

CONSTRUCTION PLANS
FOR
SADDLEBROOK SUBDIVISION
STORM WATER MANAGEMENT SYSTEM IMPROVEMENTS

PORTER CO. DEPARTMENT OF DEVELOPMENT & STORMWATER MANAGEMENT
JUNE 3, 2021

The following Construction Plans shall apply to and govern the project designated as **Saddlebrook Subdivision – Storm Water Management System Improvements**. Such Technical Specifications supplement the specifications contained in the documents listed in the table below and, in case of conflict with any part or parts of said specifications, the Engineer shall determine which specifications shall take precedence and govern. The following hierarchy will be applied by the Engineer in resolving any conflict, error, ambiguity, or discrepancy in or between said specifications.

Specification	Issuing Agency	Adopted/Dated
Technical Specifications for Saddlebrook Subdivision – Storm Water Management System Improvements	Porter Co. Department of Development & Storm Water Management	June 3, 2021
Construction Plans for Saddlebrook Subdivision – Storm Water Management System Improvements	Porter Co. Department of Development & Storm Water Management	June 3, 2021
General Specifications to the Construction & Maintenance Services Agreements	Porter Co. Department of Development & Storm Water Management	February 1, 2021

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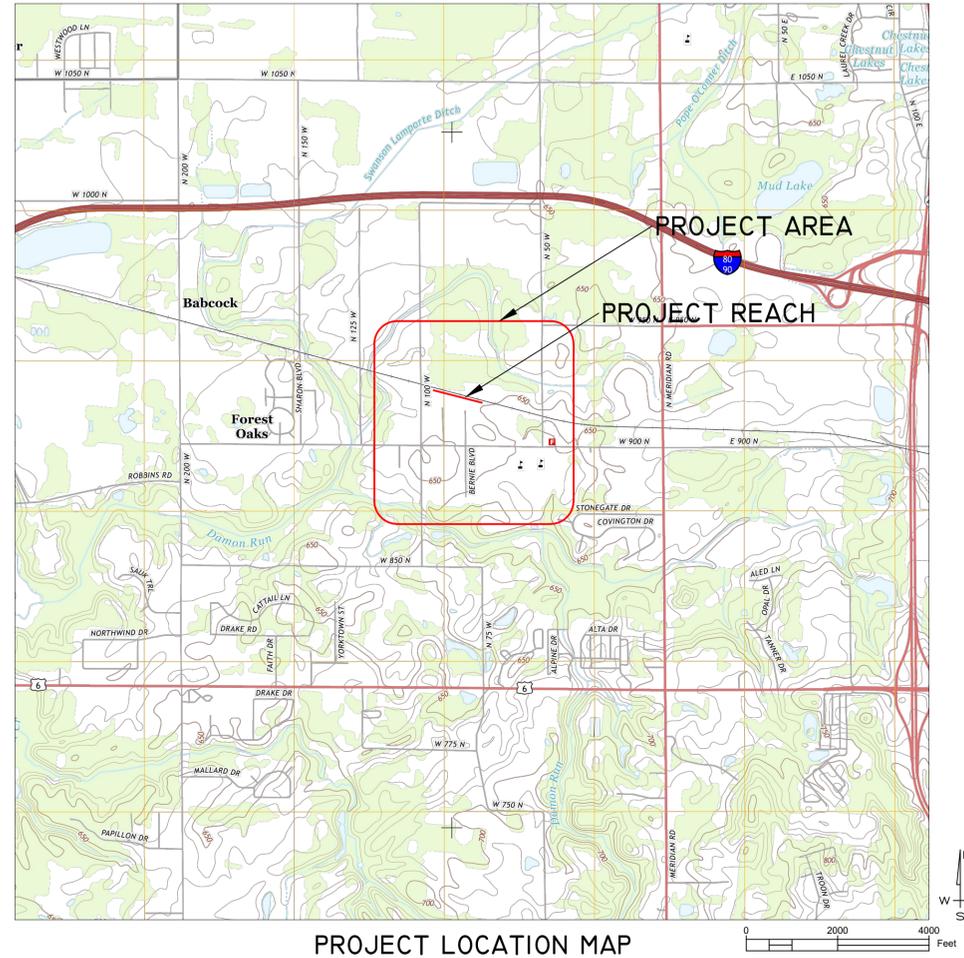
PORTER CO. DEPT. OF DEVELOPMENT & STORM WATER MANAGEMENT

SADDLEBROOK SUBDIVISION

PORTER COUNTY, IN

OWNER:
 PORTER CO. DEPT. OF DEVELOPMENT &
 STORM WATER MANAGEMENT
 ATTN: MICHAEL E. NOVOTNEY, P.E.
 155 INDIANA AVE. STE. 311
 VALPARAISO, IN 46383
 P: (219) 465-3530

ENGINEER:
 PORTER CO. DEPT. OF DEVELOPMENT &
 STORM WATER MANAGEMENT
 ATTN: MICHAEL E. NOVOTNEY, P.E.
 155 INDIANA AVE. STE. 311
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- SHEET INDEX:**
1. COVER
 2. OVERALL PLAN
 3. PLAN - STA. 0+00 TO 5+50
 4. PLAN - STA. 5+50 TO 11+58
 5. PROFILE AND STORM SEWER STRUCTURE SCHEDULE
 6. DETAILS
 7. RESTORATION PLAN

NO.	DATE	REVISION	BY
1	05/19/21	INTERNAL REVIEW	CRG
2	06/02/21	FOR BIDDING	CRG

DESIGNED:	CRG
DRAWN:	CRG
CHECKED:	MEN
DATE:	11/13/19
PROJECT NO.:	P21-044



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

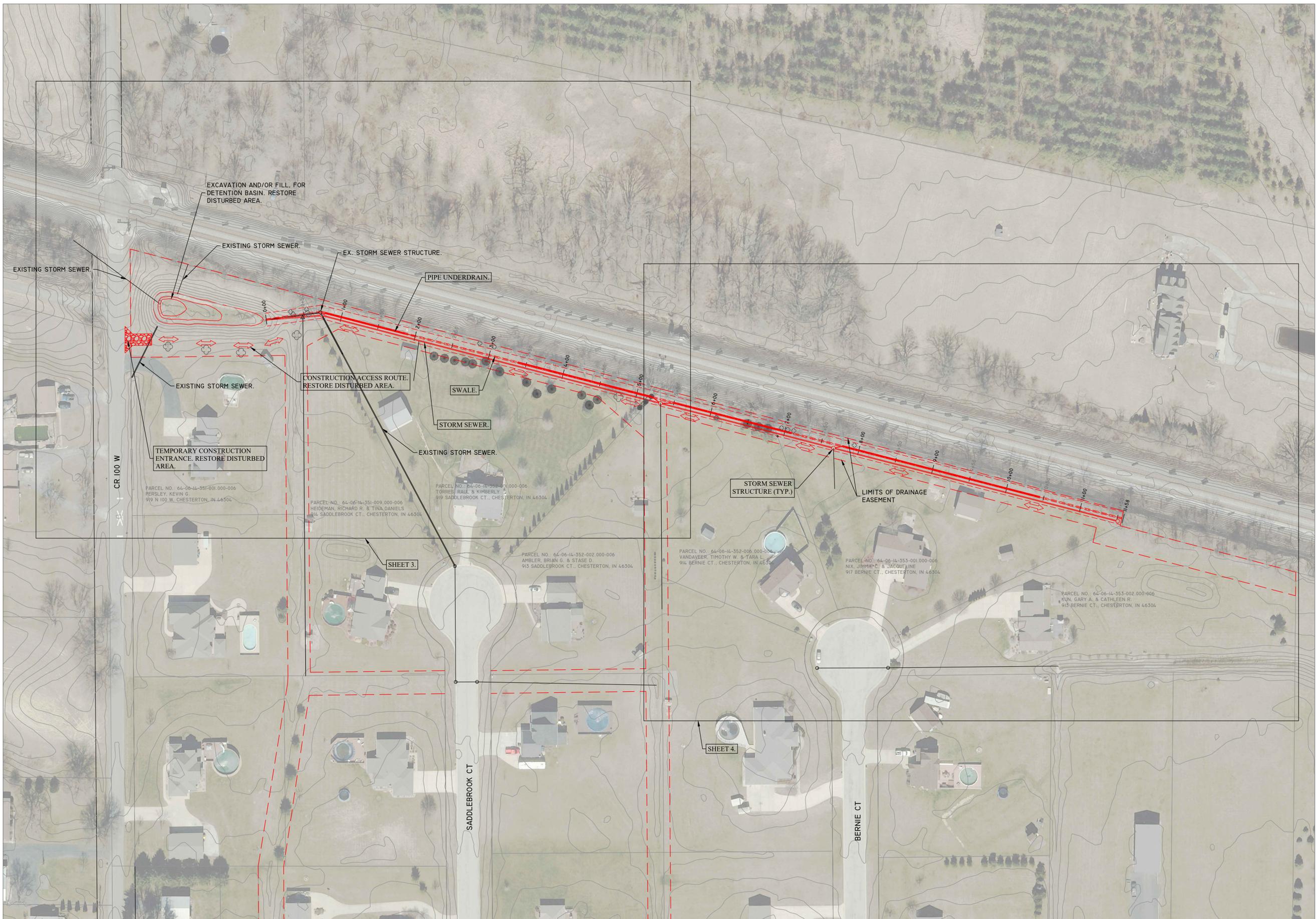
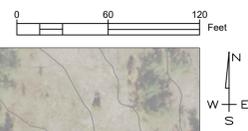
PROJECT:	SADDLEBROOK SUBD. -SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 1 - COVER

I, THE UNDERSIGNED, A PROFESSIONAL ENGINEER REGISTERED WITH THE STATE OF INDIANA, WHOSE LICENSE IS IN GOOD STANDING, HEREBY CERTIFY THAT THESE PLANS WERE PREPARED BY ME OR UNDER MY DIRECT SUPERVISION.

CHELSEY R. GORDON, PE
 INDIANA LICENSED PROFESSIONAL ENGINEER NO. PE12100019
 EXPIRES 7/31/2022

APPROVED FOR CONSTRUCTION BY: _____
 MICHAEL E. NOVOTNEY, PE
 COUNTY ENGINEER

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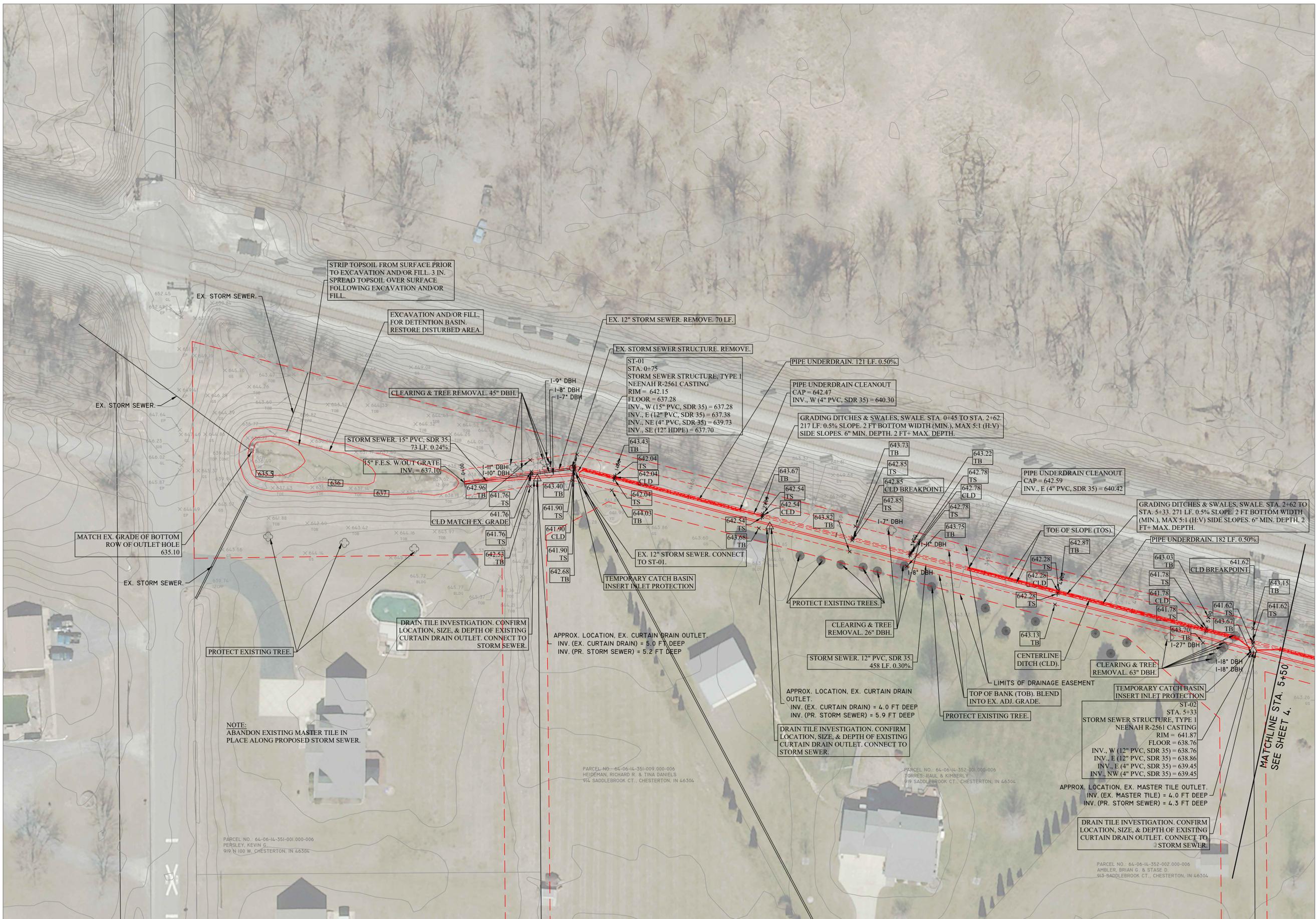
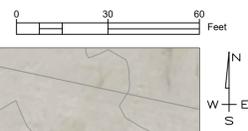


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PROJECT:	SADDLEBROOK SUBD. -SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 2-OVERALL PLAN

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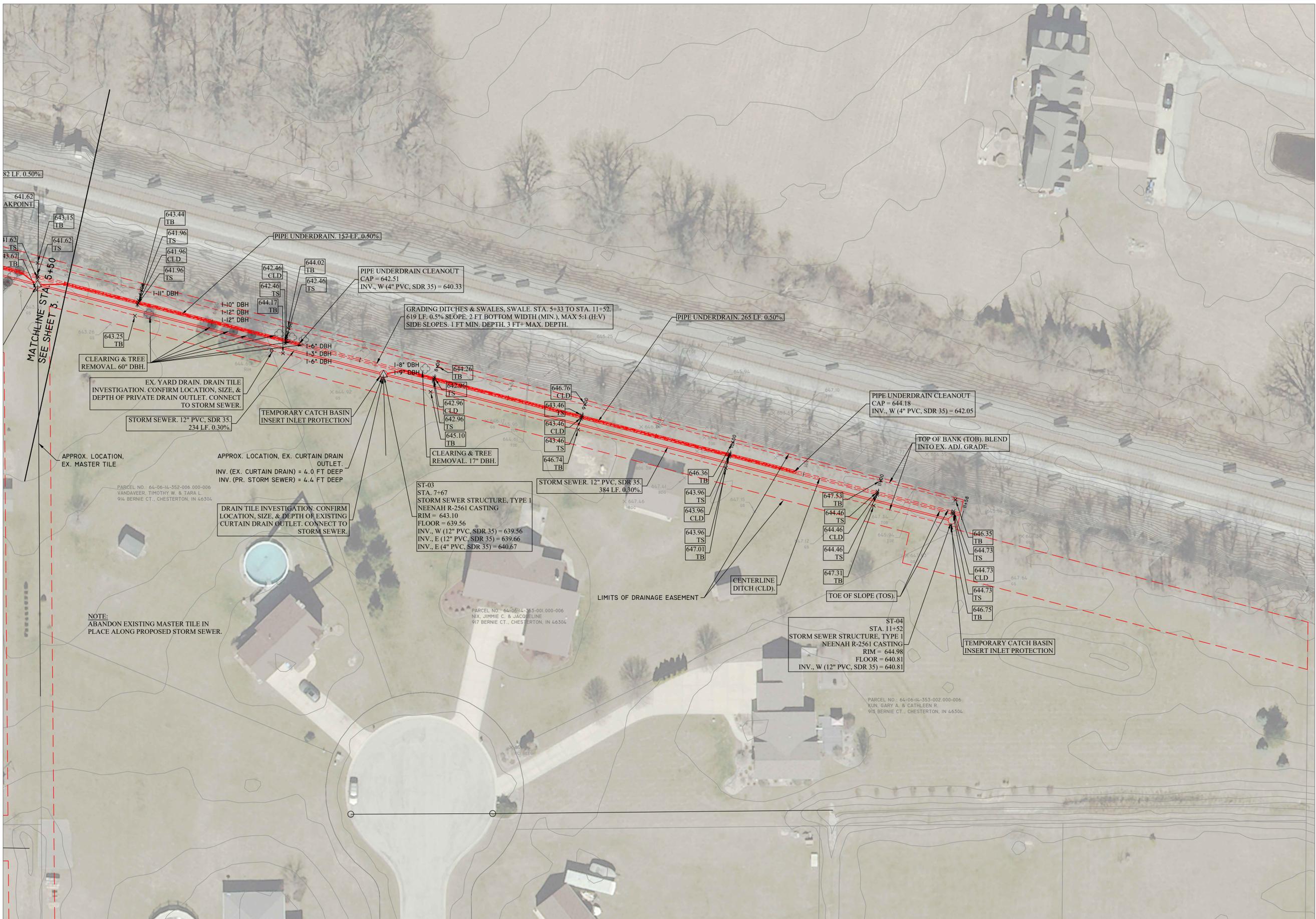
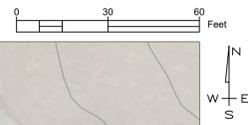


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PROJECT:	SADDLEBROOK SUBD. - SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 3-PLAN STA. 0+00 TO STA. 5+50



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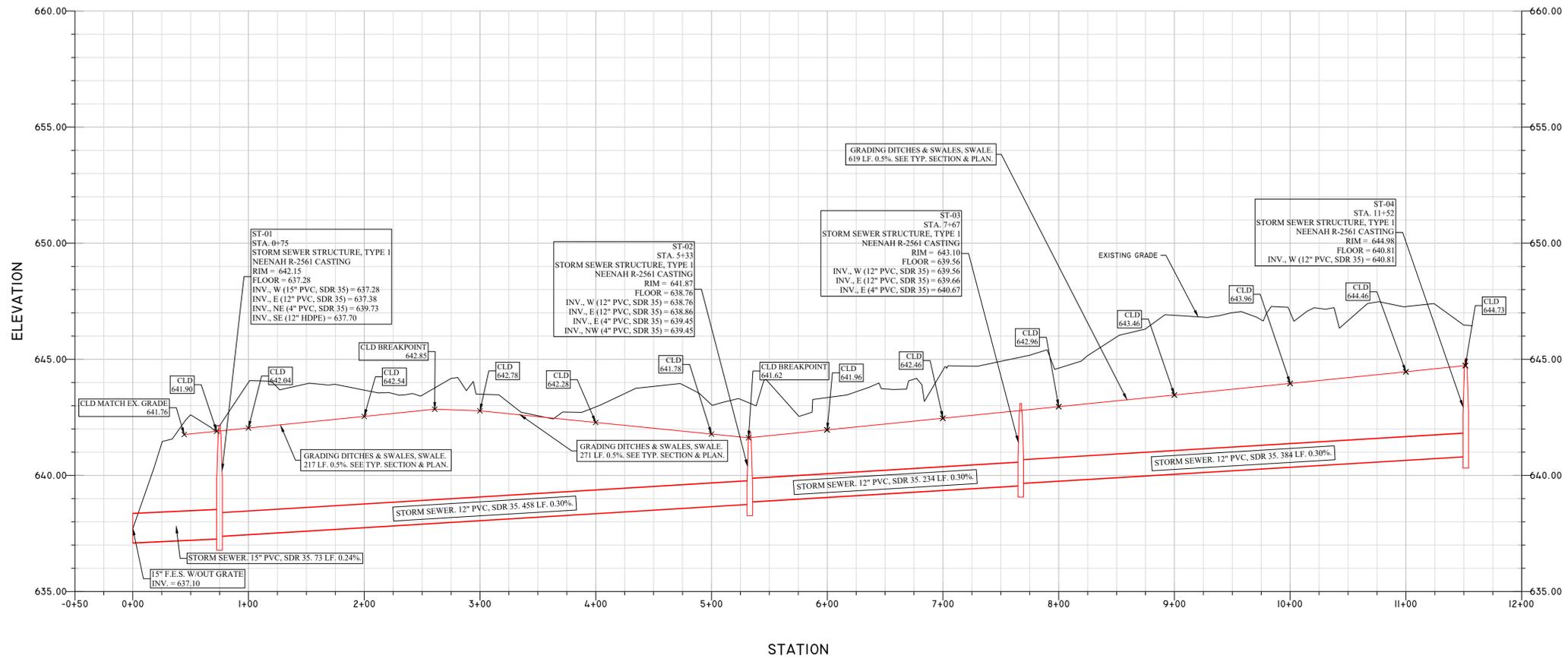
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Porter County, Indiana

PROJECT:	SADDLEBROOK SUBD. -SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 4-PLAN STA. 5+50 TO STA. 11+50

PROFILE VIEW OF SADDLEBROOK SWM IMPROVEMENTS



SADDLEBROOK STORM SEWER STRUCTURE SCHEDULE								
STRUCTURE NO.	STATION	DIAMETER (FT)	NORTHING	EASTING	RIM ELEV.	FLOOR ELEV.	PIPE IN, INVERT(S) AND ANGLE(S) (FROM OUT)	CASTINGS
ST-01	0+75	4	2301903.91	2952348.05	642.15	637.28	W (15" PVC, SDR 35) 637.28 E (12" PVC, SDR 35) 637.38, 199° NE (4" PVC, SDR 35) 639.73, 152° SE (12" HDPE) 637.70, 246°	NEENAH R-2561 CASTING
ST-02	5+33	4	2301789.02	2952791.58	641.87	638.76	W (12" PVC, SDR 35) 638.76 E (12" PVC, SDR 35) 638.86, 180° E (4" PVC, SDR 35) 639.45, 165° NW (4" PVC, SDR 35) 639.45, 22°	NEENAH R-2561 CASTING
ST-03	7+67	4	2301730.52	2953018.23	643.10	639.56	W (12" PVC, SDR 35) 639.56 E (12" PVC, SDR 35) 639.66, 180° E (4" PVC, SDR 35) 640.67, 155°	NEENAH R-2561 CASTING
ST-04	11+52	4	2301634.92	2953390.65	644.98	640.81	N/A	NEENAH R-2561 CASTING

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PROJECT:	SADDLEBROOK SUBD. - SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 5-PROFILE & STORM SEWER STRUCTURE SCHEDULE

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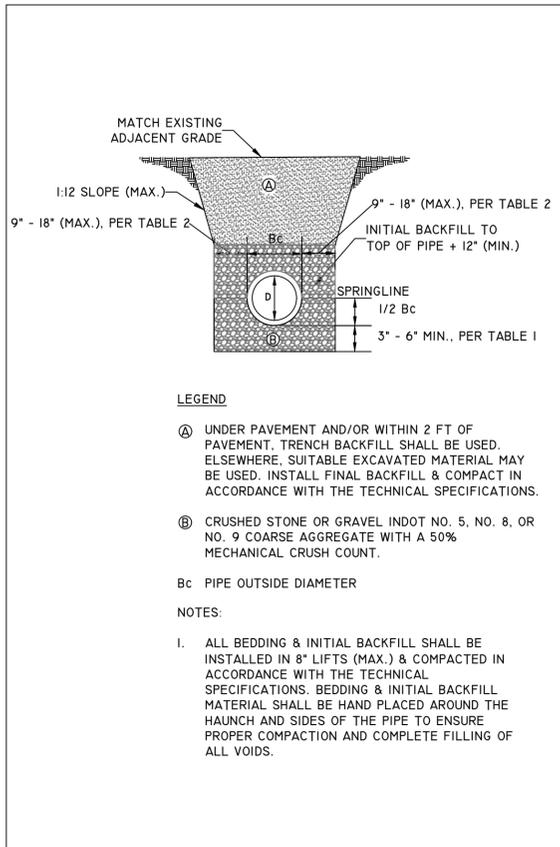


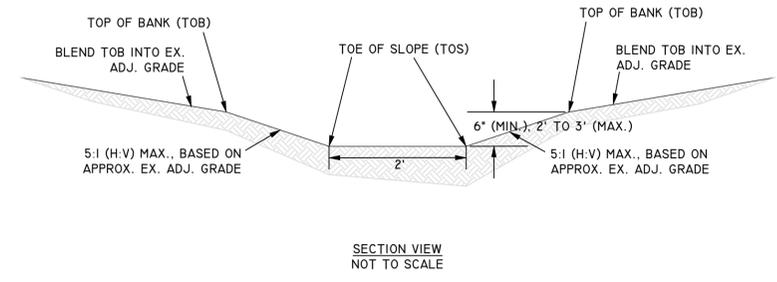
TABLE 1

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

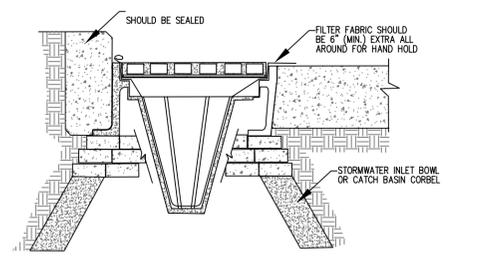


NOTES:

1. RESTORE DISTURBED AREA WITHIN SWALE AS FOLLOWS:

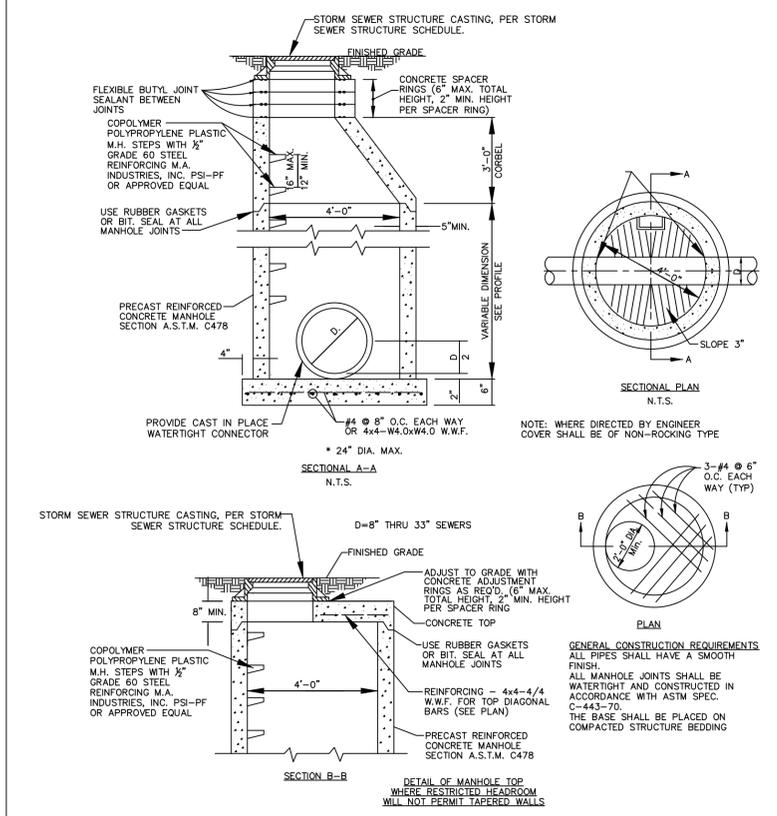
A. WITHIN SWALE (TOB TO TOS): RESTORE DISTURBED AREA WITH TOPSOIL, FERTILIZER, GRASS SEED, & EROSION CONTROL BLANKET (NAG S75BN), PER TECHNICAL SPECIFICATIONS.

DOWNSTREAM SWALE

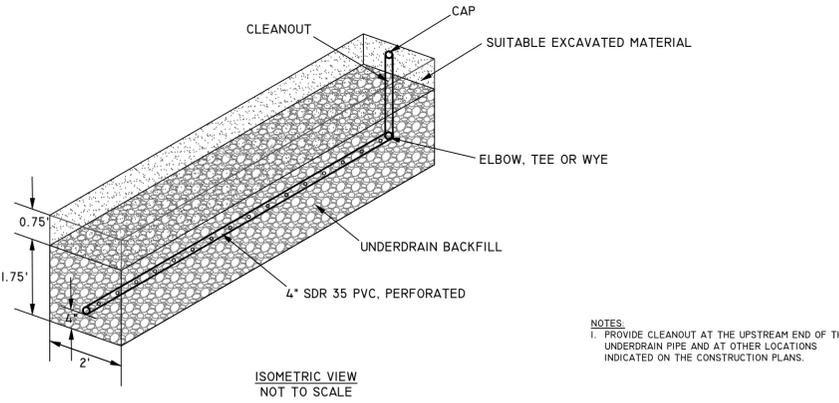


- PURPOSE:**
1. TO PREVENT EXCESSIVE SEDIMENT FROM ENTERING STORM SEWERS AT CURB INLETS, ALLOWING FULL USE OF THE STORM DRAIN SYSTEM DURING THE CONSTRUCTION PERIOD.
- REQUIREMENTS:**
1. BASKET: FABRICATED METAL WITH TOP WIDTH-LENGTH DIMENSIONS SUCH THAT THE BASKET FITS INTO THE INLET WITHOUT CAPS, AND 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 BEGIN 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 18" 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

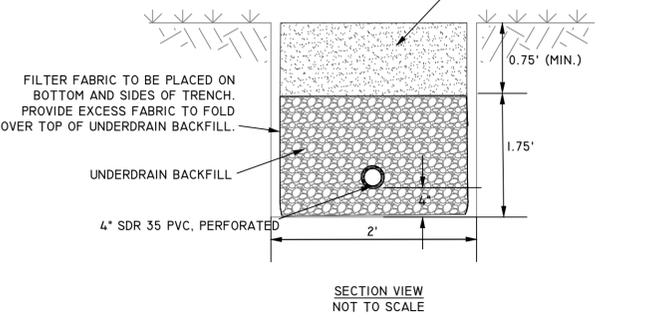


STORM SEWER STRUCTURE, TYPE 1



NOTES:

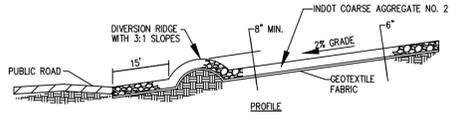
1. PROVIDE CLEANOUT AT THE UPSTREAM END OF THE UNDERDRAIN PIPE AND AT OTHER LOCATIONS INDICATED ON THE CONSTRUCTION PLANS.



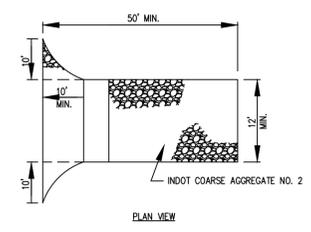
PIPE UNDERDRAIN

- REQUIREMENTS:**
- MATERIAL: 1-2.5 IN. WASHED STONE (INDOT CA NO. 2) OVER A STABLE FOUNDATION. THICKNESS: 6 IN. MINIMUM.
- WIDTH: 12 FT. MINIMUM OR FULL WIDTH OF ENTRANCE/EXIT ROADWAY, WHICHEVER IS GREATER.
- LENGTH: 50 FT. MINIMUM. THE LENGTH CAN BE SHORTER FOR SMALL SITES SUCH AS FOR AN INDIVIDUAL HOME, BUT SHALL BE OF SUFFICIENT LENGTH TO PREVENT TRACKING.
- WASHING FACILITY (OPTIONAL): LEVEL AREA WITH 3 IN. WASHED STONE MINIMUM OR A COMMERCIAL RACK, AND WASTE WATER DIVERTED TO A SEDIMENT TRAP OR BASIN.
- GEOTEXTILE FABRIC UNDERLAYER: REQUIRED TO PROVIDE GREATER BEARING STRENGTH.

- INSTALLATION:**
1. AVOID LOCATING ON STEEP SLOPES OR AT CURVES IN PUBLIC ROADS.
 2. REMOVE ALL VEGETATION AND OTHER OBJECTIONABLE 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 (RIDGE) WITH 3:1 SLOPES ACROSS THE FOUNDATION AREA ABOUT 15 FT. FROM THE ENTRANCE TO DIVERT RUNOFF AWAY FROM THE ROAD (SEE PROFILE).
 4. INSTALL PIPE UNDER THE PAD IF NEEDED TO MAINTAIN PROPER PUBLIC ROAD DRAINAGE.
 5. PLACE STONE TO DIMENSIONS AND GRADE SHOWN IN THE EROSION/SEDIMENT CONTROL PLAN, LEAVING THE SURFACE SMOOTH AND SLOPED FOR DRAINAGE.
 6. DIVERT ALL SURFACE RUNOFF AND DRAINAGE FROM THE STONE PAD TO A SEDIMENT TRAP OR BASIN.



- MAINTENANCE:**
- INSPECT ENTRANCE PAD, SEDIMENT DISPOSAL AREA, AND ALL OTHER EROSION CONTROL MEASURES WEEKLY AND AFTER STORM EVENTS OR HEAVY USE. REQUIRED REPAIRS SHOULD BE COMPLETED IMMEDIATELY.
 - RESHAPE PAD AS NEEDED FOR DRAINAGE AND RUNOFF CONTROL.
 - TOPRESS WITH CLEAN STONE AS NEEDED.
 - 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 TRAP OR BASIN.
 - REPAIR ANY BROKEN ROAD PAVEMENT IMMEDIATELY.



TEMPORARY CONSTRUCTION ENTRANCE

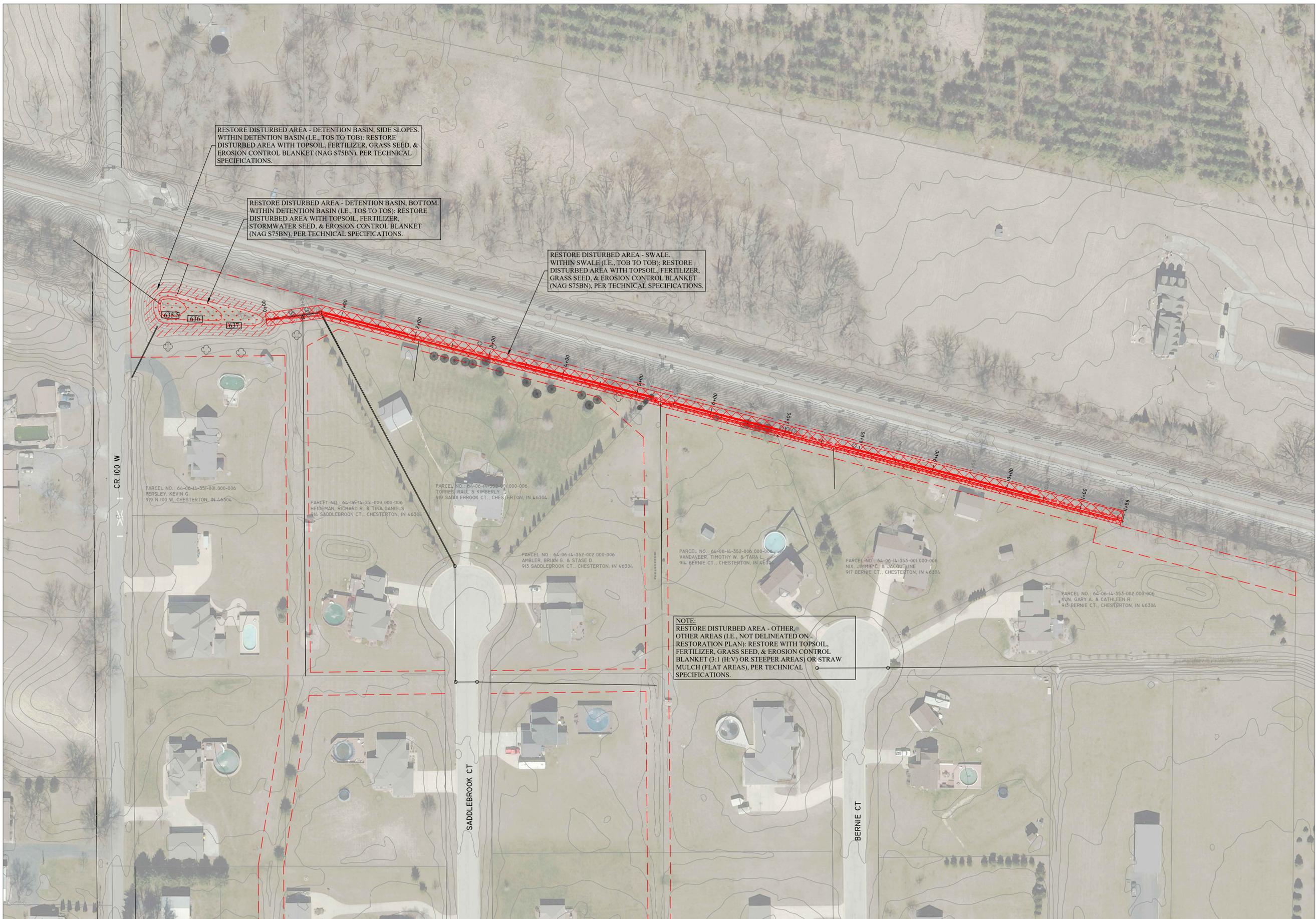
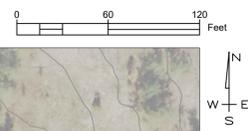
BY:	CRG
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The Department of
DEVELOPMENT & STORM WATER MANAGEMENT
Porter County, Indiana

PROJECT:	SADDLEBROOK SUBD. - SWM SYSTEM IMPROVEMENTS
LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 6-DETAILS

SHEET NO.: 6 OF 7



RESTORE DISTURBED AREA - DETENTION BASIN, SIDE SLOPES. WITHIN DETENTION BASIN (I.E., TOB TO TOB); RESTORE DISTURBED AREA WITH TOPSOIL, FERTILIZER, GRASS SEED, & EROSION CONTROL BLANKET (NAG S75BN), PER TECHNICAL SPECIFICATIONS.

RESTORE DISTURBED AREA - DETENTION BASIN, BOTTOM. WITHIN DETENTION BASIN (I.E., TOB TO TOB); RESTORE DISTURBED AREA WITH TOPSOIL, FERTILIZER, STORMWATER SEED, & EROSION CONTROL BLANKET (NAG S75BN), PER TECHNICAL SPECIFICATIONS.

RESTORE DISTURBED AREA - SWALE. WITHIN SWALE (I.E., TOB TO TOB); RESTORE DISTURBED AREA WITH TOPSOIL, FERTILIZER, GRASS SEED, & EROSION CONTROL BLANKET (NAG S75BN), PER TECHNICAL SPECIFICATIONS.

NOTE:
RESTORE DISTURBED AREA - OTHER, OTHER AREAS (I.E., NOT DELINEATED ON RESTORATION PLAN); RESTORE WITH TOPSOIL, FERTILIZER, GRASS SEED, & EROSION CONTROL BLANKET (3:1 (H:V) OR STEEPER AREAS) OR STRAW MULCH (FLAT AREAS), PER TECHNICAL SPECIFICATIONS.

PARCEL NO. 64-06-14-351-001-000-006
PERSLEY, KEVIN G.
919 N 100 W, CHESTERTON, IN 46304

PARCEL NO. 64-06-14-351-009-000-006
HEIDEMAN, RICHARD R. & TINA DANIELS
914 SADDLEBROOK CT., CHESTERTON, IN 46304

PARCEL NO. 64-06-14-352-001-000-006
TORRES, RAUL & KIMBERLY
919 SADDLEBROOK CT., CHESTERTON, IN 46304

PARCEL NO. 64-06-14-352-002-000-006
AMBLER, BRIAN G. & STASE D.
913 SADDLEBROOK CT., CHESTERTON, IN 46304

PARCEL NO. 64-06-14-352-006-000-006
VANDAVEER, TIMOTHY W. & TARA L.
914 BERNIE CT., CHESTERTON, IN 46304

PARCEL NO. 64-06-14-353-001-000-006
NIX, JIMMIE C. & JACQUELINE
917 BERNIE CT., CHESTERTON, IN 46304

PARCEL NO. 64-06-14-353-002-000-006
KUN, GARY A. & CATHLEEN R.
913 BERNIE CT., CHESTERTON, IN 46304

CR 100 W

SADDLEBROOK CT

BERNIE CT

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LOCATION:	SADDLEBROOK SUBDIVISION
SHEET TITLE:	SHEET 7-RESTORATION PLAN

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