

Dewberry\*

#### SILT FENCE (VESCH STD & SPEC 3.05):

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. SILT FENCE IS INSTALLED TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS DURING CONSTRUCTION IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE AND TO DECREASE THE VELOCITY OF SHEET FLOWS AND LOW-TO-MODERATE CHANNEL FLOWS.

#### ROCK CHECK DAM (VESCH STD & SPEC 3.20)

A SMALL TEMPORARY STONE DAM CONSTRUCTED ACROSS A SWALE OR DRAINAGE DITCH. ROCK CHECK DAMS ARE INSTALLED TO REDUCE THE VELOCITY OF CONCENTRATED STORMWATER FLOW, THEREBY REDUCING EROSION OF THE SWALE OR DITCH. THE ROCK CHECK DAM TRAPS SEDIMENT GENERATED FROM ADJACENT AREAS OR THE DITCH ITSELF, MAINLY BY PONDING STORMWATER RUNOFF.

TOPSOILING (STOCKPILE) - ONSITE STOCKPILES ARE NOT ANTICIPATED FOR THIS PROJECT.

#### TEMPORARY SEEDING (VESCH STD & SPEC 3.31):

ESTABLISHMENT OF TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE FOR PERIODS OF 14 DAYS TO ONE YEAR BY SEEDING WITH APPROPRIATE RAPIDLY-GROWING PLANTS. SELECTION OF THE APPROPRIATE SEED MIXTURE WILL DEPEND UPON THE TIME OF YEAR IT IS TO BE APPLIED.

#### PERMANENT SEEDING (VESCH STD & SPEC 3.32):

AREAS DISTURBED BY CONSTRUCTION SHALL BE STABILIZED WITH PERMANENT SEEDING IMMEDIATELY FOLLOWING FINISH GRADING. PERMANENT AREAS SHALL BE SEEDED IN ACCORDANCE WITH THE PERMANENT SEEDING SCHEDULE SHOWN ON THE PLANS.

#### MULCHING (VESCH STD & SPEC 3.35):

APPLICATION OF PLANT RESIDUES OR OTHER SUITABLE MATERIALS TO DISTURBED SURFACES TO PREVENT EROSION AND REDUCE OVERLAND FLOW VELOCITIES. FOSTERS PLANT GROWTH BY INCREASING AVAILABLE MOISTURE AND PROVIDING INSULATION AGAINST EXTREME HEAT OR COLD. SHOULD BE APPLIED TO ALL SEEDING OPERATIONS, OTHER PLANT MATERIALS WHICH DO NOT PROVIDE ADEQUATE SOIL PROTECTION BY THEMSELVES, AND BARE AREAS WHICH CANNOT BE SEEDED DUE TO THE SEASON BUT WHICH STILL NEED PROTECTION TO PREVENT SOIL LOSS.

### PERMANENT STABILIZATION

THE SITE SHALL BE PERMANENTLY STABILIZED FOLLOWING CONSTRUCTION WITH PERMANENT SEEDING ACCORDING TO THE VESCH STD AND SPEC 3.32 AND THE PERMANENT SEEDING SCHEDULE FOR THE PIEDMONT AREA AS SHOWN ON THE PLANS. ESC MEASURES SHALL BE INSTALLED AND NO MORE THAN 500 LINEAR FEET OF TRENCH BE OPEN AT A GIVEN AREA OF CONSTRUCTION WITH STABILIZATION WITHIN SEVEN (7) DAYS OF THE AREA IMPACTED BY THE INSTALLATION OF THE SEWER. ALL DENUDED AREAS SHALL BE TEMPORARILY SEEDED AND STABILIZED WITHIN SEVEN (7) DAYS IN ACCORDANCE WITH MINIMUM STANDARD 16.

#### STORMWATER RUN-OFF CONSIDERATIONS

THE PROJECT WILL DISTURB APPROXIMATELY 0.31 ACRES OF LAND, REQUIRING REMOVAL OF EXISTING TREES WITHIN THE PROPOSED PERMANENT UTILITY EASEMENT. THE PROJECT AREA WILL BE REPLACED WITH TURF IN KIND AND ALLOWED TO RETURN TO EXISTING CONDITIONS. THIS PROJECT DOES NOT RESULT IN SIGNIFICANT CHANGES TO THE PRE-DEVELOPMENT RUNOFF CHARACTERISTICS OF THE LAND SURFACE AFTER COMPLETION OF CONSTRUCTION AND FINAL STABILIZATION. ALL STORMWATER RUNOFF FROM THE PROJECT AREA WILL BE SHEET FLOW OR CONVEYED THROUGH EXISTING CHANNELS. THEREFORE, WATER QUANTITY AND QUALITY CONTROLS ARE NOT REQUIRED.

- STREET WASHING SHALL BE ALLOWED ONLY AFTER SEDIMENT IS REMOVED IN THIS MANNER. THIS PROVISION SHALL APPLY TO INDIVIDUAL DEVELOPMENT LOTS AS WELL AS TO LARGER LAND-DISTURBING ACTIVITIES.
- MS-18: ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED, UNLESS OTHERWISE AUTHORIZED BY THE VESCP AUTHORITY. TRAPPED SEDIMENT AND DISTURBED SOIL AREAS RESULTING FROM THE DISPOSITION OF TEMPORARY MEASURES SHALL BE PERMANENTLY STABILIZED TO PREVENT FURTHER EROSION AND SEDIMENTATION.

### **GENERAL E&S CONTROL NOTES**

- UNLESS OTHERWISE INDICATED, VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK AND VIRGINIA REGULATIONS (9VAC25-840) EROSION AND SEDIMENT CONTROL REGULATIONS.
- THE PLAN-APPROVING AUTHORITY MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITY, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.
- ES-3: ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE PLACED PRIOR TO OR AS THE FIRST STEP IN CLEARING.
- ES-4: A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
- ES-5: PRIOR TO COMMENCING LAND DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING, BUT NOT LIMITED TO, OFF-SITE BORROW OR WASTE AREAS), THE CONTRACTOR SHALL SUBMIT A SUPPLEMENTARY EROSION CONTROL PLAN TO THE OWNER FOR REVIEW AND APPROVAL BY THE PLAN-APPROVING AUTHORITY.
- ES-6: THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE PLAN APPROVING AUTHORITY.
- ES-7: ALL DISTURBED AREAS ARE TO DRAIN TO APPROVED SEDIMENT CONTROL MEASURES AT ALL TIMES DURING LAND DISTURBING ACTIVITIES AND DURING SITE DEVELOPMENT UNTIL FINAL STABILIZATION IS ACHIEVED.
- ES-8: DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO AN APPROVED FILTERING DEVICE.
  - THE CONTRACTOR SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND AFTER EACH RUNOFF-PRODUCING RAINFALL EVENT. ANY NECESSARY REPAIRS OR CLEANUP TO MAINTAIN THE EFFECTIVENESS OF THE EROSION CONTROL DEVICES SHALL BE
- THE CONTRACTOR IS RESPONSIBLE FOR THE DAILY REMOVAL OF SEDIMENT THAT HAS BEEN TRANSPORTED ONTO A PAVED OR PUBLIC ROAD SURFACE.
- ES-11: SEEDING OPERATIONS SHALL BE INITIATED WITHIN 7 DAYS AFTER REACHING FINAL GRADE OR UPON SUSPENSION OF GRADING OPERATIONS FOR ANTICIPATED DURATION OF GREATER THAN 30 DAYS OR UPON COMPLETION OF GRADING OPERATIONS FOR A SPECIFIC AREA.
  - THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING SURFACE AND AIR MOVEMENT OF DUST FROM EXPOSED SOILS WHICH MAY PRESENT HEALTH HAZARDS, TRAFFIC SAFETY PROBLEMS, OR HARM ANIMAL OR PLANT LIFE.

NORTH AMERICAN DATUM NAD NAVD NORTH AMERICAN VERTICAL DATUM NGS NATIONAL GEODETIC SURVEY NO/# NUMBER NTS NOT TO SCALE NW NORTHWEST OD OUTER DIAMETER PG PAGE PVC POLYVINYL CHLORIDE RCP REINFORCED CONCRETE PIPE RD ROAD RLD RESPONSIBLE LAND DISTURBER RTK REAL TIME KINEMATIC R/W RIGHT OF WAY SOUTH SOUTHEAST SEPTEMBER SEPT SPEC **SPECIFICATION** SQ SQUARE ST STREET STA STATION STD STANDARD SY SQUARE YARD **TBM** TEMPORARY BENCH MARK TERRA COTTA **TEST HOLE** T/P TOP OF PIPE UNK UNKNOWN VA VIRGINIA **VCIA** VIRGINIA CROP IMPROVEMENT ASSOCIATION **VDOT** VIRGINIA DEPARTMENT OF TRANSPORTATION VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK **VESCH** VESCP VIRGINIA EROSION AND SEDIMENT CONTROL PROGRAM **VSMP** VIRGINIA STORMWATER MANAGEMENT PROGRAM WEST YARDS AND **CENTER LINE** PERCENT PLUS OR MINUS PROPOSED

# SEWER MANHOLE SANITARY SEWER **//////** SEWER TO BE ABANDONED

NORTH / NORTHING

SANITARY CLEANOUT

OVERHEAD ELECTRIC PAINTED UNDERGROUND GAS PAINTED UNDERGROUND TELEPHONE PUG PAINTED UNDERGROUND WATER BUILDING

SILT FENCE

HOURS) PRIOR TO CONSTRUCTION OR EXCAVATION ACTIVITIES.

**E&S CONTROL LEGEND** LIMITS OF DISTURBANCE

MULCHING

TEMPORARY SEEDING PERMANENT SEEDING

#### SURVEY NOTES 1. INVERTS FOR PIPES AND STRUCTURES SHOWN HEREON ARE BASED ON FIELD MEASUREMENTS, HOWEVER THEY SHOULD BE VERIFIED

- PRIOR TO CONSTRUCTION. PIPE SIZES, MATERIAL TYPE AND INVERT ELEVATIONS AS INDICATED ARE BASED UPON OBSERVATIONS MADE ABOVE GROUND. NO MEASUREMENTS HAVE BEEN PERFORMED BY PERSONNEL IN A CONFINED SPACE SITUATION.
- 3. EXISTING GROUND SURFACE LOCATION PERFORMED BY CONVENTIONAL INSTRUMENT SURVEY. HORIZONTAL (NAD'83) AND VERTICAL (NAVD'88) DATUM ESTABLISHED THROUGH REAL TIME KINEMATIC (RTK) GPS OBSERVATIONS ON APRIL 10, 2019. DIFFERENTIAL CORRECTIONS WERE DERIVED FROM NATIONAL GEODETIC SURVEY (NGS) CONTINUALLY OPERATING REFERENCE STATION (CORS) "VAAD". COORDINATE VALUES, IF SHOWN HEREON, ARE BASED ON VIRGINIA STATE GRID, SOUTH ZONE.
- UNDERGROUND UTILITIES WERE DESIGNATED (PAINTED) BY ACCUMARK ON APRIL 01, 2019. H & B SURVEYING AND MAPPING, LLC HAS FIELD LOCATED THE DESIGNATED LINES AS PAINTED AND IS NOT RESPONSIBLE FOR THE ACCURACY OF THE PAINT DESIGNATION WITH RESPECT TO THE EXISTING UTILITY. UTILITY INFORMATION ON THIS DRAWING WILL NEED TO BE FIELD VERIFIED PRIOR TO CONSTRUCTION. INDIVIDUALS ARE REQUIRED BY VIRGINIA LAW TO CONTACT MISS UTILITY OF VIRGINIA AT 1-800-552-7001 (OR 811) 2 BUSINESS DAYS (48
- THE PROPERTY SHOWN HEREON FALLS IN THE FOLLOWING FLOOD HAZARD ZONE: "X"(UNSHADED)-AREAS DETERMINED TO BE OUTSIDE OF THE 0.2% ANNUAL CHANCE FLOOD PLAIN.THE APPROXIMATE BOUNDARY LIMITS OF THESE AREAS ARE SHOWN GRAPHICALLY, IF THEY FALL WITHIN THE LIMITS OF THIS SURVEY, AS SCALED FROM FEMA FLOOD INSURANCE RATE MAP, MAP NUMBER 5101290009D, REVISED DATE:
- 7. PROPERTY LINES SHOWN HEREON ARE TAKEN FROM COURT HOUSE RECORDS, EVIDENCE OF MONUMENTATION AND OCCUPATION FOUND IN THE FIELD. THIS SURVEY DOES NOT CONSTITUTE A BOUNDARY SURVEY AND WAS PREPARED WITHOUT THE BENEFIT OF A TITLE COMMITMENT. THEREFORE ALL EASEMENTS MAY NOT BE SHOWN ON THIS SURVEY.
- 8. THIS SURVEY WAS COMPLETED UNDER THE DIRECT AND RESPONSIBLE CHARGE OF ALISON W. HANSON, LS FROM AN ACTUAL GROUND SURVEY MADE UNDER HER SUPERVISION. THE IMAGERY AND/OR ORIGINAL DATA WAS OBTAINED ON APRIL 15, 2019 & SEPTEMBER 09, 2019 THIS PLAT, MAP, OR DIGITAL GEOSPATIAL DATA INCLUDING METADATA MEETS MINIMUM ACCURACY STANDARDS UNLESS OTHERWISE NOTED.



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SEAL HEATHER A. CAMPBEL Lic. No. 041395 **KEY PLAN** 

DATE | BY | Description REVISIONS

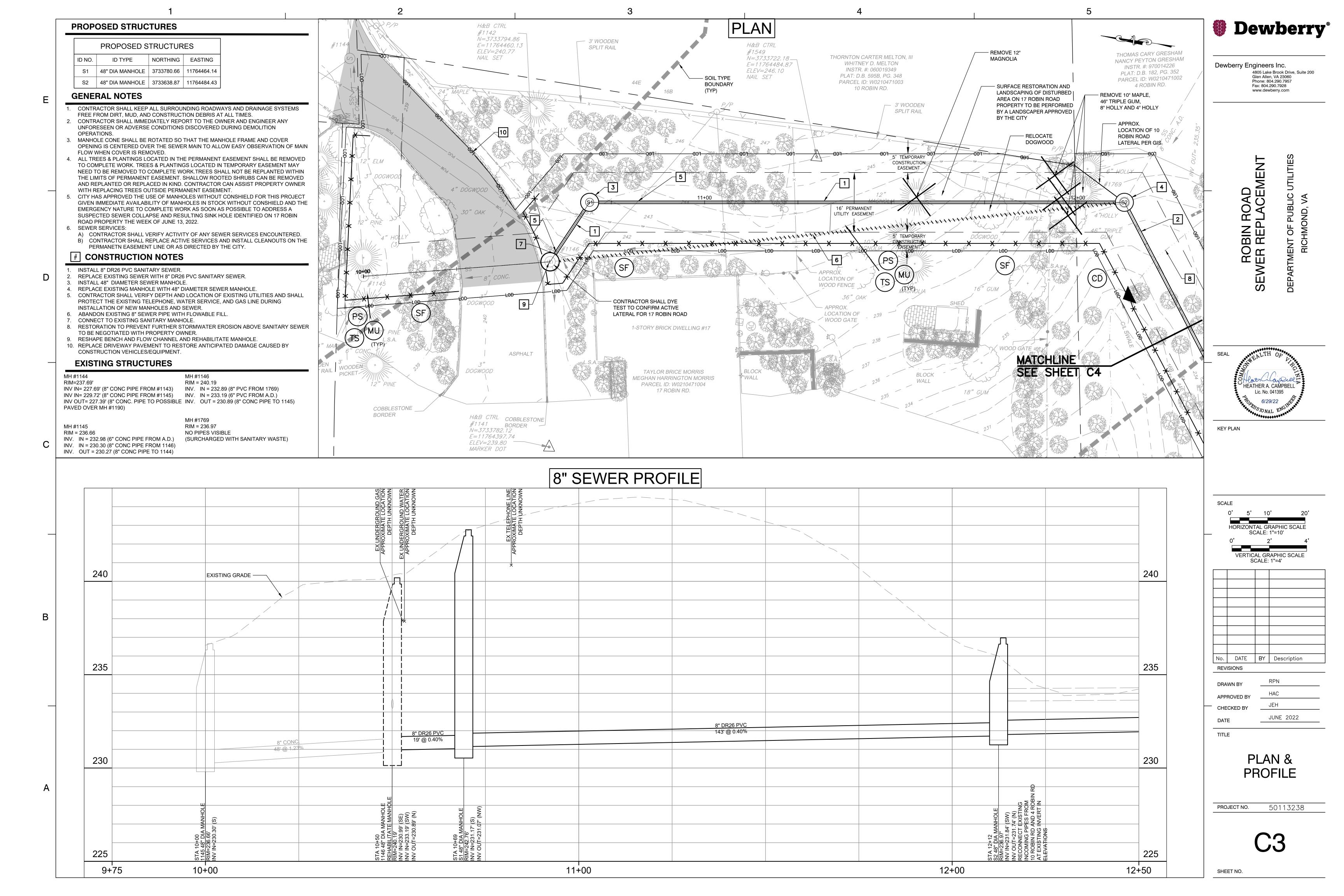
DRAWN BY APPROVED BY CHECKED BY JUNE 2022

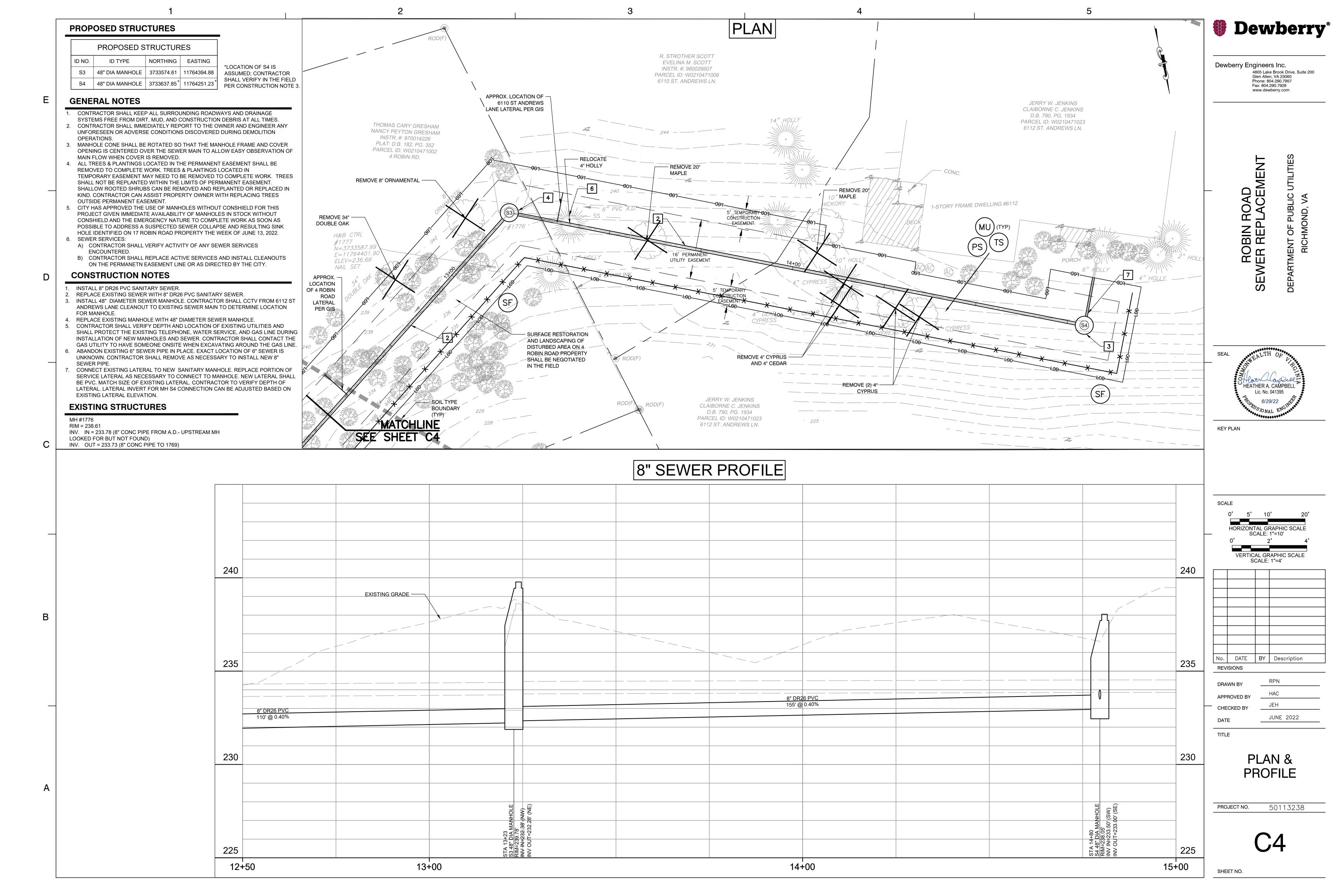
GENERAL NOTES, **E&S NARRATIVE** 

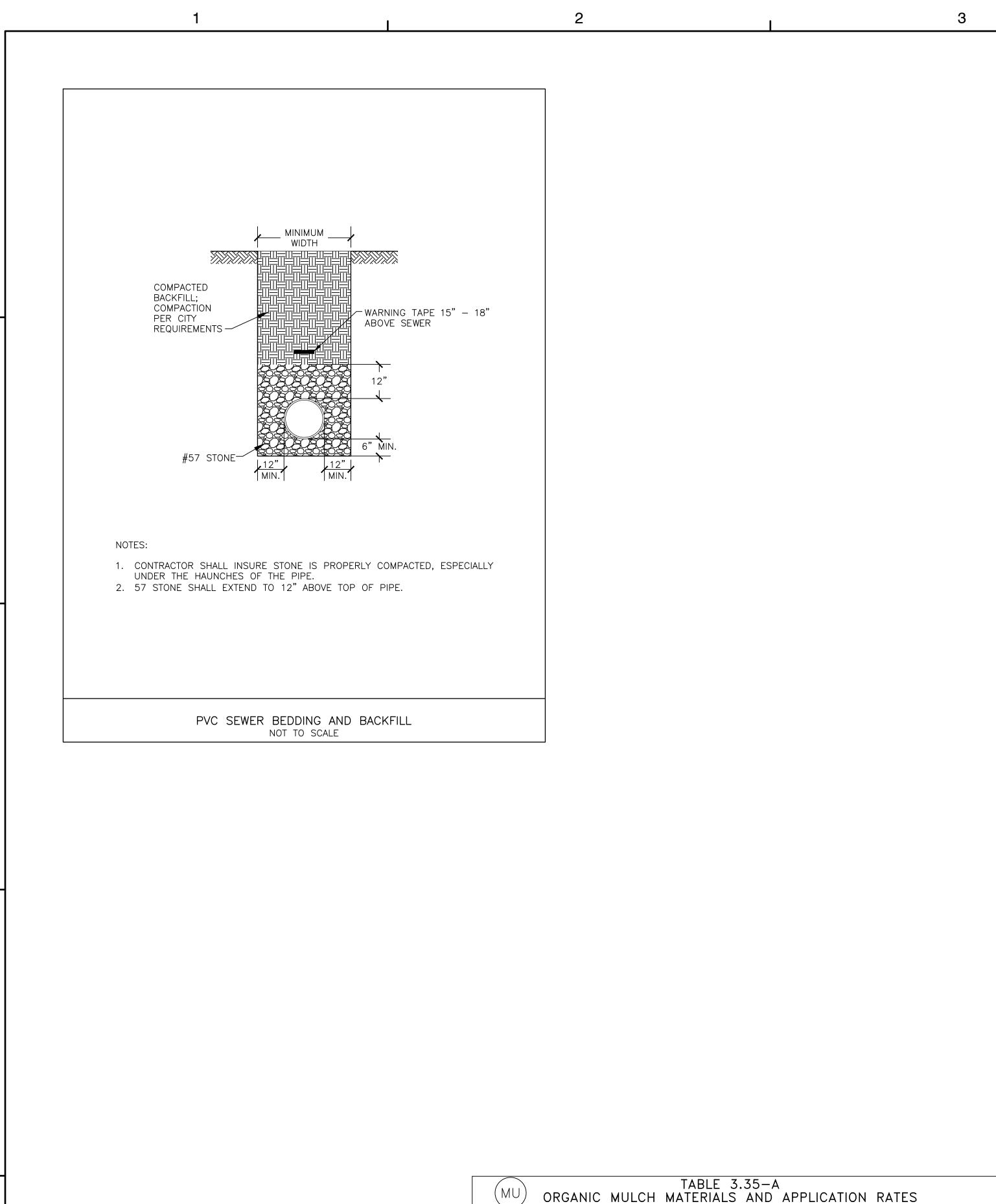
PROJECT NO. 50113238

TITLE









RATES:

PER ACRE

 $1\frac{1}{2}$  - 2 TONS (MINIMUM 2 TONS FOR

WINTER COVER)

MINIMUM 1500 LBS

4 - 6 TONS

4 - 6 TONS

50 - 70 CU YDS

APPLY AT A MINIMUM RATE OF 2000 LBS/AC OR 45 LBS/1000 SQ FT.

PER 1000 SQ FT

70-90 LBS

185-275 LBS

1-2 CU YDS

\* WHEN FIBER MULCH IS THE ONLY AVAILABLE MULCH DURING PERIODS WHEN STRAW SHOULD BE USED,

FREE FROM WEEDS AND COARSE MATTER. MUST BE

ANCHORED. SPREAD WITH MULCH BLOWER OR BY HAND.

DO NOT USE AS MULCH FOR WINTER COVER OR DURING

CUT OR SHREDDED IN 4-6" LENGTHS. AIR-DRIED. DO

FREE OF COARSE MATTER. AIR-DRIED. TREAT WITH 12

AREAS. APPLY WITH MULCH BLOWER, CHIP HANDLER, OR

LBS NITROGEN PER TON. DO NOT USE IN FINE TURF

FREE COARSE MATTER. AIR-DRIED. DO NOT USE IN

FINE TURF AREAS. APPLY WITH MULCH BLOWER, CHIP

NOT USE IN FINE TURF AREAS. APPLY WITH MULCH

HOT, DRY PERIODS.\* APPLY AS SLURRY.

BLOWER OR BY HAND.

HANDLER, OR BY HAND.

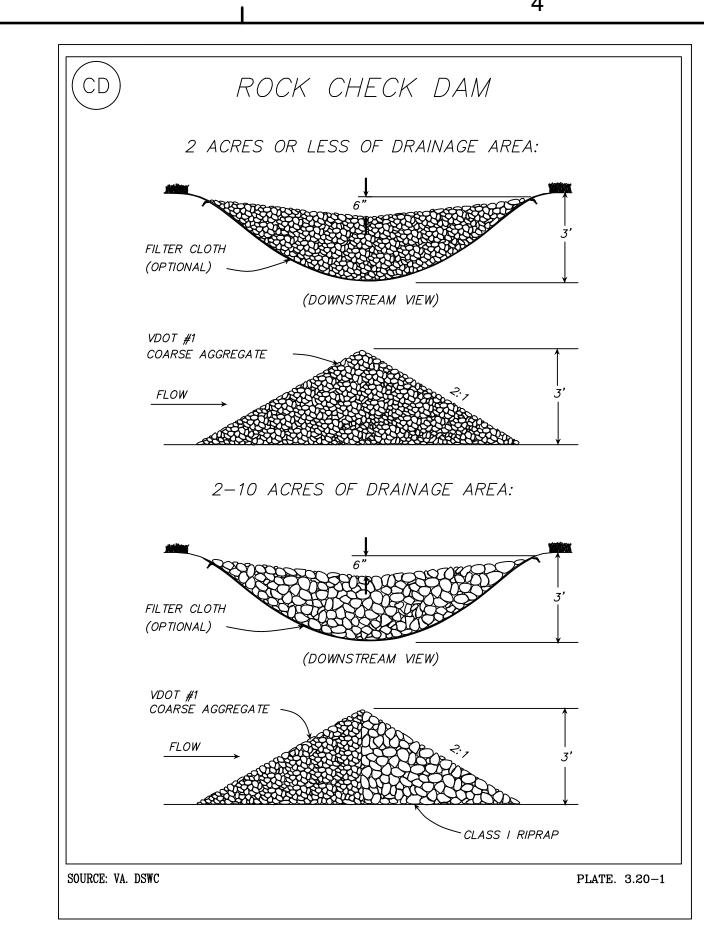
BY HAND.

MULCHES:

FIBER MULCH

WOOD CHIPS

BARK CHIPS OR SHREDDED



SEED <sup>1</sup>					
LAND USE	SPECIES	APPLICATION PER ACRE			
MINIMUM CARE LAWN (COMMERCIAL OR RESIDENTIAL)	TALL FESCUE  PERENNIAL RYEGRASS  KENTUCKY BLUEGRASS	95-100% 0-5% 0-5% TOTAL: 175-200 LBS			
HIGH-MAINTENANCE LAWN	TALL FESCUE <sup>1</sup>	TOTAL: 200-250 LBS			
GENERAL SLOPE (3:1 OR LESS)	TALL FESCUE <sup>1</sup> RED TOP GRASS OR CREEPING RED FESCUE SEASONAL NURSE CROP <sup>2</sup>	128 LBS 2 LBS 20 LBS TOTAL: 150 LBS			
LOW MAINTENANCE SLOPE (STEEPER THAN 3:1)	TALL FESCUE <sup>1</sup> RED TOP GRASS OR CREEPING RED FESCUE SEASONAL NURSE CROP <sup>2</sup> CROWNVETCH <sup>3</sup>	108 LBS  2 LBS 20 LBS 20 LBS TOTAL: 150 LBS			

1-WHEN SELECTING VARIETIES OF TURFGRASS, USE THE VIRGINIA CROP IMPROVEMENT ASSOCIATION (VCIA) RECOMMENDED TURFGRASS VARIETY LIST. QUALITY SEED WILL BEAR A LABEL INDICATING THAT THEY ARE APPROVED BY VCIA. A CURRENT TURFGRASS VARIETY LIST IS AVAILABLE AT THE LOCAL COUNTY EXTENSION OFFICE OR THROUGH VCIA AT 804.746.4884 OR AT HTTP://SUDAN.CSES.VT.EDU/HTML/TURF/TURF/PUBLICATIONS/PUBLICATIONS2

2-USE SEASONAL NURSE CROP IN ACCORDANCE WITH SEEDING DATES AS STATED BELOW:

FEBRUARY 16 - APRIL 30..... ANNUAL RYE MAY 1 - AUGUST 15..... FOXTAIL MILLET AUGUST 16 - OCTOBER 31..... ANNUAL RYE NOVEMBER 1 - FEBRUARY 15..... WINTER RYE

3-SUBSTITUTE SERICEA LESPEDEZA FOR CROWNVETCH EAST OF FARMVILLE, VA (MAY THROUGH SEPTEMBER USE HULLED SEED, ALL OTHER PERIODS, USE UNHULLED SERICEA). IF FLATPEA IS USED, INCREASE RATE TO 30 LBS/ACRE. IF WEEPING LOVEGRASS IS USED, INCLUDE IN ANY SLOPE OR LOW MAINTENANCE MIXTURE DURING WARMER SEEDING PERIODS, INCREASE TO 30-40 LBS/ACRE.

#### FERTILIZER & LIME

- APPLY 10-20-10 FERTILIZER AT A RATE OF 500 LBS/ACRE (OR 12 LBS/1,000 SQ FT)
- APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 2 TONS/ACRE (OR 90 LBS/1,000 SQ FT)

1.) A SOIL TEST IS NECESSARY TO DETERMINE THE ACTUAL AMOUNT OF LIME REQUIRED TO ADJUST THE SOIL pH OF SITE. 2.)INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR BY OTHER MEANS.

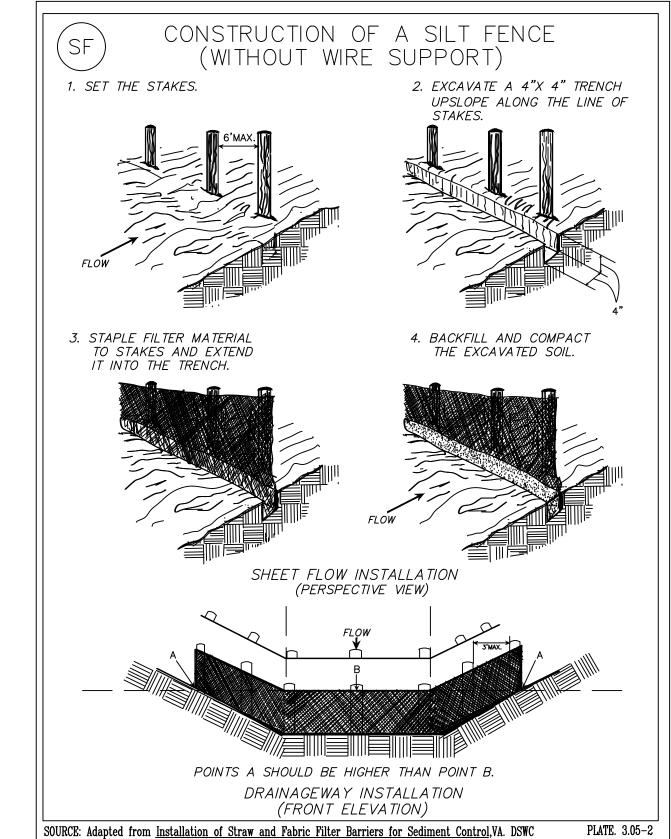
3.)WHEN APPLYING SLOWLY AVAILABLE NITROGEN USE RATES AVAILABLE IN EROSION & SEDIMENT CONTROL TECHNICAL BULLETIN NO 4, NUTRIENT MANAGEMENT FOR DEVELOPMENT SITES AT: HTTP://WWW.DEQ.VIRGINIA.GOV/PORTALS/0/DEQ/WATER/PUBLICATIONS/

(PS)PERMANENT SEEDING SPECIFICATIONS

ESCTÉCHNICALBULLETIN4.PDF.

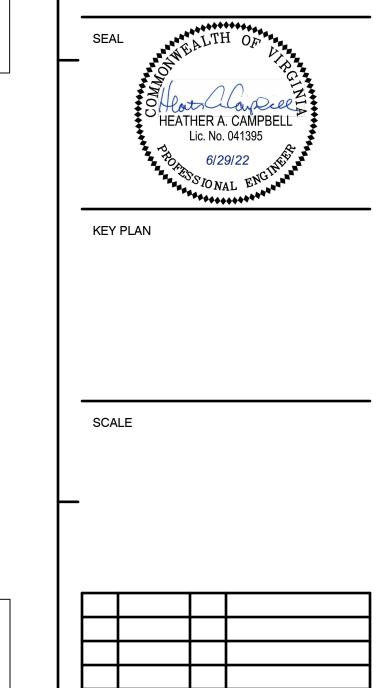
TABLE 3.32-D

FOR PIEDMONT AREA (REVISED JUNE 2003)



Sherwood and Wyant

CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)  1. SET THE STAKES.  2. EXCAVATE A 4"X 4" TRENCH UPSLOPE ALONG THE LINE OF STAKES.  3. STAPLE FILTER MATERIAL  4. BACKFILL AND COMPACT
FLOW  FLOW  4"
3 STAPLE FILTER MATERIAL 4 BACKFILL AND COMPACT
TO STAKES AND EXTEND  IT INTO THE TRENCH.  TO STAKES AND EXTEND  THE EXCAVATED SOIL.
FLOW
SHEET FLOW INSTALLATION (PERSPECTIVE VIEW)
FLOW 3'MAX.



Dewberry\*

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SEW

SEED				-				
APPLICATION DATES	SPECIES	APPLICATION RATES	<b>     </b>					
SEPT 1 - FEB 15	50/50 MIX OF ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) & CEREAL (WINTER) RYE (SECALE CEREALE)	50-100 (LBS/ACRE)						
FEB 16 - APR 30	ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM)	60-100 (LBS/ACRE)		No.	DATE	BY	Description	
MAY 1 — AUG 31	GERMAN MILLET	50 (LBS/ACRE)		REVISIONS  DRAWN BY  RPN				
			]	APPROVED BY			HAC	
FERTILIZER & LIME				CHECKED BY			JEH	

### FERTILIZER & LIME

- APPLY 10-10-10 FERTILIZER AT A RATE OF 450 LBS/ACRE (OR 10 LBS/1,000 SQ FT)
- APPLY PULVERIZED AGRICULTURAL LIMESTONE AT A RATE OF 2 TONS/ACRE (OR 90 LBS/1,000 SQ FT)
- 1.) A SOIL TEST IS NECESSARY TO DETERMINE THE ACTUAL AMOUNT OF LIME REQUIRED TO ADJUST THE SOIL pH OF SITE. 2.)INCORPORATE THE LIME AND FERTILIZER INTO THE TOP 4-6 INCHES OF THE SOIL BY DISKING OR BY OTHER MEANS.
- 3.) WHEN APPLYING SLOWLY AVAILABLE NITROGEN USE RATES AVAILABLE IN EROSION & SEDIMENT CONTROL TECHNICAL BULLETIN #4, NUTRIENT MANAGEMENT FOR DEVELOPMENT SITES AT:

HTTP://WWW.DEQ.VIRGINIA.GOV/PORTALS/0/DEQ/WATER/PUBLICATIONS/ ESCTÉCHNICALBULLETIN4.PDF.

## TEMPORARY SEEDING SPECIFICATIONS QUICK REFERENCE FOR ALL REGIONS

TABLE 3.31-B

(REVISED JUNE 2003)

DETAILS

JUNE 2022

PROJECT NO. 50113238

SHEET NO.

DATE

TITLE