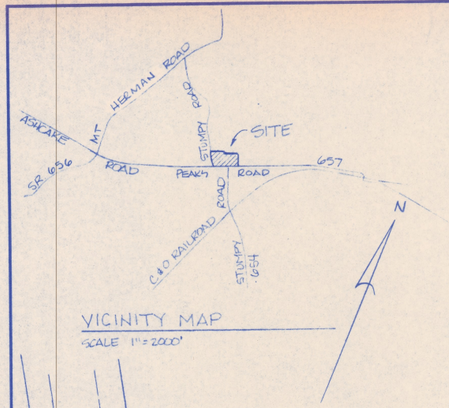
ENTRANCE AND TURN LANE NOTE

THE CONTRACTOR SHALL CONSTRUCT THE TWO ENTRANCES FROM PEAKS ROAD IN PHASE ONE OF THE PROJECT. THE TURN LANE LOCATED BETWEEN THE TWO ENTRANCES (SHOWN CROSSHATCHED) SHALL BE CONSTRUCTED WHEN THE NEXT ADDITION TO THE FACILITY IS CONSTRUCTED.



VICINITY MAP

SCALE 1" = 2000'

PERCENTAGE OF SITE DEVOTED TO THE FOLLOWING USES:

BUILDING	28,026 SF	10.9%
CONCRETE WALKS	6030 SF	2.3%
DRIVES & PARKING AREAS	52,337 SF	20.4%
PLAYGROUND/RECREATION AREAS	16,240 SF	6.3%
OPEN SPACE	153,586 SF	60.0%
TOTAL SITE AREA	256,220 SF	

NOTE: THE AREA OF THE SITE TO BE DISTURBED BY THE PROPOSED CONSTRUCTION IS NOT LOCATED WITHIN A CBPA AREA.

THE SITE IS NOT LOCATED IN THE HANOVER COUNTY GROWTH MANAGEMENT PHASED SUBURBAN DEVELOPMENT PLAN PER THE COUNTY VISION 2017 COMPREHENSIVE PLAN

THE SITE IS NOT LOCATED IN A FLOOD PLAIN AREA PER FIRM COMMUNITY PANEL # 510237 - 0320 A

THIS SITE IS NOT LOCATED IN THE OVERLAY RESERVOIR PROTECTION DISTRICT (ORP) PER LETTER FROM COUNTY ZONING ADMINISTRATOR

SITE SIGNAGE

① PAINTED HANDICAP SIGN

② PAINTED HANDICAP VAN ACCESSIBLE SIGN

③ VDOT "STANDARD" STOP SIGN

④ STANDARD "DO NOT ENTER" SIGN

⑤ VDOT "STANDARD" PAINTED 24" WIDE STOP BAR

SITE DATA

GPIN	8708-07-3335 & 7417
AREA	5.882 ACRES
ZONING	A-1 W/ C.U.P. # 16-00
OWNER	TRUSTEES, LEBANON UNITED METH. CH.
ADDRESS	8492 PEAKS ROAD
	HANOVER, VA 23069
TELEPHONE	746-4541
SANCTUARY SEATING CAPACITY	300
PARKING SPACES REQ'D (1 PER 4 SEATS)	75
PARKING SPACES PROVIDED	
PHASE I	82
PHASE II	20
TOTAL	102
BUILDING AREAS (FOOT PRINT)	
EXISTING STRUCTURES	7,979 SF
PHASE I ADDITION	11,172 SF
PHASE II ADDITION	8,875 SF
TOTAL BUILDING AREA	28,026 SF

CONDITIONAL USE PERMIT # CUP 2024 - 00003 (6-26-24)

CONDITIONAL USE PERMIT # 16-00 GRANTED ON NOV. 21, 2000.

VARIANCE # A-22-86 GRANTED ON JUNE 10, 1986

PROPOSED USE: CHURCH

LOADING SPACES REQ'D AND PROVIDED = 2

NOTE: ACCUMULATED TRASH SHALL BE STORED WITHIN THE CHURCH AND REMOVED PERIODICALLY. IF AN EXTERIOR TRASH DUMPSTER IS LOCATED ON THE SITE IN THE FUTURE THE DUMPSTER SHALL BE SCREENED IN ACCORDANCE WITH COUNTY REQUIREMENTS.

FILE

Re:

APPROVED
Deputy Director of Planning
Hanover County, Virginia
8/7/01
Date

APPROVED
Deputy Director of Planning
Hanover County, Virginia
7-9-01

7-09-01
ROBERT K. CARTER
CERTIFICATE NO. 11049
NONHOD CERTIFIED

JUL 11 2001
HANOVER COUNTY PLANNING SERVICE

GPIN: 7798-97-4218
ERNEST & BARBARA GOODMAN
ZONED: A-1
USE: RESIDENCE

ROD
N 68° 00' 00" E → 443.76'
EXIST WOODSLINE
NEW WOODSLINE
EXIST WOODSLINE
EXISTING DRAINAGE IRON CHANNEL
20' REAR YARD SETBACK LINE
S 23° 12' E 364.20'
S 19° 33' 56" E
NEW DRAINFIELD PER HEALTH DEPT. PERMIT # 00 142-0441
GPIN: 8708-18-5411
STANLEY B. CROSS
ZONED: A-1
USE: RESIDENCE/FARM
LIMITS OF CBPA
N 68° 00' 00" E → 313.84'
PIPE
POOL
EXIST. ONE-STORY BRICK DWELLING (TO REMAIN)
N 29° 55' 08" W
138'
317.74'
24' 18' 5' 29'
35'R
PAINTED TRAFFIC ARROWS
500'R
24'
10'R
5'R
NEW VDOT CG-11 PAVED ENTRANCE (PHASE II)
NEW ENTRANCE (PHASE II)
EXIST. WOODED AREA TO BE REMOVED FOR CONSTRUCTION OF NEW STORM SEWER SEE SHEET 3
EXIST. GRAVEL DRIVE
NEW GRAVEL PARKING AREA (PHASE II)
50'R
EAVE HEIGHT = 20'
PHASE II ADDITION
FIN FL ELEV 100.00
NEW FENCED PLAYGROUND (4' HEIGHT)
REAR YARD SETBACK LINE
20'
8
RMA
EXISTING CEMETARY
APPROX. LOCATION OF EXIST. DRAINFIELD
S 23° 12' E
NEW ADDITION (SEE ARCH. PLANS)
FINISH FLOOR ELEVATION 100.00
SEE NOTE 3 ON SHEET 5
EAVE HEIGHT = 20'
BUILDING SETBACK LINE
EXIST. ONE STORY CHURCH FINISH FLOOR ELEV. 100.00 (ASSUMED)
EAVE HEIGHT = 10'
EAVE HEIGHT 14'
EXIST. ONE-STORY BUILDING
EAVE HEIGHT = 12'
EXIST. EXT. LIGHT (REMOVE)
REMOVE EXIST. EXT. LIGHT
APPROX. LOCATION OF EXIST. WATER LINE. SEE NOTE 7 ON SHEET 5.
EXIST PUMP HOUSE & WELL (TO REMAIN)
EXIST CONC WALK
NEW CONCRETE WALKS
"PRIMARY DROP-OFF"
"OPTIONAL DROP OFF"
75'R
2 TEMPORARY PARKING SPACES (PHASE I)
PHASE II
PHASE I
16' x 35' LOADING SPACE
8' WIDE HDCP ACCESSIBLE AISLE
REMOVE EXIST LIGHT & TREES
PAINT VERTICAL LINE ON FACE OF CURB TO MARK PARKING SPACES
EXIST. YARD LIGHT (REMOVE)
EXIST POWER POLE
EXISTING DRAINAGE CHANNEL
EXIST ONE-STORY BRICK DWELLING (REMOVE)
NEW GRAVEL PARKING AREA (PHASE I)
WHEEL STOPS, TYP OF 74 (58 PHASE I, 16 PHASE II)
FUTURE R/W LINE
PAINTED TRAFFIC ARROWS
PROPOSED 30' WIDE DRAINAGE EASEMENT DB. 1697 PG. 232
APPROX. LOCATION OF RELOCATED TELEPHONE PEDESTAL
PAINTED TRAFFIC ARROWS (TYP.)
RELOCATE EXIST. TELE. PED.
48' TAPER
EXIST. SIGN
RELOCATE EXIST. TELE. PED.
S 68° 00' 03" W 709.41'
IRON
PEAKS ROAD ROUTE 672
361.91
SPEED LIMIT 45 MPH
SIGHT DISTANCE = 600'±
INV 96.47
EXIST 12" CMP CULVERT
NEW VDOT CG-11 PAVED ENTRANCE
12' WIDE PAVED RIGHT TURN LANE (SEE NOTE ABOVE)
NEW VDOT CG-11 PAVED ENTRANCE
40'
STUMPY ROAD ROUTE 632
SPEED LIMIT 35 MPH
231.74'
3200'± TO SR 656
50' R/W

GPIN: 7798-97-9120
HERBERT & RUBY BAKER
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-5719
LOIS MCGHEE
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-4814
ROBERT MILLIKEN
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-5920
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-07-6008
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

SIGHT DISTANCE 600'±

GPIN: 8708-07-8197
JOHN & MYRTLE LOVING
ZONED: A-1
USE: RESIDENCE

SIGHT DISTANCE 600'±

SIGHT DISTANCE 600'±

GPIN: 8708-17-2025
LEBANON UNITED METHODIST CHURCH
ZONED: A-1
USE: RESIDENCE

SPR 8-01

REVISIONS	BY
MAR. 30, 2001	ckc
JUNE 11, 2001	ckc
JULY 31, 2001	ckc

SITE LAYOUT PLAN

ROBERT K. CARTER, P.E.
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374, Fax 746-0539

Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

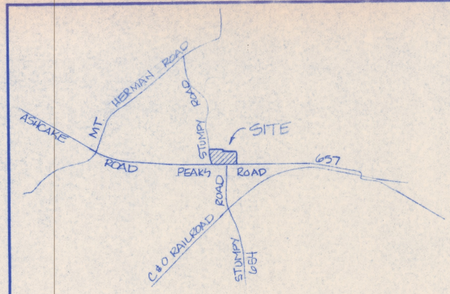
Date DEC. 7, 2000
Scale 1" = 30'
Drawn ND/ckc
Job
Sheet 1
of 7 Sheets

LEGEND

ITEM	EXISTING	NEW
LANDSCAPING TREES		
WOODSLINE		
LIGHT POLE		

SITE DATA

GPIN	8708-07-3335 & 7417
AREA	5.882 ACRES
ZONING	A-1
OWNER	TRUSTEES, LEBANON UNITED METH. CH.
	8492 PEAKS ROAD
	HANOVER, VA 23069
TELEPHONE	746-4541



VICINITY MAP
SCALE 1" = 2000'

GPIN: 7798-97-4218
ERNEST & BARBARA EDDMAN
ZONED: A-1
USE: RESIDENCE

GPIN: 7798-97-9120
HERBERT & RUBY PARKER
ZONED: A-1
USE: RESIDENCE

POB
N 68° 00' 00" E
443.76'
EXIST. WOODSLINE
POB
NEW WOODSLINE
POOL
EXIST. ONE-STORY BRICK DWELLING
4" MAPLE
REMOVE EXISTING TREES ALONG EXISTING DITCH
56.20'
S 14° 33' 56" E
15" PINE
21" PINE
N 68° 00' 00" E
313.84'
PIPE
14" PINE
42" OAK
318.01'
S 73° 12' E
EXISTING CEMETARY
GPIN: 8708-18-5411
STANLEY B. CROSS
ZONED: A-1
USE: RESIDENCE/ FARM
NEW "VERSALUX" #VR5-111-400M11 EXTERIOR LIGHT MOUNTED ON 20' HIGH POLE (TYPICAL OF 8)
(6) PHASE I
(2) PHASE II
PHASE II ADDITION
NEW ADDITION PHASE I
EXIST. ONE STORY CHURCH FINISH FLOOR ELEV. 100.00 (ASSUMED)
EXIST. ONE-STORY BUILDING
EXIST PUMP HOUSE & WELL
REMOVE EXIST. EXT. LIGHTS
REMOVE EXIST LIGHT
REMOVE EXIST LIGHT
8" PEAR
40" OAK
21" MAPLE
EXIST GRAVEL DRIVE
PHASE II
PHASE I
EXIST ONE-STORY BRICK DWELLING
0.5 fc LIGHT SPREAD
0.5 fc LIGHT SPREAD
24" MAPLE
12" MAGNOLIA
12" MAGNOLIA
LANDSCAPING TREES. SPECIES SHALL BE A MIXTURE OF TREES AS FOUND IN THE HANOVER COUNTY LANDSCAPING ORDINANCE. TREES SHALL BE LIMBED TO A HEIGHT OF 5'. TREES MAY BE 1" CALIPER OR GREATER
IRON
PIPE
INV 96.47
EXIST 12" CMP CULVERT
30' R/W

GPIN: 8708-06-3719
LOIS MCGHEE
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-4814
ROBERT MILLIKEN
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-9720
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-07-0005
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-27-8977
JOHN & MYRTLE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-17-2025
LEBANON UNITED METHODIST CHURCH
ZONED: A-1
USE: RESIDENCE

SPR 8-01

REVISIONS	BY
MAR. 30, 2001	JW

LIGHTING AND LANDSCAPING PLAN

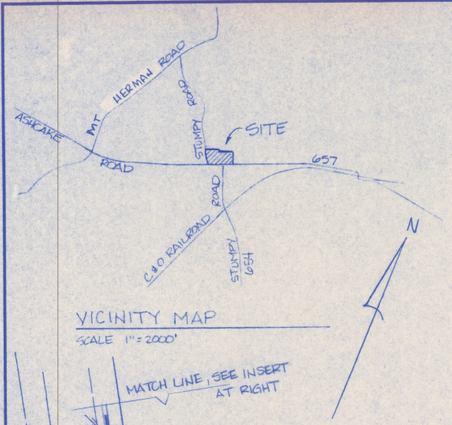
ROBERT K. CARTER, P.E.
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374 Fax 746-0539

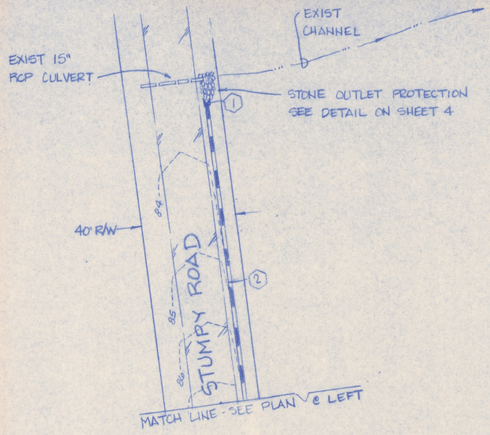
Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

Date DEC. 7, 2000
Scale 1" = 30'
Drawn ND/RKC
Job
Sheet 2
Of 7 Sheets

VICINITY MAP

SCALE 1" = 2000'





DRAINAGE ITEMS

1. 24" FLARED END SECTION
2. 220 L.F. 24" HDPE PIPE @ 2.70 %
3. VDOT DI-5 DROP INLET
   TOP 91.60
   INV 24" IN 86.72
   INV 24" OUT 86.62
4. 180 L.F. 24" HDPE PIPE @ 1.20 %
5. VDOT DI-5 DROP INLET
   TOP 97.60 INV. 15" IN. 89.71
   INV 24" IN 89.05
   INV 24" OUT 88.95
6. 82 L.F. 24" HDPE PIPE @ 0.80%
7. VDOT MH-1 MANHOLE
   TOP 98.9
   INV 24" IN 89.81
   INV 24" OUT 89.71
8. 86 L.F. 24" HDPE PIPE @ 0.80%
9. VDOT DI-5 DROP INLET
   TOP 97.00
   INV 24" IN 90.60
   INV 24" OUT 90.50
10. 200 L.F. 24" HDPE PIPE @ 0.50%
11. 24" FLARED END SECTION
11A. 24" FLARED END SECTION
12. 40 L.F. 24" HDPE PIPE @ 0.50%
13. VDOT DI-1 DROP INLET
    TOP 97.0
    INV 24" IN 93.70
    INV 15" IN 94.35
    INV 24" OUT 93.60
14. 40 L.F. 15" HDPE PIPE @ 1.00%
15. 16 L.F. 24" CL III RCP @ 0.50% (SEE NOTE ON SHEET 4)
16. 15" FLARED END SECTION - INV. 94.75
17. 15" FLARED END SECTION - INV. 96.00
18. 34 L.F. 15" HDPE PIPE @ 13.5%
19. PVC ROOF DRAIN PIPE

SITE DATA

GPIN	8708-07-3335 & 7417
AREA	5.882 ACRES
ZONING	A-1
OWNER	TRUSTEES, LEBANON UNITED METH. CH. 8492 PEAKS ROAD HANOVER, VA 23069
TELEPHONE	746-4541

LEGEND

ITEM	EXISTING	NEW
PROPERTY LINE		
EDGE OF PAVEMENT		
CONTOUR	--96--	98
STORM SEWER		
SPOT GRADE		+ 79.3
DRAINAGE ITEM		(21)
ROOF DRAIN PIPE		RD

GPIN: 7796-97-4218
ERNEST & BARBARA GOODMAN
ZONED: A-1
USE: RESIDENCE

ROUTE 654

N 68° 00' 00" E 443.76'

EXIST. WOODSLINE

POOL

EXIST. ONE-STORY BRICK DWELLING

NEW SEWAGE DISPOSAL DRAINFIELD PER PERMIT # 00-142-0441

NEW SPLITTER BOX

GPIN: 8708-18-5411
STANLEY B. CROSS
ZONED: A-1
USE: RESIDENCE/FARM

LIMITS OF RMA

N 68° 00' 00" E 213.84'

NEW PUMPING CHAMBER

PHASE II ADDITION
FIN FL ELEVATION 100.00

NEW SEPTIC TANKS

DOWNSPOUT LOCATIONS (TYPICAL)

NEW ADDITION (PHASE I)
FIN. FL. ELEVATION 100.00
(SEE NOTE 3 ON SHEET 5)

EXIST. ONE STORY CHURCH
FINISH FLOOR ELEV.
100.00 (ASSUMED)

EXIST. ONE-STORY BUILDING

EXISTING CEMETARY

RMA

EXIST. PUMP HOUSE & WELL

EXIST. DRAINAGE CHANNEL TO EXISTING POND

5' DRAINAGE EASEMENT

NEW DRILLED WELL (PHASE II)

NEW 1 1/4" WATER LINE (PHASE I)

EXIST. ONE-STORY BRICK DWELLING

EXISTING BORED WELL. INSTALL NEW 3/4 HP WELL PUMP FOR PHASE I (REMOVE/CAP (PHASE II)

FUTURE R/W LINE

30' DRAINAGE EASEMENT DB 104 PG 232

PHASE I

PHASE II

TOP OF WALK 98.8

TOP OF WALK 98.5

TOP OF WALK 98.5

EDGE OF EXISTING GRAVEL AREA

STONE OUTLET PROTECTION

NEW GRASS DITCH @ 1.00%

NEW GRASS CHANNEL @ 1.00%

NEW RIGHT TURN LANE SEE SECTION ON SHEET 4

EXIST 12" CMP CULVERT

INV 96.47

INV 96.14

STUMPY ROAD

PEAKS ROAD

ROUTE 657

GPIN: 7796-97-9120
HERBERT & RUBY BAKER
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-8719
LOIS MCGHEE
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-4814
ROBERT MILLIKEN
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-06-5920
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-07-6008
HERBERT & JOYCE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-07-8197
JOHN & MYRTLE LOVING
ZONED: A-1
USE: RESIDENCE

GPIN: 8708-17-2025
LEBANON UNITED METHODIST CHURCH
ZONED: A-1
USE: RESIDENCE

SPR 8-01

REVISIONS	BY
MAR. 30, 2001	

GRADING, DRAINAGE, SEWAGE DISPOSAL AND WATER LINE PLAN

ROBERT K. CARTER, PE
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374 Fax 746-0539

Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

Date DEC. 7, 2000
Scale 1" = 30'
Drawn ND/RKC
Job
Sheet 3
Of 7 Sheets

SITE

PEAKS ROAD 657

C & O RAILROAD

STUMPY WASH

VICINITY MAP
1" = 2000'

MATCH LINE SEE INSERT AT RIGHT

EXIST 15" RCP CULVERT

STONE OUTLET PROTECTION SEE DETAIL ON SHEET 4

40' R/W

STUMPY ROAD

MATCH LINE - SEE PLAN & LEFT

(1) 24" FLARED END SECTION

(2) 220 L.F. 24" HDPE PIPE @ 2.70 %

(3) VDOT DI-5 DROP INLET
TOP 91.60
INV 24" IN 86.72
INV 24" OUT 86.62

(4) 186 L.F. 24" HDPE PIPE @ 1.20%

(5) VDOT DI-5 DROP INLET
TOP 97.6
INV 24" IN 89.05
INV 24" OUT 88.95

(6) 82 L.F. 24" HDPE PIPE @ 0.80%

(7) VDOT MH-1 MANHOLE
TOP 98.9
INV 24" IN 89.81
INV 24" OUT 89.71

(8) 86 L.F. 24" HDPE PIPE @ 0.80%

(9) VDOT DI-5 DROP INLET
TOP 97.00
INV 24" IN 90.60
INV 24" OUT 90.50

(10) 200 L.F. 24" HDPE PIPE @ 0.80%

(11) 24" FLARED END SECTION

(11A) 24" FLARED END SECTION

(12) 40 L.F. 24" HDPE PIPE @ 0.50%

(13) VDOT DI-1 DROP INLET
TOP 97.0
* INV 12" IN 95.92
INV 15" IN 94.35
INV 24" OUT 93.60
* CAST OPENING IN INLET FOR 24" PIPE @ INVERT ELEV 93.85 BRICK UP OPENING

(14) 40 L.F. 15" HDPE PIPE @ 1.00%

(15) 16 L.F. 24" RCP @ 0.50%

(16) 15" FLARED END SECTION - INV. 94.75

(17) 15" FLARED END SECTION - INV. 96.00

(18) 34 L.F. 15" HDPE PIPE @ 1.85%

(19) PVC ROOF DRAIN PIPE

AREA 5.882 ACRES
ZONING A-1
OWNER TRUSTEES, LEBANON UNITED METH. CH.
8492 PEAKS ROAD
HANOVER, VA 23069
TELEPHONE 746-4541

STUMPY ROAD 654

SITE

PEAKS ROAD

BEAVERDAM DIST. LINE

ASHLAND DIST. LINE

657
7.08 Ac

WEHM LANE

LIMITS OF

GPIN: 8708-18-5411
STANLEY B. CROSS
ZONED: A-1
USE: RESIDENCE FARM

N 68

N 68° 00' 00" E 443.76'

EXIST WOODSLINE

IRON

POOL

EXIST ONE-STORY DWELLING

0.44 ACRES

NEW SEWAGE DISPOSAL DRAINFIELD PER PERMIT # 00-142-0441

NEW SPLITTER BOX

NEW PUMPING CHAMBER

PHASE II ADDITION
FIN FL ELEVATION 100.00

NEW SEPTIC TANKS

DOWNSPOUT LOCATION (TYPICAL)

0.60 ACRES

NEW ADDITION (PHASE I)
FIN. FL. ELEVATION 100.00
(SEE NOTE 3 ON SHEET 5)

EXIST. ONE STORY CHURCH
FINISH FLOOR ELEV.
100.0± (ASSUMED)

EXIST. ONE STORY BUILDING

EXISTING CEMETARY

RMA

EXIST PUMP HOUSE & WELL

5' DRAINAGE EASEMENT

NEW DRILLED WELL

EXIST ONE STY BR DWELLING

NEW 1"Ø WATER LINE

PHASE II
PHASE I

TOP OF WALK 98.5

TOP OF WALK 98.5

TOP OF WALK 98.5

EDGE OF EXISTING GRAVEL AREA

EXIST. DRAINAGE CHANNEL TO EXISTING POND

PHASE I
1.37 ACRES

0.29 ACRES

1.03 ACRES
PHASE I

FUTURE R/W LINE

30' DRAINAGE EASEMENT

NEW GRASS DITCH @ 1.00%

NEW GRASS CHANNEL @ 1.00%

0.06 Ac

PIPE

NEW RIGHT TURN LANE
SEE SECTION ON SHEET 4

ROUTE 657

GPIN: 8708-17-2025

STUMPY ROAD

PEAKS ROAD

INV 96.14

OFF-SITE DRAINAGE AREA MAP
SCALE 1" = 200'

SEE SHEET 5 FOR DRAINAGE CALCULATIONS

COMMONWEALTH OF VIRGINIA
7-9-01
I. [illegible]
CERTIFICATE NO. 5080
Professional Engineer

ROBERT K. CARTER, PE
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374 Fax 746-0539

DRAINAGE ANALYSIS PLAN

Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

Date DEC. 7, 2000
Scale 1" = 30'
Drawn ND/RKC
Job
Sheet

FINE GRADE, SEED AND MULCH SIDES OF NEW DITCH AND ALL DISTURBED AREAS

SECTION - NEW DITCH LINE ALONG STUMPY ROAD

APPROX. EXIST GRADE
RECONSTRUCT EXIST. DITCH PER SECTION @ LEFT

EDGE OF EXIST. PAVEMENT ALONG EAST SIDE OF STUMPY ROAD

VDOT DI-5 TOP 91.60

VDOT DI-5 TOP 89.6

VDOT MH-1 TOP 98.9

VDOT DI-5 TOP 97.0

APPROX. EXIST GRADE

NEW FIN. GRADE

1.0%

H.G.L.

EDGE OF EXIST PAVEMENT ALONG NORTH SIDE OF PEAKS ROAD

VDOT E5-1 FLARED END SECTION

VDOT E5-1 FLARED END SECTION

15" CULVERT IN INV 94.35 SEE PROFILE BELOW

VDOT DI-1 MODIFY FOR DEPTH TOP 97.0

℄ PEAKS ROAD

APPROX. LOCATION OF TELEPHONE CABLE. (RELOCATE)

OUTLET PROTECTION STONE (SEE DETAIL ON SHEET 5)

Q_2 = 14 CFS V_2 = 2.3 FPS D_2 = 15"

Q_{10} = 18.5 CFS V_{10} = 2.5 FPS D_{10} = 20"

* H.G.L IS HIGHER THAN COMPUTED FLOW DEPTH

L_a = 8' D_{50} = 0.3'

EXIST 12" CMP TO BE REPLACED BY VDOT W/ 24" PIPE.

16 L.F. 24" CL III RCP @ 0.50%. VDOT WILL FURNISH PIPE. CHURCH CONTRACTOR SHALL CALL VDOT OFFICE @ 752-5511 TO OBTAIN PIPE, TRANSPORT PIPE TO SITE AND INSTALL PIPE AS SHOWN. CONTRACTOR SHALL NOTIFY VDOT WHEN PIPE IS INSTALLED.

SEE PROFILE BELOW

MATCH LINE

INV 24" OUT 86.62
INV 24" IN 86.72

INV 24" OUT 88.95
INV 24" IN 89.05

INV 24" OUT 89.71
INV 24" IN 89.81

INV 24" OUT 90.50
INV 24" IN 90.60

INV IN 24" 92.20

INV 24" 93.40

INV 24" OUT 93.60
INV 24" IN 93.70
INV 24" 93.78

220 L.F. 24" HDPE PIPE @ 2.70% (2)

186 L.F. 24" HDPE PIPE @ 1.20% (4)

82 L.F. 24" HDPE PIPE @ 0.80% (6)

86 L.F. 24" HDPE PIPE @ 0.80% (8)

200 L.F. 24" HDPE PIPE @ 0.80% (10)

120 L.F. GRASS DITCH @ 1.00% SEE SECTION BELOW

40 L.F. 24" HDPE PIPE @ 0.50% (12)

100 / 90 / 80 / 70

PROFILE - STORM SEWER ALONG PEAKS ROAD & STUMPY ROAD
SCALE 1" = 30' HORIZONTAL 1" = 5' VERTICAL

VDOT DI-1 MODIFY FOR DEPTH TOP 97.0

NEW ENTRANCE

Q_2 = 3.3 CFS V_2 = 1.9 FPS D_2 = 9"

Q_{10} = 4.44 CFS V_{10} = 2.2 FPS D_{10} = 11"

APPROX. EXIST GRADE

NEW ENTRANCE (EAST)

NEW FINISH GRADE

H.G.L.

1.0%

15" FLARED END SECTION (14)

NEW GRASS DITCH @ 1.00% SEE SECTION BELOW

24" HDPE PIPE SEE PROFILE ABOVE FOR CONTINUATION

INV OUT 93.60
INV IN 94.35 (14)

INV 94.75

40 L.F. 15" HDPE PIPE @ 1.00%

100 / 90

PROFILE - NEW STORM SEWER AND DITCH ALONG PEAKS ROAD SCALE 1" = 30' HOR 1" = 5' VERT

VDOT E5-1 FLARED END SECTION (1)

EDGE OF EXIST PAVEMENT ALONG STUMPY ROAD

"C"

24" FLARED END SECTION

H.G.L.

EXIST 15" RCP UNDER STUMPY ROAD INV 80.44

GRADE OF EXIST CHANNEL TO POND

Q_{10} = 22.9 CFS
D_{10} = 2.0' H.G.L. = 0.3%
V_{10} = 1.6 FPS

FILTER CLOTH REQUIRED UNDER STONE

OUTLET PROTECTION STONE, SEE DETAIL BELOW

MATCH LINE - SEE PROFILE ABOVE

INV. 80.68

220 L.F. 24" HDPE PIPE @ 2.70% (2)

16 L.F. RIP RAPPED CHANNEL @ 0.0% (SEE SECTION @ LEFT)

90 / 85 / 80

FILTER CLOTH REQ'D UNDER STONE

VDOT CLASS I RIP RAP STONE

SECTION - RIP RAP CHANNEL

NOTE SEE SHEET 5 FOR DRAINAGE AREA MAP OF 32 ACRE DRAINAGE AREA

DA = 32 Acres
C = 0.4
Q_{10} = 52 CFS
V_{10} = 1.3 FPS
D_{10} = 18"

EDGE OF EXIST PAVEMENT (STUMPY ROAD)

Q_{10} WATER LEVEL (ELEV. 83.8)

EXIST GRADE

SECTION "C" - EXIST. CHANNEL FROM STUMPY ROAD TO POND

EXIST CHANNEL TO EXIST. POND

EXTEND RIPRAP STONE UP EXIST CHANNEL ON NORTH SIDE OF CULVERT

VDOT CLASS I RIP RAP STONE

24" FLARED END SECTION (1)

NEW 24" HDPE PIPE (2)

EDGE OF EXIST. PAVEMENT

EXIST 15" RCP UNDER STUMPY ROAD

STUMPY ROAD

L_a = 16' D_{50} = 1.7'

PLAN - OUTLET PROTECTION STONE

EXIST R/W LINE

EXISTING 30' R/W

30' DRAINAGE EASEMENT

5'

FUTURE R/W LINE

℄ PEAKS ROAD

9.9' ±

NEW 12' WIDE RIGHT TURN LANE

5' GRAVEL SHOULDER

APPROX. EXIST. GRADE

1/4" : 1'

EXIST DITCH (SOUTH SIDE)

EXIST PAVEMENT

SURFACE COURSE 2" VDOT SM-2A

BASE COURSE 8" VDOT TYPE I SIZE 21-B CRUSHED AGGREGATE

WELL COMPACTED SUBGRADE

6" #5 GRAVEL

NEW GRASS DITCH DEPTH VARIES (SEE PROFILE ABOVE)

TYPICAL SECTION - NEW RIGHT TURN LANE ALONG PEAKS ROAD

COMMONWEALTH OF VIRGINIA ROBERT K. CARTER CERTIFICATE NO. 8080 PROFESSIONAL ENGINEER

SPR 8-01

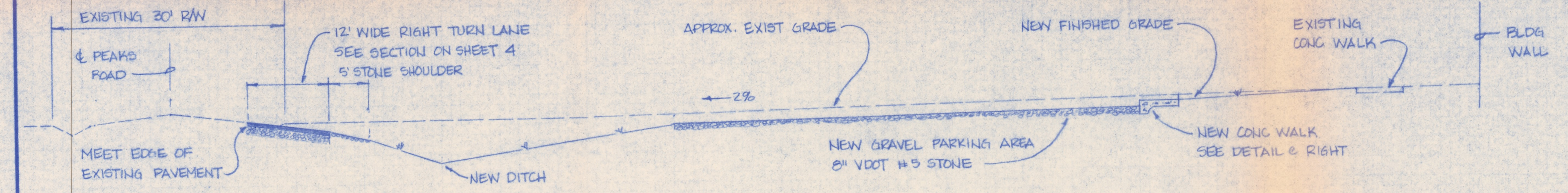
REVISIONS	BY
MAR 30, 2001	RKC

STORM SEWER PROFILES
NOTES AND DETAILS

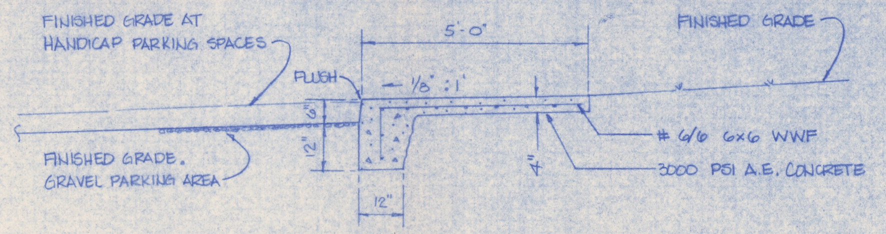
ROBERT K. CARTER, P.E.
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Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

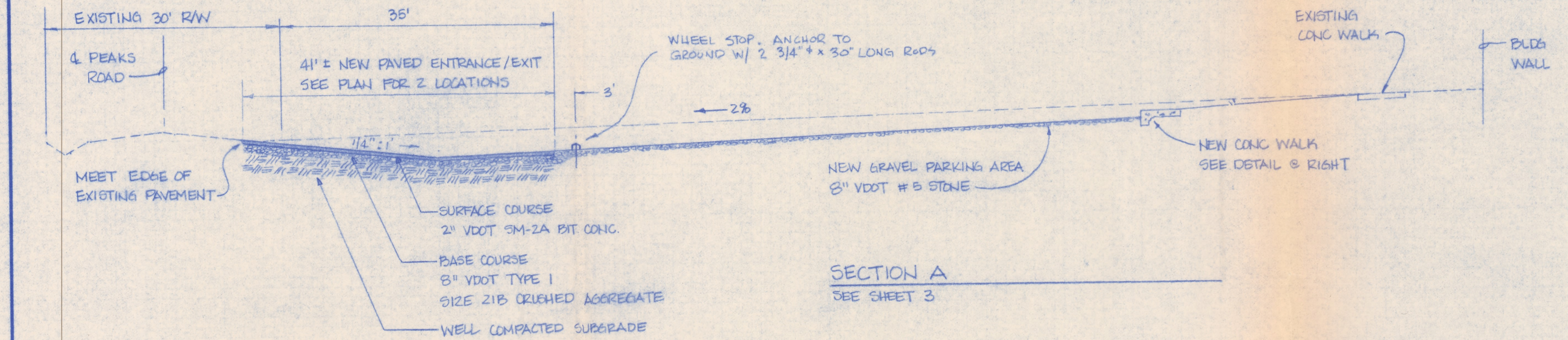
Date DEC 7, 2000
Scale AS NOTED
Drawn ND/RKC
Job
Sheet 4
Of 7 Sheets



SECTION B
SEE SHEET 3



DETAIL- MONOLITHICALLY POURED CONCRETE WALK



SECTION A
SEE SHEET 3

NOTES

1. PROPERTY LINE DATA TAKEN FROM DEEDS AND PLATS AS RECORDED IN DEED BOOK 1120 PAGE 229, DEED BOOK 612 PAGE 89, DEED BOOK 182 PAGE 178 AND PLAT BOOK 24 PAGE 181, #1.

2. PRIOR TO ANY CONSTRUCTION, CONTRACTOR SHALL HAVE NEW BUILDING CORNERS ESTABLISHED PER CURRENT ARCHITECTURAL PLANS AND SHALL HAVE A CERTIFIED SURVEYOR DETERMINE THAT THE NEW BUILDING WILL NOT ENCROACH WITHIN THE 100 ' FRONT YARD SETBACK AS MEASURED FROM THE ULTIMATE RIGHT OF WAY LINE OF PEAKS ROAD. SAID ULTIMATE RIGHT OF WAY IS 100 FEET IN WIDTH PER HANOVER COUNTY MAJOR THOROUGHFARE PLAN. CONTRACTOR SHALL NOTIFY ARCHITECT AND ENGINEER IF BUILDING ENCROACHES WITHIN SAID SETBACK.

3. FINISHED FLOOR ELEVATION OF NEW BUILDING SHALL MATCH FLOOR ELEVATION OF EXISTING ADJACENT BUILDING AT POINT OF CONNECTION THERETO. ELEVATION OF SAID BUILDING IS "ASSUMED" ELEVATION OF 100.00.

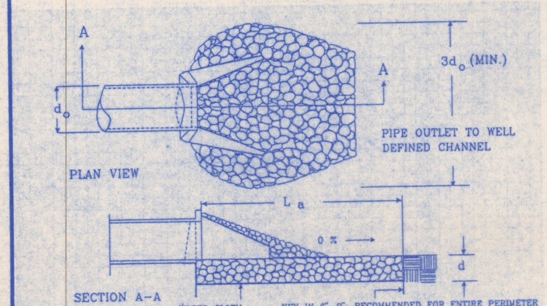
4. TOPOGRAPHIC INFORMATION TAKEN FROM TOPOGRAPHIC MAP PREPARED BY GENE WATSON AND ASSOCIATES, PC DATED SEPTEMBER 20, 1999.

5. DEDICATION OF LAND FOR ULTIMATE RIGHT OF WAY WIDTH OF STUMPY ROAD (STATE ROUTE 654) AND PEAKS ROAD (STATE ROUTE 657) SHALL BE ACCOMPLISHED WHEN REQUESTED BY HANOVER COUNTY PER CONDITION #4 OF CONDITIONAL USE PERMIT #16-00 AS REFERENCED ON THIS SHEET. DRAINAGE EASEMENTS FOR IMPROVEMENTS TO PEAKS ROAD AND STUMPY ROAD SHALL BE DEDICATED TO THE COMMONWEALTH OF VIRGINIA.

6. LOCATION AND CONSTRUCTION OF NEW WELL AND NEW SEWAGE DISPOSAL SYSTEM SHALL BE IN ACCORDANCE WITH HEALTH DEPARTMENT PERMIT IDENTIFICATION NUMBER 00-142-0441.

7. THE EXACT LOCATION OF THE EXISTING WATER LINE ALONG THE EASTERN PROPERTY LINE FROM THE EXISTING WELL TO THE EXISTING CHURCH IS UNKNOWN. THE LOCATION SHOWN IS APPROXIMATE ONLY. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS NECESSARY TO PROTECT SAID WATER LINE WHILE PERFORMING WORK IN THE AREA OF THE WATER LINE. THE CONTRACTOR SHALL INSTALL A NEW 4" WELL PUMP IN THE EXISTING BORED WELL LOCATED NEAR THE EXISTING HOUSE ON THE WESTERN SIDE OF THE PROPERTY AND CONSTRUCT A NEW WATER LINE TO THE NEW BUILDING ADDITION AS SHOWN ON SHEET 3. A NEW WELL SHALL BE DRILLED WHEN PHASE II IS CONSTRUCTED OR AT SUCH TIME AS AN ADDITIONAL POTABLE WATER SUPPLY IS REQUIRED FOR THE FACILITY. THE EXISTING BORED WELL SHALL BE ABANDONED WHEN THE NEW WELL IS DRILLED AS NOTED ON THE PLAN.

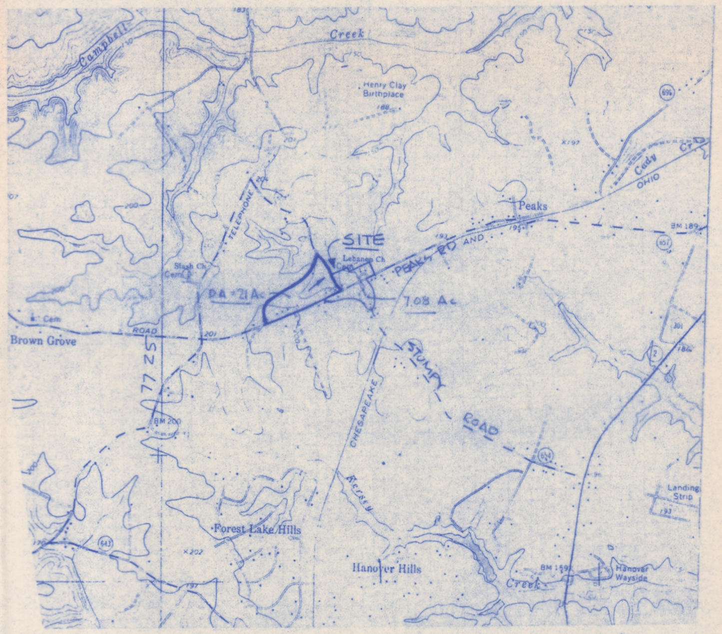
8. THE CONTRACTOR SHALL NOTIFY THE HANOVER COUNTY DEPARTMENT OF PUBLIC WORKS AT TELEPHONE # 365-6181 48 HOURS PRIOR TO COMMENCEMENT OF ANY LAND DISTURBING ACTIVITIES.



NOTES: 1. APRON LINING MAY BE RIPRAP, GROUTED RIPRAP, GABION BASKET, OR CONCRETE.
2. L_a IS THE LENGTH OF THE RIPRAP APRON AS CALCULATED USING PLATES 3.18-3 AND 3.18-4.
3. d = 1.5 TIMES THE MAXIMUM STONE DIAMETER, BUT NOT LESS THAN 6 INCHES.

DETAIL - STONE OUTLET PROTECTION

LOCATION - STR # 11-A & STR #1



OFF SITE DRAINAGE AREA MAP SCALE 1"=2000'
SEE SHEET 3A FOR LARGER SCALE MAP
NOTE: TOTAL DRAINAGE AREA AT STUMPY ROAD (WEST) CULVERT IS 32 ACRES.

CONDITIONS OF APPROVAL OF CUP 16-00

At their meeting of November 21,2000, the Hanover County Board of Supervisors, on a motion by Mr. Stanley, seconded by Mr. Gordon, voted to **APPROVE** the above-captioned request for a Conditional Use Permit for an expansion to an existing church on GPINs 8708-07-3335 and 8708-07-7417, subject to the following conditions:

1. The Property which is subject of the application shall be used only for a church facility and shall be developed in substantial conformance with the sketch plan, titled "Addition to Facilities of Lebanon United Methodist Church," prepared by Robert K. Carter, P.E., dated June 21, 2000, and revised October 27, 2000.

2. A site plan prepared in accordance with the requirements of Article 7, Section 6, of the Hanover County Zoning Ordinance shall be submitted for review and approval. The site plan shall incorporate all conditions of approval, and the conditions shall be shown on the plan.

3. The existing single family dwellings shall be removed or used as an accessory to the church and not as single family dwellings.

4. The Owner shall reserve thirty-five (35) feet of right-of-way along Peaks Road (State Route 657) and five (5) feet of right-of-way along Stumpy Road (State Route 654), to be dedicated upon request of the County, free of cost, and free of encumbrances interfering with the use for road purposes.

5. All existing and future lighting shall comply with the requirements of Article 7, Section 1.4-7.

6. All requirements of the Virginia Department of Transportation, Public Works Department, Health Department, and Building Inspectors' Office shall be met.

7. All development and use of the property shall comply with all federal, State and local statutes, ordinances and regulations.

You cannot begin to use the property under these conditions until you have filed, with this office, a Final Site Plan under the provisions of Title I., Article 7, Section 6, of the Hanover County Zoning Ordinance which complies with the conditions of approval.

Approval of the Final Site Plan from this office is your authorization to proceed to file building permits or other construction permits to initiate the requested change.

STORM SEWER DESIGN COMPUTATIONS

L & D 229

FROM POINT	TO POINT	AREA DRAIN. "A" ACRES	RUN-OFF COEF. C	CA INCRE-MENT	CA ACCUM-ULATED	INLET TIME MIN-UTES	RAIN FALL IN./HR	RUNOFF Q C.F.S.	INVERT ELEVATIONS UPPER END	INVERT ELEVATIONS LOWER END	LENGTH FT.	SLOPE FT./FT.	DIA. IN.	CAPA-CITY C.F.S.	VEL. F.P.S.	FLOW TIME SEC.	REMARKS
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)	(17)	(18)
15	13	7.08	0.4	2.83	2.83	23	4.2	11.90	93.78	93.70	16	.0050	24	17.0			
13	11	1.03	0.72	0.74	3.57	23	4.2	15.30	93.60	93.40	40	.0050	24	17.0	4.9	56	
11	9	1.37	0.68	0.93	4.50	23.8	4.10	18.50	92.20	90.60	260	.0080	24	22.0	5.9	34	
9	7	0.29	0.80	0.23	4.73	24.0	4.10	19.50	90.50	89.81	86	.0080	24	22.0	6.2	14	
7	5	0						19.50	89.71	89.05	82	.0080	24	22.0	6.2	13	
5	3	0.60 0.07	0.80	0.54	5.27	24	4.10	21.6	88.95	86.72	186	.0120	24	27.0	6.9	27	
3	1	0.44	0.70	0.31	5.58	24	4.10	22.9	86.62	80.68	220	.0270	24	40.0	15.0	~	
17	5	0.60	0.8	0.48	0.48	10	6.0	2.88	96.0	89.70	34	.185	15"	7.0	6.5	—	HW/D=0.8
16	13	1.03	0.72	0.74	0.74	10	6.0	4.44	94.75	94.35	40	.0100	15	7.0	6.5	—	HW/D=1.1

HYDRAULIC GRADE CALCULATIONS

INLET STATION	Outlet Water Surface Elev.	D_o	Q_o	L_o	S_{f_o}	H_f	JUNCTION LOSS V_o	H_b	Q_i	V_i	Q_iV_i	$\frac{V_i^2}{2g}$	H_i	Angle	H_Δ	H_t'	1.3 H_t'	0.5 H_t'	Final H	Inlet Water Surface Elev.	Rim Elev.	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)		(13)	(14)	(15)	(16)	(17)	(18)	(19)	(20)	(21)	
3	88.06	24	22.9	225	.0078	1.75	15	.87	21.6	6.9		.73	0.18	0	0	1.05	1.36		1.36	89.42	91.6	* HGL IS 1.44' IN PIA
5	89.42	24	21.6	186	.0076	1.41	6.9	0.18	19.5	6.2		.60	0.21	0	0	0.39	0.51		1.92	91.34	97.6	
7	91.34	24	19.5	82	.0061	.50	6.2	0.15	19.5	6.2		.60	0.21	20	.10	0.46	0.46		0.96	92.30	98.9	
9	92.30	24	19.5	86	.0061	.52	6.2	0.15	18.5	5.9		.54	0.19	70	.33	0.67	0.87		1.39	93.69	97.0	
11	93.69	24	18.5	200	.0056	1.12	5.9	0.13	15.3	0		—	0	0	0					94.94	97.1	FIN. GRADE
13	94.94	24	15.3	40	.0040	.16	4.9	.09	11.9 4.4	3.8 4.0	4.5 19.6	0.22	.08	90	.15	0.32	0.42		0.58	95.52	97.0	
16	95.52	15	4.4	40	.005	.02	4.0	.06	4.4	—		—	0	0						95.60	96.9	FIN. GRADE
24" CULV @ PEAKS	95.52	24	11.9	42	.0024	.10	3.8	.06	—	—		—	—	—	—	.06	—		.16	95.68	97.8	E/P.



SPR 8-01

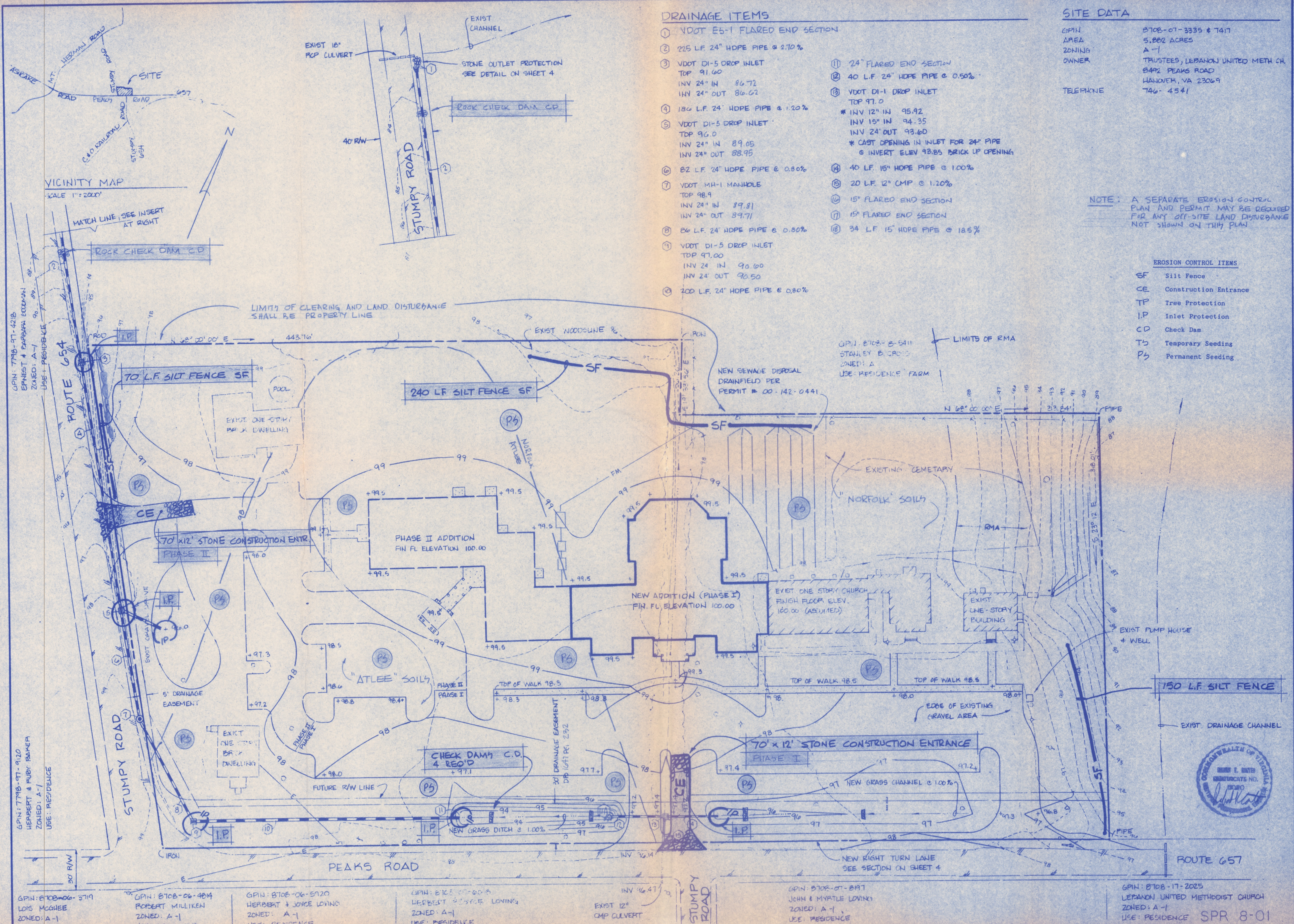
REVISIONS	BY
MAR. 30, 2001	[illegible]

SECTIONS, DETAILS PROFILES AND NOTES

ROBERT K. CARTER, P.E.
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374 Fax 746-0539

Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

Date DEC. 7, 2000
Scale AS NOTED
Drawn ND | RKC
Job
Sheet 5
Of 7 Sheets



DRAINAGE ITEMS

1. VDOT ES-1 FLARED END SECTION
2. 225 L.F. 24" HDPE PIPE @ 2.70%
3. VDOT DI-5 DROP INLET
   TOP 91.60
   INV 24" IN 86.72
   INV 24" OUT 86.62
4. 186 L.F. 24" HDPE PIPE @ 1.20%
5. VDOT DI-5 DROP INLET
   TOP 96.0
   INV 24" IN 89.05
   INV 24" OUT 88.95
6. 82 L.F. 24" HDPE PIPE @ 0.80%
7. VDOT MH-1 MANHOLE
   TOP 98.9
   INV 24" IN 89.81
   INV 24" OUT 89.71
8. 86 L.F. 24" HDPE PIPE @ 0.80%
9. VDOT DI-5 DROP INLET
   TOP 97.00
   INV 24 IN 90.60
   INV 24 OUT 90.50
10. 200 L.F. 24" HDPE PIPE @ 0.80%
11. 24" FLARED END SECTION
12. 40 L.F. 24" HDPE PIPE @ 0.50%
13. VDOT DI-1 DROP INLET
    TOP 97.0
    * INV 12" IN 95.92
    INV 15" IN 94.35
    INV 24" OUT 93.60
    * CAST OPENING IN INLET FOR 24" PIPE @ INVERT ELEV 93.85 BRICK UP OPENING
14. 40 LF. 15" HDPE PIPE @ 1.00%
15. 20 L.F. 12" CMP @ 1.20%
16. 15" FLARED END SECTION
17. 15" FLARED END SECTION
18. 34 LF 15" HDPE PIPE @ 1.85%

SITE DATA

GPIN	8708-07-3335 & 7417
AREA	5.882 ACRES
ZONING	A-1
OWNER	TRUSTEES, LEBANON UNITED METH. CH. 8492 PEAKS ROAD HANOVER, VA 23069
TELEPHONE	746-4541

NOTE: A SEPARATE EROSION CONTROL PLAN AND PERMIT MAY BE REQUIRED FOR ANY OFF-SITE LAND DISTURBANCE NOT SHOWN ON THIS PLAN

EROSION CONTROL ITEMS

SF	Silt Fence
CE	Construction Entrance
TP	Tree Protection
I.P	Inlet Protection
CD	Check Dam
TS	Temporary Seeding
PS	Permanent Seeding

REVISIONS	BY
MAR. 30, 2001	[illegible]

EROSION CONTROL PLAN

ROBERT K. CARTER, PE
11049 Shannondale Court
Mechanicsville, Virginia 23116
(804) 746-7374 Fax 746-0539

Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

COMMONWEALTH OF VIRGINIA
ROBERT K. CARTER
CERTIFICATE NO. [illegible]
PROFESSIONAL ENGINEER

Date	DEC. 7, 2000
Scale	1"=30'
Drawn	ND/RKC
Job	
Sheet	6
Of	7 Sheets

SPR 8-01

DEPARTMENT OF PUBLIC WORKS
STANDARD
EROSION AND SEDIMENT CONTROL NOTES

1. 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 site.

2. Temporary soil stabilization shall be applied within seven (7) days to denuded areas that may not be at final grade but will remain dormant for longer than thirty (30) days.

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 stabilized. Permanent vegetation shall not be considered established until a ground cover is achieved that, in the opinion of the County Engineer or his designated agent, is uniform, mature enough to survive and will inhibit erosion.

7. Underground utility lines shall be installed in accordance with the following standards in addition to other applicable criteria:
   a) No more than 500 linear feet of trench may be opened at one time.
   b) Excavated material shall be placed on the uphill side of trenches.
   c) Effluent from dewatering operations shall be filtered or passed through an approved sediment trapping device, or both, and discharged in a manner that does not adversely affect flowing streams or off-site property.
   d) Restabilization shall be in accordance with the above Notes.

8. 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 sediment by tracking onto the paved surface. Where sediment is transported onto a public road surface, the road shall be cleaned thoroughly at the end of each day. Sediment shall be removed from the roads by shoveling or sweeping and transported to a disposal area.

10. It shall be the owner's responsibility to inspect erosion control devices periodically and after every erodible rainfall. Any necessary repairs or clean up to maintain the effectiveness of the erosion control devices shall be made immediately.

11. 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 workday.

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.

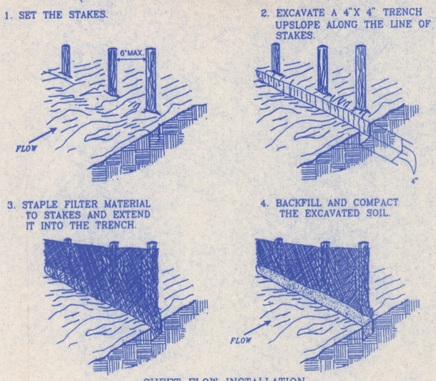
TABLE 3.35-A

ORGANIC MULCH MATERIALS AND APPLICATION RATES

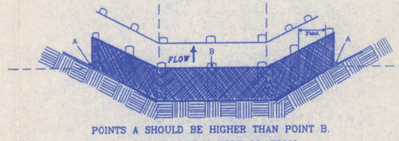
MULCHES:	RATES: Per Acre	RATES: Per 1000 sq. ft.	NOTES:
Straw or Hay	1½ - 2 tons (Minimum 2 tons for winter cover)	70 - 90 lbs.	Free from weeds and coarse matter. Must be anchored. Spread with mulch blower or by hand.
Fiber Mulch	Minimum 1500 lbs.	35 lbs.	Do not use as mulch for winter cover or during hot, dry periods.* Apply as slurry.
Corn Stalks	4 - 6 tons	185 - 275 lbs.	Cut or shredded in 4-6" lengths. Air-dried. Do not use in fine turf areas. Apply with mulch blower or by hand.
Wood Chips	4 - 6 tons	185 - 275 lbs.	Free of coarse matter. Air-dried. Treat with 12 lbs nitrogen per ton. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.
Bark Chips or Shredded Bark	50 - 70 cu. yds.	1-2 cu. yds.	Free of coarse matter. Air-dried. Do not use in fine turf areas. Apply with mulch blower, chip handler, or by hand.

* When fiber mulch is the only available mulch during periods when straw [illegible] at a minimum rate of 2000 lbs./ac. or 45 lbs./1000 sq. ft.

CONSTRUCTION OF A SILT FENCE (WITHOUT WIRE SUPPORT)



SHEET FLOW INSTALLATION
(PERSPECTIVE VIEW)



POINTS A SHOULD BE HIGHER THAN POINT B.

DRAINAGEWAY INSTALLATION
(FRONT ELEVATION)

STONE CONSTRUCTION ENTRANCE

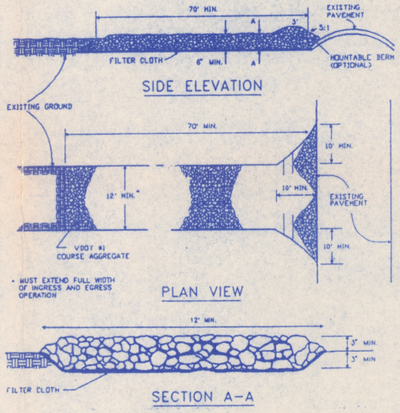


TABLE 3.32-D

SITE SPECIFIC SEEDING MIXTURES FOR COASTAL PLAIN AREA

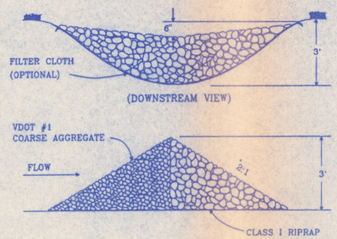
	Total Lbs. Per Acre
Minimum Care Lawn	
- Commercial or Residential	
- Kentucky 31 or Turf-Type Tall Fescue	175-200 lbs.
or	
- Common Bermudagrass **	75 lbs.
High-Maintenance Lawn	
- Kentucky 31 or Turf-Type Tall Fescue	200-250 lbs.
or	
- Hybrid Bermudagrass (seed) **	40 lbs. (unhulled) 30 lbs. (hulled)
or	
- Hybrid Bermudagrass (by other vegetative establishment method, see Std. & Spec. 3.34)	
General Slope (3:1 or less)	
- Kentucky 31 Fescue	128 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
	150 lbs.
Low Maintenance Slope (Steeper than 3:1)	
- Kentucky 31 Tall Fescue	93-108 lbs.
- Common Bermudagrass **	0-15 lbs.
- Red Top Grass	2 lbs.
- Seasonal Nurse Crop *	20 lbs.
- Sericea Lespedeza **	20 lbs.
	150 lbs.

* Use seasonal nurse crop in accordance with seeding dates as stated below:
February, March through April ..... Annual Rye
May 1st through August ..... Foxtail Millet
September, October through November 15th ..... Annual Rye
November 16th through January ..... Winter Rye

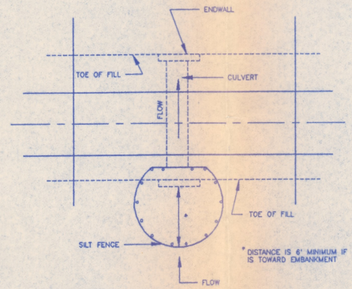
** May through October, use hulled seed. All other seeding periods, use unhulled seed. Weeping Lovegrass may be added to any slope or low-maintenance mix during warmer seeding periods; add 10-20 lbs./acre in mixes.

ROCK CHECK DAM

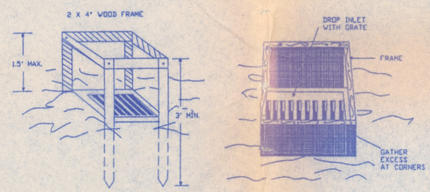
2-10 ACRES OF DRAINAGE AREA:



SILT FENCE CULVERT INLET PROTECTION



SILT FENCE DROP INLET PROTECTION



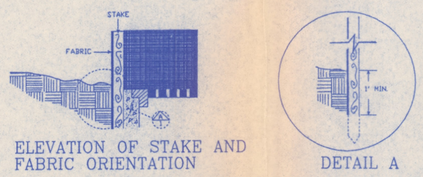


TABLE 3.31-C

TEMPORARY SEEDING PLANT MATERIALS, SEEDING RATES, AND DATES

SPECIES	SEEDING RATE: Acre	SEEDING RATE: 1000 ft²	NORTH[a]: 3/1 to 4/30	NORTH[a]: 5/1 to 8/15	NORTH[a]: 8/15 to 11/1	SOUTH[b]: 2/15 to 4/30	SOUTH[b]: 5/1 to 9/1	SOUTH[b]: 9/1 to 11/15	PLANT CHARACTERISTICS
OATS (Avena sativa)	3 bu. (up to 100 lbs., not less than 50 lbs.)	2 lbs.	X	-	-	X	-	-	Use spring varieties (e.g., Noble).
RYE[d] (Secale cereale)	2 bu. (up to 110 lbs., not less than 50 lbs.)	2.5 lbs.	X	-	X	X	-	X	Use for late fall seedings, winter cover. Tolerates cold and low moisture.
GERMAN MILLET (Setaria italica)	50 lbs.	approx. 1 lb.	-	X	-	-	X	-	Warm-season annual. Dies at first frost. May be added to summer mixes.
ANNUAL RYEGRASS[c] (Lolium multi-florum)	60 lbs.	1½ lbs.	X	-	X	X	-	X	May be added in mixes. Will mow out of most stands.
WEEPING LOVEGRASS (Eragrostis curvula)	15 lbs.	5½ ozs.	-	X	-	-	X	-	Warm-season perennial. May bunch. Tolerates hot, dry slopes and acid, infertile soils. May be added to mixes.
KOREAN LESPEDEZA[c] (Lespedeza stipulacea)	25 lbs.	approx. 1½ lbs.	X	X	-	X	X	-	Warm season annual legume. Tolerates acid soils. May be added to mixes.

[a] Northern Piedmont and Mountain region. See Plates 3.22-1 and 3.22-2.
[b] Southern Piedmont and Coastal Plain.
[c] May be used as a cover crop with spring seeding.
[d] May be used as a cover crop with fall seeding.
X May be planted between these dates.
May not be planted between these dates.

EROSION CONTROL NARRATIVE

PROJECT DESCRIPTION

The purpose of this project is to construct an addition to an existing church facility with related parking areas on a 5.88 acre parcel. The site is located on the north line of State Route 657 (Peaks Road) at its intersection with State Route 654 (Stumpy Road). The area of the site to be disturbed is approximately 2.7 acres.

EXISTING SITE CONDITIONS

The eastern portion of the site is occupied by various buildings and gravel parking areas. The western portion of the site is occupied by two unoccupied dwellings and gravel driveways.

ADJACENT PROPERTY

The site is bordered on the north and east by agriculturally zoned land which is presently being used as a pasture. The site is bounded on the south and west by Peaks Road and Stumpy Road respectively.

OFFSITE AREAS

Topsoil stripped from the developed portion of the site may possibly be stockpiled on the site or hauled to an approved topsoil stockpile area. If topsoil is stockpiled on the site, a standard silt fence shall be constructed around the stockpile on the downstream side of the stockpile. Stockpile shall also be seeded when stockpiling operations are completed. Portions of the proposed storm sewer system will be constructed off-site within the right-of-ways of Peaks Road and Stumpy Road. Stone check dams, inlet protection, outlet protection and permanent seeding shall be installed in these areas as shown and detailed on the plans. Likewise, the new vehicular entrances will be constructed within the existing right-of-ways. Temporary stone construction entrances shall be installed at said entrances as shown on the plan.

CRITICAL EROSION AREAS

Whereas the site presently drains gently toward Peaks Road and onto adjacent property there are no critical erosion areas on the site, provided that the erosion control measures specified are installed as noted. Good vegetative growth must be established on the slopes adjacent to the newly constructed parking areas to prevent erosion of soil from those areas. Slopes should be hydroseeded to establish vegetative growth as soon as possible.

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 current edition of the Virginia Erosion and Sediment Control Handbook. The minimum standards of the VESCR shall be adhered to unless otherwise waived or approved by a variance.

STRUCTURAL PRACTICES

1. Temporary Construction Entrance - 3.02

A temporary construction entrance shall be installed where shown on the plan. During muddy conditions drivers of construction vehicles will be required to wash the vehicle's wheels before entering the highway.

2. Silt Fence 3.05

A silt fence shall be constructed to entrap eroded soil from the site where shown on the plan and around any stockpiled soil on the site.

3. Inlet Protection 3.07 & 3.08

Inlet protection shall be installed around all inlets and pipes per Specification 3.07 and 3.08. Type of inlet protection shall be per Drawing Plate 3.07-1 and 3.08-1 as detailed hereon.

4. Check Dam 3.20

Rock check dams shall be installed where shown on the plan per Specification 3.20 and as detailed hereon.

VEGETATIVE PRACTICES

1. Topsoiling (Stockpile) - 3.30

Topsoil will be stripped from areas to be graded and stockpiled for later use. Stockpile locations shall be located where shown on the plan, and are to be stabilized with temporary vegetation.

2. Temporary Seeding - 3.31

All denuded areas which will be left dormant for extended periods of time shall be seeded with fast germinating temporary vegetation immediately following grading.

Selection of the seed mixture will depend on the time of year it is applied.

MANAGEMENT STRATEGIES

1. Construction will be sequenced so that grading operations can begin and end as quickly as possible.
2. Sediment trapping measures will be installed as a first step in grading and will be seeded and mulched immediately following installation.
3. Temporary seeding or other stabilization will follow immediately after grading.
4. Areas which are not to be disturbed will be clearly marked by flags, signs, etc.
5. The job superintendent shall be responsible for the installation and maintenance of all erosion and sediment control practices.
6. After achieving adequate stabilization, the temporary erosion and sediment controls will be cleaned up and removed.

PERMANENT STABILIZATION

All areas disturbed by construction shall be stabilized with permanent seeding immediately following finish grading. Seeding shall be done with Kentucky 31 Tall Fescue according to STD. & SPEC. 3.32, permanent seeding, of the handbook. Erosion control blankets will be installed over fill slopes which have been brought to final grade and have been seeded to protect the slopes from rill and gully erosion and to allow seed to germinate properly. Mulch (straw or fiber) will be used on relatively flat areas. In all seeding operations, seed, fertilizers and lime will be applied prior to mulching.

STORMWATER MANAGEMENT

Stormwater from the front of the site will be discharged into the channel and storm sewer system along Peaks Road and Stumpy Road and discharged into an existing unnamed pond to the north of the site. Drainage from the rear grassed area of the site will sheet flow onto existing property as it presently does. The increase in runoff from the new building addition will be minimal and will travel approximately 100 feet across the grassed rear area of the site before exiting the site onto adjacent property.

Lime and Fertilizer

Soil tests should be made to determine the exact requirements for lime and fertilizer. Soil tests may be conducted by the State Laboratory at VPI&SU or a reputable commercial laboratory. Information on state soil tests is available from county or city agricultural extension agents.

Under difficult circumstances where it is not possible to obtain a soil test, the following soil amendments shall be made:

Pulverized agricultural limestone: 90 lbs./1,000 sq. ft. (2 tons/acre). An agricultural grade of limestone should be used.

Fertilizer: Apply 1000 lbs. 10-10-10/acre and follow with additional nitrogen application as indicated by soil test conducted 30-60 days later.

Note: Equivalent nutrients may be applied with other fertilizer formulations.

These amendments shall be spread evenly over the area to be sprigged, and incorporated into the top 3-6 inches of the soil by discing, harrowing or other acceptable means.

Any irregularities in the soil surface resulting from topsoiling or other operations shall be filled or leveled in order to prevent the formation of water pockets.

Soil preparation, liming, and fertilizing should be completed before delivery of sprigs or sod is requested. This material is perishable and should not remain on a pallet or in crates longer than 36 hours from the time of digging. The presence of mildew or distinct yellowing of the leaves is usually a good indication of damage to turf.

SPR-8 01

REVISIONS	BY
MAR. 30, 2001	JG

EROSION CONTROL DETAILS

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Addition to Facilities of
LEBANON UNITED METHODIST CHURCH
8492 Peaks Road
Hanover, Virginia

Date DEC. 7, 2000
Scale NONE
Drawn RKC
Job
Sheet 7
Of 7 Sheets