



## ADDENDUM #2

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To: Known Qualified Firms  
From: Porter Co. Dept. of Development & Storm Water Management  
Date: March 26, 2021  
Subject: Sunnybrooke Subdivision – Storm Water Management System Improvements  
Construction Services

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The attention of all known qualified firms are called to the following Addendum.

This Addendum, designated as Addendum #2, is hereby included in and made a part of the bidding documents, whether or not attached thereto. Except as modified by this Addendum, all requirements of the bidding documents shall remain in full force and effect.

Firms shall acknowledge the receipt of this Addendum #2 on his or her bid form.

### **Clarifications & Modifications**

The following clarifications and/or modifications to the bidding documents are being provided or are being made by the Department in response to questions posed and/or as determined necessary by the Department and are hereby included in and made a part of the bidding documents.

### **PRE-BID MEETING MINUTES & SIGN-IN SHEET**

1. The pre-bid meeting minutes and sign-in sheet are attached to this Addendum. Please note that the meeting minutes may contain clarifications related to work items that should be should considered when preparing bids for this project.

### **UTILITY INVESTIGATION**

2. The Department has conducted an investigation of the utilities found on the project site.

Potholing was conducted to a depth of > 54" in an attempt to locate the gas main crossing CR 400 E along the south side of CR 1050 N. Such investigation encountered the gas main. It is a 2" steel gas main located along the alignment shown on the construction plans. Survey data was collected to establish the depth of the gas main. Such survey data has been added to the construction plans (see Item #4 below).

Potholing was also conducted to a depth of > 54" in an attempt to locate the telecommunications cable located along the west side of CR 400 E. Such investigations did not encounter the telecommunications cable. The Department believes that such cable was bored under both of the stream crossings and is located below the invert of the stream at both crossings, outside of potential conflict with the project.

As a result of the location of the 2" steel gas main, the elevation of the proposed storm sewer invert has been adjusted upward between storm sewer structures ST-03 and ST-04 to allow for the storm sewer to be installed above, and out of conflict with, the gas main (see Items #3 & #4 below).

In accordance with the contract documents, the contractor shall still conduct utility investigations at each of the locations indicated on the construction plans prior to the start of work to confirm the location and depth of the existing utilities at such locations.



### **BASIS OF BID FORM**

3. Basis of Bid Form

**The Basis of Bid Form has been revised** to account for the change in excavation and final backfill quantities resulting from the adjustment of the elevation of the proposed storm sewer invert between storm sewer structures ST-03 and ST-04. The revised Basis of Bid Form is attached in this Addendum #2. **Please submit such revised Basis of Bid Form with your bid.**

### **CONSTRUCTION PLANS/TECHNICAL SPECIFICATIONS**

4. Storm Sewer between ST-03 and ST-04

**The construction plans have been revised** to account for the adjustment of the elevation of the proposed storm sewer invert between storm sewer structures ST-03 and ST-04. Such adjustment has been made to allow for the storm sewer to be installed above, and out of conflict with, the existing 2" gas main crossing CR 400 E along the south side of CR 1050 N.

### **PUBLIC OPENING OF BIDS**

5. Public Opening of Bids

As stated in the bidding documents, bids will be opened at 10:00 a.m., or as soon thereafter as possible, on Tuesday, March 30, 2021, at a public opening of bids to be held at 10:00 a.m. local time at the Porter Co. Administration Center, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383. In accordance with the Department's COVID-19 Safety & Action Plan, the public opening of bids will also be conducted live via videoconference. All respondents, as well as members of the public, are welcome to attend and participate in the opening of bids, either in person or via videoconference.

The following information may be used to access and participate in the videoconference.

**Join Zoom Meeting:**

<https://us02web.zoom.us/j/87200921658?pwd=bVJrMTc3VnVdKzI4enpZOFVUZGFiUT09>

**Meeting ID: 872 0092 1658**

**Passcode: ERw3Ah**

At the meeting, bids will be opened and, unless obviously non-responsive, read aloud publicly. Respondents are invited to be present at the opening of bids. An abstract of the total bids will be made available to respondents after the opening of bids.

### **ATTACHMENTS**

- PRE-BID MEETING MINUTES & SIGN-IN SHEET
- REVISED BASIS OF BID FORM
- REVISED CONSTRUCTION PLANS

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## **MEETING MINUTES**

March 23, 2021, 10:00 am

155 Indiana Ave., Ste. 311 and Video Conference

Pre-Bid Meeting

Sunnybrooke Subdivision–Storm Water Management System Improvements

### **1. Sign-in and Introductions**

### **2. Project Overview**

The project is located near the intersection of CR 1050 N and CR 400 E, and generally extends from 1044 N 400 E to 1064 N 400 E. The project consists of the installation of storm sewer and storm sewer structures and grading ditches and swales to address long standing drainage flooding issues effecting the area around the intersection of CR 1050 N and CR 400 E.

### **3. Overview of Bidding Documents & Bidding Requirements**

- A. Bid Form
- B. Basis of Bid Form
  - i. Base Bid
- C. Bidders Work History Form
- D. Bidders Organizational Experience and Workload Form
- E. Bidders Subcontractor and Supplier Form
  - i. List entities comprising 10% or more of the bidder's total cost.
- F. Bid Security
  - i. 10% of total bid.
  - ii. Certified check, bank money order, or Bid Bond issued by acceptable surety.

### **4. Project Description**

- A. 600 LF of 30" RCP, Class III.
  - i. Storm sewer to be placed within the center of the south bound travel lane. Avoid placing castings in wheel tracks.
- B. 42 LF of 12" PVC, SDR 35.
  - i. 2 inlets, incidental to 12" PVC Storm Sewer (12" PVC elbow with Nyloplast Light Duty Dome)
- C. 2 Storm Sewer Structures, 5 ft. diameter
- D. 2 Storm Sewer Structures, 6 ft. diameter
- E. Grading Ditches & Swales
  - i. Overflow Swale
  - ii. Roadside Ditches
- F. Road cut and repair and/or reconstruction
  - i. Driveway
  - ii. CR 400 E, southbound (west) lane

## 5. Other Items

- A. Overview of important General Conditions.
- B. Questions during Bidding.
- C. Copies of bidding documents are fully downloadable on the Department's website at <http://www.porterco.org/stormwater>.
- D. Bids will remain open for 60 calendar days.
- E. Lowest, responsive, and responsible bidder will be awarded contract.
- F. Acknowledgement of Addenda
- G. Successful Bidder to provide the following within 10 days of NOA
  - i. Executed Contract, Performance Bond – 100%, Payment Bond – 100%, and Certificates of Insurance.
  - ii. E-Verify Affidavit and Certification Regarding Investment in Iran.
- H. Maintenance Bond will be required upon final acceptance of work as guarantee.
  - i. 10% of contract price for 1 year.
- I. Bidders shall inform themselves of existing site conditions.
- J. Minority and Women's Business Enterprises
  - i. Goals for this project are 7% MBE and 5% WBE participation.
  - ii. MBEs and WBEs must be certified.
- K. Owner is exempt from State Sales Tax on materials to be incorporated into the work. Sales and use tax shall not be included in the bid.
- L. Utility Coordination
  - i. Contractor shall confirm location and depth of utilities prior to start of work.

## 6. Notable Dates

- A. Pre-Bid Meeting: Tue., March 23, 2021, 10:00 am.
- B. Last Day for Questions: Thu., March 25 4:30 pm local time. Final addendum to be issued by midday Fri., March 26, 2021.
- C. Bid Due Date: Tuesday, March 30, 2021 10:00 am local time, Porter Co. Dept. Development & Storm Water Management. 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383.
- D. Bid Opening: Tuesday, March 30, 2021 10:00 am local time, at a public opening of bids, 155 Indiana Ave., Ste. 311, Valparaiso, Indiana 46383.
- E. Substantial & Final Completion:
  - i. Substantial Completion – July 31, 2021
  - ii. Final Completion – August 31, 2021

## 7. Questions

Q1: Can a full road closure be implemented? If so, is a detour plan available?

A1: Yes, a full road closure has been planned for this project. A detour plan is included on Sheet 6 of the construction plans.

Q2: Will an extension be issued for permanent seeding since August is outside of seeding windows?

A2: An extension may be issued depending on the weather and site conditions. In the event that permanent seeding is delayed, temporary seeding should be placed using the cover crop seed mix provided in the technical specifications.

SUNNYBROOKE SUBDIVISION - STORM WATER MANAGEMENT SYSTEM IMPROVEMENTS

PRE-BID MEETING

March 23, 2021 (10:00 AM CST)

NAME	COMPANY	ADDRESS	OFFICE/CELL/FAX	EMAIL
Michael Novotney ✓	Porter Co. Dept. of Development and Storm Water Management	155 Indiana Ave., Ste. 311 Valparaiso, IN 46383	Office: (219) 465-3507 Cell: (219) 307-3311 Fax: (219) 465-3543	<a href="mailto:mnovotney@porterco.org">mnovotney@porterco.org</a>
Chelsey Gordon ✓	Porter Co. Dept. of Development and Storm Water Management	155 Indiana Ave., Ste. 311 Valparaiso, IN 46383	Office: (219) 465-3652 Cell: (219) 252-7499 Fax:	<a href="mailto:chelsey.gordon@porterco.org">chelsey.gordon@porterco.org</a> GK
Meredith Phillis	Porter Co. Storm Water	155 Indiana Ave. Ste. 311 Valparaiso, IN	Office: (219) 465-3530 Cell: Fax:	<a href="mailto:Meredith.Phillis@porterco.org">Meredith.Phillis@porterco.org</a>
Chris Juda	Gough INC	2200 E 88TH MERRILLVILLE	Office: Cell: 219 702 2067 Fax:	<a href="mailto:Cjuda@goughinc.com">Cjuda@goughinc.com</a>
DOUG MALACKOWSKI	G.E. MARSHALL		Office: Cell: Fax:	<a href="mailto:doug.malackowski@gemarshall.com">doug.malackowski@gemarshall.com</a>
			Office: Cell: Fax:	

**SECTION II. BASIS OF BID FORM**  
*(Please type or print)*

This Basis of Bid Form is to be submitted by bidder, as part of the Bid Form, for the project designated as **Sunnybrooke Subdivision – Storm Water Management System Improvements**. It is to include an entry for each and every work item listed, including all base work items, all items “as ordered by Engineer”, if any, all additive work items, if any, and all alternate work items, if any, as well as a total quote, in both words and figures, as provided for below.

Bidder will perform all work specified or indicated in the contract documents in accordance with terms and conditions of such contract documents for the following price(s):

**BASE BID ITEMS**

ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	EXT. PRICE
1	MOBILIZATION & DEMOBILIZATION	LS	1		
2	PRE-CONSTRUCTION VIDEO SURVEY	LS	1		
3	CONSTRUCTION LAYOUT & SURVEY	LS	1		
4	AS-BUILT DRAWINGS	LS	1		
5	TEMPORARY CATCH BASIN INSERT INLET PROTECTION	EA	2		
6	TEMPORARY CONSTRUCTION ENTRANCE	EA	2		
7A	STORM SEWER, 12" PVC, SDR 35	LF	42		
7B	EXCAVATION FOR STORM SEWER, 12" PVC, SDR 35	CY	24		
7C	DEWATERING FOR STORM SEWER, 12" PVC, SDR 35	LS	1		
7D	BEDDING & INITIAL BACKFILL FOR STORM SEWER, 12" PVC, SDR 35	CY	11		
7E	FINAL BACKFILL FOR STORM SEWER, 12" PVC, SDR 35	CY	11		
8A	CULVERT, 12" CMP, 14 GA., PLAIN	LF	30		
8B	EXCAVATION FOR CULVERT, 12" CMP, 14 GA., PLAIN	CY	8		
8C	DEWATERING FOR CULVERT, 12" CMP, 14 GA., PLAIN	LS	1		
8D	BEDDING & INITIAL BACKFILL FOR CULVERT, 12" CMP, 14 GA., PLAIN	CY	5		
8E	FINAL BACKFILL FOR CULVERT, 12" CMP, 14 GA., PLAIN	CY	3		
9A	STORM SEWER, 30" RCP, CLASS III	LF	600		
9B	EXCAVATION FOR STORM SEWER, 30" RCP, CLASS III	CY	646		
9C	DEWATERING FOR STORM SEWER, 30" RCP, CLASS III	LS	1		
9D	BEDDING & INITIAL BACKFILL FOR STORM SEWER, 30" RCP, CLASS III	CY	317		
9E	FINAL BACKFILL FOR STORM SEWER, 30" RCP, CLASS III	CY	148		

ITEM	DESCRIPTION	UNIT	QTY.	UNIT PRICE	EXT. PRICE
9F	FLARED END SECTION, 30" RCP, W/ GRATE	EA	1		
9G	FLARED END SECTION, 30" RCP, W/O GRATE (D/S)	EA	1		
10A	STORM SEWER STRUCTURE, 5 FT DIA, 4-8 FT DEEP	EA	2		
10B	EXCAVATION FOR STORM SEWER STRUCTURE, 5 FT DIA, 4-8 FT DEEP	CY	17		
10C	DEWATERING FOR STORM SEWER STRUCTURE, 5 FT DIA, 4-8 FT DEEP	LS	1		
10D	STRUCTURE BEDDING FOR STORM SEWER STRUCTURE, 5 FT DIA, 4-8 FT DEEP	CY	2		
10E	STRUCTURE BACKFILL FOR STORM SEWER STRUCTURE, 5 FT DIA, 4-8 FT DEEP	CY	3		
11A	STORM SEWER STRUCTURE, 6 FT DIA, 4-8 FT DEEP	EA	2		
11B	EXCAVATION FOR STORM SEWER STRUCTURE, 6 FT DIA, 4-8 FT DEEP	CY	23		
11C	DEWATERING FOR STORM SEWER STRUCTURE, 6 FT DIA, 4-8 FT DEEP	LS	1		
11D	STRUCTURE BEDDING FOR STORM SEWER STRUCTURE, 6 FT DIA, 4-8 FT DEEP	CY	2		
11E	STRUCTURE BACKFILL FOR STORM SEWER STRUCTURE, 6 FT DIA, 4-8 FT DEEP	CY	4		
12	GRADING DITCHES & SWALES, OVERFLOW SWALE	LF	280		
13	GRADING DITCHES & SWALES, ROADSIDE DITCH	LF	383		
14	ROCK APRON	SY	40		
15	CLEARING & TREE REMOVAL	AC	0.3		
16	MOWING	AC	0.2		
17	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, EXCESS EXCAVATED MATERIAL	CY	1050		
18	ROAD CUT & REPAIR, DRIVEWAY	SY	20		
19A	ROAD CUT & REPAIR, CR 400 E MILLING, FULL DEPTH, 4.5 INCHES	SY	730		
19B	ROAD CUT & REPAIR, CR 400 E 12" COMPACTED AGGREGATE FOR BASE, NO. 53	TON	1084		
19C	ROAD CUT & REPAIR, CR 400 E GEOGRID	SY	730		
19D	ROAD CUT & REPAIR, CR 400 E HMA, INTERMEDIATE, TYPE B, 3"	TON	133		
19E	ROAD CUT & REPAIR, CR 400 E HMA, SURFACE, TYPE B, 1.5"	TON	66		
20	MAINTENANCE OF TRAFFIC	LS	1		
<b>TOTAL BID (TOTAL OF ALL EXTENDED PRICES, ITEMS 1-20):</b>					

Bidder's total bid for the work, which is the sum of the Bidder's extended price(s) for the base bid items, is:

**TOTAL BID  
(IN FIGURES):**

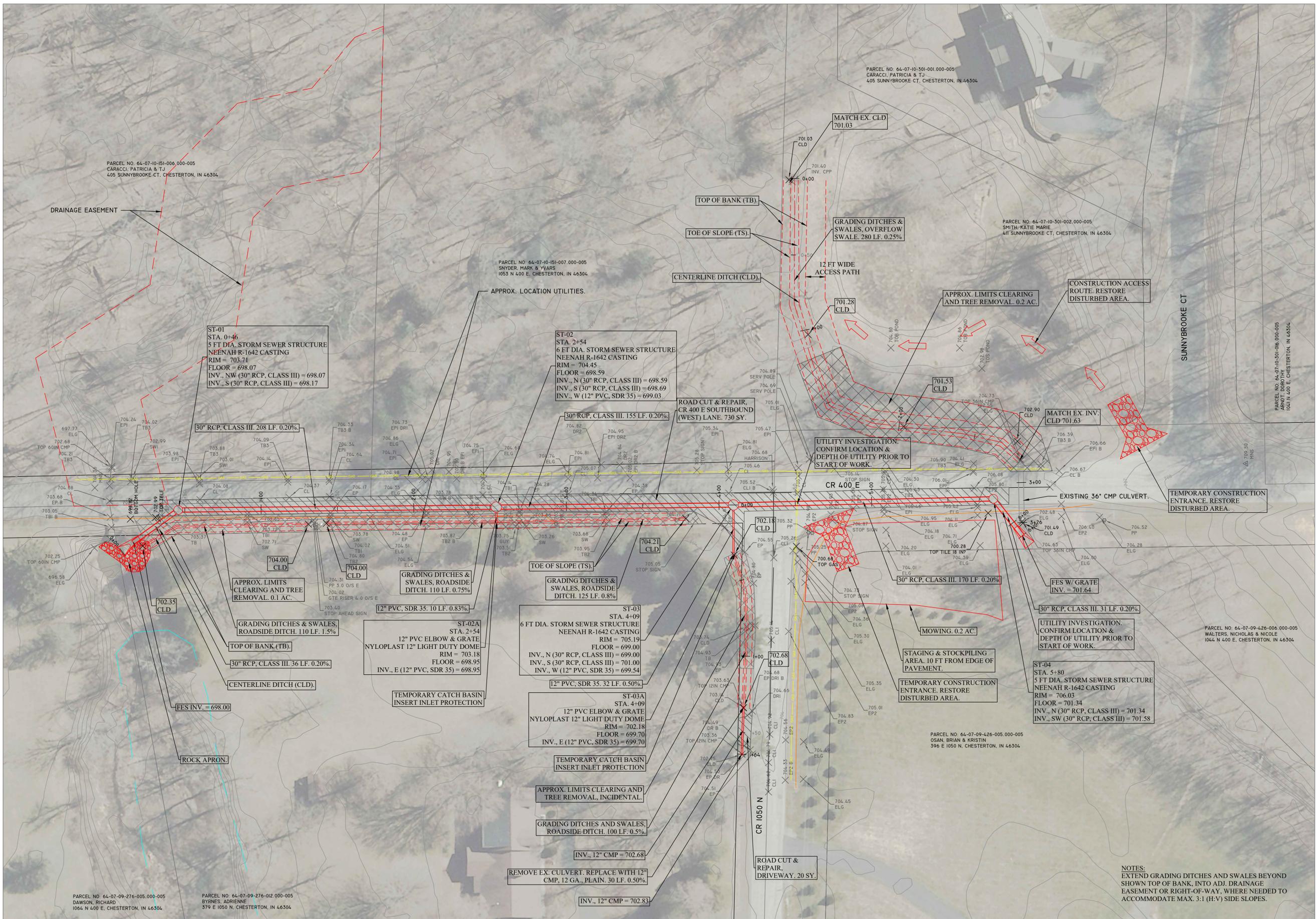
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**TOTAL BID  
(IN WORDS):**

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Bidder acknowledges that the quantities of items of unit price work included on this Basis of Bid Form are not guaranteed and are provided solely for the purposes of comparing bids, establishing pay item unit prices, and determining an initial contract price. Except as otherwise stated in the contract documents, payment to the successful bidder will be based upon the actual quantities of work performed, the acceptance of such work and the determination of such quantities to be made by the Engineer in accordance with the contract documents.





NO.	DATE	REVISION	BY
1	3/16/21	FOR BIDDING	CRG
2	3/26/21	ADDENDUM #2	CRG

DESIGNED:	CRG
DRAWN:	CRG
CHECKED:	MEN
DATE:	4/9/2019
PROJECT NO.:	P21-021



The Department of  
**DEVELOPMENT & STORM WATER MANAGEMENT**  
Porter County, Indiana

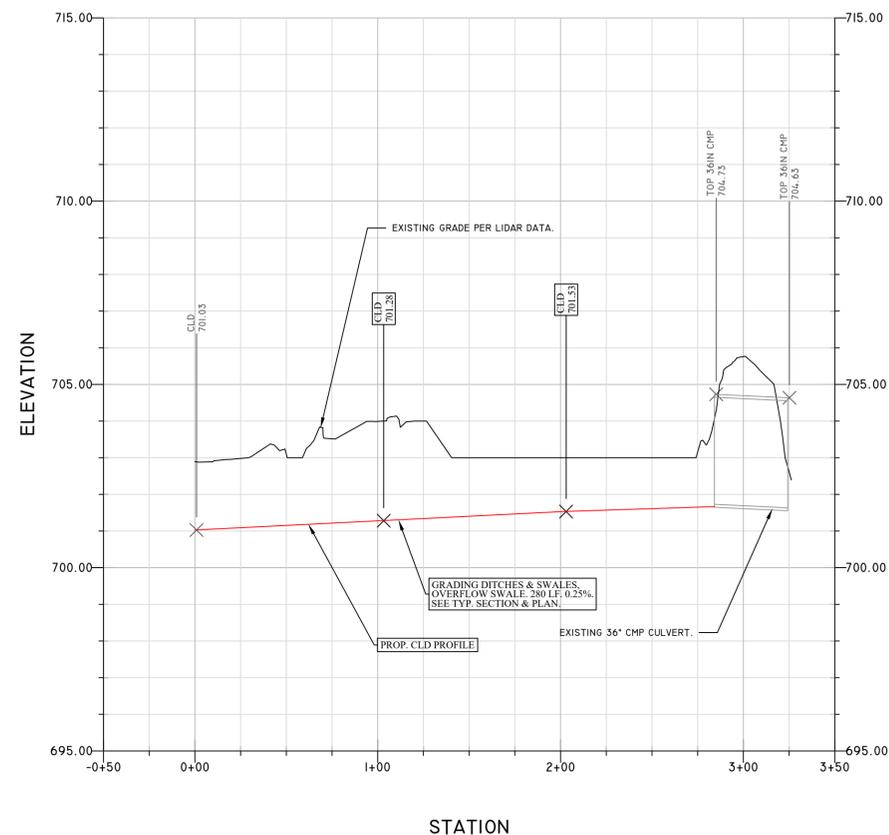
PROJECT:	SUNNYBROOKE SUBD. - SWM SYSTEM IMPROVEMENTS
LOCATION:	NEAR CR 400 E & CR 1050 N
SHEET TITLE:	SHEET 2-PLAN

SHEET NO.:	2 OF 6
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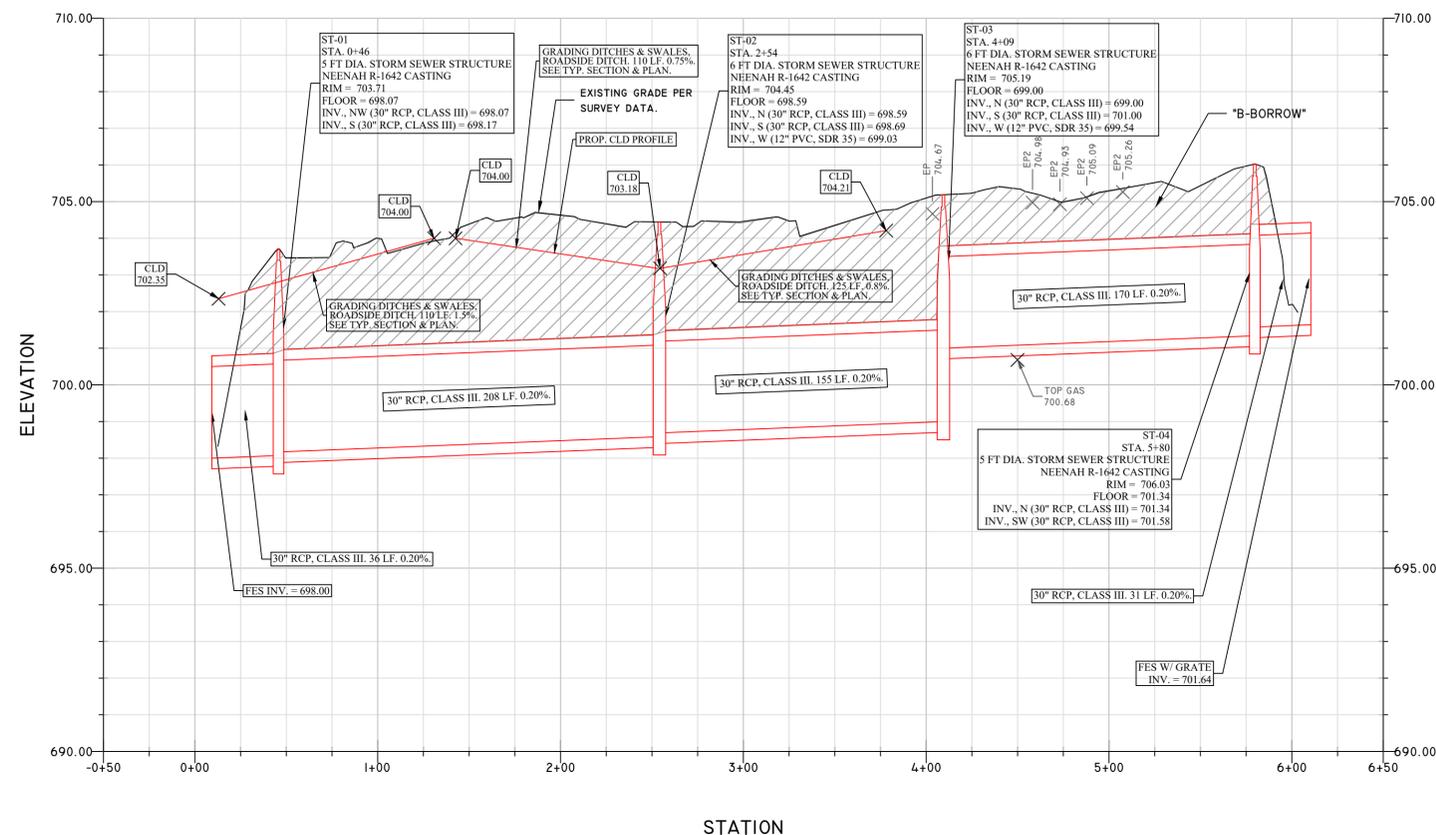
NOTES:  
EXTEND GRADING DITCHES AND SWALES BEYOND SHOWN TOP OF BANK, INTO ADJ. DRAINAGE EASEMENT OR RIGHT-OF-WAY, WHERE NEEDED TO ACCOMMODATE MAX. 3:1 (H:V) SIDE SLOPES.

© 2019 WATER MANAGEMENT, INC. PROJECT: SUNNYBROOKE SUBDIVISION, SUNNYBROOKE, SUBDIVISION, SUNNYBROOKE, INDIANA

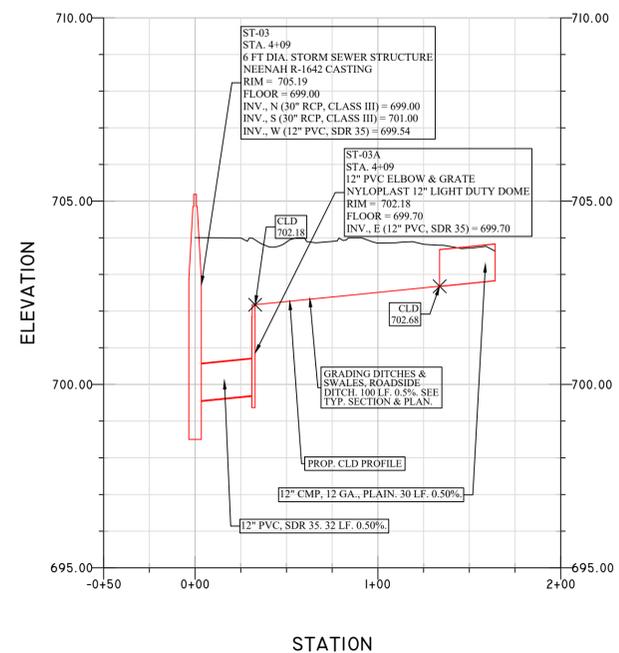
PROFILE VIEW OF OVERFLOW SWALE



PROFILE VIEW OF SUNNYBROOKE SUBD. SWM SYSTEM IMPROVEMENTS



PROFILE VIEW OF CR 1050 N ROADSIDE DITCH



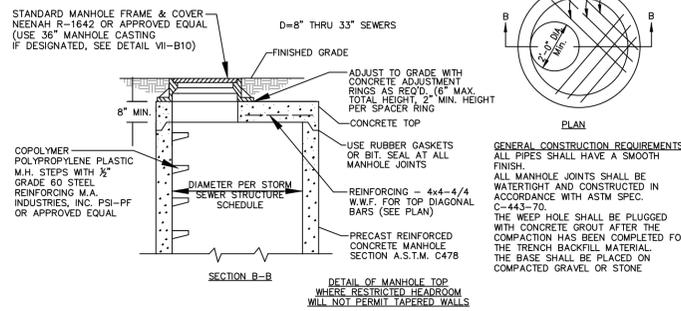
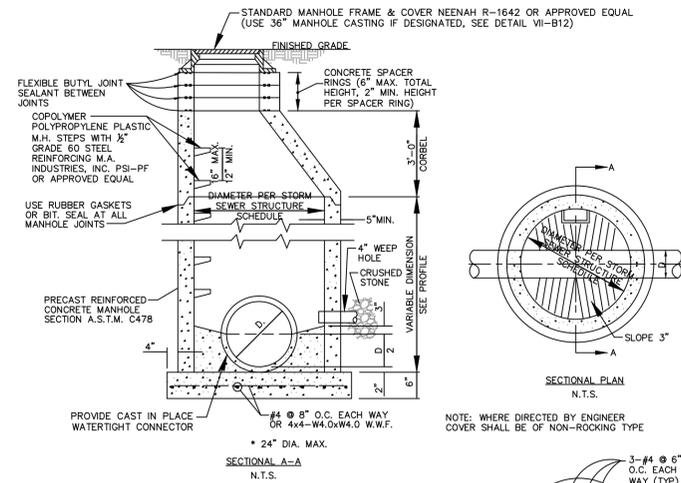
NO.	DATE	REVISION	BY
1	3/16/21	FOR BIDDING	CRG
2	3/26/21	ADDENDUM #2	CRG

DESIGNED:	CRG
DRAWN:	CRG
CHECKED:	MEN
DATE:	4/9/2019
PROJECT NO.:	P21-021

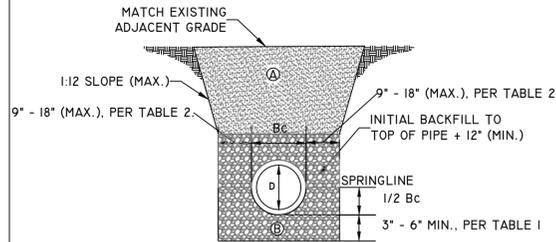


PROJECT:	SUNNYBROOKE SUBD. - SWM SYSTEM IMPROVEMENTS
LOCATION:	NEAR CR 400 E & CR 1050 N
SHEET TITLE:	SHEET 3-PROFILE

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STORM SEWER STRUCTURE



LEGEND

- A UNDER PAVEMENT AND/OR WITHIN 2 FT OF PAVEMENT, TRENCH BACKFILL SHALL BE USED. ELSEWHERE, SUITABLE EXCAVATED MATERIAL MAY BE USED. INSTALL FINAL BACKFILL & COMPACT IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- B CRUSHED STONE OR GRAVEL INDOT NO. 5, NO. 8, OR NO. 9 COARSE AGGREGATE WITH A 50% MECHANICAL CRUSH COUNT.

Bc PIPE OUTSIDE DIAMETER

NOTES:

- I. ALL BEDDING & INITIAL BACKFILL SHALL BE INSTALLED IN 8" LIFTS (MAX.) & COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. BEDDING & INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED AROUND THE HAUNCH AND SIDES OF THE PIPE TO ENSURE PROPER COMPACTION AND COMPLETE FILLING OF ALL VOIDS.

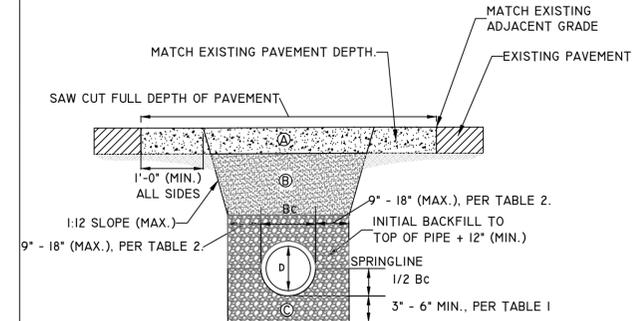
TABLE I.

DEPTH OF BEDDING BELOW PIPE	
d	BEDDING (MIN.)
d ≤ 24 IN.	3 IN.
24 IN. ≤ d ≤ 60 IN.	4 IN.
d ≥ 60 IN.	6 IN.

TABLE 2.

WIDTH OF TRENCH, EACH SIDE OF PIPE	
d	WIDTH (MAX.)
d ≤ 24 IN.	9 IN.
24 IN. ≤ d ≤ 60 IN.	12 IN.
d ≥ 60 IN.	18 IN.

STORM SEWER BEDDING AND BACKFILL



LEGEND

- A FULL DEPTH HMA REPAIR, SEE DETAIL.
- B TRENCH BACKFILL, B BORROW OR CRUSHED STONE OR GRAVEL INDOT NO. 53 OR NO. 73 COARSE AGGREGATE. BACKFILL IN 8" LIFTS (MAX.) & COMPACT IN ACCORDANCE WITH TECHNICAL SPECIFICATIONS.
- C CRUSHED STONE OR GRAVEL INDOT NO. 5, NO. 8, OR NO. 9 COARSE AGGREGATE WITH A 50% MECHANICAL CRUSH COUNT.

Bc PIPE OUTSIDE DIAMETER

NOTES:

- I. ALL BEDDING, INITIAL BACKFILL, & FINAL BACKFILL SHALL BE INSTALLED IN 8" LIFTS (MAX.) & COMPACTED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS. BEDDING & INITIAL BACKFILL MATERIAL SHALL BE HAND PLACED AROUND THE HAUNCH AND SIDES OF THE PIPE TO ENSURE PROPER COMPACTION AND COMPLETE FILLING OF ALL VOIDS.

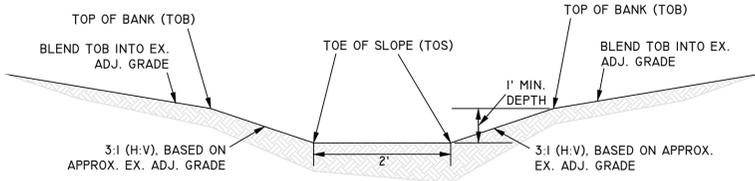
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ROAD CUT & REPAIR

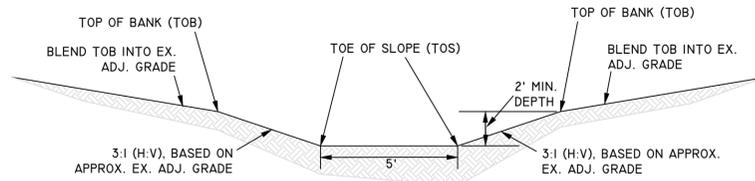


SECTION VIEW NOT TO SCALE

NOTES:

- I. RESTORE DISTURBED AREA AS FOLLOWS:  
A. WITHIN SWALE (TOB TO TOS): RESTORE DISTURBED AREA WITH TOPSOIL AND/OR GRASS SEED & EROSION CONTROL BLANKET (NAG S75BN).  
B. OTHER AREAS: RESTORE DISTURBED AREA WITH TOPSOIL AND/OR GRASS SEED & STRAW MULCH.

GRADING DITCHES & SWALES, ROADSIDE DITCH

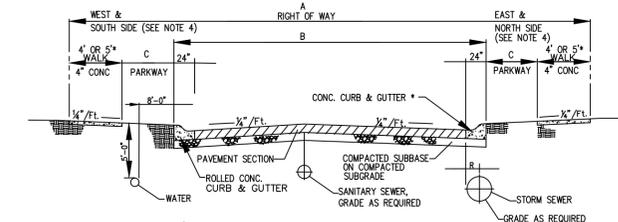


SECTION VIEW NOT TO SCALE

NOTES:

- I. RESTORE DISTURBED AREA AS FOLLOWS:  
A. WITHIN SWALE (TOB TO TOS): RESTORE DISTURBED AREA WITH TOPSOIL AND/OR GRASS SEED & EROSION CONTROL BLANKET (NAG S75BN).  
B. OTHER AREAS: RESTORE DISTURBED AREA WITH TOPSOIL AND/OR GRASS SEED & STRAW MULCH.

GRADING DITCHES & SWALES, OVERFLOW SWALE



\* EXTERNAL ROADWAYS SHALL HAVE 5' SIDEWALKS. INTERNAL ROADWAYS SHALL HAVE 4' SIDEWALKS UNLESS IT IS PART OF A MAJOR PATHWAY OR PEDESTRIAN NETWORK.

CLASSIFICATION	MIN. GRADE	MAX. GRADE	MIN. STOP DISTANCE
ARTERIAL	0.5%	6.0%	500'
COLLECTOR STREET	0.5%	6.0%	300'
LOCAL STREET, BOULEVARD	0.5%	6.0%	150'
ALLEY	0.5%	6.0%	-

\* OR CALCULATED STOPPING SIGHT DISTANCE PER AASHTO IF GREATER

CLASSIFICATION	MINIMUM PAVEMENT THICKNESS			
	HMA SURFACE	HMA BINDER	AGG. BASE (SUBBASE)	GEOTEXT. RECD.
ARTERIAL	1 1/2"	3"	20"	YES
COLLECTOR STREET	1 1/2"	3"	12"	YES
LOCAL STREET, BOULEVARD	1 1/2"	2 1/2"	10"	YES
ALLEY **	1 1/2"	2 1/2"	8"	YES

\*\* NEW OR RECONSTRUCTED.

CLASSIFICATION	A	B	C	MIN. CURVE RADIUS	MIN. TANGENT	NOTES
ARTERIAL	80'	*	*	500**	100'	SIDEWALKS MAY BE REQUIRED*
COLLECTOR	80'	*	17.5'	300**	60'	SIDEWALKS REQUIRED
BOULEVARD (ONE WAY)	20'	0-11	200**	40'	40'	SIDEWALKS REQUIRED
LOCAL (RESIDENTIAL)	80'	30'	0-11	100**	40'	SIDEWALKS REQUIRED
ALLEY	16.5'	12'	N/A	N/A	N/A	NO SIDEWALK
FRONTAGE	40'	24'	*	100**	40'	SIDEWALKS MAY BE REQUIRED* 4' SHLDR., NO PARKING
FRONTAGE	40'	28'	*	100**	40'	SIDEWALKS MAY BE REQUIRED* 4' SHLDR., ONE SIDE PARKING

\* PORTER COUNTY ENGINEERING DEPARTMENT DETERMINATION  
\*\* MINIMUM TANGENT OF 100' SHALL SEPARATE ALL REVERSE CURVES.

NOTES:

- 1. UNDERDRAINS SHALL BE PROVIDED AT LOW POINTS.
- 2. INDUSTRIAL STREETS SHALL HAVE MINIMUM ROADWAY DIMENSIONS AS LOCAL STREETS. MINIMUM PAVEMENT SECTION SHALL BE SAME AS LOCAL STREETS, BUT A THICKER SECTION SHALL BE USED IF TRAFFIC NEEDS AND SOIL CONDITIONS WARRANT. DESIGN AND CALCULATIONS SHALL BE PROVIDED BY REGISTERED PROFESSIONAL ENGINEER.
- 3. FRONTAGE ROADS SHALL HAVE MINIMUM R/W WIDTH OF 40'.
- 4. VARIATIONS TO THE EAST, WEST, NORTH, SOUTH RULE MAY BE APPROVED ON CASE-BY-CASE BASIS.
- 5. HOUSE TELEPHONE DROPS SHALL BE 24" DEEP.

FULL DEPTH HMA REPAIR



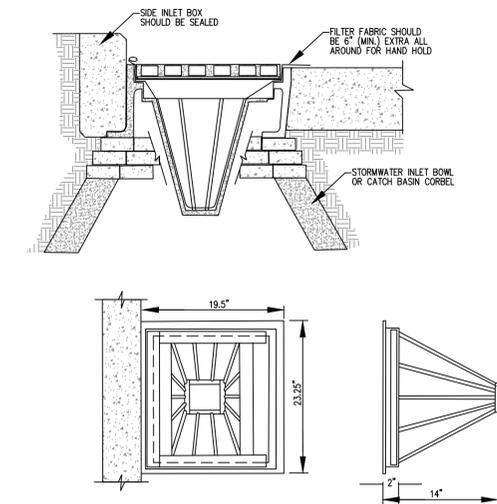
PROJECT: SUNNYBROOKE SUBD. -SWM SYSTEM IMPROVEMENTS

LOCATION: NEAR CR 400 E & CR 1050 N

SHEET TITLE: SHEET 4-DETAILS

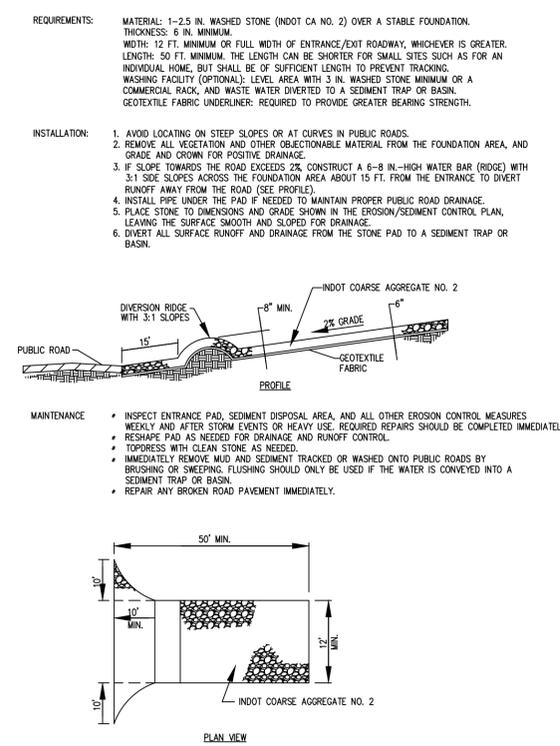
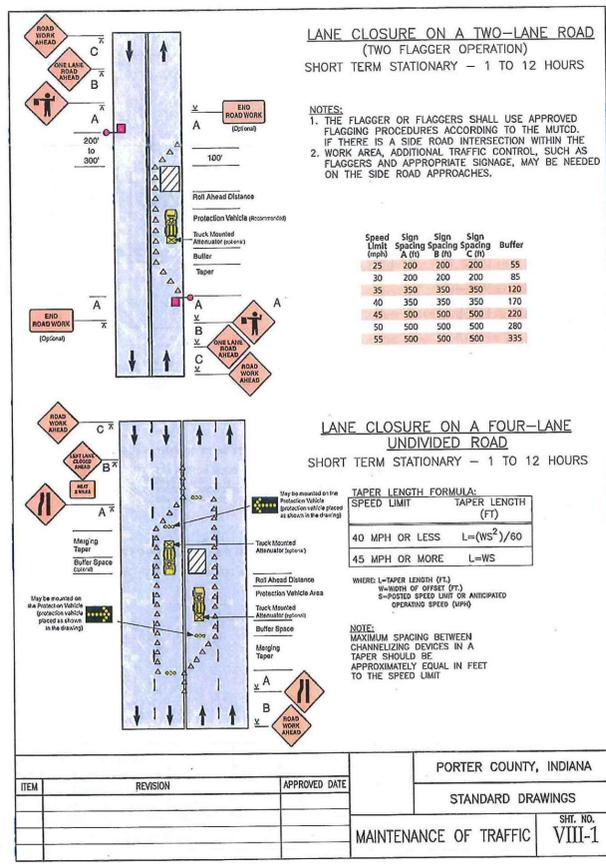
SHEET NO.:

STREAM DIVERSION STORM SEWER STORM SEWER STRUCTURE SCHEDULE									
STRUCTURE NO.	STATION	DIAMETER (FT)	NORTHING	EASTING	RIM ELEV.	FLOOR ELEV.	PIPE OUT, INVERT(S)	PIPE IN, INVERT(S) AND ANGLE(S) (FROM OUT)	CASTINGS
ST-01	0+46	5	2308751.53	2978381.29	703.71	698.07	NW 30° RCP, CLASS III 698.07	S 30° RCP, CLASS III 698.17 215°	NEENAH R-1642 CASTING
ST-02	2+54	6	2308543.19	2978383.16	704.45	698.59	N 30° RCP, CLASS III 698.59	S 30° RCP, CLASS III 698.69, 180° W 12° PVC, SDR 35 699.03, 270°	NEENAH R-1642 CASTING
ST-02A	2+54	1	2308543.07	2978373.51	703.18	698.95	E 12° PVC, SDR 35 698.95	N/A	NYLOPLAST 12" LIGHT DUTY DOME
ST-03	4+09	6	2308387.85	2978384.58	705.19	699.00	N 30° RCP, CLASS III 699.00	S 30° RCP, CLASS III 701.00, 180° W 12° PVC, SDR 35 699.54, 270°	NEENAH R-1642 CASTING
ST-03A	4+09	1	2308387.79	2978352.64	702.18	699.70	E 12° PVC, SDR 35 699.70	N/A	NYLOPLAST 12" LIGHT DUTY DOME
ST-04	5+80	5	2308217.58	2978388.61	706.03	701.34	N 30° RCP, CLASS III 701.34	SW 30° RCP, CLASS III 701.58, 233°	NEENAH R-1642 CASTING

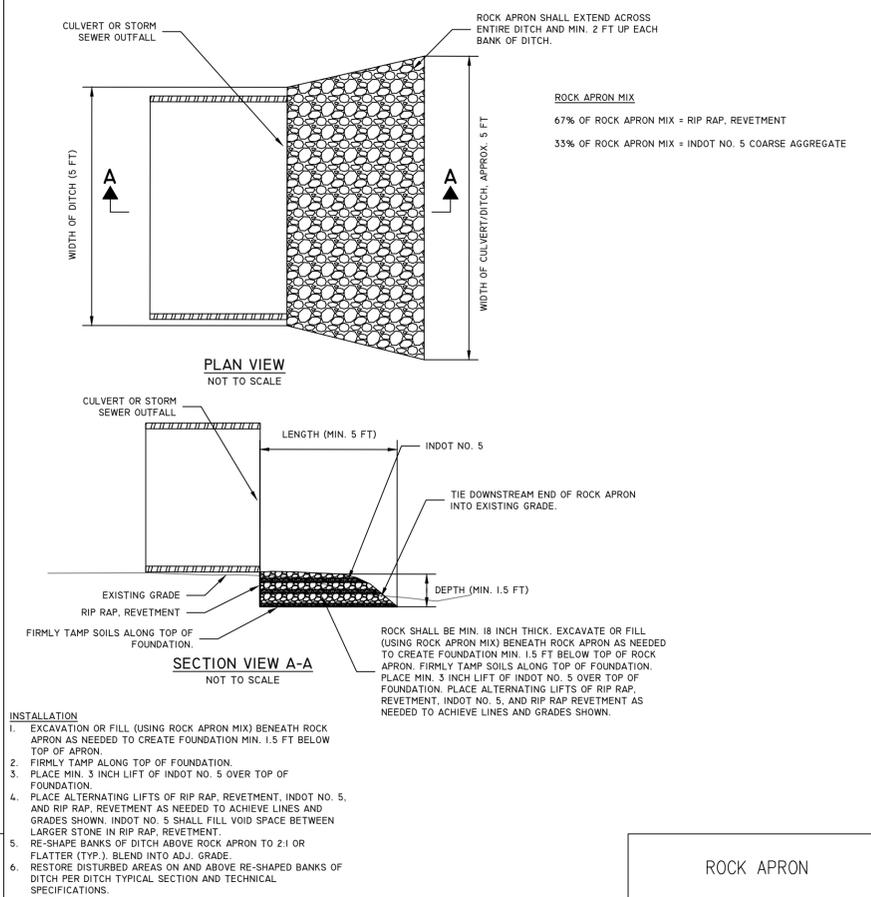


- PURPOSE: 1. TO PREVENT EXCESSIVE SEDIMENT FROM ENTERING STORM SEWERS AT CURB INLETS, ALLOWING FULL USE OF THE STORM DRAIN SYSTEM DURING THE CONSTRUCTION PERIOD.
- REQUIREMENTS: 1. BASKET: FABRICATED METAL WITH TOP WIDTH-LENGTH DIMENSIONS SUCH THAT THE BASKET FITS INTO THE INLET WITHOUT CAPS, AND LINE IT WITH GEOTEXTILE FABRIC FOR FILTRATION.
- INSTALLATION: 1. INSTALL BASKET CURB INLET PROTECTIONS AS SOON AS INLET BOXES ARE INSTALLED IN A NEW DEVELOPMENT OR BEFORE LAND DISTURBING ACTIVITIES BEGAIN IN A STABILIZED AREA.  
2. REMOVE THE GRATE AND PLACE THE BASKET IN THE INLET.  
3. CUT AND INSTALL A PIECE OF FILTER FABRIC LARGE ENOUGH TO LINE THE INSIDE OF THE BASKET AND EXTEND AT LEAST 6" BEYOND THE FRAME.  
4. REPLACE THE INLET GRATE WHICH ALSO SERVES TO ANCHOR THE FABRIC.  
5. FOLLOW INSTRUCTIONS AS PROVIDED BY MANUFACTURER.
- MAINTENANCE: 1. INSPECT WITHIN 24 HOURS AFTER EACH STORM EVENT.  
2. REMOVE BUILT-UP SEDIMENT AND REPLACE THE GEOTEXTILE FABRIC AFTER EACH STORM EVENT.  
3. REPLACE BASKET EVERY SIX (6) MONTHS.  
4. REPLACE BASKET AFTER ANY OIL, GASOLINE OR SOLVENT SPILL, OR IF THERE IS A HOLE IN THE FABRIC.

CATCH BASIN INSERT INLET PROTECTION



TEMPORARY CONSTRUCTION ENTRANCE



ROCK APRON

BY:	CRG
REVISION:	FOR BIDDING
DATE:	3/16/21
NO.:	2
ADDENDUM #:	
DESIGNED:	CRG
DRAWN:	CRG
CHECKED:	MEN
DATE:	4/9/2019
PROJECT NO.:	P21-021

**PROJECT:** SUNNYBROOKE SUBD. - SWM SYSTEM IMPROVEMENTS

**LOCATION:** NEAR CR 400 E & CR 1050 N

**SHEET TITLE:** SHEET 5-DETAILS AND STORM SEWER STRUCTURE SCHEDULE

**PORTER COUNTY, INDIANA**

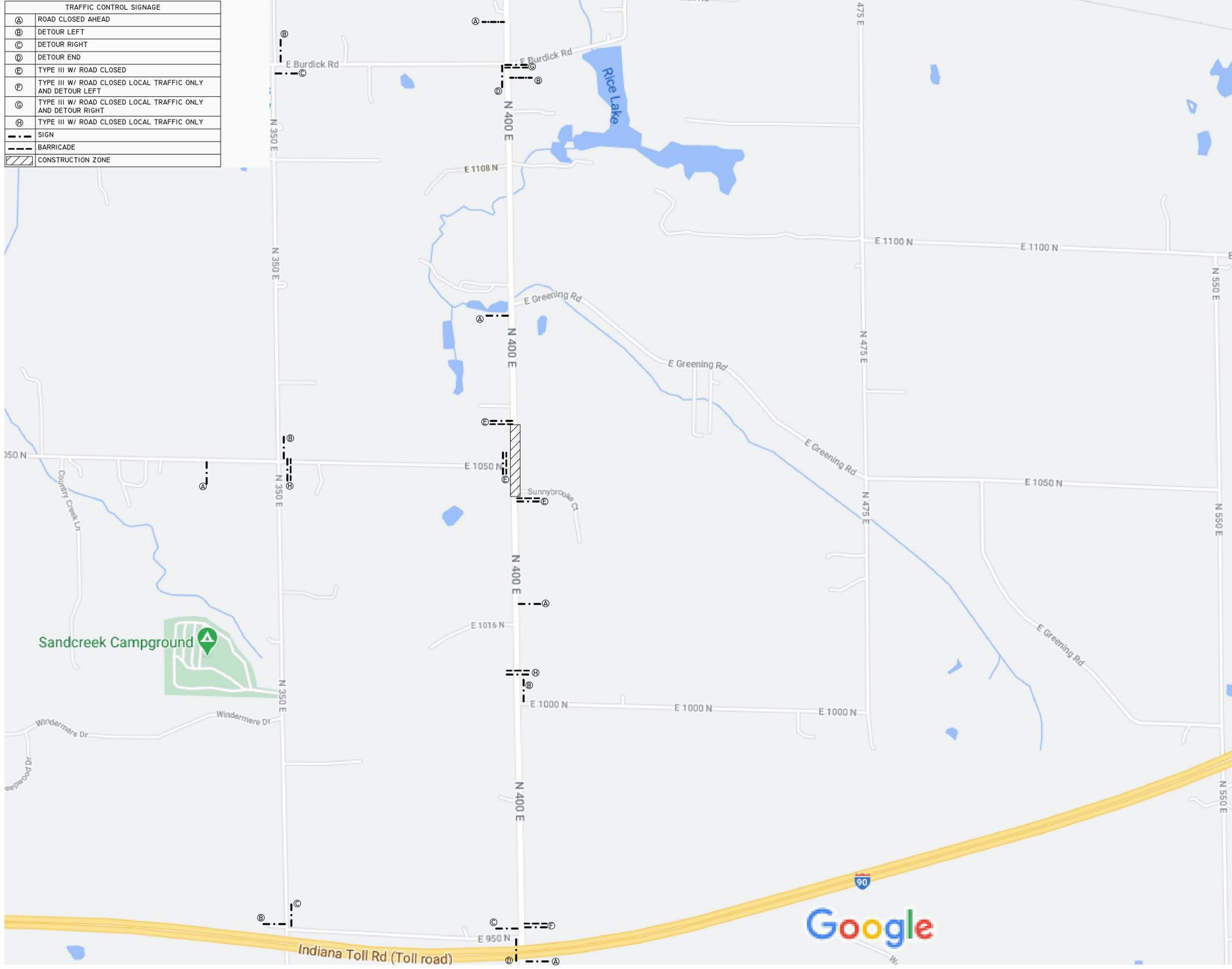
**STANDARD DRAWINGS**

**MAINTENANCE OF TRAFFIC**

**SHT. NO. VIII-1**

**5 of 6**

TRAFFIC CONTROL SIGNAGE	
Ⓐ	ROAD CLOSED AHEAD
Ⓑ	DETOUR LEFT
Ⓒ	DETOUR RIGHT
Ⓓ	DETOUR END
Ⓔ	TYPE III W/ ROAD CLOSED
Ⓕ	TYPE III W/ ROAD CLOSED LOCAL TRAFFIC ONLY AND DETOUR LEFT
Ⓖ	TYPE III W/ ROAD CLOSED LOCAL TRAFFIC ONLY AND DETOUR RIGHT
Ⓗ	TYPE III W/ ROAD CLOSED LOCAL TRAFFIC ONLY
---	SIGN
---	BARRICADE
▨	CONSTRUCTION ZONE



NO.	DATE	REVISION	BY
1	3/16/21	FOR BIDDING	CRG
2	3/26/21	ADDENDUM #2	CRG

DESIGNED:	CRG
DRAWN:	CRG
CHECKED:	MEN
DATE:	4/9/2019
PROJECT NO.:	P21-021



The Department of  
**DEVELOPMENT & STORM WATER MANAGEMENT**  
 Porter County, Indiana

PROJECT:	SUNNYBROOKE SUBD. -SWM SYSTEM IMPROVEMENTS
LOCATION:	NEAR CR 400 E & CR 1050 N
SHEET TITLE:	SHEET 6-TRAFFIC CONTROL PLAN