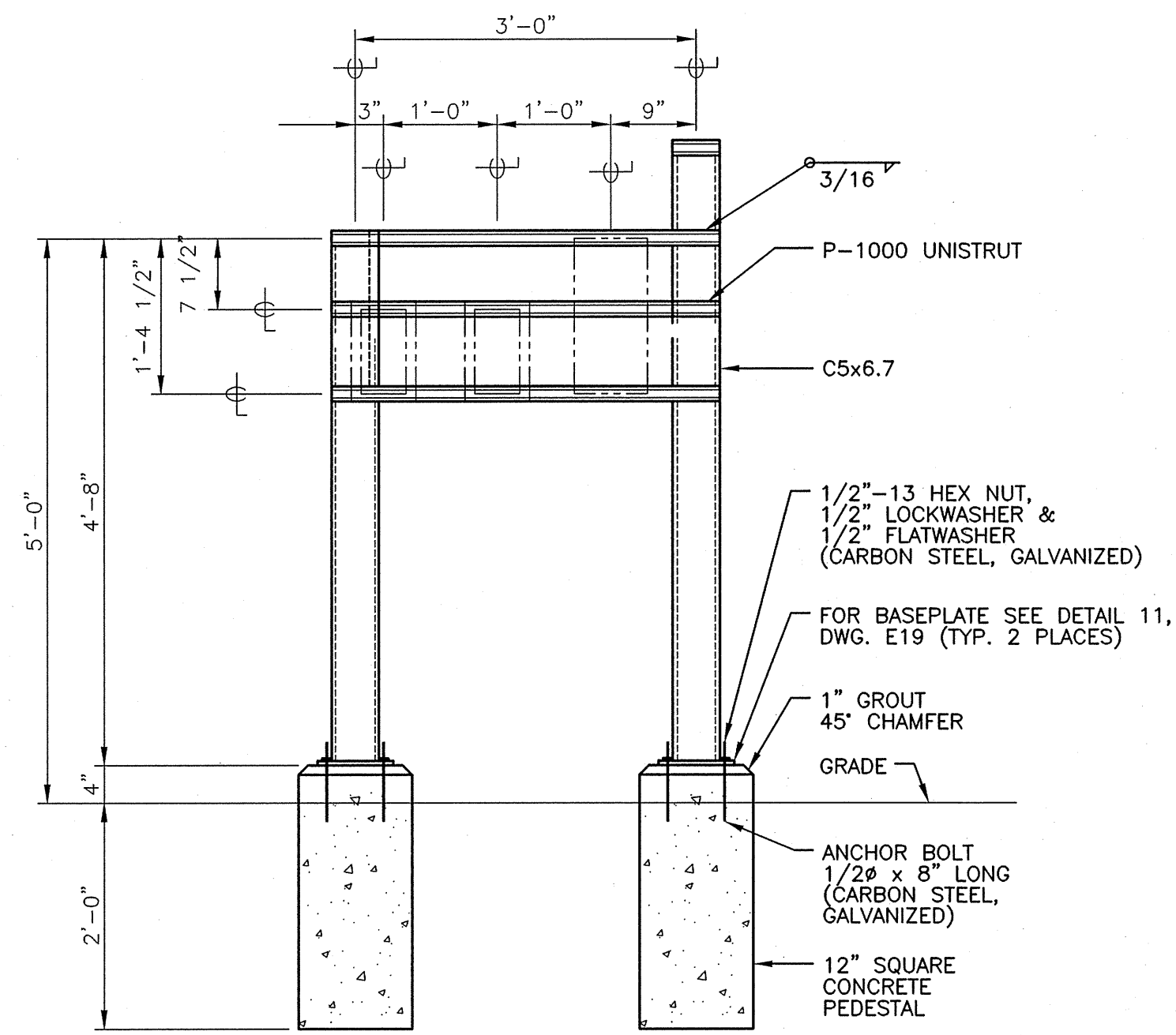
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MAY, 2008
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E17



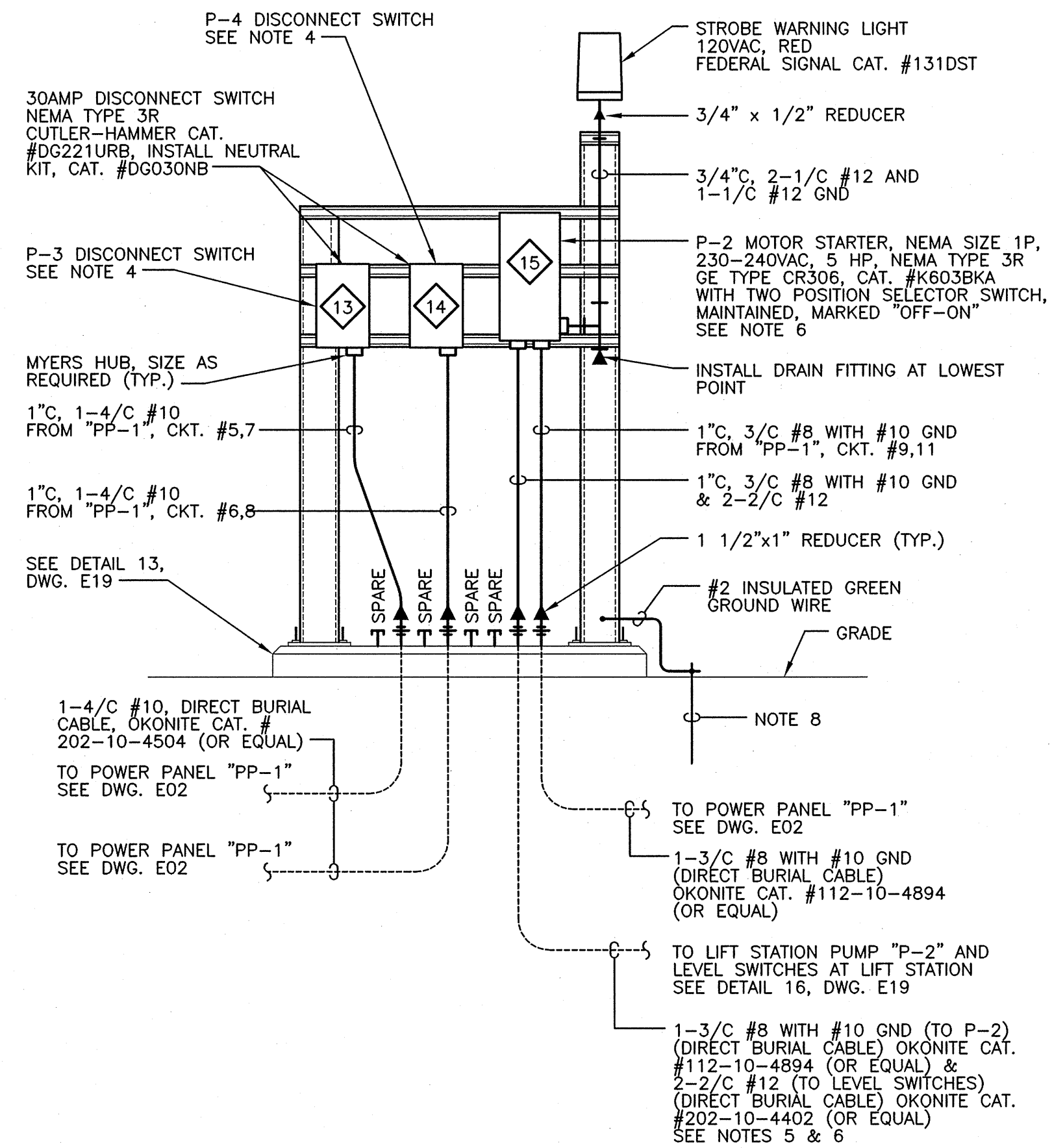
- NOTES**
1. ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
 2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

FABRICATION

EQUIPMENT RACK 2

DETAIL 7

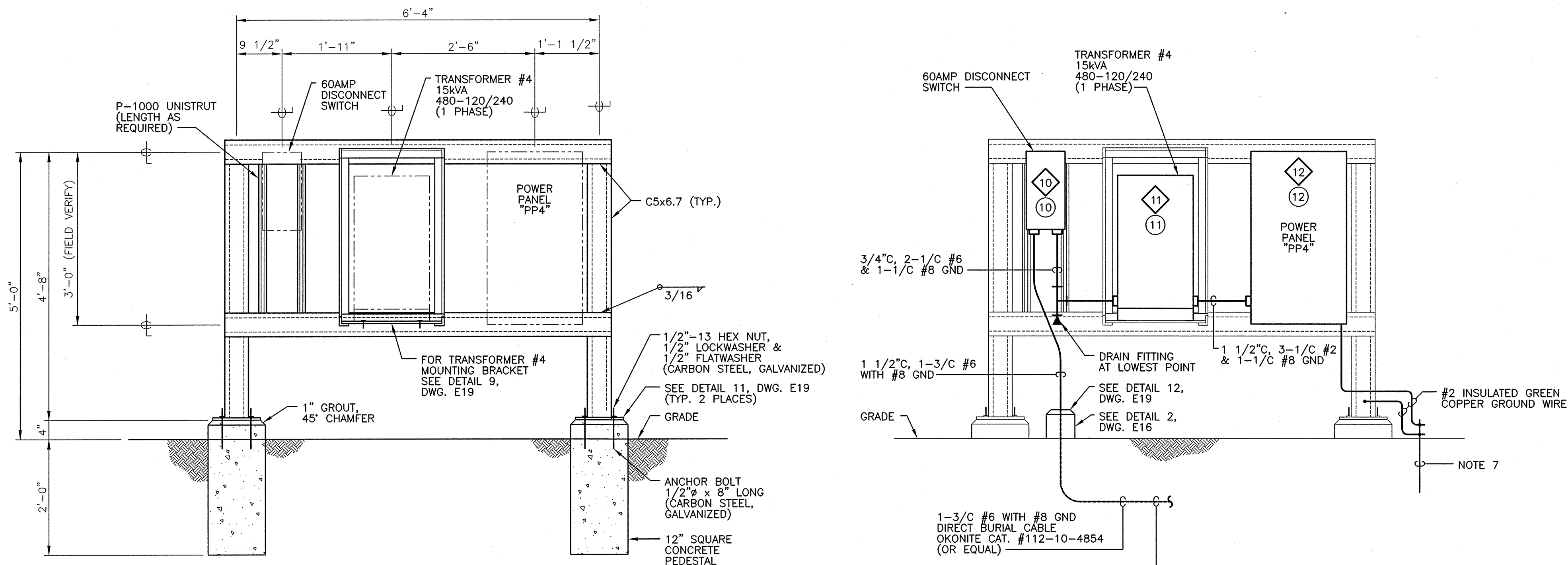
SCALE: 3/4"=1'-0"



ELEVATION

NOTES

1. FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.
2. NUMBER IN CIRCLE ① INDICATES ITEM ON ELECTRICAL EQUIPMENT LIST, SEE DWG. E01.
3. NUMBER IN DIAMOND Ⓛ INDICATES ITEM ON NAMEPLATE SCHEDULE, SEE DWG. E15.
4. CONDUIT AND WIRE TO P-3 AND P-4 MOTORS TO BE INSTALLED BY WELL VENDOR.
5. FOR WIRING TO LEVEL SWITCHES SEE ELEMENTARY DIAGRAM, DWG. E19.
6. FOR MOTOR STARTER AND MOTOR WIRING SEE LIFT STATION PUMP P-2 ELEMENTARY DIAGRAM, DWG. E19.
7. INSTALL 3/4" x 10'-0" LONG COPPER GROUND ROD, ROUTE #2 INSULATED STRANDED WIRE FROM POWER PANEL "PP-4" TO GROUND ROD, ROUTE #2 GREEN INSULATED STRANDED WIRE FROM EQUIPMENT RACK STEEL TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.
8. INSTALL 3/4" x 10'-0" LONG COPPER GROUND ROD, ROUTE #2 INSULATED STRANDED WIRE FROM EQUIPMENT RACK STEEL TO GROUND ROD. MAKE CONNECTIONS USING BURNDY CONNECTORS OR APPROVED EQUALS.



- NOTES**
1. ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
 2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

FABRICATION

EQUIPMENT RACK 4

DETAIL 8

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

ELEVATION



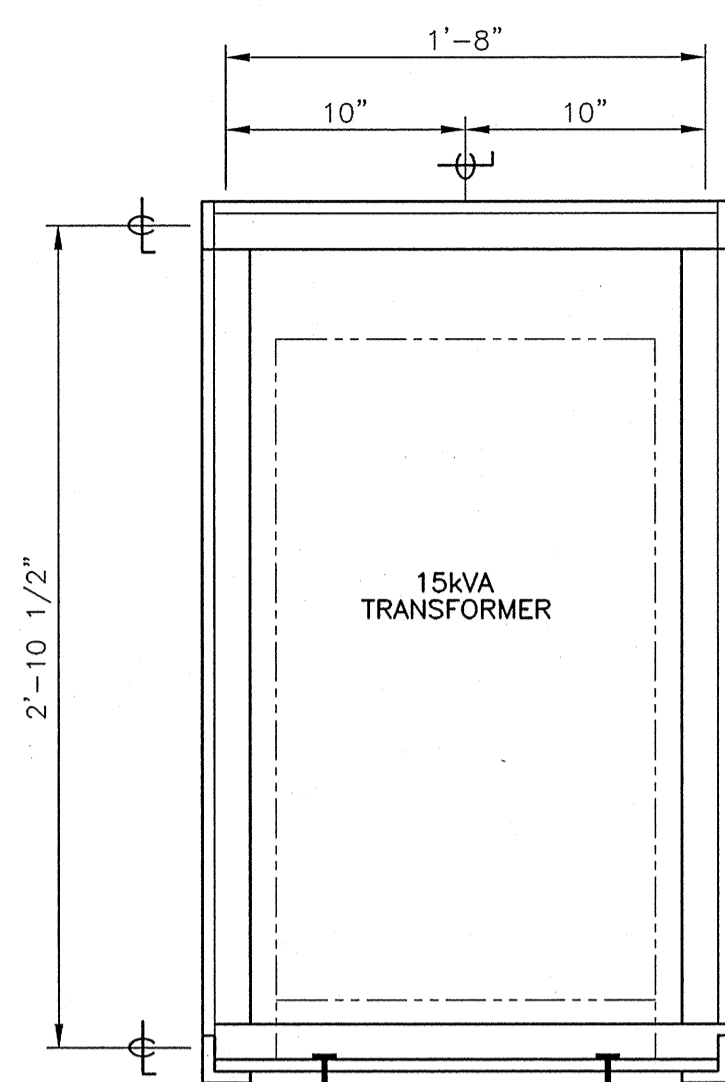
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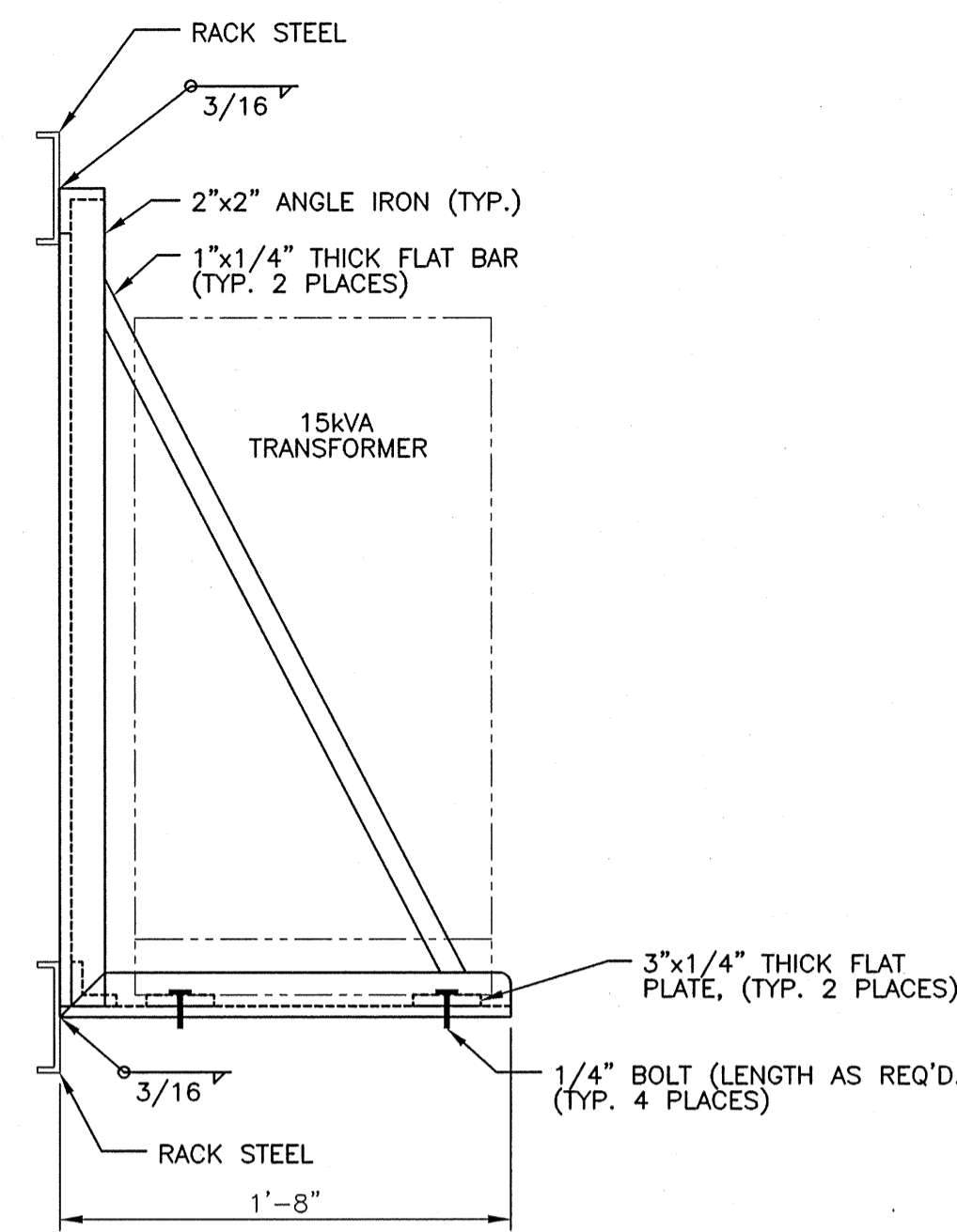
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FRONT ELEVATION

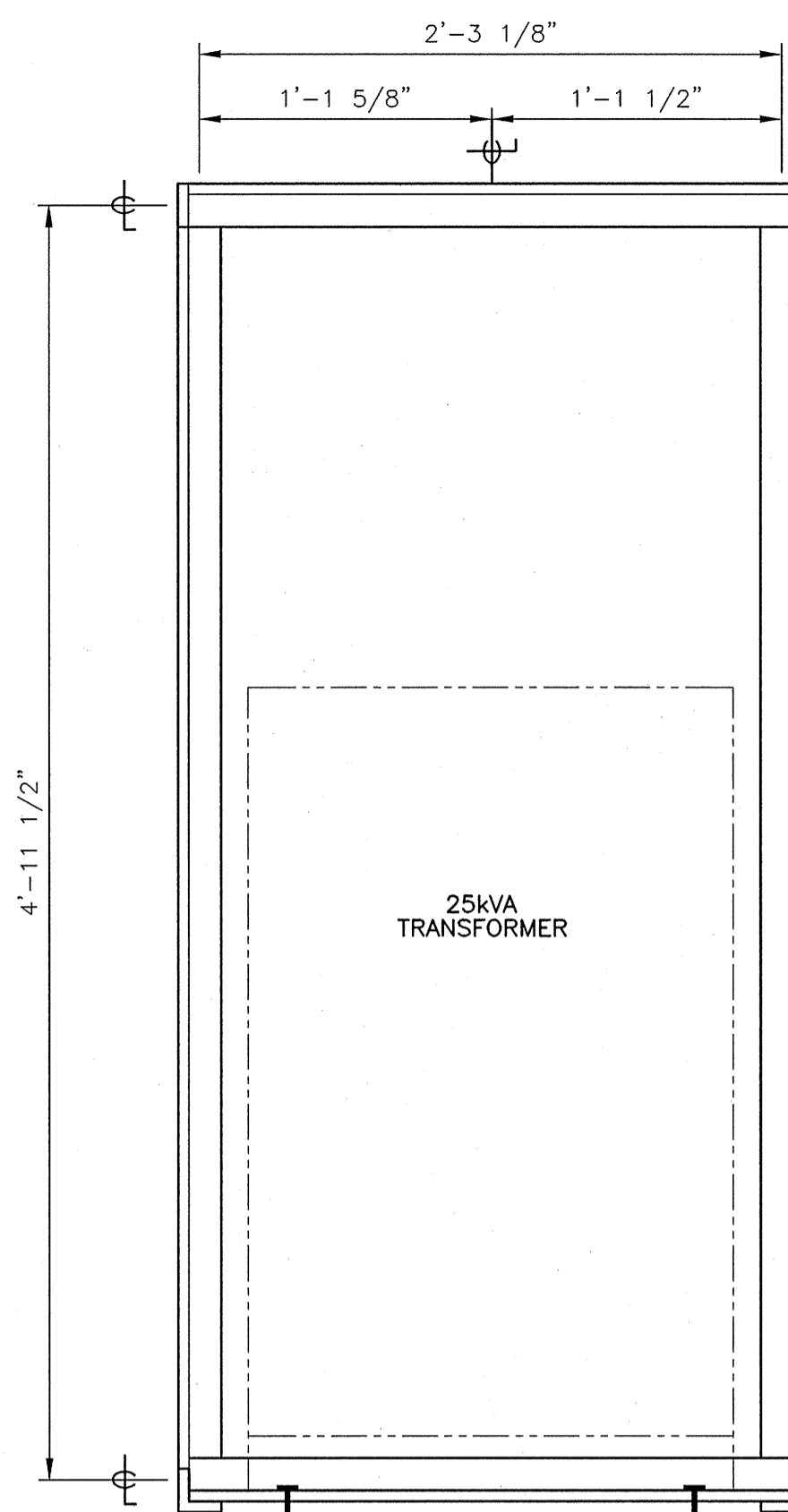


SIDE ELEVATION

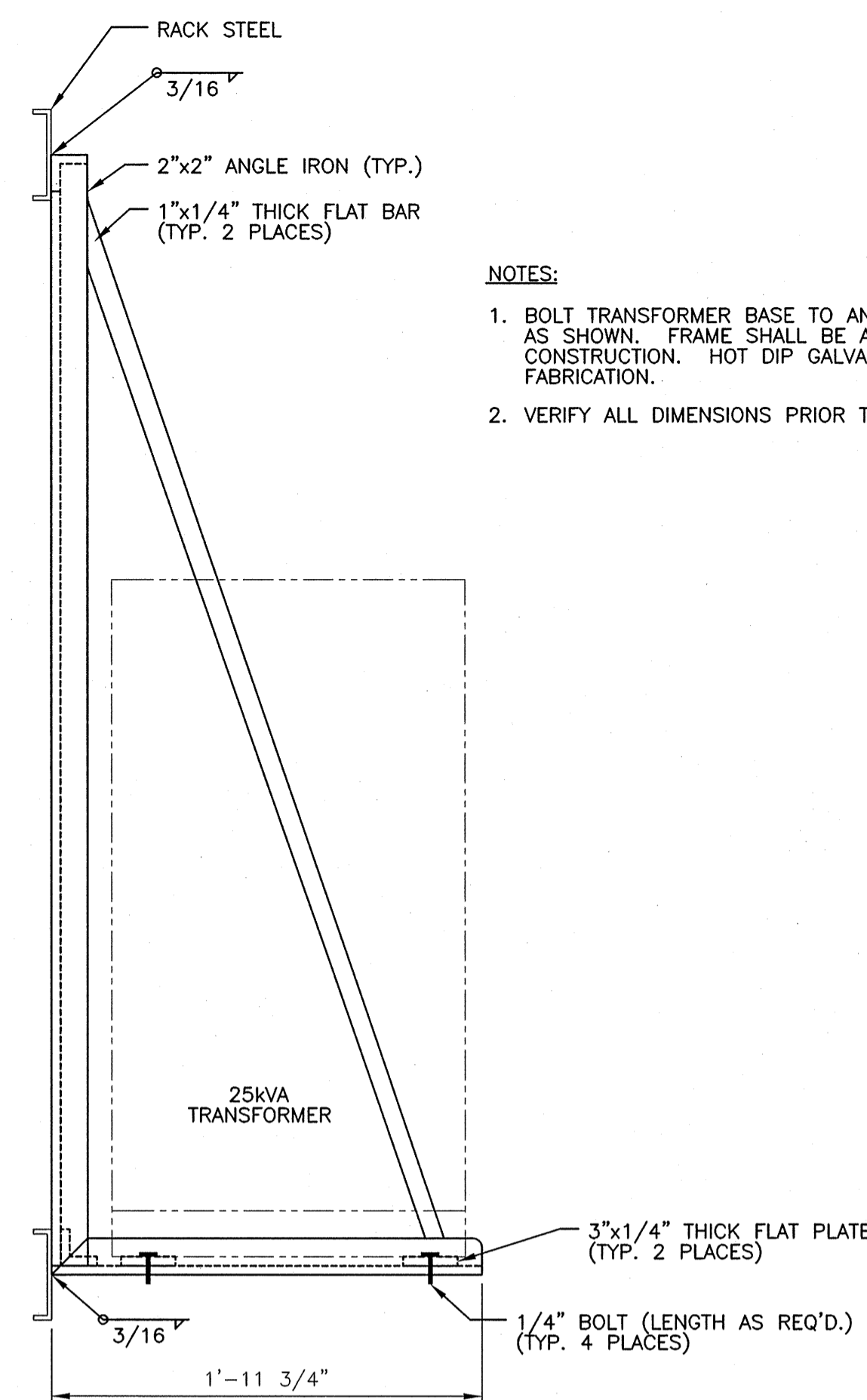
NOTES:

1. BOLT TRANSFORMER BASE TO ANGLE FRAME AS SHOWN. FRAME SHALL BE ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

DETAIL 9
SCALE: 1 1/2"=1'-0"



FRONT ELEVATION



25kVA TRANSFORMER

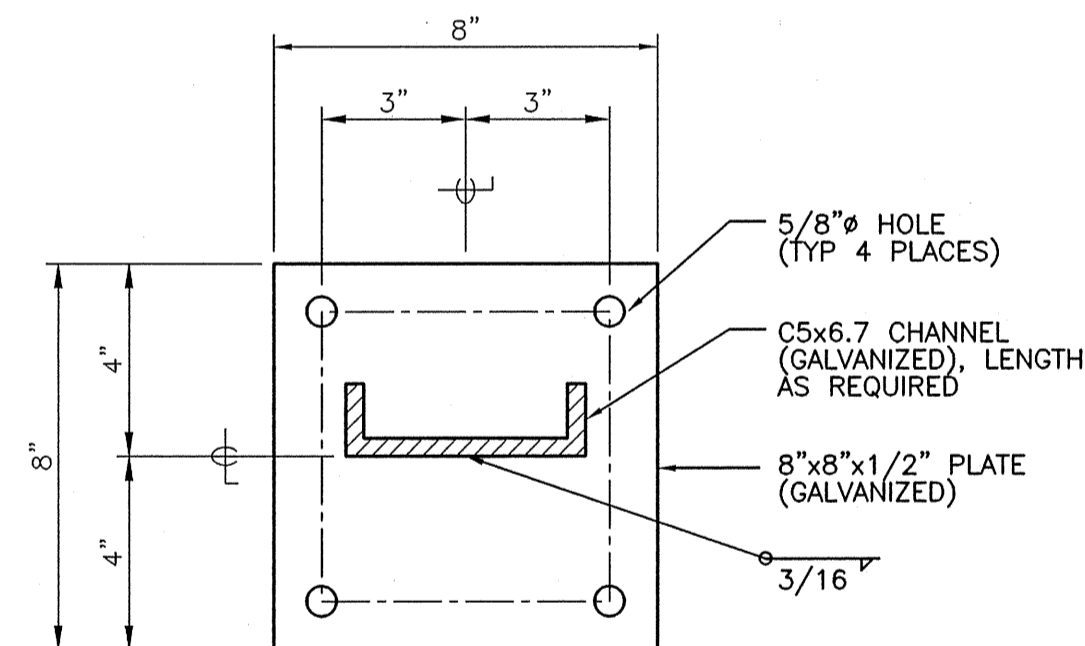
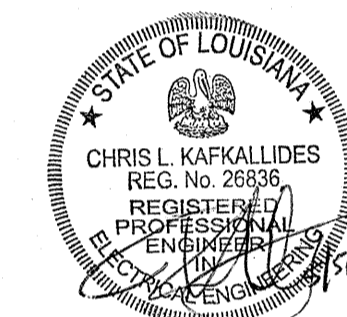
DETAIL 10 SIDE ELEVATION
SCALE: 1 1/2"=1'-0"

NOTES:

1. BOLT TRANSFORMER BASE TO ANGLE FRAME AS SHOWN. FRAME SHALL BE ALL WELDED CONSTRUCTION. HOT DIP GALVANIZE AFTER FABRICATION.
2. VERIFY ALL DIMENSIONS PRIOR TO FABRICATION.

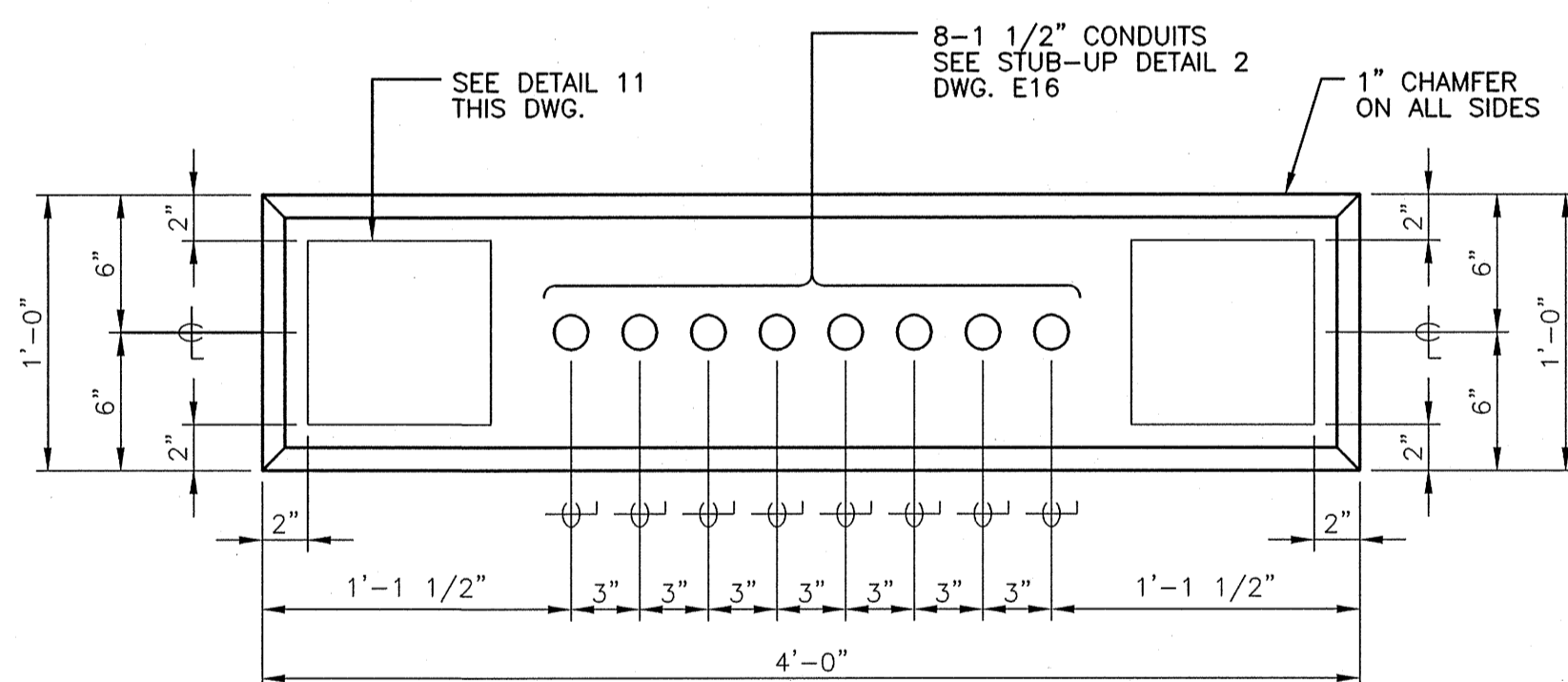
NOTES

1. FOR GENERAL NOTES AND ELECTRICAL SYMBOL LEGEND SEE DWG. E01.

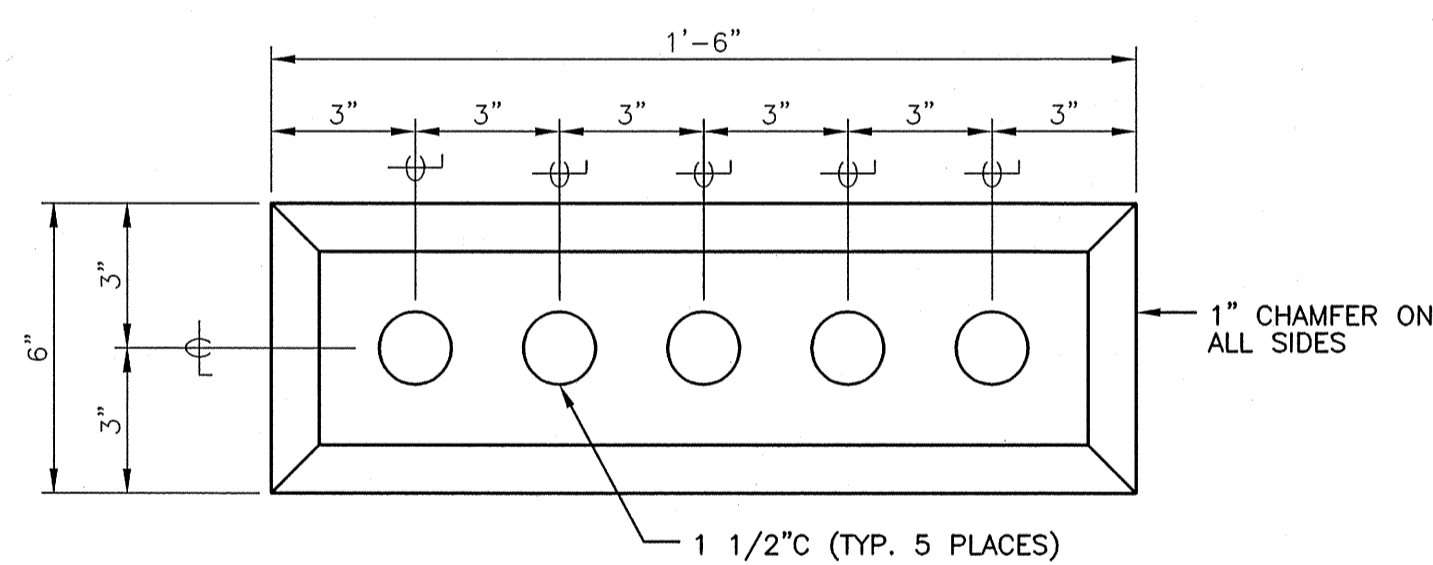


BASEPLATE

DETAIL 11
SCALE: 1 1/2"=1'-0"



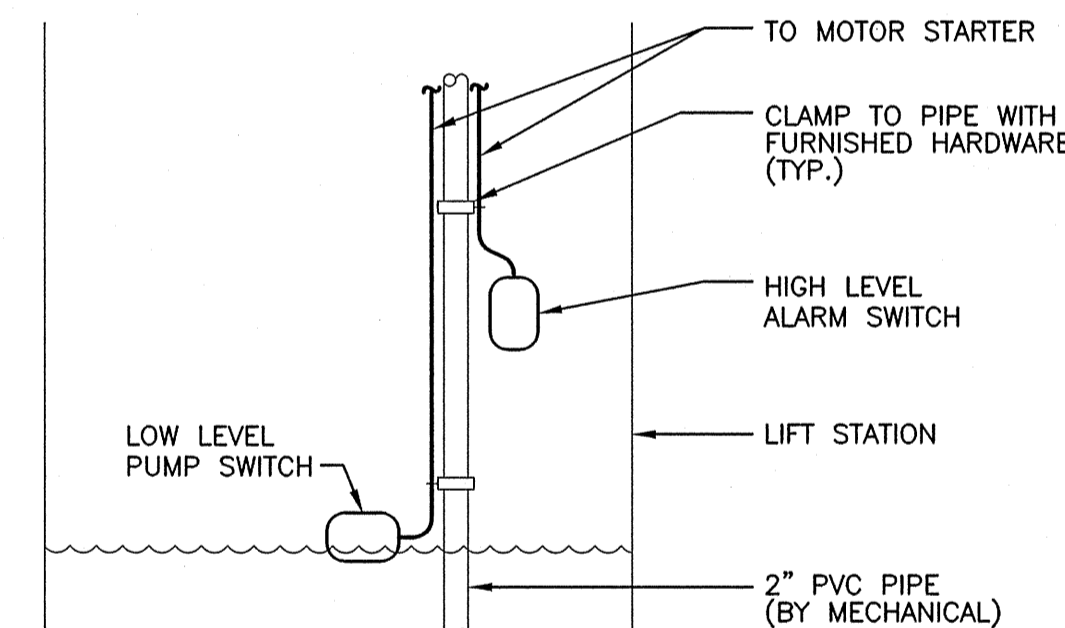
DETAIL 13
SCALE: 1 1/2"=1'-0"



NOTE: EXACT LOCATION OF STUB-UP TO BE DETERMINED IN FIELD

STUB-UP PLAN

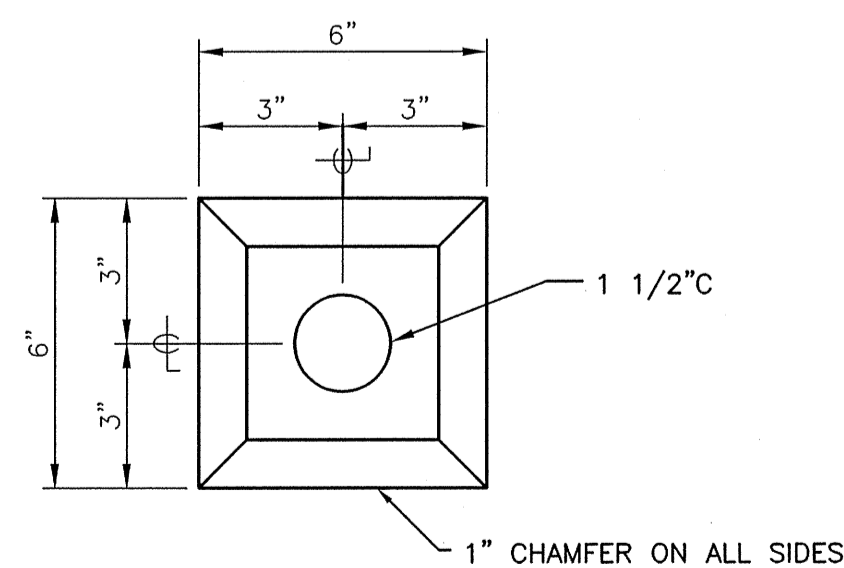
DETAIL 15
SCALE: 3"=1'-0"



FOR LEVEL SWITCH SETPOINTS SEE CIVIL/STRUCTURAL PACKAGE.

LEVEL SWITCHES

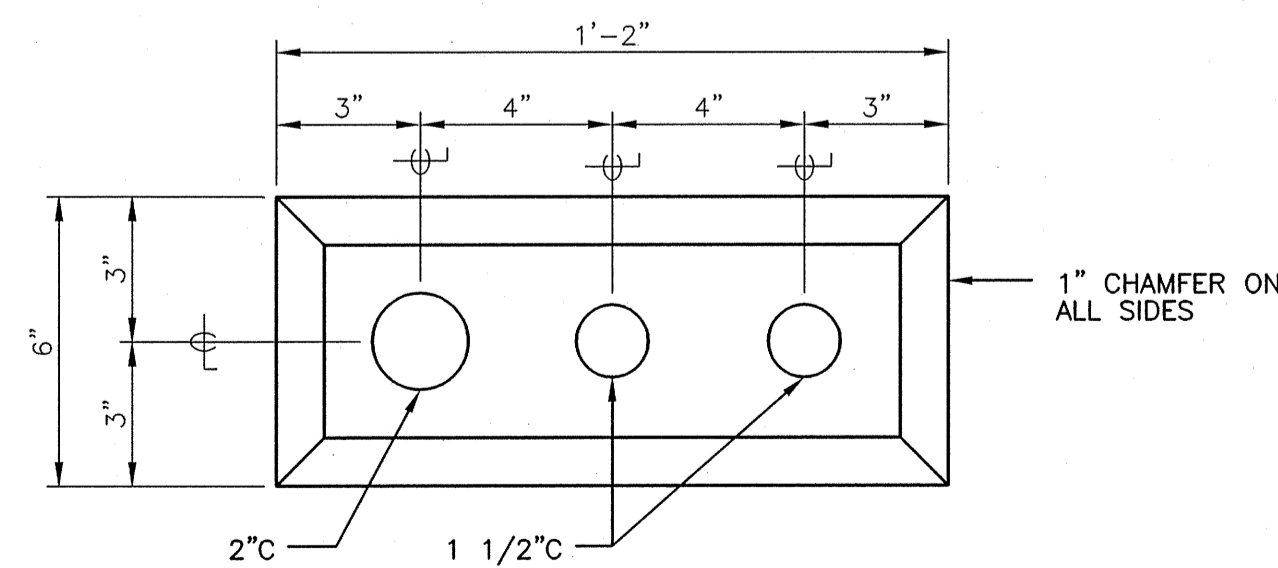
DETAIL 16
SCALE: 3"=1'-0"



NOTE: EXACT LOCATION OF STUB-UP TO BE DETERMINED IN FIELD

STUB-UP PLAN

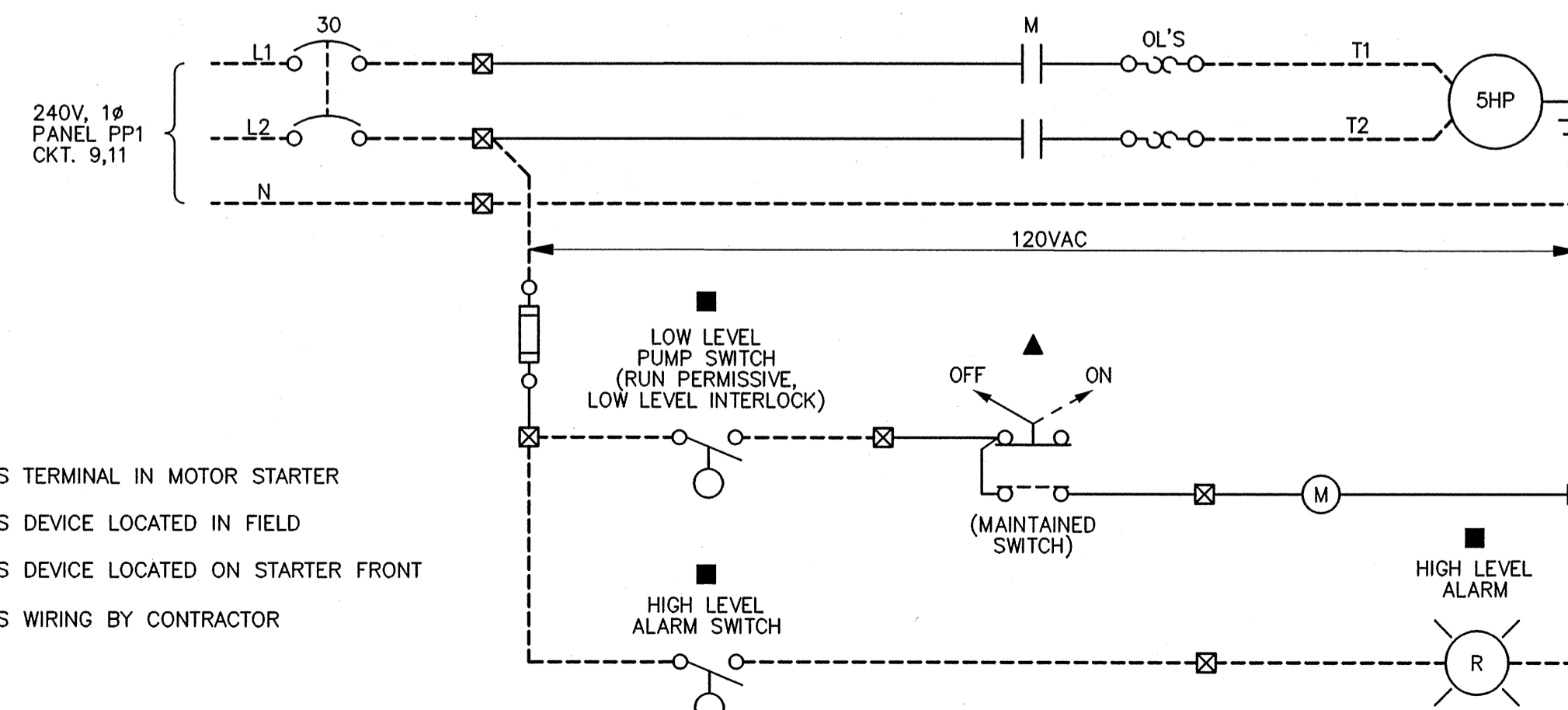
DETAIL 12
SCALE: 3"=1'-0"



NOTE: EXACT LOCATION OF STUB-UP TO BE DETERMINED IN FIELD

STUB-UP PLAN

DETAIL 14
SCALE: 3"=1'-0"



LEGEND

- ☒ INDICATES TERMINAL IN MOTOR STARTER
- INDICATES DEVICE LOCATED IN FIELD
- ▲ INDICATES DEVICE LOCATED ON STARTER FRONT
- INDICATES WIRING BY CONTRACTOR

LIFT STATION P-2 ELEMENTARY DIAGRAM

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