

TEMPORARY SEDIMENT TRAP DATA								TITLE	KEY	SYMBOL	NO.	TITLE :	KEY	SYMBOL
STRUCTURE	DRAINAGE AREA (ACRES)	STORA REQ'D	GE (C.Y.) DESIGN	WEIR LENGTH (FT.)	WEIR HEIGHT (FT.)	BERM HEIGHT (FT.)	3.01	SAFETY FENCE	SAF	(A)	3.20	ROCK CHECK DAMS	CD L	-))
		7 1 20 20	DE 01011				3,02	TEMPORARY GRAVEL CONSTRUCTION ENTRANCE	(CE)		3,21	LEVEL SPREADER	LS	
1	1.9	255	322	12'	2'	3'	3,03	CONSTRUCTION ROAD STABILIZATION	CRS	(R)	3.22	VEGETATIVE STREAMBANK STABILIZATION	(2V)	(3)
	WET -	W=34',	L=64',	D=2'			3.04	STRAW BALE BARRIER	STB		3,23	STRUCTURAL STREAMBANK STABILIZATION	[SSS	
	DRY -	W=42',	L=72',	D=2'			3.05	SILT FENCE	SF	-x-x-x	3.24	TEMPORARY VEHICULAR STREAM CROSSING	(VS)	
							3,06	BRUSH BARRIER	BB	68000000	3.25	UTILITY STREAM CROSSING	USC	
2	2.4	322	384	15'	2'	3'	3.07	STORM DRAIN INLET PROTECTION	[IP]		3.26	DEWATERING STRUCTURE	DS	₽
	WET -	W=37',	L=70',	D=2'			3.08	CULVERT INLET PROTECTION	CIP		3.27	TURBIDITY CURTAIN	TC	
	DRY -	W=45',	L=78',	D=2'			3.09	TEMPORARY DIVERSION DIKE	DD	(D)	3.28	SUBSURFACE DRAIN	SD	
							3.10	TEMPORARY FILL DIVERSION	FD	<u>(1)</u>	3.29	SURFACE ROUGHENING	SR	(SR)
				<u> </u>			3.11	TEMPORARY RIGHT-OF-WAY DIVERSION	(RW)	₩)	3,30	TOPSOILING		-
							3.12	DIVERSION		(DV)	3.31	TEMPORARY SEEDING	TS	(15)
	Ţ	— Endwall					3.13	TEMPORARY SEDIMENT TRAP	TZ		3.32	PERMANENT SEEDING	PS	PS
3' + Toe of 1	FIII -	Culvert	t				3.14	TEMPORARY SEDIMENT BASIN	(ZB)		3.33	SODDING		- (SD)
				-			3.15	TEMPORARY SLOPE DRAIN	TSD	(3)	3.34	BERMUDA GRASS AND ZOYSIAURASS ESTABLISHMENT	\mathbb{B}_{M}	B OR H
-	; 1 	Ĭ 					3,16	PAVED FLUME	PF	(F)	3.35	MULCHING	MU	(NU)
							3.17	STORMWATER CONVEYANCE CHANNEL	SCC		3,36	DEHING 12 HIND MHILLING	BEZE	TREAT. 1 TREAT
SIIt Fen	nce	LT L	oe of FIll				3,18	OUTLET PROTECTION			3,37	TREES, SHRUBS, VINES And Ground Covers	VED	→ (VED →
* Distance Is 6' minimum If flow Flow is toward embankment.							3.19	RIPRAP	RR		3.38	TREE PRESERVATION AND PROTECTION	TP	(IP)

EROSION AND SEDIMENT CONTROL NARRATIVE

PROJECT DESCRIPTION
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF APPROXIMATELY 1300 LF OF PUBLIC ROAD WITH ASSOCIATED WATER, SANITARY SEWER, AND STORM DRAIN SYSTEMS. THIS PROJECT ALSO INCLUDES THE GRADING OF THREE (3) LARGE TRACTS OF LAND FOR FUTURE DEVELOPMENT.

EXISTING SITE CONDITIONS
EXISTING SITE CONDITIONS CONSIST OF MODERATELY STEEP, WOODEN LAND WHICH DRAINS TO A NATURAL WATERCOURSE WHICH RUNS WEST TO EAST THROUGH THE MIDDLE OF THE PROPERTY.

ADJACENT AREAS
THE PROPERTY IS BOUNDED TO THE NORTH BY STATESMAN INDUSTRIAL PARK, TO THE WEST BY PREVIOUS SECTIONS OF RCIT, TO THE SOUTH BY PREVIOUS SECTIONS OF RCIT AND BLUE HILLS GOLF COURSE, AND TO THE EAST BY FUTURE SECTIONS OF THE RCIT DEVELOPMENT.

OFFSITE AREAS
NO OFFSITE FILL OR BORROW SITES ARE COVERED BY THIS EROSION AND SEDIMENT CONTROL PLAN.

NO SOILS INFORMATION WAS READILY AVAILABLE FOR THIS SITE.

(CIP) SILT FENCE CULVERT INLET

PROTECTION

EROSION AND SEDIMENT CONTROL MEASURES
UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED AND MAINTAINED ACCORDING TO MINIMUM STANDARDS AND SPECIFICATIONS OF THE HANDBOOK. THE MINIMUM STANDARDS OF THE VESCH SHALL BE ADHERED TO UNLESS OTHERWISE WAIVED OR APPROVED BY A VARIANCE.

CONSTRUCTION ENTRANCE (3.02) — A STONE CONSTRUCTION ENTRANCE WILL BE INSTALLED TO MINIMIZE THE AMOUNT OF MUD TRANSPORTED INTO EXISTING STREETS.

SILT FENCE (3.05) — SILT FENCE WILL BE PLACED DOWNSTREAM OF DISTURBED AREAS TO PREVENT SEDIMENT FROM LEAVING THE SITE.

STORM DRAIN INLET PROTECTION (3.07) — STORM DRAIN INLET PROTECTION WILL BE INSTALLED TO INTERCEPT SEDIMENT—LADEN RUNOFF PRIOR TO ENTERING THE STORM DRAIN SYSTEM. <u>DIVERSION DIKE (3.12)</u> — DIVERSION DIKES WILL BE UTILIZED TO DIVERT RUNOFF INTO THE SEDIMENT TRAPS AND SEDIMENT BASINS.

SEDIMENT TRAPS (3.13) — SEDIMENT TRAPS WILL BE INSTALLED TO DETAIN SEDIMENT—LADEN RUNOFF TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT PRIOR TO LEAVING THE SITE. SEE EROSION AND

SEDIMENT CONTROL DETAIL SHEET FOR ACTUAL DIMENSIONS. SEDIMENT BASIN (3.14) - TWO (2) SEDIMENT BASINS WILL BE INSTALLED TO DETAIN SEDIMENT-LADEN RUNOFF TO ALLOW THE MAJORITY OF THE SEDIMENT TO SETTLE OUT PRIOR TO LEAVING THE SITE. SEE SEDIMENT BASIN DETAILS FOR ACTUAL DIMENSIONS.

OUTLET PROTECTION (3.18) — OUTLET PROTECTION WILL BE INSTALLED AT THE OUTLET ENDS OF THE STORM DRAIN SYSTEMS TO PROTECT THE PIPE OUTFALLS FROM ERODING.

ROCK CHECK DAM (3.20) - ROCK CHECK DAMS WILL BE INSTALLED TO TRAP SEDIMENT-LADEN RUNOFF. MANAGEMENT STRATEGIES:

- 1. CONSTRUCTION WILL BE SEQUENCED SO THAT GRADING OPERATIONS CAN BEGIN AND END AS QUICKLY AS
- 2. THE CONSTRUCTION ENTRANCE AND SILT FENCE SHALL BE INSTALLED AS THE FIRST STEP IN THE CONSTRUCTION PROCESS. 3. INLET AND OUTLET PROTECTION SHALL BE INSTALLED ALONG WITH THE STORM DRAIN INSTALLATION.
- 4. DIVERSION DIKES SHALL BE CONSTRUCTED ALONG WITH THE SEDIMENT BASINS/TRAPS WHICH THEY FEED. 5. SEDIMENT BASIN No. 1 AND THE STORM DRAIN SYSTEM FROM STRUCTURE "A" THROUGH STRUCTURE "H"
- SHALL BE INSTALLED PRIOR TO GRADING OPERATIONS FOR TRACT "A" CAN BEGIN.
- 6. SEDIMENT BASIN No. 2 AND SEDIMENT TRAPS No. 1 AND No. 2 SHALL BE INSTALLED PRIOR TO BEGINNING GRADING OPERATIONS ON TRACT "F".

STORMWATER MANAGEMENT FOR THIS PROJECT WAS ADDRESSED WITH PREVIOUS SECTIONS OF RCIT.

- 7. PERFORM PERMANENT SEEDING ON ALL AREAS NOT RECEIVING PAVEMENT AS SOON AS THOSE AREAS ARE BROUGHT TO FINAL GRADE.
- 8. ONCE SITE IS STABILIZED, TEMPORARY EROSION SEDIMENT CONTROL MEASURES MAY BE REMOVED, AND THOSE AREAS BROUGHT TO FINAL GRADE AND STABILIZED.

PERMANENT STABILIZATION
ALL DENUDED AREAS ARE TO RECEIVE PERMANENT SEEDING AS SOON AS THOSE AREAS REACH FINAL GRADE.

ALL EROSION AND SEDIMENT CONTROL MEASURES WILL BE CHECKED DAILY AND AFTER EACH SIGNIFICANT RAINFALL IN PARTICULAR:

- 1. THE SEDIMENT TRAPS AND BASINS WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. CLEAN OUT AS NECESSARY TO MAINTAIN DESIGN VOLUMES.
- 2. OUTLET PROTECTION WILL BE CHECKED REGULARLY FOR SEDIMENT BUILDUP. WHICH WILL PREVENT DRAINAGE. IF STONE IS CLOGGED BY SEDIMENT, IT WILL BE REMOVED AND CLEANED OR REPLACED.
- 3. THE SILT FENCE WILL BE CHECKED REGULARLY FOR UNDERMINING OR DETERIORATION OF THE FABRIC. SEDIMENT SHALL BE REMOVED WHEN SEDIMENT BUILDUP REACHES THE MIDWAY POINT OF

DUST CONTROL

4. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO ENSURE THAT A GOOD STAND OF GRASS IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS REQUIRED TO ACHIEVE A GOOD

GENERAL EROSION AND SEDIMENT CONTROL NOTES

- 1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED
- 2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.

IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

- 3, ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS
- 4, IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN
- 5, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.
- 6, FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. THESE SYMBOLS AND KEYS ARE TO BE UTILIZED ON ALL EROSION CONTROL



PERMANENT SEEDING MIXTURE

15 MARCH TO 1 MAY 15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF 1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF

RED TOP @ 1/8 LB / 1000 SF 15 AUGUST TO 1 DCTOBER CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER)

CROWN VETCH @ 1/2 LB / 1000 SF

GERMAN MILLET @ 1/2 LB / 1000 SF 1 SEPTEMBER TO 15 OCTOBER K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF

K-31 FESCUE @ 5 LB / 1000 SF

140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE FERTILIZER: 5-20-10 @ 25 LB / 1000 SF

38-0-0 @ 7 LB / 1000 SF IF REQUIRED, SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 1.75 OF THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION.

INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEEDLINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED

BY THE INSPECTOR. SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE, SEEDBED. MAXIMUM SEEDING DEPTH SHALL BE 1/4 INCH.

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ATES, IS-PLANN

ASSOCI, IRVEVOR

LUMSDEN ENGINEERS-SI

EROSION CONTROL DETAILS

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