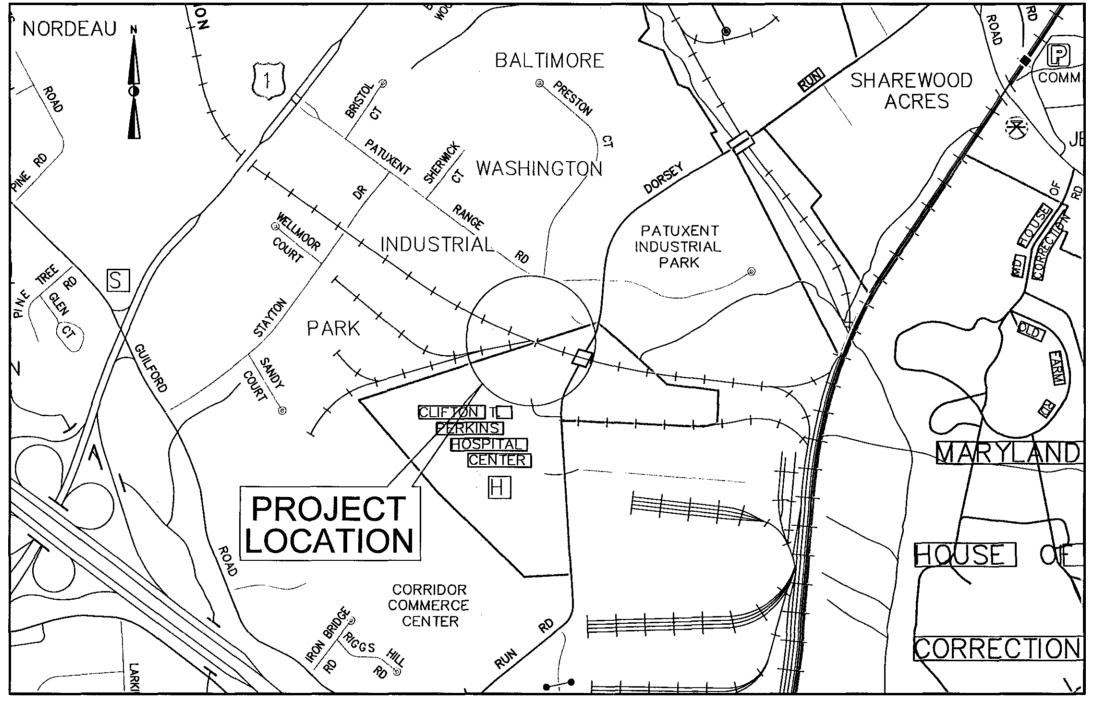
PIPEREPAIR

8255 PATUXENT RANGE ROAD ELECTION DISTRICT 1 HOWARD COUNTY, MARYLAND CAPITAL PROJECT D-1125

INDEX OF SHEETS

- TITLE SHEET
- PLAN, PIPE PROFILE AND DETAILS
- EROSION AND SEDIMENT CONTROL NOTES AND DETAILS



LOCATION MAP HOWARD COUNTY 1000 SCALE: 1" = 1000'

THESE PLANS FOR SOIL EROSION AND SEDIMENT CONTROL MEET THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

ENGINEER'S CERTIFICATE

"I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKABLE PLAN BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH THE REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

11-5-10

11/5/10

DATE

DATE

SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DAVIU T. MORICONI

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND THAT ANY RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDANCE AT A DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEFORE BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON—SITE INSPECTION BY THE HOWARD SOIL CONSERVATION DISTRICT."

SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE)

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

CHIEF, DIVISION OF TRANSPORTATION

AND SPECIAL PROJECTS





PROFESSIONAL CERTIFICATION

AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE

LICENSE NO. <u>16156</u> EXPIRATION DATE: <u>8/28/2012</u>

LAWS OF THE STATE OF MARYLAND,

"I HEREBY CERTIFY THAT DOCUMENTS

WERE PREPARED OR APPROVED BY ME,

S. C.	DES:	DIM		as-bolu		413
	DRN: BJK				<u>.</u>	
	CHK: DTM					
	DATE: 10/2010	BY	NO.	REVISION		DATE

TITLE SHEET

_ BLOCK NO. .

SCALE MAP NO.

BALTIMORE-WASHINGTON INDUSTRIAL PARK", F-86-25; AND SHEET 2 OF 12 OF SDP#86-161. ALL ELEVATIONS ARE APPROXIMATE. 2. CONTRACTOR MUST PROTECT THE EXISTING RAILROAD SIDING AT ALL TIMES. DAMAGE TO THE RAILROAD SIDING MUST BE REPLACED AT THE CONTRACTORS EXPENSE.

THE PLAN AND PROFILE WAS DEVELOPED WITHOUT THE BENEFIT OF A FIELD RUN TOPOGRAPHIC SURVEY. INFORMATION TO PREPARE THIS PLAN

WAS OBTAINED FROM SHEET 2 OF 2 "STORM DRAIN PROFILE FOR

3. HOWARD COUNTY WILL COORDINATE THE APPROVALS OF ANY PARKING AREAS THAT WILL BE USED FOR STAGING AND STORAGE. THE CONTRACTOR SHALL MINIMIZED DISTURBANCE TO EXISTING PAVEMENT AND CURBS. REPAIR ANY PAVEMENT AND CURBING DAMAGED AS PART OF THIS TASK.

4. PROPOSED MANHOLE ACCESS NO.1 SHALL BE MANUFACTURED INTEGRAL TO THE 84-INCH CMP. THE RISER PIPE SHALL BE 36" DIAMETER WITH A 36" FRAME AND COVER SET IN A 6'X6' CONCRETE SLAB, 4" THICK AT THE SURFACE. THE RISER SHALL INCLUDE LADDER RUNGS.

5. PROPOSED MANHOLE ACCESS NO.2 SHALL BE 48" DIAMETER, PRECAST CONCRETE WITH A 24" DIAMETER FRAME AND COVER 6" BASE FINISH GRADE. SEE HOWARD CO. STANDARD G-5.12 FOR ADDITIONAL INFORMATION.

6. THE CONTRACTOR SHALL NOTIFY THE HOWARD COUNTY DEPARTMENT OF PUBLIC WORKS/BUREAU OF ENGINEERING CONSTRUCTION INSPECTION DIVISION AT 410-313-1880 AND MISS UTILITY AT 1-800-257-7777 AT LEAST FIVE (5) WORKING DAYS BEFORE STARTING WORK

7. THE SYSTEM OF COORDINATES USED BY HOWARD COUNTY IS BASED IN THE FOLLOWING DATUMS AND PROJECTIONS:

HORIZONTAL: MARYLAND NAD83 (ADJ 1991) VERTICAL: NAVD88

HOWARD COUNTY CONTROL:

STATION NO. STATION NO.

8. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF HOWARD COUNTY.

9. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PROVISIONS OF THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL." ISSUED BY THE MARYLAND DEPARTMENT OF THE ENVIRONMENT AND THE NATURAL RESOURCES CONSERVATION SERVICE.

10. THE PROPERTY LINES AND EASEMENT LINES ARE BASED ON LAND ACQUISITION DOCUMENTS RESEARCHED AND PLACED ON THE PLANS.

11. SHOULD THE CONTRACTOR DISCOVER DISCREPANCIES BETWEEN THE PLANS AND THE FIELD CONDITIONS, THE ENGINEER IS TO BE NOTIFIED IMMEDIATELY TO RESOLVE THE SITUATION. SHOULD THE CONTRACTOR MAKE FIELD CORRECTIONS OR ADJUSTMENTS WITHOUT NOTIFYING THE ENGINEER, THEN THE CONTRACTOR ASSUMES ALL RESPONSIBILITY FOR THOSE CHANGES.

12. CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS, METHOD, TECHNIQUES, SEQUENCES, PROCEDURES, AND SAFETY PRECAUTIONS AND PROGRAMS.

13. APPROXIMATE UTILITIES ARE SHOWN FROM AVAILABLE RECORDS. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PROTECT THE EXISTING UTILITIES AND MAINTAIN UNINTERRUPTED SERVICE. ANY DAMAGE INCURRED DUE TO CONTRACTOR'S OPERATION SHALL BE REPAIRED IMMEDIATELY AT THE CONTRACTOR'S EXPENSE.

14. ALL PIPE ELEVATIONS SHOWN ARE INVERT ELEVATIONS.

15. UTILITY CONTACTS:

BGE: **VERIZON:** MCI: **XPEIUS: ABOVENET:**

COMCAST:

(410)-597-7835 (ELECTRIC) (410)-291-5101 (GAS)

(410)-224-9285(912) - 729 - 6016(703) - 386 - 2340

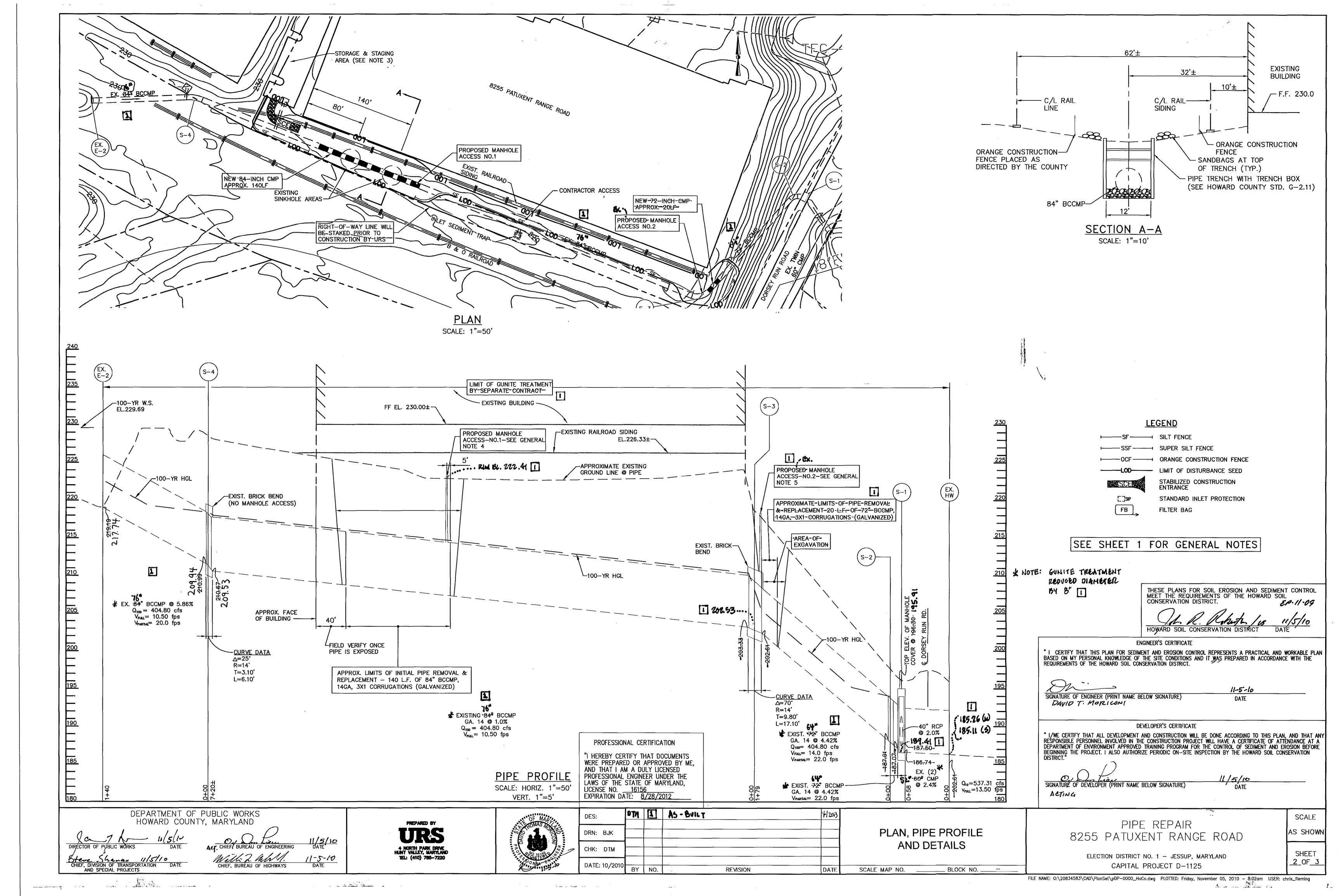
(443) - 250 - 1873(410)-513-3207

PIPE REPAIR 8255 PATUXENT RANGE ROAD

> ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT D-1125

AS SHOWN SHEET 1 OF 3

FILE NAME: 0:\20834583\CAD\PlanSet\pGN-T000_HoCo.dwg PLOTTED: Friday, November 05, 2010 -7:59am USER: chris_fleming



PERMANENT SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS NOT SUBJECT TO IMMEDIATE FURTHER DISTURBANCE WHERE A PERMANENT LONG-LIVED VEGETATIVE COVER IS

EDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING. IF NOT PREVIOUSLY LOOSENED.

SOIL AMENDMENTS: IN LIEU OF SOIL TEST RECOMMENDATIONS, USE ONE OF THE FOLLOWING SCHEDULES:

- 1. PREFERRED APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS PER 1,000 SQUARE FEET) AND 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER 1,000 SQUARE FEET) BEFORE SEEDING. HARROW OR DISC INTO UPPER 3 INCHES OF SOIL. AT TIME OF SEEDING, APPLY 400 LBS. PER ACRE 30-0-0 UREAFORM FERTILIZER (9 LBS. PER 1,000 SQUARE FEET)
- 2. ACCEPTABLE APPLY 2 TONS PER ACRE DOLOMITIC LIMESTONE (92 LBS. PER 1,000 SQUARE FEET) AND 1,000 LBS. PER ACRE 10-10-10 FERTILIZER (23 LBS. PER 1,000 SQUARE FEÉT) BEFORE SEEDING. HARROW OR DISC INTO UPPER 3 INCHES OF SOIL.

SEEDING: FOR THE PERIOD MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 1 THROUGH OCTOBER 15, SEED WITH 60 LBS. PER ACRE (1.4 LBS. PER 1,000 SQUARE FEET) OF KENTUCKY 31 TALL FESCUE. FOR THE PERIOD MAY 1 THROUGH JULY 31, SEED WITH 60 LBS. KENTUCKY 31 TALL FESCUE PER ACRE AND 2 LBS. PER ACRE (0.05 LBS. PER 1,000 SQUARE FEET) OF WEEPING LOVEGRASS. DURING THE PERIOD OCTOBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY ONE OF THE FOLLOWING OPTIONS:

- 1. 2 TONS PER ACRE OF WELL-ANCHORED MULCH STRAW AND SEED AS SOON AS POSSIBLE IN THE SPRING.
- 2. USE SOD.
- 3. SEED WITH 60 LBS. PER ACRE KENTUCKY 31 TALL FESCUE AND MULCH WITH 2 TONS PER ACRE WELL ANCHORED STRAW.

CHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1.000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER 1,000 SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING.

MAINTENANCE: INSPECT ALL SEEDED AREAS AND MAKE NEEDED REPAIRS, REPLACEMENTS, AND RESEEDINGS.

TEMPORARY SEEDING NOTES

APPLY TO GRADED OR CLEARED AREAS LIKELY TO BE REDISTRIBUTED WHERE A SHORT-TERM VEGETATIVE COVER IS NEEDED.

SEEDBED PREPARATION: LOOSEN UPPER 3 INCHES OF SOIL BY RAKING, DISCING, OR OTHER ACCEPTABLE MEANS BEFORE SEEDING.

AMENDMENTS: APPLY 600 LBS. PER ACRE 10-10-10 FERTILIZER (14 LBS. PER

FOR PERIODS MARCH 1 THROUGH APRIL 30 AND FROM AUGUST 15 THROUGH NOVEMBER 15, SEED WITH 2 1/2 BUSHELS PER ACRE OF ANNUAL RYE (3.2 LBS. PER 1,000 SQUARE FEET). FOR THE PERIOD MAY 1 THROUGH AUGUST 14, SEED WITH 3 LBS. PER ACRE OF WEEPING LOVEGRASS (0.07 LBS. PER 1,000 SQUARE FEET). FOR THE PERIOD NOVEMBER 16 THROUGH FEBRUARY 28, PROTECT SITE BY APPLYING 2 TONS PER ACRE OF WELL ANCHORED STRAW MULCH AND SEED AS SOON AS POSSIBLE IN THE SPRING OR USE SOD.

MULCHING: APPLY 1 1/2 TO 2 TONS PER ACRE (70 TO 90 LBS. PER 1,000 SQUARE FEET) OF UNROTTED SMALL GRAIN STRAW IMMEDIATELY AFTER SEEDING. ANCHOR MULCH IMMEDIATELY AFTER APPLICATION USING MULCH ANCHORING TOOL OR 218 GALLONS PER ACRE (5 GALLONS PER 1,000 SQUARE FEET) OF EMULSIFIED ASPHALT ON FLAT AREAS. ON SLOPES, 8 FEET OR HIGHER, USE 347 GALLONS PER ACRE (8 GALLONS PER 1,000 SQUARE FEET) FOR ANCHORING. REFER TO THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR RATE AND METHODS NOT COVERED

REFER TO THE "1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL" FOR ADDITIONAL RATES AND METHODS NOT COVERD.

SEDIMENT CONTROL NOTES

- 1. A MINIMUM OF 48 HOURS NOTICE MUST BE GIVEN TO THE HOWARD COUNTY DEPARTMENT OF INSPECTIONS, LICENSES AND PERMITS, SEDIMENT CONTROL DIVISION PRIOR TO THE START OF ANY CONSTRUCTION (410-313-1855).
- ALL VEGETATIVE AND STRUCTURAL PRACTICES ARE TO BE INSTALLED ACCORDING TO THE PROVISIONS OF THIS PLAN AND ARE TO BE IN CONFORMANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL AND REVISIONS THERETO.
- 3. FOLLOWING INITIAL SOIL DISTURBANCE OR REDISTURBANCE, PERMANENT OR TEMPORARY STABILIZATION SHALL BE COMPLETED WITHIN:
 - A. 7 CALENDAR DAYS FOR ALL PERIMETER SEDIMENT CONTROL STRUCTURES, DIKES, PERIMETER SLOPES, AND ALL SLOPES STEEPER
 - B. 14 DAYS AS TO ALL OTHER DISTURBED OR GRADED AREAS ON THE PROJECT SITE.
- ALL SEDIMENT TRAPS/BASINS SHOWN MUST BE FENCED AND WARNING SIGNS POSTED AROUND THE PERIMETER IN ACCORDANCE WITH VOLUME 1. CHAPTER 7, OF THE HOWARD COUNTY DESIGN MANUAL, STORM DRAINAGE.
- 5. ALL DISTURBED AREAS MUST BE STABILIZED WITHIN THE TIME PERIOD SPECIFIED ABOVE IN ACCORDANCE WITH THE 1994 MARYLAND STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL FOR PERMANENT SEEDING, SOD, TEMPORARY SEEDING, AND MULCHING (SECTION G).

TEMPORARY STABILIZATION WITH MULCH ALONE SHALL ONLY BE DONE WHEN RECOMMENDED SEEDING DATES DO NOT ALLOW FOR PROPER GERMINATION AND ESTABLISHMENT OF GRASSES.

- 6. ALL SEDIMENT CONTROL STRUCTURES ARE TO REMAIN IN PLACE AND ARE TO BE MAINTAINED IN OPERATIVE CONDITION UNTIL PERMISSION FOR THERE REMOVAL HAS BEEN OBTAINED FROM THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 7. SITE ANALYSIS:

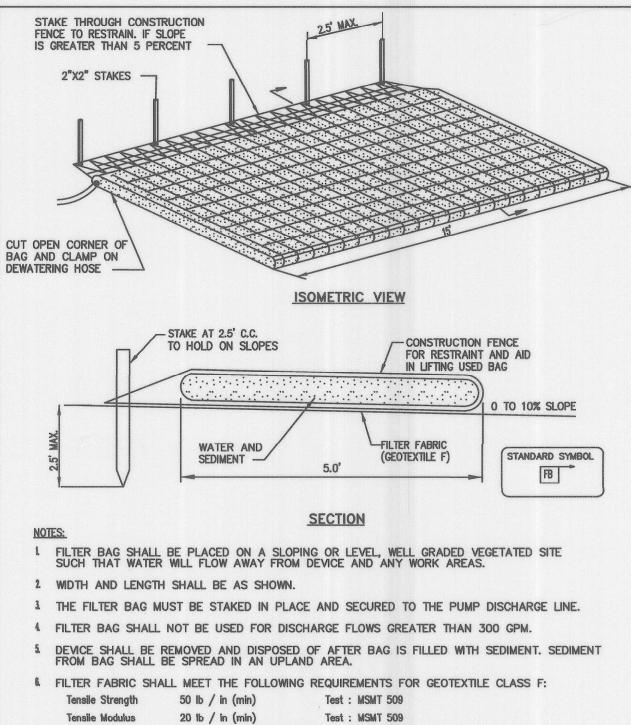
TOTAL AREA OF SITE - 0.50 ARCES AREA DISTURBED - 0.50 ACRES AREAS TO BE ROOFED OR PAVED - 0.00 ACRES AREA TO BE VEGETATIVELY STABILIZED - 0.50 ACRES TOTAL CUT - 1800 CY TOTAL FILL - 1200 CY OFF-SITE WASTE SITE - HOWARD COUNTY LANDFILL OFF-SITE BORROW SITE - APPROVED SITE WITH AN ACTIVE GRADING PERMIT

- 8. ANY SEDIMENT CONTROL PRACTICE WHICH IS DISTURBED BY GRADING ACTIVITY FOR PLACEMENT OF UTILITIES MUST BE REPAIRED ON THE SAME DAY OF DISTURBANCE
- 9. ADDITIONAL SEDIMENT CONTROLS MUST BE PROVIDED. IF DEEMED NECESSARY BY THE HOWARD COUNTY SEDIMENT CONTROL INSPECTOR.
- 10. ON ALL SITES WITH DISTURBED AREAS IN EXCESS OF 2 ACRES, APPROVAL OF THE INSPECTION AGENCY SHALL BE REQUESTED UPON COMPLETION OF INSTALLATION OF PERIMETER EROSION AND SEDIMENT CONTROLS, BUT BEFORE PROCEEDING WITH ANY OTHER EARTH DISTURBANCE OR GRADING. OTHER BUILDING OR GRADING INSPECTION APPROVALS MAY NOT BE AUTHORIZED UNTIL THIS INITIAL APPROVAL BY THE INSPECTION AGENCY IS MADE.
- TRENCHES FOR THE CONSTRUCTION OF UTILITIES IS LIMITED TO THREE PIPE LENGTHS OR THAT WHICH SHALL BE BACKFILLED AND STABILIZED WITHIN ONE WORKING DAY. WHICHEVER IS SHORTER.
- 12. SITE GRADING WILL BEGIN ONLY AFTER ALL PERIMETER SEDIMENT CONTROL MEASURES HAVE BEEN INSTALLED AND ARE IN A FUNCTIONING CONDITION.
- 13. SEDIMENT WILL BE REMOVED FROM TRAPS WHEN ITS DEPTH REACHES CLEAN OUT ELEVATION SHOWN ON THE PLANS.
- 14. CUT AND FILL QUANTITIES PROVIDED UNDER SITE ANALYSIS DO NOT REPRESENT BID QUANTITIES. THESE QUANTITIES DO NOT DISTINGUISH BETWEEN TOPSOIL. STRUCTURAL FILL OR EMBANKMENT MATERIAL, NOR DO THEY REFLECT CONSIDERATION OF UNDERCUTTING OR REMOVAL OF UNSUITABLE MATERIAL. THE CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH SITE CONDITIONS WHICH MAY AFFECT THE WORK.
- 15. CONSTRUCTION WITHIN, ALONG OR ACROSS STREAM CHANNELS SHALL, AS A MINIMUM, CONFIRM TO CRITERIA DESCRIBED UNDER "MARYLAND'S WATERWAY

DIVERSION PIPE -48" HDPE (TEMP.) -PERMANENT - OPEN PIPE TRENCH FLOW DISTURBED AREA FILTER -SANDBAGS PIPE TRENCH PLAN VIEW -SANDBAGS -48" HDPE (TEMP.) --- DISTURBED AREA SECTION VIEW A-A

SEQUENCE OF CONSTRUCTION

- 1. OBTAIN THE NECESSARY GRADING PERMITS PRIOR TO CONSTRUCTION (1 DAY).
- 2. NOTIFY HOWARD COUNTY AT 410-313-1855 AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION (1 DAY).
- 3. WITH THE APPROVAL OF THE INSPECTOR, INSTALL STABILIZED CONSTRUCTION ENTRANCES. SILT FENCES. SUPER SILT FENCES AND INLET PROTECTION. THIS WILL INCLUDE THE REMOVAL OF VEGETATION WITHIN THE LIMITS OF DISTURBANCE BY MOWING AND MINOR CLEARING AND GRUBBING OF SMALL WOODY VEGETATION. (2 DAYS)
- 4. INSTALL MEASURES TO PROTECT THE RAILROAD SIDING AS DIRECTED BY THE COUNTY. THE RAILROAD SIDING SHALL BE PROTECTED TO THE MAXIMUM EXTENT PRACTICAL. (2 DAYS)
- 5. EXCAVATION PIPE TRENCH BEGINNING WITH DOWNSTREAM END OF 84-INCH CMP TO BE REMOVED. INSTALL TRENCH SUPPORT SYSTEM. EXCAVATE FOR PROPER BEDDING, AND INSTALL NEW PIPE. CONNECT PER MANUFACTURER SPECIFICATIONS AND AS DIRECTED BY THE COUNTY. THE PROPOSED MANHOLE ACCESS NO. 1 SHALL BE A MINIMUM OF 36-INCHES IN DIAMETER WITH A GAGE AND CORRUGATION COMPATIBLE WITH THE 84-INCH PIPE. DURING NON-WORKING PERIODS, PLACE A 48-INCH HDPE IN THE PIPE TRENCH, BETWEEN THE 84-INCH PIPES AND SECURE WITH SANDBAGS AT THE ENDS. SEE DETAIL. (8 DAYS)
- 6. BACKFILL TRENCH USING PROPER COMPACTION TECHNIQUES AS OUTLINED IN THE SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. STABILIZE THE SURFACE WITH 4-INCHES OF SALVAGED TOPSOIL, SEED AND MULCH. (1 DAY)
- 7. EXCAVATION PIPE TRENCH BEGINNING WITH DOWNSTREAM END OF 72-INCH CMP TO BE REMOVED. INSTALL TRENCH SUPPORT SYSTEM. EXCAVATE FOR PROPER BEDDING, AND INSTALL NEW PIPE. CONNECT PER MANUFACTURER SPECIFICATIONS AND AS DIRECTED BY THE COUNTY. THE PROPOSED MANHOLE ACCESS NO. 2 SHALL BE A MINIMUM OF 48-INCHES AT THE BASE AND 36-INCH MINIMUM AT THE FRAME AND COVER. MANHOLE ACCESS NO. 2 SHALL BE PRECAST CONCRETE (4 DAYS)
- 8. BACKFILL TRENCH USING PROPER COMPACTION TECHNIQUES AS OUTLINED IN THE SHA STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS. STABILIZE THE SURFACE WITH 4-INCHES OF SALVAGED TOPSOIL, SEED AND MULCH. (1 DAY)
- PREPARE PIPE FOR GUNITE AND INVERT GROUT TREATMENT. PLACE GUNITE IN PIPE BEGINNING AT THE UPSTREAM END OF THE PIPE AND PROGRESS DOWNSTREAM. WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE MANUFACTURERS SPECIFICATIONS. A MINIMUM OF 3-INCH OF GUNITE SHALL BE APPLIED TO THE INTERIOR OF THE PIPE CIRCUMFERENCE. WORK WILL ONLY BE PERFORMED ON DRY WEATHER DAYS
- 10. REMOVE ALL MATERIAL PROTECTING THE RAILROAD SIDING. STABILIZE WITH BALLAST STONE, TOPSOIL, SEED AND MULCH AS DIRECTED BY THE COUNTY. (2 DAYS)
- 11. WITH THE APPROVAL OF THE SEDIMENT CONTROL INSPECTOR, REMOVE ALL REMAINING SEDIMENT CONTROL DEVICES AND COMPLETE THE FINAL STABILIZATION. (2 DAYS)



Test: MSMT 322

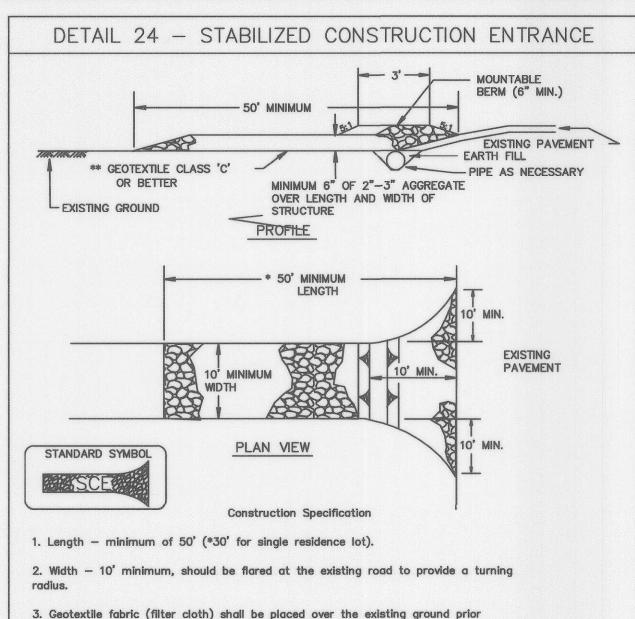
FILTER BAG

(TEMPORARY EROSION CONTROL MEASURE)

NOT TO SCALE

Test: MSMT 322

0.3 gal ft / minute (max.)



to placing stone. **The plan approval authority may not require single family residences to use geotextile.

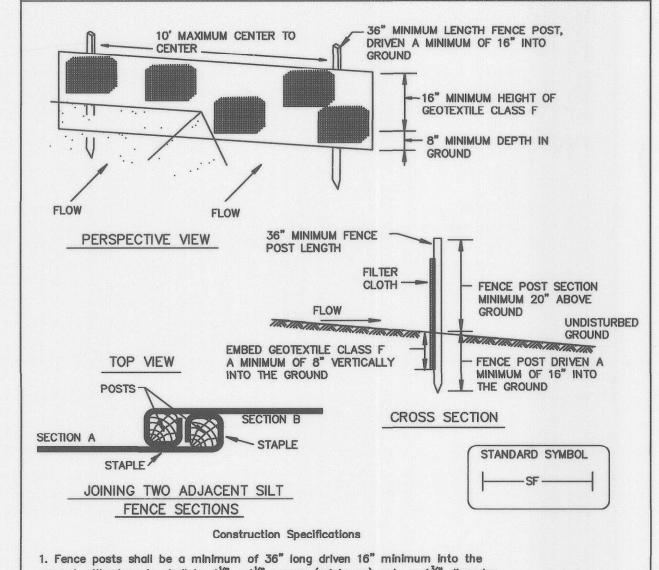
4. Stone - crushed aggregate (2" to 3") or reclaimed or recycled concrete equivalent shall be placed at least 6" deep over the length and width of the

5. Surface Water — all surface water flowing to or diverted toward construction entrances shall be piped through the entrance, maintaining positive drainage. Pipe installed through the stabilized construction entrance shall be protected with a mountable berm with 5:1 slopes and a minimum of 6" of stone over the pipe. Pipe has to be sized according to the drainage. When the SCE is located at a high spot and has no drainage to convey a pipe will not be necessary. Pipe should be sized according to the amount of runoff to be conveyed. A 6" minimum will be required.

6. Location - A stabilized construction entrance shall be located at every point where construction traffic enters or leaves a construction site. Vehicles leaving the site must travel over the entire length of the stabilized construction entrance.

U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMEN WATER MANAGEMENT ADMINISTRATION SOIL CONSERVATION SERVICE F - 17 - 3

DETAIL 22 - SILT FENCE



ground. Wood posts shall be 11/2" x 11/2" square (minimum) cut, or 11/4" diameter (minimum) round and shall be of sound quality hardwood. Steel posts will be standard T or U section weighting not less than 1.00 pond per linear foot.

2. Geotextile shall be fastened securely to each fence post with wire ties

or staples at top and mid-section and shall meet the following requirements

for Geotextile Class F: Test: MSMT 509 Tensile Strength 50 lbs/in (min.) Tensile Modulus 20 lbs/in (min.) Test: MSMT 509 0.3 gal ft / minuîte (max.) Test: MSMT 322 Flow Rate

Test: MSMT 322 Filtering Efficiency 75% (min.) 3. Where ends of geotextile fabric come together, they shall be overlapped, folded and stapled to prevent sediment bypass.

4. Silt Fence shall be inspected after each rainfall event and maintained when bulges occur or when sediment accumulation reached 50% of the fabric height.

SCALE MAP NO.

U.S. DEPARTMENT OF AGRICULTURE SOIL CONSERVATION SERVICE

E - 15 - 3

EROSION AND SEDIMENT

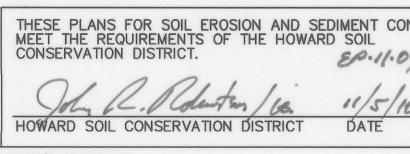
CONTROL NOTES AND DETAILS

_____ BLOCK NO. ____

MARYLAND DEPARTMENT OF ENVIRONMENT WATER MANAGEMENT ADMINISTRATION

NOTE: FENCE POST SPACING SHALL NOT EXCEED 10' 10' MAXIMUM CENTER TO CENTER 34" MINIMUM The Shadhadhad J GROUND / SURFACE 36" MINIMUM FLOW 2½" DIAMETER GALVANIZED CHAIN LINK FENCI OR ALUMINUM WITH 1 LAYER OF 8" MINIMUM **POSTS** FILTER CLOTH CHAIN LINK FENCING FLOW ___ FILTER CLOTH MINIMUM TANTANTAN -16" MIN. 1ST LAYER OF FILTER CLOTH EMBED FILTER CLOTH 8" MINIMUM INTO GROUND STANDARD SYMBOL * IF MULTIPLE LAYERS ARE REQUIRED TO ATTAIN 42" - SSF -Construction Specifications . Fencing shall be 42" in height and constructed in accordance with the latest Maryland State Highway Details for Chain Link Fencina. The specification for a 6' fence shall be used, substituting 42" fabric and 6' length 2. Chain link fence shall be fastened securely to the fence posts with wire ties. The lower tension wire, brace and truss rods, drive anchors and post caps are not required except on the ends of the fence. 3. Filter cloth shall be fastened securely to the chain link fence with ties spaced every 24" at the top and mid section. 4. Filter cloth shall be embedded a minimum of 8" into the ground. 5. When two sections of filter cloth adjoin each other, they shall be overlapped by 6" and folded. Maintenance shall be performed as needed and silt buildups removed when "bulges" develop in the silt fence, or when silt reaches 50% of fence height 7. Filter cloth shall be fastened securely to each fence post with wire ties or staples at top and mid section and shall meet the following requirements for Geotextile Class F: Tensile Strength 50 lbs/in (min.) Test: MSMT 509 Tensile Modulus 20 lbs/in (min.) Test: MSMT 509 0.3 gal/ft /minute (max.) Test: MSMT 322 Flow Rate Filtering Efficiency 75% (min.) Test: MSMT 322 U.S. DEPARTMENT OF AGRICULTURE MARYLAND DEPARTMENT OF ENVIRONMENT SOIL CONSERVATION SERVICE WATER MANAGEMENT ADMINISTRATION H - 26 - 3

DETAIL 33 - SUPER SILT FENCE



ENGINEER'S CERTIFICATE

I CERTIFY THAT THIS PLAN FOR SEDIMENT AND EROSION CONTROL REPRESENTS A PRACTICAL AND WORKA BASED ON MY PERSONAL KNOWLEDGE OF THE SITE CONDITIONS AND IT WAS PREPARED IN ACCORDANCE WITH REQUIREMENTS OF THE HOWARD SOIL CONSERVATION DISTRICT.

11-5-10 SIGNATURE OF ENGINEER (PRINT NAME BELOW SIGNATURE) DAVID T. MORICONI

DEVELOPER'S CERTIFICATE

I/WE CERTIFY THAT ALL DEVELOPMENT AND CONSTRUCTION WILL BE DONE ACCORDING TO THIS PLAN, AND RESPONSIBLE PERSONNEL INVOLVED IN THE CONSTRUCTION PROJECT WILL HAVE A CERTIFICATE OF ATTENDAN DEPARTMENT OF ENVIRONMENT APPROVED TRAINING PROGRAM FOR THE CONTROL OF SEDIMENT AND EROSION BEGINNING THE PROJECT. I ALSO AUTHORIZE PERIODIC ON-SITE INSPECTION BY THE HOWARD SOIL CONSERVA

SIGNATURE OF DEVELOPER (PRINT NAME BELOW SIGNATURE) ACTING

11/5/10

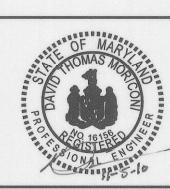
PIPE REPAIR 8255 PATUXENT RANGE ROAD

> ELECTION DISTRICT NO. 1 - JESSUP, MARYLAND CAPITAL PROJECT D-1125

DEPARTMENT OF PUBLIC WORKS HOWARD COUNTY, MARYLAND

AND SPECIAL PROJECTS

PREPARED BY 4 NORTH PARK DRIVE UNT VALLEY, MARYLAND



Filtering Efficiency

	DES:	DTM		A5-1941J	4/1
	DRN: BJK				
	CHK: DTM				
	DATE: 10/2010	BY	NO.	REVISION	DA