

Kenton C. Ward, CFM
Surveyor of Hamilton County
Phone (317) 776-8495
Fax (317) 776-9628

Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

June 24, 2013

To: Hamilton County Drainage Board

Re: Elwood Wilson Drain, Library Arm – Terry Lee Crossing Relocation

Attached is a petition and plans for the proposed relocation of the Elwood Wilson Drain, Library Arm. The relocation is being proposed by Terry Lee Crossing LLC. The proposal is to relocate the drain across parcel 11-07-32-00-00-024.000, owned by Terry Lee Crossing, LLC as part of the Terry Lee Crossing project per plans by American Structurepoint, Job No. 2012.00089, revision date May 31, 2013.

Per the plans, the Library Arm will be piped from the south side of SR32/38 to the open ditch of the Elwood Wilson Drain. This will replace both the existing swale and the 8" tile south of SR32/38.

This line will consist of the following:

668' of 42" RCP

The total length of the relocated portion of the Library Arm shall be 668 feet. The 645 feet of existing drain between Sta. 5+55 and 12+00 shall be vacated. This proposal will add 23 feet to the drain's total length.

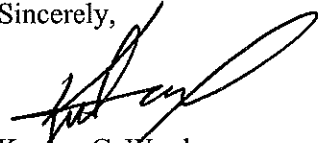
The cost of the relocation is to be paid by Terry Lee Crossing LLC. Upon approval of the relocation, prior to construction, the developer will provide surety in the amount of 120% of the construction costs of the proposed relocation.

The easement for the relocated drain will be the statutory easement of 75' foot per half as measured from the centerline of the pipe, until such time as a non-enforcement request is approved by the Board. The non-enforcement request is expected to be submitted in the near future by the petitioner as part of the land plan for Terry Lee Crossing.

This relocation is currently being reviewed by the Drainage Board's consultant, Christopher B. Burke Engineering, Ltd., for compliance with the flood study. This relocation plan is a part of the overall master planning and design for the Terry Lee Crossing commercial development.

The project falls under the requirements as set out in IC 36-9-27-52.5. Therefore, a hearing is not required for the petition. I recommend that the Board approve the petition.

Sincerely,

A handwritten signature in black ink, appearing to read 'Kenton C. Ward', written over a horizontal line.

Kenton C. Ward
Hamilton County Surveyor

KCW/stc

HAMILTON COUNTY DRAINAGE BOARD
NOBLESVILLE, INDIANA

FILED

JUN - 3 2013

IN RE: _____)
Hamilton County, Indiana)

OFFICE OF HAMILTON COUNTY SURVEYOR

PETITION FOR RELOCATION AND RECONSTRUCTION

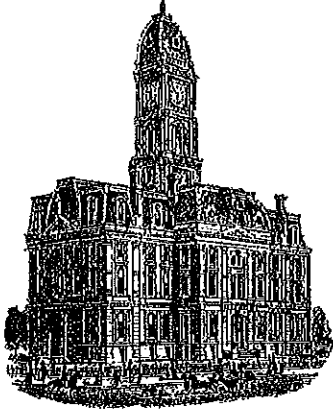
_____ Terry Lee Companies, Inc. _____ (hereinafter "Petitioner"),

hereby petitions the Hamilton County Drainage Board for authority to relocate and improve a section of the _____ Elwood Wilson _____ Drain, and in support of said petition advises the Board that:

1. Petitioner owns real estate through which a portion of the _____ Elwood Wilson _____ Drain runs.
2. Petitioner plans to develop its real estate with roads, buildings, utilities, storm drains, sanitary sewers and other structures.
3. Petitioner's proposed development of its real estate will require relocation and reconstruction of a portion of the _____ Elwood Wilson _____ Drain, as specifically shown on engineering plans and specifications filed with the Hamilton County Surveyor.
4. The work necessary for the proposed relocation and reconstruction will be undertaken at the sole expense of the Petitioner and such work will result in substantial improvement to the _____ Elwood Wilson _____ Drain, without cost to other property owners on the watershed of the _____ Elwood Wilson _____ Drain.
5. Proposed relocation and reconstruction will not adversely affect other land owners within the drainage shed.
6. Petitioner requests approval of the proposed relocation and reconstruction under IC 36-9-27-52.5.

WHEREFORE, Petitioner requests that an Order issued from the Hamilton County Drainage Board authorizing relocation and reconstruction of the _____ Elwood Wilson - _____ Drain, in conformance with applicable law and plans and specifications on file with the Hamilton County Surveyor.

M D COOKE
Signed
M D COOKE
Printed



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Surveyor of Hamilton County
Phone (317) 776-8495
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Suite 188
One Hamilton County Square
Noblesville, Indiana 46060-2230

To: Hamilton County Drainage Board

February 11, 2016

Re: Elwood Wilson: Terry Lee Crossing Relocation of Library Arm

Attached are as-built, certificate of completion & compliance, and other information for Terry Lee Crossing Relocation of Library Arm. An inspection of the drainage facilities for this section has been made and the facilities were found to be complete and acceptable.

During construction, changes were made to the drain, which will alter the plans submitted with my report for this drain-dated June 24, 2013. The report was approved by the Board at the hearing held December 9, 2013. (See Drainage Board Minutes Book 15, Pages 288-289) The changes are as follows: The 668 feet of 42" RCP was shortened to 660 feet. The length of the drain due to the changes described above is now **660 feet**. The existing 8" tile was removed from Sta. 5+55 to Sta. 12+00.

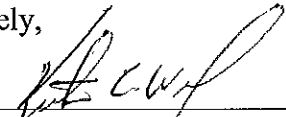
The drainage easement was outlined in the original report mentioned above. The following sureties were guaranteed by Western Surety Company and expired on December 14, 2013. It was replaced by a Cashier's Check which was released by the Board on its January 25, 2016 meeting.

Bond-LC No: 61789750
Amount: \$134,023.20
For: Storm Sewers
Issue Date: August 28, 2013

Check No: 11032014
Amount: \$124,166.00
For: Storm Sewers
Issue Date: 11-3-2014

I recommend the Board approve the drain's construction as complete and acceptable.

Sincerely,

A handwritten signature in black ink, appearing to read 'K. C. Ward', written over a horizontal line.

Kenton C. Ward, CFM
Hamilton County Surveyor

CERTIFICATE OF COMPLETION AND COMPLIANCE

To: Hamilton County Surveyor

Re: Terry Lee Crossing Hare Drain, Library Arm and Compensatory Storage Area As-Built,

I hereby certify that:

1. I am a Registered Land Surveyor or Engineer in the State of Indiana.
2. I am familiar with the plans and specifications for the above referenced subdivision.
3. I have personally observed and supervised the completion of the drainage facilities for the above referenced subdivision.
4. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been installed and completed in conformity with all plans and specifications.
5. The drainage facilities within the above referenced subdivision to the best of my knowledge, information and belief have been correctly represented on the Record Drawings, Digital Record Drawings and the Structure Data Spreadsheet.

Signature: _____

Date: 07-21-2015

Type or Print Name: Bradley Schrage, PE

Business Address: 7260 Shadeland Station

Indianapolis, IN 46256

Telephone Number: 317-547-5580

SEAL

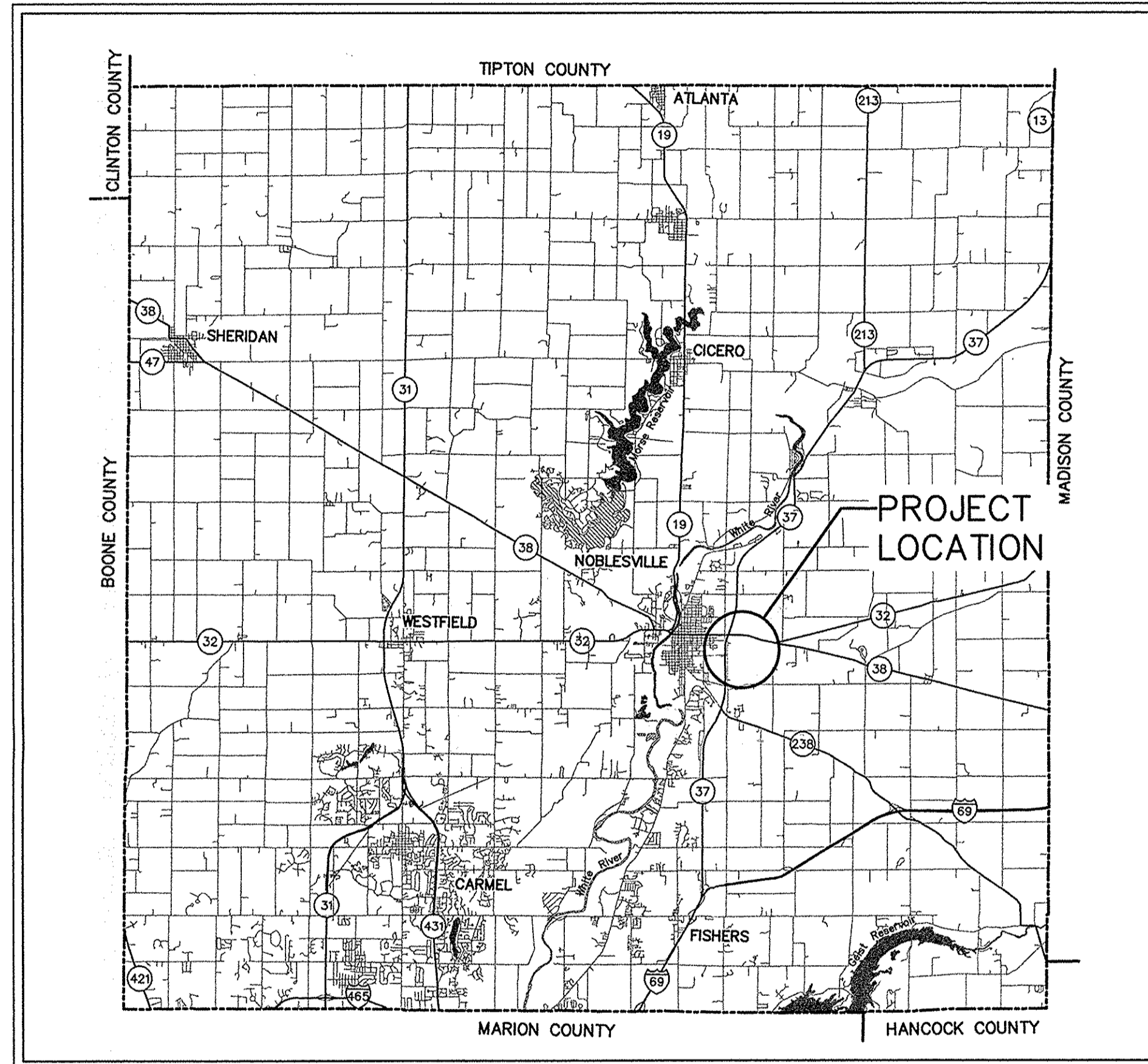
INDIANA REGISTRATION NUMBER

PE 11100062

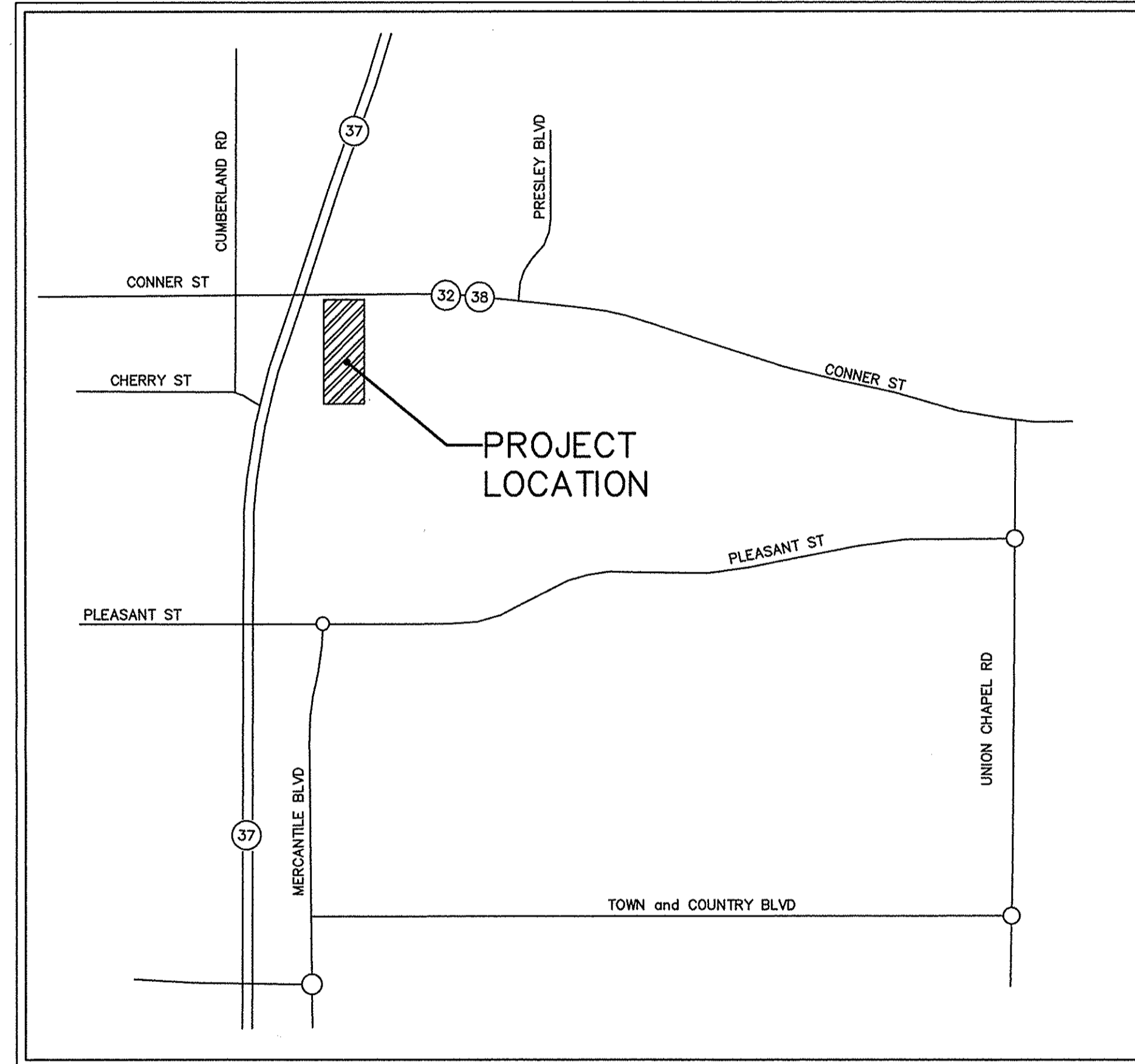


CONSTRUCTION PLANS

FOR ELWOOD WILSON LEGAL DRAIN LIBRARY ARM RELOCATION S.R. 37 @ SR. 32/38 NOBLESVILLE, INDIANA



LOCATION MAP
NOT TO SCALE

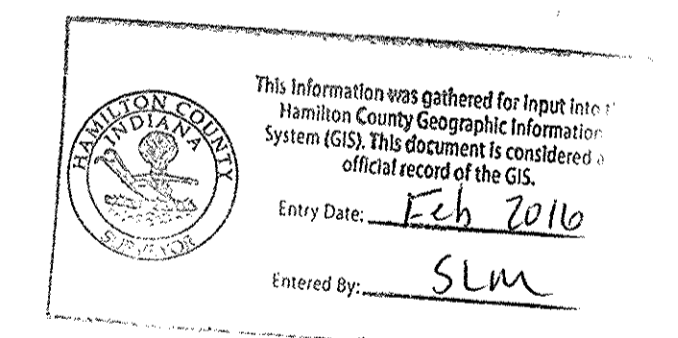


VICINITY MAP
NOT TO SCALE

INDEX	
DESCRIPTION	SHEET No.
TITLE SHEET	C001
EXISTING TOPOGRAPHY	C100
STORM SEWER - PLAN & PROFILE	C200
EROSION CONTROL PLAN	C300
EROSION CONTROL DETAILS	C301
STORM WATER POLLUTION PREVENTION PLAN	C302
SITE DETAILS	C400

PLAN DATE: 2013/05/31

REV	DATE	DESCRIPTION



FILED
JAN 07 2016
OFFICE OF HAMILTON COUNTY SURVEYOR

PLANS PREPARED FOR:
TERRY LEE CROSSING
8693 E. U.S. HIGHWAY 36
AVON, INDIANA

PLANS PREPARED BY:

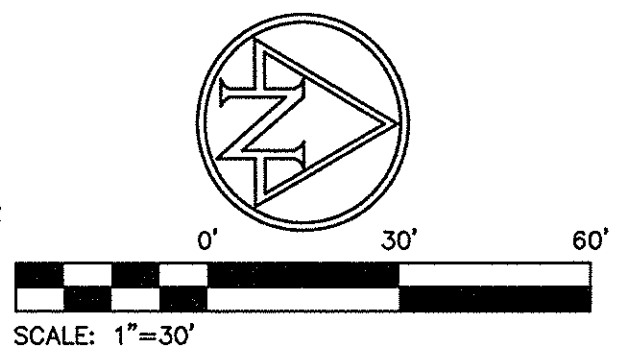
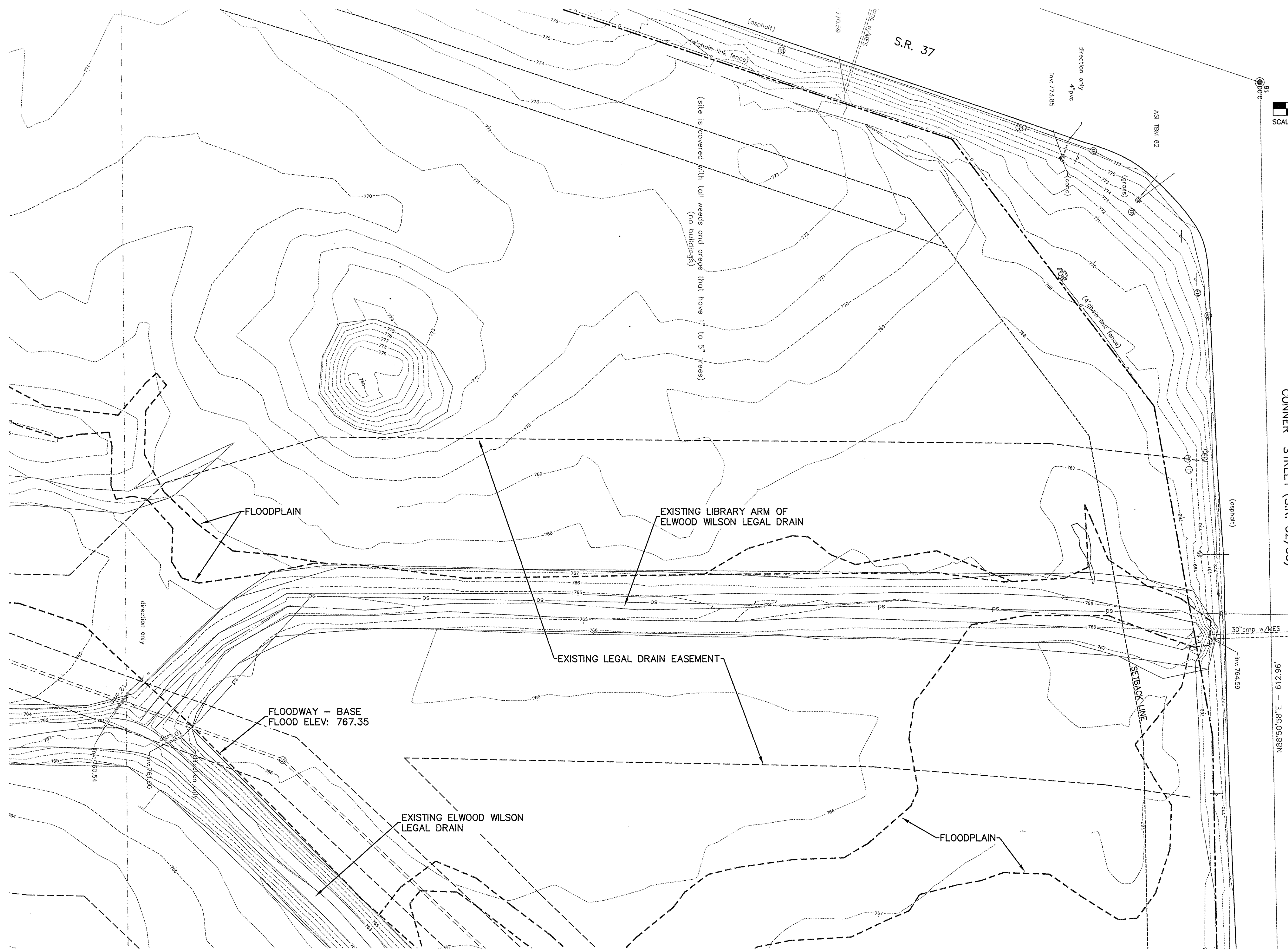


AS-BUILT

BRADLEY N. SCHRAGE, P.E.

C001
JOB# 2012.00089

PRINT DATE: 8/2/13 EDIT DATE: 5/31/13 - 9:58 AM EDITED BY: POTTERY DRAWING FILE: P:\2012\00089\0 DRAWINGS\CIVIL\PLANS SET\LIBRARY_ARM\02012.00089.CE.02.C100.XTP.DWG PLOT SCALE: 1:2,544



CONNER STREET (S.R. 32/38)

This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
 Entry Date: Feb 2016
 Entered By: JLM

FLOODWAY AND FLOODPLAIN SHOWN PER PRELIMINARY FIRM 18057 C 01610

EXISTING TOPOGRAPHY LEGEND

- | | |
|-----------------------|-----------------------------------------|
| ⊙ Drainage Manhole | ⊙ Telephone Manhole |
| ⊕ Drainage Inlet | ⊕ Traffic Manhole |
| — Guy Wire | ⊙ Traffic Pole |
| • Guard Post | ⊕ Vent |
| ⊠ Right-of-way Marker | tr Top Of Rim Elevation |
| ⊙ Clean Out | inv Invert Elevation |
| ⊙ Sanitary Manhole | opp Corrugated Plastic Pipe |
| ⊙ Sign | pvc Plastic Pipe |
| ⊙ Deciduous Tree | cmp Corrugated Metal Pipe |
| ⊙ Electric Handhole | vcp Clay Pipe |
| ☆ Light Pole | rcp Reinforced Concrete Pipe |
| ⊕ Power Pole | ohe Overhead Electric Line |
| ⊕ Transformer | otr Overhead Traffic Line |
| ⊕ Gas Marker | MES Metal End Section |
| ⊕ Brace Pole | PES Plastic End Section |
| | —sd— Approximate Location Of Field Tile |

BENCH INFORMATION
 NAVD '88
 S 237
 DISK IN CONCRETE; ±50' SOUTH OF & PLEASANT ST. AND ±165' WEST OF 19th ST. AND ±80' WEST OF THE HUMANE SOCIETY'S EAST DRIVE.
 ELEV - 768.27
 ASI TBM 80
 CHISELED SQUARE ON EAST SIDE LIGHT POLE ON EAST SIDE OF SR 37 AND ±550' NORTH OF PLEASANT ST.
 ELEV - 775.63
 ASI TBM 81
 CHISELED SQUARE ON EAST SIDE LIGHT POLE AT SOUTHEAST CORNER OF SR 37 AND CHERRY ST.
 ELEV - 773.65
 ASI TBM 82
 CHISELED "X" ON NW BOLT TRAFFIC POLE AT SOUTHEAST CORNER OF SR 37 AND SR 32/38.
 ELEV - 776.12
 ASI TBM 83
 CHISELED SQUARE ON NORTH SIDE LIGHT POLE AT SOUTHEAST CORNER OF SR 32/38 AND NOBLESVILLE COMMONS DRIVE.
 ELEV - 770.08

NOTES:
 1. CONTRACTOR SHALL PROTECT AND NOT DESTROY THE PROPERTY CORNER MONUMENTS DURING CONSTRUCTION.
 2. CONTRACTOR TO VERIFY LOCATION, SIZE AND DEPTH OF EXISTING UTILITIES PRIOR TO COMMENCING ANY CONSTRUCTION. CONTACT ENGINEER IF VARIATION EXISTS.

CAUTION !!
 THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.
 1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -

7260 SHADELAND STATION
 INDIANAPOLIS, IN 46286-3957
 TEL 317.547.5580 FAX 317.548.0270
 www.structurepoint.com

AMERICAN
STRUCTUREPOINT
 INC.

APPROVAL PENDING
NOT FOR CONSTRUCTION

APPROVED BY _____

EXISTING TOPOGRAPHY

PREPARED FOR:
TERRY LEE CROSSING
 8693 E. U.S. HIGHWAY 36
 AVON, INDIANA

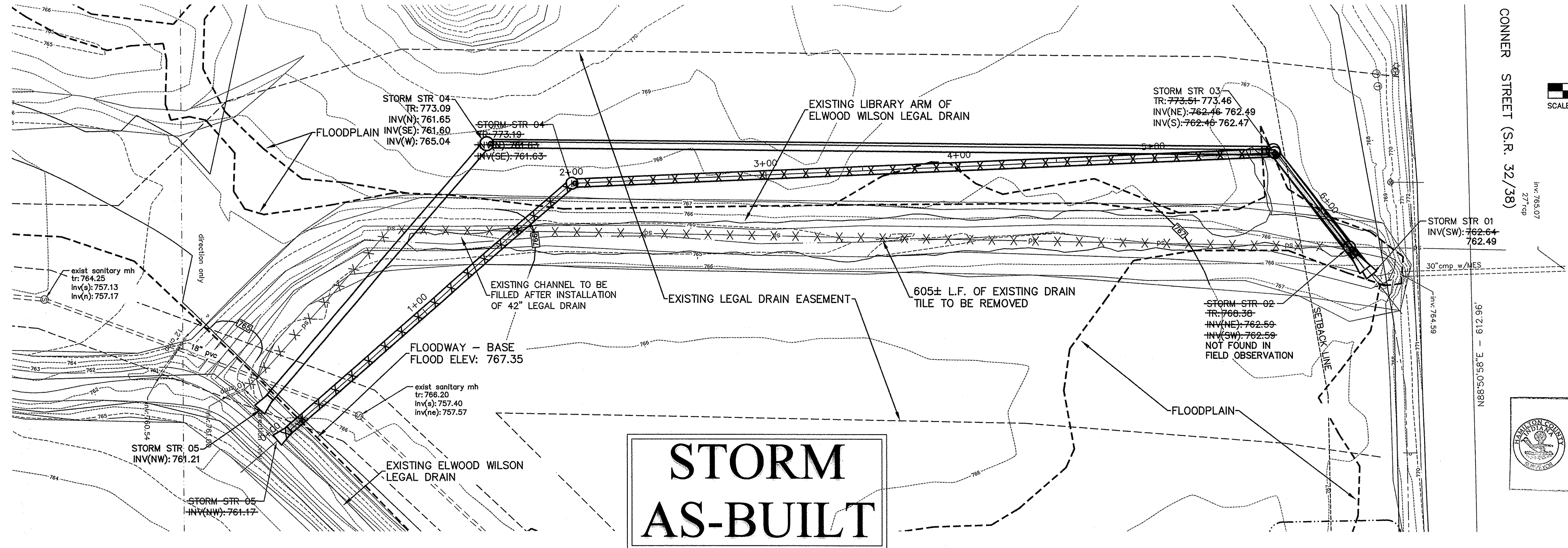
PROJECT:
ELWOOD WILSON LEGAL DRAIN
LIBRARY ARM RELOCATION
 NOBLESVILLE, INDIANA

DATE: 2013.05.31
 DRAWN BY: JCS
 CHK'D BY: BMS
 JOB NO. 2012.00089

REVISIONS	

SHEET NO.
C100
 OF

PRINT DATE: 1/19/16 PLOT SCALE: 1"=30' HORIZ 1"=5' VERT EDIT DATE: 5/31/13 - 3:37 PM EDITED BY: LBHANNON DRAWING FILE: F:\2013\01836\CALCS_DATA\SURVEY\TERRY LEE LEGAL DRAIN AS-BUILT\02013.01836.AB.02.C200.STMPP.LIBRARY.ARM.DWG

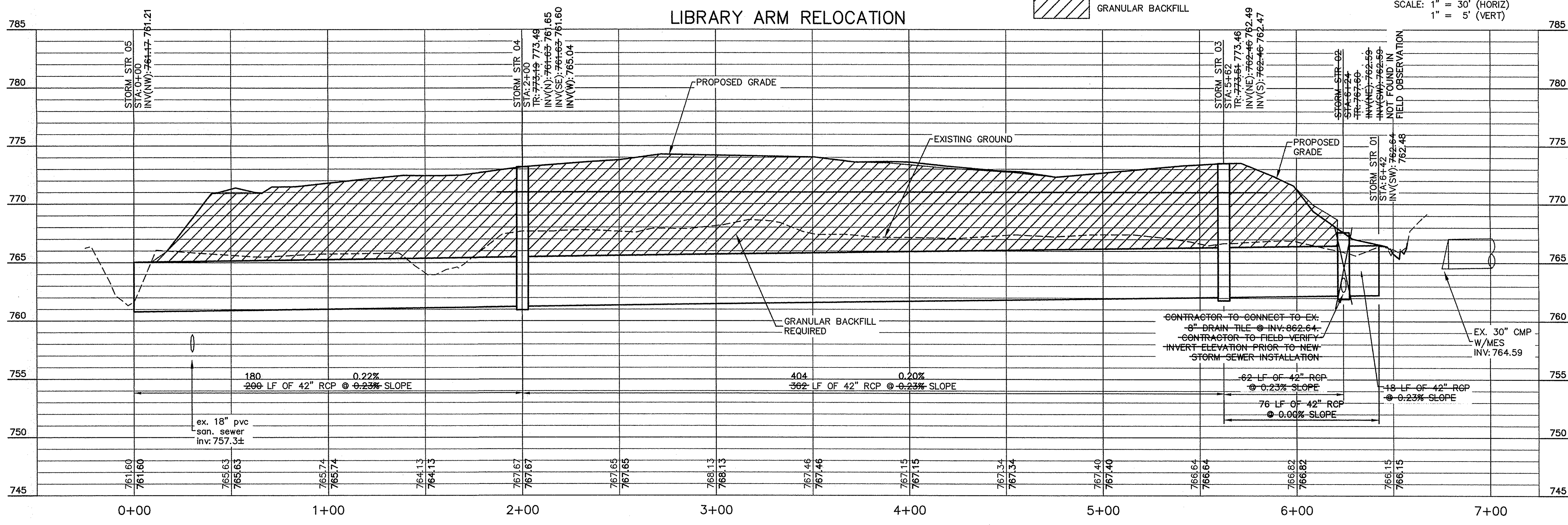


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 Entry Date: Feb 2016
 Entered By: SLm

APPROVAL PENDING
 NOT FOR CONSTRUCTION

CLASSIFIED BY

STORM AS-BUILT



STRUCTURE DATA TABLE			
STR. NO.	STRUCTURE & CASTING TYPE	T.O.R.	REMARKS
01	ISOMETRIC HEADWALL		ANIMAL GUARD REQUIRED
02	TYPE J MH / R-1772	767.60	NOT FOUND IN FIELD OBSERVATION
03	TYPE J MH / R-1772	773.51 / 773.46	
04	TYPE J MH / R-1772	773.19 / 773.49	
05	ISOMETRIC HEADWALL		ANIMAL GUARD REQUIRED

- EXISTING TOPOGRAPHY LEGEND**
- ⊙ Drainage Manhole
 - ⊕ Drainage Inlet
 - T Guy Wire
 - Guard Post
 - ⊠ Right-of-way Marker
 - ⊙ Sanitary Manhole
 - pvc Plastic Pipe
 - ⊙ Electric Handhole
 - ☆ Light Pole
 - ⊙ Power Pole
 - ⊙ Transformer
 - ⊙ Gas Marker
 - ⊙ Brace Pole
 - ⊙ Telephone Manhole
 - ⊙ Traffic Manhole
 - ⊙ Traffic Pole
 - ⊙ Vent
 - tr Top of Rim Elevation
 - inv Invert Elevation
 - ppp Corrugated Plastic Pipe
 - pvc Plastic Pipe
 - cmp Corrugated Metal Pipe
 - vcp Clay Pipe
 - rcp Reinforced Concrete Pipe
 - ohp Overhead Electric Line
 - otr Overhead Traffic Line
 - MES Metal End Section
 - PES Plastic End Section
 - d— Approximate Location Of Field Tile

BENCH INFORMATION
 NAVD '88

S 237
 DISK IN CONCRETE; ±50' SOUTH OF E PLEASANT ST. AND ±165' WEST OF 19th ST. AND ±60' WEST OF THE HUMANE SOCIETY'S EAST DRIVE.
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 ELEV - 775.63

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 ELEV - 770.08

NOTES:

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1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -

STORM SEWER AS-BUILT STATEMENT

As-Built information for storm sewer rims are based upon above ground evidence of the existing storm sewer system. The strike through data shown on the Storm Sewers are the proposed elevations for all the structures to be placed. Said information has been replaced by the as-built information per elevations collected in the field on July 2, 2015.

Nathan D. Harris
 Nathan D. Harris
 Registered Land Surveyor No. 21200023



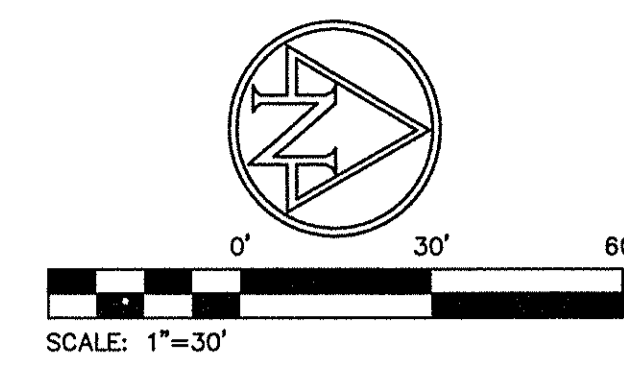
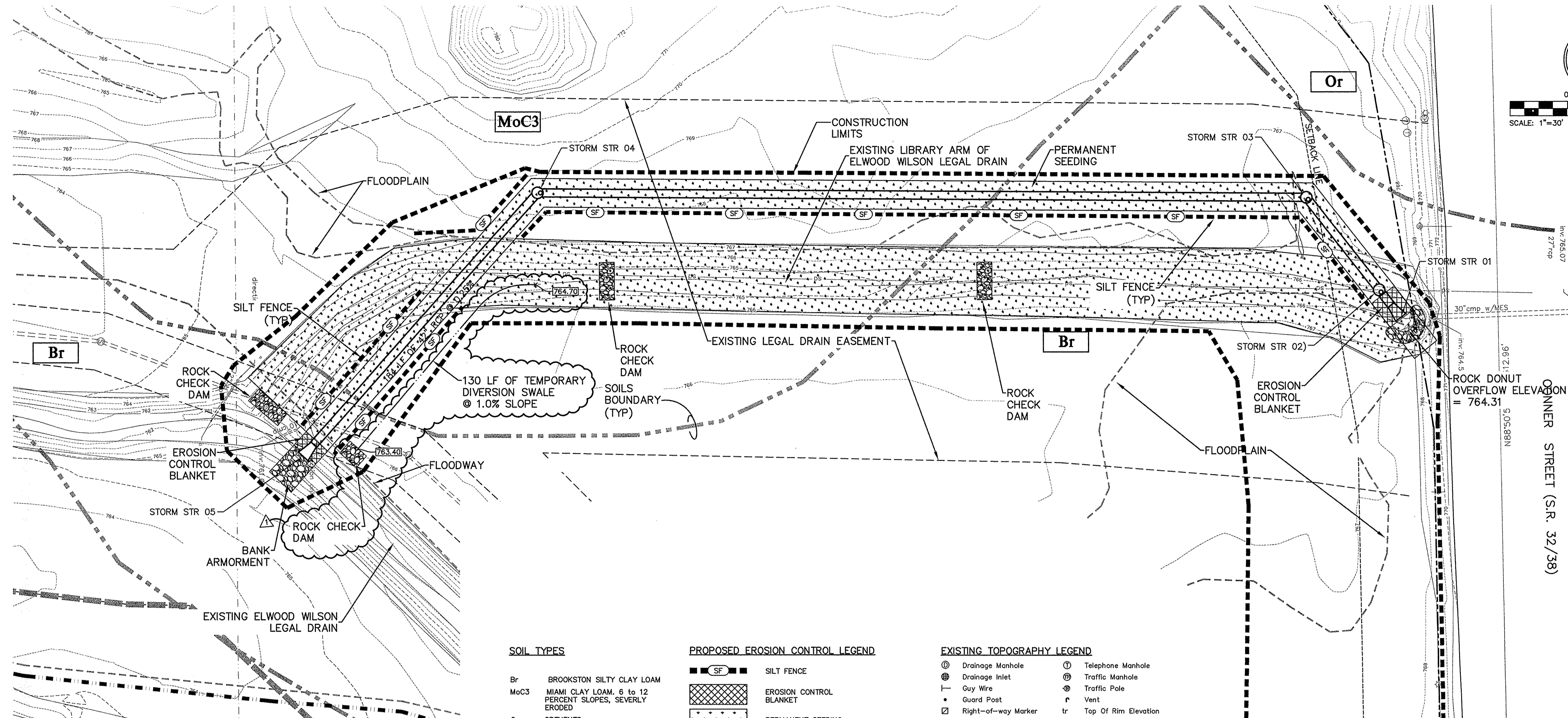
STORM SEWER - PLAN AND PROFILE
 PREPARED FOR:
 TERRY LEE CROSSING
 8693 E. U.S. HIGHWAY 36
 AVON, INDIANA

PROJECT:
 ELWOOD WILSON LEGAL DRAIN
 LIBRARY ARM RELOCATION
 NOBLESVILLE, INDIANA

DATE: 2013.05.31
 DRAWN BY: JCS
 CHK'D BY: BHS
 JOB NO.: 2012.00089

REVISIONS	

SHEET NO.
C200
 OF



SOIL TYPES

Br	BROOKSTON SILTY CLAY LOAM
MoC3	MIAMI CLAY LOAM, 6 TO 12 PERCENT SLOPES, SEVERLY ERODED
Or	ORTHERTS

PROPOSED EROSION CONTROL LEGEND

	SILT FENCE
	EROSION CONTROL BLANKET
	PERMANENT SEEDING
	RIPRAP
	SOILS BOUNDARY
	CONSTRUCTION BOUNDARY

EXISTING TOPOGRAPHY LEGEND

	Drainage Manhole		Telephone Manhole
	Drainage Inlet		Traffic Manhole
	Guy Wire		Traffic Pole
	Guard Post		Vent
	Right-of-way Marker		Top Of Rim Elevation
	Clean Out		Invert Elevation
	Sanitary Manhole		Corrugated Plastic Pipe
	Sign		Plastic Pipe
	Deciduous Tree		Corrugated Metal Pipe
	Electric Handhole		Clay Pipe
	Light Pole		Reinforced Concrete Pipe
	Power Pole		Overhead Electric Line
	Transformer		Overhead Traffic Line
	Gas Marker		Metal End Section
	Brace Pole		Plastic End Section
			Approximate Location Of Field Tie

EROSION CONTROL NOTES

- LAND ALTERATION WHICH STRIPS THE LAND OF VEGETATION, INCLUDING REGRADING, SHALL BE DONE IN A WAY THAT WILL MINIMIZE EROSION.
- CONTRACTOR SHALL COMPLY WITH ALL STATE AND LOCAL ORDINANCES THAT APPLY.
- THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE.
- ADDITIONAL EROSION AND SEDIMENT CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY ON SITE INSPECTION.
- SEDIMENT LADEN WATER SHALL BE DETAINED BY EROSION CONTROL PRACTICES AS NEEDED TO MINIMIZE SEDIMENTATION IN THE RECEIVING STREAM. NO STORM WATER SHALL BE DISCHARGED FROM THE SITE IN A MANNER THAT CAUSES EROSION AT THE POINT OF DISCHARGE.
- WASTE AND UNUSED BUILDING MATERIALS SHALL NOT BE ALLOWED TO BE CARRIED FROM THE SITE BY STORM WATER RUNOFF. PROPER DISPOSAL OF ALL WASTE AND UNUSED BUILDING MATERIALS IS REQUIRED.
- SEDIMENT BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS SHALL BE MINIMIZED. CLEARING OF ACCUMULATED SEDIMENT SHALL NOT INCLUDE FLUSHING WITH WATER. CLEARED SEDIMENT SHALL BE RETURNED TO THE SITE FOR DISPOSAL.
- SOIL WHICH HAS ACCUMULATED NEXT TO EROSION CONTROL DEVICES SHALL BE COLLECTED AND RE-DISTRIBUTED ON SITE AFTER EACH RAINFALL EVENT, AND AT LEAST ONCE A WEEK.
- IF INSTALLATION OF STORM DRAINAGE SYSTEM SHOULD BE INTERRUPTED BY WEATHER OR NIGHTFALL, THE PIPE ENDS SHALL BE COVERED WITH FILTER FABRIC.
- ALL EXISTING STRUCTURES, FENCING, TREES AND ETC., WITHIN CONSTRUCTION AREA SHALL BE REMOVED AND DISPOSED OF OFF SITE. BURNING IS NOT ALLOWED ON SITE.
- THIS LOT LIES WITHIN FLOOD HAZARD ZONE AE AS SCALED FROM THE PRELIMINARY FLOOD INSURANCE RATE MAP (FIRM) FOR HAMILTON COUNTY, INDIANA, PANEL NUMBER 18057 C 01616.
- SCHEDULE OF EARTHWORK ACTIVITIES:
 - THE DURATION OF TIME WHICH AN AREA REMAINS EXPOSED SHALL BE KEPT TO A PRACTICAL MINIMUM. THE AREA SHALL BE STABILIZED AS SOON AS POSSIBLE. TEMPORARY VEGETATION OR MULCHING SHALL BE USED TO PROTECT EXPOSED AREAS IF PERMANENT VEGETATION CANNOT BE SEEDING WITHIN 14 DAYS OR ACTIVITY CEASES FOR MORE THAN 21 DAYS OR AS DIRECTED BY THE ENGINEER.
 - TOPSOIL REPLACEMENT SHALL TAKE PLACE FROM MARCH 1 TO OCTOBER 31. STOCKPILE TOPSOIL AT ALL OTHER TIMES OF THE YEAR. PERMANENT AND FINAL VEGETATION AND STRUCTURAL EROSION CONTROL DEVICES SHALL BE INSTALLED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING OR AS SOON AS POSSIBLE.

ESTIMATED EARTHWORK
 CUT: 8 CYD
 FILL: 700 CYD

BENCH INFORMATION
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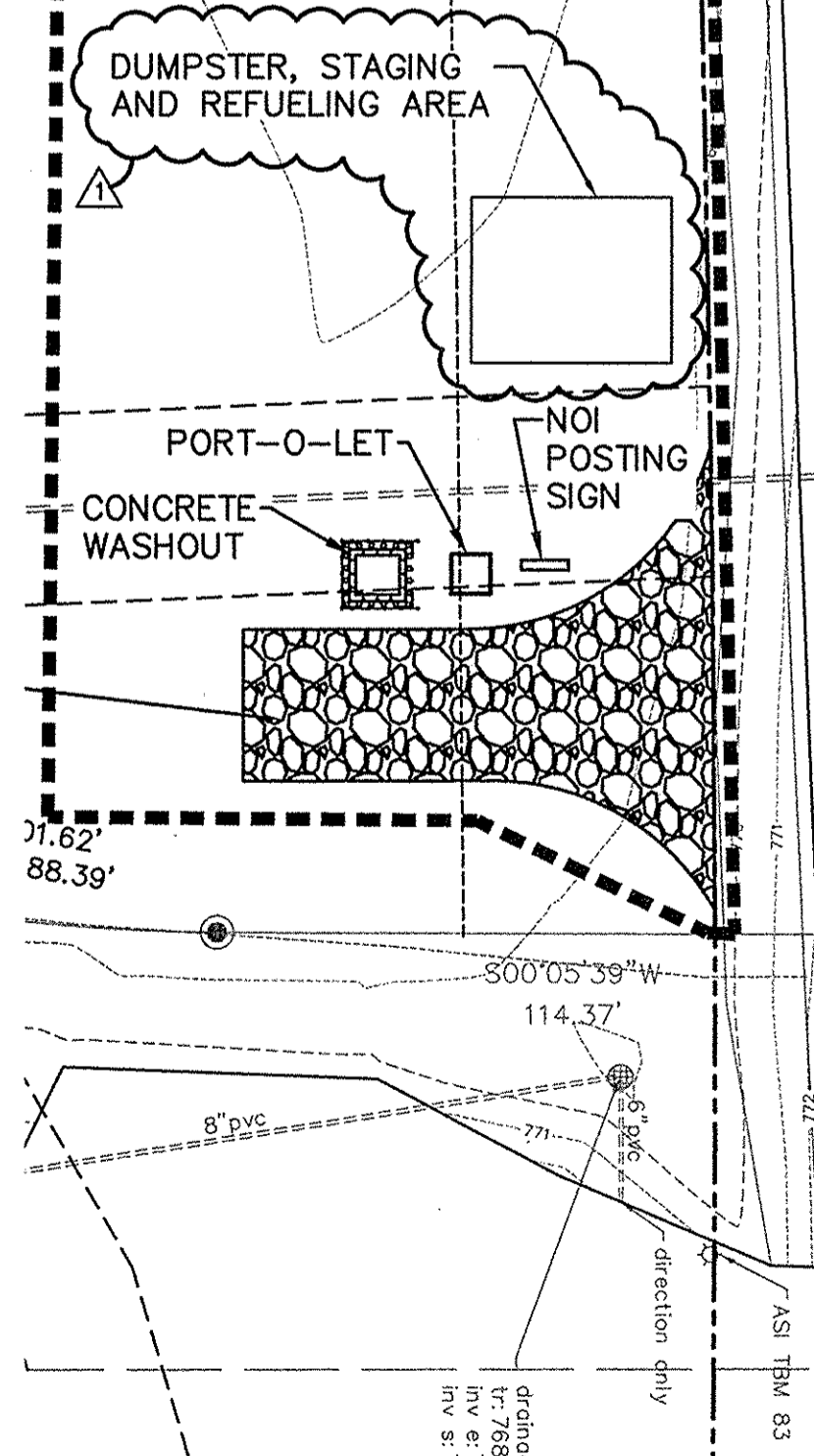
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 1-800-382-5544
 CALL TOLL FREE
 - INDIANA UNDERGROUND -



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 Entry Date: Feb 2016
 Entered By: SLM

EROSION CONTROL PAN

PROJECT: ELWOOD WILSON LEGAL DRAIN LIBRARY ARM RELOCATION NOBLESVILLE, INDIANA

PREPARED FOR: TERRY LEE CROSSING 8693 E. U.S. HIGHWAY 36 AVON, INDIANA

DATE:	2013.05.31
DRAWN BY:	JCS
CHK'D BY:	BNS
JOB NO.:	2012.00089

REVISIONS

SHEET NO.
C300
 OF

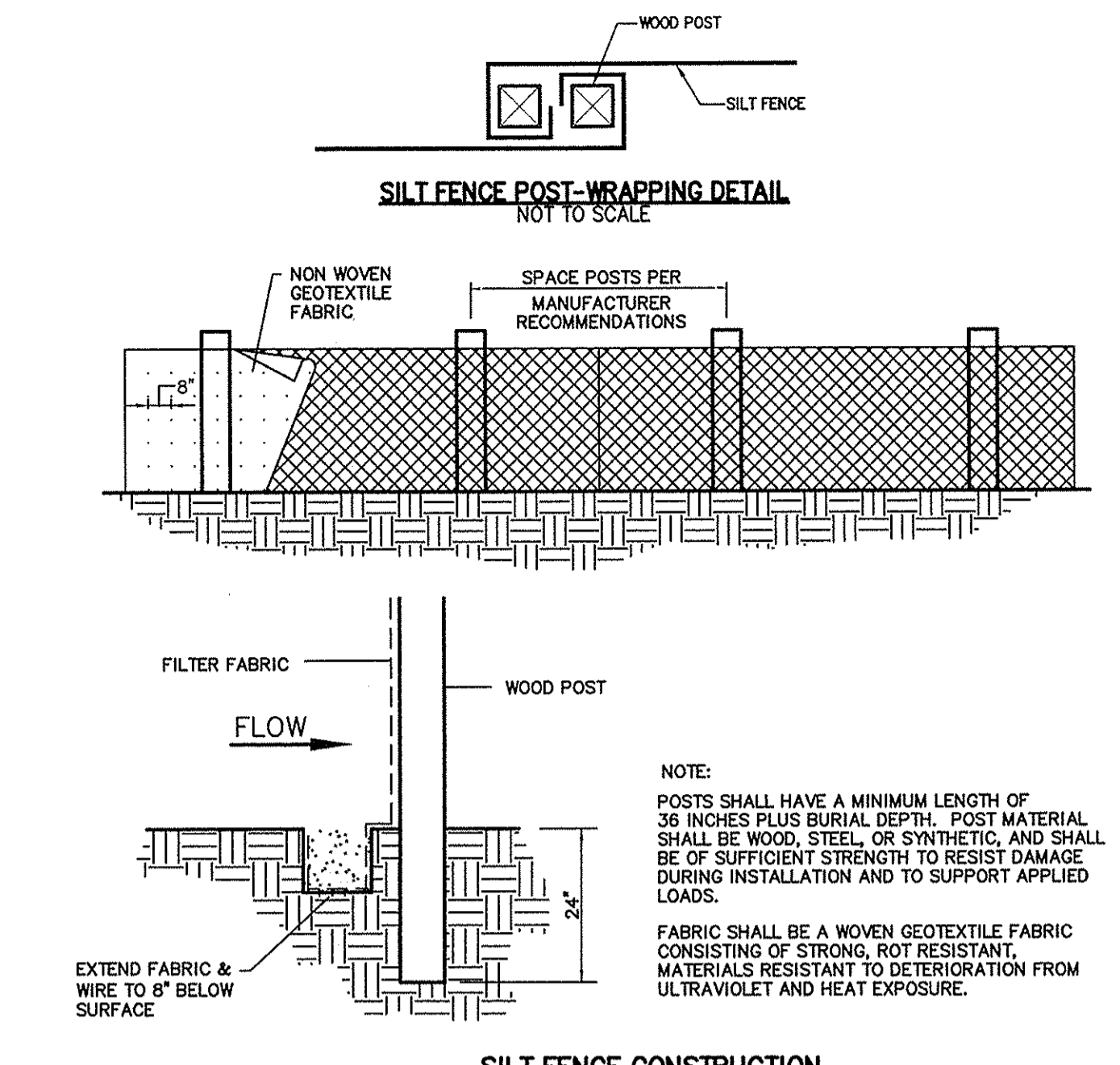
2012.00089.CE.02.C300.ECP.dwg

AMERICAN
STRUCTUREPOINT
 INC.

7260 SHADELAND STATION
 INDIANAPOLIS, IN 46226-3857
 TEL 317.547.5580 FAX 317.543.0270
 www.structurepoint.com

**APPROVAL PENDING
 NOT FOR CONSTRUCTION**

CLASSIFIED BY



SILT FENCE POST-WRAPPING DETAIL
NOT TO SCALE

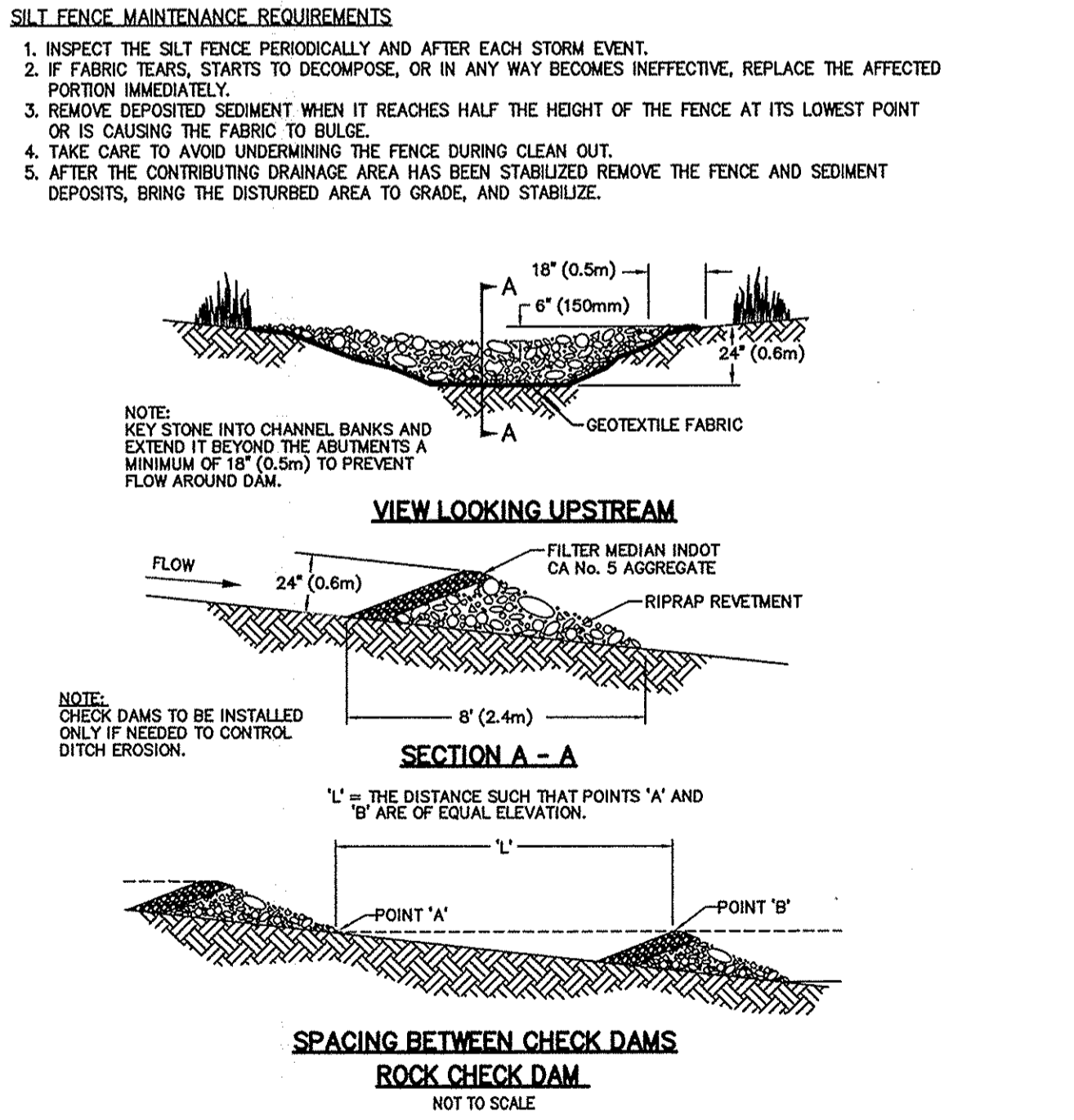
NOTE:
POSTS SHALL HAVE A MINIMUM LENGTH OF 36 INCHES PLUS BURIAL DEPTH. POST MATERIAL SHALL BE WOOD, STEEL, OR SYNTHETIC, AND SHALL BE OF SUFFICIENT STRENGTH TO RESIST DAMAGE DURING INSTALLATION AND TO SUPPORT APPLIED LOADS.

FABRIC SHALL BE A WOVEN GEOTEXTILE FABRIC CONSISTING OF STRONG, ROT RESISTANT MATERIALS RESISTANT TO DEGRADATION FROM ULTRAVIOLET AND HEAT EXPOSURE.

SILT FENCE CONSTRUCTION
NOT TO SCALE

- #### SILT FENCE INSTALLATION REQUIREMENTS
- ##### SITE PREPARATION
1. PLAN FOR THE FENCE TO BE AT LEAST 10 FT. FROM THE TOE OF THE SLOPE TO PROVIDE A SEDIMENT STORAGE AREA.
 2. PROVIDE ACCESS TO THE AREA IF SEDIMENT CLEANOUT WILL BE NEEDED.
- ##### OUTLET CONSTRUCTION (OPTIONAL)
1. DETERMINE THE APPROPRIATE LOCATION FOR A REINFORCED, STABILIZED BYPASS FLOW OUTLET (UNLESS THE FENCE IS DESIGNED TO RETAIN ALL RUNOFF FROM A 2 YEAR FREQUENCY, 24 HR DURATION STORM EVENT)
 2. SET THE OUTLET ELEVATION SO THAT WATER DEPTH CANNOT EXCEED 12 TO 18 IN. AT THE LOWEST POINT ALONG THE FENCE LINE.
 3. LOCATE THE OUTLET WEIR SUPPORT POSTS NO MORE THAN 4 FT. APART, AND INSTALL A HORIZONTAL BRACE BETWEEN THEM (WEIR HEIGHT SHOULD BE NO MORE THAN 1 FT. DEEP, 5 IN. WIDE, AND 6 FT. LONG ON LEVEL GRADE).
 4. EXCAVATE THE FOUNDATION FOR THE OUTLET SPLASH PAD TO MINIMUMS OF 1 FT. AND WATER DEPTH NO MORE THAN 10 FT. ANYWHERE ELSE ALONG THE FENCE.
 5. FILL THE EXCAVATED FOUNDATION WITH 1200 CA NO. 1 STONE, BEING CAREFUL THAT THE FINISHED SURFACE BLEND WITH THE SURROUNDING AREA, ALLOWING NO OVERSILL.
 6. STABILIZE THE AREA AROUND THE PAD.
- ##### FENCE CONSTRUCTION
1. ALONG THE ENTIRE INTENDED FENCE LINE, DIG AN 8 IN. DEEP FLAT-BOTTOMED OR V-SHAPED TRENCH.
 2. ON THE DOWNSIDE SLOPE OF THE TRENCH, DRIVE THE WOOD OR STEEL SUPPORT POSTS AT LEAST 1 FT. INTO THE GROUND (THE DEEPER THE BETTER), SPACING THEM NO MORE THAN 8 FT. APART IF THE FENCE IS SUPPORTED BY WIRE OR 6 FT. IF EXTRA-STRENGTH FABRIC IS USED WITHOUT SUPPORT WIRE. ADJUST SPACING, IF NECESSARY, TO ENSURE THAT POSTS ARE SET AT THE LOW POINTS ALONG THE FENCE LINE. (NOTE: IF THE FENCE HAS PRE-ATTACHED POSTS OR STAPLES, DRIVE THEM DEEP ENOUGH SO THE FABRIC IS SATISFACTORILY IN THE TRENCH AS DESCRIBED IN STEP 6).
 3. FASTEN SUPPORT WIRE FENCE (IF THE MANUFACTURER RECOMMENDS ITS USE) TO THE UPSLOPE SIDE OF THE POSTS, EXTENDING IT 8 IN. INTO THE TRENCH.
 4. RUN A CONTINUOUS LENGTH OF GEOTEXTILE FABRIC IN FRONT (UPSLOPE) OF THE SUPPORT WIRE AND POSTS, AVOIDING JOINTS, PARTICULARLY AT LOW POINTS IN THE FENCE LINE.
 5. IF A JOINT IS NECESSARY, NAIL THE OVERLAP TO THE NEAREST POST WITH LATH.
 6. PLACE THE BOTTOM 1 FT. OF FABRIC IN THE 8 IN. DEEP TRENCH, EXTENDING THE REMAINING 4 IN. TOWARD THE UPSLOPE SIDE.
 7. BACKFILL THE TRENCH WITH COMPACTED EARTH OR GRAVEL.
- NOTE: IF USING A PRE-PACKED COMMERCIAL SILT FENCE RATHER THAN CONSTRUCTING ONE, FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.

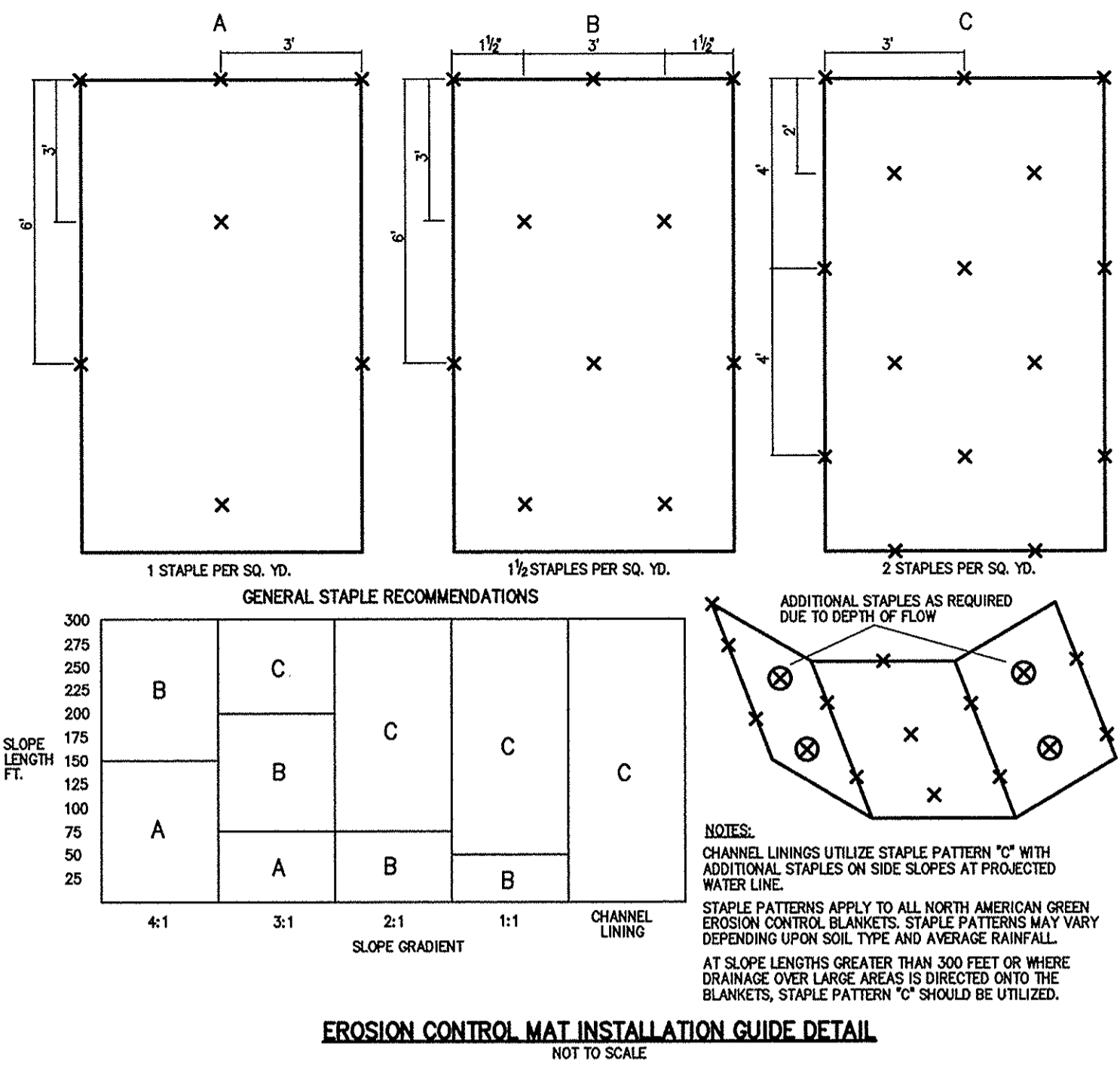
- #### SILT FENCE MAINTENANCE REQUIREMENTS
1. INSPECT THE SILT FENCE PERIODICALLY AND AFTER EACH STORM EVENT.
 2. IF FABRIC TEARS, STARTS TO DECOMPOSE, OR IN ANY WAY BECOMES INEFFECTIVE, REPLACE THE AFFECTED PORTION IMMEDIATELY.
 3. REMOVE DEPOSITED SEDIMENT WHEN IT REACHES HALF THE HEIGHT OF THE FENCE AT ITS LOWEST POINT OR IS CAUSING THE FABRIC TO BULGE.
 4. TAKE CARE TO AVOID UNDERMINING THE FENCE DURING CLEAN OUT.
 5. AFTER THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED REMOVE THE FENCE AND SEDIMENT DEPOSITS, BRING THE DISTURBED AREA TO GRADE, AND STABILIZE.



SPACING BETWEEN CHECK DAMS
ROCK CHECK DAM
NOT TO SCALE

- #### ROCK CHECK DAM INSTALLATION REQUIREMENTS
1. EXCAVATE A CUTOFF TRENCH INTO THE DITCH BANKS, AND EXTEND IT A MINIMUM OF 18 IN. BEYOND THE ABUTMENTS.
 2. PLACE THE ROCK IN THE CUTOFF TRENCH AND CHANNEL TO THE LINES AND DIMENSIONS SHOWN IN DETAIL, CENTER MAXIMUM OF 2 FT. HIGH YET 9 IN. BELOW WHERE THE DAM ABUTS THE CHANNEL BANKS.
 3. EXTEND THE ROCK AT LEAST 18 IN. BEYOND THE CHANNEL BANKS TO KEEP OVERFLOW WATER FROM UNDERCUTTING THE DAM AS IT RE-ENTERS THE CHANNEL.
 4. INSTALL AS MANY DAMS AS NECESSARY TO SATISFY THE SPACING REQUIREMENT SHOWN IN DETAIL.
 5. STABILIZE THE CHANNEL ABOVE THE UPPERMOST DAM.
 6. RECOGNIZING THAT WATER WILL FLOW OVER AND AROUND THE LOWERMOST DAM, PROTECT THE CHANNEL DOWNSTREAM FROM IT WITH AN EROSION-RESISTANT LINING FOR A DISTANCE OF 6 FT. UNLESS THE CHANNEL IS PROTECTED THROUGH OTHER MEANS.

- #### ROCK CHECK DAM MAINTENANCE REQUIREMENTS
1. INSPECT CHECK DAMS AND THE CHANNEL AFTER EACH STORM EVENT, AND REPAIR ANY DAMAGE IMMEDIATELY.
 2. IF SIGNIFICANT EROSION OCCURS BETWEEN DAMS, INSTALL A RIPRAP LINER IN THAT PORTION OF THE CHANNEL.
 3. REMOVE SEDIMENT ACCUMULATED BEHIND EACH DAM AS NEEDED TO MAINTAIN CHANNEL CAPACITY, TO ALLOW DRAINAGE THROUGH THE DAM, AND TO PREVENT LARGE FLOWS FROM DISPLACING SEDIMENT.
 4. ADD ROCK TO THE DAMS AS NEEDED TO MAINTAIN DESIGN HEIGHT AND CROSS SECTION.
 5. WHEN THE DAMS ARE NO LONGER NEEDED, REMOVE THE ROCK AND STABILIZE CHANNEL, USING AN EROSION-RESISTANT LINING IF NECESSARY.

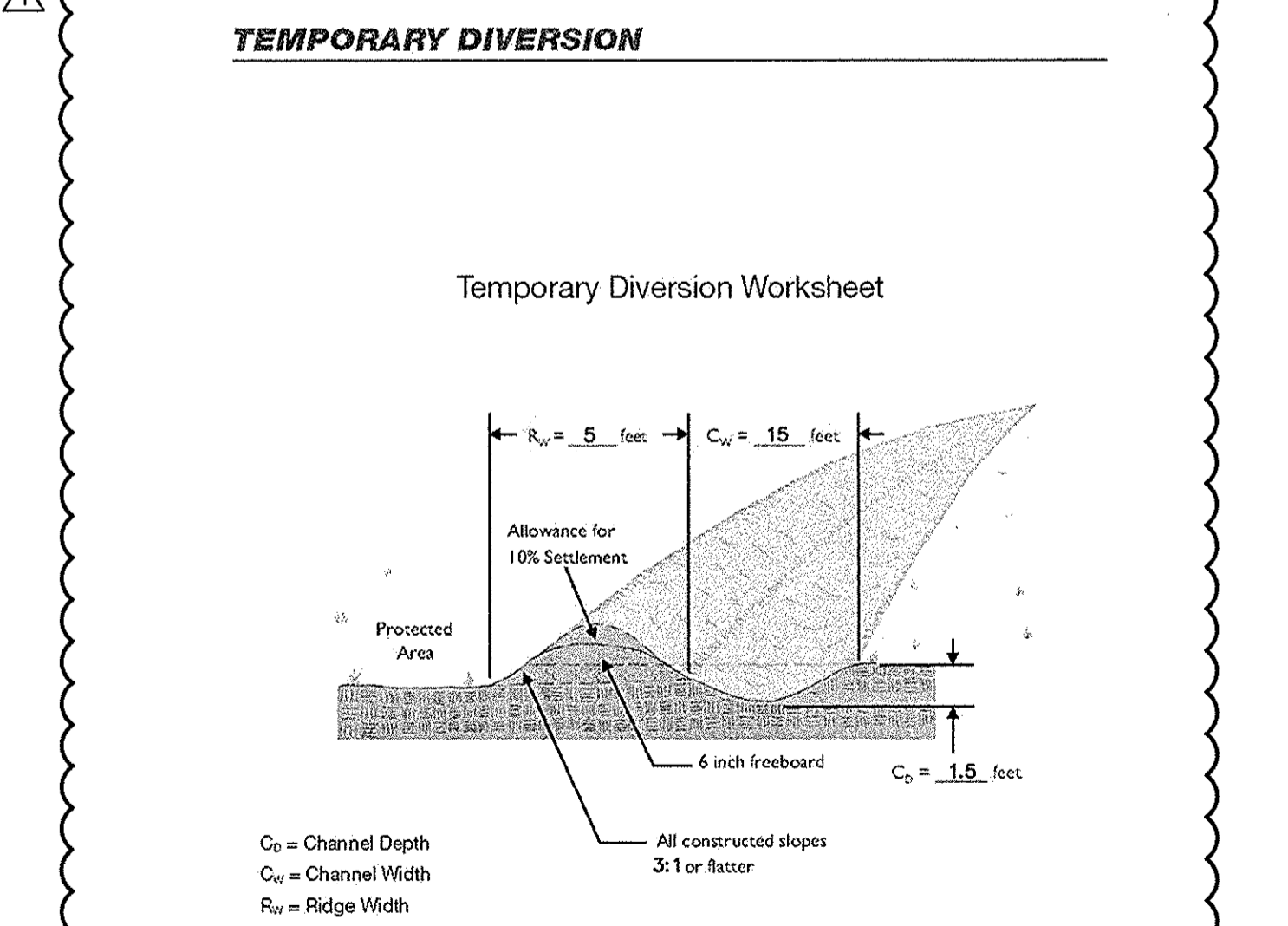


- #### EROSION CONTROL MAT INSTALLATION GUIDE DETAIL
- NOT TO SCALE
- ##### EROSION CONTROL BLANKET (SURFACE APPLIED) INSTALLATION REQUIREMENTS
1. SELECT THE TYPE AND WEIGHT OF EROSION CONTROL BLANKET TO FIT THE SITE CONDITIONS (E.G. SLOPE, CHANNEL, FLOW VELOCITY).
 2. INSTALL ANY PRACTICES NEEDED TO CONTROL EROSION AND RUNOFF, SUCH AS TEMPORARY OR PERMANENT DIVERSION, SEDIMENT BASIN OR TRAP, SILT FENCE, AND STRAW BALE DAM.
 3. GRADE THE SITE AS SPECIFIED IN THE CONSTRUCTION PLAN.
 4. ADD TOPSOIL WHERE APPROPRIATE.
 5. PREPARE THE SEEDBED, FERTILIZE (AND LIME, IF NEEDED), AND SEED THE AREA IMMEDIATELY AFTER GRADING.
 6. FOLLOWING MANUFACTURER'S DIRECTIONS, LAY THE BLANKETS ON THE SEEDBED AREA SUCH THAT THEY ARE IN CONTINUOUS CONTACT WITH THE SOIL AND THAT THE UPSLOPE OR UPSTREAM ONES OVERLAP THE LOWER ONES BY AT LEAST 8 IN.
 7. TUCK THE UPPERMOST EDGE OF THE UPPER BLANKETS INTO A CHECK SLOT (SOFT TRENCH), BACKFILL WITH SOIL, AND TAMP DOWN.
 8. ANCHOR THE BLANKETS AS SPECIFIED BY THE MANUFACTURER. THIS TYPICALLY INVOLVES DRIVING 6-8 IN. METAL STAPLES INTO THE GROUND IN A PATTERN DETERMINED BY THE SITE CONDITIONS.
- ##### EROSION CONTROL BLANKET (SURFACE APPLIED) MAINTENANCE REQUIREMENTS
1. DURING VEGETATIVE ESTABLISHMENT INSPECT AFTER STORM EVENTS FOR ANY EROSION BELOW THE BLANKET.
 2. IF ANY AREA SHOWS EROSION PULL BACK THAT PORTION OF THE BLANKET COVERING IT, ADD SOIL, RE-SEED THE AREA, AND RE-LAY AND STAPLE THE BLANKET.
 3. AFTER VEGETATIVE ESTABLISHMENT CHECK THE TREATED AREA PERIODICALLY.

SEASONAL SOIL PROTECTION CHART

STABILIZATION PRACTICE	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A	A	A	A	A	A	A	A	A	A
DORMANT SEEDING			B	B	B	B	B	B	B	B	B	B
TEMPORARY SEEDING			C	D	D	D	D	D	D	D	D	D

A = KENTUCKY BLUEGRASS 100 LBS./ACRE; CREEPING RED FESCUE 100 LBS./ACRE; HYDROSEED
 B = KENTUCKY BLUEGRASS 120 LBS./ACRE; CREEPING RED FESCUE 120 LBS./ACRE; HYDROSEED
 C = SPRING OATS 3 BUSHELS/ACRE
 D = WHEAT OR RYE 2 BUSHELS/ACRE
 E = ANNUAL RYEGRASS 40 LBS./ACRE (1 LB./1000 SQ. FT.)
 // = IRRIGATION NEEDED DURING JUNE, JULY, AUGUST AND/OR SEPTEMBER



October 2007 Chapter 7 77

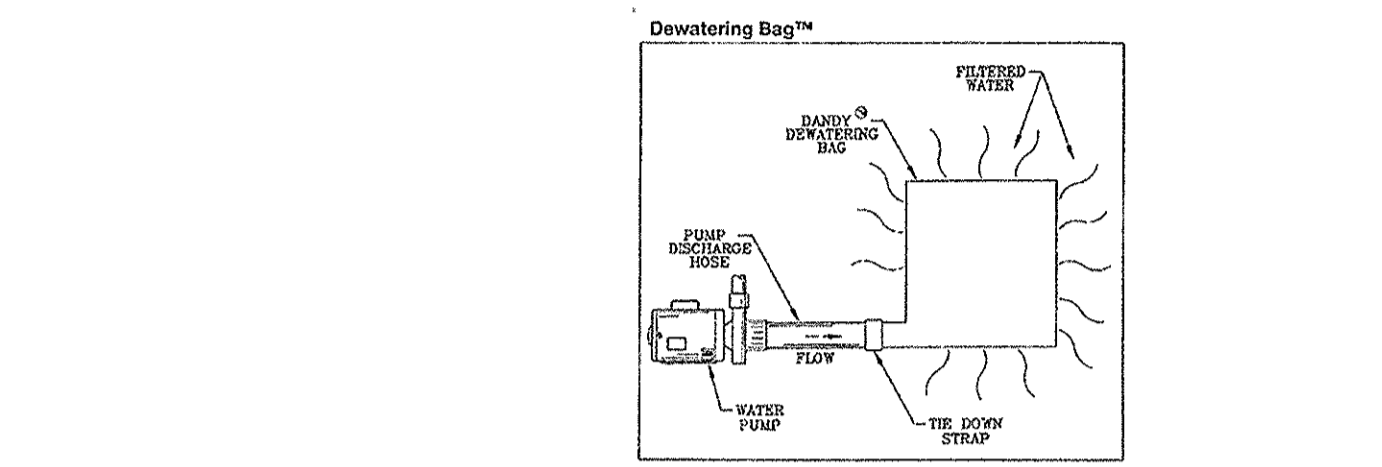
Technical Data **MIRAFI** Innovative Geotextiles

product **Dandy Dewatering Bag™**
Dandy Solutions for Stormwater Sediment Control

Geotextile Technical Data

TEST METHOD	TEST UNIT	MIN. VALUE	TYPICAL VALUE	MIRAFI P#
Grab Tensile Strength (MD & CD)	ASTM D 4832	300 (lbs)	1,000 (lbs) / 0.90 (kN)	0.9.000
Grab Tensile Elongation	ASTM D 4832	%	24 ± 10	50
Puncture Strength	ASTM D 4832	100 (lbs)	0.44 (100)	0.50 (150)
Machine Sewn Strength	ASTM D 3715	100 (lbs)	300 (400)	300 (500)
Traverse Tear Strength (MD & CD)	ASTM D 4832	24 (lbs)	0.51 (1.15) / 0.53 (75)	0.50 (50)
Percent Open Area (POA)	COE 28135-86	%	19	NA
Equivalent Opening Size (OES)	ASTM D 4951	mm (US SIEVE)	0.425 (60)	0.60 (100)
Permeability	ASTM D 4481	sec	2.14	1.2
Permeability	ASTM D 4487	cm/sec	0.142	0.31
Water Flow Rate	ASTM D 4487	l/min	500 (1.48)	390 (56)
Ultraviolet Resistance	ASTM D 4355	%	95	70
Color			Black & Orange	Black

The color orange is a trademark of Dandy Products, Inc.



warranty: MIRAFI warrants the products made by it for the period specified in the instructions for the products. MIRAFI does not warrant for other uses or conditions of use. MIRAFI is not responsible for the use of the products for any purpose other than that intended. MIRAFI is not responsible for the use of the products for any purpose other than that intended. MIRAFI is not responsible for the use of the products for any purpose other than that intended.

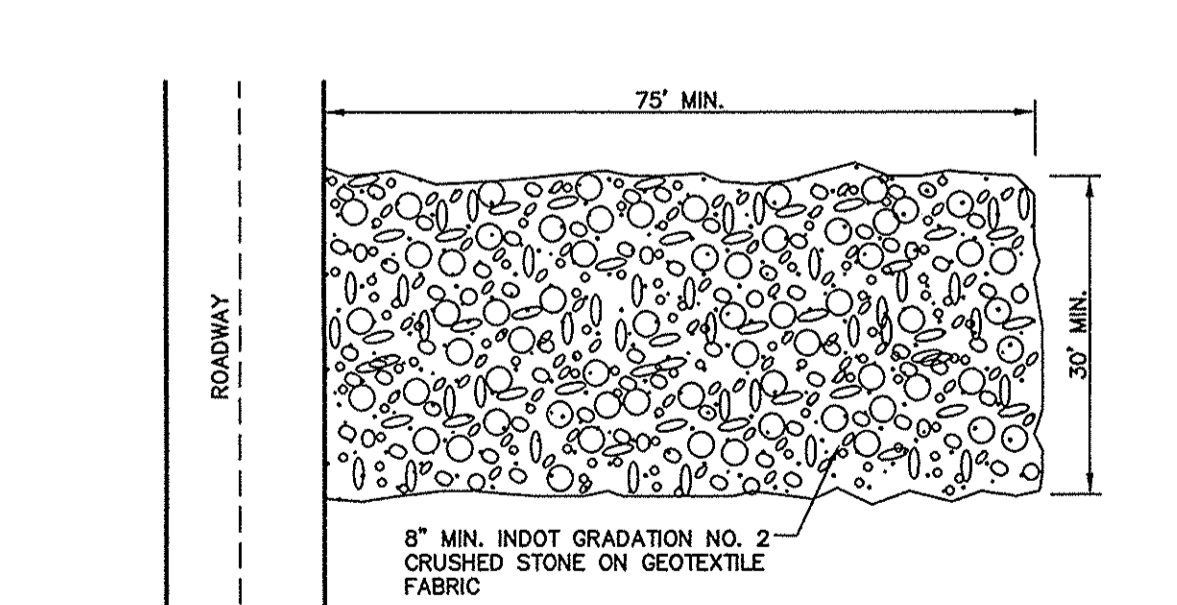
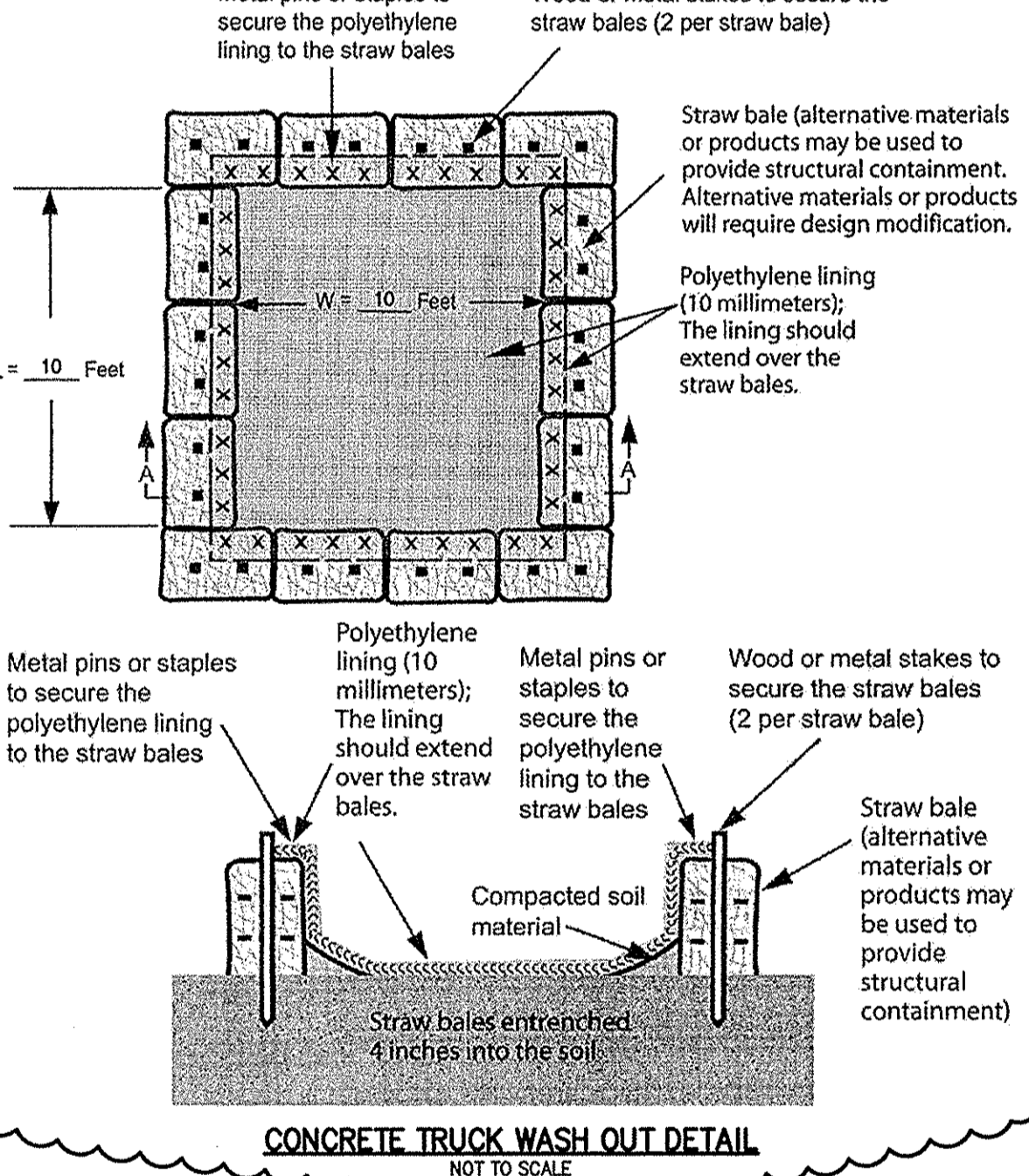
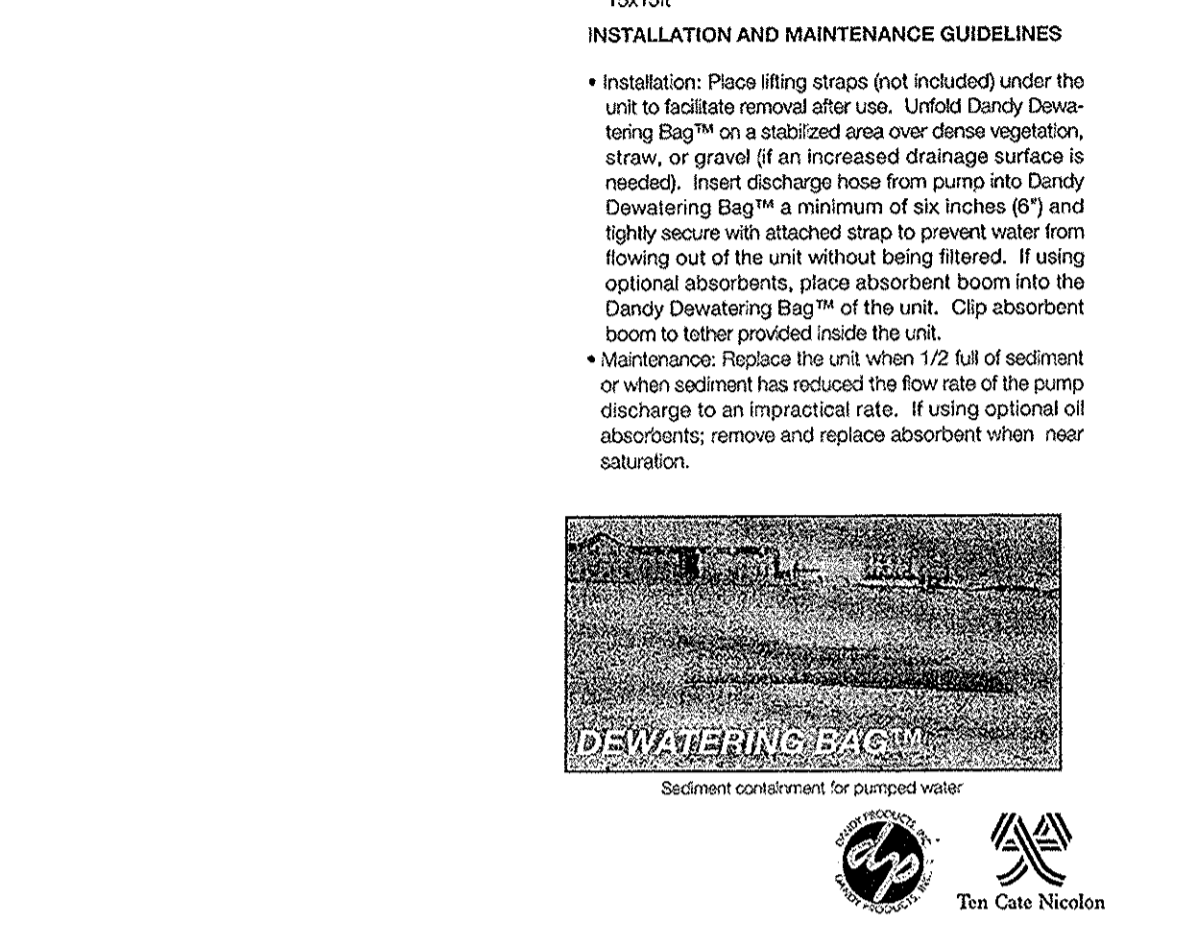
www.mirafi.com

THE GATE NICHOLSON

Product Description **MIRAFI** Innovative Geotextiles

product **Dandy Dewatering Bag™**
Dandy Solutions for Stormwater Sediment Control

- #### DANDY DEWATERING BAG™
- The Dandy Dewatering Bag™ is designed to control sediment discharge in dewatering applications where water is being pumped. When the pumped water reaches the Dandy Dewatering Bag™, the suspended solids are allowed to settle out of the slow flow and are captured by the bag.
- #### FEATURES AND BENEFITS
- Easily installs onto discharge hose
 - Easier and more convenient to use than sediment traps or other alternatives
 - Available with optional oil absorbents
 - Fabricated from a Mirafi® geotextile
 - Available in 4 standard sizes: 3x3ft, 6x6ft, 10x15ft, 15x15ft
- #### INSTALLATION AND MAINTENANCE GUIDELINES
- Installation: Place filling straps (not included) under the unit to facilitate removal after use. Linked Dandy Dewatering Bag™ on a stabilized area over dense vegetation, straw, or gravel (if an increased drainage surface is needed). Insert discharge hose from pump into Dandy Dewatering Bag™ a minimum of six inches (6") and lightly secure with attached strap to prevent water from flowing out of the unit without being filtered. If using optional absorbents, place absorbent boom into the Dandy Dewatering Bag™ of the unit. Clip absorbent boom to tether provided inside the unit.
 - Maintenance: Replace the unit when 1/2 full of sediment or when sediment has reduced the flow rate of the pump discharge to an impractical rate. If using optional oil absorbents, remove and replace absorbent when near saturation.



- #### TEMPORARY GRAVEL CONSTRUCTION ENTRANCE INSTALLATION REQUIREMENTS:
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER COLLECTIONABLE MATERIAL FROM THE FOUNDATION AREA, AND GRADE AND CROWN FOR POSITIVE DRAINAGE.
 3. IF SLOPE TOWARDS THE ROAD EXCEEDS 2%, CONSTRUCT A 6-8 IN. HIGH WATER BAR (RIDES) WITH 3:1 SIDE SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FT. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD.
 4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
 5. IF NET CONDITIONS ARE ANTICIPATED, PLACE GEOTEXTILE FABRIC ON THE GRADED FOUNDATION TO IMPROVE STABILITY.
 6. PLACE STONE TO DIMENSION AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
 7. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.

- #### TEMPORARY GRAVEL CONSTRUCTION ENTRANCE MAINTENANCE REQUIREMENTS:
1. INSPECT ENTRANCE PAD AND SEDIMENT AREA WEEKLY AND AFTER STORM EVENTS OF HEAVY USE.
 2. RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 3. TOP DRESS WITH CLEAN STONE AS NEEDED.
 4. IMMEDIATELY REMOVE MUD AND SEDIMENT TRACKED OR WASHED ONTO PUBLIC ROADS BY BRUSHING OR SWEEPING. FLUSHING SHOULD ONLY BE USED IF THE WATER IS CONVEYED INTO A SEDIMENT ROCK TRAP OR BASIN.
 5. REPAIR ANY BROKEN PAVEMENT IMMEDIATELY.

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EROSION CONTROL DETAILS
PREPARED FOR:
TERRY LEE CROSSING
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AVON, INDIANA

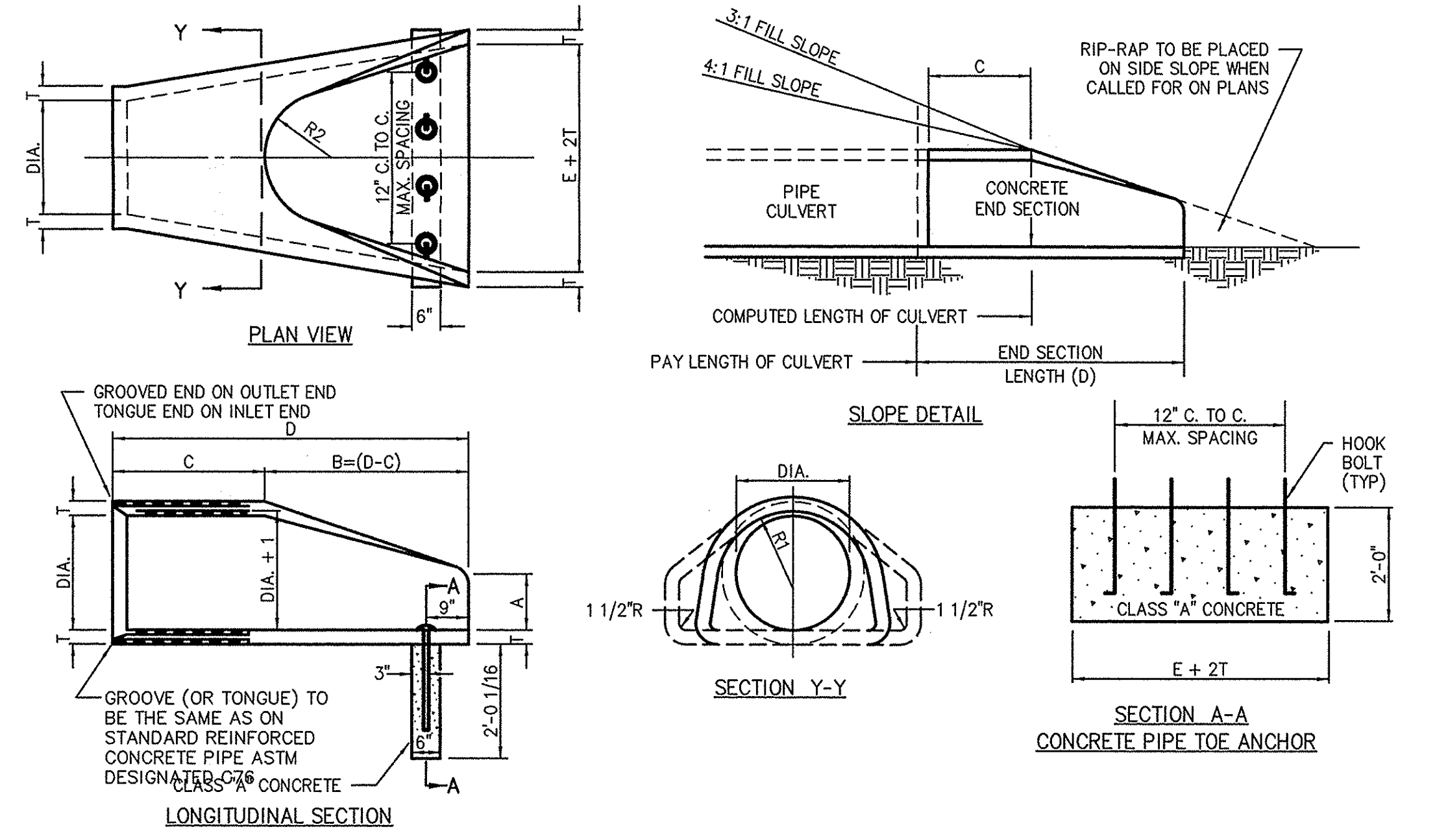
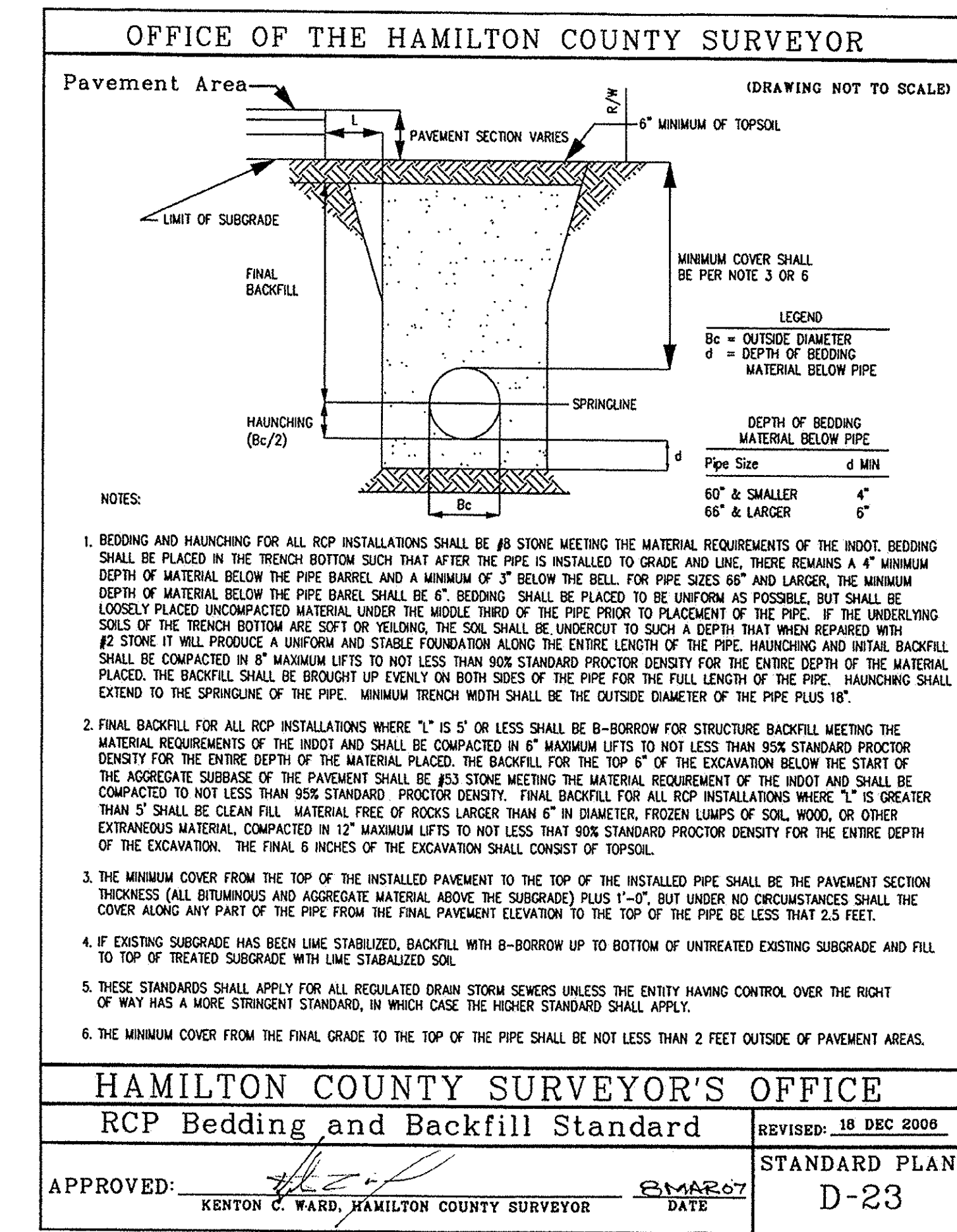
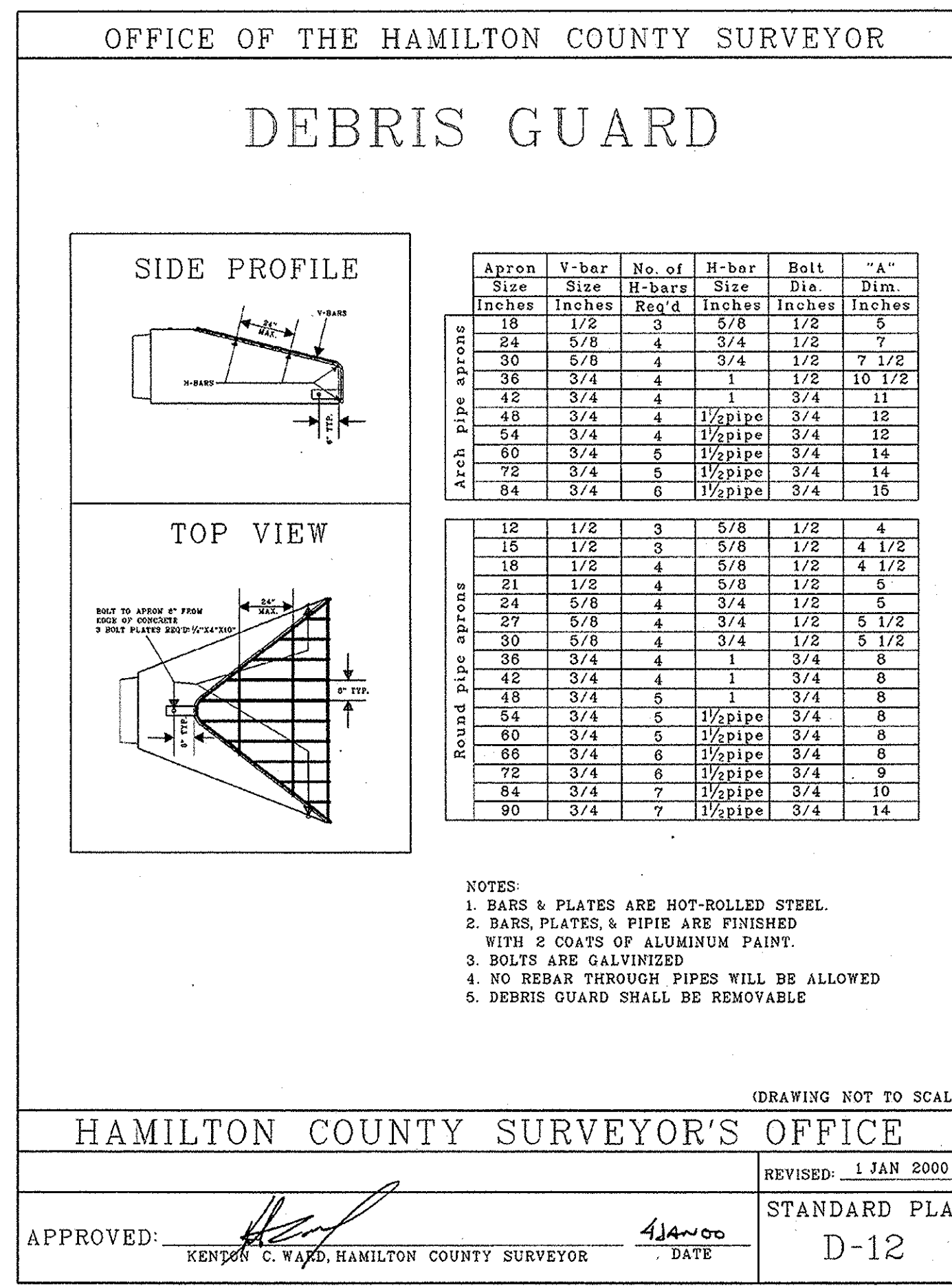
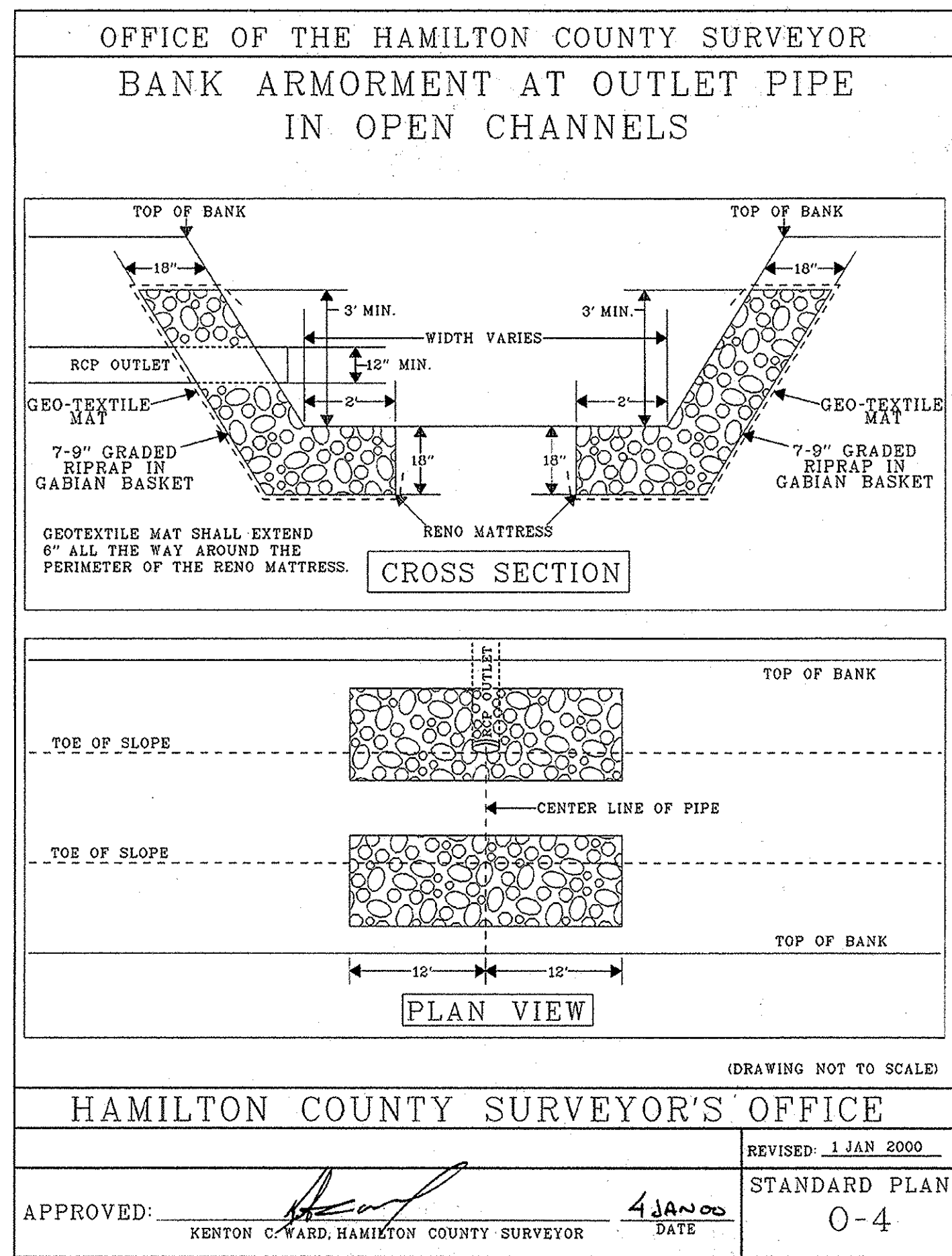
PROJECT:
ELWOOD WILSON LEGAL DRAIN
LIBRARY ARM RELOCATION
NOBLESVILLE, INDIANA

DATE: 2013.05.31
DRAWN BY: JCS
CHK'D BY: BNS
JOB NO. 2012.00089

REVISIONS

SHEET NO.
C301
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This information was gathered for input into the Hamilton County Geographic Information System (GIS). This document is considered an official record of the GIS.
Entry Date: Feb 2016
Entered By: slm



CONCRETE IN THESE END SECTIONS SHALL BE THE SAME GRADE AND STRENGTH AS SPECIFIED FOR REINFORCED CONCRETE PIPE, A.S.T.M. DESIGNATION C-76 (as set out in standard specifications.)

REINFORCEMENT IN THE "C" PORTION SHALL BE THE SAME AS SPECIFIED FOR REINFORCED CONCRETE, A.S.T.M. DESIGNATION C-76 FOR THE SIZE OF CONNECTING PIPE. (as set out in standard specifications.)

REINFORCEMENT IN THE "B" PORTION SHALL HAVE A CROSS SECTIONAL AREA EQUAL TO THAT OF ONE LAYER OF STEEL IN THE "C" PORTION.

THE END OF THE PIPE CULVERT SHALL BE PLACED IN THE CONCRETE END SECTION SO THAT THE FLOW LINES ARE FLUSH. THE JOINT SHALL BE COMPLETELY FILLED WITH MORTAR.

IN 3:1 OR 4:1 FILL SLOPE, CHANGE TO THE SLOPE OF THE END SECTION IN A SMOOTH, PLEASING TRANSITION APPROXIMATELY 10'-0" IN LENGTH.

VARIATIONS IN DIMENSIONS - THE THICKNESS OR THE CONCRETE, THE POSITION OF STEEL, AND THE INTERNAL DIAMETER OF THE PIPE SHALL CONFORM WITH THE VARIATIONS IN DIMENSIONS AS PROVIDED IN THE SPECIFICATIONS FOR REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, A.S.T.M. DESIGNATION C-76.

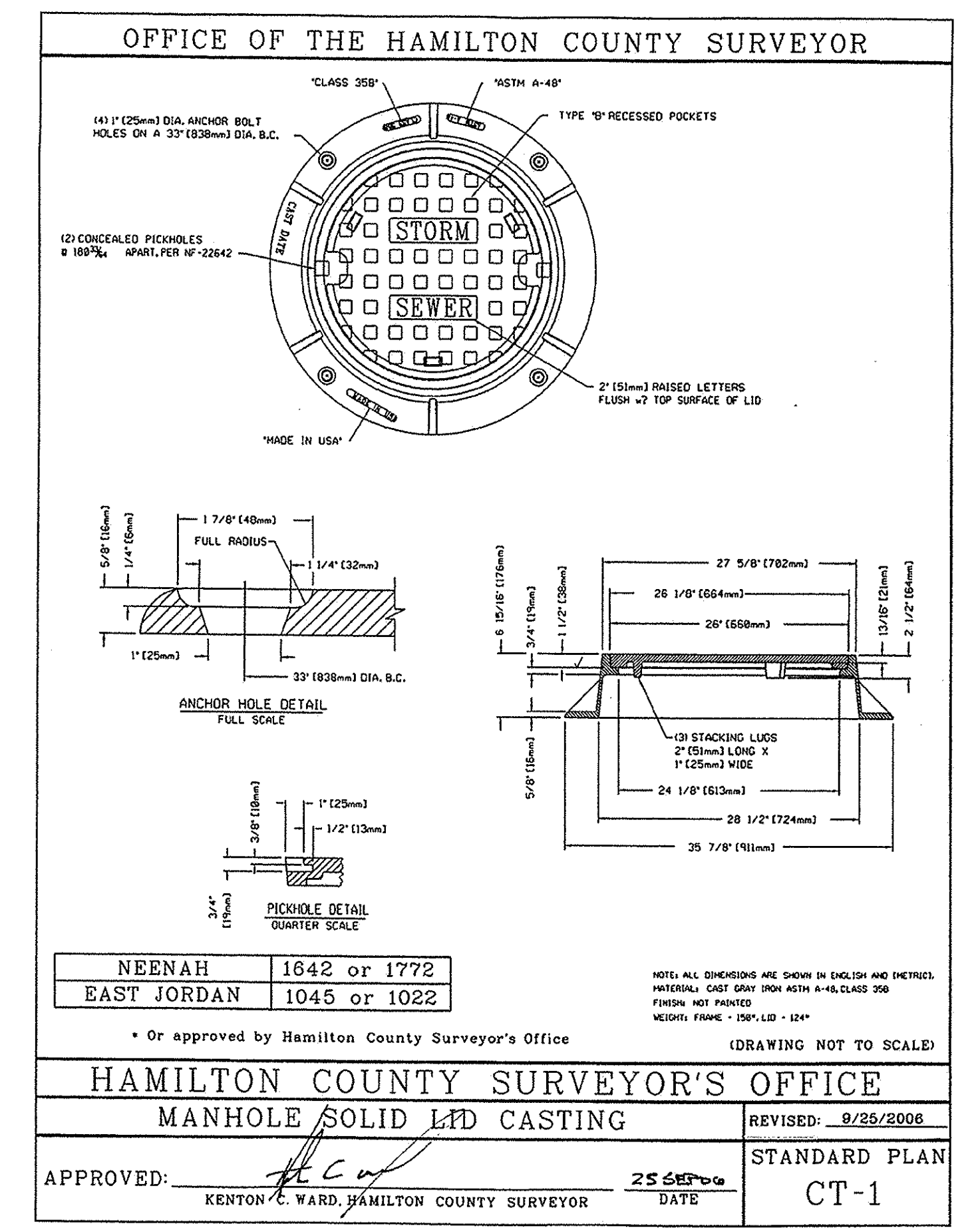
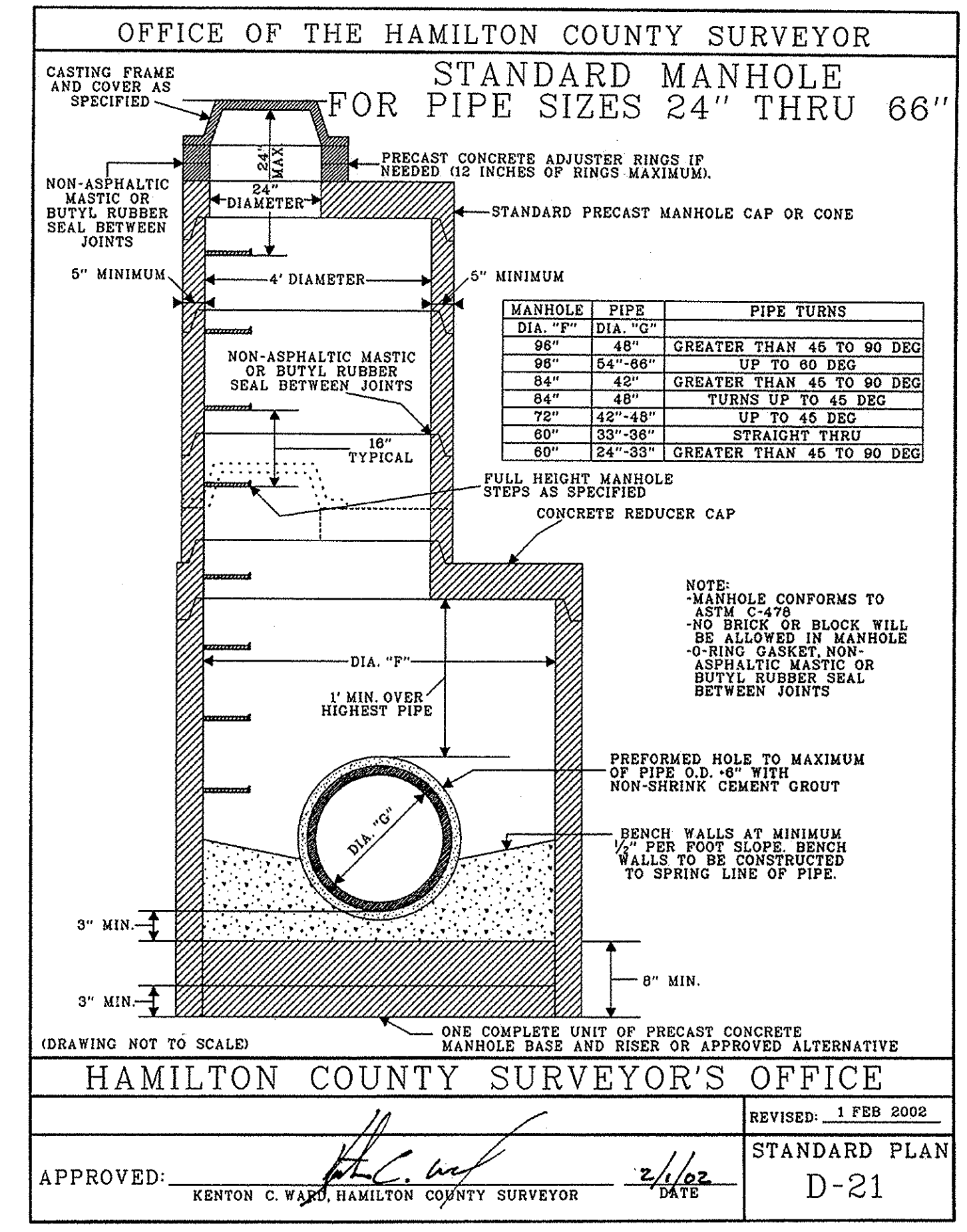
WHERE VITRIFIED CLAY CULVERT OR CAST IRON CULVERT PIPE IS USED, A "PIPE END SECTION" COMPARABLE TO THAT AS SHOWN FOR METAL OR CONCRETE SHALL BE FURNISHED AND SHALL BE AS APPROVED BY THE ENGINEER. EXCEPT IN AREAS OF ACID OR MINE WATER, THEN THE USE OF METAL END SECTION IS PROHIBITED.

CONCRETE PIPE TOE ANCHORS SHALL BE REQUIRED ON ALL CONCRETE PIPE END SECTIONS.

DIA.	T (MIN.)	A*	C*	D*	E*	K	R1	R2	APPROX. WEIGHT
12"	2"	5"	4'-3"	6'-2"	2'-0"	1.3	10 1/8"	9"	800
15"	2 1/4"	7"	4'-0"	6'-3"	2'-6"	1.5	12 1/2"	11"	1100
18"	2 1/2"	11"	4'-1"	6'-2"	3'-0"	1.8	15 1/2"	12"	1300
21"	2 3/4"	11"	3'-6"	6'-3"	3'-6"	2.1	16 1/8"	13"	1500
24"	3"	12"	2'-8"	6'-3"	4'-0"	2.3	16 3/16"	14"	1800
27"	3 1/4"	13"	2'-5"	6'-3"	4'-6"	2.6	18 3/16"	14 1/2"	2100
30"	3 1/2"	14"	1'-10"	6'-3"	5'-0"	2.9	18 1/2"	15"	2400
33"	3 3/4"	15"	3'-6"	8'-3"	5'-6"	3.1	23 3/4"	17 1/2"	4100
36"	4"	17"	3'-1"	8'-3"	6'-0"	3.4	24 3/16"	20"	4200

* TOLERANCE ±1"

PRECAST CONCRETE END SECTION
NOT TO SCALE



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REVISIONS

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PRINT DATE: 6/5/13 PLOT SCALE: 1:2.5849 EDIT DATE: 5/31/13 - 10:45 AM EDITED BY: P00TTERY DRAWING FILE: P:\2012\00089\DRAWINGS\CIVIL\PLANS SET\LIBRARY ARM_02012.00089.CE.02.C400.SD.DWG