

1 ELECTRICAL SITE PLAN
SCALE: 1/2" = 1'-0"

TABLE 1/E-101 ELECTRICAL LEGEND

	FEEDER OR BRANCH CIRCUIT WIRING RUN CONCEALED IN CEILING OR WALL SPACE ON UNDERSIDE OF SLAB IF NO CEILING. QUANTITY OF CROSS STROKES INDICATES QUANTITY OF CONDUCTORS.
	HOME RUN TO PANEL. STROKES INDICATE QUANTITY OF CONDUCTORS.
	LED OR FLUORESCENT 1' X 4' RECESSED OR SURFACE LUMINAIRE AS PER LUMINAIRE SCHEDULE (OR SPECIFIED IN SPEC.) SYMBOL INTERPRETATION AS FOR ABOVE.
	15A 120V SINGLE, DOUBLE & 3-GANG RESPECTIVELY TUMBLER SWITCH MTD. 48" A.F.F. C/W APPROVED SIZE BOX OR BOXES & BRUSHED ALUMINUM COVERPLATES. SUFFIX 3 INDICATES 3-WAY.
	EMERGENCY LIGHT UNIT MOUNTED AT 7'-6" A.F.F. C/W REMOTE HEAD AS PER LUMINAIRE SCHEDULE.
	NEMA 5-20R TYPE GROUNDED DUPLEX RECEPTACLE AND STAINLESS STEEL COVERPLATE ASSEMBLY AS PER SPEC MTD. 18" A.F.F. WIRED TO 1P-20A BREAKER UNLESS OTHERWISE NOTED. SUFFIX WP INDICATES C/W WEATHERPROOF COVERPLATE SUFFIX GF INDICATES PROTECTED BY GROUND FAULT TYPE BREAKER.
	120V 1Ø ELECTRIC BASEBOARD HEATER (OUELLET OFM SERIES). TOP SUFFIX INDICATES HEATER TYPE, BOTTOM SUFFIX INDICATES HEATER RATING IN KW
	120V RATED ELECTRONIC THERMOSTAT. OUELLET CAT #OTH3000-A
	FIRE ALARM SYSTEM MANUAL PULL INITIATING DEVICE MOUNTED ON WALL AT 48" A.F.F. WIRED TO EXISTING FIRE ALARM PANEL
	FIRE ALARM SYSTEM HORN/STROBE NOTIFICATION DEVICE SURFACE MOUNTED WALL AT 84" A.F.F. WIRED TO EXISTING FIRE ALARM PANEL
	FIRE ALARM SYSTEM SMOKE DETECTOR INITIATING DEVICE SURFACE MOUNTED ON CEILING WIRED TO EXISTING FIRE ALARM PANEL

TABLE 2/E-101 LUMINAIRE SCHEDULE

TYPE A STANPRO "VTE4-L" SERIES CEILING SURFACE MOUNTED VAPORTIGHT LUMINAIRE. CAT #VTE4-LS3-W40K FEATURING 120-277V RATED, 5000 LUMENS, 4000 KELVIN, 80 CRI, 125 LUMENS PER WATT. LED SOURCE TESTED TO THE IES LM79-08 STANDARD. 60,000 HOUR L70 RATED. TESTED TO THE IES TM21-12 STANDARD. IP65 RATED, GASKETED POLYCARBONATE HOUSING, FROSTED POLYCARBONATE LENS, OR APPROVED EQUAL.

EMERGENCY LIGHT UNIT
STANPRO "SLA" SERIES EMERGENCY LIGHTING UNIT CAT#SLA12072-2N3LJAT FEATURING METAL HOUSING, 72W 12V BATTERY, CHARGER, CORD & PLUG, 2-310 LUMEN PAR18 STYLE LED HEADS, AUTOMATIC TEST FEATURE, ETC. OR EQUAL BY BEGHELLI OR THOMAS & BETTS.



2	ISSUED FOR TENDER	JAN 10, 2023
1	ISSUED FOR 100% REVIEW	DEC 22, 2022
REVISIONS		DATE

A	A - Detail No.
B	B - Drawing No.

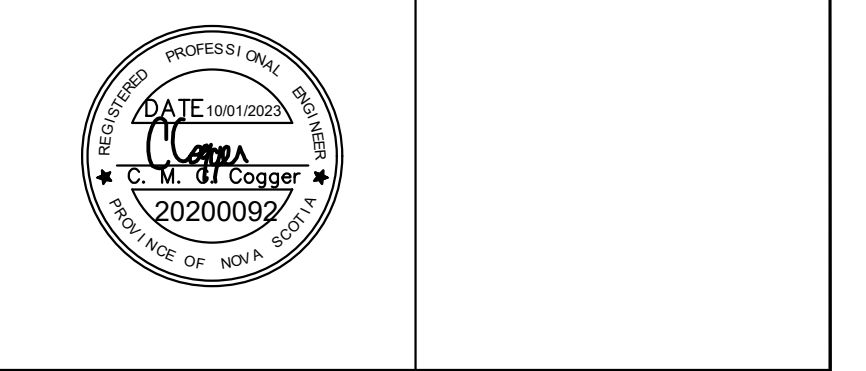
PROJECT
MUNICIPALITY OF THE COUNTY OF ANTIGONISH ELECTRICAL SERVICE REPLACEMENT
LOCATION
ANTIGONISH, NOVA SCOTIA

ELECTRICAL SITE PLAN & DETAILS

SCALE	AS NOTED	DATE	DECEMBER 2022
-------	----------	------	---------------

DRAWN BY	CHECKED	REVIEWED
C.C.	P.J.D.	

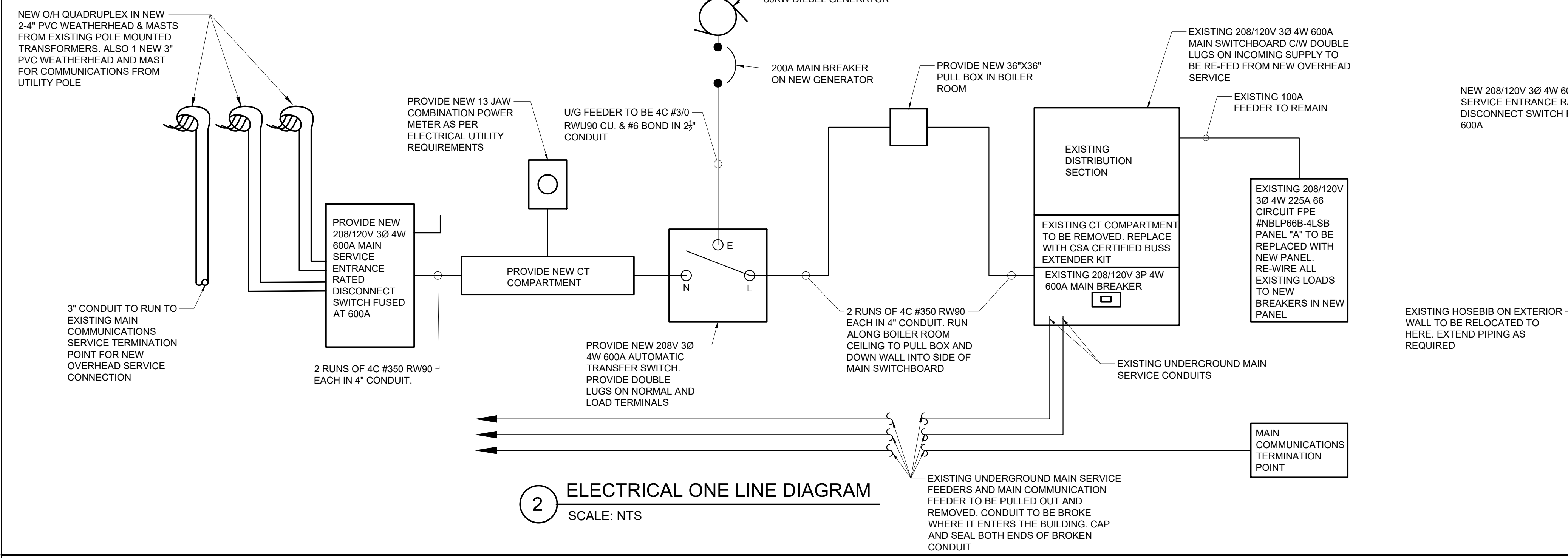
APPROVED	DEPT. APPROVAL
----------	----------------



DEPT. JOB No.	DRAWING No.
	E-101

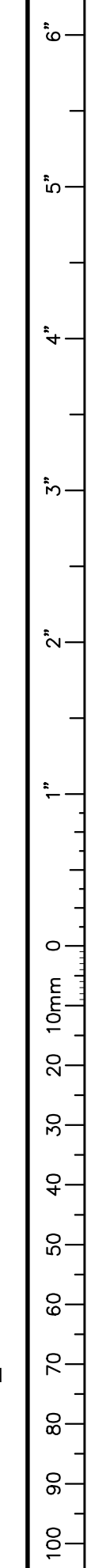
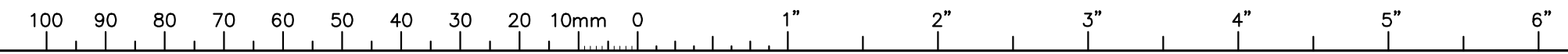
CONSULTANT'S NO.
2021-2794

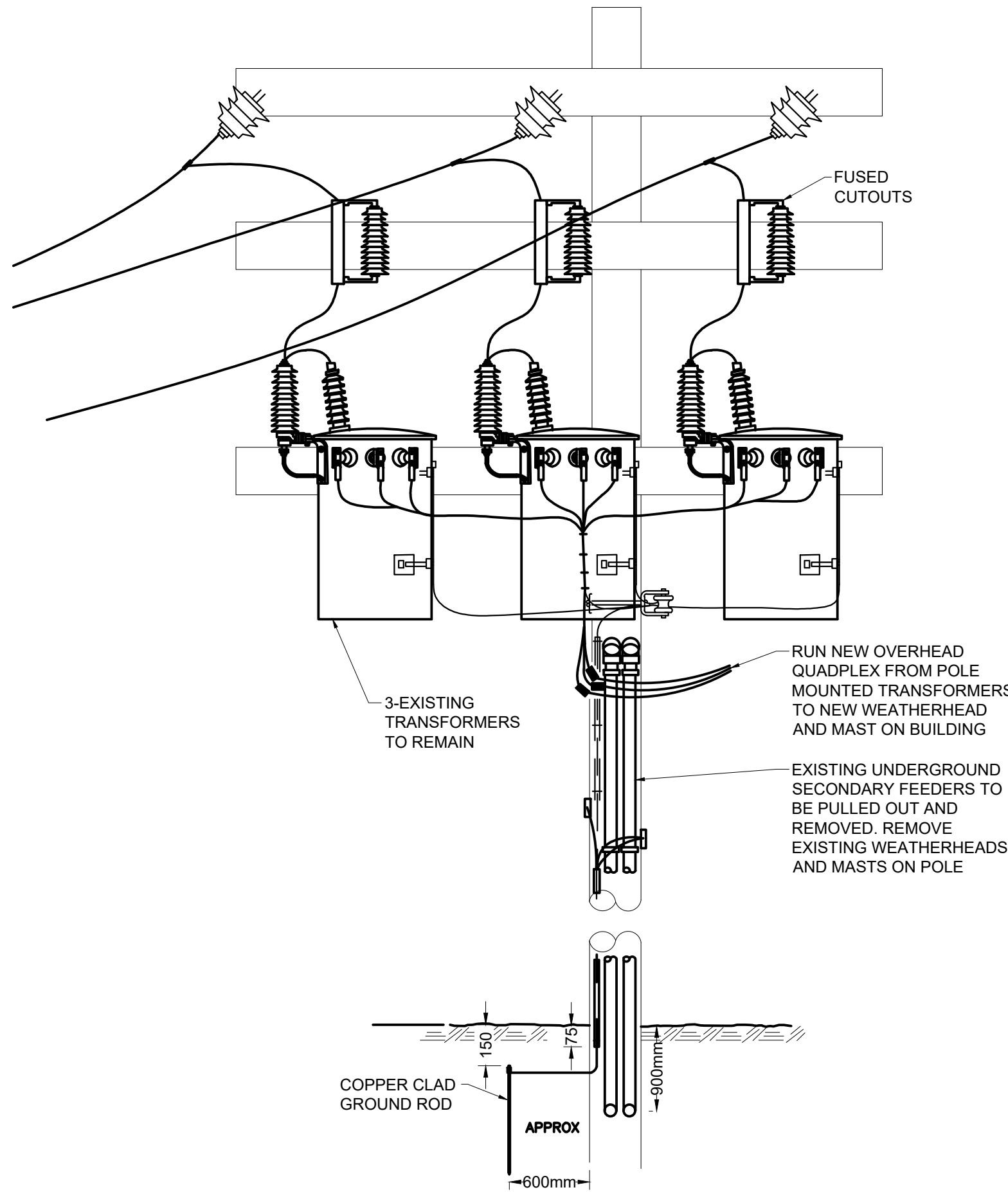
TENDER NO.



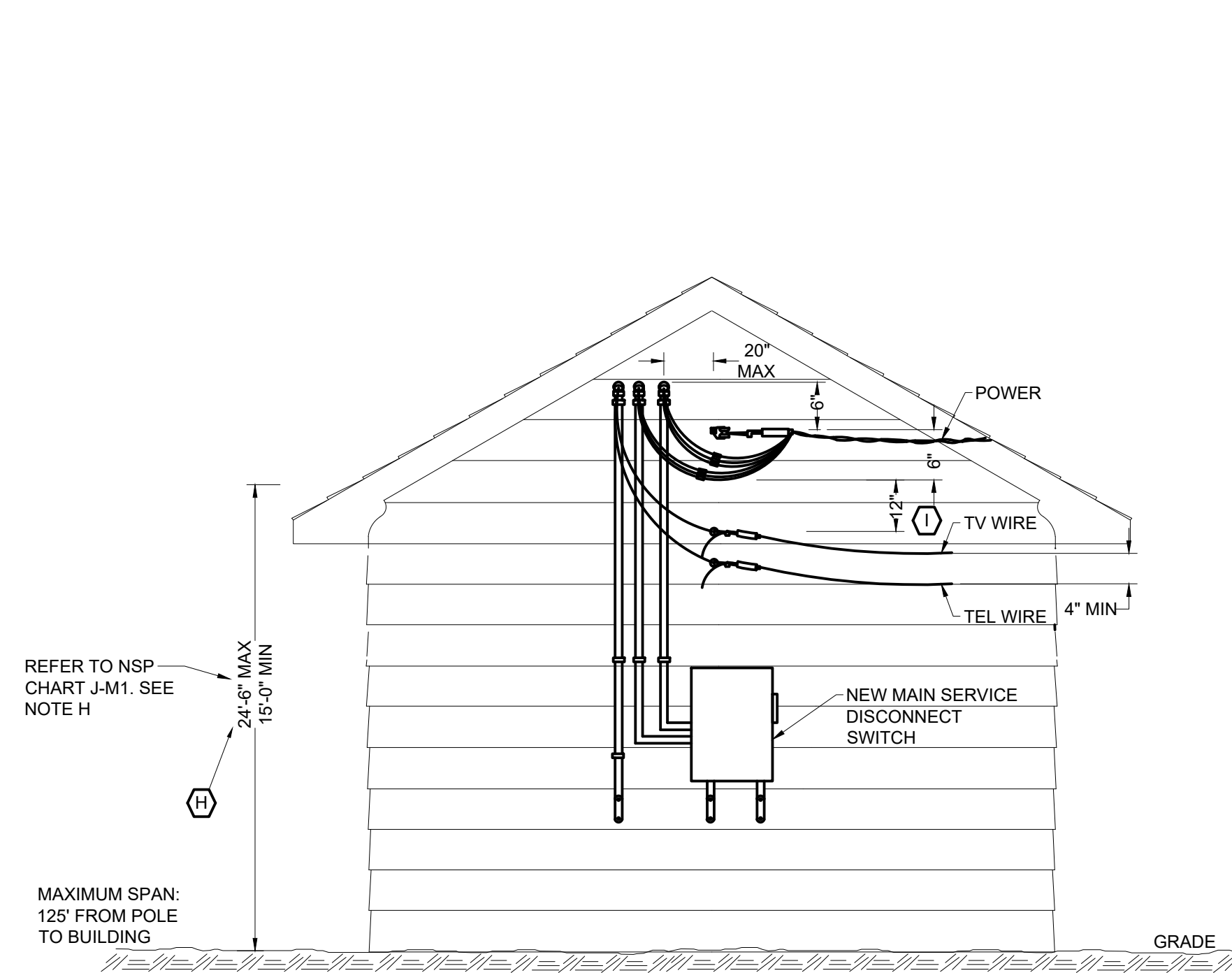
2 ELECTRICAL ONE LINE DIAGRAM
SCALE: NTS

3 NEW ELECTRICAL ROOM LAYOUT
SCALE: 1/2" = 1'-0"





1 UTILITY POLE DETAIL
SCALE: NTS

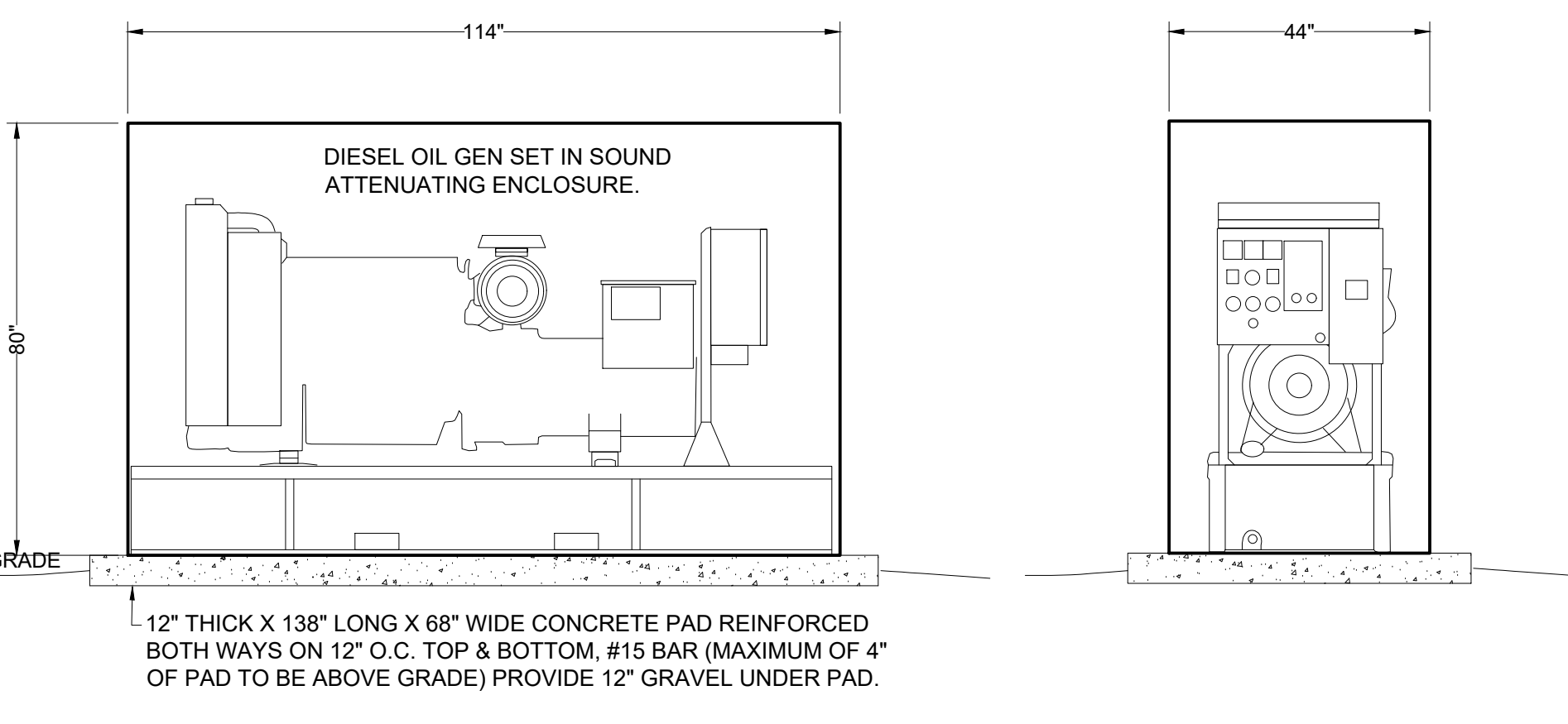


2 ELECTRICAL SERVICE ENTRANCE CONNECTION DETAIL
SCALE: NTS

- NOTES:
- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING THE POWER SERVICE ATTACHMENT DEVICE AT THE TIME OF CONSTRUCTION AND ENSURING THE ATTACHMENT WILL SUPPORT A HORIZONTAL LOAD OF 3kN.
 - B. MATERIAL REQUIRED FOR POWER SERVICE ATTACHMENT SHALL BE SUPPLIED BY NSP.
 - C. CUSTOMER'S SERVICE ENTRANCE CONDUCTORS SHALL EACH EXTEND NOT LESS THAN 30" BEYOND THE SERVICE HEAD.
 - D. SERVICE ATTACHMENT SHALL BE INSTALLED A MINIMUM OF 6" BELOW THE SERVICE HEAD.
 - E. DRIP LOOP ON SERVICE CONDUCTORS TO BE LEFT AT THE POLE AND HOUSE CONNECTIONS.
 - F. REFER TO NSP CHART SS-1M FOR RECOMMENDED SIZES OF QUADPLEX CABLE TO BE USED.
 - G. ANCHORING AND GUYING TO BE IN ACCORDANCE WITH NSP SECTION "A" REQUIREMENTS.
 - H. AT THE DISCRETION OF NSP ENGINEERING, OR THEIR REPRESENTATIVE, AND TELEPHONE UTILITY DISTRICT MANAGER (O.P.E.), OR THEIR REPRESENTATIVE, MINIMUM SERVICE ATTACHMENT HEIGHT MAY BE INCREASED OR DECREASED TO MEET CLEARANCE REQUIREMENTS UNDER MAXIMUM SAG CONDITIONS AS SPECIFIED IN NSP CHART J-1M.
 - I. COMMUNICATION DROP WIRE SHALL BE ATTACHED WITH MINIMUM CLEARANCES AS SHOWN. IF SUSPENSION STRAND IS USED, THE CLEARANCE BETWEEN POWER CABLE DRIP LOOP AND TELEPHONE UTILITY STRAND SHALL BE INCREASED TO 40".
 - J. THE SERVICE HEADS SHALL BE MOUNTED AT A MINIMUM HEIGHT COORDINATED WITH NSP SO THAT THE SAG IN THE OVERHEAD LINE REMAINS A MINIMUM OVERHEAD CLEARANCE FROM MAINTENANCE SHED THAT IS LOCATED MID SPAN.

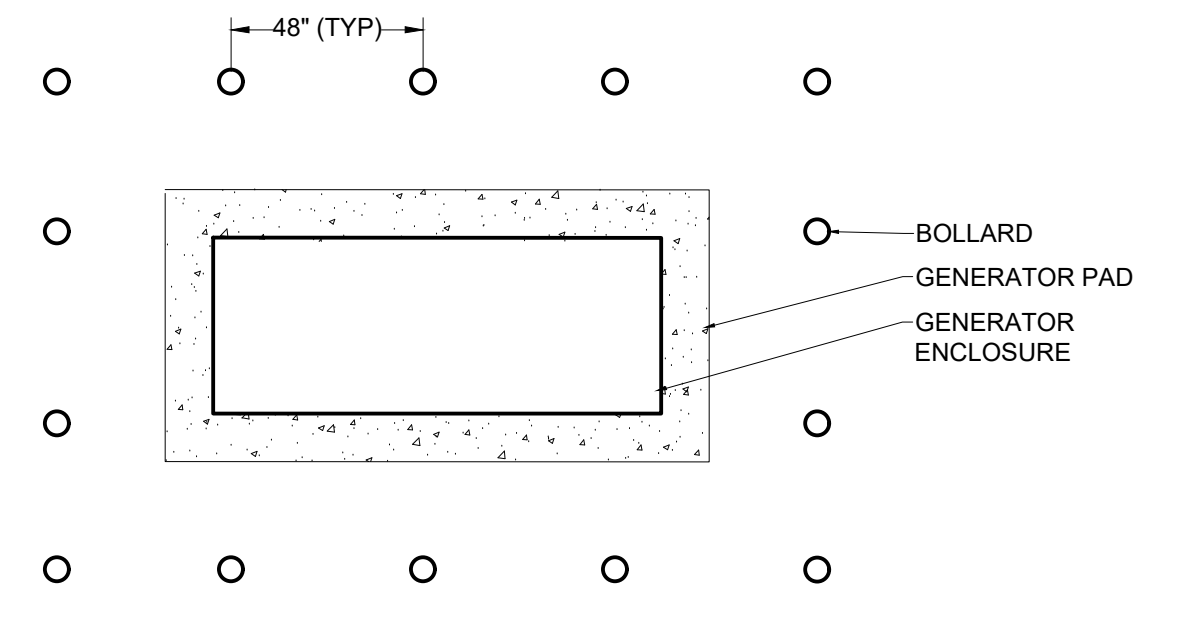
TABLE 1E-102 PANEL "A" LOCATION: ELECTRICAL ROOM FEED FROM: MAIN SWBD		VOLTS - 208/120 PHASE - 3 WIRE - 4		MOUNTING - SURFACE MINS - 25A ENTER AT - TOP	
NO.	DESCRIPTION	NO.	BKR	PHASE	ROOM
1	EXISTING	15A	15A	2	EXISTING
2	EXISTING	15A	15A	4	EXISTING
3	EXISTING	15A	15A	6	EXISTING
4	EXISTING	15A	15A	8	EXISTING
5	EXISTING	15A	15A	10	EXISTING
6	EXISTING	15A	15A	12	EXISTING
7	EXISTING	15A	15A	14	EXISTING
8	EXISTING	15A	15A	16	EXISTING
9	EXISTING	15A	15A	18	EXISTING
10	EXISTING	15A	15A	20	EXISTING
11	EXISTING	15A	15A	22	EXISTING
12	EXISTING	15A	15A	24	EXISTING
13	EXISTING	15A	15A	26	EXISTING
14	EXISTING	15A	15A	28	EXISTING
15	EXISTING	15A	15A	30	EXISTING
16	EXISTING	15A	15A	32	EXISTING
17	EXISTING	15A	15A	34	EXISTING
18	EXISTING	15A	15A	36	EXISTING
19	EXISTING	15A	15A	38	EXISTING
20	EXISTING	15A	15A	40	EXISTING
21	EXISTING	15A	15A	42	EXISTING
22	EXISTING	15A	15A	44	EXISTING
23	EXISTING	15A	15A	46	EXISTING
24	EXISTING	15A	15A	48	EXISTING
25	EXISTING	15A	15A	50	EXISTING
26	EXISTING	15A	15A	52	EXISTING
27	EXISTING	15A	15A	54	EXISTING
28	EXISTING	15A	15A	56	EXISTING
29	EXISTING	15A	15A	58	EXISTING
30	EXISTING	15A	15A	60	EXISTING
31	EXISTING	15A	15A	62	EXISTING
32	EXISTING	15A	15A	64	EXISTING
33	EXISTING	15A	15A	66	EXISTING
34	EXISTING	15A	15A	68	EXISTING
35	EXISTING	15A	15A	70	EXISTING
36	EXISTING	15A	15A	72	EXISTING
37	EXISTING	15A	15A	74	EXISTING
38	EXISTING	15A	15A	76	EXISTING
39	EXISTING	15A	15A	78	EXISTING
40	EXISTING	15A	15A	80	EXISTING
41	EXISTING	15A	15A	82	EXISTING
42	EXISTING	15A	15A	84	EXISTING
43	EXISTING	15A	15A	86	EXISTING
44	EXISTING	15A	15A	88	EXISTING
45	EXISTING	15A	15A	90	EXISTING
46	EXISTING	15A	15A	92	EXISTING
47	EXISTING	15A	15A	94	EXISTING
48	EXISTING	15A	15A	96	EXISTING
49	EXISTING	15A	15A	98	EXISTING
50	EXISTING	15A	15A	100	EXISTING
51	EXISTING	15A	15A	102	EXISTING
52	EXISTING	15A	15A	104	EXISTING
53	EXISTING	15A	15A	106	EXISTING
54	EXISTING	15A	15A	108	EXISTING
55	EXISTING	15A	15A	110	EXISTING
56	EXISTING	15A	15A	112	EXISTING
57	EXISTING	15A	15A	114	EXISTING
58	EXISTING	15A	15A	116	EXISTING
59	EXISTING	15A	15A	118	EXISTING
60	EXISTING	15A	15A	120	EXISTING
61	GEN BATTERY CHARGER	60	20A	60	GEN BLOCK HEATER
62	REPLIGHT - ELEC RM	60	15A	15A	ELEC HEAT - ELEC RM
63		71			
64		72			
TOTAL LOAD - kW		TOTAL A		17350	
FEEDER - EXISTING 100A FEEDER TO BE RECONNECTED TO NEW PANEL		TOTAL B		17700	
		TOTAL C		18850	

NOTE: PANEL "A" IS AN EXISTING 208/120V 3Ø 4W 225kVA CIR #15A-100-4558 PANEL. IT IS TO BE REPLACED WITH THIS NEW PANEL. ALL EXISTING LOADS TO BE REWIRED TO THIS NEW PANEL. INDICATED NEW LOADS TO BE WIRED TO THIS PANEL.

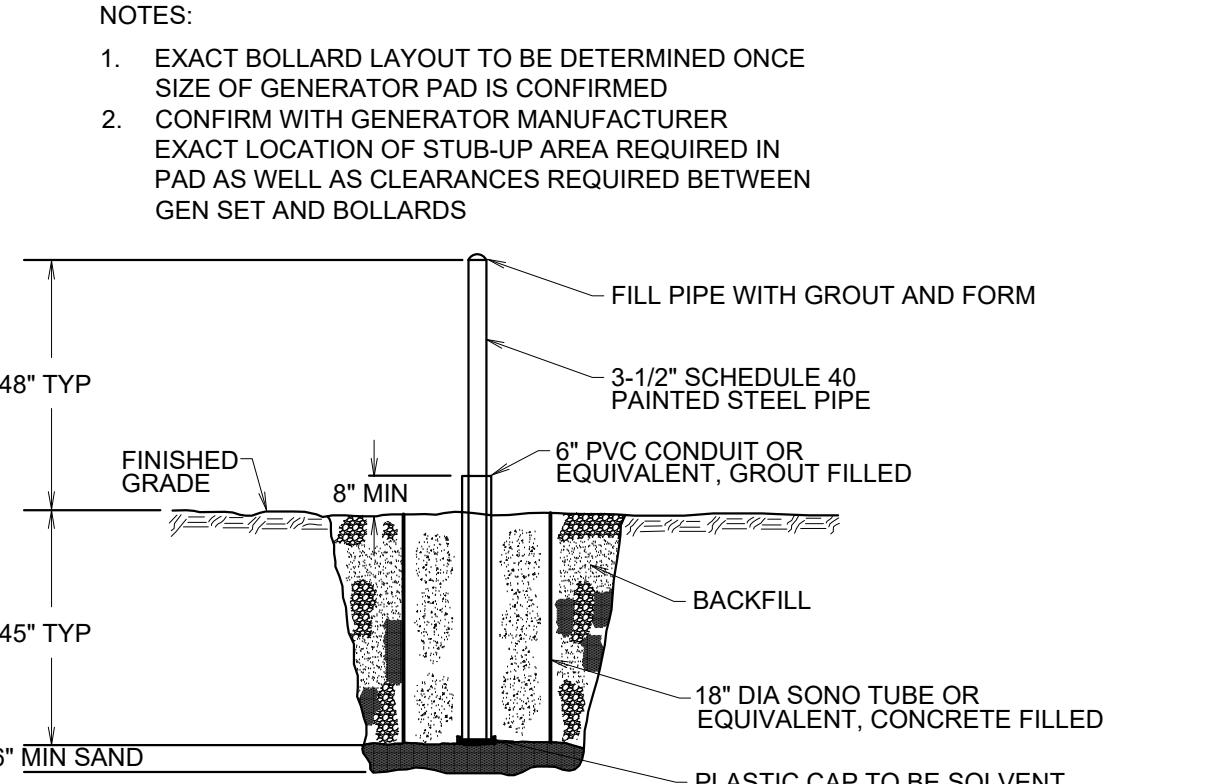


3 GENERATOR PAD DETAIL
SCALE: NTS

- NOTES:
- THE CONTRACTOR IS TO INSTALL NEW GEN SET ON NEW PAD.
 - VERIFY EXACT DIMENSION OF GEN. SET WITH SUPPLIER TO ENSURE PAD SIZE IS ADEQUATE
 - PROVIDE NEW FEEDER TO ATS
 - PROVIDE AN AUXILIARY CONTACT ON THE ATS AND WIRING TO THE FIRE ALARM PANEL TO INDICATE THAT THE BUILDING IS ON EMERGENCY POWER.
 - THE CONTRACTORS SHALL REMOVE SOD AND ORGANIC FILL AND PROVIDE 12" OF STONE AND THEN 6" OF CLASS "A" GRAVEL ON A LEVEL SURFACE. PROVIDE A 12" THICK CONCRETE PAD AT 4" ABOVE GRADE LEVEL TO STOP OF PAD. PAD TO HAVE REINFORCING STEEL AT 12" ON CENTRE OF BOTH TOP AND BOTTOM. STEEL TO BE #15 REBAR TIED TOGETHER. VERIFY EXACT SIZE OF GENERATOR HOUSING AND BUILD PAD 12" GREATER ALL AROUND
 - PROVIDE FUEL FOR TESTING AND A FULL TANK AT COMPLETION OF PROJECT.
 - GENERATOR PAD SHALL ALLOW FOR EASE OF ACCESS AND SERVICING. SHALL ADHERE TO ANY MUNICIPAL BYLAWS. MAINTAIN ANY MINIMUM DISTANCE RESTRICTION FROM PROPERTY LINES AND ACCESS, AND SHALL NOT BE PLACED OVER ANY UNDERGROUND UTILITIES
 - CONFIRM WITH GENERATOR MANUFACTURER EXACT LOCATION OF STUB-UP AREA REQUIRED IN PAD



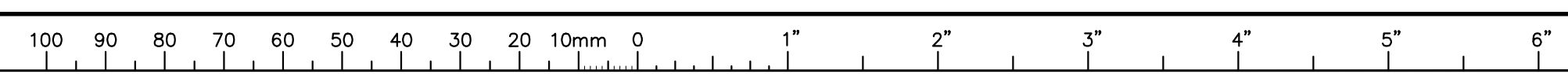
4 GENERATOR CONNECTIONS DETAIL
SCALE: NTS



5 GENERATOR SERVICE TRENCH DETAIL
SCALE: NTS

- NOTES:
- EXACT BOLLARD LAYOUT TO BE DETERMINED ONCE SIZE OF GENERATOR PAD IS CONFIRMED
 - CONFIRM WITH GENERATOR MANUFACTURER EXACT LOCATION OF STUB-UP AREA REQUIRED IN PAD AS WELL AS CLEARANCES REQUIRED BETWEEN GEN SET AND BOLLARDS

6 GENERATOR BOLLARD DETAIL
SCALE: NTS



2	ISSUED FOR TENDER	JAN 10, 2023
1	ISSUED FOR 100% REVIEW	DEC 22, 2022

REVISIONS	DATE
A	A - Detail No.
B	B - Drawing No.

PROJECT
MUNICIPALITY OF THE COUNTY OF ANTIGONISH
ELECTRICAL SERVICE REPLACEMENT
LOCATION
ANTIGONISH, NOVA SCOTIA

DRAWING
ELECTRICAL SERVICE AND GENERATOR DETAILS

SCALE	DATE
AS NOTED	DECEMBER 2022

DRAWN BY	CHECKED	REVIEWED
C.C.	P.J.D.	

APPROVED	DEPT. APPROVAL
----------	----------------

SEAL

DEPT. JOB No.	DRAWING No.
-	E-102

CONSULTANT'S NO.	
2021-2794	

TENDER NO.	
------------	--