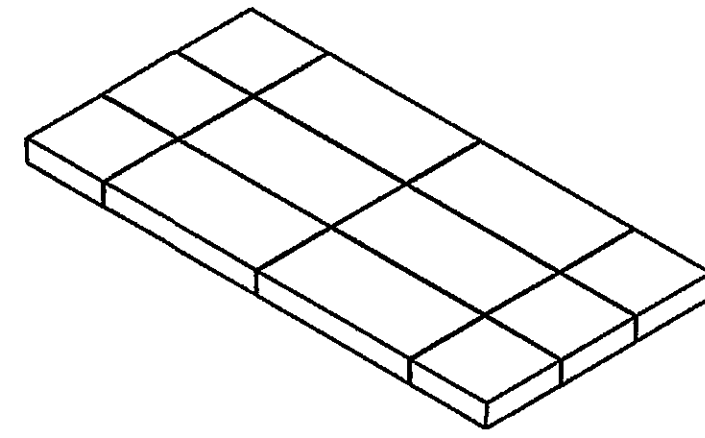


STORMTRAP™

PRECAST CONCRETE MODULAR STORM WATER DETENTION



ROANOKE PROJECT ROANOKE, VA

SHEET INDEX		
PAGE	DESCRIPTION	REV.
1	TITLE SHEET	1
2	SINGLETRAP INSTALLATION SPECIFICATIONS	1
2.1	SINGLETRAP INSTALLATION SPECIFICATIONS	1
2.2	SINGLETRAP INSTALLATION SPECIFICATIONS	1
3	LAYOUT DETAIL	1
3.1	SINGLE TRAP INSTALLATION SPECIFICATIONS	1
4	STANDARD - 2'-0" SINGLETRAP TYPE I	1
5	STANDARD - 2'-0" SINGLETRAP TYPE II	1
6	STANDARD - 2'-0" SINGLETRAP TYPE III	1
7	STANDARD - 2'-0" SINGLETRAP TYPE IV	1
8	STANDARD - 2'-0" SINGLETRAP TYPE V	1

JOB SITE INFORMATION	
DESCRIPTION	
JOB NAME:	ROANOKE PROJECT
JOB ADDRESS:	ROANOKE, VA
ENGINEERING CO:	ACS DESIGN
CONTACT NAME:	KEVIN LEAHY
CONTACT PHONE:	540-562-2345
CONTACT FAX:	540-562-2344
STORM TRAP SUPPLIER:	STORMTRAP
CONTACT NAME:	ANDREA SHERWOOD
CONTACT PHONE:	815-441-4663
CONTACT FAX:	815-416-1100
WATER STORAGE REQD:	1,400.00 CUBIC FEET
WATER STORAGE PROV:	1,515.00 CUBIC FEET
UNIT HEADROOM:	2'-0" SINGLETRAP
UNIT QUANTITY:	12 UNITS - 12 TOTAL PIECES

STORMTRAP™
PRECAST CONCRETE MODULAR STORM WATER DETENTION

P.O. BOX 782
MORRIS, IL 60450
1-87-STORMTRAP

ENGINEER INFORMATION:

ACS DESIGN
2203 PETERS CREEK RD
ROANOKE, VA 24017
Phone: 540-562-2345
Fax: 540-562-2344

PROJECT INFORMATION:

ROANOKE PROJECT
ROANOKE, VA
AS-1647-VA-06

CURRENT ISSUE DATE:

02/23/06

APPROVED BY:

ISSUED FOR:

PRELIMINARY

REV: DATE: DESC. BY:

02/23/06 ISSUED FOR PRELIMINARY AS

SCALE:

NTS

SHEET TITLE:

COVER SHEET

SHEET NUMBER:

01

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PRECAST CONCRETE MODULAR STORM WATER DETENTION

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SCALE:

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SHEET TITLE:

SINGLETRAP
INSTALLATION
SPECIFICATIONS

SHEET NUMBER:

02

STORMTRAP INSTALLATION SPECIFICATION

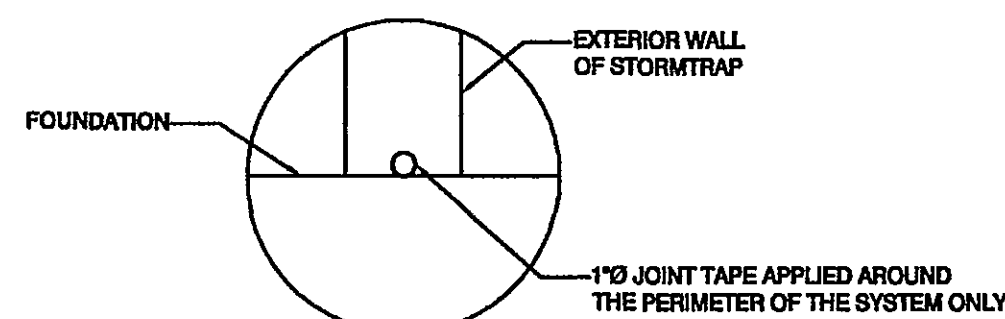
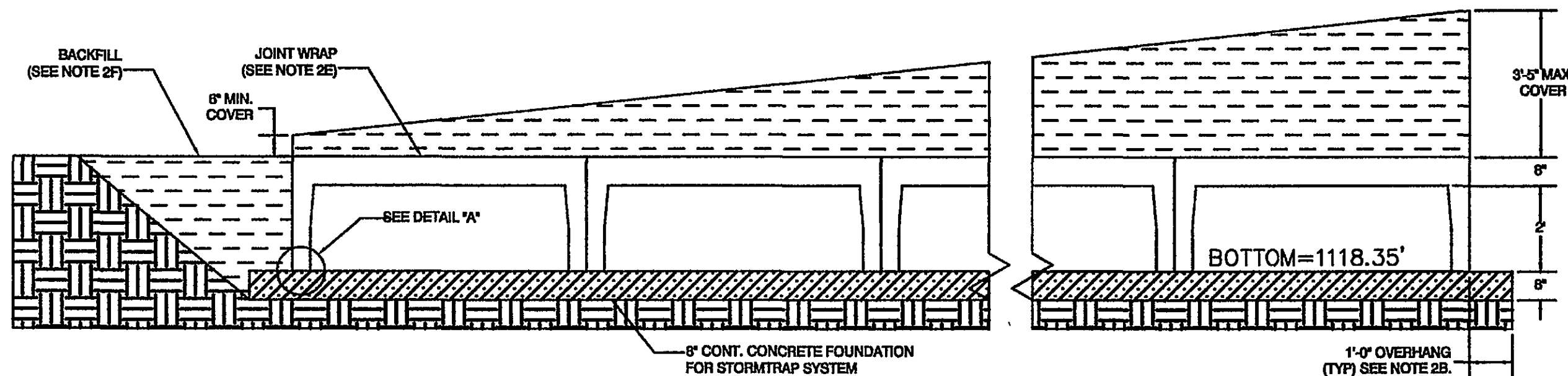
- STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY THE INSTALLING CONTRACTOR AND ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ROOF OPENINGS AND INLET/OUTLET PIPE OPENINGS.
- STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-00, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
 - SPECIFICATIONS ON THE ENGINEERS DRAWINGS SHALL TAKE PRECEDENCE.
 - STORMTRAP MODULES SHALL BE PLACED ON LEVEL FOUNDATION (SEE SHEET 3.1) WITH A 1'-0" OVERHANG ON ALL SIDES THAT SHALL BE POURED IN A PLACE BY INSTALLING CONTRACTOR.
 - THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.

- THE PERIMETER HORIZONTAL JOINT OF THE STORMTRAP MODULES SHALL BE SEALED TO THE FOOTINGS WITH PREFORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891-00, 8.8 AND 8.12.
- ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH 1'-0" EXTERNAL SEALING BANDS CONFORMING TO ASTM C881-00 AND SHALL BE 1'-0" RUBBER BUTYL SEALANT AS APPROVED BY STORMTRAP. THE JOINT WRAP BUTYL EXTERIOR WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 - USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
 - A RELEASE PAPER PROTECTS THE BUTYL SEALANT SIDE OF THE JOINT WRAP. WRAP THE BUTYL TAPE (BUTYL SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.

- THE FILL PLACED AROUND THE STORMTRAP UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, AND ALL SLOPES BOUNDING OR WITHIN THE AREA TO BE BACK FILLED MUST BE STEPPED OR SEPARATED TO PREVENT WEDGE ACTION. (REFERENCE ARTICLE 502.10 I.D.O.T. S.S.R.B.C.) CARE SHALL ALSO BE TAKEN AS NOT TO DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACK FILL PROCESS.

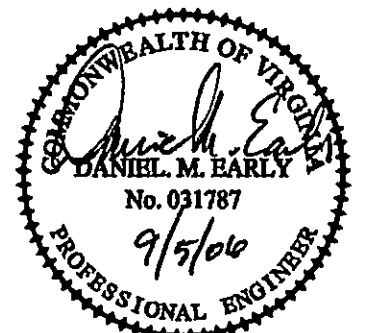
STORMTRAP SPECIFICATION

- TOTAL COVER: MIN. 0'-6" MAX. 3'-6" CONSULT STORMTRAP FOR ADDITIONAL COVER OPTIONS.
- CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 WHEEL LOAD & APPLICABLE IMPACT.
- FOR STRUCTURAL CALCULATIONS THE VERTICAL AND LATERAL SOIL PRESSURE IS ASSUMED TO BE 120 PCF.
- FOR STRUCTURAL CALCULATIONS THE WATER TABLE IS ASSUMED TO BE 3'-0" BELOW GRADE. IF WATER TABLE IS LESS THAN 3'-0" BELOW GRADE, CONSULT STORMTRAP.
- STORMTRAP IS NOT WATERTIGHT - PLEASE ADVISE IF A WATERTIGHT SOLUTION IS NEEDED.



DETAIL "A"
JOINT TAPE INSTALLATION

2'-0" SINGLETRAP



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VISTAR EYE CENTER
SITE PLAN
ROANOKE COUNTY, VIRGINIA

DRAWN BY: SFE

DESIGNED BY: SFE

CHECKED BY: SFE

DATE: 03/28/2006

SCALE: NONE

REVISIONS

DATE	REVISION	COMMENT

SHEET No.

C1.10

UNDERGROUND STORM WATER
BASIN NOTES AND DETAILS

JOB No. 06005