AREA MAP

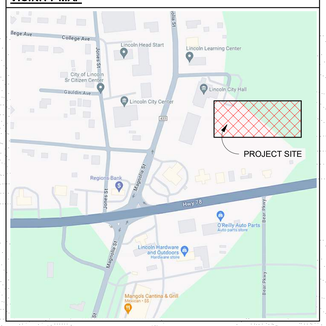
LOCATION MAP
NOT TO SCALE

A NEW CITY OF LINCOLN POLICE DEPARTMENT

LINCOLN ALABAMA

BWA PROJECT # 24001
BID DOCUMENTS
MARCH 31ST, 2025

VICINITY MAP



APPLICABLE CODES

- 2021 INTERNATIONAL BUILDING CODE
- 2021 INTERNATIONAL EXISTING BUILDING CODE
- 2021 INTERNATIONAL PLUMBING CODE
- 2021 INTERNATIONAL FUEL GAS CODE
- 2021 INTERNATIONAL MECHANICAL CODE
- 2020 NATIONAL ELECTRICAL CODE (NFPA 70)
- 2021 INTERNATIONAL FIRE CODE
- ANSI/ASHRAE/IES STANDARD 90.1-2013 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- 2020 ICC/NSSA-500 STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS
- 2019 NATIONAL FIRE ALARM AND SIGNALING CODE (NFPA 72)

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ISSUE:
3.31.25 BID

JOB NO.
24001

DESCRIPTION:
TITLE SHEET

SHEET
T1.0

STATE OF ALABAMA
WILLIAM WHITTAKER
6524
REGISTERED ARCHITECT

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GENERAL NOTES

GENERAL

1. THE SPECIFICATIONS ARE A VITAL PART OF THE PROJECT DOCUMENTS. THE NOTES THAT FOLLOW BY DIVISION ARE FOR CLARIFICATION AND CONSIDERED PART OF THE CONSTRUCTION CONTRACT REQUIREMENTS AND IN PART OF AND IN ADDITION TO THE PROJECT SPECIFICATIONS.
2. PRIOR TO START OF CONSTRUCTION, THE CONTRACTOR SHALL READ AND BE FULLY VERSED WITH GENERAL CONDITIONS WHICH ARE PART OF THE CONSTRUCTION CONTRACT.
3. THE ARCHITECT IS NOT RESPONSIBLE FOR PROJECT SAFETY AND WILL NOT ASSUME THAT RESPONSIBILITY, BUT MAY NOTIFY THE CONTRACTOR TO OBVIOUS UNSAFE CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR SAFETY STANDARDS AND PRACTICES DURING THE EXECUTION OF THE WORK.
4. CLARIFICATION OF DEFINITIONS: UNLESS OTHERWISE NOTED:
   - 4.A. ALIGN: PROVIDE FINISH FACES OF MATERIALS IN STRAIGHT, TRUE, AND PLUMB RELATION TO ADJACENT MATERIALS
   - 4.B. AS REQUIRED: PROVIDE THE SPECIFIED COMPONENTS TO COMPLETE THE NOTED SYSTEMS.
   - 4.C. SIMILAR: PROVIDE COMPLETE COMPONENTS FOR THE SYSTEM INDICATED THAT ARE COMPARABLE TO THE CHARACTERISTICS FOR THE CONDITION NOTED.
   - 4.D. TYPICAL: INDICATES COMPLETE IDENTICAL SYSTEM SHALL BE PROVIDED FOR EACH OCCURRENCE OF THE CONDITION NOTED.

5. **THE GENERAL CONTRACTOR SHALL GUARANTEE THE ROOFING AND ASSOCIATED WORK INCLUDING BUT NOT LIMITED TO ALL FLASHING AND COUNTER FLASHING BOTH COMPOSITION AND METAL, ROOF DECKING AND/OR SHEATHING; ALL MATERIALS USED AS A ROOF SUBSTRATE OR INSULATION OVER WHICH ROOF IS APPLIED; PROMENADE DECKS OR ANY OTHER WORK ON THE SURFACE OF THE ROOF; METAL WORK; GRAVEL STOPS AND ROOF EXPANSION JOINTS TO BE ABSOLUTELY WATERTIGHT AND FREE FROM ALL LEAKS, DUE TO FAULTY OR DEFECTIVE MATERIALS AND WORKMANSHIP FOR A PERIOD OF FIVE (5) YEARS, STARTING ON THE DATE OF SUBSTANTIAL COMPLETION OF THE PROJECT, TO THE SAME STANDARD AS STATE OF ALABAMA DCM FORM C-9. LITIGATION CLAUSE MUST SPECIFY TO BE IN THE STATE OF ALABAMA**

DIVISION 1

1. THE TERM OF CONTRACTOR IN THESE NOTES REFERS TO THE CONTRACTOR WHO HAS THE PRIME CONTRACT. THE CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN THE CONSTRUCTION DOCUMENTS. THE TERM CONSTRUCTION DOCUMENTS REFERS TO DRAWINGS AND SPECIFICATIONS.
2. REFERENCES TO WORK BY SUBCONTRACTORS IN THE CONSTRUCTION DOCUMENTS DO NOT RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR THE WORK. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND ASSIGNING OF WORK TO THE VARIOUS TRADES.
3. ALL WORK BY THE CONTRACTOR, SUBCONTRACTORS, AND SEPARATE CONTRACTORS EMPLOYED BY THE OWNER ARE TO BE COORDINATED AND SHOWN ON THE CONSTRUCTION SCHEDULE.
4. COORDINATION AND REVIEW OF TRADES AND THEIR REQUIREMENTS IS PART OF THE CONTRACTORS RESPONSIBILITY. IF CONFLICTS ARE FOUND THE CONTRACTOR IS TO NOTIFY THE ARCHITECT IMMEDIATELY PRIOR TO PROCEEDING WITH THE WORK.
5. IF DISCREPANCIES ARE FOUND BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, THE OBVIOUS CORRECT INTENT SHALL GOVERN. REFER ALL OTHER UNCERTAINTIES TO THE ARCHITECT IMMEDIATELY. IF DISCREPANCIES RESULT IN A MORE EXPENSIVE REQUIREMENT AND THE G.C. DID NOT REQUEST CLARIFICATION DURING BID, IT WILL THEN BE REQUIRED THAT G.C. TO PROVIDE THE MOST COSTLY OF REQUIREMENTS. G.C. HAS A DUTY TO THOROUGHLY REVIEW DOCUMENTS DURING BID AND TO INCLUDE ALL COSTS NECESSARY TO PROVIDE ALL REQUIREMENTS FOR DESIGN INTENT.
6. REQUESTS FOR INFORMATION (RFI'S) SHALL BE USED EXCLUSIVELY TO SEEK CLARIFICATION OR INFORMATION. RFI'S MAY BE DISCARDED IF THE QUESTIONS CAN EASILY BE FOUND BY LOOKING IN THE CONSTRUCTION DOCUMENTS.
7. THE INTENT OF THE COMPLETED PROJECT IS MEET A MINIMUM STANDARD OF HEALTH, SAFETY, AND WELFARE OF THE PUBLIC. THEREFORE THE COMPLETED WORK IS TO MEET ALL LIFE SAFETY REQUIREMENTS, APPLICABLE CODES, ACCESSIBILITY REQUIREMENTS, RULES AND LAWS OF AUTHORITIES HAVING JURISDICTION. THE CONTRACTOR SHALL REPORT ANY AND ALL UNCERTAINTIES OR VIOLATIONS TO THE ARCHITECT FOR RESOLUTION.
8. THE DIVISION 1 SECTIONS OF THE PROJECT SPECIFICATIONS CONTAIN INFORMATION AND REQUIREMENTS APPLICABLE TO ALL SECTIONS IN THE PROJECT SPECIFICATIONS. ISSUING PARTIAL SETS OF CONSTRUCTION DOCUMENTS IS DISCOURAGED BY THE ARCHITECT AND THE OWNER. REGARDLESS OF THE SUBCONTRACTOR A COPY OF THE TABLE OF CONTENTS AND DIVISION ONE SHALL BE ISSUED TO THE THAT SUBCONTRACTOR.
9. THE CONTRACTOR SHALL PROVIDE TEMPORARY PARKING SPACES FOR THE ARCHITECT / ENGINEERS. CONTRACTOR TO KEEP READILY AVAILABLE A SET OF CONSTRUCTION DRAWINGS AND SPECIFICATIONS FOR USE DURING REGULAR SCHEDULED MEETINGS AND SITE VISITS BY ARCHITECT / ENGINEERS.
10. ALL PRODUCTS USED IN THE COMPLETION OF THE WORK SHALL BE NEW AND IN GOOD CONDITION UNLESS OTHERWISE NOTED.
11. UNLESS NOTED OTHERWISE, WARRANTIES SHALL NOT BEGIN UNTIL SYSTEMS ARE CERTIFIED TO BE OPERATIONAL REGARDLESS OF THE INSTALLATION DATE AND THE DATE FOR SUBSTANTIAL COMPLETION. (FOR EXAMPLE, IF THE OWNER IS FORCED TO OCCUPY THE BUILDING, AND SUBSTANTIAL COMPLETION IS GRANTED, IF A SYSTEM IS NOT FUNCTIONAL, THE BEGINNING WARRANTY DATE SHALL BE AS STATED ABOVE).
12. REGARDLESS OF THE AMOUNT, NO HAZARDOUS MATERIAL SHALL NOT BE INCORPORATED INTO THE WORK.
13. ARCHITECT SHALL BE INFORMED OF ANY MATERIAL CONTAINING MOLD. THAT MATERIAL SHALL BE REMOVED IMMEDIATELY FROM THE PROJECT WORK SITE.
14. ALL AIR AND MOISTURE PENETRATION INSPECTIONS AND TESTS SHALL BE COMPLETED PRIOR TO INSTALLATION OF ANY INTERIOR FINISH MATERIALS.
15. CONCRETE SLABS ON GRADE SHALL BE COMPLETED DRYING AND TESTED FOR ACCEPTABLE MOISTURE CONTENT PRIOR INSTALLATION OF FINISH FLOOR MATERIALS. CONTRACTOR IS RESPONSIBLE FOR INSTALLING FINISH FLOOR MATERIALS PER MANUFACTURERS REQUIREMENTS AND TO PROVIDE ALL REQUIRED SUBSTRATES WETHER OR NOT SHOWN IN CONSTRUCTION DRAWINGS.
16. COMBUSTIBLE FUELS AND EQUIPMENT SHALL NOT BE STORED IN THE BUILDING.
17. IF INCORRECT DRAWING TITLES OR SPECIFICATION REFERENCES ARE FOUND THE CONTRACTOR IS NOTIFY ARCHITECT FOR CLARIFICATION.
18. DEFECTIVE WORK SHALL BE REPLACED PRIOR TO THE NEXT APPLICATION FOR PAYMENT.
19. DO NOT SCALE DRAWINGS. IF ADDITIONAL DIMENSION OR CLARIFICATION IS NEED, THE CONTRACTOR SHALL ISSUE AN RFI TO THE ARCHITECT BEFORE CONTINUING WITH CONSTRUCTION. VERIFY ALL EXISTING CONDITIONS AND NOTIFY THE ARCHITECT OF ANY DISCREPANCIES. ALL RFIs ARE TO BE SUBMITTED WITH PROPOSED SOLUTION OR WILL BE REJECTED.
20. ALL PREFABRICATED ITEMS SUCH AS WINDOWS, DOOR FRAMES, ETC. SHALL BE FIELD MEASURED. IT IS THE CONTRACTOR'S (WHO HOLDS THE PRIME CONTRACT) RESPONSIBILITY COORDINATE FIELD MEASUREMENTS. DO NOT RELY ON THE DIMENSIONS ON THE DRAWINGS.
21. THE CONTRACTOR SHALL PROVIDE COORDINATION DRAWINGS SUCH AS BUT NOT LIMITED TO, CEILING, ELECTRICAL, MECHANICAL, PLUMBING, FIRE PROTECTION.
22. THE MECHANICAL AND ELECTRICAL DRAWINGS ARE DIAGRAMMATIC. THE INTENT OF THE DESIGN IS THAT ALL REQUIRED CLEARANCES FOR EQUIPMENT, INCLUDING POWER PANELS, SHALL BE PROVIDED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ALL OVERHEAD EQUIPMENT WITH ALL TRADES PRIOR TO INSTALLATION OF WORK. IF ADEQUATE CLEARANCES WILL NOT BE POSSIBLE WITHIN THE MECHANICAL ROOMS, ELECTRICAL ROOMS, OR CEILINGS FOR THE APPROVED EQUIPMENT, HE SHALL CONTACT THE ARCHITECT IMMEDIATELY FOR RESOLUTION.
23. THERE ARE DETAILS, SECTIONS, AND NOTES THAT ARE INTENDED TO BE TYPICAL FOR THE GENERAL CONDITIONS IN THE PROJECT. REFER ANY UNCERTAINTIES TO ARCHITECT FOR CLARIFICATION.
24. WRITTEN APPROVAL IS REQUIRED FROM THE ARCHITECT AND OR ENGINEERS PRIOR TO REPRODUCING DRAWINGS FOR USE IN SHOP DRAWING SUBMITTALS. ANY DISCREPANCIES IN THE CONSTRUCTION DOCUMENTS SHALL NOT RELIEVE THE CONTRACTOR FROM THE REQUIREMENT TO ACCURATELY LAY OUT, COORDINATE, DETAIL, FABRICATE, AND INSTALL A COMPLETE WORKABLE SYSTEM OF COMPONENTS. PROVIDING CAD, BIM, OR OTHER ELECTRONIC FILES WILL INCUR FEE TO BE PAID BY G.C., SUBCONTRACTOR, OR VENDOR AND WILL BE PROVIDED 'AS-IS'.
25. THE CONTRACTOR SHALL MAKE NO DEVIATIONS FROM THE CONSTRUCTION DOCUMENTS WITHOUT THE ARCHITECT'S WRITTEN APPROVAL. ANY WORK THAT DEVIATES FROM THE CONSTRUCTION DOCUMENTS SHALL BE CONSIDERED UNACCEPTABLE AND REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
26. CHANGE ORDER PROPOSALS AFFECTING THE CONTRACT SUM SHALL BE APPROVED IN WRITING FROM THE OWNER PRIOR TO PROCEEDING WITH THE WORK. VERBAL AUTHORIZATION BY THE OWNER CAN BE MISUNDERSTOOD AND WILL NOT BE ACCEPTABLE FOR CHANGES IN THE CONSTRUCTION CONTRACT THEREFORE A WRITTEN APPROVAL IS STILL REQUIRED PRIOR TO PROCEEDING. ALL SUBMITTED CHANGE ORDER PROPOSALS SHALL BE IN NUMERICAL ORDER STARTING WITH 001 AND HAVE A BRIEF TITLE DESCRIPTION.
27. IF NOT INDICATED IN CIVIL DRAWINGS OR SPECIFICATIONS, THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF VERIFYING EXISTING CONDITIONS AND UTILITIES PRIOR TO START OF CONSTRUCTION.
28. AGAIN THE CONTRACTOR WHO HOLDS THE PRIME CONTRACT IS RESPONSIBLE FOR ALL WORK INCLUDING WORK DONE BY SUBCONTRACTORS. THE CONTRACTOR'S SUPERINTENDENT SHALL REPRESENT THE CONTRACTOR AND THE SUBCONTRACTORS. WHEN A PROBLEM ARISES DURING CONSTRUCTION, THE SUPERINTENDENT IS EXPECTED TO KNOW AND UNDERSTAND EACH PROBLEM AND HAVE REASONABLE SOLUTIONS TO RESOLVE THE ISSUE BEFORE CALLING THE ARCHITECT.
29. THE CONTRACTOR IS REQUIRED TO PROTECT THE WORK UNTIL SUBSTANTIAL COMPLETION INCLUDING THE INTERIOR REQUIRED TEMPERATURES AND HUMIDITY LEVELS FOR THE PRODUCTS INSTALLED.
30. SMOKING, EATING, AND DRINKING INSIDE THE BUILDING (OTHER THAN WATER) IS NOT ALLOWED.
31. THE CONTRACTOR SHALL REMOVE CONSTRUCTION DEBRIS, ESPECIALLY IN MASONRY CAVITIES, PRIOR TO ENCLOSING THE SPACES.
32. AIR HANDLING EQUIPMENT AND DUCTWORK SHALL BE PROTECTED TO PREVENT INFILTRATION OF DIRT AND DEBRIS AT ALL TIMES UNTIL EQUIPMENT IS OPERATIONAL.
33. UNLESS NOTED OTHERWISE IN THE PROJECT MANUAL, THE CONTRACTOR SHALL SUBMIT THE OPERATIONS AND MAINTENANCE MANUALS AT LEAST TWO WEEKS BEFORE THE FINAL INSPECTION IS SCHEDULED FOR SUBSTANTIAL COMPLETION. THE FINAL INSPECTION WILL NOT BE SCHEDULED UNTIL OPERATION AND MAINTENANCE MANUALS HAVE BEEN APPROVED.
34. THE CONSTRUCTION SCHEDULE SHALL ALLOW TIME FOR TESTING AND BALANCING PRIOR TO SUBSTANTIAL COMPLETION. THE PROJECT WILL NOT BE CONSIDERED SUBSTANTIALLY COMPLETE UNTIL THE TESTING AND BALANCING HAS BEEN COMPLETED.
35. REQUEST FOR FINAL INSPECTION SHALL BE IN WRITING TO THE ARCHITECT.
36. WHEN APPLICABLE, ALL DEMONSTRATION AND TRAINING OF OWNER'S PERSONNEL SHALL BE COMPLETE BEFORE THE PROJECT IS CERTIFIED TO BE SUBSTANTIALLY COMPLETE BY THE ARCHITECT.
37. THE CONTRACTOR SHALL CONDUCT TWO POST CONSTRUCTION INSPECTIONS;
   1) THE FIRST INSPECTION WILL BE HELD APPROXIMATELY 8 MONTHS AFTER SUBSTANTIAL COMPLETION TO ADDRESS PLUMBING, HVAC, AND ELECTRICAL CONCERNS;
   2) THE SECOND INSPECTION WILL BE HELD PRIOR TO EXPIRATION OF THE 1-YEAR WARRANTY PERIOD TO ADDRESS GENERAL CONSTRUCTION, INCLUDING THE ABOVE. ALL PROBLEMS DISCOVERED DURING THESE INSPECTIONS THAT RELATE TO DEFECTIVE MATERIALS AND WORKMANSHIP SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
38. **THERE WILL BE A PER HOUR CHARGE TO THE CONTRACTOR FOR ANSWERING RFI'S THAT ARE DEEMED UNNECESSARY BY THE ENGINEER.**
39. NOTE THAT ADA RESTROOMS REQUIRED CLEARANCE ARE SHOWN FROM FACE OF FINISH TO FACE OF FINISH MEASURED AT THE FLOOR LEVEL.
40. IF THE OWNER HAS EMPLOYED A THIRD PARTY SPECIAL INSPECTION CONTRACTOR, THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR ALL FEES REQUIRED FOR REINSPECTION BY THE THIRD PARTY TO CLEAR/RESOLVE "DEVIATIONS " NOTED ON THEIR REPORTS.

DIVISION 2

1. CONSTRUCTION DOCUMENTS INDICATING EXISTING CONDITIONS SUCH AS ROADS, TREES, UTILITIES, ETC., ARE APPROXIMATE. .CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS PRIOR TO PROCEEDING WITH THE WORK. THE USE OF EXPLOSIVES IN OR DURING CONSTRUCTION IS NOT ALLOWED.
2. UNLESS NOTED OTHERWISE, GEOTECHNICAL REPORTS ARE FOR INFORMATION ONLY WHETHER OR NOT BOUND INTO THE PROJECT MANUAL.
3. TERMITICIDES USE AND APPLICATION SHALL BE WITNESSED BY THE ARCHITECT AND CERTIFIED IN WRITING BY THE CONTRACTOR.
4. UNLESS SPECIFICALLY EXCLUDED IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING OF NEW GRASS, TREES, AND OTHER VEGETATION DUE TO DRY CONDITIONS. THE CONTRACTOR IS RESPONSIBLE TO RE-ESTABLISH THOSE AREAS THAT PERISH DO TO INSUFFICIENT WATERING, AND THIS IS A REQUIREMENT PRIOR TO FINAL PAYMENT BEING RELEASED.

DIVISION 3

1. **ALL CONCRETE SLAB FLATNESS AND LEVELNESS SHALL BE "VERY FLAT" CLASSIFICATION BY DEFAULT, UNLESS OTHERWISE NOTED.**

DIVISION 4

1. IF NOT INDICATED OR UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, PROVIDE CONTROL JOINTS IN CMU WALLS IN ACCORDANCE WITH ACI 530.1, HOWEVER NO MORE THAN 28 FEET ON CENTER AND WHERE WALLS CHANGE HEIGHT IN THE PLANE OF THE WALL. ARCHITECT TO APPROVE JOINT LOCATIONS.
2. IF NOT INDICATED OR UNLESS OTHERWISE NOTED IN THE CONTRACT DOCUMENTS, PROVIDE EXPANSION JOINTS IN CLAY MASONRY, HOWEVER NO MORE THAN 24 FEET ON CENTER. ARCHITECT TO APPROVE JOINT LOCATIONS.
3. HORIZONTAL MASONRY DIMENSIONS ARE NOMINAL. CONTRACTOR SHALL CONVERT NOMINAL DIMENSIONS TO ACTUAL DIMENSIONS TO MAINTAIN MASONRY BOND PATTERN. FOR EXAMPLE, 1'-4" EQUALS 1'-3 5/8". OPENINGS ARE ALWAYS 3/8-INCHES WIDER THAN THE NOMINAL DIMENSION; I.E., 4'-0" M.O. EQUALS 4'-0 3/8".
4. PRIOR TO THE USE OF CHEMICAL CLEANERS FOR FACE BRICK , CONTRACTOR TO OBTAIN IN WRITING THE APPROVAL BY THE FACE BRICK AND MORTAR MANUFACTURERS FOR THE USE OF THE SPECIFIC CHEMICAL CLEANER. SUBMIT DOCUMENT TO ARCHITECT FOR APPROVAL PRIOR TO APPLICATION.

DIVISION 5

1. PROVIDE MISCELLANEOUS STEEL SUPPORTS IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 5 SECTION "METAL FABRICATIONS" IF AND WHERE CEILING MOUNTED PARTITIONS ARE INDICATED.
2. IF A COUNTERTOP WITHOUT A BASE CABINET HAS NO SUPPORT SHOWN OR INDICATED PROVIDE MISCELLANEOUS STEEL SUPPORTS IN ACCORDANCE WITH REQUIREMENTS OF DIVISION 5 SECTION "METAL FABRICATIONS."

DIVISION 6

1. FOR ANY AND ALL SURFACE MOUNTED ACCESSORIES OR EQUIPMENT, PROVIDE CONCEALED WOOD BLOCKING OR METAL SHEET IN METAL STUD PARTITIONS. ESPECIALLY FOR GRAB BARS AND TOILET ACCERIORIES.PROVIDE FIRE RETARDANT TREATED WOOD. ALL CONCEALED WOOD BLOCK TO BE WITHIN CODE REQUIREMENTS.
2. GROMMETS ARE NOT SHOWN ON DRAWINGS FOR DATA, POWER, AND TELEPHONE CABLES. CONTRACTOR TO DRILL HOLES AND PROVIDE ALL GROMMET ACCESSORIES IN COUNTERTOPS. COORDINATE FINAL LOCATIONS WITH OWNER AND ARCHITECT.
3. SCRIBE ALL COUNTERTOPS TO WALLS AND SEAL WITH SPECIFIED SEALANT WHETHER OR NOT SHOWN ON THE DRAWINGS. VERIFY WITH ARCHITECT SEALANT COLOR PRIOR TO INSTALLATION.
4. CONTRACTOR TO COORDINATE HEIGHT OF COUNTERTOPS AND BACKSPLASHES WITH SHOP DRAWINGS PRIOR TO ROUGHING IN FOR ELECTRICAL OUTLETS
5. VERIFY DOOR SWINGS BEFORE ROUGHING IN FOR WALL SWITCHES, DIMMERS, MAGNETIC DOOR HOLDERS, FLOOR DRAINS, HUB DRAINS AND ALARM DEVICES.
6. IF ELECTRONIC HARDWARE OF ANY KIND IS SPECIFIED, A COORDINATION MEETING BETWEEN OWNER, ARCHITECT, AND CONTRACTOR TO DETERMINE OWNERS INTENT FOR THE EXACT FUNCTION OF ALL ELECTRONIC HARDWARE IS REQUIRED PRIOR TO ORDERING HARDWARE. NO CHANGE ORDERS WILL BE ISSUED UNLESS A SUBSTANTIAL QUANTITY CHANGE IS REQUIRED. EVEN THOUGH NO CHANGES ARE ANTICIPATED THE CONTRACTOR IS EXPECTED TO PLAN FOR MINOR MODIFICATIONS (MINOR AS DETERMIEND BY THE ARCHITECT) OF THE HARDWARE IN THERE PRICING.

DIVISION 7

1. VAPOR BARRIERS SHALL BE CONTINUOUS WITH ALL PENETRATIONS SEALED.
2. WHERE WATERPROOFING IS REQUIRED BY CONSTRUCTION, APPLY WATERPROOFING SYSTEM TO ALL SIMILAR SURFACES BELOW GRADE WHETHER OR NOT SPECIFIED.
3. CONTRACTOR IS RESPONSIBLE FOR FLOOD TESTING OF HORIZONTAL WATERPROOFING AND SHALL BE WITNESSED BY THE TESTING AGENCY AND ARCHITECT.
4. ROOFS SHALL NOT HAVE ANY AREAS WHERE STANDING WATER REMAINS MORE THAN 48 HOURS. WETHER OR NOT SPECIFIED PROVIDE POSITIVE DRAINAGE ON ALL ROOFS.
5. PROVIDE CRICKETS AT ALL ROOF CURBS, ROOF EQUIPMENT, CHIMNEYS, ETC.
6. WETHER OR NOT INDICATED IN CONSTRUCTION DOCUMENTS, AT LOW SLOPE ROOFS WITH PARAPETS, PROVIDE THROUGH WALL EMERGENCY OVERFLOW SCUPPERS IN THE EVENT THAT INTERNAL ROOF DRAINS ARE CLOGGED. VERIFY LOCATIONS WITH ARCHITECT.
7. WHEN WALKWAY PADS ARE INCLUDED IN THE SPECIFICATIONS, OR DRAWINGS, PROVIDE WALKWAY PADS AROUND ALL ROOF TOP EQUIPMENT AND CONTINUOUS WALKWAY PATHS TO ROOF HATCHES OR LADDERS WHETHER OR NOT SHOWN ON THE DRAWINGS.
8. COORDINATE ALL UTILITIES SERVING ROOF TOP EQUIPMENT SO ROOF PENETRATIONS OCCUR WITHIN THE ROOF CURB.
9. IN THE ABSENCE OF A DETAIL OF ANY CONDITION ON THE ROOF, THE ROOF MANUFACTURER'S STANDARD DETAIL OR THE MOST STRINGENT NRCA/SMACNA DETAIL SHALL APPLY AS IF INCORPORATED INTO THE DRAWINGS.
10. IN THE ABSENCE OF ROOF EXPANSION JOINTS (NOT BUILDING EXPANSION JOINTS), ROOFING MANUFACTURER'S RECOMMENDATIONS SHALL GOVERN.
11. METAL COPINGS SHALL BE SECURED TO COMPLY WITH THE SPECIFICATIONS, AND IF NOT SPECIFIED, SHALL RESIST THE WIND LOADS FOR THE PARTICULAR PROJECT LOCATION.
12. WHEN PROJECT SPECIFICATIONS INCLUDE SPRAYED FIRE RESISTIVE MATERIALS, PROVIDE FIREPROOFING WHERE REQUIRED ON STRUCTURAL STEEL COMPONENTS TO MEET CONSTRUCTION TYPE FIRE PROTECTION WHETHER OR NOT SHOWN IN THE WALL SECTIONS AND DETAILS.
13. THE LIFE SAFETY DRAWINGS CONTAIN INFORMATION AND REQUIREMENTS RELATED TO FIRE RATED CONSTRUCTION AND FIRE PROTECTION SYSTEMS. COORDINATE THE REQUIREMENTS WITH THE CONSTRUCTION DOCUMENTS. REPORT DISCREPANCIES TO THE ARCHITECT.
14. WHERE THROUGH PENETRATIONS OCCUR IN FIRE RATED ASSEMBLIES, THE CONTRACTOR IS RESPONSIBLE FOR SEALING ALL OPENINGS REGARDLESS OF THE TRADE WHO MADE THE PENETRATION.
15. EXTEND SMOKE WALLS TO DECK AND SEAL SMOKE TIGHT. (SMOKE TIGHT SEALS NEED NOT BE FIRE RATED, UNLESS NOTED OTHERWISE).
16. ALL CONCEALED THROUGH PENETRATION FIRESTOPPING AND FIRE RESISTIVE JOINT SYSTEMS SHALL BE INSPECTED AND APPROVED PRIOR TO CONCEALMENT BEHIND PERMANENT CONSTRUCTION.

DIVISION 8

1. WOOD DOORS SHALL NOT BE INSTALLED UNTIL THE BUILDING IS ENCLOSED, THE PERMANENT HEATING AND COOLING SYSTEMS ARE IN OPERATION, AND RESIDUAL MOISTURE FROM PLASTER, CONCRETE, MASONRY, AND TERRAZZO WORK HAS DISSIPATED. IF THE DOORS MUST BE INSTALLED BEFORE THE CONDITIONS ARE ACCEPTABLE DUE TO CONSTRUCTION SCHEDULE RESTRAINTS, THE CONTRACTOR SHALL PROCEED AT HIS OWN RISK.
2. WETHER OR NOT INDICATED IN CONSTRUCTION DOCUMENTS, PROVIDE CEILING ACCESS PANELS IN GYPSUM BOARD CEILINGS TO ACCESS MECHANICAL, PLUMBING, AND ELECTRICAL EQUIPMENT AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH ALL TRADES. CONTRACTOR IS ALSO RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ANY FIRE RATED ASSEMBLIES WITH THE INSTALLATION OF ACCESS PANELS.
3. ALL REMOVABLE GLAZING STOPS SHALL BE LOCATED ON THE SECURE SIDE OF OPENINGS.

DIVISION 9

1. WHERE DRAWINGS INDICATE PARTITION TYPES, ACCOMPANIED BY A PARTITION SCHEDULE, AND A WALL IS FOUND TO HAVE NO DESIGNATION, THE CONTRACTOR SHALL ASSUME THE ADJACENT PARTITION TYPE, OR IF UNCERTAIN, ASSUME THE HIGHEST QUALITY. NO CHANGE ORDERS WILL BE GRANTED DUE TO MISSING DESIGNATIONS.
2. PROVIDE MOISTURE RESISTANT GYPSUM BOARD IN WET AREAS SUCH AS JANITOR CLOSETS, TOILETS, MECHANICAL ROOMS, AND FOOD PREP AREAS
3. **PROVIDE CONTROL JOINTS IN GYPSUM BOARD IN ACCORDANCE WITH ASTM C 840; CEILINGS: 2500 SF, 50 FEET MAX; PARTITIONS: 30 FEET MAX.**
4. METAL STUD GAUGE SHALL BE AS INDICATED IN CONSTRUCTION DOCUMENTS. WHERE NO THICKNESS IS INDICATED, PROVIDE A MINIMUM STEEL THICKNESS OF 18 GUAGE.
5. ALL WALL FRAMING SHALL EXTEND TO THE DECK ABOVE AND PROVIDE DEFLECTION TRACKS. CONTRACTOR TO COORDINATE ALL FRAMING WITH MECHANICAL, ELECTRICAL, AND PLUMBING SYSTEMS.
6. ALL ROOMS SHALL BE ADA ACCESSIBLE. UNLESS NOTED OTHERWISE, ALL DOORS SHALL BE LOCATED SO THE EDGE OF DOOR OPENINGS FOR OUTSWING DOORS IS 18-INCHES MINIMUM FROM AN ADJACENT WALL, AND 12-INCHES MINIMUM FOR INSWING DOORS. ANY DISCREPANCIES TO BE BROUGHT TO THE ARCHITECT'S ATTENTION IMMEDIATELY PRIOR TO FINAL INSTALLATION OF DOORS. CONTRACTOR TO PROVIDE A WRITTEN REPORT THAT ALL DOOR OPENINGS WERE VERIFIED DURING FRAMING AND PRIOR TO WALL SHEATHING.
7. AT INTERIOR DOOR LOCATIONS, LOCATE EDGE OF FRAME WITHIN 8-INCHES OF ADJACENT WALL IN CMU CONSTRUCTION AND 4" IN METAL OR WOOD STUD WALL CONSTRUCTION.
8. NO DEAD END CORRIDORS IN THE BUILDING ARE ACCEPTABLE. IF THE CONTRACTOR DETERMINES DURING CONSTRUCTION OF EVEN A FEW INCHES NOTIFY ARCHITECT. REFER TO LIFE SAFETY DRAWINGS.
9. ALL CEILING GRIDS OF ACOUSTICAL PANEL CEILINGS ARE TO BE CENTERED IN THE ROOMS, UNLESS NOTED OTHERWISE. THE INTENT IS TO NOT HAVE ANY TILES THAT ARE CUT TO BE LESS THAN HALF THEIR STANDARD SIZE.
10. LOCATE ALL CEILING FIXTURES, EQUIPMENT, AND DEVICES IN THE CENTER OF THE CEILING PANELS, UNLESS SPECIFICALLY NOTED OTHERWISE ON CONSTRUCTION DOCUMENTS.
11. SMOKE DETECTORS SHALL NOT BE LOCATED WITHIN 24 INCHES OF A SUPPLY OR RETURN GRILLE.
12. SUSPENDED CEILING GRIDS SHALL NOT BE INSTALLED UNTIL ALL ABOVE CEILING EQUIPMENT AND UTILITIES ARE COMPLETED. CEILING PANELS SHALL NOT BE INSTALLED UNTIL THE ARCHITECT HAS COMPLETED THE ABOVE CEILING INSPECTION. IF CEILING PANELS HAVE BEEN INSTALLED PRIOR TO REQUIRED INSPECTIONS, THE CONTRACTOR SHALL REMOVE AND REPLACE CEILING PANELS AT NO ADDITIONAL COST TO THE OWNER. SOILED OR DAMAGED CEILING PANELS AND GRIDS RESULTING FROM REWORK ARE CONSIDERED DEFECTIVE WORK AND SHALL BE REPLACED IMMEDIATELY AND PRIOR TO INSPECTIONS FOR SUBSTANTIAL COMPLETION. DO NOT INSTALL ACOUSTICAL PANEL CEILINGS UNTIL BUILDING IS ENCLOSED, PERMANENT HEATING AND COOLING EQUIPMENT IS IN OPERATION, AND EQUIPMENT SUCH AS LIGHT FIXTURES SHALL BE INDEPENDENTLY SUPPORTED FROM THE CEILING SUSPENSION SYSTEM.
13. PAINT EXPOSED EDGES OF CUT CEILING PANELS TO MATCH.
14. COORDINATE ABOVE CEILING EQUIPMENT SO THAT NO CEILING IS LESS THAN 8 FEET ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. CEILING HEIGHTS ARE NOT TO BE BELOW BUILDING CODE MINIMUMS.
15. WETHER OR NOT INDICATED IN CONSTRUCTION DOCUMENTS CONTRACTOR TO INSTALL RESILIENT WALL BASE BEHIND MOVABLE EQUIPMENT AND ALL TOE SPACES OF CABINETWORK.
16. WHERE EXPOSED STRUCTURE HAS BEEN INDICATED TO BE PAINTED, THIS INCLUDES ALL EXPOSED CONDUIT, DUCT, AND PIPING. WETHER OR NOT INDICATED IN CONSTRUCTION DOCUMENTS ALL EXPOSED CONDUIT ON WALLS SHALL BE PAINTED TO MATCH THE WALLS OR ADJACENT SURFACES.
17. PAINT ALL EXPOSED STEEL ITEMS ON THE EXTERIOR OF THE BUILDING WHETHER OR NOT INDICATED IN CONSTRUCTION DOCUMENTS. THIS INCLUDES EXPOSED MASONRY STEEL LINTELS. PAINT TO BE APPROVED FOR EXTERIOR APPLICATIONS.
18. REFER TO PAINTING SPECIFICATIONS FOR TYPES OF PAINTS FOR VARIOUS SUBSTRATES.
19. COORDINATE PAINTING SYSTEMS WITH SHOP-APPLIED PRIMERS.
20. CONCRETE FLOORS IN MECHANICAL ROOMS, ELECTRICAL ROOMS, AND OTHER HABITABLE SPACES WHERE NO FLOOR FINISH MATERIAL IS SCHEDULED SHALL BE SEALED WITH A POLYAMIDE EPOXY SEALER. REFER TO HIGH PERFORMANCE COATING SPECIFICATIONS.
21. UNLESS NOTED OTHERWISE, METAL DOOR FRAMES, HOLLOW METAL DOORS, MISCELLANEOUS STEEL FABRICATIONS, EXPOSED METAL STAIRS, AND STEEL HANDRAILS ARE TO BE PAINTED. REFER TO PAINTING SPECIFICATIONS. HOWEVER IF NO SPECIFICATION HAS BEEN INDICATED SUBMIT TO ARCHITECT FOR APPROVAL APPROPRIATE PAINTING SYSTEM.
22. WALLS IN FOOD SERVICE AREAS SHALL BE SMOOTH AND FREE OF DEFECTS. WETHER OR NOT INDICATED ON FINISH SCHEDULE OR INTERIOR ELEVATIONS APPLY SMOOTH THIN COAT PLASTER FINISH ON CMU WALLS PRIOR TO PAINTING.
23. UNLESS NOTED OTHERWISE, ALL LEFT OVER FINISH MATERIALS AND UNOPENED CONTAINERS SHALL BE TURNED OVER TO OWNER IN ADDITION TO EXTRA MATERIALS SPECIFIED IN RESPECTIVE SECTIONS.
24. IF NOT DESIGNATED OTHERWISE ALL EXTERIOR STEEL TO BE GALVANIZED. ANY REQUIRED PAINT COATING MUST BE PROPERLY PRIMED.
25. ALL AREAS RECEIVING WALL TILE TO FOLLOW TCNA HANDBOOK AND PROVIDE CEMENT BOARD BACKING.

DIVISION 10

1. LOCATE PORTABLE FIRE EXTINGUISHERS CABINETS SO MAXIMUM COVERAGE DOES NOT EXCEED NFPA 13 REQUIREMENTS. ALSO CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL REQUIRED CABINETS BY APPROPRIATE GOVERNING AUTHORITY SUCH AS FIRE MARSHALL AND BUILDING CODE OFFICIAL REGARDLESS IF SHOWN IN CONSTRUCTION DOCUMENTS. ALL ASSOCIATED COSTS OF REQUIRED FIRE EXTINGUISHER CABINETS ARE TO CONTRACTORS RESPONSIBILITY. A CHANGE ORDER WILL NOT BE ISSUED IF GOVERNING AUTHORITIES DETERMINE ADDITIONAL CABINETS ARE REQUIRED. REFER TO LIFE SAFETY PLANS.
2. WHEN INTERIOR ROOM SIGNS ARE REQUIRED, CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL OF ROOM NAMES FROM OWNER PRIOR TO FABRICATION AND INSTALLATION.
3. ALL EQUIPMENT DESIGNATED TO BE RECESSED IN RATED WALLS MUST CARRY AN EQUIVALENT RATING, WHETHER OR NOT IT IS SPECIFIED.

DIVISION 14

1. UNLESS NOTED OTHERWISE IN THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL CERTIFY THAT THE HOISTWAY, ELEVATOR PIT, AND MACHINE ROOM LAYOUT, INCLUDING DOOR LOCATION, SIZE, AND SWING, LOCATIONS OF ALL WALL MOUNTED ELECTRICAL DEVICES, AND DIMENSIONS, AS SHOWN ON THE CONTRACT DOCUMENTS, AND ELECTRICAL SERVICES SHOWN AND SPECIFIED, ARE ADEQUATE FOR THE ELEVATOR SYSTEM BEING PROVIDED. IF ANY OF THE ABOVE REFERENCED ITEMS DO NOT COMPLY WITH THE ACTUAL ELEVATOR BEING SUPPLIED, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO INSTALLATION. AFTER INSTALLATION HAS BEGUN, THE CONTRACTOR ASSUMES ALL ADDITIONAL COSTS FOR INADEQUATE SYSTEMS AND SERVICES.

DIVISION 22/23: SEE PLUMBING/MECHANICAL DRAWINGS

DIVISION 26: SEE ELECTRICAL DRAWINGS

GERNERAL DEMOLITION NOTES:

1. CONTRACTOR SHALL SUBMIT A DEMOLITION SEQUENCING PLAN AND SEEK WRITTEN APPROVAL FROM THE ARCHITECT OR OWNER PRIOR TO START OF DEMOLITION. DO NOT BEGIN DEMOLITION UNTIL ITEMS TO BE SALVAGED HAVE BEEN REMOVED.
2. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS TO BE DEMOLISHED AND NOTIFY THE ARCHITECT OR OWNER OF DISCREPANCIES IN WRITING PRIOR TO START OF DEMOLITION.
3. PRIOR TO DEMOLITION, COVER AND PROTECT EXISTING FINISHES AND EQUIPMENT TO REMAIN.
4. PROJECTS OF A HISTORIC NATURE SHALL REQUIRE SPECIAL PROTECTION AND TREATMENT PROCEDURES. COORDINATE WITH OWNER WHO WILL ESTABLISH SPECIAL PROCEDURES FOR DISMANTLING AND SALVAGE OF DESIGNATED ITEMS.
5. CONTRACTOR SHALL TAKE CARE NO TO VOID ANY EXISTING WARRANTIES ADJACENT TO DEMOLITION WORK.
6. IF MATERIALS SUSPECTED OF CONTAINING HAZARDOUS MATERIALS ARE ENCOUNTERED, DO NOT DISTURB; IMMEDIATELY NOTIFY ARCH.& OWNER. OWNER WILL REMOVE HAZARDOUS MATERIALS UNDER A SEPARATE CONTRACT.
7. ITEMS NOT DESIGNATED FOR SALVAGE OR REMOVAL BY OWNER ARE THE RESPONSIBILITY OF THE CONTRACTOR FOR REMOVAL AND DISPOSAL.

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ISSUE:
3.31.25 BID

JOB NO.
24001

DESCRIPTION:
GENERAL NOTES

SHEET
T1.1

STATE OF ALABAMA
WILLIAM WHITTAKER
6524
REGISTERED ARCHITECT

4/6/2025 2:10:53 PM

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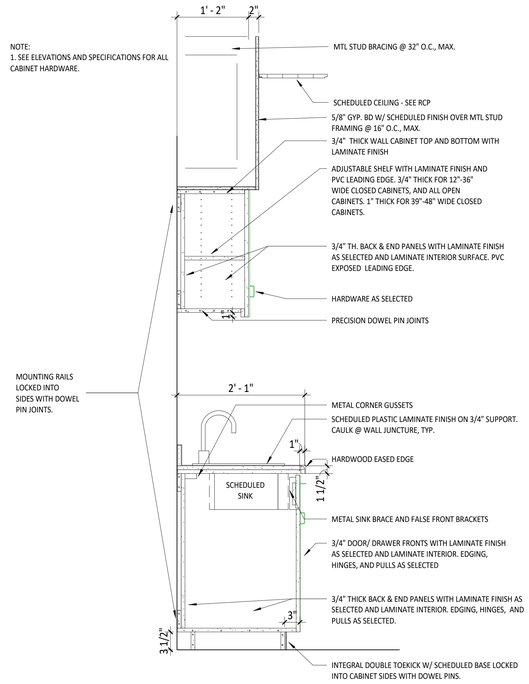
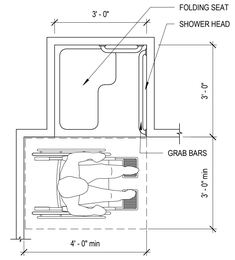
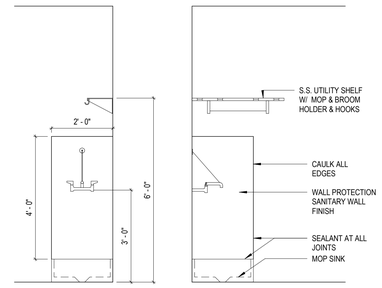


6 / T2.0 TYP. SINK CABINET
1" = 1'-0"

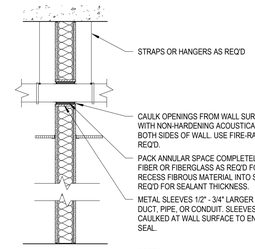


3 / T2.0 STANDARD - ADA CLEARANCE AT SHOWER COMPARTMENT
1/2" = 1'-0"



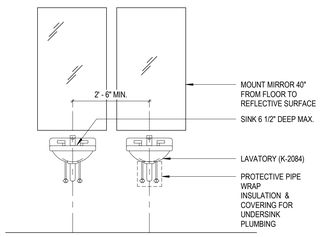
5 / T2.0 STANDARD - CUSTODIAL CLOSET
1/2" = 1'-0"

TYPICAL PENETRATION DETAIL

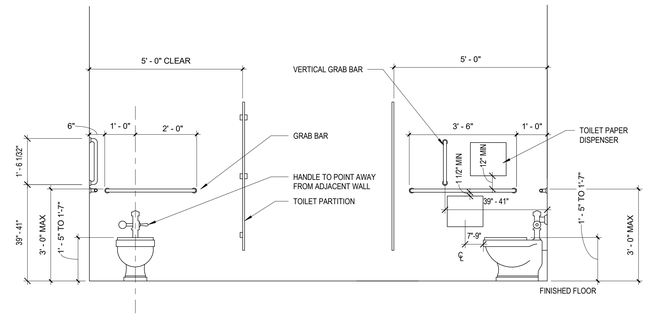


NOTES
1. USE THIS DETAIL TO ISOLATE ALL DUCTWORK, PIPING, AND CONDUIT THROUGH THE WALLS OF MEETING ROOMS, OFFICES, AND ELECTRICAL ROOMS.
2. THIS DETAIL DOES NOT APPLY TO DUCT PENETRATIONS WITH A FIRE / SMOKE DAMPER.

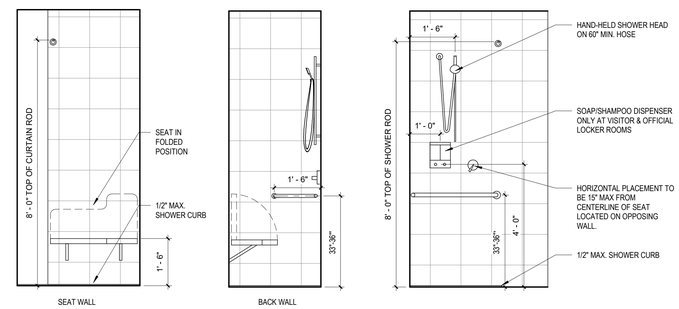
7 / T2.0 TYPICAL PENETRATION DETAIL
3/4" = 1'-0"



4 / T2.0 STANDARD - SINK DIMENSIONS
1/2" = 1'-0"



1 / T2.0 STANDARD - ADA TOILET STALL DIMENSIONS
1/2" = 1'-0"



2 / T2.0 STANDARD - ADA SHOWER
1/2" = 1'-0"

ANNOTATION SYMBOLS:

ROOM NAME
101
150 SF
A
20

ROOM REFERENCE SYMBOL:
-- Room Name
1--: floor number
-- 01: space number
150 SF: net square footage

COLUMN LINES:
2 - consecutive numbers are used for column lines running east & west
B - consecutive letters are used for column lines running north & south
NOTE: If a column line is added, "sub" letters are used with a number/letter

2- face of masonry or face of girder

TITLE
0'-0"
TITLE OF LEVEL
ELEVATION (FT)

1
REVISION SYMBOL
Used to indicate scope of current revision

101
DOOR SYMBOL:
-DOOR NUMBER 101
SEE DOOR SCHEDULE AND FLOOR PLANS

A
WINDOW SYMBOL:
-WINDOW TYPE A
SEE EXTERIOR ELEVATIONS AND WINDOW SCHEDULE

L1
LOUVER SYMBOL:
-LOUVER TYPE L1
SEE LOUVER SCHEDULE

A
WALL SYMBOL:
-WALL TYPE "A"
SEE PARTITION LEGEND

1
SPECIALTY EQUIPMENT TAG:
-EQUIPMENT TYPE 1
SEE SPECIALTY EQUIPMENT SCHEDULE

1
PLAN KEYNOTE TAG
- NOTE NUMBER 1
SEE FLOOR PLAN NOTE SCHEDULE

1 A101
BUILDING SECTION SYMBOL:
SECTION 1 ON SHEET A101

1 A101
WALL SECTION SYMBOL:
SECTION 1 ON SHEET A101

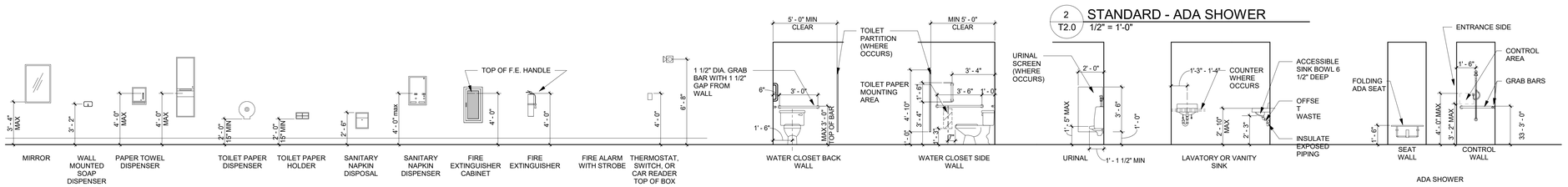
1 A101
ENLARGED DETAIL SYMBOL:
DETAIL 1 ON SHEET A101

1 A101
EXTERIOR ELEVATION SYMBOL:
ELEVATION 1 ON SHEET A101

A101 3
INTERIOR ELEVATION SYMBOL:
INTERIOR ELEVATION 3 ON SHEETA101

NORTH ARROW

FF&E:



ABBREVIATIONS

AB	anchor bolt
AC	acre
ACC	access
ACI	American Concrete Institute
ACT	acoustical ceiling tile
ADD	addendum
AFF	above finished floor
ALT	alternate
ALUM	aluminum
APPROX	approximate
ARCH	architect (ural)
ASV	architectural stone veneer
B&B	balled and burlapped
B/B	back to back
BC	base of curb
BD	board
BLDG	building
BLK	block
BLKG	blocking
BM	beam
B.M.	benchmark
BOT	bottom
BRG	bearing
BRK	brick
BSMT	basement
BT	bent
BUR	built-up roof
BW	bottom of wall
CAB	cabinet
CAL	caliper
CB	catch basin
C/C	center to center
CD	core deck
CF	cubic foot
CHAN	channel
CI	cast iron
CIP	cast iron pipe
CJ	construction or control joint
CLG	ceiling
CLO	closet
CLR	clear (ance)
CLS	closure
CMP	corrugated metal pipe
CMU	concrete masonry unit
CO	clean out
COL	column
CONC	concrete
CONN	connection
CONST	construction
CONT	continuous or continue
CONTR	contract or contractor
CNTR	center
CPT	carpet (ed)
CRS	course (s)
CS	countersink
CSMU	ca
CT	ceramic tile
CY	cubic yard
D	dryer
DBL	double
DEM	demolish or demolition
DET	detail
DH	double hung
DIA	diameter
DIAG	diagonal
DIM	dimension
DIP	ductile iron pipe
DL	dead load
DR	door
DS	downspout
DWG	drawing
DF	drinking fountain
t	
EA	each
EF	each face
EIFS	exterior insulation finish system
EJ	expansion joint
ELEV	elevation/elevator
ELEC	electric (al)
EMER	emergency
ENGR	engineer
EOP	edge of pavement
EOS	edge of slab
EPNT	epoxy paint
EQ	equal
EW	each way
EWC	electric water cooler
EXH	exhaust
EXIST	existing
EXP	expansion
EXT	exterior
FBO	furnished by others
FD	floor drain
FEC	fire extinguisher and cabinet
FFE	finished floor elevation
FFL	finished floorline
FHC	fire hose and cabinet
F/	face of
F/F	face to face
FIN	finish (ed)
FL	floor
FLG	flange
FND	foundation
F.O.	face of
FOB	face of brick
FOC	face of concrete
FOF	face of finish
FOM	face of masonry
FOS	face of stud
FL	floor
FR	frame (ed), (ing)
FRT	fire retardant treated
FT	foot/feet
FTG	footing
GL	glaze/glue
GA	gauge
GALV	galvanized
GB	grab bar
GI	galvanized iron
GA	gauge
GWB	gypsum wall board
GYP	gypsum
HC	hollow core
HDW	hardware
HK	hook
HM	hollow metal
HORIZ	horizontal
HP	high point/
'H'	pile beam
HT	height
HVAC	heating/ventilating/ air conditioning
HK	hook
HWH	hot water heater
ID	inside diameter
IE	invert elevation
IFS	inside face of stud
IJ	isolation joint
IN	inch/inches
INSUL	insulation
JAN	janitor's closet
JG	joist girder
JST	joist
JT	joint
K	thousand
KIP	1000 #
KIT	kitchen
KJ	key joint
KSI	1000 # per sq in
LAM	laminate (d)
LF	linear foot
L	length
LAB	laboratory
LAV	lavatory
LH	left hand
LL	live load
LLH	long leg horizontal
LLV	long leg vertical
LP	low point
LT.GA	light gage
LT	light
MAS	masonry
MATL	material
MAX	maximum
MB	markerboard
MC	misc. channel
MCJ	masonry control joint
MECH	mechanical
MEZZ	mezzanine
MANUF	manufacture (er)
MH	manhole
MIN	minimum
MIR	mirror
MO	masonry opening
MT	mounted (ed), (ing)
ter	
MTL	metal
MULL	mullion
NIC	not in contract
NO	number
NOM	nominal
NT'D	noted
NTS	not to scale
OC	on center (s)
OD	outside diame
OFS	outside face of stud
OH	overhead
OPG	opening
OPH	opposite hand
OPP	opposite
PAR	parallel
P.C.	point of curvature
PL	property line, plate
PLAM	plastic laminate
PM	premolded
PNL	panel
PNT	paint (ed)
PSF	pounds per square foot
PSI	pounds per square inch
PT	point/pressure treated/ point of tangency
PV	pave (d), (ing)
PVC	poly/vinyl chloride
PVMT	pavement
PWD	plywood
QT	quarry tile
R	riser
RA	return air
RAD	radius
RB	rubber base
RCP	reinforced concrete pipe
RD	roof drain
REBAR	reinforcement bar
REF	refrigerator/ reference
REINF	reinforce (d), (ing)
REQ'D	required
RET	retaining
REV	revision (s), revised
RFG	roofing
RH	right hand
RM	room
R.M.	reinforced masonry
RO	rough opening
ROW	right of way
RTU	roof top unit
RVS	reversed (side)
SC	solid core
SCH	schedule
SD	storm drain
SECT	section
SH	shelf, shelving
SIM	similar
SPEC	specification (s)
SQ	square
SS	sanitary sewer
SST	stainless steel
ST	split tee
STL	steel
STD	standard
STOR	storage
STRUCT	structural
SV	sheet vinyl/soffit vent
SY	square yard
STL	steel
T	tread
TB	tackboard
TELE	telephone
T&G	tongue and groove
THK	thick (ness)
TOS	top of slab
TS	tubular steel
T/FTG	top of footing
T/J	top of joist
T/S	top of steel
TW	top of wall
TYP	typical
TZ	terrazzo
UR	urinal
UNO	unless noted otherwise
VAR	varnish
VB	vinyl base
VCT	vinyl composition tile
VERT	vertical VIN vinyl
VJ	v-joint (ed)
VWC	vinyl wall covering
VIN	vinyl
W	washer/width/wide flange
WB	wood base
WC	water closet
WD	wood
WH	wall hung
WIN	window
WT	weight
WTW	wall to wall
WWF	welded wire fabric
W/	with
W/O	without

MOUNTING HEIGHT NOTES

01. TYPICAL HEIGHTS: MOUNTING HEIGHTS INDICATED HEREIN ARE TYPICAL MOUNTING HEIGHTS FOR DEVICE INDICATED. HOWEVER, MOUNTING HEIGHTS FOR PRODUCTS MAY VARY BY MANUFACTURER, AND THEREFORE THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT WHERE A DISCREPANCY EXISTS BETWEEN THE INDICATED MOUNTING HEIGHT AND THE MANUFACTURER RECOMMENDED MOUNTING HEIGHT, PRIOR TO INSTALLATION OF THE DEVICE

02. ADA DEVICES: ALL DEVICES AND FIXTURES NOTED AS "ADA" OR "ACCESSIBLE" SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE AMERICANS WITH DISABILITIES ACT AND APPLICABLE CODE.

03. ELECTRICAL DEVICES: SEE ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF ELECTRICAL DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN THESE MOUNTING HEIGHTS AND THE REQUIREMENTS OF THE ELECTRICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

04. MECHANICAL/PLUMBING DEVICES: SEE MECHANICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR REQUIRED MOUNTING HEIGHT OF MECHANICAL AND PLUMBING DEVICES AND FIXTURES. WHERE CONFLICTS EXIST BETWEEN THESE MOUNTING HEIGHTS AND THE REQUIREMENTS OF THE MECHANICAL ENGINEER, THE GENERAL CONTRACTOR SHALL NOTIFY THE ARCHITECT PRIOR TO ROUGH-IN.

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ISSUE:
3.31.25 BID

JOB NO.
24001

DESCRIPTION:
DRAWING INDEX, ABBREVIATIONS, SYMBOLS & GENERAL INFORMATION

SHEET
T2.0

STATE OF ALABAMA
WILLIAM WHITTAKER
6524
REGISTERED ARCHITECT

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1A T3.0 3D View 1-BASEBID

1B T3.0 3D View 1-ALTERNATE

2A T3.0 3D View 2-BASEBID

2B T3.0 3D View 2-ALTERNATE

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24001

DESCRIPTION:
BUILDING PERSPECTIVES

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SYMBOLS LEGEND

100'	PATH OF EGRESS / EXIT DISTANCE	FEX	FIRE EXTINGUISHER - WALL MOUNTED		DRAFT STOP WALL
100	OCCUPANT LOAD AT EXIT	EXS FEX	EXISTING FIRE EXTINGUISHER - WALL MOUNTED		ONE HOUR RATED FIRE BARRIER
34"	EGRESS WIDTH AT EXIT	FEX (K)	FIRE EXTINGUISHER WALL MOUNTED - TYPE K		TWO HOUR RATED FIRE BARRIER UL DESIGN NO 419 AT TWO HOUR STUD WALL LOCATIONS. SEE UL DESIGN NO U906 FOR 2 HOUR RATING AT CMU WALL LOCATIONS
	EXIT SIGN (LIGHTED FACE SHADED)	FEC (K)	FIRE EXTINGUISHER CABINET - TYPE K		AREA INDICATED BY HATCH HAS ONE HOUR RATED CEILING
EXS FEC	EXISTING FIRE EXTINGUISHER CABINET	ROOM NAME 101	ROOM NAME AND NUMBER		
FEC	FIRE EXTINGUISHER CABINET (FULLY RECESSED, TYP. UNLESS OTHERWISE NOTED)	150 SF A 20	SQUARE FOOTAGE TYPE AND OCCUPANCY		
		EM	EMERGENCY LIGHTING		

Building information:

High-rise building per Section 403?	No
Floor > 55 feet above fire access, per Sec. 903.2.11.3?	No
Occupancy group:	B
Construction type:	V-B
Sprinklers?	No sprinklers
Proposed number of stories:	1

	Perimeter lengths (ft)	Frontage width (ft)
facing north:	112.0	30.0
facing east:	131.0	30.0
facing south:	112.0	30.0
facing west:	48.0	0
	64.0	30.0

Code version:	2021 IBC
Units:	Imperial
Frontage increase factor:	Based on IBC Tables

Allowable Areas and Heights:

Allowable area per story:	15750 square feet
Total allowable area with proposed number of stories:	15750 square feet
Maximum allowable height:	40 feet
Maximum allowable stories:	2 stories
Total allowable area with maximum number of stories:	31500 square feet

Step by step methodology:

1. Selection of 1 story, occupancy group B, type V-B (No sprinklers) results in these preliminary values:
Allowable values: height = 40 ft., 2 stories; with a tabular allowable area value, At = 9000 sq.ft. per story.
We check Section 507 and confirm that criteria for unlimited area are not met.

2. We find the frontage factor (Based on IBC Tables); the area, At, for no sprinklers is 9000 sq.ft.

The frontage increase factor (Based on IBC Tables) is found using the ratio of F/P.

F/P = 419 ft./467 ft., where P is the building perimeter length and F is the portion of P that qualifies for frontage.
We then find the minimum distance from the building, 30 ft.

The F/P percentage is 90%; we can now find the frontage increase factor, 0.75, from Table 506.3.3 or 506.3.3.1.
3. The allowable area per story, Aa, is therefore 9000 sq.ft. + 9000 sq.ft. x 0.75 = 15750 sq.ft.

4. The proposed no. of stories, I, is <= 3, so total allowable area = 1 x 15750 sq.ft. = 15750 sq.ft.

5. The max. number of stories is <= 3, so total allowable area = 2 x 15750 sq.ft. = 31500 sq.ft..

Warnings and fun facts:

NFPA 13 sprinklers are required on entire floors containing ambulatory care facilities, plus certain other floors, per Section 903.2.2 in the IBC. The frontage factor of 0.75 is based on tabular values in the 2021 IBC; selecting the choice for interpolation would result in the same value of 0.75.

Use of the International Residential Code (IRC) instead of the IBC

These notes only appear when the R-2 or R-3 occupancy group is selected.

Building information:

High-rise building per Section 403?	No
Floor > 55 feet above fire access, per Sec. 903.2.11.3?	No
Occupancy group:	A-3
Construction type:	V-B
Sprinklers?	No sprinklers
Proposed number of stories:	1

	Perimeter lengths (ft)	Frontage width (ft)
facing north:	70.0	30.0
facing east:	57.0	30.0
	13.0	0
facing south:	48.0	0
facing west:	48.0	30.0

Code version:	2021 IBC
Units:	Imperial
Frontage increase factor:	Based on IBC Tables

Allowable Areas and Heights:

Allowable area per story:	9000 square feet
Total allowable area with proposed number of stories:	9000 square feet
Maximum allowable height:	40 feet
Maximum allowable stories:	1 story
Total allowable area with maximum number of stories:	9000 square feet

Step by step methodology:

1. Selection of 1 story, occupancy group A-3, type V-B (No sprinklers) results in these preliminary values:
Allowable values: height = 40 ft., 1 stories; with a tabular allowable area value, At = 6000 sq.ft. per story.
We check Section 507 and confirm that criteria for unlimited area are not met.

2. We find the frontage factor (Based on IBC Tables); the area, At, for no sprinklers is 6000 sq.ft.

The frontage increase factor (Based on IBC Tables) is found using the ratio of F/P.

F/P = 175 ft./236 ft., where P is the building perimeter length and F is the portion of P that qualifies for frontage.
We then find the minimum distance from the building, 30 ft.

The F/P percentage is 74%; we can now find the frontage increase factor, 0.5, from Table 506.3.3 or 506.3.3.1.
3. The allowable area per story, Aa, is therefore 6000 sq.ft. + 6000 sq.ft. x 0.5 = 9000 sq.ft.

4. The proposed no. of stories, I, is <= 3, so total allowable area = 1 x 9000 sq.ft. = 9000 sq.ft.

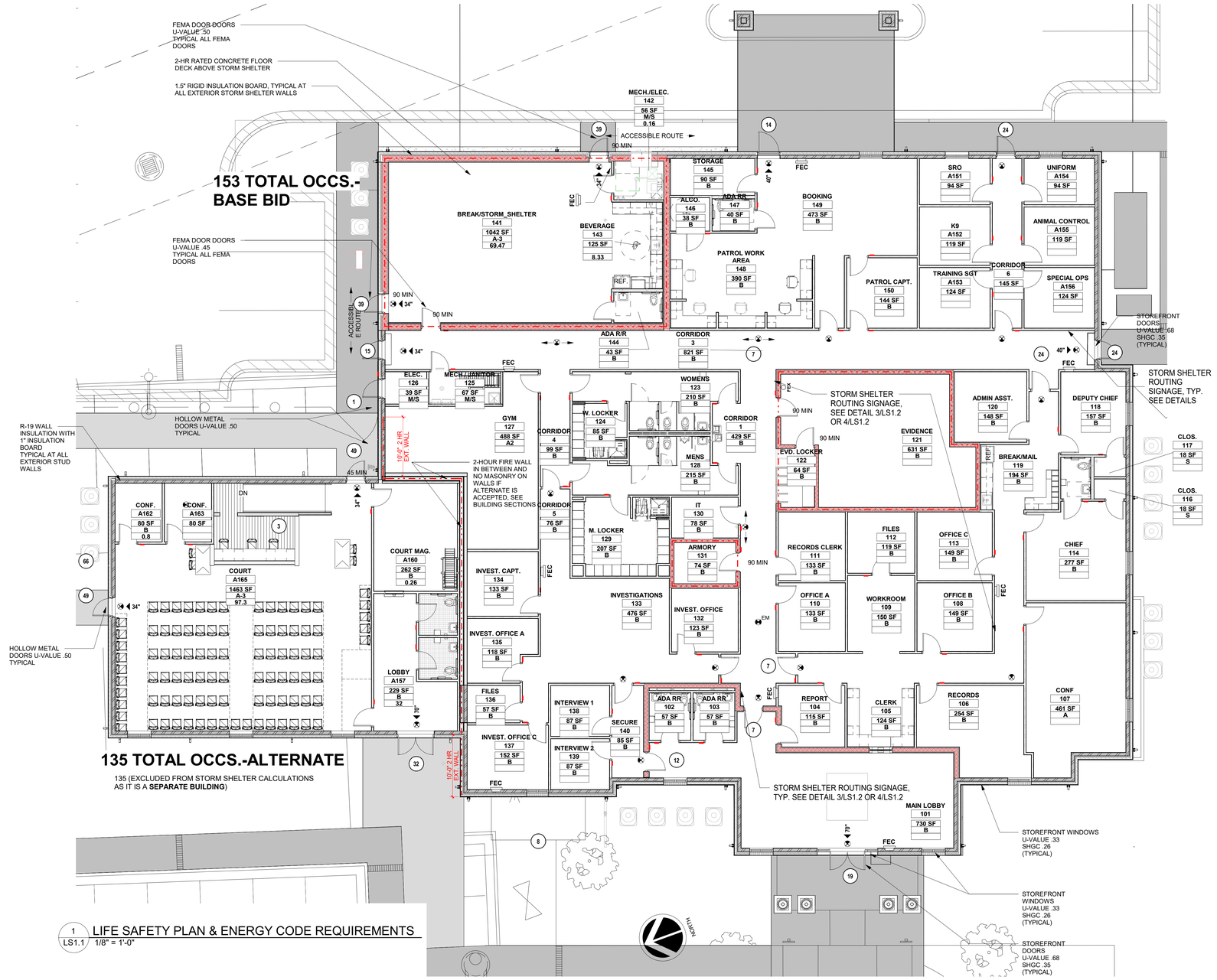
5. The max. number of stories is <= 3, so total allowable area = 1 x 9000 sq.ft. = 9000 sq.ft..

Warnings and fun facts:

NFPA 13 sprinklers are required on A-3 stories and stories below to level of discharge where either the: fire area > 12,000 square feet, occupant load >= 300, or certain other conditions exist. See Sec.903.2.1 in the IBC. The frontage factor of 0.5 is based on tabular values in the 2021 IBC; selecting the choice for interpolation would result in a larger value of 0.74.

Use of the International Residential Code (IRC) instead of the IBC

These notes only appear when the R-2 or R-3 occupancy group is selected..



1 LS1.1 LIFE SAFETY PLAN & ENERGY CODE REQUIREMENTS
1/8" = 1'-0"

BUILDING CODE DATA REFERENCES: BUSINESS OCCUPANCY

USE & OCCUPANCY TYPE, SPECIAL REQUIREMENTS PER USE

PER IBC CODE	SUMMARY
304.1	BASE BID BUILDING OCCUPANCY B - CIVIC ADMINSTRATION, POLICE STATION WITHOUT HOLDING CELLS
423.4	BASEBID BUILDING: STORM SHELTER IS REQUIRED AND IS RATED 2 HOURS AS THIS IS A CRITICAL EMERGENCY OPERATION
303.4	ALTERNATE BUILDING OCCUPANCY A-3 COURTROOM IF ALTERNATE ACCEPTED, POLICE STATION AND COURTROOM ARE CONSIDRED TWO SPERATE BUILDINGS. THEY ARE SEPERATED BY A 2 HOUR FIRE WALL WHERE CONSTRCUTION ON EACH SIDE CAN FALL AWAY

BUILDING HEIGHT AND AREAS AND TYPE OF CONSTRUCTION

506.2 TABLE	BUILDING IS CLASSIFIED TYPE VB BASE BID BUILDING OCCUPANCY B - POLICE STATION ALLOWABLE: 36,000 SF. ONE STORY ACTUAL: 13,120 SF, ONE STORY ALTERNATE BUILDING OCCUPANCY A-3 COURTROOM ALLOWABLE: 24,000 SF. ONE STORY ACTUAL: 2,610 SF. ONE STORY
509.1	THERE APPEAR TO BE NO INCIDENTAL ACCESSORY OCCUPANCIES
601 TABLE	TYPE VB DOES NOT REQUIRE RATING OF BUILDING ELEMENTS

FIRE PROTECTION REQUIREMENTS AND FEATURES

PER IBC CODE	SUMMARY
705.5 TABLE	THERE ARE NO STRUCTURES THAT APPEAR TO BE WITHIN 30' OF THE NEW FACILITY
706	FIRE WALLS TO COMPLY WITH THIS SECTION AT WALL BEWEEN BASE BID AND ALTERNATE WING
707	FIRE BARRIERS TO COMPLY WITH THIS SECTION AT WALL BEWEEN BASE BID AND ALTERNATE WING
718.2	FIREBLOCKING IS REQUIRED AND TO VERIFIED AND INSTALLED IN CONCEALED SPACES PER THIS SECTION
718.4	SPRINKLE ATTIC AND BELOW ATTIC AND THERFORE NO DRAFTSTOPPING IS REQURIED IN ATTIC
720	THERMAL AND SOUND INSUALTING MATERIALS TO COMPLY WITH THIS SECTION

INTERIOR FINISH REQUIREMENTS

PER IBC CODE	SUMMARY
805.1.2	WOOD FINISH FLOORING IS REQUIRED TO COMPLY WITH THIS SECTION INCLUDING CONTRACTOR TO PROVIDE FIREBLOCKING WOOD SLEEPERS ATTACHED TO FIRE RESISTANT ASSEMBLIES.
809.3 TABLE	REQUIRED WALL AND CEILING FINISHES ARE TO BE: CORRIDORS AND EXIT ENSLOURES FOR EGRESS - CLASS B ROOMS AND ENCLOSED SPACES - CLASS C

FIRE PROTECTION SYSTEMS AND REQUIREMENTS

PER IBC CODE	SUMMARY
903.2.1.3	SPRINKLER ENTIRE BUILDING FOR BOTH BASEBID AND ALTERNATE.
906.1 FEC	PROVIDE FIRE EXTINGUISHERS AS INDICATED ON PLANS AND PER FIRE MARSHAL REQUIREMENTS. INSTALLED AT A MAXIMUM OF 48" ABOVE THE FINISHED FLOOR TO THE TOP OF THE HANDLE. REQUIRED WALL LABELS AND MARKINGS
907.2.1	PROVIDE AN ENTIRE BUILDING FIRE ALARM SYSTEM FOR BOTH BASEBID AND ALTERNATE.

MEANS OF EGRESS AND ACCESSIBILITY

PER IBC CODE	SUMMARY
1004.1	BUSINESS GROUP B: 13,120 SQFT / 150 GROSS = **151** ASSEMBLY GRP. A-3: 3,014 SQFT / = **133**
1005.3	MINIMUM EGRESS WIDTH REQUIREMENT CALCULATIONS: GROUP B: EGRESS COMPONENTS OCCUPANCY LOAD 151 / 3 EXITS = 50.3, 50.3 X .2 = 10" MIN GROUP A-3: EGRESS COMPONENTS OCCUPANCY LOAD 133 / 2 EXITS = 66.5, 50.3 X .2 = 13.3" MIN
1005.7.1	DOORS WHEN IN ANY OPEN POSITION MAY NOT REDUCE THE REQUIRED MEANS OF EGRESS BY MORE THAN 7"

MEANS OF EGRESS AND ACCESSIBILITY

PER IBC CODE	SUMMARY
1010.2.4	APPROVED LOCKS AND LATCHES ARE PERMITTED ON THE MAIN ENTRY DOOR ONLY IF THEY COMPLY WITH THIS SECTOIN INCLUDING SIGNAGE.
1008	PROVIDE INTERNALLY ILLUMINATED EXIT SIGN, EMERGENCY LIGHT WITH BATTERY BACKUP **AS INDICATED ON ARCHITECTURAL AND ELECTRICAL DRAWINGS**
1016	COMMON PATH OF EGRESS SHALL EXCEED MORE THAN 75'
1017.2 TABLE	250' MAX EXIT ACCESS TRAVEL DISTANCE, REF. PLANS
1018 TABLE	CORRIDORS DO NOT TO REQUIRE A RATING AS THE ENTIRE BUILDING IS SPRINKLERED
1020.3	CORRIDORS TO BE MIN 44", REF PLANS
1020.5	DEAD END CORRIDORS ARE NOT TO BE MORE THAN 50'

NOTE: A FULL CODE REVIEW WAS CONDUCTED AND THIS IS ONLY A SUMMARY OF CODE REQUIREMENTS. IF A SPECIFIC CODE REFERENCE WAS NOT INDICATED IT DOES NOT ELEVATE THE OWNER AND CONTRACTOR FROM FULLY COMPLYING WITH ALL LOCAL AND STATE BUILDING CODE REQUIREMENTS AND LAWS.

2902.1 TABLE

POLICE STATION - B
- PLUMBING FIXTURES REQUIREMENTS FOR GROUP B: WATER CLOSET - 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 REMAINING WATER CLOSET PER SEX; LAVATORY - 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 REMAINING PER SEX; 1 PER 100 D.F.; 1 SERVICE SINK
- OCCUPANT LOAD 151 / 2 = 76 MALES + 76 FEMALES
- WATERCLOSETS
- 77 MEN - 50 = 2 + 17/ 50 = **2.34 MENS**
- 77 WOMEN - 50 = 2 + 17/ 50 = **2.34 WOMENS**
- LAVS
- 77 MEN / 80 = **.96 MENS**
- 77 WOMEN / 80 = **.96 WOMENS**

COURTROOM A-3
- PLUMBING FIXTURES REQUIREMENTS FOR GROUP A: WATER CLOSET - 1 PER 125 FOR MEN AND 1 PER 65 WOMEN, 1 PER LAVS - 1 PER 200
- OCCUPANT LOAD 133 / 2 = 67 MALES + 67 FEMALES
- WATERCLOSETS
- 67 MALES / 125 = **.54 MENS**
- 67 FEMALES / 65 = **1.03 WOMEN**
- LAVS
- 67 MALES / 200 = **.34 MENS**
- 67 FEMALES / 200 = **.34 WOMEN**

TOTAL PROVIDED:
WATERCLOSETS: **6 MENS**, **6 WOMENS**, **5 UNISEX**
LAVS: **4 MENS**, **4 WOMENS**, **5 UNISEX**
D.F.: **3** (INCLUDES 1 DUAL HEIGHT)
SERVICE SINK: **1**

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ISSUE:
3.31.25 BID

JOB NO.
24001

DESCRIPTION:
LIFE SAFETY PLAN & ENERGY CODE NOTES

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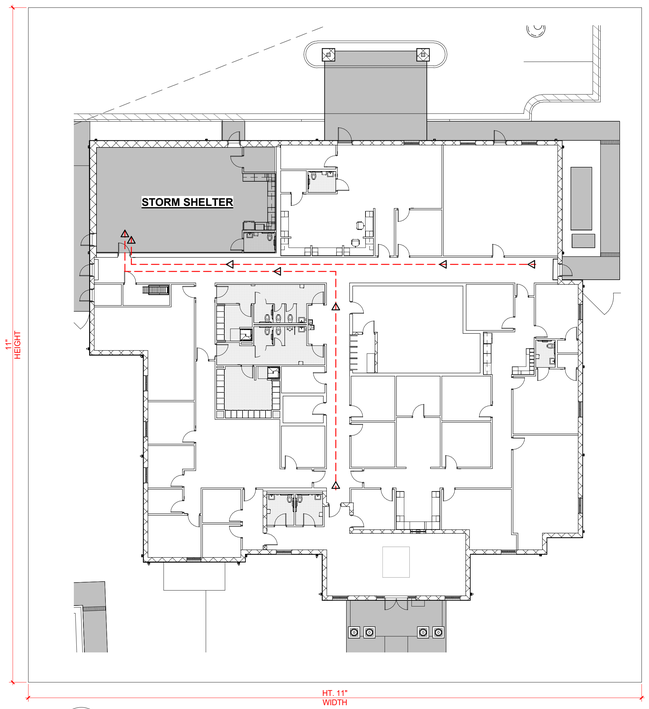
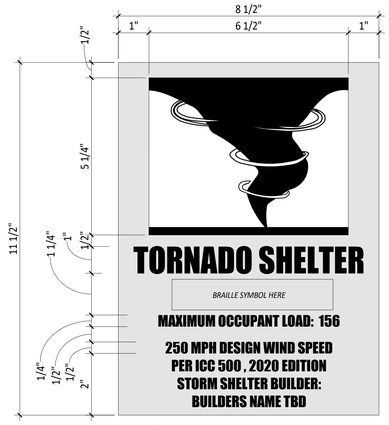


3 LS1.2 STORM SHELTER ROUTING SIGN
1/16" = 1'-0"

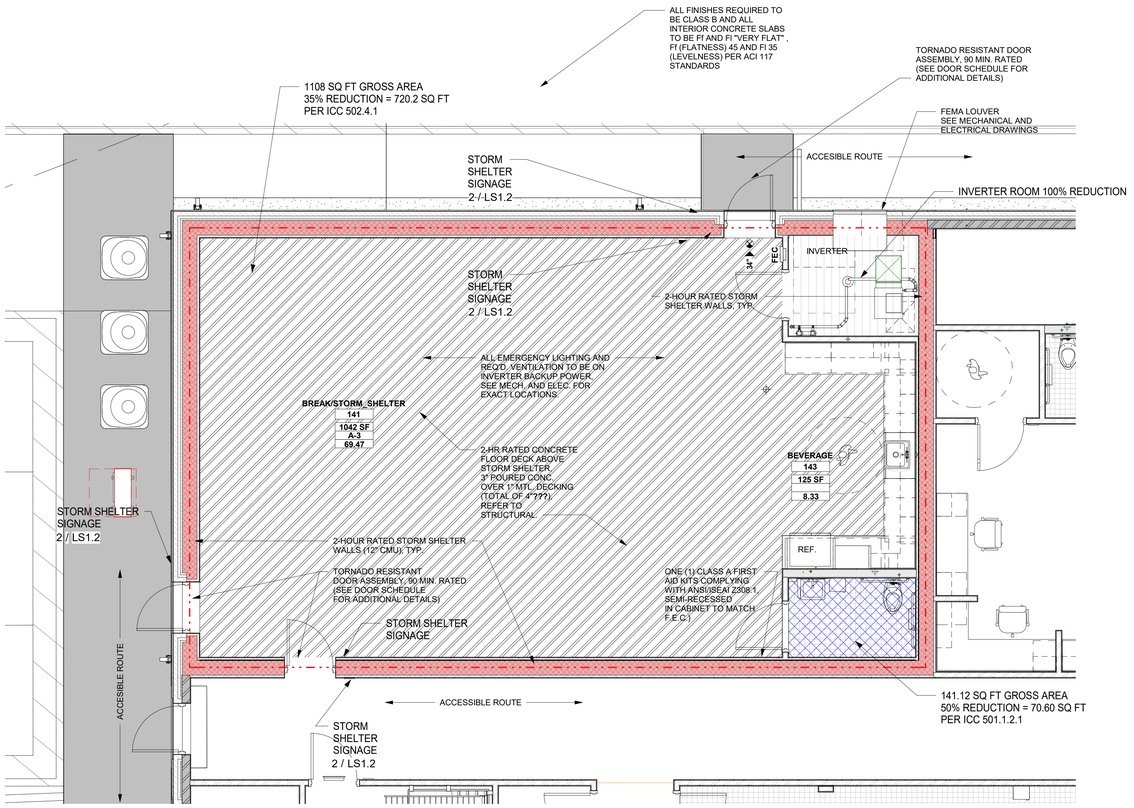


NOTES:
1. CAST ACRYLIC SIGN PER SPEC SECTION 10400
2.LOCATE 60" A.F.F TO CENTER OF SIGN
3. BACKGROUND COLOR TO BE RED WITH WHITE LETTERS - TORNADO SYMBOL TO BE BLACK WITH WHITE BACKGROUND
4. TORNADO SHELTER SIGNS TO BE PLACED OUTSIDE AT THE ENTRANCE DOOR OF EACH SHELTER AND INSIDE THE SHELTER ADJACENT TO DOOR

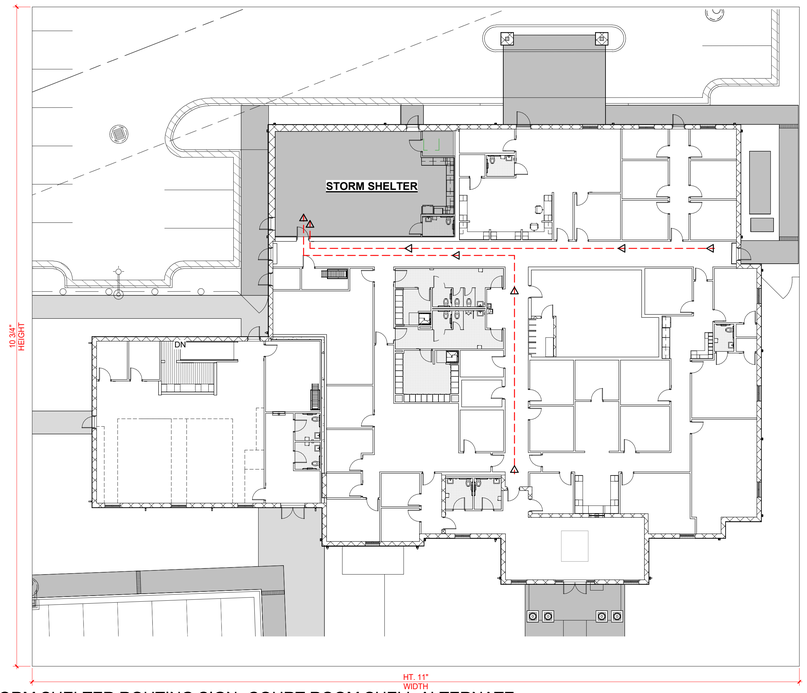
2 LS1.2 STORM SHELTER SIGNAGE
6" = 1'-0"

STORM SHELTER FLOOR AREA LEGEND	
GROSS OPEN FLOOR AREA	1,283 SF
15% REDUCTION	0 SF
35% REDUCTION	720.2 SF
50% REDUCTION	70.6 SF
100% REDUCTION INVENTER ROOM	0 SF
STORM SHELTER USABLE AREA=	790 SF

NOTE:
AREA INDICATED BY HATCH IS STORM SHELTER - PROVIDE TWO (2) HOUR RATING AT ROOF ASSEMBLY. 2 HOUR RATING IS FOR PROTECTION FROM FIRE ON THE EXTERIOR AND THEREFORE STEEL DECKING AND JOSITS ARE NOT PROTECTED FROM THE INTERIOR SIDE. THE TWO HOUR FIRE RATING IS ACCOMPLISHED BY THE THICKNESS OF THE ROOF CONCRETE.



1 LS1.2 STORM SHELTER LIFE SAFETY PLAN
1/4" = 1'-0"



4 LS1.2 STORM SHELTER ROUTING SIGN- COURT ROOM SHELL ALTERNATE
1/16" = 1'-0"

INTERNATIONAL CODE COUNCIL 500-2020: ICC/NSSA STANDARD FOR THE DESIGN AND CONSTRUCTION OF STORM SHELTERS

OCCUPANT LOAD/SHELTER SIZE CALCULATIONS

TABLE 501.1.1 OCCUPANT DENSITY
5 SF PER OCCUPANT STANDING OR SEATED
10 SF PER WHEELCHAIR ADA
502.3: ONE WHEELCHAIR SPACE PER 200 OCCUPANTS

OCCUPANT LOAD DENSITY PER TABLE 502.3
THE OCCUPANT LOAD IS CALCULATED AT 1 STUDENT PER 30 SF OF GROSS CLASSROOM AREA PLUS 10% FOR FACULTY PER BULLETIN #23-03 ON 11/23/22 BY THE DEPARTMENT OF FINANCE REAL PROPERTY, DIVISION OF CONSTRUCTION MANAGEMENT

SHELTER SIZE PER 501.1.1
THE SHELTER SIZE IS BASED ON THE OCCUPANT LOAD AND THE PARAMETERS SET FORTH IN ICC 500 502.

TOTAL USABLE AREA: 15,301 SQ FT
790 / 5 SF PER OCCUPANT (PER ICC 501.1.1 & FLOOR AREA LEGEND) = 158
CAPACITY @ 5 SF: 158 OCCUPANTS
1 WHEELCHAIR PER 200 OCCUPANTS ICC 500 TABLE 501.1.3
154 OCCUPANTS / 200 SF PER OCCUPANT = **1 WHEELCHAIR OCCUPANT REQUIRED**
10 SF PER WHEELCHAIR OCCUPANT
REDUCE OCCUPANT LOAD BY 2, AS ONE WHEELCHAIR SPACE EQUALS TWO OCCUPANTS @ 5SF EACH
(10 SF PER WHEELCHAIR - 5SF PER OCCUPANT)
158 (CAPACITY @ 5SF) - 2 = **156 MAXIMUM OCCUPANT LOAD** (PER LS1.1= 153 TOTAL OCCUPANTS= 3 EXTRA)

PLUMBING FIXTURE COUNT
2020 ICC 500, TABLE 702.3
WATER CLOSETS 1/250 FOR THE FIRST 500, 1 ADD. PER 500 OVER 500
LAVATORIES 1 PER 1,000
OCCUPANT LOAD: 3,052
2 WATER CLOSET FIXTURES (FIRST 500 = 3,052-500 = 2,552)
6 WATER CLOSETS (2,522 / 500 200/125 = 5.1 ~ 6)
4 LAVATORIES (3,052/1000 = 3.05 ~ 4)
REQUIRED AND PROVIDED:
1 WATER CLOSETS
1 LAVATORIES

REQUIRED STATEMENT OF RESPONSIBILITY FROM GENERAL CONTRACTORS AND SUBCONTRACTORS.

107.3.3 CONTRACTOR RESPONSIBILITY: EACH CONTRACTOR RESPONSIBLE FOR THE CONSTRUCTION OF A MAIN WIND-FORCE RESISTING SYSTEM OR ANY COMPONENT LISTED IN THE QUALITY ASSURANCE PLAN SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE AUTHORITY HAVING JURISDICTION, THE RESPONSIBLE DESIGN PROFESSIONAL, AND THE OWNER PRIOR TO THE COMMENCEMENT OF WORK ON THE SYSTEM OR COMPONENT. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY SHALL INCLUDE:

1. ACKNOWLEDGEMENT OF AWARENESS OF THE SPECIAL REQUIREMENTS CONTAINED IN THE QUALITY ASSURANCE PLAN.

2. ACKNOWLEDGEMENT THAT CONTROL WILL BE EXERCISED TO OBTAIN COMPLIANCE WITH THE CONSTRUCTION DOCUMENTS.

3. PROCEDURES FOR EXERCISING CONTROL WITHIN THE CONTRACTOR'S ORGANIZATION, THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS.

4. IDENTIFICATION AND QUALIFICATIONS OF THE PERSON(S) EXERCISING SUCH CONTROL AND THEIR POSITION(S) IN THE ORGANIZATION.

5. THE CONTRACTOR'S STATEMENT OF RESPONSIBILITY FORM ISSUED PER THE DEPARTMENT OF FINANCE, DEPARTMENT OF CONSTRUCTION MANAGEMENT, CAN BE FOUND IN THE SPECIFICATIONS OR A COPY CAN BE OBTAINED FROM THE ARCHITECT.

ICC 500 COMPLIANT TORNADO RESISTANT DOOR ASSEMBLY:
TORNADO RESISTANT SHUTTERS & FRAMES WITH FACTORY INSTALLED HINGES & 3-POINT LOCKSETS AND TORNADO RESISTANT DOORS & FRAMES WITH FACTORY INSTALLED HINGES & 3-POINT LOCKSETS FROM TESTED ASSEMBLIES COMPLIANT W/ ANSI/ICC500.
A THIRD PARTY LABEL SHALL BE AFFIXED TO EACH UNIT CERTIFYING THAT IT IS AN APPROVED TORNADO ASSEMBLY WITH VERIFIABLE TEST RESULTS AVAILABLE UPON REQUEST. LABEL SHALL BE FACTORY APPLIED AND CLEARLY VISIBLE.
SEE SPECIFICATION SECTION 08 1113- HOLLOW METAL DOOR AND FRAMES

SYMBOLS LEGEND

100'	PATH OF EGRESS / EXIT DISTANCE	FEX	FIRE EXTINGUISHER - WALL MOUNTED		DRAFT STOP WALL
100	OCCUPANT LOAD AT EXIT	EXS FEX	EXISTING FIRE EXTINGUISHER - WALL MOUNTED		ONE HOUR RATED FIRE BARRIER
34"	EGRESS WIDTH AT EXIT	FEX (K)	FIRE EXTINGUISHER WALL MOUNTED - TYPE K		TWO HOUR RATED FIRE BARRIER UL DESIGN NO 419 AT TWO HOUR STUD WALL LOCATIONS. SEE UL DESIGN NO U906 FOR 2 HOUR RATING AT CMU WALL LOCATIONS
	EXIT SIGN (LIGHTED FACE SHADED)	FEC (K)	FIRE EXTINGUISHER CABINET - TYPE K		
EXS FEC	EXISTING FIRE EXTINGUISHER CABINET	ROOM NAME 101	ROOM NAME AND NUMBER		AREA INDICATED BY HATCH HAS ONE HOUR RATED CEILING
FEC	FIRE EXTINGUISHER CABINET (FULLY RECESSED). TYP. UNLESS OTHERWISE NOTED)	150 SF / A / 20	SQUARE FOOTAGE TYPE AND OCCUPANCY		
		EM	EMERGENCY LIGHTING		

BILL WHITTAKER, P.C.
ARCHITECTURE
236 MARTIN STREET
ANNISTON, AL 36206
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NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA

OWNER
City of Lincoln
150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson

ARCHITECT
Bill Whittaker, P.C.
Architecture
236 Martin Street
Anniston, AL 36206
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256-441-2232
Attn: Tim Roberts

STRUCTURAL ENGINEER
Barnett, Jones, Wilson
125 18th St N
Pell City, AL 35125
205-884-5334
Attn: Jeremy Deal

MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER
Whorton Engineering, Inc.
25 Summerall Gate Road
Anniston, AL 36205
256-820-9897
Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Chestwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE:
3.31.25 BID

JOB NO.
24001

DESCRIPTION:
LIFE SAFETY-
STORM SHELTER

SHEET
LS1.2

STATE OF ALABAMA
WILLIAM WHITTAKER
6524
REGISTERED ARCHITECT

4/8/2025 2:12:35 PM

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EXISTING UTILITY NOTES

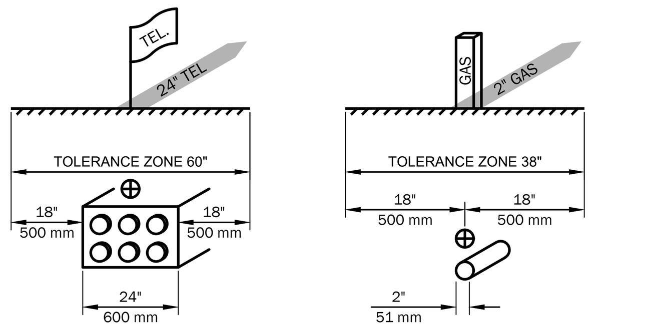
APWA UNIFORM COLOR CODE
FOR MARKING UNDERGROUND UTILITY LINES

- WHITE - Proposed excavation
- PINK - Temporary survey markings
- RED - Electric Power Lines, Cables, Conduit and Lighting Cables
- YELLOW - Gas, Oil, Steam, Petroleum or Gaseous Materials
- BLUE - Potable Water
- PURPLE - Reclaimed Water, Irrigation and Slurry Lines
- GREEN - Sewers and Drain Lines

TO HAVE UNDERGROUND UTILITY LINES LOCATED DIAL:
- 811 (INSIDE ALABAMA)
- (800) 292-8525 (INSIDE AND OUTSIDE OF ALABAMA)

WWW.AL811.COM

ALABAMA 811 Know what's below. Call before you dig.



ANY EXCAVATION WITHIN THE TOLERANCE ZONE SHOULD BE PERFORMED WITH NON-POWERED HAND TOOLS OR NON-INVASIVE METHODS UNTIL THE MARKED FACILITY IS EXPOSED. THE WIDTH OF THE TOLERANCE ZONE MAY BE SPECIFIED IN LAW OR CODE. IF NOT, 500 mm (18") IS REQUIRED FROM EACH SIDE OF THE FACILITY. THE TOLERANCE ZONE INCLUDES THE WIDTH OF THE FACILITY PLUS 18" (500 mm) MEASURED HORIZONTALLY FROM EACH SIDE OF THE FACILITY.

CITY OF LINCOLN

BUILDING/PLANNING AND DEVELOPMENT DEPARTMENT
build@lincolnal.org
150 MAGNOLIA STREET
LINCOLN, AL 35096
(205) 763-4007

ALDOT

ALDOT EAST CENTRAL REGION, DISTRICT 45
CONTACT: MR. STEPHEN BLAIR
DISTRICT 45 ADMINISTRATOR
100 CORPORATE PARKWAY
HOOVER, AL 35242
(256) 362-1240

ALDOT EAST CENTRAL REGION
CONTACT: MR. DEJARVIS LEONARD
REGION ENGINEER
100 CORPORATE PARKWAY
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GENERAL PROJECT NOTES

1. THE LOCATIONS OF THE EXISTING UNDERGROUND UTILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AS PROVIDED BY UTILITY OWNERS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES "POTHOLING" THEM BEFORE COMMENCING WORK. THE CONTRACTOR SHALL CONTACT THE ALABAMA ONE-CALL, & CITY OF LINCOLN WATERWORKS & ENGINEERING DEPARTMENT, ETC. FOR UTILITY LOCATES. IN THE EVENT OF ANY DAMAGE TO IN-PLACE UTILITIES, THEY SHALL BE REPAIRED AND REPLACED TO THE SATISFACTION OF THE ENGINEER AND THE UTILITY OWNER AT THE CONTRACTOR'S EXPENSE.
2. ANY EXISTING PROPERTY CORNERS (I.E.- IRON PIPES,CAPPED PIPES, CAPPED MONUMENTS, ETC). DISPLACED OR DAMAGED DURING CONSTRUCTION SHALL BE RESET. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND SHALL BE A FINAL PUNCH LIST/CLOSEOUT ITEM. PROJECT PROPERTY CORNERS SHALL BE STAKED AND FLAGGED BY THE OWNER'S REPRESENTATIVE.
3. THE CONTRACTOR MUST MAINTAIN ACCESSIBLE DRIVES AND PUBLIC ROADWAYS. ANY ADDITIONAL STONE, GRADING, INSTALLATION, ETC. TO MAKE SIDEWALKS, DRIVES, AND ROADWAYS ACCESSIBLE DURING CONSTRUCTION SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
4. THE CONTRACTOR SHALL KEEP THE PROJECT RIGHTS-OF-WAY CLEAN FROM TRASH AND DEBRIS. PLACEMENT/DISCARDING OF TRASH AND REFUSE IN UTILITY TRENCHES AND/OR OTHER EXCAVATIONS ASSOCIATED WITH THE PROJECT SHALL BE PROHIBITED. THE CONTRACTOR SHALL PROVIDE TRASH RECEPTACLES FOR WORKER USE. THE ROADWAYS AND SIDEWALKS SHALL BE SWEPT AND WASHED DOWN TO LIMIT THE TRACKING OF DIRT FROM THE PROJECT ONTO PUBLIC RIGHTS-OF-WAY DAILY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
5. CONFLICTS MAY ARISE BETWEEN EXISTING AND PROPOSED UNDERGROUND FACILITIES. CROSSINGS OF REQUIRED AND EXISTING GRAVITY UTILITIES SHALL BE EXCAVATED AND ELEVATIONS VERIFIED AT THE BEGINNING OF THE PROJECT BEFORE ANY UTILITIES ARE INSTALLED TO MAKE SURE THERE ARE NO CONFLICTS. SOME OF THE EXISTING UTILITY STRUCTURES WERE BURIED AND INACCESSIBLE DURING THE TOPOGRAPHIC SURVEY OF THE PROJECT AREA. WHEN THESE CONFLICTS ARE IDENTIFIED, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE OWNER'S REPRESENTATIVE. ADJUSTMENTS AS SPECIFIED BY THE OWNER'S REPRESENTATIVE SHALL BE MADE IN THE PROPOSED AND/OR EXISTING FACILITIES. IF CONFLICTS OCCUR WHILE INSTALLING GRAVITY UTILITIES AND THE CONTRACTOR DID NOT IDENTIFY ELEVATIONS AT CROSSINGS IN ADVANCE, THEN THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COSTS ASSOCIATED WITH THE CORRECTIVE ACTION, INCLUDING BUT NOT LIMITED TO, REMOVING AND INSTALLING THE MAIN AND/OR STRUCTURES. WITH THE NUMEROUS EXISTING UTILITIES ON-SITE, IT IS IMPERATIVE THAT THESE BE VERIFIED BEFORE INSTALLATION OF PROPOSED WORK.
6. AT THE END OF THE PROJECT THE CONTRACTOR SHALL POWER WASH ALL CONCRETE SURFACES (I.E., CURB AND GUTTERS, SIDEWALK, DRIVES. STORM SEWER BOXES, BRICK PAVERS, EXISTING BUILDING BRICK, ETC.), SPECIFICALLY EXISTING CONCRETE ABUTTING REQUIRED CONCRETE SURFACES WITHIN THE PROJECT RIGHT-OF-WAY TO ELIMINATE STAINING FROM EARTHEN MATERIAL, CONSTRUCTION EQUIPMENT, OILS, PAINTS, ETC. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE GIVEN.
7. THERE SHALL BE NO RAISED ASPHALT "LIP" AT RAMP LOCATIONS. THE EXISTING ROADWAY BUILDUP SHALL BE PLANED/MILLED SUFFICIENTLY TO ALLOW THE FINAL ASPHALT OVERLAY OR WEARING SURFACE TO FIT FLUSH AGAINST THE EDGE OF GUTTER ALONG THE ENTIRE PROJECT.
8. EXISTING LANDSCAPED AREAS PARALLEL TO THE PROJECT IMPACTED/DAMAGED DURING CONSTRUCTION SHALL BE RETURNED TO THEIR ORIGINAL CONDITION. THERE SHALL BE NO ADDITIONAL COMPENSATION FOR THIS WORK.
9. ALL ACCESSIBLE RAMPS AND SIDEWALKS SHALL BE ADA COMPLIANT.
10. ALL TEMPORARY STONES FOR ROADWAY, SIDEWALK, DRIVES, ETC. SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT. NO TEMPORARY STONES SHALL BE WASTED ON THE SITE SPECIFICALLY IN THE FINAL SUBGRADE LAYER AND TOPSOIL. EXCESSIVE STONE WILL INHIBIT THE GROWTH OF THE LANDSCAPE. ALL STONE SHALL BE REMOVED FROM AREAS TO RECEIVE TOPSOIL, NO EXCEPTIONS.
11. THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THE CITY OF LINCOLN, PRIVATE UTILITY COMPANIES, AND ANY OTHER OWNER OR GOVERNING AGENCY WITH EXISTING INFRASTRUCTURE OR JURISDICTION IN THIS AREA.

GENERAL UTILITY NOTES

1. THE CONTRACTOR SHALL REMOVE/RESET/RAISE ALL PRIVATE UTILITY COMPANY BOXES, MANHOLE RING AND COVER, ETC. IF THESE ITEMS ARE BEING RETAINED. ANY ITEMS DAMAGED DURING THIS WORK SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
2. WHEN INSTALLING UTILITIES, THE CONTRACTOR SHALL REFERENCE THE STORM DRAIN, SANITARY SEWER, WATER DISTRIBUTION/FIRE PROTECTION, ETC. CONSTRUCTION PLANS TO MAKE SURE INDIVIDUAL UTILITIES AND/OR POLES ARE PLACED IN THE CORRECT HORIZONTAL AND VERTICAL LOCATIONS TO MAINTAIN SPACING AND MINIMUM COVER.
3. ALL UTILITY IMPROVEMENTS SHALL BE BACKFILLED PER THE TRENCH DETAILS. (SEE SPECIAL UTILITY PROJECT NOTES)

DEMOLITION NOTES

1. CONTRACTOR SHALL COORDINATE WITH UTILITY COMPANIES (I.E. COMCAST, ALAGASCO, AT&T, CITY OF LINCOLN, ETC.) TO CONFIRM THAT THEIR SERVICES HAVE BEEN TERMINATED AND CAPPED PRIOR TO REQUIRED REMOVAL.
2. THE PROJECT DEMOLITION, CLEARING AND GRUBBING GENERAL AREAS HAVE BEEN REFLECTED ON THE DEMOLITION PLAN. THE AREA IS GENERAL IN NATURE AND IS INTENDED TO GIVE THE CONTRACTOR AN APPROXIMATE AREA OF DEMOLITION. REGARDLESS OF THE AREA SHOWN, THE CONTRACTOR SHALL DEMOLISH, CLEAN AND GRUB ALL AREAS AND EXISTING INFRASTRUCTURE (ABOVE AND BELOW GROUND) NECESSARY TO COMPLETE ALL FINAL IMPROVEMENTS AS SHOWN ON THE CIVIL, ARCHITECTURAL, LANDSCAPE/IRRIGATION, ETC. CONSTRUCTION PLANS.
3. ALL AREAS DISTURBED BY THE CONTRACTOR; INCLUDING BUT NOT LIMITED TO ACTUAL IMPROVED AREAS, LAYDOWN AREAS, AREAS DISTURBED BY MOVING EQUIPMENT SHALL BE IMPROVED PER THE REQUIREMENTS OF THE PLANS, NO EXCEPTIONS. THE HATCHED AREAS ON THE DEMOLITION PLANS REFLECT THE GENERAL PROJECT AREA. THE CONTRACTOR MAY ULTIMATELY DISTURB MORE THAN THIS HATCHED. THERE SHALL BE NO ADDITIONAL PAY FOR IMPROVING DISTURBED AREAS REGARDLESS FOR HOW IT WAS DISTURBED.
4. ANY PERMANENT AND/OR CONSTRUCTION FENCING (EXISTING OR REQUIRED PER THE PLANS) REQUIRED TO BE REMOVED/RESET FOR INSTALLATION OF SITE, UTILITY, BUILDING, ETC. IMPROVEMENTS SHALL BE DONE SO AT NO ADDITIONAL COST TO THE PROJECT AND IS CONSIDERED INCIDENTAL.

PAVING, SIGNING AND STRIPING NOTES

1. THE CONTRACTOR SHALL SAW-CUT ALL EXISTING PAVEMENTS TO BE REMOVED WITH A STRAIGHT, CLEAN REMOVAL JOINT TO ENSURE PROPOSED PAVEMENTS JOIN TO EXISTING CLEANLY.
2. ALL COMBINATION CURB AND GUTTER SHALL BE TWO (2) FEET IN WIDTH UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION PLANS. EXISTING CURB AND GUTTER VARIES IN WIDTH AND PROPOSED CURB AND GUTTER SHALL BE TAPERED TO JOIN TO IT OVER A MINIMUM DISTANCE OF FIVE (5) FEET TO ENSURE A SMOOTH TRANSITION.
3. ALL TEMPORARY AND/OR PERMANENT STRIPING, MARKINGS, ETC. SHALL BE OF COLOR AND TYPE SHOWN AND SHALL CONFORM TO THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND ALABAMA DEPARTMENT OF TRANSPORTATION SPECIFICATIONS.
4. ALL PERMANENT SIGNS AND POSTS SHALL BE OF COLOR AND TYPE SHOWN AND SHALL, UNLESS OTHERWISE NOTED ON THE PLANS.
5. ALL TEMPORARY CONSTRUCTION SIGNS SHALL MEET THE REQUIREMENTS SET FORTH IN THE LATEST EDITION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES. ALL TEMPORARY CONSTRUCTION SIGN POSTS SHALL BE #3 "U" CHANNEL POSTS, ALDOT 710B.
6. ALL TRAFFIC STRIPES SHALL BE 6" WIDE UNLESS OTHERWISE NOTED.
7. ALL DIMENSIONS ARE TO THE BACK OF CURB UNLESS OTHERWISE NOTED.
8. THE CONCRETE SIDEWALK JOINTING PATTERN SHOWN SHALL BE REFERENCED WHEN POURING THE SIDEWALKS. THE LENGTH OF JOINTING PATTERN SHALL MATCH THE WIDTH OF SIDEWALK. THE CONTRACTOR SHALL NOTE THE SCORING PATTERNS SHOWN ON THE SITE LAYOUT FOR THE FINAL CONCRETE IMPROVEMENTS. HE SHOULD NOTE THAT THESE PATTERNS SERVE TWO PURPOSES: (1) AESTHETICS (2) PROVIDE CONTROL CRACKING. IT IS VERY IMPORTANT THAT THE CONTRACTOR STAKE OUT HIS CONTROL JOINTS SPECIFICALLY RELATED TO CONCRETE PAVEMENTS IN RADIUS. WHEN SAW-CUTTING PAVEMENTS ALONG CENTERLINE IN A RADIUS, THE CONTRACTOR SHALL PROVIDE THE SCORING PATTERN SHOWN AND TO THE DESIGN DEPTH REQUIRED FOR CONTROL JOINTS.
9. CONCRETE CONTROL JOINTS SHALL BE MEASURED FOR DEPTH. THEY MUST BE INSTALLED PROPERLY FOR CONTROL CRACKING OF THE CONCRETE PAVEMENT. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED/REPLACED AT THE CONTRACTOR'S EXPENSE.

STORM DRAIN NOTES

1. STORM DRAIN STRUCTURES MEASURING FOUR (4) FEET OR GREATER IN DEPTH FROM THE FINISHED TOP OF THE STORM STRUCTURE TO THE INVERT OUT ELEVATION SHALL HAVE STEPS INSTALLED.
2. ALL REQUIRED STORM SEWER STRUCTURE RING AND COVER TOPS SHALL MATCH TOP OF CURB, ROADWAY AND/OR VEGETATED FINISHED GRADE ELEVATIONS UNLESS NOTED OTHERWISE ON THE CONSTRUCTION PLANS. ANY ADJUSTMENTS TO LEVEL RING AND COVER TOP ELEVATIONS WITH FINAL ASPHALT, SODDING, ETC. SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF THE STORM DRAIN STRUCTURE INSTALLATION.
3. WHEN ROOF DRAINS ARE TIED TO STORM DRAIN STRUCTURES, DRAIN INVERTS SHALL BE INSTALLED AT THE TOP ELEVATION OF OTHER STORM DRAIN PIPING OR AS HIGH AS THEIR REQUIRED SLOPES AND COVER WILL ALLOW. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORING DRAINAGE STRUCTURES TO TIE IN THE ROOF DRAINS.
4. THE CONTRACTOR MAY USE PRECAST CONCRETE STORM STRUCTURES FOR THE STANDARD/SPECIAL STRUCTURES REQUIRED ON THE CONSTRUCTION PLANS.
5. THE CONTRACTOR SHALL GROUT AS NECESSARY ALL LIFTING HOLES IN STORM DRAIN PIPING SECTIONS BEFORE BACKFILL. THIS SHALL BE REQUIRED REGARDLESS IF PREFABRICATED LIFTING PLUGS ARE USED OR NOT. THE COMBINATION OF THE TWO (2) IS RECOMMENDED TO ENSURE THAT THE LIFTING HOLES DO NOT REMAIN OPEN ALLOWING EARTHEN MATERIAL TO ENTER THE DRAIN POSSIBLY CAUSING A SINK HOLE AT THE SURFACE.

SANITARY SEWER NOTES

1. THE CITY OF LINCOLN, THE OWNER'S REPRESENTATIVE, AND LOCAL RESIDENTS SHALL BE NOTIFIED A MINIMUM OF 48 HOURS IN ADVANCE BEFORE ANY SANITARY SEWER IMPROVEMENTS BEGIN.
2. ALL REQUIRED SANITARY STRUCTURE TOPS WITHIN A PAVED AREA SHALL MATCH ASPHALT FINISHED GRADES. TOPS INSTALLED TOO HIGH SHALL BE RESET AT NO ADDITIONAL COST TO THE PROJECT.
3. ALL SANITARY SEWER MAINS AND SERVICE CONNECTIONS SHALL HAVE DUCTILE IRON FITTINGS ONLY AS PER THE DETAILS REGARDLESS OF THE MAIN OR LATERAL TYPE (PVC OR D.I.).
4. ANY EXISTING SANITARY STRUCTURES RETAINED AS PART OF THIS PROJECT SHALL BE THOROUGHLY CLEANED, WALLS WIPED WITH GROUT TO MAKE WATER TIGHT, INVERTS FORMED IF NECESSARY, EXISTING PIPING/DRAINS REGROUTING, ETC.
5. CONICAL MANHOLE SECTIONS AND MANHOLE RINGS AND COVERS SHALL BE ORIENTED AS PER THE PLANS AND AS DIRECTED BY THE OWNER'S REPRESENTATIVE TO ENSURE THE BEST ACCESS INTO THE MANHOLE. FAILURE TO ORIENT CORRECTLY SHALL RESULT IN REORIENTATION AT THE CONTRACTOR'S EXPENSE.
6. WHEN TYING TO EXISTING UTILITY PIPING WITH SANITARY SEWER STRUCTURES, THE CONTRACTOR SHALL USE EXTREME CARE ONLY EXCAVATING AND REMOVING THE NECESSARY AMOUNT OF PIPING TO INSTALL THE REQUIRED STRUCTURE. DAMAGE TO THE EXISTING UTILITY PIPING DUE TO OVEREXCAVATION OR POOR EXCAVATION WORK SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REMOVE/REPLACE AT HIS COST.
7. THE CONTRACTOR SHALL KEEP ALL LIVE SANITARY MAINS AND LATERALS FLOWING CONTINUOUSLY BY WHATEVER MEANS NECESSARY INCLUDING BYPASS PUMPING, TIE-INS AT NIGHT, OR ON WEEKENDS, ETC.
8. ALL MANHOLE AND MAIN INSTALLATIONS SHALL BE TESTED. TESTING IS CONSIDERED INCIDENTAL TO THE PROJECT.

WATER DISTRIBUTION NOTES

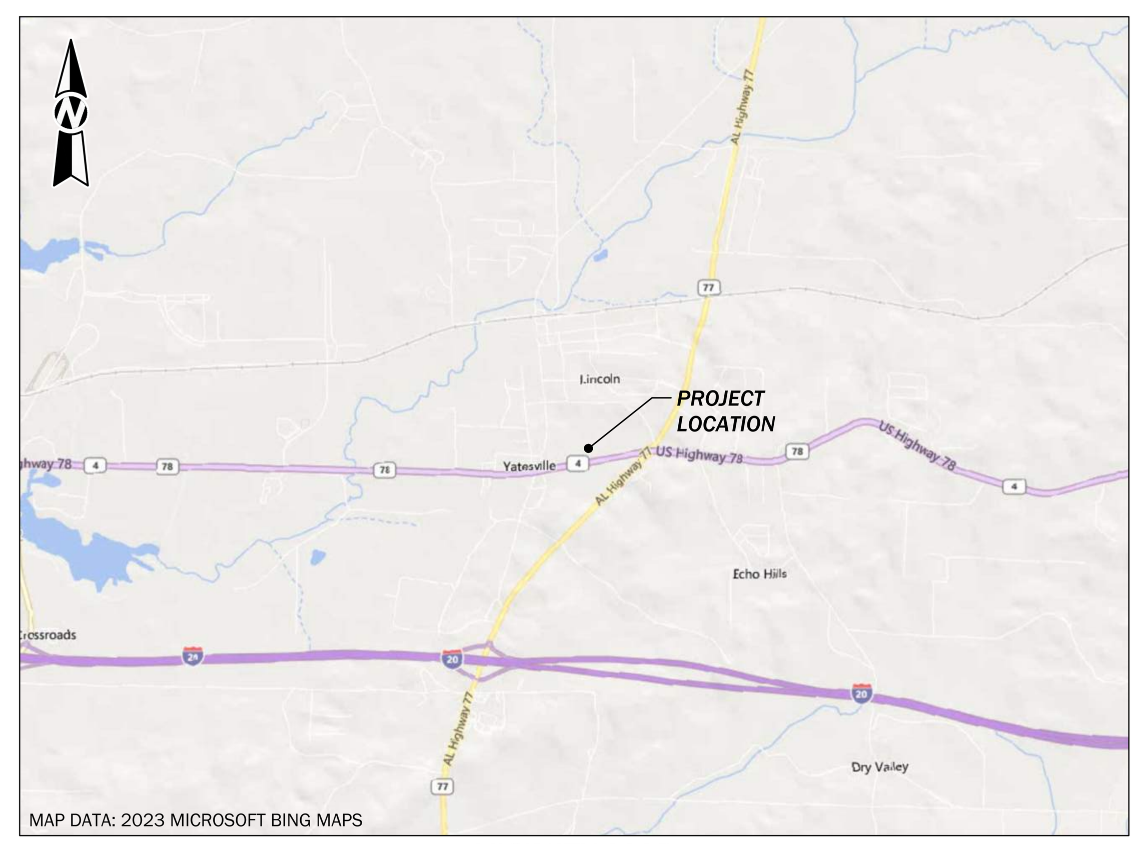
1. WATER SYSTEM EXPANSION SHALL BE PERFORMED IN ACCORDANCE WITH THE CITY OF LINCOLN WATER DISTRIBUTION SYSTEM ENGINEERING STANDARDS.
2. THE CITY OF LINCOLN OFFICE OF THE CITY ENGINEER WATER DISTRIBUTION DIVISION, AND THE OWNER'S REPRESENTATIVE SHALL BE NOTIFIED A MINIMUM OF 48 HOURS PRIOR TO COMMENCEMENT OF ANY WATER DISTRIBUTION IMPROVEMENTS.
3. THE CONTRACTOR SHALL VERIFY THE EXISTING WATER MAIN LOCATIONS PRIOR TO INSTALLING THE REQUIRED WATER MAINS. THESE LOCATIONS SHALL BE PROVIDED TO THE OWNER'S REPRESENTATIVE FOR VERIFICATION.
4. ALL MAINS AND SERVICE LINES SHALL HAVE 36" MINIMUM COVER. ALL MAINS AND SERVICE LINES WITHIN ALABAMA DEPARTMENT OF TRANSPORTATION R.O.W. SHALL HAVE 48" MINIMUM COVER.
5. DOMESTIC SERVICES, BACKFLOW PREVENTERS, METERS, ETC. SHALL BE INSTALLED ACCORDING TO CITY OF LINCOLN STANDARDS AND THE STANDARD DETAILS.
6. SERVICE LINES SHALL BE HDPE SDR 9 AND WATERMAINS SHALL BE HDPE SDR 9 (HDPE SDR 11 UNDER ROADWAYS) UNLESS NOTED OTHERWISE ON THE PLANS.
7. ANY INSTALLATION REQUIRING THE USE OF PVC PIPE SHALL INCLUDE BEDDING AND ENCASING THE PIPING WITH STONE GRADATION AS PER THE STANDARD DETAILS AND WATER DISTRIBUTION REQUIREMENTS.
8. THE CONTRACTOR SHALL COORDINATE WATERMAIN AND SERVICE LINE INSTALLATIONS WITH UTILITY CORRIDOR INSTALLATION. PROPER CLEARANCE BETWEEN UTILITIES SHALL BE REQUIRED AT ALL TIMES. A CONTINUOUS, STRAIGHT RUN OF UTILITY CONDUITS MUST BE MAINTAINED (I.E. - NO ABRUPT VERTICAL DEFLECTION WITH FITTINGS). WATERMAIN AND SERVICE LINE DEPTHS MUST BE ANTICIPATED, SO UTILITY CORRIDOR CAN DEFLECT GRADUALLY.
9. NO GLUE JOINT FITTINGS SHALL BE ALLOWED ON THE WATER DISTRIBUTION SYSTEM.
10. ALL WATER DISTRIBUTION MAINS SHALL HAVE DUCTILE IRON FITTINGS ONLY.
11. ALL GATE VALVES INSTALLED ON THE WATER DISTRIBUTION SYSTEM SHALL BE RESILIENT WEDGE VALVES TO ENSURE EASE OF OPERATION AND RELIABILITY.

GRADING AND STAKING NOTES

1. ALL DISTURBED AREAS SHALL HAVE A MINIMUM OF 6" TOPSOIL APPLIED, BE SEEDED AND MULCHED, AND/OR SODDED AS SOON AS FINAL GRADING IS COMPLETE. REFER TO EROSION CONTROL NOTES FOR TEMPORARY SEEDING AND MULCHING DURING GRADING OPERATIONS. ALL ENGINEERED FILL MATERIALS SHALL BE REVIEWED AND APPROVED BY THE OWNER'S REPRESENTATIVE WELL IN ADVANCE OF FILL OPERATIONS. THE CONTRACTOR SHALL IDENTIFY ALL BORROW SOURCES FOR PD SAMPLES TO BE TAKEN AND EVALUATED. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS AS PER THE GEOTECHNICAL REPORT.
2. THE CONTRACTOR SHALL CLEAR AND GRUB AS NECESSARY WHERE GRADING OPERATIONS ARE TO BE PERFORMED AS SHOWN.
3. BEFORE FINAL GRADING THE CONTRACTOR SHALL MAKE SURE UTILITIES INCLUDING STORM DRAIN, SANITARY, WATER DISTRIBUTION AND FIRE PROTECTION, ELECTRICAL, VIDEO, IRRIGATION, ETC. IMPROVEMENTS HAVE BEEN INSTALLED.
4. THE CONTRACTOR SHALL NOTE CHANGE IN GRADES AND REQUIRED RAMPS WHEN LAYING OUT SCORING AND HANDICAP RAMPS. ALL ADA ACCESSIBLE RAMP GRADES AND SIDEWALK CROSS SLOPE SHALL MEET ADA REQUIREMENTS.
5. THERE SHALL BE NO DEBRIS (ROOTS, ROCKS, ETC.) IN THE TOPSOIL LARGER THAN 1" IN DIAMETER. THERE ALSO SHALL BE NO WASTED TEMPORARY GRAVEL, CONCRETE, OR ANY OTHER BUILDING MATERIALS FOUND IN THE TOPSOIL. ANY FOUND DEBRIS SHALL BE REMOVED IMMEDIATELY.
6. THERE SHALL BE NO RAISED ASPHALT "LIP" AT RAMP LOCATIONS. THE EXISTING ROADWAY BUILDUP SHALL BE PLANED/MILLED SUFFICIENTLY TO ALLOW THE FINAL ASPHALT OVERLAY OR WEARING SURFACE TO FIT FLUSH AGAINST THE EDGE OF GUTTER ALONG THE ENTIRE PROJECT.
7. THE CONTRACTOR SHALL REVIEW THE GEOTECHNICAL REPORT PREPARED BY TERRACON (PROJECT NO. E1245042) FOR THIS PROJECT IN ITS ENTIRETY.
8. ALL EMBANKMENT FILL AND BORROW EXCAVATION MATERIALS SHALL BE COMPACTED IN LOOSE 8" LIFTS TO 98%, ASTM D 698 MINIMUM AS DIRECTED BY THE GEOTECHNICAL REPRESENTATIVE. THE GEOTECHNICAL REPORT COMPACTION REQUIREMENTS SHALL BE THE REQUIREMENT FOR THE PROJECT.

EROSION CONTROL NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING COVERAGE UNDER GENERAL NPDES PERMIT NO. ALR100000, INCLUDING THE ASSOCIATED FEES, FOR THIS PROJECT IN THE COMPANY'S NAME AND PROVIDING THE QUALIFIED CREDENTIALED PROFESSIONAL (QCP) AND/OR QUALIFIED CREDENTIALED INSPECTOR (QCI) TO PERFORM INSPECTIONS AS REQUIRED BY THE PERMITS. THE COSTS OF INSPECTIONS AND ASSOCIATED DOCUMENTATION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE THE NECESSARY BEST MANAGEMENT PRACTICES (BMP'S) AND PERFORM THE WORK AS REQUIRED BY THE QCP/QCI TO ENSURE PERMIT REQUIREMENTS ARE MET. THE CONTRACTOR SHALL PROVIDE THE OWNER'S REPRESENTATIVE WITH STORM WATER MONITORING REPORTS WITHIN 48 HOURS OF EACH RAIN EVENT WHICH REQUIRES MONITORING. THE OWNER RETAINS THE RIGHT TO SUPPLEMENT THE CONTRACTOR'S FORCES AT THE CONTRACTOR'S EXPENSE IN THE EVENT THE CONTRACTOR DOES NOT SATISFY THE NPDES INSPECTION COMMENTS. UPON COMPLETION OF THE PROJECT AND STABILIZATION OF THE SITE, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO TERMINATE THE NPDES PERMIT. ALL DAILY INSPECTIONS AND REPORTS OF THE SITE SHALL BE COMPLETED BY A QCI OR QCP. THE QCP/QCI SHALL INSPECT ALL BMP'S DAILY AND KEEP DAILY INSPECTION REPORTS IN A LOG BOOK THAT SHALL BE SUBMITTED FOR REVIEW BY THE OWNER'S REPRESENTATIVE PRIOR TO APPROVAL OF THE MONTHLY PAY REQUEST.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR USING BEST MANAGEMENT PRACTICES (BMP'S) FOR EROSION AND SEDIMENT CONTROL THROUGHOUT CONSTRUCTION. AN EROSION CONTROL PLAN IS PROVIDED AS A MINIMUM GUIDE FOR PROVIDING STRUCTURAL BMP'S. PHASING, TEMPORARY GRASSING, AND OTHER METHODS AS PROVIDED IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORM WATER MANAGEMENT, SHALL BE UTILIZED TO MINIMIZE EROSION. NO EXTRA COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR MAINTAINING EROSION CONTROL ITEMS OR ADDITIONAL EROSION CONTROL ITEMS REQUIRED TO COMPLY WITH THE NPDES PERMIT.
3. THE DESIGN OF THE CBMPP, IF REQUIRED, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR'S QCP. IN THE EVENT THAT SEDIMENT BASINS ARE REQUIRED BY THE DESIGN, NO ADDITIONAL COMPENSATION SHALL BE GIVEN TO THE CONTRACTOR FOR STOCKPILING MATERIAL TO LATER FILL THE BASINS, ADDITIONAL GRADING TO FILL THE BASINS, TEMPORARY PIPING, RESEEDING AND REMULCHING, RESTORING PERMANENT DRAINAGE STRUCTURES AND GRADES TO THEIR PERMANENT REQUIREMENTS, OR ANY OTHER ITEMS OF WORK THAT ARE REQUIRED BY THE PHASING OF CONSTRUCTION OR THE CBMPP.
4. ANY FINES INCURRED DUE TO FAILURE TO MAINTAIN EROSION CONTROL MEASURES SHALL BE PAID FOR BY THE CONTRACTOR. ANY ADDITIONAL WORK AND MATERIALS REQUIRED TO COMPLY WITH ANY VIOLATIONS SHALL BE AT THE CONTRACTOR'S EXPENSE.
5. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MAINTAIN AND KEEP CLEAN ALL EROSION & SEDIMENT CONTROL STRUCTURES UNTIL THE NPDES PERMIT IS ACCEPTED AS COMPLETE BY THE QCP & ADEM, AND IS TERMINATED BY THE CONTRACTOR.
6. SILT FENCES SHALL HAVE SEDIMENT DEPOSITS REMOVED IF THEY REACH A DEPTH OF FIFTEEN INCHES (15") OR 1/2 THE HEIGHT OF THE FENCE. SEDIMENT REMOVED FROM THE SILT FENCE SHALL BE PLACED ONSITE AND STABILIZED.
7. THE PROJECT AREA SHALL REMAIN CLEAN AT ALL TIMES. THE CONTRACTOR SHALL USE WHATEVER MEANS NECESSARY TO KEEP THE PROJECT AREA CLEAN, INCLUDING MOTORIZED STREET SWEEPERS, WATER AND VACUUM TRUCKS, HAND SWEEPING AND SHOVELING, ETC. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
8. THE CONTRACTOR SHALL IDENTIFY WORK AREA ENTRANCE/EXIT LOCATIONS FOR EQUIPMENT AND INSTALL TEMPORARY GRAVEL DRIVES TO REDUCE TRACKING ONTO PUBLIC RIGHT OF WAY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING ALL STREETS CLEAN OF ANY SEDIMENT FROM THE CONSTRUCTION SITE ON A DAILY BASIS, NO EXCEPTIONS.
9. ALL DISTURBED AREAS, INCLUDING THE EARTHEN STOCKPILES, SHALL BE MULCHED UPON COMPLETION OF GRADING OPERATIONS. ADEM REGULATIONS REQUIRE ALL DISTURBED AREAS NOT UNDERGOING ACTIVE DISTURBANCE OR ACTIVE CONSTRUCTION FOR LONGER THAN THIRTEEN (13) DAYS TO BE PROVIDED WITH TEMPORARY GROUND COVER.
10. THE CONTRACTOR SHALL INSTALL WATTLES, SANDBAGS, AND/OR SILT FENCE TRENCHED THROUGH PAVEMENT AFTER SAW-CUTTING THE ASPHALT TO AVOID RUNOFF INTO OTHER ROADWAYS, DRIVES, AND AREAS PARALLEL AND ADJACENT TO THE PROJECT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ADDRESS THIS ISSUE EACH DAY INCLUDING WEEKENDS AND SPECIFICALLY PRE AND POST RAIN EVENTS.
11. WATTLES FOR SEDIMENT CONTROL SHALL HAVE A MINIMUM DIAMETER OF 20".
12. THE CONTRACTOR SHALL INSTALL STONE AND/OR STABILIZE ENTRANCE/EXIT, SIDEWALKS, ROADWAY/DRIVES, ETC. AS NECESSARY. ALL STONES FOR CONSTRUCTION ENTRANCE/EXIT , SIDEWALKS, ROADWAY/DRIVES, ETC. ARE CONSIDERED INCIDENTAL REGARDLESS THE NUMBER OF TIMES FRESH STONE IS REQUIRED FOR EROSION CONTROL MEASURES. AT THE END OF THE PROJECT, ALL STONE SHALL BE REMOVED AND NOT WASTED ON THE PROJECT SITE.
13. WHEN INSTALLING SILT FENCE OR OTHER BMP'S, THE CONTRACTOR SHALL USE THE LOCATIONS PROVIDED ON THE DRAWINGS OR THE CBMPP. WASTEFUL AND/OR POORLY PLANNED INSTALLATIONS SHALL NOT RECEIVE ADDITIONAL PAY FOR REINSTALLATION AFTER MOVING TO ANOTHER PHASE OF THE WORK.
14. ALL INLETS/STRUCTURES SHALL BE COVERED BY DOMED INLET PROTECTORS DURING CONSTRUCTION TO AVOID SEDIMENT RUNOFF. THESE UNITS SHALL BE KEPT CLEAN DURING CONSTRUCTION. IF THE INLET/STRUCTURE IS TOO LARGE, THEN SEDIMENT LOGS OR SILT FENCE SHALL BE USED TO PROTECT THE INLET.
15. ALL MEANS NECESSARY SHALL BE USED TO ESTABLISH TEMPORARY EROSION CONTROL INCLUDING EROSION CONTROL NETTING, SODDING, REPEATED SEEDING AND MULCHING, ETC.
16. A BEST MANAGEMENT PLAN SHALL AT A MINIMUM RETURN ALL EXPOSED OR DISTURBED AREAS TO ORIGINAL OR BETTER CONDITION WITH AT LEAST A GOOD STAND OF GRASS AND/OR SOD. EROSION CONTROL MEASURES INCLUDING CONSTRUCTION EXIT PADS, SHOWN HEREIN TO PREVENT EROSION AND SEDIMENT RUNOFF ARE A MINIMUM AND SHALL NOT BE INTERPRETED AS BEING ALL THAT IS REQUIRED FOR THE PROJECT. CONTRACTOR SHALL BE MINDFUL DURING ALL PHASES OF CONSTRUCTION AND INSTALL AND UTILIZE ANY AND ALL ADDITIONAL ITEMS NECESSARY TO CONTROL ALL EROSION AND SEDIMENTATION ON THE PROJECT AT ALL TIMES AS REQUIRED BY ADEM AND THE ALABAMA HANDBOOK FOR EROSION CONTROL AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS, MOST RECENT EDITION.
17. OWNER'S REPRESENTATIVE RESERVES THE RIGHT TO DIRECT ADDITIONAL ITEMS OR REVISE IN-FIELD PLACEMENT OF EROSION CONTROL ITEMS AS DEEMED NECESSARY DURING ALL PHASES OF THE PROJECT.
18. CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING OUT ALL SANITARY OR STORM SEWER MAINS AND MANHOLES ON A CONTINUAL BASIS IF CONSTRUCTION DEBRIS ENTERS SUCH MAINS. IN NO EVENT SHALL CONTRACTOR DISPOSE OF ANY DEBRIS OR MATERIALS IN SEWERS. CONTRACTOR SHALL IMMEDIATELY REMOVE ANY SUCH DEBRIS OR MATERIAL TO SATISFACTION OF OWNER'S REPRESENTATIVE.
19. CONTRACTOR SHALL BE OBSERVANT OF FORECASTED RAIN EVENTS AND PROMPTLY REPAIR, MAINTAIN, INSTALL NECESSARY EROSION CONTROL ITEMS PRIOR TO SUCH RAIN EVENTS. CONTRACTOR SHALL PROMPTLY MEDIATE, CLEAN UP, REMOVE ANY EROSION OR SEDIMENTATION FROM ALL EROSION CONTROL ITEMS, STRUCTURES, TRAPS, BASINS, ETC. AND REPAIR, MAINTAIN, RE-INSTALL, SUPPLEMENT SUCH IMMEDIATELY FOLLOWING EACH RAIN EVENT OR AS DIRECTED BY OWNER'S REPRESENTATIVE.
20. ALL CONCRETE WASHOUT WATER SHALL BE COLLECTED IN A LEAK PROOF CONTAINER SO THAT IT DOES NOT REACH THE SOIL SURFACE AND THEN MIGRATE TO SURFACE WATERS OR INTO GROUNDWATER. ALL OF THE COLLECTED CONCRETE WASHOUT WATER AND SOLIDS SHALL BE RECYCLED.



VICINITY MAP

PROJECT LEGEND

Symbol	Description
	REQ'D PROPERTY LINE
	REQ'D RIGHT-OF-WAY
	REQ'D CHAIN LINK FENCE
	REQ'D IRON FENCE
X	REQ'D WIRE FENCE
	REQ'D WOOD FENCE
150	REQ'D CONTOUR 5' INTERVAL
149	REQ'D CONTOUR 1' INTERVAL
TW±170.00 TC170.00 FG150.00 BW±170.00 FL150.00 EP150.00	REQUIRED TOP OF WALL, TOP OF CURB, FINISH GRADE BOTTOM OF WALL, FLOWLINE & EDGE OF PAVEMENT
PSS	REQ'D SANITARY SEWER MAIN
PFM	REQ'D SANITARY SEWER FORCE MAIN
PSD	REQ'D STORM DRAIN
PWM	REQ'D WATER MAIN
PFL	REQ'D FIRE LINE
PGM	REQ'D GAS MAIN
POE	REQ'D OVERHEAD ELECTRICAL
PUE	REQ'D UNDERGROUND ELECTRICAL
POC	REQ'D OVERHEAD CABLE TELEVISION
PUC	REQ'D UNDERGROUND CABLE TELEVISION
POT	REQ'D OVERHEAD TELEPHONE
PUT	REQ'D UNDERGROUND TELEPHONE
PTS	REQ'D TRAFFIC SIGNAL LINE
PUF	REQ'D UNDERGROUND FIBER OPTIC
TDOT	REQ'D DEPARTMENT OF TRANSPORTATION
IRR IRR	REQ'D IRRIGATION
	REQ'D SANITARY SEWER MANHOLE
	REQ'D SANITARY SEWER CLEANOUT
	REQ'D STORM JUNCTION BOX
	REQ'D STORM DOUBLE WING INLET
	REQ'D STORM SINGLE WING INLET
	REQ'D STORM YARD INLET
	REQ'D STORM GRATE INLET
	REQ'D STORM DRAIN BASIN
	REQ'D STORM HEADWALL
RDC	REQ'D ROOF DRAIN COLLECTOR
	REQ'D WATER VALVE
	REQ'D FIRE HYDRANT
M	REQ'D WATER METER
DC	REQ'D DETECTOR CHECK & VAULT
IRR	REQ'D IRRIGATION METER
PRV	REQ'D PRESSURE REDUCING VALVE
BFP	REQ'D BACKFLOW PREVENTER
	REQ'D POST MOUNTED SIAMESE CONNECTION
G	REQ'D GAS METER
G	REQ'D GAS VALVE
	REQ'D POWER POLE
	REQ'D GUY ANCHOR
	REQ'D LIGHT POLE
	REQ'D PEDESTRIAN LIGHT
	REQ'D STREET LIGHT
	REQ'D PEDESTRIAN STREET LIGHT
MB	REQ'D MAILBOX
	REQ'D SIGN

SURVEY LEGEND

Symbol	Description
	EXISTING BOUNDARY LINE
	EXISTING RIGHT-OF-WAY
	EXISTING PROPERTY LINE
	EXISTING SUBDIVISION LOT LINE
	EXISTING CHAIN LINK FENCE
	EXISTING IRON FENCE
X	EXISTING WIRE FENCE
	EXISTING WOOD FENCE
150	EXISTING CONTOUR 5' INTERVAL
149	EXISTING CONTOUR 1' INTERVAL
EX±150.0	EXISTING SURFACE ELEVATION
ESS	EXISTING SANITARY SEWER MAIN
EFM	EXISTING SANITARY SEWER FORCE MAIN
ESD	EXISTING STORM DRAIN
EWM	EXISTING WATER MAIN
EGM	EXISTING GAS MAIN
EOE	EXISTING OVERHEAD ELECTRICAL
EUE	EXISTING UNDERGROUND ELECTRICAL
EOC	EXISTING OVERHEAD CABLE TELEVISION
EUC	EXISTING UNDERGROUND CABLE TELEVISION
EOT	EXISTING OVERHEAD TELEPHONE
EUT	EXISTING UNDERGROUND TELEPHONE
ETS	EXISTING TRAFFIC SIGNAL LINE
EUF	EXISTING UNDERGROUND FIBER OPTIC
SS	EXISTING SANITARY SEWER MANHOLE
	EXISTING SANITARY SEWER CLEANOUT
SD	EXISTING STORM MANHOLE
	EXISTING STORM DOUBLE WING INLET
	EXISTING STORM SINGLE WING INLET
	EXISTING STORM YARD INLET
	EXISTING STORM GRATE INLET
	EXISTING STORM JUNCTION BOX
	EXISTING WATER VALVE
W	EXISTING WATER METER
PRV	EXISTING PRESSURE REDUCING VALVE
IRR	EXISTING IRRIGATION METER
BFP	EXISTING BACKFLOW PREVENTER
	EXISTING FIRE HYDRANT
	EXISTING WATER SPIGOT
G	EXISTING GAS METER
G	EXISTING GAS VALVE
	EXISTING MONITORING WELL
E	EXISTING ELECTRIC MANHOLE
	EXISTING POWER POLE
	EXISTING GUY ANCHOR
	EXISTING LIGHT POLE
	EXISTING GROUND/LANDSCAPE LIGHT
E	EXISTING ELECTRICAL BOX
	EXISTING A/C PAD
T	EXISTING TELEPHONE MANHOLE
	EXISTING TRAFFIC POLE
T	EXISTING TELEPHONE PEDESTAL
TV	EXISTING CABLE TELEVISION PEDESTAL
T	EXISTING AT&T MANHOLE
	EXISTING BOLLARD
MB	EXISTING MAILBOX
	EXISTING SIGN
	IRON PIPE / PIN FOUND
	CAPPED REBAR FOUND
	CONCRETE MONUMENT SET
	CONCRETE MONUMENT FOUND
	AXLE FOUND
	PINE KNOT FOUND
	CAPPED REBAR SET
SEC	SECTION
T	TOWNSHIP
R	RANGE
R.O.W.	RIGHT-OF-WAY
M.B.L.	MINIMUM BUILDING LINE
PB.	PLAT BOOK
DB.	DEED BOOK
PG.	PAGE
( )	RECORD DIMENSION
	EXISTING TREE
	EXISTING TREE STUMP
	EXISTING CONCRETE PAVEMENT
	EXISTING ASPHALT PAVEMENT
	EXISTING BRICK PAVERS
	EXISTING BUILDING
	EXISTING GRAVEL DRIVE
	EXISTING RIPRAP LINING

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
PROJECT NOTES AND LEGEND

SHEET
C1.1

TTL
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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C1 01 Notes.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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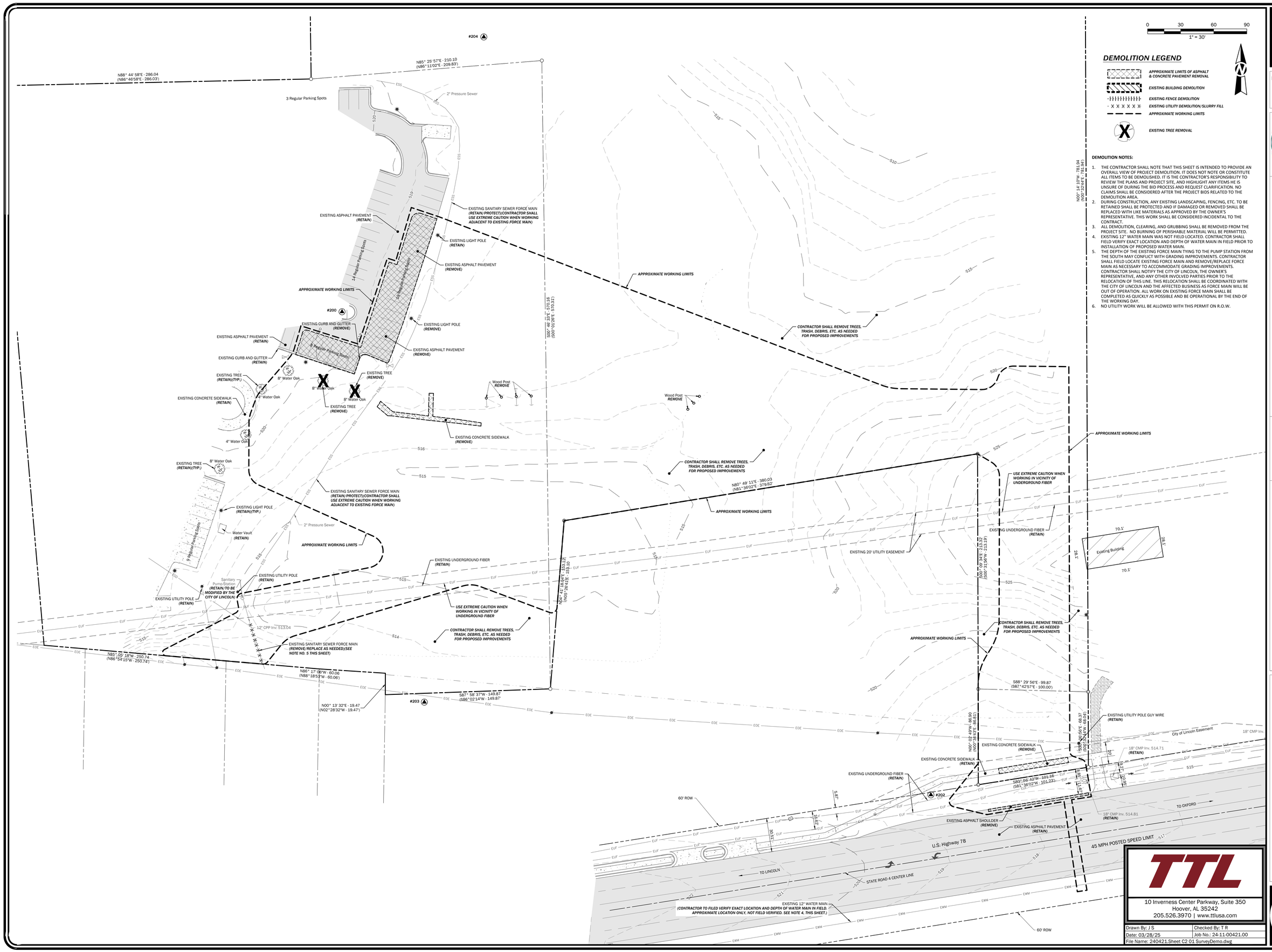

DEMOLITION LEGEND

- APPROXIMATE LIMITS OF ASPHALT & CONCRETE PAVEMENT REMOVAL
- EXISTING BUILDING DEMOLITION
- EXISTING FENCE DEMOLITION
- EXISTING UTILITY DEMOLITION/SLURRY FILL
- APPROXIMATE WORKING LIMITS
- EXISTING TREE REMOVAL

DEMOLITION NOTES:

1. THE CONTRACTOR SHALL NOTE THAT THIS SHEET IS INTENDED TO PROVIDE AN OVERALL VIEW OF PROJECT DEMOLITION. IT DOES NOT NOTE OR CONSTITUTE ALL ITEMS TO BE DEMOLISHED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO REVIEW THE PLANS AND PROJECT SITE, AND HIGHLIGHT ANY ITEMS HE IS UNSURE OF DURING THE BID PROCESS AND REQUEST CLARIFICATION. NO CLAIMS SHALL BE CONSIDERED AFTER THE PROJECT BIDS RELATED TO THE DEMOLITION AREA.
2. DURING CONSTRUCTION, ANY EXISTING LANDSCAPING, FENCING, ETC. TO BE RETAINED SHALL BE PROTECTED AND IF DAMAGED OR REMOVED SHALL BE REPLACED WITH LIKE MATERIALS AS APPROVED BY THE OWNER'S REPRESENTATIVE. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
3. ALL DEMOLITION, CLEARING, AND GRUBBING SHALL BE REMOVED FROM THE PROJECT SITE. NO BURNING OF PERISHABLE MATERIAL WILL BE PERMITTED.
4. EXISTING 12" WATER MAIN WAS NOT FIELD LOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND DEPTH OF WATER MAIN IN FIELD PRIOR TO INSTALLATION OF PROPOSED WATER MAIN.
5. THE DEPTH OF THE EXISTING FORCE MAIN TYING TO THE PUMP STATION FROM THE SOUTH MAY CONFLICT WITH GRADING IMPROVEMENTS. CONTRACTOR SHALL FIELD LOCATE EXISTING FORCE MAIN AND REMOVE/REPLACE FORCE MAIN AS NECESSARY TO ACCOMMODATE GRADING IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE CITY OF LINCOLN, THE OWNER'S REPRESENTATIVE, AND ANY OTHER INVOLVED PARTIES PRIOR TO THE RELOCATION OF THIS LINE. THIS RELOCATION SHALL BE COORDINATED WITH THE CITY OF LINCOLN AND THE AFFECTED BUSINESS AS FORCE MAIN WILL BE OUT OF OPERATION. ALL WORK ON EXISTING FORCE MAIN SHALL BE COMPLETED AS QUICKLY AS POSSIBLE AND BE OPERATIONAL BY THE END OF THE WORKING DAY.
6. NO UTILITY WORK WILL BE ALLOWED WITH THIS PERMIT ON R.O.W.

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
SITE DEMOLITION PLAN

SHEET
C2.1

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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C2 01 SurveyDemo.dwg	

ALABAMA SCHEDULE
No. 26754
PROFESSIONAL ENGINEER
TIMOTHY A. ROBERTS
03-28-2025

3/21/2024 11:29:03 AM

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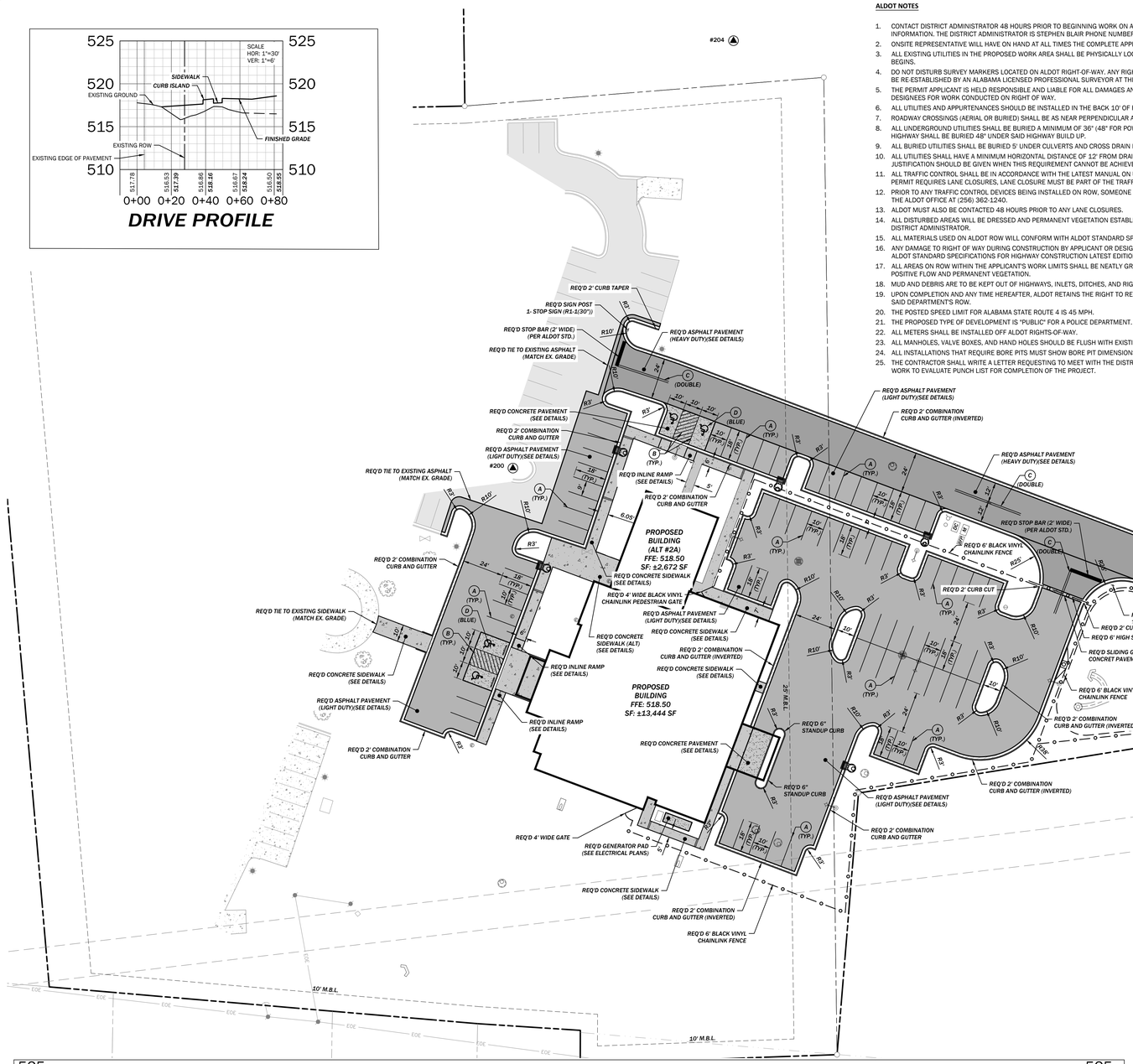
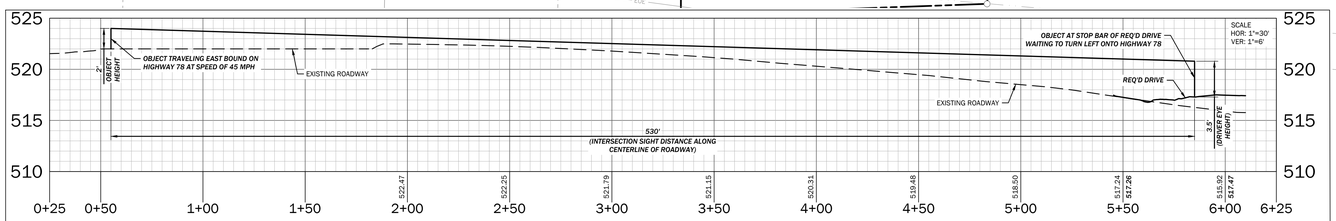
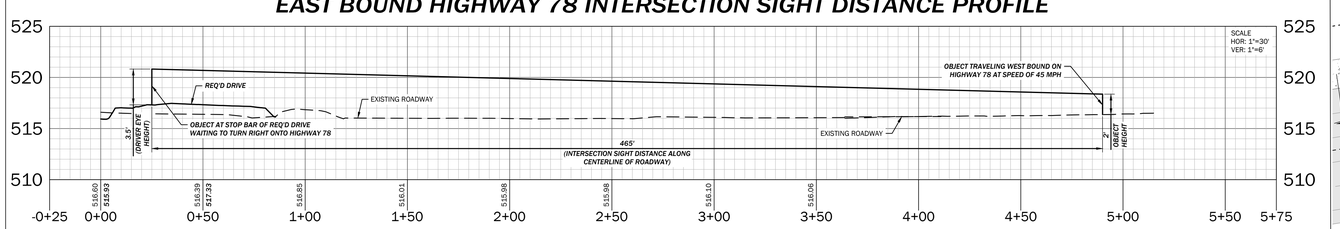
DRIVE PROFILE





EAST BOUND HIGHWAY 78 INTERSECTION SIGHT DISTANCE PROFILE



WEST BOUND HIGHWAY 78 INTERSECTION SIGHT DISTANCE PROFILE

ALDOT NOTES

1. CONTACT DISTRICT ADMINISTRATOR 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY AND PROVIDE ON-SITE CONTACT INFORMATION. THE DISTRICT ADMINISTRATOR IS STEPHEN BLAIR PHONE NUMBER (256) 362-1240.
2. ONSITE REPRESENTATIVE WILL HAVE ON HAND AT ALL TIMES THE COMPLETE APPROVED PERMIT AND PLANS.
3. ALL EXISTING UTILITIES IN THE PROPOSED WORK AREA SHALL BE PHYSICALLY LOCATED BOTH HORIZONTALLY AND VERTICALLY BEFORE WORK BEGINS.
4. DO NOT DISTURB SURVEY MARKERS LOCATED ON ALDOT RIGHT-OF-WAY. ANY RIGHT OF WAY MARKERS DISTURBED DURING CONSTRUCTION SHALL BE RE-ESTABLISHED BY AN ALABAMA LICENSED PROFESSIONAL SURVEYOR AT THE APPLICANT'S EXPENSE.
5. THE PERMIT APPLICANT IS HELD RESPONSIBLE AND LIABLE FOR ALL DAMAGES AND ACTIONS OF THEIR APPOINTED CONTRACTORS, APPOINTEES, OR DESIGNEES FOR WORK CONDUCTED ON RIGHT OF WAY.
6. ALL UTILITIES AND APPURTENANCES SHOULD BE INSTALLED IN THE BACK 10' OF RIGHT OF WAY.
7. ROADWAY CROSSINGS (AERIAL OR BURIED) SHALL BE AS NEAR PERPENDICULAR AS POSSIBLE TO THE HIGHWAY.
8. ALL UNDERGROUND UTILITIES SHALL BE BURIED A MINIMUM OF 36" (48" FOR POWER) ON RIGHT OF WAY. ANY UTILITY THAT CROSSES UNDER HIGHWAY SHALL BE BURIED 48" UNDER SAID HIGHWAY BUILD UP.
9. ALL BURIED UTILITIES SHALL BE BURIED 5' UNDER CULVERTS AND CROSS DRAIN DITCHES.
10. ALL UTILITIES SHALL HAVE A MINIMUM HORIZONTAL DISTANCE OF 12' FROM DRAINAGE STRUCTURES AND 25' FROM ALL BRIDGE STRUCTURES. JUSTIFICATION SHOULD BE GIVEN WHEN THIS REQUIREMENT CANNOT BE ACHIEVED.
11. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE LATEST MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) EDITION, (IF PERMIT REQUIRES LANE CLOSURES, LANE CLOSURE MUST BE PART OF THE TRAFFIC CONTROL PLAN)
12. PRIOR TO ANY TRAFFIC CONTROL DEVICES BEING INSTALLED ON ROW, SOMEONE WITH THE RESPONSIBILITY OF TRAFFIC CONTROL SHALL CONTACT THE ALDOT OFFICE AT (256) 362-1240.
13. ALDOT MUST ALSO BE CONTACTED 48 HOURS PRIOR TO ANY LANE CLOSURES.
14. ALL DISTURBED AREAS WILL BE DRESSED AND PERMANENT VEGETATION ESTABLISHED AS DIRECTED BY THE DEPARTMENT OF TRANSPORTATION'S DISTRICT ADMINISTRATOR.
15. ALL MATERIALS USED ON ALDOT ROW WILL CONFORM WITH ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION LATEST EDITION.
16. ANY DAMAGE TO RIGHT OF WAY DURING CONSTRUCTION BY APPLICANT OR DESIGNEE WILL BE REPAIRED BY THE APPLICANT IN ACCORDANCE WITH ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION LATEST EDITION.
17. ALL AREAS ON ROW WITHIN THE APPLICANT'S WORK LIMITS SHALL BE NEATLY GRADED, DRESSED, AND GRASSED IN A MANNER TO ESTABLISH POSITIVE FLOW AND PERMANENT VEGETATION.
18. MUD AND DEBRIS ARE TO BE KEPT OUT OF HIGHWAYS, INLETS, DITCHES, AND RIGHT OF WAY.
19. UPON COMPLETION AND ANY TIME HEREAFTER, ALDOT RETAINS THE RIGHT TO REQUEST A SET OF AS-BUILT PLANS OF ANY PERMITTED WORK IN SAID DEPARTMENTS ROW.
20. THE POSTED SPEED LIMIT FOR ALABAMA STATE ROUTE 4 IS 45 MPH.
21. THE PROPOSED TYPE OF DEVELOPMENT IS "PUBLIC" FOR A POLICE DEPARTMENT.
22. ALL METERS SHALL BE INSTALLED OFF ALDOT RIGHTS-OF-WAY.
23. ALL MANHOLES, VALVE BOXES, AND HAND HOLES SHOULD BE FLUSH WITH EXISTING GROUND AND HS-20 LOAD-RATED.
24. ALL INSTALLATIONS THAT REQUIRE BORE PITS MUST SHOW BORE PIT DIMENSIONS AND LOCATIONS.
25. THE CONTRACTOR SHALL WRITE A LETTER REQUESTING TO MEET WITH THE DISTRICT PERMIT COORDINATOR UPON COMPLETION OF THE PERMITTED WORK TO EVALUATE PUNCH LIST FOR COMPLETION OF THE PROJECT.
26. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION.
27. THE CONTRACTOR SHALL HAVE ON HAND AT ALL TIMES:
    - 27.1. APPROVED PERMIT AND PLANS STAMPED BY THE DIVISION ENGINEER.
    - 27.2. TRAFFIC CONTROL PLAN
    - 27.3. EROSION CONTROL PLAN
28. ALL DISTURBED AREAS SHALL BE RESODDED OR SEEDED IN ACCORDANCE WITH THE LATEST ALDOT SPECIFICATIONS FOR GRASSING OR AS DIRECTED BY THE ALDOT DISTRICT ADMINISTRATOR.
29. BEST MANAGEMENT PRACTICES WILL BE UTILIZED ON THIS PROJECT AND SHALL AT A MINIMUM RETURN ALL EXPOSED AREAS TO ORIGINAL OR BETTER CONDITION WITH PERMANENT STABILIZATION.
30. THE AMOUNT OF AREA TO BE DISTURBED DURING CONSTRUCTION OF THIS PERMIT IS 3.7 ACRES.
31. CONTRACTOR SHALL ENSURE THAT ALL PERMITTED WORK WILL MEET OR EXCEED ALDOT SPECIFICATIONS.
32. ALL CONTRACTORS MUST MEET OR EXCEED OSHA STANDARDS.
33. ROW MARKERS OR MONUMENTS SHALL NOT BE DISTURBED.
34. DAMAGE TO ANY EXISTING SIDEWALKS OR RAMPS AND NEW SIDEWALK OR RAMPS MUST MEET ADA STANDARDS.
35. WORK SHALL ONLY TAKE PLACE BETWEEN 8:30 AM AND 3:30 PM MONDAY THROUGH FRIDAY UNLESS OTHERWISE NOTED.
36. DURING NON-WORKING HOURS, NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE IN AN AREA DESIGNATED BY THE ENGINEER AND APPROVED BY THE DISTRICT MANAGER AND DELINEATED BY REFLECTORIZED DRUMS.
37. ALDOT FIBER OPTIC UTILITIES SHALL BE FIELD VERIFIED AND SHOWN ON THE PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD LOCATE ALL UTILITIES PRIOR TO COMMENCING WORK. CONTACT EAST CENTRAL TRAFFIC MGMT. CENTER TO VERIFY AT 205-251-1397.
38. THE CONTRACTOR MUST NOTIFY ALDOT DAILY 30 MINUTES BEFORE WORK IS SCHEDULED FOR ANY LANE CLOSURES AND ROLLING ROAD BLOCKS. THE CONTRACTOR MUST NOTIFY ALDOT UPON COMPLETION OF SCHEDULED CLOSURES, MON-FRI AT 256-362-1240 FROM 8AM-5PM AND WEEKEND/AFTER HOURS AT 256-496-4269.
39. CONSTRUCTION ACTIVITIES AT THE INDICATED WORK AREA SHALL ONLY BE PERMITTED ON SUNDAY MORNING FROM 6AM-10AM. THE CONTRACTOR SHALL INFORM THE ALABAMA DEPARTMENT OF TRANSPORTATION ENGINEERING DEPARTMENT OF EXPECTED CONSTRUCTION DATES PRIOR TO BEGINNING OF CONSTRUCTION.
40. A SCHEDULE OF OPERATIONS SHALL BE PROVIDED FOR ALL AERIAL CROSSINGS AND/OR ANTICIPATED TRAFFIC INTERRUPTIONS.
41. ALL EXISTING UTILITIES, APPURTENANCES, DRAINAGE STRUCTURES, AND ACCESSORIES WITH DIMENSIONS FROM EDGE OF PAVEMENT AND RIGHT-OF-WAY ARE SHOWN ON THE PLANS.
42. NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT OR UNATTENDED ON ROW UNLESS PROPERLY PROTECTED. TRENCHES OR EXCAVATION MUST BE FILLED, FENCED, COVERED, OR BARRICADED WHEN UNATTENDED.
43. ALL PURPOSED UTILITIES SHALL MAINTAIN 24" VERTICAL AND HORIZONTAL CLEARANCE FROM ALL EXISTING UTILITIES.
44. THE MAX FLOW RATE FOR THE DIRECTIONAL DRILLING IS 15 GPM AND THE MAX PRESSURE IS 350 PSI.
45. ALL SIGNS WILL BE MAINTAINED BY THE APPLICANT AND NOT ALDOT.
46. WORK WILL TAKE PLACE APPROXIMATELY BETWEEN MILE POST 143.29 AND 143.31, WITH DRIVE LOCATED AT 143.3.
47. APPLICANT WILL MAINTAIN ANY APPROVED LANDSCAPING ON R.O.W.
48. ALL MARKINGS, STRIPING, AND LEGENDS WITHIN ALDOT R.O.W. SHALL BE THERMOPLASTIC.
49. WATER LINES SHALL CONFORM TO THE CURRENTLY APPLICABLE SECTIONS OF THE AMERICAN WATER WORKS ASSOCIATION.
50. THE APPLICANT SHALL BE RESPONSIBLE FOR ANY SOLID WASTE (I.E., WOOD, STUMPS, ETC.) TO BE DISPOSED OF AND MUST BE IN ACCORDANCE WITH APPLICABLE REGULATIONS OF THE ALABAMA DEPARTMENT OF ENVIRONMENTAL MANAGEMENT (ADEM).
51. EROSION CONTROL DEVICES WILL BE INSTALLED AND MAINTAINED DURING THE WORK TO BE PERFORMED AND SHOULD MEET REQUIREMENTS OF ALDOT AND ADEM STANDARDS AND SPECIFICATIONS.
52. APPLICANTS THAT NEED A QUALIFIED CREDENTIAL INSPECTOR FOR THEIR PROJECT SHALL PROVIDE THIS PERSON'S NAME, QCI NUMBER, AND CONTACT INFORMATION TO THE ALDOT DISTRICT OFFICE. A PRELIMINARY REVIEW SHALL BE DONE ON SITE PRIOR TO WORK ON ROW WITH ALDOT AND REVIEWS SHALL BE DONE IN ACCORDANCE TO ADEM REGULATIONS. A STORM WATER REVIEW SHALL BE DONE WEEKLY AND AFTER 3/4" RAIN EVENT.
53. PERMITS ISSUES BY ALDOT ARE FOR WORK ON ALDOT RIGHT OF WAY ONLY.
54. ALDOT WILL NOT MAINTAIN STRIPING OR SIGNS.

0 30 60 90
1" = 30'

PAVING LEGEND

- REQ'D ASPHALT PAVEMENT (HEAVY DUTY) (SEE DETAILS)
- REQ'D ASPHALT PAVEMENT (LIGHT DUTY) (SEE DETAILS)
- REQ'D CONCRETE PAVEMENT (SEE DETAILS)
- REQ'D CONCRETE SIDEWALK (SEE DETAILS)
- REQ'D INVERTED CURB AND GUTTER (SEE DETAILS)

STRIPING, MARKINGS, AND SIGN LEGEND

- (A) REQ'D: SOLID WHITE, PAINT TRAFFIC STRIPE (4" WIDE)
- (B) REQ'D: SOLID BLUE, PAINT TRAFFIC STRIPE (4" WIDE)
- (C) REQ'D: SOLID YELLOW, PAINT TRAFFIC STRIPE (4" WIDE)
- (D) REQ'D: TRAFFIC CONTROL MARKINGS, PAINT (ALL COLORS)
- (E) REQ'D: TRAFFIC CONTROL LEGENDS, PAINT (ALL COLORS)
- (F) REQ'D: SOLID YELLOW, CL 2, TYPE A THERMOPLASTIC TRAFFIC STRIPE (4" WIDE)

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205-942-0696
Attn: Tony Dodd

ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
PAVING, SIGNING, STRIPING PLAN

SHEET
C3.1

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File Name: 240421.Sheet C3 01 Paving.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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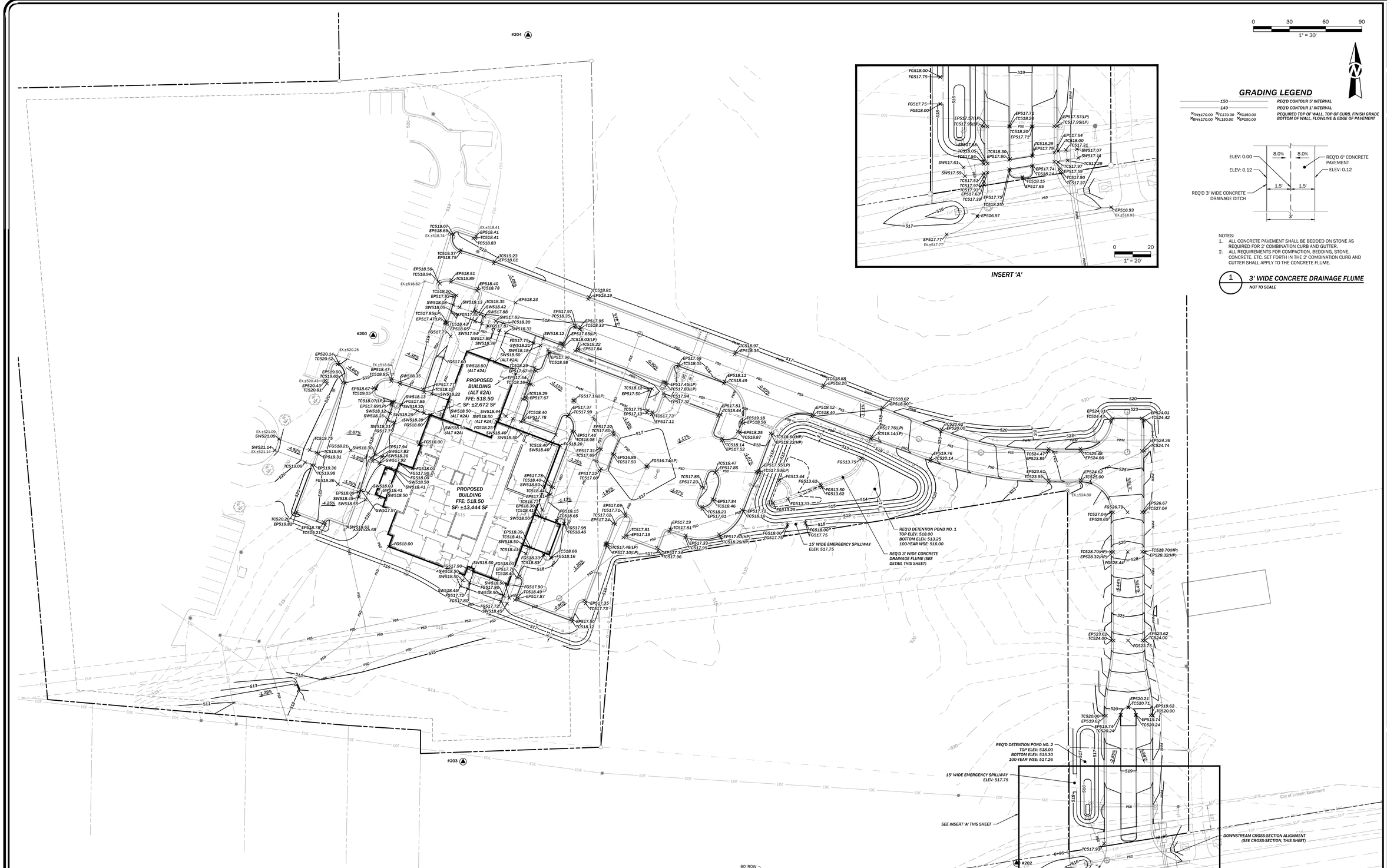


INSERT 'A'

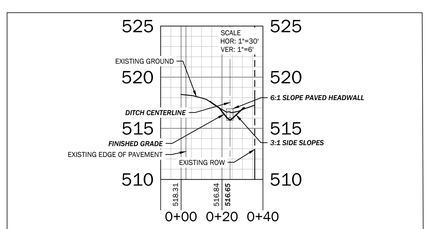
0 30 60 90
1" = 30'

GRADING LEGEND

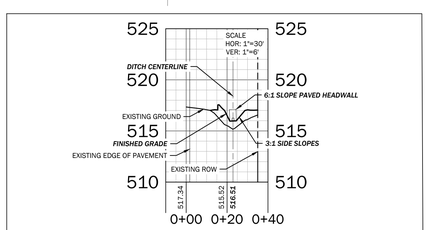
150	REQ'D CONTOUR 5' INTERVAL
149	REQ'D CONTOUR 1' INTERVAL
×FW₁170.00 ×FW₂170.00	×FC170.00 ×FL150.00 ×FG150.00 ×FL150.00 ×EP150.00 — REQUIRED TOP OF WALL, TOP OF CURB, FINISH GRADE BOTTOM OF WALL, FLOWLINE & EDGE OF PAVEMENT

NOTES:
1. ALL CONCRETE PAVEMENT SHALL BE BEDDED ON STONE AS REQUIRED FOR 2' COMBINATION CURB AND GUTTER.
2. ALL REQUIREMENTS FOR COMPACTION, BEDDING, STONE, CONCRETE, ETC. SET FORTH IN THE 2' COMBINATION CURB AND CUTTER SHALL APPLY TO THE CONCRETE FLUME.

1 **3' WIDE CONCRETE DRAINAGE FLUME**
NOT TO SCALE



UPSTREAM DITCH PROFILE



DOWNSTREAM DITCH PROFILE

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JOB NO.
24001

DESCRIPTION:
SITE GRADING PLAN

SHEET
C4.1

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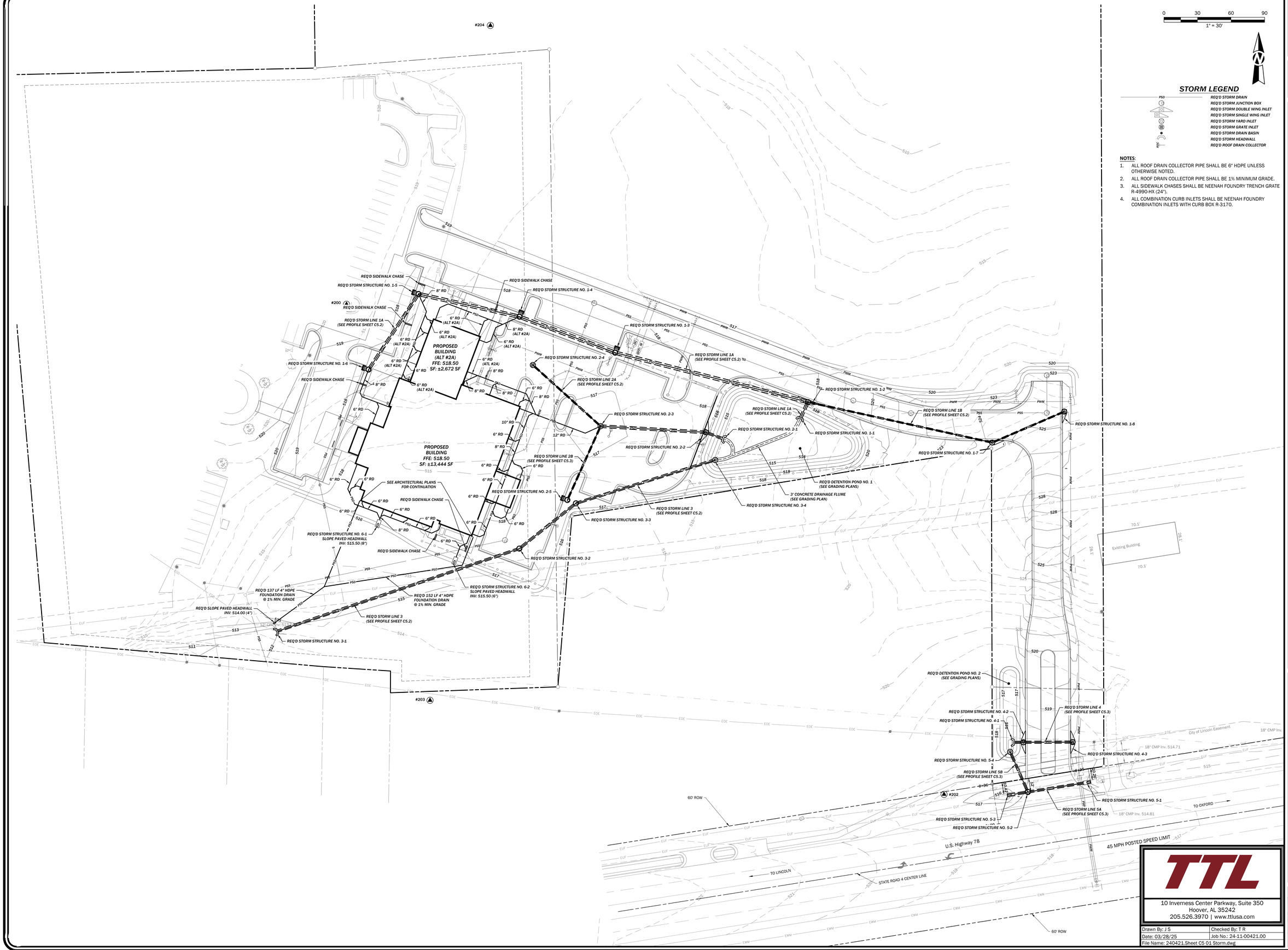

STORM LEGEND

- PSO — REQ'D STORM DRAIN
- REQ'D STORM JUNCTION BOX
- REQ'D STORM DOUBLE WING INLET
- REQ'D STORM SINGLE WING INLET
- REQ'D STORM YARD INLET
- REQ'D STORM GRATE INLET
- REQ'D STORM DRAIN BASIN
- REQ'D STORM HEADWALL
- REQ'D ROOF DRAIN COLLECTOR

NOTES:

1. ALL ROOF DRAIN COLLECTOR PIPE SHALL BE 6" HDPE UNLESS OTHERWISE NOTED.
2. ALL ROOF DRAIN COLLECTOR PIPE SHALL BE 1% MINIMUM GRADE.
3. ALL SIDEWALK CHASES SHALL BE NEENAH FOUNDRY TRENCH GRATE R-4990-HX (24").
4. ALL COMBINATION CURB INLETS SHALL BE NEENAH FOUNDRY COMBINATION INLETS WITH CURB BOX R-3170.

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JOB NO.
24001

DESCRIPTION:
STORM DRAINAGE PLAN

SHEET
C5.1

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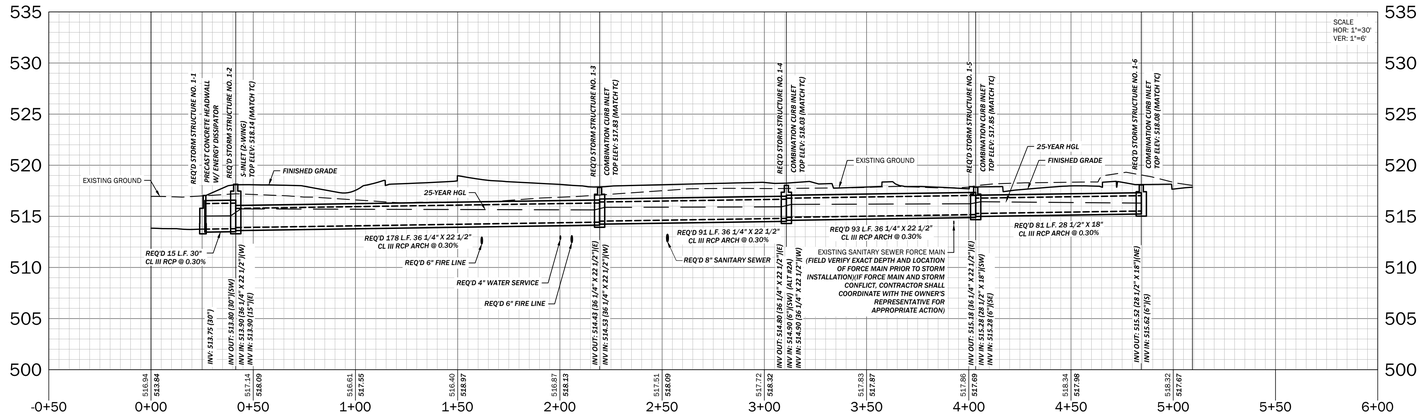
STORM PROFILE LEGEND

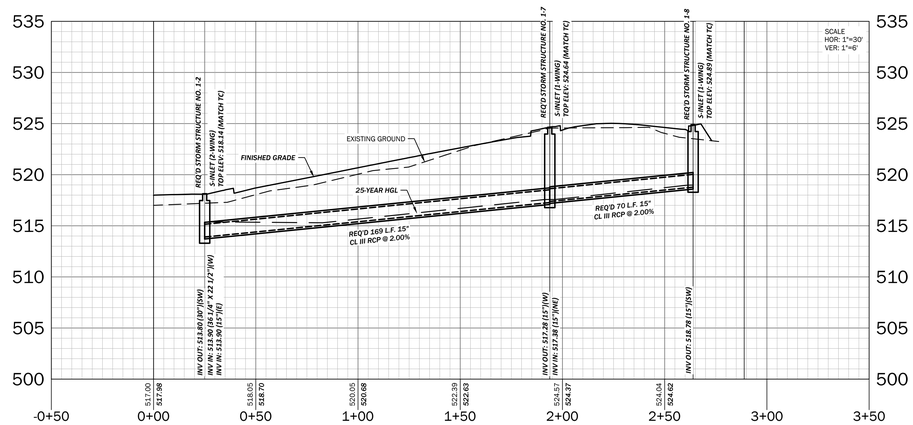
- EXISTING GROUND
- FINISHED GRADE
- 25-YEAR HGL
- REQ'D STORM DRAIN

NOTES:

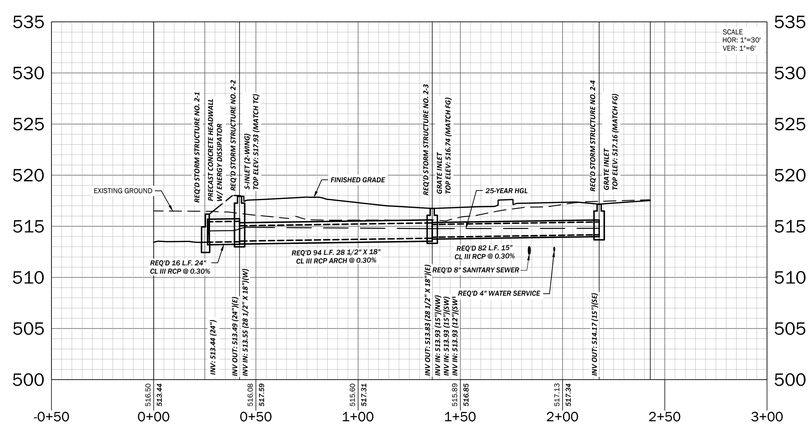
1. ALL COMBINATION CURB INLETS SHALL BE NEENAH FOUNDRY COMBINATION INLETS WITH CURB BOX R-3170.



PSD LINE 1A PROFILE



PSD LINE 1B PROFILE



PSD LINE 2A PROFILE

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JOB NO.
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DESCRIPTION:
STORM DRAINAGE PROFILES

SHEET
C5.2

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Date: 03/28/25	Job No.: 24-11-00421.00
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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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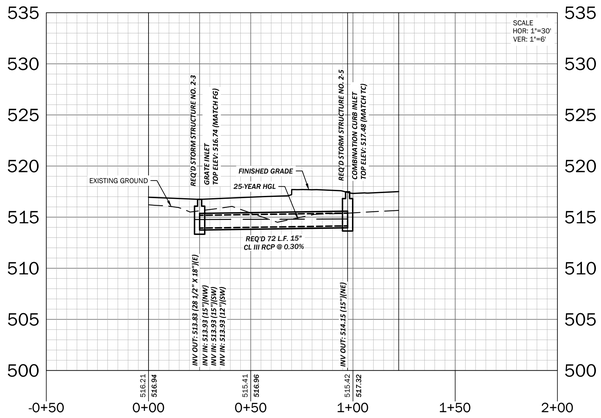

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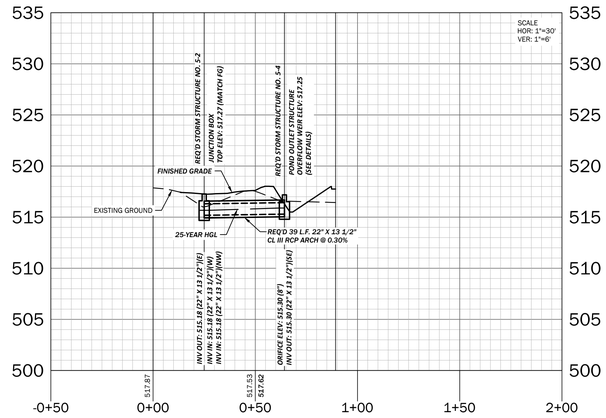
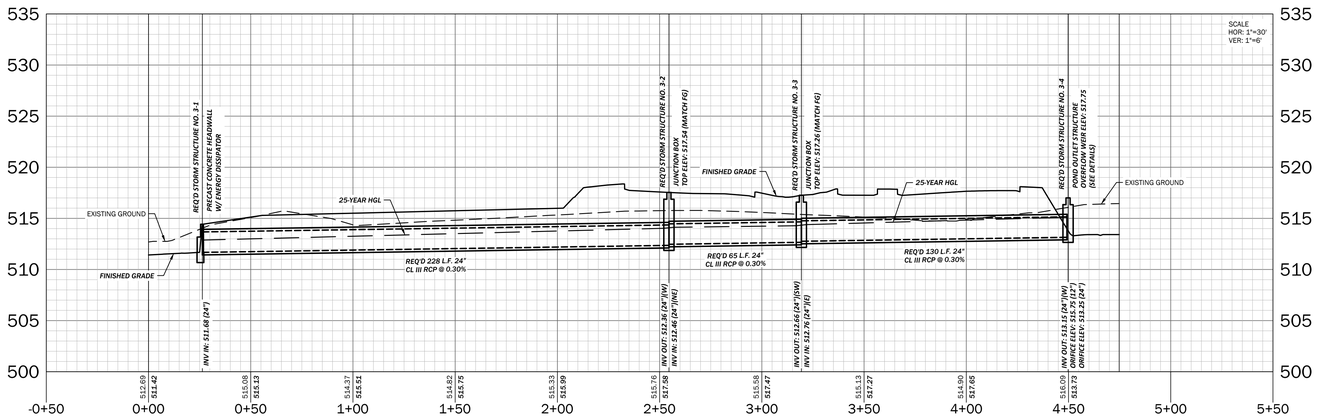


PSD LINE 5B PROFILE



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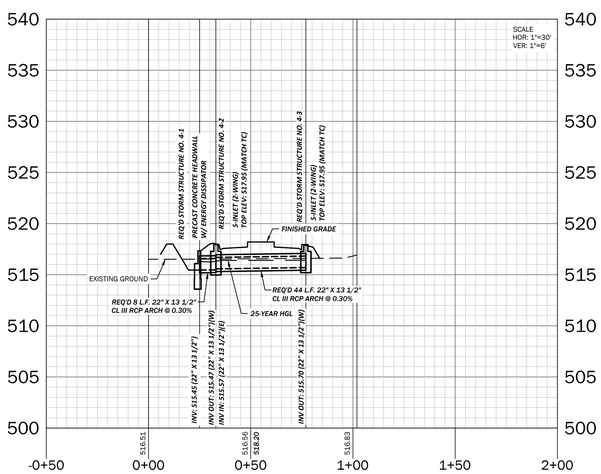

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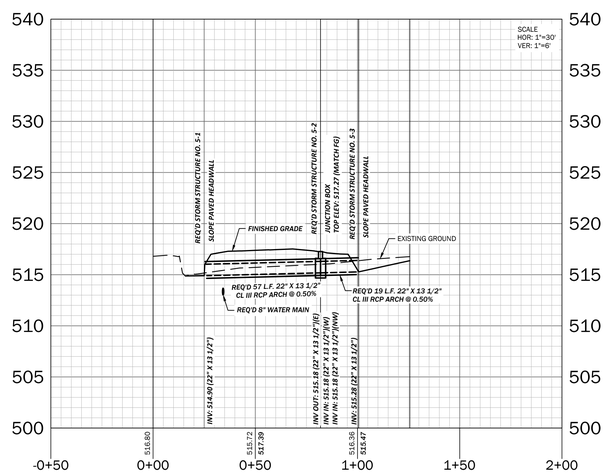

PSD LINE 5A PROFILE

STORM PROFILE LEGEND

- EXISTING GROUND
- FINISHED GRADE
- 25-YEAR HGL
- REQ'D STORM DRAIN

NOTES:

1. ALL COMBINATION CURB INLETS SHALL BE NEENAH FOUNDRY COMBINATION INLETS WITH CURB BOX R-3170.

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Attn: Tony Dodd

ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
STORM DRAINAGE PROFILES

SHEET
C5.3

TTL
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Date: 03/28/25	Job No.: 24-11-00421.00
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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER BRITNEY A. ROBERTS 03-28-2025

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0 30 60 90
1" = 30'

SANITARY LEGEND

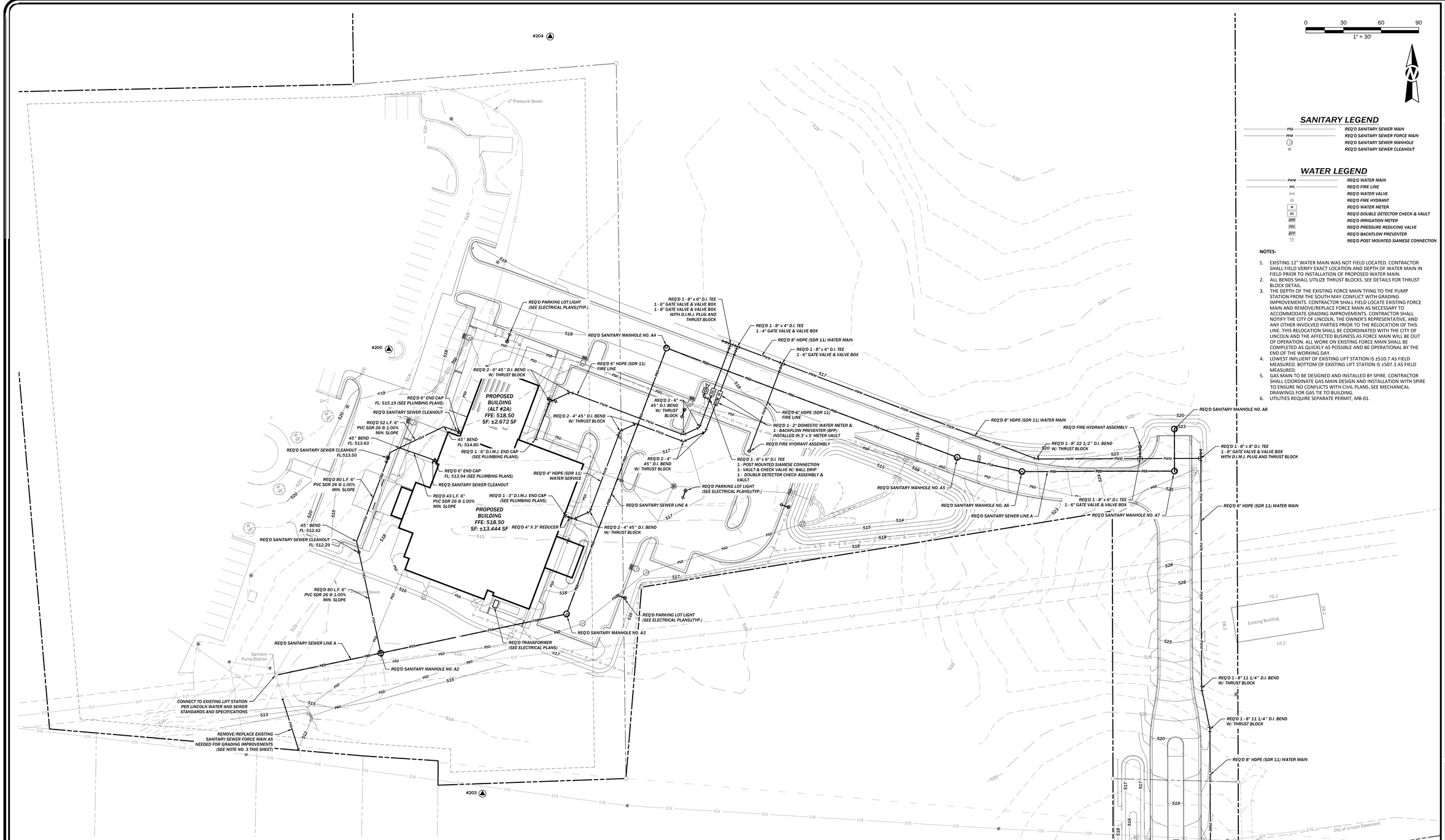
PSS	REQ'D SANITARY SEWER MAIN
PFM	REQ'D SANITARY SEWER FORCE MAIN
	REQ'D SANITARY SEWER MANHOLE
	REQ'D SANITARY SEWER CLEANOUT

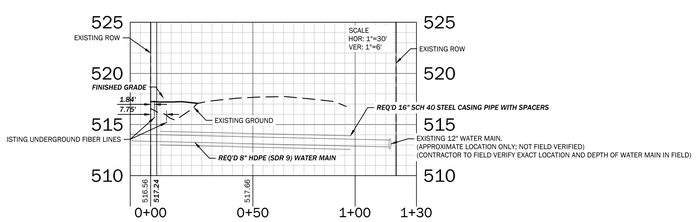
WATER LEGEND

PWM	REQ'D WATER MAIN
FFL	REQ'D FIRE LINE
	REQ'D WATER VALVE
	REQ'D FIRE HYDRANT
M	REQ'D WATER METER
DC	REQ'D DOUBLE DETECTOR CHECK & VAULT
IMM	REQ'D IRRIGATION METER
PRV	REQ'D PRESSURE REDUCING VALVE
BFP	REQ'D BACKFLOW PREVENTER
	REQ'D POST MOUNTED SIAMESE CONNECTION

NOTES:

1. EXISTING 12" WATER MAIN WAS NOT FIELD LOCATED. CONTRACTOR SHALL FIELD VERIFY EXACT LOCATION AND DEPTH OF WATER MAIN IN FIELD PRIOR TO INSTALLATION OF PROPOSED WATER MAIN.
2. ALL BENDS SHALL UTILIZE THRUST BLOCKS. SEE DETAILS FOR THRUST BLOCK DETAIL.
3. THE DEPTH OF THE EXISTING FORCE MAIN TYING TO THE PUMP STATION FROM THE SOUTH MAY CONFLICT WITH GRADING IMPROVEMENTS. CONTRACTOR SHALL FIELD LOCATE EXISTING FORCE MAIN AND REMOVE/REPLACE FORCE MAIN AS NECESSARY TO ACCOMMODATE GRADING IMPROVEMENTS. CONTRACTOR SHALL NOTIFY THE CITY OF LINCOLN, THE OWNER'S REPRESENTATIVE, AND ANY OTHER INVOLVED PARTIES PRIOR TO THE RELOCATION OF THIS LINE. THIS RELOCATION SHALL BE COORDINATED WITH THE CITY OF LINCOLN AND THE AFFECTED BUSINESS AS FORCE MAIN WILL BE OUT OF OPERATION. ALL WORK ON EXISTING FORCE MAIN SHALL BE COMPLETED AS QUICKLY AS POSSIBLE AND BE OPERATIONAL BY THE END OF THE WORKING DAY.
4. LOWEST INFLUENT OF EXISTING LIFT STATION IS ±510.7 AS FIELD MEASURED. BOTTOM OF EXISTING LIFT STATION IS ±507.3 AS FIELD MEASURED.
5. GAS MAIN TO BE DESIGNED AND INSTALLED BY SPIRE. CONTRACTOR SHALL COORDINATE GAS MAIN DESIGN AND INSTALLATION WITH SPIRE TO ENSURE NO CONFLICTS WITH CIVIL PLANS. SEE MECHANICAL DRAWINGS FOR GAS TIE TO BUILDING.
6. UTILITIES REQUIRE SEPARATE PERMIT, MB-01.





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File Name: 240421.Sheet C6 01 Utility.dwg	

ALABAMA SCHEDULE OF PROFESSIONAL ENGINEERS
No. 26754
TIMOTHY A. ROBERTS
03-28-2025

BILL WHITTAKER, P.C.
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JOB NO.
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DESCRIPTION:
UTILITY PLAN

SHEET
C6.1

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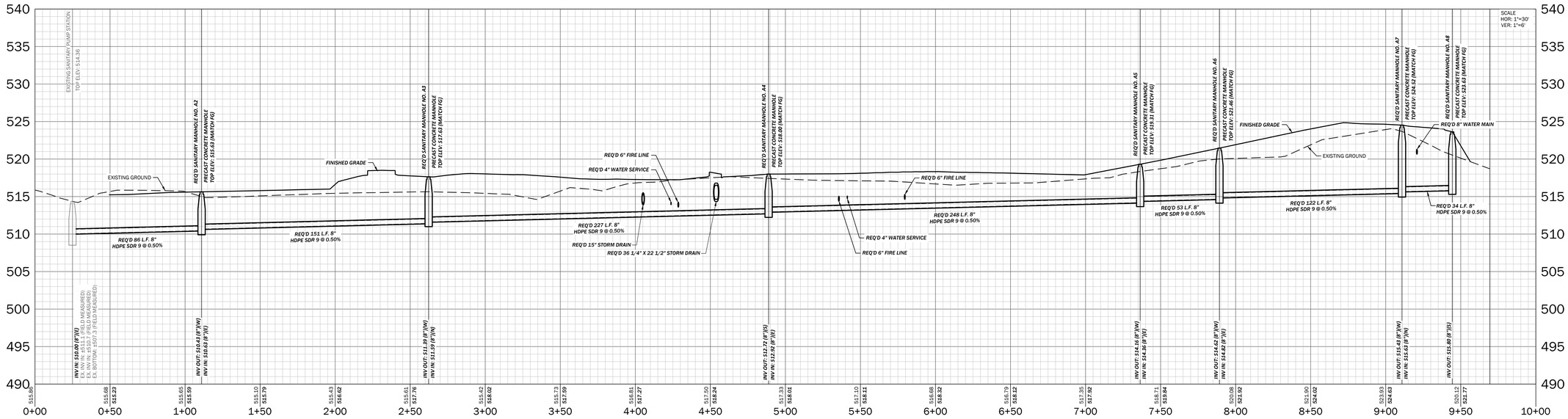
SANITARY PROFILE LEGEND

- EXISTING GROUND
- FINISHED GRADE
- REQ'D SANITARY SEWER



PSS LINE A PROFILE

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03.31.25
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DESCRIPTION:
SANITARY SEWER AND WATER MAIN PROFILES

SHEET
C6.2

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Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C6 01 Utility.dwg	

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

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EROSION AND SEDIMENTATION CONTROL LEGEND

SITE PREPARATION

- CEP — CONSTRUCTION EXIT PAD
- SU — SURFACE ROUGHENING
- TSG — TOPSOILING

SURFACE STABILIZATION

- DC — DUST CONTROL
- ECB — EROSION CONTROL BLANKET
- MU — MULCHING
- PS — PERMANENT SEEDING
- SOD — SODDING
- TS — TEMPORARY SEEDING

STORM WATER MANAGEMENT

- SDB — STORMWATER DETENTION BASIN

RUNOFF CONVEYANCE

- CD — CHECK DAM
- DV — DIVERSION
- DS — DROP STRUCTURE
- OP — OUTLET PROTECTION
- RS — RIPRAP-LINED SWALE

SEDIMENT CONTROL

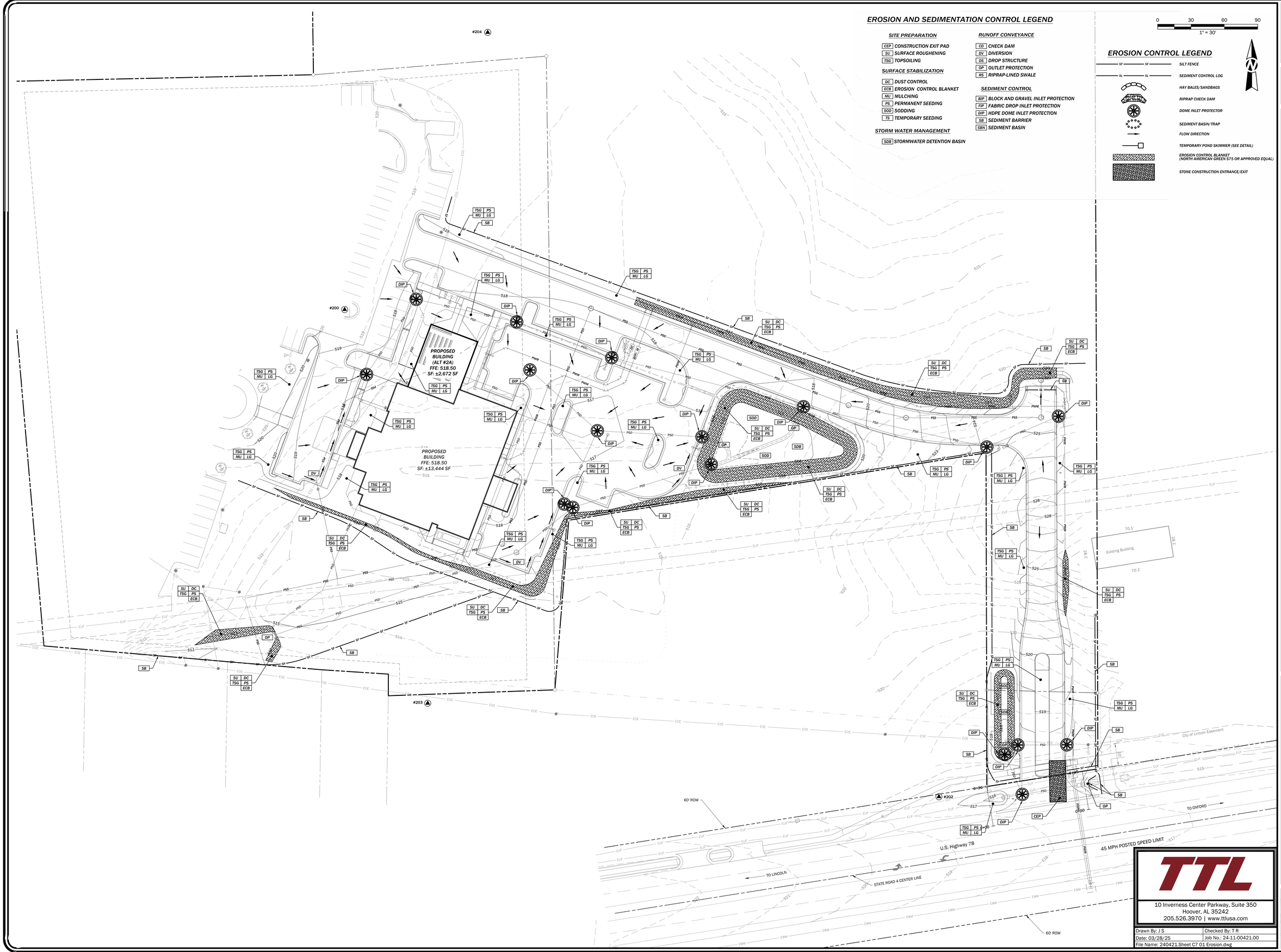
- BIP — BLOCK AND GRAVEL INLET PROTECTION
- FIP — FABRIC DROP INLET PROTECTION
- DIP — HDPE DOME INLET PROTECTION
- SB — SEDIMENT BARRIER
- SBN — SEDIMENT BASIN

0 30 60 90

1" = 30'

EROSION CONTROL LEGEND

- SILT FENCE
- SEDIMENT CONTROL LOG
- HAY BALES/SANDBAGS
- RIPRAP CHECK DAM
- DOME INLET PROTECTOR
- SEDIMENT BASIN/TRAP
- FLOW DIRECTION
- TEMPORARY POND SKIMMER (SEE DETAIL)
- EROSION CONTROL BLANKET (NORTH AMERICAN GREEN S75 OR APPROVED EQUAL)
- STONE CONSTRUCTION ENTRANCE/EXIT



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NEW CITY OF LINCOLN POLICE DEPARTMENT LINCOLN, ALABAMA

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150 Magnolia St.
Lincoln, AL 35096
205-763-7777
Attn: Lew Watson

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MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER
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25 Summerall Gate Road
Anniston, AL 36205
256-820-9897
Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
EROSION CONTROL PLAN

SHEET
C7.1

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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C7 01 Erosion.dwg	

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03.28.2025

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ISSUE:
03.31.25
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JOB NO.
24001

DESCRIPTION:
TRAFFIC CONTROL PLAN

SHEET
C8.1

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Drawn By: J S	Checked By: T R
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ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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GENERAL TRAFFIC CONTROL PLAN NOTES

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

( ) DENOTES NOTES THAT APPLY TO THIS PROJECT

700 THE TRAFFIC CONTROL PLAN IS DEVELOPED IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES PART 6, 2009 EDITION. THE TRAFFIC CONTROL DEVICES INDICATED REPRESENT CONDITIONS KNOWN DURING PLAN DEVELOPMENT. IN THE EVENT ACTUAL PHYSICAL CONDITIONS WARRANT ADDITIONAL TRAFFIC CONTROL DEVICES, THEY SHALL BE INSTALLED IN CONFORMANCE WITH THE M.U.T.C.D. PART 6 AS DIRECTED BY THE ENGINEER. COST SHALL BE PAID FOR UNDER THE APPROPRIATE PAY ITEM.

701 ALL BLACK ON ORANGE CONSTRUCTION SIGNS SHALL BE FABRICATED USING TYPE XI FLUORESCENT ORANGE REFLECTIVE SHEETING MATERIAL FOR THE SIGN BACKGROUND.

702 DURING NON-WORKING HOURS NO EQUIPMENT OR MATERIAL SHALL BE PARKED OR STORED CLOSER THAN 30 FEET TO THE EDGE OF ANY ROADWAY CARRYING TRAFFIC. WHEN THIS IS NOT PRACTICAL, IT SHALL BE PLACED IN AN AREA APPROVED BY THE ENGINEER AND DELINEATED BY REFLECTORIZED DRUMS. THIS INCLUDES STORAGE OF TRAFFIC CONTROL DEVICES SUCH AS TRAILER MOUNTED OR OTHER TEMPORARY SIGNS, BARRICADES, DRUMS, ETC., WHICH ARE NOT IN USE DURING NON-WORKING HOURS. TO BE FURNISHED BY THE CONTRACTOR WITHOUT COST TO THE ALDOT. (SEE SKETCH ON SHEET)

703 WHERE THE LOCATION OF A REQUIRED SIGN FALLS IN A DRIVEWAY, SIDEWALK, BRIDGE, ETC., OR WHERE THE VISIBILITY OF A SIGN IS LIMITED TO THE TRAVELING PUBLIC, THE LOCATION SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER.

704 THE CONTRACTOR IS TO REMOVE, RELOCATE OR COVER DURING CONSTRUCTION AND THEN RESET OR UNCOVER UPON COMPLETION OF A PARTICULAR SECTION ANY CONFLICTING IN-PLACE ROADWAY SIGNS AND DELINEATORS, AS DIRECTED BY THE ENGINEER. SIGNS REQUIRING REMOVAL SHALL BE STOCKPILED AS DIRECTED BY THE ENGINEER AND SHALL BECOME PROPERTY OF THE ALDOT. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

705 DURING ALL PHASES OF WORK, NON-APPLICABLE PAVEMENT STRIPING OR MARKINGS SHALL BE REMOVED AND APPROPRIATE PAVEMENT STRIPING OR MARKINGS SHALL BE PLACED AS EXPEDITIOUSLY AS PRACTICAL, BUT IN ALL CASES, SHALL BE IN PLACE BY NIGHTFALL ON ANY ROADWAY CARRYING TRAFFIC, EXCEPT ON SHORT TERM OPERATIONS WHERE IT IS DETERMINED BY THE ENGINEER, THAT SUCH REMOVAL AND REPLACEMENT IS MORE HAZARDOUS THAN LEAVING EXISTING MARKINGS IN PLACE. COST OF ANY REMOVAL SHALL BE PAID FOR UNDER ITEM 701D OR AS A SUBSIDIARY OBLIGATION OF ITEM 701C.

706 OMITTED

707 THE CONTRACTOR SHALL PLACE ALL ADVANCE WARNING SIGNS BEFORE PROCEEDING WITH HIS WORK. SIGNS SHALL BE PLACED IN ORDER, IN THE DIRECTION OF TRAFFIC AND REMOVED IN REVERSE ORDER.

708 ALL VEHICLES, EQUIPMENT, PERSONNEL (EXCEPT FLAGGERS), AND THEIR ACTIVITIES, ARE RESTRICTED AT ALL TIMES TO ONE SIDE OF THE PAVEMENT UNLESS OTHERWISE AUTHORIZED BY THE ENGINEER.

709 THE CONTRACTOR SHALL MAINTAIN AT LEAST ONE ACCESS TO BUSINESSES AND RESIDENCES DURING ALL PHASES OF CONSTRUCTION.

710 CONSTRUCTION SIGNS MOUNTED ON TEMPORARY SUPPORTS SHALL BE MOUNTED AT A MINIMUM HEIGHT OF 5 FEET.

711 FLAGGERS SHALL BE PROPERLY ATTIRED, EQUIPPED WITH STAFF MOUNTED STOP/SLOW PADDLES IN SIGHT OF EACH OTHER, OR HAVE DIRECT COMMUNICATION AT ALL TIMES. FLAGGER STATION LOCATION MAY BE VARIED FROM THOSE SHOWN BASED ON ROADWAY ALIGNMENT AND CONDITIONS AT THE TIME OF THE LANE CLOSURE.

712 FLAGGERS ARE TO BE USED WHEN DIRECTED BY THE ENGINEER. SIGNS SHALL BE PLACED AT THE APPROPRIATE TIME, AND SHALL BE COVERED OR REMOVED WHEN FLAGGERS ARE NOT ON DUTY AND DURING NON-WORKING HOURS.

713 FOR MOVING OPERATIONS, THE TRAFFIC CONES MAY BE DELETED IF THE FLAGGERS ARE IN SIGHT OF EACH OTHER, OR IF A PILOT CAR IS USED ON A TWO LANE ROADWAY.

714 OMITTED

715 ALL CONTRACTOR'S EMPLOYEES' PERSONAL VEHICLES, AND CONTRACTOR'S EQUIPMENT NOT IN OPERATION, SHALL BE PARKED A MINIMUM OF THIRTY (30) FEET FROM THE TRAVELED WAY DURING WORKING HOURS, AS NOT TO CREATE A HAZARD.

716 THE TRAFFIC CONTROL PLAN IS NOT ALL INCLUSIVE. THE TCP PROVIDES SEVERAL DETAILED DRAWINGS INDICATING THE TRAFFIC CONTROL NECESSARY FOR THE DIFFERENT CONSTRUCTION ACTIVITIES ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL SELECT THE DETAILED DRAWING THAT BEST FITS THE ACTIVITY TO BE PERFORMED.

717 OMITTED

718 REQUIRED TEMPORARY ROUTE MARKER ASSEMBLIES THAT ARE TO BE LOCATED IN THE VICINITY OF EXISTING ROUTE MARKERS SHOULD BE PLACED ALONG SIDE OF THOSE ALREADY IN PLACE. SOME EXISTING ROUTE MARKERS MAY HAVE TO BE COVERED OR REMOVED, AS DIRECTED BY THE ENGINEER. COST SHALL BE A SUBSIDIARY OBLIGATION OF ITEM 740B.

719 RA-1 (REBUILD ALABAMA) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT. RA-1 SIGNS SHALL BE PLACED AT THE BEGINNING OF THE WORK LIMITS OF THE SUBJECT PROJECT ROUTE. RA-1 SIGNS SHALL BE POSTED ON THE RIGHT-HAND SIDE OF THE ROADWAY ON THEIR OWN SUPPORT SYSTEM. THE RA-1 SIGNS SHALL BE REMOVED UPON COMPLETION OF THE PROJECT.

720 ALL TRAFFIC CONTROL DEVICES THAT ARE NOT APPLICABLE AT ANY SPECIFIC TIME SHALL BE COVERED OR REMOVED AS DIRECTED BY THE ENGINEER.

721 OMITTED

722 OMITTED

723 THE CONTRACTOR SHALL MAKE PROVISIONS FOR THE SAFETY OF PEDESTRIAN TRAFFIC CROSSING THE WORK ZONES DURING CONSTRUCTION.

724 OMITTED

725 ALL SIGNS SHALL BE POST-MOUNTED IF THE WORK PERIOD EXCEEDS FOUR DAYS, EXCEPT FOR THOSE SIGNS WHICH ARE MOUNTED ON BARRICADES. FOR REPEATED DAY OPERATIONS, SIGNS MAY BE MOUNTED ON TEMPORARY SUPPORTS AND REMOVED AT THE COMPLETION OF THE DAY'S OPERATION.

726 W8 SIGNS INTENDED TO WARN MOTORISTS OF SURFACE CONDITIONS EXTENDING FOR GREATER THAN 1 MILE SHALL BE PLACED PRIOR TO THE BEGINNING OF SURFACE CONDITION AND AT 1 MILE INCREMENTS THEREAFTER, WITH THE EXCEPTION SPECIFIED IN NOTE 727.

727 DURING THE WIDENING OR RESURFACING OF ANY ROADWAY CARRYING TRAFFIC, THE CONTRACTOR SHALL ADVISE THE MOTORISTS OF ANY EDGE OF PAVEMENT DROP-OFFS 3 INCHES OR GREATER BY PLACING SHOULDER DROP-OFF SIGNS EVERY ½ MILE BEGINNING PRIOR TO THE WIDENING OR RESURFACING. REQUIRED SHOULDER WORK TO ELIMINATE THE DROP-OFFS SHALL BE PURSUED IN AN EXPEDITIOUS MANNER FOLLOWING THE WIDENING AND/OR RESURFACING.

728 A DIFFERENCE IN ELEVATION OF APPROXIMATELY 2 INCHES OR LESS AT THE CENTERLINE MAY BE ALLOWED DURING NON-WORKING HOURS WITHOUT ADDITIONAL TRAFFIC CONTROL. SPECIAL CONDITIONS MAY EXIST WHERE PROTECTION SHOULD BE PROVIDED WHERE THE DIFFERENCE IS 2 INCHES OR LESS.

729 SIGNS ON TEMPORARY SUPPORTS ARE TO BE REMOVED OR COVERED WHEN NO WORK IS BEING PERFORMED OR AT THE COMPLETION OF THE DAY'S OPERATION.

730 OMITTED

731 OMITTED

732 CHANNELIZING DRUMS SHOULD BE PLACED ON 10 FOOT INTERVALS IN RADII.

733 CHANNELIZING DRUMS PLACED TO PROTECT COMPLETED WORK NOT OPEN TO TRAFFIC, SHOULD BE SPACED AT 50 FOOT INTERVALS.

734 CHANNELIZING DRUMS PLACED IN THE EXCAVATED AREA AHEAD OF PAVING OPERATIONS, SHOULD BE SPACED AT 50 FOOT INTERVALS.

735 CHANNELIZING DRUMS PLACED ON PAVEMENT DURING WORKING HOURS SHALL BE SHIFTED TO THE EDGE OF SHOULDER DURING NON-WORKING HOURS AND DURING PEAK PERIODS.

736 CHANNELIZING DRUMS SHOULD BE PLACED ON 25 FOOT INTERVALS THROUGHOUT ALL TAPERS.

737 CHANNELIZING DEVICES SHALL EXTEND TO A POINT WHERE THEY ARE VISIBLE TO APPROACHING TRAFFIC.

738 OMITTED

739 OMITTED

740 OMITTED

741 FOR DIVIDED ROADWAYS, THE REQUIRED ADVANCE WARNING SIGNS SHALL BE POSTED ON BOTH THE RIGHT AND LEFT SIDE OF THE ROADWAY.

742 THE CONTRACTOR SHALL CLOSE THE LANE ADJACENT TO THE WORK AREA ANYTIME WORK OUTSIDE THE EXISTING TRAVEL LANES ENCROACHES WITHIN 2 FEET OF THE EXISTING EDGE OF PAVEMENT.

743 OMITTED

744 THE TRANSITION TAPER LENGTH (L) IS SHOWN IN TABLE 6C-4, AND THE BUFFER LENGTH IS SHOWN IN TABLE 6C-2 OF THE MUTCD, PART 6, 2009 EDITION.

745 OMITTED

746 UNEVEN LANES SIGNS SHALL BE COVERED OR REMOVED WHEN NO UNEVEN PAVEMENT CONDITIONS EXIST.

747 MOVING OPERATIONS SHALL BE CONFINED TO ONE LANE IN THE DIRECTION OF TRAFFIC.

748 R16-3 (WHEN WORKERS ARE PRESENT BEGIN HIGHER FINES) AND R16-3A (END HIGHER FINES) SIGNS SHALL BE REQUIRED FOR EVERY PROJECT ON STATE ROUTES AND INTERSTATE HIGHWAYS. THESE SIGNS SHALL BE POSTED AT THE BEGINNING AND END OF THE PROJECT WITH AN R2-1 (REGULATORY SPEED SIGN) ALWAYS FOLLOWING THE R16-3 SIGN. R16-3B (HIGHER FINES ZONE) AND R2-1 SIGNS SHALL BE POSTED AT MAXIMUM INTERVALS OF THREE MILES THROUGHOUT THE PROJECT LIMITS.

749 WHEN A CONSTRUCTION WORK ZONE SPEED LIMIT REDUCTION IS NOT REQUIRED AT THE END OF THE WORK DAY, THE CONTRACTOR SHALL COVER OR REMOVE THE REDUCED R2-1 (REGULATORY SPEED SIGNS) AND THE W3-5B (REDUCED SPEED AHEAD) SIGNS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

750 DURING REPLACEMENT OF GUARDRAIL AND/OR GUARDRAIL END ANCHORS, A REFLECTORIZED DRUM SHALL BE PLACED BEFORE THE END OF ANY EXPOSED GUARDRAIL AT NIGHT WHERE THE GUARDRAIL END ANCHOR CANNOT BE REPLACED IN ONE DAY'S TIME.

751 CONSTRUCTION SIGNS MOUNTED ON A SINGULAR OR DUAL SQUARE TUBULAR OR U-CHANNEL POST SHALL BE INSTALLED AS SHOWN ON SPECIAL DRAWING NOS. IHS-710-21 AND IHS-710-23.

752 THE CONTRACTOR AND THE CONSTRUCTION ENGINEER SHALL DISCUSS AND PLAN FOR THE HANDLING OF TRAFFIC FOR ALL HOLIDAYS BEFORE ANY WORK BEGINS. UNLESS OTHERWISE PRE-APPROVED BY THE REGION ENGINEER, THE FOLLOWING SHALL HOLD:

THE CONTRACTOR SHALL NOT HAVE A LANE CLOSURE DURING THE FOLLOWING PERIODS UNLESS OTHERWISE DIRECTED BY THE ENGINEER OR ALDOT:

FOR CHRISTMAS AND NEW YEARS DAY:
FROM 11:59 PM DECEMBER 23 THROUGH 6:00 AM JANUARY 2.

FOR NATIONAL MEMORIAL DAY AND LABOR DAY:
FROM 12:00 NOON THE FRIDAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR INDEPENDENCE DAY (THE 4TH OF JULY):
FROM 12:00 NOON THE DAY BEFORE THE HOLIDAY THROUGH 11:59 PM THE DAY OF THE HOLIDAY.

FOR THANKSGIVING DAY:
FROM 12:00 NOON THE WEDNESDAY BEFORE THANKSGIVING DAY THROUGH 11:59 PM THE SUNDAY FOLLOWING THANKSGIVING DAY.

ANY OTHER STATE HOLIDAYS WILL BE HANDLED AS APPROVED BY THE PROJECT ENGINEER.

THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND LOCAL GOVERNMENT ON TRAFFIC AND/OR WORK RESTRICTIONS FOR LOCAL HOLIDAYS OR EVENTS NOT LISTED ON ALDOT'S LIST OF OFFICIAL STATE HOLIDAYS.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Modified Note 748 for the addition of the R13-3b sign on 9-28-2021 by D.J.W.
2. Aligned text for Note 746 on 12-8-2021 by D.J.W.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN:
REVISED DATE: 12-8-2021

DESIGN BUREAU SPECIAL DRAWING: GENERAL TRAFFIC CONTROL PLAN NOTES

SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL

INDEX NO: 2000

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JOB NO.
24001

DESCRIPTION:
TRAFFIC CONTROL DETAILS

SHEET
C8.2

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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C8 02 Traffic Control Details.dwg	

ALABAMA REGISTERED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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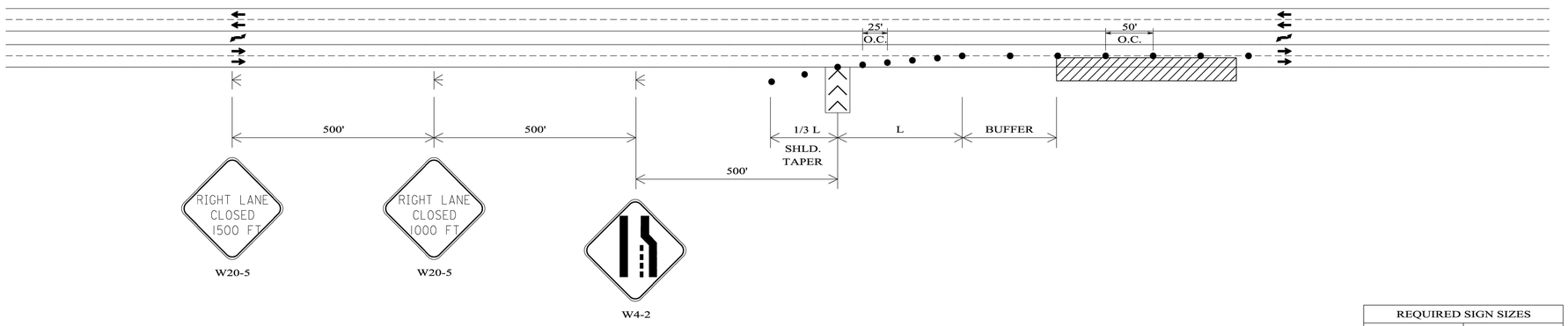
TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

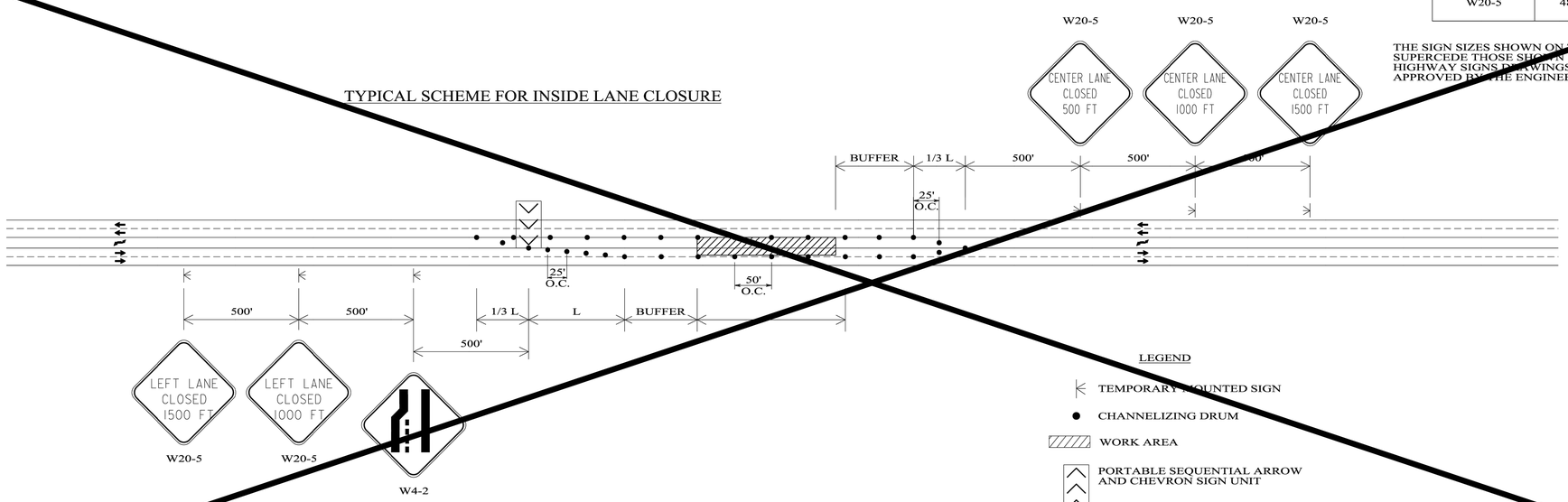
TYPICAL SCHEME FOR OUTSIDE LANE CLOSURE



REQUIRED SIGN SIZES	
W4-2	48" X 48"
W20-5	48" X 48"

THE SIGN SIZES SHOWN ON THIS SHEET SHALL SUPERCEDE THOSE SHOWN ON THE STANDARD HIGHWAY SIGNS DRAWINGS UNLESS OTHERWISE APPROVED BY THE ENGINEER.

TYPICAL SCHEME FOR INSIDE LANE CLOSURE



LEGEND

- TEMPORARY MOUNTED SIGN
- CHANNELIZING DRUM
- WORK AREA
- PORTABLE SEQUENTIAL ARROW AND CHEVRON SIGN UNIT

GENERAL NOTES

1. ALL SIGNS SHALL BE TEMPORARY MOUNTED AS SHOWN.

NOT TO SCALE

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REVISIONS:
1. Removed errant text on 12-8-2021 by D.J.W.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN:
REVISED DATE: 12-8-2021

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR 5-LANE HIGHWAYS

SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL
INDEX NO: 2004

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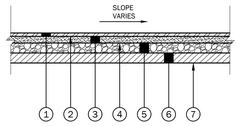
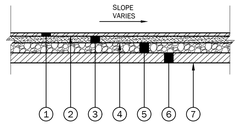


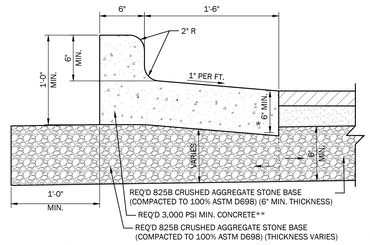
1 **LIGHT DUTY ASPHALT PAVEMENT**
NOT TO SCALE

1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(2" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(6" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
6. REQ'D: SUBGRADE (ROADBED PROCESSED, COMPACTED TO 98% ASTM D 698) (6" MIN THICKNESS)(AS DIRECTED BY THE OWNER'S REPRESENTATIVE)
7. REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)

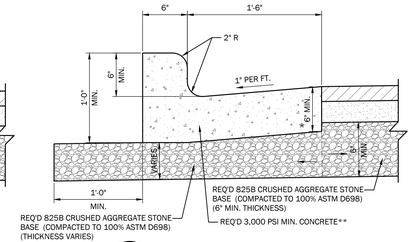


2 **HEAVY DUTY ASPHALT PAVEMENT**
NOT TO SCALE

1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(2.5" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(8" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
6. REQ'D: SUBGRADE (ROADBED PROCESSED, COMPACTED TO 98% ASTM D 698) (6" MIN THICKNESS)(AS DIRECTED BY THE OWNER'S REPRESENTATIVE)
7. REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)

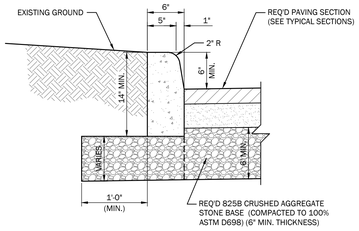


3A **TYPE "C" COMBINATION CURB & GUTTER (INVERTED)**
NOT TO SCALE



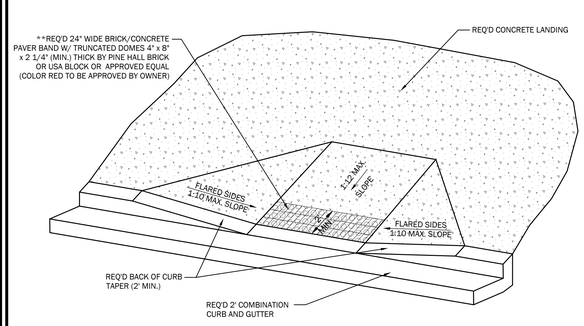
3B **TYPE "C" COMBINATION CURB & GUTTER**
NOT TO SCALE

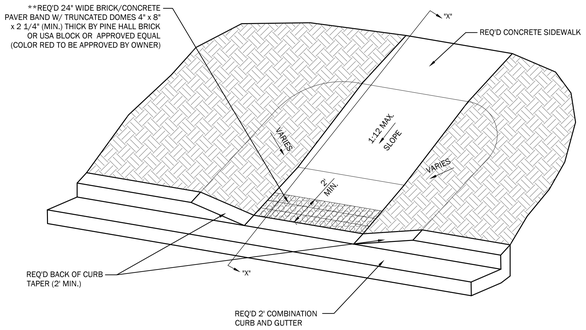
NOTES:
1. THE CONTRACTOR SHALL BE PERMITTED TO USE MACHINE PLACEMENT. THE MACHINE SHALL BE SO DESIGNED TO PLACE, SPREAD, CONSOLIDATE, SCREED, AND FINISH THE CONCRETE IN ONE (1) COMPLETE PASS IN SUCH A MANNER THAT A MINIMUM OF HAND FINISHING WILL BE NECESSARY TO PROVIDE A DENSE AND HOMOGENOUS CONCRETE SECTION. THE MACHINE SHALL SHAPE, VIBRATE, AND/OR EXTRUDE THE CONCRETE FOR THE FULL REQUIRED CONCRETE SECTION BEING PLACED.
2. EXPANSION JOINTS REQ'D. @ 50' INTERVALS (IF HAND FORMED), AT ALL RADII POINTS AT CONCRETE ENTRANCES AND CURB RETURNS, AT DROP INLETS, AT END OF WORK DAYS, AND/OR ALL COLD JOINTS. FILLER MATERIAL SHALL CONFORM TO ASTM C920 AND BE FURNISHED IN A SINGLE ONE-HALF INCH (1/2") THICK PIECE FOR FULL DEPTH AND WIDTH OF THE JOINT.
3. CONTRACTION JOINTS MAY BE SAWCUT OR HANDFORMED. JOINTS SHALL BE 1/4 x CONCRETE THICKNESS IN DEPTH BY 1/8" WIDE AND SHALL BE 10' O.C.
* 4. GUTTER THICKNESS SHALL MATCH ADJACENT PAVEMENT THICKNESS WHEN INSTALLED WITH CONCRETE PAVEMENT (SEE PLANS AND CONCRETE PAVEMENT DETAILS.)
** 5. VALLEY GUTTER ADJACENT TO CONCRETE PAVEMENT SHALL BE POURED WITH CONCRETE THAT HAS A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AND 600 PSI FLEXURAL STRENGTH AT 28 DAYS.
6. CONTRACTOR SHALL ADD 1"Ø DOWELS, 14" LONG, 12" O.C. AT ALL VALLEY GUTTERS AND OTHER FLAT SURFACES ADJACENT TO CONCRETE PAVEMENT UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
7. SEE GRADING/EARTHWORK NOTES AND SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
8. WHEN CURB, CURB AND GUTTER AND/OR BAND CURB ARE REQUIRED ADJACENT TO NEW PAVEMENT, THE BASE LAYER THICKNESS SHALL VARY BENEATH THE CURB, CURB AND GUTTER OR, BASED ON THE REQUIRED PAVEMENT BUILDUP. MEASUREMENT ON UNIT PRICE CONTRACTS SHALL STILL BE MEASURED FROM ONE (1) FOOT BEHIND CURB AND THE THICKNESS. VARIATION CONSIDERED INCIDENTAL. THIS LAYER OF STONE SHALL ENSURE A GOOD, ALL WEATHER SUPPORT FOR THE CURB, CURB AND GUTTER, ETC.

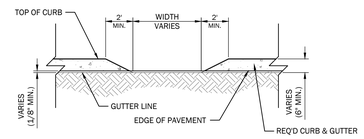


4 **6" STANDUP CURB**
NOT TO SCALE

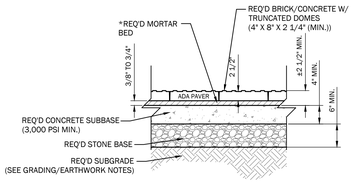
NOTES:
1. THE CONTRACTOR SHALL BE PERMITTED TO USE MACHINE PLACEMENT. THE MACHINE SHALL BE SO DESIGNED TO PLACE, SPREAD, CONSOLIDATE, SCREED, AND FINISH THE CONCRETE IN ONE (1) COMPLETE PASS IN SUCH A MANNER THAT A MINIMUM OF HAND FINISHING WILL BE NECESSARY TO PROVIDE A DENSE AND HOMOGENOUS CONCRETE SECTION. THE MACHINE SHALL SHAPE, VIBRATE, AND/OR EXTRUDE THE CONCRETE FOR THE FULL REQUIRED CONCRETE SECTION BEING PLACED.
2. EXPANSION JOINTS REQ'D. @ 50' INTERVALS (IF HAND FORMED), AT ALL RADII POINTS AT CONCRETE ENTRANCES AND CURB RETURNS, AT DROP INLETS, AT END OF WORK DAYS, AND/OR ALL COLD JOINTS. FILLER MATERIAL SHALL CONFORM TO ASTM C920 AND BE FURNISHED IN A SINGLE ONE-HALF INCH (1/2") THICK PIECE FOR FULL DEPTH AND WIDTH OF THE JOINT.
3. CONTRACTION JOINTS MAY BE SAWCUT OR HANDFORMED. JOINTS SHALL BE 1/4 x CONCRETE THICKNESS IN DEPTH BY 1/8" WIDE AND SHALL BE 10' O.C.
4. CONTRACTOR SHALL ADD 1"Ø DOWELS, 14" LONG, 12" O.C. AT ALL VALLEY GUTTERS AND OTHER FLAT SURFACES ADJACENT TO CONCRETE PAVEMENT UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. SEE GRADING/EARTHWORK NOTES AND SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
6. WHEN CURB, CURB AND GUTTER AND/OR BAND CURB ARE REQUIRED ADJACENT TO NEW PAVEMENT, THE BASE LAYER THICKNESS SHALL VARY BENEATH THE CURB, CURB AND GUTTER OR, BASED ON THE REQUIRED PAVEMENT BUILDUP. MEASUREMENT ON UNIT PRICE CONTRACTS SHALL STILL BE MEASURED FROM ONE (1) FOOT BEHIND CURB AND THE THICKNESS. VARIATION CONSIDERED INCIDENTAL. THIS LAYER OF STONE SHALL ENSURE A GOOD, ALL WEATHER SUPPORT FOR THE CURB, CURB AND GUTTER, ETC.



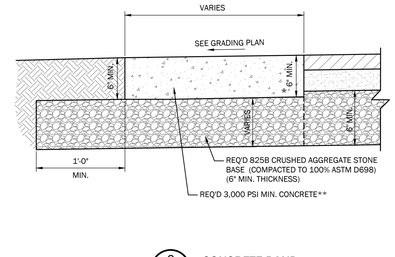




BACK OF CURB TAPER

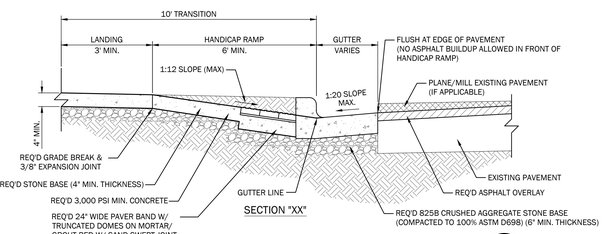


PAVER INSTALLATION TYPICAL

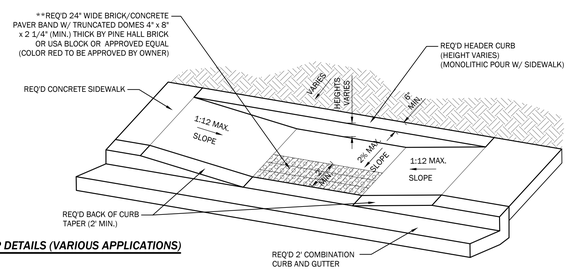


6 **CONCRETE BAND**
NOT TO SCALE

NOTES:
1. THE CONTRACTOR SHALL BE PERMITTED TO USE MACHINE PLACEMENT. THE MACHINE SHALL BE SO DESIGNED TO PLACE, SPREAD, CONSOLIDATE, SCREED, AND FINISH THE CONCRETE IN ONE (1) COMPLETE PASS IN SUCH A MANNER THAT A MINIMUM OF HAND FINISHING WILL BE NECESSARY TO PROVIDE A DENSE AND HOMOGENOUS CONCRETE SECTION. THE MACHINE SHALL SHAPE, VIBRATE, AND/OR EXTRUDE THE CONCRETE FOR THE FULL REQUIRED CONCRETE SECTION BEING PLACED.
2. EXPANSION JOINTS REQ'D. @ 50' INTERVALS (IF HAND FORMED), AT ALL RADII POINTS AT CONCRETE ENTRANCES AND CURB RETURNS, AT DROP INLETS, AT END OF WORK DAYS, AND/OR ALL COLD JOINTS. FILLER MATERIAL SHALL CONFORM TO ASTM C920 AND BE FURNISHED IN A SINGLE ONE-HALF INCH (1/2") THICK PIECE FOR FULL DEPTH AND WIDTH OF THE JOINT.
3. CONTRACTION JOINTS MAY BE SAWCUT OR HANDFORMED. JOINTS SHALL BE 1/4 x CONCRETE THICKNESS IN DEPTH BY 1/8" WIDE AND SHALL BE 10' O.C.
4. CONTRACTOR SHALL ADD 1"Ø DOWELS, 14" LONG, 12" O.C. AT ALL VALLEY GUTTERS AND OTHER FLAT SURFACES ADJACENT TO CONCRETE PAVEMENT UNLESS OTHERWISE DIRECTED BY THE OWNER'S REPRESENTATIVE.
5. SEE GRADING/EARTHWORK NOTES AND SPECIFICATIONS FOR SUBGRADE REQUIREMENTS.
6. WHEN CURB, CURB AND GUTTER AND/OR BAND CURB ARE REQUIRED ADJACENT TO NEW PAVEMENT, THE BASE LAYER THICKNESS SHALL VARY BENEATH THE CURB, CURB AND GUTTER OR, BASED ON THE REQUIRED PAVEMENT BUILDUP. MEASUREMENT ON UNIT PRICE CONTRACTS SHALL STILL BE MEASURED FROM ONE (1) FOOT BEHIND CURB AND THE THICKNESS. VARIATION CONSIDERED INCIDENTAL. THIS LAYER OF STONE SHALL ENSURE A GOOD, ALL WEATHER SUPPORT FOR THE CURB, CURB AND GUTTER, ETC.

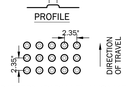


SECTION "XX"

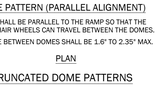


5 **HANDICAP RAMP DETAILS (VARIOUS APPLICATIONS)**
NOT TO SCALE

NOTES:
1. CURB RAMP LENGTH DEPENDS ON THE HEIGHT OF CURBING.
2. THE CONTRACTOR MUST MEET TRUNCATED DOME PATTERN DIMENSIONS ON ALL HANDICAP RAMPS AS SHOWN IN THE DETAIL.
3. WHEN INSTALLING THE BRICK PAVERS THE CONTRACTOR SHALL USE THE 3/8" MORTAR/ GROUT BED WITH SAND SWEPT JOINT INSTALLATION METHOD SUITABLE FOR HIGH TRAFFIC AND DRIVE OVERS BY TURNING VEHICLES. SAND COLOR SHALL MATCH PAVERS.
* 4. CONTRACTOR SHALL ACCOUNT FOR PAVER THICKNESS AND MORTAR/GROUT BED THICKNESS TO ENSURE THAT AFTER INSTALLATION OVER THE CONCRETE SUBBASE THERE IS A FLUSH TRANSITION WITH THE BACK OF THE CONCRETE GUTTER.
** 5. CONTRACTOR SHALL INSTALL AN ON-SITE SAMPLE HANDICAP RAMP AREA (MIN. 2' X 6') TO VERIFY THE BRICK, MORTAR AND SAND COLOR AND ESTABLISH THE QUALITY STANDARD FOR PAVER INSTALLATION AND CONCRETE INSTALLATION THROUGHOUT THE PROJECT.
*** 6. REQUIRED SIDEWALK STONE BASE LAYER TO BE NO. 8910 OR DENSE GRADE BASE COMPACTED TO 100% STANDARD PROCTOR. PLACE STONE BASE UNDER ALL CONCRETE SIDEWALK AND PAVERS AND CONCRETE SUB BASE.
7. THE USE OF TRUNCATED DOME MATS MUST BE APPROVED BY THE OWNER'S REPRESENTATIVE IN ADVANCE OF ITS USE. INSTALLATION WITHOUT PRIOR APPROVAL SHALL RESULT IN REMOVAL/REPLACEMENT AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR SHALL SUBMIT AN ACTUAL BRICK PAVER SAMPLE DURING MATERIAL SUBMITTALS.



PROFILE

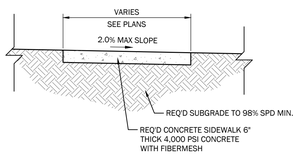


SQUARE PATTERN (PARALLEL ALIGNMENT)

1. DOMES SHALL BE PARALLEL TO THE RAMP SO THAT THE WHEELCHAIR WHEELS CAN TRAVEL BETWEEN THE DOMES.
2. DISTANCE BETWEEN DOMES SHALL BE 1.6" TO 2.35" MAX.

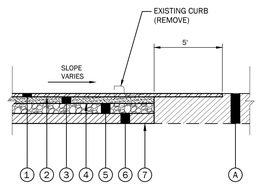
PLAN

TRUNCATED DOME PATTERNS



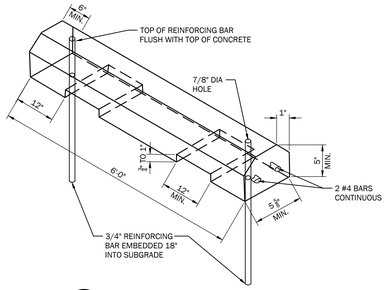
NOTES:
1. EXPANSION JT. REQ'D. @ 40' MAX. INTERVALS BUT NOT LESS THAN 30' WITH EXPANSION JOINT MATERIAL.
2. CONTRACTION JOINTS SHALL BE HAND-TOOLED ONLY IN LOCATIONS AS INDICATED BY THE SCORING PATTERN SHOWN IN THE CONSTRUCTION PLANS. JOINTS SHALL BE INSTALLED AT A DEPTH OF 1/4 THICKNESS OF THE SLAB MIN. NO SAW-CUT OF JOINTS IS ALLOWED.
3. SIDEWALKS SHALL HAVE AN EXPANSION JOINT INSTALLED IN ALL LOCATIONS WHERE NEW IMPROVEMENTS MEET EXISTING INFRASTRUCTURE.
4. SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2%.
5. EXPANSION JOINT MATERIAL SHALL BE PUSHED DOWN 1/8" FROM TOP OF SIDEWALK.
6. EXPANSION JOINT MATERIAL SHALL BE CONTINUOUS THROUGH THE OVERALL DEPTH OF THE SIDEWALK.

7 **CONCRETE SIDEWALK**
NOT TO SCALE



8 **TYPICAL ASPHALT PAVEMENT MILLING AND PLANING**
NOT TO SCALE

1. REQ'D: SUPERPAVE BITUMINOUS CONCRETE WEARING SURFACE LAYER, ½" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424A)(1.5" COMPACTED THICKNESS)
2. REQ'D: TACK COAT (TRACKLESS TACK) (ALDOT 405A)(0.10 GAL/SY)
3. REQ'D: SUPERPAVE BITUMINOUS CONCRETE BINDER UPPER LAYER, 1" MAXIMUM AGGREGATE SIZE MIX (ALDOT 424B)(2.5" COMPACTED THICKNESS)
4. REQ'D: PRIME COAT "A" (ALDOT SECTION 401D)
5. REQ'D: CRUSHED AGGREGATE STONE BASE COURSE (ALDOT 825B)(8" COMPACTED THICKNESS) (COMPACTED TO 100% ASTM D 698)
6. REQ'D: SUBGRADE (ROADBED PROCESSED, COMPACTED TO 98% ASTM D 698) (6" MIN THICKNESS)(AS DIRECTED BY THE OWNER'S REPRESENTATIVE)
7. REQ'D: UNCLASSIFIED/BORROW EXCAVATION (COMPACTED TO 98% ASTM D 698)
A. EXISTING ASPHALT PAVEMENT (RETAIN)



9 **PRECAST CONCRETE PARKING BUMPER**
NOT TO SCALE

TTL
10 Inverness Center Parkway, Suite 350
Hoover, AL 35242
205.526.3970 | www.ttlusa.com

Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

BILL WHITTAKER, P.C.
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ANNISTON, AL 36206
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Pell City, AL 35125
205-884-5344
Attn: Jeremy Deal

MECHNICAL/PLUMBING/FIRE PROTECTION ENGINEER
Whorton Engineering, Inc.
25 Summerall Gate Road
Anniston, AL 36205
256-820-9897
Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
STANDARD DETAILS

SHEET
C9.1

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03.28.2025

3/21/2024 11:29:03 AM

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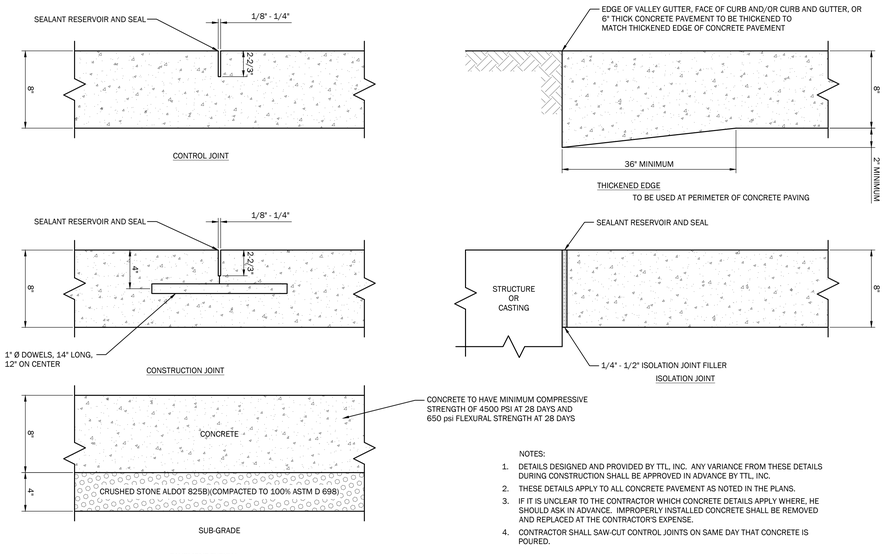
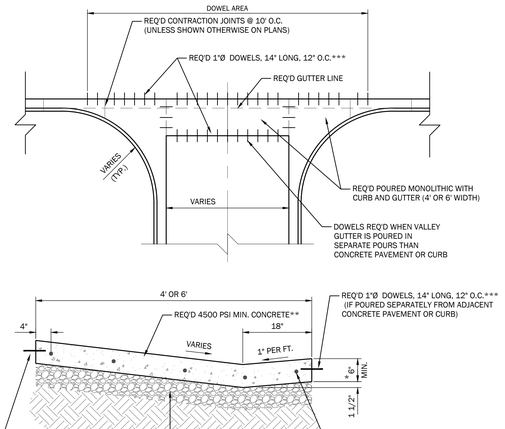


NOTES:

1. DETAILS DESIGNED AND PROVIDED BY TTL, INC. ANY VARIANCE FROM THESE DETAILS DURING CONSTRUCTION SHALL BE APPROVED IN ADVANCE BY TTL, INC.
2. THESE DETAILS APPLY TO ALL CONCRETE PAVEMENT AS NOTED IN THE PLANS.
3. IF IT IS UNCLEAR TO THE CONTRACTOR WHICH CONCRETE DETAILS APPLY WHERE, HE SHOULD ASK IN ADVANCE. IMPROPERLY INSTALLED CONCRETE SHALL BE REMOVED AND REPLACED AT THE CONTRACTOR'S EXPENSE.
4. CONTRACTOR SHALL SAW-CUT CONTROL JOINTS ON SAME DAY THAT CONCRETE IS POURED.

1 **CONCRETE PAVEMENT DETAILS**
NOT TO SCALE



NOTES:

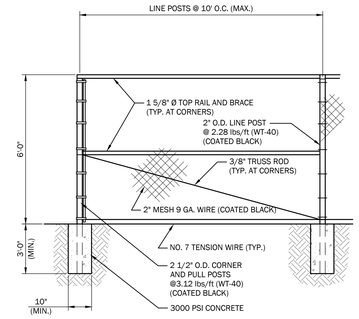
1. EXPANSION JT. REQ'D. @ 50' INTERVALS. CONTRACTION JOINTS SHALL BE SAWCUT 2" DEEP BY 1/8" WIDE AND SHALL BE 10' O.C.
2. THE CONTRACTOR SHALL MATCH THE DIMENSIONS AND PROFILE OF THE EXISTING COMBINATION CURB AND GUTTER. GUTTER THICKNESS SHALL BE 6" MINIMUM. (IF APPLICABLE)

* 3. GUTTER THICKNESS SHALL MATCH ADJACENT PAVEMENT THICKNESS WHEN INSTALLED WITH CONCRETE PAVEMENT.

** 4. VALLEY GUTTER ADJACENT TO CONCRETE PAVEMENT SHALL BE POURED WITH CONCRETE THAT HAS A COMPRESSIVE STRENGTH OF 4500 PSI AT 28 DAYS AND 650 psi FLEXURAL STRENGTH AT 28 DAYS.

*** 5. DOWELS SHALL BE INSTALLED ALONG THE EDGE OF THE VALLEY GUTTER WHEN ADJACENT TO CONCRETE PAVEMENT (SEE PLANS AND CONCRETE PAVING DETAILS.)

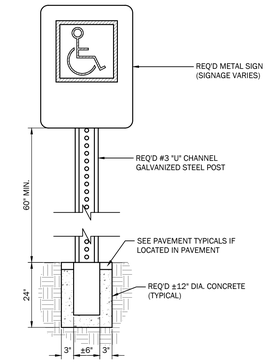
2 **4'-6' VALLEY GUTTER**
NOT TO SCALE



NOTES:

1. THE PERMANENT CHAIN LINK FENCING SHALL BE VINYL COATED BLACK WITH A HIGH GRADE, EXTERIOR FINISH.
2. WHERE BREAKS IN PROFILE OF FENCE TOP ARE NECESSARY IN ROUGH TERRAIN THEY SHALL BE MADE IN THE LEAST NUMBER OF INTERVALS PRACTICAL. BREAKS SHALL SPREAD OVER VERTICAL CURVES OF SUFFICIENT LENGTHS TO ENSURE A PLEASING APPEARANCE.

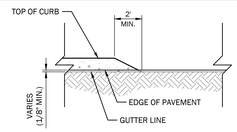
3 **VINYL COATED CHAINLINK FENCE DETAIL**
NOT TO SCALE



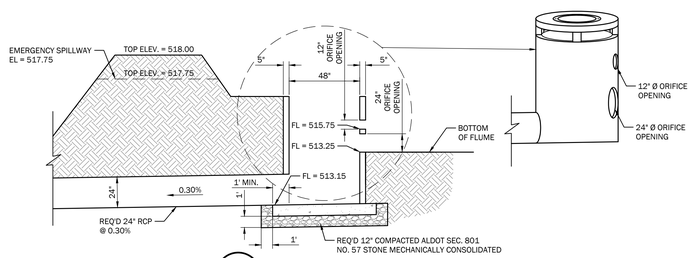
NOTES:

1. ALL PERMANENT SIGNS SHALL BE STANDARD SIGNS (FLAT PANEL) 0.800 ALUMINUM OR 14 GAUGE STEEL FLAT.

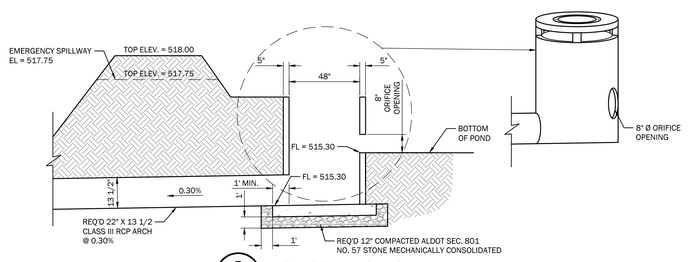
4 **PERMANENT SIGN POST DETAIL**
NOT TO SCALE



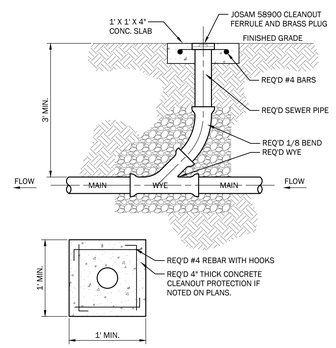
5 **2' CURB TAPER**
NOT TO SCALE



6 **POND 1 OUTLET STRUCTURE**
NOT TO SCALE



7 **POND 2 OUTLET STRUCTURE**
NOT TO SCALE

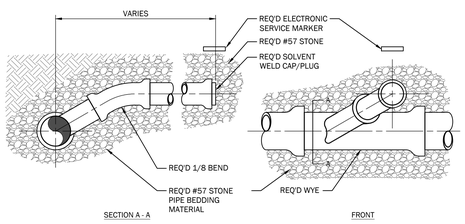


CLEANOUT PROTECTION DETAIL

NOTES:

1. CLEANOUT CONCRETE PROTECTION SHALL BE USED AS NOTED ON THE PLANS.
2. CLEANOUTS LOCATED IN PAVED AREAS (SIDEWALK, ROADWAYS, ETC.) SHALL HAVE TRAFFIC RATED TOPS.

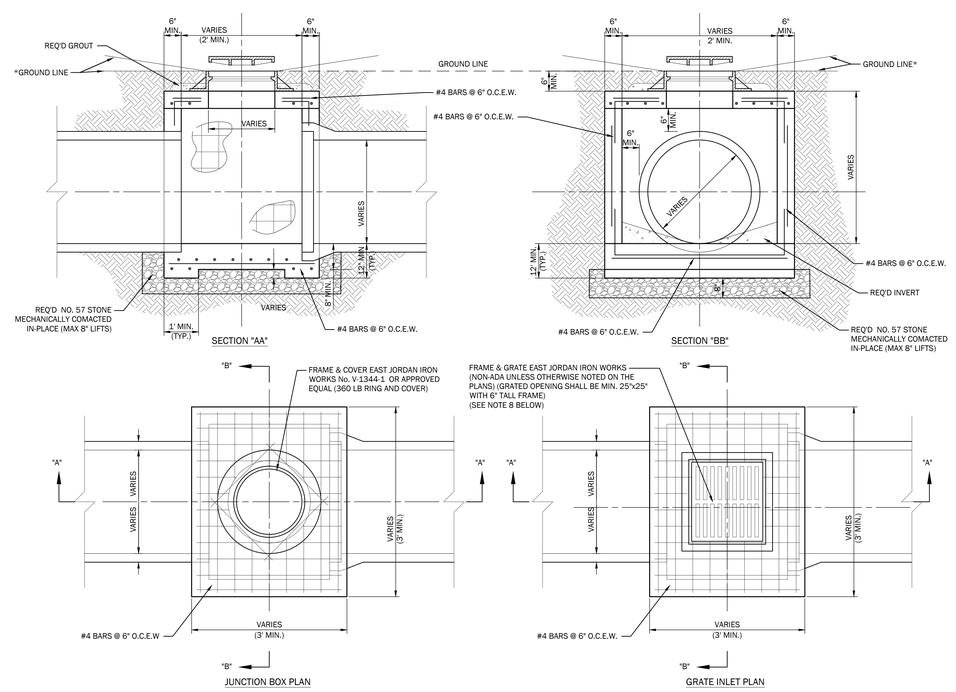
8 **CLEANOUT DETAIL**
NOT TO SCALE



NOTES:

1. LATERAL AND RISER CONNECTIONS SHALL EXTEND A MINIMUM OF 1 FOOT BEHIND BACK OF CURB BEFORE PLUGGING.

9 **TYPICAL CONNECTION DETAIL**
NOT TO SCALE



JUNCTION BOX PLAN

GRATE INLET PLAN

NOTES FOR ALL CONCRETE STORM DRAIN STRUCTURES:

1. USE MIN. 3000 P.S.I. CONCRETE AND DEFORMED REINFORCING STEEL TO CONSTRUCT THIS ITEM.
2. SHAPE BOTTOM TO FLOW LINE OF PIPES.
3. STEPS ARE REQUIRED FOR ALL STRUCTURES OVER 4 FEET IN DEPTH MEASURED FROM TOP OF BOX TO INVERT OUT. STEP SPACING SHALL BE AS DIRECTED BY THE ENGINEER.
4. ALL CONCRETE BOXES SHALL INCLUDE FORMED INVERTS AND RING AND COVERS OF THE TYPE SPECIFIED.

*5. GROUND LINE SHALL BE SLOPED TOWARD GRATE INLET TOP. GROUND LINE SHALL BE SLOPED AWAY FROM JUNCTION BOX TOP.

6. THE CONTRACTOR SHALL REFER TO SPECIAL DRAWING NO. JB-620-B OF THE ALDOT SPECIAL AND STANDARD DRAWINGS, LATEST EDITION, FOR DIMENSIONS AND OTHER INFORMATION NECESSARY TO CONSTRUCT THIS ITEM.
7. WHEN INSTALLING A SOLID TOP FOR JUNCTION BOX OR HOLED TOP FOR GRATE INLET ON AN EXISTING STRUCTURE, THE CONTRACTOR SHALL DOWEL INTO THE TOP OF THE EXISTING STRUCTURE WALLS WITH 12" LONG #5 BARS AT 6" O.C. ALONG THE PERIMETER OF THE STRUCTURE TO ATTACH THE NEW TOP. THE CONTRACTOR SHALL APPLY AN APPROVED EPOXY FOR THE DOWEL INSTALLATIONS. THE TOP REINFORCEMENTS SHALL THEN BE TIED TO THESE DOWELS. PREPARATION OF THE EXISTING CONCRETE SHALL FOLLOW THE CONCRETE SPECIFICATIONS.
8. FRAME SHALL BE EJIW MODEL V5626-2 & GRATE SHALL BE EJIW MODEL V5726, OR APPROVED EQUAL.
9. IF THE CONTRACTOR CHOOSES TO USE A STANDARD PRECAST MANHOLE FOR THE DRAINAGE STRUCTURE, THEN HE SHALL REFERENCE THE STANDARD PRECAST MANHOLE DETAIL FOR ALL REQUIREMENTS.

10 **JUNCTION BOX & GRATE INLET**
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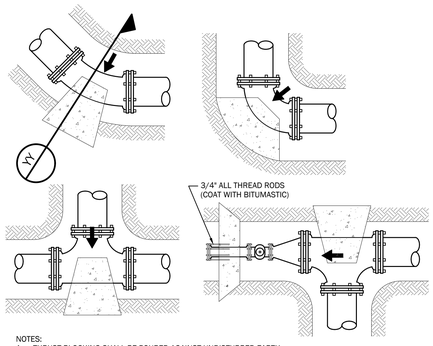


NOTES:
1. THRUST BLOCKING SHALL BE POURED AGAINST UNDISTURBED EARTH.
2. CONCRETE SHALL BE KEPT CLEAR OF JOINT AND JOINT ACCESSORIES.
3. BEARING AREA OF THRUST BLOCKS ARE BASED ON 150 PSI TEST PRESSURE AND AN ALLOWABLE SOIL BEARING OF 2000 PSF. BEARING AREAS VALUES SHALL BE ADJUSTED IF THE SPECIFICATIONS REQUIRE A DIFFERENT TEST PRESSURE OR ALLOWABLE SOIL BEARING. PROVIDE ADDITIONAL AREA IF DICTATED BY THE CONDITIONS ACTUALLY ENCOUNTERED.
4. ANY SPECIAL THRUST BLOCKING DETAILED ON THE PLANS SHALL SUPERSEDE THIS DETAIL.
5. VERTICAL BENDS THAT REQUIRE A THRUST BLOCK VOLUME GREATER THAN 5 C.Y. REQUIRE SPECIAL BLOCKING DETAILS.
6. ALL PRESSURE PIPE 3 INCHES IN DIAMETER AND OVER SHALL BE PROVIDED WITH CONCRETE THRUST RESTRAINTS.

1 **THRUST BLOCKING DETAILS & NOTES**
NOT TO SCALE

TABLE "A"

BEARING AREA FOR THRUST BLOCKS SHALL BE ADJUSTED TO MATCH FIELD CONDITIONS ENCOUNTERED.

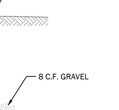
	MINIMUM BEARING AREA OF THRUST BLOCKS (SQ. FT.)				
DIA. (IN.)	TEE, WYE, PLUG, CAP	90° BEND PLUGGED CROSS	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.3	2.0	1.0	—	—
6	2.8	4.0	2.0	1.0	—
8	4.8	6.8	3.7	1.9	1.0
10	7.3	10.3	5.5	2.8	1.4
12	10.3	14.5	7.8	4.0	2.0
14	13.8	19.5	10.6	5.4	2.7
16	17.8	25.2	13.6	6.9	3.5
18	22.4	31.7	17.1	8.7	4.4
20	27.5	38.9	21.0	10.7	5.4
24	39.2	55.4	30.0	15.3	7.7
30	60.3	85.3	46.2	23.5	11.8
36	86.4	122.2	66.1	33.7	16.9
42	116.6	164.9	89.3	45.5	22.8
48	152.0	214.9	116.3	59.3	29.7
54	192.0	271.6	147.0	74.9	37.6

MINIMUM REQUIRED BEARING AREA FOR CONCRETE THRUST BLOCKS

HORIZONTAL

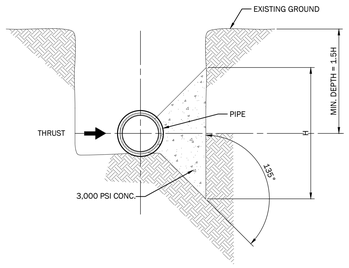
MINIMUM VOLUME OF THRUST BLOCK IN CUBIC YARDS (VERTICAL BENDS)			
FITTING SIZE	BEND ANGLE		
	45° BEND	22 1/2° BEND	11 1/4° BEND
4	1.1	0.4	0.2
6	2.7	1.0	0.4
8	4.0	1.5	0.7
10	6.0	2.3	0.9
12	8.5	3.2	1.3
14	11.5	4.3	1.8
16	14.8	5.6	2.3

VERTICAL

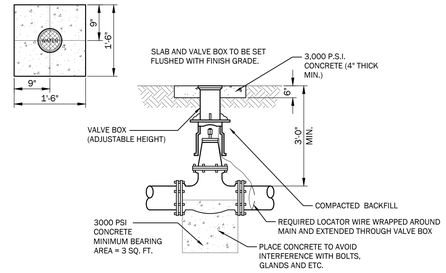


STEEL RODS OVER FITTING AND EMBEDDED IN CONCRETE, COAT WITH BITUMASTIC. (SEE TABLE TO THE RIGHT FOR SIZES AND EMBEDMENT.)

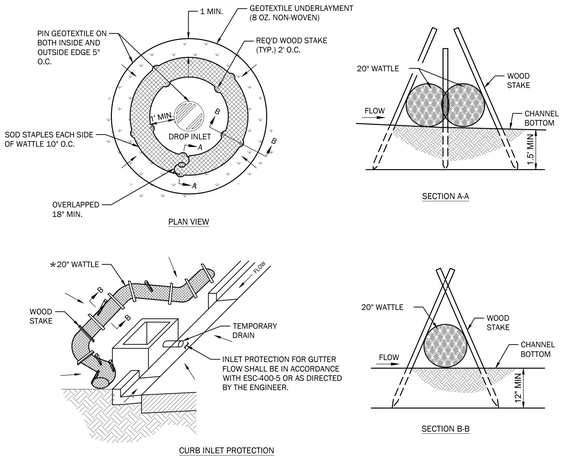
FITTING SIZE	ROD SIZE	EMBEDMENT SIZE
12" and less	6	30"
14" - 16"	8	36"



YY **TYP. SECTION @ THRUST BLOCKS**
NOT TO SCALE

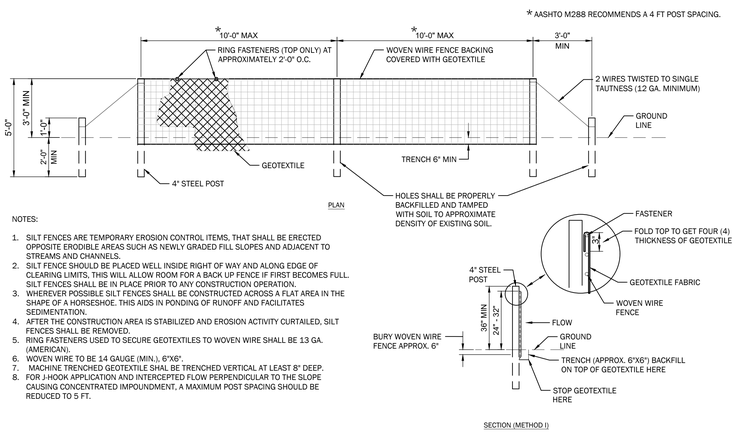


2 **GATE VALVE AND BOX DETAIL**
NOT TO SCALE



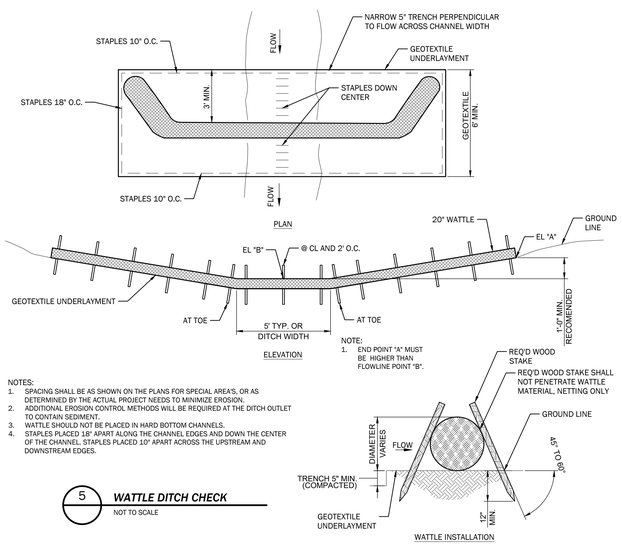
NOTES:
1. ANCHORING STAKES SHALL BE SIZED, SPACED, AND BE OF A MATERIAL THAT EFFECTIVELY SECURES THE WATTLE. STAKE SPACING SHALL BE A MAXIMUM OF TWO FEET.
2. OVERLAP ENDS OF WATTLES PER MANUFACTURERS RECOMMENDATIONS (18" MIN, 3' MAX).
*3. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

3 **WATTLE INLET PROTECTION**
NOT TO SCALE



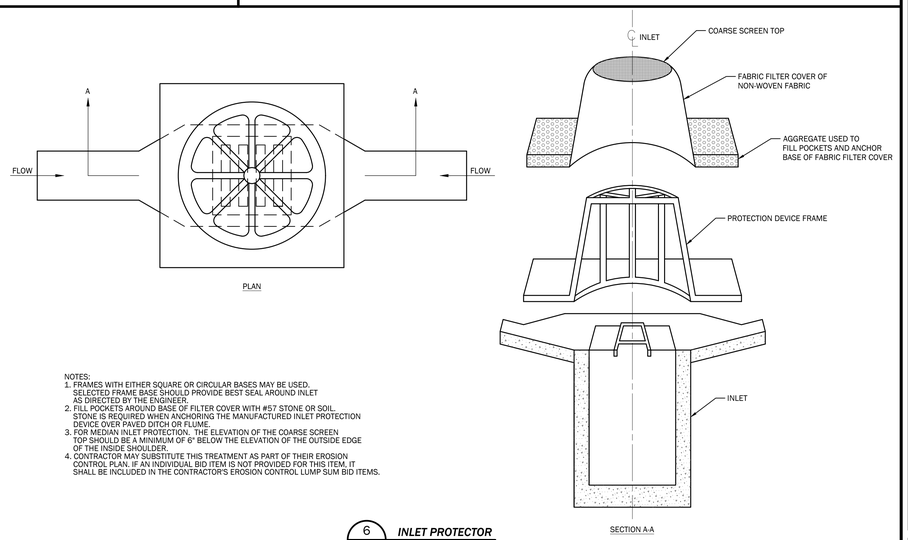
NOTES:
1. SILT FENCES ARE TEMPORARY EROSION CONTROL ITEMS, THAT SHALL BE ERECTED OPPOSITE ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
2. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT OF WAY AND ALONG EDGE OF CLEARING LIMITS, THIS WILL ALLOW ROOM FOR A BACK UP FENCE IF FIRST BECOMES FULL. SILT FENCES SHALL BE IN PLACE PRIOR TO ANY CONSTRUCTION OPERATION.
3. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A FLAT AREA IN THE SHAPE OF A HORSESHOE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATES SEDIMENTATION.
4. AFTER THE CONSTRUCTION AREA IS STABILIZED AND EROSION ACTIVITY CURTAILED, SILT FENCES SHALL BE REMOVED.
5. RING FASTENERS USED TO SECURE GEOTEXTILES TO WOVEN WIRE SHALL BE 13 GA. (AMERICAN).
6. WOVEN WIRE TO BE 14 GAUGE (MIN.), 6"X6".
7. MACHINE TRENCHED GEOTEXTILE SHAL BE TRENCHED VERTICAL AT LEAST 8" DEEP.
8. FOR J-HOOK APPLICATION AND INTERCEPTED FLOW PERPENDICULAR TO THE SLOPE CAUSING CONCENTRATED IMPOUNDMENT, A MAXIMUM POST SPACING SHOULD BE REDUCED TO 5 FT.

4 **SILT FENCE - TYPE "A"**
NOT TO SCALE



NOTES:
1. SPACING SHALL BE AS SHOWN ON THE PLANS FOR SPECIAL AREA'S, OR AS DETERMINED BY THE ACTUAL PROJECT NEEDS TO MINIMIZE EROSION.
2. ADDITIONAL EROSION CONTROL METHODS WILL BE REQUIRED AT THE DITCH OUTLET TO CONTAIN SEDIMENT.
3. WATTLE SHOULD NOT BE PLACED IN HARD BOTTOM CHANNELS.
4. STAPLES PLACED 18" APART ALONG THE CHANNEL EDGES AND DOWN THE CENTER OF THE CHANNEL. STAPLES PLACED 10" APART ACROSS THE UPSTREAM AND DOWNSTREAM EDGES.

5 **WATTLE DITCH CHECK**
NOT TO SCALE



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 #57 STONE OR SOIL. STONE IS REQUIRED WHEN ANCHORING THE MANUFACTURED INLET PROTECTION DEVICE OVER PAVED DITCH OR PLUME.
3. 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.
4. CONTRACTOR MAY SUBSTITUTE THIS TREATMENT AS PART OF THEIR EROSION CONTROL PLAN. IF AN INDIVIDUAL BID ITEM IS NOT PROVIDED FOR THIS ITEM, IT SHALL BE INCLUDED IN THE CONTRACTOR'S EROSION CONTROL LUMP SUM BID ITEMS.

6 **INLET PROTECTOR**
NOT TO SCALE

NOTES:
1. PLACE CONCRETE TO AVOID INTERFERENCE WITH BOLTS, GLANDS, ETC.

7 **FIRE HYDRANT ASSEMBLY DETAIL**
NOT TO SCALE

8 **SURFACE ROUGHENING**
NOT TO SCALE

NOTES:
1. WIDTH = FULL WIDTH OF VEHICULAR ACCESS, 20' MINIMUM. PROVIDE PERIODIC TOP DRESSING WITH 2' STONE, AS NECESSARY. STONE SIZE = 1 1/2" TO 3 1/2" DIA.

9 **CONSTRUCTION ENTRANCE/EXIT PAD**
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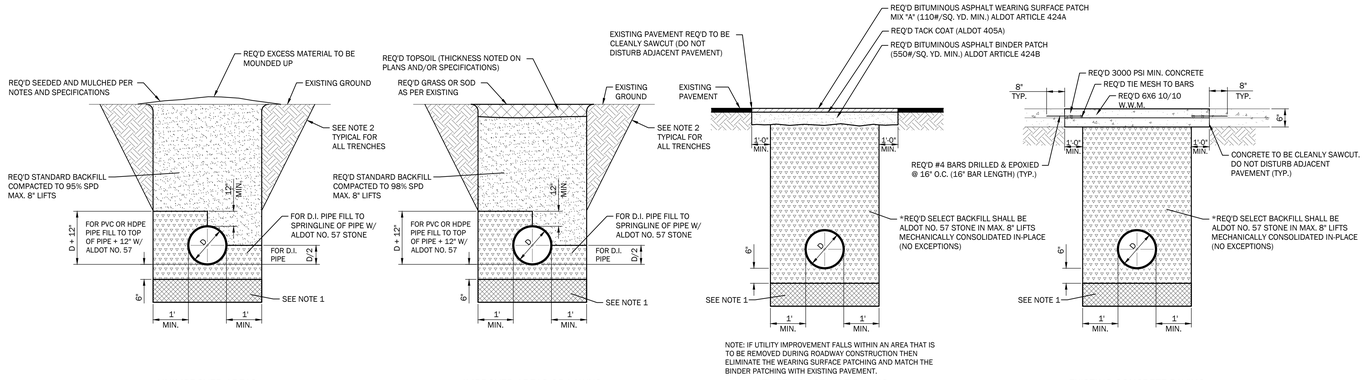
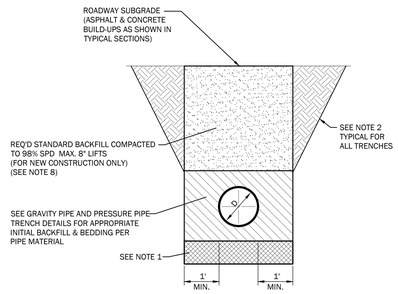


1 *TRENCH DETAILS - GRAVITY PIPE (SANITARY AND STORM)*
NOT TO SCALE

TRENCH DETAIL NOTES

1. TRENCH FOUNDATION REQUIRED IF DIRECTED BY THE ENGINEER, DEPTH VARIES.
2. THERE IS NO ADDITIONAL PAY FOR TRENCH LAY BACK, BENCHING, SHORING, TRENCH BOXES, ETC. THIS IS CONSIDERED A SUBSIDIARY OBLIGATION TO THE UTILITY INSTALLATION.
* 3. THE CONTRACTOR SHALL MECHANICALLY CONSOLIDATE ALL STONE BACKFILL IN MAXIMUM 8" LIFTS AS NOTED. FAILURE TO DO SO SHALL RESULT IN THE STONE BEING REMOVED/REINSTALLED AT THE CONTRACTOR'S EXPENSE OR ONLY PARTIAL PAYMENT BEING MADE FOR THE BID ITEM. STONE SHALL BE PLACED IN APPROPRIATE THICKNESS AND COMPACTED IN THE FOLLOWING SEQUENCE:
   (1) BEDDING (6" MIN.)
   (2) SPRINGLINE OF PIPE
   (3) ONE FOOT ABOVE TOP OF PIPE
   (4) 8" LIFTS FOR REMAINING TRENCH DEPTH
4. UNIMPROVED AREAS SHALL BE CONSIDERED AREAS WHERE NO PREVIOUS DEVELOPMENT HAS OCCURRED AND THE AREA IS NOT MAINTAINED REGULARLY SUCH AS A WOODED/FORESTED AREA OR OPEN FIELD.
5. IMPROVED AREAS OR LAWNS SHALL BE CONSIDERED AREAS WHERE REGULAR MAINTENANCE OCCURS SUCH AS IN PUBLIC RIGHT-OF-WAYS AND ON PRIVATE PROPERTIES. SETTLEMENT OF ANY KIND IN THESE AREAS IS UNACCEPTABLE AND MAXIMUM EFFORT SHALL BE GIVEN TO ENSURE THE IMPROVED/LANDSCAPE AREAS ARE RETURNED TO THEIR PREVIOUS STATE, UNLESS FURTHER IMPROVED BY THE PROJECT.
6. PAVEMENT AREAS (ASPHALT OR CONCRETE) SHALL BE CONSIDERED ANY ROADWAY, DRIVE, SIDEWALK, PAVERS, PARKING LOT, ETC. WHERE THE EXISTING OR FINAL FINISH GRADE IS AN ASPHALT OR CONCRETE SURFACE.
7. THE OWNER'S REPRESENTATIVE'S DETERMINATION OF WHAT IS AN UNIMPROVED AREA, IMPROVED AREA, OR PAVEMENT AREA IS FINAL. IF THE CONTRACTOR IS UNSURE OF WHERE UNIMPROVED , IMPROVED, OR PAVED AREAS ARE LOCATED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.
8. IN AREAS OF EXISTING PAVEMENT, THE TRENCH SHALL BE BACKFILLED COMPLETELY WITH STONE AS SHOWN ON THE EXISTING PAVEMENT TRENCH DETAILS. THESE AREAS INCLUDE CROSSING OF EXISTING ROADWAYS, PARKING LOTS, SIDEWALKS, ETC., AND ARE AREAS WHERE EXCAVATED WIDTHS DO NOT ALLOW FOR COMPACTION AND TESTING OF STANDARD BACKFILL. THESE CONFINED AREAS TYPICALLY CANNOT BE BENCHED BACK AND REQUIRE TALLER TRENCH BOXES TO MAINTAIN OSHA REQUIREMENTS.

   IN THE EVENT THAT THE EXISTING PAVEMENT AREA IS BEING COMPLETELY REMOVED TO A LIMIT THAT PROVIDES SUFFICIENT SPACE TO ALLOW PROPER VIBRATORY EQUIPMENT AND, IF NECESSARY, BENCHING OF SIDE SLOPES AS REQUIRED IN THE PROJECT EARTHWORK SPECIFICATIONS (BENCHING IS REQUIRED ON SLOPES GREATER THAN 4:1 SLOPE), THEN THE CONTRACTOR MAY FOLLOW THE TRENCH DETAIL FOR PAVED AREAS (NEW CONSTRUCTION). THIS DETAIL ALLOWS FOR THE USE OF EARTHEN BACKFILL AND WOULD ALSO REQUIRE THE CONTRACTOR TO ALLOW SUFFICIENT WIDTH THAT THE OWNER'S GEOTECHNICAL REPRESENTATIVE COULD TAKE PERIODIC COMPACTION TESTS. IF THE CONTRACTOR IS UNSURE OF WHERE STONE OR EARTHEN BACKFILL IS TO BE INSTALLED ON A PROSPECTIVE PROJECT, THEN THEY SHALL REQUEST CLARIFICATION DURING THE BIDDING OF THE PROJECT. THERE SHALL BE NO CLAIMS CONSIDERED AFTER THE PROJECT HAS BEEN BID.



2 *TRENCH DETAIL - PAVED SURFACES (NEW CONSTRUCTION)*
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REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

101 OMITTED

102 OMITTED

103 OMITTED

104 THE PAVEMENT STRUCTURE DESIGN FOR THIS PROJECT IS TENTATIVE AND FOR ESTIMATING PURPOSES ONLY. THE FINAL DESIGN WILL BE BASED ON THE RESULTS OF SAMPLES TAKEN FOR THE COMPLETED SUBGRADE. THE DEPARTMENT OF TRANSPORTATION WILL NOT BE RESPONSIBLE, NOR WILL ANY CLAIMS BE CONSIDERED AS A RESULT OF INCREASED OR DECREASED QUANTITIES OF ANY PAVEMENT STRUCTURE ITEM.

105 OMITTED

106 EARTH SLOPES FOR DESIGN OF SECONDARY OR STATE ROADS FOR TRAFFIC ESTIMATES OF 400 ADT (CURRENT) TO 3000 ADT (DESIGN PERIOD) UNLESS OTHERWISE SHOWN ON PLANS. FOR COUNTY OR MUNICIPAL PROJECTS, STANDARD SLOPES ADOPTED BY THOSE AGENCIES MAY BE USED.

HEIGHT OF CUT OR FILL (FEET)	EARTH SLOPE (HORIZONTAL TO VERTICAL RATIO) FOR TYPES OF TERRAIN		
	FLAT OR ROLLING	MODERATELY STEEP	STEEP
0 - 4	+ 6 : 1	4 : 1	4 : 1
4 - 10	4 : 1	3 : 1	+ + 2 : 1
10 - 15	3 : 1	+ + 2½ : 1	+ + 2 : 1
15 - 20	+ + 2 : 1 (MAX.)	+ + 2 : 1 (MAX.)	+ + 2 : 1 (MAX.)
OVER 20	+ + 2 : 1	+ + 1½ : 1 TO 2 : 1	+ + 1½ : 1 TO 2 : 1

\+ FRONT SLOPE IN A CUT SECTION TO BE TRANSITIONED TO 4:1 SLOPE FOR GREATER HEIGHTS ENCOUNTERED.

\+ + FLATTER SLOPES ARE DESIRABLE AND MAY BE NECESSARY FOR EROSION CONTROL BASED ON MATERIALS RECOMMENDATION.

107 EARTH SLOPES FOR DESIGN OF TWO (2) LANE HIGHWAYS (3000 ADT AND ABOVE) AND FOUR (4) LANE HIGHWAYS OTHER THAN FREEWAYS (4000 ADT AND ABOVE).

HEIGHT OF CUT (FEET)	EARTH SLOPE (HORIZONTAL TO VERTICAL RATIO)			FILL SLOPE
	CUT BACK SLOPES	CUT FRONT SLOPE	HEIGHT OF FILL (FEET)	
0 - 6	4 : 1	6 : 1	0 - 8	6 : 1
6 - 20	3 : 1	6 : 1	8 - 20	4 : 1
OVER 20	2 : 1 (MAX.) * *	6 : 1	OVER 20	3 : 1

* * WITH BENCHES FOR EROSION CONTROL, IF NECESSARY, BASED ON MATERIALS RECOMMENDATIONS. USE 3:1 BACKSLOPES IN THE LIMITS TO BE MOWED.

108 EARTH SLOPES FOR DESIGN OF FREEWAYS ONLY.

HEIGHT OF CUT (FEET)	EARTH SLOPE (HORIZONTAL TO VERTICAL RATIO)			FILL SLOPE
	CUT BACK SLOPES	CUT FRONT SLOPE	HEIGHT OF FILL (FEET)	
0 - 10	4 : 1	6 : 1	0 - 10	6 : 1
10 - 30	3 : 1	6 : 1	10 - 20	4 : 1
OVER 30	∅ 3 : 1 (2 : 1 MAX.) * *	6 : 1	OVER - 20	3 : 1

* * WITH BENCHES FOR EROSION CONTROL, IF NECESSARY, BASED ON MATERIALS RECOMMENDATIONS. USE 3:1 BACKSLOPES IN THE LIMITS TO BE MOWED.

∅ DESIRABLE WHERE TERRAIN AND SOIL CONDITIONS PERMIT

109 OMITTED

110 WHEN THE WATER SEEPAGE PLANE IS BELOW THE SUBGRADE SHOWN ON THE TYPICAL SECTION THAT WOULD WEAKEN THE STABILITY OF THE ROADBED, THE ENGINEER MAY LOWER THE DITCH GRADE TO INTERCEPT THE SEEPAGE WATER INSTEAD OF REQUIRING PIPE UNDERDRAIN. ALL ROADWAY DITCHES SHALL BE A MINIMUM OF ONE (1) FOOT DEEPER THAN THE LOWEST GRANULAR LAYER OF BASE COURSE OR SUBBASE COURSE.

111 THE USE OF DITCHES PARALLEL TO AND ALONG THE TOP OF CUT BACKSLOPES SHOULD BE USED WHERE OFF-SITE OVERLAND FLOW WOULD RUN DOWN THE CUT SLOPE. IF SUCH DITCHES ARE USED, SEE SPECIAL DRAWING No SS-654 FOR DETAILS OF CONSTRUCTION.

112 OMITTED

113 OMITTED

114 OMITTED

115 OMITTED

116 PROFILE GRADE REPRESENTS FINISHED GRADE ELEVATION ON CENTERLINE.

117 OMITTED

118 OMITTED

119 THE MATERIAL SOURCES SHOWN ON THE PLANS HAVE BEEN INVESTIGATED BY THE STATE AND ARE FURNISHED FOR THE CONTRACTOR'S CONVENIENCE TO BE USED AT HIS DISCRETION. HOWEVER, IF THESE SOURCES ARE USED, THE ENGINEER SHALL KEEP SUFFICIENT RECORDS SO THE PROPERTY OWNER CAN BE INFORMED OF THE AMOUNT OF MATERIAL REMOVED. ROYALTY PAYMENTS SHALL BE MADE BY THE CONTRACTOR DIRECTLY TO THE PROPERTY OWNER.

120 OMITTED

121 OMITTED

122 OMITTED

123 OMITTED

124 THE FOLLOWING NOTIFICATION SHALL BE MADE IN EVENT U.S. GOVERNMENT MARKERS OR STATE MARKERS ARE FOUND WITHIN CONSTRUCTION LIMITS OF A PROJECT. NOTIFICATION COVERING U.S. MARKERS SHALL BE MADE TO THE UNITED STATES DEPARTMENT OF COMMERCE, NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION OFFICE OF THE NATIONAL GEODETIC SURVEY, 1315 EAST-WEST HIGHWAY, SILVER SPRING, MARYLAND 20910-3282. NOTIFICATION COVERING STATE MARKERS SHALL BE MADE TO THE ALABAMA DEPARTMENT OF TRANSPORTATION, BUREAU OF TRANSPORTATION PLANNING, SURVEYING AND MAPPING DIVISION, 1409 COLISEUM BOULEVARD, MONTGOMERY, ALABAMA 36110.

125 OMITTED

126 THIS PROJECT IS WORKED UP USING NATIONAL GEODETIC SURVEY DATUM.

127 THIS PROJECT IS WORKED UP USING ASSUMED SURVEY DATUM.

128 (a) MAXIMUM GRADE _____%.
(b) MAXIMUM HORIZONTAL CURVATURE _____°.
(c) DESIGN SPEED _____ MPH

129 OMITTED

130 THE CONTRACTOR SHALL REMOVE DEBRIS THAT HAS BEEN LEFT AFTER REMOVAL OF BUILDINGS FROM THE RIGHT OF WAY BY OTHERS, INCLUDING CONCRETE FLOOR SLAB AS A SUBSIDARY OBLIGATION OF ITEM No. 210A, UNCLASSIFIED EXCAVATION. CONCRETE DRIVEWAYS, CONCRETE APRONS TO BUSINESS ESTABLISHMENTS USED FOR MOTOR VEHICLES TO TRAVEL ON, UNLESS OTHERWISE PROVIDED, SHALL BE CLASSIFIED AND PAID FOR UNDER THE ITEM OF REMOVAL OF CONCRETE PAVEMENT.

131 COMMERCIAL SIGNS MEASURING 16 SQUARE FEET OR LESS NOT SET UP AS STRUCTURES TO BE REMOVED SHALL BE MOVED UNDER THE ITEM OF CLEARING AND GRUBBING IN A MANNER TO CAUSE THE LEAST DAMAGE TO THEM, AND STACKED ALONG THE RIGHT-OF-WAY FOR REMOVAL AND FUTURE USE BY THE OWNER.

132 OMITTED

133 ALL UNDERGROUND UTILITY LINES TO BE INSTALLED BY THE CONTRACTOR WITHIN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE ALABAMA DEPARTMENT OF TRANSPORTATION UTILITY MANUAL.

134 OMITTED

135 OMITTED

136 FILLS SHALL BE PLACED PRIOR TO DRIVING ABUTMENT PILES. NO ROCK SHALL BE PLACED IN FILL IN AREA WHERE PILING IS TO BE DRIVEN.

137 OMITTED

138 THIS PROJECT HAS BEEN CLEARED AND GRUBBED UNDER A SEPARATE CONTRACT. SOME ADDITIONAL CLEARING WILL BE NECESSARY & THE ENTIRE RIGHT OF WAY WILL HAVE TO BE CLEARED OF DEBRIS THAT HAS FALLEN, WASHED, OR OTHERWISE ACCUMULATED ON THE RIGHT OF WAY REMOVING SAID DEBRIS SHALL BE PERFORMED AS A SUBSIDARY OBLIGATION OF ITEM No 210A, UNCLASSIFIED EXCAVATION.

139 OMITTED

139-A MAILBOXES WITHIN THE CONSTRUCTION LIMITS SHALL BE TEMPORARILY RELOCATED AND RESET IN ACCORDANCE WITH ARTICLE 104.04 OF THE STANDARD SPECIFICATIONS. PERMANENT RELOCATION OF MAILBOXES SHALL BE IN ACCORDANCE WITH SECTION 209. IF A PERMANENT MAILBOX RELOCATION IS REQUIRED BY THE PLANS AND NO SEPARATE PAY ITEM IS PROVIDED IN THE PLANS, THIS WORK SHALL BE CONSIDERED A SUBSIDIARY OBLIGATION OF OTHER ITEMS OF WORK INCLUDED IN THE CONTRACT.

140 OMITTED

141 OMITTED

142 IT IS THE INTENT OF THESE PLANS THAT THE RIGHT OF WAY FENCE SHALL BE CONSTRUCTED AS SOON AFTER THE CLEARING AND GRUBBING AS DEEMED PRACTICAL BY THE ENGINEER WHERE THE REMOVAL OF EXISTING CROSS-FENCE IS NECESSARY FOR CONSTRUCTION AND WHERE PERMANENT FENCE CANNOT BE ERECTED UNTIL A LATER DATE AND A TEMPORARY FENCE IS DEEMED NECESSARY BY THE ENGINEER, IT SHALL BE FURNISHED BY THE CONTRACTOR USING APPROPRIATE WORK ITEMS PROVIDED IN THE CONTRACT. THE CONTRACTOR SHALL ERECT AN END AND BRACE POST ASSEMBLY TO EXISTING FENCE LINES AT RIGHT OF WAY LINE TO PROTECT THE EXISTING FENCE FROM SAGGING AND FAILURE BEYOND THE RIGHT OF WAY THESE POSTS SHALL MEET SPECIFICATIONS FOR TYPE OF POSTS BID IN THE CONTRACT ERECTED ACCORDING TO THE STANDARD DRAWING AND INCLUDED IN THE PRICE BID PER LINEAR FOOT OF RIGHT OF WAY FENCE.

143 OMITTED

144 OMITTED

145 OMITTED

146 WHEN IN PLACE PIPE OR CULVERT IS TO BE EXTENDED, THE CONTRACTOR SHALL CLEAN EXISTING PIPE OR CULVERT OF DEBRIS AND SEDIMENT. IF A SEPARATE PAY ITEM IS NOT PROVIDED IN THE PLANS THIS WORK WILL BE CONSIDERED A SUBSIDIARY OBLIGATION FOR THE PRICE BID FOR THE PIPE OR CULVERT EXTENSIONS.

147 OMITTED

148 IF SUBSURFACE MATERIAL INFORMATION AND/OR SHRINK AND SWELL VALUES ARE SHOWN IN THIS PLAN ASSEMBLY, THEY REFLECT ALDOT'S INTERPRETATION OF THE BORING INFORMATION INCLUDED IN THE PLAN ASSEMBLY. THIS DATA, ALONG WITH ALL OTHER INFORMATION SHOWN ON THESE PLANS, ARE BASED UPON FIELD INVESTIGATIONS AND ARE BELIEVED TO BE INDICATIVE OF THE ACTUAL CONDITIONS. IT IS SHOWN AS INFORMATION ONLY, IS NOT GUARANTEED AND IS NOT REPRESENTED AS BEING COMPLETE. IT IS UNDERSTOOD THAT SUCH INFORMATION WAS OBTAINED AND IS INTENDED FOR ALDOT DESIGN AND ESTIMATING PURPOSES ONLY. SLOPE STUDY AND FOUNDATION REPORTS THAT HAVE BEEN PREPARED ARE AVAILABLE BY CONTACTING THE GEOTECHNICAL SECTION OF THE MATERIALS AND TESTS BUREAU AT THE CENTRAL OFFICE. SOIL SURVEY REPORTS AND ROCK CORE SAMPLES, IF TAKEN, MAY BE OBTAINED AND/OR VIEWED BY CONTACTING THE DIVISION MATERIALS ENGINEER.

IT IS THE OBLIGATION AND RESPONSIBILITY OF THE BIDDER TO MAKE HIS/HER OWN INTERPRETATION OF ALL SUBSURFACE DATA THAT MAY BE AVAILABLE AS TO THE NATURE AND EXTENT OF THE MATERIALS TO BE EXCAVATED, GRADED OR DRIVEN THROUGH. THE BIDDER SHOULD OBTAIN ANY ADDITIONAL INFORMATION AND PERFORM SUCH FIELD INVESTIGATIONS WHICH IN HIS/HER JUDGEMENT ARE NEEDED TO PRESENT A MORE COMPLETE REPRESENTATION OF THE SUBSURFACE CONDITIONS UPON WHICH TO BASE HIS/HER BID.

ALDOT WILL NOT ENTERTAIN ANY CLAIM BASED ON A DIFFERENCE IN ACTUAL SUBSURFACE MATERTIALS ENCOUNTERED.

149 OMITTED

NOTE: APPLICABLE GN-2 NOTES WILL BE REFERENCED ON THE PLANS

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REVISIONS
1. Adjusted 8 notes, Deleted 28 notes, replaced Notes 139-A and 148, and changed the drawing number to GN-2 NOTES on 08-26-08 by W.M.A.
2. Revised GN-2 Note #107 to (3000 ADT and above) changed by Cliff on 03-31-10

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

DESIGN BUREAU SPECIAL DRAWING

STANDARD DESIGN NOTES FOR PLAN ASSEMBLIES

Bureau Std Engr: L.V.S.
DRAWN BY: _____ DATE DRAWN: 01-02-89

SPECIAL DRAWING NO: GN-2 NOTES

INDEX NO: 801

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ELECTRICAL ENGINEER
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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT GENERAL NOTES

SHEET
C9.5

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10 Inverness Center Parkway, Suite 350
Hoover, AL 35242
205.526.3970 | www.ttlusa.com

Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C1 01 Notes.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

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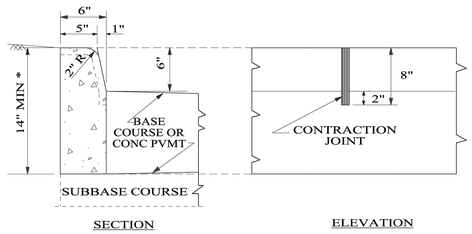
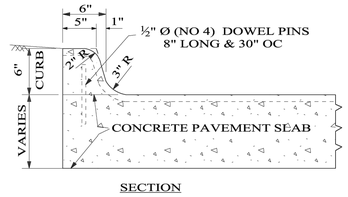
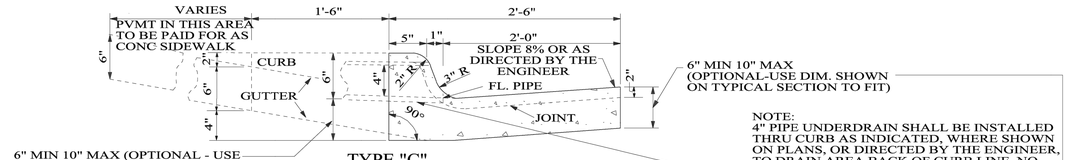


TYPE "A"
VERTICAL TYPE

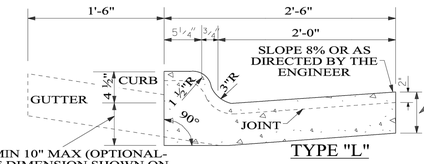


TYPE "B"
SLOPING TYPE

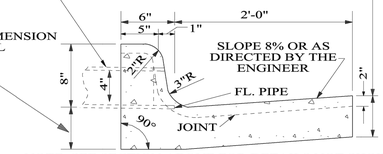


TYPE "C"
COMBINATION CURB AND GUTTER
SLOPING TYPE

NOTE:
4" PIPE UNDERDRAIN SHALL BE INSTALLED THRU CURB AS INDICATED, WHERE SHOWN ON PLANS, OR DIRECTED BY THE ENGINEER, TO DRAIN AREA BACK OF CURB LINE. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK. PIPE UNDERDRAIN USED WILL BE PAID FOR UNDER SETION 606.

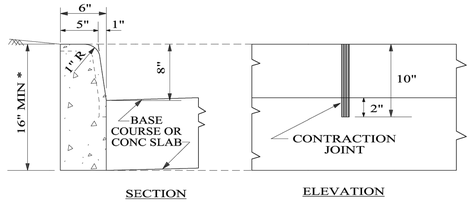


TYPE "L"
COMBINATION CURB AND GUTTER
SLOPING TYPE

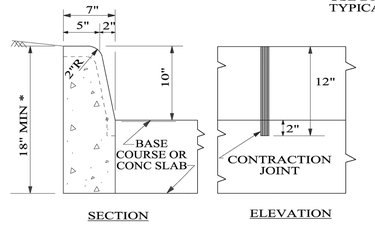


NOTE: SEE SECTION ABOVE FOR DETAILS NOT SHOWN

TYPE "K"
COMBINATION CURB AND GUTTER
VERTICAL TYPE



TYPE "D"
VERTICAL TYPE

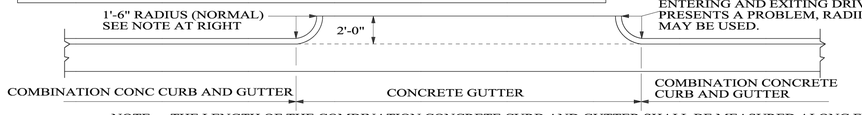


TYPE "E"
VERTICAL TYPE

TYPICAL EXPANSION JOINT AND SEALER INSTALLATION

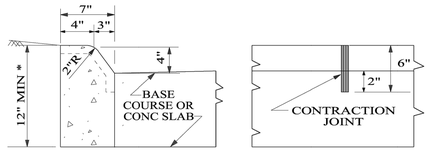
NOTE:
CURB TYPE WILL BE DESIGNATED ON THE SUMMARY OF QUANTITIES SHEET.

1'-6" RADIUS (NORMAL) ON CITY STREETS WHERE LANE ENCROACHMENT BY VEHICLES ENTERING AND EXITING DRIVEWAYS PRESENTS A PROBLEM, RADII UP TO 10' MAY BE USED.

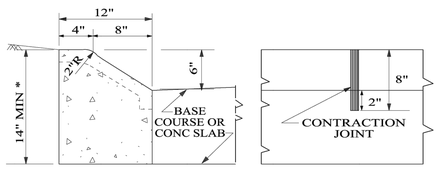


NOTE: THE LENGTH OF THE COMBINATION CONCRETE CURB AND GUTTER SHALL BE MEASURED ALONG FLOW LINE OF GUTTER. SECTION OF CONCRETE GUTTER ACROSS TURNOUTS FOR DRIVEWAYS, ETC. SHALL BE MEASURED FROM RADIUS POINT TO RADIUS POINT ALONG THE FLOW LINE OF THE GUTTER AND PRICE BID PER LINEAR FOOT SHALL INCLUDE THE RETURN CURB.

PLAN OF COMBINATION CURB AND GUTTER AT DRIVEWAYS



TYPE "F"
SLOPING TYPE

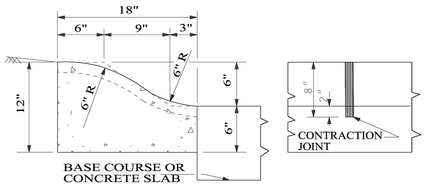


TYPE "G"
SLOPING TYPE

GENERAL NOTES FOR CURB AND CURB AND GUTTER

* 1. THE CONTRACTOR MAY BE REQUIRED TO EXCEED THE MINIMUM CURB HEIGHT SHOWN IN ORDER TO PLACE CURB ON A BASE LAYER. UP TO 4" ADDITIONAL CURB HEIGHT WILL BE INCLUDED IN THE COST OF THIS STANDARD CURB.

2. IN SUPERELEVATED SECTIONS ON THE HIGH SIDE OF THE ROADWAY, THE GUTTER SLOPE SHOULD MATCH THE SLOPE OF THE ROADWAY. WHERE FOR DRAINAGE PURPOSES IT IS NECESSARY TO KEEP THE FLOW OF WATER IN THE GUTTER, THE ROLLOVER AT THE GUTTER EDGE SHOULD NOT EXCEED 7% ALGEBRAIC DIFFERENCE IN PAVEMENT AND GUTTER SLOPE.



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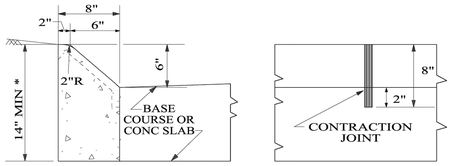
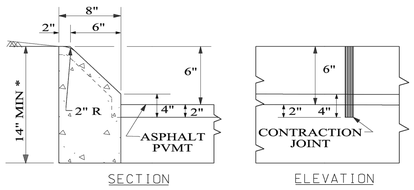
SLOPING TYPE



TYPE "J"
SLOPING TYPE



TYPE "N"
SLOPING TYPE

CURBS

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
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REVISIONS:
1. Added to CADD on 3-29-1999 by J.F.T.
2. Clarified note no. 5 as to additional curb height cost on 4-24-2002 by J.F.T.
3. Changed the words "MOUNTABLE" & "BARRIER" to "SLOPING" & "VERTICAL" on 02-14-06 by W.W.A.
4. Individually placed type of CURB & CURB & GUTTER and deleted General Notes no.'s 1-4 on 09-23-08 by W.W.A.
5. Added General Note 2 on 9/26/19 by D.J.W.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	3-31-1993
REVISED DATE:	9-26-2019

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF CONCRETE CURBS AND CONCRETE CURB & GUTTER COMBINATIONS, SLOPING AND VERTICAL TYPES

SPECIAL DRAWING NO	INDEX NO
623-XY	62307

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.6

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10 Inverness Center Parkway, Suite 350
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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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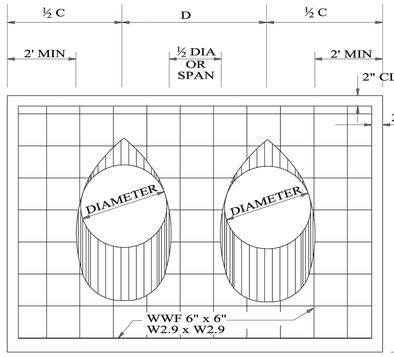
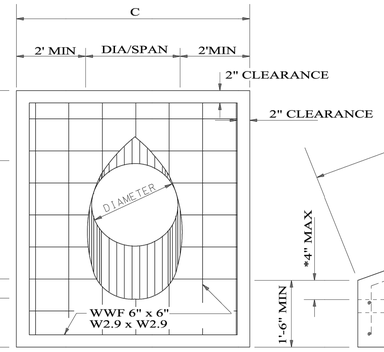
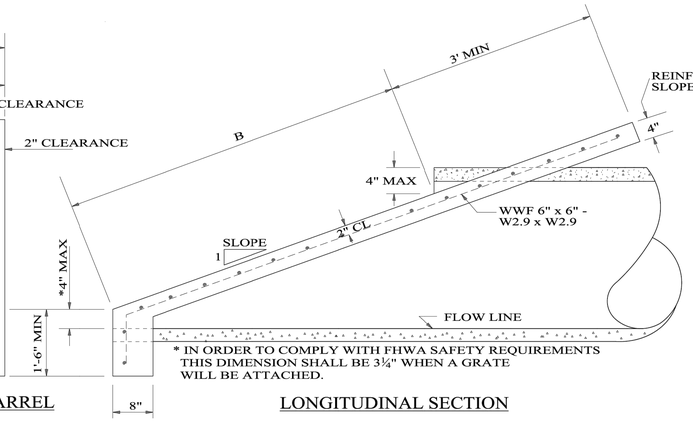


END ELEVATION DOUBLE BARREL



END ELEVATION SINGLE BARREL



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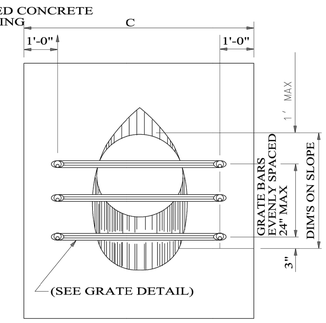
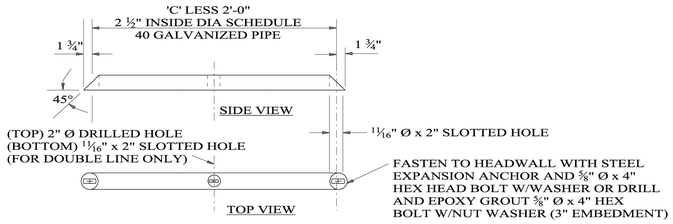
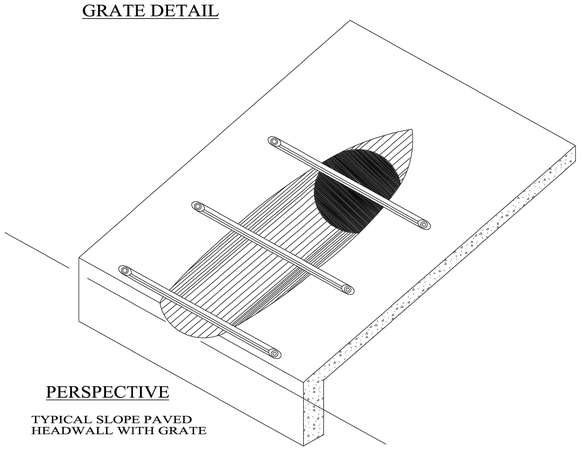


END ELEVATION WITH GRATE



GRATE DETAIL



PERSPECTIVE

TYPICAL SLOPE PAVED HEADWALL WITH GRATE

DIMENSIONS AND QUANTITIES

PIPE SIZE	AREA SQ FT	SLOPE	B	C	D	CU YDS ONE BARREL	CU YDS ADDITIONAL BARREL
15" Ø	1.2	4:1	2'-5"	5'-3"	1'-11"	0.92	0.30
18" Ø	1.8	4:1	3'-6"	5'-6"	2'-3"	1.06	0.36
24" Ø	3.1	4:1	5'-6"	6'-0"	3'-0"	1.32	0.52
30" Ø	4.9	4:1	7'-7"	6'-6"	3'-9"	1.60	0.72
36" Ø	7.1	4:1	9'-8"	7'-0"	4'-6"	1.86	0.94
42" Ø	9.6	4:1	11'-9"	7'-6"	5'-3"	2.20	1.20
48" Ø	12.6	4:1	13'-9"	8'-0"	6'-0"	2.40	1.46
54" Ø	15.9	4:1	15'-10"	8'-6"	6'-9"	2.60	1.76
15" Ø	1.2	6:1	3'-7"	5'-3"	1'-11"	1.04	0.30
18" Ø	1.8	6:1	5'-1"	5'-6"	2'-3"	1.22	0.40
24" Ø	3.1	6:1	8'-1"	6'-0"	3'-0"	1.58	0.60
30" Ø	4.9	6:1	11'-2"	6'-6"	3'-9"	1.94	0.84
36" Ø	7.1	6:1	14'-2"	7'-0"	4'-6"	2.30	1.12
42" Ø	9.6	6:1	17'-3"	7'-6"	5'-3"	2.68	1.42
48" Ø	12.6	6:1	20'-3"	8'-0"	6'-0"	3.04	1.78
54" Ø	15.9	6:1	23'-4"	8'-6"	6'-9"	3.40	2.18
15" Ø	1.2	10:1	5'-10"	5'-3"	1'-11"	1.24	0.32
18" Ø	1.8	10:1	8'-4"	5'-6"	2'-3"	1.54	0.46
24" Ø	3.1	10:1	13'-5"	6'-0"	3'-0"	2.08	0.72
30" Ø	4.9	10:1	18'-5"	6'-6"	3'-9"	2.66	1.06
36" Ø	7.1	10:1	23'-5"	7'-0"	4'-6"	3.20	1.46
42" Ø	9.6	10:1	28'-6"	7'-6"	5'-3"	3.78	1.90
48" Ø	12.6	10:1	33'-6"	8'-0"	6'-0"	4.32	2.42
54" Ø	15.9	10:1	38'-6"	8'-6"	6'-9"	4.88	3.02
15" Ø	1.2	20:1	11'-9"	5'-3"	1'-11"	1.84	0.42
18" Ø	1.8	20:1	16'-8"	5'-6"	2'-3"	2.40	0.62
24" Ø	3.1	20:1	26'-8"	6'-0"	3'-0"	3.38	1.06

GENERAL NOTES

1. THE FILL IS TO BE PLACED AND ALL SHORING REMOVED BEFORE THE SLOPE PAVING IS PLACED.
2. QUANTITIES SHOWN INCLUDE TWO (2) SLOPE PAVED HEADWALLS WITH TOE WALLS.
3. DIMENSIONS AND QUANTITIES SHOWN APPLIES TO CONCRETE, CORRUGATED METAL PIPE, AND CORRUGATED HDPE PIPE. CONCRETE QUANTITIES ARE SUFFICIENT WHEN HEADWALLS FOR ARCH PIPE IS DESIRABLE.
4. CONCRETE PIPE SHALL BE BEVELED BY SAWING AFTER SLOPE PAVING HAS BEEN PLACED AND SUFFICIENTLY CURED (SOME HAND FINISHING MAY BE NECESSARY.) METAL PIPE SHALL BE SHOP CUT. CORRUGATED HDPE PIPE MAY BE FIELD BEVELED PRIOR TO PAVING OR SHOP CUT.
5. CONTRACTOR SHALL INSURE THROUGH MECHANICAL MEANS OR OTHER APPROVED DEVICES THAT CONNECTION BETWEEN BEVELED PIPE END AND CONCRETE WILL NOT BE DETACHED. CORRUGATED HDPE PIPE SHALL HAVE ½" Ø x 6" GALVANIZED HOOK BOLTS WITH WASHERS LOCATED AT 30° OC FOR THE TOE AND ½" Ø x 6" GALVANIZED THREADED HEX HEAD BOLTS WITH WASHERS LOCATED ON 2'-0" CENTERS FOR SIDES. ANCHOR BOLTS INTO CONCRETE.
6. SLOPE PAVED HEADWALL WITHOUT GRATE SHALL BE CLASS 1. SLOPE PAVED HEADWALL WITH GRATE SHALL BE CLASS 2.
7. A 24" PIPE WITH GREATER THAN A 30° SKEW AND 30" OR GREATER IN DIAMETER SHALL HAVE A CLASS 2 END TREATMENT WHEN TERMINATED WITHIN THE CLEAR ZONE.
8. PIPE FOR GRATE SHALL BE SCHEDULE 40, GALVANIZED (ASTM A53) HARDWARE SHALL BE GALVANIZED ACCORDING TO SPECIFICATIONS.
9. RAW METAL EXPOSED BY CUTTING AND DRILLING OF PIPE FOR GRATE ASSEMBLY WILL REQUIRE A GALVANIZING REPAIR PAINT IN ACCORDANCE WITH SECTION 855.31 OF ALDOT SPECIFICATIONS.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
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REVISIONS:
1. Changed notes 3, 4, & 5 to allow the use of HDPE pipe on 9-12-1997 by C.J.S.
2. Adjusted Note No. 7 requiring use of Grate on 1-2-2009 by W.W.A.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2-8-1991
REVISED DATE: 1-2-2009

DESIGN BUREAU SPECIAL DRAWING
CONCRETE SLOPE PAVED HEADWALL AND GRATE FOR SIDEDRAIN PIPE

SPECIAL DRAWING NO: HW-614-SP

INDEX NO: 61913

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.7

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Drawn By: J S | Checked By: T R
Date: 03/28/25 | Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

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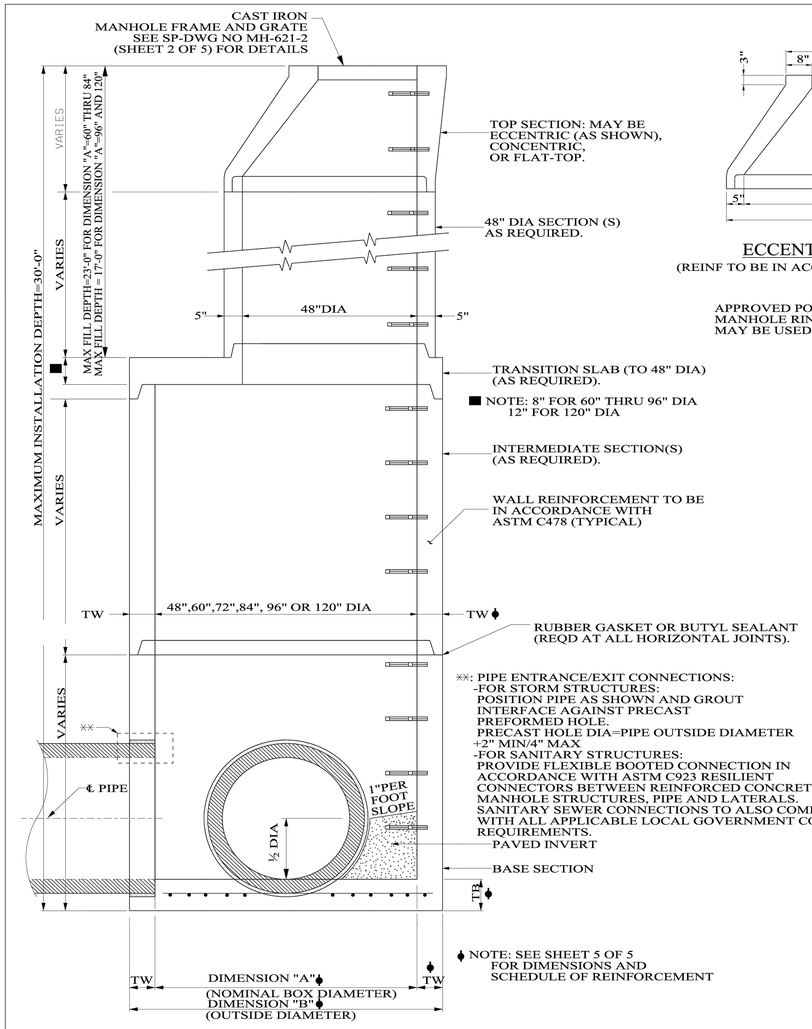
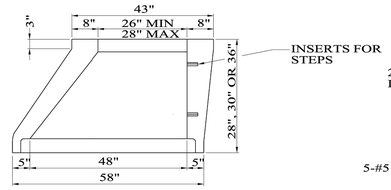


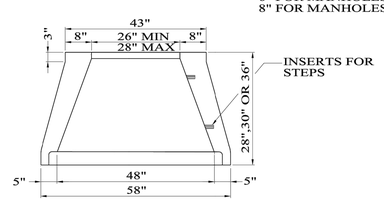
TYPICAL SECTION:PRECAST MANHOLE INSTALLATION



ECCENTRIC CONE

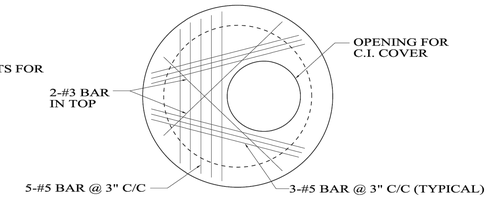
(REINF TO BE IN ACCORDANCE W/ASTM C478)

APPROVED POLYMER
MANHOLE RING & FRAME
MAY BE USED



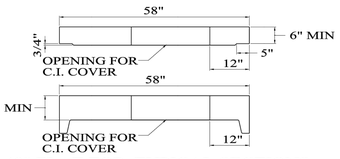
CONCENTRIC CONE

(REINF TO BE IN ACCORDANCE W/ASTM C478)



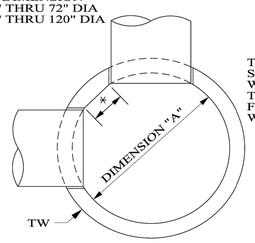
48" FLAT TOP PLAN

NOTE:
PLACE REINFORCEMENT STEEL AT 1"
CLEARANCE TO BOTTOM OF SLAB.



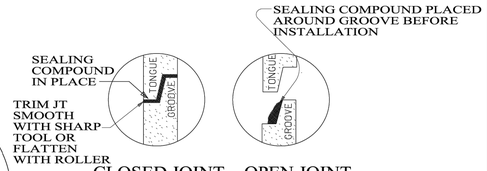
48" FLAT TOP: TYPICAL SECTIONS

✳: INDICATES MINIMUM DIMENSION=
6" FOR MANHOLES 48" THRU 72" DIA
8" FOR MANHOLES 84" THRU 120" DIA



PRECAST MANHOLE: HORIZONTAL SECTION

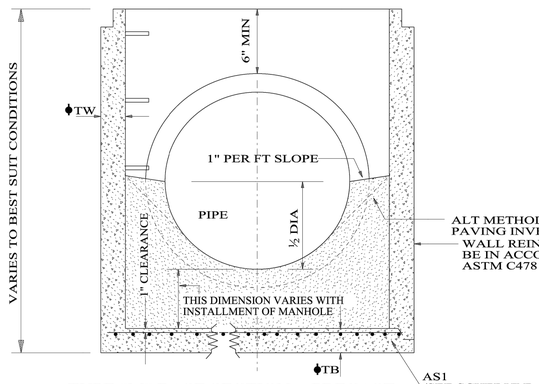
(SHOWING REQD MIN WALL STRIP)



CLOSED JOINT OPEN JOINT

METHOD OF SEALING JOINTS

RUBBER GASKETS OR OTHER TYPES OF JOINT SEALERS WITH PROVEN SATISFACTORY PERFORMANCE RECORD WILL BE CONSIDERED FOR APPROVAL BY THE ALABAMA DEPARTMENT OF TRANSPORTATION.



TYPE "M" BASE SECTION - PRECAST

GENERAL NOTES

1. ALL CIRCULAR UNITS ARE TO BE IN ACCORDANCE WITH ASTM C478, EXCEPT THAT MINIMUM WALL THICKNESS TO BE 5".
2. SEE TYPICAL SECTION FOR MAXIMUM INSTALLATION DEPTH.
3. MINIMUM 28 DAY CONCRETE COMPRESSIVE STRENGTH: 4000 P.S.I.
4. REINFORCING STEEL: TO BE IN ACCORDANCE WITH THE MINIMUM YIELD STRENGTH= 60 K.S.I.
5. SIZING AND LOCATION OF LIFTING DEVICES SHALL BE THE RESPONSIBILITY OF THE FABRICATOR IN ORDER TO ASSURE SAFETY AND BALANCED HANDLING DURING THE TRANSPORTATION AND INSTALLATION OF THE JUNCTION BOX. IF LIFTING HOLES PASS COMPLETELY THROUGH WALL OR SLAB, HOLES SHALL BE SEALED BY FILLING WITH MORTAR AFTER INSTALLATION.
6. INVERT CHANNELS ARE REQUIRED IN THE BASE. CHANNELS MAY BE FORMED IN CONCRETE OR CONSTRUCTED LATER USING A CEMENT CONCRETE MORTAR. CHANGES IN DIRECTION OF FLOW SHALL HAVE A TRUE CURVE OF AS LARGE A RADIUS AS SIZE WILL PERMIT AND BE FINISHED UP TO THE CENTER OF PIPE.
7. ALL PIPE OPENINGS IN PRECAST UNITS SHALL BE PREFORMED OR CORED.
8. SEE SPECIAL DRAWING NO. MH-621-2 (SHEETS 2 AND 5) FOR ADDITIONAL DETAILS.
9. STANDARD MANHOLE BASE UNIT SHALL BE LIMITED TO 6'-0" MEASURED FROM THE TOP OF THE BOTTOM SLAB TO THE TOP OF COVER. GREATER HEIGHTS TO BE MEASURED IN 2'-0" INCREMENT AND/OR FRACTION THEREOF AND WILL BE PAID AS MANHOLE UNIT(s). SEE ALDOT STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION; 621.04 (b) & (c).SPECIFICATIONS.

TYPE "M" MANHOLE

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

DETAILS OF PRECAST CONCRETE MANHOLE

NOTE:
THE ABOVE DRAWINGS COVERING PRECAST CONCRETE MANHOLES WERE MADE IN ORDER TO SHOW TYPICAL ACCEPTABLE REQUIREMENTS FOR PRECAST CONCRETE MANHOLES. ALTHOUGH JOINT SHAPES AND OTHER DETAILS ARE SHOWN ON THE DRAWING, OTHER APPROVED JOINT SHAPES AND DETAILS WILL BE ACCEPTABLE, PROVIDED THEY MEET REQUIREMENTS OF THE ALABAMA DEPARTMENT OF TRANSPORTATION. FOR SEALING MANHOLES AGAINST WATER LEAKAGE, ALL RUBBER AND PLASTIC TYPE GASKETS, AND OTHER TYPE SEALERS SHALL BE APPROVED BY THE MATERIALS BUREAU OF THE ALABAMA DEPARTMENT OF TRANSPORTATION BEFORE THEY MAY BE USED.

THE HEIGHT OF PRECAST CONCRETE UNITS SHALL BE SELECTED IN SUCH MANNER THAT DISTANCE FROM FLOW LINE OF PIPE TO FINISHED GRADE (TOP OF MANHOLE COVER) WILL BE EXACT DISTANCE REQUIRED ACCORDING TO PLANS. IF ANY ADJUSTMENT IS REQD OF NOT GREATER THAN (8") EIGHT INCHES THIS LIFT MAY BE MADE WITH MANHOLE BRICK LAID IN CEMENT MORTAR. SEE SHEET 5 OF 5 FOR ADJUSTMENT DETAIL.

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REVISIONS:
1. Adjusted Note No. 7, changed Note under 48" Flat Top Sketch, corrected Cored Angle and adjusted drawing description on 6-5-2008 by W.W.A.
2. Added General Note No. 9; added diameter size to 120" & clarified the rebars at the base of the manhole on 7-6-2009 by W.W.A.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	8-20-2007
REVISED DATE:	7-6-2009

DESIGN BUREAU SPECIAL DRAWING

DETAILS OF PRECAST
CONCRETE MANHOLE (TYPE M)
FOR 6" - 72" PIPE

SPECIAL DRAWING NO	INDEX NO
MH-621-2 (SHEET 4 OF 5)	62186

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JOB NO.
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DESCRIPTION:
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SHEET
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Drawn By: J S	Checked By: T R
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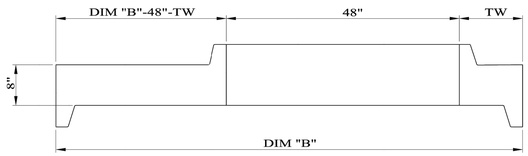
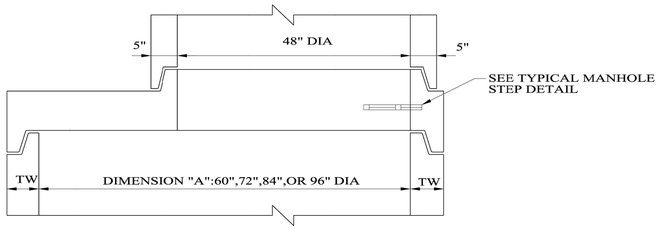
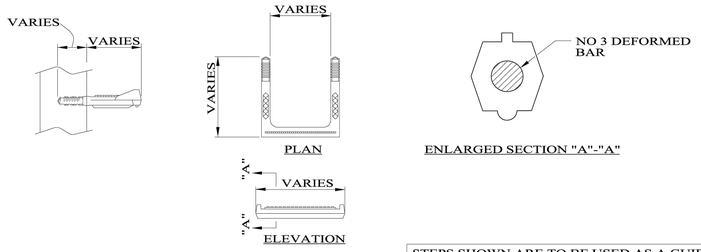


TYPICAL TRANSITION SECTION TO 48" DIA.



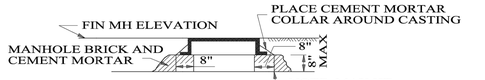
MANHOLE TRANSITION TO 48" DIA. ASSEMBLY



STEPS SHOWN ARE TO BE USED AS A GUIDE. OTHER TYPES MAY BE USED IF APPROVED.

POLYPROPYLENE STEPS

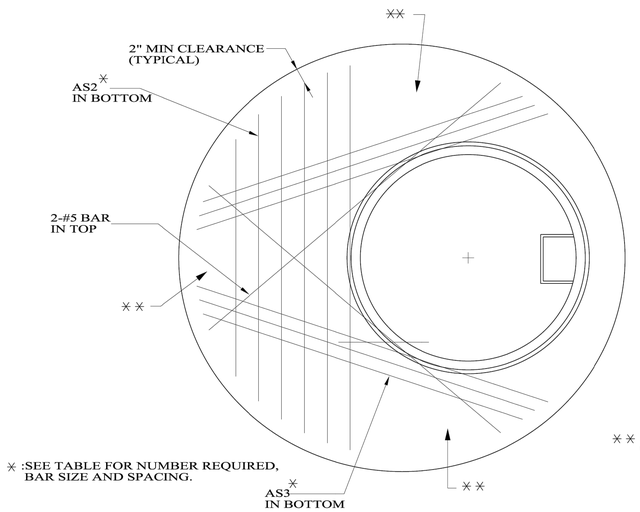
FOOTNOTES:
1. STEPS SHALL BE PLACED IN WET CONCRETE AT THE TIME OF MANUFACTURE OR MORTARED INTO HOLES AFTER CONCRETE HAS SET.
2. DIMENSIONS WILL VARY ACCORDING TO SPECIFIC APPLICATIONS.
3. ALL MANHOLE STEPS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-199, SECTION 16.



NOTE: MAX HT ADJUSTMENT WITH BRICK = 8"

NOTE: WHEN FOUND NECESSARY ON CONSTRUCTION TO ADJUST TOP OF MANHOLE COVER TO MEET FINISH MANHOLE COVER ELEVATION THE NECESSARY LIFT MAY BE MADE WITH MANHOLE BRICK AND CEMENT MORTAR.

MANHOLE HEIGHT ADJUSTMENT



TYPICAL TRANSITION TO 48" SECTION LAYOUT

NOTE: PLACE REINFORCING STEEL AT 1" CLEARANCE TO BOTTOM OF SLAB.

NOTE: SEE "TYPICAL SECTION.." ON DRAWING NO MH-621-2 (4 OF 5), FOR LOCATION OF DIMENSIONS "TW" AND "TB"

DIMENSIONS		MAX PIPE INSIDE DIA FOR ■■ 90° OR 180° INTERSECTION ANGLE		THICKNESS		REQD REINF IN BASE OR TRANS.SECT.		
"A"	"B"	90°	180°	TW	TB	AS1	AS2	AS3
4'-0"	4'-10"	18"	30"	5"	6"	#5@8"	———	———
5'-0"	6'-0"	24"	42"	6"	8"	#5@8"	4-#6@3"	3-#6@3"
6'-0"	7'-2"	30"	48"	7"	8"	#6@6"	6-#6@3"	3-#6@3"
7'-0"	8'-4"	36"	60"	8"	8"	#6@6"	7-#6@3"	5-#6@3"
8'-0"	9'-6"	42"	66"	9"	8"	#6@4"	7-#6@3"	7-#6@3"

NOTE: WALL REINFORCEMENT TO BE IN ACCORDANCE WITH ASTM C478.

■■: MAXIMUM ENTRANCE/EXIT PIPE SIZES NOT SPECIFICALLY INDICATED IN TABLE SHALL BE CONTROLLED BY THE MINIMUM WALL STRIP BETWEEN INTERSECTING PIPE. SEE HORIZONTAL SECTION FOR ADDITIONAL INFORMATION.

TABLE OF DIMENSIONS AND SCHEDULE OF REINFORCING STEEL

NOTES:
1. WALL AND SLAB THICKNESSES DENOTED ARE MINIMUM VALUES AND MAY BE INCREASED AT THE DISCRETION OF THE PRECAST MANUFACTURER.
2. WELDED WIRE REINFORCEMENT PROVIDING EQUIVALENT AREAS OF STEEL TO THOSE DENOTED ABOVE MAY BE SUBSTITUTED FOR REINFORCING BARS. WELDED WIRE REINFORCEMENT SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS.

✳✳ NOTE: PROVIDE A MINIMUM AREA OF REINFORCEMENT OF 0.31 SQUARE INCHES PER FOOT EACH WAY WHERE THE REINFORCEMENT INDICATED IN THIS DETAIL PROVIDES LESS THAN THAT AMOUNT.

TYPE "M" MANHOLE

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS:
1. Changed (**) Note, changed sizes in Table Dimensions and adjusted drawing description on 6-5-2008 by W.W.A.
2. Re-inserted AS1 table on 4-30-2012 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 8-20-2007
REVISED DATE: 4-30-2012

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF PRECAST CONCRETE MANHOLE (TYPE M) FOR 6" - 72" PIPE

SPECIAL DRAWING NO: MH-621-2 (SHEET 5 OF 5)

INDEX NO: 62187

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Attn: Jeremy Deal

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256-820-9897
Attn: Randy Whorton

ELECTRICAL ENGINEER
Hays Cheatwood Consulting
P.O. Box 250
Pinson, AL 35126
205-942-0696
Attn: Tony Dodd

ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.9

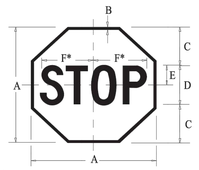
TTL
10 Inverness Center Parkway, Suite 350
Hoover, AL 35242
205.526.3970 | www.ttlusa.com

Drawn By: J S | Checked By: T R
Date: 03/28/25 | Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

LEGEND



* REDUCE CHARACTER SPACING 40%

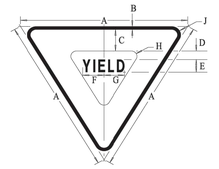
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F
SHARED USE PATH	18	.375	6	6C	3	7.75
CONVENTIONAL SINGLE LANE	36	.875	12	12C	6	15
CONVENTIONAL MULTI LANE	36	.875	12	12C	6	15
EXPWY	36	.875	12	12C	6	15
FREEWAY	—	—	—	—	—	—
MINIMUM	30	.75	10	10C	.5	12.5
OVERSIZED	48	1.25	16	16C	8	20

SIGN DESIGNATION: R1-1 (B)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER WHITE; BACKGROUND RED

PAY QUANTITY SQUARE FEET	SHARED USE PATH	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	1.86	7.46	7.46	7.46	—	5.18	13.25



SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G	H	J
SHARED USE PATH	18	.375	2	1	1.5C	2.375	2.188	.625	1.5
CONVENTIONAL SINGLE LANE	36	.75	5	2	3C	4.688	4.375	1.25	2
CONVENTIONAL MULTI LANE	48	1	6	2.75	4C	6.25	5.875	2	3
EXPWY	48	1	6	2.75	4C	6.25	5.875	2	3
FREEWAY	60	1.5	8	3.5	5C	7.875	7.25	2.5	4
MINIMUM	30	.625	4	1.75	2.5C	3.938	3.625	.875	1.5
OVERSIZED	—	—	—	—	—	—	—	—	—

SIGN DESIGNATION: R1-2 (B)

REFLECTORIZATION: LEGEND, BORDER (REFL.); BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER RED; BACKGROUND WHITE

PAY QUANTITY SQUARE FEET	SHARED USE PATH	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	0.98	3.90	6.93	6.93	10.83	2.71	—

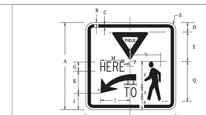
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	18	6	.5	1.5	3C	7	1.5
CONVENTIONAL MULTI LANE	18	6	.5	1.5	3C	7	1.5
EXPWY	—	—	—	—	—	—	—
FREEWAY	—	—	—	—	—	—	—
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	30	12	.75	3	6C	13.25	1.875

SIGN DESIGNATION: R1-3P (B)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- WHITE; BACKGROUND --- RED

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	0.75	—	—	—	—	2.50



NOTE: YIELD DIRECTION MAY BE LEFT OR RIGHT
● SEE NOTE BELOW
* SEE R1-2 FOR DETAIL
** SEE R10-6a FOR DETAIL

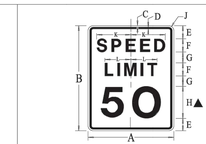
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G	H	J
CONVENTIONAL SINGLE LANE	—	—	—	—	—	—	—	—	—
CONVENTIONAL MULTI LANE	36	.625	.875	3.25	14	10	4C	4.75	6
EXPWY	—	—	—	—	—	—	—	—	—
FREEWAY	—	—	—	—	—	—	—	—	—
MINIMUM	—	—	—	—	—	—	—	—	—
OVERSIZED	36	.625	.875	3.25	14	10	4C	4.75	6
	K	M	N	P	Q	R	S	T	
CONVENTIONAL SINGLE LANE	—	—	—	—	—	—	—	—	—
CONVENTIONAL MULTI LANE	8.75	10.78	13.21	2.48	15.61	2.44	2.25	13.21	
EXPWY	—	—	—	—	—	—	—	—	—
FREEWAY	—	—	—	—	—	—	—	—	—
MINIMUM	—	—	—	—	—	—	—	—	—
OVERSIZED	8.75	10.78	13.21	2.48	15.61	2.44	2.25	13.21	

SIGN DESIGNATION: R1-5 (B)

REFLECTORIZATION: LEGEND, BORDER, PED. SYMBOL; BACKGROUND (REFL.); YIELD SYMBOL (REFL.)

SIGN COLORS: LEGEND, BORDER, PED. SYMBOL BLACK; BACKGROUND WHITE; YIELD SYMBOL RED

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	—	9.00	—	—	—	9.00



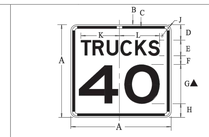
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	30	.375	.625	4	4E	2
CONVENTIONAL MULTI LANE	30	36	.5	.75	4.5	5E	2.5
EXPWY	36	48	.625	.875	6	6E	5
FREEWAY	48	60	.75	1.25	8	8E	6
MINIMUM	18	24	.375	.625	3	3E	2
OVERSIZED	30	36	.5	.75	4.5	5E	2.5
	H	J	K	L			
CONVENTIONAL SINGLE LANE	10E	1.5	9.403	7.321			
CONVENTIONAL MULTI LANE	12E	1.875	11.754	9.151			
EXPWY	14E	2.25	14.105	10.981			
FREEWAY	16E	3	18.806	14.642			
MINIMUM	8E	1.5	7.052	5.491			
OVERSIZED	12E	1.875	11.754	9.151			

SIGN DESIGNATION: R2-1 (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	5.00	7.50	12.00	20.00	3.00	7.50



* REDUCE SPACING 32%

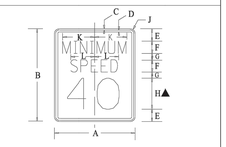
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	.375	.625	4	4D	2.5	10E
CONVENTIONAL MULTI LANE	24	.375	.625	4	4D	2.5	10E
EXPWY	36	.625	.875	6	6D	4	14E
FREEWAY	48	.75	1.25	8	8D	8	16E
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	.625	.875	6	6D	4	14E
	H	J	K	L			
CONVENTIONAL SINGLE LANE	3.5	1.5	9.563	9.188			
CONVENTIONAL MULTI LANE	3.5	1.5	9.563	9.188			
EXPWY	6	2.25	14.313	13.813			
FREEWAY	8	3	19.125	18.375			
MINIMUM	—	—	—	—			
OVERSIZED	6	2.25	14.313	13.813			

SIGN DESIGNATION: R2-2P (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	4.00	4.00	9.00	16.00	—	9.00



SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	30	.375	.625	4	4C	2
CONVENTIONAL MULTI LANE	24	30	.375	.625	4	4C	2
EXPWY	36	48	.625	.875	6	6C	5
FREEWAY	48	60	.75	1.25	8	8C	6
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	48	.625	.875	6	6C	5
	H	J	K	L			
CONVENTIONAL SINGLE LANE	10D	1.5	9.188	6.813			
CONVENTIONAL MULTI LANE	10D	1.5	9.188	6.813			
EXPWY	14D	2.25	13.75	10.188			
FREEWAY	16D	3	18.375	13.625			
MINIMUM	—	—	—	—			
OVERSIZED	14D	2.25	13.75	10.188			

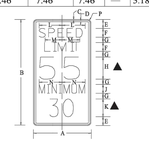
SIGN DESIGNATION: R2-4P (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	5.00	5.00	12.00	20.00	—	12.00

LEGEND



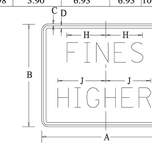
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	48	.375	.625	4	4E	2.5
CONVENTIONAL MULTI LANE	24	48	.375	.625	4	4E	2.5
EXPWY	36	72	.625	.875	6	6E	4
FREEWAY	48	96	.75	1.25	8	8E	6.5
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	72	.625	.875	6	6E	4
	H	J	K	L	M	N	P
CONVENTIONAL SINGLE LANE	10E	4C	8D	9.625	7.313	9.188	1.5
CONVENTIONAL MULTI LANE	10E	4C	8D	9.625	7.313	9.188	1.5
EXPWY	14E	6C	12D	14.375	11	13.75	2.25
FREEWAY	16E	8C	14D	19.25	14.625	18.375	3
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	14E	6C	12D	14.375	11	13.75	2.25

SIGN DESIGNATION: R2-4a (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER BLACK; BACKGROUND WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	8.00	8.00	18.00	32.00	—	18.00



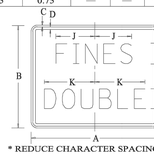
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	18	.375	.625	3.5	4D	3
CONVENTIONAL MULTI LANE	24	18	.375	.625	3.5	4D	3
EXPWY	36	24	.375	.625	4.125	6D	3.75
FREEWAY	48	36	.625	.875	7	8D	6
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	24	.375	.625	4.125	6D	3.75
	H	J	K	L			
CONVENTIONAL SINGLE LANE	6.984	9.187	1.5				
CONVENTIONAL MULTI LANE	6.984	9.187	1.5				
EXPWY	10.476	13.78	1.5				
FREEWAY	13.968	18.373	2.25				
MINIMUM	—	—	—				
OVERSIZED	10.476	13.78	1.5				

SIGN DESIGNATION: R2-6P (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER BLACK; BACKGROUND WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	3.00	3.00	6.00	12.00	—	6.00



* REDUCE CHARACTER SPACING 20%

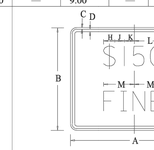
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	18	.375	.625	3.5	4D	3
CONVENTIONAL MULTI LANE	24	18	.375	.625	3.5	4D	3
EXPWY	36	24	.375	.625	4.125	6D	3.75
FREEWAY	48	36	.625	.875	7	8D	6
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	24	.375	.625	4.125	6D	3.75
	H	J	K	L			
CONVENTIONAL SINGLE LANE	4D	6.984	9.555	1.5			
CONVENTIONAL MULTI LANE	4D	6.984	9.555	1.5			
EXPWY	6D	10.476	14.332	1.5			
FREEWAY	8D	13.968	19.109	2.25			
MINIMUM	—	—	—	—			
OVERSIZED	6D	10.476	14.332	1.5			

SIGN DESIGNATION: R2-6aP (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	3.00	3.00	6.00	12.00	—	6.00



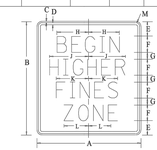
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	18	.375	.625	3.5	4D	3
CONVENTIONAL MULTI LANE	24	18	.375	.625	3.5	4D	3
EXPWY	36	24	.375	.625	4.125	6D	3.75
FREEWAY	48	36	.625	.875	7	8D	6
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	24	.375	.625	4.125	6D	3.75
	H	J	K	L	M	N	
CONVENTIONAL SINGLE LANE	2.723	1	2.261	5.984	5.423	1.5	
CONVENTIONAL MULTI LANE	2.723	1	2.261	5.984	5.423	1.5	
EXPWY	4.085	1.5	3.392	8.976	8.134	1.5	
FREEWAY	5.446	2	4.522	11.968	10.845	2.25	
MINIMUM	—	—	—	—	—	—	
OVERSIZED	4.085	1.5	3.392	8.976	8.134	1.5	

SIGN DESIGNATION: R2-6bP (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER BLACK; BACKGROUND WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	3.00	3.00	6.00	12.00	—	6.00



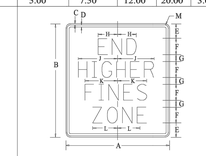
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	30	.375	.625	3.25	4D	2.5
CONVENTIONAL MULTI LANE	24	30	.375	.625	3.25	4D	2.5
EXPWY	36	48	.625	.875	6	6D	4
FREEWAY	48	60	.75	1.25	6.5	8D	5
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	48	.625	.875	6	6D	4
	H	J	K	L	M		
CONVENTIONAL SINGLE LANE	7.205	9.187	6.984	6.605	1.5		
CONVENTIONAL MULTI LANE	7.205	9.187	6.984	6.605	1.5		
EXPWY	10.808	13.78	10.476	9.907	2.25		
FREEWAY	14.410	18.373	13.968	13.209	3		
MINIMUM	—	—	—	—	—		
OVERSIZED	10.808	13.78	10.476	9.907	2.25		

SIGN DESIGNATION: R2-10 (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER BLACK; BACKGROUND WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	5.00	5.00	12.00	20.00	—	12.00



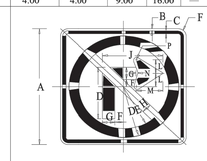
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	30	.375	.625	3.25	4D	2.5
CONVENTIONAL MULTI LANE	24	30	.375	.625	3.25	4D	2.5
EXPWY	36	48	.625	.875	6	6D	4
FREEWAY	48	60	.75	1.25	6.5	8D	5
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	36	48	.625	.875	6	6D	4
	H	J	K	L	M		
CONVENTIONAL SINGLE LANE	4.784	9.187	6.984	6.605	1.5		
CONVENTIONAL MULTI LANE	4.784	9.187	6.984	6.605	1.5		
EXPWY	7.176	13.78	10.476	9.907	2.25		
FREEWAY	9.567	18.373	13.968	13.209	3		
MINIMUM	—	—	—	—	—		
OVERSIZED	7.176	13.78	10.476	9.907	2.25		

SIGN DESIGNATION: R2-11 (A)

REFLECTORIZATION: LEGEND, BORDER; BACKGROUND (REFL.)

SIGN COLORS: LEGEND, BORDER --- BLACK; BACKGROUND --- WHITE

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	5.00	5.00	12.00	20.00	—	12.00



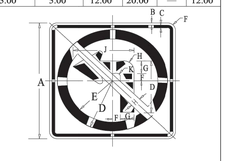
SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	.375	.625	10.5	8.5	1.5	2.5
CONVENTIONAL MULTI LANE	36	.625	.875	15.75	12.75	2.25	3.75
EXPWY	36	.625	.875	15.75	12.75	2.25	3.75
FREEWAY	—	—	—	—	—	—	—
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	48	.75	1.25	21	17	3	5
	H	J	K	L	M	N	P
CONVENTIONAL SINGLE LANE	2	11.5	2.875	5.063	.375	.5	
CONVENTIONAL MULTI LANE	3	17.25	4.313	7.625	.563	.75	
EXPWY	3	17.25	4.313	7.625	.563	.75	
FREEWAY	—	—	—	—	—	—	
MINIMUM	—	—	—	—	—	—	
OVERSIZED	4	23	5.75	10.125	.75	1	

SIGN DESIGNATION: R3-1 (B)

REFLECTORIZATION: ARROW, BORDER; BACKGROUND (REFL.); PROHIBITION SYMBOL (REFL.)

SIGN COLORS: ARROW, BORDER --- BLACK; BACKGROUND --- WHITE; PROHIBITION SYMBOL --- RED

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	4.00	9.00	9.00	—	—	16.00



SIGN	DIMENSIONS (INCHES) A	B	C	D	E	F	G
CONVENTIONAL SINGLE LANE	24	.375	.625	10.5	8.5	1.5	2.5
CONVENTIONAL MULTI LANE	36	.625	.875	15.75	12.75	2.25	3.75
EXPWY	36	.625	.875	15.75	12.75	2.25	3.75
FREEWAY	—	—	—	—	—	—	—
MINIMUM	—	—	—	—	—	—	—
OVERSIZED	48	.75	1.25	21	17	3	5
	H	J	K				
CONVENTIONAL SINGLE LANE	2	11.5	.5				
CONVENTIONAL MULTI LANE	3	17.25	.75				
EXPWY	3	17.25	.75				
FREEWAY	—	—	—				
MINIMUM	—	—	—				
OVERSIZED	4	23	1				

SIGN DESIGNATION: R3-2 (B)

REFLECTORIZATION: ARROW, BORDER; BACKGROUND (REFL.); PROHIBITION SYMBOL (REFL.)

SIGN COLORS: ARROW, BORDER --- BLACK; BACKGROUND --- WHITE; PROHIBITION SYMBOL --- RED

PAY QUANTITY SQUARE FEET	CONVENTIONAL ROAD SINGLE LANE	MULTI-LANE	EXPWY	FRWY	MIN	OVRSZ
	4.00	9.00	9.00	—	—	16.00

* LETTER SPACING TO BE INCREASED OR DECREASED AS NECESSARY TO CONFORM TO DIMENSIONS INDICATED.

(A) THIS SIGN SHALL BE FABRICATED USING RETROREFLECTIVE SHEETING TYPE "IV"

(B) THIS SIGN SHALL BE FABRICATED USING RETROREFLECTIVE SHEETING TYPE "XI"

(C) THIS SIGN SHALL BE FABRICATED USING RETROREFLECTIVE SHEETING TYPE "XI", FLUORESCENT

● NOTE: SYMBOL DESIGN AVAILABLE ON REQUEST

▲ NOTE: OPTICALLY SPACE NUMERALS ABOUT VERTICAL ℄

THE SIZES SHOWN IN THE MINIMUM ROWS THAT ARE SMALLER THAN THE SIZES SHOWN IN THE CONVENTIONAL ROAD ROWS SHALL ONLY BE USED ON LOW-SPEED ROADWAYS, ALLEYS AND PRIVATE ROADS OPEN TO PUBLIC TRAVEL WHERE THE REDUCED LEGEND SIZE WOULD BE ADEQUATE FOR THE REGULATION OR WARNING OR WHERE PHYSCAL CONDITIONS PERCLUDE THE USE OF LARGE SIZES.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Updated to MUTCD 2009, Added and Rearranged Signs on 9-11-2018 by J.F.T.
2. Removed R1-5b sign on 8-12-2019 by J.F.T.
3. Corrected the pay quantity for the R1-1. Corrected the legend, border, and background colors for the R1-2 on 5-26-2020 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 12-9-1987
REVISED DATE: 5-26-2020

DESIGN BUREAU SPECIAL DRAWING: STANDARD HIGHWAY SIGNS

SPECIAL DRAWING NO: SHS-1

INDEX NO: 71060

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Attn: Randy Whorton

ELECTRICAL ENGINEER
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ISSUE:
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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.10

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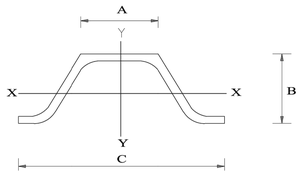
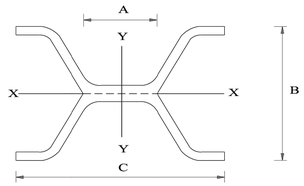
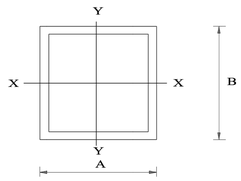
Drawn By: J S | Checked By: T R
Date: 03/28/25 | Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg

3/21/2024 11:29:03 AM

ALLOWABLE SIGN AREA (FT^2) PER SINGLE POST*

*TO INCREASE CAPACITY, INSERT A 2 ¼", 12 GUAGE TUBE INTO A 2 ½" 14 GUAGE TUBE AND USE A MULTIPLIER OF 1.8 TO INCREASE SQUARE FOOTAGE OF SIGN PER POST

SIGN CENTROID	2 ½" X 12 GAGE (PERFORATED)
16.5'	15.1
16'	15.57
15.5'	16.07
15'	16.61
14.5'	17.18
14'	17.79
13.5'	18.45
13'	19.16
12.5'	19.93
12'	20.76
11.5'	21.66
11'	22.64
10.5'	23.72
10'	24.91
9.5'	26.22
9'	27.68
8.5'	29.3
8'	31.14

ACCEPTABLE SHAPES		POST SIZE	# 3	# 4
	MINIMUM DESIGN CRITERIA	IXX IYY SXX SYY	.484 .866 .506 .569	.560 1.264 .644 .697
	MINIMUM DIMENSION STEEL	A B C	1 7/16 ± ⅛ 1¾ ± ⅛ 3½ ± ⅛	38 ± 3 47 ± 3 90 ± 3
	MINIMUM DESIGN CRITERIA	IXX IYY SXX SYY	1.041 .759 .654 .468	1.041 .764 .675 .490
	MINIMUM DIMENSION STEEL	A B C		1 1/16 ± 1/16 3 ± ⅛ 3⅛ ± ⅛
	MINIMUN DESIGN CRITERIA	IXX IYY SXX SYY	.371 .371 .371 .371	
	MINIMUM DIMENSION STEEL	THICKNESS A B	14 GAUGE 2 ± 1/16 2 ± 1/16	

I = MOMENT OF INERTIA (IN^4)

S = SECTION MODULUS (IN^3)

GENERAL NOTES

1. ALL DIMENSIONS AND DESIGN CRITERIA SHOWN ARE MINIMUM VALUES.
2. HOLES ⅜" IN DIAMETER SHALL BE PLACED ON ONE INCH CENTERS STARTING ONE INCH FROM THE POST TOP AND EXTENDING THE FULL LENGTH OF THE POST OR WITHIN 8 FEET OR LESS OF THE BOTTOM OF THE POST. (HOLES IN TUBULAR SECTIONS SHALL EXTEND THROUGH THE OPPOSITE WALL).
3. BACK TO BACK MOUNTING OF "U" CHANNEL POST SHALL HAVE 5/16" GALVANIZED BOLTS SPACED ON 4" CENTERS FOR ENTIRE LENGTH OF POST.
4. BACK TO BACK STEEL "U" CHANNEL POSTS ARE NOT ACCEPTABLE FOR USE UNLESS AN APPROVED BREAKAWAY DEVICE IS USED FOR ALL SIZE POSTS.
5. SIGNS THAT REQUIRE TWO OR MORE TUBULAR POSTS FOR SUPPORT SHOULD BE LIMITED TO A SIZE OF 2" x 2" OR LESS.
6. WHEN THE CHOICE IS MADE BETWEEN "U" CHANNEL AND SQUARE TUBULAR POST THE TYPE CHOSEN WILL BE USED THROUGHOUT THE PROJECT.

NOT TO SCALE

--SPECIFICATIONS--
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REVISIONS:
1. Added to CADD on 11-6-2000 by J.F.T.
2. Added Note No. 6 on 9-29-2010 by J.F.T.
3. Added Square Tubular Post 2", 14 GA and removed #2, 2-5 "U" Channel Post and added "ALLOWABLE SIGN AREA (FT2) PER SINGLE POST" chart on 9-24-2011 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 5-11-1981
REVISED DATE: 9-24-2011

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF ROADWAY SIGN POST (SMALL CHANNEL AND TUBULAR SECTION)

SPECIAL DRAWING NO: IHS-710-12

INDEX NO: 71017

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ISSUE:
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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

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C9.11

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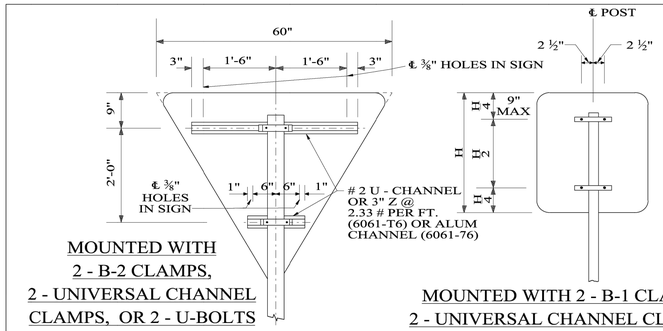
Drawn By: J S | Checked By: T R
Date: 03/28/25 | Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg

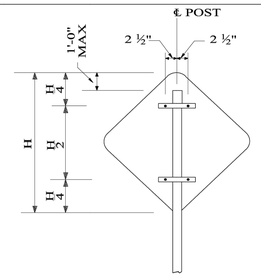
ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

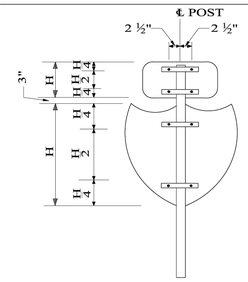


MOUNTED WITH
2 - B-2 CLAMPS,
2 - UNIVERSAL CHANNEL
CLAMPS, OR 2 - U-BOLTS

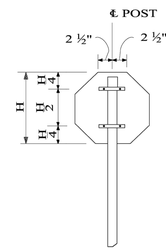
MOUNTED WITH 2 - B-1 CLAMPS
2 - UNIVERSAL CHANNEL CLAMPS,
OR 2 - U-BOLTS ⌀



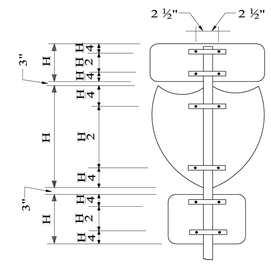
MOUNTED WITH 2 - B-1 CLAMPS
2 - UNIVERSAL CHANNEL CLAMPS,
OR 2 - U-BOLTS ⌀



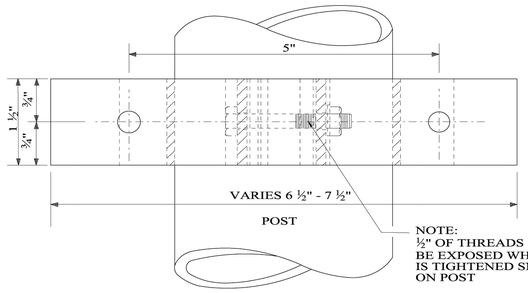
MOUNTED WITH 4 - B-1 CLAMPS
4 - UNIVERSAL CHANNEL CLAMPS,
OR 4 - U-BOLTS ⌀



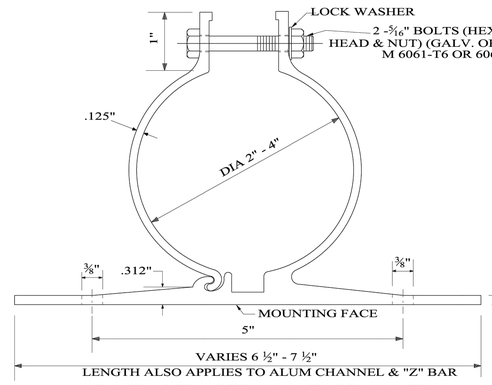
MOUNTED WITH 2 - B-1 CLAMPS
2 - UNIVERSAL CHANNEL CLAMPS,
OR 2 - U-BOLTS ⌀



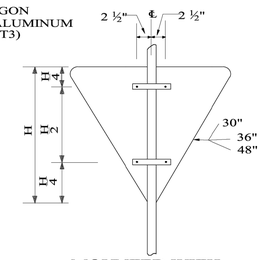
MOUNTED WITH 6 - B-1 CLAMPS
6 - UNIVERSAL CHANNEL CLAMPS,
OR 6 - U-BOLTS ⌀



MOUNTING FACE

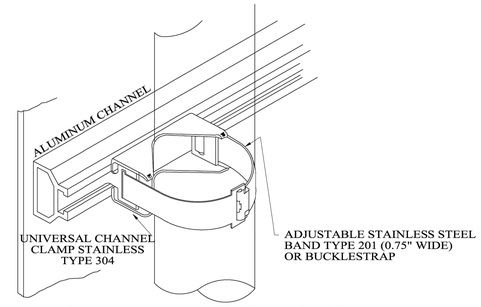


* B-2 CLAMP (ALUM 6061-T6 OR 6063-T3)
5" CENTER TO CENTER SIGN MOUNTING HOLES
USE 5/16" BOLTS WITH SLOTTED HEAD THRU SIGN FACE



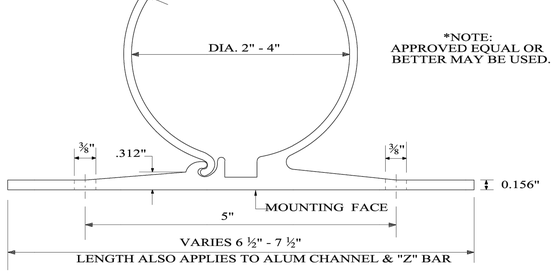
MOUNTED WITH
2 - B-1 CLAMPS,
2 - UNIVERSAL
CHANNEL CLAMPS
OR 2 - U-BOLTS ⌀

NOTE:
ON BOLTED CONNECTIONS WHERE ALUMINUM IS AN ALTERNATE, TYPE 304 STAINLESS STEEL IN ACCORDANCE WITH ASTM A-320 MAY BE USED IN LIEU OF ALUMINUM BOLTS, NUTS AND WASHERS

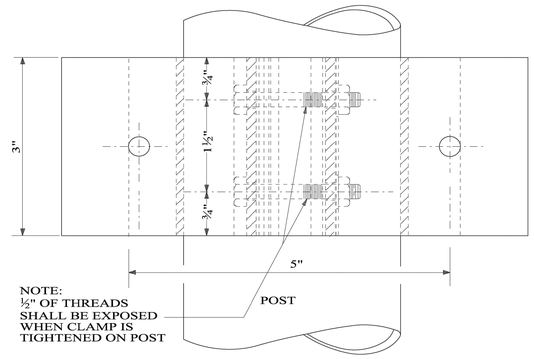


△ ALT DETAIL MOUNTING STANDARD
SIGNS ON ROUND POST

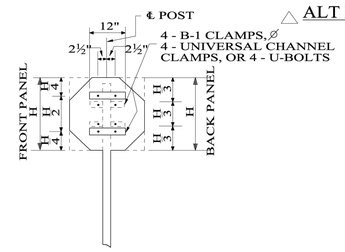
△ NOTE: SEE SPEC DWG IHS-710-24 FOR THE ALUMINUM CHANNEL DETAILS



* B - 1 CLAMP (ALUM 6061-T6 OR 6063-T3)
5" CENTER TO CENTER SIGN MOUNTING HOLES
USE 5/16" BOLTS WITH SLOTTED HEAD THRU SIGN FACE



MOUNTING FACE



DETAIL OF MOUNTING
FOR SIGN MOUNTED
BACK TO BACK

⌀ SIGNS OF 12 SQUARE FEET OR LESS SHALL BE MOUNTED WITH THE APPROPRIATE NUMBER OF B-1 CLAMPS.
SIGNS OVER 12 SQUARE FEET SHALL BE MOUNTED WITH THE APPROPRIATE NUMBER OF B-2 CLAMPS.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Added to CADD on 11-7-2000 by J.F.T.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	1-12-1987
REVISED DATE:	11-7-2000

DESIGN BUREAU SPECIAL DRAWING	SPECIAL DRAWING NO	INDEX NO
HIGHWAY SIGN MOUNTING FOR STANDARD SIGNS	IHS-710-14	71023

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205-942-0696
Attn: Tony Dodd

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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
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Drawn By: J S	Checked By: T R
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File Name: 240421.Sheet C9 01 Details.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

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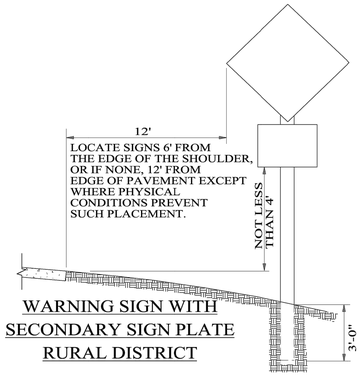
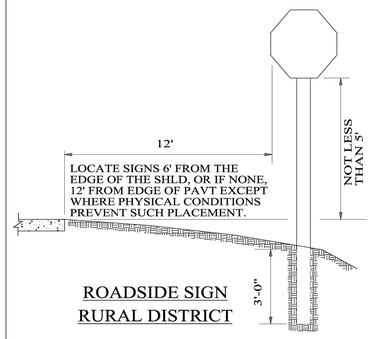
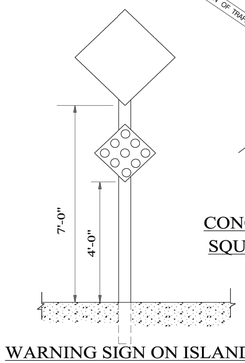


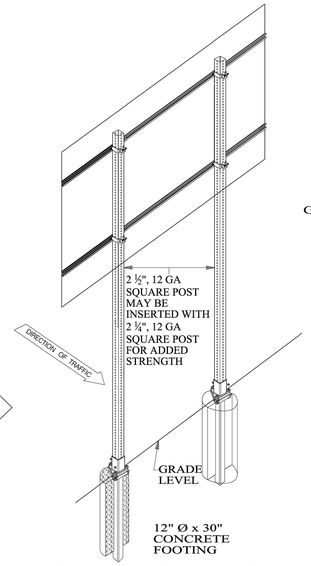
WARNING SIGN WITH SECONDARY SIGN PLATE RURAL DISTRICT



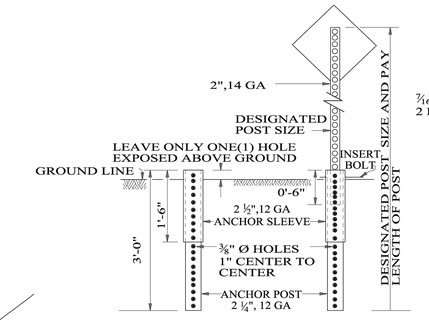
ROADSIDE SIGN RURAL DISTRICT



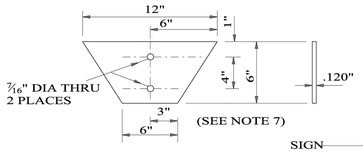
WARNING SIGN ON ISLAND IN LINE OF TRAFFIC



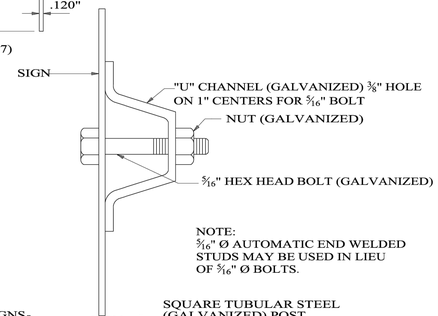
CONCRETE FOOTING FOR SQUARE TUBULAR POST FOR MOUNTING



TUBULAR SHAPE ANCHOR

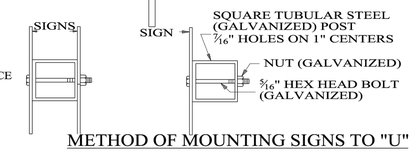


LARGE ANCHOR PLATE

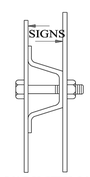


NOTE:
5/16" Ø AUTOMATIC END WELDED STUDS MAY BE USED IN LIEU OF 5/16" Ø BOLTS.

IF AN ANCHOR SLEEVE IS REQUIRED IT SHALL BE 2½", 12 GAUGE. ANCHOR SLEEVES WILL NOT BE REQUIRED IN THE FOLLOWING SITUATIONS: (a) WHERE THE ANCHOR POST IS SET 48" INTO THE GROUND, OR IS BEING PLACED IN A PAVED SURFACE, SUCH AS A SIDEWALK. (b) WHERE THE SIGN WILL BE AT A LOCATION NOT LIKELY TO BE STRUCK BY A VEHICLE, SUCH AS BEHIND A GUARDRAIL OR OTHER PHYSICAL OBSTRUCTIONS. DRIVE ANCHOR POST AND SLEEVE (IF REQUIRED) INTO GROUND SIMULTANEOUSLY USING THE APPROPRIATE SIZE DRIVE CAP. LEAVE ONLY ONE HOLE EXPOSED ABOVE GROUND FOR BOLT CONNECTION. PLACE SIGN POST IN ANCHOR POST AND COMPLETE THE BOLTED CONNECTION.



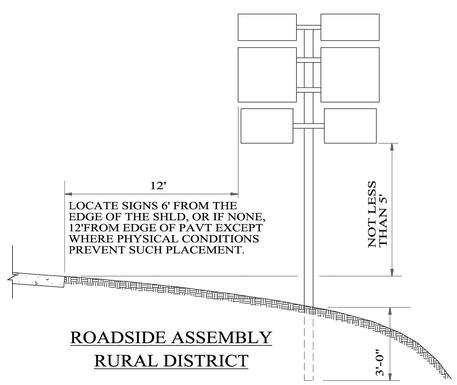
METHOD OF MOUNTING SIGNS TO "U" CHANNEL AND SQUARE TUBULAR POST



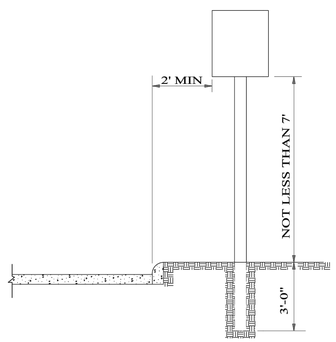
METHOD OF MOUNTING SIGNS BACK TO BACK ON "U" CHANNEL POST
(SEE SINGLE MOUNTED SIGN FOR DETAILS OF POST, NUTS, BOLTS, ETC.)

GENERAL NOTES

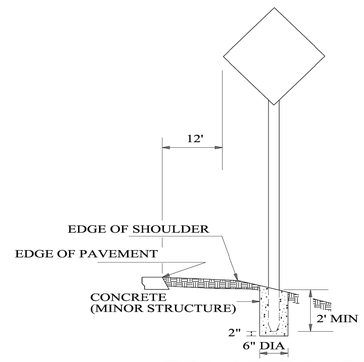
1. SIGNS INSTALLED SHALL MEET ALL REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
2. FOR INDIVIDUAL SIGN PUNCHING STANDARDS, CONSULT MUTCD.
3. THE CONTRACTOR MAY ELECT TO EITHER DRIVE OR SET POST IN CONCRETE AS SHOWN. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE OTHER ITEMS OF WORK. NO EXTRA PAYMENT WILL BE MADE FOR DRIVING OR DIGGING HOLES FOR CONCRETE BACKFILL OR FOR CONCRETE USED AS BACKFILL.
4. WHERE SHATTERED ROCK OR BOULDER IS ENCOUNTERED, A MINIMUM OF THREE (3) FEET EMBEDMENT WILL BE REQUIRED. IN LIEU OF DRIVING, THE CONTRACTOR MAY ELECT TO SET POST IN CONCRETE A MINIMUM OF TWO FEET (2') IN CONCRETE.
5. POST MAY BE FIELD CUT WHERE ROCK IS ENCOUNTERED.
6. THE ANCHOR PLATE IS USED IN AREAS WITH SOFT SOIL. WHEN USED THE ANCHOR PLATE SHOULD BE BOLTED TO THE ANCHOR POST BY USE OF TWO 5/16" Ø HEX-HEAD BOLTS THROUGH THE 10TH AND 14TH HOLES OF THE ANCHOR.
7. THE CONTRACTOR MAY CHOOSE BETWEEN "U" CHANNEL OR SQUARE TUBULAR POST, BUT ONCE A TYPE IS CHOSEN IT WILL BE USED THROUGHOUT THE PROJECT.
8. SIGNS THAT ARE 16 SQUARE FEET (SF) OR LARGER SHALL REQUIRE AT LEAST TWO (2) POSTS. ANY DEVIATION SHALL REQUIRE PRIOR APPROVAL FROM THE PROJECT MANAGER.



ROADSIDE ASSEMBLY RURAL DISTRICT



ROADSIDE SIGN BUSINESS OR RESIDENCE DISTRICT



TYPICAL INSTALLATION ROCK SHOULDER

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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REVISIONS:
1. Added to CADD on 10-11-2000 by J.F.T.
2. Added Note 7 on 9-29-2010 by J.F.T.
3. Designated Tubular post as 2", 14 GA & Anchor as 2 ", 12 GA; edited Installation instructions for Tube post on 2-17-2011 by J.F.T.
4. Added Concrete Footing Detail for Square Tubular Post Detail on 6-23-2011 by J.F.T.
5. Added Note, Anchor Sleeve not required if Anchor Post is set 48" into the ground on 9-8-2014 by L.V.S.
6. Added Note No. 8 on 4-5-2019 by J.F.T.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	8-28-1986
REVISED DATE:	4-5-2019

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR LOCATION AND MOUNTING STANDARD FLAT PANEL SIGNS ON U-CHANNEL AND TUBULAR POSTS

SPECIAL DRAWING NO	INDEX NO
IHS-710-21	71032

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.13

TTL
10 Inverness Center Parkway, Suite 350
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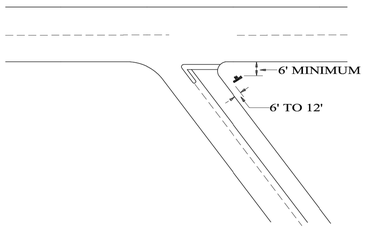
205.526.3970 | www.ttlusa.com

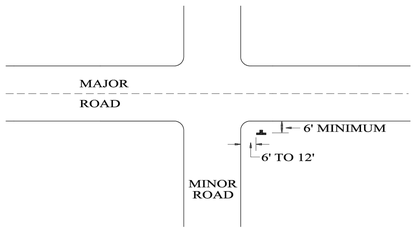
Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

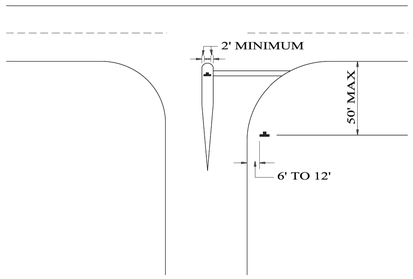
3/21/2024 11:29:03 AM



ACUTE ANGLE INTERSECTION



MINOR CROSSROAD



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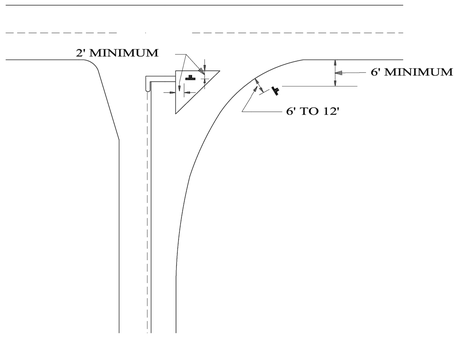
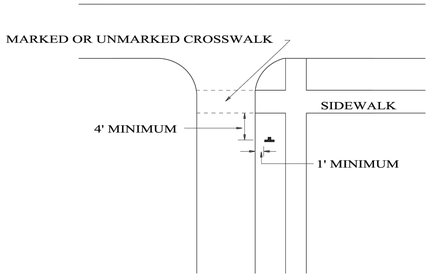
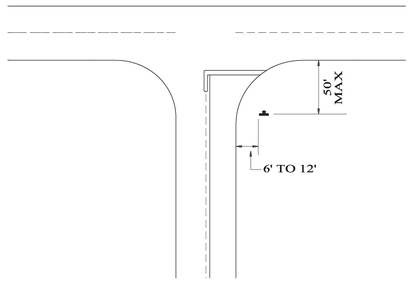


CHANNELIZED INTERSECTION



URBAN INTERSECTION



WIDE THROAT INTERSECTION

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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REVISIONS:
1. Added to CADD on 1-26-2001 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 9-25-1978
REVISED DATE: 1-26-2001

DESIGN BUREAU SPECIAL DRAWING
TYPICAL STOP AND YIELD SIGN LOCATIONS

SPECIAL DRAWING NO: SL-710

INDEX NO: 71041

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ISSUE:
03.31.25
BID

JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.14

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Date: 03/28/25	Job No.: 24-11-00421.00
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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

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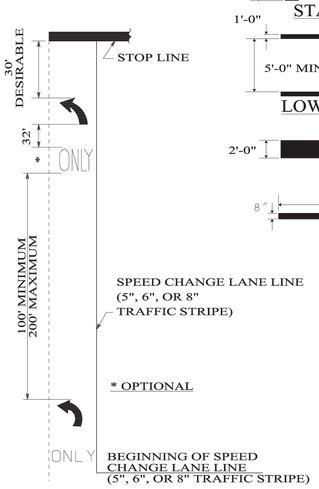
DETAILS FOR TURN LANE MARKINGS & LEGENDS

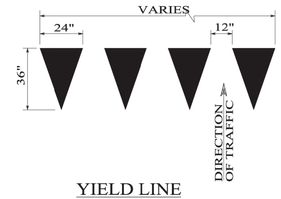
STANDARD CROSSWALK MARKINGS

LOW VOLUME CROSSWALK MARKINGS

STOP LINE

CHANNELIZING LINE

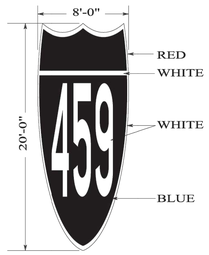




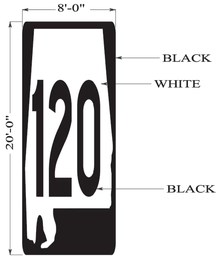
YIELD LINE

AREA = APP 3.00 SQ FT PER TRIANGLE

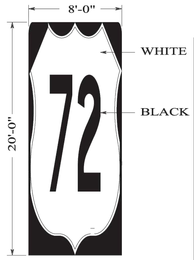
AREA 128 SQ FT



AREA 128 SQ FT



AREA 160 SQ FT



AREA 160 SQ FT

AREA 72 SQ FT

AREA 72 SQ FT

ELONGATED ALABAMA INTERSTATE ROUTE SHIELDS FOR PAVEMENT MARKINGS

"SPECIALTY TRAFFIC CONTROL MARKINGS"

AREA 90 SQ FT

ELONGATED ALABAMA STATE ROUTE SHIELDS FOR PAVEMENT MARKINGS

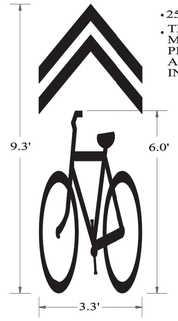
"SPECIALTY TRAFFIC CONTROL MARKINGS"

AREA 90 SQ FT

ELONGATED U.S. ROUTE SHIELD FOR PAVEMENT MARKINGS

"SPECIALTY TRAFFIC CONTROL MARKINGS"

SHARED LANE MARKING SHALL BE INSTALLED PER THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, 2009 EDITION,SECTION 9C.07.

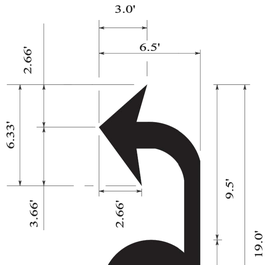


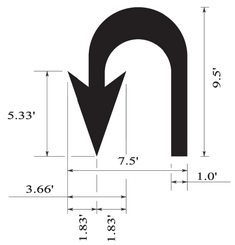
- 250' MAX SPACING
- THE SHARED LANE MARKING SHALL BE PLACED IMMEDIATELY AFTER AN INTERSECTION.

SHARED LANE MARKING DETAIL

"SPECIALTY TRAFFIC CONTROL MARKINGS"
AREA 9 SQ FT

PAVEMENT ARROWS

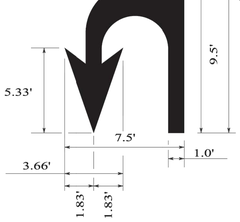




U-TURN ARROW

AREA 27.89 SQ FT

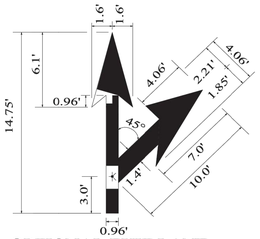
SMALL RADIUS = 2' - 1"
LARGE RADIUS = 3' - 1"



U-TURN / LEFT TURN COMBINATION ARROW

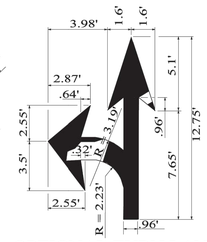
AREA 47.83 SQ FT

SMALL RADIUS = 2' - 1"
LARGE RADIUS = 3' - 1"



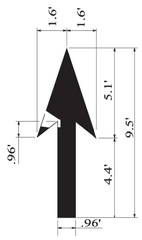
OPTIONAL EXIT LANE

AREA 32.0 SQ FT



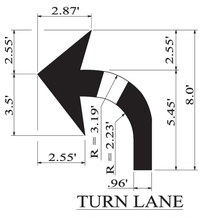
OPTIONAL TURN LANE

AREA 27.57 SQ FT



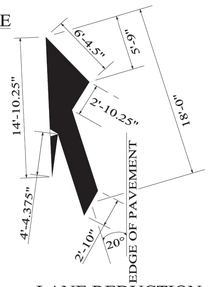
THROUGH LANE

AREA 12.24 SQ FT



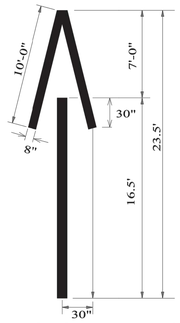
TURN LANE

AREA 16.46 SQ FT



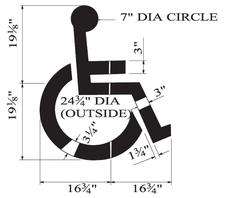
LANE REDUCTION

AREA 42.25 SQ FT



WRONG WAY ARROW

AREA 23.70 SQ FT



AREA 2.36 SQ FT

HANDICAP PVMT MARKING SYMBOL

"SPECIALTY TRAFFIC CONTROL MARKINGS"

GENERAL NOTES

1. ALL LEGENDS AND MARKINGS SHALL CONFORM TO THE MUTCD.
2. THE AREA SHOWN FOR MARKINGS AND LEGENDS ARE APPROXIMATE AND ARE PROVIDED FOR ESTIMATING AND PAYMENT PURPOSES.
3. THE FIRST TURN LANE LEGEND SHALL BE LOCATED ADJACENT TO THE BEGINNING OF THE SPEED CHANGE LANE LINE.
4. ALL LEGENDS AND MARKINGS SHALL BE WHITE IN COLOR UNLESS OTHERWISE NOTED ON DETAIL.
5. ALL LETTERS OF THE ALPHABET AND NUMERALS SHALL BE CLASSIFIED AS LEGENDS, ALL OTHERS SHALL BE CLASSIFIED AS MARKINGS, UNLESS OTHERWISE NOTED AS "SPECIALTY TRAFFIC CONTROL MARKINGS".

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
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REVISIONS:
1. Second portion of original drawing was magnified to show more clarity on 6-25-2013 by J.F.T.
2. Added Interstate Shields on 10-1-2015 by J.F.T.
3. Added "Specialty Traffic Control Markings" pay item, edited Note #5 & added Sharrow detail on 7-7-2016 by L.V.S.
4. Updated the areas of the "ELONGATED ALABAMA STATE ROUTE SHIELDS", "ELONGATED U.S. ROUTE SHIELDS" and "SHARED LANE MARKING DETAIL" on 7-27-2017 by L.V.S.
5. Changed "CROSSWALK MARKINGS" from 6'-0" MIN to 5'-0" MIN and added under PAVEMENT ARROW "WRONG WAY ARROW" on 8-5-2019 by J.F.T.
6. Added U-Turn and U-Turn / Left Turn Combination Markings, Crosswalk Dimensions, and rearranged sheet for fit on 6-16-2020 by J.F.T.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	11-6-1991
REVISED DATE:	6-16-2020

DESIGN BUREAU SPECIAL DRAWING

PAVEMENT LEGENDS AND MARKINGS

SPECIAL DRAWING NO	INDEX NO
TCM-703 (SHEET 2 OF 2)	70302

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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.15

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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

ALABAMA LICENSED No. 26754 PROFESSIONAL ENGINEER TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

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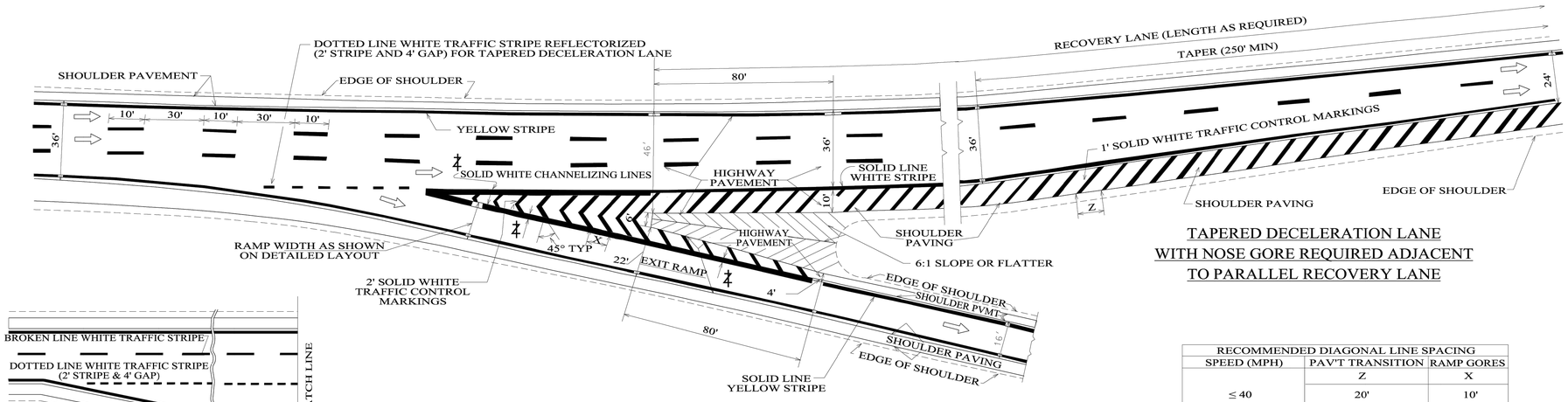
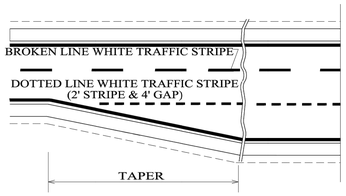
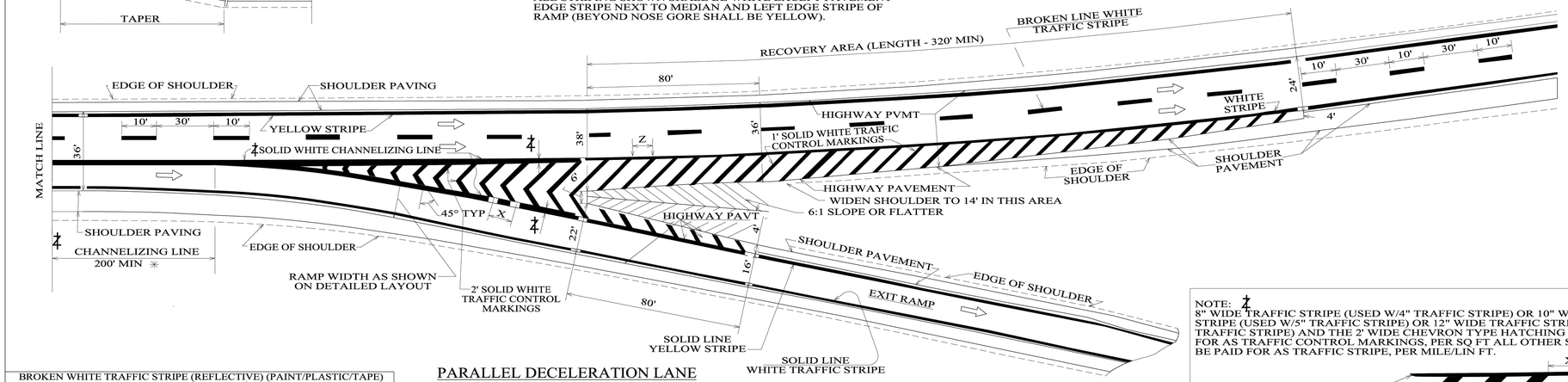


TAPERED DECELERATION LANE
WITH NOSE GORE REQUIRED ADJACENT
TO PARALLEL RECOVERY LANE



RECOMMENDED DIAGONAL LINE SPACING		
SPEED (MPH)	PAV'T TRANSITION	RAMP GORES
	Z	X
≤ 40	20'	10'
≥ 45	30' - 40'	20'

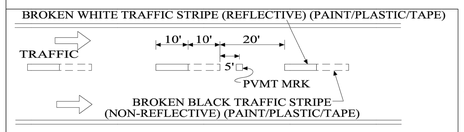
NOTE:
ALL STRIPING SHOWN SHALL BE WHITE EXCEPT PAVEMENT EDGE STRIPE NEXT TO MEDIAN AND LEFT EDGE STRIPE OF RAMP (BEYOND NOSE GORE SHALL BE YELLOW).



PARALLEL DECELERATION LANE
WITH NOSE GORE REQUIRED
ADJACENT TO RECOVERY AREA

NOTE: ✱
8" WIDE TRAFFIC STRIPE (USED W/4" TRAFFIC STRIPE) OR 10" WIDE TRAFFIC STRIPE (USED W/5" TRAFFIC STRIPE) OR 12" WIDE TRAFFIC STRIPE (USED W/6" TRAFFIC STRIPE) AND THE 2' WIDE CHEVRON TYPE HATCHING WILL BE PAID FOR AS TRAFFIC CONTROL MARKINGS, PER SQ FT ALL OTHER STRIPING TO BE PAID FOR AS TRAFFIC STRIPE, PER MILE/LIN FT.

DETAIL OF PLACING CHEVRON
TYPE HATCHING



NOTE: PAYMENT OF BROKEN BLACK TRAFFI STRIPE TO BE 701A OR 701G. TO BE USED ON CONCRETE PAVEMENT OR BRIDGE DECK W/BROKEN WHITE TRAFFIC STRIPE ONLY.

CONTRASTING STRIPING TO BE USED:
1) ON ALL CONCRETE PAVEMENT
2) ON ALL BRIDGES WHERE APPROACHES ARE CONCRETE
3) ON BRIDGES 500 FT OR GREATER IN LENGTH
WHERE APPROACHES ARE ASPHALT

✱NOTE:
CHANNELIZING LINE MAY BE EXTENDED UPSTREAM TO AN EXIT DIRECTION SIGN BUT NOT BEYOND THE END OF FULL WIDTH DECEL LANE.

NOTE:

THE WIDTH OF STRIPE TO BE USED WILL BE IDENTIFIED BY PAY ITEM IN THE PLAN ASSEMBLY.

DETAIL OF EDGE STRIPE WITH OGFC

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
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REVISIONS:
1. Added to CADD on 11-2-1998 by J.F.T.
2. Revised Chevron Hatching Note on 9-20-2000 by J.F.T.
3. Added Concrete Striping Sketch on 11-12-2003 by J.F.T.
4. Adjusted to current guidelines on 8-22-2007 by J.F.T.
5. Clarified where contrasting stripe is to be used on 9-20-2019 by D.J.W.
6. Changed traffic direction arrows to outlines for clarity on 7-21-2020 by D.J.W.
7. Eliminated all references to normal stripe width and added OGFC detail on 8-14-2020 by D.J.W.

Bureau Std Engr:	D.J.W.
DRAWN BY:	
DATE DRAWN:	10-29-1998
REVISED DATE:	8-14-2020

DESIGN BUREAU SPECIAL DRAWING
DETAILS SHOWING NOSE GORE REQUIRED ADJACENT TO PARALLEL RECOVERY LANE AND REQUIRED ADJACENT TO RECOVERY LANE

SPECIAL DRAWING NO	INDEX NO
IPS-10(SC)	70170

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Attn: Tony Dodd

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03.31.25
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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

SHEET
C9.16

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Hoover, AL 35242
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Drawn By: J S	Checked By: T R
Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

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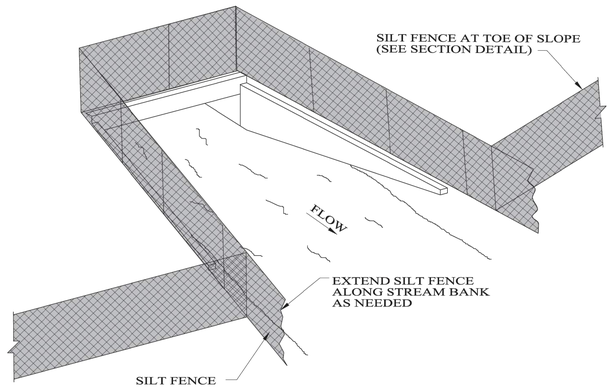
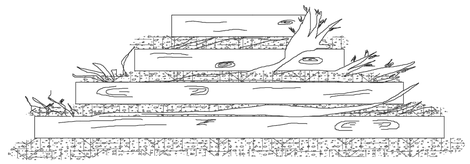
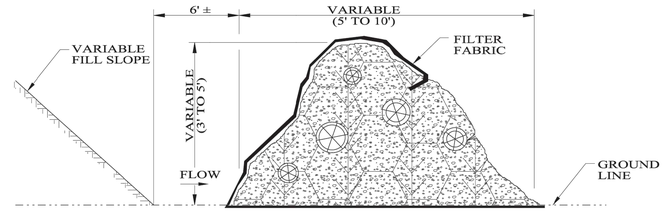


SEDIMENT BARRIER AT CROSS DRAIN



REAR ELEVATION



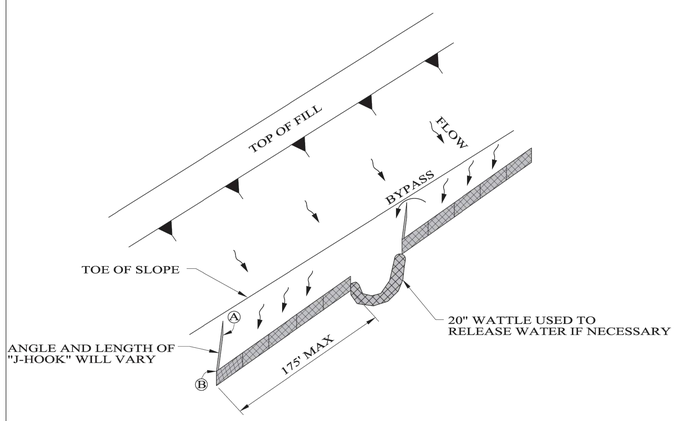
SIDE ELEVATION

TEMPORARY BRUSH BARRIER

NOTES:

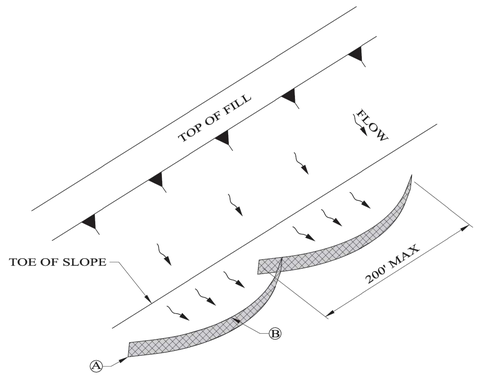
1. BRUSH BARRIER MAY BE USED WHERE NATURAL GROUND IS LEVEL OR SLOPING AWAY FROM PROJECT.
2. PLACE BRUSH, LOG AND TREE LAPS APPROXIMATELY PARALLEL TO TOE OF FILL SLOPE WITH SOME OF THE HEAVIER MATERIALS BEING PLACED ON TOP TO PROPERLY SECURE THE BARRIER AS DETAILED AT LOCATIONS SHOWN ON PLANS OR AS DIRECTED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

NOTE:
ANCHOR AND INSTALL SILT FENCE PER DETAILS SHOWN ON SPECIAL DRAWING No. ESC-200-4.



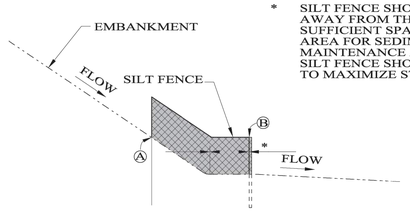
"J-HOOK" SILT FENCE APPLICATION

NOTE:
THE ELEVATION AT THE BOTTOM OF THE DISTANT END OF THE J-HOOK" Ⓐ SHOULD BE THE SAME AS THE LOWEST POINT ALONG THE TOP OF SILT FENCE Ⓑ .



"SMILE-CONFIGURATION" SILT FENCE APPLICATION

NOTE:
EL Ⓐ = EL Ⓑ TO MAXIMIZE STORAGE.



* SILT FENCE SHOULD BE LOCATED AT LEAST 6' AWAY FROM THE TOE OF THE SLOPE TO PROVIDE SUFFICIENT SPACE TO ALLOW A BROAD, FLAT AREA FOR SEDIMENT ACCUMULATION AND MAINTENANCE ACTIVITIES. THE ENDS OF THE SILT FENCE SHOULD BE TURNED UP GRADIENT TO MAXIMIZE STORAGE.

SILT FENCE SECTION AT TOE OF SLOPE

NOT TO SCALE

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REVISIONS:
1. Revised "SIDE ELEVATION" to show Geotextile Filter and Underlayment. Edited and repositioned text on 9-24-2012 by J.F.T.
2. Updated Special Drawing No. from ESC-200 (SHEET 3 OF 5) to ESC-200-3 on 10-31-2016 by J.F.T. & J.M.M.
3. Changed "fill" to "slope" in several callouts, removed "Type A" designation for silt fence, and added 6' distance to * note on 8-11-2020 by D.J.W.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 8-11-2020

DESIGN BUREAU SPECIAL DRAWING
DETAILS OF SEDIMENT BARRIER APPLICATIONS

SPECIAL DRAWING NO	INDEX NO
ESC-200-3	66507

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ALDOT STANDARD DETAILS

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ALABAMA LICENSED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

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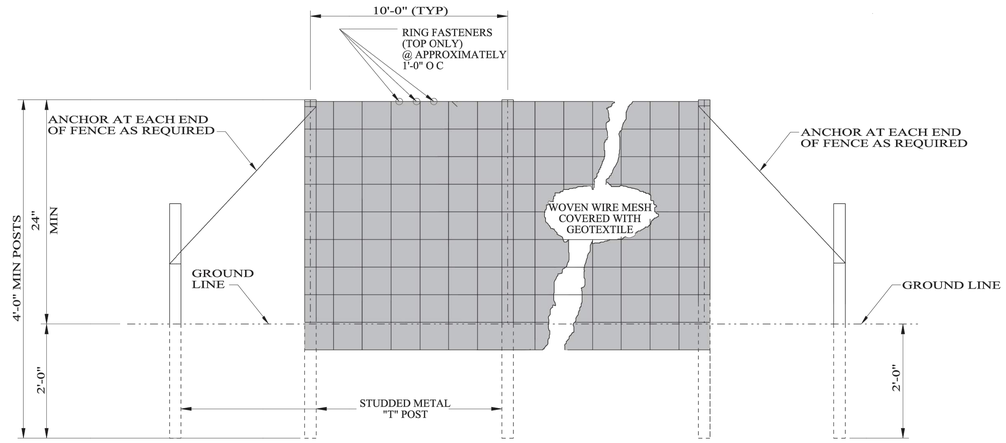
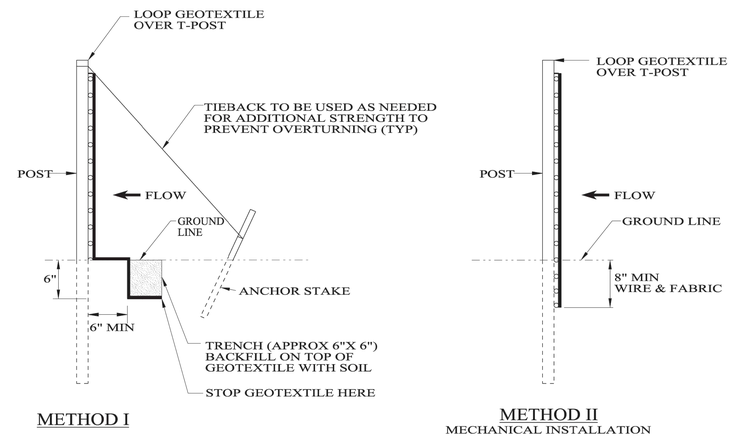


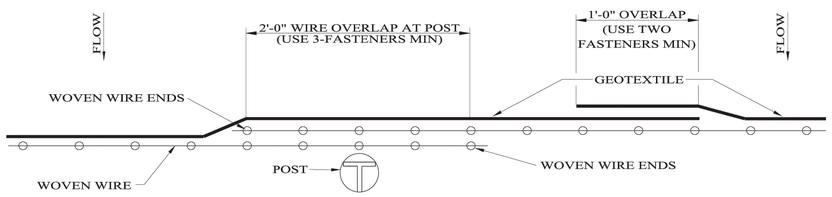
ELEVATION VIEW



METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

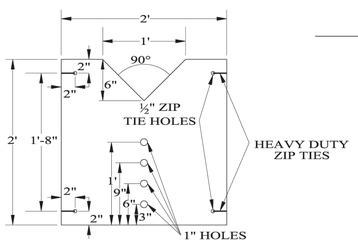


PLAN VIEW

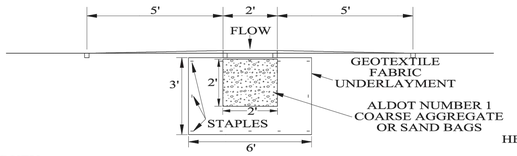
REQUIRED LAPPING

NOTES:

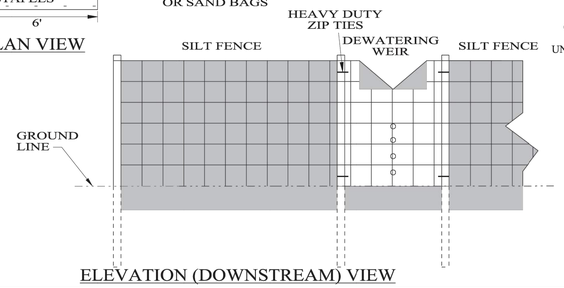
1. METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
2. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
4. SILT FENCE SHOULD BE PLACED WELL INSIDE RIGHT-OF-WAY AND ALONG EDGE OF CLEARING LIMITS. THIS WILL ALLOW ROOM FOR ADDITIONAL BEST MANAGEMENT PRACTICES SUCH AS VEGATATED BUFFERS.
5. WHEREVER POSSIBLE SILT FENCES SHALL BE CONSTRUCTED ACROSS A LEVEL AREA IN THE SHAPE OF A SMILE. THIS AIDS IN PONDING OF RUNOFF AND FACILITATE SEDIMENTATION.
6. FOR AREAS OF CONCENTRATED IMPOUNDMENT, T-POST SPACING SHOULD BE REDUCED TO 5 FT WITH THE INCORPORATION OF A DEWATERING WEIR.
7. THE CONTRACTOR MAY ELECT TO USE EITHER INSTALLATION METHOD I OR METHOD II.
8. METHOD II INSTALLATION SHALL BE ACCOMPLISHED USING AN IMPLEMENT THAT IS MANUFACTURED FOR THE APPLICATION AND PROVIDES A CONFIGURATION MEETING THE REQUIREMENTS OF THE DETAIL.
9. SEE ALDOT LIST II-3 FOR APPROVED SILT FENCE GEOTEXTILES.
10. THE DEWATERING WEIR AND ALL ASSOCIATED ITEMS AND LABOR SHALL BE A SUBSIDIARY OBLIGATION OF THE SILT FENCE.



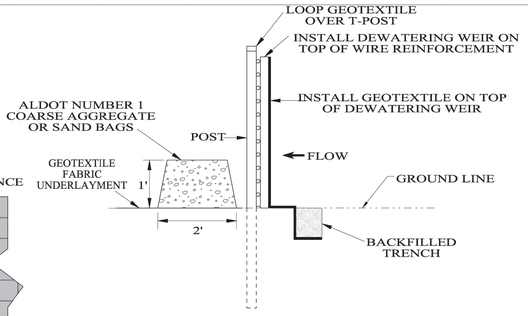
WEIR DETAIL
CONSTRUCTED OF ¾" PLYWOOD



PLAN VIEW



ELEVATION (DOWNSTREAM) VIEW



SIDE VIEW

DEWATERING WEIR

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

ALABAMA DEPARTMENT OF TRANSPORTATION
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REVISIONS:
1. Revised Fence height and deleted (Type A) from the Silt Fence description on 7-12-2007 by W.W.A.
2. Revised Notes 2, 3, 4, 6 and added 8 on 8-24-2011 by J.F.T.
3. Updated Special Drawing No. from ESC-200 (SHEET 4 OF 5) to ESC-200-4 on 10-31-2016 by J.F.T. AND J.M.M.
4. Revised Elevation View and Method I view. Added new Note 6 and renumbered rest accordingly. Added dewatering weir and installation details on 9-2-2020 by D.J.W.
5. Revised Side View of Method I in upper right measurement from 6" to 6" MIN on 06-22-2022 by J.F.T.

Bureau Std Engr: G.L.D.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 6-22-2022

DESIGN BUREAU SPECIAL DRAWING: DETAILS OF SILT FENCE INSTALLATION

SPECIAL DRAWING NO: ESC-200-4

INDEX NO: 66508

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JOB NO.
24001

DESCRIPTION:
ALDOT STANDARD DETAILS

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Drawn By: J S | Checked By: T R
Date: 03/28/25 | Job No.: 24-11-00421.00
File Name: 240421.Sheet C9.01 Details.dwg

ALABAMA REGISTERED PROFESSIONAL ENGINEER No. 26754 TIMOTHY A. ROBERTS 03-28-2025

3/21/2024 11:29:03 AM

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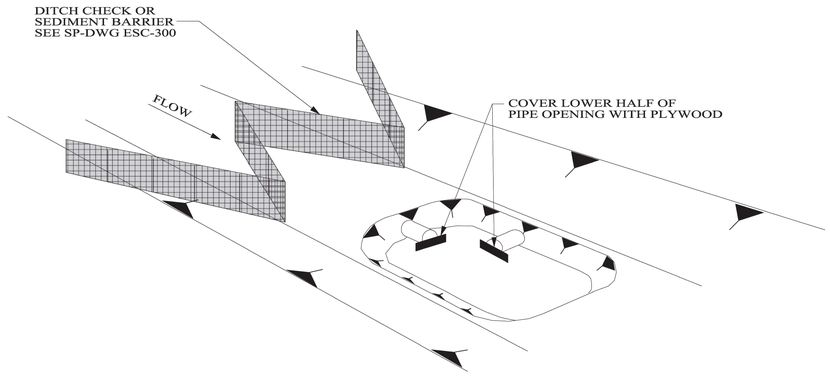
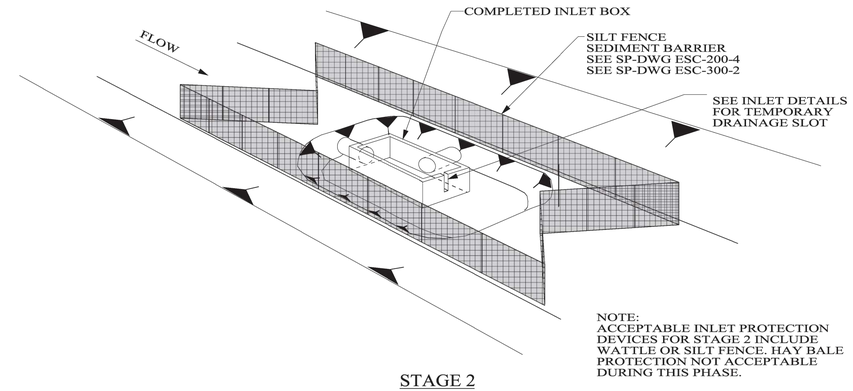


STAGE 1

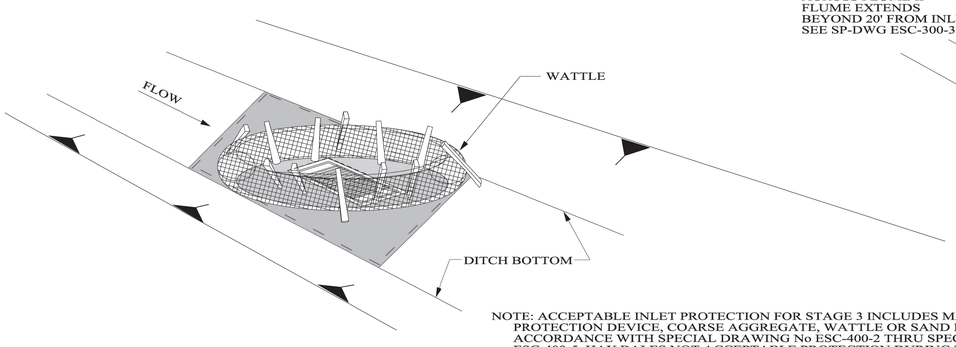
INLET/JUNCTION BOX LOCATION EXCAVATED



NOTE:
ACCEPTABLE INLET PROTECTION DEVICES FOR STAGE 2 INCLUDE WATTLE OR SILT FENCE. HAY BALE PROTECTION NOT ACCEPTABLE DURING THIS PHASE.

STAGE 2

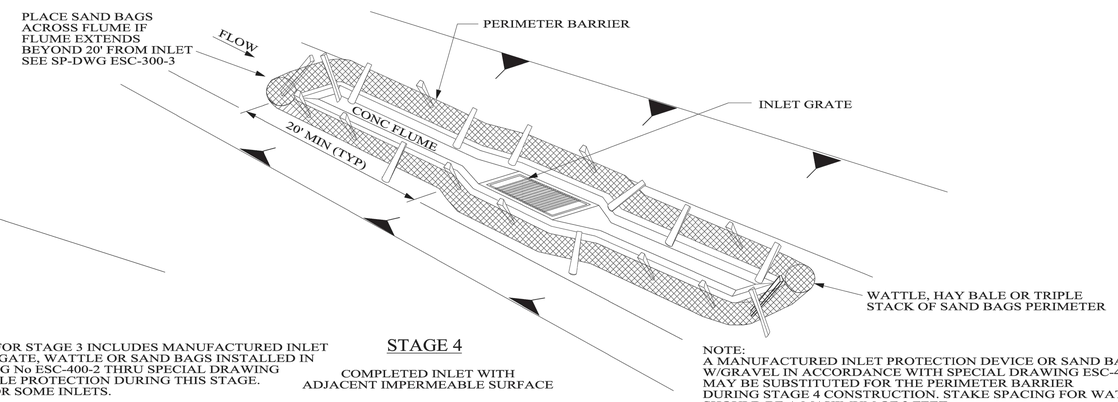
INLET/JUNCTION BOX
CONSTRUCTED BUT NOT BACKFILLED



NOTE: ACCEPTABLE INLET PROTECTION FOR STAGE 3 INCLUDES MANUFACTURED INLET PROTECTION DEVICE, COARSE AGGREGATE, WATTLE OR SAND BAGS INSTALLED IN ACCORDANCE WITH SPECIAL DRAWING No ESC-400-2 THRU SPECIAL DRAWING ESC-400-5. HAY BALES NOT ACCEPTABLE PROTECTION DURING THIS STAGE. STAGE 3 MAY BE THE COMPLETION FOR SOME INLETS.

STAGE 3

INLET CONSTRUCTED AND BACKFILLED



STAGE 4

COMPLETED INLET WITH
ADJACENT IMPERMEABLE SURFACE

NOTE:
A MANUFACTURED INLET PROTECTION DEVICE OR SAND BAGS W/GRAVEL IN ACCORDANCE WITH SPECIAL DRAWING ESC-400-5 MAY BE SUBSTITUTED FOR THE PERIMETER BARRIER DURING STAGE 4 CONSTRUCTION. STAKE SPACING FOR WATTLES SHOULD BE A MAXIMUM OF 2 FEET.

DITCH INLET CONSTRUCTION STAGES

NOTES:

1. FOUNDATION BACKFILL SHOULD BE PLACED IN STAGE 1 IMMEDIATELY AFTER PIPE INSTALLATION. INLET CONSTRUCTION SHOULD COMMENCE AS SOON AS POSSIBLE AND BE CONTINUOUS THROUGH COMPLETION.
2. CONFIGURATIONS MAY BE ADJUSTED WITH APPROVAL OF THE ENGINEER FOR TRAVELWAY SAFETY, WATER FLOW, SOIL OR INSTALLATION CHALLENGES.
3. DURING STAGE 1 AND STAGE 2, SILT SENCE MAY BE REQUIRED UPSLOPE OF THE INLET EXCAVATION AS DIRECTED BY THE ENGINEER.
4. IF SILT FENCING IS INSTALLED AROUND THE INLET EXCAVATION IT SHOULD BE PLACED IN A CONFIGURATION THAT WILL ALLOW INLET CONSTRUCTION.
5. FOR CURB INLET PROTECTION SEE SPECIAL DRAWING No ESC-400-3 AND SPECIAL DRAWING No ESC 400-5.
6. SEE ALDOT LIST II-24 FOR APPROVED MANUFACTURED INLET PROTECTION DEVICES.

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--SPECIFICATIONS--
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REVISIONS:
1. Revised Note 5 from "SHT 3 OF 5 AND SHT 4 OF 5" to "SHT 3 OF 4 AND SHT 4 OF 4 and removed Notes 3, 4, 5, 6 renumbered & added new No. 6 on 9-2-2011 by J.F.T.
2. Revised and updated "STAGE 3" and "STAGE 4" with new staking on 9-24-2012 by J.F.T.
3. Revised and updated "STAGE 3" note and adjusted "STAGE 4" note. Revised Note 6 on 10-24-2014 by J.F.T.
4. Updated Special Drawing No. from ESC-400 (SHEET 1 OF 5) to ESC-400-1 and others using same pattern on 10-31-2016 by J.F.T. & J.M.M.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 10-31-2016

DESIGN BUREAU SPECIAL DRAWING
INLET PROTECTION
TYPICAL APPLICATIONS AND DETAILS

SPECIAL DRAWING NO	INDEX NO
ESC-400-1	66522

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Date: 03/28/25	Job No.: 24-11-00421.00
File Name: 240421.Sheet C9 01 Details.dwg	

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No. 26754
PROFESSIONAL ENGINEER
TIMOTHY A. ROBERTS
03-28-2025

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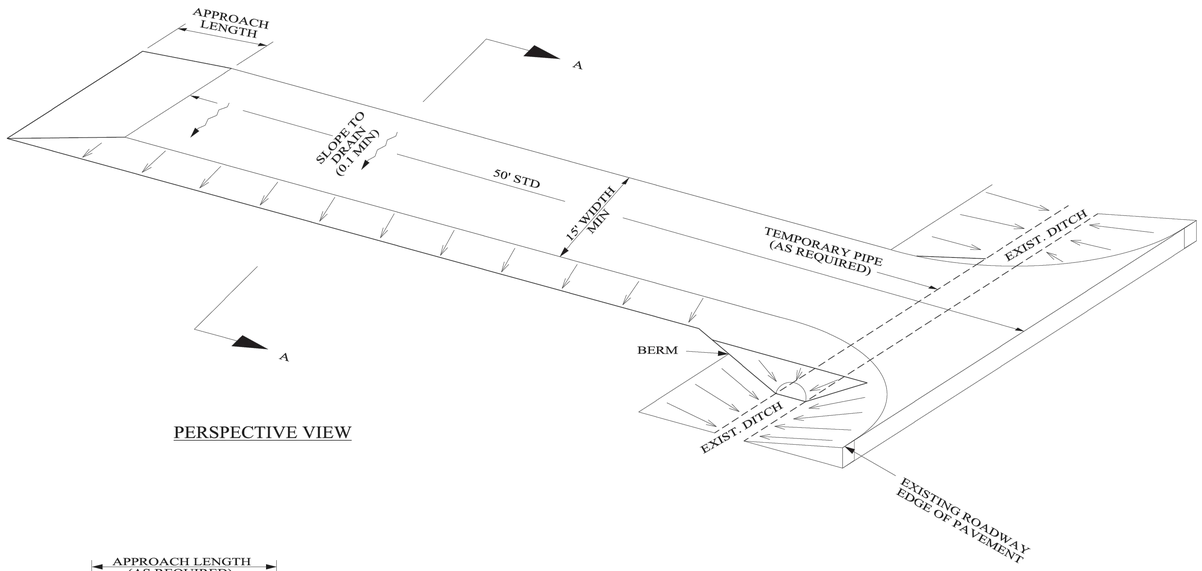
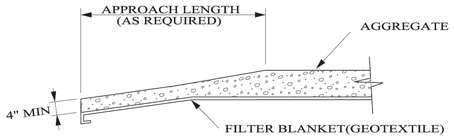
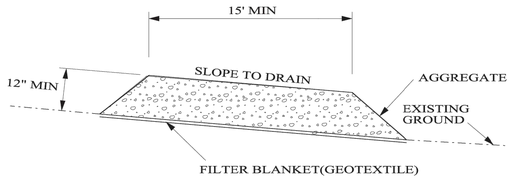


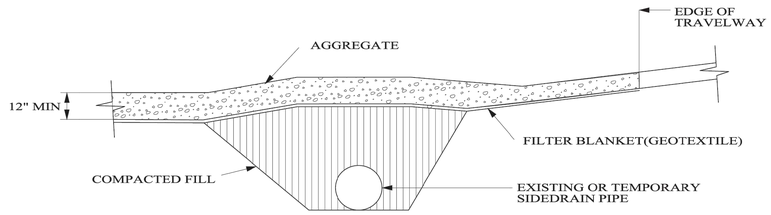
PERSPECTIVE VIEW



TRANSITION DETAIL



SECTION A-A



RURAL CONNECTION DETAIL

NOTES:

1. A STABILIZED CONSTRUCTION ENTRANCE SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE EROSION SEDIMENT CONTROL SHEETS OR AS APPROVED BY THE ENGINEER BASED ON SAFETY, ECONOMY AND CONSTRUCTION SEQUENCE. THESE ENTRANCES ARE POINTS OF EGRESS FROM UNSTABILIZED AREAS OF THE PROJECT TO PUBLIC ROADS WHERE OFFSITE TRACKING OF MUD COULD OCCUR. TRAFFIC FROM UNSTABILIZED AREAS OF THE PROJECT SHALL BE DIRECTED THRU THE STABILIZED ENTRANCE. BARRIERS, FLAGGING, OR OTHER POSITIVE MEANS SHALL BE USED AS REQUIRED TO LIMIT AND DIRECT VEHICULAR EGRESS ACROSS THE STABILIZED ENTRANCE.

2. THE CONTRACTOR MAY PROPOSE AN ALTERNATIVE TECHNIQUE TO MINIMIZE OFFSITE TRACKING OF SEDIMENT. THE ALTERNATIVE MUST BE REVIEWED AND APPROVED BY THE ENGINEER PRIOR TO IT'S USE.

3. ALL MATERIALS SPILLED, DROPPED, OR TRACKED ONTO PUBLIC ROADS (INCLUDING THE STABILIZED CONSTRUCTION ENTRANCE AGGREGATE AND CONSTRUCTION MUD) SHALL BE REMOVED DAILY, OR MORE FREQUENTLY IF SO DIRECTED BY THE ENGINEER.

4. AGGREGATES SHALL BE ALDOT SIZE #1. SIZES CONTAINING EXCESSIVE SMALL AGGREGATE WILL TRACK OFF THE PROJECT AND ARE UNSUITABLE.

5. THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL ALLOW IT TO PERFORM IT'S FUNCTION TO PREVENT OFFSITE TRACKING, THE STABILIZED CONSTRUCTION ENTRANCE SHALL BE RINSED WHEN NECESSARY TO MOVE ACCUMULATED MUD DOWNWARD THRU THE STONE. ADDITIONAL STABILIZATION OF THE VEHICULAR ROUTE LEADING TO THE STABILIZED ENTRANCE MAY BE REQUIRED TO LIMIT THE MUD TRACKED.

6. THE NOMINAL SIZE OF A STANDARD STABILIZED CONSTRUCTION ENTRANCE IS 15' X 50' UNLESS OTHERWISE SHOWN IN THE PLANS. IF THE VOLUME OF ENTERING AND EXITING VEHICLES WARRANT, A 30' WIDTH MAY BE USED IF APPROVED BY THE ENGINEER.

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REVISIONS:
1. Changed Plan View to Perspective View & revised Note 1 on 8-24-2011 by J.F.T.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN: 2006
REVISED DATE: 8-24-2011

DESIGN BUREAU SPECIAL DRAWING
STABILIZED CONSTRUCTION ENTRANCE

SPECIAL DRAWING NO: ESC-502

INDEX NO: 66532

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