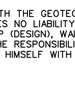

GENERAL NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR MAKING APPLICATION, AND PAYING FOR ALL NECESSARY PERMITS. ALL PERMITS MUST BE IN HAND BEFORE CONSTRUCTION BEGINS.
2. THE CONTRACTOR SHALL PREVENT THE DESTRUCTION OF ALL SURVEY MONUMENTS, BENCH MARKS, PROPERTY CORNERS AND ALL OTHER SURVEY POINTS. THE CONTRACTOR IS TO INFORM THE CONSULTANT IN WRITING, PRIOR TO THE DISTURBANCE OF ANY MONUMENT, AND IS NOT TO DISTURB THE POINT UNTIL WRITTEN PERMISSION TO DO SO HAS BEEN GRANTED BY THE CONSULTANT.
3. ALL EXISTING TREES AND SHRUBS OUTSIDE OF THE LIMITS OF WORK SHALL BE PROTECTED DURING CONSTRUCTION, AND ARE NOT TO BE DAMAGED IN ANY MANNER.
4. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO EXISTING IMPROVEMENTS THAT ARE TO REMAIN ON OR OFF SITE DUE TO CONSTRUCTION OF THIS PROJECT. ANY DAMAGES WILL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND PROPER DISPOSAL OF ALL BOULDERS, DEBRIS, EXCESS CONSTRUCTION MATERIALS AND MATERIAL GENERATED FROM ANY DEMOLITION.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING EXISTING UTILITIES LOCATED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION. THE CONSULTANT/SURVEYOR ASSUME NO RESPONSIBILITY AS TO THE ACCURACY OR COMPLETENESS OF THE EXISTING UTILITIES SHOWN ON THE PLANS.
7. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL STORM DRAINAGE PIPES SHALL BE REINFORCED CONCRETE CLASS III (ASTM C-76). COMPACTED GRANULAR MATERIAL FOR BEDDING SHALL BE REQUIRED AS SHOWN ON THE PIPE BEDDING DETAIL.
8. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL RIP RAP SHALL BE CLASS II, IN ACCORDANCE WITH SECTION 814, ALDOT, LATEST EDITION, AND SHALL BE GROUTED WHERE INDICATED ON THE PLANS.
9. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS OF THE JOB SITE, INCLUDING THE SAFETY OF ALL PERSONS AND PROPERTY DURING PERFORMANCE OF THE WORK. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
10. THE CONTRACTOR SHALL PROVIDE ADEQUATE TRAFFIC CONTROL DEVICES AND SAFETY MEASURES FOR THE CONSTRUCTION WORK WITHIN PUBLIC RIGHTS-OF-WAY AND OTHER AREAS WHICH REQUIRE ITS USE IN ACCORDANCE WITH THE FEDERAL HIGHWAY ADMINISTRATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (M.U.T.C.D.) LATEST EDITION.
11. ALL SIDEWALKS SHALL HAVE A 1.8% MAXIMUM CROSS SLOPE. ALL HANDICAP PARKING, RAMPS, SIGNS, AND SYMBOLS SHALL CONFORM TO THE LATEST AMERICANS WITH DISABILITIES ACT (ADA) SPECIFICATIONS. IF DISCREPANCIES ARISE, THE CONTRACTOR SHALL CONTACT THE CONSULTANT AND ENSURE THAT THESE REQUIREMENTS ARE MET.
12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE EXTENT, LOCATION, AND ELEVATION OF THE EXISTING IMPROVEMENTS. IF ANY DIFFERENCE IN SITE CONDITION OR ELEVATION IS FOUND, THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY.
13. THE CONTRACTOR SHALL CHECK THE ARCHITECTURAL AND MEP PLANS WITH THE SITE PLAN FOR ANY DISCREPANCIES BEFORE THE WORK BEGINS. THE CONSULTANT IS NOT RESPONSIBLE FOR ARCHITECTURAL AND MEP CHANGES AFTER PLANS HAVE BEEN SUBMITTED OR CHANGES MADE DURING CONSTRUCTION.
14. ANY MAJOR CHANGES OR REVISIONS MADE TO THE PLANS AFTER INITIAL APPROVAL SHALL BE OFFICIALLY SUBMITTED FOR APPROVAL TO THE CITY (COORDINATE WITH THE CONSULTANT AS REQUIRED), THE AFFECTED UTILITIES, AND ALL OTHER PERTINENT AGENCIES, APPROVAL OF CHANGES MUST BE RECEIVED BEFORE THE CONTRACTOR PERFORMS THE REQUESTED CHANGES/REVISIONS OR THEY WILL BE AT THE CONTRACTOR'S RISK.

EARTHWORK GENERAL NOTES:

1. THE SITE TOPOGRAPHY AND OTHER TOPOGRAPHIC DATA SHOWN ON THE PLANS OR INCLUDED IN THE SPECIFICATIONS ARE FOR THE INFORMATION OF THE CONTRACTOR. THE CONTRACTOR SHALL MAKE SUCH ADDITIONAL INVESTIGATIONS AS REQUIRED TO ACQUAINT HIMSELF ADEQUATELY WITH THE SITE, INCLUDING SUBSURFACE SOIL CONDITIONS, FOR PREPARATION OF HIS BID, AND FOR THE SUCCESSFUL EXECUTION OF THE WORK.
2. UNLESS INDICATED OTHERWISE ON THE PLANS, ALL PROPOSED CONTOURS AND ALL PROPOSED SPOT ELEVATIONS SHOWN ARE TO FINISHED GRADE. THE CONTRACTOR SHALL MAKE SUB-GRADE ADJUSTMENTS FOR TOPSOIL, PAVING, BUILDING PAD, ETC.
3. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR THE PROTECTION OF HIS WORK. SUCH GRADING AS IS REQUIRED FOR THIS PURPOSE SHALL BE THE CONTRACTOR'S RESPONSIBILITY AND SHALL BE PERFORMED AT NO ADDITIONAL COST TO THE OWNER. THE OWNER MAY DIRECT THE CONTRACTOR TO PERFORM SUCH GRADING AND DRAINAGE AS IS NECESSARY TO PREVENT SURFACE RUNOFF FROM DAMAGING THE WORK.
4. ALL EARTH FILL SHALL BE COMPACTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS, GEOTECHNICAL RECOMMENDATIONS, OR GOVERNING MUNICIPALITY STANDARDS, WHICHEVER IS GREATER.
5. ALL EARTH FILL SHALL BE PLACED IN UNIFORM LAYERS OR LIFTS NOT EXCEEDING 6" IN COMPACTED THICKNESS, UNLESS INDICATED OTHERWISE ON THE PLANS.
6. ALL EARTH FILL SHALL BE PLACED IN ACCORDANCE WITH SECTION 210, ALDOT, LATEST EDITION. ALL EARTH FILL UNDER BUILDINGS SHALL ALSO MEET REQUIREMENTS OF THE ARCHITECT'S PLANS AND SPECIFICATIONS.
7. IF A GEOTECHNICAL REPORT HAS BEEN PREPARED FOR THE SITE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR FOLLOWING THE SITE PREPARATION RECOMMENDATIONS SPECIFIED WITHIN THIS DOCUMENT, UNLESS MORE STRINGENT REQUIREMENTS ARE GIVEN ON THE PLANS.
8. ANY EXCESS EXCAVATION CREATED BY GRADING OPERATIONS SHALL BE CONSIDERED WASTE AND SHALL BE HAULED OFF AND DISPOSED OF LEGALLY AT THE CONTRACTOR'S EXPENSE OR NEGOTIATED WITH OWNER TO DISPOSE OF ON SITE.
9. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING DRAINAGE AWAY FROM THE EXISTING AND PROPOSED BUILDINGS, CONCRETE PAVING, AND SIDEWALKS. THERE SHALL BE NO PONDING OF WATER ON THE SITE.
10. THE CONTRACTOR SHALL VERIFY THE LOCATIONS AND CONDITIONS OF ALL UTILITIES TO BE UTILIZED FOR CONSTRUCTION SERVICE HOOK UPS, STORM SEWERS, AND SANITARY SEWERS PRIOR TO PROCEEDING WITH THE LAYING OF PIPE. THE CONTRACTOR SHALL NOTIFY THE PROJECT CONSULTANT IMMEDIATELY OF ANY CONFLICTS OR DISCREPANCIES. ALL SERVICE CONNECTIONS TO UTILITIES SHALL BE APPROVED BY THE RESPECTIVE UTILITY AND SHALL CONFORM TO THE LATEST SPECIFICATIONS.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING ALL UTILITY LOCATIONS WITH THE LOCAL UTILITIES. CONTACT WITH EACH UTILITY SHOULD BE MADE BY THE CONTRACTOR BEFORE ANY CONSTRUCTION BEGINS ON THIS PROJECT.
12. CONTRACTOR TO COORDINATE ANY UTILITY SHUTOFFS WITH OWNER 7 DAYS PRIOR TO WORK. ALL EFFORTS SHOULD BE MADE TO MINIMIZE SHUTOFF TO UTILITIES SERVING OTHER FACILITIES.
13. UNSTABLE AND PUMPING SUBGRADE CONDITIONS MAY OCCUR DURING SITE PREPERATION AND UNDERCUTTING OPERATIONS. PROPER PROTECTION OF SUBGRADE, DRAINAGE, AND DEWATERING WILL BE CRITICAL TO SITE CONSTRUCTION EFFORTS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EQUIPMENT TRAFFIC ACROSS THE SITE. EVERY EFFORT SHALL BE MADE TO LOCALIZE EQUIPMENT TAGGING AND TRAFFIC TO SPECIFIC AREAS AND LIMIT THE AMOUNT OF UNDERCUTTING AND SOIL STABILIZATION THAT MAY BE NEEDED.
14. THE CONTRACTOR IS TO COORDINATE ALL EARTHWORK WITH THE GEOTECHNICAL EVALUATION. IF NO GEOTECHNICAL REPORT HAS BEEN PERFORMED, THE CONSULTANT ASSUMES NO LIABILITY IN SITE FEATURES THAT RELY ON GEOTECHNICAL EVALUATIONS SUCH AS PAVEMENT BUILD-UP (DESIGN), WALLS, ETC. SPECIFIC CONSTRUCTION CONCERNS AND ACTUAL CONSTRUCTION MEANS AND METHODS ARE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND FAMILIARIZING HIMSELF WITH THE SITE AND WITH THE GEOTECHNICAL REPORT IF ONE IS PERFORMED AT A LATER DATE.

SEEDING NOTES:

1. THE CONTRACTOR IS REQUIRED TO FURNISH ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY FOR THE SEEDING OF ALL DISTURBED AREAS AND OTHER AREAS SPECIFIED ON THE GRADING PLANS. ALL SPECIFIED SURFACE AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS.
2. TOPSOIL SHALL BE STRIPPED AND STOCKPILED DURING CONSTRUCTION. A MINIMUM OF 6" OF CONDITIONED AND AMENDED TOPSOIL SHALL BE RESPREAD OVER ALL AREAS SPECIFIED FOR SEEDING. GRADING SHALL CONFORM WITH THE GRADING PLAN.
3. SEEDING SHALL BE AS FOLLOWS: (A) "REBEL" OR "FALCON" FESCUE SEED (UNTIL APRIL 15TH) WITH 95% GERMINATION. APPLICATION RATE SHALL BE 8 LBS. PER 1,000 SQUARE FEET. (B) BERMUDA SEED (FROM APRIL 15TH TO AUGUST 15TH) WITH 95% GERMINATIONS. APPLICATION RATE SHALL BE 3 LBS. PER 1,000 SQUARE FEET.
4. SOIL AMENDMENT SHALL BE RECOMMENDED USING LIME OR SULFUR TO ACHIEVE A SOIL PH OF 5.5 TO 6.5.
5. "2-4-D ROUNDUP" OR EQUIVALENT POST-EMERGENT HERBICIDE SHALL BE REQUIRED TO KILL EXISTING WEEDS PRIOR TO SEEDING. "TREFLAN", "DACTAL" OR EQUIVALENT PRE-EMERGENT HERBICIDE SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION.
6. PROTECTION OF SEEDED AREAS ON STEEP SLOPES SHALL BE REQUIRED FOR ALL SEEDED AREAS TO PREVENT WEED GERMINATION.
7. PROTECTION OF SEEDED AREAS ON STEEP SLOPES SHALL BE PROVIDED USING AN EROSION CONTROL BLANKET WHERE INDICATED ON THE PLANS. APPLY BLANKET TO THE SLOPE AFTER PROPER PREPARATION AND SEEDING OF THE GROUND.

ALDOT NOTES

1. CONTACT DISTRICT ADMINISTRATOR AT (205) 274-2112 48 HOURS PRIOR TO BEGINNING WORK ON ALDOT RIGHT-OF-WAY.
2. WRITE A LETTER REQUESTING TO MEET WITH DISTRICT PERMIT COORDINATOR UPON COMPLETION OF PERMITTED WORK TO EVALUATE PUNCH LIST FOR COMPLETION OF PROJECT.
3. ALL DISTURBED AREAS SHALL BE RE-SODDED OR SEEDED IN ACCORDANCE WITH THE LATEST ALDOT SPECIFICATIONS FOR GRASSING OR AS DIRECTED BY THE DEPARTMENT OF TRANSPORTATION'S DISTRICT MANAGER. SEED MIX TO BE FOR ZONE 1 AND MEET THE PLANTING DATES IN THE LATEST ALDOT SPECIFICATIONS.
4. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MOST CURRENT EDITION OF PART 6 OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
5. THE ALDOT DISTRICT OFFICE IN ONEONTA, AL MUST BE NOTIFIED AT (205) 274-2112 IMMEDIATELY UPON A LANE CLOSURE BEGINNING AND ENDING.
6. ALL WORK ON ALDOT ROW SHALL MEET OR EXCEED ALDOT STANDARDS AND SPECIFICATIONS.
7. IF ANY INSTALLATION REQUIRES THE REMOVAL AND/OR REPLACEMENT OF SIDEWALK AND/OR HANDICAP RAMPS IT WILL NEED TO BE INCLUDED ON THE DRAWINGS AND A NOTE WILL NEED TO BE ADDED TO INDICATE THAT THE WORK WILL MEET ALL ADA REQUIREMENTS. ANY SIDEWALK AND/OR HANDICAP RAMP REMOVAL AND REPLACEMENT SHALL REQUIRE THE CLOSURE OF THE IMPACTED SIDEWALK/RAMP AND THE APPLICANTS PLAN FOR CLOSING THE SIDEWALK SHOULD BE INCLUDED IN THE PERMIT SUBMITTAL.
8. RIGHT-OF-WAY MARKERS OR MONUMENTS SHALL NOT BE DISTURBED.
9. THE DISTRICT'S PEAK HOURS ARE BEFORE 8:00 A.M. AND AFTER 4:00 P.M. NO LANE CLOSURES OR POSSIBLE TRAFFIC INTERFERENCES SHALL BE ALLOWED DURING PEAK HOURS.
10. 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.
11. IF THE WORK ENCROACHES WITHIN TWO FEET OF THE TRAVEL WAY THE LANE SHOULD BE CLOSED, AND THE NOTE SHOULD ALSO INDICATE THAT ANY ADDITIONAL LANE CLOSURES NOT INDICATED IN THE DRAWINGS REQUIRES ALDOT APPROVAL PRIOR TO THE LANE BEING CLOSED.
12. THE PERMIT IS NOT WITHIN ANY UPCOMING CONSTRUCTION PROJECTS.
13. THERE ARE NO ALDOT FIBER NEAR THE WORK SHOWN ON THE PLANS.
14. ALL CONTRACTORS WILL ADHERE TO OSHA STANDARDS.
15. CALL BEFORE YOU DIG: 811
16. ALL MANHOLES, VALVE BOXES, HANDHOLES AND CLEANOUTS SHALL BE MOUNTED FLUSH WITH EXISTING GROUND OR FINISH GRADE.
17. ALL WATER AND GAS METERS MUST BE INSTALLED OFF ALDOT RIGHT OF WAY.
18. ALL MANHOLES, VALVE BOXES, HANDHOLES AND CLEANOUTS SHALL MEET OR EXCEED AN HS-20 LOAD NO TRENCH OR EXCAVATION SHALL BE LEFT OPEN OVERNIGHT OR UNATTENDED ON ROW UNLESS PROPERLY PROTECTED.
TRENCHES AND EXCAVATION MUST BE FILLED, FENCED, COVERED, OR BARRICADED WHEN UNATTENDED.
19. A SPECIAL AGREEMENT PERMIT IS NEEDED FOR UTILITY WORK THAT IS ASSOCIATED WITH AN ONGOING HIGHWAY/INTERSTATE PROJECT AND A LETTER FROM THE CONTRACTOR IF THE PERMIT WILL INVOLVE AN ACTIVE PROJECT.

IF THE INSTALLATION OF A UTILITY INVOLVES THE OPEN CUTTING OF ASPHALT OR CONCRETE DRIVES IT MUST BE INDICATED ON THE PERMIT DRAWINGS AND PERMISSION FROM THE OWNER(S) OF THE DRIVES MUST BE OBTAINED AND PROVIDED BEFORE A PERMIT REQUIRING THE OPEN-CUTTING OF PAVED DRIVEWAYS WILL BE CONSIDERED FOR APPROVAL.

THE ON-SITE REPRESENTATIVE(S) WILL HAVE ON HAND, AT ALL TIMES:
1. APPROVED PERMIT AND PLANS 2. TRAFFIC CONTROL PLAN 3. EROSION CONTROL PLAN

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EROSION CONTROL NOTES:

1. TEMPORARY EROSION CONTROL DEVICES SHALL BE OBSERVED BY THE OWNER (OR OWNER'S REPRESENTATIVE) ON A PERIODIC BASIS, BUT NOT LESS THAN ONCE PER MONTH, AND THE GRADING CONTRACTOR SHALL MAKE ANY NECESSARY ADJUSTMENTS/REPAIRS AS REQUESTED BY THE OWNER.
2. THE MEASURES SHOWN ON THE PLANS ARE INTENDED FOR CONTROL DURING SITE CLEARING AND GRADING. ADDITIONAL MEASURES MAY BE REQUIRED AS SITE CONDITIONS CHANGE DURING CONSTRUCTION. ADDITIONAL MEASURES REQUIRED FOR COMPLIANCE SHALL BE INCLUDED IN BASE PRICING.
3. COORDINATE SEDIMENTATIONS AND EROSION CONTROL MEASURES WITH THE CLEARING AND GRUBBING OPERATION. THESE ACTIVITIES MUST OCCUR IN THE PROPER SEQUENCE IN RELATION TO ONE ANOTHER.
4. THE CONTRACTOR WILL INSTALL AND MAINTAIN THE EROSION AND SEDIMENT CONTROL MEASURES (BOTH TEMPORARY AND PERMANENT) AS A CONTINUING PROGRAM UNTIL THE SITE WORK IS COMPLETE AND THE SITE IS STABILIZED. THIS INCLUDES, BUT IS NOT LIMITED TO, REPAIRS OF DAMAGE FROM STORMS, REGULAR MAINTENANCE, AND REMOVAL / DISPOSAL OF ACCUMULATED SILT, SILT FENCES AND OTHER EROSION CONTROL DEVICES SHOULD BE INSPECTED AFTER EVERY SIGNIFICANT RAIN EVENT.
5. ALL EROSION CONTROL MEASURES COMPROMISED BY SEDIMENT BUILDUP, INCLUDING RIP RAP, SILT FENCE, HAY DAMS, CHECKS, OR OTHER DEVICES WILL BE REPAIRED OR REPLACED AS NECESSARY AT NO ADDITIONAL COST TO THE OWNER.
6. ANY PIPE, CREEK, OR OTHER STORM DRAINAGE FEATURE SHOWING EVIDENCE OF SEDIMENT ACCUMULATION SHALL BE CLEANED OUT. THE SEDIMENT REMOVED SHALL BE DISPOSED OF IN A LOCATION APPROVED BY THE OWNER OR HIS REPRESENTATIVE.
7. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND PROPER DISPOSAL OF SILT/SEDIMENT (IF NOT REUSABLE ON-SITE) AND SHALL REMOVE ANY SILT/SEDIMENT BEYOND THE PROPERTY RESULTING FROM CONSTRUCTION OPERATIONS.
8. DO NOT DEPOSIT WASTE, LOOSE SOIL OR OTHER MATERIALS IN LIVE STREAMS, SWALES OR DRAINAGE WAYS, EXCEPT AS APPROPRIATE FOR EROSION CONTROL (E.G. LOG AND BRUSH CHECKS).
9. AFTER THE EROSION ACTIVITY HAS STABILIZED, THE CONTRACTOR IS RESPONSIBLE FOR REMOVING THE TEMPORARY EROSION CONTROL DEVICES AT THE DIRECTION OF THE OWNER AND CLEANING UP AND DRESSING THE AREA TO THE SATISFACTION OF THE OWNER.
10. SILT FENCES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE ERECTED OPPOSITE ERODABLE AREAS SUCH AS NEWLY GRADED FILL SLOPES AND ADJACENT TO STREAMS AND CHANNELS.
11. IN FLAT AREAS, SILT FENCES SHOULD BE CONSTRUCTED IN THE SHAPE OF A HORSESHOE, WHENEVER POSSIBLE, SO AS TO AID IN PONDING AND TO FACILITATE SEDIMENTATION.
12. SILT FENCING OR OTHER APPROPRIATE EROSION CONTROL MEASURES AS DIRECTED ON THE PLANS SHALL BE PLACED AT THE DOWNSTREAM EDGE OF ALL DISTURBED AREAS.
13. HAY BALES ARE TEMPORARY EROSION CONTROL DEVICES THAT SHALL BE USED IN CONJUNCTION WITH OTHER EROSION CONTROL DEVICES. BALES MAY BE EITHER HAY OR STRAW CONTAINING FIVE (5) CUBIC FEET OF MATERIAL WEIGHING NOT LESS THAN 35 POUNDS AND SECURED WITH TWO STAKES AS SHOWN IN THE HAY BALE DETAIL.
14. ALL STORM SEWER INLETS IN DISTURBED AREAS OR IN OTHER AREAS SUBJECT TO POTENTIAL INFLOW OF SEDIMENT SHALL BE PROTECTED AT A MINIMUM WITH WATTLES AND SILT FENCE.
15. ADDITIONAL SILT FENCES, WATTLES OR CHECK DAMS MAY BE REQUIRED TO CONTROL SILTING OR EROSION AS CONSTRUCTION PROGRESSES AND SHALL BE INCLUDED IN PRICING.
16. ALL DISTURBED AREAS THAT WILL REMAIN INACTIVE FOR MORE THAN 13 DAYS MUST BE SEEDED AND MULCHED.
17. AS NECESSARY, ON-SITE PROTECTION IN ADDITION TO THE ABOVE MUST BE PROVIDED THAT WILL PREVENT SILT FROM LEAVING THE PROJECT CONFINES DUE TO EXTREME WEATHER CONDITIONS OR ACCIDENTS.
18. ANY DISTURBANCE OF SOIL AND VEGETATION OUTSIDE THE LIMITS OF THE CLEARING LINE WILL NOT BE PERMITTED UNDER ANY CONDITION. IF DISTURBANCE OCCURS, IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REMEDIATE THE AREA AT NO ADDITIONAL COST TO THE OWNER.
19. PREVENT RUN-ON AND RUN-OFF FROM SOIL PILES BY SURROUNDING PILE WITH WATTLES AND/OR SILT FENCE.
20. PREVENT AND CONTROL SOIL EROSION AND GULLYING WITHIN THE PROPERTY COVERED BY CONTRACT AND THE ADJACENT PROPERTIES AS A RESULT OF CONSTRUCTION.
21. CONSTRUCT ROADSIDE DITCHES AS REQUIRED DURING ROAD CONSTRUCTION TO ALLOW STORM RUNOFF TO DRAIN.
22. ALL CONSTRUCTION STREAM CROSSINGS SHALL HAVE A 24" DIAMETER PIPE (OR LARGER, AS SUGGESTED BY THE CONSULTANT) INSTALLED TO CONVEY RUNOFF. THE AREA WHERE THE ROAD CROSSES THE STREAM SHALL BE RIP-RAPPED AS REQUIRED TO PREVENT SEDIMENT WASH-OFF FROM THE ROAD.
23. AN ACCESS ROUTE SUFFICIENT TO ALLOW THE USE OF APPROPRIATE MAINTENANCE EQUIPMENT SHALL BE EXTENDED TO EACH STRUCTURAL EROSION CONTROL DEVICE.
24. THE CONTRACTOR IS RESPONSIBLE FOR PROPER COLLECTION, STORAGE, AND DISPOSAL OF SOLID AND SANITARY WASTES. DISPOSAL OF THESE WASTES SHALL BE OFF-SITE IN AN APPROPRIATELY PERMITTED FACILITY.
25. THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER ON-SITE HANDLING USE, STORAGE AND DISPOSAL OF PAINTS, SOLVENTS, CHEMICALS, PESTICIDES, HERBICIDES, FERTILIZERS, OILS, GREASE, FUEL, AND OTHER HAZARDOUS MATERIAL TO REDUCE EXPOSURE AND CONTAMINATION OF SOILS, STREAMS, CHANNELS, AND STORM WATER RUNOFF.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF DUST AND DIRT RISING AND SCATTERING IN THE AIR DURING CONSTRUCTION AND SHALL PROVIDE WATER SPRINKLING OR OTHER WITH ALL GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
27. THE CONTRACTOR MUST REVIEW AND MAINTAIN A COPY OF THE NPDES PERMIT COMPLETE WITH ALL CONDITIONS, ATTACHMENTS, EXHIBITS, AND PERMIT MODIFICATIONS IN GOOD CONDITION AT THE CONSTRUCTION SITE. THE COMPLETE PERMIT MUST BE AVAILABLE FOR REVIEW UPON REQUEST.
28. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DUST CONTROL ON SITE. THE USE OF MOTOR OILS AND OTHER PETROLEUM BASED TOXIC LIQUIDS FOR DUST SUPPRESSION OPERATIONS IS PROHIBITED.

EROSION & SEDIMENT CONTROL CONSTRUCTION SEQUENCE:

1. INSTALL CONSTRUCTION ENTRANCES WITH CRUSHED AGGREGATE BASE COURSE AT ALL LOCATIONS WHERE CONSTRUCTION TRAFFIC WILL BE ENTERING AND EXITING THE SITE. CONSTRUCTION ENTRANCE USED FOR REMOVAL OF ONSITE MATERIALS SHALL EXTEND TO THE LOADING AREA, BUT IN NO CASE SHALL ANY CONSTRUCTION ENTRANCE BE LESS THAN 50 FEET IN LENGTH OR 6" IN DEPTH. WIDTH SHALL NOT BE LESS THAN 15 FEET.
2. INSTALL SEDIMENT TRAPS (IF ANY ARE INDICATED ON THE PLANS).
3. GRADE IN DRAINAGE SWALES AS NECESSARY TO DIRECT DRAINAGE FROM DISTURBED AREAS TO SEDIMENT TRAPS OR PROTECTED INLETS.
4. INSTALL SILT FENCES AT INDICATED LOCATIONS. INSTALL STRAW WATTLES AND GRAVEL BAG FILTERS AT STORM SEWER STRUCTURES AS THEY ARE CONSTRUCTED.
5. MULCH, LIME, FERTILIZE, SEED, SOD AND/OR STRAW ALL DISTURBED AREAS IMMEDIATELY FOLLOWING FINAL GRADING. CONTRACTOR SHALL COORDINATE BETWEEN THE EROSION CONTROL PLAN AND LANDSCAPE PLAN AS NECESSARY.
6. WASH DOWN CONSTRUCTION ENTRANCES AS NECESSARY TO LIMIT MUD AND DEBRIS BEING CARRIED ONTO ADJACENT ROADS. DRAINAGE FROM CONSTRUCTION ENTRANCE SHALL BE GRADED TO DRAIN TO SILT FENCES OR OTHER EROSION CONTROL MEASURES.
7. FOLLOWING COMPLETION OF PAVEMENT, STORM SYSTEM, AND MULCHING AND SEEDING ACTIVITIES; FLUSH OR CLEAN ALL SEDIMENT FROM STORM PIPE SYSTEM.
8. WHEN CONSTRUCTION IS COMPLETE AND UPON APPROVAL OF THE LOCAL GOVERNING AGENCY; REMOVE SILT FENCES AND GRAVEL BAG FILTERS, SPREAD AND GRADE COLLECTED MATERIALS, AND MULCH, LIME, FERTILIZE, SEED AND STRAW.
9. REMOVE SEDIMENT FROM DITCHES (PROPERLY DISPOSE OF IF OFFSITE) AND REGRADE TO DEPTH AND SIZE SHOWN ON THE GRADING PLAN. SPREAD AND GRADE COLLECTED MATERIALS, AND SEED.
10. REMOVE SEDIMENT TRAPS, AND SEED DISTURBED AREA.
11. SEE ADEM CONSTRUCTION BEST MANAGEMENT PRACTICES (CBMPP) PLANS FOR ADDITIONAL INFORMATION RELATED TO ADEM PERMITTED SITES. THE REQUIREMENTS AND RECOMMENDATIONS IN THE CBMPP ARE TO BE FOLLOWED TO KEEP THE PROJECT CONFORMANCE WITH THE SITE'S ADEM NPDES PERMIT.
12. ALL EROSION CONTROL DEVICES USED BY THE CONTRACTOR MUST MEET OR EXCEED REQUIREMENTS FOUND IN THE ALABAMA HANDBOOK FOR EROSION CONTROL, SEDIMENT CONTROL, AND STORMWATER MANAGEMENT ON CONSTRUCTION SITES AND URBAN AREAS.

PAVEMENT CONSTRUCTION GENERAL NOTES

1. ALDOT, LATEST EDITION, SHALL MEAN ALABAMA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, LATEST EDITION.
2. CRUSHED AGGREGATE BASE COURSE PLANT MIXED SHALL BE PLACED IN ACCORDANCE WITH SECTION 301, ALDOT, LATEST EDITION. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 825, TYPE B. 100% COMPACTION.
3. PORTLAND CEMENT CONCRETE PAVEMENT SHALL BE PLACED IN ACCORDANCE WITH SECTION 450, ALDOT, LATEST EDITION.
4. BITUMINOUS CONCRETE BINDER LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424-B, ALDOT, LATEST EDITION.
5. BITUMINOUS CONCRETE WEARING SURFACE LAYER SHALL BE PLACED IN ACCORDANCE WITH SECTION 424-A, ALDOT, LATEST EDITION.
6. THE SITE SHALL BE CLEARED AND ALL UNSUITABLE MATERIALS REMOVED PRIOR TO PLACING AND COMPACTING ENGINEERED FILL.
7. ALL SUBGRADES SHALL BE CLEARED AND GRUBBED, SCARIFIED TO A DEPTH OF 6", AND THEN RECOMPACTED TO 100% OF THE MAXIMUM DRY DENSITY, PLUS OR MINUS 2% OF OPTIMUM MOISTURE (ASTM-D6798).
8. IN ROCK EXCAVATION, A MINIMUM OF 1 FOOT OF SOIL SHALL BE PLACED OVER ROCK PRIOR TO PLACEMENT OF BASE MATERIAL.
9. CONCRETE WHEEL STOPS ARE TO BE PRECAST 2500 PSI MIN. COMPRESSIVE STRENGTH CONCRETE, 5"HX9"WX72"L. WHEEL STOPS ARE TO BE SECURELY ATTACHED TO PAVEMENT WITH A MINIMUM OF 2-3/8"X18" GALVANIZED STEEL DOWELS EMBEDDED IN WHEEL STOPS 11" FROM ENDS, AND FIRMLY BONDED TO WHEEL STOPS AND PAVEMENT.
10. PAVEMENT MARKING PAINT SHALL BE ALKYD-RESIN TYPE, READY-MIXED, COMPLYING WITH FS TT-P-115, TYPE I, AASHTO M-248, TYPE N, OR LATEX WATER-BASE EMULSION, READY-MIXED, COMPLYING WITH FS TT-P-1952. APPLY PAVEMENT MARKING PAINT WITH MECHANICAL EQUIPMENT, PER THE MANUFACTURES RECOMMENDATIONS TO PRODUCE PAVEMENT MARKINGS OF DIMENSIONS INDICATED ON THE PLANS WITH UNIFORM, STRAIGHT EDGES, AND A MINIMUM WET FILM THICKNESS OF 15 MILS (0.4MM).
11. PAINTING OF PAVEMENT MARKINGS SHALL NOT BEGIN UNTIL PAVEMENT HAS ENDURED ADEQUATE CURING TIME AND UNTIL THE PAVEMENT SURFACE HAS BEEN POWER BROOMED AND HAND SWEPT AS NECESSARY TO REMOVE LOOSE MATERIAL AND SOIL.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR CLEANING DIRT AND DEBRIS FROM ADJOINING STREETS DURING CONSTRUCTION, ANY DAMAGE TO ADJOINING AND EXISTING STREETS MUST BE REPAIRED BY THE CONTRACTOR DURING CONSTRUCTION, AT NO ADDITIONAL COST TO THE OWNER.
13. UNLESS NOTED OTHERWISE, ALL PAVEMENT CUTS SHALL BE REPAIRED WITH MATERIAL AND DEPTHS IN KIND TO THAT REMOVED AND SHALL MEET PATCHING REQUIREMENTS OF THE MUNICIPALITY.
14. TEMPORARY AND PERMANENT PATCHING SHALL MEET THE REQUIREMENTS OF THE GOVERNING ENTITY.

REINFORCED CONCRETE NOTES

1. ALL CONCRETE SHALL BE AIR ENTRAINED 4000 PSI MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS, (CLASS "A."), UNLESS NOTED OTHERWISE ON THE PLANS OR REQUIRED OTHERWISE BY GOVERNING ENTITY.
2. ALL CONSTRUCTION JOINTS SHALL BE CONSTRUCTED WITH CONTINUOUS SHEAR KEYS IN ACCORDANCE WITH THE SHEAR KEY DETAIL ON THE PLANS.
3. ALL REINFORCING STEEL GOVERNED BY THE CIVIL ENGINEERING DRAWINGS, SHALL BE GRADE 60 DEFORMED BARS, AND SHALL CONFORM TO STM A615, FOR BILLET STEEL (UNLESS NOTED OTHERWISE).
4. LAP SPLICES AND BAR EMBEDMENT SHALL BE IN ACCORDANCE WITH THE TABLE ON THE PLANS.
5. CONCRETE AIR CONTENT AND SLUMP SHALL BE IN ACCORDANCE WITH THE TABLE ON THE PLANS.
6. ALL REINFORCING BARS SHALL BE SHOP BENT IN ACCORDANCE WITH THE TABLE ON THE PLANS. HEATING OF REINFORCING BARS TO BEND THEM, OR STRAIGHTEN THEM WILL NOT BE ALLOWED.
7. ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185, SMOOTH FABRIC WITH AN ASTM YIELD STRENGTH OF 65,000 PSI.

SHEAR KEY DETAIL

	WALL (D) THICKNESS	NOMINAL KEY SIZE	X	Y	Z
	4" – 7"	2" X 2"	1 1/2"	1"	1 1/2"
	8" – 13"	2" X 4"	3 1/2"	3"	1 1/2"
	14" – 20"	2" X 6"	5 1/2"	5"	1 1/2"
	SEE DRAWINGS	2" X 8"	7 1/4"	6 3/4"	1 1/2"
		2" X 10"	9 1/4"	8 3/4"	1 1/2"
		4" X 4"	3 1/2"	3"	3 1/2"
		4" X 6"	5 1/2"	5"	3 1/2"
		4" X 8"	7 1/4"	6 3/4"	3 1/2"
		4" X 10"	9 1/4"	8 3/4"	3 1/2"
		4" X 12"	11 1/4"	10 3/4"	3 1/2"

SLUMP TABLE

TYPE OF CONSTRUCTION	SLUMP (INCHES) MAX.	SLUMP (INCHES) MIN.
REINFORCED FOOTINGS AND SLABS	3	1
REINFORCED WALLS AND PAVEMENTS	4	1
BACKFILL CONCRETE	6	3

CONCRETE AIR CONTENT TABLE

NOMINAL MAXIMUM SIZE COARSE AGGREGATE (INCHES)	TOTAL AIR CONTENT PERCENT BY VOLUME
3/4	4 TO 8
1	3.5 TO 6.5
1 1/2	3 TO 6

BAR BEND TABLE AND EMBEDMENT TABLE

BAR SIZE(d)	#3	#4	#5	#6	#7	#8	#9	#10
DIAMETER	0.375"	0.5"	0.625"	0.75"	0.875"	1.0"	1.128"	1.27"
D	2.25"	3.0"	3.75"	4.50"	5.25"	6.0"	9.02"	10.16"
A	6"	8"	10"	12"	14"	16"	19"	22"
J	3"	4"	5"	6"	7"	8"	11.25"	12.75"
LAP SPACE LENGTH	16"	16"	18"	26"	35"	45"	57"	73"
EMBEDMENT LENGIH	12"	12"	14"	20"	27"	35"	44"	56"

SCHOEL

BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.6166

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1221

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166

SCHOEL.COM

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
△1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

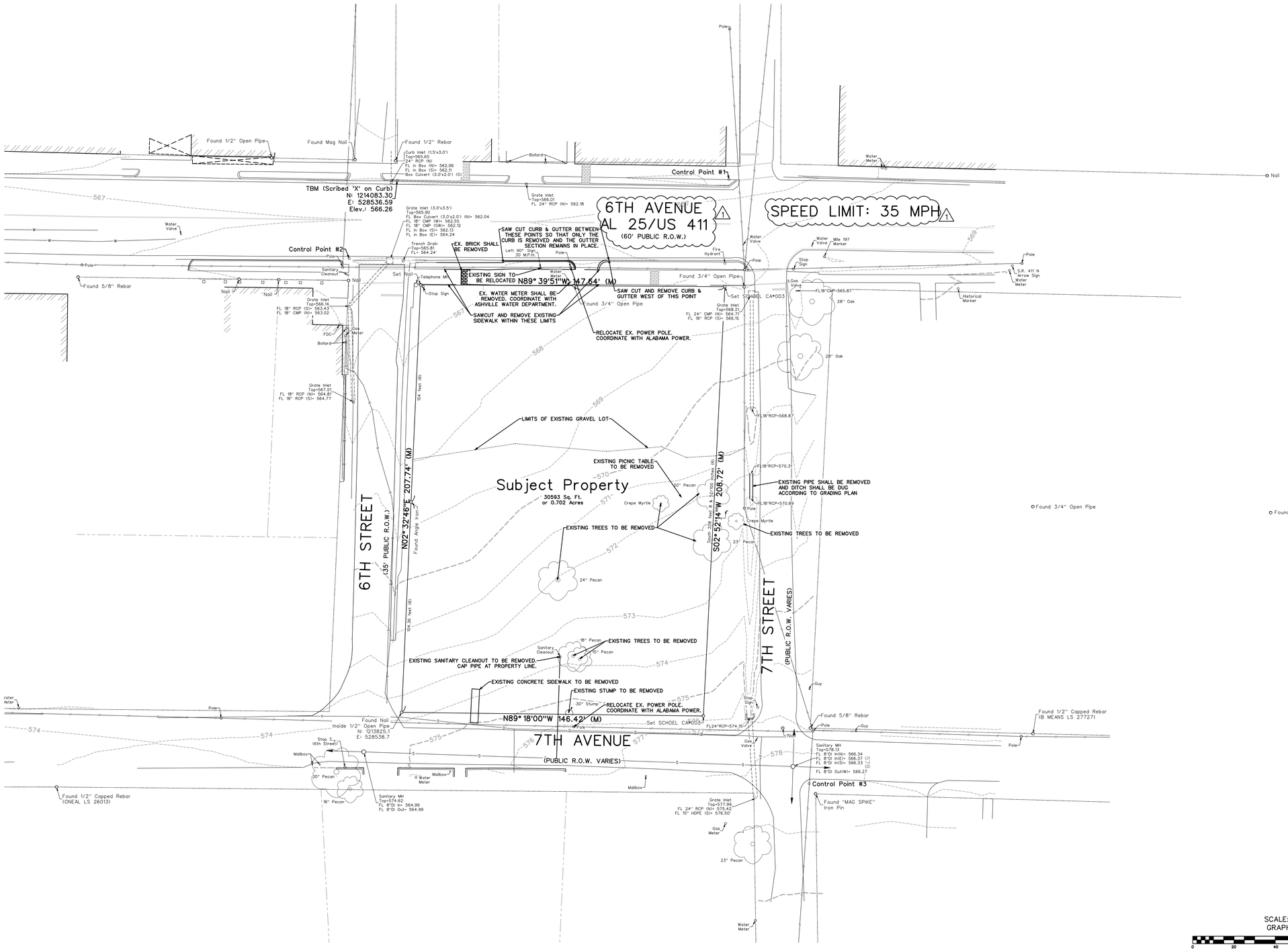
ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

No. 23333
1-23-2026
BRETT WAYNE WISEMAN

GENERAL NOTES

C1



SCALE: 1" = 20'
GRAPHIC SCALE
0 20 40 50 75 100

UNDERGROUND UTILITIES SHOWN ON THIS MAP ARE FROM LOCAL UTILITY COMPANY RECORDS AND SHOULD BE FIELD VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

JOB SAFETY IS NOT THE RESPONSIBILITY OF THE ENGINEER. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION SITE SAFETY.

SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.6160

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6160

SCHOEL.COM

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
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222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

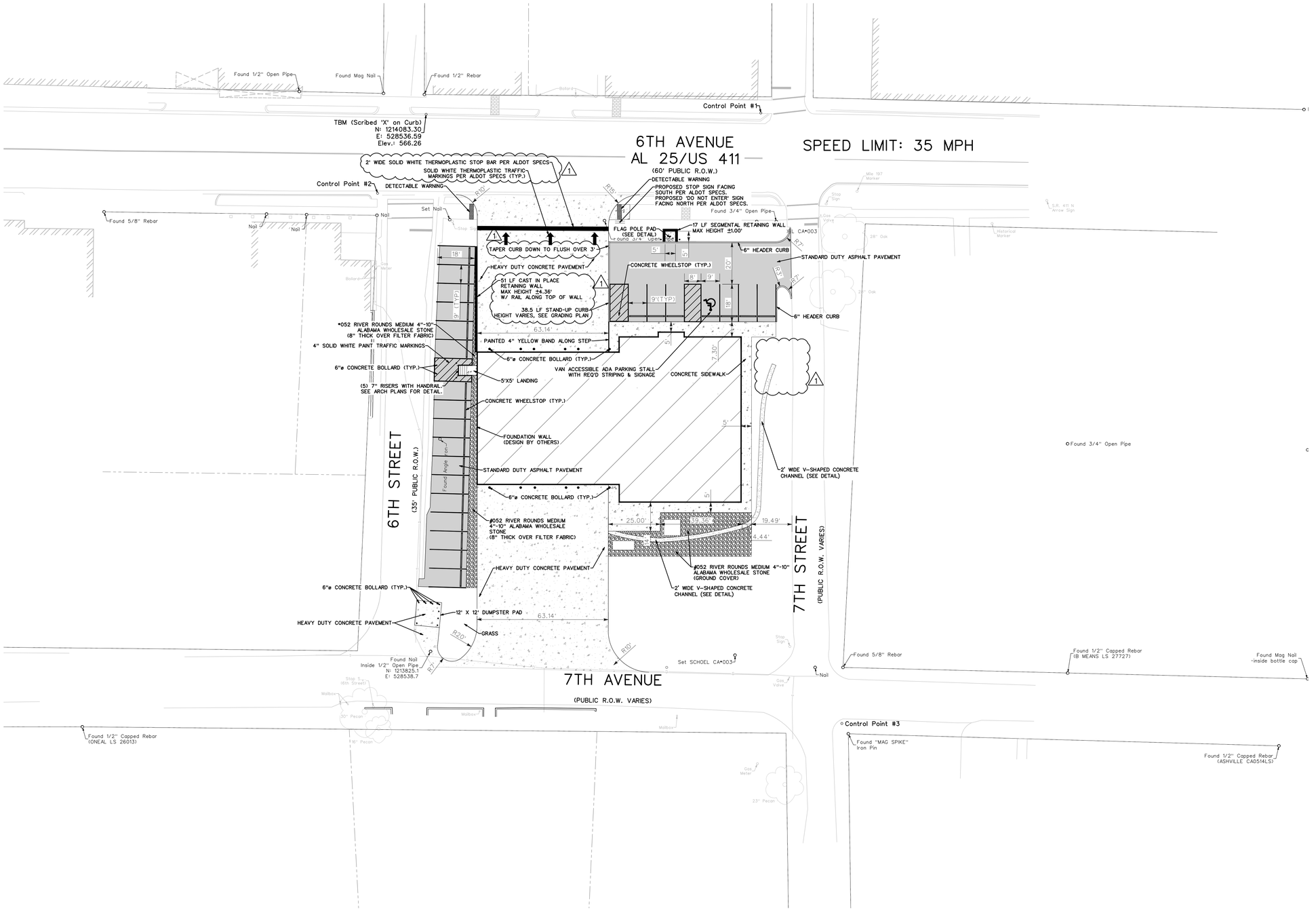
ALABAMA LICENSED No. 23333 PROFESSIONAL ENGINEER BRYANT WISEMAN 1-23-2026

DEMOLITION PLAN

C2

SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.5160
HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220
TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166
SCHOEL.COM

PROVIDED PARKING: 24 SPACES
ADA PARKING REQUIRED: 1 SPACE
ADA PARKING PROVIDED: 1 SPACE



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GRAPHIC SCALE
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Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
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222 7TH Avenue North
Ashville, AL 35953

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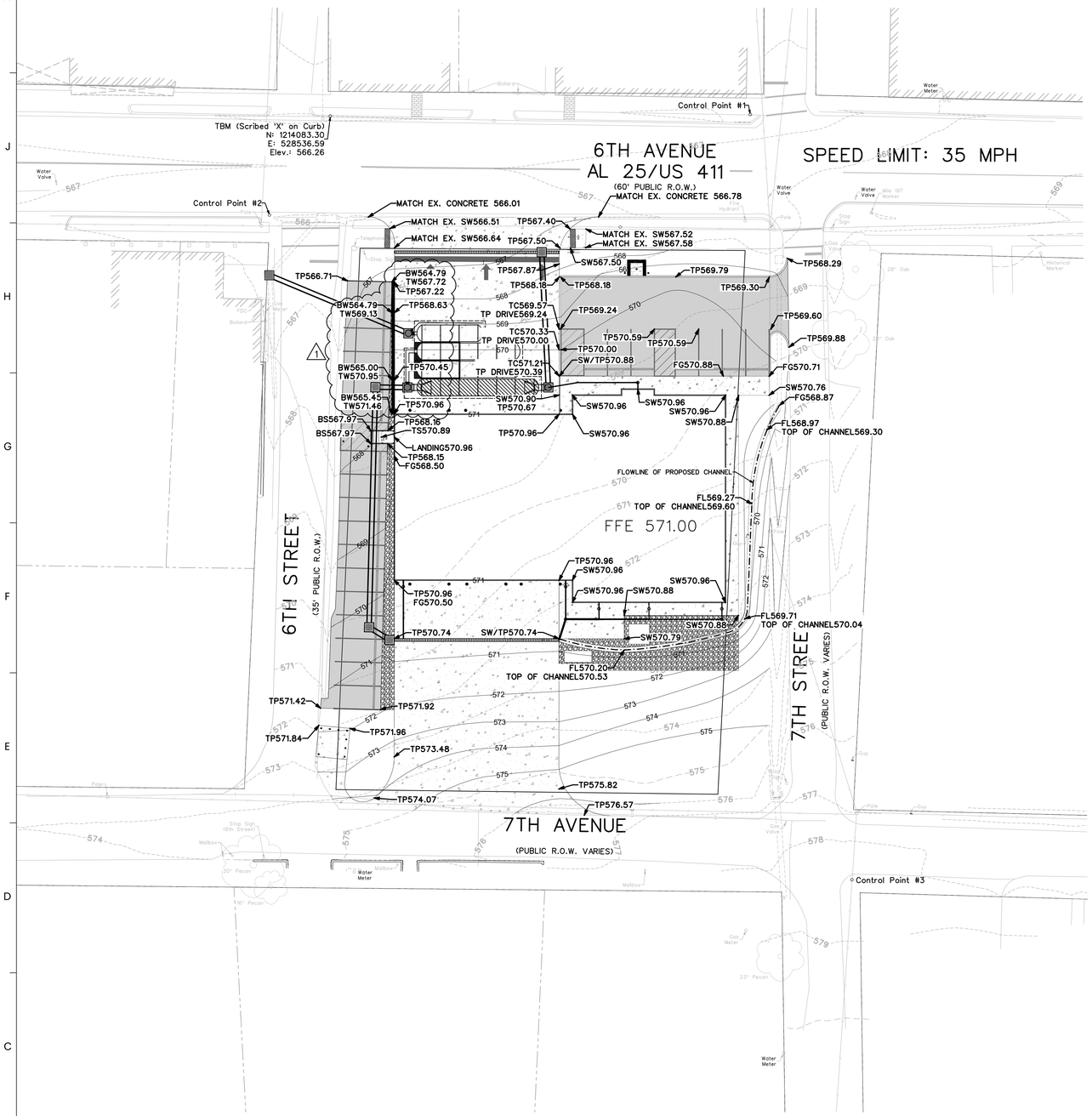
BRANDON WAYNE WISEMAN
LICENSED
No. 23333
PROFESSIONAL
1-23-2026
ENGINEER
ALABAMA

SITE PLAN

C3

GRADING PLAN



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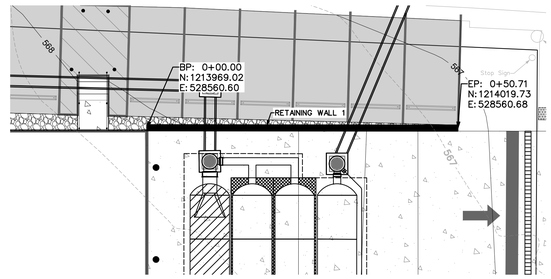
SPOT ELEVATION LEGEND

TP - TOP OF PAVEMENT
TC - TOP OF CURB
SW - SIDEWALK
FG - FINISHED GRADE
BS - BOTTOM OF STAIRS
TS - TOP OF STAIRS
TW - TOP OF RETAINING WALL
BW - BOTTOM OF RETAINING WALL (AT BOTTOM OF KEY OF FOOTING)
LP - LOW POINT
HP - HIGH POINT

WALL PLAN & PROFILE



SCALE: 1" = 10'
GRAPHIC SCALE
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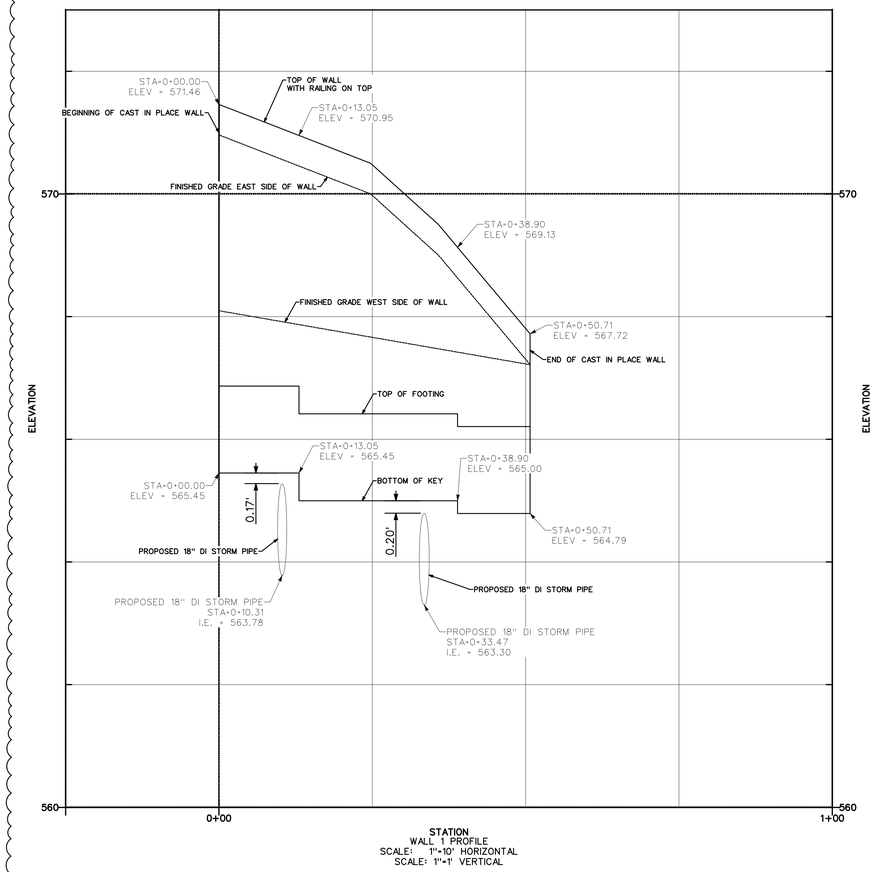

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SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.9100

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166

SCHOEL.COM

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

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CHECKED BY: B. WISEMAN

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Ashville, AL 35953

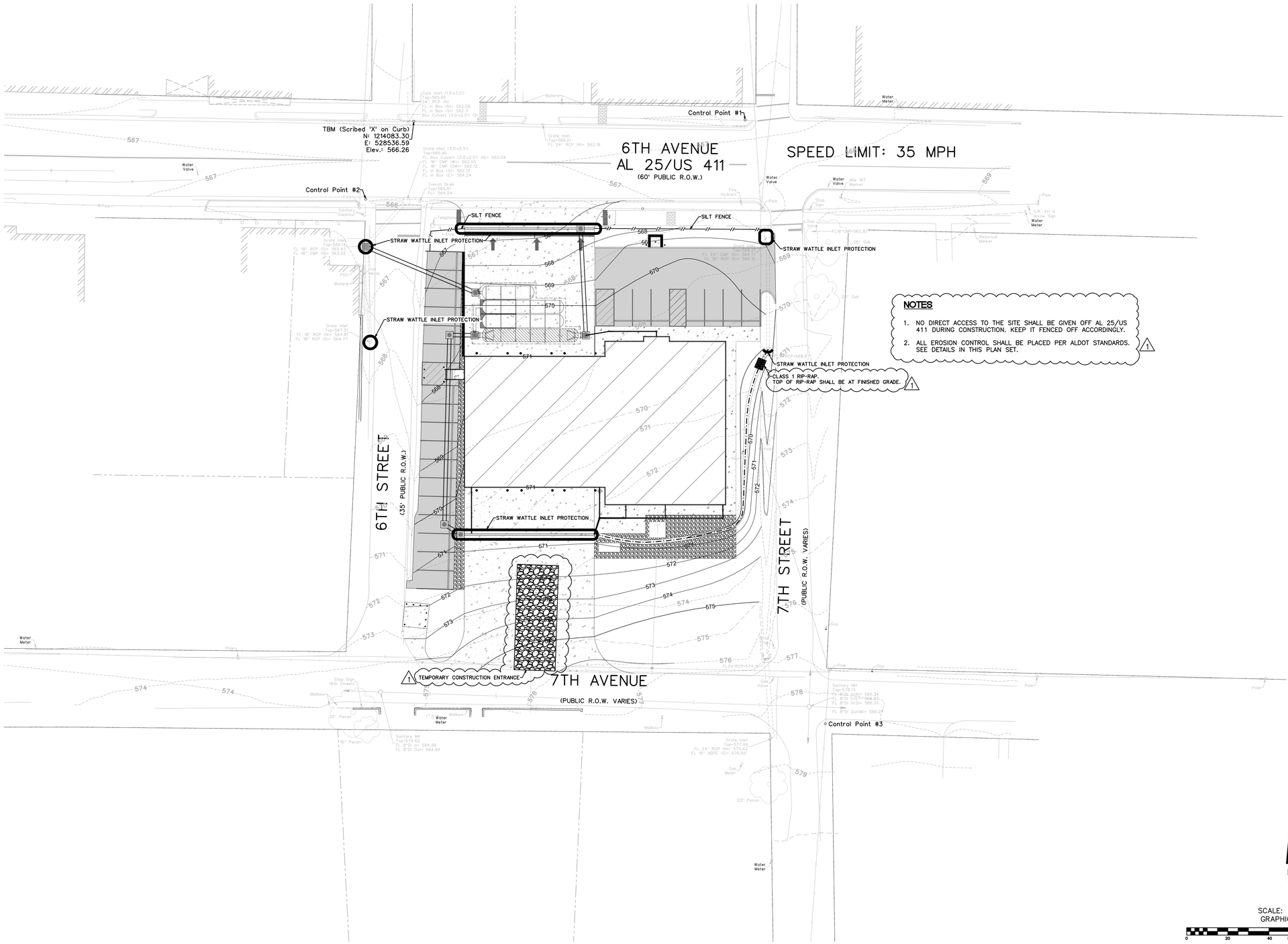
GMC # AHUN250003

BRIAN WAYNE WISEMAN
LICENSED
No. 23333
PROFESSIONAL
1-23-2026
ENGINEER
ALABAMA

GRADING PLAN

C4

SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.9100
HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220
TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166
SCHOEL.COM



NOTES

1. NO DIRECT ACCESS TO THE SITE SHALL BE GIVEN OFF AL 25/US 411 DURING CONSTRUCTION. KEEP IT FENCED OFF ACCORDINGLY.
2. ALL EROSION CONTROL SHALL BE PLACED PER ALDOT STANDARDS. SEE DETAILS IN THIS PLAN SET. 1

SCALE: 1" = 20'
GRAPHIC SCALE
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T 256.539.3431
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ALABAMA LICENSED No. 23333 PROFESSIONAL ENGINEER BRYNG WISEMAN 1-23-2026

EROSION CONTROL PLAN

C5

SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.6160

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
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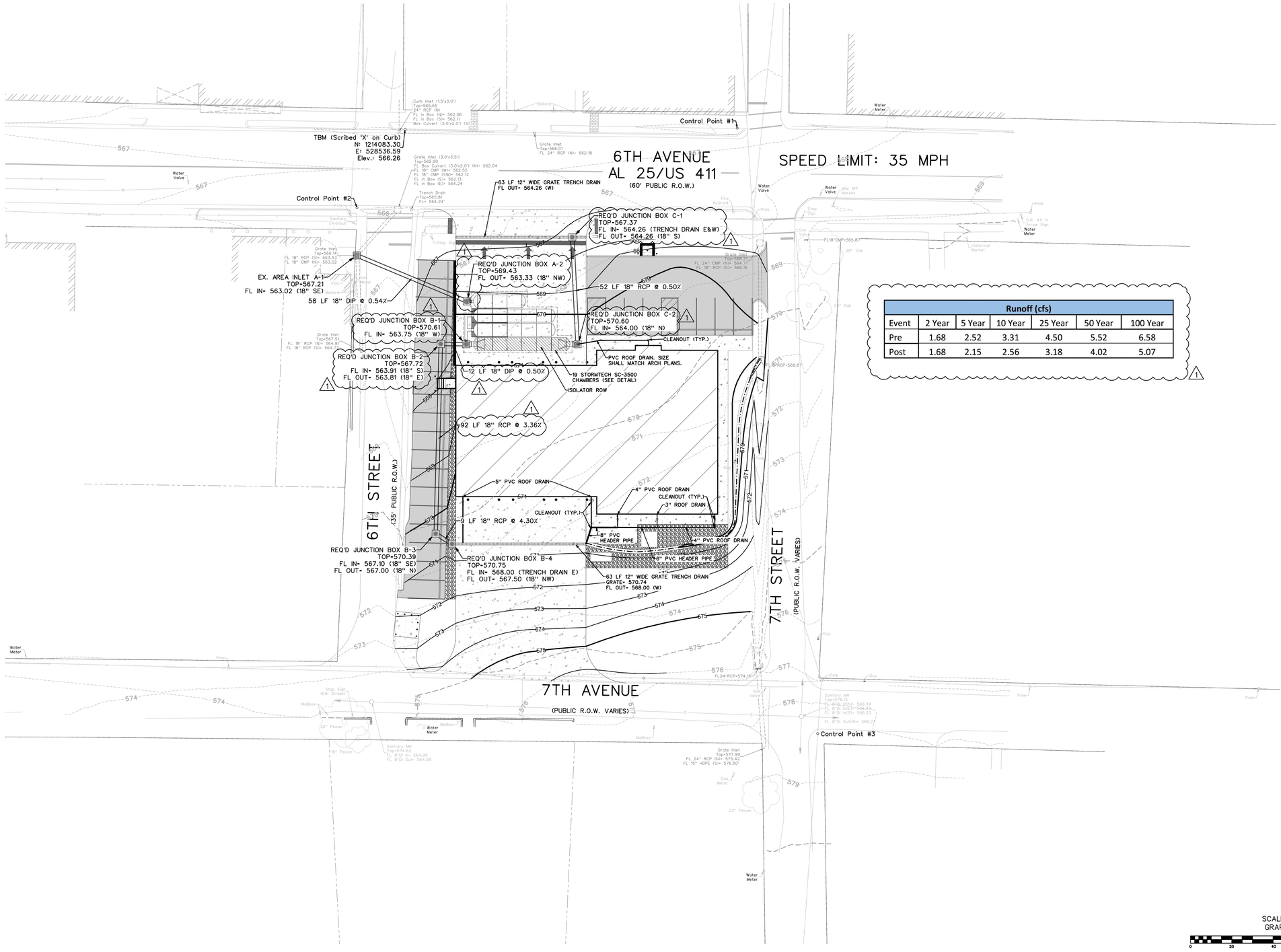

Runoff (cfs)						
Event	2 Year	5 Year	10 Year	25 Year	50 Year	100 Year
Pre	1.68	2.52	3.31	4.50	5.52	6.58
Post	1.68	2.15	2.56	3.18	4.02	5.07

SCALE: 1" = 20'
GRAPHIC SCALE
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LICENSED
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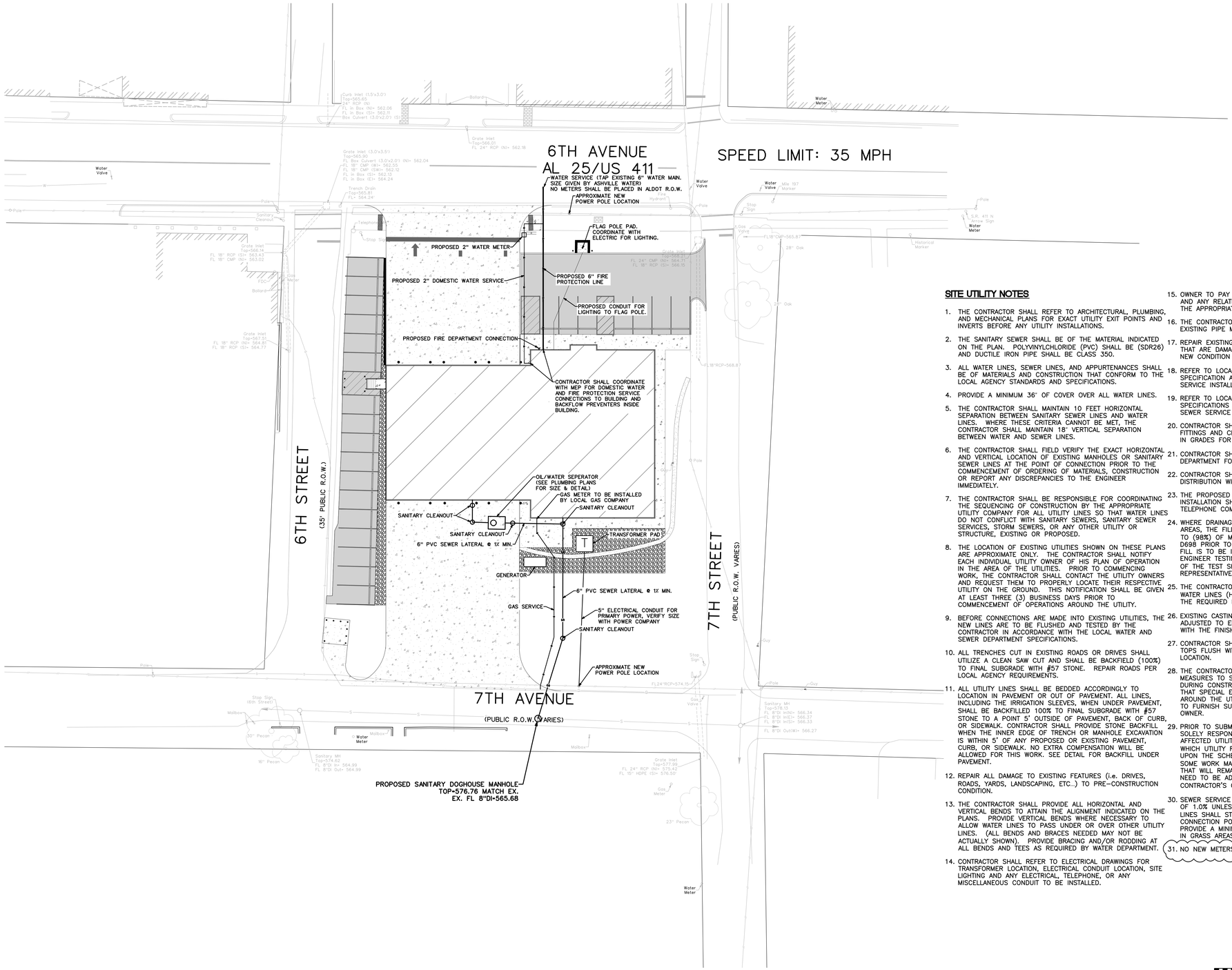
ENGINEER
1-23-2026

STORM PLAN

C6



SITE UTILITY NOTES

1. THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, PLUMBING, AND MECHANICAL PLANS FOR EXACT UTILITY EXIT POINTS AND INVERTS BEFORE ANY UTILITY INSTALLATIONS.
2. THE SANITARY SEWER SHALL BE OF THE MATERIAL INDICATED ON THE PLAN. POLYVINYLCHLORIDE (PVC) SHALL BE (SDR26) AND DUCTILE IRON PIPE SHALL BE CLASS 350.
3. ALL WATER LINES, SEWER LINES, AND APPURTENANCES SHALL BE OF MATERIALS AND CONSTRUCTION THAT CONFORM TO THE LOCAL AGENCY STANDARDS AND SPECIFICATIONS.
4. PROVIDE A MINIMUM 36" OF COVER OVER ALL WATER LINES.
5. THE CONTRACTOR SHALL MAINTAIN 10 FEET HORIZONTAL SEPARATION BETWEEN SANITARY SEWER LINES AND WATER LINES. WHERE THESE CRITERIA CANNOT BE MET, THE CONTRACTOR SHALL MAINTAIN 18" VERTICAL SEPARATION BETWEEN WATER AND SEWER LINES.
6. THE CONTRACTOR SHALL FIELD VERIFY THE EXACT HORIZONTAL AND VERTICAL LOCATION OF EXISTING MANHOLES OR SANITARY SEWER LINES AT THE POINT OF CONNECTION PRIOR TO THE COMMENCEMENT OF ORDERING OF MATERIALS, CONSTRUCTION OR REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE SEQUENCING OF CONSTRUCTION BY THE APPROPRIATE UTILITY COMPANY FOR ALL UTILITY LINES SO THAT WATER LINES DO NOT CONFLICT WITH SANITARY SEWERS, SANITARY SEWER SERVICES, STORM SEWERS, OR ANY OTHER UTILITY OR STRUCTURE, EXISTING OR PROPOSED.
8. THE LOCATION OF EXISTING UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL NOTIFY EACH INDIVIDUAL UTILITY OWNER OF HIS PLAN OF OPERATION IN THE AREA OF THE UTILITIES. PRIOR TO COMMENCING WORK, THE CONTRACTOR SHALL CONTACT THE UTILITY OWNERS AND REQUEST THEM TO PROPERLY LOCATE THEIR RESPECTIVE UTILITY ON THE GROUND. THIS NOTIFICATION SHALL BE GIVEN AT LEAST THREE (3) BUSINESS DAYS PRIOR TO COMMENCEMENT OF OPERATIONS AROUND THE UTILITY.
9. BEFORE CONNECTIONS ARE MADE INTO EXISTING UTILITIES, THE NEW LINES ARE TO BE FLUSHED AND TESTED BY THE CONTRACTOR IN ACCORDANCE WITH THE LOCAL WATER AND SEWER DEPARTMENT SPECIFICATIONS.
10. ALL TRENCHES CUT IN EXISTING ROADS OR DRIVES SHALL UTILIZE A CLEAN SAW CUT AND SHALL BE BACKFIELD (100%) TO FINAL SUBGRADE WITH #57 STONE. REPAIR ROADS PER LOCAL AGENCY REQUIREMENTS.
11. ALL UTILITY LINES SHALL BE BEDDED ACCORDINGLY TO LOCATION IN PAVEMENT OR OUT OF PAVEMENT. ALL LINES, INCLUDING THE IRRIGATION SLEEVES, WHEN UNDER PAVEMENT, SHALL BE BACKFILLED 100% TO FINAL SUBGRADE WITH #57 STONE TO A POINT 5' OUTSIDE OF PAVEMENT, BACK OF CURB, OR SIDEWALK. CONTRACTOR SHALL PROVIDE STONE BACKFILL WHEN THE INNER EDGE OF TRENCH OR MANHOLE EXCAVATION IS WITHIN 5' OF ANY PROPOSED OR EXISTING PAVEMENT, CURB, OR SIDEWALK. NO EXTRA COMPENSATION WILL BE ALLOWED FOR THIS WORK. SEE DETAIL FOR BACKFILL UNDER PAVEMENT.
12. REPAIR ALL DAMAGE TO EXISTING FEATURES (i.e. DRIVES, ROADS, YARDS, LANDSCAPING, ETC..) TO PRE-CONSTRUCTION CONDITION.
13. THE CONTRACTOR SHALL PROVIDE ALL HORIZONTAL AND VERTICAL BENDS TO ATTAIN THE ALIGNMENT INDICATED ON THE PLANS. PROVIDE VERTICAL BENDS WHERE NECESSARY TO ALLOW WATER LINES TO PASS UNDER OR OVER OTHER UTILITY LINES. (ALL BENDS AND BRACES NEEDED MAY NOT BE ACTUALLY SHOWN). PROVIDE BRACING AND/OR RODDING AT ALL BENDS AND TEES AS REQUIRED BY WATER DEPARTMENT.
14. CONTRACTOR SHALL REFER TO ELECTRICAL DRAWINGS FOR TRANSFORMER LOCATION, ELECTRICAL CONDUIT LOCATION, SITE LIGHTING AND ANY ELECTRICAL, TELEPHONE, OR ANY MISCELLANEOUS CONDUIT TO BE INSTALLED.
15. OWNER TO PAY FOR ANY AID-TO-CONSTRUCTION FOR UTILITIES AND ANY RELATED INSPECTION FEES FOR THESE SERVICES TO THE APPROPRIATE UTILITY AUTHORITY.
16. THE CONTRACTOR SHALL VERIFY REQUIRED PIPE LENGTHS. EXISTING PIPE MATERIAL AND SIZES AS SHOWN ON PLANS.
17. REPAIR EXISTING PAVEMENT, CURBS, WALKS, LANDSCAPING, ETC. THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES TO A LIKE NEW CONDITION AT NO ADDITIONAL COST TO THE OWNER.
18. REFER TO LOCAL AGENCY'S WATER DEPARTMENT FOR SPECIFICATION AND ILLUSTRATIONS OF TYPICAL DOMESTIC WATER SERVICE INSTALLATION.
19. REFER TO LOCAL AGENCY SANITARY SEWER DEPARTMENT FOR SPECIFICATIONS AND ILLUSTRATIONS OF TYPICAL SANITARY SEWER SERVICE INSTALLATION.
20. CONTRACTOR SHALL PROVIDE AND INSTALL ALL NECESSARY FITTINGS AND CLEANOUTS AT BENDS, JUNCTIONS, AND CHANGE IN GRADES FOR THE SANITARY SEWER SERVICE LINES.
21. CONTRACTOR SHALL COORDINATE LOCAL AGENCY'S GAS DEPARTMENT FOR GAS SERVICE LINE INSTALLATION.
22. CONTRACTOR SHALL COORDINATE ALL SITE PRIMARY POWER DISTRIBUTION WITH ALABAMA POWER PRIOR TO INSTALLATION.
23. THE PROPOSED TELEPHONE LINE CONSTRUCTION AND INSTALLATION SHALL BE COORDINATED WITH THE LOCAL TELEPHONE COMPANY BY THE CONTRACTOR.
24. WHERE DRAINAGE OR UTILITY LINES OCCUR IN PROPOSED FILL AREAS, THE FILL MATERIAL IS TO BE PLACED AND COMPACTED TO (98%) OF MAXIMUM DRY DENSITY ACCORDING TO ASTM D698 PRIOR TO INSTALLATION OF DRAINAGE OR UTILITY LINES. FILL IS TO BE INSPECTED BY A PROFESSIONAL GEOTECHNICAL ENGINEER TESTING FIRM EMPLOYED BY THE OWNER. RESULTS OF THE TEST SHALL BE FURNISHED TO THE OWNER'S REPRESENTATIVE. CONTRACTOR TO PAY FOR ANY RETESTING.
25. THE CONTRACTOR SHALL ADJUST THE ALIGNMENT OF THE WATER LINES (HORIZONTALLY AND/OR VERTICALLY) TO ALLOW THE REQUIRED BRACING AT BENDS AND TEES.
26. EXISTING CASTINGS LOCATED IN FILL/CUT AREAS SHALL BE ADJUSTED TO ENSURE THAT THE TOP OF CASTING IS FLUSH WITH THE FINISHED GRADE.
27. CONTRACTOR SHALL INSTALL ALL SANITARY SEWER CLEANOUT TOPS FLUSH WITH FINISHED GRADE AT THE CLEANOUT LOCATION.
28. THE CONTRACTOR WILL PROVIDE ALL NECESSARY PROTECTIVE MEASURES TO SAFEGUARD EXISTING UTILITIES FROM DAMAGE DURING CONSTRUCTION OF THIS PROJECT. IN THE EVENT THAT SPECIAL EQUIPMENT IS REQUIRED TO WORK OVER AND AROUND THE UTILITIES, THE CONTRACTOR WILL BE REQUIRED TO FURNISH SUCH EQUIPMENT AT NO ADDITIONAL COST TO THE OWNER.
29. PRIOR TO SUBMITTING HIS BID, THE CONTRACTOR WILL BE SOLELY RESPONSIBLE FOR CONTACTING OWNERS OF ALL AFFECTED UTILITIES IN ORDER TO DETERMINE THE EXTENT TO WHICH UTILITY RELOCATIONS AND/OR ADJUSTMENTS WILL HAVE UPON THE SCHEDULE OF WORK FOR THE PROJECT. WHILE SOME WORK MAY BE REQUIRED 'AROUND' UTILITY FACILITIES THAT WILL REMAIN IN PLACE, OTHER UTILITY FACILITIES MAY NEED TO BE ADJUSTED CONCURRENTLY WITH THE CONTRACTOR'S OPERATIONS.
30. SEWER SERVICE TO BE 6" DIAMETER PVC AT A MINIMUM SLOPE OF 1.0% UNLESS SHOWN OTHERWISE ON THE DRAWINGS. LINES SHALL START 5' BEYOND THE BUILDINGS. COORDINATE CONNECTION POINTS WITH THE BUILDING PLUMBING DRAWINGS. PROVIDE A MINIMUM 30" OF COVER OVER ALL SEWER SERVICES IN GRASS AREAS AND 36" OF COVER IN PAVED AREAS.
31. NO NEW METERS SHALL BE PLACED IN ALDOT R.O.W. (1)

SCALE: 1" = 20'
GRAPHIC SCALE
0 20 40 50 75 100

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SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.9100
HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220
TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166
SCHOEL.COM

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

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CHECKED BY: B. WISEMAN

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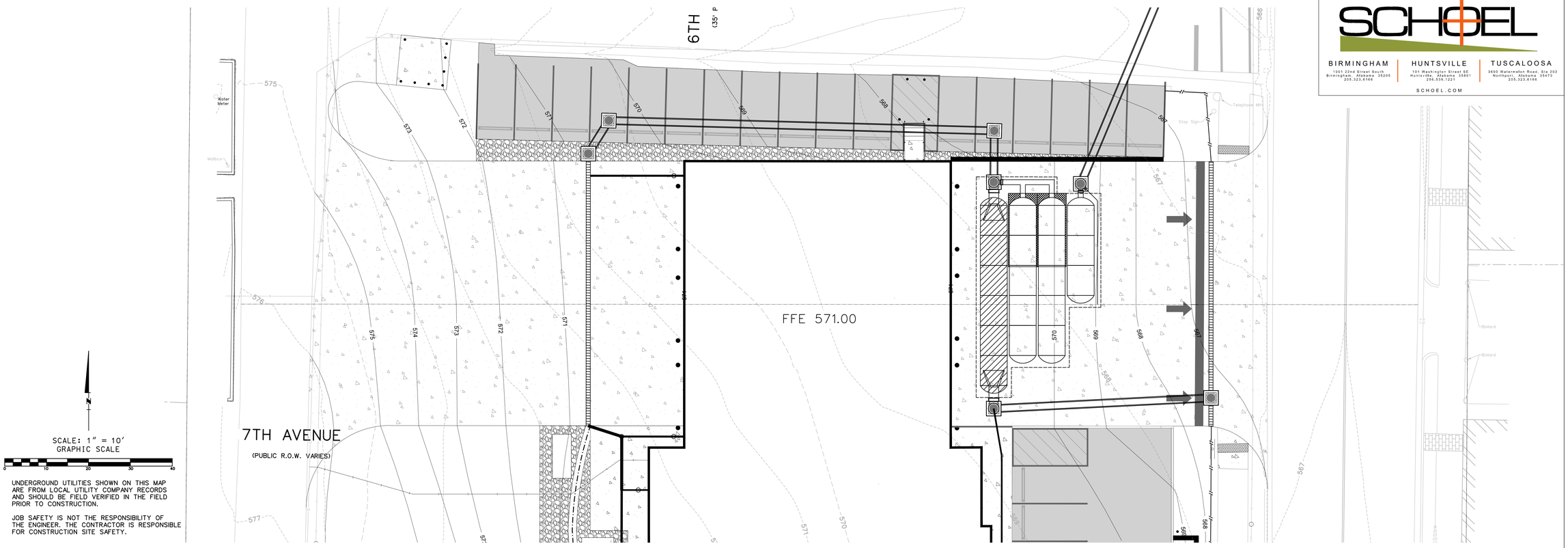
Ashville, AL 35953

GMC # AHUN250003

BRIAN WAYNE WISEMAN
LICENSED
PROFESSIONAL ENGINEER
No. 23333
PROFESSIONAL
-23-2025
ENGINEER
BRIAN WAYNE WISEMAN

UTILITY PLAN

C7



N

SCALE: 1" = 10'
GRAPHIC SCALE
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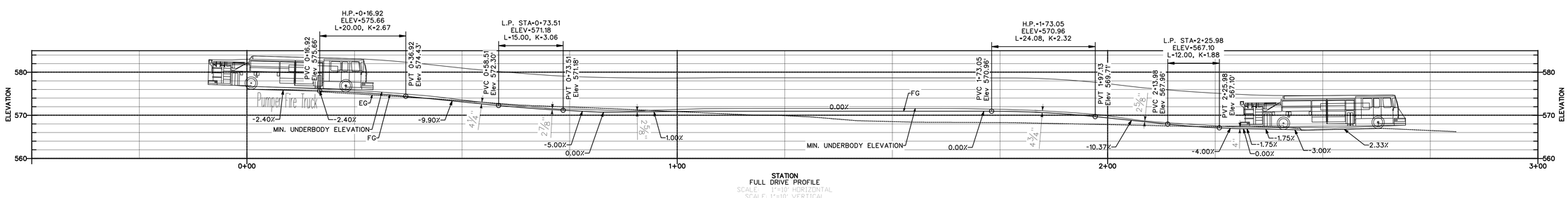

STATION
FULL DRIVE PROFILE
SCALE: 1"=10' HORIZONTAL
SCALE: 1"=10' VERTICAL

SCHOEL

BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.5160

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1220

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.223.6166

SCHOEL.COM

GMC

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T 256.539.3431
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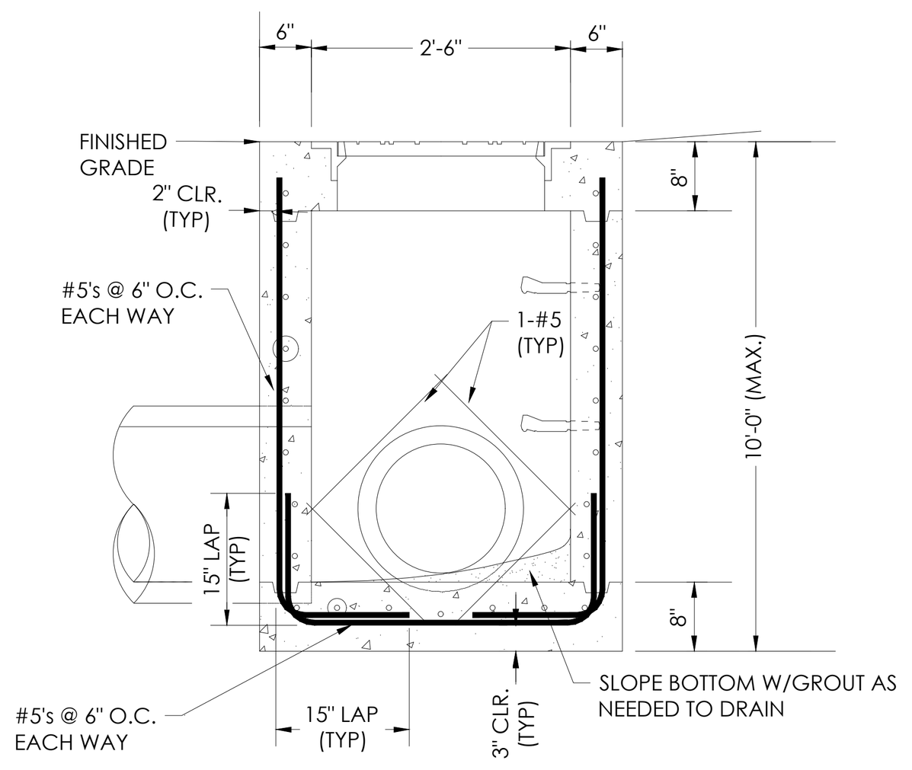
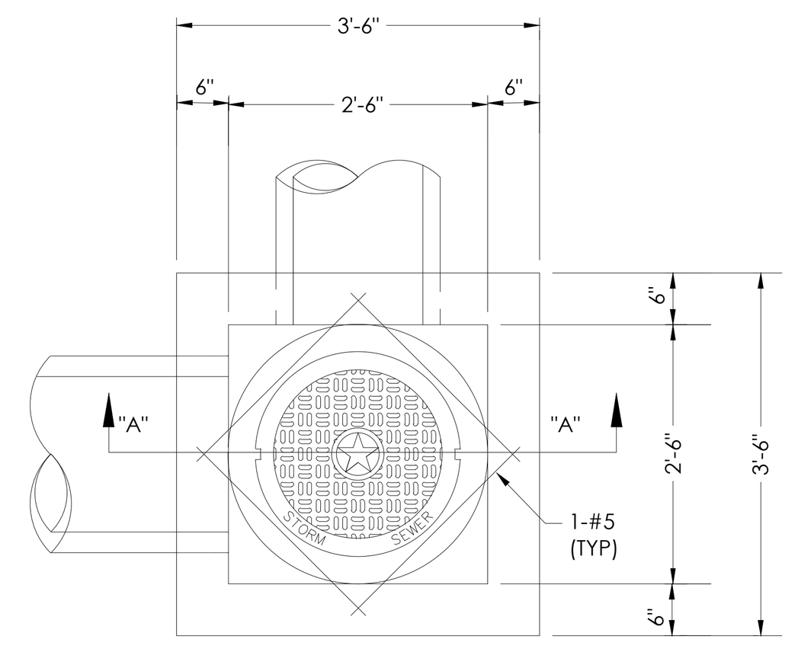
ALABAMA LICENSED No. 23333 PROFESSIONAL ENGINEER 1-23-2026 BRYNE WISEMAN

DRIVE PLAN & PROFILE

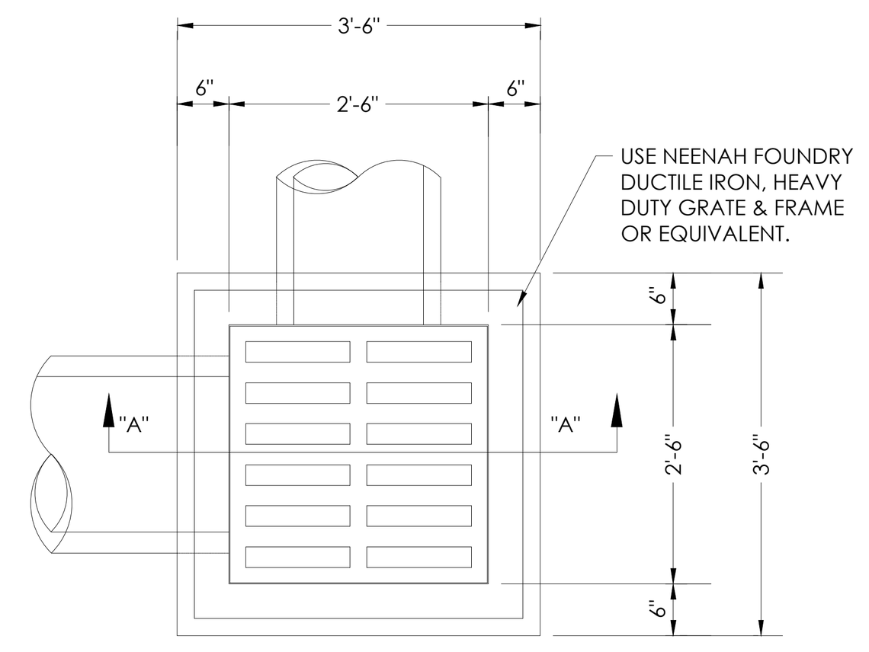
C8



SECTION "A"-"A"



PLAN - JUNCTION BOX

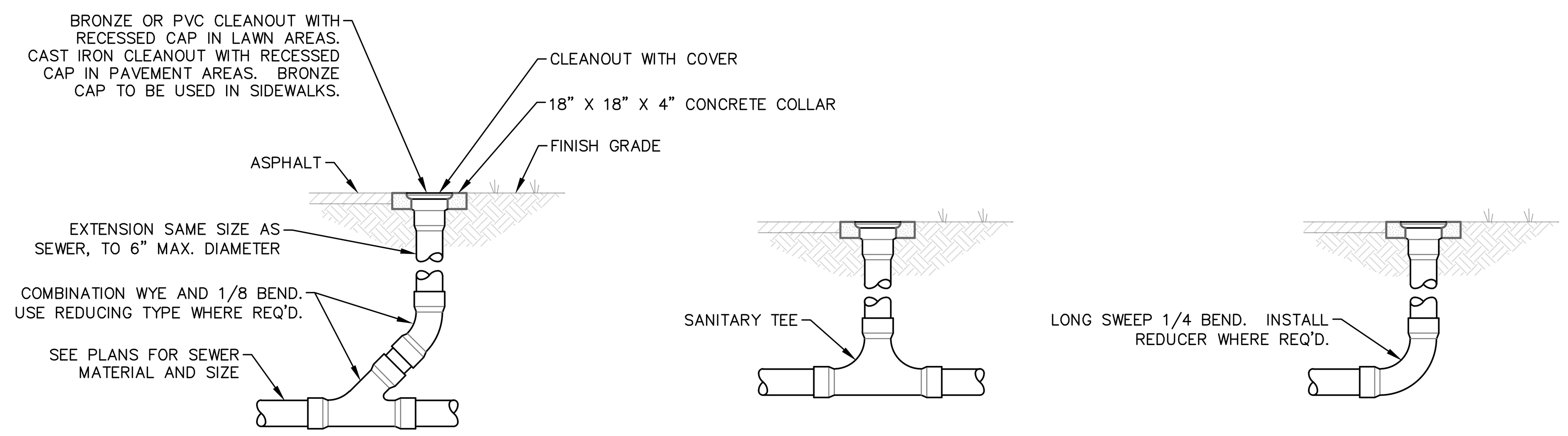


PLAN - AREA INLET

NOTES:
1. ALL CONCRETE SHALL DEVELOP A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI AT 28 DAYS (CLASS "A").
2. ALL REINFORCING SHALL BE GRADE 60 DEFORMED BARS, AND SHALL CONFORM TO THE REQ'TS OF THE STANDARD SPECIFICATIONS FOR BILLET STEEL (ASTM A-15), WITH DEFORMATIONS CONFORMING TO ASTM A-305.

JUNCTION BOX / AREA INLET (15"-24" PIPES)

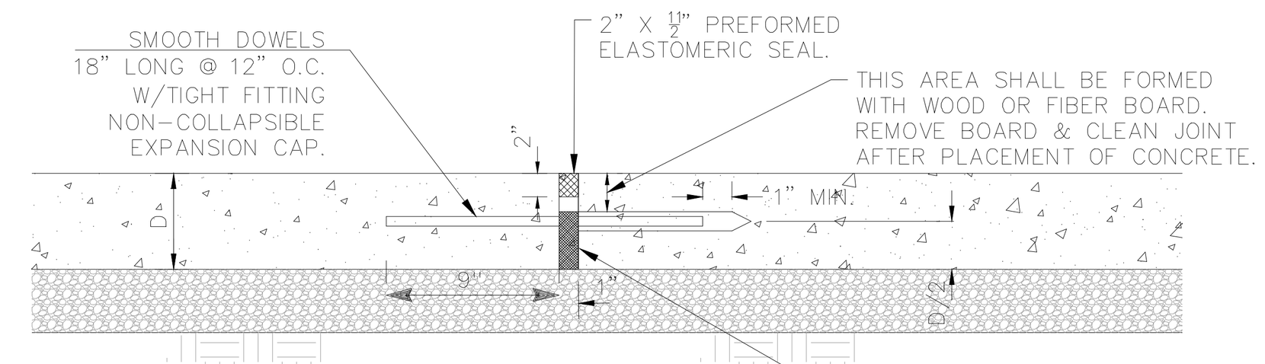
NOT TO SCALE



ONE-WAY TWO-WAY END-OF-LINE

CLEANOUTS

NO SCALE



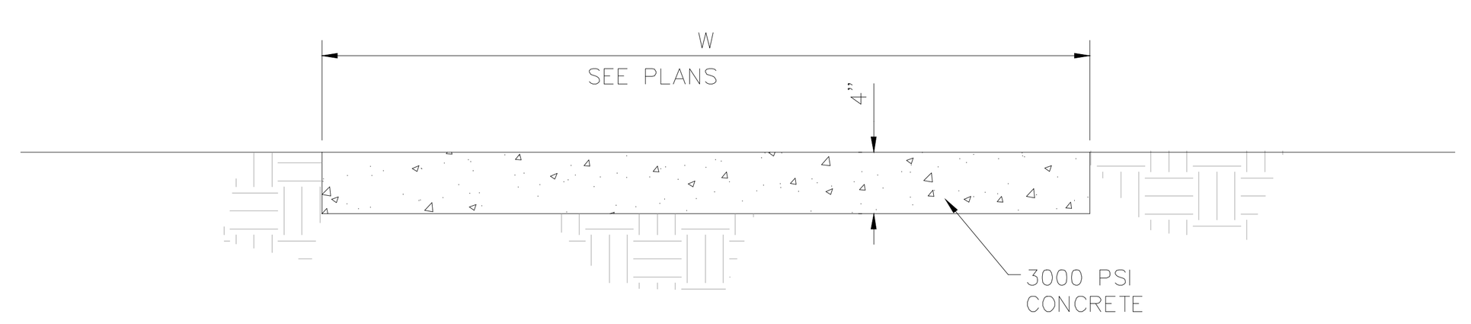
DOWELL DIAMETER						
D	5"	6"	7"	8"	9"	10"
ø	5/8"	3/4"	7/8"	1"	1 1/8"	1 1/4"

EXPASION JOINT DETAIL

NOT TO SCALE

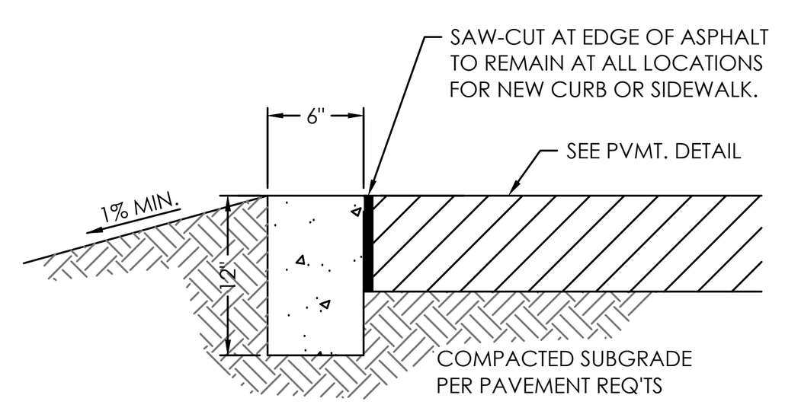
UNLESS EXPLICITLY INDICATED OTHERWISE:
1. CROSS SLOPE ON SIDEWALKS SHALL NOT EXCEED 2%.
2. HAND RAILING IS REQUIRED WHERE THE RUNNING SLOPE EXCEEDS 5%. (SEE ARCHITECTURAL FOR DETAILS)
3. LANDINGS ARE REQUIRED AT THE END OF SECTIONS EQUAL TO OR EXCEEDING 5%. THESE LANDINGS SHALL NOT EXCEED 2% SLOPE IN ANY DIRECTION.
4. RUNNING SLOPE SHALL NOT EXCEED 5% FOR ACCESSIBLE ROUTES.

NOTE: CONTRACTION JOINTS SHALL BE SPACED AT "W" (MAX) CENTER TO CENTER, AND SHALL BE FORMED USING PLASTIC OR HARDBOARD PREFORMED STRIPS (1/3 DEPTH OF SLAB) PLACED IN THE SIDEWALK AND CURB AT THE TIME OF CONSTRUCTION, OR BY SAWCUTTING THE SIDEWALK AND CURB TO 1/3 DEPTH WITHIN 12 HOURS AFTER CONSTRUCTION.



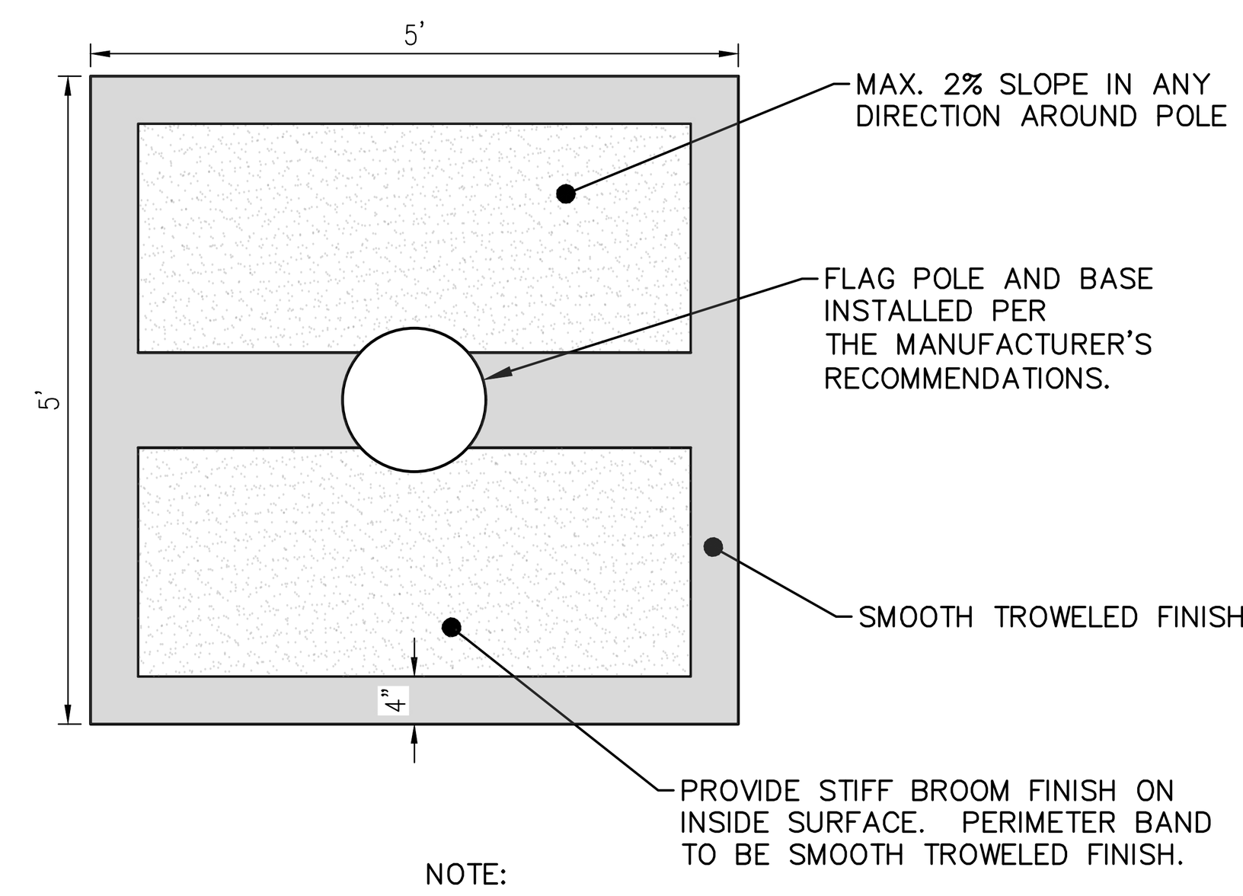
SIDEWALK DETAIL

NOT TO SCALE



HEADER CURB (6 X 12)"

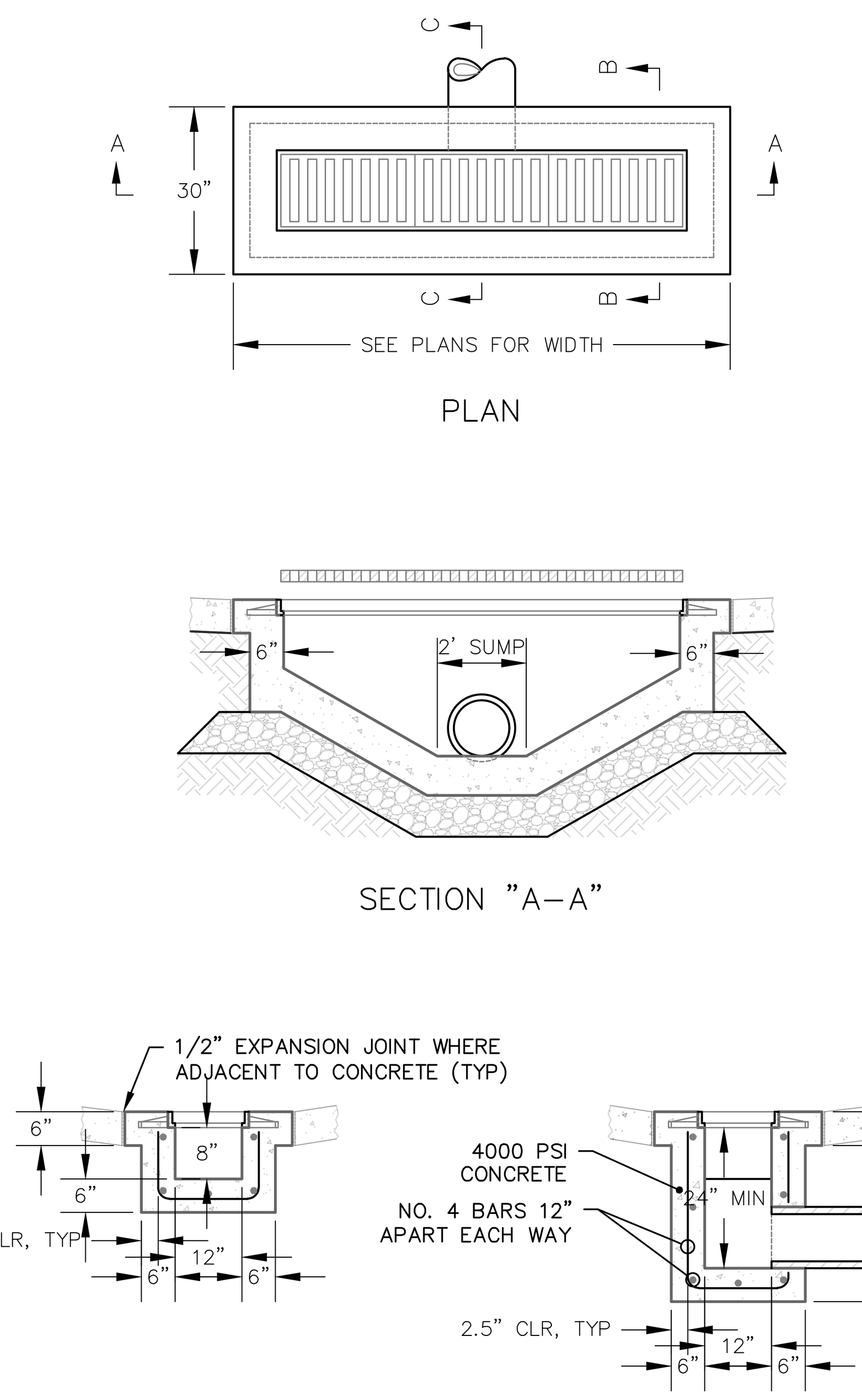
NOT TO SCALE



NOTE:
FLAGPOLE PAD CONSTRUCTION SHALL BE SIMILAR TO CONCRETE SIDEWALK DETAILED ELSEWHERE.

FLAG POLE PAD

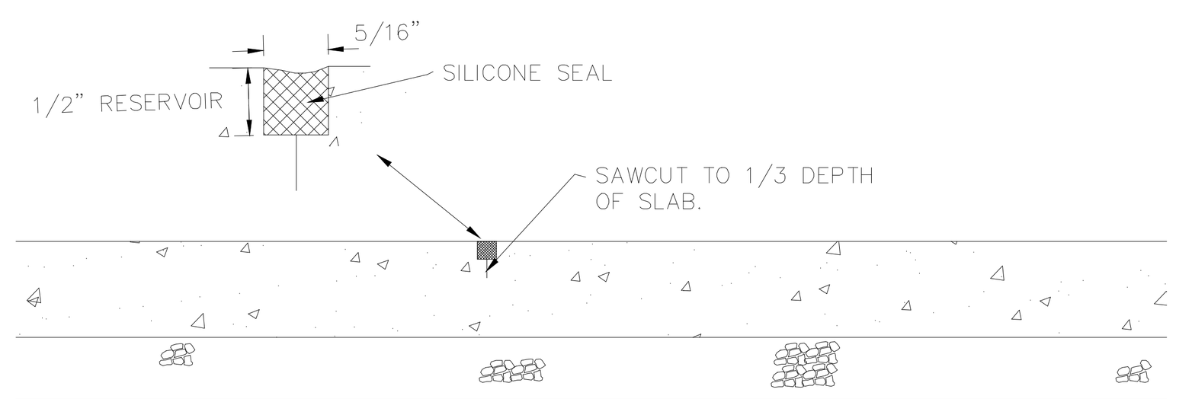
NO SCALE



NOTES:
1. SEE PLANS FOR CASTING AND INVERT ELEVATIONS.
2. COVER AND RAILS SHALL BE JOHN BOUCHARD No. 5849, TYPE "A" WITH No. 2 RAILS, OR APPROVED EQUAL.

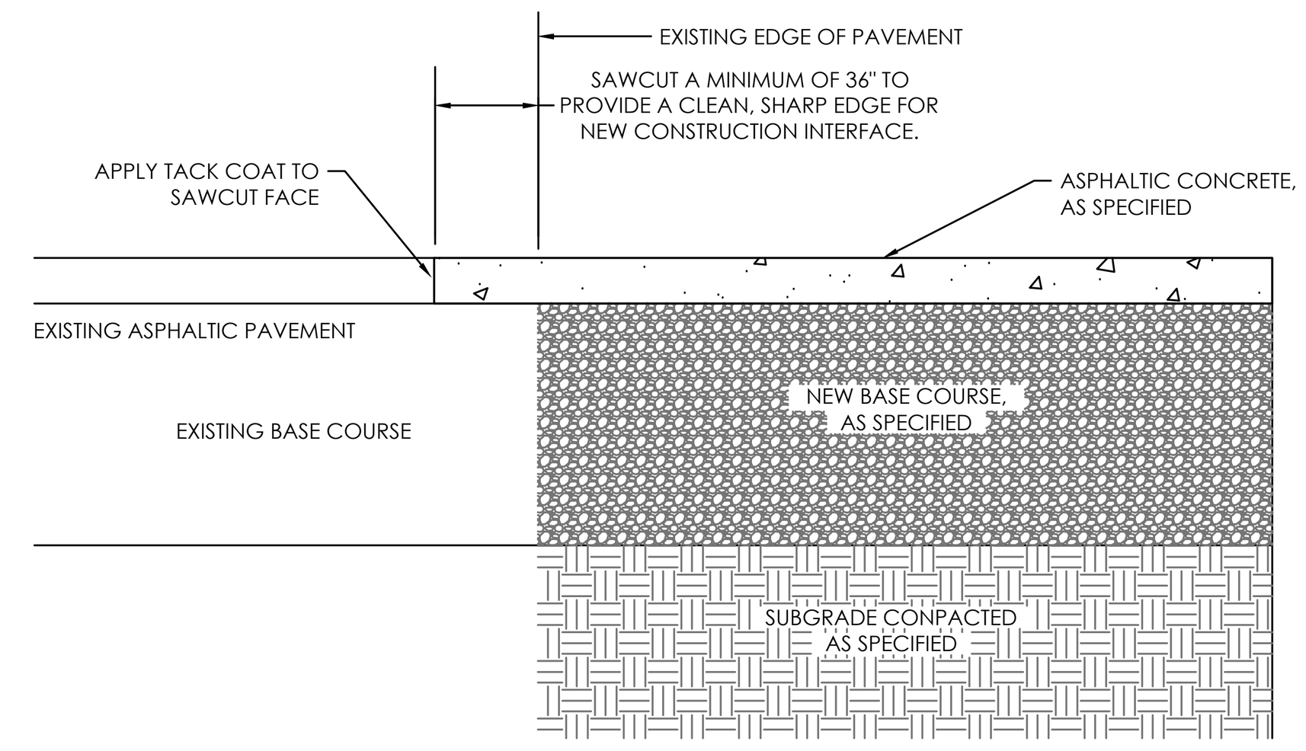
TRENCH DRAIN

NO SCALE



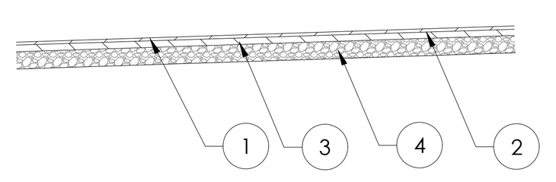
CONTRACTION JOINT DETAIL

NOT TO SCALE



NEW TO EXISTING INTERFACE

NOT TO SCALE

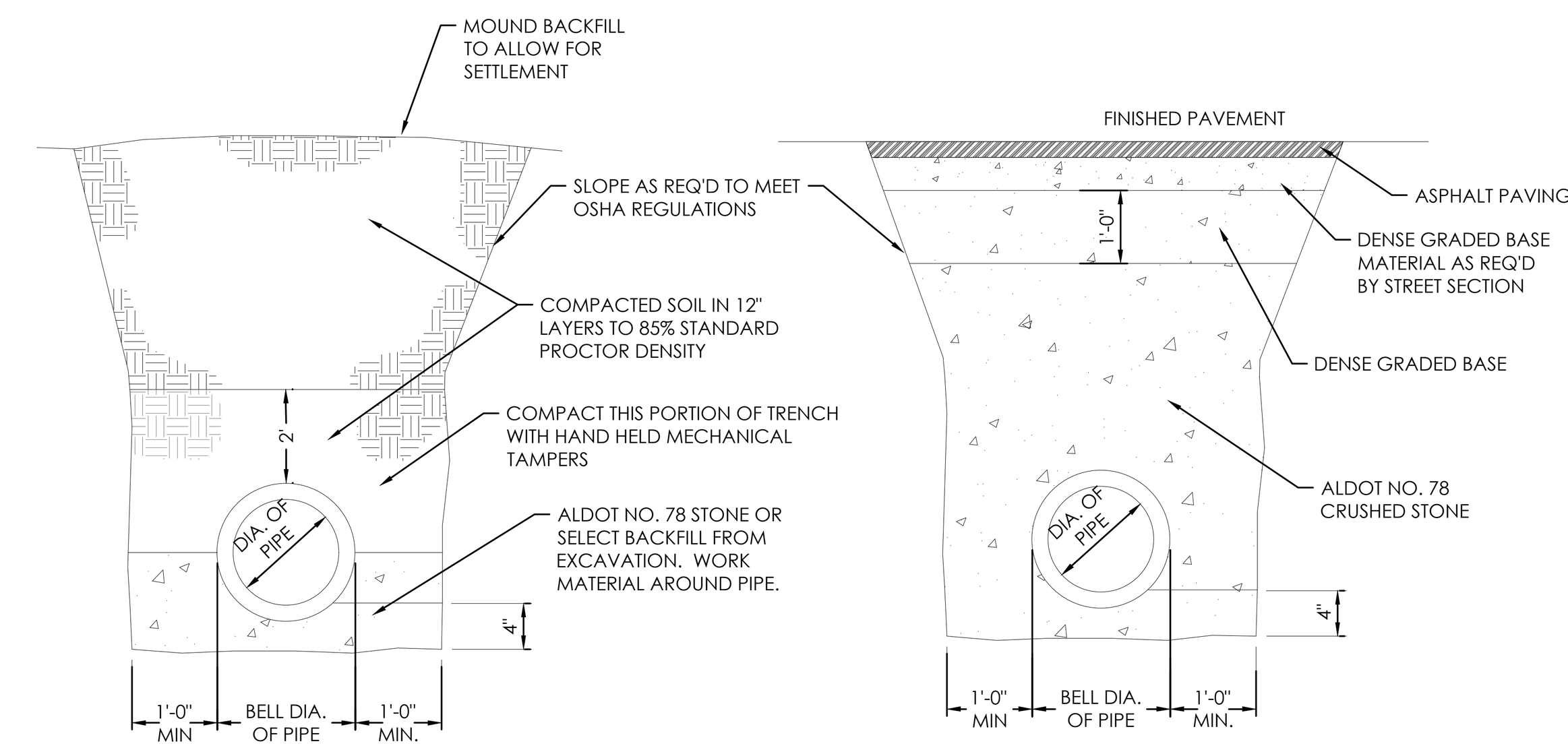


1. 112 LBS./S.Y. (1") HOT BITUMINOUS CONCRETE WEARING COURSE, ALDOT, REF. 424-A OF THE SPECIFICATIONS.
2. TACK COAT (ALDOT SECTION 405)
3. 224 LBS./S.Y. (2") HOT BITUMINOUS CONCRETE BINDER COURSE, ALDOT, REF. 424-B OF SPECIFICATIONS.
4. 6" LAYER OF DENSE GRADED LIMESTONE BASE COURSE ALDOT REF. 301 OF SPECIFICATIONS. ALL MATERIALS SHALL BE IN ACCORDANCE WITH SECTION 825, TYPE "B", COMPACTION TO 100% PROCTOR DENSITY.

TOP 6" OF SUBGRADE IS TO BE COMPACTED TO 100% PROCTOR DENSITY. BELOW TOP 6" IS TO BE COMPACTED TO 95% PROCTOR DENSITY AS DETERMINED BY AASHTO T-99 COMPACTION TEST. SEE PAVEMENT NOTES FOR ADDITIONAL INFORMATION.

STANDARD PAVEMENT SECTION

NOT TO SCALE

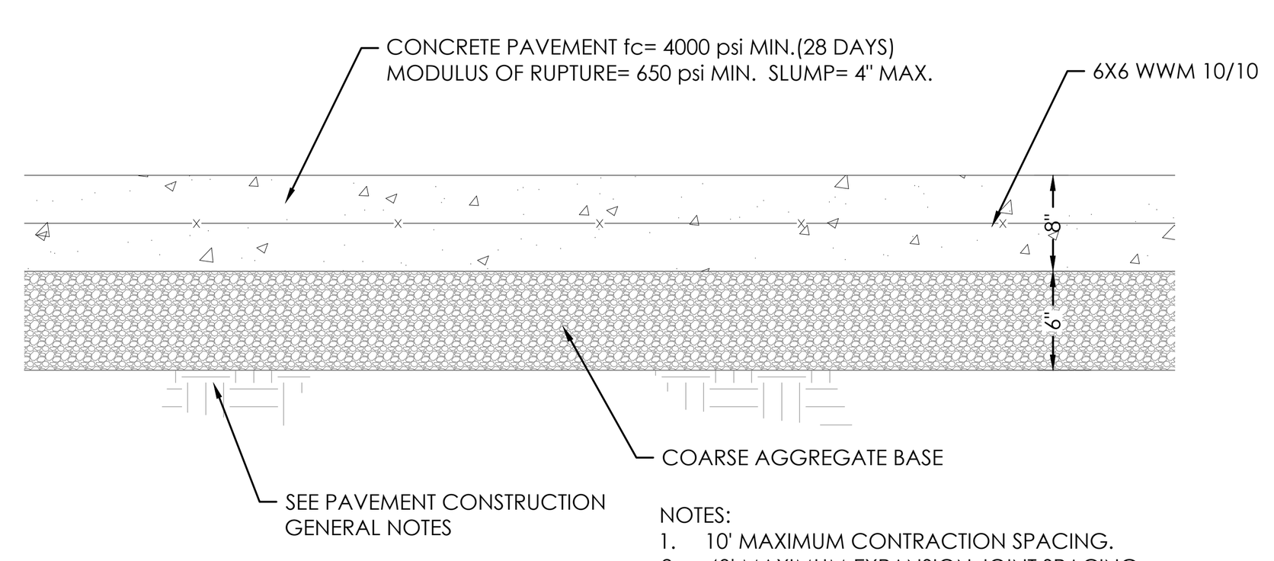


STORM SEWER "NON TRAFFIC AREAS"

METHOD "B" STORM SEWERS IN PROPOSED TRAFFIC ARES OR WITHIN STREET RIGHTS-OF-WAY

STORM SEWER PIPE BEDDING

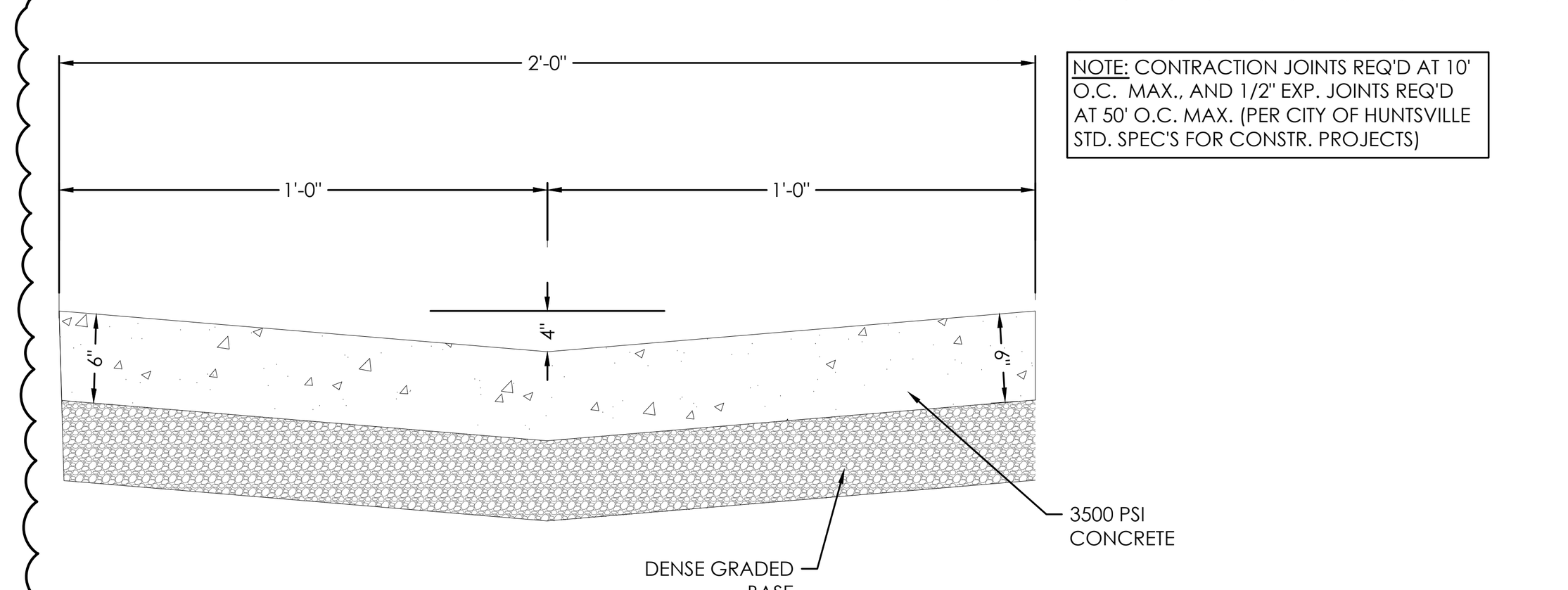
NOT TO SCALE



NOTES:
1. 10' MAXIMUM CONTRACTION SPACING.
2. 40' MAXIMUM EXPANSION JOINT SPACING.

HEAVY-DUTY CONCRETE PAVEMENT DETAIL

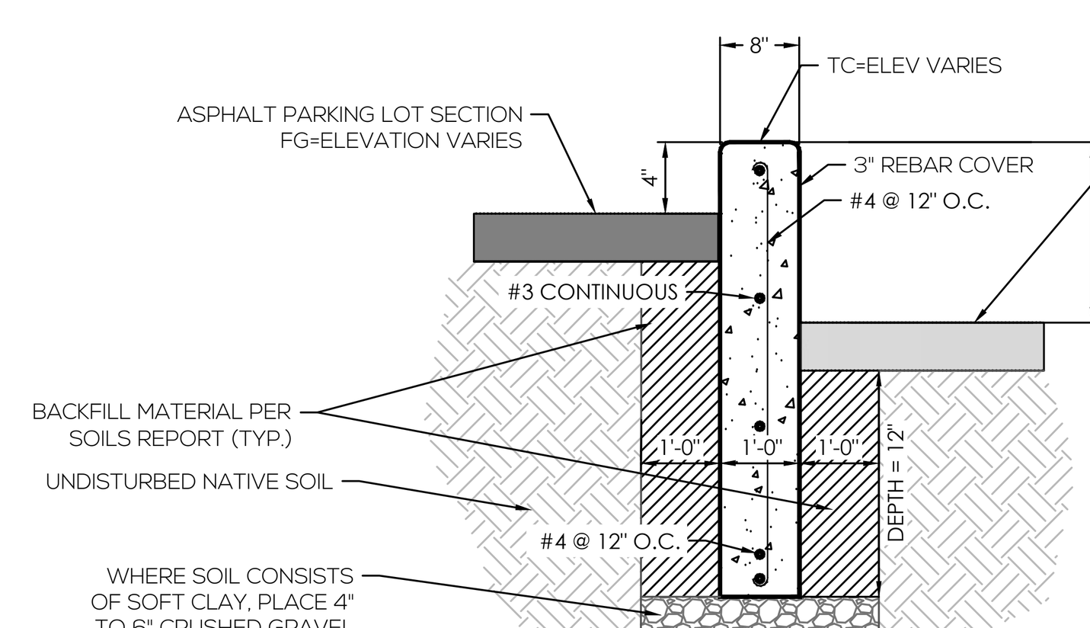
NOT TO SCALE



NOTE: CONTRACTION JOINTS REQ'D AT 10' O.C. MAX. AND 1/2" EXP. JOINTS REQ'D AT 50' O.C. MAX. (PER CITY OF HUNTSVILLE STD. SPEC'S FOR CONSTR. PROJECTS)

OPEN V-SHAPED CONCRETE CHANNEL

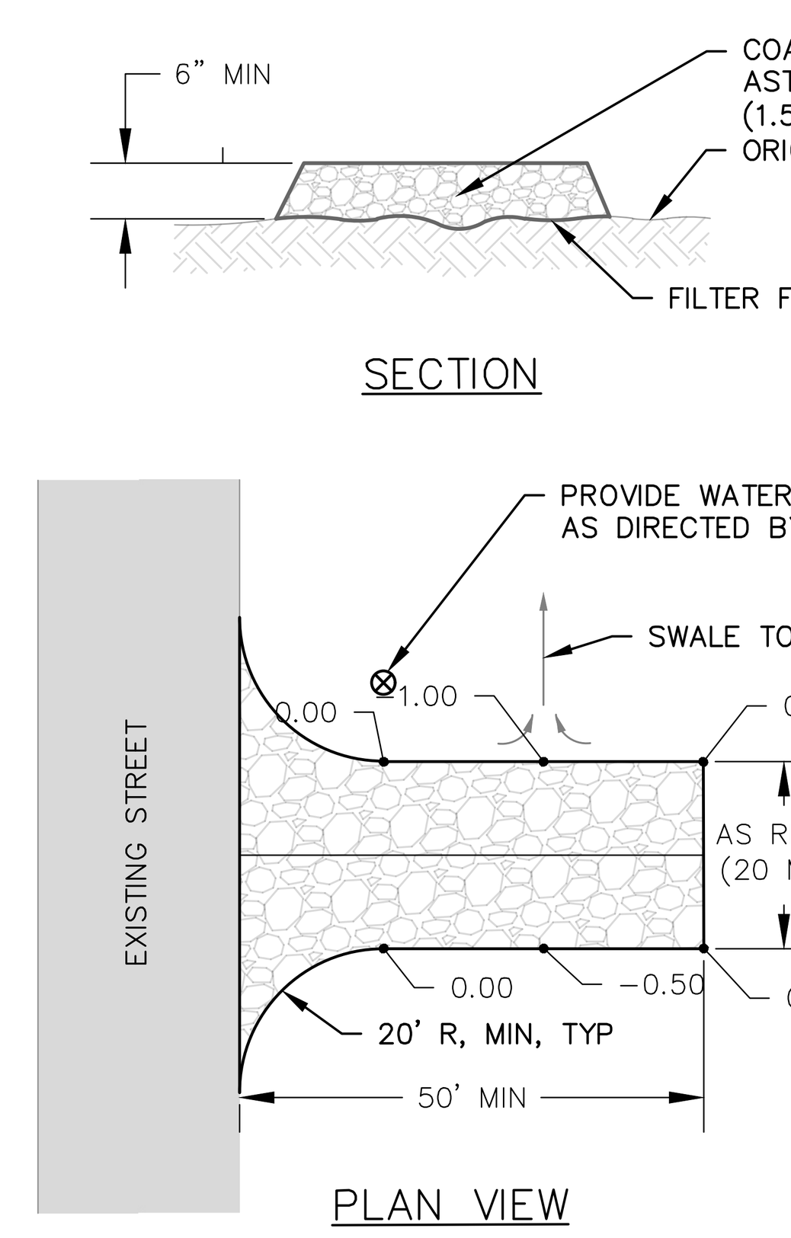
NOT TO SCALE



1. THE MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS SHALL BE 3,500 PSI AND SHALL COMPLY WITH ACI 318.
2. REINFORCING STEEL SHALL COMPLY WITH ASTM A615 AND SHALL HAVE A YIELD STRENGTH OF 60,000 PSI.
3. BACKFILLING AGAINST REINFORCED TALL CURB SHALL NOT BE PERMITTED UNTIL CONCRETE HAS REACHED ITS 28 DAY STRENGTH. CARE SHALL BE TAKEN TO AVOID EXERTING LARGE IMPACT FORCES ON THE TALL CURB.

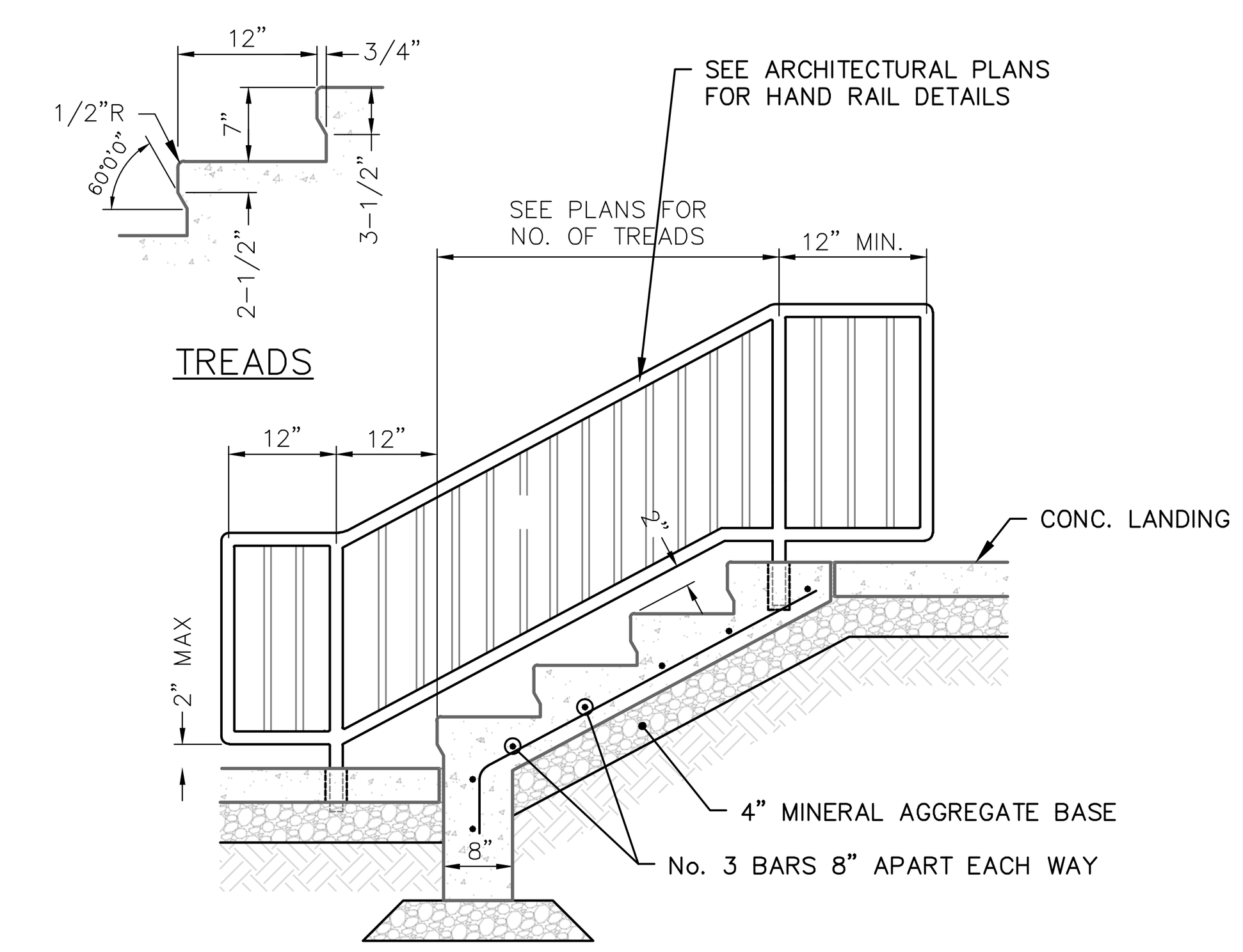
STAND UP CURB

NOT TO SCALE



TEMPORARY CONSTRUCTION ENTRANCE

NO SCALE



NOTES:
1. THIS DETAIL IS TYPICALLY FOR SLAB ON GRADE CONDITION ONLY. SEE STRUCTURAL FOR KNEE WALL AND FOOTING DETAILS WHERE REQUIRED.
2. SLOPE STEPS 1/8" TO FRONT FOR DRAINAGE.
3. USE 3500 PSI CONCRETE AND ASTM GRADE 60 STEEL.
4. CONCRETE SHALL BE RUBBED FINISHED.

STEPS WITH HAND RAIL

NO SCALE

SCHOEL
BIRMINGHAM 1001 22nd Street South Birmingham, Alabama 35205 205.323.6166
HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1221
TUSCALOOSA 3600 Watermelon Road, Ste 202 Northport, Alabama 35473 205.323.6166
SCHOEL.COM

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

ALABAMA LICENSED No. 23333 PROFESSIONAL ENGINEER 1-23-2026 BRET WAYNE WISEMAN

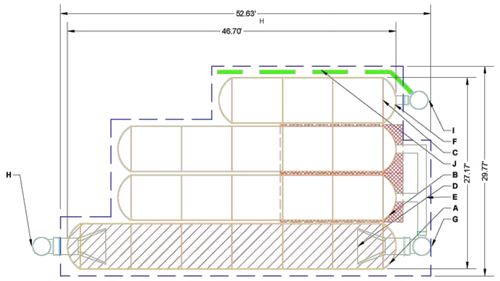
CONSTRUCTION DETAILS

C9.0

PROPOSED LAYOUT			PROPOSED ELEVATIONS	
19	STORMTECH MC-3500 CHAMBERS		MAXIMUM ALLOWABLE GRADE (TOP OF PAVEMENT/UNPAVED):	575.50
8	STORMTECH MC-3500 END CAPS		MINIMUM ALLOWABLE GRADE (UNPAVED WITH TRAFFIC):	569.50
12	STONE ABOVE (in)		MINIMUM ALLOWABLE GRADE (UNPAVED NO TRAFFIC):	569.00
9	STONE BELOW (in)		MINIMUM ALLOWABLE GRADE (TOP OF RIGID CONCRETE PAVEMENT):	569.00
40	STONE VOID		MINIMUM ALLOWABLE GRADE (BASE OF FLEXIBLE PAVEMENT):	569.00
4108	INSTALLED SYSTEM VOLUME (CF) (PERIMETER STONE INCLUDED) (COVER STONE INCLUDED) (BASE STONE INCLUDED)		TOP OF STONE:	568.50
			TOP OF MC-3500 CHAMBER:	567.50
1065	SYSTEM AREA (SF)		12" x 12" TOP MANIFOLD INVERT:	565.95
164.8	SYSTEM PERIMETER (ft)		24" ISOLATOR ROW PLUS INVERT:	563.92
			24" ISOLATOR ROW PLUS INVERT:	563.92
			12" BOTTOM CONNECTION INVERT:	563.86
			BOTTOM OF MC-3500 CHAMBER:	563.78
			UNDERDRAIN INVERT:	563.00
			BOTTOM OF STONE:	563.00

*INVERT ABOVE BASE OF CHAMBER

PART TYPE	ITEM ON LAYOUT	DESCRIPTION	INVERT*	MAX FLOW
PREFABRICATED END CAP	A	24" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP24BC / TYP OF ALL 24" BOTTOM CONNECTIONS AND ISOLATOR PLUS ROWS	2.06"	
PREFABRICATED END CAP	B	12" TOP PRE-CORED END CAP, PART#: MC3500IEPP12T / TYP OF ALL 12" TOP CONNECTIONS	26.36"	
PREFABRICATED END CAP	C	12" BOTTOM PRE-CORED END CAP, PART#: MC3500IEPP12B / TYP OF ALL 12" BOTTOM CONNECTIONS	1.35"	
FLAMP	D	INSTALL FLAMP ON 24" ACCESS PIPE / PART#: MCFLAMP (TYP 2 PLACES)		
MANIFOLD	E	12" x 12" TOP MANIFOLD, ADS N-12	26.36"	
PIPE CONNECTION	F	12" BOTTOM CONNECTION	1.35"	
NYLOPLAST (INLET W/ ISO PLUS ROW)	G	30" DIAMETER (24.00" SUMP MIN)		5.0 CFS IN
NYLOPLAST (INLET W/ ISO PLUS ROW)	H	30" DIAMETER (24.00" SUMP MIN)		
NYLOPLAST (OUTLET)	I	30" DIAMETER (DESIGN BY ENGINEER)		2.0 CFS OUT
UNDERDRAIN	J	6" ADS N-12 DUAL WALL PERFORATED HDPE UNDERDRAIN		

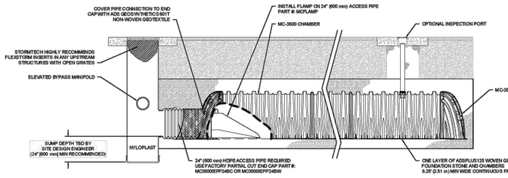


ISOLATOR ROW PLUS (SEE DETAIL)

PLACE MINIMUM 17.50' OF ADSPLUS125 WOVEN GEOTEXTILE OVER BEDDING STONE AND UNDERNEATH CHAMBER FEET FOR SCOUR PROTECTION AT ALL CHAMBER INLET ROWS

BED LIMITS

NOTES
- THE SITE DESIGN ENGINEER MUST REVIEW/ELEVATIONS AND IF NECESSARY ADJUST GRADING TO ENSURE THE CHAMBER COVER REQUIREMENTS ARE MET.
- **NOT FOR CONSTRUCTION**: THIS LAYOUT IS FOR DIMENSIONAL PURPOSES ONLY TO PROVE CONCEPT & THE REQUIRED STORAGE VOLUME CAN BE ACHIEVED ON SITE.



MC-3500 ISOLATOR ROW PLUS DETAIL
NTS

INSPECTION & MAINTENANCE

STEP 1) INSPECT ISOLATOR ROW PLUS FOR SEDIMENT
- A. INSPECTION PORTS (IF PRESENT)
  - A.1. REMOVE/OPEN LID ON NYLOPLAST INLINE DRAIN
  - A.2. REMOVE AND CLEAN FLEXSTORM FILTER IF INSTALLED
  - A.3. USING A FLASHLIGHT AND STADIA ROD, MEASURE DEPTH OF SEDIMENT AND RECORD ON MAINTENANCE LOG
  - A.4. LOWER A CAMERA INTO ISOLATOR ROW PLUS FOR VISUAL INSPECTION OF SEDIMENT LEVELS (OPTIONAL)
  - A.5. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.
- B. ALL ISOLATOR PLUS ROWS
  - B.1. REMOVE COVER FROM STRUCTURE AT UPSTREAM END OF ISOLATOR ROW PLUS
  - B.2. USING A FLASHLIGHT, INSPECT DOWN THE ISOLATOR ROW PLUS THROUGH OUTLET PIPE
    - i) MIRRORS ON POLES OR CAMERAS MAY BE USED TO AVOID A CONFINED SPACE ENTRY
    - ii) FOLLOW OSHA REGULATIONS FOR CONFINED SPACE ENTRY IF ENTERING MANHOLE
  - B.3. IF SEDIMENT IS AT, OR ABOVE, 3" (80 mm) PROCEED TO STEP 2. IF NOT, PROCEED TO STEP 3.

STEP 2) CLEAN OUT ISOLATOR ROW PLUS USING THE JETVAC PROCESS
- A. A FIXED CULVERT CLEANING NOZZLE WITH REAR FACING SPREAD OF 45° (1.1 m) OR MORE IS PREFERRED
- B. APPLY MULTIPLE PASSES OF JETVAC UNTIL BACKFLUSH WATER IS CLEAN
- C. VACUUM STRUCTURE SUMP AS REQUIRED

STEP 3) REPLACE ALL COVERS, GRATES, FILTERS, AND LIDS; RECORD OBSERVATIONS AND ACTIONS.

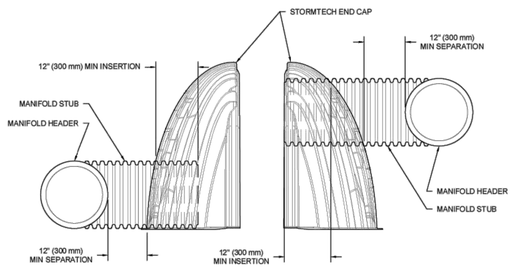
STEP 4) INSPECT AND CLEAN BASINS AND MANHOLES UPSTREAM OF THE STORMTECH SYSTEM.

NOTES
1. INSPECT EVERY 6 MONTHS DURING THE FIRST YEAR OF OPERATION. ADJUST THE INSPECTION INTERVAL BASED ON PREVIOUS OBSERVATIONS OF SEDIMENT ACCUMULATION AND HIGH WATER ELEVATIONS.
2. CONDUCT JETTING AND VACTORING ANNUALLY OR WHEN INSPECTION SHOWS THAT MAINTENANCE IS NECESSARY.

3 MC-3500 ISOLATOR ROW PLUS DETAIL

SPACE INTENTIONALLY LEFT BLANK

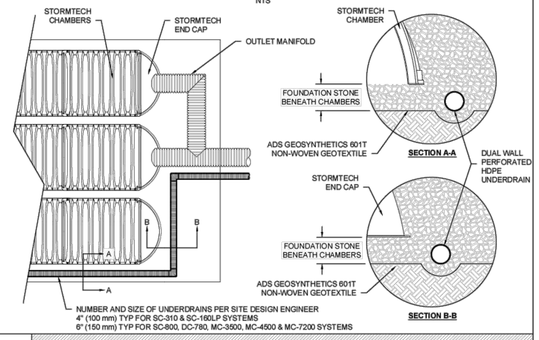
MC-SERIES END CAP INSERTION DETAIL
NTS



NOTE: MANIFOLD STUB MUST BE LAID HORIZONTAL FOR A PROPER FIT IN END CAP OPENING.

5 MC-SERIES END CAP INSERTION DETAIL

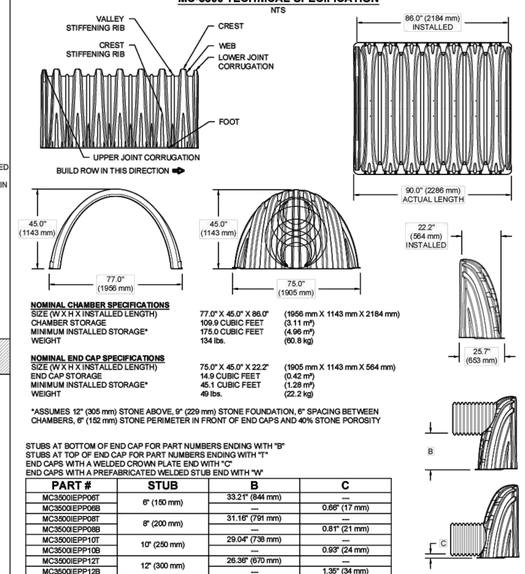
UNDERDRAIN DETAIL
NTS



4 UNDERDRAIN DETAIL

SPACE INTENTIONALLY LEFT BLANK

MC-3500 TECHNICAL SPECIFICATION
NTS



NOMINAL CHAMBER SPECIFICATIONS

SIZE (W X H X I INSTALLED LENGTH)	77.0" X 45.0" X 86.0"	(1956 mm X 1143 mm X 2184 mm)
CHAMBER STORAGE	109.9 CUBIC FEET	(3.11 m³)
MINIMUM INSTALLED STORAGE*	175.0 CUBIC FEET	(4.96 m³)
WEIGHT	134 lbs.	(60.8 kg)

NOMINAL END CAP SPECIFICATIONS

SIZE (W X H X I INSTALLED LENGTH)	75.0" X 45.0" X 22.2"	(1905 mm X 1143 mm X 564 mm)
END CAP STORAGE	14.9 CUBIC FEET	(0.42 m³)
MINIMUM INSTALLED STORAGE*	45.1 CUBIC FEET	(1.28 m³)
WEIGHT	49 lbs.	(22.2 kg)

*ASSUMES 12" (305 mm) STONE ABOVE, 9" (229 mm) STONE FOUNDATION, 6" SPACING BETWEEN CHAMBERS, 6" (152 mm) STONE PERIMETER IN FRONT OF END CAPS AND 40% STONE POROSITY

STUBS AT BOTTOM OF END CAP FOR PART NUMBERS ENDING WITH "B"
STUBS AT TOP OF END CAP FOR PART NUMBERS ENDING WITH "T"
END CAPS WITH A WELDED CROWN PLATE END WITH "C"
END CAPS WITH A PREFABRICATED WELDED STUB END WITH "W"

PART #	STUB	B	C
MC3500IEPP06T	6" (150 mm)	33.21" (844 mm)	---
MC3500IEPP06B		---	0.65" (17 mm)
MC3500IEPP08T	8" (200 mm)	31.16" (791 mm)	---
MC3500IEPP08B		---	0.81" (21 mm)
MC3500IEPP10T	10" (250 mm)	29.04" (738 mm)	---
MC3500IEPP10B		---	0.93" (24 mm)
MC3500IEPP12T	12" (300 mm)	26.36" (670 mm)	---
MC3500IEPP12B		---	1.35" (34 mm)
MC3500IEPP15T	15" (375 mm)	23.39" (594 mm)	---
MC3500IEPP15B		---	1.50" (38 mm)
MC3500IEPP18TC	18" (450 mm)	20.03" (509 mm)	---
MC3500IEPP18TW			
MC3500IEPP18BC		---	1.77" (45 mm)
MC3500IEPP18BW			
MC3500IEPP24TC	24" (600 mm)	14.46" (368 mm)	---
MC3500IEPP24TW			
MC3500IEPP24BC		---	2.06" (52 mm)
MC3500IEPP24BW			
MC3500IEPP30BC	30" (750 mm)	---	2.75" (70 mm)

NOTE: ALL DIMENSIONS ARE NOMINAL

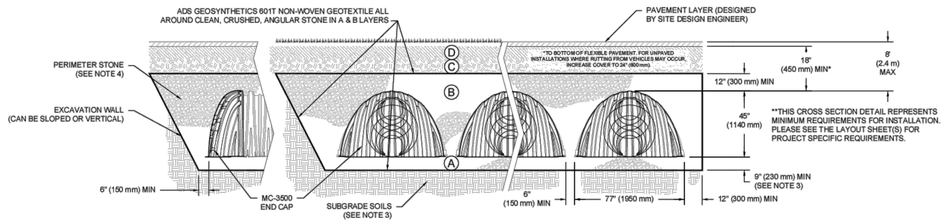
CUSTOM PRECORED INVERTS ARE AVAILABLE UPON REQUEST. INVENTORIED MANIFOLDS INCLUDE 12-24" (300-600 mm) SIZE ON SIZE AND 15-48" (375-1200 mm) ECCENTRIC MANIFOLDS. CUSTOM INVERT LOCATIONS ON THE MC-3500 END CAP CUT IN THE FIELD ARE NOT RECOMMENDED FOR PIPE SIZES GREATER THAN 10" (250 mm). THE INVERT LOCATION IN COLUMN 'S' ARE THE HIGHEST POSSIBLE FOR THE PIPE SIZE.

2 MC-3500 TECHNICAL SPECIFICATION

ACCEPTABLE FILL MATERIALS: STORMTECH MC-3500 CHAMBER SYSTEMS

	MATERIAL LOCATION	DESCRIPTION	AASHTO MATERIAL CLASSIFICATIONS	COMPACTION / DENSITY REQUIREMENT
D	**FINAL FILL:** FILL MATERIAL FOR LAYER 'D' STARTS FROM THE TOP OF THE 'C' LAYER TO THE BOTTOM OF FLEXIBLE PAVEMENT OR UNPAVED FINISHED GRADE ABOVE. NOTE THAT PAVEMENT SUBBASE MAY BE PART OF THE 'D' LAYER	ANY SOIL/ROCK MATERIALS, NATIVE SOILS, OR PER ENGINEER'S PLANS. CHECK PLANS FOR PAVEMENT SUBGRADE REQUIREMENTS.	N/A	PREPARE PER SITE DESIGN ENGINEER'S PLANS. PAVED INSTALLATIONS MAY HAVE STRINGENT MATERIAL AND PREPARATION REQUIREMENTS.
C	**INITIAL FILL:** FILL MATERIAL FOR LAYER 'C' STARTS FROM THE TOP OF THE EMBEDMENT STONE ('B' LAYER) TO 24" (600 mm) ABOVE THE TOP OF THE CHAMBER. NOTE THAT PAVEMENT SUBBASE MAY BE A PART OF THE 'C' LAYER.	GRANULAR WELL-GRADED SOIL/AGGREGATE MIXTURES, <35% FINES OR PROCESSED AGGREGATE. MOST PAVEMENT SUBBASE MATERIALS CAN BE USED IN LIEU OF THIS LAYER.	AASHTO M145[4] A-1, A-2-4, A-3 OR AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57, 6, 67, 68, 7, 78, 8, 89, 9, 10	BEGIN COMPACTIONS AFTER 24" (600 mm) OF MATERIAL OVER THE CHAMBERS IS REACHED. COMPACT ADDITIONAL LAYERS IN 12" (300 mm) MAX LIFTS TO A MIN. 95% PROCTOR DENSITY FOR WELL GRADED MATERIAL AND 95% RELATIVE DENSITY FOR PROCESSED AGGREGATE MATERIALS.
B	**EMBEDMENT STONE:** FILL SURROUNDING THE CHAMBERS FROM THE FOUNDATION STONE ('A' LAYER) TO THE 'C' LAYER ABOVE.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	NO COMPACTION REQUIRED.
A	**FOUNDATION STONE:** FILL BELOW CHAMBERS FROM THE SUBGRADE UP TO THE FOOT (BOTTOM) OF THE CHAMBER.	CLEAN, CRUSHED, ANGULAR STONE OR RECYCLED CONCRETE[5]	AASHTO M43[1] 3, 357, 4, 467, 5, 56, 57	PLATE COMPACT OR ROLL TO ACHIEVE A FLAT SURFACE.[2,3]

PLEASE NOTE:
1. THE LISTED AASHTO DESIGNATIONS ARE FOR GRADATIONS ONLY. THE STONE MUST ALSO BE CLEAN, CRUSHED, ANGULAR. FOR EXAMPLE, A SPECIFICATION FOR #4 STONE WOULD STATE: "CLEAN, CRUSHED, ANGULAR NO. 4 (AASHTO M43) STONE".
2. STORMTECH COMPACTION REQUIREMENTS ARE MET FOR 'A' LOCATION MATERIALS WHEN PLACED AND COMPACTED IN 9" (230 mm) (MAX) LIFTS USING TWO FULL COVERAGES WITH A VIBRATORY COMPACTOR.
3. WHERE INFILTRATION SURFACES MAY BE COMPROMISED BY COMPACTION, FOR STANDARD DESIGN LOAD CONDITIONS, A FLAT SURFACE MAY BE ACHIEVED BY RAKING OR DRAGGING WITHOUT COMPACTION EQUIPMENT. FOR SPECIAL LOAD DESIGNS, CONTACT STORMTECH FOR COMPACTION REQUIREMENTS.
4. ONCE LAYER 'C' IS PLACED, ANY SOIL/MATERIAL CAN BE PLACED IN LAYER 'D' UP TO THE FINISHED GRADE. MOST PAVEMENT SUBBASE SOILS CAN BE USED TO REPLACE THE MATERIAL REQUIREMENTS OF LAYER 'C' OR 'D' AT THE SITE DESIGN ENGINEER'S DISCRETION.
5. WHERE RECYCLED CONCRETE AGGREGATE IS USED IN LAYERS 'A' OR 'B' THE MATERIAL SHOULD ALSO MEET THE ACCEPTABILITY CRITERIA OUTLINED IN TECHNICAL NOTE 6.20 "RECYCLED CONCRETE STRUCTURAL BACKFILL".



NOTES:
1. CHAMBERS SHALL MEET THE REQUIREMENTS OF ASTM F2418, "STANDARD SPECIFICATION FOR POLYPROPYLENE (PP) CORRUGATED WALL STORMWATER COLLECTION CHAMBERS" CHAMBER CLASSIFICATION 45x76 DESIGNATION SS.
2. MC-3500 CHAMBERS SHALL BE DESIGNED IN ACCORDANCE WITH ASTM F2787 "STANDARD PRACTICE FOR STRUCTURAL DESIGN OF THERMOPLASTIC CORRUGATED WALL STORMWATER COLLECTION CHAMBERS".
3. THE SITE DESIGN ENGINEER IS RESPONSIBLE FOR ASSESSING THE BEARING RESISTANCE (ALLOWABLE BEARING CAPACITY) OF THE SUBGRADE SOILS AND THE DEPTH OF FOUNDATION STONE WITH CONSIDERATION FOR THE RANGE OF EXPECTED SOIL MOISTURE CONDITIONS. REFERENCE STORMTECH DESIGN MANUAL FOR BEARING CAPACITY GUIDANCE.
4. PERIMETER STONE MUST BE EXTENDED HORIZONTALLY TO THE EXCAVATION WALL FOR BOTH VERTICAL AND SLOPED EXCAVATION WALLS.
5. REQUIREMENTS FOR HANDLING AND INSTALLATION:
   - TO MAINTAIN THE WIDTH OF CHAMBERS DURING SHIPPING AND HANDLING, CHAMBERS SHALL HAVE INTEGRAL, INTERLOCKING STACKING LUGS.
   - TO ENSURE A SECURE JOINT DURING INSTALLATION AND BACKFILL, THE HEIGHT OF THE CHAMBER JOINT SHALL NOT BE LESS THAN 3".
   - TO ENSURE THE INTEGRITY OF THE ARCH SHAPE DURING INSTALLATION, a) THE ARCH STIFFNESS CONSTANT SHALL BE GREATER THAN OR EQUAL TO 500 LBS/FT/% . THE ASC IS DEFINED IN SECTION 6.2.8 OF ASTM F2418. AND b) TO RESIST CHAMBER DEFORMATION DURING INSTALLATION AT ELEVATED TEMPERATURES (ABOVE 73° F / 23° C), CHAMBERS SHALL BE PRODUCED FROM REFLECTIVE GOLD OR YELLOW COLORS.

1 MC-3500 CROSS SECTION DETAIL

SCHOEL
BIRMINGHAM 1001 22nd Street South Birmingham, Alabama 35205 205.323.6160
HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1225
TUSCALOOSA 3600 Watermelon Road, Ste 202 Northport, Alabama 35473 205.323.6160
SCHOEL.COM

DRAWN: JG | DATE: 12/16/2025
CHECKED: N/A | PROJECT #:
REV: | NOT TO SCALE

ISSUE | DATE
100% CONSTRUCTION DOCUMENTS | 1/9/2026
ADDENDUM 3 | 1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION COPY 2
ASHVILLE, AL, USA

StormTech® Chamber System

4640 TRUEMAN BLVD
HILLIARD, OH 43026
1-800-733-7473

ADS

THIS DRAWING HAS BEEN PREPARED BASED ON INFORMATION PROVIDED TO ADS/STORMTECH UNDER THE DIRECTION OF THE PROJECT'S ENGINEER OF RECORD (EOR)/OR OTHER PROJECT REPRESENTATIVE. THIS DRAWING IS NOT INTENDED FOR USE IN BIDDING OR CONSTRUCTION WITHOUT THE EOR'S PRIOR APPROVAL. EOR SHALL REVIEW THIS DRAWING PRIOR TO BIDDING AND/OR CONSTRUCTION. IT IS THE ULTIMATE RESPONSIBILITY OF THE EOR TO ENSURE THAT THE PRODUCT(S) DEPICTED AND ALL ASSOCIATED DETAILS MEET ALL APPLICABLE LAWS, REGULATIONS, AND PROJECT REQUIREMENTS.

SHEET 1 OF 1

CONSTRUCTION DETAILS

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

BRADLEY ALLEN GARNER LICENSED PROFESSIONAL ENGINEER No. 23333 12-23-2025 STATE OF ALABAMA

GMC # AHUN250003

C9.1

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HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1225
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117 Jefferson Street North
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T 256.539.3431
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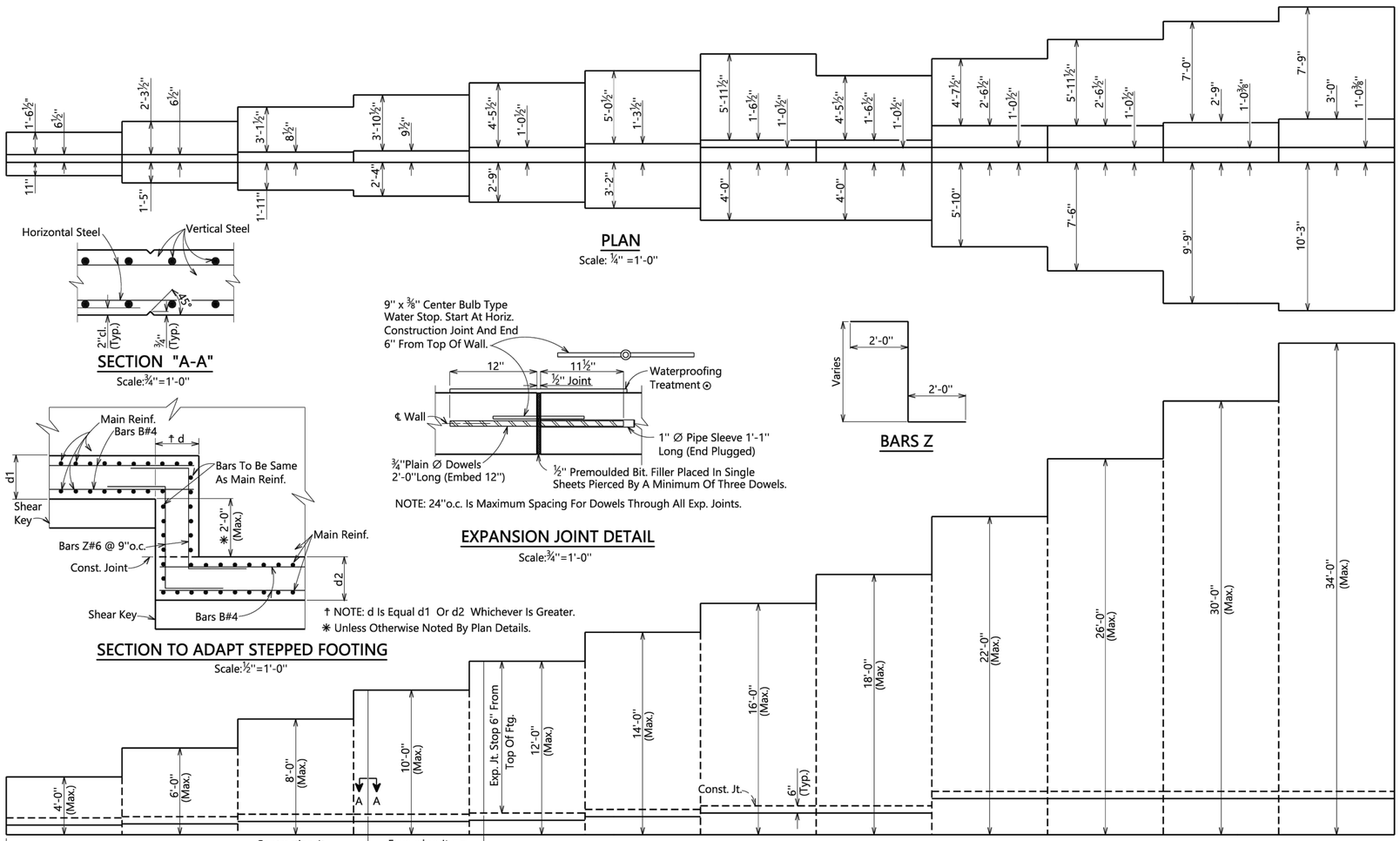
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



◇ NOTE: Quantities Are Based On Maximum Height For Each Wall.

◇ ESTIMATED QUANTITIES

Wall Height	Cu. Yds. Concrete (Per Lin. Ft. Of Wall)	Lbs. Steel Reinf. (Per Lin Ft. Of Wall)
0' To 4'	0.16	6.4
4' To 6'	0.23	19.8
6' To 8'	0.40	44.7
8' To 10'	0.53	76.2
10' To 12'	0.75	108.8
12' To 14'	1.08	147.2
14' To 16'	1.37	185.1
16' To 18' (Level Fill)	1.38	156.8
16' To 18' (Slope Fill)	2.09	251.2
18' To 22' (Level Fill)	2.60	197.6
18' To 22' (Slope Fill)	2.92	310.8
22' To 26' (level Fill)	3.14	344.8
22' To 26' (Slope Fill)	3.51	556.7
26' To 30' (Level Fill)	3.88	488.6
26' To 30' (Slope Fill)	4.06	428.8
30' To 34' (Level Fill)	4.44	630.1
30' To 34' (Slope Fill)	5.15	820.0

GENERAL NOTES

SPECIFICATIONS: Alabama Department Of Transportation

CONCRETE: Shall Be Retaining Wall Concrete.

WEEP HOLES: Three Inch Round Weep Holes Spaced Not Over Ten Feet On Centers Shall Be Placed At Elevations As Shown On Retaining Wall Sections w/Backfill As Per Subarticle 214.02 (b).

CONSTRUCTION JOINTS: All Construction Joints Shall Be Carefully Made, Well Bonded And Waterproof.

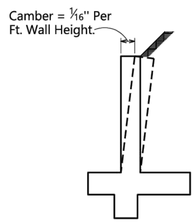
STEEL REINFORCEMENT: All Reinforcement Shall Be In Accordance With Section 835.

WALL CAP: The Top Of All Walls Shall Be Provided With A Cap As Detailed Below Unless Otherwise Noted By Plan Details.

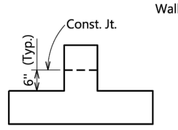
NOTE: Plans And Elevations For 16'-0'' To 34'-0'' Retaining Wall With Sloping Backfill Not Shown.

NOTE: Expansion Joints Shall Be Placed At a Maximum Distance Of 50'-0'' o.c. Place Contraction Joints Midway Between Expansion Joints. See Details Below.

NOTE: Elevation View Shown Is Diagrammatic For Wall Heights Only.Top Of Wall Shall Be Level Or Sloped To Fit Ajacent Ground Condition. See "Detail At Top Of Wall" Where Different Wall Thicknesses Are Used.

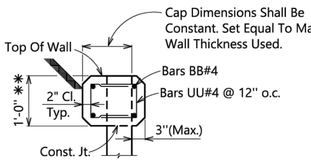


CAMBER DETAILS
(N.T.S.)



CONSTRUCTION JOINT DETAILS
(N.T.S.)

⊙ NOTE: Expansion Joints Require A Waterproofing To Extend 12'' On Each Side Of The Expansion Joint For Full Height Of Wall And Across Top Of Footing. Waterproofing Shall Be Class A Or Class D In Accordance With Section 515. Cost Of Waterproofing To Be Included In The Unit Price Bid For Retaining Wall Concrete.



✱✱ Cap Shall Be Poured As The Top 1'-0'' Of Wall After The Backfill Has Been Placed.

DETAIL AT TOP OF WALL
Scale:$^{6}/_{64}$''=1'-0''

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

BRIAN A. WISEMAN LICENSED PROFESSIONAL ENGINEER No. 23333 PROFESSIONAL 1-23-2026 ENGINEER STATE OF ALABAMA BRIAN WAYNE WISEMAN

CONSTRUCTION DETAILS
C9.2

PLOTTED: 11-SEP-2019
\\brvms002\BridgeStandardandSpecial\Bridge Standard DGN Files\Standards&Books\Bridge\Books\Bridge\2020 StandardsBook\rw104.dgn

ALABAMA DEPARTMENT OF TRANSPORTATION	THESE DRAWINGS REPRESENT DESIGNS PREPARED FOR USE BY THE ALABAMA DEPARTMENT OF TRANSPORTATION AND ARE NOT TO BE COPIED, REPRODUCED, ALTERED, OR USED BY ANYONE, OR ANY ORGANIZATION, WITHOUT THE EXPRESSED WRITTEN CONSENT OF THE ALABAMA DEPARTMENT OF TRANSPORTATION REPRESENTATIVE AUTHORIZED TO APPROVE SUCH USE. ANYONE MAKING UNAUTHORIZED USE OF THESE DRAWINGS MAY BE PROSECUTED TO THE FULLEST EXTENT OF THE LAW.	REVISIONS	RETAINING WALLS 0' TO 34' HEIGHTS	BRIDGE STANDARD DRAWING			INDEX NO.
				FHWA APPROVED 8-25-10	RW 10-4	SHEET 1 OF 4	52901

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HUNTSVILLE 101 Washington Street SE, Huntsville, Alabama 35801 256.539.1221
TUSCALOOSA 3800 Watermelon Road, Ste 200, Northport, Alabama 35473 205.323.6166
SCHOEL.COM

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
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ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
3 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
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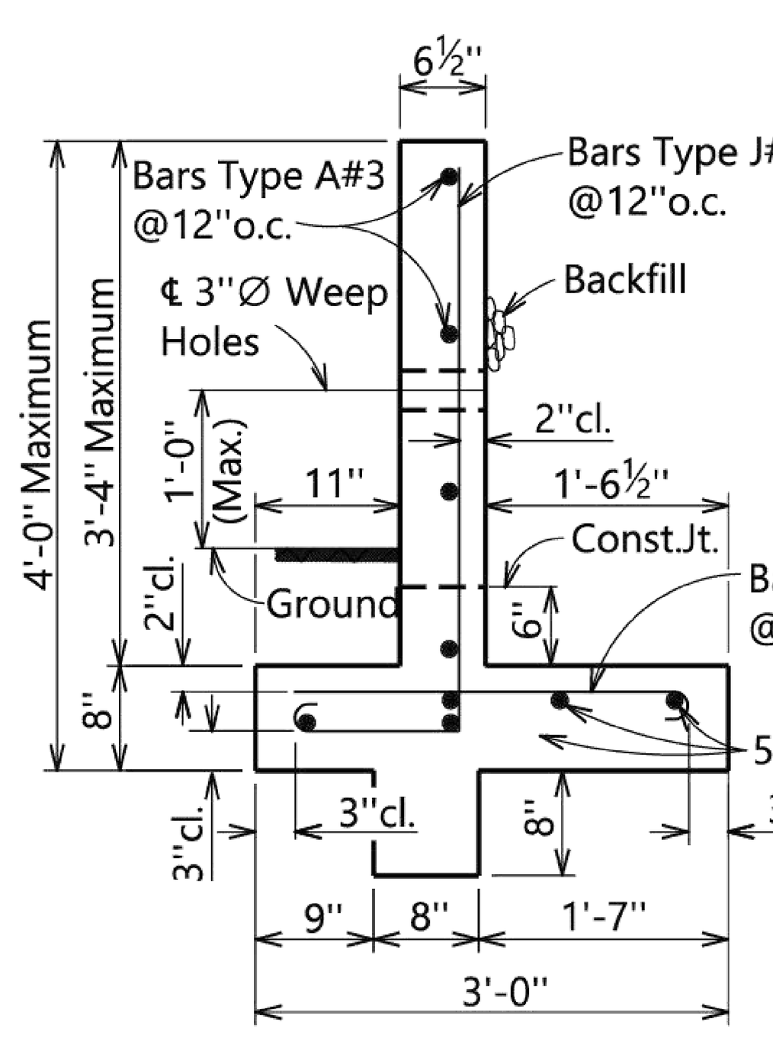
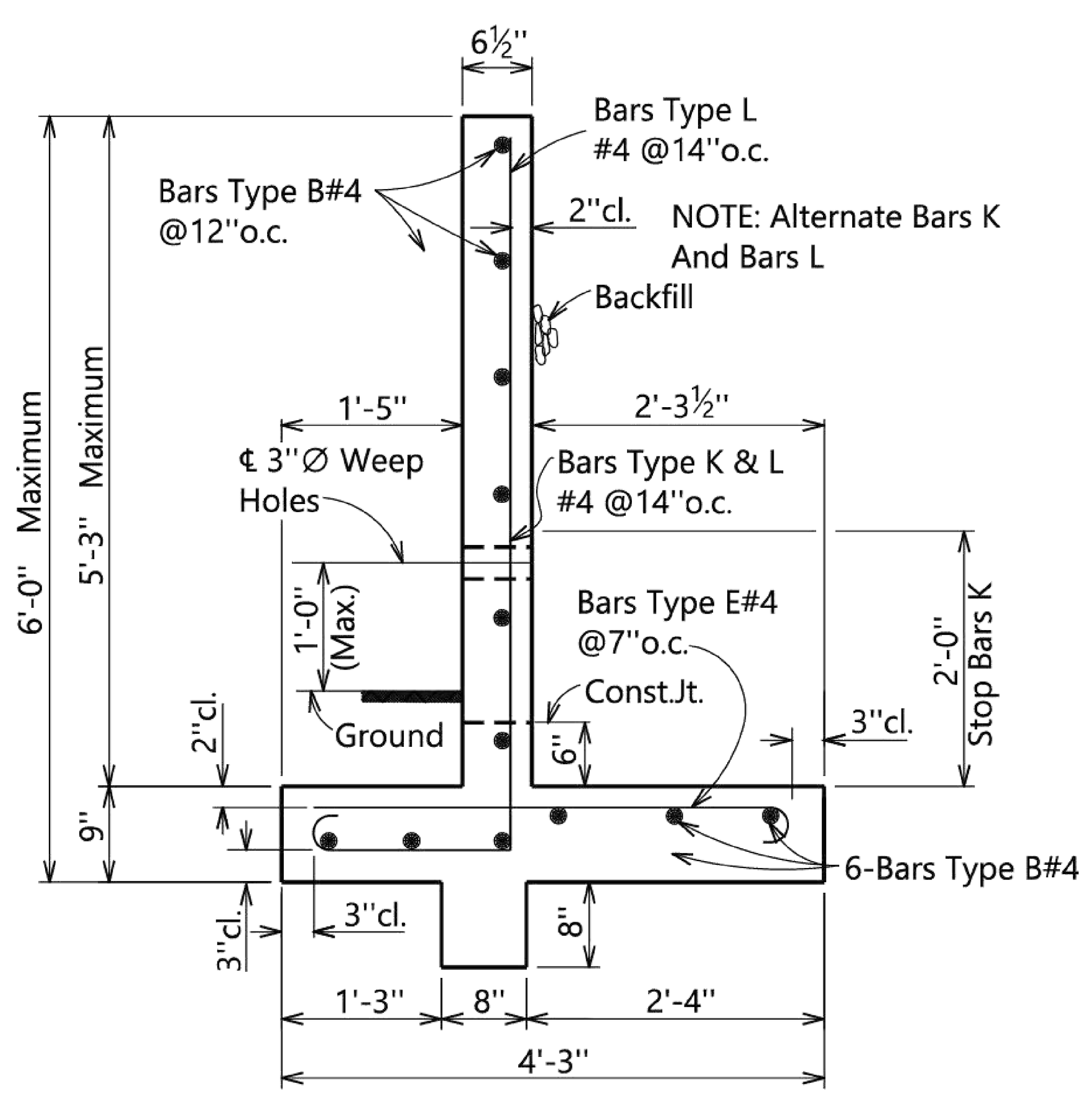
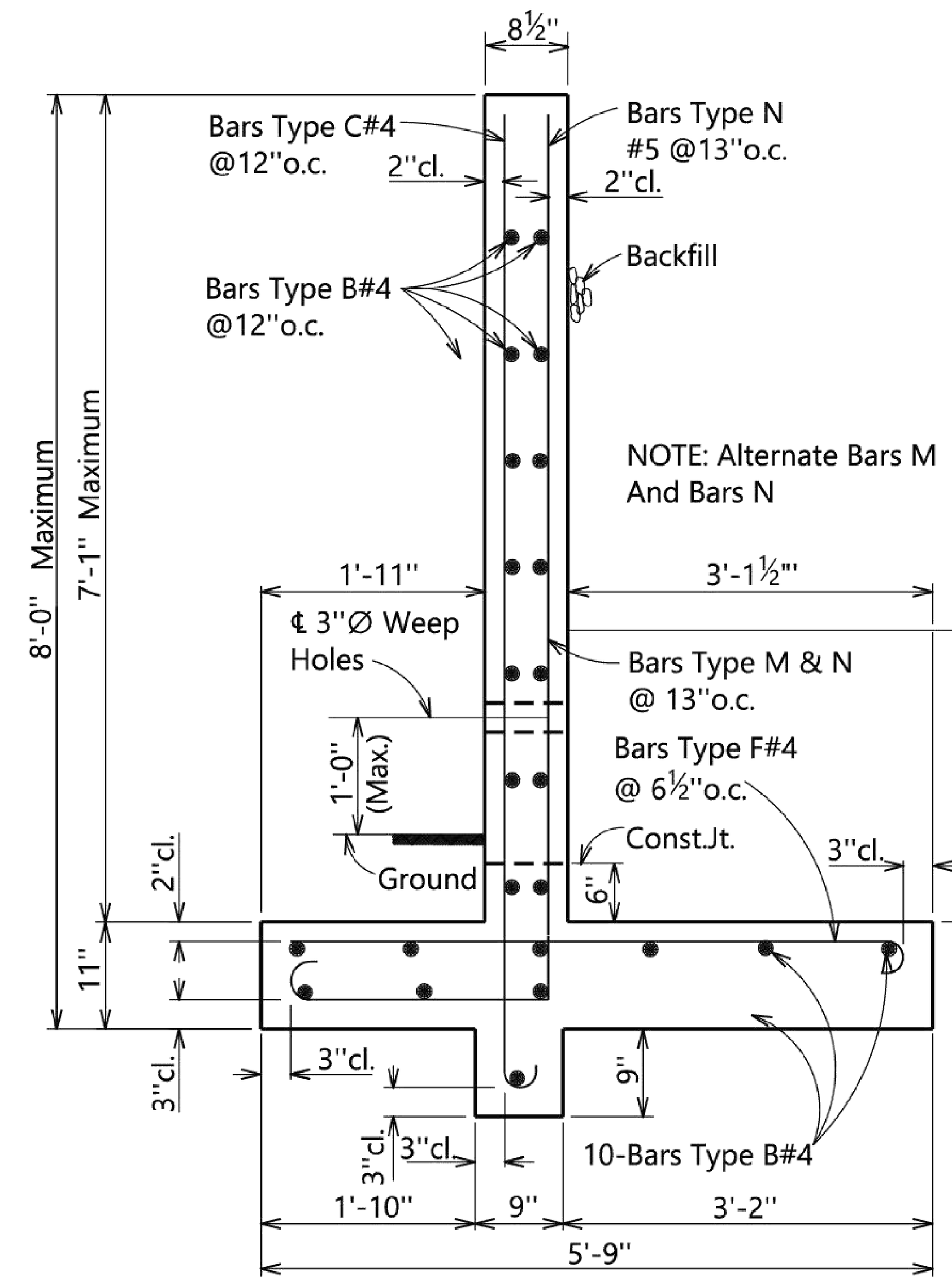
REFERENCE PROJECT NUMBER	FISCAL YEAR	SHEET NUMBER



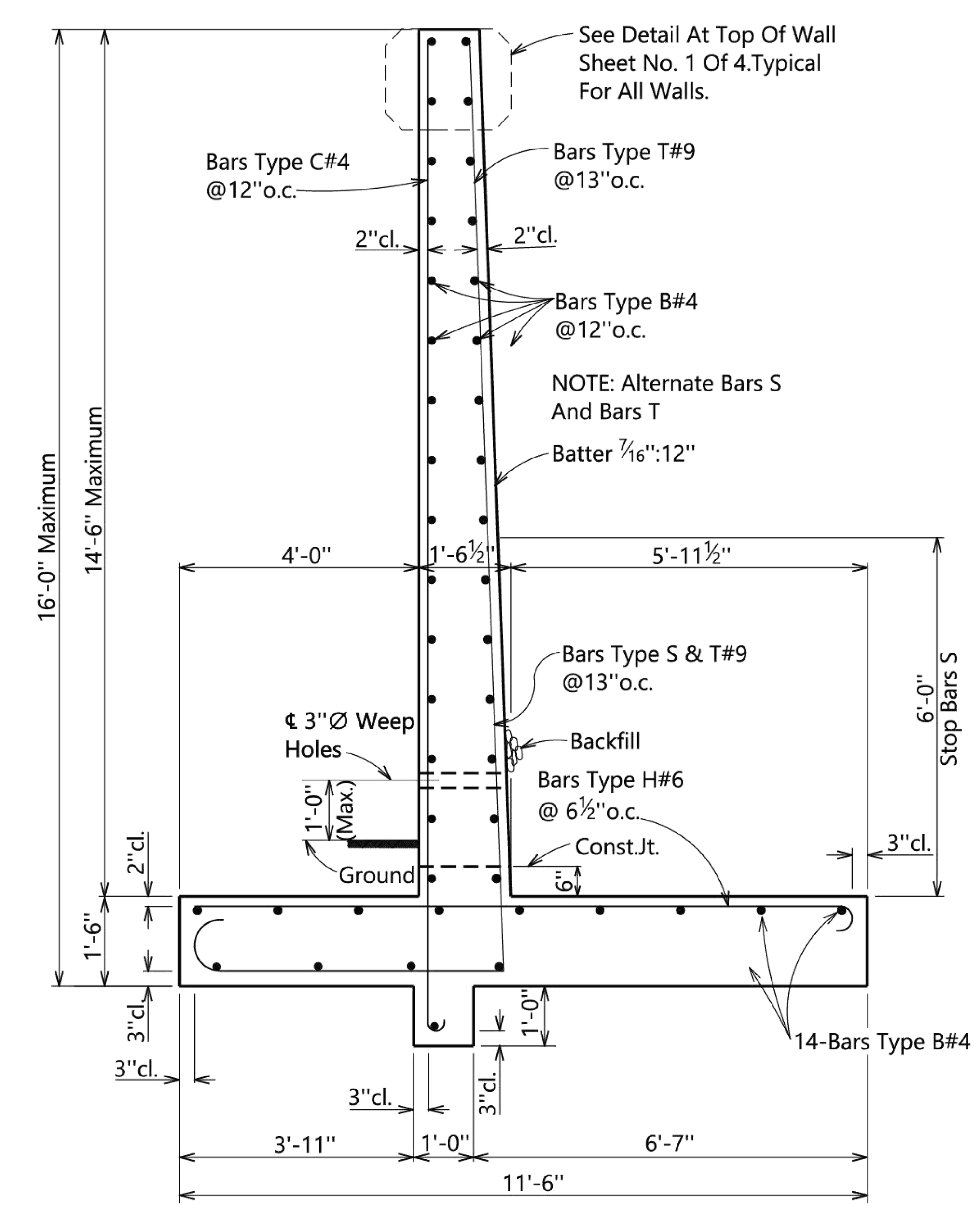
0' To 4'-0" RETAINING WALL
Scale: ¾" =1'-0"



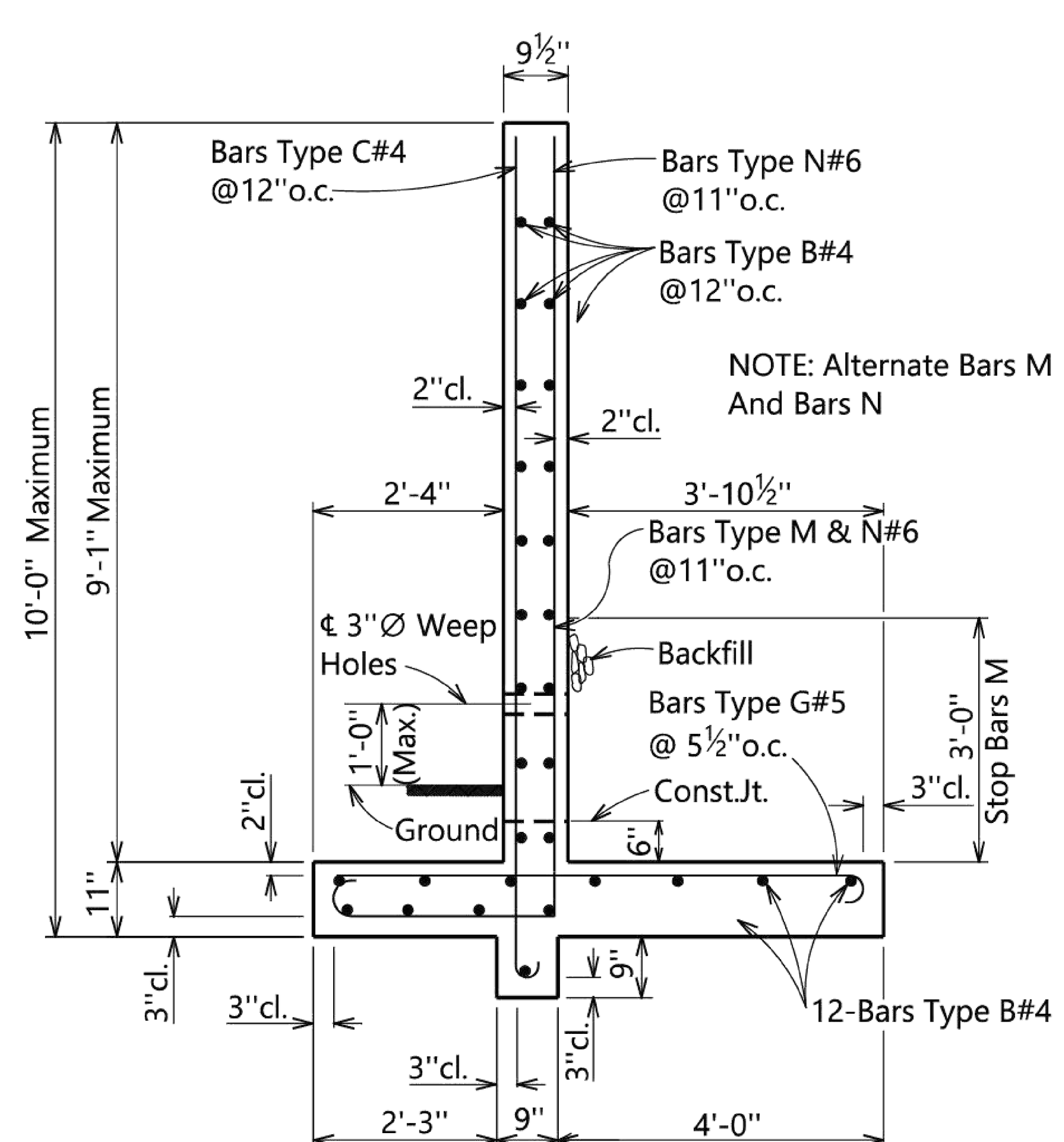
4'-0" To 6'-0" RETAINING WALL
Scale: ¾" =1'-0"



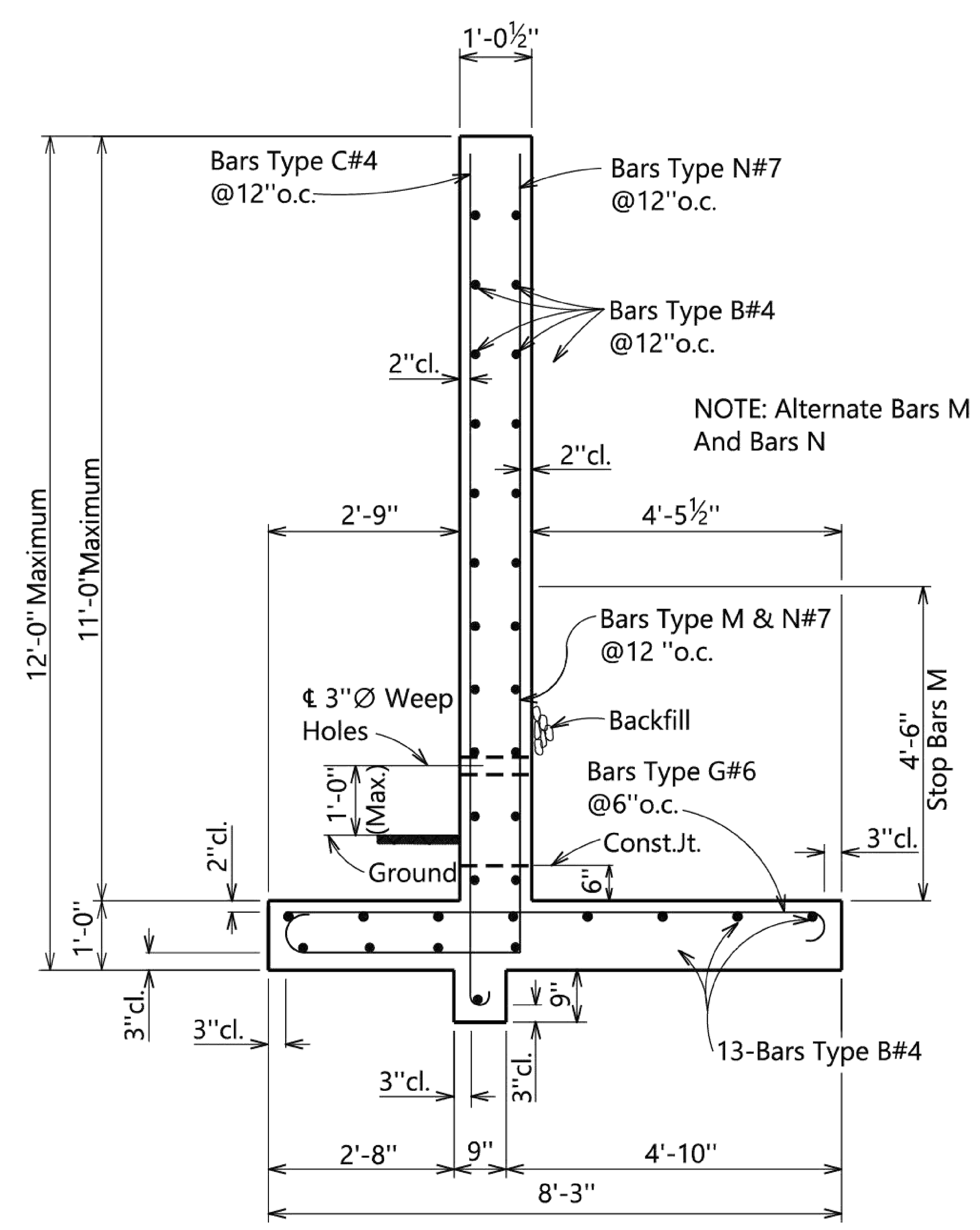
6'-0" To 8'-0" RETAINING WALL
Scale: ¾" =1'-0"



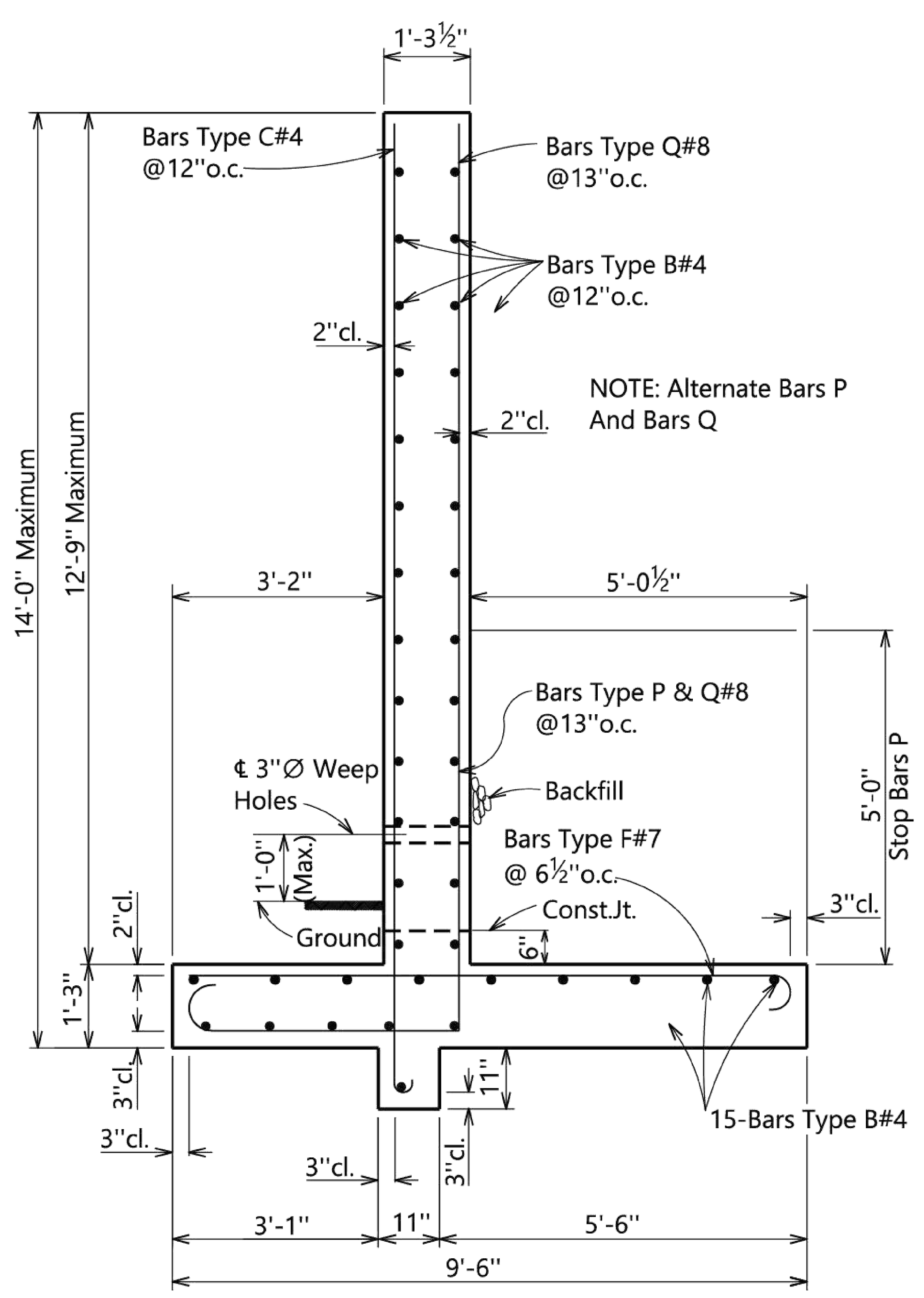
14'-0" To 16'-0" RETAINING WALL
Scale: ½" =1'-0"



8'-0" To 10'-0" RETAINING WALL
Scale: ½" =1'-0"



10'-0" To 12'-0" RETAINING WALL
Scale: ½" =1'-0"



12'-0" To 14'-0" RETAINING WALL
Scale: ½" =1'-0"

NOTE:The Retaining Wall Designs On Sheets 2 Thru 4 Are Based On A 3000 psf Minimum Allowable Soil Bearing Pressure.

NOTE:Retaining Walls Shown 0'To 16'In Height May Be Used For Level Or Sloping Backfill.

\\brvms002\BridgeStandardandSpecial\Bridge Standard DGN Files\StandardsBooks\Bridge\2020 StandardsBook\rw104.dgn

PLOTTED: 11-SEP-2019

ALABAMA DEPARTMENT OF TRANSPORTATION	REVISIONS	RETAINING WALLS 0' TO 34' HEIGHTS	BRIDGE STANDARD DRAWING			INDEX NO.
			FHWA APPROVED 8-25-10	RW 10-4	SHEET 2 OF 4	52902

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

CONSTRUCTION DETAILS

C9.3

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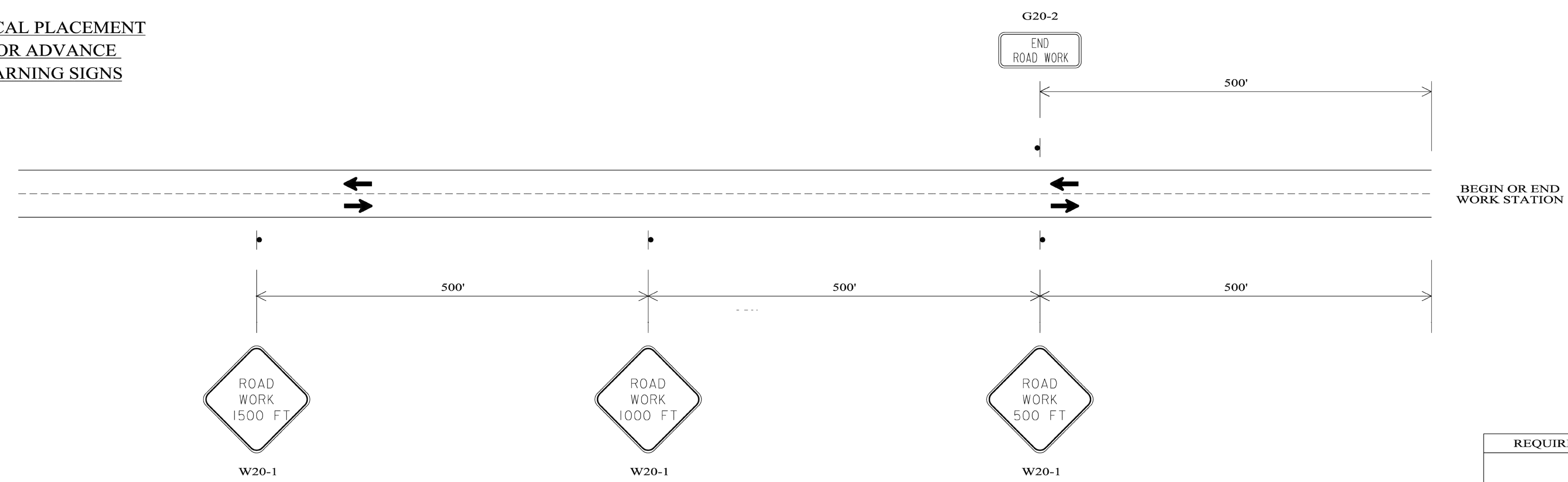
BIRMINGHAM | HUNTSVILLE | TUSCALOOSA
SCHOEL.COM

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

TEMPORARY TRAFFIC CONTROL PLAN SHEET

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO

TYPICAL PLACEMENT FOR ADVANCE WARNING SIGNS



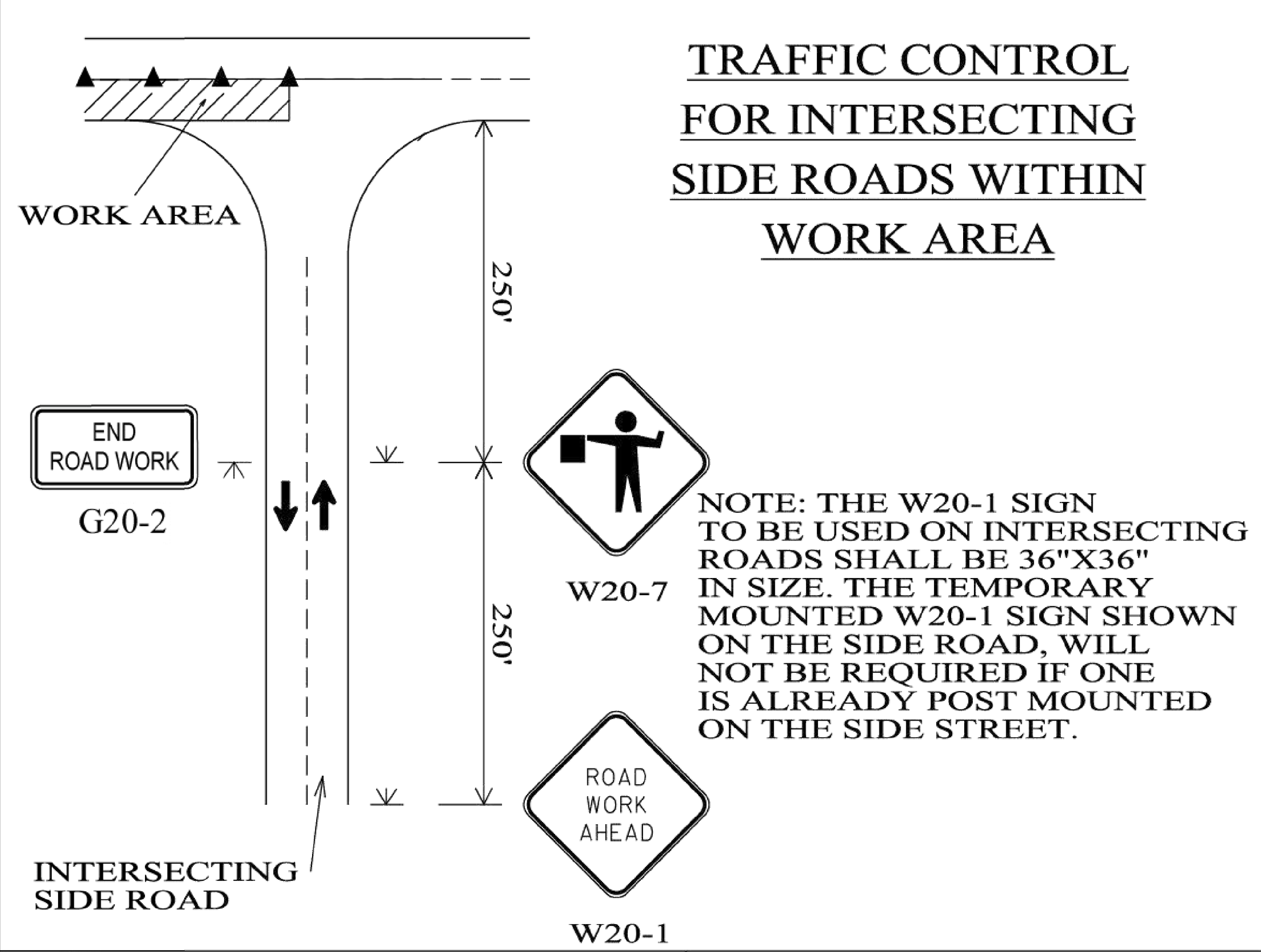
REQUIRED SIGN SIZES	
G20-2	48" X 24"
W20-1	48" X 48"
W20-4	48" X 48"
W20-7	48" X 48"

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

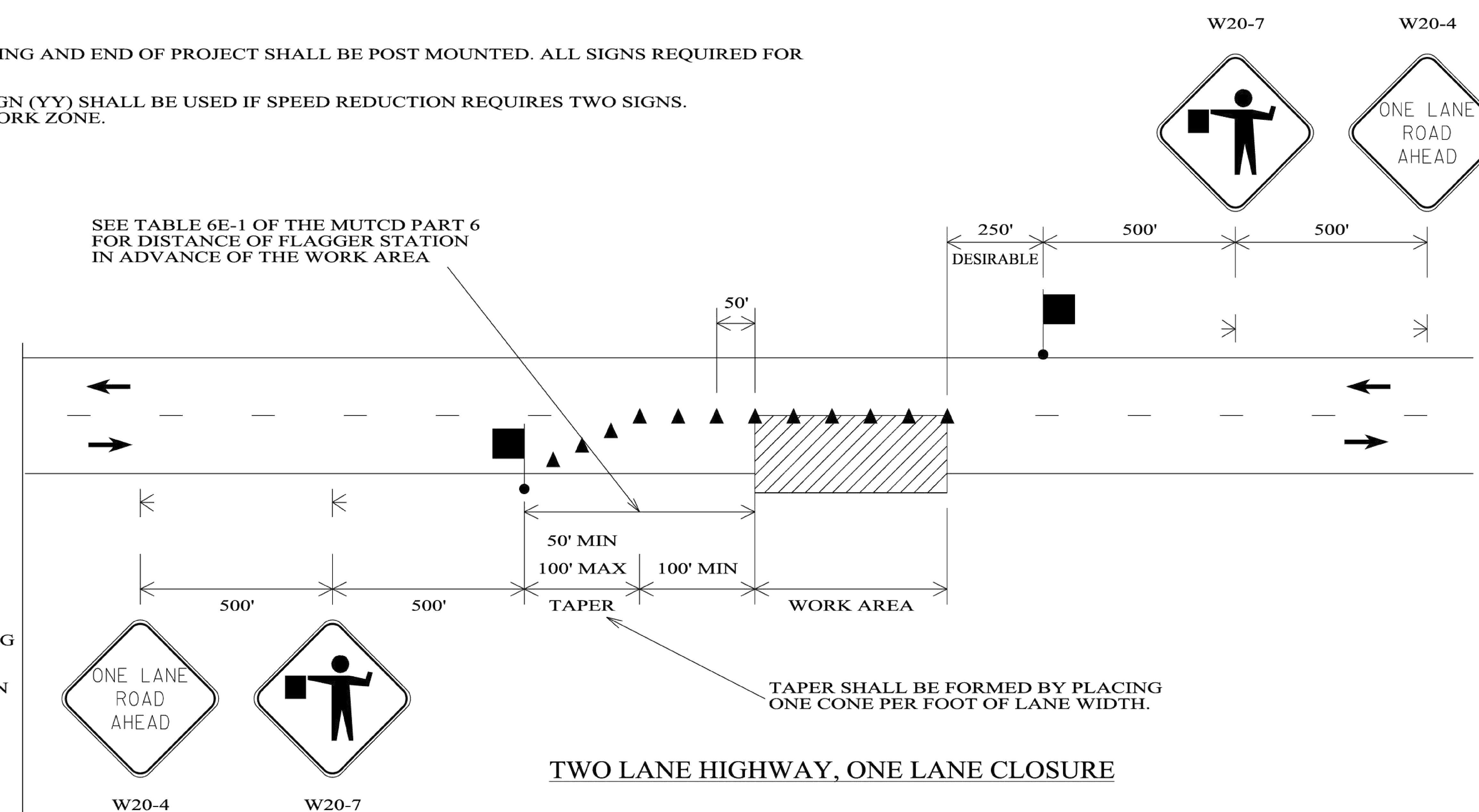
GENERAL NOTES

1. ALL ADVANCE WARNING SIGNS REQUIRED AT THE BEGINNING AND END OF PROJECT SHALL BE POST MOUNTED. ALL SIGNS REQUIRED FOR THE LANE CLOSURE SHALL BE TEMPORARY MOUNTED.
2. SIGN (XX) SHALL SHOW THE SPEED IN THE WORK ZONE. SIGN (YY) SHALL BE USED IF SPEED REDUCTION REQUIRES TWO SIGNS. SIGN(ZZ) SHALL SHOW THE POSTED SPEED OUTSIDE THE WORK ZONE.

TRAFFIC CONTROL FOR INTERSECTING SIDE ROADS WITHIN WORK AREA



NOTE: THE W20-1 SIGN TO BE USED ON INTERSECTING ROADS SHALL BE 36"X36" IN SIZE. THE TEMPORARY MOUNTED W20-1 SIGN SHOWN ON THE SIDE ROAD, WILL NOT BE REQUIRED IF ONE IS ALREADY POST MOUNTED ON THE SIDE STREET.



TWO LANE HIGHWAY, ONE LANE CLOSURE

LEGEND
- TEMPORARY MOUNTED SIGN
- POST MOUNTED SIGN
- CONES
- FLAGGER
- WORK AREA

NOT TO SCALE

--SPECIFICATIONS-- CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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

REVISIONS:
1.

Bureau Std Engr: D.J.W.
DRAWN BY:
DATE DRAWN:
REVISED DATE: 3-24-2021

DESIGN BUREAU SPECIAL DRAWING
DETAILS FOR TRAFFIC CONTROL FOR TWO LANE HIGHWAYS

SPECIAL DRAWING NO: SPECIAL PROJECT DETAIL
INDEX NO: 2002

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

CONSTRUCTION DETAILS

C9.4

SCHOEL
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.6166
HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1221
TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166
SCHOEL.COM

GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
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100% CONSTRUCTION DOCUMENTS	1/9/2026
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DRAWN BY: J. GARNER
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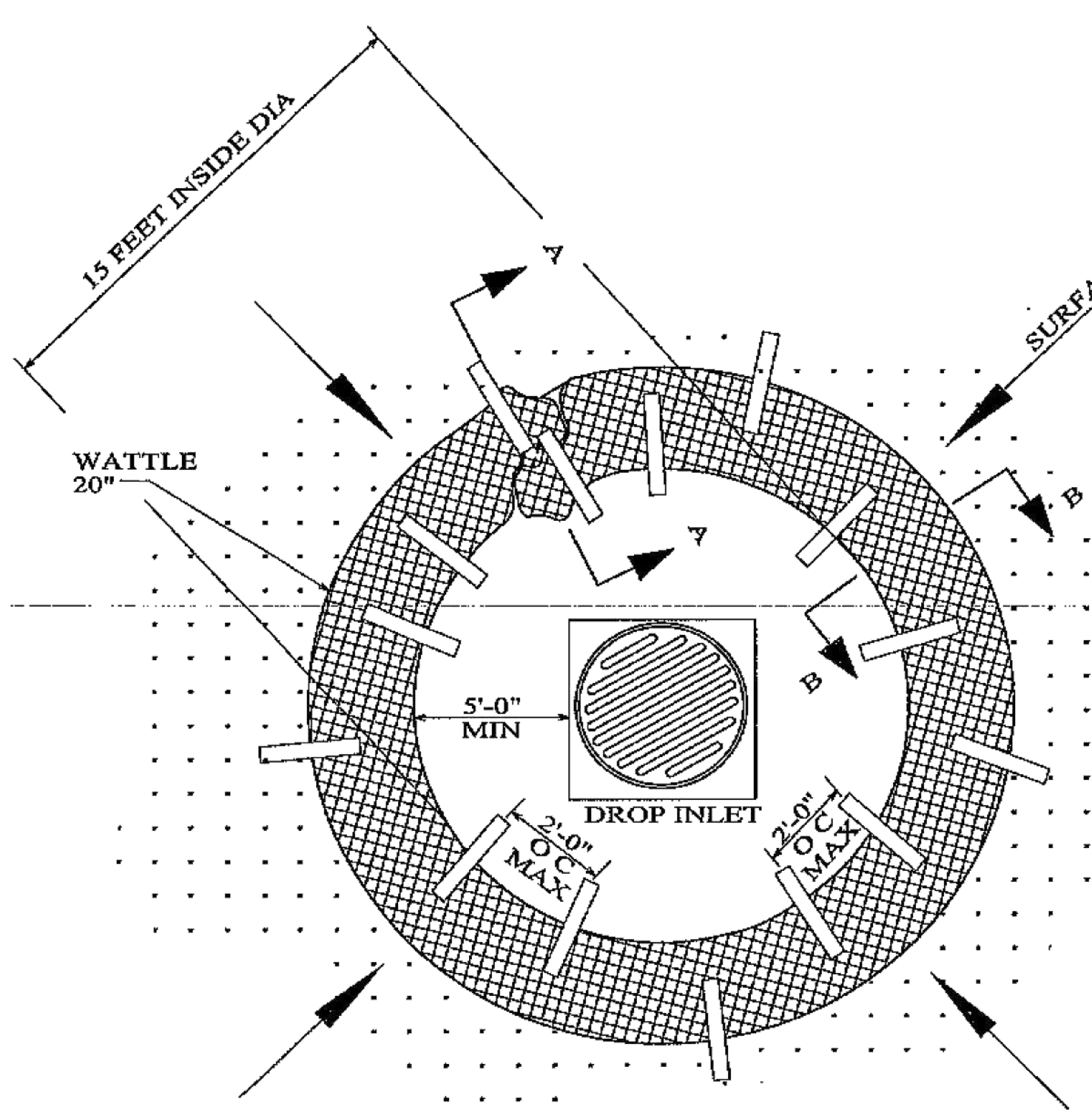
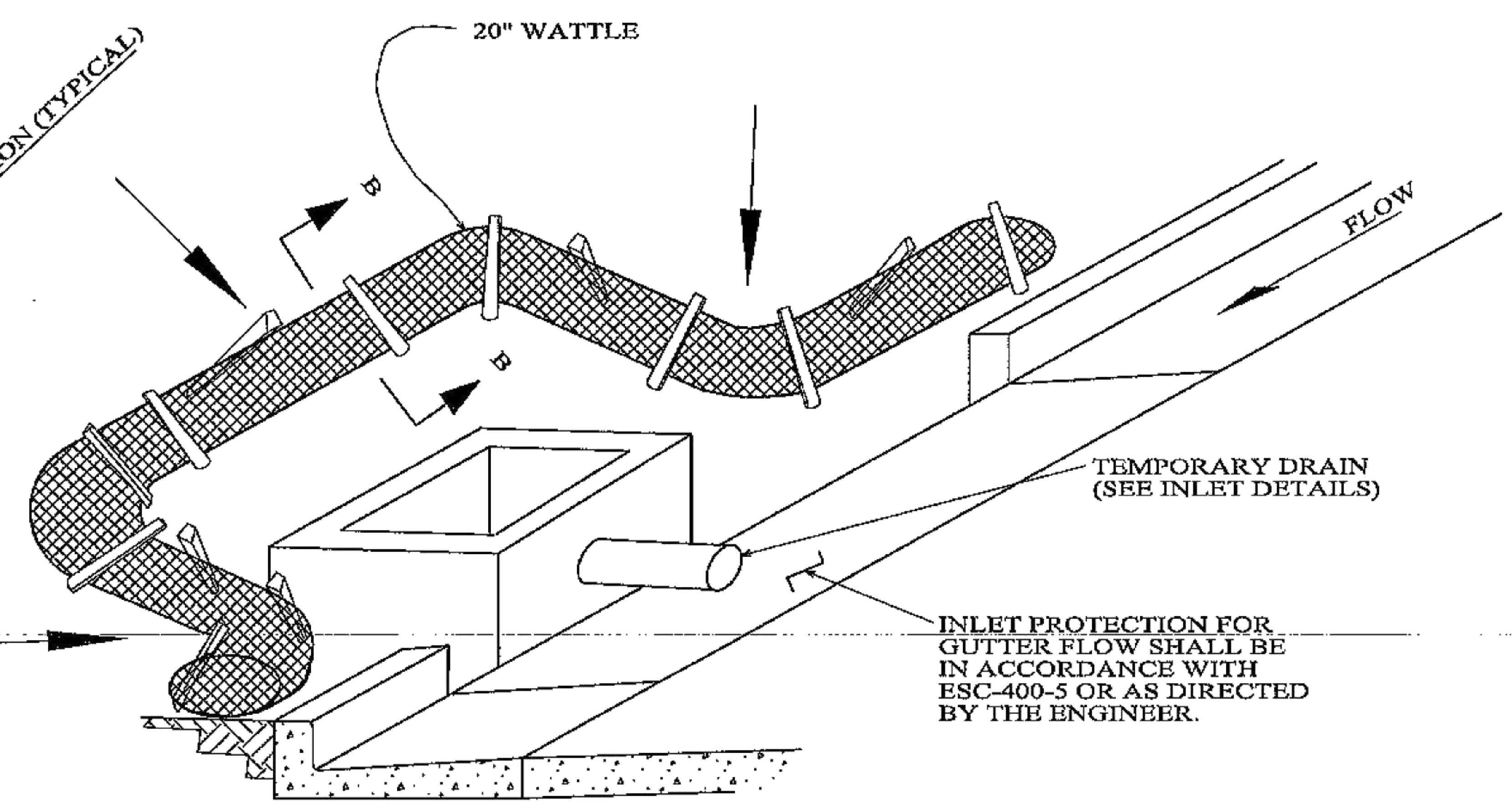
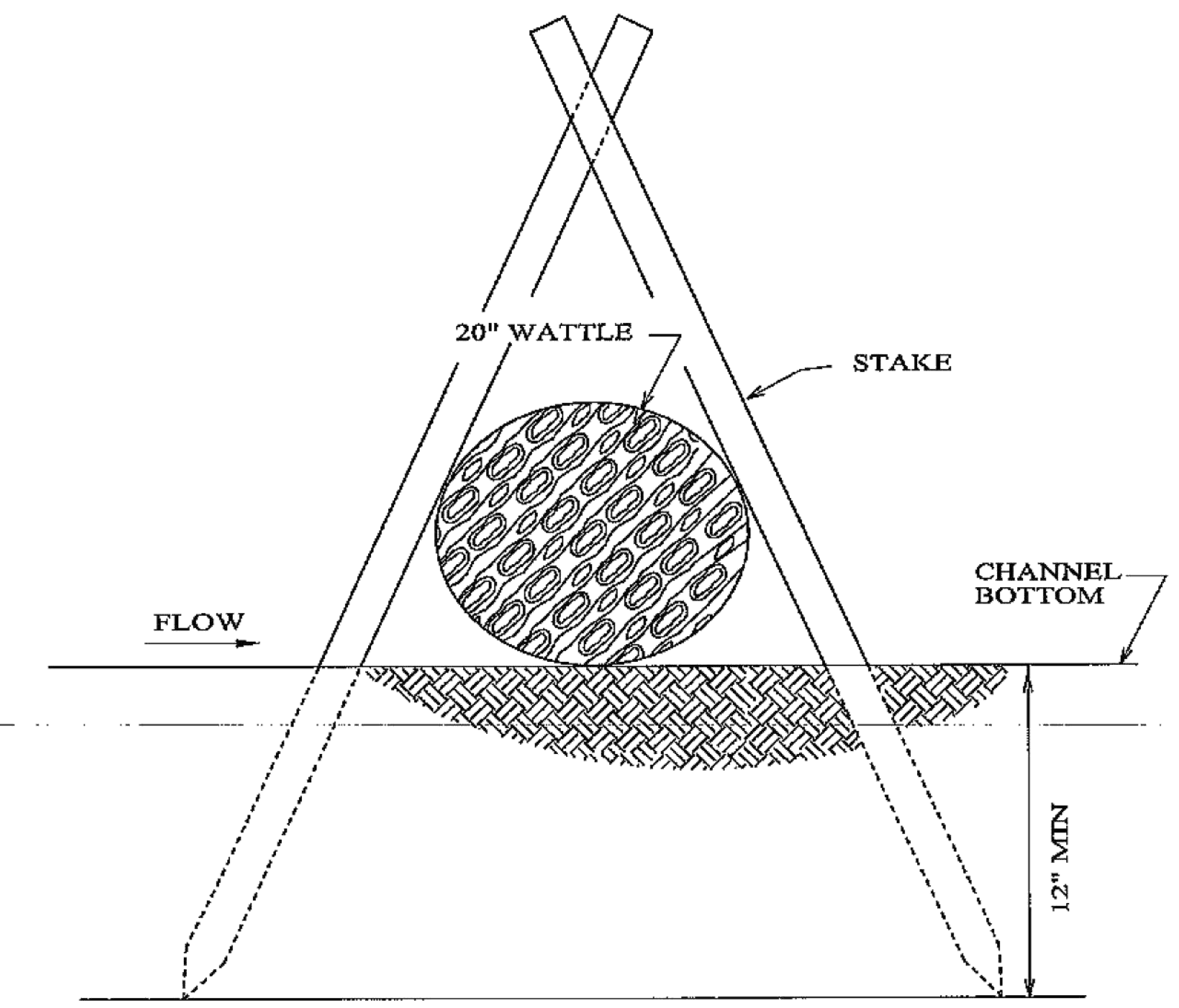


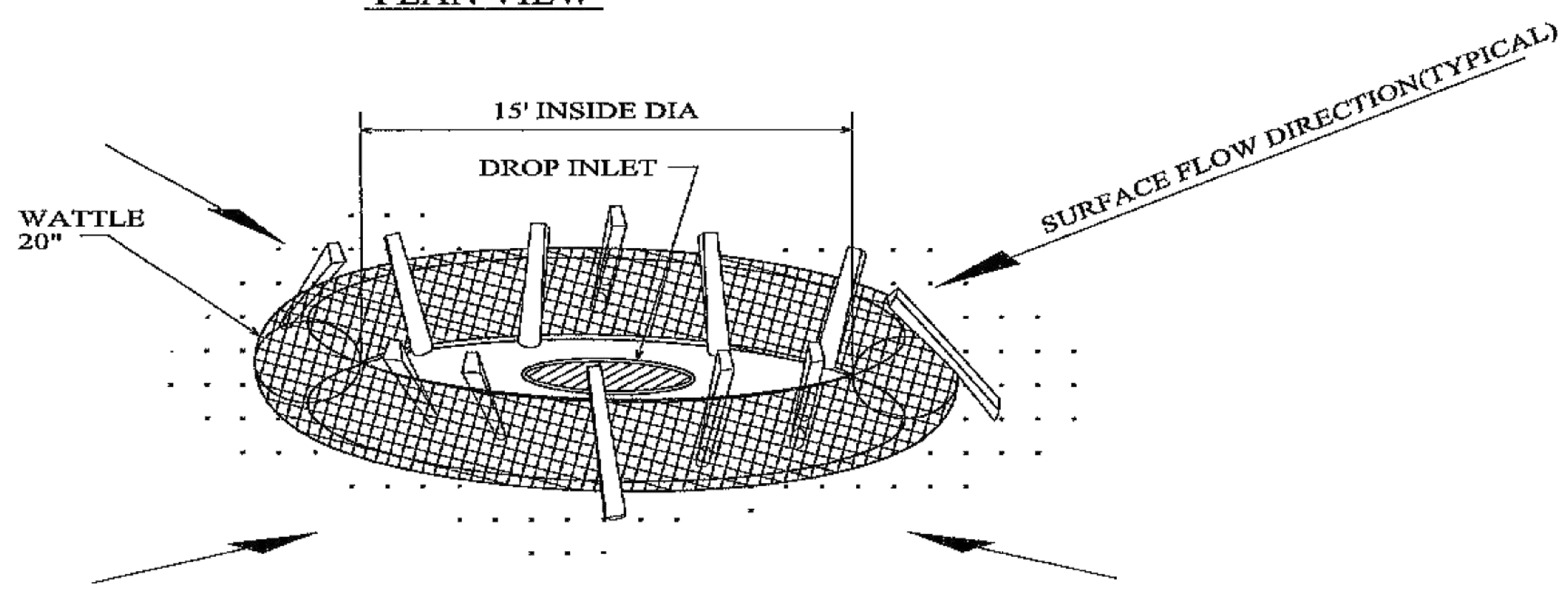
PLAN VIEW



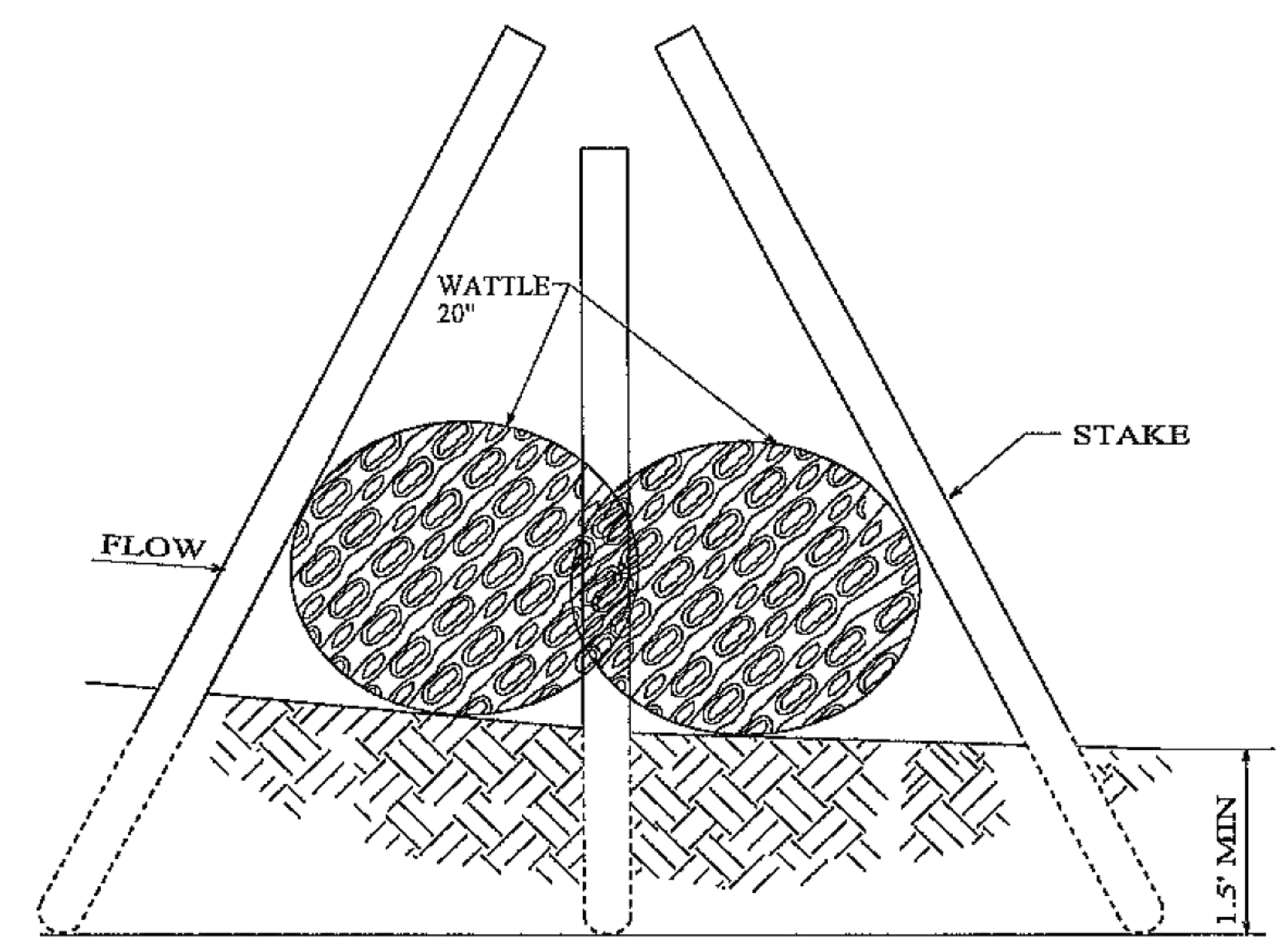
CURB INLET PROTECTION (STAGE 2)
SINGLE OR DOUBLE WING INLET



SECTION B-B



DROP INLET PROTECTION



SECTION A-A

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 (1'MIN,3'MAX).
3. SEE ALDOT LIST II-24 FOR APPROVED WATTLES.
4. SILT FENCE OR SAND BAGS MAY ALSO BE USED FOR THIS APPLICATION. HAY BALES NOT ACCEPTABLE DURING THIS STAGE.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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

REVISIONS:
1. Revised note on "CURB INLET PROTECTION (STAGE 2)" from "5 OF 5" to "4 OF 4" and added "REQUIRED TRENCHING" on SECTION A-A and "SECTION B-B" on 8-24-2011 by J.F.T.
2. Revised and updated "CURB INLET PROTECTION (STAGE 2)", "DROP INLET PROTECTION", "SECTION A-A" and "SECTION B-B" to show new staking w/o trenching on 9-24-2012 by J.F.T.
3. Deleted a "NOTE" and replaced and revised Note 4. Revised and updated "PLAN VIEW" on 7-11-2013 by J.F.T.
4. Updated Special Drawing No. from ESC-400 (SHEET 3 OF 5) to ESC-400-3 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 DETAILS OF WATTLES

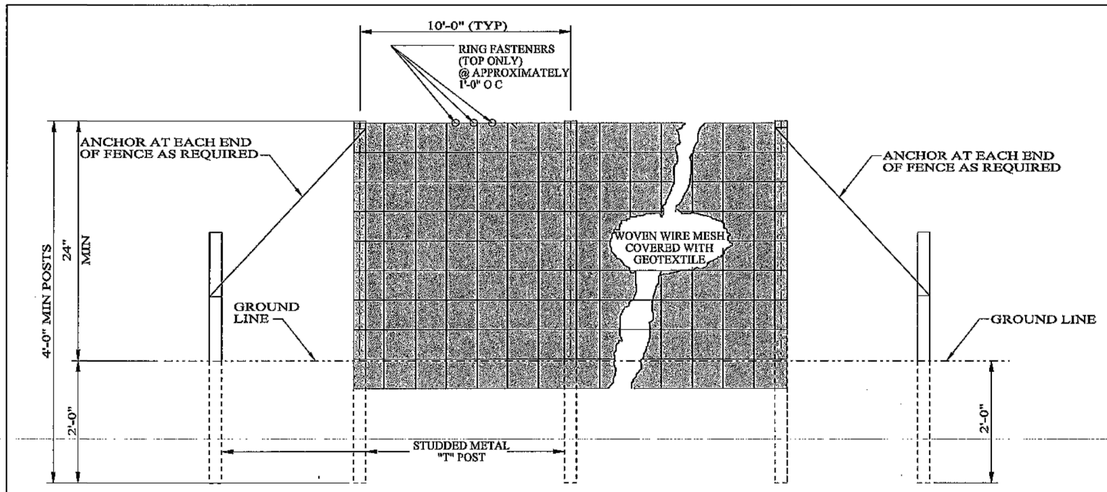
SPECIAL DRAWING NO	INDEX NO
ESC-400-3	66524

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

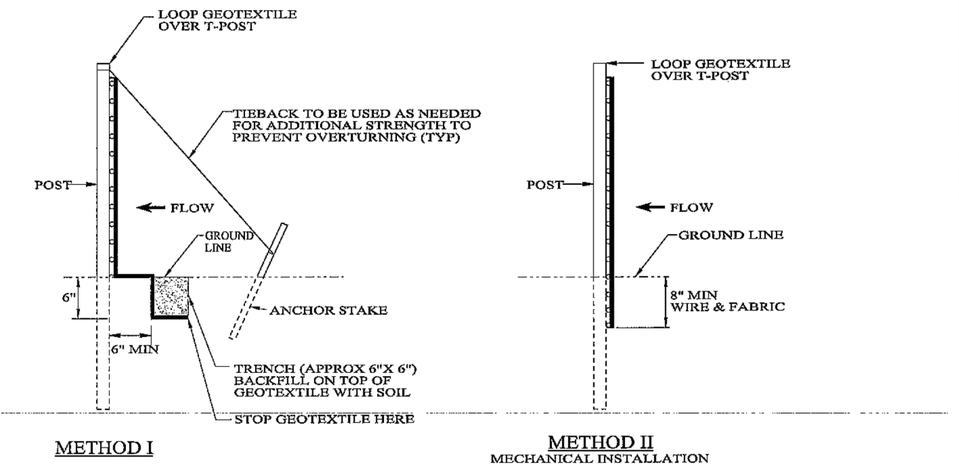
GMC # AHUN250003

CONSTRUCTION DETAILS

C9.5
1



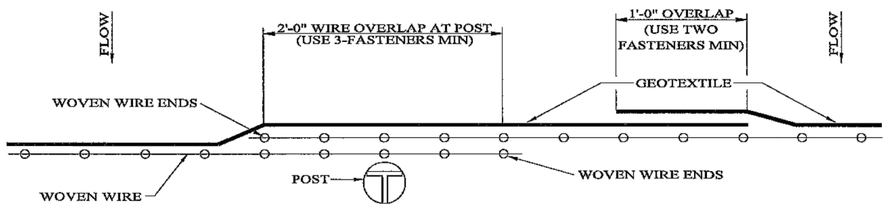
ELEVATION VIEW



METHOD I

METHOD II
MECHANICAL INSTALLATION

SIDE VIEW

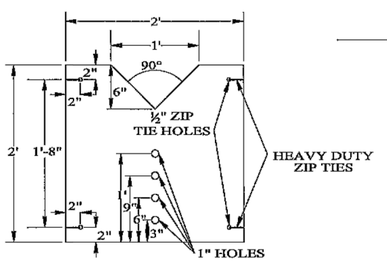


PLAN VIEW

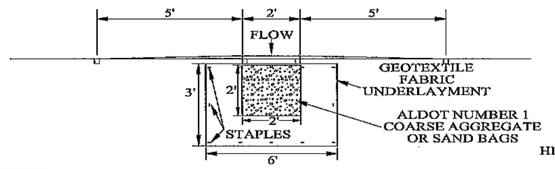
REQUIRED LAPPING

NOTES:

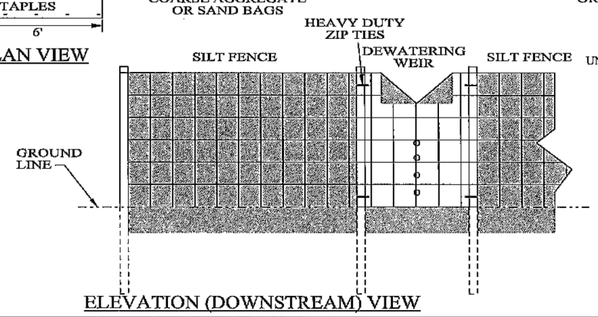
1. METHOD II FENCE INSTALLATION ALSO TO INCLUDE ANCHORS AND TIEBACKS AS REQUIRED.
2. SILT FENCE SHALL BE USED IN AREAS WHERE FLOW IS LOW TO MODERATE OR AS DIRECTED BY THE ENGINEER.
3. SILT FENCES ARE TEMPORARY SEDIMENT CONTROL ITEMS THAT SHALL BE ERECTED DOWN GRADE OF ERODIBLE AREAS SUCH AS NEWLY GRADED 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.



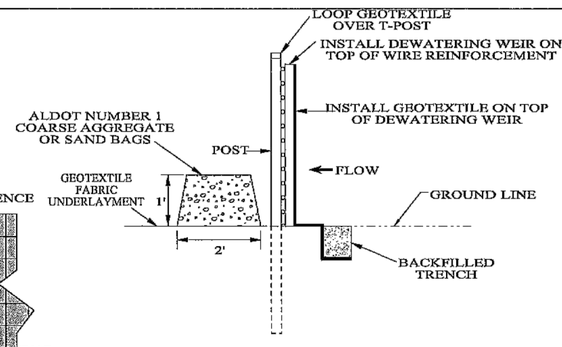
WEIR DETAIL
CONSTRUCTED OF ¼" PLYWOOD



PLAN VIEW



ELEVATION (DOWNSTREAM) VIEW



SIDE VIEW

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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

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	INDEX NO
ESC-200-4	66508

SCHOEL
BIRMINGHAM 1001 22nd Street South Birmingham, Alabama 35205 205.323.9100
HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1220
TUSCALOOSA 3600 Watermelon Road, Ste 202 Northport, AL 35473 205.323.6166
SCHOEL.COM

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

BRIAN K. WISEMAN LICENSED No. 23333 PROFESSIONAL 01-31-2026 CIVIL ENGINEER ALABAMA

CONSTRUCTION DETAILS

C9.6

SCHOEL

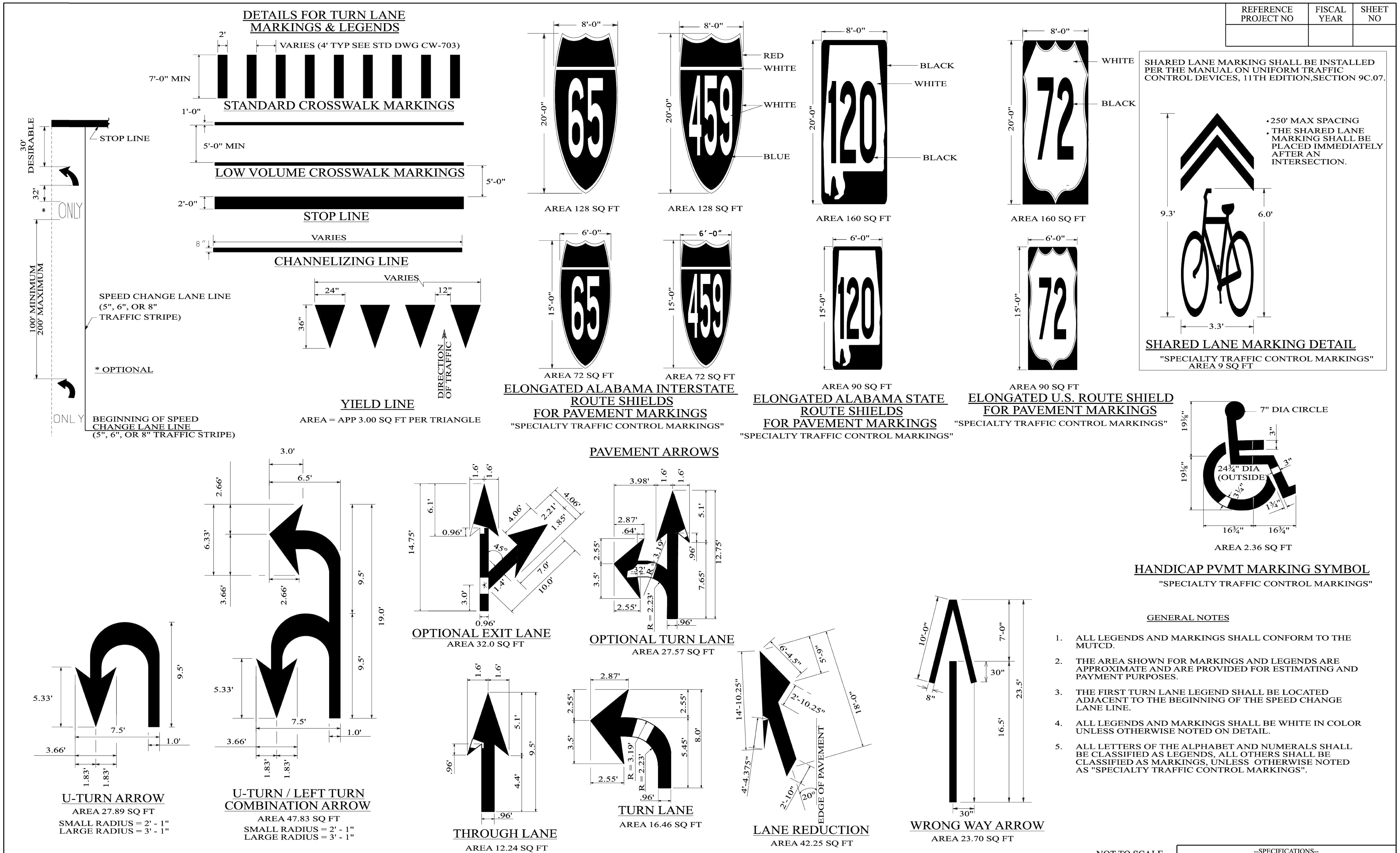
BIRMINGHAM
1001 22nd Street South
Birmingham, Alabama 35205
205.323.6166

HUNTSVILLE
101 Washington Street SE
Huntsville, Alabama 35801
256.539.1221

TUSCALOOSA
3600 Watermelon Road, Ste 202
Northport, Alabama 35473
205.323.6166

SCHOEL.COM

REFERENCE PROJECT NO	FISCAL YEAR	SHEET NO



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
1409 COLISEUM BOULEVARD
MONTGOMERY, AL 36130-3050

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.
7. Updated MUTCD from 2009 to 11TH Edition on 11-19-2025 by C.F.E

Bureau Std Engr: G.L.D.
DRAWN BY:
DATE DRAWN: 11-6-1991
REVISED DATE: 11-19-2025

DESIGN BUREAU SPECIAL DRAWING
PAVEMENT LEGENDS AND MARKINGS

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

INDEX NO
70302

GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

CONSTRUCTION DETAILS

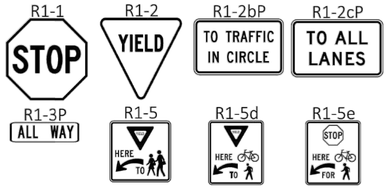
C9.7

SCHOEL
BIRMINGHAM 1001 22nd Street South Birmingham, Alabama 35205 205.323.6160
HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1225
TUSCALOOSA 3600 Watermelon Road, Ste 202 Northport, Alabama 35473 205.323.6166
SCHOEL.COM

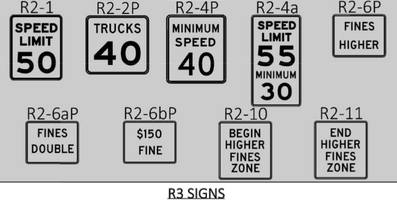
GMC

Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM

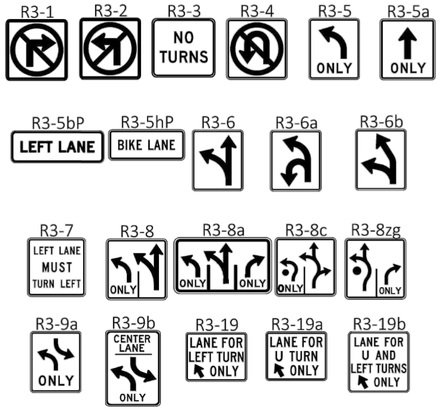
R1 SIGNS



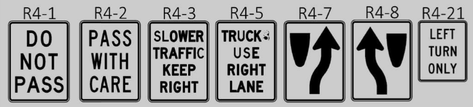
R2 SIGNS



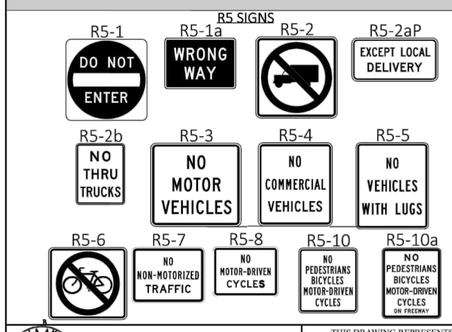
R3 SIGNS



R4 SIGNS



R5 SIGNS



Regulatory Signs		Share-Path		Single-Lane		Multi-lane		Expway		Freeway		Minimum		Oversized			Color
Sign #	Name	Size	Sq Ft	Size	Sq Ft	Size	Sq Ft	Size	Sq Ft	Size	Sq Ft	Size	Sq Ft	Size	Sq Ft	Reflection Sheet	Background/Symbol
R1-1	Stop	18 x 18	1.86	30 x 30	5.18	36 x 36	7.46	36 x 36	7.46	~	~	30 x 30	5.18	48 x 48	13.25	XI	R/W
R1-2	Yield	18 x 18	0.98	36 x 36	3.9	48 x 48	6.93	48 x 48	6.93	60 x 60	10.83	30 x 30	2.71	~	~	XI	W/R
R1-2bP	To Traffic in Circle (Plaque)	~	~	24 x 15	2.5	24 x 15	2.5	~	~	~	~	24 x 15	2.5	36 x 24	6	XI	W/Bk
R1-2cP	To All Lanes (Plaque)	~	~	24 x 15	2.5	24 x 15	2.5	~	~	~	~	24 x 15	2.5	36 x 24	6	XI	W/Bk
R1-3P	All Way (Plaque)	~	~	18 x 6	0.75	18 x 6	0.75	~	~	~	~	~	~	30 x 12	2.5	XI	R/W
R1-5	Yield Here to Peds	~	~	~	~	36 x 36	9	~	~	~	~	~	~	36 x 36	9	XI	W/Bk,R
R1-5d	Yield Here for Trail Crossing	~	~	~	~	36 x 42	10.5	~	~	~	~	~	~	~	~	XI	W/Bk,R
R1-5e	Stop Here for Trail Crossing	~	~	~	~	36 x 42	10.5	~	~	~	~	~	~	~	~	XI	W/Bk,R
R2-1	Speed Limit	~	~	24 x 30	5	30 x 36	7.5	36 x 48	12	48 x 60	20	18 x 24	3	30 x 36	7.5	IV	W/Bk
R2-2P	Truck Speed Limit (Plaque)	~	~	24 x 24	4	24 x 24	4	36 x 36	9	48 x 48	16	~	~	36 x 36	9	IV	W/Bk
R2-4P	Minimum Speed Limit (Plaque)	~	~	24 x 24	4	24 x 24	4	36 x 36	9	48 x 48	16	~	~	36 x 36	9	IV	W/Bk
R2-4a	Combined Max and Min speed Limit	~	~	24 x 48	8	24 x 48	8	36 x 72	18	48 x 96	32	~	~	36 x 72	18	IV	W/Bk
R2-6P	Fines Higher (Plaque)	~	~	24 x 18	3	24 x 18	3	36 x 24	6	48 x 36	12	~	~	36 x 24	6	IV	W/Bk
R2-6aP	Fines Double (Plaque)	~	~	24 x 18	3	24 x 18	3	36 x 24	6	48 x 36	12	~	~	36 x 24	6	IV	W/Bk
R2-6bP	$XX Fine (Plaque)	~	~	24 x 18	3	24 x 18	3	36 x 24	6	48 x 36	12	~	~	36 x 24	6	IV	W/Bk
R2-10	Begin Higher Fines Zone	~	~	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	~	~	36 x 48	12	IV	W/Bk
R2-11	End Higher Fines Zone	~	~	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	~	~	36 x 48	12	IV	W/Bk
R3-1	No Right Turn	~	~	24 x 24	4	36 x 36	9	36 x 36	9	~	~	~	~	48 x 48	16	XI	W/Bk,R
R3-2	No Left Turn	~	~	24 x 24	4	36 x 36	9	36 x 36	9	~	~	~	~	48 x 48	16	XI	W/Bk,R
R3-3	No Turns	~	~	24 x 24	4	36 x 36	9	36 x 36	9	~	~	~	~	48 x 48	16	XI	W/Bk
R3-4	No U-Turns	~	~	24 x 42	4	36 x 36	9	36 x 36	9	~	~	~	~	48 x 48	16	XI	W/Bk,R
R3-5	Left/Right Turn Only	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-5a	Straight Ahead Only Arrow	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-5bP,eP,fP	Left, Center, Right Lane (Plaque)	~	~	30 x 12	2.5	30 x 12	2.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-5hP	Bike Lane (Plaque)	30 x 12	2.5	30 x 12	2.5	30 x 12	2.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-6	Optional Movement Lane Control	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-6a	Optional Movements Lane Control- U and Left Turns	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-6b	Optional Movements Lane Control- Oblique	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-7	Right/Left Lane Must Turn Right/Left	~	~	30 x 30	6.25	36 x 36	9	48 x 48	16	~	~	~	~	48 x 48	16	IV	W/Bk
R3-8	Advance Intersection Lane Control	~	~	30 x 30	6.25	30 x 30	6.25	~	~	~	~	~	~	36 x 36	9	IV	W/Bk
R3-8a,b	Advance Intersection Lane Control	~	~	48 x 30	10	48 x 30	10	~	~	~	~	~	~	60 x 36	15	IV	W/Bk
R3-8c,d,e,f	Advance RoundAbout Lane Control	~	~	36 x 36	9	36 x 36	9	~	~	~	~	~	~	~	~	IV	W/Bk
R3-8zg	Advance Circular Intersection Lane Control (2 lanes)	~	~	36 x 36	9	36 x 36	9	~	~	~	~	~	~	~	~	IV	W/Bk
R3-9a	Two-Way Left Turn Only (Overhead)	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-9b	Two-Way Left Turn Only (Post-mounted)	~	~	24 x 36	6	24 x 36	6	~	~	~	~	~	~	36 x 48	12	IV	W/Bk
R3-19	Lane for Left Turn Only	~	~	30 x 24	5	30 x 24	5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-19a	Lane for U Turn Only	~	~	30 x 24	5	30 x 24	5	~	~	~	~	~	~	~	~	IV	W/Bk
R3-19b	Lane for U and Left Turns Only	~	~	30 x 30	6.25	30 x 30	6.25	~	~	~	~	~	~	~	~	IV	W/Bk
R4-1	Do Not Pass	12 x 18	1.5	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	18 x 24	3	36 x 48	12	IV	W/Bk
R4-2	Pass With Care	12 x 18	1.5	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	18 x 24	3	36 x 48	12	IV	W/Bk
R4-3	Slower Traffic Keep Right	12 x 18	1.5	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	18 x 24	3	36 x 48	12	IV	W/Bk
R4-5	Trucks Use Right Lane	~	~	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	~	~	36 x 48	12	IV	W/Bk
R4-7,a,b	Keep Right	12 x 18	1.5	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	18 x 24	3	36 x 48	12	IV	W/Bk
R4-8,a,b	Keep Left	~	~	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	18 x 24	3	36 x 48	12	IV	W/Bk
R4-21	Right (Left) Turn Only	~	~	24 x 30	5	24 x 30	5	~	~	~	~	~	~	~	~	IV	W/Bk
R5-1	Do Not Enter	~	~	30 x 30	6.25	36 x 36	9	36 x 36	9	48 x 48	16	~	~	36 x 36	9	XI	R/W
R5-1a	Wrong Way	~	~	36 x 24	6	42 x 30	8.75	36 x 24	6	42 x 30	8.75	30 x 18	3.75	42 x 30	8.75	XI	R/W
R5-2	No Trucks	~	~	24 x 24	4	24 x 24	4	30 x 30	6.25	36 x 36	9	~	~	36 x 36	9	IV	W/Bk,R
R5-2aP	Except Local Delivery (Plaque)	~	~	24 x 12	2	24 x 12	2	30 x 15	3.125	36 x 18	4.5	~	~	36 x 18	4.5	IV	W/Bk
R5-2b	No Thru Trucks	~	~	24 x 30	5	24 x 30	5	30 x 36	7.5	36 x 48	12	~	~	36 x 48	12	IV	W/Bk
R5-3	No Motor Vehicles	24 x 24	4	24 x 24	4	24 x 24	4	~	~	~	~	24 x 24	4	~	~	IV	W/Bk
R5-4	No Commercial Vehicles	~	~	24 x 30	5	24 x 30	5	36 x 48	12	36 x 48	12	~	~	~	~	IV	W/Bk
R5-5	No Vehicles with Lugs	~	~	24 x 30	5	24 x 30	5	36 x 48	12	48 x 60	20	~	~	~	~	IV	W/Bk
R5-6	No Bicycles	18 x 18	2.25	24 x 24	4	24 x 24	4	30 x 30	6.25	36 x 36	9	24 x 24	4	48 x 48	16	IV	W/Bk,R
R5-7	No Non-Motroized Traffic	~	~	30 x 24	5	30 x 24	5	42 x 24	7	48 x 30	10	~	~	42 x 24	7	IV	W/Bk
R5-8	No Motor-Driven Cycles	~	~	30 x 24	5	30 x 24	5	42 x 24	7	48 x 30	10	~	~	42 x 24	7	IV	W/Bk
R5-10	No Ped ,Bicycles, Motor-Driven Cycles	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk
R5-10a	No Ped, Bicycles, Motor-Driven Cycles on Freeway	~	~	30 x 36	7.5	30 x 36	7.5	~	~	~	~	~	~	~	~	IV	W/Bk

NOTE: FOR SIGN FACE DETAILS AND DIMENSIONS, REFER TO THE LATEST EDITION OF THE STANDARD HIGHWAY SIGNS PUBLICATION. NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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

REVISIONS:

Bureau Std Engr: G.L.D.
DRAWN BY: A.G.K.
DATE DRAWN: 10-07-2025
REVISED DATE:

DESIGN BUREAU SPECIAL DRAWING
Standard Highway Signs

SPECIAL DRAWING NO: SHS-1
INDEX NO: 71060

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

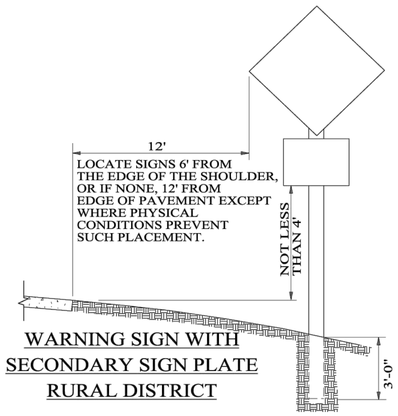
BRADLEY WAYNE WISEMAN
LICENSED
No. 23333
PROFESSIONAL
ENGINEER
ALABAMA
23-2026

CONSTRUCTION DETAILS

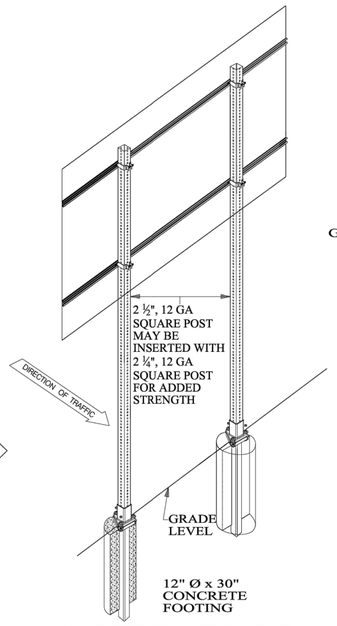
C9.8

SCHOEL
BIRMINGHAM 1001 22nd Street South Birmingham, Alabama 35205 205.323.6160
HUNTSVILLE 101 Washington Street SE Huntsville, Alabama 35801 256.539.1225
TUSCALOOSA 3600 Watermelon Road, Ste 202 Northport, Alabama 35473 205.323.6166
SCHOEL.COM

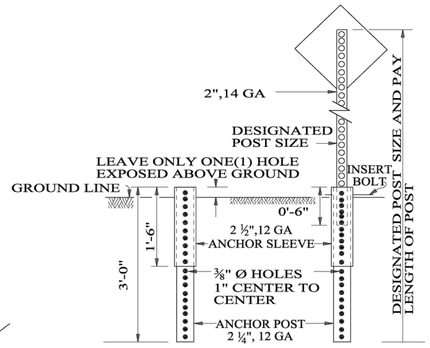
GMC
Goodwyn Mills Cawood, LLC
117 Jefferson Street North
Huntsville, AL 35801
T 256.539.3431
GMCNETWORK.COM



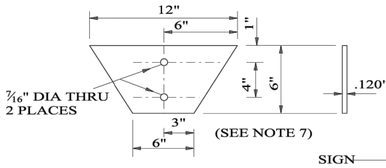
WARNING SIGN WITH SECONDARY SIGN PLATE RURAL DISTRICT



CONCRETE FOOTING FOR SQUARE TUBULAR POST FOR MOUNTING

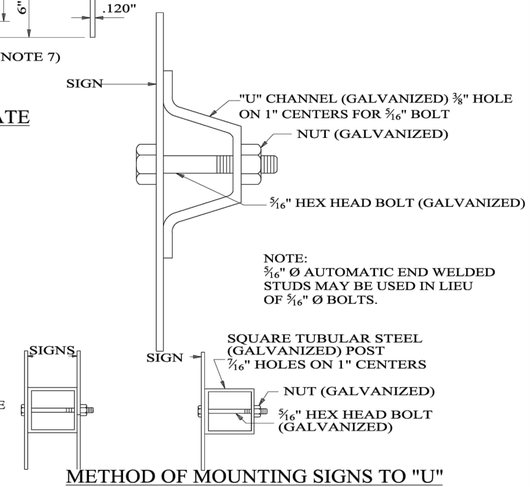


TUBULAR SHAPE ANCHOR

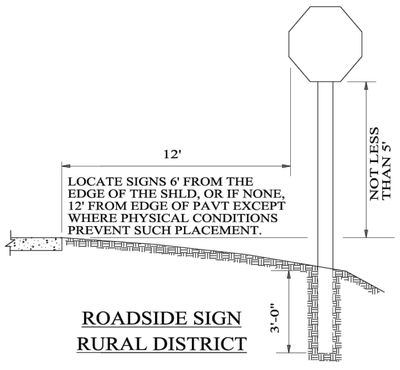


LARGE ANCHOR PLATE

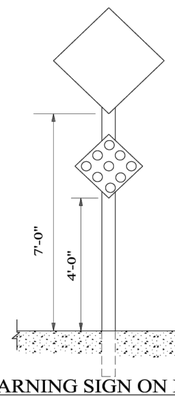
IF AN ANCHOR SLEEVE IS REQUIRED IT SHALL BE 2½", 12 GAUGE. ANCHOR SLEEVES WILL NOT BE REQUIRED IN THE FOLLOWING SITUATIONS: (a) WHERE THE ANCHOR POST IS SET 48" INTO THE GROUND, OR IS BEING PLACED IN A PAVED SURFACE, SUCH AS A SIDEWALK. (b) WHERE THE SIGN WILL BE AT A LOCATION NOT LIKELY TO BE STRUCK 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

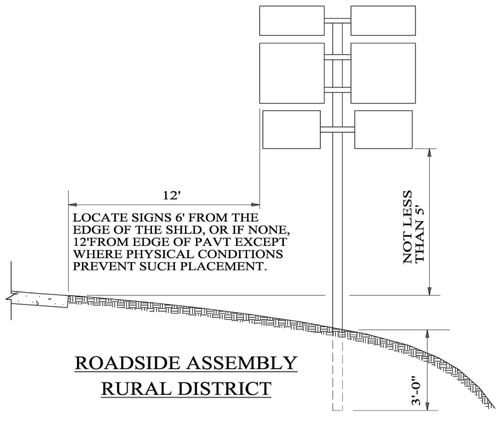


ROADSIDE SIGN RURAL DISTRICT

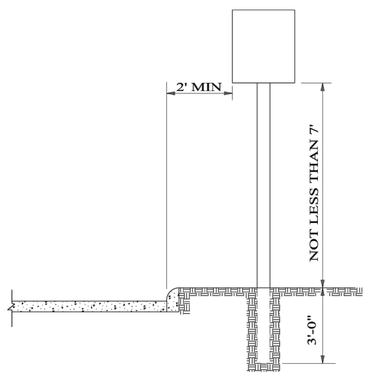


WARNING SIGN ON ISLAND IN LINE OF TRAFFIC

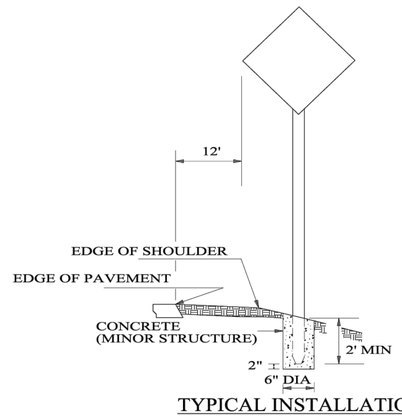
METHOD OF MOUNTING SIGNS BACK TO BACK ON "U" CHANNEL POST
(SEE SINGLE MOUNTED SIGN FOR DETAILS OF POST, NUTS, BOLTS, ETC.)



ROADSIDE ASSEMBLY RURAL DISTRICT



ROADSIDE SIGN BUSINESS OR RESIDENCE DISTRICT



TYPICAL INSTALLATION ROCK SHOULDER

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.

NOT TO SCALE

--SPECIFICATIONS--
CURRENT ALABAMA DEPARTMENT OF TRANSPORTATION

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

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

ISSUE	DATE
100% CONSTRUCTION DOCUMENTS	1/9/2026
1 ADDENDUM 3	1/23/2026

DRAWN BY: J. GARNER
CHECKED BY: B. WISEMAN

ASHVILLE FIRE STATION #2
222 7TH Avenue North
Ashville, AL 35953

GMC # AHUN250003

ALABAMA LICENSED No. 23333 PROFESSIONAL 1-23-2026 ENGINEER MATTHEW WISEMAN

CONSTRUCTION DETAILS

C9.9