

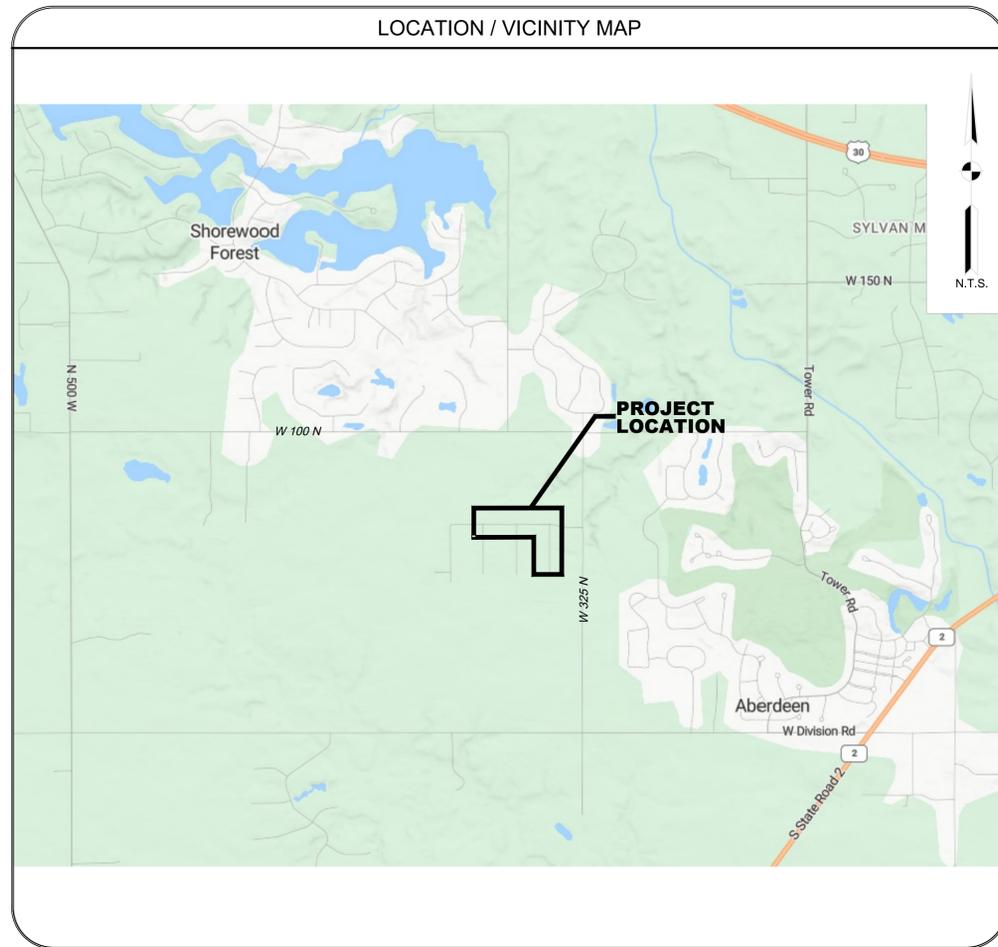
PORTER COUNTY STORM WATER

ROLLING MEADOWS SUBDIVISION

STORM WATER MANAGEMENT IMPROVEMENTS - PHASE 1

CBBEL PROJECT NO. 24-0054.00000

INDEX	
1	COVER SHEET
2	TYPICAL SECTIONS
3	ALIGNMENT, TIES, AND BENCHMARKS
4	STORM SEWER MASTER PLAN
5-7	EXISTING CONDITIONS AND REMOVALS
8-10	PLAN AND PROFILE - LARGURA DRIVE
11	PLAN AND PROFILE - ANGELICA COURT
12-14	INTERSECTION DETAILS
15-17	SWPPP PLAN
18	SWPPP DETAILS
19	STRUCTURE DATA TABLE
20-21	CONSTRUCTION DETAILS



- PORTER COUNTY STANDARDS
- PIPE BEDDING AND BACKFILL
 - ROLLED CURB AND GUTTER
 - WARP PATTERN CURB AND GUTTER INTO CASTING
 - ROAD CUT AND REPAIR
 - UNDERDRAIN TYPICAL SECTION
 - CONCRETE END SECTIONS
 - INLET TYPE 1
 - RESIDENTIAL DRIVEWAY APPROACH
 - STORM MANHOLE TYPE 1
 - STORM MANHOLE TYPE 2
 - STORM MANHOLE TYPE 2 (RESTRICTED HEADROOM)

LOCATION

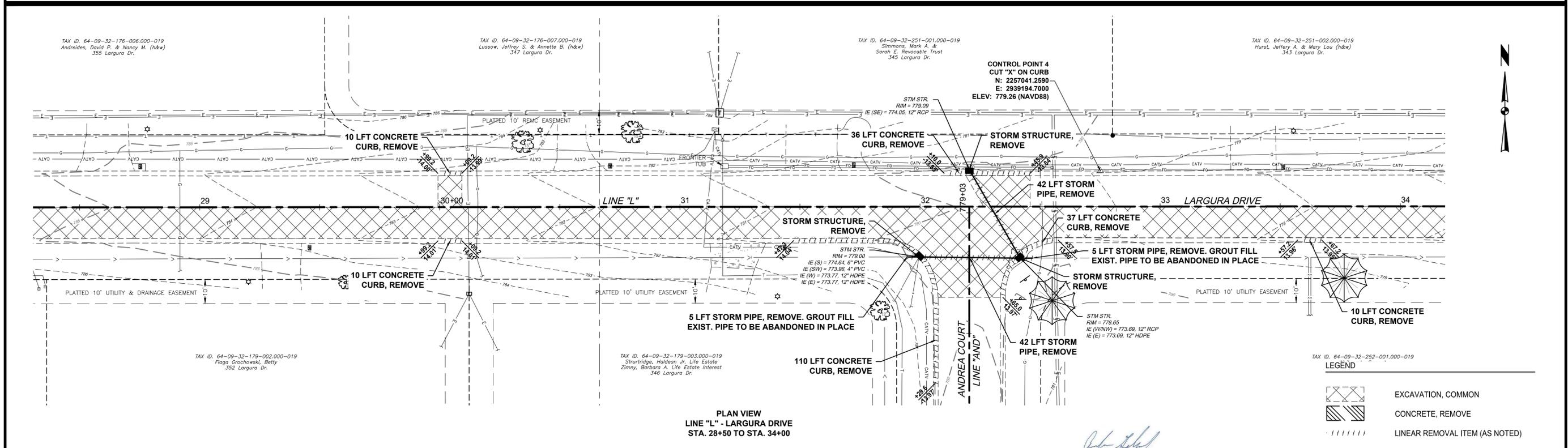
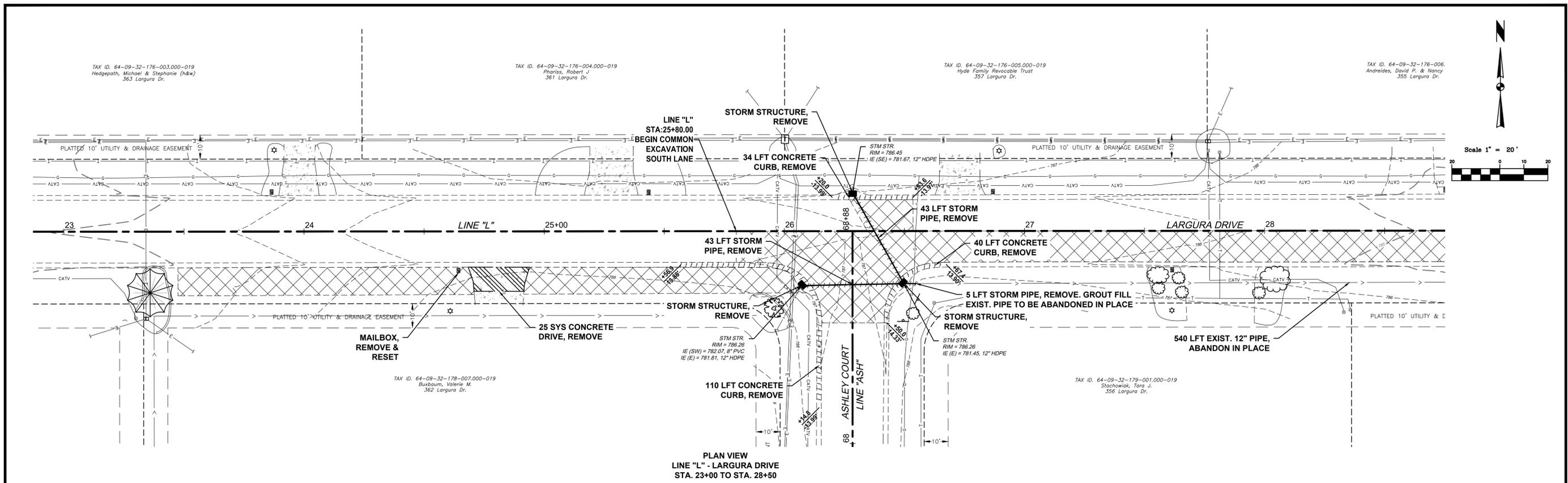
THIS PROJECT IS LOCATED IN THE ROLLING MEADOWS SUBDIVISION IN PORTER COUNTY, INDIANA.

WITH THE FOLLOWING:
 COUNTY PORTER
 CITY-TOWNSHIP VALPARAISO UNION
 48 HOURS BEFORE YOU DIG.
EXCLUDING SAT., SUN., & HOLIDAYS

THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR JOB SITE SAFETY AS WELL AS SUPERVISION/DIRECTION AND MEANS/METHODS OF CONSTRUCTION

ANDREW K. GEBHARD, P.E.
 ENGINEER
 03/06/2026
 DATE
Andrew K. Gebhard
 INDIANA REGISTRATION NO. PE11600344
 EXPIRATION DATE: 07/31/2026

CHRISTOPHER B. BURKE
 ENGINEERING, LLC.
 220 West Colfax Avenue, Suite 700
 South Bend, IN 46601
 (574) 282-8001 Fax (574) 282-8003



- LEGEND**
- EXCAVATION, COMMON
 - CONCRETE, REMOVE
 - LINEAR REMOVAL ITEM (AS NOTED)

CB BURKE
CHRISTOPHER B. BURKE ENGINEERING, LLC
 220 West Colfax Avenue, Suite 700
 South Bend, Indiana 46601
 (574) 282-8001

PORTER COUNTY STORM WATER
 155 INDIANA AVENUE, STE. 311
 VALPARAISO, IN 46383
 PHONE: (219) 465-3530
 FAX: (219) 465-3543

NO.	DATE	NATURE OF REVISION

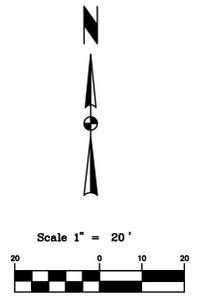
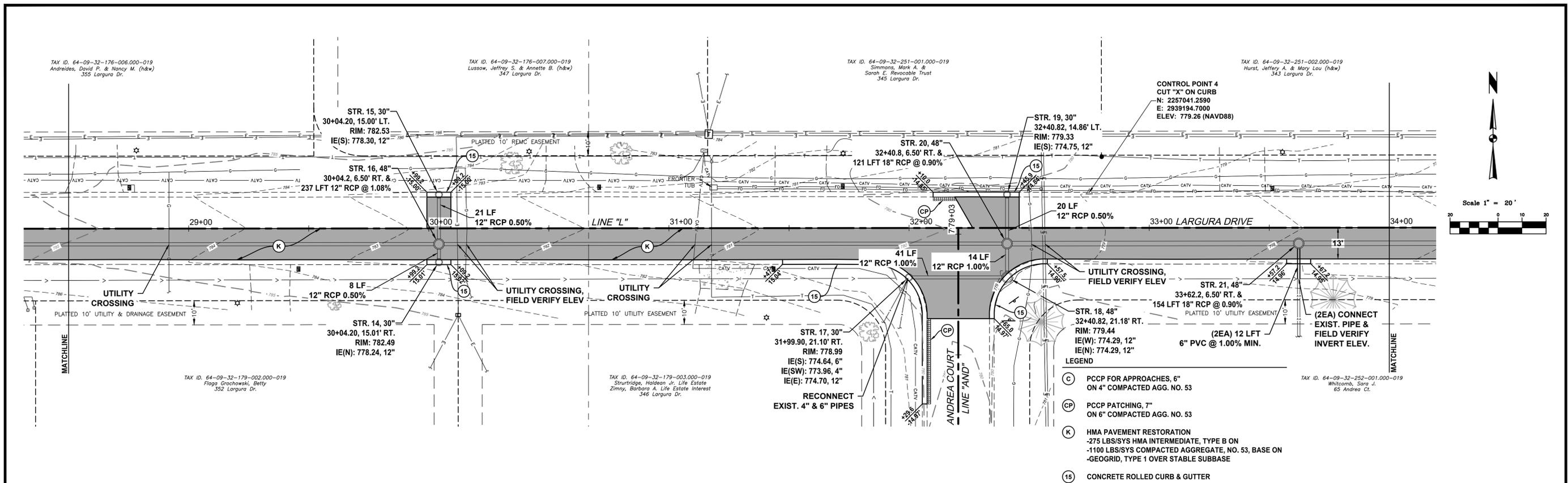
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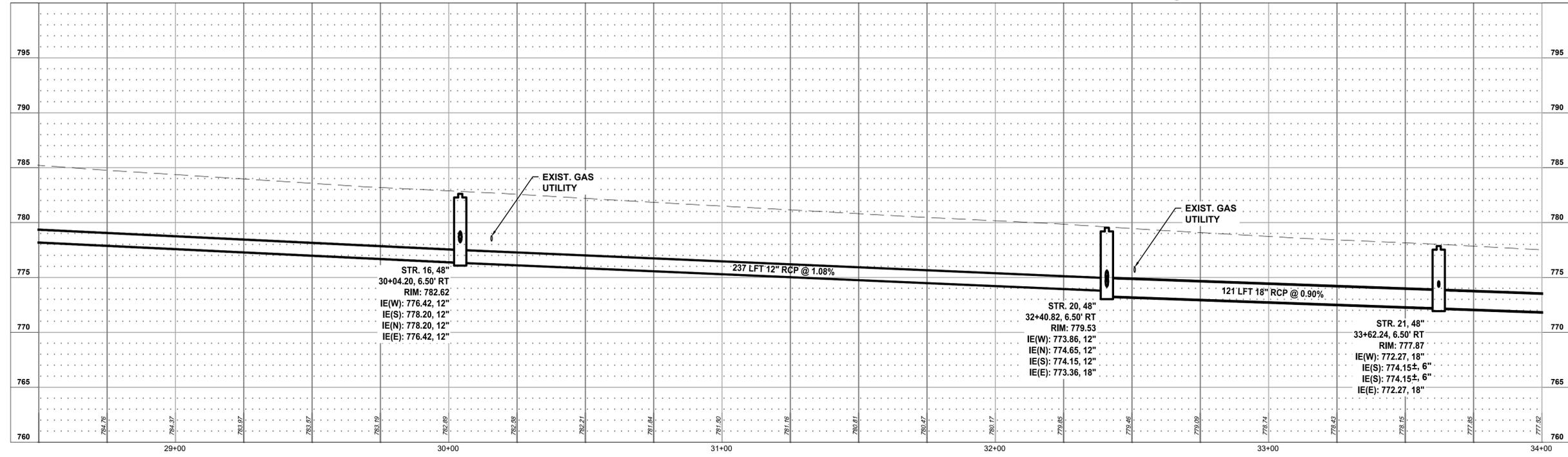
REGISTERED PROFESSIONAL ENGINEER
 ANDREW K. GERBARD
 No. PE11600344
 STATE OF INDIANA

TITLE: **EXISTING CONDITIONS
 LINE "L" - LARGURA DRIVE
 STA. 23+00 TO STA. 34+00**

PROJ. NO. 24-0054.00000
 DATE: 03/06/2026
 SHEET 5 OF 21
 DRAWING NO. **5**

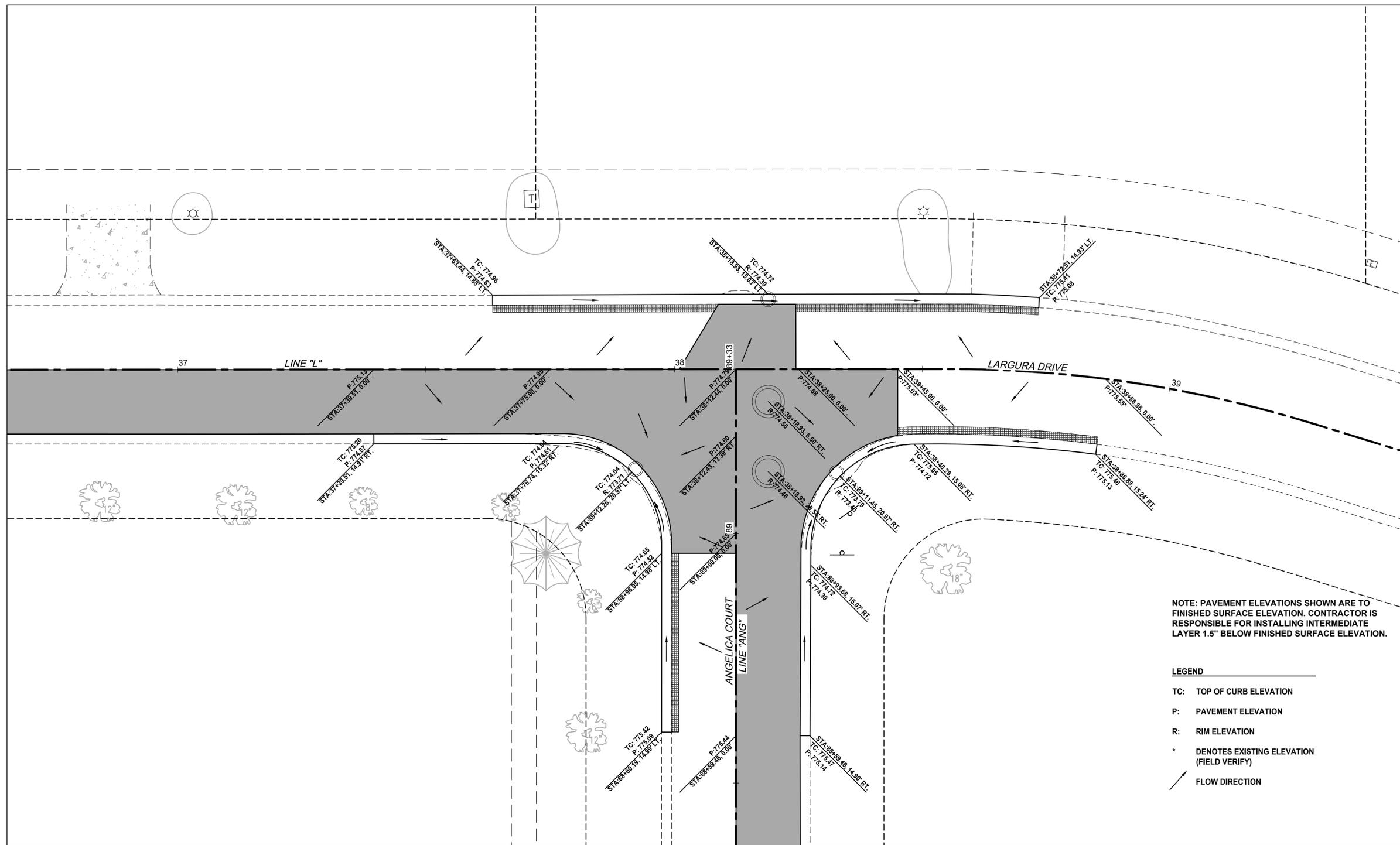
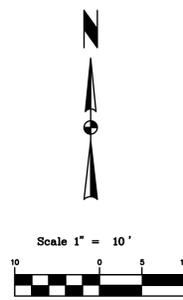


- LEGEND**
- (C) PCCP FOR APPROACHES, 6" ON 4" COMPACTED AGG. NO. 53
 - (CP) PCCP PATCHING, 7" ON 6" COMPACTED AGG. NO. 53
 - (K) HMA PAVEMENT RESTORATION -275 LBS/SYS HMA INTERMEDIATE, TYPE B ON -1100 LBS/SYS COMPACTED AGGREGATE, NO. 53, BASE ON -GEOGRID, TYPE 1 OVER STABLE SUBBASE
 - (15) CONCRETE ROLLED CURB & GUTTER



NOTE:
 PROFILE VIEW SHOWS STORM SEWER MAIN TRUNK LINE, SEE PLAN VIEW FOR BRANCH INVERT ELEVATIONS AND PIPE LENGTHS / SLOPES.

	CHRISTOPHER B. BURKE ENGINEERING, LLC 220 West Colfax Avenue, Suite 700 South Bend, Indiana 46601 (574) 282-8001	CLIENT: PORTER COUNTY STORM WATER 155 INDIANA AVENUE, STE. 311 VALPARAISO, IN 46383 PHONE: (219) 465-3530 FAX: (219) 465-3543	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>DSGN.</td> <td>AKG</td> <td>HKK</td> </tr> <tr> <td>DWN.</td> <td>HKK</td> <td>--</td> </tr> <tr> <td>CHKD.</td> <td>AKG</td> <td>--</td> </tr> <tr> <td>SCALE:</td> <td colspan="2">1" = 20'</td> </tr> <tr> <td>PLOT DATE:</td> <td colspan="2">3/5/2026</td> </tr> <tr> <td>CAD USER:</td> <td colspan="2">hkneifel</td> </tr> <tr> <td>MODEL:</td> <td colspan="2">PLN&PRF_02</td> </tr> </table>	DSGN.	AKG	HKK	DWN.	HKK	--	CHKD.	AKG	--	SCALE:	1" = 20'		PLOT DATE:	3/5/2026		CAD USER:	hkneifel		MODEL:	PLN&PRF_02			TITLE: PLAN AND PROFILE LINE "L" - LARGURA DRIVE STA. 28+50 TO STA. 34+00	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>PROJ. NO.</td> <td>24-0054.00000</td> </tr> <tr> <td>DATE:</td> <td>03/06/2026</td> </tr> <tr> <td>SHEET</td> <td>9 OF 21</td> </tr> <tr> <td>DRAWING NO.</td> <td>9</td> </tr> </table>	PROJ. NO.	24-0054.00000	DATE:	03/06/2026	SHEET	9 OF 21	DRAWING NO.	9
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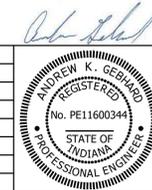
INTERSECTION DETAILS
LARGURA DRIVE AND ANGELICA COURT

CB BURKE
CHRISTOPHER B. BURKE ENGINEERING, LLC
220 West Colfax Avenue, Suite 700
South Bend, Indiana 46601
(574) 282-8001

CLIENT: **PORTER COUNTY STORM WATER**
The Department of **DEVELOPMENT & STORM WATER MANAGEMENT**
Porter County, Indiana
155 INDIANA AVENUE, STE. 311
VALPARAISO, IN 46383
PHONE: (219) 465-3530
FAX: (219) 465-3543

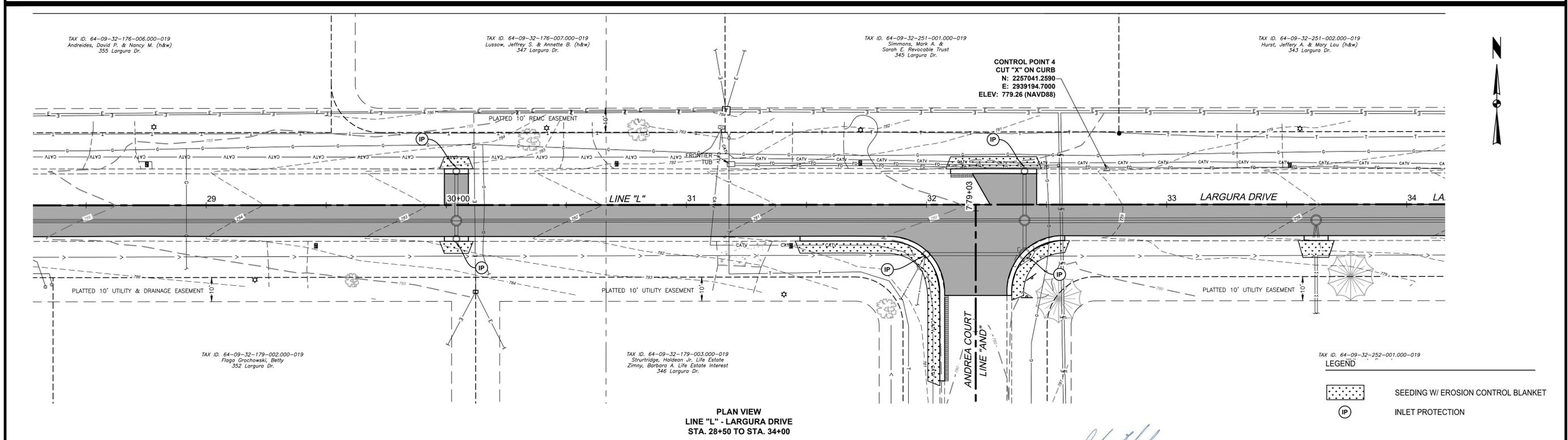
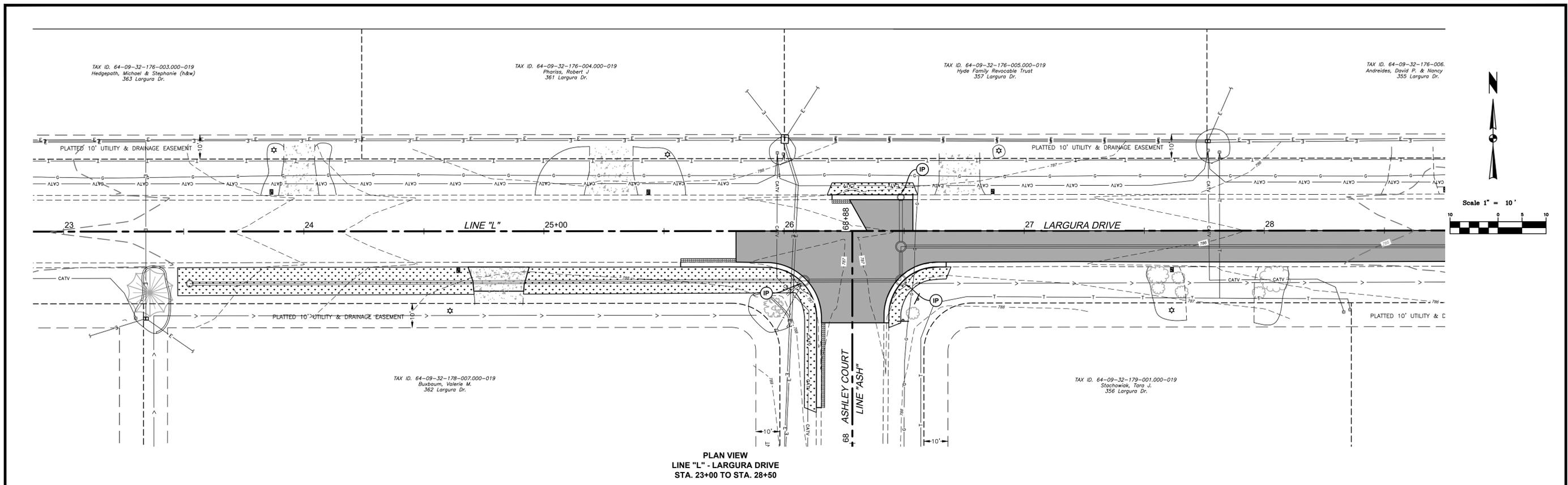
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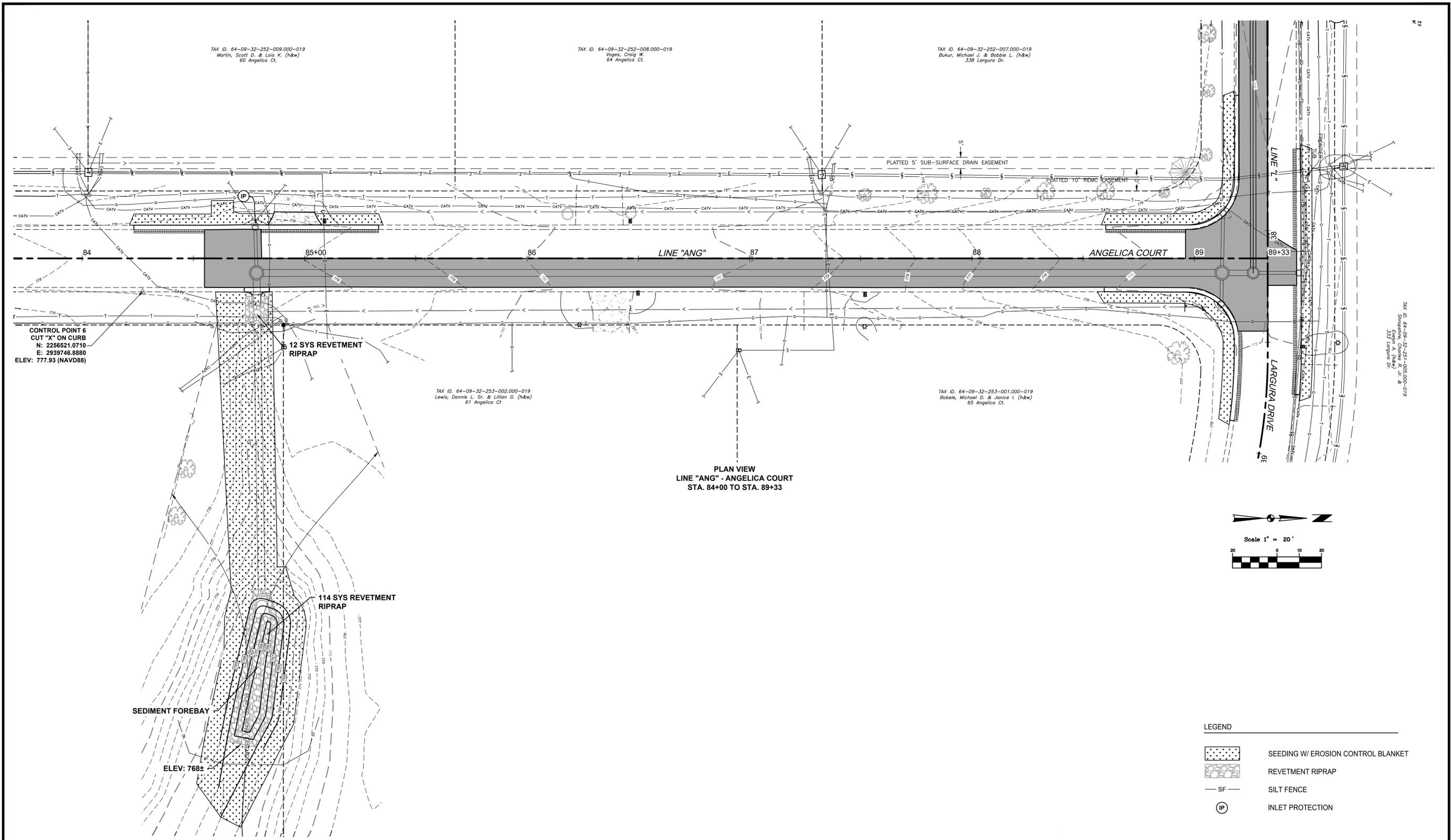


TITLE: **INTERSECTION DETAILS**
LARGURA DRIVE

PROJ. NO. 24-0054.00000
DATE: 03/06/2026
SHEET 14 OF 21
DRAWING NO. **14**



<p>CHRISTOPHER B. BURKE ENGINEERING, LLC 220 West Colfax Avenue, Suite 700 South Bend, Indiana 46601 (574) 282-8001</p>	<p>CLIENT:</p> <p>PORTER COUNTY STORM WATER</p> <p>155 INDIANA AVENUE, STE. 311 VALPARAISO, IN 46383 PHONE: (219) 465-3530 FAX: (219) 465-3543</p>	<table border="1"> <tr> <td>DSGN.</td> <td>AKG</td> <td>HKK</td> </tr> <tr> <td>DWN.</td> <td>HKK</td> <td>--</td> </tr> <tr> <td>CHKD.</td> <td>AKG</td> <td>--</td> </tr> <tr> <td>SCALE:</td> <td colspan="2">1" = 20'</td> </tr> <tr> <td>PLOT DATE:</td> <td colspan="2">3/5/2026</td> </tr> <tr> <td>CAD USER:</td> <td colspan="2">hkneifel</td> </tr> <tr> <td>MODEL:</td> <td colspan="2">SWPPP_01</td> </tr> </table>	DSGN.	AKG	HKK	DWN.	HKK	--	CHKD.	AKG	--	SCALE:	1" = 20'		PLOT DATE:	3/5/2026		CAD USER:	hkneifel		MODEL:	SWPPP_01		<p>TITLE:</p> <p>SWPPP LINE "L" - LARGURA DRIVE STA. 23+00 TO STA. 34+00</p>	<p>PROJ. NO. 24-0054.00000</p> <p>DATE: 03/06/2026</p> <p>SHEET 15 OF 21</p> <p>DRAWING NO.</p> <p>15</p>
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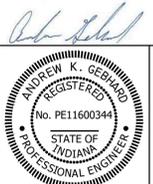
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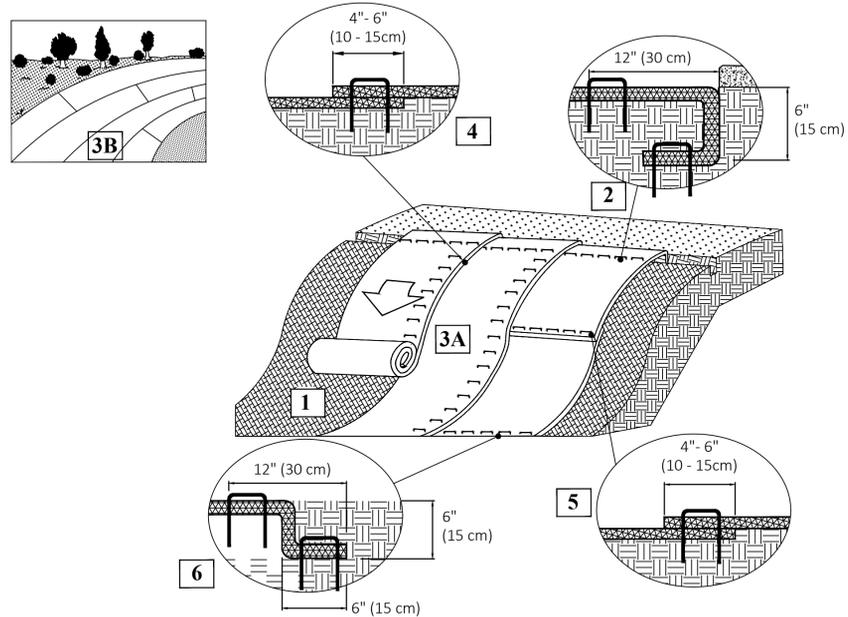


TITLE:
SWPPP
LINE "ANG" - ANGELICA COURT
STA. 84+00 TO STA. 89+33

PROJ. NO. 24-0054.00000
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 SHEET 17 OF 21
 DRAWING NO.
17

LEGEND

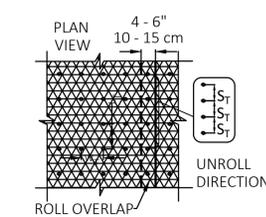
	SEEDING W/ EROSION CONTROL BLANKET
	REVETMENT RIPRAP
	SILT FENCE
	INLET PROTECTION



INSTRUCTIONS

1. PREPARE SOIL BEFORE INSTALLING ROLLED EROSION CONTROL PRODUCTS (RECPs), INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. GROUND SURFACE MUST BE FREE OF DEBRIS, ROCKS, CLAY CLOUDS AND RAKED SMOOTH SUFFICIENT TO ALLOW INTIMATE CONTACT OF THE RECP WITH THE SOIL OVER THE ENTIRETY OF THE INSTALLATION.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE RECPs IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH. ANCHOR THE RECPs WITH A ROW OF STAPLES/STAKES SPACED AT S₁ ALONG THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING AND FOLD THE ROLL OVER DOWNSLOPE. SECURE RECPs OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED AT S₂ APART ACROSS THE WIDTH OF THE RECPs.
3. ROLL THE RECPs (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. RECPs WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL RECPs MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. ROLLMAX RECPs AND ECBS SHOULD UTILIZE STAPLE PATTERN C, TRMS AND VMAX MATERIALS SHOULD UTILIZE STAPLE PATTERN D.
4. THE EDGES OF PARALLEL RECPs MUST BE STAPLED WITH APPROXIMATELY 4" - 6" (10 - 15 CM) OVERLAP.
5. CONSECUTIVE RECPs SPICED DOWN THE SLOPE MUST OVERLAPPED WITH THE UPSTREAM MAT ATOP THE DOWNSTREAM MAT (SHINGLE STYLE). THE OVERLAP SHOULD BE 4" - 6" (10 - 15 CM).
6. AT THE TERMINAL END, SECURE EACH MAT ACROSS THE WIDTH WITH A ROW OF STAPLES/STAKES SPACED AT S_T. IF EXPOSED TO FLOW, FOOT TRAFFIC, WIND UPLIFT OR OTHER DISRUPTION, TRENCH THE TERMINAL END IN AS SHOWN IN DETAIL.
7. FASTENERS SHOULD PROVIDE A MINIMUM OF TWENTY POUNDS OF PULLOUT RESISTANCE. SIX-INCH (10 CM) X ONE-INCH (2.5 CM) ELEVEN GAUGE STAPLES ARE TYPICALLY ADEQUATE. IN LOOSE SOILS, LONGER STAPLES MAY BE NECESSARY, TWIST PINS CAN PROVIDE THE GREATEST PULLOUT RESISTANCE. IN HARD OR ROCKY SOILS, STRAIGHT PINS MAY BE USED WHERE STAPLES OR TWIST PINS ARE REFUSED, PROVIDED THE MINIMUM PULLOUT REQUIREMENTS ARE MET.

STAPLE PATTERN GUIDE



- PIN / STAPLE / TWIST PIN, AS APPROPRIATE FOR FIELD CONDITIONS

DIMENSION	STAPLE PATTERN	
	C	D
W _T	30" (75 cm)	22" (55 cm)
L _T	30" (75 cm)	22" (55 cm)
S _T	18" (45 cm)	18" (45 cm)
NOMINAL FREQUENCY	1.7 / SY	3.0 / SY

*NOTE: STAPLE PATTERN A AND B USED PRIOR TO 8/2019 HAS BEEN DISCONTINUED.

EROSION CONTROL BLANKET

DETAIL SOURCE: NORTH AMERICAN GREEN
NOT TO SCALE

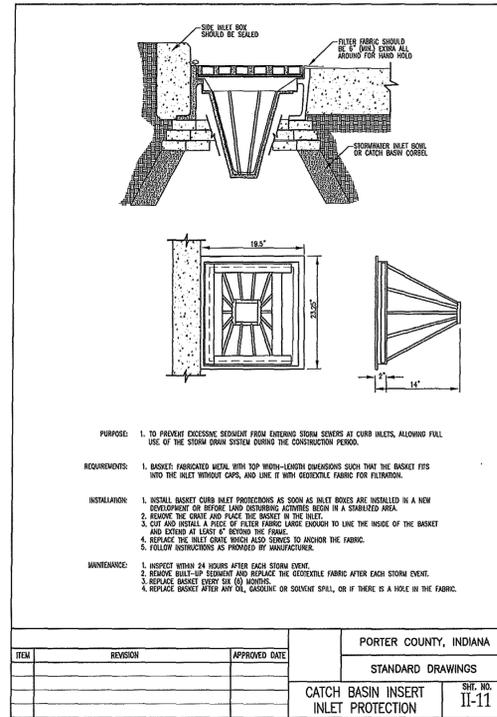
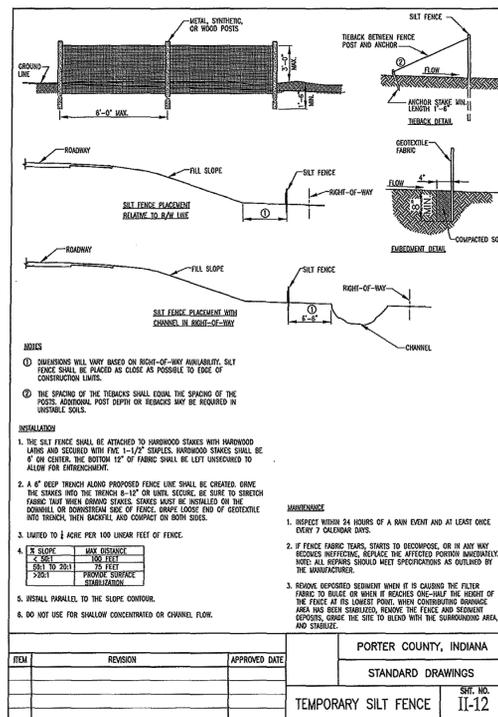


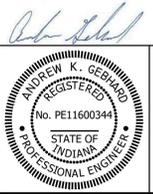
TABLE 1 - TEMPORARY SEEDING SPECIFICATIONS			
SEED SPECIES	RATE PER ACRE	PLANTING DEPTH	OPTIMUM DATES
WHEAT OR RYE	100 LBS	1 TO 1 1/2 INCHES	SEPT 15 - OCT 30
SPRING GRASS	100 LBS	1 HIGH	MARCH 1 - APRIL 10
ANNUAL RECREAS	40 LBS	1/2 HIGH	MARCH 1 - MAY 1
ORCHARD MALET	40 LBS	1 TO 2 INCHES	MAY 1 - JUNE 1
SHRUBBERIES	35 LBS	1 TO 2 INCHES	MAY 1 - JULY 30
BROCKWORTH	60 LBS	1 TO 2 INCHES	APRIL 15 - JUNE 1
COCK (BROCKWORTH)	300 LBS	1 TO 2 INCHES	MAY 11 - AUG 10
SODIUM	35 LBS	1 TO 2 INCHES	MAY 1 - JULY 15

TABLE 1 - OPEN LOW MAINTENANCE AREAS (REMAINING RILE > 6 MONTHS)			
SEED MIXTURES	RATE PER ACRE PURE LIVE SEED	OPTIMUM SOIL PH	SEED PREPARATION
1. PERENNIAL RECREAS	70 LBS	5.8 TO 7.0	1. GRAZE THE SITE TO REMOVE EXCESSIVE VEGETATION.
- BLUE GRASS	20 LBS	5.8 TO 7.0	2. ADD TOPSOIL OR COMPOST BLENDS (SEE EQUIPMENT MANUALS) TO IMPROVE SOIL STRUCTURE AND FERTILITY. ADD NUTRIENT ANALYSIS.
2. PERENNIAL RECREAS	70 LBS	5.8 TO 7.0	3. APPLY SOIL AMENDMENTS AS RECOMMENDED BY THE SOIL TEST AND WORK WITH THE SUPPLIER TO OBTAIN ANALYSIS OF SOIL. IF TESTING IS NOT POSSIBLE, APPLY 400 TO 600 POUNDS PER ACRE OF 13-13-13 ANALYSIS FERTILIZER ON CONTOUR.
3. TALL FESCUE	70 LBS	5.5 TO 7.5	4. TILL THE SOIL TO OBTAIN A UNIFORM SEEDBED. USE A DISC OR BARE, ORIENTED ACROSS THE SLOPE, TO WIND THE SOIL AMENDMENTS INTO THE UPPER TWO TO FOUR INCHES OF THE SOIL.
- BLUE GRASS	20 LBS	5.5 TO 7.5	5. OPTIMUM SEEDING DATES ARE MARCH 1 TO MAY 10 AND AUGUST 10 TO SEPTEMBER 30. PERENNIAL SEEDING DATE SHOULD BE MAY 10 AND AUGUST 10 FOR BEST RESULTS. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES.
4. ORCHARD GRASS	40 LBS	5.8 TO 7.0	6. APPLY SEED AMENDMENT WITH A DRILL OR CULTIVATOR SEEDER OR BY BROADCASTING. PLANT OR COVER THE SEED IN A DEPTH OF ONE-TO-ONE AND A HALF INCHES. IF DRILLING OR BROADCASTING THE SEED, FERTILIZER SHOULD BE APPLIED TO THE SEED BED AT THE TIME OF SEEDING. FERTILIZER AND SEED CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
- BLUE GRASS	20 LBS	5.8 TO 7.0	7. JUNE 15 TO 30 SHOULD BE USED FOR SEEDING AND SHOULD BE USED FOR SEEDING. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES.
5. CORKLEWOOD	12 LBS	5.8 TO 7.0	8. APPLY SEED AMENDMENT WITH A DRILL OR CULTIVATOR SEEDER OR BY BROADCASTING. PLANT OR COVER THE SEED IN A DEPTH OF ONE-TO-ONE AND A HALF INCHES. IF DRILLING OR BROADCASTING THE SEED, FERTILIZER SHOULD BE APPLIED TO THE SEED BED AT THE TIME OF SEEDING. FERTILIZER AND SEED CAN BE APPLIED WITH THE SEED IN A SLURRY MIXTURE.
- TALL FESCUE	20 LBS	5.8 TO 7.0	9. JUNE 15 TO 30 SHOULD BE USED FOR SEEDING AND SHOULD BE USED FOR SEEDING. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES. SEEDING SHOULD BE PERFORMED ON FRESHLY EXPOSED SOIL SURFACES.

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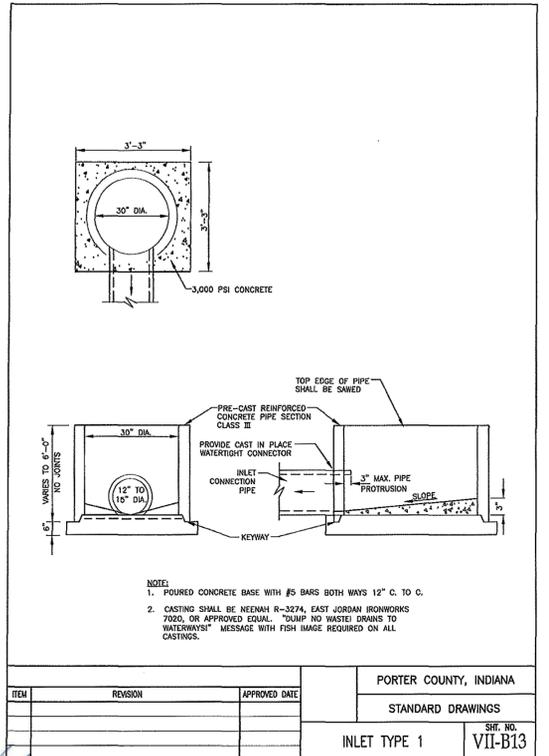
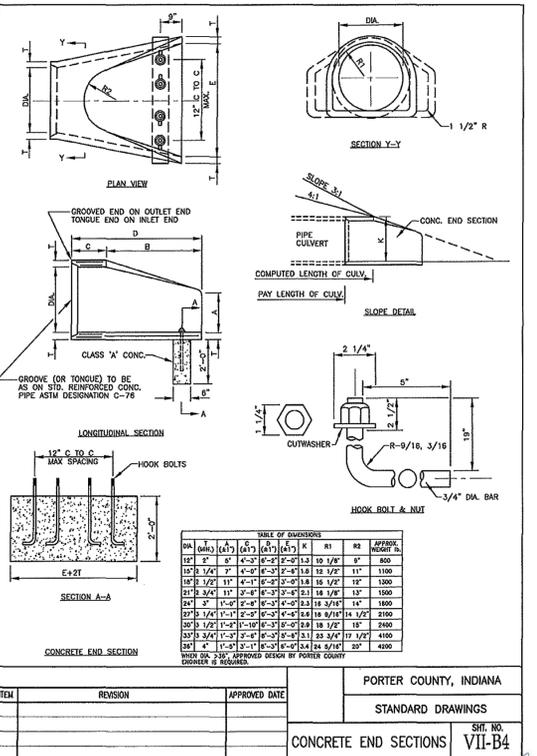
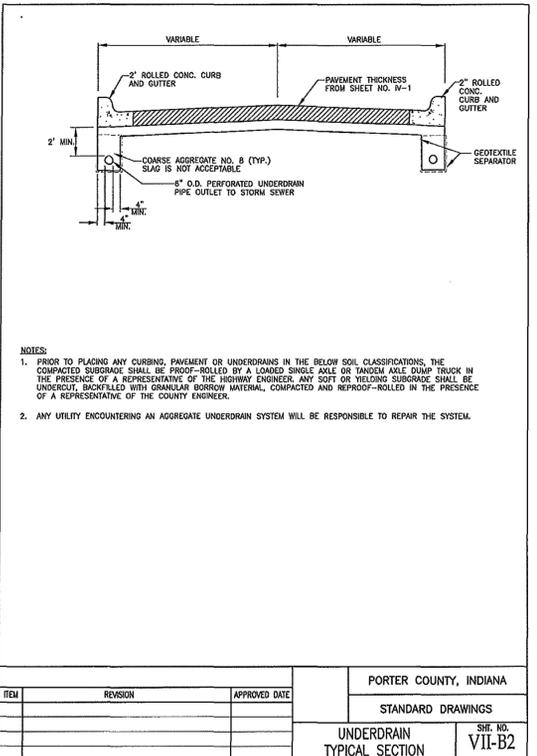
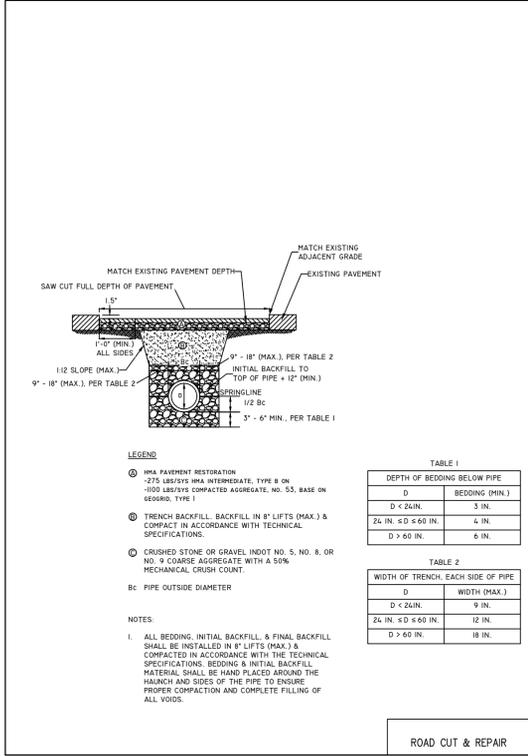
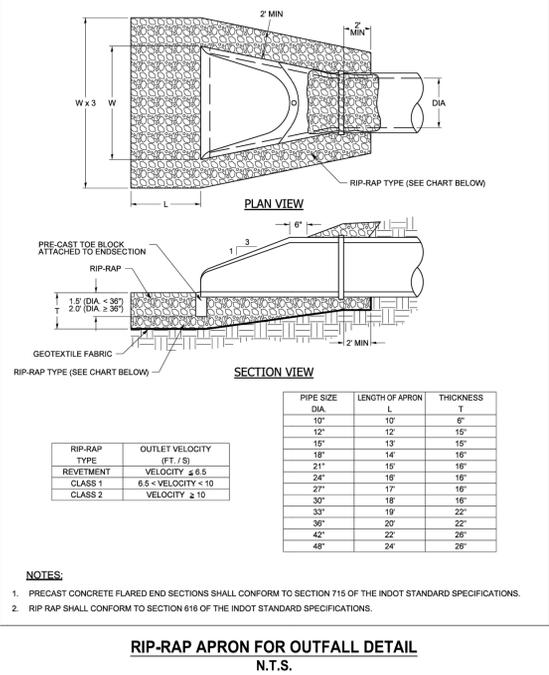
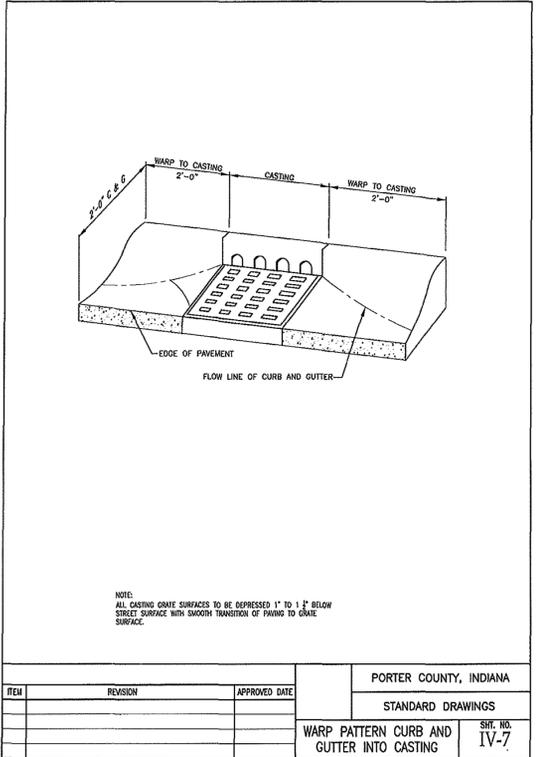
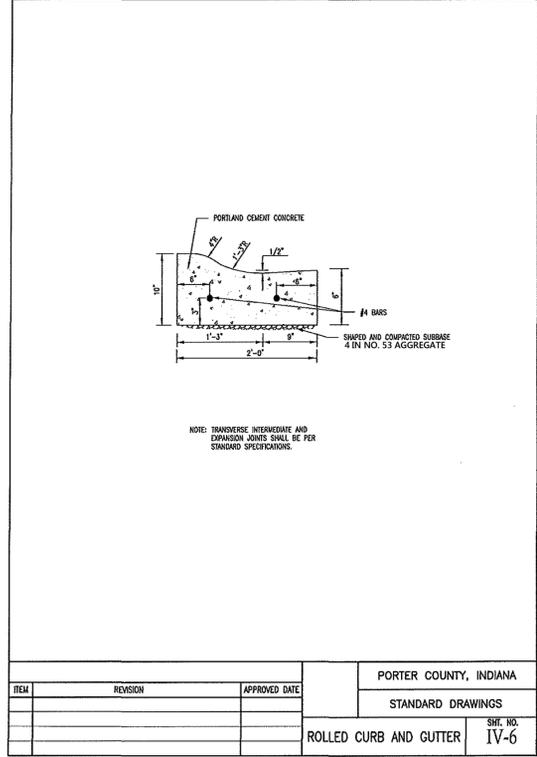
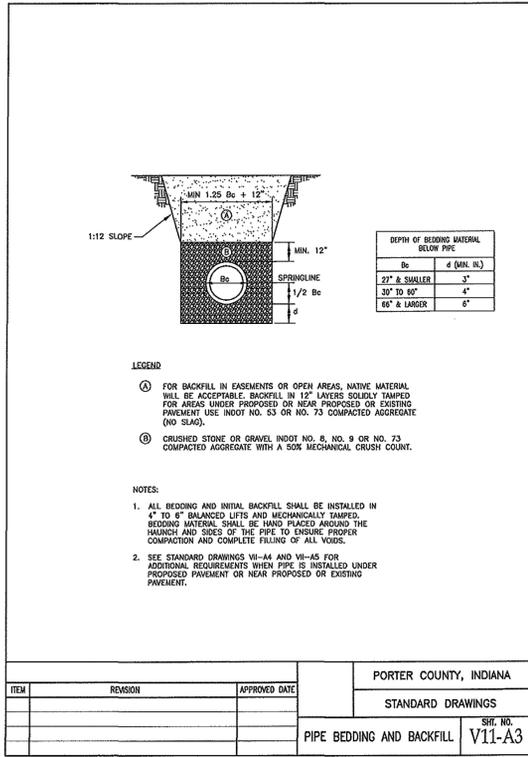
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FAX: (219) 465-3543

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TITLE: **EROSION CONTROL DETAILS**

PORTER COUNTY, INDIANA
STANDARD DRAWINGS
SEEDING TABLES - PERMANENT SEEDING
SHEET 18 OF 21
DRAWING NO. II-15



CHRISTOPHER B. BURKE ENGINEERING, LLC
 220 West Colfax Avenue, Suite 700
 South Bend, Indiana 46601
 (574) 282-8001

PORTER COUNTY STORM WATER
 155 INDIANA AVENUE, STE. 311
 VALPARAISO, IN 46383
 PHONE: (219) 465-3530
 FAX: (219) 465-3543

NO.	DATE	NATURE OF REVISION

FILE NAME: S:\2024\24-0054.00000 Porter County Rolling Meadows Phase 1\CAD\Sheet\DET_240054.dwg

ANDREW K. GERBARD
 REGISTERED PROFESSIONAL ENGINEER
 No. PE11600344
 STATE OF INDIANA

CONSTRUCTION DETAILS

PROJ. NO. 24-0054.00000
 DATE: 03/06/2026
 SHEET 20 OF 21
 DRAWING NO.
20

