

SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT

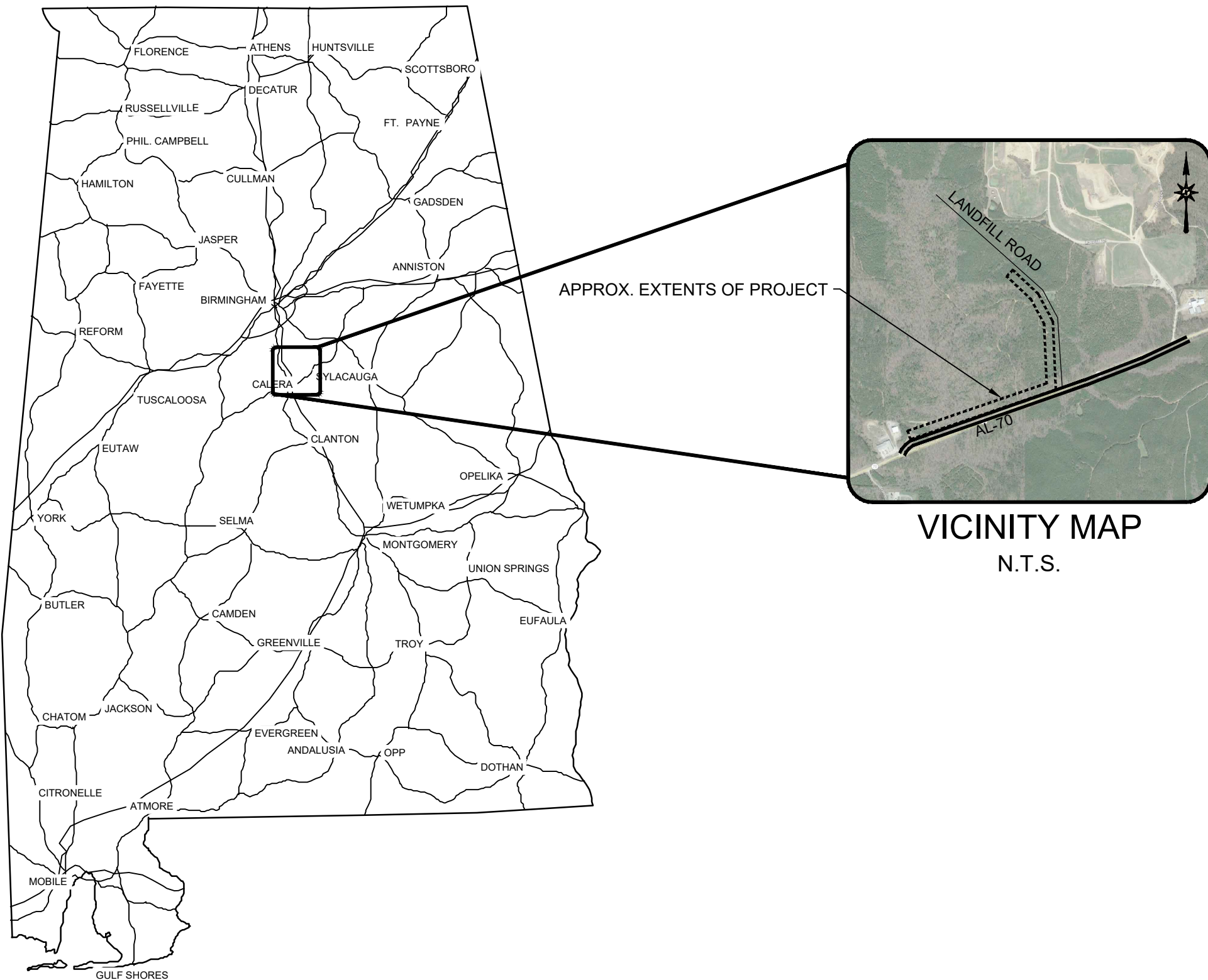
SR 70
COLUMBIANA, SHELBY COUNTY, AL
GSA PROJECT NO.: 24-0098

PLAN SUBMITTAL HISTORY

SUBMITTAL #	DESCRIPTION	DATE
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POINTS OF CONTACT

OWNER/DEVELOPER: TREY GAUNTT-CHIEF FACILITIES MANAGEMENT OFFICER SHELBY COUNTY FACILITIES AND GENERAL SERVICES 280 McDOW ROAD COLUMBIANA, AL 35051 (205) 670-6461 TREY@SHELBYAL.COM	CIVIL ENGINEERING CONSULTANT: CAREY DANIEL, PE GONZALEZ-STRENGTH & ASSOCIATES, INC. 1550 WOODS OF RIVERCHASE DRIVE HOOVER, AL 35244 (205) 942-2486 CDANIEL@GONZALEZ-STRENGTH.COM	SURVEYOR: DEREK MEADOWS, PLS GONZALEZ-STRENGTH & ASSOCIATES, INC. 1550 WOODS OF RIVERCHASE DRIVE HOOVER, AL 35244 (205) 942-2486 DMEADOWS@GONZALEZ-STRENGTH.COM	POWER COMPANY: CLAYTON BOWDEN ALABAMA POWER (205) 226-1760 CWBOWDEN@SOUTHERNCO.COM
ARCHITECT: STEPHEN COKER STEPHEN COKER ARCHITECT LLC 1000 GLEN VIEW RD. BIRMINGHAM, AL 35222 (205) 595-0021 STEVE@COKERARCH.COM	GEOTECHNICAL ENGINEER: BRYAN RITENOUR, P.E. TERRACON CONSULTANTS, INC. 2147 RIVERCHASE OFFICE RD. HOOVER, AL 35244 (205) 942-1289 BRYAN.RITENOUR@TERRACON.COM	STATE DEPARTMENT OF TRANSPORTATION: ANDREW PORTER ALABAMA DEPARTMENT OF TRANSPOTATION 3805 US-31 CALERA, ALABAMA 35040 (205) 668-0173 PORTERA@DOT.STATE.AL.US	SANITARY SEWER COMPANY: CITY OF CALERA SEWER DEPARTMENT 2273 5TH STREET CALERA, AL 35040 (205)668-3880
WATER COMPANY: CITY OF CALERA WATER DEPARTMENT 7901 HIGHWAY 31 CALERA, AL 35040 (205)668-3624	CITY ENGINEERING: BILL HILYER, P.E. CITY OF CALERA 7901 HIGHWAY 31 CALERA, AL 35040 (205)668-3886 BHILYER@CALERA.ORG		



SHEET INDEX MATRIX

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OW405	OFFSITE WATERMAIN EXTENSION PLAN & PROFILE
OW450	ONSITE/OFFSITE WATER DETAILS

BID SET

PLOT DATE: 06/04/2024

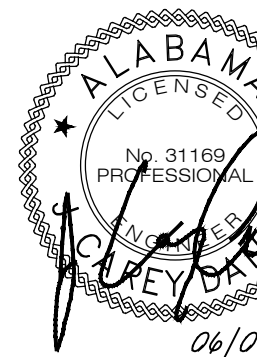


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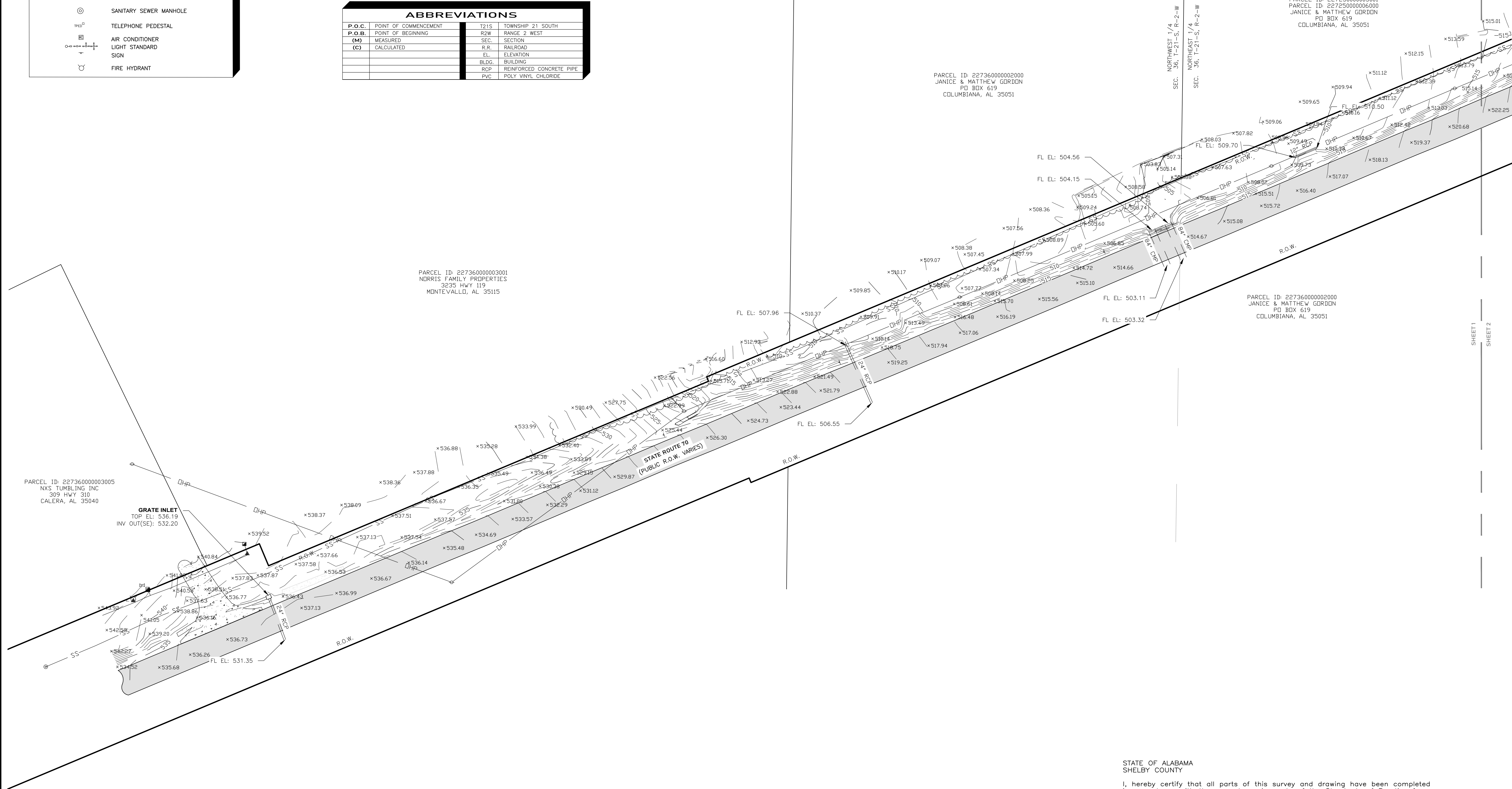
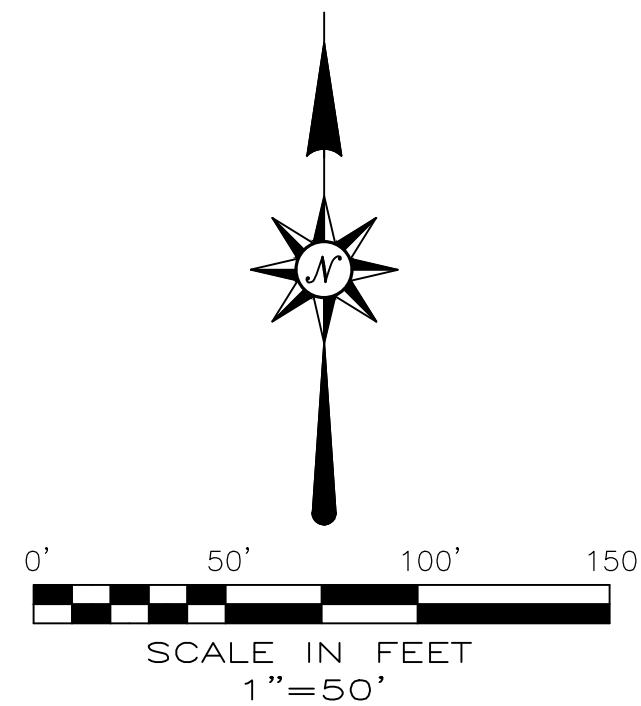
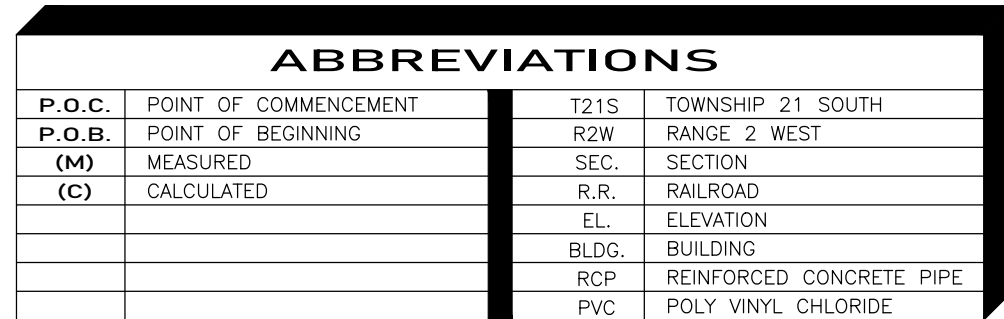
NO.	REVISIONS	DESCRIPTION	DATE
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OFFSITE WATERMAIN EXTENSION COVER SHEET
SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT
SR 70
COLUMBIANA, SHELBY COUNTY, AL
SHELBY CO. FACILITIES
COLUMBIANA, AL

GONZALEZ - STRENGTH & ASSOCIATES, INC.
CIVIL ENGINEERING - TRANSPORTATION ENGINEERING - LAND SURVEYING
LAND PLANNING - LANDSCAPE ARCHITECTURE
1550 WOODS OF RIVERCHASE DRIVE SUITE 200
HOOVER, ALABAMA 35244
PHONE: (205) 942-2486
FAX: (205) 942-3033
www.Gonzalez-Strength.com



DWG. NO.
OW000 R.0
PROJECT
24-0098



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Derek S. Meadows, PLS
Alabama License No. 29996

REVISIONS			
NO.	DESCRIPTION	DATE	
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QUARTER - SECTION

NORTHWEST ONE QUARTER SECTION 36
 NORTHWEST ONE QUARTER SECTION 35
 SOUTHEAST ONE QUARTER SECTION 25

SECTION 25 & 36	TOWNSHIP 21 SOUTH	RANGE 2 WEST
SECTION 25 & 36	TOWNSHIP 21 SOUTH	RANGE 2 WEST

TITLE		TOPOGRAPHIC SURVEY	
HIGHWAY 70			
HWY 70			
SHELBY COUNTY, ALABAMA			
FOR			
SHELBY CO FACILITIES AND GENERAL SERVICES			
DRAWN BY	CKG BY	SCALE	LAST FIELD SURVEY DATE
R.B.L.	D.S.M.	1"=50'	4-9-2024
CREW CHIEF	FIELD BOOK/PAGE	DWG. NAME	COORDINATE FILE
R.S.	N/A	R.S.-20078.dwg	24-0078.dwg

GONZALEZ - STRENGTH & ASSOCIATES, INC.
CIVIL ENGINEERING, LAND SURVEYING, PLANNING, TRAFFIC & TRANSPORTATION
1550 WOODS OF RIVERCHASE DRIVE - SUITE 200
HOOVER, ALABAMA 35244
PHONE: (205) 942-2486
FAX: (205) 942-3033
www.Gonzalez-Strength.com
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PROJECT
24-0098

GENERAL NOTES:

- BOUNDARY AND TOPOGRAPHIC SURVEY WAS PREPARED BY GONZALEZ-STRENGTH & ASSOCIATES, INC., DATE 04/09/2024. IF CONTRACTOR DOES NOT ACCEPT THE INFORMATION AS SHOWN ON THE PLANS, WITHOUT EXCEPTION, HE SHALL HAVE MADE, AT HIS EXPENSE, A BOUNDARY AND/OR TOPOGRAPHIC SURVEY BY A REGISTERED LAND SURVEYOR AND SUBMIT IT TO THE OWNER FOR REVIEW.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO BECOME FAMILIAR WITH THE PERMIT AND INSPECTION REQUIREMENTS OF THE VARIOUS GOVERNMENTAL AGENCIES. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO CONSTRUCTION, AND SCHEDULE INSPECTION ACCORDING TO AGENCY INSTRUCTION.
- ALL WORK PERFORMED SHALL COMPLY WITH THE REGULATIONS AND ORDINANCES OF THE VARIOUS GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THE WORK, INCLUDING LANDSCAPING.
- AT LEAST 3 WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL NOTIFY THE OWNER, ENGINEER AND APPROPRIATE AGENCIES AND SUPPLY THEM WITH ALL REQUIRED SHOP DRAWINGS, THE CONTRACTOR'S NAME, STARTING DATE, PROJECTED SCHEDULE, AND OTHER INFORMATION AS REQUIRED. ANY WORK PERFORMED PRIOR TO NOTIFYING THE OWNER & ENGINEER OF RECORD OR WITHOUT AGENCY INSPECTOR PRESENT MAY BE SUBJECT TO REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. FAILURE TO OBTAIN APPROVAL BEFORE INSTALLATION MAY RESULT IN REMOVAL AND REPLACEMENT AT THE CONTRACTOR'S EXPENSE. CONTRACTOR SHALL SUBMIT FOR REVIEW TO THE OWNER'S CONSTRUCTION MANAGER, SHOP DRAWINGS ON ALL PRECAST AND MANUFACTURED ITEMS TO USE ON THIS SITE. CONSTRUCTION MANAGER'S APPROVAL OF A SHOP DRAWING DOES NOT RELIEVE CONTRACTOR'S RESPONSIBILITY FOR PERFORMANCE OF THE ITEM.
- WORK PERFORMED UNDER THIS CONTRACT SHALL INTERFACE SMOOTHLY WITH OTHER WORK BEING PERFORMED ON SITE BY OTHER CONTRACTORS AND UTILITY COMPANIES. IT IS NECESSARY FOR THE CONTRACTOR TO COORDINATE AND SCHEDULE HIS ACTIVITIES, WHERE NECESSARY, WITH OTHER CONTRACTOR'S AND UTILITY COMPANIES.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- MATERIALS AND CONSTRUCTION METHODS FOR STREETS AND STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LOCAL REGULATORY AGENCY.
- CONTRACTOR SHALL REVIEW SOIL REPORTS AND BORINGS PRIOR TO BIDDING THE PROJECT AND COMMENCING CONSTRUCTION.
- THE CONTRACTOR SHALL USE EACH PLAN IN CONJUNCTION WITH THE ENTIRE SET OF DRAWINGS AND JOB SPECIFICATIONS. DO NOT REMOVE OR DEMOLISH ANYTHING WITHOUT VERIFYING AND COORDINATION WITH ALL ELECTRICAL, PLUMBING, MECHANICAL, GENERAL TRADES, AND UTILITY COMPANIES AS THEY EFFECT THE OVERALL PROJECT.
- REFER TO ARCHITECTURAL DRAWINGS FOR BUILDING DIMENSIONS, & UTILITY ENTRANCES.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS FOR EXACT DIMENSIONS, SLOPE PAVING, COLUMNS, DOOR LOCATIONS, SIDEWALKS, EXIT PORCHES, RAMPS, DRAINAGE CONNECTIONS, AND UTILITY ENTRANCE LOCATIONS.
- SEE COVER SHEET FOR LIST OF UTILITY COMPANIES AND CONTACT PERSONS.
- ALL NECESSARY PERMITS AND APPROVALS FROM AGENCIES GOVERNING THE CONSTRUCTION OF THIS WORK SHALL BE SECURED PRIOR TO BEGINNING CONSTRUCTION.
- ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- ALL WORK AND MATERIAL SHALL COMPLY WITH ALL REGULATORY AGENCY'S REGULATIONS AND CODES AND O.S.H.A. STANDARDS.
- PRIOR TO ANY WORK ON-SITE, THE CONTRACTOR SHALL CONTACT THE ONE CALL SYSTEM. THE CONTRACTOR IS RESPONSIBLE FOR ALL UTILITY REMOVALS WHETHER LOCATED BY THE ONE CALL SYSTEM OR NOT.

EROSION CONTROL NOTES:

- PRIOR TO CONSTRUCTION, THE EROSION AND SEDIMENT CONTROL MEASURES SHOWN ON THE EROSION CONTROL PLAN SHALL BE IN PLACE. CLEARING AND GRUBBING OPERATIONS WILL BE ENGAGED IN ONLY AS NECESSARY TO ALLOW THE PLACEMENT OF EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN UNTIL ALL SUCH MEASURES ARE IN PLACE. LAND DISTURBING ACTIVITIES SHALL BE KEPT TO A MINIMUM AND WILL NOT EXTEND BEYOND THE LIMITS SHOWN.
- CONTRACTOR SHALL INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS REQUIRED PRIOR TO ANY EARTHWORK OPERATIONS.
- SILT FENCES SHALL BE CLEANED OR REPLACED WHEN TRAPPED SEDIMENT REACHES 50 PERCENT OF THE ABOVE GROUND FENCE HEIGHT OR PER MANUFACTURER'S SPECIFICATIONS.
- SEDIMENT AND EROSION CONTROL MEASURES WILL BE INSPECTED ON A DAILY BASIS AND REPAIRED, ADJUSTED AND MAINTAINED AS NEEDED OR REQUIRED BY GOVERNING AGENCIES AT NO ADDITIONAL EXPENSE TO THE OWNER TO PROVIDE EROSION AND SEDIMENT CONTROL FOR THE DURATION OF CONSTRUCTION AND UNTIL ALL DISTURBED AREAS ARE STABILIZED.
- ALL EROSION CONTROL MEASURES EXCEPT THE REQUIRED RIP RAP ARE TEMPORARY DEVICES. THESE TEMPORARY DEVICES SHALL BE REMOVED PRIOR TO COMPLETION OF CONSTRUCTION ONCE STABILIZATION OF ALL GRASSED AREAS ARE COMPLETE.
- ADDITIONAL DEVICES MAY BE REQUIRED AS DEEMED NECESSARY BY GOVERNING AUTHORITIES.
- ALL GRADED AREAS SHALL BE STABILIZED WITH A PERMANENT FAST GROWING COVER AND/OR MULCH UPON COMPLETION OF GRADING OPERATIONS. COMPLETION OF GRADING OPERATIONS DOES NOT MEAN AT THE END OF THE PROJECT. AS SOON AS FINAL GRADES ARE ESTABLISHED IN AN UNPAVED AREA, THE CONTRACTOR SHALL STABILIZE WITH A TEMPORARY GRASS OR PERMANENT SOD. IF A TEMPORARY GRASS IS APPLIED, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO APPLY A PERMANENT SEED OR SOD AT THE PROPER TIME OF YEAR.
- FILL SLOPES SHOULD BE PLANTED AS SOON AS AN AREA OF THE SITE IS BROUGHT TO FINAL GRADE. SURFACE RUNOFF SHALL BE INTERCEPTED AT THE TOP OF TEMPORARY AND PERMANENT SLOPES DURING CONSTRUCTION SO THAT WATER IS NOT ALLOWED TO FLOW OVER THE SLOPE FACE.
- THE GENERAL CONTRACTOR AND THE GRADING CONTRACTOR SHALL REVIEW THERE PROPOSED GRADING SEQUENCE TO INSURE THAT THE LEAST AMOUNT OF LAND POSSIBLE AT ANY ONE TIME IS DISTURBED WITH OUT PERMANENT STABILIZATION.
- CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE COMPLIANCE WITH ALL PERMIT REQUIREMENTS. THIS INCLUDES, BUT IS NOT LIMITED TO, INSPECTION REQUIREMENTS.

GENERAL DEMOLITION NOTES & SPECIFICATIONS:

- THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED TO CARRY OUT THE WORK AS SHOWN ON THE DEMOLITION PLAN.
- THE CONTRACTOR IS RESPONSIBLE TO VERIFY EXISTING UTILITIES PRIOR TO DEMOLITION AND EXCAVATION.
- THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL LOCAL, STATE AND FEDERAL REGULATIONS IN THE REMOVAL/DEMOLITION OF HAZARDOUS MATERIALS.
- CONTRACTOR IS RESPONSIBLE FOR ALL REGISTRATIONS, PERMITS AND FEES REQUIRED TO REMOVE AND PROPERLY DISPOSE OF ALL DEMOLITION MATERIALS.
- DEMOLITION CONTRACTOR IS RESPONSIBLE FOR OBTAINING APPROVALS AND NOTIFICATIONS TO ALL LOCAL, STATE AND FEDERAL AUTHORITIES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION OF THE

- UTILITY SERVICES TO THE EXISTING STRUCTURES PRIOR TO DEMOLITION OF ANY BUILDINGS. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES.
- THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANY CONCERNING PORTIONS OF WORK WHICH MAY BE PERFORMED BY THE UTILITY COMPANY'S FORCES AND ANY FEES WHICH ARE TO BE PAID TO THE UTILITY COMPANY FOR THEIR SERVICES. THE CONTRACTOR IS NOT RESPONSIBLE FOR PAYING ALL FEES AND CHARGES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION AND REMOVAL OF ALL STRUCTURES, PADS, WALLS, FLUMES, FOUNDATIONS, PARKING, DRIVES, DRAINAGE STRUCTURES, UTILITIES, ETC., SUCH THAT THE IMPROVEMENTS SHOWN ON THE REMAINING PLANS CAN BE CONSTRUCTED. ALL FACILITIES TO BE REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT TO GRADE WITH SUITABLE, COMPACT FILL MATERIAL PER THE SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS INVOLVED AND IS RESPONSIBLE FOR REMOVING AND DUMPING THE DEBRIS IN AN APPROVED, LAWFUL MANNER.
- IF NOT SHOWN ON THE DEMOLITION DRAWINGS, THE CONTRACTOR SHALL REMOVE ALL EXISTING MATERIALS AS NECESSARY TO COMPLETE ALL NEW WORK AS REQUIRED BY OTHER PORTIONS OF THE CONTRACT DOCUMENTS.
- ALL EXISTING UTILITIES ARE TO BE REMOVED, TERMINATED AND CAPPED AT THE RIGHT-OF-WAY. ALL EXISTING METERS, VALVES, ETC. ARE TO BE REMOVED UNLESS OTHERWISE NOTED ON THE PLANS.
- ALL EXISTING SERVICE LINES FOR TELEPHONE, ELECTRIC, SEWER, AND CABLE TELEVISION SERVICES ARE TO BE REMOVED TO EXISTING TRUNK LINES UNLESS OTHERWISE NOTED.
- ALL EXISTING FENCES, SIGNS, POWER POLES, AND LIGHT POLES LOCATED ON-SITE SHALL BE DEMOLISHED AND REMOVED UNLESS OTHERWISE NOTED.
- CONTRACTOR IS RESPONSIBLE FOR ALL COSTS INVOLVED IN THE REMOVAL OR RELOCATION OF ANY UTILITY. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH APPLICABLE UTILITY COMPANIES.
- THE CONTRACTOR SHALL MAINTAIN ALL UTILITY SERVICES TO THE EXISTING ADJACENT BUSINESSES AT ALL TIMES. THE CONTRACTOR SHALL COORDINATE WITH THE TENANT AND UTILITY COMPANY FOR THE RELOCATION AND/OR REMOVAL OF UTILITIES IF NECESSARY. SERVICES SHALL NOT BE INTERRUPTED WITHOUT APPROVAL FROM THE TENANT.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES THAT MAY HAVE UTILITIES ON THE SITE TO GET A DETERMINATION IF ANY UTILITIES EXISTING WILL BE IMPACTED. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING IF THE UTILITIES SHOULD BE ABANDONED OR REMOVED.
- ALL AREAS WHERE PAVEMENT, STRUCTURE SLABS, FOUNDATIONS, UTILITIES, CONDUITS, AND/OR UTILITY STRUCTURES HAVE BEEN REMOVED SHALL BE BACKFILLED WITH SELECT BACKFILL MATERIAL. ALL SELECT BACKFILL MATERIAL SHALL BE PLACED AND COMPACTED PER THE REQUIREMENTS OF SPECIFICATIONS AND THE OWNERS GEOTECHNICAL ENGINEER.
- EXISTING CAST IN PLACE SEPTIC TANKS (IF FOUND ON-SITE) SHALL BE PUMPED BY A LICENSED CONTRACTOR. THE SEPTIC TANK SHALL THEN BE REMOVED AND THE AREA BACKFILLED PER THE PROJECT SPECIFICATIONS UNLESS OTHERWISE NOTED. ALL WORK SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT REQUIREMENTS.
- CONTRACTOR IS RESPONSIBLE FOR WALKING SITE AND DETERMINING EXTENTS OF DEMOLITION WORK PRIOR TO BID DATE.
- CONTRACTOR SHALL COORDINATE REMOVAL OF EXISTING ELECTRICAL SERVICES ON-SITE WITH THE POWER COMPANY. POWER COMPANY IS RESPONSIBLE FOR THE DISCONNECTION AND REMOVAL OF EXISTING SERVICES UNLESS OTHERWISE NOTED.
- LIMITS OF PAVEMENT SHOWN TO BE REMOVED ARE APPROXIMATE AND FOR REFERENCE ONLY. CONTRACTOR SHALL FIELD VERIFY THE LIMITS OF PAVEMENT TO DETERMINE THE EXTENT OF THE EXISTING PAVEMENT TO BE REMOVED.
- SALVAGE RIGHTS FOR ALL DEMOLISHED MATERIALS SHALL BE FIRST GIVEN TO THE OWNER. ANY MATERIALS NOT RETAINED BY THE OWNER SHALL BE REMOVED FROM THE SITE AND DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- CONDITIONS EXISTING AT TIME OF INSPECTION FOR BIDDING PURPOSE WILL BE MAINTAINED BY OWNER AS FAR AS PRACTICAL.
- CONTRACTOR TO MAINTAIN AND PROTECT ALL EXISTING UTILITIES FROM DAMAGE DURING DEMOLITION OPERATIONS.
- DRAIN, PURGE AND OTHERWISE REMOVE COLLECT AND DISPOSE OF CHEMICALS, CASES, EXPLOSIVES, ACIDS, FLAMMABLES OR OTHER DANGEROUS MATERIALS BEFORE PROCEEDING WITH DEMOLITION OPERATIONS ACCORDING TO APPLICABLE CODES OR REGULATIONS.
- REMOVE AND TRANSPORT DEBRIS IN A MANNER THAT WILL PREVENT SPILLAGE ON ADJACENT SURFACES AND AREAS.
- PROMPTLY DISPOSE OF DEMOLISHED MATERIALS. DO NOT ALLOW DEMOLISHED MATERIALS TO ACCUMULATE ON-SITE.
- DO NOT BURN DEMOLISHED MATERIALS.
- IT IS UNDERSTOOD THAT ALL ABOVE GROUND ITEMS TO BE REMOVED INCLUDE THEIR ASSOCIATED BELOW GROUND COMPONENTS (I.E. FOUNDATIONS, UTILITY CONNECTIONS, ETC.)
- ALL TREES INSIDE THE LIMITS OF DISTURBANCE ARE TO BE REMOVED UNLESS NOTED OTHERWISE.
- EXISTING STRUCTURES WITHIN CONSTRUCTION LIMITS ARE TO BE ABANDONED, REMOVED, OR RELOCATED PER PLANS. ALL COST SHALL BE INCLUDED IN BASE BID.

SITE PLAN NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL RELOCATIONS, INCLUDING BUT NOT LIMITED TO, ALL UTILITIES, STORM DRAINAGE, SIGNS, TRAFFIC SIGNALS AND POLES, ETC. AS REQUIRED FOR ALL SITE IMPROVEMENTS. ALL WORK SHALL BE IN ACCORDANCE WITH GOVERNING AUTHORITIES SPECIFICATIONS AND SHALL BE APPROVED BY SUCH.
- EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION, ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER OR ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL AREAS INDICATED TO REMAIN UNDISTURBED OR TO REMAIN AS BUFFERS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OR DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB, ETC., AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL UNDERGROUND UTILITIES WITH HIS WORK. ALL UNDERGROUND UTILITIES (WATER, SANITARY SEWER, STORM SEWER, ELECTRICAL CONDUIT, IRRIGATION SYSTEMS, AND ANY OTHER MISCELLANEOUS UTILITIES) SHALL BE IN PLACE PRIOR TO THE PLACEMENT OF BASE COURSE MATERIAL, AND THE PLACEMENT OF ANY APPROPRIATE SOIL STABILIZATION TECHNIQUE.
- CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.
- CONTRACTOR SHALL MATCH EXISTING PAVEMENT IN GRADE AND ALIGNMENT.
- CONSTRUCTION SHALL COMPLY WITH ALL GOVERNING CODES AND IMPROVEMENTS SHALL BE CONSTRUCTED TO THE SAME.

GRADING PLAN NOTES:

- EXISTING CONTOURS INTERVAL IS SHOWN AT ONE FOOT (1').
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO NOTIFY OWNER AND/OR ENGINEER OF ANY UTILITY CONFLICTS WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- ALL CUT OR FILL SLOPES SHALL BE 3:1 OR FLATTER UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION.
- CLEARING AND GRUBBING LIMITS SHALL INCLUDE ALL AREAS DISTURBED BY GRADING OPERATIONS. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION OF ALL UNDISTURBED AREAS, ALL PROPERTY CORNERS, AND COORDINATION OF A REGISTERED LAND SURVEYOR TO REPLACE ALL PINS ELIMINATED OR DAMAGED DURING CONSTRUCTION.
- EXISTING DRAINAGE STRUCTURES TO REMAIN ARE TO BE INSPECTED AND REPAIRED AS NEEDED, AND EXISTING PIPES TO BE CLEANED OUT TO REMOVE ALL SILTS AND DEBRIS.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. AND ALL REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- ALL UN-SURFACED AREAS DISTURBED BY GRADING OPERATIONS SHALL RECEIVE FOUR INCHES (4") OF TOPSOIL, SEED, MULCH, WATER, ETC. CONTRACTOR SHALL GRASS DISTURBED AREAS IN ACCORDANCE WITH THE LANDSCAPE PLAN AND CITY/COUNTY SPECIFICATIONS UNTIL HEALTHY STAND OF GRASS IS OBTAINED.
- PROPOSED SPOT ELEVATIONS REPRESENT FINISHED PAVEMENT OR GROUND SURFACE GRADE UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL TRIM, TACK, AND MATCH EXISTING PAVEMENT AT LOCATIONS WHERE NEW PAVEMENT MEETS EXISTING PAVEMENT.
- REFERENCE STRUCTURAL SPECIFICATIONS AND GEOTECHNICAL REPORT FOR BUILDING PAD PREPARATION AND COMPACTION.
- CONTRACTOR TO REVIEW BORING LOGS PROVIDED BY THE CLIENT.
- ALL STORM SEWER MANHOLES IN PAVED AREAS SHALL BE FLUSH WITH PAVEMENT, AND SHALL HAVE TRAFFIC BEARING RING AND COVERS.
- EXISTING MANHOLE TOPS, VALVE BOXES, ETC. TO REMAIN ARE TO BE ADJUSTED AS REQUIRED TO MATCH PROPOSED GRADES. IF NECESSARY, RE-ADJUSTMENTS SHALL BE PERFORMED UPON COMPLETION OF PAVING AND FINE GRADING TO ENSURE A SMOOTH TRANSITION.
- THE CONTRACTOR SHALL ADHERE TO ALL TERMS AND CONDITIONS AS OUTLINED IN THE GENERAL N.P.D.E.S. PERMIT FOR STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITIES.
- CONTRACTOR SHALL ASSURE POSITIVE DRAINAGE AWAY FROM BUILDING AND FOR ALL NATURAL AND PAVED AREAS.
- ALL RETAINING WALLS TO BE PROTECTED DURING BACKFILL BY CONTRACTOR. THIS INCLUDES BUT IS NOT LIMITED TO, PROVIDING AND INSTALLING PROPER BRACING DURING BACKFILL BEING PLACES ADJACENT TO RETAINING WALLS.

UTILITY NOTES:

- THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) AS SHOWN ON THE THESE PLANS IS BASED ON RECORD ON EITHER THE VARIOUS UTILITY COMPANIES, VISUAL OBSERVATIONS AT THE SITE, EXISTING SURVEYS AND/OR WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO DETERMINE THE EXACT LOCATIONS OF EXISTING UTILITIES (ABOVE AND BELOW GROUND) BEFORE BEGINNING ANY CONSTRUCTION. THE CONTRACTOR MUST CALL THE APPROPRIATE UTILITY COMPANY AT LEAST FORTY-EIGHT HOURS (48 HRS) BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATION OF UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS.
- CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL EXISTING STORM SEWER STRUCTURES, PIPES, AND ALL UTILITIES PRIOR TO CONSTRUCTION. EXISTING UTILITY LINES SHOWN ARE APPROXIMATE LOCATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LINE LOCATIONS PRIOR TO ANY CONSTRUCTION. ANY DEVIATIONS FROM THE DESIGN LOCATIONS SHALL BE REPORTED TO THE OWNER AND ENGINEER OF RECORD PRIOR TO CONSTRUCTION.
- CONTRACTOR TO REMOVE OR RELOCATE WHEN APPLICABLE, ALL EXISTING BUILDINGS, FOUNDATIONS, AND CONNECTING IMPROVEMENTS, DRAIN PIPES, SANITARY SEWER PIPE, POWER POLES AND GUY WIRES, WATER METERS AND WATER LINES, WELLS, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, SEPTIC TANKS, AND ASPHALT, SHOWN AND NOT SHOWN, WITHIN CONSTRUCTION LIMITS AND WHERE NEEDED, TO ALLOW FOR FILL MATERIAL, UNLESS OTHERWISE DENOTED, TO BE REMOVED AS UNCLASSIFIED EXCAVATION.
- CONTRACTOR IS RESPONSIBLE FOR REPAIRS OF DAMAGE TO ANY EXISTING IMPROVEMENTS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, UTILITIES, PAVEMENT, STRIPING, CURBS, ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS.
- CONTRACTOR SHALL REFER TO ARCHITECT'S PLANS AND SPECIFICATIONS FOR ACTUAL LOCATION OF ALL UTILITY ENTRANCES TO INCLUDE SANITARY SEWER, LATERALS, DOMESTIC AND FIRE PROTECTION WATER SERVICE, ELECTRICAL, AND TELEPHONE. CONTRACTOR SHALL COORDINATE INSTALLATION OF UTILITIES IN SUCH A MANNER AS TO AVOID CONFLICTS AND ASSURE PROPER DEPTHS ARE ACHIEVED AS WELL AS COORDINATING WITH CITY UTILITY REQUIREMENTS AS TO LOCATIONS AND SCHEDULING FOR TIE-INS/CONNECTIONS PRIOR TO CONNECTING EXISTING FACILITIES.
- CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL PLANS, POWER COMPANY, & TELEPHONE COMPANY FOR ACTUAL ROUTING OF POWER AND TELEPHONE SERVICE TO BUILDING.
- SEE DETAIL SHEETS FOR BACKFILLING AND COMPACTION REQUIREMENTS ON UTILITY TRENCHES.
- CONTRACTOR SHALL COMPLY TO THE FULLEST EXTENT WITH THE LATEST STANDARD OF OSHA DIRECTIVES OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR SHALL USE SUPPORT SYSTEMS, SLOPING, BENCHING, AND OTHER MEANS OF PROTECTION. THIS TO INCLUDE BUT NOT LIMITED TO, ACCESS AND EGRESS FROM ALL EXCAVATION AND TRENCHING. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH THE PERFORMANCE CRITERIA FOR OSHA.
- CONTRACTOR SHALL COORDINATE WITH OTHER UTILITIES TO ASSURE PROPER DEPTH AND PREVENT ANY CONFLICT OF UTILITIES.
- THE MINIMUM HORIZONTAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS TEN (10) FEET, OR MINIMUM VERTICAL SEPARATION BETWEEN THE CLOSEST TWO POINTS OF THE WATER AND SEWER LINE IS EIGHTEEN (18) INCHES.
- CONTRACTOR SHALL GROUT AROUND ALL PIPE ENTRANCES TO SANITARY SEWER MANHOLES WITH NON-SHRINKING GROUT TO ASSURE CONNECTION IS WATER TIGHT.
- CONTRACTOR SHALL ON ALL UTILITIES, COORDINATE INSPECTION WITH THE APPROPRIATE AUTHORITIES PRIOR TO COVERING TRENCHES AT INSTALLATION.
- THE CONTRACTOR SHALL CONDUCT ALL REQUIRED TESTS TO THE SATISFACTION OF THE RESPECTIVE UTILITY COMPANIES AND OWNERS INSPECTING AUTHORITIES.
- SITE CONTRACTOR TO COORDINATE PROPOSED RECONNECTION OF ALL UTILITIES WITH ARCHITECTURAL PLANS AS WELL AS UTILITY COMPANIES AND BUILDING CONTRACTOR. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL EXPENSES THAT RESULT FROM DELAYED OR FAILED TEST DURING ANY PHASE OF THE CONSTRUCTION PROCESS. THIS INCLUDES FEES INCURRED THROUGH RESCHEDULING OF ANY EQUIPMENT TO ACCOMMODATE.

- ALL WATER AND SANITARY SEWER CROSSINGS TO BE PERPENDICULAR WITH A FULL STICK OF DUCTILE IRON PIPE IN THE SEWER LINES AT THE CROSSING OR AS INDICATED ON THE PLANS.
- CONTRACTOR TO COORDINATE WITH SIGNAGE CONTRACTOR AND ARCHITECT FOR EXACT LOCATION OF SIGNAGE, REQUIRED ELECTRICAL CONDUITS, FOUNDATIONS, ETC.
- CONTRACTOR SHALL PROVIDE BOLLARDS FOR PROTECTION OF ALL ABOVE GROUND UTILITIES AND APPURTENANCES ADJACENT TO DRIVE AREAS.

MU — TEMPORARY MULCHING
MUA — PERMANENT MULCHING

MULCHING APPLICATION REQUIREMENTS	
MATERIAL	RATE
Straw or hay	2 1/2 Ton/Acre
Wood waste, chips, sawdust, bark	6 to 9 Ton/Acre
Polyethylene film	Secure with soil, anchors, weights
Geotextiles, jute matting, netting, etc.	Install per manufacturer specifications

TS — TEMPORARY SEEDING

SPECIES		BROADCAST Rates per Acre 1000 SF	PLS	RESOURCE	REMARKS
SUDANGRASS					
ALONE	NORTH	40 lbs.	0.9 lb.		
	SOUTH	10 lbs.	0.2 lb.		
WHEAT					
ALONE	NORTH	3 bu	3.9 lb.		
	SOUTH	(168 lbs.)			
MILLET, BROWNTOP (Panicum fasciculatum)					
ALONE	NORTH	40 lbs.	0.9 lb.		137,000 SEED PER POUND QUICK DENSE COVER WILL PROVIDE TOO MUCH COMPETITION IN MIXTURES IF SEEDER AT HIGH RATES
	SOUTH	10 lbs.	0.2 lb.		
RYE (Secale cereale)					
ALONE	NORTH	3 bu	3.9 lb.		18,000 SEED PER POUND DENSE COVER DROUGHT TOLERANT AND WINTER- HARDY
	SOUTH	1/2 bu (28 lbs.)	0.6 lb.		
RYEGRASS, ANNUAL (Lolium temulentum)					
ALONE	NORTH	30 lbs.	0.7 lb.		227,000 SEED PER POUND DENSE COVER VERY COMPETITIVE AND IS NOT TO BE USED IN MIXTURES
	SOUTH				
COMMON BERMOUDAGRASS					
ALONE	NORTH	10 lbs.	0.25 lb.		
	SOUTH				
CRimson CLOVER					
ALONE	NORTH	10 lbs.	0.25 lb.		
	SOUTH				

PS — PERMANENT SEEDING

Construction Specifications:

Timing:
Apply permanent seeding on areas left dormant for 1 year or more.
Apply permanent seeding when no further disturbances are planned.
To determine optimum seeding schedule, consult a local agronomist or erosion control specialist.
Apply permanent seeding before seasonal rains or freezing weather is anticipated.
Use dormant seeding for late fall or winter seeding schedules.
Seed Mixes:
Use seeds appropriate to the season and site conditions.
Consult local agronomist or erosion control specialists for seed mix.
Use a seed blend to include annuals, perennials and legumes.
Use seed rates based on pure live seed (PLS) of 80%. When PLS is below 80% adjust rates accordingly.
Site Preparation:
Bring the planting area to final grade and install the necessary erosion control practices.
Divert concentrated flows away from the seeded area.
Conduct soil test to determine pH and nutrient content. Roughen the soil by harrowing, tracking, grooving or furrowing.
Apply amendments as needed to adjust pH to 6.0-7.5. Incorporate these amendments into the soil.
Prepare a 3-5 inch (76-127 mm) deep seeded, with the top 3-4 inches (76-102 mm) consisting of topsoil.

The seedbed should be firm but not compact. The top three inches of soil should be loose, moist and free of large clods and stones.
The topsoil surface should be in reasonably close conformity to the lines, grades and cross sections shown on the grading plans.
Planting:
Seed to soil contact is the key to good germination.
Seed should be applied immediately after seedbed preparation while the soil is loose and moist. If the seedbed has been idle long enough for the soil to become compact, the topsoil should be harrowed with a disk, spring tooth drag, spike tooth drag, or other equipment designed to conditions the soil for seeding.
Harrowing, tracking or furrowing should be done horizontally across the face of the slope.
Seed to soil contact is the key to good germination.
Always apply seed before applying mulch.
Apply seed at the rates specified using calibrated seed spreaders, cyclone seeders, mechanical drills, or hydroseeder so the seed is applied uniformly on the site.
Broadcast seed should be incorporated into the soil by raking or chain dragging, and then lightly compacted to provide good seed-soil contact.
Apply fertilizer as specified.
Apply mulch or erosion control blanket, as specified, over the seeded areas. Inspection and Maintenance:
Newly seeded areas need to be inspected frequently to ensure the grass is growing.
If the seeded area is damaged due to runoff, additional stormwater measures may be needed.
Spot seeding can be done on small areas to fill in bare spots where grass did not grow properly.

NOTE: DURING "HIGH FAILURE" MONTHS SEEDING CONTRACTOR TO SPREAD MULCH OR HAY FOR SLOPE STABILIZATION.
*USE A MINIMUM OF 40 LBS. SCARIFIED SEED. REMANER MAY BE UNSCARIFIED, CLEAN HILLED SEED.
*USE EITHER COMMON SERIAL OR INTERSTATE SERIAL LEVEESEA.
*ALL AREAS TO BE SEEDER SHALL HAVE LIME APPLIED AT A RATE OF 90 LB./1000 SF. LIME AND FERTILIZER TO BE APPLIED PRIOR TO APPLICATION OF SEED AND MIXED THOROUGHLY WITH THE SOIL.
*ALL AREAS SEEDER SHALL HAVE AN APPLICATION OF STRAW MULCH (APPROXIMATELY 2 1/2 TONS PER ACRE) IMMEDIATELY AFTER PLANTING REGARDLESS OF PLANTING METHOD.
*MAINTAIN 1 YEAR MINIMUM
*FERTILIZER: AGRICULTURAL LIME 1 TON PER ACRE
0-12-12 OR 5-10-15 1000 LB. PER ACRE
*VEGETATIVE MEASURES SHALL BE PER ALDUT OR ALABAMA EROSION HANDBOOK STANDARD REQUIREMENTS AND SPECIFICATIONS

PS - PERMANENT SEEDING

N.T.S.

GENERAL REQUIREMENTS

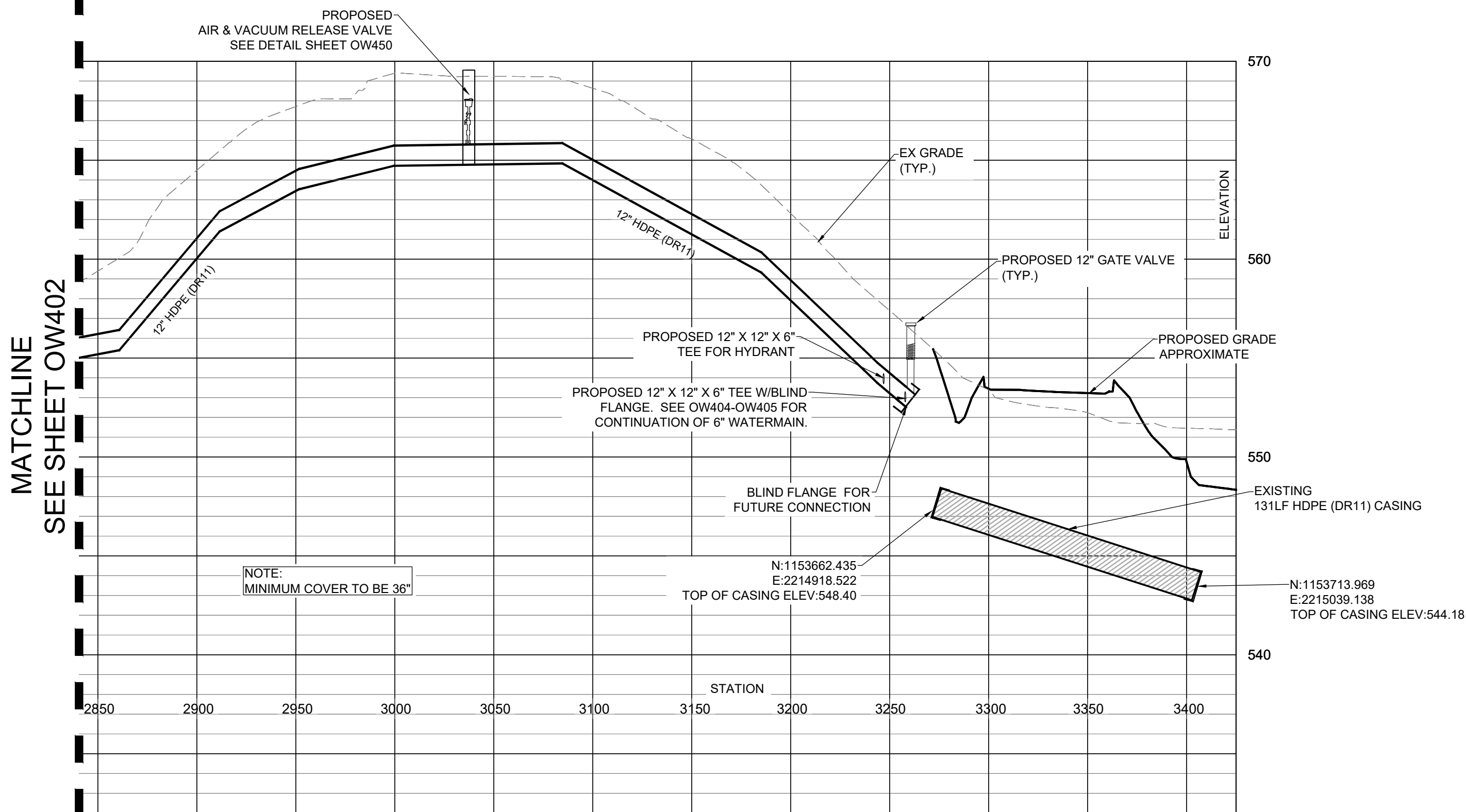
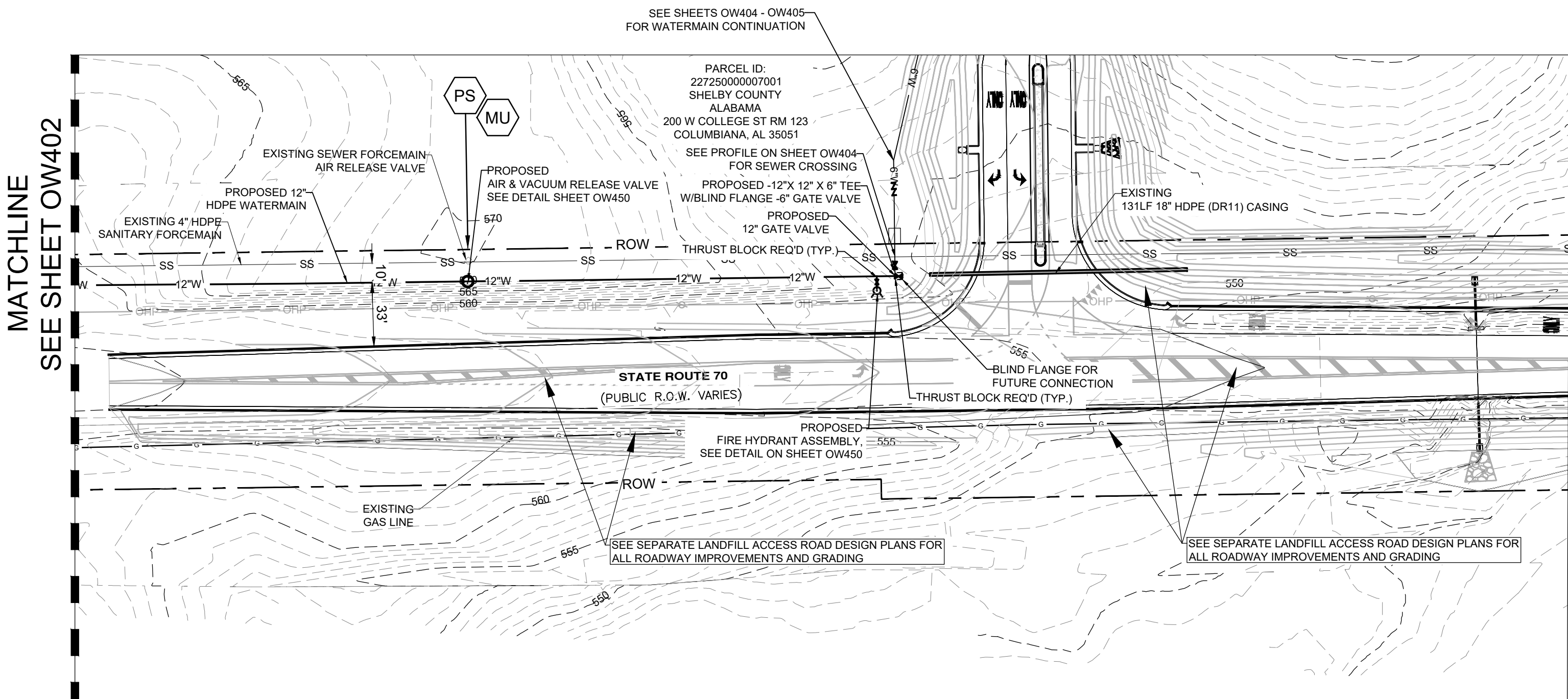
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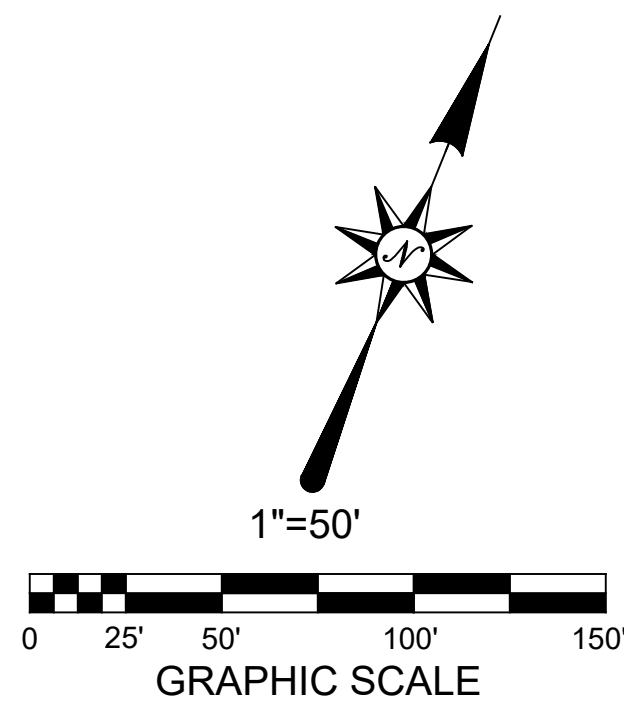


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HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



LEGEND

PS MU PERMANENT SEEDING & MULCH REQ.

GENERAL NOTES:

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- PRESSURE TEST & BAC-T TEST SHALL BE COORDINATED WITH THE CITY OF CALERA AND PAID FOR BY THE CONTRACTOR.
- ALL PROPOSED WATER LINES (12" AND 6") SHALL BE INSPECTED BY THE CITY OF CALERA. COORDINATE WITH ERIC COST (205-668-3870).
- MIN. HORIZONTAL SEPARATION BETWEEN EXISTING SANITARY SEWER FORCEMAIN AND PROPOSED WATERMAIN SHALL BE 10'.
- MINIMUM COVER SHALL BE 36"
- TRACER WIRE REQUIRED ALONG LIMITS OF WATERMAIN. INSTALL PER CITY OF CALERA STANDARD REQUIREMENTS & SPECIFICATIONS.
- ALL DISTURBED AREAS TO BE STABILIZED WITH PERMANENT SEEDING AND MULCHING.



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NOTE: AS A FIRST ORDER OF BUSINESS AND PRIOR TO ANY WORK BEGINNING, THE CONTRACTOR SHALL HAVE ALL EXISTING UTILITIES ON AND ADJACENT TO THE SITE LOCATED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FAMILIARIZE HIMSELF WITH THE LOCATIONS OF THE UTILITIES AND AVOID ALL CONFLICTS. ANY SERVICE INTERRUPTIONS AND/OR ASSOCIATED COSTS ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE EXISTING UTILITIES SHOWN HEREIN ARE TO BE CONSIDERED APPROXIMATE. THE CONTRACTOR SHALL RELOCATE ANY EXISTING UTILITY WHICH CONFLICTS WITH THE IMPROVEMENTS SHOWN. THE CONTRACTOR SHALL COORDINATE ALL UTILITY ADJUSTMENTS WITH THE APPROPRIATE UTILITIES COMPANIES. ALL IMPROVEMENTS SHALL MEET THE REQUIREMENTS OF EACH COMPANY'S STANDARDS OR SPECIFICATIONS.

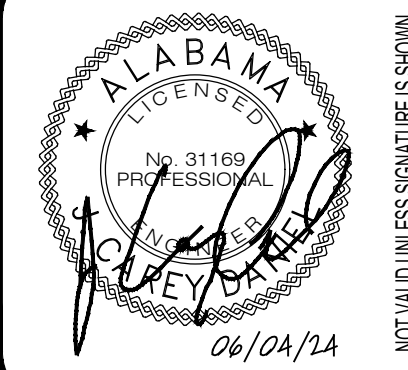
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OFFSITE WATERMAIN EXTENSION PLAN & PROFILE

SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT

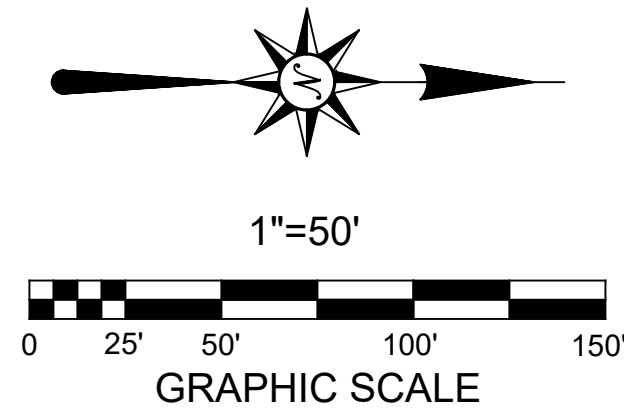
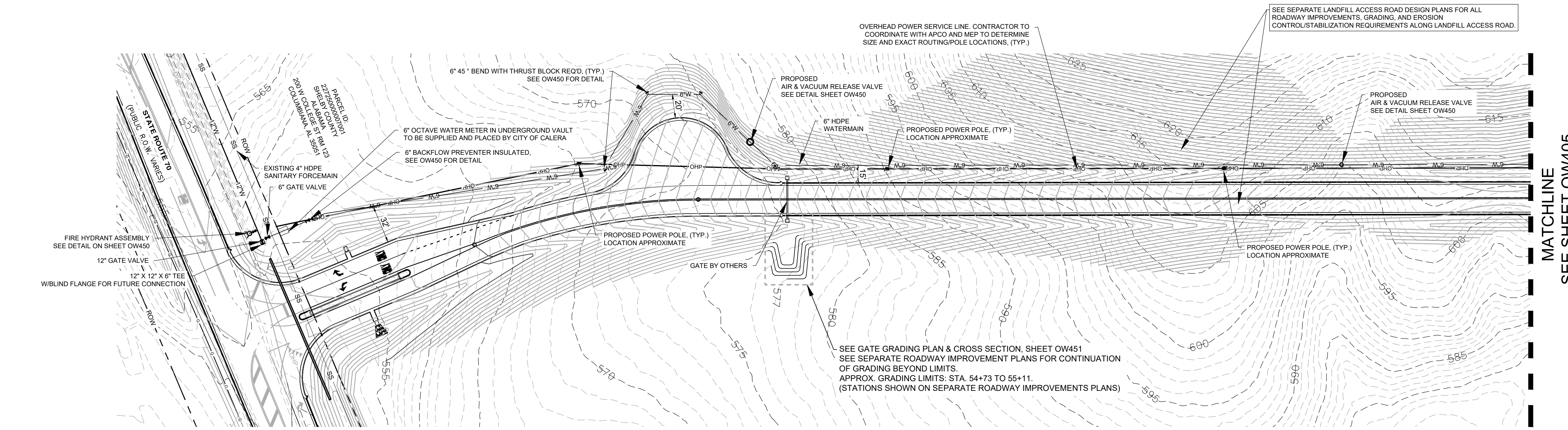
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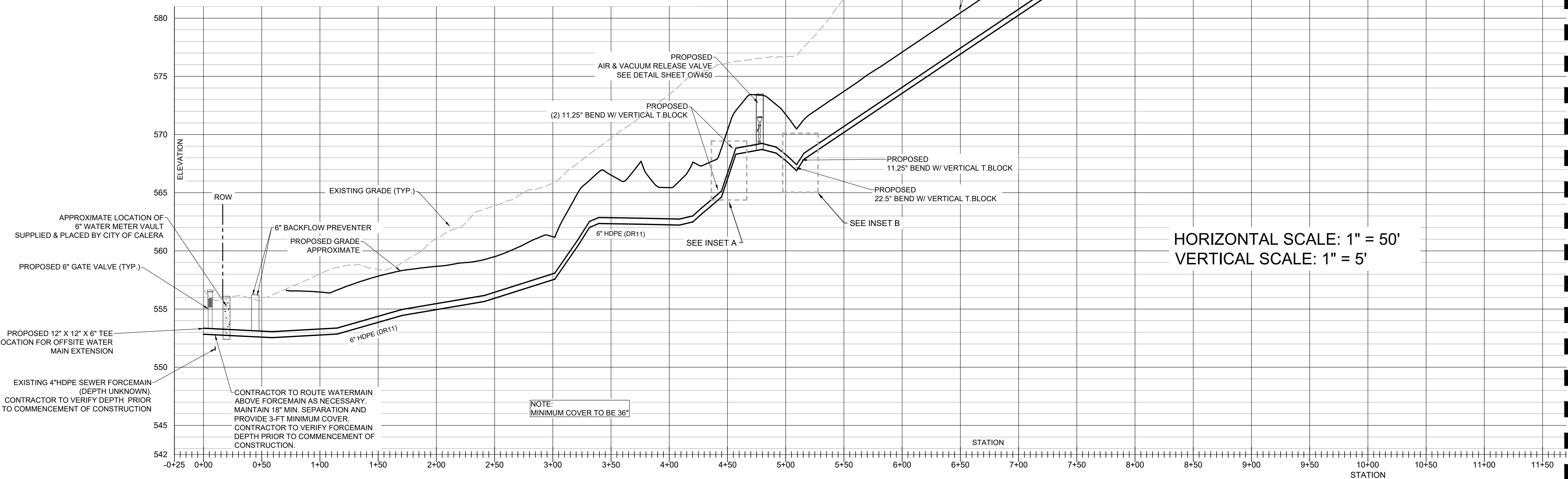
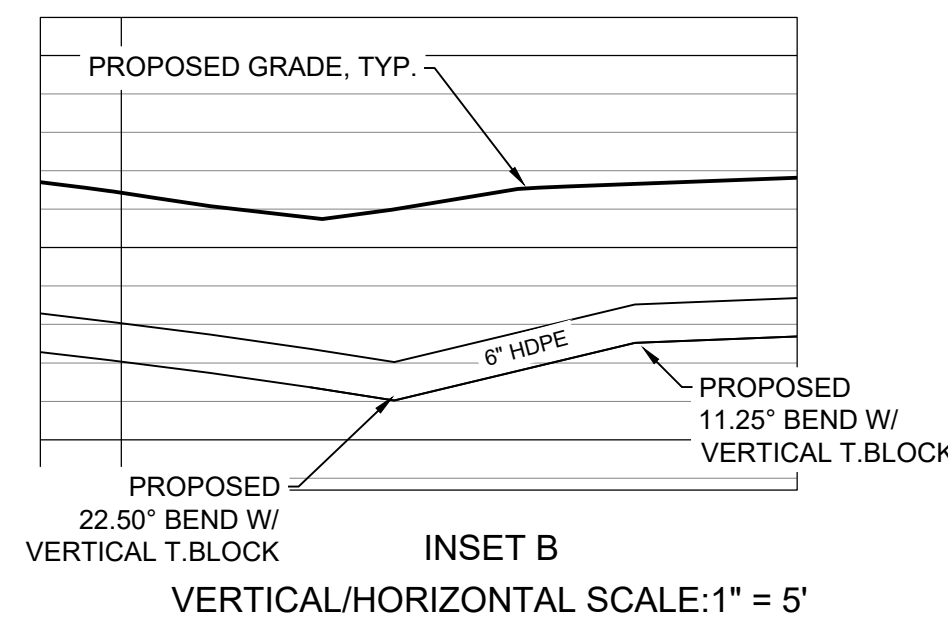
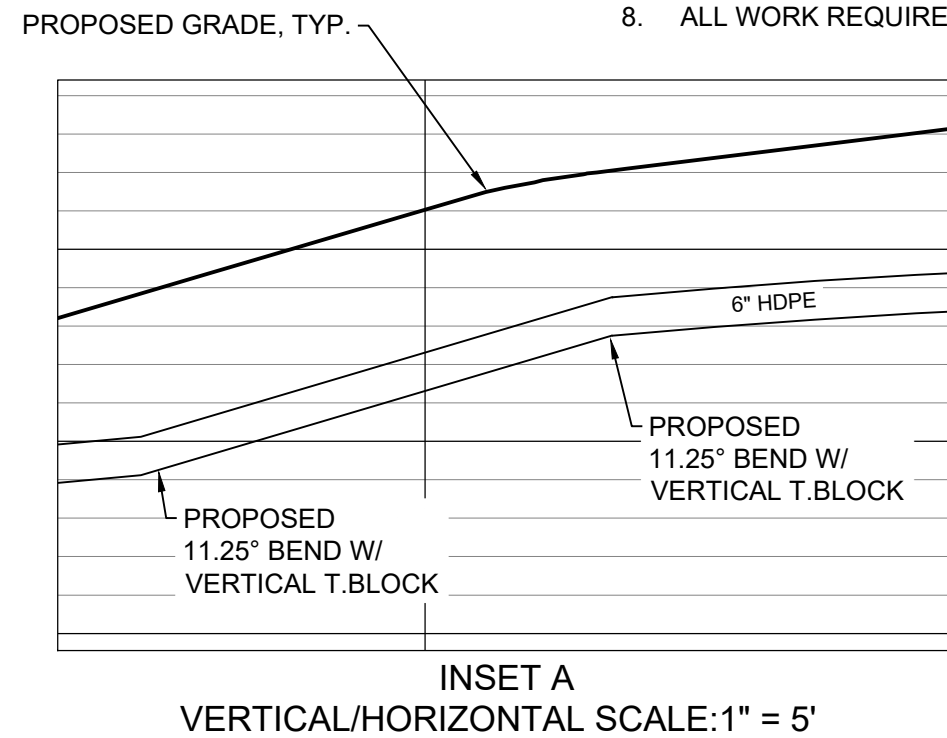


06/04/24

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OW403 R 0
PROJECT
24-0098



- GENERAL NOTES:**
1. ALL WORK TO BE PERFORMED PER CITY OF CALERA WATER DEPARTMENT STANDARD REQUIREMENTS & SPECIFICATIONS.
 2. PRESSURE TEST & BAC-T TEST SHALL BE COORDINATED WITH THE CITY OF CALERA AND PAID FOR BY THE CONTRACTOR.
 3. ALL PROPOSED WATER LINES (12" AND 6") SHALL BE INSPECTED BY THE CITY OF CALERA. COORDINATE WITH ERIC COST (205-668-3870).
 4. MIN. HORIZONTAL SEPARATION BETWEEN EXISTING SANITARY SEWER FORCEMAIN AND PROPOSED WATERMAIN SHALL BE 10'.
 5. MINIMUM COVER SHALL BE 36"
 6. TOPOGRAPHIC DATA TAKEN FROM ROADWAY DESIGN PLANS. GRADING SHOWN FOR REFERENCE ONLY.
 7. TRACER WIRE REQUIRED ALONG LIMITS OF WATERMAIN. INSTALL PER CITY OF CALERA REQS. AND SPECIFICATIONS.
 8. ALL WORK REQUIRED TO LOWER THE 4" HDPE SEWER LINE IF REQUIRED SHALL BE SUBSIDIARY TO THE WATER LINE INSTALLATION.



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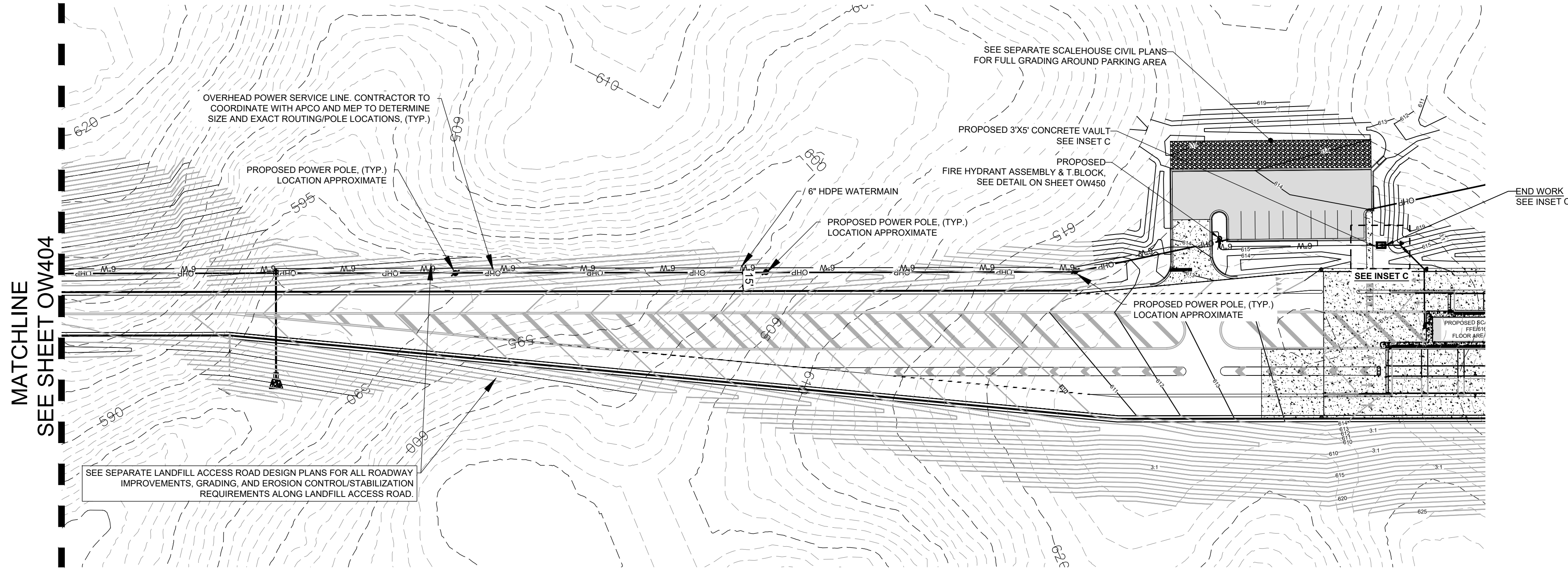
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ONSITE WATERMAIN EXTENSION PLAN & PROFILE
SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT
SR 70
COLUMBIANA, SHELBY COUNTY, AL
SHELBY CO. FACILITIES
COLUMBIANA, AL

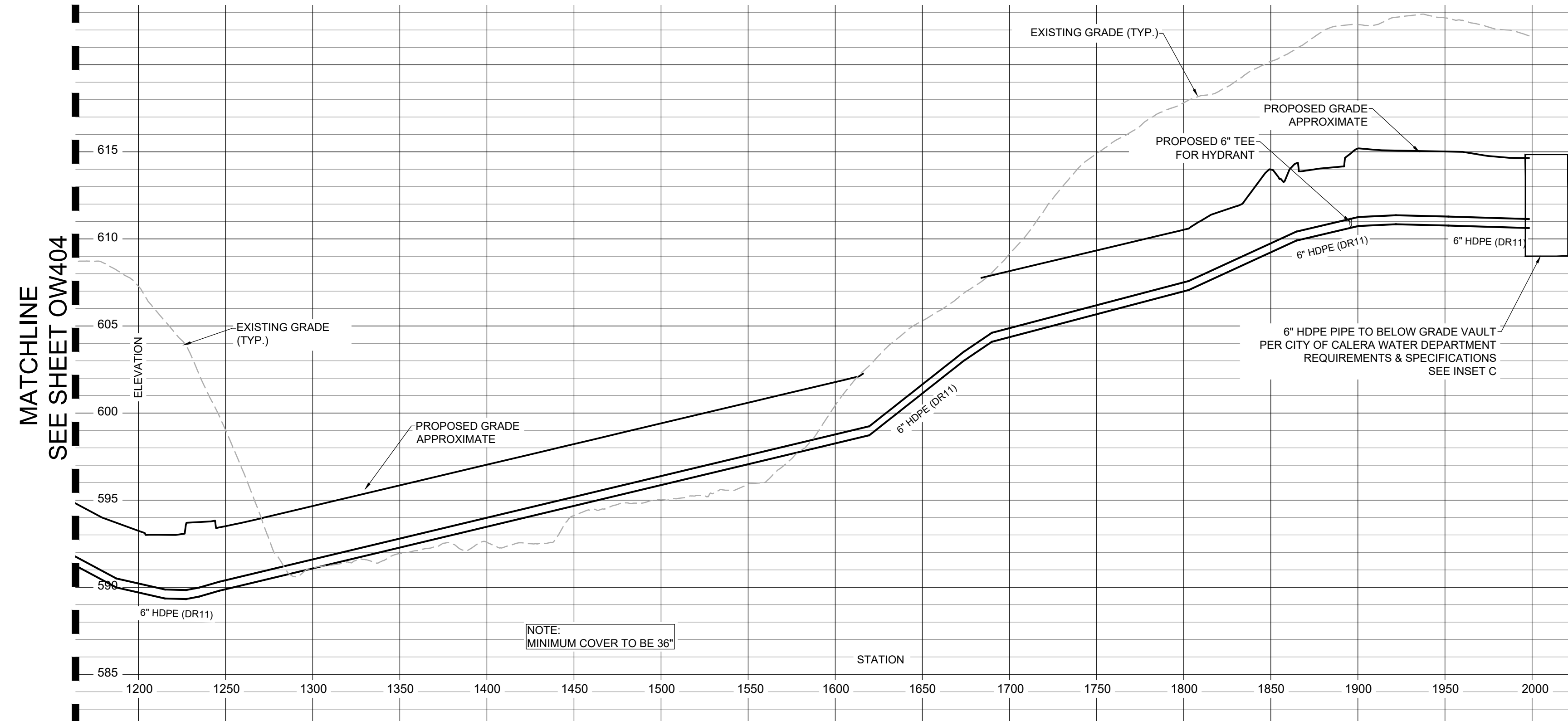
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- GENERAL NOTES:
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 - TRACER WIRE REQUIRED ALONG LIMITS OF WATERMAIN. INSTALL PER CITY OF CALERA REGS. AND SPECIFICATIONS.



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ONSITE WATERMAIN EXTENSION PLAN & PROFILE

SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT

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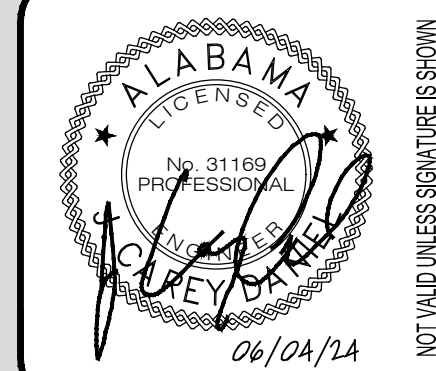
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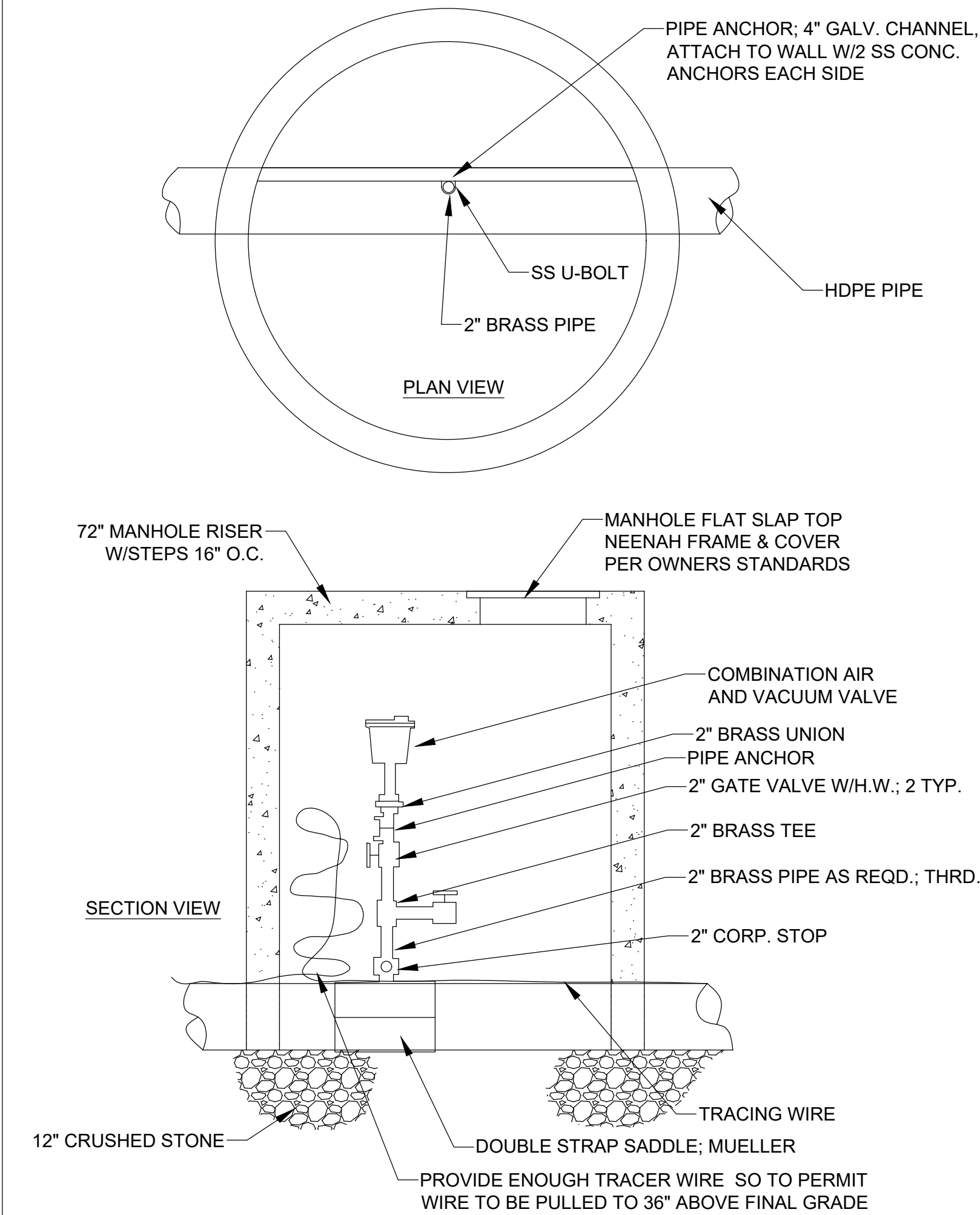
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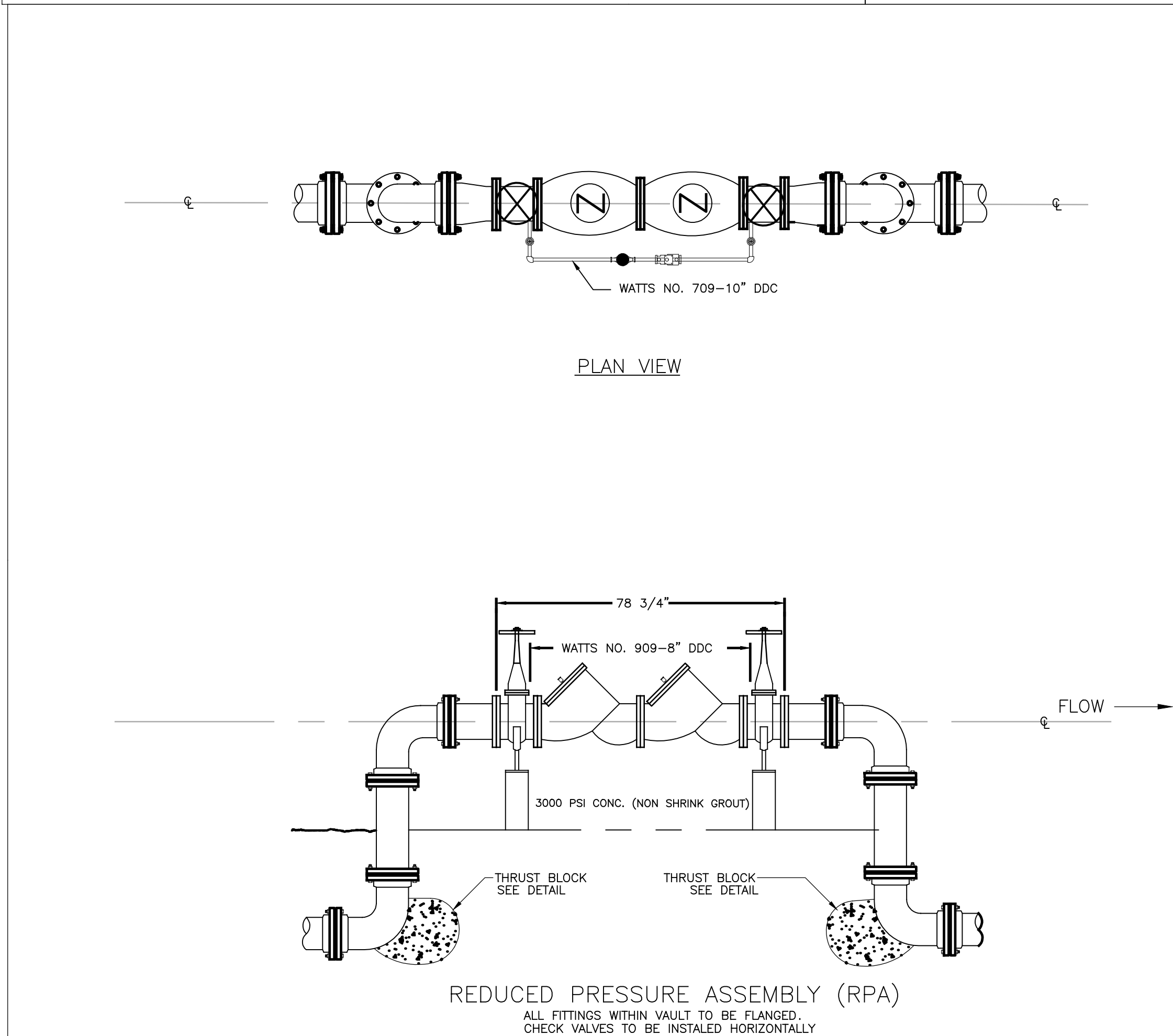
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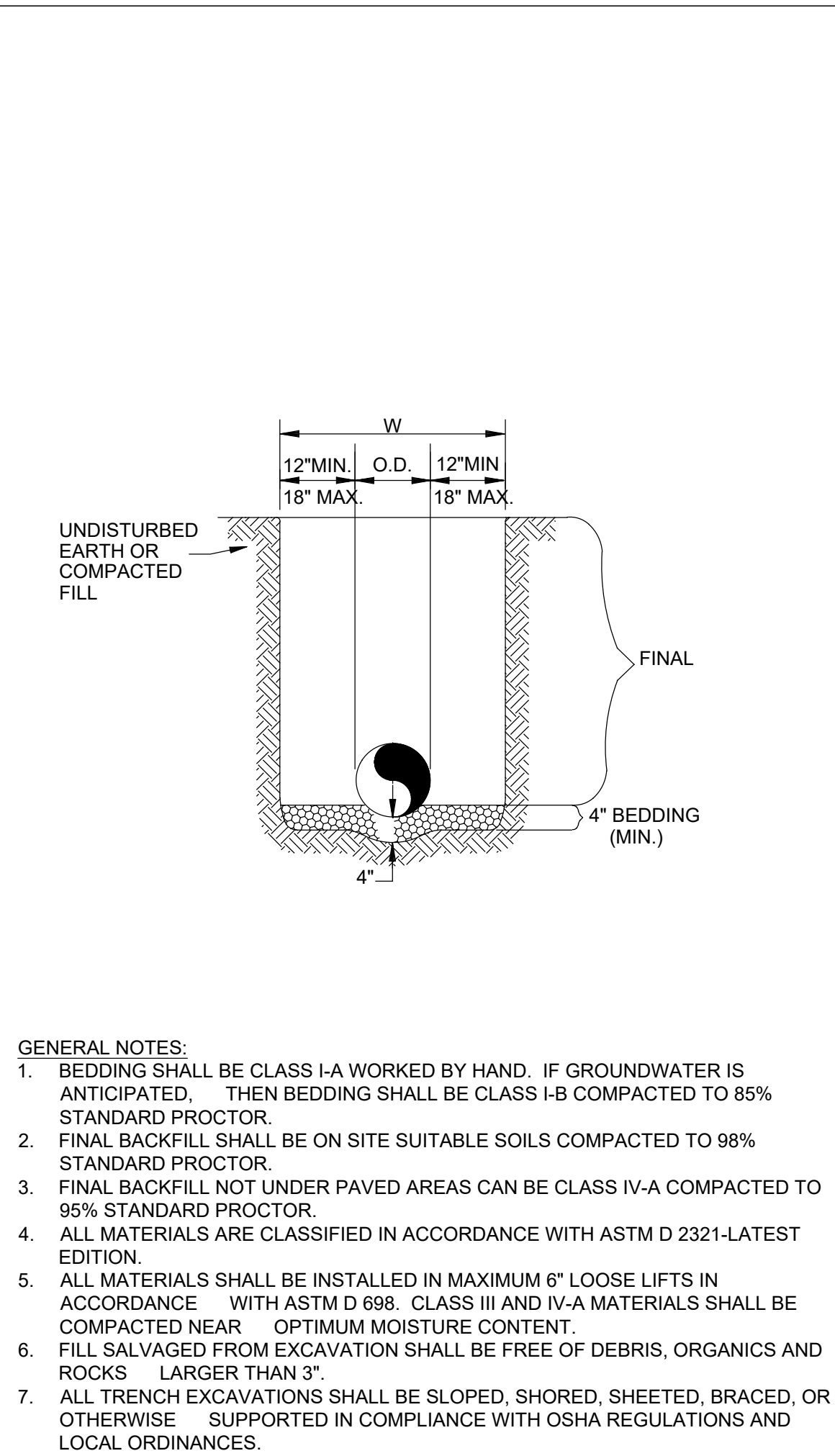
TYPICAL VALVE BOX SETTING

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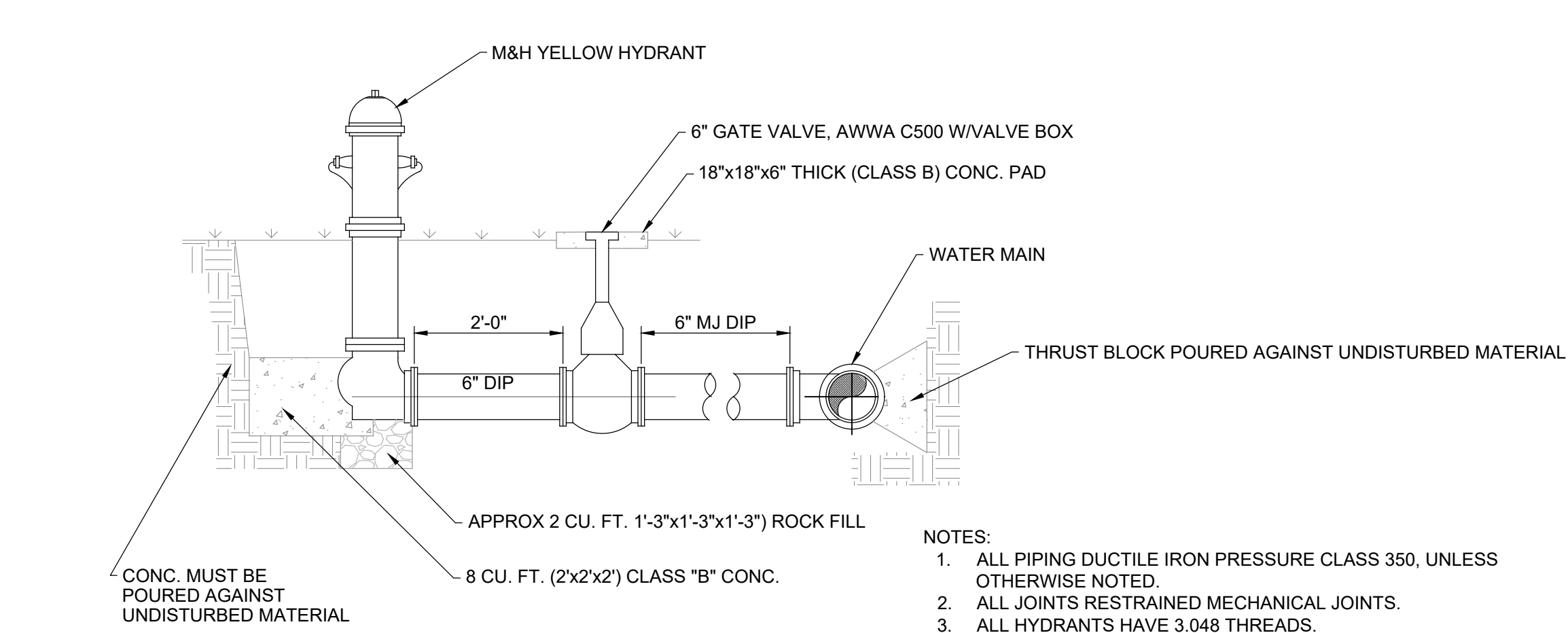
REDUCED PRESSURE ASSEMBLY DETAIL

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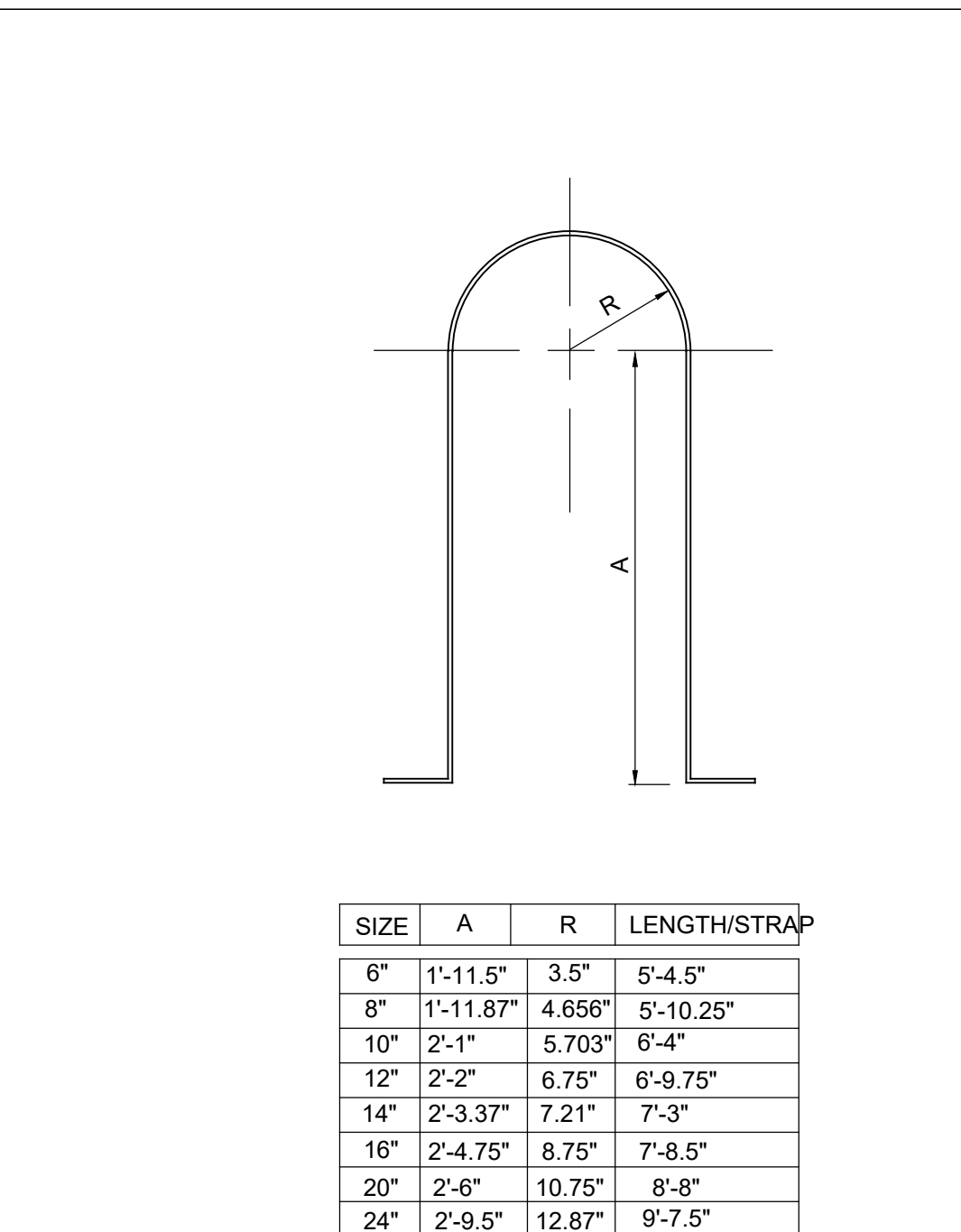
PIPE BEDDING DETAIL

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FIRE HYDRANT ASSEMBLY DETAIL

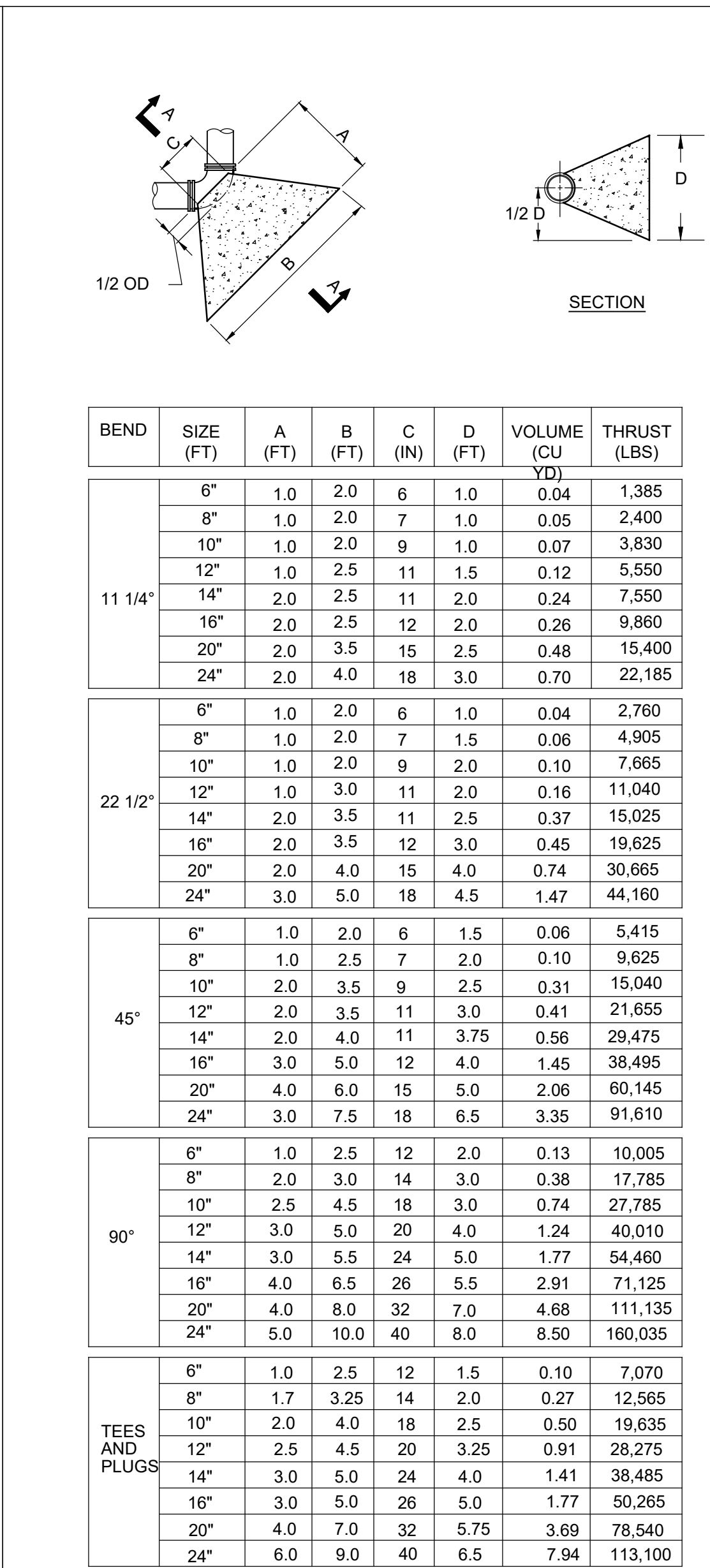
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BEND	SIZE	A (FT)	B (FT)	C (FT)	D (FT)	WIDTH (FT)	CU YDS
11 1/4"	6"	2.0	2.0	1.0	1.83	2.0	0.29
	8"	2.33	3.0	1.5	2.08	2.0	0.51
	10"	2.75	2.75	1.37	2.5	2.75	0.78
	12"	3.0	3.33	1.5	2.67	3.0	1.11
	14"	3.0	4.0	1.67	2.67	3.33	1.48
22 1/2"	16"	4.0	4.0	1.67	3.67	3.33	2.22
	20"	4.08	5.0	2.0	3.75	4.17	3.69
	24"	5.08	5.0	2.33	4.67	4.75	4.22
	6"	2.83	2.6	1.25	2.33	2.5	0.56
	8"	3.33	3.0	1.5	2.75	3.0	1.01
45°	10"	3.91	4.0	2.0	3.08	3.0	1.54
	12"	4.17	4.0	3.0	3.41	4.0	2.19
	14"	4.33	5.0	2.5	3.33	4.0	2.98
	16"	4.5	5.0	2.5	3.5	5.0	3.68
	20"	5.33	5.5	2.75	4.17	6.0	6.07
90°	24"	6.33	6.58	3.33	5.08	6.0	8.75
	6"	3.5	3.0	1.5	1.75	3.25	1.08
	8"	3.75	4.0	2.0	1.83	4.0	1.19
	10"	4.5	4.0	2.0	2.25	5.0	2.92
	12"	4.5	4.17	2.08	2.25	5.0	3.06
TEES AND PLUGS	14"	5.5	5.25	2.58	2.75	6.0	5.83
	16"	6.08	6.0	3.0	3.0	6.0	7.41
	20"	7.08	7.0	3.5	3.5	7.0	11.88
	24"	7.75	8.0	4.0	3.83	8.0	17.29

VERTICAL THRUST BLOCKS

N.T.S.



- NOTES**
- SOIL CONDITIONS SHALL BE VERIFIED BY THE ENGINEER BEFORE THRUST BLOCK DESIGN IS IMPLEMENTED.
- DESIGN DATA**
- DIMENSION OF THRUST BLOCK IN FEET BASED ON 2000 POUNDS PER SQUARE FOOT SOIL BEARING PRESSURE. ACTUAL INSIDE DIAMETER OF D.I.P., CLASS 50, 250 PSI TEST PRESSURE.
 - CONCRETE SHALL BE CLASS A, 3000 PSI
 - UNDER ADVERSE CONSTRUCTION CONDITIONS, CONCRETE SHALL BE "HIGH EARLY" TYPE.

HORIZONTAL THRUST BLOCKS

N.T.S.

ONSITE/OFFSITE WATER DETAILS

SHELBY COUNTY LANDFILL SCALE HOUSE WATER MAIN PROJECT

SR 70

COLUMBIANA, SHELBY COUNTY, AL

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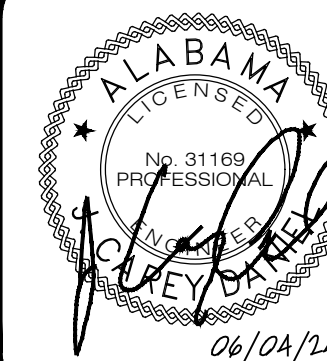
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