GENERAL NOTES

1. OWNER AND DEVELOPER: HANOVER COUNTY
P. O. BOX 470
HANOVER, VA 23069
PHONE: [804] 537-6201
FAX: [804] 537-6201
ATIN: STEVEN P. HERZOG, P.E.

HAZEN AND SAWYER 4011 WESTCHASE BLVD RALEIGH, NC 27607 PHONE: (919)833-7152 FAX: (919)833-1828 ATTN: DAVID NAILOR

- 2. TAX MAP W'S: GPIN 8726-62-7679, PART OF GPIN 8726-81-5151 AND PART OF GPIN 8726-72-8300

- CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL UNDERGROUND UTILITIES SHOWN ON PLANS IN AREA OF CONSTRUCTION PRIOR TO STARTING WORK. CONTACT ENGINEER IMMEDIATELY IF THERE APPEARS TO BE A CONFLICT AND UPON DISCOVERY OF ANY UTILITY NOT SHOWN ON THE PLAN.
- 6. ESTIMATED WATER DEMAND: 125,000 GPD
- 7. ESTIMATED SEWER DEMAND: NA
- 8. SUBJECT SITE IS LOCATED ADJACENT TO POLE GREEN PARK OFF OF POLE GREEN RD.

- 12. PARKING: (REQUIRED) 1 SPACE/ 2 EMPLOYEES X 4 EMPLOYEES (MAX.) = 2 SPACES (PROVIDED) 5 SPACES
- 14. LANDSCAPE CALCULATIONS : PARKING PAVEMENT: 100 SQ. FT. 5% LANDSCAPING REQUIRED = 5 SQ. FT. LANDSCAPING PROVIDED: 500 SQ. FT.

- 15. EXISTING TOPOGRAPHY FROM AERIAL SURVEY BY BELL SURVEY, MAY 30, 1997.
- . BOUNDARY INFORMATION FROM PLAT BY TIMMONS TITLED "PLAT SHOWING 128.4 ± ACRES LYING SOUTH OF TOTOPOTOMY CREEK ALONG WITH RIGHT—OF—MAY TO POLE GREEN ROAD" DATED MARCH 8, 1997 .
- 17. FIRM COMMUNITY PANEL NO.: 510237 0340 A AND 510237 0345 A DATED SEPTEMBER 2, 1981

EROSION CONTROL NOTES

- PERMANENT OR TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DENUDED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE STIF
- 3. DURING CONSTRUCTION OF THE PROJECT, SOIL STOCK PILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
- 4. STABILIZATION MEASURES SHALL BE APPLIED TO EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS IMMEDIATELY AFTER INSTALLATION.
- 5. EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND INSTALLED AS A FIRST STEP IN ANY LAND-DISTURBING ACTIVITY AND SHALL BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE.
- 6. A PERMANENT VEGETATIVE COVER SHALL BE ESTABLISHED ON DENUDED AREAS NOT OTHERWISE PERMANENTLY STABLIZED. PERMANENT VEGETATION SHALL NOT BE CONSIDERED ESTABLISHED UNITL A ROZUMO COVER IS AGREST DATA!, IN THE OPHION OF THE COUNTY ENGINEER OR HIS DESIGNATED AGENT, IS UNIFORM, MATURE ENCOLOFT OS STRIVE AND WILL INHIBIT EROSION.
- 7. UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:

APPROXIMATE MATERIAL QUANTITIES

155 IF OF 12" WATERINE 1130 LF OF 8" WATERLINE

EROSION CONTROL

- 1 CONSTRUCTION ENTRANCE
- 1 SEDIMENT BASIN 6 SEDIMENT TRAPS
- 20 CHECK DAMS
 18 CULVERT INLET PROTECTION 8 OUTLET PROTECTION PADS
- 1900 LF OF DIVERSION DITCH 150 LF OF DIVERSION DIKE 300 LF OF SLOPE DRAIN

9000 SY OF SOIL STABLIZATION BLANKET AND MATTING

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- UNDERGROUND UTILITY LINES SHALL BE INSTALLED IN ACCORDANCE WITH THE FOLLOWING STANDARDS IN ADDITION TO OTHER APPLICABLE CRITERIA:
- NO MORE THAN SOO LINEAR FEET OF TRENCH MAY BE OPENED AT ONE TIME EXCAVITED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF TRENCHE FETURENT FROM DEWATERING OFFER THORS SHALL BE FILTERED OF PRASSED THROUGH AN APPROVED SEDMENT TRAPPING DEVICE, OR BOTH, AND DISCHAREED IN A MANNER THAT DOES NOT JOVERSELY AFFECT FORMING STREAMS OR OFF-SITE PROGERTY.
- B. ALL APPLICABLE FEDERAL, STATE, AND LOCAL REGULATIONS PERTAINING TO WORKING IN OR CROSSING A LIVE WATERCOURSE SHALL BE MET.
- 9. WHERE CONSTRUCTION VEHICLE ACCESS ROUTES INTERSECT PAVED PUBLIC ROADS, PROVISIONS SHALL BE MADE TO MINIMIZE THE TRANSPORT OF SEDMENT BY A PUBLIC ROAD SURFACE. HE ROAD SHALL BE CLEMED THROUGHLY AT THE END OF EACH OF SURFACE THE ROAD SHALL BE CEMEND THROUGHLY AT THE END OF EACH DAY. SEDMENT SHALL BE REMOVED FROM THE ROADS BY SHOVELING OF SWEEPING AND TRANSPORTED TO A DISPOSAL RADE.
- ADDITIONAL EROSION CONTROL DEVICES MAY BE REQUIRED BY THE COUNTY ENGINEER OR HIS DESIGNATED AGENT IF DEEMED NECESSARY.
- 12. ALL EROSION CONTROL DEVICES SHALL BE IN PLACE AND FUNCTIONAL AT ALL TIMES AND IF REMOVED FOR CONSTRUCTION PROGRESS, SHALL BE REPLACED BY THE CLOSE OF EACH WORKNEY.
- 13. FINAL REMOVAL OF EROSION CONTROL DEVICES SHALL NOT OCCUR UNTIL THE COUNTY ENGINEER OR HIS DESIGNATED AGENT DEEMS THE SITE STABILIZED. 14. PERMANENT SEEDING IS TO BE IN ACCORDANCE WITH THE ACCOMPANYING SEEDING SCHEDULE.

CBPA NOTES

- CONTA NOTES AND SEMENT CONTROL REQUIREMENTS OF CHAPTER 10 SEMENT CONTROL RECORDS OF CONTROL WATER AND SEMENT LINES ARE OUTSIDE AN IRP. AND SEMENT WE MESTILLATION IS IN CONTRIBUTION OF THE MATER AND SEMENT WE MESTILLATION.

 3. ALL WATER AND SEMENT WE CONSTRUCTION IS IN CONTRIBUTION WITH ALL OTHER APPULABLE EPERAL, STATE AND LOCAL RECORDEMENTS AND PERMITS AND DESIGNED AND CONDUCTED IN A MANAGER THAT PROTECTS WATER COUNTY. THOUSAND THE HUMBER COSON FETT, BUT COMPLETE WITH ALL RECISION AND SEDMENT CONTROL RECURREMENTS OF CHAPTER 10 OF THE HAMOVER COUNTY CONTROL OF THE CONTR

HANOVER COUNTY GENERAL UTILITY NOTES:

1. ALL WATER AND SEWER CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE
WITH THE STANDARDS AND REQUIREMENTS OF THE HANOVER COUNTY DEPARTMENT OF
PUBLIC UTILITIES.

2. THE CONTRACTOR SHALL CONTACT THE HANOVER COUNTY DEPARTMENT OF PUBLIC
UTILITIES INSPECTION DIVISION AT LEAST 48 HOURS PROOT TO BEGINNION ANY
CONSTRUCTION ACTIVITY ON WARER ON SEWER MEMOREMENTS TO SCHEDULE A

3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL REQUIRED PERMITS FOR THE
MORK.

ON THE CUMINALISM IS NESSMENT FOR GETAINING ALL REQUIRED PERMITS FOR THE WORK.

ALL NORW WITHIN A PUBLIC ROAD BROIT-OF-WAY.

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WATERINES, 12" AND SMALER SHALL BE DUCTUE IRON PIPE MEETING THE RECUREMENTS IS 2" AND SMALER SHALL BE DUCTUE IRON PIPE MEETING THE RECUREMENTS IS A WAY.

6. MEETER BOX LIDS SHALL HAVE A 1-3/4" DIAMETER HOLE LOCATED IN ITS CENTER. THE HOLE SHALL BRIBER BE ASTAIL HAVE A 1-3/4" DIAMETER HOLE LOCATED IN TIS CENTER. THE HOLE SHALL BRIBER BE ASTAIN PLACE, AT THE FOLKING FOR, AFTER CASTING, BE RETROTITED WAY A PLASMA ARC TORGH. AGROSS OR ALONG THE ROUTE OF THE 7" THE LOCATION OF EXSTRUCTURE AS CONTRACTOR SHALL ON HIS OWN INITIATIVE, LOCATE ALL RESTING LOCATED ALL RESTING LOCATE ALL RESTING LOCATED ALL RESTING TO THE START OF CONSTRUCTION.

B. COMPARTION HALL CALL MSS UTILITY AT (BUUJDSZ-7001 PRIOR TO THE STAY)

S. NO STRUCTURES OR TREES SHALL BE PERMITTED IN UTILITY EASTMENTS.

10. FINAL ACCEPTANCE OF WORK BY THE HANOVER COUNTY DEPARTMENT OF PUBLIC
UTILITIES SHALL NOT BE MADE UNTIL ALL WORK SHOWN ON THE APPROVED PLANS IS
COMPLETED.

11. TWO SETS OF AS—BUILT DRAWINGS FOR ANY PUBLIC UTILITIES CONSTRUCTED MUST
BE SUBMITTED TO THE HANOVER COUNTY DEPARTMENT OF PUBLIC UTILITIES PRIOR TO
FINAL ACCEPTANCE OF THE WORK BY THE COUNTY.

12. WAITER CONNECTIONS SHALL NOT BE BACKFILED PRIOR TO APPROVAL BY THE
HANOVER COUNTY DEPARTMENT OF PUBLIC UTILITIES.

HANOVER COUNTY DEPARTMENT OF PUBLIC UTILITIES.

13. ALL WATERLINES SHALL HAVE A MINIMUM OF 3.5' OF COVER.

14. TESTING NOTES:

PRESSURE:

PRESSURE: LEAKAGE SHALL NOT EXCEED THE MAXIMUM ALLOWABLE LEAKAGE SPECIFIED IN AWWA C 500. MINIMUM TEST PRESSURE SHALL BE 150 PSI.

BACTEROLOGICAL:

BACTEROLOGICAL:

TWO SAMPLES FOR BACTEROLOGICAL SAMPLING SHALL BE COLLECTED AT LEAST 24 HOUSS APART. IF CONTAMINATION IS INDICATED, THEN THE DISINFECTION PROCEDURE AND TESTING SHALL BE REPEATED UNTIL SATISFACTORY RESULTS ARE OBTAINED.

15. THE CHLORINE IN HEAMLY CHLORINATED WATER FLUSHED FROM MAINS NEEDS TO RENUTRIALIZE BEFORE DISINFANCE. CONTRACTIORS MUST PROVIDE COUPPIEDT FOR NEUTRALIZING HEAVILY CHLORINATED WATER FLUSHED FROM MAINS DURING CONSTRUCTION PROR TO DISCINGARROW THE WATER FLUSHED FROM MAINS DURING CONSTRUCTION PROR TO DISCINGARROW THE WATER FLUSHED FROM MAINS DURING

LANDSCAPING NOTES

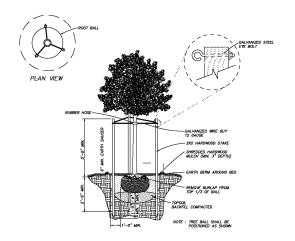
- PLANT MATERIAL SIZES ARE TO COMPLY WITH THE LATEST EDITION OF AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERYMEN.
- CONTRACTOR SHALL ASCERTAIN LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. PRIOR TO COMMENCING ANY WORK, CONTACT "MISS UTILITY" AT 1-800-552-7001.

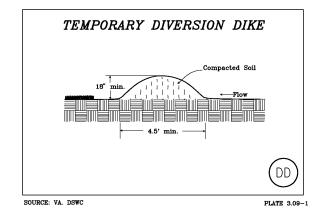
- ALL PLANT MATERIAL QUANTITY COUNTS ON THE PLAN ARE THE RESPONSIBILITY OF THE CONTRACTOR. PLANT LIST TOTALS ARE FOR CONVENIENCE ONLY AND SHALL BE VERIFIED PRIOR TO BIDDING.
- NO CHANGES TO PLANT SCHEDULE UNLESS FIRST APPROVED BY THE LANDSCAPE ARCHITECT OR HANOVER COUNTY PLANNING DEPARTMENT PLANS REVIEW SECTION.

PLANT MATERIALS LIST

10 YR CANOPY	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE OF MATERIAL			ROOT	REMARKS
				CALIPER	HEIGHT	SPREAD	TYPE	NEW/INIO
			FOUNDATION PLANTING					
250	2	ACER SACCHARUM	SUGAR MAPLE	3*	-	-	B.B.	-

NOTE: ALL DECIDOUS TREES TO HAVE BRANCHING NO CLOSER THAN 5' TO THE GROUND AND SHRUBS SHALL BE MAINTAINED AT 24' OR LESS

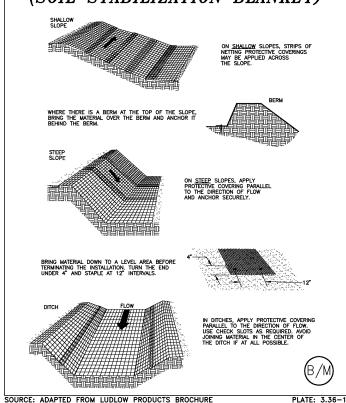




TEMPORARY SLOPE DRAIN

DECIDUOUS TREE PLANTING DETAIL

TYPICAL ORIENTATION OF TREATMENT - 1(SOIL STABILIZATION BLANKET)



SOURCE: ADAPTED FROM LUDLOW PRODUCTS BROCHURE

CITY OF ROANOKE VIRGINIA

REGIONAL WATER POLLUTION CONTROL PLANT

PROVIDE OUTLET STANDARD PLANED END SECT	TION
SECTION VIEW	
NOTE: SEDIMENT MAY BE CONTROLLED AT OUTLET IF UPLAND PON WILL CREATE PROBLEMS	DING
EARTHEN DIKE (COMPACTED) 3:1 D D SECTION A - A	D+6"
	TSD
OURCE: VA. DSWC	PLATE 3.15-1

DESIGNED __ CHECKED RECORD DRAWINGS CONSTRUCTION REGULATORY APPROVAL PROJ. ENGR. H&S ISSUED FOR

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY ROBERT S. DIFIORE, SEAL NO. 22769

THIS DOCUMENT ORIGINALLY ISSUED FOR CONSTRUCTION AND SEALED BY RONALD L. TAYLOR, SEAL NO. 024649

THIS DRAWING HAS BEEN MODIFIED TO REFLECT FIELD CHANGES REPORTED BY THE CONTRACTOR OR ANOTHER PARTY, BUT NOT VERIFIED BY THE CERTIFYING ENGINER. THIS DOCUMENT ORIGINALLY ISSUED AND SEALED BY DAVID A. NAILOR, 025465. THIS MEDIA SHALL NOT BE CONSIDERED A CERTIFIED DOCUMENT.

RECORD DRAWING

HAZEN AND SAWYER Environmental Engineers & Scientists 4011 WestChase Blvd, Raleigh, North Carolina 27607

WET WEATHER IMPROVEMENTS

THE SCALE BAR DATE JULY 2003 SHOWN BELOW H & S JOB MEASURES ONE INCH LONG ON THE ORIGINAL DRAWING.

30788A CONTRACT NUMBER DRAWING NUMBER D1