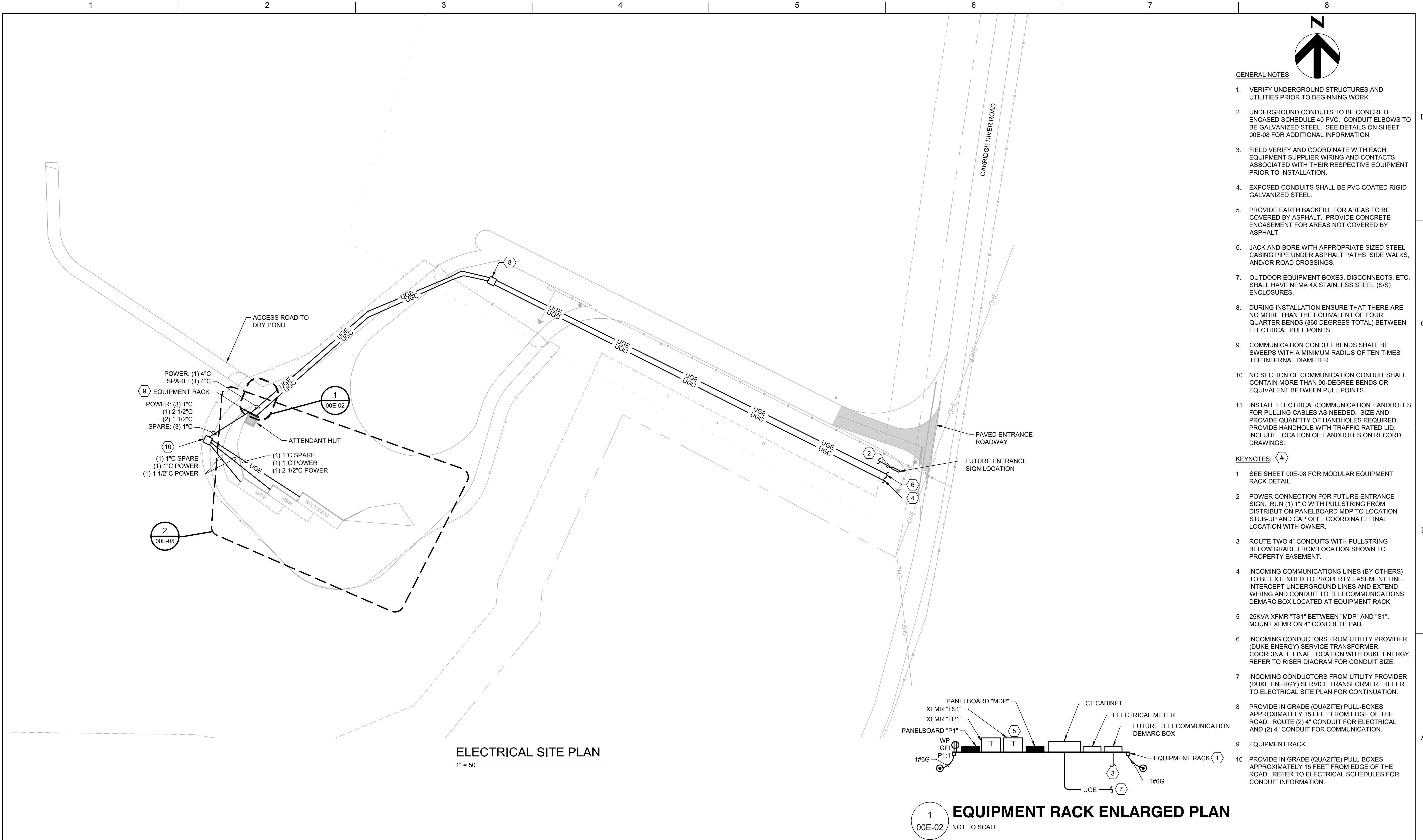
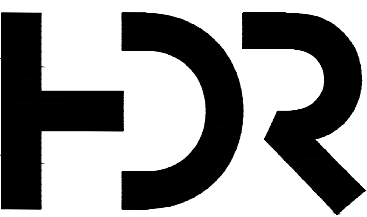


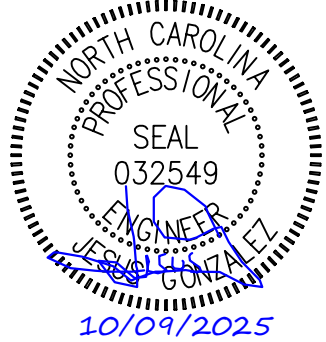




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Raleigh, NC 27601
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C	10/09/2025	CHANGE ORDER NO. 1
B	05/2024	ISSUED FOR BIDDING
A	11/2022	ISSUED FOR PERMITTING
ISSUE	DATE	DESCRIPTION

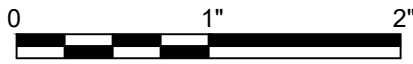
PROJECT MANAGER	J. MURRAY, PE
PROJECT ENGINEER	J. GONZALEZ, PE
DESIGNED BY	L. KOSAKOWSKI
DRAWN BY	J. SPACHER
PROJECT NUMBER	10354679



HARNETT COUNTY
NORTHWEST CONVENIENCE CENTER

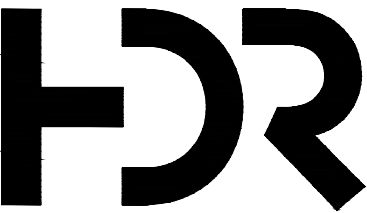
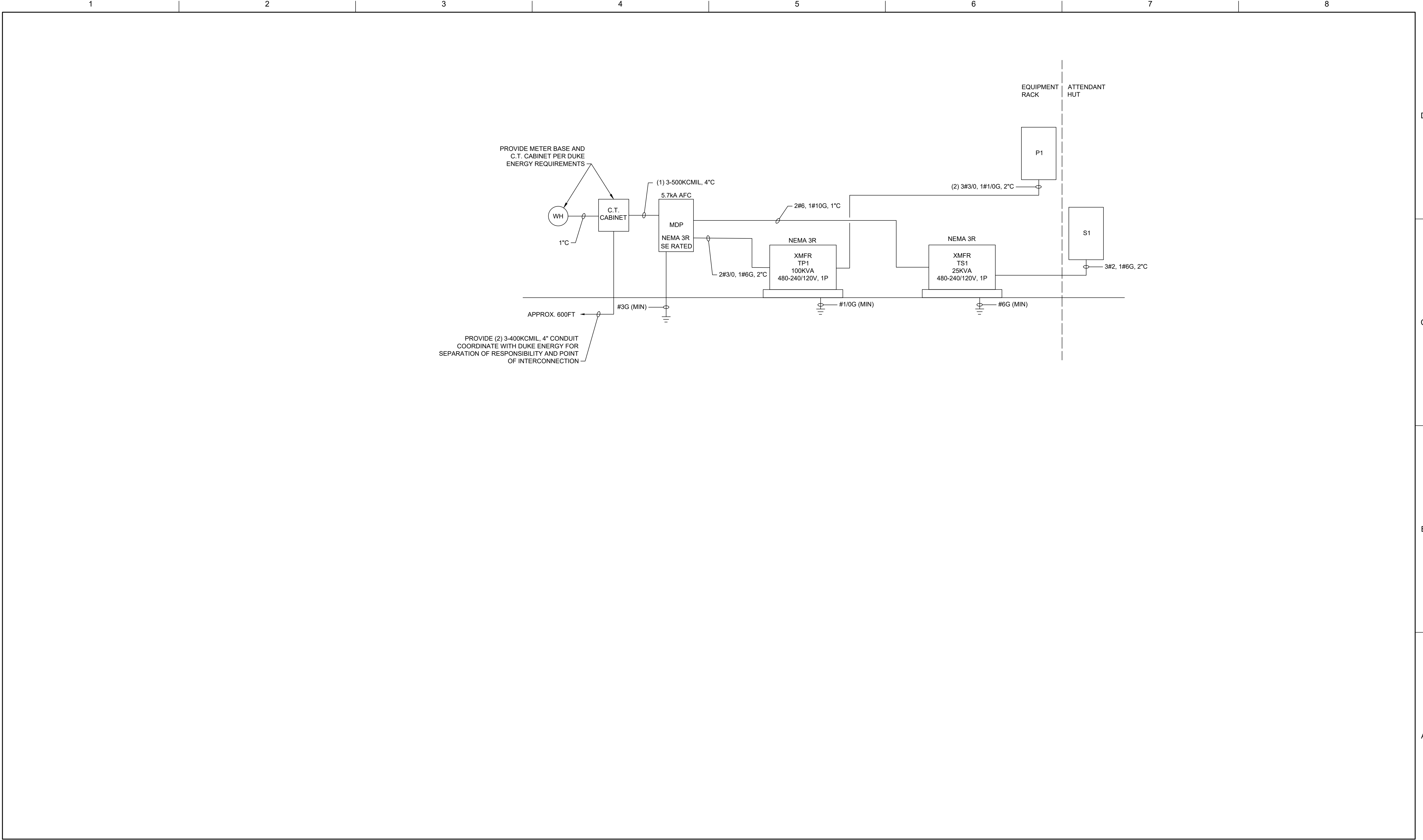
HARNETT COUNTY **NORTH CAROLINA**

ELECTRICAL SITE ENLARGED PLAN



FILENAME	00E-05.dwg
SCALE	1" = 10'

SHEET
00E-05



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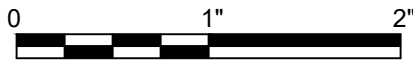
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PROJECT MANAGER	J. MURRAY, PE
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HARNETT COUNTY
NORTHWEST CONVENIENCE CENTER
HARNETT COUNTY NORTH CAROLINA

ELECTRICAL RISER DIAGRAM

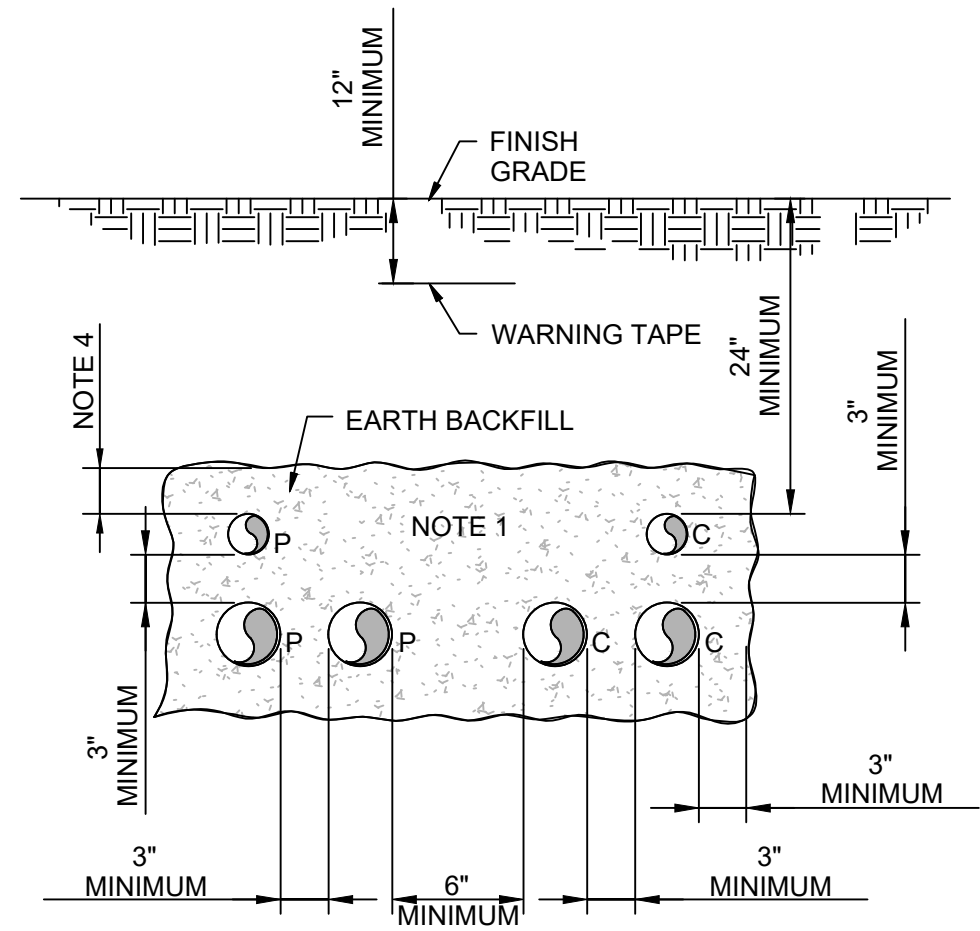


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SCALE	NONE

SHEET
00E-06

1		2		3		4		5		6		7		8																	
SWITCHBOARD NO:MDP VOLTAGE (L-L):480 VOLTAGE (L-N):240 PHASE / WIRE:1 / 3+G 200% NEUTRAL:NO BUS RATING (A):400 MAIN OC DEVICE (A/PHASE):400 INTERRUPTING RATING (KA):10 SERVICE ENTRANCE LABEL:YES ENCLOSURE:NEMA 3R MOUNTING:SURFACE LOCATION:EQUIPMENT RACK BUILDING:																PANELBOARD NO:P1 VOLTAGE (L-L):240 VOLTAGE (L-N):120 PHASE / WIRE:1 / 3+G 200% NEUTRAL:NO BUS RATING (A):400 MAIN OC DEVICE (A/PHASE):400 MCB INTERRUPTING RATING (KA):10 SERVICE ENTRANCE LABEL:NO ENCLOSURE:NEMA 3R MOUNTING:SURFACE LOCATION:EQUIPMENT RACK BUILDING:															
WIRING				CKT	CONNECTED LOAD (VA)				OCP		OCP		CONNECTED LOAD (VA)				CKT	WIRING													
PHASE	NEUT.	GRND.	COND.	NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC	MECH	MISC	DESCRIPTION	NO.	PHASE	NEUT.	GRND.	COND.								
				1	FUTURE ENTRANCE SIGN					20	2	A	20	1					SPARE	2											
				3								B	20	1					SPARE	4											
				5								C								6											
				7	FUTURE SITE LIGHTING					20	1	A	20	1					SPARE	8											
				9	SPARE					20	1	B	20	1					SPARE	10											
				11								C								12											
				13	SPARE					20	1	A	20	1					SPARE	14											
				15	SPARE					20	1	B	20	1					SPARE	16											
				17								C								18											
				19	SPARE					20	1	A	20	1					SPARE	20											
				21	SPARE					20	1	B	20	1					SPARE	22											
				23								C								24											
				25	SPARE					100	2	A	20	1					SPARE	26											
				27								B	20	1					SPARE	28											
				29								C								30											
				31	SPARE					20	1	A	20	1					SPARE	32											
				33	SPARE					20	1	B	20	1					SPARE	34											
				35								C								36											
*	*	*	*	37	PANEL S1 (LOCATED AT ATTENDANT HUT)	100	0	4,400	0	40	2	A	225	2	0	540	24,360	0	TRANSFORMER 'TP1'	38	*	*	*	*							
				39		0	180	4,400	0			B			0	180	24,360	0		40											
				41								C								42											
				L1	SPD INTEGRALLY MTD.					30	2	A	N/A	2						L1											
				L2	BUS CONNECTED							B								L2											
				L3								C								L3											
NOTES:				LOAD SUMMARY																NOTES:											
*** PANEL IS A MODIFIED 480/277V, 3 PHASE PANEL WITH THE C PHASE DISCONNECTED TO CREATE 480/240 1 PHASE.				CONNECTED LOAD (KVA)	LTS	REC	MECH	MISC	SPARE	TOTAL				480	LINE-TO-LINE VOLTS	PHASE A (KVA)	29	* REFER TO ONE-LINE DIAGRAM													
				DEMAND FACTOR **	1.25	NEC	1.00	---	20%	---				122	CONNECTED AMPS	PHASE B (KVA)	29	** MISC DEMAND INCLUDES 25% OF LARGEST MOTOR KVA													
				DEMAND LOAD (KVA)	0.1	0.9	57.5	3.8	11.7	74.0				154	DESIGN AMPS	PHASE C (KVA)	0														

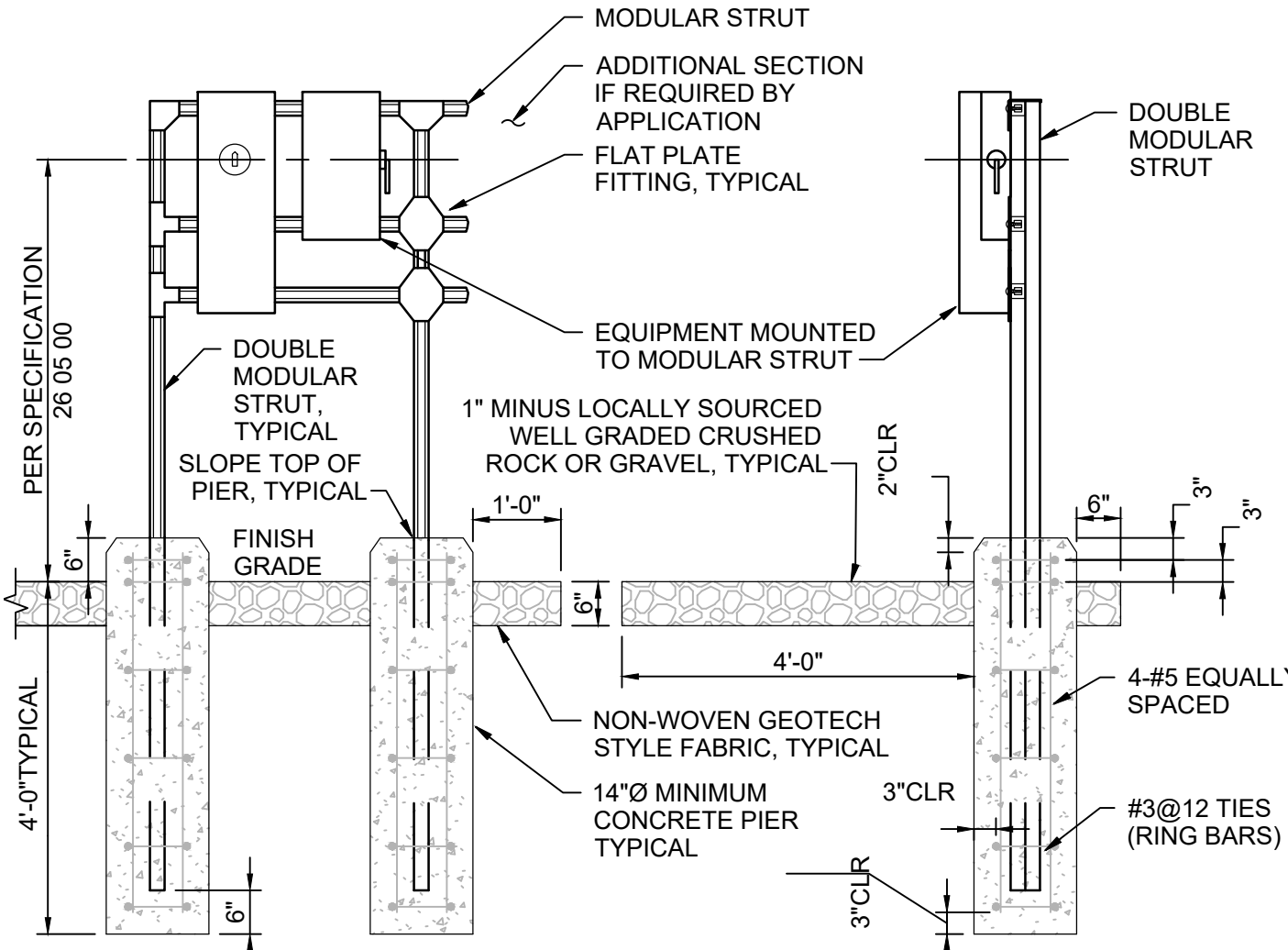
PANELBOARD NO:S1 VOLTAGE (L-L):240 VOLTAGE (L-N):120 PHASE / WIRE:1 / 3+G 200% NEUTRAL:NO BUS RATING (A):100 MAIN OC DEVICE (A/PHASE):100 MCB INTERRUPTING RATING (KA):10 SERVICE ENTRANCE LABEL:NO ENCLOSURE:NEMA 1 MOUNTING:SURFACE LOCATION:CONVINIENCE CENTER BUILDING:MODULAR BUILDING																								
WIRING				CKT	CONNECTED LOAD (VA)				OCP		OCP		CONNECTED LOAD (VA)				CKT	WIRING						
PHASE	NEUT.	GRND.	COND.	NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	P	AMPS	P	LTS	REC	MECH	MISC	DESCRIPTION	NO.	PHASE	NEUT.	GRND.	COND.	
				1	SPARE					20	1	A	30	2					2,200	2	10	10	10	3/4"
12	12	12	3/4"	3	RECEPTACLES		180			20	1	B						2,200		4	10	10	10	3/4"
12	12	12	3/4"	5	INTERIOR LIGHTING	100				20	1	A	30	2				2,200		6	10	10	10	3/4"
				7	SPARE					20	1	B						2,200		8	10	10	10	3/4"
				9	SPARE					20	1	A	30	1						10				
				11	SPARE					20	1	B	30	1						12				
NOTES:				LOAD SUMMARY																NOTES:				
				CONNECTED LOAD (KVA)	LTS	REC	MECH	MISC	SPARE	TOTAL				240	LINE-TO-LINE VOLTS	PHASE A (KVA)	4	* REFER TO ONE-LINE DIAGRAM						
				DEMAND FACTOR **	1.25	1.25	1.00	---	20%	---				38	CONNECTED AMPS	PHASE B (KVA)	2	** MISC DEMAND INCLUDES 25% OF LARGEST MOTOR KVA						
				DESIGN LOAD (KVA)	0.1	0.2	8.8	0.0	1.8	10.9				46	DESIGN AMPS	PHASE C (KVA)	2							



- NOTES THIS SECTION:
1. NUMBER OF CONDUITS AS REQUIRED FOR THE APPLICATION.
 2. P SUBSCRIPT ELECTRICAL POWER OR CONTROL CONDUIT.
 3. C SUBSCRIPT COMMUNICATION (TELEPHONE, DATA, INSTRUMENTATION CONDUIT).

**CONDUIT DUCTBANK SECTION
DIRECT BURIED**

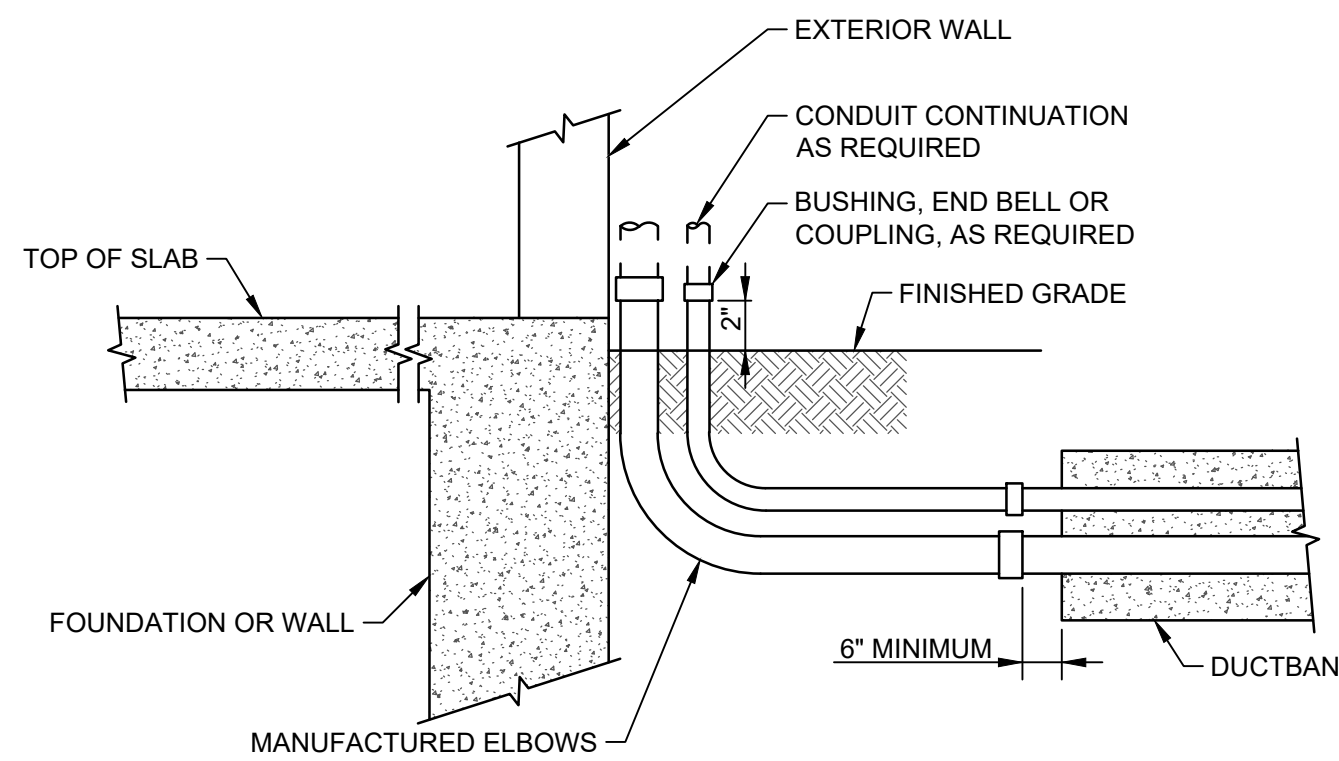
1
-
NOT TO SCALE



- FRONT VIEW**
- SIDE VIEW**
- NOTES THIS DETAIL:
1. COMBINED EQUIPMENT LOADS PER 36" SPAN SHALL NOT EXCEED 500LBS.
 2. MODULAR STRUT WIDTH: 1 5/8".
 3. RACK ASSEMBLY MATERIAL: GALVANIZED PER SPECIFICATION SECTION 26.
 4. REPAIR CUT ENDS AND DAMAGED SURFACES IN ACCORDANCE WITH SPECIFICATION SECTION 05.

**MODULAR EQUIPMENT RACK DETAIL
(MOUNTING ON EMBEDDED POSTS)**

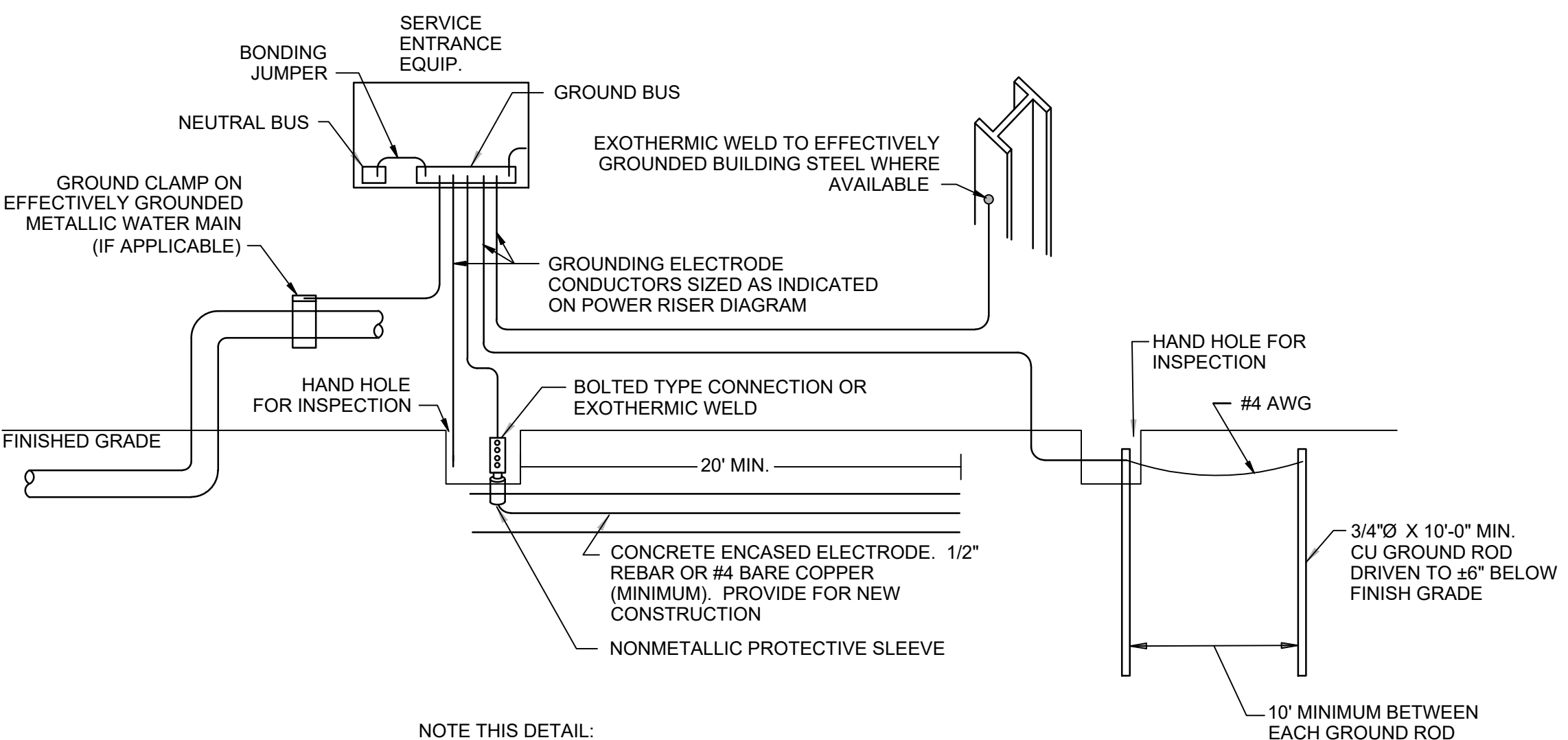
2
-
NOT TO SCALE



- NOTE THIS DETAIL:
1. SEE DUCTBANK DETAIL FOR ADDITIONAL REQUIREMENTS.

**CONCRETE TRANSITION TO ABOVE GRADE
(EXTERIOR TO EXTERIOR) DETAIL**

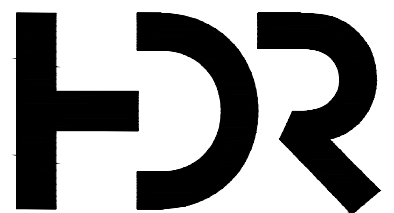
3
-
NOT TO SCALE



- NOTE THIS DETAIL:
1. GROUNDING ELECTRODES SHALL BE PROVIDED IN ACCORDANCE WITH NEC SECTION 250. ALL GROUNDING ELECTRODE CONDUCTORS SIZED AS INDICATED ON POWER RISER DIAGRAM. ALL METHODS OF CREATING THE GROUNDING SYSTEM MAY NOT BE REQUIRED OR AVAILABLE.

SERVICE GROUND DETAIL

4
-
NOT TO SCALE



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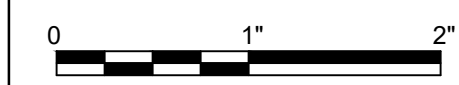
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HARNETT COUNTY
NORTHWEST CONVENIENCE CENTER
HARNETT COUNTY **NORTH CAROLINA**

ELECTRICAL DETAILS



FILENAME: 00E-08.dwg
SCALE: NOT TO SCALE

SHEET
00E-08