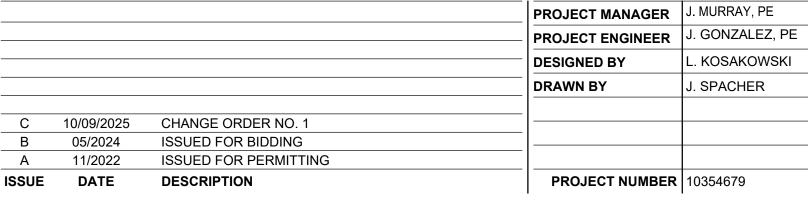


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HARNETT COUNTY NORTHWEST CONVENIENCE CENTER

HARNETT COUNTY NORTH CAROLINA

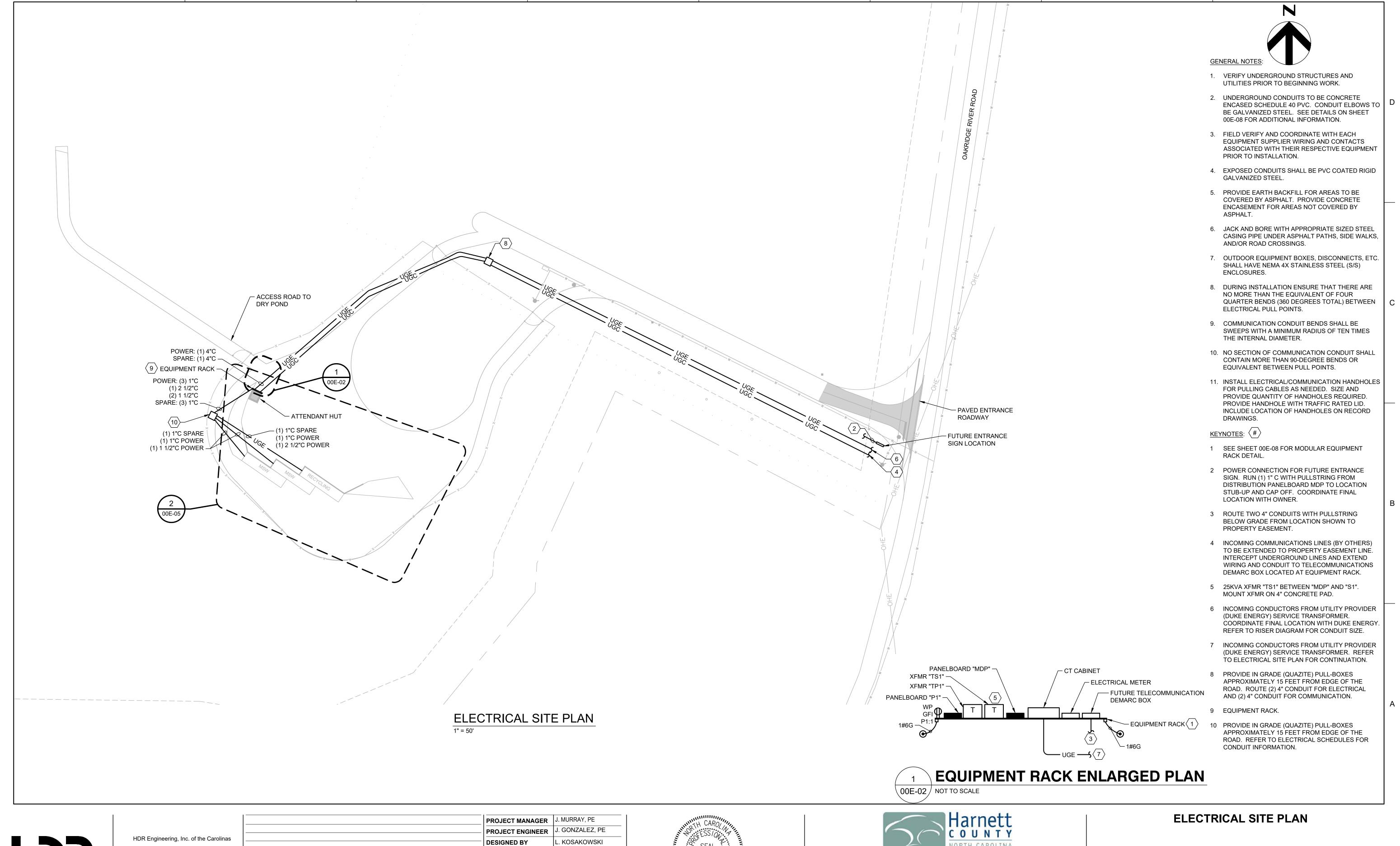


00E-01.dwg FILENAME

SCALE

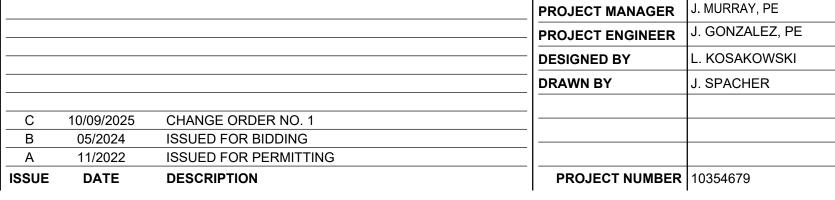
NONE

SHEET 00E-01





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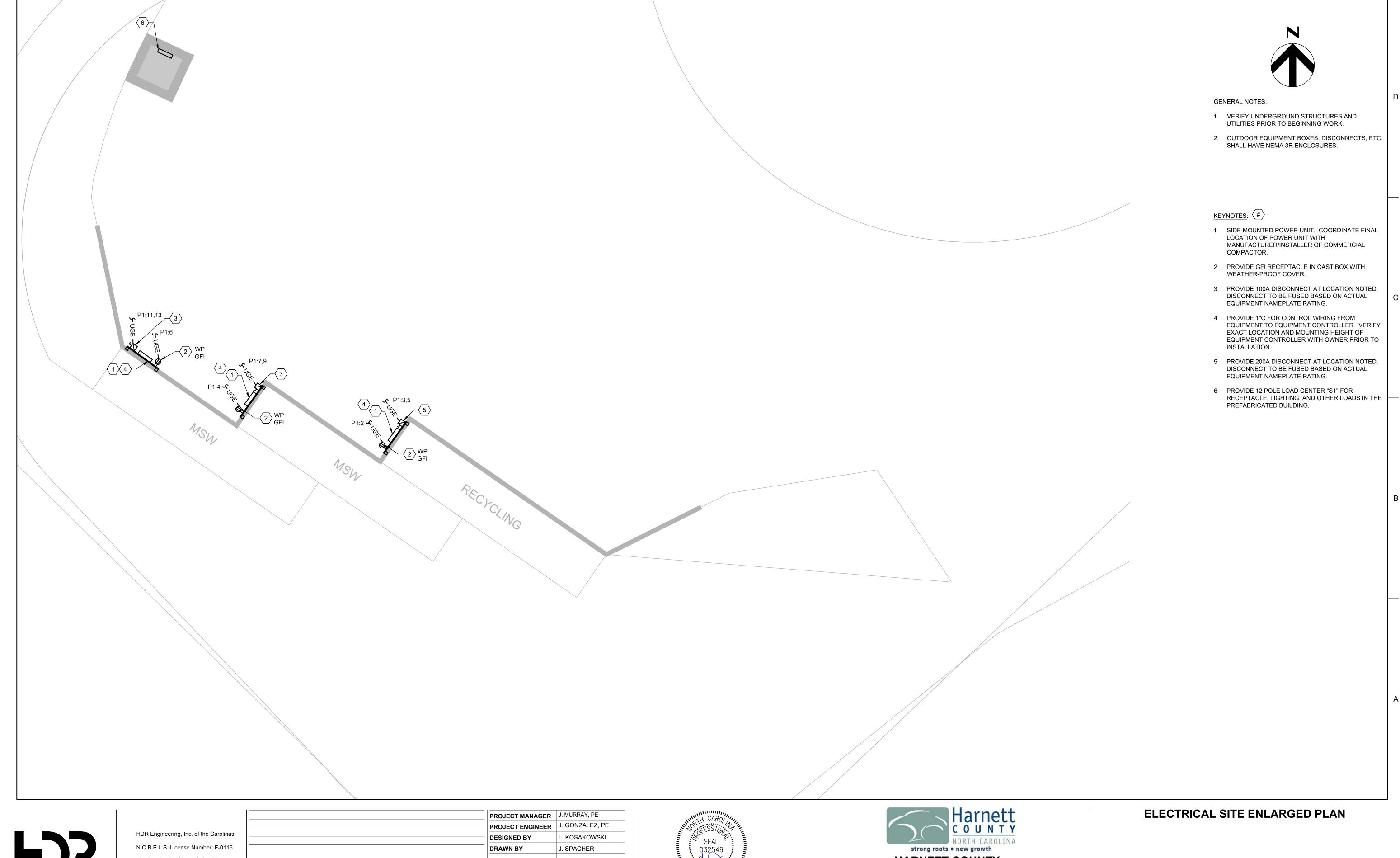
NORTH CAROLINA HARNETT COUNTY



00E-02.dwg FILENAME

SCALE 1" = 50'

SHEET



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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
Α	11/2022	ISSUED FOR PERMITTING		
В	05/2024	ISSUED FOR BIDDING		
С	10/09/2025	CHANGE ORDER NO. 1		
			DRAWN BY	J. SPACHER
			DESIGNED BY	
			DESIGNED BY	L. KOSAKOWSKI
			PROJECT ENGINEER	J. GONZALEZ, PE
			PROJECT MANAGER	J. MURRAY, PE





HARNETT COUNTY

NORTH CAROLINA



FILENAME 00E-05.dwg

EQUIPMENT | ATTENDANT RACK HUT PROVIDE METER BASE AND C.T. CABINET PER DUKE ENERGY REQUIREMENTS _ (1) 3-500KCMIL, 4"C (2) 3#3/0, 1#1/0G, 2"C —— 5.7kA AFC - 2#6, 1#10G, 1"C CABINET MDP NEMA 3R NEMA 3R NEMA 3R SE RATED XMFR XMFR TS1 TP1 ф—— 3#2, 1#6G, 2"С 100KVA 25KVA __ 2#3/0, 1#6G, 2"C 480-240/120V, 1P 480-240/120V, 1P #1/0G (MIN) <u></u>

#6G (MIN) #3G (MIN) — APPROX. 600FT ▼ // PROVIDE (2) 3-400KCMIL, 4" CONDUIT COORDINATE WITH DUKE ENERGY FOR SEPARATION OF RESPONSIBILITY AND POINT OF INTERCONNECTION ─



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HARNETT COUNTY

NORTH CAROLINA



ELECTRICAL RISER DIAGRAM

0 1" 2" FILENAME 00E-06.

SCALE NONE

					SWITCHBOARD NO:	MDP																	
					VOLTAGE (L-L):	480		BUS RA	TING (A):			400				ENCLOS	URE:	NEMA 3R					
						240				E (A/PHAS		400				MOUNTI		SURFACE					
						1/3+G				RATING (K	-					LOCATION		EQUIPMENT RACK					
						NO				NCE LABE						BUILDIN							
	WIR	ING		СКТ		CO	NNECTE	D LOAD (VΔ)	OCP		OC	-	CO	NNECTE	D LOAD (VA)		СКТ		WIE	RING	
PHASE	NEUT.		COND.	4	DESCRIPTION	LTS				AMPS F)	AMPS						DESCRIPTION			NEUT.		COND
					FUTURE ENTRANCE SIGN						A	20	1					SPARE	2				
				3							В	20	1					SPARE	4				
				5							С								6				
				7	FUTURE SITE LIGHTING					20 1	Α	20	1					SPARE	8				
				9	SPARE					20 1	В	20	1					SPARE	10				
				11							С								12				
				13	SPARE					20 1	Α	20	1					SPARE	14				
				15	SPARE					20 1	В	20	1					SPARE	16				
				17							С								18				
				19	SPARE					20 1	Α	20	1					SPARE	20				
				21	SPARE					20 1	В	20	1					SPARE	22				
				23							С								24				
					SPARE					100 2	Α	20	1					SPARE	26				
				27							В	20	1					SPARE	28				
				29							С								30				
					SPARE					20 1	Α	20	1					SPARE	32				
					SPARE					20 1	В	20	1					SPARE	34				
				35							С								36				
*	*	*	*		PANEL S1 (LOCATED AT	100	0	4,400	0	40 2	. A	225	2	0	540	24,360	0	TRANSFORMER 'TP1'	38	*	*	*	*
					ATTENDANT HUT)	0	180	4,400	0		В			0	180	24,360	0		40				
				41							С								42				
					SPD INTEGRALLY MTD.					30 2	. A	N/A	2					1	L1	4			
					BUS CONNECTED						В								L2				
				L3							С								L3				
IOTES:							T	1	T	LOAD										NOTES:			
	EL IS A M					LTS	REC	MECH	MISC	SPARE		OTAL	<u> </u>		Ta as as			PHASE BALANCE			R TO ON		
					NECTED LOAD (KVA)	0.1	0.9	57.5	0.0			58.5	↓	480		-LINE VO		PHASE A (KVA)	29 ** MISC DEMAND INCLUDES 25				
	PHASE DI				AND FACTOR **	1.25	NEC	1.00		20%			↓	122		CTED AM	PS	PHASE B (KVA)	29	OF L	ARGEST	MOTOR	KVA
O CRE	ATE 480/2	240 1 PH	ASE.	DEM.	AND 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		BUS RA	TING (A):			100				ENCLOS	URE:	NEMA 1					
					VOLTAGE (L-N):	120		MAIN O	DEVICE	E (A/PHA	SE):	100 N	ИСВ			MOUNTI	NG:	SURFACE					
					PHASE / WIRE:	1 / 3+G		INTERRU	JPTING F	RATING	(KA):	10				LOCATION	ON:	CONVINIENCE CENTER					
					200% NEUTRAL:	NO		SERVICE	E ENTRA	NCE LA	BEL:	NO				BUILDIN	IG:	MODULAR BUILDING					
	WIR	RING		СКТ		СО	NNECTE	D LOAD (VA)	OCP	Т	0	СР	CC	NNECTE	D LOAD (VA)		СКТ		WIR	ING	
PHASE	NEUT.	GRND.	COND.	NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р	AMP	SP	LTS	REC	MECH	MISC	DESCRIPTION	NO.	PHASE	NEUT.	GRND.	COND.
				1	SPARE					20	1 1	A 30	2			2,200		FAN HVAC UNIT	2	10	10	10	3/4"
12	12	12	3/4"	3	RECEPTACLES		180			20	1	в 30				2,200		ANTIVAC ONII	4	10	10	10	3/4"
12	12	12	3/4"	5	INTERIOR LIGHTING	100				20	1 /	A 30	1,			2,200		HEATER UNIT	6	10	10	10	3/4"
				7	SPARE					20	1	B 30				2,200		THEATER OINT	8	10	10	10	3/4"
				9	SPARE					20	1 /	A 30	1					SPARE	10				
				11	SPARE					20	1	В 30	1					SPARE	12				
NOTES:				LOAD SUMMARY											NOTES:								
						LTS	REC	MECH	MISC	SPAR	E	TOTAL						PHASE BALANCE		* REFE	R TO ONI	E-LINE D	IAGRAM
				CON	NECTED LOAD (KVA)	0.1	0.2	8.8	0.0			9.1		240	LINE-TC	-LINE VO	LTS	PHASE A (KVA)	4	** MISC	DEMAND	INCLUD	ES 25%
				DEM	IAND FACTOR **	1.25	1.25	1.00		20%	\top			38	CONNE	CTED AM	PS	PHASE B (KVA)	2	OF LA	RGEST	MOTOR	KVA
				DES	IGN LOAD (KVA)	0.1	0.2	8.8	0.0	1.8		10.9		46	DESIGN	AMPS		PHASE C (KVA)	2	1			

					PANELBOARD NO:	P1																		
					VOLTAGE (L-L):	240		BUS RA	TING (A):				400				ENCLOS	URE:	NEMA 3R					
					VOLTAGE (L-N):	120		MAIN O	DEVICE	E (A/PHA	ASE)	:	400 MC	В			MOUNTI	NG:	SURFACE					
					PHASE / WIRE:	1 / 3+G		INTERRU	JPTING F	RATING	(KA):	10				LOCATION	ON:	EQUIPMENT RACK					
					200% NEUTRAL:	NO		SERVICE	E ENTRA	NCE LA	BEL	:	NO				BUILDIN	G:						
	WIF	RING		СКТ	•	СО	NNECTE	D LOAD (VA)	OCF	•		OCF	•	CC	ONNECTE	D LOAD (VA)		СКТ		WIR	ING	
PHASE	NEUT.	GRND.	COND.	NO.	DESCRIPTION	LTS	REC	MECH	MISC	AMPS	Р		AMPS	Р	LTS	REC	MECH	MISC	DESCRIPTION	NO.	PHASE	NEUT.	GRND.	COND.
12	12	12	3/4"	1	RECEPTACLES		180			20	1	Α	20	1		180			COMPACTOR RECEPTS	2	10	10	12	1"
3/0	3/0	6	2"	3	RECYCLING			15,000		200	2	В	20	1		180			COMPACTOR RECEPTS	4	10	10	12	1"
				5	COMPACTOR			15,000				Α	20	1		180			COMPACTOR RECEPTS	6	10	10	12	1"
1	1	8	1-1/2"	7	MSW			4,680		100	2	В	20	1					SPARE	8				T
				9				4,680				Α	30	1					SPARE	10				
1	1	8	1-1/2"	11	MSW			4,680		100	2	В	30	1					SPARE	12				
				13				4,680				Α	30	1					SPARE	14				
				15	SPARE					20	1	В	30	1					SPARE	16				
				17	SPARE					20	1	Α	20	1					SPARE	18				
				19	SPARE					20	1	В	30	1					SPARE	20				
				21	SPARE					20	1	Α	30	1					SPARE	22				
				23	SPARE					20	1	В	20	1					SPARE	24				
NOTES:										LO	AD S	SUN	IMARY								NOTES:			
						LTS	REC	MECH	MISC	SPAF	RE	T	DTAL						PHASE BALANCE		* REFER	r to one	E-LINE D	DIAGRAM
				CON	NECTED LOAD (KVA)	0.0	0.7	48.7	0.0				49.4		240	LINE-TO	-LINE VO	LTS	PHASE A (KVA)	25	** MISC	DEMAND	INCLUE	DES 25%
				DEM	MAND FACTOR **	1.25	1.25	1.00		20%	,				206	CONNE	CTED AM	PS	PHASE B (KVA)	25	OF LA	RGEST	MOTOR	KVA
				DES	SIGN LOAD (KVA)	0.0	0.7	48.7	3.8	9.9			63.1		263	DESIGN	AMPS							

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ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	10354679
A	11/2022	ISSUED FOR PERMITTING		
В	05/2024	ISSUED FOR BIDDING		
C	10/09/2025	CHANGE ORDER NO. 1		
			DRAWN BY	J. SPACHER
			DESIGNED BY	L. KOSAKOWSKI
			PROJECT ENGINEER	J. GONZALEZ, PE
			PROJECT MANAGER	J. MURRAY, PE



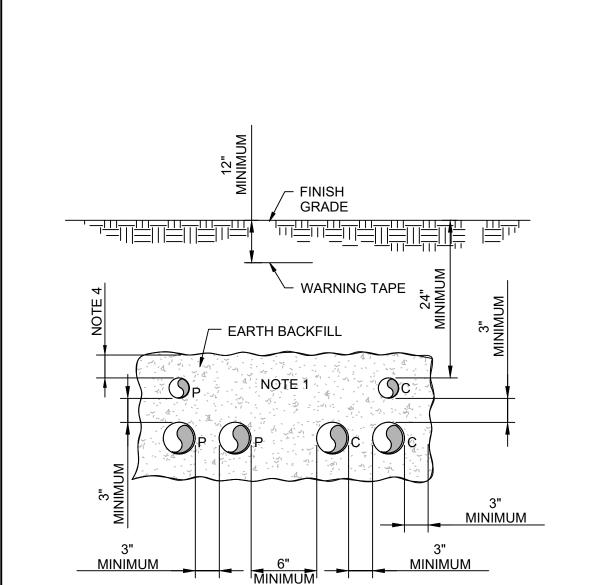


HARNETT COUNTY

NORTHWEST CONVENIENCE CENTER **NORTH CAROLINA**



FILENAME 00E-07.dwg SCALE NONE



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.



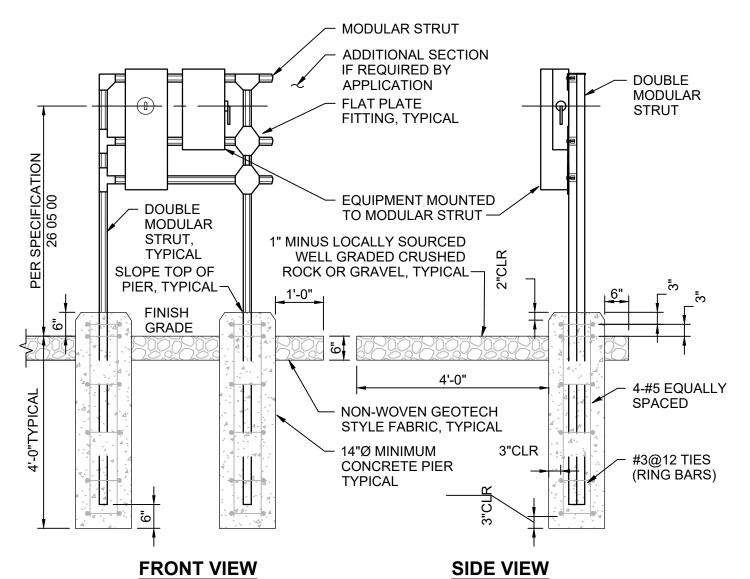
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Raleigh, NC 27601

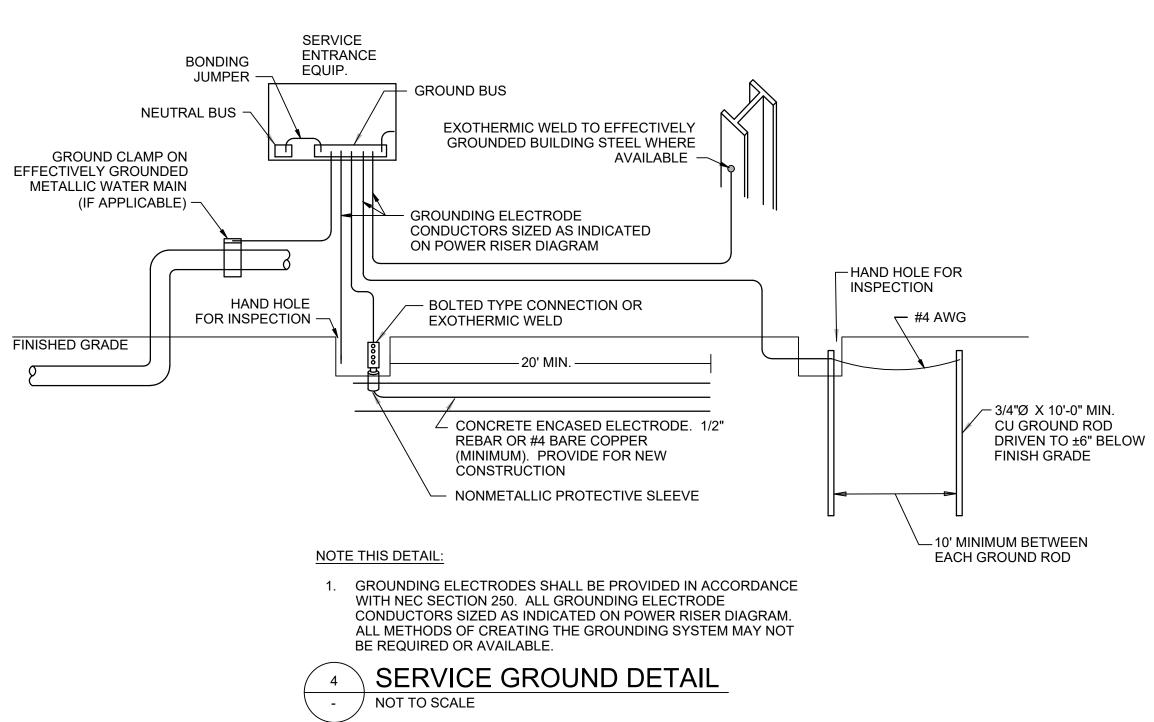
919.232.6600

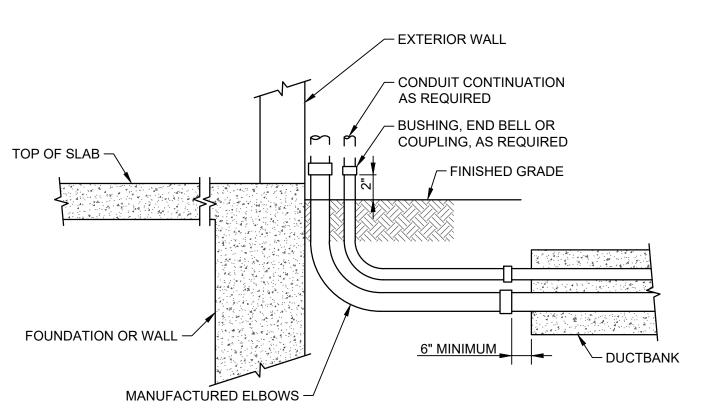


NOTES THIS DETAIL:

- 1. COMBINED EQUIPMENT LOADS PER 36" SPAN SHALL NOT EXCEED 500LBS.
- 2. MODULAR STRUCT 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.



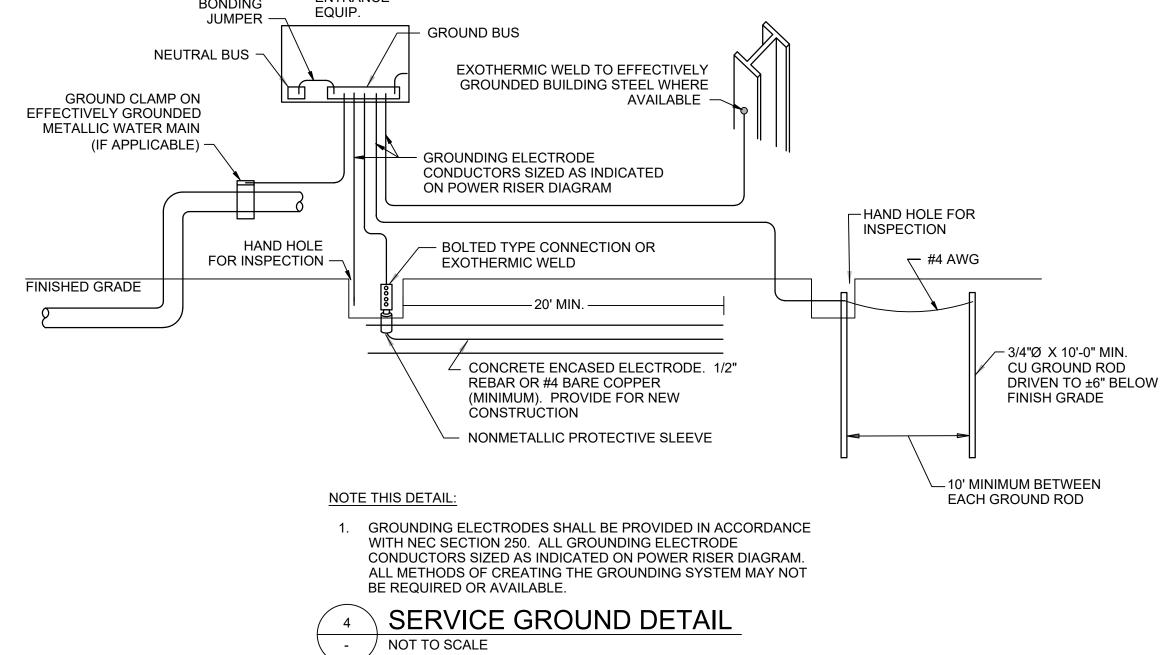


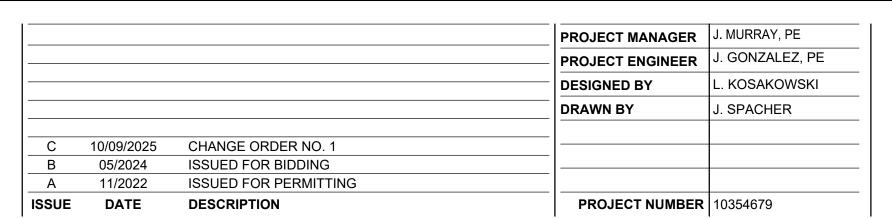


NOTE THIS DETAIL:

1. SEE DUCTBANK DETAIL FOR ADDITIONAL REQUIREMENTS.

CONCRETE TRANSITION TO ABOVE GRADE (EXTERIOR TO EXTERIOR) DETAIL NOT TO SCALE



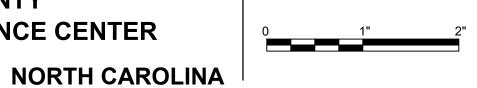






HARNETT COUNTY

HARNETT COUNTY NORTHWEST CONVENIENCE CENTER **ELECTRICAL DETAILS**



00E-08.dwg FILENAME SCALE NOT TO SCALE

SHEET 00E-08