

BUCKS ROAD LIFT STATION (LS-21) REHABILITATION

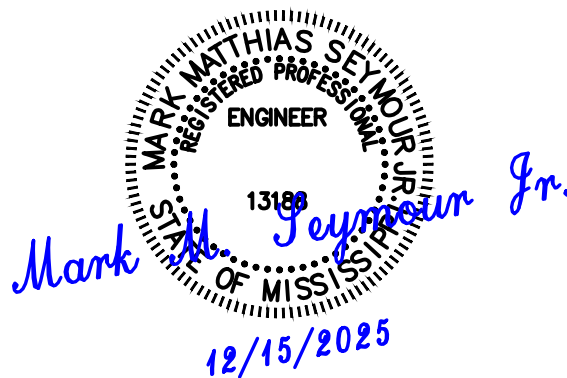
CITY of GAUTIER, MISSISSIPPI




GAUTIER, JACKSON COUNTY, MS
VICINITY MAP

CITY OF GAUTIER - MAYOR AND CITY COUNCIL

MAYOR	CASEY VAUGHAN
COUNCILMAN AT-LARGE	ERIC MINOR
WARD 1	CAMERON B. GEORGE
WARD 2	RICHARD "DJ" JACKSON
WARD 3	KAY C. JAMISON
WARD 4	LORENZO L. FULLER, SR.
WARD 5	DANTE ELBIN
CITY MANAGER	CARLOS MOULDS



REVISION REV 0		TITLE SHEET
DRAWN M. KIRKLAND		
CHECKED M. KIRKLAND		
APPROVED M. SEYMOUR		
DATE 12/01/2025		
BUCKS ROAD LIFT STATION (LS-21) REHABILITATION CITY OF GAUTIER		
925 TOMMY MUNRO DRIVE SUITE G BILOXI, MS 39532 (228) 385-2350 se@seymoureng.com		
 SEYMOUR ENGINEERING		
JOB/PROJECT NUMBER 23-066.05.03		
SHEET T1.0		

GENERAL NOTES :

1. SITE IS LOCATED IN THE CITY OF GAUTIER, JACKSON COUNTY, MISSISSIPPI.
2. ALL CONSTRUCTION SHALL CONFORM TO THE CITY OF GAUTIER STANDARDS AND SPECIFICATIONS.
3. **ANY ITEM OF WORK SPECIFICALLY CALLED FOR IN THE PLANS OR CONTRACT DOCUMENTS AND NOT INCLUDED FOR PAYMENT IN A SEPARATE BID ITEM SHALL BE CONSIDERED AS AN ABSORBED ITEM AND SHALL BE PERFORMED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER.**
4. ALL CONCRETE SHALL BE CLASS "B".
5. SILT BARRIERS AND OTHER EROSION CONTROL MEASURES SHALL BE PLACED AS SHOWN AND OR AS DIRECTED BY THE PROJECT ENGINEER OR INSPECTOR.
6. CONTRACTOR IS RESPONSIBLE FOR ENSURING THAT ALL PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCEMENT OF PROJECT WORK.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO WORK ALL APPLICABLE DRAWINGS AND APPROPRIATE SPECIFICATIONS AS A UNIT. ANY OMISSIONS, DELETIONS, OR CONFLICTS ARISING AS A RESULT OF FAILURE TO INCORPORATE ALL DRAWINGS AND SPECIFICATIONS WHICH APPLY SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER AND OR ENGINEER.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND ELEVATIONS OF EXISTING AND PROPOSED STRUCTURES PRIOR TO CONSTRUCTION.
9. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 19mm OR 0.75in.
10. FINAL GRADES OF DRAINAGE STRUCTURE GRATES AND DRAINAGE COVERS SHALL BE DETERMINED IN THE FIELD, UNLESS NOTED OTHERWISE IN CONSTRUCTION PLANS.
11. CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY IN ORDER TO PROTECT PRIVATE PROPERTY.
12. ALL TEMPORARY CONSTRUCTION EASEMENTS AND RIGHT-OF-ENTRY AGREEMENTS WILL BE ACQUIRED BY THE CITY OF GAUTIER OR A CITY REPRESENTATIVE.
13. CONTRACTOR SHALL RELOCATE ANY MAILBOXES NECESSARY TO COMPLETE PROJECT. ANY DAMAGED MAILBOXES SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
14. CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER OR HIS REPRESENTATIVE PRIOR TO COMMENCEMENT OF ANY WORK ON THIS PROJECT, IF ANY TRAFFIC WILL BE IMPACTED.
15. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THROUGH AND LOCAL TRAFFIC IN ACCORDANCE WITH THE TRAFFIC CONTROL PLAN AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION.
16. THE LOCATION AND SPACING OF SIGNS FOR TRAFFIC CONTROL MAY BE ADJUSTED TO SUIT FIELD CONDITIONS.
17. CONTRACTOR IS RESPONSIBLE FOR RELOCATING ANY SIGNS WHICH CONFLICT WITH CONSTRUCTION AT NO ADDITIONAL COST.
18. ALL MATERIALS AND CONSTRUCTION MUST CONFORM TO THE MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 1990 EDITION, AND ANY AMENDMENTS WHERE APPLICABLE, AND TO FHWA GUIDELINES AND SPECIFICATIONS.
19. FITTINGS, RESTRAINTS, APPURTENANCES, ETC. NECESSARY TO RELOCATE EXISTING SEWER/WATER SERVICE LINES FROM THE MAIN TO A RESIDENT OR BUILDING SHALL BE INCLUDED IN THE COST OF INSTALLING THE PIPE.
20. ALL EXPOSED GROUND SURFACES WITHIN THE LIMITS OF CONSTRUCTION SHALL BE HYDRO-SEEDED, FERTILIZED AND WATERED.
21. IF BUSHES, TREES, SHRUBS OR ANY OTHER PHYSICAL APPURTENANCES LOCATED WITHIN THE PROJECT AREA SHOWN ON THE PLANS ARE DAMAGED AS A RESULT OF CONSTRUCTION OPERATIONS, THE APPURTENANCES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION, OR REPLACE WITH ANOTHER APPURTENANCE OF EQUAL OR BETTER CONDITION. NO SEPARATE PAYMENT SHALL BE MADE FOR SUCH WORK.
22. CONTRACTOR SHALL RELOCATE WATER AND SEWER MAINS IN CONFLICT WITH THE PROPOSED CONSTRUCTION. UTILITY POLES IN CONFLICT WITH PROPOSED CONSTRUCTION ARE TO BE RELOCATED BY OTHERS, AS INDICATED IN PLANS. THIS WORK WILL COMMENCE WHEN THE CONTRACT IS AWARDED AND WILL RUN CONCURRENT WITH CONSTRUCTION. THE CONTRACTOR SHALL COOPERATE WITH THE UTILITY COMPANIES TO ENSURE THAT THIS WORK IS PERFORMED IN A TIMELY MANNER.
23. PERMANENT SIGNS SHOWN ON THE STRIPING DETAILS ARE TO BE INSTALLED BY THE CONTRACTOR. PERMANENT SIGNS IN PLACE ARE TO BE RELOCATED, WITHIN R.O.W. AS NEEDED. NO SEPARATE PAY ITEM FOR RELOCATION OF EXISTING TRAFFIC SIGNS.
24. EXISTING PROPERTY CORNERS AND CITY OF GAUTIER BENCHMARKS LOCATED WITHIN EASEMENT (TEMPORARY AND PERMANENT) AND ON THE R.O.W. WHICH BECOME DISTURBED OR REMOVED DURING CONSTRUCTION SHALL BE RELOCATED AND REPLACED BY THE CONTRACTOR AS AN ABSORBED PAY ITEM OF WORK.
25. THE COST OF REMOVING EXISTING DRIVEWAY CULVERTS TO INSTALL NEW SEWER LINES SHALL BE INCLUDED IN THE UNIT COST OF INSTALLING NEW SEWER LINES.
26. CONTRACTOR SHALL VERIFY TOP ELEVATIONS OF ALL DRAINAGE AND SEWER STRUCTURES IN FIELD AND SET FLOW LINE INVERT ELEVATIONS TO REFLECT DESIGN INDICATED IN CONSTRUCTION PLANS.
27. THE REMOVAL AND PROPER DISPOSAL OF EXISTING DRAINAGE STRUCTURES IS AN ABSORBED ITEM OF WORK UNDER THIS CONTRACT.
28. CONTRACTOR SHALL ENSURE THAT ALL SIDE SLOPES ARE 2(H):1(V) MAXIMUM.
29. CONTRACTOR SHALL MAKE EVERY EFFORT TO PROTECT EACH UTILITY ENCOUNTERED AND COORDINATE ADJUSTMENTS, CONFLICTS AND/OR RELOCATIONS WITH UTILITY OWNERS.

GRADING AND DRAINAGE NOTES :

1. CONTRACTOR SHALL VERIFY TOP ELEVATIONS OF ALL DRAINAGE STRUCTURES IN FIELD AND SET FLOW LINE INVERT ELEVATIONS TO REFLECT DESIGN INDICATED IN CONSTRUCTION PLANS.
2. CUT OR FILL SLOPES SHOULD NOT BE STEEPER THAN 2(H):1(V).
3. ALL EXCAVATED UNPAVED AREAS SHALL BE RESTORED BY GRASSING IN ACCORDANCE WITH THE SPECIFICATIONS.

DEMOLITION NOTES :

1. CONTRACTOR SHALL REMOVE CONCRETE AND ASPHALT PAVEMENT WITHOUT INTERRUPTION TO BOTH LANES OF TRAFFIC. ONE LANE OF TRAFFIC SHALL REMAIN OPERATIONAL AT ALL TIMES. CONTRACTOR SHALL FOLLOW MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) CURRENT EDITION.
2. CONTRACTOR SHALL LOCATE AND IDENTIFY ALL EXISTING UTILITIES THAT ARE TO REMAIN AND PROTECT THEM FROM DAMAGE. CONTRACTOR SHALL COORDINATE DIRECTLY WITH THE UTILITY COMPANIES FOR PROPER IDENTIFICATION AND MARKING PRIOR TO ANY DEMOLITION ACTIVITIES.
3. DEMOLITION WORK OF EXISTING DRIVEWAYS SHALL REMAIN WITHIN THE R.O.W. LIMITS.
4. ALL TREES THAT ARE PROTECTED UNDER CITY ORDINANCE AND PRIOR TO REMOVAL, TRIMMING OR BEFORE POSSIBLE DAMAGE TO ANY TREES, CONTRACTOR IS TO INFORM THE PROJECT ENGINEER THAT HE HAS OBTAINED APPROPRIATE CITY TREE PERMITS. ALL DEBRIS REMOVED MUST BE DISPOSED OF IN ACCORDANCE TO LOCAL, STATE AND FEDERAL LAWS.
5. REPLACE ALL EXISTING DRIVE ENTRANCES UP TO THE R.O.W. LIMITS, AS INDICATED ON CONSTRUCTION PLANS. ALL EXPOSED AGGREGATE AND DECORATED DRIVE ENTRANCES ARE TO BE RESTORED TO THEIR ORIGINAL CONDITION. ALL EXISTING DIRT AND GRAVEL DRIVES ARE TO BE ASPHALT. ALL CONCRETE DRIVES ARE TO BE CONCRETE.
6. VARIATIONS TO CONDITIONS OR DISCREPANCIES IN ACTUAL FIELD CONDITIONS AS THEY APPLY TO THE DEMOLITION OR SITE DEVELOPMENT WORK MUST BE BROUGHT TO THE ENGINEER'S ATTENTION PRIOR TO THE COMMENCEMENT OF ANY SITE WORK.
7. CONTRACTOR MUST NOTIFY ALL UTILITY COMPANIES, FIRE MARSHALL AND PROJECT ENGINEER PRIOR TO INTERRUPTION OF ANY UTILITY SERVICE. NOTIFICATION MUST BE MADE PER THE PROJECT SPECIFICATIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH AND ADHERENCE TO EACH UTILITY COMPANY'S AND FIRE MARSHALL'S REGULATIONS REGARDING SERVICE INTERRUPTION.
8. CONTRACTOR MUST PROTECT ALL LANDSCAPING AND OTHER FEATURES DESIGNATED TO REMAIN AND REPLACE SUCH ITEMS IF DISTURBED DURING DEMOLITION.
9. CONTRACTOR SHALL CONDUCT ALL DEMOLITION OPERATIONS WITH MINIMUM INTERFERENCE TO PUBLIC AND OR PRIVATE ACCESSES AND FACILITIES.
10. DEPRESSIONS AND VOID AREAS CAUSED BY DEMOLITION WORK ARE TO BE FILLED TO SUBGRADE ELEVATION TO AVOID WATER PONDING.
11. ALL CONSTRUCTION AND OR DEMOLITION DEBRIS SHALL BE DISPOSED OF OFFSITE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE AND LOCAL REGULATIONS AT NO ADDITIONAL COST TO THE OWNER.
12. CONSTRUCTION PLANS MAY NOT SHOW ALL REQUIRED DEMOLITION. DEMOLITION CONTRACTOR SHALL CONDUCT A THOROUGH SITE INVESTIGATION AND INCLUDE ALL DEMOLITION WORK REGARDLESS OF WHETHER OR NOT IT IS SHOWN ON DRAWINGS.
13. VALVE BOXES MAY REQUIRE CHIPPING OR ALTERATIONS TO CONCRETE WALLS TO REPLACE VALVE BOXES. SEE PICTURES SHOWN THESE PLANS

SANITARY SEWER NOTES :

1. CONTRACTOR SHALL CONTACT THE CITY OF GAUTIER PUBLIC WORKS DEPARTMENT TO LOCATE EXISTING UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION AND INVERT ELEVATIONS OF WASTEWATER PIPE FOR CONNECTION TO EXISTING WASTEWATER SYSTEMS.
3. CONTRACTOR SHALL VERIFY TOP ELEVATIONS OF ALL SEWER STRUCTURES IN FIELD AND SET FLOW LINE INVERT ELEVATIONS TO REFLECT DESIGN INDICATED IN CONSTRUCTION PLANS.
4. ALL GRAVITY SEWER LINE MATERIAL SHALL BE SDR-26. ALL FORCE MAIN MATERIAL SHALL BE C-900 OR DUCTILE IRON PIPE.
5. SEWER PIPE SHALL BE LAID AT LEAST 10 (TEN) FEET HORIZONTALLY AND 18 (EIGHTEEN) INCHES VERTICALLY FROM ANY EXISTING OR PROPOSED WATER MAIN, WITH THE WATER MAIN ABOVE THE SEWER PIPE. SEWER CROSSING WATER MAINS SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATER MAIN JOINTS. WHERE A WATER MAIN CROSSES UNDER A SEWER, EITHER THE WATER MAIN OR THE SEWER SHOULD BE DUCTILE IRON OR SHALL BE ENCASED IN DUCTILE IRON OR CONCRETE FOR A MINIMUM OF ONE FULL JOINT LENGTH ON EACH SIDE OF THE CROSSING.
6. NOT ALL SEWER SERVICES WERE LOCATED; IT WILL BE THE CONTRACTORS RESPONSIBILITY TO LOCATE THESE LINES BEFORE MAIN LINE IS INSTALLED.
7. WATERLINE AND SERVICE LINES SHALL NOT BE INTERRUPTED AT ANY TIME. IF CONFLICT ARISES DURING CONSTRUCTION, THE CONTRACTOR SHALL CONTACT ENGINEER PRIOR TO PERFORMING ANY WORK IN CONFLICT AREA.
8. ALL CONTROL PANELS ARE TO BE PLACED AT THE SAME ELEVATION OR HIGHER WHEN REPLACING PANEL STANDS.

STORMWATER POLLUTION PREVENTION NOTES :

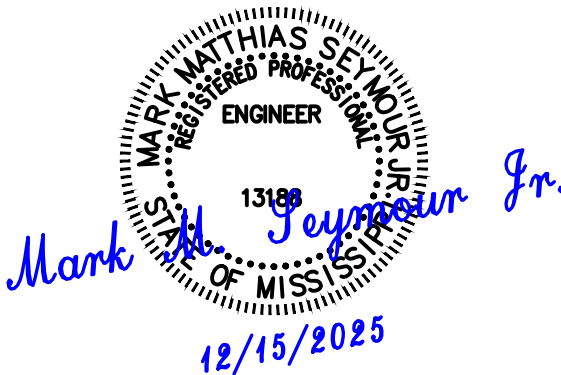
1. CONTRACTOR SHALL CONSTRUCT EROSION CONTROL MEASURES AND STORMWATER POLLUTION PREVENTION FACILITIES AS SHOWN ON CONSTRUCTION PLANS OR AS DIRECTED BY PROJECT ENGINEER, TO PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM EROSION AND SEDIMENTATION.
2. ALL EROSION AND SEDIMENTATION CONTROL MEASURES MUST BE MAINTAINED AT ALL TIMES AND ADHERE TO THE STANDARDS AND SPECIFICATIONS OF THE MISSISSIPPI "PLANNING AND DESIGN MANUAL FOR THE CONTROL OF EROSION, SEDIMENT, & STORMWATER."
3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PERFORM ALL ACTIVITIES UNDER THE PROVISIONS OF LOCAL, STATE AND FEDERAL LAWS ADMINISTERED BY THE ENVIRONMENTAL PROTECTION AGENCY.
4. EROSION CONTROL MEASURES WILL BE INSPECTED AT LEAST DAILY AND AFTER EACH RAIN, AND REPAIRED BY THE CONTRACTOR. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE. ALL COSTS TO IMPLEMENT ADDITIONAL EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. ALL COSTS SHALL BE INCLUDED IN CONTRACTOR'S BID.
5. THE CONTRACTOR SHALL ENSURE THAT NO SEDIMENT OR TRASH ENTERS THE RIVER. SUPPLEMENTAL BMPs, IN ADDITION TO WHAT IS CALLED OUT ON CONSTRUCTION PLANS MAY BE NECESSARY TO CONTROL THE CHANGING ON-SITE CONDITIONS AS CONSTRUCTION OCCURS.
6. HOUSEKEEPING PRACTICES: ALL EQUIPMENT MAINTENANCE AND REPAIR WILL BE DONE OFFSITE. THE CONTRACTOR WILL PLACE TRASH CANS/DUMPSTERS AT CONVENIENT LOCATIONS THROUGHOUT THE SITE AND WILL BE RESPONSIBLE FOR DUMPING THEM. PAINTS, SOLVENTS, FERTILIZERS, OR ANY OTHER POTENTIALLY TOXIC MATERIALS WILL NOT BE STORED ONSITE. PORTABLE SANITARY FACILITIES WILL BE AVAILABLE FOR USE BY CONSTRUCTION WORKERS.
7. MAINTENANCE PLAN: CHECK ALL DISTURBED AREAS, EROSION AND SEDIMENT CONTROLS AFTER EACH SIGNIFICANT RAINFALL BUT NOT LESS THAN ONCE PER WEEK. MAKE NEEDED REPAIRS WITHIN 24 HOURS. REMOVE INLET PROTECTION DEVICES AND SILT FENCES WHEN ACCUMULATED SEDIMENT HAS REACHED 50 PERCENT CAPACITY. REPLACE NON-FUNCTIONAL SILT FENCE AND OTHER MEASURES NOT WORKING CORRECTLY. MAINTAIN ALL VEGETIATED AREAS TO PROVIDE GROUND COVER. RESEED, FERTILIZE, AND MULCH AS NEEDED. TURN IN PAY REQUESTS, AFTER INSPECTION REPORT IS COMPLETED.

SHEET INDEX

Sheet Index	
Sheet No.	Sheet Title
T1.0	Title Sheet
G1.0	General Notes / Sheet Index
C1.0	Existing Conditions / Removal Plans
C1.1	Proposed Site Plan
C1.2	Lift Station Details (LS 21)
CD-1	Civil Details
CD-2	Civil Details (Cont.)
ECD-1	Erosion Control Details

DESIGN DATA AND PROJECT SCOPE :

- INSTALLATION OF NEW LIFT STATION WITH THE EXCEPTION OF A NEW WET WELL @ BUCKS RD LIFT STATION (LS-21)



REVISION
XX/XX/XXXX

DRAWN
M. KIRKLAND

CHECKED
M. KIRKLAND


APPROVED
M. SEYMOUR

DATE
12/01/2025

GENERAL NOTES / SHEET INDEX

BUCKS RD LIFT STATION (LS-21)
REHABILITATION
CITY OF GAUTIER

925 TOMMY MUNRO DRIVE
SUITE G
BLOXI, MS 39532
(228) 385-2350
se@seymoureng.com



SEYMOUR
ENGINEERING

JOB/PROJECT NUMBER
23-066.05.03

SHEET
G1.0



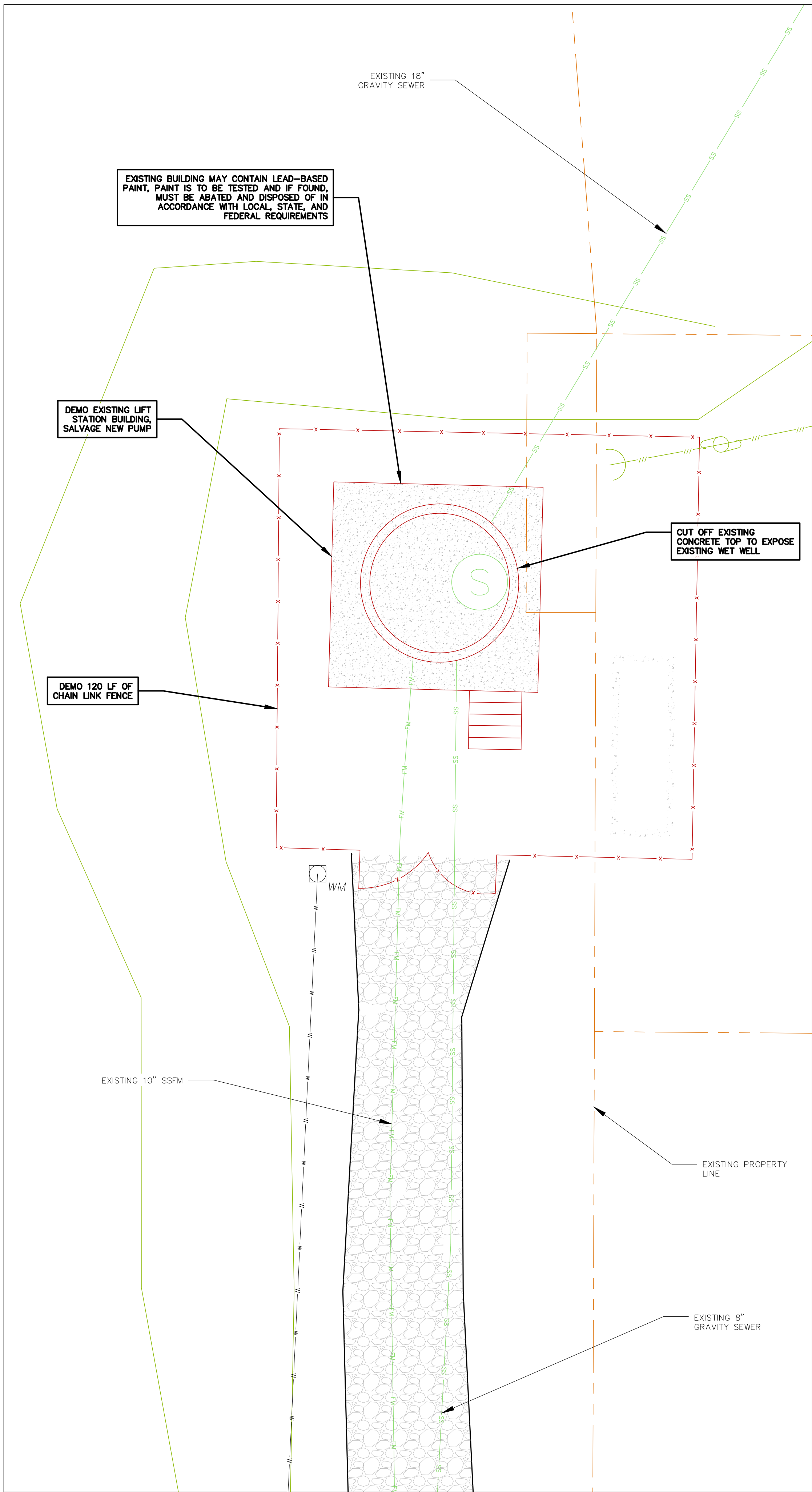
EXISTING LS21 LIFT STATION

SCALE: N/A



EXISTING LS21 LIFT STATION

SCALE: N/A



EXISTING LS21 DEMOLITION PLAN

SCALE: N/A

EXISTING LIFT STATION INFORMATION

LIFT STATION LOCATION: BUCKS ROAD

PUMP INFO: 2 x BALDOR 15 HP SELF PRIMING PUMPS

PUMP PARAMETERS: 15 HP, 1765 RPM, 1 1/2" DIA. IMPELLER

DESIGN POINT: 600 GPM @ 40 FEET TOTAL DYNAMIC HEAD

ELECTRICAL SERVICE A/V/P: 42 AMP, 230 VOLT, 3 PHASE

WET WELL DIAMETER: 108 INCHES

WET WELL DEPTH: 16.9 FEET

LIFT STATION IMPROVEMENTS

1. DEMO EXISTING LIFT STATION ASIDE FROM WET WELL
2. CUT TOP OFF OF EXISTING WET WELL




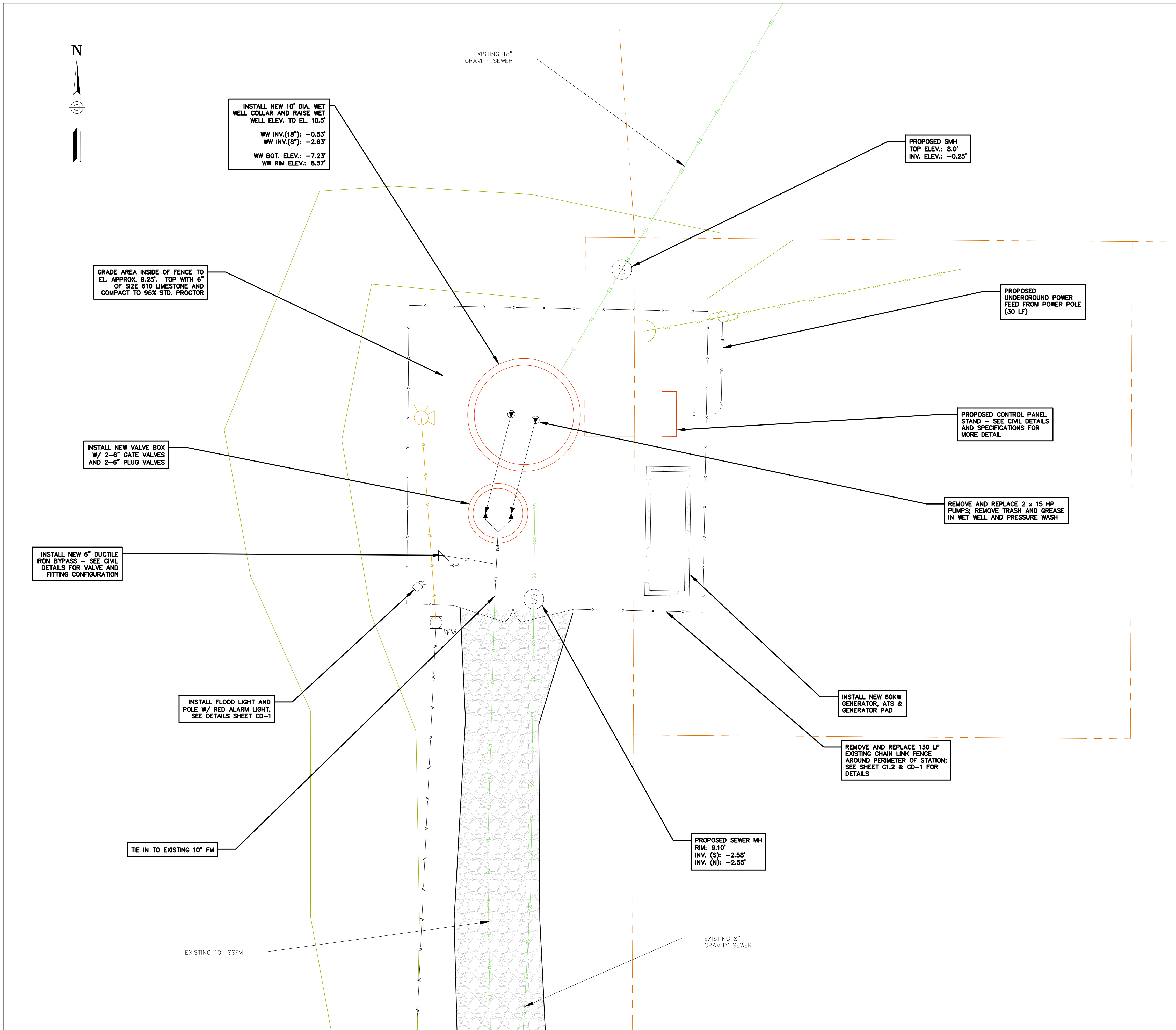
EXISTING LS21 LIFT STATION

SCALE: N/A

GENERAL NOTES:

1. CONTRACTOR SHALL USE EXTREME CAUTION DUE TO UNDERGROUND UTILITIES THAT MAY OR MAY NOT BE MARKED OR SHOWN IN THIS DRAWING.
2. CONTRACTOR SHALL CALL AND PROVIDE A UTILITIES LOCATE TO VERIFY EXISTING UTILITY LOCATIONS NOT SHOWN ON PLANS.
3. ALL UTILITIES/ITEMS NOT SHOWN FOR REMOVAL ARE TO REMAIN IN PLACE AND OR UNDISTURBED.
4. ALL RELOCATIONS INVOLVING GAS UTILITIES, POWER POLES, UTILITY POLES, OVERHEAD ELECTRIC, TELECOMMUNICATION/FIBER OPTICS ARE TO BE COMPLETED BY OTHERS, IF NECESSARY.
5. LOCATION OF SOME EXISTING WATER SERVICE LINES, GAS SERVICE LINES AND SEWER SERVICE LINES ARE UNKNOWN AT TIME OF SURVEY AND ARE NOT SHOWN. CONTRACTOR TO VERIFY LOCATIONS PRIOR TO EXCAVATING FOR ANY NEW UNDERGROUND UTILITIES.

REVISION REV 0	<div>EXISTING CONDITIONS / REMOVAL PLANS</div>
DRAWN M. KIRKLAND	
CHECKED M. KIRKLAND	
APPROVED M. SEYMOUR	
DATE 10/27/2025	
<div>BUCKS ROAD LIFT STATION (LS-21) REHABILITATION</div>	
<div>CITY OF GAUTIER</div>	
<div>925 TOMMY MUNRO DRIVE SUITE G BILOXI, MS 39532 (228) 385-2350 se@seymoureng.com</div>	
<div>SEYMOUR ENGINEERING</div>	
<div>JOB/PROJECT NUMBER 23-066.05.03</div>	
<div>SHEET C1.0</div>	



EXISTING LIFT STATION INFORMATION

LIFT STATION LOCATION: BUCKS ROAD

PUMP INFO: 2 x BALDOR 15 HP SELF PRIMING PUMPS

PUMP PARAMETERS: 15 HP, 1765 RPM, 1" DIA. IMPELLER

DESIGN POINT: 600 GPM @ 47 FEET TOTAL DYNAMIC HEAD

ELECTRICAL SERVICE A/V/P: 42 AMP, 230 VOLT, 3 PHASE

WET WELL DIAMETER: 120 INCHES

WET WELL DEPTH: 16.0 FEET

LIFT STATION IMPROVEMENTS

1. INSTALL NEW COLLAR AROUND EXISTING LIFT STATION TO BRING TO EL. 10.5'
2. GRADE EXISTING SITE TO DRAIN, RAISE LOW SPOTS TO EL. 9.25', ADD 6" OF LIMESTONE TO TOP SITE
3. REPLACE DISCHARGE PIPING FROM PUMPS TO TIE-IN POINT SHOWN ON PLANS.
4. INSTALL NEW CONTROL PANEL
5. INSTALL NEW FLOODLIGHT AND POLE, W/ RED ALARM LIGHT SHOWN ON SHEET 1.2
6. INSTALL NEW PUMPS TO MEET DESIGN POINT SHOWN THIS SHEET.
7. INSTALL NEW UNDERGROUND POWER FEED
8. INSTALL NEW 60KW GENERATOR, AUTOMATIC TRANSFER SWITCH, AND GENERATOR PAD
9. INSTALL NEW VALVE BOX AND VALVES
10. INSTALL TWO (2) NEW MANHOLES AT ELEVATIONS SHOWN THIS SHEET
11. INSTALL NEW BYPASS (SEE CIVIL DETAILS)

LS 21 NOTES:

1. LS 21 REHABILITATION WILL BE A UNIT PRICE PROJECT.
2. LIFT STATION NO.21 IS TO REMAIN IN OPERATION AS LONG AS POSSIBLE. CONTRACTOR IS RESPONSIBLE FOR THE TEMPORARY BYPASSING REQUIRED TO MAKE IMPROVEMENTS TO THE EXISTING WET WELL.
3. ANY FILL BROUGHT IN TO LEVEL LIFT STATION SITE MUST BE COMPACTED IN 6" LIFTS TO 98% STD. PROCTOR. SEE SPECIFICATIONS FOR MORE DETAIL ON FILL MATERIAL.

GENERAL NOTES:

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2. CONTRACTOR SHALL CALL AND PROVIDE A UTILITIES LOCATE TO VERIFY EXISTING UTILITY LOCATIONS NOT SHOWN ON PLANS.
3. ALL UTILITIES/ITEMS NOT SHOWN FOR REMOVAL ARE TO REMAIN IN PLACE AND OR UNDISTURBED.
4. ALL RELOCATIONS INVOLVING GAS UTILITIES, POWER POLES, UTILITY POLES, OVERHEAD ELECTRIC, TELECOMMUNICATION/FIBER OPTICS ARE TO BE COMPLETED BY OTHERS, IF NECESSARY.
5. LOCATION OF SOME EXISTING WATER SERVICE LINES, GAS SERVICE LINES AND SEWER SERVICE LINES ARE UNKNOWN AT TIME OF SURVEY AND ARE NOT SHOWN, CONTRACTOR TO VERIFY LOCATIONS PRIOR TO EXCAVATING FOR ANY NEW UNDERGROUND UTILITIES.

REVISION REV 0	PROPOSED SITE PLAN
DRAWN M. KIRKLAND	
CHECKED M. KIRKLAND	
APPROVED M. SEYMOUR	
DATE 10/27/2025	
BUCKS ROAD LIFT STATION (LS-21) REHABILITATION	
CITY OF GAUTIER	
925 TOMMY MUNRO DRIVE SUITE G BILOXI, MS 39532 (228) 385-2350 se@seymoureng.com	
 SEYMOUR ENGINEERING	
JOB/PROJECT NUMBER 23-066.05.03	
SHEET C1.1	

REVISION	REV 0
DRAWN	M. KIRKLAND
CHECKED	M. KIRKLAND
APPROVED	M. SEYMOUR
DATE	12/01/2025

LIFT STATION DETAILS (LS 21)

BUCKS ROAD LIFT STATION (LS 21)
REHABILITATION

CITY OF GAUTIER

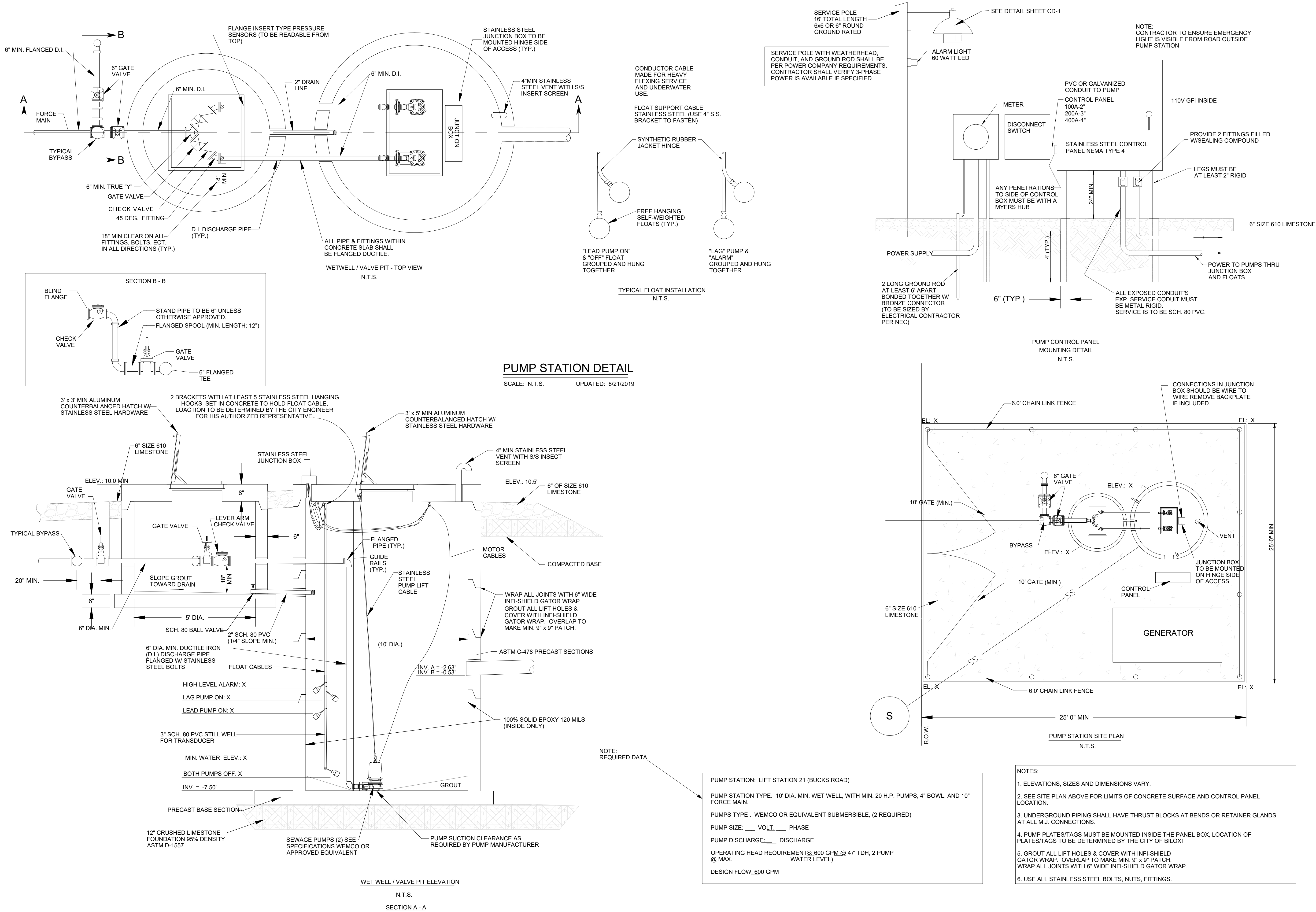
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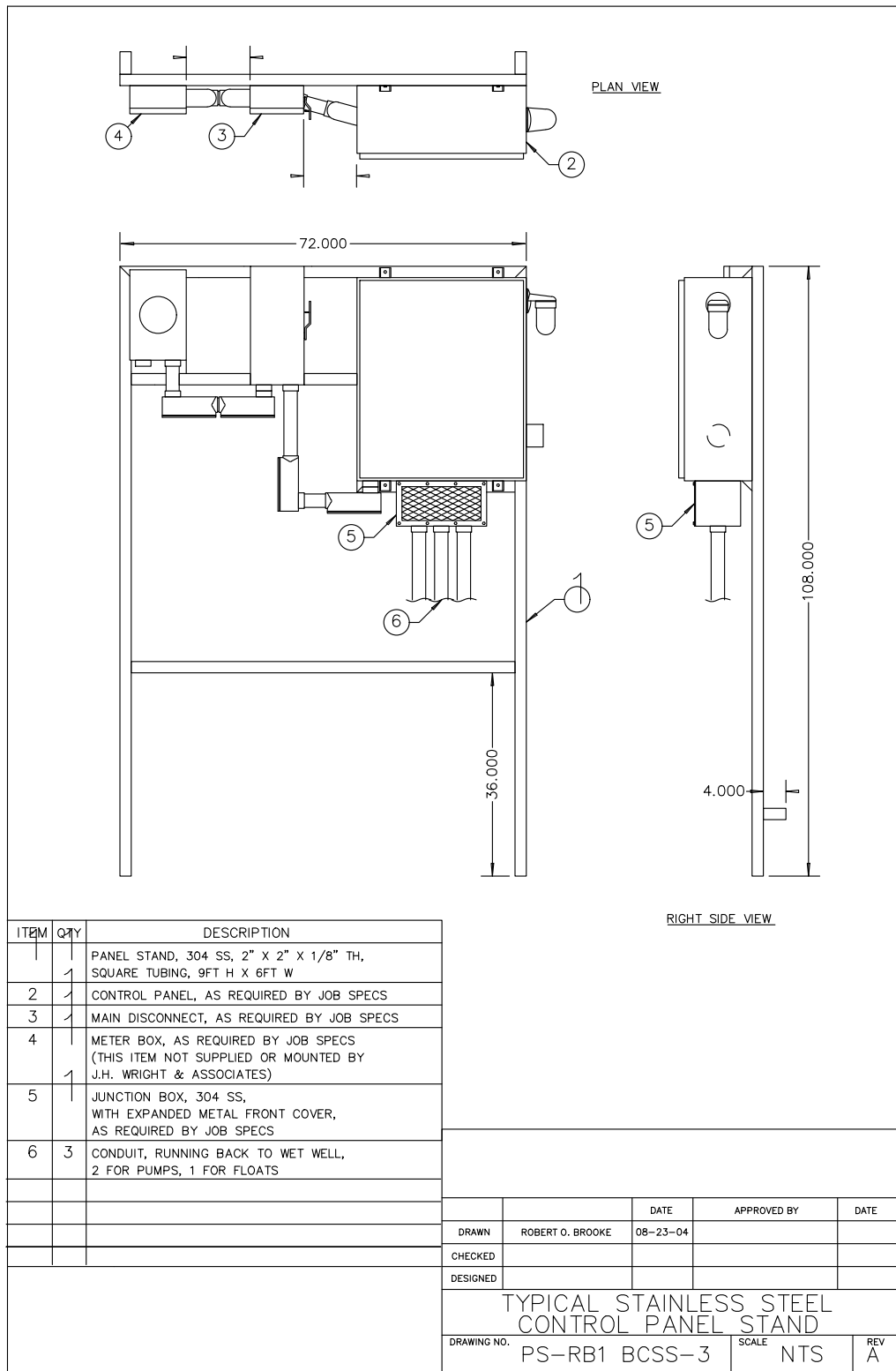


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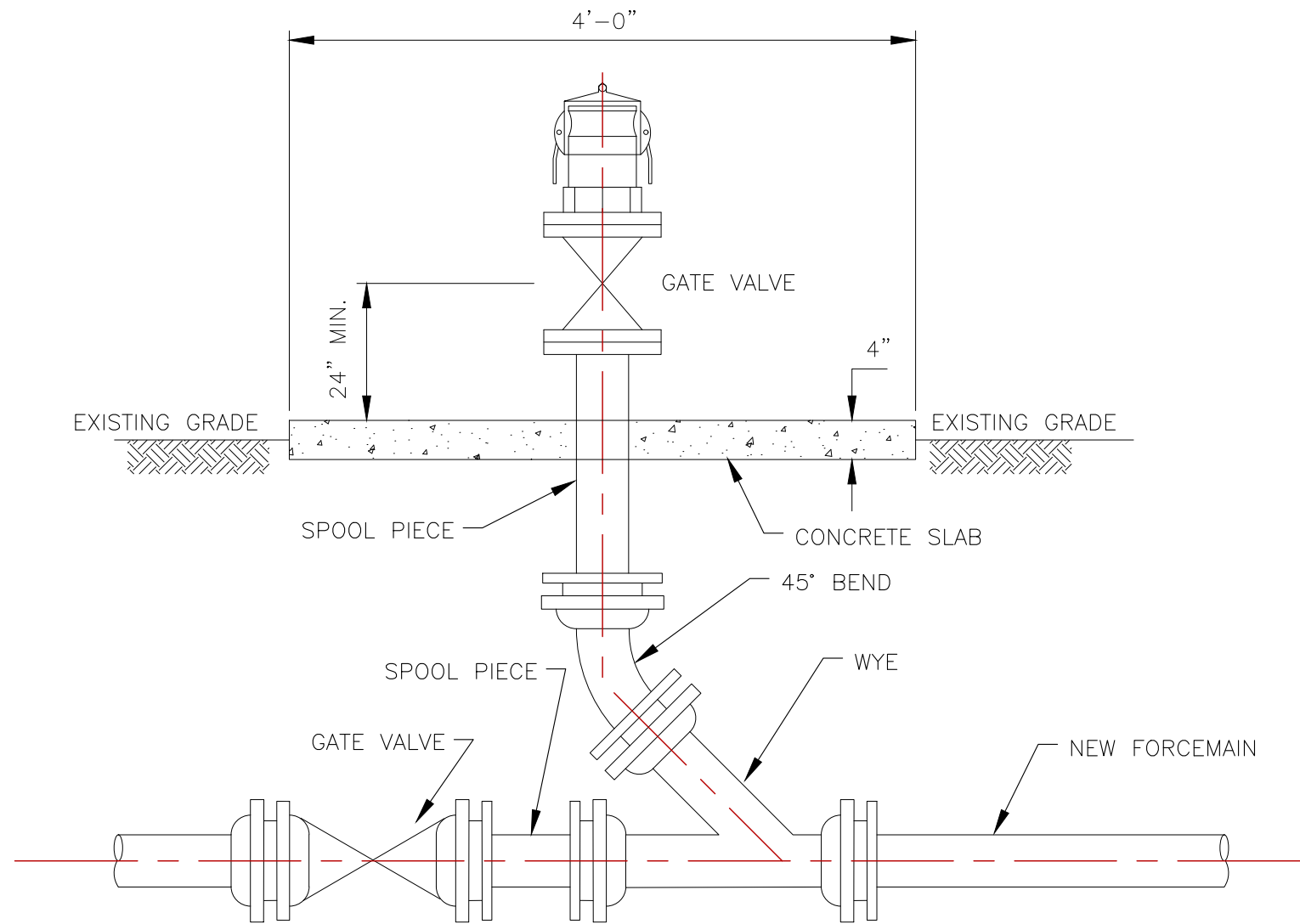
C1.2





TYP. BOTTOM MOUNT JUNCTION BOX DETAIL

N.T.S

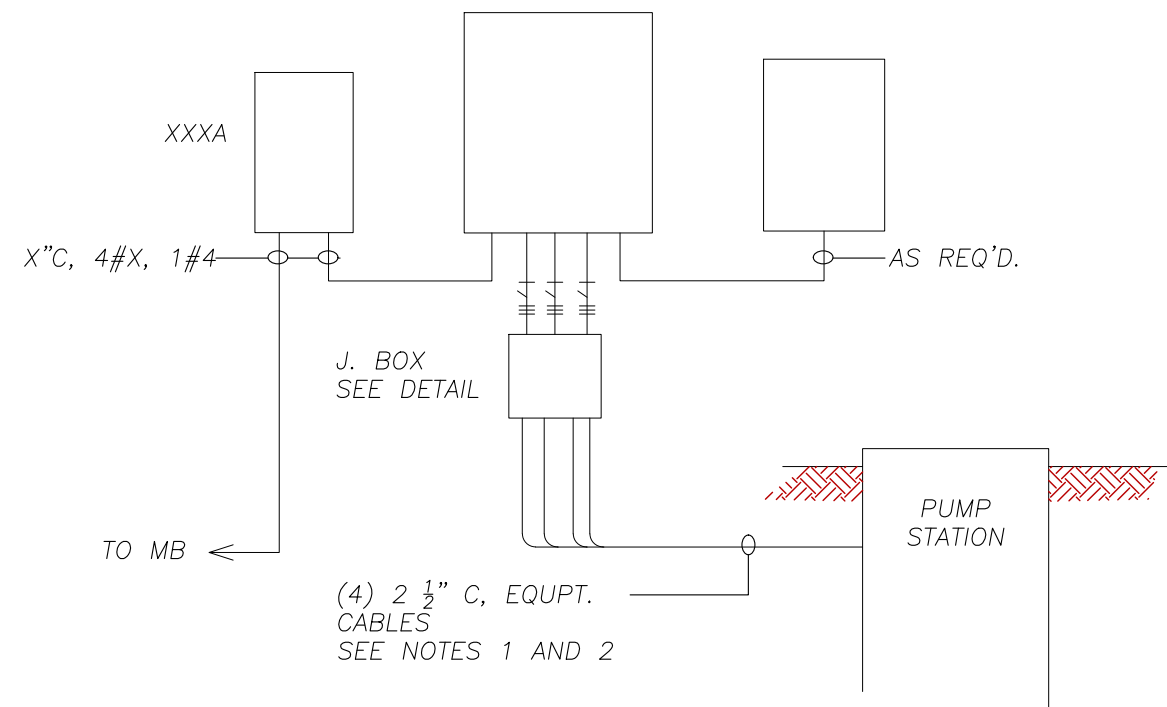


NOTES:

1. PIPE SIZES SHOWN ON CIVIL DRAWINGS.
2. ALL MECHANICAL JOINTS SHALL BE RESTRAINED TYPE JOINTS.

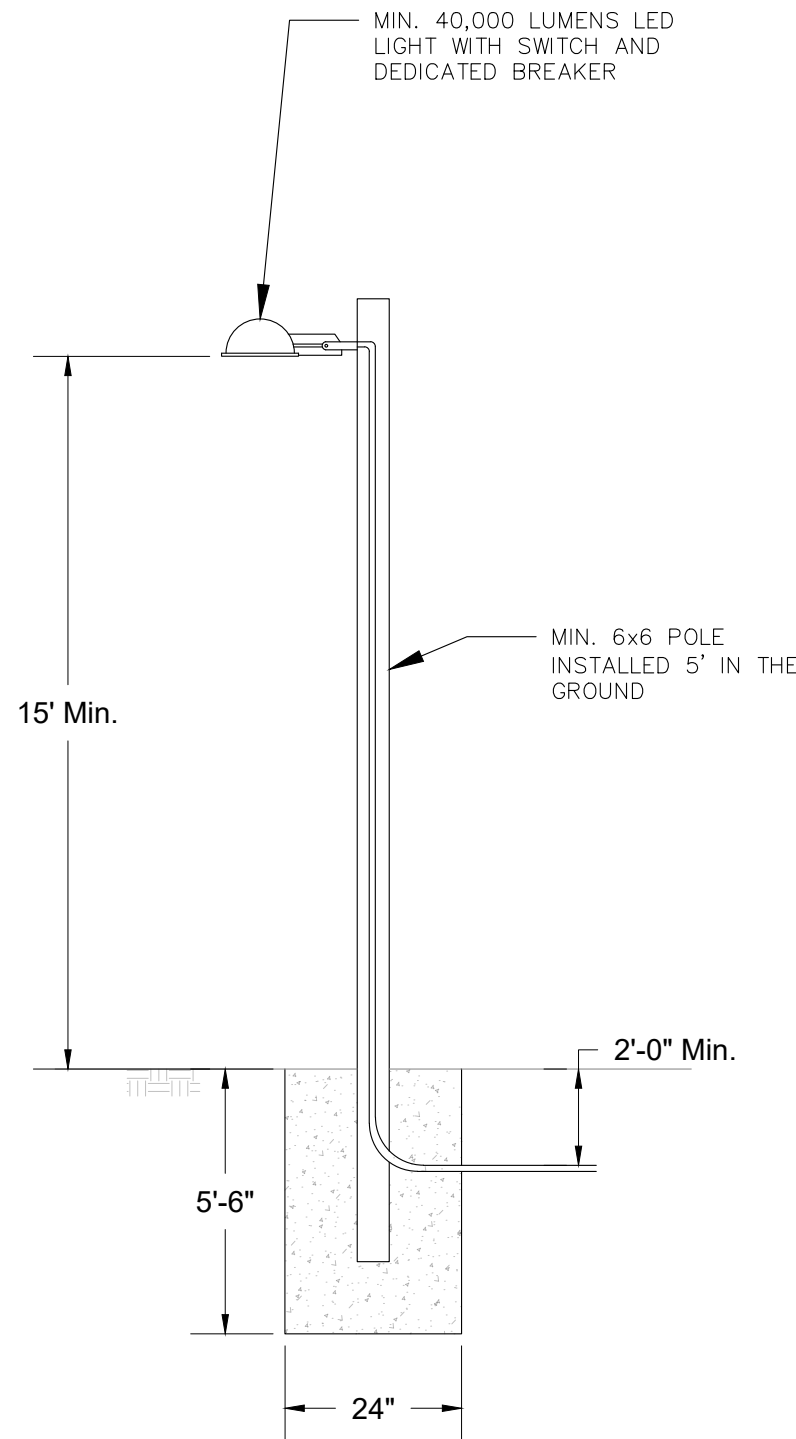
BY-PASS CONNECTION DETAIL

N.T.S



NOTES:

1. INCREASE CONDUIT SIZE AND (OR) QUANTITY AS REQUIRED TO OBTAIN MAXIMUM OF 40% CONDUIT FILL BASED ON PUMP MANUFACTURERS CABLES.
2. ALL WORK TO BE PER NFPA 70 AND NFPA 820.
3. ALL SERVICE ENTRANCE WORK TO BE DONE IN ACCORDANCE WITH POWER COMPANY REQUIREMENTS.



CIVIL DETAILS

BUCKS ROAD LIFT STATION (LS-21)

REHABILITATION

CITY OF GAUTIER

925 TOMMY MUNRO DRIVE

SUITE G

BILOXI, MS 39532

(228) 385-2350

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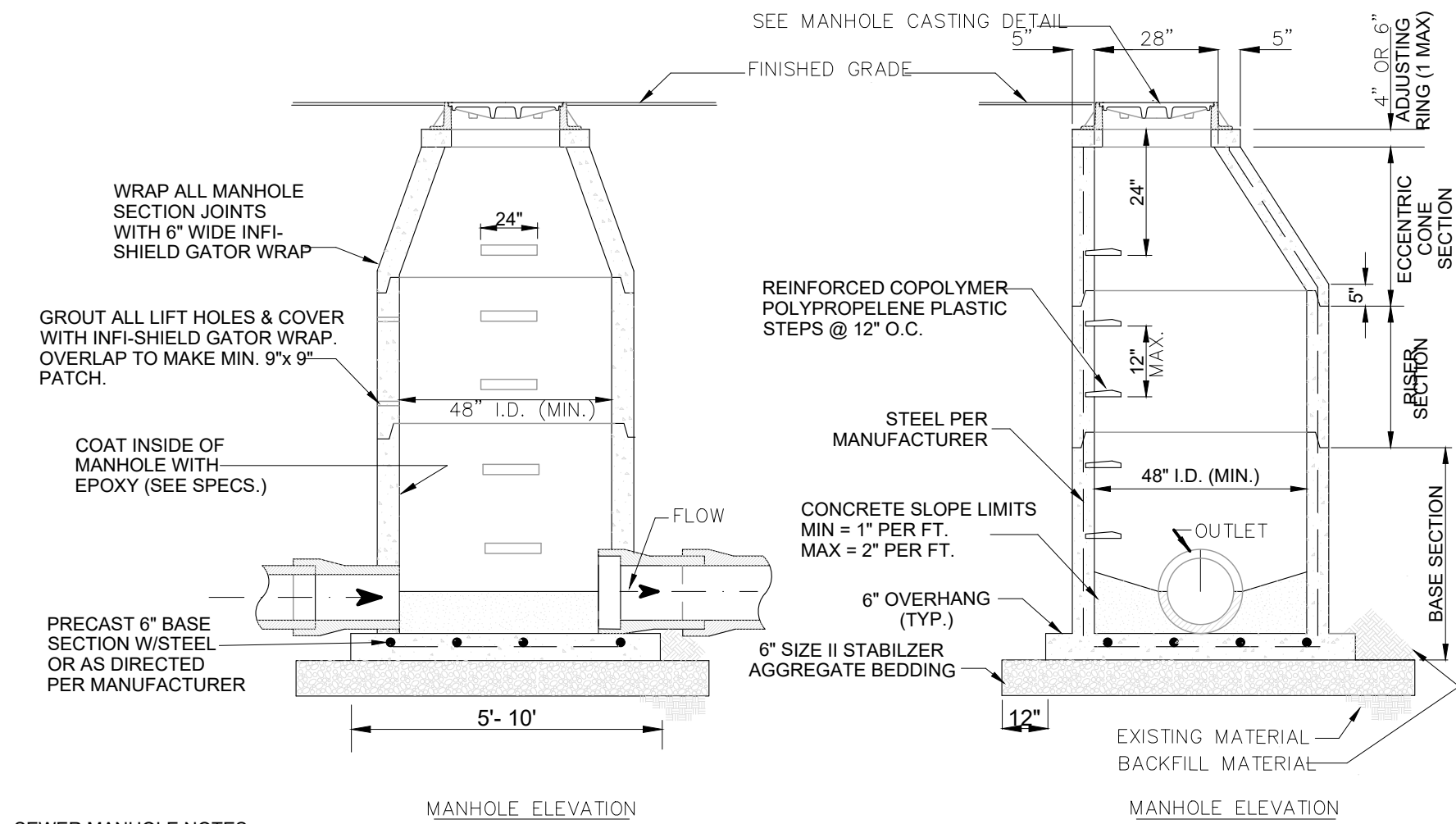


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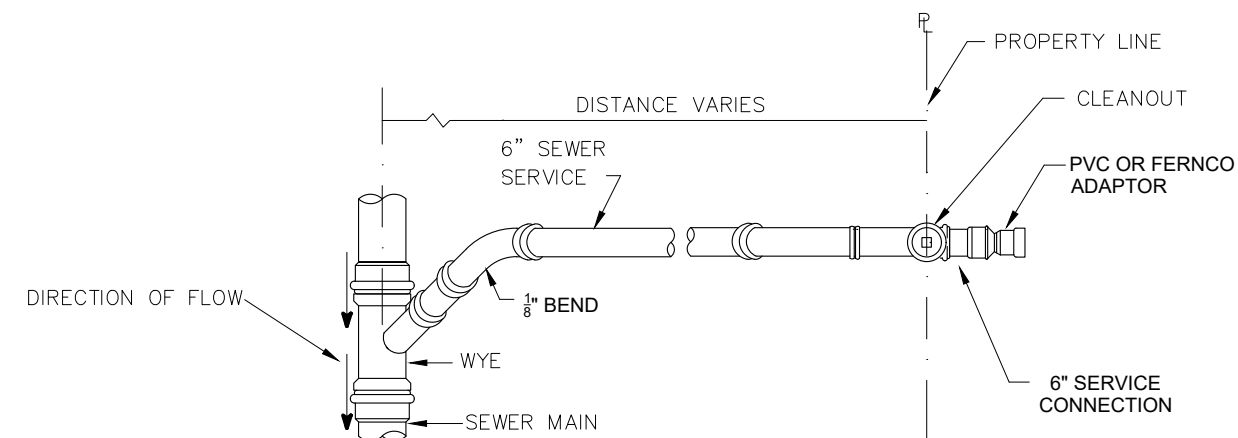
CD-1



- SEWER MANHOLE NOTES:**
1. REFER TO OTHER DETAILS FOR DROP SEWER MANHOLES, MANHOLE CASTINGS, MANHOLE ADJUSTING RINGS, AND ROAD REPAIR DETAILS.
 2. BEDDING MATERIAL, BACKFILL MATERIAL, AND EXISTING GRANULAR MATERIAL SHALL BE COMPACTED TO 95% PROCTOR PER ASTM D1557.
 3. BEDDING MATERIAL SHALL BE 6" THICK BUT SHALL BE DEEPER IF DIRECTED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
 4. EPOXY COATING SHALL BE EITHER COAL TAR EPOXY OR 100% SOLIDS EPOXY IN ACCORDANCE WITH SECTION 907-604-1 OF THE SPECIFICATIONS.
 5. IN PAVED AND NON-PAVED AREAS, MANHOLES SHALL BE FLUSH WITH THE FINISHED GRADE UNLESS INDICATED OR DIRECTED OTHERWISE THAT THE TOP OF MANHOLE SHALL BE ABOVE FINISHED GRADE.

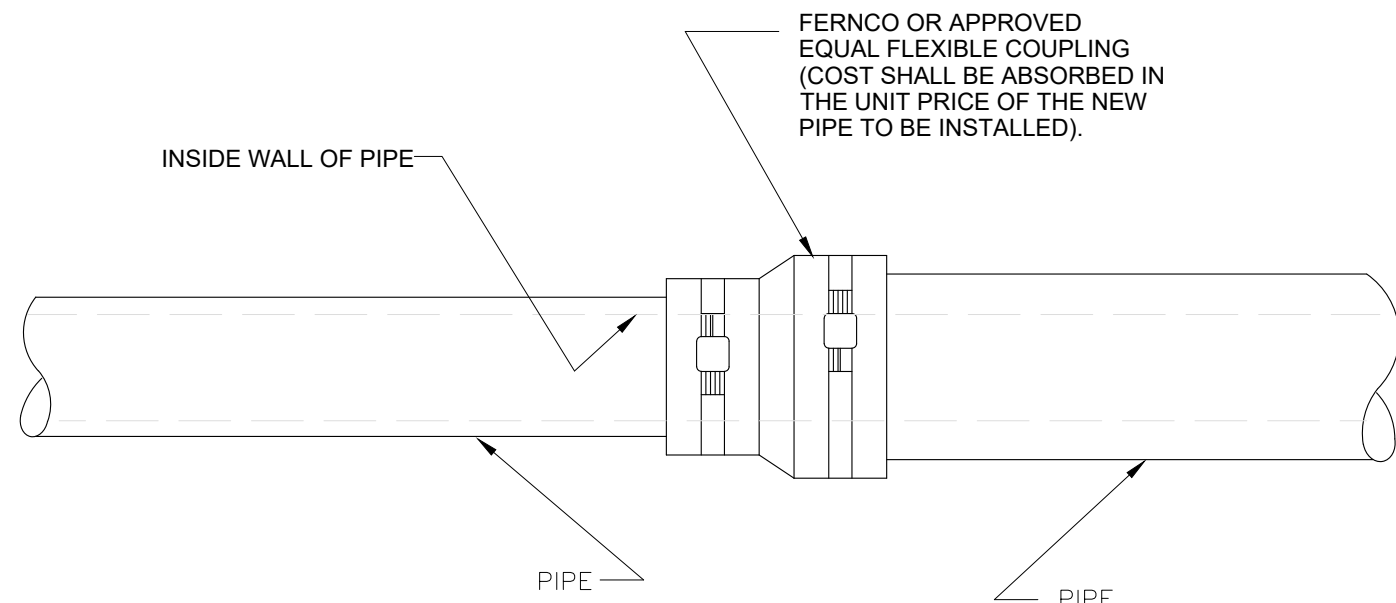
PRECAST SANITARY SEWER MANHOLE DETAILS

SCALE: N.T.S. UPDATED: 6/26/2019



SINGLE LOT SEWER SERVICE PLAN VIEW

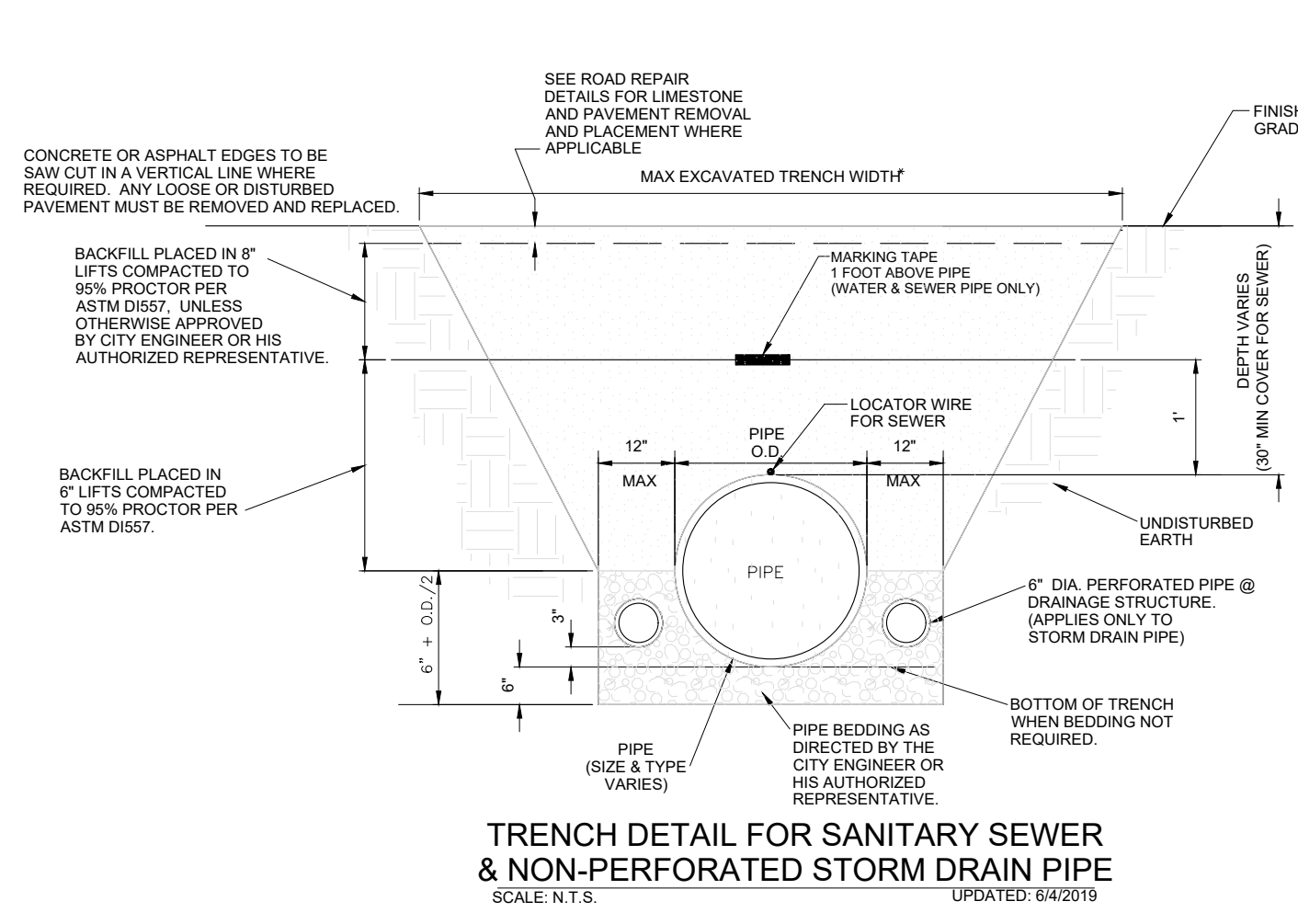
SCALE: N.T.S. UPDATED: 6/28/2019



- NOTE:**
1. THIS DETAIL SHALL ONLY BE USED AS SHOWN ON THE PLANS OR AS APPROVED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.

NEW TO EXISTING SANITARY SEWER CONNECTION DETAIL

SCALE: N.T.S. UPDATED: 6/4/2019



TRENCH DETAIL FOR SANITARY SEWER & NON-PERFORATED STORM DRAIN PIPE

SCALE: N.T.S. UPDATED: 6/4/2019

STORM DRAIN PIPE PLACEMENT NOTES:

1. STORM DRAIN PIPE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. LOCATION FOR INSTALLATION OF TYPE OF PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. ONLY CONCRETE STORM DRAIN PIPE SHALL BE INSTALLED UNDER PAVED AREAS.
2. ALL STORM DRAIN JOINTS SHALL BE WRAPPED WITH GEOTEXTILE FABRIC. FABRIC SHALL BE THREE (3) FEET WIDE (CENTERED OVER JOINT) AND LONG ENOUGH TO WRAP AROUND THE PIPE JOINT AND OVERLAP 1/3 THE CIRCUMFERENCE. THE COST OF FABRIC SHALL BE ABSORBED IN THE UNIT PRICE BID FOR STORM DRAIN PIPE AND SHALL NOT BE MEASURED FOR SEPARATE PAYMENT.
3. PERFORATED PIPE SHALL BE STUBBED OUT OF DRAINAGE STRUCTURE WALLS FOR DRAIN RELIEF OF STORM DRAIN BEDDING. PERFORATED PIPE SHALL BE 6" DIA. x 16" LONG SDR-26 PIPE AND SHALL BE INSTALLED 3" ABOVE INVERT OF LOWEST PIPE AS SHOWN ON THE DETAIL. PERFORATED PIPE SHALL BE INSTALLED ON BOTH SIDES OF EACH PIPE OR ANY SIDE OF BOX THAT PROVIDES MIN. CLEARANCE AS SHOWN ON THE DETAIL OR AS DIRECTED BY CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. PERFORATED PIPE SHALL BE WRAPPED WITH GEOTEXTILE FABRIC THE ENTIRE LENGTH OF THE STUB-OUT. THE FABRIC SHALL BE INSTALLED IN SUCH A MANNER THAT SILT IS PREVENTED FROM ENTERING THE OPEN END OF THE STUB-OUT AS WELL AS THE PERFORATIONS. THIS SHALL APPLY TO ALL DRAINAGE STRUCTURES.
4. REFER TO OTHER DETAILS FOR DRAINAGE STRUCTURES, CONCRETE PIPE REPAIR METHODS, PIPE END TREATMENTS, & GRATES.

SEWER PIPE PLACEMENT NOTES:

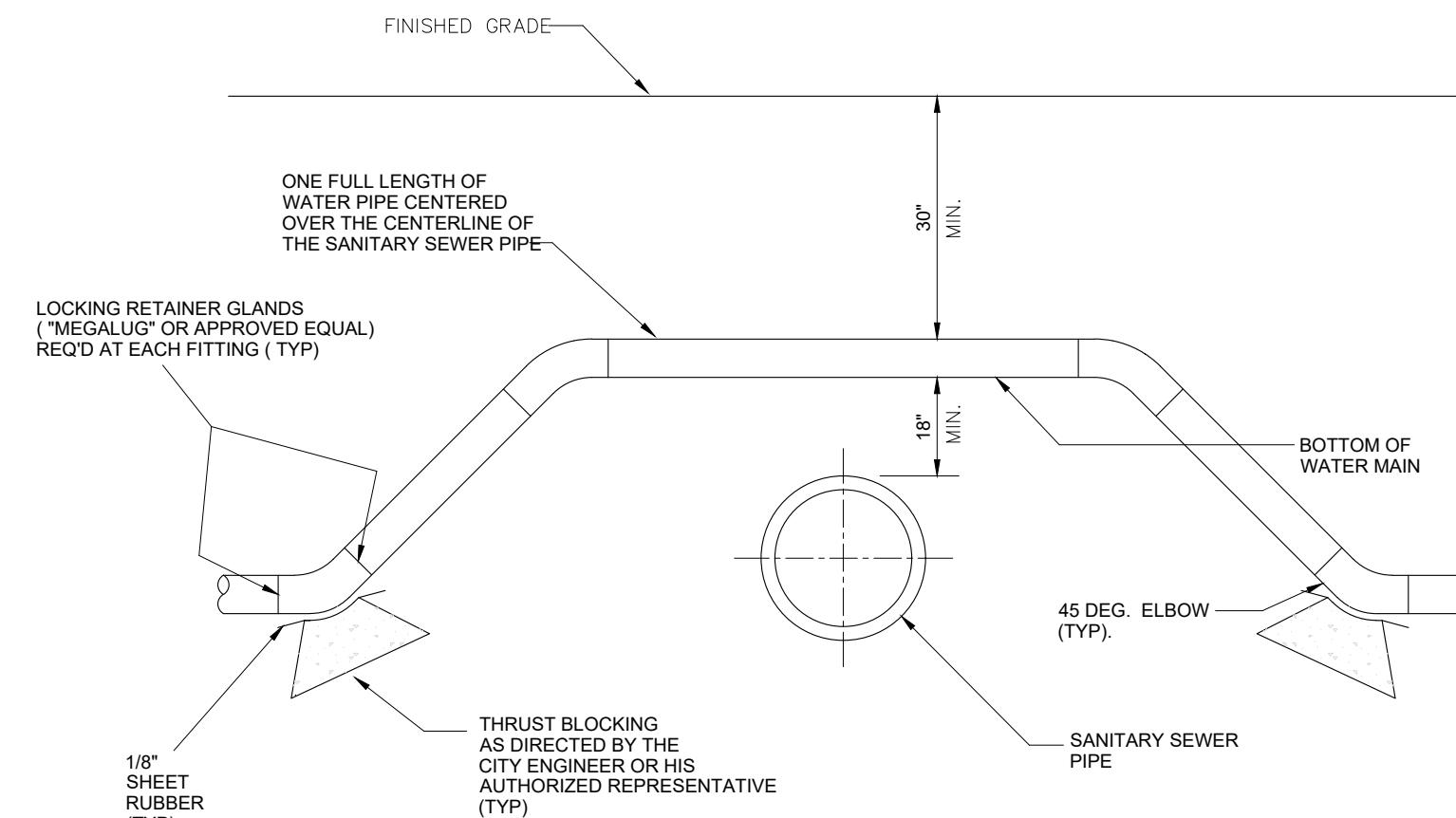
1. SANITARY SEWER PIPE SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS. LOCATION FOR INSTALLATION OF PVC OR DUCTILE IRON PIPE SHALL BE AS SHOWN ON THE DRAWINGS OR AS DIRECTED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
2. SANITARY SEWER PIPE SHALL BE BURIED IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN MINIMUM COVER REQUIREMENTS. COVER SHALL BE A MINIMUM OF THIRTY (30) INCHES.
3. FOR GRAVITY PIPE REFER TO OTHER DETAILS FOR MANHOLES AND SERVICES.
4. FOR FORCE MAINS REFER TO OTHER DETAILS FOR THRUST BLOCKS, VALVES, SERVICES, AND AIR RELEASE VALVES.

GENERAL NOTES:

1. PIPE BEDDING SHALL BE "BORROW EXCAVATION" IN ACCORDANCE WITH SECTION 203 OF THE SPECIFICATIONS OR "SIZE II STABILIZER AGGREGATE" IN ACCORDANCE WITH SECTION 204 OF THE SPECIFICATIONS. TYPE AND LOCATION OF BEDDING SHALL BE DETERMINED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. BEDDING FOR ARCH PIPE SHALL COVER THE HAUNCHES.
2. BACKFILL MATERIAL SHALL BE PLACED ON BOTH SIDES OF PIPE SIMULTANEOUSLY DURING BACKFILLING OPERATIONS TO PREVENT SHIFTING OR DAMAGE TO PIPE.
3. "MAXIMUM EXCAVATED TRENCH WIDTH" REFERS TO THE MAXIMUM WIDTH THAT WILL BE USED FOR COMPUTATION OF APPLICABLE PAY ITEMS FOR BORROW FOR BACKFILL, LIMESTONE, AND PAVING. PIPE BEDDING SHALL BE PAID BASED ON A WIDTH OF TWO FEET PLUS THE OUTSIDE DIAMETER OF THE PIPE (O.D. OF PIPE + 2 FEET) AS SHOWN ON THE DETAIL. THE CONTRACTOR MAY EXCAVATE A WIDER TRENCH AT HIS OWN EXPENSE AS LONG AS TRENCH REMAINS WITHIN THE LIMITS OF CITY P.O.W., PROPERTY, OR EASEMENT AND THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE APPROVES THE DIMENSIONS OF THE WIDER TRENCH.
4. IN INSTANCES WHERE TRENCH BOXES ARE REQUIRED PER OSHA STANDARDS/REGULATIONS, THE BORROW AND EXCAVATION LIMITS AS SHOWN IN THE STANDARD DETAIL WILL BE ADJUSTED AS NECESSARY TO ACCOUNT FOR SAID TRENCH BOXES. THE DEPTH USED TO CALCULATE THE MAXIMUM EXCAVATED TRENCH WIDTH WILL BE MEASURED FROM THE TOP OF THE TRENCH BOX AS OPPOSED TO THE DEPTH OF THE PIPE. THESE LIMITS OF BORROW AND EXCAVATION WILL BE FIELD DETERMINED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE. TRENCH BOX WIDTHS SHALL BE KEPT TO A MINIMUM TO AVOID EXCESSIVE TRENCH WIDTHS. PAYMENT FOR BORROW AND EXCESS EXCAVATION IS TO BE FIELD DETERMINED BY THE CITY ENGINEER OR HIS AUTHORIZED REPRESENTATIVE.
5. IN THE CASE OF OVERLAPPING UTILITY TRENCHES:
THE CONTRACTOR SHALL ONLY BE PAID ONCE FOR ITEMS SUCH AS LIMESTONE AND PAVING. ADDITIONALLY ANY MARKING TAPE ABOVE SEWER PIPE THAT IS DISTURBED OR DAMAGED BY OVERLAPPING TRENCHES SHALL BE PROPERLY REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
6. INSTALLATION AND COVER REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTIONS AND RECOMMENDATIONS. TOP OF PIPE SHALL BE BELOW ROAD BASE IN PAVED AREAS.
7. IF EXISTING MATERIAL IS USED FOR BACKFILL, THERE SHALL BE NO ADDITIONAL PAYMENT FOR EXCAVATION AND BACKFILL. IF EXISTING MATERIAL IS UNSUITABLE FOR BACKFILL, BORROW MATERIAL SHALL BE USED. DISPOSAL OF UNSUITABLE MATERIAL SHALL BE PAID FOR AT THE UNIT PRICE BID FOR EXCESS EXCAVATION. APPROVED PLACEMENT OF BORROW SHALL BE PAID FOR AT THE UNIT PRICE BID FOR BORROW MATERIAL.

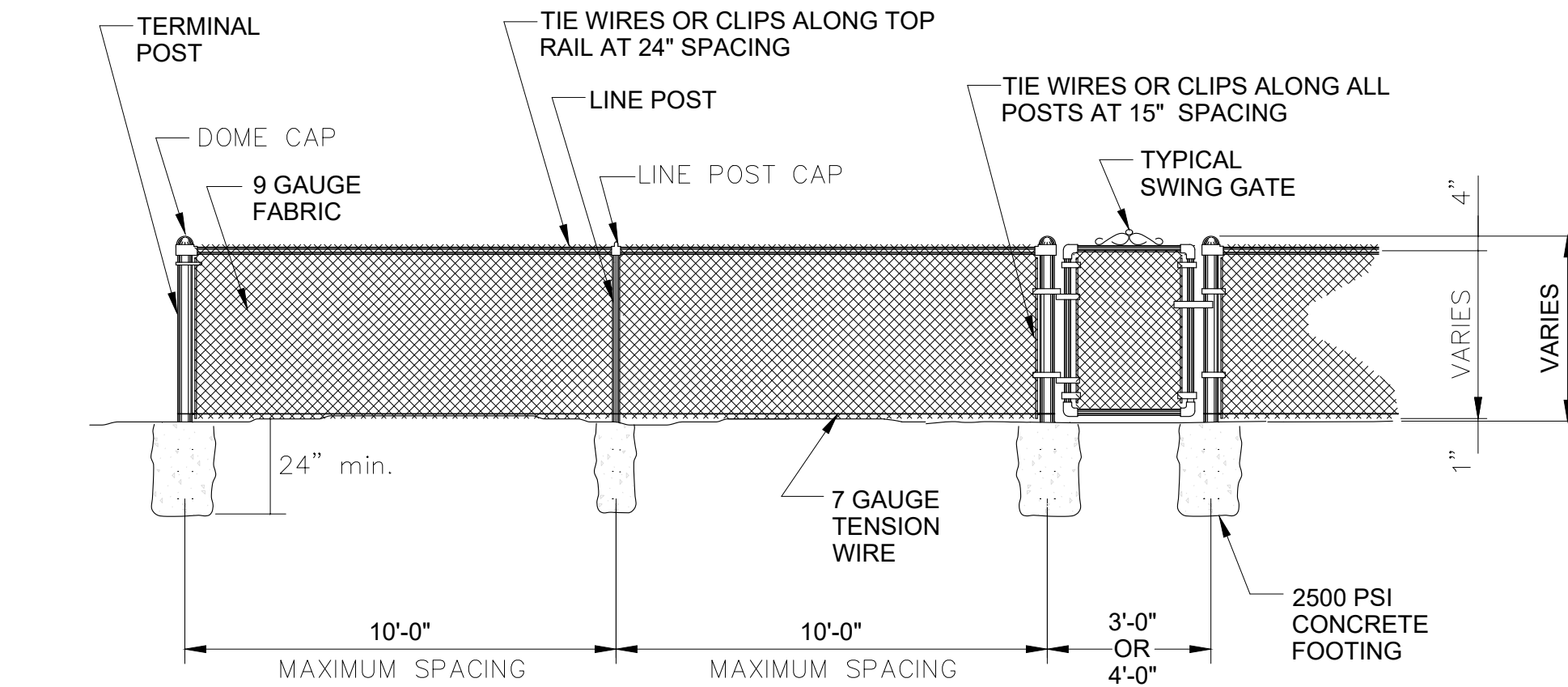
WATER MAIN / SANITARY SEWER CROSSING NOTE:

1. WATER LINES SHALL ALWAYS BE CONSTRUCTED ABOVE SANITARY SEWER LINES UNLESS A SEPARATE DETAIL IS SHOWN INDICATING A DIFFERENT ARRANGEMENT AND THE PLANS INDICATE SPECIFIC LOCATIONS WHERE THE WATER LINE MAY BE LOCATED BELOW THE SANITARY SEWER.



WATER MAIN / SANITARY SEWER CROSSING

SCALE: N.T.S. UPDATED: 6/5/2019

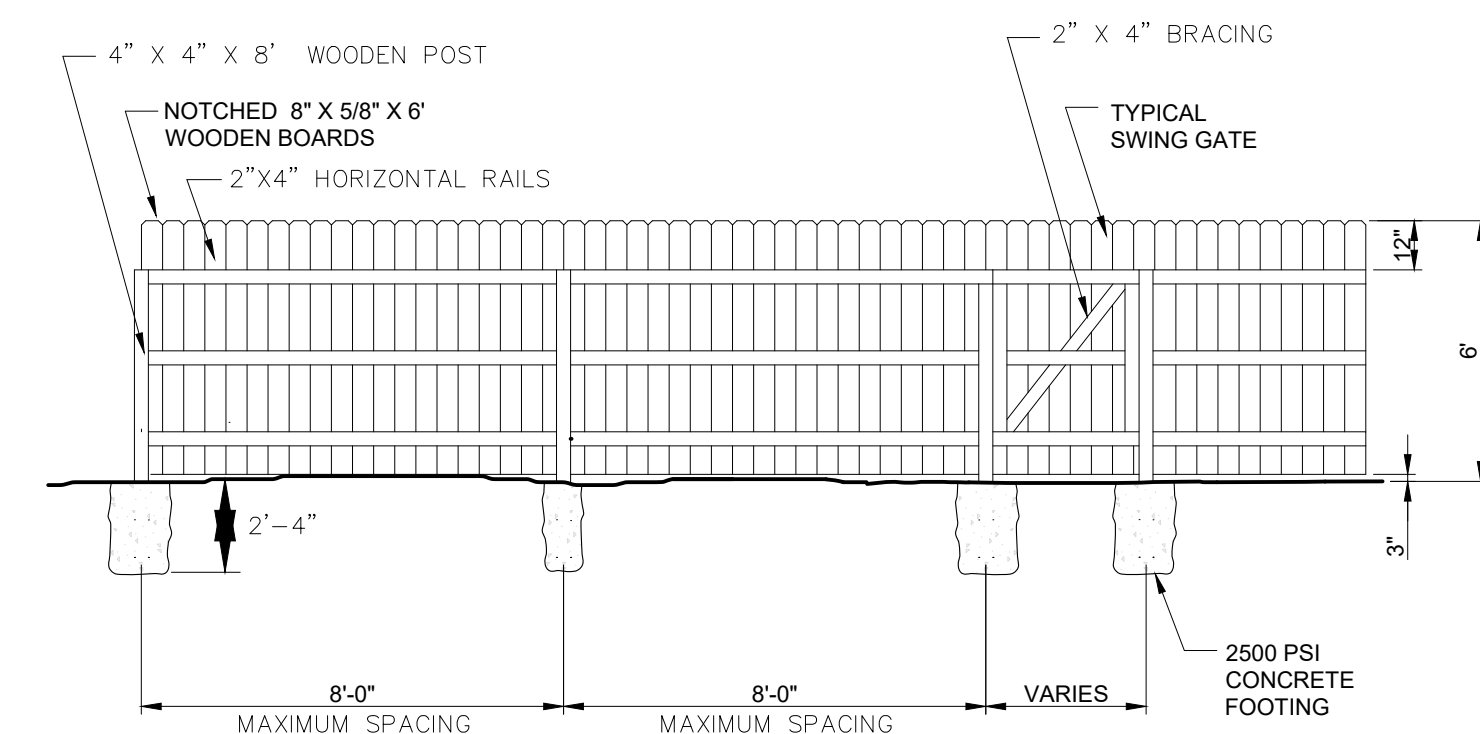


CHAINLINK FENCE

SCALE: N.T.S. UPDATED: 5/31/2019

GENERAL NOTES:

1. ALL FENCING FABRIC SHALL BE 9 GAUGE GALVANIZED KNUCKLED MESH AT BOTH ENDS.
2. ALL CORNER POSTS SHALL BE 2-3/8" NOMINAL DIAMETER SCHEDULE 40 PIPE.
3. LINE POSTS SHALL BE 1-7/8" NOMINAL DIAMETER SCHEDULE 40 PIPE.
4. TOP RAILS SHALL BE 1-11/16" NOMINAL DIAMETER SCHEDULE 40 PIPE.
5. FENCING SHALL BE INSTALLED WITH FABRIC TOWARD THE STREET AND POSTS ON THE HOMEOWNER SIDE.
6. ALL POSTS SHALL BE SET IN 2500 PSI CONCRETE FOOTINGS A MINIMUM OF 24" DEEP. SEE SPECIFICATIONS FOR EXACT DEPTH.
7. CONCRETE SHALL CURE A MINIMUM OF THREE DAYS PRIOR TO THE INSTALLATION OF ANY FABRIC MATERIAL.
8. FENCING FABRIC SHALL BE FASTENED WITH TENSION BARS AND APPROPRIATE BANDS.
9. FENCING FABRIC SHALL BE FASTENED ALONG TENSION WIRE AND TOP RAIL AT 24" SPACING WITH APPROVED TIES OR CLIPS.
10. FENCING FABRIC SHALL BE FASTENED TO ALL POSTS AT 15" SPACING WITH APPROVED TIES OR CLIPS.



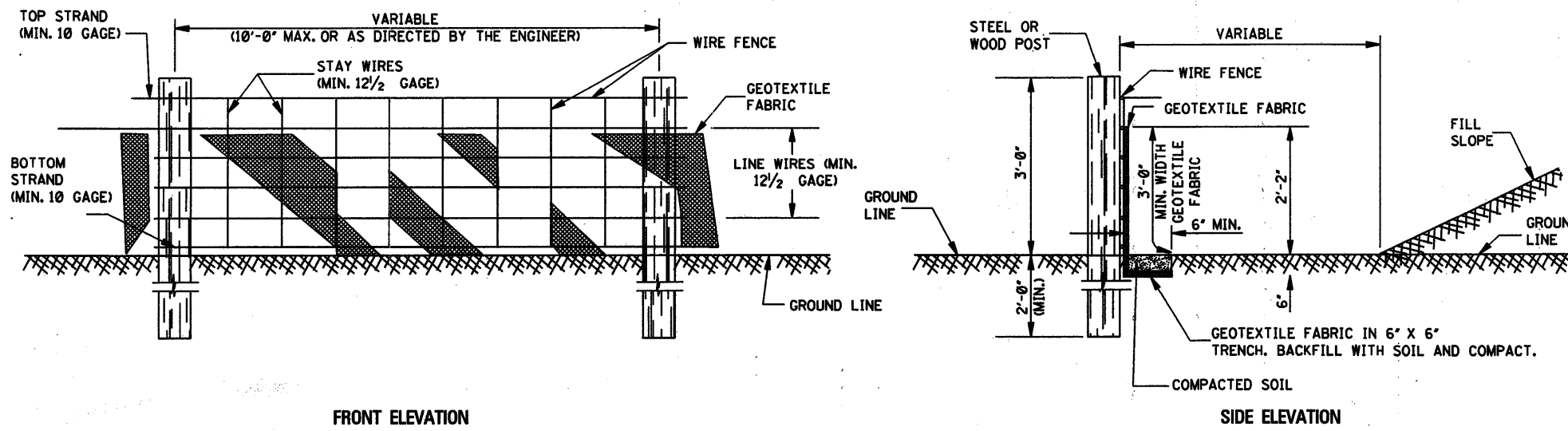
WOODEN FENCE

SCALE: N.T.S. UPDATED: 6/3/2019

GENERAL NOTES:

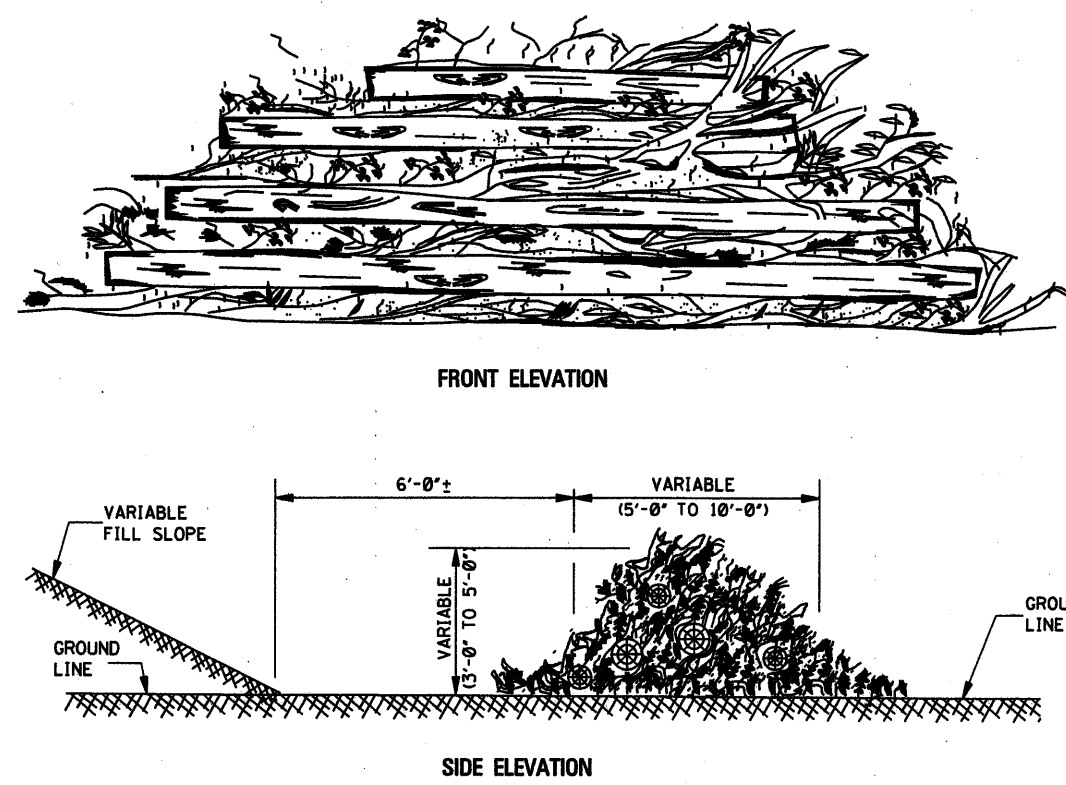
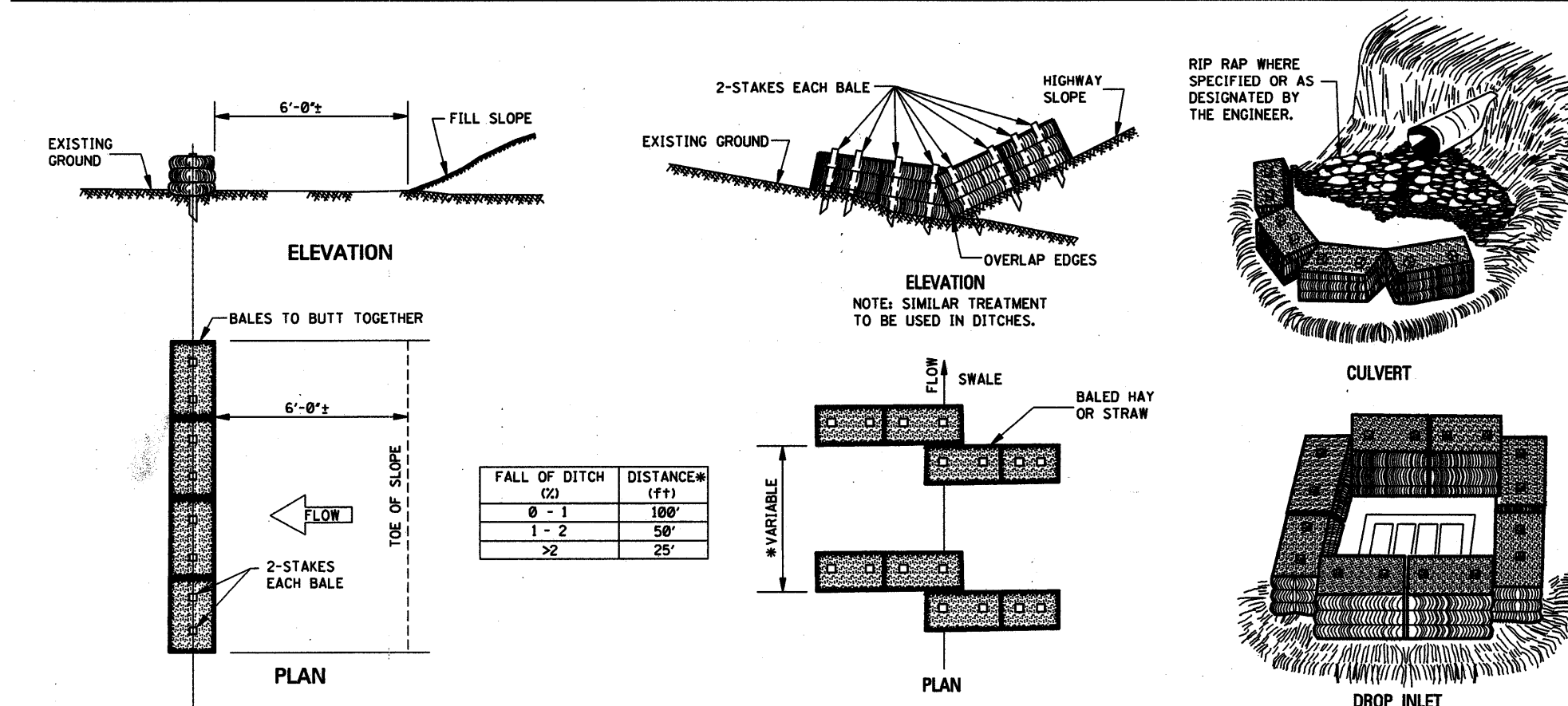
1. FENCING SHALL BE INSTALLED WITH BOARDS TOWARD THE STREET AND POSTS ON THE HOME OWNER'S SIDE.
2. WHEN REPLACING A SECTION OF AN EXISTING FENCE, FENCE TYPE & MATERIALS SHALL MATCH EXISTING.
3. ALL LUMBER SHALL BE PRESSURE TREATED.
4. ALL FASTENERS SHALL BE GALVANIZED.
5. CONCRETE SHALL CURE A MINIMUM OF THREE DAYS PRIOR TO INSTALLATION OF BOARDS.

REVISION	REV0
DRAWN	M. KIRKLAND
CHECKED	M. KIRKLAND
APPROVED	M. SEYMOUR
DATE	12/01/2025
CIVIL DETAILS (CONT.)	
BUCKS ROAD LIFT STATION (LS-21) REHABILITATION	
CITY OF GAUTIER	
925 TOMMY MUNRO DRIVE SUITE G BLOXI, MS 39532 (228) 385-2350 se@seymoureng.com	
JOB/PROJECT NUMBER	
23-066.05.03	
SHEET	
CD-2	



TEMPORARY SILT FENCE

- NOTES:
1. WIRE SHALL BE MINIMUM OF 32" IN WIDTH AND SHALL HAVE A MINIMUM OF 6 LINE WIRES WITH 12" STAY SPACING.
 2. GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE FASTENED ADEQUATELY TO THE WIRE AS DIRECTED BY THE ENGINEER.
 3. STEEL POST SHALL BE 5'-0" IN HEIGHT AND OF THE SELF-FASTENER ANGLE STEEL TYPE. WOOD POST SHALL BE A MINIMUM OF 5'-0" IN HEIGHT AND 3" OR MORE IN DIAMETER. WIRE FENCE SHALL BE FASTENED TO WOODEN POST WITH NOT LESS THAN 9 GAGE WIRE STAPLES 1' LONG.
 4. GEOTEXTILE FABRIC MEETING THE TYPE II MATERIAL REQUIREMENTS AND INSTALLED ACCORDING TO SPECIFICATIONS MAY BE USED WITHOUT WIRE FENCE.

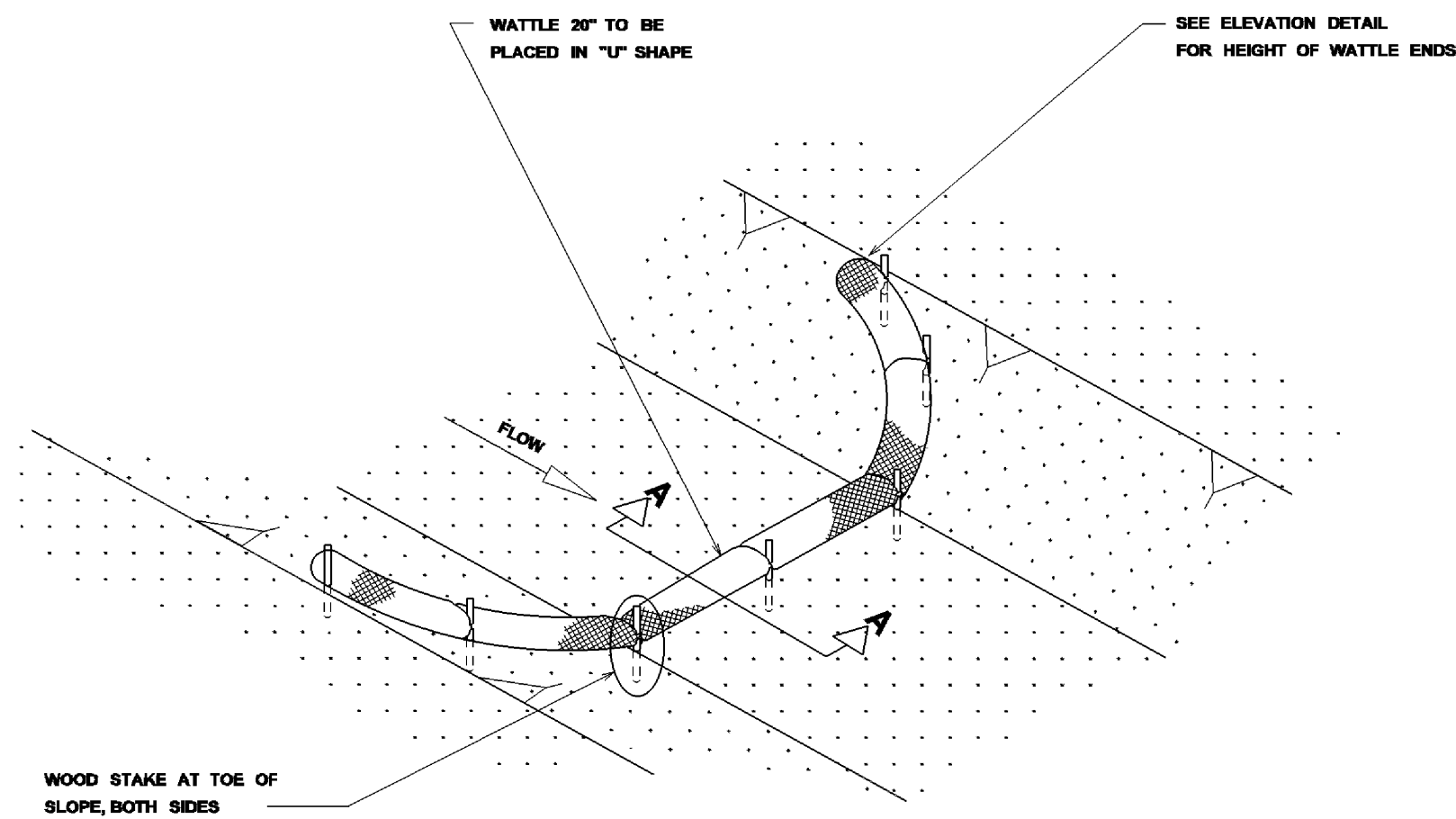


TEMPORARY BRUSH BARRIER

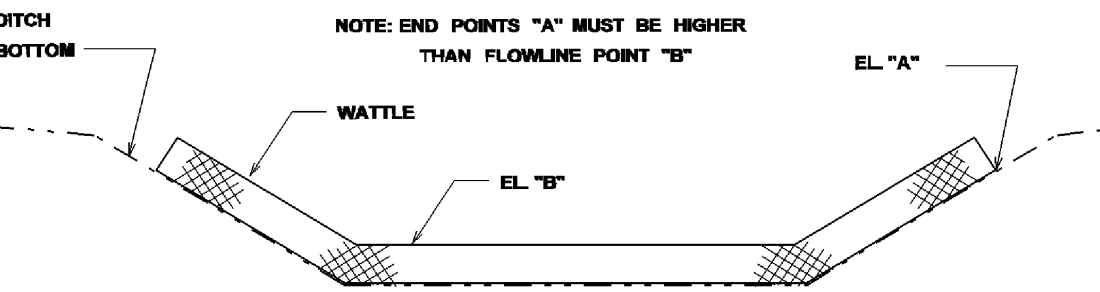
- NOTES:
1. BRUSH BARRIER TO BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
 2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED BY THE ENGINEER.
 3. TO ALLOW WATER TO FLOW THROUGH BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.

GENERAL NOTES:

1. THE CONTRACTOR SHALL BE REQUIRED TO FURNISH ALL MATERIALS AND PERFORM ALL WORK FOR THE PROPER INSTALLATION, MAINTENANCE AND REMOVAL OF TEMPORARY EROSION CONTROL MEASURES NECESSARY TO CONTROL SILTATION.
2. TEMPORARY BRUSH BARRIERS SHALL BE USED AS REQUIRED BUT WILL NOT BE MEASURED FOR SEPARATE PAYMENT.
3. THE USE OF TEMPORARY EROSION CONTROL MEASURES OTHER THAN TEMPORARY BRUSH BARRIERS WILL ONLY BE REQUIRED AND MEASURED FOR SEPARATE PAYMENT WHEN APPROPRIATE PAY ITEMS IS INCLUDED IN THE BID SCHEDULE OF THE PROPOSAL.

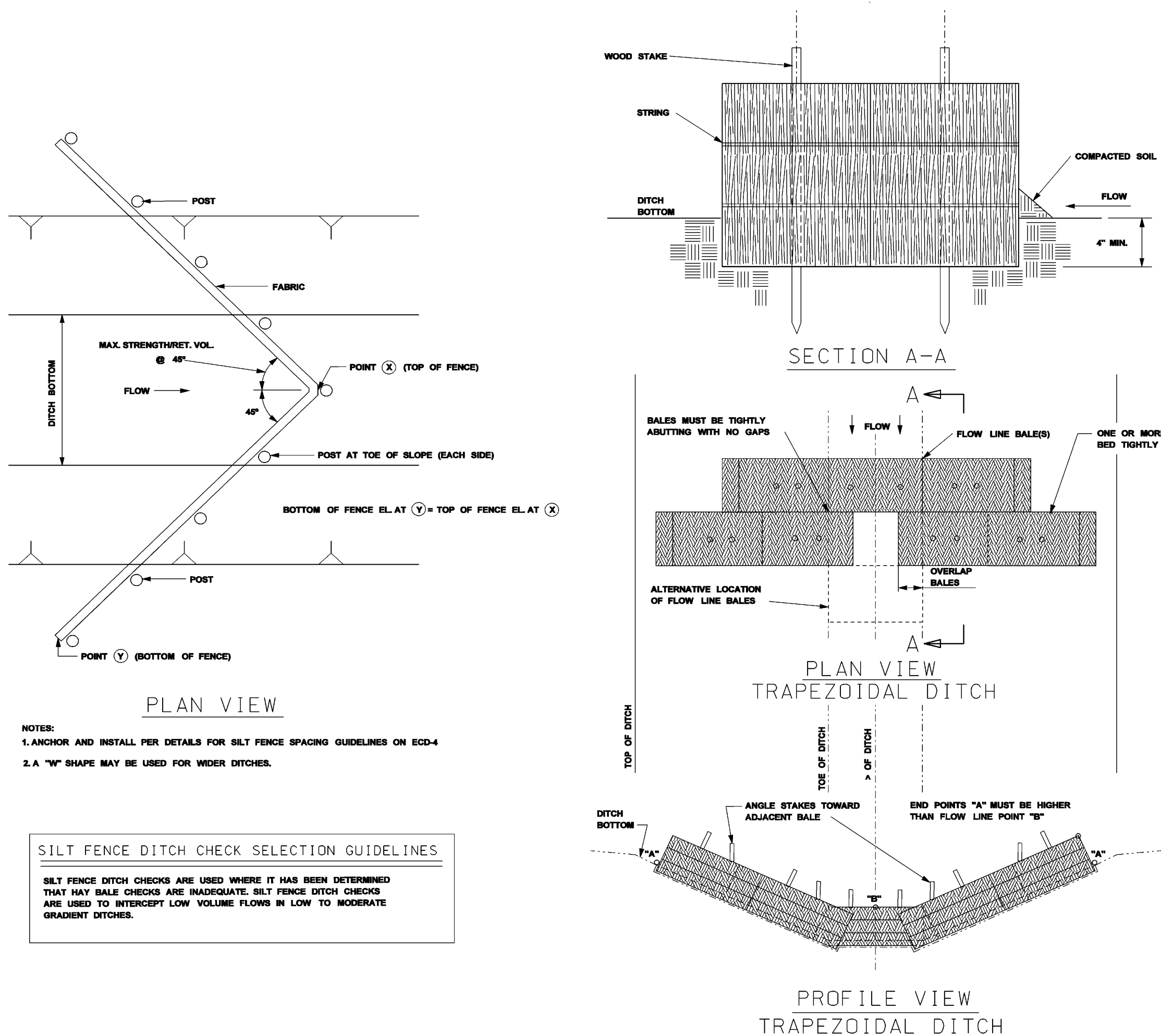


WATTLE DITCH CHECK SELECTION GUIDELINES



WATTLE DITCH CHECK SELECTION GUIDELINES

WATTLE DITCH CHECKS ARE APPROPRIATE FOR VELOCITY REDUCTION AND CONTROL OF SEDIMENT TRANSPORT UNDER LOW TO MEDIUM FLOW CONDITIONS.



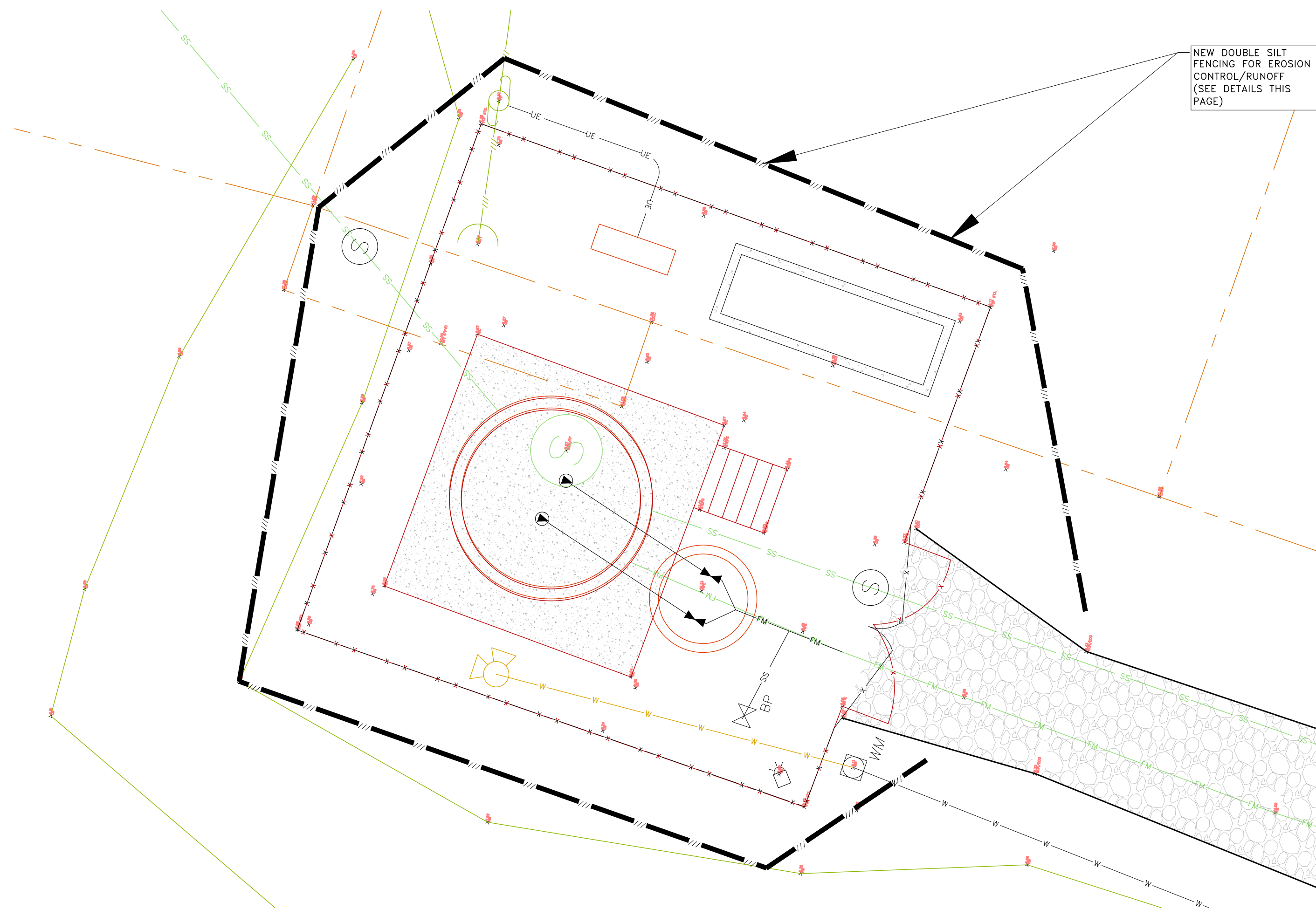
- NOTES:
1. ANCHOR AND INSTALL PER DETAILS FOR SILT FENCE SPACING GUIDELINES ON ECD-4
 2. A "W" SHAPE MAY BE USED FOR WIDER DITCHES.

SILT FENCE DITCH CHECK SELECTION GUIDELINES

SILT FENCE DITCH CHECKS ARE USED WHERE IT HAS BEEN DETERMINED THAT HAY BALE CHECKS ARE INADEQUATE. SILT FENCE DITCH CHECKS ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.

HAY BALE DITCH CHECK SELECTION GUIDELINES

HAY BALES ARE USED TO INTERCEPT LOW VOLUME FLOWS IN LOW TO MODERATE GRADIENT DITCHES.



SCALE: 1" = 5'-0"