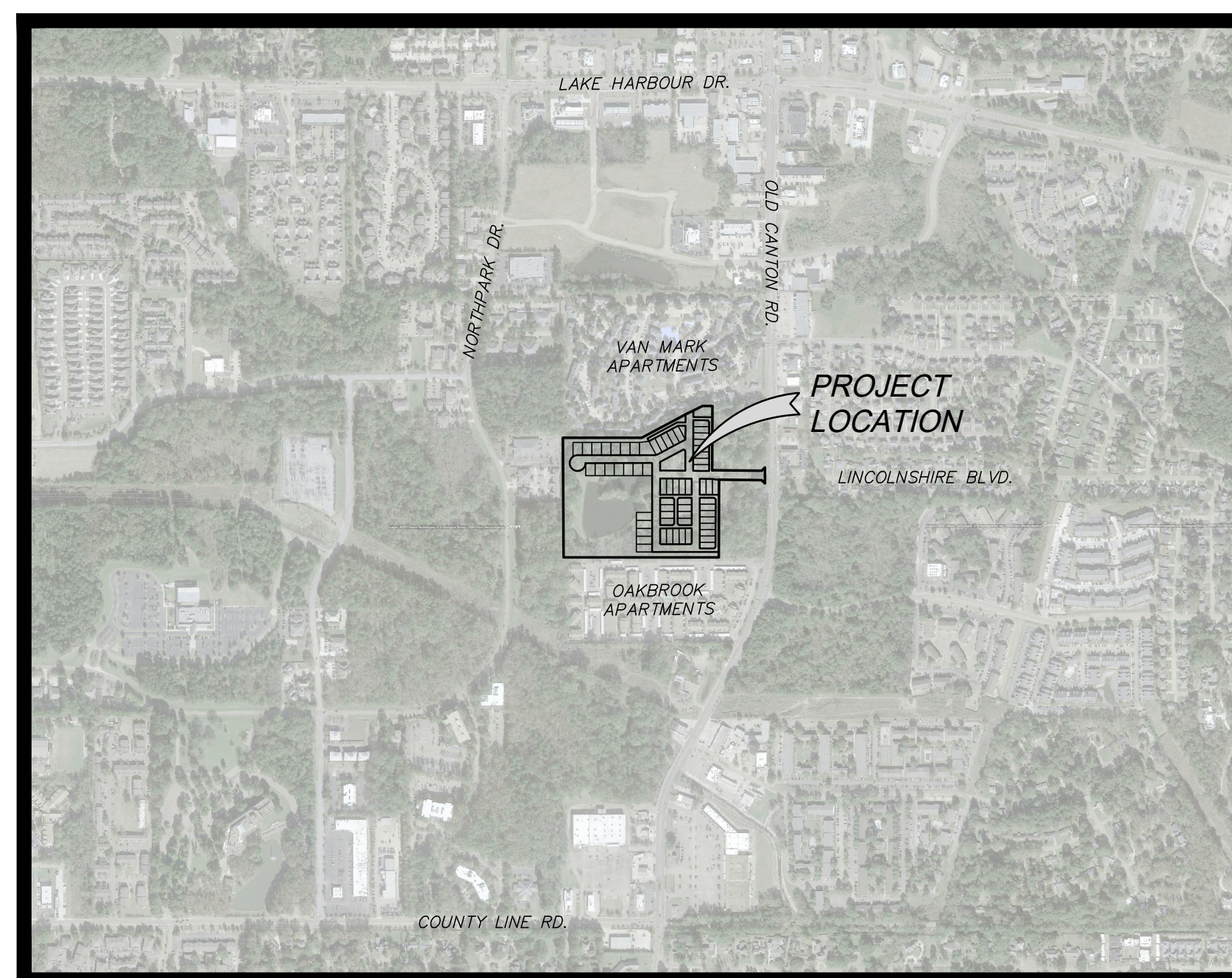
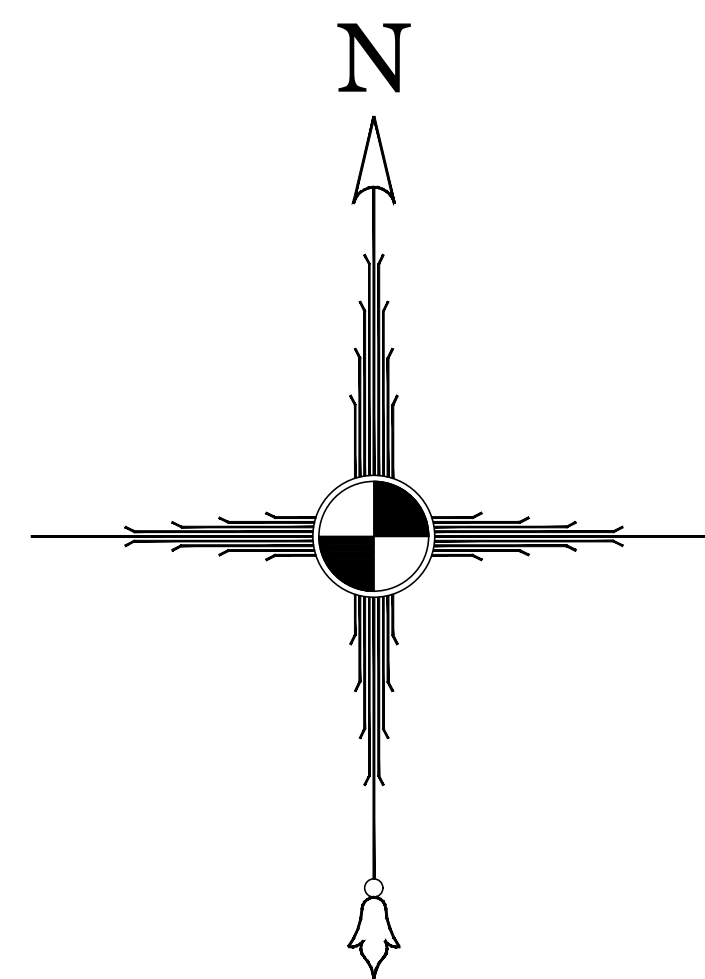


# CONSTRUCTION PLANS FOR: THE HERITAGE AT JACOBS FARM

LOCATION:  
CITY LIMITS OF RIDGELAND  
MADISON COUNTY, MISSISSIPPI  
OCTOBER, 2021

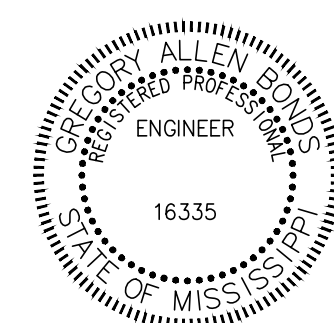


VICINITY MAP

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FOR CONSTRUCTION



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01/25/22  
Date

Equipment, materials and construction of all improvements required in these plans shall be in accordance with these construction drawings & project specifications.

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OWNER:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL STREET  
JACKSON, MS 39201

<p><b>BENCHMARK</b> ENGINEERING &amp; SURVEYING, LLC</p> <p>101 Highpointe Court, Suite B Brandon, Mississippi 39042 601-591-1077</p> <p>660 Katherine Drive, Suite 302 Flowood, Mississippi 39232 601-627-7780</p> <p>www.benchmarkms.net</p>		SHEET NUMBER
		1 of 23
		PROJECT NUMBER
		B-8337



GENERAL CONSTRUCTION NOTES:

- 1. IT IS NOT THE INTENT OF THESE CONSTRUCTION DRAWINGS, NOTES OR DETAILS TO COVER ALL OF THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS.
2. ALL ELEMENTS AND ITEMS NEEDED FOR THE COMPLETE INSTALLATION OF THE IMPROVEMENTS SHOWN IN THESE PLANS THAT ARE NOT SHOWN AS A SEPARATE PAY ITEM SHALL BE CONSIDERED AN ABSORBED COST.
3. THE CONTRACTOR SHALL PROVIDE REASONABLE ACCESS TO ALL PROPERTIES IN THE PROJECT AREA THROUGHOUT CONSTRUCTION.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING ALL LABOR, MATERIALS, EQUIPMENT AND INCIDENTAL ITEMS NEEDED TO PROVIDE ADEQUATE CONSTRUCTION SIGNING, BARRICADES, TRAFFIC CONTROL DEVICES AND OTHER RELATED ITEMS FOR THE PROJECT AREA, DURING THE CONSTRUCTION PERIOD. MAINTENANCE AND PROTECTION OF TRAFFIC MUST COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. THIS WORK IS TO BE CONSIDERED AN INCIDENTAL ITEM AND THE COST OF THIS ITEM IS TO BE INCLUDED IN OTHER PAY ITEMS.
5. ALL CONTRACTOR LABOR, EQUIPMENT AND MATERIALS REQUIRED TO PROPERLY, SAFELY AND ACCEPTABLY COMPLETE THE WORK IN A TIMELY MANNER. ALL WORK AND CONSTRUCTION PROCEDURES ARE SUBJECT TO THE APPROVAL OF THE ENGINEER/CITY OF RIDGELAND/OWNER. THE CONTRACTOR WILL BE EXPECTED TO PROGRESS DILIGENTLY AND CONSISTENTLY ITS ACTIVITIES AND OPERATION ON ALL WORKING DAYS WHEN WEATHER AND SOIL CONDITIONS ARE SUITABLE THEREOF. THE CONTRACTOR SHALL WARRANT HIS WORKMANSHIP AND MATERIALS APPLIED AND INSTALLED FROM THE DATE OF SUCH APPLICATION AND INSTALLATION UNTIL ONE YEAR AFTER ACCEPTANCE OF THE WORK BY THE OWNER.
6. ALL EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND ARE BASED ON INFORMATION PROVIDED BY OTHERS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE UTILITY OWNER'S TO VERIFY THE LOCATION AND ELEVATION OF ALL EXISTING UTILITIES (POWER, TELEPHONE, GAS, WATER, SEWER, ETC.) LOCATED IN THE PROJECT AREA PRIOR TO CONSTRUCTION AND COMPARE HIS FINDINGS AGAINST THE PROPOSED IMPROVEMENTS REQUIRED IN THESE PLANS. SHOULD ANY DISCREPANCIES BE FOUND BETWEEN THE EXISTING CONDITIONS AND PROPOSED IMPROVEMENTS THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY IN WRITING AND AWAIT FURTHER INSTRUCTION. THE CONTRACTOR SHALL BEAR FULL RESPONSIBILITY FOR THE PROTECTION OF ALL PRIVATE AND PUBLIC UTILITIES EVEN THOUGH THEY MAY NOT BE PLANS OR FIELD UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE UTILITY OWNER BY THE CONTRACTOR. THIS INCLUDES ALL SERVICE LATERALS OF ANY KIND.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING THE INTEGRITY AND OPERATIONS OF ALL ABOVE AND BELOW GROUND UTILITY FACILITIES AT ALL TIMES. THE CONTRACTOR SHALL CONDUCT ITS ACTIVITIES AND OPERATIONS TO INSURE THE FUNCTIONAL INTEGRITY OF EACH UTILITY FACILITY LOCATED WITHIN THE WORK SITE. THE CONTRACTOR ASSUMES FULL RESPONSIBILITY FOR DAMAGE TO ANY UTILITIES ENCOUNTERED WITHIN THE CONSTRUCTION LIMITS WHETHER SHOWN ON THE PLANS OR NOT AND SHALL COORDINATE REPAIR, REPLACEMENT OR RELOCATION WITH THE APPROPRIATE UTILITY COMPANY AT NO COST TO THE OWNER.
8. THE CONTRACTOR IS REQUIRED BY LAW TO NOTIFY MISSISSIPPI ONE CALL @ 811 AT LEAST 48 HOURS PRIOR TO CONSTRUCTION TO LOCATE ALL EXISTING UTILITIES ON SITE.
9. THE CONTRACTOR WILL BE RESPONSIBLE FOR DEMOLISHING OR REMOVING ANY EXISTING ABOVE OR BELOW GROUND TELEPHONE, CABLE, POWER, GAS LINES BUT SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ALL LOCAL UTILITY COMPANIES.
10. THE CONTRACTOR SHALL VERIFY ALL SHOWN DIMENSIONS AND ELEVATIONS (EXISTING AND PROPOSED) IN THE FIELD AND SHALL SATISFY HIMSELF AS TO THE ACCURACY BETWEEN WORK SET FORTH ON THESE PLANS AND THE WORK REQUIRED IN THE FIELD. ANY DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
11. THE CONTRACTOR SHALL MARK THE CONSTRUCTION LIMITS AND REVIEW WITH THE ENGINEER/OWNER PRIOR TO PERFORMING ANY CLEARING OPERATIONS.
12. THE CONTRACTOR SHALL CAREFULLY PROTECT AND PRESERVE ALL SURVEY MARKERS OR MONUMENTS ENCOUNTERED DURING CONSTRUCTION.
13. THE CONTRACTOR SHALL UTILIZE TEMPORARY FENCING AS REQUIRED BY LOCAL, STATE AND FEDERAL CODES TO PROTECT AND INSURE A SAFE WORK AREA.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL EXISTING STRUCTURES NECESSARY FOR COMPLETION OF WORK DESCRIBED IN THESE PLANS UNLESS OTHERWISE NOTED.
15. ALL EXCAVATIONS ARE TO BE BACKFILLED AT THE END OF EACH WORK DAY.
16. ALL FENCING, SIDEWALKS, CURBS, FLOWER BEDS, PLANTERS, ETC. THAT IS DAMAGED DURING CONSTRUCTION WILL BE REPLACED AND RESTORED TO ITS ORIGINAL CONDITION AT NO COST TO THE OWNER.
17. THE CONTRACTOR SHALL KEEP ALL ROADS CLEAN OF MUD AND DEBRIS AT ALL TIMES. CONTRACTOR MUST ENSURE THAT ROADS ARE CLEAN PRIOR TO LEAVING THE SITE FOR THE DAY. ALL CLEANING AND MAINTENANCE SHALL BE ABSORBED.
18. THE CONTRACTOR SHALL CAREFULLY REMOVE, STORE AND REINSTALL ALL CITY/COUNTY/STATE OWNED SIGNS WHOSE REMOVAL IS REQUIRED BY HIS CONSTRUCTION WORK IN THE PROJECT AREA. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ARRANGE FOR THE APPROPRIATE AGENCY TO INSPECT ALL SIGNS SCHEDULED TO BE REMOVED PRIOR TO THEIR REMOVAL. ONCE SAID SIGNS HAVE BEEN REMOVED, IT WILL BE ASSUMED THAT THEY WERE IN GOOD CONDITION AT THE TIME OF REMOVAL. ANY SIGNS DAMAGED OR LOST BY THE CONTRACTOR SHALL BE REPLACED AT NO COST TO THE APPROPRIATE AGENCY.
19. CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY AND ALL EXISTING STRUCTURES NECESSARY FOR COMPLETION OF WORK DESCRIBED IN THESE PLANS UNLESS OTHERWISE NOTED.
20. ALL GRADING WORK SHALL BE PERFORMED IN A MANNER TO PROMOTE POSITIVE DRAINAGE AND KEEP THE EXISTING DRAINAGE PATTERNS. NO GRADING WORK SHALL ADVERSELY AFFECT ADJACENT PROPERTY OWNERS.
21. PRIOR TO SUBMISSION OF ITS BID THE CONTRACTOR SHALL REVIEW THESE PLANS, THE ESTIMATED QUANTITIES FOR THE PRINCIPAL ITEMS OF WORK ON WHICH PAYMENT IS TO BE BASED, AND THE DOCUMENTS REFERENCED HEREIN. SUBMISSION OF ITS BID SHALL BE DEEMED A POSITIVE INDICATION THAT THE CONTRACTOR FOUND ALL OF SAME ADEQUATE FOR SUBMISSION OF A UNIT PRICE BID AND FOR INSTALLATION AND/OR CONSTRUCTION OF THE WORK.
22. STATIONING AND LENGTHS SHOWN (STREET AND UTILITY) IS HORIZONTAL STATIONING MEASURED ON A LEVEL PLANE. ACTUAL LENGTH SHALL BE DETERMINED BY MEASURING ALONG THE SLOPE OR CURVE.
23. THE CONTRACTOR SHALL ACQUIRE ALL REQUIRED PERMITS AND LICENSES; PAY ALL FEES, CHARGES AND TAXES (INCLUDING SALES AND USE TAXES); GIVE ALL REQUIRED NOTICES; MAINTAIN AN ORDERLY AND SAFE FLOW OF TRAFFIC; MAINTAIN PROPER STORMWATER DRAINAGE; LOCATE AND AVOID DISRUPTING ALL EXISTING UTILITIES; TRANSPORT ALL EQUIPMENT AND MATERIALS AS REQUIRED BY ANY AGENCY HAVING JURISDICTION OVER ANY ROAD USE THEREOF; TRANSPORT, HANDLE AND INSTALL ALL MATERIALS IN ACCORDANCE WITH THEIR RESPECTIVE MANUFACTURER'S RECOMMENDATIONS AND PROJECT SPECIFICATIONS; PROPERLY BACKFILL ALL TRENCHES AND EXCAVATIONS; MAINTAIN A CLEAN AND ORDERLY WORK SITE; PROMPTLY REMOVE ALL EQUIPMENT, DEBRIS AND EXCESS SOILS AND/OR MATERIALS ON COMPLETION OF THE WORK; AND RESTORE TO SUBSTANTIALLY THE SAME OR BETTER CONDITIONS ALL DISTURBED PAVEMENTS AND GROUND SURFACES.
24. NO ACTIVITY REQUIRED FOR THE ACCOMPLISHMENT OF THE WORK IS TO BE PERFORMED WHEN SOIL CONDITIONS ARE NOT CONDUCTIVE THEREOF. DRAINAGE SHALL BE MAINTAINED AT ALL TIMES. CONTRACTOR SHALL CONDUCT ITS OPERATIONS AND ACTIVITIES IN SUCH A MANNER AS TO MINIMIZE THE EROSION OF SOILS AND THE DEPOSITION OF SEDIMENTS INTO EXISTING DRAINAGE COURSES DOWNSTREAM OF PROJECT WORK SITE OR ONTO ADJACENT PROPERTIES.
25. ELEVATIONS ARE BASED ON M.S.L. DATUM (NAVD 88).
26. A MATERIALS TESTING LABORATORY PROVIDED BY THE OWNER SHALL PERFORM INSPECTIONS, PROOF ROLLS AND TESTING ON EARTHWORK, CONCRETE AND OTHER MATERIALS ASSOCIATED WITH THE PROJECT ON THE OWNER'S BEHALF TO CONFIRM THAT THE PROJECT SPECIFICATIONS ARE BEING MET. THE CONTRACTOR SHALL BE REQUIRED TO COORDINATE HIS PROGRESS WITH SAID TESTING AGENCY SO THAT THEY ARE ABLE TO SCHEDULE REQUIRED TESTING.
27. ANY MATERIALS OR WORKMANSHIP THAT DOES NOT MEET SPECIFICATION SHALL BE REJECTED, REMOVED, AND REPLACED AT NO ADDITIONAL COST TO THE OWNER.
28. ALL BUILDINGS, STRUCTURES, AND UTILITIES SERVING SUCH BUILDINGS AND STRUCTURES LOCATED WITHIN THE PROJECT LIMITS SHALL BE REMOVED IN THEIR ENTIRETY AND PROPERLY DISPOSED OF OFF-SITE. THIS SHALL BE CONSIDERED AN ABSORBED COST OF THE PROJECT.

EROSION CONTROL NOTES:

- 1. "TEMPORARY EROSION CONTROL" PAY ITEM INCLUDES ALL ITEMS SHOWN ON THE CONTRACT DRAWINGS AND ALL ITEMS REQUIRED TO STAY IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF RIDGELAND AND THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ).
2. EROSION CONTROL ITEMS DEPICTED ON THE CONTRACT DRAWINGS ARE THE MINIMUM REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL ITEMS AS NEEDED TO MEET ABOVE MENTIONED REQUIREMENTS.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND STORM WATER POLLUTION THROUGHOUT THE CONSTRUCTION PERIOD IN ACCORDANCE WITH THE REQUIREMENTS OF THE MDEQ. THIS INCLUDES BUT IS NOT LIMITED TO PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES, INSPECTIONS, INSPECTION REPORTS, AND UPDATES TO EROSION CONTROL PLAN SHOWING FAILURES, REPAIRS AND ADDITIONAL MEASURES TAKEN.
4. SEE CONSTRUCTION SEQUENCE SCHEDULE FOR REQUIRED IMPLEMENTATION SEQUENCE OF EROSION CONTROL MEASURES. AS NOTED IN OTHER LOCATIONS, ADDITIONAL MEASURES SHALL BE ADDED AS REQUIRED DURING CONSTRUCTION.
5. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN.
6. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM WIDTH NECESSARY TO ACCOMMODATE IMPROVEMENTS.
7. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION.
8. WATTLE EROSION CHECKS, SILT FENCING OR OTHER APPROVED BMPs SHALL BE USED ALONG THE TOE OF SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT LADEN RUNOFF MAY ENTER A STREAM, DITCH OR ADJACENT PROPERTY.
9. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT FROM ENTERING STREAMS, DITCHES OR ADJACENT PROPERTY. NO EXCAVATED MATERIAL SHALL BE DISCHARGED FROM THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION APPROVED BY THE ENGINEER.
10. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUALLY MAINTAINED. THE CONTRACTOR SHALL KEEP ALL AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION FREE OF MUD AND DEBRIS.
11. CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF THE CITY OF RIDGELAND AND THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.
12. CONTRACTOR TO UTILIZE APPROVED BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.
13. ALL DISTURBED AREAS NOT PAVED SHALL BE SEDED, MULCHED, FERTILIZED AND WATERED AS REQUIRED TO PREVENT EROSION.
14. ALL EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE DISTURBED UPSTREAM AREA HAS BEEN INSPECTED BY THE ENGINEER AND APPROVAL HAS BEEN GIVEN FOR REMOVAL.
15. CONTRACTOR WILL PROVIDE A STORAGE AREA FOR ALL POTENTIALLY TOXIC MATERIALS THAT ARE TO BE STORED ON SITE. THE LOCATION OF THIS AREA SHALL BE COORDINATED WITH THE ENGINEER/CITY OF RIDGELAND.
16. FUEL AND MATERIAL STORAGE AREAS SHALL BE LOCATED AS FAR AWAY FROM ANY DITCHES OR STREAMS AS POSSIBLE. A 60ML POLYETHYLENE LINER IS REQUIRED UNDER FUEL TANKS.
17. CONTRACTOR WILL BE RESPONSIBLE FOR ANY REPAIRS OR REPLACEMENT REQUIRED TO RESTORE AREAS TO THEIR ORIGINAL CONDITION WHERE EROSION CONTROL MEASURES FAILED.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STABILIZE THE PROJECT SITE WITH 90% VEGETATIVE COVER. THE CONTRACTOR SHALL RE-SEED, FERTILIZE, WATER, OR ANY OTHER MEASURES REQUIRES AS MANY TIMES AS NECESSARY TO ACHIEVE SUCH AND SHALL BE AN ABSORBED COST. SEE SECTION 02931 "ESTABLISHMENT OF VEGETATION" OF THE SPECIFICATIONS FOR OTHER MAINTENANCE REQUIREMENTS.

WATER & SEWER NOTES:

- 1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH THESE PLANS AND PROJECT SPECIFICATIONS.
2. THE CONTRACTOR SHALL PROVIDE ALL THE MATERIALS AND APPURTENANCES NECESSARY FOR THE COMPLETE INSTALLATION OF THE WATER AND SEWER UTILITIES.
3. THE CONTRACTOR SHALL MAKE ALL TIES TO EXISTING UTILITIES AND COORDINATE THEM WITH THE CITY OF RIDGELAND PUBLIC WORKS DEPARTMENT.
4. ALL MANHOLES, FIRE HYDRANTS, VALVE BOXES, ETC. LOCATED IN PROJECT AREA SHALL BE ADJUSTED TO PROPER LINE AND FINISHED GRADE BY THE CONTRACTOR AFTER PLACING OF PAVEMENT AND BEFORE FINAL ACCEPTANCE.
5. TRENCHING AND EMBEDMENT WORK SHALL CONFORM TO THE PROJECT SPECIFICATIONS AND SHALL FOLLOW THE TYPICAL CROSS-SECTION DETAIL FOR TRENCHING. UNLESS SPECIFIED OTHERWISE, BACKFILL MATERIAL SHALL BE COMPACTED TO 96% DENSITY OF STANDARD PROCTOR IN ACCORDANCE WITH ASTM D-698. ALL BACKFILL MATERIAL SHALL BE COMPACTED IN 6" LAYERS. DENSITY TESTING OF BACKFILL SHALL BE REQUIRED EVERY OTHER LIFT.
6. THE END OF WATER AND SEWER SERVICE LINES SHALL BE TIGHTLY CAPPED OR PLUGGED AND MARKED UNTIL SUCH TIME AS SERVICE CONNECTIONS ARE MADE OR LINES OR EXTENDED.
7. ALL WATER AND SANITARY SEWER LINES SHALL BE INSTALLED WITH A MINIMUM OF THREE FEET (3') OF COVER OVER THE TOP OF THE PIPE AT FINISHED GRADE OR AS SHOWN OR NOTED OTHERWISE. WHERE INSTALLED IN A ROADWAY SECTION THE MINIMUM COVER OVER THE TOP OF THE PIPE SHALL BE FOUR FEET (4'). BACKFILL SHALL BE PLACED IN 6" LIFTS AND COMPACTED TO 96% STANDARD PROCTOR DENSITY.
8. WATER LINE SHALL BE INSTALLED TO MAINTAIN A MINIMUM CLEARANCE OF 12" BELOW OR ABOVE EXISTING OR PROPOSED STORM DRAIN PIPING AND STRUCTURES THAT ARE PARALLEL TO OR INTERSECT THE WATER MAIN WHILE MAINTAINING THE MINIMUM COVER REQUIREMENTS.
9. TEN FEET (10') OF HORIZONTAL CLEARANCE IS REQUIRED BETWEEN ALL WATER AND SEWER LINES. AT LOCATIONS WHERE THE WATER AND SEWER LINES MUST CROSS EACH OTHER THERE SHALL BE A MINIMUM CLEARANCE OF 18" WITH THE WATER PASSING OVER THE SEWER. IF THE LINE SEPARATION CANNOT BE MET, THE SEWER LINE SHALL BE CONSTRUCTED TO THE SAME SPECIFICATIONS AS THE WATER LINE AND WATER TIGHT UNTIL SUCH A POINT WHERE MINIMUM SEPARATION CAN BE MET. WHERE GRAVITY FLOW SEWERS CROSS ABOVE WATER LINES, THE SEWER PIPE FOR A DISTANCE OF TEN (10') FEET, EACH SIDE OF THE CROSSING, IT SHALL BE DUCTILE IRON PRESSURE PIPE WITHOUT ANY JOINT CLOSER THAN THREE (3') FEET TO THE CROSSING, OR SHALL BE FULLY ENCASED IN CONCRETE.
10. ALL SANITARY SEWER SERVICES SHALL BE MARKED WITH A "Y" CUT INTO THE FACE OF THE CURB.
11. ALL WATER SERVICE LINES SHALL BE INSTALLED 10" TO THE UPHILL SIDE OF THE SEWER SERVICE LINE UNLESS OTHERWISE SHOWN. SERVICE LINE LOCATION TO BE MARKED WITH A "W" CUT INTO THE FACE OF THE CURB.
12. ALL WATER SERVICE LINES SHALL BE INSTALLED 10" TO THE UPHILL SIDE OF THE SEWER SERVICE LINE UNLESS OTHERWISE SHOWN.
13. FIRE HYDRANT MAKE AND MODEL SHALL BE APPROVED BY THE CITY OF RIDGELAND PUBLIC WORKS DEPARTMENT PRIOR TO INSTALLATION.
14. THE UTILITY CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING THE WATER AND SEWER SYSTEM IN ACCORDANCE WITH THE SPECIFICATIONS AND SHALL NOTIFY THE ENGINEER AND THE CITY OF RIDGELAND PUBLIC WORKS DEPARTMENT AT LEAST 48 HOURS IN ADVANCE OF PERFORMING ANY TESTS. A COPY OF ALL TEST RESULTS SHALL BE FAXED TO BENCHMARK ENGINEERING & SURVEYING, LLC @ 601-591-0711.
15. FITTINGS SHALL BE OF MECHANICAL JOINT TYPE AND SHALL BE RESTRAINED BY THE USE OF MEGA-LUGS AND CONCRETE THRUST BLOCKING. MEGA-LUGS AND THRUST BLOCKS ARE ABSORBED IN THE PER FOOT OF PIPE OR IN THE FITTINGS PAY ITEM.
16. THE LENGTHS OF THE SANITARY SEWER LINES ARE MEASURED FROM CENTER OF MANHOLE TO CENTER OF MANHOLE.
17. FITTINGS FOR WATER LINES WHICH ARE AN ITEM OF PAY ITEM SHALL BE AN ABSORBED COST.
18. ALL DISCONNECTIONS OR CONNECTIONS TO EXISTING WATER AND SEWER SYSTEM SHALL BE MADE DURING OFF-PEAK PERIODS AND COORDINATED WITH THE CITY OF RIDGELAND.

STORM DRAIN NOTES:

- 1. TECHNICAL SPECIFICATIONS FOR STORM DRAIN CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR STATE AID ROAD AND BRIDGE CONSTRUCTION.
2. JOINTS SHALL BE CONSTRUCTED AND JOINTED TOGETHER IN SUCH A MANNER THAT NO SPILL THROUGH OF BACKFILL WILL OCCUR.
3. ALL REINFORCED CONCRETE PIPE (R.C.P.) SHALL BE CLASS III UNLESS OTHERWISE NOTED AND WRAPPED IN FILTER CLOTH AT ALL JOINTS. LIFT HOLES TO BE GROUTED AND SEALED WATER TIGHT. CONCRETE PIPE JOINTS SHALL BE SEALED WITH "RAM-NECK" OR APPROVED EQUAL.
4. ALL CORRUGATED PLASTIC PIPE (C.P.P.) SHALL BE HP PIPE AS MANUFACTURED BY ADS OR APPROVED EQUAL.
5. R.C.P. REQUIRED UNDER ROADS. CONTRACTOR MAY USE C.P.P. BEHIND/UNDER CURB IN LIEU OF CONCRETE IF DESIRED. SHALL BE INSTALLED PER THE DETAILS.
6. CONTRACTOR SHALL PROVIDE DRAIN HOLES OR BLOCK OUTS AT ALL CURB INLETS (TO BE GROUTED IN WHEN FINAL SURFACE COURSE IS APPLIED).
7. THE LENGTH OF THE STORM DRAIN LINES ARE MEASURED FROM THE CENTER OF THE INLET/JUNCTION BOX TO THE CENTER OF THE INLET/JUNCTION BOX.
8. OPEN OUTLET ENDS OF CORRUGATED PLASTIC PIPE TO BE ANCHORED SECURELY INTO GROUND.
9. INLET/JUNCTION BOX TO BE DETERMINED BY CONTRACTOR OR MANUFACTURER BASED ON THE PIPE SIZES AND THE ENTRY/EXIT ANGLE OF THE CULVERTS.
10. PAD ELEVATIONS AND FINISHED GRADE CONTOURS ARE RECOMMENDATIONS. FINISHED PAD ELEVATIONS AND ACTUAL GRADES MAY VARY BUT THE OVERALL DRAINAGE PATTERN SHALL REMAIN AS SHOWN IN THESE DRAWINGS.
11. CURB INLET TOPS SHALL MATCH THE LONGITUDINAL SLOPE OF THE ROADWAY/CURB WHEN COMPLETE.
12. CURB INLET TOPS SHALL NOT BE SECURED/POURED UNTIL THE CURB HAS BEEN INSTALLED. JUNCTION BOX AND GRATE INLET TOPS SHALL NOT BE SECURED UNTIL FINAL GRADING HAS TAKEN PLACE.
13. JUNCTION BOX AND GRATE INLET TOPS TO BE FIELD ADJUSTED ONCE FINAL GRADING HAS TAKEN PLACE.
14. DENSITY TESTING ON STORM DRAIN TRENCHES SHALL BE TAKEN AS REQUIRED BY CITY OF RIDGELAND REGULATIONS AND PROJECT SPECIFICATIONS.
15. ALL ROADWAY CROSSINGS SHALL BE COMPACTED TO 98% STANDARD PROCTOR.
16. INVERT ELEVATIONS SHOWN ON THE PLANS FOR CULVERTS REPRESENT THE FLOWLINE, CONTRACTOR TO ACCOUNT FOR PIPE THICKNESS WHEN STAKING IN THE FIELD AND INSTALLING.

SITE GRADING AND PAVING NOTES:

- 1. TECHNICAL SPECIFICATION FOR MATERIALS AND CONSTRUCTION METHODS FOR THIS PROJECT SHALL CONFORM TO THE LATEST EDITION OF MISSISSIPPI STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
2. EARTH EXCAVATION SHALL INCLUDE CLEARING, STRIPPING, AND THE STOCKPIILING OF TOPSOIL, REMOVING UNSUITABLE MATERIALS, THE CONSTRUCTION OF EMBANKMENTS, NON-STRUCTURAL FILLS, FINAL SHAPING AND TRIMMING TO THE LINES, GRADES AND CROSS SECTIONS SHOWN ON THE PLANS. ALL UNSUITABLE OR EXCESS MATERIAL SHALL BE DISPOSED OF AS DIRECTED BY THE ENGINEER.
3. AS AN INITIAL STEP OF SITE PREPARATION, TREES AND VEGETATION WITHIN THE CONSTRUCTION LIMITS SHOULD BE REMOVED. TREE AND VEGETATION REMOVAL (CLEARING AND GRUBBING) WILL INCLUDE STUMPS AND ROOT SYSTEMS. HOLES CREATED BY TREE AND STUMP REMOVAL SHOULD BE BACKFILLED WITH COMPACTED SELECT FILL SOILS.
4. AFTER CLEARING AND GRUBBING A MINIMUM (12") DEPTH SHOULD BE PERFORMED TO A SUFFICIENT DEPTH WITHIN CONSTRUCTION AREAS TO REMOVE ORGANIC-LOADED SURFICIAL SOILS, VEGETATION, DEBRIS, BRUSH AND ROOTS (TOPSOIL). TOPSOIL EXCAVATED SHALL BE STOCKPILED ON THE SITE IN AREAS DESIGNATED BY THE ENGINEER UNTIL SUCH TIME THAT THIS TOPSOIL CAN BE USED FOR FINAL GRADING. THIS IS NOT A PAY ITEM, BUT SHALL BE AN ABSORBED COST.
5. ONCE CLEARING, GRUBBING, AND STRIPPING HAS BEEN COMPLETED THE CONTRACTOR SHALL EXCAVATE AREAS THAT ARE TO BE CUT TO REACH PLAN GRADE. CONTRACTOR SHALL THEN NOTIFY THE ENGINEER & TESTING AGENCY TO SET UP A FIELD INSPECTION OF THE SUB-GRADE PRIOR TO PLACEMENT OF FILL. CONTRACTOR SHALL HAVE AVAILABLE A PROOF ROLL OR FOR FURTHER EXCAVATION SHOULD THE ENGINEER OR TESTING AGENCY DEEM NECESSARY. ANY AREAS THAT PROVE TO BE UNSTABLE DURING THE PROOF ROLL OR APPEAR TO HAVE UN-SUITABLE MATERIAL SHALL BE MARKED AND A RECOMMENDATION FOR REMEDIATION SHALL BE PROVIDED BY TESTING AGENCY'S REPRESENTATIVE. SUCH AREAS SHALL BE PROOF ROLLED AGAIN ONCE REMEDIATION HAS BEEN COMPLETED.
6. FINE-GRAINED SOILS EXPOSED AFTER STRIPPING, EXCAVATION AND UNDERCUTTING ARE SUSCEPTIBLE TO PUMPING AND/OR BECOMING UNSTABLE AND RUTTING EXCESSIVELY UNDER WET CONDITIONS. THE CONSTRUCTION TECHNIQUES, TYPES OF EQUIPMENT UTILIZED AND SITE DRAINAGE PROVIDED DURING CONSTRUCTION WILL HAVE A GREAT EFFECT ON THE PERFORMANCE OF THE FINE-GRAINED SOILS THROUGHOUT THE PROJECT. THE ROUTING OF RUBBER-TIRED EQUIPMENT SHOULD BE CONTROLLED TO MINIMIZE TRAFFIC OVER THE SITE. ALL TRAFFIC SHOULD BE DISCOURAGED DURING PERIODS OF INCLEMENT WEATHER.
7. UNDERCUTTING AND BACKFILLING WILL BE REQUIRED TO REMOVE EXPANSIVE CLAYS (CH) IF PRESENT AND CREATE THE RECOMMENDED SOIL BUFFER DESCRIBED BELOW AT BUILDING STRUCTURE LOCATIONS AND AT ALL PAVEMENT AND SIDEWALK LOCATIONS.
8. SELECT FILL MATERIALS SHOULD CONSIST OF APPROVED MATERIAL WITH LESS THAN 2 PERCENT ORGANIC MATTER, FREE OF DEBRIS, WITH ROCKS NO GREATER THAN 6 INCHES AND A LIQUID LIMIT LESS THAN 40 AND A PLASTICITY INDEX BETWEEN 10 AND 20.
9. RECOMMENDED SOIL BUFFER FOR PAVEMENT IS TO BE 3" THICK AND EXTEND Laterally NOT LESS THAN 3' BEYOND PAVEMENT, SIDEWALK EDGES.
10. FILL SOILS SHOULD BE COMPACTED FROM LIFTS NOT EXCEEDING 8" IN LOOSE THICKNESS TO NOT LESS THAN THE DENSITIES DESCRIBED IN SPECIFICATION SECTION 02220 & 02230 AT MOISTURE CONTENTS WITHIN 2 PERCENTAGE POINTS OF THE OPTIMUM WATER CONTENT. STABILITY MUST BE EVIDENT DURING COMPACTION OF EACH LIFT BEFORE ANY SUBSEQUENT LIFTS OF FILL MATERIAL ARE ADDED.
11. OWNER'S TESTING AGENCY SHALL PERFORM MATERIAL TESTING ON SELECT FILL MATERIAL (WHETHER IMPORTED OR ON-SITE MATERIAL) TO CONFIRM THAT ANY MATERIALS THAT ARE TO BE PLACED BY CONTRACTOR MEETS PROJECT SPECIFICATIONS PRIOR TO ALLOWING SAID MATERIALS TO BE PLACED ON THE SITE. ADDITIONALLY, OWNER'S TESTING AGENCY SHALL CONDUCT FIELD MOISTURE DENSITY TESTS ON PLACEMENT OF EACH LIFT OF FILL AND ON FINAL COMPACTED SUB-GRADE AT INTERVALS REQUIRED BY THE PROJECT SPECIFICATIONS. TEST RESULTS SHALL BE EMAILED TO bogle@benchmarkms.net IMMEDIATELY AFTER TEST RESULTS HAVE BEEN PREPARED. ANY MATERIALS OR WORK THAT TESTING SHOWS DOES NOT MEET REQUIREMENTS SHALL BE REMOVED AND REPLACED AS DIRECTED BY TESTING AGENCY OR ENGINEER AT NO ADDITIONAL COST TO THE OWNER.
12. A PROOF ROLL OF THE SUB-GRADE FOR THE CURB AND PAVED AREAS SHALL BE REQUIRED PRIOR TO PLACEMENT OF CURB & GUTTER AND ASPHALT FOR A PROOF ROLL. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE EARTHWORK TESTING AGENCY AND REQUEST THAT THEY PROVIDE ALL TEST RESULTS TO ENGINEER AND TO CERTIFY TO THE ENGINEER THAT ALL REQUIREMENTS OF THE CONSTRUCTION PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT IN RELATION TO THE PREPARATION OF THE ROADWAY SUB-GRADE HAVE BEEN MET OR EXCEEDED. ONCE THIS INFORMATION IS RECEIVED, ENGINEER WILL SCHEDULE PROOF ROLL WITH CONTRACTOR. AFTER THE PROOF ROLL PASSES THE ENGINEER'S INSPECTION, THE CITY WILL BE CALLED TO PERFORM THEIR OWN.
13. THE GRADING AND CONSTRUCTION OF THE SITE IMPROVEMENTS SHALL NOT CAUSE THE PONDING OF STORM WATER. ALL AREAS ADJACENT TO THESE IMPROVEMENTS SHALL BE GRADED TO ALLOW POSITIVE DRAINAGE. POSITIVE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES.
14. THE CONTRACTOR SHALL TAKE SPECIAL CARE IN GRADING NEAR TREES, BUSHES AND SHRUBS WHICH ARE NOT TO BE REMOVED SO AS NOT TO CAUSE INJURY TO ROOTS OR TRUNKS.
15. THE CONTRACTOR SHALL USUALLY BE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO THESE EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
16. PROPOSED ELEVATIONS INDICATE FINISHED CONDITIONS. FOR ROUGH GRADING ELEVATIONS ALLOW FOR THICKNESS OF PROPOSED ITEMS (ROADS, WALKS, DRIVES, ETC.) OR TOPSOIL AS SHOWN.
17. STREET PAVING AND CURBS TO REMAIN SHALL BE PROTECTED FROM DAMAGE, AND IF DAMAGED, SHALL BE REPLACED PROMPTLY.

FOR CONSTRUCTION STANDARD ABBREVIATIONS, SYMBOLS & LINETYPES

ABBREVIATIONS

Table listing abbreviations: # ASSY., AVG, B.F.E., BLDG., BM, C, C.M., CONC., CONST., C.M.P., C.P.P., C.Y., DIA., D.I.P., DBL., DWG., EA, EASE, EP, EX, EXIST., EXT., E.W., F.E.S., G.M., FM, G.V., G, G.V., HORIZ., HWY., HYD., INV., J.V., LB, L.F., MAX., MH, MIN., M.J., N.T.S., ON CENTER, PC, PERM., PI, PROP., P.T., R, R.C.P., R.C.A.P., RD., REG'D., RET. WALL, R.O.W./ROW, RR, SD, SLDOR, SS, STA., STD., S.Y., TBC, TBM, TEMP., TOE, TP, TP, TR, TYP., VERT.

SYMBOLS

Table listing symbols: PROP. SS MH, PROP. SS CLEANOUT, PROP. CI (SINGLE), PROP. CI (SINGLE EXT.), PROP. CI (DBL. EXT.), PROP. GRATE INLET, PROP. JB, PROP. FIRE HYDRANT ASSY., PROP. GATE VALVE ASSY., PROP. SPOT ELEV., PROP. WATER METER ASSY., PROP. BACKFLOW ASSY., EX. POWER POLE, EX. SS MH, EX. SS LIFT STATION, EX. GATE VALVE ASSY., EX. WATER METER ASSY., SET IRON PIN, FOUND IRON PIN, BORE HOLE LOCATION, EX. CI, EX. CI (SINGLE EXT.), EX. CI (DBL. EXT.), EX. GRATE INLET, PROP. SS MH LABEL, PROP. SD STRUCTURE LABEL, EX. FIRE HYDRANT ASSY., PROP. F.E.S., EX. F.E.S., PROP. WATTLE, F.E.S. INLET PROTECTION, PROP. CI PROTECTION ON SLOPE, PROP. CI PROTECTION IN SAG, PROP. CI PROTECTION

LINETYPES

Table listing linetypes: EX. ADJACENT PROPERTY LINE, EX. AT&T LINE, EX. BLDG. LINE, EX. & ROAD, EX. COMCAST UNDERGROUND, EX. CONC., EX. CURB, EX. DITCH, EX. EASE, EX. EDGE OF GRAVEL, EX. EP, EX. FENCE BARBED WIRE, EX. FENCE CYCLONE, EX. FENCE WROUGHT IRON, EX. FENCE WOOD, EX. FIBER OPTIC, EX. GAS LINE, EX. GROUND CONTOUR LINE, EX. LANDSCAPING, EX. POWER (OVERHEAD), EX. POWER (UNDERGROUND), EX. RET. WALL, EX. R.O.W., EX. RR TRACKS, EX. SIDEWALK, EX. SLOPE, EX. STRIPING, EX. TOE SLOPE, EX. TOP BANK, EX. TREE LINE, EX. WATER'S EDGE, EX. WATER LINE, BASE FLOOD ELEVATION LINE & LEV., FLOODWAY LINE, FLOOR ZONE LINE, PROP. EP, PROP. SD HYDRANT ASSY., PROP. F.E.S., PROP. CASING, PROP. CENTERLINE, PROP. WATTLE, PROP. CURB, PROP. EASE, PROP. FENCE BARBED WIRE, PROP. FENCE CYCLONE, PROP. FENCE WROUGHT IRON, PROP. FENCE WOOD, PROP. FINISHED GRADE CONTOUR LINE, PROP. SHOULDER, PROP. GAS LINE, PROP. PHASE LINE, PROP. PROPERTY, PROP. RET. WALL, PROP. R.O.W., PROP. SD CULVERT, PROP. SETBACKS, PROP. SIDEWALK, PROP. SILT FENCE, PROP. SS FM, PROP. SS LINE, PROP. SWALE/DRAIN PATH, PROP. WATER EDGE, PROP. WATER LINE, PROP. WATER SERVICE LINE

HATCHES

Table listing hatches: FLOOD ZONE AE, FLOOD ZONE X, LIGHT DUTY ASPHALT, HEAVY DUTY ASPHALT, BLDG., CONC., RIP-RAP, CONST. ROAD, GRASS SEED REQ'D., SOLID SOD REQ'D., TURF REINFORCEMENT MAT REQ'D., DITCH LINER REQ'D.

UTILITY COMPANIES:

- WATER - CITY OF RIDGELAND
• SEWER - CITY OF RIDGELAND
• ELECTRICAL - ENTERGY
• GAS - CENTERPOINT ENERGY
• COMMUNICATIONS - AT&T

NOTES:

IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ITS OPERATORS, SUB CONTRACTORS, & EMPLOYEES ARE AWARE OF THE POTENTIAL UTILITY CONFLICTS WITHIN THE WORK AREA WHERE IMPROVEMENTS ARE TO BE TAKEN PLACE AND/OR UTILITY LINES ARE TO BE INSTALLED.

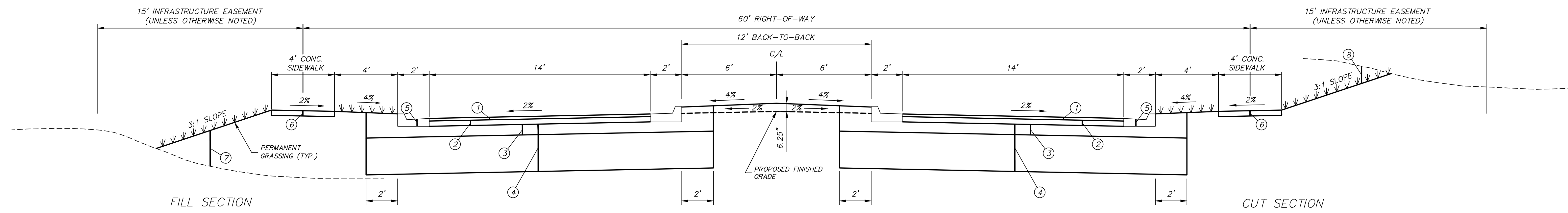
EXISTING UNDERGROUND UTILITIES REPRESENTED ON THESE PLANS WERE FIELD LOCATED PER THE MARKINGS OF A UTILITY LOCATING COMPANY AND THEIR REPRESENTATIVES. NO VERTICAL INFORMATION WAS PROVIDED. THESE LOCATIONS SHOULD BE CONSIDERED APPROXIMATE AND IT SHALL BE UNDERSTOOD THAT THE SURVEYOR IS NOT RESPONSIBLE FOR THE CORRECTNESS OF SUFFICIENCY REGARDING THE UNDERGROUND UTILITIES (SHOWN OR NOT SHOWN). THE ENGINEER/SURVEYOR/OWNER PROVIDES NO CERTAINTY OF THE ACCURACY OF THE INFORMATION SHOWN NOR GUARANTEE THAT ADDITIONAL UTILITY LINES WILL NOT BE PRESENT IN THE CONSTRUCTION LIMITS WHILE NOT SHOWN ON THE DRAWINGS.

BENCHMARK ENGINEERING & SURVEYING, LLC
101 Highlands Court, Suite B
Birmingham, AL 35202
Phone: 205-998-3922
Fax: 205-998-1077
www.benchmarkms.net

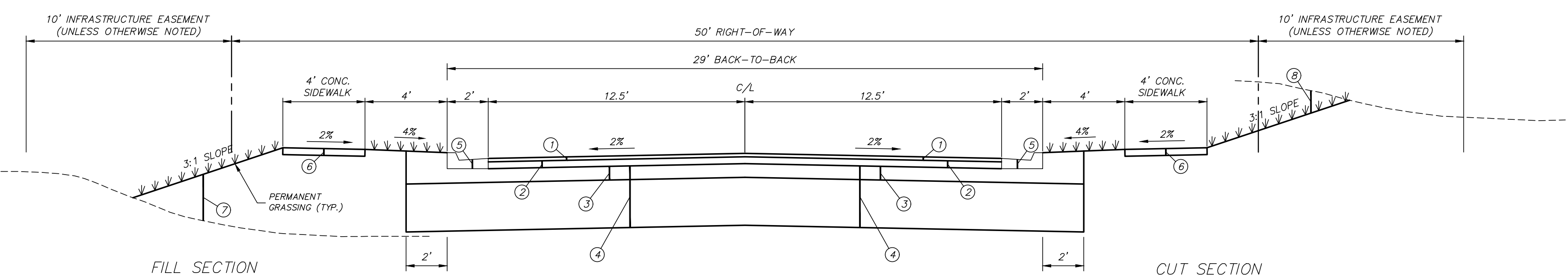
PROJECT LOCATION: OLD CANTON ROAD RIDGELAND, MS 39157
CLIENT: SELECT EDGE REALTY, LLC
277 EAST PEARL ST., JACKSON, MS 39201

PROJECT: THE HERITAGE AT JACOBS FARM
SHEET CONTENTS: GENERAL CONSTRUCTION NOTES
SHEET NUMBER: 2 of 23
PROJECT NUMBER: B-8337

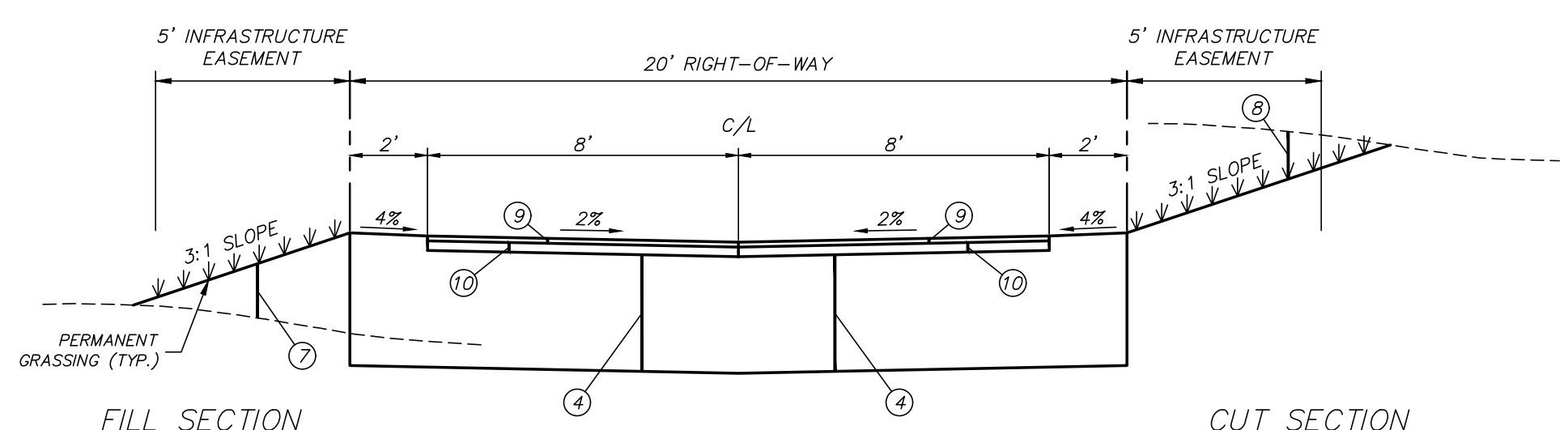




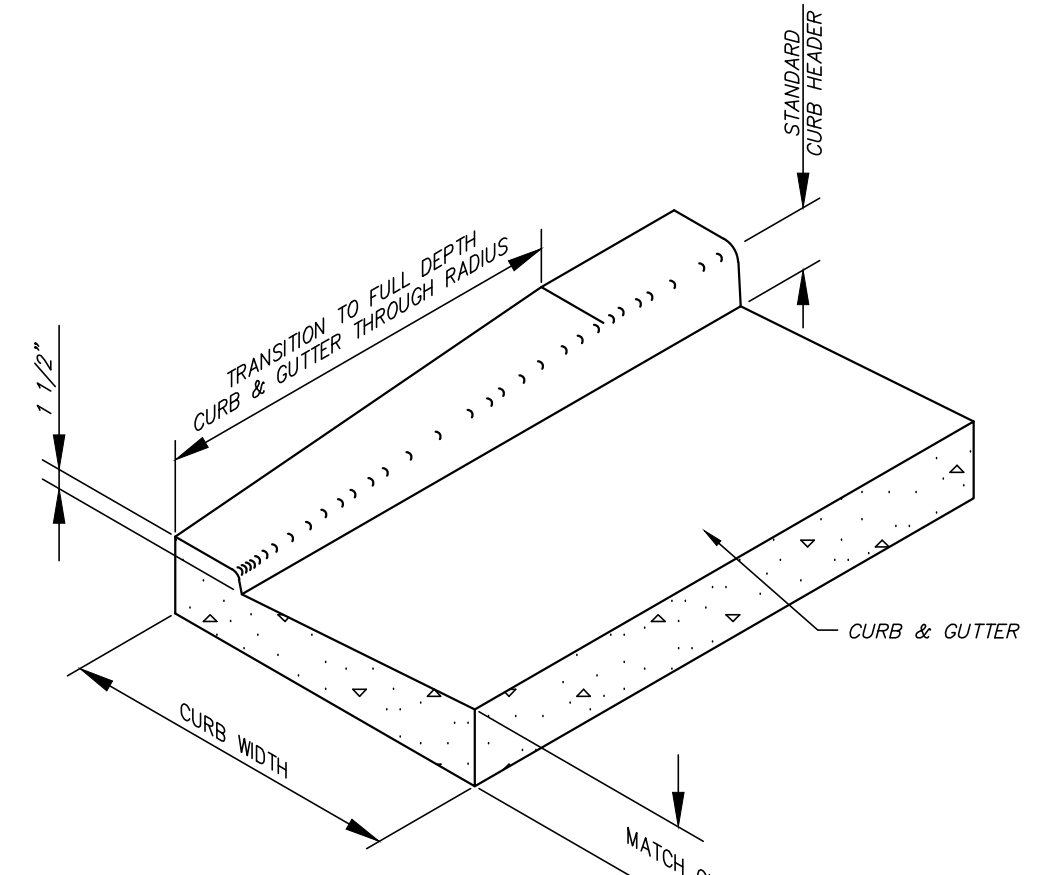
TYPICAL BOULEVARD SECTION  
HERITAGE BOULEVARD STA. 6+45.81 - STA. 7+99.38



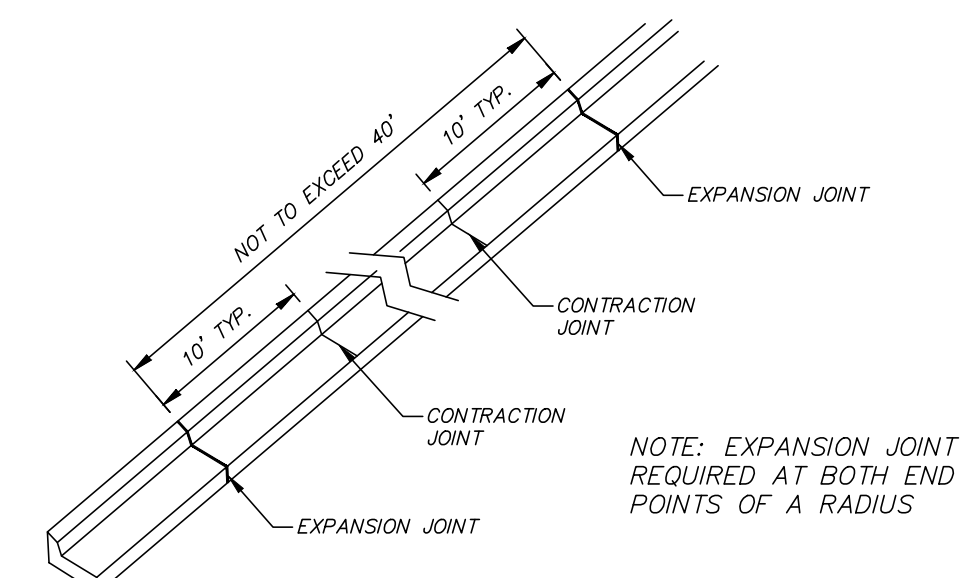
TYPICAL SECTION FOR PUBLIC STREETS



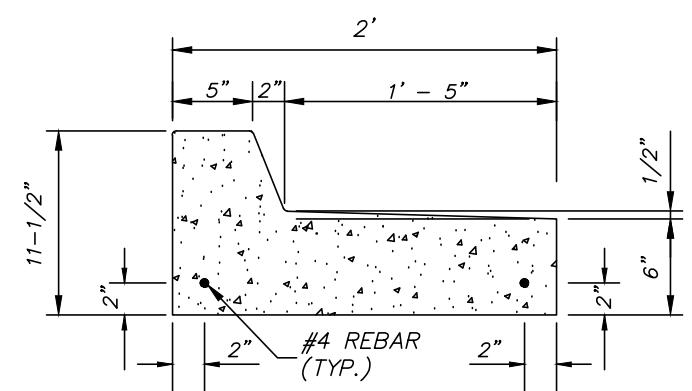
TYPICAL SECTION FOR PRIVATE ALLEYS



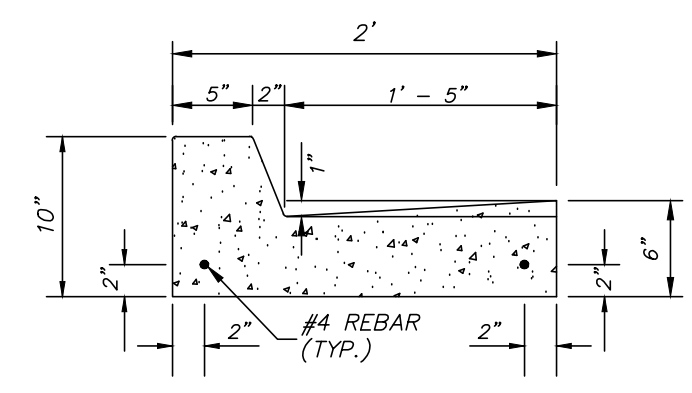
CURB END TRANSITION  
(TO BE PAID FOR AS CURB & GUTTER)



TYPICAL CURB AND GUTTER JOINT SPACING



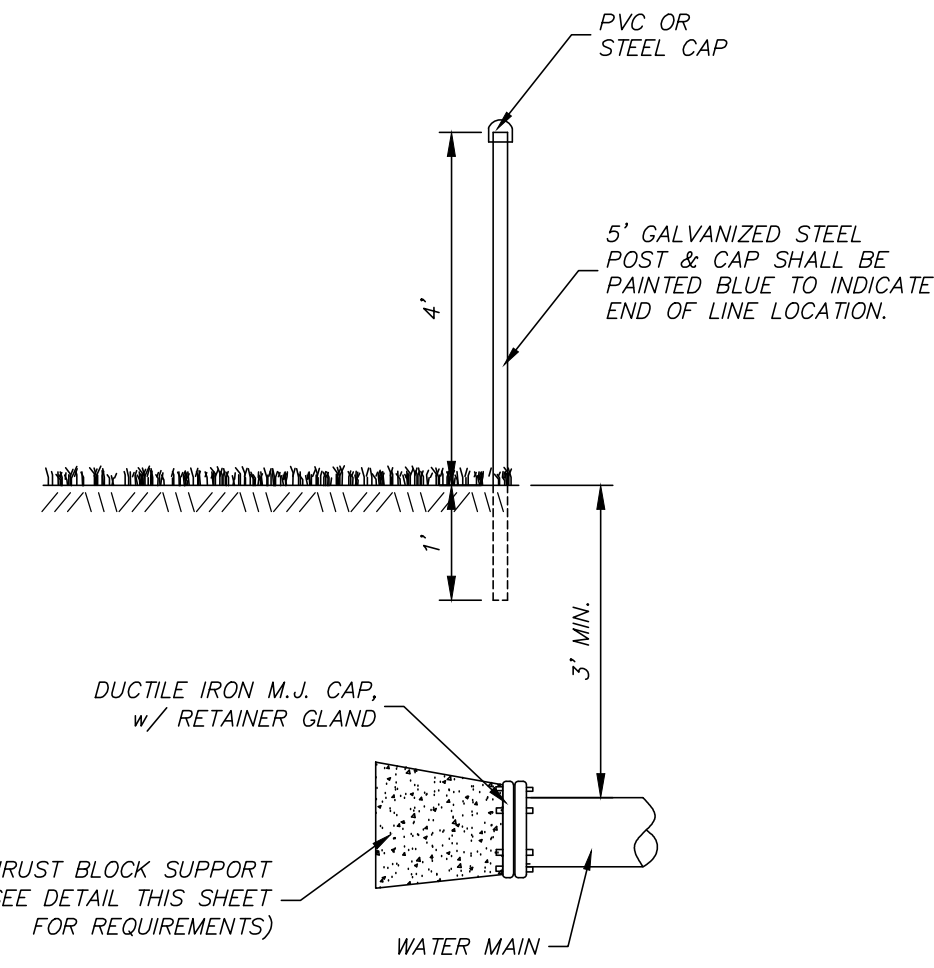
STANDARD CURB WITH REVERSED GUTTER



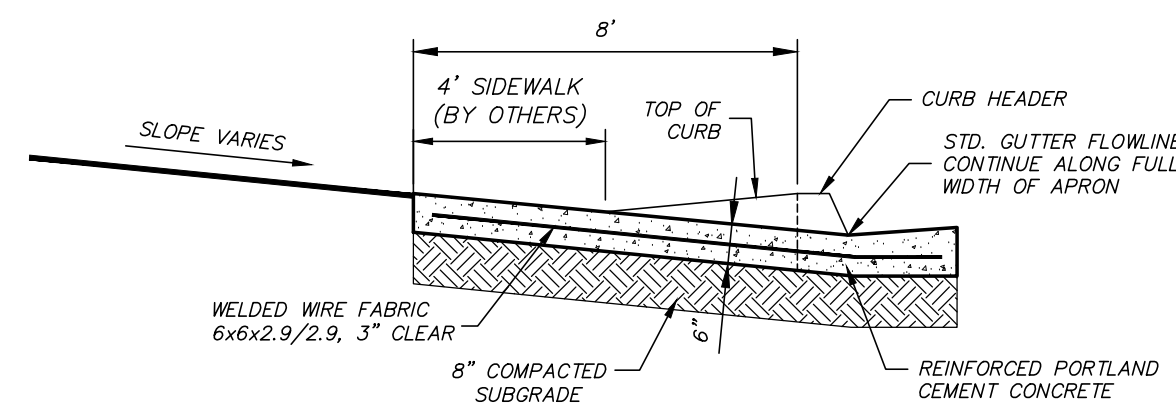
STANDARD CURB AND GUTTER

- CURB AND GUTTER NOTES:
- CURB AND GUTTER SHALL BE 3500 PSI MINIMUM CONCRETE.
  - CURB AND GUTTER SHALL BE PLACED ON COMPACTED SUB-GRADE MEETING ROADWAY SPECIFICATIONS. SUB-GRADE SHALL PASS A PROOF ROLL WITH THE ENGINEER OR HIS REPRESENTATIVE PRIOR TO POURING ANY PORTION OF THE CURB AND GUTTER.
  - PROVIDE EXPANSION JOINTS WITH 1/2" EXPANSION MATERIAL AT INTERVALS NOT TO EXCEED FORTY (40) FEET. TWO 3/4" DOWEL BARS HELD IN PLACE BY APPROVED CHAIRS OR SUPPORTS, 15" IN LENGTH REQ'D. AT EXPANSION JOINTS.
  - TOOLED CONTRACTION/CONTROL JOINTS (1/4" WIDE x 1" DEEP) ARE REQUIRED IN THE CURB AND GUTTER AT EVENLY SPACED INTERVALS NOT TO EXCEED TEN (10) FEET.

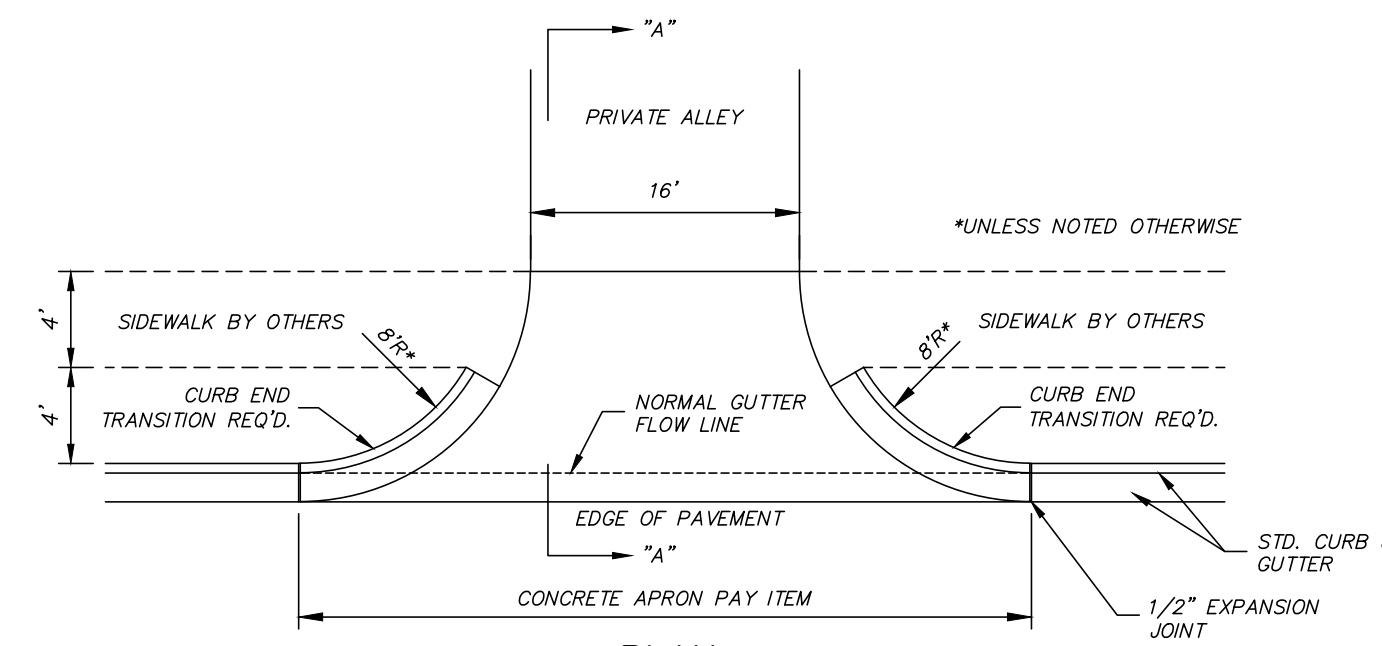
CURB AND GUTTER DETAILS



END OF LINE ASSEMBLY



SECTION "A" - "A"



PLAN  
CONCRETE DRIVEWAY APRON DETAIL  
N.T.S.

- NOTES:
- PORTLAND CEMENT CONCRETE SHALL BE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI @ 28 DAYS.
  - CONTRACTOR SHALL BE AWARE OF LOCATIONS OF APRONS AND EXPANSION JOINT MATERIAL WHEN SPACING EXPANSION JOINTS FOR CURB AND GUTTER.
  - APRON SLOPE SHALL MATCH SLOPE OF FINISHED GRADE PER THE GRADING PLAN.
  - FOR APRONS WHERE DRIVEWAY SLOPES AWAY FROM ROADWAY, CONTRACTOR SHALL PIVOT APRON AT GUTTER LINE AND PLACE APRON ON CONSTANT SLOPE AS REQUIRED TO TIE INTO EXISTING DRIVEWAY GRADE AT THE END OF THE APRON. MAX. 15% UNLESS APPROVED BY THE ENGINEER.
  - SUBGRADE TO BE COMPACTED PER ROADWAY SPECIFICATIONS (ABSORBED).

TYPICAL SECTION LEGEND

- 2" ASPHALT SURFACE COURSE (SC-1, TYPE 8) (1 @ 2")
- 4" ASPHALT BASE COURSE (BB-1, TYPE 6) (1 @ 4")
- 8" HYDRATED LIME, 6% BY WEIGHT (EXTENDING 2' BEYOND BACK OF CURB)
- 3' BUFFER (MIN.) FROM UNSUITABLE MATERIAL, SELECT FILL MATERIAL (EXTENDING 2' BEYOND BACK OF CURB)
- 2" VERTICAL CURB & GUTTER
- 4' CONCRETE SIDEWALK (BY OTHERS)
- UNCLASSIFIED EXCAVATION/SELECT BORROW MATERIAL
- STRIPPING & UNCLASSIFIED EXCAVATION
- 1.5" ASPHALT SURFACE COURSE (SC-1, TYPE 8) (1 @ 1.5")
- 3" ASPHALT BASE COURSE (BB-1, TYPE 6) (1 @ 3")

- TYPICAL SECTION NOTES:
- ROADWAY SUBGRADE PREPARATION SHALL EXTEND 4' BEYOND THE EDGE OF PAVEMENT. SUB-GRADE SHALL BE COMPACTED TO 98% STANDARD PROCTOR DRY DENSITY (ASTM D 698) AND TESTED FOR COMPACTION BY A CERTIFIED TESTING AGENCY PER SPECIFICATION SECTION 02220.3.16.
  - ALL FILL MATERIAL SHALL MEET REQUIREMENTS NOTED ON SHEET 2 OF THESE PLANS, IN THE GEOTECHNICAL REPORT, AND IN PROJECT SPECIFICATIONS. REQUIREMENTS OF GEOTECHNICAL REPORT SHALL GOVERN IF THERE IS A DISCREPANCY.
  - SEE SHEET 2 OF THESE PLANS, THE PROJECT SPECIFICATIONS, AND GEOTECHNICAL REPORT FOR ADDITIONAL REQUIREMENTS FOR ROADWAY PREPARATION CONSTRUCTION OF ROADWAY SECTIONS. REQUIREMENTS OF GEOTECHNICAL REPORT (IF AVAILABLE) SHALL GOVERN IF THERE IS A DISCREPANCY.
  - UNDERCUTTING AND BACKFILLING WILL BE REQUIRED TO REMOVE EXPANSIVE CLAYS (CH) IF PRESENT AND CREATE THE RECOMMENDED SOIL BUFFER REQUIRED. NO UNDERCUTTING SHALL BE PERFORMED WITHOUT APPROVAL FROM ENGINEER.
  - NO MATERIAL SHALL BE CONSIDERED UN-SUITABLE AND NO UNDERCUT SHALL BE REMOVED FROM SITE WITHOUT PRIOR APPROVAL FROM ENGINEER.
  - ANY EXCESS OR UNSUITABLE MATERIAL SHALL BE SPOILED ON-SITE AS DIRECTED BY ENGINEER.
  - SURFACE COURSE SHALL BE INSTALLED IN ONE 2" LIFT. SURFACE COURSE SHALL NOT BE INSTALLED UNTIL PERMISSION FOR INSTALLATION IS RECEIVED FROM CITY OF RIDGELAND AND IS NOT A PART OF THIS CONTRACT, HOWEVER, IT IS INCLUDED IN THE QUANTITIES.
  - SHAPE SUB-BASE AND SUB-GRADE TO REQUIRED CROWN ELEVATIONS AND CROSS-SLOPE GRADES.
  - CONTRACTOR TO COORDINATE WITH THE PROJECT ENGINEER AND THE CITY OF RIDGELAND ENGINEER FOR A PROOF ROLL OF THE SUB-GRADE FOR THE CURB AND ROADWAY, HOWEVER, PRIOR TO THE CONTRACTOR CONTACTING THE ENGINEER FOR A PROOF ROLL, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE WITH THE EARTHWORK TESTING AGENCY AND REQUEST THAT THEY PROVIDE ALL TEST RESULTS TO ENGINEER AND TO CERTIFY TO THE ENGINEER THAT ALL REQUIREMENTS OF THE CONSTRUCTION PLANS, SPECIFICATIONS AND GEOTECHNICAL REPORT IN RELATION TO THE PREPARATION OF THE ROADWAY SUB-GRADE HAVE BEEN MET OR EXCEEDED. ONCE THIS INFORMATION IS RECEIVED, ENGINEER WILL SCHEDULE PROOF ROLL WITH CONTRACTOR. AFTER THE PROOF ROLL PASSES THE ENGINEER'S INSPECTION, THE CITY WILL BE CALLED TO PERFORM THEIR OWN.
  - DENSITY TESTING SHALL BE PERFORMED AS REQUIRED BY THE PROJECT SPECIFICATIONS. TEST RESULTS SHALL BE PROVIDED TO ENGINEER IMMEDIATELY ONCE RECEIVED. SHOULD THERE BE AREAS THAT RESULT IN FAILED TEST RESULTS THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL MATERIAL AND INSTALLATION COSTS FOR REPAIR WORK AS NECESSARY TO ACHIEVE SATISFACTORY TEST RESULT AS WELL AS ADDITIONAL TESTING.
  - WHEN GROUND SURFACE WITHIN THE RIGHT OF WAY HAS BEEN BROUGHT TO GRADES SHOWN, THE CONTRACTOR IS TO GRASS WITH PERMANENT SEED.
  - ALL PUBLIC UTILITIES OTHER THAN WATER AND SANITARY SEWER MAINS SHALL BE INSTALLED AT A NORMAL DEPTH DETERMINED BY THE INDUSTRY OR A MINIMUM DEPTH OF 60", WHICH EVER IS GREATER.
  - SIDEWALK ALONG LOTS WILL BE CONSTRUCTED BY THE BUILDERS/LOT OWNERS. SIDEWALKS ALONG COMMON AREAS WILL BE PAID FOR BY THE DEVELOPER BUT IS NOT A PART OF THIS CONTRACT. CODE ENFORCEMENT BY OTHERS.

**BENCHMARK**  
ENGINEERING & SURVEYING, LLC  
101 Highpointe Court, Suite B  
Flowood, MS 39232  
601-887-7780  
www.benchmarkms.com

DATE: 07/25/22	DRAWN: JHB	REVISIONS:
CHECKED: GAB	SCALE:	
REF C/L:	EC SURFACE:	
	FG SURFACE:	

PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157

CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST. JACKSON, MS 39201

PROJECT:  
THE HERITAGE AT JACOBS FARM

SHEET CONTENTS:  
TYPICAL SECTION & MISCELLANEOUS DETAILS



CENTERLINE INTERSECTIONS

- STA. 3+09.19, HERITAGE BLVD = STA. 33+72.88, WESTBROOK WAY
- STA. 3+50.01, HERITAGE BLVD = STA. 22+47.69, GREEN OAKS CIR.
- STA. 4+44.20, HERITAGE BLVD = STA. 54+82.38, ALLEY A
- STA. 1+00, HERITAGE BLVD = STA. 10+96.96, GREEN OAKS CIR.
- STA. 12+35.51, GREEN OAKS CIR = STA. 90+00.00, ALLEY E
- STA. 14+27.51, GREEN OAKS CIR = STA. 70+00.00, ALLEY C
- STA. 17+91.28, GREEN OAKS CIR = STA. 66+15.47, ALLEY B
- STA. 19+19.81, GREEN OAKS CIR = STA. 72+50.00, ALLEY D
- STA. 21+11.61, GREEN OAKS CIR = STA. 92+50.00, ALLEY E = STA. 60+00.00, ALLEY B
- STA. 44+95.01, JACOB'S COVE = STA. 10+00.00, GREEN OAKS CIR.
- STA. 47+31.64, JACOB'S COVE = STA. 31+66.08, WESTBROOK WAY
- STA. 30+53.09, WESTBROOK WAY = STA. 102+81.52, ALLEY F
- STA. 30+17.87, WESTBROOK WAY = STA. 50+00, ALLEY A
- STA. 91+25.00, ALLEY E = STA. 80+00, ALLEY D
- STA. 71+25.00, ALLEY C = STA. 81+92.00, ALLEY D

CURVE DATA

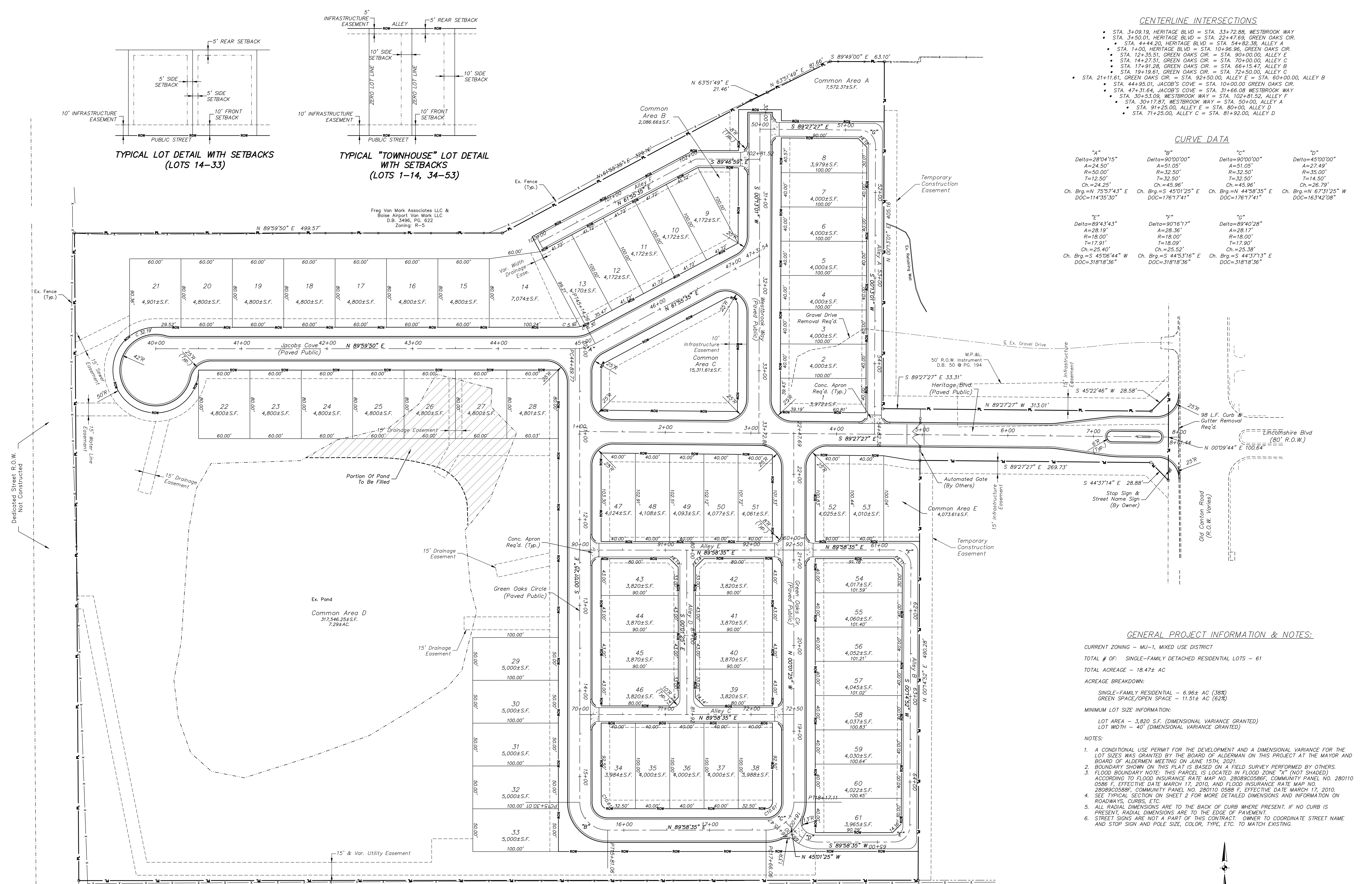
"A"	"B"	"C"	"D"
Delta=28°04'15"	Delta=90°00'00"	Delta=90°00'00"	Delta=45°00'00"
A=24.50'	A=51.05'	A=51.05'	A=27.49'
R=50.00'	R=32.50'	R=32.50'	R=35.00'
T=12.50'	T=32.50'	T=32.50'	T=14.50'
Ch. Brg.=N 73°27'43" E	Ch. Brg.=S 45°01'25" E	Ch. Brg.=N 44°58'35" E	Ch. Brg.=N 67°31'25" W
DOC=114°35'30"	DOC=176°17'41"	DOC=176°17'41"	DOC=163°42'08"

"E"	"F"	"G"
Delta=89°43'43"	Delta=90°16'17"	Delta=89°40'28"
A=28.19'	A=28.36'	A=28.17'
R=18.00'	R=18.00'	R=18.00'
T=17.91'	T=18.09'	T=17.90'
Ch. Brg.=S 45°06'44" W	Ch. Brg.=S 44°53'16" E	Ch. Brg.=S 44°53'13" E
DOC=318°18'36"	DOC=318°18'36"	DOC=318°18'36"

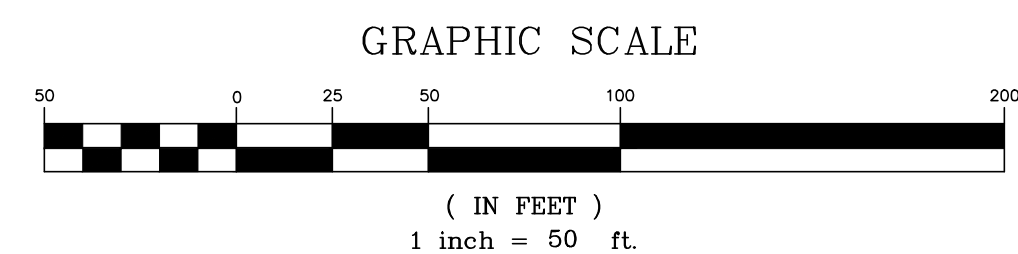
TYPICAL LOT DETAIL WITH SETBACKS (LOTS 14-33)

TYPICAL "TOWNHOUSE" LOT DETAIL WITH SETBACKS (LOTS 1-14, 34-53)



GENERAL PROJECT INFORMATION & NOTES:

- CURRENT ZONING - MU-1, MIXED USE DISTRICT  
 TOTAL # OF: SINGLE-FAMILY DETACHED RESIDENTIAL LOTS - 61  
 TOTAL ACREAGE - 18.47± AC  
 ACREAGE BREAKDOWN:  
 SINGLE-FAMILY RESIDENTIAL - 6.96± AC (38%)  
 GREEN SPACE/OPEN SPACE - 11.51± AC (62%)  
 MINIMUM LOT SIZE INFORMATION:  
 LOT AREA - 3,820 S.F. (DIMENSIONAL VARIANCE GRANTED)  
 LOT WIDTH - 40' (DIMENSIONAL VARIANCE GRANTED)  
 NOTES:  
 1. A CONDITIONAL USE PERMIT FOR THE DEVELOPMENT AND A DIMENSIONAL VARIANCE FOR THE LOT SIZES WAS GRANTED BY THE BOARD OF ALDERMAN ON THIS PROJECT AT THE MAYOR AND BOARD OF ALDERMAN MEETING ON JUNE 15TH, 2021.  
 2. BOUNDARY SHOWN ON THIS PLAN IS BASED ON A FIELD SURVEY PERFORMED BY OTHERS.  
 3. FLOOD BOUNDARY NOTE: THIS PARCEL IS LOCATED IN FLOOD ZONE "X" (NOT SHADED) ACCORDING TO FLOOD INSURANCE RATE MAP NO. 28089C0588F, COMMUNITY PANEL NO. 280110 0586 F, EFFECTIVE DATE MARCH 17, 2010, AND FLOOD INSURANCE RATE MAP NO. 28089C0588F, COMMUNITY PANEL NO. 280110 0588 F, EFFECTIVE DATE MARCH 17, 2010.  
 4. SEE TYPICAL SECTION ON SHEET 2 FOR MORE DETAILED DIMENSIONS AND INFORMATION ON ROADWAYS, CURBS, ETC.  
 5. ALL RADIAL DIMENSIONS ARE TO THE BACK OF CURB WHERE PRESENT. IF NO CURB IS PRESENT, RADIAL DIMENSIONS ARE TO THE EDGE OF PAVEMENT.  
 6. STREET SIGNS ARE NOT A PART OF THIS CONTRACT. OWNER TO COORDINATE STREET NAME AND STOP SIGN AND POLE SIZE, COLOR, TYPE, ETC. TO MATCH EXISTING.



Oakbrook LLC  
D.B. 2890, Pg. 837  
Zoning: MU-1



REQUIRED SERVICE LINE INVERTS FROM MANHOLES		
MH	SERVICE TO LOT	INVERT
5	32	307.00
7	13	308.00
7	14	308.00
8	10	312.25
10	41	312.50
10	42	312.50
10	54	312.75
10	55	312.50
12	53	318.75
13	7	318.25
13	8	318.25
15	21	306.00
16	15	309.50
16	26	307.00
16	27	307.00

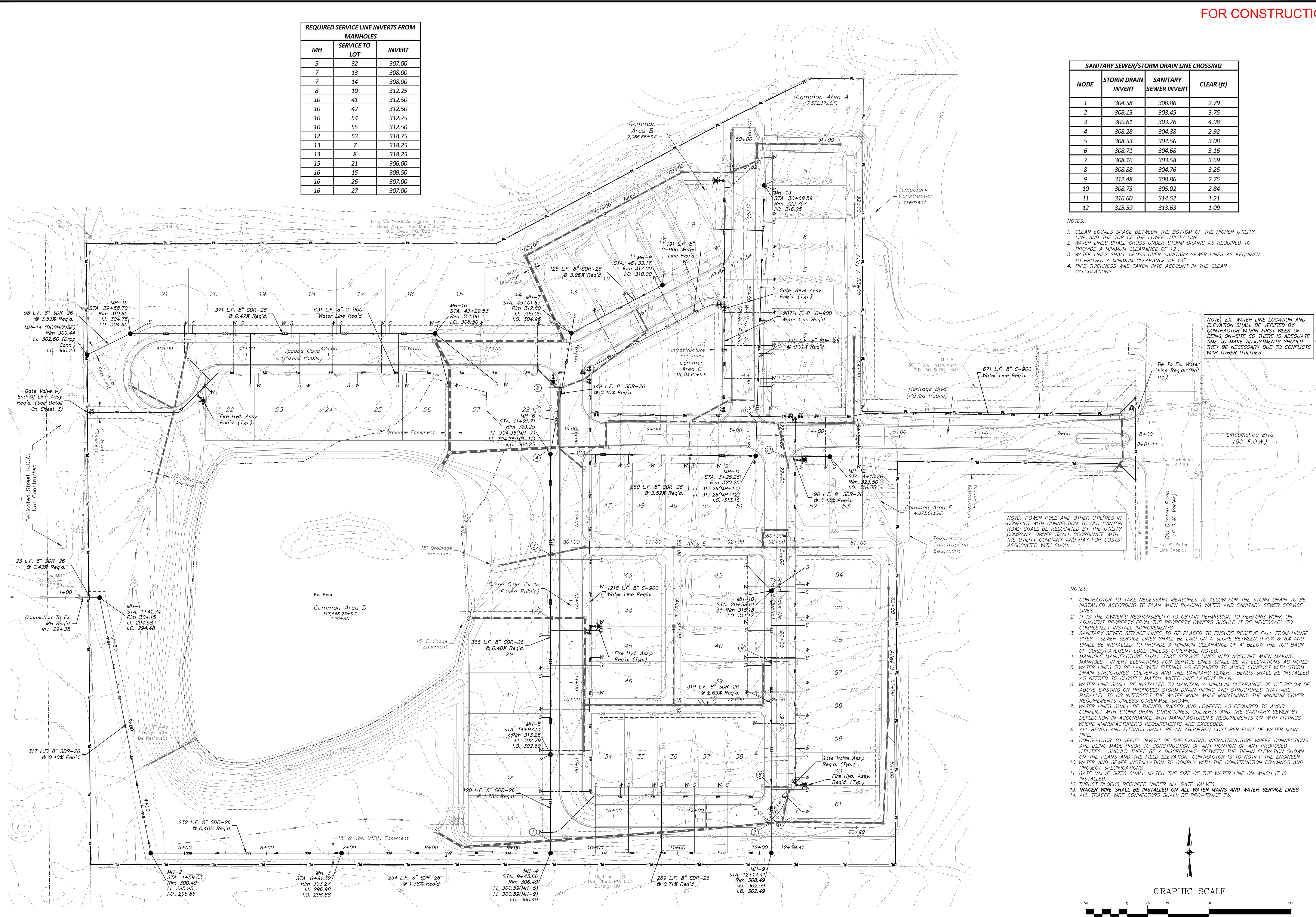
SANITARY SEWER/STORM DRAIN LINE CROSSING			
NODE	STORM DRAIN INVERT	SANITARY SEWER INVERT	CLEAR (ft)
1	304.58	300.86	2.79
2	308.13	303.45	3.75
3	309.61	303.76	4.98
4	308.28	304.38	2.92
5	308.53	304.56	3.08
6	308.71	304.68	3.16
7	308.16	303.58	3.69
8	308.88	304.76	3.25
9	312.48	308.86	2.75
10	308.73	305.02	2.84
11	316.60	314.52	1.21
12	315.59	313.63	1.09

NOTES:

- CLEAR EQUALS SPACE BETWEEN THE BOTTOM OF THE HIGHER UTILITY LINE AND THE TOP OF THE LOWER UTILITY LINE.
- WATER LINES SHALL CROSS UNDER STORM DRAINS AS REQUIRED TO PROVIDE A MINIMUM CLEARANCE OF 12".
- WATER LINES SHALL CROSS OVER SANITARY SEWER LINES AS REQUIRED TO PROVIDE A MINIMUM CLEARANCE OF 18".
- PIPE THICKNESS WAS TAKEN INTO ACCOUNT IN THE CLEAR CALCULATIONS.

NOTES:

- CONTRACTOR TO TAKE NECESSARY MEASURES TO ALLOW FOR THE STORM DRAIN TO BE INSTALLED ACCORDING TO PLAN WHEN PLACING WATER AND SANITARY SEWER SERVICE LINES.
- IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN PERMISSION TO PERFORM WORK ON ADJACENT PROPERTY FROM THE PROPERTY OWNERS SHOULD IT BE NECESSARY TO COMPLETELY INSTALL IMPROVEMENTS.
- SANITARY SEWER SERVICE LINES TO BE PLACED TO ENSURE POSITIVE FALL FROM HOUSE SITES. SEWER SERVICE LINES SHALL BE LAID ON A SLOPE BETWEEN 0.75% & 6% AND SHALL BE INSTALLED TO PROVIDE A MINIMUM CLEARANCE OF 4' BELOW THE TOP BACK OF CURB/PAVEMENT EDGE UNLESS OTHERWISE NOTED.
- MANHOLE MANUFACTURE SHALL TAKE SERVICE LINES INTO ACCOUNT WHEN MAKING MANHOLE. INVERT ELEVATIONS FOR SERVICE LINES SHALL BE AT ELEVATIONS AS NOTED.
- WATER LINES TO BE LAID WITH FITTINGS AS REQUIRED TO AVOID CONFLICT WITH STORM DRAIN STRUCTURES, CULVERTS AND THE SANITARY SEWER. BENDS SHALL BE INSTALLED AS NEEDED TO CLOSELY MATCH WATER LINE LAYOUT PLAN.
- WATER LINE SHALL BE INSTALLED TO MAINTAIN A MINIMUM CLEARANCE OF 12" BELOW OR ABOVE EXISTING OR PROPOSED STORM DRAIN PIPING AND STRUCTURES THAT ARE PARALLEL TO OR INTERSECT THE WATER MAIN WHILE MAINTAINING THE MINIMUM COVER REQUIREMENTS UNLESS OTHERWISE SHOWN.
- WATER LINES SHALL BE TURNED, RAISED AND LOWERED AS REQUIRED TO AVOID CONFLICT WITH STORM DRAIN STRUCTURES, CULVERTS AND THE SANITARY SEWER BY DEFLECTION IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS OR WITH FITTINGS WHERE MANUFACTURER'S REQUIREMENTS ARE EXCEEDED.
- ALL BENDS AND FITTINGS SHALL BE AN ABSORBED COST PER FOOT OF WATER MAIN PIPE.
- CONTRACTOR TO VERIFY INVERT OF THE EXISTING INFRASTRUCTURE WHERE CONNECTIONS ARE BEING MADE PRIOR TO CONSTRUCTION OF ANY PORTION OF ANY PROPOSED UTILITIES. SHOULD THERE BE A DISCREPANCY BETWEEN THE TIE-IN ELEVATION SHOWN ON THE PLANS AND THE FIELD ELEVATION, CONTRACTOR IS TO NOTIFY THE ENGINEER.
- WATER AND SEWER INSTALLATION TO COMPLY WITH THE CONSTRUCTION DRAWINGS AND PROJECT SPECIFICATIONS.
- GATE VALVE SIZES SHALL MATCH THE SIZE OF THE WATER LINE ON WHICH IT IS INSTALLED.
- THRUST BLOCKS REQUIRED UNDER ALL GATE VALVES.
- TRACER WIRE SHALL BE INSTALLED ON ALL WATER MAINS AND WATER SERVICE LINES.
- ALL TRACER WIRE CONNECTORS SHALL BE PRO-TRACE TW.



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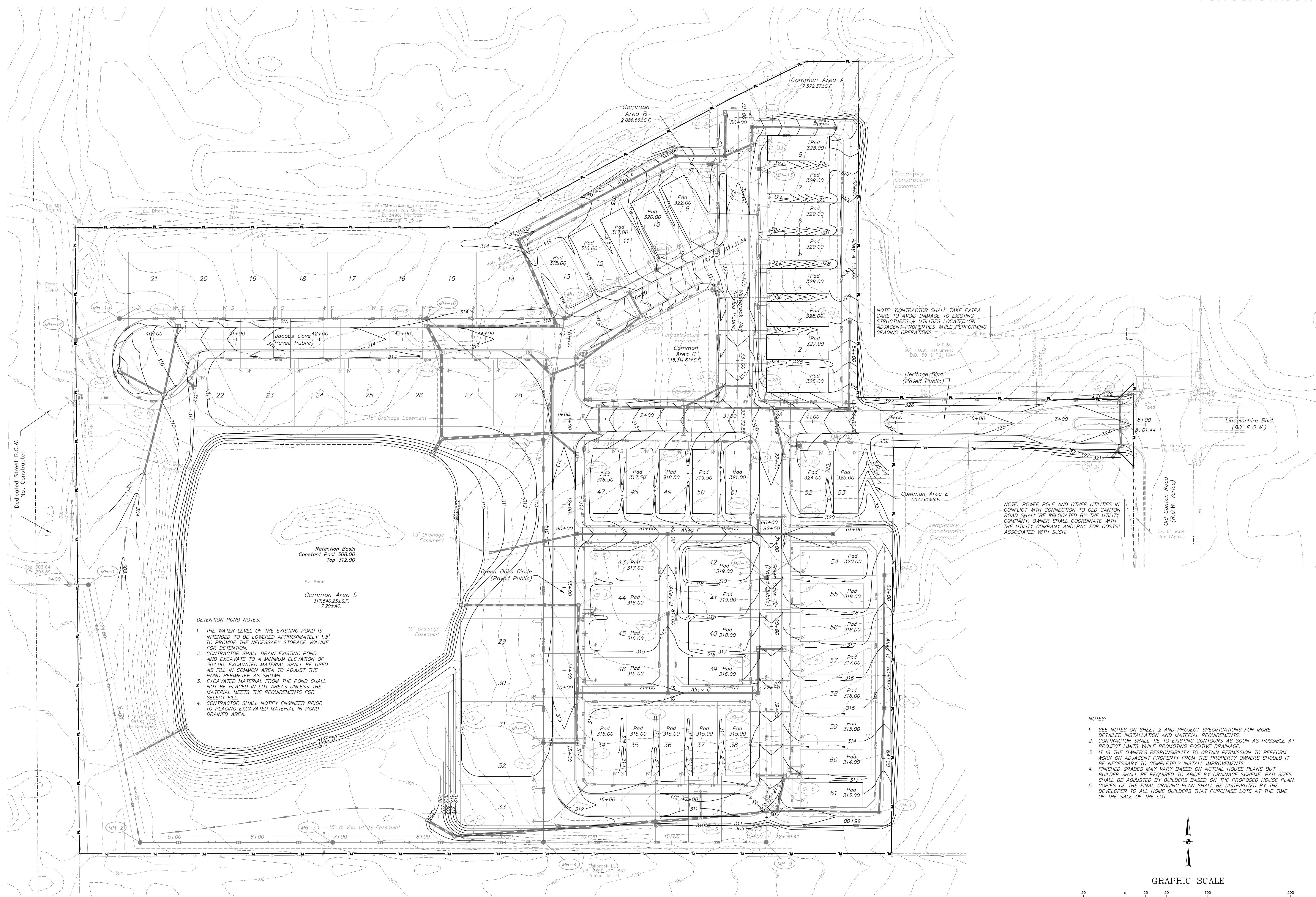
PROJECT LOCATION: OLD CANTON ROAD, RIDGELAND, MS 39157  
 CLIENT: SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST., JACKSON, MS 39201

PROJECT: THE HERITAGE AT JACOBS FARM  
 SHEET CONTENTS: WATER & SANITARY SEWER LAYOUT

DATE: 07/25/22  
 CHECKED: GAB  
 REF C/L:  
 EC SURFACE:  
 FG SURFACE:

REVISIONS:  
 DRAWN: JHB  
 SCALE: 1"=50'  
 SHEET NUMBER: 5 of 23  
 PROJECT NUMBER: B-8337





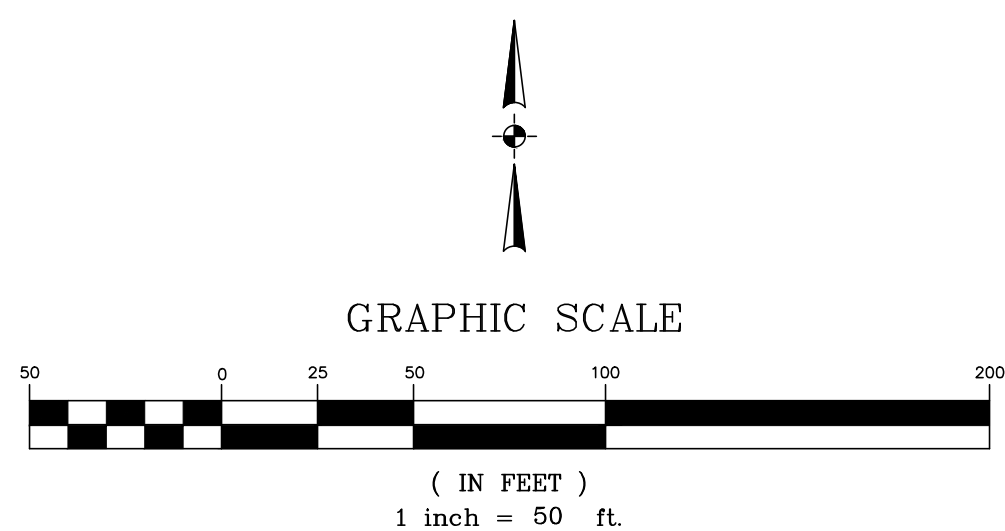
**RETENTION POND NOTES:**

1. THE WATER LEVEL OF THE EXISTING POND IS INTENDED TO BE LOWERED APPROXIMATELY 1.5' TO PROVIDE THE NECESSARY STORAGE VOLUME FOR DETENTION.
2. CONTRACTOR SHALL DRAIN EXISTING POND AND EXCAVATE TO A MINIMUM ELEVATION OF 304.00. EXCAVATED MATERIAL SHALL BE USED AS FILL IN COMMON AREA TO ADJUST THE POND PERIMETER AS SHOWN.
3. EXCAVATED MATERIAL FROM THE POND SHALL NOT BE PLACED IN LOT AREAS UNLESS THE MATERIAL MEETS THE REQUIREMENTS FOR SELECT FILL.
4. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PLACING EXCAVATED MATERIAL IN POND DRAINED AREA.

NOTE: CONTRACTOR SHALL TAKE EXTRA CARE TO AVOID DAMAGE TO EXISTING STRUCTURES & UTILITIES LOCATED ON ADJACENT PROPERTIES WHILE PERFORMING GRADING OPERATIONS.

NOTE: POWER POLE AND OTHER UTILITIES IN CONFLICT WITH CONNECTION TO OLD CANTON ROAD SHALL BE RELOCATED BY THE UTILITY COMPANY. OWNER SHALL COORDINATE WITH THE UTILITY COMPANY AND PAY FOR COSTS ASSOCIATED WITH SUCH.

- NOTES:
1. SEE NOTES ON SHEET 2 AND PROJECT SPECIFICATIONS FOR MORE DETAILED INSTALLATION AND MATERIAL REQUIREMENTS.
  2. CONTRACTOR SHALL TIE TO EXISTING CONTOURS AS SOON AS POSSIBLE AT PROJECT LIMITS WHILE PROMOTING POSITIVE DRAINAGE.
  3. IT IS THE OWNER'S RESPONSIBILITY TO OBTAIN PERMISSION TO PERFORM WORK ON ADJACENT PROPERTY FROM THE PROPERTY OWNERS SHOULD IT BE NECESSARY TO COMPLETELY INSTALL IMPROVEMENTS.
  4. FINISHED GRADES MAY VARY BASED ON ACTUAL HOUSE PLANS BUT BUILDER SHALL BE REQUIRED TO ABIDE BY DRAINAGE SCHEME. PAD SIZES SHALL BE ADJUSTED BY BUILDERS BASED ON THE PROPOSED HOUSE PLAN.
  5. COPIES OF THE FINAL GRADING PLAN SHALL BE DISTRIBUTED BY THE DEVELOPER TO ALL HOME BUILDERS THAT PURCHASE LOTS AT THE TIME OF THE SALE OF THE LOT.





GRATE INLET SCHEDULE

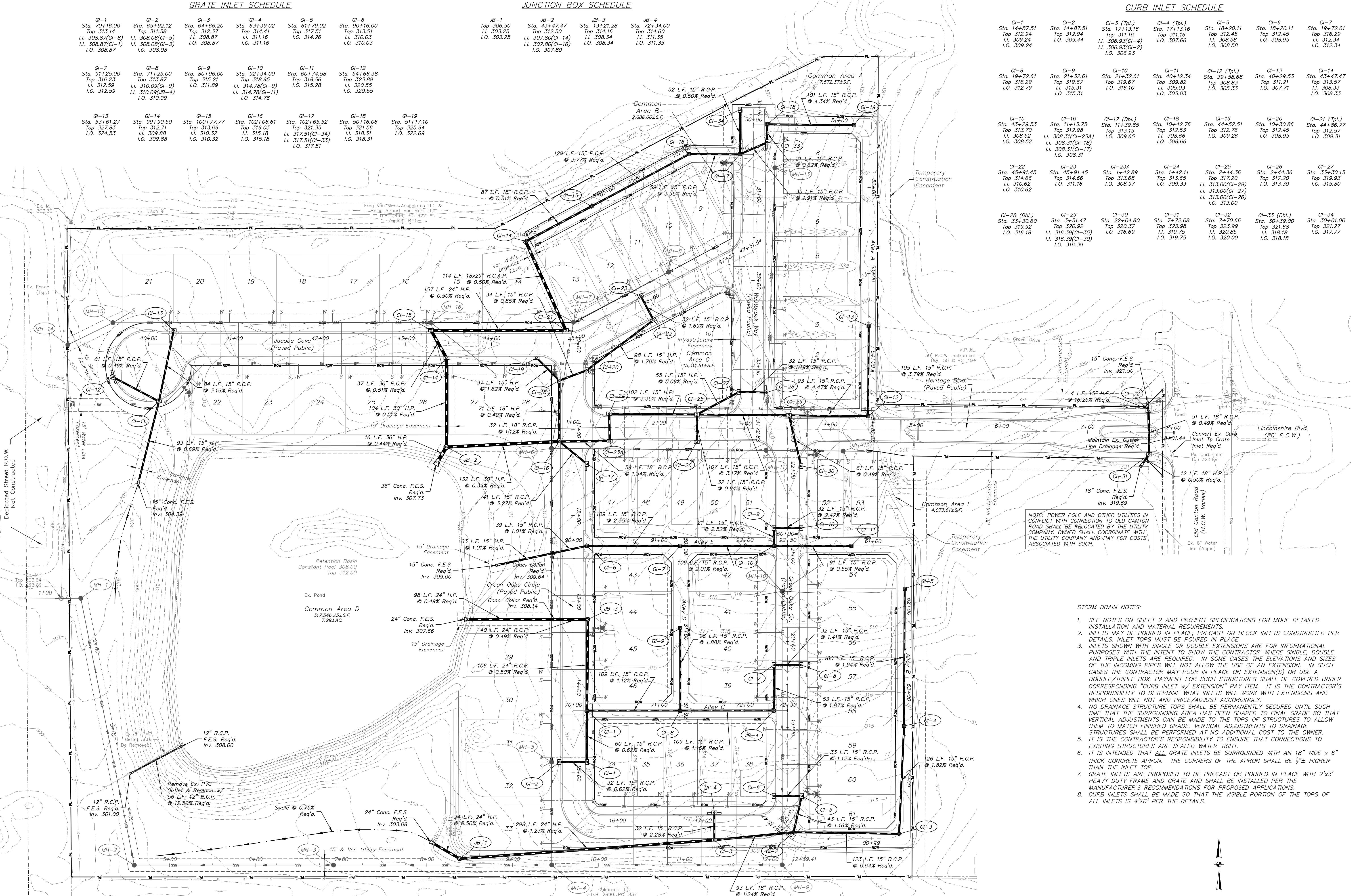
GI-1 Sta. 70+16.00 Top 313.14 I.I. 308.87(CI-B) I.O. 308.87	GI-2 Sta. 65+92.12 Top 311.58 I.I. 308.08(CI-5) I.O. 308.08	GI-3 Sta. 64+66.20 Top 312.37 I.I. 308.87 I.O. 308.87	GI-4 Sta. 63+39.02 Top 314.41 I.I. 311.16 I.O. 311.16	GI-5 Sta. 61+79.02 Top 317.51 I.O. 314.26	GI-6 Sta. 60+16.00 Top 313.89 I.I. 310.03 I.O. 310.03
GI-7 Sta. 91+25.00 Top 316.23 I.I. 312.59 I.O. 312.59	GI-8 Sta. 71+25.00 Top 312.87 I.I. 310.09(CI-9) I.O. 310.09	GI-9 Sta. 80+96.00 Top 315.21 I.O. 311.89	GI-10 Sta. 82+34.00 Top 318.95 I.I. 314.78(CI-9) I.O. 314.78	GI-11 Sta. 60+74.58 Top 318.56 I.O. 315.28	GI-12 Sta. 54+66.38 Top 323.89 I.I. 320.55 I.O. 320.55
GI-13 Sta. 53+61.27 I.O. 324.53	GI-14 Sta. 99+90.50 I.I. 309.88 I.O. 309.88	GI-15 Sta. 100+77.77 I.I. 310.32 I.O. 310.32	GI-16 Sta. 102+06.61 I.I. 315.18 I.O. 315.18	GI-17 Sta. 102+65.52 Top 321.35 I.I. 317.51(CI-34) I.O. 317.51	GI-18 Sta. 50+16.06 Top 318.31 I.O. 318.31
GI-19 Sta. 51+17.10 I.O. 322.69					

JUNCTION BOX SCHEDULE

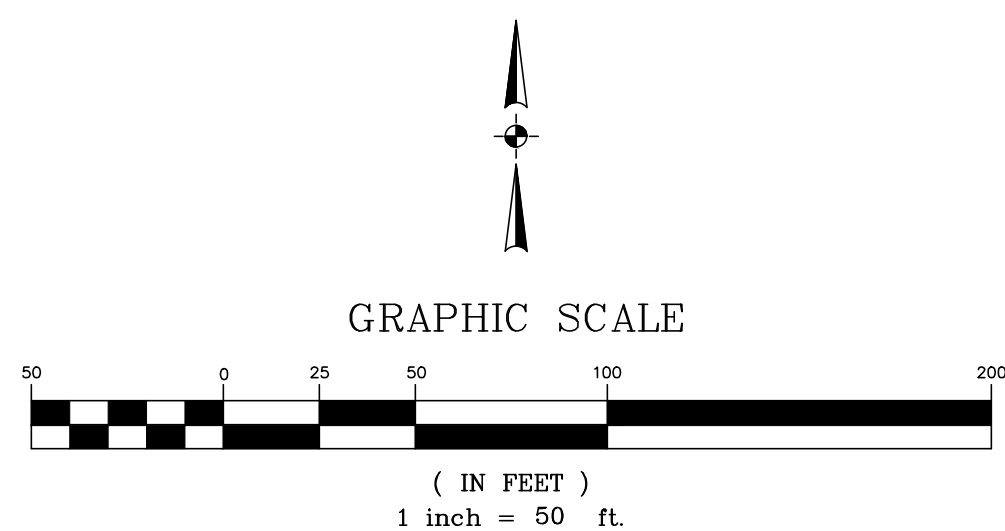
JB-1 Top 306.50 I.I. 303.25 I.O. 303.25	JB-2 Sta. 43+47.47 Top 312.50 I.I. 307.80(CI-14) I.O. 307.80	JB-3 Sta. 13+21.28 Top 314.16 I.I. 308.34 I.O. 308.34	JB-4 Sta. 72+34.00 Top 314.60 I.I. 311.35 I.O. 311.35
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CURB INLET SCHEDULE

CI-1 Sta. 14+87.51 Top 312.94 I.I. 309.24 I.O. 309.24	CI-2 Sta. 14+87.51 Top 312.94 I.O. 309.44	CI-3 (Tpl.) Sta. 17+13.16 Top 311.16 I.I. 306.93(CI-4) I.O. 306.93	CI-4 (Tpl.) Sta. 17+13.16 Top 311.16 I.O. 307.66	CI-5 Sta. 18+20.11 Top 312.45 I.I. 308.58 I.O. 308.58	CI-6 Sta. 18+20.11 Top 312.45 I.O. 308.95	CI-7 Sta. 19+72.61 Top 312.29 I.I. 312.34 I.O. 312.34
CI-8 Sta. 19+72.61 Top 312.29 I.O. 312.79	CI-9 Sta. 21+32.61 Top 315.31 I.O. 315.31	CI-10 Sta. 21+32.61 Top 311.16 I.O. 316.10	CI-11 Sta. 40+12.34 Top 311.62 I.I. 305.03 I.O. 305.03	CI-12 (Tpl.) Sta. 39+56.68 Top 312.76 I.O. 305.33	CI-13 Sta. 40+29.53 Top 311.21 I.O. 307.71	CI-14 Sta. 43+47.47 Top 312.57 I.I. 308.33 I.O. 308.33
CI-15 Sta. 43+29.53 Top 312.70 I.O. 308.52	CI-16 Sta. 11+13.75 Top 319.69 I.I. 308.31(CI-23A) I.O. 308.31	CI-17 (Dbl.) Sta. 11+13.75 Top 319.69 I.O. 309.65	CI-18 Sta. 10+42.78 Top 312.68 I.O. 308.66	CI-19 Sta. 44+52.51 Top 312.20 I.O. 309.26	CI-20 Sta. 10+30.86 Top 311.20 I.O. 308.95	CI-21 (Tpl.) Sta. 44+86.77 Top 312.57 I.O. 309.31
CI-22 Sta. 45+91.45 Top 310.62 I.O. 310.62	CI-23 Sta. 45+91.45 Top 314.66 I.O. 311.16	CI-23A Sta. 11+42.89 Top 312.68 I.O. 308.97	CI-24 Sta. 11+42.11 Top 312.68 I.O. 309.33	CI-25 Sta. 24+44.36 Top 313.00(CI-29) I.O. 313.00	CI-26 Sta. 24+44.36 Top 313.20 I.O. 313.30	CI-27 Sta. 33+30.15 Top 312.57 I.O. 315.80
CI-28 (Dbl.) Sta. 33+30.60 Top 310.62 I.O. 316.18	CI-29 Sta. 3+51.47 Top 320.92 I.I. 316.39(CI-35) I.O. 316.39	CI-30 Sta. 22+04.80 Top 316.69 I.O. 316.69	CI-31 Sta. 11+42.08 Top 312.68 I.O. 319.75	CI-32 Sta. 7+70.66 Top 312.68 I.O. 320.85	CI-33 (Dbl.) Sta. 30+39.00 Top 312.45 I.O. 318.18	CI-34 Sta. 30+01.00 Top 312.77 I.O. 317.77



- STORM DRAIN NOTES:
- SEE NOTES ON SHEET 2 AND PROJECT SPECIFICATIONS FOR MORE DETAILED INSTALLATION AND MATERIAL REQUIREMENTS.
  - INLETS MAY BE POURED IN PLACE, PRECAST OR BLOCK INLETS CONSTRUCTED PER DETAILS. INLET TOPS MUST BE POURED IN PLACE.
  - INLETS SHOWN WITH SINGLE OR DOUBLE EXTENSIONS ARE FOR INFORMATIONAL PURPOSES WITH THE INTENT TO SHOW THE CONTRACTOR WHERE SINGLE, DOUBLE AND TRIPLE INLETS ARE REQUIRED. IN SOME CASES THE ELEVATIONS AND SIZES OF THE INCOMING PIPES WILL NOT ALLOW THE USE OF AN EXTENSION. IN SUCH CASES THE CONTRACTOR MAY POUR IN PLACE ON EXTENSION(S) OR USE A DOUBLE/TRIPLE BOX. PAYMENT FOR SUCH STRUCTURES SHALL BE COVERED UNDER CORRESPONDING "CURB INLET W/ EXTENSION" PAY ITEM. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE WHAT INLETS WILL WORK WITH EXTENSIONS AND WHICH ONES WILL NOT AND PRICE/ADJUST ACCORDINGLY.
  - NO DRAINAGE STRUCTURE TOPS SHALL BE PERMANENTLY SECURED UNTIL SUCH TIME THAT THE SURROUNDING AREA HAS BEEN SHAPED TO FINAL GRADE SO THAT VERTICAL ADJUSTMENTS CAN BE MADE TO THE TOPS OF STRUCTURES TO ALLOW THEM TO MATCH FINISHED GRADE. VERTICAL ADJUSTMENTS TO DRAINAGE STRUCTURES SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER.
  - IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT CONNECTIONS TO EXISTING STRUCTURES ARE SEALED WATER TIGHT.
  - IT IS INTENDED THAT ALL GRATE INLETS BE SURROUNDED WITH AN 18" WIDE x 6" THICK CONCRETE APRON. THE CORNERS OF THE APRON SHALL BE 1/2" HIGHER THAN THE INLET TOP.
  - GRATE INLETS ARE PROPOSED TO BE PRECAST OR POURED IN PLACE WITH 2'x3' HEAVY DUTY FRAME AND GRATE AND SHALL BE INSTALLED PER THE MANUFACTURER'S RECOMMENDATIONS FOR PROPOSED APPLICATIONS.
  - CURB INLETS SHALL BE MADE SO THAT THE VISIBLE PORTION OF THE TOPS OF ALL INLETS IS 4'x6" PER THE DETAILS.





CONSTRUCTION & EROSION CONTROL SEQUENCE SCHEDULE

THE SCHEDULE LAID OUT BELOW IS TO PROVIDE CLARIFICATION TO THE CONTRACTOR ON THE INTENDED ORDER OF CONSTRUCTION IN CONJUNCTION WITH THE REQUIRED EROSION CONTROL MEASURES OF THIS PROJECT AS SHOWN ON THE CONSTRUCTION PLANS AND OTHER CONTRACT DOCUMENTS.

- 1. INSTALL CONSTRUCTION ACCESS ROAD TO PROJECT SITE.
2. INSTALL SANITARY FACILITIES AND TRASH CONTAINERS.
3. SET UP EQUIPMENT AND MATERIALS STAGING AREA IF NEEDED BY THE CONTRACTOR FOR PROJECT.
4. INSTALL SILT FENCING ALONG THE DOWNSTREAM BOUNDARY OF ANY AREAS THAT WILL BE DISTURBED.
5. BEGIN CLEARING & GRUBBING AND STRIPPING OPERATIONS.
6. INSTALL SEDIMENT BASIN.
7. BEGIN CLEARING & GRUBBING AND STRIPPING OPERATIONS ON THE REMAINDER OF THE SITE.
8. BEGIN GRADING OPERATIONS TO GET THE PROJECT SITE TO ROUGH GRADE. PLACE ADDITIONAL TEMPORARY MEASURES AS REQUIRED DURING THE GRADING OPERATIONS TO CONTROL RUNOFF.
9. BEGIN UTILITY INSTALLATION - INCLUDES SANITARY SEWER, STORM DRAIN, AND WATER DISTRIBUTION SYSTEM. THE WATER SYSTEM MAY GO IN BEFORE OR AFTER ROADWAY CONSTRUCTION DEPENDING ON THE CONTRACTOR'S METHODS. WRAP STORM DRAIN INLET STRUCTURES WITH WATTLES OR OTHER APPROVED BMP'S.
10. BEGIN ROADWAY INSTALLATION INCLUDING CURB/GUTTER & ASPHALT.
11. INSTALL WATTLES AS SHOWN AT STORM DRAIN STRUCTURES WITHIN THE ROADWAY.
12. FINE GRADE THE REMAINDER OF THE DISTURBED AREAS OF THE SITE.
13. STABILIZE THE PROJECT SITE WITH PERMANENT SEED & MULCH AND INSTALL ANY OTHER PERMANENT EROSION CONTROL MEASURES THAT MAY NOT BE IN PLACE.
14. REMOVE ALL TEMPORARY EROSION CONTROL MEASURES IN DRAINAGE BASINS ONCE IMPROVEMENTS REQUIRED IN THESE PLANS HAVE BEEN COMPLETED AND AREAS DISTURBED DURING INSTALLATION OF SUCH HAS BEEN STABILIZED WITHIN SAID BASIN WITH 90% VEGETATIVE COVER. THIS INCLUDES BUT IS NOT LIMITED TO TEMPORARY SILT FENCING, TEMPORARY SEDIMENT BASIN, WATTLES, ETC.

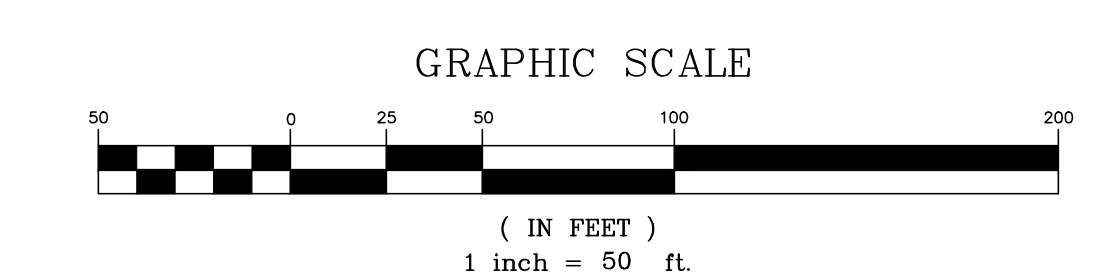
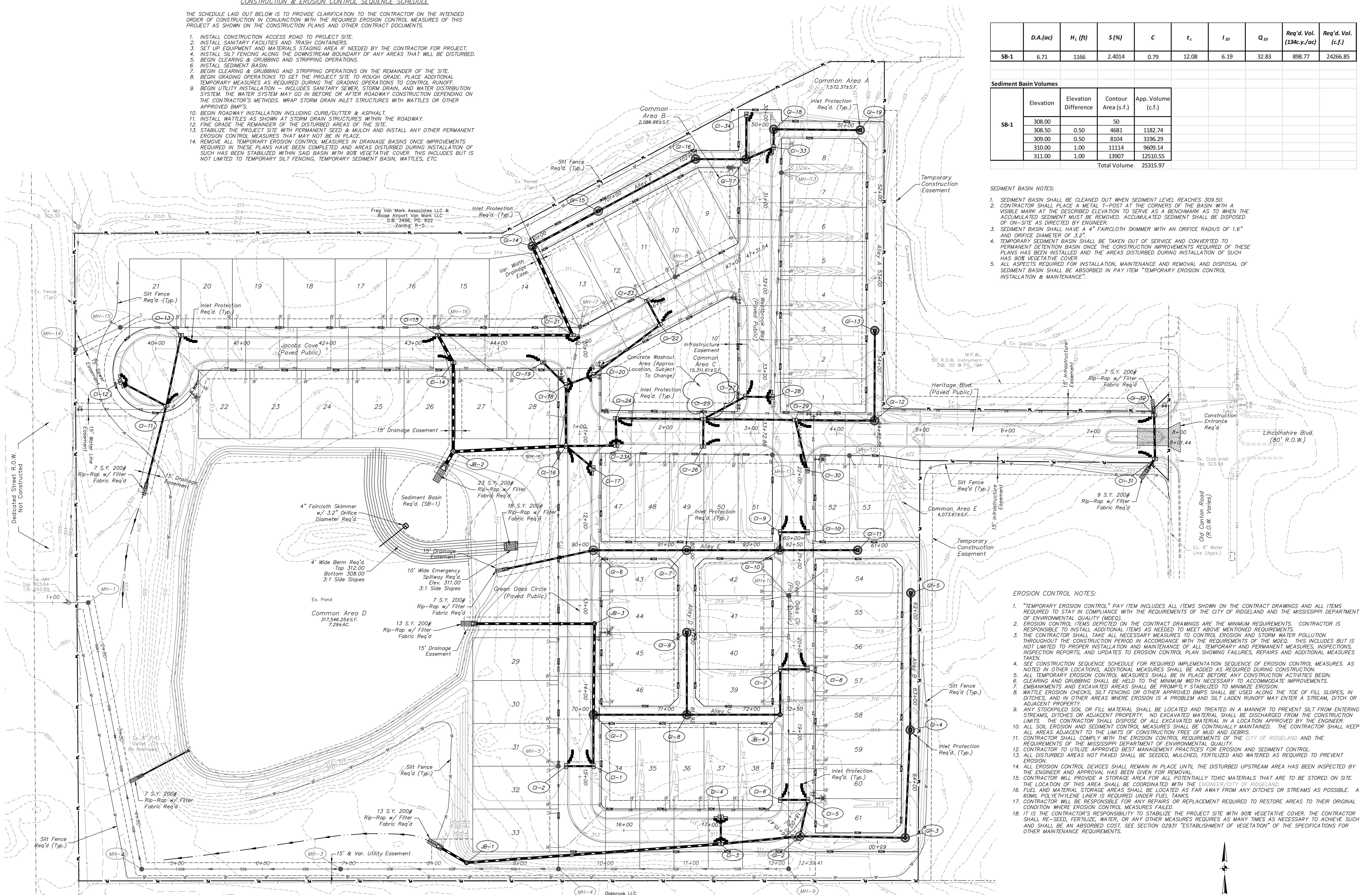
Table with 10 columns: D.A.(ac), H1 (ft), S (%), C, tc, I10, Q10, Req'd. Vol. (134c.y./ac), Req'd. Vol. (c.f.). Includes Sediment Basin Volumes table with columns: Elevation, Elevation Difference, Contour Area (s.f.), App. Volume (c.f.).

SEDIMENT BASIN NOTES:

- 1. SEDIMENT BASIN SHALL BE CLEANED OUT WHEN SEDIMENT LEVEL REACHES 309.50.
2. CONTRACTOR SHALL PLACE A METAL T-POST AT THE CORNERS OF THE BASIN WITH A VISIBLE MARK AT THE DESCRIBED ELEVATION TO SERVE AS A BENCHMARK AS TO WHEN THE ACCUMULATED SEDIMENT MUST BE REMOVED. ACCUMULATED SEDIMENT SHALL BE DISPOSED OF ON-SITE AS DIRECTED BY ENGINEER.
3. SEDIMENT BASIN SHALL HAVE A 4" FAIRCLOTH SKIMMER WITH AN ORIFICE RADIUS OF 1.6" AND ORIFICE DIAMETER OF 3/2".
4. TEMPORARY SEDIMENT BASIN SHALL BE TAKEN OUT OF SERVICE AND CONVERTED TO PERMANENT DETENTION BASIN ONCE THE CONSTRUCTION IMPROVEMENTS REQUIRED OF THESE PLANS HAS BEEN INSTALLED AND THE AREAS DISTURBED DURING INSTALLATION OF SUCH HAS 90% VEGETATIVE COVER.
5. ALL ASPECTS REQUIRED FOR INSTALLATION, MAINTENANCE AND REMOVAL AND DISPOSAL OF SEDIMENT BASIN SHALL BE ABSORBED IN PAY ITEM "TEMPORARY EROSION CONTROL INSTALLATION & MAINTENANCE".

EROSION CONTROL NOTES:

- 1. "TEMPORARY EROSION CONTROL" PAY ITEM INCLUDES ALL ITEMS SHOWN ON THE CONTRACT DRAWINGS AND ALL ITEMS REQUIRED TO STAY IN COMPLIANCE WITH THE REQUIREMENTS OF THE CITY OF RIDGELAND AND THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY (MDEQ).
2. EROSION CONTROL ITEMS DEPICTED ON THE CONTRACT DRAWINGS ARE THE MINIMUM REQUIREMENTS. CONTRACTOR IS RESPONSIBLE TO INSTALL ADDITIONAL ITEMS AS NEEDED TO MEET ABOVE MENTIONED REQUIREMENTS.
3. THE CONTRACTOR SHALL TAKE ALL NECESSARY MEASURES TO CONTROL EROSION AND STORM WATER POLLUTION THROUGHOUT THE CONSTRUCTION PERIOD IN ACCORDANCE WITH THE REQUIREMENTS OF THE MDEQ. THIS INCLUDES BUT IS NOT LIMITED TO PROPER INSTALLATION AND MAINTENANCE OF ALL TEMPORARY AND PERMANENT MEASURES, INSPECTIONS, INSPECTION REPORTS, AND UPDATES TO EROSION CONTROL PLAN SHOWING FAILURES, REPAIRS AND ADDITIONAL MEASURES TAKEN.
4. SEE CONSTRUCTION SEQUENCE SCHEDULE FOR REQUIRED IMPLEMENTATION SEQUENCE OF EROSION CONTROL MEASURES. AS NOTED IN OTHER LOCATIONS, ADDITIONAL MEASURES SHALL BE ADDED AS REQUIRED DURING CONSTRUCTION.
5. ALL TEMPORARY EROSION CONTROL MEASURES SHALL BE IN PLACE BEFORE ANY CONSTRUCTION ACTIVITIES BEGIN.
6. CLEARING AND GRUBBING SHALL BE HELD TO THE MINIMUM WITH NECESSARY TO ACCOMMODATE IMPROVEMENTS.
7. EMBANKMENTS AND EXCAVATED AREAS SHALL BE PROMPTLY STABILIZED TO MINIMIZE EROSION.
8. WATTLE EROSION CHECKS, SILT FENCING OR OTHER APPROVED BMP'S SHALL BE USED ALONG THE TOE OF FILL SLOPES, IN DITCHES, AND IN OTHER AREAS WHERE EROSION IS A PROBLEM AND SILT LADEN RUNOFF MAY ENTER A STREAM, DITCH OR ADJACENT PROPERTY.
9. ANY STOCKPILED SOIL OR FILL MATERIAL SHALL BE LOCATED AND TREATED IN A MANNER TO PREVENT SILT FROM ENTERING STREAMS, DITCHES OR ADJACENT PROPERTY. NO EXCAVATED MATERIAL SHALL BE DISCHARGED FROM THE CONSTRUCTION LIMITS. THE CONTRACTOR SHALL DISPOSE OF ALL EXCAVATED MATERIAL IN A LOCATION APPROVED BY THE ENGINEER.
10. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUALLY MAINTAINED. THE CONTRACTOR SHALL KEEP ALL AREAS ADJACENT TO THE LIMITS OF CONSTRUCTION FREE OF MUD AND DEBRIS.
11. CONTRACTOR SHALL COMPLY WITH THE EROSION CONTROL REQUIREMENTS OF THE CITY OF RIDGELAND AND THE REQUIREMENTS OF THE MISSISSIPPI DEPARTMENT OF ENVIRONMENTAL QUALITY.
12. CONTRACTOR TO UTILIZE APPROVED BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL.
13. ALL DISTURBED AREAS NOT PAVED SHALL BE SEED, MULCHED, FERTILIZED AND WATERED AS REQUIRED TO PREVENT EROSION.
14. ALL EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL THE DISTURBED UPSTREAM AREA HAS BEEN INSPECTED BY THE ENGINEER AND APPROVAL HAS BEEN GIVEN FOR REMOVAL.
15. CONTRACTOR WILL PROVIDE A STORAGE AREA FOR ALL POTENTIALLY TOXIC MATERIALS THAT ARE TO BE STORED ON SITE. THE LOCATION OF THIS AREA SHALL BE COORDINATED WITH THE ENGINEER/CITY OF RIDGELAND.
16. FUEL AND MATERIAL STORAGE AREAS SHALL BE LOCATED AS FAR AWAY FROM ANY DITCHES OR STREAMS AS POSSIBLE. A 60ML POLYETHYLENE LINER IS REQUIRED UNDER FUEL TANKS.
17. CONTRACTOR WILL BE RESPONSIBLE FOR ANY REPAIRS OR REPLACEMENT REQUIRED TO RESTORE AREAS TO THEIR ORIGINAL CONDITION WHERE EROSION CONTROL MEASURES FAILED.
18. IT IS THE CONTRACTOR'S RESPONSIBILITY TO STABILIZE THE PROJECT SITE WITH 90% VEGETATIVE COVER. THE CONTRACTOR SHALL RE-SEED, FERTILIZE, WATER, OR ANY OTHER MEASURES REQUIRES AS MANY TIMES AS NECESSARY TO ACHIEVE, SUCH AND SHALL BE AN ABSORBED COST. SEE SECTION 02931 "ESTABLISHMENT OF VEGETATION" OF THE SPECIFICATIONS FOR OTHER MAINTENANCE REQUIREMENTS.



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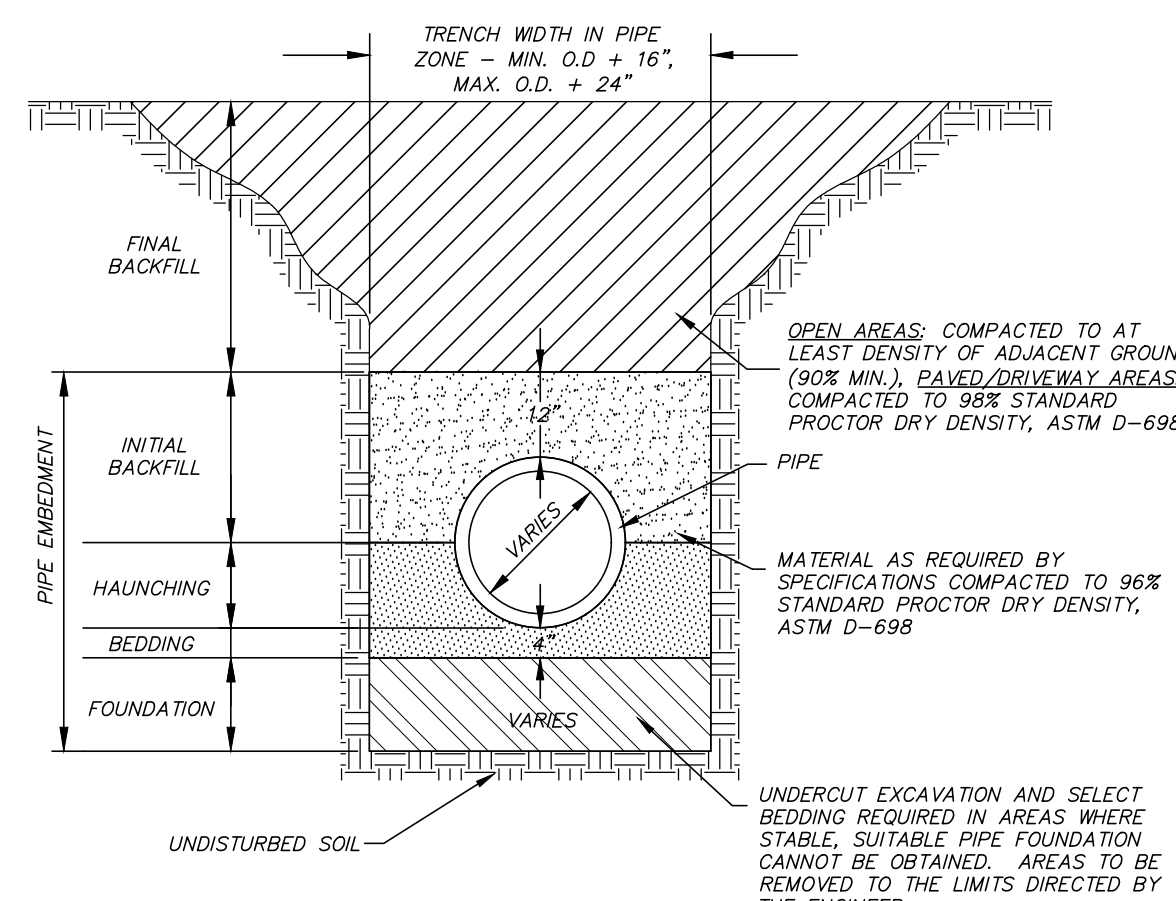
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PROJECT:
THE HERITAGE AT JACOBS FARM
SHEET CONTENTS:
EROSION CONTROL LAYOUT

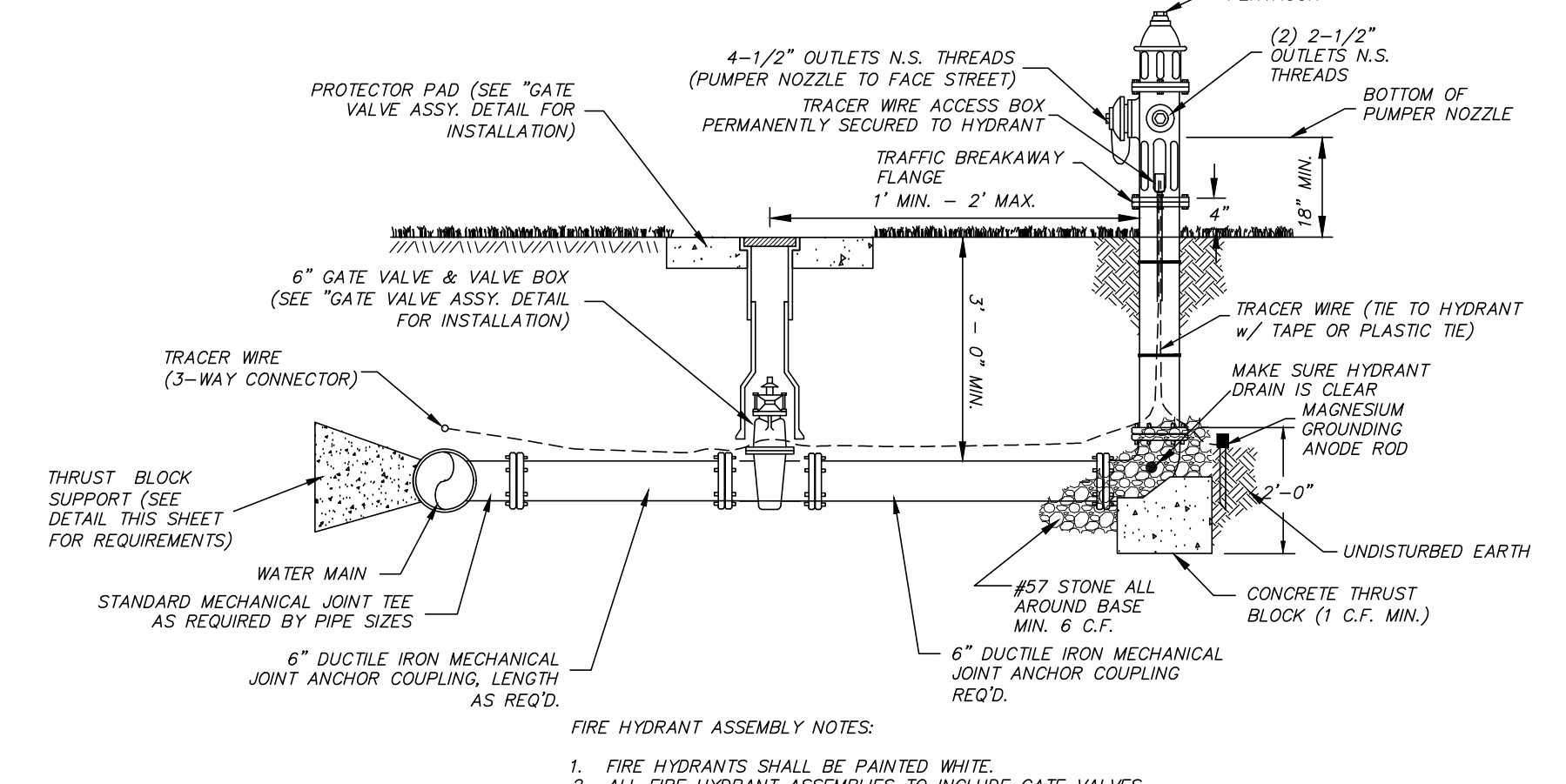
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PROJECT NUMBER
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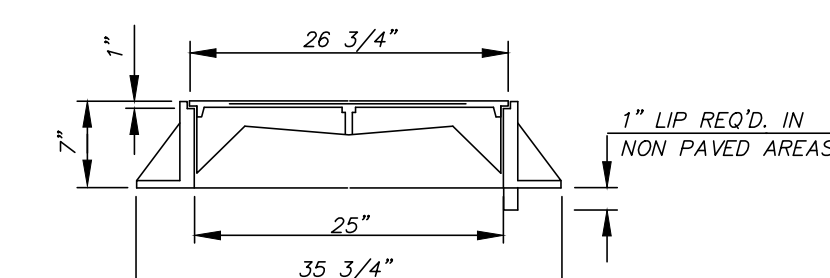


TYPICAL TRENCH DETAIL FOR WATER AND/OR SANITARY SEWER LINES

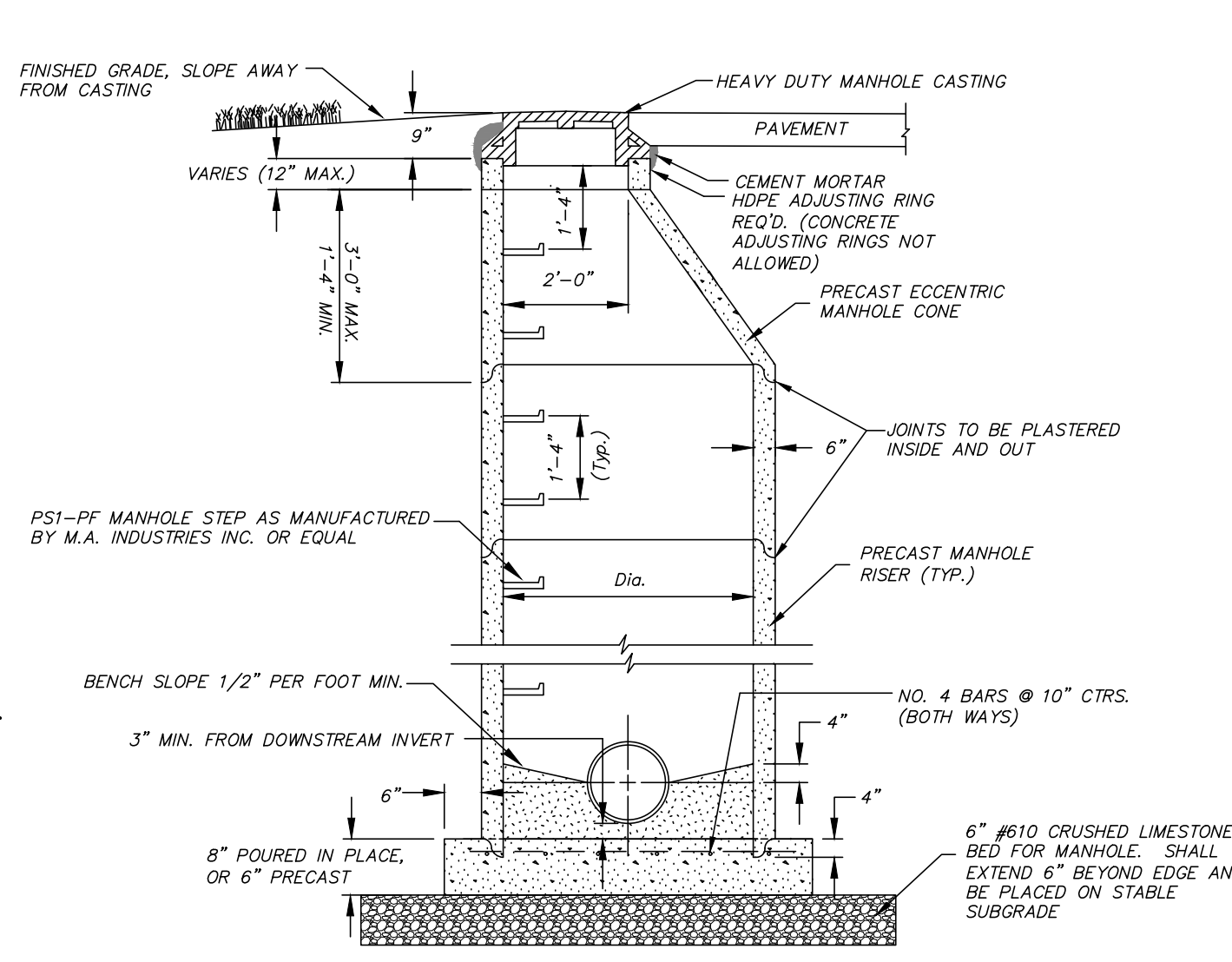
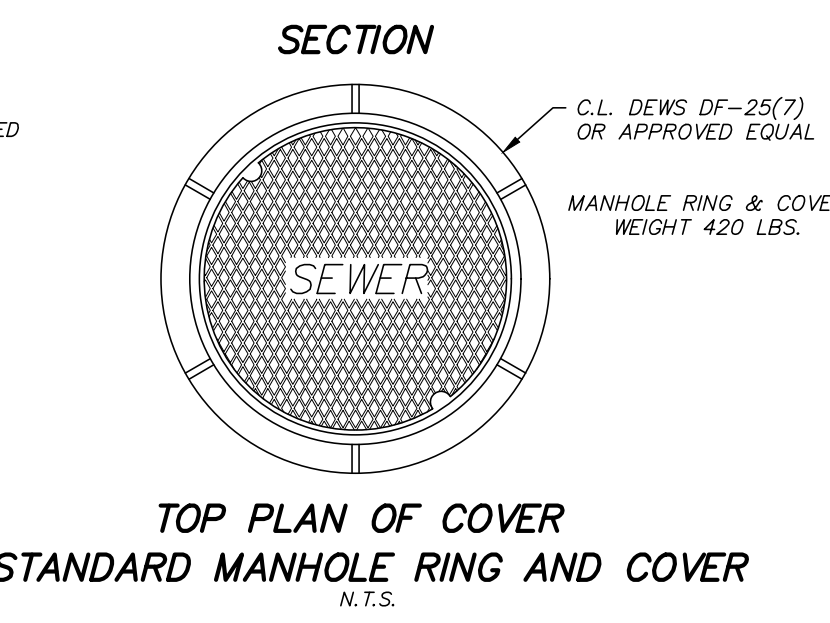
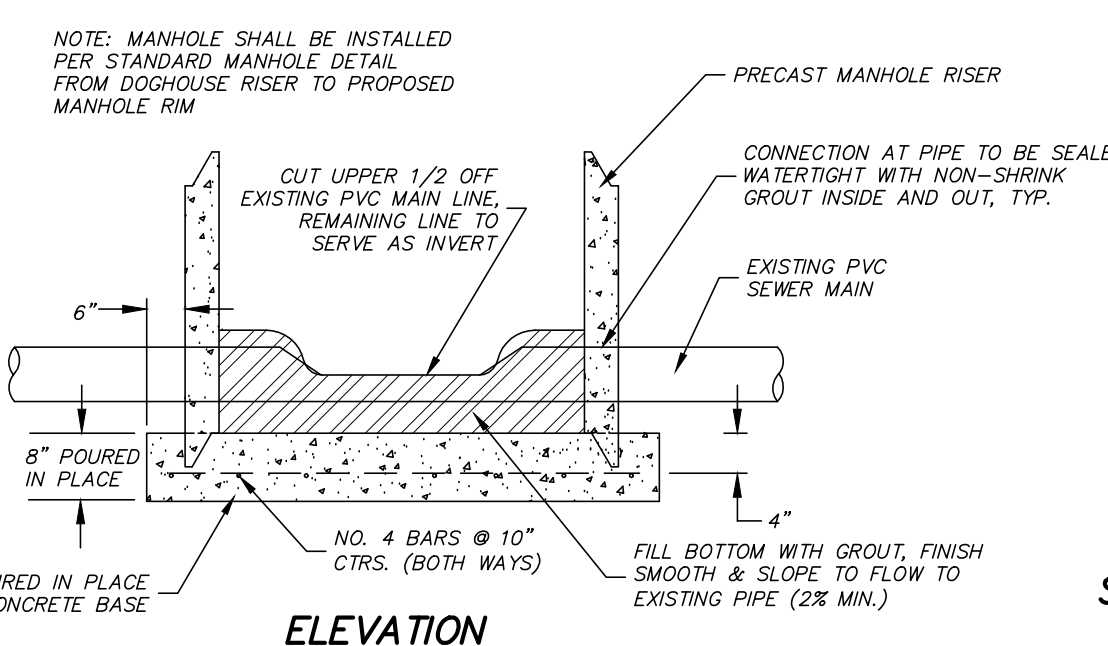
- TYPICAL TRENCH NOTES:
- UNDERTUCK EXCAVATION SHALL BE REQUIRED AS DIRECTED BY ENGINEER IF MATERIAL AT PLANNED GRADE WILL NOT PROVIDE STABLE TRENCH BOTTOM FOR PIPE LAYING. COST FOR REMOVAL AND DISPOSAL SHALL BE AN ABSORBED COST.
  - FOUNDATION MATERIAL SHALL BE PLACED AS DIRECTED BY ENGINEER AND SHALL BE AN ABSORBED COST.
  - IF CONTRACTOR PROPOSES TO USE NATIVE MATERIAL FOR PIPE EMBEDEDMENT AND/OR FINAL BACKFILL, CONTRACTOR SHALL PROVIDE TEST RESULTS PER SPECIFICATIONS TO ENGINEER STATING WHETHER NATIVE MATERIAL MEETS PROJECT SPECIFICATIONS FOR USE AS SUCH. IF IT DOES NOT MEET SPECIFICATION, THEN CONTRACTOR SHALL PROVIDE MATERIAL FOR SAID PURPOSES AND SPOIL EXCESS MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
  - BEDDING, HAUNCHING & INITIAL BACKFILL MATERIAL SHALL BE AN ABSORBED COST PER FOOT OF PIPE. FINAL BACKFILL SHALL BE EITHER:
    - NATIVE MATERIAL IN OPEN AREAS UNLESS OTHERWISE DIRECTED BY THE ENGINEER, OR
    - SELECT MATERIAL IN TRENCHES CONSTRUCTED UNDER OR WITHIN 5' OF ROADWAYS, CURBED OR PAVED AREAS. MATERIAL SHALL EXTEND 5' BEYOND THE EDGE OF PAVING STRUCTURE(S).
  - ABSORBED COST IN EITHER CASE MENTIONED
  - TRENCH SETTLEMENT REPAIR IS THE CONTRACTOR'S RESPONSIBILITY DURING WARRANTY PERIOD
  - DEWATERING OF ANY TRENCH FOR ANY REASON IS THE RESPONSIBILITY OF THE CONTRACTOR AT NO EXTRA COST TO THE OWNER.



FLOW CHANNEL & PIPE CONNECTION DETAIL

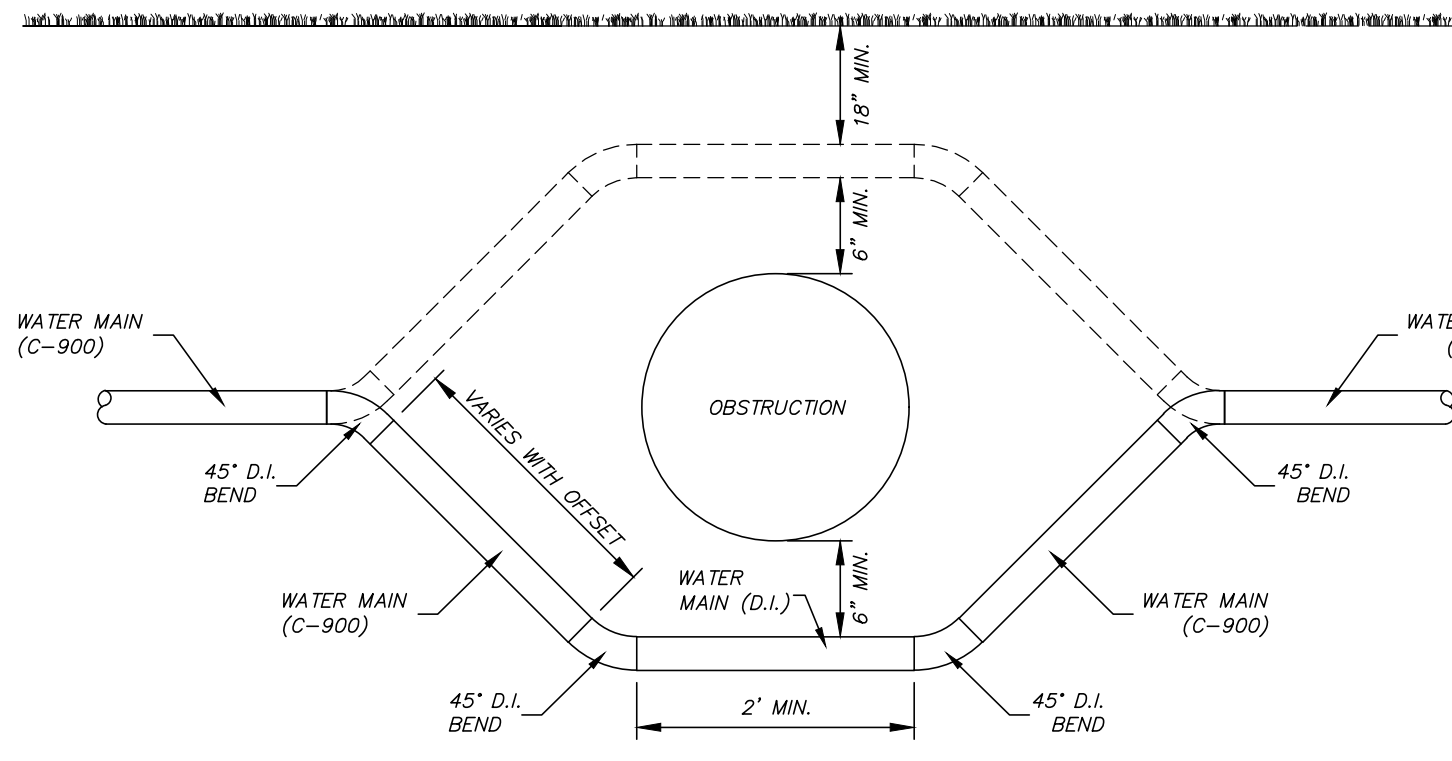


FIRE HYDRANT ASSEMBLY



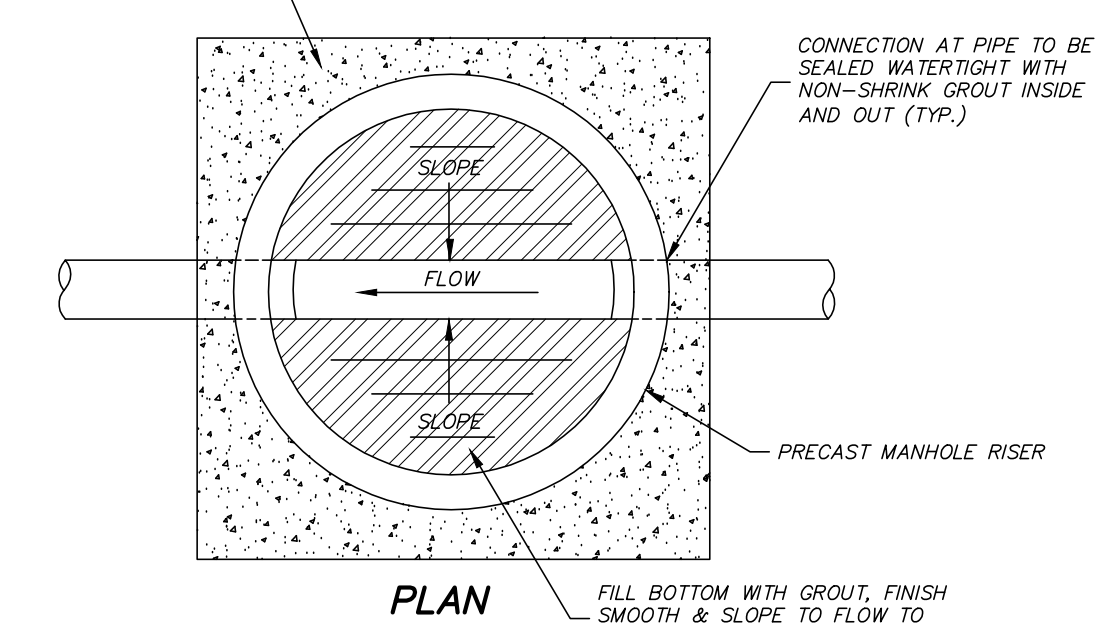
- PRECAST MANHOLE NOTES:
- THE INSIDE DIAMETER OF THE MANHOLE SHALL BE 48" FOR PIPE DIAMETERS FROM 12" THROUGH 24". ALL MANHOLE BASES (PRE-CAST OR POURED IN PLACE) SHALL HAVE NO. 4 REINFORCING BARS PLACED @ 10" CENTERS BOTH WAYS.
  - ALL MANHOLE FRAMES AND COVERS SHALL BE C.L. DEWS DF-25 (7) OR APPROVED EQUAL. TOP OF CASTINGS SHALL EXTEND 0.25' ABOVE THE FINISHED GRADE.
  - BUTYL RUBBER OR HYDROCARBON RESIN MATERIAL TO BE USED AT ALL MANHOLE SECTION JOINTS.
  - RUBBER GASKETS SHALL BE THE "O" RING TYPE CONFORMING TO THE REQUIREMENTS OF THE LATEST ASTM STANDARD SPECIFICATION A-443.
  - ALL LIFT HOLES ON EACH SECTION SHALL BE SEALED WATER TIGHT WITH NONSHRINK GROUT INSIDE AND OUT.
  - EACH GRADING RING SHALL BE LAID IN A FULL BED OF MORTAR AND SHALL BE THOROUGHLY BONDED. THE OUTSIDE OF THE GRADING RINGS SHALL BE NEATLY PLASTERED WITH 1/2" OF CEMENT MORTAR.
  - THE INTERIOR OF ALL PRECAST MANHOLE SECTIONS, SLABS AND ADJUSTING RINGS SHALL BE COATED WITH A COAL TAR EPOXY COATING THAT MEETS THE PROJECT SPECIFICATIONS UNLESS OTHERWISE SPECIFIED.
  - ALL ITEMS SHOWN ON DETAILS SHALL BE CONSIDERED ABSORBED WITH EACH MANHOLE PAY ITEM.

STANDARD PRECAST MANHOLE (ECCENTRIC CONE) N.T.S.

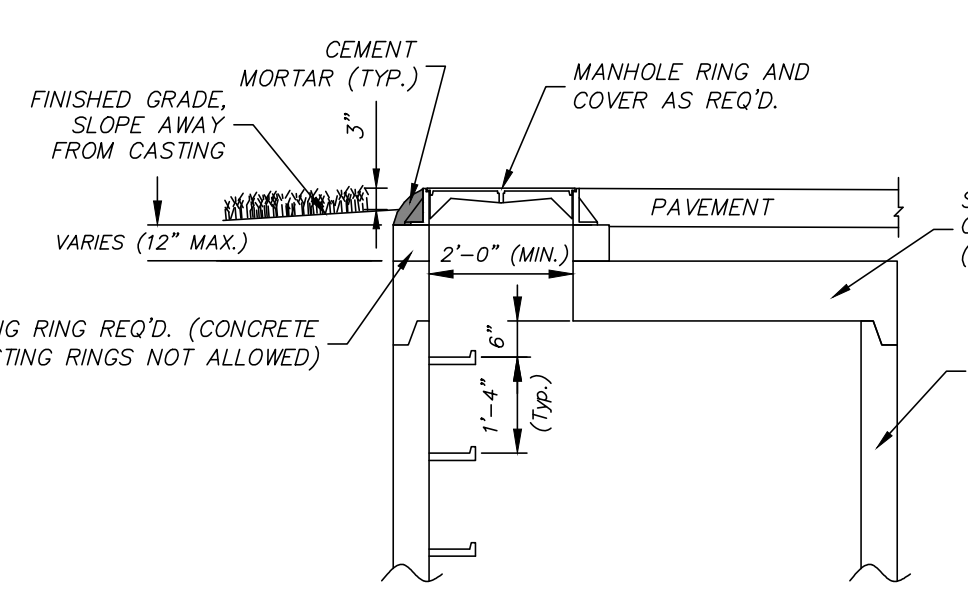


- WATER LINE OBSTRUCTION NOTES:
- CONTRACTOR TO FOLLOW CLEARANCE REQUIREMENTS IN THE SPECIFICATIONS FOR WATER, STORM DRAIN AND SANITARY SEWER LINE CROSSINGS. WHEN THE WATER LINE MUST CROSS UNDER THE OBSTRUCTION THE PIPE SHALL BE DUCTILE IRON, CASED WITH STEEL CASING, OR FULLY ENCASED WITH CONCRETE.
  - WATER LINE TO PASS OVER OBSTRUCTION IF CLEARANCE REQUIREMENTS CAN BE MET.
  - CONTRACTOR TO FOLLOW REQUIREMENTS IN THE SPECIFICATIONS FOR THE PIPE FITTINGS REQUIRED TO DODGE OBSTRUCTION.
  - SAME SPECIFICATIONS APPLY FOR SANITARY SEWER FORCE MAIN OBSTRUCTIONS.
  - WORK & MATERIALS REQUIRED FOR WATER LINE OBSTRUCTION SHALL BE AN ABSORBED COST.

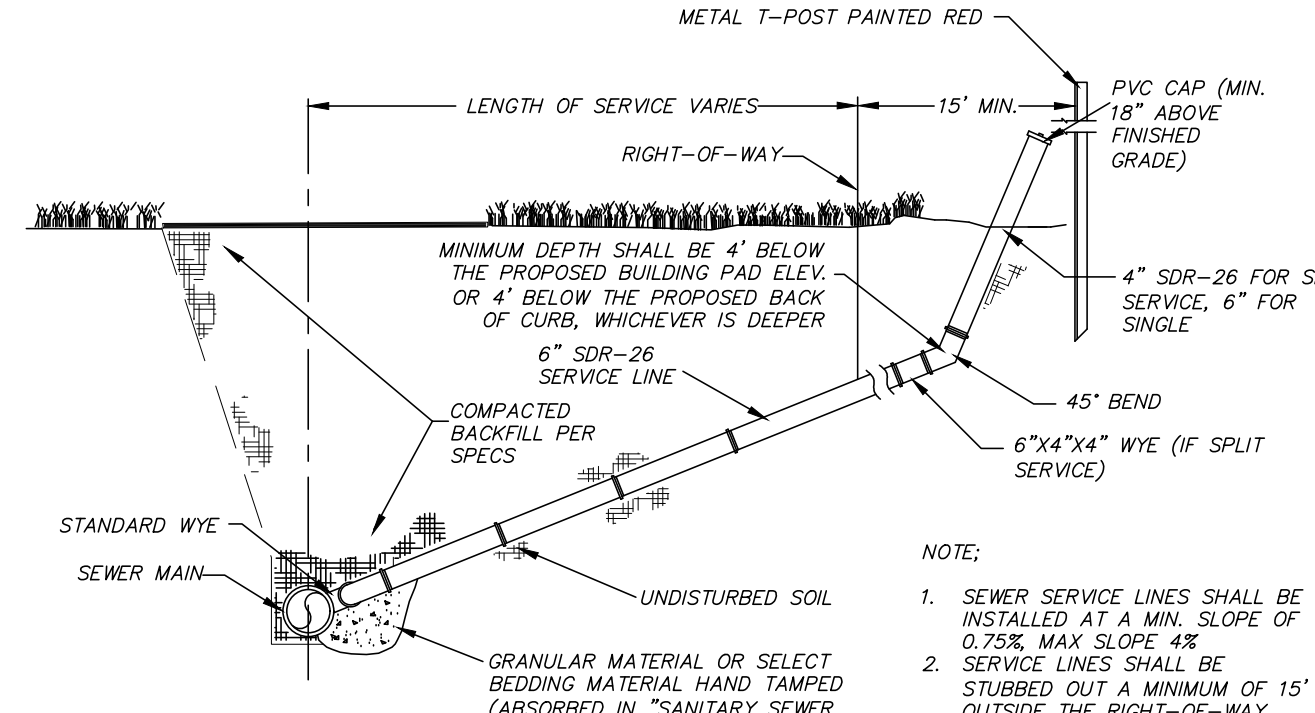
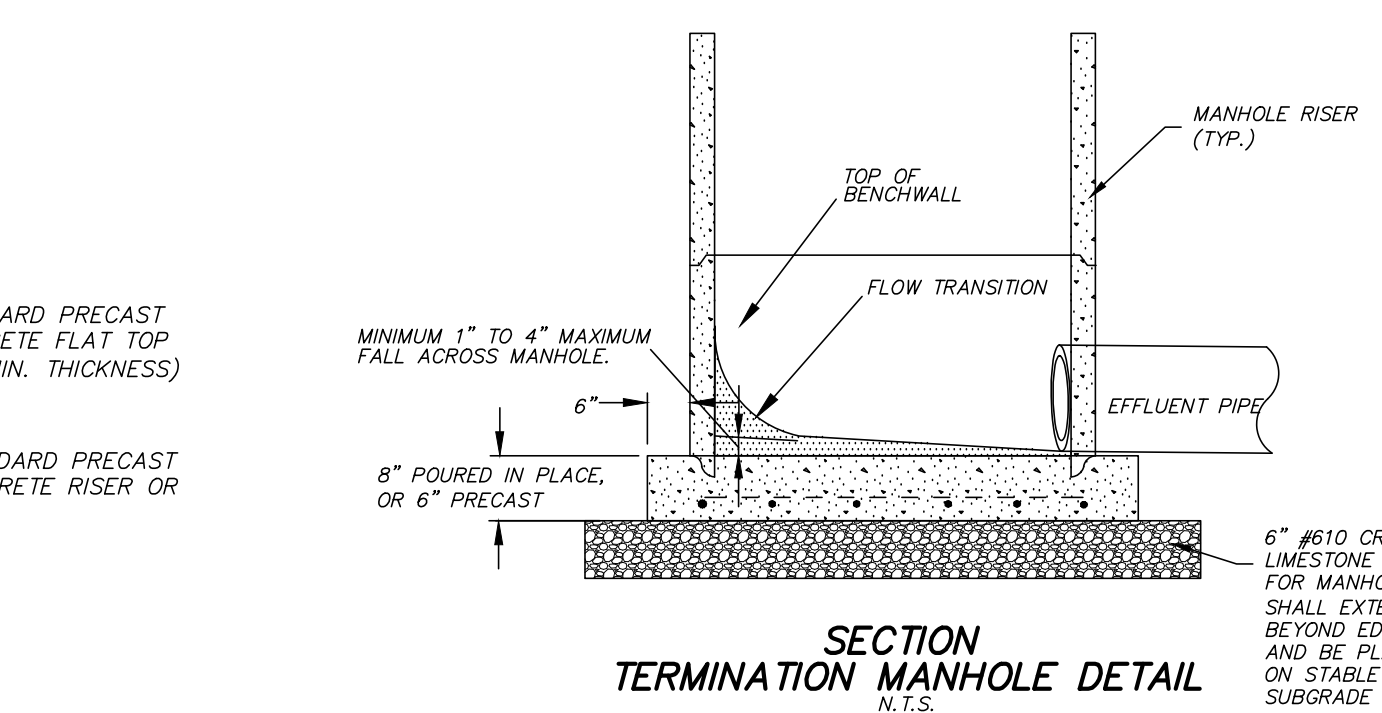
TYPICAL WATER LINE OBSTRUCTION DETAIL



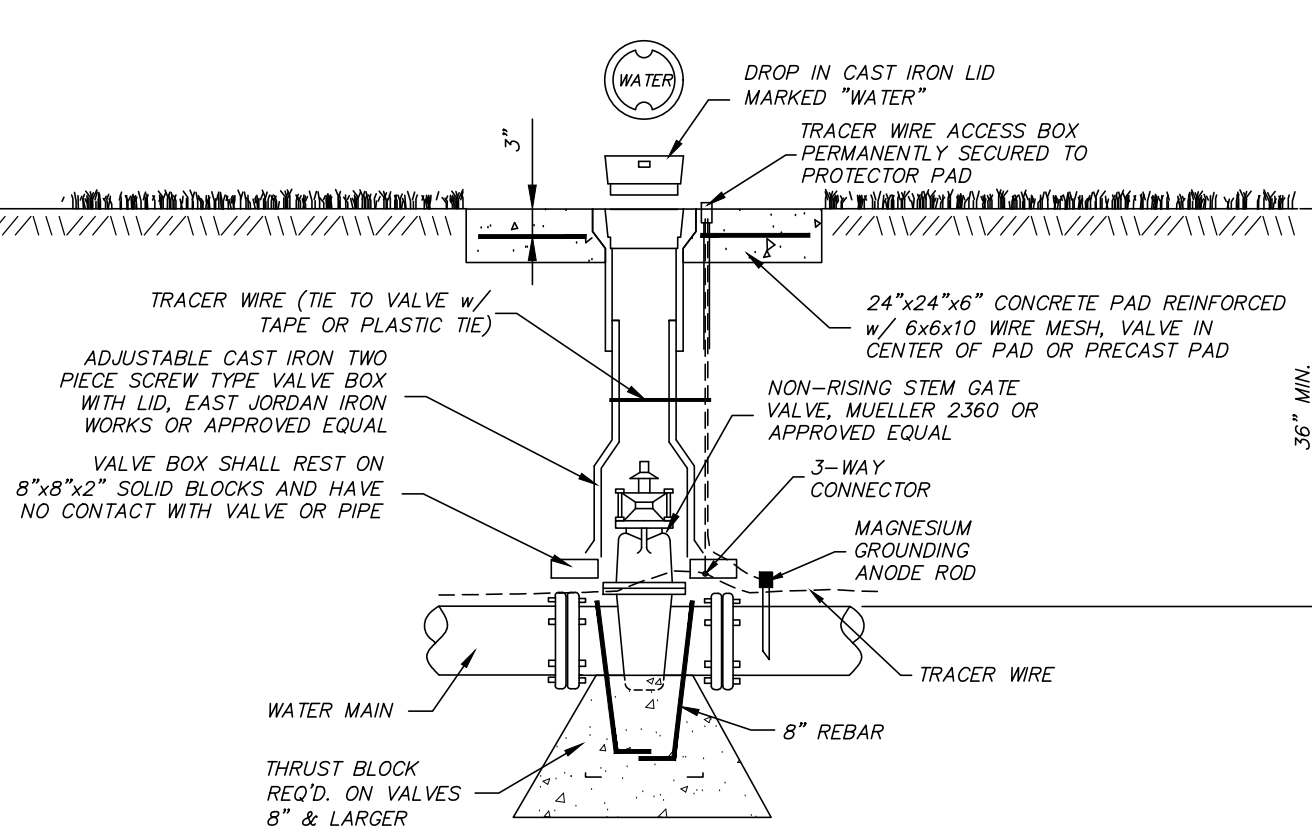
DOGHOUSE MANHOLE N.T.S.



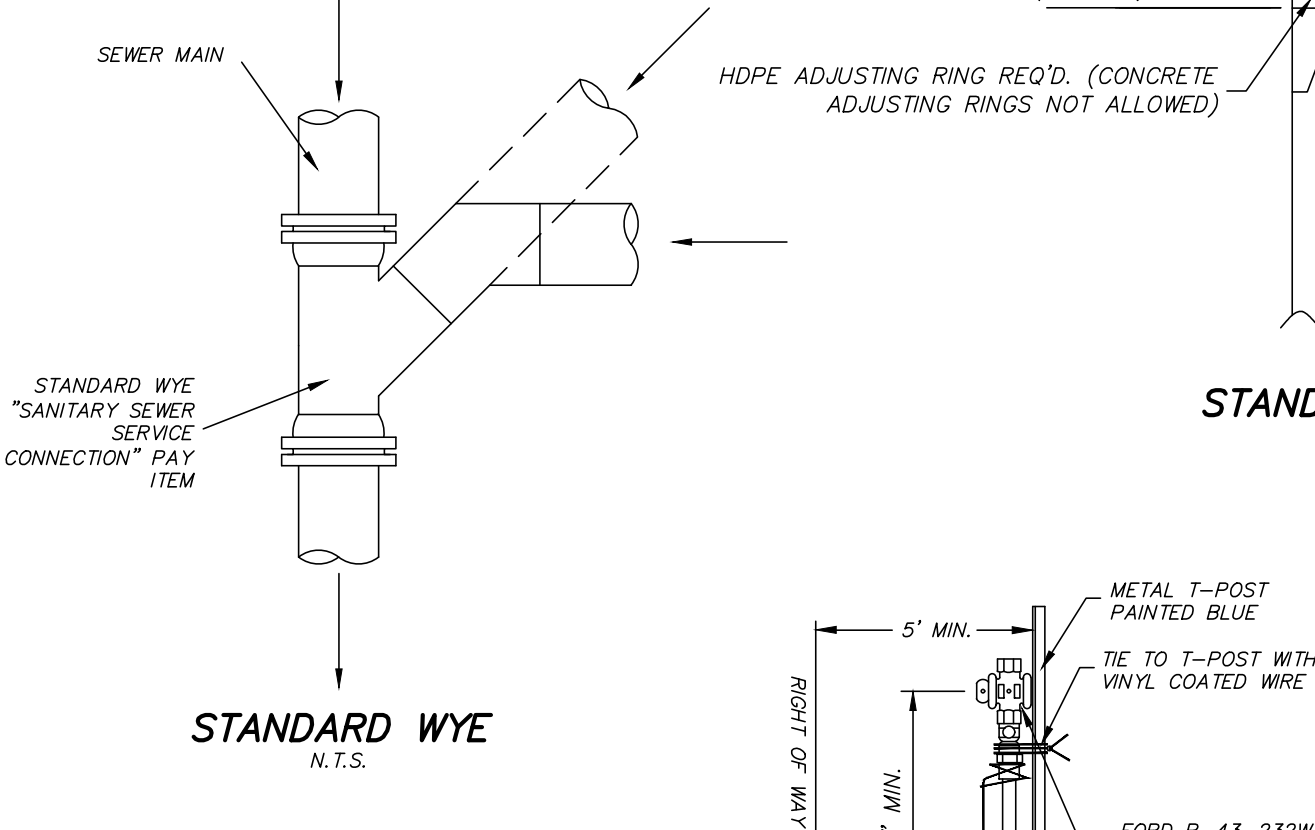
STANDARD PRECAST MANHOLE TOP (SHALLOW TYPE) N.T.S.



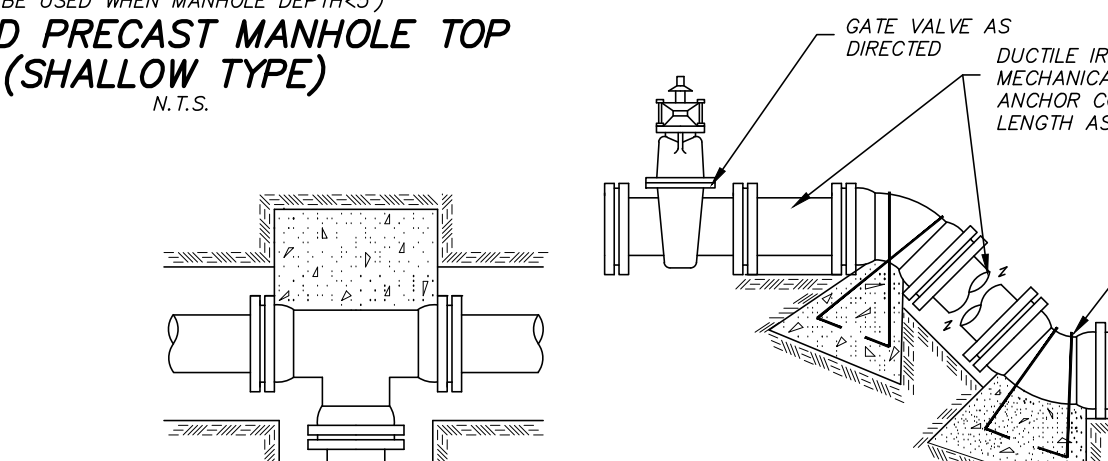
SANITARY SEWER SERVICE ASSEMBLY N.T.S.



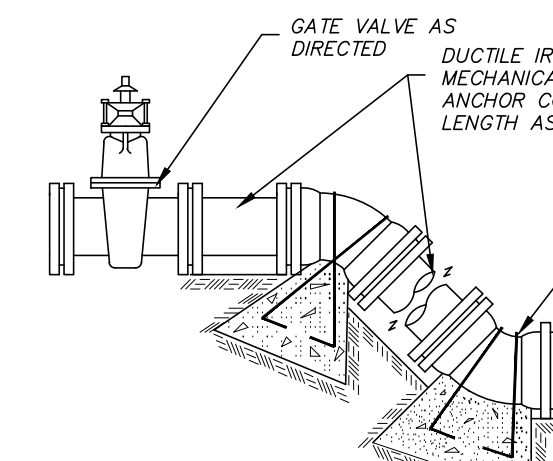
GATE VALVE ASSEMBLY



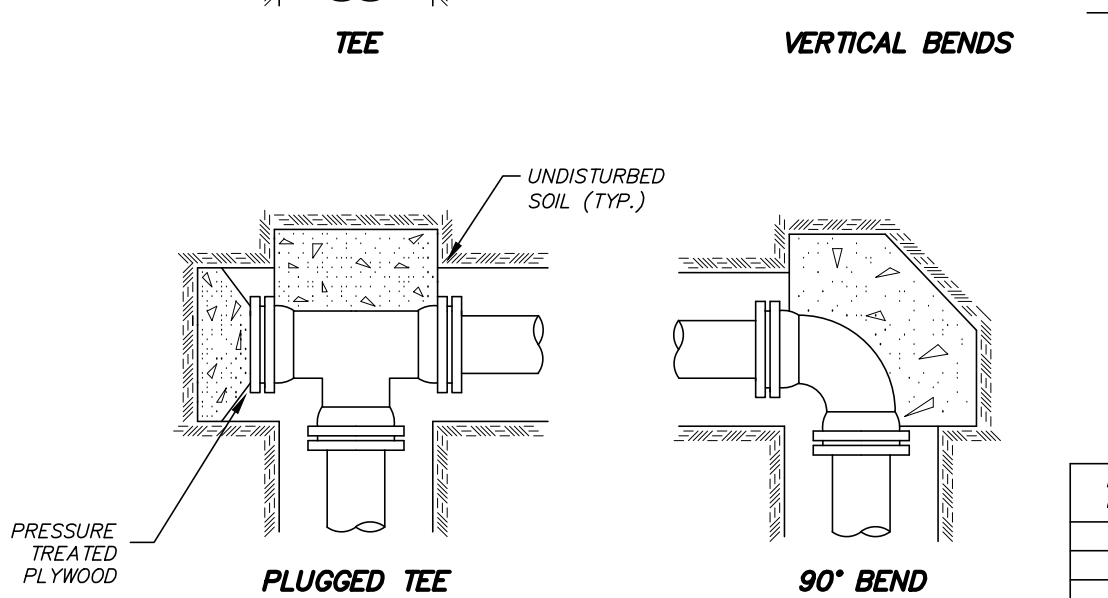
STANDARD WYE N.T.S.



TEE

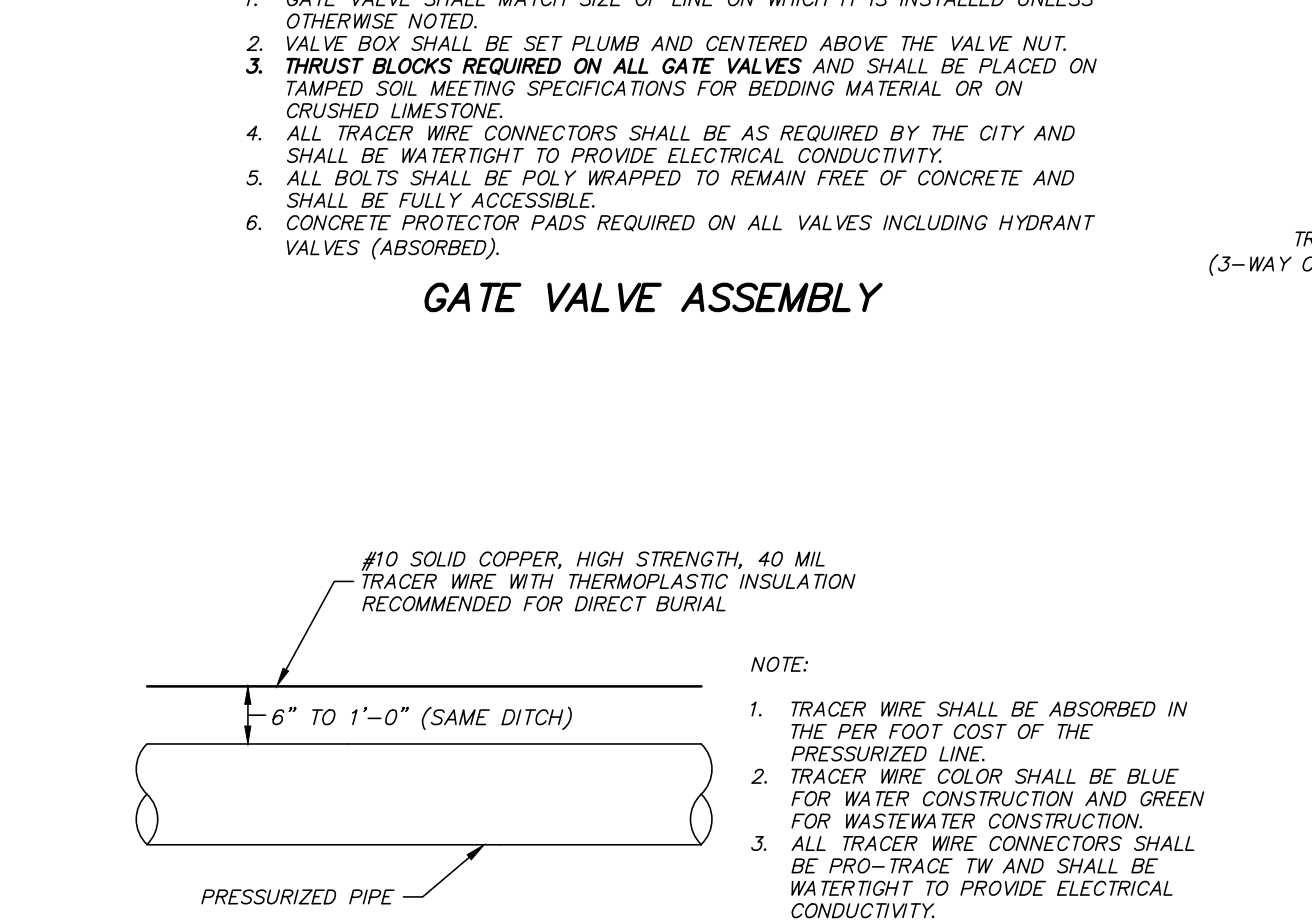


VERTICAL BENDS

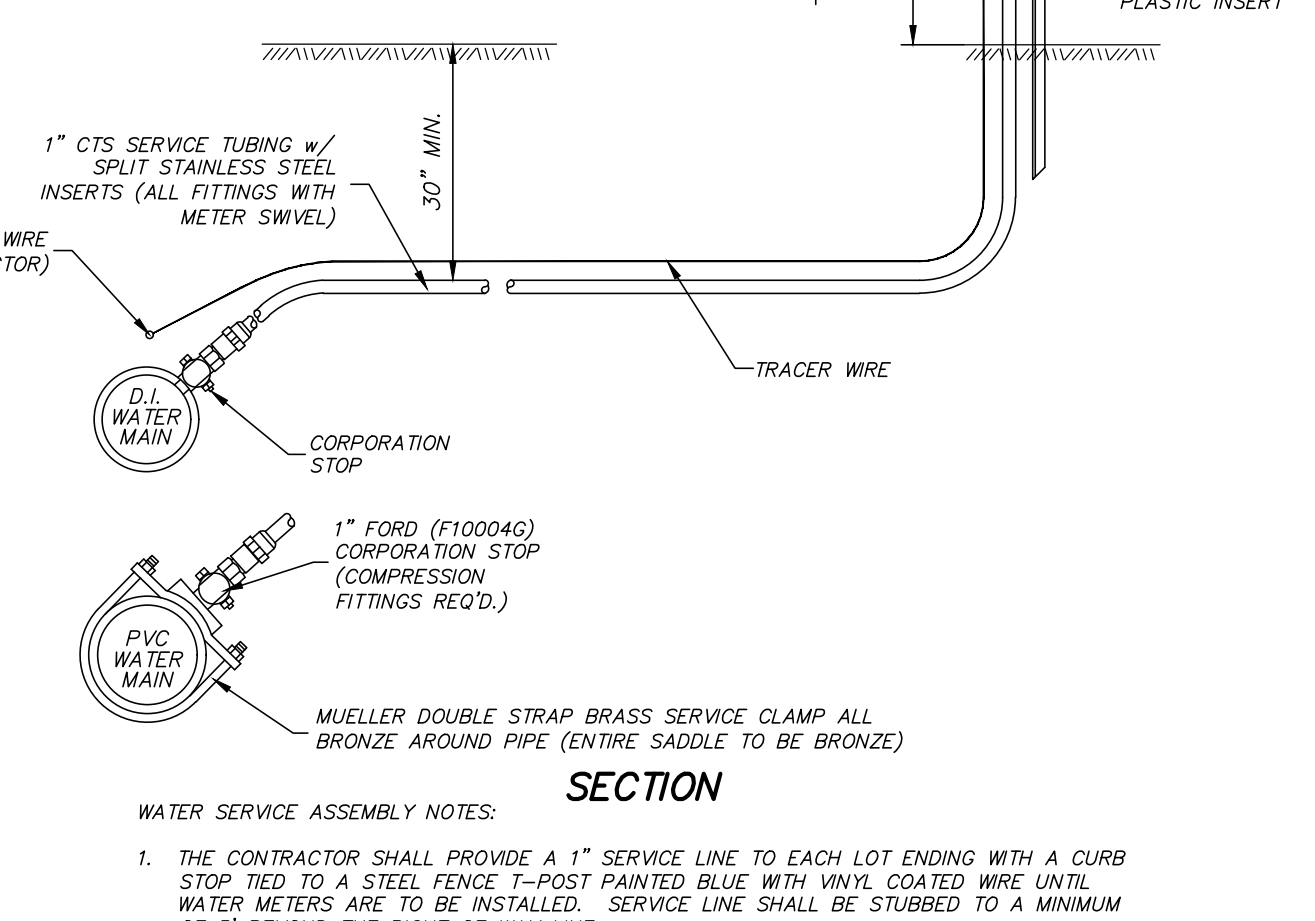


PLUGGED TEE

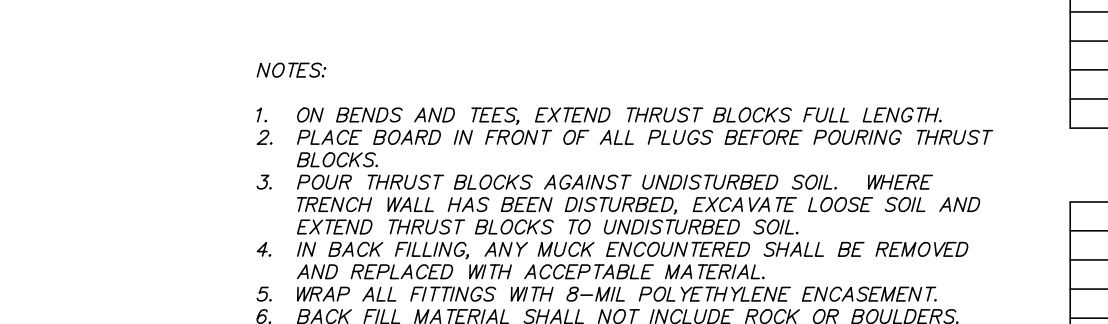
90° BEND



TRACER WIRE DETAIL (REQUIRED ON ALL PRESSURIZED PVC LINES) N.T.S.



TYPICAL WATER SERVICE ASSEMBLY N.T.S.

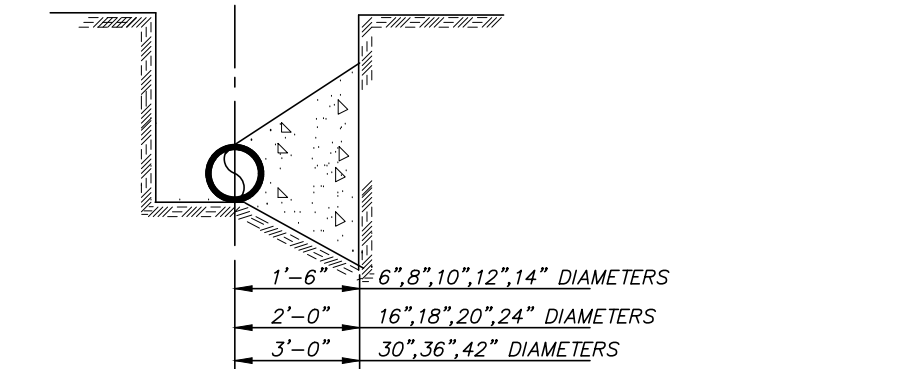


THRUST BLOCK

TYPICAL THRUST BLOCK

- WATER LINE OBSTRUCTION NOTES:
- CONTRACTOR TO FOLLOW CLEARANCE REQUIREMENTS IN THE SPECIFICATIONS FOR WATER, STORM DRAIN AND SANITARY SEWER LINE CROSSINGS. WHEN THE WATER LINE MUST CROSS UNDER THE OBSTRUCTION THE PIPE SHALL BE DUCTILE IRON, CASED WITH STEEL CASING, OR FULLY ENCASED WITH CONCRETE.
  - WATER LINE TO PASS OVER OBSTRUCTION IF CLEARANCE REQUIREMENTS CAN BE MET.
  - CONTRACTOR TO FOLLOW REQUIREMENTS IN THE SPECIFICATIONS FOR THE PIPE FITTINGS REQUIRED TO DODGE OBSTRUCTION.

WATER LINE OBSTRUCTION NOTES



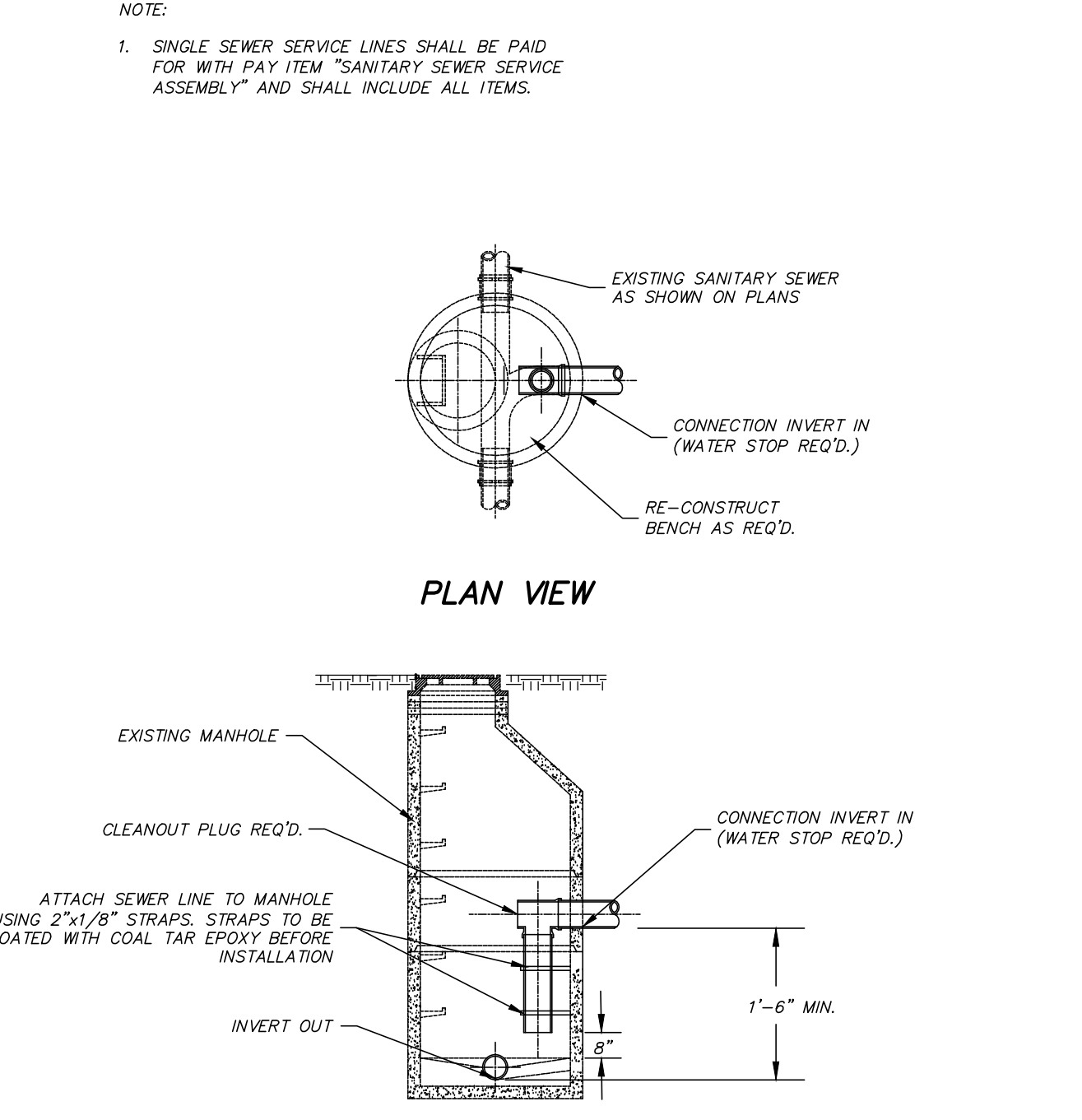
TYPICAL CROSS SECTION

VERTICAL BENDS

DIAMETER	1'-6"	2'-0"	3'-0"
6", 8", 10", 12", 14" DIAMETERS	8.0(2.2)	14.0(5.2)	22.0(8.2)
16", 18", 20", 24" DIAMETERS	27.0(1.0)	46.0(2.0)	80.0(3.0)
30", 36", 42" DIAMETERS	68.0(2.5)	114.0(5.1)	180.0(7.0)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)

VOLUME OF BLOCKS INCLUDING SOIL LOAD CU. FT. (CU. YDS.)



SECTIONAL ELEVATION DROP CONNECTION N.T.S.



NOTE:  
ALL INLET AND STORM MANHOLE CASTING LIDS SHALL STATE  
"NO DUMPING, DRAINS TO RIVER".

GENERAL DATA												
SS-2 INLET SIZE	WALL THICKNESS WT	INSIDE DIMENSION		OUTSIDE DIMENSION		BASE HEIGHT B	RISER HEIGHT R	WEIGHTS				
		IW	IL	OW	OL			BOTTOM LB	BASE/RISER LB/FT	INLET LB	EXTENSION LB	EXTENSION TOP LB
3 X 5	5	36	60	46	70	24-54	18-48	1125	1114	1880	1865	1070

3' x 5' WALL REINFORCEMENT (SQ. IN. PER LIN. FT.)												
DEPTH OF INSTALLATION	BASE		TOP RISER		INTERIOR RISER #1		INTERIOR RISER #2		INTERIOR RISER #3		INTERIOR RISER #4	
	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT	AREA	LB/FT
0-8	0.30	36.969	0.24	29.575	-	-	-	-	-	-	-	-
0-12	0.60	78.867	0.24	29.575	0.60	78.867	-	-	-	-	-	-
0-16	0.88	110.005	0.24	29.575	0.60	78.867	0.74	95.338	-	-	-	-
0-20	1.18	139.340	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	-	-
0-24	1.44	176.008	0.24	29.575	0.60	78.867	0.74	95.338	1.06	124.672	1.20	146.673

CONCRETE QUANTITIES				
SS-2 INLET SIZE	BOTTOM C.Y.	RISER C.Y./FT	TOP C.Y.	EXTENSION C.Y.
3X5	0.279	0.275	0.464	0.724

BOTTOM/TOP/EXTENSION REINFORCEMENT				
SS-2 INLET SIZE	BOTTOM REINFORCEMENT	BOTTOM LB/STEEL	TOP LB/STEEL	EXTENSION LB/STEEL
3X5	#4 @ 9" EW	38.550	116.496	38.305

NOTES: CONCRETE CUBIC YARDS PER INLET = BOTTOM + (TOTAL RISER HEIGHT (FT) x C.Y./FT) + TOP EXTENSION INCLUDES CURB INLET UNIT + TOP + EXTENSIONS - ANY HOLE OPENINGS EXTENSION BLOCKOUT OPENINGS

NOTE: \*EXTENSION INCLUDES CURB INLET UNIT PLUS TOP

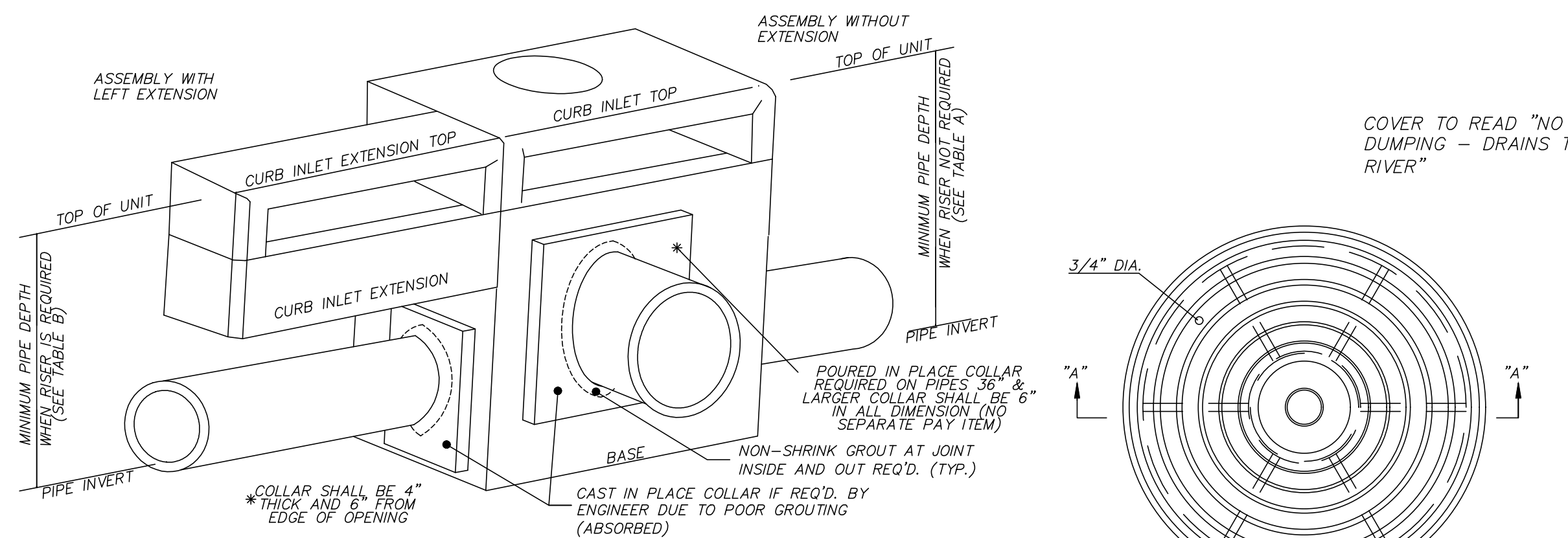
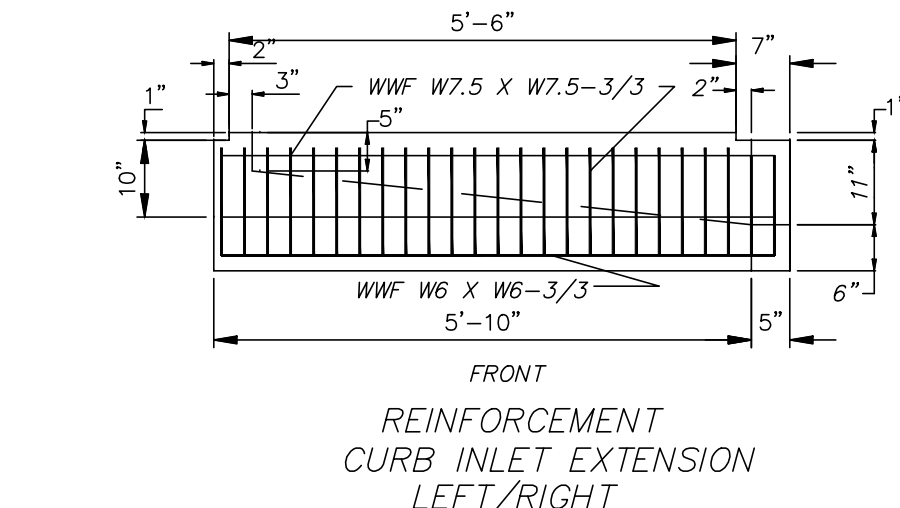
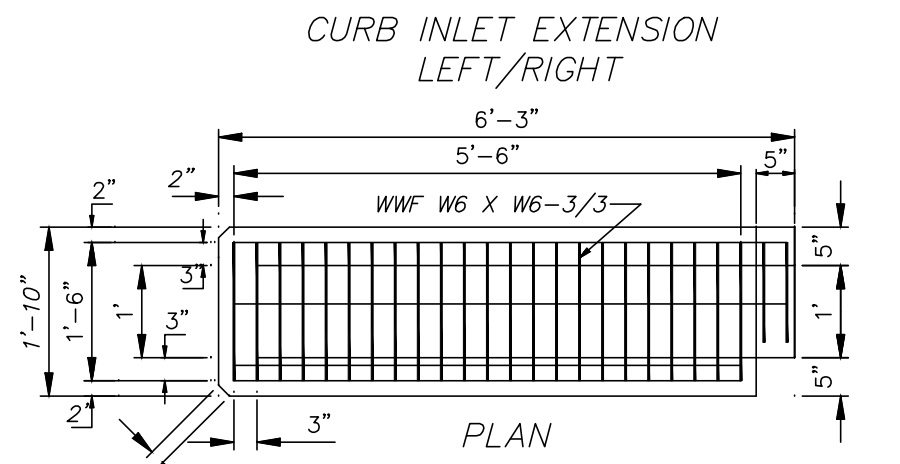
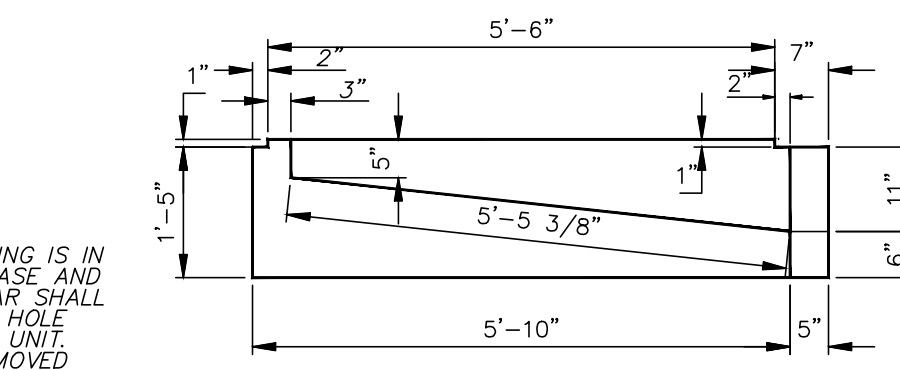
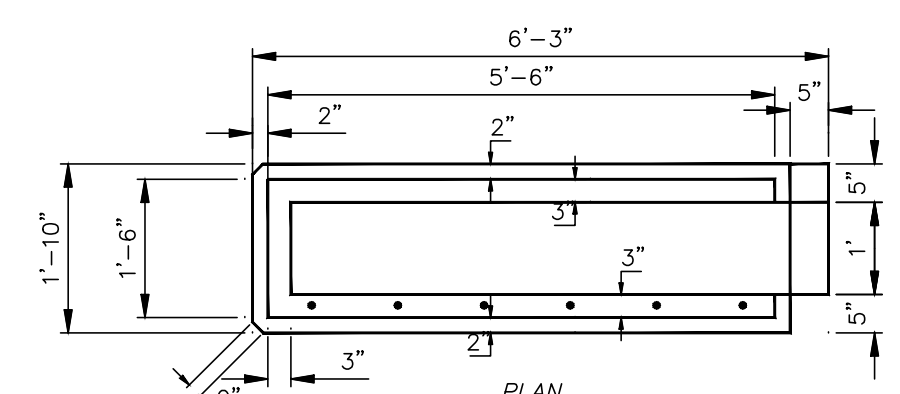
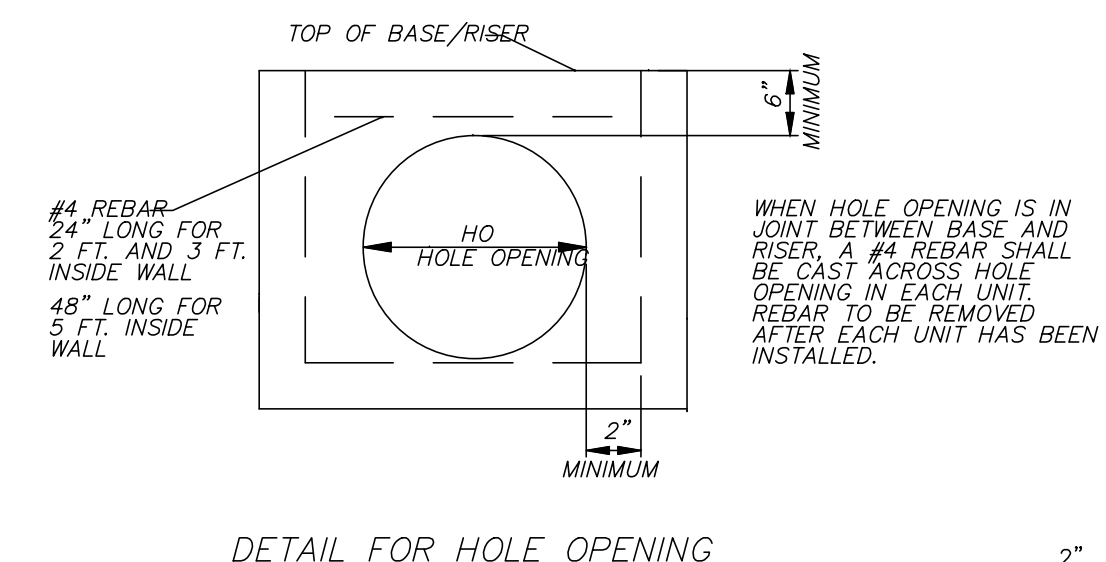
CAST-IN-PLACE COLLAR REQUIRED AT ALL PIPE CONNECTIONS. FILLING THE AREA AROUND PIPE IS TO BE INCLUDED IN THE COLLAR. REINFORCING STEEL MUST EXTEND OUT OF THE BASE/RISER WHEN CAST-IN-PLACE TOP IS USED.

MINIMUM PIPE DEPTH WITHOUT EXTENSION TOP OF CURB UNIT TO PIPE INVERT				
TABLE A				
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES	
12	36	-	-	-
15	39.5	18x11	32.5	-
18	42	22x13	34.5	-
21	44.5	-	-	-
24	49	29x18	39.5	-
27	53.5	-	-	-
30	55	36x23	44.5	-

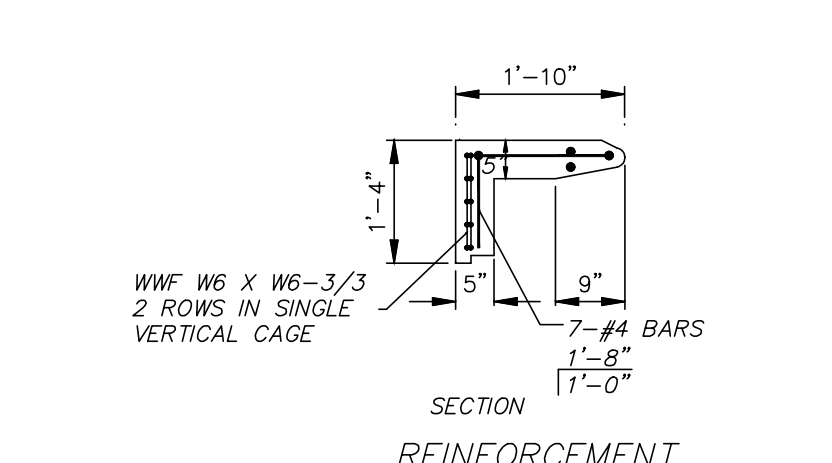
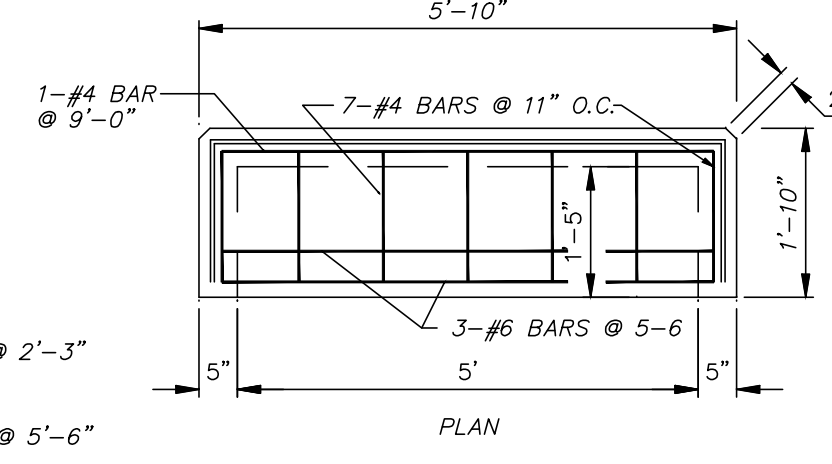
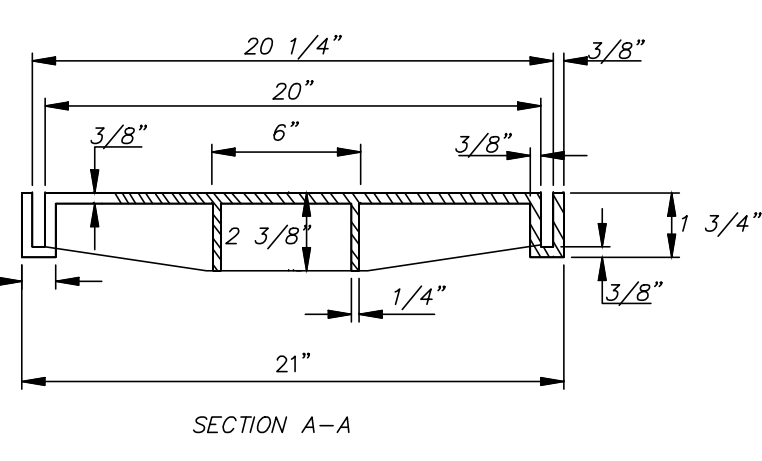
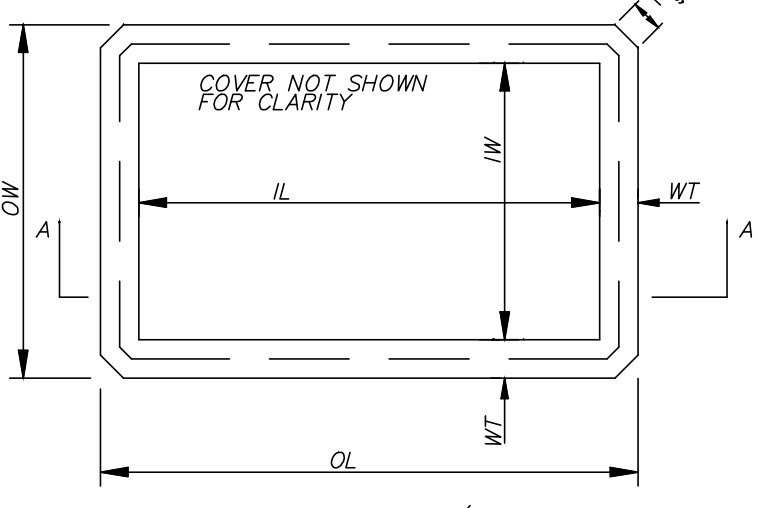
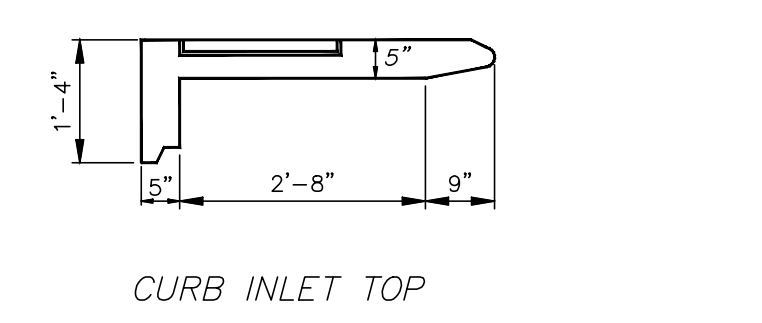
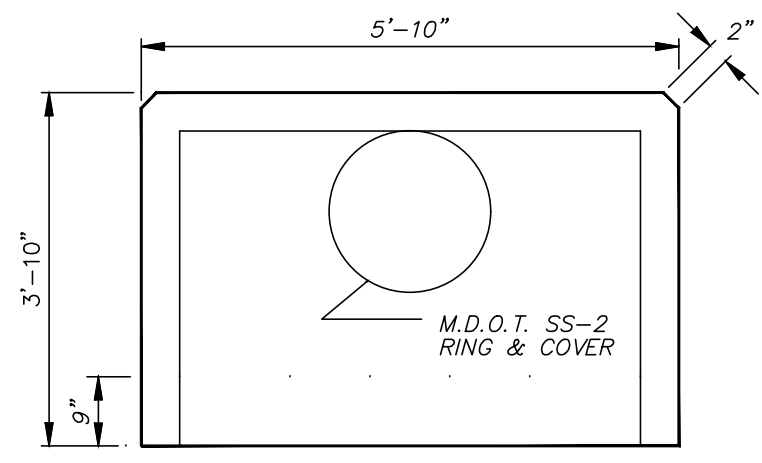
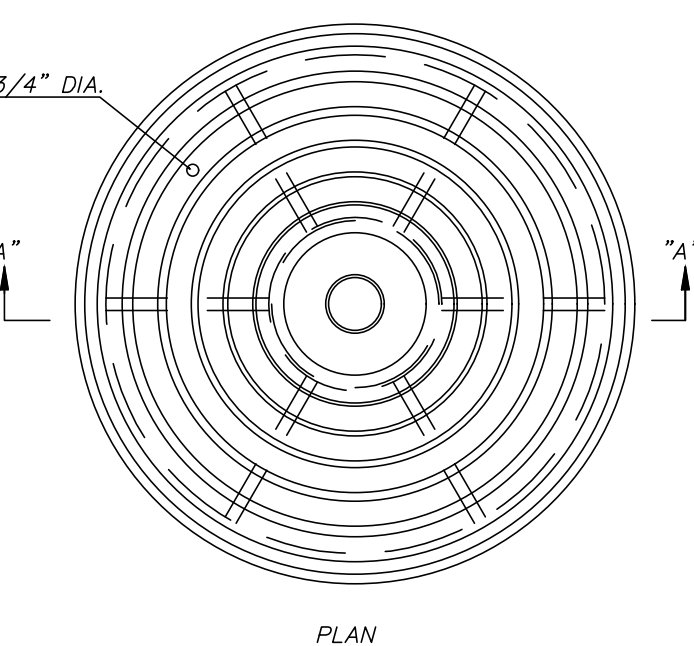
MINIMUM PIPE DEPTH WITH EXTENSION TOP OF CURB UNIT TO PIPE INVERT				
TABLE B				
ROUND RCP SIZE	DEPTH INCHES	ARCH RCP SIZE	DEPTH INCHES	
12	55	-	-	-
15	58	18x11	55	-
18	61	22x13	58	-
21	64	-	-	-
24	67	-	-	-
27	72	-	-	-
30	-	-	-	-

NOTE: BLANK SPACES IN TABLES INDICATE PIPE WILL NOT FIT INTO SIDE OF BOX OR PIPE SIZE IS NOT AVAILABLE.

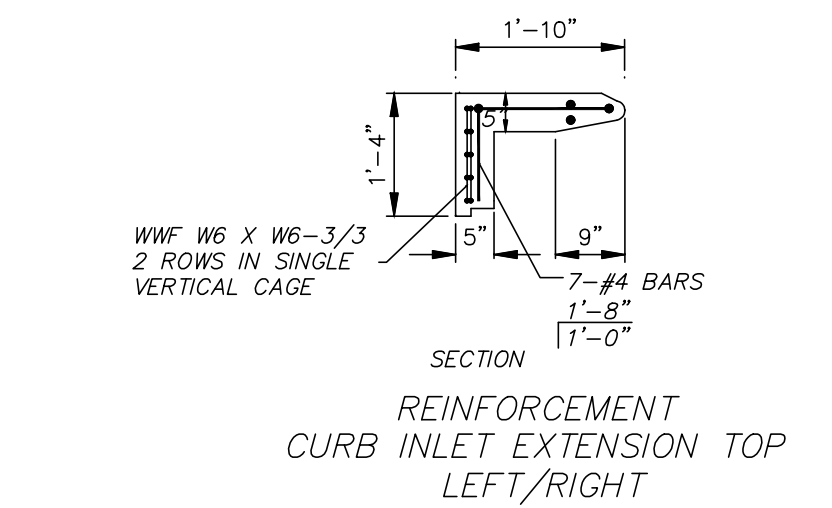
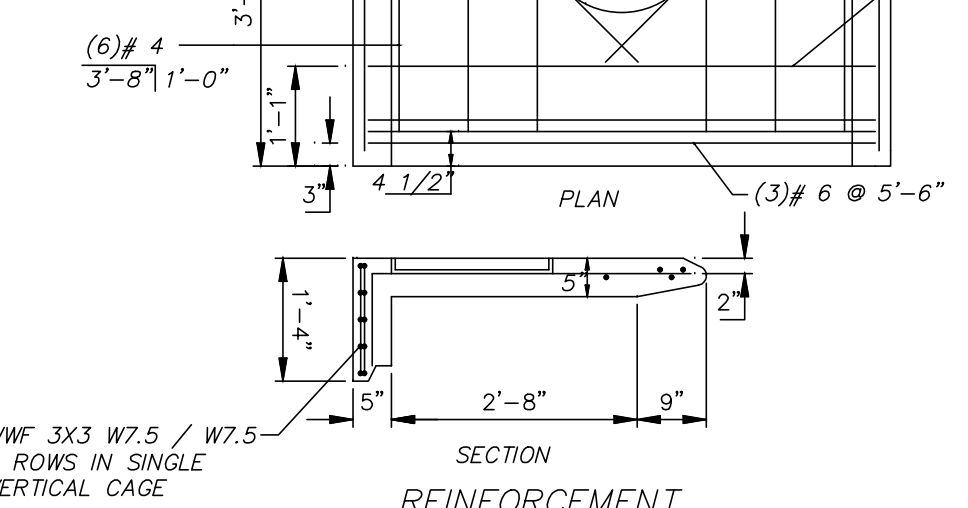
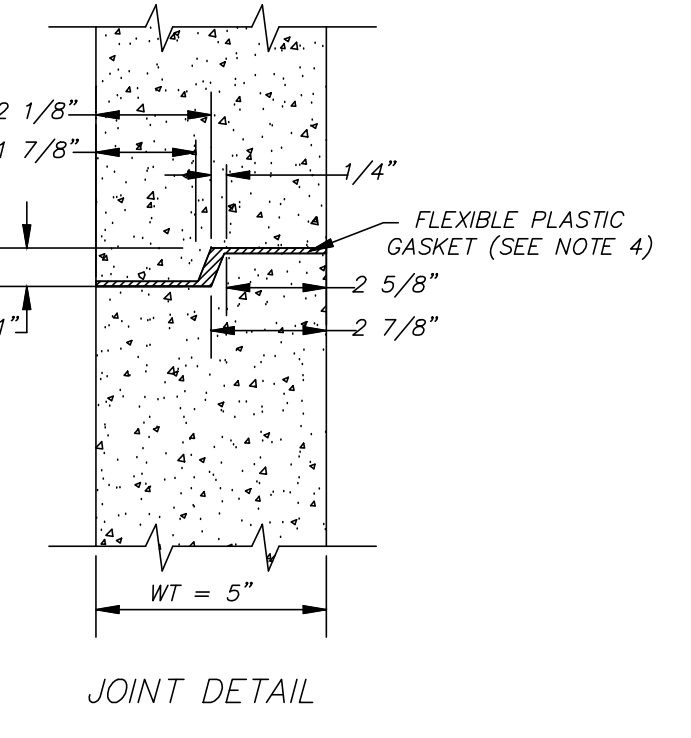
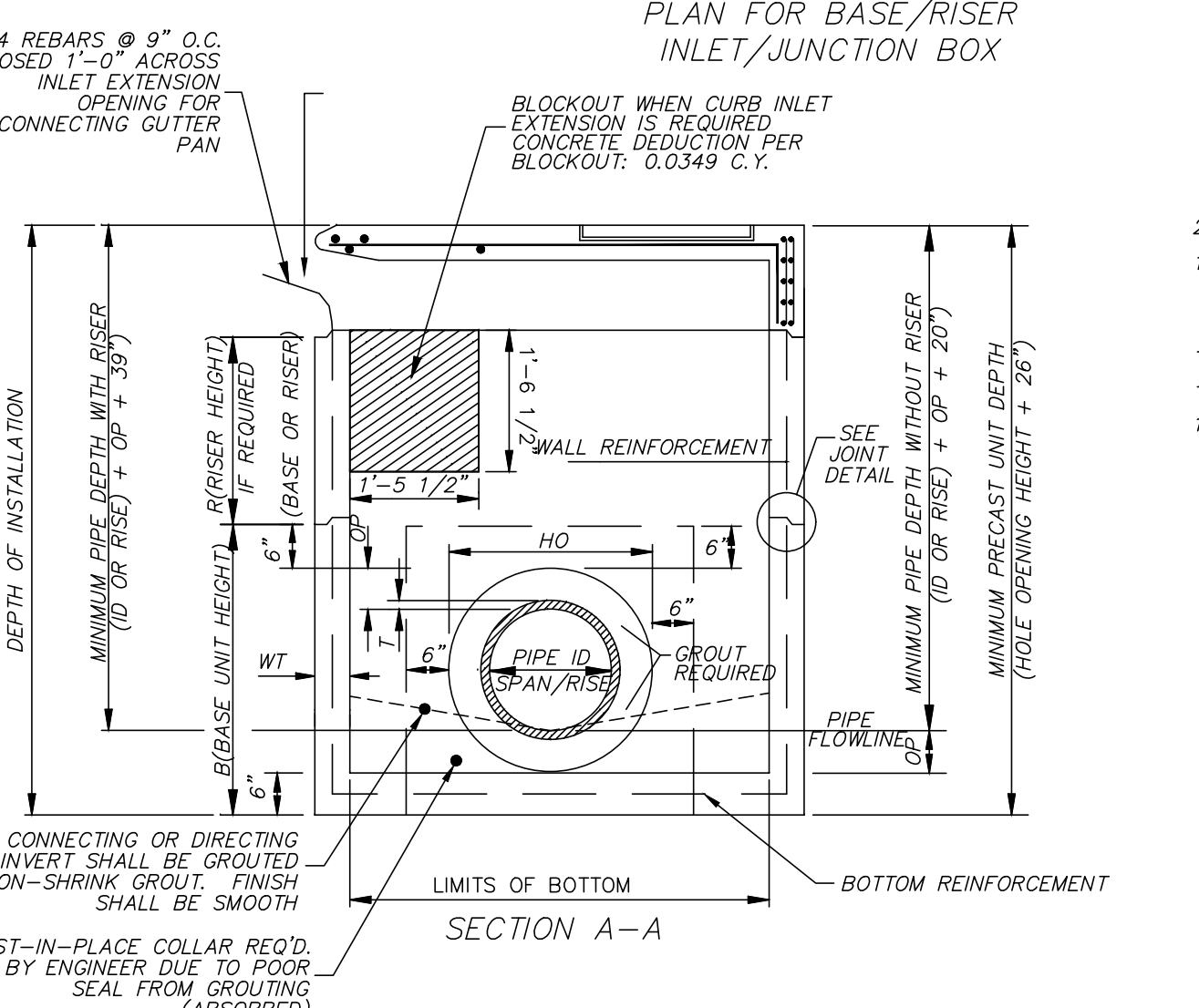
HOLE OPENING											
ROUND RCP SIZE	OPENING			ARCH RCP SIZE	OPENING			CONCRETE DEDUCTION PER OPENING (C.Y.)			
	INCHES	CONCRETE DEDUCTION PER OPENING (C.Y.)			INCHES	CONCRETE DEDUCTION PER OPENING (C.Y.)					
12	2	20	4	0.017	-	-	-	-			
15	2.25	24	4.5	0.032	18x11	2.25	25.5x18.5	1.5	0.015		
18	2.5	26	4	0.045	22x13	2.5	30x21	1.5	0.045		
21	2.75	28	3.5	0.060	-	-	-	-	-		
24	3	32	4	0.076	29x18	3	38x27	1.5	0.073		
27	3.25	40	6.5	0.095	-	-	-	-	-		
30	3.5	40	5	0.116	36x23	3.5	46x33	1.5	0.108		



COVER TO READ "NO DUMPING - DRAINS TO RIVER"

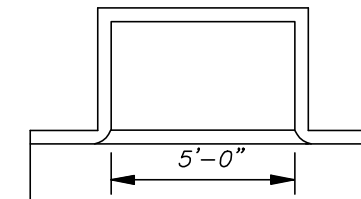
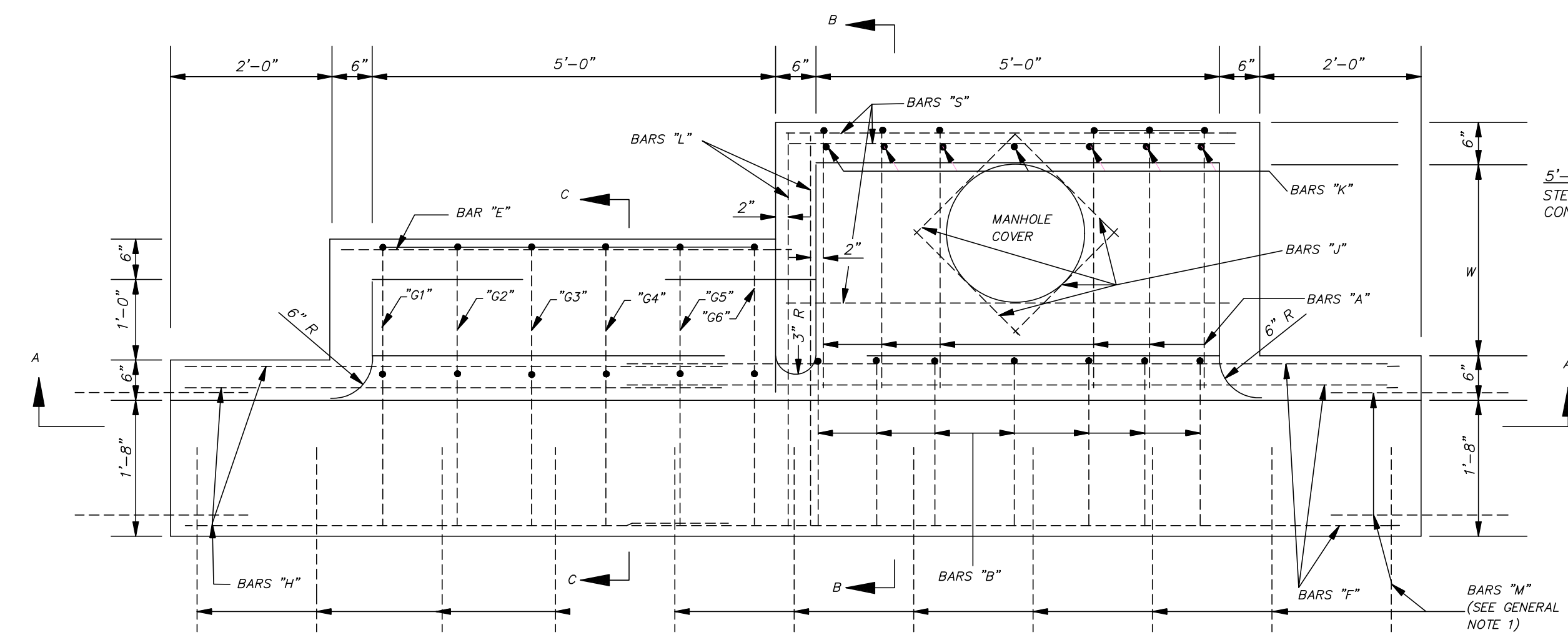


- GENERAL NOTES:
1. CONCRETE SHALL HAVE COMPRESSIVE STRENGTH OF 4000 PSI MINIMUM AT 28 DAYS.
  2. REINFORCING FOR BOTTOM AND WALLS MAY BE WELDED WIRE FABRIC, ASTM A-185, AND OF THE AREA AS SHOWN IN TABLE.
  3. REINFORCING FOR COVER SHALL BE ASTM A615/A AND OF THE SIZE AS SHOWN IN TABLE AND DRAWINGS.
  4. JOINT TO BE SEALED WITH FLEXIBLE PLASTIC GASKET FOR JOINT CONDUIT, AASHTO SPECIFICATION M-198 OR MDOT SPECIFICATION.
  5. 1/2" LIFTING HOLES TO BE LOCATED ON EACH SIDE OF BOX SECTIONS FOR HANDLING AND SHALL BE SEALED WATER TIGHT WITH NON-SHRINK GROUT INSIDE AND OUT.
  6. GROUT FOR JOINING PIPE TO PRECAST UNITS WILL BE A COMMERCIAL, NON-SHRINK, MASONRY GROUT MEETING MDOT SPECIFICATIONS. ALL VOIDS SHALL BE FILLED WITH PIECES OF BLOCKS OR BRICKS PRIOR TO GROUTING. GROUTING REQUIRED INSIDE AND OUT. PIPE CONNECTIONS TO INLETS SHALL NOT BE BACKFILLED WITHOUT ENGINEER'S INSPECTION AND APPROVAL.
  7. WHEN INTERIOR RISER UNITS ARE REQUIRED, UNITS SHALL BE MARKED TO IDENTIFY EACH UNIT.
  8. INLET TOPS MAY BE PRECAST AND PRECAST STRUCTURES SHALL HAVE REBAR EXTENDED AND EXPOSED FOR CONNECTION WITH POURED IN PLACE TOPS.
  9. INLETS WILL BE MEASURED FOR PAYMENT ON A PER EACH BASIS AS EITHER A SINGLE, SINGLE W/ EXTENSION, SINGLE W/ DOUBLE EXTENSION OR A DOUBLE INLET. ALL ASPECTS REQUIRED TO COMPLETELY INSTALL EACH INLET STRUCTURE SHALL BE INCLUDED EACH PAY ITEM.
  10. IN THE CONSTRUCTION PLANS, "DBL" REFERS TO A SINGLE INLET W/ EXTENSION AND "IPL" REFERS TO A SINGLE INLET W/ DOUBLE EXTENSION.
  11. CURB INLET TOP & CURB INLET EXTENSION(S) TOP SHALL BE PLACED AT THE SAME LONGITUDINAL GRADE AS THE ADJACENT CURB (EACH WAY).

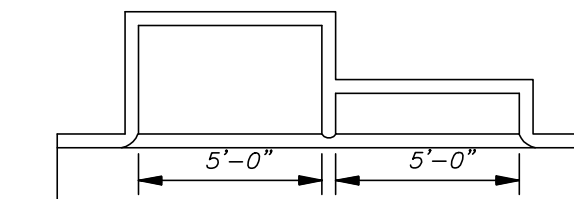




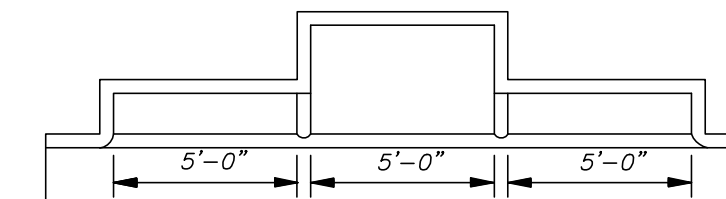
NOTE:  
ALL INLET AND STORM MANHOLE CASTING LIDS SHALL STATE  
"NO DUMPING, DRAINS TO RIVER."



5'-0" INLET  
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 121  
CONC. = (WY + 5.5W + 6Y + 14.611)/27



10'-0" INLET  
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 231  
CONC. = (WY + 5.5W + 6Y + 38.641)/27



15'-0" INLET  
STEEL = 8.68W + 9.35Y + 3.79W' + 7.57H' + 341  
CONC. = (WY + 5.5W + 6Y + 62.671)/27

PLAN OF INLET AND EXTENSIONS

ADD. CONCRETE PER FOOT OF H	ADD. CONCRETE PER FOOT OF W
W	H
2'-6"	0.315
3'-0"	0.333
3'-6"	0.352
4'-0"	0.371
4'-6"	0.389
5'-0"	0.408
5'-6"	0.426
6'-0"	0.445
6'-6"	0.463
7'-0"	0.481
8'-6"	0.500

BAR	SIZE	LENGTH	SPACING	NUMBER	TWEIGHT
"E"	#4	5'-8"	AS SHOWN	3	11
"G"	#4	SEE SCHEDULE	0'-11"	6	34
"H"	#6	6'-9"	AS SHOWN	5	51
"L"	#6	4'-9"	AS SHOWN	2	14

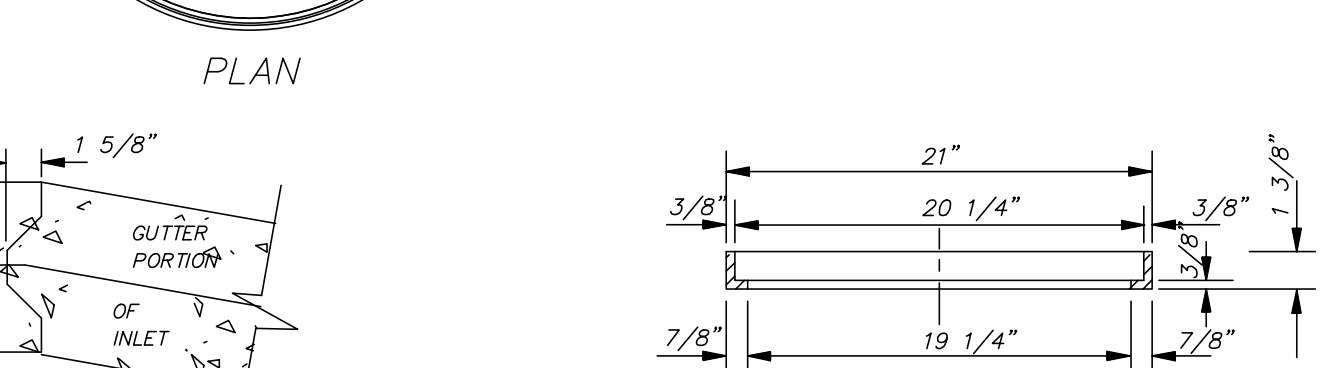
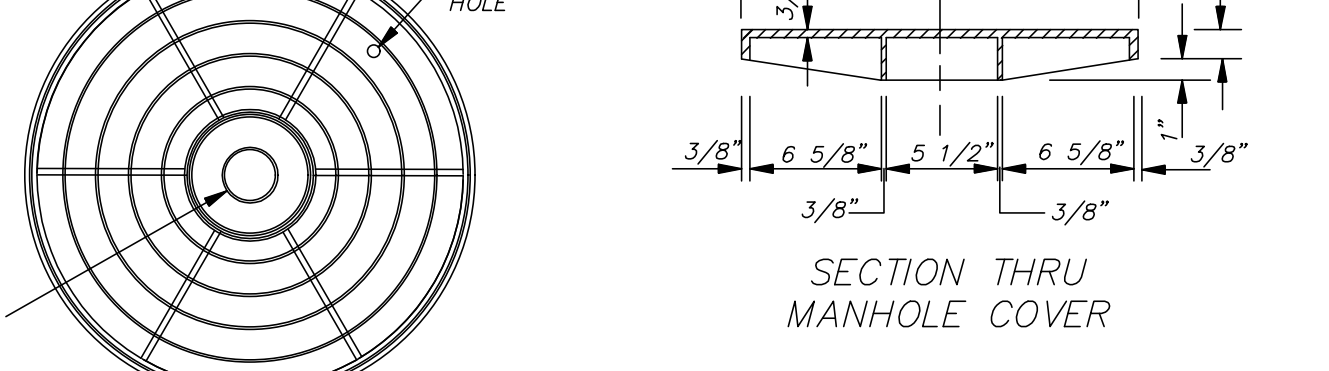
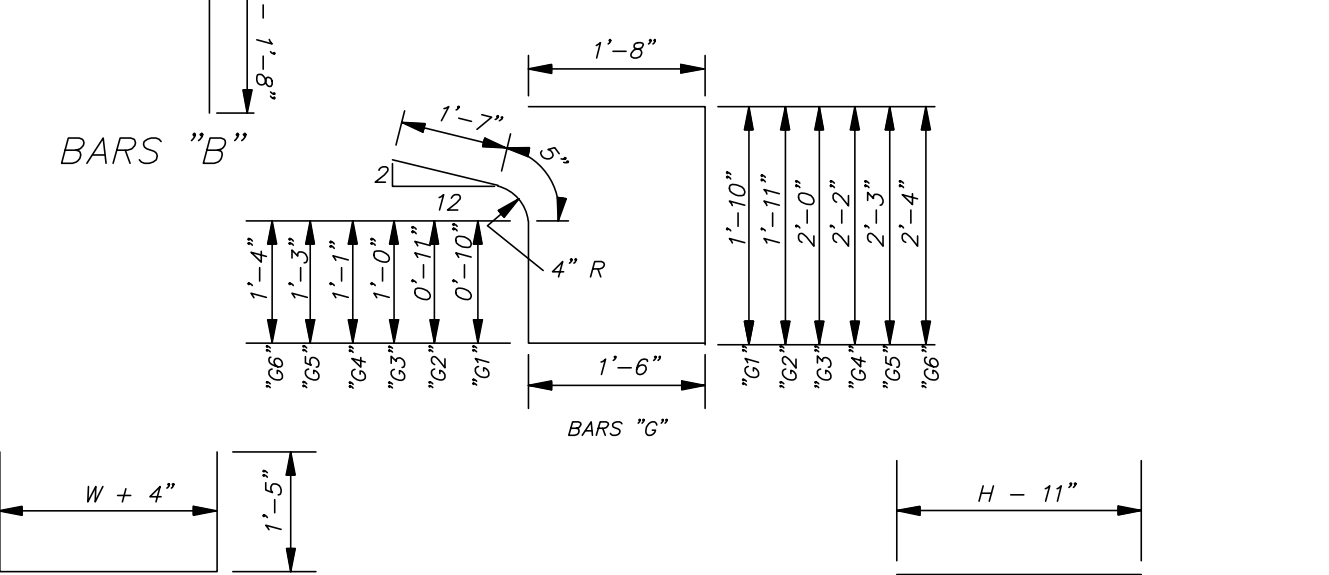
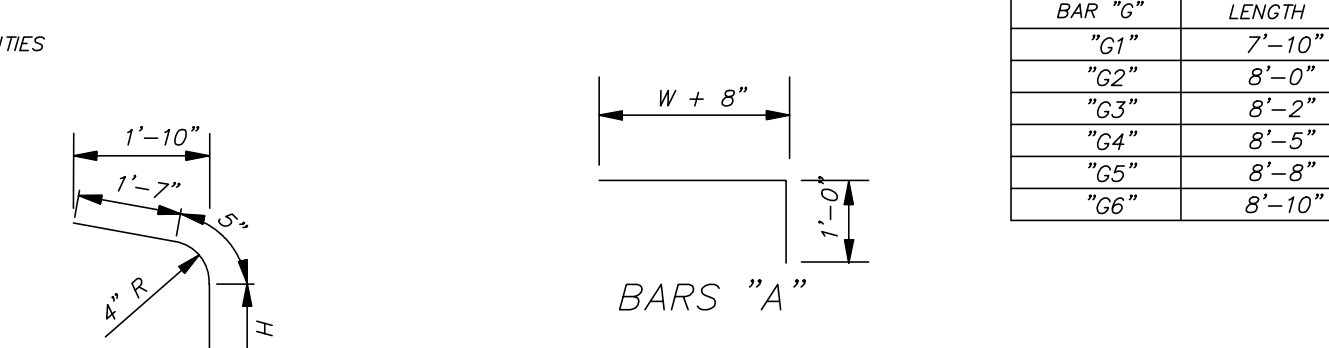
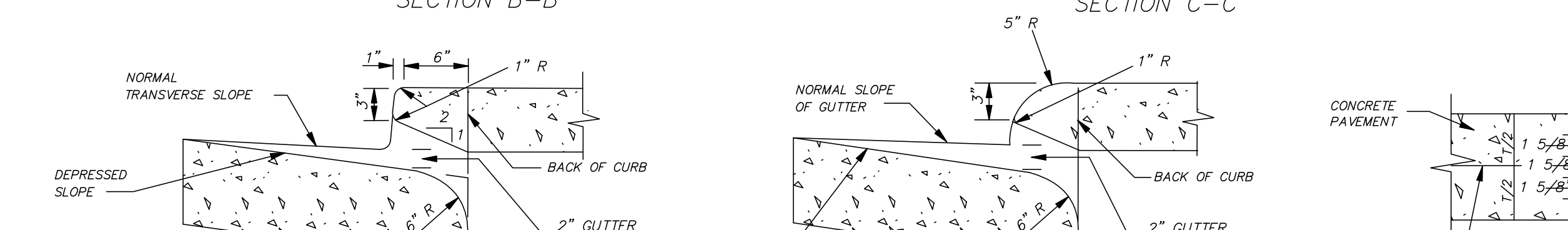
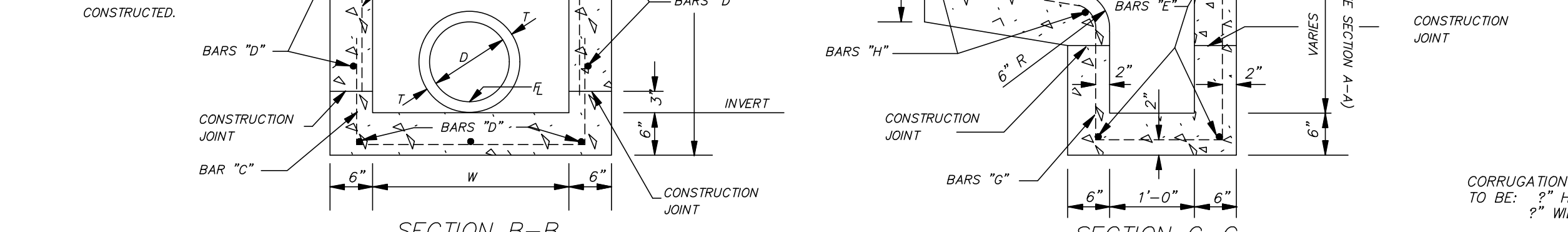
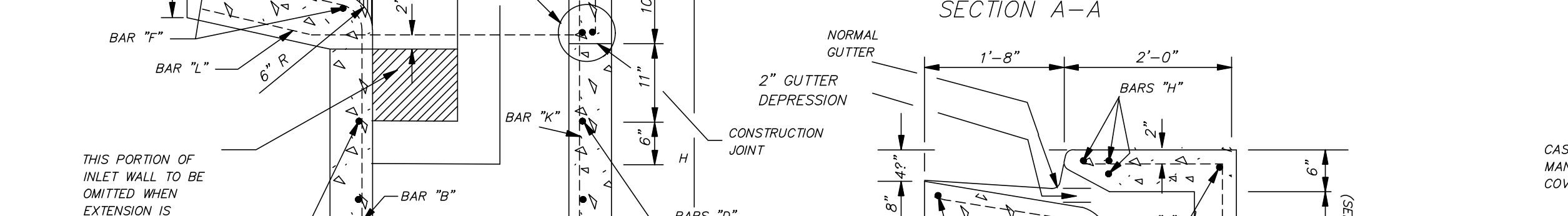
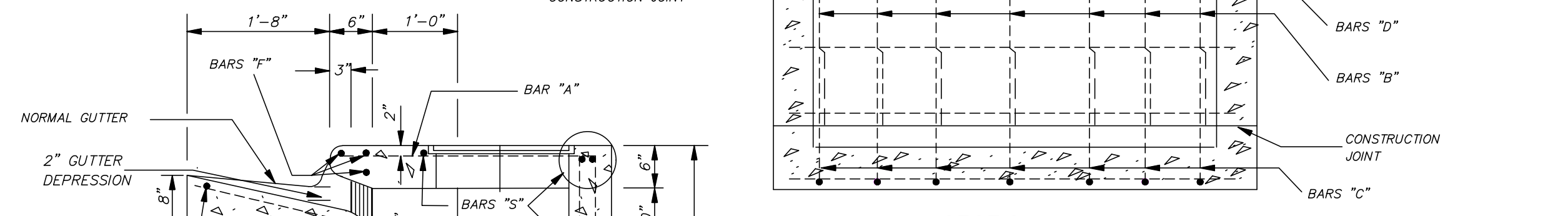
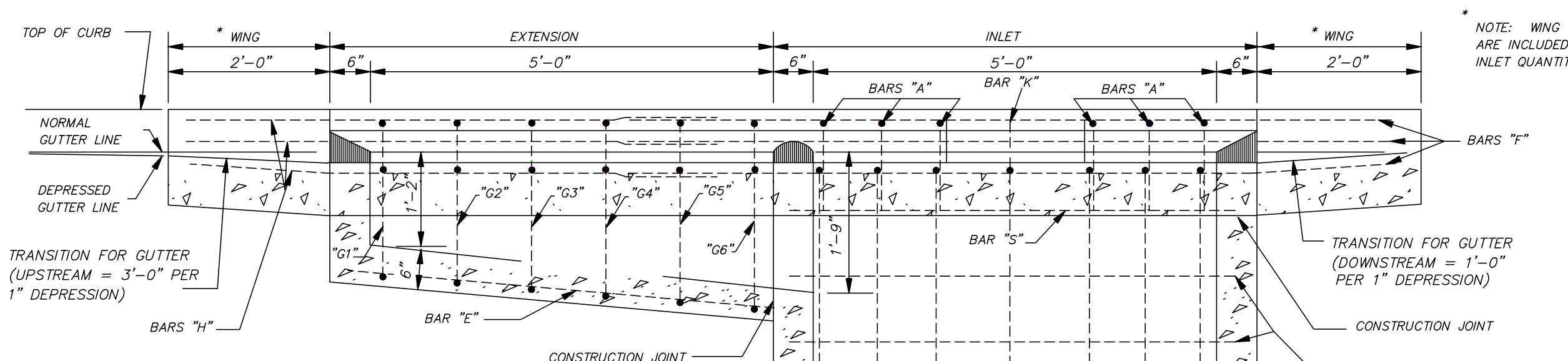
TOTAL STEEL FOR ONE EXTENSION = 110 lbs  
TOTAL CONCRETE FOR ONE EXTENSION = 0.89 yd  
NOTE: WHERE EXTENSION IS USED WITH CONCRETE PAVEMENT, ADD 27 lbs OF STEEL FOR BARS "M".

W=2'-6"		BILL OF REINFORCING STEEL FOR 1-5'-0" INLET												TOTAL	TOTAL					
H	BAR "A"	BAR "C"	BAR "S"	BAR "D"	BAR "F"	BAR "J"	BAR "B"	BAR "K"	+TOTAL	TOTAL							STEEL	CONC.		
	L=4'-2"	L=6'-2"	L=5'-8"	L=5'-8"	L=9'-8"	L=2'-3"	L=2'-3"	#4 @ 9"												
3'-6"	6	17	7	27	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	190	1.99
4'-0"	6	17	7	27	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	202	2.15
4'-6"	6	17	7	27	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	207	2.31
5'-0"	6	17	7	27	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	219	2.47
5'-6"	6	17	7	27	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	224	2.62
6'-0"	6	17	7	27	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	238	2.78
6'-6"	6	17	7	27	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	240	2.94
7'-0"	6	17	7	27	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	253	3.10
7'-6"	6	17	7	27	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	257	3.25

W=3'-0"		BILL OF REINFORCING STEEL FOR 1-5'-0" INLET												TOTAL	TOTAL					
H	BAR "A"	BAR "C"	BAR "S"	BAR "D"	BAR "F"	BAR "J"	BAR "B"	BAR "K"	+TOTAL	TOTAL							STEEL	CONC.		
	L=4'-8"	L=6'-2"	L=5'-8"	L=5'-8"	L=9'-8"	L=2'-3"	L=2'-3"	#4 @ 9"												
3'-6"	6	19	7	29	5	19	5	19	5	73	4	6	3'-10"	7	18	2'-7"	7	12	194	2.15
4'-0"	6	19	7	29	5	19	7	26	5	73	4	6	4'-4"	7	20	3'-1"	7	14	206	2.32
4'-6"	6	19	7	29	5	19	7	26	5	73	4	6	4'-10"	7	23	3'-7"	7	17	211	2.49
5'-0"	6	19	7	29	5	19	9	34	5	73	4	6	5'-4"	7	25	4'-1"	7	19	223	2.65
5'-6"	6	19	7	29	5	19	9	34	5	73	4	6	5'-10"	7	27	4'-7"	7	21	228	2.82
6'-0"	6	19	7	29	5	19	11	42	5	73	4	6	6'-4"	7	30	5'-1"	7	24	240	2.99
6'-6"	6	19	7	29	5	19	11	42	5	73	4	6	6'-10"	7	32	5'-7"	7	26	245	3.15
7'-0"	6	19	7	29	5	19	13	49	5	73	4	6	7'-4"	7	34	6'-1"	7	28	257	3.32
7'-6"	6	19	7	29	5	19	13	49	5	73	4	6	7'-10"	7	37	6'-7"	7	31	262	3.49

W=3'-6"		BILL OF REINFORCING STEEL FOR 1-5'-0" INLET												TOTAL	TOTAL					
H	BAR "A"	BAR "C"	BAR "S"	BAR "D"	BAR "F"	BAR "J"	BAR "B"	BAR "K"	+TOTAL	TOTAL							STEEL	CONC.		
	L=5'-2"	L=6'-8"	L=5'-8"	L=5'-8"	L=9'-8"	L=2'-3"	L=2'-3"	#4 @ 9"												
3'-6"	6	21	7	31	5	19	6	23	5	73	4	6	3'-10"	7	18	2'-7"	7	12	202	2.31
4'-0"	6	21	7	31	5	19	8	30	5	73	4	6	4'-4"	7	20	3'-1"	7	14	214	2.49
4'-6"	6	21	7	31	5	19	8	30	5	73	4	6	4'-10"	7	23	3'-7"	7	17	219	2.66
5'-0"	6	21	7	31	5	19	10	38	5	73	4	6	5'-4"	7	25	4'-1"	7	19	231	2.84
5'-6"	6	21	7	31	5	19	10	38	5	73	4	6	5'-10"	7	27	4'-7"	7	21	236	3.01
6'-0"	6	21	7	31	5	19	12	45	5	73	4	6	6'-4"	7	30	5'-1"	7	24	248	3.19
6'-6"	6	21	7	31	5	19	12	45	5	73	4	6	6'-10"	7	32	5'-7"	7	26	253	3.37
7'-0"	6	21	7	31	5	19	14	53	5	73	4	6	7'-4"	7	34	6'-1"	7	28	265	3.54
7'-6"	6	21	7	31	5	19	14	53	5	73	4	6	7'-10"	7	37	6'-7"	7	31	270	3.72

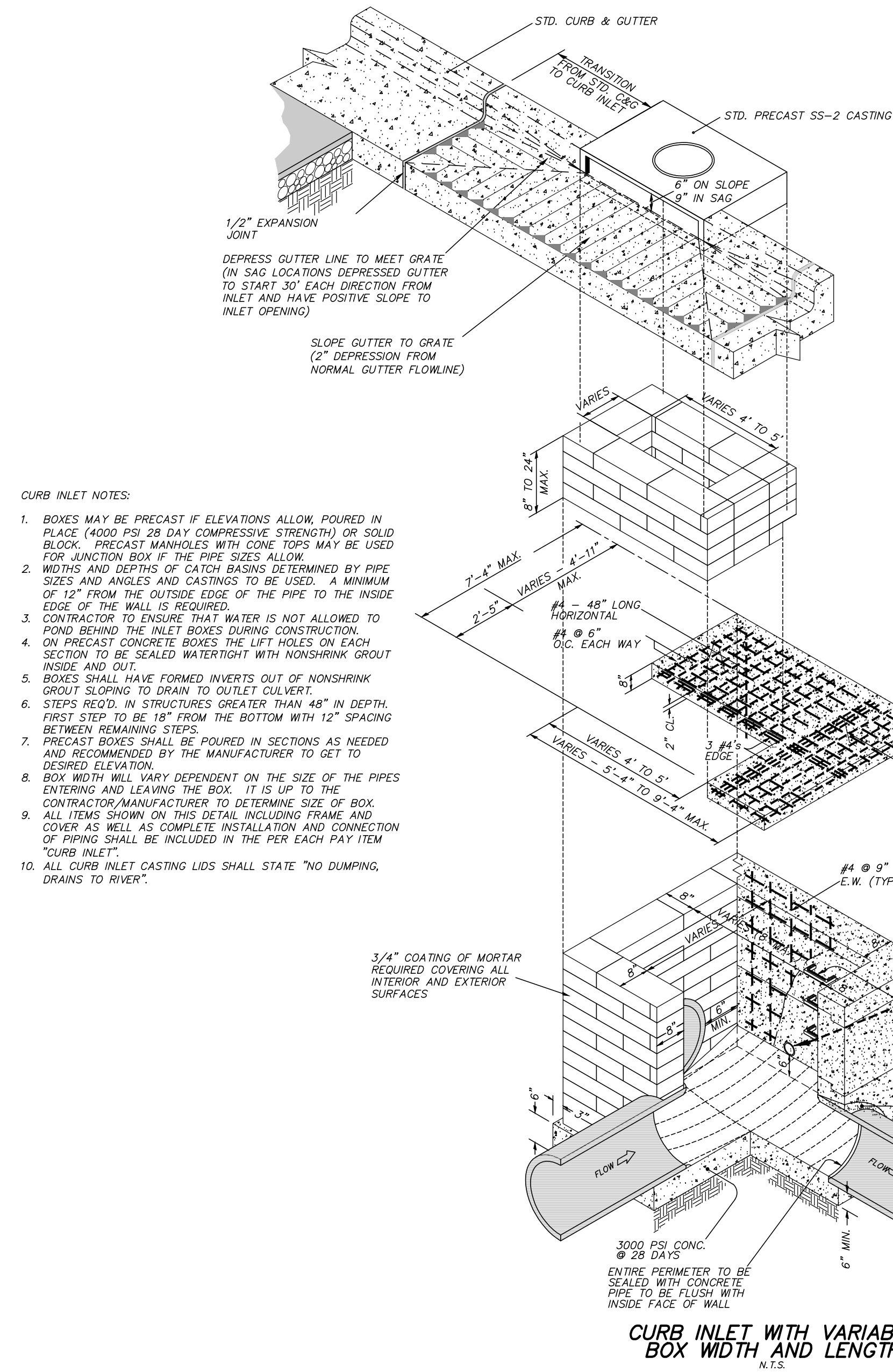
NOTE: WHERE INLET IS USED WITH CONCRETE PAVEMENT, ADD 73 lbs OF STEEL FOR BARS "M".



NOTE: FIELD BEND BARS "L" TO CENTER OF GUTTER SECTION

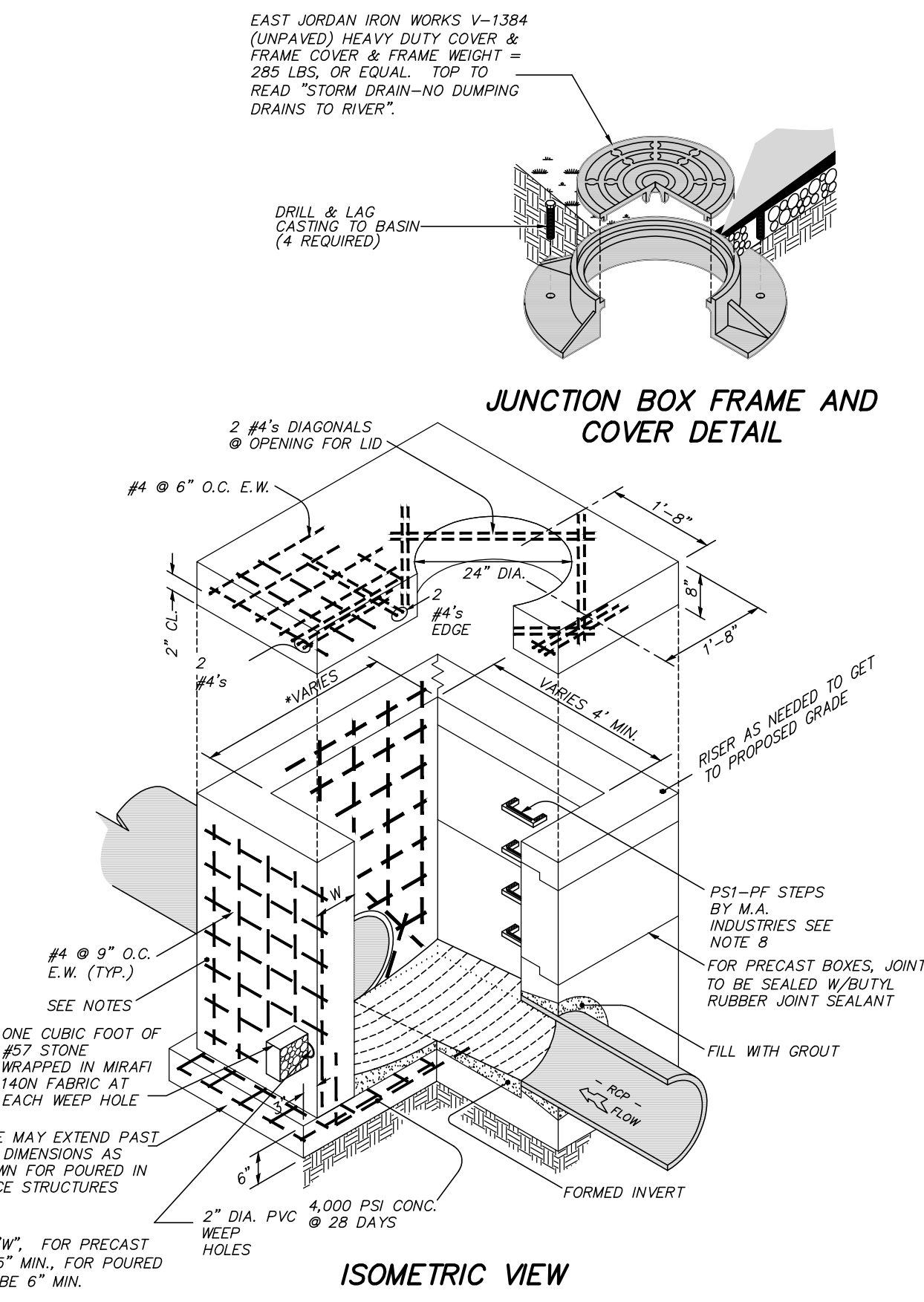
- GENERAL NOTES:
- WHERE INLET WITH EXTENSION(S) IS USED WITH CONCRETE PAVEMENT WITH INTEGRAL CURB, THE PAVEMENT IS TO BE BLOCKED OUT TO THE DIMENSIONS AS SHOWN FOR THE GUTTER PORTIONS OF THE INLET WITH EXTENSION(S). THE PORTION BLOCKED OUT SHALL BE PLACED INTEGRAL WITH THE TOP OF THE INLET OR INLET WITH EXTENSION(S). #8 DEFORMED BARS 30" LONG SHALL BE PLACED ON 18" CENTERS AT THE CENTER OF THE PAVEMENT. THESE BARS SHALL EXTEND INTO THE GUTTER PORTION OF THE INLET OR INLET WITH EXTENSION(S) 15". THE CONSTRUCTION JOINT BETWEEN THE CONCRETE PAVEMENT AND THE INLET OR INLET WITH EXTENSION(S) SHALL BE A KEYED JOINT AS SHOWN. A SMOOTH CONSTRUCTION JOINT WILL NOT BE PERMITTED. QUANTITIES FOR BLOCKED OUT AREA OF PAVEMENT SHALL BE INCLUDED IN QUANTITIES FOR THE INLET OR INLET WITH EXTENSION(S).
  - THE STANDARD SPECIFICATIONS ADOPTED BY THE MISSISSIPPI DEPARTMENT OF TRANSPORTATION SHALL APPLY TO ALL ITEMS ON THIS SHEET.
  - THE QUANTITIES SHOWN, MINUS VOLUMETRIC DISPLACEMENT OF CONCRETE BY PIPE CULVERTS THROUGH INLET WALLS, WILL BE USED AS THE BASIS OF FINAL PAYMENT UNLESS THIS PLAN IS MODIFIED.
  - FOR CONVENIENCE, DEPTHS OF INLETS SHOWN IN ABOVE TABLE ARE INCREMENTS OF 6", BUT ANY DEPTHS OTHER THAN THESE SHOWN MAY BE USED WHEREVER DEEMED NECESSARY. QUANTITIES FOR OTHER DEPTHS, FALLING WITHIN THE LIMITS OF THE TABLE, MAY BE FOUND BY INTERPOLATION.
  - FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER. NO DEDUCTIONS ARE TO BE MADE IN STEEL QUANTITIES.
  - INLET TOPS MAY BE PRECAST OR CAST IN PLACE AND SHALL MATCH THE LONGITUDINAL SLOPE OF THE CURB. PRECAST AND POURED IN PLACE STRUCTURES SHALL HAVE REBAR EXTENDED AND EXPOSED FOR CONNECTION WITH POURED IN PLACE TOPS.
  - ALL ASPECTS REQUIRED TO COMPLETELY INSTALL EACH INLET STRUCTURE SHALL BE INCLUDED IN THE ASSOCIATED PAY ITEMS.
  - IN THE CONSTRUCTION PLANS, "DBL" REFERS TO A SINGLE INLET w/ EXTENSION AND "TPL" REFERS TO A SINGLE INLET w/ DOUBLE EXTENSION.
  - INLETS WILL BE MEASURED FOR PAYMENT ON A PER EACH BASIS AS EITHER A SINGLE, SINGLE w/ EXTENSION, SINGLE w/ DOUBLE EXTENSION OR A DOUBLE INLET.





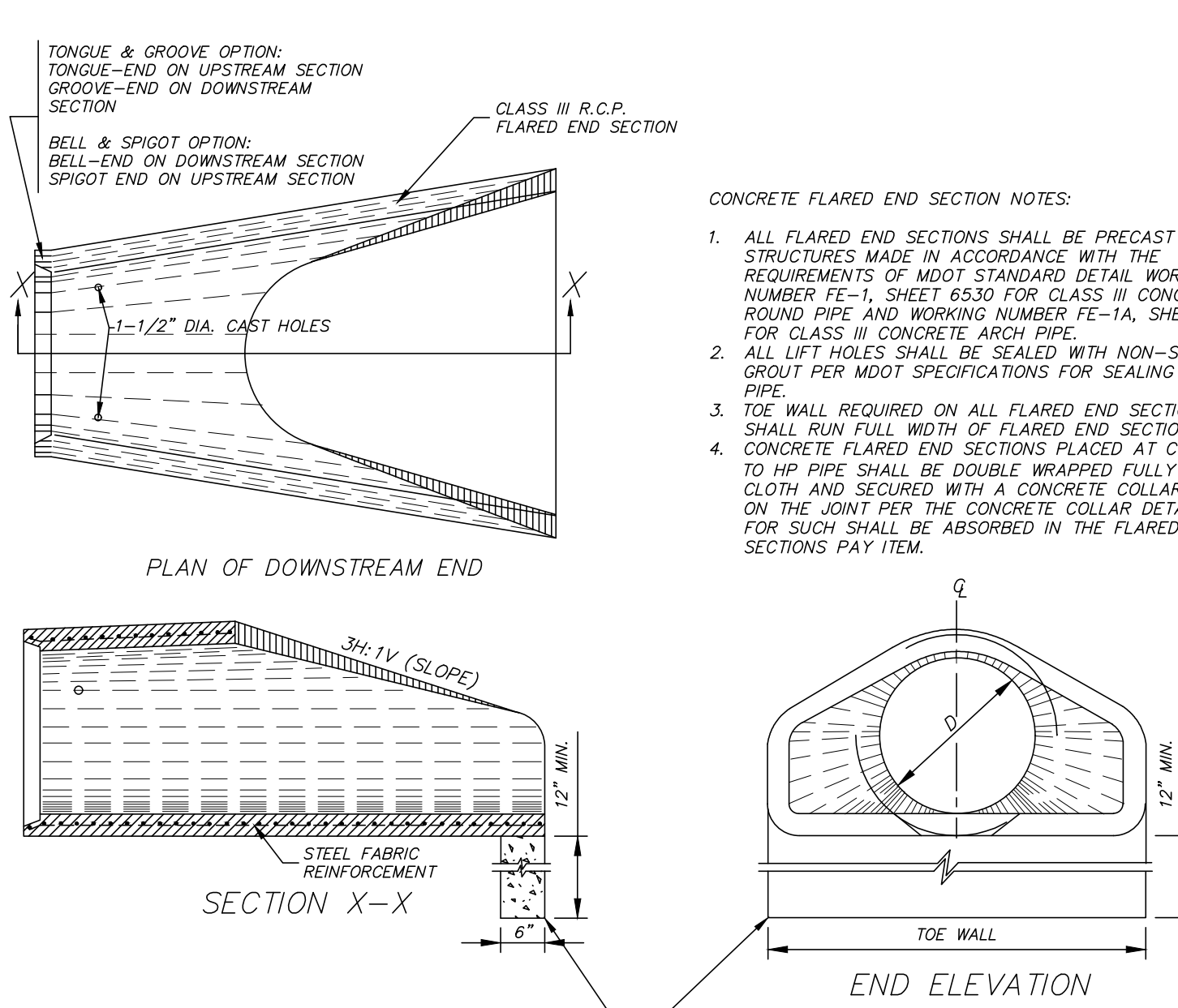
**CURB INLET NOTES:**

- BOXES MAY BE PRECAST IF ELEVATIONS ALLOW, POURED IN PLACE (4000 PSI 28 DAY COMPRESSIVE STRENGTH) OR SOLID BLOCK. PRECAST MANHOLES WITH CONE TOPS MAY BE USED FOR JUNCTION BOX IF THE PIPE SIZES ALLOW.
- WIDTHS AND DEPTHS OF CATCH BASINS DETERMINED BY PIPE SIZES AND ANGLES AND CASTINGS TO BE USED. A MINIMUM OF 12" FROM THE OUTSIDE EDGE OF THE PIPE TO THE INSIDE EDGE OF THE WALL IS REQUIRED.
- CONTRACTOR TO ENSURE THAT WATER IS NOT ALLOWED TO POND BEHIND THE INLET BOXES DURING CONSTRUCTION.
- ON PRECAST CONCRETE BOXES THE LIFT HOLES ON EACH SECTION TO BE SEALED WATER TIGHT WITH NONSHRINK GROUT INSIDE AND OUT.
- BOXES SHALL HAVE FORMED INVERTS OUT OF NONSHRINK GROUT SLOPING TO DRAIN TO OUTLET CULVERT.
- STEPS REQ'D. IN STRUCTURES GREATER THAN 48" IN DEPTH. FIRST STEP TO BE 18" FROM THE BOTTOM WITH 12" SPACING BETWEEN REMAINING STEPS.
- PRECAST BOXES SHALL BE POURED IN SECTIONS AS NEEDED AND RECOMMENDED BY THE MANUFACTURER TO GET TO DESIRED ELEVATION.
- BOX WIDTH WILL VARY DEPENDING ON THE SIZE OF THE PIPES ENTERING AND LEAVING THE BOX. IT IS UP TO THE CONTRACTOR/MANUFACTURER TO DETERMINE SIZE OF BOX.
- ALL ITEMS SHOWN ON THIS DETAIL INCLUDING FRAME AND COVER AS WELL AS COMPLETE INSTALLATION AND CONNECTION OF PIPING SHALL BE INCLUDED IN THE PER EACH PAY ITEM "CURB INLET".
- ALL CURB INLET CASTING LIDS SHALL STATE "NO DUMPING, DRAINS TO RIVER".



**JUNCTION BOX NOTES:**

- BOXES MAY BE PRECAST IF ELEVATIONS ALLOW, POURED IN PLACE (4000 PSI 28 DAY COMPRESSIVE STRENGTH) OR NYLOPLAST. PRECAST MANHOLES WITH CONE TOPS MAY BE USED FOR JUNCTION BOX IF THE PIPE SIZES ALLOW.
- WIDTHS AND DEPTHS OF CATCH BASINS DETERMINED BY PIPE SIZES AND ANGLES AND CASTINGS TO BE USED. A MINIMUM OF 6" FROM THE OUTSIDE EDGE OF THE PIPE TO THE INSIDE EDGE OF THE WALL IS REQUIRED.
- CONTRACTOR TO ENSURE THAT WATER IS NOT ALLOWED TO POND BEHIND THE INLET BOXES DURING CONSTRUCTION.
- ON PRECAST CONCRETE BOXES THE LIFT HOLES ON EACH SECTION TO BE SEALED WATER TIGHT WITH NONSHRINK GROUT INSIDE AND OUT.
- BOXES SHALL HAVE FORMED INVERTS OUT OF NONSHRINK GROUT SLOPING TO DRAIN TO OUTLET CULVERT.
- STEPS REQ'D. IN STRUCTURES GREATER THAN 48" IN DEPTH. FIRST STEP TO BE 18" FROM THE BOTTOM WITH 12" SPACING BETWEEN REMAINING STEPS.
- PRECAST BOXES SHALL BE POURED IN SECTIONS AS NEEDED AND RECOMMENDED BY THE MANUFACTURER TO GET TO DESIRED ELEVATION.
- BOX WIDTH WILL VARY DEPENDING ON THE SIZE OF THE PIPES ENTERING AND LEAVING THE BOX. IT IS UP TO THE CONTRACTOR/MANUFACTURER TO DETERMINE SIZE OF BOX.
- JUNCTION BOXES SHALL BE MANUFACTURED OR POURED SO THAT THE ROUND MH LID IS THE ONLY PART OF THE STRUCTURE THAT IS VISIBLE ONCE FINAL GRADING HAS BEEN DONE. CONTRACTOR SHALL INSTALL RISERS AS NEEDED TO ENSURE THAT A MINIMUM OF 9" OF SOIL CAN BE PLACED ON TOP OF THE BOX TO COVER IT.



**CONCRETE FLARED END SECTION NOTES:**

- ALL FLARED END SECTIONS SHALL BE PRECAST STRUCTURES MADE IN ACCORDANCE WITH THE REQUIREMENTS OF MOOT STANDARD DETAIL WORKING NUMBER FE-1, SHEET 65.30 FOR CLASS III CONCRETE ROUND PIPE AND WORKING NUMBER FE-1A, SHEET 65.31 FOR CLASS III CONCRETE ARON PIPE.
- ALL LIFT HOLES SHALL BE SEALED WITH NON-SHRINK GROUT PER MOOT SPECIFICATIONS FOR SEALING CONCRETE PIPE.
- TOE WALL REQUIRED ON ALL FLARED END SECTIONS AND SHALL RUN FULL WIDTH OF FLARED END SECTION.
- CONCRETE FLARED END SECTIONS PLACED AT CONNECTION TO HP PIPE SHALL BE DOUBLE WRAPPED FULLY W/ FILTER CLOTH AND SECURED WITH A CONCRETE COLLAR CENTERED ON THE JOINT PER THE CONCRETE COLLAR DETAIL. COST FOR SUCH SHALL BE ABSORBED IN THE FLARED END SECTIONS PAY ITEM.

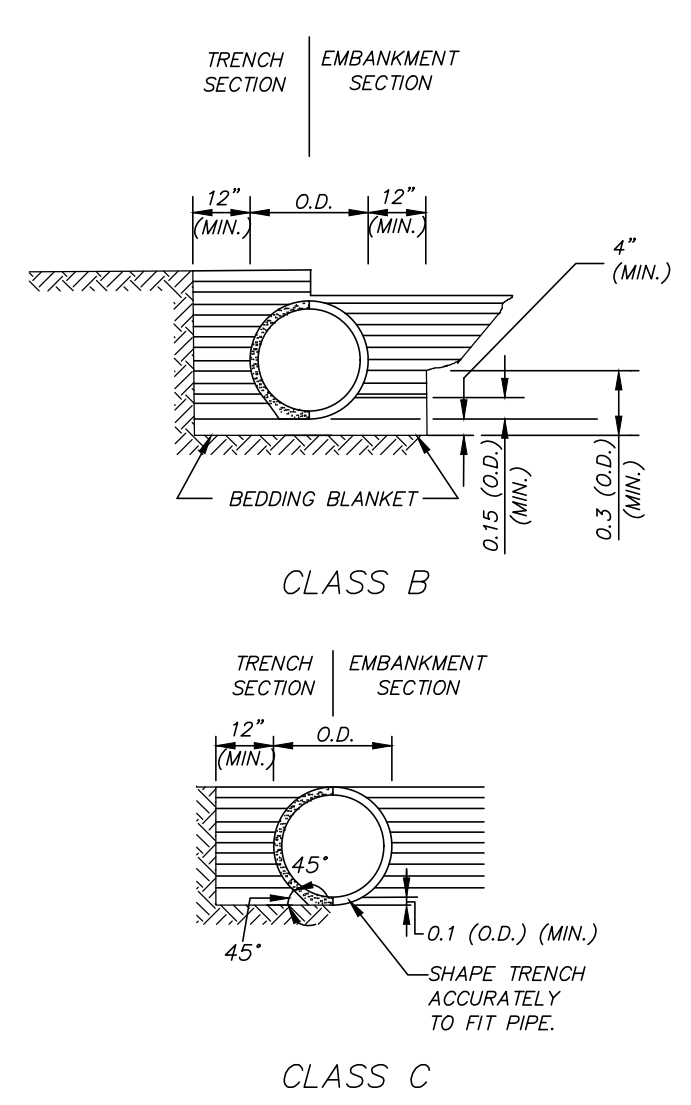
**RECOMMENDED MINIMUM TRENCH WIDTHS**

PIPE DIAM.	MIN. TRENCH WIDTH
12"	30"
15"	34"
18"	39"
24"	48"
30"	56"
36"	64"
42"	72"
48"	80"
60"	96"

**HP STORM TRENCH INSTALLATION DETAIL**

**HP STORM TRENCH NOTES:**

- ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2921, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS", LATEST ADDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2321. CLASS I/II MATERIALS (M1, O1) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2321 ARE NOT APPROPRIATE BACKFILL MATERIALS.
- MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.
- FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER. AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.
- BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE A MINIMUM OF 98% UNLESS OTHERWISE NOTED BY THE ENGINEER. MINIMUM BEDDING THICKNESS SHALL BE 4" FOR 12"-24" DIAMETER PIPE, 6" FOR 30"-60" DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.
- INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. COMPACTION SHALL BE A MINIMUM OF 95% TO THE SPRINGLINE OF THE PIPE AND 90% TO THE CROWN OF THE PIPE.
- FINAL BACKFILL: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREA) IS 12" FROM THE TOP OF THE PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOATION. FOR TRAFFIC APPLICATIONS: CLASS I OR II MATERIAL, COMPACTED TO 98% SPD AND CLASS III COMPACTED TO 98% SPD IS REQUIRED. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" UP TO 48" DIAMETER PIPE AND 24" OF COVER FOR 60" DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF ROAD PAVEMENT.
- MAXIMUM FILL HEIGHTS SHALL NOT EXCEED MANUFACTURER'S RECOMMENDATION.

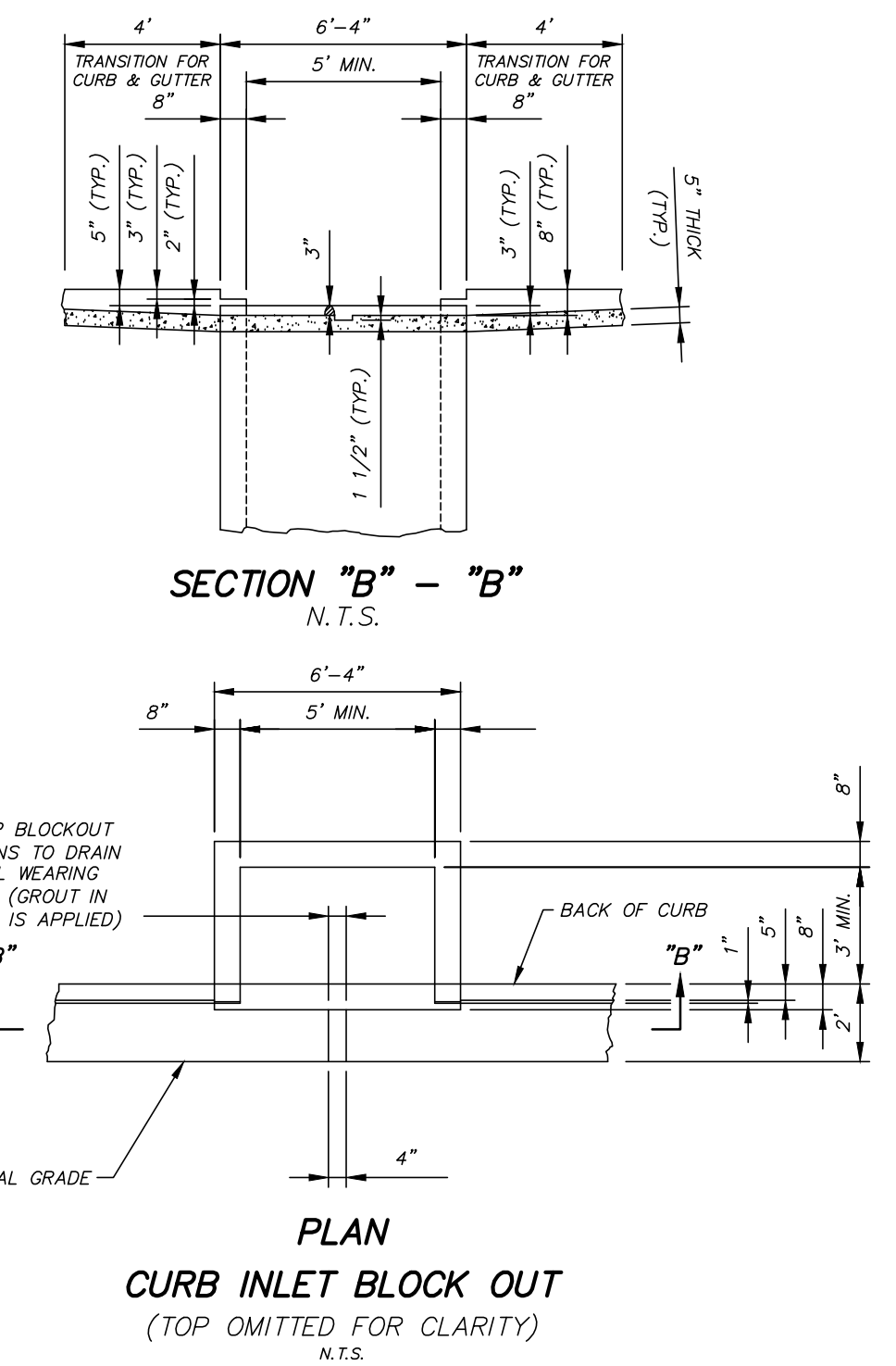


**MAXIMUM HEIGHT OF FILL OVER REINFORCED CONCRETE PIPE**

CLASS OF PIPE	MAXIMUM COVER (TD)	
	CLASS "C" BEDDING	CLASS "B" BEDDING
III	12"	19"
IV	18"	30"
V	28"	48"
SPECIAL DESIGN	>28"	>48"

**GENERAL NOTES:**

- ALL CONCRETE PIPES SHALL BE INSTALLED WITH CLASS C BEDDING UNLESS MATERIAL BELOW PIPE IS DEEMED UNSUITABLE BY ENGINEER. IN SUCH CASE UNSUITABLE SHALL BE EXCAVATED AS DIRECTED BY ENGINEER AND REPLACED WITH SELECT FILL. BEDDING BLANKET AS REQUIRED BY ENGINEER.
- MINIMUM SPACING BETWEEN MULTIPLE LINES OF PARALLEL PIPE SHALL BE THE DISTANCE REQUIRED FOR INSTALLING THE ADJACENT FLARED END SECTIONS OR AS SHOWN ON THE HEADWALL DRAWINGS FOR CONDUITS REQUIRING HEADWALLS.
- UNLESS OTHERWISE INDICATED, THE TOP OF THE PIPE SHALL BE BELOW THE TOP OF THE SUBGRADE, AND A MINIMUM OF 12" OF COVER OVER THE TOP OF THE PIPE SHALL BE MAINTAINED BETWEEN THE SHOULDER LINES. WHERE PRE-BED PIPE IS INSTALLED, FLARED END SECTIONS FROM OTHER MANUFACTURERS MAY BE JOINED TO PRE-BED PIPE PROVIDED A CONCRETE COLLAR IS PLACED AT THE CONTRACTOR'S EXPENSE AND A DEFORMATION TO THE PIPE'S FLOWLINE IS NOT EVIDENT ON FINAL PLACEMENT.



**PLAN CURB INLET BLOCK OUT**  
(TOP OMITTED FOR CLARITY)  
N.T.S.

REVISIONS:

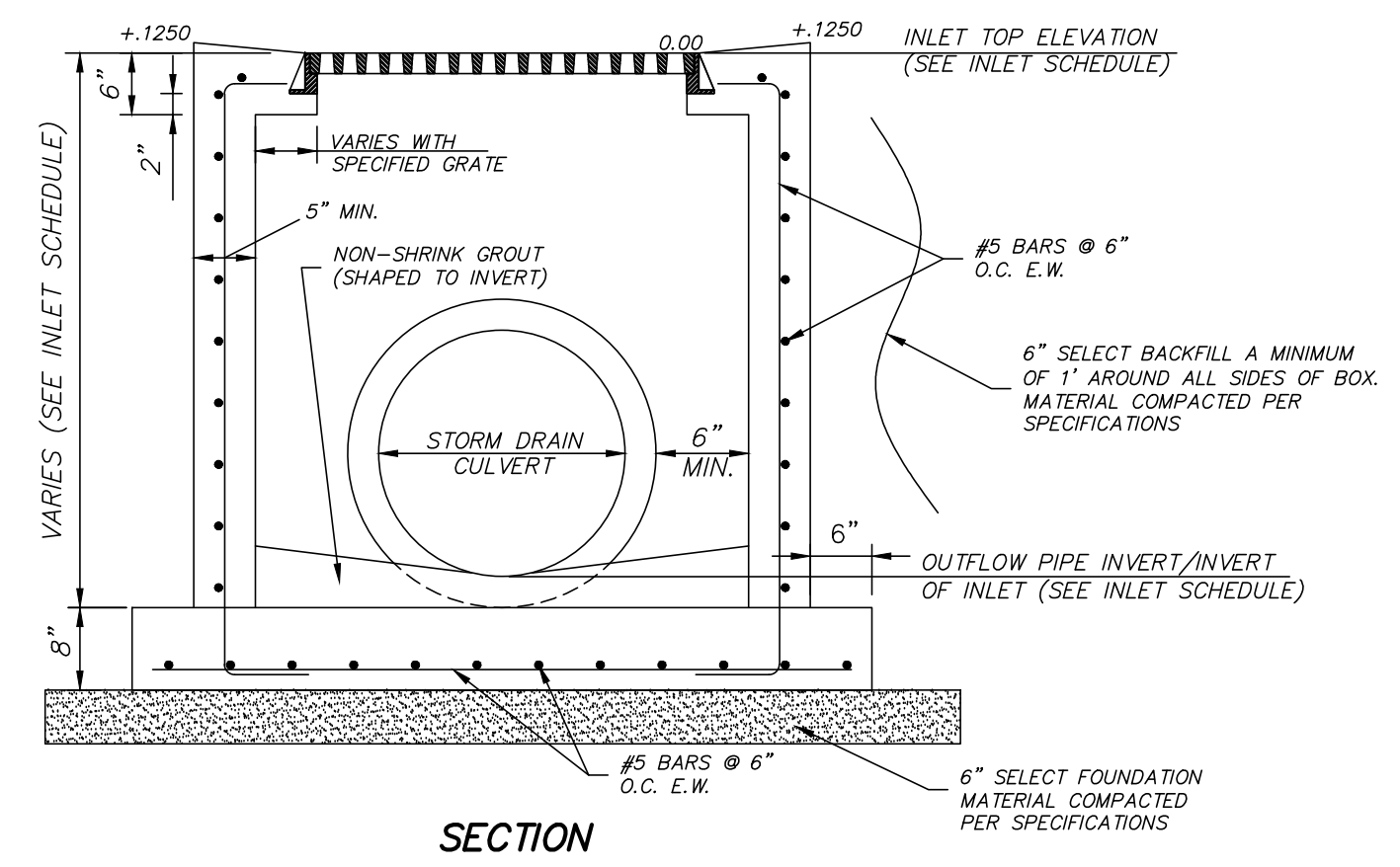
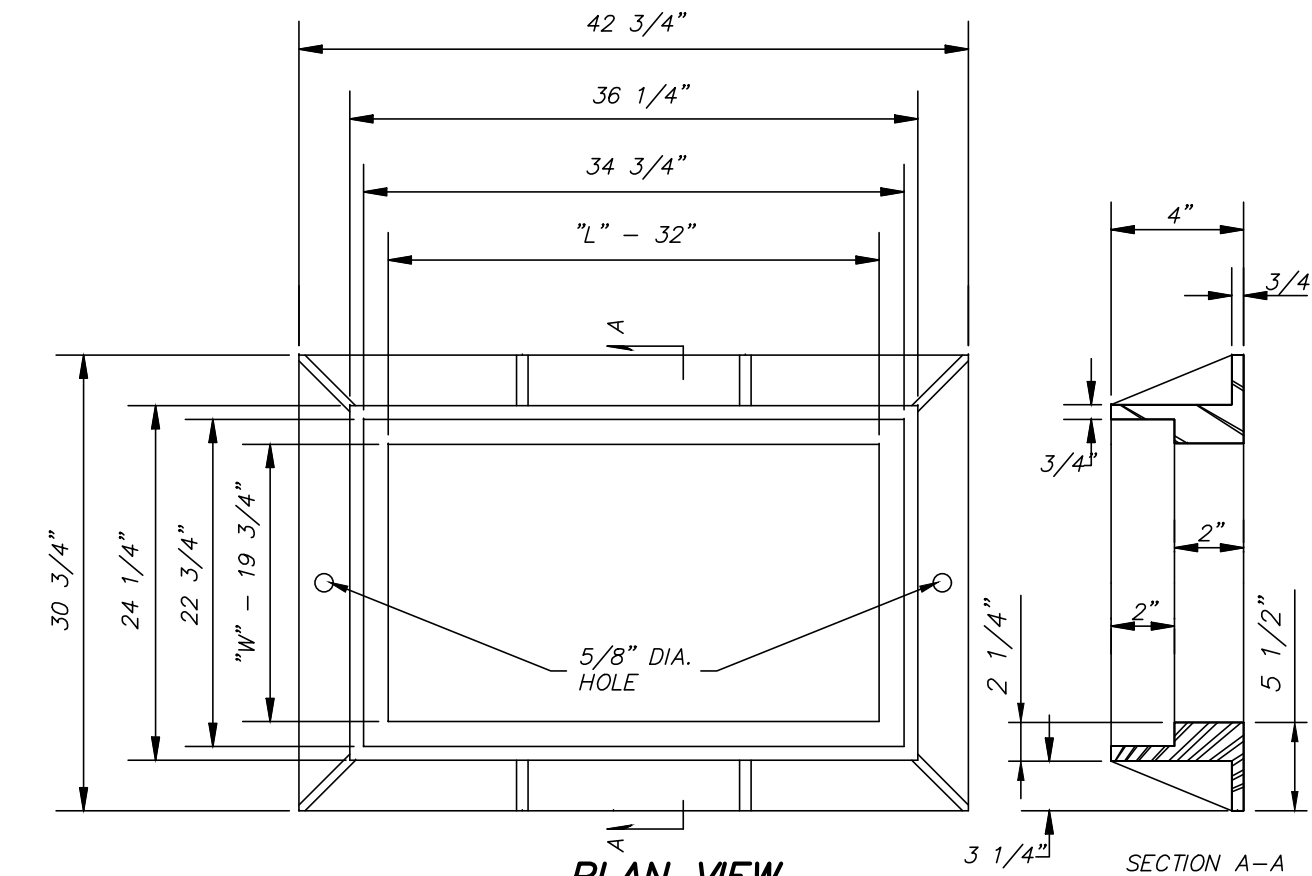
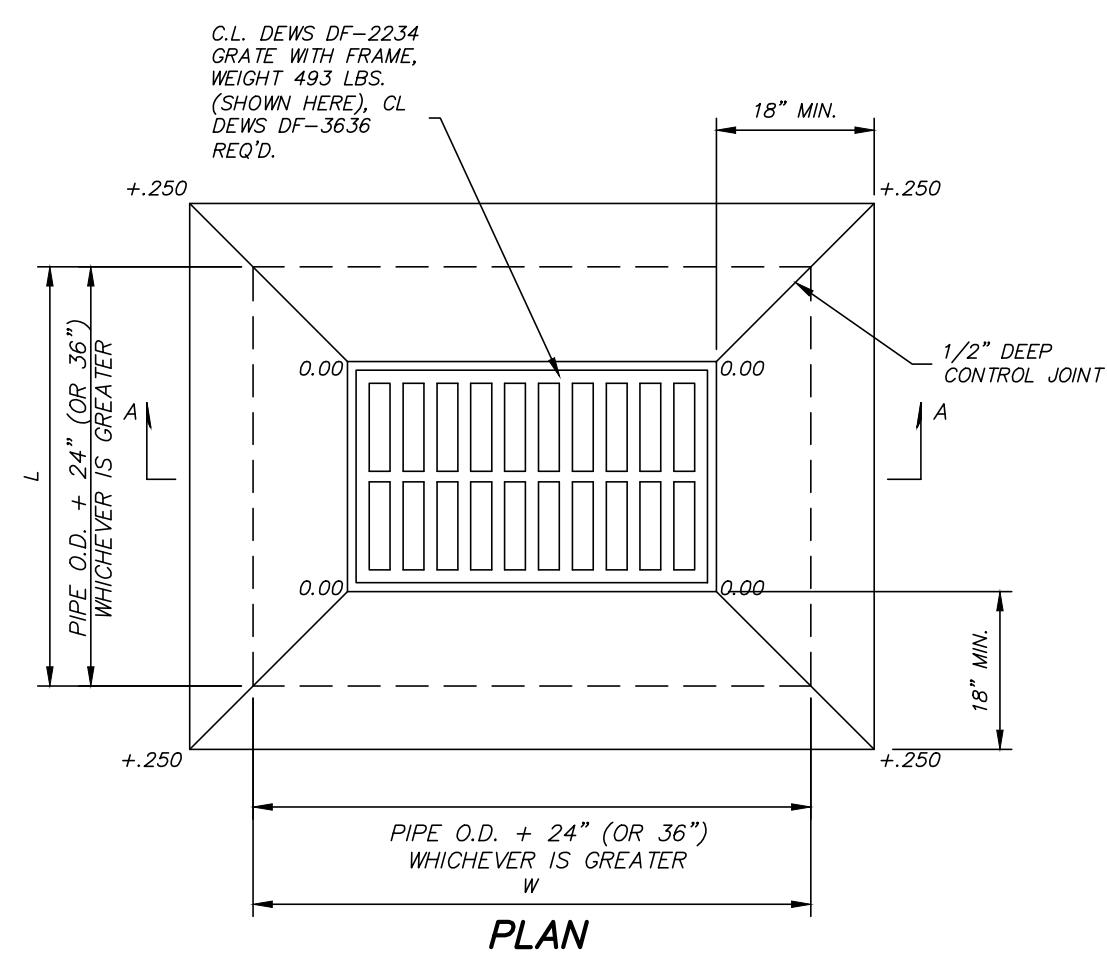
DATE: 07/25/22	DRAWN: JHB
CHECKED: GAB	SCALE:
REF C/L:	EC SURFACE:
FG SURFACE:	

PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157  
CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST. JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**  
SHEET CONTENTS:  
**STORM DRAIN DETAILS**

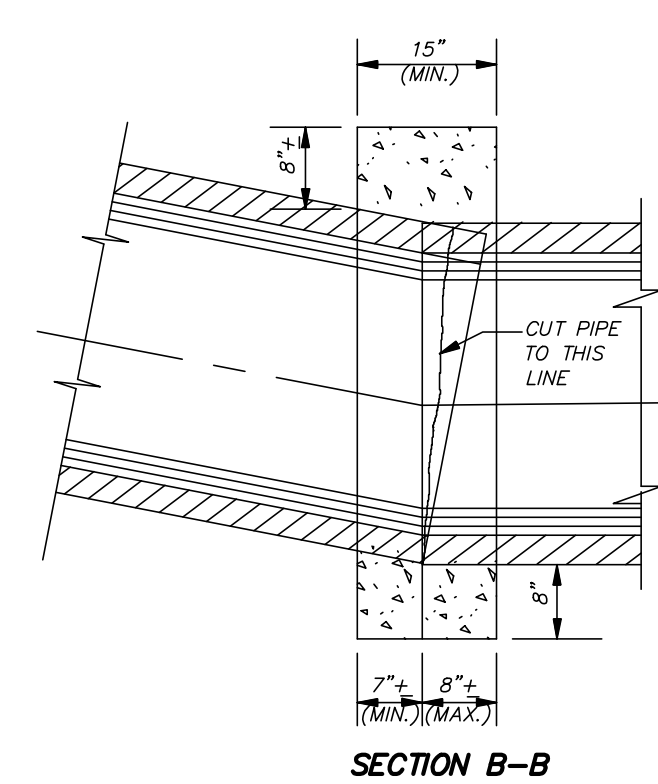
SHEET NUMBER  
**12 of 23**  
PROJECT NUMBER  
**B-8337**





- GRATE INLET NOTES:**
- "W" & "L" WILL VARY DEPENDING ON THE TYPE OF CASTING AND PIPE SIZE REQUIREMENTS SPECIFIED ON THE DRAWINGS. IT IS INTENDED THAT THE FRAME BE CENTERED ON THE BOX UNLESS NOTED OTHERWISE.
  - BOXES MAY BE PRECAST IF ELEVATIONS ALLOW OR POURED IN PLACE (4000 PSI 28 DAY COMPRESSIVE STRENGTH).
  - ALL GRATES ON THIS PROJECT SHALL BE 36"x36" (CL DEWS DF-3636) OR APPROVED EQUAL AND RATED FOR TRAFFIC.
  - CONCRETE APRON WITH A MINIMUM WIDTH OF 18" REQUIRED ON ALL GRATE INLETS.
  - WIDTHS AND DEPTHS OF CATCH BASINS DETERMINED BY PIPE SIZES AND ANGLES AND CASTINGS TO BE USED. A MINIMUM OF 6" FROM THE OUTSIDE EDGE OF THE PIPE TO THE INSIDE EDGE OF THE WALL IS REQUIRED UNLESS MANUFACTURER RECOMMENDS OTHERWISE.
  - CONTRACTOR TO ENSURE THAT WATER IS NOT ALLOWED TO POND BEHIND THE INLET BOXES DURING CONSTRUCTION.
  - ON PRECAST CONCRETE BOXES THE LIFT HOLES ON EACH SECTION TO BE SEALED WATER TIGHT WITH NONSHRINK GROUT INSIDE AND OUT.
  - BOXES SHALL HAVE FORMED INVERTS OUT OF NONSHRINK GROUT SLOPING TO DRAIN TO OUTLET CULVERT.
  - STEPS REO'D. IN STRUCTURES GREATER THAN 48" IN DEPTH. FIRST STEP TO BE 18" FROM THE BOTTOM WITH 12" SPACING BETWEEN REMAINING STEPS.
  - PRECAST BOXES SHALL BE POURED IN SECTIONS AS NEEDED AND RECOMMENDED BY THE MANUFACTURER TO GET TO DESIRED ELEVATION.
  - BOX WIDTH WILL VARY DEPENDING ON THE SIZE OF THE PIPES ENTERING AND LEAVING THE BOX. IT IS UP TO THE CONTRACTOR/MANUFACTURER TO DETERMINE SIZE OF BOX.
  - IN GRASSED AREAS, GRATE INLETS SHALL BE MANUFACTURED OR POURED SO THAT THE COVER AND APRON IS THE ONLY PART OF THE BOX THAT IS VISIBLE ONCE FINAL GRADING HAS BEEN DONE.

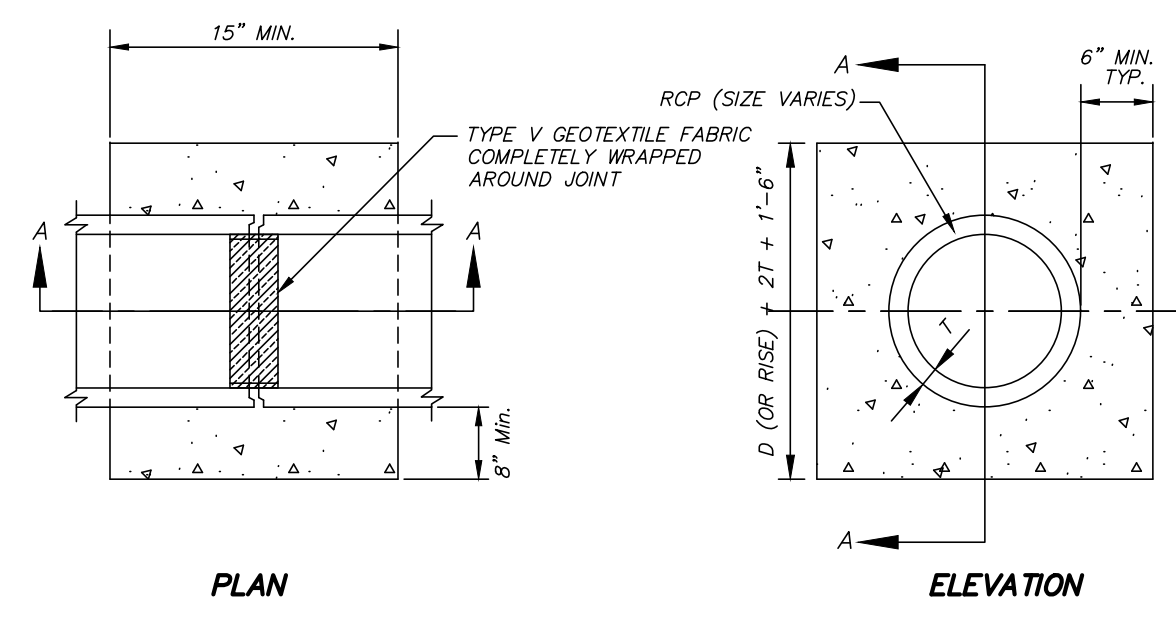
**POURED IN PLACE GRATE INLET WITH PAVED APRON**



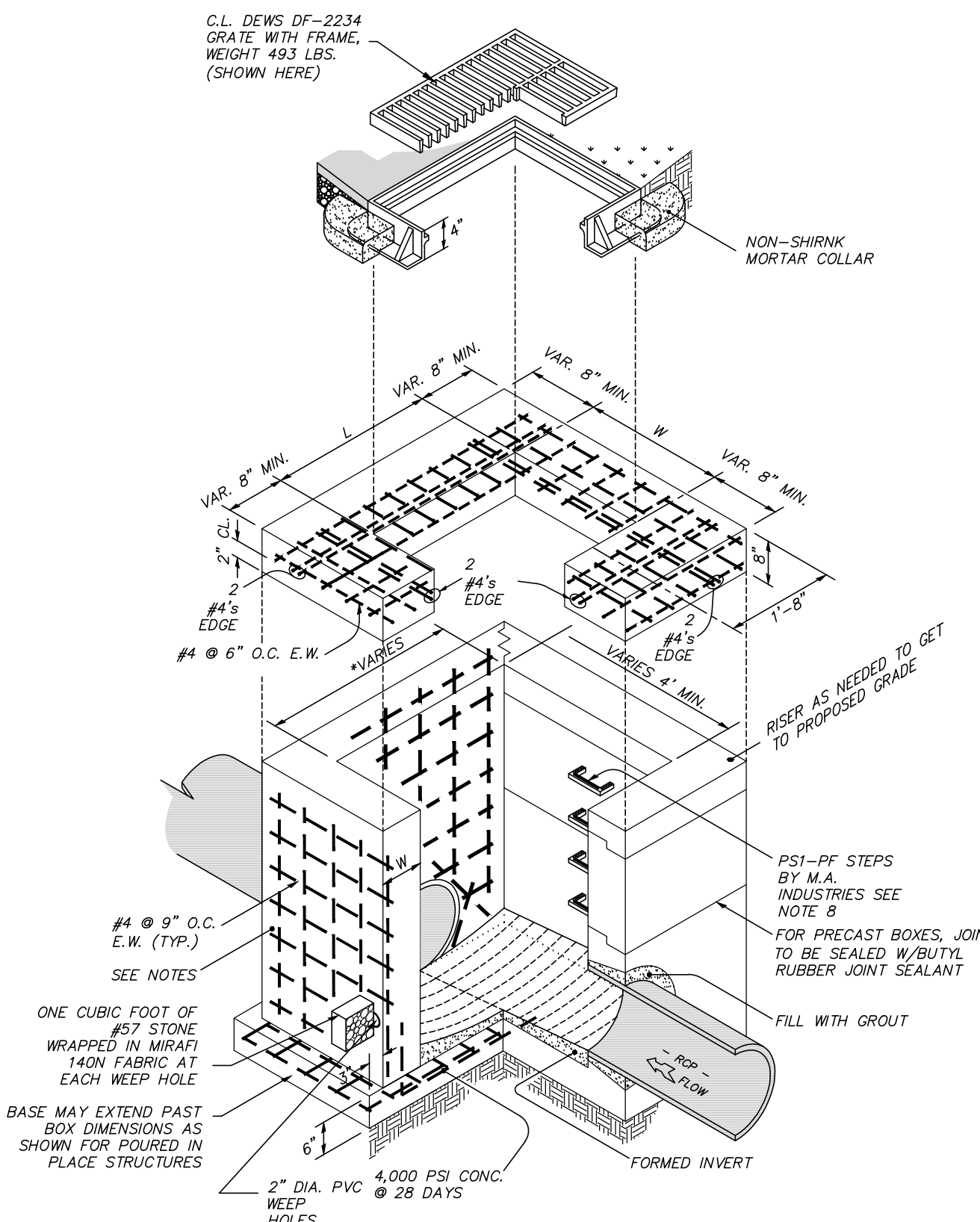
- GENERAL NOTE:**
- THE FOLLOWING QUANTITIES SHALL BE THE BASIS FOR PAYMENT UNLESS AUTHORIZED MODIFICATIONS ARE MADE:

QUANTITIES FOR CONCRETE COLLAR FOR PIPE CULVERTS			
CIRCULAR PIPE		ARCH PIPE	
DIA. OF PIPE	CLASS "B" CONCRETE (yd <sup>3</sup> )	SIZE OF PIPE	CLASS "B" CONCRETE (yd <sup>3</sup> )
12"	0.240		
15"	0.260	18 x 11	0.280
18"	0.320	22 x 13	0.310
24"	0.410	29 x 18	0.410
30"	0.510	36 x 23	0.490
36"	0.620	44 x 27	0.600
42"	0.730	51 x 31	0.690
48"	0.850	58 x 36	0.820
54"	0.980	65 x 40	0.920
60"	1.110	73 x 45	1.070
66"	1.248	88 x 54	1.366
72"	1.393		

**CONCRETE COLLAR**



- CONCRETE COLLAR NOTES:**
- PIPES SHALL BE SAWCUT TO PROVIDE SMOOTH CONNECTION AND JOINTS SHALL BE SEALED AND WRAPPED WITH TYPE V GEOTEXTILE FABRIC.
  - ALL CONCRETE CONSTRUCTION SHALL MEET THE APPLICABLE REQUIREMENTS OF THE MISSISSIPPI STANDARD SPECIFICATIONS OF ROAD AND BRIDGE CONSTRUCTION.
  - CIRCULAR PIPE IS SHOWN ON DETAIL, ARCH PIPE COLLAR IS SIMILAR.
  - CONCRETE COLLARS SHALL BE PAID FOR ON A PER EACH BASIS BASED ON THE PIPE SIZE.



- GUTTER INLET NOTES:**
- "L" AND "W" DIMENSIONS WILL VARY DEPENDING ON THE TYPE OF CASTING SPECIFIED ON THE DRAWINGS. IT IS INTENDED THAT THE FRAME BE CENTERED ON THE BOX UNLESS NOTED OTHERWISE.
  - BOXES MAY BE PRECAST IF ELEVATIONS ALLOW OR POURED IN PLACE (4000 PSI 28 DAY COMPRESSIVE STRENGTH). PRECAST MANHOLES WITH CONE TOPS MAY BE USED FOR GRATE INLETS IF THE PIPE SIZES ALLOW.
  - WIDTHS AND DEPTHS OF CATCH BASINS DETERMINED BY PIPE SIZES AND ANGLES AND CASTINGS TO BE USED. A MINIMUM OF 12" FROM THE OUTSIDE EDGE OF THE PIPE TO THE INSIDE EDGE OF THE WALL IS REQUIRED.
  - CONTRACTOR TO ENSURE THAT WATER IS NOT ALLOWED TO POND BEHIND THE INLET BOXES DURING CONSTRUCTION.
  - ON PRECAST CONCRETE BOXES THE LIFT HOLES ON EACH SECTION TO BE SEALED WATER TIGHT WITH NONSHRINK GROUT INSIDE AND OUT.
  - BOXES SHALL HAVE FORMED INVERTS OUT OF NONSHRINK GROUT SLOPING TO DRAIN TO OUTLET CULVERT.
  - STEPS REO'D. IN STRUCTURES GREATER THAN 48" IN DEPTH. FIRST STEP TO BE 18" FROM THE BOTTOM WITH 12" SPACING BETWEEN REMAINING STEPS.
  - PRECAST BOXES SHALL BE POURED IN SECTIONS AS NEEDED AND RECOMMENDED BY THE MANUFACTURER TO GET TO DESIRED ELEVATION.
  - BOX WIDTH WILL VARY DEPENDING ON THE SIZE OF THE PIPES ENTERING AND LEAVING THE BOX. IT IS UP TO THE CONTRACTOR/MANUFACTURER TO DETERMINE SIZE OF BOX.
  - GRATE INLETS SHALL BE MANUFACTURED OR POURED SO THAT THE COVER IS THE ONLY PART OF THE BOX THAT IS VISIBLE ONCE FINAL GRADING HAS BEEN DONE. CONTRACTOR SHALL INSTALL RISERS AS NEEDED TO ENSURE THAT A MINIMUM OF 4" OF SOIL CAN BE PLACED ON TOP OF THE BOX TO COVER IT.
  - ALL ITEMS SHOWN ON THIS DETAIL INCLUDING FRAME AND COVER AS WELL AS COMPLETE INSTALLATION AND CONNECTION OF PIPING SHALL BE INCLUDED IN THE PER EACH PAY ITEM "GRATE INLET".

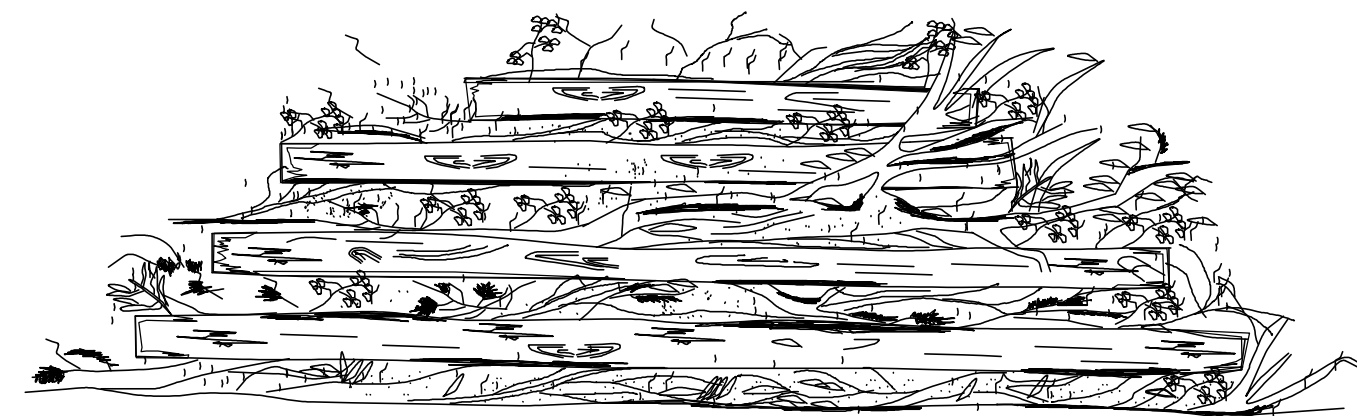
**GRATE INLET DETAIL**



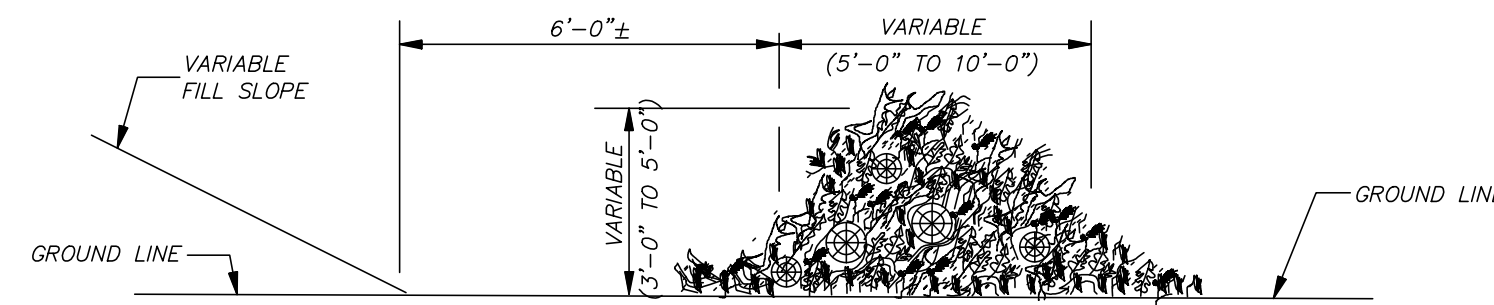
Species	Seeding Rate/Ac	Planting Time	Desired pH Range	Fertilization Rate/Ac	Method of Establishing
Common Bermuda	15 lbs. alone 10 lbs. mixture	Mar 1 - July 15 Sept 1 - Nov 30	6.0 - 7.0	600 lbs. 13-13-13	Seed
Bahia	40 lbs. alone 30 lbs. mixture	Mar 1 - July 15 Sept 1 - Nov 30	6.0 - 7.0	600 lbs. 13-13-13	Seed
Fescue	40 lbs. alone 30 lbs. mixture	Sept 1 - Nov 30	6.0 - 7.0	600 lbs. 13-13-13	Seed
Sericea Lespedeza	40 lbs. alone	Mar 1 - July 15 Sept 1 - Nov 30	6.0 - 7.0	400 lbs. 6-24-24	Seed
*Wheat	90 lbs.	Sept 1 - Nov 30	6.0 - 7.0	600 lbs. 13-13-13	Seed
*Ryegrass	30 lbs.	Sept 1 - Nov 30	6.0 - 7.0	600 lbs. 13-13-13	Seed
*White Clover	5 lbs.	Sept 1 - Nov 30	6.0 - 7.0	400 lbs. 6-24-24	Seed
*Crimson Clover	15 lbs.	Sept 1 - Nov 30	6.0 - 7.0	400 lbs. 6-24-24	Seed
*Hairy Vetch	30 lbs.	Sept 1 - Nov 30	6.0 - 7.0	400 lbs. 6-24-24	Seed
*Browtop Millet	40 lbs. alone 15 lbs. mixture	Apr 1 - Aug 30	6.0 - 7.0	600 lbs. 13-13-13	Seed

- \*ANNUAL
- NOTES:
- FOR PERMANENT SEEDING, ANNUALS CAN ONLY BE USED IN A MIXTURE WITH PERENNIALS.
  - SPECIES THAT ARE TO BE SPREAD AS SOLID SOD ARE NOT LISTED (I.E. ST. AUGUSTINE, CENTPEDEE, CARPET GRASS, & ZOYSIA)
  - DURING THE MONTHS OF DECEMBER THROUGH FEBRUARY MULCHING IS THE ONLY OPTION ALLOWED.

GENERAL RECOMMENDATIONS FOR TEMPORARY/PERMANENT SEEDING



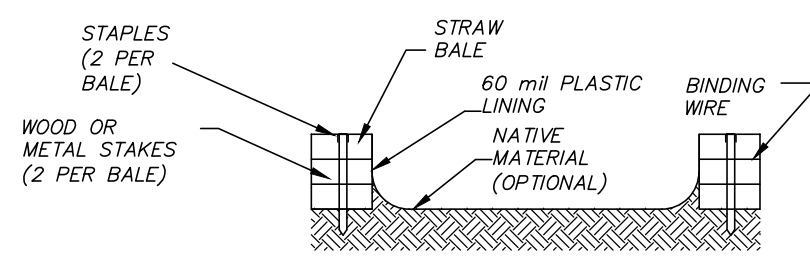
FRONT ELEVATION



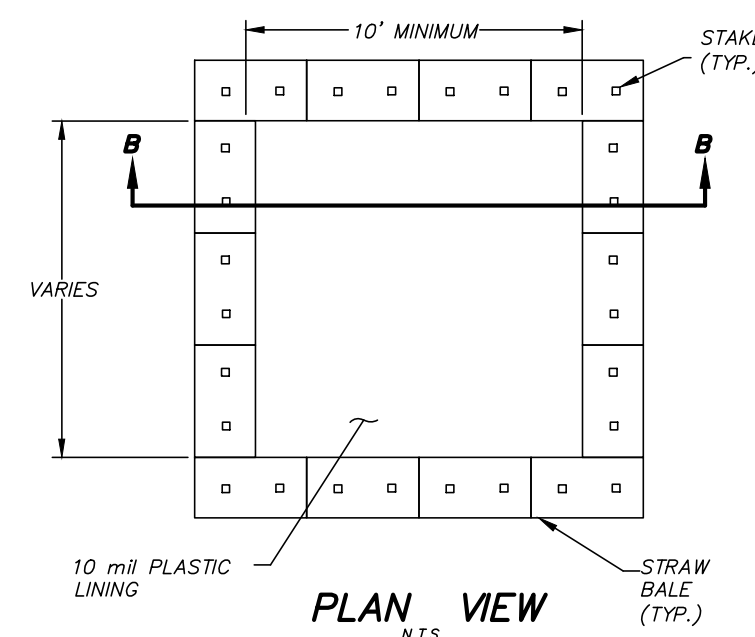
SIDE ELEVATION

- NOTES:
- BRUSH BARRIER TO BE USED WHERE NATURAL GROUND COVER IS LEVEL OR SLOPING AWAY FROM PROJECT.
  - 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 THE PLANS OR AS DIRECTED BY THE ENGINEER.
  - TO ALLOW WATER TO FLOW THROUGH THE BRUSH BARRIER, INTERMINGLE THE BRUSH, LOG AND TREE LAPS SO AS NOT TO FORM A SOLID DAM.

TEMPORARY BRUSH BARRIER



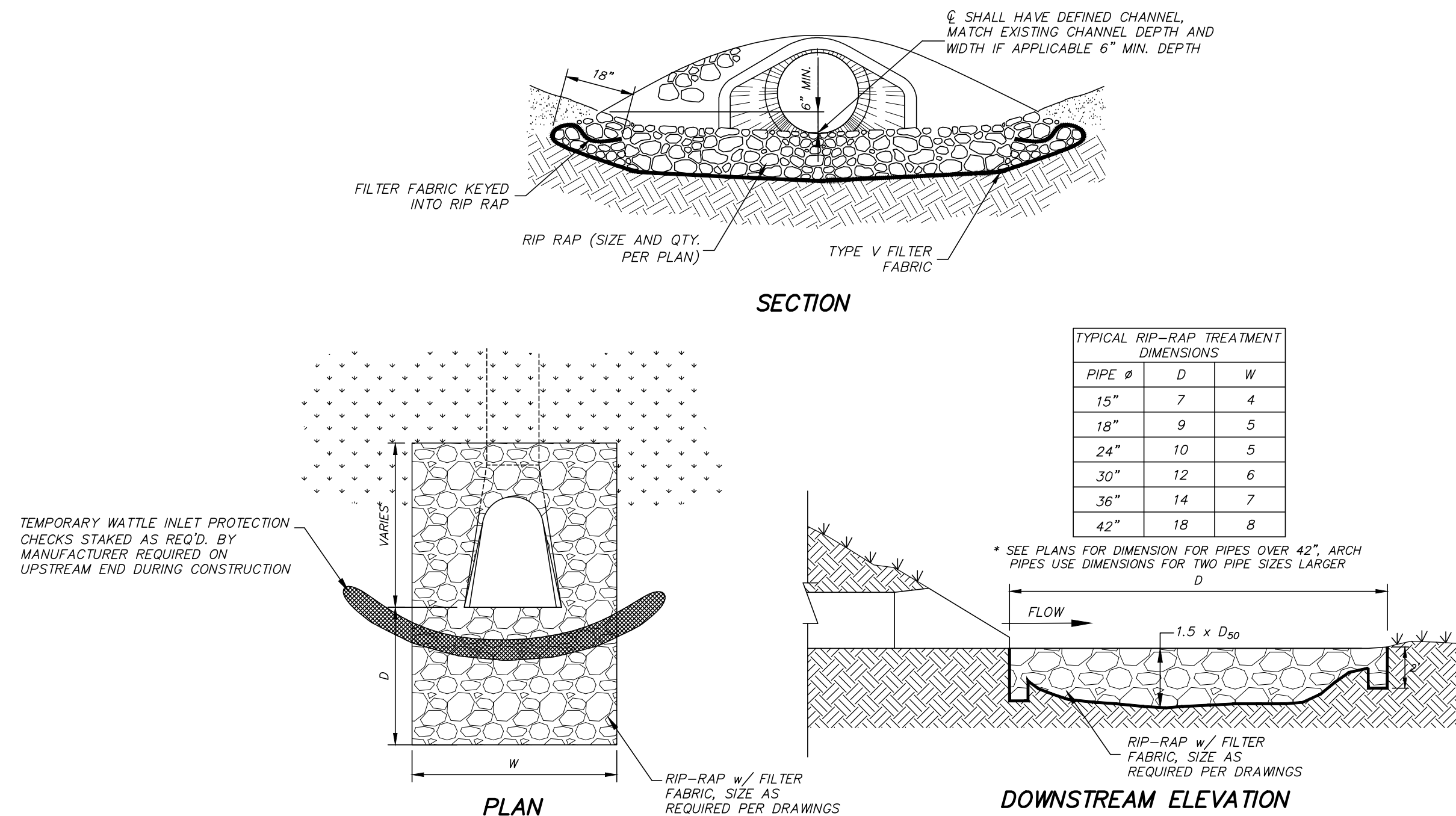
SECTION B-B



PLAN VIEW

STRAW BALE CONCRETE WASHOUT AREA

- NOTES:
- LOCATION TO BE DETERMINED BY CONTRACTOR AND APPROVED BY THE ENGINEER OR ENGINEER'S REPRESENTATIVE.
  - IF CONCRETE WASHOUT AREA EXHIBITS LEAKAGE OR PROVES TO BE INADEQUATE FOR ITS INTENDED PURPOSE, THE CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE.
  - IF REQUIRED BY ENGINEER OR C.O.J., AREAS IMMEDIATELY DOWNSTREAM/DOWNSLOPE SHALL INCLUDE A SECONDARY STORMWATER RUNOFF POLLUTION PREVENTION MEASURE.
  - MAINTENANCE SHALL BE IN ACCORDANCE WITH THE APPROVED STORMWATER MANAGEMENT PLAN.



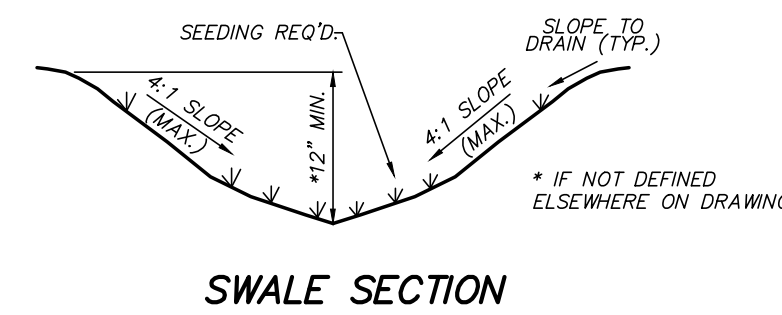
- NOTES:
- RIP-RAP TREATMENT REQUIRED AT ALL CULVERTS UPSTREAM AND DOWNSTREAM ENDS.
  - RIP-RAP TREATMENT ON UPSTREAM AND DOWNSTREAM ENDS SHALL TOTALLY SURROUND CULVERT TO A MINIMUM OF 12" ABOVE THE TOP OF THE PIPE.
  - SEE CHART FOR DIMENSIONS FOR D & W UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
  - RIP-RAP WILL BE PAID FOR BY THE SQUARE YARD.
  - RIP-RAP DIMENSIONS SHOWN ON THE SCHEDULE ARE TYPICAL AND MAY BE FIELD ADJUSTED BY ENGINEER. ANY CHANGE IN QUANTITY RESULTING FROM FIELD ADJUSTMENT WILL BE PAID PER SQUARE YARD AT CONTRACT UNIT PRICE.

CULVERT RIP-RAP OUTLET PROTECTION

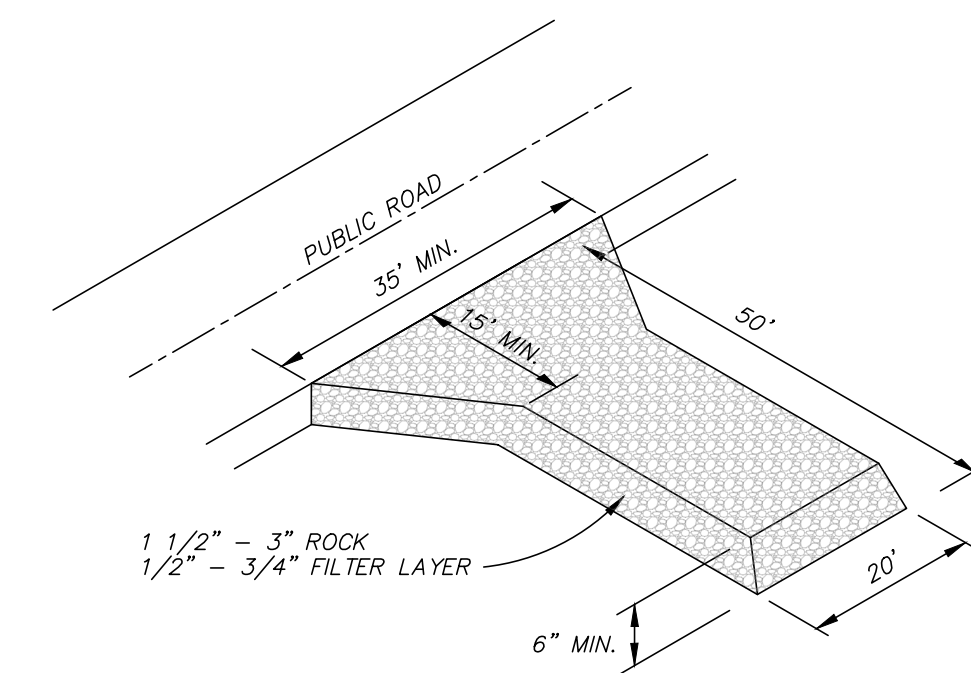
TYPICAL RIP-RAP TREATMENT DIMENSIONS

PIPE Ø	D	W
15"	7	4
18"	9	5
24"	10	5
30"	12	6
36"	14	7
42"	18	8

\* SEE PLANS FOR DIMENSION FOR PIPES OVER 42". ARCH PIPES USE DIMENSIONS FOR TWO PIPE SIZES LARGER

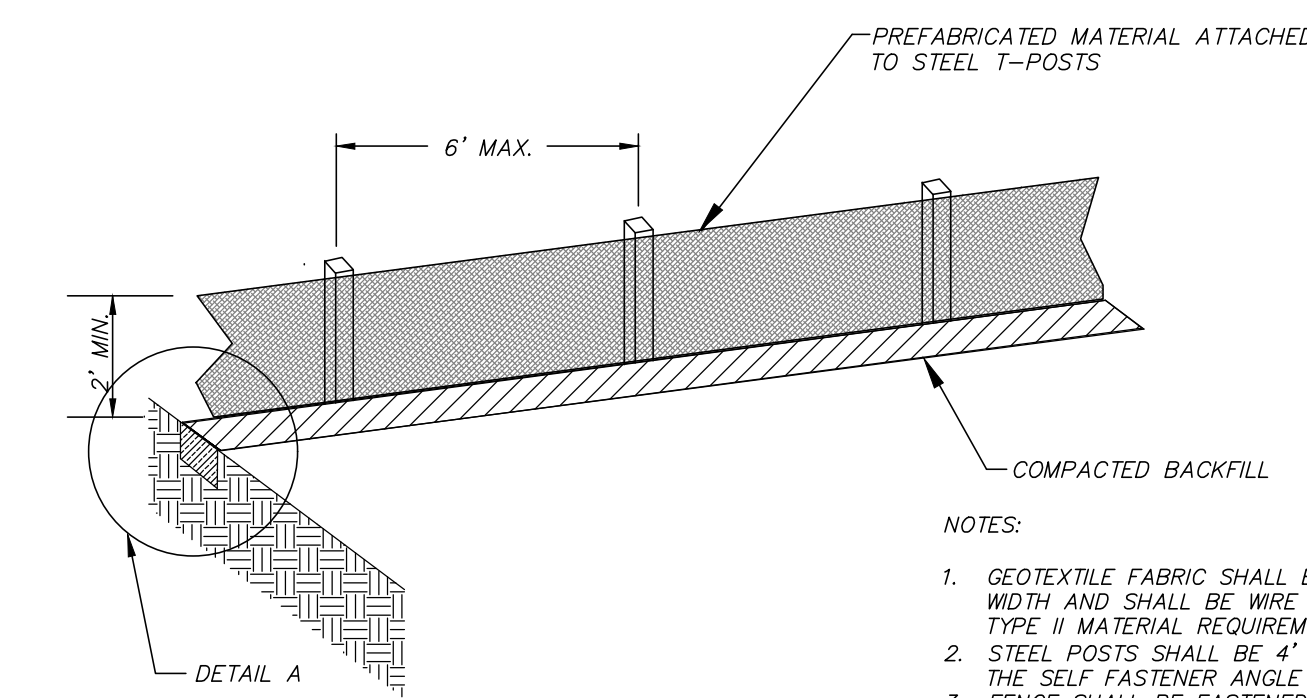


SWALE SECTION



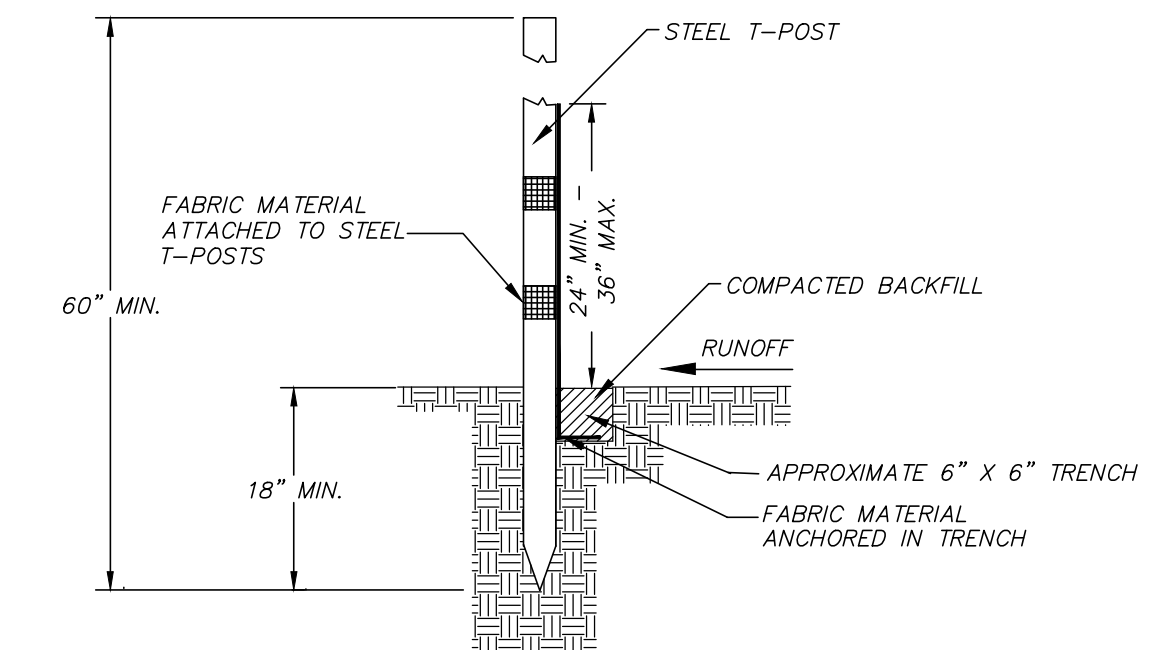
- NOTES:
- VEHICLE TRACKING MAT SHALL BE LOCATED AT EVERY ENTRANCE/EXIT TO THE CONSTRUCTION SITE.
  - VEHICLE TRACKING MAT SHALL BE MAINTAINED BY CONTRACTOR AS NEEDED TO PREVENT ANY MATERIAL FROM BEING TRACKED ONTO CITY STREET.
  - SEDIMENT AND OTHER MATERIAL SPILLED, DROPPED OR TRACKED ONTO CITY STREET SHALL BE IMMEDIATELY REMOVED BY CONTRACTOR.
  - DIMENSIONS SHOWN ABOVE ARE TYPICAL IF CONDITIONS ALLOW. ANY REVISIONS TO DIMENSIONS SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION.

TEMPORARY CONSTRUCTION ENTRANCE DETAIL



- NOTES:
- GEOTEXTILE FABRIC SHALL BE A MINIMUM OF 36" IN WIDTH AND SHALL BE WIRE BACKED OR MEET MDOT TYPE II MATERIAL REQUIREMENTS.
  - STEEL POSTS SHALL BE 4" (MIN.) IN HEIGHT AND OF THE SELF FASTENER ANGLE STEEL TYPE.
  - FENCE SHALL BE FASTENED WITH NOT LESS THAN 9 GAGE STAPLES 1" LONG FOR WOODEN POSTS AND 3/4" FOR WOODEN STAKES.
  - ALLOW A 6" OVERLAP OF FABRIC AT JOINTS.
  - ADD WEIGHTED/STAKED WATTLES AS REQ'D/DIRECTED.

SILT FENCE DETAIL



SILT FENCE DETAILS

REVISIONS:

DATE	BY	DESCRIPTION
07/25/22	JHB	DRAWN
	GAB	CHECKED
		SCALE
		REF C/L
		EC SURFACE
		FG SURFACE

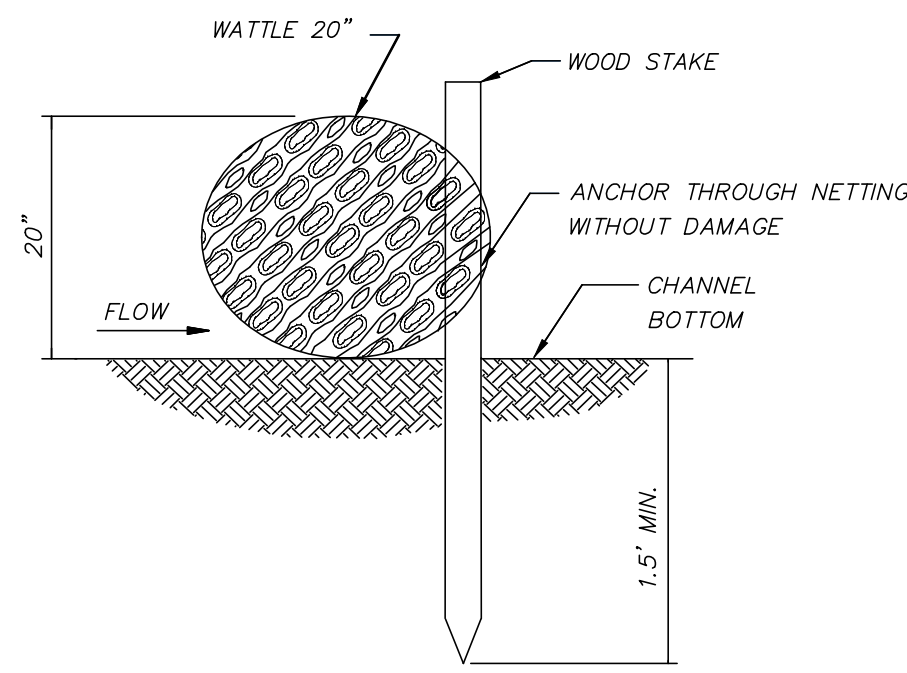
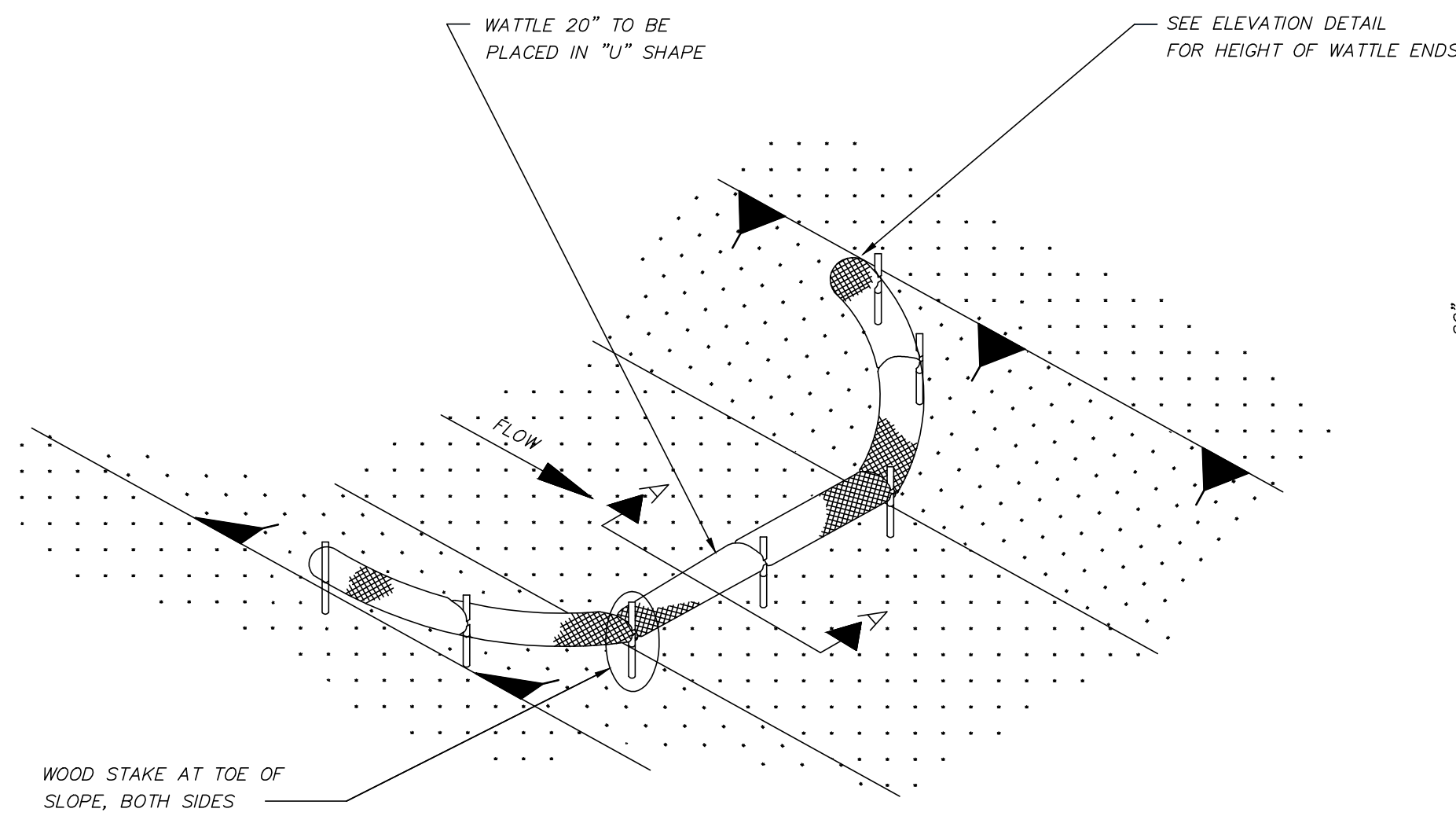
PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157

CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST. JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**

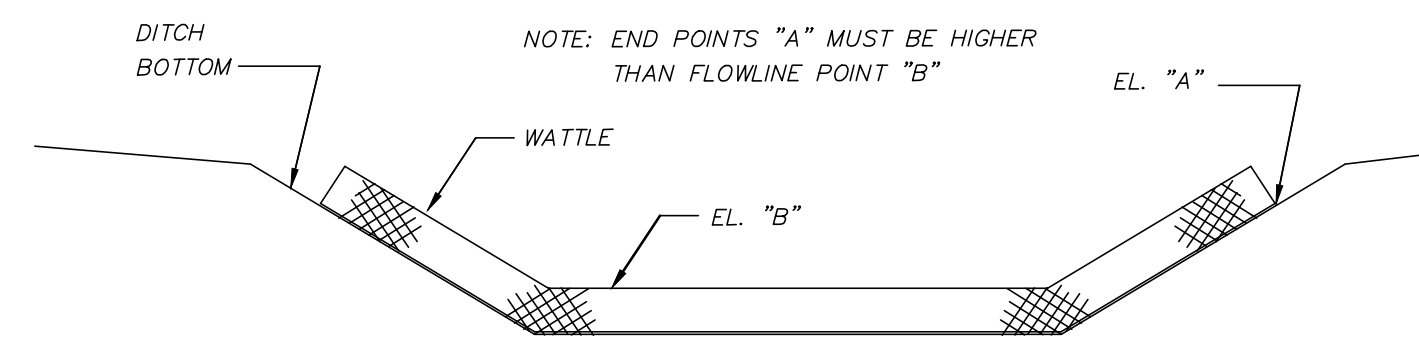
SHEET CONTENTS:  
**EROSION CONTROL DETAILS**





SECTION A-A

DETAIL (DITCH CHECK)



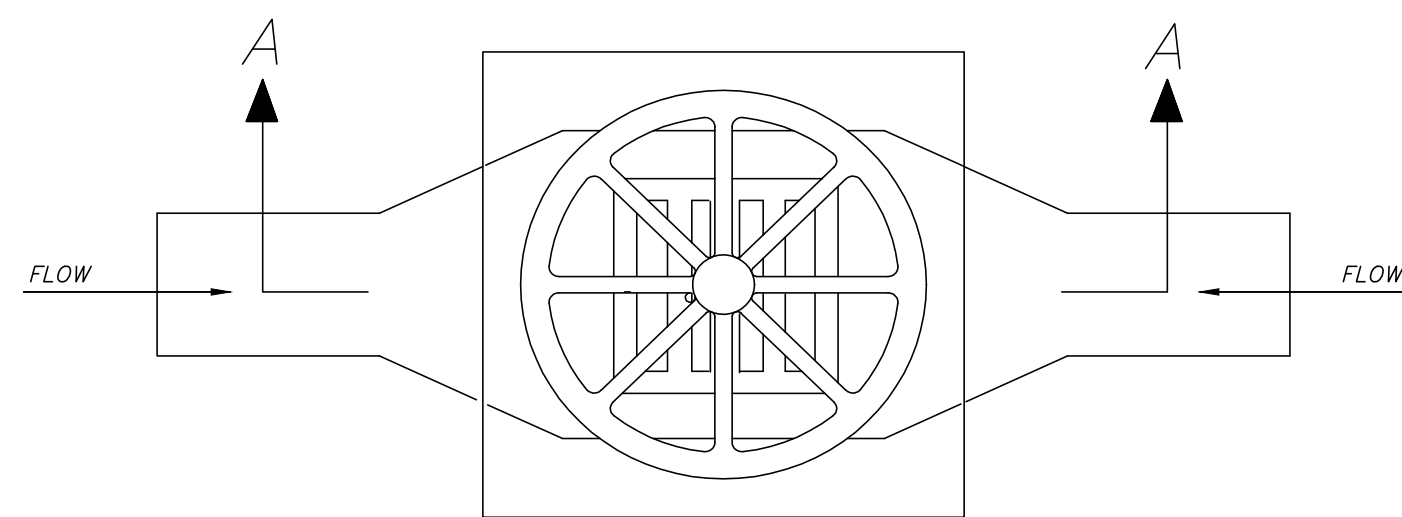
ELEVATION DETAIL

- NOTES:
1. MINIMUM RECOMMENDED PLACEMENT INTERVAL BETWEEN WATTLE DITCH CHECK IS 100' UNLESS SHOWN OTHERWISE ON THE PLANS OR EROSION CONTROL PLAN APPROVED BY THE ENGINEER. SEE SPACING GUIDANCE ON ECD-4.
  2. ANCHORING WOOD STAKES SHALL BE SIZED, SPACED, DRIVEN, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE CHECK. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET. ALL NON-DEGRADABLE MATERIALS SHALL BE REMOVED WHEN NO LONGER NEEDED.
  3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.
  4. WATTLES SHOULD NOT BE USED IN HARD BOTTOM CHANNELS.

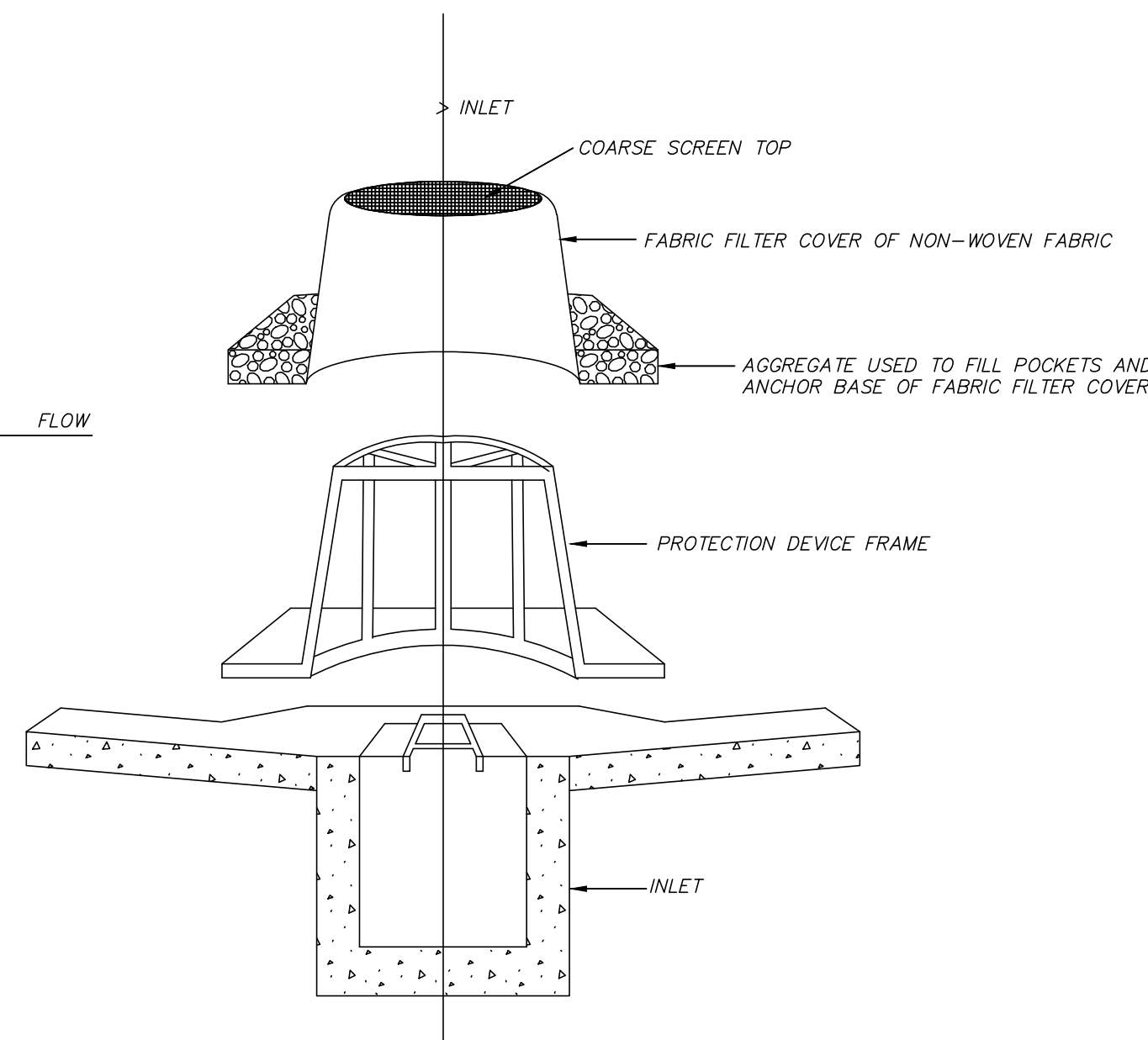
WATTLE DITCH CHECK SELECTION GUIDELINES

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

WATTLE DITCH CHECK



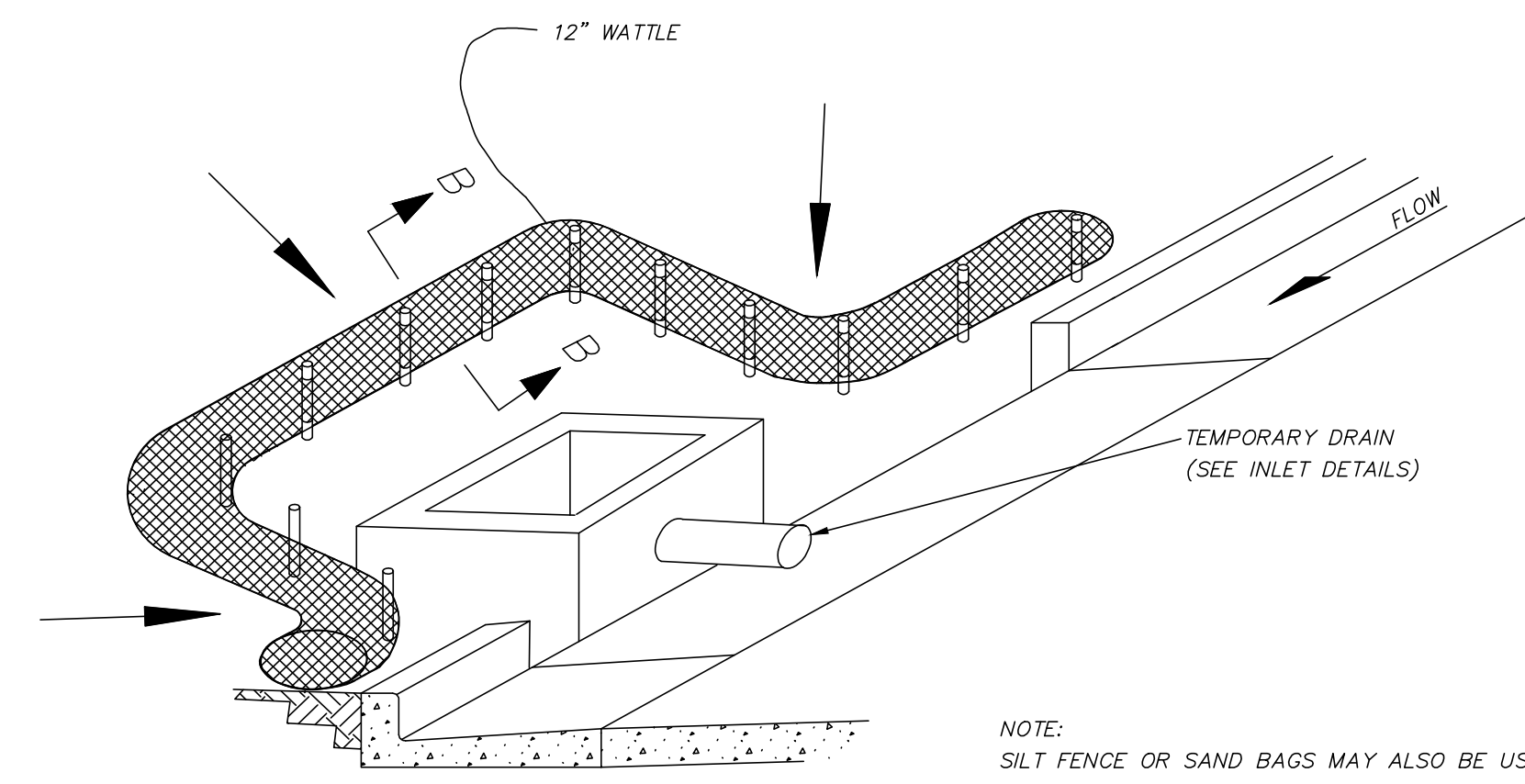
PLAN



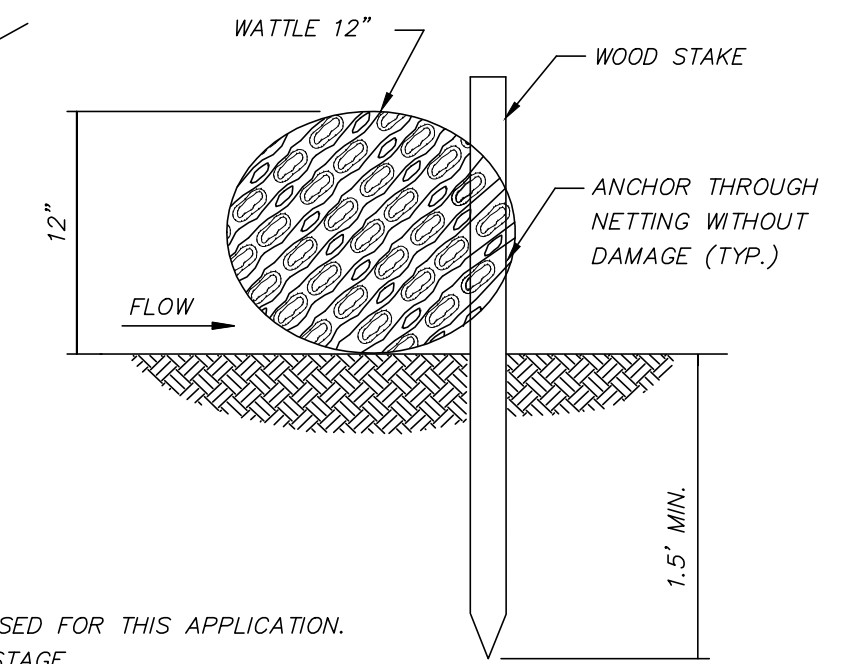
SECTION "A-A"

MANUFACTURED INLET PROTECTION DEVICE

- NOTES:
1. FRAMES WITH EITHER SQUARE OR CIRCULAR BASES MAY BE USED. SELECTED FRAME BASE SHOULD PROVIDE BEST SEAL AROUND INLET AS DIRECTED BY THE ENGINEER.
  2. FILL POCKETS AROUND BASE OF FILTER COVER WITH #7 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR FLUME.
  3. USE ONLY DURING STAGE 3 OR STAGE 4 INLET CONSTRUCTION.
  4. FOR MEDIAN INLET PROTECTION, THE ELEVATION OF THE COARSE SCREEN TOP SHOULD BE A MINIMUM OF 6" BELOW THE ELEVATION OF THE OUTSIDE EDGE OF THE INSIDE SHOULDER.

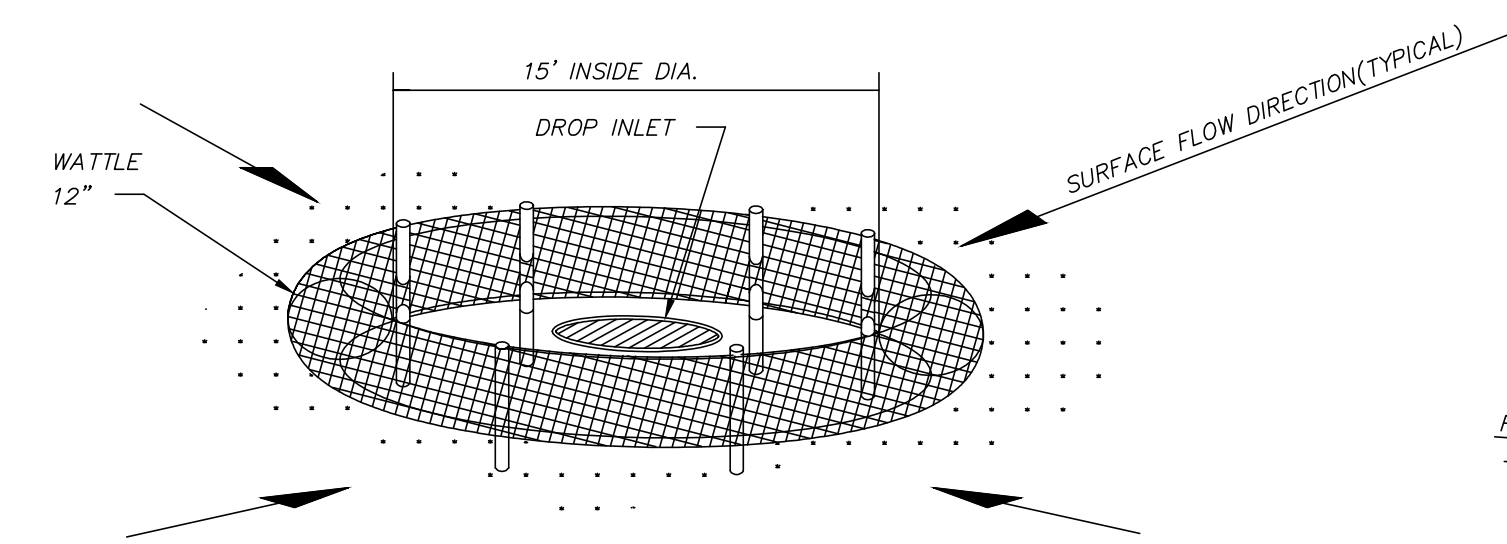


CURB INLET PROTECTION (STAGE 2)  
 SINGLE OR DOUBLE WING INLET



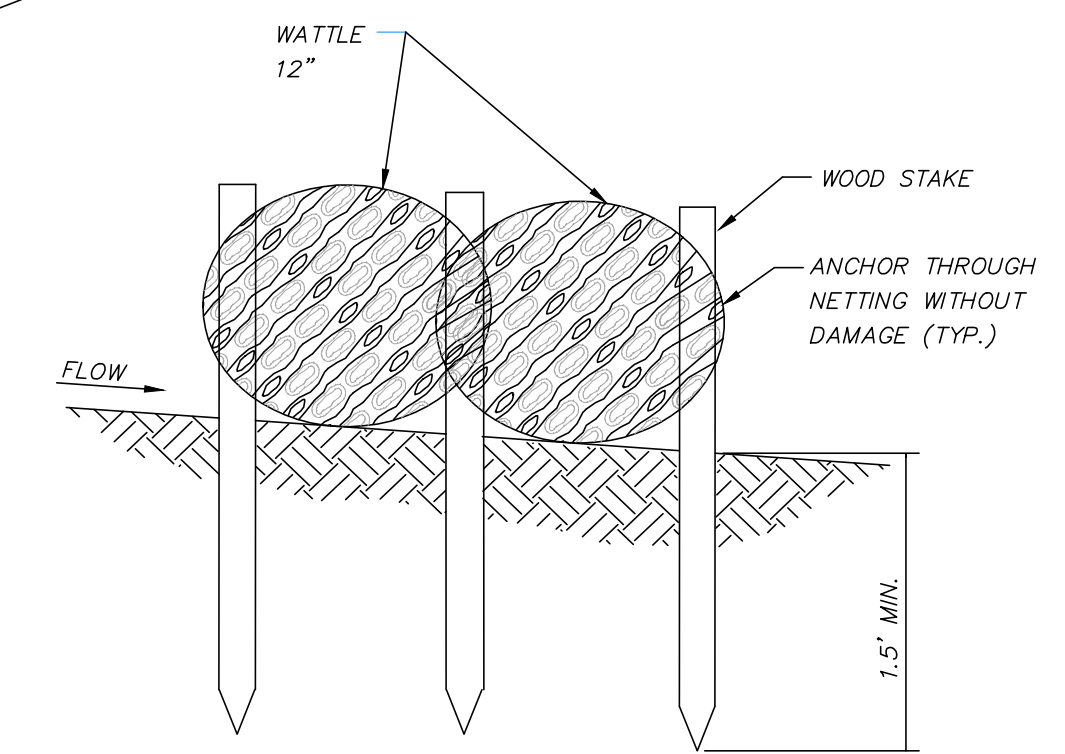
SECTION B-B

NOTE:  
 SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION.  
 HAY BALES NOT ACCEPTABLE DURING THIS STAGE.



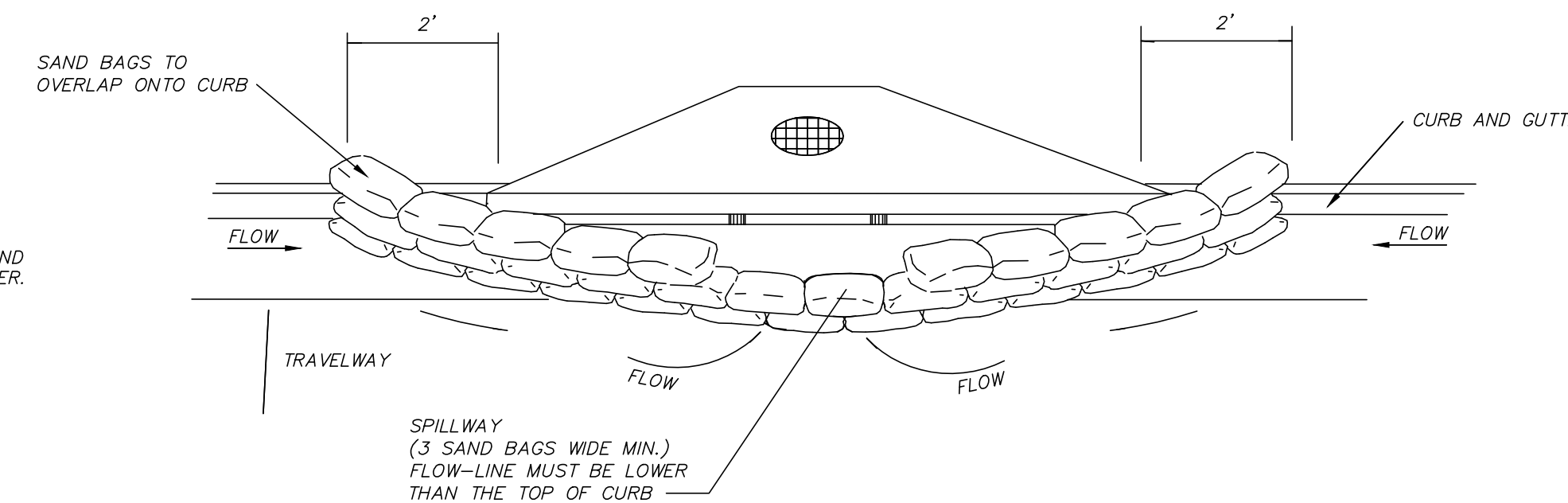
DROP INLET PROTECTION

- NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF THREE FEET.
  2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (1" MIN., 3" MAX.).
  3. TRENCHING OF WATTLES MAY BE NECESSARY IF PIPING BECOMES EVIDENT.

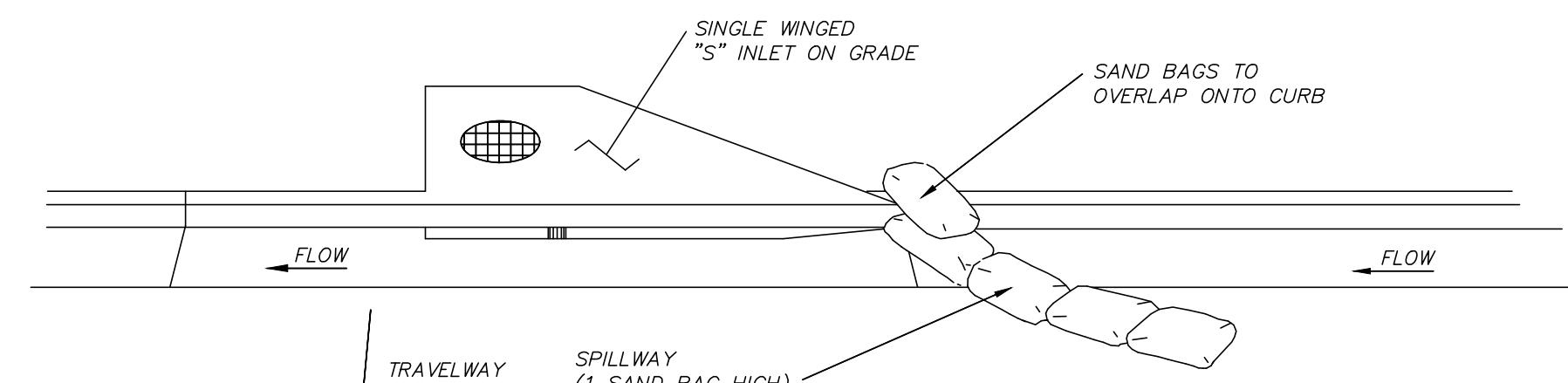


SECTION A-A

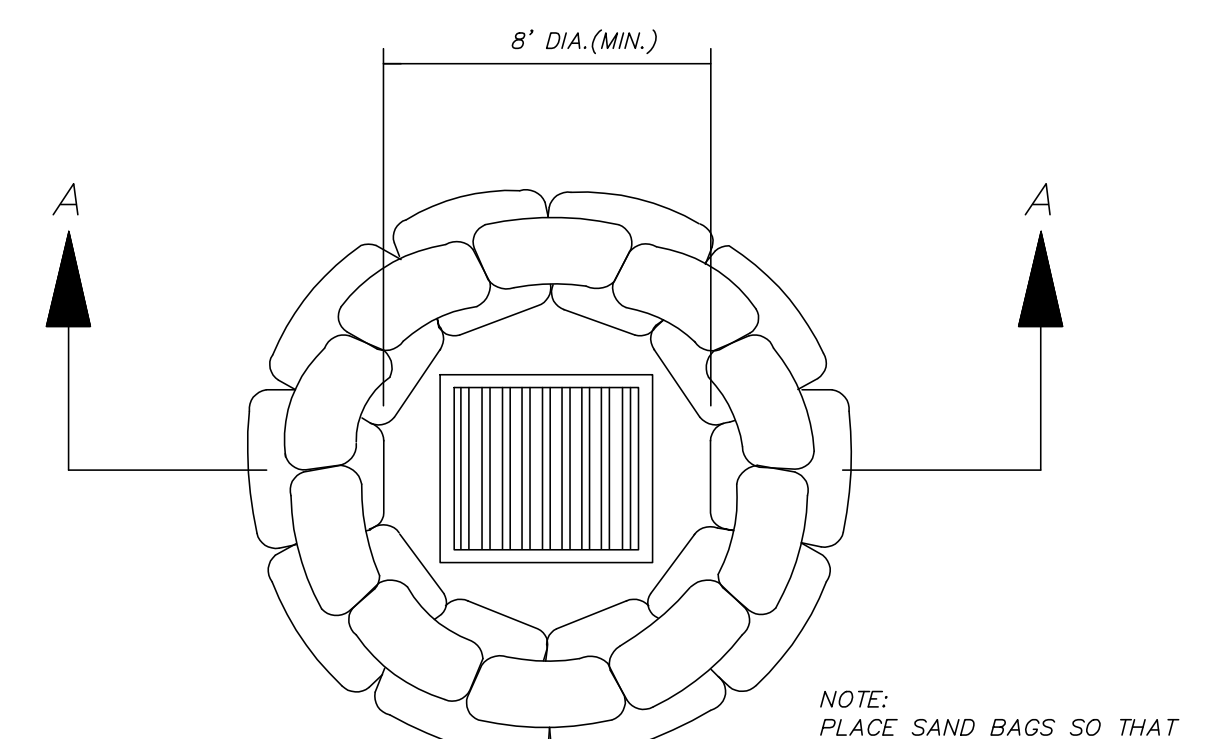
WATTLE INLET PROTECTION



TYPICAL (SAND BAG) PROTECTION FOR INLET IN SAG

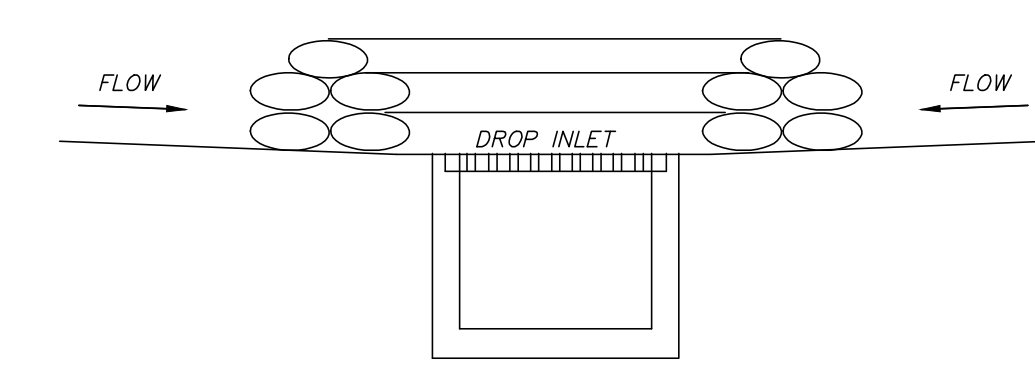


TYPICAL (SAND BAG) PROTECTION FOR INLET ON GRADE

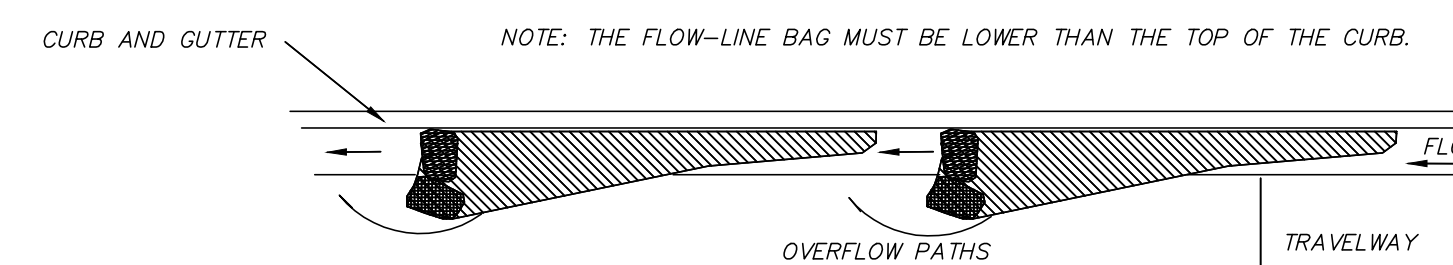


DROP INLET  
 PLAN VIEW

NOTE:  
 PLACE SAND BAGS SO THAT NO GAPS ARE EVIDENT.  
 3 BAGS HIGH AND STAGGERED.  
 (80 BAGS MIN.)



SECTION A-A  
 SAND BAG BARRIER



CURB AND GUTTER SEDIMENT CONTAINMENT SYSTEM

- CURB INLET PROTECTION NOTES:
1. THIS CURB INLET PROTECTION METHOD CAN BE USED DURING ANY STAGE OF BASE AND PAVEMENT CONSTRUCTION.
  2. BAG HEIGHT AND NUMBER OF BAGS SHOULD BE BASED ON CURB HEIGHT AND USE OF TRAVELWAY.
  3. SEDIMENT SHOULD BE CONTROLLED PRIOR TO ENTERING GUTTER. GUTTER CHECKS AND INLET PROTECTION ARE FOR SECONDARY CONTROL.
  4. REMOVE ACCUMULATED SEDIMENT AFTER EVERY RAINFALL. SWEEP SEDIMENT FROM HARD SURFACES AND DISPOSE OF APPROPRIATELY AWAY FROM INLETS AND/OR WATER BODIES.
  5. IF DENuded AREAS EXIST BEHIND THE INLET, A SEDIMENT BARRIER SHOULD BE INSTALLED AROUND IT'S PERIMETER TO CONTROL SEDIMENT.

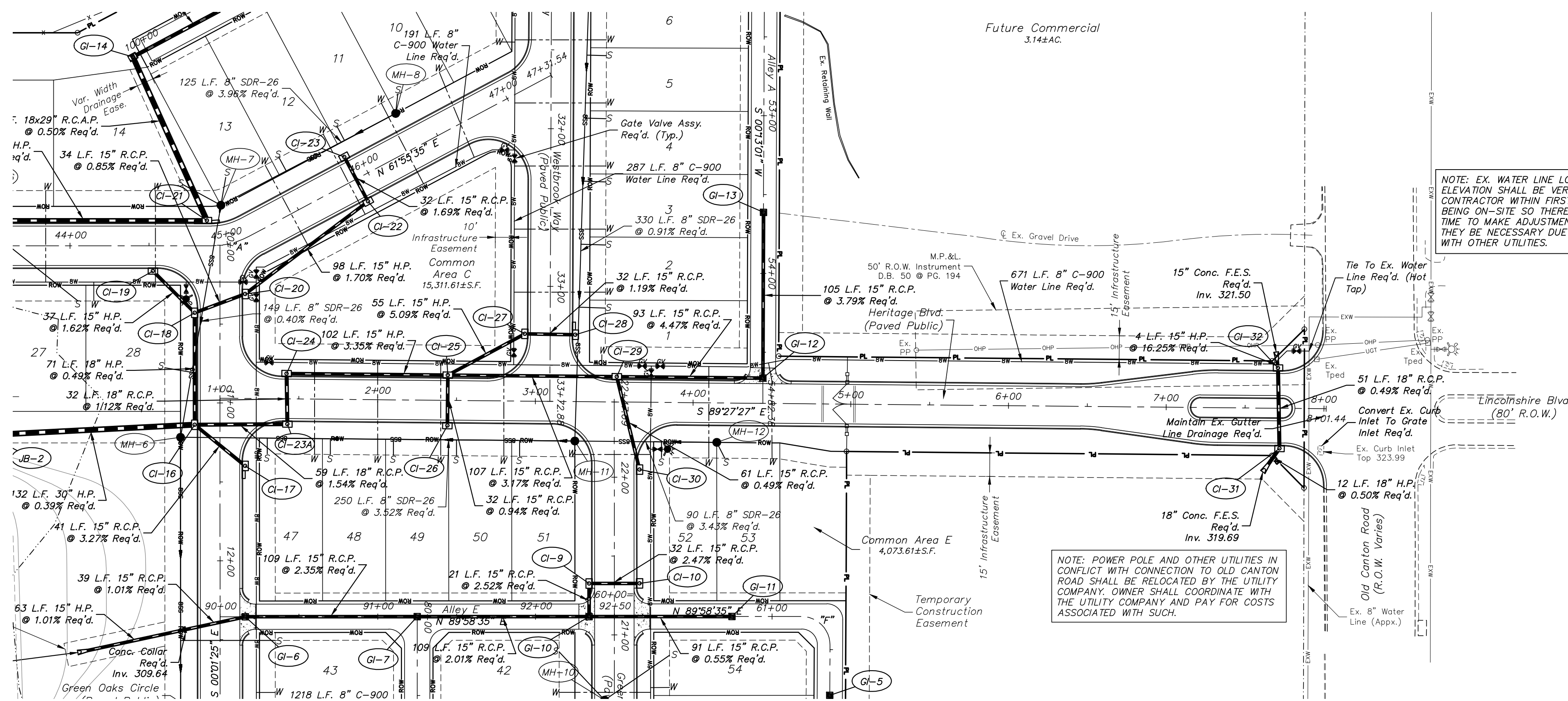
SAND BAG INLET PROTECTION

DATE: 07/25/22	DRAWN: JHB	REVISIONS:
CHECKED: GAB	SCALE:	
REF C/L:	EC SURFACE:	
	FG SURFACE:	

PROJECT LOCATION:  
 OLD CANTON ROAD  
 RIDGELAND, MS 39157  
 CLIENT:  
 SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST. JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**  
 SHEET CONTENTS:  
**EROSION CONTROL DETAILS**

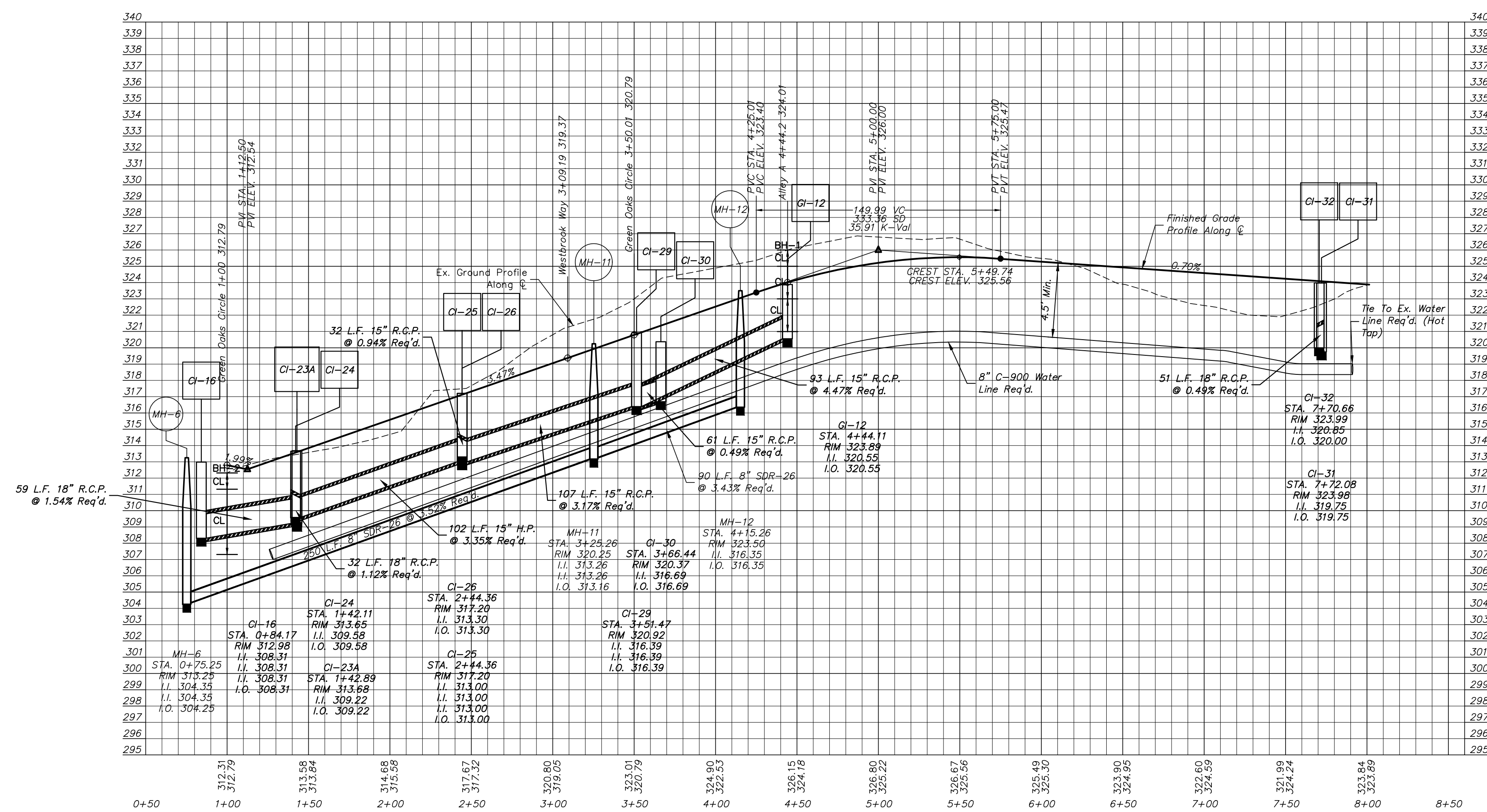




NOTE: EX. WATER LINE LOCATION AND ELEVATION SHALL BE VERIFIED BY CONTRACTOR WITHIN FIRST WEEK OF BEING ON-SITE SO THERE IS ADEQUATE TIME TO MAKE ADJUSTMENTS SHOULD THEY BE NECESSARY DUE TO CONFLICTS WITH OTHER UTILITIES.

NOTE: POWER POLE AND OTHER UTILITIES IN CONFLICT WITH CONNECTION TO OLD CANTON ROAD SHALL BE RELOCATED BY THE UTILITY COMPANY. OWNER SHALL COORDINATE WITH THE UTILITY COMPANY AND PAY FOR COSTS ASSOCIATED WITH SUCH.

PLAN VIEW SCALE:  
1" = 50'



PROFILE SCALES:  
HORIZ. 1" = 50'  
VERT. 1" = 5'

**BENCHMARK**  
ENGINEERING & SURVEYING, LLC  
101 Highpoint Court, Suite B  
Birmingham, AL 35202  
800-158-1077  
601-487-7800

REVISIONS:

DATE: 07/25/22	DRAWN: JHB
CHECKED: GAB	SCALE: 1"=50'
REF: C/L	EC SURFACE:
	FG SURFACE:

PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157

CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST., JACKSON, MS 39201

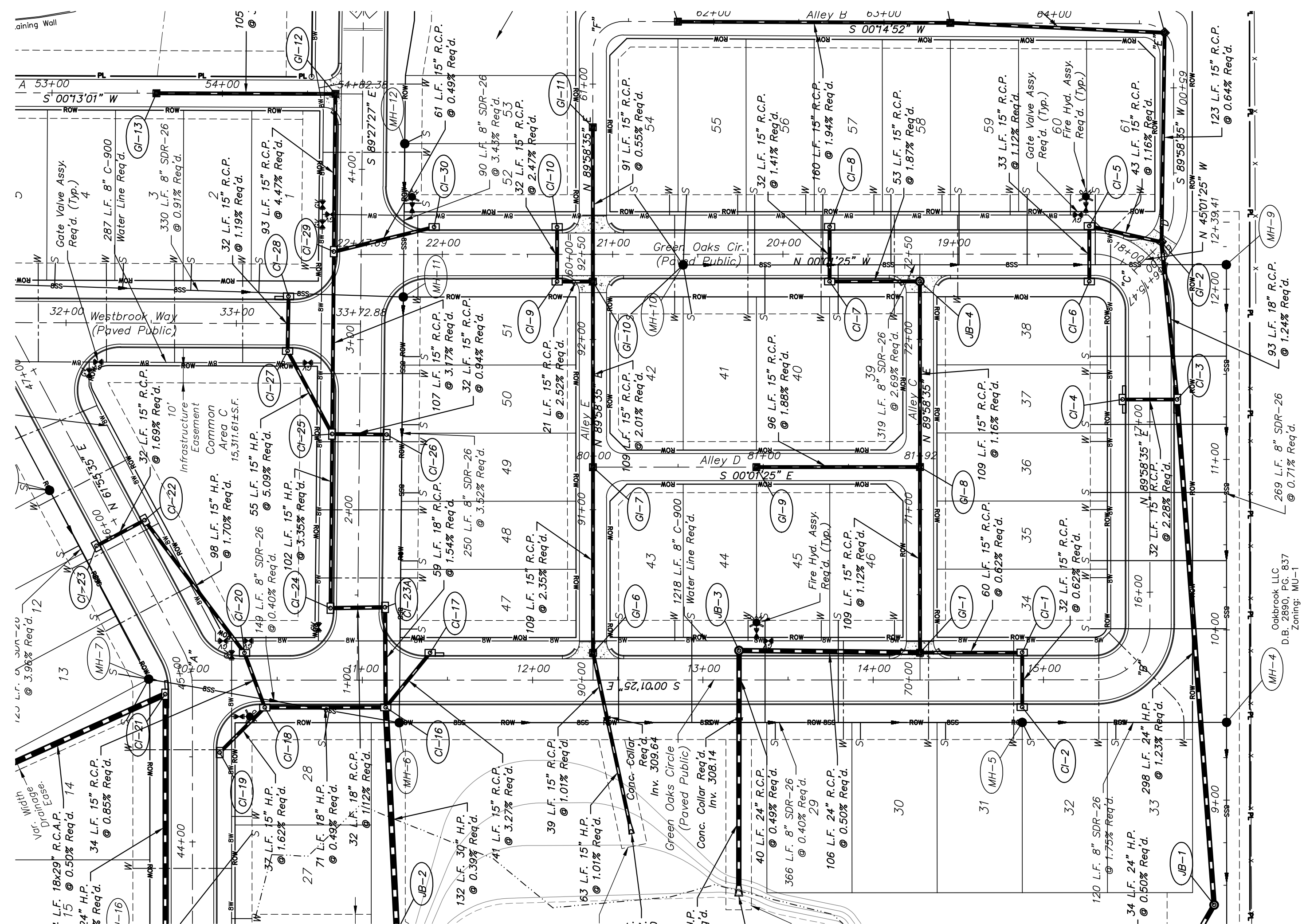
PROJECT:  
**THE HERITAGE AT JACOBS FARM**

SHEET CONTENTS:  
**PLAN/PROFILE - HERITAGE BOULEVARD**

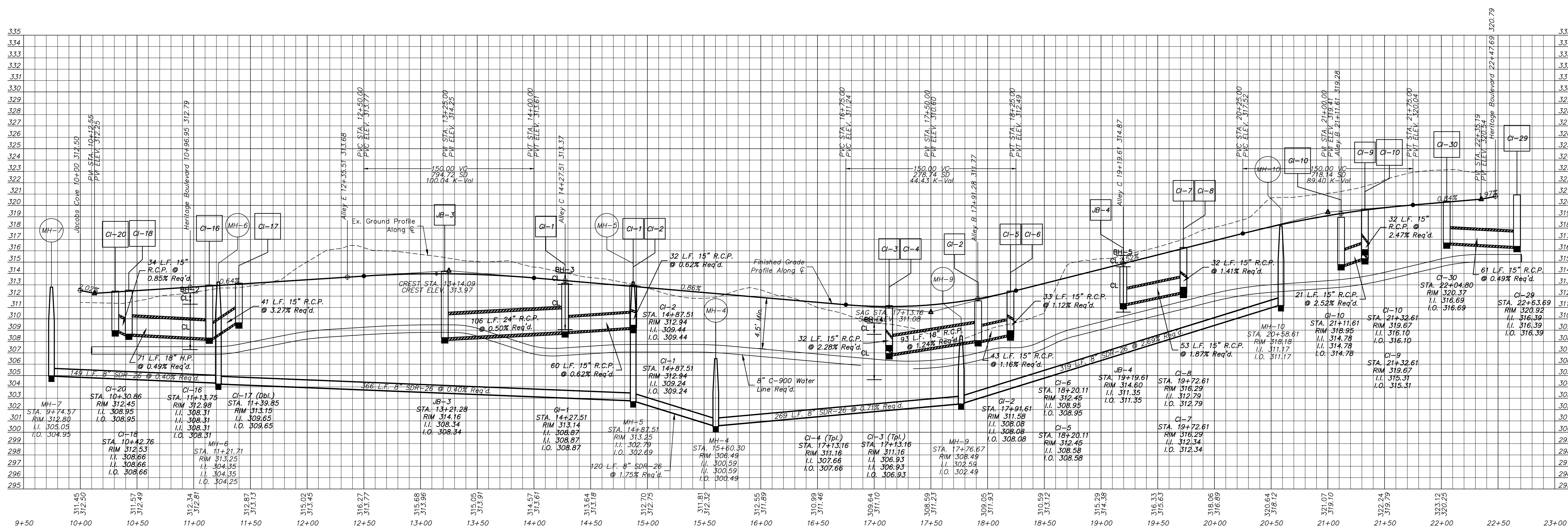
SHEET NUMBER  
**16 of 23**

PROJECT NUMBER  
**B-8337**



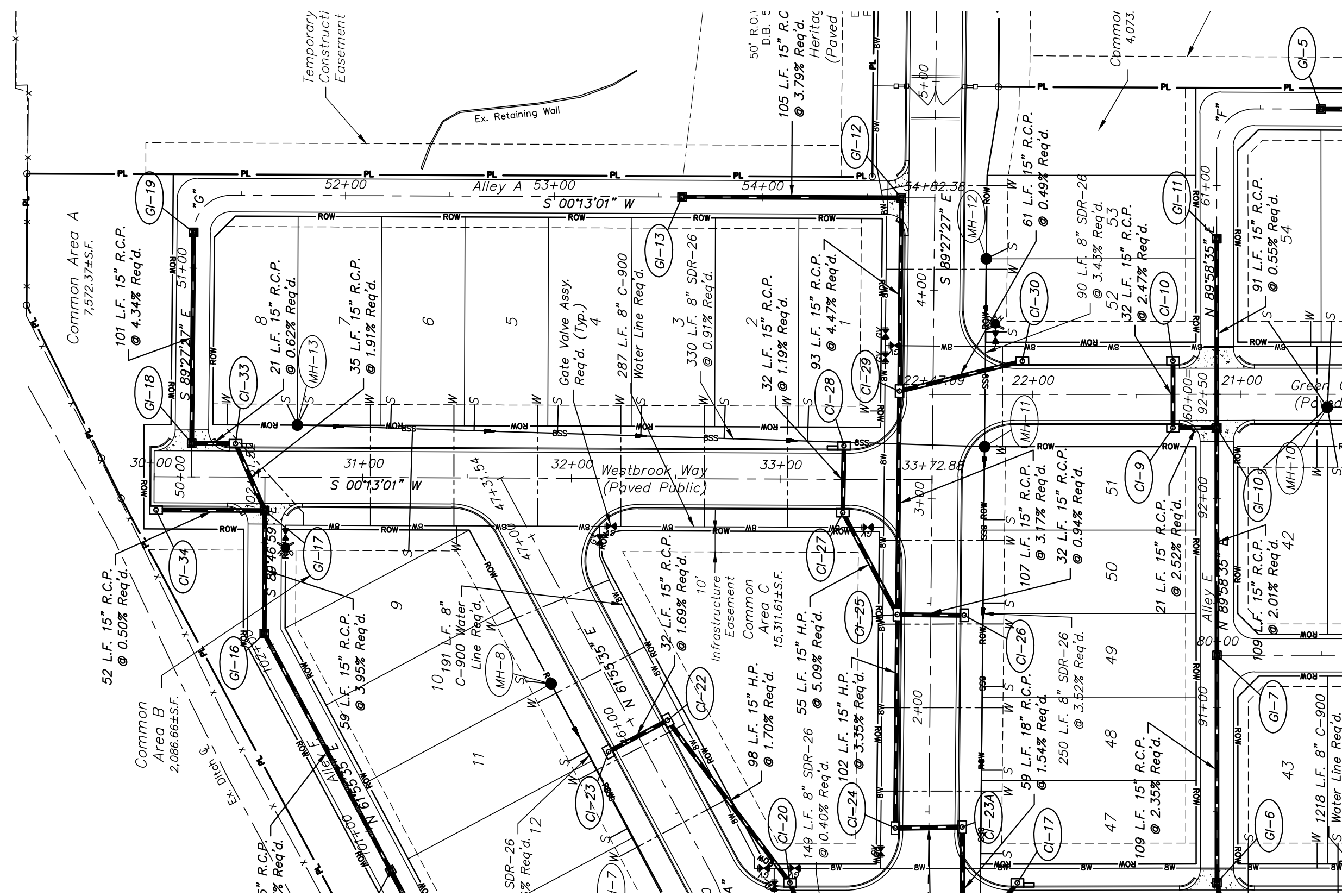


PLAN VIEW SCALE:  
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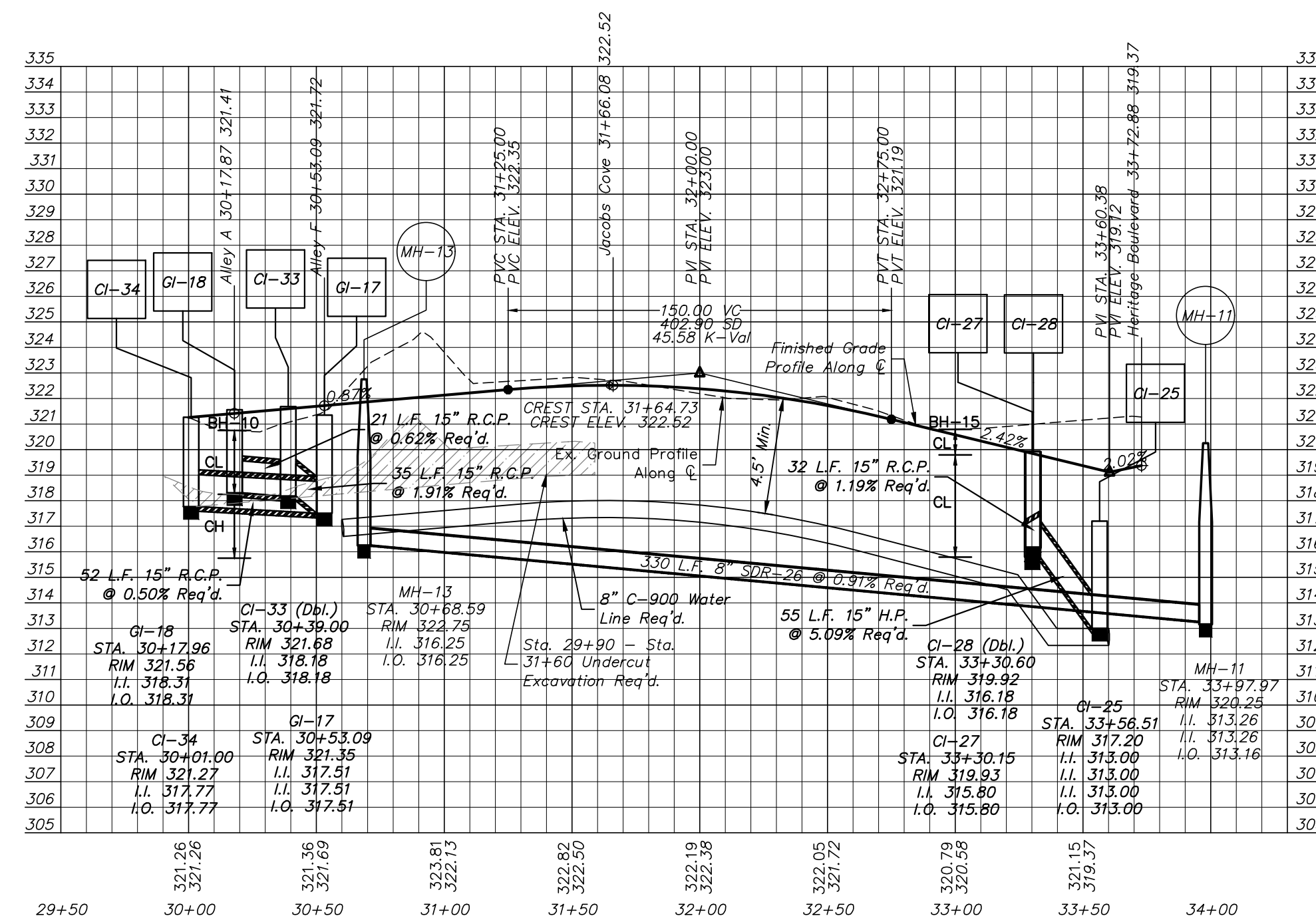


PROFILE SCALES:  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'





PLAN VIEW SCALE:  
1" = 50'



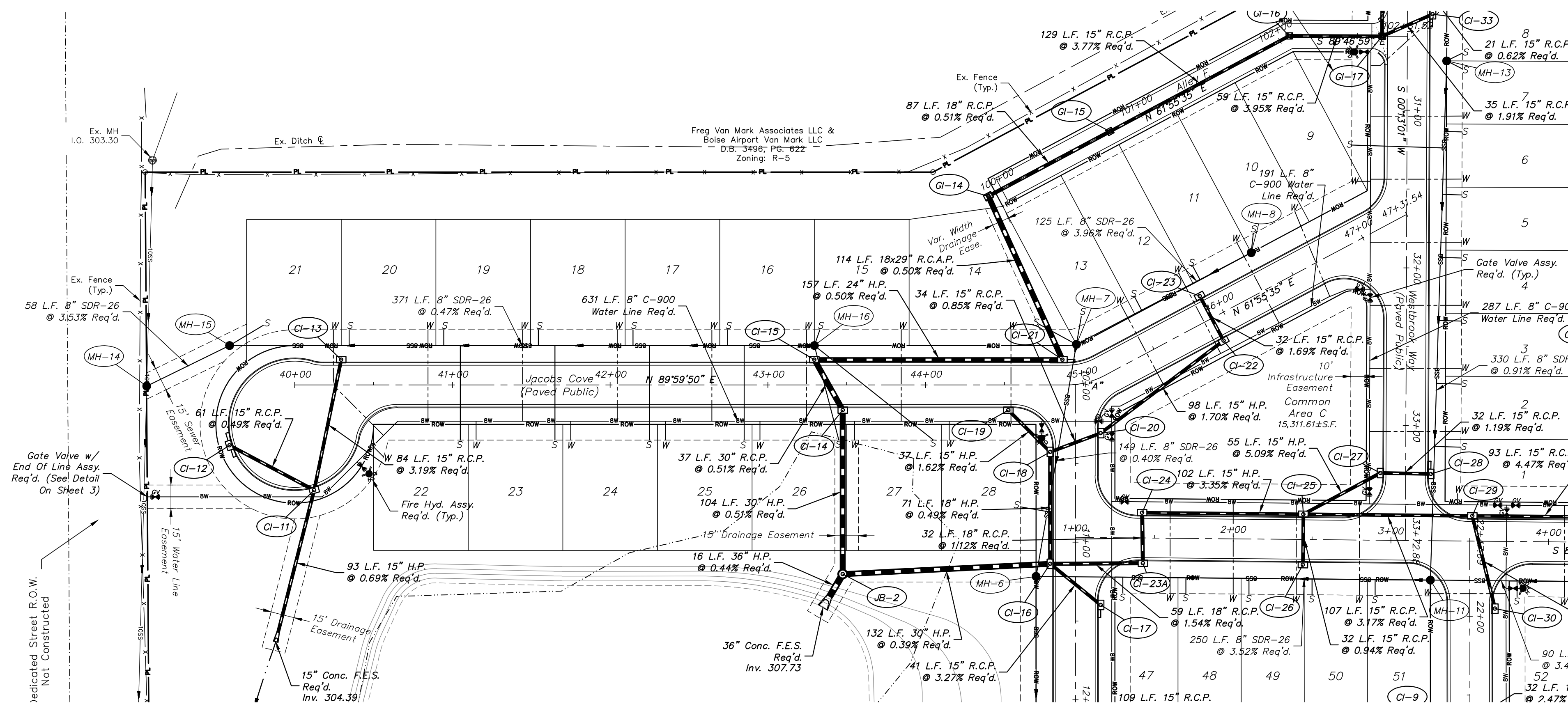
PROFILE SCALES:  
HORIZ. 1" = 50'  
VERT. 1" = 5'

DATE: 07/25/22	DRAWN: JHB	REVISIONS:
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REF C/L:	EC SURFACE:	
	FG SURFACE:	

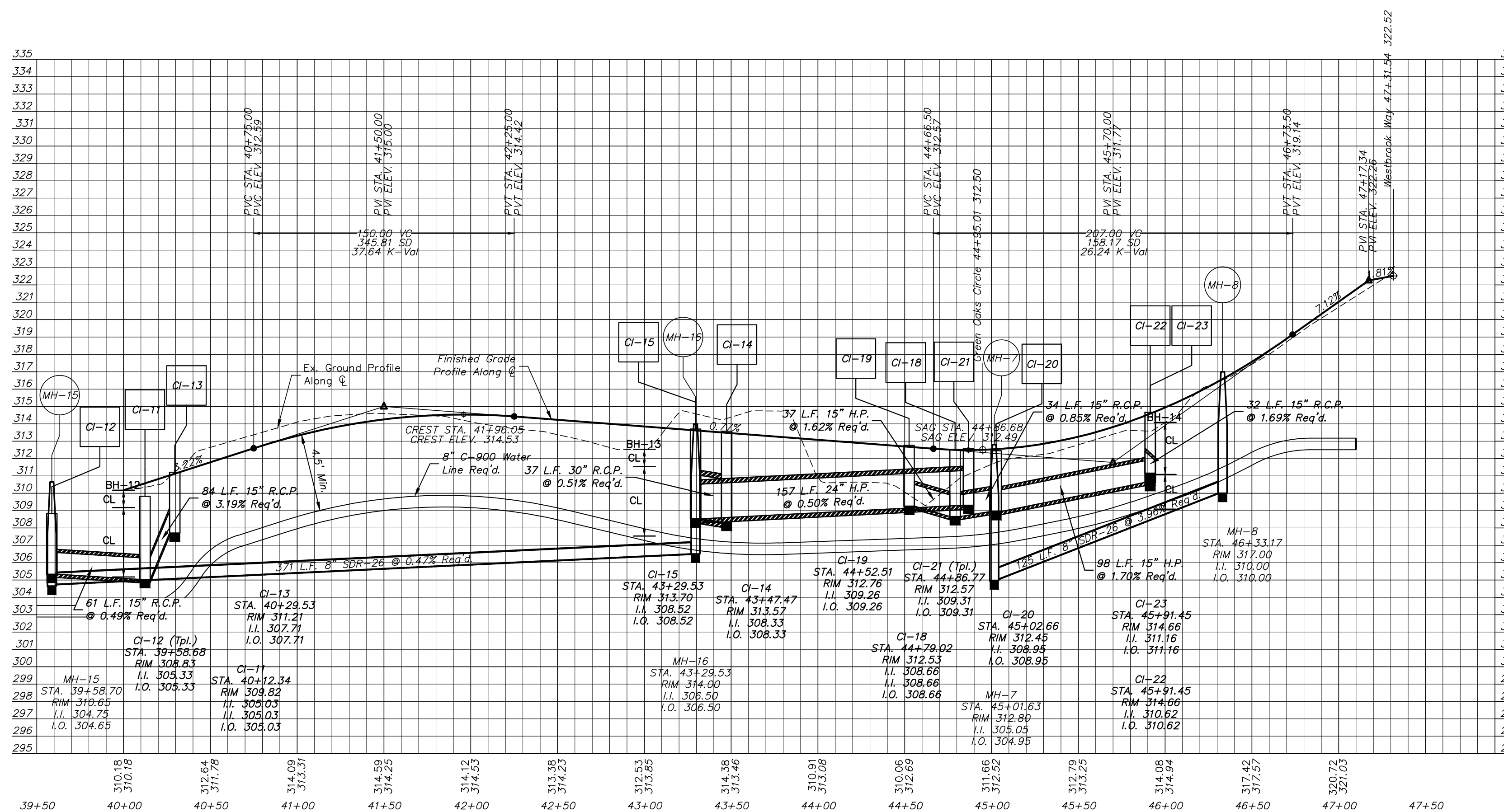
PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157  
CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST., JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**  
SHEET CONTENTS:  
**PLAN/PROFILE - WESTBROOK WAY**





PLAN VIEW SCALE:  
1" = 50'



PROFILE SCALES:  
HORIZ. 1" = 50'  
VERT. 1" = 5'

REVISIONS:

DATE	BY	DESCRIPTION
07/25/22	JHB	DRAWN
	GAB	CHECKED
		SCALE: 1"=50'
		REF C/L:
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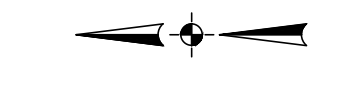
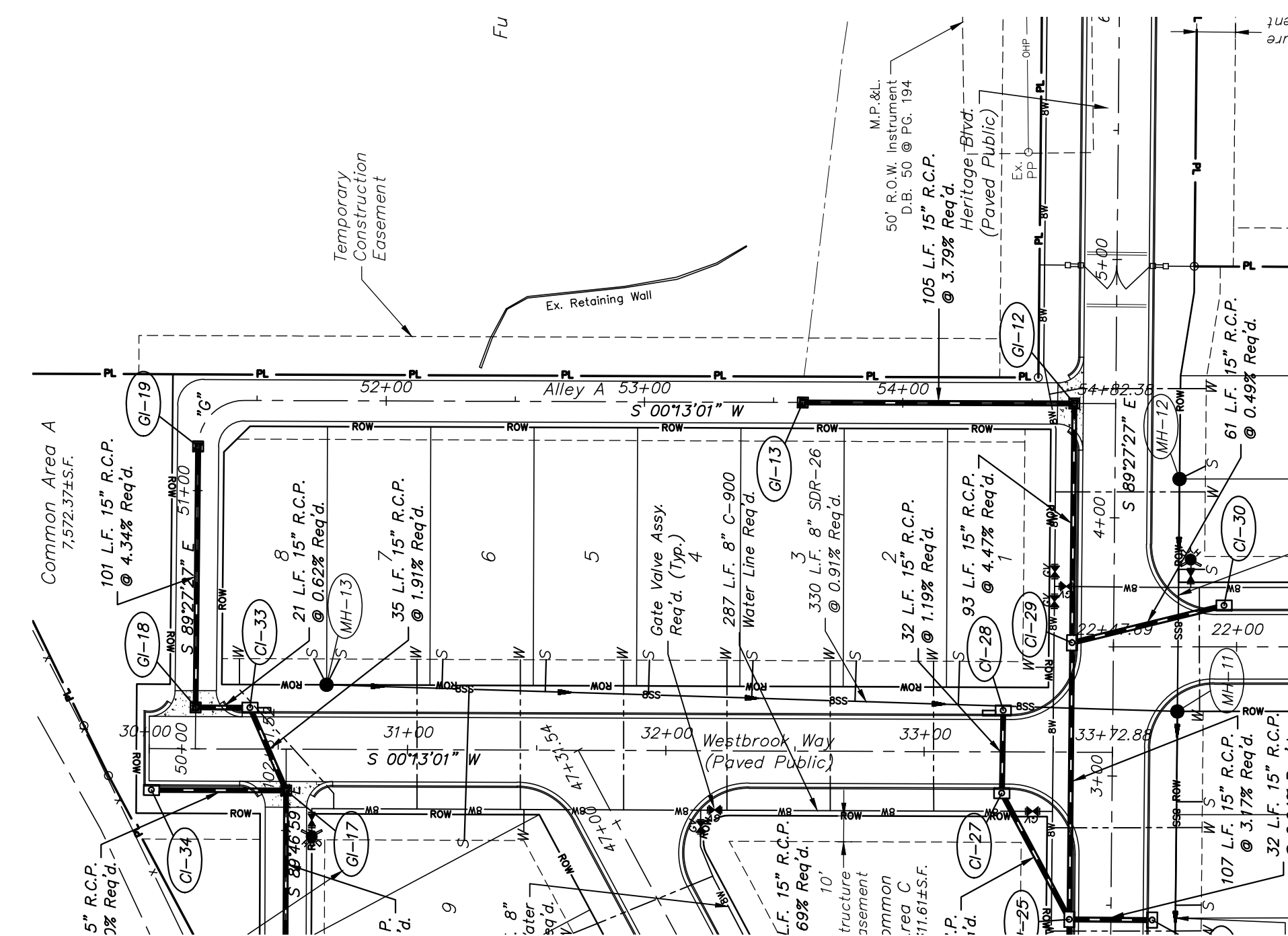
PROJECT LOCATION:  
 OLD CANTON ROAD  
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CLIENT:  
 SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST., JACKSON, MS 39201

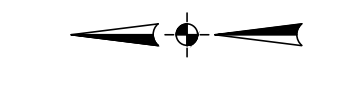
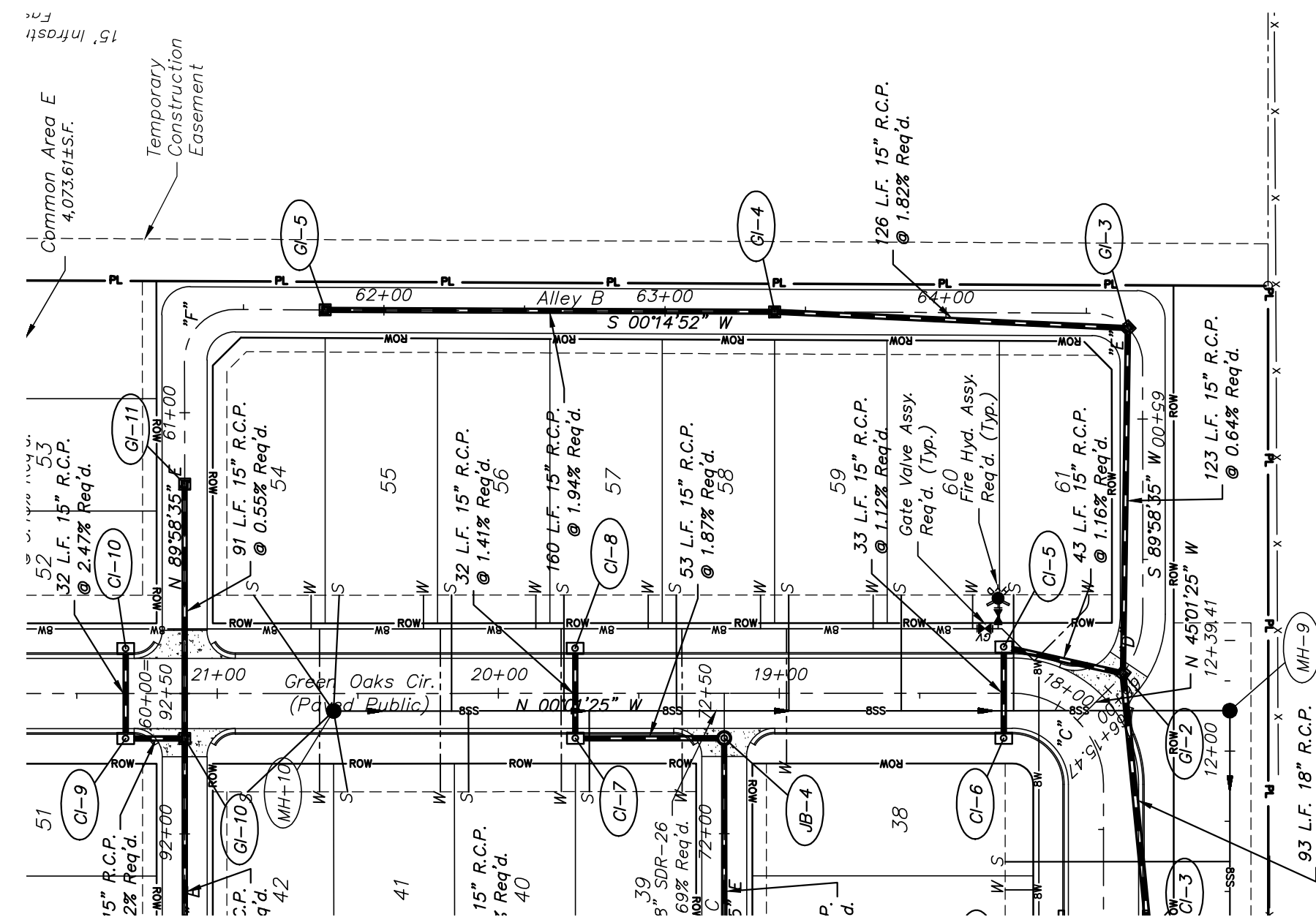
PROJECT:  
**THE HERITAGE AT JACOBS FARM**

SHEET CONTENTS:  
**PLAN/PROFILE - JACOBS COVE**

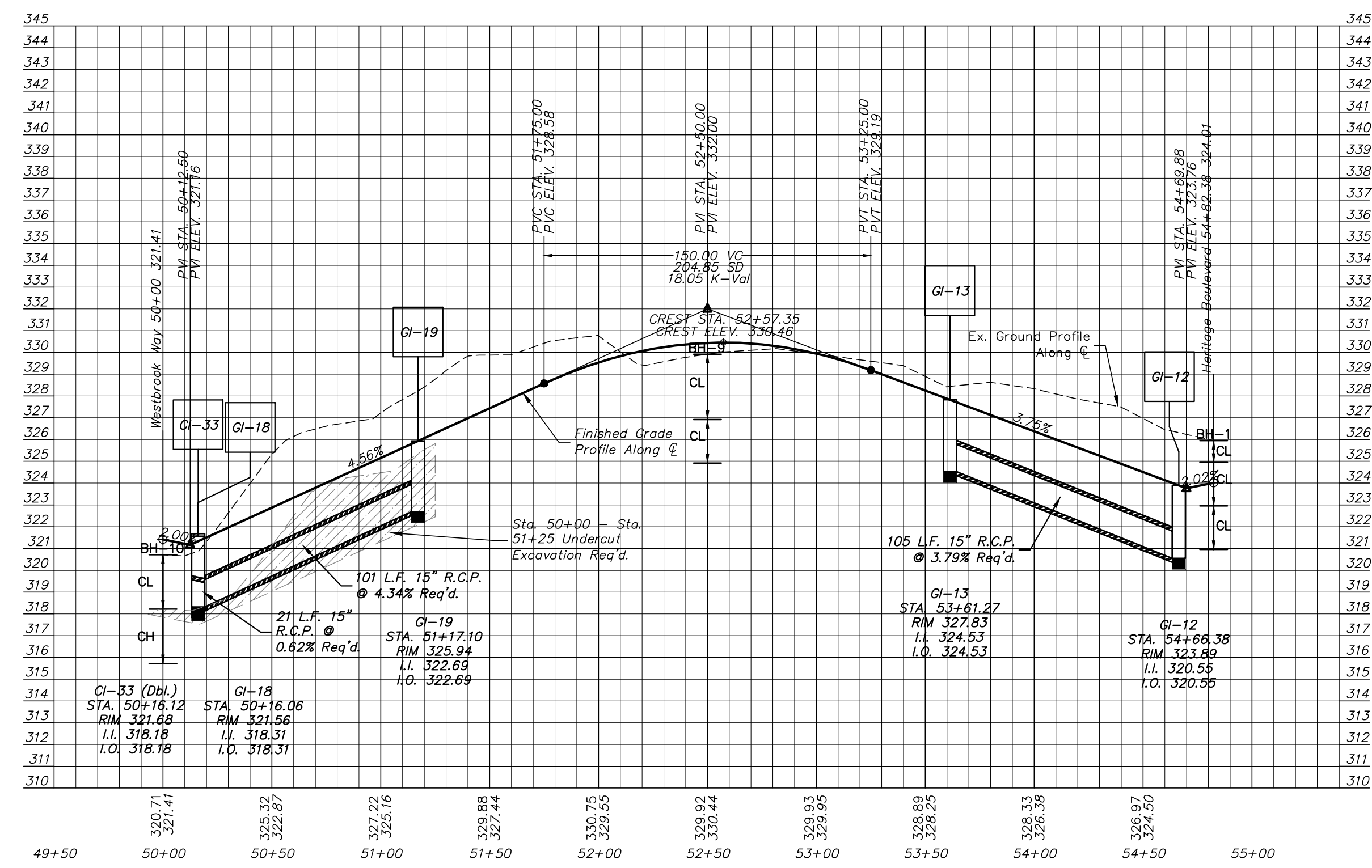




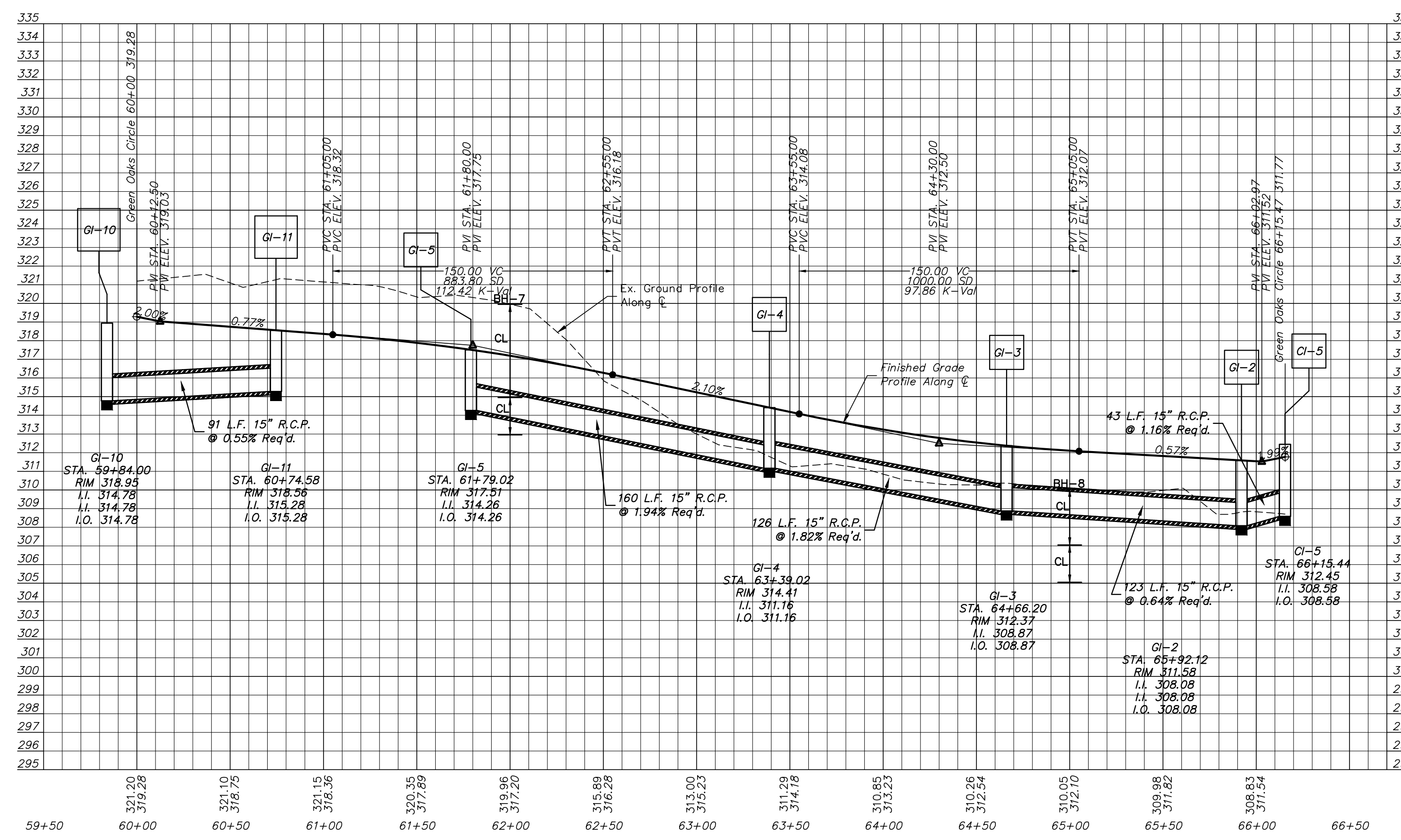
PLAN VIEW SCALE:  
1" = 50'



PLAN VIEW SCALE:  
1" = 50'



PROFILE SCALES:  
HORIZ. 1" = 50'  
VERT. 1" = 5'



PROFILE SCALES:  
HORIZ. 1" = 50'  
VERT. 1" = 5'

REVISIONS:

DATE	BY	DESCRIPTION
07/25/22	JHB	DRAWN
	GAB	CHECKED
		SCALE: 1"=50'
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		EG SURFACE:
		FG SURFACE:

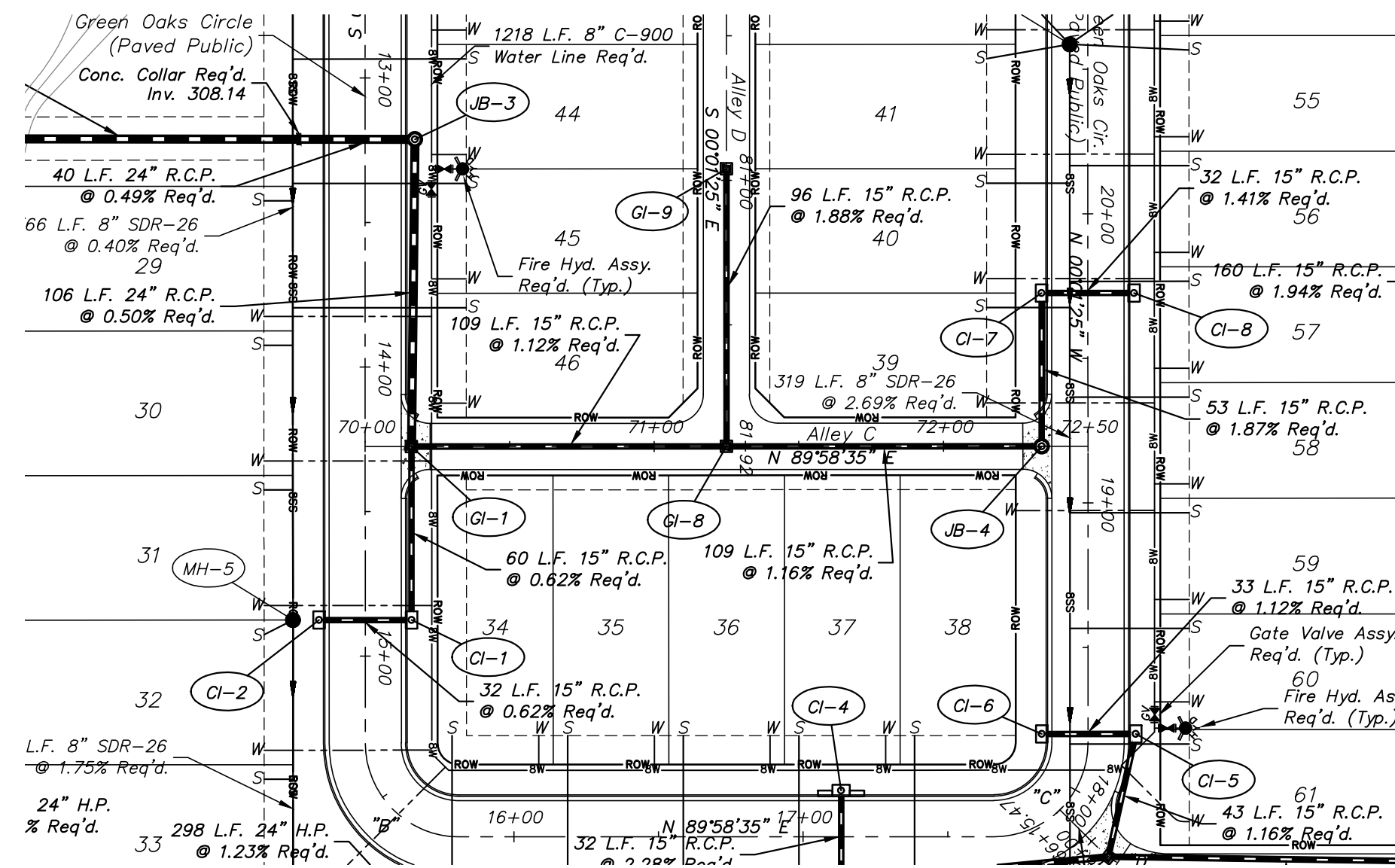
PROJECT LOCATION:  
OLD CANTON ROAD  
RIDGELAND, MS 39157

CLIENT:  
SELECT EDGE REALTY, LLC  
277 EAST PEARL ST., JACKSON, MS 39201

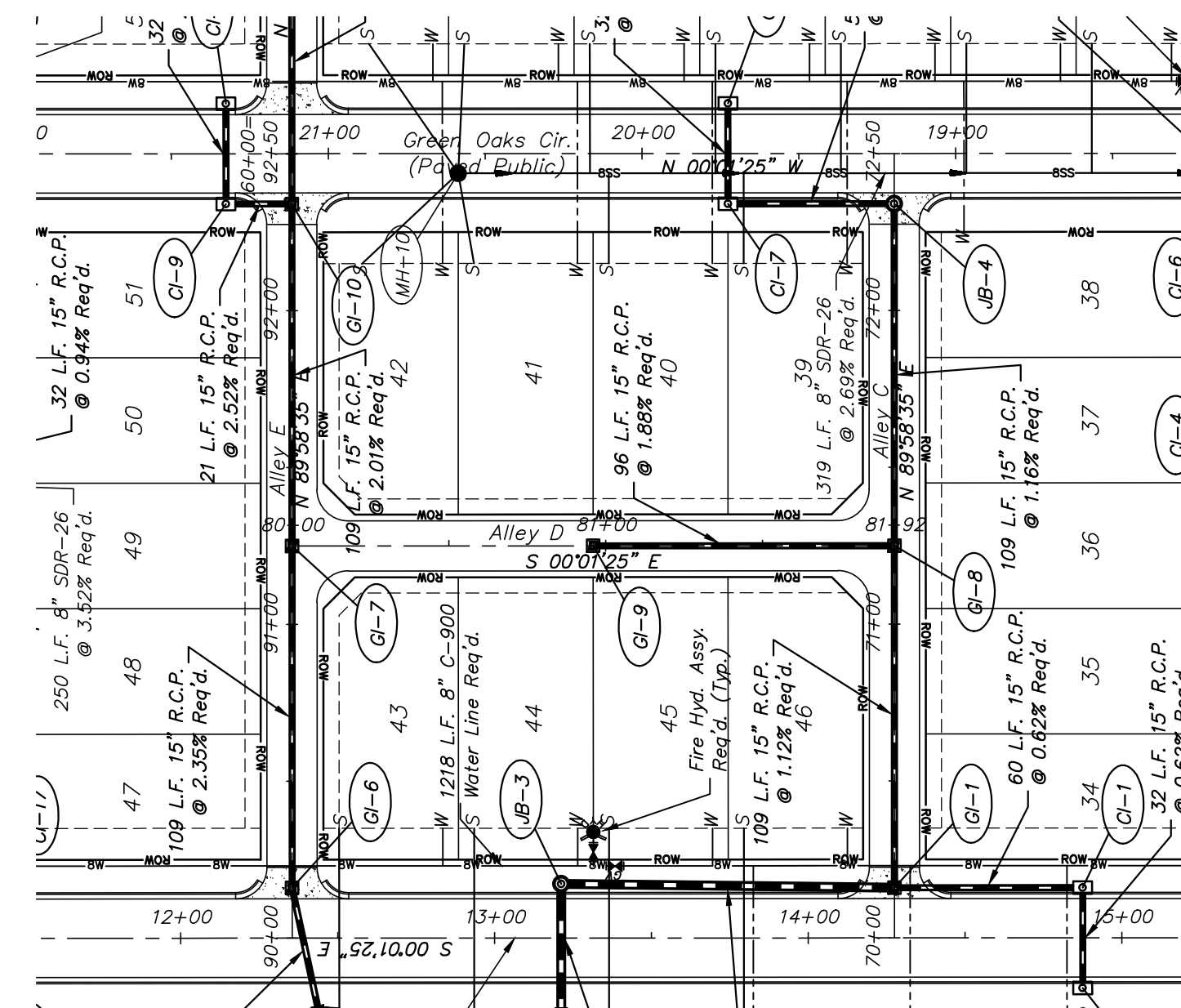
PROJECT:  
**THE HERITAGE AT JACOBS FARM**

SHEET CONTENTS:  
**PLAN/PROFILE - ALLEY A & ALLEY B**

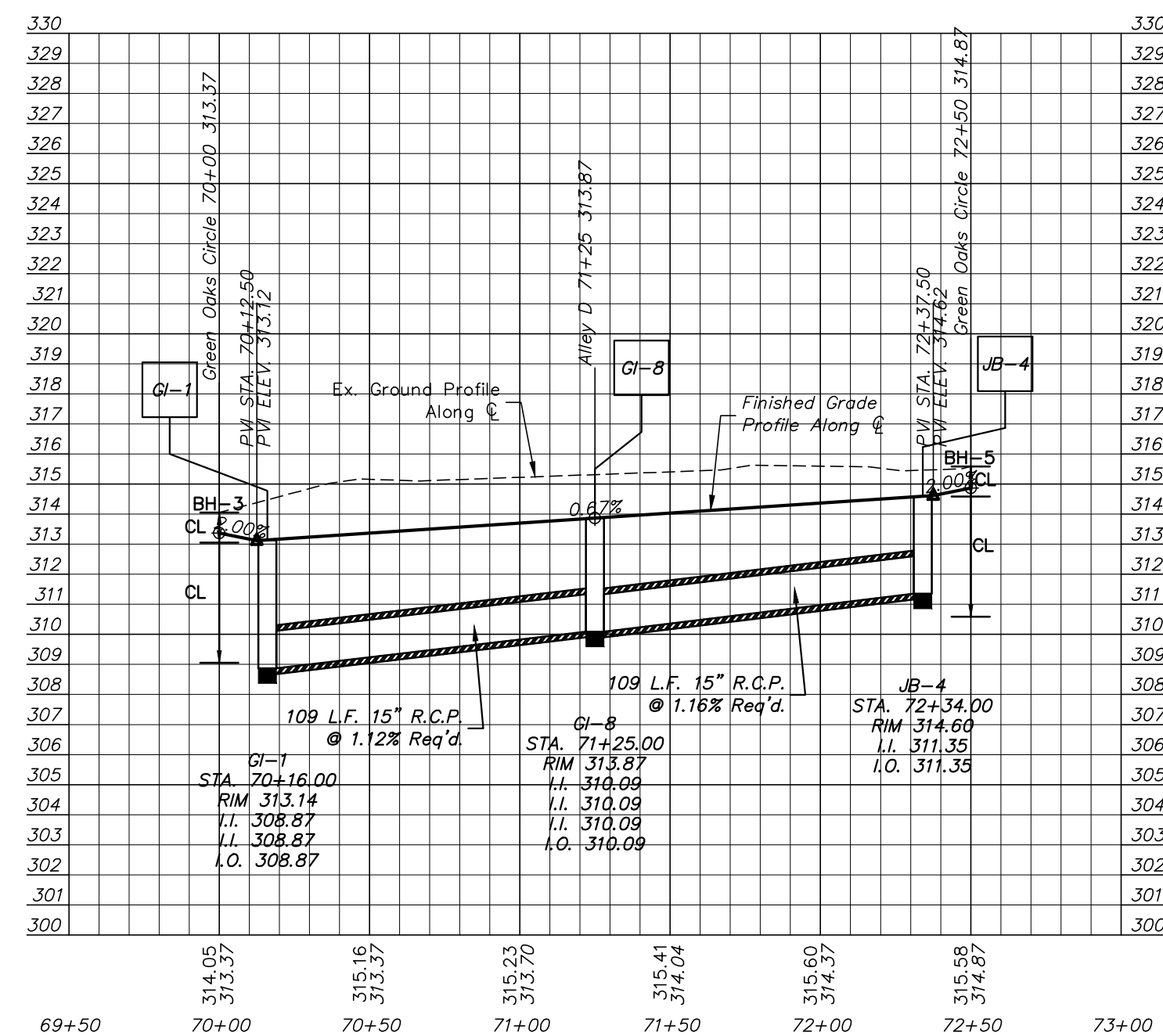




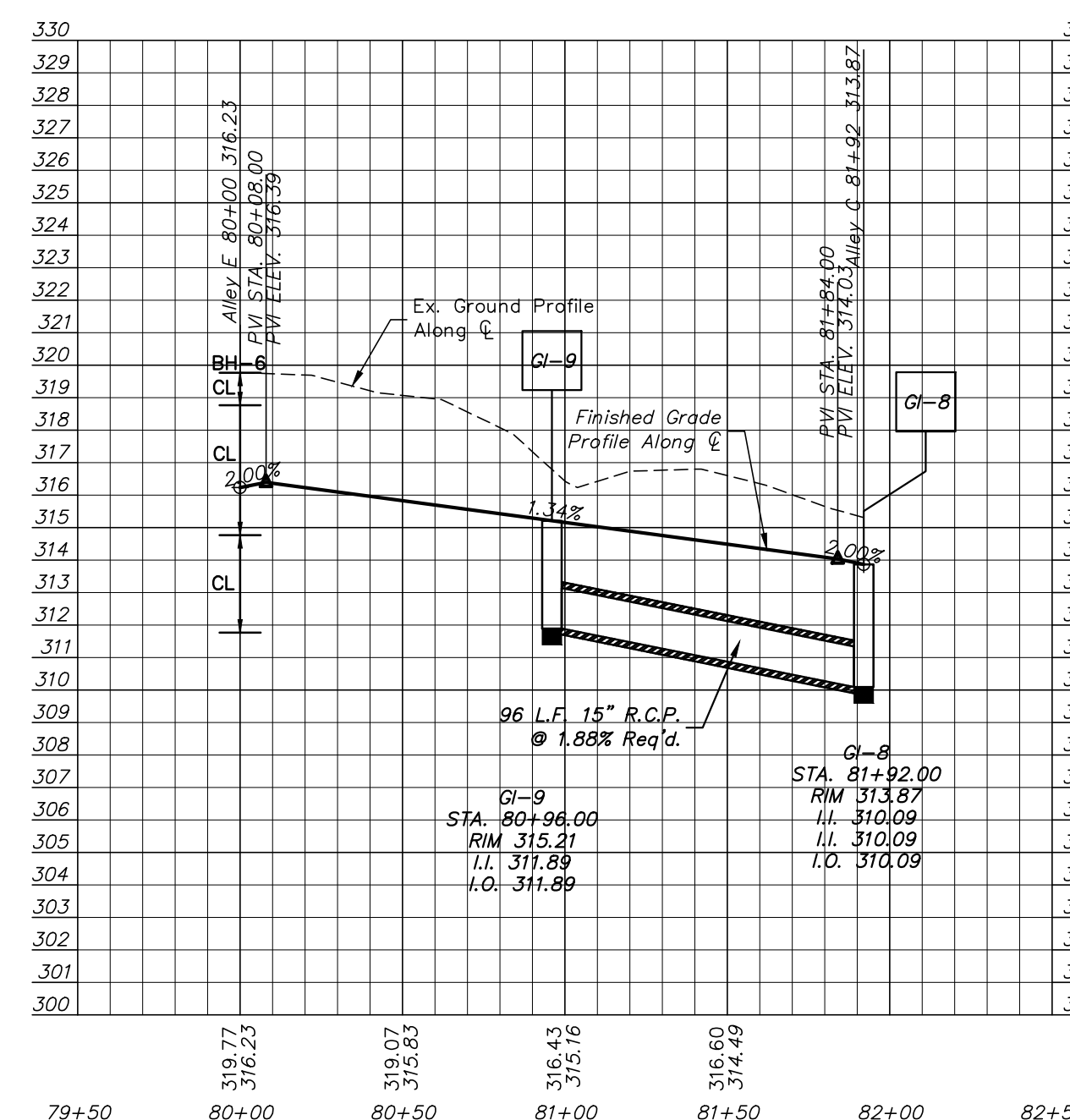
PLAN VIEW SCALE:  
 1" = 50'



PLAN VIEW SCALE:  
 1" = 50'



PROFILE SCALES:  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'



PROFILE SCALES:  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'

REVISIONS:

DATE: 07/25/22	DRAWN: JHB
CHECKED: GAB	SCALE: 1"=50'
REF C/L:	EG SURFACE:
	FG SURFACE:

PROJECT LOCATION:  
 OLD CANTON ROAD  
 RIDGELAND, MS 39157  
 CLIENT:  
 SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST., JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**  
 SHEET CONTENTS:  
**PLAN/PROFILE - ALLEY C & ALLEY D**



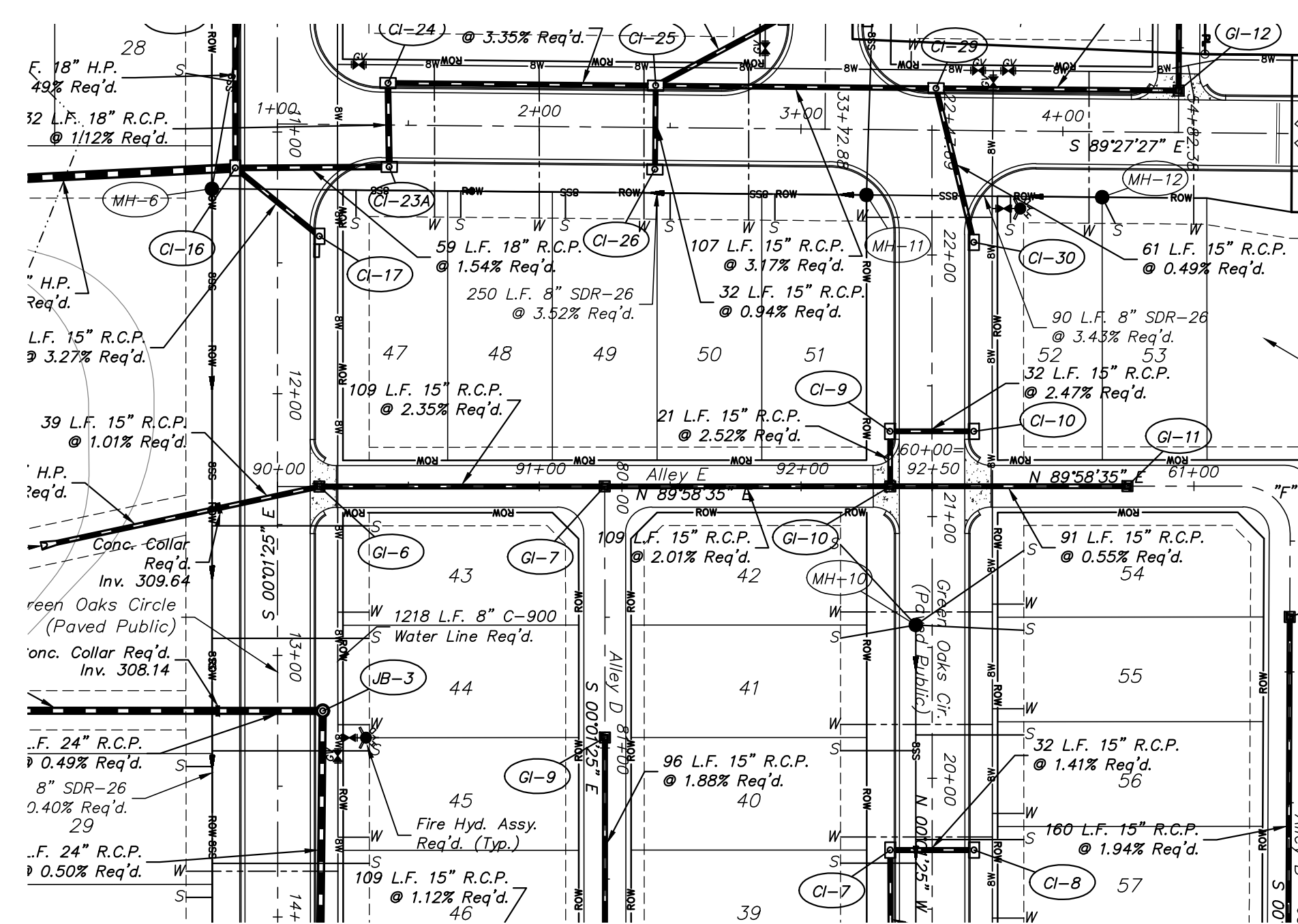
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	FG SURFACE:

PROJECT LOCATION:  
 OLD CANTON ROAD  
 RIDGELAND, MS 39157

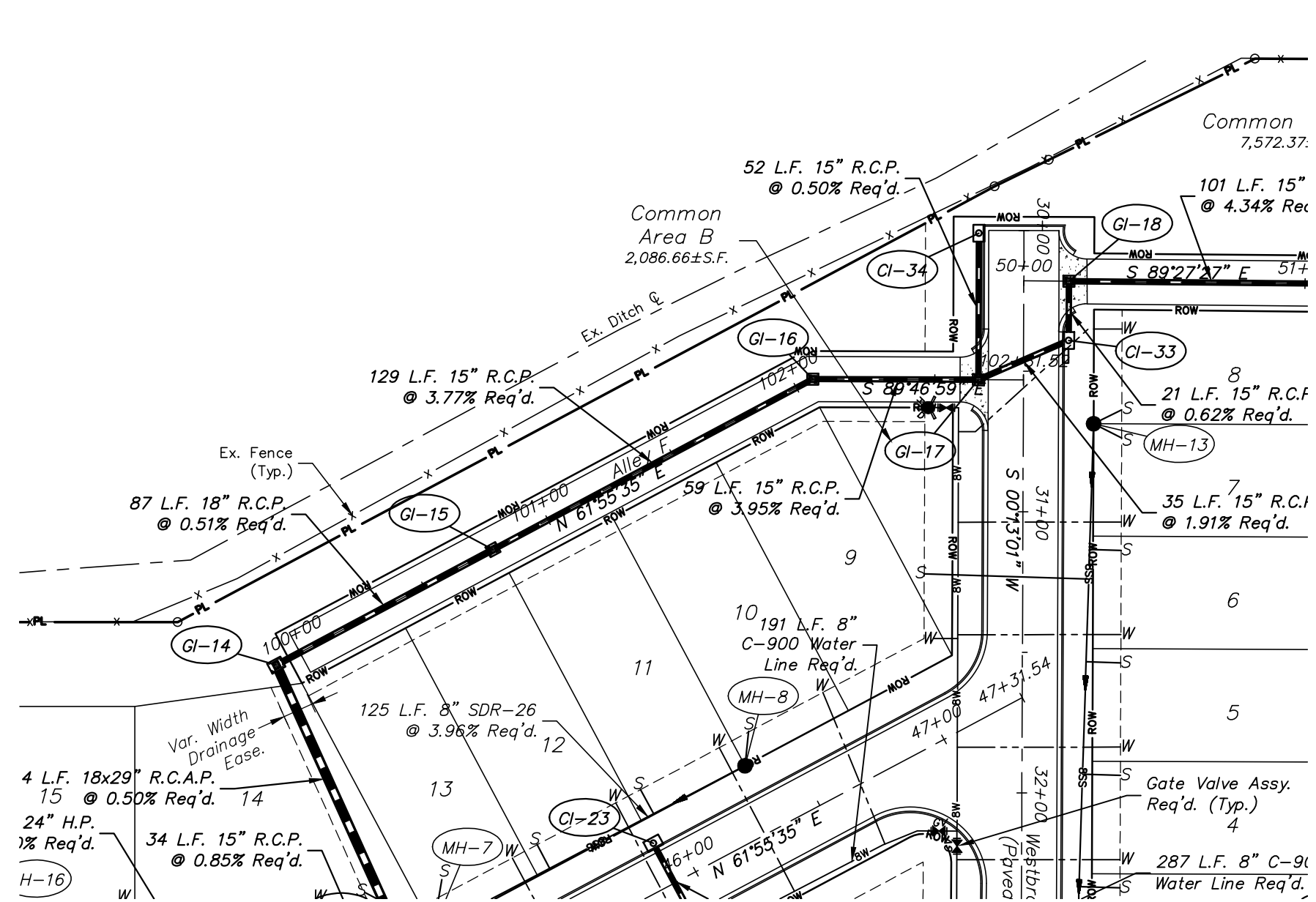
CLIENT:  
 SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST., JACKSON, MS 39201

PROJECT:  
**THE HERITAGE AT JACOBS FARM**

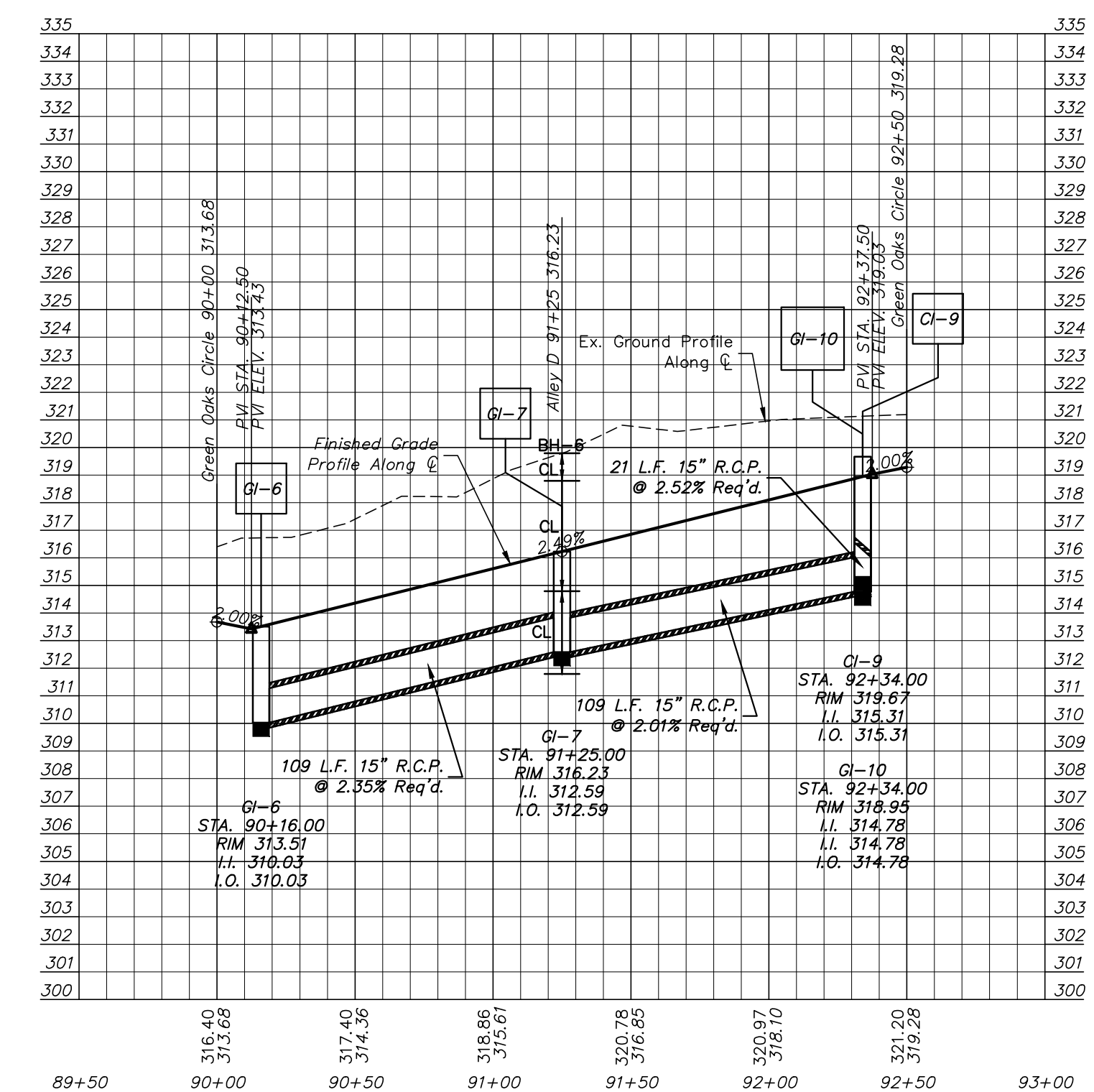
SHEET CONTENTS:  
**PLAN/PROFILE - ALLEY E & ALLEY F**



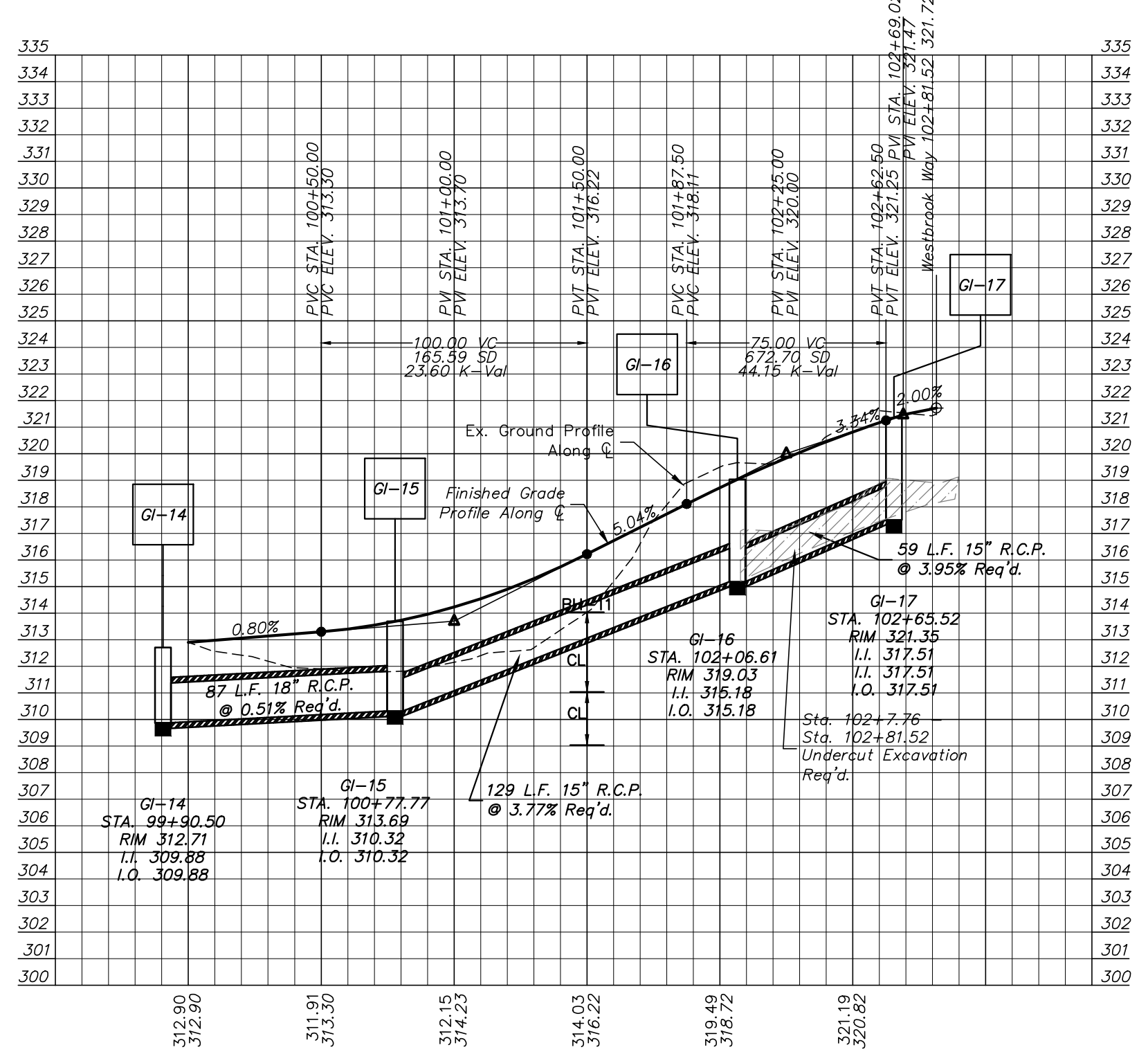
PLAN VIEW SCALE:  
 1" = 50'



PLAN VIEW SCALE:  
 1" = 50'

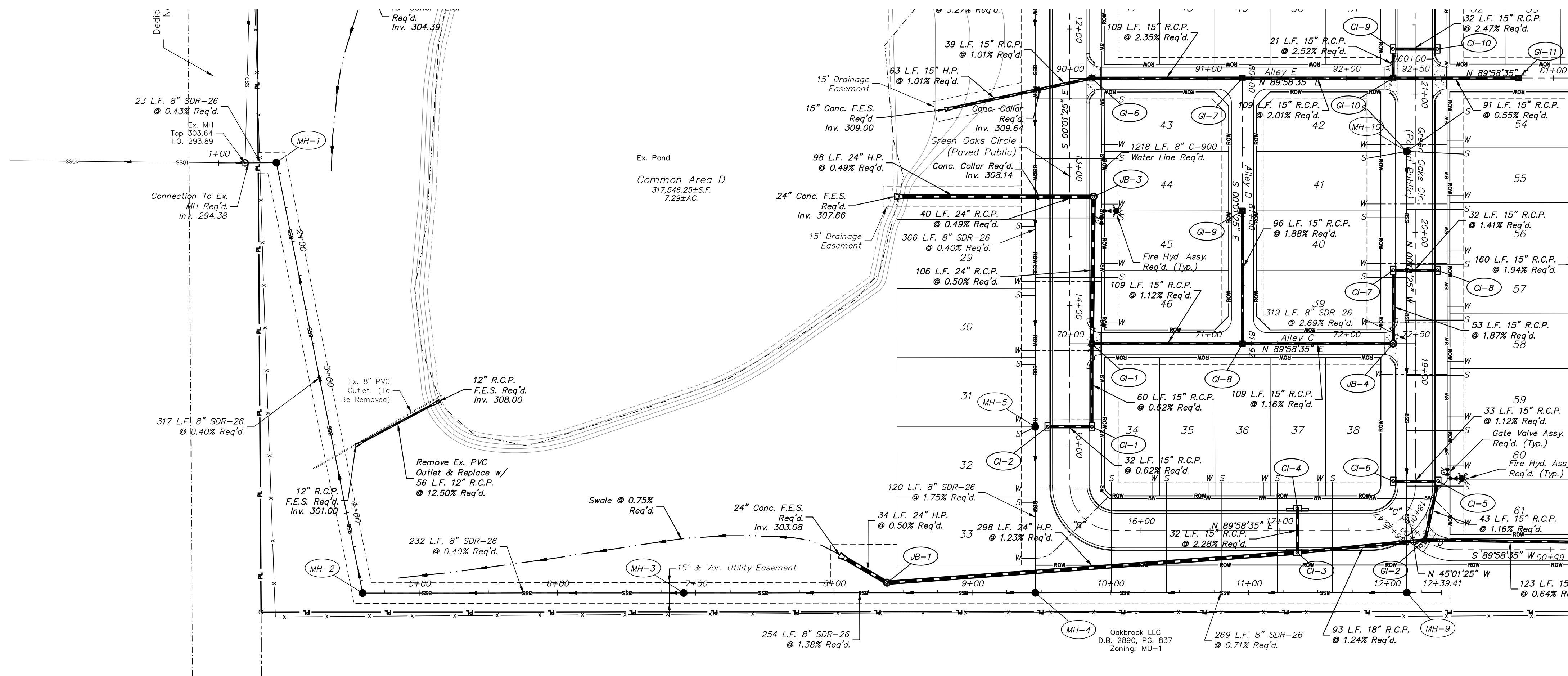


PROFILE SCALES:  
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 VERT. 1" = 5'

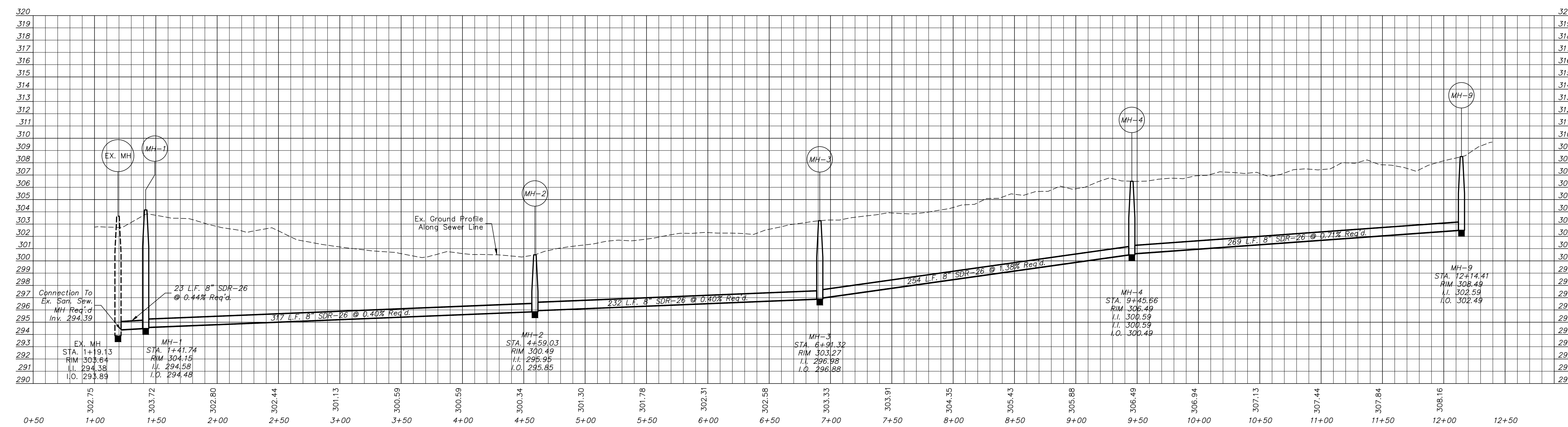


PROFILE SCALES:  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'





PLAN VIEW SCALE:  
 1" = 50'



PROFILE SCALES:  
 HORIZ. 1" = 50'  
 VERT. 1" = 5'

REVISIONS:

DATE	BY	DESCRIPTION
07/25/22	JHB	DRAWN
	GAB	CHECKED

SCALE: 1" = 50'

PROJECT LOCATION:  
 OLD CANTON ROAD  
 RIDGELAND, MS 39157

CLIENT:  
 SELECT EDGE REALTY, LLC  
 277 EAST PEARL ST., JACKSON, MS 39201

PROJECT: THE HERITAGE AT JACOBS FARM  
 SHEET CONTENTS: PLAN/PROFILE - SANITARY SEWER MH-1 - MH-9