

DRAINAGE & PAVING IMPROVEMENTS FOR THE CITY OF FOLKSTON CHARLTON COUNTY, GEORGIA DATE: APRIL 21, 2025

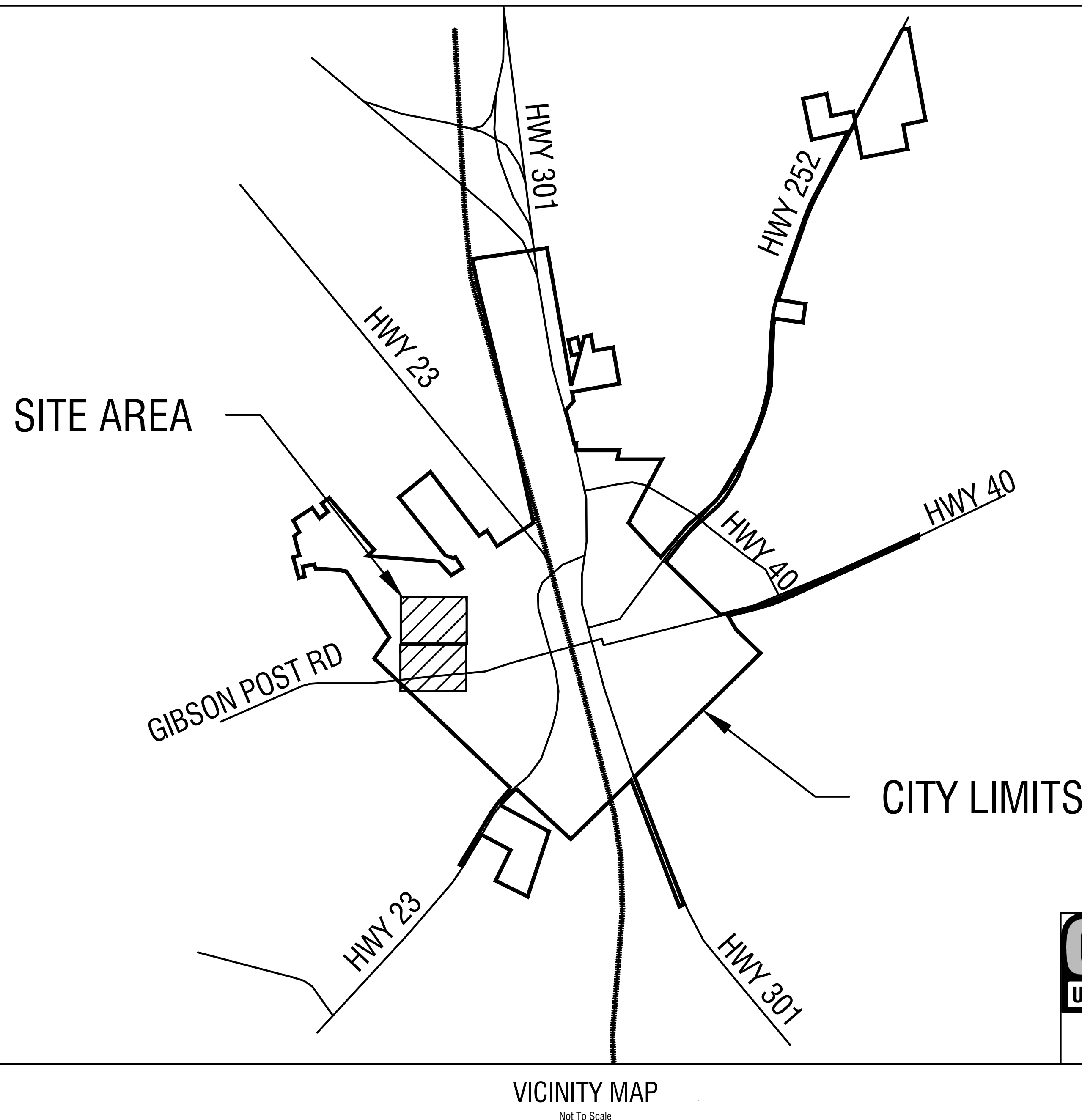
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DESCRIPTION

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SHEET

DRAWING LEGEND

DESCRIPTION	PROPOSED	EXISTING
SANITARY SEWER	—SS—	—SS—
UNDERGROUND WATER LINE	—W—	—W—
FORCE MAIN	—FM—	—FM—
STORM DRAINAGE PIPE	—SD—	—SD—
UNDERGROUND TELEPHONE LINE	—T—	—T—
UNDERGROUND TELEPHONE CONDUIT	—TC—	—TC—
UNDERGROUND GAS LINE	—12"G—	—12"G—
DITCH CENTERLINE	—DC—	—DC—
SPOT ELEVATION	X=90.00	X=90.00
TOP OF CURB ELEVATION	TC=90.00	TC=90.00
FIRE HYDRANT		
SEWER MANHOLE		
WATER VALVE		
TELEPHONE MANHOLE		
LIGHT POLE		
SIGN		
WATER METER		
BENCHMARK		
CONCRETE MONUMENT FOUND		
GUY POLE		
IRON PIN FOUND		
IRON PIN SET		
TELEPHONE PEDESTAL		
POWER POLE		
HANDICAP SPACE		
SEDIMENT BASIN MARKER W/NOTCH		



MINIMUM PROJECT SPECIFICATIONS



ANY JOB DESIGNED BY M.E. SACK ENGINEERING SHALL BE CONSTRUCTED IN ACCORDANCE WITH M.E. SACK ENGINEERING MINIMUM SPECIFICATIONS. IN MUNICIPALITIES WITH THEIR OWN SPECIFICATIONS, THEIR SPECIFICATIONS SHALL SUPERSEDE THE MINIMUM SPECIFICATIONS. LIKEWISE, PROJECTS THAT ARE BID SHALL BE HELD TO THE SPECIFICATIONS WITHIN THE BID DOCUMENT WHICH MAY DIFFER FROM THE MINIMUM SPECIFICATION REQUIREMENTS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THEY HAVE THE APPROPRIATE SPECIFICATIONS FOR EACH PROJECT. OBTAIN THE MINIMUM STANDARDS BY SCANNING THE QR CODE OR CLICKING THIS LINK: <https://www.mesack.com/technical-specifications/>

CONTACT ADMIN@MESACK.COM TO REQUEST CONFIRMATION OF CORRECT SPECIFICATIONS AT ANYTIME.

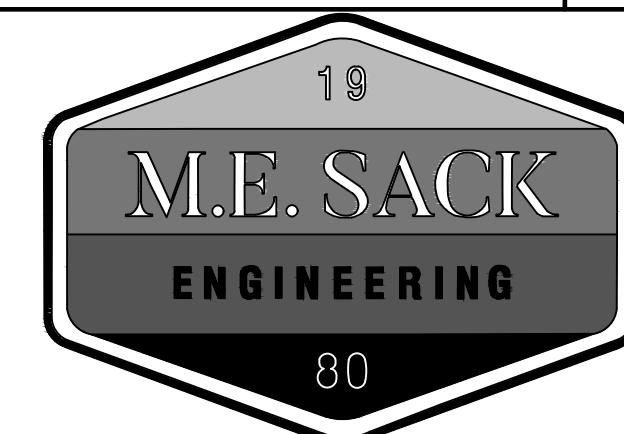
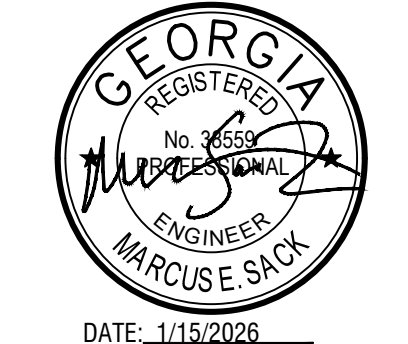
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GPS COORDINATES OF CO:
N: 30.828889°
E: -82.021944°

DATUM: NAVD 88

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DESIGN PROFESSIONAL:



GENERAL NOTES

- ALL EXISTING UTILITIES SHOWN ARE LOCATED FROM BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ACTUAL FIELD LOCATION AND PROTECTION OF EXISTING UTILITIES. OVERHEAD LINES ARE NOT SHOWN FOR CLARITY.
- ALL DISTURBED AREAS TO BE REVEGETATED IMMEDIATELY AFTER CONSTRUCTION, IN ACCORDANCE WITH THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA.
- ALL EROSION AND SEDIMENTATION CONTROL STRUCTURES SHALL BE INSTALLED PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY PROPERTY CORNERS, RIGHT OF WAY MONUMENTS, SIGNS OR OTHER STRUCTURES DISTURBED DURING CONSTRUCTION.
- ALL TRAFFIC AND SIGNAGE CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES, MUTCD, CURRENT EDITION.

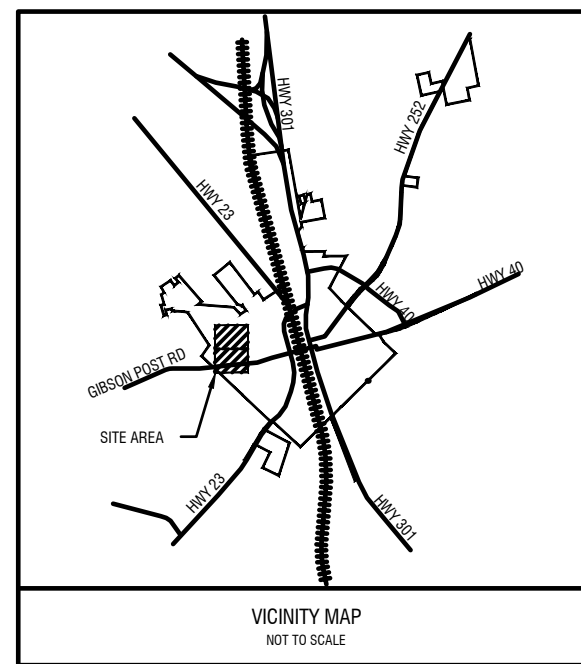


REVISION NO.	DATE	DESCRIPTION

JOB NO. 2023-01PRJ

COVER SHEET

PLOT DATE: January 8, 2026



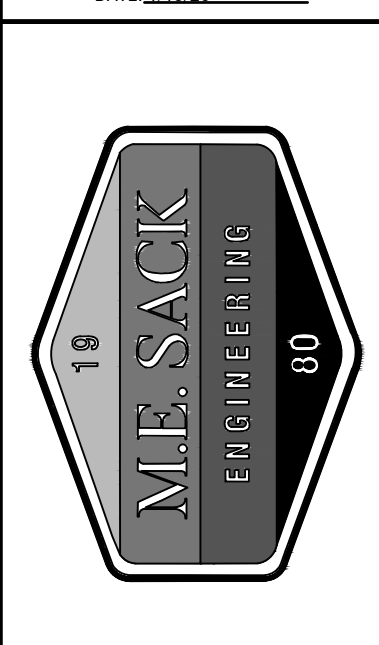
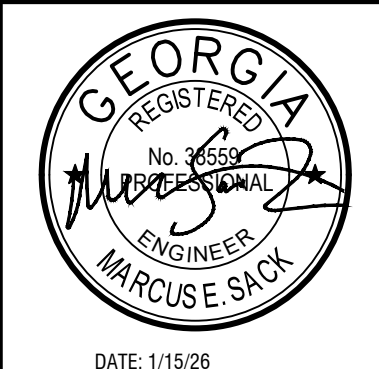
VICINITY MAP
NOT TO SCALE



REVISIONS:

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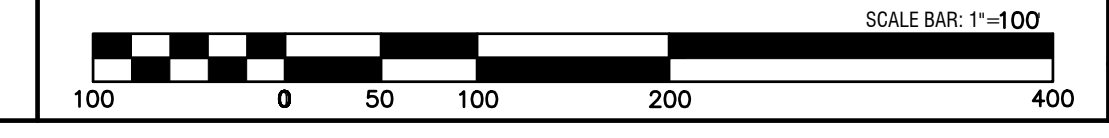
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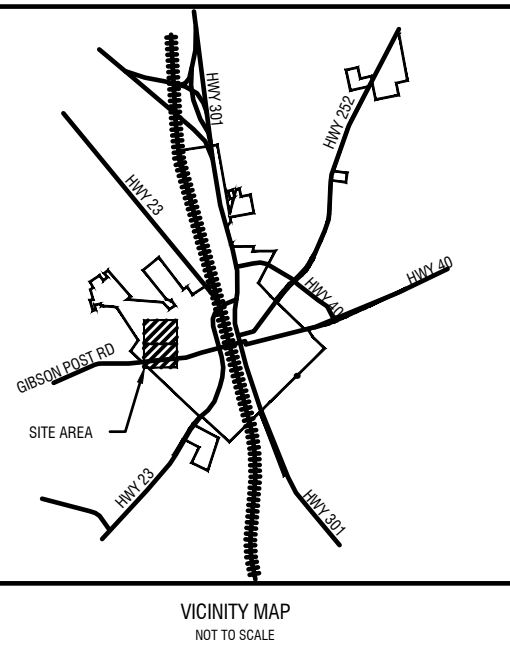
DRAINAGE AND PAVING IMPROVEMENTS

OVERALL EXISTING

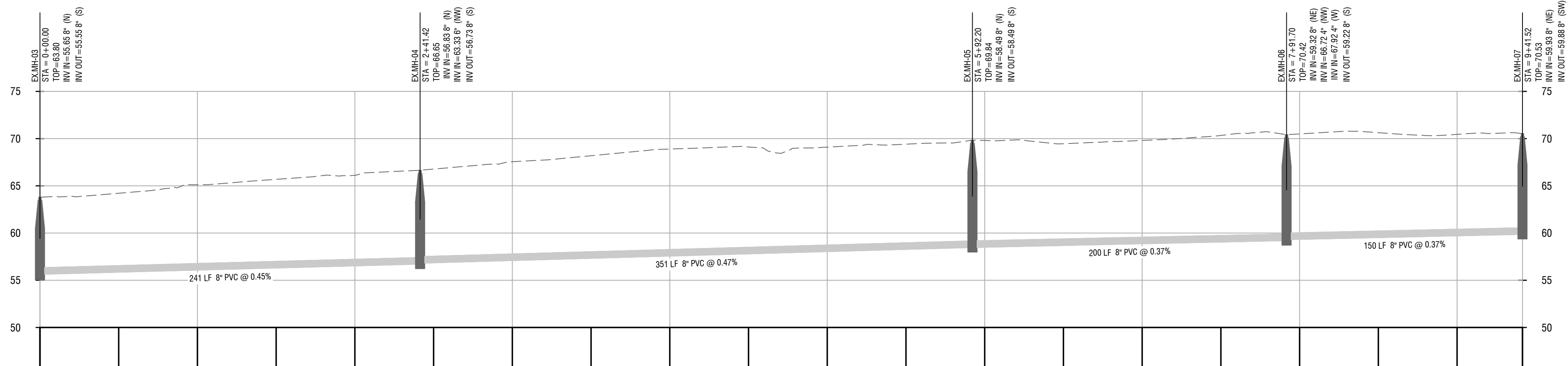
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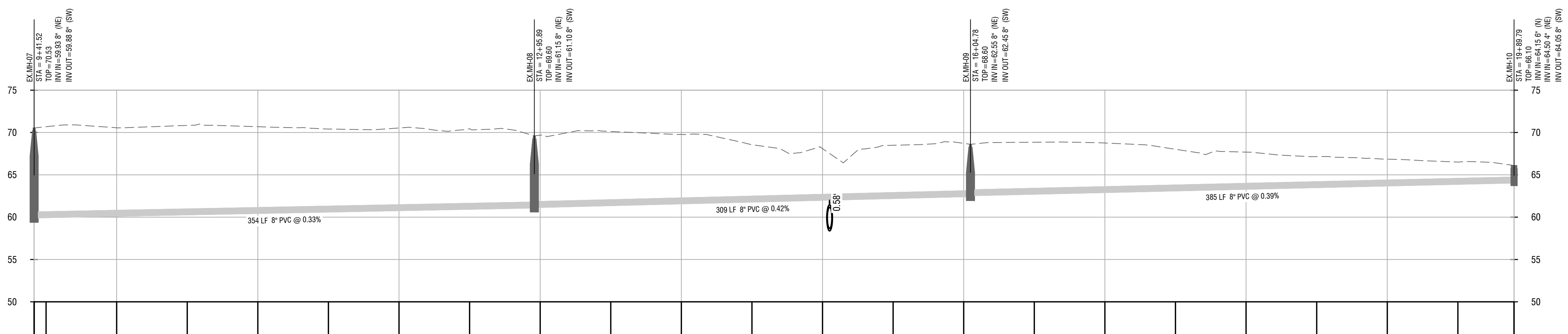




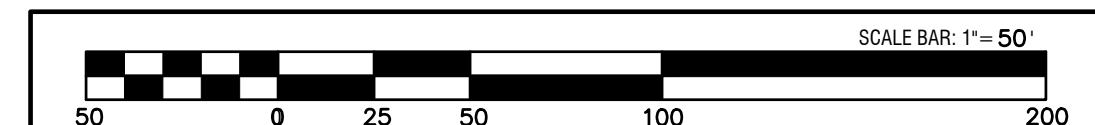
VICINITY MAP
NOT TO SCALE



SL-EX-RUN-01 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=30'



SL-EX-RUN-01 PROFILE
VERT. SCALE: 1"=5'
HORIZ SCALE: 1"=30'



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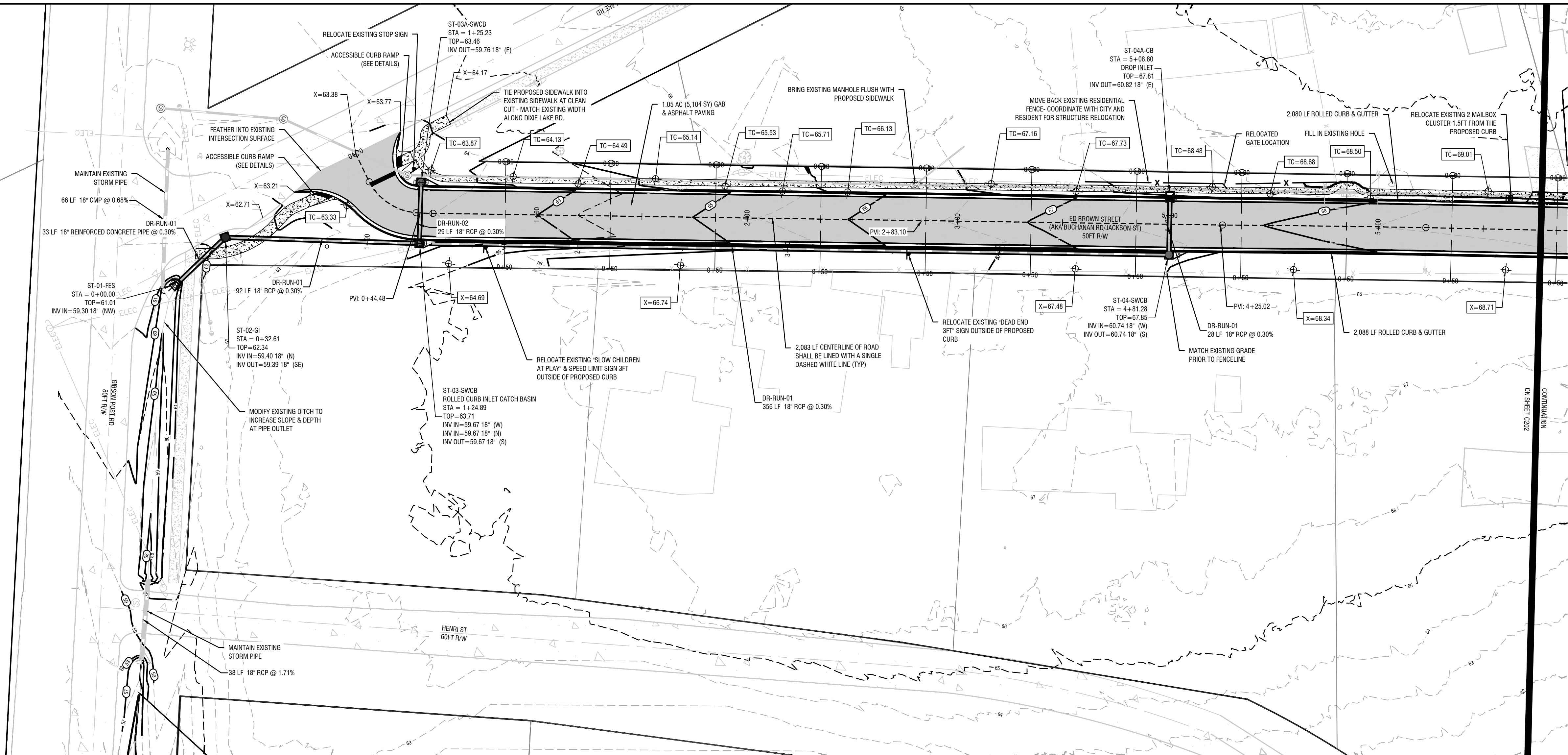
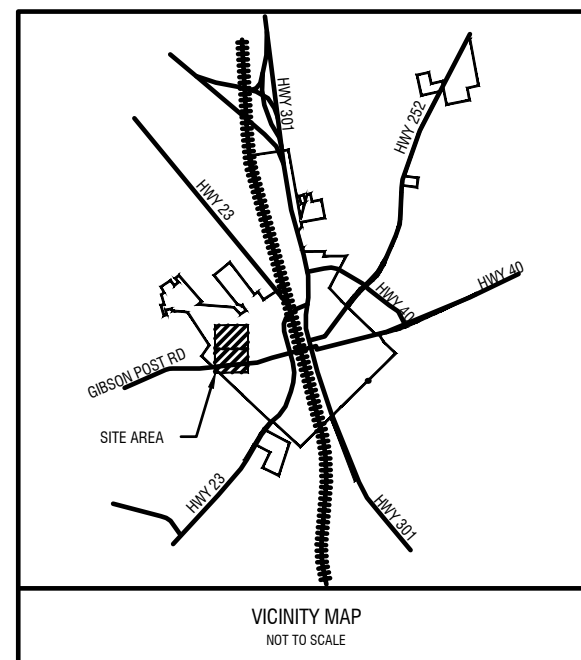
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**DRAINAGE
AND PAVING
IMPROVEMENTS**

EXISTING
SEWER
PROFILES

C103

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GUTTER SPREAD CALCULATIONS
(10 YR STORM/MEASURED FROM EDGE OF PAVEMENT)

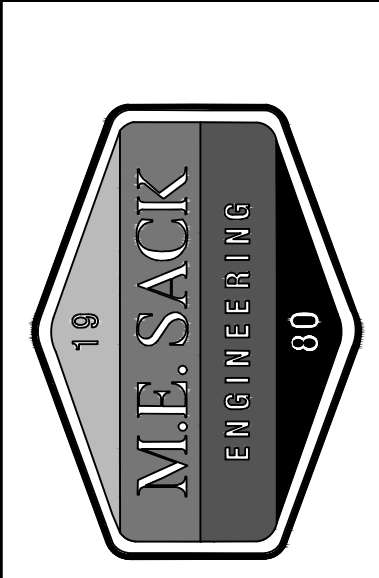
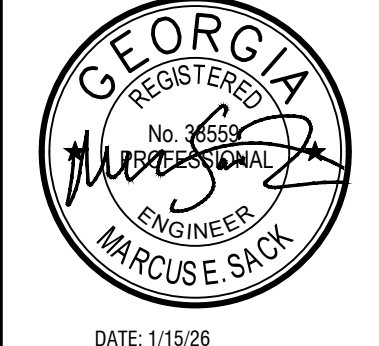
BOX ID	TOTAL FLOW	GUTTER SPREAD
ST-03-SWCB	0.60 CFS	1.49 FT
ST-03A-SWCB	0.60 CFS	1.49 FT
ST-04-CB	1.25 CFS	5.33 FT
ST-04A-SWCB	1.25 CFS	5.33 FT

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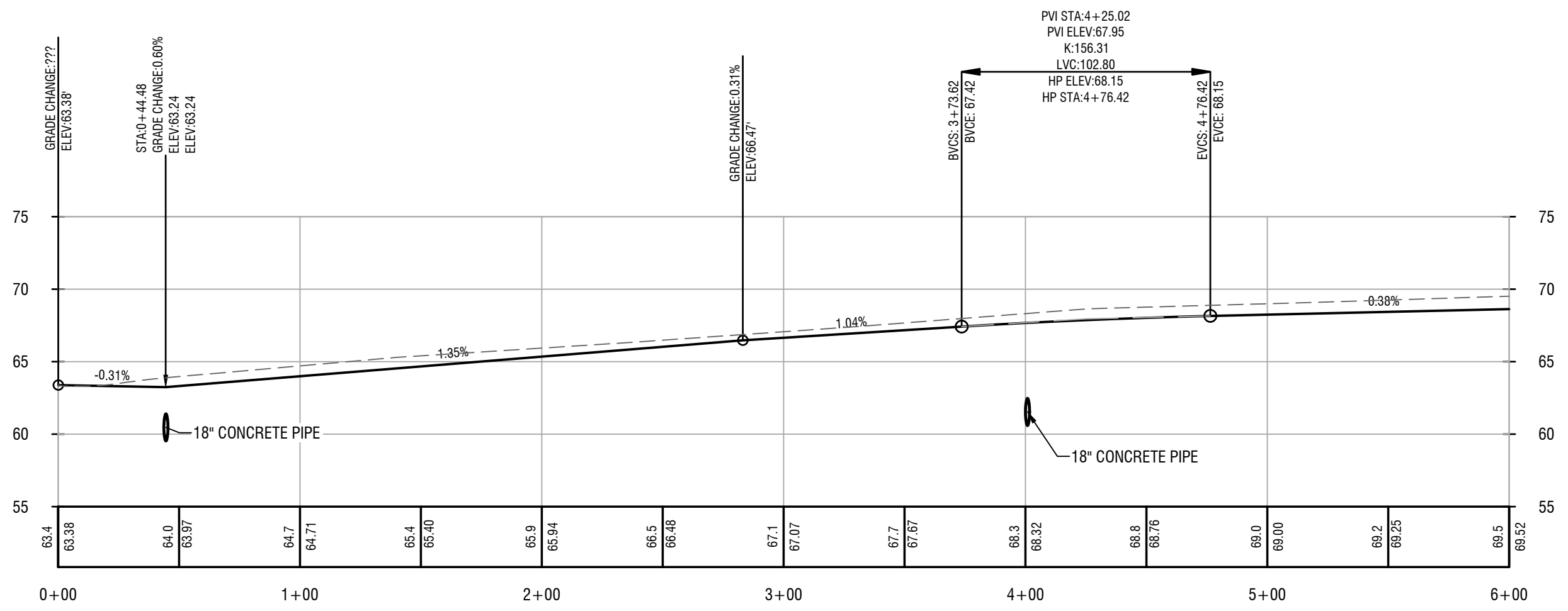
DRAINAGE AND PAVING IMPROVEMENTS

ROAD PLAN & PROFILE

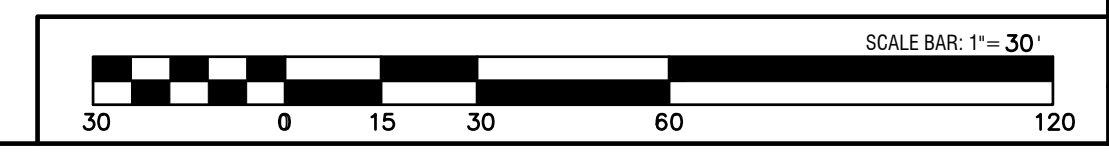
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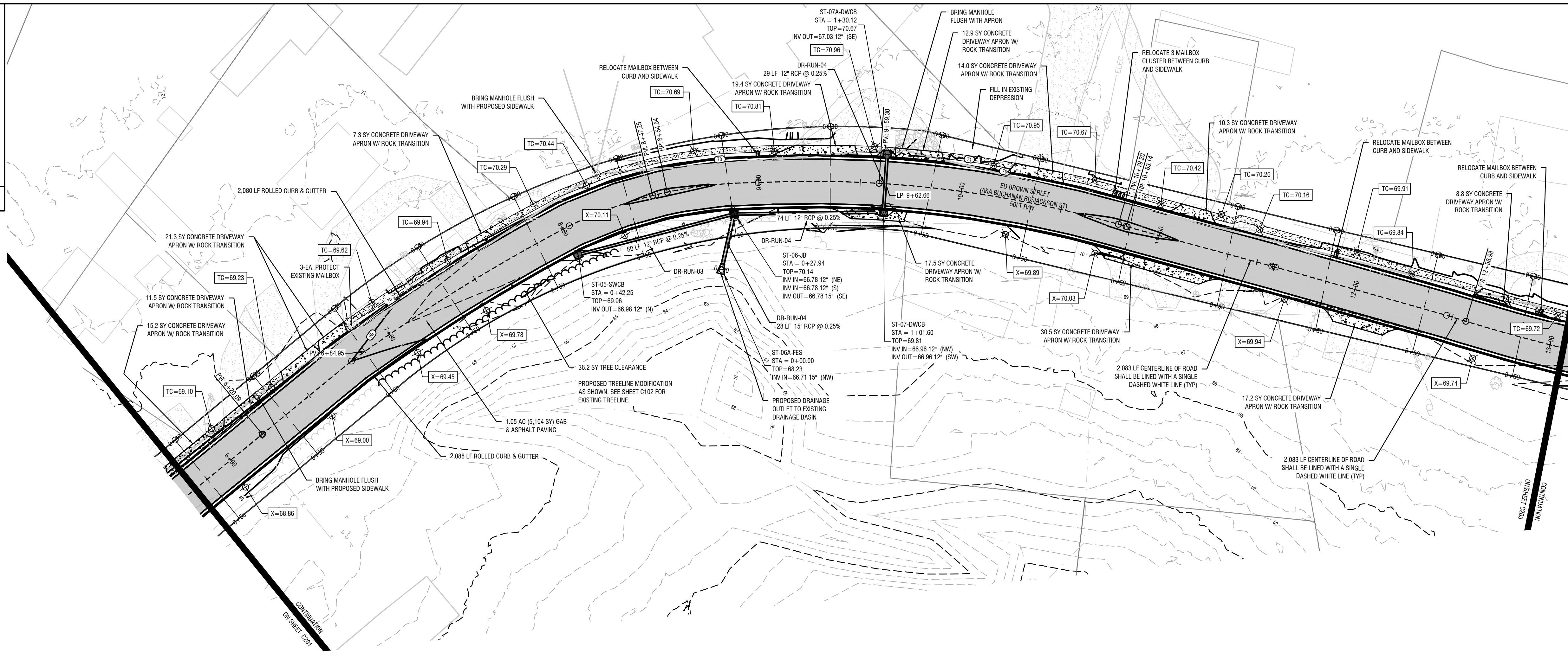
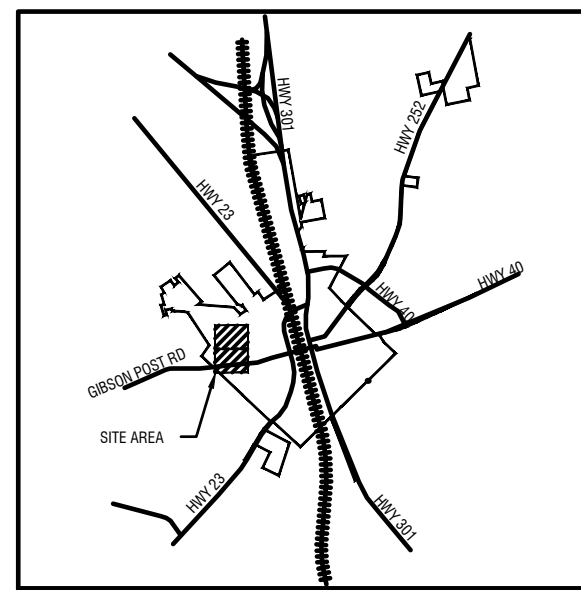
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- NOTES:**
- CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. DEPTH OF THE WATERLINE SHALL BE DETERMINED PRIOR TO CONSTRUCTION AND ANY UTILITY CONFLICTS SHALL BE COMMUNICATED WITH THE ENGINEER.
 - ROLLING CURBS SHALL BE MAINTAINED IN FRONT OF EACH RESIDENTIAL ACCESS DRIVE WITH AN EXTENDED CONCRETE APRON AND SMOOTH ROCK TRANSITION AT THE END OF EACH EXISTING GRAVEL & DIRT DRIVEWAY.
 - ALL RESIDENTIAL ACCESS DRIVES SHALL BE GRADED WITHIN THE RIGHT OF WAY TO SLOPE TO THE NEW ROAD ELEVATION. THE MATERIAL OF THE RESIDENTIAL ACCESS DRIVES SHALL BE REPLACED WITH APPROVED MATERIAL, MATCHING THE EXISTING DRIVEWAY MATERIAL.
 - ANY DRIVEWAYS DISTURBED BEYOND CONCRETE APRON SHALL BE REPAIRED WITH SIMILAR TO EXISTING MATERIALS WITHIN THE RIGHT OF WAY, SLOPED TO THE ELEVATION OF THE ROAD PAVEMENT.
 - ALL CATCH BASINS, SINGLE-WING CATCH BASINS, AND DOUBLE WING CATCH BASINS ALONG THE CURB SHALL INCLUDE 10FT LONG UNDERDRAINS ON EITHER SIDE OF THE STRUCTURES AS SHOWN.
 - CURB & GUTTER SHALL TERMINATE AT THE SOUTH END OF ED BROWN STREET, TRANSITIONING TO MATCH THE EDGE OF ROAD ALONG DIXIE LAKE ROAD. THE PROPOSED PAVING SHALL FEATHER INTO EXISTING PAVEMENT.
 - CONTRACTOR SHALL MINIMIZE IMPACT ON RESIDENTS AND ENSURE THEIR ACCESS TO THE PROJECT AREA. EXISTING ROAD ENTRANCE SHALL BE MAINTAINED UNTIL THE PROPOSED ROAD ENTRANCE IS COMPLETE AND PAVED FOR ACCESS. ROAD SHALL BE GRADED AND PAVED ONE LANE AT A TIME TO ENSURE MINIMAL IMPACT ON RESIDENTS. EXISTING WATERLINES BELOW ROAD CONSTRUCTION SHALL BE PROTECTED WITH COMPACTED CRUSHED GRAVEL.
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 - CONTRACTOR SHALL CREATE TRAFFIC CONTROL PLAN WHICH ALLOWS COMPLETE ACCESS FOR RESIDENTS. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION.



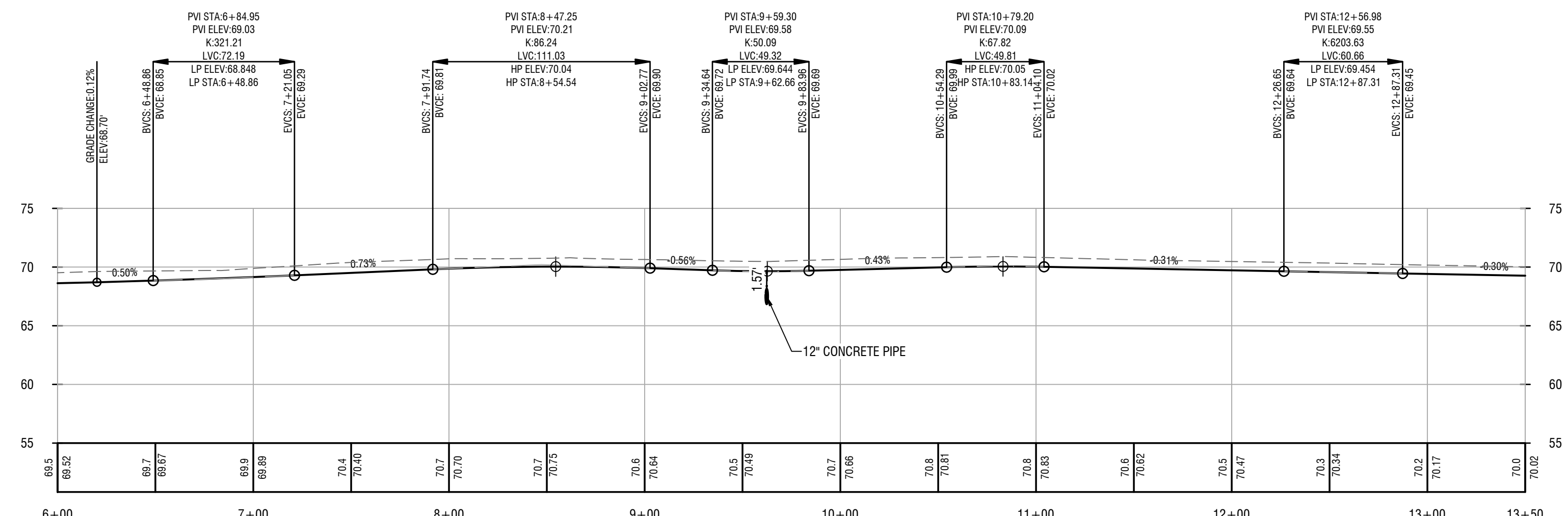
ED BROWN STREET PROFILE
 VERT. SCALE: 1"=5'
 HORIZ SCALE: 1"=30'





GUTTER SPREAD CALCULATIONS
(10 YR STORM/MEASURED FROM EDGE OF PAVEMENT)

BOX ID	TOTAL FLOW	GUTTER SPREAD
ST-07-DWCB	0.45 CFS	2.80 FT
ST-07A-DWCB	0.45 CFS	2.80 FT



ED BROWN STREET PROFILE
VERT. SCALE: 1"=5'
HORIZ. SCALE: 1"=30'

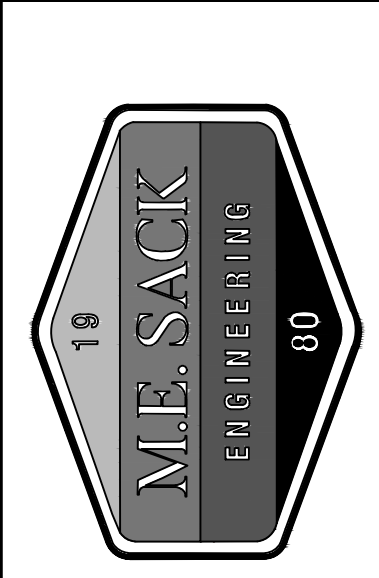
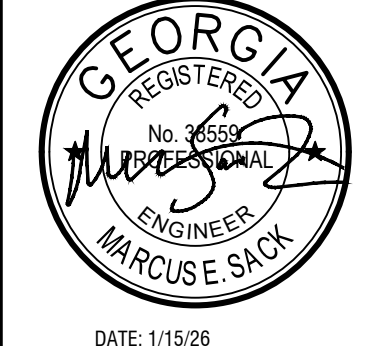
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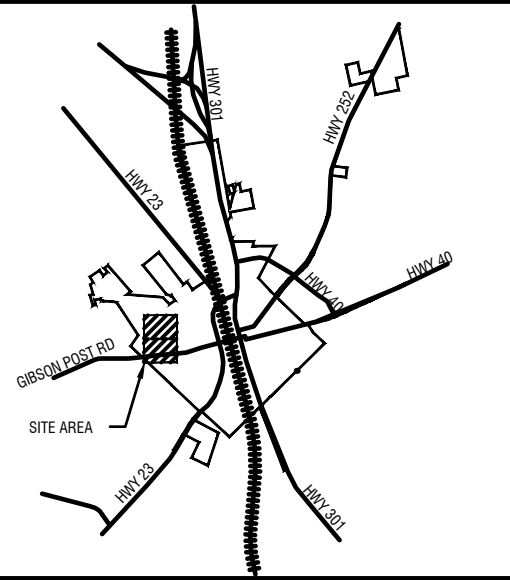
DRAINAGE AND PAVING IMPROVEMENTS

ROAD PLAN & PROFILE

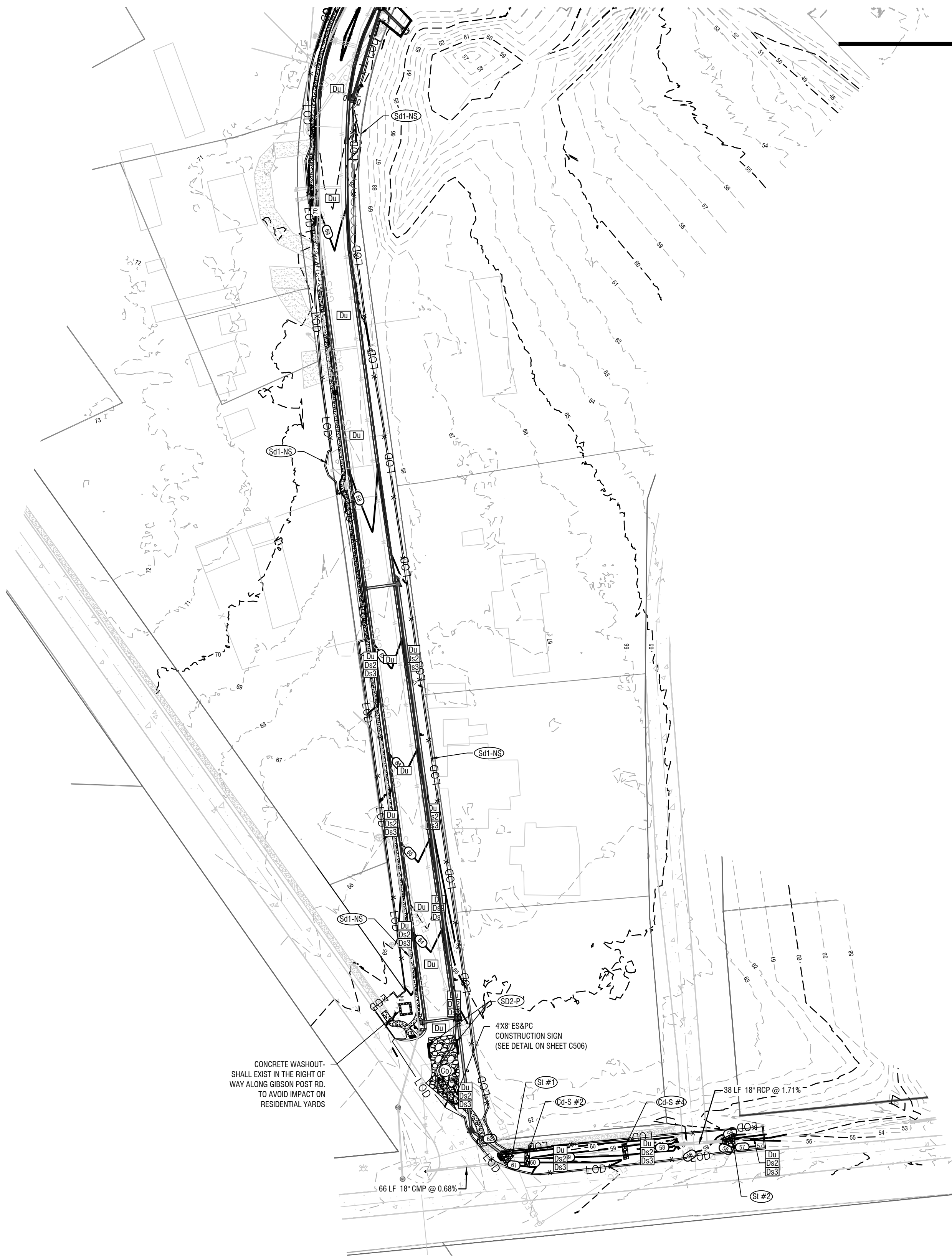
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FILE NO: 2023-01
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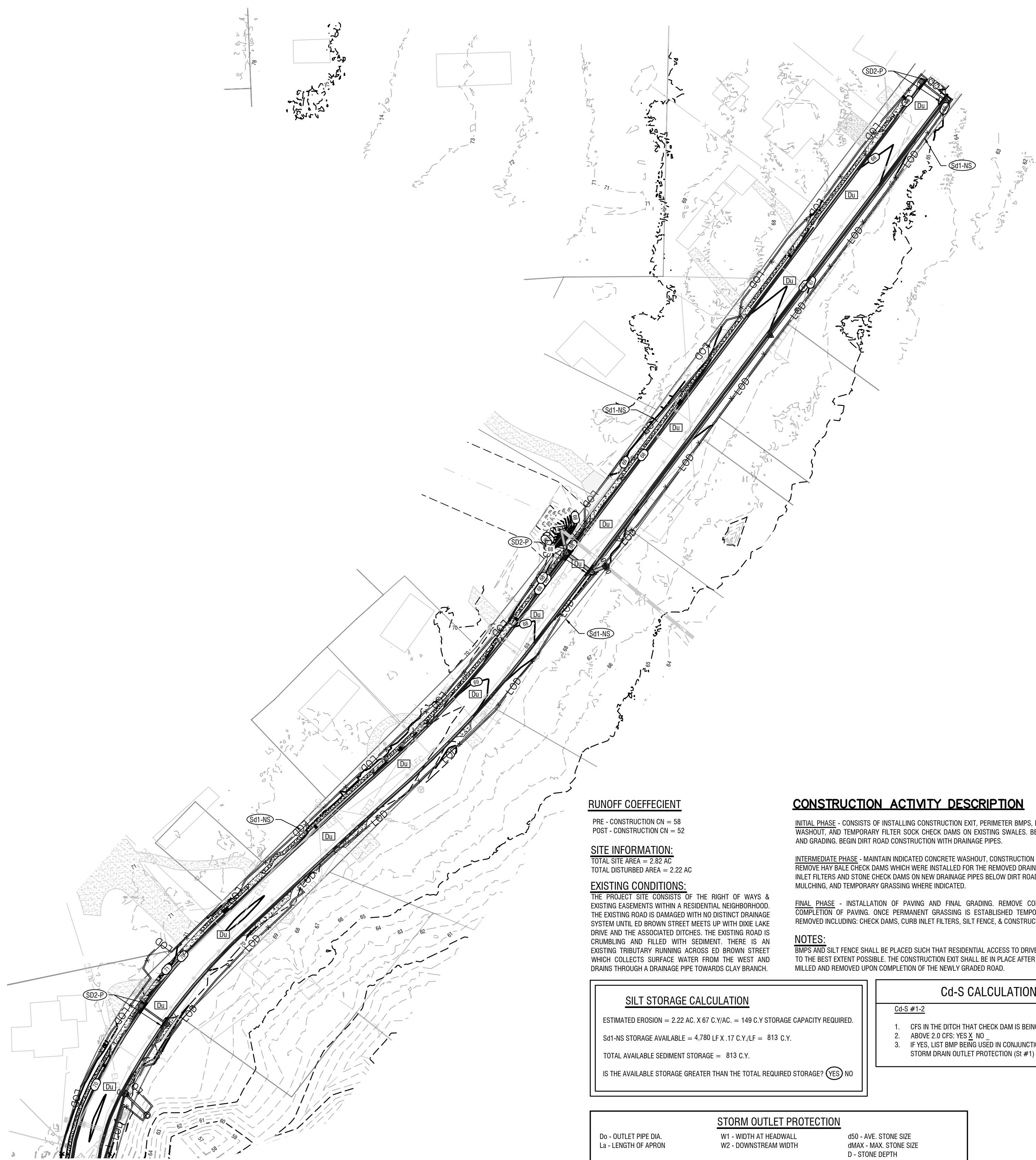


VICINITY MAP
NOT TO SCALE



CONCRETE WASHOUT SHALL EXIST IN THE RIGHT OF WAY ALONG GIBSON POST RD. TO AVOID IMPACT ON RESIDENTIAL YARDS.

CONTINUATION LINE



RUNOFF COEFFICIENT

PRE - CONSTRUCTION CN = 58
POST - CONSTRUCTION CN = 52

SITE INFORMATION:

TOTAL SITE AREA = 2.22 AC
TOTAL DISTURBED AREA = 2.22 AC

EXISTING CONDITIONS:

THE PROJECT SITE CONSISTS OF THE RIGHT OF WAYS & EXISTING EASEMENTS WITHIN A RESIDENTIAL NEIGHBORHOOD. THE EXISTING ROAD IS DAMAGED WITH NO DISTINCT DRAINAGE SYSTEM UNTIL ED BROWN STREET MEETS UP WITH DOXIE LAKE DRIVE AND THE ASSOCIATED DITCHES. THE EXISTING ROAD IS CRUMBING AND FILLED WITH SEDIMENT. THERE IS AN EXISTING TRIBUTARY RUNNING ACROSS ED BROWN STREET WHICH COLLECTS SURFACE WATER FROM THE WEST AND DRAINS THROUGH A DRAINAGE PIPE TOWARDS CLAY BRANCH.

CONSTRUCTION ACTIVITY DESCRIPTION

INITIAL PHASE - CONSISTS OF INSTALLING CONSTRUCTION EXIT, PERIMETER BMPs, DUST CONTROL, CONCRETE WASHOUT, AND TEMPORARY FILTER SOCK CHECK DAMS ON EXISTING SWALES. BEGIN CLEARING, GRUBBING, AND GRADING. BEGIN DIRT ROAD CONSTRUCTION WITH DRAINAGE PIPES.

INTERMEDIATE PHASE - MAINTAIN INDICATED CONCRETE WASHOUT, CONSTRUCTION EXIT, AND SILT FENCE. REMOVE HAY BALE CHECK DAMS WHICH WERE INSTALLED FOR THE REMOVED DRAINAGE PIPES. INSTALL CURB INLET FILTERS AND STONE CHECK DAMS ON NEW DRAINAGE PIPES BELOW DIRT ROAD. USE DUST CONTROL, MULCHING, AND TEMPORARY GRASSING WHERE INDICATED.

FINAL PHASE - INSTALLATION OF PAVING AND FINAL GRADING. REMOVE CONCRETE WASHOUT AFTER COMPLETION OF PAVING. ONCE PERMANENT GRASSING IS ESTABLISHED TEMPORARY MEASURES CAN BE REMOVED INCLUDING: CHECK DAMS, CURB INLET FILTERS, SILT FENCE, & CONSTRUCTION EXITS.

NOTES:

BMPs AND SILT FENCE SHALL BE PLACED SUCH THAT RESIDENTIAL ACCESS TO DRIVEWAYS IS MAINTAINED TO THE BEST EXTENT POSSIBLE. THE CONSTRUCTION EXIT SHALL BE IN PLACE AFTER THE EXISTING ROAD IS MILLED AND REMOVED UPON COMPLETION OF THE NEWLY GRADED ROAD.

SILT STORAGE CALCULATION

ESTIMATED EROSION = 2.22 AC X 67 C.Y./AC. = 149 C.Y. STORAGE CAPACITY REQUIRED.

S#1-NS STORAGE AVAILABLE = 4,780 LF X 17 C.Y./LF = 813 C.Y.

TOTAL AVAILABLE SEDIMENT STORAGE = 813 C.Y.

IS THE AVAILABLE STORAGE GREATER THAN THE TOTAL REQUIRED STORAGE? **YES** NO

Cd-S CALCULATIONS

Cd-S #1-2

- CFS IN THE DITCH THAT CHECK DAM IS BEING USED IN: 9.66 CFS
- ABOVE 2.0 CFS: YES X NO
- IF YES, LIST BMP BEING USED IN CONJUNCTION WITH CHECK DAMS: STORM DRAIN OUTLET PROTECTION (S#1)

STORM OUTLET PROTECTION

Do - OUTLET PIPE DIA.
La - LENGTH OF APRON

W1 - WIDTH AT HEADWALL
W2 - DOWNSTREAM WIDTH

d50 - AVE. STONE SIZE
dMAX - MAX. STONE SIZE
D - STONE DEPTH

STRUCTURE NO.	Do	La	W1	W2	d50	D	FLOW RATE (CFS)	VELOCITY (FPS)
ST #1	18"	11'	4.5'	12.5'	15"	20.0"	9.66	5.47
ST #2	18"	11'	4.5'	12.5'	15"	20.0"	9.83	5.56

DESIGN PROFESSIONAL

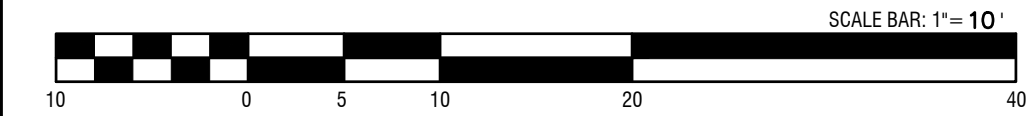
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DRAINAGE AND PAVING IMPROVEMENTS

INTERMEDIATE
EROSION CONTROL

C302

FILE NO: 2023-01
PLOT DATE: January 8, 2026

NPDES PERMIT REQUIREMENTS GAR 10002

PART IV. EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN

4. INSPECTIONS.

A. PERMITTEE REQUIREMENTS.

(1) EACH DAY WHEN ANY TYPE OF CONSTRUCTION ACTIVITY HAS TAKEN PLACE AT A PRIMARY PERMITTEE'S SITE, CERTIFIED PERSONNEL PROVIDED BY THE PRIMARY PERMITTEE SHALL INSPECT: (A) ALL AREAS AT THE PRIMARY PERMITTEE'S SITE WHERE STRUCTURAL PRODUCTS ARE STORED, USED, OR HANDLED FOR SPILL AND LEAKS FROM VEHICLES AND EQUIPMENT; AND (B) ALL LOCATIONS AT THE PRIMARY PERMITTEE'S SITE WHERE VEHICLES ENTER OR EXIT THE SITE FOR EVIDENCE OF OFF-SITE SEDIMENT TRACKING. THESE INSPECTIONS MUST BE CONDUCTED UNTIL A NOTICE OF TERMINATION IS ISSUED.

(2) MEASURED AND RECORD RAINFALL WITHIN DISTURBED AREAS OF THE SITE THAT HAVE NOT MET FINAL STABILIZATION OCCUR EVERY 24 HOURS EXCEPT ANY NON-WORKING SATURDAY, NON-WORKING SUNDAY OR NON-WORKING PERIOD. THE DATA COLLECTED FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MENTIONED ACTIVITY. MEASUREMENT OF RAINFALL MAY BE SUSPENDED IF ALL AREAS OF THE SITE HAVE UNDERGONE FINAL STABILIZATION OR ESTABLISHED A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION.

(3) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT THE FOLLOWING AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM THAT IS 0.5 INCHES RAINFALL OR GREATER WITHIN STORMS THAT ARE AT LEAST 24 HOURS FROM THE END OF ANOTHER NON-WORKING SATURDAY, NON-WORKING SUNDAY OR ANY NON-WORKING FEDERAL HOLIDAY IN WHICH CASE THE INSPECTION SHALL BE COMPLETED BY THE END OF THE NEXT BUSINESS DAY AND/OR WORKING DAY, WHICHEVER OCCURS FIRST: (A) DISTURBED AREAS OF THE PRIMARY PERMITTEE'S CONSTRUCTION SITE; (B) AREAS USED BY THE PRIMARY PERMITTEE FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION; AND (C) STRUCTURAL CONTROL MEASURES. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN APPLICABLE TO THE PRIMARY PERMITTEE'S SITE SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS).

(4) CERTIFIED PERSONNEL (PROVIDED BY THE PRIMARY PERMITTEE) SHALL INSPECT AT LEAST ONCE PER MONTH DURING THE TERM OF THIS PERMIT (I.E., UNTIL A NOTICE OF TERMINATION HAS BEEN SUBMITTED) THE AREAS OF THE SITE THAT HAVE UNDERGONE FINAL STABILIZATION AND A SEEDING OF ANNUAL VEGETATION AND A SEEDING OF TARGET PERENNIALS APPROPRIATE FOR THE REGION. THESE AREAS SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM AND THE RECEIVING WATERS. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. WHERE DISCHARGE LOCATIONS OR POINTS ARE ACCESSIBLE, THEY SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO RECEIVING WATERS).

(5) BASED ON THE RESULTS OF EACH INSPECTION, THE SITE DESCRIPTION AND THE POLLUTION PREVENTION AND CONTROL MEASURES IDENTIFIED IN THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, THE PLAN SHALL BE REVISED AS APPROPRIATE NOT LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION. IMPLEMENTATION OF SUCH CHANGES SHALL BE MADE AS SOON AS PRACTICAL BUT NO LATER THAN SEVEN (7) CALENDAR DAYS FOLLOWING EACH INSPECTION.

(6) A REPORT OF EACH INSPECTION THAT INDICATES THE NAMES OF CERTIFIED PERSONNEL MAKING EACH INSPECTION, THE DATE(S) OF EACH INSPECTION, CONSTRUCTION PHASE (I.E., INITIAL, INTERMEDIATE OR FINAL), MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, AND ACTIONS TAKEN IN ACCORDANCE WITH PART IV.D.4.A.(5), OF THE PERMIT SHALL BE MADE AND RETAINED AT THE SITE OR BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION UNTIL THE ENTIRE SITE OR THAT PORTION OF A CONSTRUCTION PROJECT THAT HAS BEEN PHASED THROUGH FINAL STABILIZATION AND A NOTICE OF TERMINATION IS SUBMITTED TO EPD. SUCH REPORTS SHALL BE READILY AVAILABLE BY END OF THE SECOND BUSINESS DAY AND/OR WORKING DAY AND SHALL IDENTIFY ALL INCIDENTS BEST MANAGEMENT PRACTICES THAT HAVE NOT BEEN PROPERLY INSTALLED AND/OR MAINTAINED AS DESCRIBED IN THE PLAN, WHERE THE REPORT DOES NOT IDENTIFY ANY INCIDENTS, THE INSPECTION REPORT SHALL CONTAIN A STATEMENT THAT THE BEST MANAGEMENT PRACTICES ARE IN COMPLIANCE WITH THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN. THE REPORT SHALL BE SIGNED IN ACCORDANCE WITH PAR V.G.2. OF THIS PERMIT.

5. MAINTENANCE. THE PLAN SHALL INCLUDE A DESCRIPTION OF PROCEDURES TO ENSURE THE TIMELY MAINTENANCE OF VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THE SITE PLAN.

6. SAMPLING REQUIREMENTS. THIS PERMIT REQUIRES THE MONITORING OF NEPHELOMETRIC TURBIDITY IN RECEIVING WATERS OR OUTFALLS IN ACCORDANCE WITH THIS PERMIT. THE FOLLOWING PROCEDURES CONSTITUTE THE EPD'S GUIDELINES FOR SAMPLING TURBIDITY.

A. SAMPLING REQUIREMENTS SHALL INCLUDE THE FOLLOWING:

(1) A USGS TOPOGRAPHIC MAP, A TOPOGRAPHIC MAP OR A DRAWING (REFERRED TO AS A TOPOGRAPHIC MAP) THAT IS SCALE EQUAL TO OR MORE DETAILED THAN A 1:24,000 MAP SHOWING THE LOCATION OF THE SITE OR THE INFRASTRUCTURE CONSTRUCTION, THE LOCATION OF ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES AS SHOWN ON A USGS TOPOGRAPHIC MAP, AND ALL OTHER PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES LOCATED DURING MANDATORY FIELD VERIFICATION, INTO WHICH THE STORM WATER IS DISCHARGED AND (B) THE RECEIVING WATER AND/OR OUTFALL, BUT NOT LOCATIONS FOR EACH REPRESENTATIVE STORMWATER OUTFALL, WHEN THIS PERMIT IS USING TOPOGRAPHIC MAP AND THE RECEIVING WATERS (S) IS NOT SHOWN ON THE USGS TOPOGRAPHIC MAP, THE LOCATION OF THE RECEIVING WATERS(S) MUST BE HAND-DRAWN ON THE USGS TOPOGRAPHIC MAP FROM WHERE THE STORM WATER(S) ENTERS THE RECEIVING WATERS(S) TO THE POINT WHERE THE RECEIVING WATER(S) COMBINES WITH THE FIRST BLUE LINE STREAM SHOWN ON THE USGS TOPOGRAPHIC MAP.

(2) A WRITTEN NARRATIVE OF SITE SPECIFIC ANALYTICAL METHODS USED TO COLLECT, HANDLE AND ANALYZE THE SAMPLES INCLUDING QUALITY CONTROL/QUALITY ASSURANCE PROCEDURES. THIS NARRATIVE MUST INCLUDE PRECISE SAMPLING METHODOLOGY FOR EACH SAMPLING LOCATION.

(3) WHEN THE PERMITTEE HAS DETERMINED THAT SOME OR ALL OUTFALLS WILL BE SAMPLED, A RATIONALE MUST BE INCLUDED ON THE PLAN FOR THE NTU LIMIT(S) SELECTED FROM APPENDIX B. THIS RATIONALE MUST INCLUDE THE SIZE OF THE CONSTRUCTION SITE, THE CALCULATION OF THE SIZE OF THE SURFACE WATER DRAINAGE AREA, AND THE TYPE OF RECEIVING WATERS(S) (I.E., TROUT STREAM OR SUPPORTING WARM WATER FISHERIES); AND

(4) ANY ADDITIONAL INFORMATION EPD DETERMINES NECESSARY TO BE PART OF THE PLAN. EPD WILL PROVIDE WRITTEN NOTICE TO THE PERMITTEE OF THE INFORMATION NECESSARY AND THE TIME LINE FOR SUBMITTAL.

B. SAMPLE TYPE. ALL SAMPLING SHALL BE COLLECTED BY "GRAB SAMPLES" AND THE ANALYSIS OF THESE SAMPLES MUST BE CONDUCTED IN ACCORDANCE WITH METHODOLOGY AND TEST PROCEDURES ESTABLISHED BY 40 CFR PART 136 (UNLESS OTHER TEST PROCEDURES HAVE BEEN APPROVED); THE GUIDANCE DOCUMENT TITLED "NPDES STORM WATER SAMPLING GUIDANCE DOCUMENT, EPA 833-B-92-001" AND GUIDANCE DOCUMENTS THAT MAY BE PREPARED BY THE EPD.

- (1) SAMPLE CONTAINERS SHOULD NOT BE LABELED PRIOR TO COLLECTING THE SAMPLES.
- (2) SAMPLES SHOULD BE WELL MIXED BEFORE TRANSFERRING TO A SECONDARY CONTAINER.
- (3) LARGE MOUTH, WELL CLEANED AND RINSED GLASS OR PLASTIC JARS SHOULD BE USED FOR COLLECTING SAMPLES. THE JARS SHOULD BE CLEANED THOROUGHLY TO AVOID CONTAMINATION.
- (4) MANUAL, AUTOMATIC OR RISING STAGE SAMPLING MAY BE UTILIZED. SAMPLES REQUIRED BY THIS PERMIT SHOULD BE ANALYZED IMMEDIATELY, BUT IN NO CASE LATER THAN 48 HOURS AFTER COLLECTION. HOWEVER, SAMPLES FROM AUTOMATIC SAMPLERS MUST BE COLLECTED NO LATER THAN THE NEXT BUSINESS DAY AFTER THEIR ACTIVATION, UNLESS FLOW THROUGH AUTOMATED ANALYSIS IS UTILIZED. IF AUTOMATIC SAMPLING IS UTILIZED AND THE AUTOMATIC SAMPLER IS NOT ACTIVATED DURING THE QUALIFYING EVENT, THE PERMITTEE MUST UTILIZE MANUAL SAMPLING OR RISING STAGE SAMPLING DURING THE NEXT QUALIFYING EVENT. DILUTION OF SAMPLES IS NOT REQUIRED. SAMPLES MAY BE ANALYZED DIRECTLY WITH A PROPERLY CALIBRATED TURBIDIMETER. SAMPLES ARE NOT REQUIRED TO BE COOLED.
- (5) SAMPLING AND ANALYSIS OF THE RECEIVING WATERS) OR OUTFALLS BELOW THE MINIMUM PROTECTION) STATED IN THIS PERMIT MUST BE REPORTED TO EPD AS SPECIFIED IN PART IV.E.

C. SAMPLING POINTS.

(1) FOR CONSTRUCTION ACTIVITIES THE PRIMARY PERMITTEE MUST SAMPLE ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR ALL OUTFALLS INTO SUCH STREAMS AND OTHER WATER BODIES, OR A COMBINATION THEREOF. HOWEVER, PROVIDED FOR IN AND IN ACCORDANCE WITH PART IV.D.6.C.(2), OF THIS PERMIT, PRIMARY PERMITTEES ON AN INFRASTRUCTURE CONSTRUCTION PROJECT MAY SAMPLE THE REPRESENTATIVE PERENNIAL AND INTERMITTENT STREAMS, OTHER WATER BODIES OR OUTFALLS, OR A COMBINATION THEREOF. SAMPLES TAKEN FOR THE PURPOSE OF COMPLIANCE WITH THIS PERMIT SHALL BE REPRESENTATIVE OF THE MONITORED AREA AND REPRESENTATION OF THE WATER QUALITY OF THE RECEIVING WATERS) AND/OR THE STORM WATER OUTFALLS USING THE FOLLOWING MINIMUM GUIDELINES:

- (A) THE UPSTREAM SAMPLE FOR EACH RECEIVING WATERS) MUST BE TAKEN IMMEDIATELY UPSTREAM OF THE CONFLUENCE OF THE FIRST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST UPSTREAM AT THE SITE) BUT DOWNSTREAM OF ANY OTHER STORM WATER DISCHARGE(S) ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL UPSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE UPSTREAM TURBIDITY VALUE.
- (B) THE DOWNSTREAM SAMPLE FOR EACH RECEIVING WATERS) MUST BE TAKEN DOWNSTREAM OF THE CONFLUENCE OF THE LAST STORM WATER DISCHARGE FROM THE PERMITTED ACTIVITY (I.E., THE DISCHARGE FARTHEST DOWNSTREAM AT THE SITE) BUT UPSTREAM OF ANY OTHER STORM WATER DISCHARGE(S) ASSOCIATED WITH THE PERMITTED ACTIVITY. WHERE APPROPRIATE, SEVERAL DOWNSTREAM SAMPLES FROM ACROSS THE RECEIVING WATERS) MAY NEED TO BE TAKEN AND THE ARITHMETIC AVERAGE OF THE TURBIDITY OF THESE SAMPLES USED FOR THE

DOWNSTREAM TURBIDITY VALUE.

(C) IDEALLY THE SAMPLES SHOULD BE TAKEN FROM THE HORIZONTAL AND VERTICAL CENTER OF THE RECEIVING WATERS) OR THE STORM WATER OUTFALL CHANNEL(S).

(D) CARE SHOULD BE TAKEN TO AVOID STRIKING THE BOTTOM SEDIMENTS IN THE RECEIVING WATERS) OR IN THE OUTFALL STORM WATER CHANNEL.

(E) THE SAMPLING CONTAINER SHOULD BE HELD SO THAT THE OPENING FACES UPSTREAM.

(F) THE SAMPLES SHOULD BE KEPT FRESH FROM FLOATING DEBRIS.

(G) PERMITTEES DO NOT HAVE TO SAMPLE SHEETFLOW THAT FLOWS ONTO UNDISTURBED NATURAL AREAS OR AREAS STABILIZED BY THE PROJECT. FOR PURPOSES OF THIS SECTION, STABILIZED SHALL MEAN, FOR UNPAVED AREAS AND PROJECTS NOT COVERED BY PERMANENT STRUCTURES, 100% PERCENT OF THE SOIL SURFACE UNIFORMLY COVERED IN PERMANENT VEGETATION WITH A DENSITY OF 70% OR GREATER, OR LANDSCAPE ACCORDING TO THE PLAN (UNIFORMLY COVERED WITH LANDSCAPING MATERIALS IN PLANNED LANDSCAPED AREAS), OR EQUIVALENT PERMANENT STABILIZATION MEASURES AS DEFINED IN THE MANUAL. EXCEPT FOR A CROP OF ANNUAL VEGETATION AND A SEEDING OF TARGET CROP PERENNIALS APPROPRIATE FOR THE REGION, FOR INFRASTRUCTURE CONSTRUCTION PROJECTS ON LAND USED FOR AGRICULTURAL, OR SILVICULTURAL PURPOSES, FINAL STABILIZATION MAY BE ACCOMPLISHED BY STABILIZING THE DISTURBED LAND FOR ITS AGRICULTURAL OR SILVICULTURAL USE.

(H) ALL SAMPLING PURSUANT TO THIS PERMIT MUST BE DONE IN SUCH A WAY (INCLUDING GENERALLY ACCEPTED SAMPLING METHODS, LOCATIONS, TIMING, AND FREQUENCY) AS TO ACCURATELY REFLECT WHETHER STORM WATER RUNOFF FROM THE CONSTRUCTION SITE IS IN COMPLIANCE WITH THE STANDARD SET FORTH IN PARTS III.D.3. OR III.D.4., WHICHEVER IS APPLICABLE.

(I) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, THE PERMITTEE IS NOT REQUIRED TO SAMPLE A PERENNIAL OR INTERMITTENT STREAM OR OTHER WATER BODIES (OR THE ASSOCIATED OUTFALL, IF APPLICABLE) IF THE DESIGN PROFESSIONAL, PREPARING THE PLAN CERTIFIES THAT AN INCREASE IN THE AREA IDENTIFIED RECEIVING WATER TO BE SAMPLED WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UNSAMPLED RECEIVING WATER. A WRITTEN JUSTIFICATION AND DETAILED ANALYSIS SHALL BE PREPARED BY THE DESIGN PROFESSIONAL JUSTIFYING SUCH PROPOSED SAMPLING. A SUMMARY CHART OF THE JUSTIFICATION AN ANALYSIS FOR THE REPRESENTATIVE SAMPLING MUST BE INCLUDED ON THE PLAN. THE JUSTIFICATION AND ANALYSIS SHALL INCLUDE THE LOCATION AND DESCRIPTION OF THE SPECIFIED AND UNSAMPLED RECEIVING WATER AND SHALL CONTAIN A DETAILED COMPARISON AND DISCUSSION OF EACH SUCH RECEIVING WATER IN THE FOLLOWING AREAS:

- (A) SITE LAND DISTURBANCES AND CHARACTERISTICS;
- (B) RECEIVING WATER WATERSHED SIZES AND CHARACTERISTICS; AND
- (C) SITE AND WATERSHED RUNOFF CHARACTERISTICS UTILIZING THE METHODS IN APPENDIX A-1 (UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICES' TRRS, URBAN HYDROLOGY FOR SMALL WATERSHEDS) OF THE MOST RECENT VERSION OF THE MANUAL FOR EROSION AND SEDIMENTATION CONTROL, IN GEORGIA' FOR THE VARIOUS PRECIPITATION EVENTS AND ANY OTHER SUCH CONSIDERATIONS NECESSARY TO SHOW THAT THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UNSAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASES IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UNSAMPLED RECEIVING WATERS.

3) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, WHEN THE PERMITTEE DETERMINES THAT SOME RECEIVING WATERS) WILL NOT BE SAMPLED DUE TO REPRESENTATIVE SAMPLING, THE DESIGN PROFESSIONAL, MAKING THIS DETERMINATION AND PREPARING THE PLAN MUST INCLUDE AND SIGN THE FOLLOWING CERTIFICATION IN THE PLAN:

"I CERTIFY THAT THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN PROVIDES FOR THE MONITORING OF: (A) ALL PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES SHOWN ON THE USGS TOPOGRAPHIC MAP AND ALL OTHER FIELD VERIFIED PERENNIAL AND INTERMITTENT STREAMS AND OTHER WATER BODIES, OR (B) WHERE ANY SUCH SPECIFIC IDENTIFIED PERENNIAL, OR INTERMITTENT STREAM OR OTHER WATER BODY IS NOT TO BE SAMPLED, I HAVE DETERMINED IN MY PROFESSIONAL JUDGMENT, UTILIZING THE FACTORS REQUIRED IN THE GENERAL NPDES PERMIT NO. GAR 10002, THAT THE INCREASE IN THE TURBIDITY OF EACH SPECIFIC IDENTIFIED UNSAMPLED RECEIVING WATER WILL BE REPRESENTATIVE OF THE INCREASE IN THE TURBIDITY OF A SPECIFIC IDENTIFIED UNSAMPLED RECEIVING WATER."

(4) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A SELECTED RECEIVING WATER NO LONGER REPRESENTS ANOTHER RECEIVING WATER, THEN THE PERMITTEE SHALL SAMPLE THE LATTER RECEIVING WATER UNTIL SELECTION OF AN ALTERNATIVE REPRESENTATIVE RECEIVING WATER.

(5) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, IF AT ANY TIME DURING THE LIFE OF THE PROJECT A RECEIVING WATER IS DETERMINED NOT TO BE REPRESENTED AS CERTIFIED IN THE PLAN, THE PERMITTEE SHALL SAMPLE THAT RECEIVING WATER UNTIL A NOTICE OF TERMINATION IS SUBMITTED OR UNTIL THE APPLICABLE PHASE IS STABILIZED IN ACCORDANCE WITH THIS PERMIT.

(6) FOR INFRASTRUCTURE CONSTRUCTION PROJECTS, MONITORING OBLIGATIONS SHALL CEASE FOR ANY PHASE OF THE PROJECT THAT HAS BEEN STABILIZED IN ACCORDANCE WITH PART IV.D.6.C.(1),(6).

D. SAMPLING FREQUENCY.

(1) THE PRIMARY PERMITTEE MUST SAMPLE IN ACCORDANCE WITH THE PLAN AT LEAST ONCE FOR EACH RAINFALL EVENT DESCRIBED BELOW. FOR A QUALIFYING EVENT, THE PERMITTEE SHALL SAMPLE AT THE BEGINNING OF ANY STORM WATER DISCHARGE TO A MONITORED RECEIVING WATER AND/OR FROM A MONITORED OUTFALL LOCATION WITHIN FORTY-FIVE (45) MINUTES OR AS SOON AS POSSIBLE.

(2) HOWEVER, WHERE MANUAL AND AUTOMATIC SAMPLING ARE IMPOSSIBLE (AS DEFINED IN THIS PERMIT), OR ARE BEYOND THE PERMITTEE'S CONTROL, THE PERMITTEE SHALL TAKE SAMPLES AS SOON AS POSSIBLE, BUT IN NO CASE MORE THAN TWELVE (12) HOURS AFTER THE BEGINNING OF THE STORM WATER DISCHARGE.

(3) SAMPLING BY THE PERMITTEE SHALL OCCUR FOR THE FOLLOWING QUALIFYING EVENTS:

- (A) FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, UNTIL THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED IN THIS PERMIT AFTER ALL CLEARING AND GRUBBING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO COMPLETION OF MASS GRADING OPERATIONS, IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION;
- (B) IN ADDITION TO (A) ABOVE, FOR EACH AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL, THE FIRST RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH WITH A STORM WATER DISCHARGE THAT OCCURS DURING NORMAL BUSINESS HOURS AS DEFINED BY THIS PERMIT EITHER 90 DAYS AFTER THE FIRST SAMPLING OR AFTER, ALL MASS GRADING OPERATIONS HAVE BEEN COMPLETED, BUT PRIOR TO SUBMITTAL OF A NOT IN THE DRAINAGE AREA OF THE LOCATION SELECTED AS THE SAMPLING LOCATION, WHICHEVER COMES FIRST;
- (C) AT THE TIME OF SAMPLING PERFORMED PURSUANT TO (A) AND (B) ABOVE, IF BMPS IN ANY AREA OF THE SITE THAT DISCHARGES TO A RECEIVING WATER OR FROM AN OUTFALL ARE NOT PROPERLY DESIGNED, INSTALLED AND MAINTAINED AND CORRECTIVE ACTION IS REQUIRED AND IMPLEMENTED WITHIN TWO (2) BUSINESS DAYS, AND TURBIDITY SAMPLES SHALL BE TAKEN FROM DISCHARGES FROM THAT AREA OF THE SITE FOR EACH SUBSEQUENT RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH DURING NORMAL BUSINESS HOURS, UNTIL THE SELECTED TURBIDITY STANDARD IS ATTAINED, OR UNTIL POST-STORM EVENT INSPECTIONS DETERMINE THAT BMPS ARE PROPERLY DESIGNED, INSTALLED AND MAINTAINED;
- (D) WHERE SAMPLING PURSUANT TO (A), (B) OR (C) ABOVE IS REQUIRED BUT NOT POSSIBLE (OR NOT REQUIRED BECAUSE THERE WAS NO DISCHARGE), THE PERMITTEE, IN ACCORDANCE WITH PART IV.D.6.A.(B), MUST INCLUDE A WRITTEN JUSTIFICATION IN THE INSPECTION REPORT OF WHY SAMPLING WAS NOT PERFORMED. PROVIDING THIS JUSTIFICATION DOES NOT RELIEVE THE PERMITTEE OF ANY SUBSEQUENT SAMPLING OBLIGATIONS UNDER (A), (B) OR (C) ABOVE; AND
- (E) EXISTING CONSTRUCTION ACTIVITIES, I.E., THOSE THAT ARE OCCURRING ON OR BEFORE THE EFFECTIVE DATE OF THIS PERMIT, THAT HAVE MET THE SAMPLING REQUIRED BY (A) ABOVE SHALL SAMPLE IN ACCORDANCE WITH (B). THOSE EXISTING CONSTRUCTION ACTIVITIES THAT HAVE MET THE SAMPLING REQUIRED BY (B) ABOVE SHALL NOT BE REQUIRED TO CONDUCT ADDITIONAL SAMPLING OTHER THAN AS REQUIRED BY (C) ABOVE.

*NOTE THAT THE PERMITTEE MAY CHOOSE TO MEET THE REQUIREMENTS OF (A) AND (B) ABOVE BY COLLECTING TURBIDITY SAMPLES FROM ANY RAIN EVENT THAT REACHES OR EXCEEDS 0.5 INCH AND ALLOWS FOR SAMPLING AT ANY TIME OF THE DAY OR WEEK.

7. NON-STORM WATER DISCHARGES. EXCEPT FOR FLOWS FROM FIRE FIGHTING ACTIVITIES, SOURCES OF NON-STORM WATER LISTED IN PART III.A.2, OF THIS PERMIT THAT ARE COMBINED WITH STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY MUST BE IDENTIFIED IN THE PLAN. THE PLAN SHALL IDENTIFY AND ENSURE THE IMPLEMENTATION OF APPROPRIATE POLLUTION PREVENTION MEASURES FOR THE NON-STORM WATER COMPONENT(S) OF THE DISCHARGE.

E. REPORTING.

- 1. THE APPLICABLE PERMITTEES ARE REQUIRED TO SUBMIT THE SAMPLING RESULTS TO THE EPD AT THE ADDRESS SHOWN IN PART II.C. BY THE FIFTEENTH DAY OF THE MONTH FOLLOWING THE REPORTING PERIOD. REPORTING PERIODS ARE MONTHS DURING WHICH SAMPLES ARE TAKEN IN ACCORDANCE WITH THIS PERMIT. SAMPLING RESULTS SHALL BE IN A CLEARLY LEGIBLE FORMAT. UPON WRITTEN NOTIFICATION, EPD MAY REQUIRE THE APPLICABLE PERMITTEE TO SUBMIT THE SAMPLING RESULTS ON A MORE FREQUENT BASIS. SAMPLING AND ANALYSIS OF STORM WATER DISCHARGES(S) OR THE RECEIVING WATERS) BEYOND THE MINIMUM FREQUENCY STATED IN THIS PERMIT MUST BE REPORTED IN A SIMILAR MANNER TO THE EPD. THE SAMPLING REPORTS MUST BE SIGNED IN ACCORDANCE WITH PART V.G.2. SAMPLING REPORTS MUST BE SUBMITTED TO EPD USING THE ELECTRONIC SUBMITTAL SERVICE PROVIDED BY EPD. SAMPLING REPORTS MUST BE SUBMITTED TO EPD UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI.
- 2. ALL SAMPLING REPORTS SHALL INCLUDE THE FOLLOWING INFORMATION:
 - a. THE RAINFALL AMOUNT, DATE, EXACT PLACE AND TIME OF SAMPLING OR MEASUREMENTS;
 - b. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE SAMPLING AND MEASUREMENTS;
 - c. THE DATE(S) ANALYSES WERE PERFORMED;
 - d. THE TIME(S) ANALYSES WERE INITIATED;
 - e. THE NAME(S) OF THE CERTIFIED PERSONNEL WHO PERFORMED THE ANALYSES;
 - f. REFERENCES AND WRITTEN PROCEDURES, WHEN AVAILABLE, FOR THE ANALYTICAL TECHNIQUES OR METHODS USED;

g. THE RESULTS OF SUCH ANALYSES, INCLUDING THE BENCH SHEETS, INSTRUMENT READOUTS, COMPUTER DISKS OR TAPES, ETC. USED TO DETERMINE THESE RESULTS;

h. RESULTS WHICH EXCEED 1000 NTU SHALL BE REPORTED AS "EXCEEDS 1000 NTU"; AND

i. CERTIFICATION STATEMENT THAT SAMPLING WAS CONDUCTED AS PER THE PLAN.

3. ALL WRITTEN CORRESPONDENCE REQUIRED BY THIS PERMIT SHALL BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL (OR SIMILAR SERVICE) TO THE APPROPRIATE DISTRICT OFFICE OF THE EPD ACCORDING TO THE SCHEDULE IN APPENDIX A OF THIS PERMIT. THE PERMITTEE SHALL RETAIN A COPY OF THE PROOF OF SUBMITTAL AT THE PROJECT SITE UNTIL THE PERMIT IS FULLY COMPLETED. THE PERMITTEE SHALL MAINTAIN THE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. IF ANY ELECTRONIC SUBMITTAL IS PROVIDED BY EPD THEN THE WRITTEN CORRESPONDENCE MAY BE SUBMITTED ELECTRONICALLY; IF REQUIRED, A PAPER COPY MUST ALSO BE SUBMITTED BY RETURN RECEIPT CERTIFIED MAIL OR SIMILAR SERVICE.

F. RETENTION OF RECORDS.

- 1. THE PRIMARY PERMITTEE SHALL RETAIN THE FOLLOWING RECORDS AT THE CONSTRUCTION SITE OR THE RECORDS SHALL BE READILY AVAILABLE AT A DESIGNATED ALTERNATE LOCATION FROM COMMENCEMENT OF CONSTRUCTION UNTIL SUCH TIME AS A NOT IS SUBMITTED IN ACCORDANCE WITH PART VI:
 - a. A COPY OF ALL NOTICES OF INTENT SUBMITTED TO EPD;
 - b. A COPY OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN REQUIRED BY THIS PERMIT;
 - c. THE DESIGN PROFESSIONAL'S REPORT OF THE RESULTS OF THE INSPECTION CONDUCTED IN ACCORDANCE WITH PART IV.A.5. OF THIS PERMIT;
 - d. A COPY OF ALL SAMPLING INFORMATION, RESULTS, AND REPORTS REQUIRED BY THIS PERMIT;
 - e. A COPY OF ALL INSPECTION REPORTS GENERATED IN ACCORDANCE WITH PART IV.D.4.A. OF THIS PERMIT;
 - f. A COPY OF ALL VIOLATION SUMMARIES AND VIOLATION SUMMARY REPORTS GENERATED IN ACCORDANCE WITH PART III.D.2. OF THIS PERMIT;
 - g. DAILY RAINFALL INFORMATION COLLECTED IN ACCORDANCE WITH PART IV.D.4.A.(2), OF THIS PERMIT;
 - 2. COPIES OF ALL NOTICES OF INTENT, NOTICES OF TERMINATION, INSPECTION REPORTS, SAMPLING REPORTS (INCLUDING ALL CALIBRATION AND MAINTENANCE RECORDS AND ALL ORIGINAL STRIP CHART RECORDINGS FOR CONTINUOUS MONITORING INSTRUMENTATION) OR OTHER REPORTS REQUESTED BY THE EPD, EROSION, SEDIMENTATION AND POLLUTION CONTROL PLANS, RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT AND ALL OTHER RECORDS REQUIRED BY THIS PERMIT SHALL BE RETAINED BY THE PERMITTEE UNTIL THE PRODUCT OR USED IT FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE THAT THE NOT IS SUBMITTED IN ACCORDANCE WITH PART VI. OF THIS PERMIT. THESE RECORDS MUST BE MAINTAINED AT THE PERMITTEE'S PRIMARY PLACE OF BUSINESS OR AT A DESIGNATED ALTERNATIVE LOCATION ONCE THE CONSTRUCTION ACTIVITY HAS CEASED AT THE PERMITTED SITE. THIS PERIOD MAY BE EXTENDED BY REQUEST OF THE EPD AT ANY TIME UPON WRITTEN NOTIFICATION TO THE PERMITTEE.

PART V. STANDARD PERMIT CONDITIONS

A. DUTY TO COMPLY.

1. EACH PERMITTEE MUST COMPLY WITH ALL APPLICABLE CONDITIONS OF THIS PERMIT. ANY PERMIT NONCOMPLIANCE CONSTITUTES A VIOLATION OF THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-2-20, ET SEQ.) AND IS GROUNDS FOR ENFORCEMENT ACTION FOR PERMIT TERMINATION; OR FOR DENIAL OF A PERMIT RENEWAL, APPLICATION FOR A PRIMARY PERMITTEE TO COMPLY WITH ANY APPLICABLE TERM OR CONDITION OF THIS PERMIT SHALL NOT RELIEVE ANY OTHER PRIMARY PERMITTEE FORM COMPLIANCE WITH THEIR APPLICABLE TERMS AND CONDITIONS OF THIS PERMIT.

2. EACH PERMITTEE MUST DOCUMENT IN THEIR RECORDS ANY AND ALL KNOWN VIOLATIONS OF THIS PERMIT AT HIS/HER SITE WITHIN SEVEN (7) DAYS OF HIS/HER KNOWLEDGE OF THE VIOLATION. A SUMMARY OF THESE VIOLATIONS MUST BE SUBMITTED TO EPD BY THE PERMITTEE AT THE ADDRESS SHOWN IN PART II.C. WITHIN FOURTEEN (14) DAYS OF HIS/HER DISCOVERY OF THE VIOLATION.

3. PENALTIES FOR VIOLATIONS OF PERMIT CONDITIONS. THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT (O.C.G.A. §§12-2-20, ET SEQ.) PROVIDE THAT ANY PERSON WHO FALSIFIES, TAMPER WITH, OR KNOWINGLY RENDERS INACCURATE ANY MONITORING DEVICE OR METHOD REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, MAKES ANY FALSE STATEMENT, REPRESENTATION, OR CERTIFICATION IN ANY RECORD OR OTHER DOCUMENT SUBMITTED OR REQUIRED TO BE MAINTAINED UNDER THIS PERMIT, INCLUDING MONITORING REPORTS OR REPORTS OF COMPLIANCE OR NONCOMPLIANCE SHALL, UPON CONVICTION, BE PUNISHED BY A FINE OR BY IMPRISONMENT, OR BY BOTH, THE FEDERAL CLEAN WATER ACT AND THE GEORGIA WATER QUALITY CONTROL ACT ALSO PROVIDE PROCEDURES FOR IMPOSING CIVIL PENALTIES WHICH MAY BE LEVIED FOR VIOLATIONS OF THE ACTS, ANY PERMIT CONDITION OR LIMITATION ESTABLISHED PURSUANT TO THE ACTS, OR NEGLIGENTLY OR INTENTIONALLY FAILING OR REFUSING TO COMPLY WITH ANY FINAL OR EMERGENCY ORDER OF THE DIRECTOR.

B. CONTINUATION OF THE EXPIRED GENERAL PERMIT. THIS PERMIT EXPIRES ON THE DATE SHOWN ON THE COVER PAGE OF THIS PERMIT. HOWEVER, AN EXPRESSED GENERAL PERMIT CONTINUES IN FORCE AND EFFECT UNTIL A NEW GENERAL PERMIT IS ISSUED, FINALLY EFFECTIVE.

C. NEED TO HALT OR REDUCE ACTIVITY NOT A DEFENSE. IT SHALL NOT BE A DEFENSE FOR THE PERMITTEE IN AN ENFORCEMENT ACTION THAT IT WOULD HAVE BEEN NECESSARY TO HALT OR REDUCE THE PERMITTED ACTIVITY IN ORDER TO MAINTAIN COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT.

D. DUTY TO MITIGATE. THE PERMITTEE SHALL TAKE ALL REASONABLE STEPS TO MINIMIZE OR PREVENT ANY DISCHARGE IN VIOLATION OF THIS PERMIT WHICH HAS A REASONABLE LIKELIHOOD OF ADVERSELY AFFECTING HUMAN HEALTH OR THE ENVIRONMENT.

E. LOCAL TO PROVIDE INFORMATION. THE PERMITTEE SHALL FURNISH TO THE DIRECTOR, A STATE OR LOCAL AGENCY APPROVING SOIL EROSION AND SEDIMENTATION CONTROL PLANS, GRADING PLANS, OR STORM WATER MANAGEMENT PLANS; OR IN THE CASE OF A STORM WATER DISCHARGE ASSOCIATED WITH CONSTRUCTION ACTIVITY WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, TO THE LOCAL GOVERNMENT OPERATING THE MUNICIPAL SEPARATE STORM SEWER SYSTEM, ANY INFORMATION WHICH IS NECESSARY TO DETERMINE COMPLIANCE WITH THIS PERMIT. IN THE CASE OF INFORMATION SUBMITTED TO THE EPD SUCH INFORMATION SHALL BE CONSIDERED PUBLIC INFORMATION AND AVAILABLE UNDER THE GEORGIA OPEN RECORDS ACT.

F. OTHER MANAGEMENT INFORMATION. WHEN THE PERMITTEE BECOMES AWARE THAT HE FAILED TO SUBMIT ANY RELEVANT FACTS OR SUBMITTED INCORRECT INFORMATION IN THE NOTICE OF INTENT OR IN ANY OTHER REPORT REQUIRED TO BE SUBMITTED TO THE EPD, THE PERMITTEE SHALL PROMPTLY SUBMIT SUCH FACTS OR INFORMATION.

G. SIGNATORY REQUIREMENTS. ALL NOTICES OF INTENT, NOTICE OF TERMINATIONS, INSPECTION REPORTS, SAMPLING REPORTS OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED AS FOLLOWS:

- 1. ALL NOTICES OF INTENT AND NOTICES OF TERMINATION SHALL BE SIGNED AS FOLLOWS:
 - a. FOR A CORPORATION: BY A RESPONSIBLE CORPORATE OFFICER. FOR THE PURPOSE OF THIS PERMIT, A RESPONSIBLE CORPORATE OFFICER MEANS: (1) A PRESIDENT, SECRETARY, TREASURER, OR VICE-PRESIDENT OF THE CORPORATION IN CHARGE OF A PRINCIPAL BUSINESS FUNCTION; OR ANY OTHER PERSON WHO PERFORMS SIMILAR POLICY, OR DECISION-MAKING FUNCTIONS FOR THE CORPORATION; OR (2) THE MANAGER OF ONE OR MORE MANUFACTURING, PRODUCTION OR OPERATING FACILITIES PROVIDED THE MANAGER IS AUTHORIZED TO MAKE MANAGEMENT DECISIONS WHICH GOVERN THE OPERATION OF THE REGULATED FACILITY INCLUDING WHETHER THE EMPLOYER IMPLICIT DUTY OF MAKING MAJOR CAPITAL INVESTMENTS, AND MAINTAINING AND OPERATING OTHER COMPREHENSIVE MEASURES TO ASSURE LONG TERM ENVIRONMENTAL COMPLIANCE WITH ENVIRONMENTAL LAWS AND REGULATIONS; THE MANAGER CAN ENSURE THE NECESSARY SYSTEMS ARE ESTABLISHED OR ACTIONS TAKEN TO GATHER COMPLETE AND ACCURATE INFORMATION FOR PERMIT APPLICATION REQUIREMENTS; AND WHERE AUTHORITY TO SIGN DOCUMENTS HAS BEEN ASSIGNED OR DELEGATED TO THE MANAGER IN ACCORDANCE WITH CORPORATE PROCEDURES;
 - b. FOR A PARTNERSHIP OR SOLE PROPRIETORSHIP: BY A GENERAL PARTNER OR THE PROPRIETOR, RESPECTIVELY; OR
 - c. FOR A MUNICIPALITY, STATE, FEDERAL, OR OTHER PUBLIC FACILITY: BY EITHER A PRINCIPAL EXECUTIVE OFFICER OR RANKING ELECTED OFFICIAL; AND
- 2. CHANGES TO AUTHORIZATION. IF AN AUTHORIZATION UNDER PART III.B. IS NO LONGER ACCURATE, A CHANGE OF INFORMATION NOT SATISFYING THE REQUIREMENTS OF PART III.B. MUST BE SUBMITTED TO THE EPD TOPO TO TOGETHER WITH ANY INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD TO BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON.

3. ALL INSPECTION REPORTS, SAMPLING REPORTS, OR OTHER REPORTS REQUESTED BY THE EPD SHALL BE SIGNED BY A PERSON DESCRIBED ABOVE OR BY A DULY AUTHORIZED REPRESENTATIVE OF THAT PERSON. A PERSON'S DULY AUTHORIZED REPRESENTATIVE IS ONLY:

- a. THE AUTHORIZATION IS MADE IN WRITING (BY A PERSONS) DESCRIBED ABOVE AND SUBMITTED TO THE EPD;
- b. THE AUTHORIZATION SPECIFIES EITHER AN INDIVIDUAL OR A POSITION HAVING RESPONSIBILITY FOR SPECIFIED OPERATION(S) OF THE REGULATED FACILITY OR ACTIVITY, SUCH AS THE POSITION OF MANAGER, OPERATOR, SUPERINTENDENT, OR POSITION OF EQUIVALENT RESPONSIBILITY OR AN INDIVIDUAL OR POSITION HAVING OVERALL RESPONSIBILITY FOR ENVIRONMENTAL MATTERS FOR THE COMPANY. (A DULY AUTHORIZED REPRESENTATIVE MAY BE EITHER A NAMED INDIVIDUAL, OR ANY INDIVIDUAL OCCUPYING A NAMED POSITION); AND
- c. CERTIFICATION. REPORTS DELINEATED IN PART V.G.2. SHALL BE SIGNED BY THE PERMITTEE OR DULY AUTHORIZED REPRESENTATIVE AND MUST INCLUDE THE FOLLOWING CERTIFICATION:

"I CERTIFY UNDER PENALTY OF LAW THAT THIS REPORT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT CERTIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED, BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS."

H. OIL AND HAZARDOUS SUBSTANCE LIABILITY. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER THE GEORGIA HAZARDOUS WASTE MANAGEMENT ACT, O.C.G.A. § 128-60, ET SEQ. OR UNDER CHAPTER 14 OF TITLE 12 OF THE OFFICIAL CODE OF GEORGIA. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING ANY RESPONSIBILITIES, LIABILITIES OR PENALTIES TO WHICH THE PERMITTEE IS OR MAY BE SUBJECT UNDER SECTION 13 OF THE CLEAN WATER ACT OR SECTION 106 OF COMPREHENSIVE ENVIRONMENTAL RESPONSE COMPENSATION AND LIABILITY ACT.

I. PROPERTY RIGHTS. THE ISSUANCE OF THIS PERMIT DOES NOT CONVEY ANY PROPERTY RIGHTS OF ANY SORT, NOR ANY EXCLUSIVE PRIVILEGES, NOR DOES IT AUTHORIZE ANY INJURY TO PRIVATE PROPERTY NOR ANY INVAISION OF PERSONAL RIGHTS, NOR ANY INFRINGEMENT OF FEDERAL, STATE OR LOCAL LAWS OR REGULATIONS.

J. SEVERABILITY. THE PROVISIONS OF THIS PERMIT ARE SEVERABLE, AND IF ANY PROVISION OF THIS PERMIT, OR THE APPLICATION OF ANY PROVISION OF THIS PERMIT TO ANY CIRCUMSTANCE, IS

HELD INVALID, THE APPLICATION OF SUCH PROVISION TO OTHER CIRCUMSTANCES, AND THE REMAINDER OF THIS PERMIT SHALL NOT BE AFFECTED THEREBY.

K. OTHER APPLICABLE ENVIRONMENTAL REGULATIONS AND LAWS. NOTHING IN THIS PERMIT SHALL BE CONSTRUED TO PRECLUDE THE INSTITUTION OF ANY LEGAL ACTION OR RELIEVE THE PERMITTEE FROM ANY RESPONSIBILITIES, LIABILITIES, OR PENALTIES ESTABLISHED PURSUANT TO ANY APPLICABLE STATE LAW OR REGULATION UNDER AUTHORITY PRESERVED BY SECTION 510 OF THE CLEAN WATER ACT, NOTHING IN THIS PERMIT, UNLESS EXPLICITLY STATED, EXEMPTS THE PERMITTEE FROM COMPLIANCE WITH OTHER APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS, RULES, REGULATIONS, AND LAWS. FURTHERMORE, IT IS NOT A DEFENSE TO COMPLIANCE WITH THIS PERMIT THAT A LOCAL GOVERNMENT AUTHORITY HAS APPROVED THE PERMITTEE'S EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN OR FAILED TO TAKE ENFORCEMENT ACTION AGAINST THE PERMITTEE FOR VIOLATIONS OF THE EROSION, SEDIMENTATION AND POLLUTION CONTROL PLAN, OR OTHER PROVISIONS OF THIS PERMIT.

NO CONDITION OF THIS PERMIT SHALL RELEASE THE PERMITTEE FROM ANY RESPONSIBILITY OR REQUIREMENTS UNDER OTHER ENVIRONMENTAL STATUTES OR REGULATIONS.

L. PROPER OPERATION AND MAINTENANCE. THE PERMITTEE SHALL AT ALL TIMES PROPERLY OPERATE AND MAINTAIN ALL FACILITIES AND SYSTEMS OF TREATMENT AND CONTROL (AND RELATED APPURTENANCES) WHICH ARE INSTALLED OR USED BY THE PERMITTEE TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THIS PERMIT AND WITH THE REQUIRED PLANS. PROPER OPERATION AND MAINTENANCE ALSO INCLUDES ADEQUATE LABORATORY CONTROLS AND APPROPRIATE QUALITY ASSURANCE PROCEDURES. PROPER OPERATION AND MAINTENANCE REQUIRES THE OPERATION OF BACKUP OR AUXILIARY FACILITIES OR SIMILAR SYSTEMS, INSTALLED BY THE PERMITTEE ONLY WHEN NECESSARY TO ACHIEVE COMPLIANCE WITH THE CONDITIONS OF THE PERMIT.

M. INSPECTION AND ENTRY. THE PERMITTEE SHALL ALLOW THE DIRECTOR OR AN AUTHORIZED REPRESENTATIVE OF THE EPD TO ENTER AT ANY TIME THE CONSTRUCTION SITE WHICH DISCHARGES THROUGH A MUNICIPAL SEPARATE STORM SEWER SYSTEM WITH AN NPDES PERMIT, AN AUTHORIZED REPRESENTATIVE OF THE MUNICIPAL OPERATOR OF THE SEPARATE STORM SEWER SYSTEM RECEIVING THE DISCHARGE, UPON THE PRESENTATION OF CREDENTIALS AND OTHER DOCUMENTS AS MAY BE REQUIRED BY LAW, TO:

- 1. ENTER UPON THE PERMITTEE'S PREMISES WHERE A REGULATED FACILITY OR ACTIVITY IS LOCATED OR CONDUCTED OR WHERE RECORDS MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
- 2. HAVE ACCESS TO AND COPY AT REASONABLE TIMES, ANY RECORDS THAT MUST BE KEPT UNDER THE CONDITIONS OF THIS PERMIT; AND
- 3. INSPECT AT REASONABLE TIMES ANY FACILITIES OR EQUIPMENT (INCLUDING MONITORING AND CONTROL EQUIPMENT).

N. PERMIT ACTIONS. THIS PERMIT MAY BE REVOKED AND REISSUED, OR TERMINATED FOR CAUSE INCLUDING BUT NOT LIMITED TO CHANGES IN THE LAW OR REGULATIONS, THE FILING OF A REQUEST BY THE PERMITTEE FOR TERMINATION OF THE PERMIT, OR A NOTIFICATION OF PLANNED CHANGES OR ANTICIPATED NONCOMPLIANCE, DOES NOT STAY ANY PERMIT CONDITION.

PRODUCT SPECIFIC PRACTICES

PETROLEUM BASED PRODUCTS - CONTAINERS FOR PRODUCTS SUCH AS FUELS, LUBRICANTS AND TARS WILL BE INSPECTED daily FOR LEAKS AND SPILLS. THIS INCLUDES ON-SITE VEHICLE AND MACHINERY DAILY INSPECTIONS AND REGULAR PREVENTATIVE MAINTENANCE OF SUCH EQUIPMENT. EQUIPMENT MAINTENANCE AREAS WILL BE FENCED OFF FROM STATE AND FEDERAL HIGHWAYS AND OTHER TRAVEL ROUTES. IN ADDITION TO

GEORGIA UNIFORM CODING SYSTEM FOR SOIL EROSION AND SEDIMENT CONTROL PRACTICES

GEORGIA SOIL AND WATER CONSERVATION COMMISSION

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Cd	CHEQUEDAM			A small temporary barrier or dam constructed across a swale, drainage ditch or area of concentrated flow.
Ch	CHANNEL STABILIZATION			Improving, constructing or stabilizing an open channel, existing stream, or ditch.
Co	CONSTRUCTION EXIT			A crushed stone pad located at the construction site exit to provide a place for removing mud from tires thereby protecting public streets.
Cr	CONSTRUCTION ROAD STABILIZATION			A travelpad constructed as part of a construction plan including access roads, subdivision roads, parking areas and other on-site vehicle transportation routes.
Dc	STREAM DIVERSION CHANNEL			A temporary channel constructed to convey flow around a construction site while a permanent structure is being constructed.
Di	DIVERSION			An earth channel or dike located above, below or across a slope to divert runoff. This may be a temporary or permanent structure.
Dn1	TEMPORARY DOWNDRAN STRUCTURE			A flexible conduit of heavy-duty fabric or other material designed to safely conduct surface runoff down a slope. This is temporary and inexpensive.
Dn2	PERMANENT DOWNDRAN STRUCTURE			A paved chute, pipe, sectional conduit or similar material designed to safely conduct surface runoff down a slope.
Fr	FILTER RING			A temporary stone barrier constructed at storm drain inlets and pond outlets.
Ga	GABION			Rock filter baskets which are hand-placed into position forming soil stabilizing structures.
Gr	GRADE STABILIZATION STRUCTURE			Permanent structures installed to protect channels or waterways where otherwise the slope would be sufficient for the running water to form gullies.
Lv	LEVEL SPREADER			A structure to convert concentrated flow of water into less erosive sheet flow. This should be constructed only on undisturbed soils.
Rd	ROCK FILTER DAM			A permanent or temporary stone filter dam installed across small streams or drainageways.
Re	RETAINING WALL			A wall installed to stabilize out and fill slopes where maximum permissible slopes are not obtainable. Each situation will require special design.
Rt	RETRO FITTING			A device or structure placed in front of a permanent stormwater detention pond outlet structure to serve as a temporary sediment filter.
Sd1	SEDIMENT BARRIER			A barrier to prevent sediment from leaving the construction site. It may be sandbags, bales of straw or hay, brush logs and poles, gravel, or a silt fence.
Sd2	INLET SEDIMENT TRAP			An impounding area created by excavating around a storm drain drop inlet. The excavated area will be filled and stabilized on completion of construction activities.
Sd3	TEMPORARY SEDIMENT BASIN			A basin created by excavation or a dam across a waterway. The surface water runoff is temporarily stored allowing the bulk of the sediment to drop out.
Sd4	TEMPORARY SEDIMENT TRAP			A small temporary pond that drains a disturbed area so that sediment can settle out. The principle feature distinguishing a temporary sediment trap from a temporary sediment basin is the lack of a pipe or riser.
Sk	FLOATING SURFACE SOMMER			A buoyant device that releases/draws water from the surface of sediment ponds, traps, or basins at a controlled rate of flow.
Spb	SEEP BERM			Linear control device constructed as a diversion perpendicular to the direction of runoff to enhance dispersion and infiltration, while creating multiple sedimentation chambers with the help of intermediate dikes.

GoSWCC (Amended - 2013)

STRUCTURAL PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Sr	TEMPORARY STREAM CROSSING			A temporary bridge or culvert-type structure protecting a stream or watercourse from damage by crossing construction equipment.
St	STORMDRAN OUTLET PROTECTION			A paved or short section of riprap channel at the outlet of a storm drain system preventing erosion from the concentrated runoff.
Su	SURFACE ROUGHENING			A rough soil surface with horizontal depressions on a contour or slopes left in a roughened condition after grading.
Tc	TURBIDITY CURTAIN			A floating or staked barrier installed within the water (it may also be referred to as a floating boom, silt barrier, or silt curtain).
Tp	TOPSOLLING			The practice of stripping off the more fertile soil, storing it, then spreading it over the disturbed area after completion of construction activities.
Tr	TREE PROTECTION			To protect desirable trees from injury during construction activity.
Wl	VEGETATED WATERWAY OR STORMWATER CONVEYANCE CHANNEL			Paved or vegetative water outlets for diversions, terraces, berms, dikes or similar structures.

VEGETATIVE PRACTICES

CODE	PRACTICE	DETAIL	MAP SYMBOL	DESCRIPTION
Bf	BUFFER ZONE			Strip of undisturbed original vegetation, enhanced or restored existing vegetation or the reestablishment of vegetation surrounding an area of disturbance or bordering streams.
Cs	COASTAL DUNE STABILIZATION (WITH VEGETATION)			Planting vegetation on dunes that are denuded or artificially constructed, or re-nourished.
Ds1	DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)			Establishing temporary protection for disturbed areas where seedlings may not have a suitable growing season to produce an erosion retardant cover.
Ds2	DISTURBED AREA STABILIZATION (WITH TEMP SEEDING)			Establishing a temporary vegetative cover with fast growing seedlings on disturbed areas.
Ds3	DISTURBED AREA STABILIZATION (WITH PERM SEEDING)			Establishing a permanent vegetative cover such as trees, shrubs, vines, grasses, or legumes on disturbed areas.
Ds4	DISTURBED AREA STABILIZATION (SODDING)			A permanent vegetative cover using sods on highly erodible or critically eroded lands.
Du	DUST CONTROL ON DISTURBED AREAS			Controlling surface and air movement of dust on construction site, roadways and similar sites.
Fl-Cq	FLOCCULANTS AND COAGULANTS			Substance formulated to assist in the solids/liquid separation of suspended particles in solution.
Sb	STREAMBANK STABILIZATION (WITH PERM VEGETATION)			The use of readily available native plant materials to maintain and enhance streambanks or to prevent, restore and repair small streambank erosion problems.
Ss	SLOPE STABILIZATION			A protective covering used to prevent erosion and establish temporary or permanent vegetation on steep slopes, shore lines, or channels.
Tac	TACKERS AND BINDERS			Substance used to anchor straw or hay mulch by causing the organic material to bind together.

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Ds1 DISTURBED AREA STABILIZATION (W/MULCHING ONLY)

SPECIFICATIONS
A. For temporary protection of critical areas without seeding. This standard applies to grades or cleared areas which may be subjected to erosion for 6 months or less, where seeding may not have a suitable growing season to produce an erosion retardant cover, but which can be stabilized with a mulch cover.
1. Grade, as needed and feasible, to permit the use of equipment for applying and anchoring mulch.
2. Install needed erosion control measures as required such as dikes, diversions, berms, terraces and sediment barriers.
3. As needed and feasible, loosen compact soil to a minimum depth of 3 inches.

Mulching Materials
1. Dry straw or hay - spread at a rate of 2 1/2 tons per acre.
2. Wood waste: chips, sawdust or bark - spread 2 to 3 inches deep (about 6 to 9 tons per acre).
3. Erosion control matting or netting, such as excelsior, jute, textile and plastic matting and netting - applied in accordance with manufacturer's recommendations.
4. Curbcut asphalt: slow cure - applied at 1200 gallons per acre (or 1 1/4 gallon per sq. yd.)
5. Polyethylene film - secured over barks or stockpiled soil material for temporary protection.

Applying and Anchoring Mulch
1. Apply straw or hay mulch uniformly by hand or mechanically. Anchor as appropriate and feasible. It may be pressed into the soil with a disk harrow with the disk set straight or with a special "packer disk." The disk may be smooth or serrated and should be 20 inches or more in diameter and 8 to 12 inches apart. The edges of the disk should be dull enough not to cut the mulch but press it into the soil leaving much of it in an erect position.
2. Spread wood waste uniformly on slopes that are 3:1 and flatter. No anchoring is needed.
3. Commercial matting and netting. Follow manufacturer's specification included with the material.
4. Apply asphalt so area has uniform appearance. (Note: Use in areas of pedestrian traffic could cause problems or tracking in or damage to shoes, clothing, etc.)

Mulching Materials
Use one of the materials given below and apply at thickness indicated.
Material Depth
1. Grain straw or grass hay 6" to 10"
2. Pine needles 4" to 6"
3. Wood waste (sawdust, bark, chips) 4" to 6"
4. Shredded residues (crops, leaves, etc.) 4" to 6"
5. Completely cover area with black polyethylene film and hold in place by placing soil on the outer edge.
When using organic mulches, apply 20-30 pounds of nitrogen in addition to the normal amount needed for plant growth to offset the tie up of N by decomposition of mulch.

Du DUST CONTROL ON DISTURBED AREAS

PURPOSE
A. To prevent surface and air movement of dust from exposed surfaces.
B. To reduce the presence of airborne substances which may be harmful or injurious to human health, welfare, safety, or to animals or plants.
Temporary Methods
1. Irrigation. This is generally done as an emergency treatment. Site is sprinkled with water until the surface is wet.
2. Mulching - See Ds1 - Disturbed Area Stabilization (with Mulching only)
3. Vegetative Cover - See Ds2 - Disturbed Area Stabilization

Permanent Methods
1. Permanent Vegetation - See Ds3 - Disturbed Area Stabilization (with Permanent Vegetation)

Ds4 DISTURBED AREA STABILIZATION (W/SODDING)

SPECIFICATIONS
Establishing permanent vegetative using sods on highly erodible or critically eroded lands.

Site Preparation
1. Strip soil surface to final grade. Clear surface of trash, woody debris, stones and clods larger than 1". Apply soil to soil surfaces only and not frozen surfaces, or gravel type soils. Topsoil properly applied will help guarantee a stand. Do not use topsoil recently treated with herbicides or soil sterilants.
2. Mix fertilizer into surface. Fertilizer based on soil tests. Agriculture lime should be applied based on soil tests or at a rate of 1 to 2 tons per acre.
Soil Sods
1. Sod should be machine cut and contain 3/4" (+ or - 1/4") of soil, not including shoots or thatch.
2. Sod should be cut to the desired size within + or - 5%. Torn or uneven pads should be rejected.
3. Sod should be cut and installed within 36 hours of digging.
4. Avoid planting when subject to frost heave or hot weather if irrigation is not available.

SOD PLANTING REQUIREMENTS

GRASS	VARIETIES	RESOURCE AREA	GROWING SEASON	1. Apply in spring following seeding.	2. Apply in split applications when high rates are used.	3. Apply in 3 split applications.	4. Apply when plants are pruned.	5. Apply to grass species only.	6. Apply when plants grow to height of 2 to 4 inches.
1. BERMUDAGRASS	Common Tilway Tilgreen Tilgreen P.C. P.C.	M-L, P.C.	Warm Weather						
2. TALL FESCUE	Kentucky 31	M-L, P.	Cool Weather						

FERTILIZER REQUIREMENTS FOR SOD

TYPES OF SPECIES	PLANTING YEAR	FERTILIZER (N-P-K)	RATE (LBS/ACRE)	NITROGEN TOP DRESSING RATE (LBS/ACRE)
COOL SEASON GRASSES	FIRST	6-12-12	1500	50-1000
	SECOND	6-12-12	1000	---
	MAINTENANCE	10-10-10	400	30
WARM SEASON GRASSES	FIRST	6-12-12	1500	50-1000
	SECOND	6-12-12	800/400	50-100
	MAINTENANCE	10-10-10	400	30

FERTILIZER REQUIREMENTS

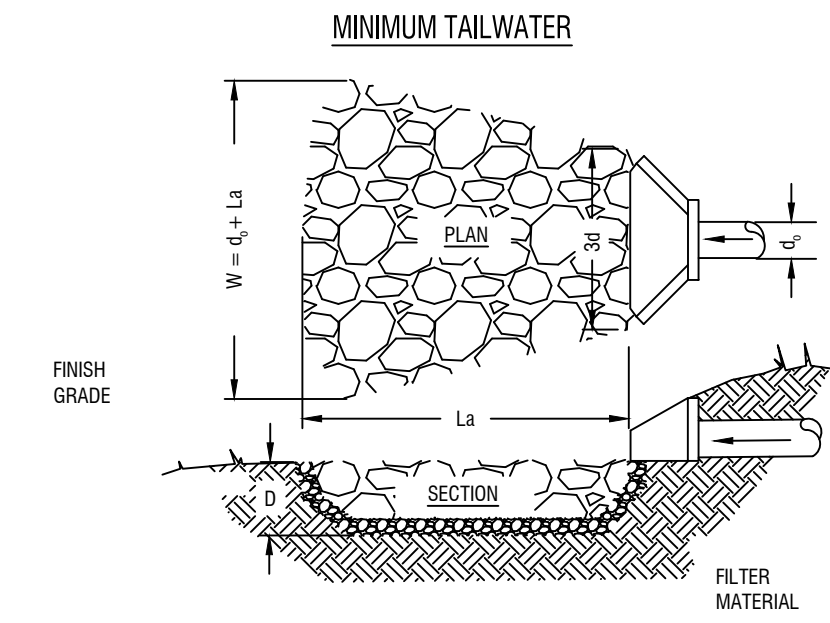
TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE	LIME APPLICATION
Cool Season Grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 1*2*	2000 lbs/ac
	Second	6-12-12	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Cool Season Grasses and Legumes	First	6-12-12	1500 lbs/ac	0-50 lbs/ac 1*	2000 lbs/ac
	Second	6-12-12	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Ground Covers	First	10-10-10	1500 lbs/ac	--	--
	Second	10-10-10	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Fine Seedlings	First	20-10-5	one 21-gallon pail per seeding placed in the closing hole	--	--
	Second	10-10-10	700 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Shrub Leavedezza	First	0-10-10	700 lbs/ac	--	--
	Second	0-10-10	700 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Temporary Cover Crops Seeded Clove	First	10-10-10	500 lbs/ac	30 lbs/ac 5*	--
	Second	10-10-10	500 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Warm Season Grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 2*6*	2000 lbs/ac
	Second	6-12-12	800 lbs/ac	50-100 lbs/ac 2*6*	30 lbs/ac
	Maintenance	10-10-10	400 lbs/ac	--	--
Warm Season Grasses and Legumes	First	6-12-12	1500 lbs/ac	50 lbs/ac 6*	2000 lbs/ac
	Second	6-12-12	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--

MULCHING RATES FOR PERMANENT COVER

TYPE OF MULCH	RATE PER ACRE	NOTES
Dry straw	2 Tons	Free of weed seeds
Dry hay	2.5 Tons	Free of weed seeds
Wood Cellulose	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Wood Pulp Fiber	500 lbs. 1000 lbs.	Slope less than 3/4:1 Slope greater than 3/4:1
Seneca Leavedezza Hay	3 Tons	Containing mature seeds
Pine Straw or Bark	3 inches thick	For bedding Not for seeding
Bituminous treated rowing	See DOT specs.	Use on slopes, in ditches, or dry waterways.

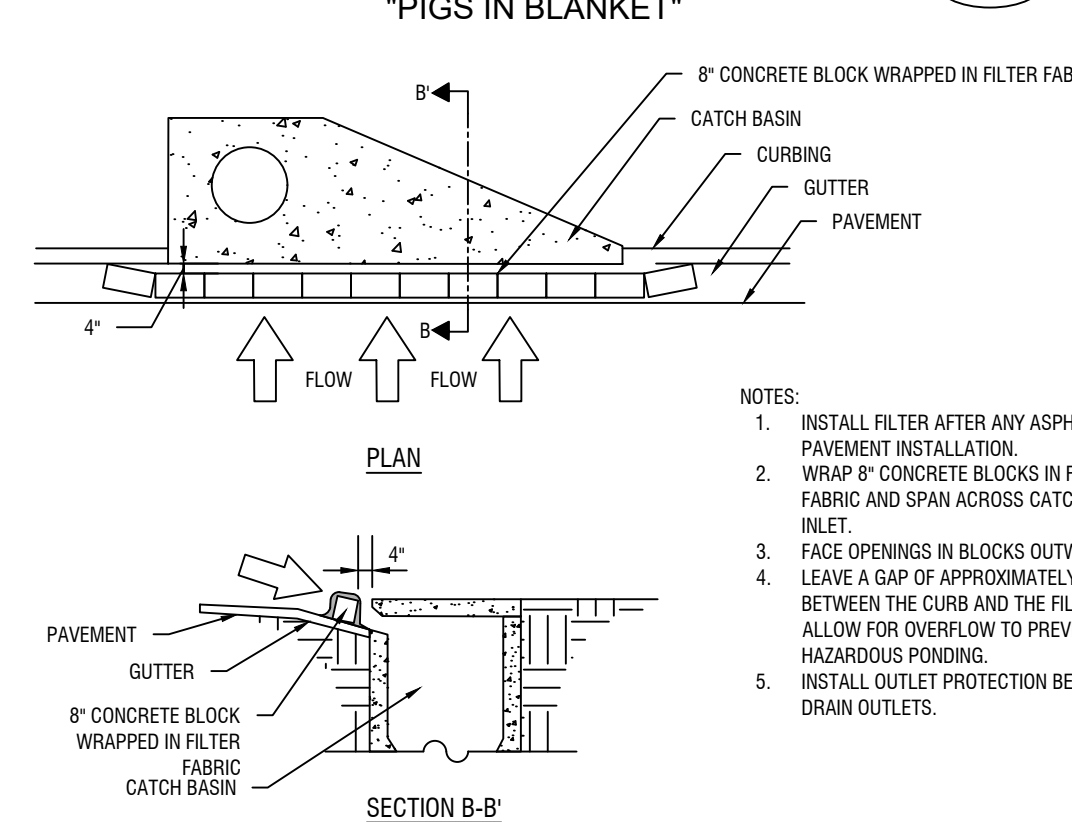
1. Mulching is not required for temporary grassing.
2. Mulch shall be applied to cover 75% of the soil surface.
3. Sod does not require mulch.

STORM DRAIN OUTLET PROTECTION



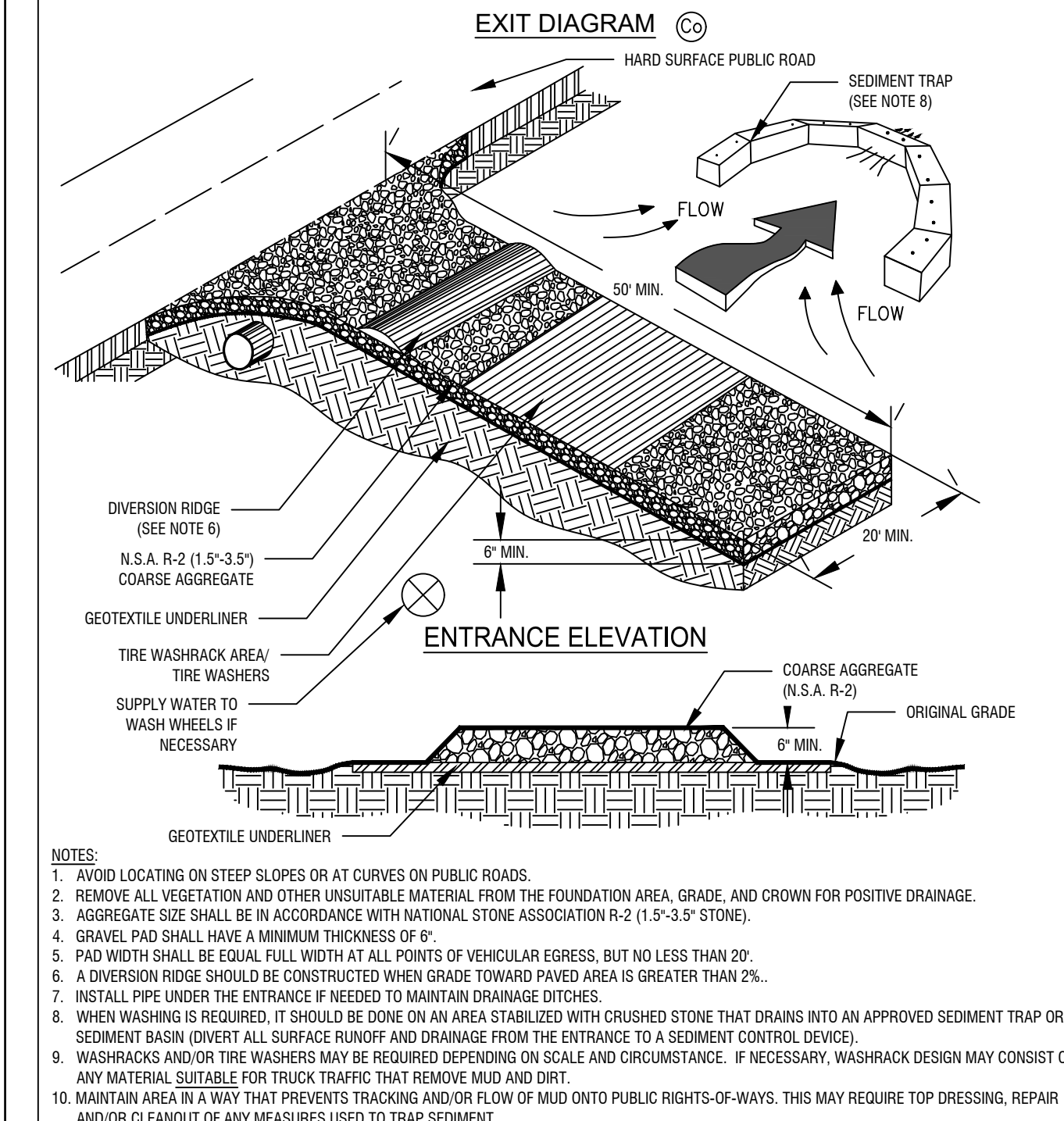
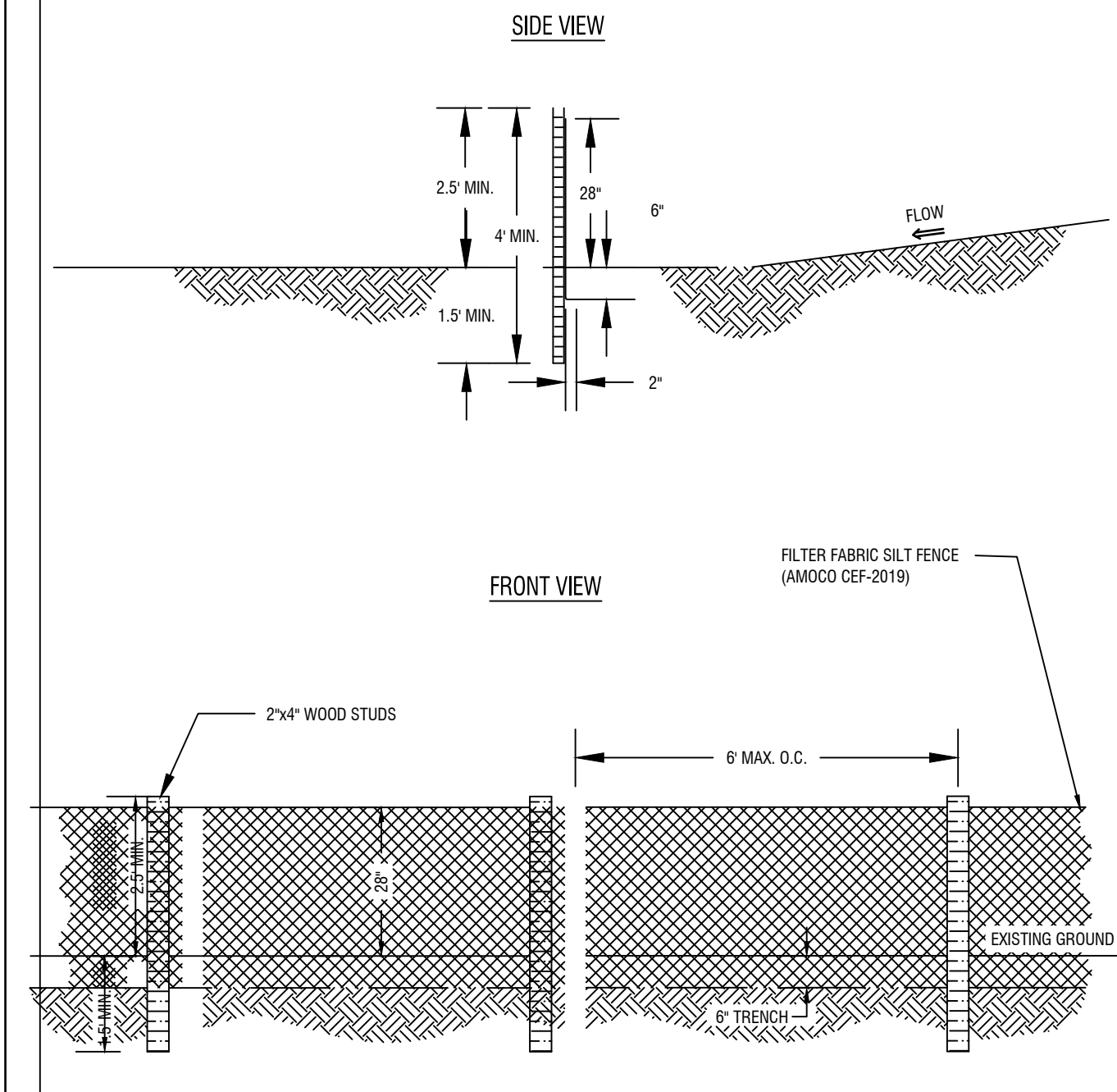
NOTES:
1. REFER TO STORM DRAIN OUTLET PROTECTION CHART FOR DIMENSIONING INFORMATION.
2. d_1 = DIAMETER OF OUTLET PIPE
3. d_2 = MIN. STONE DIAMETER
4. d_3 = MAX. STONE DIA. = (1.5 x d_2)
5. d_4 = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6".
6. EXTEND THE RIPRAP APRON UP THE CHANNEL BANK TO THE TOP OF THE CHANNEL BANK.
7. A FILTER BLANKET OR FILTER FABRIC SHALL BE INSTALLED BETWEEN THE RIPRAP AND THE SOIL FOUNDATION. FILTER BLANKET IS INTENDED TO PREVENT SOIL MOVEMENT THROUGH THE OPENINGS IN RIPRAP.
8. RIPRAP APRON AND FILTER MATERIAL SHALL BE WELL GRADED, LEVEL, AND EXTENDED TO ACHIEVE MAX. STABILITY.

CURB INLET FILTER "PIGS IN BLANKET"



NOTES:
1. INSTALL FILTER AFTER ANY ASPHALT PAVEMENT INSTALLATION.
2. WRAP 8" CONCRETE BLOCKS IN FILTER FABRIC AND SPAN ACROSS CATCH BASIN INLET.
3. FACE OPENINGS IN BLOCKS OUTWARD.
4. LEAVE A GAP OF APPROXIMATELY 4 INCHES BETWEEN THE CURB AND THE FILTERS TO ALLOW FOR OVERFLOW TO PREVENT HAZARDOUS PONDING.
5. INSTALL OUTLET PROTECTION BELOW STORM DRAIN OUTLETS.

SEDIMENT BARRIER- NON-SENSITIVE



NOTES:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES ON PUBLIC ROADS.
2. REMOVE ALL VEGETATION AND OTHER UNSUITABLE MATERIAL FROM THE FOUNDATION AREA, GRADE, AND CROWN FOR POSITIVE DRAINAGE.
3. AGGREGATE SIZE SHALL BE IN ACCORDANCE WITH NATIONAL STONE ASSOCIATION R-2 (1.5-3.5" STONE).
4. GRAVEL PAD SHALL HAVE A MINIMUM THICKNESS OF 6".
5. PAD WIDTH SHALL BE EQUAL FULL WIDTH AT ALL POINTS OF VEHICULAR EGRESS, BUT NO LESS THAN 20".
6. A DIVERSION RIDGE SHOULD BE CONSTRUCTED WHEN GRADE TOWARD PAVED AREA IS GREATER THAN 2%.
7. INSTALL PIPE UNDER THE ENTRANCE IF NEEDED TO MAINTAIN DRAINAGE DITCHES.
8. WHEN WASHING IS REQUIRED, IT SHOULD BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN (DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE ENTRANCE TO A SEDIMENT CONTROL DEVICE).
9. WASHRACKS AND/OR TIRE WASHERS MAY BE REQUIRED DEPENDING ON SCALE AND CIRCUMSTANCE. IF NECESSARY, WASHRACK DESIGN MAY CONSIST OF ANY MATERIAL SUITABLE FOR TRUCK TRAFFIC THAT REMOVE MUD AND DIRT.
10. MAINTAIN AREA IN A WAY THAT PREVENTS TRACKING AND/OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEANOUT OF ANY MEASURES USED TO TRAP SEDIMENT.

Ds2 SPECIES AND PLANTING SCHEDULE

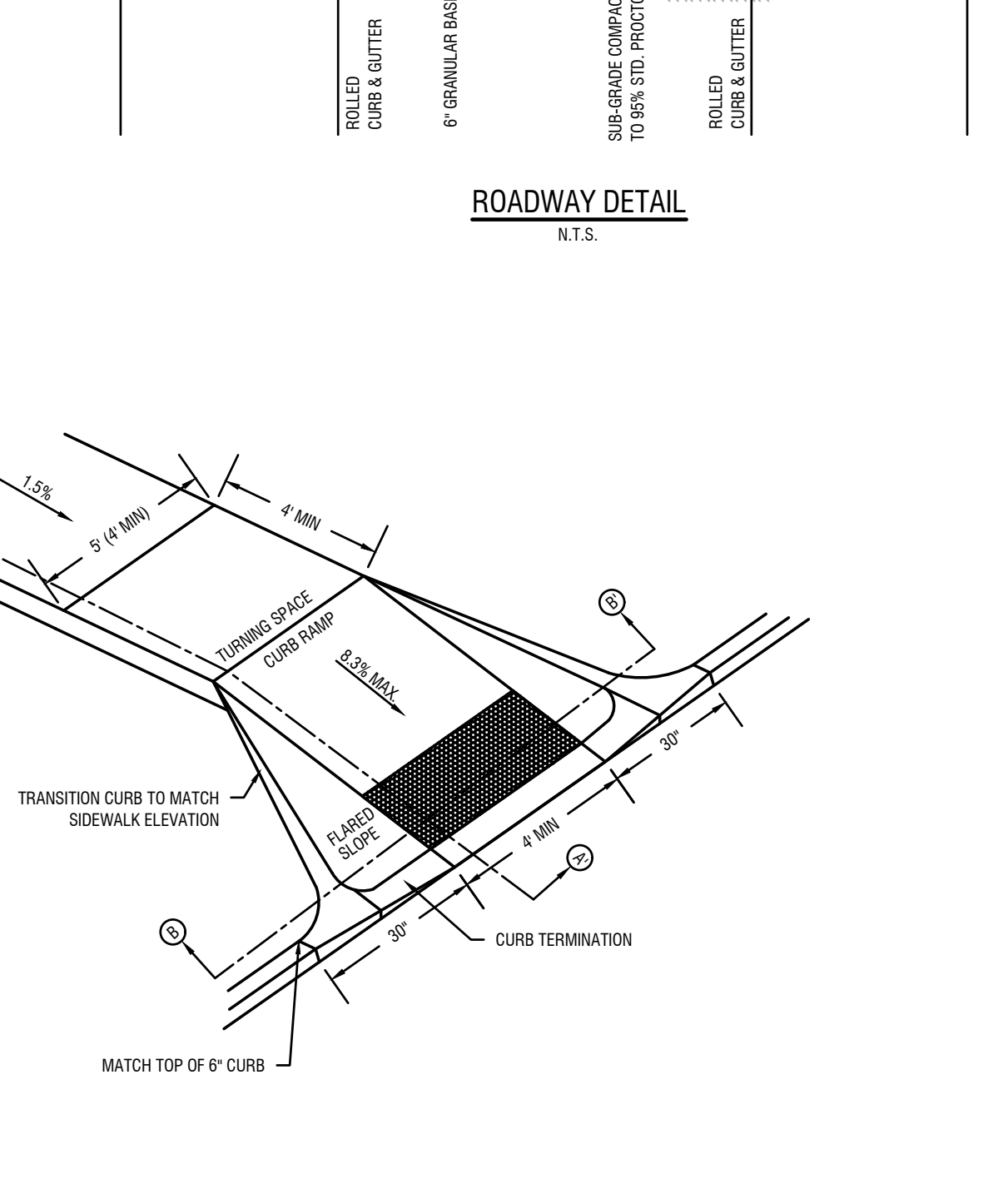
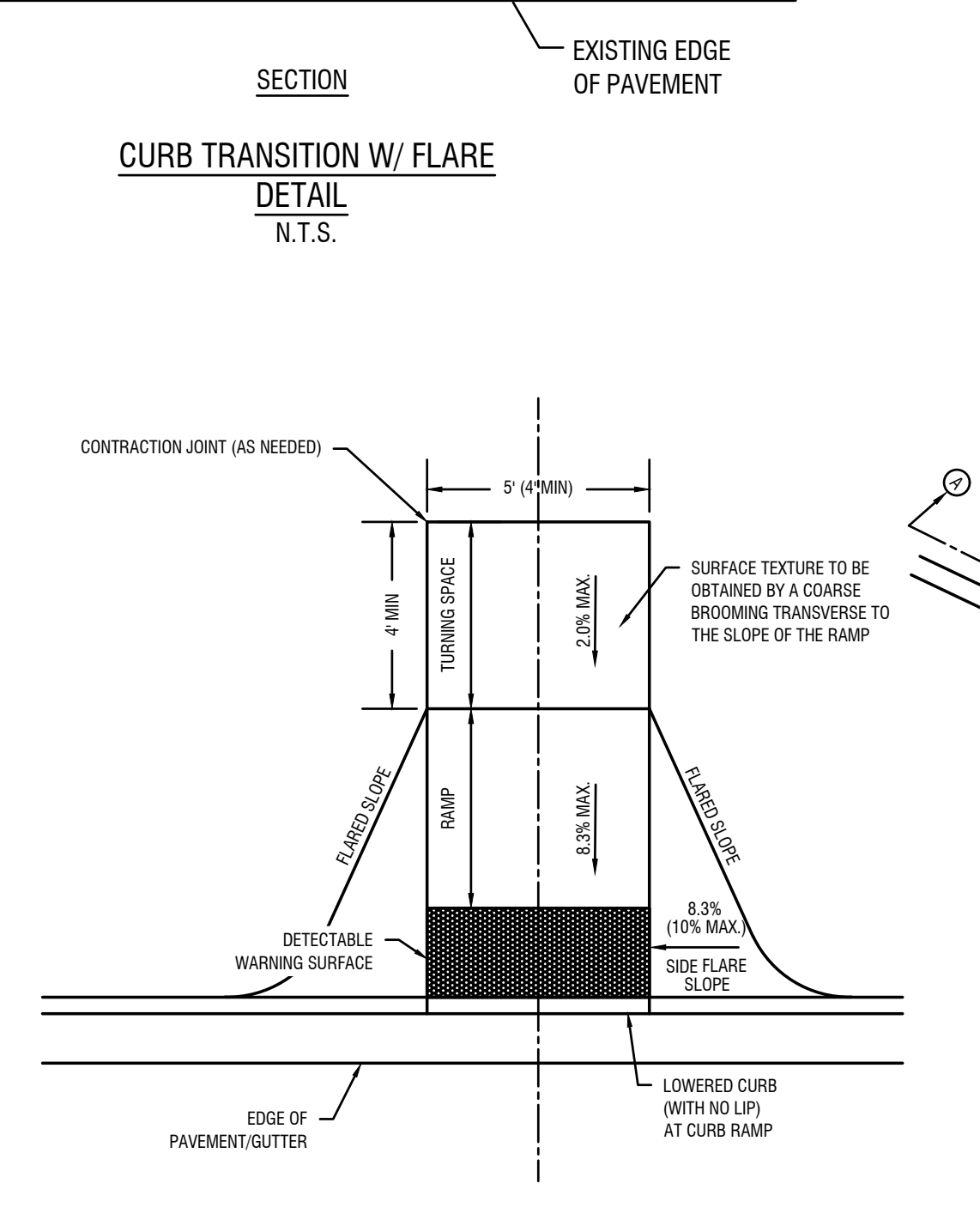
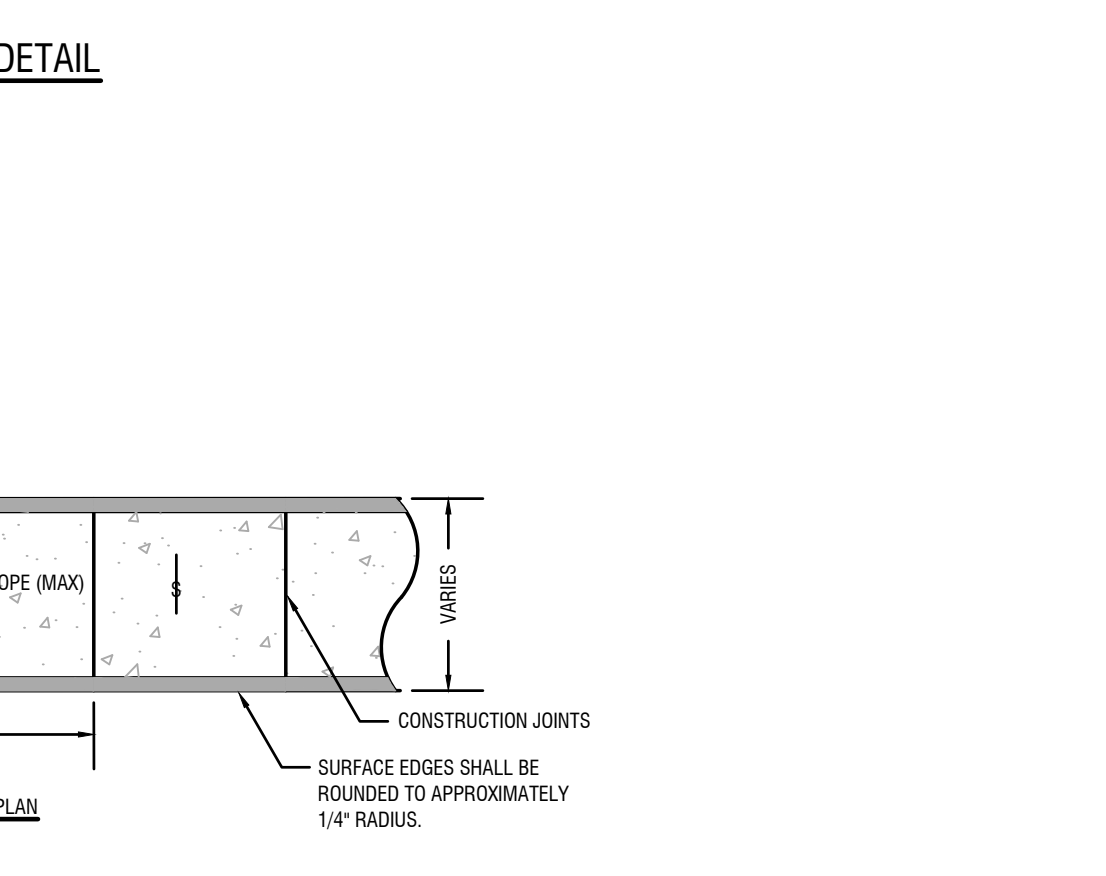
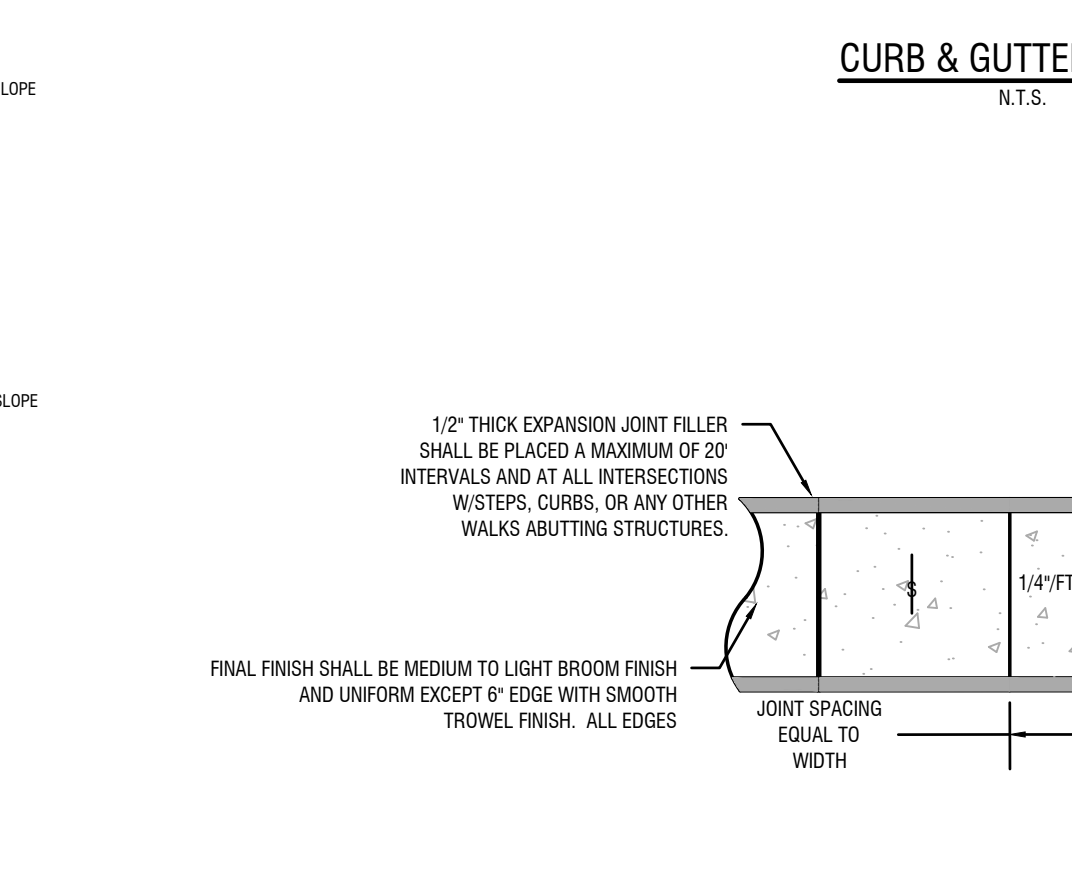
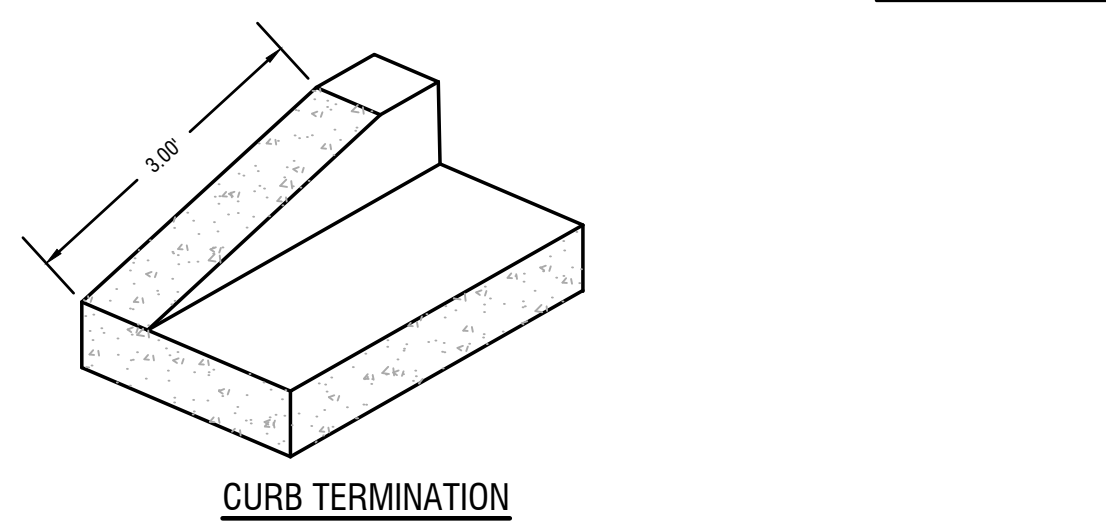
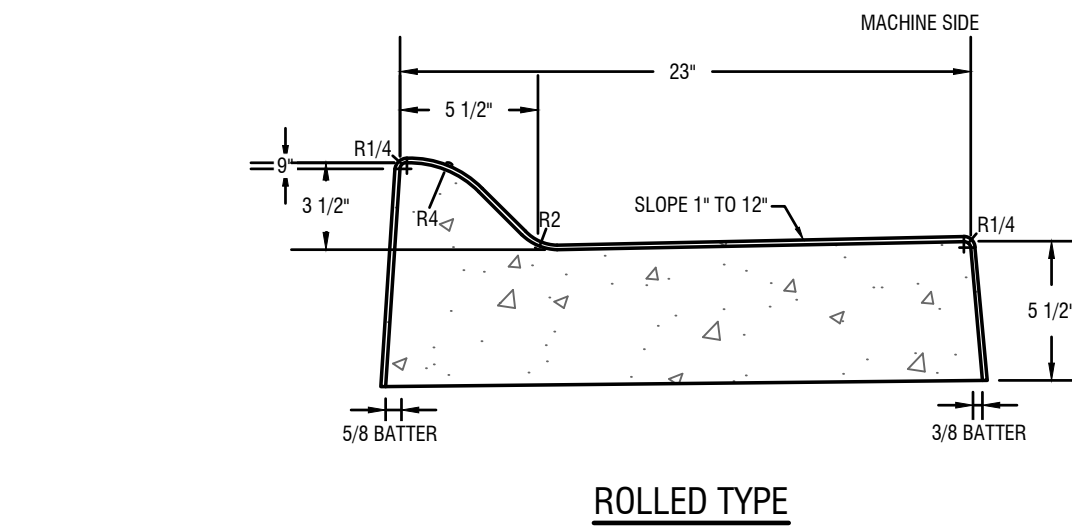
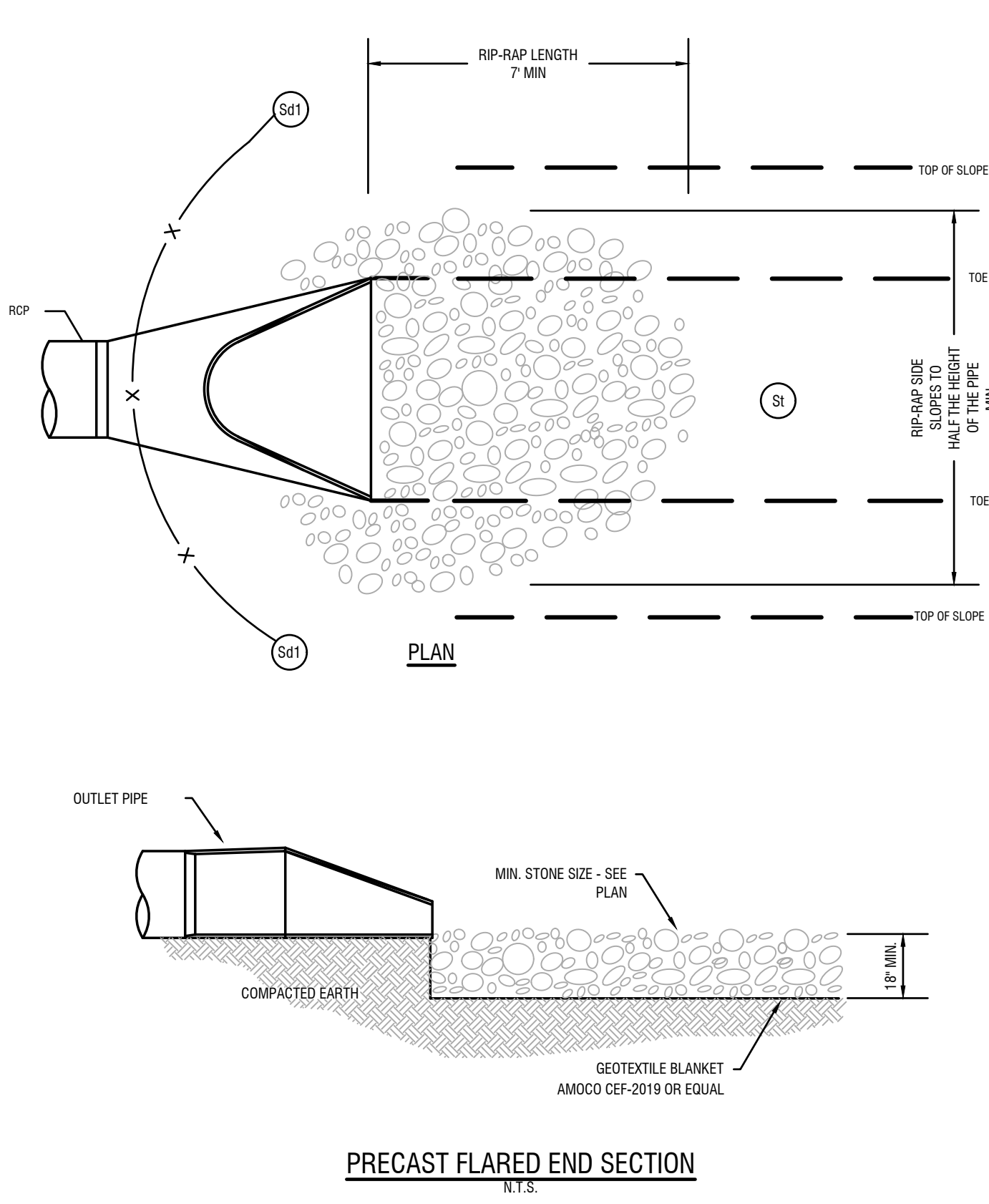
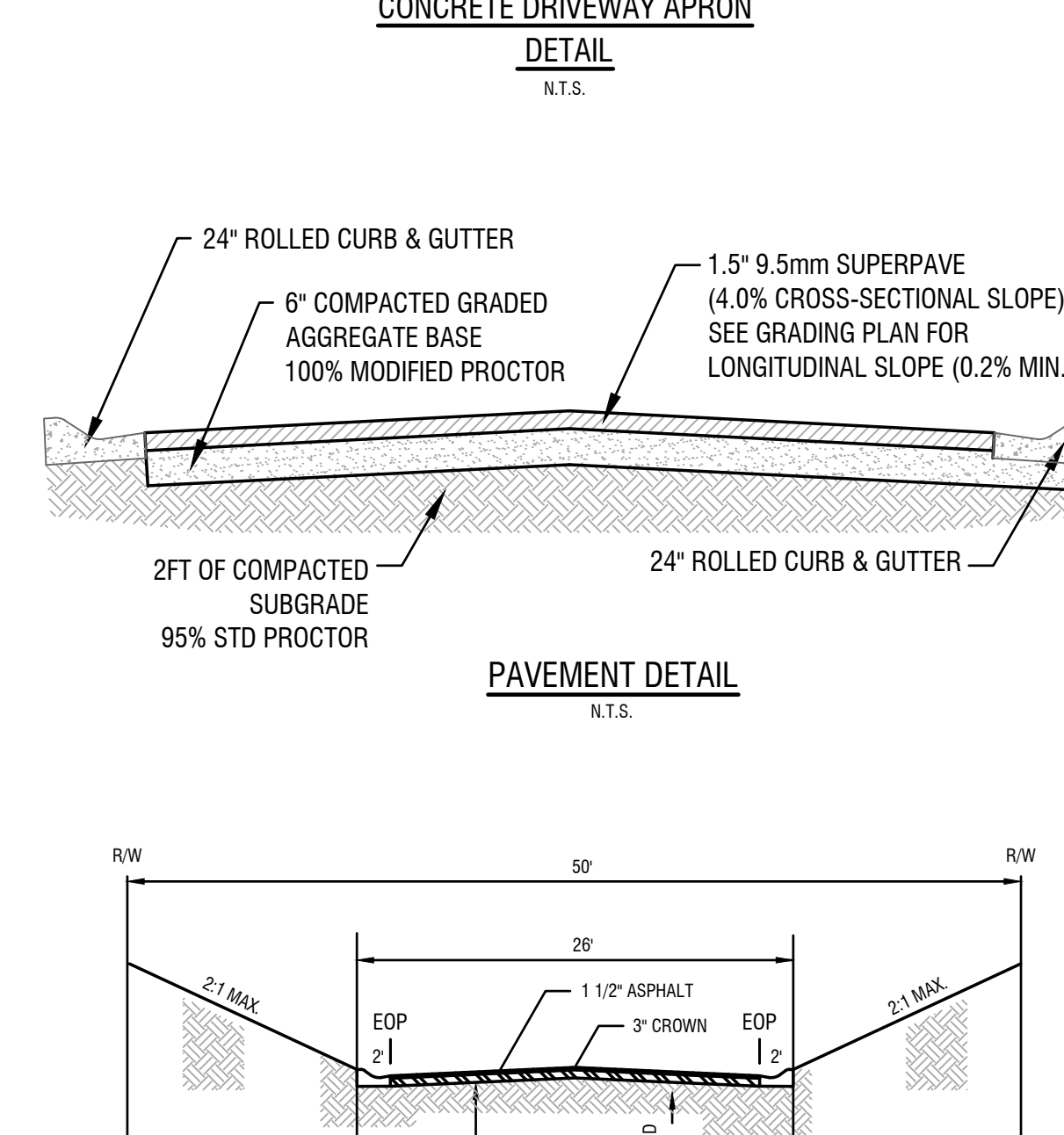
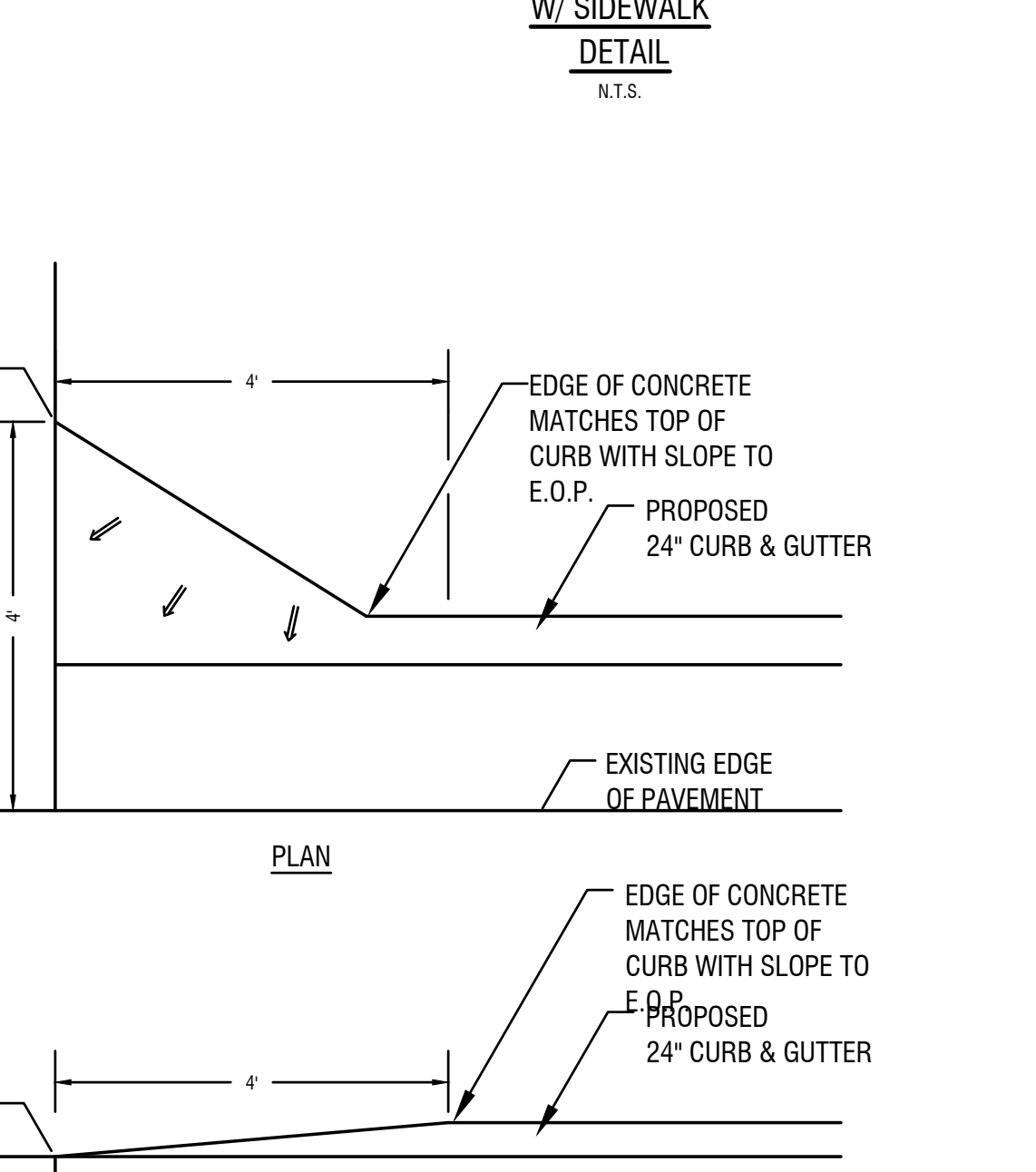
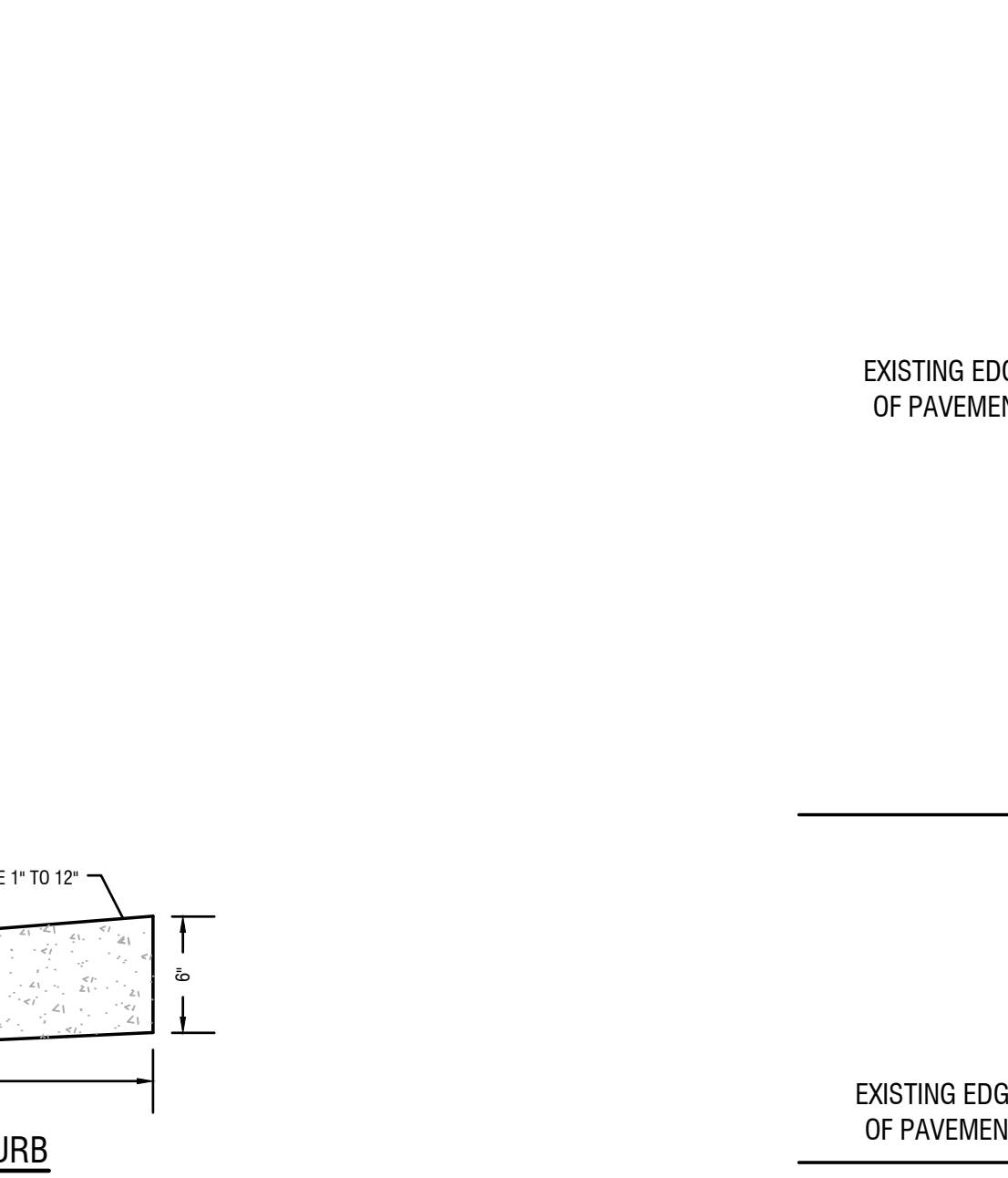
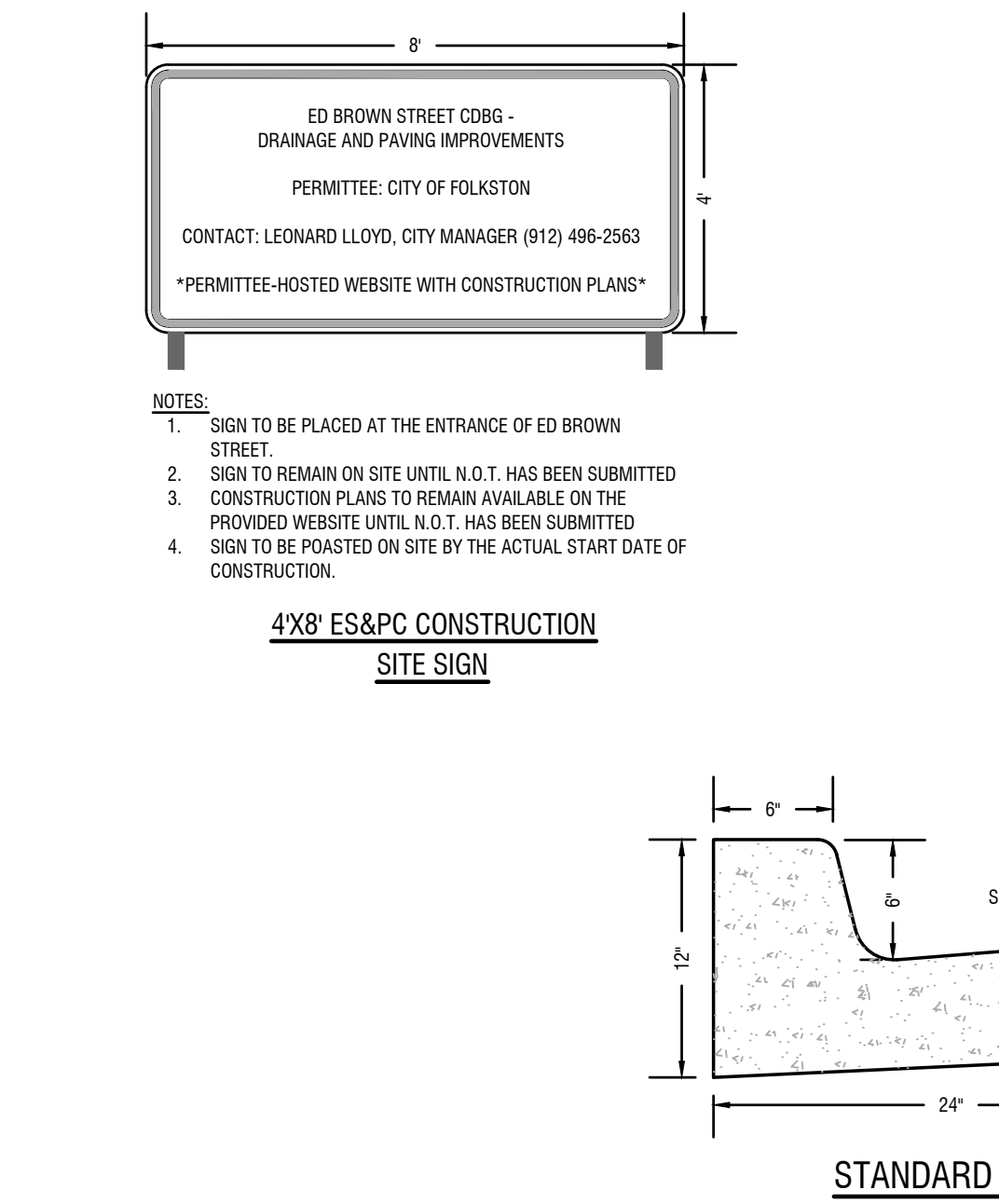
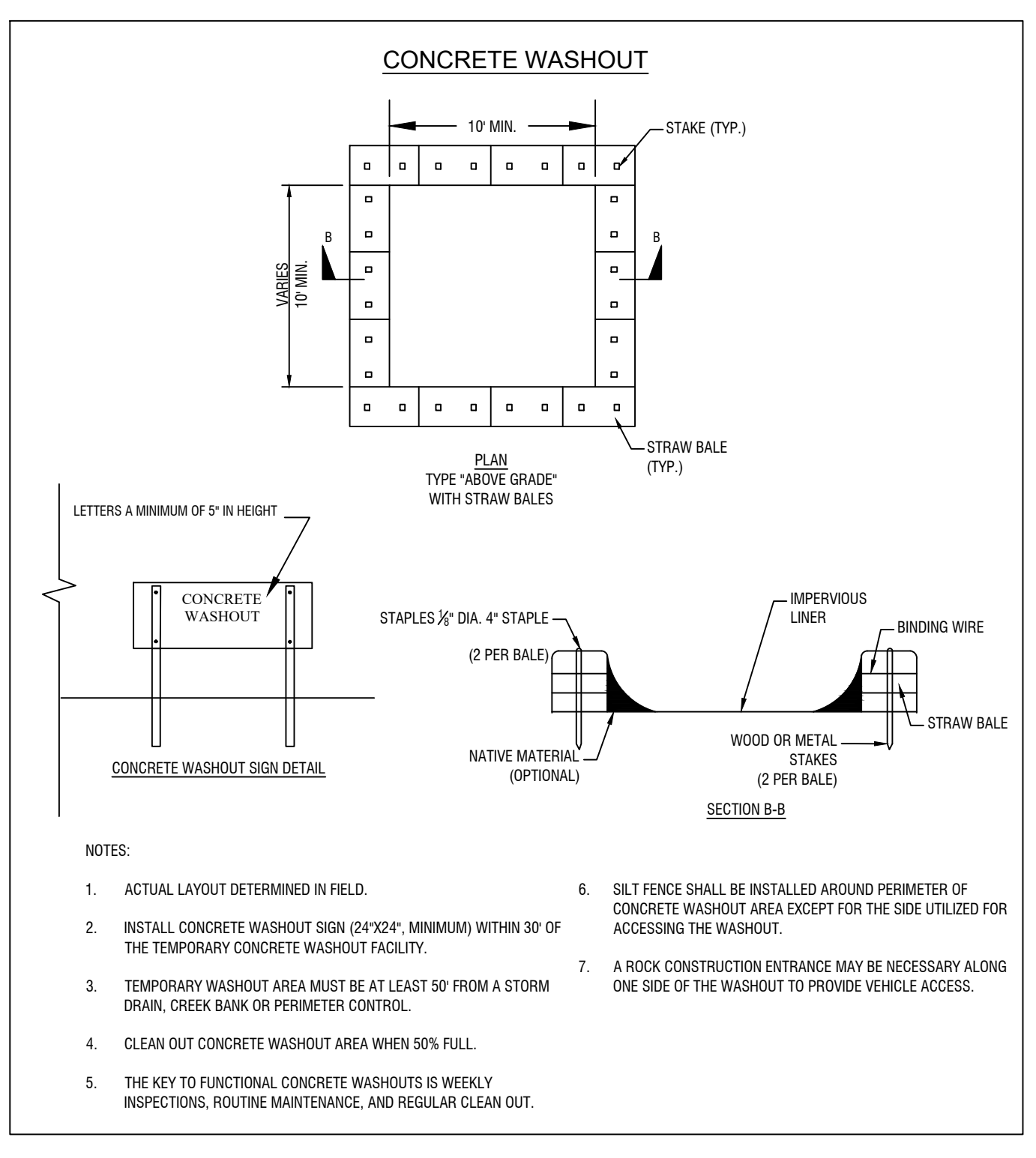
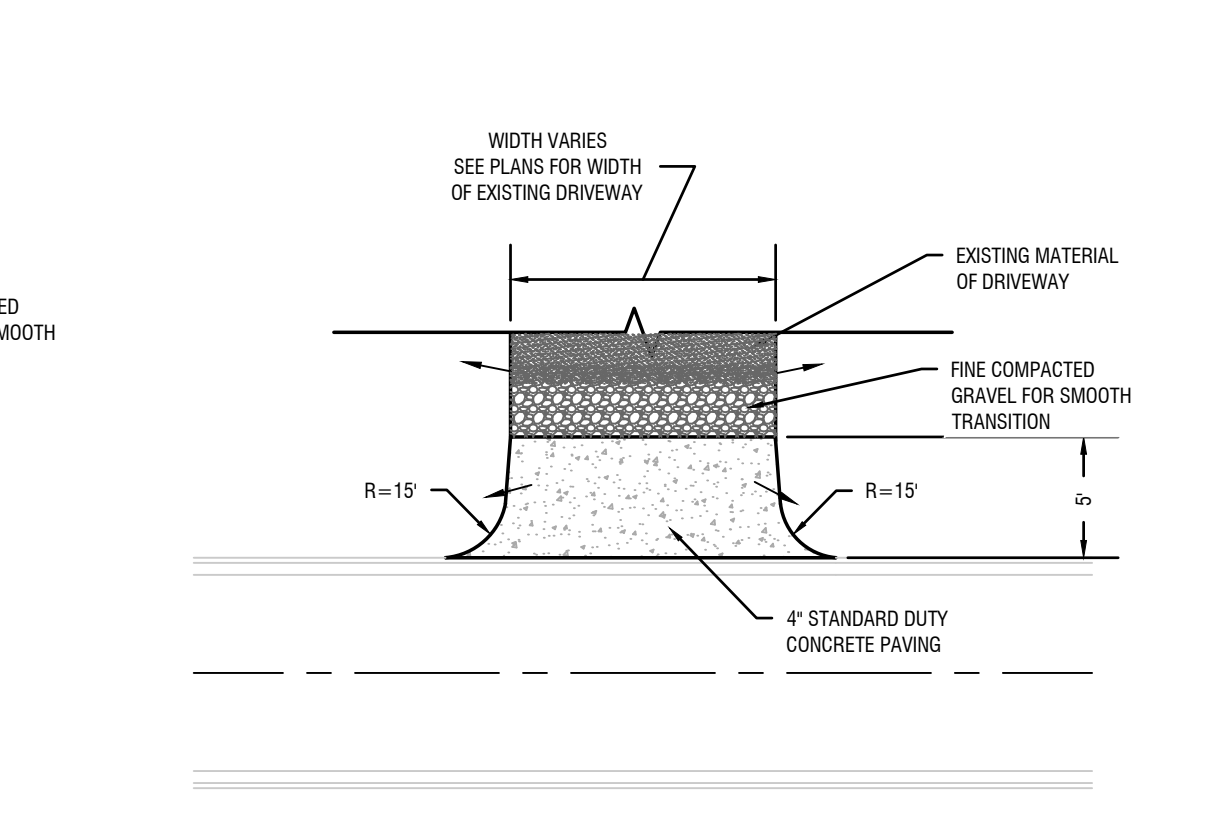
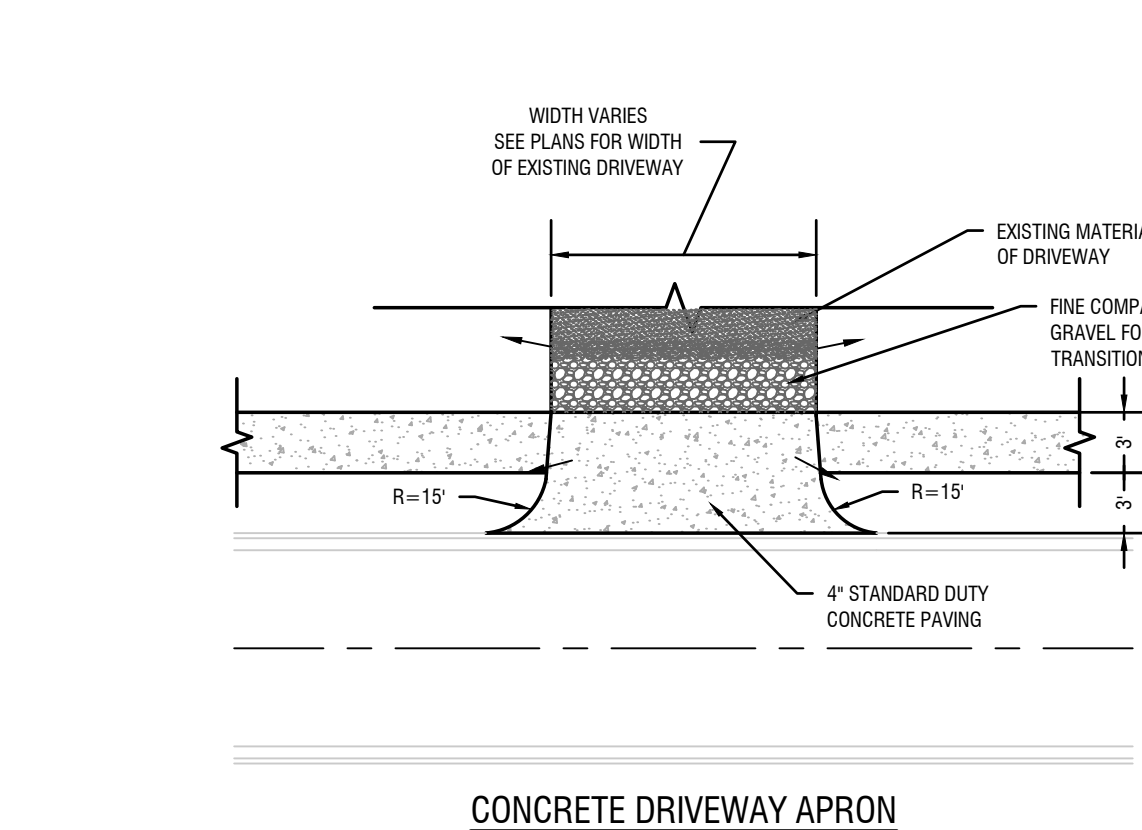
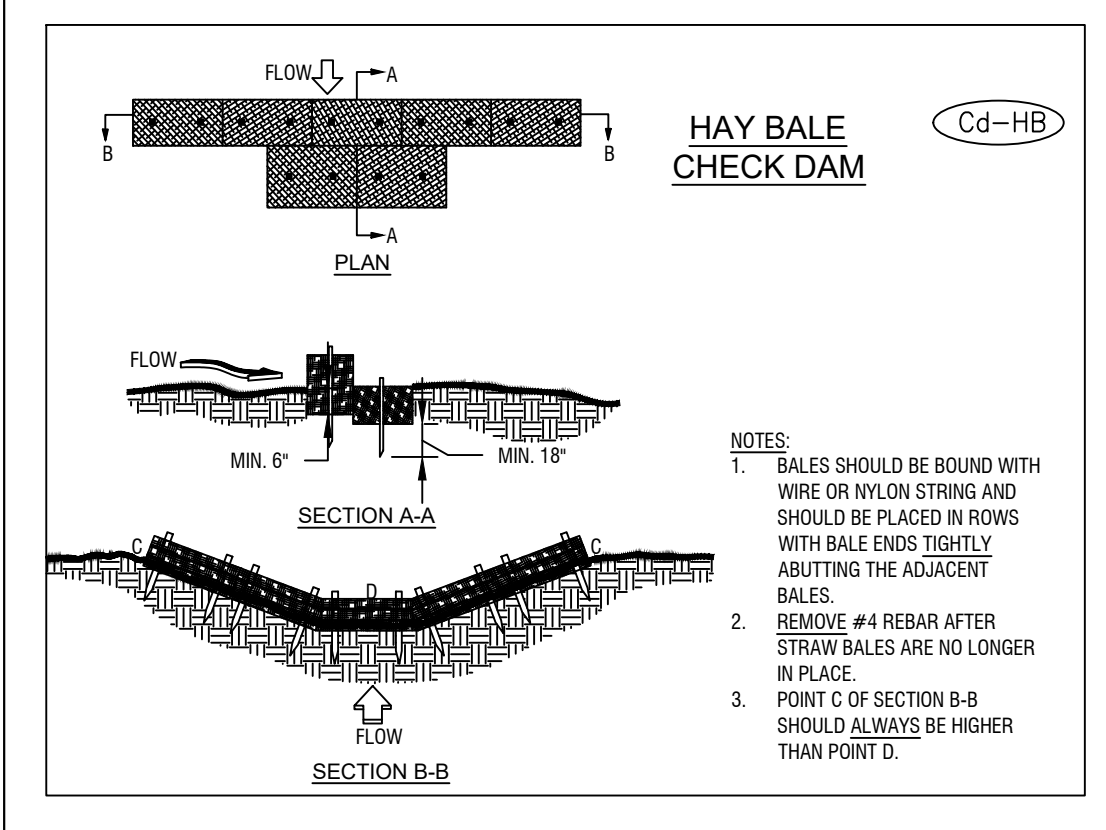
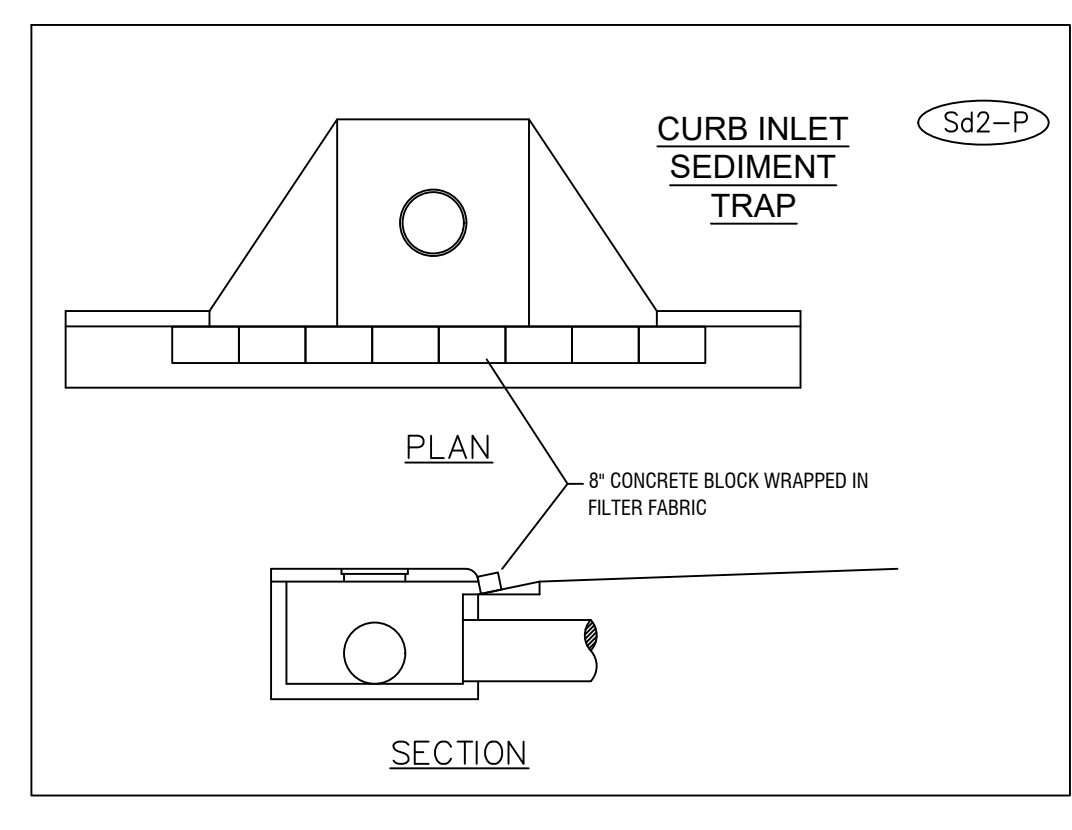
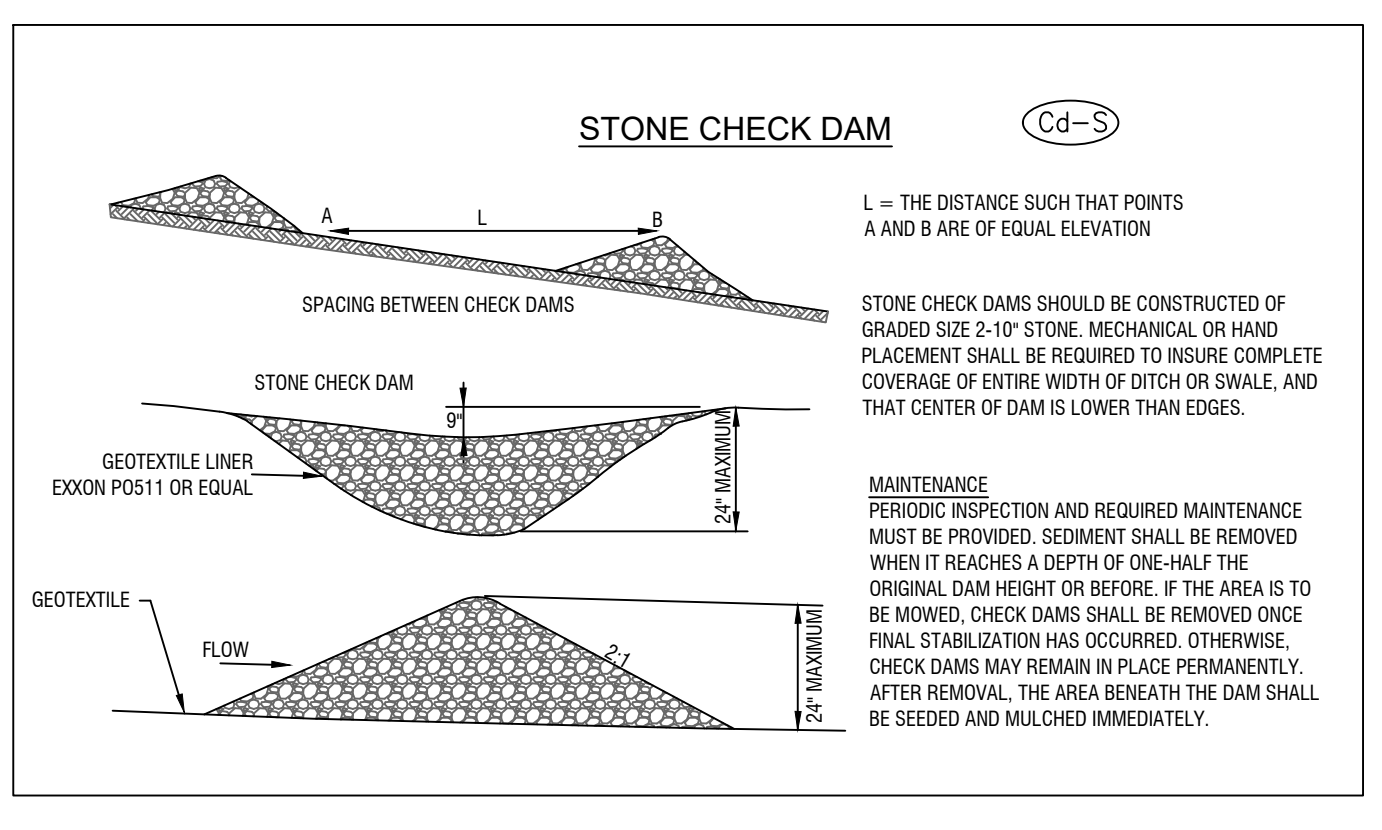
SPECIES	BROADCAST RATES 1* PL2 2* PER ACRE 1000 SF	RESOURCE AREA 3*	PLANTING DATES BY RESOURCE AREAS*												REMARKS		
			J	F	M	A	M	J	J	A	S	O	N	D			
RYEGRASS, ANNUAL ALONE	40 lbs 0.9 lbs	M-L P C															227,000 SEED PER POUND. DENSE COVER. VERY COMPETITIVE AND IS NOT BE USED IN MIXTURES.

Ds3 SPECIES AND PLANTING SCHEDULE

SPECIES	BROADCAST RATES 1* PL2 2* PER ACRE 1000 SF	RESOURCE AREA 3*	PLANTING DATES BY RESOURCE AREAS*												REMARKS		
			J	F	M	A	M	J	J	A	S	O	N	D			
BERMUDA COMMON HULLED SEED ALONE WITH OTHER PERENNIALS	10 lbs 0.2 lbs 6 lbs 0.1 lbs	P C															1,787,000 SEED PER POUND. QUICK COVER. LOW GROWING AND SOD FORMING. FULL SUN. GOOD FOR ATHLETIC FIELDS.
BERMUDA COMMON UNHULLED SEED ALONE WITH OTHER PERENNIALS		P C															PLANT WITH WINTER ANNUALS. PLANT WITH TALL FESCUE.
BERMUDA SPRINGS COASTAL COMMON, MIDLAND, OR TIF 44 COASTAL COMMON, TIF 44 TIF 78	40 CU FT 0.9 CU FT OR SOD PLUGS 9 X 9	M-L P C C															A CUBIC FT. CONTAINS APPROXIMATELY 650 SPRINGS. A BUSHEL CONTAINS 1.25 CF. OR APPROXIMATELY 800 SPRINGS. SAME AS ABOVE. SOUTHERN COASTAL PLAIN ONLY

FERTILIZER REQUIREMENTS

TYPE OF SPECIES	YEAR	ANALYSIS OR EQUIVALENT	RATE	N TOP DRESSING RATE	LIME APPLICATION
Cool Season Grasses	First	6-12-12	1500 lbs/ac	50-100 lbs/ac 1*2*	2000 lbs/ac
	Second	6-12-12	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Cool Season Grasses and Legumes	First	6-12-12	1500 lbs/ac	0-50 lbs/ac 1*	2000 lbs/ac
	Second	6-12-12	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Ground Covers	First	10-10-10	1500 lbs/ac	--	--
	Second	10-10-10	1000 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Fine Seedlings	First	20-10-5	one 21-gallon pail per seeding placed in the closing hole	--	--
	Second	10-10-10	700 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs/ac	--	--
Shrub Leapedezza	First	0-10-10	700 lbs/ac	--	--
	Second	0-10-10	700 lbs/ac	--	--
	Maintenance	10-10-10	400 lbs		



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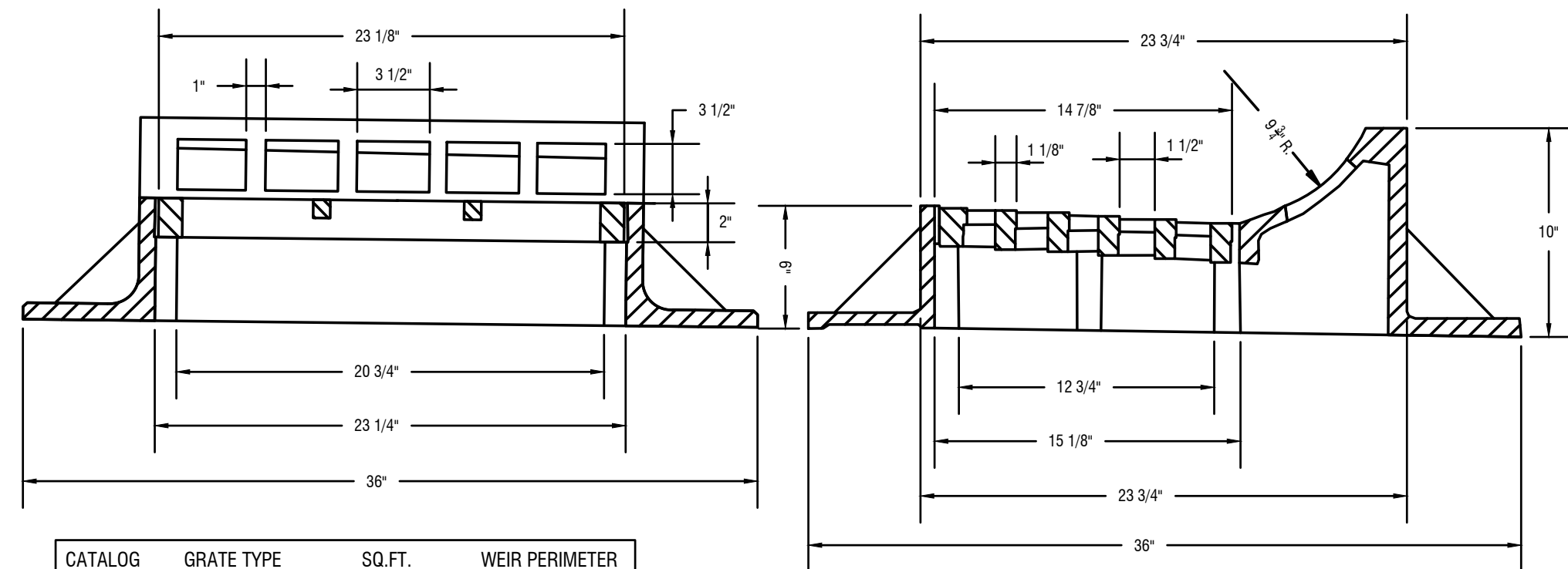
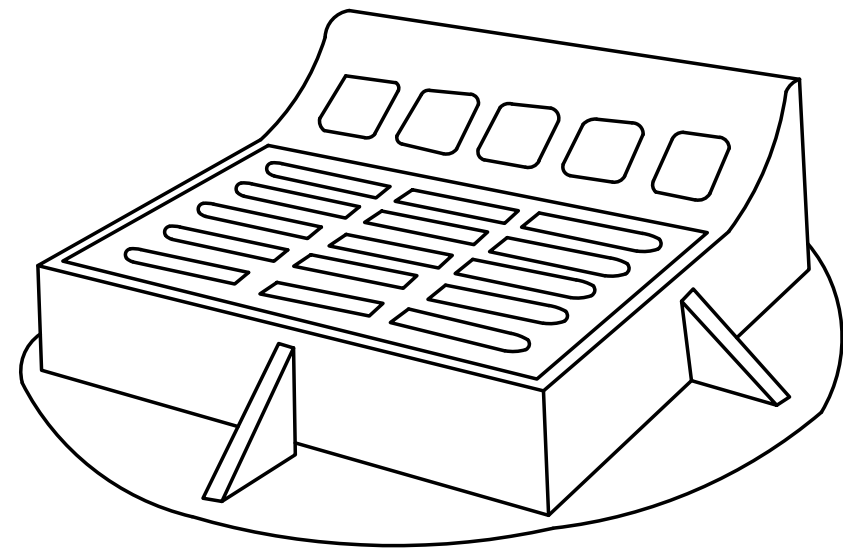
DRAINAGE AND PAVING IMPROVEMENTS

DETAILS

C306

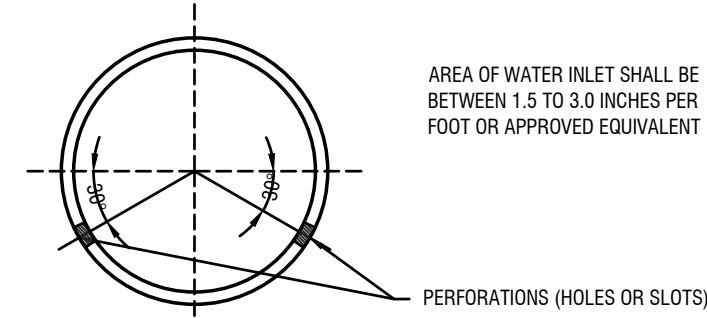
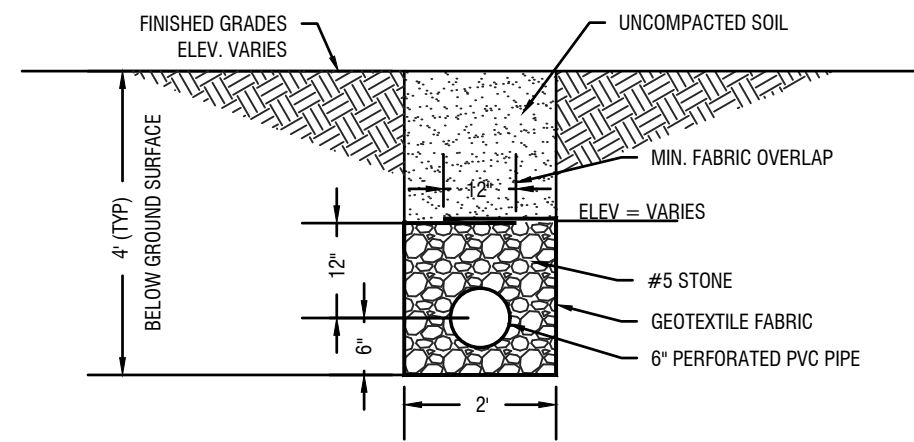
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PLOT DATE: January 8, 2026

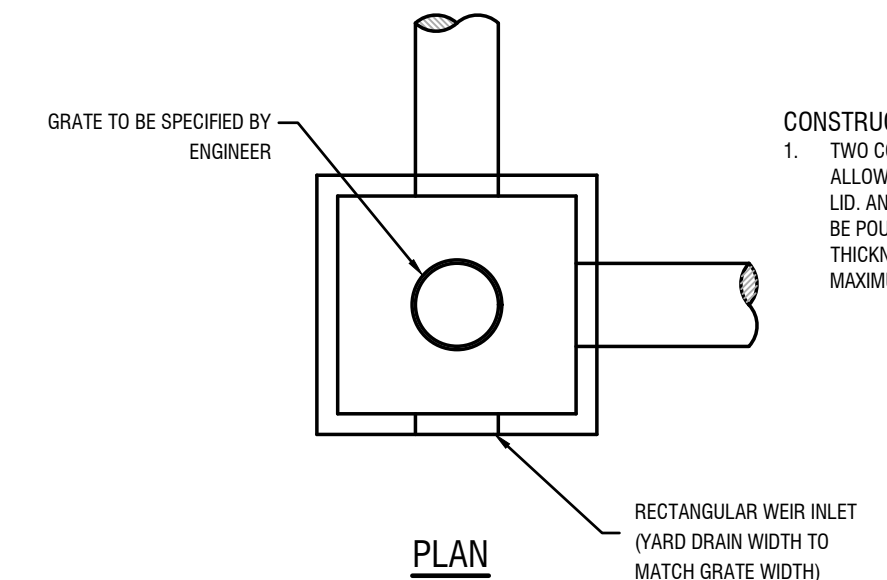


CATALOG NUMBER	GRATE TYPE	SQ. FT. OPEN	WEIR PERIMETER LINEAL FEET
R-3501-L1A	C	1.2	4.4

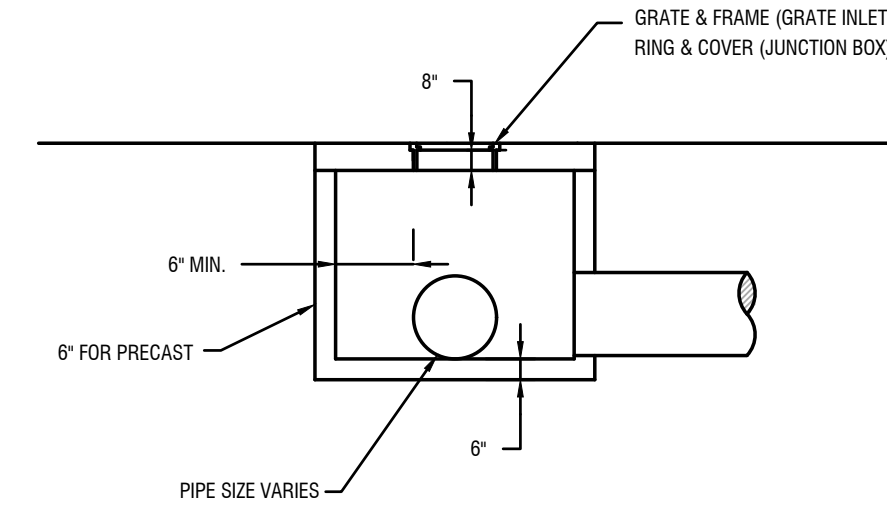
ROLL C.I. GRATING & FRAME DETAIL
N.T.S.



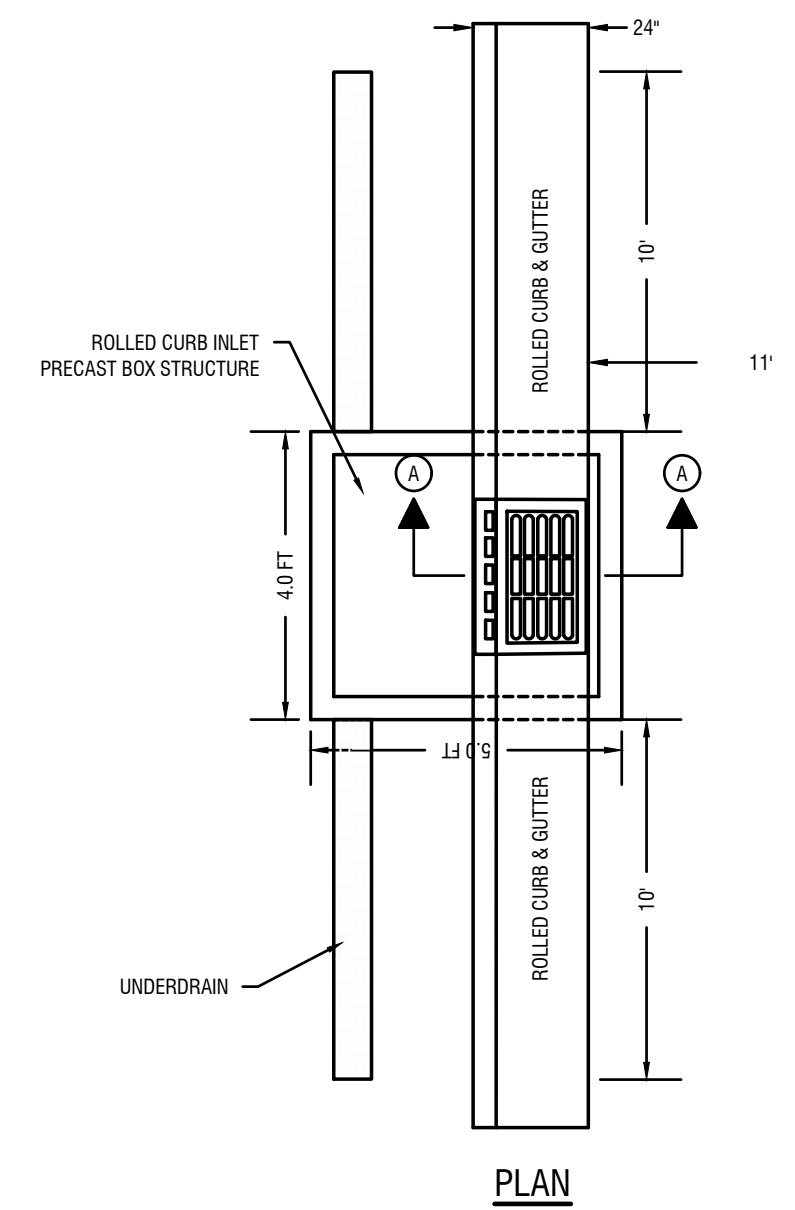
UNDERDRAIN TYPICAL DETAIL
N.T.S.



CONSTRUCTION NOTES:
1. TWO COURSES OF BRICK MAX SHALL BE ALLOWED FOR LEVELING AND ADJUSTMENT OF LID. ANY SUPPORT OTHER THAN BRICK SHALL BE POURED IN PLACE MATCHING THE THICKNESS OF THE PRECAST WALL TO A MAXIMUM HEIGHT OF 24 INCHES.

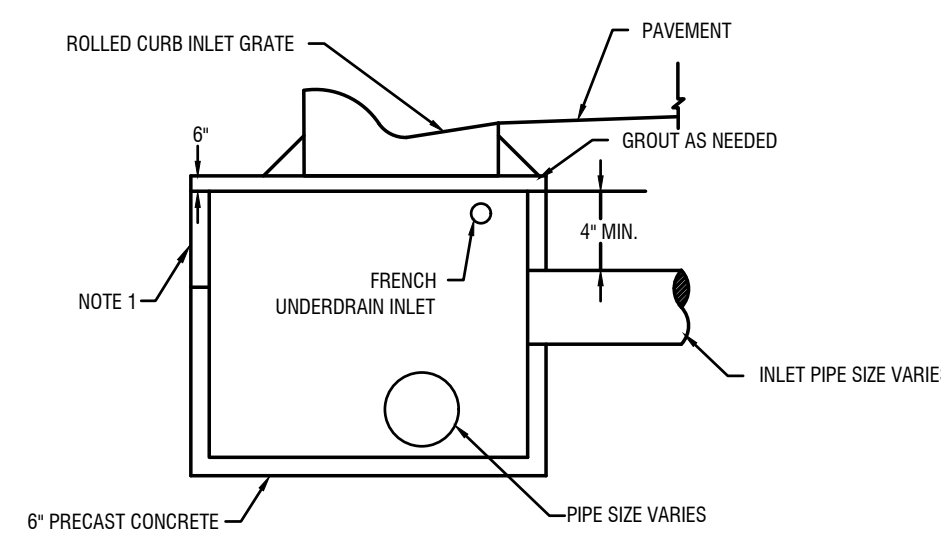


JUNCTION BOX / GRATE INLET
N.T.S.

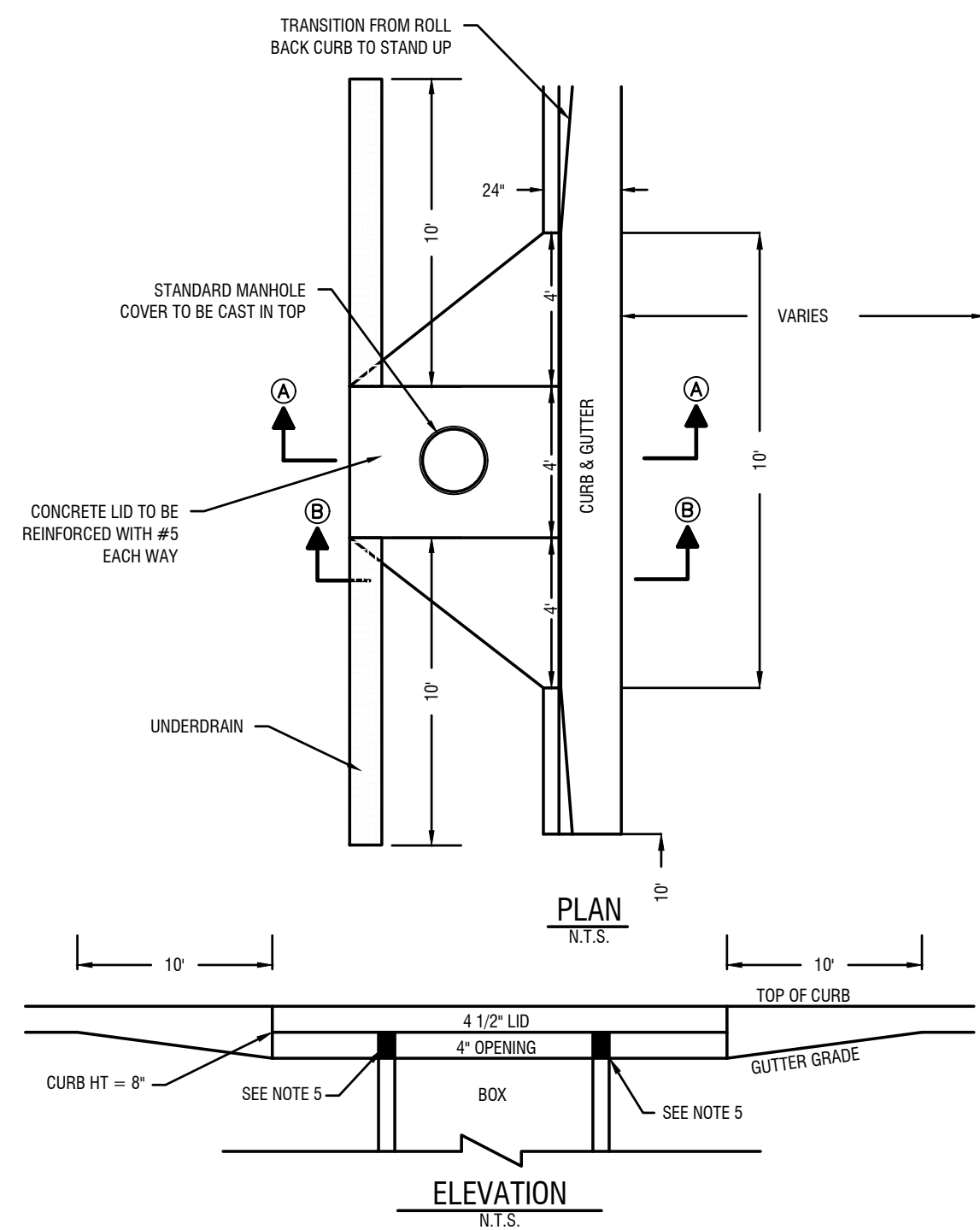


DROP INLET CATCH BASIN W/ TRENCH DRAIN
N.T.S.

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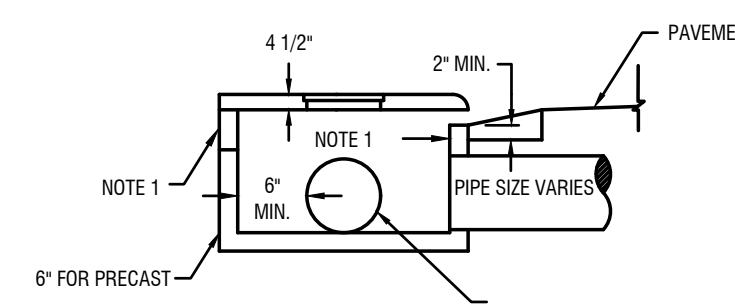
SECTION A-A
N.T.S.



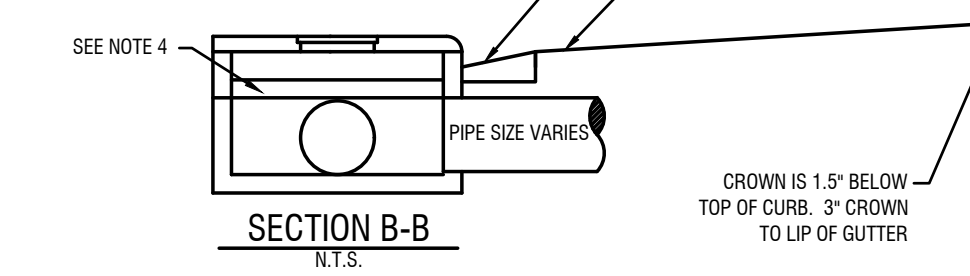
DOUBLE WING CATCH BASIN
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CONSTRUCTION NOTES:

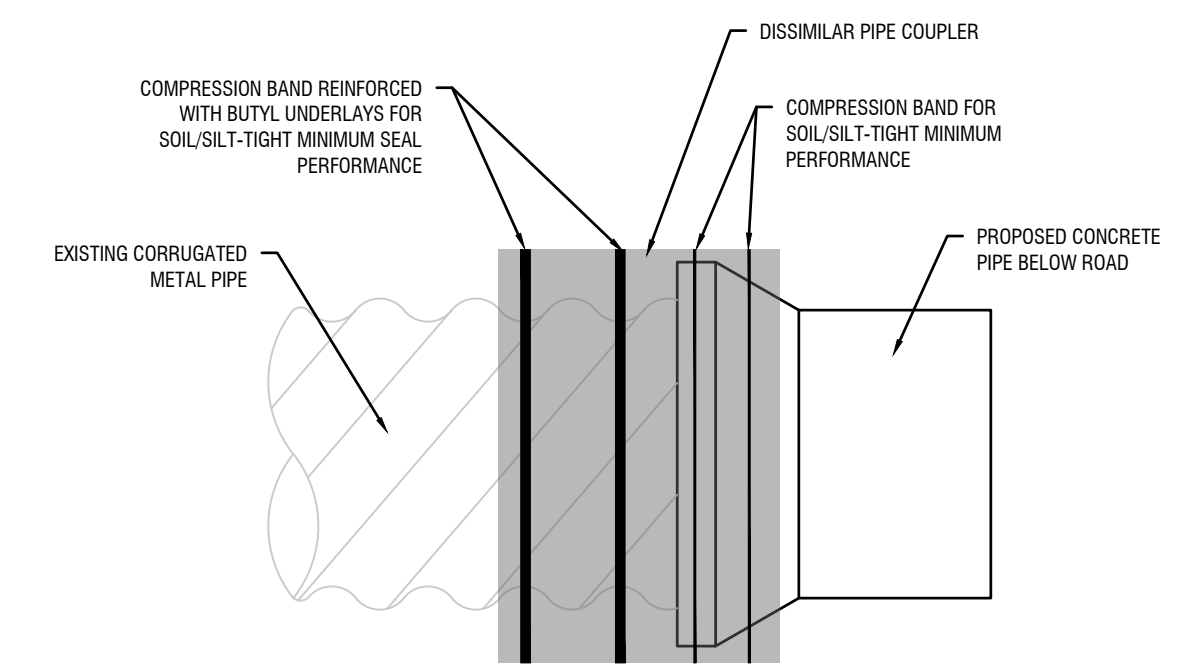
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SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



NOTES:
1. COUPLER SHALL BE HEAVY DUTY WITH 4 COMPRESSION BANDS TO MECHANICALLY SEAL THE COUPLER TO THE PIPE WALLS.
2. CMP/CSP SHALL INCLUDE ADDED BUTYL ROPE TO PROPERLY SEAL CORRUGATIONS. A CUSTOM DP COUPLER IS REQUIRED FOR ANY NON-ROLLERED CMP.

DISSIMILAR PIPE COUPLER
N.T.S.

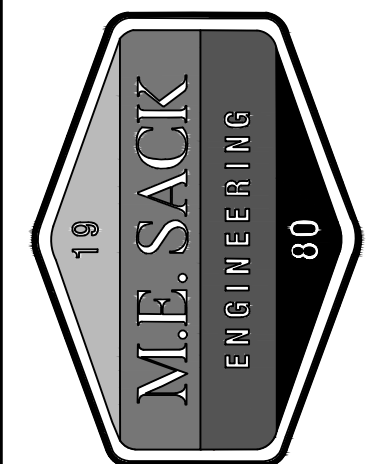
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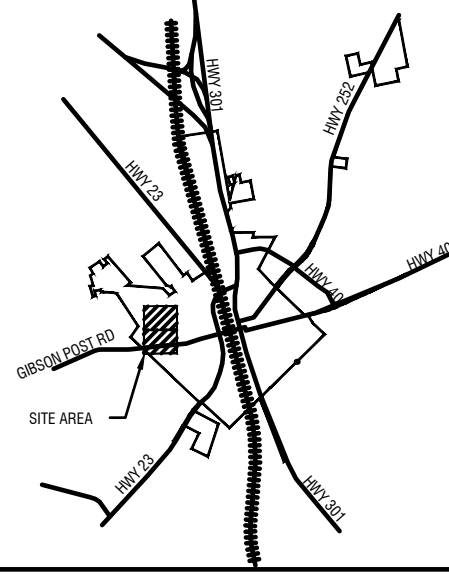
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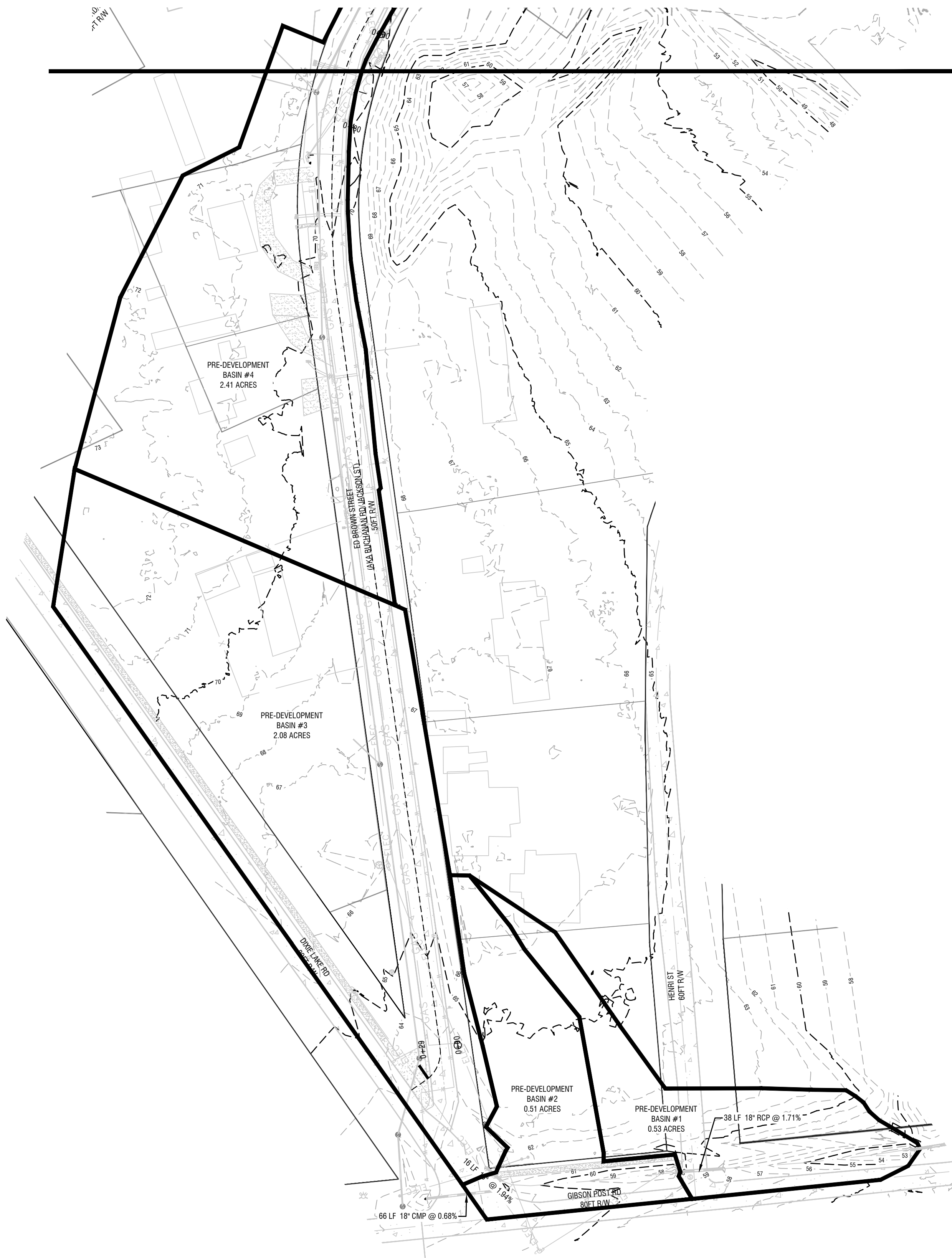
DETAILS

C307

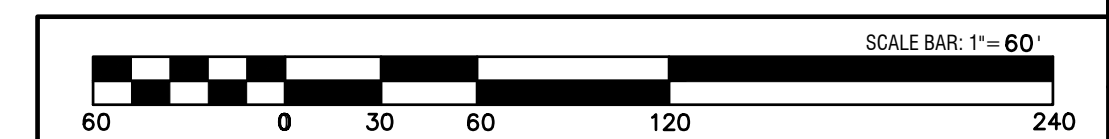
FILE NO: 2023-01
PLOT DATE: January 8, 2026



VICINITY MAP
NOT TO SCALE



CONTINUATION LINE



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<p>DRAINAGE AND PAVING IMPROVEMENTS</p>										
<p>PRE-DEVELOPMENT BASINS</p>										
<p>C401</p>										
<p>FILE NO: 2023-01 PLOT DATE: January 8, 2026</p>										

