TOTAL SHEETS: 28 + 2 = 30 TOTAL SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178 & 0188	21-00085-00-BT	LAKE	28	1
	ILLINOIS	CONTRACT NO. 61L52		

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

06-13-2025 LETTING ITEM 005

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FAU 0178 WILSON RD: PRAIRIE TRAIL TO VILLAGE LIMIT
FAU 0188 NIPPERSINK RD: VILLAGE LIMIT TO VALLEY LAKES BOULEVARD
ITEP BIKE PATH CONNECTION
SECTION: 21-00085-00-BT

VILLAGE OF ROUND LAKE
LAKE COUNTY

TRAFFIC DATA
WILSON ROAD
POSTED SPEED LIMIT: 45 MPH
ADT = 7,850 (2023)

NIPPERSINK ROAD
POSTED SPEED LIMIT: 35 MPH
ADT = 3,950 (2023)

FUNCTIONAL CLASSIFICATION
WILSON ROAD: MINOR ARTERIAL
NIPPERSINK ROAD: MAJOR COLLECTOR

C-91-140-25
LOCATION MAP
NOT TO SCALE

GROSS LENGTH = 2,087 FT. = 0.395 MILE
NET LENGTH = 2,087 FT. = 0.395 MILE

LOCATION OF SECTION INDICATED THUS:–

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. DESIGN STAGE REQUEST
DIG. No. A2664121 & A2664124

Call Before You Dig
JULIE ILLINOIS ONE-CALL SYSTEM

CONTACT JULIE AT 811 OR 800-892-0123 WITH THE FOLLOWING:
COUNTY = LAKE
CITY-TWNSHP. = ROUND LAKE
SEC. & 1/4 SEC. NO. = SEC 25 & SEC 26
48 HOURS (2 working days) BEFORE YOU DIG

CONTRACT NO. 61L52

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2025
javila 4/9/2025 10:30:18 AM
FILE NAME: P:\ROULK\0211656-ITEP Bike Path\CAD\Sheets\2401606_ITEP_SHT-Cover.dgn
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LCDOT NOTE

THE REVIEW AND APPROVAL OF THESE FINAL ENGINEERING PLANS AND SPECIFICATIONS BY THE LAKE COUNTY DIVISION OF TRANSPORTATION DOES NOT CONSTITUTE A RELEASE FROM OR GRANT OF VARIATION FROM THE STANDARDS AND SPECIFICATIONS REQUIRED IN THE LAKE COUNTY HIGHWAY ACCESS AND USE ORDINANCE, LATEST EDITION. THE PERMITTEE, THE PERMITTEE'S DESIGNATED REPRESENTATIVES, AND/OR ALL SUCCESSORS AND ASSIGNS SHALL BE SOLELY RESPONSIBLE FOR ALL WORK AND IMPROVEMENTS WITHIN THE LIMITS OF THE COUNTY HIGHWAY RIGHT-OF-WAY, UNLESS OTHERWISE SPECIFIED, APPROVED IN WRITING BY THE LAKE COUNTY COUNTY ENGINEER, AND ON FILE WITH THE LAKE COUNTY DIVISION OF TRANSPORTATION. ALL WORK AND MATERIALS NECESSARY TO PERFORM WORK WITHIN THE LIMITS OF THE COUNTY HIGHWAY RIGHT-OF-WAY SHALL BE IN CONFORMANCE WITH THE PROVISIONS AND REQUIREMENTS OF THE LAKE COUNTY HIGHWAY ACCESS AND USE ORDINANCE, LATEST EDITION

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED ____
VILLAGE OF ROUND LAKE REPRESENTATIVE

PASSED April 10, 2025
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID BASED ON LIMITED REVIEW April 10, 2025
REGIONAL ENGINEER

JOSEPH D. WILHELMSEN
62-70103
LICENSED PROFESSIONAL ENGINEER OF
STATE OF ILLINOIS
LICENSE EXPIRES 11-30-2025

BAXTER & WOODMAN
Consulting Engineers

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

B&W PROJECT NO.: 2401606 DATE: 4-9-2025

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, THE JANUARY 1, 2022 EDITION OF THE "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS THE "STANDARD SPECIFICATIONS"), THE JANUARY 1, 2025 EDITION OF THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", THE 11th EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS", THE JANUARY 1, 2022 EDITION OF THE "MANUAL OF TEST PROCEDURES FOR MATERIALS" AND THE 8th EDITION "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS".

2. THE LOCATIONS OF PUBLIC OR PRIVATE UTILITIES SHOWN ON THE PLANS REPRESENTS ONLY THE OPINION OF THE VILLAGE AND IS ONLY INCLUDED FOR THE CONVENIENCE OF THE BIDDER AND THE ACCURACY IS NOT GUARANTEED.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND OR SURFACE UTILITIES, INCLUDING SPRINKLER SYSTEMS, EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. THE CONTRACTOR SHALL ALSO VERIFY THE DEPTHS OF THE EXISTING UTILITIES IF NECESSARY TO VERIFY THAT GRADE CONFLICTS WILL NOT OCCUR WITH ANY PROPOSED UTILITIES PRIOR TO CONSTRUCTION AND ORDERING ANY MATERIALS. ANY RELOCATION OR LOWERING OF UTILITIES SHALL BE COORDINATED BY THE CONTRACTOR.

3. THE CONTRACTOR SHALL NOTIFY THE VILLAGE PUBLIC WORKS ADMINISTRATOR AT LEAST 48 HOURS IN ADVANCE OF BEGINNING WORK TO OBTAIN VILLAGE UTILITY LOCATIONS.

4. THE CONTRACTOR MAY OBTAIN MUNICIPAL WATER IN BULK, AT NO CHARGE, AS LONG AS THERE IS NOT A "WATERING BAN" IN EFFECT. THE INDISCRIMINATE USE OF FIRE HYDRANTS IS STRICTLY PROHIBITED. WATER FOR CONSTRUCTION SHALL BE METERED OR OTHERWISE ACCOUNTED FOR AND A DAILY LOG MAINTAINED. THE CONTRACTOR SHALL PROVIDE THE WATER TRUCK AND DRIVER REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE VILLAGE RESERVES THE RIGHT TO RESTRICT OR REFUSE THE USE OF VILLAGE WATER IF DEEMED NECESSARY.

5. ACCESS TO PRIVATE DRIVEWAYS SHALL BE PROVIDED AT ALL TIMES EXCEPT DURING ACTUAL CONSTRUCTION ADJACENT THERE TO. TEMPORARY RAMPS SHALL BE CONSTRUCTED AS NEEDED TO PROVIDE SUCH ACCESS, UTILIZING CRUSHED STONE OR CRUSHED GRAVEL.

6. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE ENGINEER, RESIDENTS AND THE VILLAGE WHEN ACCESS TO DRIVEWAYS WILL BE TEMPORARILY CLOSED DUE TO CURB AND GUTTER AND/OR DRIVEWAY REPLACEMENT. THE CONTRACTOR SHALL DISTRIBUTE NOTICES PROVIDED BY THE VILLAGE TO RESIDENTS AT LEAST 24 HOURS PRIOR TO PLANNED CLOSURE. EVERY EFFORT SHALL BE MADE TO ACCOMMODATE ACCESS TO THESE PROPERTIES INCLUDING KNOCKING ON DOORS WHEN DRIVEWAYS ARE ABOUT TO BE CLOSED.

7. THE CONTRACTOR WILL BE REQUIRED TO USE A STEEL PLATE OR PLATES TO CLOSE ANY GAPS OCCURRING WHEN A FRAME IS OFFSET FROM THE STRUCTURE. THE STEEL PLATE SHALL BE ½-INCH THICK AND APPROXIMATELY 6-INCH WIDE BY 24-INCH LONG. SOME ADJUSTMENT IN SIZE MAY BE NECESSARY TO PREVENT THE STEEL PLATE FROM OVERHANGING THE OUTSIDE OF THE STRUCTURE WALL. THE STEEL PLATE SHALL BE BEDDED IN AND COVERED WITH MORTAR.

8. THE CURB SHALL BE TAPERED TO THE GUTTER IN A FIVE (5) FOOT LENGTH WHEREVER THE CURB AND GUTTER TERMINATES, WITH AN EXPANSION JOINT PLACED AT THE START OF THE TAPER.

9. A PORTABLE BATHROOM(S) SHALL BE PLACED ON THE JOB SITE(S) AND RELOCATED WHEN NECESSARY SO IT IS ACCESSIBLE TO WORKERS. IF WORK IS OCCURRING AT SEVERAL LOCATIONS, ONE PORTABLE BATHROOM SHALL BE PLACED AT EACH LOCATION WITHIN A REASONABLE DISTANCE FROM THE WORK AS DETERMINED BY THE ENGINEER.

10. THE CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIJN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07.

11. TRENCH BACKFILL FOR THIS PROJECT SHALL CONSIST OF CRUSHED CA-7 AND SHALL BE COMPACTED BY METHOD 1 ONLY.

12. STORM STRUCTURE OFFSET LOCATIONS ARE TO THE EDGE OF PAVEMENT IF THE STRUCTURE IS IN THE CURB LINE OR TO THE CENTER OF STRUCTURE IF THE STRUCTURE IS NOT IN THE CURBLINE.

13. ALL REQUIRED CONSTRUCTION STAKING (BENCHMARK ESTABLISHMENT, ROW, SIDEWALK, UTILITY LOCATION AND ELEVATIONS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR DIMENSIONS AND ELEVATIONS MEASURED FROM CONTRACTOR'S STAKES. THE CONTRACTOR SHALL EXERCISE PROPER CARE IN THE PRESERVATION OF STAKES SET UNTIL THE ENGINEER'S APPROVAL FOR STAKE REMOVAL IS OBTAINED.

14. ALL TREE PROTECTION, TREE REMOVAL, TREE PRUNING AND ROOT PRUNING SHALL BE COMPLETED BEFORE WORK OPERATIONS COMMENCE IN ANY AREA. AT NO TIME SHALL THE CONTRACTOR PRUNE OR REMOVE ANY TREES UNLESS SPECIFICALLY DETERMINED BY THE ENGINEER.

15. TREE REMOVAL NOTICES WILL BE POSTED BY THE VILLAGE ON THE TREES TO BE REMOVED. TREE REMOVAL WORK WILL BE ALLOWED 10 DAYS AFTER POSTING OF THE TREE REMOVAL NOTICE.

16. CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HERIN.

NIPPERSINK ROAD BENCHMARKS:

#7 WEST BONNET BOLT WITH ARROW ON FIRE HYDRANT ON THE SOUTH SIDE OF NIPPERSINK ROAD APPROX. 100' EAST OF VALLEY LAKES BOULEVARD
ELEV = 778.079

#8 NORTH NORTHWEST BONNET BOLT ON FIRE HYDRANT ON THE SOUTH SIDE OF NIPPERSINK ROAD APPROX. 200' WEST OF VALLEY LAKES BOULEVARD
ELEV = 780.837

#9 SOUTH SOUTHWEST BONNET BOLT WITH ARROW ON FIRE HYDRANT ON THE SOUTH SIDE OF NIPPERSINK ROAD JUST EAST OF ADDRESS #2110
ELEV = 788.508

#10 SOUTH SOUTHWEST BONNET BOLT WITH ARROW ON FIRE HYDRANT ON THE SOUTH SIDE OF NIPPERSINK ROAD ACROSS FROM ADDRESS # 25666
ELEV = 786.213

#11 WEST SOUTHWEST BONNET BOLT WITH ARROW ON FIRE HYDRANT ON THE SOUTH SIDE OF NIPPERSINK ROAD APPROX. 1,200' WEST OF VALLEY LAKES BLVD
ELEV = 782.706

NORTH WILSON ROAD BENCHMARKS:

#5 NORTH BONNET BOLT WITH ARROW ON FIRE HYDRANT ON THE NORTH SIDE OF PRAIRIE TRAIL AT WILSON ROAD
ELEV = 790.711

#6 MINI RAILROAD SPIKE ON THE WEST SIDE OF WILSON ROAD ON THE SOUTH SIDE OF THE DRIVEWAY AT ADDRESS # 33780
ELEV = 792.126

#12 MINI RAILROAD SPIKE ON THE EAST SIDE OF WILSON ROAD APPROX. 500' SOUTH OF PRAIRIE TRAIL NEAR THE LIFT STATION
ELEV = 791.799

#13 RAILROAD SPIKE ON THE WEST SIDE OF WILSON ROAD APPROX. 1000' SOUTH OF PRAIRIE TRAIL BEHIND GUARDRAIL (EXIST RAILROAD SPIKE BY OTHERS)
ELEV = 778.522

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-12	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-05	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-07	DEPRESSED CORNER FOR SIDEWALKS
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604001-05	FRAME AND LIDS TYPE 1
604036-03	GRATE TYPE 8
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-10	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

COMMITMENTS

THE PROJECT SHALL BE RE-SEEDED IN ACCORDANCE WITH IDOT'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION WITH CLASS 5 OR 5B SEED MIX, AS APPROPRIATE, WHICH CONTAIN NATIVE FORBS AND MILKWEED.

DISTRICT ONE DETAILS

BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-36	FIRE HYDRANT TO BE MOVED
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN

LAKE COUNTY DOT GENERAL NOTES

1. THE CONSTRUCTION, INCLUDING MATERIALS USED, OF THIS IMPROVEMENT SHALL BE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF THE MOST RECENT EDITIONS OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION," "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," AND THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS," INCLUDING ALL AMENDMENTS AND SUCCESSOR DOCUMENTS TO THE AFOREMENTIONED DOCUMENTS AS PUBLISHED OR ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND/OR LCDOT UNLESS OTHERWISE STATED IN THESE ENGINEERING PLANS. .

2. THE CONSTRUCTION OF THE IMPROVEMENTS SHALL ALSO BE IN ACCORDANCE WITH THE "LAKE COUNTY HIGHWAY ACCESS AND USE ORDINANCE," LATEST EDITION.

3. THE LAKE COUNTY DIVISION OF TRANSPORTATION SHALL NOT BE HELD LIABLE FOR ANY ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS OR FOR ANY ADDITIONAL WORK, WHICH MAY BE NEEDED DUE TO ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS.

4. THE PERMITTEE SHALL BE RESPONSIBLE FOR ANY ADDITIONAL WORK, AND ALL COSTS THEREOF, REQUIRED BECAUSE OF ERRORS OR OMISSIONS IN THESE ENGINEERING PLANS AND FOR THE CORRECTION OF ANY CONSTRUCTION, MAINTENANCE, OR SAFETY PROBLEMS, WHICH BECOME APPARENT DURING CONSTRUCTION OR BY INSPECTIONS MADE BY THE RESIDENT ENGINEER OR THE LAKE COUNTY DIVISION OF TRANSPORTATION.

5. PAVEMENT SMOOTHNESS FOR BITUMINOUS PAVEMENTS
   1. THE FOLLOWING SMOOTHNESS REQUIREMENTS SHALL APPLY TO THE SURFACE COURSE:
      A. FOR MAILINE TRAFFIC LANES THE PAVEMENT SURFACE SHALL NOT VARY MORE THAN 1/8 INCH IN A 10-FOOT DISTANCE AS MEASURED ALONG THE WHEEL PATH. 2.
      B. FOR TURNING LANES, INCLUDING BY-PASS LANES, THE PAVEMENT SURFACE SHALL NOT VARY MORE THAN ¼ INCH IN A 10-FOOT DISTANCE AS MEASURED ALONG THE WHEEL PATH.
   2. IN ORDER TO SATISFY THE ABOVE SMOOTHNESS REQUIREMENTS FOR A PAVEMENT OVERLAY, THE EXISTING PAVEMENT MAY NEED LEVELING BINDER OR COLD MILLING IN ORDER TO PROVIDE A PROPER BASE FOR THE BITUMINOUS BINDER COURSE. THE RESIDENT ENGINEER SHALL DETERMINE IF LEVELING BINDER OR COLD MILLING WILL BE NECESSARY.
   3. THE LAKE COUNTY DIVISION OF TRANSPORTATION SHALL REQUIRE, AT ITS DISCRETION, THE TESTING OF THE PAVEMENT FOR SMOOTHNESS. FOR ANY SUCH TESTING, THE BITUMINOUS CONTRACTOR SHALL PROVIDE CONSTRUCTION SIGNING AND TWO FLAGGERS. A REPRESENTATIVE OF THE BITUMINOUS CONTRACTOR AND THE RESIDENT ENGINEER (OR REPRESENTATIVE) SHALL BE PRESENT DURING TESTING. ANY PAVEMENT AREAS THAT DO NOT PASS THE ABOVE SMOOTHNESS REQUIREMENTS SHALL BE REMOVED BY THE GRINDING METHOD TO A 2 INCH MINIMUM DEPTH AND RESURFACED WITH HOT-MIX ASPHALT SURFACE COURSE OF THE MIX DESIGN SPECIFIED.

FOR ACCESS PERMITS ONLY

6. THE RESIDENT ENGINEER SHALL BE RESPONSIBLE FOR ESTABLISHING THE PROPER LINES AND GRADES FOR ALL CONSTRUCTION WORK INCLUDING EARTHWORK, PAVING, CURBING AND DRAINAGE. THE RESIDENT ENGINEER SHALL ALSO BE RESPONSIBLE FOR ALL OTHER ENGINEERING WORK INCLUDING INSPECTIONS AND ANY TESTING REQUIRED BY THE LAKE COUNTY DIVISION OF TRANSPORTATION. AN INSPECTOR, AS PROVIDED OR APPROVED BY THE RESIDENT ENGINEER, SHALL BE PRESENT DURING CRITICAL PHASES OF THE CONSTRUCTION WORK.

7. THE RESIDENT ENGINEER SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE PERMIT DEPARTMENT OF THE LAKE COUNTY DIVISION OF TRANSPORTATION ABOUT ANY CHANGES THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS SUCH AS CHANGES IN DRAINAGE, GEOMETRIC PLAN, OR GRADING WORK.

8. THE LAKE COUNTY DIVISION OF TRANSPORTATION "SPECIAL CONDITIONS FOR CONSTRUCTION WITHIN A COUNTY HIGHWAY RIGHT-OF-WAY" SHALL BE INCLUDED IN THE ENGINEERING PLANS.

FOR UTILITY OR FACILITY PERMITS ONLY

9. THE PERSON IN CHARGE SHALL NOTE ANY CHANGES FROM THESE ENGINEERING PLANS AND SHALL NOTIFY THE PERMIT DEPARTMENT OF THE LAKE COUNTY DIVISION OF TRANSPORTATION ABOUT ANY CHANGES THAT DEVIATE FROM THE INTENT OF THE ENGINEERING PLANS.

BAXTER & WOODMAN Consulting Engineers

USER NAME = kroberson	DESIGNED - JA	REVISED -	
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PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -	
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES, INDEX OF SHEETS, HIGHWAY STANDARDS, D1 DETAILS, AND BENCHMARKS

SCALE: | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	2
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% STATE 20% LOCAL PEDESTRIAN 0028 ITEP
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	315	315
	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	17	17
	20101100	TREE TRUNK PROTECTION	EACH	53	53
*	20101200	TREE ROOT PRUNING	EACH	53	53
*	20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	40	40
*	20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	13	13
	20200100	EARTH EXCAVATION	CU YD	545	545
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	412	412
	20400800	FURNISHED EXCAVATION	CU YD	64	64
	20800150	TRENCH BACKFILL	CU YD	107	107
	21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	375	375
	21400100	GRADING AND SHAPING DITCHES	FOOT	1,327	1,327
	25000320	SEEDING, CLASS 5	ACRE	1	1
	25000400	NITROGEN FERTILIZER NUTRIENT	POUND	77	77
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	77	77

* INDICATES SPECIALTY ITEM

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% STATE 20% LOCAL PEDESTRIAN 0028 ITEP
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	77	77
25100630	EROSION CONTROL BLANKET	SQ YD	3,369	3,369
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	85	85
28000305	TEMPORARY DITCH CHECKS	FOOT	195	195
28000400	PERIMETER EROSION BARRIER	FOOT	2,082	2,082
28000510	INLET FILTERS	EACH	5	5
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	64	64
35101800	AGGREGATE BASE COURSE, TYPE B 6"	SQ YD	1,687	1,687
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	3,797	3,797
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	190	190
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	4	4
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	565	565
44000600	SIDEWALK REMOVAL	SQ FT	210	210
48101500	AGGREGATE SHCULDERS, TYPE B 6"	SQ YD	510	510

* INDICATES SPECIALTY ITEM

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BAXTER & WOODMAN Consulting Engineers

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	3
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% STATE 20% LOCAL PEDESTRIAN 0028 ITEP
	54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"	EACH	5	5
	550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	485	485
*	56400100	FIRE HYDRANTS TO BE MOVED	EACH	2	2
	60200805	CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE	EACH	1	1
	60207605	CATCH BASINS, TYPE C, TYPE 8 GRATE	EACH	3	3
	60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1
	60257900	MANHOLES TO BE RECONSTRUCTED	EACH	1	1
*	60266100	VALVE VAULTS TO BE RECONSTRUCTED	EACH	1	1
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	20	20
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1
*	66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1
*	66901006	REGULATED SUBSTANCES MONITORING	CAL DAY	10	10
	67100100	MOBILIZATION	LSUM	1	1
	70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1

* INDICATES SPECIALTY ITEM

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE 80% STATE 20% LOCAL PEDESTRIAN 0028 ITEP
	70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
*	72000100	SIGN PANEL - TYPE 1	SQ FT	53	53
	72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8
	72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1
*	72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	60	60
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	140	140
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	316	316
	X4240800	DETECTABLE WARNINGS (SPECIAL)	SQ FT	97	97
	X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	78	78
	X7200061	TEMPORARY INFORMATION SIGNING	SQ FT	86	86
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1	1
	Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	6	6
	Z0056648	STORM SEWERS, TYPE 1, WATER MAIN QUALITY PIPE, 12"	FOOT	18	18

* INDICATES SPECIALTY ITEM

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BAXTER & WOODMAN Consulting Engineers

USER NAME = javila	DESIGNED - JA	REVISED -
	DRAWN - MAC	REVISED -
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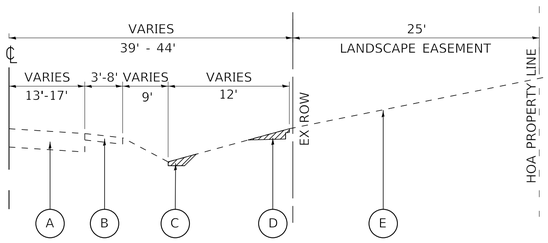
PLOT DATE = 4/22/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-SOQ.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

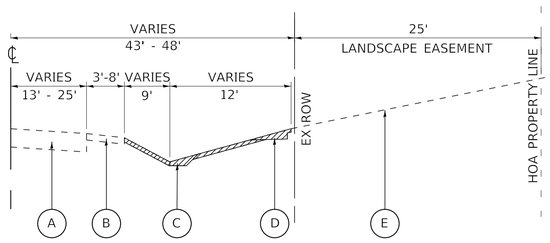
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	4
		CONTRACT NO. 61L52		
		ILLINOIS FED. AID PROJECT		



NIPPERSINK ROAD
EXISTING TYPICAL SECTION

(STA 80+38.00 TO STA 91+84.00)

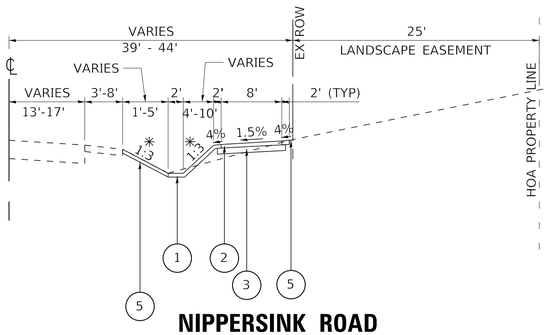
✳ AS DETERMINED BY THE ENGINEER



WILSON ROAD
EXISTING TYPICAL SECTION

(STA 50+76.00 TO STA 60+17.00)

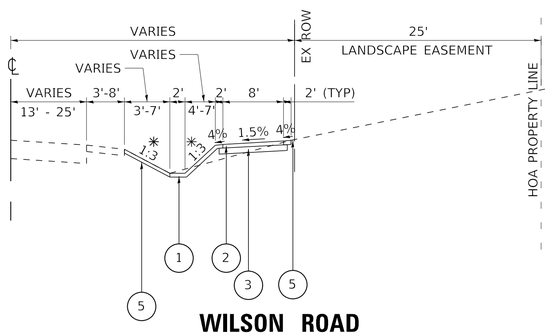
✳ AS DETERMINED BY THE ENGINEER



NIPPERSINK ROAD
PROPOSED TYPICAL SECTION

(STA 80+38.00 TO STA 91+84.00)

✳ MAX AND VARIES



WILSON ROAD
PROPOSED TYPICAL SECTION

(STA 50+76.00 TO STA 60+17.00)

✳ MAX AND VARIES

EXISTING LEGEND

- (A) EXISTING ROADWAY
- (B) EXISTING AGGREGATE SHOULDER
- (C) EXISTING DITCH BOTTOM
- (D) EARTH EXCAVATION (TYP)
- (E) EXISTING GROUND

- (1) 2' WIDE DITCH BOTTOM
- (2) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 -2"
- (3) AGGREGATE BASE COURSE, TYPE B, 6"
- (4) NOT USED
- (5) TOPSOIL EXCAVATION AND PLACEMENT, SEEDING CLASS 5

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
SHARED USE PATH		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 Gyr.	LR1030-2
INCIDENTAL HOT-MIX ASPHALT SURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 Gyr.	LR1030-2
QMP Designations: Quality Control/Quality Assurance (QC/QA); PER LR1030-02		

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NIPPERSINK ROAD & WILSON ROAD
TYPICAL SECTIONS

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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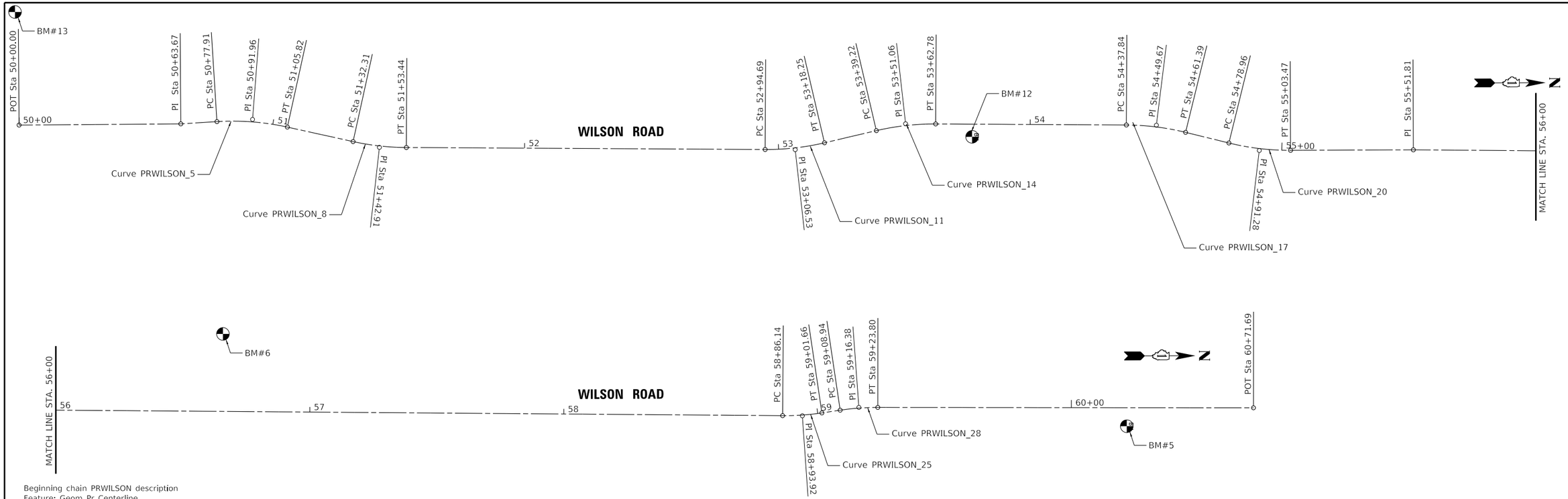
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		



Beginning chain PRWILSON description
Feature: Geom_Pr_Centerline

Point PRWILSON1 N 2,071,018.96 E 1,036,566.14 Sta 50+00

Course from PRWILSON1 to PRWILSON3 N 0° 13' 53" W Dist 63.67

Point PRWILSON3 N 2,071,082.63 E 1,036,565.88 Sta 50+64

Course from PRWILSON3 to PC PRWILSON_5 N 3° 22' 09" W Dist 14.24

Curve Data

Curve PRWILSON_5
P.I. Station 50+92 N 2,071,110.87 E 1,036,564.22
Delta = 15° 59' 17" (RT)
Degree = 57° 17' 45"
Tangent = 14.04
Length = 27.90
Radius = 100.00
External = 0.98
Long Chord = 27.81
Mid. Ord. = 0.97
P.C. Station 50+78 N 2,071,096.85 E 1,036,565.04
P.T. Station 51+06 N 2,071,124.58 E 1,036,567.29
C.C. N 2,071,102.73 E 1,036,664.87
Back = N 3° 22' 09" W
Ahead = N 12° 37' 08" E
Chord Bear = N 4° 37' 29" E

Course from PT PRWILSON_5 to PC PRWILSON_8 N 12° 37' 08" E Dist 26.49

Curve Data

Curve PRWILSON_8
P.I. Station 51+43 N 2,071,160.77 E 1,036,575.39
Delta = 12° 06' 43" (LT)
Degree = 57° 17' 45"
Tangent = 10.61
Length = 21.14
Radius = 100.00
External = 0.56
Long Chord = 21.10
Mid. Ord. = 0.56
P.C. Station 51+32 N 2,071,150.42 E 1,036,573.07
P.T. Station 51+53 N 2,071,171.38 E 1,036,575.49
C.C. N 2,071,172.27 E 1,036,475.49
Back = N 12° 37' 08" E
Ahead = N 0° 30' 25" E
Chord Bear = N 6° 33' 47" E

Course from PT PRWILSON_8 to PC PRWILSON_11 N 0° 30' 25" E Dist 141.25

Curve Data

Curve PRWILSON_11
P.I. Station 53+07 N 2,071,324.46 E 1,036,576.84
Delta = 13° 29' 45" (LT)
Degree = 57° 17' 45"
Tangent = 11.83
Length = 23.55
Radius = 100.00
External = 0.70
Long Chord = 23.50
Mid. Ord. = 0.69
P.C. Station 52+95 N 2,071,312.63 E 1,036,576.74
P.T. Station 53+18 N 2,071,335.99 E 1,036,574.18
C.C. N 2,071,313.51 E 1,036,476.74
Back = N 0° 30' 25" E
Ahead = N 12° 59' 19" W
Chord Bear = N 6° 14' 27" W

Course from PT PRWILSON_11 to PC PRWILSON_14 N 12° 59' 19" W Dist 20.97

Curve Data

Curve PRWILSON_14
P.I. Station 53+51 N 2,071,367.96 E 1,036,566.81
Delta = 13° 29' 45" (RT)
Degree = 57° 17' 45"
Tangent = 11.83
Length = 23.55
Radius = 100.00
External = 0.70
Long Chord = 23.50
Mid. Ord. = 0.69
P.C. Station 53+39 N 2,071,356.43 E 1,036,569.47
P.T. Station 53+63 N 2,071,379.79 E 1,036,566.91
C.C. N 2,071,378.90 E 1,036,666.91
Back = N 12° 59' 19" W
Ahead = N 0° 30' 25" E
Chord Bear = N 6° 14' 27" W

Course from PT PRWILSON_14 to PC PRWILSON_17 N 0° 30' 25" E Dist 75.06

Curve Data

Curve PRWILSON_17
P.I. Station 54+50 N 2,071,466.68 E 1,036,567.68
Delta = 13° 29' 45" (RT)
Degree = 57° 17' 45"
Tangent = 11.83
Length = 23.55
Radius = 100.00
External = 0.70
Long Chord = 23.50
Mid. Ord. = 0.69
P.C. Station 54+38 N 2,071,454.85 E 1,036,567.58
P.T. Station 54+61 N 2,071,478.16 E 1,036,570.54
C.C. N 2,071,453.96 E 1,036,667.57
Back = N 0° 30' 25" E
Ahead = N 14° 00' 10" E
Chord Bear = N 7° 15' 18" E

Course from PT PRWILSON_17 to PC PRWILSON_20 N 14° 00' 10" E Dist 17.57

Curve Data

Curve PRWILSON_20
P.I. Station 54+91 N 2,071,507.15 E 1,036,577.77
Delta = 14° 02' 35" (LT)
Degree = 57° 17' 45"
Tangent = 12.32
Length = 24.51
Radius = 100.00
External = 0.76
Long Chord = 24.45
Mid. Ord. = 0.75
P.C. Station 54+79 N 2,071,495.20 E 1,036,574.79
P.T. Station 55+03 N 2,071,519.47 E 1,036,577.77
C.C. N 2,071,519.40 E 1,036,477.77
Back = N 14° 00' 10" E
Ahead = N 0° 02' 25" W
Chord Bear = N 6° 58' 53" E

Course from PT PRWILSON_20 to PRWILSON23 N 0° 02' 25" W Dist 48.34

Point PRWILSON23 N 2,071,567.81 E 1,036,577.73 Sta 55+52

Course from PRWILSON23 to PC PRWILSON_25 N 0° 37' 42" E Dist 334.33

Curve Data

Curve PRWILSON_25
P.I. Station 58+94 N 2,071,909.90 E 1,036,581.48
Delta = 8° 53' 42" (LT)
Degree = 57° 17' 45"
Tangent = 7.78
Length = 15.52
Radius = 100.00
External = 0.30
Long Chord = 15.51
Mid. Ord. = 0.30
P.C. Station 58+86 N 2,071,902.12 E 1,036,581.40
P.T. Station 59+02 N 2,071,917.59 E 1,036,580.37
C.C. N 2,071,903.21 E 1,036,481.40
Back = N 0° 37' 42" E
Ahead = N 8° 16' 00" W
Chord Bear = N 3° 49' 09" W

Course from PT PRWILSON_25 to PC PRWILSON_28 N 8° 16' 00" W Dist 7.28

Curve Data

Curve PRWILSON_28
P.I. Station 59+16 N 2,071,932.16 E 1,036,578.25
Delta = 8° 30' 52" (RT)
Degree = 57° 17' 45"
Tangent = 7.44
Length = 14.86
Radius = 100.00
External = 0.28
Long Chord = 14.85
Mid. Ord. = 0.28
P.C. Station 59+09 N 2,071,924.79 E 1,036,579.32
P.T. Station 59+24 N 2,071,939.60 E 1,036,578.28
C.C. N 2,071,939.17 E 1,036,678.28
Back = N 8° 16' 00" W
Ahead = N 0° 14' 53" E
Chord Bear = N 4° 00' 33" W

Course from PT PRWILSON_28 to PRWILSON30 N 0° 14' 53" E Dist 147.89

Point PRWILSON30 N 2,072,087.50 E 1,036,578.92 Sta 60+72

Ending chain PRWILSON description

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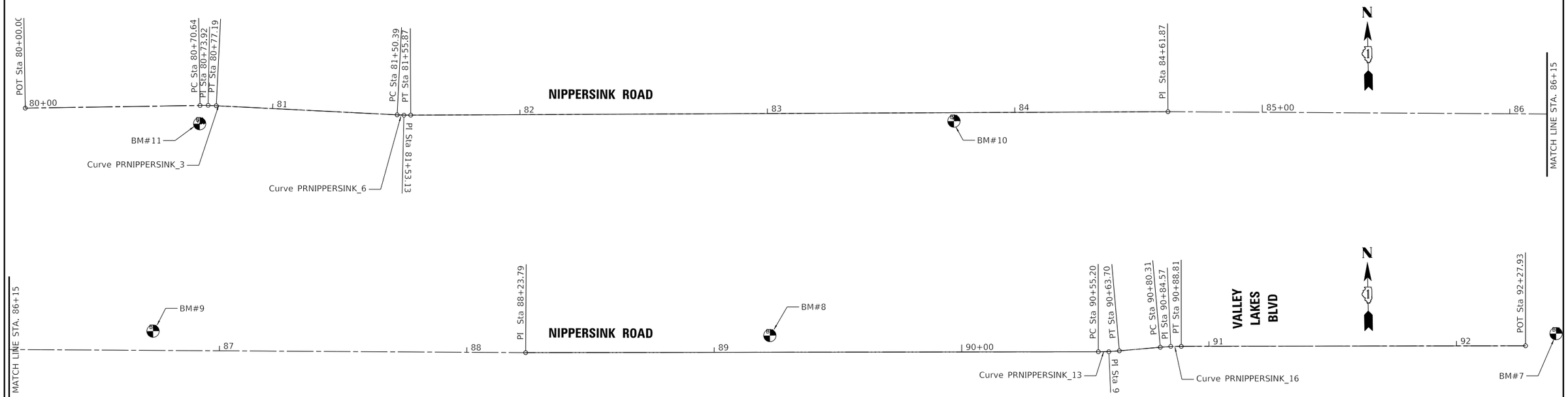
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILSON ROAD
ALIGNMENT

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	6
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		



Beginning chain PRNIPPERSINK description
Feature: Geom_Pr_Centerline

Point PRNIPPERSINK1 N 2,070,313.20 E 1,037,810.97 Sta 80+00

Course from PRNIPPERSINK1 to PC PRNIPPERSINK_3 S 89° 49' 44" E Dist 70.64

Curve Data

Curve PRNIPPERSINK_3
P.I. Station 80+74 N 2,070,312.98 E 1,037,884.88
Delta = 3° 45' 22" (RT)
Degree = 57° 17' 45"
Tangent = 3.28
Length = 6.56
Radius = 100.00
External = 0.05
Long Chord = 6.55
Mid. Ord. = 0.05
P.C. Station 80+71 N 2,070,312.99 E 1,037,881.60
P.T. Station 80+77 N 2,070,312.75 E 1,037,888.15
C.C. N 2,070,212.99 E 1,037,881.30
Back = S 89° 49' 44" E
Ahead = S 86° 04' 22" E
Chord Bear = S 87° 57' 03" E

Course from PT PRNIPPERSINK_3 to PC PRNIPPERSINK_6 S 86° 04' 22" E Dist 73.19

Curve Data

Curve PRNIPPERSINK_6
P.I. Station 81+53 N 2,070,307.55 E 1,037,963.91
Delta = 3° 08' 26" (LT)
Degree = 57° 17' 45"
Tangent = 2.74
Length = 5.48
Radius = 100.00
External = 0.04
Long Chord = 5.48
Mid. Ord. = 0.04
P.C. Station 81+50 N 2,070,307.74 E 1,037,961.18
P.T. Station 81+56 N 2,070,307.51 E 1,037,966.65
C.C. N 2,070,407.51 E 1,037,968.02
Back = S 86° 04' 22" E
Ahead = S 89° 12' 48" E
Chord Bear = S 87° 38' 35" E

Course from PT PRNIPPERSINK_6 to PRNIPPERSINK9 S 89° 12' 48" E Dist 306.00

Point PRNIPPERSINK9 N 2,070,303.31 E 1,038,272.62 Sta 84+62

Course from PRNIPPERSINK9 to PRNIPPERSINK11 S 88° 36' 14" E Dist 361.92

Point PRNIPPERSINK11 N 2,070,294.49 E 1,038,634.43 Sta 88+24

Course from PRNIPPERSINK11 to PC PRNIPPERSINK_13 S 89° 02' 32" E Dist 231.41

Curve Data

Curve PRNIPPERSINK_13
P.I. Station 90+59 N 2,070,290.56 E 1,038,870.06
Delta = 4° 52' 11" (LT)
Degree = 57° 17' 45"
Tangent = 4.25
Length = 8.50
Radius = 100.00
External = 0.09
Long Chord = 8.50
Mid. Ord. = 0.09
P.C. Station 90+55 N 2,070,290.63 E 1,038,865.81
P.T. Station 90+64 N 2,070,290.85 E 1,038,874.31
C.C. N 2,070,390.61 E 1,038,867.48
Back = S 89° 02' 32" E
Ahead = N 86° 05' 17" E
Chord Bear = N 88° 31' 22" E

Course from PT PRNIPPERSINK_13 to PC PRNIPPERSINK_16 N 86° 05' 17" E Dist 16.62

Curve Data

Curve PRNIPPERSINK_16
P.I. Station 90+85 N 2,070,292.27 E 1,038,895.13
Delta = 4° 52' 11" (RT)
Degree = 57° 17' 45"
Tangent = 4.25
Length = 8.50
Radius = 100.00
External = 0.09
Long Chord = 8.50
Mid. Ord. = 0.09
P.C. Station 90+80 N 2,070,291.98 E 1,038,890.89
P.T. Station 90+89 N 2,070,292.20 E 1,038,899.38
C.C. N 2,070,192.21 E 1,038,897.71
Back = N 86° 05' 17" E
Ahead = S 89° 02' 32" E
Chord Bear = N 88° 31' 22" E

Course from PT PRNIPPERSINK_16 to PRNIPPERSINK18 S 89° 02' 32" E Dist 139.11

Point PRNIPPERSINK18 N 2,070,289.87 E 1,039,038.47 Sta 92+28

Ending chain PRNIPPERSINK description

EARTHWORK

LOCATION	TOPSOIL EXCAVATION (CU YD)	TOPSOIL PLACEMENT (CU YD)	TOPSOIL BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)	REMOVAL & DISPOSAL OF UNSUITABLE MATERIAL (CU YD)	EARTH EXCAVATION (CU YD)	EXCAVATION TO BE USED IN EMBANKMENT (15% SHRINKAGE) (CU YD)	EMBANKMENT (CU YD)	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) (CU YD)
WILSON ROAD STA. 51+00 TO 59+13	**237**	**153**	**84**	**84**	**210**	**179**	**211**	**(32)**
	237	153	84	84	210	179	211	(32)
NIPPERSINK ROAD STA. 80+50 TO 90+76	**529**	**201**	**328**	**328**	**335**	**285**	**317**	**(32)**
	529	201	328	328	335	285	317	(32)
TOTAL	**766**	**354**	**412**	**412**	**545**	**464**	**528**	**(64)**

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

NIPPERSINK ROAD ALIGNMENT

SCALE: | SHEET OF SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	7
		CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			

BEGIN SHARED USE PATH
WILSON ROAD
STA 50+76

AGGREGATE SHOULDERS, TYPE B, 6"
(AS DETERMINED BY THE ENGINEER) (TYP)

EXISTING UTILITIES
TO BE AVOIDED

WILSON ROAD CENTER LINE

WILSON ROAD EDGE OF PAVEMENT

PR DITCH CL

WILSON ROAD

REMOVE SIGN PANEL ASSEMBLY - TYPE A (TYP)

EX ROW

96' RAD
(MIN) (TYP)

EXISTING DITCH TO REMAIN

DRAINAGE AND UTILITY EASEMENT (TYP)

PR CONSTRUCTION LIMITS (TYP)

HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50 - 2"
AGGREGATE BASE COURSE, TYPE B, 6"

GRADING AND SHAPING OF DITCHES

PR SHARED USE PATH CL & PGL

HOA PROPERTY LINE

EXISTING PUMP STATION TO BE AVOIDED

(2) 16" DIP FORCEMAINS

MATCH LINE STA. 56+00 - SEE LOWER LEFT

MATCH LINE STA. 56+00 - SEE UPPER RIGHT

LEGEND

- SIDEWALK REMOVAL
- COMBINATION CURB AND GUTTER REMOVAL
- TREE TRUNK PROTECTION, TREE ROOT PRUNING & TREE PRUNING
- 12" TREE REMOVAL

REMOVE SIGN PANEL ASSEMBLY - TYPE A
RELOCATE SIGN PANEL ASSEMBLY - TYPE A

COMBINATION CURB & GUTTER REMOVAL AND
REPLACEMENT (TYP)

96' RAD (MIN) (TYP)

DETECTABLE WARNINGS (SPECIAL)
(LCDOT STANDARD)

END SHARED USE PATH
WILSON ROAD
STA 60+17

(2) 16" DIP FORCEMAINS

PORTLAND CEMENT CONCRETE SIDEWALK 5" (TYP)
AGGREGATE BASE COURSE TYPE B, 4"

THERMOPLASTIC PAVEMENT - MARKING LINE 12" WHITE (3' C-C SPACING) (TYP)

PORTLAND CEMENT CONCRETE SIDEWALK 5" (TYP)
AGGREGATE BASE COURSE TYPE B, 4"

HOA PROPERTY LINE

SIGN PANEL - TYPE 1 (W2-1 18"x18" AND
W16-9P 24"x12")
TELESCOPING STEEL SIGN SUPPORT

SIGN PANEL - TYPE 1 (W2-1 18"x18",
D11-1 24"x18", M4-14 12"x6")
TELESCOPING STEEL SIGN SUPPORT

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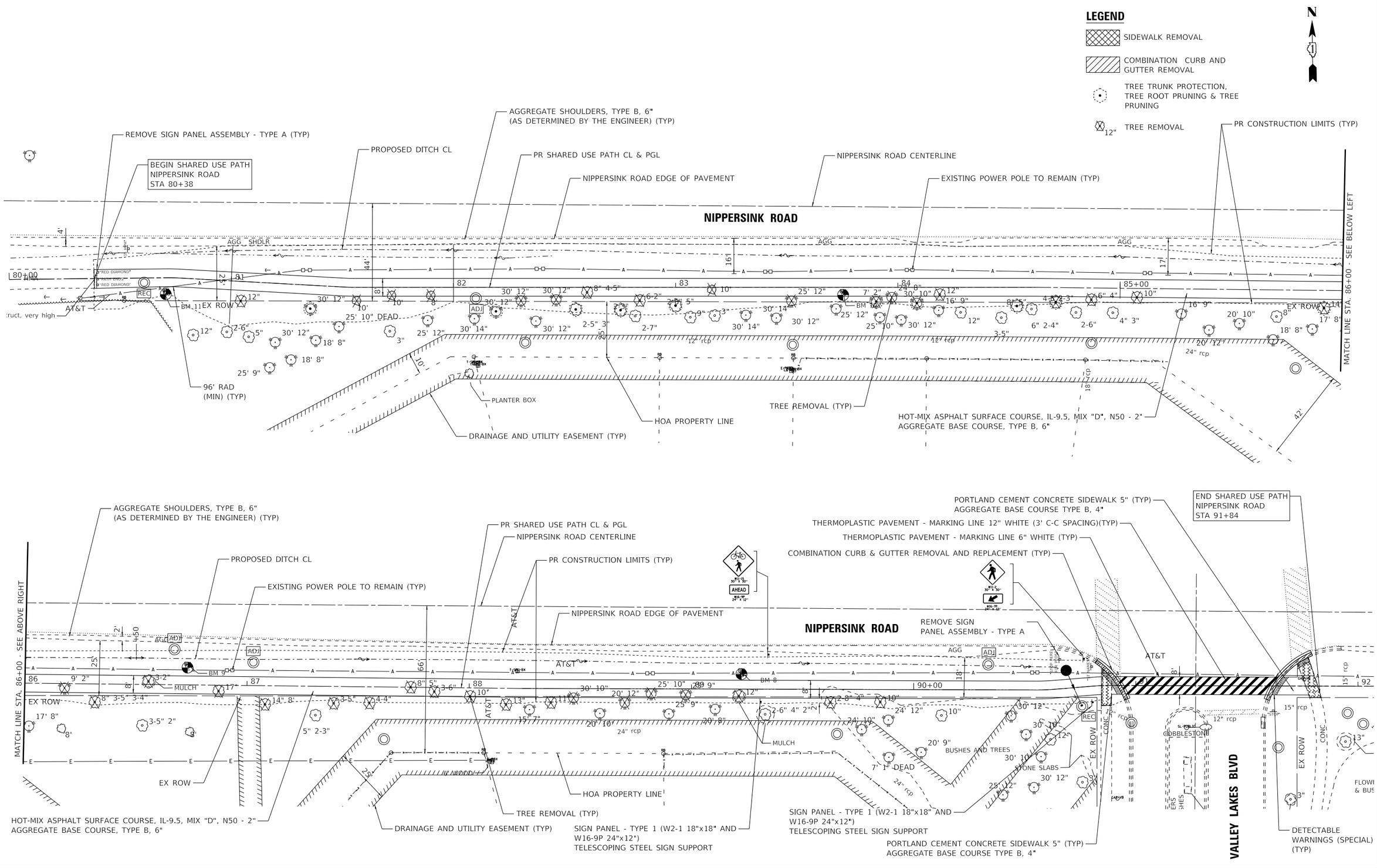
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHARED USE PLAN
WILSON ROAD

SCALE: | SHEET 1 OF 2 SHEETS | STA. 50+76 | TO STA. 60+17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	8
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHARED USE PLAN
NIPPERSINK ROAD

SCALE: | SHEET 2 OF 2 SHEETS | STA. 80+38 | TO STA. 91+84

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	9
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

WILSON ROAD CENTER LINE

PRECAST REINFORCED CONCRETE
FLARED END SECTION 12"
STA 51+39, 10.3' LT
INVERT: 783.05 12" SE

EXISTING UTILITIES
TO BE AVOIDED

STORM SEWERS, CLASS A, TYPE 1 12"
175 LFT @ 0.75%
TRENCH BACKFILL - 28 CY

PRECAST REINFORCED CONCRETE
FLARED END SECTION 12"
STA 54+85, 10.6' LT
INVERT: 789.16 12" SW

PR SHARED USE PATH CL & PGL

BEGIN SHARED USE PATH
WILSON ROAD
STA 50+76

WILSON ROAD

GRADING AND SHAPING OF DITCHES

MATCH LINE STA 56+00

EX ROW

EXISTING DITCH TO REMAIN

PRECAST REINFORCED CONCRETE
FLARED END SECTION 12"
STA 50+90, 11.0' RT
INVERT: 780.90 12" NW

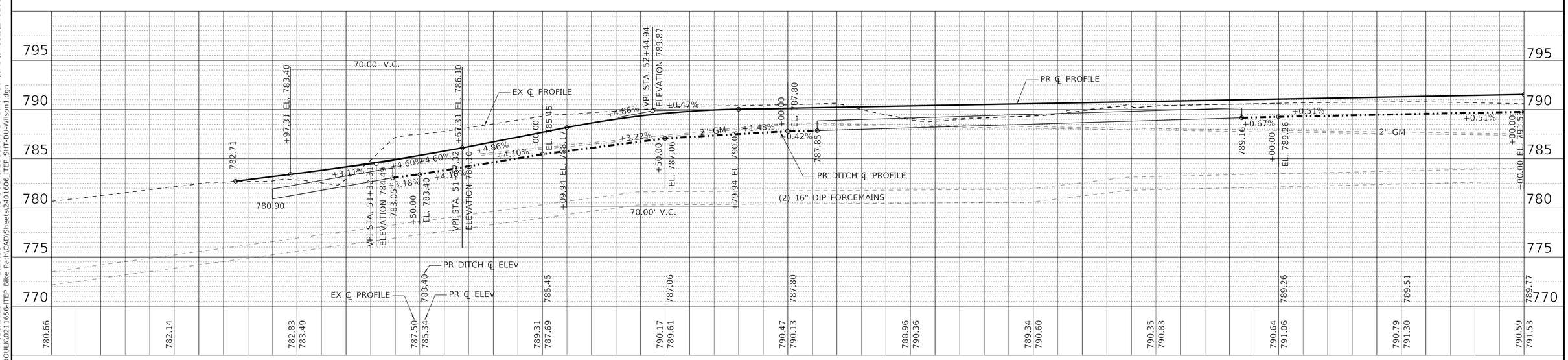
STORM SEWERS, CLASS A, TYPE 1 12"
51 LFT @ 4.22%
TRENCH BACKFILL - 12 CY

(2) 16" DIP FORCEMAINS

EXISTING PUMP STATION TO BE AVOIDED

PRECAST REINFORCED CONCRETE
FLARED END SECTION 12"
STA 53+12, 10.7' LT
INVERT: 787.85 12" NW

PR CONSTRUCTION LIMITS (TYP)



780.66	782.14	782.83 / 783.49	787.50 / 785.34
789.31 / 787.69	790.17 / 789.61	790.47 / 790.13	788.96 / 790.36
789.34 / 790.60	790.35 / 790.83	790.64 / 791.06	790.79 / 791.30
790.59 / 791.53			

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BAXTER & WOODMAN Consulting Engineers

USER NAME = mclark	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 4/30/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-DU-Wilson1.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
WILSON ROAD

SCALE: 1" = 20' | SHEET 1 OF 4 SHEETS | STA. 50+00 | TO STA. 56+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	10
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

BAXTER & WOODMAN Consulting Engineers

USER NAME = mclark
PLOT SCALE = 20.0000 ' / in.
PLOT DATE = 4/30/2025

DESIGNED -
DRAWN -
CHECKED -
DATE - 4-10-2025

REVISED -
REVISED -
REVISED -
FILE - 2401606_ITEP_SHT-DU-Wilson2.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
WILSON ROAD

SCALE: 1" = 20' | SHEET 2 OF 4 SHEETS | STA. 56+00 TO STA. 60+17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	11

CONTRACT NO. 61L52

ILLINOIS FED. AID PROJECT

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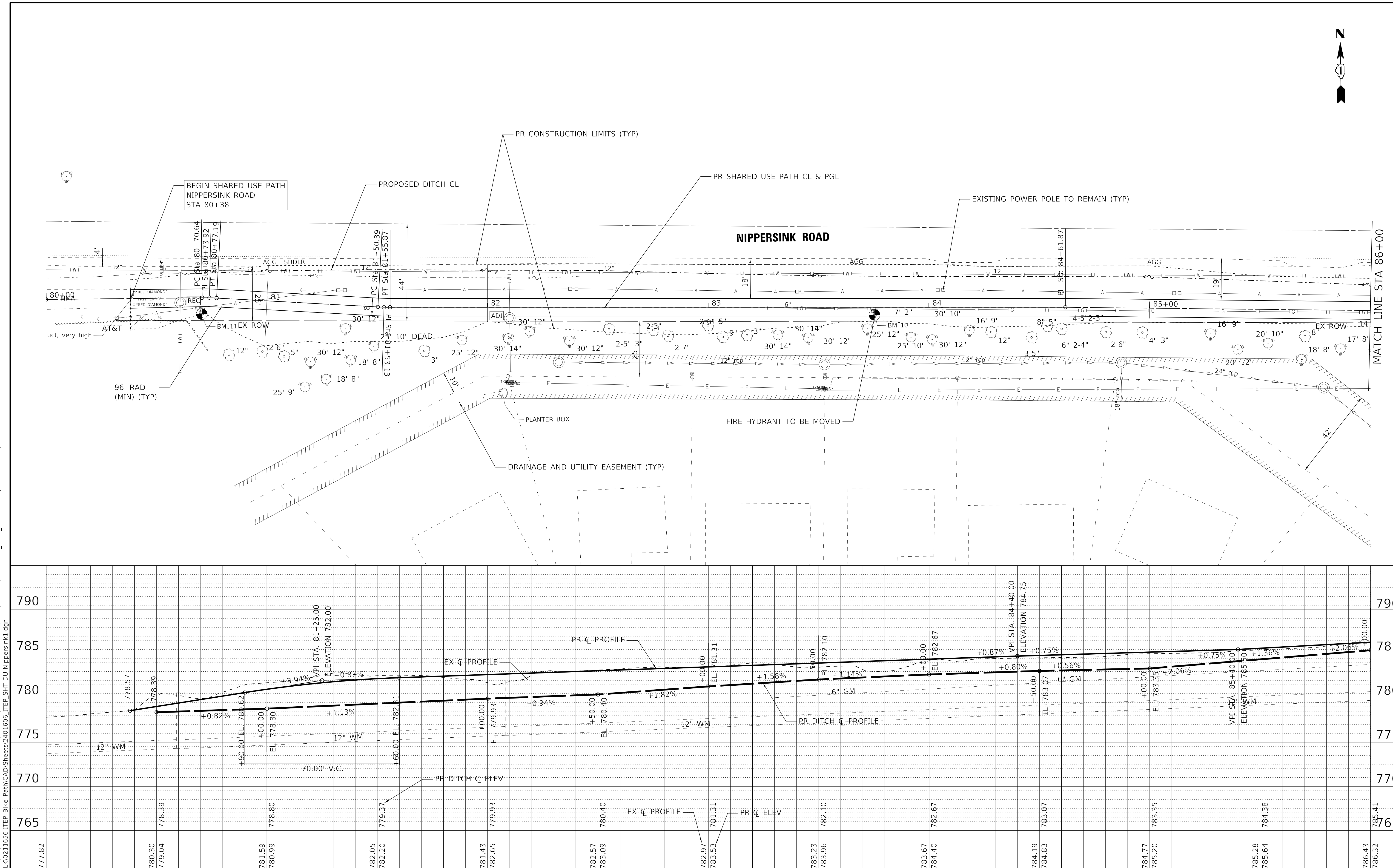

BAXTER & WOODMAN Consulting Engineers	USER NAME = mclark	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DRAINAGE AND UTILITY PLAN AND PROFILE NIPPERSINK ROAD
		DRAWN -	REVISED -		
	PLOT SCALE = 20.0000 ' / in.	CHECKED -	REVISED -		
	PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-DU-Nippersink1.dgn		SCALE: 1" = 20' SHEET 3 OF 4 SHEETS STA. 80+00 TO STA. 86+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	12
		CONTRACT NO. 61L52		
		ILLINOIS	FED. AID PROJECT	

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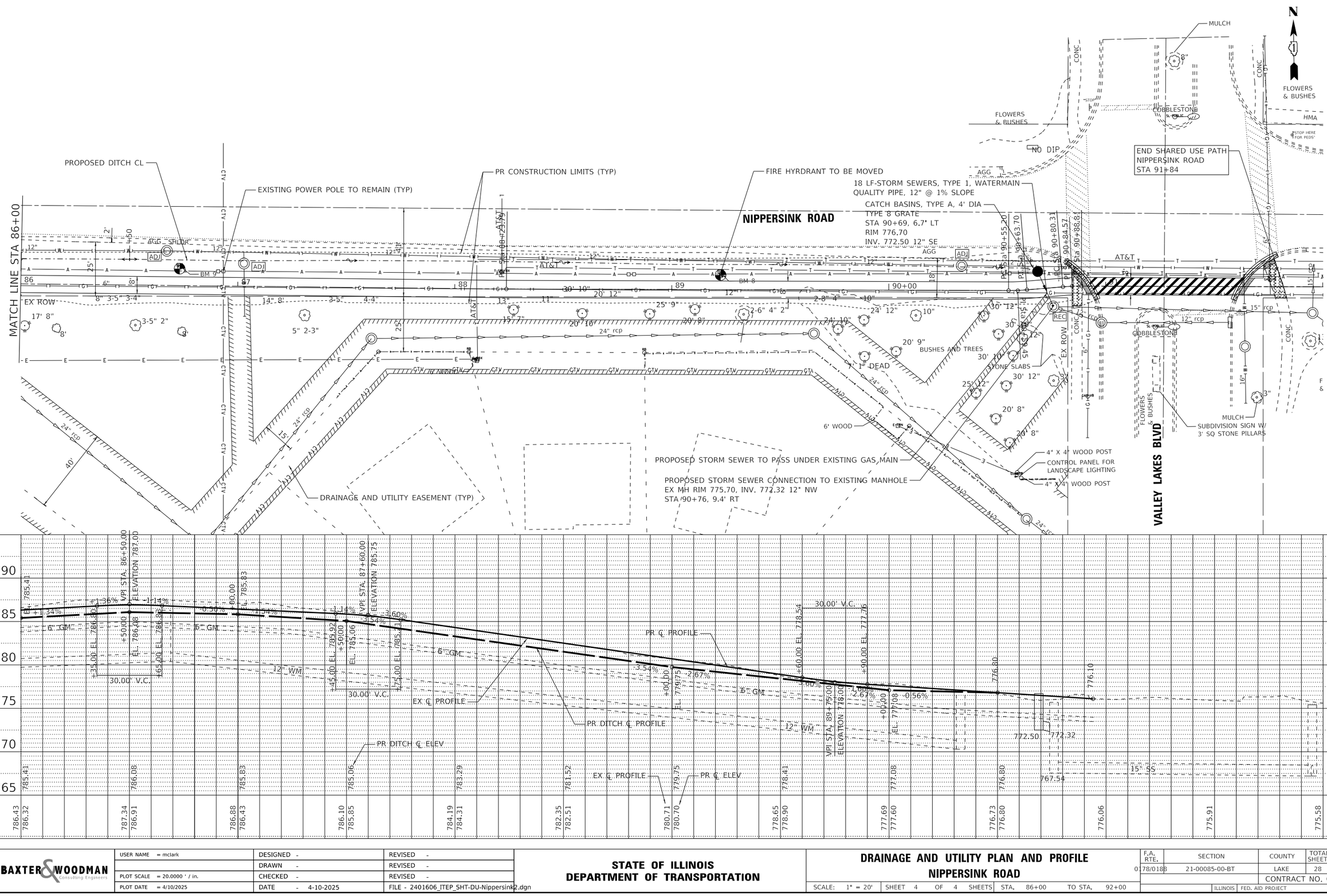

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BAXTER & WOODMAN Consulting Engineers

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	DRAWN -	REVISED -
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PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-DU-Nippersink2.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE AND UTILITY PLAN AND PROFILE
NIPPERSINK ROAD

SCALE: 1" = 20' | SHEET 4 OF 4 SHEETS | STA. 86+00 | TO STA. 92+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
078/0183	21-00085-00-BT	LAKE	28	13
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

BEGIN SHARED USE PATH
WILSON ROAD
STA 50+76

WILSON ROAD

MATCH LINE STA. 56+00 - SEE LOWER LEFT

EX ROW

EXISTING DITCH TO REMAIN

END SHARED USE PATH
WILSON ROAD
STA 60+17

WILSON ROAD EDGE OF PAVEMENT

WILSON ROAD

MATCH LINE STA. 56+00 - SEE UPPER RIGHT

HOA PROPERTY LINE

PRAIRIE TRAIL

LEGEND

- INLET FILTERS
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- TREE TRUNK PROTECTION
  TREE ROOT PRUNING
  TREE PRUNING
- SEEDING, CLASS 5

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BAXTER & WOODMAN Consulting Engineers

USER NAME = mclark	DESIGNED - JA	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING AND EROSION CONTROL
WILSON ROAD

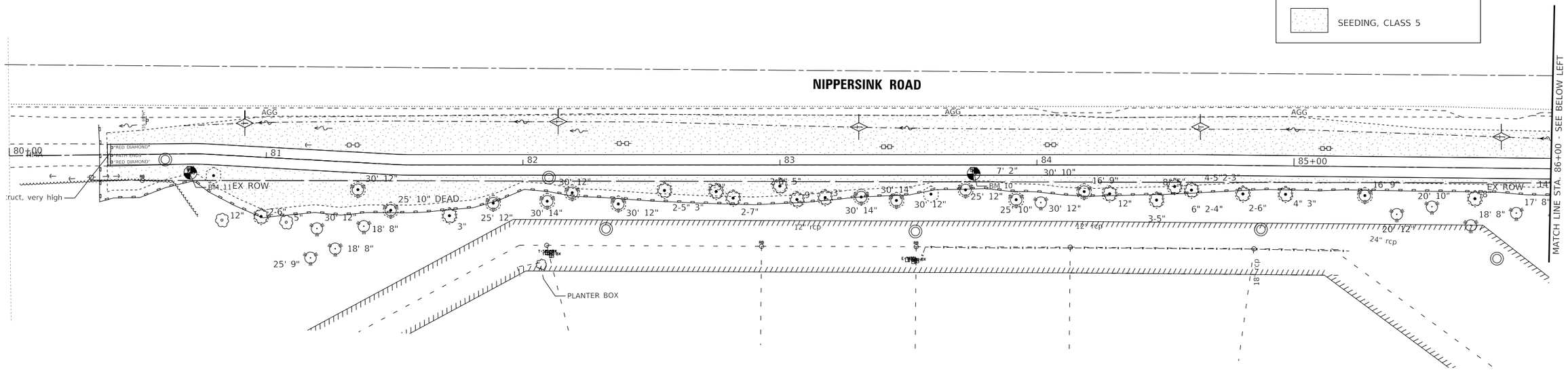
SCALE: | SHEET 1 OF 2 SHEETS | STA. 50+76 | TO STA. 60+17

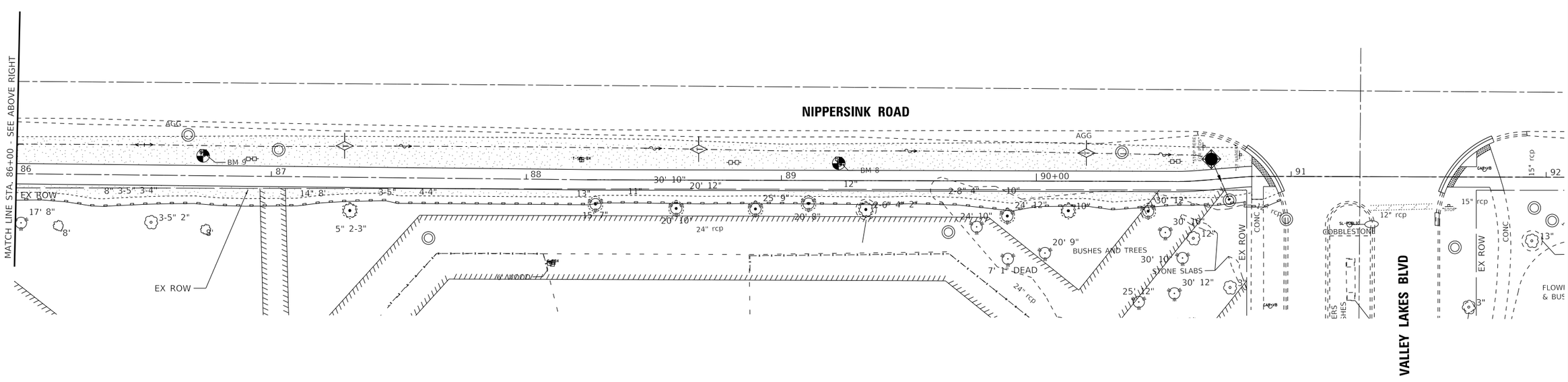
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	14
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

LEGEND

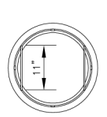
- INLET FILTERS
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- TREE TRUNK PROTECTION
  TREE ROOT PRUNING
  TREE PRUNING
- SEEDING, CLASS 5

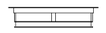
N

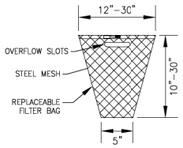




BAXTER & WOODMAN Consulting Engineers	USER NAME = mclark	DESIGNED - JA	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LANDSCAPING AND EROSION CONTROL NIPPERSINK ROAD			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - MAC	REVISED -					178/188	21-00085-00-BT	LAKE	28	15
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -							CONTRACT NO. 61L52		
	PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-Landscape&Erosion-Nippersink1.dgn		SCALE:	SHEET 2 OF 2 SHEETS	STA. 80+38 TO STA. 91+84			ILLINOIS	FED. AID PROJECT	







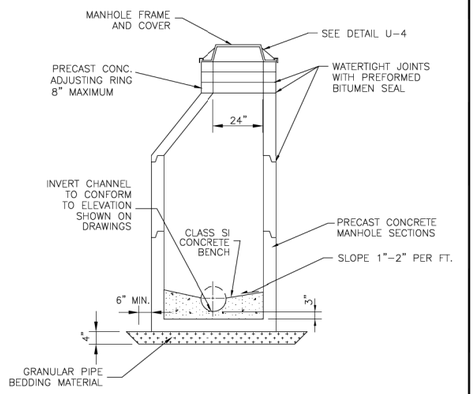
GENERAL NOTES:

FRAME: TOP RING CONSTRUCTED FROM 1 1/4" x 1 1/4" x 1/8" ANGLE. BASE RING CONSTRUCTED OF 1 1/2" x 1/2" x 1/8" CHANNEL. HANDLES & SUSPENSION BRACKETS CONSTRUCTED FROM 1/4" x 1 1/4" FLAT. ALL STEEL CONFORMING TO ASTM-A36.

REPLACEABLE BAG: CONSTRUCTED FROM 4 OZ./SQ. YD. NON-WOVEN POLYPROPYLENE GEOTEXTILE REINFORCED WITH POLYESTER MESH. CONNECTED TO BASE RING WITH STAINLESS STEEL STRAP & LOCK.

STEEL MESH: REMOVABLE STAINLESS STEEL MESH STRAINER BASKET. 1/4" DIA. HOLE SIZE, 58% OPEN AREA.

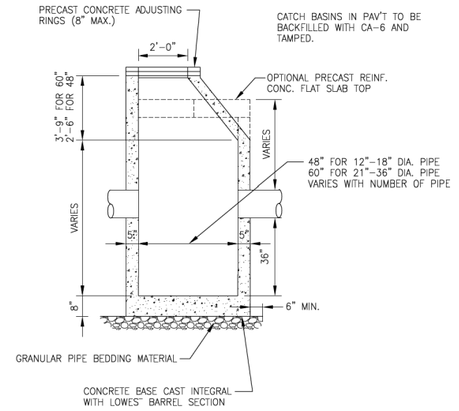
REVISIONS		ROUND LAKE EROSION CONTROL STANDARDS	EC-3
DATE	REVISION	INLET PROTECTION FILTER	



NOTE:
1. USE ECCENTRIC CONES UNLESS OTHERWISE INDICATED ON THE DRAWINGS. FLAT SLAB TOPS PERMITTED ONLY FOR MANHOLES TOO SHALLOW FOR CONES.
2. USE 4'–0" DIAMETER FOR SEWER SIZES 8" THRU 18", 5'–0" DIAMETER FOR SEWER SIZES 21" THRU 33", UNLESS OTHERWISE NOTED.

REVISIONS		ROUND LAKE STORM STANDARDS	ST-1
DATE	REVISION	STORM MANHOLE DETAIL	

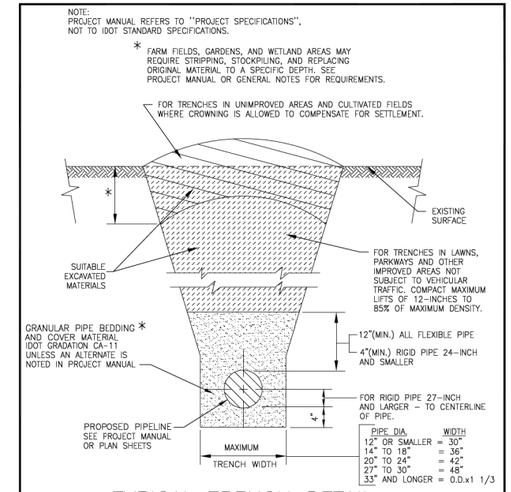
FRAME AND GRATE	
CURB INLET	R–3281
REAR YARD/SALVAGE	R–4340–B
PARKWAY	R–2504 TYPE D



REVISIONS		ROUND LAKE STORM STANDARDS	ST-2
DATE	REVISION	CATCH BASIN-TYPE A	

NOTE:
PROJECT MANUAL REFERS TO "PROJECT SPECIFICATIONS", NOT TO IDOT STANDARD SPECIFICATIONS.

* FARM FIELDS, GARDENS, AND WETLAND AREAS MAY REQUIRE STRIPPING, STOCKPILING, AND REPLACING ORIGINAL MATERIAL TO A SPECIFIC DEPTH. SEE PROJECT MANUAL OR GENERAL NOTES FOR REQUIREMENTS.



PIPE DIA.	WIDTH
12" OR SMALLER	= 30"
14" TO 18"	= 36"
20" TO 24"	= 42"
27" TO 30"	= 48"
33" AND LONGER	= O.D.x1 1/3

TYPICAL TRENCH DETAIL

NO SCALE

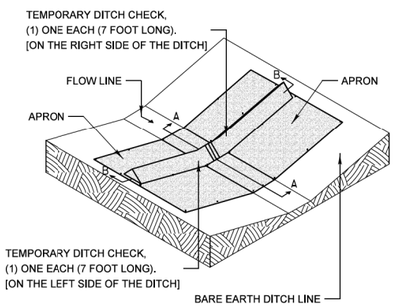
FOR NON–PAVED AREAS

* FOR FLEXIBLE THERMOPLASTIC OR HDPE PIPE COMPLY WITH ASTM 2321, CLASS I OR II.

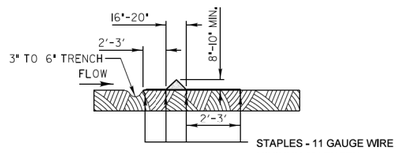
FOR RIGID PIPE COMPLY WITH ASTM C12, BEDDING CLASS B.

REVISIONS		ROUND LAKE GENERAL UTILITY STANDARDS	U-3
DATE	REVISION	TYPICAL TRENCH DETAIL FOR NON-PAVED AREAS	

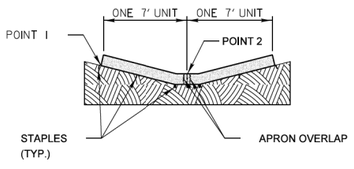
FOR BARE EARTH APPLICATION ONLY



SILT DIKE UNIT ISOMETRIC



SECTION A-A



SECTION B-B

NOTES:
THE TEMPORARY DITCH CHECK SHALL BE USED IN BARE EARTH DITCH LINES AND SHALL BE REMOVED JUST PRIOR TO THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A TEMPORARY DITCH CHECK 14 FEET IN LENGTH.

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND IN THE CENTER OF THE 7' UNIT AS SHOWN ON THE DIAGRAM.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS OVER THE DIKE AND NOT AROUND THE ENDS.

REVISIONS	DATE
ADDED DIMENSIONS	04/8/08
REVISED PAY ITEM	04/15/10
ADDED PLASTIC BERM (pg2)	10/10/12

LakeCounty Division of Transportation

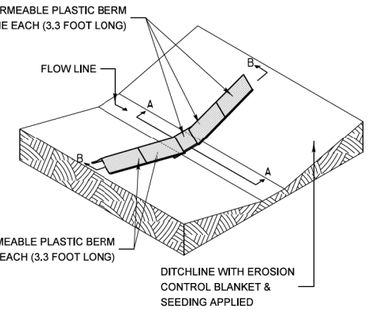
APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

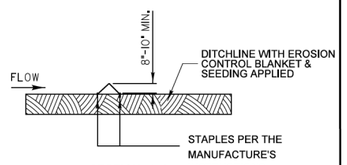
(SHEET 1 OF 2)

LC2050

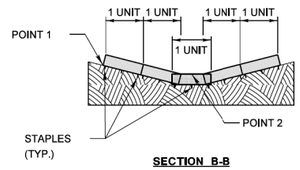
FOR USE WHILE ESTABLISHING FINAL LANDSCAPING



PERMEABLE PLASTIC BERM ISOMETRIC



SECTION A-A



SECTION B-B

NOTES:
THE PERMEABLE PLASTIC BERM SHALL REPLACE THE TEMPORARY DITCH CHECK AFTER THE INSTALLATION OF EROSION CONTROL BLANKET AND SEEDING.

EACH PERMEABLE PLASTIC BERM IS 3.3 FEET IN LENGTH. THE MINIMUM INSTALLATION IN A DITCH SHALL BE THREE UNITS. THE INSTALLATION SHOWN WILL BE MEASURED AND PAID FOR AS A PERMEABLE PLASTIC BERM 16.5 FEET IN LENGTH (5 UNITS).

STAPLES SHALL BE PLACED WHERE THE UNITS OVERLAP AND ACCORDING TO THE MANUFACTURER'S INSTALLATION INSTRUCTIONS.

POINT 1 MUST BE HIGHER THAN POINT 2 TO INSURE THAT WATER FLOWS THROUGH OR OVER THE BERM AND NOT AROUND THE ENDS.

REVISIONS	DATE
ADDED DIMENSIONS	04/8/08
REVISED PAY ITEM	04/15/10
ADDED PLASTIC BERM (pg2)	10/10/12

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

TEMPORARY DITCH CHECK INSTALLATION FOR ROADWAY OR DRAINAGE DITCH

(SHEET 2 OF 2)

LC2050

BAXTER & WOODMAN Consulting Engineers	USER NAME = mclark	DESIGNED - JA	REVISED -
		DRAWN - MAC	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -
	PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-Details.dgn

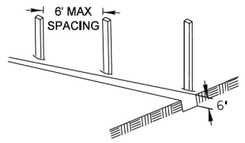
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUND LAKE DETAILS & LAKE COUNTY DETAILS

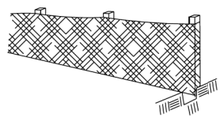
SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	16
		CONTRACT NO. 61L52		
	ILLINOIS	FED. AID PROJECT		

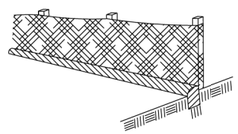
1. SET POSTS AND EXCAVATE OR SLIT-TRENCH A 6-INCH DEEP TRENCH UPSLOPE ALONG THE LINE OF POSTS



2. ATTACH GEOTEXTILE FILTER FABRIC TO EACH POST WITH A MINIMUM OF 3 (THREE) FASTENERS PER POST AND EXTEND FABRIC TO THE BOTTOM OF THE TRENCH

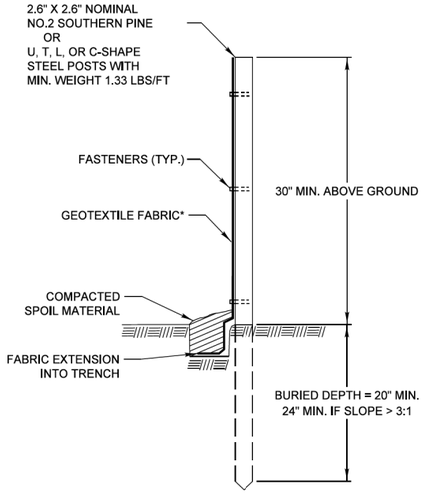


3. BACKFILL AND COMPACT THE EXCAVATED MATERIALS



Requirements	Test Methods	Unsupported Silt Fence		
		Wire Backed Supported Silt Fence [a]	Geotextile Elongation >=50% [b]	Geotextile Elongation <50% [b]
Maximum Post Spacing		4 feet	4 feet	6 feet
Grab Strength	ASTM D 4632			
Machine direction		90 lbs	124 lbs	124 lbs
X-Machine direction		90 lbs	100 lbs	100lbs
Permittivity [c]	ASTM D 4491	0.05 sec^{-1}	0.05 sec^{-1}	0.05 sec^{-1}
Apparent Opening Size	ASTM D 4751	0.024in maximum average roll value		
Ultraviolet stability (retained strength)	ASTM D 4355	70% after 500 hours of exposure		

POSTS - CHOICE OF:
1.2" X 1.2" NOMINAL HARDWOOD POSTS
2.6" X 2.6" NOMINAL NO.2 SOUTHERN PINE
OR
U, T, L, OR C-SHAPE STEEL POSTS WITH MIN. WEIGHT 1.33 LBS/FT



* NOTE: OPTIONAL WIRE SUPPORT
- MIN. 30" HEIGHT
- MIN. 14 GAUGE WIRE
- MIN. 6 HORIZ. WIRES
- MIN. 6" VERTICAL SPACING

SCALE 1" = 1'

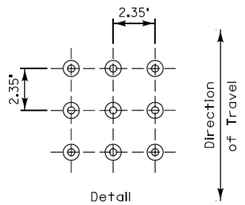
REVISIONS	DATE
ORIG. by LCSMC	4/21/08
Update Text	7/15/11

LakeCounty Division of Transportation

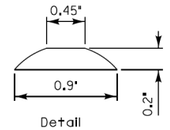
APPROVED BY: M. G. ZEMAITIS
DATE: JUNE 20, 2008

PERIMETER EROSION BARRIER INSTALLATION

LC2051

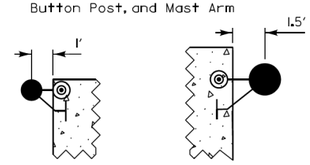


Detail
Detectable Warnings
Square Pattern
(Scale 1" = 6")



Detail
Truncated Dome
(Scale 1" = 1")

Location Detail
Signal Post, Pedestrian Push Button Post, and Mast Arm



•GENERAL NOTES:

1. Cross slopes on sidewalks and paths shall not exceed 1.5% except at locations detailed on the plans.
2. Only whole cast iron panels from the manufacturer shall be used for the detectable warnings. Cut panels shall not be allowed.
3. The gutter slope for the DEPRESSED CURB adjacent to the curb ramp shall be a maximum of 5% (standard curb and gutter is 6%). The back of curb rise shall be a maximum of ½" (standard depressed curb is 1/2"). See IDOT standard 606001 for the different curb dimensions.
4. The Depressed Curb and the Transition Curb will be paid for as COMBINATION CONCRETE CURB AND GUTTER of the type adjacent to the curb ramp.
5. The DETECTABLE WARNINGS shall be installed according to Article 424.09 of the IDOT Standard Specifications and the LCDOT specification 42400800 DETECTABLE WARNINGS. Detectable warnings shall be measured and paid for per square foot.

REVISIONS	DATE
Added Warning Details	8/1/2009
Updates & Remove Duplicates	7/14/2015
Remove Fanning of Panels	12/16/2020

LakeCounty Division of Transportation

APPROVED BY: M. G. ZEMAITIS
DATE: APRIL 1, 2007

DETECTABLE WARNINGS and PEDESTRIAN PUSHBUTTON LOCATIONS

LC4201

BAXTER & WOODMAN Consulting Engineers

USER NAME = kroberson	DESIGNED - JA	REVISED -
	DRAWN - MAC	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -
PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-Details.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

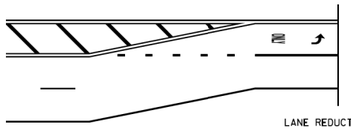
LAKE COUNTY DETAILS

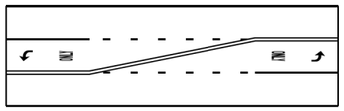
SCALE: | SHEET 2 OF 1 SHEETS | STA. | TO STA.

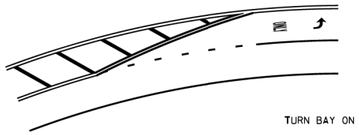
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	17
		CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			

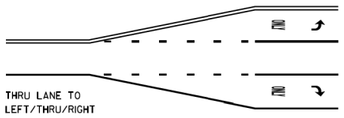
TYPICAL PAVEMENT MARKINGS

TYPICAL MINI-SKIP PAVEMENT MARKINGS



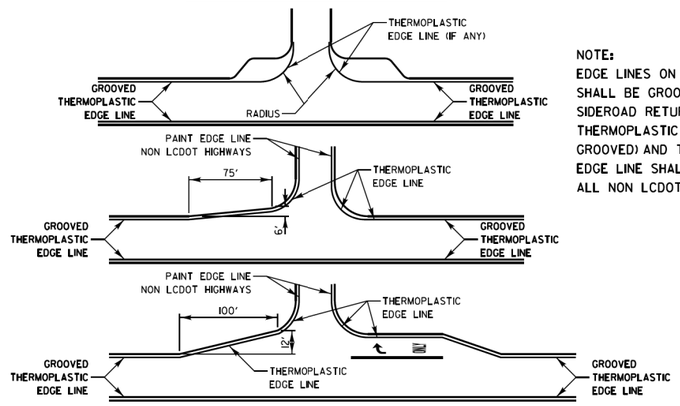






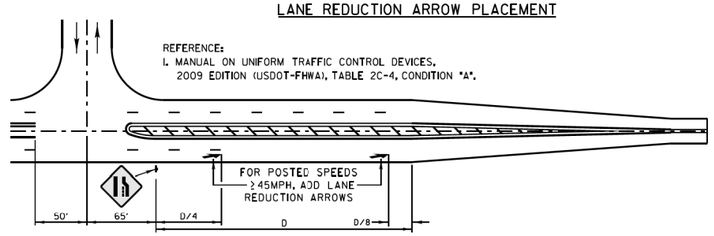
MINI-SKIPS ARE 2 FEET WHITE LINE WITH 6 FEET SPACING. THE MINI-SKIP IS THE SAME WIDTH AS THE PAVEMENT MARKING LINE. IT EXTENDS.

EDGE LINE RADII AT SIDE STREETS



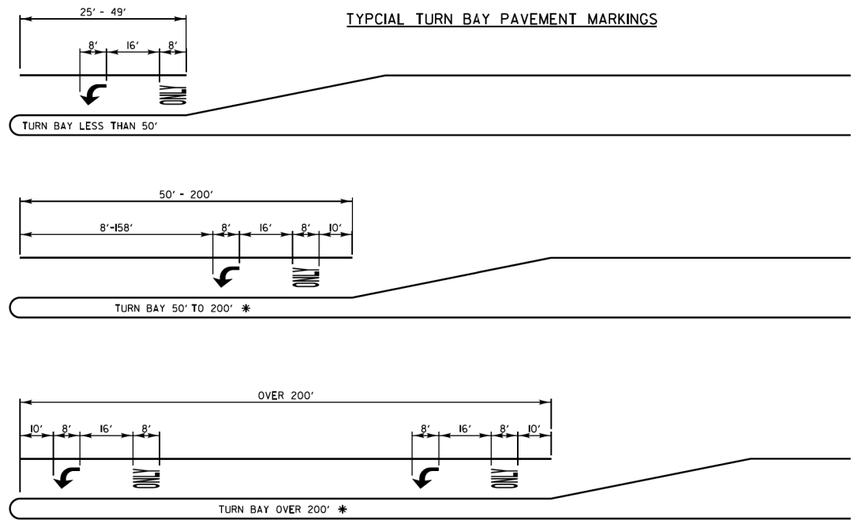
NOTE:
EDGE LINES ON LCDOT HIGHWAYS SHALL BE GROOVED THERMOPLASTIC. SIDEROAD RETURNS SHALL BE A THERMOPLASTIC EDGE LINE (NOT GROOVED) AND THE SIDEROAD EDGE LINE SHALL BE PAINT ON ALL NON LCDOT HIGHWAYS.

LANE REDUCTION ARROW PLACEMENT



DESIGN SPEED MPH	D (FEET)
<45	VARIES
45	775' (1)
50	885' (1)
55	990' (1)

TYPCIAL TURN BAY PAVEMENT MARKINGS



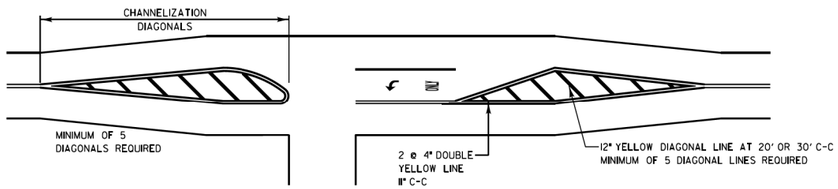
* AT INTERSECTIONS WITH VIDEO DETECTION, THE ARROW AND ONLY PAVEMENT MARKINGS SHALL BE A MINIMUM OF 30' BEHIND THE STOP BAR.

AREA = 15.6 SQ. FT.

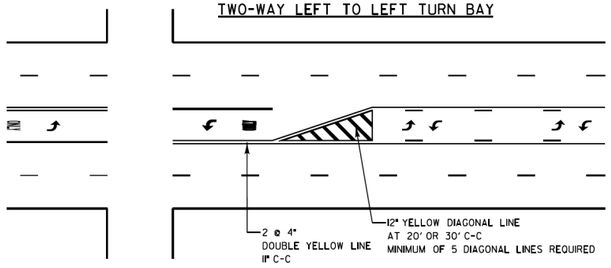
ONLY AREA = 20.8 SQ FT.

FULL SIZE LETTERS (8') AND ARROWS SHALL BE USED. TURN LANES IN EXCESS OF 400' IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW W/ "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW W/ "ONLY".

TWO LANE ROAD



TWO-WAY LEFT TO LEFT TURN BAY



TYPICAL DIAGONAL SPACING

DIAGONAL SPACING

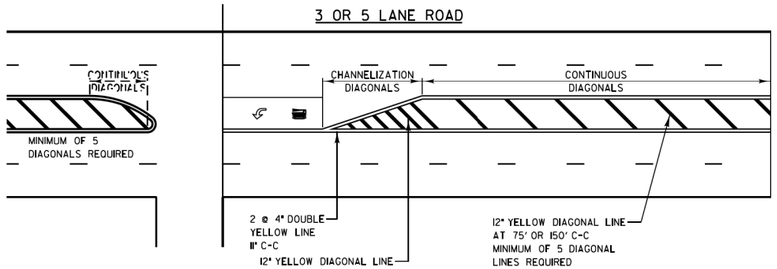
SPEED LIMIT RANGE	CONTINUOUS	INTERSECTION CHANNELIZATION
30-45 MPH	75 FT.	20 FT.
OVER 45 MPH	150 FT.	30 FT.

DUAL LEFT TURN ARROWS

A MINIMUM OF TWO PAIRS OF DUAL LEFT TURN ARROWS SHALL BE USED. THE DUAL LEFT TURN ARROWS SHALL BE WHITE IN COLOR. THE INTERVAL BETWEEN SETS OF DUAL LEFT TURN ARROWS SHOULD BE 200' AND 300'.

312 SQ. FT. MINIMUM OF 2 SETS REQUIRED

3 OR 5 LANE ROAD



REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
ADDED LANE REDUCTION ARROWS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOB BAR/DBL YELLOW	8/31/17

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 1 OF 2

LC7800

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/
		/ /		DSGNR/LIAISON:	
		/ /		PLOTTED BY:	hdrmc 9/5/2017

LakeCounty Division of Transportation

PROJECT NAME	ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
LAKE COUNTY STANDARDS & DETAILS	CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX

FILE NAME: C:\Users\hdrmc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn

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BAXTER & WOODMAN Consulting Engineers

USER NAME = kroberson	DESIGNED - JA	REVISED -	
	DRAWN - MAC	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -	
PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-Details.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

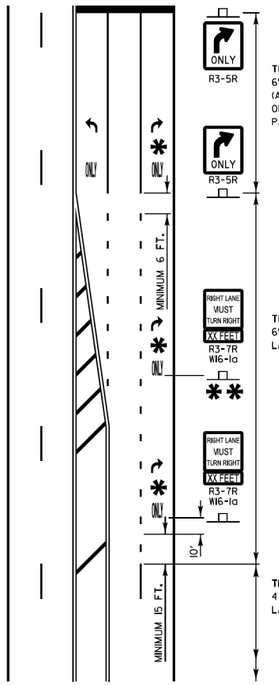
LAKE COUNTY DETAILS

SCALE: | SHEET 1 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	17a
		CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			

TYPICAL PAVEMENT MARKINGS AND RECESSED PAVEMENT MARKERS

THRU LANE TO TURN LANE CONVERSION



TURN LANE
6" WHITE LINE
(ADDITIONAL PAVEMENT MARKINGS AS SHOWN ON SHEET ONE OF THE L.C.D.O.T TYPICAL PAVEMENT MARKINGS DETAIL SHEETS)

MINIMUM TRANSITION ZONE LENGTH

TRANSITION ZONE
6" WHITE 3'/12' SKIP DASH LANE LINE

POSTED SPEED	LENGTH
25 M.P.H.	255 FT
30 M.P.H.	330 FT
35 M.P.H.	405 FT
40 M.P.H.	480 FT
45 M.P.H.	555 FT
50 M.P.H.	630 FT
55 M.P.H.	705 FT

* LOCATION OF PAV'T MARKINGS

(MEASURED FROM BEGINNING OF TRANSITION ZONE)

POSTED SPEED	LOCATION OF PAV'T MARKINGS
25 M.P.H.	10 FT, 260 FT
30 M.P.H.	10 FT, 170 FT, 340 FT
35 M.P.H.	10 FT, 210 FT, 410 FT
40 M.P.H.	10 FT, 170FT, 330 FT, 490 FT
45 M.P.H.	10 FT, 190 FT, 370 FT, 560 FT
50 M.P.H.	10 FT, 170 FT, 330 FT, 490 FT, 640 FT
55 M.P.H.	10 FT, 180 FT, 350 FT, 520 FT, 710 FT

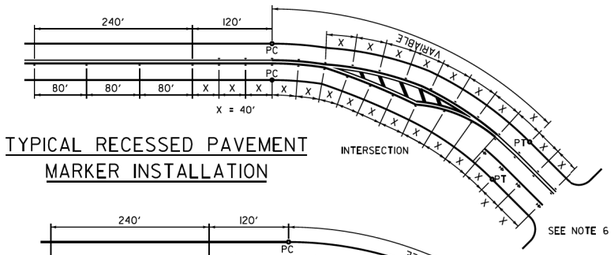
THRU LANE
4 " WHITE 10'/30' SKIP DASH LANE LINE

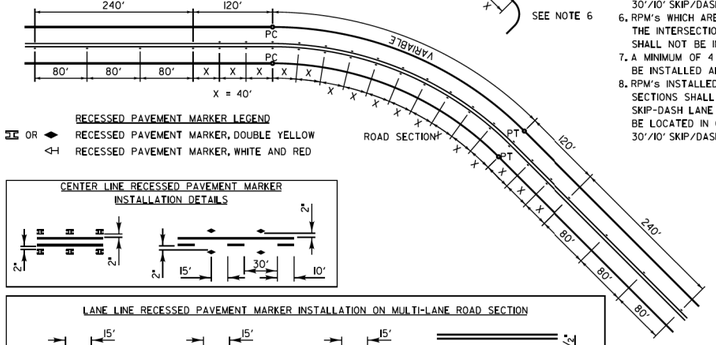
** FOR POSTED SPEEDS 40 M.P.H. OR GREATER A SECOND R3-7/W16-1a SIGN INSTALLATION SHALL BE LOCATED HALFWAY BETWEEN THE BEGINNING OF THE TRANSITION ZONE AND THE BEGINNING OF THE TURN LANE

PAVEMENT MARKING GUIDELINES

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE OF 2 LANE PAVEMENT	4 IN.	SKIP-DASH	YELLOW	10 FT. LINE WITH 30 FT. SPACE
NO PASSING ZONE LINES: FOR ONE DIRECTION / FOR BOTH DIRECTIONS	4 IN. / 2 @ 4 IN.	SOLID / SOLID	YELLOW / YELLOW	5 1/2 IN. C-C FROM SKIP-DASH CENTERLINE / 11 IN. C-C (OMIT SKIP-DASH CENTERLINE BETWEEN)
CENTERLINE ON MULTI-LANE UNDIVIDED	2 @ 4 IN.	SOLID	YELLOW	11 IN. C-C
LANE LINES	4 IN.	SKIP-DASH	WHITE	10 FT. LINE WITH 30 FT. SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2 FT. LINE WITH 6 FT. SPACE
EDGE LINES	5 IN. WHITE / 4 IN. YELLOW	SOLID	WHITE - RIGHT / YELLOW - LEFT	OUTLINE RAISED MEDIANS IN YELLOW
TURN LANE MARKINGS	6 IN. LINE / FULL SIZE LETTERS AND SYMBOLS (8 FT.)	SOLID	WHITE	TURN ARROW 15.6 SQ. FT. / STRAIGHT ARROW 11.5 SQ. FT. / ONLY 20.8 SQ. FT. / COMB. ARROW 26.0 SQ. FT.
TWO WAY LEFT TURN MARKING	2 @ 4 IN. EACH DIRECTION / 8 FT. LEFT ARROW	SKIP-DASH AND SOLID / IN PAIRS	YELLOW / WHITE	10 FT. LINE WITH 30 FT. SPACE FOR SKIP-DASH / 5 1/2 IN. C-C BETWEEN SKIP-DASH LINE AND SOLID LINE / SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK	12 IN. @ 90°	SOLID	WHITE	12 IN. LONGITUDINAL BAR WITH 24 IN. SPACE / 6 FT. TO 12 FT. WIDE / SEE TYPICAL CROSSWALK MARKING DETAIL
STOP BARS	24 IN.	SOLID	WHITE	PLACE 4 FT. IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE PLACE AT DESIRED STOPPING POINT.
PAINTED MEDIANS	2 @ 4 IN. & 11 IN. C-C / 12 IN. DIAGONALS @ 45° / NO DIAGONALS USED FOR 4 FT. WIDE MEDIAN	SOLID	YELLOW: 2-WAY TRAFFIC / WHITE: 1-WAY TRAFFIC	11 IN. C-C FOR THE DOUBLE LINE / SEE TYPICAL PAINTED MEDIAN MARKING DETAIL / MINIMUM OF 5 DIAGONALS
GORE MARKING AND CHANNELIZING LINES	8 IN. WITH 12 IN. DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS 15 FT. C-C (LESS THAN 30 M.P.H.) 20 FT. C-C (30 TO 45 M.P.H.) 30 FT. C-C (OVER 45 M.P.H.) / MINIMUM OF 5 DIAGONALS
R.R. CROSSING	24 IN. TRANSVERSE LINES / RR IS 6 FT. LETTER 16 IN. LINE FOR "X"	SOLID	WHITE	SEE L.D.O.T. STD. 780001 / SQ. FT. AREA OF: "R" = 5.6 SQ. FT. / "R" "X" = 54.0 SQ. FT.
SHOULDER DIAGONALS (FOR PAVED SHOULDER ≥ 6 FT.)	12 IN. @ 45°	SOLID	WHITE - RIGHT / YELLOW - LEFT	50 FT. C-C (LESS THAN 30 M.P.H.) 75 FT. C-C (30 TO 45 M.P.H.) 150 FT. C-C (OVER 45 M.P.H.) / MINIMUM OF 5 DIAGONALS
ALL PAVEMENT MARKINGS TO BE GROOVED THERMOPLASTIC, UNLESS OTHERWISE SPECIFIED BY THE ENGINEER				
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO PART III "MARKINGS" IN THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", AND THE LATEST I.D.O.T. HIGHWAY STANDARD 780001.				

TYPICAL RECESSED PAVEMENT MARKER INSTALLATION



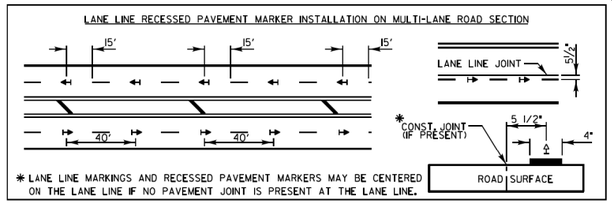


RECESSED PAVEMENT MARKER LEGEND
OR RECESSED PAVEMENT MARKER, DOUBLE YELLOW
RECESSED PAVEMENT MARKER, WHITE AND RED

RECESSED PAVEMENT MARKER NOTES:
1. CENTERLINE RECESSED PAVEMENT MARKERS (RPM's) SHALL BE PLACED ON ALL TWO AND THREE LANE HIGHWAYS WITH CURVES OVER 3 1/2 DEGREES, UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
2. SPACING = 40' FOR CENTERLINE MARKERS.
3. ALL RPM's ON CENTERLINE ARE 2-WAY YELLOW. LANE LINE MARKERS ARE WHITE/RED.
4. MARKERS SHALL BE INSTALLED ACCORDING TO F.H.W.A. MEMORANDUM HIO-21.
5. MARKERS SHALL BE FIELD ADJUSTED TO BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH CENTERLINE.
6. RPM's WHICH ARE TO BE LOCATED WITHIN THE INTERSECTION OF A CROSS STREET, SHALL NOT BE INSTALLED.
7. A MINIMUM OF 4 WHITE/RED MARKERS SHALL BE INSTALLED ALONG THE TURN LANE LINE.
8. RPM's INSTALLED ON MULTI-LANE ROAD SECTIONS SHALL BE INSTALLED ON THE WHITE SKIP-DASH LANE LINE ONLY. THESE RPM's SHALL BE LOCATED IN CENTER OF THE 30' GAP OF A 30'/10' SKIP/DASH LANE LINE.

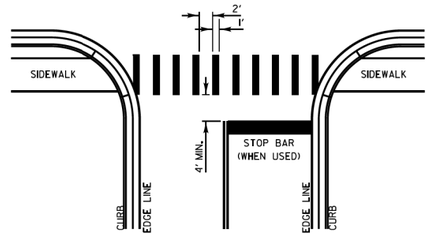
CENTER LINE RECESSED PAVEMENT MARKER INSTALLATION DETAILS

LANE LINE RECESSED PAVEMENT MARKER INSTALLATION ON MULTI-LANE ROAD SECTION



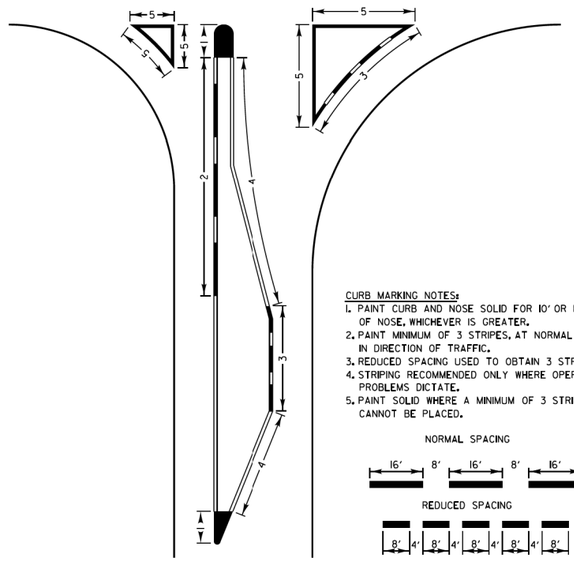
* LANE LINE MARKINGS AND RECESSED PAVEMENT MARKERS MAY BE CENTERED ON THE LANE LINE IF NO PAVEMENT JOINT IS PRESENT AT THE LANE LINE.

CROSSWALKS



CROSSWALK NOTES:
1. THE WIDTH OF THE CROSSWALK IS GENERALLY 6' EXCEPT AT SCHOOL CROSSINGS AND MULTIUSE PATH CROSSINGS, WHICH CAN BE 8' OR 10' WIDE.
2. THE STOP BAR SHALL BE INSTALLED A MINIMUM OF 4' IN ADVANCE OF THE CROSSWALK.

CURB MARKING

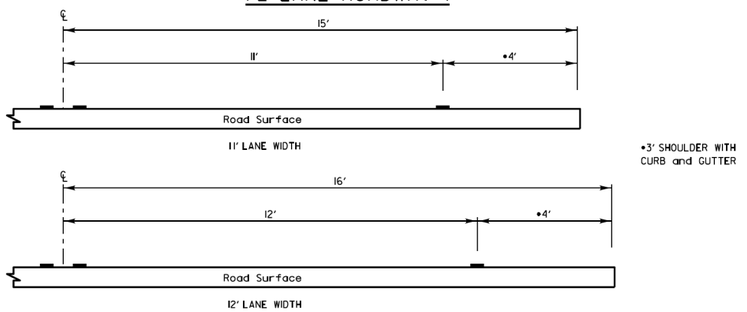


CURB MARKING NOTES:
1. PAINT CURB AND NOSE SOLID FOR 10' OR RADIUS OF NOSE, WHICHEVER IS GREATER.
2. PAINT MINIMUM OF 3 STRIPES, AT NORMAL SPACING, IN DIRECTION OF TRAFFIC.
3. REDUCED SPACING USED TO OBTAIN 3 STRIPE MINIMUM.
4. STRIPING RECOMMENDED ONLY WHERE OPERATIONAL PROBLEMS DICTATE.
5. PAINT SOLID WHERE A MINIMUM OF 3 STRIPES CANNOT BE PLACED.

NORMAL SPACING

REDUCED SPACING

PAVEMENT CROSS SECTION SHOWING TYPICAL PAVEMENT MARKINGS (2-LANE ROADWAY)



*3' SHOULDER WITH CURB and GUTTER

NOTE:
CENTERLINE MARKINGS ARE 4" LINES AT 11" CENTERS.

REVISIONS	DATE
SEPARATED RAILROAD SHEET	06/02/08
REVISED RPM DETAILS	07/1/12
RAISED TO RECESSED MARKERS	12/2/13
REMOVE STATION NUMBERS	5/30/14
THERMO EDGELINES at RETURNS	11/18/16
ALL PM TO GROOVED THERMO	1/26/17
REVISED EDGELINES at RETURNS	4/10/17
REVISED STOB BAR/DBL YELLOW	8/31/17

LakeCounty Division of Transportation

APPROVED BY: A. KHAWAJA
DATE: APRIL 1, 2007

TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS
SHEET 2 OF 2

LC7800

REVISIONS / REMARKS						
NO.	DESCRIPTION	DATE	BY	SURVEYOR:	/	
		/ /		DSGNR/LIAISON:		
		/ /		PLOTTED BY:	hdrmc 9/5/2017	

FILE NAME: C:\Users\hdrmc\Desktop\LC7800 TYPICAL PAVEMENT MARKINGS FOR COUNTY HIGHWAYS.dgn

LakeCounty Division of Transportation

PROJECT NAME
LAKE COUNTY STANDARDS & DETAILS

ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
CHXX	XXX	XX-XXXXX-XX-XX	XXX	XXX

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BAXTER & WOODMAN Consulting Engineers

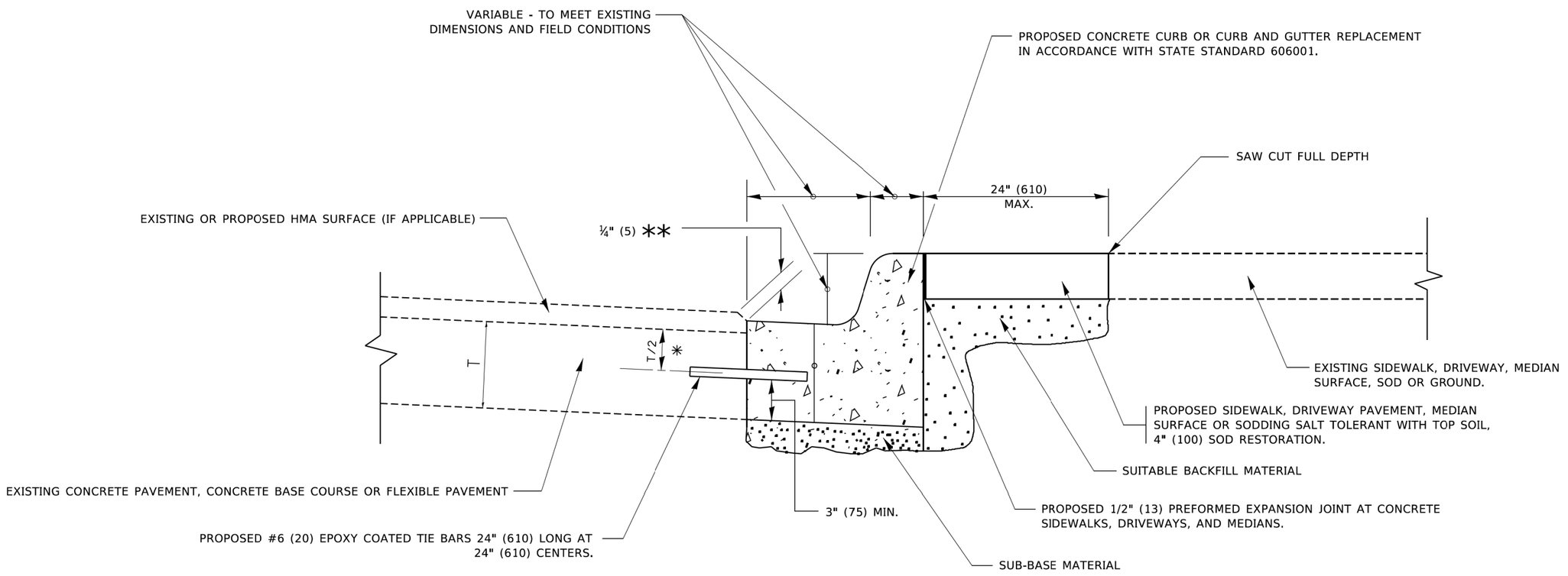
USER NAME = kroberson	DESIGNED - JA	REVISED -	
	DRAWN - MAC	REVISED -	
PLOT SCALE = 20.0000 ' / in.	CHECKED - JDW	REVISED -	
PLOT DATE = 4/10/2025	DATE - 4-10-2025	FILE - 2401606_ITEP_SHT-Details.dgn	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LAKE COUNTY DETAILS

SCALE: | SHEET 2 OF 2 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
178/188	21-00085-00-BT	LAKE	28	17b
		CONTRACT NO. 61L52		
		ILLINOIS FED. AID PROJECT		



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

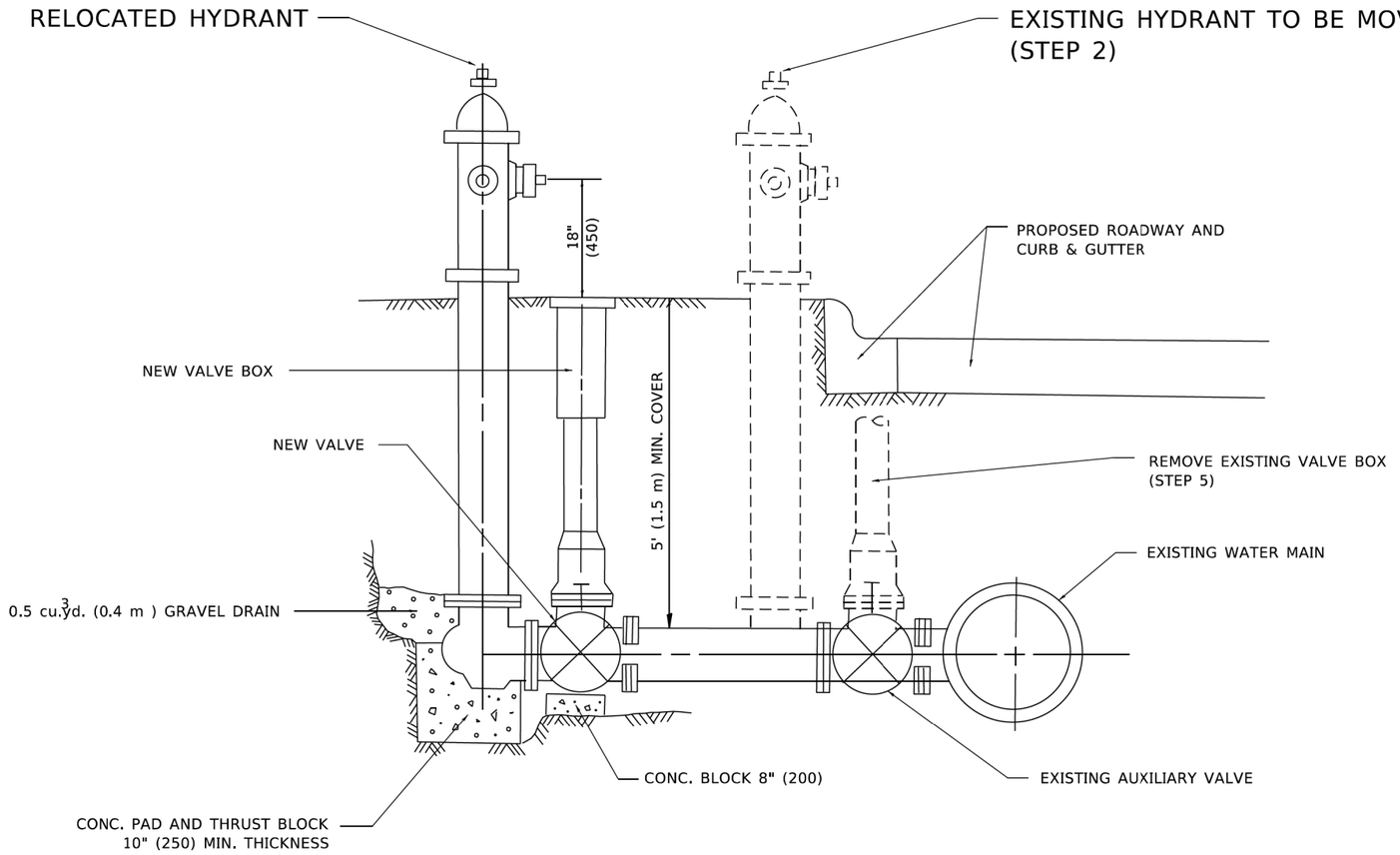
USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	
	DRAWN -	REVISED - M. GOMEZ 01-22-01	
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09	
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
078/0188	21-00085-00-BT	LAKE	28	18
	BD600-06 (BD-24)	CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			



SEQUENCE OF CONSTRUCTION:

1. CLOSE EXISTING VALVE.
2. REMOVE EXISTING HYDRANT.
3. INSTALL HYDRANT EXTENSION AND NEW VALVE.
4. RELOCATE EXISTING HYDRANT.
5. OPEN EXISTING VALVE, REMOVE BOX.
6. BACKFILL.
7. FLUSH AND TEST FOR CHLORIDE RESIDUAL AND PROVIDE TEST.

NOTE:

ALL WORK TO BE DONE IN ACCORDANCE WITH SECTION 564 OF THE STANDARD SPECIFICATIONS. NEW VALVE AND BOX SHALL BE SAME MAKE AND MODEL AS EXISTING.

FIRE HYDRANT TO BE MOVED

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

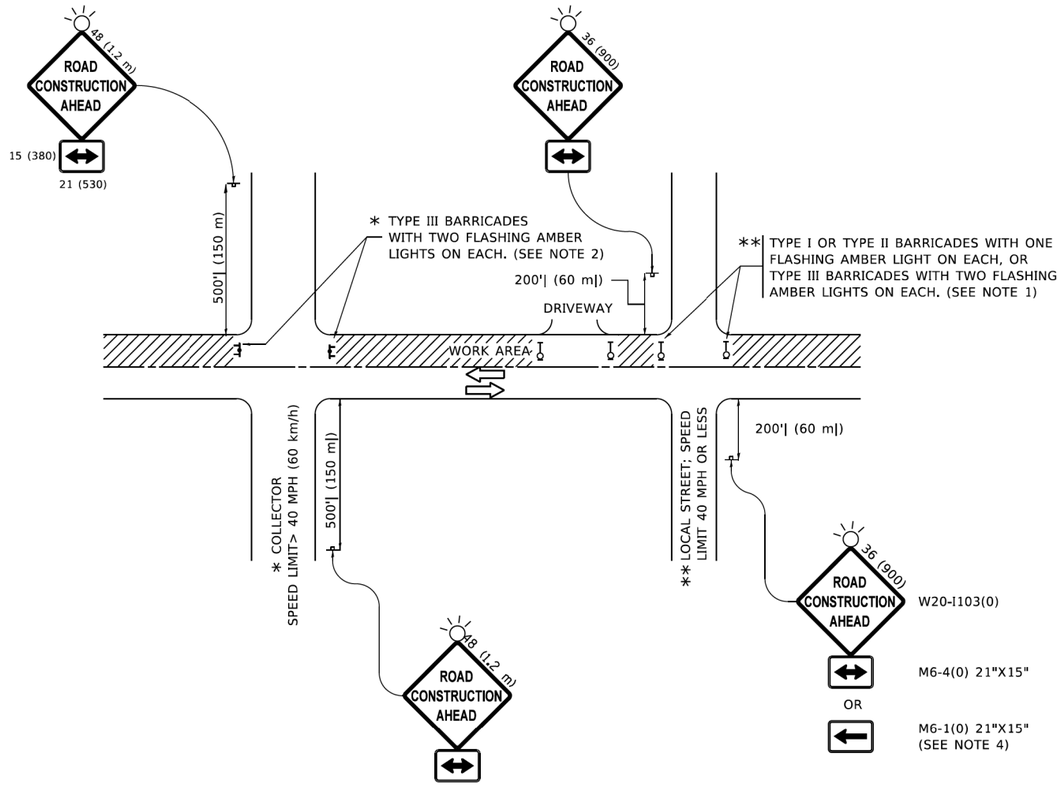
USER NAME = Lawrence.DeManche	DESIGNED -	REVISED - R. SHAH 09-09-94	
	DRAWN -	REVISED - R. SHAH 10-25-94	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. SMITH 11-18-22	
PLOT DATE = 11/18/2022	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FIRE HYDRANT TO BE MOVED

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
078/0188	21-00085-00-BT	LAKE	28	19
	BD-36	CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in inches (millimeters) unless otherwise shown.

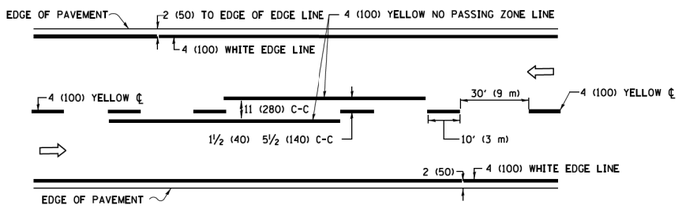
USER NAME = Lawrence.DeManche	DESIGNED - L.H.A.	REVISED - T. RAMMACHER 01-06-00	
	DRAWN -	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 5/3/2024	DATE - 06-89	REVISED - D. SENDERAK 05-03-24	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

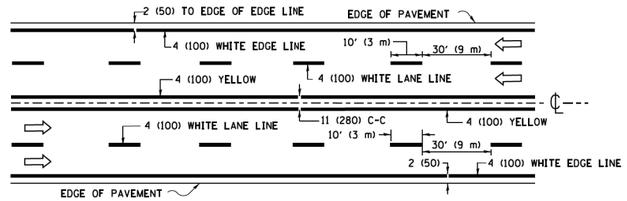
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

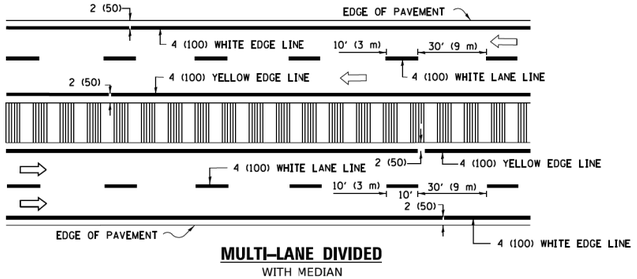
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0 78/0188	21-00085-00-BT	LAKE	28	20
	TC-10	CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

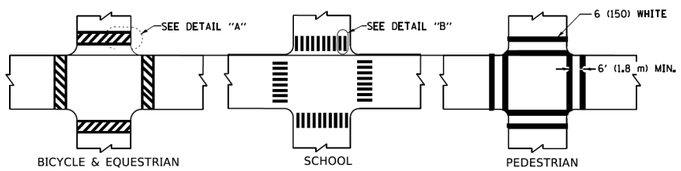


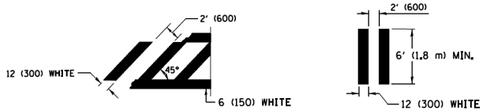
MULTI–LANE UNDIVIDED



MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

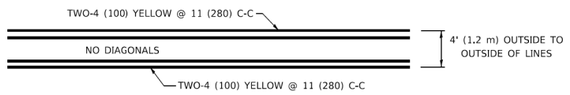




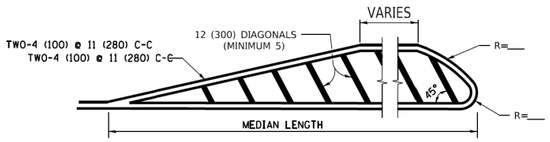
DETAIL "A" **DETAIL "B"**

TYPICAL CROSSWALK MARKING

✱ MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



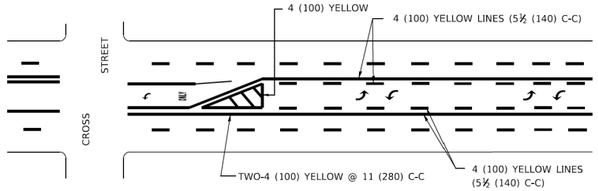
4' (1.2 m) WIDE MEDIANS ONLY



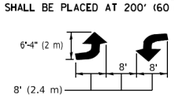
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

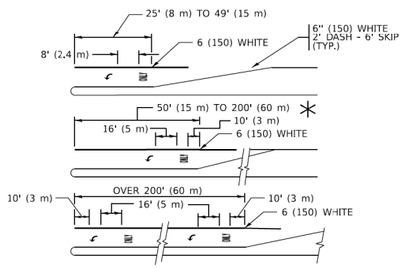


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

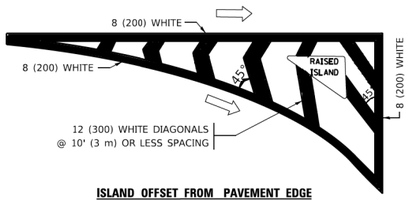


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) **ONLY** AREA = 20.8 SQ. FT. (1.9 m²)

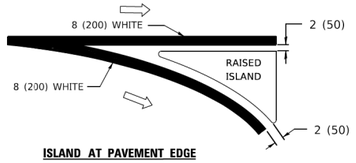
✱ TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

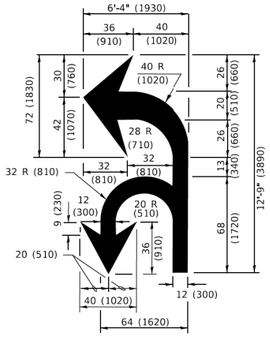


ISLAND OFFSET FROM PAVEMENT EDGE

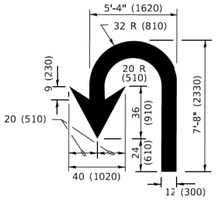


ISLAND AT PAVEMENT EDGE

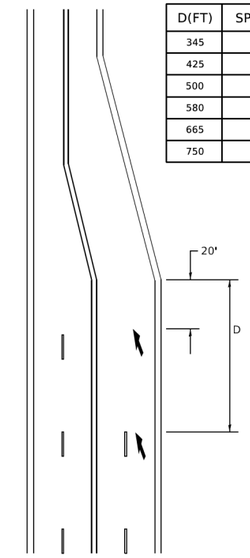
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

LANE REDUCTION TRANSITION

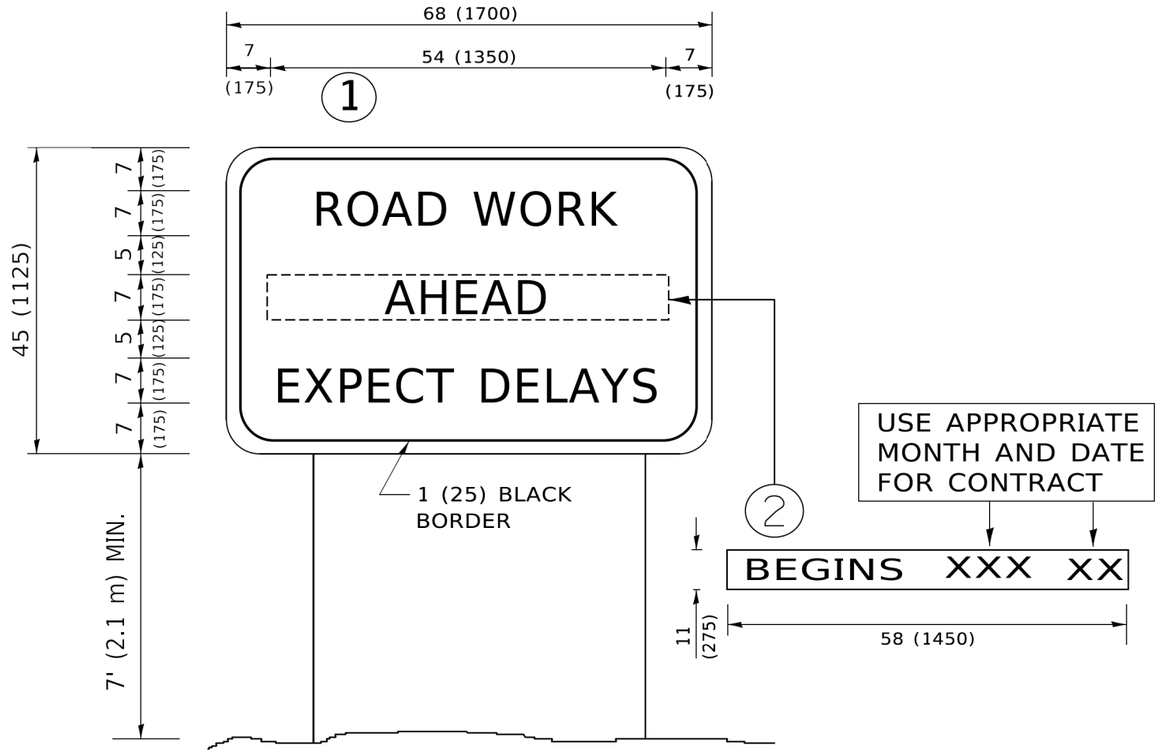
✱ LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m² EACH "X"=54.0 SQ. FT. (5.0 m²
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**DISTRICT ONE** **TYPICAL PAVEMENT MARKINGS**	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED - C. JUCIUS 07-01-13			078/0188	21-00085-00-BT	LAKE	28	21
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15				**TC–13**	CONTRACT NO. 61L52		
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16		SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.			ILLINOIS	FED. AID PROJECT	



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED -	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

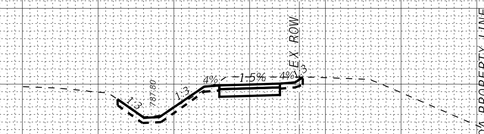
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
078/0188	21-00085-00-BT	LAKE	28	22
	TC-22	CONTRACT NO. 61L52		
	ILLINOIS FED. AID PROJECT			

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

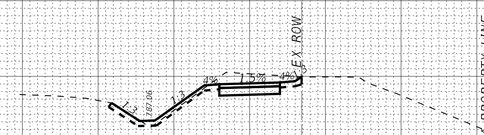
795
790
785
780

53 + 00

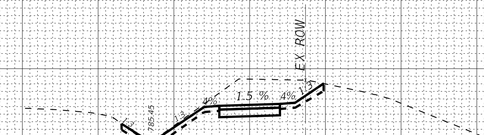


CUT=17.3 SF FILL=1.6 SF TPSL REM=17.7 SF

52 + 50



52 + 00



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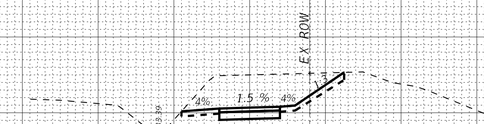
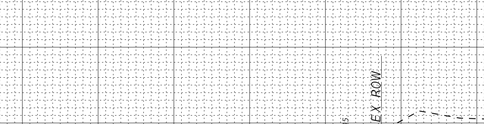
51 + 50



51 + 00



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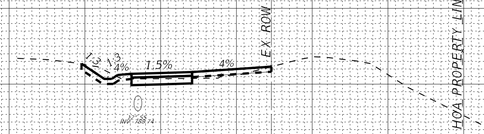
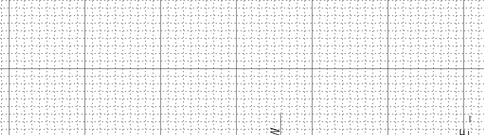
54 + 50



54 + 06

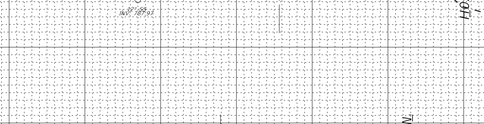
54 + 00



CUT=7.8 SF FILL=11.7 SF TPSL REM=14.3 SF

53 + 50

53 + 12



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

FINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

ORIGINAL SURVEY		BY	DATE
	SURVEYED		
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

MODEL: Default
FILE NAME: P:\ROJ\ILK\021656-ITEP Bike Path\CAD\Sheets\24016606 ITEP SHT-XSec-Wilson.dgn

BAXTER & WOODMAN Consulting Engineers

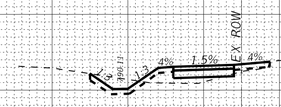
USER NAME = javila	DESIGNED - CM	REVISED -	**STATE OF ILLINOIS**	**CROSS SECTIONS**	
	DRAWN - KAR	REVISED -	**DEPARTMENT OF TRANSPORTATION**	**WILSON ROAD**	
PLOT SCALE = 10.0000 ' / in.	CHECKED - CAC	REVISED -		SCALE:H:1"=10';V=1"=5' SHEET 1 OF 3 SHEETS STA. 51+00 TO STA. 54+50	
PLOT DATE = 4/18/2025	DATE - 4-10-2025	REVISED -			

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	23
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

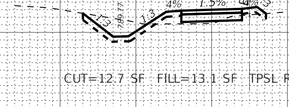
795 / 790

56 + 50



795 / 790

56 + 00



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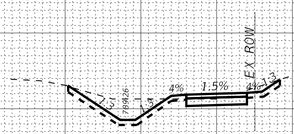
795 / 790

55 + 50

795 / 790

55 + 00



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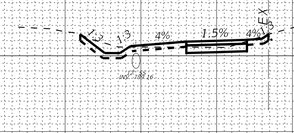
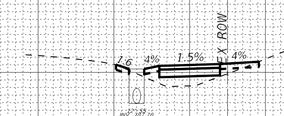
795 / 790

54 + 85



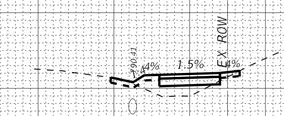
795 / 790 / 785

57 + 83



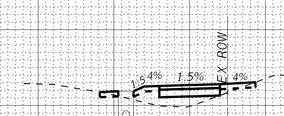
795 / 790

57 + 50



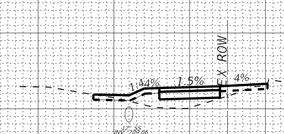
795 / 790

57 + 11



795 / 790

57 + 00



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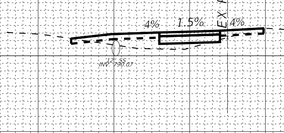
795 / 790

56 + 58



80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

FINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

ORIGINAL SURVEY	NOTE BOOK	NO.
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

BY	DATE

MODEL: Default
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BAXTER & WOODMAN Consulting Engineers

USER NAME = javila	DESIGNED - CM	REVISED -
	DRAWN - KAR	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED - CAC	REVISED -
PLOT DATE = 4/18/2025	DATE - 4-10-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILSON ROAD

SCALE: H:1"=10', V=1"=5' | SHEET 2 OF 3 SHEETS | STA. 54+85 TO STA. 57+83

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	24
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

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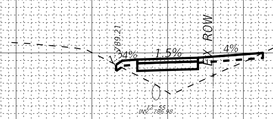
50 40

790
785

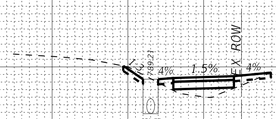
59+00



CUT=0 SF FILL=41.3 SF TPSL REM=14.4 SF

790
785

58+66



HOA PROPERTY LINE

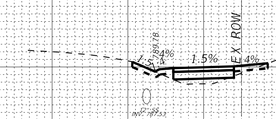
790
785

58+50

HOA PROPERTY LINE

790
785

58+00



HOA PROPERTY LINE

EX. ESMT

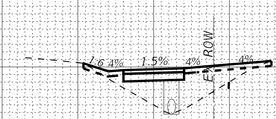
CUT=0 SF FILL=14.4 SF TPSL REM=12.7 SF

790
785

59+50

790
785

59+13



790
785

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60 80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

ORIGINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

FINAL SURVEY

	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
AREAS		
AREAS CHECKED		

NOTE BOOK
NO.

MODEL: Default
FILE NAME: P:\ROULK0211656\TEP Bike Path\CAD\Sheets\24011606 ITEP SHT-XSec-Wilson.dgn

BAXTER & WOODMAN Consulting Engineers

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		DRAWN -	KAR	REVISED -	
PLOT SCALE = 10.0000 ' / in.		CHECKED -	CAC	REVISED -	
PLOT DATE = 4/18/2025		DATE -	4-10-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WILSON ROAD

SCALE: H:1"=10';V=1"=5' | SHEET 3 OF 3 SHEETS | STA. 58+00 | TO STA. 59+50

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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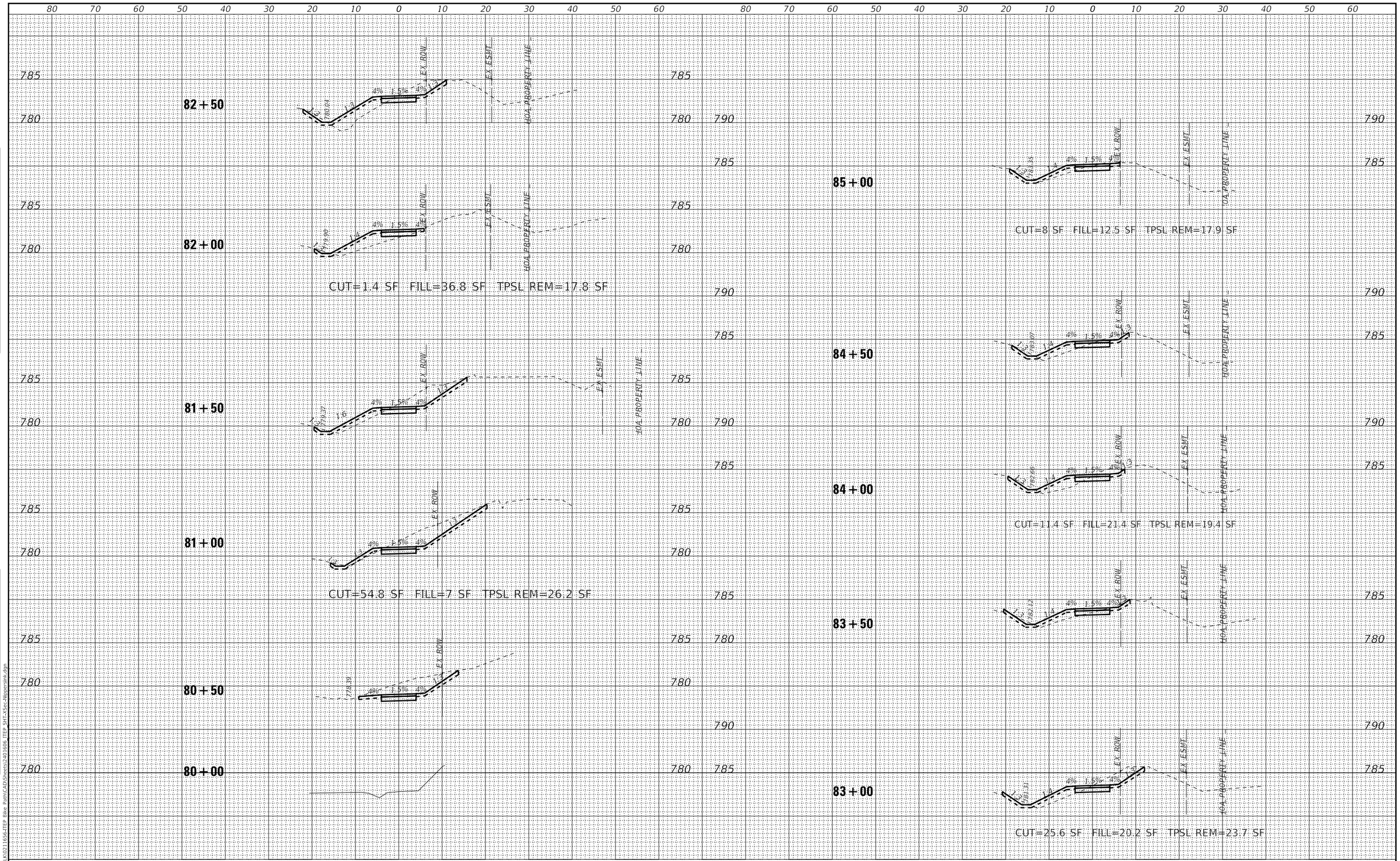
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

ORIGINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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BAXTER & WOODMAN Consulting Engineers

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	DRAWN - KAR	REVISED -	
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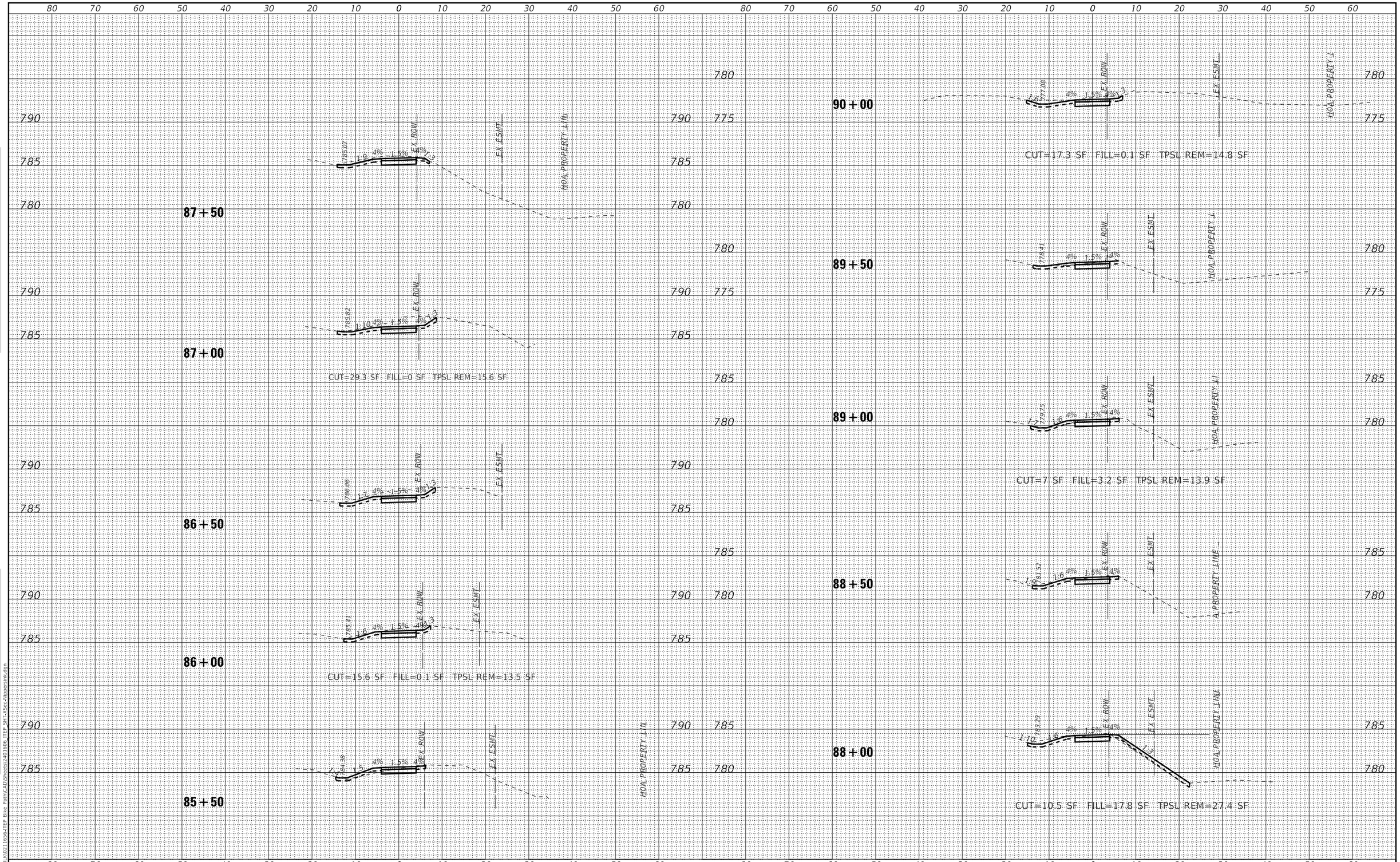
PLOT DATE = 4/10/2025	DATE - 4-10-2025	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
NIPPERSINK ROAD

SCALE: H:1"=10';V=1"=5' | SHEET 1 OF 3 SHEETS | STA. 80+00 | TO STA. 85+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	26
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	



FINAL SURVEY — NOTE BOOK — NO. — SURVEYED — PLOTTED — TEMPLATE — AREAS — AREAS CHECKED — BY — DATE

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BAXTER & WOODMAN Consulting Engineers

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PLOT DATE = 4/10/2025	DATE - 4-10-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
NIPPERSINK ROAD

SCALE: H:1"=10', V=1"=5' | SHEET 2 OF 3 SHEETS | STA. 85+50 TO STA. 90+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	27
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	

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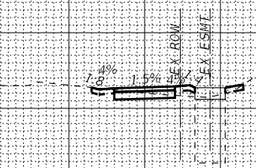
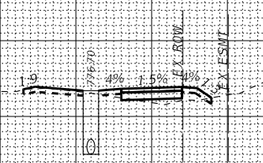
780
775

90+76



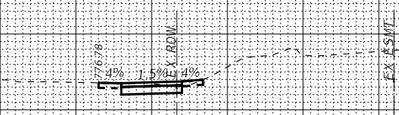
780
775

90+69



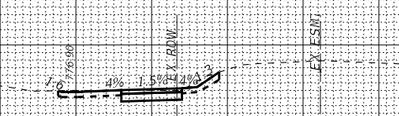
780
775

90+50



780
775

90+33



780
775

80 70 60 50 40 30 20 10 0 10 20 30 40 50 60

ORIGINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

FINAL SURVEY
NOTE BOOK
NO.
SURVEYED
PLOTTED
TEMPLATE
AREAS
AREAS CHECKED
BY
DATE

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BAXTER & WOODMAN Consulting Engineers

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PLOT SCALE = 10.0000 ' / in.	CHECKED - CAC	REVISED -
PLOT DATE = 4/10/2025	DATE - 4-10-2025	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
NIPPERSINK ROAD

SCALE: H:1"=10', V=1"=5' | SHEET 3 OF 3 SHEETS | STA. 90+33 TO STA. 90+76

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0178/0188	21-00085-00-BT	LAKE	28	28
		CONTRACT NO.		
		ILLINOIS	FED. AID PROJECT	