CERTIFICATE OF AUTHENTICITY

THIS IS TO CERTIFY THAT THE FOLLOWING ELECTRONIC RECORDS ARE TRUE AND ACCURATE REPRODUCTIONS OF THE ORIGINAL RECORDS OF JAMES CITY COUNTY GENERAL SERVICES DEPARTMENT- STORMWATER DIVISION; WERE SCANNED IN THE REGULAR COURSE OF BUSINESS PURSUANT TO GUIDELINES ESTABLISHED BY THE LIBRARY OF VIRGINIA AND ARCHIVES; AND HAVE BEEN VERIFIED IN THE CUSTODY OF THE INDIVIDUAL LISTED BELOW.

BMP NUMBER: **WC031**

DATE VERIFIED: **January 31, 2013**

QUALITY ASSURANCE TECHNICIAN: **Leah Hardenbergh**

Leah Hardenbergh

LOCATION: WILLIAMSBURG, VIRGINIA

Stormwater Division

MEMORANDUM

DATE: March 10, 2010

TO: Michael J. Gillis, Virginia Correctional Enterprises Document Management Services

FROM: Jo Anna Ripley, Stormwater

PO: 270712

RE: Files Approved for Scanning

General File ID or BMP ID: WC031

PIN: 1430100037

Subdivision, Tract, Business or Owner Name (if known): York River Baptist Church

Property Description: Church site

Site Address: 8201 Croaker Road

(For internal use only) **Box** 9 **Drawer:** 5

Agreements: (in file as of scan date) **N** **Book or Doc#:** **Page:**

Comments

2/10/93

YORK RIVER PARKING LOT EXP.

WC031

1) Trench - 125' x 5 x 4 = 2500 x .4 = 1000 ft^3

2) Parking Expansion Area - 19,289 ft^2

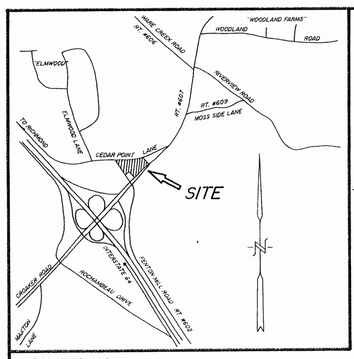
for 10 pt - 1" x 19,289 ft^2 x 1/12" = 1607 ft^3

" 9 pt 1/2 x 19,289 ft^2 x 1/12 = 804 ft^3

needs either additional 600 ft^3 or

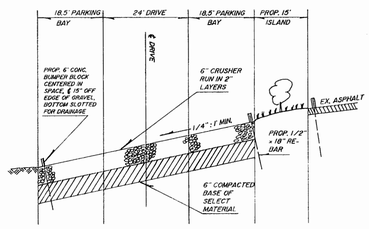
10% open space

Trench should be 20' from edge of parking lot



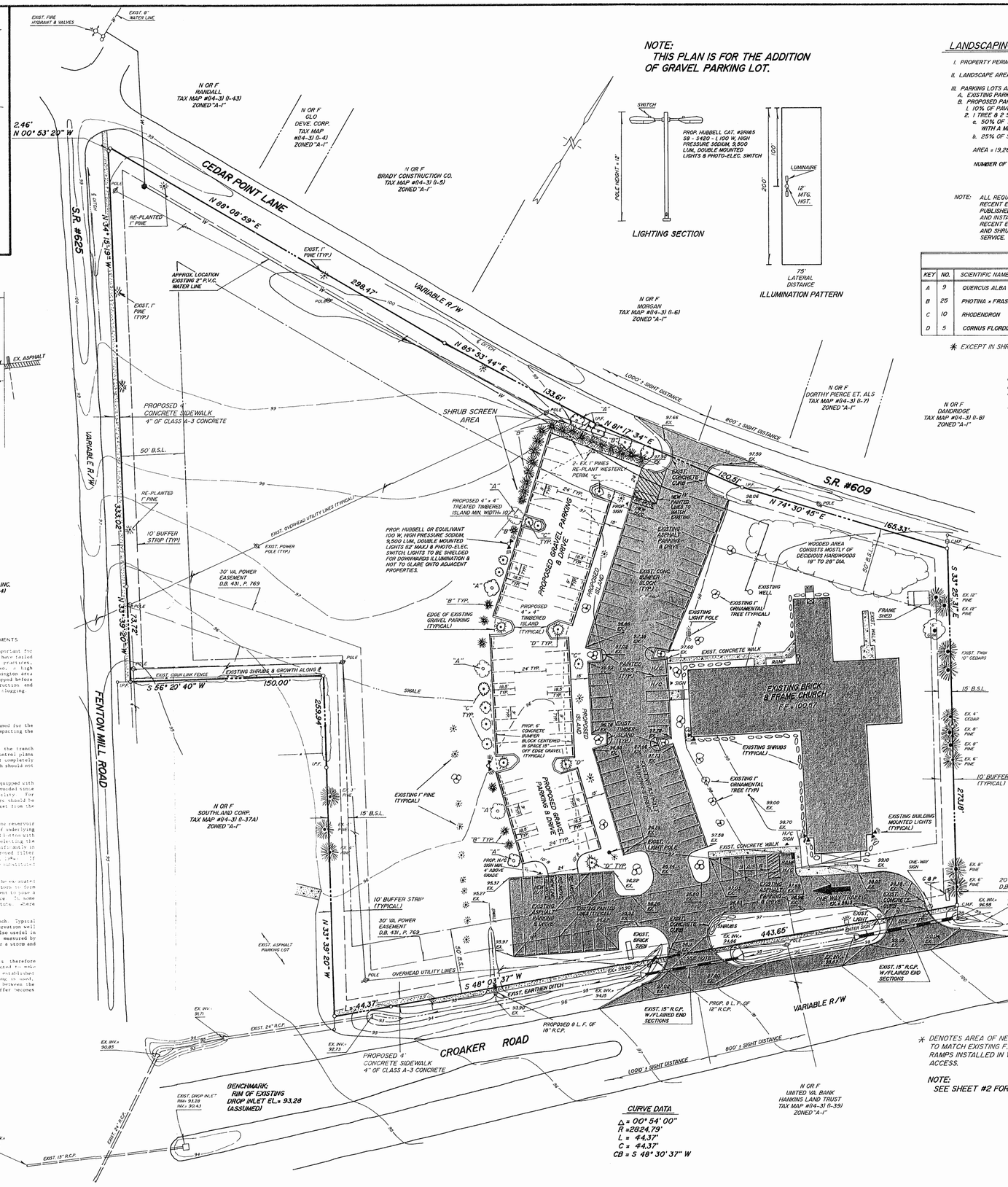
VICINITY MAP

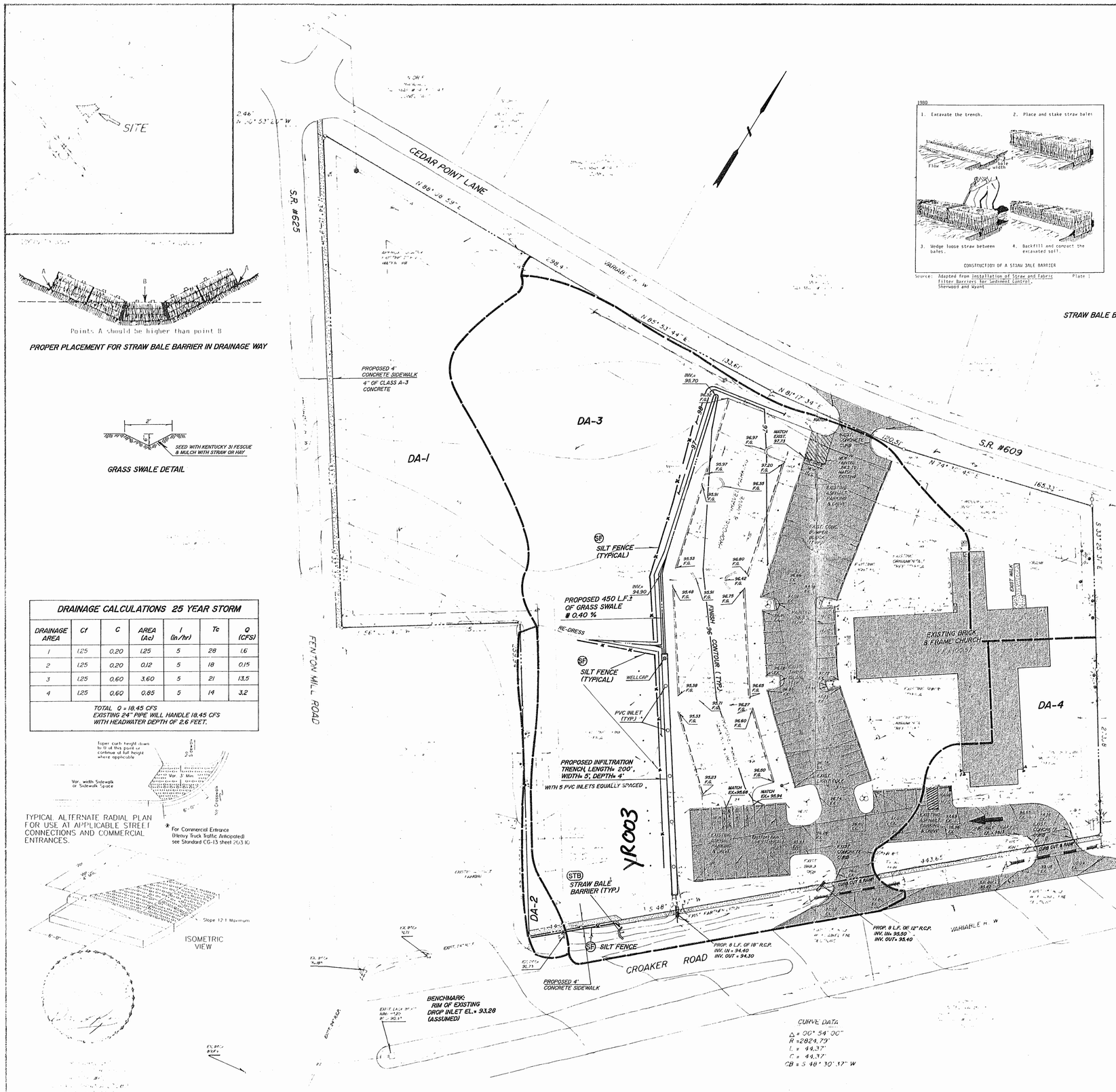
SCALE: 1" = 2,000' ±



TYPICAL PARKING & DRIVE SECTION

SCALE:
HORIZ.: 1" = 20'
VERT.: 1" = 2'


NOTE:
THIS PLAN IS FOR THE ADDITION OF GRAVEL PARKING LOT.
EXIST. FIRE HYDRANT & VALVES
EXIST. 8" WATER LINE
N OR F RANDALL TAX MAP #(14-3) (1-43) ZONED "A-1"
N OR F GLO DEVE. CORP. TAX MAP #(14-3) (1-4) ZONED "A-1"
N OR F BRADY CONSTRUCTION CO. TAX MAP #(14-3) (1-5) ZONED "A-1"
N OR F MORGAN TAX MAP #(14-3) (1-6) ZONED "A-1"
N OR F DORTHY PIERCE ET. ALS TAX MAP #(14-3) (1-7) ZONED "A-1"
N OR F DANDRIDGE TAX MAP #(14-3) (1-8) ZONED "A-1"
N OR F SIXTY - FOUR ASSOC. INC. TAX MAP #(14-3) (1-34) ZONED "A-1"
N OR F SOUTHLAND CORP. TAX MAP #(14-3) (1-37A) ZONED "A-1"
N OR F LAMOS TAX MAP #(14-3) (1-38) ZONED "A-1"
N OR F UNITED VA. BANK HANKINS LAND TRUST TAX MAP #(14-3) (1-39) ZONED "A-1"
2.46'
N 00° 53' 20" W
CEDAR POINT LANE
N 89° 06' 59" E
298.47'
VARIABLE R/W
N 85° 53' 44" E
133.61'
N 81° 17' 34" E
120.61'
N 74° 30' 45" E
165.33'
S.R. #609
S.R. #625
FENTON MILL ROAD
N 34° 15' 19" W
232.02'
S 33° 25' 37" E
273.18'
N 33° 39' 20" W
73.72'
S 56° 20' 40" W
150.00'
253.94'
N 33° 39' 20" W
443.65'
S 48° 03' 37" W
L = 44.37'
CROAKER ROAD
STATE ROUTE #607
VARIABLE R/W
LIGHTING SECTION
PROP. HUBBELL CAT. #2RM5 38 - 3492 - 1 100 W, HIGH PRESSURE SODIUM, 9,500 LUM, DOUBLE MOUNTED LIGHTS & PHOTO-ELEC. SWITCH
POLE HEIGHT = 12'
200'
100'
LUMINAIRE
12' MTG. HGT.
75' LATERAL DISTANCE
ILLUMINATION PATTERN
SHRUB SCREEN AREA
PROPOSED 4" x 4" TREATED TIMBERED ISLAND MIN. WIDTH= 10'
PROP. HUBBELL OR EQUILIANT 100 W, HIGH PRESSURE SODIUM, 9,500 LUM, DOUBLE MOUNTED LIGHTS 12' MAX.) & PHOTO-ELEC. SWITCH. LIGHTS TO BE SHIELDED FOR DOWNWARDS ILLUMINATION & NOT TO GLARE ONTO ADJACENT PROPERTIES.
PROPOSED GRAVEL PARKING & DRIVE
EXISTING ASPHALT PARKING & DRIVE
EXISTING BRICK & FRAME CHURCH F.F.= 100.07
WOODED AREA CONSISTS MOSTLY OF DECIDIOUS HARDWOODS 18" TO 28" DIA.
EXISTING WELL
EXISTING 1" ORNAMENTAL TREE (TYPICAL)
EXISTING LIGHT POLE
FRAME SHED
EXIST. CONCRETE WALK
EXISTING SHRUBS (TYPICAL)
EXISTING BUILDING MOUNTED LIGHTS (TYPICAL)
20' x 20' C & P EASEMENT D.B. 508, P. 676
10' BUFFER STRIP (TYPICAL)
30' VA. POWER EASEMENT D.B. 431, P. 769
EXIST. OVERHEAD UTILITY LINES (TYPICAL)
EXIST. POWER POLE (TYPICAL)
EXISTING SHRUBS & GROWTH ALONG ℄
EXIST. CHAIN LINK FENCE
EXISTING 1" PINE (TYPICAL)
RE-PLANTED 1" PINE
APPROX. LOCATION EXISTING 2" P.V.C. WATER LINE
PROPOSED 4' CONCRETE SIDEWALK 4" OF CLASS A-3 CONCRETE
50' B.S.L.
15' B.S.L.
50' B.S.L.
EXIST. ASPHALT PARKING LOT
OVERHEAD UTILITY LINES
EXIST. EARTHEN DITCH
PROPOSED 8" L.F. OF 18" R.C.P.
EXIST. 15" R.C.P. W/FLARED END SECTIONS
PROP. 8" L.F. OF 12" R.C.P.
EXIST. 24" R.C.P.
EXIST. 15" R.C.P.
EXIST. DROP INLET
BENCHMARK: RIM OF EXISTING DROP INLET EL.= 93.28 (ASSUMED)
800' ± SIGHT DISTANCE
1,000' ± SIGHT DISTANCE
EXISTING BUILDING
EXIST. BRICK SIGN
EXIST. CONCRETE CURB
EXIST. LIGHT POLE
ONE-WAY SIGN
EXIST. CONCRETE WALK
EXIST. TWIN 9" CEDARS
EXIST. 12" PINE
EXIST. 18" PINE
EXIST. 4" CEDAR
EXIST. 8" PINE
EXIST. 6" PINE
EXIST. 36" OAK
EXIST. 30" PINE
EXIST. 24" PINE
EXIST. 18" PINE
EXIST. 15" PINE
EXIST. 8" PINE
EXIST. 6" PINE
EXIST. 36" PINE



PROPER PLACEMENT FOR STRAW BALE BARRIER IN DRAINAGE WAY

GRASS SWALE DETAIL

DRAINAGE CALCULATIONS 25 YEAR STORM						
DRAINAGE AREA	Cf	C	AREA (Ac)	I (in/hr)	Tc	Q (CFS)
1	1.25	0.20	1.25	5	28	1.6
2	1.25	0.20	0.12	5	18	0.15
3	1.25	0.60	3.60	5	21	13.5
4	1.25	0.60	0.85	5	14	3.2
TOTAL Q = 18.45 CFS EXISTING 24" PIPE WILL HANDLE 18.45 CFS WITH HEADWATER DEPTH OF 2.6 FEET.						

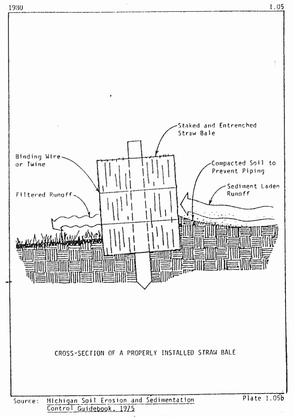
TYPICAL ALTERNATE RADIAL PLAN FOR USE AT APPLICABLE STREET CONNECTIONS AND COMMERCIAL ENTRANCES.

* For Commercial Entrance (Heavy Truck Traffic Anticipated) see Standard CG-13 sheet 2 of 3 (6)

ISOMETRIC VIEW

CONSTRUCTION OF A STRAW BALE BARRIER

Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 1



CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE

Source: Michigan Soil Erosion and Sedimentation Control Guidebook, 1975 Plate 1.05b

STRAW BALE BARRIER DETAIL

NOTES :

Curb ramp to be class A-3 Concrete with exposed aggregate finish.
Ramp shall not exceed a maximum slope of 12:1.

Curb ramps are to be located as shown on the plans or as directed by the Engineer. They are to be provided at intersections wherever an accessible route (A) within the right-of-way of a highway facility crosses a curb regardless of whether sidewalk is existing, proposed or non-existent. They may be offset from pedestrian crosswalks as shown on plans or as directed by the Engineer, but should not be located behind vehicle stop lines. Existing light poles, fire hydrants, drop inlets, etc. will also affect placement.

Curb ramps will be measured and paid for at the contract unit prices for Exposed aggregate sidewalk, complete-in-place.

Curb/curb and gutter slope transitions adjacent to curb ramps are included in payment for curb/curb and gutter.

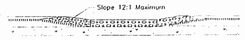
When used in conjunction with Standard CG-1 or CG-7, the curb face on this Standard is to be adjusted to match the roundable curb configuration.

* Treatment where width of sidewalk or sidewalk space is less than 7'-4".

(A) Accessible route is defined as a continuous unobstructed, stable, firm and slip resistant path connecting all accessible elements of a facility that can be approached, entered and used by persons with mobility impairments.

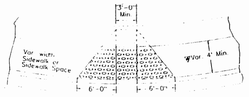
SECTION A-A

This item may be precast or cast in place.

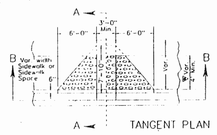


SECTION B-B

Limits of Exposed aggregate sidewalk



RADIAL PLAN



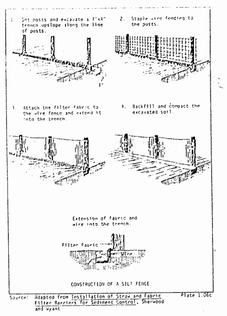
TANGENT PLAN

CURB RAMP DETAIL

EROSION & SEDIMENT CONTROL NOTES:

THE PURPOSE OF THE EROSION CONTROL MEASURES SHOWN ON THESE PLANS SHALL BE TO PRECLUDE THE TRANSPORT OF ALL WATERBORNE SEDIMENTS RESULTING FROM CONSTRUCTION ACTIVITIES FROM ENTERING ONTO ADJACENT PROPERTIES OR STATE WATERS. IF FIELD INSPECTION REVEALS THE INADEQUACY OF THE PLAN TO CONFINE SEDIMENT TO THE PROJECT SITE, APPROPRIATE MODIFICATIONS WILL BE MADE TO CORRECT ANY PLAN DEFICIENCIES.

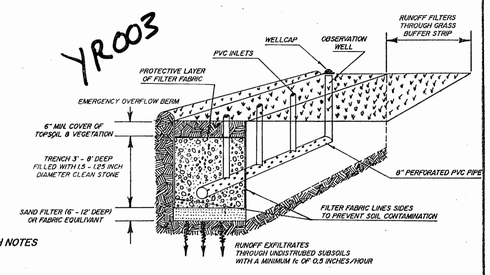
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK". THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT.
2. ALL POINTS OF CONSTRUCTION INGRESS AND EGRESS SHALL BE PROTECTED BY A TEMPORARY CONSTRUCTION ENTRANCE TO PREVENT TRACKING OF MUD ONTO PUBLIC RIGHT-OF-WAYS. AN ENTRANCE PERMIT FROM VDOT IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN STATE RIGHT-OF-WAYS.
3. SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, SEDIMENT BARRIERS AND OTHER MEASURES INTENDED TO TRAP SEDIMENT ON-SITE MUST BE CONSTRUCTED AS A FIRST STEP IN GRADING AND BE MADE FUNCTIONAL BEFORE UPSLOPE LAND DISTURBANCE TAKES PLACE. EARTHEN STRUCTURES SUCH AS DAMS, DIKES, AND DIVERSIONS MUST BE SEEDED AND MULCHED WITHIN 15 DAYS OF INSTALLATION. AN ON-SITE PRE-CONSTRUCTION MEETING WILL BE HELD BETWEEN THE OFFICE OF CODE COMPLIANCE AND THE CONTRACTOR TO IDENTIFY THOSE MEASURES TO BE INITIALLY INSTALLED.
4. MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE ACCOMPLISHED IN ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK". MAINTENANCE WILL INCLUDE THE REPAIR OF MEASURES DAMAGED BY ANY SUBCONTRACTOR INCLUDING THOSE OF THE PUBLIC UTILITY COMPANIES. AT THE PRE-CONSTRUCTION MEETING, THE CONTRACTOR WILL SUPPLY CODE COMPLIANCE WITH THE NAME OF THE INDIVIDUAL WHO WILL BE RESPONSIBLE FOR ENSURING MAINTENANCE OF INSTALLED MEASURES ON A DAILY BASIS.
5. SURFACE FLOWS OVER CUT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRANSVERSING THE SLOPES OR BY INSTALLING MECHANICAL DEVICES TO SAFELY LOWER WATER DOWNSLOPE WITHOUT CAUSING EROSION. A TEMPORARY FILL DIVERSION (STD. & SPEC. 1.15) SHALL BE INSTALLED PRIOR TO THE END OF EACH WORKING DAY.
6. SEDIMENT CONTROL MEASURES MAY REQUIRE MINOR FIELD ADJUSTMENTS AT TIME OF CONSTRUCTION TO INSURE THEIR INTENDED PURPOSE IS ACCOMPLISHED. OFFICE OF CODE COMPLIANCE APPROVAL WILL BE REQUIRED FOR OTHER DEVIATIONS FROM THE APPROVED PLANS.
7. THE CONTRACTOR SHALL STRIP AND PILE TOPSOIL AT THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. SILT FENCE SHALL BE PLACED AT THE TOE OF THE STOCKPILE AFTER STRIPPING OF TOPSOIL IS COMPLETE.
8. THE CONTRACTOR SHALL COMPLETE DRAINAGE FACILITIES WITHIN 30 DAYS FOLLOWING COMPLETION OF ROUGH GRADING AT ANY POINT WITHIN THE PROJECT. THE INSTALLATION OF DRAINAGE FACILITIES SHALL TAKE PRECEDENCE OVER ALL UNDERGROUND UTILITIES. OUTFALL DITCHES FROM DRAINAGE STRUCTURES SHALL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION OF SAME. THIS INCLUDES INSTALLATION OF EROSION CONTROL ZONE WHERE REQUIRED. ANY DRAINAGE OUTFALLS REQUIRED FOR A STREET MUST BE COMPLETED BEFORE STREET GRADING BEGINS.
9. PERMANENT OR TEMPORARY SOIL STABILIZATION MUST BE APPLIED TO ALL DENUDED AREAS WITHIN 15 DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. SOIL STABILIZATION MUST ALSO BE APPLIED TO DENUDED AREAS WHICH MAY NOT BE AT FINAL GRADE BUT WILL REMAIN DORMANT (UNDISTURBED) FOR LONGER THAN 30 DAYS. SOIL STABILIZATION MEASURES INCLUDE VEGETATIVE ESTABLISHMENT, MULCHING AND THE EARLY APPLICATION OF GRAVEL BASE MATERIAL ON AREAS TO BE PAVED.
10. NO MORE THAN 300' OF SANITARY SEWER, STORM SEWER, OR WATERLINES ARE TO BE OPEN AT ONE TIME. FOLLOWING INSTALLATION OF ANY PORTION OF THESE ITEMS, ALL DISTURBED AREAS ARE TO BE IMMEDIATELY STABILIZED (i.e., THE SAME DAY).
11. IF DISTURBED AREA STABILIZATION IS TO BE ACCOMPLISHED DURING THE MONTHS OF DECEMBER, JANUARY, OR FEBRUARY, STABILIZATION SHALL CONSIST OF MULCHING IN ACCORDANCE WITH SPECIFICATION 1.75. SEEDING WILL THEN TAKE PLACE AS SOON AS THE SEASON PERMITS.
12. THE TERM SEEDING, FINAL VEGETATIVE COVER OR STABILIZATION, ON THIS PLAN SHALL MEAN THE SUCCESSFUL GERMINATION AND ESTABLISHMENT OF A STABLE GRASS COVER FROM A PROPERLY PREPARED SEEDBED CONTAINING THE SPECIFIED AMOUNTS OF SEED, LIME, AND FERTILIZER IN ACCORDANCE WITH SPECIFICATION 1.86, PERMANENT SEEDING. IRRIGATION SHALL BE REQUIRED AS NECESSARY TO ENSURE ESTABLISHMENT OF GRASS COVER.
13. ALL SLOPES STEEPER THAN 3:1 SHALL REQUIRE THE USE OF EROSION CONTROL BLANKETS SUCH AS EXCELSIOR BLANKETS TO AID IN THE ESTABLISHMENT OF A VEGETATIVE COVER. INSTALLATION SHALL BE IN ACCORDANCE WITH SPECIFICATION 1.75, MULCHING AND MANUFACTURER'S INSTRUCTIONS.
14. INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION 1.08 SHALL BE PROVIDED FOR ALL STORM DRAIN INLETS AS SOON AS PRACTICAL FOLLOWING CONSTRUCTION OF SAME.
15. TEMPORARY LINERS, SUCH AS POLYETHYLENE SHEETS, SHALL BE PROVIDED FOR ALL PAVED DITCHES UNTIL THE PERMANENT CONCRETE LINER IS INSTALLED.
16. PAVED DITCHES SHALL BE REQUIRED WHERVER EROSION IS EVIDENT. PARTICULAR ATTENTION SHALL BE PAID TO THOSE AREAS WHERE GRADES EXCEED 3%.
17. TEMPORARY EROSION CONTROL MEASURES ARE NOT TO BE REMOVED UNTIL ALL DISTURBED AREAS ARE STABILIZED. AFTER STABILIZATION IS COMPLETE, ALL MEASURES SHALL BE REMOVED WITHIN 30 DAYS. TRAPPED SEDIMENT SHALL BE SPREAD AND SEEDED.
18. OFF-SITE WASTE OR BORROW AREAS SHALL BE APPROVED BY THE OFFICE OF CODE COMPLIANCE PRIOR TO THE INFLOW OF ANY BORROW OR EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.
19. ALL PAVED AND/OR PIPED OUTFALLS WILL BE CONSTRUCTED BEFORE ROAD GRADING AND UTILITY INSTALLATION BEGINS.



CONSTRUCTION OF A SILT FENCE

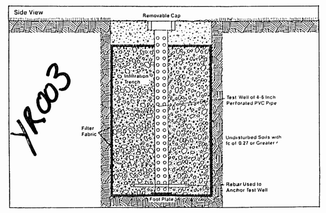
Source: Adapted from Installation of Straw and Fabric Filter Barriers for Sediment Control, Sherwood and Wyant Plate 1.06

SILT FENCE DETAIL



INFILTRATION TRENCH DETAIL

FOR INFILTRATION TRENCH NOTES SEE SHEET # 1.



CROSS SECTION INFILTRATION TRENCH

GRADING, DRAINAGE, EROSION & SEDIMENT CONTROL PLAN

OF

YORK RIVER BAPTIST CHURCH

LOCATED

JAMES CITY COUNTY, VIRGINIA

SCALE : 1" = 40'

DATE : APRIL 29, 1993
REVD.: JANUARY 29, 1993
REVD.: FEBRUARY 24, 1993
REVD.: APRIL 26, 1993 (PER V.D.O.T. COMMENTS)

SHEET #2 OF 2

WC031_YORK_RIVER_BAPTIST_CHURCH - 005

Date Record Created:

Created By:

WS_BMPNO: WC031

Print Record

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Wednesday, March 10, 201
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WATERSHED	WC
BMP ID NO	031
PLAN NO	SP-6-93
TAX PARCEL	(14-3)(1-37)
PIN NO	14301000037
CONSTRUCTION DATE	1/1/1993
PROJECT NAME	York River Baptist Church
FACILITY LOCATION	8201 Croaker Road
CITY-STATE	Williamsburg, VA
CURRENT OWNER	Trustees of York River Baptist Church
OWNER ADDRESS	8201 Croaker Road
OWNER ADDRESS 2	
CITY-STATE-ZIP CODE	Williamsburg, VA 23188
OWNER PHONE	
MAINT AGREEMENT	Yes
EMERG ACTION PLAN	No

MAINTENANCE PLAN	No	CTRL STRUC DESC	
SITE AREA acre	0	CTRL STRUC SIZE inches	
LAND USE	Church	OTLT BARRL DESC	PVC
old BMP TYP	Infiltration	OTLT BARRL SIZE inch	8
JCC BMP CODE	C3 Infiltration Basin .5		
POINT VALUE	10	EMERG SPILLWAY	No
		DESIGN HW ELEV	
		PERM POOL ELEV	
SVC DRAIN AREA acres	4.3	2-YR OUTFLOW cfs	
		10-YR OUTFLOW cfs	
		REC DRAWING	No
SERVICE AREA DESCRI	Church & offsite area		
IMPERV AREA acres		CONSTR CERTIF	No
RECV STREAM	UT of Ware Creek		
EXT DET-WQ-CTRL	No	LAST INSP DATE 8/11/2004	Inspected by:
WTR QUAL VOL acre-ft	0.04	INTERNAL RATING	3
CHAN PROT CTRL	No	MISC/COMMENTS	
CHAN PROT VOL acre-ft	0	Also parking lot expansion. 1 inch rainfall.	
SW/FLOOD CONTROL	No		
GEOTECH REPORT	No		

Get Last BMP No

Return to Menu

Additional Comments: