

**Harnett County Central Permitting**

420 McKinney Pkwy / PO Box 65 Lillington, NC 27546 – centralpermitting@harnett.org

Ph.: 910-893-7525 - Fax: 910-893-2793 / www.harnett.org/permits

**Certification of Work Performed By Owner/Contractor**

**(Individual Trade Application)**

Owner (s) of Structure: Harnett Regional Water Phone: 910 893 7575

Owner (s) Mailing Address: \_\_\_\_\_

Land Owner Name (s): Herbert Sandler Phone: \_\_\_\_\_

Construction or Site Address: Conservatory Dr (Main St/Boykin) Buies Creek

PIN # 0680 09 2725 Parcel # \_\_\_\_\_

Job Cost (Required): <sup>\$</sup>150,000 Description of Work to be done Electrical services  
Waste Water Pumping Station

Mechanical: New Unit With Ductwork NA New Unit Without Ductwork NA Gas Piping NA Other    

Electrical\*: 200 Amp     <200 Amp X Service Change     Service Reconnect     Other    

\* For Progress Energy customers we need the premise number

Plumbing: Water/Sewer Tap     Number of Baths     Water Heater    

Specific Directions to Job from Lillington:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Subdivision: Retreat at North Main Lot #: \_\_\_\_\_

I Jon Erik Neikens will provide the Electrical labor on this structure.  
(Contractors Name) (Trade)

I am the building owner or my NC state license number is U. 04565, which entitles me to perform such work on the above structure legally. All work shall comply with the State Building Code and all other applicable State and local laws, ordinances and regulations.

Bitting Electric Inc  
Contractor's Company Name  
1000 Northgate Court Morrisville NC 27560  
Address  
U. 04565  
License #

919 467 9417  
Telephone  
jneikens@bittingelectric.com  
Email Address

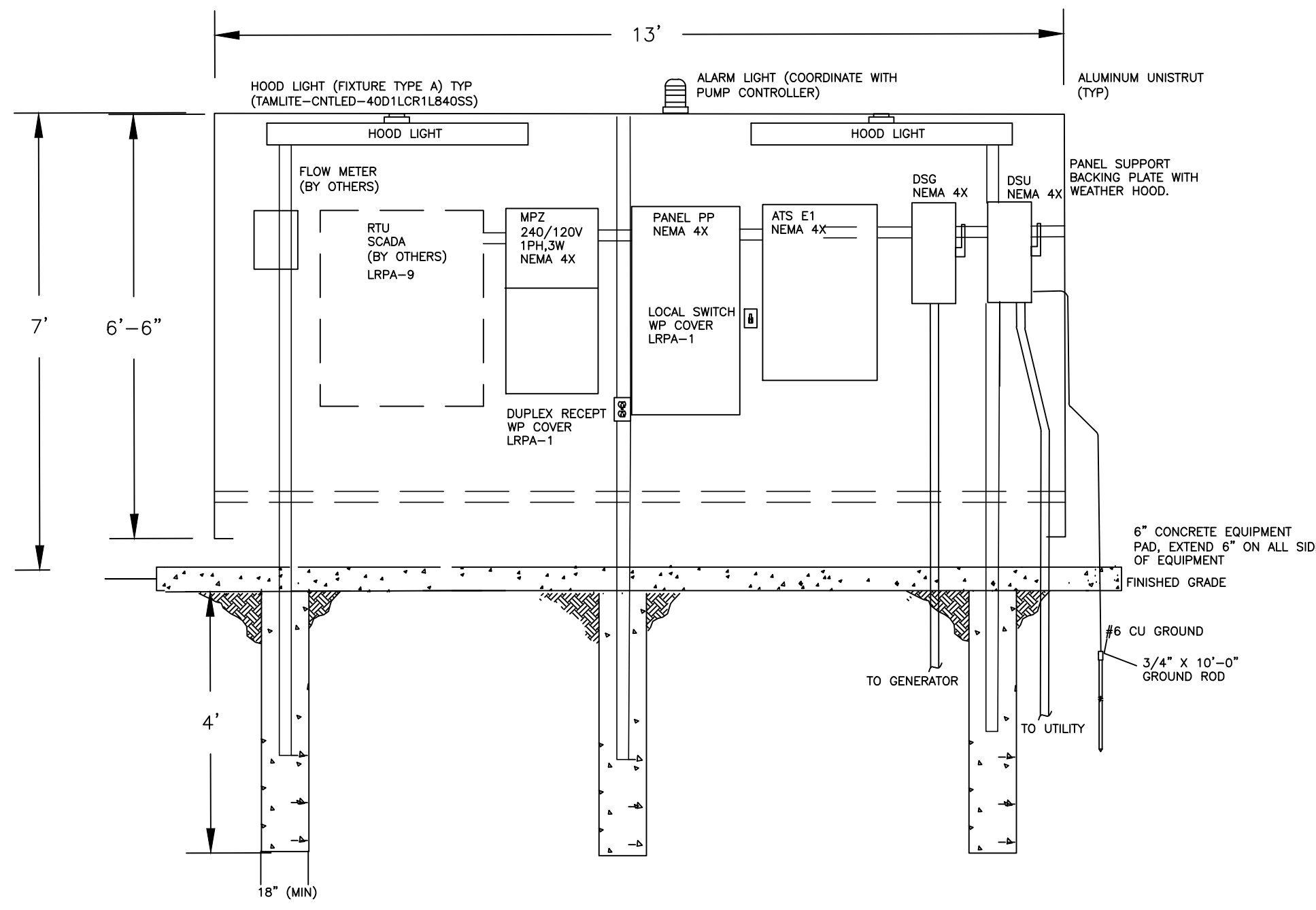
Structure Owner / Contractor Signature: *Jon Erik Neikens* Date: 05-21-24

By signing this application you affirm that you have obtained permission from the above listed license holder to purchase permits on their behalf. If doing the work as owner you understand that you cannot rent, lease or sell the listed property for 12 months after completion of the listed work

**\*Company name, address, & phone must match information on license**

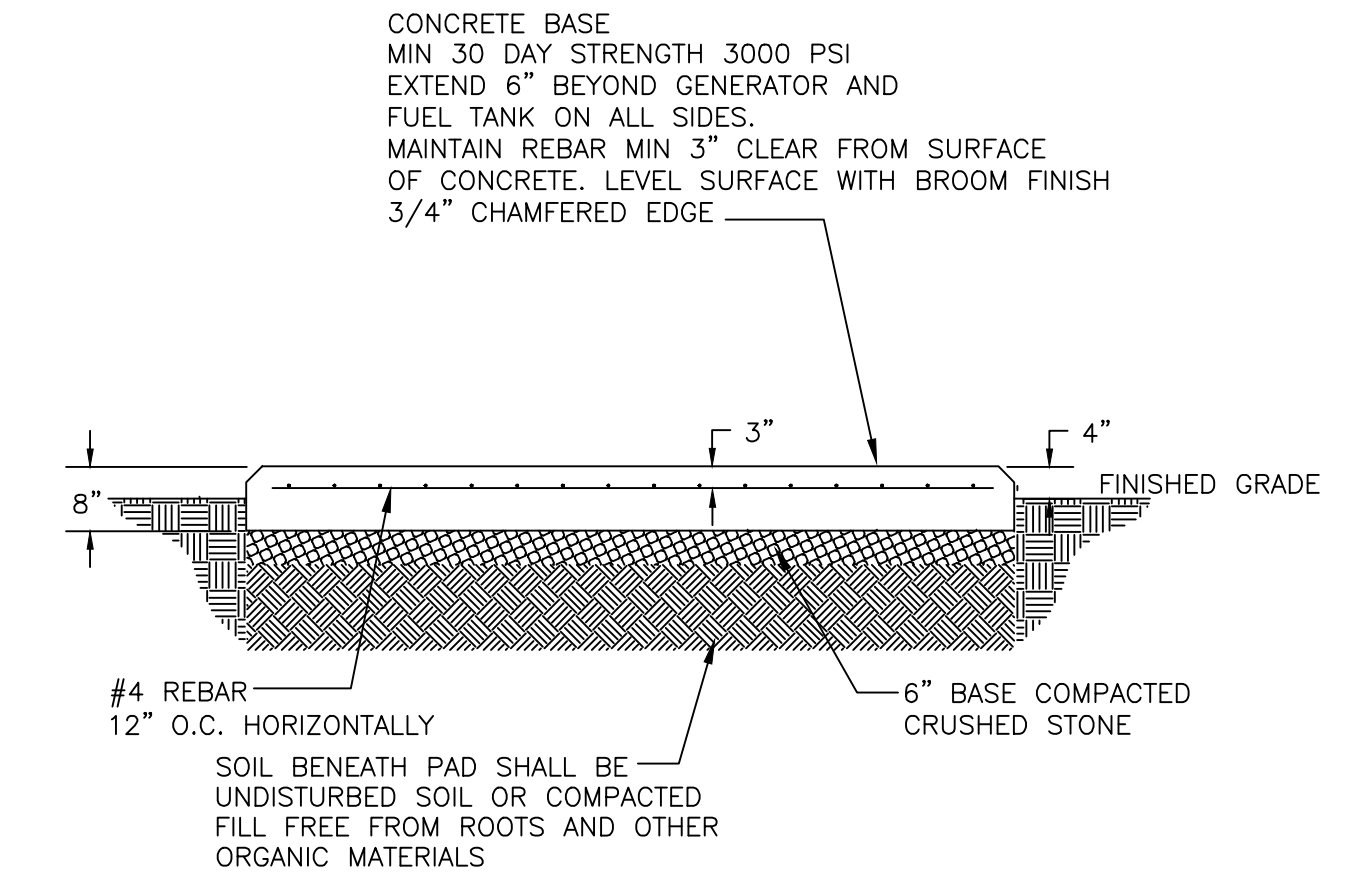
**Faxed or Mailed application could have an approximately 1-5 day process time**



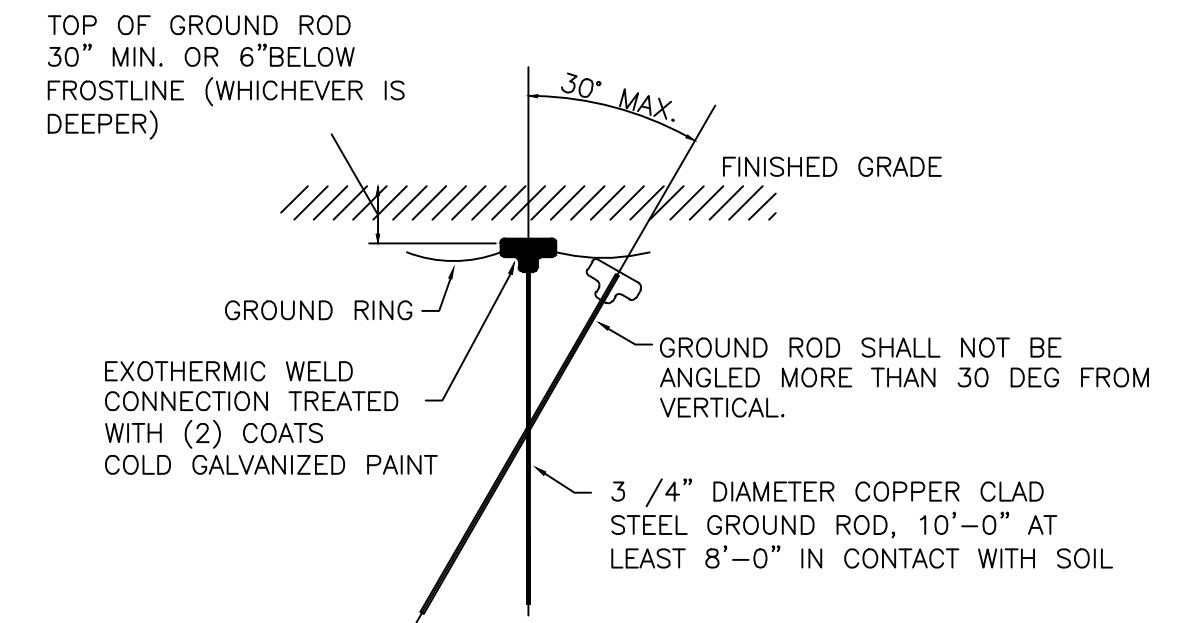


- NOTES:**  
 1. HOOD TO BE 12 GA. MILL FINISH ALUMINUM  
 2. HOOD TO BE HELIARC 'STITCH' WELDED TO 1/4" ALUMINUM PLATE EQUIPMENT BACKING BOARD  
 3. HOOD SHALL BE SAME WIDTH AS ALUMINUM PLATE EQUIPMENT BACKING BOARD  
 4. PROVIDE MOUNTING TRBS FOR WORK LIGHT BOX

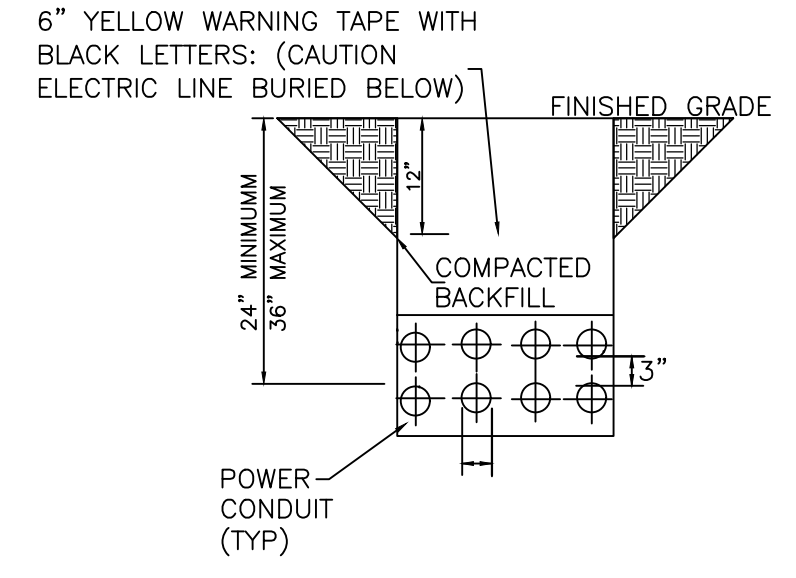
**1 ELECTRICAL EQUIPMENT HOOD DETAILS**  
scale: NTS



**2 ELECTRICAL EQUIPMENT PAD DETAIL**  
scale: NTS



**3 GROUND ROD DETAIL**  
scale: NTS



**4 UNDERGROUND RACEWAY DETAIL**  
scale: NTS

**PANEL PP-A 100A MLO 480/277V,3 PH,4W LOCATION: ELEC DISTB RACK AIC RATING: 10Kaic Nema 4x**

NO	LOAD DESCRIPTION	LOAD IN KILO-VOLT-AMPS											LOAD DESCRIPTION	NO										
		A/C	HTG	KIT	MIS	MTS	RCP	LTG	CB	P	CKT	PH			CKT	P	CB	LTG	RCP	MTS	MIS	KIT	HTG	A/C
1						14.9																	LRPA(RPZ 7.5KVA)	2
3	WET WELL PUMPS					14.9				100A	3P	3	B	4	2P	20A							3.8	4
5						14.9																		6
7	SPARE									20	1	7	A	8	1	20								8
9	SPARE									20	1	9	B	10	1	20								10
11	SPARE									20	1	11	C	12	1	20								12
13	SPARE									20	1	13	A	14	1	20								14
15	SPARE									20	1	15	B	16	1	20								16
17	SPARE									20	1	17	C	18	1	20								18
19	SPARE									20	1	19	A	20	1	20								20
21	SPARE									20	1	21	B	22	1	20								22
23	SPARE									20	1	23	C	24	1	20								24

CONNECTED KILO-VOLT-AMPS				
LOAD TYPE	A	B	C	TOTAL
MOTORS (MTS)	15	15	15	45
MISCELLANEOUS (MIS)	0	0	0	0
HEATING (HTG)	0	0	0	0
AIR CONDITIONING (AC)	0	0	0	0
KITCHEN	0	0	0	0
RECEPTACLES	4	4	0	8
LIGHTING	0	0	0	0
CONNECTED kVA (phase)	19	19	15	52
CONNECTED AMPS (phase)	39	39	39	63
CONNECTED AMPS (L-N)	67	67	54	

DEMAND FACTORS
0.40
1.00
1.00
0.80
0.80
1.00

DEMAND KILO-VOLT-AMPS				
LOAD TYPE	A	B	C	TOTAL
MOTORS	6	6	6	18
MISCELLANEOUS	0	0	0	0
HEATING	0	0	0	0
AIR CONDITIONING	0	0	0	0
KITCHEN	0	0	0	0
RECEPTACLES	4	4	0	8
LIGHTING	0	0	0	0
DEMAND kVA	10	10	6	25
DEMAND AMPS (phase)	20	20	12	31
DEMAND AMPS (L-N)	35	35	22	

ACCESSORIES	
S	MOUNTING (SURFACE OR FLUSH)
C	BUS MATERIAL (COOPER - ALUMNUM)
4X	NEMA ENCLOSURE TYPE NUMBER
N	ISOLATED GROUND BUS (Y/N)
100.0	NUETRAL (100%,200%)
T	FEED (TOP/BOTTOM)
Y	EQUIPMENT GROUND BAR (Y/N)
N	UL LISTED FEED THRU LUGS (Y/N)
	SERVICE ENTRANCE LABEL (Y/N)

**PANEL LRP-A 40A MCB 120/230V,1 PH,3W LOCATION: PS ELEC RACK AIC RATING: 10Kaic 480-240/120V MPZ**

NO	LOAD DESCRIPTION	LOAD IN KILO-VOLT-AMPS											LOAD DESCRIPTION	NO										
		A/C	HTG	KIT	MIS	MTS	RCP	LTG	CB	P	CKT	PH			CKT	P	CB	LTG	RCP	MTS	MIS	KIT	HTG	A/C
1	SERVICE RECP/LTG EQPT RACK					0.4	0.7	20A	1P	1	A	2	1P	20A									1.0	2
3	SERVICE RECEPT WET WELL					0.4		20A	1P	3	B	4	2P	20A										4
5	ODOR CONTROL RECEPT					1.0		20A	1P	5	A	6												6
7	AREA LIGHT						0.8	20A	1P	7	B	8	1P	20A									1.5	8
9	SCADA/CONTROLS						0.5	20A	1P	9	A	10	1P	20A									0.4	10
11	SPARE							20A	1P	11	B	12	1P	20A										12

CONNECTED KILO-VOLT-AMPS				
LOAD TYPE	A	B	C	TOTAL
MOTORS (MTS)	0	0	0	0
MISCELLANEOUS (MIS)	0	2	0	2
HEATING (HTG)	0	0	0	0
AIR CONDITIONING (AC)	0	0	0	0
KITCHEN	0	0	0	0
RECEPTACLES	3	0	0	4
LIGHTING	1	1	0	2
CONNECTED kVA (phase)	4	3	0	7
CONNECTED AMPS (phase)	17	11	0	28
CONNECTED AMPS (L-N)	33	23	0	

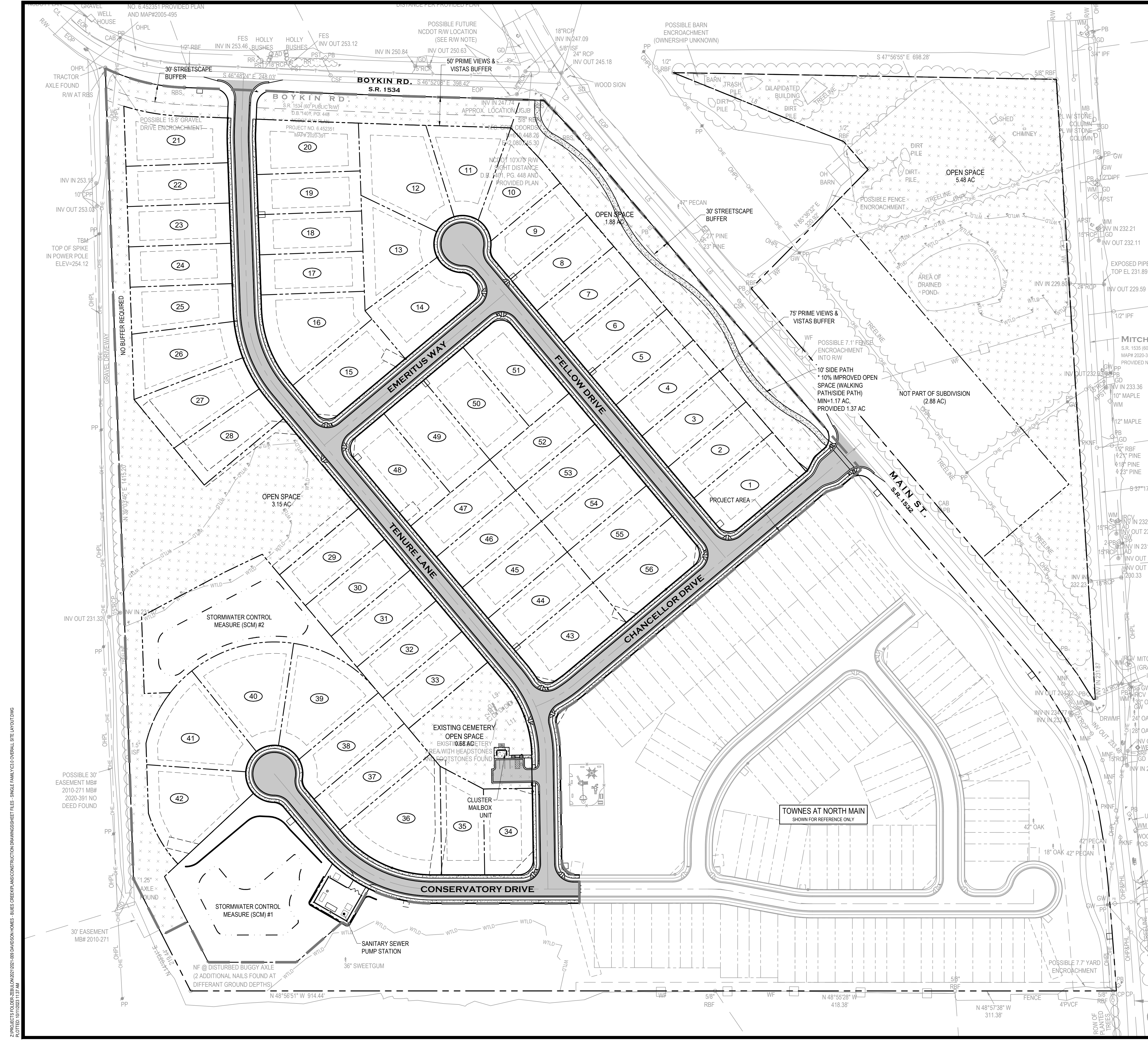
DEMAND FACTORS
0.80
0.40
1.00
0.80
0.80
1.00

DEMAND KILO-VOLT-AMPS				
LOAD TYPE	A	B	C	TOTAL
MOTORS	0	0	0	0
MISCELLANEOUS	0	1	0	1
HEATING	0	0	0	0
AIR CONDITIONING	0	0	0	0
KITCHEN	0	0	0	0
RECEPTACLES	3	0	0	4
LIGHTING	1	1	0	2
DEMAND kVA	4	2	0	6
DEMAND AMPS (phase)	17	8	0	24
DEMAND AMPS (L-N)	33	15	0	

ACCESSORIES	
S	MOUNTING (SURFACE OR FLUSH)
C	BUS MATERIAL (COOPER - ALUMNUM)
1	NEMA ENCLOSURE TYPE NUMBER
N	ISOLATED GROUND BUS (Y/N)
100.0	NUETRAL (100%,200%)
T	FEED (TOP/BOTTOM)
Y	EQUIPMENT GROUND BAR (Y/N)
N	UL LISTED FEED THRU LUGS (Y/N)
	SERVICE ENTRANCE LABEL (Y/N)

FIXTURE TYPE A: HOOD LIGHT (TAMLITE--CNTLED--40D1LCR1L840SS)  
 FIXTURE TYPE B: AREA LIGHT, ARM MOUNTED TO WOOD POLE, TAMLITE D0SLD80SK, 80W LED (5K) WITH PHOTO CELL AND ARM MOUNT BRACKET.

[AREA OF WORK]



- GENERAL NOTES:**
- THE FOLLOWING NOTES ARE APPLICABLE TO SITE SHEETS C3.0 THRU C3.3
  - ALL CONSTRUCTION SHALL BE PER HARNETT COUNTY STANDARDS AND SPECIFICATIONS.
  - ALL DIMENSIONS ARE IN FEET AND TO EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
  - ALL SITE ELEMENTS ARE PERPENDICULAR TO EACH OTHER UNLESS OTHERWISE NOTED.
  - CONTRACTOR SHALL CONTACT ALL OWNERS OF EASEMENTS, RIGHT-OF-WAYS AND UTILITIES, PUBLIC OR PRIVATE, BEFORE WORKING IN THESE AREAS.
  - PROTECT ALL PROPERTY MONUMENTS AND PINS. MONUMENTS AND PINS THAT WILL BE DISTURBED DURING CONSTRUCTION SHALL BE REFERENCED AND REPLACED BY A LICENSED LAND SURVEYOR AT THE COST OF THE CONTRACTOR.
  - CONTRACTOR SHALL MAINTAIN THE SITE IN SUCH A MANNER THAT WORKMEN AND THE PUBLIC WILL BE PROTECTED FROM INJURY AND ADJOINING PROPERTY PROTECTED FROM DAMAGE
  - CONTRACTOR SHALL REMOVE ALL TRASH AND DEBRIS FROM THE SITE UPON COMPLETION OF THE PROJECT AND AT LEAST ONCE A WEEK DURING CONSTRUCTION.
  - CONTRACTOR IS RESPONSIBLE FOR DAMAGE TO ANY EXISTING ITEM AND/OR MATERIAL DUE TO CONSTRUCTION OPERATIONS. ALL STREET SURFACES, UTILITY POLES, CULVERTS, DITCHES, CURB AND GUTTER OR OTHER STRUCTURES THAT ARE DISTURBED OR DAMAGED IN ANY MANNER AS A RESULT OF CONSTRUCTION SHALL BE REPLACED OR REPAIRED BY THE CONTRACTOR IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATIONS.
  - IF DEPARTURES FROM THE DRAWINGS OR SPECIFICATIONS ARE DEEMED NECESSARY BY THE CONTRACTOR, DETAILS OF SUCH DEPARTURES AND REASONS THEREOF SHALL BE SUBMITTED IN WRITING TO THE FACILITY DESIGNER FOR REVIEW. NO DEPARTURES FROM THE CONTRACT DOCUMENTS WILL BE ALLOWED WITHOUT APPROVAL BY THE FACILITY DESIGNER.
  - ANY AND ALL QUANTITIES SHOWN OR IMPLIED ON THE PLANS ARE FOR ESTIMATION PURPOSES ONLY.
  - APPROVAL OF THIS PLAN IS NOT AN AUTHORIZATION TO GRADE ADJACENT PROPERTIES. WHEN FIELD CONDITIONS WARRANT OFF-SITE GRADING, PERMISSION MUST BE OBTAINED FROM THE AFFECTED PROPERTY OWNERS.
  - ENTRY SIGNS SHALL BE LOCATED IN A DEDICATED EASEMENT. SIGN MUST REMAIN OUT OF SIGHT TRIANGLES AS SHOWN ON PLANS.
  - ALL ASPHALT EDGES SHALL BE SAW CUT TO PROVIDE A GOOD LONGITUDINAL JOINT. MILL 1.5 FEET @ 1.5 INCHES DEEP MINIMUM TO PROVIDE A LONGITUDINAL LAP JOIN FOR FINAL SURFACE LAYER. NO MILLING SHALL BE LEFT FOR A PERIOD OF TIME GREATER THAN 48 HOURS BEFORE A STREET IS TO BE PAVED OR RESURFACED.
  - COMMON OPEN SPACE SHALL BE OWNED & MAINTAINED BY HOMEOWNERS ASSOCIATION.
  - ANY SPECIALTY STREET SIGNS INCLUDING POSTS SHALL BE SUBMITTED TO THE HARNETT COUNTY FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
  - ALL PUBLIC AND PRIVATE EASEMENTS SHALL BE RECORDED AS PART OF THE FINAL PLAT OF THE SUBDIVISION. EASEMENTS BASED ON CENTER OF UTILITY OR PIPE SHALL BE PER AS-BUILT LOCATIONS.
  - AREAS OF PARENT PARCEL THAT ARE NOT SUBDIVIDED TO CREATE SINGLE FAMILY RESIDENTIAL LOTS ARE TO REMAIN AS ONE PARCEL TO BE OWNED AND MAINTAINED BY THE HOME OWNERS ASSOCIATION OF THE NEIGHBORHOOD.
  - THIS DEVELOPMENT IS WITHIN ONE MILE OF A VOLUNTARY AGRICULTURAL DISTRICT.
  - THIS DEVELOPMENT IS WITHIN THE WATER SUPPLY WS-IV WATERSHED DISTRICT.
  - HOA WILL BE RESPONSIBLE FOR MAINTAINING SIDEWALKS, OPEN SPACE, MAIL KIOSK, & PRIVATE STORM ESMTS.

**SITE INFORMATION**

LOCATION: MAIN STREET  
BUJES CREEK, NC 27546

COUNTY: HARNETT

TOWNSHIP: NEILLS CREEK

PARENT PIN: 0680-09-2725

NC WATERSHED: WS-IV-P

ZONING: RA-30

LAND USE CLASS: MDR (MEDIUM DENSITY RES.)

PROPERTY BOUNDARY: 56.66 AC  
2.88 AC (NOT IN SUBDVN.)  
53.78 AC (REVISED BNDY.)

PROJECT AREA: 37.22 AC

**MINIMUM BUILDING SETBACKS:**

FRONT YARD: 25'

REAR YARD: 20'

SIDE YARD: 10'

SIDE YARD, CORNER LOT: 20'

**LOT ACREAGE:**

TOTAL NUMBER PROPOSED UNITS: 56

MINIMUM ALLOWABLE LOT SIZE: 12,500 SF

MINIMUM PROPOSED LOT SIZE: 12,500 SF

MAXIMUM PROPOSED LOT SIZE: 25,678 SF

AVERAGE PROPOSED LOT SIZE: 14,776 SF

MINIMUM LOT WIDTH: 70'

**OPEN SPACE / AMENITY:**

PROJECT AREA: 37.22 AC

REQUIRED OPEN SPACE (30%): 11.17 AC

OPEN SPACE PROVIDED: 11.19 AC (30.06%)

IMPROVED OPEN SPACE REQUIRED (10%): 1.12 AC

IMPROVED SPACE PROVIDED: 1.37 AC (12.26%)

**IMPERVIOUS AREAS:**

ROADWAYS: 3.02 AC

SIDEWALKS: 0.90 AC

LOTS (EST. 4,500 SF/LOT): 5.79 AC

TOTAL ON-SITE IMPERVIOUS AREA: 9.71 AC

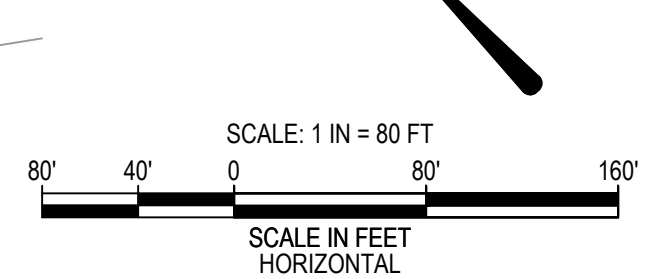
TOTAL ON-SITE IMPERVIOUS PERCENT: 25.30%

**UTILITY DEMANDS**

SEWAGE USAGE: 360 GPD/UNIT  
(56 UNITS x 360 GPD) = 20,160 GPD

WATER USAGE: 360 GPD/UNIT  
(56 UNITS x 360 GPD) = 20,160 GPD

- LEGEND:**
- STREET LIGHT
  - SIGN
  - WHEELCHAIR RAMP
  - CLUSTER MAILBOX UNIT
  - ROADWAY CENTER LINE
  - LOT LINE
  - RIGHT OF WAY LINE
  - SETBACK LINE
  - EASEMENT
  - VALLEY CURB & GUTTER
  - STANDARD CURB & GUTTER
  - SPILL CURB & GUTTER
  - FENCE
  - CONCRETE SIDEWALK
  - ASPHALT PAVEMENT



SEAL

*D. H. Curry*

REGISTERED PROFESSIONAL ENGINEER  
STATE OF NORTH CAROLINA  
026970

10/10/2023

**RETREAT AT NORTH MAIN**

**OVERALL SITE LAYOUT**

208 S. Fidelity Avenue  
Fayetteville, NC 27808  
T (919) 552-9849  
F (919) 552-2044

**Curry**  
ENGINEERING

NC LIC. NO. PA7938

FILE NO.: 2021039  
DATE: APRIL 11, 2022  
DRAWN BY: J. L. CURRY  
CHECKED BY: J. L. CURRY  
SCALE: 1" = 80'  
SHEET SIZE: 24" x 36"

**C3.0**