

# Stormwater Division

## MEMORANDUM

**DATE:** February 24, 2010  
**TO:** Michael J. Gillis, Virginia Correctional Enterprises Document Management Services  
**FROM:** Jo Anna Ripley, Stormwater  
**PO:** 270712  
**RE:** Files Approved for Scanning

---

**BMP ID or General File ID** PC046

**PIN:** 4710100058

**Subdivision, Tract, Business or Owner**

**Name (if known):** Williamsburg James City County Schools  
**Property Description:** Clara Byrd Baker  
**Site Address:** 3131 Ironbound Road

*(For internal use only)*

**Box:** JC001

**Drawer:** 1

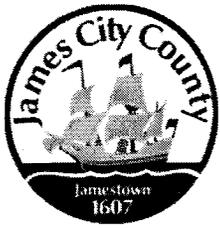
**Agreements:** (in file as of scan date)

**N Book or Doc#:**

**Page:**

**Comments:**

This folder combined with PC077 & PC078



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**Property Description:**

Clara Byrd Baker

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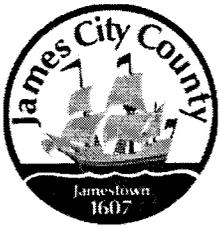
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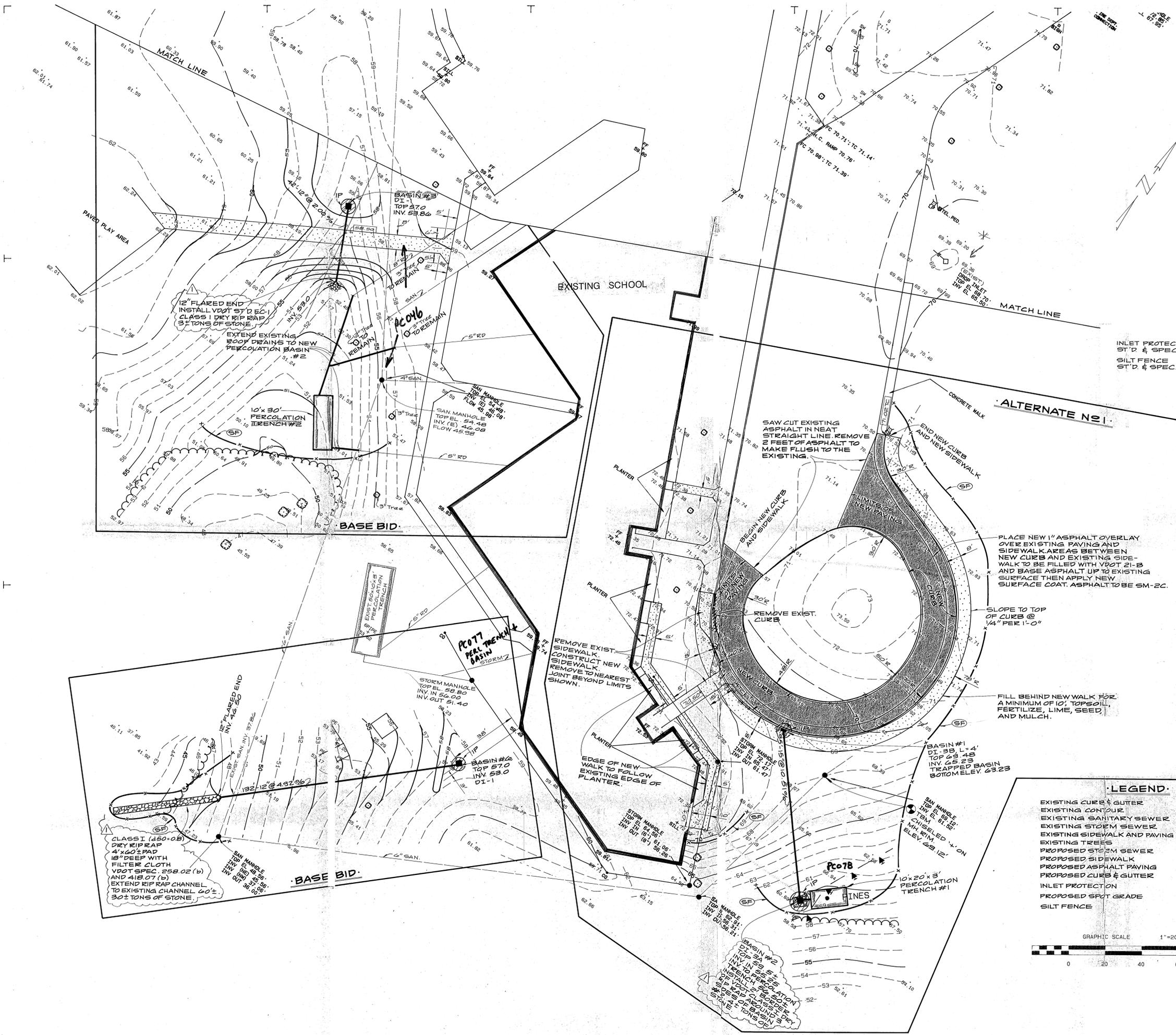
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**BOND COMET WESTMORELAND HINER**

207 West Broad Street  
 Richmond, Virginia 23220  
 804 788-4774

**SITE IMPROVEMENTS  
 CLARA BYRD BAKER  
 ELEMENTARY  
 SCHOOL**

WILLIAMSBURG - JAMES CITY  
 COUNTY PUBLIC SCHOOLS

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PROJECT NUMBER:  
**9219**  
 PROJECT MANAGER:  
 CDF  
 DESIGN BY:  
 AB & A  
 ISSUE DATE:  
 11 JUNE 1993  
 REVISIONS:  
 7.14.93

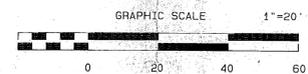


**PARTIAL SITE PLAN**

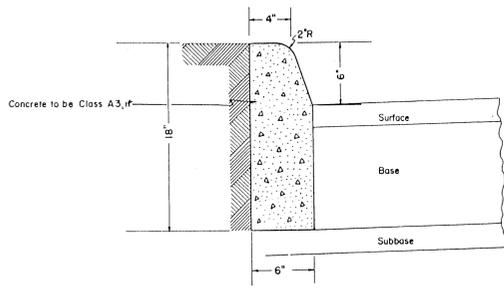
SHEET NUMBER  
**C-2**

**LEGEND**

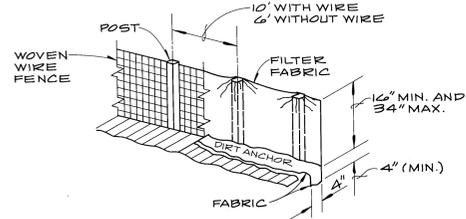
- EXISTING CURB & GUTTER
- EXISTING CONTOUR
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING SIDEWALK AND PAVING
- EXISTING TREES
- PROPOSED STORM SEWER
- PROPOSED SIDEWALK
- PROPOSED ASPHALT PAVING
- PROPOSED CURB & GUTTER
- INLET PROTECTION
- PROPOSED SPOT GRADE
- SILT FENCE



PERCOLATION  
 TRENCH NEAR  
 BUS PARKING

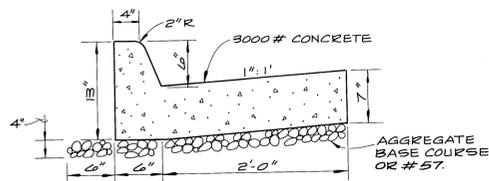


**· CURB DETAIL ·**  
NO SCALE



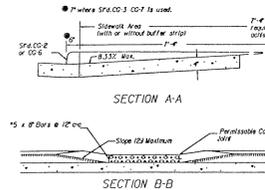
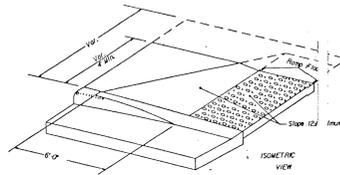
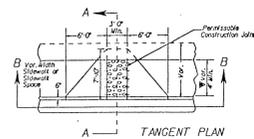
- NOTES:**
1. THE WOODEN LINE POSTS SHALL BE A MINIMUM LENGTH OF 5'-0" LINE POSTS, FLANGED 'U' TYPE, OR 'T' TYPE MAY BE USED AT CONTRACTOR'S OPTION (MINIMUM WEIGHT 133 lbs./ft., 5'0" LONG).
  2. WOVEN WIRE FENCE MAY BE USED TO SUPPORT THE FILTER FABRIC.
  3. WOVEN WIRE AND FILTER FABRIC SHALL BE STAPLED OR OTHERWISE SUITABLY ATTACHED TO THE SUPPORTING POSTS AND/OR WIRE. (STD & SPEC. 3.05)

**· SILT FENCE DETAIL ·**  
NO SCALE



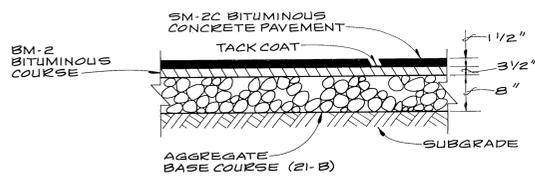
**NOTE:** WHERE DRY CURB & GUTTER IS TO BE INSTALLED, SLOPE GUTTER AWAY FROM CURB TO MATCH PAVING SLOPE. CONTRACTOR TO CONTACT ARCHITECT PRIOR TO POURING CURB AND GUTTER TO VERIFY LOCATION OF DRY GUTTER.

**· COMBINATION CURB AND GUTTER ·**  
NO SCALE

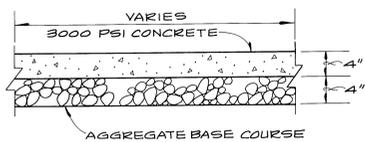


**DETECTABLE WARNINGS ON WALKING SURFACES SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.3 IN. (8MM), A HEIGHT OF NOMINAL 0.2 IN. (5MM) AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 IN. (60MM) AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK OR DARK-ON-LIGHT.**

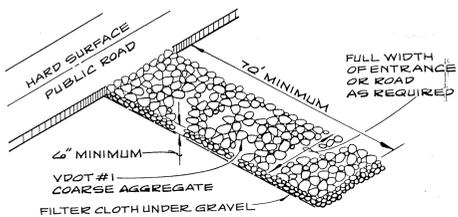
**· HANDICAP CURB RAMP ·**  
NO SCALE



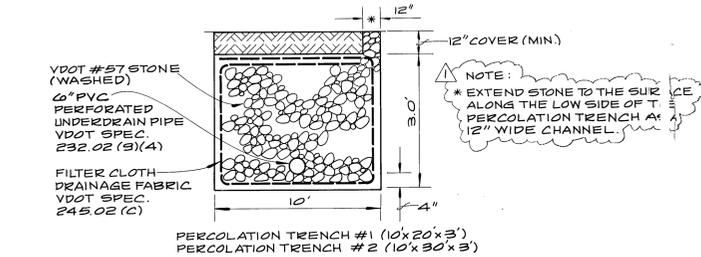
**· PVT 'A' ·**  
**TYPICAL ASPHALT PAVING SECTION**  
NO SCALE



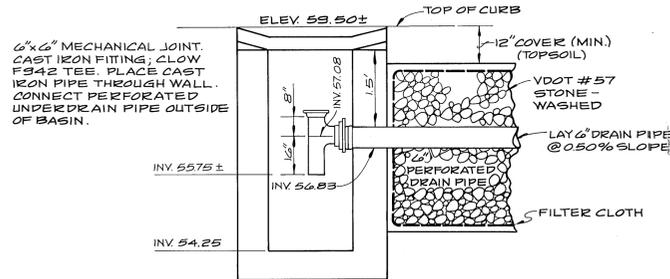
**· TYPICAL SIDEWALK SECTION ·**  
NO SCALE



**· ST'D & SPEC. 3.02 ·**  
**TEMPORARY GRAVEL CONSTRUCTION ENTRANCE**  
NO SCALE



**· SECTION - PERCOLATION TRENCH ·**  
SCALE: 1" = 2'



**· OUTLET ELEVATION DETAIL ·**  
**BASIN #2 TO PERCOLATION TRENCH #1**  
NO SCALE

- EROSION AND 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 INEFFECTIVENESS OF THE PLAN, THE CONTRACTOR SHALL BE THOROUGHLY FAMILIAR WITH ALL APPLICABLE MEASURES CONTAINED THEREIN WHICH MAY BE PERTINENT TO THIS PROJECT.
1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE "MINIMUM EROSION AND SEDIMENT CONTROL REGULATIONS" FOR THE STATE OF VIRGINIA. 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 DICES, 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 SURFACE LAND DISTURBANCE TAKES PLACE. EXISTING STRUCTURES SUCH AS DAMS, DICES, AND DIVERSIONS MUST BE SEEDED AND MAINTAINED IMMEDIATELY AFTER CONSTRUCTION. ALL PRE-CONSTRUCTION MEETINGS WILL BE HELD BETWEEN THE OFFICE OF CODE COMPLIANCE AND THE CONTRACTOR TO IDENTIFY THOSE MEASURES TO BE INITIALLY INSTALLED.
  4. MAINTENANCE OF EROSION AND SEDIMENT CONTROL MEASURES SHALL 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 DIRT AND FILL SLOPES SHALL BE CONTROLLED BY EITHER REDIRECTING FLOWS FROM TRANSFERRING THE FLOWS BY INSTALLING MECHANICAL DEVICES TO LOWER WATER DOWNDROPE WITHOUT CAUSING EROSION. A TEMPORARY FILL DIVERSION (SDC & SPEC. 1.16) 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 PLACE SOIL STOCKPILES AT THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. SOIL STOCKPILES SHALL BE STABILIZED OR PROTECTED WITH SEDIMENT TRAPPING MEASURES.
  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, OR PAVED DITCHES FROM DRAINAGE STOCKPILES SHALL BE STABILIZED IMMEDIATELY AFTER CONSTRUCTION. THE CONTRACTOR SHALL MAINTAIN ALL DRAINAGE FACILITIES THROUGHOUT THE PROJECT. 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 7 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 DENuded (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 FEET OF DENuded AREA, STORM SEWER, WATERLINES OR UNDERGROUND UTILITY LINES ARE TO BE OPEN AT ONE TIME. FOLLOWUP INSTALLATION OF ANY PORTION OF THESE ITEMS, ALL DISTURBED AREAS ARE TO BE RESEED/STABILIZED (IN 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 SEEDING CONTAINING THE SPECIFIED AMOUNTS OF SEED, LIME, AND FERTILIZER IN ACCORDANCE WITH SPECIFICATION 1.96. 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 EXCELSOR 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 1.04 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 WHEREVER EROSION IS EVIDENT. PARTICULAR ATTENTION SHALL BE PAID TO THOSE AREAS WHERE GRADES EXCEED 3 PERCENT.
  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 SEEDS.
  18. OFF-SITE WASTE OR BORROW AREAS SHALL BE APPROVED BY THE OFFICE OF CODE COMPLIANCE PRIOR TO THE IMPORT OF ANY BORROW OR EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.
  19. ALL PAVED AND/OR PAVED OUTFALLS WILL BE CONSTRUCTED BEFORE ROAD GRADING AND UTILITY INSTALLATION BEGINS.

**FIRE LANE REQUIREMENTS**

- 1) FIRE LANES SHALL BE 18 FEET IN WIDTH AS SHOWN ON PLAN.
- 2) MARKING OF THE FIRE LANE SHALL BE:
  - a) 4 INCH "TRAFFIC YELLOW" PAINTED STRIPING TO INDICATE OUTERMOST BOUNDARIES.
  - b) CURBS SHALL BE PAINTED "TRAFFIC YELLOW".
  - c) THE WORDS "FIRE LANE" AND "NO PARKING" SHALL BE PAINTED IN "TRAFFIC YELLOW" WITH LETTERS AT LEAST 18 INCHES IN HEIGHT WITH A STROKE WIDTH OF NO LESS THAN 2 INCHES AND SUCH WORDS SHALL BE LOCATED WITHIN THE BOUNDS OF THE FIRE LANE IDENTIFIED BY THE STRIPING MENTIONED IN 2.a. AND 2.b. AND SHALL NOT EXCEED 100 FOOT INTERVALS.
  - d) 4 INCH DIAGONAL STRIPING SHALL BE PAINTED "TRAFFIC YELLOW" AT A 45 DEGREE FROM THE CURB AND SPACED 2 FEET APART.
- 3) SIGNS SHALL BE INSTALLED AND INDICATE "FIRE LANE" AND "NO PARKING" WITH THE FOLLOWING REQUIREMENTS:
  - a) SIGNS SHALL BE APPROVED BY THE FIRE MARSHALL PRIOR TO INSTALLATION.
  - b) BOTTOM OF THE SIGN SHALL BE NO LOWER THAN 4 FEET AND NO HIGHER THAN 7 FEET ABOVE FINISHED GRADE.
  - c) SIGN SHALL BE INSTALLED NO FURTHER THAN 3 FEET FROM THE CURB.
  - d) SUCH SIGNS SHALL BE LOCATED AT INTERVALS NOT TO EXCEED 100 FEET.

**BOND COMET WESTMORELAND HINER**

207 West Broad Street  
Richmond, Virginia 23220  
804 788-4778

**SITE IMPROVEMENTS**  
**CLARA BYRD BAKER ELEMENTARY SCHOOL**

WILLIAMSBURG - JAMES CITY COUNTY PUBLIC SCHOOLS

Bond Comet Westmoreland + Hiner Architects, Inc.  
1000 West Broad Street, Suite 200, Richmond, VA 23220  
804 788-4778

PROJECT NUMBER:  
9219

PROJECT MANAGER:  
CDF

DRAWN BY:  
CAJ

ISSUE DATE:  
11 JUNE 1993

REVISIONS:  
7.14.93

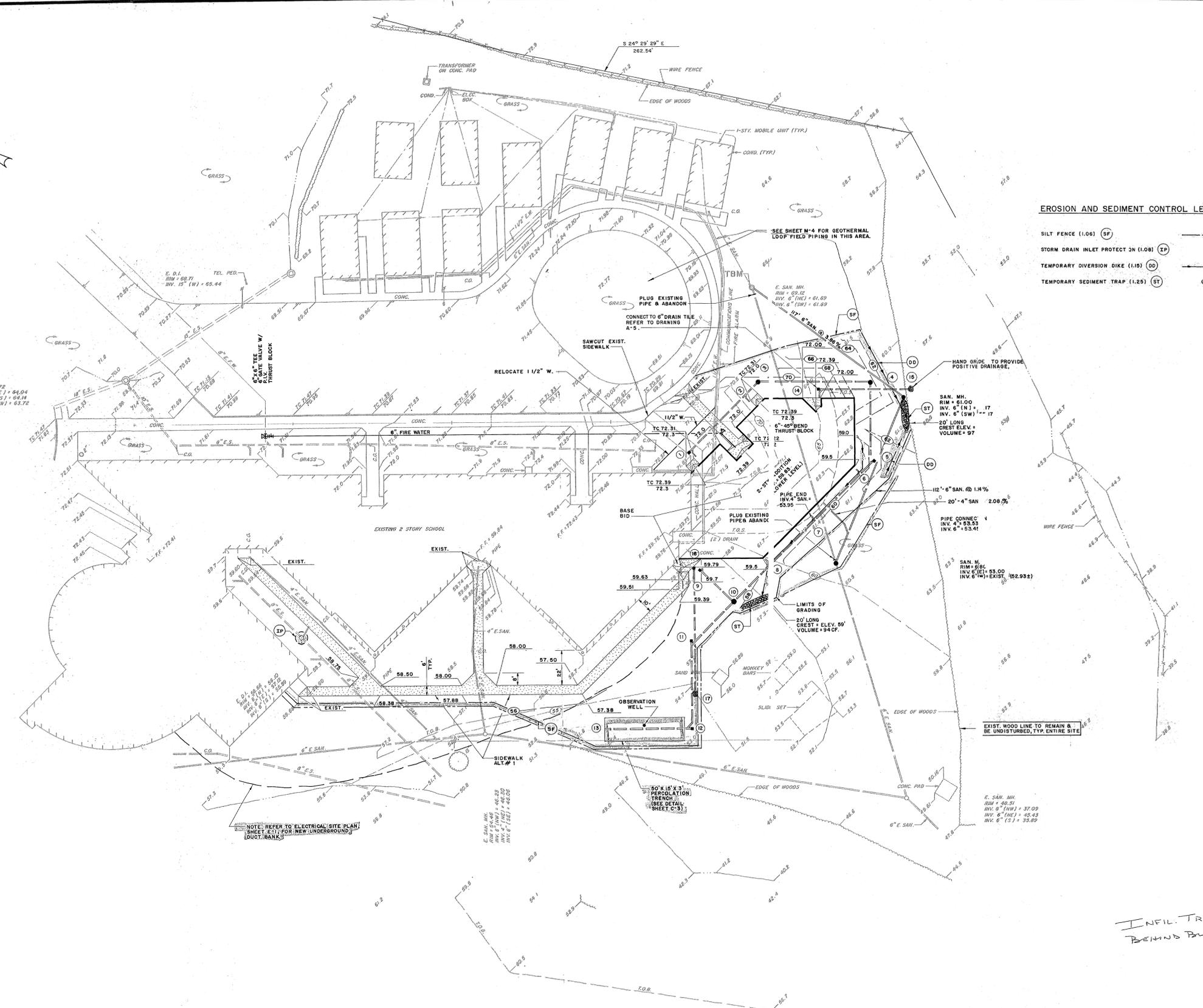
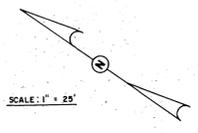
SHEET TITLE:  
· NOTES AND DETAILS ·

SHEET NUMBER:  
C-5

**C-5**



SCALE: 1" = 25'



EROSION AND SEDIMENT CONTROL LEGEND

- SILT FENCE (1.08) (SF)
- STORM DRAIN INLET PROTECT ON (1.08) (IP)
- TEMPORARY DIVERSION DIKE (1.15) (DD)
- TEMPORARY SEDIMENT TRAP (1.25) (ST)

C. ALLAN BAMFORTH, JR.  
ENGINEER-SURVEYOR, LTD.  
NORFOLK, VIRGINIA



WJC  
WILLIAM BYRD BAKER ELEMENTARY SCHOOL  
James City County Public Schools  
Williamsburg, James City County Public Schools

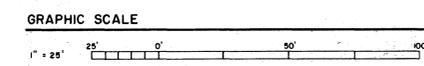
ADDITION TO  
CLARA BYRD BAKER ELEMENTARY SCHOOL  
JAMES CITY COUNTY, VIRGINIA  
State Project Number 131-4B

SHRIVER AND HOLLAND ASSOCIATES  
Architects  
Planners  
Project Coordinators

355 W. Freemason Street  
Norfolk, Virginia 23510  
804/627-4525

COMM: \_\_\_\_\_  
FILE: \_\_\_\_\_  
SHEET: \_\_\_\_\_

C-2  
39 of 39



INFIL. TRENCH  
BEHIND BLDG.

NOTE: REFER TO ELECTRICAL SITE PLAN  
SHEET E-1 FOR NEW UNDERGROUND  
DUCT BANKS

E. SAN. MH.  
RIM = 48.29  
INV. 6" (NW) = 48.00  
INV. 6" (SE) = 48.00  
INV. 6" (SW) = 48.00

E. SAN. MH.  
RIM = 48.51  
INV. 6" (NW) = 37.00  
INV. 6" (SE) = 45.43  
INV. 6" (SW) = 35.89

E. SAN. MH.  
RIM = 61.00  
INV. 6" (NW) = 17  
INV. 6" (SW) = 17  
20' LONG  
CREST ELEV. = 97

112" 6" SAN. @ 1.14%  
20' 4" SAN. @ 2.08%  
PIPE CONN. 4  
INV. 4" = 53.55  
INV. 6" = 53.41

6" 45° BEND  
THRUST BLOCK  
TC 72.31  
72.3

E. SAN. MH.  
RIM = 60.12  
INV. 6" (NW) = 61.69  
INV. 6" (SW) = 61.69

SEE SHEET M-4 FOR GEOTHERMAL  
LOOP FIELD PIPING IN THIS AREA.

PLUG EXISTING  
PIPE & ABANDON  
CONNECT TO 6" DRAIN TILE  
REFER TO DRAWING  
A-5

RELOCATE 1 1/2" W.

6" X 6" TEE VALVE W/  
6" X 6" TEE  
THRUST BLOCK

E. DI.  
RIM = 59.72  
INV. 15" (E) = 64.04  
INV. 12" (S) = 64.04  
INV. 18" (W) = 63.72

E. DI.  
RIM = 58.80  
INV. 15" (E) = 63.80  
INV. 12" (S) = 63.80  
INV. 18" (W) = 63.50

E. DI.  
RIM = 58.80  
INV. 15" (E) = 63.80  
INV. 12" (S) = 63.80  
INV. 18" (W) = 63.50

E. DI.  
RIM = 58.80  
INV. 15" (E) = 63.80  
INV. 12" (S) = 63.80  
INV. 18" (W) = 63.50

E. DI.  
RIM = 58.80  
INV. 15" (E) = 63.80  
INV. 12" (S) = 63.80  
INV. 18" (W) = 63.50

50' X 15' X 3'  
PERCOLATION  
TRENCH  
(SEE DETAIL  
SHEET C-3)

OBSERVATION  
WELL

SIDEWALK  
ALT. #1

EXISTING 2 STORY SCHOOL

RELOCATE 1 1/2" W.

PLUG EXISTING  
PIPE & ABANDON  
CONNECT TO 6" DRAIN TILE  
REFER TO DRAWING  
A-5

TRANSFORMER  
ON CONC. PAD

COND. ELEC. BOX

COND. (TYP.)

**EROSION AND 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.
- N.I.C. 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 VDH&T IS REQUIRED PRIOR TO ANY CONSTRUCTION ACTIVITIES WITHIN STATE RIGHT-OF-WAYS.
3. SEDIMENT CONTROL DEVICES, SUCH AS SEDIMENT BASINS AND TRAPS, PERIMETER DIKES, CHECK DAMS OR OTHER MEASURES NOT LOCATED IN PROPOSED FILL OR EXCAVATION AREAS, SHALL BE CONSTRUCTED PRIOR TO ALL OTHER LAND DISTURBANCE. AN ON-SITE PRE-CONSTRUCTION MEETING WILL BE HELD BETWEEN THE DEPARTMENT OF PUBLIC WORKS 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 PUBLIC WORKS 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 DOWN SLOPE WITHOUT CAUSING EROSION. A TEMPORARY FILL DIVERSION (STD. & SPEC. 1.16) 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. DEPARTMENT OF PUBLIC WORKS APPROVAL WILL BE REQUIRED FOR OTHER DEVIATIONS FROM THE APPROVED PLANS.
7. THE CONTRACTOR SHALL STRIP AND FILL TOPSOIL AT THE LOCATIONS SHOWN ON THIS PLAN OR AS DIRECTED BY THE ENGINEER. SIFT 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 STONE WHERE REQUIRED.
9. TEMPORARY VEGETATIVE COVER SHALL BE PROVIDED IN ALL AREAS WHICH ARE NOT DESIGNATED FOR PAVING, UNDERGROUND UTILITIES OR STRUCTURAL USES IN ACCORDANCE WITH SPECIFICATION 1.65, TEMPORARY SEEDING. SUCH AREAS SHALL NOT BE EXPOSED FOR PERIODS EXCEEDING 30 DAYS. TEMPORARY VEGETAL COVER MAY BE ELIMINATED IN FAVOR OF FINAL VEGETAL COVER IF CONSTRUCTION AND SEASONAL CONDITIONS PERMIT.
10. 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.
11. 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 1.66. PERMANENT SEEDING. IRRIGATION SHALL BE REQUIRED AS NECESSARY TO ENSURE ESTABLISHMENT OF GRASS COVER.
12. 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.
13. INLET PROTECTION IN ACCORDANCE WITH SPECIFICATION 1.08 SHALL BE PROVIDED FOR ALL STORM DRAIN INLETS AS SOON AS PRACTICAL FOLLOWING CONSTRUCTION OF SAME.
- N.I.C. 14. PAVED DITCHES SHALL BE REQUIRED WHEREVER EROSION IS EVIDENT. PARTICULAR ATTENTION SHALL BE PAID TO THOSE AREAS WHERE GRADES EXCEED 3%.
15. 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.
16. OFF-SITE WASTE OR BORROW AREAS SHALL BE APPROVED BY JAMES CITY COUNTY PRIOR TO THE IMPORT OF ANY BORROW OR EXPORT OF ANY WASTE TO OR FROM THE PROJECT SITE.

**PERMANENT SEEDING:** DISTURBED AREAS SHALL BE SEEDDED WITHIN 3 DAYS OF THE LAND DISTURBING ACTIVITY IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:

**PREPARATION OF GROUND SURFACE -**

- A. PRIOR TO GRADING AND TILLING, VEGETATION THAT MAY INTERFERE WITH OPERATIONS SHALL BE MOWED, GRUBBED, AND RAKED. THE SURFACE SHALL BE CLEARED OF STUMPS, STONES LARGER THAN 1/2 INCH IN DIAMETER, AND OTHER MATERIALS THAT MIGHT HINDER THE WORK OR SUBSEQUENT MAINTENANCE.
- B. PREVIOUSLY ESTABLISHED GRADES SHALL BE MAINTAINED ON THE AREAS TO BE TREATED IN A TRUE AND EVEN CONDITION. NECESSARY REPAIRS SHALL BE MADE OF PREVIOUSLY GRADED AREAS.
- C. SOIL SHALL BE RAKED UNTIL THE CONDITION OF THE SOIL IS ACCEPTABLE; UNDULATIONS OR IRREGULARITIES SHALL BE LEVELLED.
- D. TOPSOIL FOR REPAIRS AND FOR FILLING DEPRESSIONS SHALL BE PROVIDED FROM OFF-SITE SOURCES.
- E. FERTILIZER (10-10-10) SHALL BE DISTRIBUTED UNIFORMLY AT A RATE OF 25 POUNDS PER 1,000 SQUARE FEET.
- F. LIME (PULVERIZED AGRICULTURAL DOLOMITE) SHALL BE DISTRIBUTED UNIFORMLY AT A RATE OF 65 LBS. PER 1,000 SQUARE FEET. LIME AND FERTILIZER SHALL BE INCORPORATED INTO THE TOP 4-6 INCHES OF THE SOIL BY DISCHARGING OR OTHER MEANS. WHEN APPLYING LIME AND FERTILIZER WITH A HYDROSEEDER, APPLY TO A ROUGH, LOOSE SURFACE.
- G. SEED LABELED IN ACCORDANCE WITH U.S. DEPARTMENT OF AGRICULTURAL RULES AND REGULATION UNDER THE FEDERAL SEED ACT SHALL BE FURNISHED. SEED MIXTURE AND SEED RATE SHALL BE AS FOLLOWS:

- TALL FESCUE - 50%  
 SERICIA LESPEDEZA - 30%  
 ANNUAL RYE GRASS - 20%

- H. SEEDED AREAS SHALL BE MULCHED WITH THRESHED STRAW OF CEREAL GRAINS SUCH AS OATS, WHEAT, BARLEY, RYE, ETC.; GRASS HAY; WOOD CHIPS; OR WOOD FIBER. MATERIALS THAT CONTAIN OBJECTIONABLE WEED SEEDS OR OTHER SPECIES THAT MIGHT BE DETRIMENTAL TO THE PLANTING BEING ESTABLISHED OR TO ADJACENT LAWS, WILL NOT BE ACCEPTABLE. STRAW OR MULCH SHALL BE APPLIED AT A RATE OF 70 POUNDS PER 1,000 SQUARE FEET BY BLOWER OR HAND. STRAW MULCH SHALL BE ANCHORED IMMEDIATELY AFTER SPREADING TO PREVENT WIND-BLOW. ACCEPTABLE METHODS OF ANCHORING INCLUDE A MULCH ANCHORING POOL, LIQUID FIBER BINDERS, MULCH NETTING, AND PEG AND TWINE. WOOD FIBER MULCH SHALL BE APPLIED AT A RATE OF 35 POUNDS PER 1,000 SQUARE FEET.

**TEMPORARY SEEDING:** TEMPORARY VEGETATIVE COVER SHALL BE PROVIDED IN ALL AREAS WHICH ARE NOT DESIGNATED FOR PAVING, UNDERGROUND UTILITIES OR STRUCTURAL USES IN ACCORDANCE WITH SPECIFICATION 1.65, TEMPORARY SEEDING. SUCH AREAS SHALL NOT BE EXPOSED FOR PERIODS EXCEEDING 30 DAYS. TEMPORARY VEGETAL COVER MAY BE ELIMINATED IN FAVOR OF FINAL VEGETAL COVER IF CONSTRUCTION AND SEASONAL CONDITIONS PERMIT.

**GENERAL NOTES:**

1. THE CONTRACTOR SHALL CALL MISS UTILITY AT 1-800-552-7001, NOT LESS THAN 10 DAYS PRIOR TO CONSTRUCTION FOR LOCATION OF EXISTING UTILITIES.
2. ALL SEWER CONSTRUCTION METHODS AND MATERIALS SHALL CONFORM TO JAMES CITY SEWER AUTHORITY STANDARDS EXCEPT AS MODIFIED HEREIN.
3. ALL CONCRETE SHALL BE CLASS "A3" AIR-ENTRAINED (3,000 P.S.I.) UNLESS OTHERWISE INDICATED.
4. THE CONTRACTOR SHALL REPLACE WITH MATCHING MATERIALS ALL ITEMS CUT OR DAMAGED DURING CONSTRUCTION, INCLUDING BUT NOT LIMITED TO PAVEMENT, DRIVEWAYS, WALKS, CURB, ETC.
5. THE OWNER SHALL MAINTAIN ALL PORTIONS OF THE PRIVATE DRAINAGE, WATER AND SANITARY SYSTEM.
6. ALL EROSION AND SEDIMENT CONTROL DEVICES SHALL BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH THE VIRGINIA EROSION & SEDIMENT CONTROL HANDBOOK, DATED 1980.
7. ALL STORM SEWER PIPES AND STRUCTURES SHALL BE CLEARED OF DEBRIS AND ERODED MATERIAL AT LAST STAGES OF CONSTRUCTION.
8. ALL UTILITIES TO SERVE THE SITE SHALL BE PLACED UNDERGROUND.

**STORM SEWER DATA**

**STRUCTURE DATA**

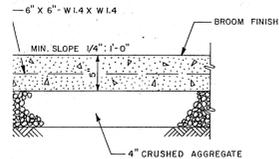
- 1 S. CLEAN-OUT  
 INV. 4" = 66.86  
 INV. 6" = 66.78
- 2 PIPE CONNECTION  
 INV. 4" = 66.34  
 INV. 6" = 66.26
- 3 S. MH.  
 RIM = 72.60  
 INV. 6" (W) = 66.14  
 INV. 6" (SE) = 62.14
- 4 S. MH.  
 RIM = 65.00  
 INV. 6" (NW) = 61.40  
 INV. 6" (SW) = 56.51
- 5 S. CLEAN-OUT  
 INV. 4" = 55.99  
 INV. 8" = 55.91
- 6 PIPE CONNECTION  
 INV. 4" = 55.98  
 INV. 8" = 55.81
- 7 PIPE CONNECTION  
 INV. 4" = 55.55  
 INV. 8" = 55.38
- 8 PIPE CONNECTION  
 INV. 4" = 55.13  
 INV. 8" = 54.96
- 9 S. CLEAN-OUT  
 INV. 4" = 55.48  
 INV. 6" = 55.40
- 10 S. MH.  
 RIM = 58.00  
 INV. 6" = 55.09  
 INV. 8" = 54.60  
 INV. 10" = 51.04
- 11 S. CLEAN-OUT  
 INV. = 50.86
- 12 S. CLEAN-OUT  
 INV. = 50.59
- 13 PIPE END  
 INV. 10" = 50.30
- 14 S. CLEAN-OUT  
 INV. = 59.83
- 15 PIPE END  
 INV. 6" = 59.26  
 VDOT EC-1 RIP-RAP
- 16 S. CLEAN-OUT  
 INV. = 58.50
- 17 PIPE END  
 INV. 6" = 54.00  
 VDOT EC-1 RIP-RAP

**PIPE DATA**

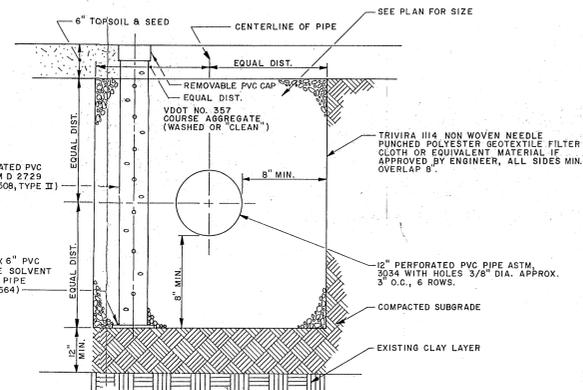
- 1 - 2 50' - 6" S. @ 1.04%
- 2 - 3 12' - 6" S. @ 1.04%
- 3 - 4 71' - 6" S. @ 1.04%
- 4 - 5 50' - 6" S. @ 1.04%
- 5 - 6 10' - 8" S. @ 1.04%
- 6 - 7 41' - 8" S. @ 1.04%
- 7 - 8 40' - 8" S. @ 1.04%
- 8 - 10 35' - 8" S. @ 1.04%
- 9 - 10 30' - 6" S. @ 1.04%
- 10 - 11 35' - 10" S. @ 0.52%
- 11 - 12 52' - 10" S. @ 0.52%
- 13 - 14 55' - 10" S. @ 0.52%
- 14 - 15 50' - 6" S. @ 1.04%
- 16 - 17 78' - 6" S. @ 5.6%

**NOTE:**

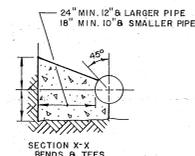
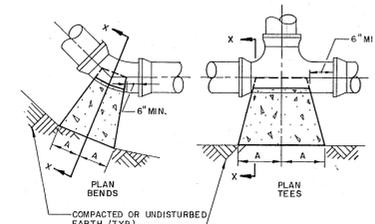
STORM CLEAN-OUTS SHALL BE AS SHOWN IN JAMES CITY SERVICE AUTHORITY (JCSA) STANDARDS DRAWING NUMBER S-1.0. CLEAN-OUTS SHALL HAVE COVER, REFER TO DRAWING NUMBER S-1.1. STORM MANHOLES SHALL BE VDOT MH-1. SANITARY MANHOLES SHALL BE AS INDICATED ON JCSA DRAWING NUMBER S-5.0.



**CONCRETE WALK DETAIL**  
 N.T.S.



**PERCOLATION TRENCH DETAIL**  
 N.T.S.



SIZE	1/4 BENDS		TEES	
	A	B	A	B
6"	16"	10"	10"	12"

**THRUST BLOCKS**  
 N.T.S.

C. ALLAN BAMFORTH, JR.  
 ENGINEER-SURVEYOR, LTD.  
 NORFOLK, VIRGINIA



WJC  
 WILLIAMSBURG - JAMES CITY COUNTY PUBLIC SCHOOLS

ADDITION TO  
 CLARA BYRD BAKER ELEMENTARY SCHOOL  
 JAMES CITY COUNTY, VIRGINIA

State Project Number: 131-4B

SHRIVER AND HOLLAND ASSOCIATES

355 W. Freemason Street  
 Norfolk, Virginia 23510  
 804/627/4525

Comm:  
 File:  
 Sheet

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