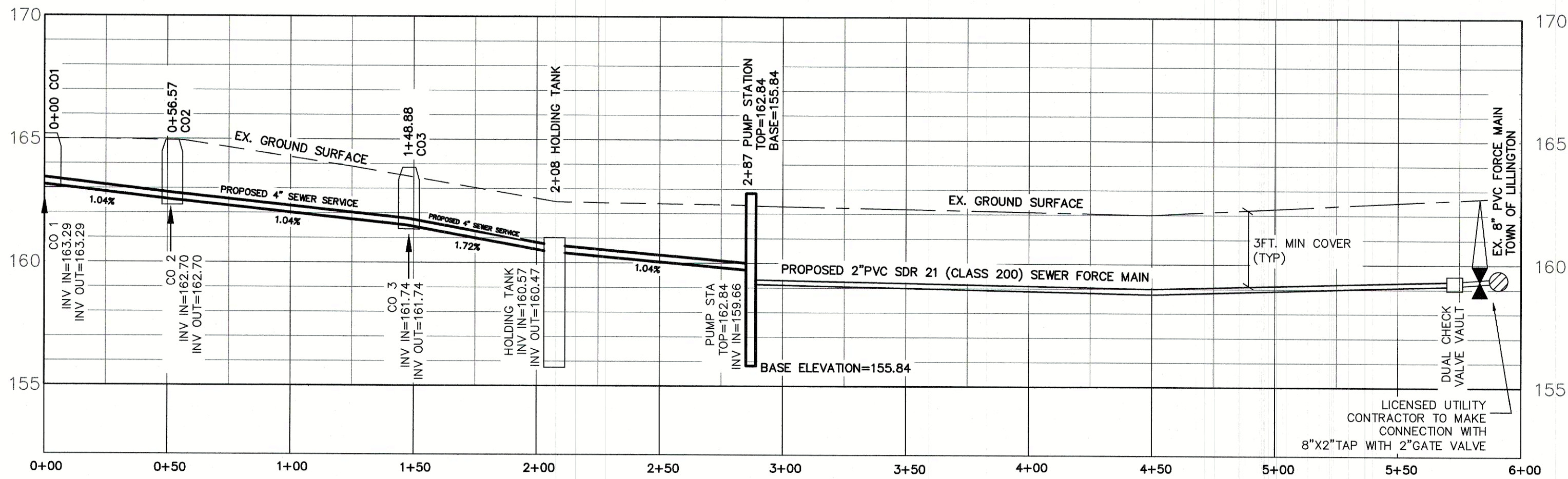


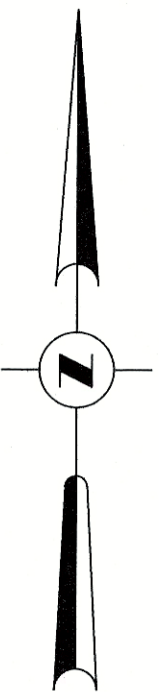
W:\HARMONY\2406A\Survey\DWG\HARMONY CHURCH r2_recover Duplex.dwg Last Plotted by: JAMES BURGESS for Green Engineering on Thursday, September 12, 2024 @ 2:09:04 PM

NOTES

- 1-MATERIALS FOR SEWER TAP AND CHECK VALVE TO RIGHT OF WAY MUST BE APPROVED BY THE TOWN OF LILLINGTON.
- 2-PUMP STATION WILL HAVE VISUAL ALARM.
- 3- 2-INCH TOWN OF LILLINGTON MATERIALS FROM TAP TO CHECK VALVE MUST MEET TOWN OF LILLINGTON SPECIFICATIONS FOR FORCE MAIN/WATER.
- 4-ALL FITTINGS MUST BE COMPRESSION BRASS, ALL FORCE MAIN SHALL BE SDR 21 (CLASS 200) PVC WITHIN NCDOT RIGHT OF WAY.
- 5-PLEASE CALL NC811 BEFORE DIGGING
- 6- ALL RIGHT OF WAY WORK MUST COMPLY WITH NCDOT MUTCD AND ENCROACHMENT AGREEMENT.



Alignment05
STA: 0+00 - 6+00
HORIZONTAL SCALE: 1"=40'
VERTICAL SCALE: 1"=4'

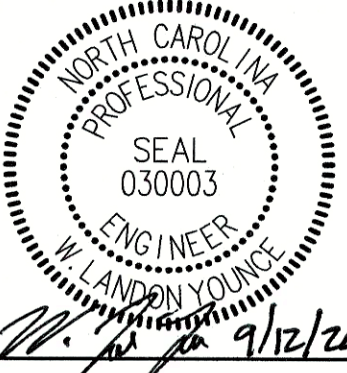
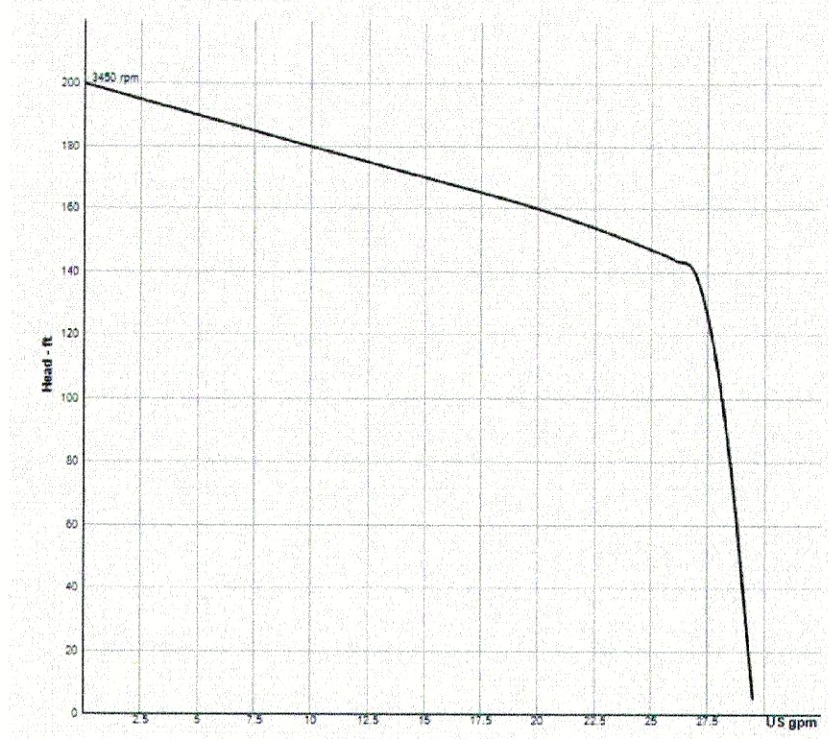


-Barnes Model ZSGV 48 " x 72 " Duplex Grinder Pump Package Station
P/N 116855-M- 48 " x 84 " Fiberglass Basin- Aluminum Cover With 2 " Bug-Free Vent, SS Channel Rolls with SS Piping, 1.25 PVC True-Union Ball Valves, 1.5 " SS Flexible Discharge Coupling (Loose), Float Tree Level Control, Factory Pre-Wired Junction Box, 4 " SCH40 Flex Inlet Fitting (Loose), Poly Pump Lifting Ropes, Padlocks for Cover and Panel
2HP Grinder Pump Model ZSGV2072L , 1PH/240V, 3450 RPM, 15 FLA, 30' Cord, 1.25 " NPT Discharge Fitting with Integral Check Valve/Anti-Siphon
Stealth R-202-22E Duplex Control Panel , 2HP Control Panel, NEMA 4X Non-Metallic Enclosure, Pump/Control Circuit Breakers, Alarm Light/Horn with Pushbutton Silence Switch, Terminal Blocks

SPECIFICATIONS

IMPELLER:
SEAL: CORD ENTRY:30 FT. (9.1 M) STD. CORD, CUSTOM MOLDED QUICK CONNECT, FOR SEALING AND STRAIN RELIEF
CORD: CSA/UL APPROVED, 12/4 TYPE SOW
DISCHARGE: 1 1/2" NPT
LIQUID TEMPERATURE:104°F (40°C) CONTINUOUS
VOLUME: CAST IRON ASTM A-48, CLASS 30
MOTOR HOUSING:CAST IRON ASTM A-48, CLASS 30
SEAL: PLATECAST IRON ASTM A-48, CLASS 30
CUTTER: PLATEHARDENED 440C STAINLESS STEEL, ROCKWELL C-55
SHAFT: 410 STAINLESS STEEL
O-RINGS:316L-N
HARDWARE: 300 SERIES STAINLESS STEEL
PAINT: POWDER COAT
UPPER BEARING: SINGLE ROW, BALL
OIL RADIAL & THRUST
LOWER BEARING: SINGLE ROW, BALL
OIL RADIAL & THRUST
LOAD: RADIAL
NEMA L-SINGLE PHASE TORQUE CURVE, OIL-FILLED, SQUIRREL CAGE INDUCTION (INCLUDES OVERLOAD PROTECTION IN THE MOTOR
NEMA B THREE PHASE TORQUE CURVE, CLASS F
SINGLE PHASE: CAPACITOR START/CAPACITOR RUN

Curve



GREEN ENGINEERING
WATER, WASTEWATER, SURVEYING, PLANNING, PROJECT MANAGEMENT
NORTH CAROLINA FIRM LICENSE: P-0115
303 GOLDSBORO STREET EAST, P.O. BOX 609 WILSON, N.C. 27893
TEL (252) 237-5365 FAX (252) 243-7489 OFFICE@GREENENG.COM

HARMONY BAPTIST CHURCH
3566 NC 210 S. BUNNLEVEL, NC 28323
BUNNLEVEL
HARNETT COUNTY, NORTH CAROLINA

NEW FELLOWSHIP HALL
AND PUMP STATION

REVISION	DATE	BY	DATE: September 12, 2024	CLIENT CODE: XXXXXX
			GRAPHIC SCALE	JOB NUMBER: XX-XXX
			0 40 80 SCALE IN FEET	FIELD BOOK: XXX
				CADFILE: HARMONY CHURCH r2
				ASCII FILE: LAST MODIFIED: 12-Sep-24
				MODIFIED BY: XXX
				SHEET NO. 1 OF 2

COMBINATION METER BASE INSTALLATION INSTRUCTIONS

-
- GRINDER PUMP STATION DATA**
- | |
|--|
| 5-25 GPM |
| FLOW RATE DEPENDS ON HEAD PRESSURE |
| 190' MAXIMUM |
| 0 GALLONS ABOVE PUMP RUN LEVEL |
| 1 1/2" Ø |
| 2 |
| 3,450 |
| 1Ø-240V OR 120V |
| Ø F. TO EXISTING FORCE MAIN CONNECTION |
- GRINDER PUMP STATION**
- FAILURE TO COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS WILL VOID WARRANTY.
- BALLAST REQUIREMENTS**
- A CONCRETE ANCHOR IS REQUIRED ON ALL MF3068.175 STATIONS

FAILURE TO COMPLY WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS WILL VOID WARRANTY.

A CONCRETE ANCHOR IS REQUIRED ON ALL MF3068.175 STATIONS

SPECIFIC CONCRETE DIMENSIONS ARE REQUIRED TO ACHIEVE NECESSARY BALLAST EFFECT

SEE INSTALLATION INSTRUCTIONS FOR FURTHER DETAILS

☐ .30" THK STEEL COVER WITH ASPHALT BITUMINOUS COATING
☒ .30" THK ALUMINUM COVER (SHOWING)
☐ .50" SOLID FIBERGLASS COVER
 COVERS HAVE A RATING OF 100# PER SQ. FT.

BASIN COVER LOCK WITH BRASS PAD LOCK (QTY 2)
 SIX (6) 3/8"-18 S.S. NICK HEX BOLTS ON A "D" DIA. B.C.

BASIN 4 DIA "D"
 2" NPT VENT (SHIPPED LOOSE)
 1.25" FLEXIBLE HOSE (SHIPPED LOOSE)
 2" NPT CONDUIT HUB (SHIPPED LOOSE FOR FIELD LOCATING) DEPTHS PER NEC AND LOCAL CODES
 8" C.I. CAULK HUB
 6" PVC - SCH. 40-80
 4" C.I. CAULK HUB
 4" PVC - SCH. 40-80
 4" PVC - SCH-35
 MALET PIPE FITTING SHIPPED LOOSE FOR FIELD INSTALLATION

1.25" TRUE-UNION PVC BALL VALVE
 12.00
 14.50
 22.00
 1.50" S.S. DISCHARGE FITTING
 *DISCHARGE PIPING SHOWN OUT OF TRUE POSITION
 DIM "A" (64" SHOWN)
 SUSPENDED MECHANICAL FLOATS WITH ADJ. WEIGHTS SHIPPED LOOSE
 BALLAST SUPPORT BLANKS
 POLYPROPYLENE LIFTING ROPE
 1.25" NPT COMBINATION FLAP CHECK / ANTI-SIPHON VALVE
 ALARM
 APPROX 360 GAL. ABOVE PUMP 1 ON LEVEL
 APPROX 162 GAL. PUMP 2 ON 4.00
 APPROX 137 GAL. PUMP 1 ON 4.00
 APPROX 113 GAL. PUMP 1 ON 4.00
 APPROX 58 GAL. PUMP OFF 10.00
 10.00

A*	B	C	D
84.00	42.00	46.00	44.50

NOTE:
 ALL DIMENSIONS TO BE .25 UNLESS OTHERWISE SPECIFIED.
 * BASIN DEPTHS IN 6 INCH INCREMENTS UP TO 56 INCHES, THEN IN 12 INCH INCREMENTS.
 CONSULT FACTORY FOR OTHER DEPTHS
 EACH PUMP DISPLACES APPROX. 3 GALLONS

PUMP OPTION:
 00V 2HP
 LOW HEAD
 00P 2HP
 HIGH HEAD

VALVE BOX COVER

7 1/2"

6"

5"

2' x 2' x 6" CONCRETE PAD

12 1/2"

20"

5 5/8"

TAMPED BACKFILL

CAST IRON VALVE BOX

6

3/16"

1 1/2"

F-2"



HARMONY BAPTIST CHURCH
3566 NC 210 S. BUNNLEVEL, NC 28323

GRINDER PUMP STATION

REVISION	DATE	BY	DATE: September 12, 2024	
			GRAPHIC SCALE	CLIENT CODE: XXXXX JOB NUMBER: XX-XXX FIELD BOOK: XXX CADFILE: HARMONY CHURCH ASCII FILE: LAST MODIFIED: 12-Sep-24 MODIFIED BY: XXX
			AS SHOWN	
				SHEET NO. 2 OF 2