

May 23, 2024

ADDENDUM #1

TO ALL PROSPECTIVE BIDDERS:

SUBJECT: Emergency Generator Installation at Woodson Food Services Warehouse (MMB-088-24)

BID OPENING DATE: (ORIGINAL DATE) May 30, 2024, at 2:00 PM

THE SUBJECT INVITATION FOR BID IS AMENDED AS FOLLOWS:

THIS ADDENDUM IS SUPPLEMENTARY TO THE PLANS AND SPECIFICATIONS FOR THE ABOVE SUBJECT REQUIREMENT. ALL CHANGES, ADDITIONS AND DELETIONS SHALL BECOME PART OF THE CONTRACT.

CLARIFICATION: The following questions were submitted, and the combined answers are provided as clarification to the Bidders.

- Q1. Sheet E601 Detail 1 Demolition Power Riser shows the existing 3 sets of Conduit & Feeders to Existing MTS. The Conduits & Feeders do not exist. They go from an existing CT Cabinet to Panel and a Lockable Breaker.
- Q2. Do you want the contractor to re-route 3 sets of (4) 300 KCMil, (1) #2/0 Ground in 3" Conduit from existing CT to New ATS? In turn the existing load side wire from MTS(X) to be used as load side for New ATS appear not to be long enough to reach the Main Breaker in Panel MP. Do you want these Feeders extended or replaced with no splices?
- A1&2 Yes, incoming normal power feeders will need to run from existing CT to new ATS [3 SETS of (3) #300 KCMIL+(1) #2/0 G-N IN 3" C]. Then new feeders from the load side of new ATS to existing panel MP. See attached revised E101 and E601.**
- Q3. Request for confirmation per spec section (16213) 1.02 A-3 sub-base tank is to be UL2085 cement encased for the appropriate fire rating versus standard double wall sub-base tank UL142.
- Q4. 2.03 B-3 states internal/external should be constructed in accordance to UL142. UL142 is not inclusive of UL 2085.
- A3&4 FCPS only require a fuel oil tank that will meet UL142.**
- Q5. Sec 3.03 software and training. The basis of design is Cummins and Cummins does not offer software to their customers as it is proprietary. Training per spec can be provided.
- A5: If Cummins Power Generator is provided, software not required if proprietary. Section 1.05 allows for alternate manufacturers, Kohler and Caterpillar. If alternate manufacturers provide software, Contractor shall provide with equipment. Training should be provided with any purchased equipment.**

Q6. The drawings will have to be modified for the unit we will be proposing. The generator we are proposing is 18.5' long 4 foot longer than the drawing is showing.

Chris stated that he would like the sides 4 foot wider than the generator. This is not shown on the drawing?

The drawings do not show the actual configuration for this project. The exterior pad mounted equipment is not a MTS as the drawings show. It is essentially a switchboard section with an 800A breaker KIRK keyed in with Panel MP main breaker. The drawings mistakenly have the service feeders shown to the "MTS" and the load leaving the "MTS" to the Panel MP. The "MTS" actually only has one feeder to Panel MP. The service feeder goes directly to Panel MP.

Are addendum drawings going to be sent to show the actual footprint that exists onsite?

A6. See attached revised E101, E501 and E601. The generator pad size will need to be coordinated with the purchased equipment, once submittal approved, as indicated on drawings. That will be on the contractor to coordinate during construction.

All other terms and conditions remain unchanged.


Angela C. Mylechraine, Contracts Administrator
Office of Administrative Services

THIS ADDENDUM IS ACKNOWLEDGED AND IS CONSIDERED A PART OF THE SUBJECT INVITATION FOR BID.

SIGNATURE: _____ DATE: _____

NAME OF FIRM: _____
A SIGNED COPY MAY BE RETURNED PRIOR TO BID OPENING OR MAY ACCOMPANY YOUR BID.



**G A U T H I E R
A L V A R A D O
A S S O C I A T E S**

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PROJECT TITLE

**FAIRFAX COUNTY
PUBLIC SCHOOLS**

**9515 MAIN ST, FAIRFAX, VA
22031**

**WOODSON FOOD
SERVICES
GENERATOR**

REVISIONS

NO.	DATE	DESCRIPTION
1	5/22/24	ADDENDUM #1

GAA PROJECT NO. 735E45

DRAWN BY ADM

CHECKED BY ACO

DATE MAY 14, 2024

DRAWING TITLE

**ELECTRICAL
DEMOLITION AND NEW WORK
POWER PLAN**

PROJECT STATUS

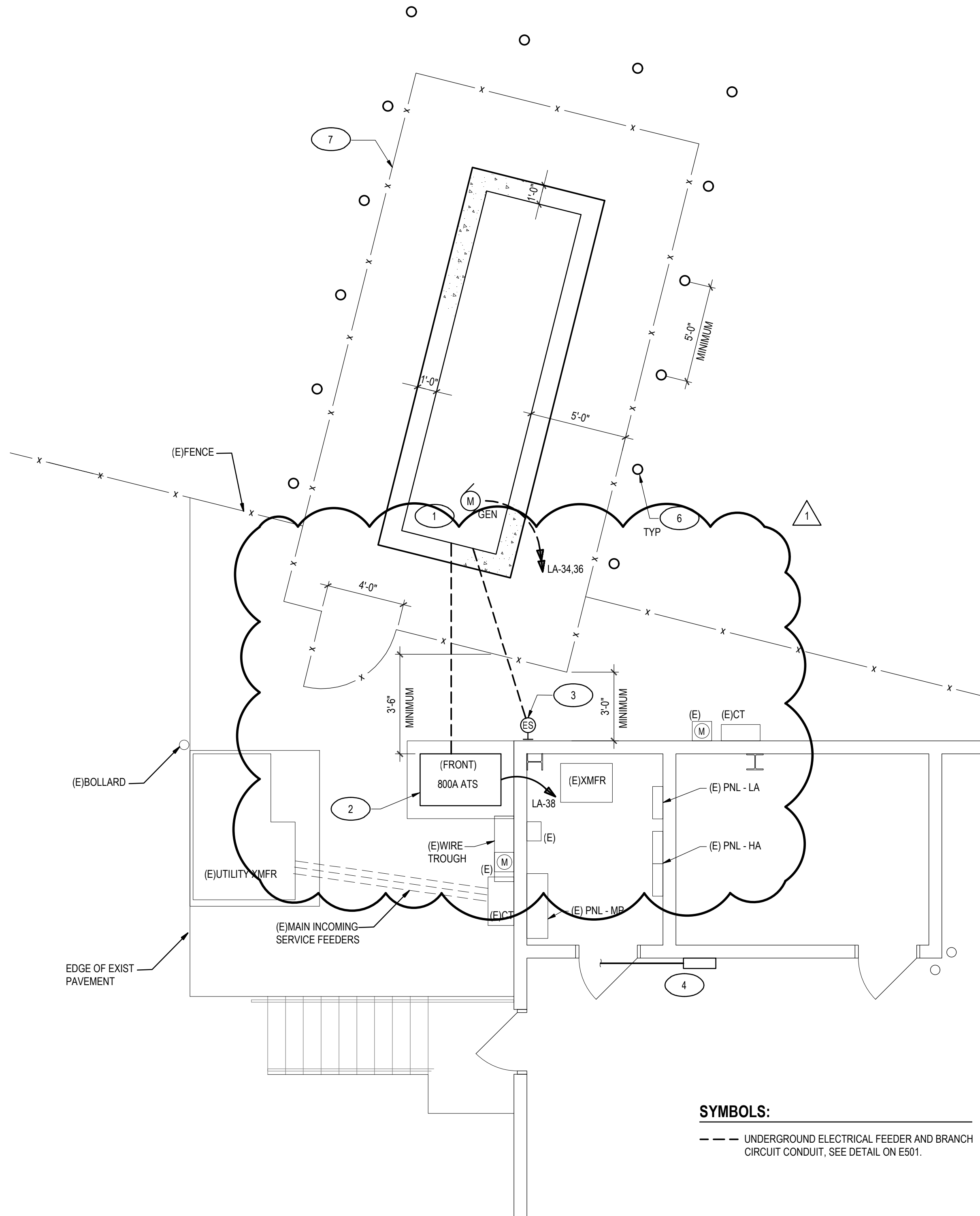
BID/PERMIT DRAWINGS

DRAWING NUMBER

E101

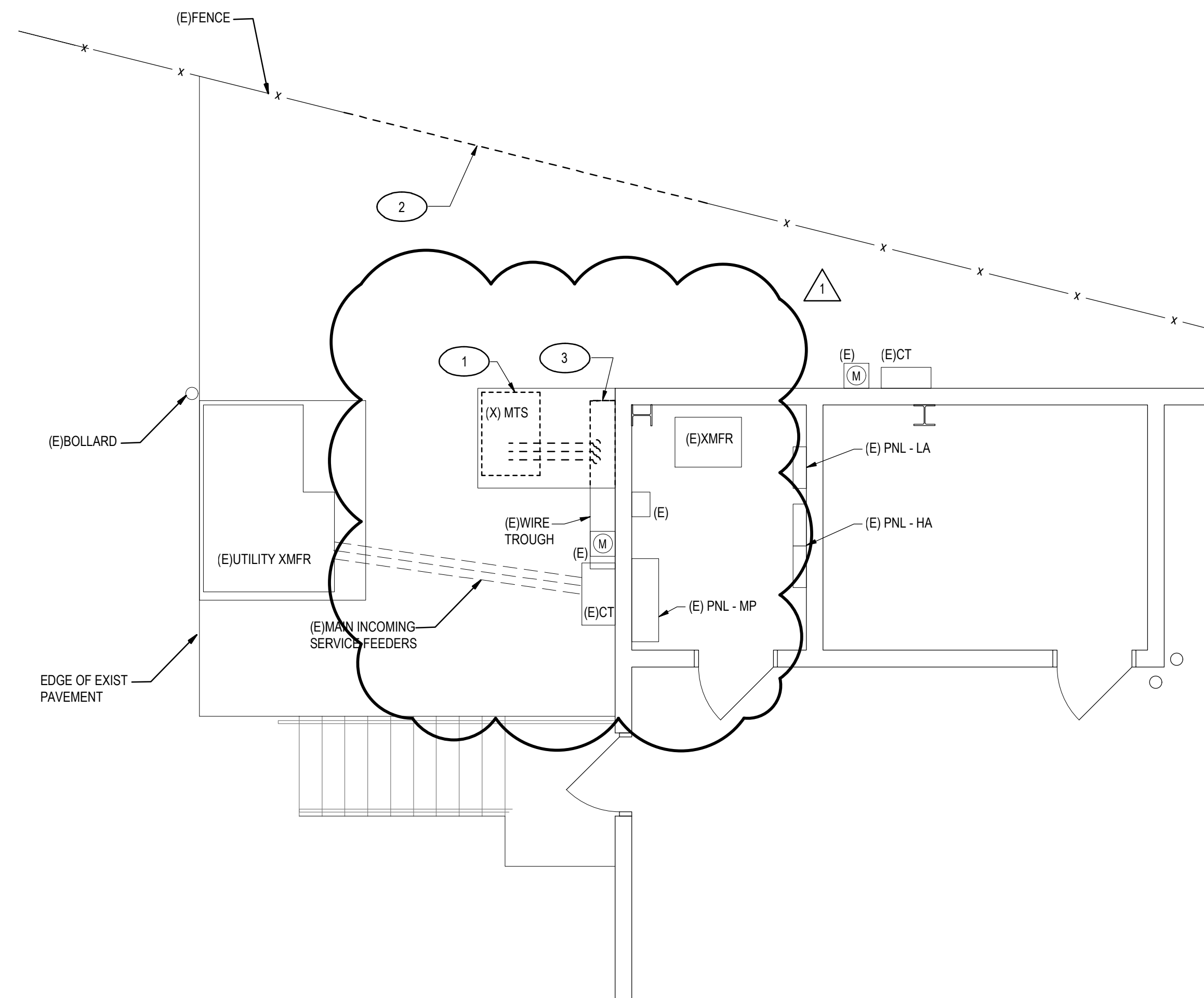
GENERAL NOTES:

- INFORMATION SHOWN ON THIS DRAWING PERTAINING TO EXISTING CONDITIONS HAS BEEN OBTAINED FROM AVAILABLE BUILDING DRAWINGS OR GENERAL FIELD OBSERVATIONS AND MAY NOT INDICATE ACTUAL EXISTING CONDITIONS IN DETAIL OR DIMENSION. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE ACTUAL EXISTING CONDITIONS PRIOR TO FABRICATION OR PERFORMANCE OF ANY WORK. SHOULD CONDITIONS BE DISCOVERED THAT PREVENT EXECUTION OF THE WORK AS INDICATED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT IN WRITING AND AWAIT DIRECTION BEFORE PROCEEDING WITH THE WORK.
- ALL ELECTRICAL ITEMS ARE EXISTING TO REMAIN, UNLESS OTHERWISE NOTED.
- COORDINATE INSTALLATION OF UNDERGROUND ELECTRIC CONDUIT WITH OTHER UTILITIES AS FOLLOWS:
 - MAINTAIN A MINIMUM OF 12" HORIZONTAL AND VERTICAL SEPARATION BETWEEN ELECTRIC/COMMUNICATION AND OTHER UTILITIES. FOR GAS LINE CROSSINGS, RUN ELECTRIC/COMM LINES BELOW GAS LINES. FOR ALL OTHER UTILITY CROSSINGS, RUN ELECTRIC/COMM ABOVE OTHER UTILITY.
 - MAINTAIN A 12" MINIMUM HORIZONTAL AND VERTICAL SEPARATION BETWEEN ELECTRIC AND COMMUNICATION LINES. RUN ELECTRIC BELOW COMMUNICATIONS WHEN THE TWO CROSS EACH OTHER.
- DIRECT BURIED UNDERGROUND CONDUIT BURIAL DEPTH SHALL BE 24" MINIMUM. SEE TYPICAL DETAIL ON E501.
- CONTACT MISS UTILITY AT 811, 1-800-552-7001, OR HTTP://WWW.MISSUTILITYOFVIRGINIA.COM NO LESS THAN 72 HOURS PRIOR TO EXCAVATION AND DO NOT DISTURB THE SOIL UNTIL DIG TICKET HAS BEEN PROCESSED.
- REFER TO SHEET E001 FOR LEGEND, ABBREVIATIONS, AND GENERAL PROJECT NOTES.
- REFER TO E501 FOR DETAILS AND E601 FOR RISER DIAGRAMS AND PANELBOARD SCHEDULE.

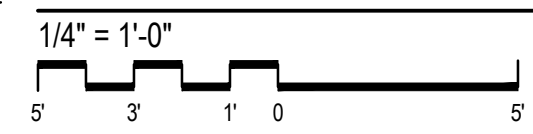


SYMBOLS:

--- UNDERGROUND ELECTRICAL FEEDER AND BRANCH CIRCUIT CONDUIT, SEE DETAIL ON E501.



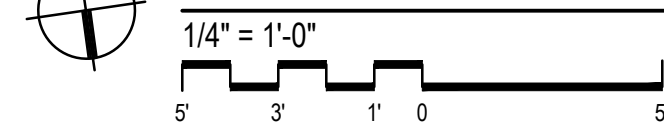
DEMOLITION POWER PLAN



DEMOLITION PLAN NOTES:

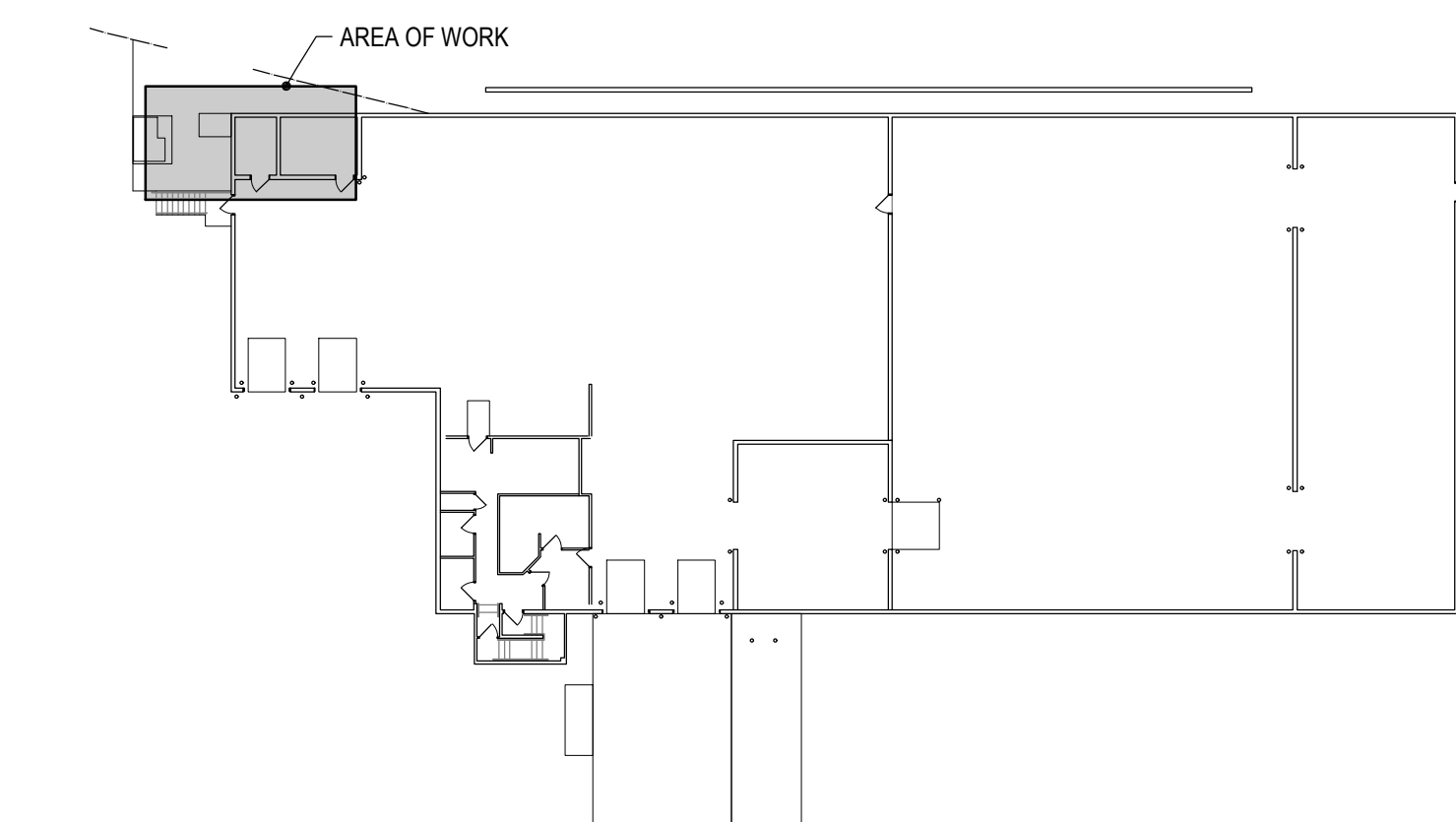
- DISCONNECT AND REMOVE EXISTING MANUAL TRANSFER SWITCH. REMOVE WIRING AND CONDUIT BACK TO PANEL-MP.
- REMOVE PORTION OF EXISTING FENCE.
- REMOVE PORTION OF EXISTING WIRE TROUGH TO ACCOMMODATE NEW EQUIPMENT.

POWER PLAN



PLAN NOTES:

- 250KW/312KVA OPTIONAL/STAND-BY DIESEL GENERATOR, SEE DETAIL 1/E501.
- SERVICE ENTRANCE RATED, 800A, 3-POLE, AUTOMATIC TRANSFER SWITCH (ATS) IN NEMA 3R ENCLOSURE, PAD MOUNTED. SEE RISER DIAGRAM ON E601. PERMANENTLY LABEL EQUIPMENT (NEC 702) PER NFPA 70. COORDINATE STUB-UPS IN EXISTING PAD WITH PURCHASED EQUIPMENT.
- PROVIDE REMOTE MANUAL STOP BUTTON IN WEATHERPROOF ENCLOSURE ON BUILDING WALL PER NFPA 110. COORDINATE LOCATION WITH OWNER.
- WALL MOUNTED REMOTE GENERATOR ANNUNCIATOR PANEL (RGAP). EXTEND CONDUIT FROM GENERATOR WHERE ENTERS THE BUILDING. COORDINATE LOCATION WITH OWNER.
- NOT USED
- BOLLARDS SPACED AT 5'-0" OC MAX, TYPICAL. SEE DETAIL ON E501.
- CHAIN LINK FENCE, SEE DETAIL 10/E501. COORDINATE EXTENT OF FENCING WITH PURCHASED EQUIPMENT. MAINTAIN 5'-0" CLEARANCE MINIMUM BETWEEN GENERATOR AND METAL FENCE. CONNECT TO EXISTING FENCE LINE.



KEY PLAN



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**ELECTRICAL
DETAILS**

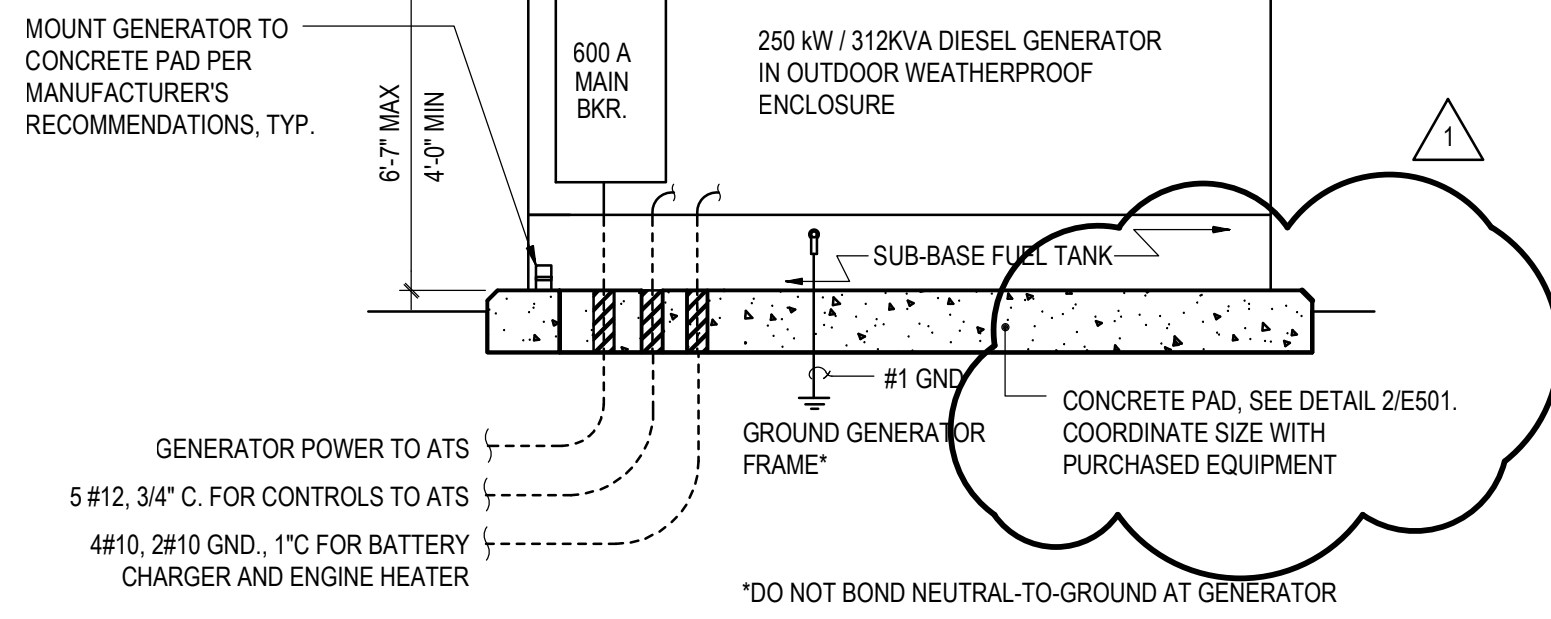
PROJECT STATUS

BID/PERMIT DRAWINGS

DRAWING NUMBER

E501

NOTE: ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDUIT STUB-UPS PER MANUFACTURER'S SUBMITTALS CERTIFIED DRAWINGS.



1 GENERATOR DETAIL

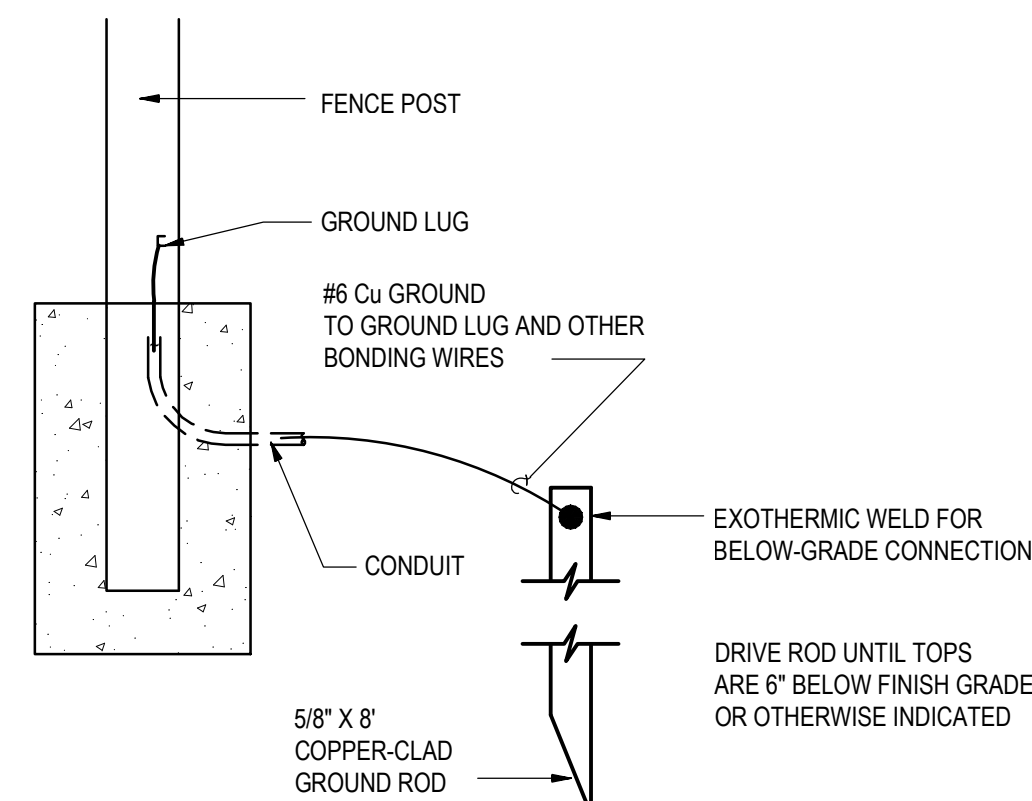
E501 NOT TO SCALE

REMOTE ANNUNCIATOR PANEL, LEVEL 1 (NFPA 110, TABLE 5.6.5.2)				
INDICATOR FUNCTION (AT BATTERY VOLTAGE)	C.V.	S	R.A.	
1. ENGINE OVERCRANK				
2. LOW WATER TEMPERATURE				
3. HIGH ENGINE TEMPERATURE, PRE-ALARM				
4. HIGH ENGINE TEMPERATURE				
5. LOW LUBE OIL PRESSURE				
6. ENGINE OVERSPEED				
7. LOW FUEL MAIN TANK				
8. LOW COOLANT LEVEL				
9. EPS SUPPLYING LOAD				
10. CONTROL SWITCH NOT IN AUTOMATIC POSITION				
11. HIGH BATTERY VOLTAGE				
12. LOW CRANKING VOLTAGE				
13. LOW BATTERY VOLTAGE				
14. BATTERY CHARGER AC FAILURE				
15. LAMP TEST				
16. CONTACTS FOR LOCAL AND REMOTE COMMON ALARM				
17. AUDIBLE ALARM SILENCING SWITCH				
18. REMOTE EMERGENCY STOP				
19. GENERATOR FAULT (TROUBLE)				
20. MAIN GENERATOR CB IN "OFF/TRIP" POSITION*				
21. BUILDING ON NORMAL POWER *				
22. FUEL LEAK				
23. SPACE				
24. SPACE				

KEY:
C.V. = CONTROL PANEL-MOUNTED VISUAL INDICATION
S = SHUTDOWN OF EPS
R.A. = REMOTE ALARM
X = REQUIRED EPS = EMERGENCY POWER SYSTEM
PROVIDE LAMP TEST SWITCH
* NON NFPA REQUIRED ALARM

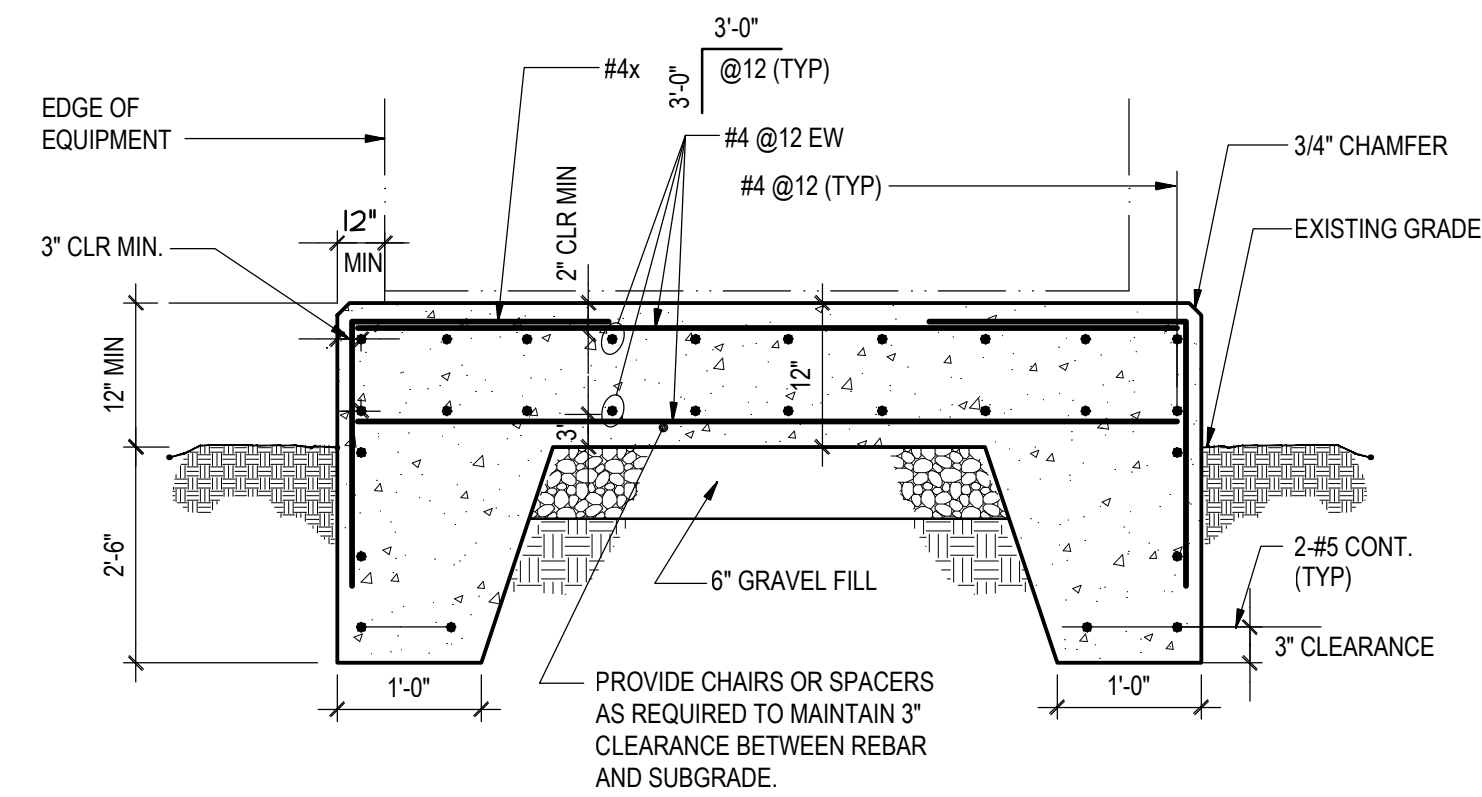
**4 REMOTE GENERATOR
ANNUNCIATOR PANEL (RGAP)**

E501 NOT TO SCALE



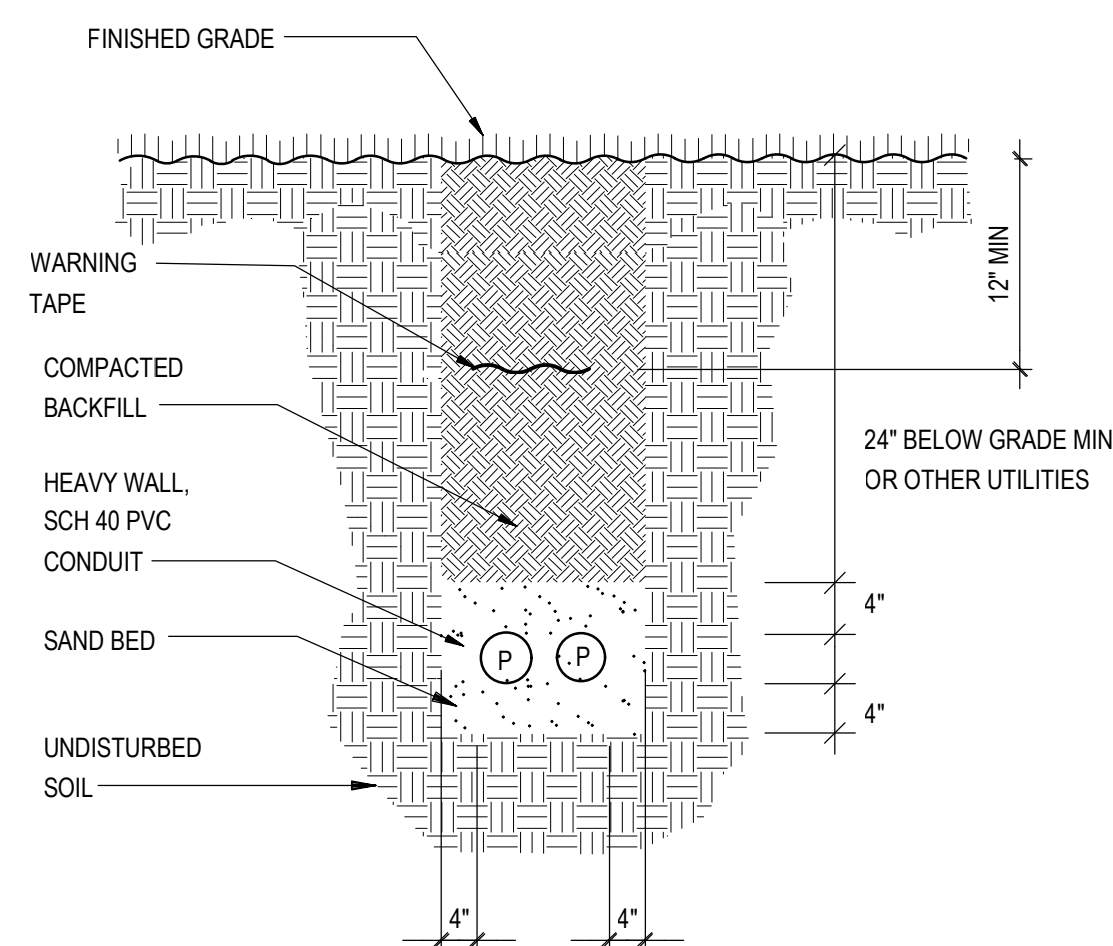
8 TYPICAL FENCE POST GROUNDING DETAIL

E501 NOT TO SCALE



2 GENERATOR CONCRETE PAD DETAIL

E501 NOT TO SCALE



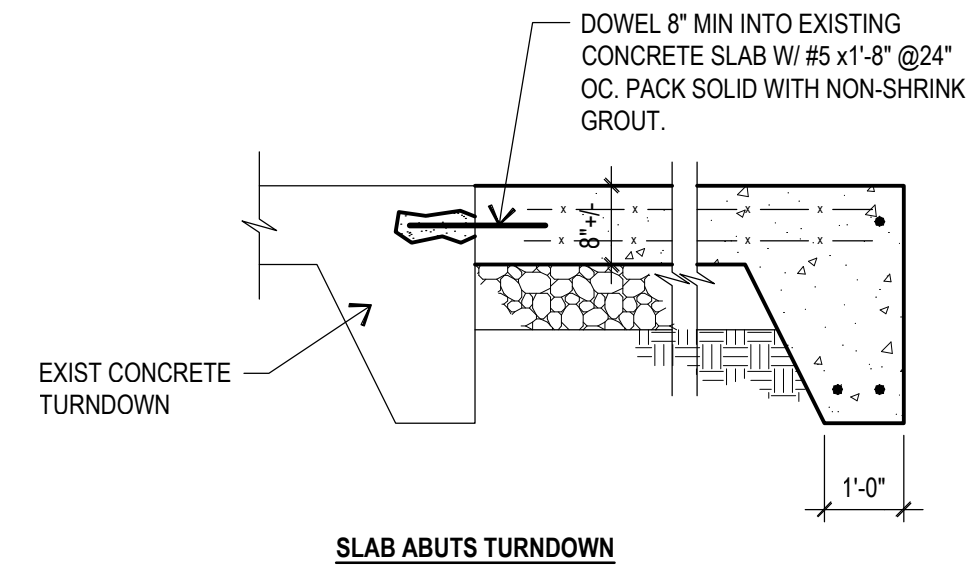
**5 TYPICAL DETAIL FOR UNDERGROUND
ELECTRICAL CONDUIT INSTALLATION**

E501 NOT TO SCALE

CONCRETE PADS NOTES:

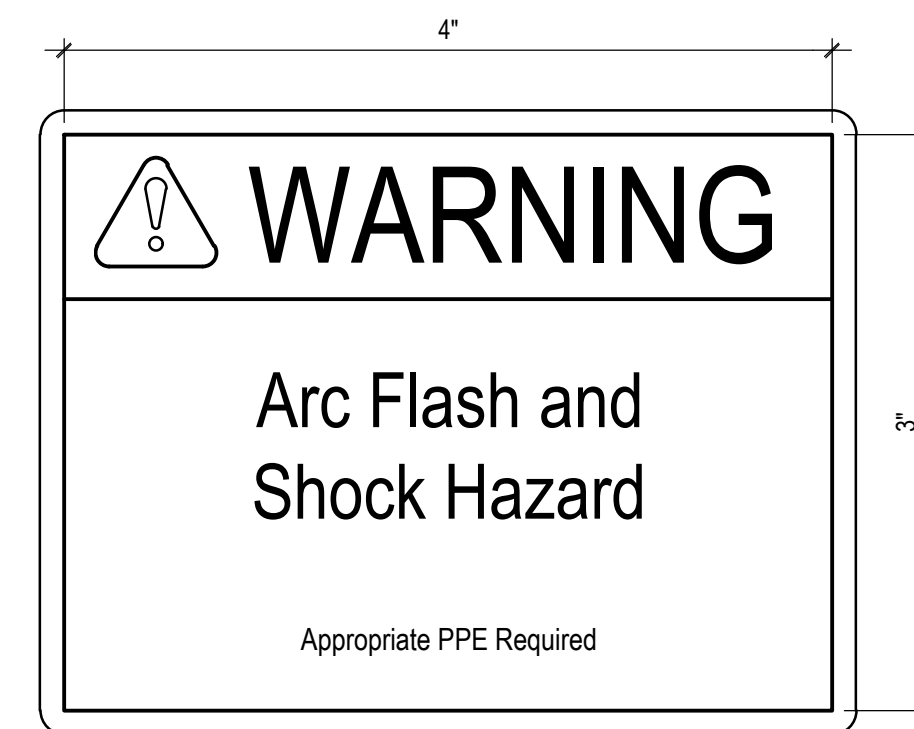
- FOUNDATION:**
- ASSUMED SOIL BEARING VALUE 1500 PSF
 - CONCRETE SLAB-ON-GRADE TO BE POURED OVER 6\"/>
- CONCRETE:**
- CONCRETE STRENGTHS:

ITEM	STRENGTH	WEIGHT
SLABS-ON-GRADE, FOOTINGS	4500 psi	145 pcf
 - MAXIMUM WATER/CEMENT RATIO: 0.45 W/CM
 - CONCRETE MAXIMUM NOMINAL AGGREGATE SIZE SHALL BE 3/4"
 - CONCRETE SHALL BE AIR ENTRAINED TO ACHIEVE AN AIR CONTENT OF 6%
 - REINFORCING BARS: ASTM A-615, GRADE 60.
 - CONCRETE PROTECTION FOR REINFORCING: FOOTINGS = 3"
 - PROVIDE 1/2\"/>



3 TYPICAL CONCRETE PAD EXTENSION

E501 NOT TO SCALE

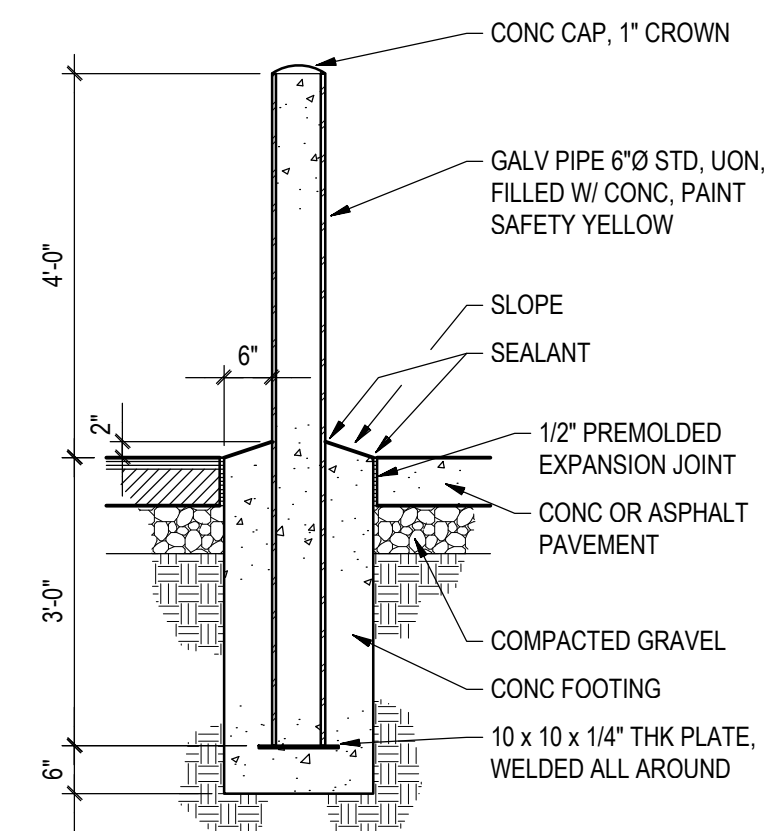


NOTES:

- PROVIDE SELF ADHESIVE VINYL LABEL AFFIX TO ELECTRICAL EQUIPMENT TO BE CLEARLY VISIBLE TO QUALIFIED PERSONS PRIOR TO EXAMINATION, ADJUSTMENT, SERVICING OR MAINTENANCE OF THE EQUIPMENT.
- LABEL FORMAT AND TEXT SHALL BE IN ACCORDANCE TO FIGURE.

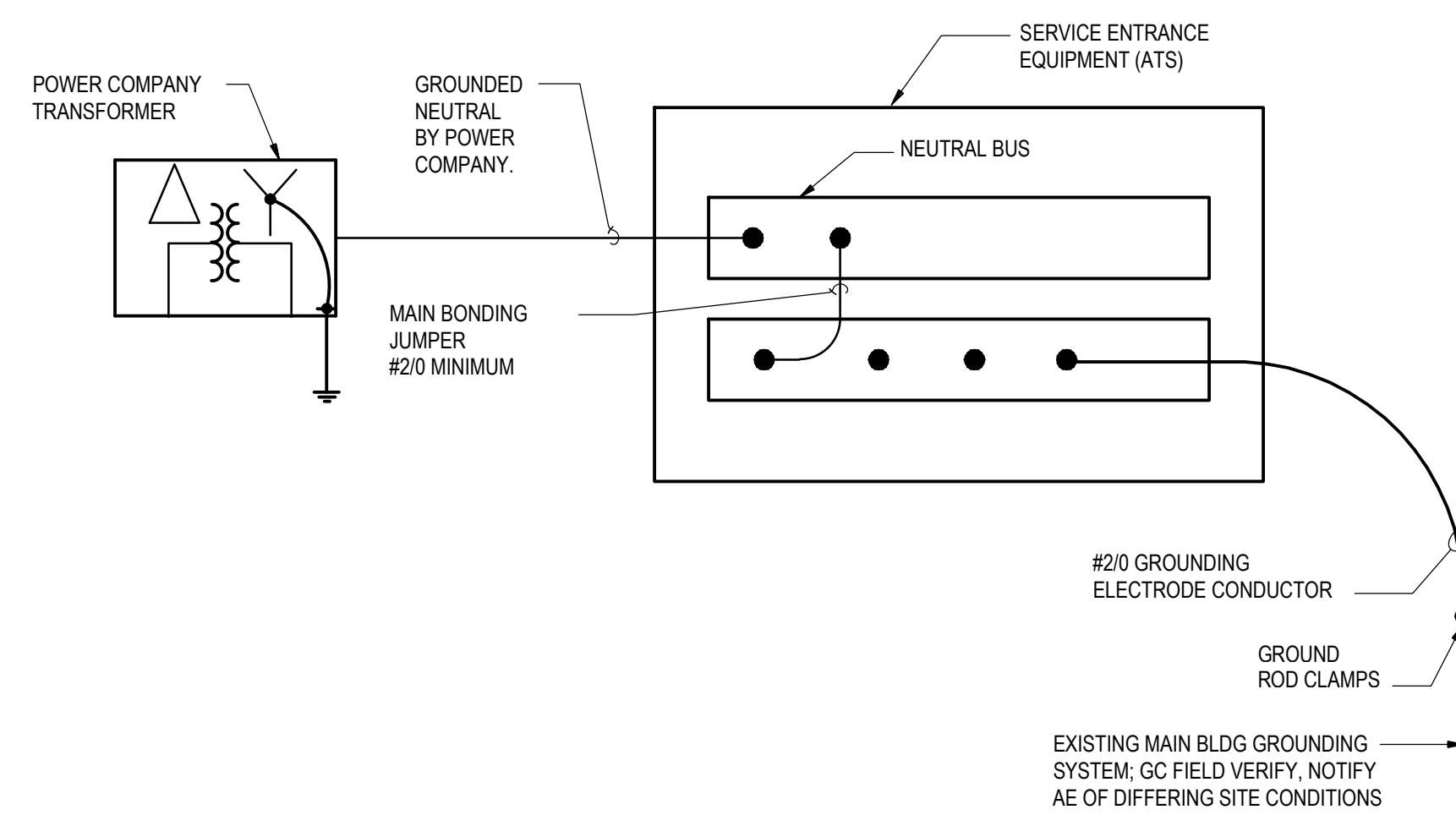
6 TYPICAL ARC FLASH DETAIL

E501 NOT TO SCALE



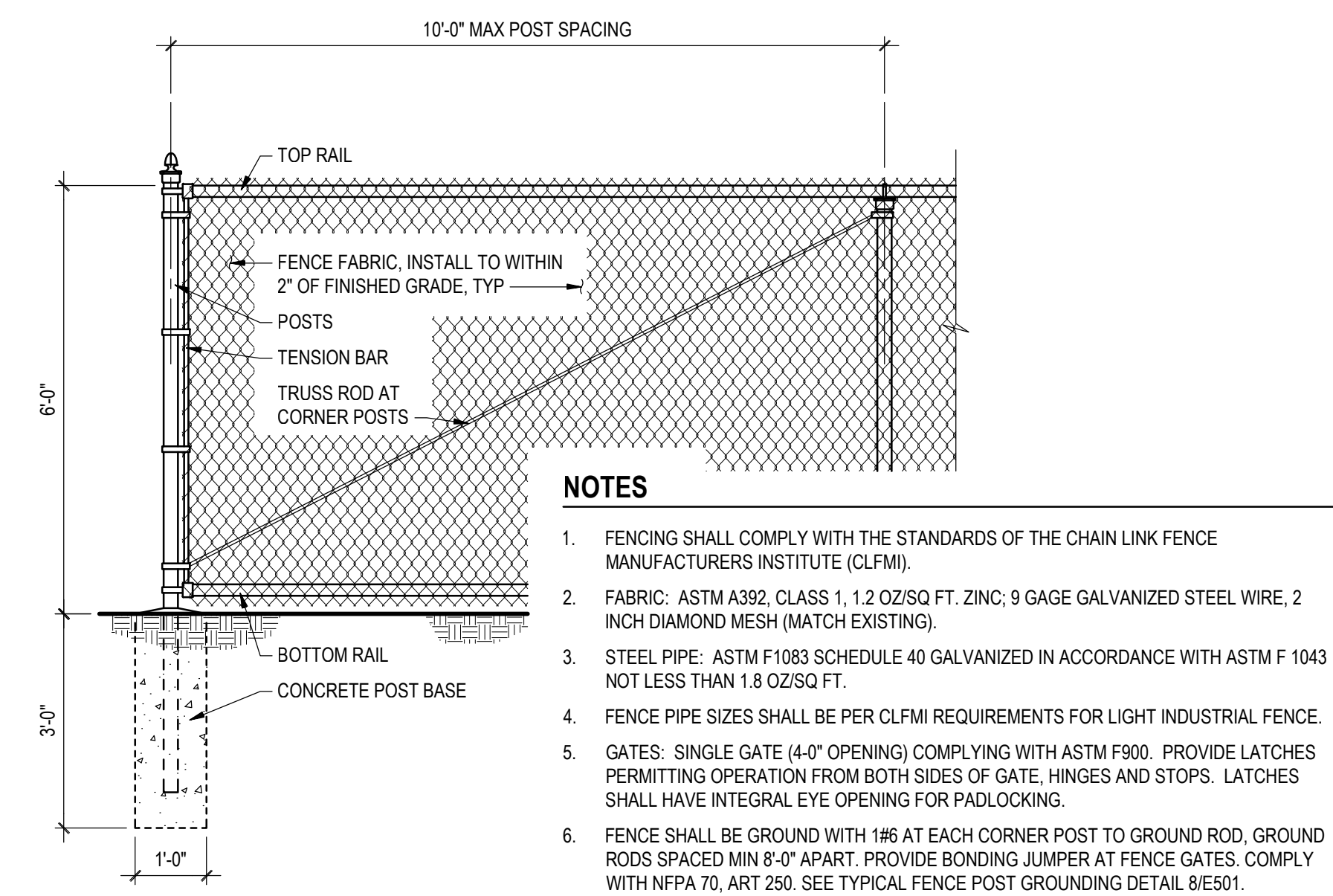
7 EXTERIOR BOLLARD DETAIL

E501 NOT TO SCALE



9 GROUNDING AND BONDING SYSTEM DIAGRAM

E501 NTS



10 TYPICAL CHAIN LINK FENCE DETAIL

E501 1/2\"/>

AD02-05



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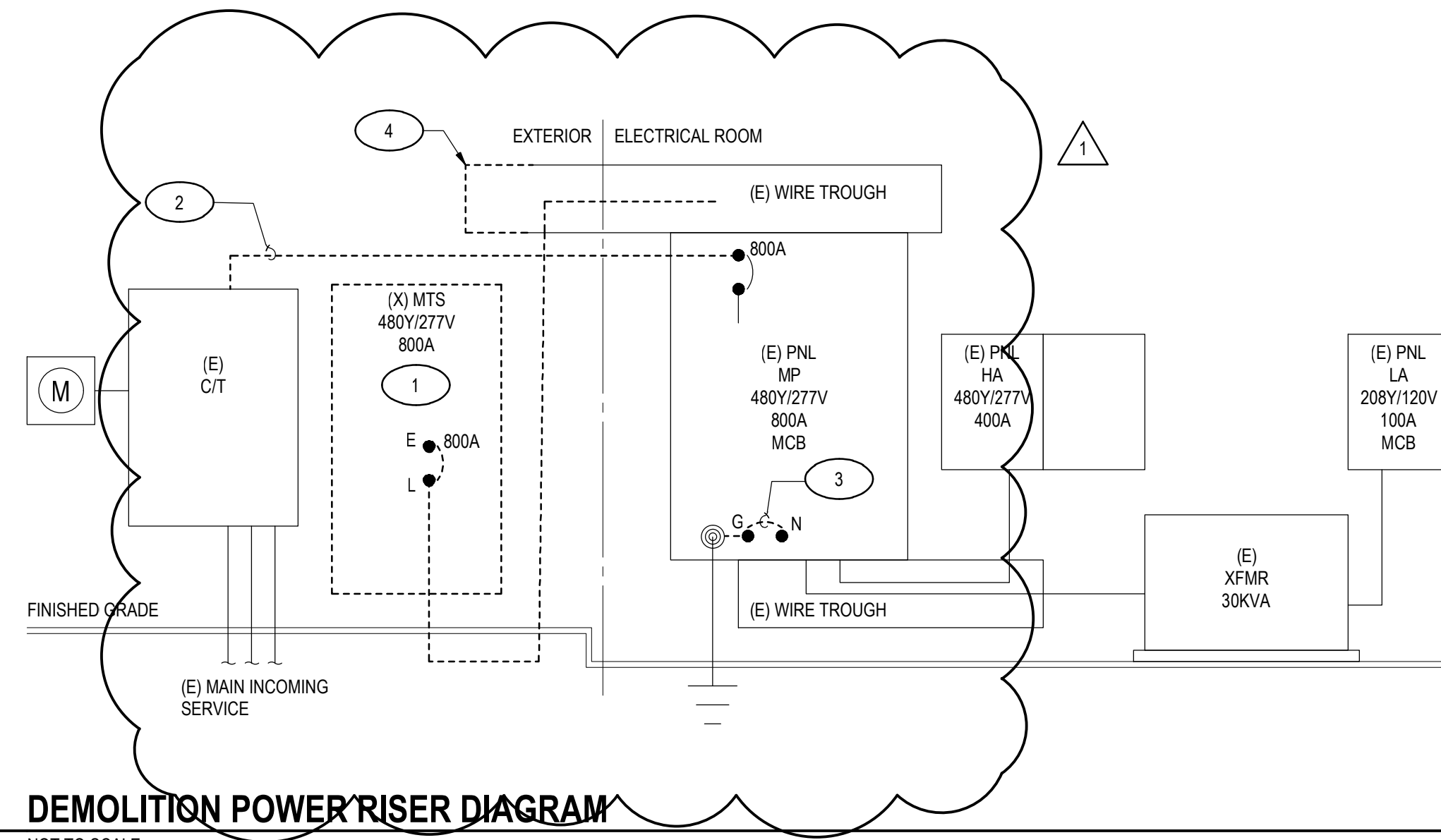
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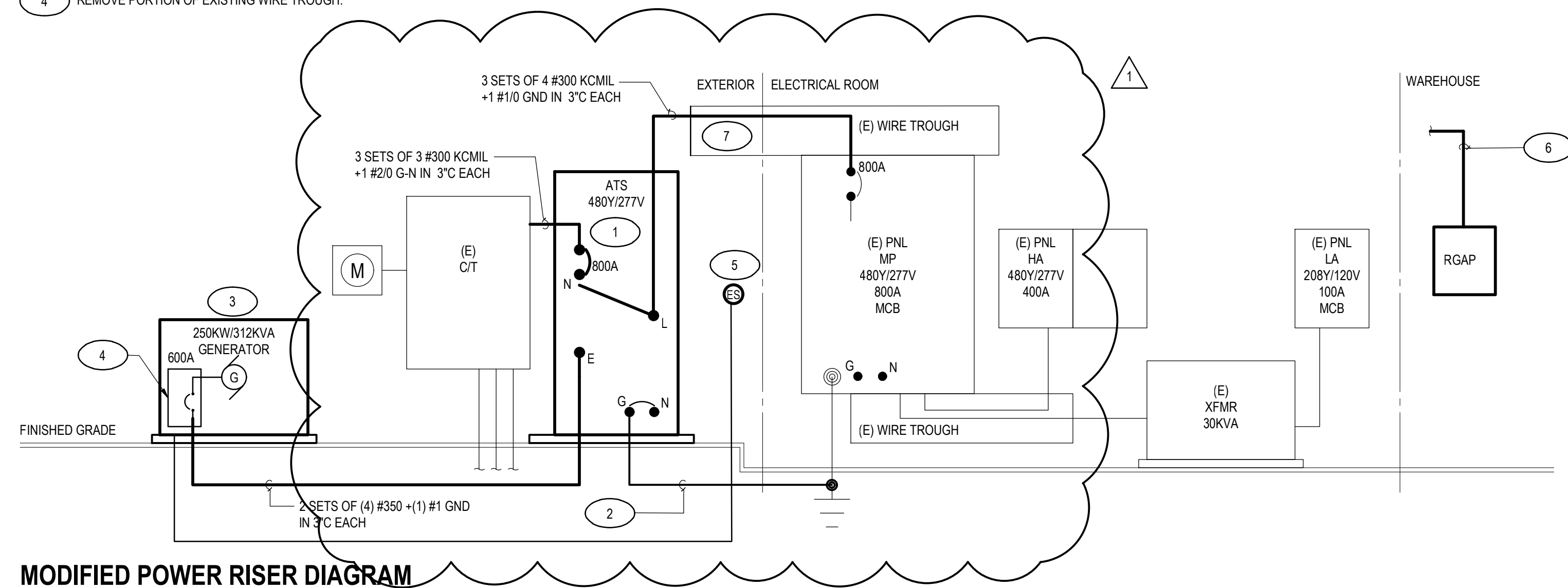
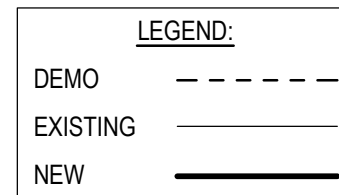


1 DEMOLITION POWER RISER DIAGRAM

NOT TO SCALE

DEMOLITION RISER DIAGRAM NOTES:

- REMOVE EXISTING MANUAL TRANSFER SWITCH. REMOVE WIRING AND CONDUIT BACK TO PANEL-MP.
- DISCONNECT EXISTING INCOMING FEEDERS FROM PANEL MP. REMOVE WIRING AND CONDUIT BACK TO CT. COORDINATE SHUT-DOWN WITH POWER COMPANY (DOMINION ENERGY).
- DISCONNECT NEUTRAL-GROUND BOND AT EXISTING SERVICE ENTRANCE EQUIPMENT (PNL-MP). GC SHALL FIELD VERIFY MAIN BUILDING GROUNDING SYSTEM AND MAINTAIN FOR CONNECTION TO NEW EQUIPMENT. DISCONNECT GROUNDING ELECTRODE CONDUCTOR FROM GROUNDING SYSTEM TO PANEL GND BUS. NOTIFY AE OF DIFFERING SITE CONDITIONS.
- REMOVE PORTION OF EXISTING WIRE TROUGH.



2 MODIFIED POWER RISER DIAGRAM

NOT TO SCALE

MODIFIED RISER DIAGRAM NOTES:

- SERVICE ENTRANCE RATED, 800A, 3-POLE, AUTOMATIC TRANSFER SWITCH (ATS) IN NEMA 3R ENCLOSURE, PAD MOUNTED. SEE DETAIL 9/E501. PERMANENTLY LABEL EQUIPMENT (NEC 702) PER NFPA 70.
- CONNECT TO EXISTING MAIN BUILDING GROUNDING SYSTEM. SEE SYSTEM GROUNDING DETAIL 9/E501. GC SHALL FIELD VERIFY MAIN BUILDING GROUNDING SYSTEM. NOTIFY AE OF DIFFERING SITE CONDITIONS.
- 250KW/312KVA OPTIONAL/STAND-BY GENERATOR. PERMANENTLY LABEL SYSTEM EQUIPMENT (NEC 702) PER NFPA 70. SEE GENERATOR DETAIL 1/E501. **DO NOT** BOND NEUTRAL TO GROUND (NOT A SEPARATELY DERIVED SYSTEM).
- 600A, 600V ENCLOSED CIRCUIT BREAKER IN NEMA 3R ENCLOSURE.
- REMOTE MANUAL STOP BUTTON IN WEATHERPROOF ENCLOSURE ON BUILDING WALL PER NFPA 110.
- PROVIDE (4) 2-PAIR MULTI-CONDUCTOR SHIELDED CABLE (BELDEN OR MANUFACTURER'S RECOMMENDATION) IN 1" CONDUIT FROM REMOTE GENERATOR ANNUNCIATOR PANEL (RGAP) LOCATION TO GENERATOR. COORDINATE LOCATION OF RGAP WITH OWNER.
- MODIFY EXISTING WIRE TROUGH TO ACCOMMODATE NEW EQUIPMENT AND FEEDERS.

GENERAL NOTES:

- GENERATOR SIZED FOR PEAK UTILITY DEMAND LOAD FOR PAST 12 MONTHS OF 156KW (188A ON 480Y/277V, 3-PH, 4W SERVICE)
- CONTRACTOR SHALL VERIFY EXACT EQUIPMENT SIZES PRIOR TO INSTALLATION. EQUIPMENT SHALL BE LAID OUT FOR MOST EFFICIENT USE.
- MOUNTING HEIGHTS FOR ALL EQUIPMENT SHALL BE IN COMPLIANCE WITH REQUIRED HEIGHTS PER NFPA 70.
- ALL OUTSIDE EQUIPMENT SHALL BE NEMA 3R RATED.
- PERMANENTLY LABEL SERVICE ENTRANCE EQUIPMENT PER NFPA 70.
- PERMANENTLY LABEL SYSTEM EQUIPMENT (NEC 702) PER NFPA 70.
- PROVIDE ARC FLASH WARNING LABEL ON ALL SERVICEABLE EQUIPMENT PER NFPA 70. SEE TYPICAL DETAIL E501.

WIRE AND CONDUIT SIZE	LOCATION: ELEC RM		PANEL LA			VOLTAGE: 208Y/120V, 3Ø, 4W		WIRE AND CONDUIT SIZE
	TYPE: GE SERIES A		(EXISTING)			100 A MCB		
CIRCUIT DESCRIPTION	C/B	C/K/T	LOADS (kVA)			C/K/T	C/B	CIRCUIT DESCRIPTION
			Ø A	Ø B	Ø C			
RECEPT LOADING DOCK	20	1				20	1	REFRIGERATOR
RECEPT FORK LIFT	20	3				20	1	RECEPT BREAK ROOM
UNIT HEATER 5, 8, 9	20	5				20	1	RECEPT BREAK ROOM
ICE MACHINE	20	7				20	1	RECEPT FREEZER
LIGHTING DOCK	20	9				20	1	
HEAT TRACE TANK	20	11				20	1	EXISTING
RECEPT BATHROOMS	20	13				20	3	
HANDICAP LIFT	20	15				20	1	HEAT TRACE NEW ADDITION
GARAGE DOOR OPENER	20	17				20	1	RECEPT FORK LIFT
GARAGE DOOR OPENER	20	19				20	1	RECEPT FORK LIFT
RECEPT FORK LIFT	20	21				20	1	HEAT TRACE TANK
SPARE	30	23				20	1	HEAT VALVE BOX
		25				20	1	HEAT VALVE BOX
SPACE		27				20	1	GENERATOR HEATER
		29				20	1	
SPACE		31				30	2	AIR COMPRESSOR SPRINKLER
SPACE		33				30	1	GENERATOR HEATER
SPACE		35		1.0		30	1	GENERATOR BATTERY
SPACE		37			1.0	30	1	ATS HEATER
SPACE		39				38	1	SPACE
SPACE		41				40	1	SPACE
						42	1	SPACE
TOTAL KILOVOLT-AMPERES			1.00	1.00	1.00			
TOTAL CONNECTED LOAD:			3.00 kVA x 1000 ÷ √3 = 208			= 8 A		
LOAD	CONNECTED kVA	DEMAND FACTOR	COMPUTED kVA		REMARKS			
LIGHTING	0.00	1.0	0.00		CONTINUOUS			
RECEPTACLES	0.00	0.00	0.00		NON-CONTINUOUS			
MOTORS	0.00	1.0	0.00		NON-CONTINUOUS			
OTHER	3.00	1.0	3.00		NON-CONTINUOUS			
TOTAL	3.00		3.00					
MINIMUM FEEDER AMPACITY:			3.00 kVA** x 1000 ÷ √3 = 208			= 8 A		

* BASED ON NEC 220-44. (100% OF LOAD UP TO 10 kVA, PLUS 50% OF LOAD ABOVE 10 kVA)
** BASED ON NEC 215, 220, AND 430: (COMPUTED LIGHTING kVA x 125%) + (COMPUTED RECEPTACLE kVA x 100%) + (LARGEST MOTOR kVA x 125%) + (OTHER MOTOR kVA x 100%) + (COMPUTED OTHER LOADS x 100%)

GENERAL PANELBOARD NOTES:

- EXISTING PANELBOARD DIRECTORIES ARE PROVIDED FROM AVAILABLE PANELBOARD SCHEDULES. ACTUAL BRANCH CIRCUIT HOMERUNS MAY VARY. CONTRACTOR SHALL VERIFY EXISTING BRANCH CIRCUITS AS NEEDED. UPDATE PANELBOARD BRANCH CIRCUIT DIRECTORIES TO REFLECT WORK DONE AND PROVIDE ROOM NUMBERS TO ALL CIRCUIT DIRECTORIES MODIFIED AS PART OF THIS PROJECT.
- UPDATE ALL PANELBOARD LABELS MODIFIED AS PART OF THIS PROJECT TO INDICATE POWER SOURCE, VOLTAGE, AND COLOR CODES.

WIRE AND CONDUIT SCHEDULE	
No.	WIRE AND CONDUIT SIZES
1	(2) #10, (1) #10 GND IN 3/4" CONDUIT

SCHEDULE NOTES:

- PROVIDE 3ØA, 1-POLE, BRANCH CIRCUIT BREAKER.

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RISER DIAGRAMS AND
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BID/PERMIT DRAWINGS

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E601