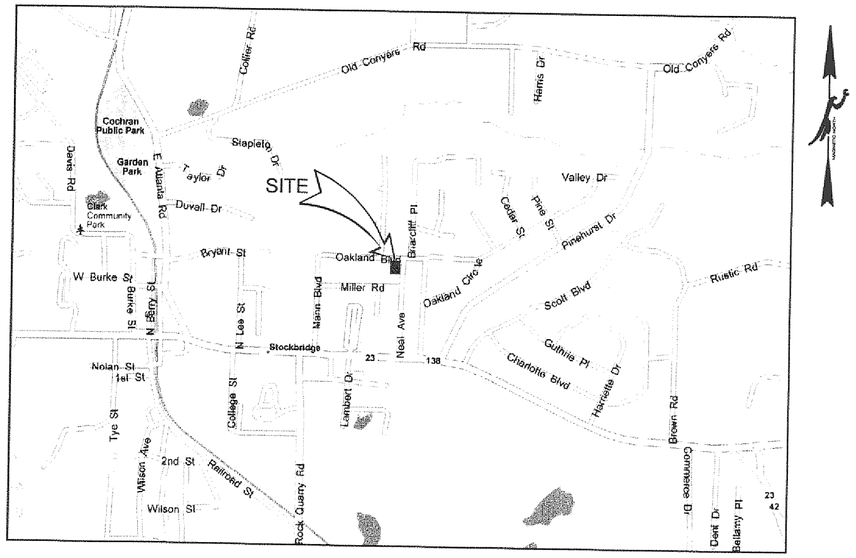
CIVIL DESIGN DRAWINGS
FOR
OAKLAND BLVD.
DRAINAGE IMPROVEMENTS

FOR THE
CITY OF STOCKBRIDGE, GEORGIA
LAND LOT 62; 12th DISTRICT



VICINITY MAP
NOT TO SCALE

SOURCE OF BOUNDARY AND TOPOGRAPHIC INFORMATION:
HENRY COUNTY G.I.S. AND FIELD SURVEY BY FALCON DESIGN CONSULTANTS, LLC

FLOOD NOTE:
NO PORTIONS OF THIS SITE ARE WITHIN A SPECIAL FLOOD ZONE "A" PER FEMA FIRM MAP NO. 13151C0068C, EFFECTIVE DATE: MAY 16, 2006

ENGINEER/SURVEYOR:
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235 CORPORATE CENTER DR.
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(678) 833-3304

SHEET INDEX

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4.0	CONSTRUCTION DETAILS

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COVER SHEET
FOR
OAKLAND BLVD
DRAINAGE IMPROVEMENTS
LOCATED IN:
CITY OF STOCKBRIDGE, GA
L.L. 62, 12th DISTRICT

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DATE:	5/14/2014
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FILE NUMBER:	NEALAVE
DRAWN BY:	ALP
REVIEWED BY:	APRICE

GEORGIA REGISTERED No. 030440 PROFESSIONAL ENGINEER ADAM L. PRICE
5/14/14

SHEET NUMBER
1.0

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P:\Projects\City of Stockbridge\Neal Avenue\dwg\NEAL-AVE-ENG - C3D.10.dwg, CVR, jthompson, May 14, 2014 - 10:14:19am

THOMPSON BLVD.
50' R/W.

APPROX. R/W

N/F
JONES, CARRIE L
D.B. 62, PG. 12

125 OAKLAND BLVD.

REGRADE DITCH

0+00

FES A5

18" CMP

24" CMP

786

790

18" CMP
MAILBOX

18" CMP

CLASS "A" PAVEMENT REPLACEMENT

OAKLAND BOULEVARD 50' R/W

CB A4

DA = 0.08 AC.

CLASS "A" PAVEMENT REPLACEMENT

DA = 0.04 AC.

2+37

CB A1

1+00

2+00

BEND A3

BEND A2

MAILBOX

EXISTING MAILBOX

RELOCATE RAISED SIDEWALK

RELOCATED MAILBOX

Ds1
Ds2
Ds3
Ds4

ALL DISTURBED AREAS

Sd1-A

RELOCATED MAILBOX

RELOCATE RAISED SIDEWALK

N/F
BERNARDINA, BOWEN
D.B. 21, PG. 168

124 OAKLAND BLVD.

NOTE: ALL LAND DISTURBANCE TO OCCUR IN RIGHT OF WAY.

786

790

EXISTING SILT FENCE

WOODPILE

N/F
RODGERS, RONDA
D.B. 9681, PG. 239

123 NEAL AVE.

EXISTING SILT FENCE

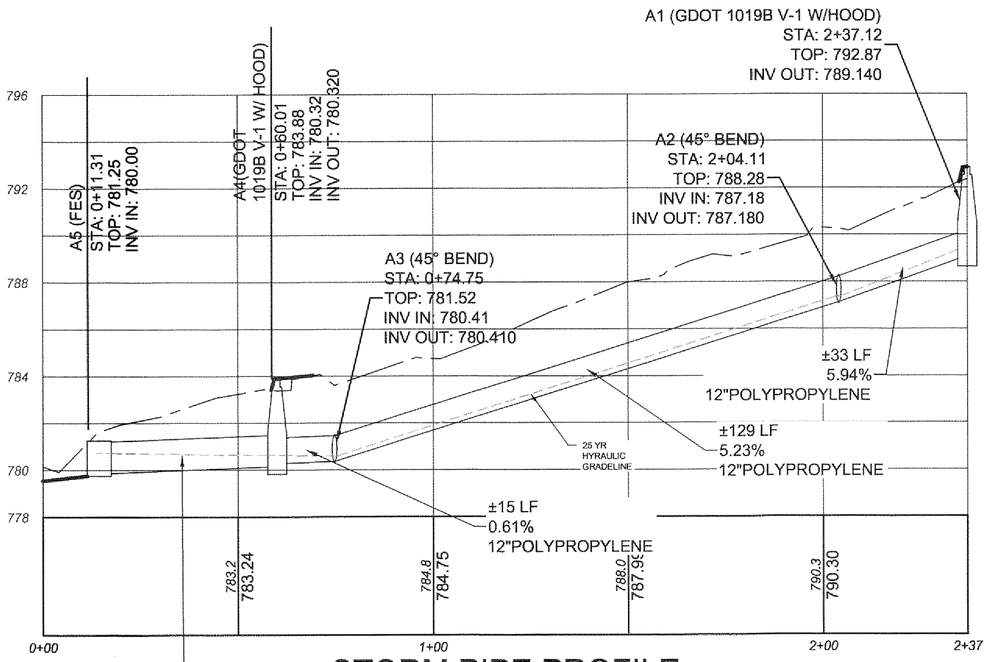
NEAL AVENUE

GRAPHIC SCALE

20 0 10 20 40 80

(IN FEET)
1 inch = 20 ft.

MAGNETIC NORTH



STORM PIPE PROFILE

HORZ. 1" = 30
VERT. 1" = 5

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EROSION, SEDIMENTATION AND POLLUTION CONTROL NOTES:

1. THE RECEIVING WATERS FOR THE PROJECT IS AN UNNAMED TRIBUTARY OF BRUSH CREEK.

2. 24 HOUR CONTACT PERSON: KEVIN WALTER - (678) 373-6765

3. TOTAL DISTURBED AREA FOR THIS PROJECT: 0.05 AC.

4. STATE WATERS AND OR WETLANDS ARE NOT LOCATED WITHIN 200 FEET OF SITE DISTURBED AREA. NON-EXEMPT ACTIVITIES SHALL NOT BE CONDUCTED WITHIN THE 25 FOOT UNDISTURBED STREAM BUFFER AS MEASURED FROM THE POINT OF WRESTED VEGETATION WITHOUT FIRST ACQUIRING THE NECESSARY VARIANCES AND PERMITS .

5. THE PRE-EXISTING RUNOFF CURVE NUMBER ON-SITE IS CN= 75. THE POST CONSTRUCTION RUNOFF CURVE NUMBER IS APPROXIMATELY CN= 75.

6. THE DESIGN PROFESSIONAL WHO PREPARED THE ES&PC PLAN, OR AN APPROVED ALTERNATE DESIGN PROFESSIONAL, WILL INSPECT THE INITIAL INSTALLATION OF THE BMP's INSTALLED ON THE SITE WITHIN 7 DAYS OF WHEN THE INITIAL CONSTRUCTION BEGINS AND ONCE NOTIFIED BY THE SITE OWNER/OPERATOR.

7. NO ADDITIONAL STORM PIPE ADDED FOR THIS PROJECT.

8. THIS PROJECT DOES NOT DISCHARGE STORM WATER INTO AN IMPAIRED STREAM SEGMENT, OR WITHIN 1 MILE UPSTREAM OF AND WITHIN THE SAME WATERSHED.

9. 67 CUBIC YARDS X 0.05 DISTURBED ACRES = 3.35 YARDS OF SEDIMENT STORAGE.
DUE TO THE SMALL AMOUNT OF DISTURBED ACREAGE, SEDIMENT BASINS WILL NOT BE CONSTRUCTED ONSITE. SOIL EROSION AND SEDIMENT CONTROL WILL BE DONE USING SILT FENCE AND GROUND COVER WITH GRASS AND/OR STRAW MULCH. NO ALTERNATIVE BMP'S ARE BEING USED ONSITE.

10. EROSION CONTROL MEASURES WILL BE MAINTAINED AT ALL TIMES. IF FULL IMPLEMENTATION OF THE APPROVED PLAN DOES NOT PROVIDE FOR EFFECTIVE EROSION CONTROL, ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IMPLEMENTED TO CONTROL OR TREAT THE SEDIMENT SOURCE.

11. ANY AMENDMENTS TO THE ES&PC PLAN WHICH HAVE A SIGNIFICANT EFFECT ON BMP's WITH A HYDRAULIC COMPONENT MUST BE CERTIFIED BY THE DESIGN PROFESSIONAL AND SUBMITTED TO THE LOCAL ISSUING AUTHORITY FOR APPROVAL.

12. NOTICE ! THE ESCAPE OF SEDIMENT FROM THE SITE SHALL BE PREVENTED BY THE INSTALLATION OF EROSION CONTROL MEASURES AND PRACTICES PRIOR TO, OR CONCURRENT WITH, LAND-DISTURBING ACTIVITIES.

13. ANY DISTURBED AREA LEFT EXPOSED FOR A PERIOD GREATER THAN 14 DAYS SHALL BE STABILIZED WITH MULCH OR TEMPORARY SEEDING.

14. ALL SILT FENCE SHALL COMPLY WITH GEORGIA D.O.T. STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE A LETTER OF WARRANTY THAT MATERIALS MEET THESE SPECIFICATIONS AND THAT THE FABRIC IS ON GA. D.O.T. Q.P.L. #36.

15. NOTIFY THE LOCAL ISSUING AUTHORITY 24 HOURS PRIOR TO COMMENCING WORK. NO CLEARING, GRADING, FILLING, OR OTHER LAND DISTURBING ACTIVITIES SHALL OCCUR UNTIL APPROVED EROSION AND SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED, EXCEPT THOSE ACTIVITIES REQUIRED TO INSTALL THE NEEDED EROSION AND SEDIMENT CONTROL MEASURES. EROSION CONTROL MEASURES WILL BE CONSTRUCTED AS REQUIRED BY THE DESIGN PROFESSIONAL OR THE LOCAL ISSUING AUTHORITY, IN ACCORDANCE WITH "THE MANUAL FOR EROSION AND SEDIMENT CONTROL IN GEORGIA", LATEST EDITION. PLEASE REFER TO THE EROSION AND SEDIMENT CONTROL DETAIL SHEET FOR ADDITIONAL NOTATIONS AND MISCELLANEOUS DETAILS.

16. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE CONTINUOUSLY MAINTAINED BY THE OWNER/OPERATOR DURING THE ENTIRE CONSTRUCTION PROCESS. TEMPORARY MEASURES SHALL BE REMOVED ONLY AFTER PERMANENT STABILIZATION OF ALL DITCHES, SHOULDERS, SLOPES AND ALL DISTURBED AREAS IS ACCOMPLISHED. TO FACILITATE ACCEPTANCE OF THE STREETS AND IMPROVEMENTS PRIOR TO THE ESTABLISHMENT OF SUCH PERMANENT STABILIZATION, A SPECIFIC BOND IN THE AMOUNT OF A SPECIFIC PROPOSAL FOR THE COST OF MAINTAINING THE TEMPORARY CONTROL MEASURES INCLUDING TEMPORARY GRASSING AND ESTABLISHING THE PERMANENT STABILIZATION WITHIN A REASONABLE TIME RELATIVE TO THE GROWING SEASON MAY BE REQUIRED BY THE LOCAL ISSUING AUTHORITY WITH THE DEEDS AND REQUEST FOR ACCEPTANCE.

17. POLLUTION CONTROLS:
POLLUTION CONTROL MEASURES FOR THE SITE INCLUDE PROPER WASTE DISPOSAL, PROPER MANAGEMENT OF CHEMICAL STORAGE TANKS, EROSION FROM EGRESSES, SANITARY SEWAGE DISPOSAL AND ON-SITE VEHICLE STORAGE AND MAINTENANCE. NO DEBRIS THAT IS GENERATED WILL BE BURIED ON SITE.

(1) WASTE DISPOSAL:
SOLID MATERIALS, INCLUDING BUILDING MATERIALS, SHALL BE PROPERLY DISPOSED OF OR REMOVED FROM THE SITE TO AN APPROPRIATE LANDFILL, AND SHALL NOT BE DISCHARGED INTO WATERS OF THE STATE, EXCEPT AS AUTHORIZED BY A SECTION 404 PERMIT. CLEANUP AND DISPOSAL OF ALL WASTE MATERIALS (SOLID OR HAZARDOUS) SHALL BE IN ACCORDANCE WITH ALL RECOGNIZED LOCAL AND FEDERAL REQUIREMENTS. ALL DISPOSAL SHALL BE TO APPROVED OFF-SITE WASTE FACILITIES.

ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES WILL BE POSTED IN THE APPROPRIATE ONSITE OR OFFSITE LOCATION. THE INDIVIDUAL WHO MANAGES THE DAY-TO-DAY SITE OPERATIONS WILL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.

(2) OFFSITE VEHICLE TRACKING:
OFF-SITE VEHICLE TRACKING OF DIRT, SOILS, AND SEDIMENTS AND THE GENERATION OF DUST SHALL BE MINIMIZED OR ELIMINATED TO THE MAXIMUM EXTENT PRACTICAL. A STABILIZED CONSTRUCTION ENTRANCE HAS BEEN PROVIDED TO HELP REDUCE VEHICLE TRACKING OF SEDIMENTS. THE PAVED STREET ADJACENT TO THE SITE ENTRANCE WILL BE CLEANED AS NECESSARY TO REMOVE ANY EXCESS MUD, DIRT, OR ROCK TRACKED FROM THE SITE. DUMP TRUCKS HAULING MATERIAL FROM THE CONSTRUCTION SITE WILL BE COVERED WITH A TARPAULIN ON AN AS NEEDED BASIS.

(3) SANITARY WASTE:
AS SITE CONDITIONS WARRANT, ALL SANITARY WASTE WILL BE MANAGED APPROPRIATELY BY EITHER AN ONSITE PORTABLE UNIT(S) COLLECTED AT A MINIMUM OF ONCE PER WEEK BY THE LOCAL MUNICIPALITY AND/OR STATE OF GEORGIA LICENSED SANITARY WASTE MANAGEMENT CONTRACTOR, OR WITH A MANAGEMENT PLAN THAT ROUTES INDIVIDUALS TO A LEGAL AND APPROPRIATE SANITARY WASTE FACILITY.

(4) SPILL REMEDIATION MANAGEMENT PRACTICES:
THE FOLLOWING ARE THE BEST MANAGEMENT PRACTICES THAT WILL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES, AS WELL AS A CLEAN-UP PLAN IF NECESSARY.

RISK REDUCTION: PETROLEUM, FERTILIZERS AND PAINT PRODUCTS
- AN EFFORT WILL BE MADE TO STORE ONLY ENOUGH PRODUCT REQUIRED TO DO THE JOB.
- PRODUCTS WILL BE STORED IN THEIR ORIGINAL CONTAINERS WITH THE ORIGINAL MANUFACTURER'S LABEL, AND MUST BE KEPT OFF THE GROUND IN SECURELY FASTENED LIDS.
- SUBSTANCES WILL NOT BE MIXED WITH ONE ANOTHER UNLESS RECOMMENDED BY THE MANUFACTURER.
- WHENEVER PRACTICAL, ALL OF A PRODUCT WILL BE USED BEFORE DISPOSING OF THE CONTAINER.
- MANUFACTURER'S RECOMMENDATIONS FOR PROPER USE AND DISPOSAL WILL BE FOLLOWED.
- THE SITE SUPERINTENDENT WILL INSPECT DAILY TO ENSURE PROPER USE AND DISPOSAL OF MATERIALS.
- ORIGINAL LABELS AND MATERIAL SAFETY DATA SHEETS (MSDS) WILL BE RETAINED.
- IF SURPLUS PRODUCT MUST BE DISPOSED OF, MANUFACTURERS OR LOCAL AND STATE RECOMMENDED METHODS FOR PROPER DISPOSAL WILL BE FOLLOWED.
- ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTIVE MAINTENANCE TO REDUCE THE CHANCE OF LEAKAGE.
- ALL PRODUCTS SHALL BE STORED AND USED IN AN AREA THAT PROVIDES A SECONDARY CONTAINMENT FEATURE, AND SHALL BE LOCATED IN AN AREA WITH THE LEAST FORESEEABLE IMPACT IF A CATASTROPHIC EVENT SHOULD OCCUR. FACILITIES SHOULD BE COVERED AND ACCESS RESTRICTED TO EMPLOYEES ONLY.
- FERTILIZERS USED WILL BE APPLIED ONLY IN MINIMUM AMOUNTS AS RECOMMENDED BY THE MANUFACTURER. ONCE APPLIED, FERTILIZER WILL BE WORKED INTO THE SOIL TO LIMIT EXPOSURE TO STORM WATER. THE CONTENTS OF ANY PARTIALLY USED BAGS OF FERTILIZER WILL BE TRANSFERRED TO A SEALABLE PLASTIC BIN TO AVOID SPILLS.
- KEEP FLAMMABLE LIQUIDS IN CLOSED CONTAINERS WHEN NOT IN USE.
- USE PROPER RECEPTACLES TO DISPOSE OF CONTAMINATED WASTES THAT CANNOT BE RECYCLED IN CONFORMANCE WITH FEDERAL, STATE AND/OR LOCAL REGULATIONS.
- DO NOT DUMP PETROLEUM PRODUCT WASTE, PESTICIDES, FERTILIZERS, PAINTS OR OTHER CHEMICALS INTO SEWERS, STORMDRAINS OR DRAINAGE CHANNELS.
- PREVENT SPILLS OF PETROLEUM PRODUCTS FROM OCCURRING BY TAKING SPECIAL CARE WHEN HANDLING, AND KEEP FACILITIES AND EQUIPMENT MAINTAINED.
- USE SPILL PROOF CONTAINERS AND FUNNELS WHEN TRANSFERRING FLUIDS FROM ONE CONTAINER TO ANOTHER.
- POST INFORMATIONAL MATERIALS REGARDING CHEMICAL CONTROL.

SPILL CONTROL PLAN: THE FOLLOWING PRACTICES WILL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP:
- EMERGENCY CONTACT NUMBERS FOR SPILLS SHALL BE AVAILABLE ON-SITE.
- MANUFACTURERS' RECOMMENDED METHODS FOR SPILL CLEANUP WILL BE ON SITE.
- MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE AVAILABLE ON-SITE.
- ALL SPILLS WILL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY.
- KEEP TRAINED STAFF IN SPILL RESPONSE ON CALL.
- THE SPILL AREA WILL BE KEPT WELL VENTILATED AND PERSONNEL WILL WEAR APPROPRIATE PROTECTIVE CLOTHING TO PREVENT INJURY FROM CONTACT WITH A HAZARDOUS SUBSTANCE.
- SPILLS OF TOXIC OR HAZARDOUS MATERIAL WILL BE REPORTED TO THE APPROPRIATE LOCAL OR FEDERAL GOVERNMENT AGENCY, REGARDLESS OF THE SIZE.
- THE SPILL PREVENTION PLAN WILL BE ADJUSTED TO INCLUDE MEASURES TO PREVENT THIS TYPE OF SPILL FROM REOCCURRING AND HOW TO CLEAN UP THE SPILL IF THERE IS ANOTHER ONE. A DESCRIPTION OF THE SPILL, WHAT CAUSED IT, AND THE CLEANUP MEASURES WILL ALSO BE INCLUDED.

Ds1 DISTURBED AREA STABILIZATION (WITH MULCHING ONLY)

MATERIALS AND RATES:

MATERIAL	RATE
STRAW OR HAY	2-4" DEEP
WOOD WASTE, CHIPS, SAW DUST OR BARK	2-3" DEEP/ABOUT 6-9 TONS/ACRE
MATTING OR NETTING	ACCORDING TO MANUFACTURERS RECOMMENDATIONS
CUTBACK ASPHALT	1200 GALLONS/ACRE (1/4 GAL./SQ YD)
POLYETHYLENE FILM	COMPLETELY COVER ACRE

GENERAL NOTES:
1. USE PIEDMONT PLANTING DATES
2. FROM 6/15 TO 9/1 USE SEEDING RATES FOR TEMPORARY SEEDING AND SEED PERMANENTLY IN THE FALL.
3. AFTER SEEDING, MULCH SHALL BE APPLIED AT A RATE OF 2 1/2 TONS/ACRE

Ds2 DISTURBED AREA STABILIZATION (WITH TEMPORARY SEEDINGS)

SEEDING RATES FOR TEMPORARY SEEDINGS

SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE [2]	PLANTING DATES Mts.-L'stone	Piedmont	Coastal
RYE (IN MIXTURES)	3.9 POUNDS (0.6 POUNDS)	3 bu. (1/2 bu.)	7/15-12/1	8/15-1/1	9/1-3/1
ANNUAL RYEGRASS	0.9 POUND	40 lbs.	8/1-5/1	8/1-4/15	8/15-4/1
ANNUAL LESPEDEZA (IN MIXTURES)	0.9 POUNDS (0.2 POUNDS)	40 lbs. (10 lbs.	2/1-5/1	2/15-5/1	1/15-3/15
WEEPING LOVEGRASS (IN MIXTURES)	0.1 POUNDS (0.05 POUNDS)	4 lbs. (2 lbs.	3/15-6/15	3/15-6/15	2/15-6/15
SUDANGRASS	1.4 POUND	60 lbs.	4/1-9/1	4/1-9/1	3/1-8/1
BROWNTOP MILLET (IN MIXTURES)	0.9 POUNDS (0.2 POUNDS)	40 lbs. (10 lbs.	4/1-7/1	4/1-7/15	4/1-7/15
WHEAT (IN MIXTURES)	4.1 POUNDS (0.7 POUNDS)	3 bu. (1/2 bu.	9/1-1/1	9/1-1/1	9/15-2/1

[1] TEMPORARY COVER CROPS ARE VERY COMPETITIVE AND WILL CROWN OUT PERENNIALS IF SEEDED TOO HEAVILY.
[2] REDUCE SEEDING RATES BY 50% WHEN DRILLED.

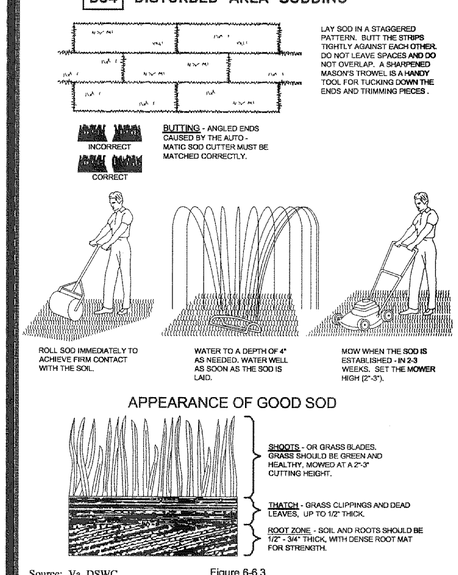
Ds3 DISTURBED AREA STABILIZATION (WITH PERMANENT VEGETATION)

NOTE: AGRICULTURAL LIME IS REQUIRED FOR ALL GRADED AREAS AT THE RATE OF ONE TO TWO TONS PER ACRE UNLESS SOIL TESTS DETERMINE OTHERWISE.

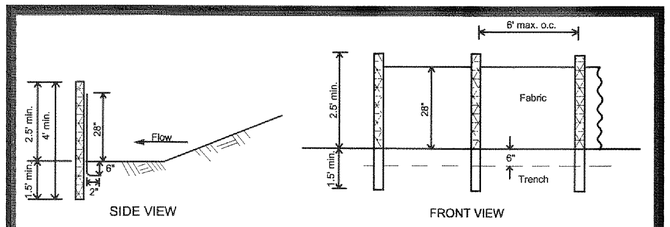
SPECIES	RATE PER 1,000 SQ FT	RATE PER ACRE [1]	PLANTING DATES Mts.-L'stone	Piedmont	Coastal	YEARS TO APPLY FERTILIZER	FERTILIZER ANALYSES N	P	K	RATE *	N TOP-DRESSING RATE *
WEEPING LOVEGRASS AND VIRGATA OR SERICEA LESPEDEZA	0.1 lbs. / 1.4 lbs.	4 lbs. / 40 lbs.	3/15-6/15 / 3/15-6/15	3/1-6/15 / 3/1-6/15	2/1-6/15 / 2/15-6/1	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
SERICEA LESPEDEZA SEEDBEARING HAY WITH OVERSEEDED WEEPING LOVEGRASS	138 lbs. / 0.05 lbs.	3 tons / 2 lbs.	10/1-3/1 / 3/15-6/15	10/1-3/1 / 3/1-6/15	10/15-2/1 / 2/1-6/15	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS AND SERICEA LESPEDEZA	0.2 lbs. / 1.4 lbs.	10 lbs. / 60 lbs.	3/1-7/1 / 3/15-6/15	2/15-7/1 / 3/1-6/15	2/15-6/15	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
UNHULLED COMMON BERMUDAGRASS AND VIRGATA OR SERICEA LESPEDEZA SEED HAY	0.2 lbs. / 1.4 lbs. / 140 lbs.	10 lbs. / 40 lbs. / 3 tons	10/1-3/1 / 3/15-6/15 / 10/1-3/1	11/1-2/1 / 3/1-6/15 / 10/1-3/1	2/15-6/1 / 10/15-2/1	FIRST	6	12	12	1500	50
						SECOND	0	10	10	1000	-
TALL FESCUEGRASS AND CLEAN COMBINE RUN VIRGATA OR SERICEA LESPEDEZA	1.1 lbs. / 1.4 lbs.	50 lbs. / 40 lbs.	8/1-11/1, 3/1-6/15 / 3/15-6/15	8/15-11/1 / 3/1-6/15	2/15-6/1	FIRST	6	12	12	1500	0-50 IN SPRING
						SECOND	0	10	10	1000	-
HULLED COMMON BERMUDAGRASS	0.2 lbs.	10 lbs.	3/1-7/1	2/15-7/1		FIRST	6	12	12	1500	50-100
						SECOND	10	10	10	800	50-100

1. REDUCE SEEDING RATES BY 50% WHEN DRILLED.
* FERTILIZER/N TOP-DRESSING RATES INDICATED ARE IN LBS/ACRE.

Ds4 DISTURBED AREA SODDING



Source: Va. DSWC Figure 6-6.3



NOTE:
Use 36" D.O.T. approved fabric.
Use wood or steel posts

Sd1-A SILT FENCE - TYPE A
Figure 6-20.4

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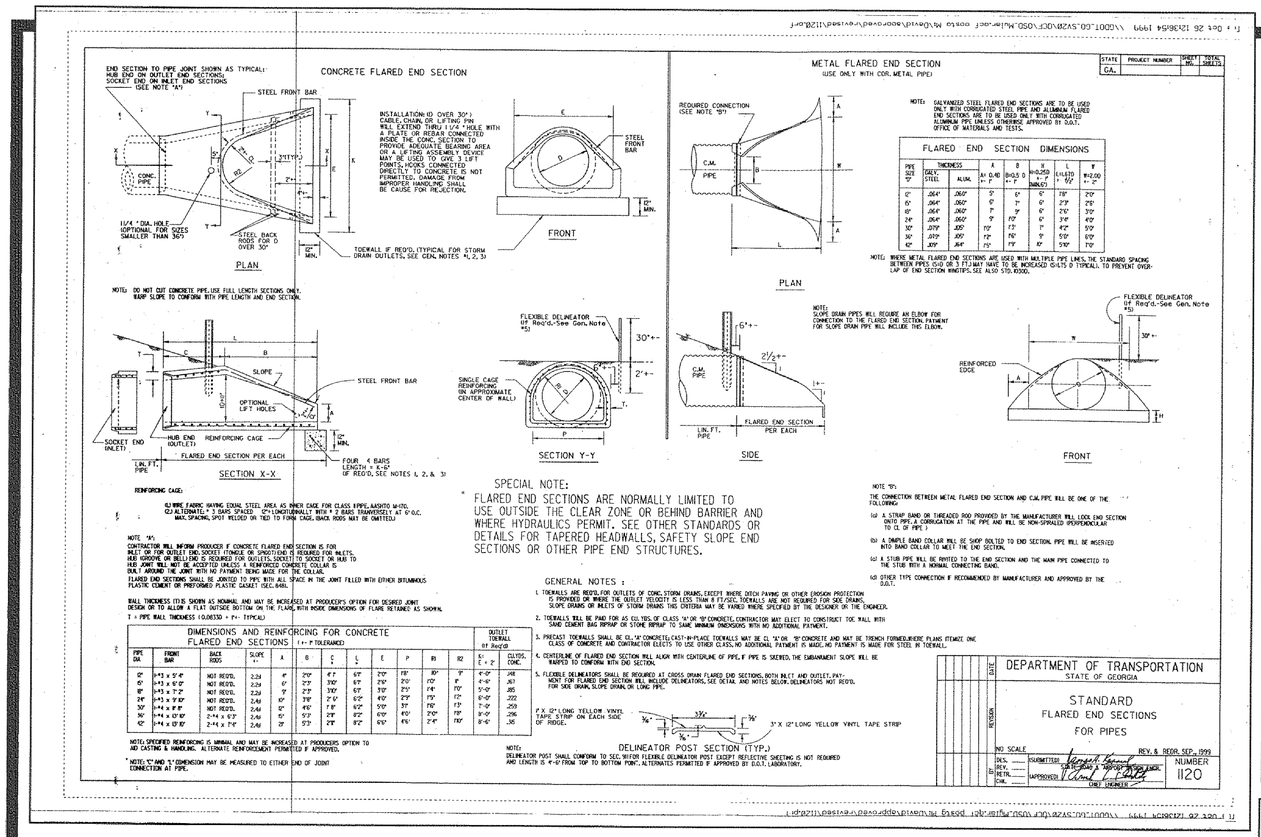

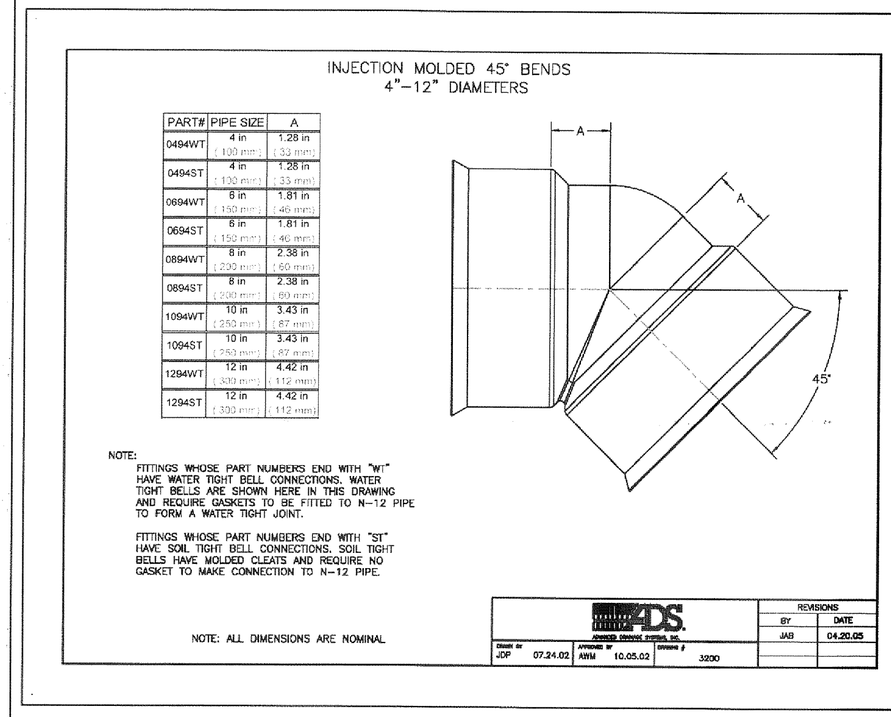

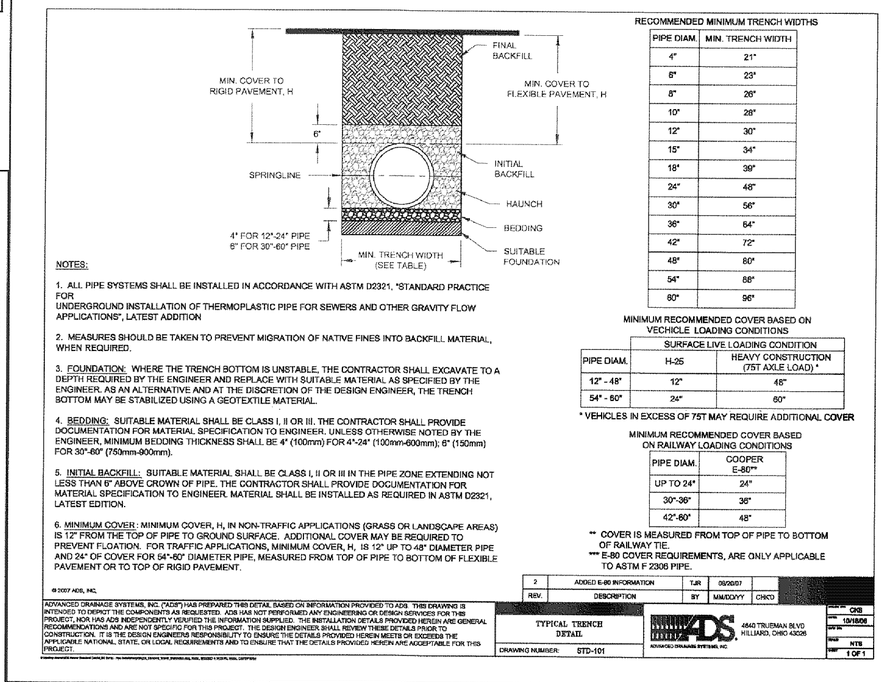

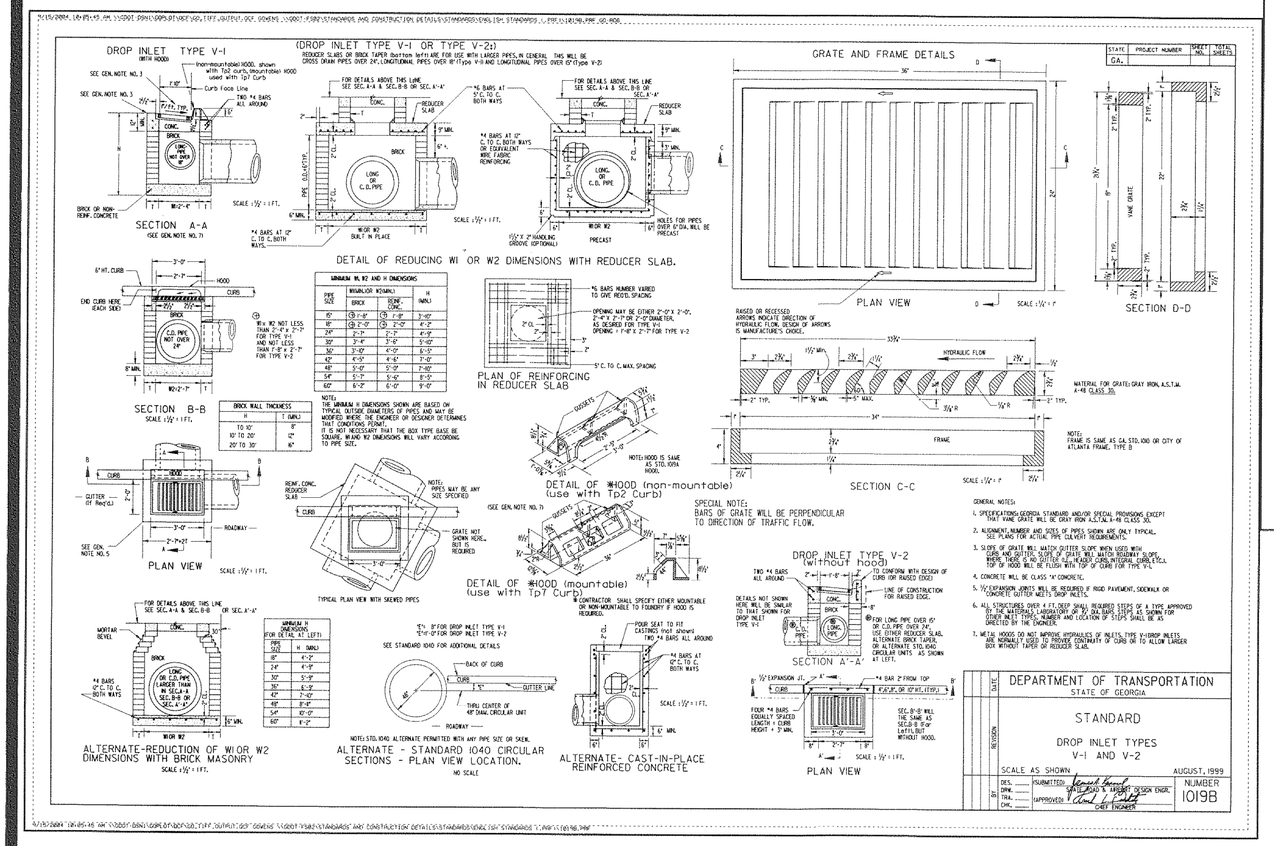

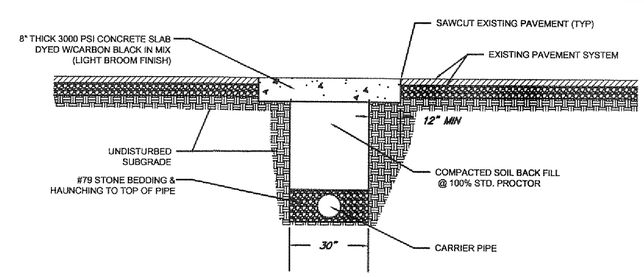

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