

**ADDENDUM NO. 1
TO SPECIFICATIONS AND PLANS FOR THE
SOUTH BLOOMFIELD HIGHLANDS WATER MAIN
BLOOMFIELD TOWNSHIP
OAKLAND COUNTY, MICHIGAN**

Date: August 12, 2024

HRC Job No. 20220693

This Addendum is issued prior to receipt of bids to provide for certain changes and clarifications to the Specifications and/or the Plans, as herein specified, and is hereby made a part of the Contract Documents and shall be taken into consideration in preparing the Proposal. The General Conditions and Specifications for the original work and the Contract Drawings are to govern this work unless otherwise revised herein. All other conditions remain the same. **Please note that sealed proposals still must be received on or before 10:00 am, Local Time on Tuesday, August 20, 2024.**

The Bidder shall acknowledge the receipt of this Addendum by signing the Addendum and enclosing it in the submission of his bids. This must also be acknowledged on Page 5 of the Proposal. Failure to enclose Addendum No. 1 in the submission of bids may be justification for the bid proposal being rejected as non-responsive.

The following lists the extent of this Addendum. Description of the changes or clarifications are given within each heading:

CONTRACTOR QUESTIONS:

- Q: If a new stop box excavation is left exposed for a resident to have their plumber come in and make the connection to the existing water service line, how will restoration be handled in that case?
A: The Contractor will be responsible for all restoration work in the right-of-way and up to the property line as well as any damage done by the Contractor within private property. The residents and their plumbers will be responsible for any restoration on private property resulting from their private water service connection being made by their plumber.
- Q: Is the Contractor responsible for service line replacement if a water service line is found to be lead?
A: No, the Contractor should contact the Township DPW who will complete the lead service line replacement if such a situation arises.
- Q: How many lineal feet of water main will need to be abandoned?
A: Approximately 14,000 lineal feet of mostly four (4") inch main with six (6") inch water main on Somerset Rd.

PRE-BID MEETING INFORMATION:

- The Pre-Bid Meeting Minutes and Sign-In Sheet (Issued) – Attached herewith are the meeting minutes from the Pre-bid meeting held on August 7, 2024. A copy of the Pre-bid meeting sign-in sheet has been included. Contractor questions and responses are listed above. No additional questions have been submitted to HRC at this time. Answers provided to bidder questions shall be considered conditions of the contract and considered in the preparation of bids.

Delhi Township
2101 Aurelius Rd.
Suite 2A
Holt, MI 48842
517-694-7760

Detroit
535 Griswold St.
Buhl Building, Ste 1650
Detroit, MI 48226
313-965-3330

Grand Rapids
801 Broadway NW
Suite 215
Grand Rapids, MI 49504
616-454-4286

Howell
105 W. Grand River
Howell, MI 48843
517-552-9199

Jackson
401 S. Mechanic St.
Suite B
Jackson, MI 49201
517-292-1295

Kalamazoo
834 King Highway
Suite 107
Kalamazoo, MI 49001
269-665-2005

Lansing
215 S. Washington SQ
Suite D
Lansing, MI 48933
517-292-1488

DRAWINGS:

Sheet 49 – Bloomfield Township Water Main Standard Details

- Plan sheet has been added to the Drawings. Please note that the Bloomfield Township standard hydrant requirements were revised on August 8, 2024. New hydrants shall have 2-way nozzles. Pumper nozzles shall include a three and three-quarter (3-3/4) inch DFD and a five (5) inch Storz. East Jordan 5BR250 Watermaster Fire Hydrant Product: 55972D.

Sheet 50 – Bloomfield Township Sanitary Sewer Standard Details

- Plan sheet has been added to the Drawings.

Sheet 51 – Bloomfield Township Storm Sewer Standard Details

- Plan sheet has been added to the Drawings.

Sheet 52 – OCWRC Soil Erosion & Sedimentation Control (S.E.S.C.) Standard Details

- Plan sheet has been added to the Drawings.

SUMMARY:

This Addendum No. 1 has been issued in order to clarify, modify and add additional items to the original Bid Package. The Bidder shall acknowledge receipt of this Addendum No. 1 by signing in the location provided below and incorporating this Addendum No. 1 with the submission of his bid. Failure to include Addendum No. 1 and its attachments may result in rejection of the bid.

Respectfully submitted,

HUBBELL, ROTH & CLARK, INC.



Karyn M. Stickel, P.E.
Senior Associate



Christopher N. Ross, P.E.
Project Engineer

pc: All plan holders
Bloomfield Township; Mr. R. Corey Almas, P.E., Ms. Angela Hysinger, P.E., Mr. Paul Palace
HRC; D. Mitchell, J. Van Acker

Received and Acknowledged By:

Company: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____

**PRE-BID MEETING MINUTES
SOUTH BLOOMFIELD HIGHLANDS WATER MAIN
BLOOMFIELD TOWNSHIP**

Date: August 7, 2024

HRC Job No. 20220693

Time: 10:00 a.m.

Meeting Held: Bloomfield Township DPW Conference Room

<u>Attendee Name</u>	<u>Representing</u>	<u>Phone No.</u>	<u>Email Address</u>
Corey Almas	Bloomfield Township	248-594-2807	calmas@bloomfieldtwp.org
Paul Palace	Bloomfield Township	248-594-2809	ppalace@bloomfieldtwp.org
Steve Sierota	Bloomfield Township	248-594-2811	ssierota@bloomfieldtwp.org
Paul Horen	Bloomfield Township	248-433-7732	phoren@bloomfieldtwp.org
Mark Hendricks	Bloomfield Township	248-200-6814	mhendricks@bloomfieldtwp.org
Noah Mehalski	Bloomfield Township	248-433-7728	nmehalski@bloomfieldtwp.org
Adam Roose	Bloomfield Township	248-594-2802	aroose@bloomfieldtwp.org
Karyn Stickel	HRC	248-454-6566	kstickel@hrcengr.com
Chris Ross	HRC	248-330-7344	cross@hrcengr.com
Justin Van Acker	HRC	248-762-6430	jvanacker@hrcengr.com
Brandon Hosler	ISCO Pipe	502-640-9778	brandon.hosler@isco-pipe.com
Vinay Shenoy	Superior Excavating	313-247-4319	shenoyvinay@gmail.com
Alex Phillips	D'Angelo Brothers	248-894-2397	alex@dangelo-brothers.com
Bill Bell	Pamar Enterprises	810-343-1847	bill@pamarenterprises.com
Joe Strickland	Murphy Pipeline	734-460-3441	joe.strickland@murphypipeline.com

1) Introductions

2) Project Background and Scope

- The existing community well water system for the South Bloomfield Highlands (SBH) subdivision is failing and will be replaced with public water main. A Special Assessment District (S.A.D.) #601 was majority approved by the SBH residents.
- New public water main will include (5) connections to the existing Township water system and approx. 13,937 LF of directional drilled 8” HDPE DIPS DR11 water main, 669 LF of open cut 8” Cl. 54 D.I. water main, 20 fire hydrants, 32 gate valve & wells, and 6,263 L.F. of 1” type “K” copper or HDPE DR9 water service lines.
- Once all residents have been connected to the new water system the existing community water system and wells will be abandoned. Residents will be given 90 days from the activation of the new water system to connect themselves.

3) Review of Regulatory Requirements and Permits:

- EGLE Act 399 – Approved Permit # [ACT-333357](#). No cost to the contractor.
- RCOC – Approved Permit Application # [24-0824](#). Contractor to pull the RCOC permit, pay fees (total of \$6,000), provide insurance and \$30,000 construction bond to RCOC.
- OCWRC SESC – Permit not yet received. HRC to pull SESC permit and Township to pay for permit and inspection fees.

4) Review of potential utility conflicts:

- Consumers Energy – Gas main locations are shown on the plans and vary street by street. Gas main crossings with the proposed water main in multiple locations. Contractor to work closely with Consumers Energy loss prevention representative.
- Bloomfield Township Sanitary Sewer and Sanitary Leads – Sanitary sewer crossings with the proposed water main in multiple locations. Sanitary leads to be televised via lead launching and exposed at all crossings.
- SBH Community Water System – Existing water main crossings with the proposed water main in multiple locations. It is critical that the existing water main and water service lines are not damaged and remain active throughout construction as isolation of the existing water main requires full shutdown of the community well system.

5) Special Project Requirements:

- For information about Contractor qualifications, scheduling and special notes for bid items see spec section 01001 – Special Project Requirements and Supplemental Specifications.
- Additional information regarding the following is included in the supplemental specs: Incidentals, exposing utilities, water use, hours of operation, winter work/temporary pavement, restoration, maintenance of services, disposal of excavated materials, tree protection, Contractor’s liability and insurance, hydrant and gatewell connections, field adjustments, pipe materials, abandonment of the existing main etc.. It is critical the Contractor has read and understands this spec section prior to submitting their proposal.

6) Project Construction/Materials:

- A mechanical joint adaptor with a concrete collar and flex restraint must be utilized in locations where the new HDPE main is to be connected to an existing ductile or cast iron water main to ensure the connection to the existing main does not separate.
- All ductile iron pipe shall have restrained joints and poly-wrap (8 mil).
- Directional drilling bore path alignment to be confirmed from the data logger with final bore path alignment documented by the Contractor.
- Existing water main to be abandoned with flowable fill only after all residents have switched services over to the new main.
- Temporary construction signage to be ground mounted per RCOC.
- All excavations are to be backfilled with Class II compacted sand backfill.
- The Contractor may salvage and re-use the gravel in the roadways so long as it can be kept clean.

7) Review of Contract Documents:

- Physical bids to be submitted to the Township as described in the Proposal and Instructions to Bidders.
- A Performance Bond, Labor and Material Bond, and Maintenance and Guarantee Bond will all be required as part of the signed Contract.
- No proposals will be received unless made on blanks furnished and delivered to the Bloomfield Township Dave Payne Public Services Building on or before 10:00am local time on August 20, 2024.
- A Bid Bond will be required to be submitted along with the Contractor’s Proposal.

8) Critical Work Sequencing:

- Construction to begin after October 1, 2024. Substantial completion to be achieved by October 31, 2025. Final completion of the project is due by April 30, 2026.

- The Contractor may elect to start work on Division 1 & 2 only as soon as the Notice to Proceed is issued. However, once work is started in a location, it shall be continued without delay or stoppages until the work is substantially complete. A separate Notice to Proceed will be issued for the Division 3 work only which will begin once all residents have connected themselves to the new water system within 90 days of the division 1 work being completed.

9) Use of premises by Owner and Contractor:

- The Contractor may use the ROW of Mulberry Road for staging and fusing of the water main. Additionally, the SBH wellhouse property at 2183 Somerset will be available for temporary staging and storage for the Contractor.
- Vehicular access to each home will be maintained during construction. Emergency vehicle access, mail delivery and garbage pick-up must also be maintained during construction.
- The General Contractor's foreman or superintendent must be on site at all times during active construction.
- Allowable work hours in Bloomfield Township are Monday through Saturday, 7 AM to 6 PM, and not on Sundays or holidays. The Contractor may work outside these hours only with permission from Bloomfield Township. Contractor to notify Township Engineering & Environmental Services Department the Wednesday prior to any requested Sunday work and cannot complete Sunday work without permission from the Township Supervisor.

10) Project Coordination:

- Contractor may need to coordinate work with MDOT and Dan's Excavating should the Square Lake Road reconstruction project still be occurring when project begins.

11) Survey and layout by HRC:

- HRC to provide construction staking for directional drilled sections of water main, gate wells and hydrant finished grades. Staking of the right-of-way to be provided when requested by the Contractor.
- All work shall be performed under the observation of a full time field observer provided by the Township of Bloomfield. HRC will provide construction observation services on the Township's behalf. 48-hour minimum notice must be provided to HRC for observation scheduling. If an inspector is scheduled to come out and no work takes place then a ½ crew day will be charged for the show up time.

12) Procedures for testing:

- Bacteriological and pressure tests to be performed after the pipes have been installed by directional drilling or open-cut.
 - Two-day bacti tests must be provided for the water main.
- Water main pressure test (150 psi – 4 hr test) required. To be witnessed by HRC. Both safe bacti and pressure tests are required prior to physical connections.
- HRC will perform compaction testing for backfill & HMA, and concrete testing. HRC's observer will assist with coordination for testing. MDOT Class II sand required for all backfill. Gravel road restoration to consist of 8 inches of 23A compacted in place.

13) Procedures for maintaining record documents:

- HRC to complete as-built plans from HRC observation reports and the Contractor's bore path data logger.

14) Traffic Control:

- Bids shall include the expected cost of all traffic control, signage, and barricading required for the project in the lump sum pay item for “Maintaining Traffic”
- Traffic control will be primarily around the daily work zone on local, residential streets.

15) Other discussions (housekeeping):

- Contractors must take care of dust control throughout project duration. All mud tracked onto area roadways must immediately be removed with roads swept clean on as-needed basis.

These minutes are intended to be a summary of those items discussed. Any corrections and/or comments should be noted to the writer as soon as possible.

Respectfully submitted,

HUBBELL, ROTH & CLARK, INC.



Christopher N. Ross, P.E.
Project Engineer

CR/JV

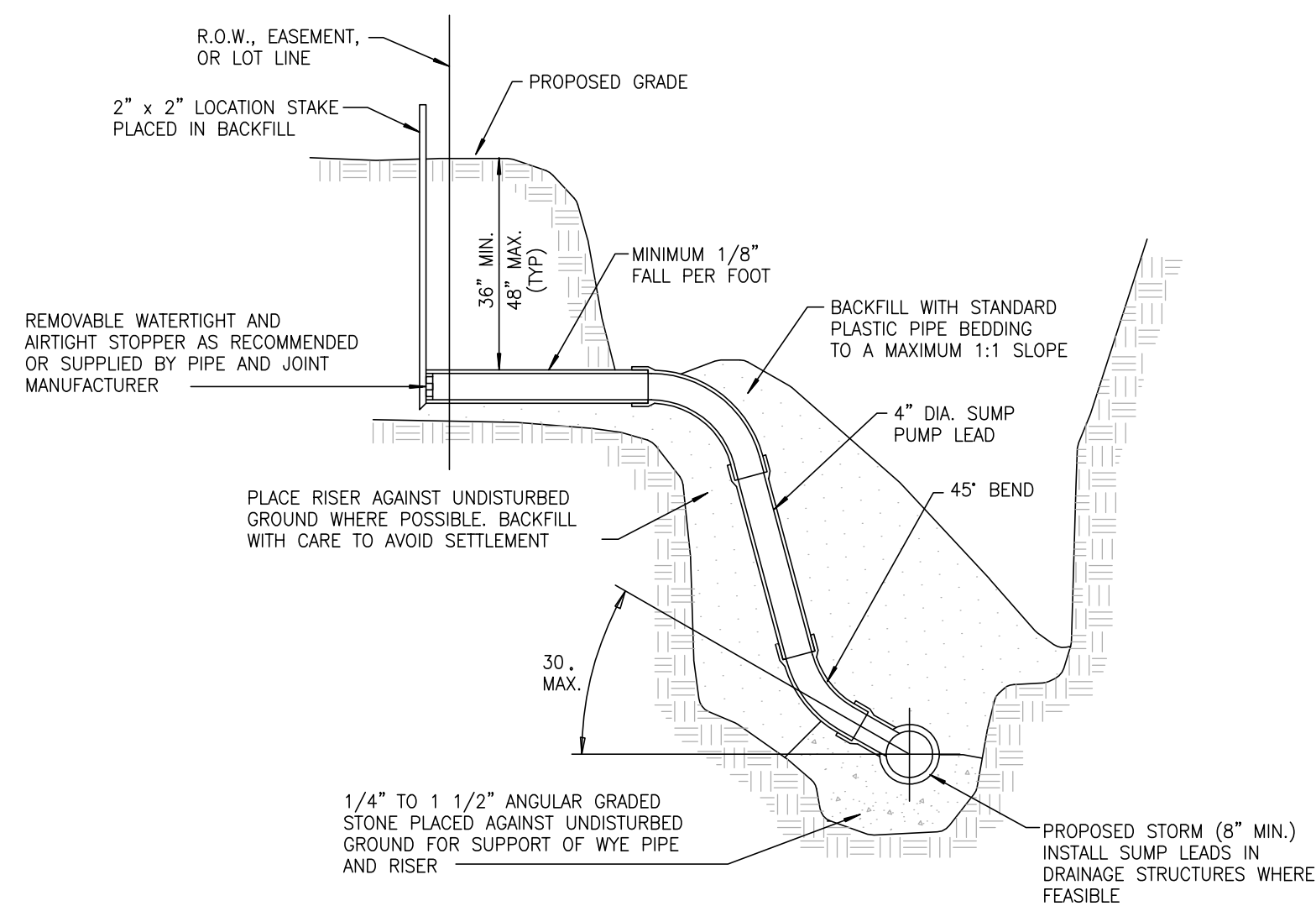
pc: All present
Bloomfield Township; A. Hysinger
HRC; D. Mitchell, File

Pre-Bid Meeting – Sign-In Sheet
 South Bloomfield Highlands Water Main
 Bloomfield Township DPW Conference Room
 Date: August 7, 2024
 Time: 10:00am

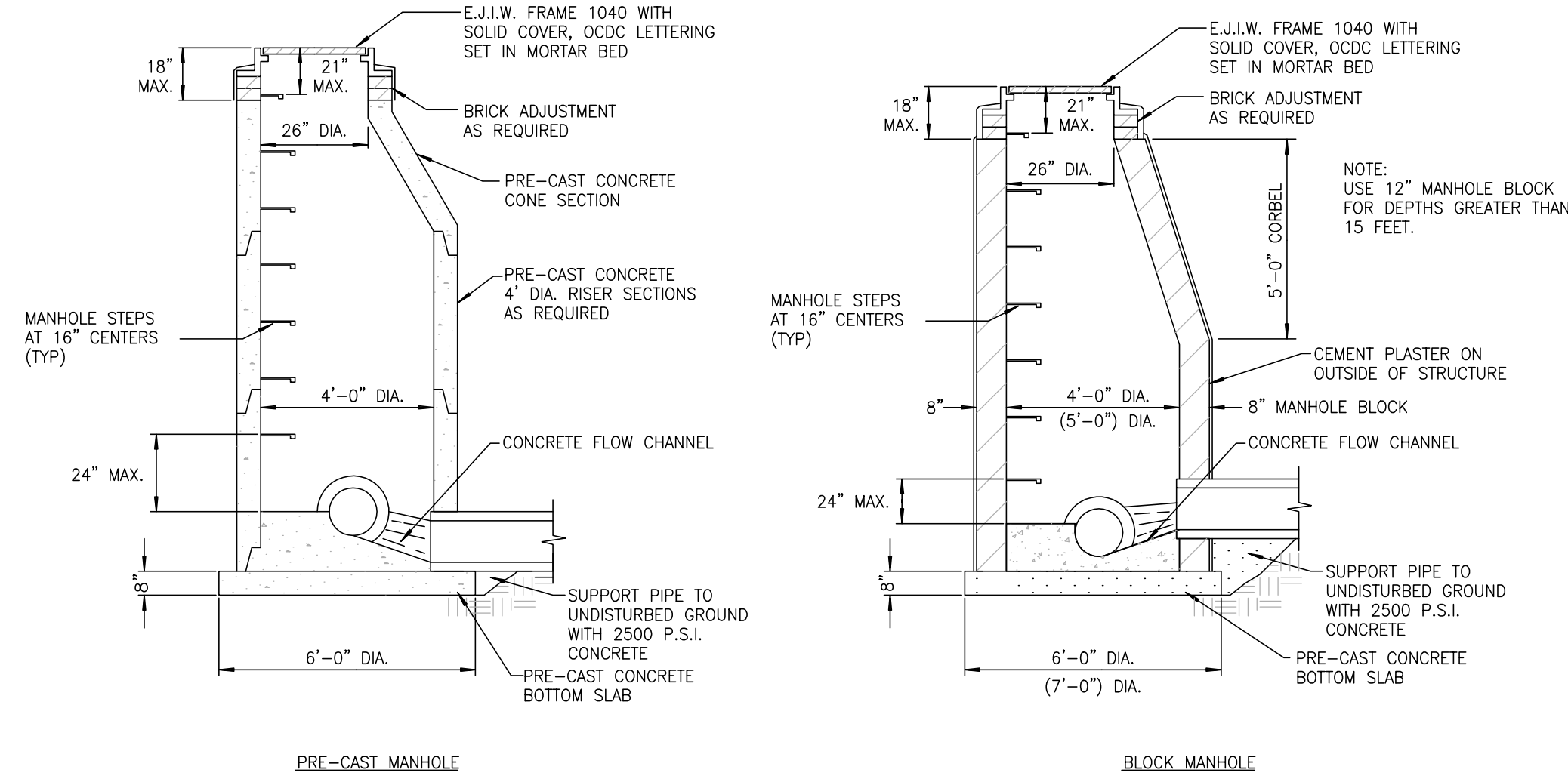


Name	Affiliation	Phone Number	Email Address
Chris Ross	HRC	248-330-7344	Cross @ hrcengr.com
Paul Palace	Bloom Field	248.594.2809	PPalace @ Bloomfieldtwp.org
Corey Almas	BT	248.594.2807	CALMAS @ Bloomfieldtwp.org
Noah Mchalski	BTwp	248-433-7728	Nmchalski @ bloomfieldtwp.org
Brandon Hosler	ISCO	(502)-640-9778	Brandon.Hosler @ ISCO-pipe.com
VINAY SHENOY	SUPERIOR EXCAVATING, INC.	313-247-4319	shenoyvinay @ gmail.com
Alex Phillips	D'Angelo Brothers	248-894-2397	Alex @ Dangelo-Brothers.com
Bill Bell	Pamco Enterprises	810-343-1847	bill @ pamcoenterprises.com
JOE STRICKLAND	MPC	732-460-3441	JOE STRICKLAND @ MURPHY PIPE LINE.COM
Paul Hofen	BTWP	947-414-0071	Phofen @ Bloomfieldtwp.org
Steve Sierota	BTWP	248 594 2811	S Sierota @ Bloomfieldtwp.org
Mark Hendricks	BTWP	248-200-6814	M Hendricks @ Bloomfieldtwp.org
Karyn Stickel	HRC	248-459-3843	kstickel @ hrc-engr.com
Adam Roose	Bloomfield	248-594-2802	Aroose @ Bloomfieldtwp.org

Justin VanAcker HRC 248-762-6430 jvanacker@hrc-engr.com

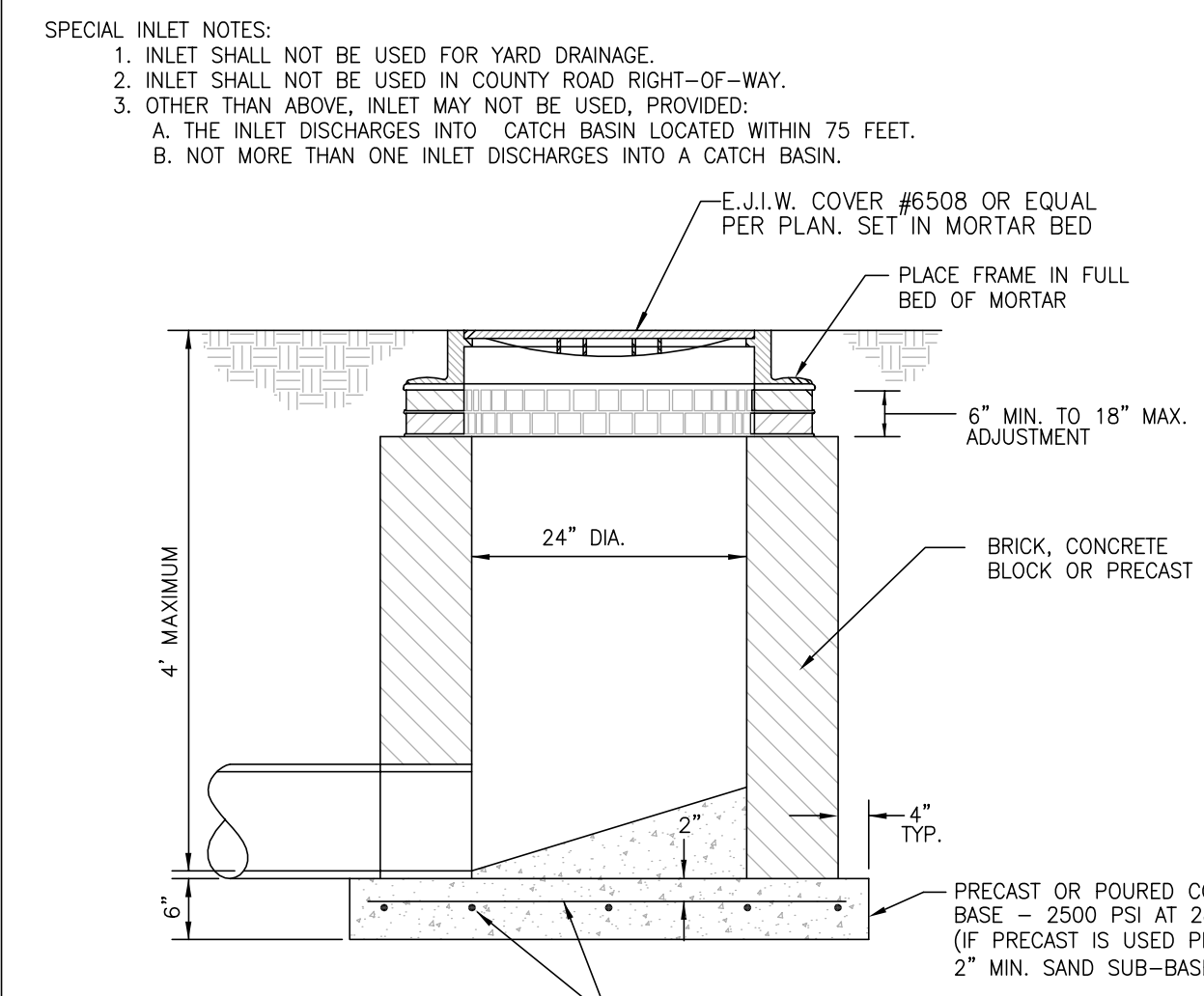


HOUSE LEAD DETAIL FOR 4" DIA. PLASTIC SUMP PUMP LEADS



STANDARD MANHOLE DETAILS

NOTE:
ALL MANHOLE, CATCH BASINS OR INLET STRUCTURE STEPS SHALL BE M.A. INDUSTRIES INC. NUMBERS PS1-B OR PS-2-PFS OR APPROVED EQUAL.



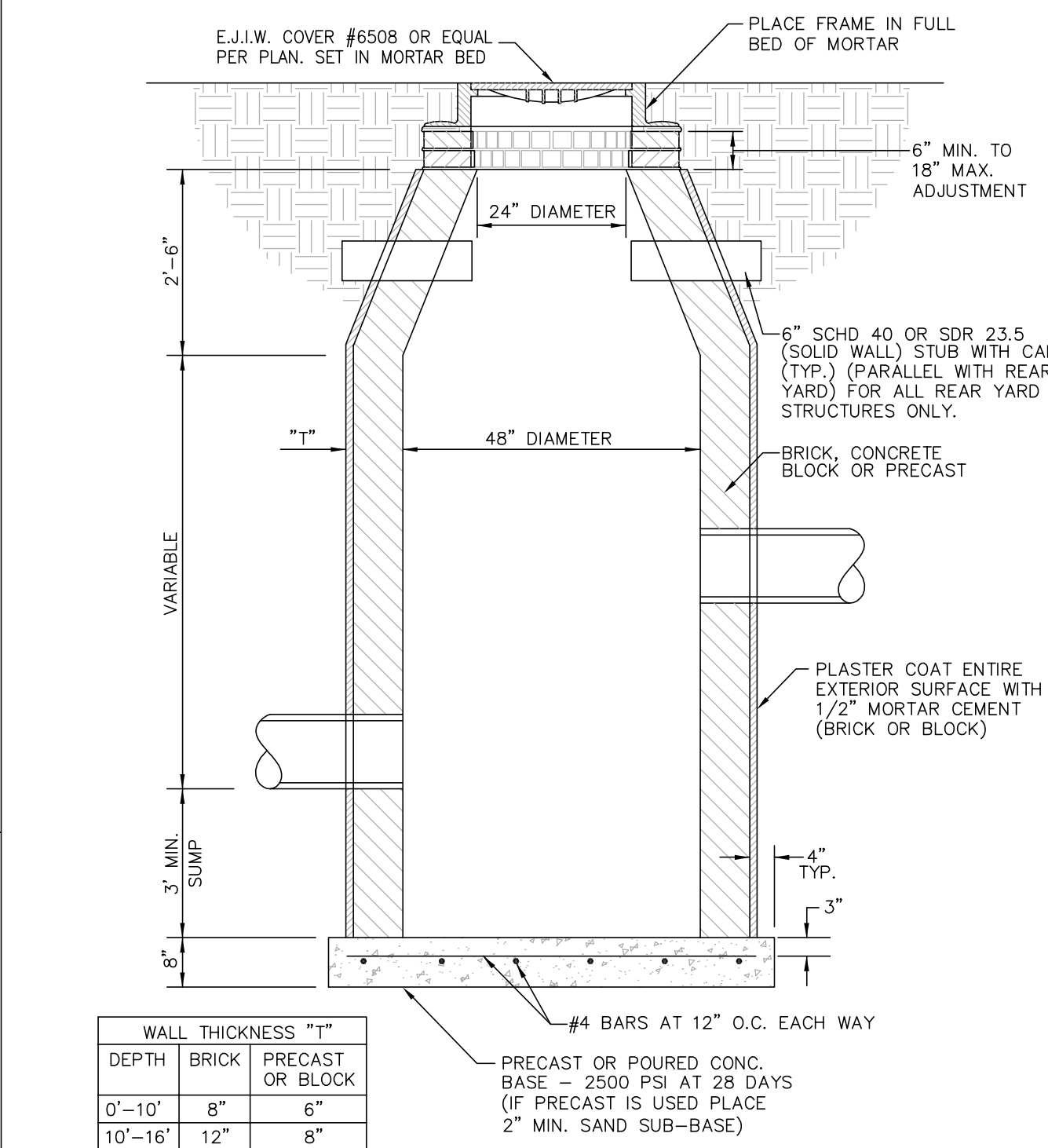
INLET DETAIL

SPECIAL INLET NOTES:
1. INLET SHALL NOT BE USED FOR YARD DRAINAGE.
2. INLET SHALL NOT BE USED IN COUNTY ROAD RIGHT-OF-WAY.
3. OTHER THAN ABOVE, INLET MAY NOT BE USED, PROVIDED:
A. THE INLET DISCHARGES INTO CATCH BASIN LOCATED WITHIN 75 FEET.
B. NOT MORE THAN ONE INLET DISCHARGES INTO A CATCH BASIN.

GENERAL NOTES

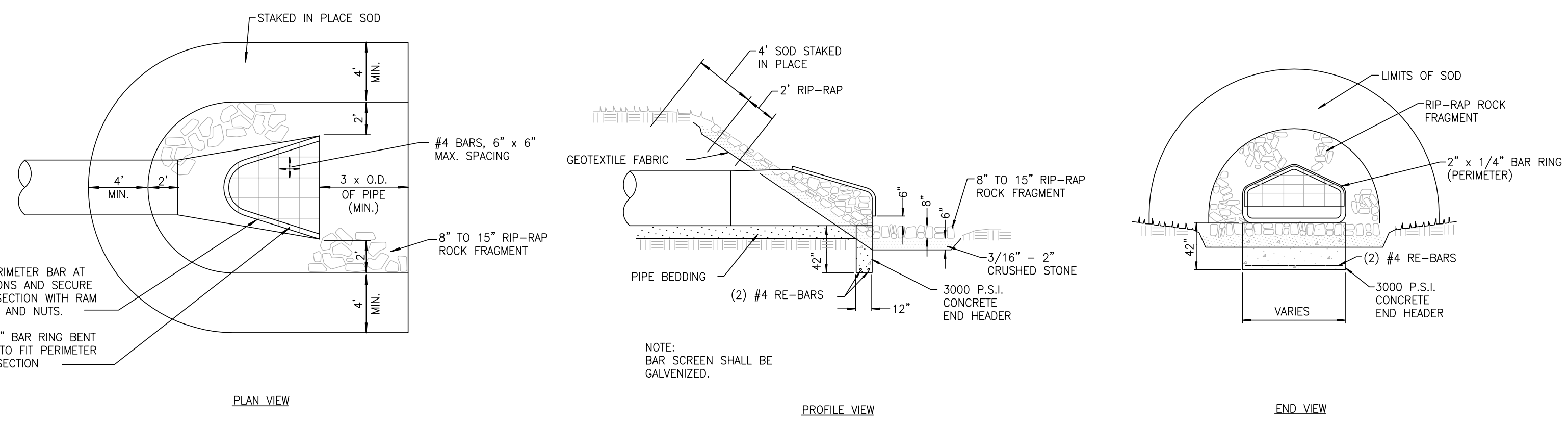
- TYPE AND CLASS OF PIPE SHALL BE AS SPECIFIED ON PLANS.
- CLASS "B" BEDDING SHALL BE USED THROUGHOUT, UNLESS OTHERWISE SPECIFIED ON THE PLAN.
- ALL END SECTIONS 18" AND LARGER SHALL BE PROVIDED WITH A GALVANIZED BAR SCREEN.
- CORRUGATED STEEL PIPE REQUIREMENTS:
 - CORRUGATED STEEL PIPE SHALL BE PROVIDED CORRESPONDING TO THE DIAMETER OR ARCH SHAPE (RISE AND SPAN) AS SPECIFIED ON THE PLANS.
 - GAUGE THICKNESS SHALL BE AS SPECIFIED ON THE PLANS.
 - A PAVED INVERT SHALL BE PROVIDED IF SPECIFIED ON THE PLANS.
 - ALL CORRUGATED STEEL PIPE SHALL BE GALVANIZED AND COATED WITH BITUMINOUS ASPHALT TO RETARD CORROSION. AS AN ALTERNATE TO THIS REQUIREMENT, AN ALUMINIZED STEEL PIPE, OR APPROVED EQUAL, MAY BE SUBSTITUTED.
 - ALL CORRUGATED STEEL PIPE SHALL BE JOINED TOGETHER WITH A WATER TIGHT CIRCUMFERENTIALLY CORRUGATED STEEL COUPLING BAND FURNISHED WITH TWO (2) RUBBER GASKETS.
 - CORRUGATED STEEL PIPE SHALL HAVE WELDED SEAMS WITH HELICAL CORRUGATIONS. EACH END OF THE HELICAL CORRUGATED PIPE SHALL BE RE-ROLLED TO AN ANNULAR CONFIGURATION TO ACCOMMODATE DATE. THE WATER TIGHT COUPLING BAND DESCRIBED HEREIN. RIVETED OR LOCK SEAM PIPE IS UNACCEPTABLE.
 - PIPE CONNECTIONS TO THE SIDE WALL OF MAIN-LINE CORRUGATED STEEL PIPE SHALL BE OF THE DIAMETER SPECIFIED ON THE PLANS AND SHALL CONSIST OF SIMILAR STEEL PIPE THAT CONNECTS OR TAPS INTO THE MAIN-LINE PIPE WALL USING A PRE-FABRICATED STEEL SADDLE PLATE.
- CONCRETE PIPE REQUIREMENTS:
 - THE CONTRACTOR SHALL PROVIDE REINFORCED CONCRETE PIPE AS SPECIFIED ON THE PLANS.
 - ALL REINFORCED CONCRETE PIPE SHALL HAVE MODIFIED GROOVED TONGUE JOINTS WITH O-RING TYPE RUBBER GASKET, PER A.S.T.M. SPECIFICATIONS C443.
 - THE INSIDE JOINTS OF PIPE SIZES OVER 27" DIAMETER SHALL BE POINTED UP WITH MORTAR UPON COMPLETION OF BACKFILLING OPERATIONS.
- SUMP PUMP LEAD REQUIREMENTS:
 - ALL SUMP PUMP LEADS CONNECTED TO A COUNTY DRAIN SHALL BE PRE-MANUFACTURED.
 - SUMP PUMP MAINS AND LEADS SHALL BE A SDR 35, NON-PERFORATED, SOLID WALL, PVC TRUSS PIPE, OR APPROVED EQUAL, WITH PREMIUM JOINTS.
 - ENDS OF ALL 4" SUMP PUMP LEADS SHALL BE TEMPORARILY CAPPED AND THEIR LOCATION STAKED, WITNESSED AND RECORDED.
 - ALL SUMP PUMP LEADS TO BE TAKEN TO THE PROPERTY LINE, EASEMENT LINE OR AS INDICATED ON THE PLAN.
 - SUMP PUMP CLEANOUTS SHALL BE A MINIMUM INSIDE DIAMETER OF 24" AND BE CONSTRUCTED AT CHANGES OF ALIGNMENT, ENDS OF SUMP PUMP MAINS OR AS INDICATED ON THE PLAN.
- 12" INLET AND OUTLET SEWER TO HAVE A GRADE OF NOT LESS THAN 0.2% UNLESS OTHERWISE NOTED.
- PRE-CAST CONCRETE BASE MAY BE USED MUST BE SET LEVEL ON A SAND CUSHION OF NOT LESS THAN 2" NOR THAN 4".

- SPECIAL CATCH BASIN NOTES:
- DIAMETER OF "YARD" CATCH BASIN MAY BE REDUCED TO 36" PROVIDED THERE IS ONLY ONE (1) PIPE IN THE STRUCTURE AND THE DISTANCE TO THE OUTLET MANHOLE IS LESS THAN 150 FEET.
 - CATCH BASIN MUST DISCHARGE INTO MANHOLES AND NOT INTO OTHER CATCH BASINS, EXCEPT:
 - WHERE CATCH BASIN IS A "YARD" TYPE WITH NOT MORE THAN THREE (3) CATCH BASINS DISCHARGING INTO IT.
 - WHERE CATCH BASIN IS A "PAVEMENT TYPE" DISCHARGING INTO ANOTHER CATCH BASIN LOCATED WITHIN 75 FEET.
 - STEPS SHALL BE PLACED IN ALL 48" DIAMETER STRUCTURES MORE THAN 4' DEEP.
 - ALL BACKFILL AROUND THE STRUCTURE SHALL BE 1/4" TO 1/2" ANGULAR STONE UP TO THE SPRINGLINE OF THE HIGHEST PIPE. THE REMAINING BACKFILL (TO GRADE) SHALL BE SAND COMPACTED IN 12" LIFTS.

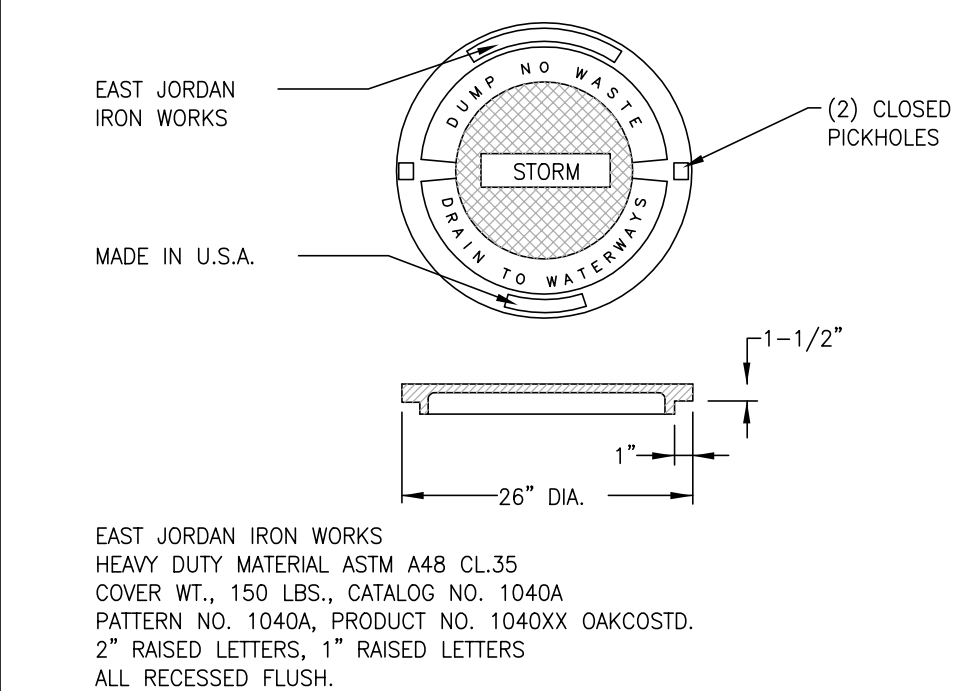


CATCH BASIN DETAIL

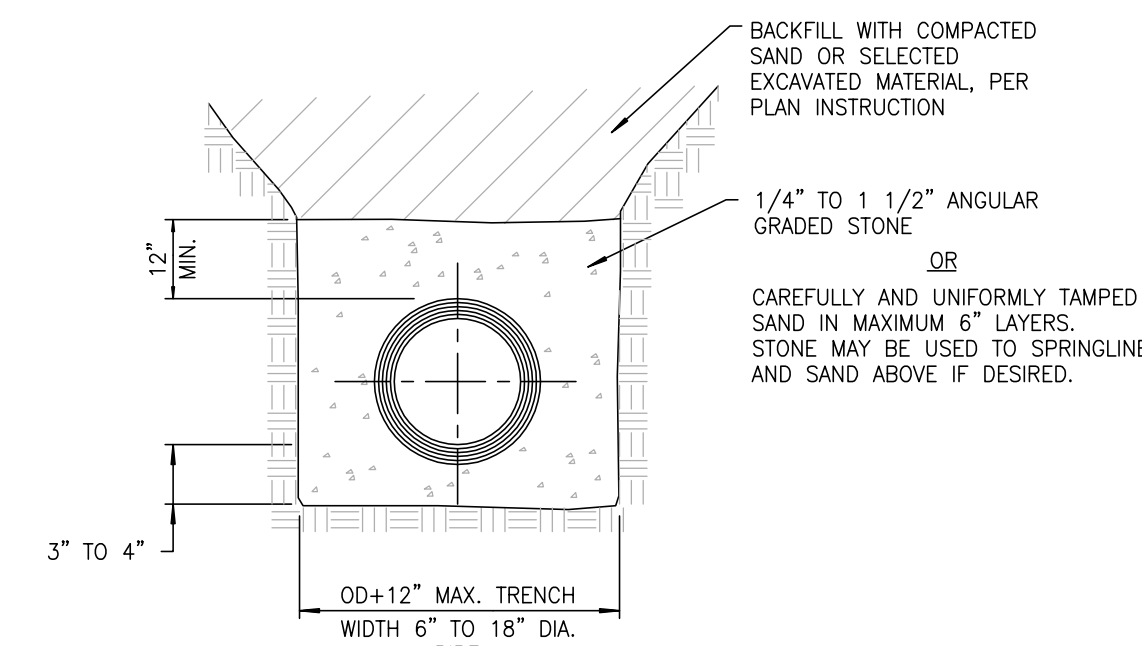
DEPTH	WALL THICKNESS "T"	
	BRICK	PRECAST OR BLOCK
0'-10"	8"	6"
10'-16"	12"	8"



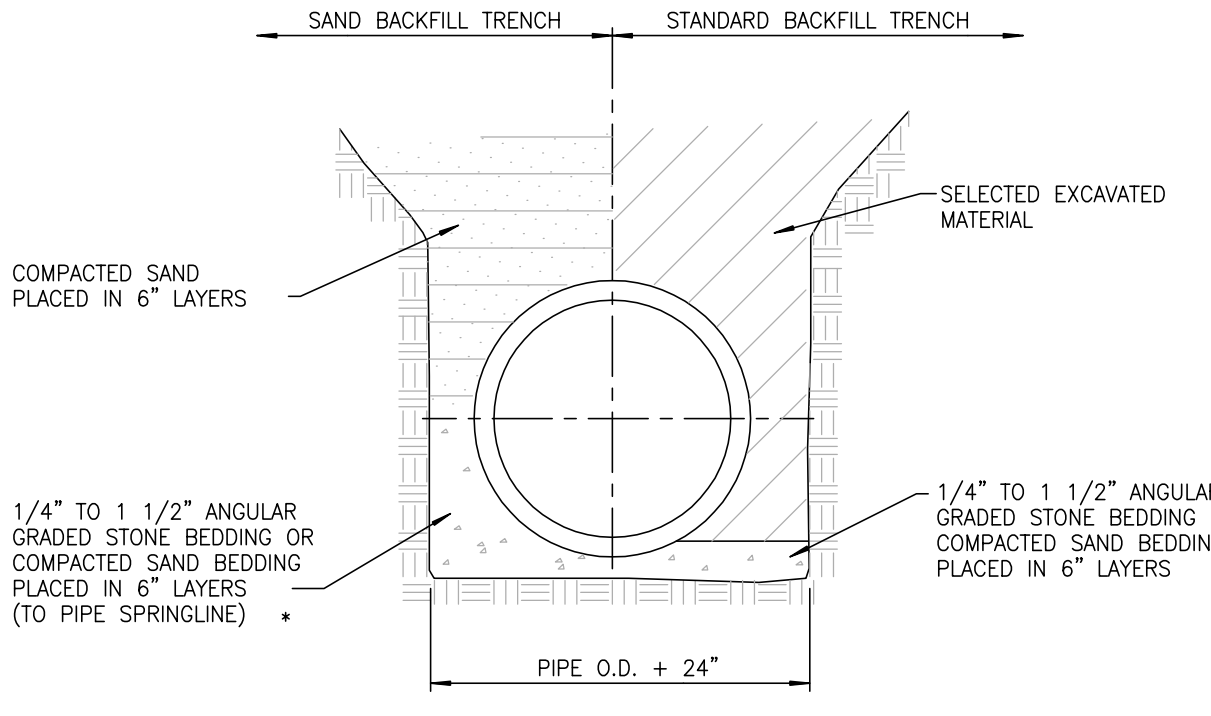
END SECTION AND BAR SCREEN DETAIL



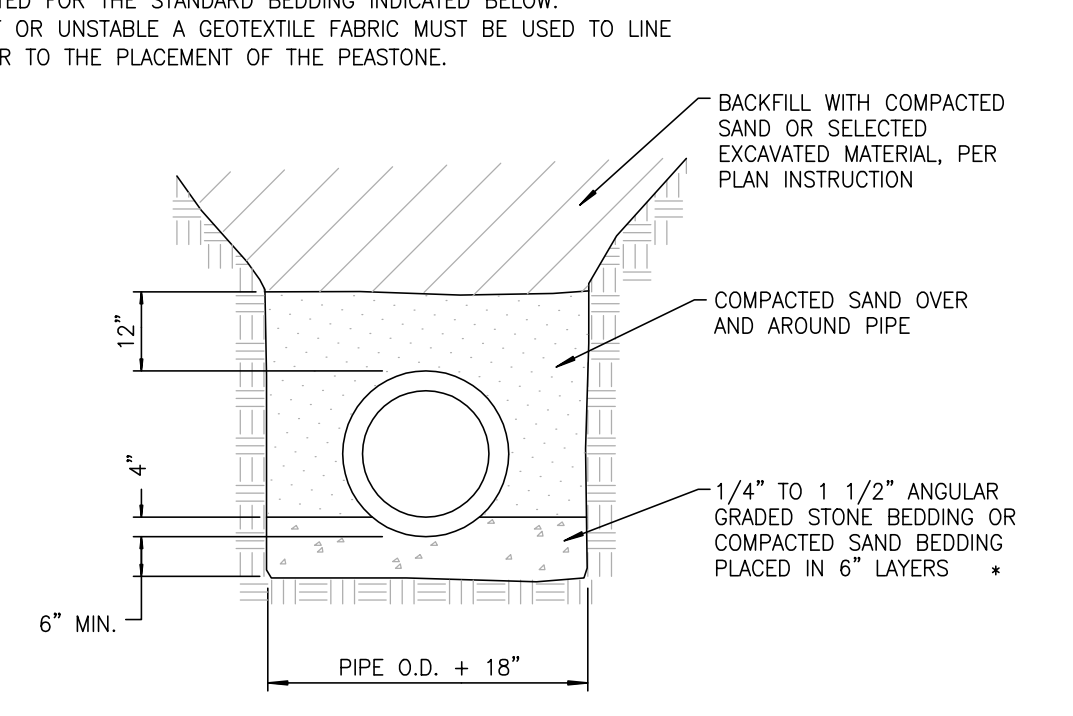
LETTERED MANHOLE COVER



P.V.C., SOLID WALL, AND TRUSS PIPE BEDDING DETAIL

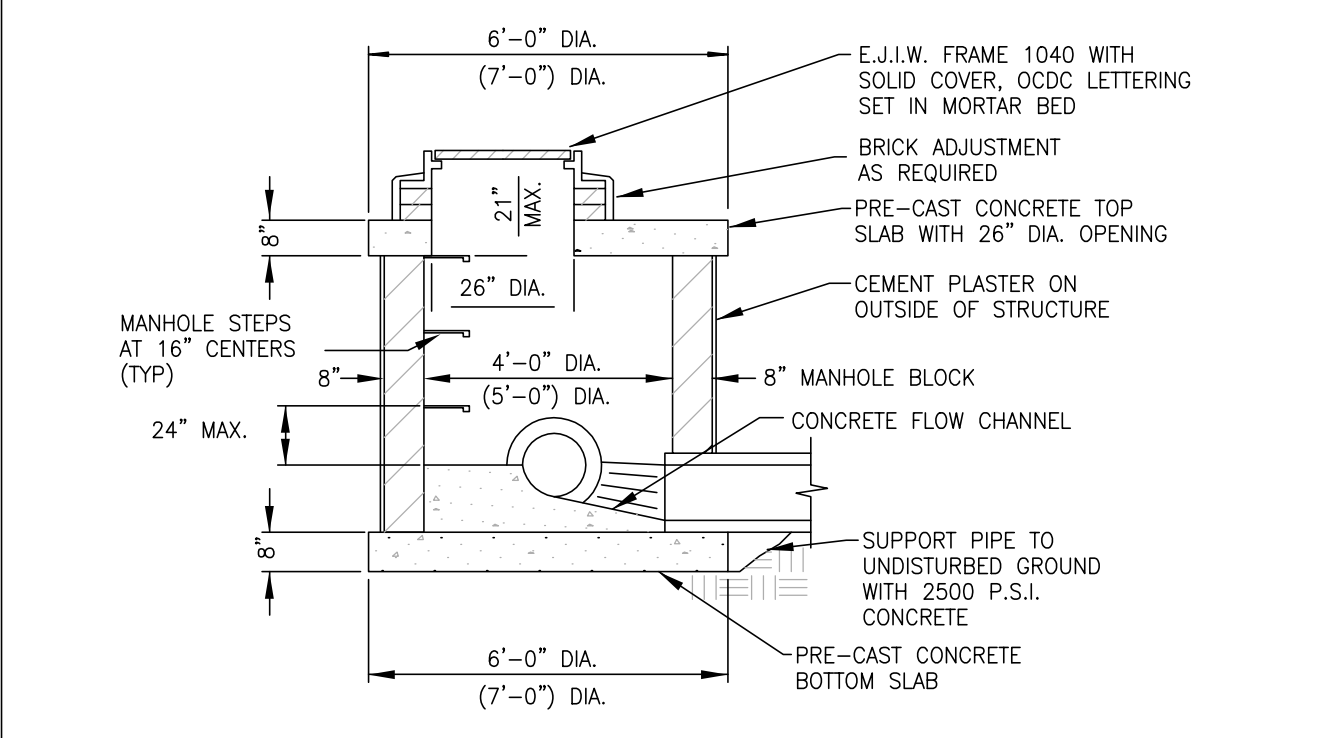


CLASS "B" BEDDING TRENCH DETAIL FOR 27" DIAMETER AND LARGER PIPE



CLASS "B" BEDDING TRENCH DETAIL FOR 24" DIAMETER AND SMALLER PIPE

NOTE:
IN DRY, STABLE SOILS, PEASTONE (EQUIVALENT TO M.D.O.T. 34R SPECIFICATIONS) MAY BE SUBSTITUTED FOR THE STANDARD BEDDING INDICATED BELOW. IF TRENCH IS WET OR UNSTABLE A GEOTEXTILE FABRIC MUST BE USED TO LINE THE TRENCH PRIOR TO THE PLACEMENT OF THE PEASTONE.

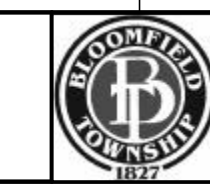


LOW HEAD MANHOLE DETAIL



NO.	BY	DATE	REVISION DESCRIPTION
01		02-16-2005	UPDATED DETAIL SHEET
02		08-09-2005	UPDATED PER BTEES
03		11-22-2005	UPDATED PER BTEES

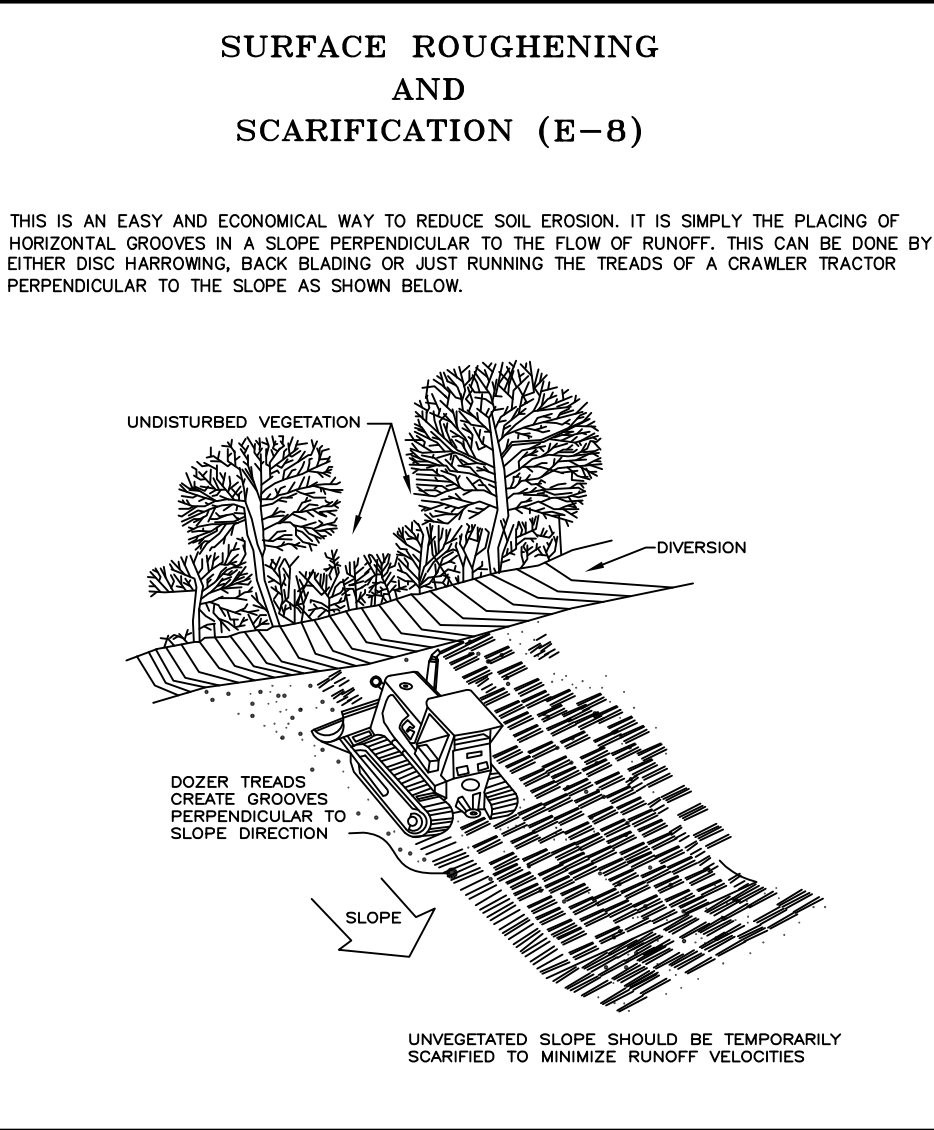
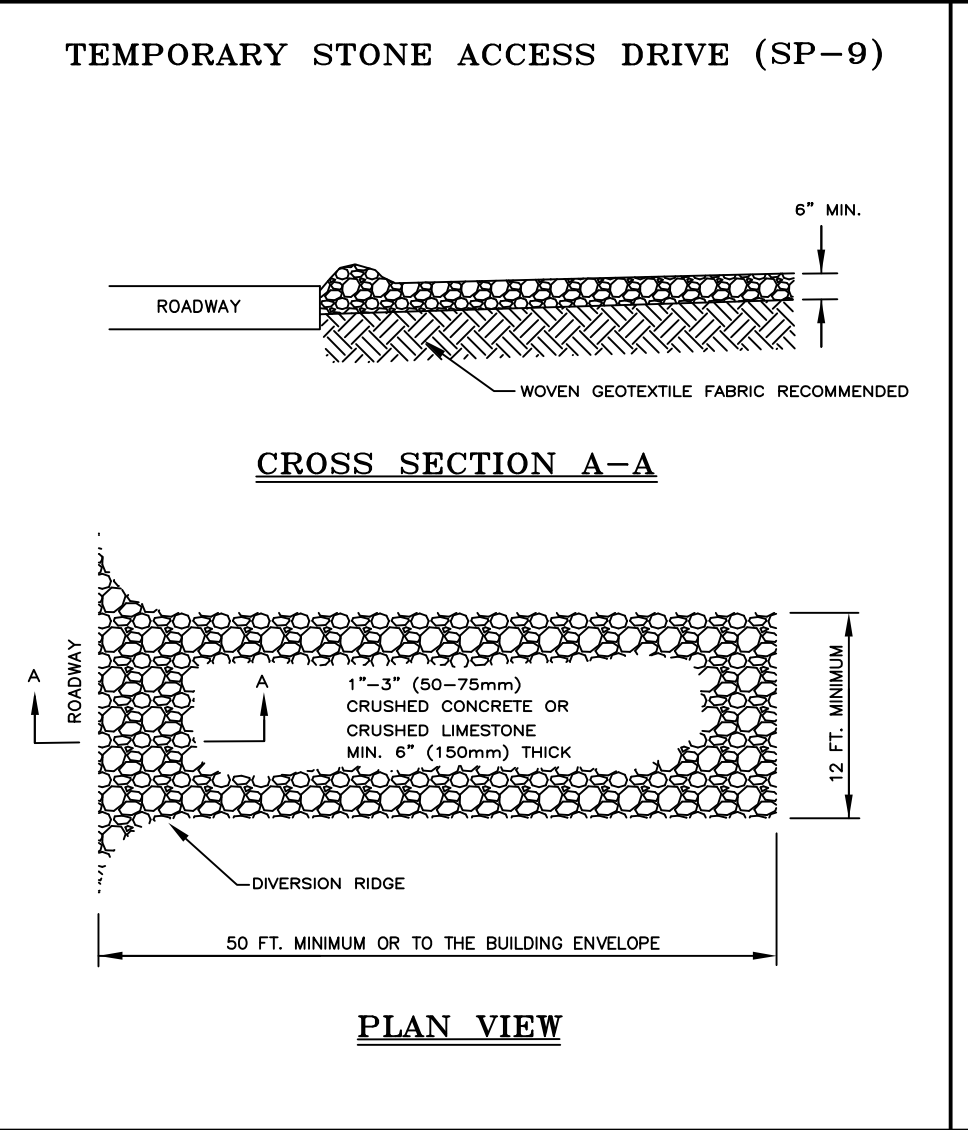
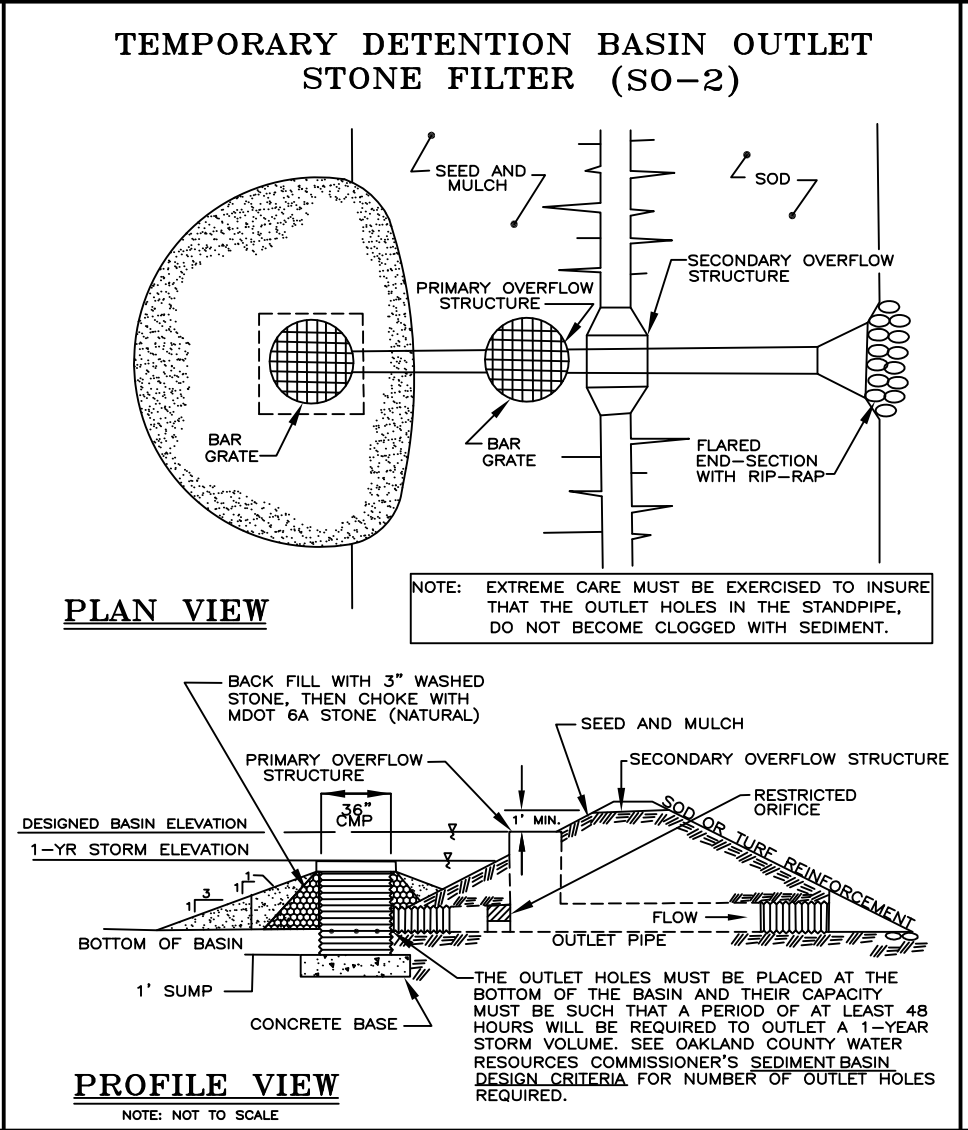
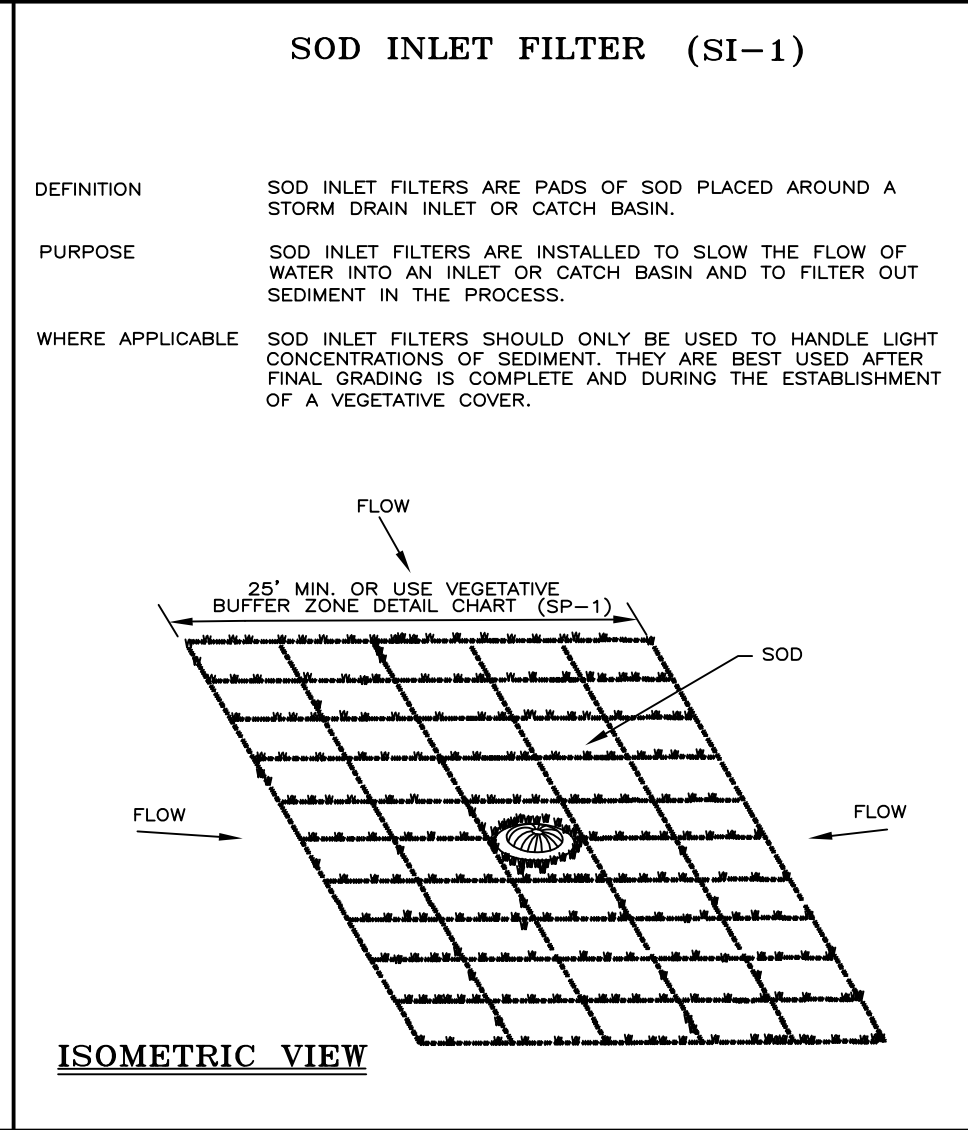
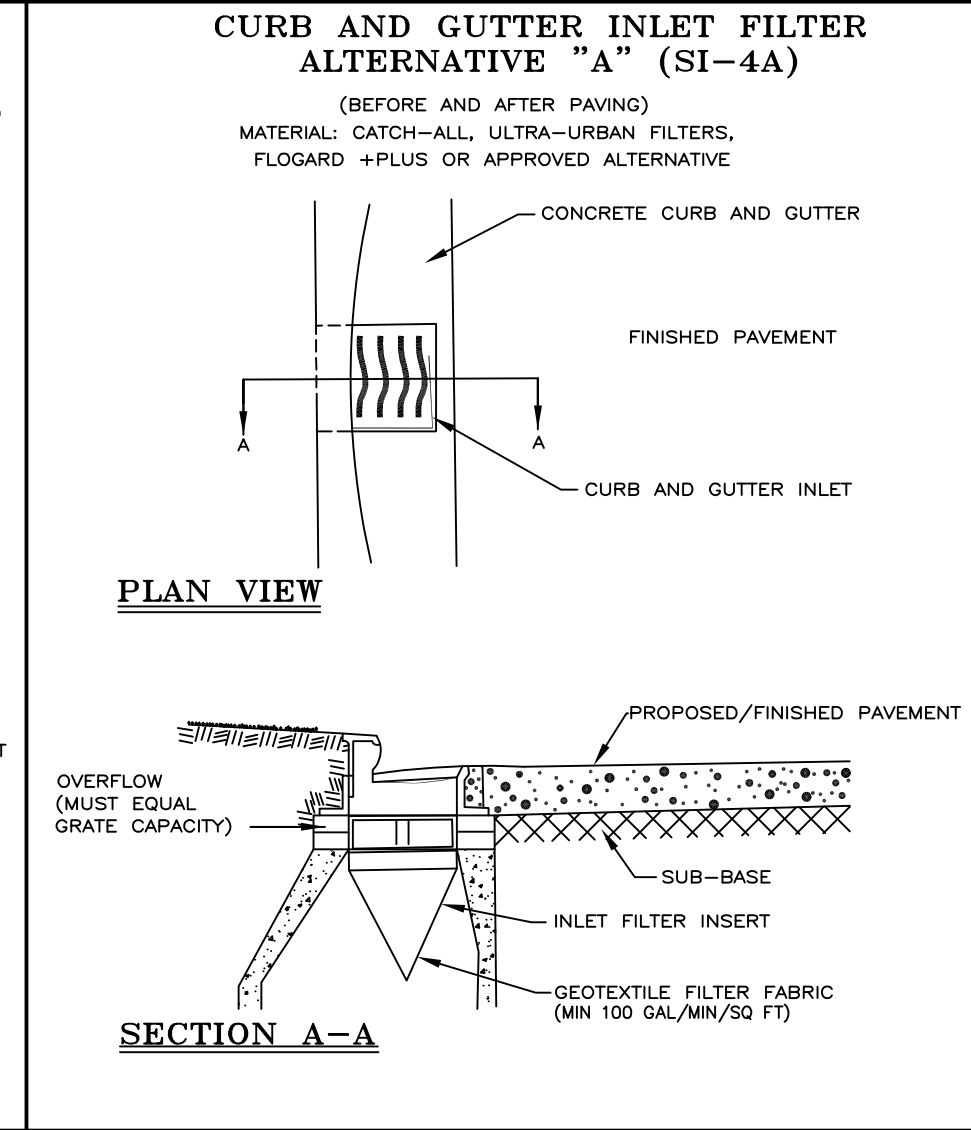
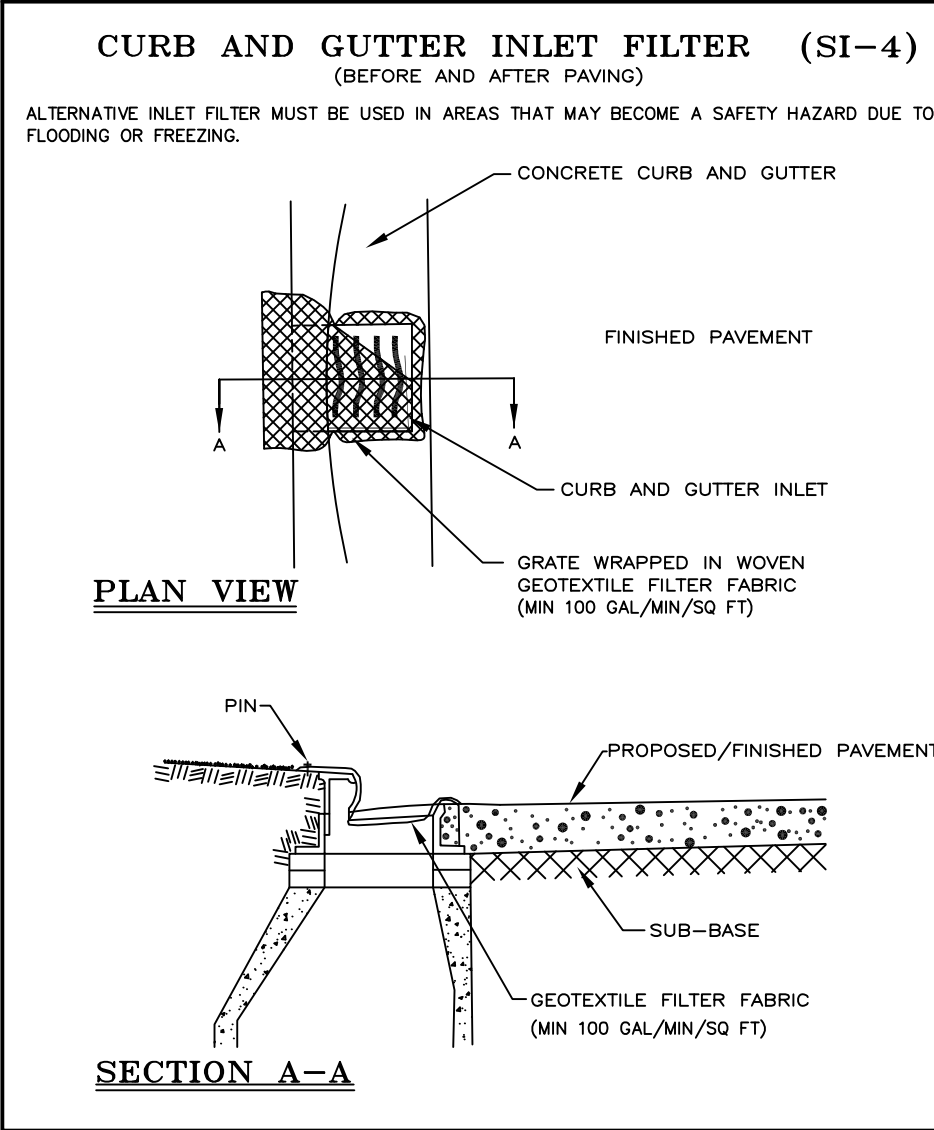
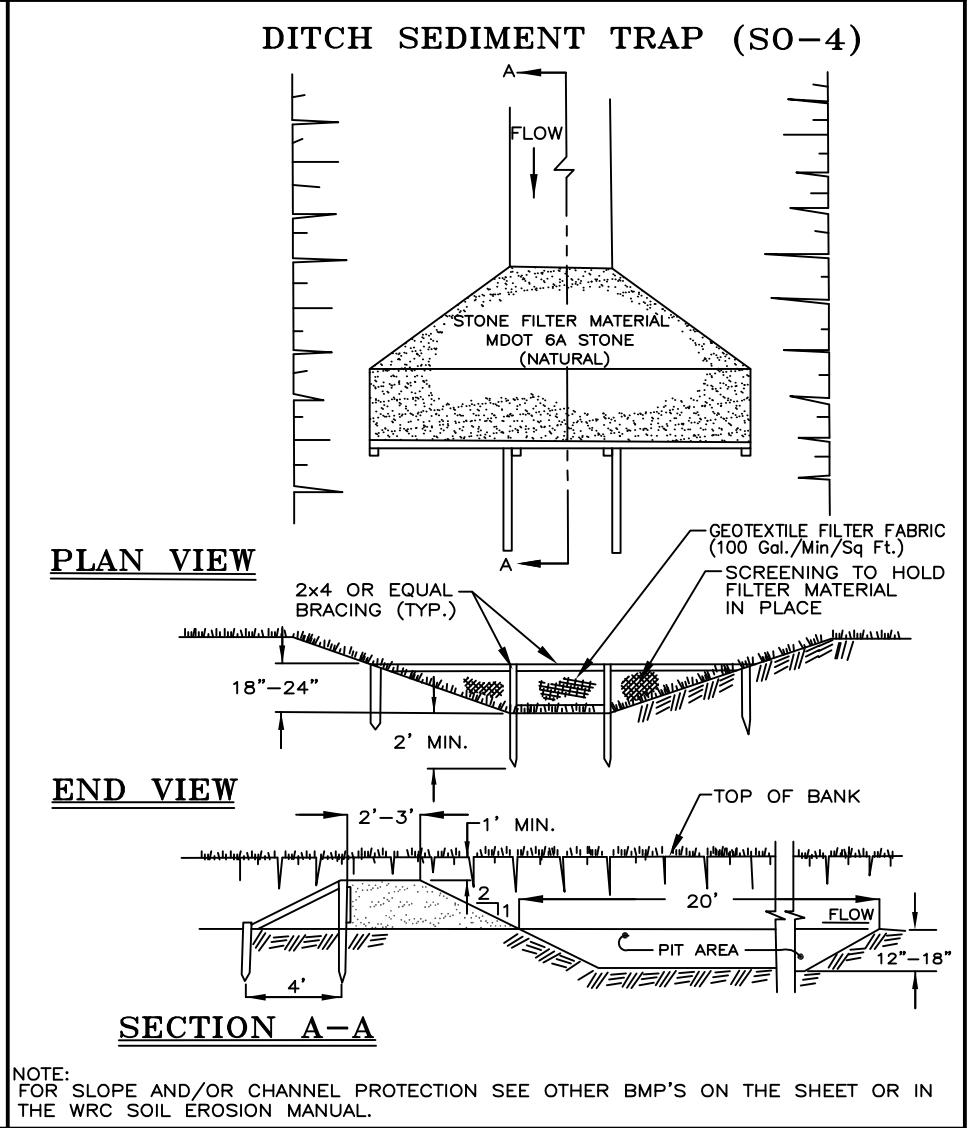
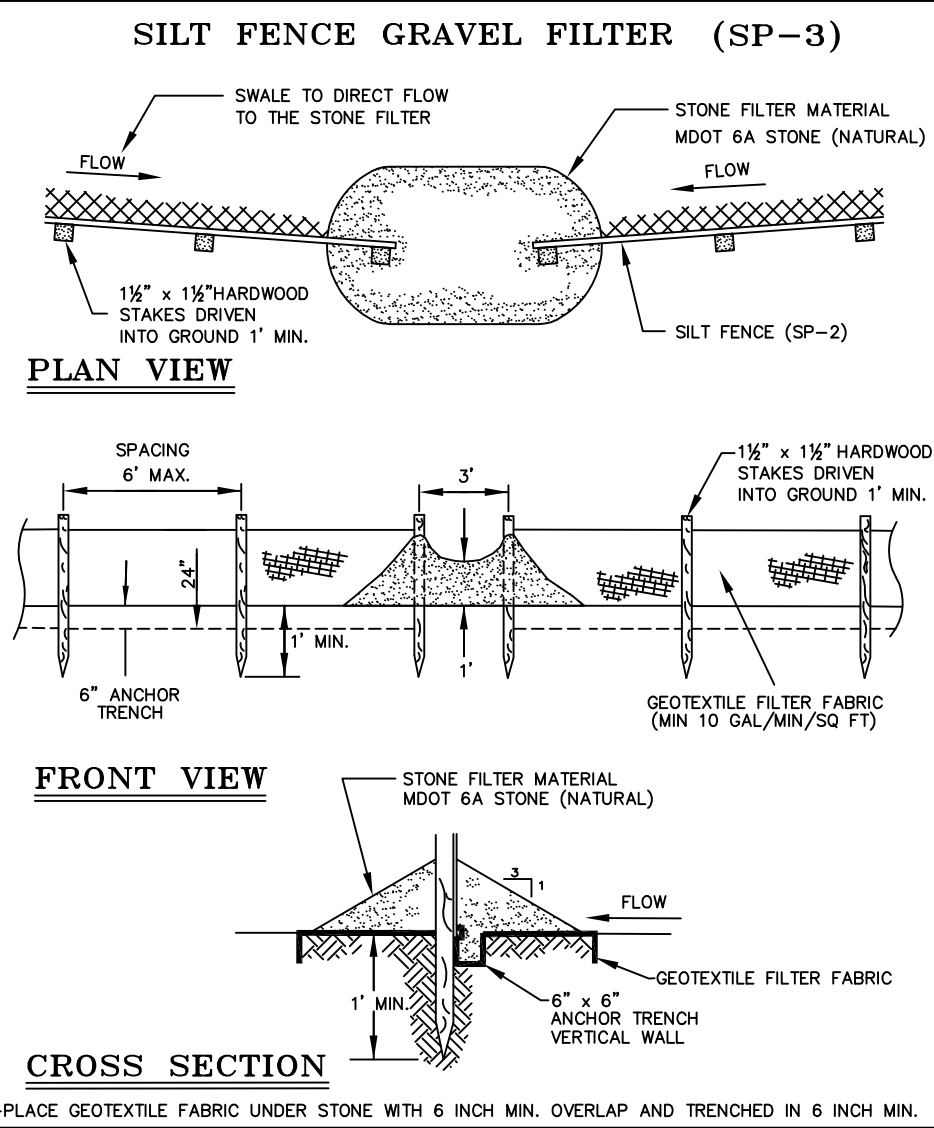
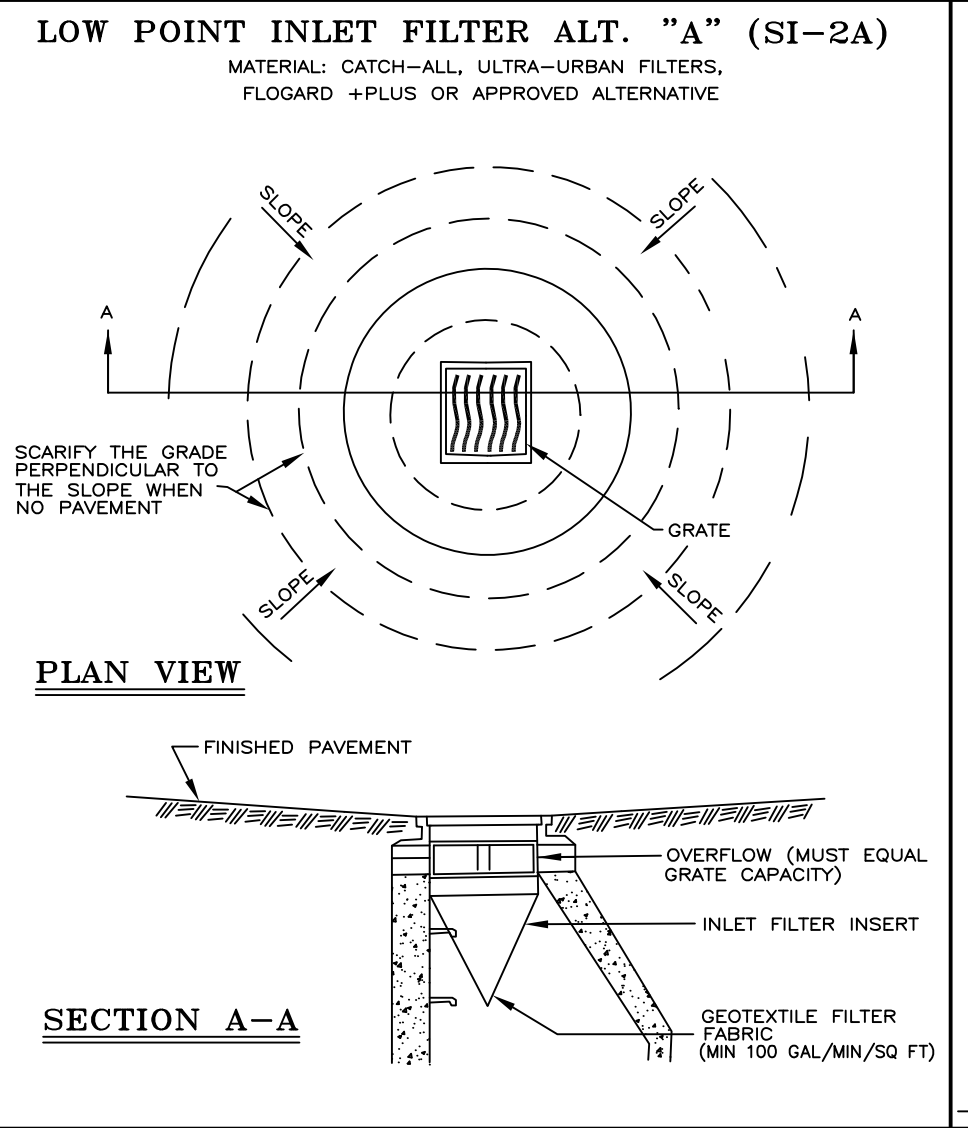
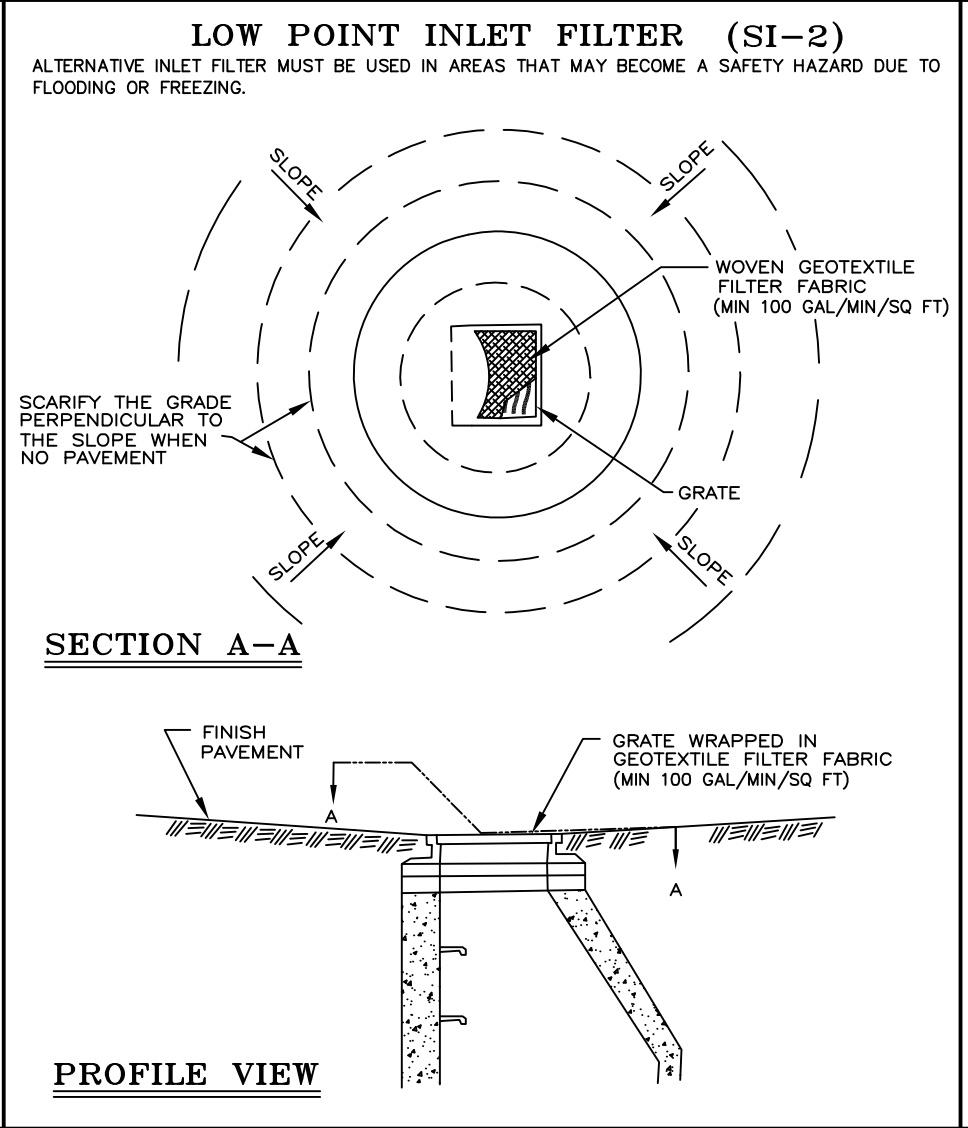
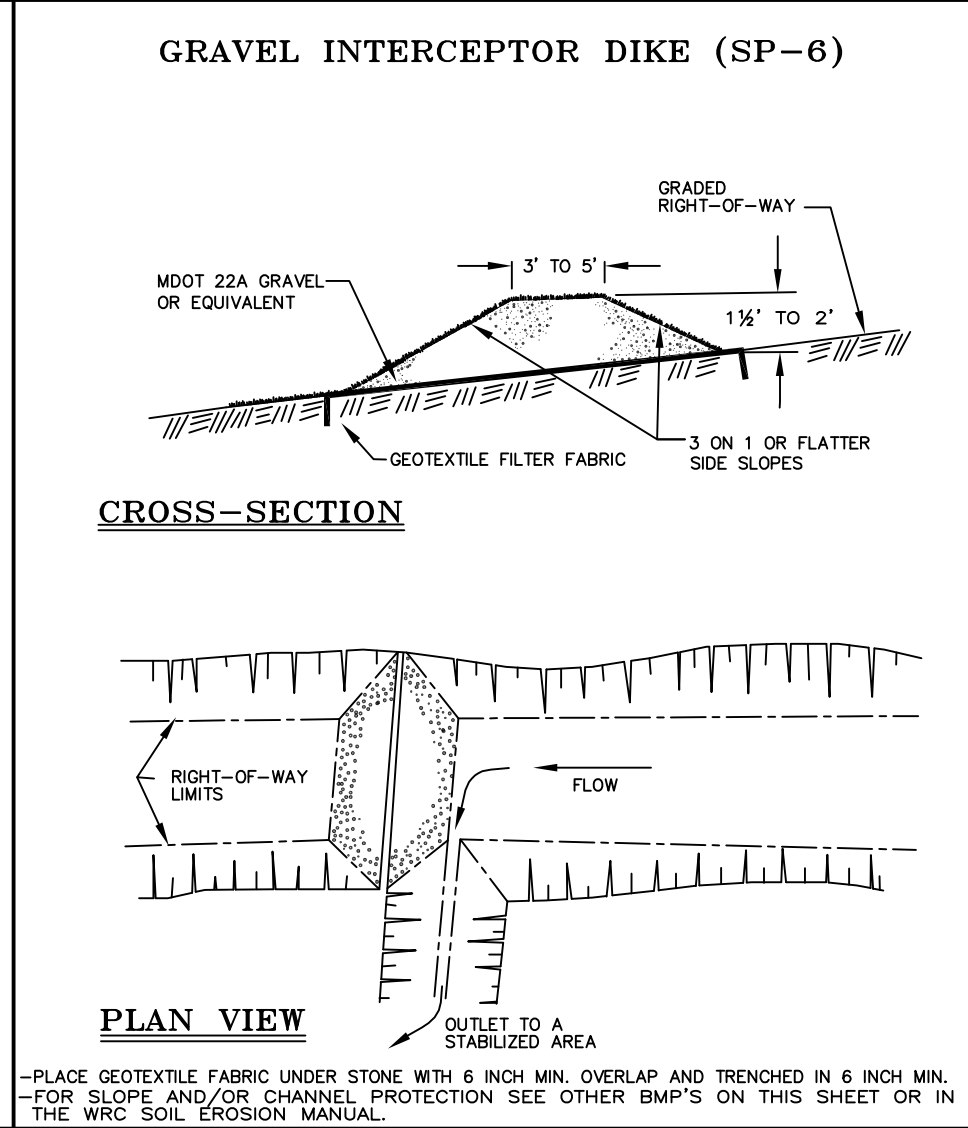
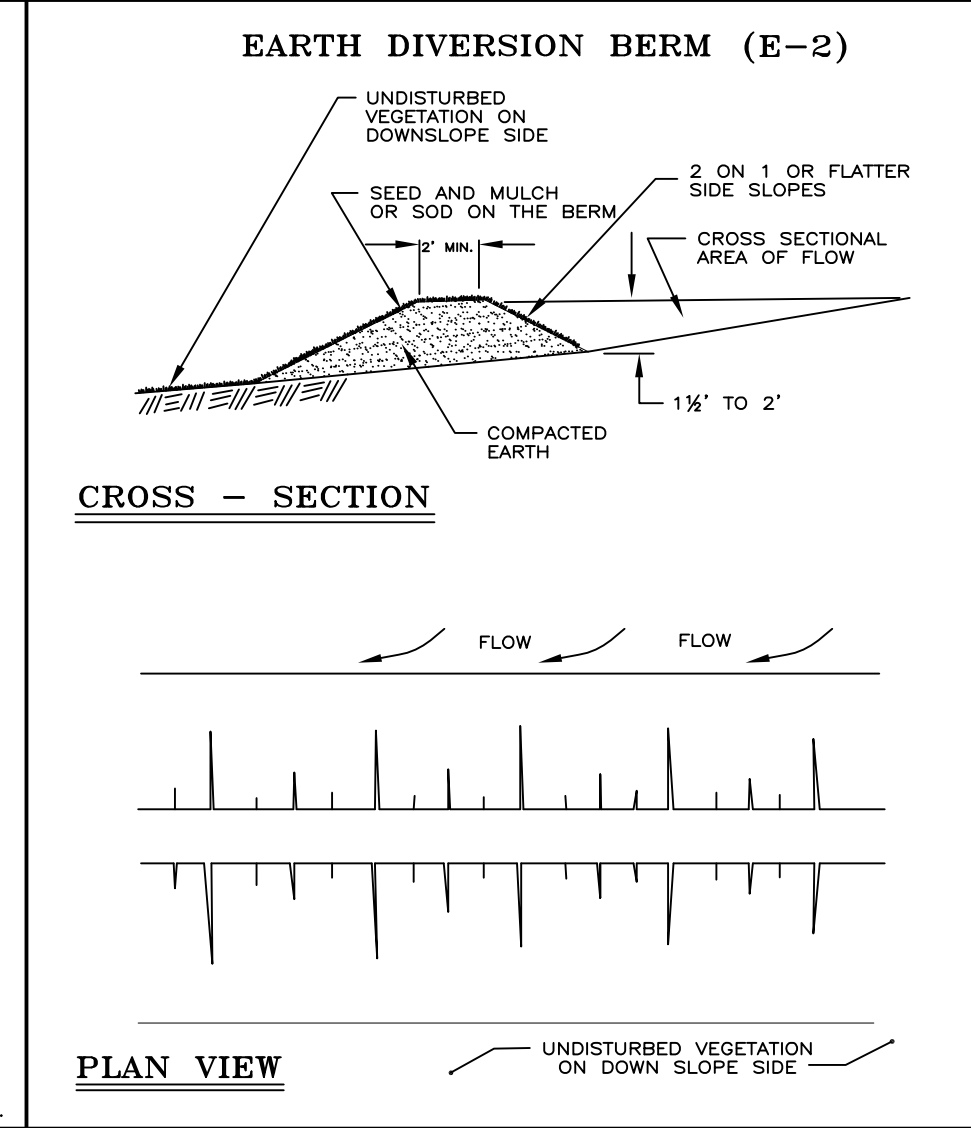
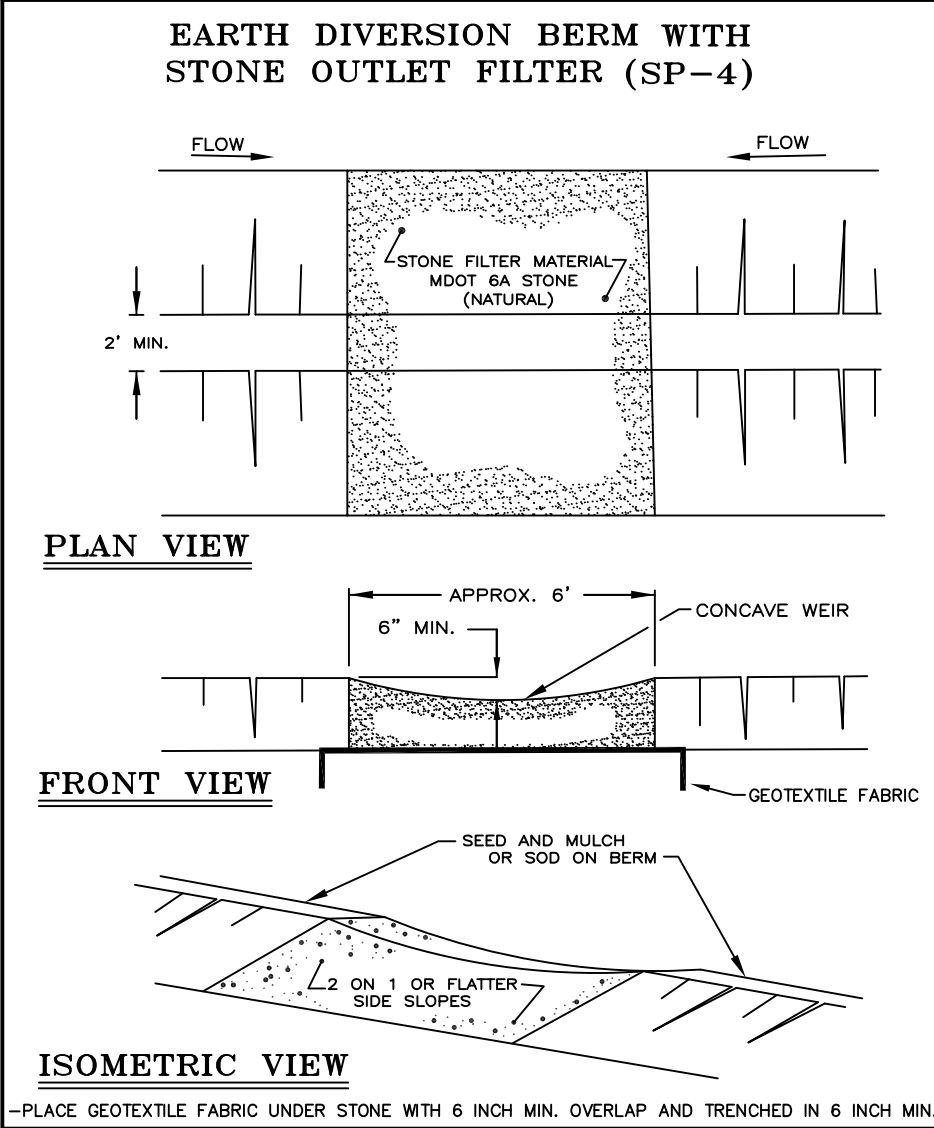
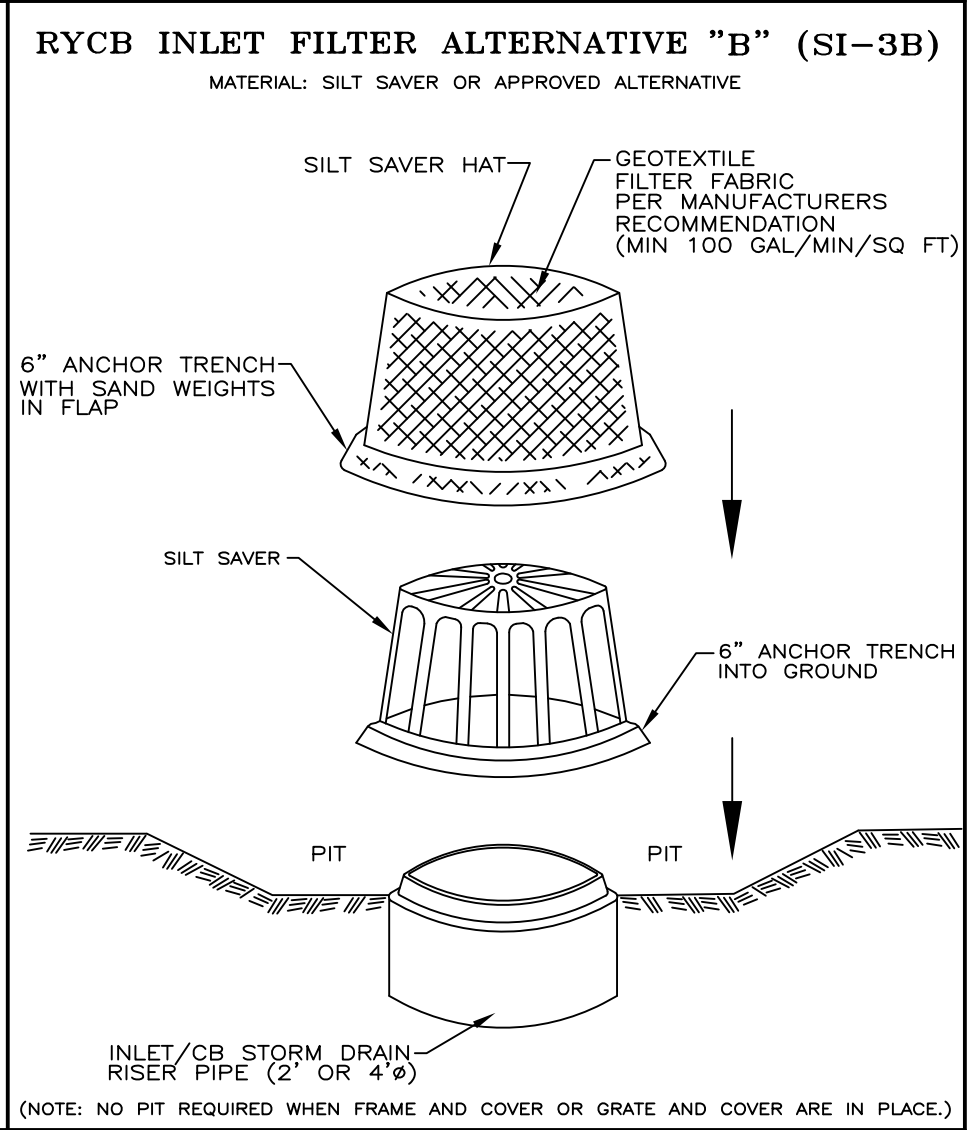
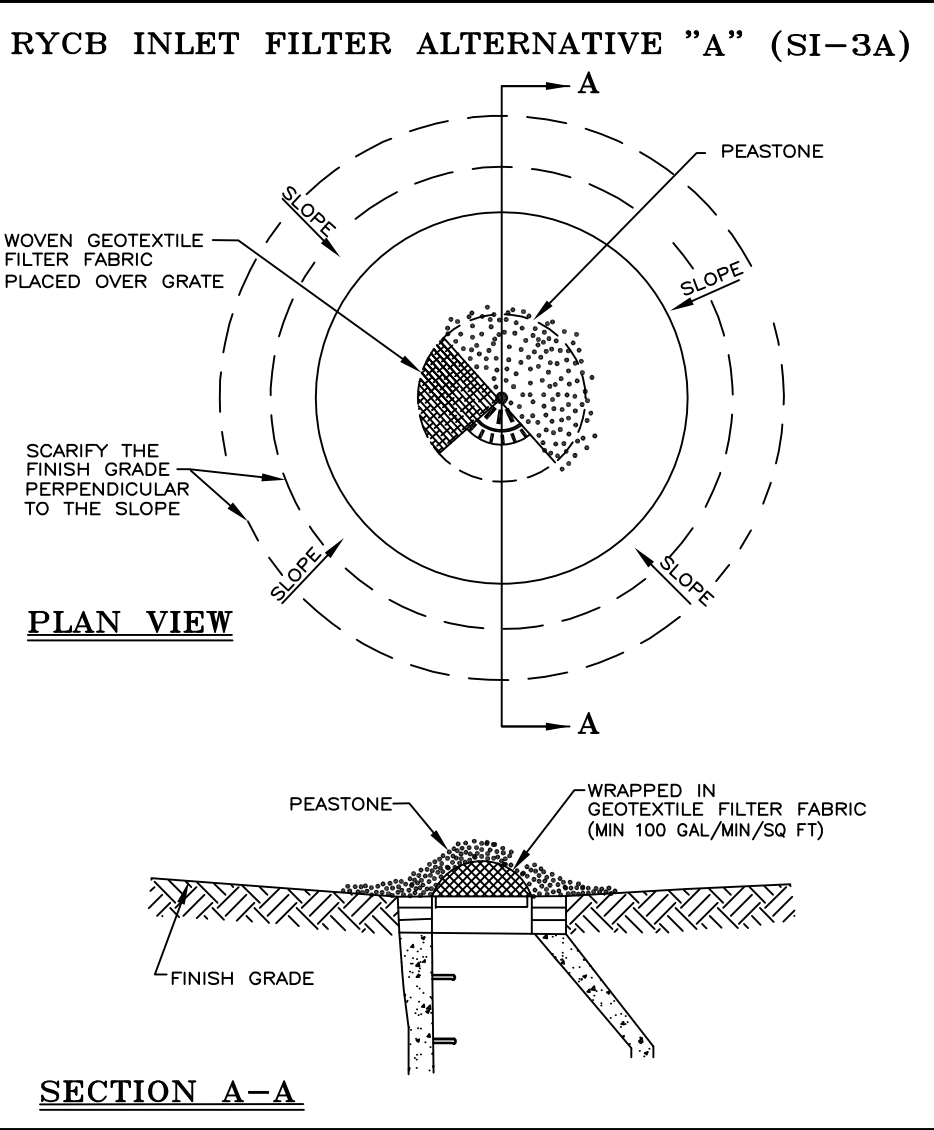
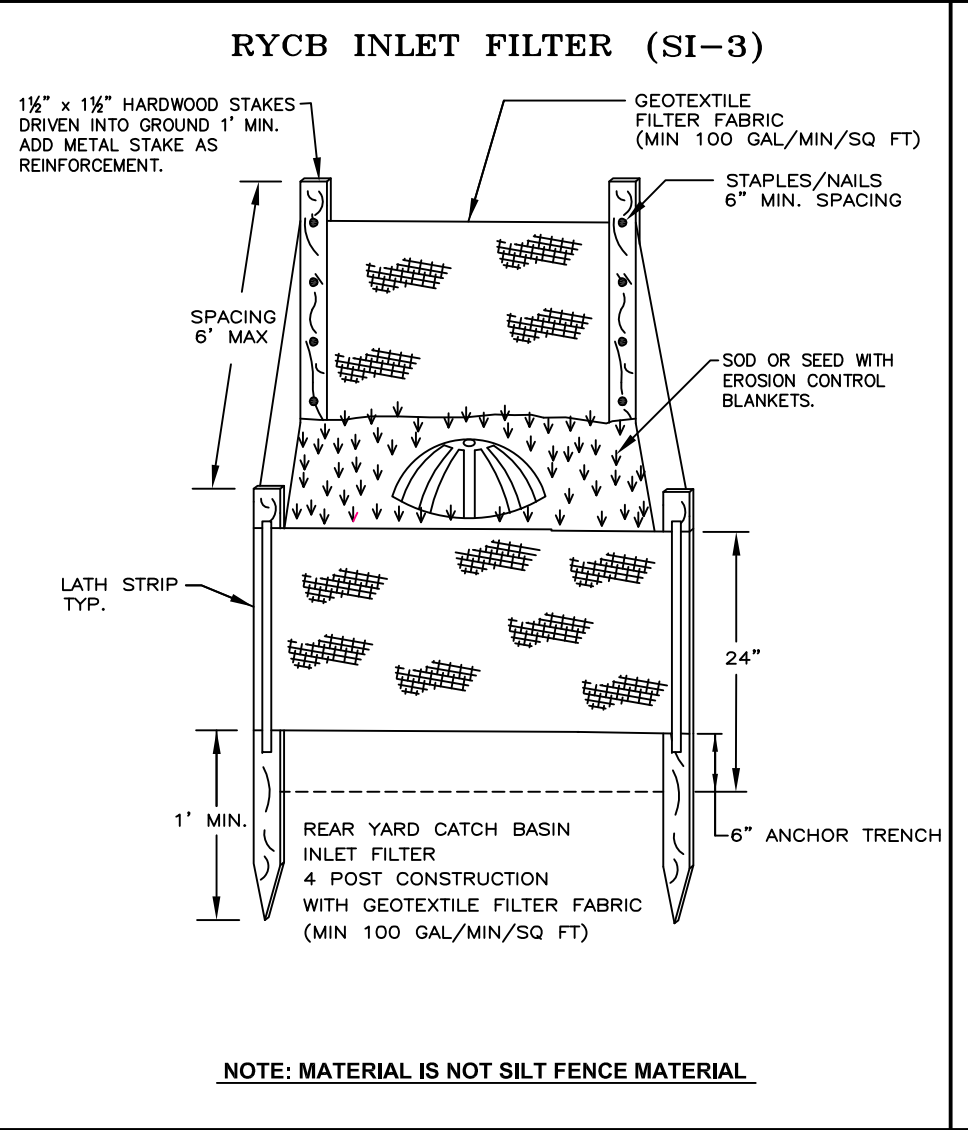
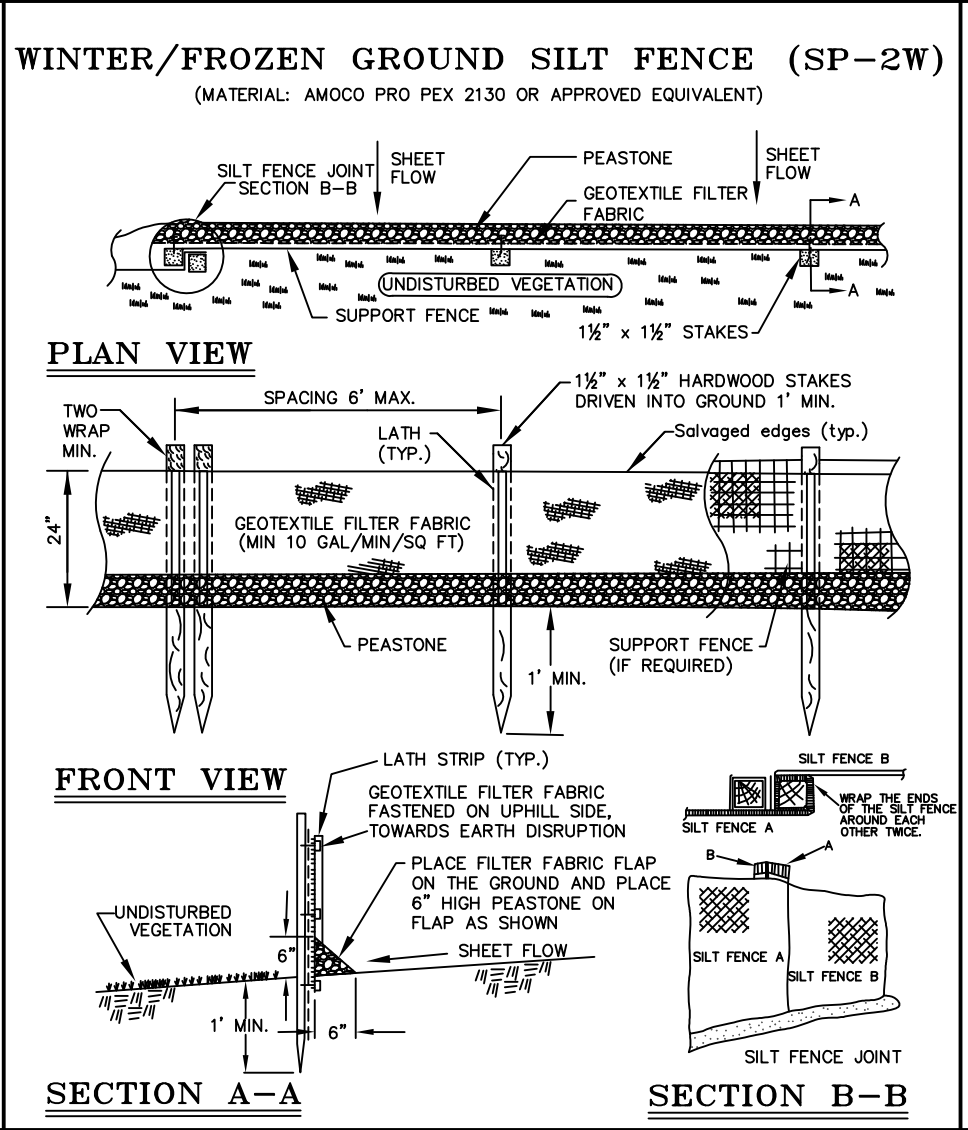
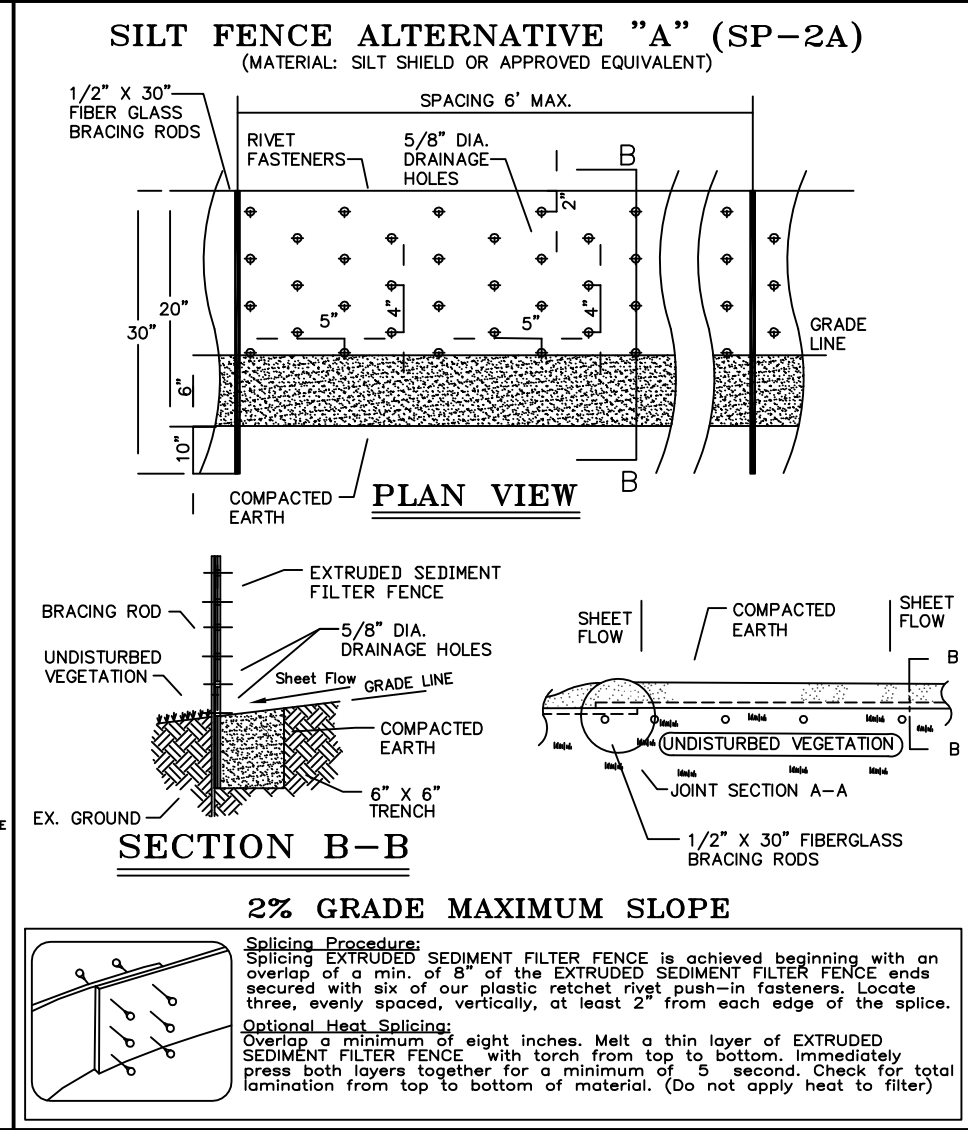
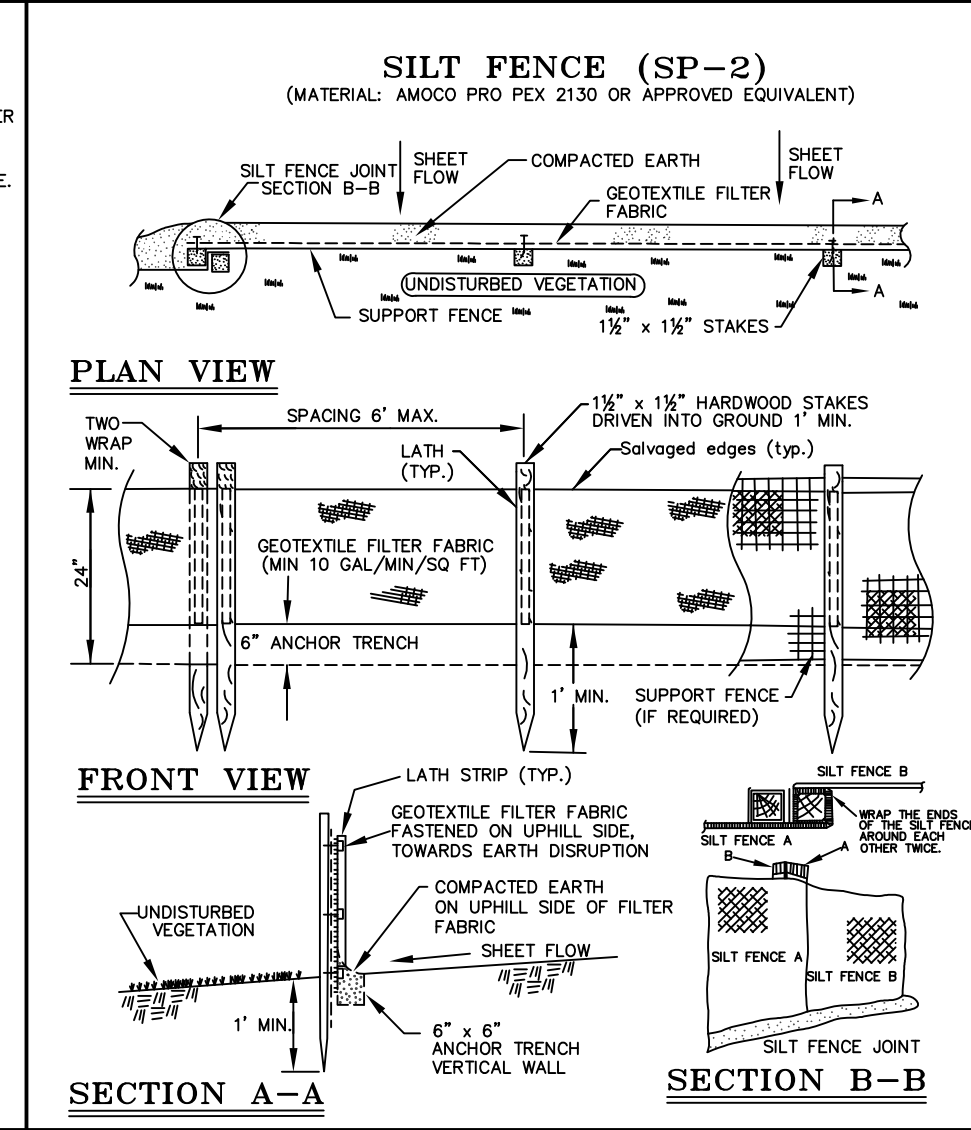
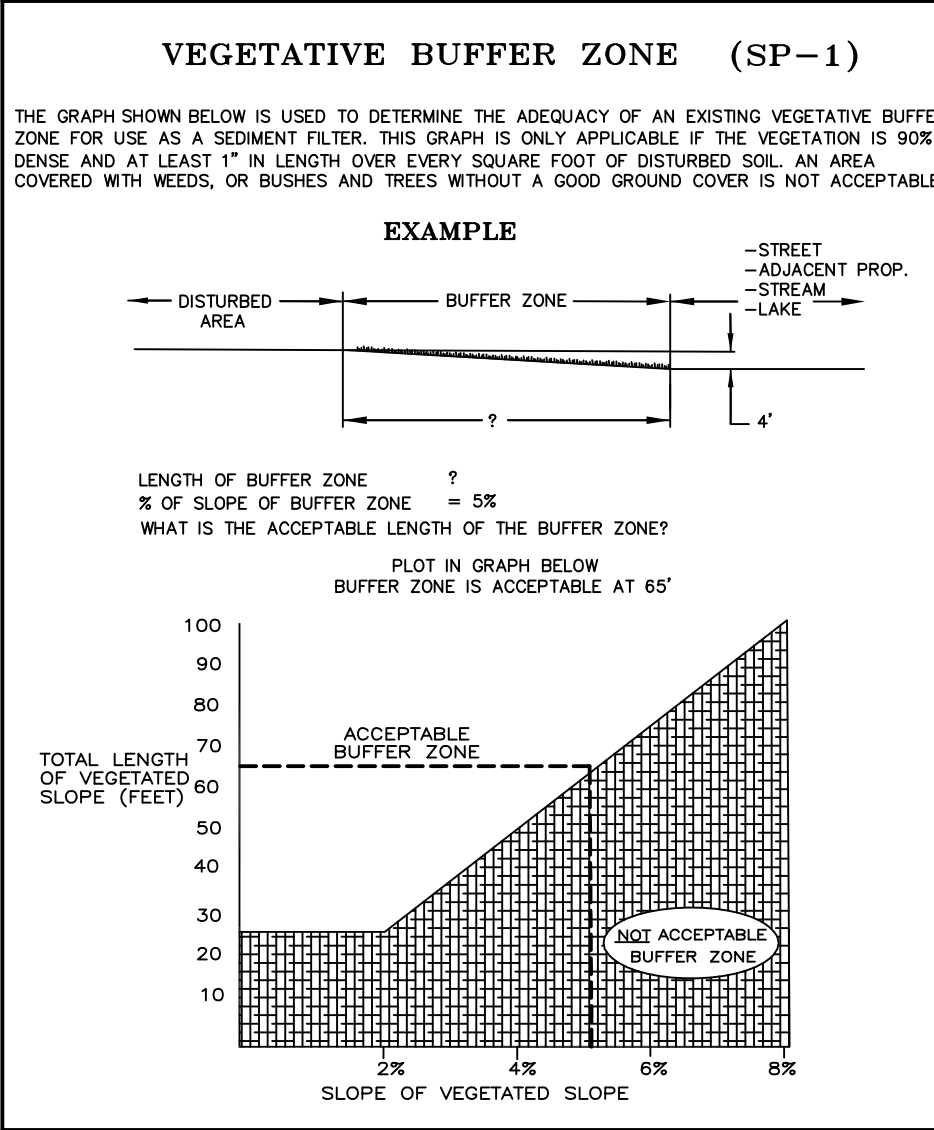
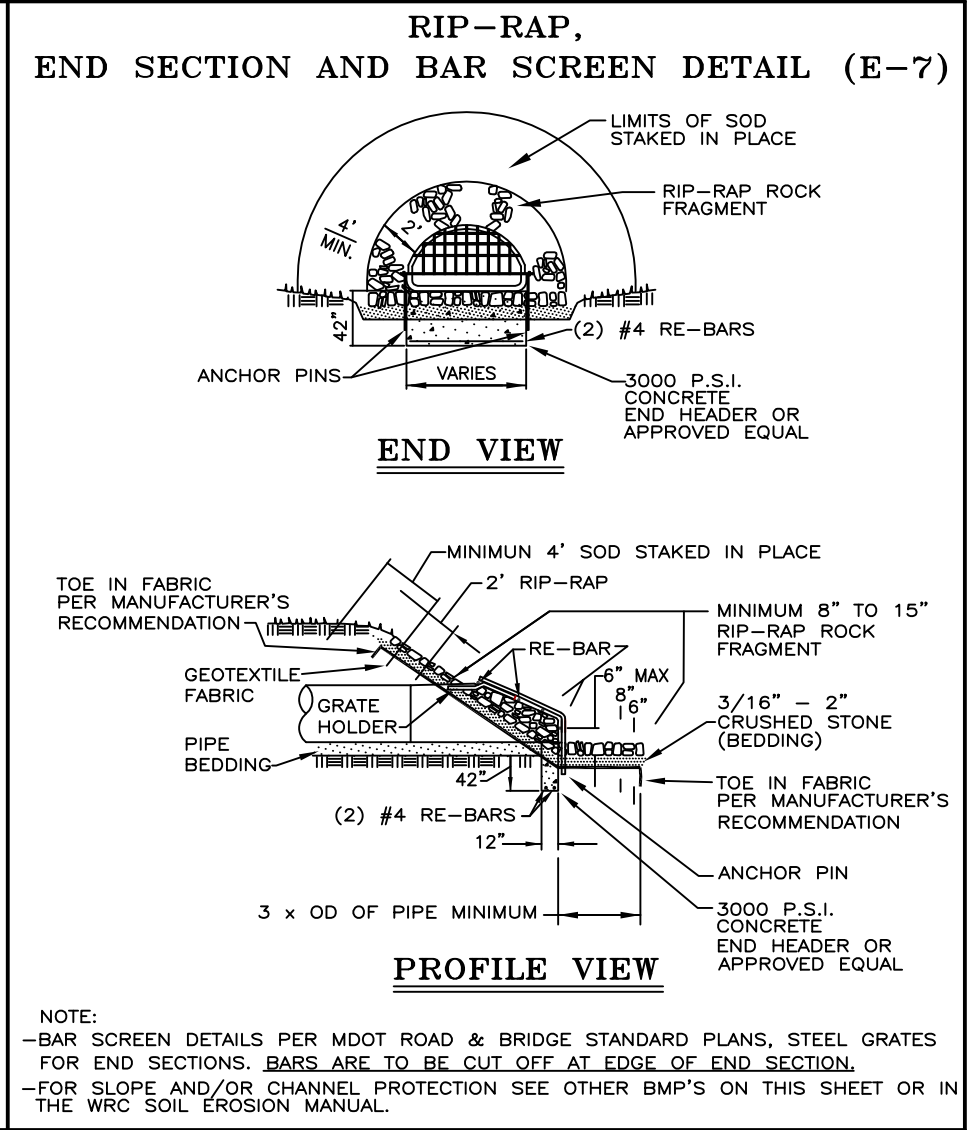
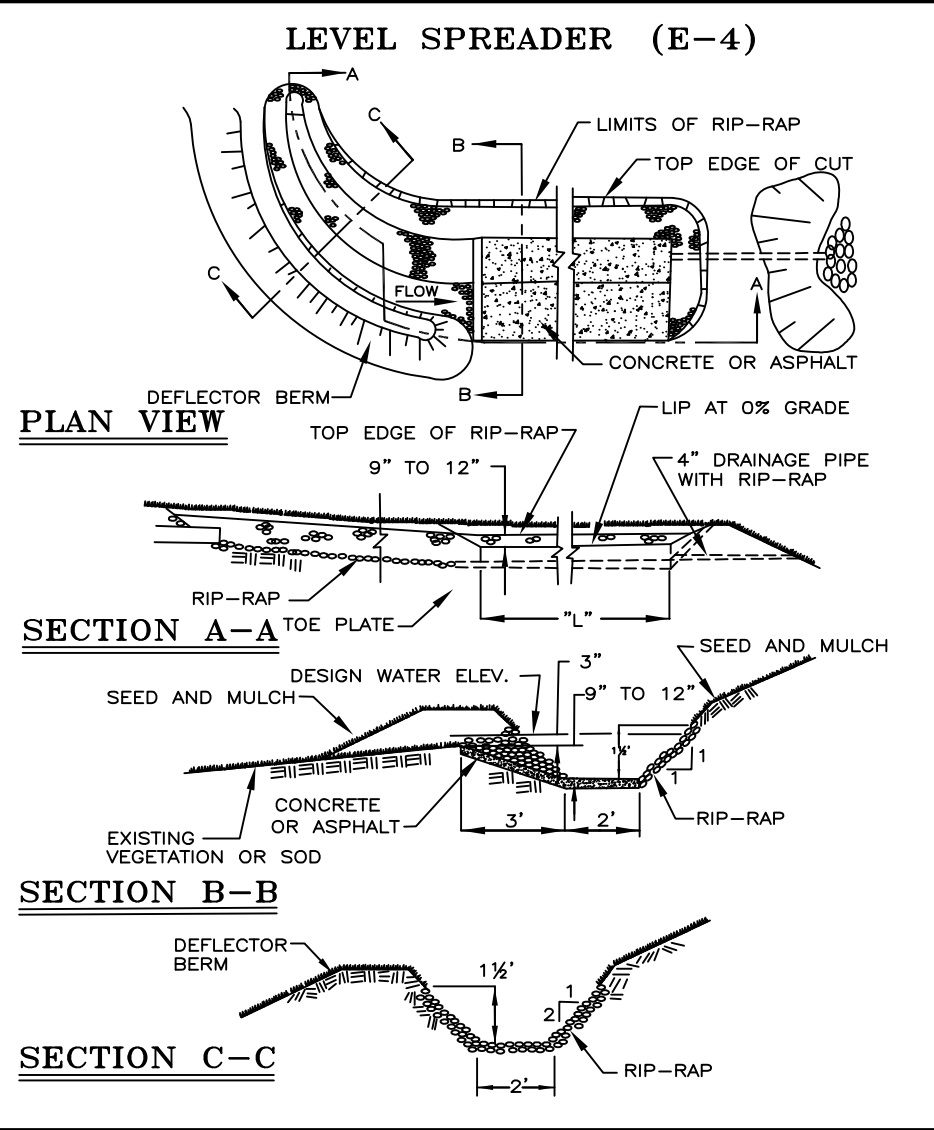
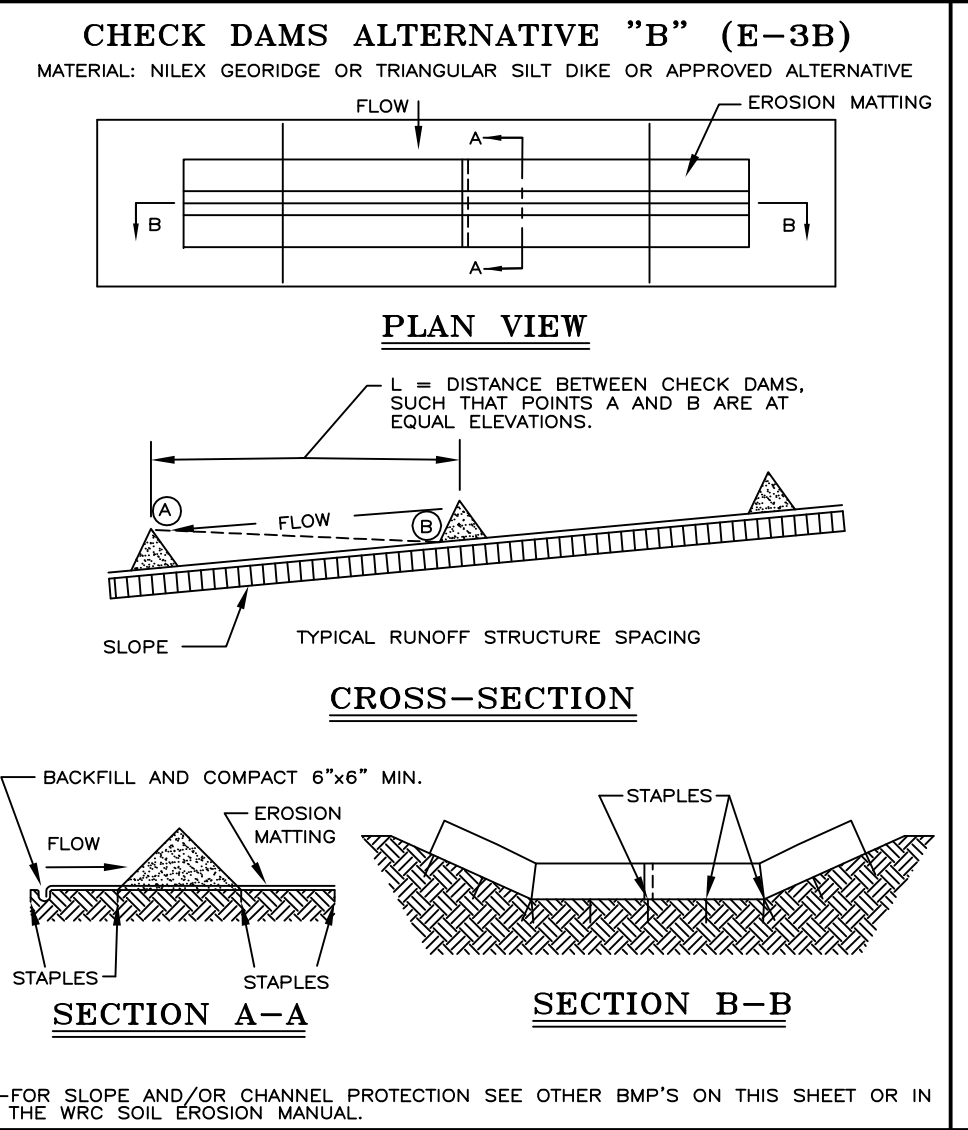
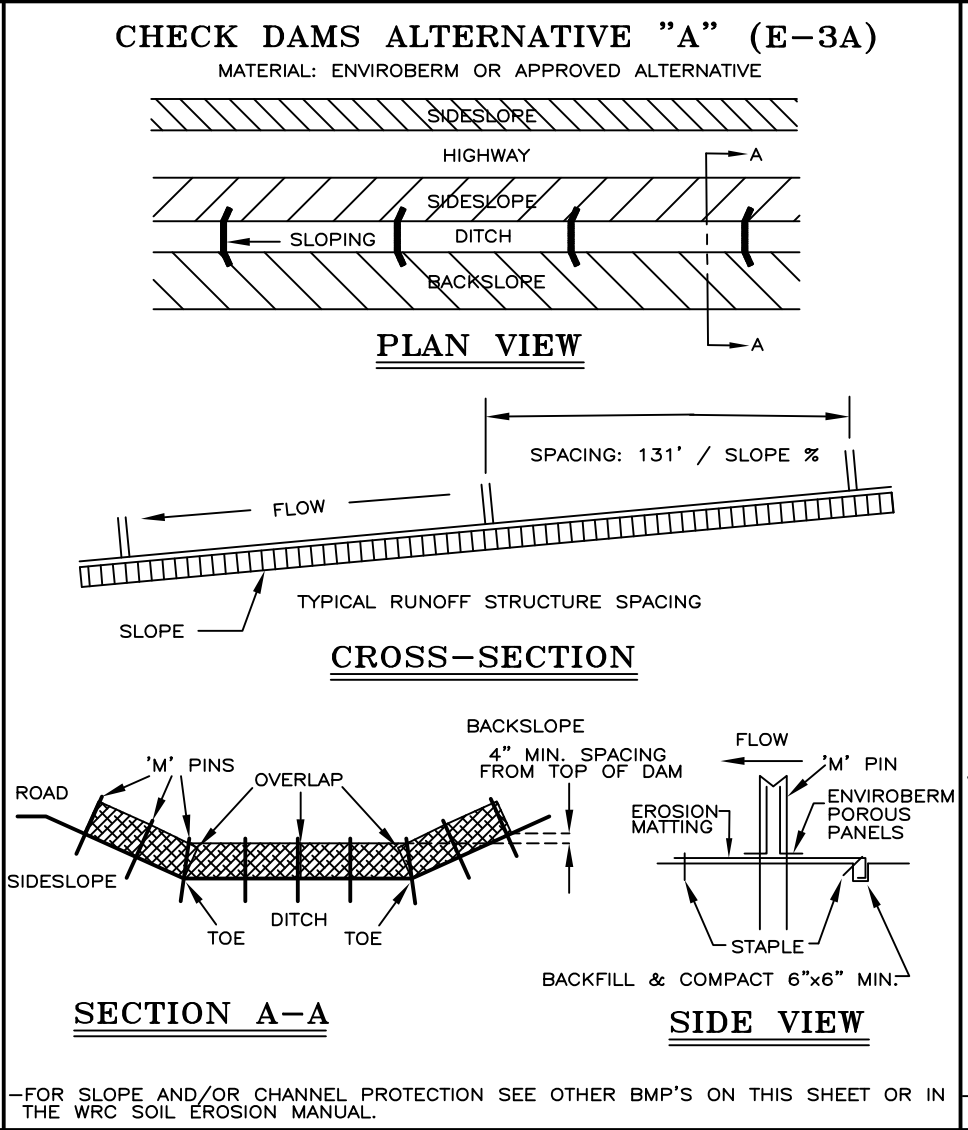
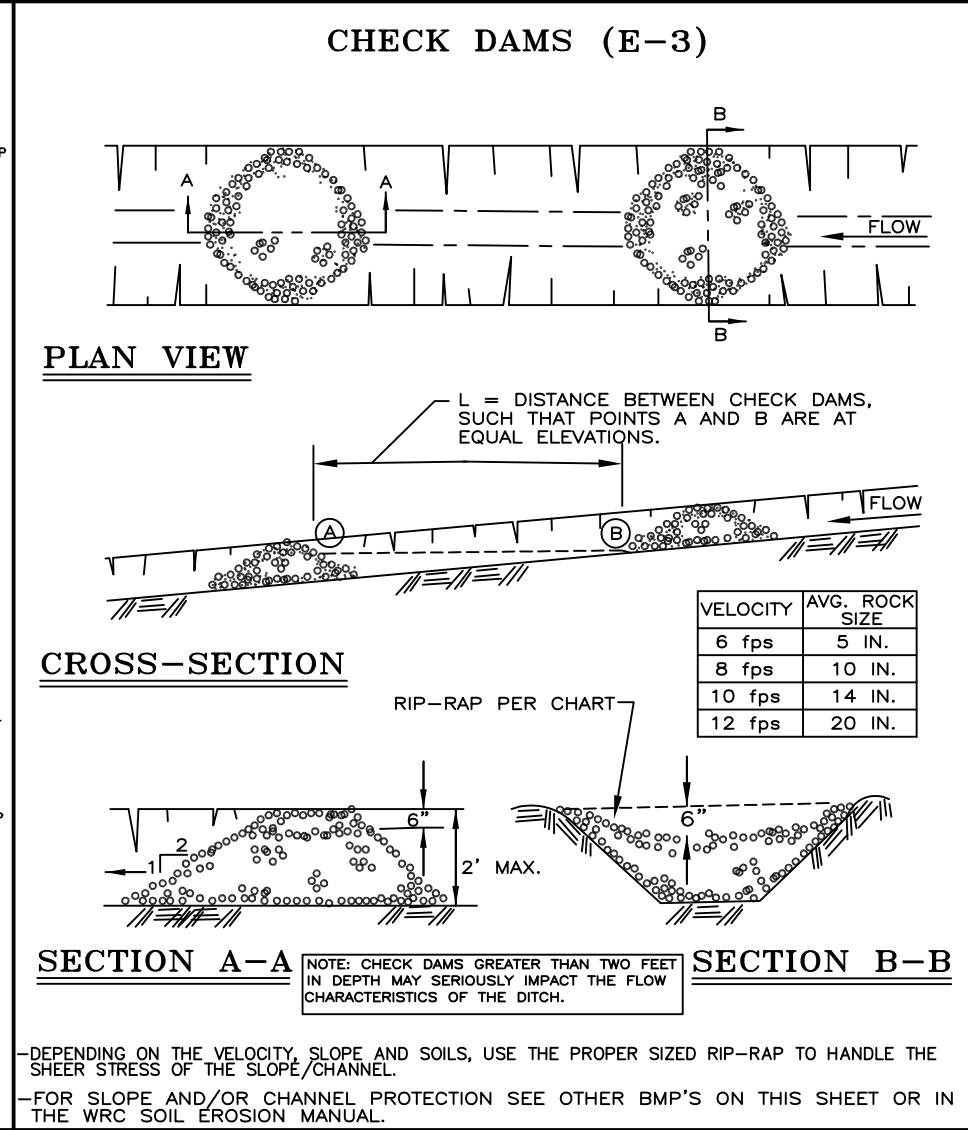
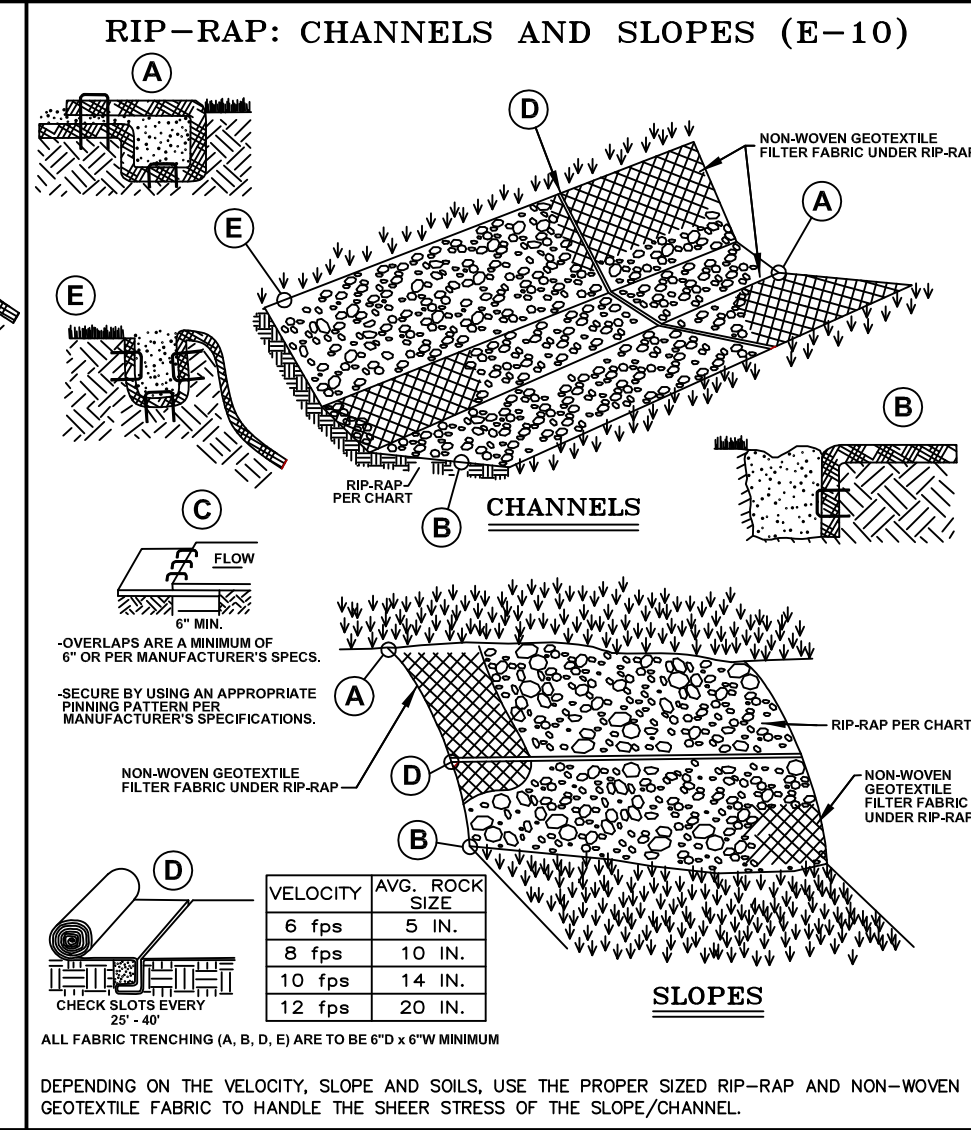
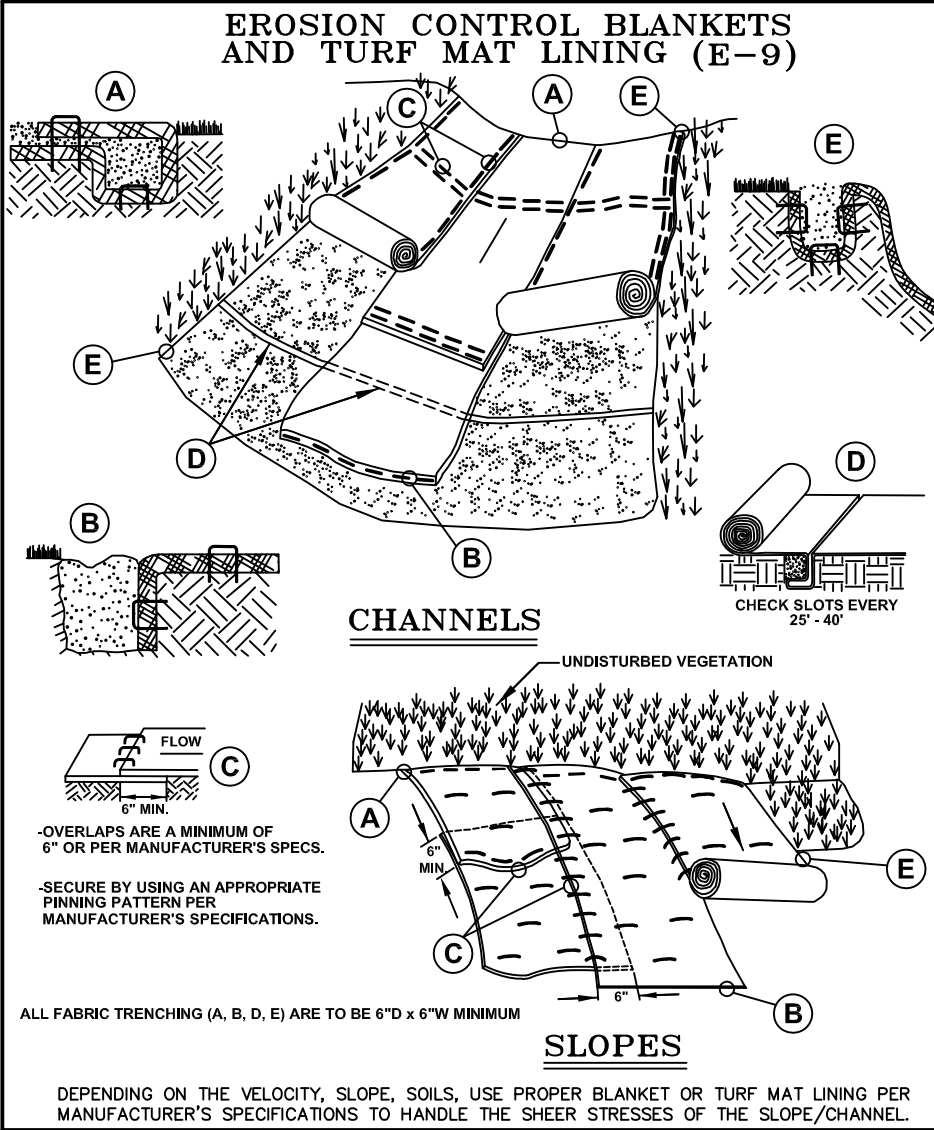
STORM SEWER STANDARD DETAILS AND NOTES



BLOOMFIELD TOWNSHIP ENGINEERING & ENVIRONMENTAL SERVICES
4200 TELEGRAPH ROAD
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DRAWN	DATE
	02/16/05
CHECKED	DATE
	02/16/05
PROJECT MANAGER	SCALE
	NO SCALE

SHEET NO.:
OF



NOTE:

WHILE PERFORMING WORK INVOLVING GROUNDS MAINTENANCE AND/OR THE CONSTRUCTION/MAINTENANCE OF ANY INFRASTRUCTURE, INCLUDING ROADS, WATER MAINS, SANITARY SEWERS, STORM DRAINS AND STORM WATER BEST MANAGEMENT PRACTICES (BMPs), CONTRACTORS SHALL MINIMIZE POLLUTION FROM STORM WATER RUNOFF THAT CAN AFFECT WATER QUALITY RELATED TO WORK ACTIVITIES. POLLUTANTS THAT COULD IMPAIR WATER QUALITY MAY INCLUDE FUEL, GREASE AND OIL, NUTRIENTS, BACTERIA AND PATHOGENS, LITTER AND DEBRIS, AND SOIL EROSION AND SEDIMENTATION. APPLICABLE BMPs SHALL BE IMPLEMENTED BY THE CONTRACTOR TO THE MAXIMUM EXTENT PRACTICABLE TO PROTECT WATER QUALITY AND WILDLIFE HABITAT.

SOIL EROSION AND SEDIMENTATION CONTROL DETAILS

REV.	DATE	DESCRIPTION
1	01/01/01	PROPOSED DETAIL
2	02/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES
3	03/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES
4	04/01/01	FOR CONSTRUCTION APPROVAL, NAME CHANGES

ORIG. DATE: 01/01/01

SCALE: _____

DESIGNED BY: WRC

DRAWN BY: Mapping

WRC WATER RESOURCES COMMISSIONER

ONE PUBLIC WORKS DRIVE, BLDG 905 WEST WATERFORD, MICHIGAN 48320-1907

SHEET NO.: 1 of 1