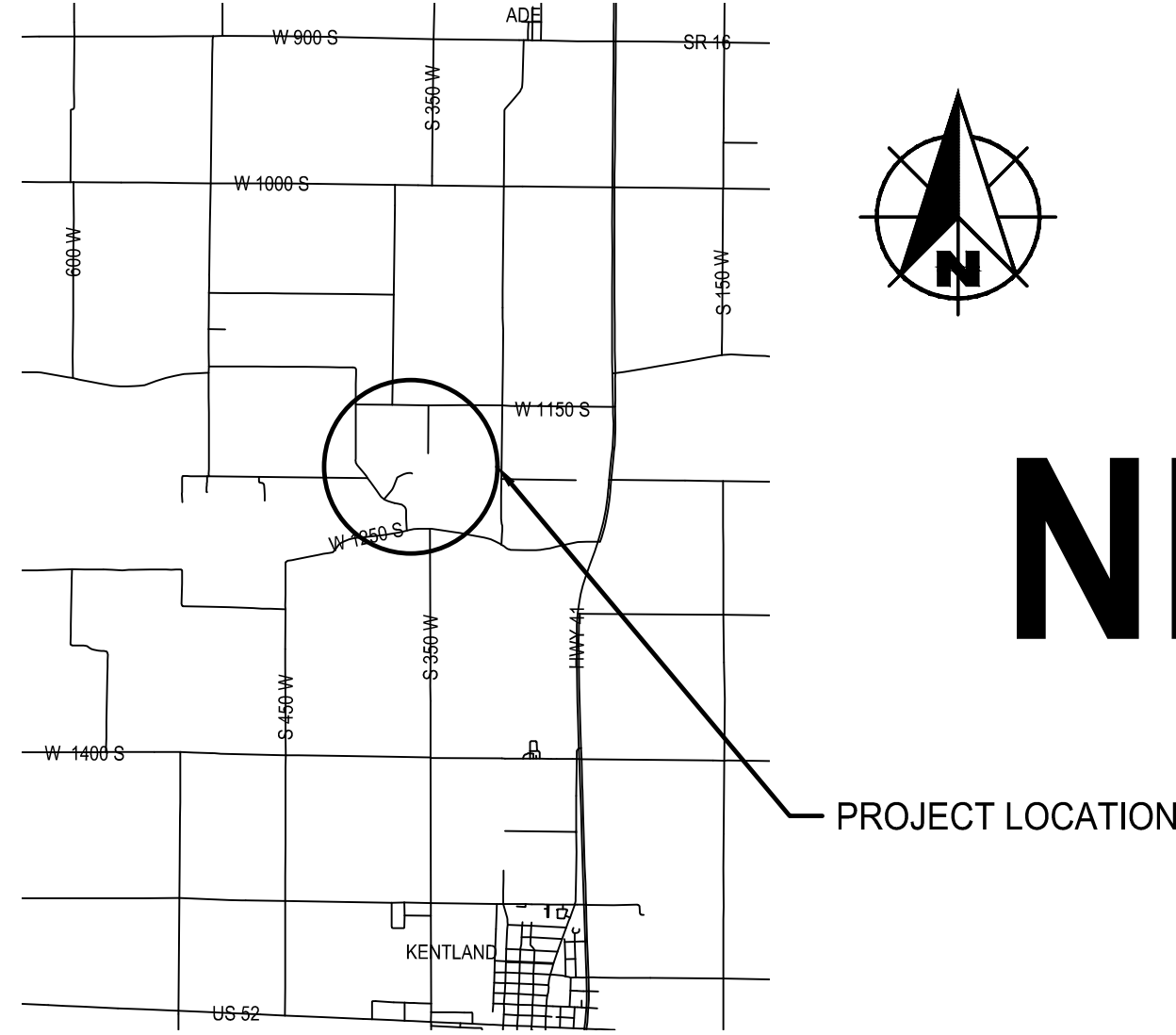


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

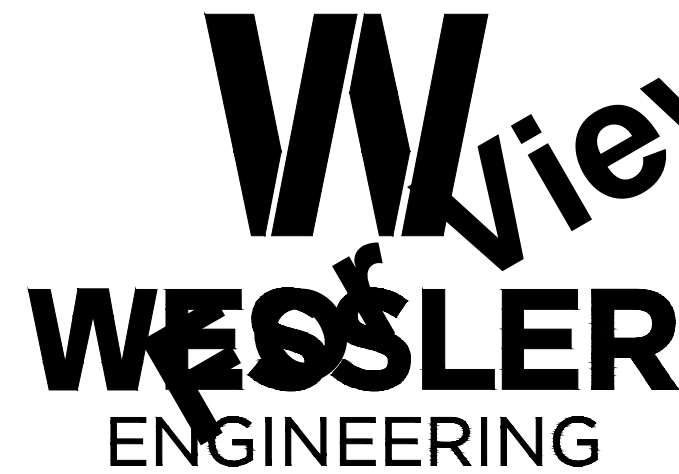
FOR THE
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA



KENTLAND, INDIANA
VICINITY MAP
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DRAWINGS PREPARED FOR:

NEWTON COUNTY COMMISSIONERS

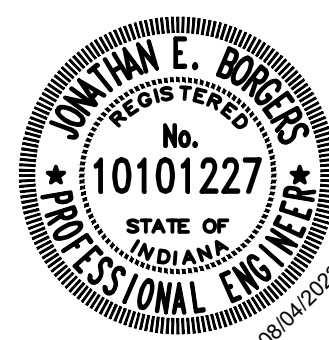



KYLE D. CONRAD - DISTRICT 1

TIM DRENTH - DISTRICT 2

GLEN "BUTCH" CAIN - DISTRICT 3

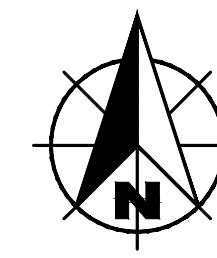
NEWTON COUNTY, INDIANA

AUGUST 2022

	 JONATHAN E. BORGERS REGISTERED ENGINEER STATE OF INDIANA NO. 10101227
	 WAYNE C. MOORE REGISTERED ENGINEER STATE OF INDIANA NO. 10707476

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HORIZONTAL AND VERTICAL CONTROL INFORMATION

NOTES:

1. A FIELD SURVEY WAS PERFORMED IN OCTOBER 2021.
2. COORDINATES (INDIANA STATE PLANE, WEST ZONE, NAD 83) AND ELEVATIONS (NAVD 88) ARE BASED ON INCORS.
3. UNITS ARE U.S. SURVEY FEET.
4. CONTROL POINTS WERE SET USING GPS.
5. A LEVEL LOOP WAS PERFORMED ON THE CONTROL POINTS AND BENCHMARKS.

BENCHMARK DESCRIPTION:

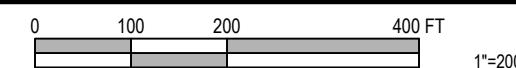
1. TBM NO. 9 - RAILROAD SPIKE SET IN POWER POLE IN CAMPGROUND, APPROXIMATELY 330' WEST OF THE CENTERLINE OF ROAD 400 WEST AND APPROXIMATELY 150' NORTH OF THE CENTERLINE OF ASPHALT ACCESS ROAD.
EL. 653.38
2. TBM NO. 10 - RAILROAD SPIKE SET IN POWER POLE APPROXIMATELY 45' SOUTHWEST OF THE COMMERCIAL BUILDING.
EL. 651.77

DRAWING INDEX	
SHEET NO.	DESCRIPTION
GENERAL	
01	TITLE SHEET
02	LOCATION AND PLAN INDEX
03	PLAN NOTES AND ABBREVIATIONS
04	PROCESS FLOW SHEET
05	SPECIFICATIONS
SITE SHEETS	
06	EXISTING SITE PLAN
07	NEW SITE PLAN
SITE SHEETS	
08 - 11	PLAN AND PROFILE - LINE A
12	PLAN AND PROFILE - LINE B
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SITE DETAILS	
16	GRINDER PUMP DETAILS
17	STORM STRUCTURE DETAILS
CAMPGROUND STRUCTURES	
18 - 19	DUMP STATION PLAN AND SECTIONS
20	SAND MOUND SYSTEM HYDRAULIC PROFILE
21	ELEVATED SAND MOUND ENLARGED PLAN
22 - 24	SAND MOUND NO. 1, NO. 2 AND NO. 3 PLAN AND DETAILS
25	SAND MOUND MONITORING DETAILS
26	SMS METERING VAULT AND SMS DOSING PUMP STATION PLAN, SECTION AND DETAILS
ELECTRICAL SHEETS	
27	SMS METERING VAULT AND SMS DOSING PUMP STATION ELECTRICAL PLANS
MISCELLANEOUS DETAILS	
28	MISCELLANEOUS DETAILS
EROSION CONTROL DETAILS	
29 - 30	EROSION CONTROL DETAILS

CONTROL POINTS				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP 1	2031332.97	2848352.05	652.19	MAGNAIL
CP 2	2031011.54	2848432.18	651.08	MAGNAIL
CP 3	2030788.13	2848451.13	650.95	MAGNAIL
CP 4	2031672.34	2848104.59	650.80	5/8" REBAR
CP 5	2031153.19	2847980.39	653.27	MAGNAIL
CP 6	2031195.42	2847743.23	652.58	MAGNAIL
CP 7	2030852.67	2847835.32	651.21	MAGNAIL
CP 8	2030669.93	2847633.78	650.78	MAGNAIL



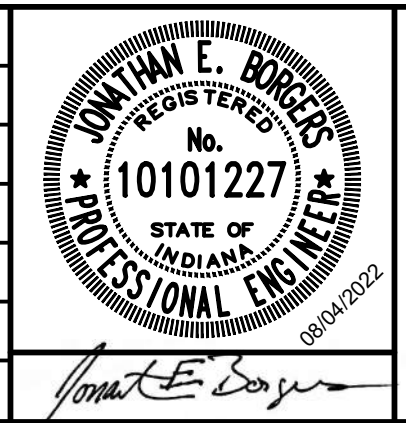
LOCATION AND SCOPE OF WORK PLAN



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	PROJECT NUMBER	247321-04-001				



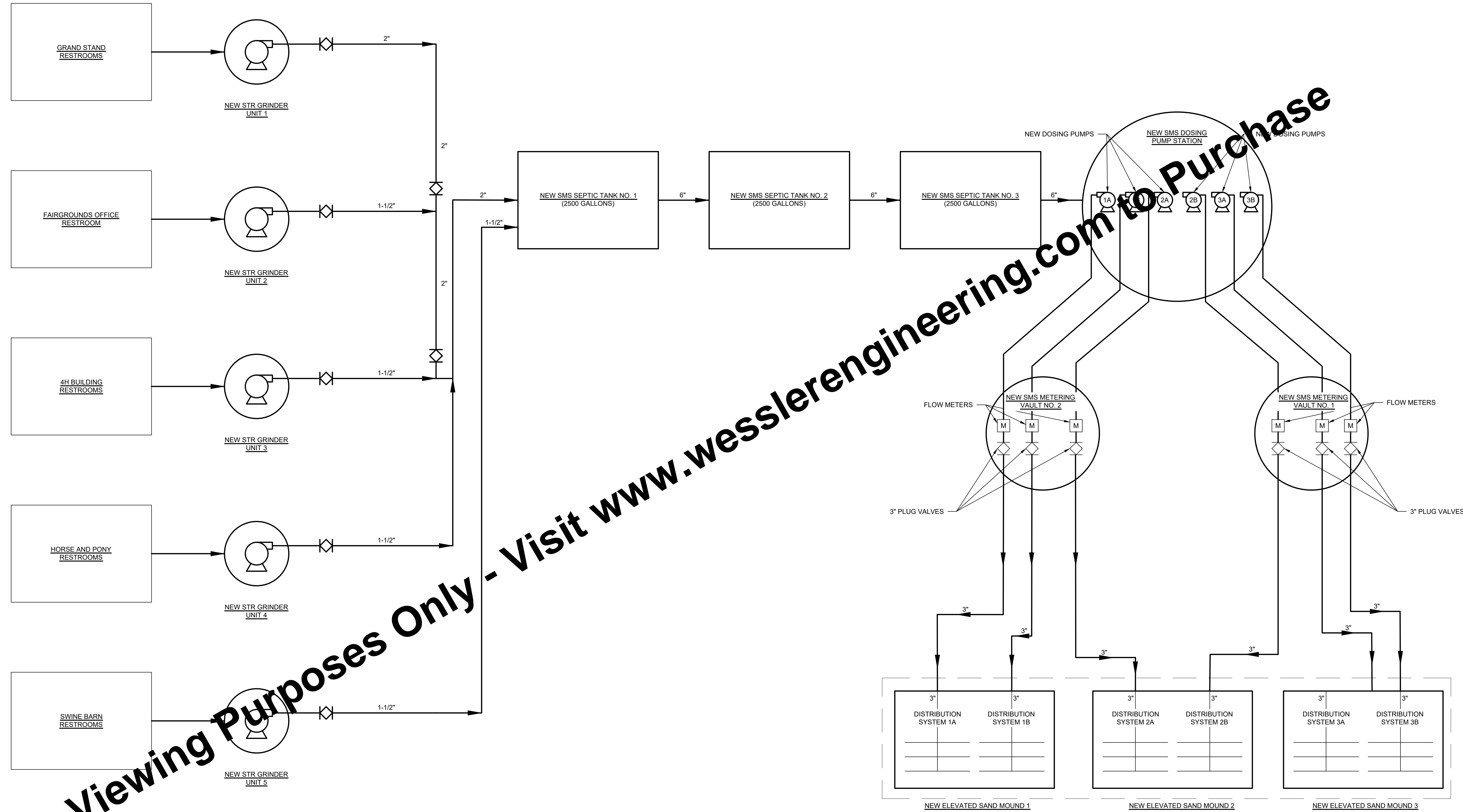
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

LOCATION AND PLAN INDEX

SHEET NO.	02
TOTAL SHEETS	30

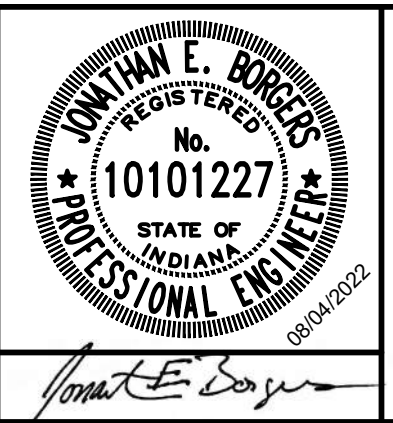
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PROCESS FLOW SCHEMATIC
NO SCALE

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	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PROCESS FLOW SCHEMATIC

SHEET NO.	04
TOTAL SHEETS	30

SPECIFICATIONS

2. ELEVATED SAND MOUND SYSTEM CONSTRUCTION
 - a. THE ELEVATED SAND MOUND SYSTEM SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE DRAWINGS AND SPECIFICATIONS, AND **410 IAC 6-10.1-92**.
 - b. SITE PREPARATION, TILLING, CONSTRUCTION, FINISH GRADING, AND SOIL STABILIZATION SHALL BE PERFORMED IN ACCORDANCE WITH THE APPROVED PLANS, AND SHALL NOT BE PERFORMED WHEN THE SOIL IS FROZEN.
 - c. THE SOIL SCIENTIST SHALL TEST THE SOIL IN THE BASAL AREA AT THE DEPTH OF INSTALLATION FOR WETNESS BEFORE TILLING. IF A SOIL SAMPLE WILL FORM A 1-INCH DIAMETER RIBBON WHEN ROLLED BETWEEN THE PALMS, THE SOILS IS TOO WET FOR TILLING. IF IT CRUMBLES, TILLING MAY PROCEED. IF THE SOIL IS POWDERY, IT IS TOO DRY AND SHOULD BE CAREFULLY MOISTENED WITH SPRINKLING EQUIPMENT AND LET DRY TO THE PROPER CONSISTENCY.
3. EFFLUENT FORCE MAIN
 - a. INSTALLATION OF EFFLUENT FORCE MAIN SHALL COMPLY WITH **410 IAC 6-10.1-93**.
 - b. TO MINIMIZE DISTURBANCE OF THE BASAL AREA, THE EFFLUENT FORCE MAIN MUST BE BROUGHT ABOVE GRADE PRIOR TO ENTERING THE BASAL AREA AND IT MUST BE EXTENDED UPWARD THROUGH THE INDOT SPECIFICATION 23 SAND TO THE POINT WHERE IT WILL ENTER THE AGGREGATE BED. THE EFFLUENT FORCE MAIN SHALL BE LAID IN THE AGGREGATE BED TO THE POINT OF CONNECTION TO THE MANIFOLD.
 - c. IF THE EFFLUENT FORCE MAIN IS INSTALLED PRIOR TO TILLING THE ELEVATED SAND MOUND SITE, REFER TO 410 IAC 6-10.1-93(B) FOR REQUIREMENTS. IF THE EFFLUENT FORCE MAIN IS INSTALLED AFTER TILLING AND PLACEMENT OF SAND, REFER TO 410 IAC 6-10.1-93(C) FOR REQUIREMENTS.
4. SITE PREPARATION
 - a. PREPARATION OF THE SITE SHALL BE IN ACCORDANCE WITH **410 IAC 6-10.1-94**.
 - b. VEGETATION THAT WOULD INTERFERE WITH THE SOILS EVALUATION, SYSTEM LAYOUT, OR SYSTEM CONSTRUCTION SHALL BE CUT AND REMOVED (NOT SCRAPED) PRIOR TO INSTALLATION WITHOUT CAUSING COMPACTION.
 - c. THE PORTION OF THE ELEVATED SAND MOUND SITE RECEIVING INDOT SPECIFICATION 23 SAND SHALL BE TILLED ALONG THE CONTOUR OF THE SITE TO A DEPTH OF 7" TO 14" WITH A CHISEL PLOW. A BACKHOE SHALL NOT BE USED.
5. PLACEMENT OF SAND ON THE BASAL AREA
 - a. PLACEMENT OF SAND ON THE BASAL AREA SHALL BE IN ACCORDANCE WITH **410 IAC 6-10.1-95**.
 - b. THE BASAL AREA SHALL BE COVERED USING SAND THAT MEETS INDOT SPECIFICATION 23 SAND.
 - c. SAND SHALL BE PLACED ON THE TILLED AREA IMMEDIATELY AFTER TILLING THE SITE TO PROTECT THE TILLED SURFACES FROM DAMAGE BY PRECIPITATION.
 - d. DEPTH OF SAND SHALL BE A MINIMUM OF 18 INCHES UNDER THE AGGREGATE BED.
 - e. SAND SHALL BE PLACED ON THE TILLED SURFACE FROM THE ENDS OR UPSLOPE EDGE OF THE ELEVATED SAND MOUND.
 - f. AT LEAST 6" OF INDOT SPEC. 23 SAND SHALL BE KEPT BETWEEN THE VEHICLE TRACKS OR TIRES AND THE TILLED SOIL OF THE SITE.
 - g. THE DEPTH OF SAND AROUND THE AGGREGATE BED SHALL BE THE SUM OF THE DEPTH OF SAND UNDER THE AGGREGATE BED AND THE DEPTH OF THE AGGREGATE BED.
 - h. A ONE (1) FOOT WIDE BORDER OF INDOT SPEC. 23 SAND SHALL SURROUND THE AGGREGATE BED, LEVEL WITH THE TOP OF THE AGGREGATE BED.
6. CONSTRUCTION OF THE AGGREGATE BED
 - a. CONSTRUCTION OF THE AGGREGATE BED SHALL BE IN ACCORDANCE WITH **410 IAC 6-10.1-96**.
 - b. THE SURFACE OF THE INDOT SPEC. 23 SAND AT THE SAND/AGGREGATE INTERFACE SHALL BE SMOOTH AND FREE OF RUTS AND DEPRESSIONS BEFORE THE PLACEMENT OF THE AGGREGATE.
 - c. THE DEPTH OF AGGREGATE IN THE AGGREGATE BED FROM SIDE TO SIDE AND END TO END SHALL BE AT LEAST 8 INCHES BELOW THE PRESSURE DISTRIBUTION LATERALS, PLUS THE OUTSIDE DIAMETER OF THE PRESSURE LATERAL. THE AGGREGATE SHALL BE PLACED AT LEAST 6 INCHES ABOVE THE PRESSURE DISTRIBUTION LATERAL.
 - d. THE AGGREGATE BED SHALL BE COVERED WITH BARRIER MATERIAL AS NOTED ON THE PLANS.
 - e. THE BOTTOM OF THE AGGREGATE BED SHALL BE LEVEL FOR THE ENTIRE LENGTH AND WIDTH.
7. PLACEMENT OF SOIL MATERIAL AND FINAL FILL
 - a. PLACEMENT OF SOIL MATERIALS AND FINAL FILL SHALL BE IN ACCORDANCE WITH **410 IAC 6-10.1-97**.
 - b. IF THE GROUND SURFACE ALONG THE PERIMETER OF THE INDOT SPECIFICATION 23 SAND WAS NOT TILLED DURING PREPARATION OF THE ELEVATED SAND MOUND SITE, THE PERIMETER SHALL BE TILLED IN ACCORDANCE WITH THE REQUIREMENTS OF **410 IAC 6-10.1-94**.
 - c. THE SOIL MATERIAL COVER SHALL:
 - 1) HAVE A TEXTURE OTHER THAN VERY SANDY OR LOAMY SAND;
 - 2) BE CAPABLE OF SUSTAINING PLANT GROWTH; AND
 - 3) BE PLACED ON THE INDOT SPECIFICATION 23 SAND WITHOUT CAUSING COMPACTED SOIL MATERIAL.
 - d. PRIOR TO PLACEMENT OF THE SOIL COVER MATERIAL, THE SURFACE OF THE INDOT SPEC. 23 SAND SHALL BE PREPARED BY:
 - 1) MAINTAINING A MINIMUM GRADE OF AT LEAST THREE-TO-ONE (3:1); AND
 - 2) PREPARING THE SURFACE OF THE INDOT SPEC. 23 SAND SO THAT IT IS SMOOTH AND FREE OF RUTS AND DEPRESSIONS.
 - e. THE AGGREGATE AND SAND OF THE ELEVATED SAND MOUND SHALL BE COVERED WITH A MINIMUM OF 12 INCHES OF SOIL MATERIAL. AN ADDITIONAL 6 INCHES OF THAT SOIL MATERIAL, FOR A TOTAL OF 18 INCHES, SHALL BE PLACED OVER THE CENTER LINE OF THE LONG AXIS OF THE AGGREGATE BED AND CROWNED TO PROMOTE SURFACE RUNOFF AWAY FROM THE ELEVATED SAND MOUND.
 - f. SOIL MATERIAL SHALL BE PLACED ON THE TILLED PORTION OF THE SAND PERIMETER AND GRADED SO IT HAS A MINIMUM FINAL GRADE ON ALL SIDES OF 3:1.
 - g. THE ELEVATED SAND MOUND SHALL BE SEEDED OR SODDED WITH GRASSES ADAPTED TO THE AREA. IF SEEDED, THE ELEVATED SAND MOUND SHALL BE PROTECTED BY A COVER OF STRAW, BURLAP, OR SOME OTHER BIODEGRADABLE MATERIAL THAT WILL PROTECT IT AGAINST EROSION.

SPECIFICATIONS

THE FOLLOWING SPECIFICATIONS APPLY TO THE ELEVATED SAND MOUND SYSTEM (SMS) ON-SITE TREATMENT PROCESS, CONSISTING OF THE SMS SEPTIC TANKS, DOSING PUMP STATION, AND ELEVATED SAND MOUNDS, AND THE CAMPGROUND DUMP STATION. FOR GENERAL SPECIFICATIONS, AND REQUIREMENTS FOR THE LOW-PRESSURE SEWER SYSTEM (LPSS), REFER TO THE PROJECT MANUAL.

GENERAL

1. CONSTRUCT ON-SITE SEWAGE DISPOSAL SYSTEM IN ACCORDANCE WITH ALL PERMITS AND STATE AND COUNTY REGULATIONS, INCLUDING **RULE 410 IAC 6-10.1 COMMERCIAL ON-SITE SEWAGE SYSTEMS**.
2. FOR EQUIPMENT, MATERIALS, AND OTHER ASPECTS OF THE CONSTRUCTION NOT SPECIFIED HERE OR ELSEWHERE IN THE DRAWINGS, REFER TO THE PROJECT MANUAL.
3. CONTRACTOR INSTALLING THE SYSTEM MUST BE APPROVED BY THE NEWTON COUNTY HEALTH DEPARTMENT AT THE CONSTRUCTION OF SUCH SYSTEMS.
4. PRIOR TO COMMENCING WITH ANY CONSTRUCTION WORK ON THE SITE, INSTALL TEMPORARY SIGNAGE AROUND THE ELEVATED SAND MOUND SYSTEM SITE TO PREVENT DISTURBANCE BY CONSTRUCTION TRAFFIC BEFORE, DURING, AND AFTER INSTALLATION OF THE SYSTEM.
5. THE CONTRACTOR SHALL EMPLOY THE SERVICES OF AN INDIANA STATE DEPARTMENT OF HEALTH (SDH) APPROVED SOIL SCIENTIST AT CERTAIN STAGES OF THE WORK TO CONFIRM THE PROPER CONDITIONS ARE PRESENT AND CONSTRUCTION IS IN CONFORMANCE WITH THE APPROVED PLAN. THE SOIL SCIENTIST SHALL BE ON SITE PRIOR TO THE START OF TILLING THE SUBSURFACE TO INSPECT THE EXISTING SOIL, DURING THE TILLING PROCEDURE, PRIOR TO THE INSTALLATION OF THE SAND LAYER AND AGGREGATE BED, AND PRIOR TO AND AFTER THE INSTALLATION OF THE SOIL COVER, AND ANY OTHER TIMES THE ENGINEER FEELS HE OR SHE NEEDS TO INSPECT THE FINISH SECTION AND VERIFICATION.

SEWERS AND FORCE MAINS

1. ALL GRAVITY SEWERS, INCLUDING BUILDING SEWERS AND INTERCONNECTING PIPE BETWEEN STRUCTURES OF THE SMS AND DUMP STATION SHALL BE PVC OR ABS PIPE CONFORMING TO **410 IAC 6-10.1-75(A)(1)**.
2. FORCE MAINS FROM THE GRINDER UNIT (MINIMUM 8" AND C) AND THE EFFLUENT FORCE MAINS FROM THE SMS DOSING PUMP STATION TO THE MANIFOLD SHALL BE PVC OR ABS PIPE CONFORMING TO **410 IAC 6-10.1-75(A)(2)**, OR HDPE DR-11 CONFORMING SECTION 02560 OF THE PROJECT MANUAL.
3. THE MANIFOLD AND PRESSURE DISTRIBUTION PIPES SHALL BE PVC OR ABS CONFORMING TO **410 IAC 6-10.1-75(A)(2)**.
4. GASKETED CONNECTIONS AND GROMMET JOINTS MUST BE USED ON PRESSURE SEWERS WHEN THEY ARE LOCATED TEN (10) FEET OR LESS FROM A WATER LINE.
5. ALL BUILDING SEWERS SHALL BE A MINIMUM OF 6" IN DIAMETER, AND BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" PER FOOT.

SEPTIC TANKS AND DUMP STATION HOLDING TANKS (PRE-CAST CONCRETE)

1. SEPTIC TANKS AND HOLDING TANKS SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH **410 IAC 6-10.1-68 AND 69**.
2. SEPTIC TANKS SHALL BE 3,000 GALLON CAPACITY EACH (TOTAL OF 3 TANKS FOR A CAPACITY OF 9,000 GALLONS). DUMP STATION HOLDING TANKS SHALL BE 2,000 GALLON CAPACITY EACH (TOTAL OF 3 TANKS FOR A CAPACITY OF 6,000 GALLONS). TANKS SHALL BE SINGLE COMPARTMENT STYLE AS MANUFACTURED BY RENSSELAER SEPTIC TANKS, 1211 NORTH WESTON ST., RENSSELAER, IN 47978, OR APPROVED EQUAL FROM MANUFACTURER PRE-APPROVED BY THE INDIANA STATE AND NEWTON COUNTY DEPARTMENTS OF HEALTH.
3. ALL TANKS SHALL BE PRE-CAST CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 5,090 PSI @ 28 DAYS; WITH 6X6 W8.0 X W8.0 WELDED WIRE FABRIC REINFORCEMENT IN TANK LID AND 6X6 W10.0 X W10.0 IN TANK SIDES AND BOTTOM; AND DESIGNED FOR 3 FEET OF COVER AND AN ALLOWABLE WHEEL LOAD OF 2,500 LBS. COAT ALL SURFACES OF TANK ABOVE THE LIQUID LEVEL WITH AIRLESS ASPHALT.
4. PROVIDE WATERTIGHT CONNECTIONS AT ALL JOINTS AND PIPE PENETRATIONS TO PREVENT INFILTRATION OF GROUND WATER. PIPE CONNECTIONS SHALL BE POLY IV CLOSED END BOOT SEAL BY POLYLOK, INC, OR EQUAL FROM PRE-APPROVED PIPE CONNECTORS LIST OF THE INDIANA STATE AND NEWTON COUNTY DEPARTMENTS OF HEALTH.
5. OUTLET FILTER IN SMS SEPTIC TANK NO. 3, TO THE DOSING PUMP STATION, SHALL BE PL-525 BY POLYLOK, INC., OR EQUAL FROM PRE-APPROVED LIST OF THE INDIANA STATE AND NEWTON COUNTY DEPARTMENTS OF HEALTH.

SMS DOSING PUMP STATION

1. SMS DOSING PUMP STATION SHALL CONFORM TO SECTION 11200 OF THE PROJECT MANUAL.
2. SMS DOSING PUMP STATION SHALL CONSIST OF A WET WELL WITH A TOTAL OF SIX SMS DOSING PUMPS AND TWO VALVE VAULTS, EACH WITH THREE FLOW METERS FOR MEASURING PUMPED EFFLUENT TO THE SMS ELEVATED SAND MOUNDS.
3. THE WET WELL SHALL INCLUDE A TOTAL OF FOUR MERCURY FLOAT SWITCHES FOR MONITORING OF THE WATER LEVEL IN THE STRUCTURE.
4. THE DESIGN AND CONSTRUCTION OF THE SMS DOSING PUMP STATION SHALL PROVIDE FOR THE FOLLOWING OPERATIONS:
 - a. THE WET WELL WILL RECEIVE FILTERED EFFLUENT FROM THE SMS SEPTIC TANK NO. 3. WHEN THE WATER LEVEL IN THE WET WELL RISES TO THE LEVEL OF THE SECOND FLOAT SWITCH (PUMP ON), SMS DOSING PUMP NO. 1A WILL BE ENERGIZED, AND CONTINUE TO PUMP UNTIL THE FIRST FLOAT SWITCH (PUMP OFF) IS DISENGAGED. THE TOTAL VOLUME BETWEEN THE PUMP ON AND PUMP OFF FLOATS SHALL BE 300 GALLONS (APPROXIMATELY 6.13" IN A 10' DIAMETER WET WELL).
 - b. SMS DOSING PUMP NO. 1A SHALL DISCHARGE THROUGH A 3-INCH FORCE MAIN TO DISTRIBUTION NETWORK A OF ELEVATED SAND MOUND NO. 1. THE VOLUME OF FLOW SHALL BE MEASURED BY FLOW METER 1A, AND RECORDED ON A TOTALIZER FOR DISTRIBUTION NETWORK 1A LOCATED IN THE PUMP STATION CONTROL PANEL.
 - c. UPON COMPLETION OF THE PUMP CYCLE TO DISTRIBUTION NETWORK 1A, THE LEAD PUMP SHALL ALTERNATE TO DOSING PUMP NO. 2A, WHICH SHALL COMPLETE A PUMP CYCLE AS DESCRIBED ABOVE FOR DOSING PUMP NO. 1A, BUT WILL DISCHARGE TO DISTRIBUTION NETWORK 2A IN ELEVATED SAND MOUND NO. 2. SIMILARLY, AFTER EACH PUMP CYCLE, THE LEAD PUMP SHALL BE ALTERNATED IN THE FOLLOWING SEQUENCE 1A, 2A, 3A, 1B, 2B, 3B.
 - d. IF ONE DOSING PUMP IS UNABLE TO DRAW THE WATER LEVEL IN THE WET WELL DOWN TO THE PUMP OFF ELEVATION (FLOAT SWITCH NO. 1), AND THE WATER LEVEL IN THE WET WELL CONTINUES TO RISE, REACHING FLOAT SWITCH NO. 3, A LAG PUMP WILL BE ENERGIZED AND BOTH PUMPS WILL RUN UNTIL THE WATER LEVEL IS DRAWN DOWN TO THE PUMP OFF LEVEL. THE LAG PUMP SHALL BE IDENTIFIED AS THE PUMP THAT WOULD BE THE LEAD PUMP IN FOLLOWING SEQUENCE. FOR INSTANCE, DOSING PUMP 2A WILL BE THE LAG PUMP WHEN 1A IS THE LEAD PUMP. DOSING PUMP 3A WILL BE THE LAG PUMP WHEN 2A IS THE LEAD PUMP, AND SO ON. AT THE END OF A CYCLE WHEN A LEAD AND LAG PUMP ARE REQUIRED TO DRAW THE WATER LEVEL DOWN, THE LEAD PUMP SHALL BE ALTERNATED TO THE PUMP IN SEQUENCE AFTER THE LAG PUMP THAT WAS OPERATED DURING THE PREVIOUS CYCLE.
 - e. IF TWO PUMPS ARE UNABLE TO DRAW THE WATER LEVEL IN THE WET WELL DOWN, AND THE LEVEL CONTINUES TO RISE, REACHING FLOAT SWITCH NO. 4, A HIGH WATER ALARM WILL BE TRIGGERED, AND ALL SIX DOSING PUMPS SHALL BE ENERGIZED UNTIL THE PUMP OFF LEVEL (FLOAT SWITCH NO. 1) IS REACHED.

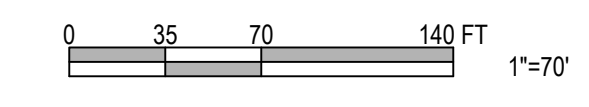
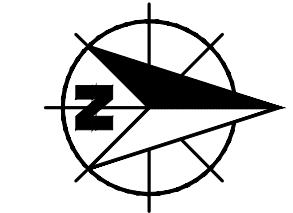
ELEVATED SAND MOUND SYSTEM (SMS) SPECIFICATIONS AND REQUIREMENTS

1. SITE PROTECTION
 - a. PROTECTION OF THE SITE, SPECIFICALLY THE AREA WHERE THE NEW ELEVATED SAND MOUNDS WILL BE CONSTRUCTED SHALL BE IN CONFORMANCE WITH **410 IAC 6-10.1-91**.
 - b. BEFORE THE START OF ANY CONSTRUCTION ON THE PROPERTY, THE FOLLOWING AREAS MUST BE STAKED OUT AND PROTECTED FROM DISTURBANCE:
 - 1) THE SOIL ABSORPTION SYSTEM AREA
 - 2) THE DISPERSAL AREA
 - 3) THE SUBSURFACE DRAINAGE SYSTEM AREA
 - c. SPECIAL CAUTION SHALL BE TAKEN TO PREVENT WHEELED AND TRACKED VEHICLES FROM COMPACTING THE AREA WHERE THE ELEVATED SAND MOUND SOIL ABSORPTION SYSTEM WILL BE CONSTRUCTED. ALL WORK ON THE SMS INVOLVING HEAVY EQUIPMENT MUST BE DONE UPSLOPE OF THE MOUND OR FROM ONE END TO AVOID SOIL COMPACTION.

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	PROJECT NUMBER	247321-04-001				
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM NEWTON COUNTY COMMISSIONERS NEWTON COUNTY, INDIANA SPECIFICATIONS						
						SHEET NO.
						05
						TOTAL SHEETS
						30



- NOTES:
- EXISTING PLASTIC DRAIN TILE INVERT IS APPROXIMATE. IT IS BASED ON MAPS PROVIDED FOR THE FAIRGROUNDS. TILE WAS INSTALLED IN 1981 AT A DEPTH RANGING FROM 3' TO 4' DEEP.
 - EXISTING STRUCTURES SHOT DURING SURVEY. EXISTING INVERT IS BOTTOM OF EXISTING STRUCTURES. CONTRACTOR TO VERIFY DEPTHS, PIPE AND PIPE ROUTING PRIOR TO CONSTRUCTION.

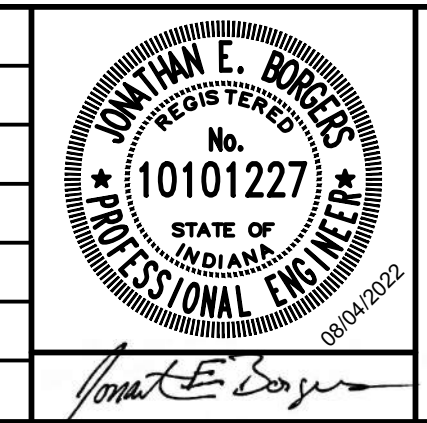


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EXISTING SITE PLAN
SCALE: 1" = 70'

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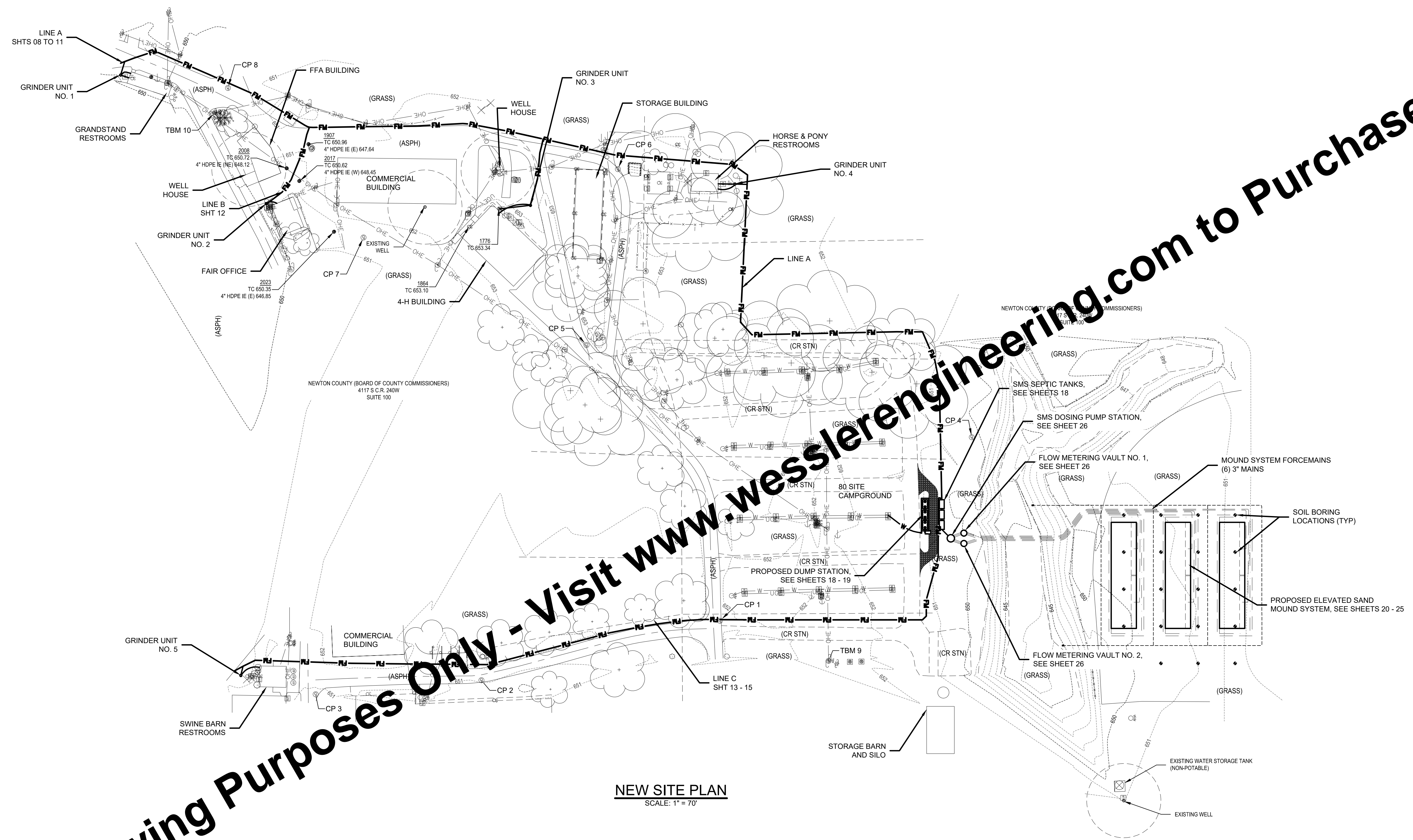
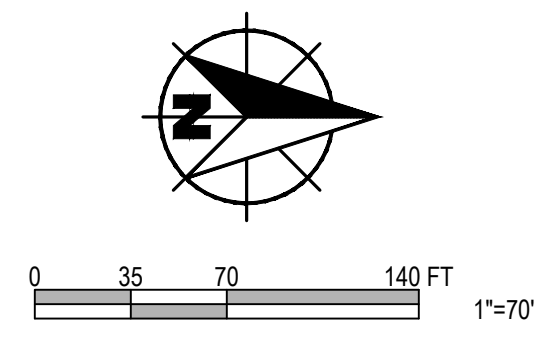


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

EXISTING SITE PLAN

SHEET NO.	06
TOTAL SHEETS	30

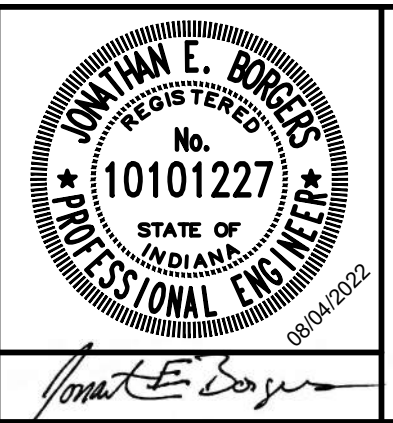


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NEW SITE PLAN
SCALE: 1" = 70'

Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-S1-NEW.dwg | Layout: 07 | Plotter: 08/04/22 @ 07:01:18 | LastSavedBy: CurtisG

SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				

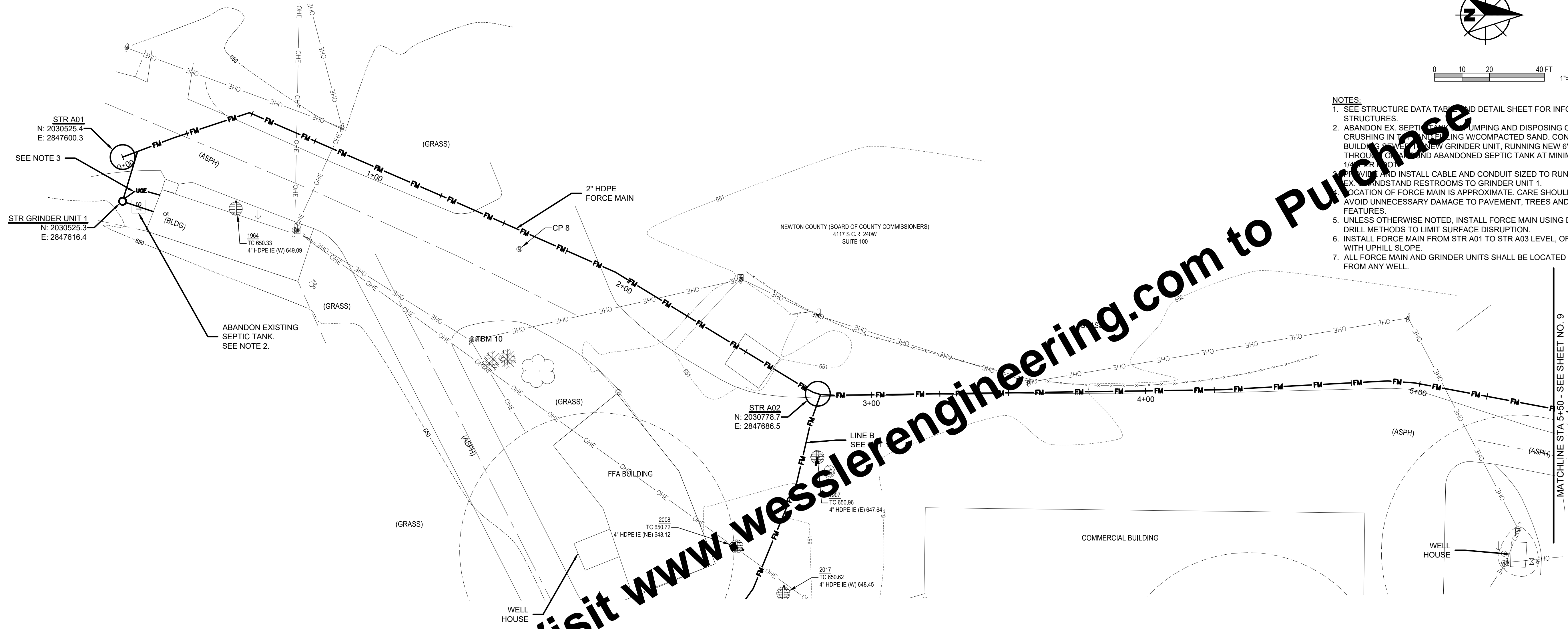
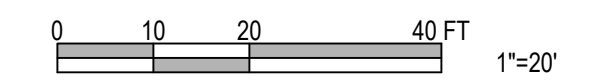
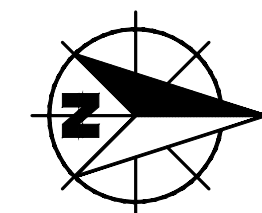


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

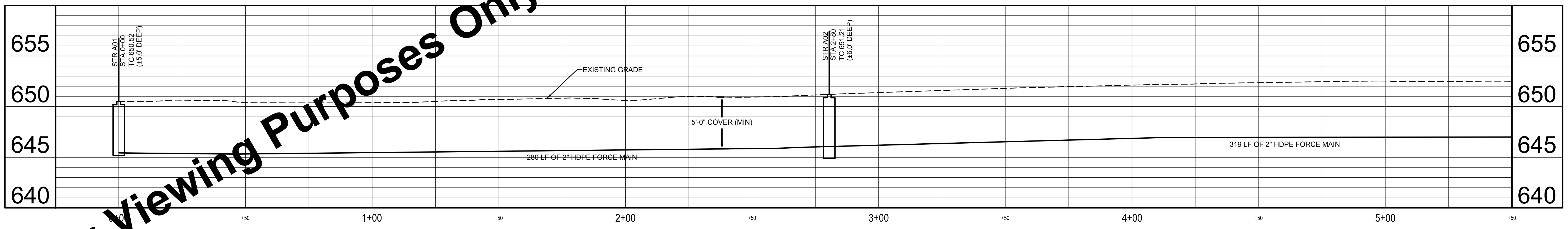
NEW SITE PLAN

SHEET NO.	07
TOTAL SHEETS	30



- NOTES:**
1. SEE STRUCTURE DATA TABLE AND DETAIL SHEET FOR INFORMATION ON STRUCTURES.
 2. ABANDON EX. SEPTIC TANK BY PUMPING AND DISPOSING OF ALL CONTENTS, CRUSHING IN PLACE, COVERING W/COMPACTED SAND, CONNECT EX. BUILDING TO NEW GRINDER UNIT, RUNNING NEW 6" LATERAL THROUGH EX. SAND AND ABANDONED SEPTIC TANK AT MINIMUM SLOPE OF 1/4" PER FOOT.
 3. PROVIDE AND INSTALL CABLE AND CONDUIT SIZED TO RUN POWER FROM EX. UNDERSTAND RESTROOMS TO GRINDER UNIT 1.
 4. LOCATION OF FORCE MAIN IS APPROXIMATE. CARE SHOULD BE TAKEN TO AVOID UNNECESSARY DAMAGE TO PAVEMENT, TREES AND OTHER SURFACE FEATURES.
 5. UNLESS OTHERWISE NOTED, INSTALL FORCE MAIN USING DIRECTIONAL DRILL METHODS TO LIMIT SURFACE DISRUPTION.
 6. INSTALL FORCE MAIN FROM STR A01 TO STR A03 LEVEL, OR CONSISTENT WITH UPHILL SLOPE.
 7. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.

PLAN - LINE A
SCALE: 1" = 20'

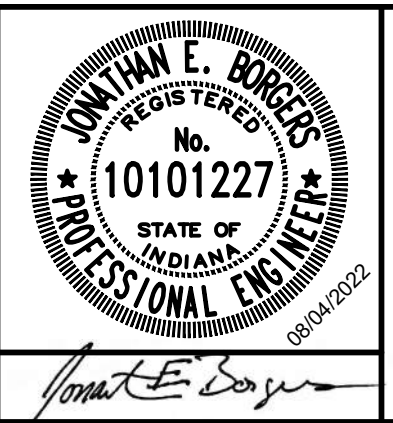


PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-PP-A.dwg | Layout: 08 | Plotter: 08/04/22 @ 06:51:48 | LastSavedBy: CurtisG

SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				

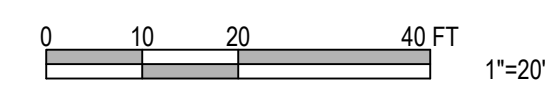
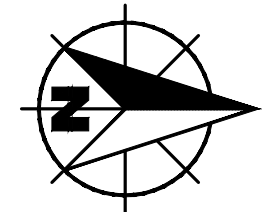


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

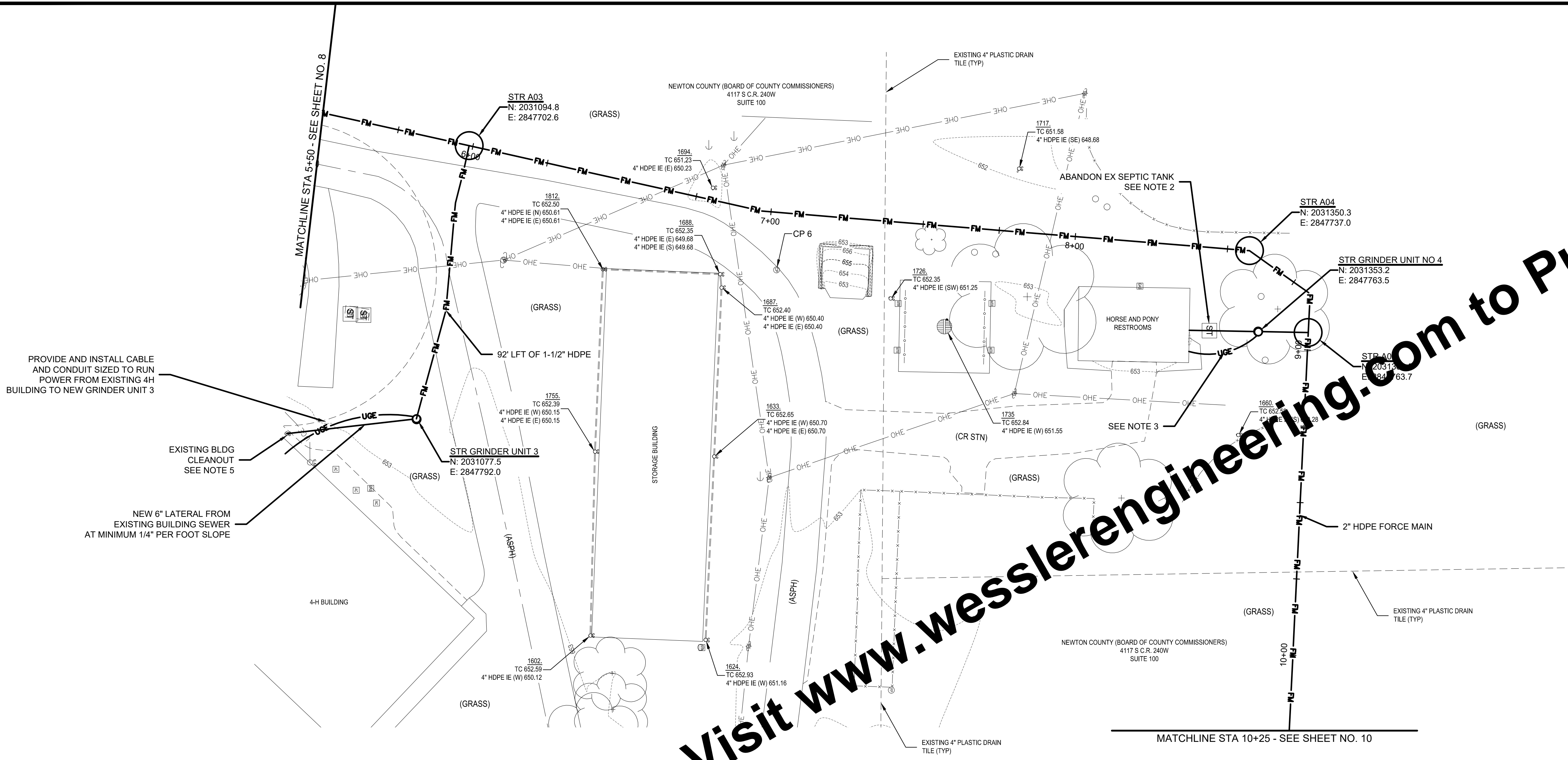
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE A

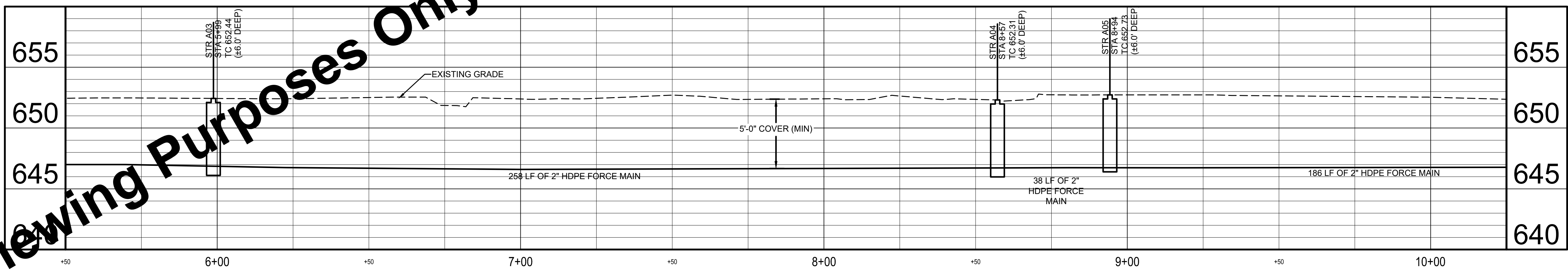
SHEET NO.	08
TOTAL SHEETS	30



- NOTES:**
- SEE STRUCTURE DATA SHEET AND DETAIL SHEET FOR INFORMATION ON STRUCTURES.
 - ABANDON EX SEPTIC TANK BY PUMPING AND DISPOSING OF ALL CONTENTS, CRUSHING TO 1/2" AND FILLING W/COMPACTED SAND. CONNECT EX BUILDING SEWER TO NEW GRINDER UNIT, RUNNING NEW 6" LATERAL THROUGH OR AROUND ABANDONED SEPTIC TANK AT MINIMUM SLOPE OF 1/4" PER FOOT.
 - REMOVE AND INSTALL CABLE AND CONDUIT SIZED TO RUN POWER FROM GRANDSTAND RESTROOMS TO GRINDER UNIT 4.
 - LOCATION OF FORCE MAIN IS APPROXIMATE. CARE SHOULD BE TAKEN TO AVOID UNNECESSARY DAMAGE TO PAVEMENT, TREES AND OTHER SURFACE FEATURES.
 - VERIFY DEPTH OF BUILDING SEWER AT CLEANOUT TO DETERMINE REQUIRED SERVICE LATERAL INVERT ELEVATION AT GRINDER UNIT 3.
 - INSTALL FORCE MAIN FROM STR A03 TO STR A05 LEVEL, OR WITH CONSTANT DOWNSLOPE TO CREATE A HIGH POINT IN MAIN AT STRUCTURE A03.
 - ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.



PLAN - LINE A
SCALE: 1" = 20'

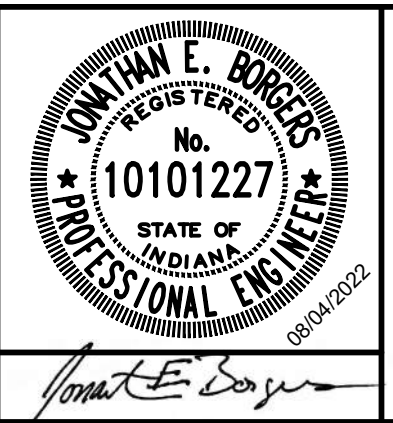


PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-PP-A.dwg | Layout: 09 | Plotter: 08/04/22 @ 06:51:56 | LastSavedBy: CollinG

SCALE VERIFICATION BAR IS ONE INCH LONG ON ORIGINAL DRAWING	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
	CHECKED BY	JEB				
	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				

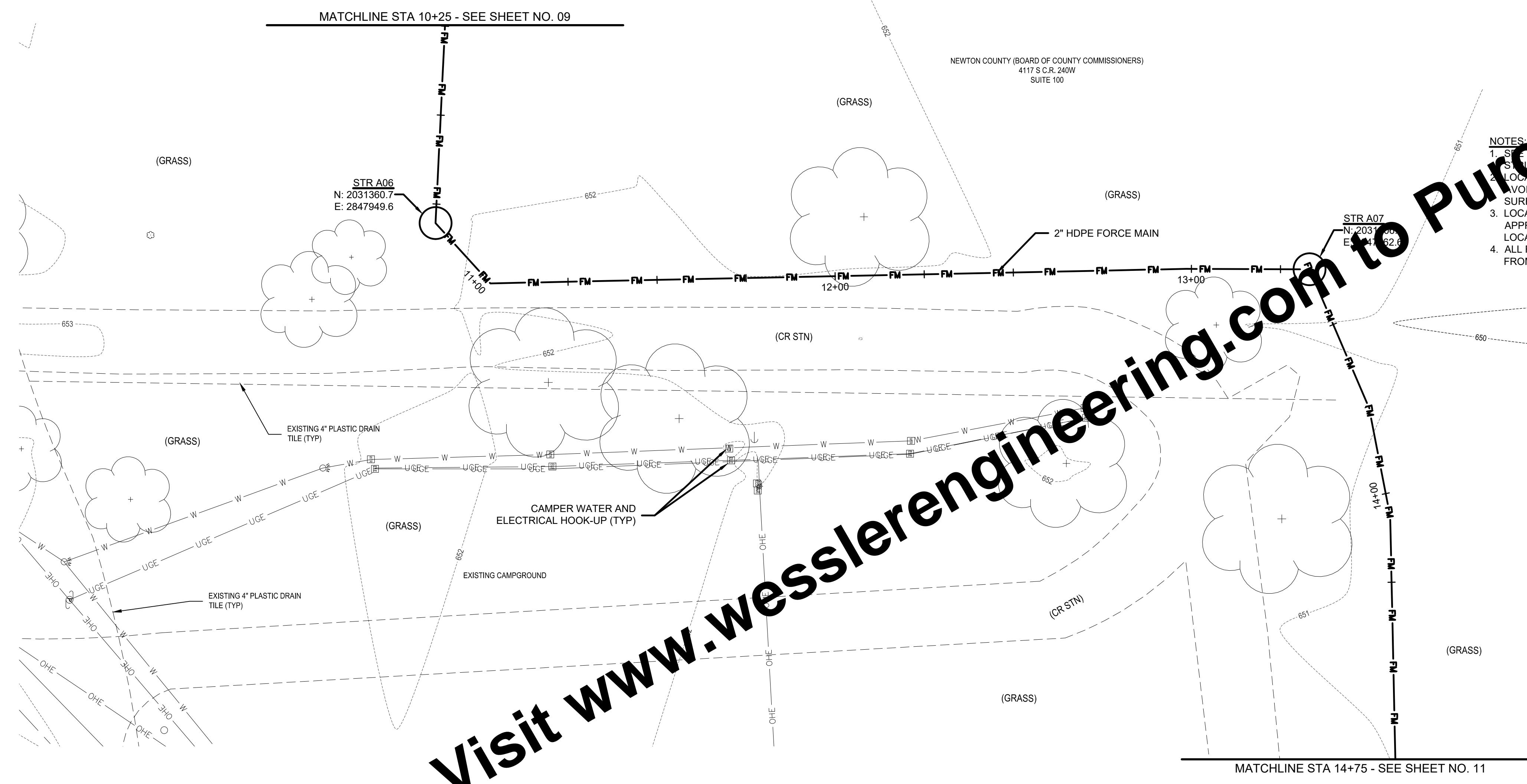
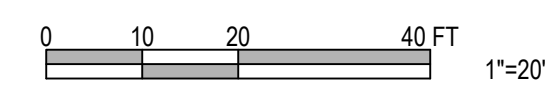
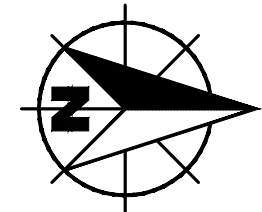


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

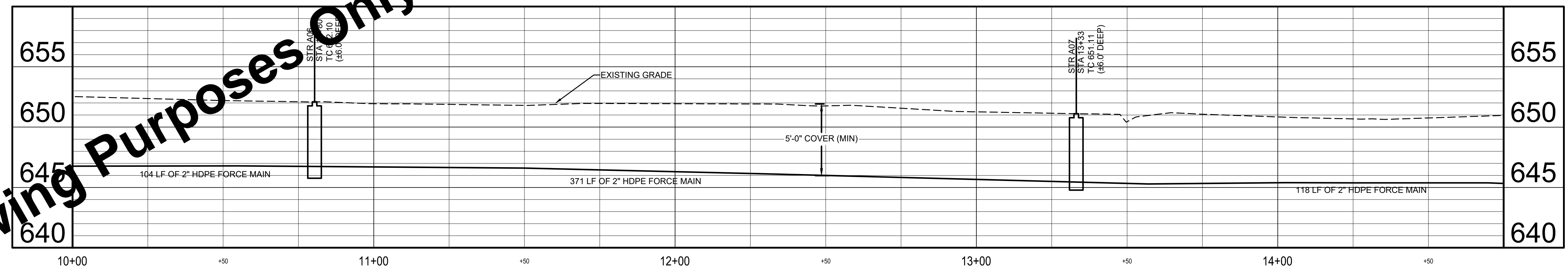
PLAN AND PROFILE - LINE A

SHEET NO.	09
TOTAL SHEETS	30



- NOTES:
1. SEE STRUCTURE DATA TABLE AND DETAIL SHEET FOR INFORMATION ON STRUCTURES.
 2. LOCATION OF FORCE MAIN IS APPROXIMATE. CARE SHOULD BE TAKEN TO AVOID UNNECESSARY DAMAGE TO PAVEMENT, TREES AND OTHER SURFACE FEATURES.
 3. LOCATION OF WATER AND ELECTRICAL SERVING CAMPSITES IS APPROXIMATE. NO INFORMATION WAS AVAILABLE INDICATING THEIR LOCATIONS OTHER THAN SURFACE FEATURES.
 4. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.

PLAN - LINE A
SCALE: 1" = 20'

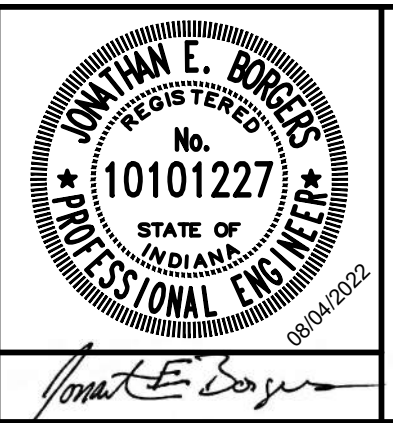


PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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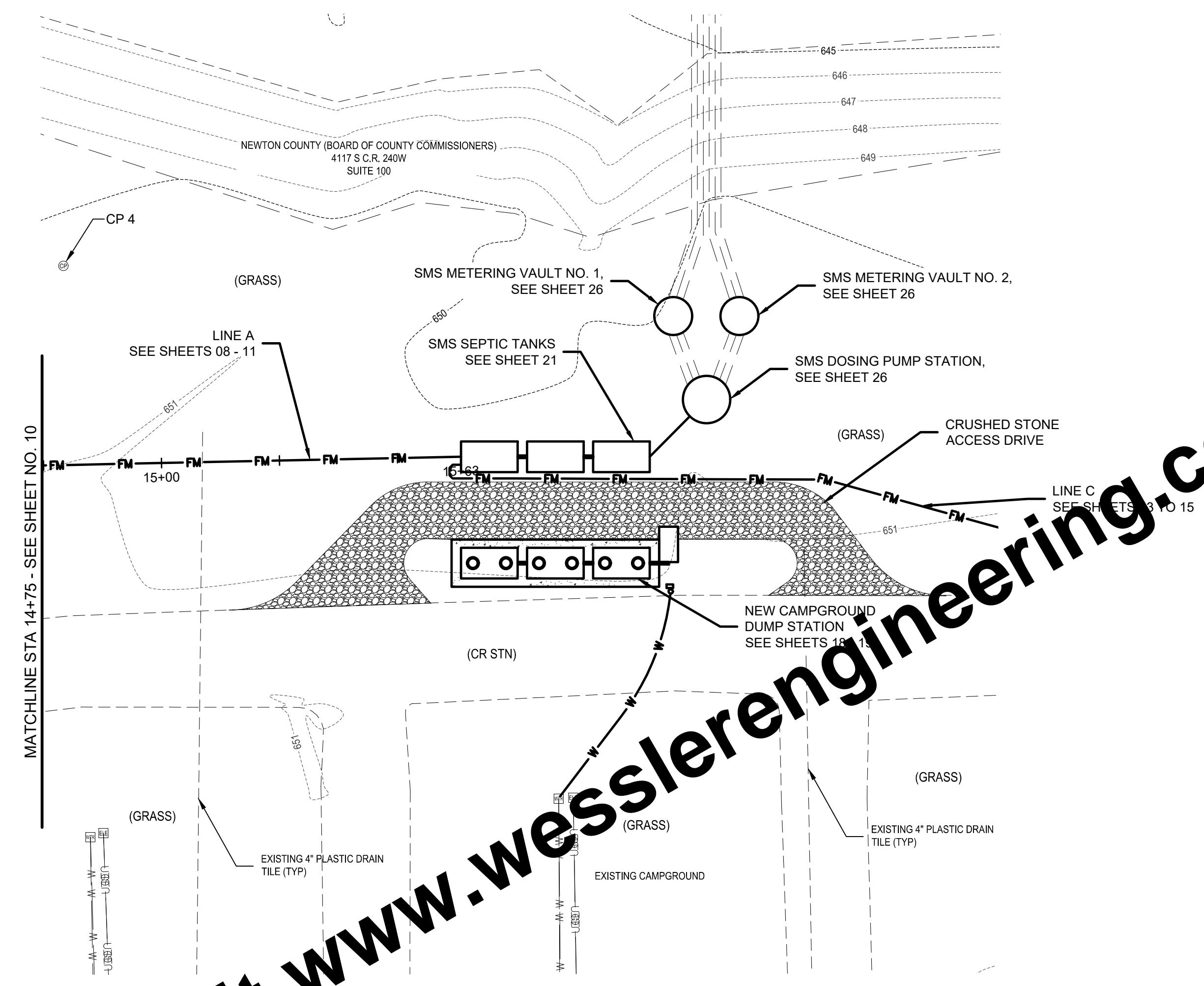
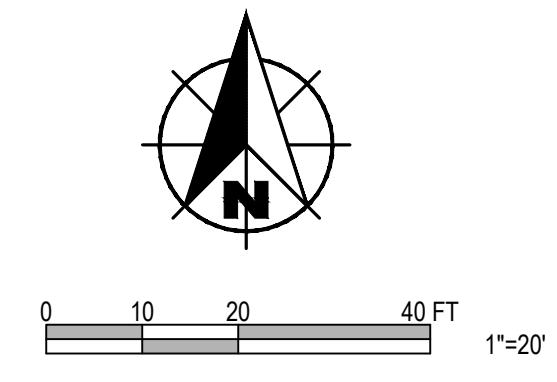


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

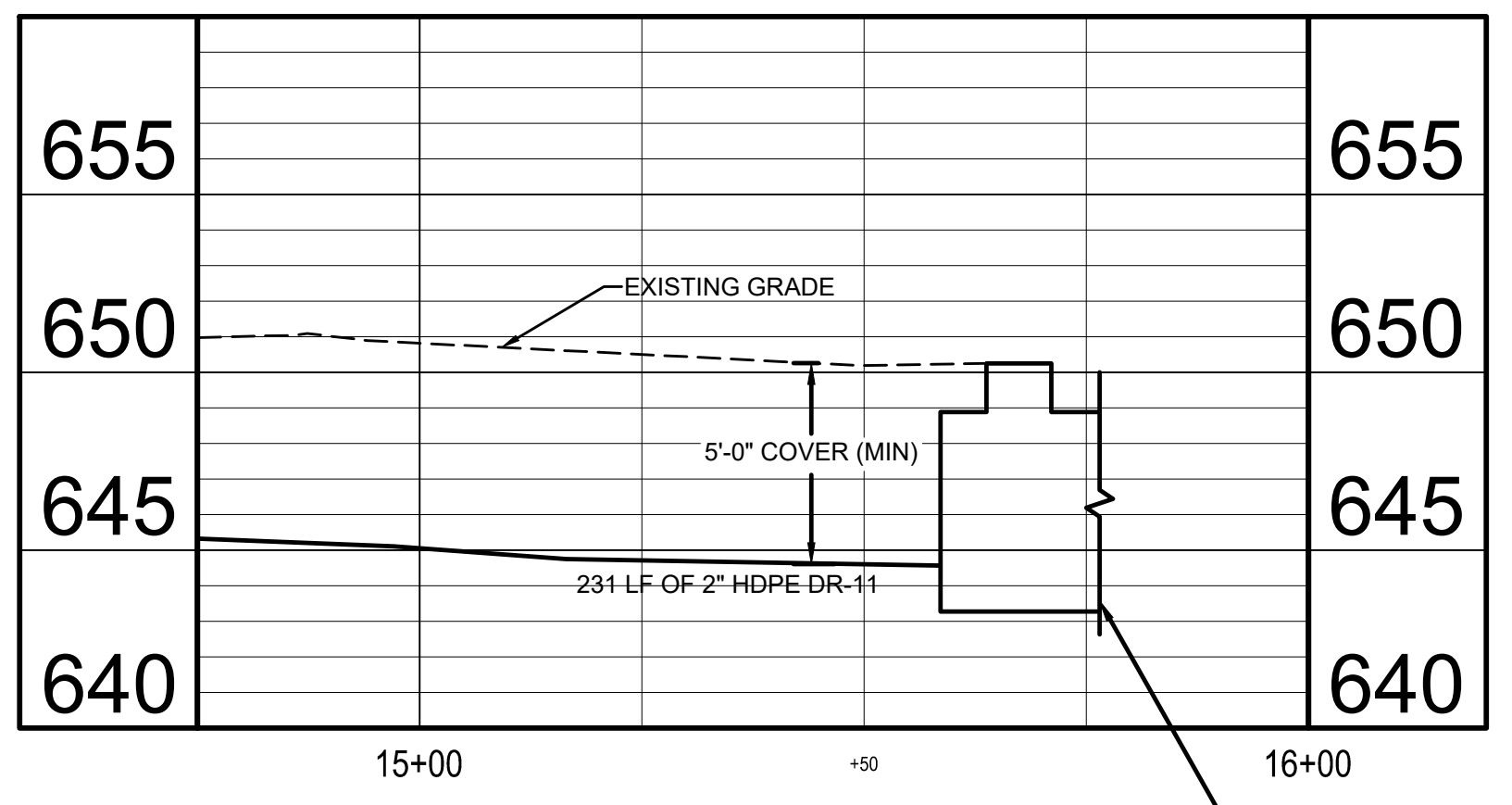
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE A

SHEET NO.	10
TOTAL SHEETS	30



PLAN - LINE A
SCALE: 1" = 20'

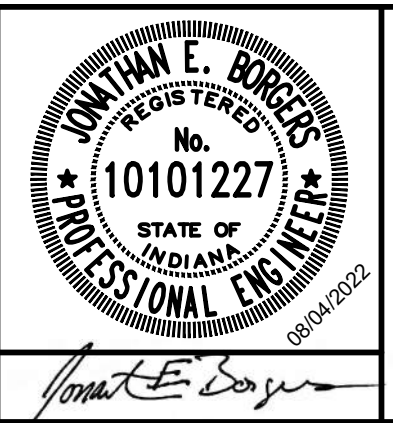


PROFILE - LINE A
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-PP-A.dwg | Layout: 11 | Plotter: 08/04/22 @ 06:52:11 | LastSavedBy: CurtisG

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	ISSUE DATE	AUGUST 2022				
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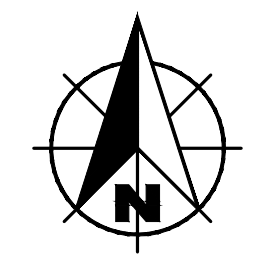


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

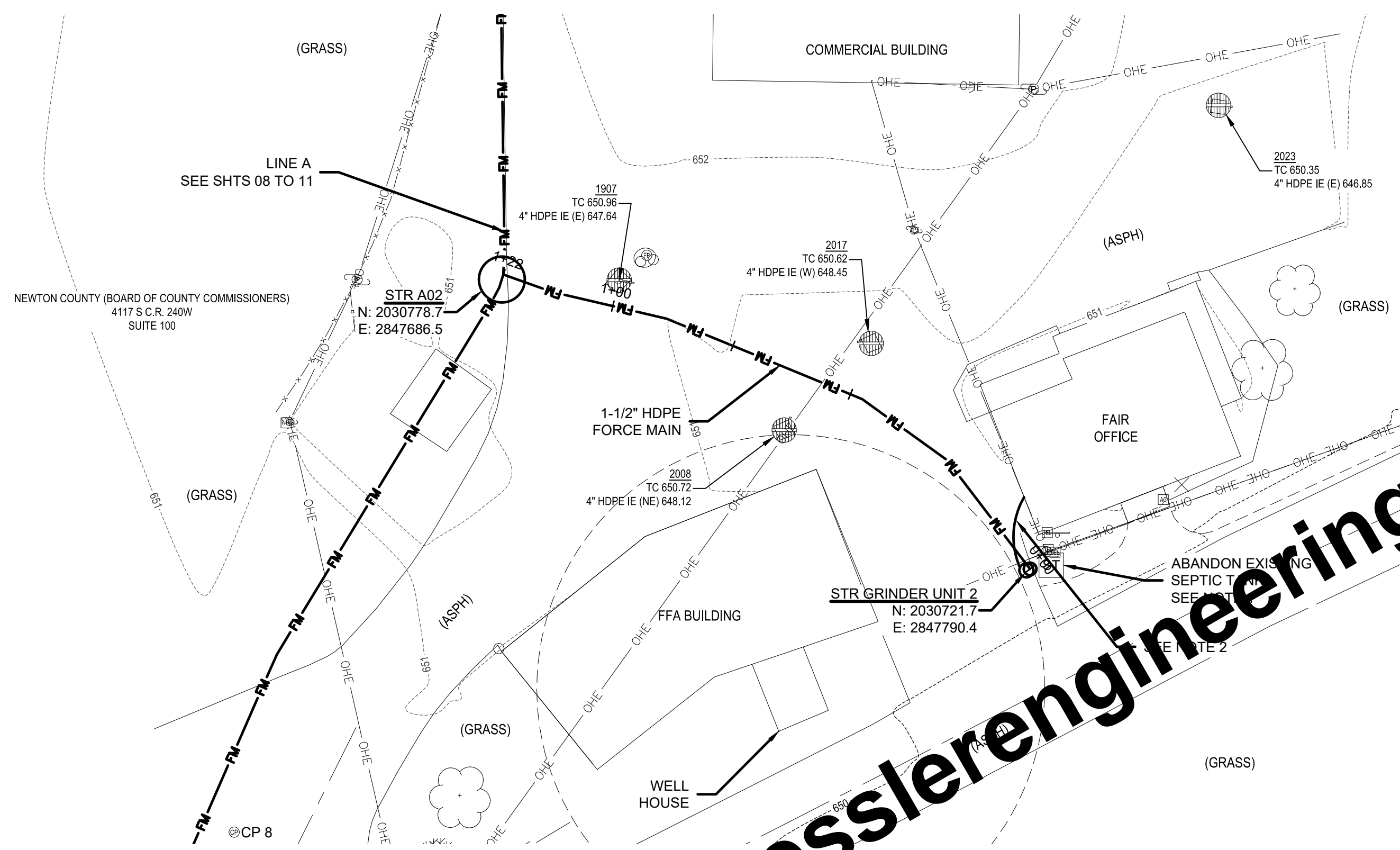
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE A

SHEET NO.	11
TOTAL SHEETS	30

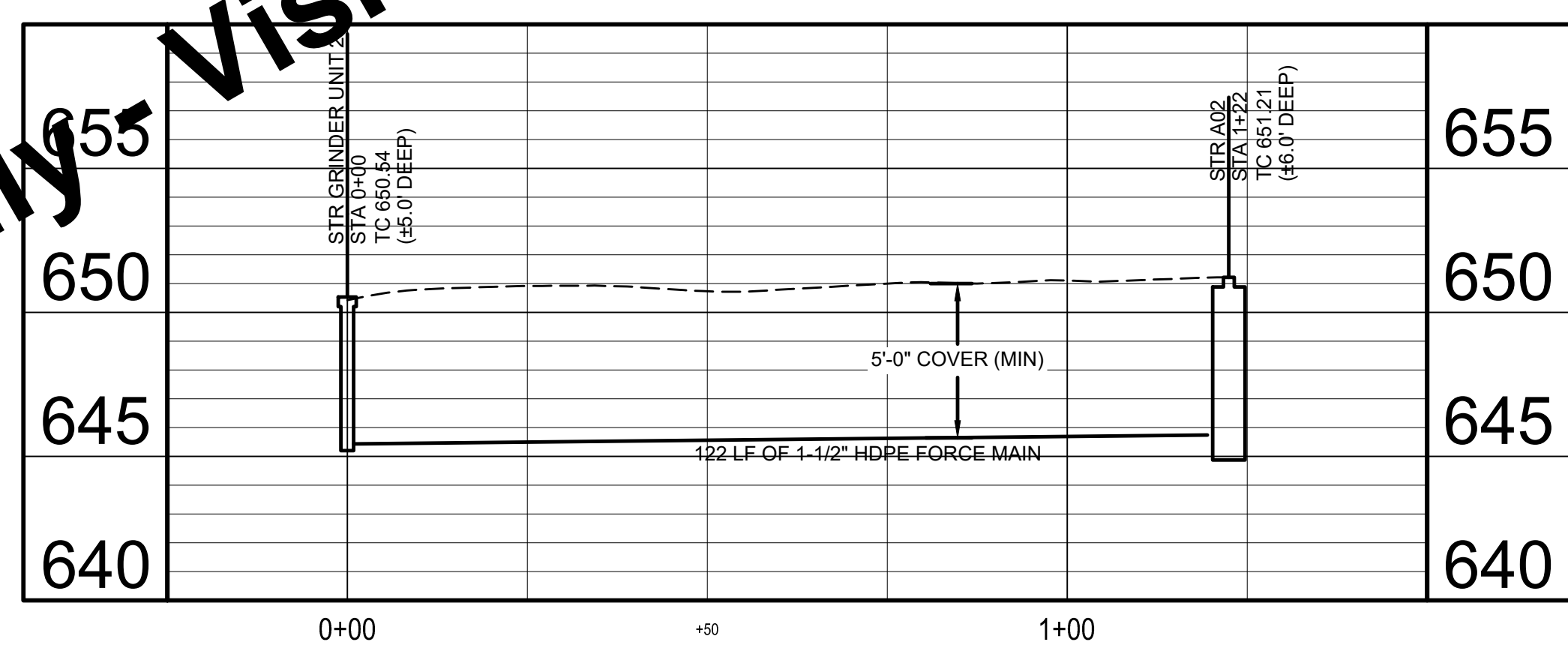


0 10 20 40 FT
1"=20'



- NOTES:**
1. ABANDON EX. SEPTIC TANK BY GRINDING AND DISPOSING OF ALL CONTENTS, CRUSHING IN TOP, AND FINISH WITH COMPACTED SAND. CONNECT EX. BUILDING SEWER TO NEW GRINDER UNIT AND RUNNING NEW 6" LATERAL THROUGH OR ABANDON EX. SEPTIC TANK AT MINIMUM SLOPE OF 1/4" PER FOOT.
 2. PROVIDE 120V SINGLE PHASE CABLE AND CONDUIT SIZED TO RUN POWER FROM EX. FAIR OFFICE TO GRINDER UNIT 2.
 3. LOCATION OF FORCE MAIN IS APPROXIMATE. CARE SHOULD BE TAKEN TO AVOID UNNECESSARY DAMAGE TO PAVEMENT, TREES AND OTHER SURFACE FEATURES.
 4. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.

PLAN - LINE B
SCALE: 1" = 20'

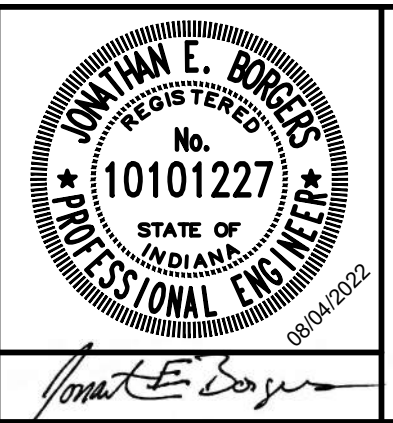


PROFILE - LINE B
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-PP-B.dwg | Layout: 12 | Plotter: 08/04/22 @ 06:50:47 | LastSavedBy: CurtisG

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				

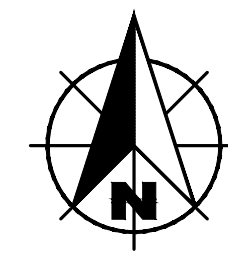


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

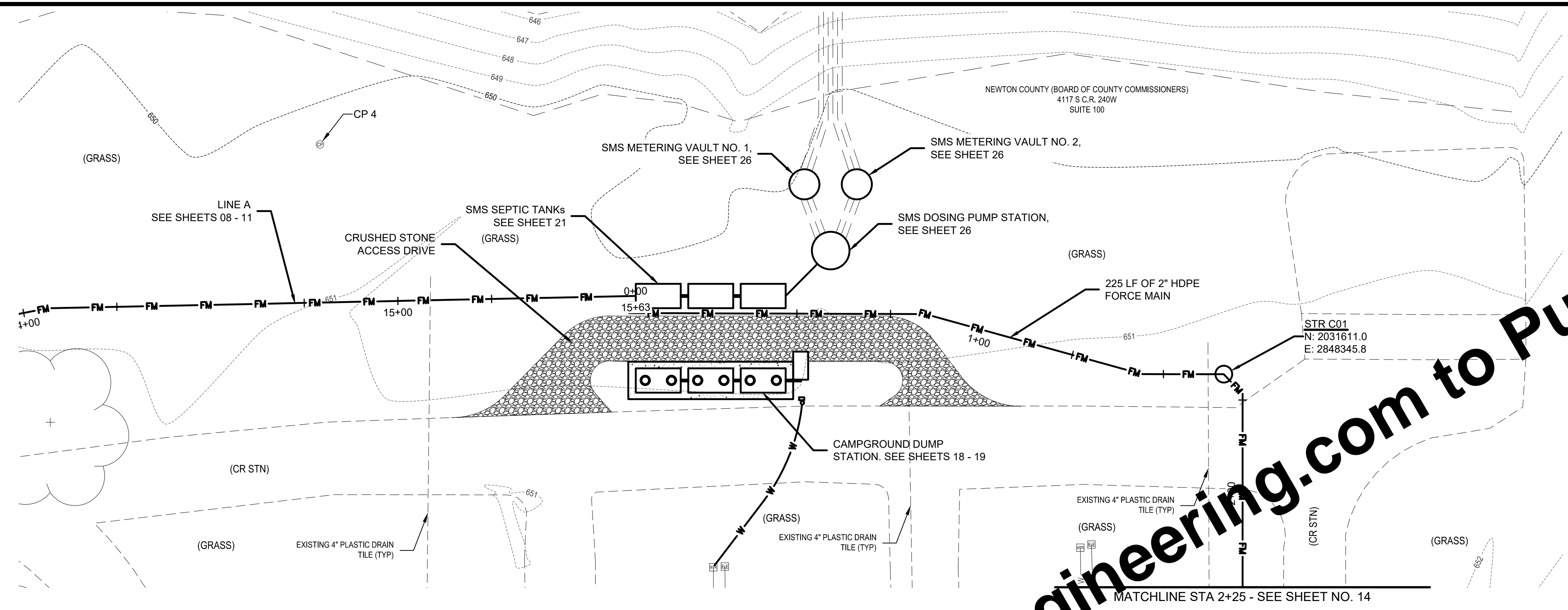
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE B

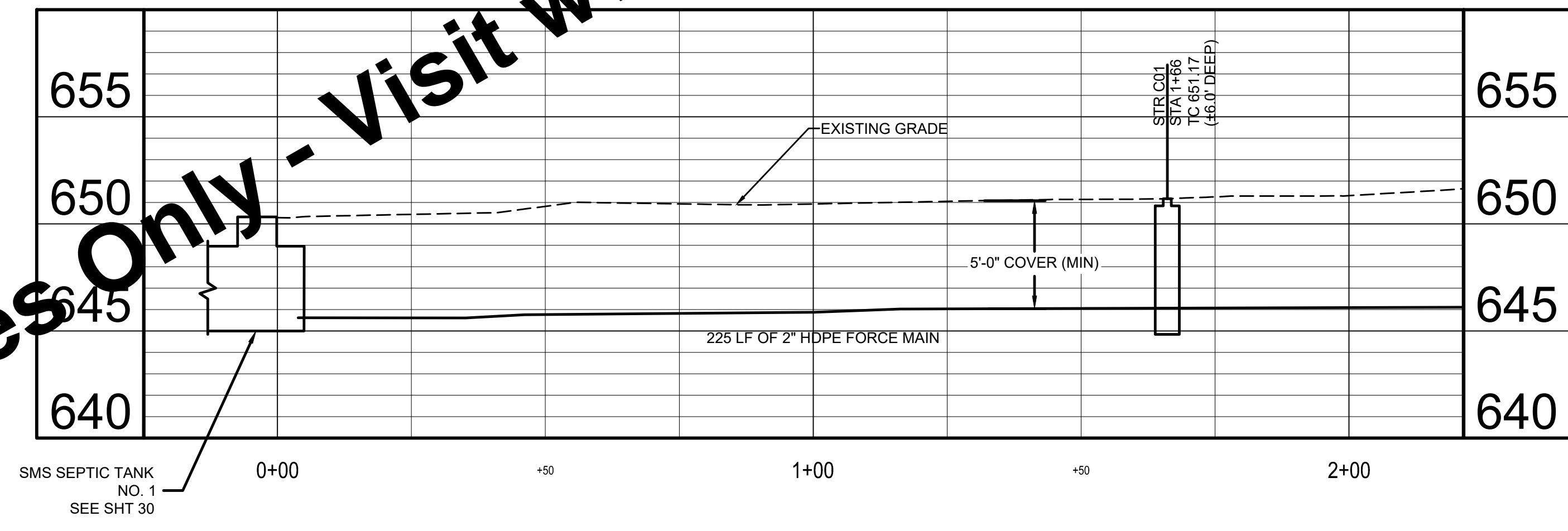
SHEET NO.	12
TOTAL SHEETS	30



- NOTES:
1. MAINTAIN FOR EXISTING LEVEL ELEVATION OR SLOPED DOWN FROM STR. C02 TO PREVENT SEPTIC TANK DISCHARGE TO ELIMINATE NEED FOR AIR RELEASE FOR STR. C02.
 2. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 10' FROM ANY WELL.



PLAN - LINE C
SCALE: 1" = 20'

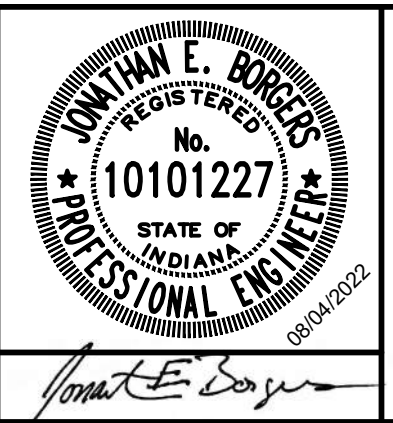


PROFILE - LINE C
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

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SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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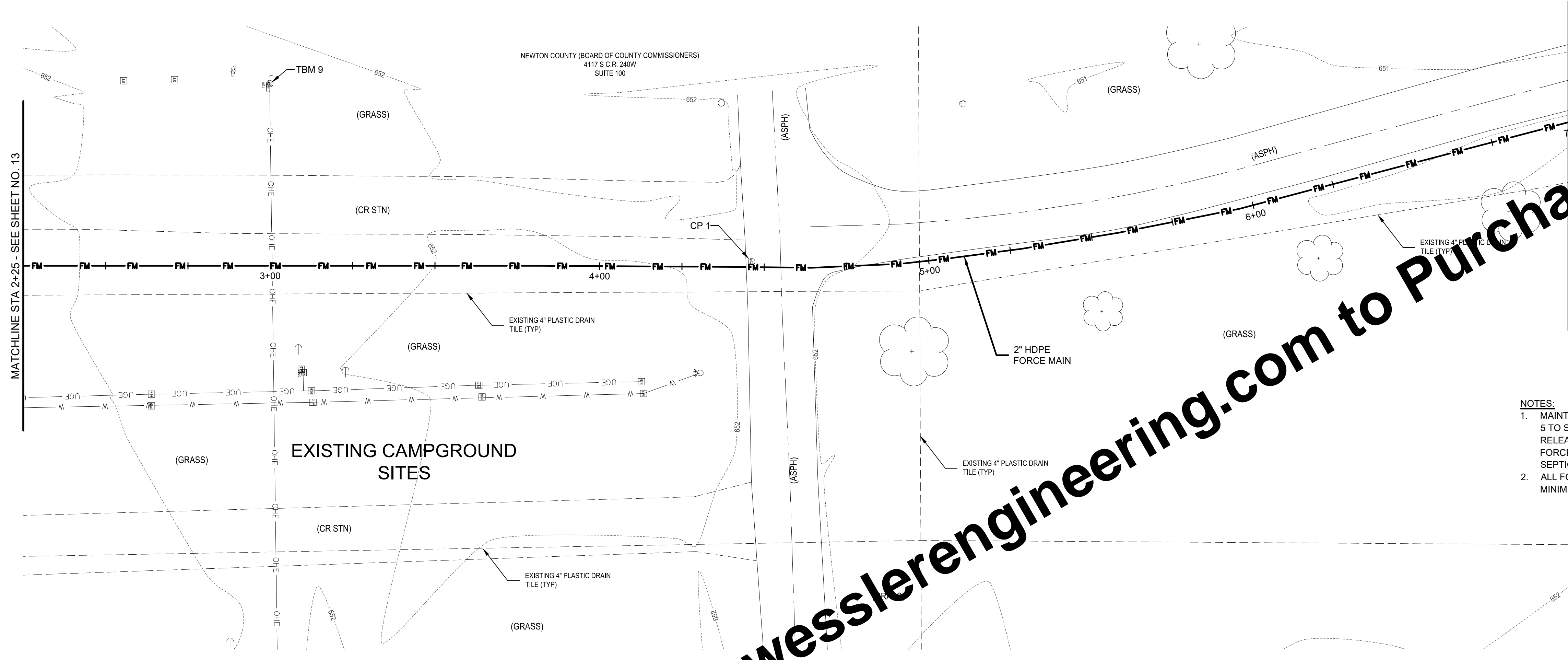
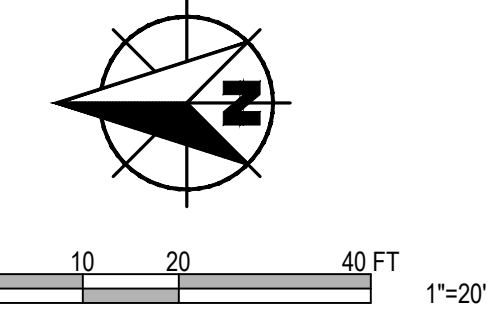


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

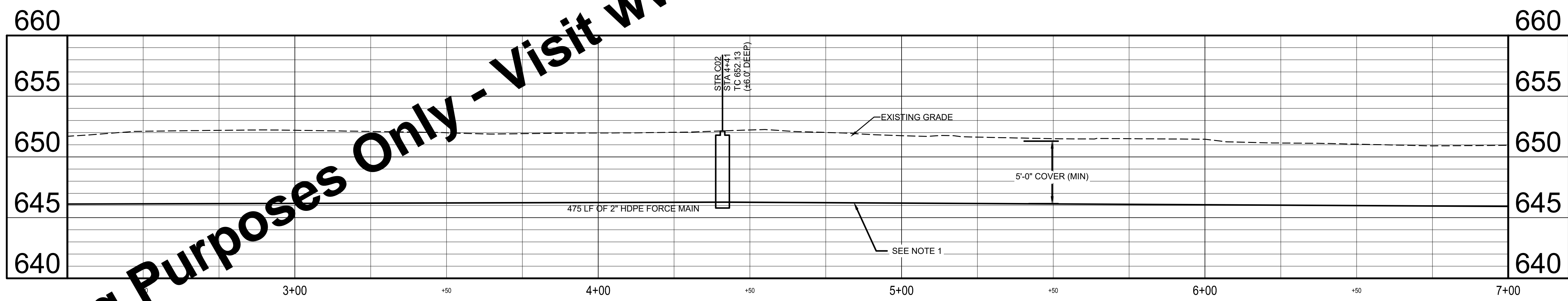
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE C

SHEET NO.	13
TOTAL SHEETS	30



- NOTES:**
1. MAINTAIN LEVEL FORCE MAIN ELEVATION FROM GRINDER UNIT 5 TO STA 6+25 TO ELIMINATE HIGH POINT AND NEED FOR AIR RELEASE BETWEEN STR. C02 AND GRINDER UNIT 5. MAINTAIN FORCE MAIN LEVEL OR SLOPING DOWN FROM STR. C02 TO SMS SEPTIC TANK DISCHARGE.
 2. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.

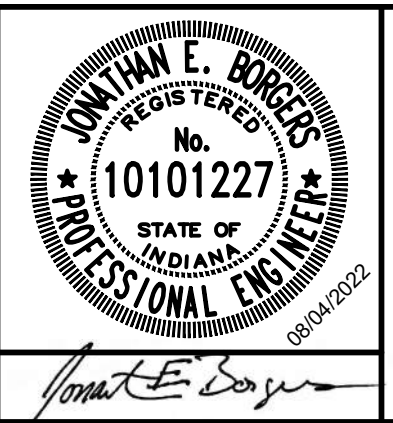


PROFILE - LINE C
 HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 5'

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BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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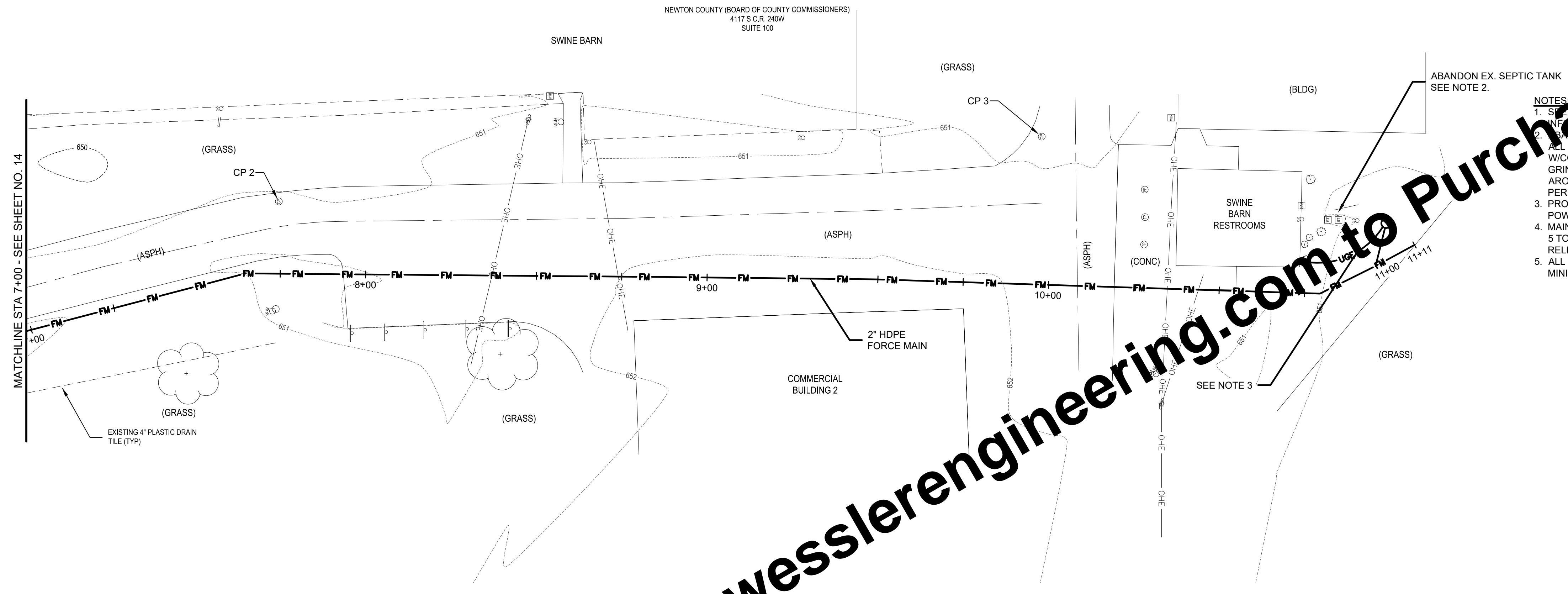
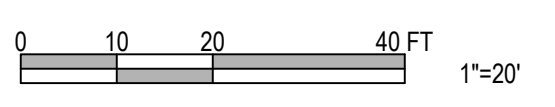
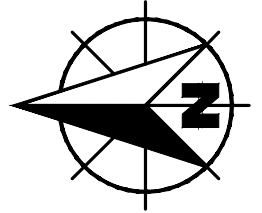


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

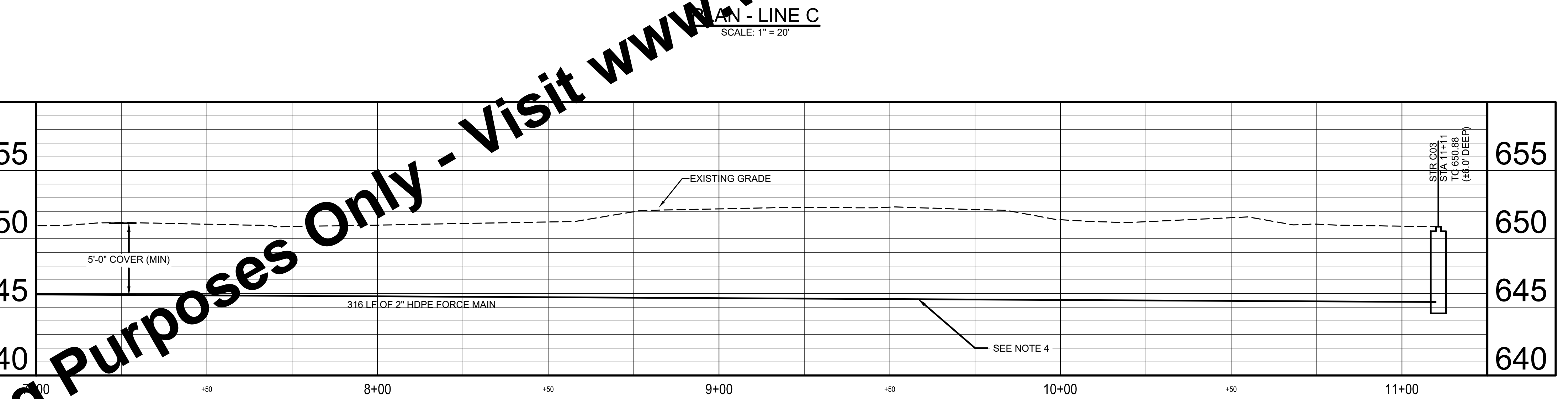
NEWTON COUNTY COMMISSIONERS
 NEWTON COUNTY, INDIANA

PLAN AND PROFILE - LINE C

SHEET NO.	14
TOTAL SHEETS	30



- NOTES:**
1. SEE STRUCTURE DATA TABLE AND DETAILS ON SHT. XX FOR INFORMATION ON STRUCTURES.
 2. ABANDON EX. SEPTIC TANK BY PUMPING AND DISPOSING OF ALL CONTENTS, CRUSHING IN TOP, AND FILLING W/COMPACTED SAND. CONNECT EX. BUILDING SEWER TO NEW GRINDER UNIT AND RUNNING NEW 6" LATERAL THROUGH OR AROUND ABANDONED SEPTIC TANK AT MINIMUM SLOPE OF 1/4" PER FOOT.
 3. PROVIDE AND INSTALL CABLE AND CONDUIT SIZED TO RUN POWER FROM EX. SWINE BARN TO GRINDER UNIT 5.
 4. MAINTAIN LEVEL FORCE MAIN ELEVATION FROM GRINDER UNIT 5 TO STA 6+25 TO ELIMINATE HIGH POINT AND NEED FOR AIR RELEASE THROUGH PAVED AREA.
 5. ALL FORCE MAIN AND GRINDER UNITS SHALL BE LOCATED A MINIMUM OF 50' FROM ANY WELL.

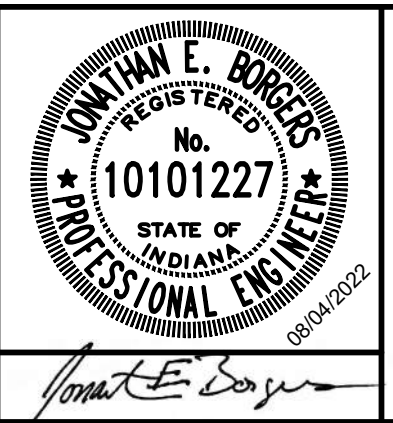


PROFILE - LINE C
 HORIZ SCALE: 1" = 20'
 VERT SCALE: 1" = 5'

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Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-PP-C.dwg | Layout: 15 | Plotter: 08/04/22 @ 06:49:20 | LastSavedBy: ChrisG

SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
 NEWTON COUNTY, INDIANA

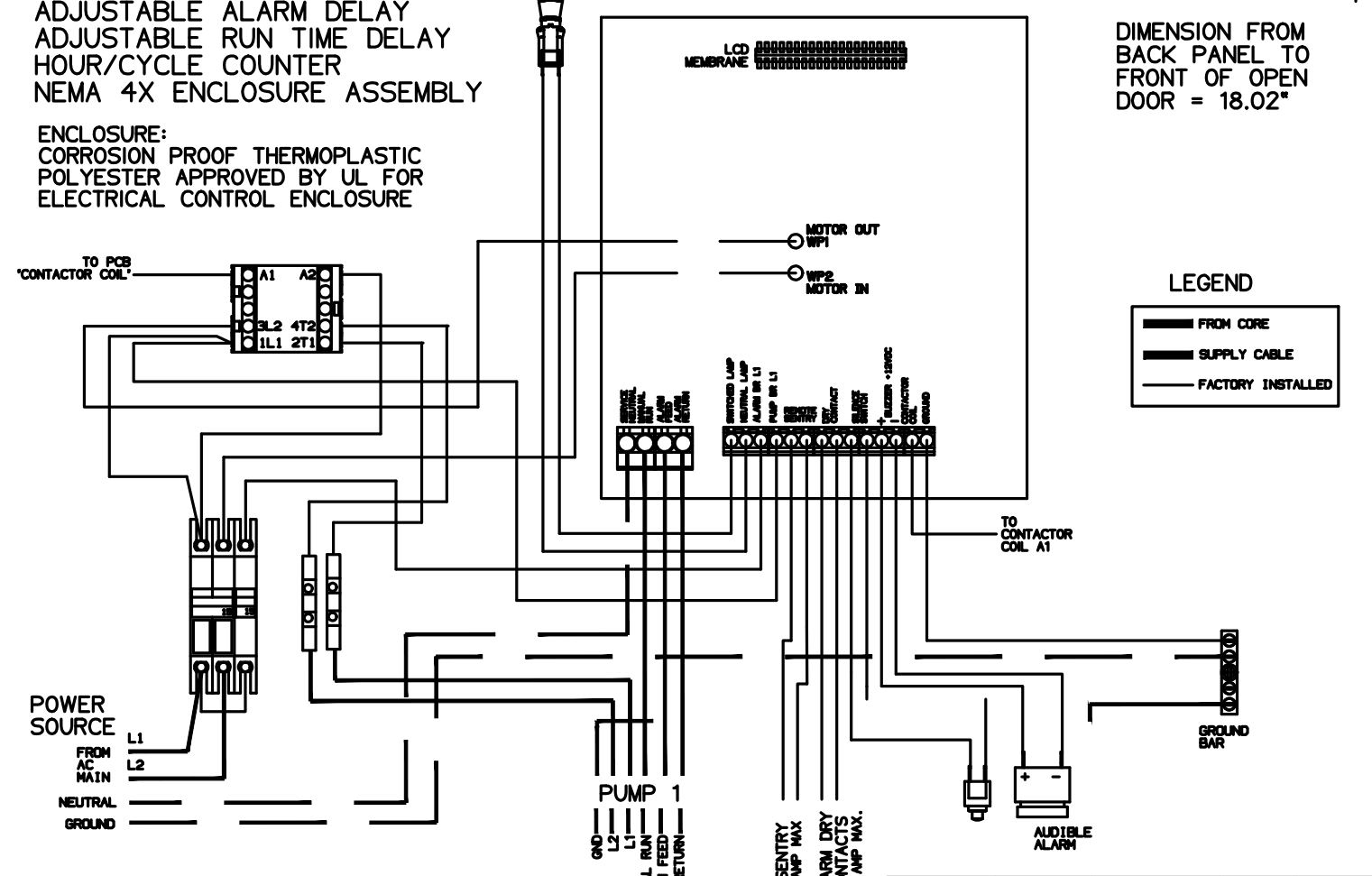
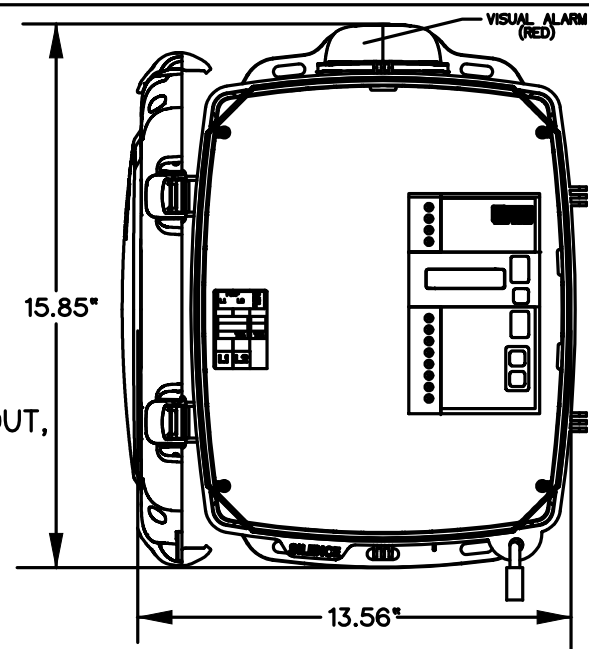
PLAN AND PROFILE - LINE C

SHEET NO.	15
TOTAL SHEETS	30

**SENTRY PROTECT PLUS
SIMPLEX**

- REDUNDANT RUN (HIGH LEVEL)
- EXTERNAL VISUAL & AUDIBLE ALARM
- REMOTE SENTRY DRY CONTACTS FOR OPTIONAL POWER LOSS HIGH LEVEL ALARM (POWER LOSS ALARM FOR WIRELESS)
- MANUAL ALARM SILENCE
- MANUAL RUN
- STATUS LED'S: NORMAL, PUMP RUNNING, HIGH LEVEL
- TROUBLE INDICATIONS: RUN DRY, OVERPRESSURE, BROWNOUT, VOLTAGE, EXTENDED RUN TIME
- DRY CONTACTS
- CONFORMAL COATED CIRCUIT BOARD (BOTH SIDES)
- PADLOCK
- DEAD FRONT
- PREDICTIVE ALARMS
- REAL TIME PUMP PERFORMANCE
- ADJUSTABLE ALARM DELAY
- ADJUSTABLE RUN TIME DELAY
- HOUR/CYCLE COUNTER
- NEMA 4X ENCLOSURE ASSEMBLY

ENCLOSURE:
CORROSION PROOF THERMOPLASTIC POLYESTER APPROVED BY UL FOR ELECTRICAL CONTROL ENCLOSURE



PIN	FUNCTION	2000S	EXTREME
1	MANUAL RUN	RED	BROWN
2	L1	BLACK	RED
3	L2	WHITE	BLACK
4	GND	GREEN	GRN/YEL
5	ALARM FEED	ORANGE	YELLOW
6	ALARM RETURN	BLUE	BLUE

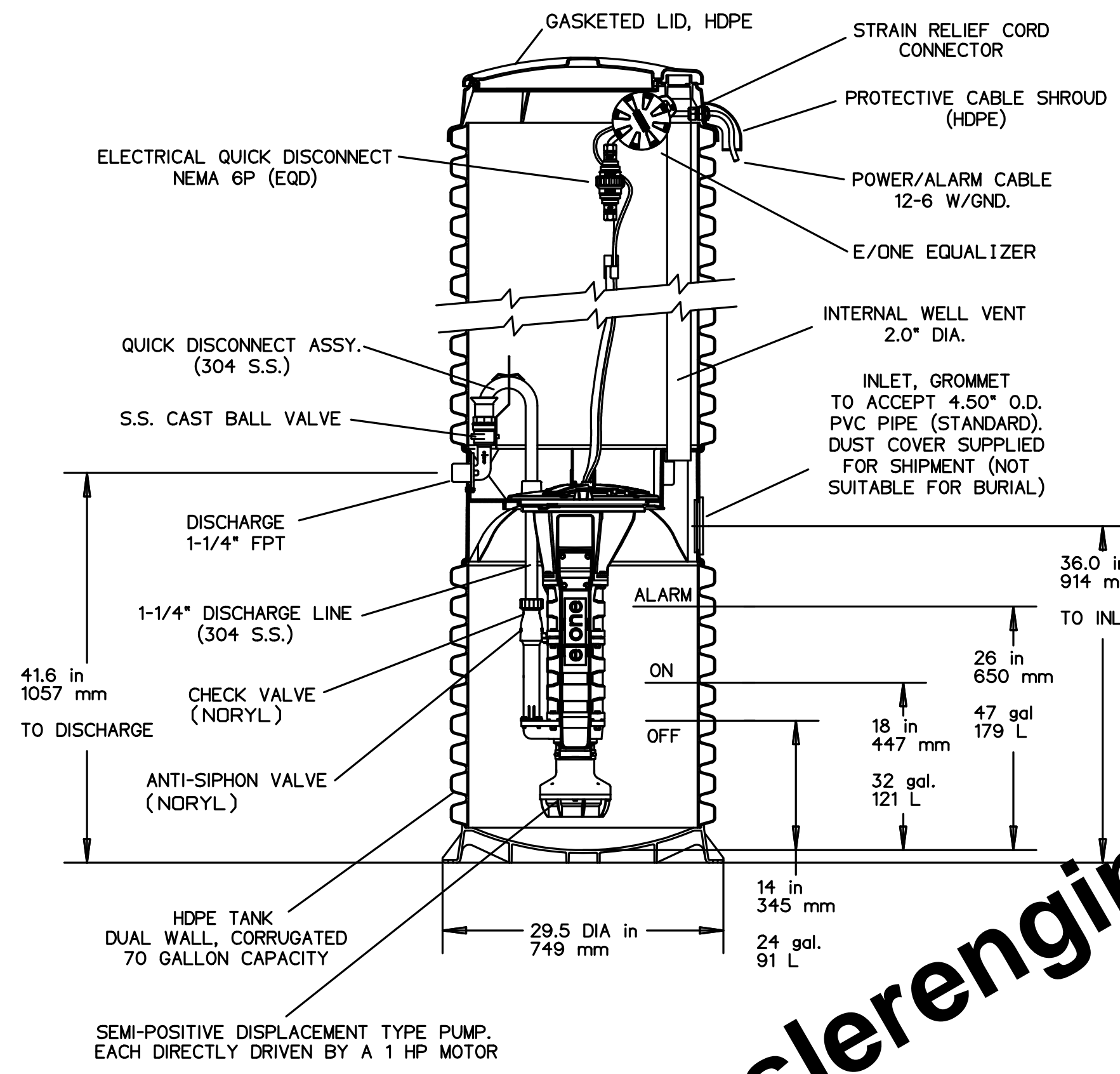
CONTROL CABLE:
TYPE TC; DIRECT BURIAL,
SIX CONDUCTOR

AD	12/14/07	DMS	C	06/23/11
DR BY	DATE	CHK'D	ISSUE	DATE

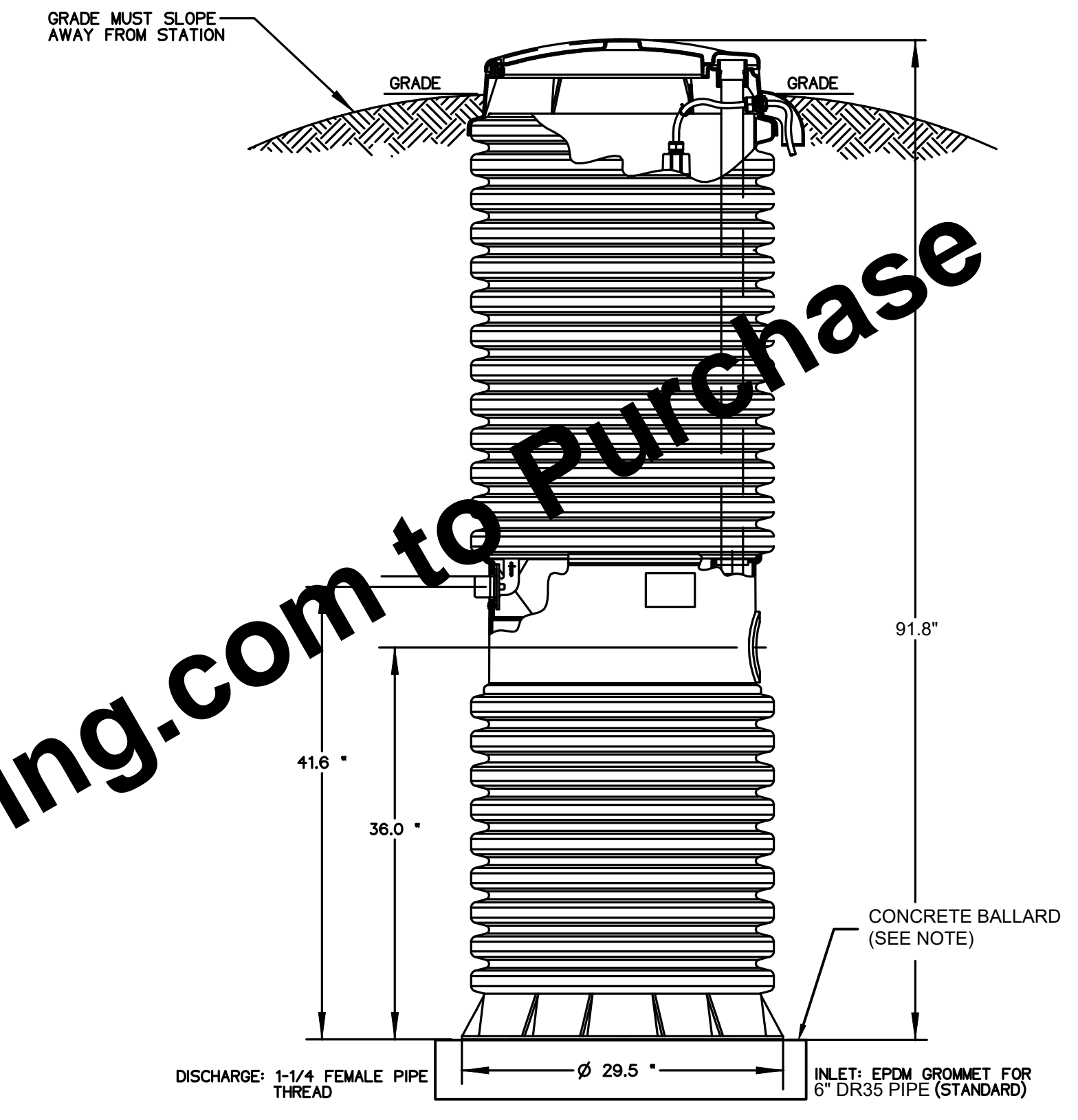
eone
SEWER SYSTEMS

SENTRY PROTECT PLUS PANEL, SIMPLEX
240V 60Hz DOUBLE POLE POWER

NA0079P03



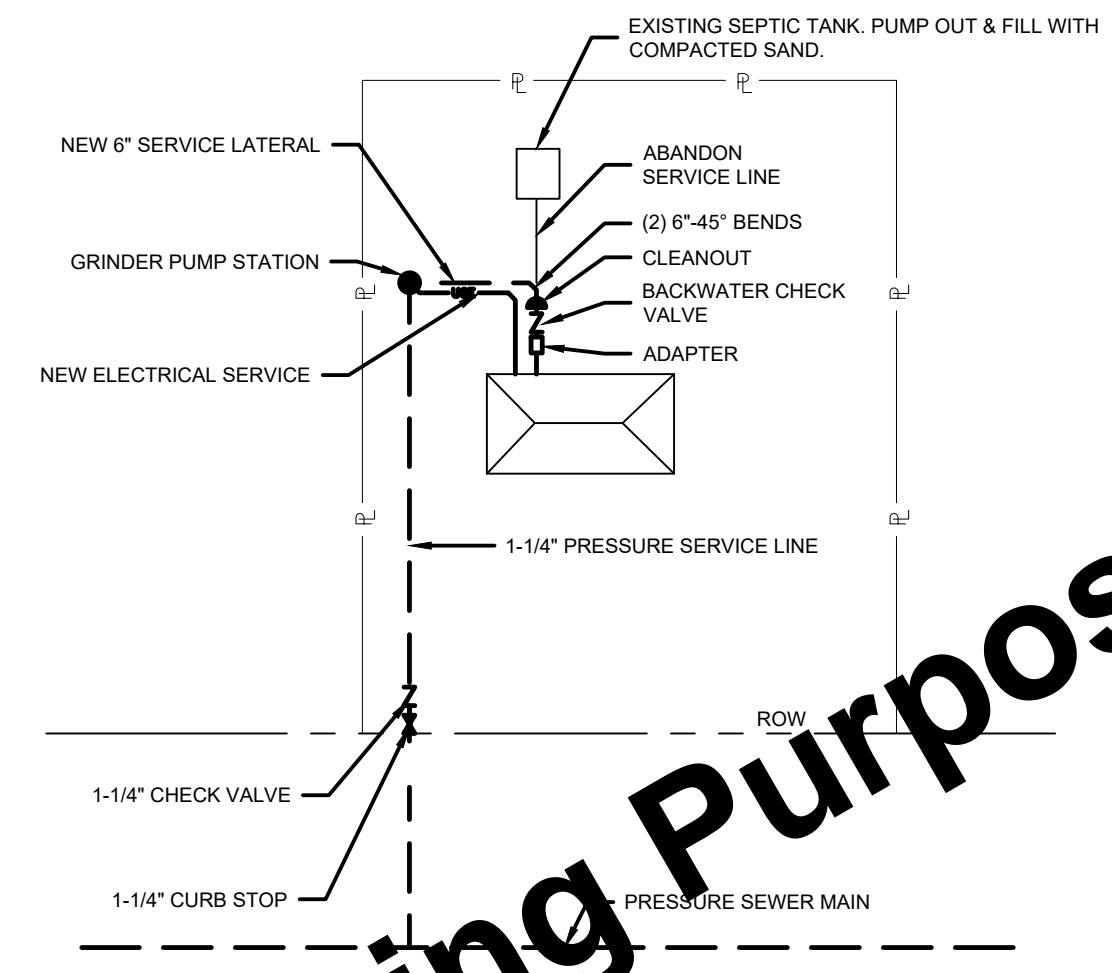
SECTION THRU GRINDER PUMP STATION
SCALE: NONE



GRINDER PUMP COVER
SCALE: NONE

NOTE

- INVERT OF EXISTING SEWER LINES THAT WILL CONNECT TO GRINDER PUMPS VARY. FIELD VERIFY INVERT LOCATIONS, AND PROVIDE CONCRETE BALLAST AS NEEDED AT PUMP BASE TO FACILITATE CONNECTION TO INFLUENT AND DISCHARGE PIPES.



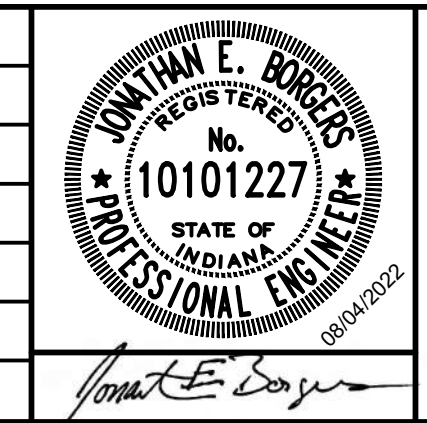
NOTES:

- BACKWATER CHECK VALVE TO BE INSTALLED ON ALL SERVICE LATERALS.
- DRY RUN SERVICE LATERAL SHALL BE 2% (1/4\"/>

TYPICAL GRINDER PUMP STATION LAYOUT & TAP PLAN
SCALE: NONE

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	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

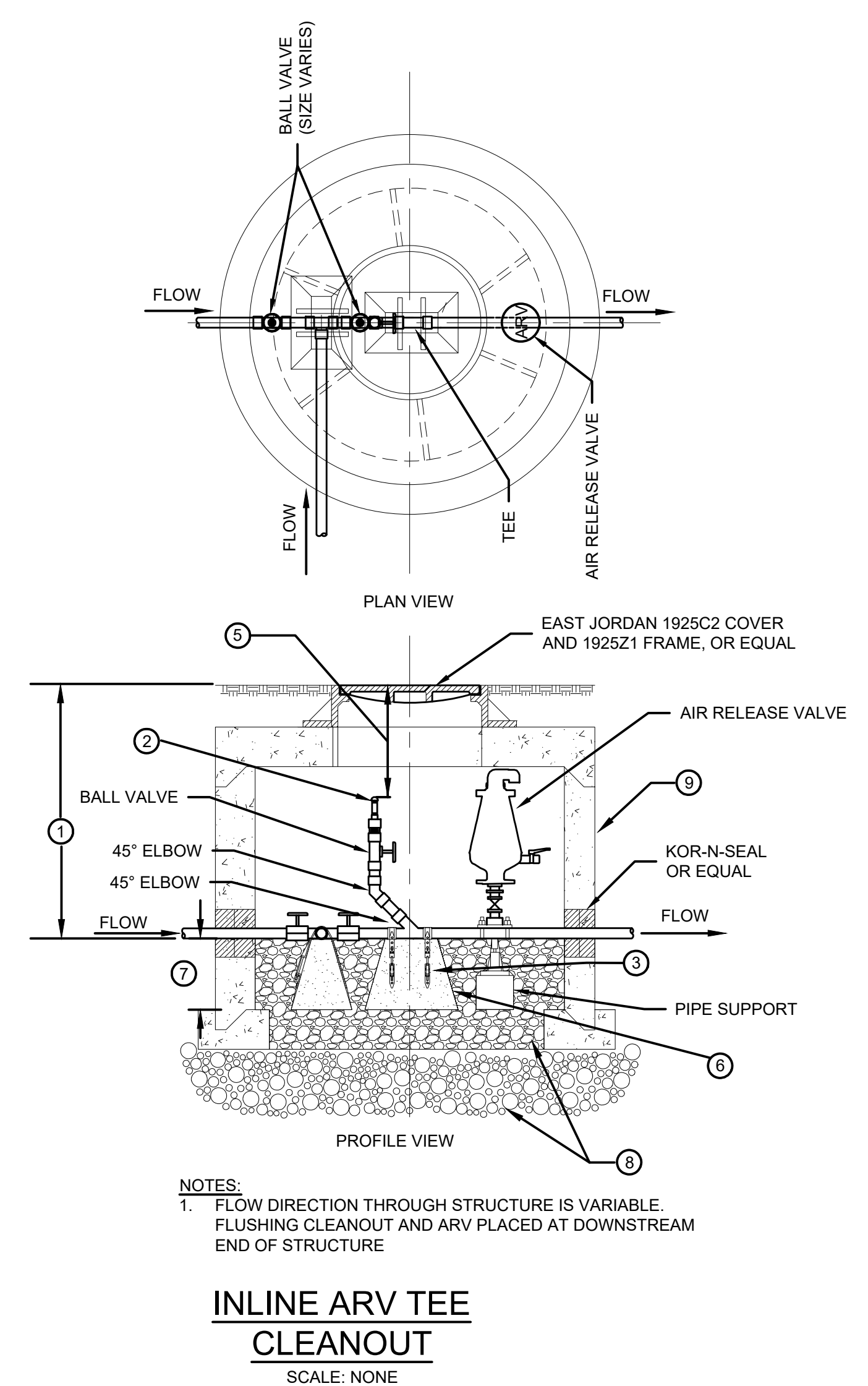
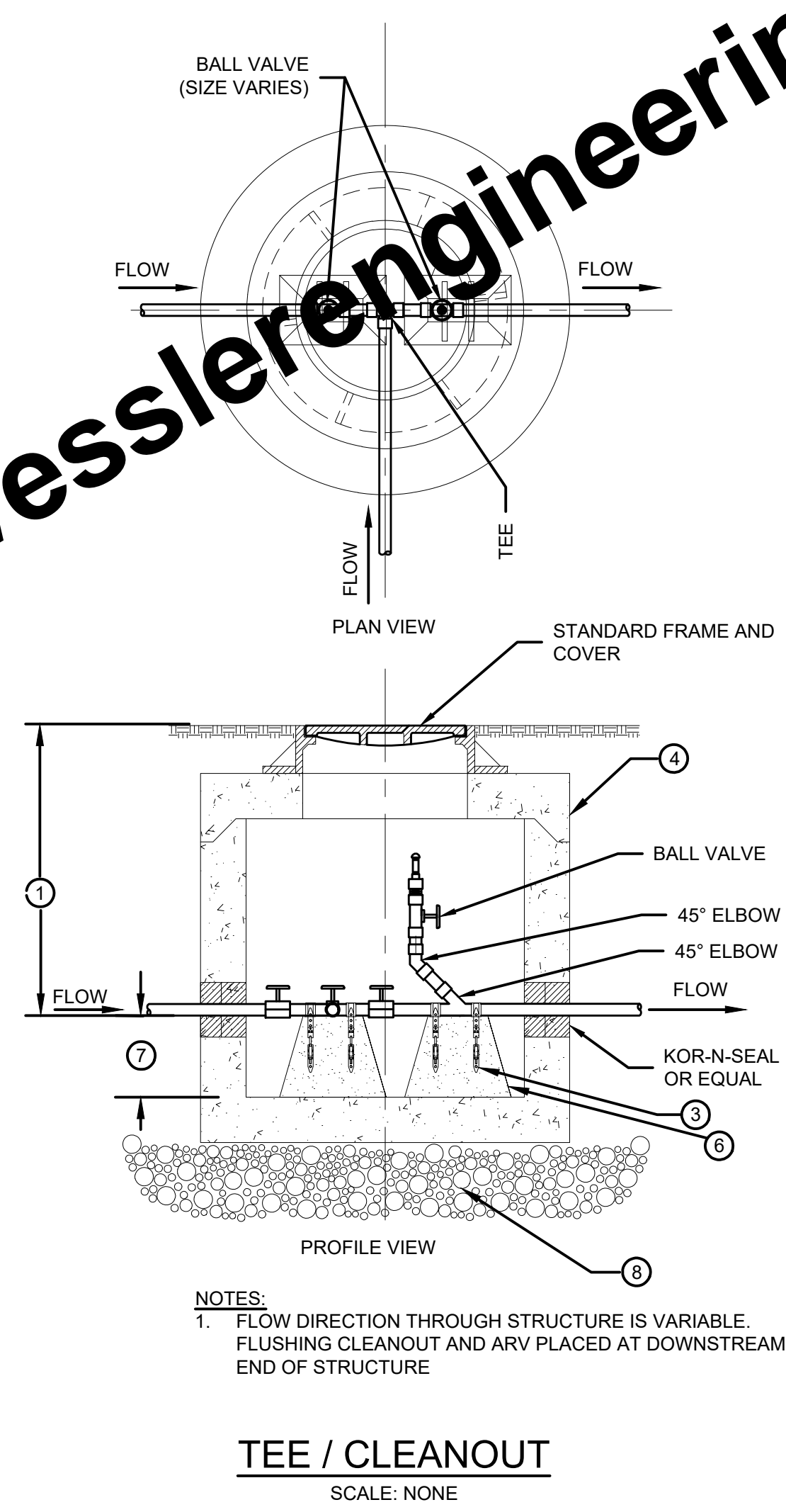
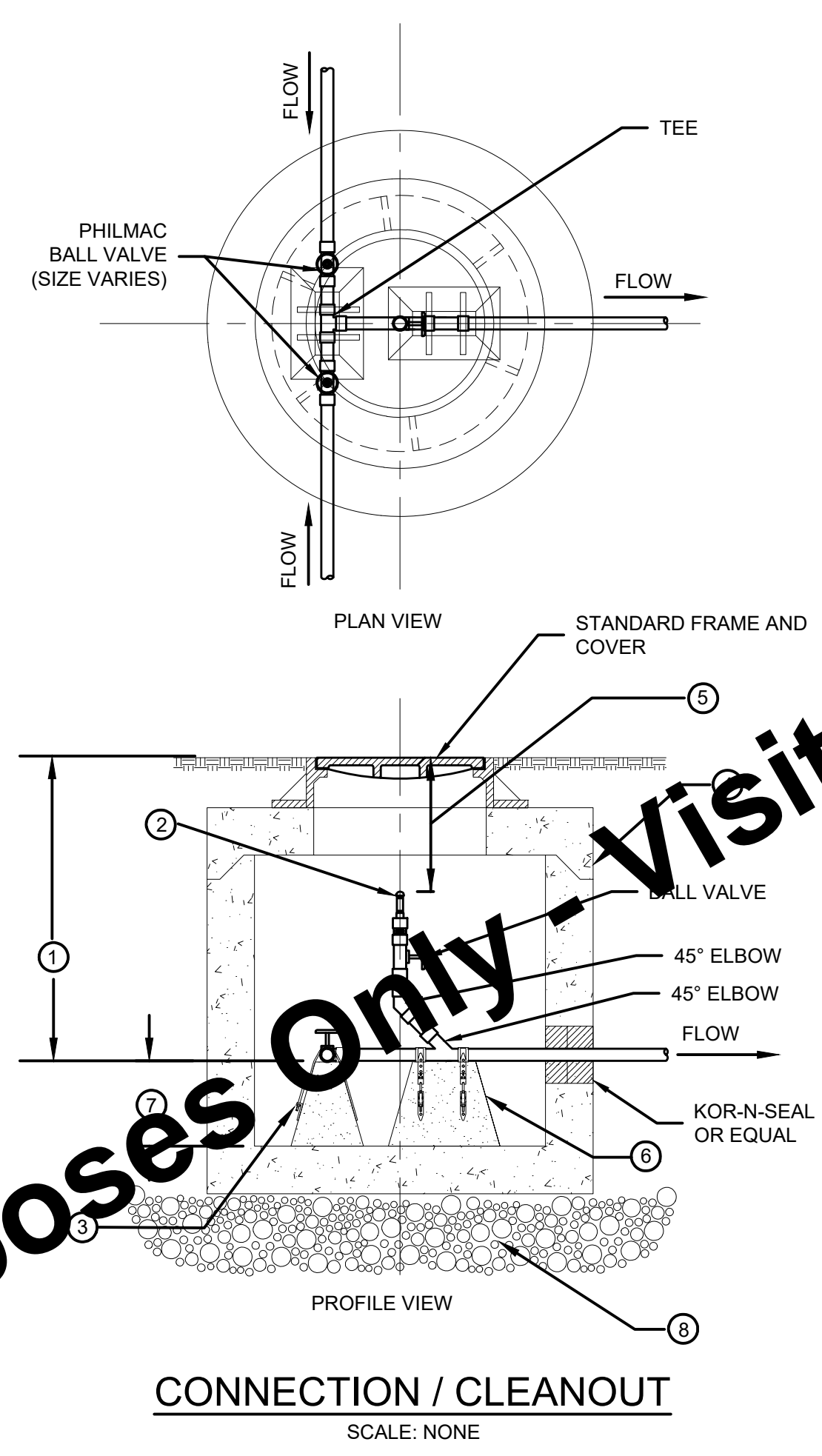
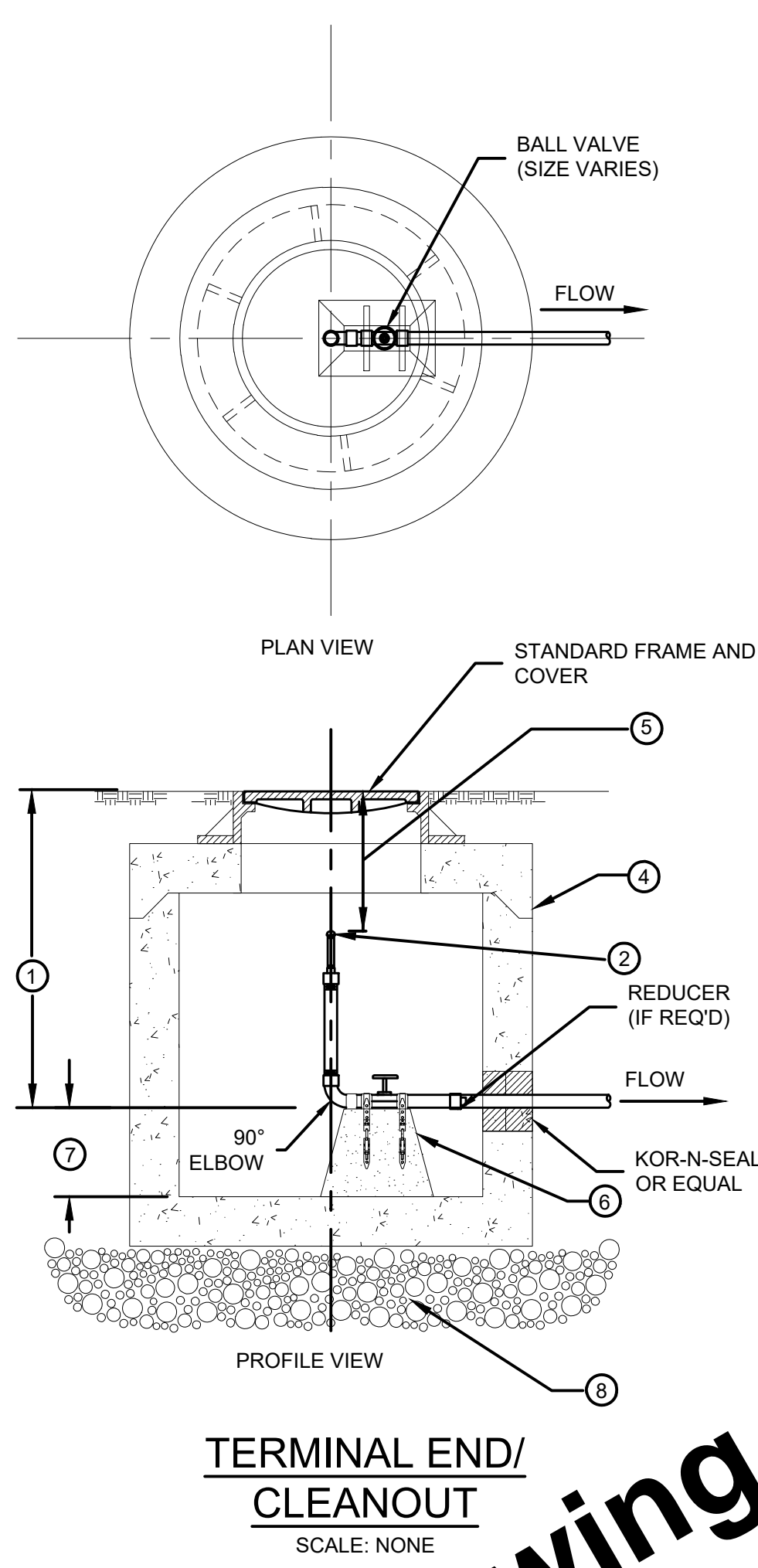
GRINDER PUMP DETAILS

SHEET NO.	16
TOTAL SHEETS	30

Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-MS.dwg | Layout: 16 | Plotfile: 08/04/22 @ 08:38:48 | LastSavedBy: CurisG

STRUCTURE DATA TABLE				
STR ID	TYPE	SHEET NO	STATION	APPROXIMATE DEPTH (FT)
A01	TERMINAL END / CLEANOUT	8	0+00	5.0
A02	CONNECTION / CLEANOUT	8	2+80	6.0
A03	CONNECTION / CLEANOUT	9	5+99	6.0
A04	INLINE CLEANOUT	9	8+57	6.0
A05	CONNECTION / CLEANOUT	9	8+94	6.0
A06	INLINE CLEANOUT	10	10+80	6.0
A07	INLINE CLEANOUT	10	13+33	6.0
C01	INLINE CLEANOUT	13	1+66	6.0
C02	INLINE ARV / CLEANOUT	14	4+41	6.0
C03	TERMINAL END / CLEANOUT	15	11+12	6.0

- NOTES**
- MIN 60" COVER
 - CAMLOCK CONNECTION
 - 304 S.S. STRAP W/ NEOPRENE SLEEVE
 - 4' MIN DIA PRECAST CONCRETE MANHOLE
 - MAX 24"
 - CONCRETE THRUST BLOCK
 - MIN 1'
 - 6"- NO.8 CRUSHED STONE OR FRACTURED FACE AGGREGATE
 - 5' MIN DIA PRECAST CONCRETE MANHOLE



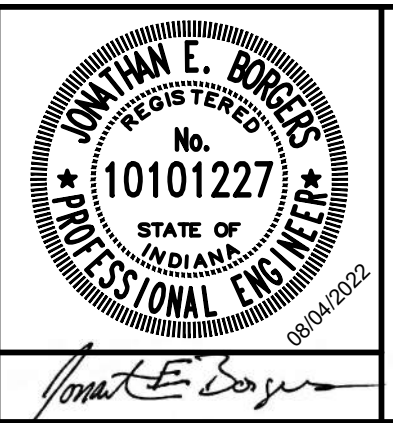
NOTES:
1. FLOW DIRECTION THROUGH STRUCTURE IS VARIABLE. FLUSHING CLEANOUT AND ARV PLACED AT DOWNSTREAM END OF STRUCTURE

NOTES:
1. FLOW DIRECTION THROUGH STRUCTURE IS VARIABLE. FLUSHING CLEANOUT AND ARV PLACED AT DOWNSTREAM END OF STRUCTURE

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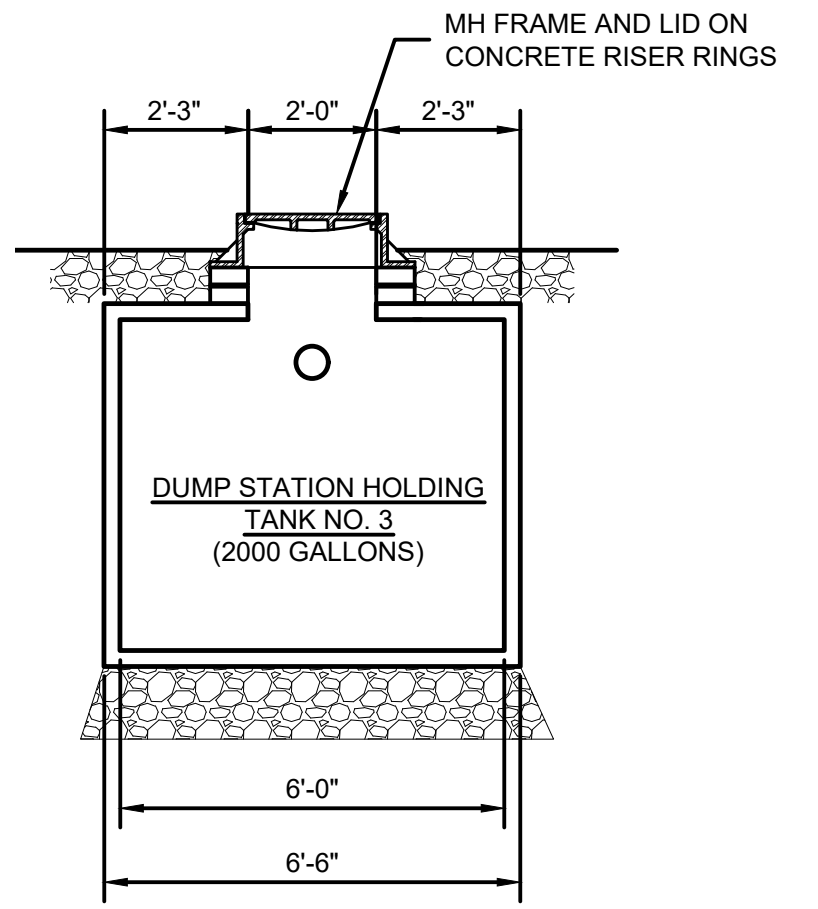
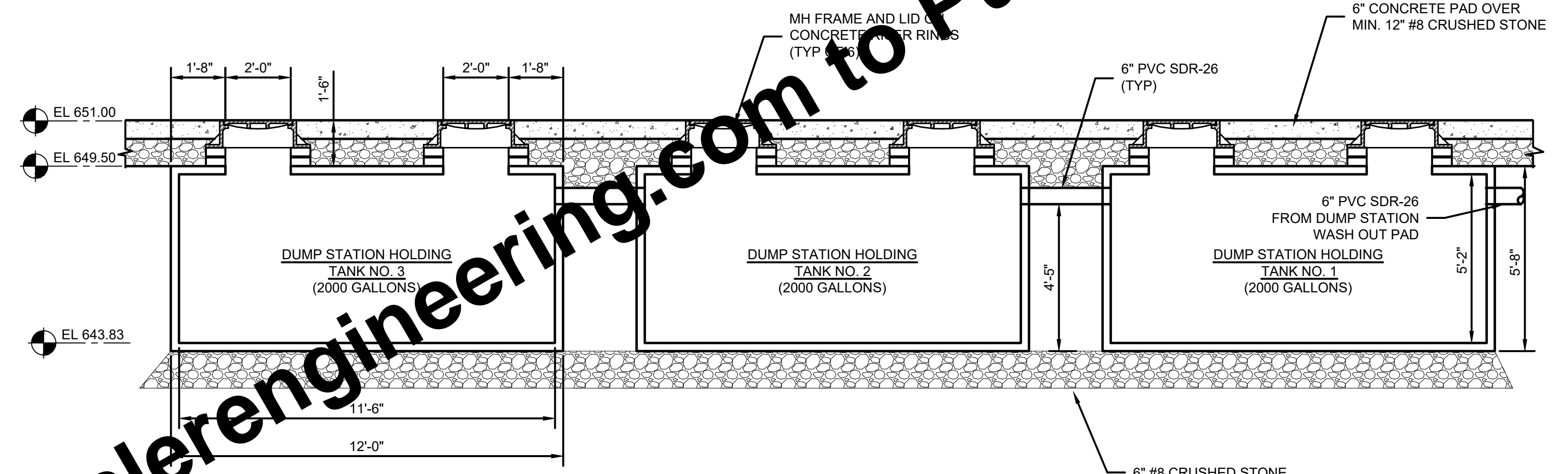
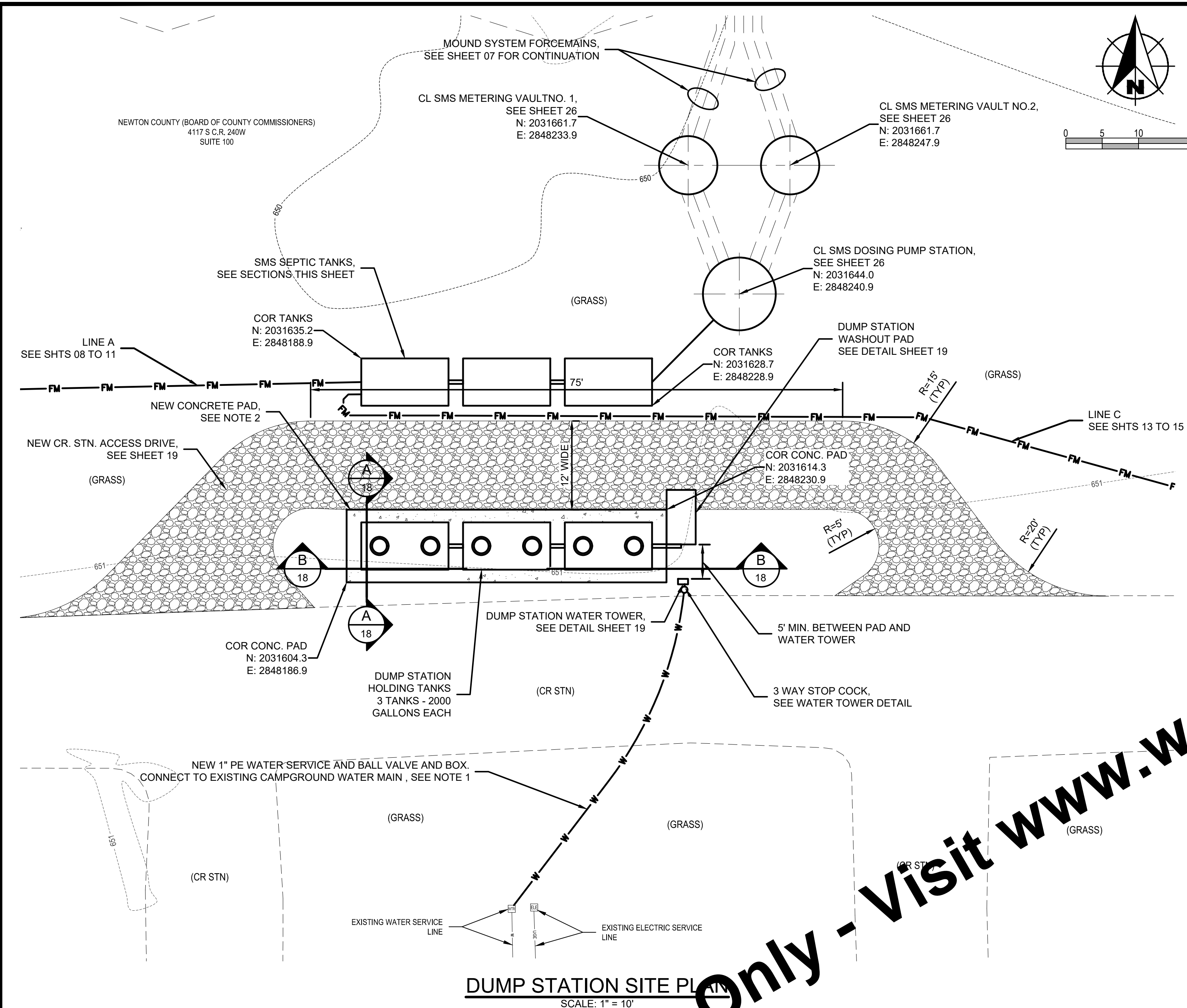
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	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM
 NEWTON COUNTY COMMISSIONERS
 NEWTON COUNTY, INDIANA
STORM STRUCTURE DETAILS

SHEET NO.
17
TOTAL SHEETS
30



DUMP STATION SITE PLAN
SCALE: 1" = 10'

SECTION B
SCALE: NONE

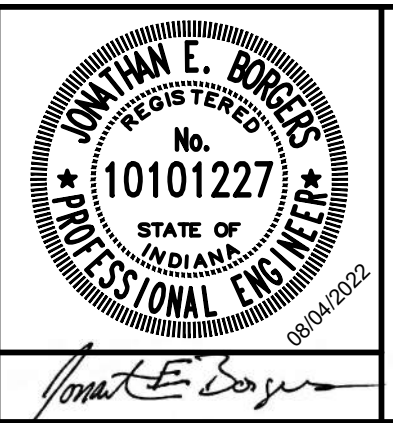
SECTION A
SCALE: NONE

- NOTES:**
- EXTEND NEW WATER SERVICE FROM EXISTING CAMPGROUND WATER MAIN TO NEW DUMP STATION WATER TOWER. VERIFY SIZE AND DEPTH OF EXISTING WATER MAIN PRIOR TO EXTENSION. PROVIDE ALL FITTINGS NECESSARY FOR COMPLETE INSTALLATION OF NEW 1" WATER SERVICE.
 - NEW 10' X 44' X 6" THICK REINFORCED CONCRETE PAD W/ 4 X 4 WWF.
 - INSTALL CONNECTING PIPES BETWEEN DUMP STATIONS TO TANK LEVEL AT THE SAME ELEVATION BETWEEN TANKS.

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Drawing: J:\Newtown Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheets\247321-MD.dwg | Layout: 18 | Plotter: 08/04/22 @ 09:45:08 | LastSavedBy: CurllSG

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	AUGUST 2022				
	PROJECT NUMBER				
	247321-04-001				

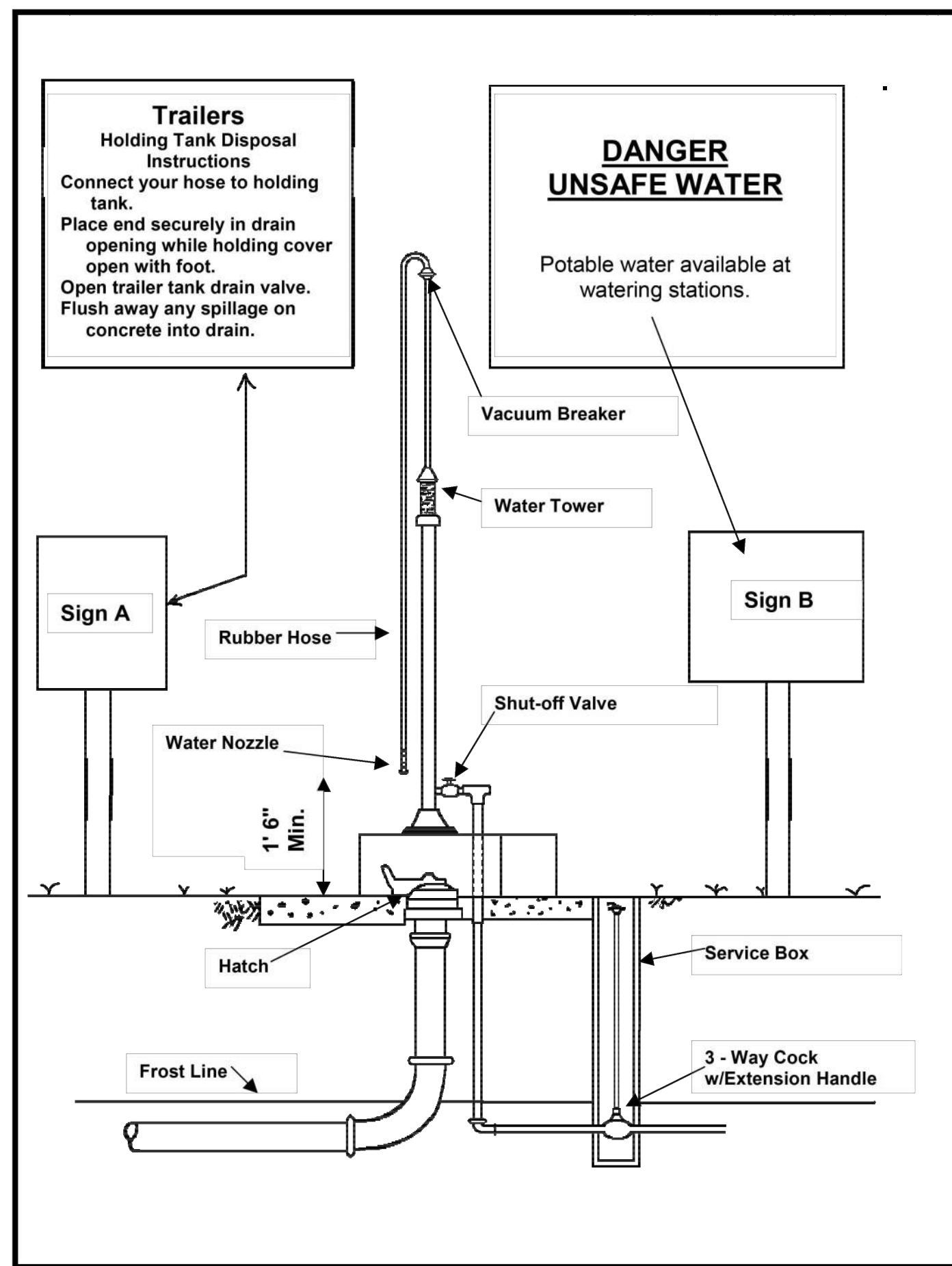


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

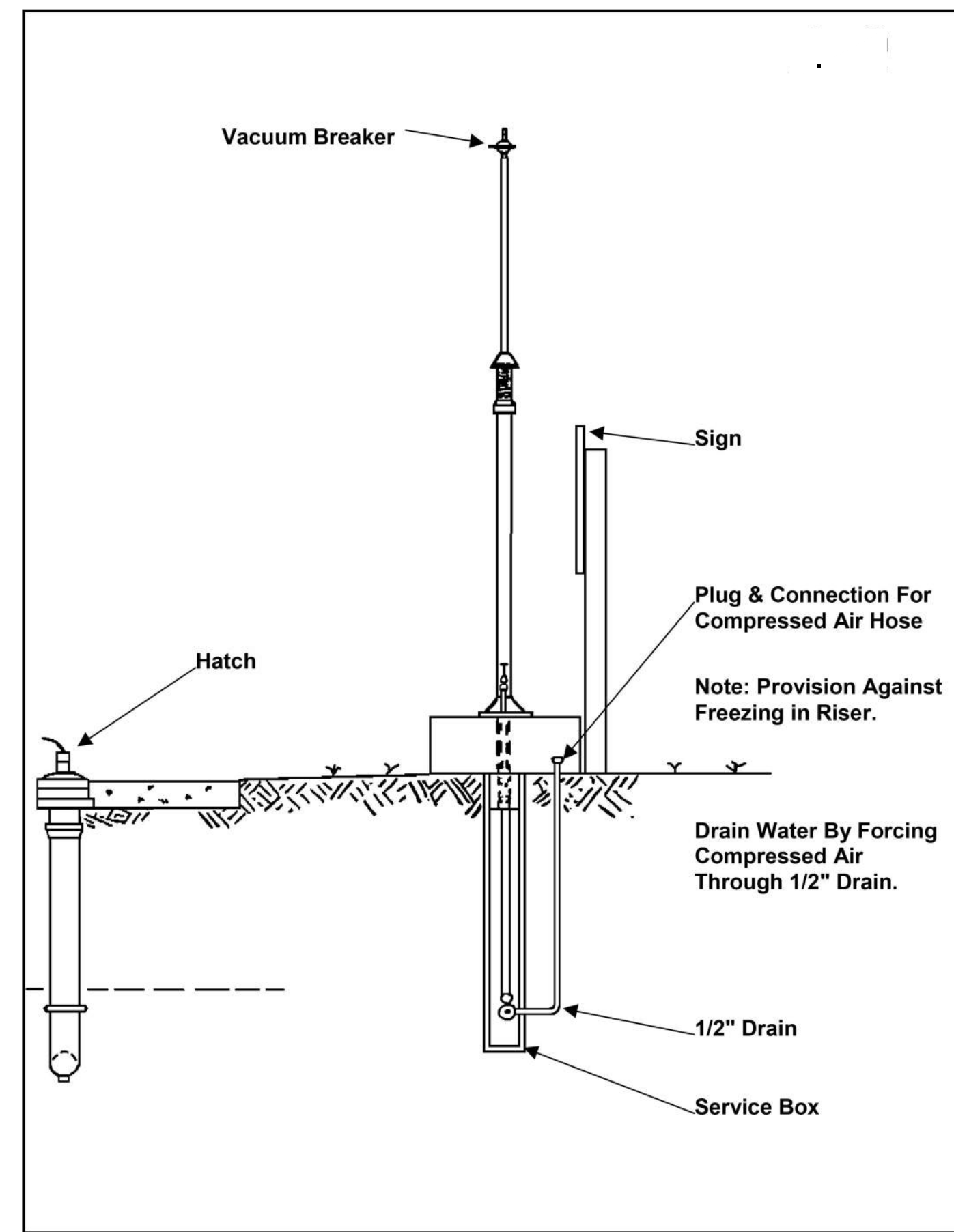
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

DUMP STATION PLAN AND SECTIONS

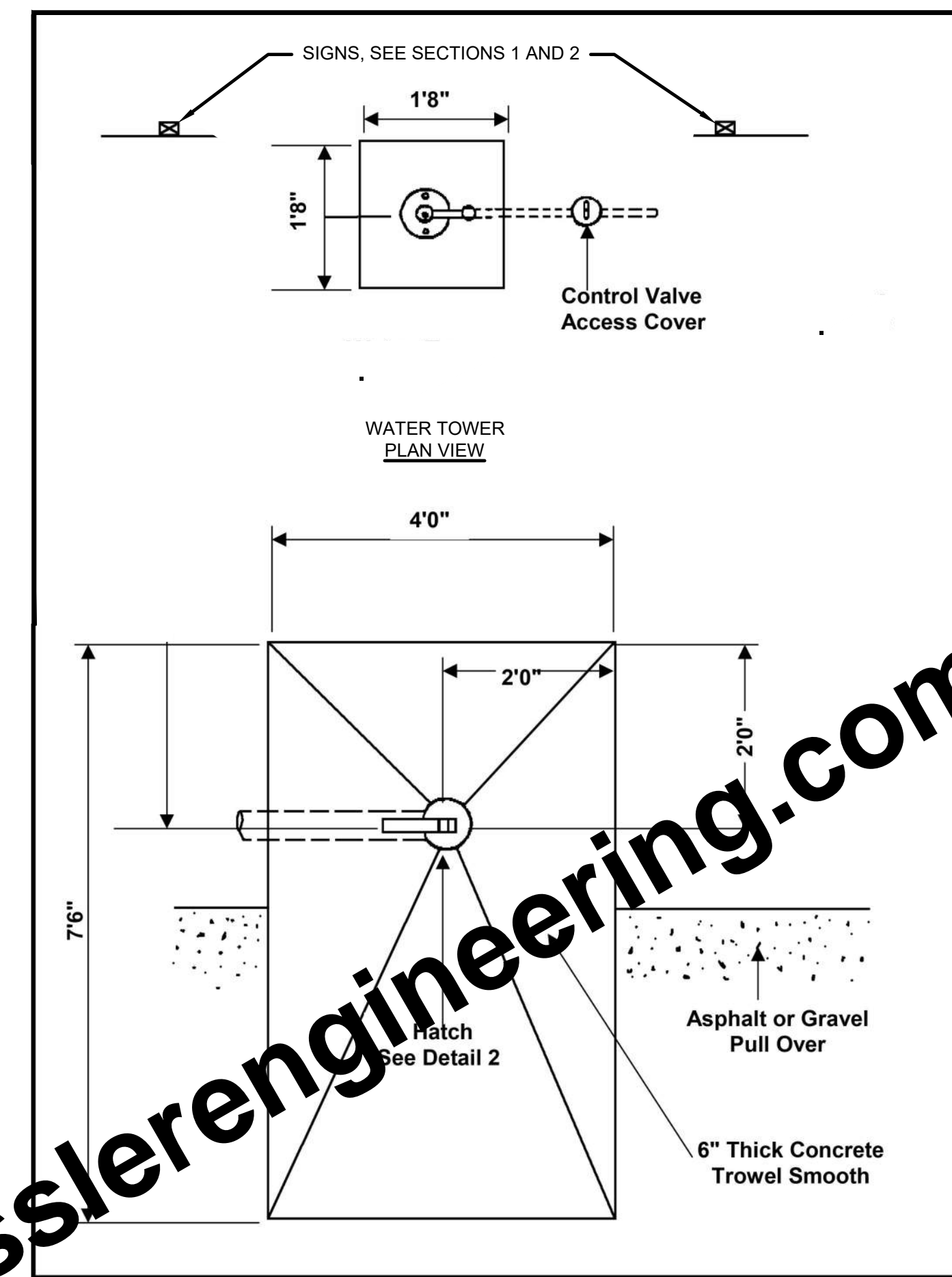
SHEET NO.	18
TOTAL SHEETS	30



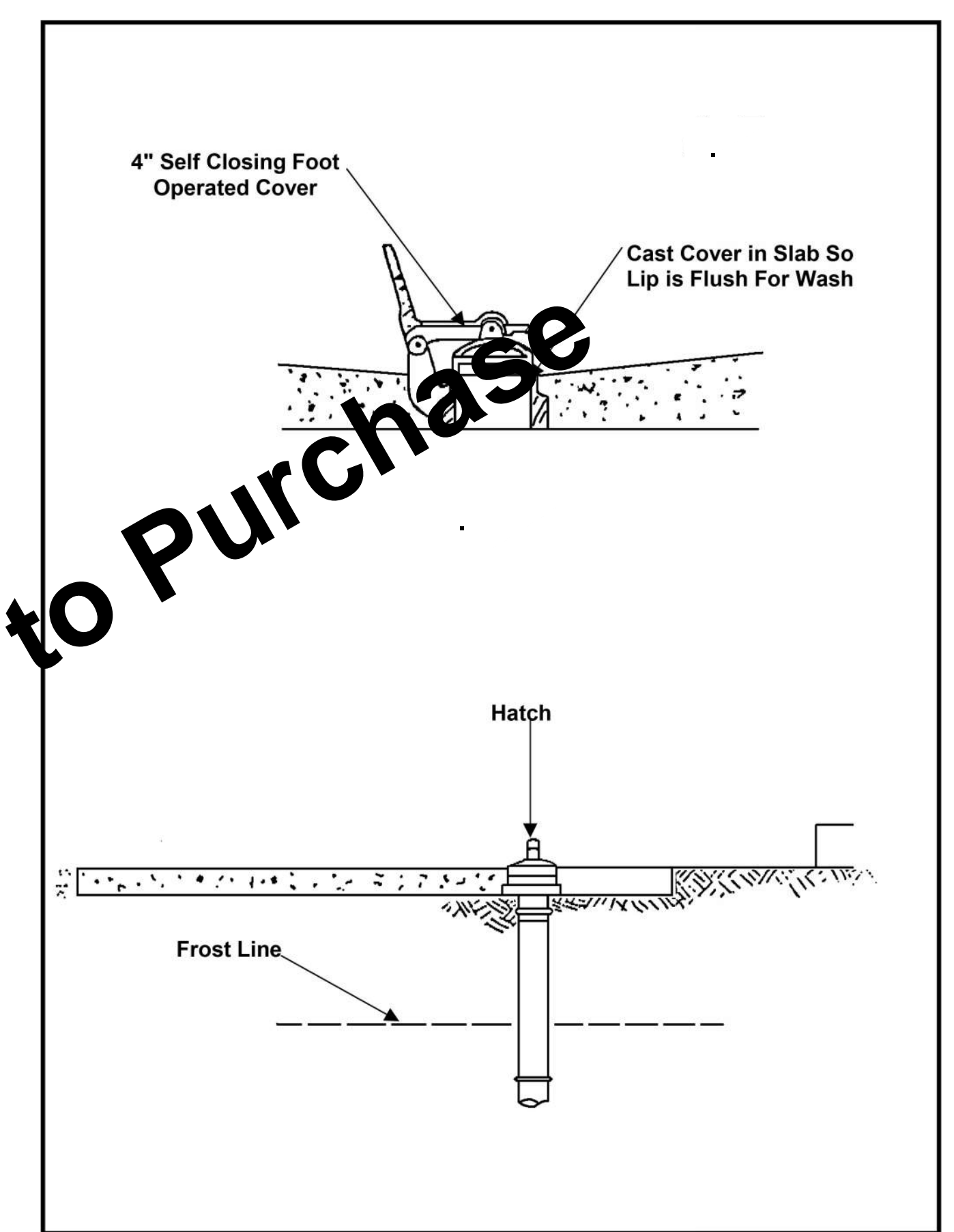
WATER TOWER SECTION NO. 1
SCALE: NONE



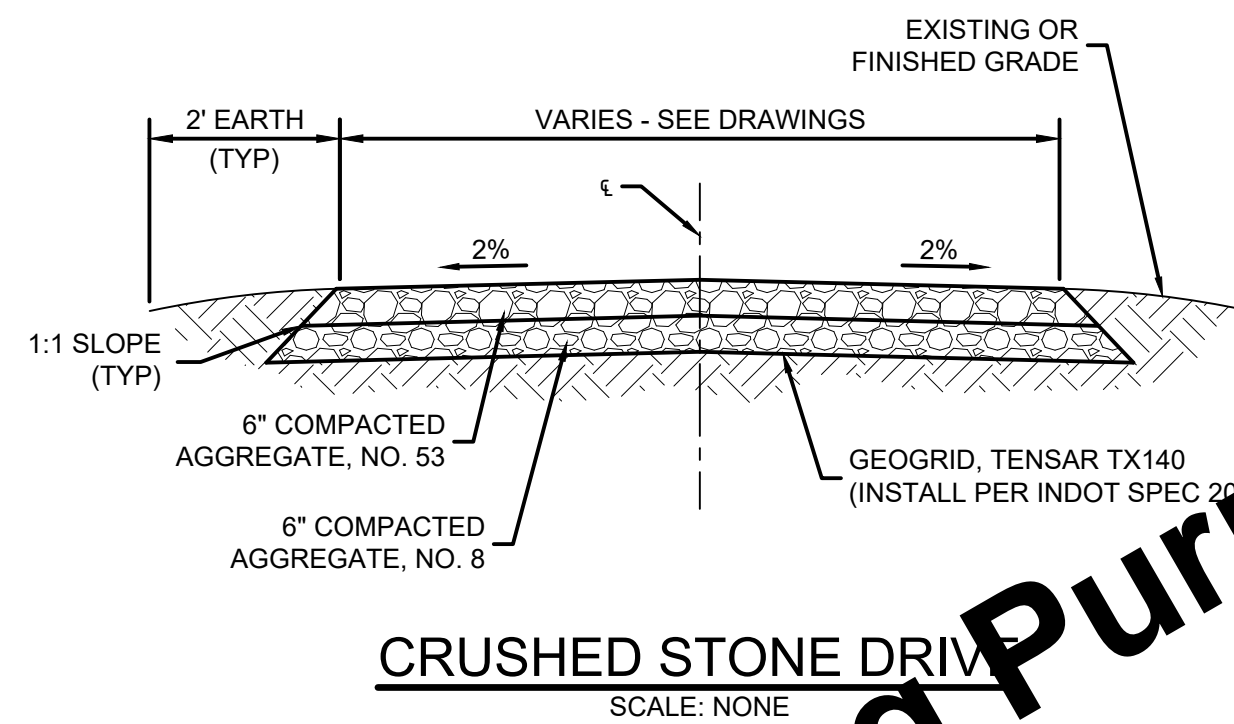
WATER TOWER SECTION NO. 2
SCALE: NONE



DUMP STATION WASH OUT PAD
SCALE: NONE



DUMP STATION WASH OUT DETAIL 2
SCALE: NONE



CRUSHED STONE DRIVE
SCALE: NONE

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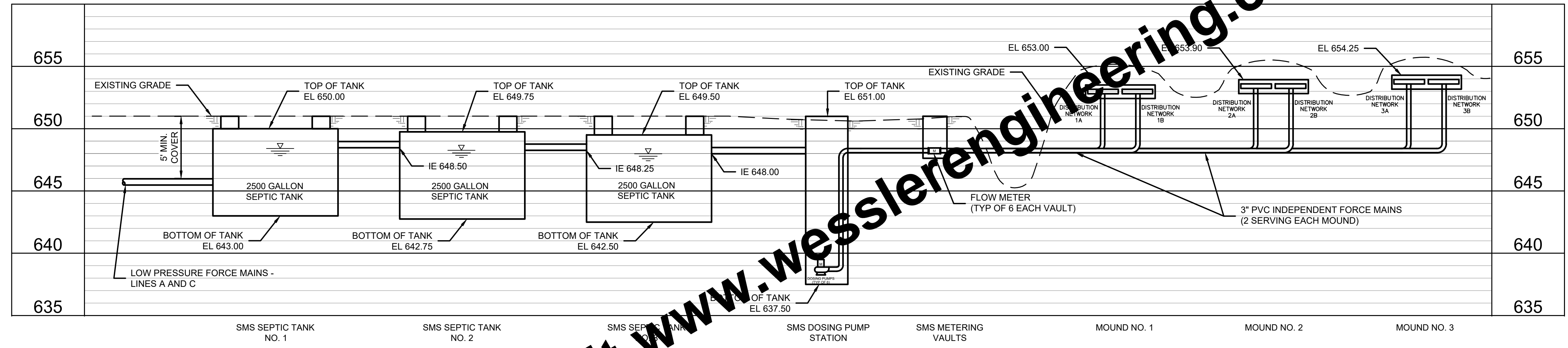
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

DUMP STATION DETAILS

SHEET NO.	19
TOTAL SHEETS	30

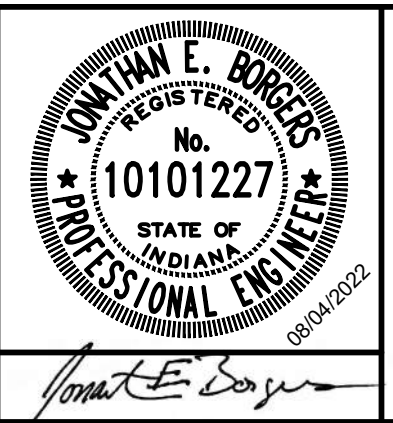
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SAND MOUND SYSTEM HYDRAULIC PROFILE
 HORIZ SCALE: NONE
 VERT SCALE: NONE

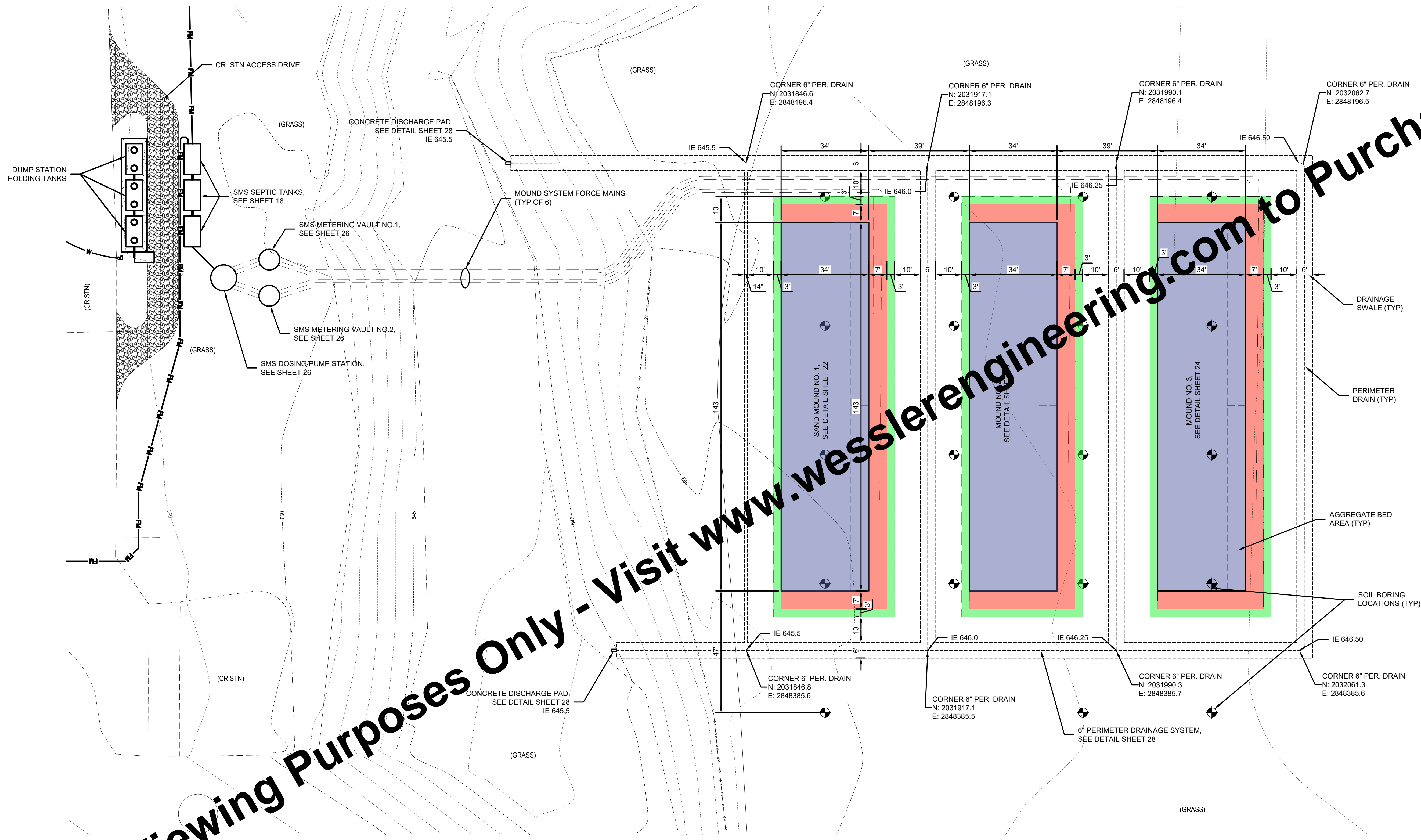
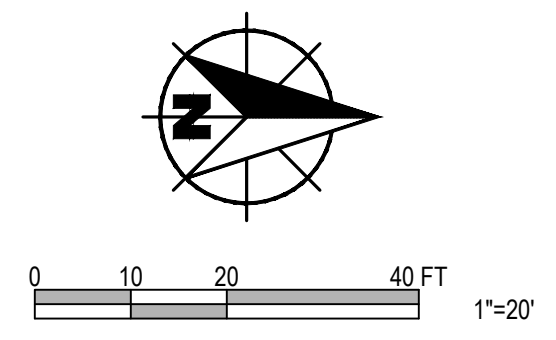
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	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM NEWTON COUNTY COMMISSIONERS NEWTON COUNTY, INDIANA
SAND MOUND SYSTEM HYDRAULIC PROFILE

SHEET NO. 20
TOTAL SHEETS 30



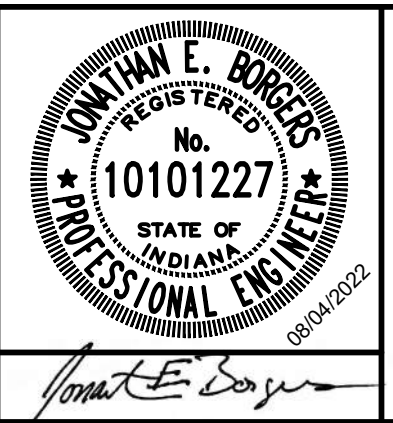
- LEGEND**
- SOIL COVER AREA
 - SAND LAYER AREA
 - BASAL AREA

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ELEVATED SAND MOUND ENLARGED PLAN
SCALE: 1" = 20'

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	PROJECT NUMBER	247321-04-001				

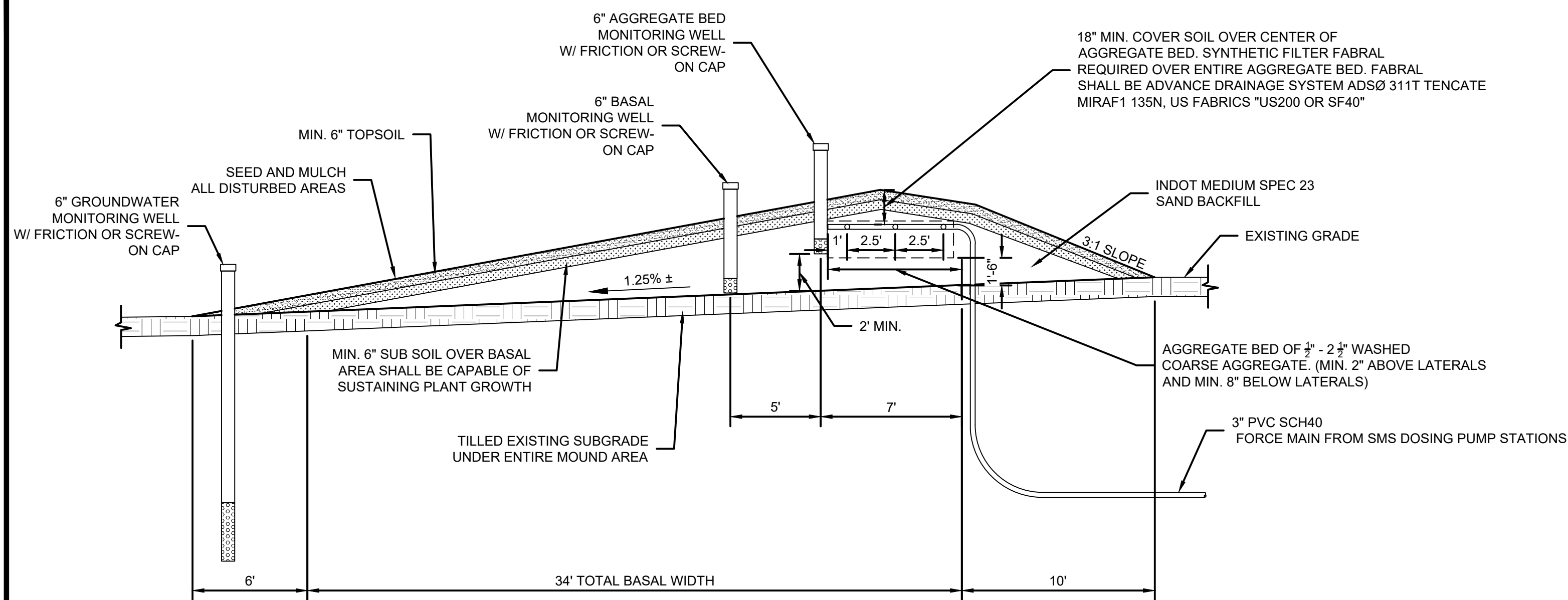


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

ELEVATED SAND MOUND ENLARGED PLAN

SHEET NO.	21
TOTAL SHEETS	30

Drawing: J:\Newton_Co\Projects\247321 Newton County Fairgrounds\CADD\DWG\Sheet\247321_S1-NEW.DWG | Layout: 22 | Plotlet: 09/04/22 @ 06:42:39 | LastSavedBy: CurisG

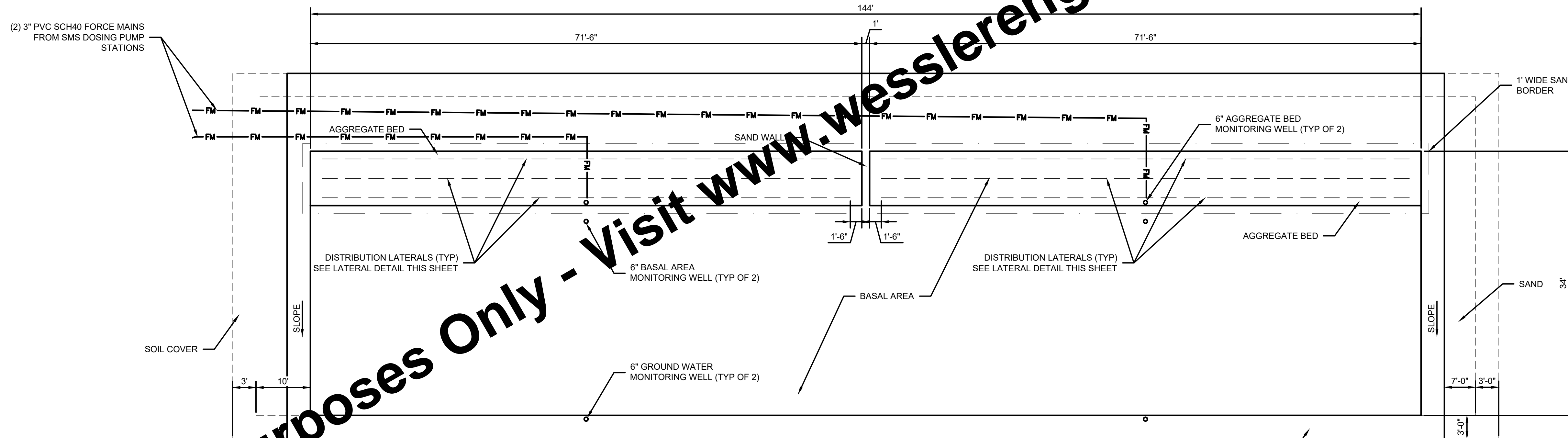


SAND MOUND NO. 1 SECTION
SCALE: NONE

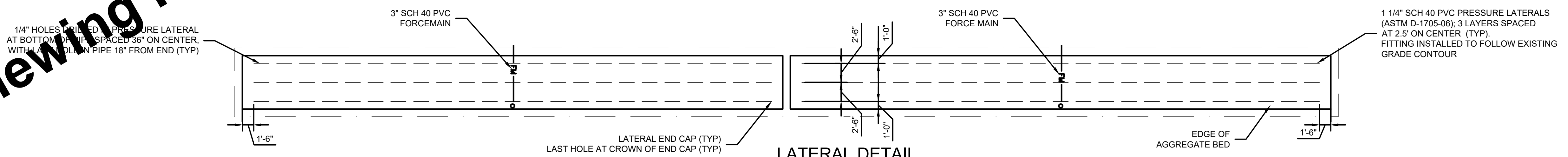
MOUND ELEVATION TABLE	
DESIGN PARAMETER	MOUND NO. 1
HIGHEST ELEVATION UNDER AGGREGATE BED (SEE NOTE 1)	650.50
BOTTOM ELEVATION OF AGGREGATE BED (SEE NOTE 2)	652.00
PRESSURE LATERAL INVERT ELEVATION	652.67
MANIFOLD INVERT ELEVATION	651.84
TOP ELEVATION AGGREGATE BED	653.00
TOP OF TOP SOIL AT PEAK OVER AGGREGATE BED	654.50

MOUND DESIGN PARAMETERS	
MOUND NO. 1	
GAL/DAY	1,200
TOTAL AGGREGATE BED AREA	1,001 SF
BASAL AREA	4,862 SF
MOUND WIDTH	50 FT
MOUND LENGTH	169 FT
TOTAL AGGREGATE BED LENGTH	143 FT
MINIMUM DIMENSIONS	
AGGREGATE BED	(2) 7 FT X 71.5 FT
DISTRIBUTION NETWORK	(2) 5 FT X 68.5 FT
BASAL AREA	30 FT X 143 FT
SAND	41 FT X 163 FT
TOPSOIL	51 FT X 169 FT

- NOTES:**
- SEE SPECIFICATIONS ON SHEET 6.
 - EXISTING GRADE FOR PURPOSES OF THIS SHEET IS EITHER THE UNDISTURBED GRADE OUTSIDE THE LANDSCAPE MOUNDS OR THE FINAL GRADE IN AREAS WHERE LANDSCAPE MOUND SOIL HAS BEEN REMOVED.
 - BOTTOM OF AGGREGATE BED WAS DETERMINED FROM ACTUAL CROSS SECTIONS AND MAY BE MORE THAN 18" ABOVE EXISTING GRADE.
 - MOUND AGGREGATE BED AND PRESSURE LATERALS SHALL BE INSTALLED ALONG THE ESTABLISHED GROUND CONTOURS. SEE DETAILS THIS SHEET FOR SPACING OF PRESSURE LATERALS, DEPTH, AND WIDTH OF AGGREGATE BED, BASAL AREA, SUBSOIL, AND TOPSOIL.
 - THE INSIDE FACE OF THE PERIMETER DRAIN IS TO BE AT LEAST 10 FEET FROM THE SAND PERIMETER.
- SOIL COVER OVER SAND BASAL AREA (INDOT 23 SAND)**
- PRIOR TO PLACEMENT OF SOLID COVER, SAND SHALL BE COMPACTED BY MAINTAINING A MINIMUM GRADE OF AT LEAST 3:1. SURFACE SHALL BE SMOOTH, FREE OF FROGS AND DEPRESSIONS.
 - SUB SOIL SHALL BE FREE OF ROCKS AND LIGHT PARTICLES. DEPTH OF 6" SUB SOIL SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED TOPSOIL TO BE NOT SAND OR LOAMY SAND, AND SHALL BE CAPABLE OF SUSTAINING PLANT GROWTH.
 - TOPSOIL SHALL BE MINIMUM THICKNESS OF 6" OF TOPSOIL PLACED OVER SUB SOIL AND SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED TOPSOIL TO BE NOT SAND OR LOAMY SAND, AND SHALL CONTAIN NO ROCKS LARGER THAN 1 INCH.
- VEGETATIVE ESTABLISHMENT AT ALL DISTURBED AREAS IS REQUIRED**
- FINE GRADE TOPSOIL COVER OVER MOUNDS AND ALL DISTURBED AREAS BY CONSTRUCTION OF THE ON-SITE DRAINAGE SYSTEM.
 - SEED AND FERTILIZE ALL DISTURBED AREAS.
 - SEED SHALL BE 3 POUNDS/1,000 SF. SEED SHALL BE 35 PARTS KENTUCKY BLUE GRASS, 30 PARTS PERENNIAL RYE, 30 PARTS KENTUCKY 32 FESCUE, AND 5 PARTS INERT MATTER.
- TESTING**
- STANDPIPE PER DETAIL SHEET 26 IS REQUIRED ON THE END OF THE LONGEST LATERAL FROM THE DOSING STATION (PER ZONE). IT MUST HAVE 3 TO 4 FEET OF HEAD PER ZONE TESTING LOCATION. CUT AND CAP JUST BELOW GRADE.
- LATERALS**
- 75 HOLES PER LATERAL PER NETWORK
75 HOLES X 3 LATERALS
150 HOLES PER NETWORK
 - ALL HOLES MUST BE DE-DURRED. DRILL USING FRESH FORSTNER BITS
 - LAST HOLE IN LATERAL AT CROWN OF END CAP



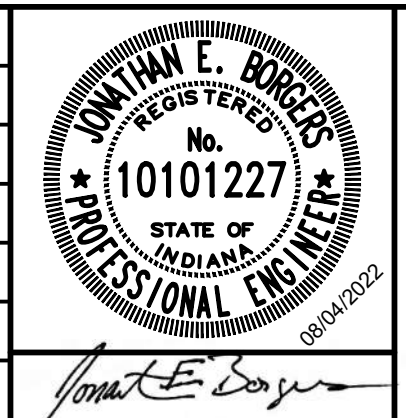
SAND MOUND NO. 1 DETAIL
SCALE: NONE



LATERAL DETAIL
SCALE: NONE

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	PROJECT NUMBER	247321-04-001				



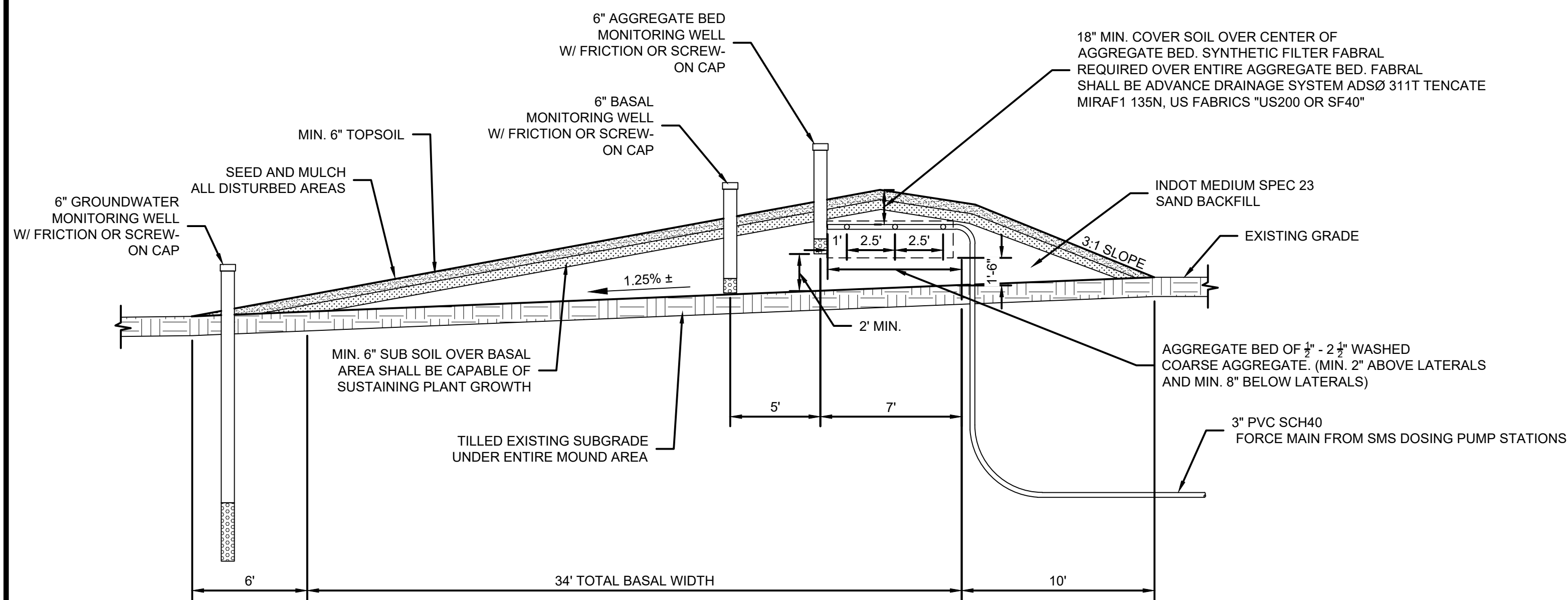
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

SAND MOUND NO. 1 SECTION AND DETAILS

SHEET NO.	22
TOTAL SHEETS	30

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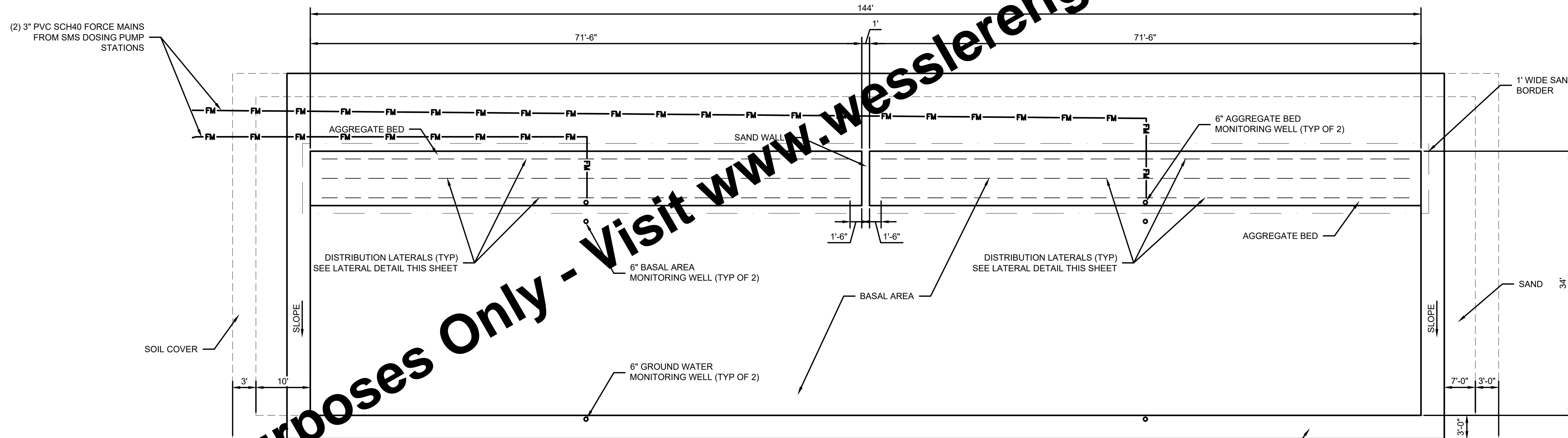


SAND MOUND NO. 2 SECTION
SCALE: NONE

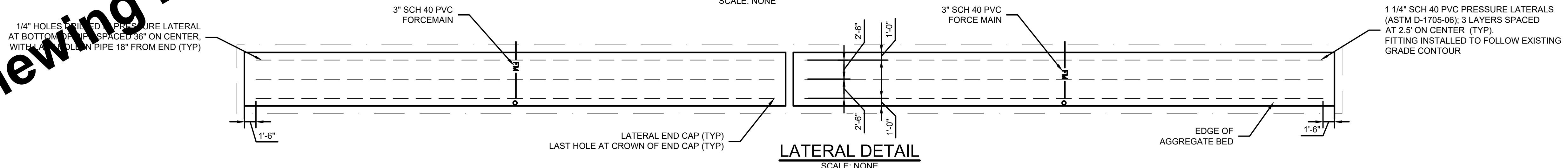
MOUND ELEVATION TABLE	
DESIGN PARAMETER	MOUND NO. 2
HIGHEST ELEVATION UNDER AGGREGATE BED (SEE NOTE 1)	651.40
BOTTOM ELEVATION OF AGGREGATE BED (SEE NOTE 2)	652.90
PRESSURE LATERAL INVERT ELEVATION	653.57
MANIFOLD INVERT ELEVATION	652.74
TOP ELEVATION AGGREGATE BED	653.90
TOP OF TOP SOIL AT PEAK OVER AGGREGATE BED	655.40

MOUND DESIGN PARAMETERS	
MOUND NO. 2	
GAL/DAY	1,200
TOTAL AGGREGATE BED AREA	1,001 SF
BASAL AREA	4,862 SF
MOUND WIDTH	50 FT
MOUND LENGTH	169 FT
TOTAL AGGREGATE BED LENGTH	143 FT
MINIMUM DIMENSIONS	
AGGREGATE BED	(2) 7 FT X 71.5 FT
DISTRIBUTION NETWORK	(2) 5 FT X 68.5 FT
BASAL AREA	34 FT X 144 FT
SAND	41 FT X 163 FT
TOPSOIL	51 FT X 169 FT

- NOTES:**
- SEE SPECIFICATIONS ON SHEET 6.
 - EXISTING GRADE FOR PURPOSES OF THIS SHEET IS EITHER THE UNDISTURBED GRADE OUTSIDE THE LANDSCAPE MOUNDS OR THE FINAL GRADE IN AREAS WHERE LANDSCAPE MOUND SOIL HAS BEEN REMOVED.
 - BOTTOM OF AGGREGATE BED WAS DETERMINED FROM ACTUAL CROSS SECTIONS AND MAY BE MORE THAN 18" ABOVE EXISTING GRADE.
 - MOUND AGGREGATE BED AND PRESSURE LATERALS SHALL BE INSTALLED ALONG THE ESTABLISHED GROUND CONTOURS. SEE DETAILS THIS SHEET FOR SPACING OF PRESSURE LATERALS, DEPTH, AND WIDTH OF AGGREGATE BED, BASAL AREA, SUBSOIL, AND TOPSOIL.
 - THE INSIDE FACE OF THE PERIMETER DRAIN IS TO BE AT LEAST 10 FEET FROM THE SAND PERIMETER.
- SOIL COVER OVER SAND BASAL AREA (INDOT 23 SAND)**
- PRIOR TO PLACEMENT OF SOLID COVER, SAND SHALL BE PLACED BY MAINTAINING A MINIMUM GRADE OF AT LEAST 3:1. SURFACE SHALL BE SMOOTH, FREE OF FROGS AND DEPRESSIONS.
 - SUB SOIL SHALL BE FREE OF ROCKS AND LIGHTLY TILLED. DEPTH OF 6" SUB SOIL SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED SOIL. SOIL SHALL NOT BE SAND OR LOAMY SAND, AND SHALL BE CAPABLE OF SUSTAINING PLANT GROWTH.
 - TOPSOIL SHALL BE MINIMUM THICKNESS OF 6" OF TOPSOIL PLACED OVER SUB SOIL AND SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED SOIL. TOPSOIL SHALL BE LIGHT, FREE OF LARGE CLODS, AND SHALL CONTAIN NO ROCKS LARGER THAN 1 INCH.
- VEGETATIVE ESTABLISHMENT AT ALL DISTURBED AREAS IS REQUIRED**
- FINE GRADE TOPSOIL COVER OVER MOUNDS AND ALL DISTURBED AREAS BY CONSTRUCTION OF THE ON-SITE SWAGE SYSTEM.
 - SEED AND FERTILIZE ALL DISTURBED AREAS.
 - SEED SHALL BE 3 POUNDS/1,000 SF. SEED SHALL BE 35 PARTS KENTUCKY BLUE GRASS, 30 PARTS PERENNIAL RYE, 30 PARTS KENTUCKY 32 FESCUE, AND 5 PARTS INERT MATTER.
- TESTING**
- STANDPIPE PER DETAIL SHEET 26 IS REQUIRED ON THE END OF THE LONGEST LATERAL FROM THE DOSING STATION (PER ZONE). IT MUST HAVE 3 TO 4 FEET OF HEAD PER ZONE TESTING LOCATION. CUT AND CAP JUST BELOW GRADE.
- LATERALS**
- 75 HOLES PER LATERAL PER NETWORK
75 HOLES X 3 LATERALS
150 HOLES PER NETWORK
 - ALL HOLES MUST BE DE-DURRED. DRILL USING FRESH FORSTNER BITS
 - LAST HOLE IN LATERAL AT CROWN OF END CAP

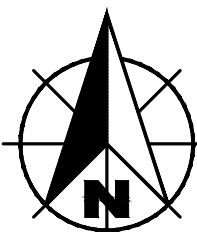


SAND MOUND NO. 2 DETAIL
SCALE: NONE



LATERAL DETAIL
SCALE: NONE

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	PROJECT NUMBER	247321-04-001				

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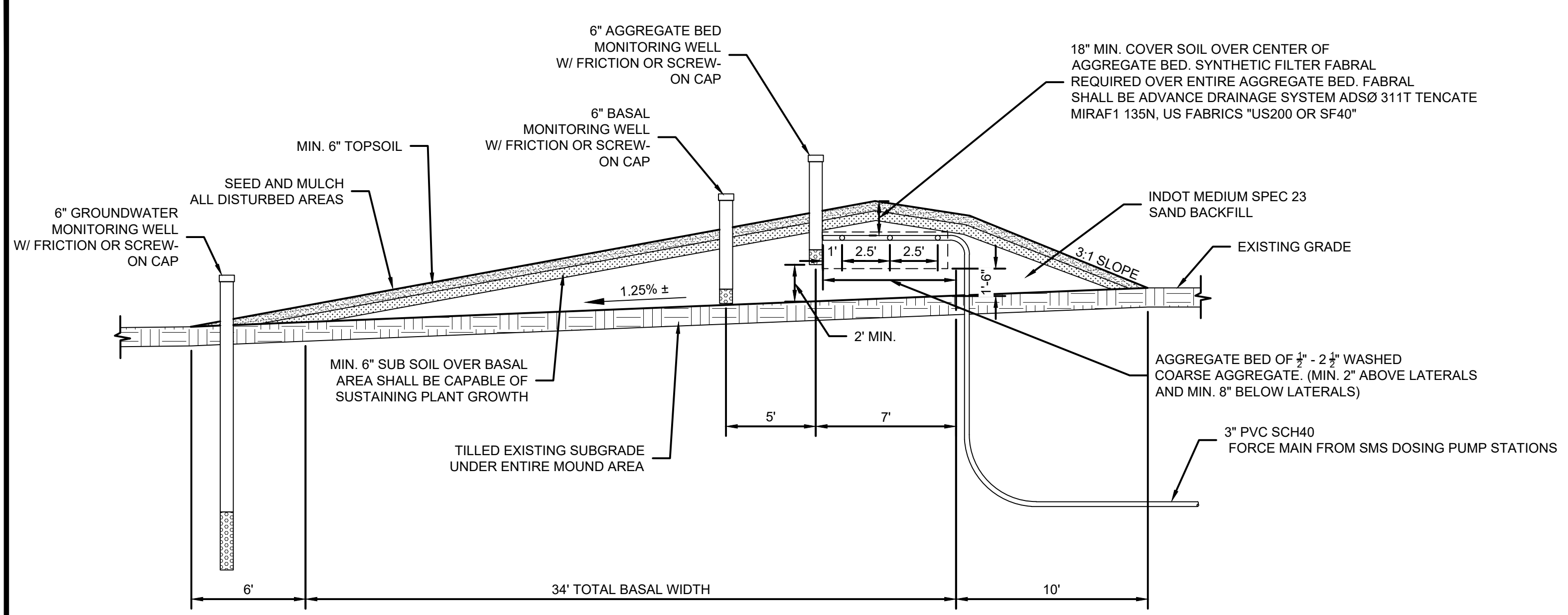
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

SAND MOUND NO. 2 SECTION AND DETAILS

SHEET NO.	23
TOTAL SHEETS	30

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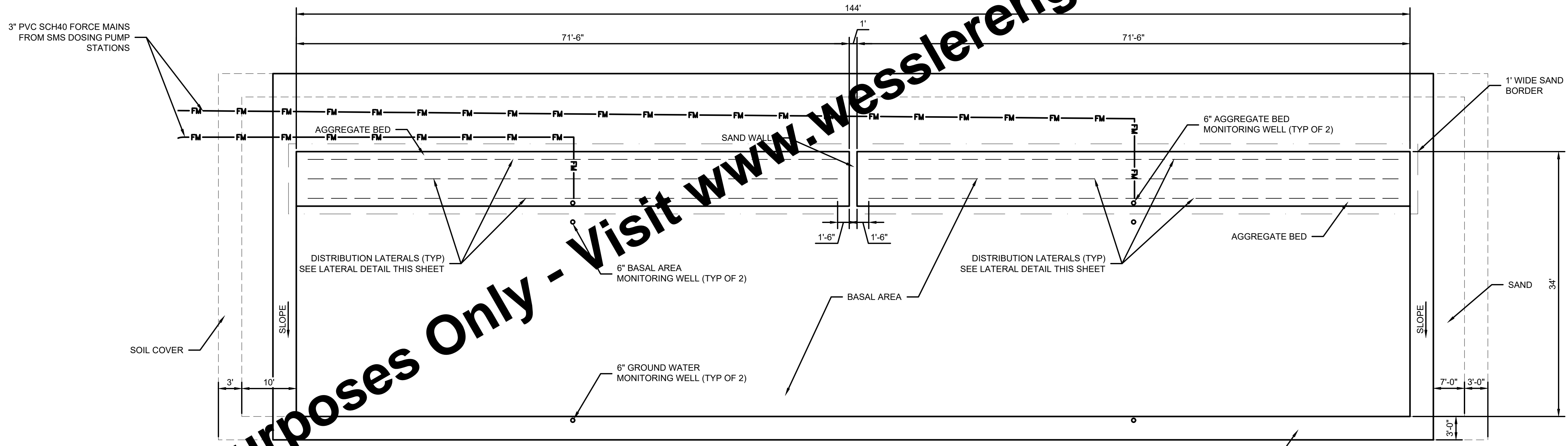


MOUND ELEVATION TABLE	
DESIGN PARAMETER	MOUND NO. 3
HIGHEST ELEVATION UNDER AGGREGATE BED (SEE NOTE 1)	651.75
BOTTOM ELEVATION OF AGGREGATE BED (SEE NOTE 2)	653.25
PRESSURE LATERAL INVERT ELEVATION	653.92
MANIFOLD INVERT ELEVATION	653.09
TOP ELEVATION AGGREGATE BED	654.25
TOP OF TOP SOIL AT PEAK OVER AGGREGATE BED	655.75

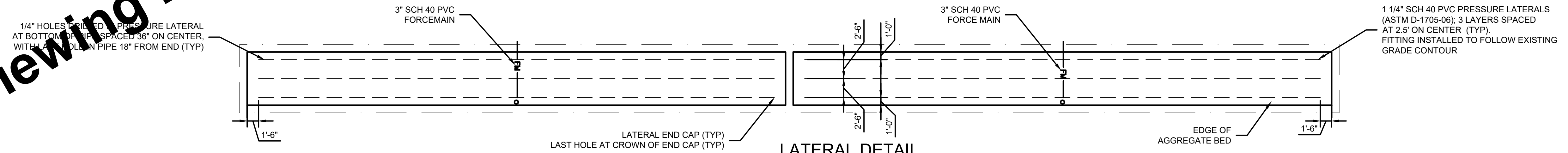
MOUND DESIGN PARAMETERS	
MOUND NO. 3	
GAL/DAY	1,200
TOTAL AGGREGATE BED AREA	1,001 SF
BASAL AREA	4,862 SF
MOUND WIDTH	50 FT
MOUND LENGTH	169 FT
TOTAL AGGREGATE BED LENGTH	143 FT
MINIMUM DIMENSIONS	
AGGREGATE BED	(2) 7 FT X 71.5 FT
DISTRIBUTION NETWORK	(2) 5 FT X 68.5 FT
BASAL AREA	34 FT X 143 FT
SAND	11 FT X 68.5 FT
TOPSOIL	5 FT X 169 FT

- NOTES:**
- SEE SPECIFICATIONS ON SHEET 6.
 - EXISTING GRADE FOR PURPOSES OF THIS SHEET IS EITHER THE UNDISTURBED GRADE OUTSIDE THE LANDSCAPE MOUND SOIL HAS BEEN REMOVED.
 - BOTTOM OF AGGREGATE BED WAS DETERMINED FROM ACTUAL CROSS SECTIONS AND MAY BE MORE THAN 18" ABOVE EXISTING GRADE.
 - MOUND AGGREGATE BED AND PRESSURE LATERALS SHALL BE INSTALLED ALONG THE ESTABLISHED GROUND CONTOURS. SEE DETAILS THIS SHEET FOR SPACING OF PRESSURE LATERALS, DEPTH, AND WIDTH OF AGGREGATE BED, BASAL AREA, SUBSOIL, AND TOPSOIL.
 - THE INSIDE FACE OF THE PERIMETER DRAIN IS TO BE AT LEAST 10 FEET FROM THE SAND PERIMETER.
- SOIL COVER OVER SAND BASAL AREA (INDOT 23 SAND)**
- PRIOR TO PLACEMENT OF SOLID COVER, SAND SHALL BE PLACED BY MAINTAINING A MINIMUM GRADE OF AT LEAST 3:1. SURFACE SHALL BE SMOOTH, FREE OF FRICTIONS AND DEPRESSIONS.
 - SUB SOIL SHALL BE FREE OF ROCKS AND LIGHT PARTICLES. DEPTH OF 6" SUB SOIL SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED SUBSOIL. IT SHALL NOT BE SAND OR LOAMY SAND, AND SHALL BE CAPABLE OF SUSTAINING PLANT GROWTH.
 - TOPSOIL SHALL BE MINIMUM THICKNESS OF 6" OF TOPSOIL PLACED OVER SUB SOIL AND SHALL BE PLACED OVER SAND BASAL AREA WITHOUT CAUSING COMPACTED SUBSOIL. TOPSOIL SHALL BE LIGHT, FREE OF LARGE CLODS, AND SHALL CONTAIN NO ROCKS LARGER THAN 1 INCH.
- VEGETATIVE ESTABLISHMENT AT ALL DISTURBED AREAS IS REQUIRED**
- FINE GRADE TOPSOIL COVER OVER MOUNDS AND ALL DISTURBED AREAS BY CONSTRUCTION OF THE ON-SITE SWAGE SYSTEM.
 - SEED AND FERTILIZE ALL DISTURBED AREAS.
 - SEED SHALL BE 3 POUNDS/1,000 SF. SEED SHALL BE 35 PARTS KENTUCKY BLUE GRASS, 30 PARTS PERENNIAL RYE, 30 PARTS KENTUCKY 32 FESCUE, AND 5 PARTS INERT MATTER.
- TESTING**
- STANDPIPE PER DETAIL SHEET 26 IS REQUIRED ON THE END OF THE LONGEST LATERAL FROM THE DOSING STATION (PER ZONE). IT MUST HAVE 3 TO 4 FEET OF HEAD PER ZONE TESTING LOCATION. CUT AND CAP JUST BELOW GRADE.
- LATERALS**
- 75 HOLES PER LATERAL PER NETWORK
75 HOLES X 3 LATERALS
150 HOLES PER NETWORK
 - ALL HOLES MUST BE DE-DURRED. DRILL USING FRESH FORSTNER BITS
 - LAST HOLE IN LATERAL AT CROWN OF END CAP

SAND MOUND NO. 3 SECTION
SCALE: NONE

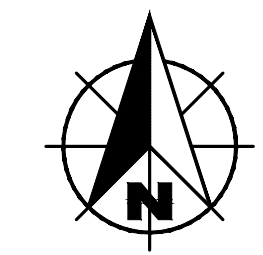


SAND MOUND NO. 3 DETAIL
SCALE: NONE

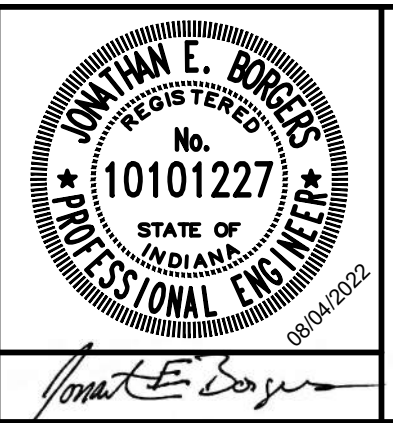


LATERAL DETAIL
SCALE: NONE

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	PROJECT NUMBER	247321-04-001				

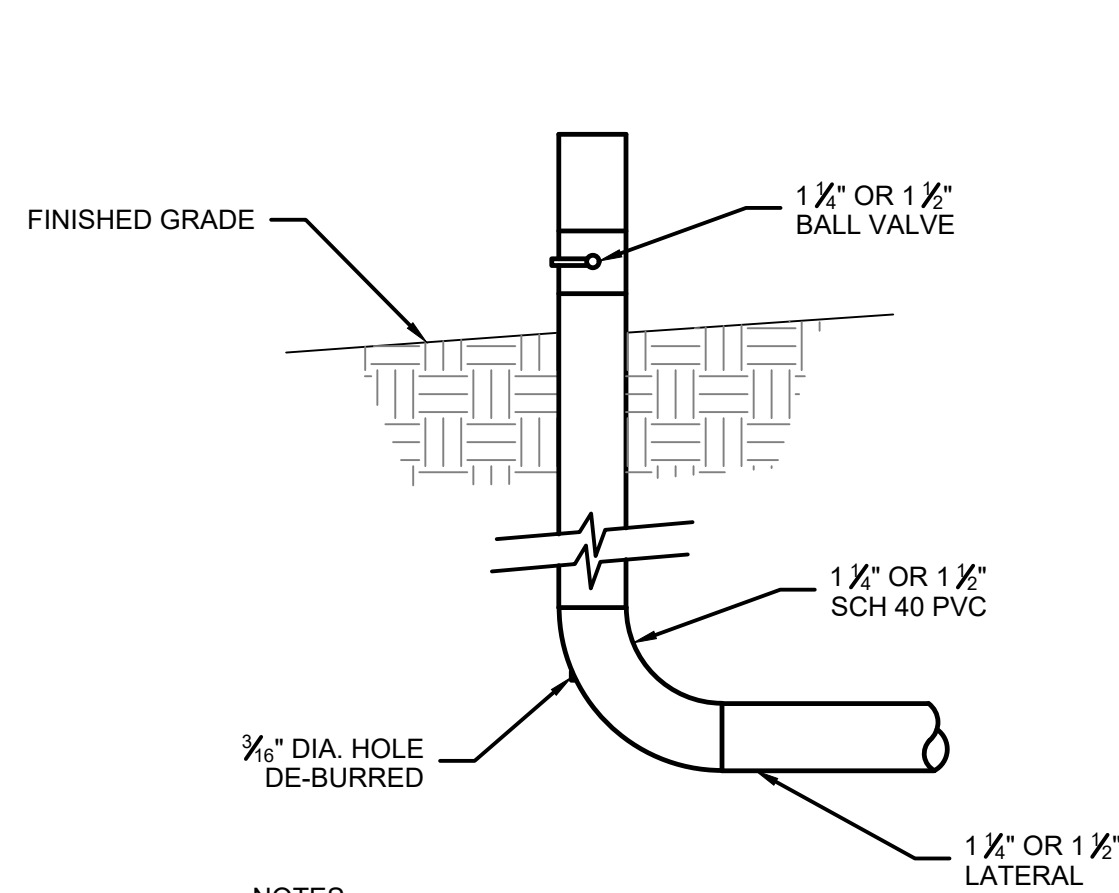


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

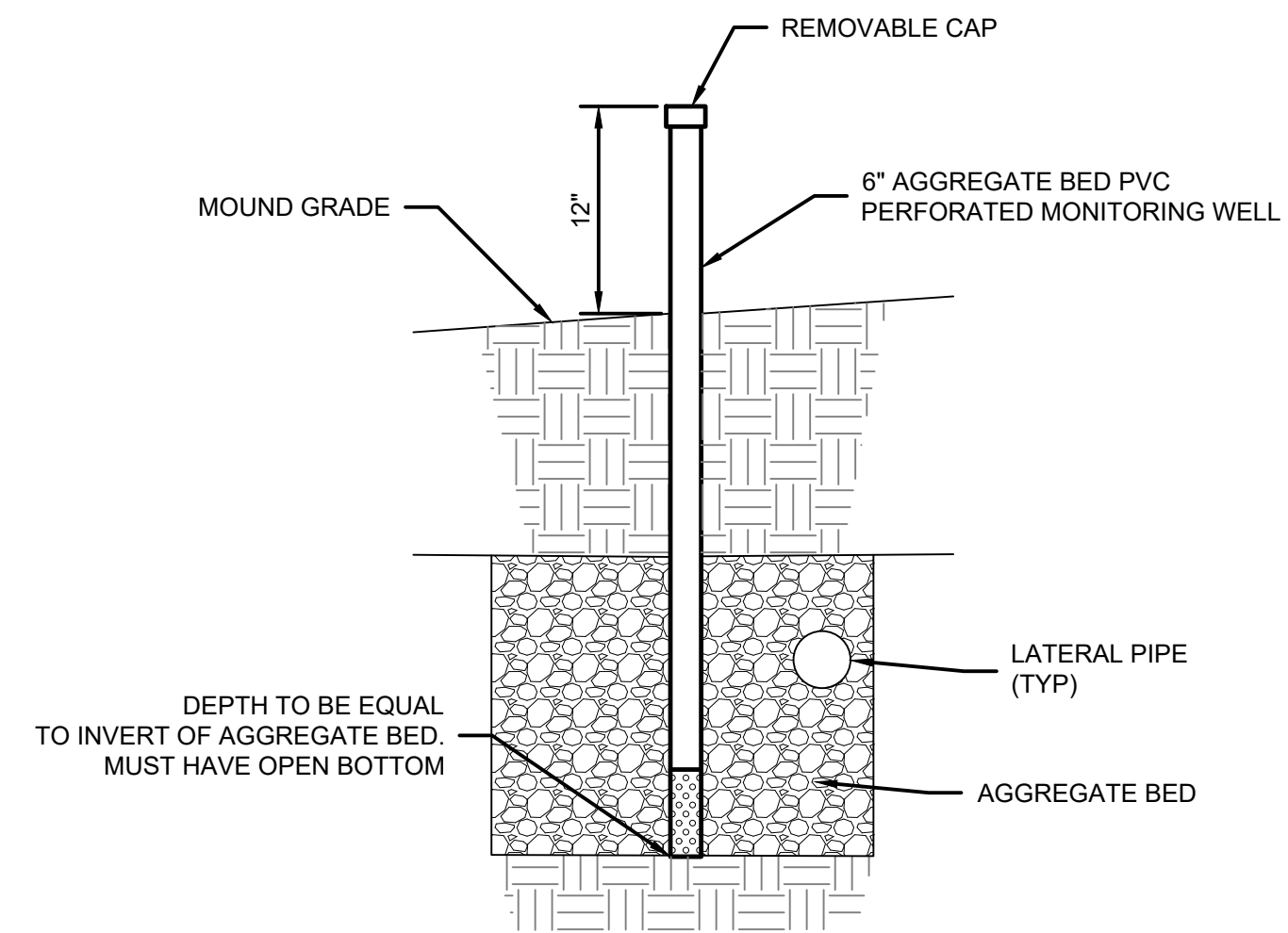
SAND MOUND NO. 3 SECTION AND DETAILS

SHEET NO.	24
TOTAL SHEETS	30

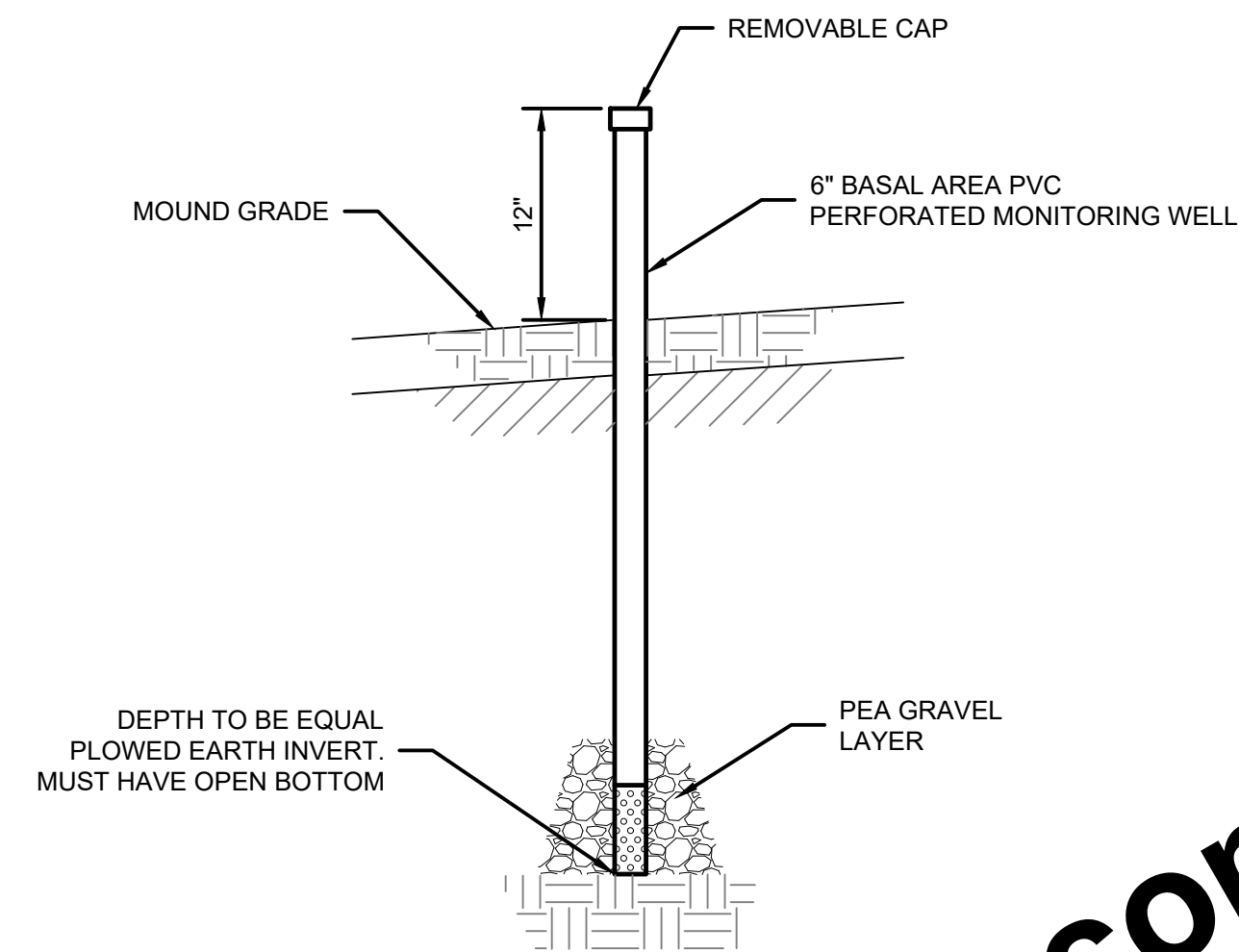


- NOTES:**
1. CUT AND CAP FLUSH WITH FINAL GRADE FOLLOWING TESTING
 2. ONE (1) STANDPIPE PER ZONE PER MOUND

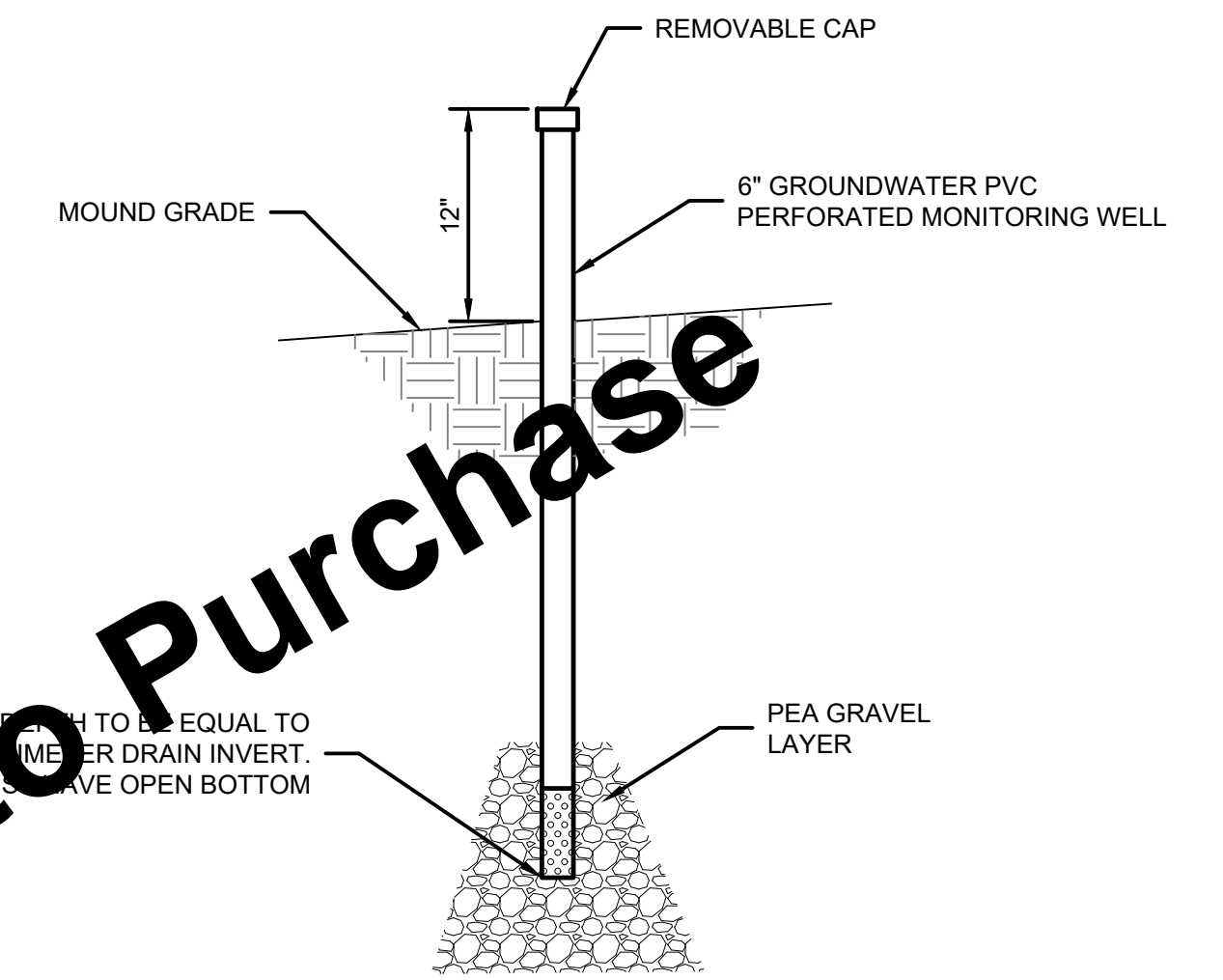
STANDPIPE DETAIL
SCALE: NONE



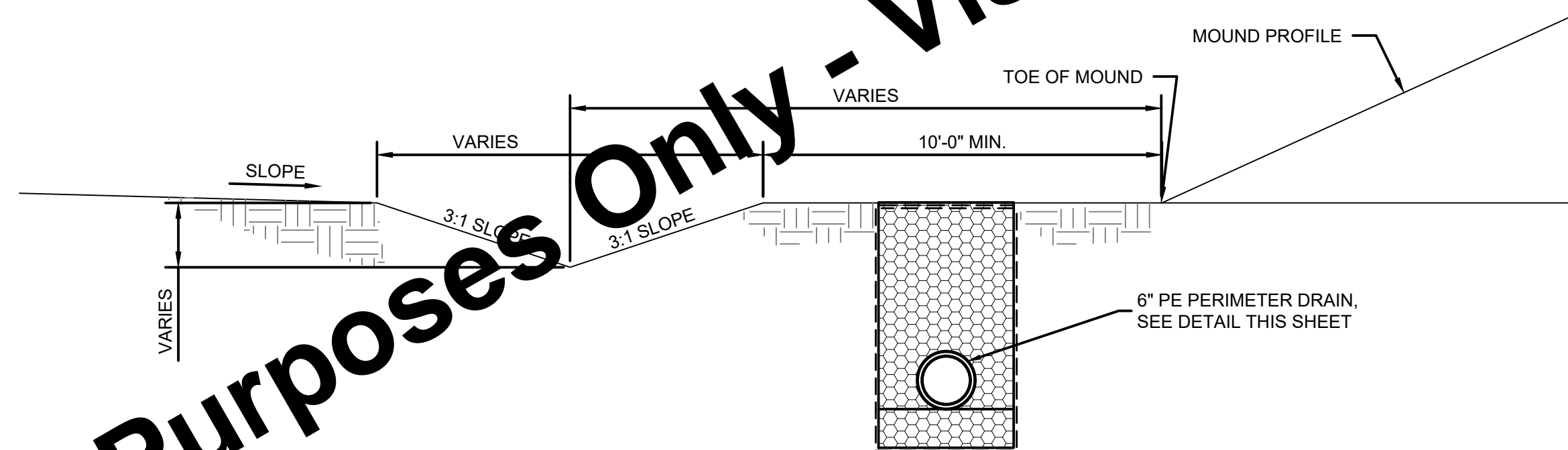
AGGREGATE BED MONITORING WELL DETAIL
SCALE: NONE



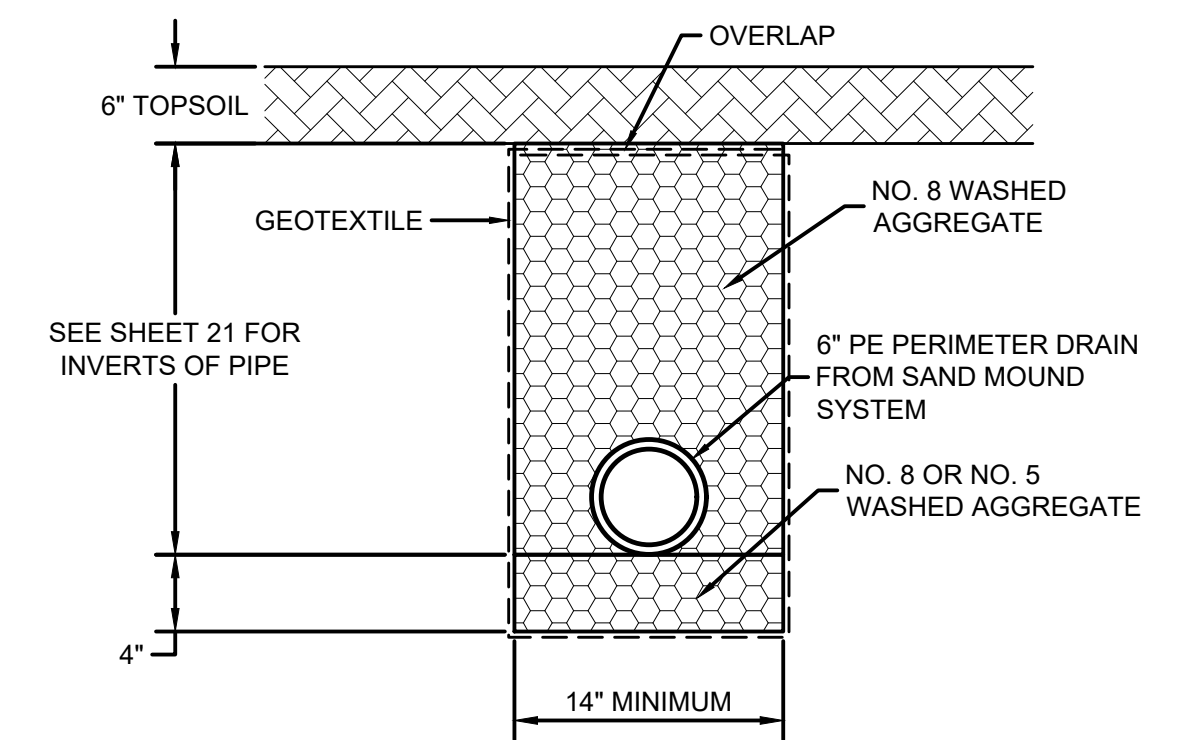
BASAL AREA MONITORING WELL DETAIL
SCALE: NONE



GROUNDWATER MONITORING WELL DETAIL
SCALE: NONE



SURFACE DIVERSION DITCH DETAIL
SCALE: NONE

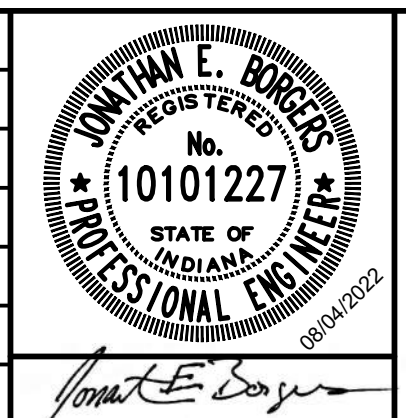


- NOTES:**
1. GEOTEXTILE FILTER SOCK REQUIRED.

PERIMETER DRAIN TRENCH
SCALE: NONE

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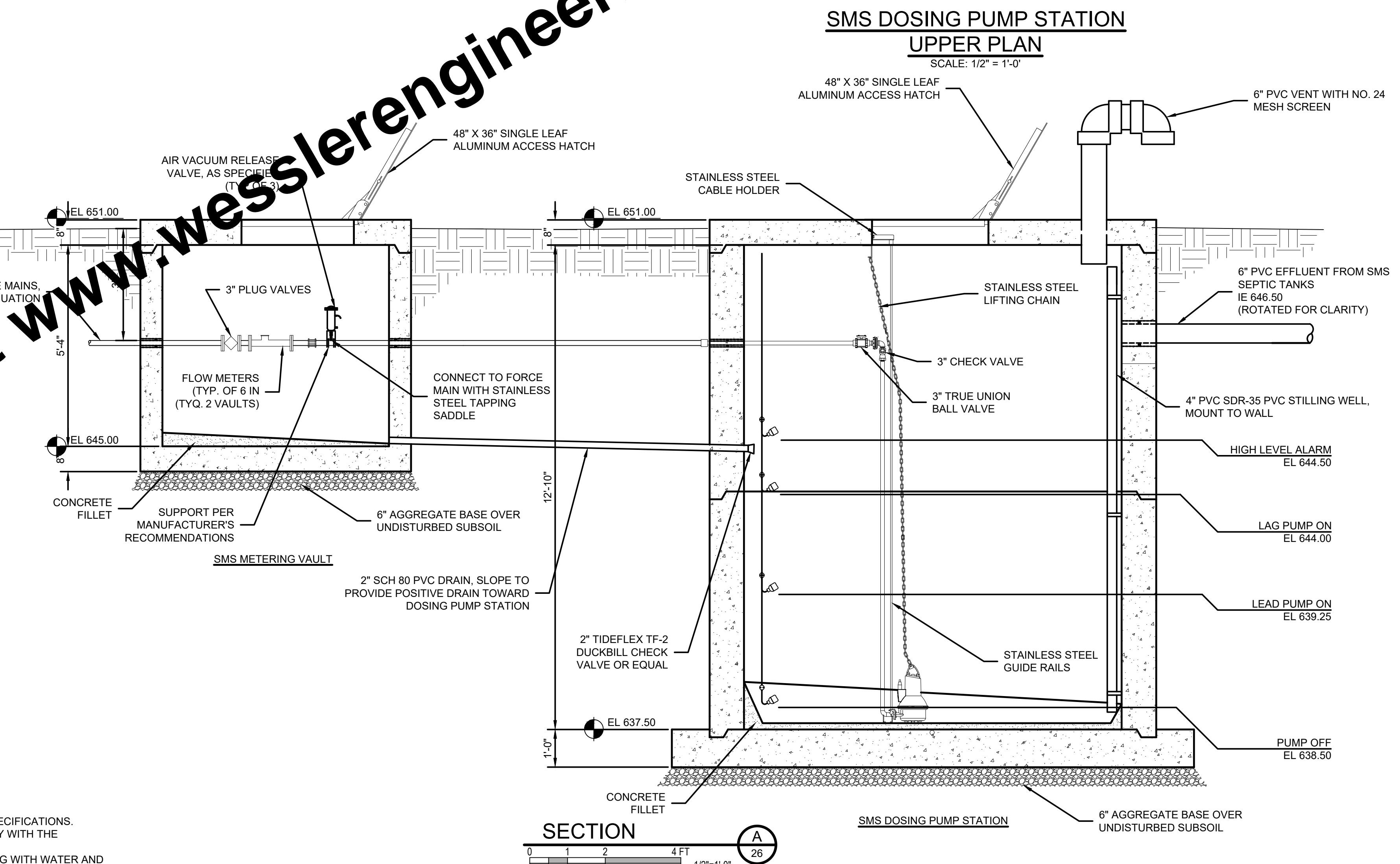
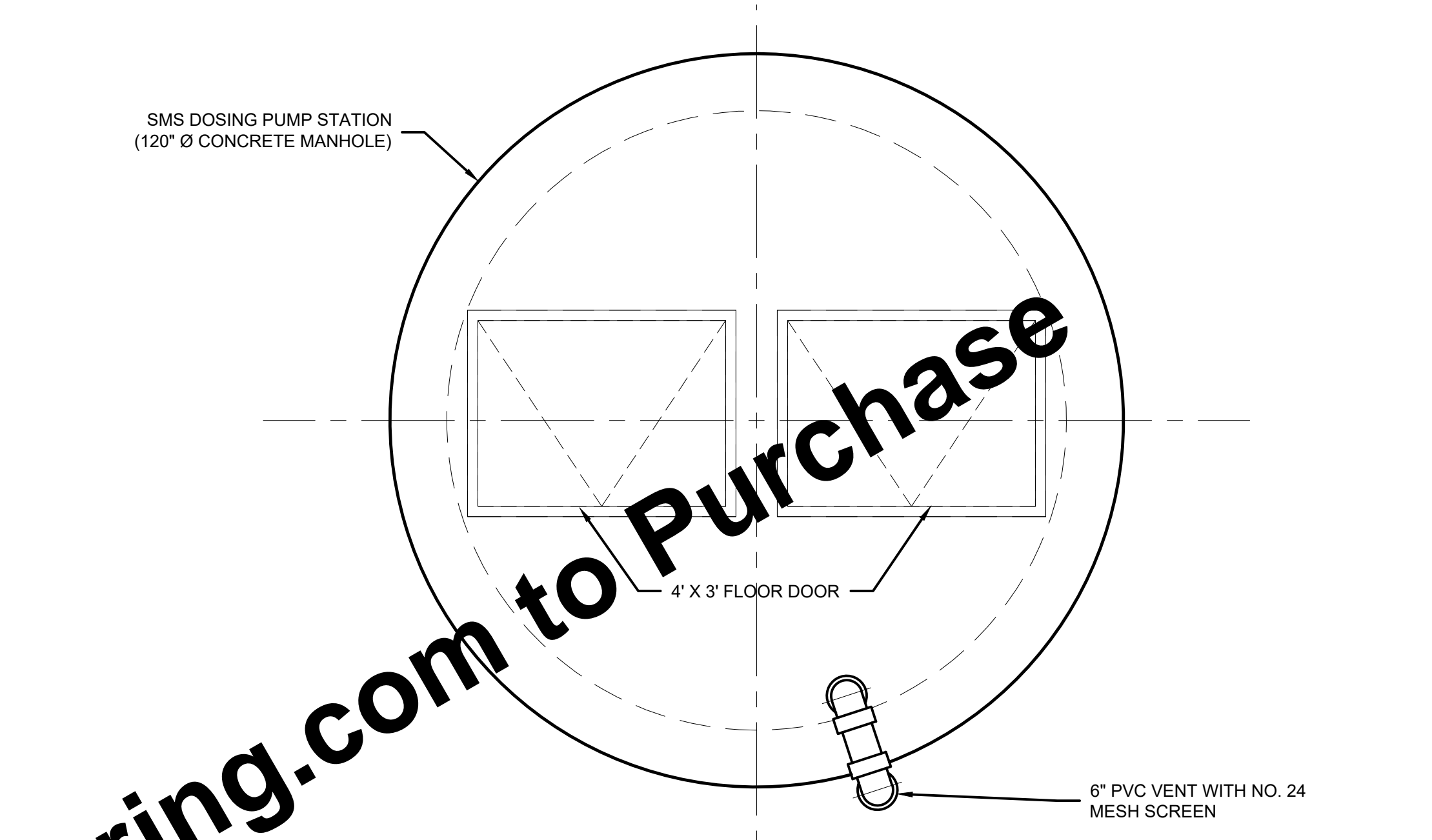
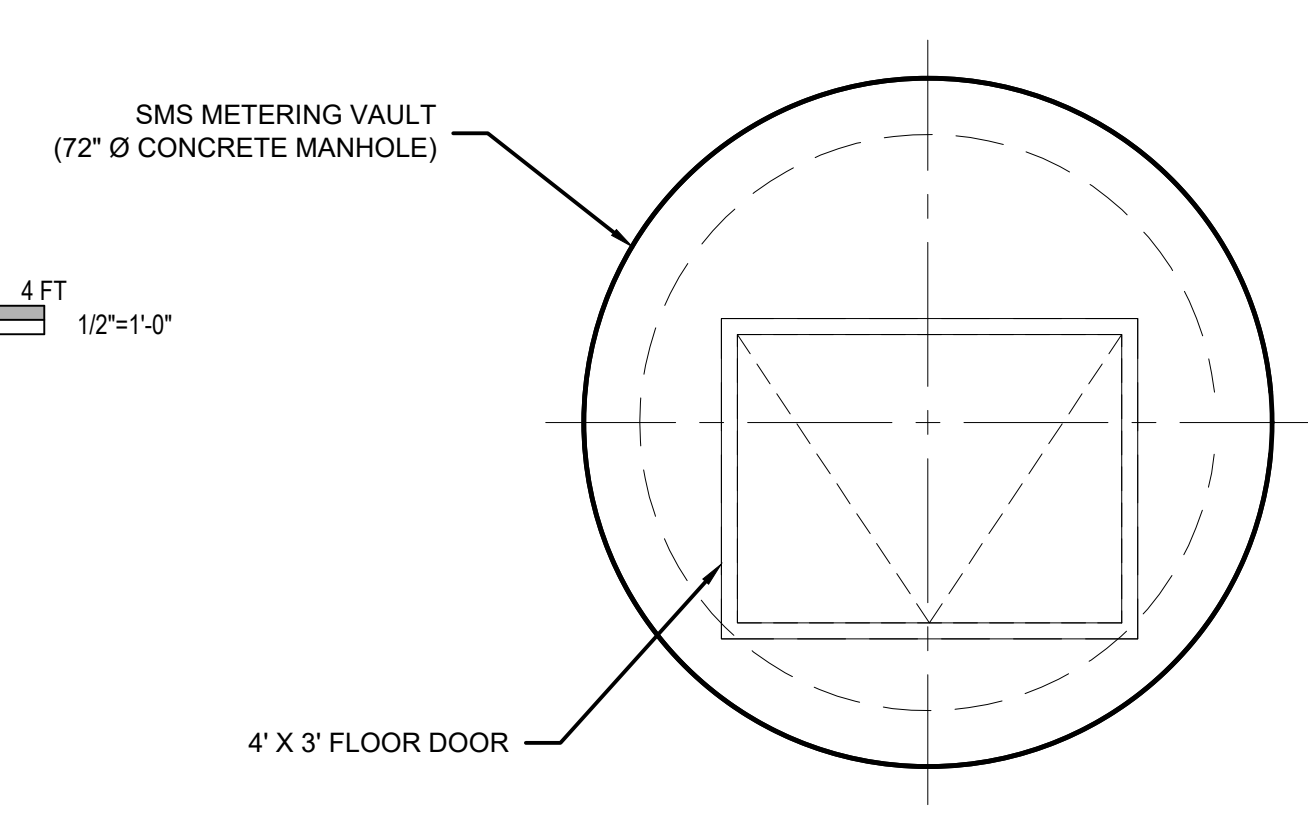
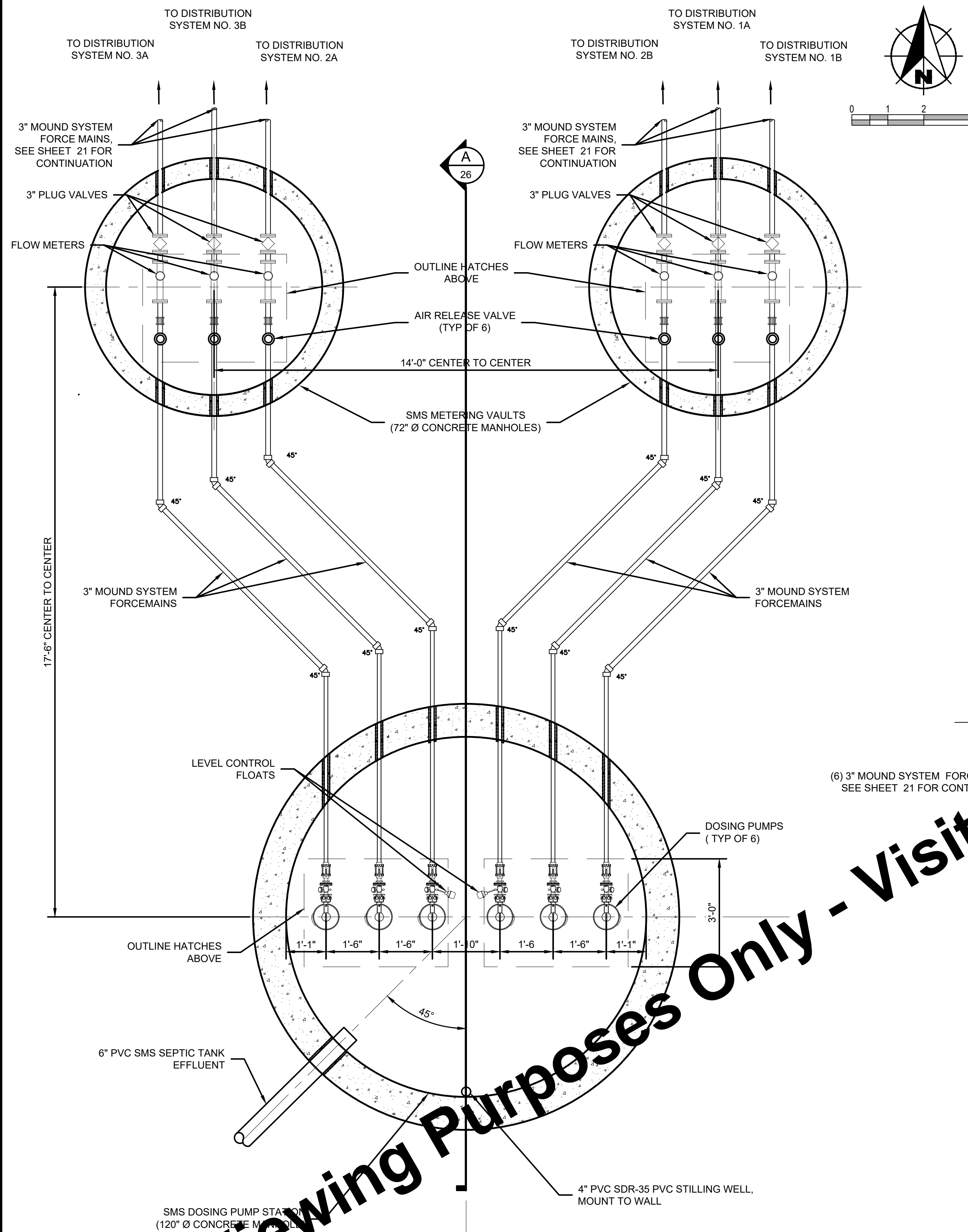


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

SAND MOUND MONITORING DETAILS

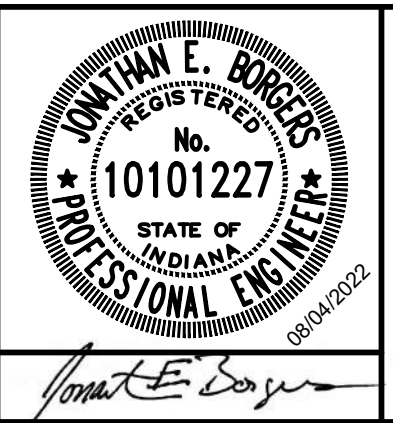
SHEET NO.	25
TOTAL SHEETS	30



- NOTES:**
- SEE SHEET 5 FOR DOSING PUMP STATION SPECIFICATIONS.
 - DOSING TANK CONSTRUCTION SHALL COMPLY WITH THE APPLICABLE SECTIONS OF RULE 410 IAC 6-10.
 - TEST TANK FOR WATER TIGHTNESS BY FILLING WITH WATER AND MEASURING LEVEL DROP AFTER 24 HOURS.

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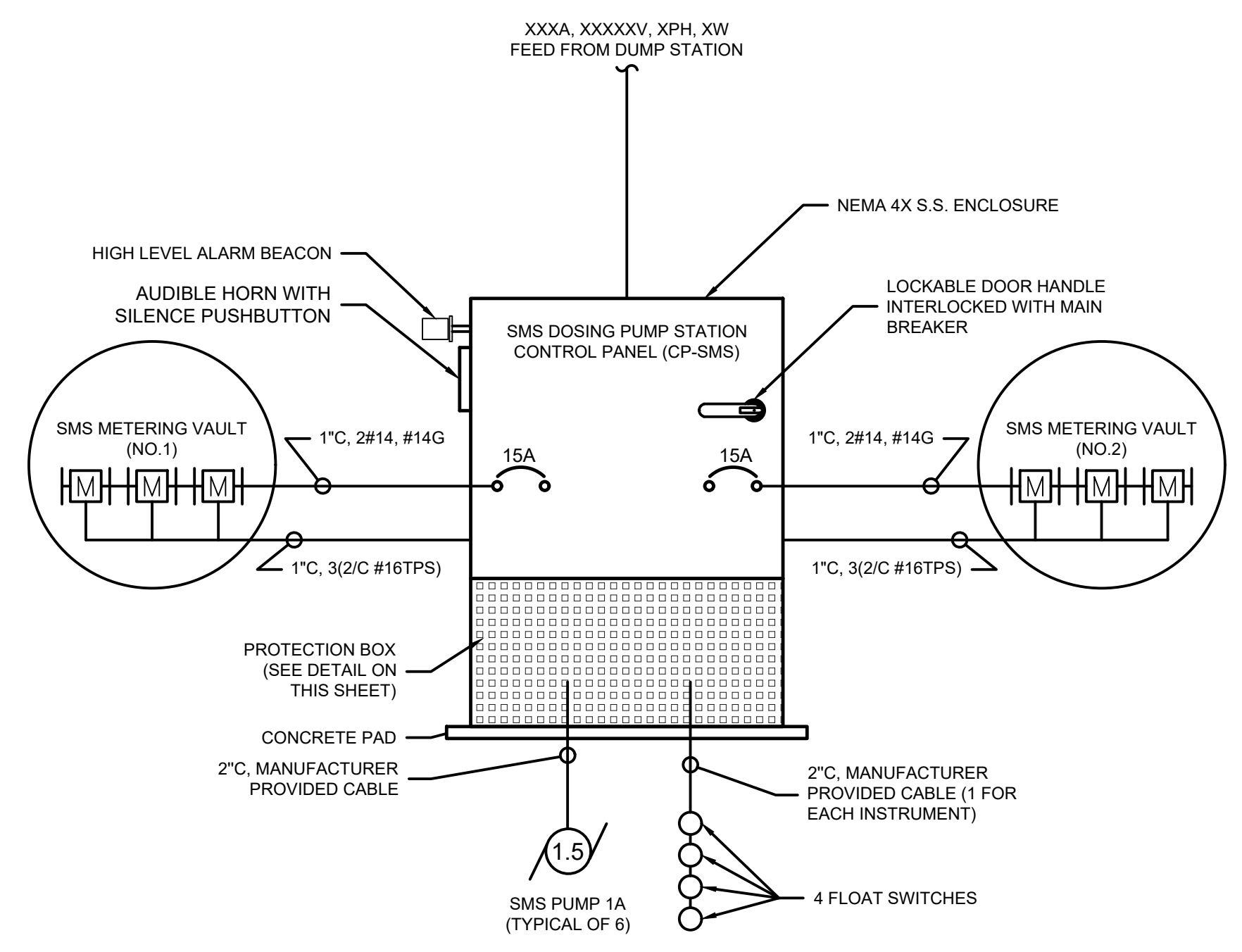
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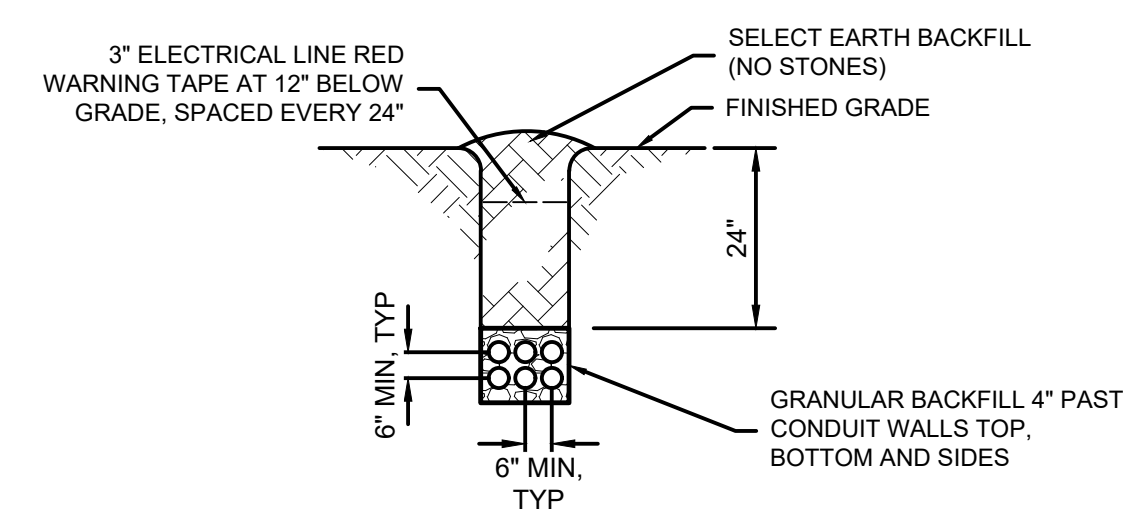
NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM
 NEWTON COUNTY COMMISSIONERS
 NEWTON COUNTY, INDIANA
**SMS METERING VAULT AND SMS DOSING PUMP STATION
 PLAN, SECTION AND DETAILS**

SHEET NO.
26
 TOTAL SHEETS
30

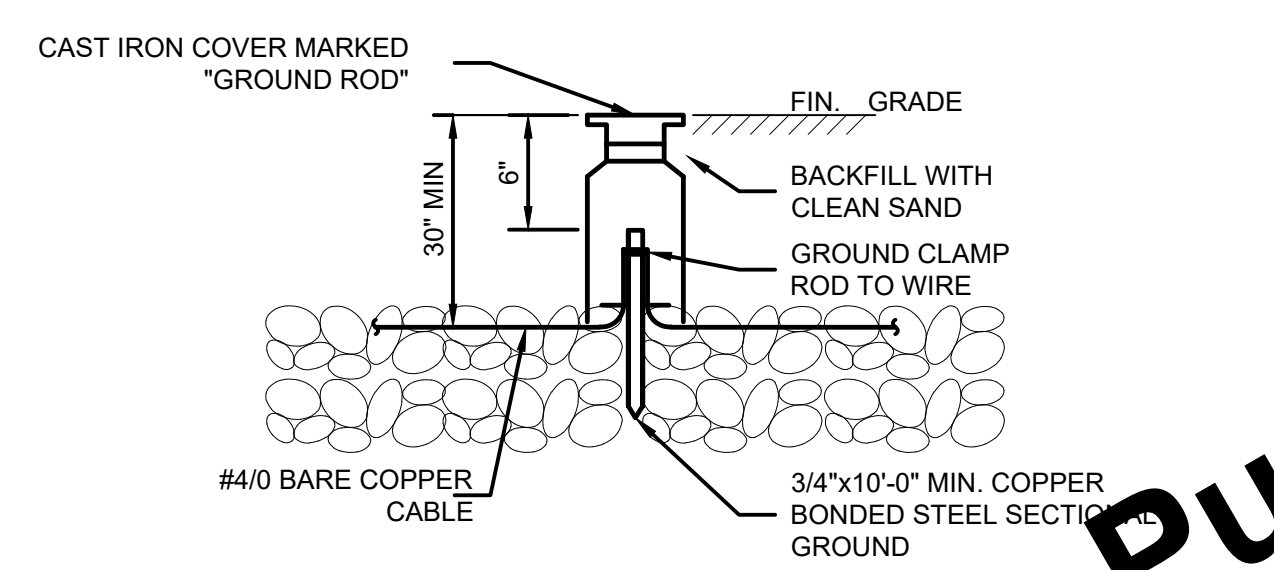
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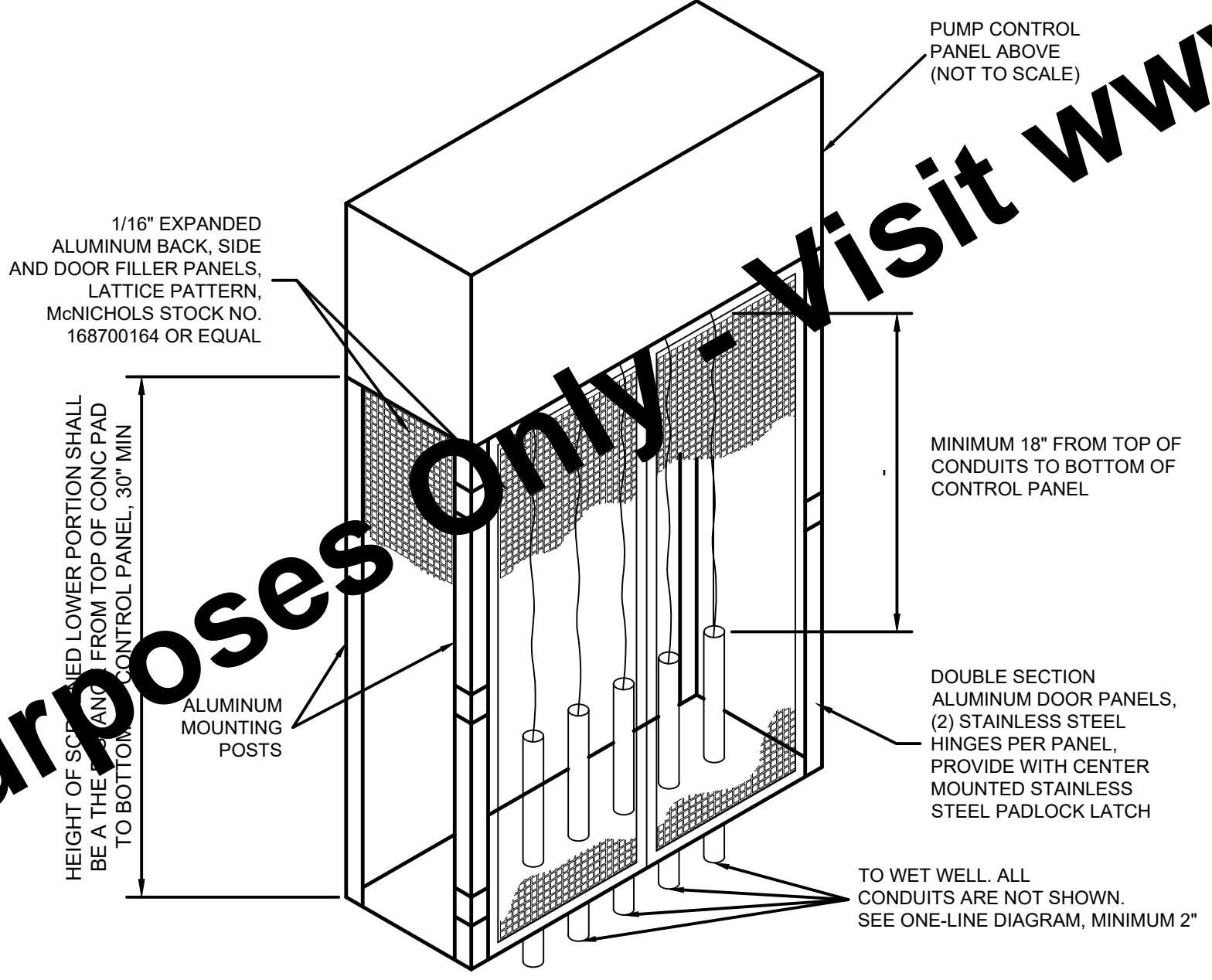
SMS DOSING PUMP STATION CONTROL PANEL (CP-SMS) POWER ONE-LINE DIAGRAM
SCALE: NONE



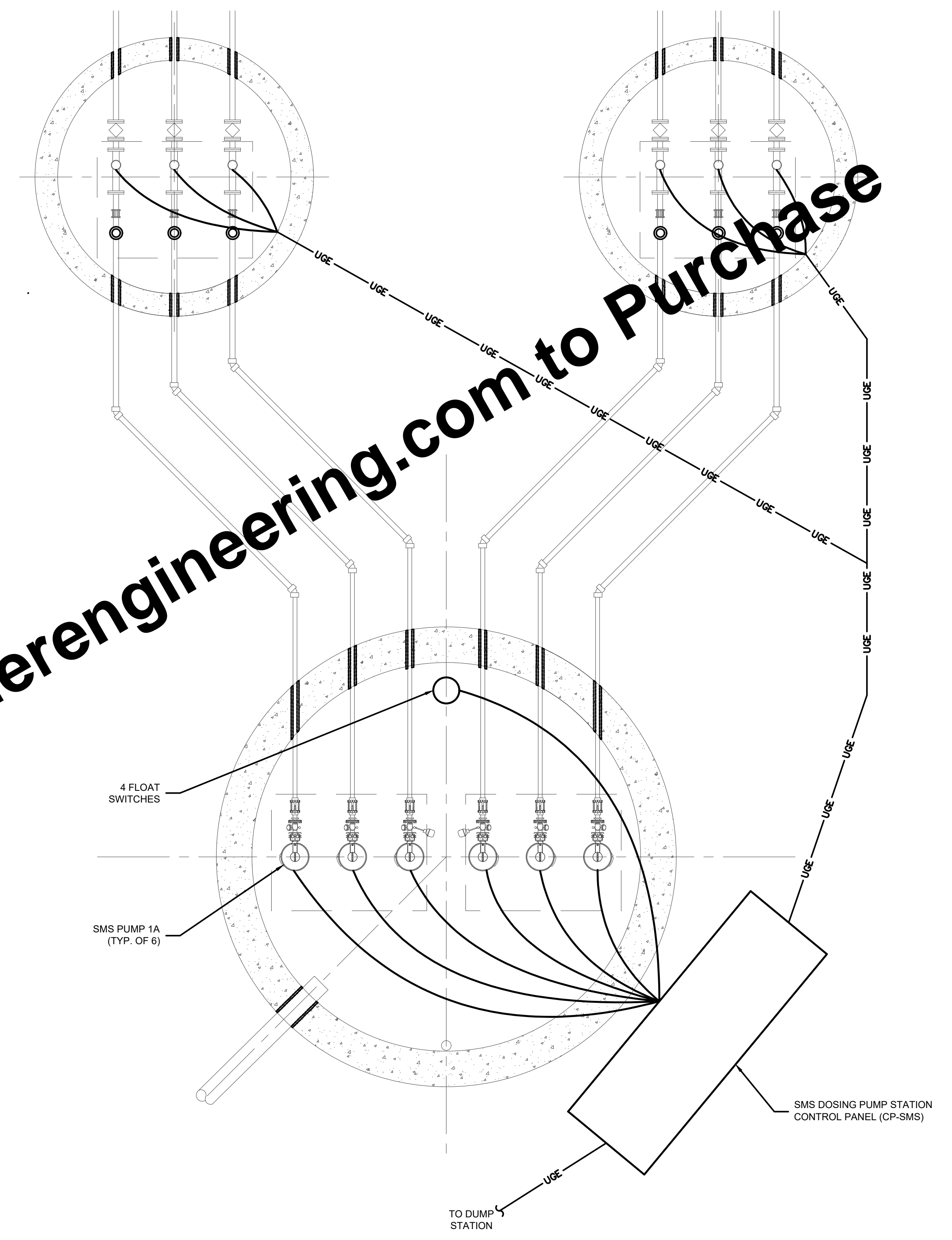
CONDUIT TRENCH
SCALE: NONE



ELECTRICAL INSTALLATION GROUND ASSEMBLY
SCALE: NONE



SUBMERSIBLE CABLE PROTECTION BOX
SCALE: NONE



SMS DOSING PUMP STATION ELECTRICAL PLAN VIEW
SCALE: NONE

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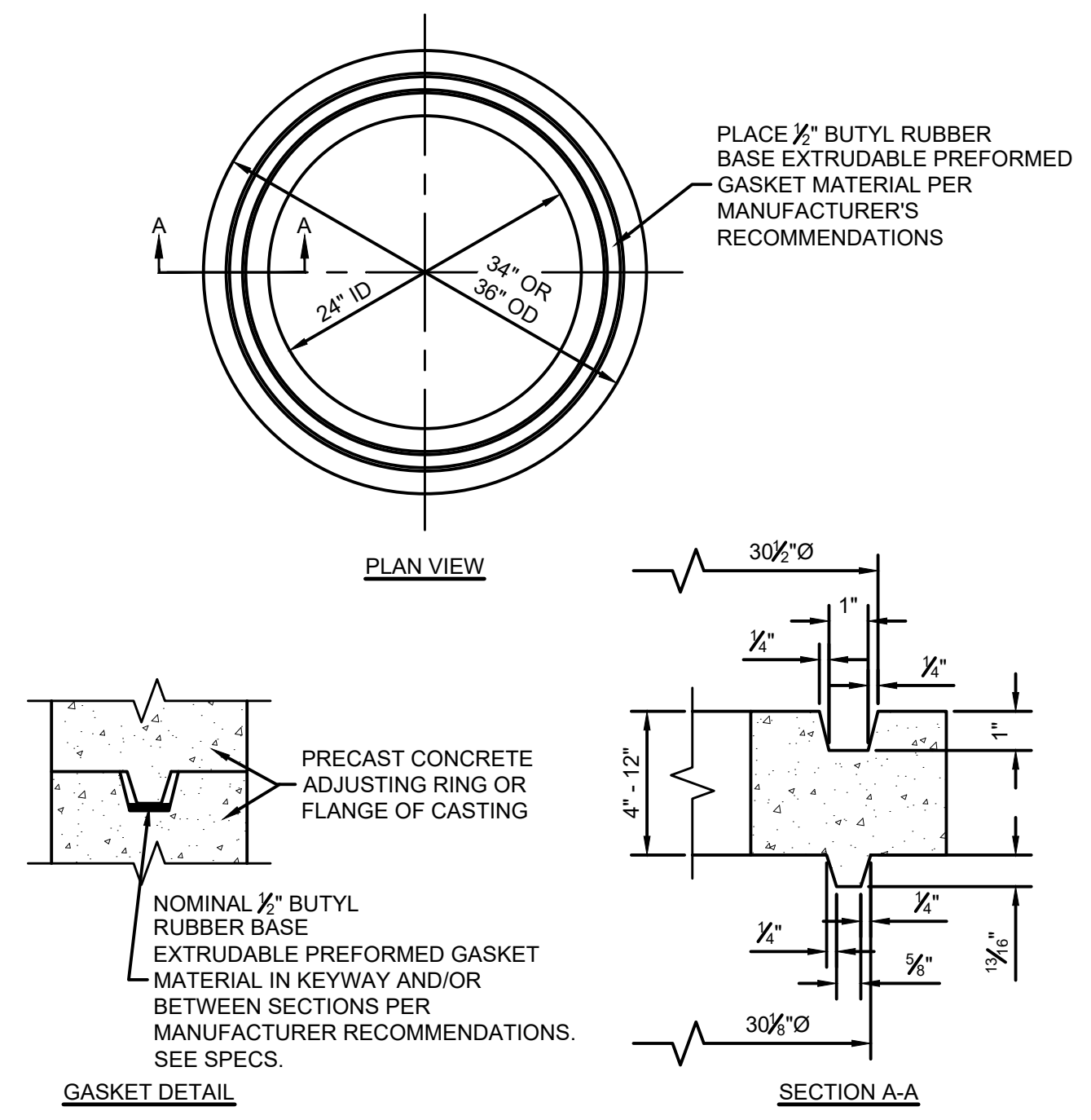
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NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

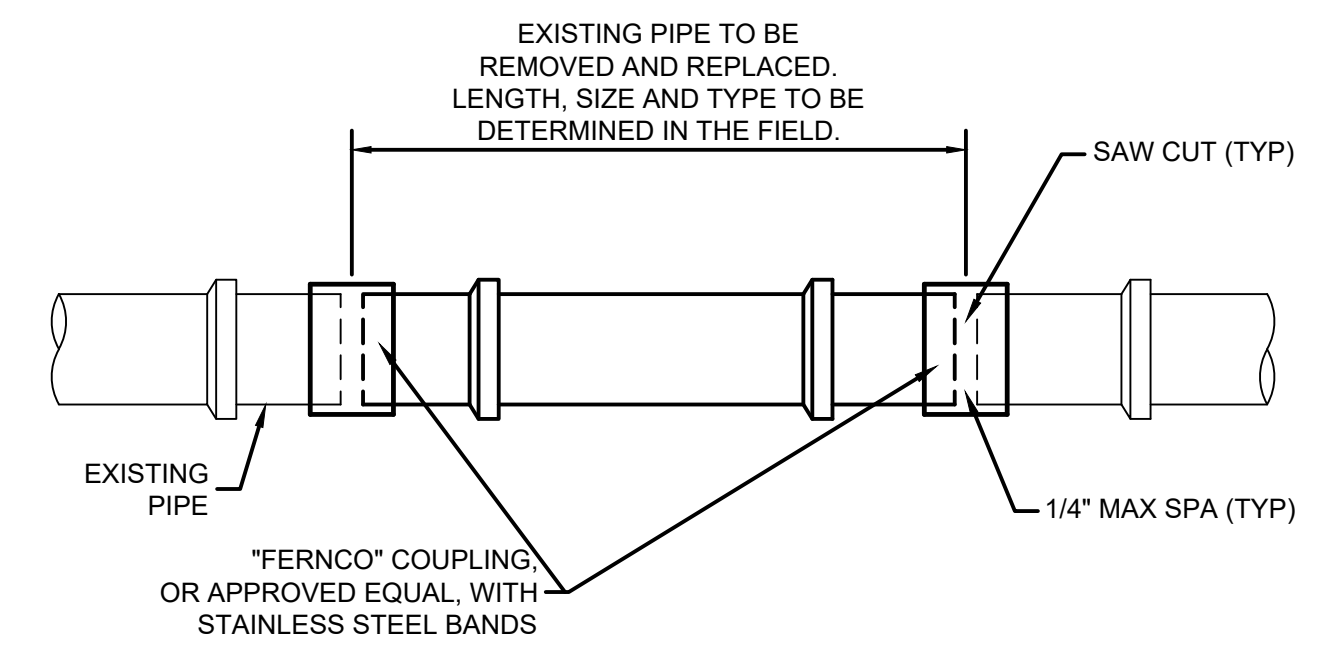
SMS METERING VAULT AND SMS DOSING PUMP STATION ELECTRICAL PLANS

SHEET NO.	27
TOTAL SHEETS	30

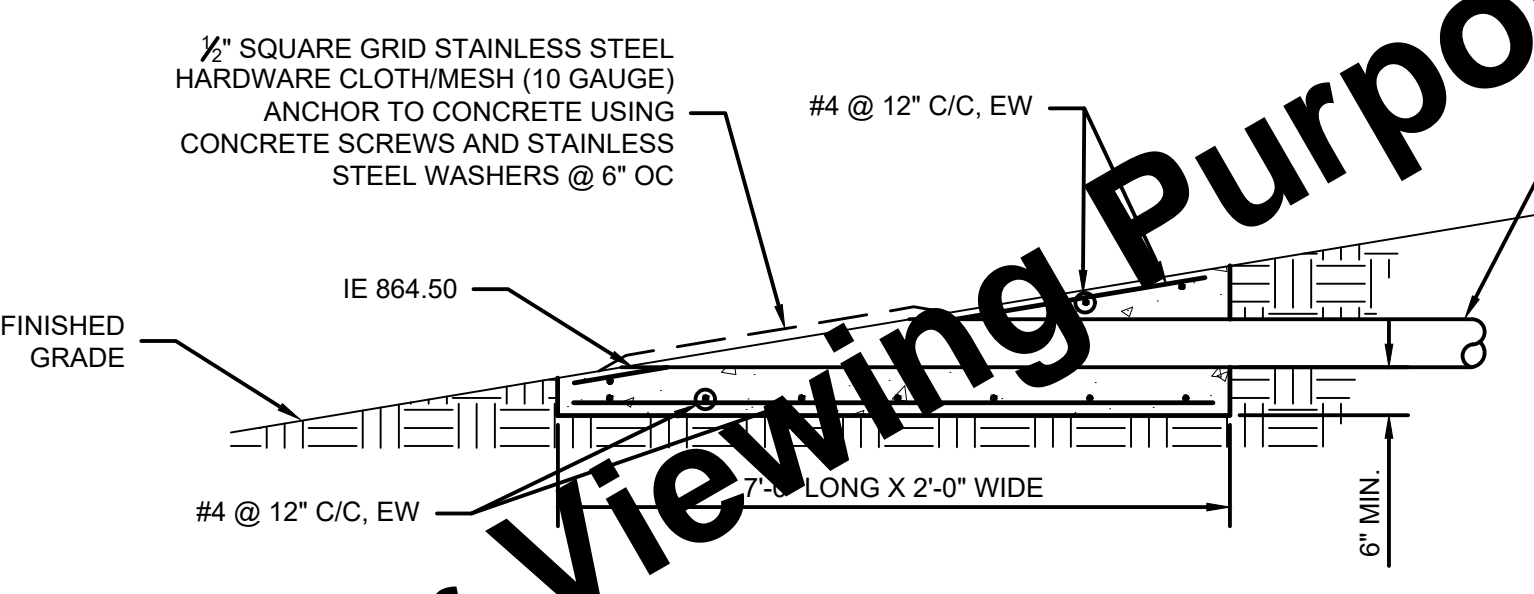


NOTE:
1. PRECAST CONCRETE ADJUSTING RINGS SHALL HAVE KEYWAY/CHANNEL CONSTRUCTION. "SMOOTH" ADJUSTING RINGS SHALL NOT BE PERMITTED.

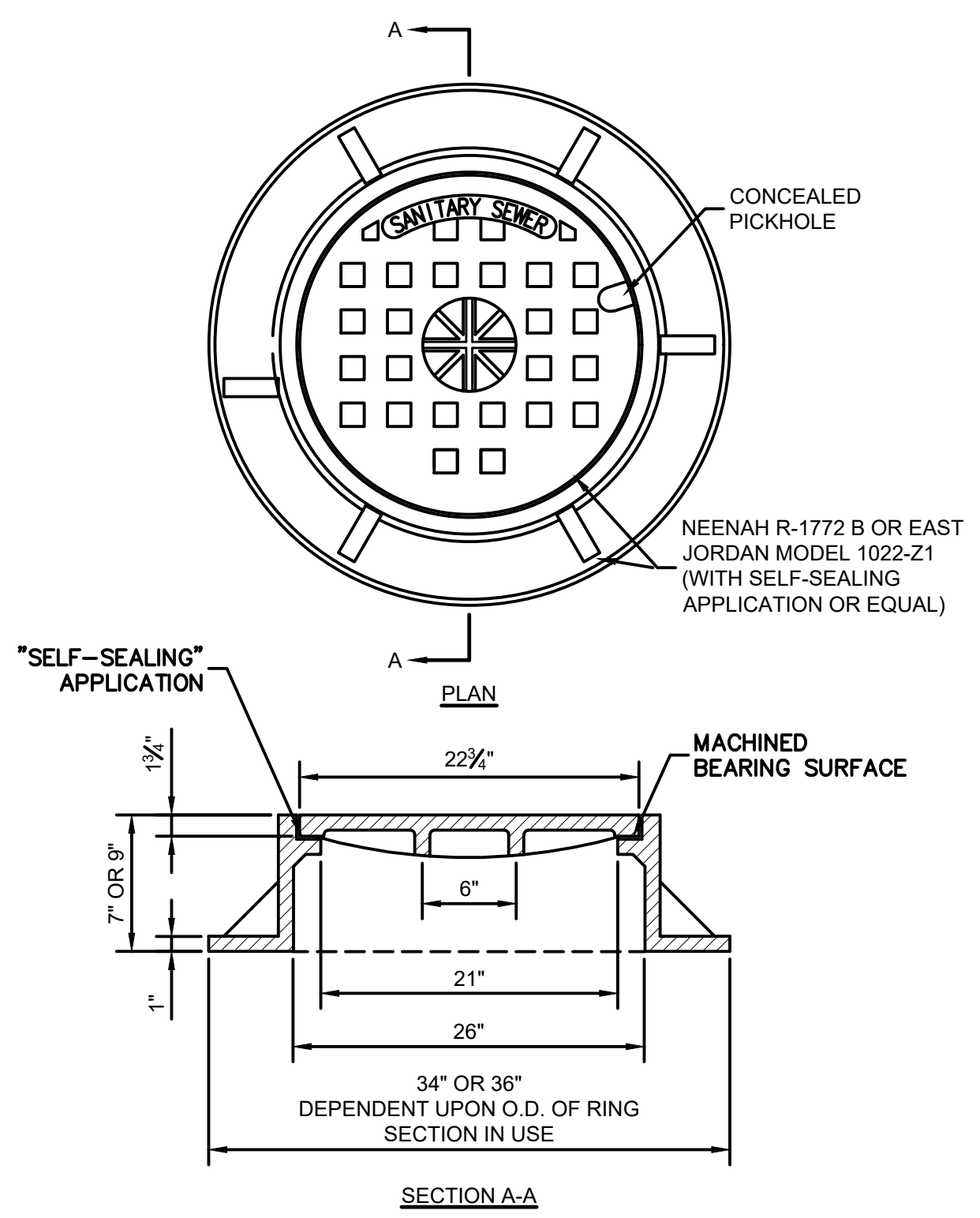
PRECAST CONCRETE ADJUSTING RING
SCALE: NONE



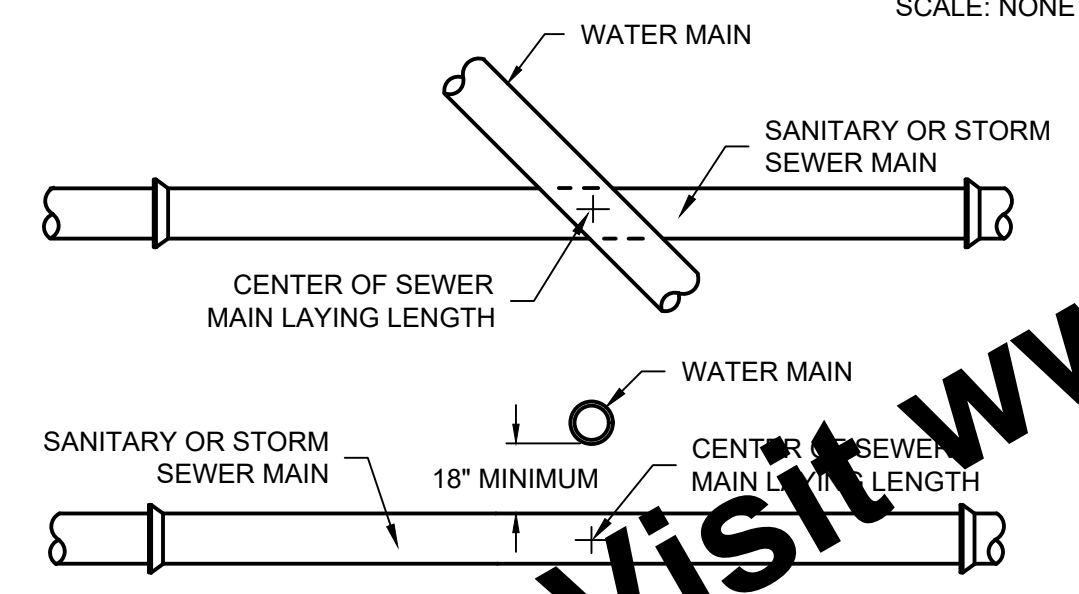
SANITARY SEWER REPAIR
SCALE: NONE



CONCRETE DISCHARGE PAD
SCALE: 1/2"=1'-0"

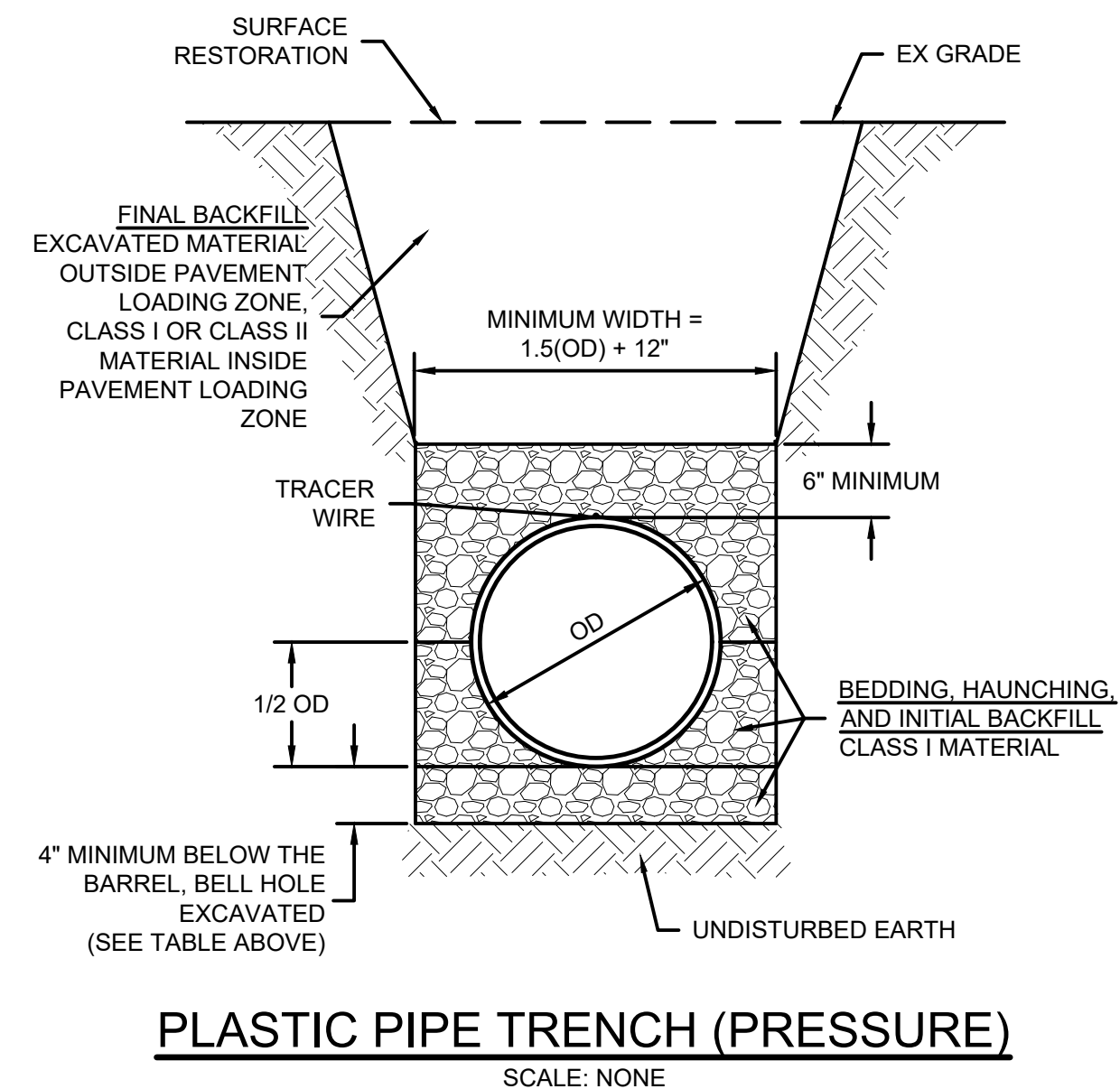


STANDARD SANITARY SEWER MANHOLE FRAME & COVER
SCALE: NONE

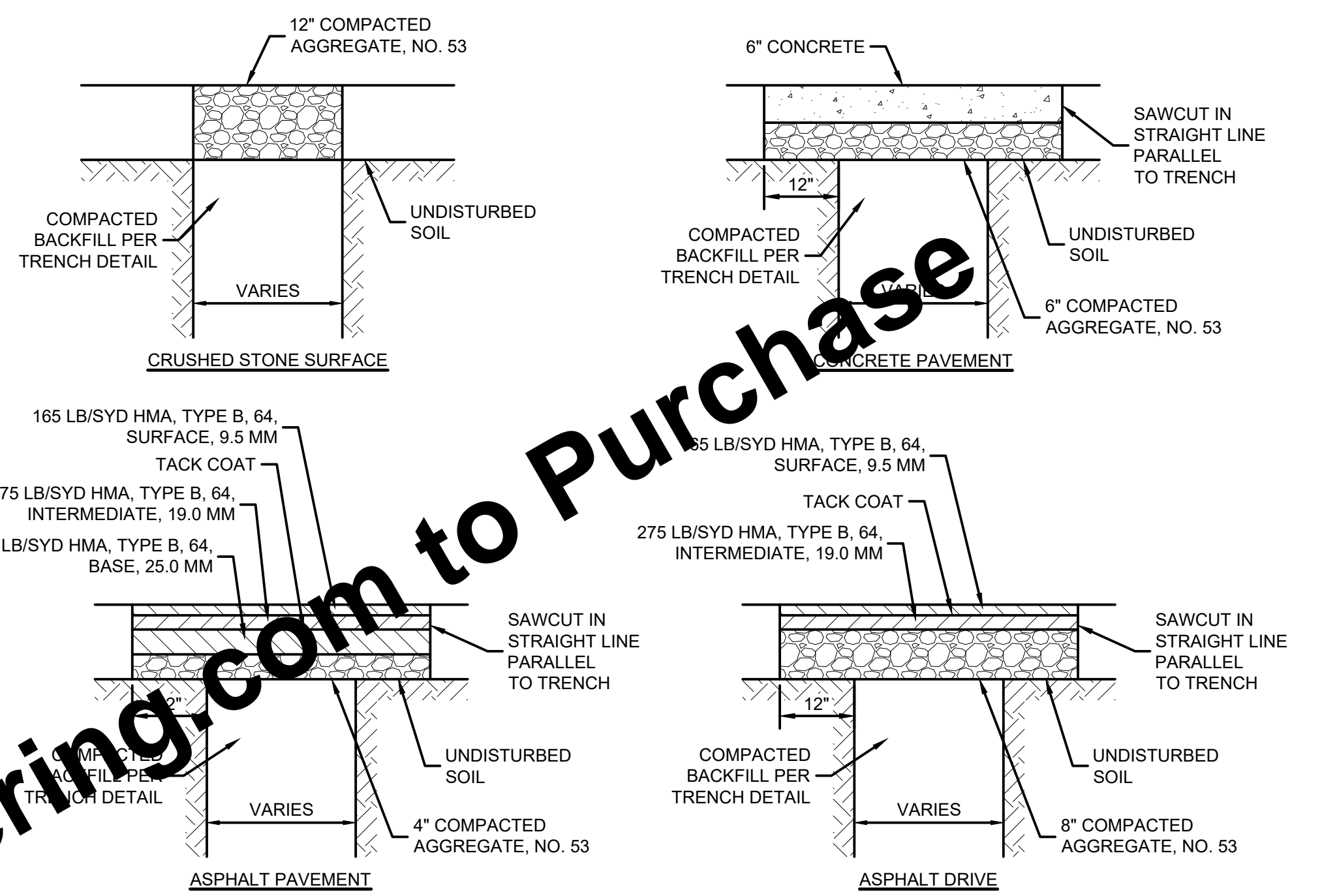


NOTES:
1. WATER MAIN AND SEWER MINIMUM SEPARATION: 18" VERTICAL SEPARATION 10'-0" HORIZONTAL SEPARATION.
2. WHERE WATER MAIN AND SEWER SEPARATION IS LESS THAN 10' VERTICAL OR 10' HORIZONTAL, THE SEWER MUST BE DUCTILE IRON OR SDR-21 PVC.

MINIMUM CROSSOVER AND SEPARATION REQUIREMENTS FOR SEWER AND WATER MAINS
SCALE: NONE

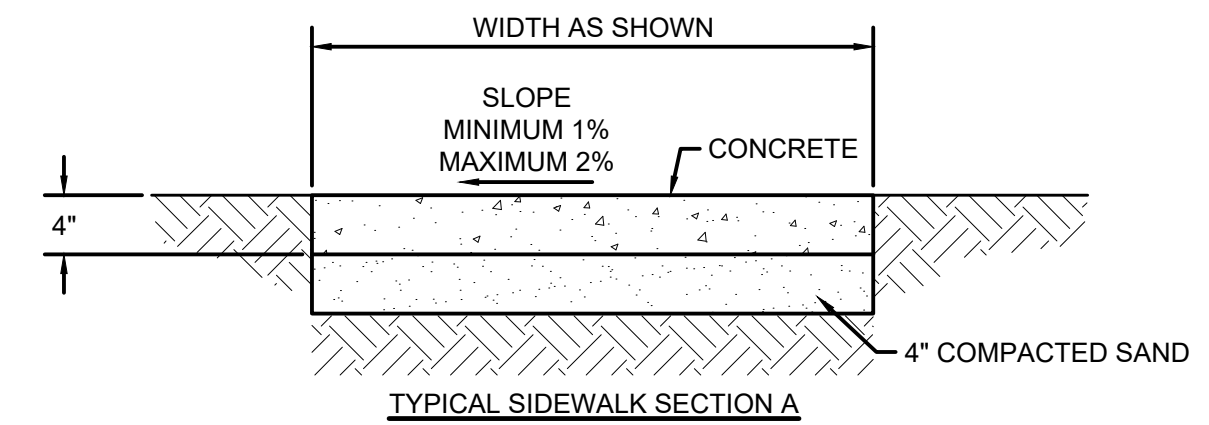


PLASTIC PIPE TRENCH (PRESSURE)
SCALE: NONE

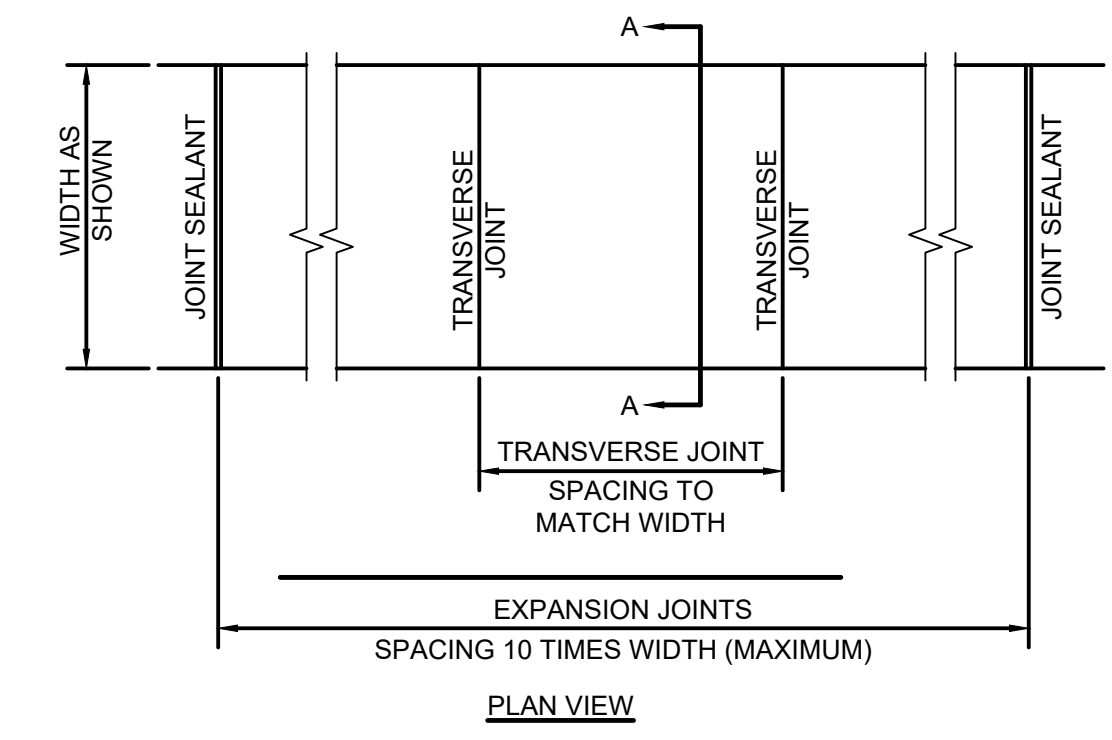


NOTE:
1. TO SPECIFIER: HMA, TYPE B RELATES TO AN EQUIVALENT SINGLE AXLE LOAD (ESAL) OF <3,000,000, AVERAGE ANNUAL DAILY TRAFFIC (AADT) OF <15,000, AND AVERAGE ANNUAL DAILY TRUCK TRAFFIC (AADTT) OF <1,700. IF THE PROJECT EXPERIENCES CONDITIONS OUTSIDE THESE PARAMETERS, A TYPE C OR TYPE D HMA MAY BE REQUIRED.

PAVEMENT REPAIR
SCALE: NONE



TYPICAL SIDEWALK SECTION A

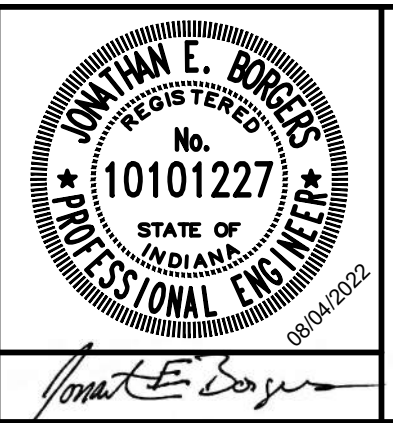


CONCRETE SIDEWALK
SCALE: NONE

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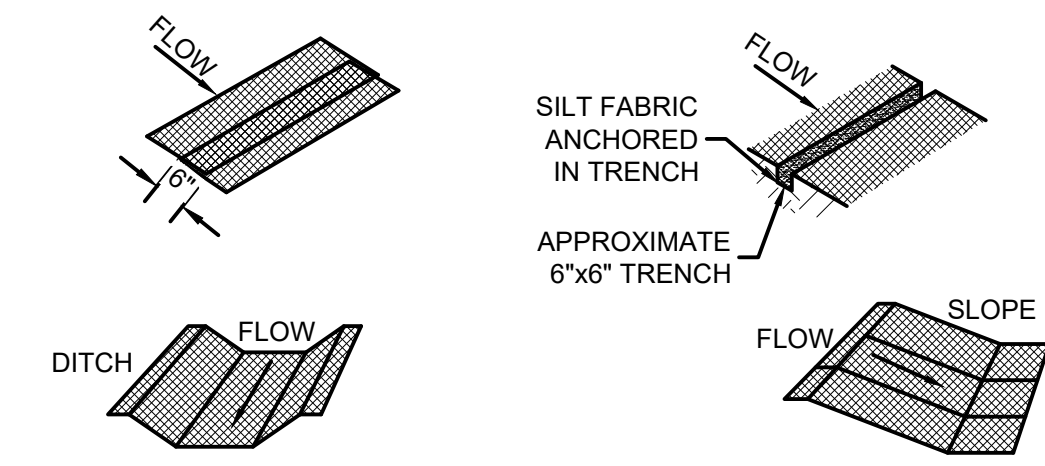
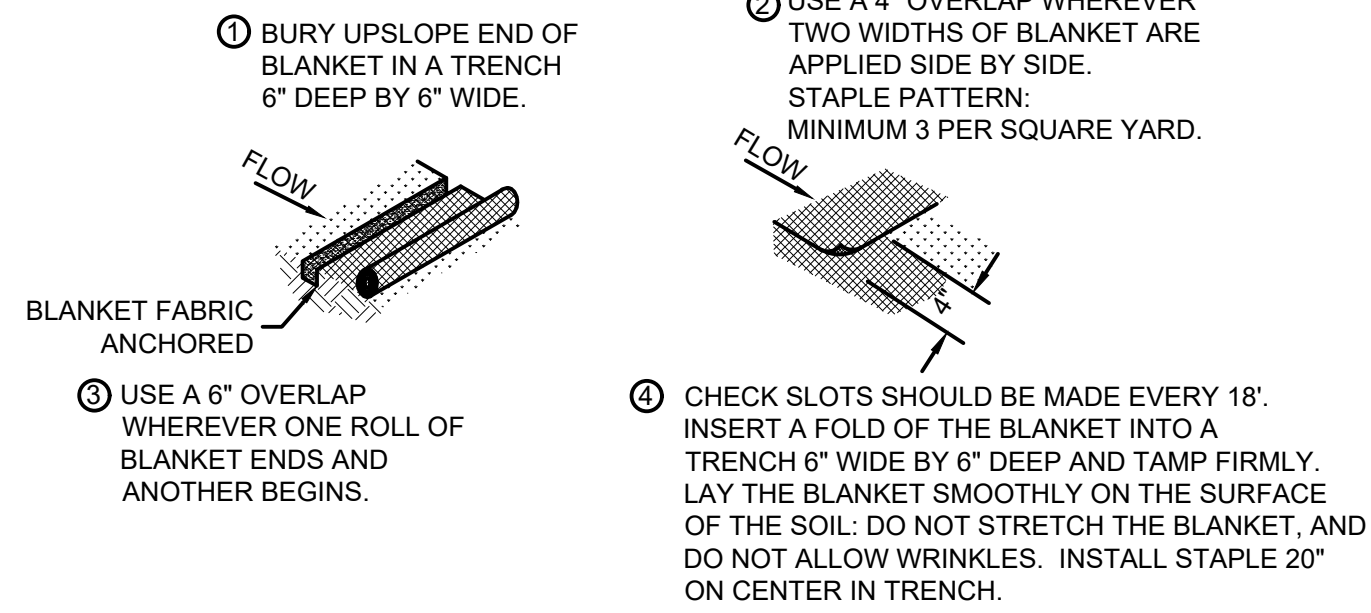


NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM
NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA
MISCELLANEOUS DETAILS

SHEET NO.
28
TOTAL SHEETS
30

EROSION CONTROL SCHEDULE	
CONSTRUCTION ACTIVITY	SCHEDULE CONSIDERATION
PRECONSTRUCTION ACTIVITIES: POST THE FOLLOWING INFORMATION NEAR THE MAIN ENTRANCE OF THE PROJECT SITE OR AT A PUBLICLY ACCESSIBLE LOCATION: NOTICE OF INTENT (NOI) DOCUMENT, COPY OF THE PUBLIC NOTICE, NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT NUMBER, NAME, ADDRESS, AND PHONE NUMBER OF THE LOCAL CONTACT PERSON, AND LOCATION OF A COPY OF THE CONSTRUCTION DRAWINGS AND STORMWATER POLLUTION PREVENTION PLAN (SWPPP).	AUTHORIZATION UNDER THE CSGP IS EFFECTIVE 48-HOURS AFTER SUBMITTAL OF THE NOTICE OF INTENT TO IDEM AND LOCAL AUTHORITY BY THE OWNER.
MAINTAIN DOCUMENTATION ON-SITE PER SPECIFICATION 02101 FOR THE PROJECT MANAGEMENT LOG. THE SWPPP SHOULD BE ON-SITE AND SELF-MONITORING INSPECTION REPORTS MUST BE AVAILABLE WITHIN 48 HOURS OF REQUEST. INFORM OR TRAIN PERSONNEL ASSOCIATED WITH THE PROJECT OF THE TERMS AND CONDITIONS OF THE CSGP AND THE SWPPP REQUIREMENTS.	
REVIEW THE EROSION CONTROL SCHEDULE OF THE DRAWINGS AND REVISE AS NEEDED TO PHASE CONSTRUCTION ACTIVITIES TO MINIMIZE THE FOOTPRINT OF DISTURBED UNSTABLE AREAS. SUBMIT A REVISED EROSION CONTROL SCHEDULE AS REQUIRED FOR TEMPORARY AND PERMANENT EROSION CONTROL WORK AS APPLICABLE.	COMPLETE BEFORE CONSTRUCTION BEGINS.
CONSTRUCTION ACCESS - ENTRANCE TO SITE, CONSTRUCTION ROUTES, AREAS DESIGNATED FOR EQUIPMENT PARKING OR MATERIAL STAGING AND WASTE HANDLING.	THIS IS THE FIRST LAND-DISTURBING ACTIVITY. AS SOON AS CONSTRUCTION BEGINS, STABILIZE ANY BARE AREAS WITH AGGREGATE AND TEMPORARY VEGETATION.
SEDIMENT TRAPS AND BARRIERS - BASIN TRAPS, SILT FENCE AND PERIMETER PROTECTION.	AFTER CONSTRUCTION IS ACCESSED, BASINS SHALL BE INSTALLED, WITH THE ADDITION OF MORE TRAPS AND BARRIERS AS NEEDED DURING GRADING. SET UP PROTECTION FOR NATURAL FEATURES, TREES AND BUFFERS.
RUNOFF CONTROL - DIVERSIONS, PERIMETER PROTECTION, CHECK DAMS, OUTLET PROTECTION.	RUNOFF CONTROL PRACTICES SHALL BE INSTALLED AFTER THE INSTALLATION OF SEDIMENT TRAPS AND BEFORE LAND GRADING. ADDITIONAL RUNOFF CONTROL MEASURES MAY BE INSTALLED DURING GRADING.
RUNOFF CONVEYANCE SYSTEM - STABILIZE STREAM BANKS, STORM DRAINS, CHANNELS, INLET AND OUTLET PROTECTION, SLOPE DRAINS.	AS NECESSARY, STABILIZE STREAM BANKS AND SIDE SLOPES OF RUNOFF SYSTEMS AS SOON AS POSSIBLE. USE EROSION CONTROL BLANKETS OR SLOPE DRAINS TO PREVENT EROSION. INSTALL INLET PROTECTION TO PREVENT SEDIMENTS FROM ENTERING STORM DRAINAGE SYSTEMS. PROTECT STORM OUTLETS TO PREVENT EROSION.
LAND CLEARING AND GRADING - SITE PREPARATION (CUTTING, FILLING, AND GRADING, SEDIMENT TRAPS, BARRIERS, DIVERSIONS, DRAINS, SURFACE ROUGHENING).	IMPLEMENT CLEARING AND GRADING AFTER INSTALLATION OF SEDIMENT TRAPS AND RUNOFF CONTROL MEASURES, AND INSTALL ADDITIONAL CONTROL MEASURES AS GRADING CONTINUES. CLEAR BORROW AND DISPOSAL AREAS AS NEEDED.
SURFACE STABILIZATION - TEMPORARY AND PERMANENT SEEDING, MULCHING, SODDING, RIPRAP, EROSION CONTROL BLANKET.	APPLY TEMPORARY OR PERMANENT STABILIZING MEASURES IMMEDIATELY TO ANY DISTURBED AREAS WHERE WORK HAS BEEN EITHER COMPLETED OR DELAYED.
CONSTRUCTION - STRUCTURES, UTILITIES, PAVING, CONCRETE WASHOUT, AND CONSTRUCTION ENTRANCES.	DURING CONSTRUCTION, INSTALL ANY EROSION AND SEDIMENTATION CONTROL MEASURES THAT ARE NEEDED.
LANDSCAPING AND FINAL STABILIZATION - TOPSOILING, TREES AND SHRUBS, PERMANENT SEEDING, MULCHING, SODDING, RIPRAP.	THIS IS THE LAST CONSTRUCTION PHASE. STABILIZE ALL DISTURBED AREAS, INCLUDING BORROW AND SPOIL AREAS, AND REMOVE ALL TEMPORARY CONTROL MEASURES. FINAL STABILIZATION IS WHEN A UNIFORM DENSITY OF 70% VEGETATION COVER IS MET. PROVIDE NOTIFICATION TO THE OWNER WHEN THE ENTIRE SITE HAS BEEN STABILIZED AND ALL CONSTRUCTION MATERIALS, WASTES, AND EQUIPMENT HAVE BEEN REMOVED.

EROSION CONTROL SCHEDULE
SCALE: NONE



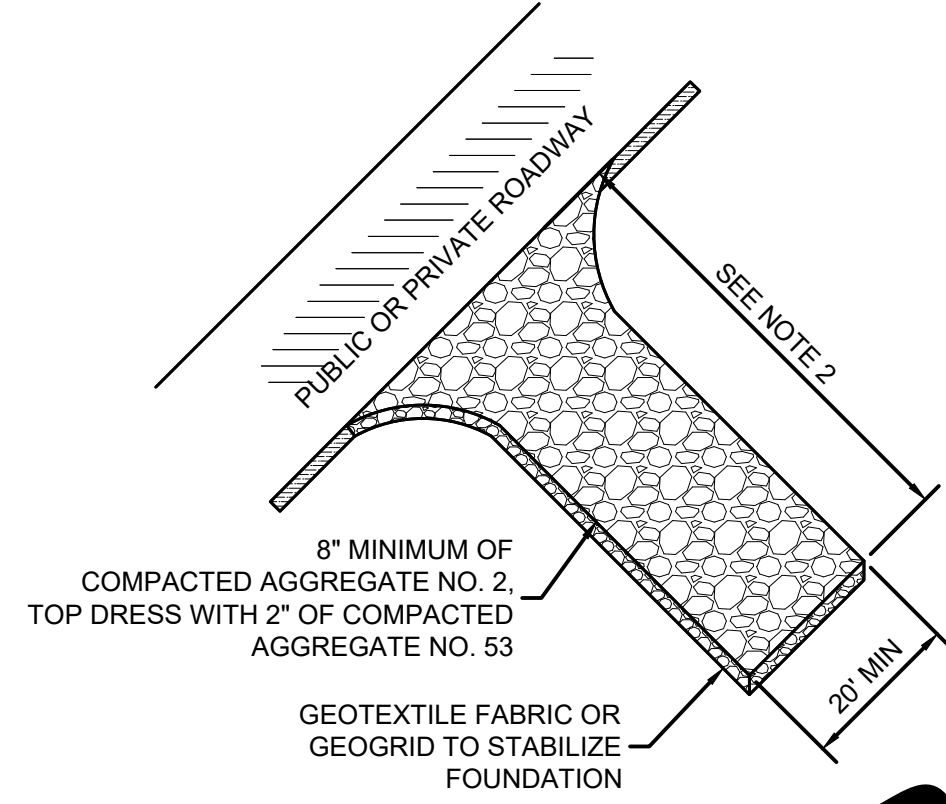
PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW. DO NOT JOIN STRIPS IN THE CENTER OF THE DITCH. USE CHECK SLOTS AS REQUIRED.

PLACE BLANKET PARALLEL TO THE DIRECTION OF FLOW AND ANCHOR SECURELY. BRING BLANKET TO A LEVEL AREA BEFORE TERMINATING THE INSTALLATION.

- PRODUCT:**
1. NORTH AMERICAN GREEN SC150, OR EQUAL.
- NOTES:**
1. PROTECT THE SLOPES WITH AN EROSION CONTROL BLANKET WHERE CONSTRUCTION DISTURBS SLOPES EQUAL OR STEEPER THAN 3:1.
- MAINTENANCE:**
1. INSPECT FOR EROSION AFTER EACH STORM EVENT DURING VEGETATION ESTABLISHMENT, AND AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. IF ANY AREAS SHOW EROSION, PULL BACK THAT PORTION OF THE BLANKET, ADD SOIL, RESEED, RELAY AND STAPLE THE BLANKET.
3. CHECK AREAS PERIODICALLY AFTER VEGETATION ESTABLISHMENT.

EROSION CONTROL BLANKET

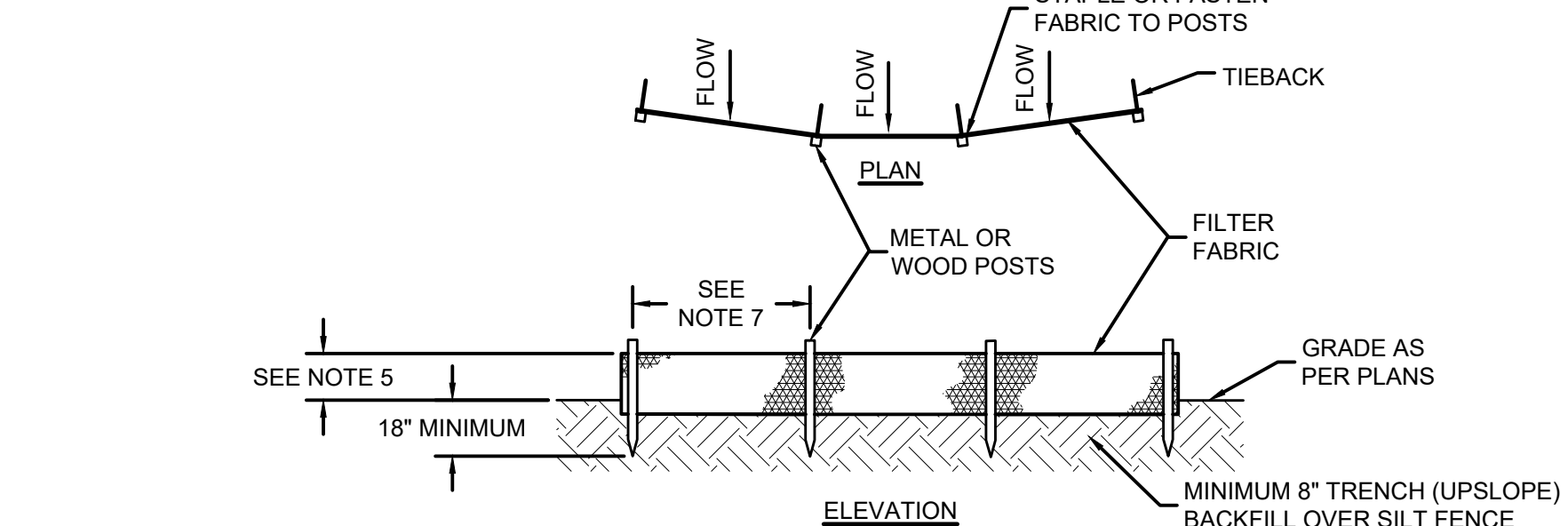
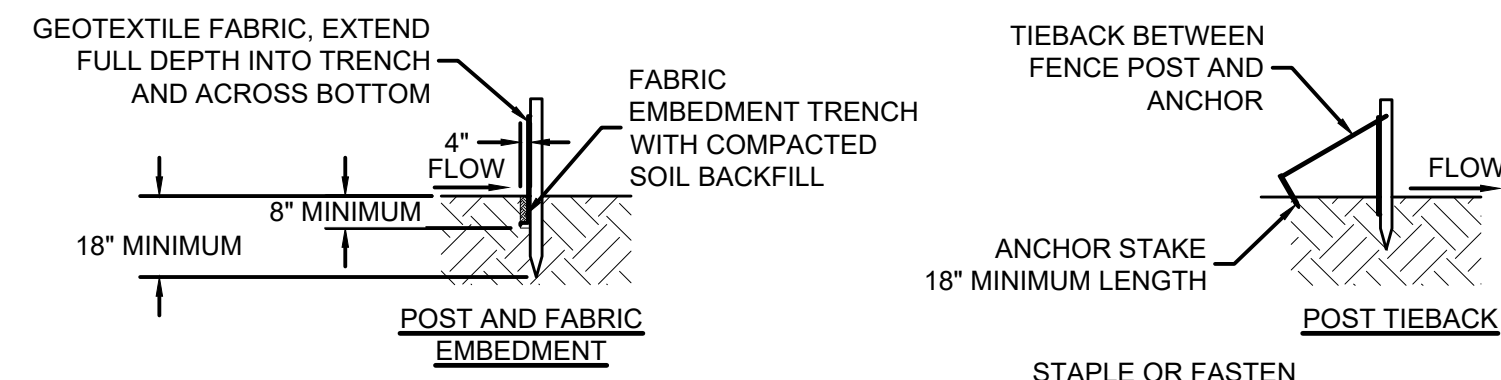
SCALE: NONE



- NOTES:**
1. PLACE CONSTRUCTION ENTRANCE AS SHOWN ON THE PLANS AND ALL TEMPORARY CONSTRUCTION DRIVES THAT ARE INSTALLED.
2. FOR LARGE SITES (2 ACRES OR LARGER) THE MINIMUM LENGTH IS 150'. FOR SMALLER SITES (LESS THAN 2 ACRES) THE MINIMUM LENGTH IS 20'.
3. PROVIDE CULVERT OR OTHER METHODS AS NECESSARY TO MAINTAIN POSITIVE DRAINAGE.
- MAINTENANCE:**
1. INSPECT DAILY AND REPLACE DISPERSED SEDIMENT.
2. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED ONTO ADJACENT ROADWAY.
3. RESHAPE PAD AS NEEDED FOR STORAGE AND RUNOFF CONTROL.
4. AT COMPLETION OF PROJECT COMPLETELY REMOVE AND RESTORE SITE TO ORIGINAL CONDITIONS, OR AS APPLICABLE USE FOR BASE OF NEW PERMANENT DRIVE, MAINTAINING DESIGN ELEVATIONS AND SECTION.

CONSTRUCTION ENTRANCE

SCALE: NONE



- NOTES:**
1. SYNTHETIC FILTER FABRIC SHALL BE A PERVIOUS SHEET OF WOVEN OR NON-WOVEN GEOTEXTILE FABRIC AND SHALL BE CERTIFIED BY THE MANUFACTURER OR SUPPLIER AS CONFORMING TO THE FOLLOWING REQUIREMENTS:
a. TEXTILE STRENGTH AT 20% (MAXIMUM) ELONGATION, PER ASTM D4632.
b. WOVEN EXTRA STRENGTH - 50 LB/LINEAR INCH (MINIMUM), NON-WOVEN EXTRA STRENGTH - 70 LB/INCH (MINIMUM).
c. WOVEN STANDARD STRENGTH - 30 LB/LINEAR INCH (MINIMUM), NON-WOVEN STANDARD STRENGTH - 50 LB/INCH (MINIMUM).
d. APPARENT OPENING SIZE (AOS) (U.S. SIEVE) - NO. 30 PARTICLE SIZE OF 0.6 mm (MAXIMUM), ASTM D4751.
e. PERMITTIVITY - 0.05 S⁻¹ (MAXIMUM), ASTM D4491.
2. POSTS FOR SILT FENCES SHALL BE EITHER 2"x2" SQUARE WOOD OR EQUIVALENT METAL POSTS WITH A MINIMUM LENGTH OF 18". ALL POSTS SHALL HAVE PROJECTIONS FOR FASTENING WIRE TO THEM.
3. ANCHOR STAKES FOR SILT FENCES SHALL BE 1"x2" WOOD (PREFERRED) OR EQUIVALENT METAL WITH A MINIMUM LENGTH OF 18".
4. WIRE FENCE REINFORCEMENT FOR SILT FENCES USING STANDARD STRENGTH FILTER CLOTH SHALL BE A MINIMUM OF 14 GAUGE, AND SHALL HAVE A MAXIMUM MESH SPACING OF 6".
5. THE HEIGHT OF THE BARRIER SHALL BE A MINIMUM OF 18" AND A MAXIMUM OF 30".
6. THE FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER FABRIC SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM OVERLAP, AND SECURELY SEALED.
7. POSTS SHALL BE SPACED A MAXIMUM OF 6' APART AT THE BARRIER LOCATION AND DRIVEN FULLY INTO THE GROUND (MINIMUM OF 18"). WHEN STANDARD STRENGTH FABRIC IS USED WITH THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 8".
8. THE SPACING OF TIEBACKS SHALL EQUAL THE SPACING OF THE POSTS. ADDITIONAL POST DEPTH OR TIEBACKS MAY BE REQUIRED IN UNSTABLE SOILS.
9. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4" WIDE AND A MINIMUM OF 18" DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
10. WHEN STANDARD STRENGTH FILTER FABRIC IS USED WITH A WIRE SUPPORT FENCE IT SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY 1" WIRE STAPLES, TIE WIRE TO JOINTS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2" AND SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE.
11. THE STANDARD STRENGTH FILTER FABRIC, WITHOUT WIRE MESH SUPPORT FENCE, SHALL BE STAPLED OR WIRED TO THE FENCE, AND A MINIMUM 8" OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36" ABOVE THE ORIGINAL GROUND SURFACE. DO NOT STAPLE FILTER FABRIC TO TREES.
12. WHEN EXTRA STRENGTH FILTER FABRIC IS USED WITH WIRE MESH SUPPORT FENCE AND POST SPACING IS LESS THAN THE MAXIMUM SPECIFIED SPACING OF 6", THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED.
13. BACKFILL THE TRENCH AND COMPACT THE SOIL OVER THE FILTER FABRIC.
14. REMOVE SILT FENCES WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE, BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
15. SILT FENCE SHALL NOT BE USED AS A DIVERSION AND SHALL NOT BE INSTALLED ACROSS A STREAM, CHANNEL, DITCH, SWALE, ETC.
- MAINTENANCE:**
1. INSPECT AFTER EACH RAINFALL AND DAILY DURING PROLONGED RAINFALL. INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
2. REPLACE WEAR FABRIC IMMEDIATELY IF IT DECOMPOSES OR IS INEFFECTIVE.
3. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH STORM EVENT. THEY MUST BE REMOVED WHEN DEPOSITS REACH APPROXIMATELY HALF THE HEIGHT OF THE BARRIER.
4. SPREAD ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED AND DRESS TO CONFORM WITH THE FINISHED GRADING.

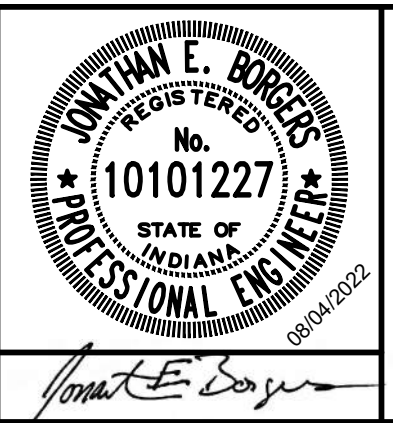
SILT FENCE

SCALE: NONE

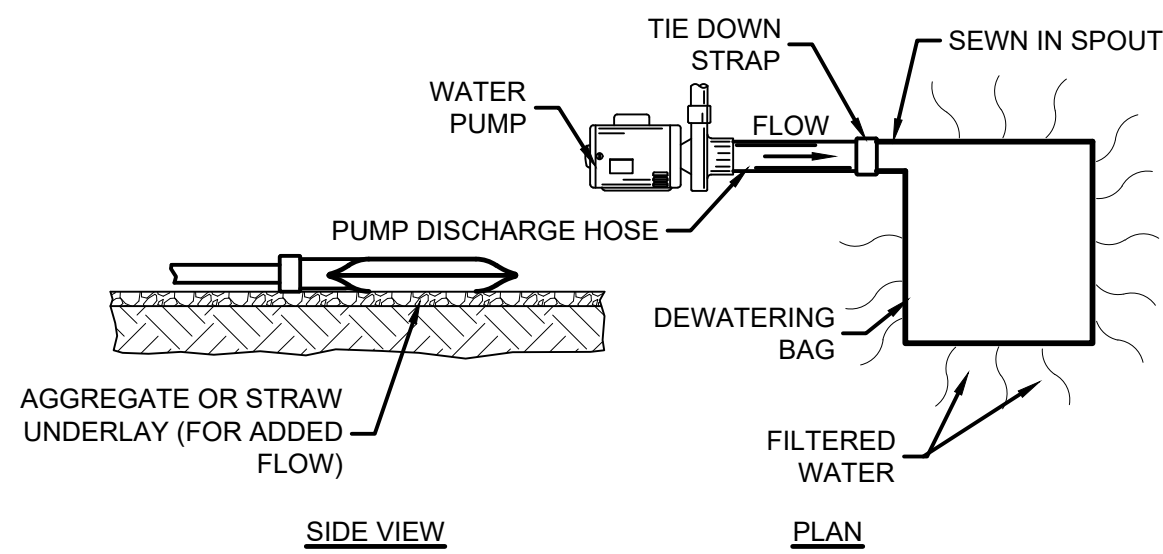
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SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING	CHECKED BY	JEB				
	APPROVED BY	JEB				
	ISSUE DATE	AUGUST 2022				
	PROJECT NUMBER	247321-04-001				



NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM		SHEET NO.
NEWTON COUNTY COMMISSIONERS NEWTON COUNTY, INDIANA		29
EROSION CONTROL DETAILS		TOTAL SHEETS
		30



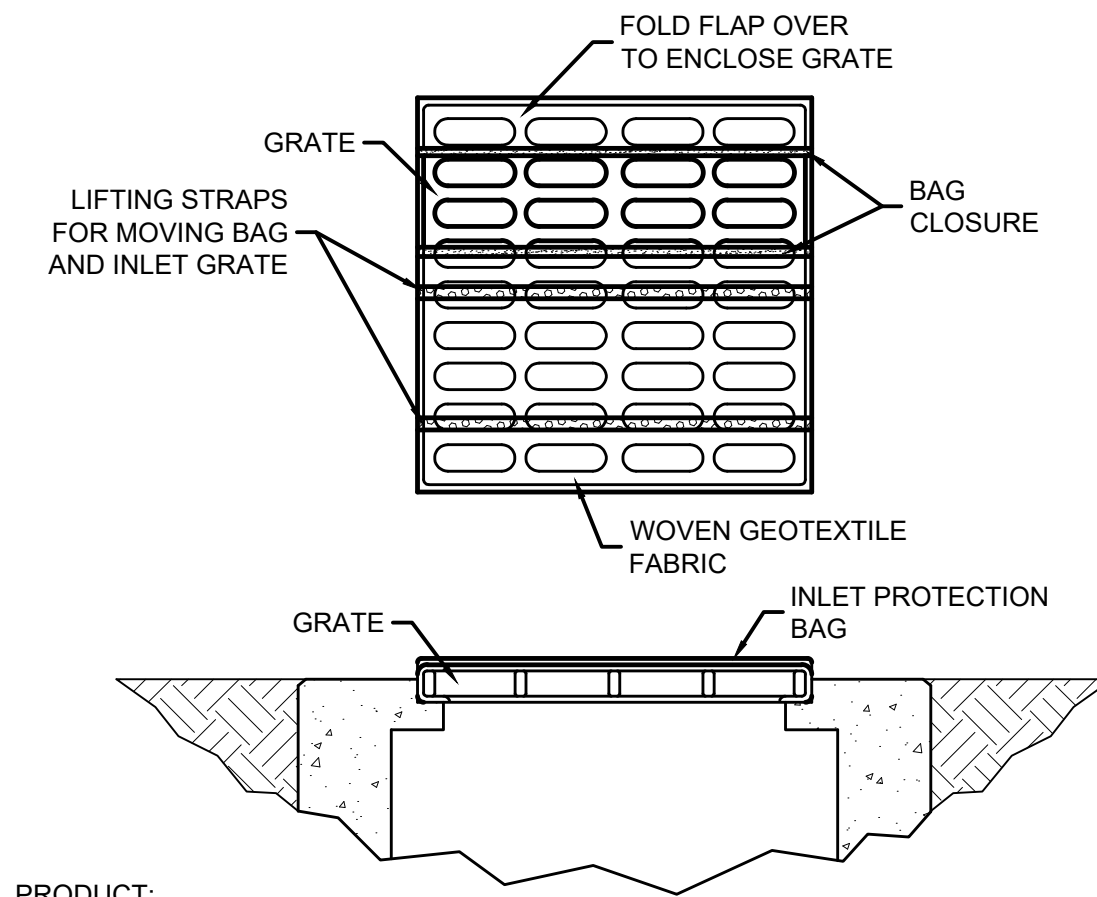
MECHANICAL PROPERTIES	TEST METHOD	UNITS	INDUSTRY STANDARD
GRAB TENSILE STRENGTH	ASTM D4632	kN (LB)	0.9 (205) X 0.9 (205)
GRAB TENSILE ELONGATION	ASTM D4632	%	50 X 50
PUNCTURE STRENGTH	ASTM D4833	kN (LB)	0.58 (130)
MULLEN BURST STRENGTH	ASTM D3786	kPa (PSI)	2618 (380)
TRAPEZOID TEAR STRENGTH	ASTM D4533	kN (LB)	0.36 (80) X 0.36 (80)
UV RESISTANCE	ASTM D4355	%	70
APPARENT OPENING SIZE	ASTM D4751	Mm (US STD SIEVE)	0.180 (80)
FLOW RATE	ASTM D4491	1/MIN/M ² (GAL/MIN/FT ²)	3866 (95)
PERMITTIVITY	ASTM D4491	S ⁻¹	1.2

MAINTENANCE:

- DURING THE ACTIVE DEWATERING PROCESS, INSPECTION OF THE PUMPING BAG SHOULD BE REVIEWED FREQUENTLY. SPECIAL ATTENTION SHOULD BE PAID TO THE BUFFER AREA FOR ANY SIGN OF EROSION AND CONCENTRATION OF FLOW. OBSERVE WHERE POSSIBLE THE VISUAL QUALITY OF THE EFFLUENT AND DETERMINE IF ADDITIONAL TREATMENT CAN BE PROVIDED.
- DISPOSE OF ACCUMULATED SEDIMENT REMOVED DURING PUMPING OPERATIONS IN CONFORMANCE WITH THE SPECIFICATIONS.
- REPLACE THE BAG OR DISPOSE OF SILT WHEN HALF FULL OF SEDIMENT OR WHEN SEDIMENT HAS REDUCED THE FLOW RATE TO AN IMPRACTICAL RATE.

SOURCE:
KRISTAR
DANDY DEWATERING BAG
SEDCATCH

PUMPING BAG
SCALE: NONE



PRODUCT:

- DANDY BAG, OR APPROVED EQUAL.

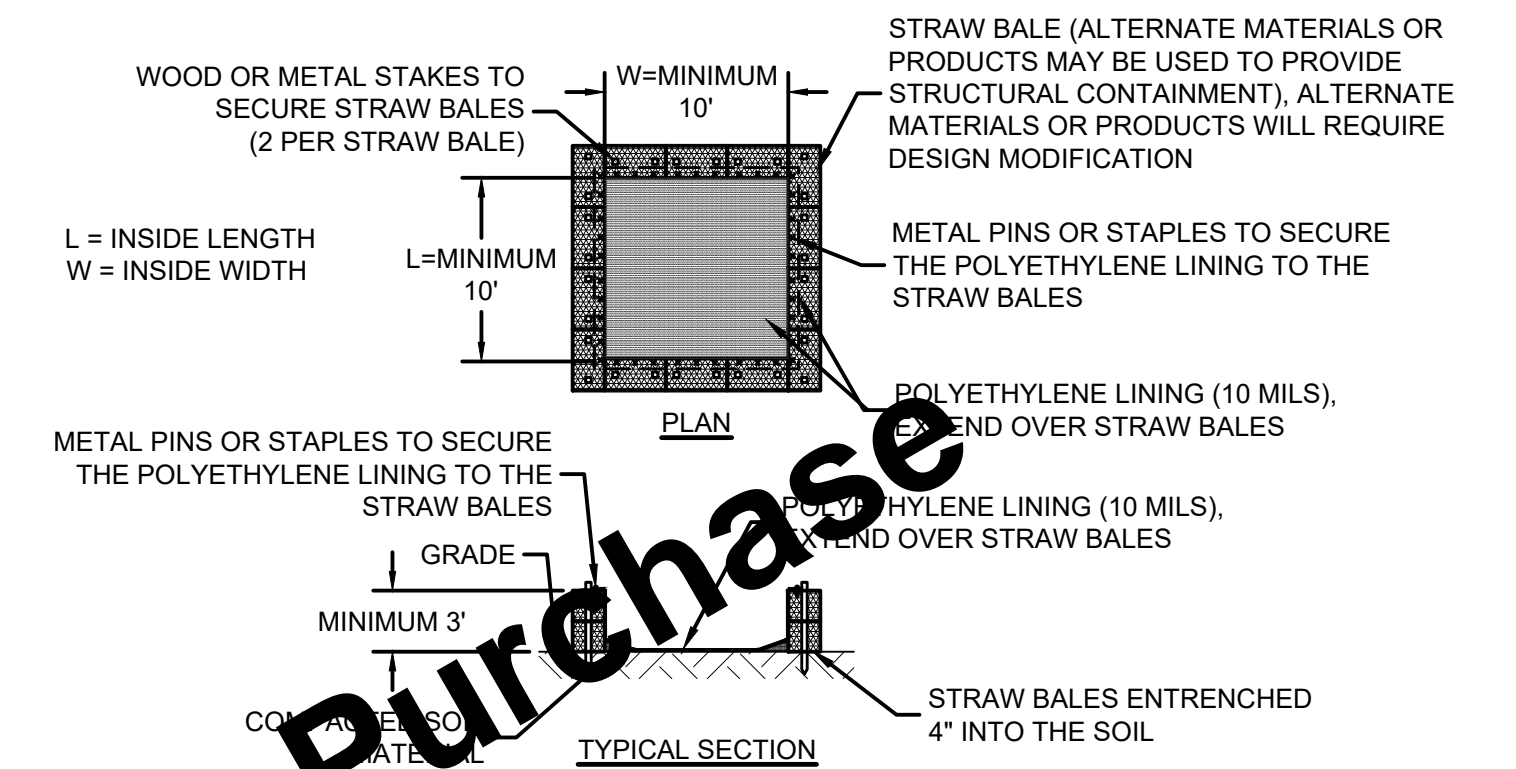
INSTALLATION:

- THE EMPTY INLET PROTECTION BAG SHOULD BE PLACED OVER THE GRATE AS THE GRATE STANDS ON END.
- TUCK THE ENCLOSURE FLAP INSIDE TO COMPLETELY ENCLOSE THE GRATE.
- HOLDING THE LIFTING DEVICES (DO NOT RELY ON LIFTING DEVICES TO SUPPORT THE ENTIRE WEIGHT OF THE GRATE), PLACE THE GRATE INTO ITS FINAL POSITION.

MAINTENANCE:

- REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM THE BAG AND VICINITY OF UNIT AFTER EACH STORM EVENT.
- REMOVE SEDIMENT THAT HAS ACCUMULATED WITHIN THE RETENTION AREA OF THE INLET PROTECTION BAG AS NEEDED.
- INSPECT WITHIN 24 HOURS OF A RAIN EVENT AND ONCE EVERY 7 CALENDAR DAYS.

INLET PROTECTION BAG
SCALE: NONE



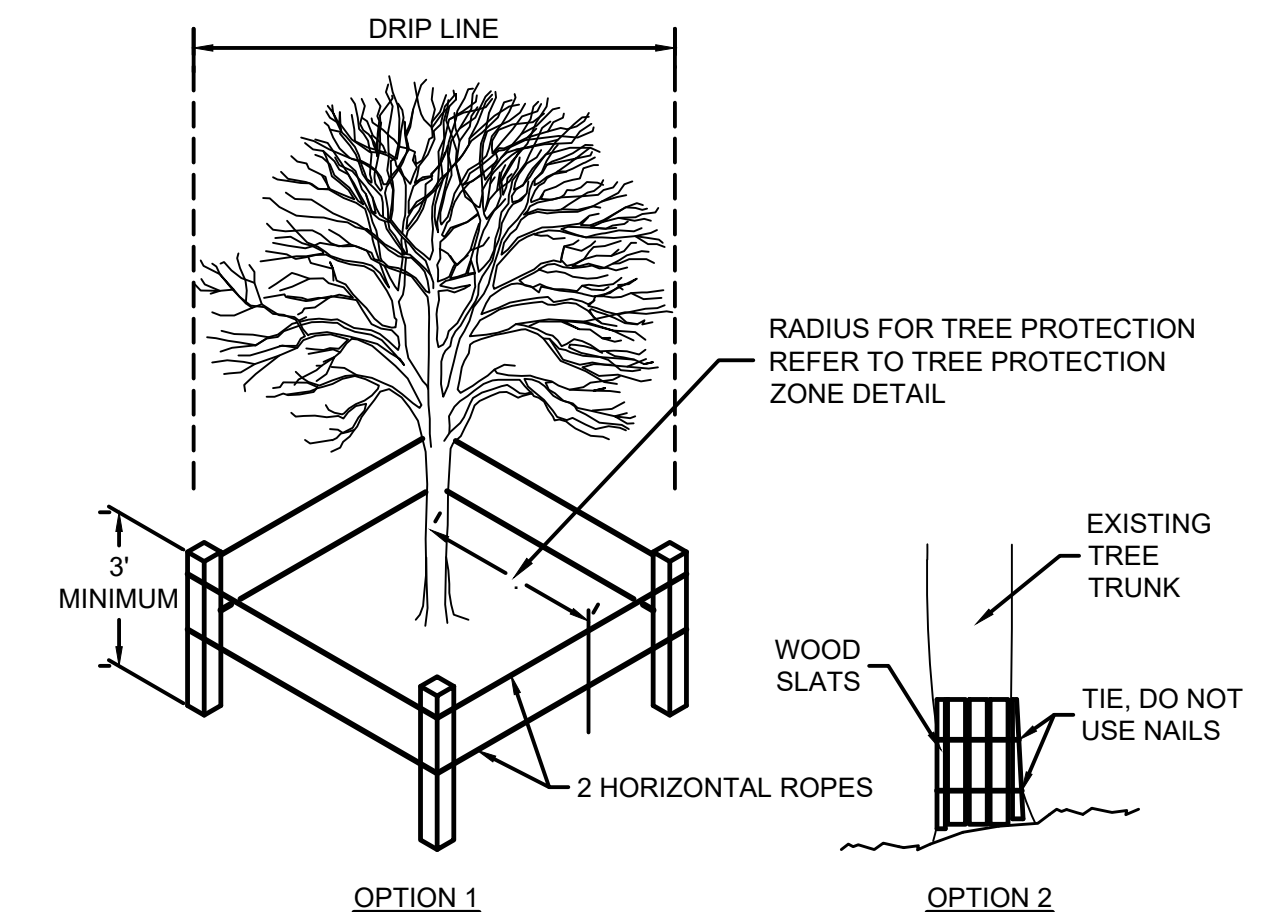
NOTES:

- LOCATE WASHOUTS AT LEAST 50' FROM ANY CREEKS, WETLANDS, DITCHES, KARST FEATURES, OR STORM DRAIN/CONVEYANCES.
- DO NOT LEAVE EXCESS MUD IN THE CHUTES OR HOPPER AFTER POURING CONCRETE. MAKE EVERY EFFORT TO EMPTY THE CHUTE AND HOPPER AT THE POUR. THE LESS MATERIAL LEFT IN THE CHUTES AND HOPPER, THE QUICKER AND EASIER THE CLEANOUT. SMALL AMOUNTS OF EXCESS CONCRETE (NOT WASHOUT WATER) MAY BE DISPOSED OF IN AREAS THAT WILL NOT FLOW TO AN AREA THAT IS TO BE PROTECTED.
- SCRAPE AS MUCH MATERIAL FROM THE CHUTES AS POSSIBLE BEFORE WASHING THEM. USE NON-WATER CLEANING METHODS TO MINIMIZE THE CHANCE FOR WASTE TO FLOW OFF SITE.
- STOP WASHING OUT IN AN AREA IF YOU OBSERVE WATER RUNNING OFF THE DESIGNATED AREA OR IF THE WATER IS NOT BEING CONTAINED WITHIN THE WASHOUT AREA.
- DO NOT BACK FLUSH EQUIPMENT AT THE PROJECT SITE.
- DO NOT USE ADDITIVES WITH WASH WATER.
- DO NOT WASH OUT OR DRAIN WASTE WATERS TO STORM DRAINS, WETLANDS, STREAMS, RIVERS, CREEKS, DITCHES OR STREETS.

MAINTENANCE:

- MAINTENANCE REQUIREMENTS PROVIDED IN SPECIFICATIONS.

CONCRETE WASHOUT
SCALE: NONE



NOTES:

- PROTECT TREES WHERE NOTED ON THE DRAWINGS DURING EXCAVATION TO PROTECT TREE ROOTS.
 - OPTION 1 SHALL BE THE STANDARD TREE PROTECTION METHOD. MULTIPLE TREES MAY BE PROTECTED BY A SINGLE SET OF PERIMETER ROPES PROVIDED THE APPROPRIATE TREE PROTECTION ZONE IS MAINTAINED FOR EACH TREE.
 - OPTION 2 TREE PROTECTION METHOD MAY BE USED TO PREVENT BARK REMOVAL OR DAMAGE TO THE TRUNK OF THE TREE.
- MAINTENANCE:**
- INSPECT AT LEAST ONCE EVERY 7 CALENDAR DAYS.
 - REPAIR PERIMETER BARRIERS IF DAMAGED.
 - INSPECT FOR DAMAGE FROM CONSTRUCTION ACTIVITIES. REPAIR WOUNDS SIMPLY BY REMOVING DAMAGED BARK AND WOOD TISSUE. DO NOT USE TREE PAINT.
 - CABLE AND BRACE ANY TRUNK SPLITS, WEAK FORKS, AND LARGE LIMBS.

TREE PROTECTION METHODS
SCALE: NONE

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SCALE VERIFICATION	DRAWN BY	CLG	NO.	DATE	INITIALS	REVISION DESCRIPTIONS
BAR IS ONE INCH LONG ON ORIGINAL DRAWING 	CHECKED BY	JEB				
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W
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NEWTON COUNTY FAIRGROUNDS ON-SITE SEWAGE TREATMENT SYSTEM

NEWTON COUNTY COMMISSIONERS
NEWTON COUNTY, INDIANA

EROSION CONTROL DETAILS

SHEET NO.	30
TOTAL SHEETS	30