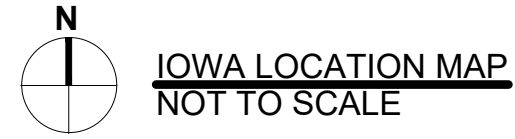


JOHNSON COUNTY



F.W. KENT PARK DUMP STATION

JOHNSON COUNTY CONSERVATION BOARD
2048 HIGHWAY 6 NW OXFORD, IOWA 52322



PROJECT LOCATION

HIGHWAY 6 NW




THE 2023 EDITION OF THE IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS (SUDAS), PLUS GENERAL SUPPLEMENTAL SPECIFICATIONS, AND APPLICABLE SUPPLEMENTAL SPECIFICATIONS, DEVELOPMENTAL SPECIFICATIONS, AND SPECIAL PROVISIONS SHALL APPLY TO ALL WORK PERFORMED ON THIS PROJECT

Sheet List Table	
Sheet Number	Sheet Title
C000	COVER SHEET
C001	QUANTITIES & NOTES
CD01	EXISTING CONDITIONS & REMOVAL PLAN
C100	OVERALL SITE PLAN
C101	SWPPP
C102	DUMP STATION PLAN
C103	SOIL BED AREA PLAN
C201	SOIL BED GRADING PLAN
C301	DUMP STATION & SEPTIC SYSTEM PLAN & PROFILE
C501	DETAILS
C502	DETAILS
C503	DETAILS

CERTIFICATIONS:

CIVIL ENGINEER



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Signature: *Daniel Jensen* Date: 5-31-2023


Printed or typed name: DANIEL JENSEN

License Number: 25063

My License Renewal Date is: DECEMBER 31, 2023

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
C000, C001, CD01, C100, C101, C201, C501, C503.

SEPTIC SYSTEM ENGINEER



I HEREBY CERTIFY THAT THIS ENGINEERING DOCUMENT DESCRIBED BELOW WAS PREPARED BY ME OR UNDER MY DIRECT PERSONAL SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF IOWA.

Signature: *James Carroll* Date: 5-31-2023

Printed or typed name: JAMES CARROLL

License Number: 11328

My License Renewal Date is: DECEMBER 31, 2023

PAGES, SHEETS OR DIVISIONS COVERED BY THIS SEAL:
C102, C103, C201, C301, C502.

GENERAL NOTES

- UTILITY NOTE:
 - THE LOCATIONS OF UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS PLOTTED ON THIS DRAWING ARE APPROXIMATE ONLY AND WERE OBTAINED FROM RECORDS MADE AVAILABLE TO SHIVE-HATTERY, INC. THERE MAY BE OTHER EXISTING UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS NOT KNOWN TO SHIVE-HATTERY, INC. AND NOT SHOWN ON THIS DRAWING. THE VERIFICATION OF EXISTENCE OF, AND THE DETERMINATION OF THE EXACT LOCATION OF, UTILITY MAINS, STRUCTURES AND SERVICE CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR(S).
- NOTIFY UTILITY COMPANIES WHOSE FACILITIES ARE SHOWN ON THE PLANS OR KNOWN TO BE WITHIN CONSTRUCTION LIMITS OF THE SCHEDULE PRIOR TO EACH STAGE OF CONSTRUCTION.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT CRITICAL LOCATIONS TO VERIFY EXACT HORIZONTAL AND VERTICAL LOCATION.
- IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
- NOTIFY THE APPROPRIATE GOVERNING AUTHORITY 48 - 72 HOURS PRIOR TO BEGINNING CONSTRUCTION WITHIN PUBLIC RIGHT-OF-WAY. JOHNSON COUNTY CONSERVATION SHALL BE THE PUBLIC AGENCY RESPONSIBLE FOR INSPECTION DURING CONSTRUCTION OF THE PUBLIC PORTIONS OF THE PROJECT.
- THE MEANS OF THE WORK AND THE SAFETY OF THE CONTRACTOR'S EMPLOYEES ARE SOLELY THE RESPONSIBILITY OF THE CONTRACTOR.
- NO WORK SHALL BE PERFORMED BEYOND THE PROJECT LIMITS WITHOUT PRIOR AUTHORIZATION FROM THE OWNER'S REPRESENTATIVE.
- A PRE-CONSTRUCTION MEETING SHALL BE HELD FOLLOWING ISSUANCE OF THE NOTICE TO PROCEED BUT PRIOR TO COMMENCING WORK.
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2023 EDITION OF THE IOWA STATEWIDE URBAN STANDARD SPECIFICATIONS (SUDAS), UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- PROVIDE TRAFFIC AND PEDESTRIAN CONTROL MEASURES (SIGNS, BARRICADES, FLAGGERS, ETC.) IN COMPLIANCE WITH PART VI OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) LATEST EDITION.
- PROTECT EXISTING UTILITIES DURING CONSTRUCTION.
- MAINTAIN POSITIVE DRAINAGE ON THE SITE THROUGHOUT THE PROJECT DURATION.
- ADJUST ALL VALVES, MANHOLES, CASTINGS, GAS VENTS, ETC., TO MATCH THE NEW SURFACE. ADJUSTMENT SHALL BE COORDINATED WITH THE UTILITY COMPANIES AND THE COST FOR ALL ADJUSTMENTS SHALL BE INCIDENTAL TO THE CONSTRUCTION. AT NO ADDITIONAL COST TO THE OWNER, REPAIR ANY DAMAGE TO SAID STRUCTURES AND APPURTENANCES THAT OCCUR DURING CONSTRUCTION.
- SITE CLEAN-UP SHALL BE PERFORMED ON A DAILY BASIS. SIDEWALKS, PARKING LOTS, ROADWAYS, ETC. SHALL BE KEPT CLEAN AT ALL TIMES.
- ALL OPEN EXCAVATIONS SHALL BE PROTECTED.
- REPLACE ANY PROPERTY MONUMENTS REMOVED OR DESTROYED BY CONSTRUCTION. MONUMENTS SHALL BE SET BY A LAND SURVEYOR REGISTERED TO PRACTICE IN THE STATE OF IOWA.
- CONSTRUCTION ACTIVITIES ARE TO BE LIMITED TO THE EXTENTS SHOWN ON THE PLANS. IF ADDITIONAL AREAS ARE NEEDED FOR STAGING, STORAGE, ETC., IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN WRITTEN PERMISSION FROM THE PROPERTY OWNER(S). COPIES OF THE AGREEMENTS SHALL BE SUBMITTED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE USE OF PROPERTY.
- CONTROL DUST SPREADING FROM ALL WORK AND STAGING AREAS.
- ANY WORK REQUIRED TO COMPLETE THE SCOPE OF THIS PROJECT BUT NOT SET FORTH AS A SPECIFIC BID ITEM, SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR THE COMPLETION OF THIS WORK.
- REPAIR OR REPLACE EXISTING FACILITIES (CURBS, PAVEMENT, UTILITIES, ETC.) TO REMAIN, AT NO ADDITIONAL EXPENSE TO THE OWNER.
- IT IS INTENDED THAT ALL COSTS OF MATERIALS, EQUIPMENT, TOOLS, LABOR AND INCIDENTALS BE PAID FOR UNDER THE ITEMS LISTED ON THE BIDDER'S PROPOSAL. BEFORE SUBMITTING A BID ON THIS PROJECT, THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS, SPECIFICATIONS, SPECIAL PROVISIONS AND THE JOB SITE. IF ANY DISCREPANCIES OR DELETIONS OCCUR IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPORT SAME TO SHIVE-HATTERY, INC. IN WRITING AND OBTAIN WRITTEN CLARIFICATION AND/OR INSTRUCTIONS ON HOW TO PROCEED.
- WORK WHICH DOES NOT CONFORM TO THE REQUIREMENTS OF THE CONTRACT WILL BE CONSIDERED UNACCEPTABLE. UNACCEPTABLE WORK, WHETHER THE RESULT OF POOR WORKMANSHIP, USE OF DEFECTIVE MATERIALS, DAMAGE THROUGH CARELESSNESS OR ANY OTHER CAUSE, FOUND TO EXIST PRIOR TO THE FINAL ACCEPTANCE OF THE WORK, SHALL BE REMOVED AND REPLACED IN AN ACCEPTABLE MANNER, AS REQUIRED BY SHIVE-HATTERY, INC. AT THE CONTRACTOR'S EXPENSE. WORK DONE CONTRARY TO THE INSTRUCTIONS OF SHIVE-HATTERY, INC., WORK DONE BEYOND THE LINES SHOWN ON THE PLANS OR ANY EXTRA WORK DONE WITHOUT AUTHORITY WILL NOT BE PAID FOR.
- THE CONTRACTOR SHALL PROTECT ALL TREES SHOWN TO BE SAVED ON THE PLANS. CONTRACTOR SHALL ERECT FENCING AROUND TREE AT THE DRIP LINE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PARK OR TRAVEL WITH ANY VEHICLE UNDER THE TREE DRIP LINE.

ESTIMATED PROJECT QUANTITIES

#	ITEM DESCRIPTION	QUANTITY	UNITS
1	GENERAL CONDITIONS AND MOBILIZATION	1	LS
2	CONSTRUCTION SURVEY	1	LS
3	TOPOSOIL STRIP, STOCKPILE AND RESPREAD	1,330	CY
4	EXCAVATION AND BACKFILL, SEPTIC TANKS	962	CY
5	2" WATER SUPPLY, DIRECTIONAL BORE	297	LF
6	2" WATER SUPPLY, TRENCHED	32	LF
7	4" WATER TAP, CURB STOP	1	EA
8	1.5" SANITARY FORCEMAIN, DIRECTIONAL BORE	880	LF
9	6" SCHEDULE 40 PVC, SANITARY PIPING, TRENCHED	47	LF
10	4" SCHEDULE 40 PVC, SANITARY PIPING, TRENCHED	295	LF
11	MANHOLE, SEPTIC DISTRIBUTION BOX	1	EA
12	SEPTIC TANKS, 2,500 GALLON	6	EA
13	COCONUT FILTER TANKS AND DISTRIBUTION BOX	6	EA
14	PUMP TANKS, 1,500 GALLON	1	EA
15	SOIL BED MATERIAL EXCAVATION AND PLACEMENT	1,680	CY
16	DISTRIBUTION PIPING, SOIL BEDS, 2" SCHEDULE 40 PVC PRESSURE PIPE	764	LF
17	1.5" - 2.5" WASHED GRAVEL, SOIL BED	562	TON
18	PERFORATED DISTRIBUTION PIPING, SOIL BEDS, 2" SCHEDULE 40 PVC	1,380	LF
19	4" PERFORATED TILE	693	LF
20	TILE CLEANOUT	2	EA
21	PUMPS AND CONTROLS, SIMPLEX	2	EA
22	ELECTRICAL SERVICE AND CONNECTIONS	2	LS
23	DUMP STATION, INLET AND CONCRETE	2	EA
24	DUMP STATION, HYDRANTS	2	EA
25	SWPPP, MANAGEMENT	1	LS
26	SEEDBED PREPARATION	2.3	AC

LEGEND	
UTILITIES	
PLAN MARK	DESCRIPTION
	WATER IRRIGATION VALVE
	UTILITY POLE W/TRANSFORMER
	SIREN POLE
	WATER SHUTOFF VALVE
	GUY ANCHOR
	FIRE HYDRANT
	FLARED END SECTION
	VALVE
	STOP BOX
	CABLE TV PEDESTAL
	CLEANOUT
	JUNCTION BOX
	MANHOLE
	STORM MANHOLE
	ELECTRICAL MANHOLE
	SANITARY MANHOLE
	TELEPHONE MANHOLE
	TELEPHONE PEDESTAL
	VAULT BOX
	HANDHOLE
	SIGNAL BOX
	GAS METER
	ELECTRIC METER
	WATER METER
	CURB INLET
	INTAKE - CIRCLE
	INTAKE - RECTANGLE
	INTAKE - SQUARE

LEGEND	
EXISTING GENERAL SITE	
PLAN MARK	DESCRIPTION
	EXISTING STRUCTURE
	BOLLARD
	SHRUB
	DECIDUOUS TREE
	CONIFEROUS TREE
	SINGLE POLE SIGN
	DOUBLE POLE SIGN
	TREE LINE
	MINOR CONTOUR
	MAJOR CONTOUR

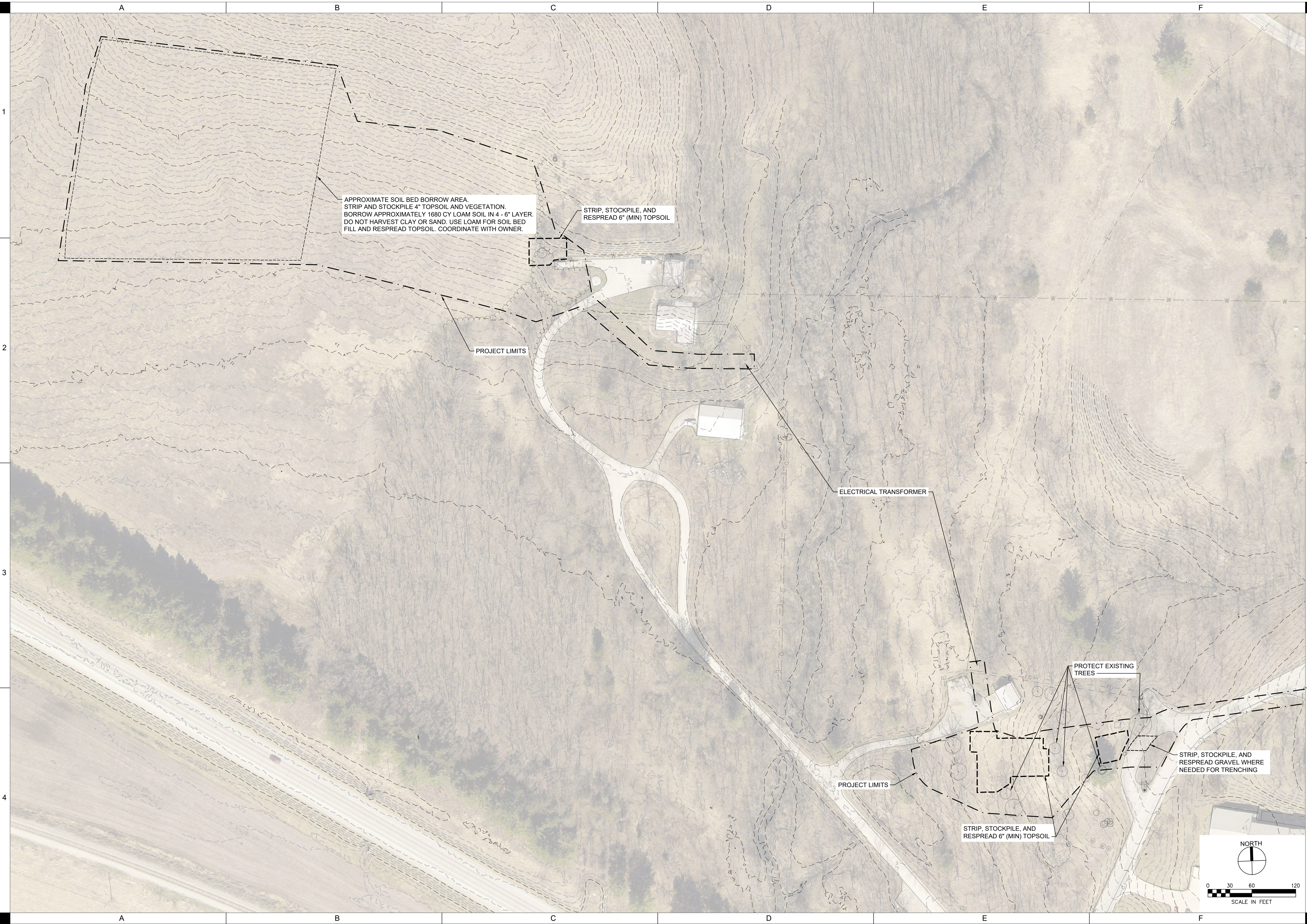
LEGEND		
UTILITY LINES		
EXISTING LINE TYPE	DESCRIPTION	PROPOSED LINE TYPE
	ELECTRIC - OVERHEAD	
	ELECTRIC - UNDERGROUND	
	GAS MAIN	
	WATER MAIN	
	SANITARY SEWER	
	STORM SEWER	
	TELEPHONE - UNDERGROUND	
	FIBER OPTICS	
	HIGH VOLTAGE ELECTRICAL	
	LOW VOLTAGE ELECTRICAL	

SHIVE-HATTERY
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Iowa | Illinois | Indiana | Nebraska

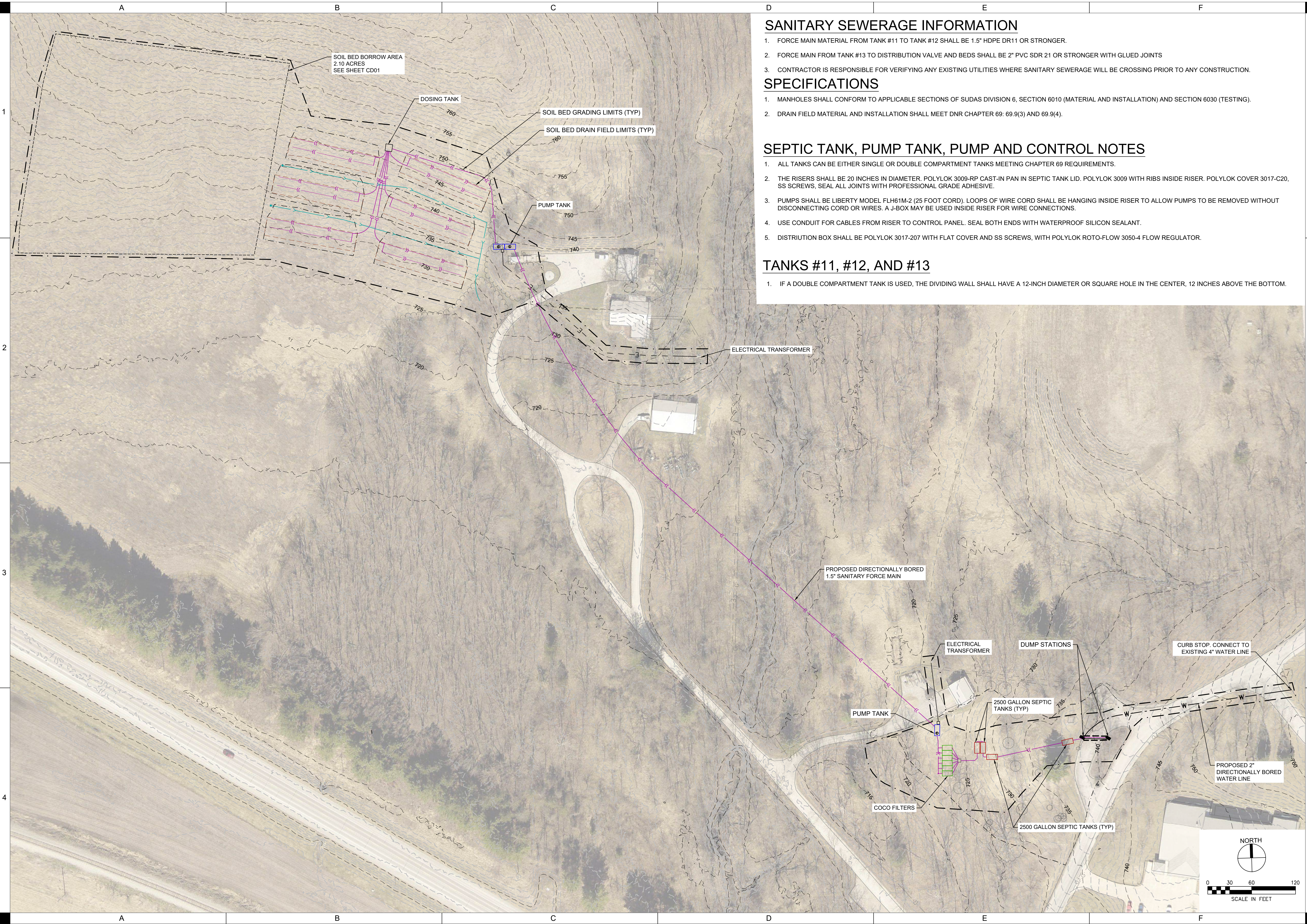
KENT PARK DUMP STATION
JOHNSON COUNTY CONSERVATION

DRAWN: ANI
APPROVED: DJJ
ISSUED FOR: BID
DATE: 05/31/2023
PROJECT NO: 427760
FIELD BOOK: --
CLIENT NO: --

QUANTITIES & NOTES
C001



DRAWN:	ANI
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SANITARY SEWERAGE INFORMATION

1. FORCE MAIN MATERIAL FROM TANK #11 TO TANK #12 SHALL BE 1.5" HDPE DR11 OR STRONGER.
2. FORCE MAIN FROM TANK #13 TO DISTRIBUTION VALVE AND BEDS SHALL BE 2" PVC SDR 21 OR STRONGER WITH GLUED JOINTS
3. CONTRACTOR IS RESPONSIBLE FOR VERIFYING ANY EXISTING UTILITIES WHERE SANITARY SEWERAGE WILL BE CROSSING PRIOR TO ANY CONSTRUCTION.

SPECIFICATIONS

1. MANHOLES SHALL CONFORM TO APPLICABLE SECTIONS OF SUDAS DIVISION 6, SECTION 6010 (MATERIAL AND INSTALLATION) AND SECTION 6030 (TESTING).
2. DRAIN FIELD MATERIAL AND INSTALLATION SHALL MEET DNR CHAPTER 69: 69.9(3) AND 69.9(4).

SEPTIC TANK, PUMP TANK, PUMP AND CONTROL NOTES

1. ALL TANKS CAN BE EITHER SINGLE OR DOUBLE COMPARTMENT TANKS MEETING CHAPTER 69 REQUIREMENTS.
2. THE RISERS SHALL BE 20 INCHES IN DIAMETER, POLYLOK 3009-RP CAST-IN PAN IN SEPTIC TANK LID. POLYLOK 3009 WITH RIBS INSIDE RISER. POLYLOK COVER 3017-C20, SS SCREWS, SEAL ALL JOINTS WITH PROFESSIONAL GRADE ADHESIVE.
3. PUMPS SHALL BE LIBERTY MODEL FLH61M-2 (25 FOOT CORD). LOOPS OF WIRE CORD SHALL BE HANGING INSIDE RISER TO ALLOW PUMPS TO BE REMOVED WITHOUT DISCONNECTING CORD OR WIRES. A J-BOX MAY BE USED INSIDE RISER FOR WIRE CONNECTIONS.
4. USE CONDUIT FOR CABLES FROM RISER TO CONTROL PANEL. SEAL BOTH ENDS WITH WATERPROOF SILICON SEALANT.
5. DISTRIBUTION BOX SHALL BE POLYLOK 3017-207 WITH FLAT COVER AND SS SCREWS, WITH POLYLOK ROTO-FLOW 3050-4 FLOW REGULATOR.

TANKS #11, #12, AND #13

1. IF A DOUBLE COMPARTMENT TANK IS USED, THE DIVIDING WALL SHALL HAVE A 12-INCH DIAMETER OR SQUARE HOLE IN THE CENTER, 12 INCHES ABOVE THE BOTTOM.

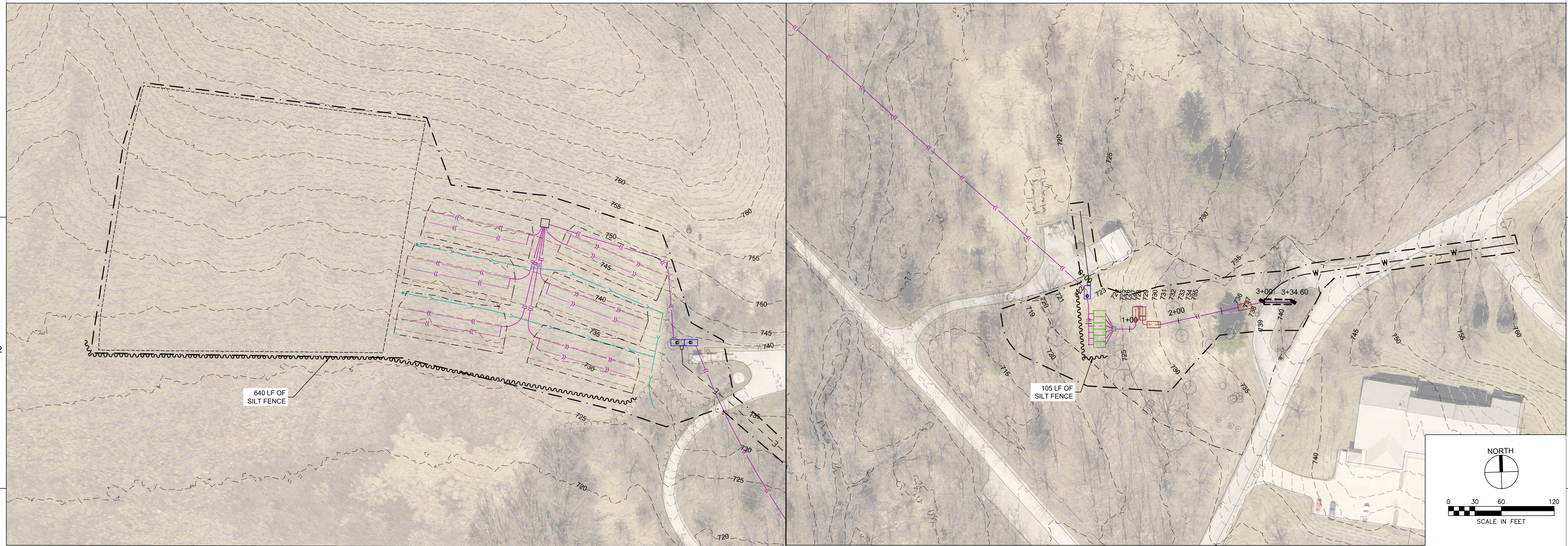
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OVERALL SITE PLAN

SOIL BED AREA SWPPP

DUMP STATION AREA SWPPP



STORMWATER POLLUTION PREVENTION NOTES

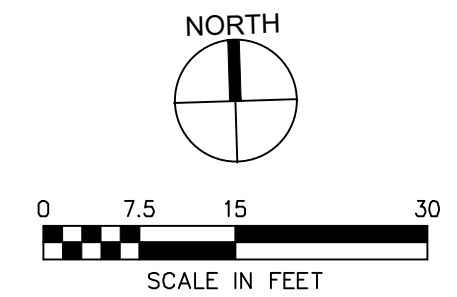
- THE CONTRACTOR IS THE CO-APPLICANT FOR THE NPDES PERMIT AND IS REQUIRED TO DO ALL REQUIRED RECORD KEEPING. ALL RECORDS SHALL BE SUBMITTED TO THE OWNERS REPRESENTATIVE AS THEY ARE PRODUCED.
- THE SEDIMENT CONTROLS IDENTIFIED ON THIS DRAWING MUST BE INSTALLED PRIOR TO SOIL-DISTURBING ACTIVITIES AND ARE TO REMAIN THROUGHOUT CONSTRUCTION. THESE ITEMS INCLUDE, BUT ARE NOT LIMITED TO, PERIMETER CONTROLS, STABILIZED CONSTRUCTION ENTRANCES, INTAKE PROTECTION, AREAS OF CONCENTRATED FLOW AND STOCKPILE PROTECTION.
- EROSION / SEDIMENTATION CONTROL MEASURES SHOULD BE INSTALLED BEFORE EARTH DISTURBING ACTIVITIES BEGIN AND ARE REQUIRED REGARDLESS OF THE TIME OF YEAR. THIS PLAN AND ITS ASSOCIATED REQUIREMENTS FOR THE PERMIT MUST BE IMPLEMENTED DURING WINTER MONTHS AS WELL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTROL EROSION/SEDIMENTATION ON THE SITE AT ALL TIMES. THE CONTROL MEASURES SHOWN ON THE PLAN ARE A MINIMUM. THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION/SEDIMENTATION CONTROL MEASURES AS NECESSARY TO FULFILL THIS REQUIREMENT. CONTRACTOR IS REQUIRED TO MAINTAIN SWPPP DOCUMENTATION.
- THE CONTRACTOR IS REQUIRED TO USE STABILIZATION CONTROLS FOR AREAS THAT WILL NOT BE REDISTURBED FOR 14 DAYS OR MORE. STABILIZATION MEASURES WILL BE IMPLEMENTED IMMEDIATELY AFTER CONSTRUCTION ACTIVITY HAS CEASED IN THAT AREA. STABILIZATION MEASURES ARE REQUIRED TO PREVENT BOTH SEDIMENTATION AND EROSION. THE CONTRACTOR IS STRONGLY ENCOURAGED TO PROVIDE STABILIZATION CONTROLS FOR ALL DISTURBED AREAS ON SITE REGARDLESS OF THE TIME PERIOD BEFORE THEY WILL BE DISTURBED AGAIN. THE CONTRACTOR SHALL SEED DISTURBED AREAS AS SOON AS WORK IS COMPLETED AS INDICATED ON THE PLANS AND PROJECT MANUAL.
- THE CONTRACTOR SHALL USE CONTROL MEASURES AS REQUIRED TO KEEP SOILS FROM LEAVING THE SITE.
- CONTRACTOR SHALL IMPLEMENT SITE SPECIFIC BEST MANAGEMENT PRACTICES (BMPs) AS SHOWN AND REQUIRED BY THE SWPPP/SECC. ADDITIONAL BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED BY THE CONTRACTOR AS DICTATED BY SITE CONDITIONS OR THE PROJECT GOVERNING AUTHORITIES AT NO ADDITIONAL COST TO THE OWNER THROUGHOUT ALL PHASES OF CONSTRUCTION.
- IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL SOIL EROSION, SEDIMENT AND/OR POLLUTION FROM THE PROJECT SITE, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
- ALL BMPs AND CONTROLS INSTALLED ON GREEN INFRASTRUCTURE SHALL REMAIN UNTIL STABILIZATION IS APPROVED BY THE OWNER.
- IN THE EVENT THAT SOILS LEAVE THE SITE, CLEANUP OF ALL SURROUNDING ROADS, DRIVES, AND PARKING LOTS SHALL BE PERFORMED ON A DAILY BASIS AT A MINIMUM AND UPON REQUEST BY OWNER'S REPRESENTATIVE AT NO ADDITIONAL COST. PAVEMENT IS TO BE SCRAPED OF DEBRIS AND MUD AND BROOMED CLEAN. MUD TRACKS ARE TO BE REMOVED AS THEY ARE CREATED.
- IF AFTER REPEATED FAILURE ON THE PART OF THE CONTRACTOR TO PROPERLY CONTROL SOIL EROSION, SEDIMENT AND/OR POLLUTION FROM THE PROJECT SITE, THE GOVERNING AUTHORITIES RESERVE THE RIGHT TO EFFECT NECESSARY CORRECTIVE MEASURES AND CHARGE ANY COSTS TO THE CONTRACTOR.
- IF DURING CONSTRUCTION OPERATIONS ANY LOOSE MATERIALS ARE DEPOSITED IN THE FLOW LINE OF GUTTERS, DRAINAGE STRUCTURES, OR DITCHES SUCH THAT THE NATURAL FLOW LINE OF WATER IS OBSTRUCTED, THIS LOOSE MATERIAL SHALL BE REMOVED.
- ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY EXISTING STORM DRAINAGE SYSTEMS BY THE USE OF INLET PROTECTION OR OTHER APPROVED FUNCTIONAL METHODS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING SEDIMENT RESULTING FROM CONSTRUCTION ACTIVITIES ASSOCIATED WITH THIS PROJECT.
- CONSTRUCTION ACCESS POINTS TO THE SITE SHALL BE PROTECTED IN SUCH A WAY AS TO PREVENT TRACKING OF MUD OR SOIL ONTO PUBLIC THOROUGHFARES. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- MAINTAIN SILT FENCING AT ALL TIMES IN AN UPRIGHT POSITION. CLEAN SILT FROM FENCING ON A REGULAR BASIS AS PER THE STANDARD SPECIFICATIONS. SILT FENCES MUST BE CLEANED OUT WHEN THEY ARE 50% FULL.
- CONTRACTOR TO LOCATE/ RELOCATE SILT FENCING/ FILTER SOCKS AS NECESSARY THROUGHOUT THE PROJECT TO CONTROL EROSION/SEDIMENTATION. SILT FENCE INSTALLATION IS TO FOLLOW SUDAS 9040.119. FILTER SOCK INSTALLATION IS TO FOLLOW SUDAS 9040.102.
- REMOVE ALL TEMPORARY EROSION/SEDIMENTATION CONTROLS NOT CALLED OUT TO REMAIN AFTER SITE HAS BEEN STABILIZED AND APPROVED BY THE OWNER'S REPRESENTATIVE. OWNER WILL REMOVE SILT FENCE AFTER SITE HAS STABILIZED.
- CONTRACTOR TO USE EXTREME CAUTION WHILE INSTALLING SILT FENCE OR OTHER EROSION CONTROL DEVICES SO AS NOT TO DAMAGE UNDERGROUND UTILITIES.
- EROSION CONTROL BLANKETS SHALL BE USED IN AREAS OF 4:1 SLOPE OR STEEPER AND ANY AREAS STABILIZED IN THE FALL FOR OVERWINTERING. OWNER WILL FURNISH AND INSTALL ALL EROSION CONTROL BLANKET AND SEEDING AFTER THE SITE IS FINAL GRADED AND SEEDED. OWNER WILL SEED ALL COVER CROPS AND PERMANENT VEGETATION.
- SANITARY WASTE DISPOSAL: PORTABLE REST ROOM FACILITIES ARE ANTICIPATED TO BE PLACED ON-SITE. IN THE EVENT THAT PORTABLE REST ROOM FACILITIES ARE USED ON-SITE, THE CONTRACTOR IS REQUIRED TO INSTALL AN EROSION CONTROL DEVICE AROUND THE FACILITY TO MINIMIZE THE RADIUS OF THE AFFECTED ZONE IN THE EVENT OF A SPILL. WASTES SHALL BE COLLECTED AND DISPOSED OF IN COMPLETE COMPLIANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS. PORTABLE RESTROOM FACILITIES MUST NOT BE LOCATED NEAR DRAINAGE WAYS AND SHALL BE STAKED INTO THE GROUND.
- IDENTIFICATION OF ALLOWABLE NON-STORMWATER DISCHARGES: DURING CONSTRUCTION, WHICH INCLUDES WATER FLUSHED FROM WATER LINES, PAVEMENT AND EQUIPMENT WASHING, AND GROUNDWATER (DEWATERING), SHOULD BE FILTERED WITH APPROPRIATE METHODS AND DIRECTED AWAY FROM DRAINAGE WAYS.
- POLLUTION AND SPILL PREVENTION PLANNING: POTENTIALLY HAZARDOUS MATERIALS ON THE CONSTRUCTION SITE INCLUDE FUEL, LUBRICANTS, CURING COMPOUNDS, FERTILIZERS, GREASE AND CLEANING SOLVENTS. ALL REASONABLE PRECAUTIONS WILL BE TAKEN TO PREVENT SPILLS. ANY SPILLED MATERIAL WILL IMMEDIATELY BE DIRECTED AWAY FROM STORM WATER INTAKES, DETENTION BASINS, OR DRAINAGE WAYS. SPILLED MATERIALS WILL BE CLEANED AND, IF NECESSARY, SOIL REMEDIATION PRACTICES WILL BE USED. A RECORD OF SPILLS WILL BE MAINTAINED BY THE MAIN CONTRACTOR.
- CONCRETE, PAINT AND GROUT WASHOUT AREA: THE WASHOUT AREA SHOULD BE AN APPROVED CONCRETE WASHOUT CONTAINER, COLLECTION BAG, OR WASHOUT BOX PER SUDAS 11.050. PROTECT WITH AN EROSION CONTROL DEVICE (IF USING FILTER SOCKS, STACK TWO (2) TALL). CONTRACTOR TO HAUL OFF ALL WASTE MATERIAL. ALL LOCATIONS OF CONCRETE, PAINT AND GROUT WASHOUT AREAS MUST BE PROVIDED BY THE CONTRACTOR AND IDENTIFIED ON THE PLAN (RELOCATE AS REQUIRED FOR CONSTRUCTION). THE CONTRACTOR IS REQUIRED TO INSTALL A SIGN THAT DESIGNATES THE WASHOUT AREA.
- SPILL KIT: A SPILL KIT IS REQUIRED TO BE ON-SITE AND LOCATION NOTED ON THE STORMWATER POLLUTION PREVENTION PLAN. THE SPILL KIT SHOULD BE DESIGNED TO DEAL WITH ANY HAZARDOUS MATERIALS ON-SITE.
- DUST CONTROL: THE CONTRACTOR SHALL IMPLEMENT DUST CONTROL MEASURES WHERE DUST IS GENERATED. FREQUENT WATERING OF THE SITE, SPRINKLED, VEGETATIVE COVER, MULCH, WINDBREAKS, TILLAGE, STONE AND SPRAY-ON CHEMICAL SOIL TREATMENTS (PALLIATIVES) ARE POSSIBLE DUST CONTROL MEASURES. IF THE DUST CONTROL IS NOT ACCEPTABLE IT SHALL BE CHANGED AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
- STOCKPILED MATERIALS: CONTRACTOR TO IDENTIFY ALL LOCATIONS OF STOCKPILED MATERIALS ON THE STORMWATER POLLUTION PREVENTION PLAN. CONTRACTOR SHALL PROVIDE ALL EROSION/SEDIMENTATION CONTROLS AS REQUIRED TO CONTAIN MATERIALS ON-SITE. AT A MINIMUM, THE CONTRACTOR IS REQUIRED TO PROVIDE SILT FENCE/FILTER SOCKS AROUND STOCKPILED SOILS BEFORE STOCKPILE IS RE-SPREAD. IF STOCKPILE SOILS WILL REMAIN INACTIVE FOR 14 DAYS OR MORE, THEY SHALL BE SEEDED OR TARPED BY THE CONTRACTOR.
- THE CONTRACTOR SHALL AMEND THE SWPPP WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION OR MAINTENANCE OF A STORMWATER BMP.

DRAWN:	ANI
APPROVED:	DJ
ISSUED FOR:	BID
DATE:	06/21/2023
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CLIENT NO.:	---



- ELECTRICAL NOTES:**
1. ALL ELECTRICAL WORK SHALL BE COMPLETED BY A LICENSED ELECTRICIAN.
 2. E1: 100 AMP 120/240 PEDESTAL FURNISHED BY OWNER INSTALLED BY ELECTRICAL CONTRACTOR (MODEL # GE U075CP6010). PROVIDE (3) #2, (1) #6 GND IN 1-1/2" CONDUIT FROM TRANSFORMER
 3. E2: CONNECT PUMP TO 20A/1P BREAKER IN PEDESTAL. CIRCUIT WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.

DUMP STATIONS.
 3' X 3' CONCRETE DRAIN BASIN
 S⁴ WITH 4" DUCTILE IRON, SELF
 6" CLOSING & FOOT OPERATED
 HATCH AND FREEZELESS ANTI
 SIPHON WATER HYDRANT TOWER.
 COORDINATE EXACT LOCATION
 WITH OWNER.

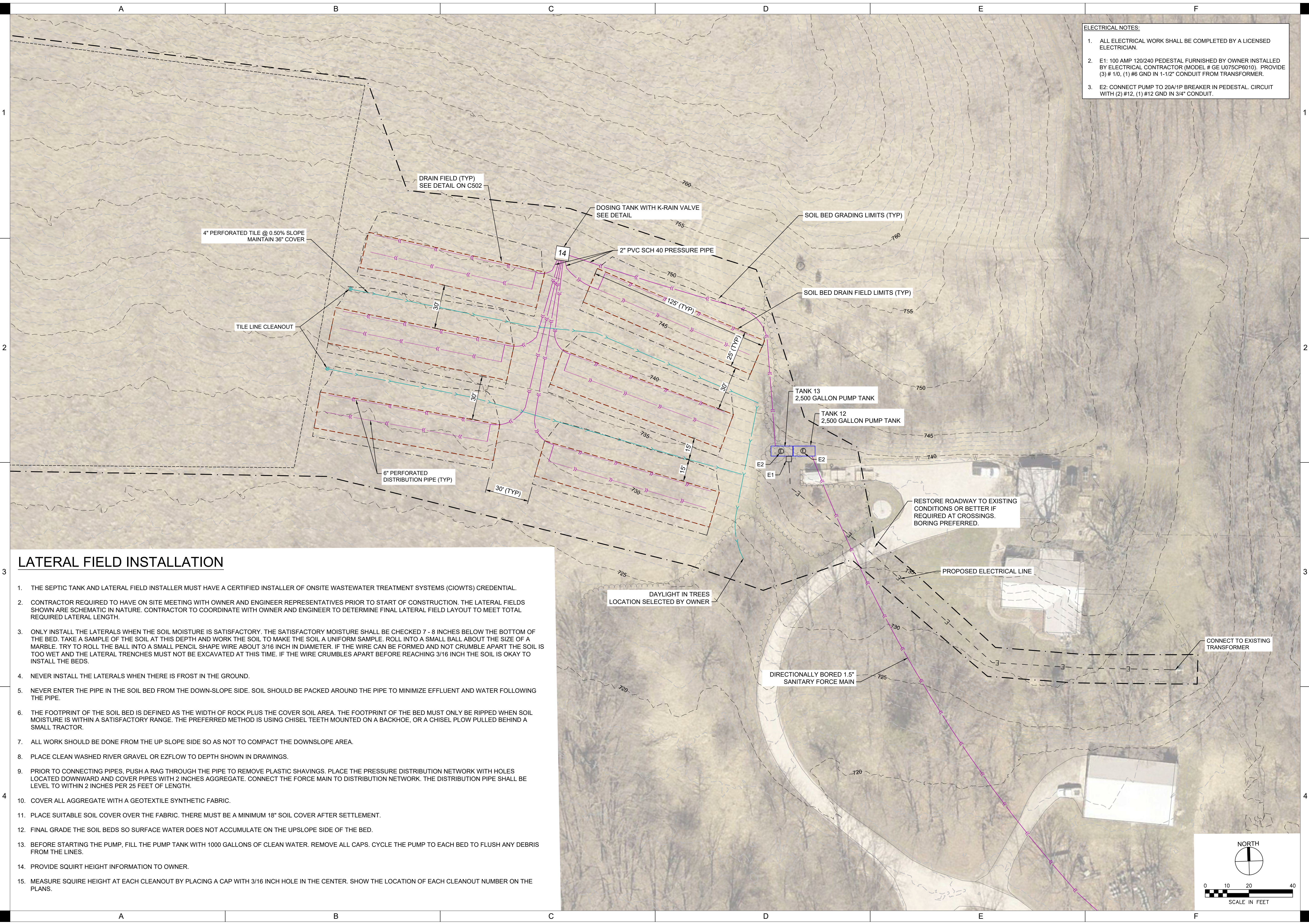


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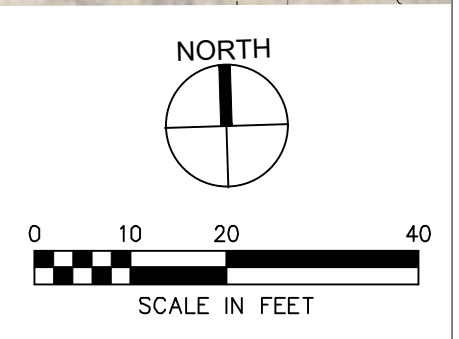
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DATE:	05/31/2023
PROJECT NO.:	427760
FIELD BOOK:	--
CLIENT NO.:	--

- ELECTRICAL NOTES:**
1. ALL ELECTRICAL WORK SHALL BE COMPLETED BY A LICENSED ELECTRICIAN.
 2. E1: 100 AMP 120/240 PEDESTAL FURNISHED BY OWNER INSTALLED BY ELECTRICAL CONTRACTOR (MODEL # GE U075CP6010). PROVIDE (3) # 1/0, (1) #6 GND IN 1-1/2" CONDUIT FROM TRANSFORMER.
 3. E2: CONNECT PUMP TO 20A/1P BREAKER IN PEDESTAL. CIRCUIT WITH (2) #12, (1) #12 GND IN 3/4" CONDUIT.



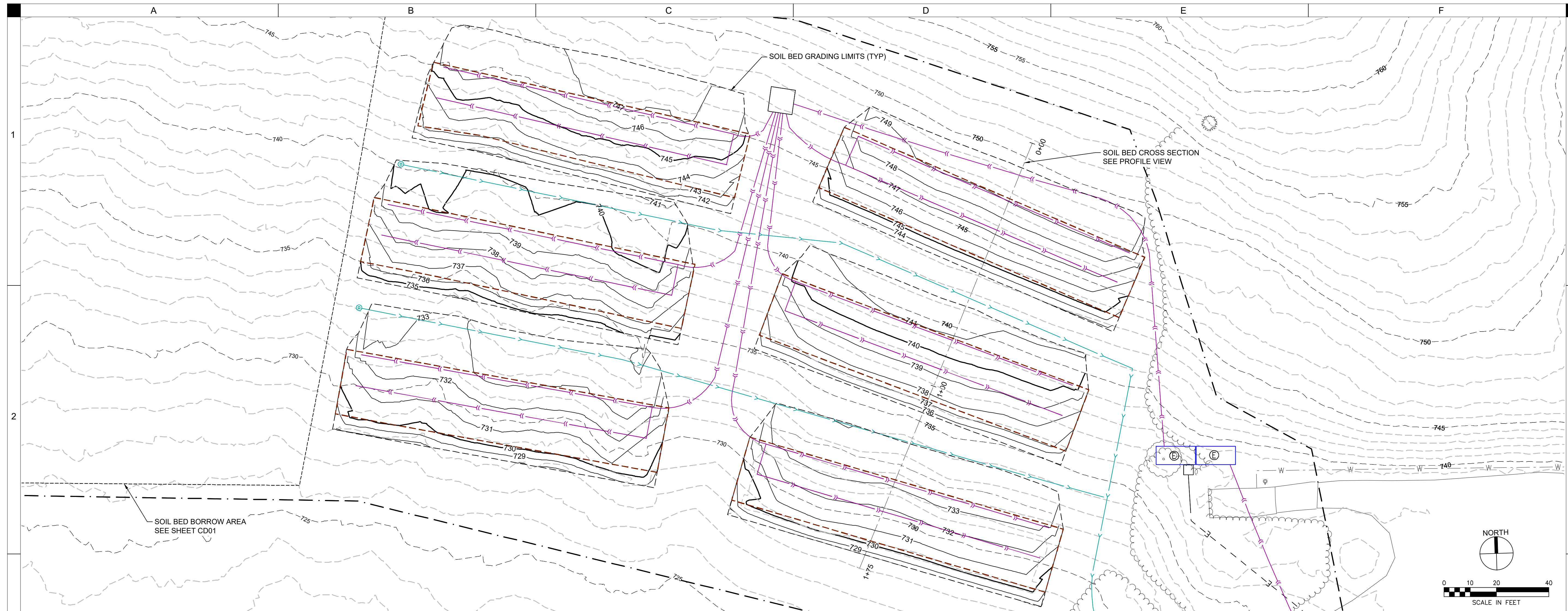
LATERAL FIELD INSTALLATION

1. THE SEPTIC TANK AND LATERAL FIELD INSTALLER MUST HAVE A CERTIFIED INSTALLER OF ONSITE WASTEWATER TREATMENT SYSTEMS (CIOWTS) CREDENTIAL.
2. CONTRACTOR REQUIRED TO HAVE ON SITE MEETING WITH OWNER AND ENGINEER REPRESENTATIVES PRIOR TO START OF CONSTRUCTION. THE LATERAL FIELDS SHOWN ARE SCHEMATIC IN NATURE. CONTRACTOR TO COORDINATE WITH OWNER AND ENGINEER TO DETERMINE FINAL LATERAL FIELD LAYOUT TO MEET TOTAL REQUIRED LATERAL LENGTH.
3. ONLY INSTALL THE LATERALS WHEN THE SOIL MOISTURE IS SATISFACTORY. THE SATISFACTORY MOISTURE SHALL BE CHECKED 7 - 8 INCHES BELOW THE BOTTOM OF THE BED. TAKE A SAMPLE OF THE SOIL AT THIS DEPTH AND WORK THE SOIL TO MAKE THE SOIL A UNIFORM SAMPLE. ROLL INTO A SMALL BALL ABOUT THE SIZE OF A MARBLE. TRY TO ROLL THE BALL INTO A SMALL PENCIL SHAPE WIRE ABOUT 3/16 INCH IN DIAMETER. IF THE WIRE CAN BE FORMED AND NOT CRUMBLE APART THE SOIL IS TOO WET AND THE LATERAL TRENCHES MUST NOT BE EXCAVATED AT THIS TIME. IF THE WIRE CRUMBLES APART BEFORE REACHING 3/16 INCH THE SOIL IS OKAY TO INSTALL THE BEDS.
4. NEVER INSTALL THE LATERALS WHEN THERE IS FROST IN THE GROUND.
5. NEVER ENTER THE PIPE IN THE SOIL BED FROM THE DOWN-SLOPE SIDE. SOIL SHOULD BE PACKED AROUND THE PIPE TO MINIMIZE EFFLUENT AND WATER FOLLOWING THE PIPE.
6. THE FOOTPRINT OF THE SOIL BED IS DEFINED AS THE WIDTH OF ROCK PLUS THE COVER SOIL AREA. THE FOOTPRINT OF THE BED MUST ONLY BE RIPPED WHEN SOIL MOISTURE IS WITHIN A SATISFACTORY RANGE. THE PREFERRED METHOD IS USING CHISEL TEETH MOUNTED ON A BACKHOE, OR A CHISEL PLOW PULLED BEHIND A SMALL TRACTOR.
7. ALL WORK SHOULD BE DONE FROM THE UP SLOPE SIDE SO AS NOT TO COMPACT THE DOWNSLOPE AREA.
8. PLACE CLEAN WASHED RIVER GRAVEL OR EZFLOW TO DEPTH SHOWN IN DRAWINGS.
9. PRIOR TO CONNECTING PIPES, PUSH A RAG THROUGH THE PIPE TO REMOVE PLASTIC SHAVINGS. PLACE THE PRESSURE DISTRIBUTION NETWORK WITH HOLES LOCATED DOWNWARD AND COVER PIPES WITH 2 INCHES AGGREGATE. CONNECT THE FORCE MAIN TO DISTRIBUTION NETWORK. THE DISTRIBUTION PIPE SHALL BE LEVEL TO WITHIN 2 INCHES PER 25 FEET OF LENGTH.
10. COVER ALL AGGREGATE WITH A GEOTEXTILE SYNTHETIC FABRIC.
11. PLACE SUITABLE SOIL COVER OVER THE FABRIC. THERE MUST BE A MINIMUM 18" SOIL COVER AFTER SETTLEMENT.
12. FINAL GRADE THE SOIL BEDS SO SURFACE WATER DOES NOT ACCUMULATE ON THE UPSLOPE SIDE OF THE BED.
13. BEFORE STARTING THE PUMP, FILL THE PUMP TANK WITH 1000 GALLONS OF CLEAN WATER. REMOVE ALL CAPS. CYCLE THE PUMP TO EACH BED TO FLUSH ANY DEBRIS FROM THE LINES.
14. PROVIDE SQUIRE HEIGHT INFORMATION TO OWNER.
15. MEASURE SQUIRE HEIGHT AT EACH CLEANOUT BY PLACING A CAP WITH 3/16 INCH HOLE IN THE CENTER. SHOW THE LOCATION OF EACH CLEANOUT NUMBER ON THE PLANS.

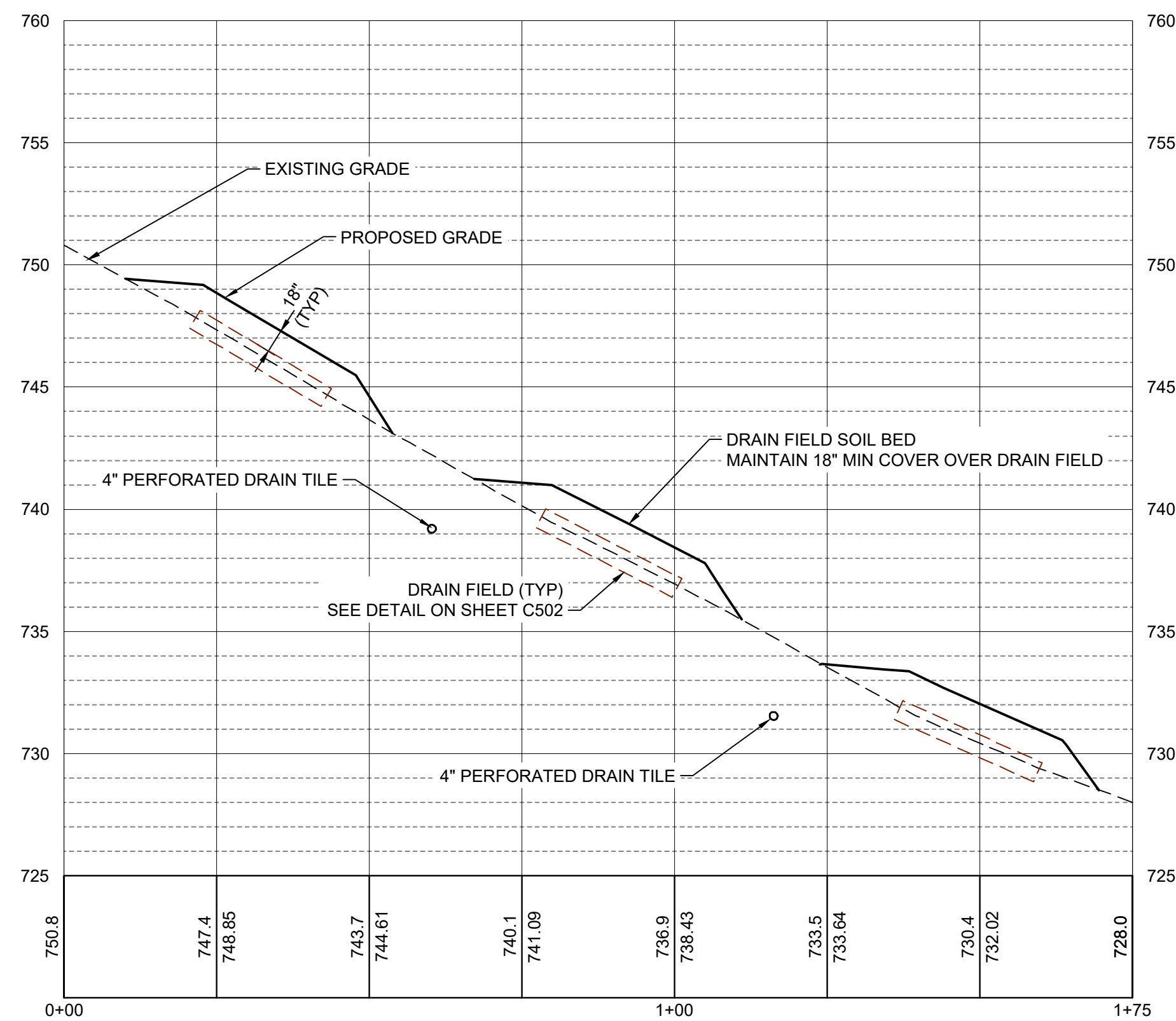


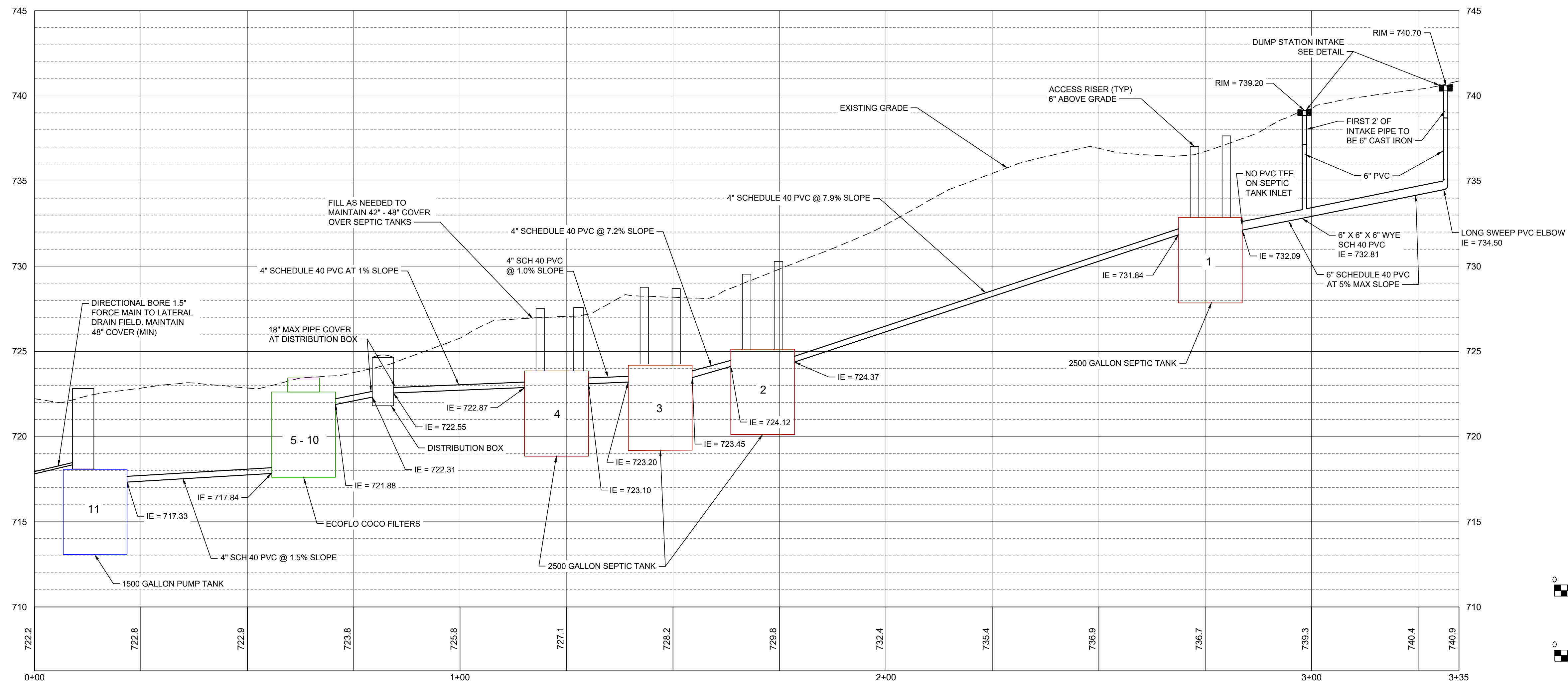
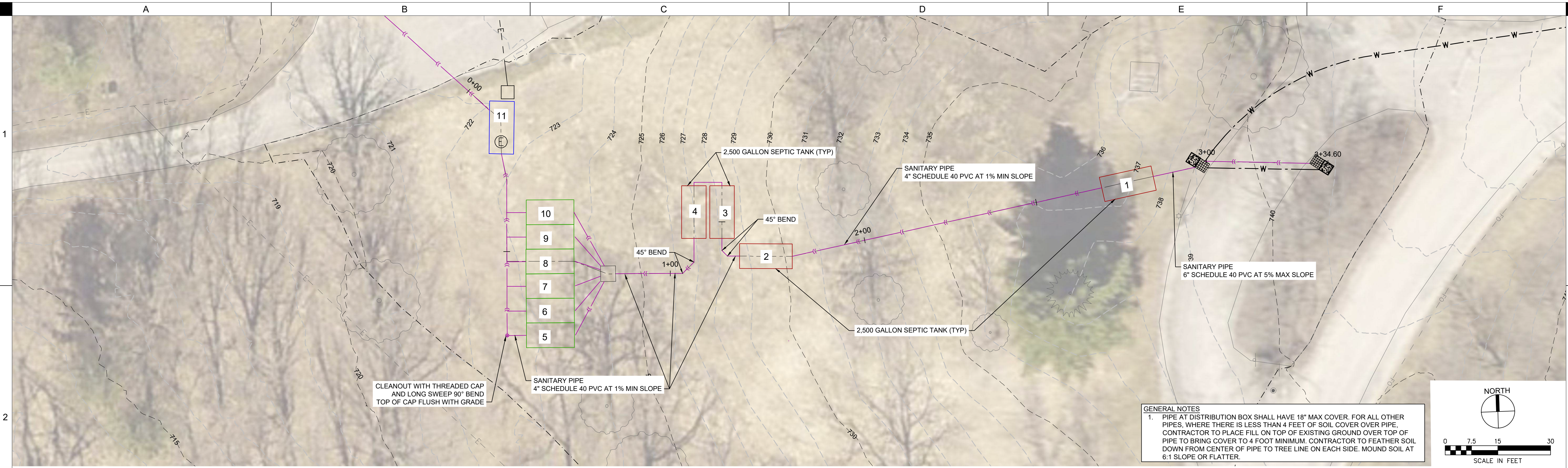
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SOIL BED PROFILE VIEW



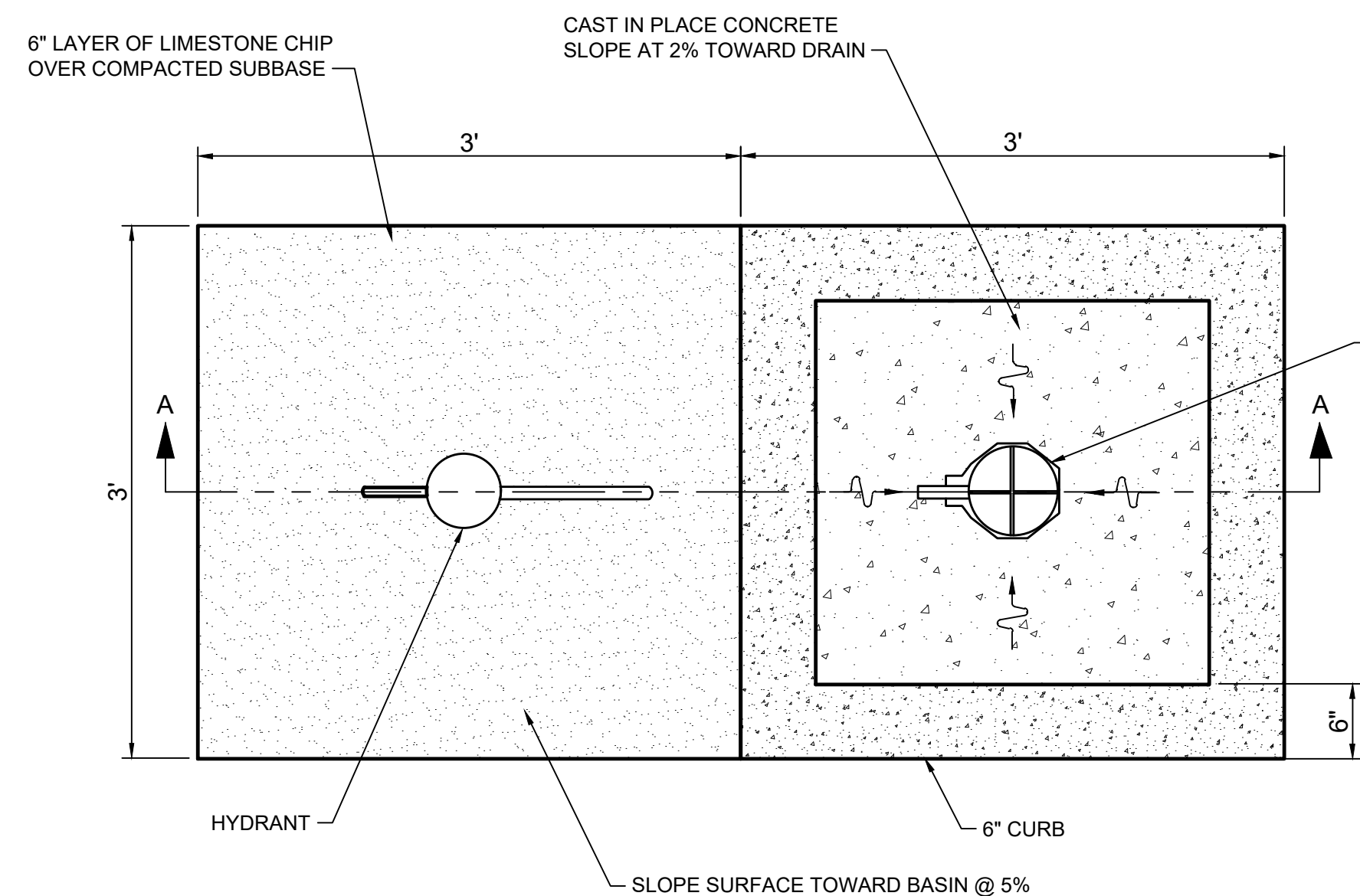


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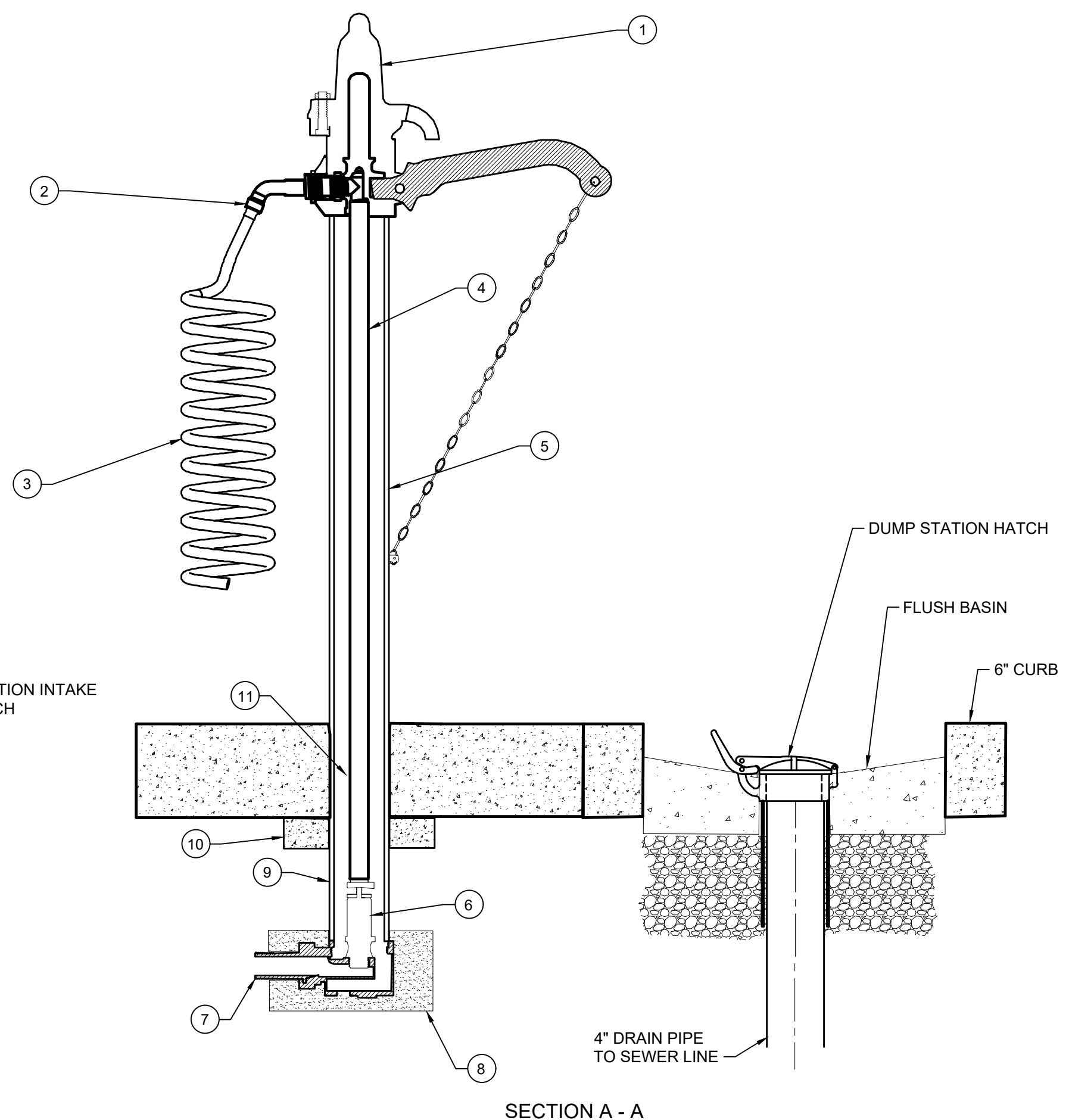
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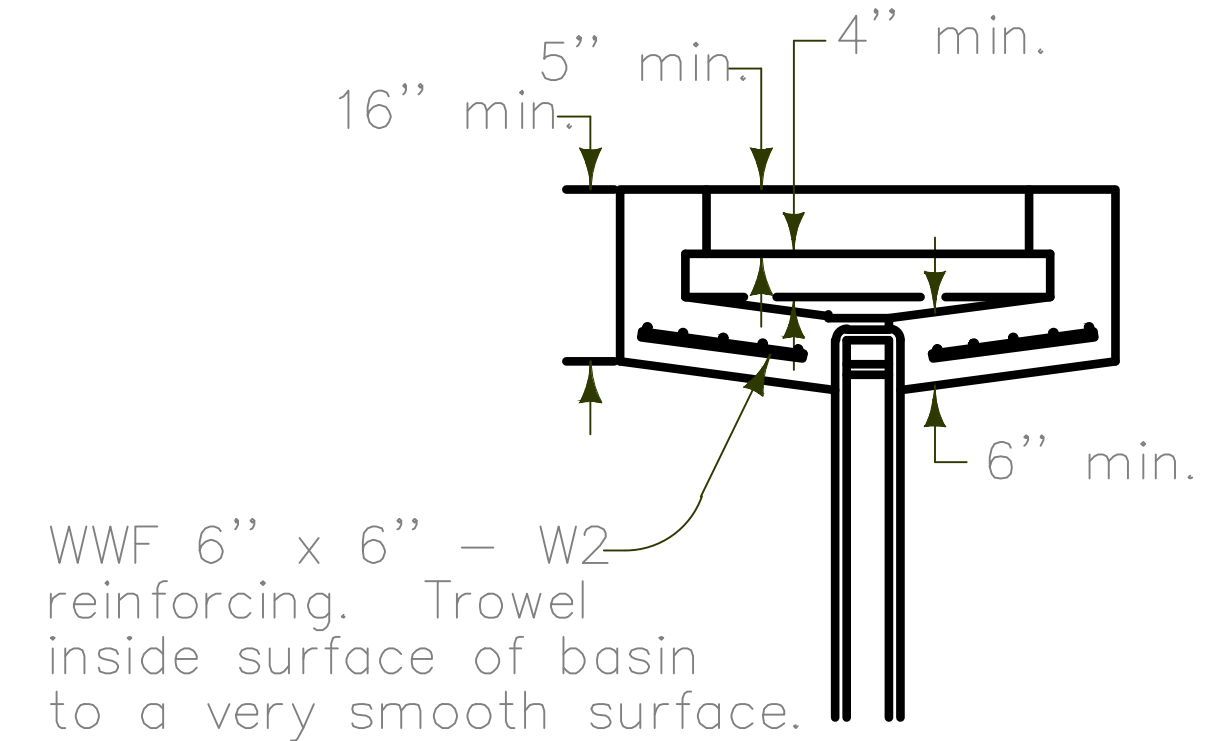
- DUMP STATION NOTES:**
- INSTALL HYDRANTS THAT ARE A COMBINATION FREEZELESS AND STANDARD OPERATING UNITS OR FREEZELESS AND SELF-CLOSING (AS DESIGNATED ON THE PLANS), OF A DESIGN AND CONSTRUCTION APPROVED BY THE ENGINEER AND EQUIPPED WITH APPROVED MODEL ACCESSORY ATTACHMENT AS INDICATED. INSTALL RISER PIPE FOR HYDRANTS THAT IS ONE INCH I.D. GALVANIZED WATER PIPE.
 - AFTER THE WATER LINE (TO THE LAST HYDRANT ON THE LINE) HAS BEEN PLACED AND INSPECTED, TEST THE LINE UNDER 100 POUNDS PER SQUARE INCH OF AIR PRESSURE WITH SOAP AND WATER (OR OTHER PROVEN MEANS) TO ENSURE THE LINE IS FREE OF LEAKS. MAINTAIN SUCH PRESSURE FOR 24 HOURS. UPON SUCCESSFUL COMPLETION OF INSPECTION AND TESTING, RETURN EXCAVATED MATERIAL TO THE TRENCH AND TAMP.
 - DETAILS SHOWN FOR HATCH COVER ARE TYPICAL. INSTALL A SELF-CLOSING CAST BRONZE TYPE OF A DESIGN AND CONSTRUCTION APPROVED BY THE ENGINEER AND WITH A HANDLE SHAPED TO ENSURE SELF-CLOSING FEATURE.



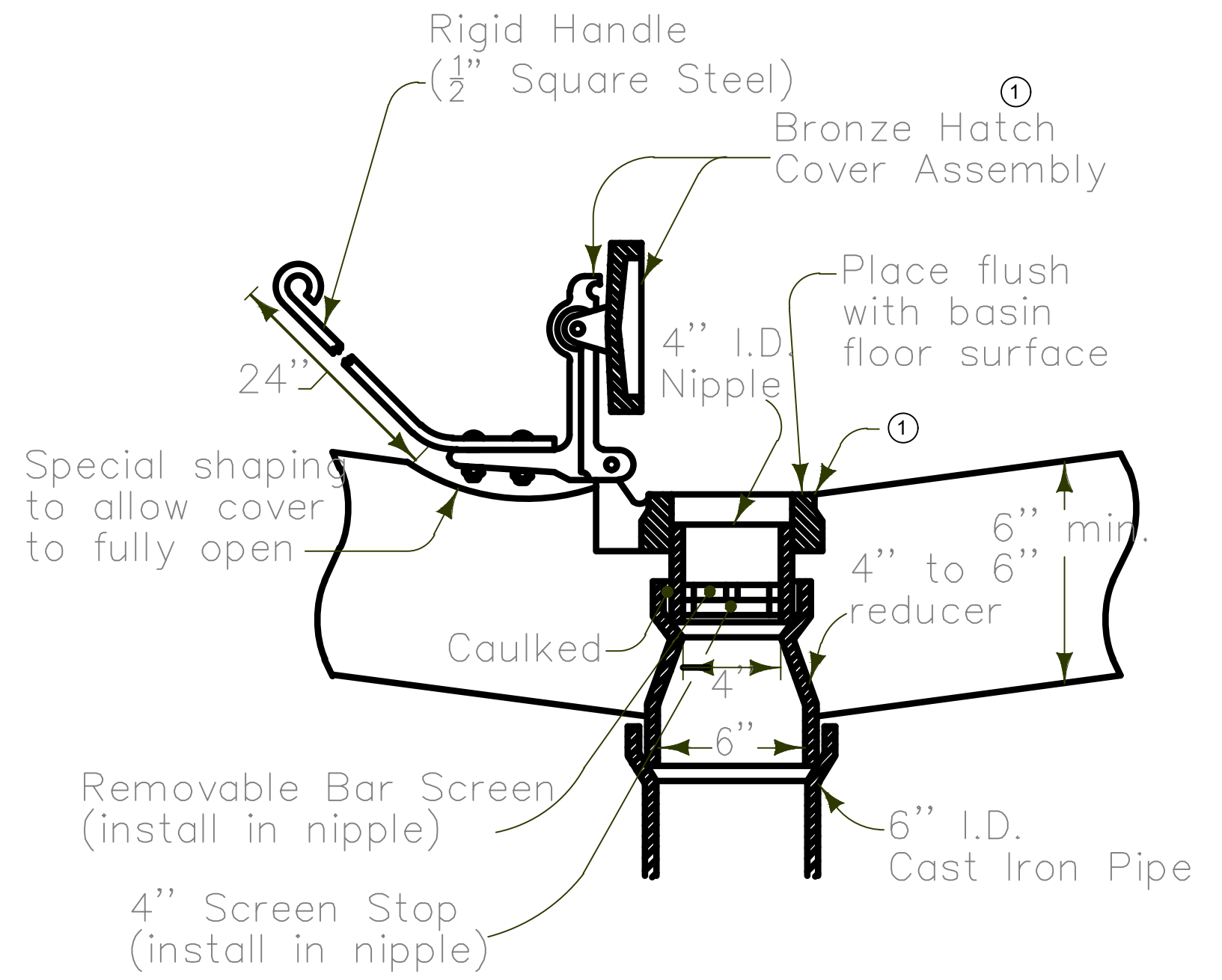
1 DUMP STATION DETAIL
NOT TO SCALE



- HYDRANT NOTES**
- HYDRANT TO BE MURDOCK POST HYDRANT M-275-RV OR ROMORT MODEL 5400 OR APPROVED EQUAL.
 - 3/4" HOSE THREAD AND BRASS NOZZLE.
 - COILED HOSE
 - INNER SUPPLY PIPE.
 - PVC RISER
 - VALVE
 - 3/4" MALE NPT BRASS CONNECTION
 - 12" MINIMUM POROUS BACKFILL
 - POSITION STANDPIPE AND RISER SO THAT NO DAMAGE WILL RESULT TO THE NORMAL OPERATION OF WATER LINES AND DRAIN TILE LOCATED IN THE IMMEDIATE VICINITY.
 - BLOCK STANDPIPE TO PREVENT CONCRETE FROM ENTERING PIPE DURING CONSTRUCTION OF SLAB.
 - ENSURE INSIDE OF STANDPIPE IS VOID OF MATERIAL.



2 FLUSH BASIN
NOT TO SCALE



- HATCH NOTES**
- 4" CAST IRON THREADED BASE WITH BRONZE COVER AND HANDLE AND PROVISIONS FOR OPW 269 SANITARY TANK HATCH OR APPROVED EQUIVALENT

3 DUMP STATION HATCH
NOT TO SCALE

PUMP NOTES:

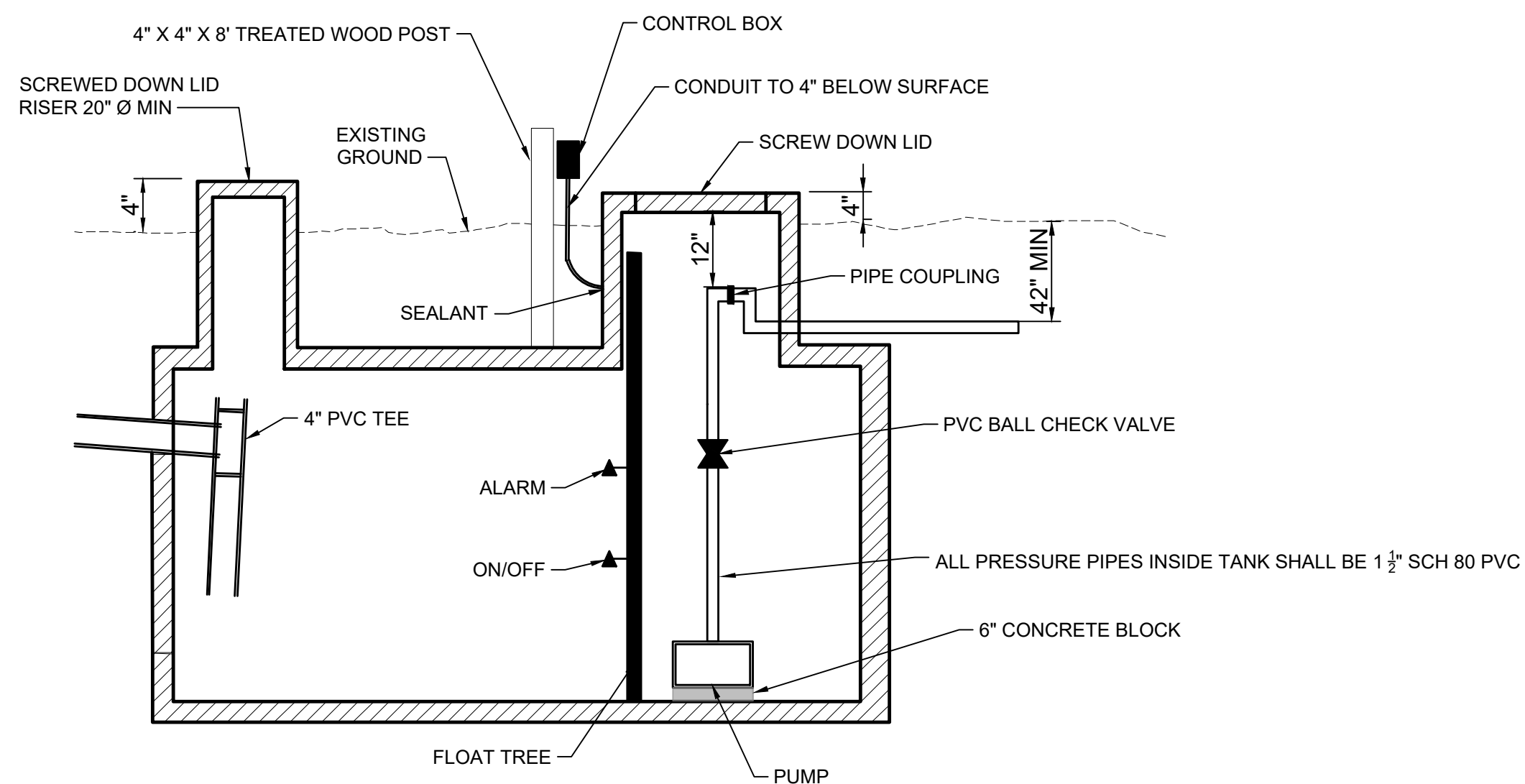
- 1. PUMP: LIBERTY FLH61M-2, 6/10 HP, 115 V, SINGLE PHASE FLA 12
- 2. VOLTAGE SUPPLY - PUMP: 115 VAC
- 3. CONTROL/ALARM: 115 VAC 60 HZ 1Ø
- 4. ENCLOSURE: 12" X 10" X 6" (30.5 X 25.4 X 15.2 CM)
- 5. NEMA 4X ULTRAVIOLET STABILIZED THERMOPLASTIC RATED FOR INDOOR/OUTDOOR USE WITH MOUNTING FEET
- 6. INNER DOOR: MOLDED THERMOPLASTIC
- 7. LOCKING LATCHES (2): STAINLESS STEEL, PADLOCKABLE
- 8. FLOAT CONTROL VOLTAGE: 115 VAC
- 9. MOTOR STARTER: MAGNETIC MOTOR CONTACTOR
- 10. PUMP AMPS: 12 AMPS
- 11. ALARM HORN: 83 - 85 DECIBEL RATING
- 12. FLASHING RED LED ALARM LIGHT 360°
- 13. WITH "DIGITAL INTERFACE BOARD" IB

CONTROL BOX NOTES:

- 1. CSI CONTROLS, RK SERIES SINGLE PHASE, SIMPLEX CONTROL PANEL.
- 2. 2 FLOATS WITH ENOUGH CABLE TO REMOVE FLOAT TREE WITHOUT DISCONNECTING ANY CABLES.

FLOATS:

- 1. "OFF" SET AT 3" ABOVE TOP OF PUMP
- 2. "ON" SET AT 125 GALLONS ABOVE "OFF"
- 3. ALARM SET AT 10 INCHES ABOVE ON



1 PUMP TANK #11
NOT TO SCALE

PUMP NOTES:

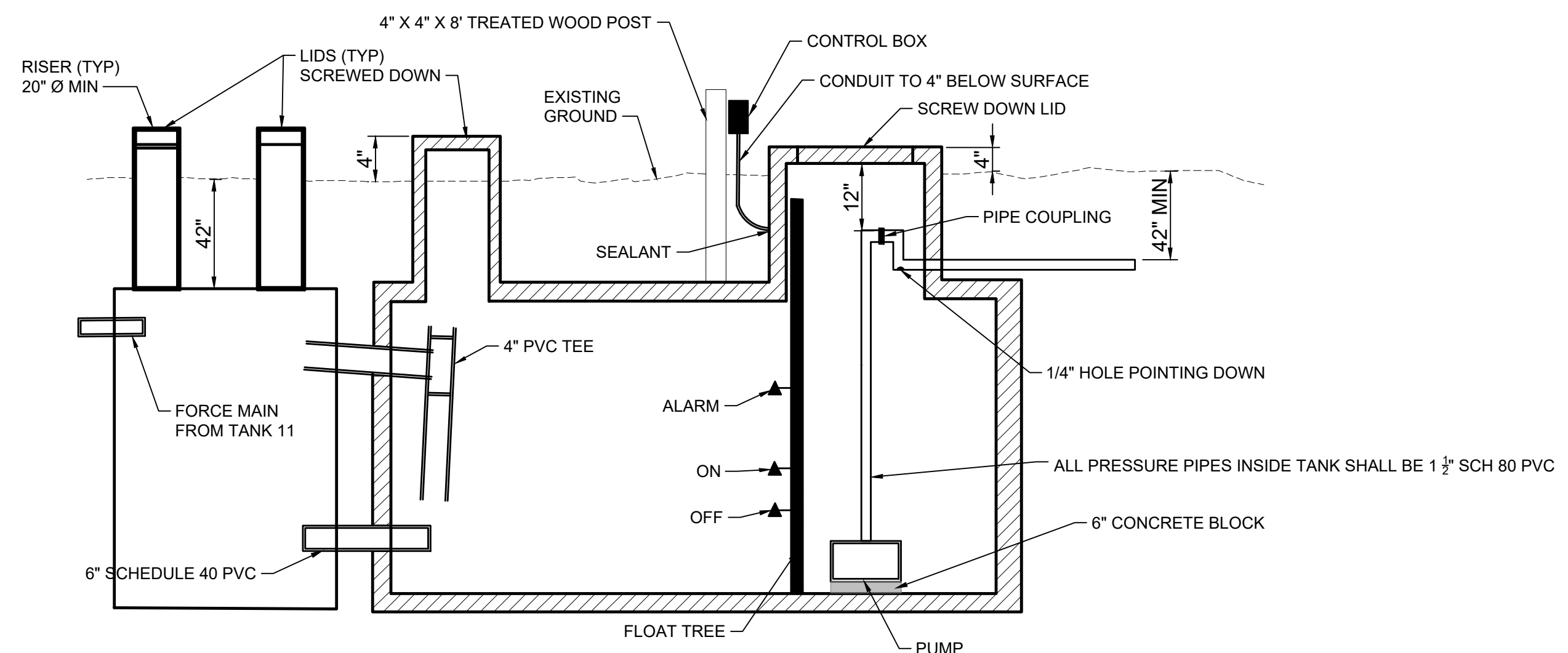
- 1. PUMP: LIBERTY FLH61M-2, 6/10 HP, 115 V, SINGLE PHASE FLA 12
- 2. VOLTAGE SUPPLY - PUMP: 115 VAC
- 3. CONTROL/ALARM: 115 VAC 60 HZ 1Ø
- 4. ENCLOSURE: 12" X 10" X 6"
- 5. NEMA 4X ULTRAVIOLET STABILIZED THERMOPLASTIC RATED FOR INDOOR/OUTDOOR USE WITH MOUNTING FEET
- 6. INNER DOOR: MOLDED THERMOPLASTIC
- 7. LOCKING LATCHES (2): STAINLESS STEEL, PADLOCKABLE
- 8. FLOAT CONTROL VOLTAGE: 115 VAC
- 9. MOTOR STARTER: MAGNETIC MOTOR CONTACTOR
- 10. PUMP AMPS: 12 AMPS
- 11. ALARM HORN: 83 - 85 DECIBEL RATING
- 12. FLASHING RED LED ALARM LIGHT 360°

CONTROL BOX NOTES:

- 1. CSI CONTROLS, RK SERIES SINGLE PHASE, SIMPLEX CONTROL PANEL WITH TIME DOSING DIB (IBTD).
- 2. 3 FLOATS WITH ENOUGH CABLE TO REMOVE FLOAT TREE WITHOUT DISCONNECTING ANY CABLES.

FLOATS:

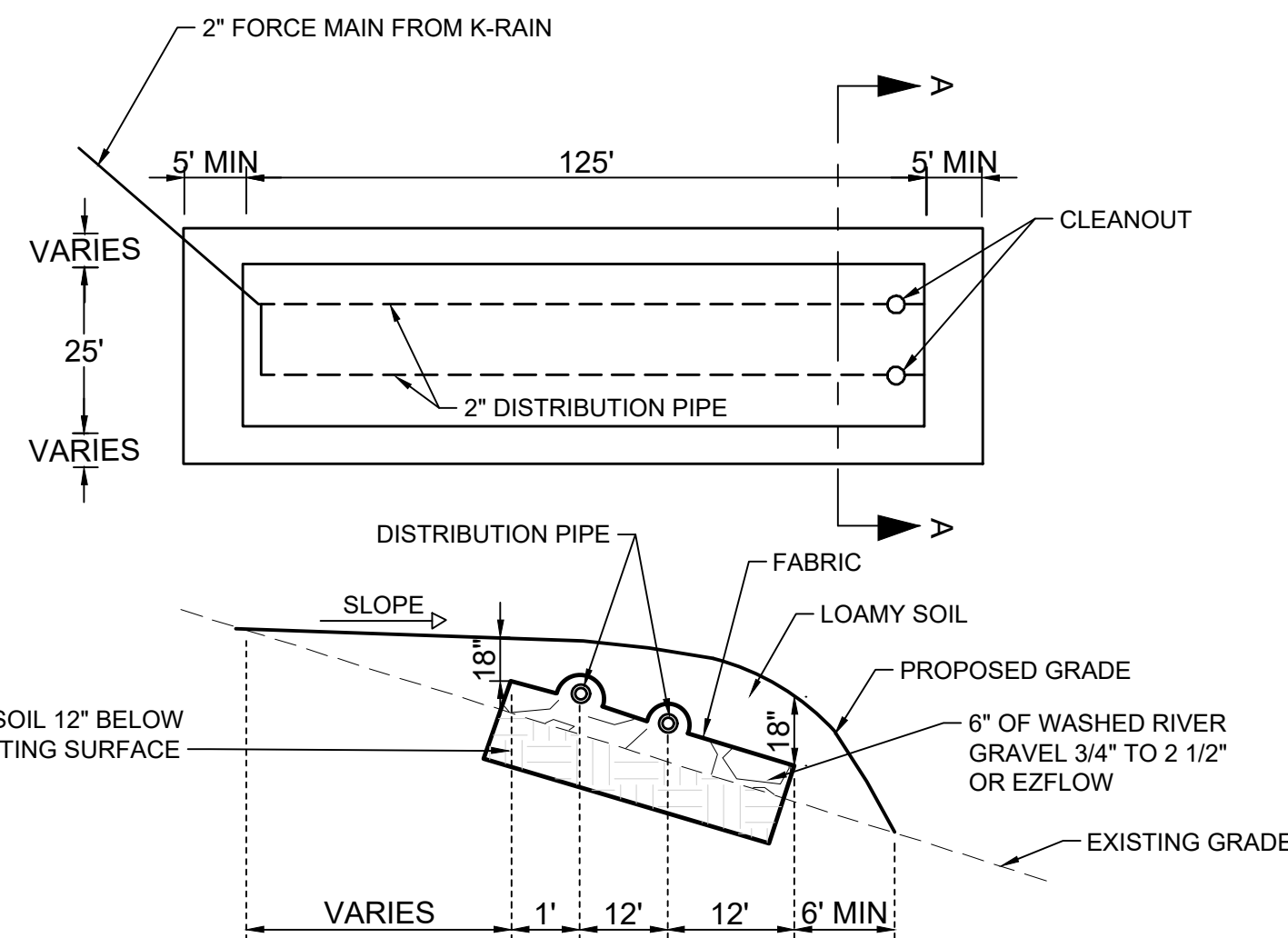
- 1. "OFF" SET AT 3" ABOVE TOP OF PUMP
- 2. "ON" TIMER SET AT 110 GALLONS ABOVE OFF FLOAT (TIMER SET AT 2.5 MINUTES ON, 27 MINUTES OFF)
- 3. ALARM SET AT 12 INCHES BELOW INLET



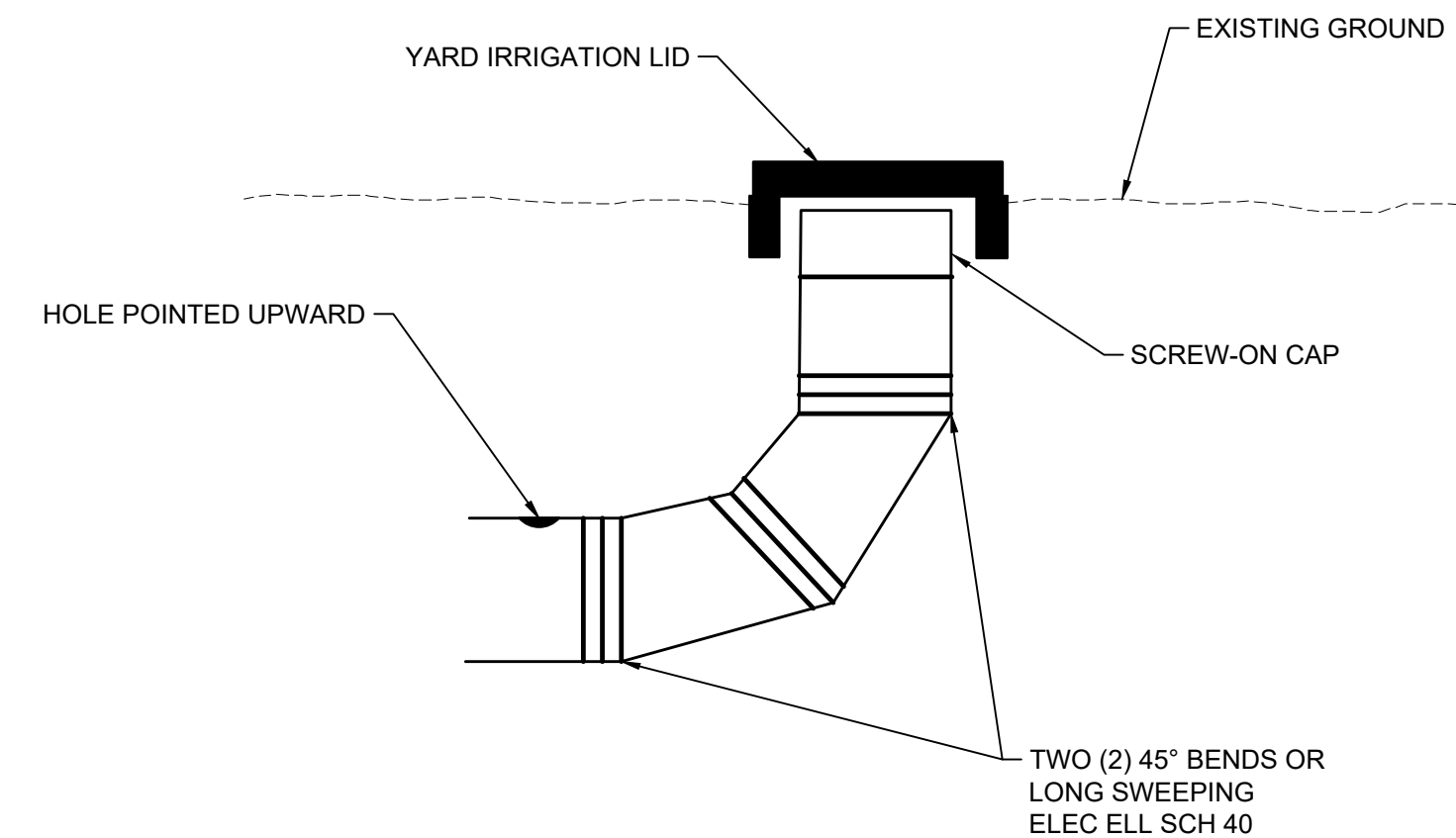
2 PUMP TANKS #12 AND #13
NOT TO SCALE

SOIL BED NOTES:

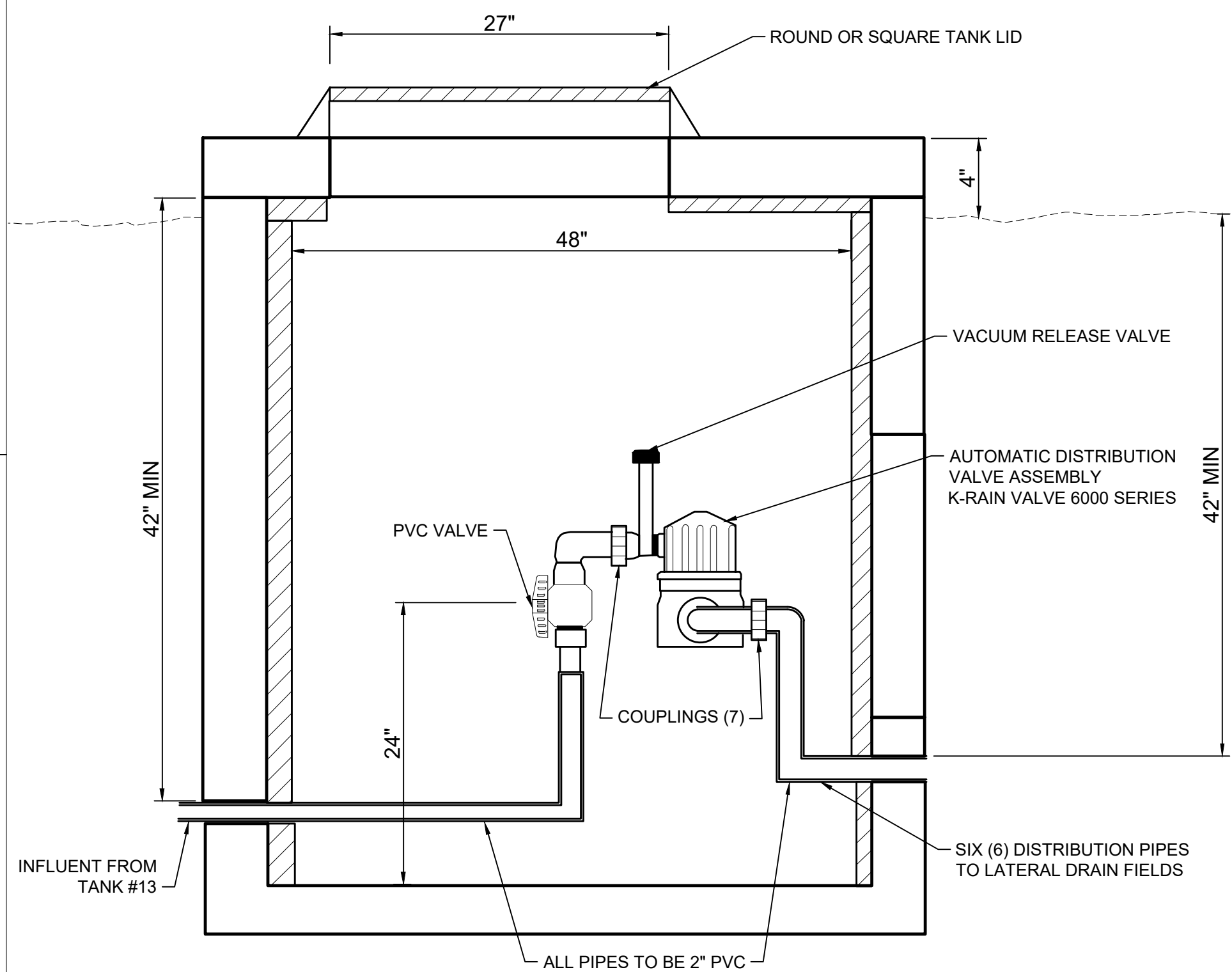
- 1. 2" DISTRIBUTION PIPE SHALL HAVE 3/16" HOLES AT 60" ON CENTER.
- 2. POINT LAST HOLE UPWARD, AND POINT ALL OTHER HOLES DOWNWARD.



4 DRAIN FIELD SOIL BEDS
NOT TO SCALE

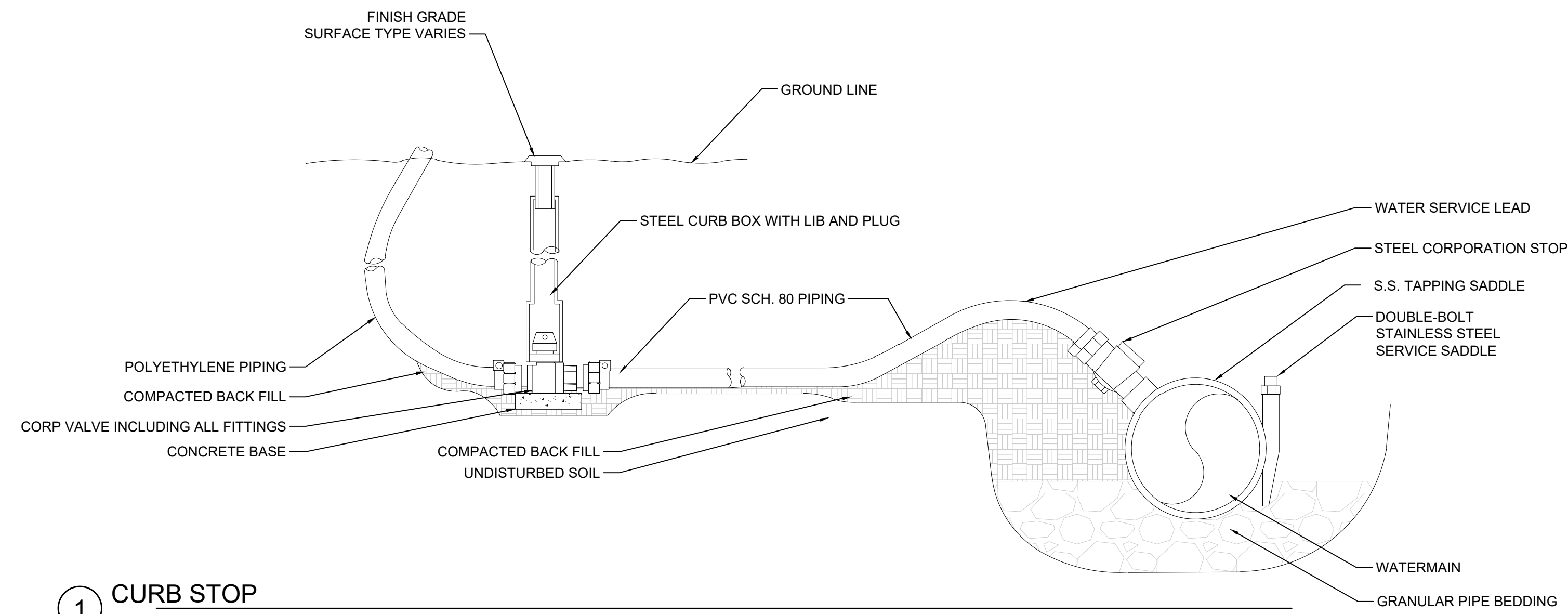


5 DRAIN FIELD SOIL BED CLEANOUT
NOT TO SCALE

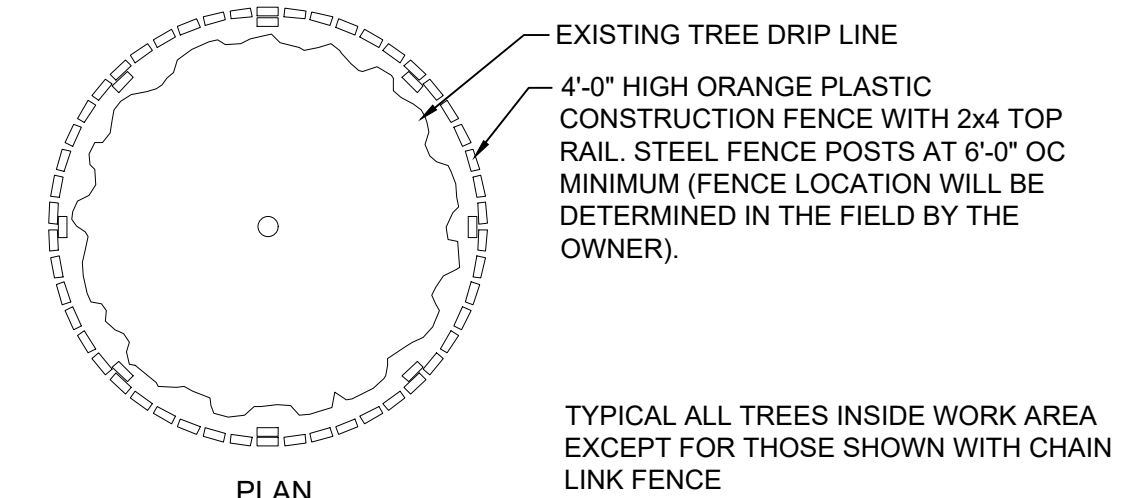
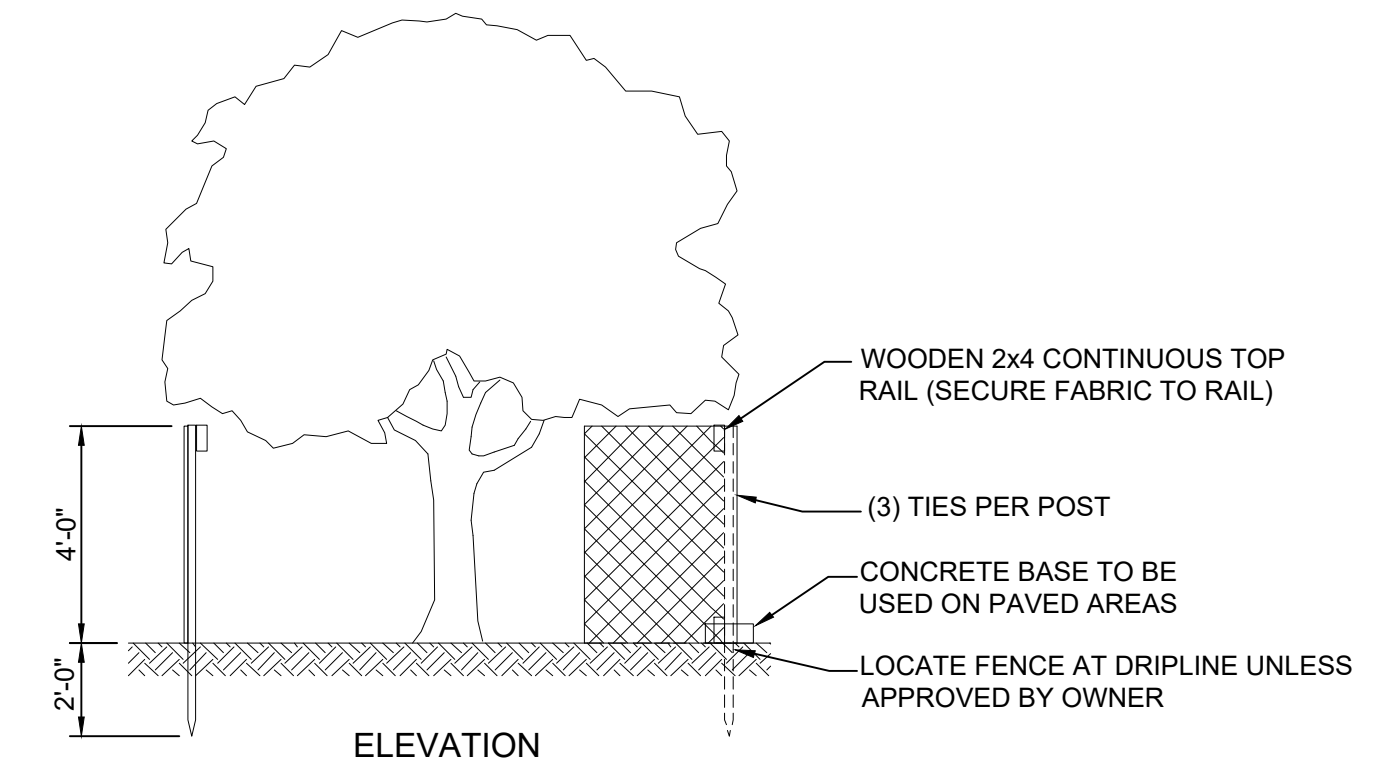


3 DISTRIBUTION TANK WITH K-RAIN VALVE
NOT TO SCALE

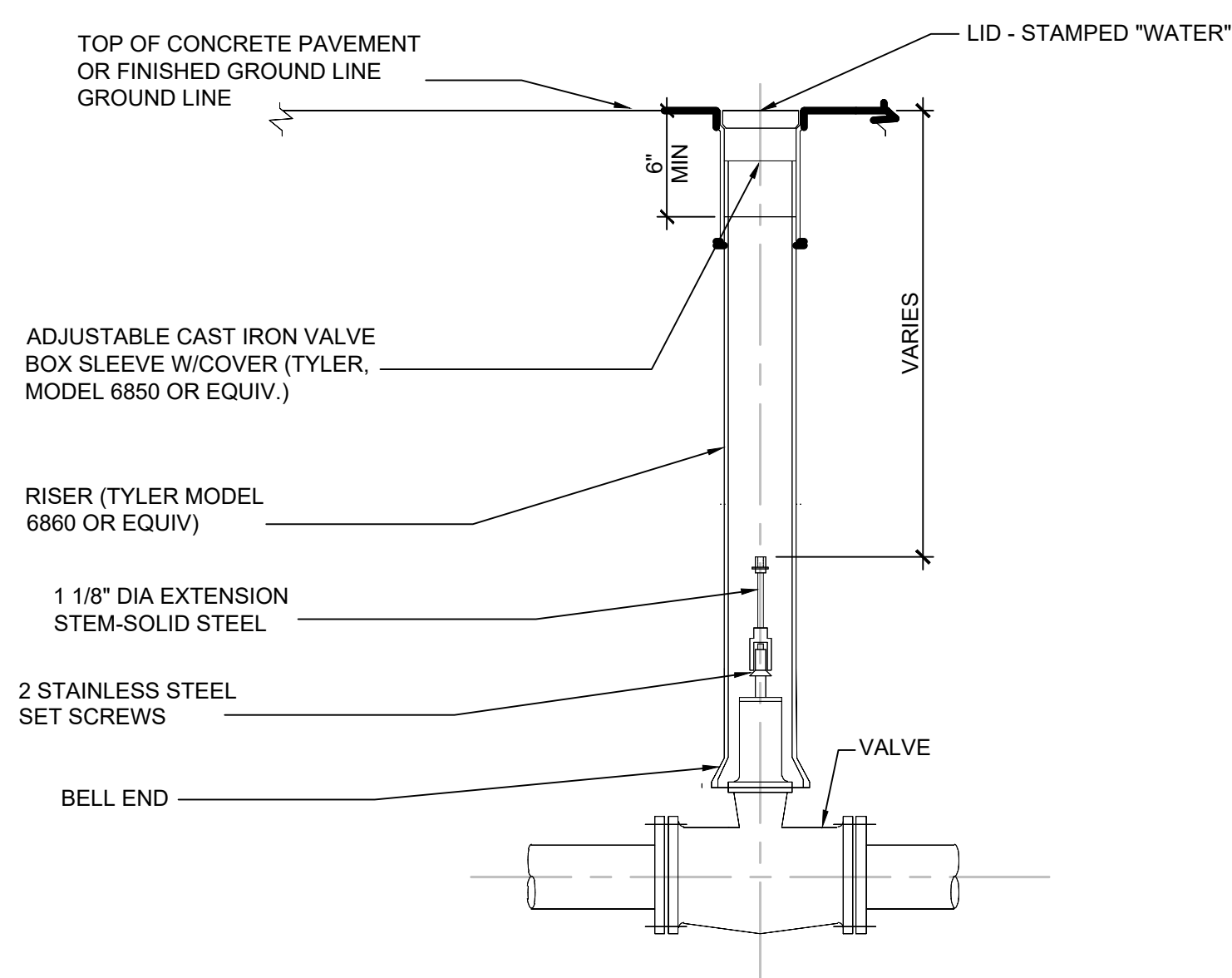
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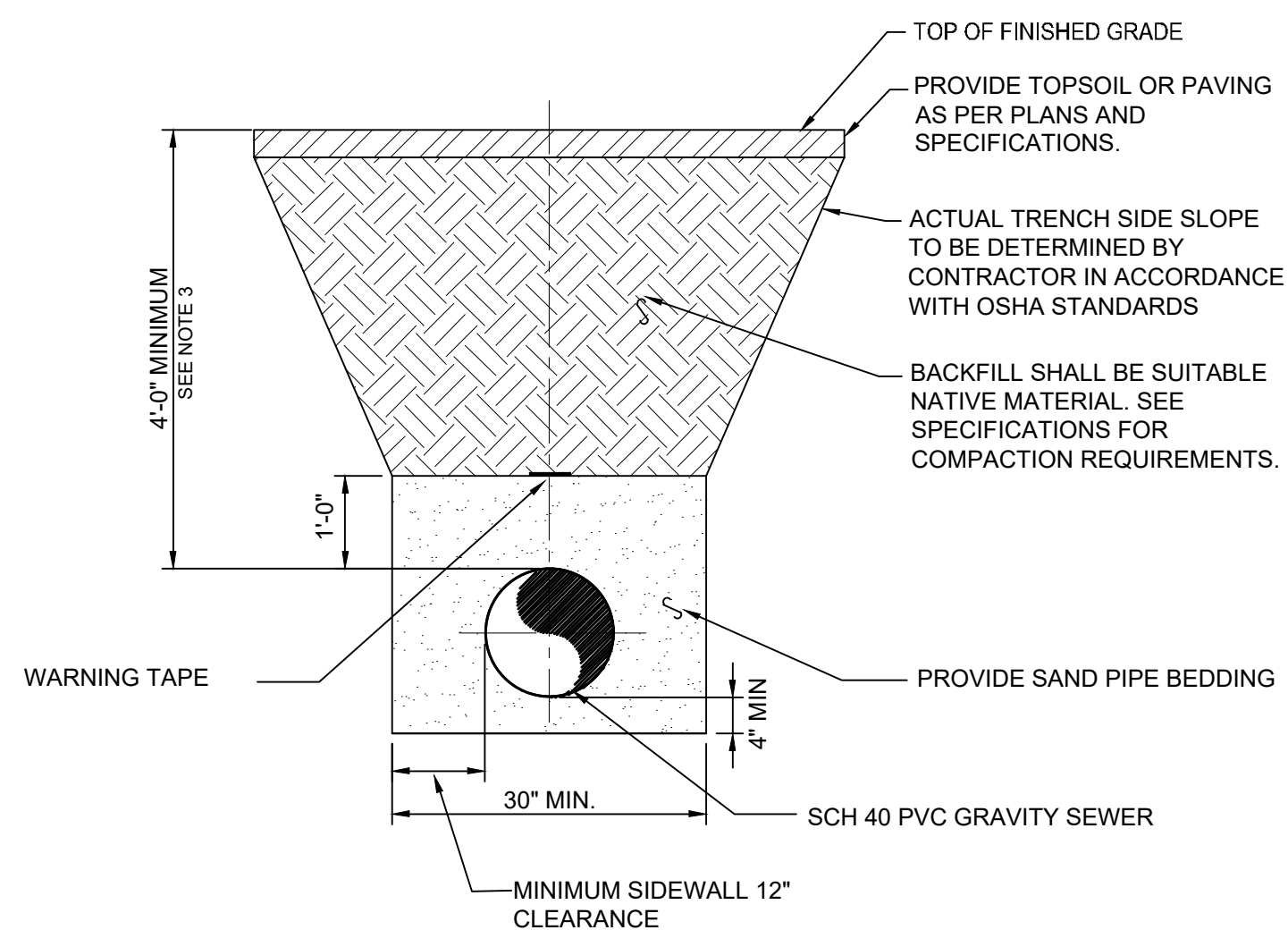
1 CURB STOP
NOT TO SCALE



2 TREE PROTECTION FENCE LAYOUT
NOT TO SCALE



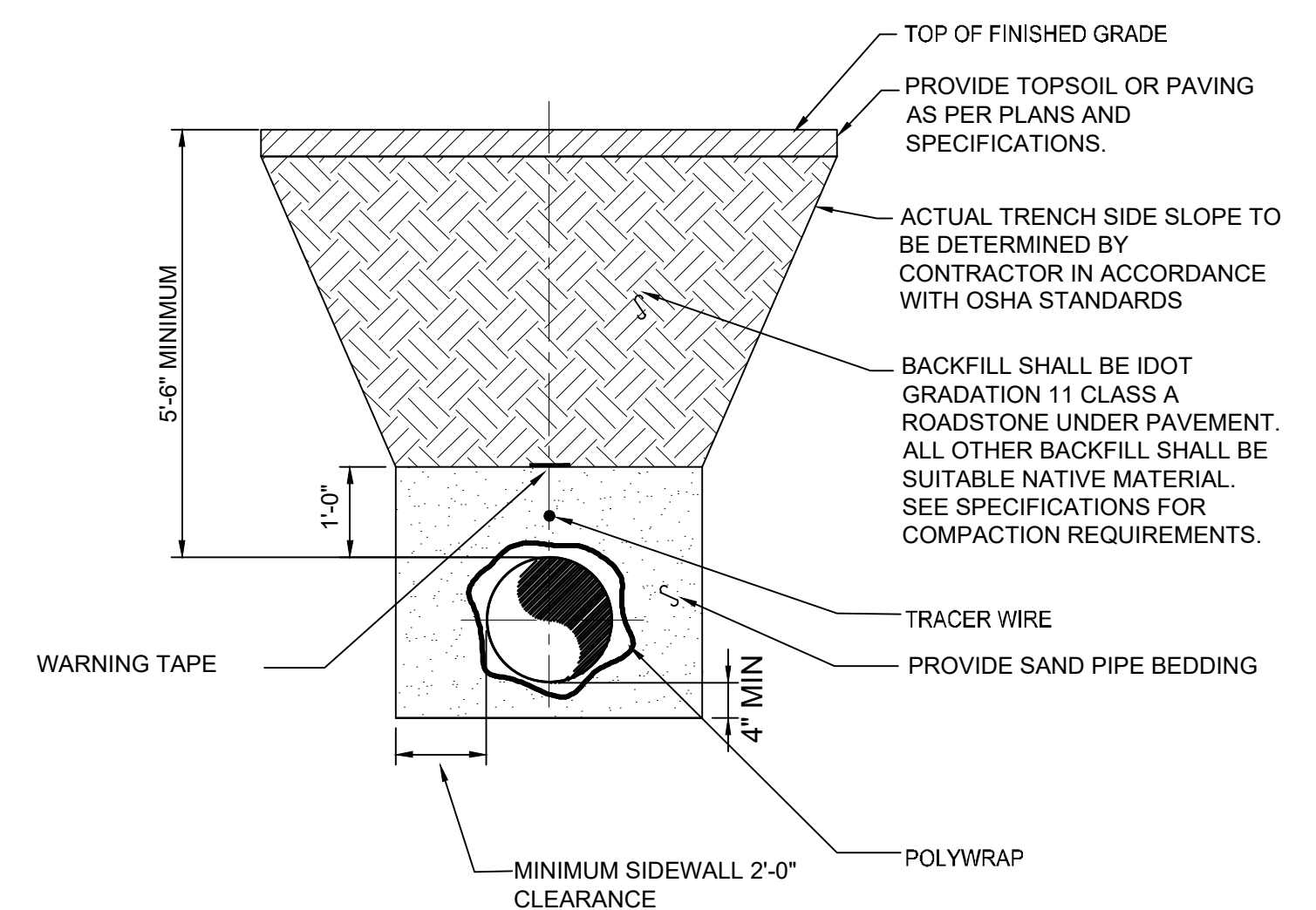
3 VALVE BOX
NOT TO SCALE



NOTE:

- GRAVITY SEWER MAINS SHALL BE SEPARATED FROM WATER MAINS BY A HORIZONTAL DISTANCE OF AT LEAST 10 FEET UNLESS:
 - THE TOP OF A SEWER MAIN IS AT LEAST 18 INCHES BELOW THE BOTTOM OF THE WATER MAIN, AND,
 - THE SEWER IS PLACED IN A SEPARATE TRENCH OR IN THE SAME TRENCH ON A BENCH OF UNDISTURBED EARTH AT A MINIMUM HORIZONTAL SEPARATION OF 3 FEET FROM THE WATER MAIN.

4 TYPICAL GRAVITY SEWER PIPE EMBEDMENT AND INSTALLATION DETAIL
NOT TO SCALE



5 TYPICAL WATER PIPE EMBEDMENT AND INSTALLATION DETAIL
NOT TO SCALE

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