06-15-2018 LETTING ITEM 009

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	1
		ILLINOIS	CONTRACT NO. 62C84	

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF MARENGO, RILEY AND DUNHAM TOWNSHIPS

PROPOSED HIGHWAY PLANS

FAP ROUTE 324: IL 23
US 14 TO I-90 (JANE ADDAMS MEMORIAL TOLLWAY)
SECTION: (23&24)RS-2
RECURFACING /PEDESTRIAN RAMPS
PROJECT: NHPP-YRTZ(879)
MCHENRY COUNTY

C-91-391-16

D-91-391-16

LOCATION OF SECTION INDICATED THUS:-

TRAFFIC DATA

2016 ADT = 10500

POSTED SPEED = 30-55 MPH

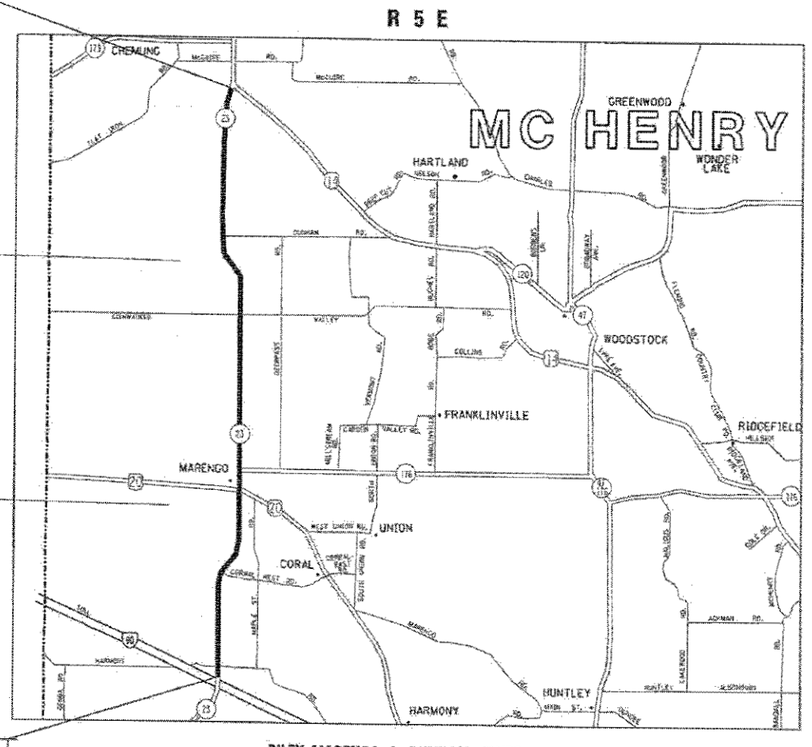
PROJECT ENDS STA 844+00

R 5 E

T 45 N

T 44 N

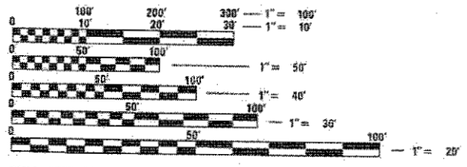
T 43 N



PROJECT BEGINS STA 44+75

RILEY, MARENGO & DUNHAM TWPS

GROSS LENGTH = 79925 FT. = 15.14 MILE



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.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 13 20 18
Anthony J. Quigley / CAS
REGIONAL ENGINEER

May 11 20 18
ENGINEER OF DESIGN AND ENVIRONMENT

May 11 20 18
Paul P. [illegible]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PROJECT ENGINEER: MIDY, J. ALAIN (847) 221-3056
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62C84

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

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STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-10	PREPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-03	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-04	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-04	DEPRESSED CORNER FOR SIDEWALKS
442101-08	CLASS B PATCHES
442201-03	CLASS C AND D PATCHES
606001-07	COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-08	SHOULDER WIDENING FOR TYPE I (SPECIAL) GUARDRAIL TERMINALS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, FROM PAVEMENT EDGE 15' (4.5 m) TO 24" (600 mm)
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 mph
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE , MULTILANE, INTERMITTENT OR MOVING OPERATIONS FOR SPEEDS > 45 MPH
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701502-08	URBAN LANE CLOSURE 2L, 2W, BY-DIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	LANE CLOSURE MULTILANE, 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-07	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.

TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF MARENGO.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACING PERMANENT PAVEMENT MARKINGS.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.

PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

SIDEWALK RAMPS MODIFICATIONS WITHIN THE LIMITS OF THE PROJECT SHALL CONFORM TO THE APPLICABLE HIGHWAY STANDARDS INCLUDED IN THE PLANS.

THE COST OF SURFACE REMOVAL IN THE GUTTER FLAG SHALL BE INCLUDED IN THE COST OF OF "HOT-MIX ASPHALT SURFACE REMOVAL 2 1/4" PAY ITEM.

CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT AT (847) 705-4171 AT LEAST TWO (2) WEEKS PRIOR TO BEGINING FORESTRY WORK FOR LAYOUT.

SEEDING WILL BE DONE IN THE AREAS WHERE TREE REMOVAL IS SPECIFIED.

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	234	234					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	433	433					
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	81	81					
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	71	71					
20200100	EARTH EXCAVATION	CU YD	63	63					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	233	233					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	3	3					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	3	3					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	3	3					
25000750	MOWING	ACRE	5	5					
25100115	MULCH, METHOD 2	ACRE	1.1	1.1					
25200110	SODDING, SALT TOLERANT	SQ YD	233	233					
25200200	SUPPLEMENTAL WATERING	UNIT	3	3					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	2.5	2.5					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	174866	174866					
15									
	* SPECIALTY ITEMS								

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	3886	3886					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	10687	10687					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	2105	2105					
40600985	PORTLAND SURFACE CONCRETE REMOVAL - BUTT JOINT	SQ YD	1315	1315					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	0.3	0.3					
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	25388	25388					
42001300	PROTECTIVE COAT	SQ YD	1065	1065					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	19	19					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6298	6298					
42400800	DETECTABLE WARNINGS	SQ FT	690	690					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	232690	232690					
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	22	22					
44000600	SIDEWALK REMOVAL	SQ FT	6298	6298					
44200948	CLASS B PATCHES, TYPE I, 9 INCH	SQ YD	55	55					
44200956	CLASS B PATCHES, TYPE II, 9 INCH	SQ YD	1680	1680					
44200962	CLASS B PATCHES, TYPE III, 9 INCH	SQ YD	600	600					
17 44200964	CLASS B PATCHES, TYPE IV, 9 INCH	SQ YD	1000	1000					

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 23 (US 14 TO I-90)
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	3

CONTRACT NO. 62C84

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

REV

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
44201798	CLASS D PATCHES, TYPE I, 13 INCH	SQ YD	650	650					
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	5820	5820					
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	3880	3880					
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	2580	2580					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	4005	4005					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	3	3					
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2	2					
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	100	100					
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2					
63200310	GUARDRAIL REMOVAL	FOOT	150	150					
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	70	70					
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	1					
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5	5					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12					
67100100	MOBILIZATION	LSUM	1	1					
5	* SPECIALTY ITEMS								

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1					
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	LSUM	1	1					
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1					
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1					
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1					
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1					
70300100	SHORT TERM PAVEMENT MARKING	FOOT	45035	45035					
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	15030	15030					
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	940	940					
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	244530	244530					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5400	5400					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	2880	2880					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1410	1410					
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	22905	22905					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	940	940					
16									

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 23 (US 14 TO I-90)
SUMMARY OF QUANTITIES

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	4

CONTRACT NO. 62C84

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

REV

URBAN

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
	CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	244530	244530					
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5400	5400					
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2880	2880					
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1410	1410					
*	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	740	740					
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	3223	3223					
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2000	2000					
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	1413	1413					
	K0029618	WEED CONTROL, BROADLEAF IN TURF	GALLON	3	3					
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1					
	X0326864	BRICK SIDEWALK REMOVAL	SQ FT	23	23					
	X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	1.1	1.1					
	X2010400	STUMP REMOVAL ONLY	UNIT	24	24					
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	1280	1280					
	X2501800	SEEDING, CLASS 4 (MODIFIED)	ACRE	1.1	1.1					
	X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	8164	8164					

URBAN

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE 0005					
	CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					
Δ	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1000	1000					
Δ	X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	800	800					
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	51	51					
	X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	97382	97382					
	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1659	1659					
Δ	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	125	125					
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	102.8	102.8					
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	LSUM	1	1					
	Z0076600	TRAINEES	HOUR	500	500					
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500					

Δ NON PARTICIPATING ITEMS

* SPECIALTY ITEMS

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 23 (US 14 O I-90)
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CONTRACT NO. 62C84

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT

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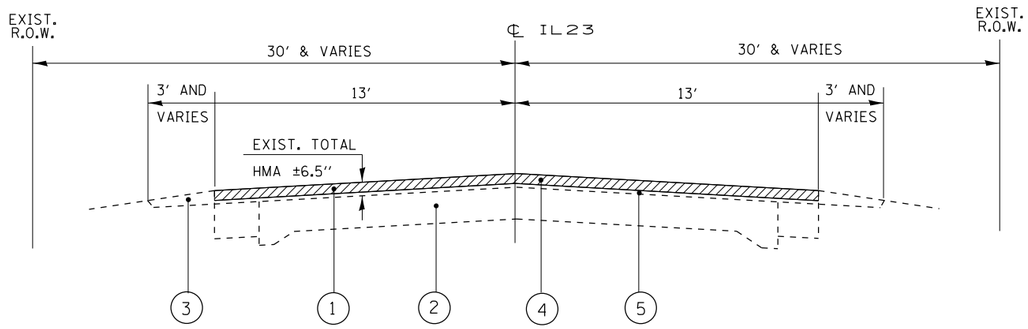
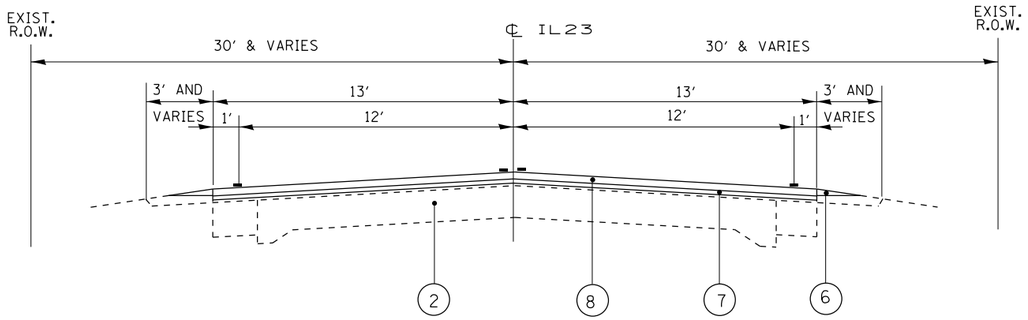


EXISTING SECTION

STA 44+75 TO STA 224+00
STA 356+17 TO STA 383+83
STA 407+90 TO STA 831+45



PROPOSED SECTION

STA 44+75 TO STA 224+00
STA 356+17 TO STA 383+83
STA 407+90 TO STA 831+45

OMISSION OF RESURFACING:
STA 80+90 TO STA 84+20
STA 159+27.5 TO STA 169+26.6
STA 348+20 TO STA 350+80

LEGEND

1. EXISTING HMA SURFACE ± 6.5″
2. EXISTING PCC PAVEMENT 9″-7″-9″
3. EXISTING AGGREGATE SHOULDER
4. PROPOSED HMA SURFACE REMOVAL 2½″
5. EXISTING HMA PAVEMENT AFTER MILLING ± 4″
6. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
7. PROPOSED POLY. LEVELING BINDER (MM), IL -4.75, N 50, ¾″
8. PROPOSED POLY. HMA SURFACE COURSE, MIX ″E″, N 70, 1¾″
9. EXIST. HMA SHOULDER
10. EXIST. AGGREGATE SUBGRADE 12″
11. EXIST. PCC PAVEMENT 9″
12. EXIST. CURB AND GUTTER
13. PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS Ndes	
PAVEMENT RESURFACING AND SHOULDERS		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX ″E″, N70 (IL -9.5 mm)	4% @ 70 GYR.	PFP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL -4.75, N 50	3.5% @ 50 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER IL -19 mm)	4% @ 70 GYR.	QC/QA
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX ″D″, N50 (IL -9.5 mm); 2″	4% @ 50 GYR.	QC/QA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); PE -6	4% @ 50 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL / QUALITY ASSURANCE (QC / QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE:

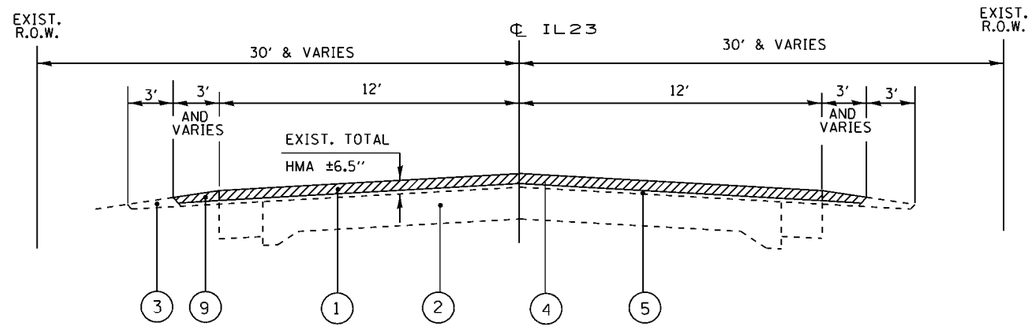
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LBS/SQ. YD./IN.

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 DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

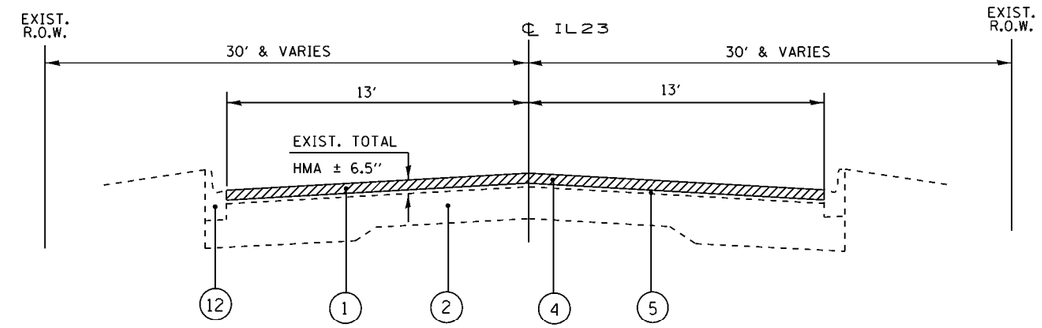
QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUANTITY CONTROL SPECIFICATION THAT APPLIES TO THE MIXTURE.

THE CONTRACTOR SHALL MILL BEFORE PATCHING



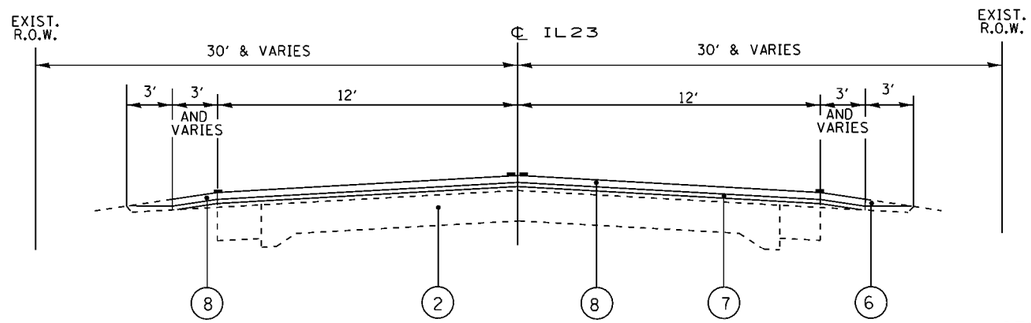
EXISTING SECTION

STA 224+00 TO STA 255+00



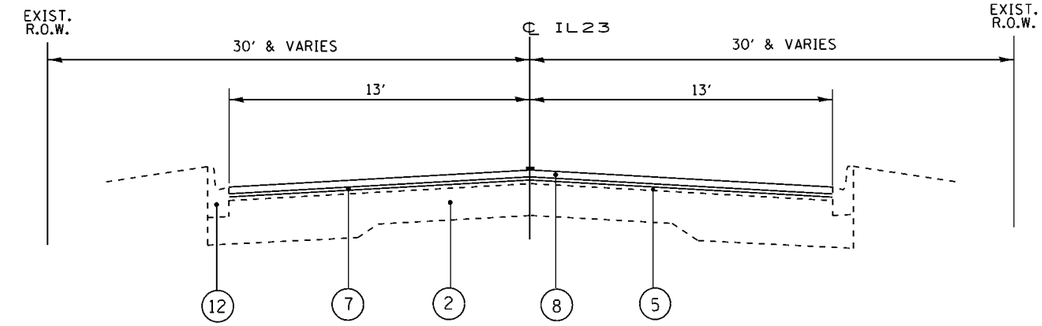
EXISTING SECTION

STA 255+00 TO STA 286+06
STA 337+10 TO STA 344+32



PROPOSED SECTION

STA 224+00 TO STA 255+00



PROPOSED SECTION

STA 255+00 TO STA 286+06
STA 337+10 TO STA 344+32

LEGEND

1. EXISTING HMA SURFACE ± 6.5''
2. EXISTING PCC PAVEMENT 9''-7''-9''
3. EXISTING AGGREGATE SHOULDER
4. PROPOSED HMA SURFACE REMOVAL 2½''
5. EXISTING HMA PAVEMENT AFTER MILLING ± 4''
6. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
7. PROPOSED POLY. LEVELING BINDER (MM), IL -4.75, N 50, ¾''
8. PROPOSED POLY. HMA SURFACE COURSE, MIX "E", N 70, 1¾''
9. EXIST. HMA SHOULDER
10. EXIST. AGGREGATE SUBGRADE 12''
11. EXIST. PCC PAVEMENT 9''
12. EXIST. CURB AND GUTTER
13. PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)

THE CONTRACTOR SHALL MILL BEFORE PATCHING

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			REVISED -			324	(23&24)RS-2	MCHENRY	74	7
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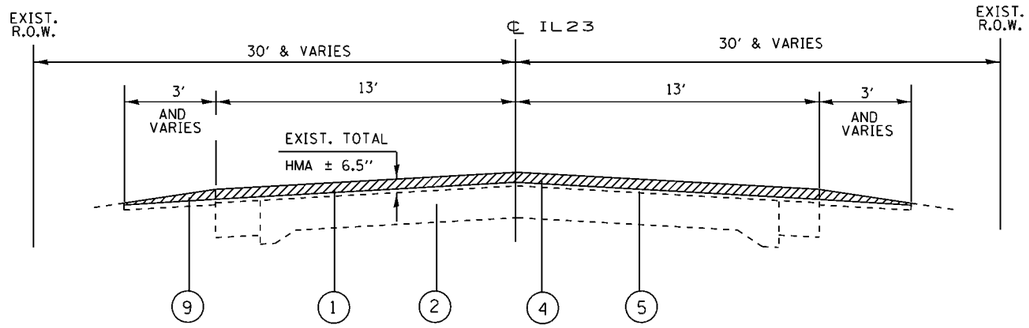
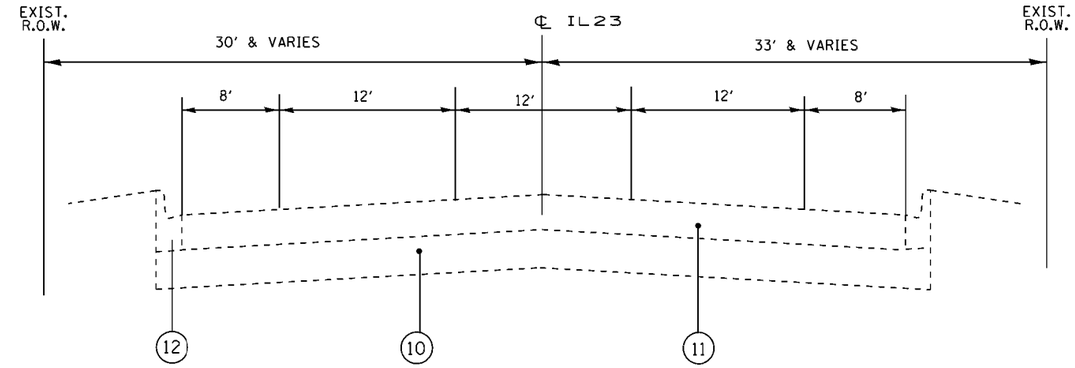
Default	PLOT DATE = 7/6/2017	DATE -	REVISED -		SCALE: SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



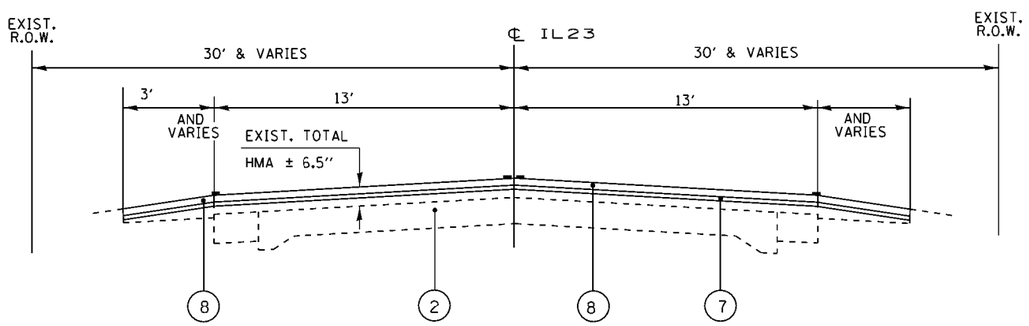
EXISTING SECTION

STA 344+32 TO STA 356+17
STA 383+83 TO STA 407+90
STA 831+45 TO STA 844+00



EXISTING SECTION

STA 286+06 TO STA 290+00

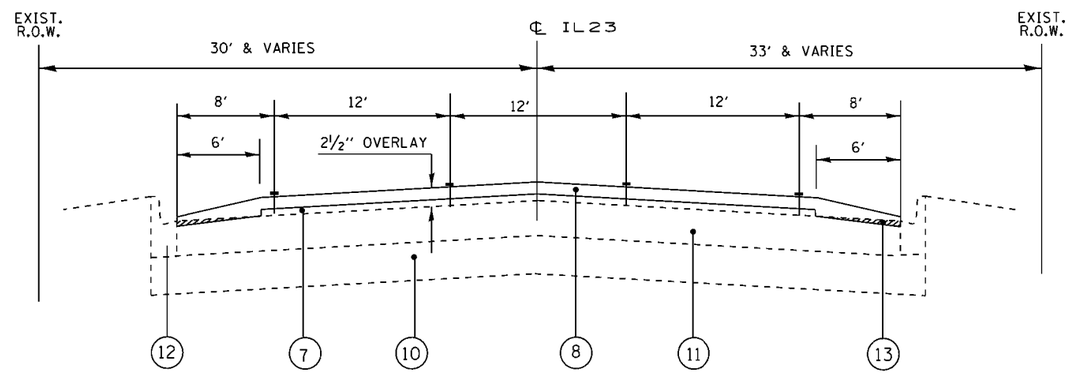


PROPOSED SECTION

STA 344+32 TO STA 356+17
STA 383+83 TO STA 407+90
STA 831+45 TO STA 844+00

LEGEND

1. EXISTING HMA SURFACE ± 6.5″
2. EXISTING PCC PAVEMENT 9″-7″-9″
3. EXISTING AGGREGATE SHOULDER
4. PROPOSED HMA SURFACE REMOVAL 2½″
5. EXISTING HMA PAVEMENT AFTER MILLING ± 4″
6. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
7. PROPOSED POLY. LEVELING BINDER (MM), IL -4.75, N 50, ¾″
8. PROPOSED POLY. HMA SURFACE COURSE, MIX ″E″, N 70, 1¾″
9. EXIST. HMA SHOULDER
10. EXIST. AGGREGATE SUBGRADE 12″
11. EXIST. PCC PAVEMENT 9″
12. EXIST. CURB AND GUTTER
13. PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)



PROPOSED SECTION

STA 286+06 TO STA 290+00

THE CONTRACTOR SHALL MILL BEFORE PATCHING

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

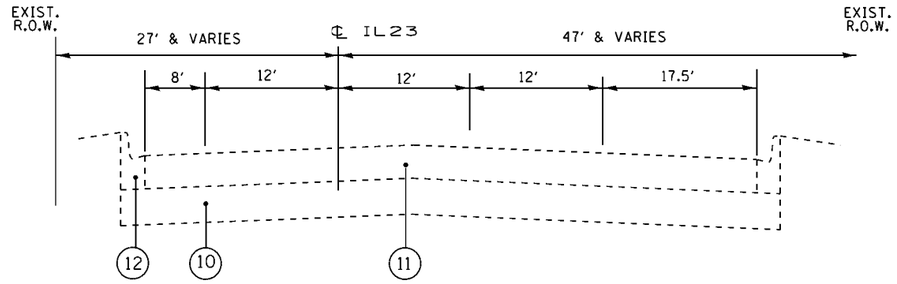
EXISTING AND PROPOSED TYPICAL SECTIONS
IL. ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	8

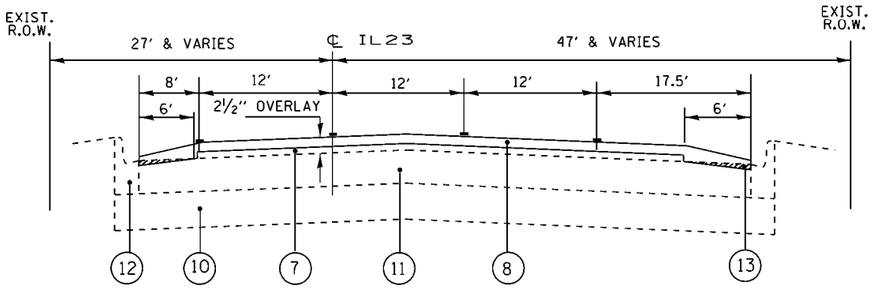
CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



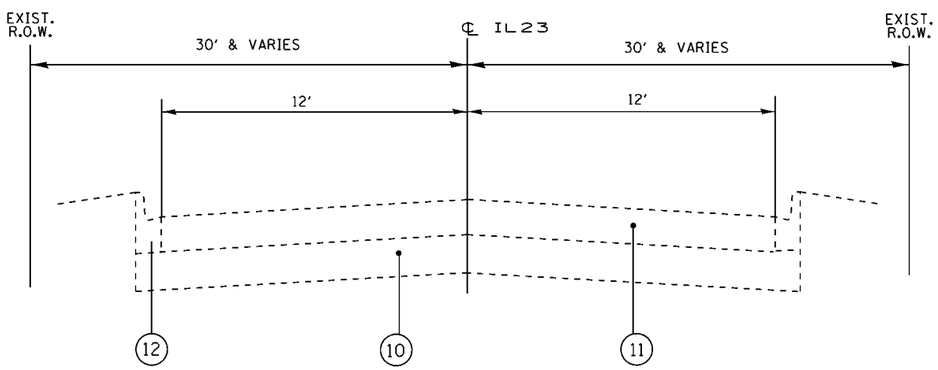
EXISTING SECTION

STA 290+00 TO STA 295+30



PROPOSED SECTION

STA 290+00 TO STA 295+30



EXISTING SECTION

STA 295+30 TO STA 337+10

LEGEND

1. EXISTING HMA SURFACE ± 6.5"
2. EXISTING PCC PAVEMENT 9"-7"-9"
3. EXISTING AGGREGATE SHOULDER
4. PROPOSED HMA SURFACE REMOVAL 2½"
5. EXISTING HMA PAVEMENT AFTER MILLING ± 4"
6. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
7. PROPOSED POLY. LEVELING BINDER (MM), IL -4.75, N 50, ¾"
8. PROPOSED POLY. HMA SURFACE COURSE, MIX "E", N 70, 1¾"
9. EXIST. HMA SHOULDER
10. EXIST. AGGREGATE SUBGRADE 12"
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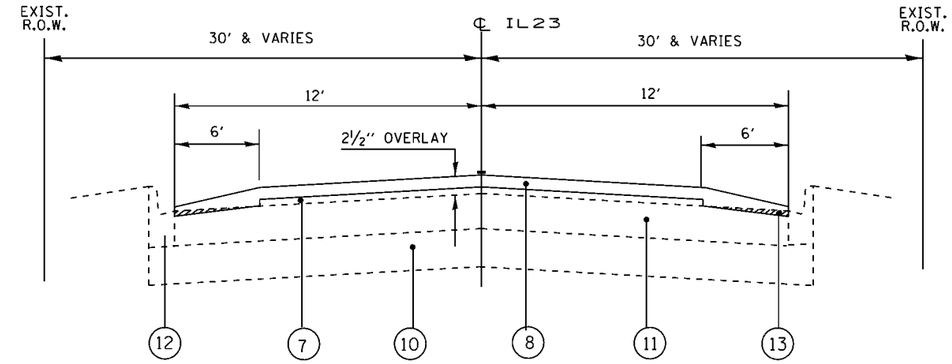
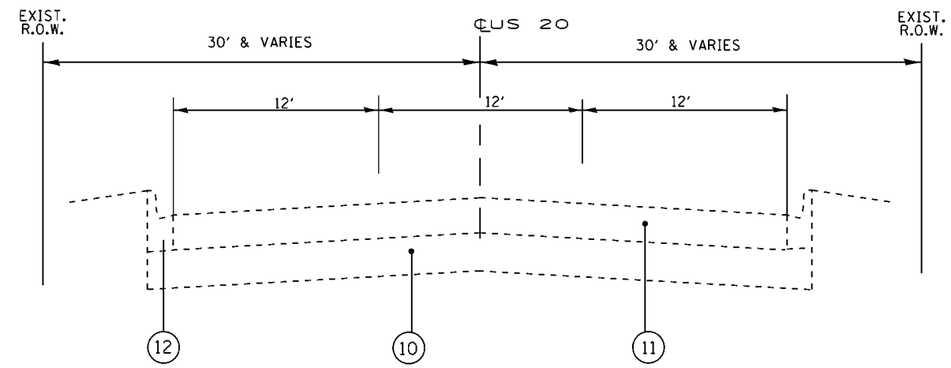
12. EXIST. CURB AND GUTTER
13. PROPOSED PCC SURFACE REMOVAL (VARIABLE DEPTH)

THE CONTRACTOR SHALL MILL BEFORE PATCHING



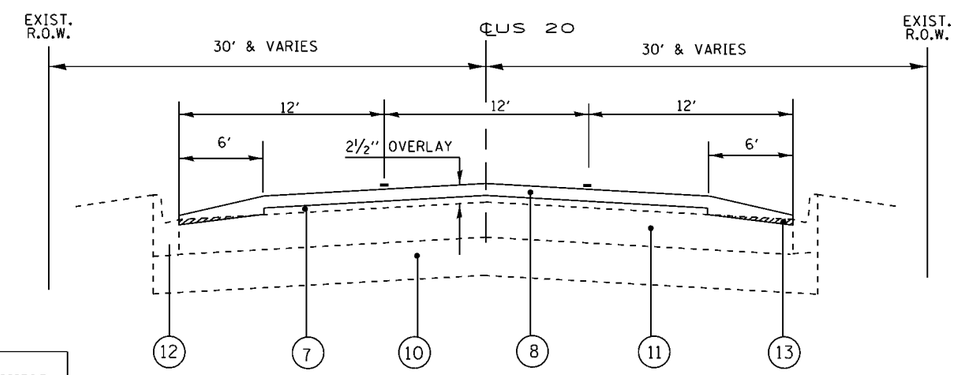
PROPOSED SECTION

STA 295+30 TO STA 337+10



EXISTING SECTION US 20

STA 12+30 TO STA 24+04



PROPOSED SECTION US 20

STA 12+30 TO STA 24+04

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

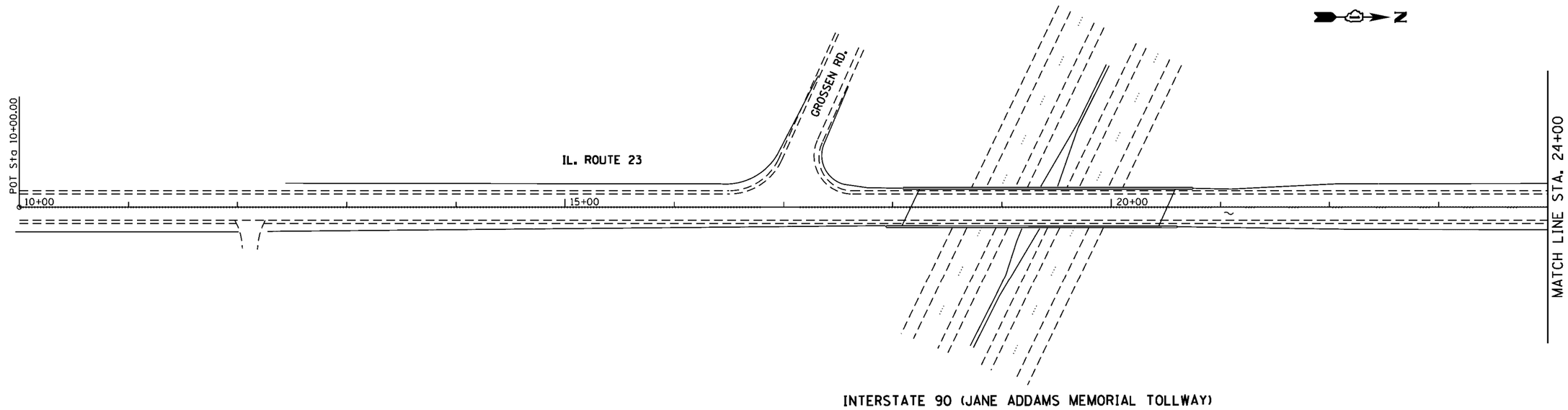
EXISTING AND PROPOSED TYPICAL SECTIONS
IL. ROUTE 23 (I-90 TO US ROUTE 14)

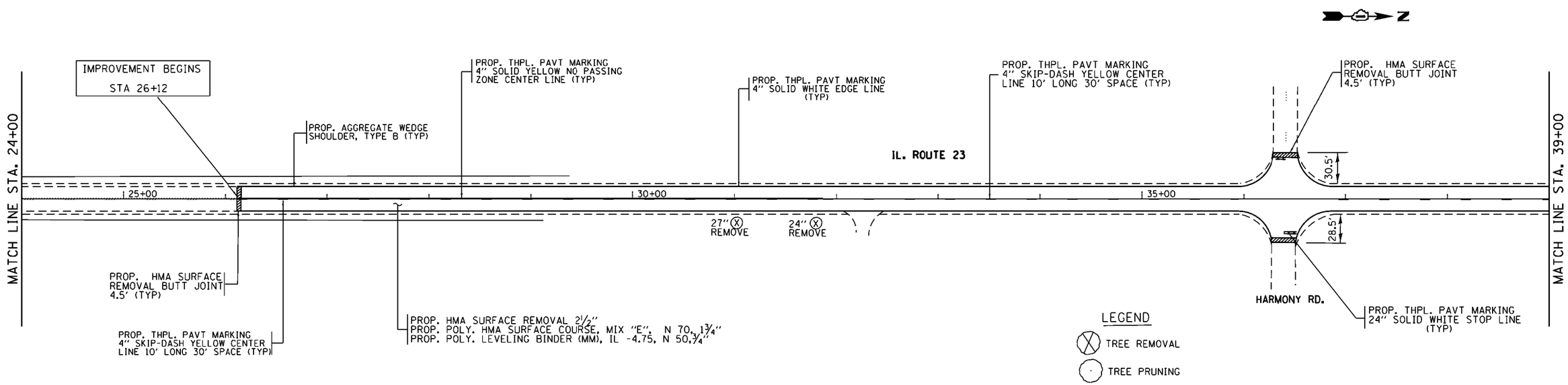
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	9

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





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		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	10
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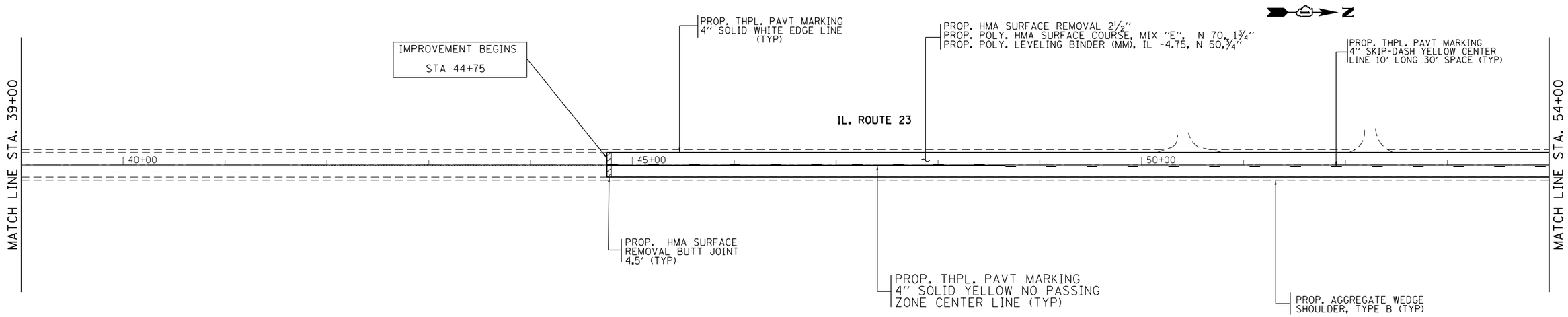
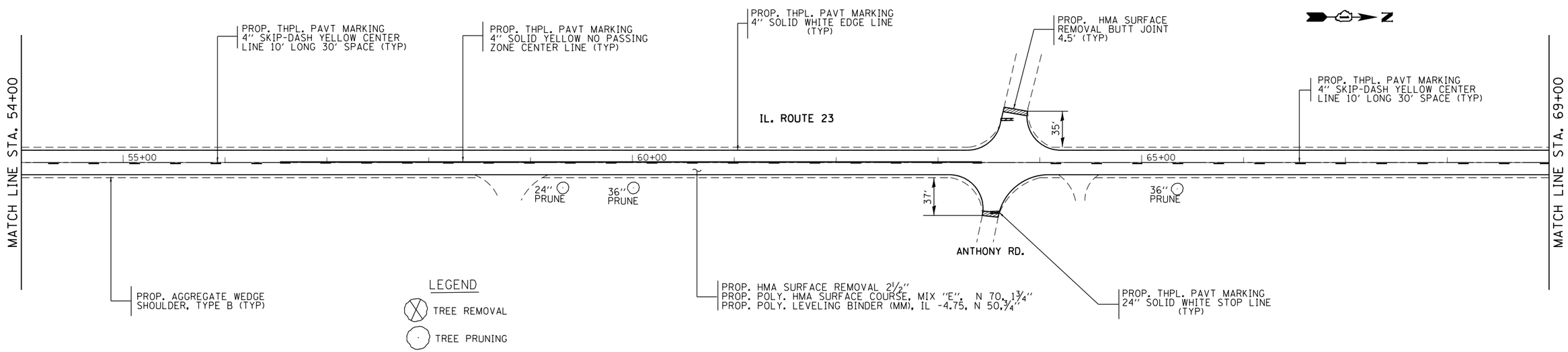
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' / SHEET OF SHEETS / STA. TO STA.	ILLINOIS FED. AID PROJECT				





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Default	PLOT DATE = 4/16/2018	DATE -	REVISED -		SCALE: 1''= 50' SHEET OF SHEETS STA. TO STA.			CONTRACT NO. 62C84		
								ILLINOIS FED. AID PROJECT		

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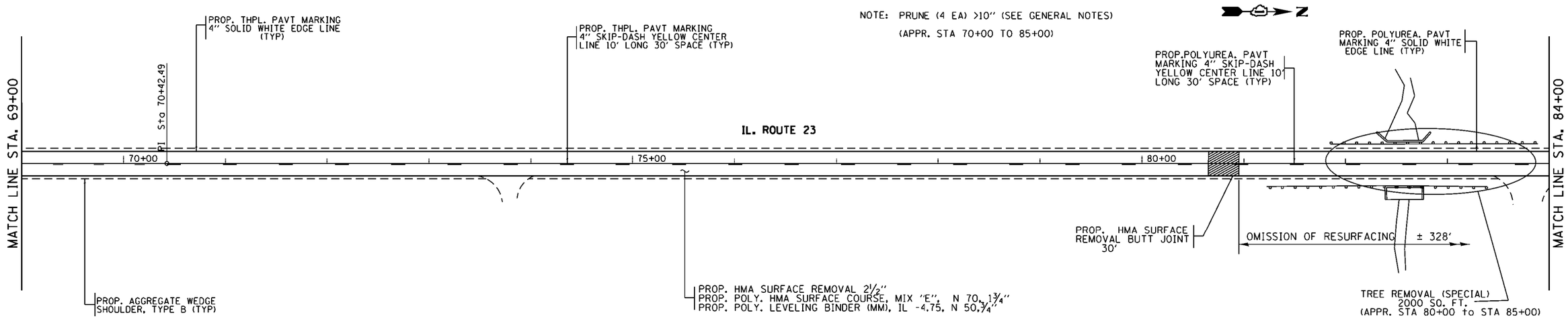

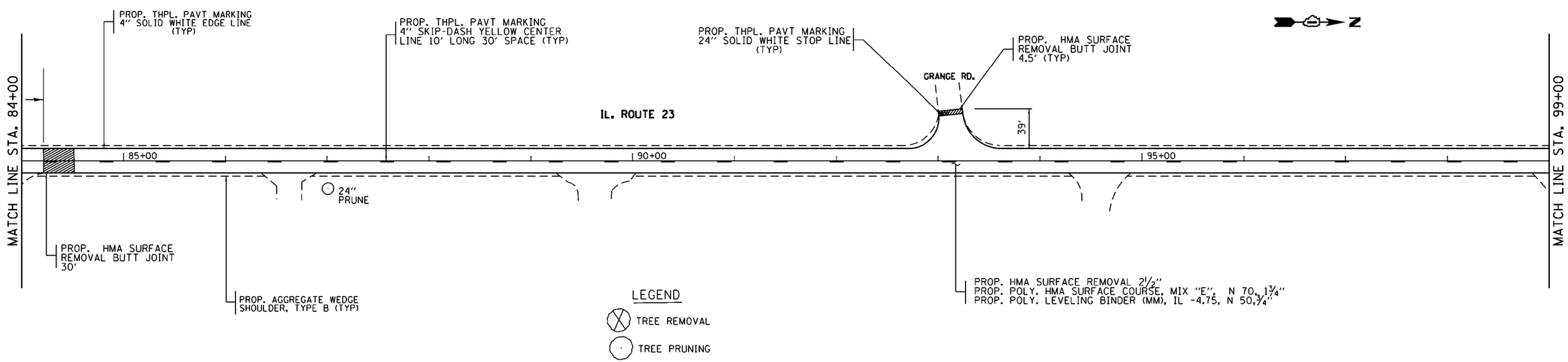

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 23 (I-90 TO US ROUTE 14)

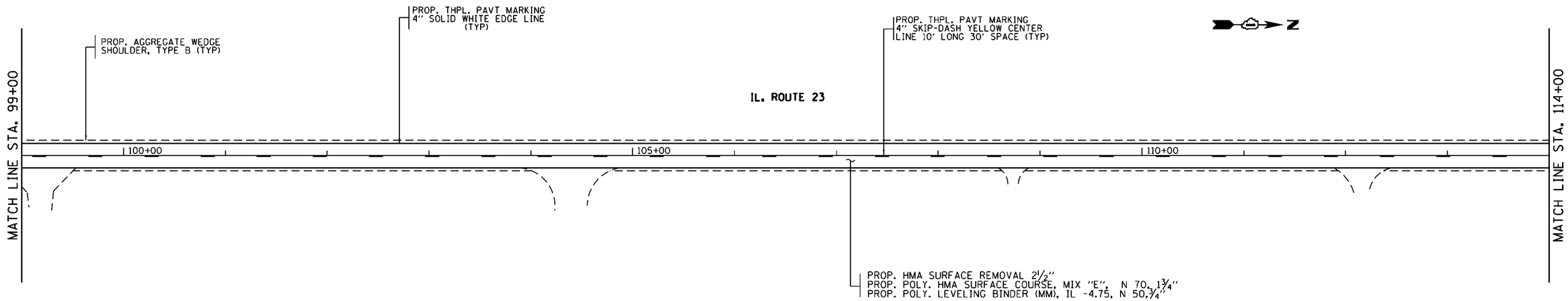
SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

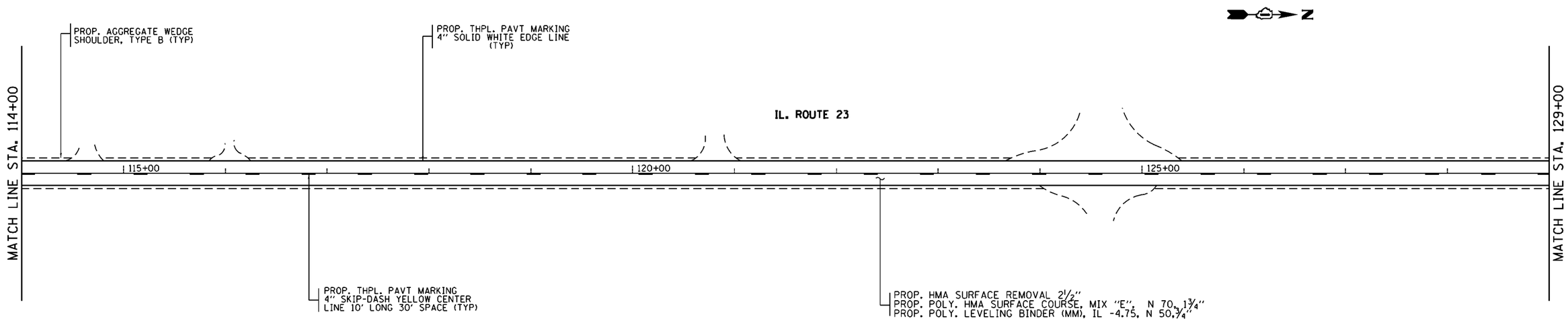
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	12

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT

NOTE: FOR THIS SECTION
APPR. STA 99+00 TO STA 129+00)
(12 TREES) 6-15 UNITS DIAMETER
REMOVAL (SEE GENERAL NOTES)





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		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	13
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
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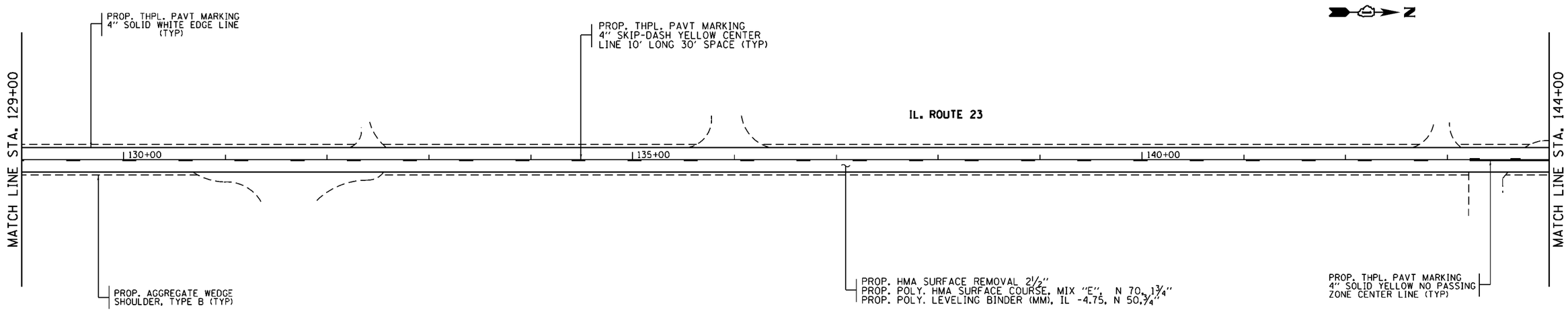

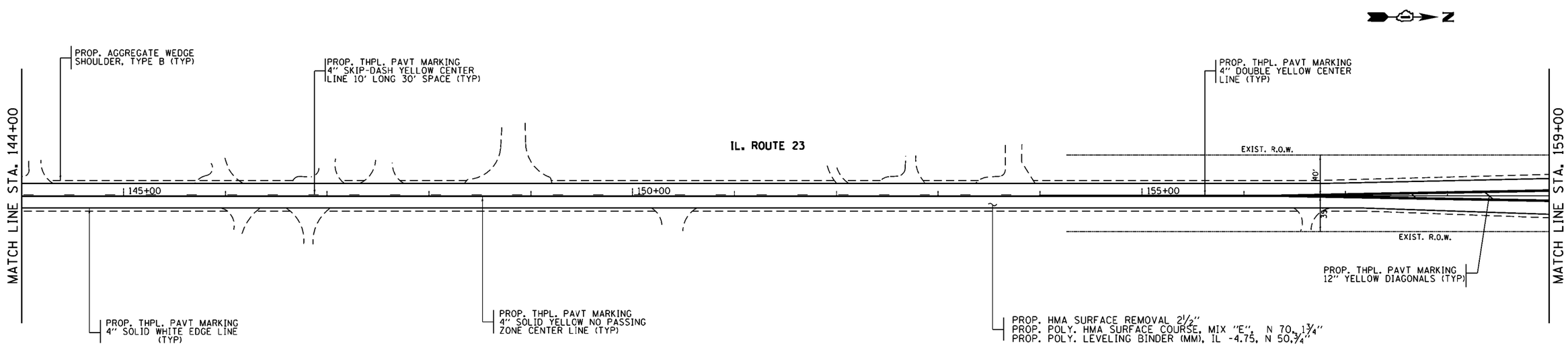

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		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	14
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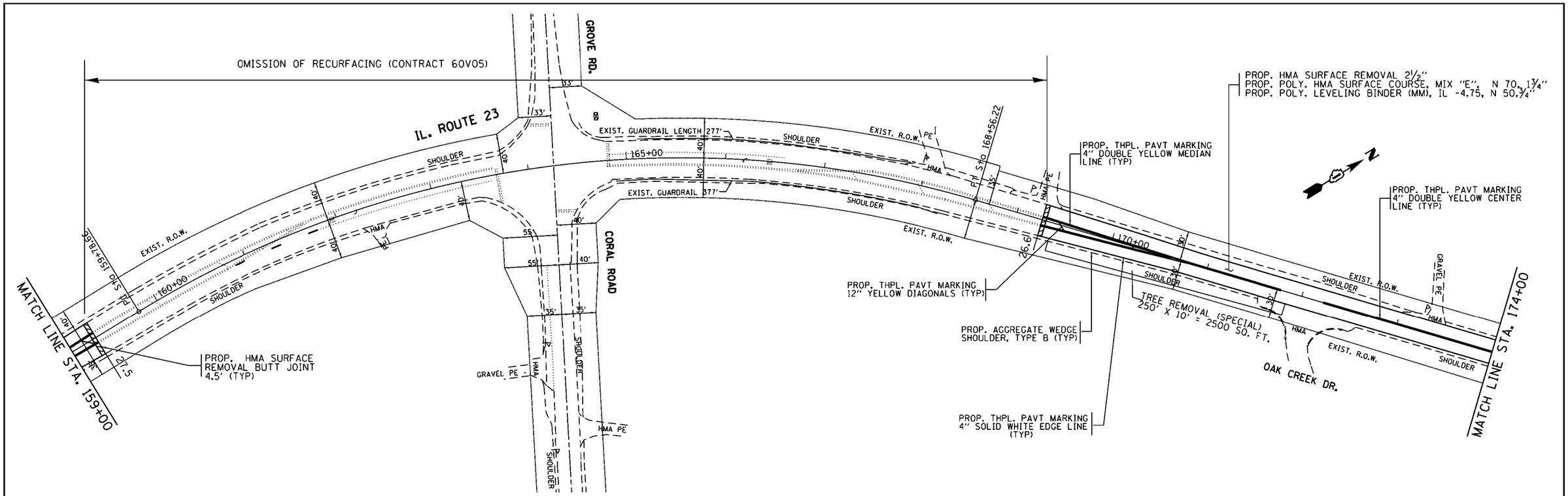

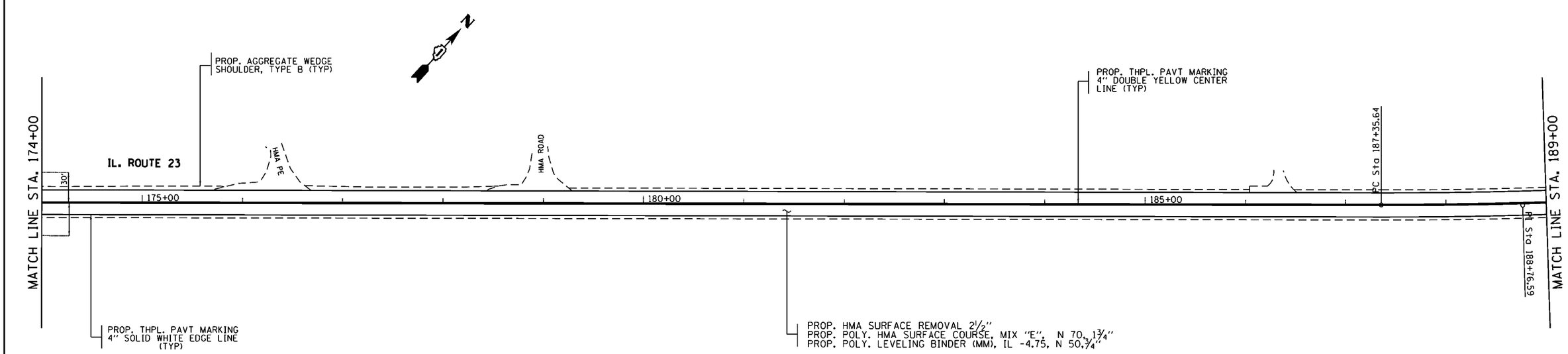

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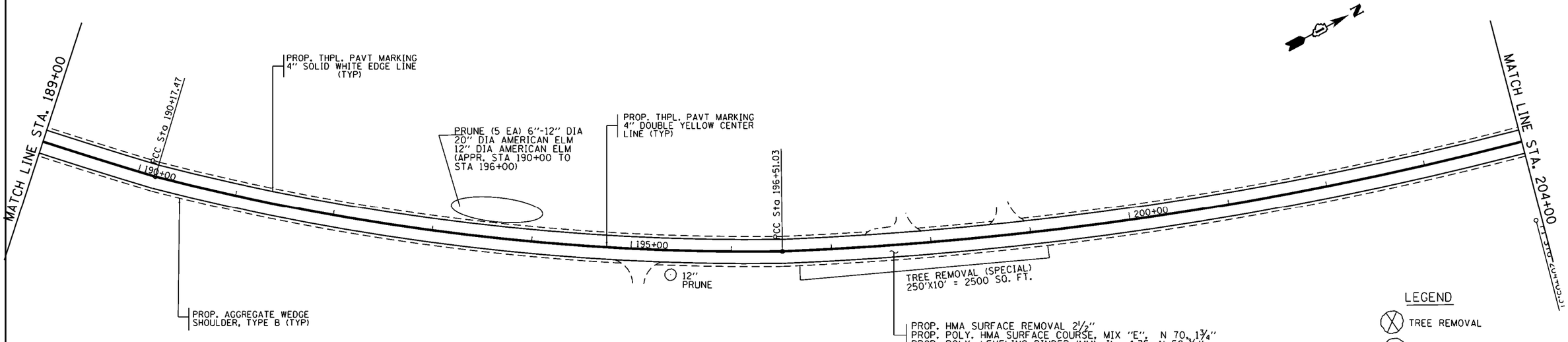

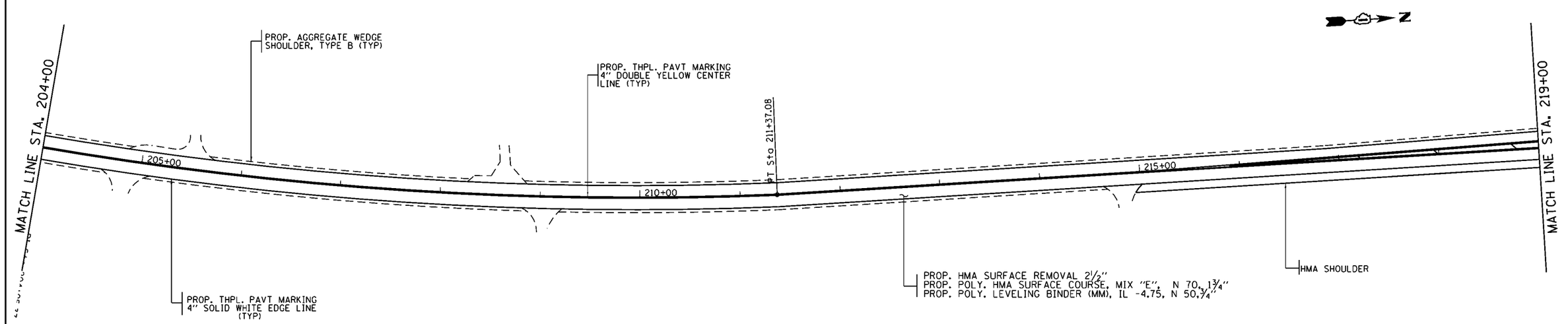

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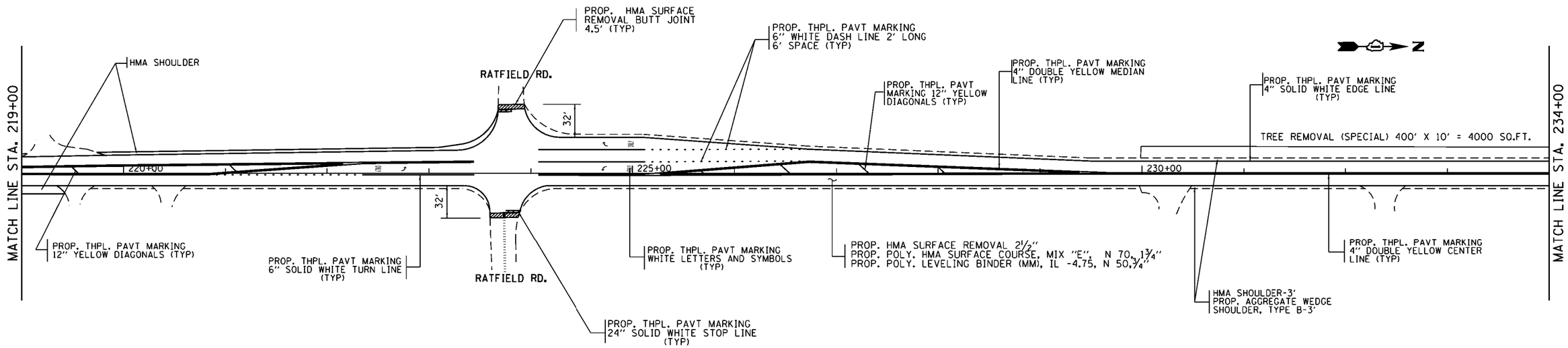
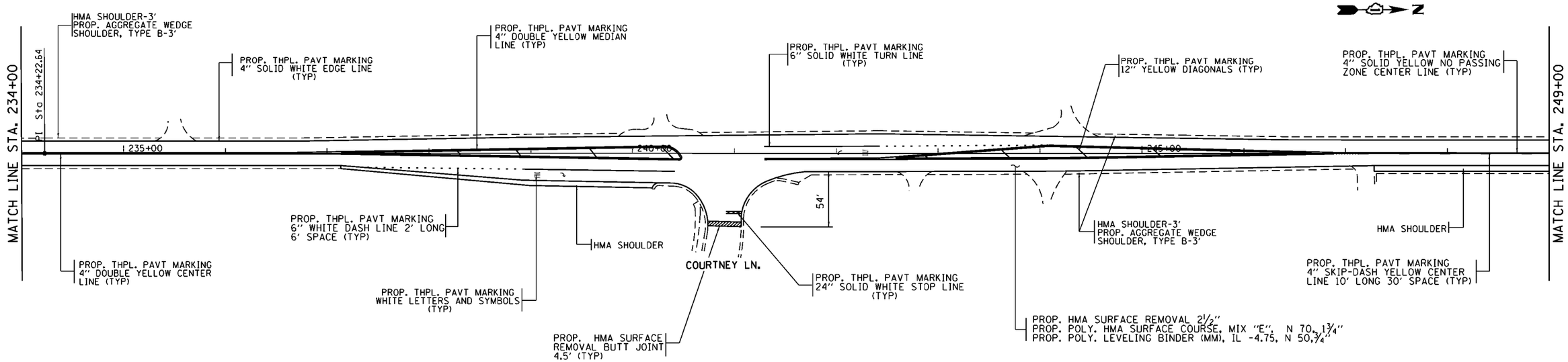
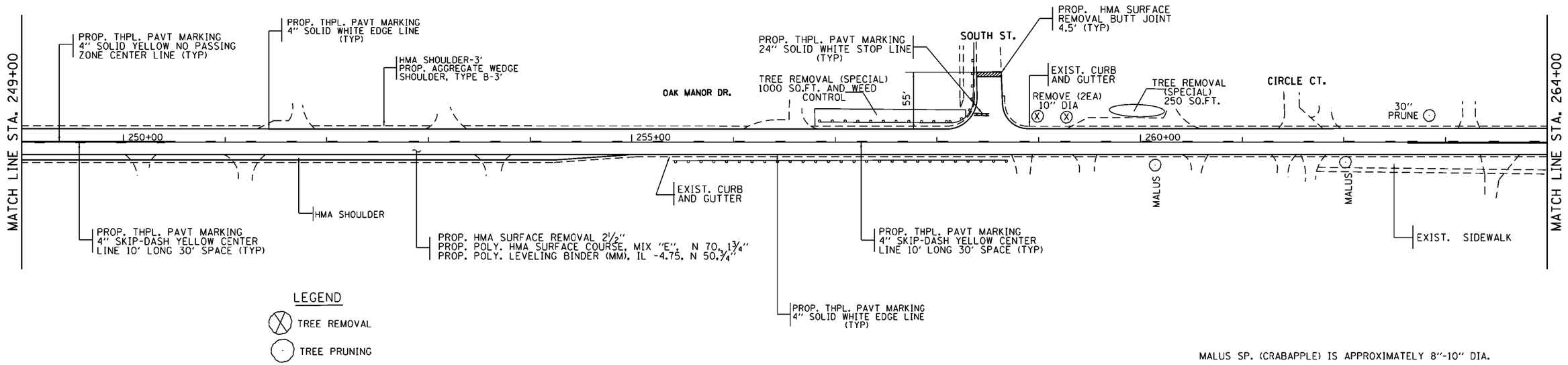


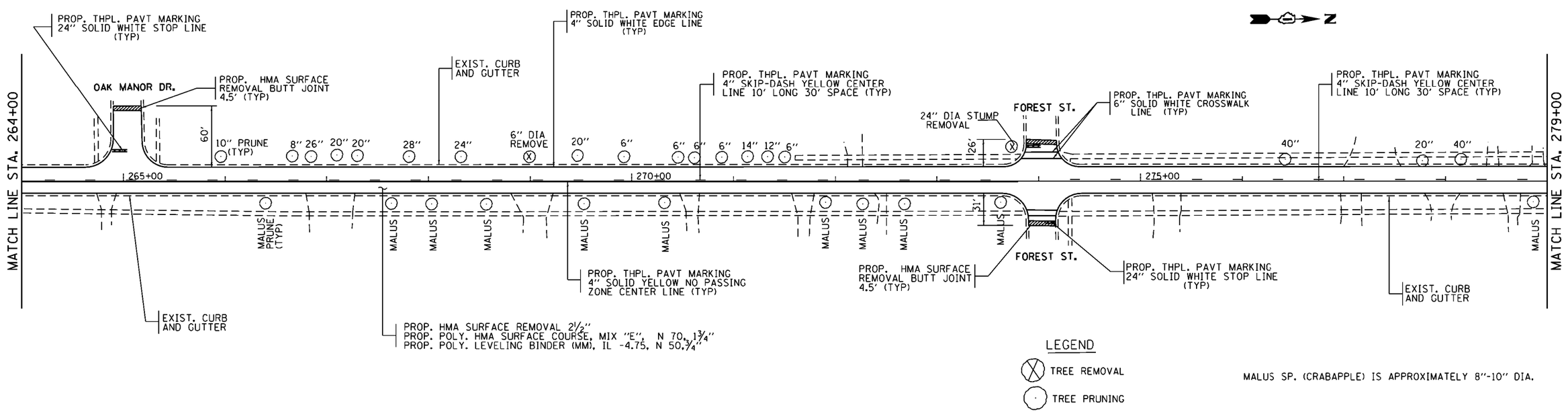


FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	17
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

NOTE: PRUNE ALL TREES IN THIS AREA
UNLESS OTHERWISE NOTED.
(APPR. STA 249+00 TO STA 279+00)
14 EA > 10" DIA
19 EA < 10" DIA

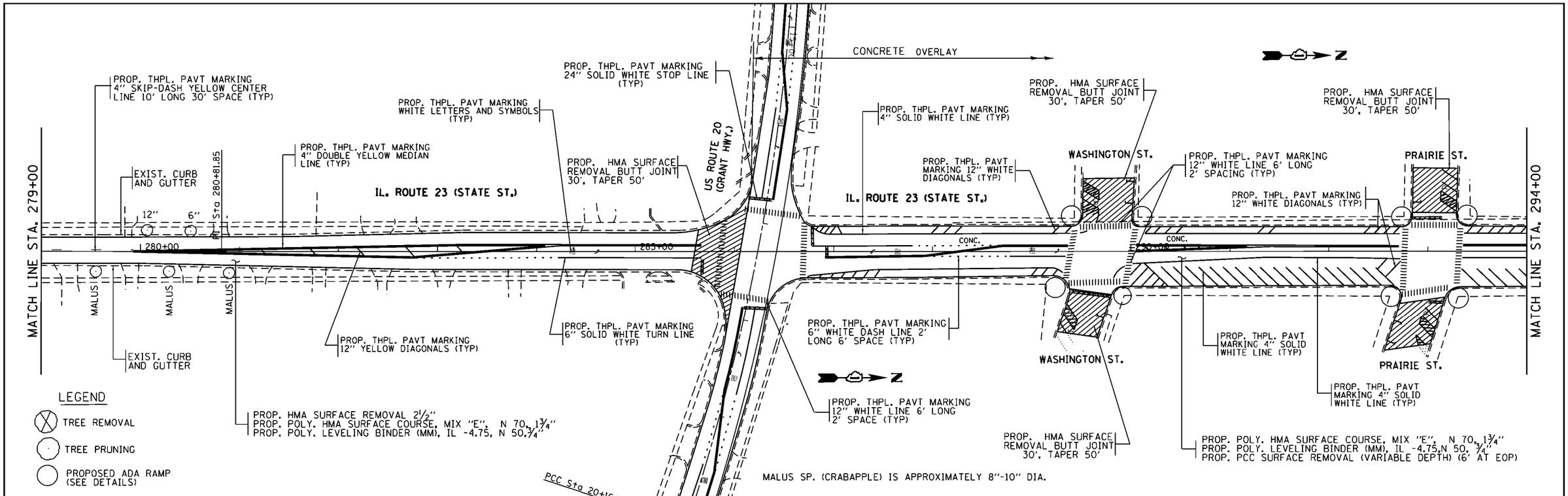


MALUS SP. (CRABAPPLE) IS APPROXIMATELY 8"-10" DIA.



MALUS SP. (CRABAPPLE) IS APPROXIMATELY 8"-10" DIA.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	18
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -
			REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 9/14/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 23 (I-90 TO US ROUTE 14)

SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	19

CONTRACT NO. 62C84

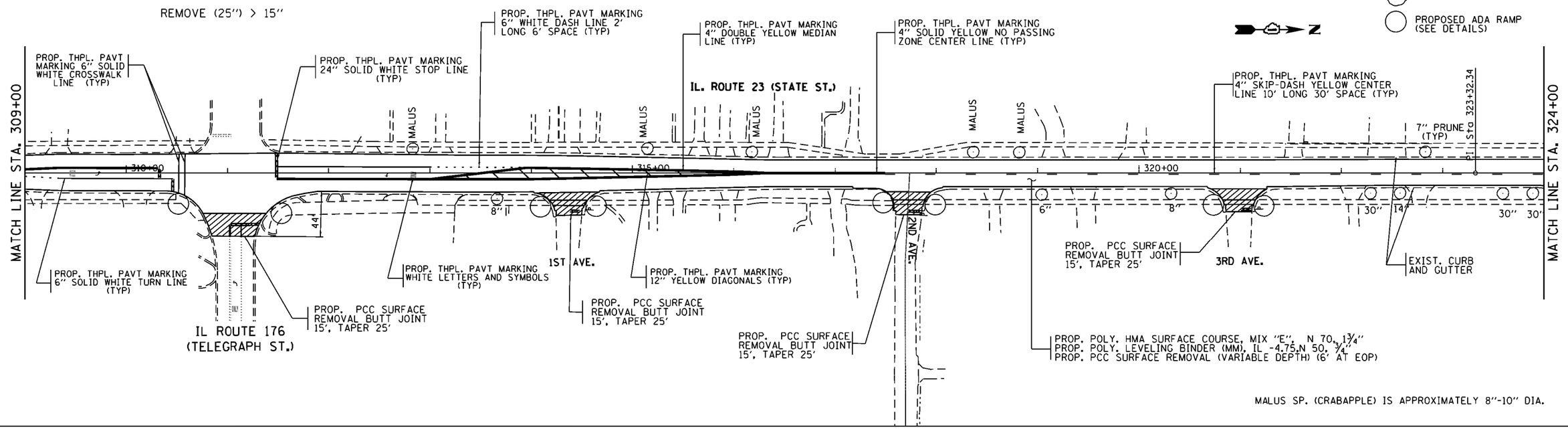
ILLINOIS FED. AID PROJECT

NOTE: PRUNE ALL TREES IN THIS AREA
UNLESS OTHERWISE NOTED.
(APPR. STA 309+00 TO STA 339+00)
5 EA > 10" DIA
20 EA < 10" DIA

REMOVE (25") > 15"

LEGEND

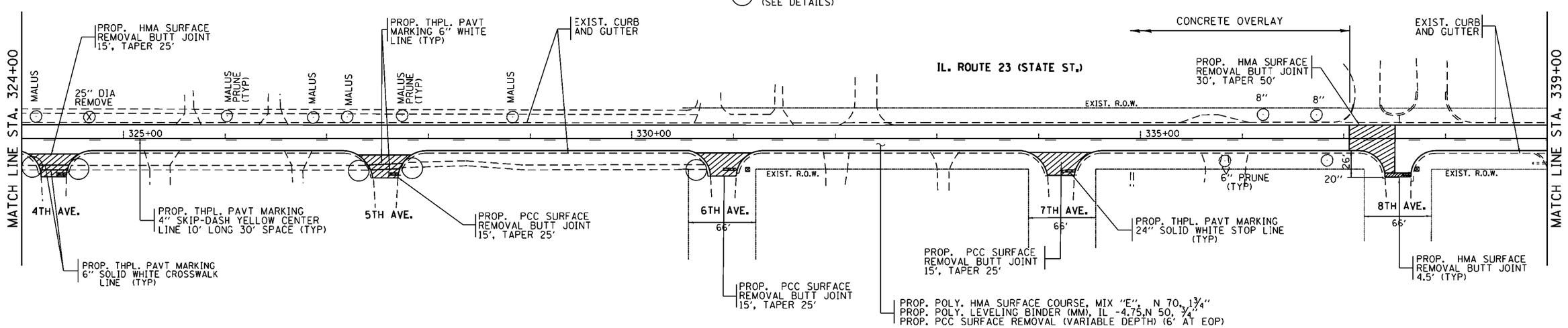
- TREE REMOVAL
- TREE PRUNING
- PROPOSED ADA RAMP (SEE DETAILS)



MALUS SP. (CRABAPPLE) IS APPROXIMATELY 8"-10" DIA.

LEGEND

- TREE REMOVAL
- TREE PRUNING
- PROPOSED ADA RAMP (SEE DETAILS)



MALUS SP. (CRABAPPLE) IS APPROXIMATELY 8"-10" DIA.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -
			REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 9/14/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

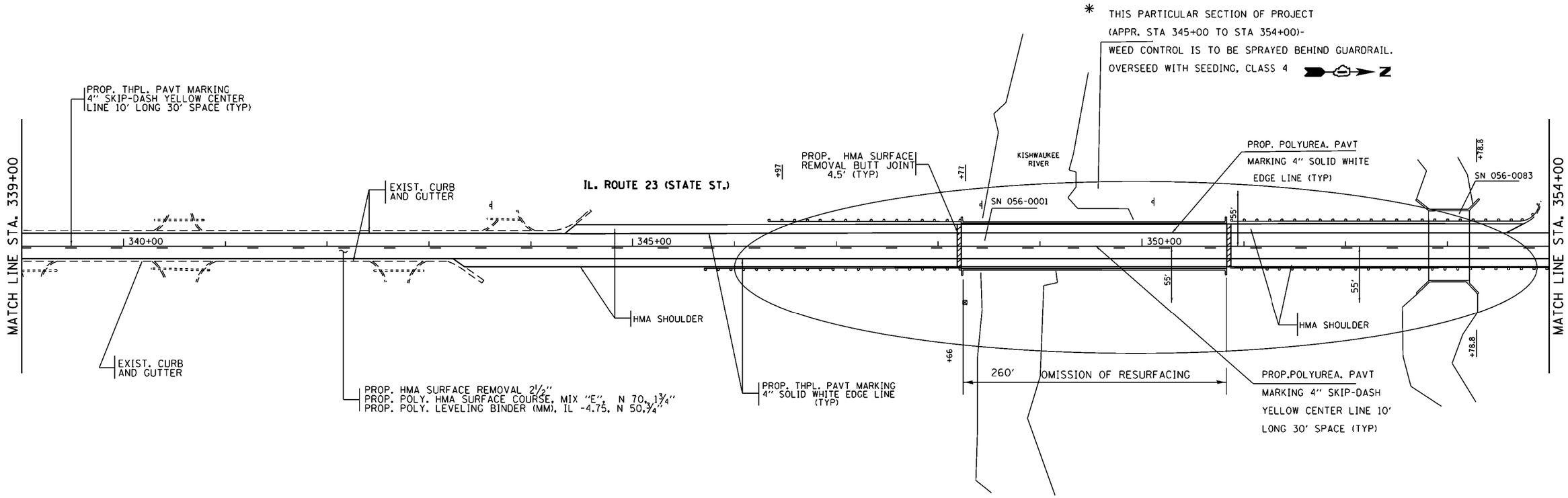
ROADWAY PLAN
IL. ROUTE 23 (I-90 TO US ROUTE 14)

SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	20

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



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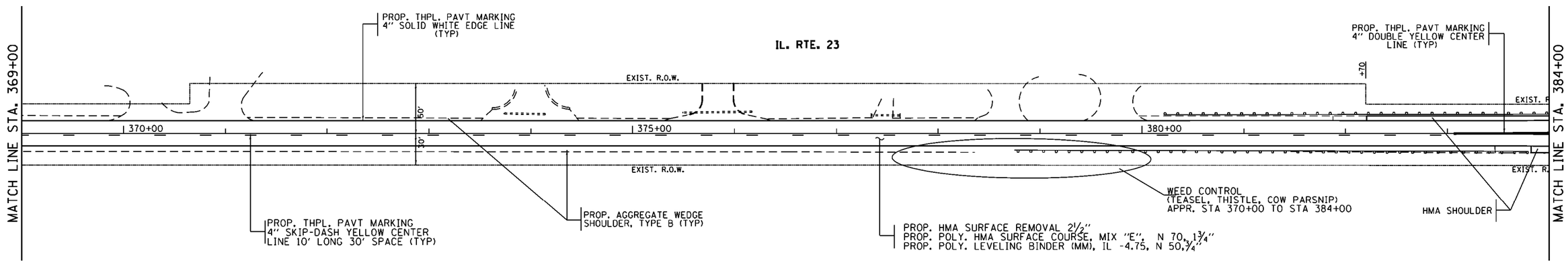
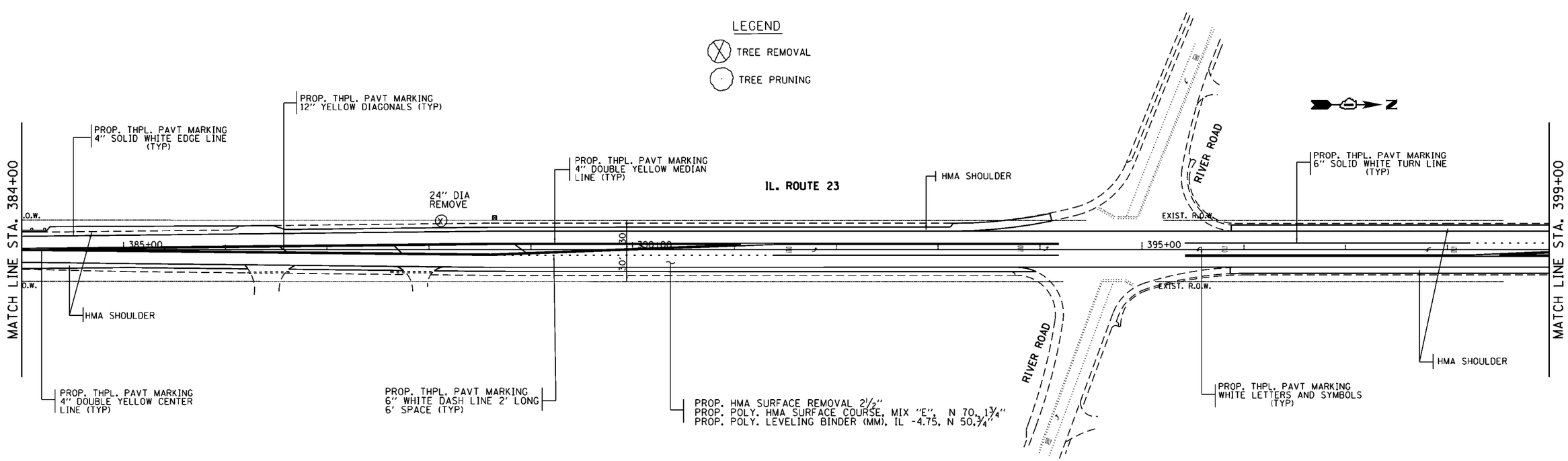
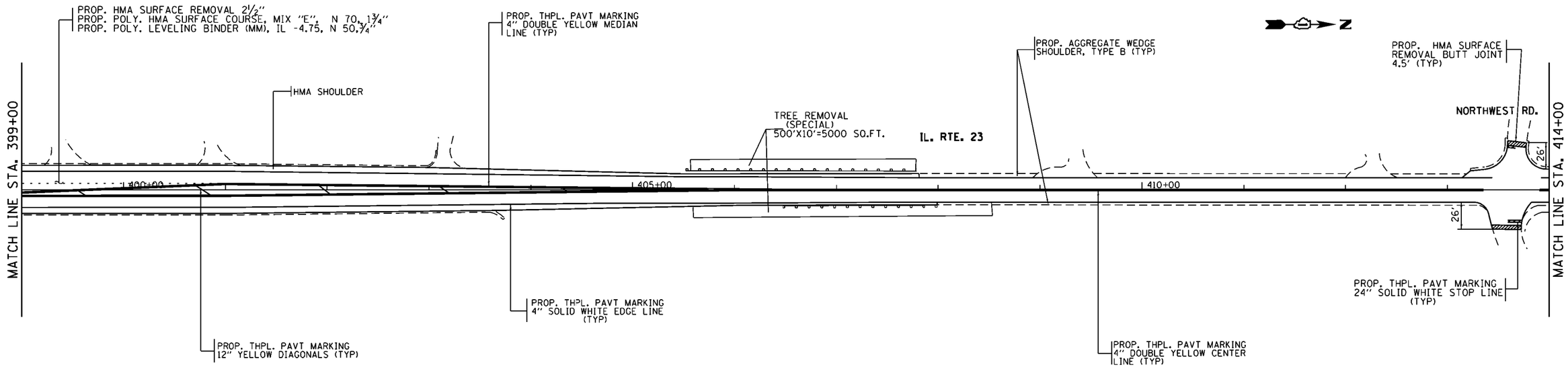
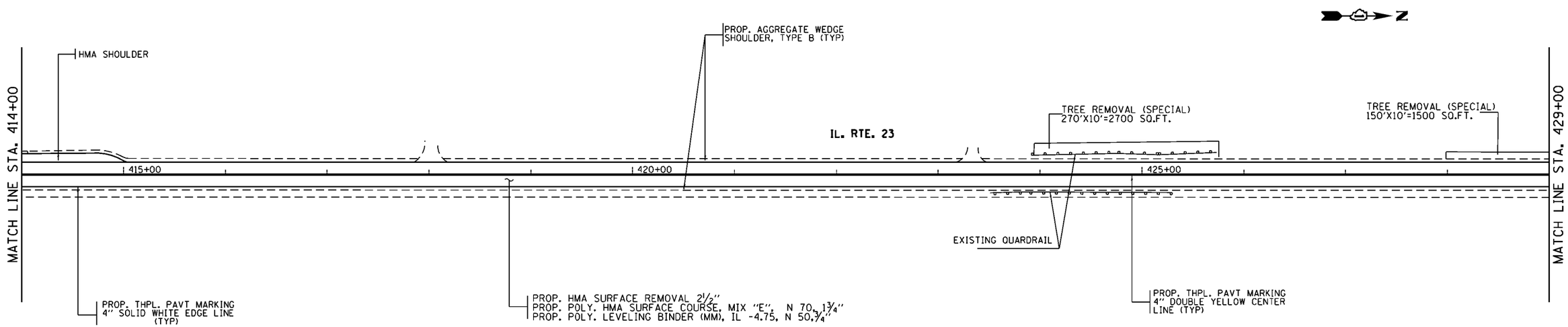
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	21
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' / SHEET OF SHEETS / STA. TO STA.		ILLINOIS FED. AID PROJECT			



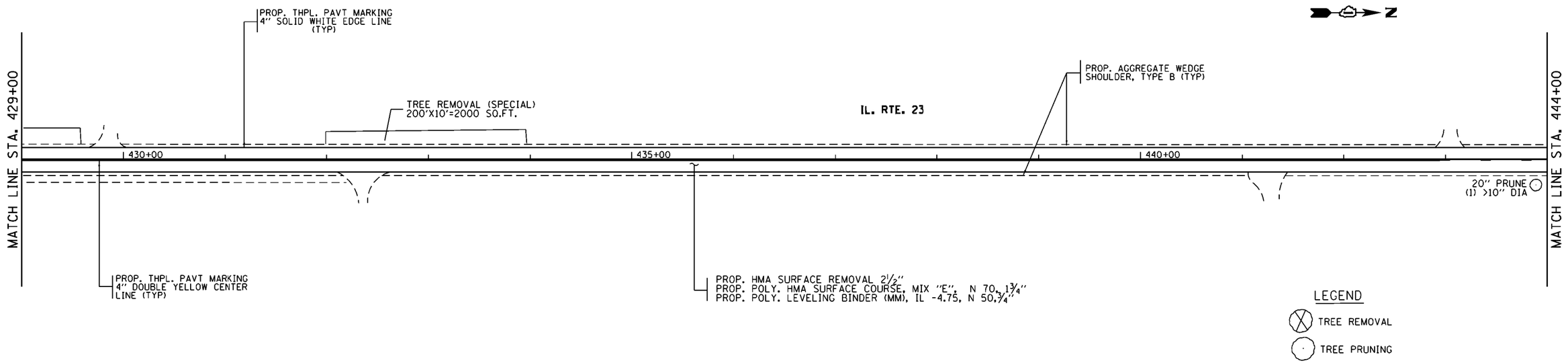


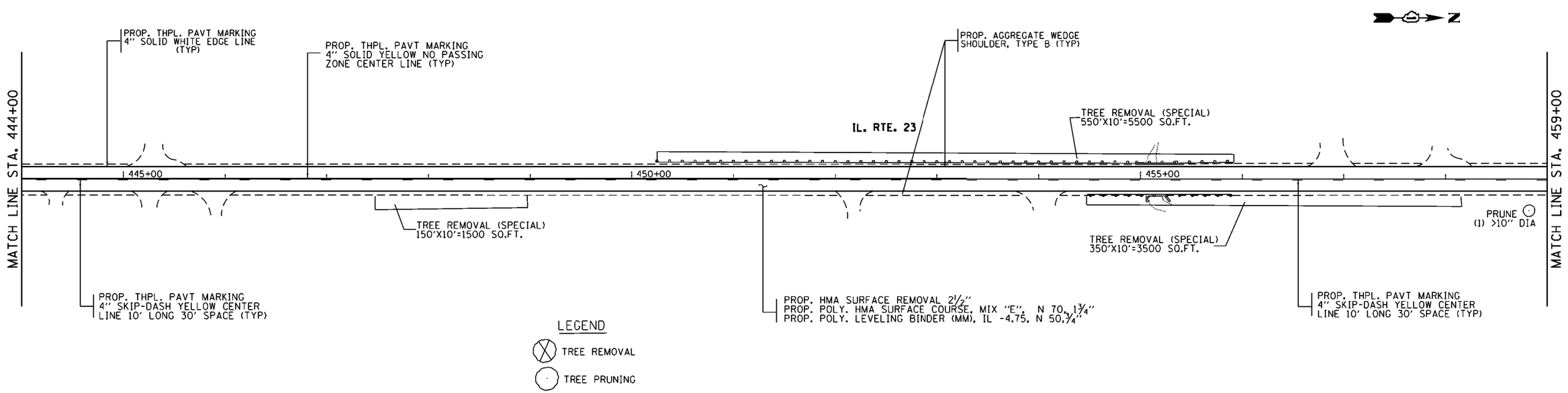
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	22
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.	CONTRACT NO. 62C84				
						ILLINOIS FED. AID PROJECT				



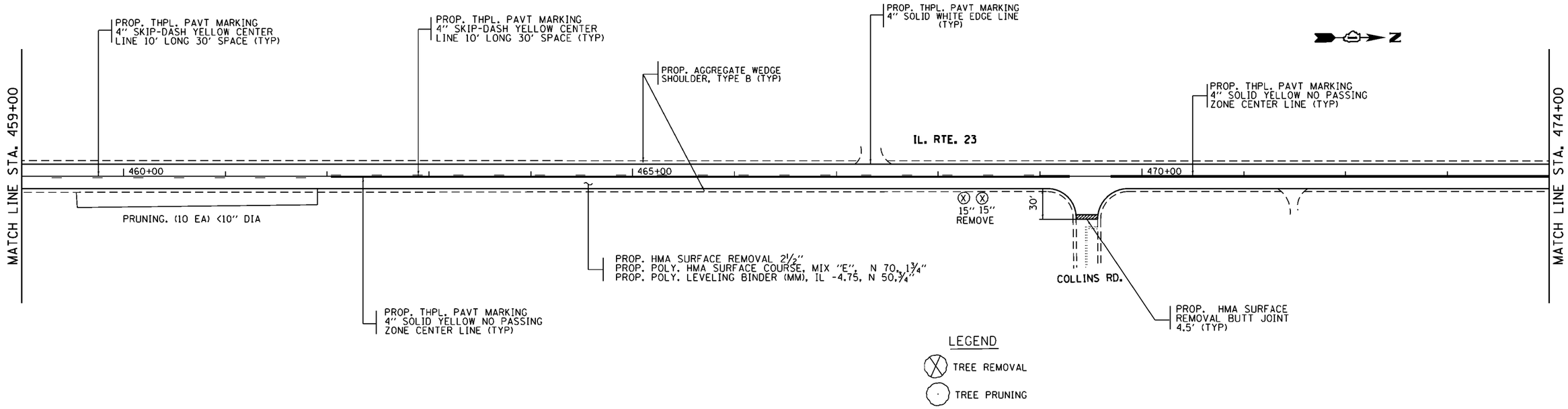


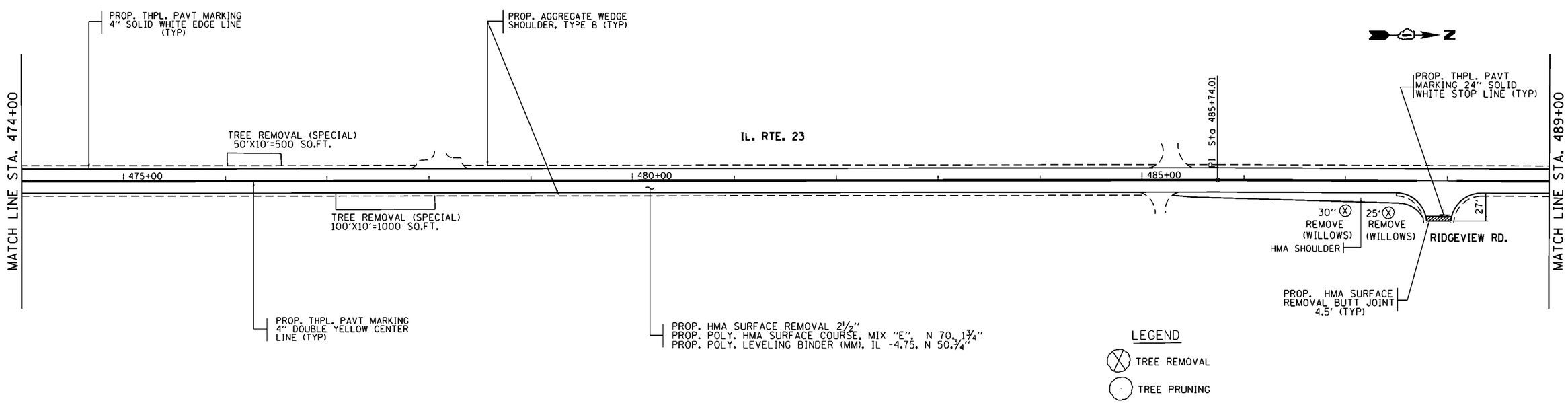
FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	23
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			





FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	24
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			





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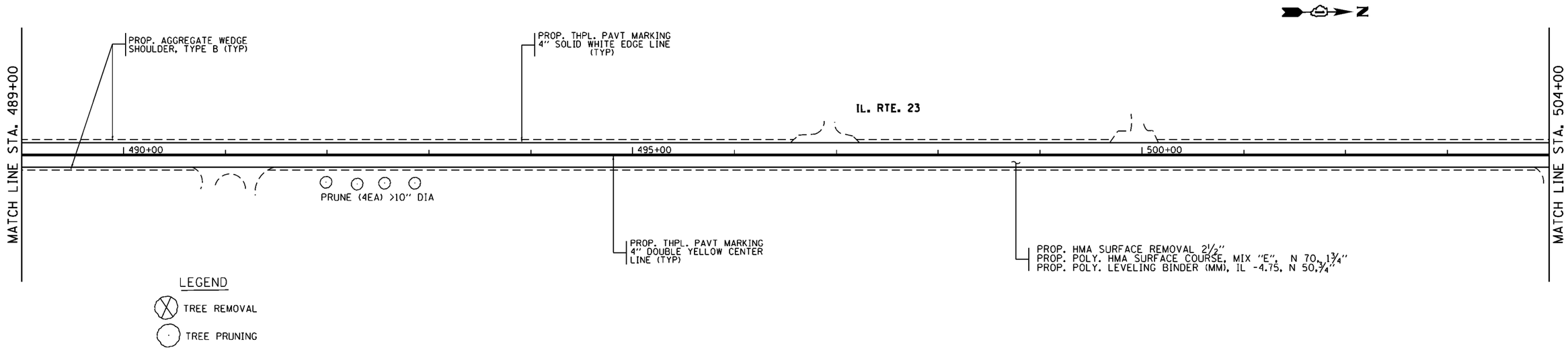
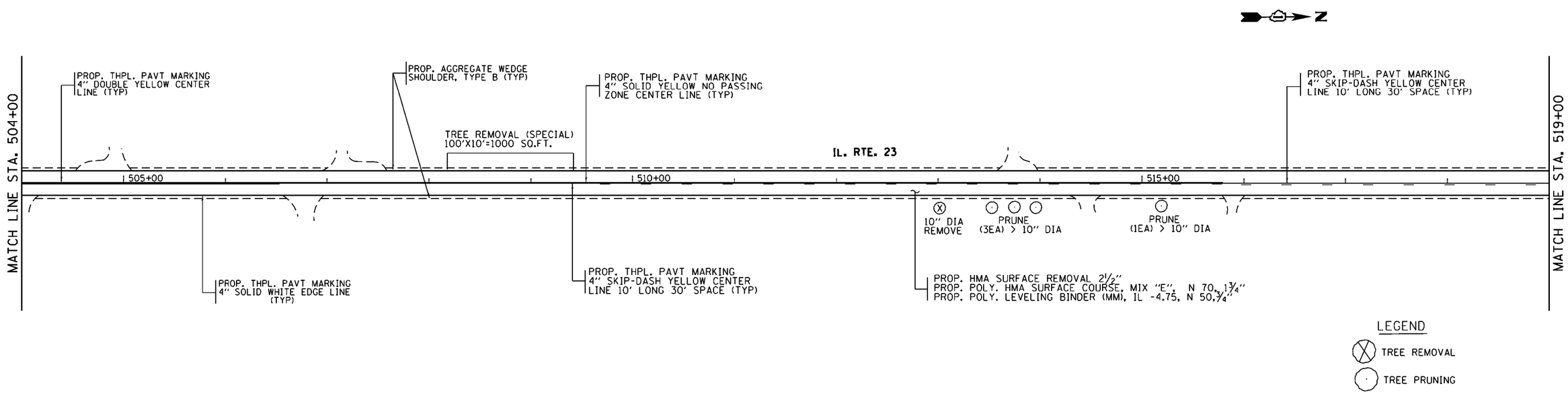
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	25
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			





FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	26
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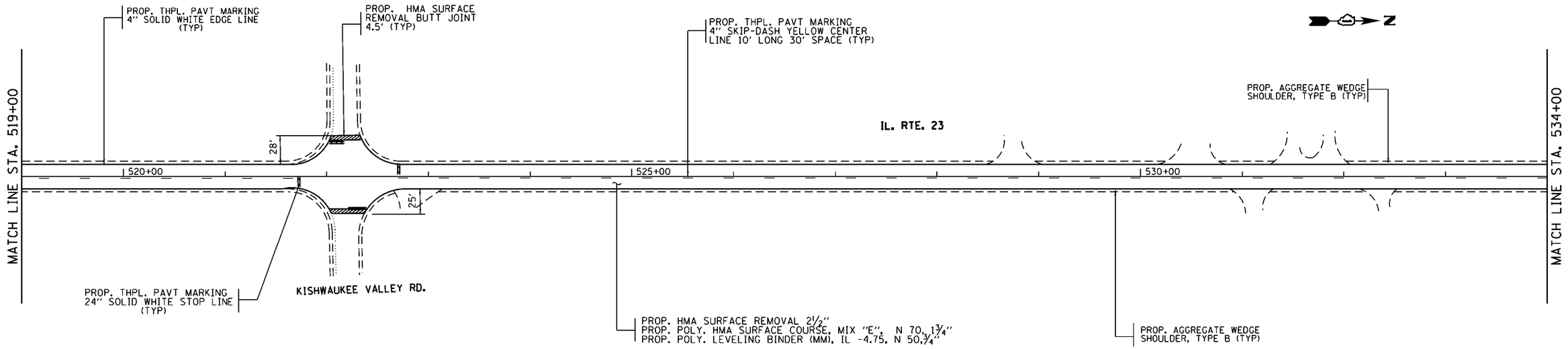

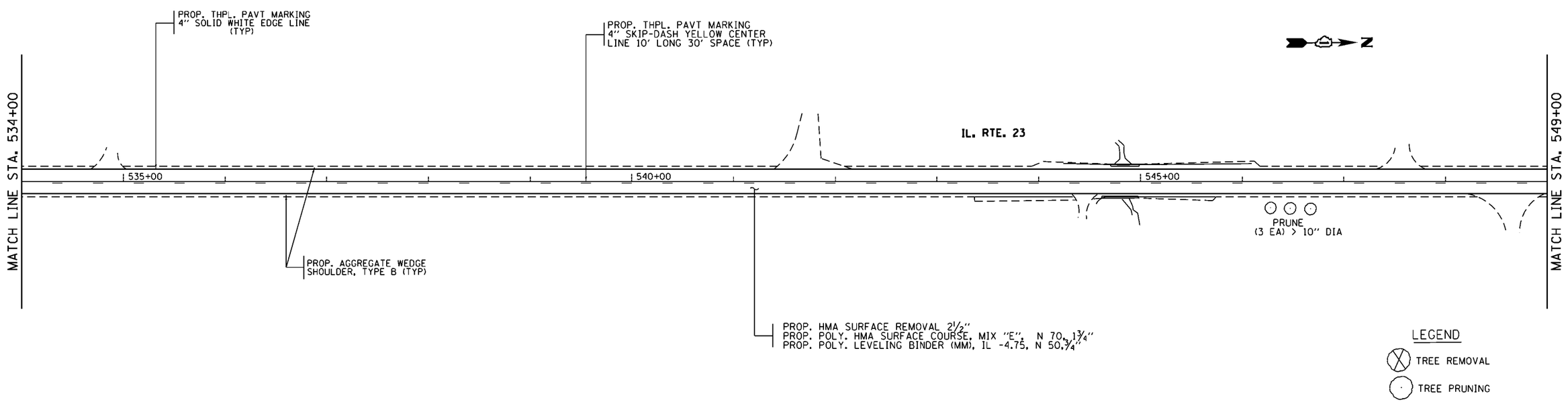

LEGEND

TREE REMOVAL

TREE PRUNING

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE. 324	SECTION (23 & 24)RS-2	COUNTY MCHENRY	TOTAL SHEETS 74 / SHEET NO. 27
		DRAWN -	REVISED -					CONTRACT NO. 62C84	
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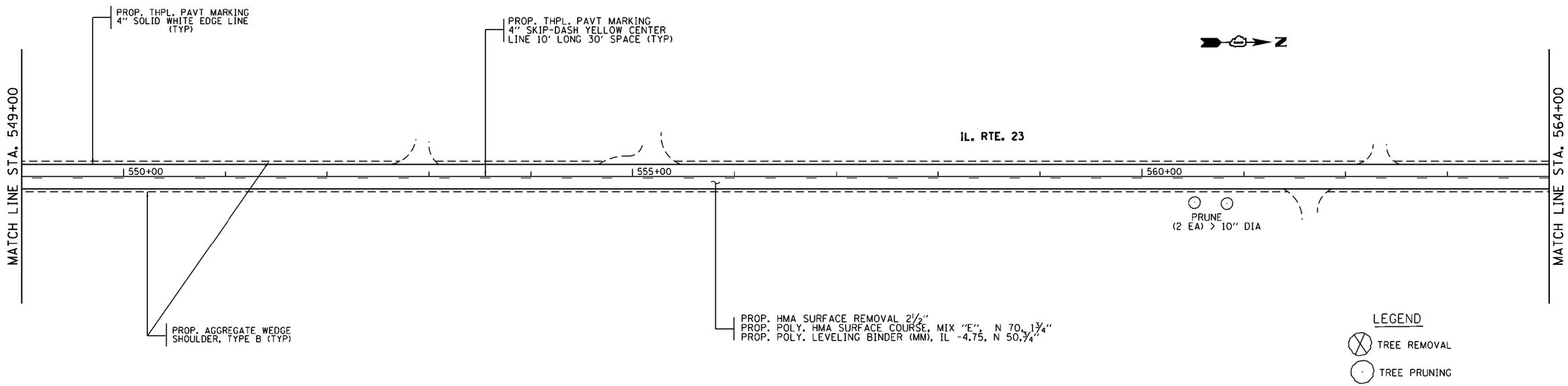
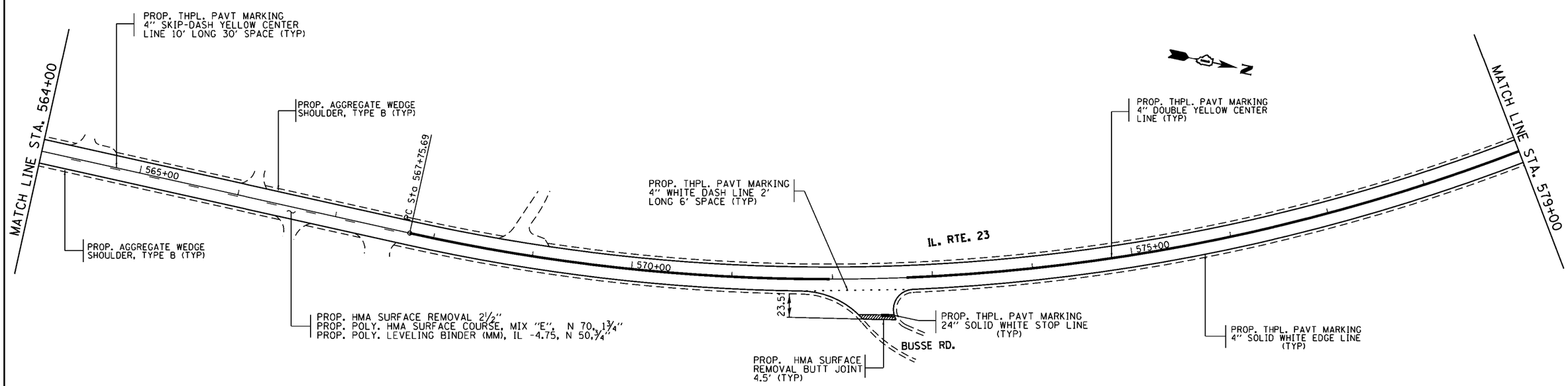
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' / SHEET OF SHEETS / STA. TO STA.		ILLINOIS FED. AID PROJECT		





FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		CHECKED -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	28
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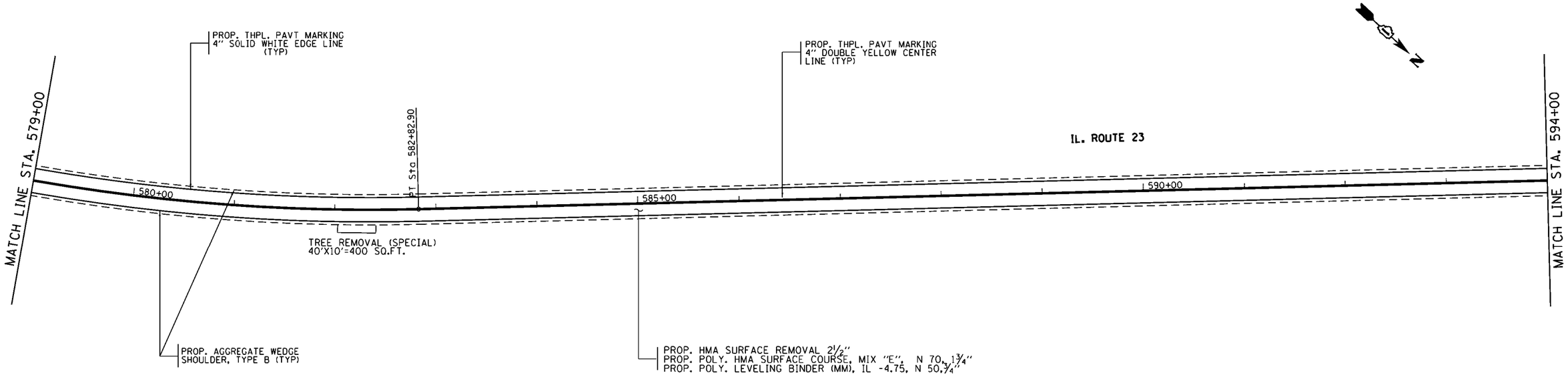

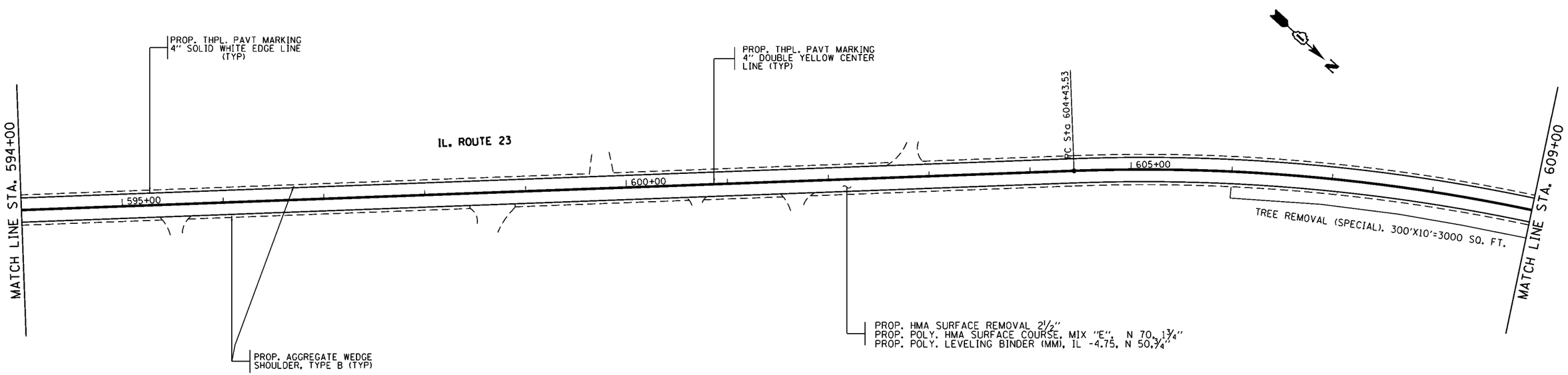

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pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Sheets\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	29
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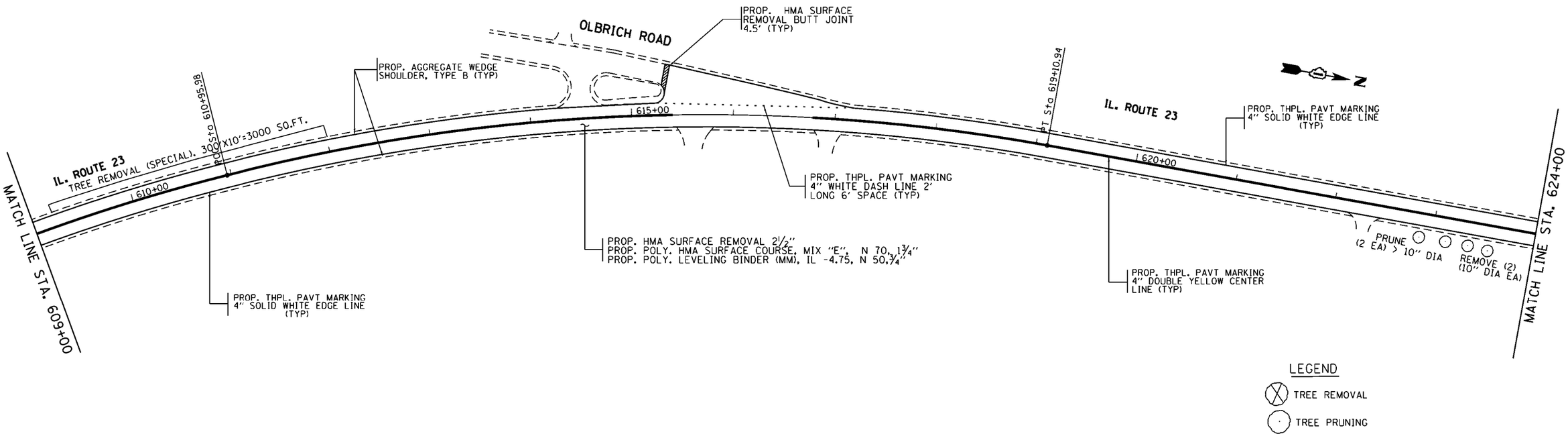
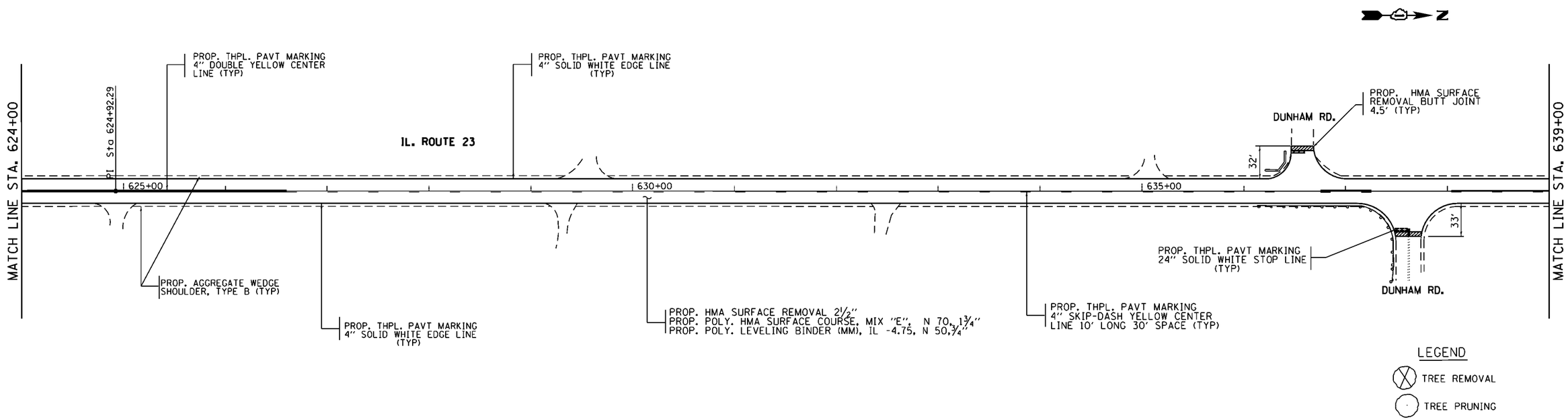
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.	ILLINOIS FED. AID PROJECT				





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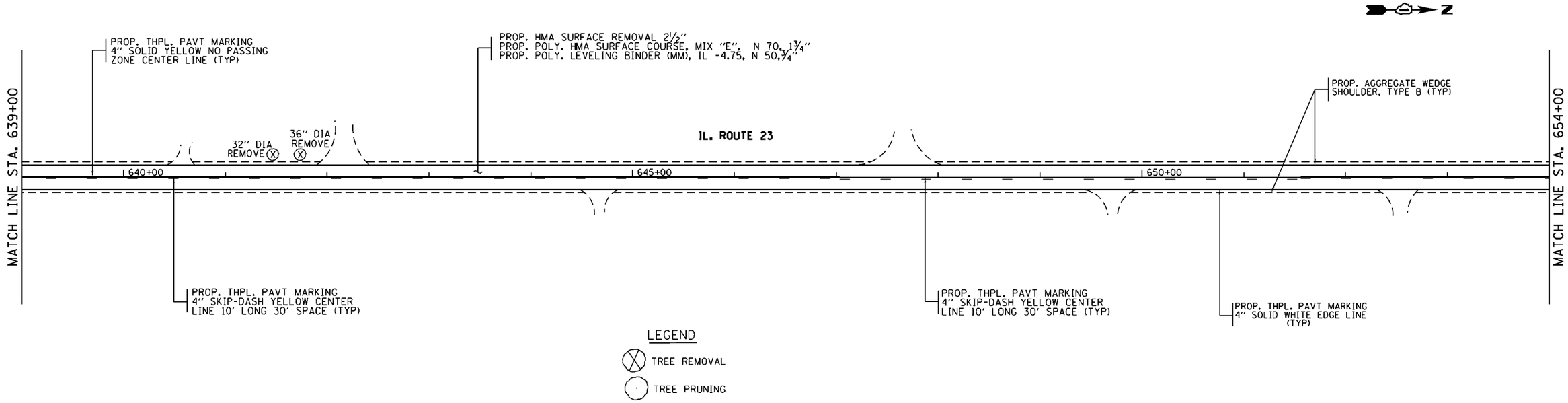
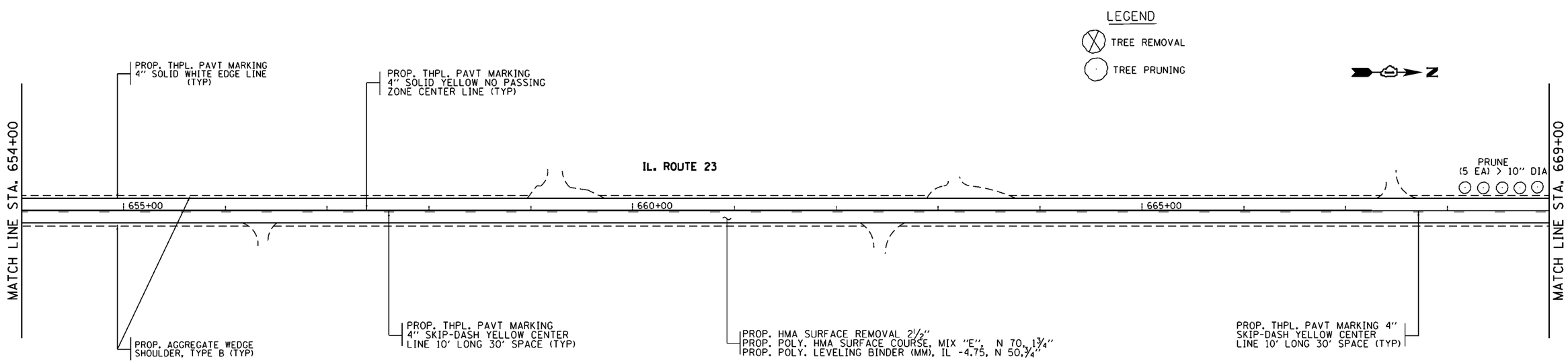
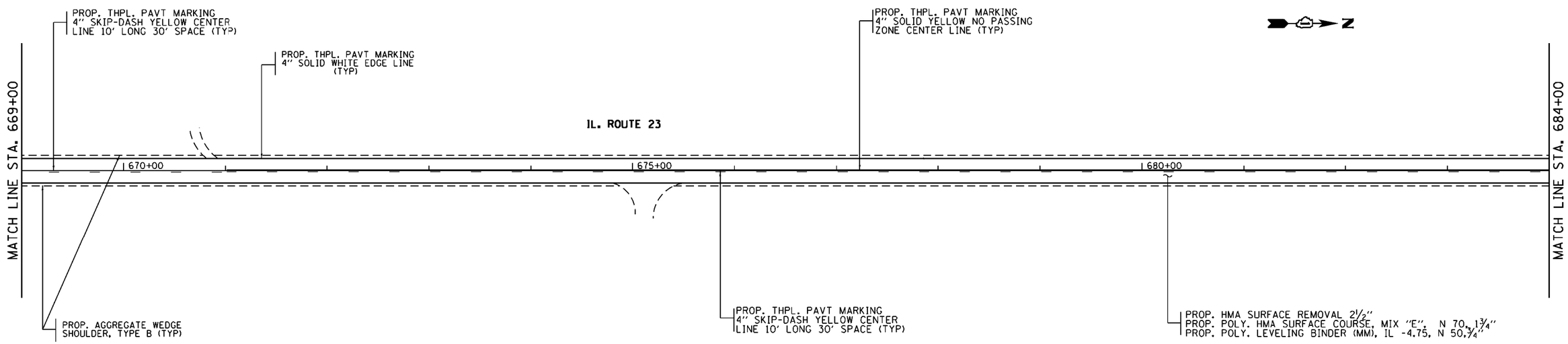
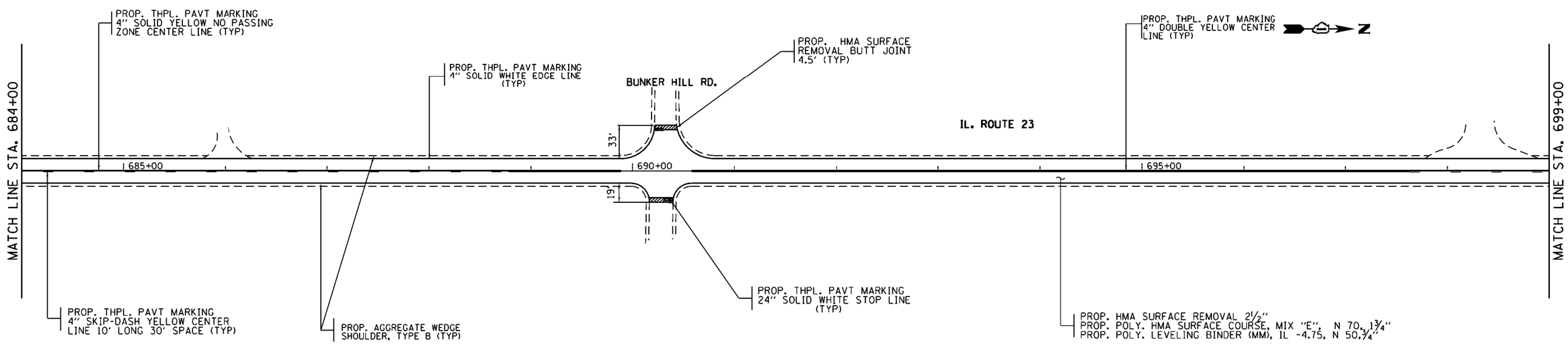
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	30
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' / SHEET OF SHEETS / STA. TO STA.		ILLINOIS FED. AID PROJECT			



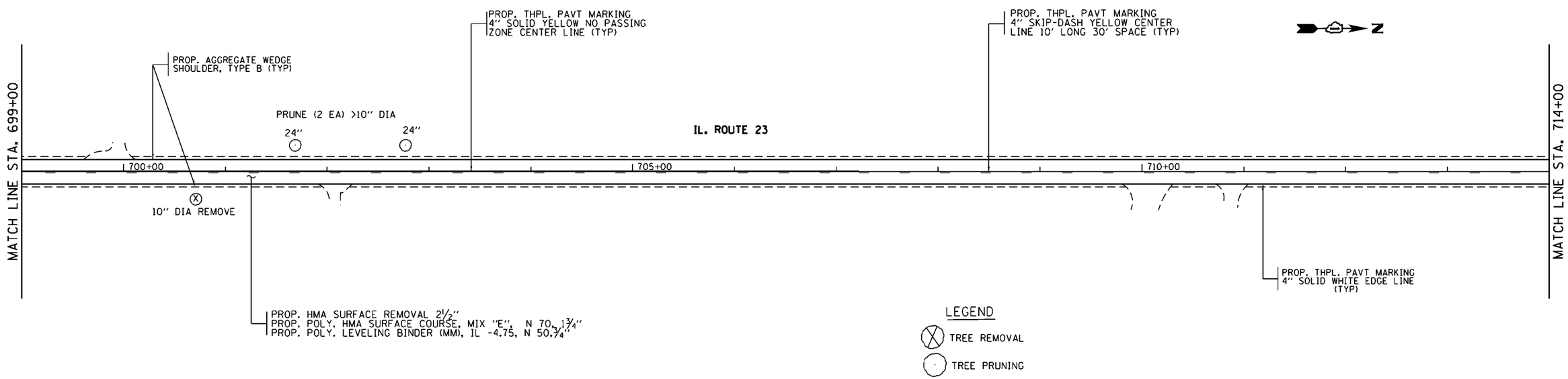


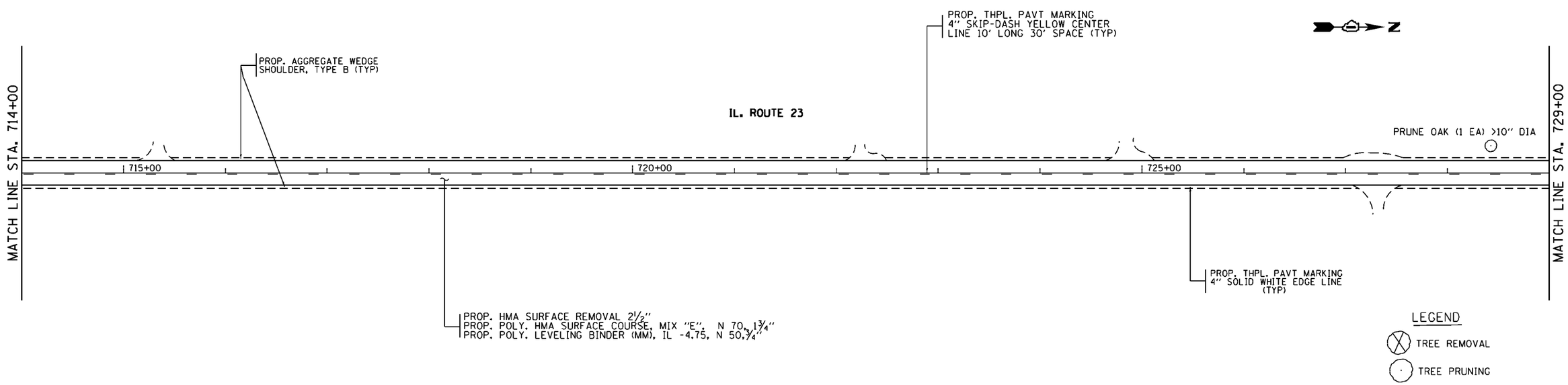
FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	31
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT		





FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -					324	(23 & 24)RS-2	MCHENRY	74 / 32
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -							CONTRACT NO. 62C84	
Default	PLOT DATE = 8/15/2017	DATE -	REVISED -		SCALE: 1"= 50'	SHEET OF SHEETS	STA. TO STA.		ILLINOIS FED. AID PROJECT		





FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -				324	(23 & 24)RS-2	MCHENRY	74 / 33
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -						CONTRACT NO. 62C84	
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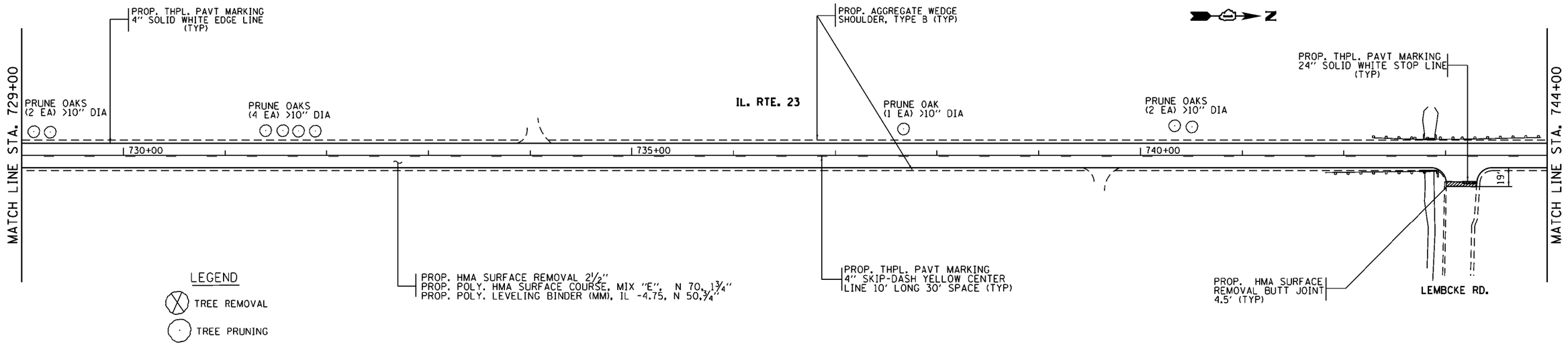
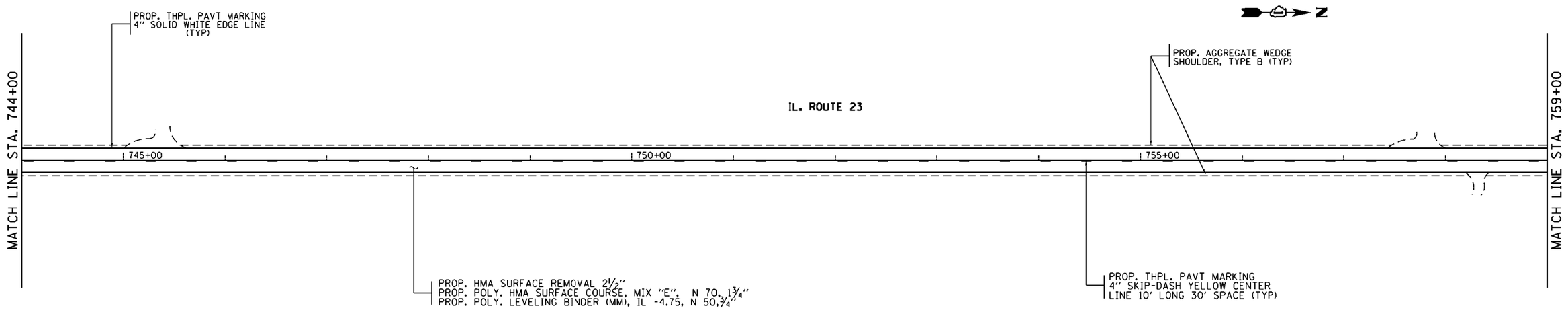
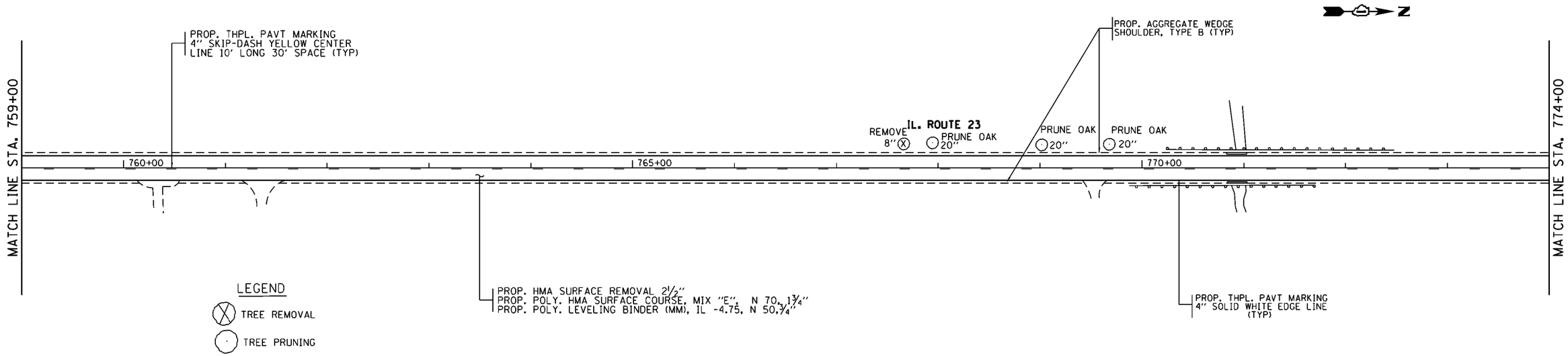
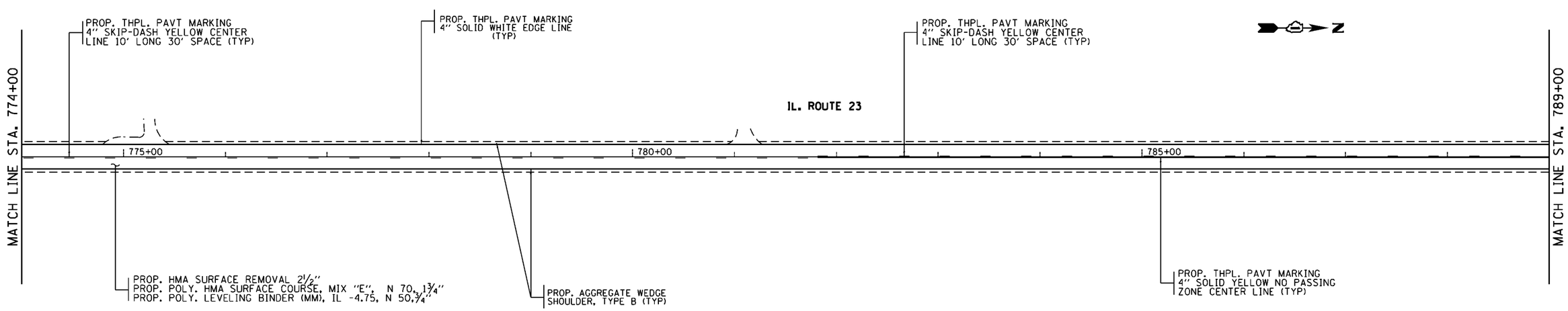




FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Sheets\Design\D139116-sht-plan.dgn		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	34
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' | SHEET OF SHEETS | STA. TO STA.		ILLINOIS FED. AID PROJECT			





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		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	35
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
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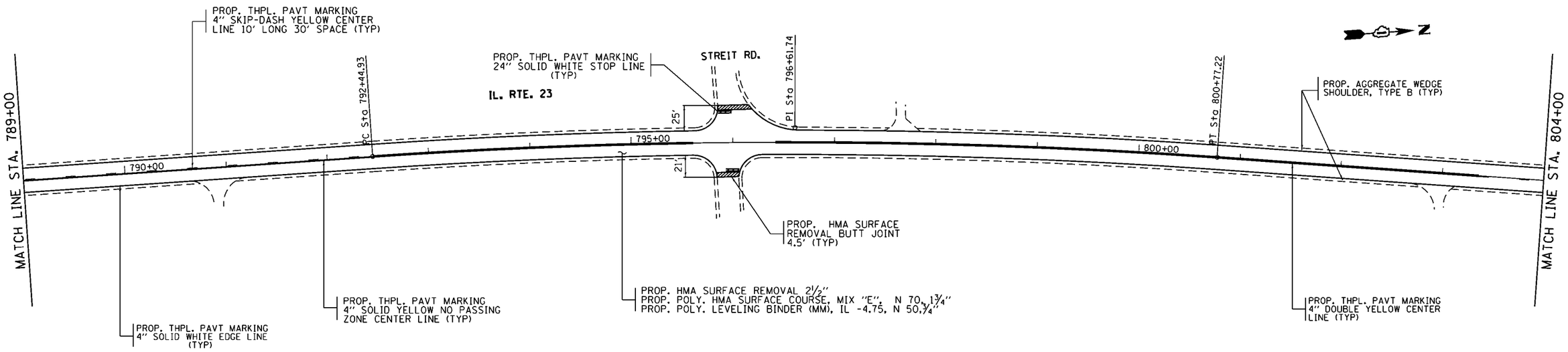

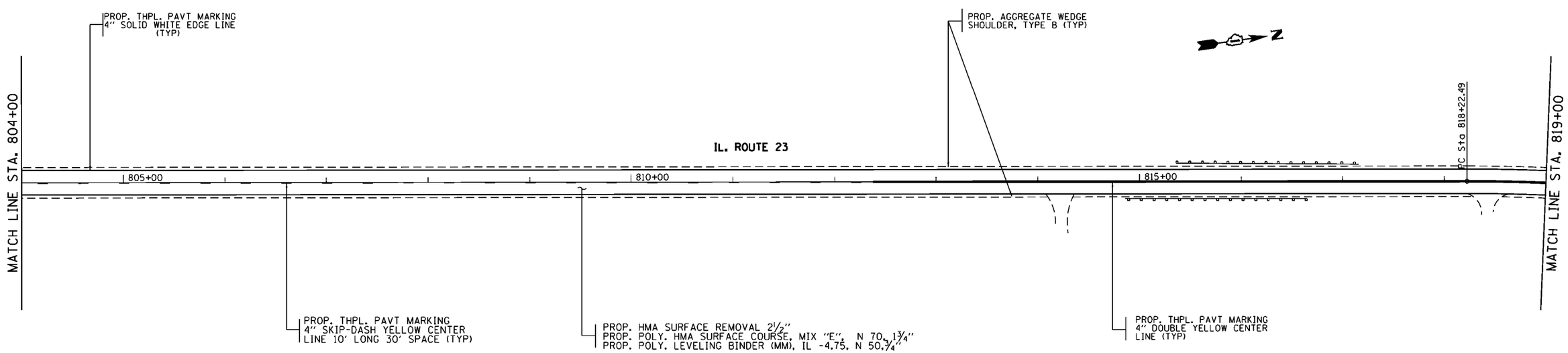

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn		CHECKED -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	36
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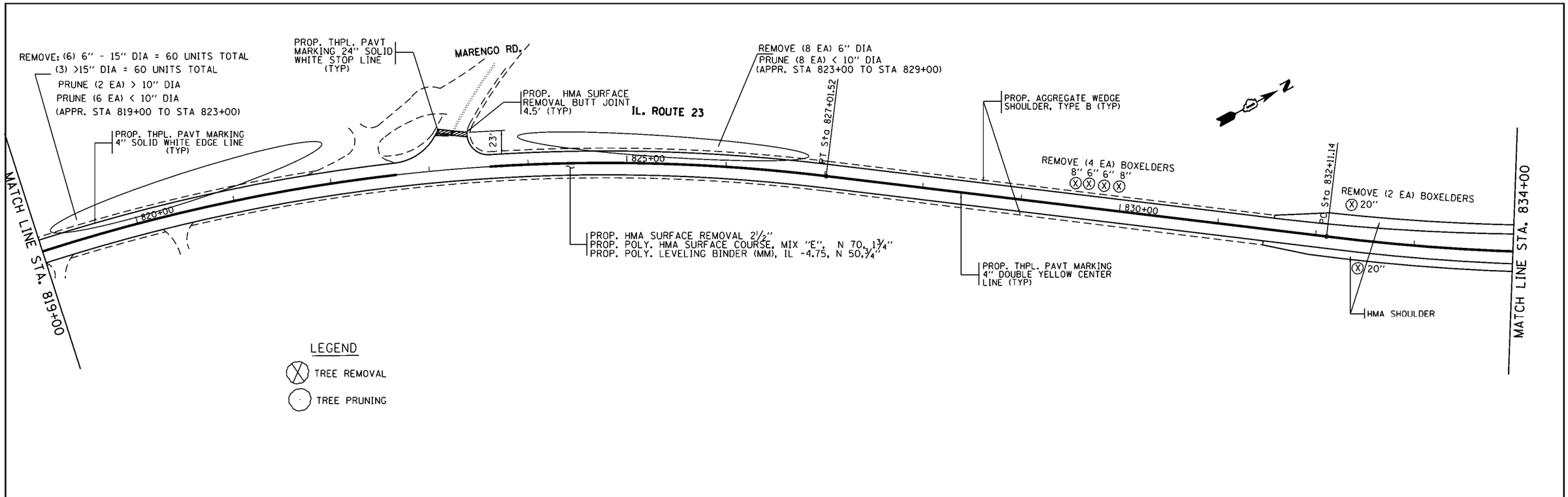

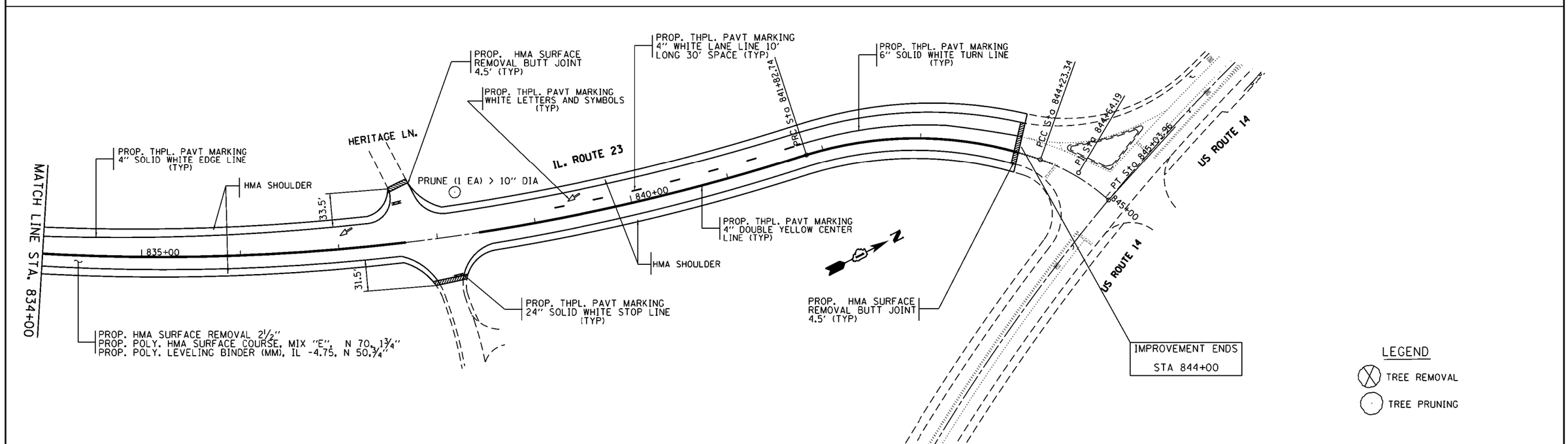

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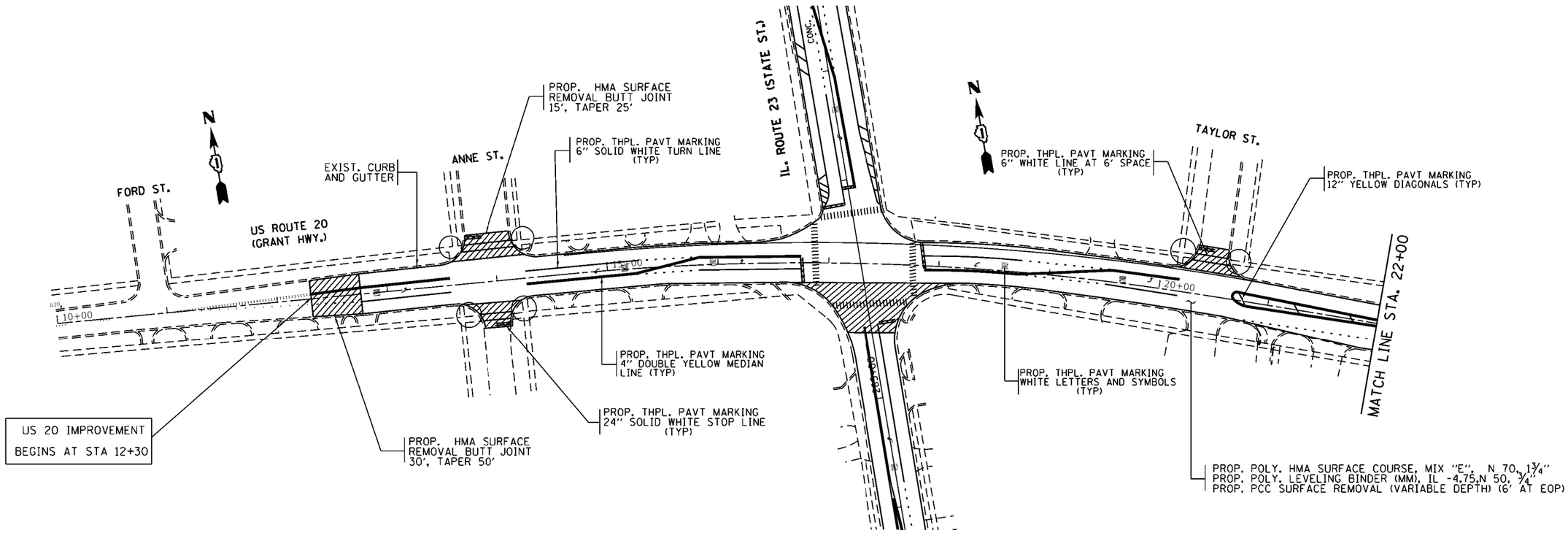
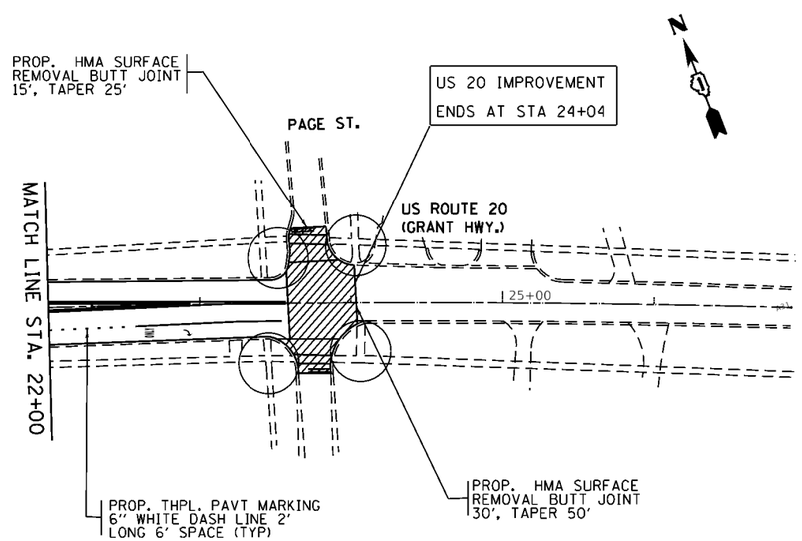
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	37
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/25/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			

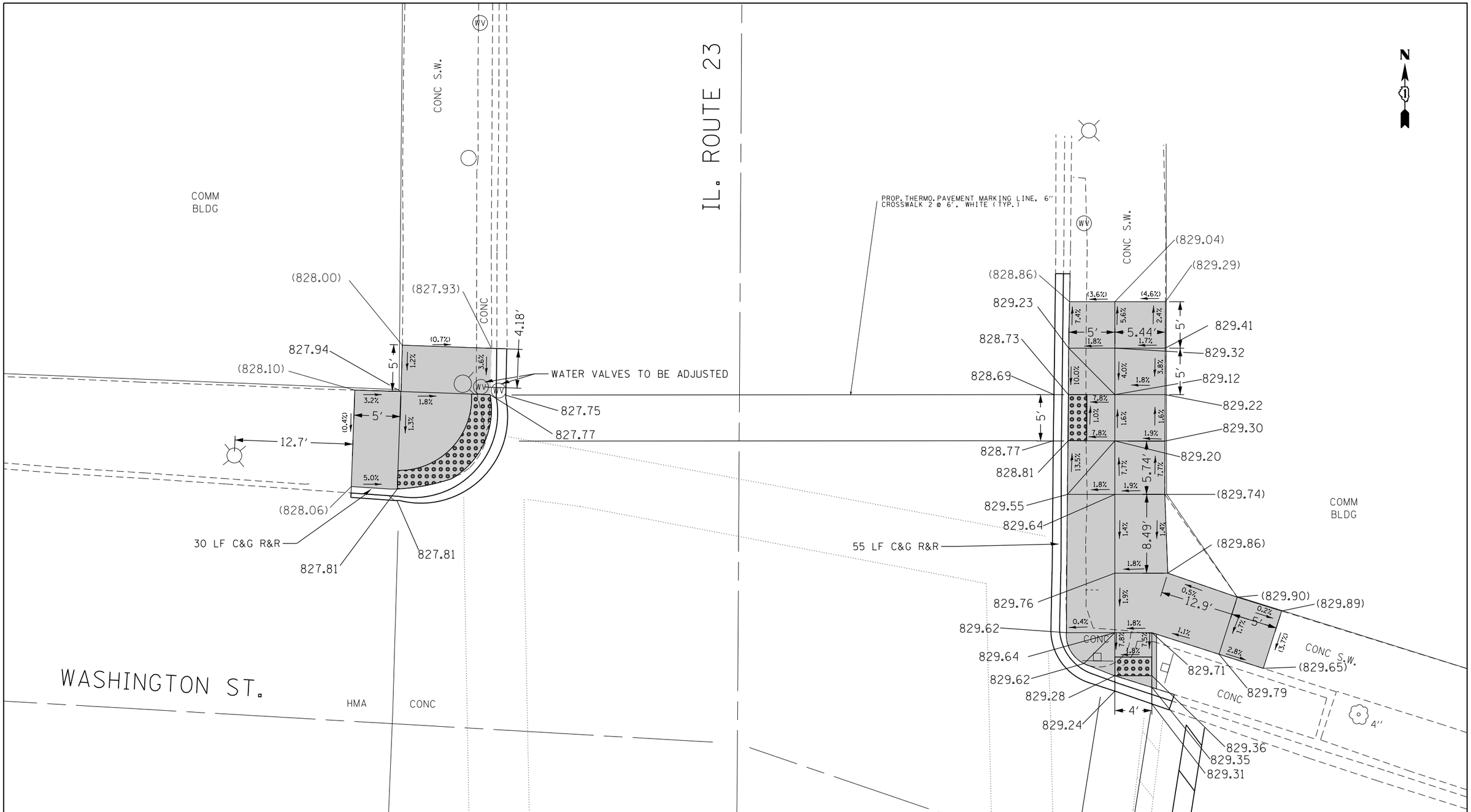




LEGEND

○ PROPOSED ADA RAMP
(SEE DETAILS)

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-sht-plan.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN IL. ROUTE 23 (I-90 TO US ROUTE 14)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -			324	(23 & 24)RS-2	MCHENRY	74	38
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 62C84		
Default	PLOT DATE = 8/23/2017	DATE -	REVISED -		SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.		ILLINOIS FED. AID PROJECT			



REFERENCE BENCHMARK ELEVATION 828.70

BENCHMARK : CHISELED SQUARE IN WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND WASHINGTON ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 828.70

BENCHMARK : CHISELED SQUARE IN WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND WASHINGTON ST.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Working Data\Design\D139116-ADA.dgn	USER NAME = diazia	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

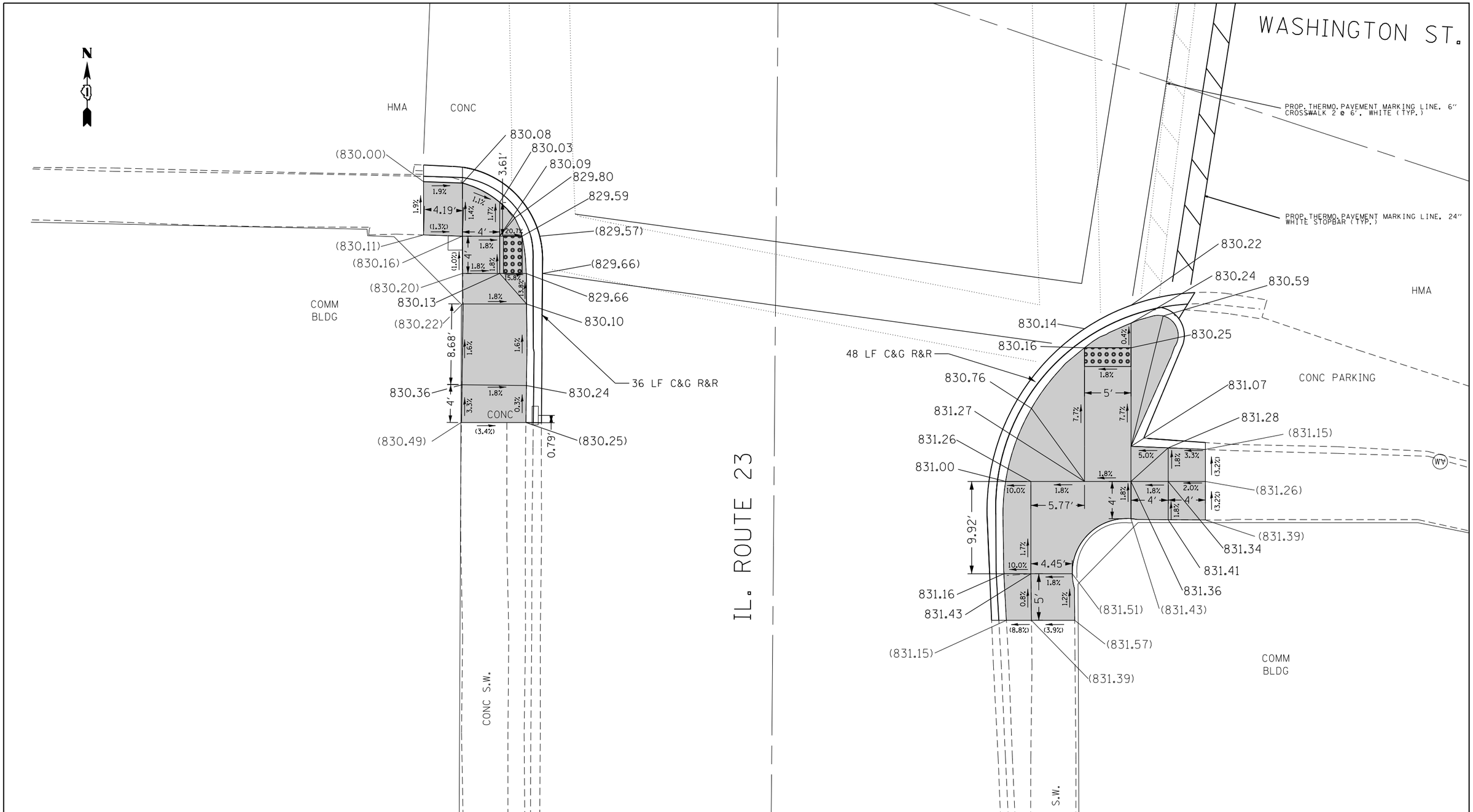
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	39

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 828.70

BENCHMARK : CHISELED SQUARE IN WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND WASHINGTON ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 828.70

BENCHMARK : CHISELED SQUARE IN WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND WASHINGTON ST.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-ADA.dgn	USER NAME = diazia	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

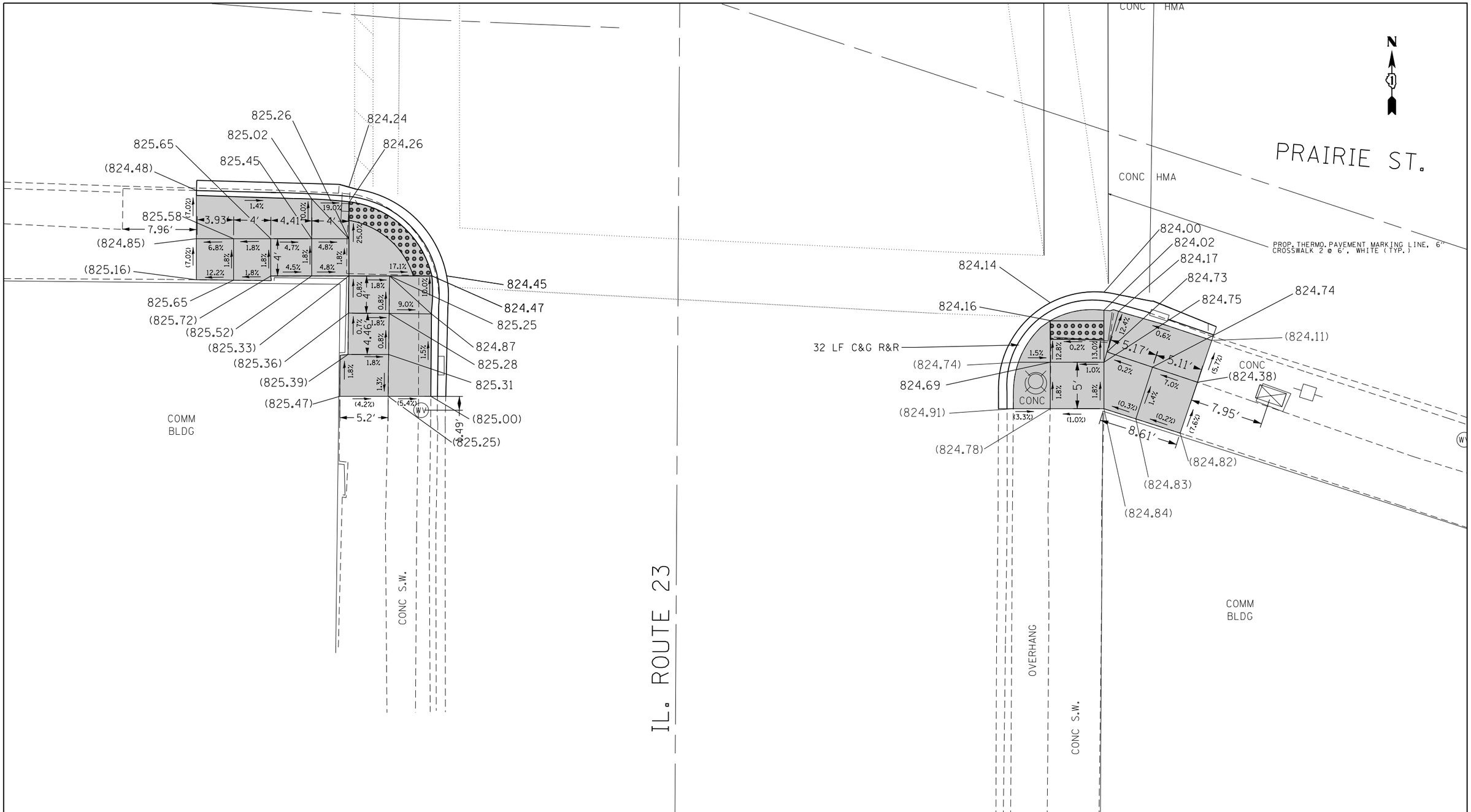
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	40

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 823.59

BENCHMARK : CHISELED SQUARE IN THE WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 823.59

BENCHMARK : CHISELED SQUARE IN THE WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-ADA.dgn	USER NAME = diazia	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/25/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

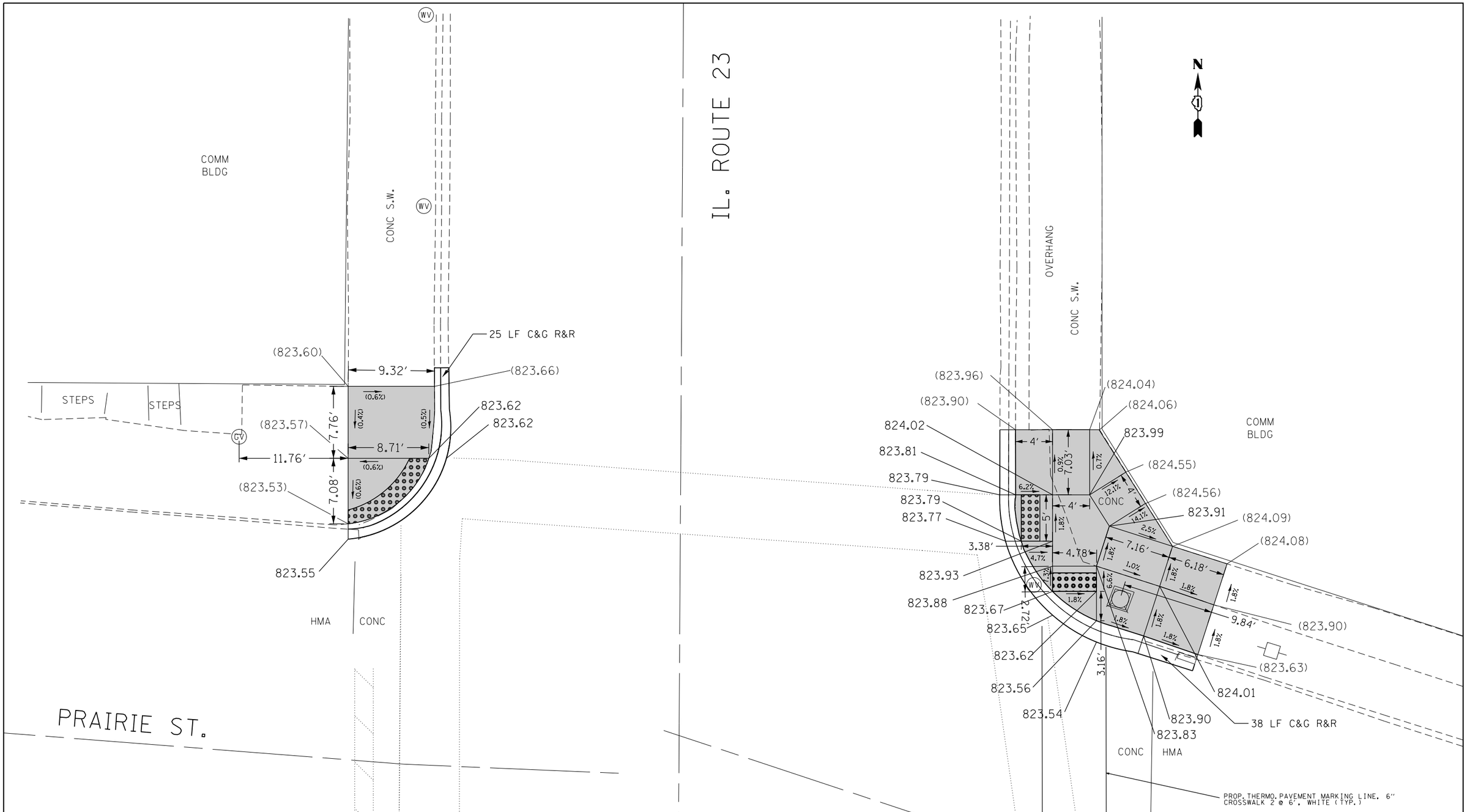
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	41

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 823.59

BENCHMARK : CHISELED SQUARE IN THE WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

LEGEND

xx.xx′	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 823.59

BENCHMARK : CHISELED SQUARE IN THE WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-ADA.dgn	USER NAME = diazia	DESIGNED -	REVISED -
		DRAWN -	REVISED -
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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

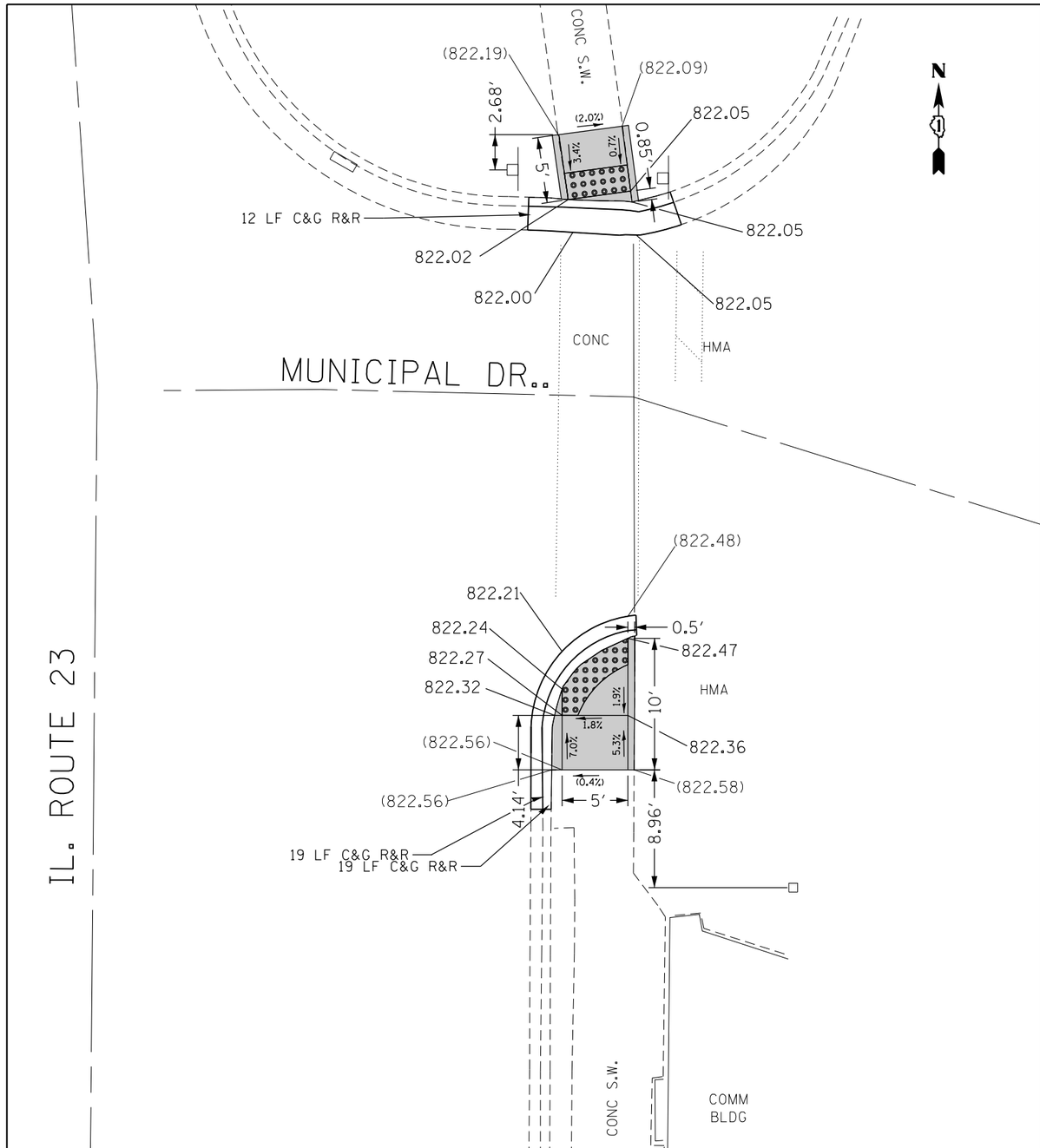
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	42

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 823.59

BENCHMARK : CHISELED SQUARE IN THE WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139116\Data\Design\D139116-ADA.dgn	USER NAME = diazia	DESIGNED -	REVISED -
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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

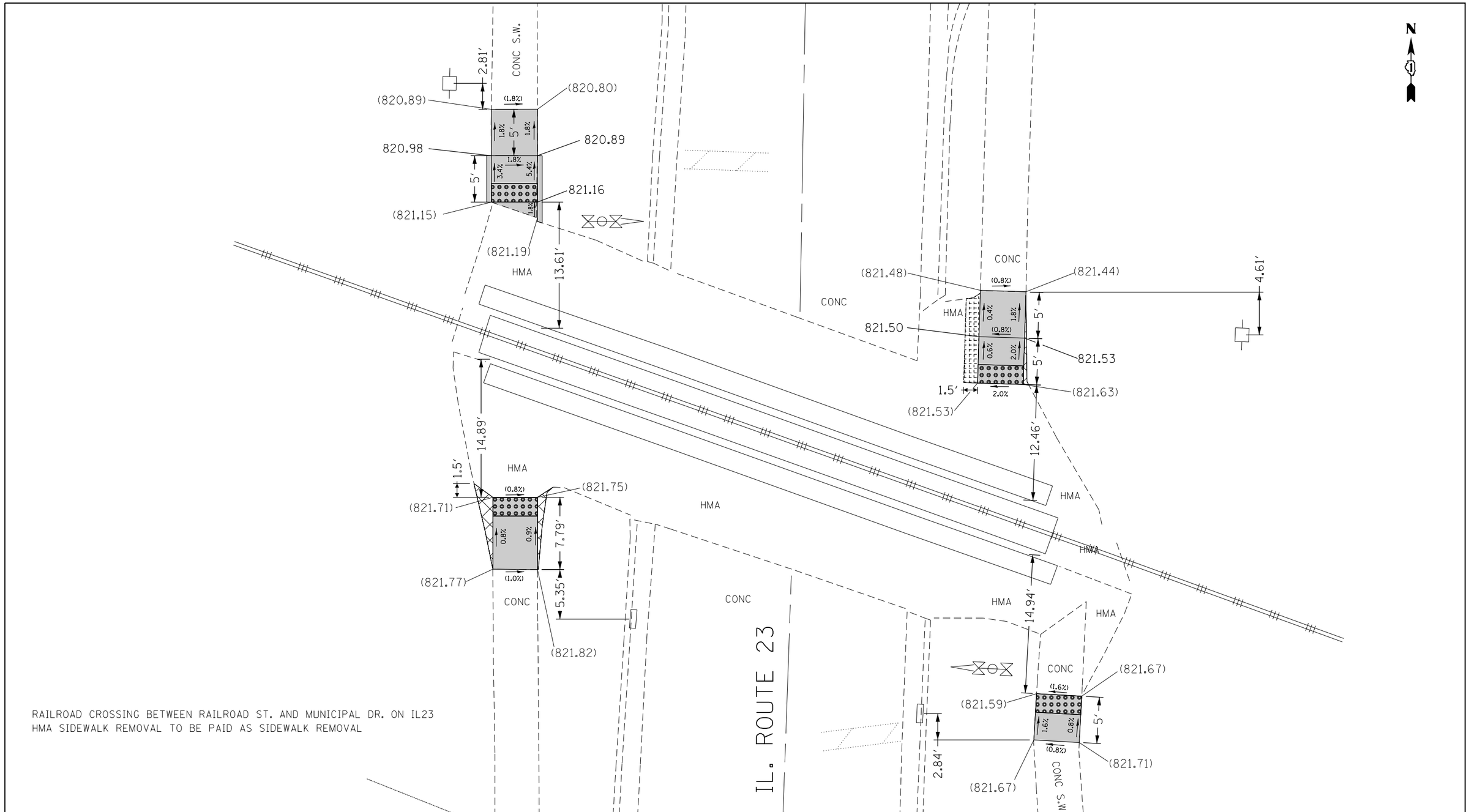
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	43

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



RAILROAD CROSSING BETWEEN RAILROAD ST. AND MUNICIPAL DR. ON IL23
HMA SIDEWALK REMOVAL TO BE PAID AS SIDEWALK REMOVAL

REFERENCE BENCHMARK ELEVATION 823.57

BENCHMARK : CHISELED SQUARE ON WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD
	CLASS D PATCH

REFERENCE BENCHMARK ELEVATION 823.57

BENCHMARK : CHISELED SQUARE ON WEST CONCRETE BASE OF LIGHT POLE.

LOCATION : NORTHEAST CORNER OF IL23 AND PRAIRIE ST.

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	PLOT SCALE = 10.00 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

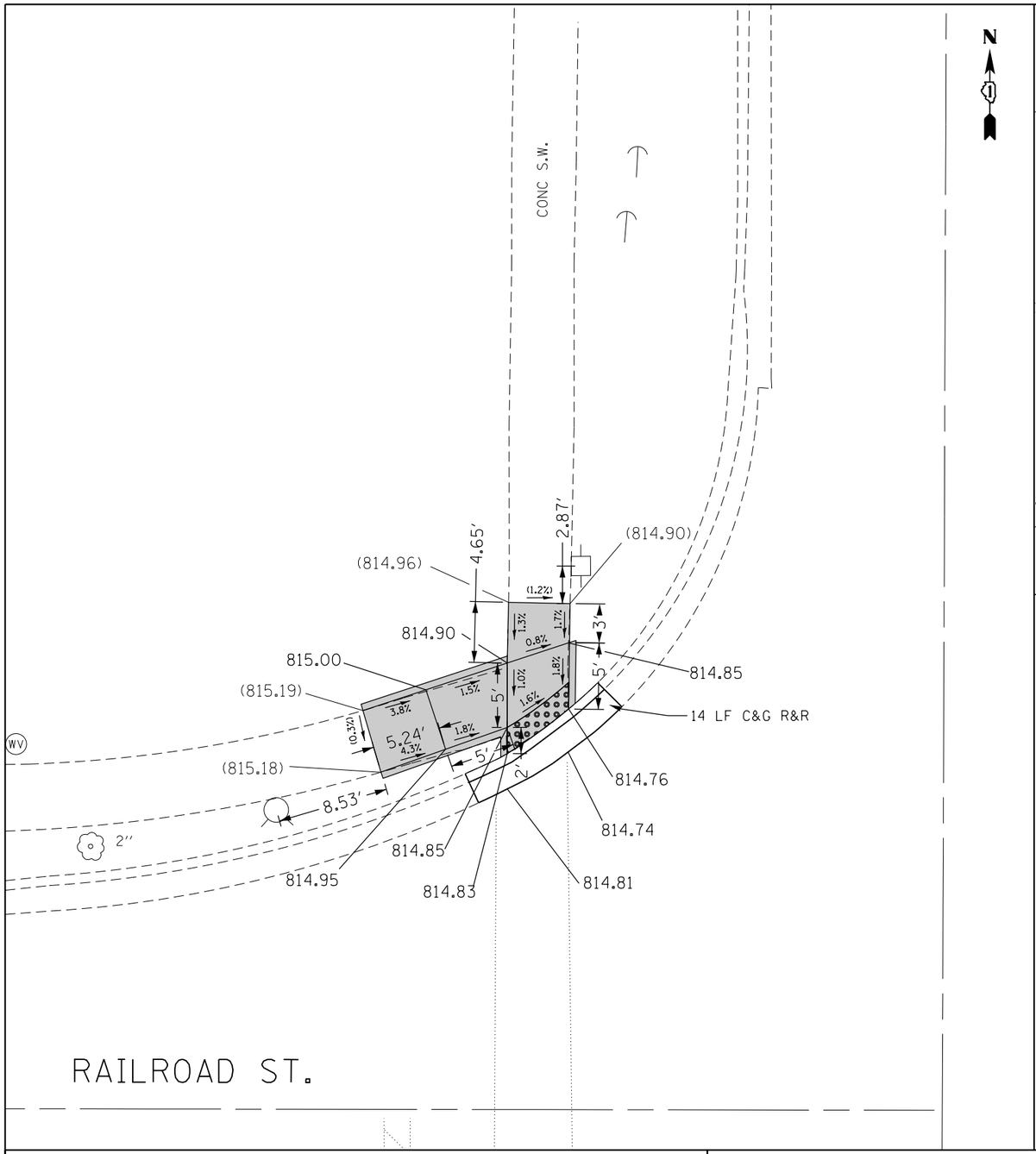
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

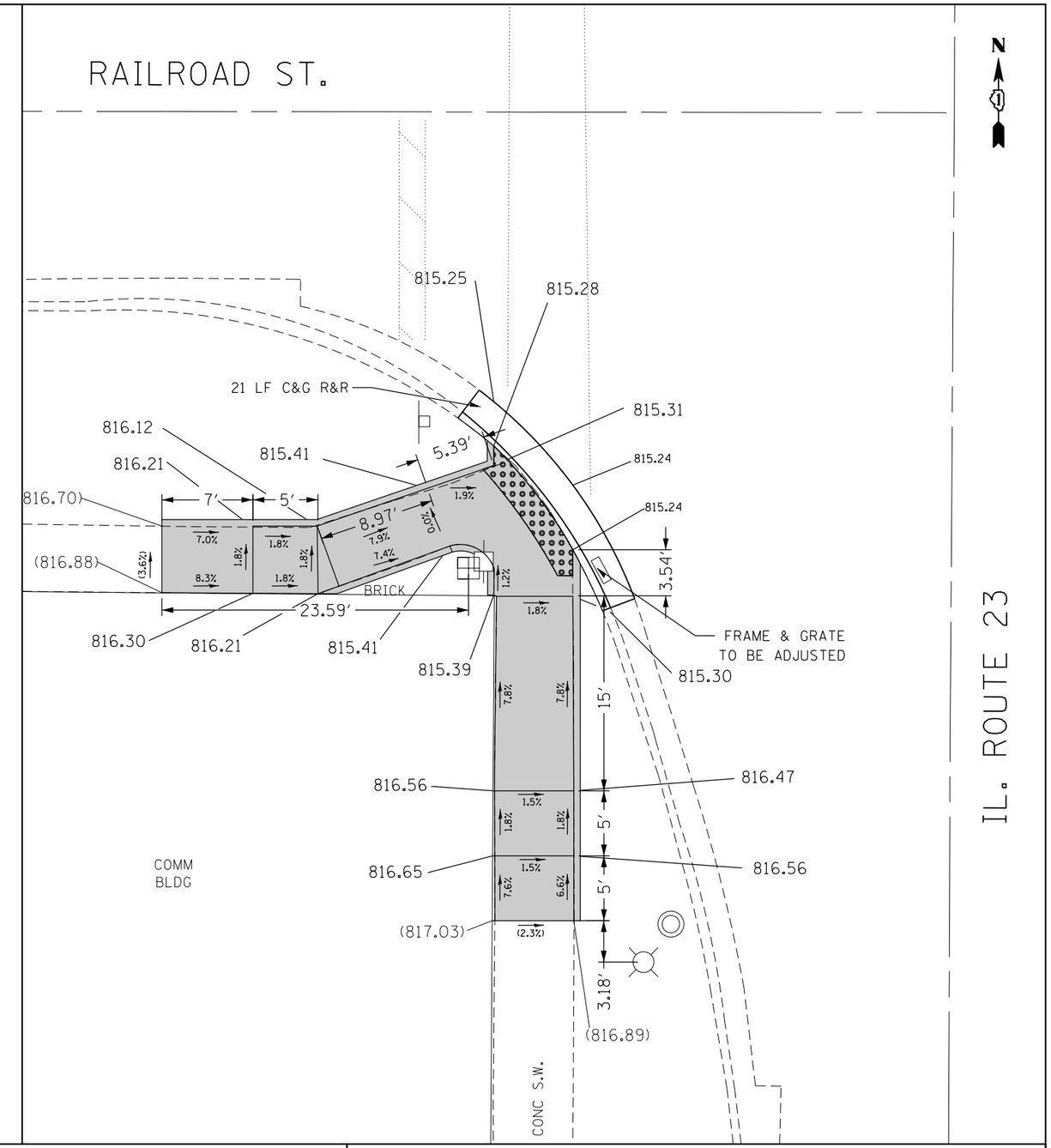
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	44

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 816.82

BENCHMARK : CHISELED SQUARE IN EAST CONCRETE BASE OF LIGHT POLE

LOCATION : SOUTHWEST CORNER OF IL23 AND RAILROAD ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 816.82

BENCHMARK : CHISELED SQUARE IN EAST CONCRETE BASE OF LIGHT POLE

LOCATION : SOUTHWEST CORNER OF IL23 AND RAILROAD ST.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

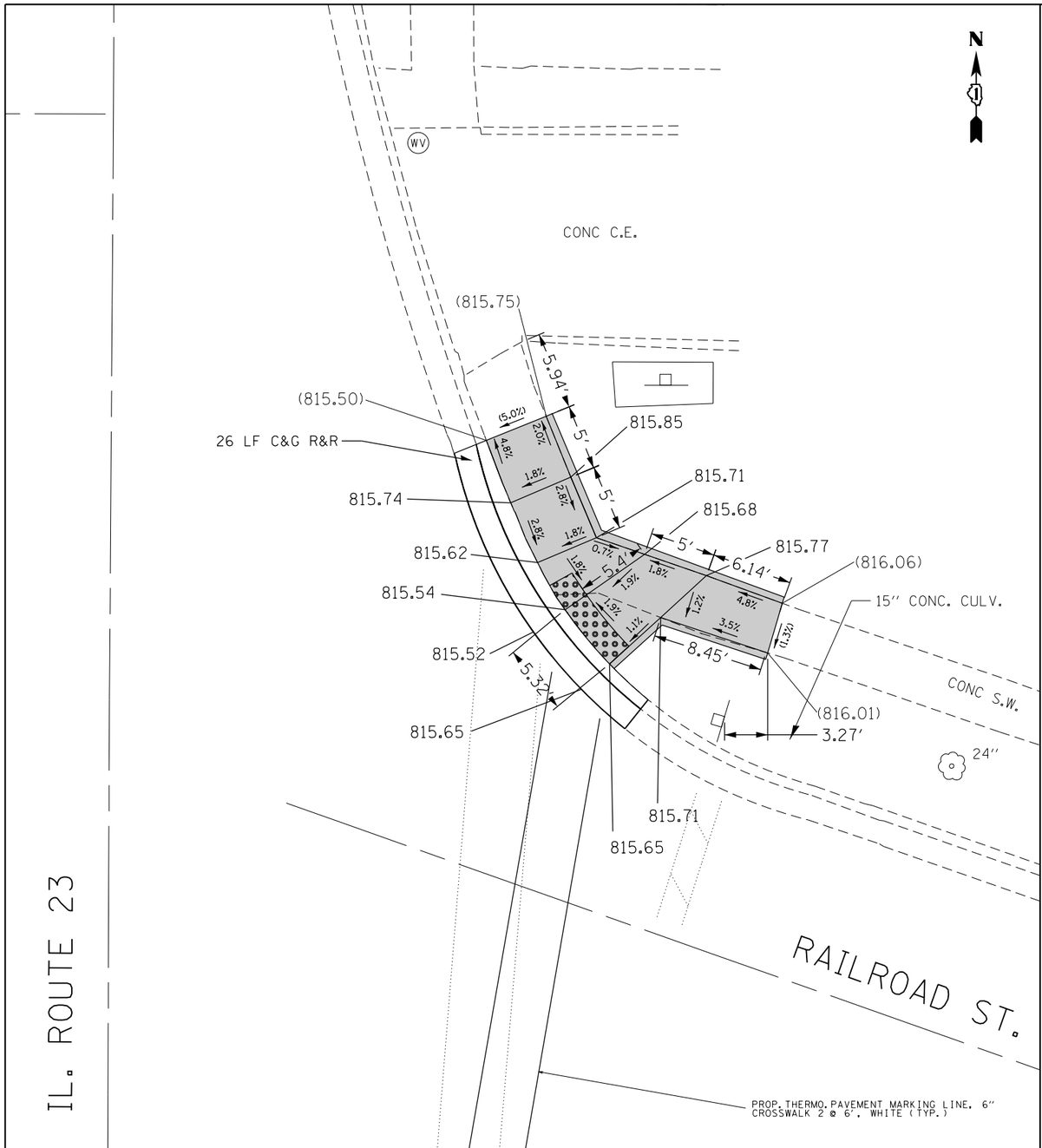
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

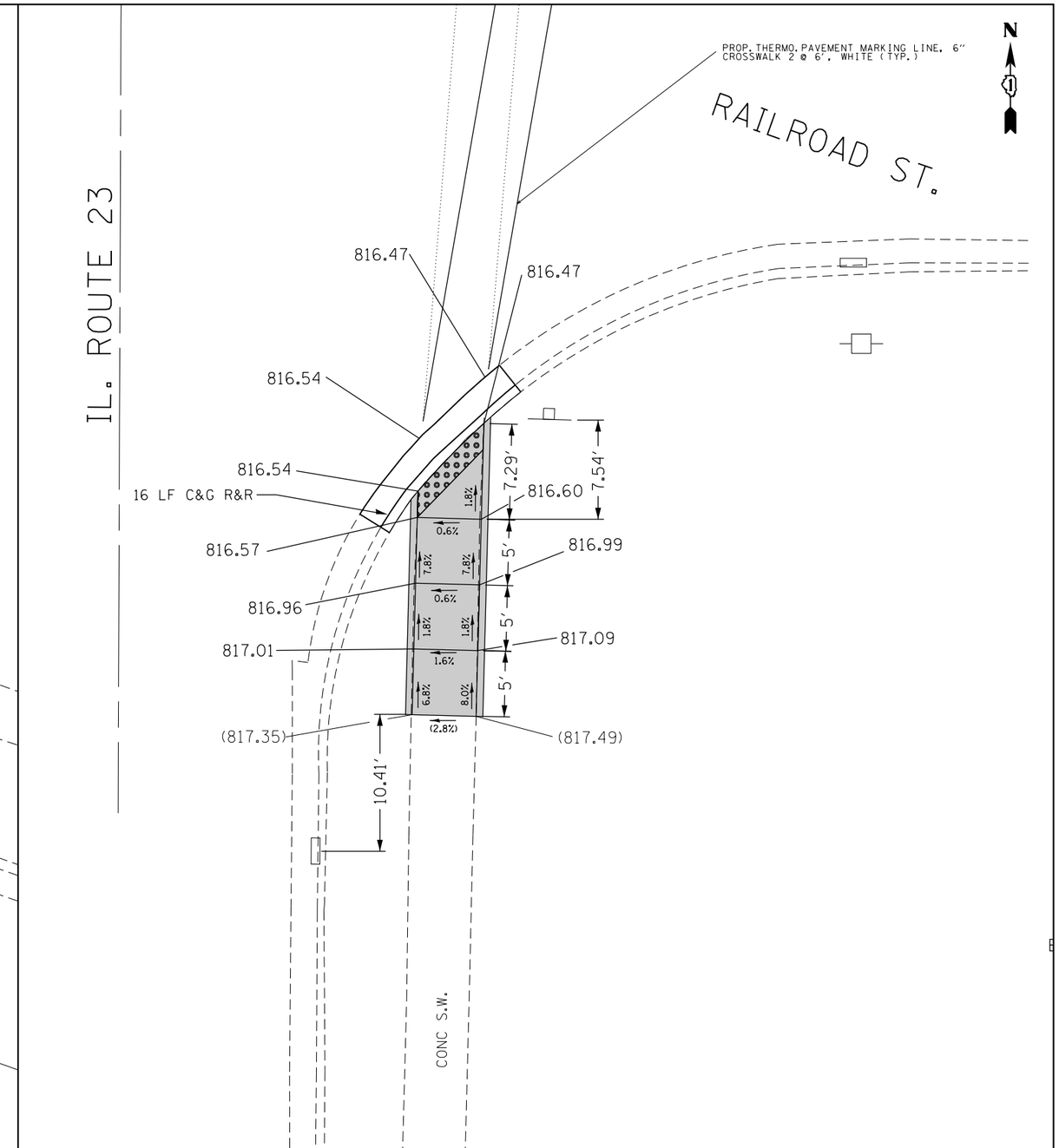
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	45

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 816.82

BENCHMARK : CHISELED SQUARE IN EAST CONCRETE BASE OF LIGHT POLE

LOCATION : SOUTHWEST CORNER OF IL23 AND RAILROAD ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 816.82

BENCHMARK : CHISELED SQUARE IN EAST CONCRETE BASE OF LIGHT POLE

LOCATION : SOUTHWEST CORNER OF IL23 AND RAILROAD ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

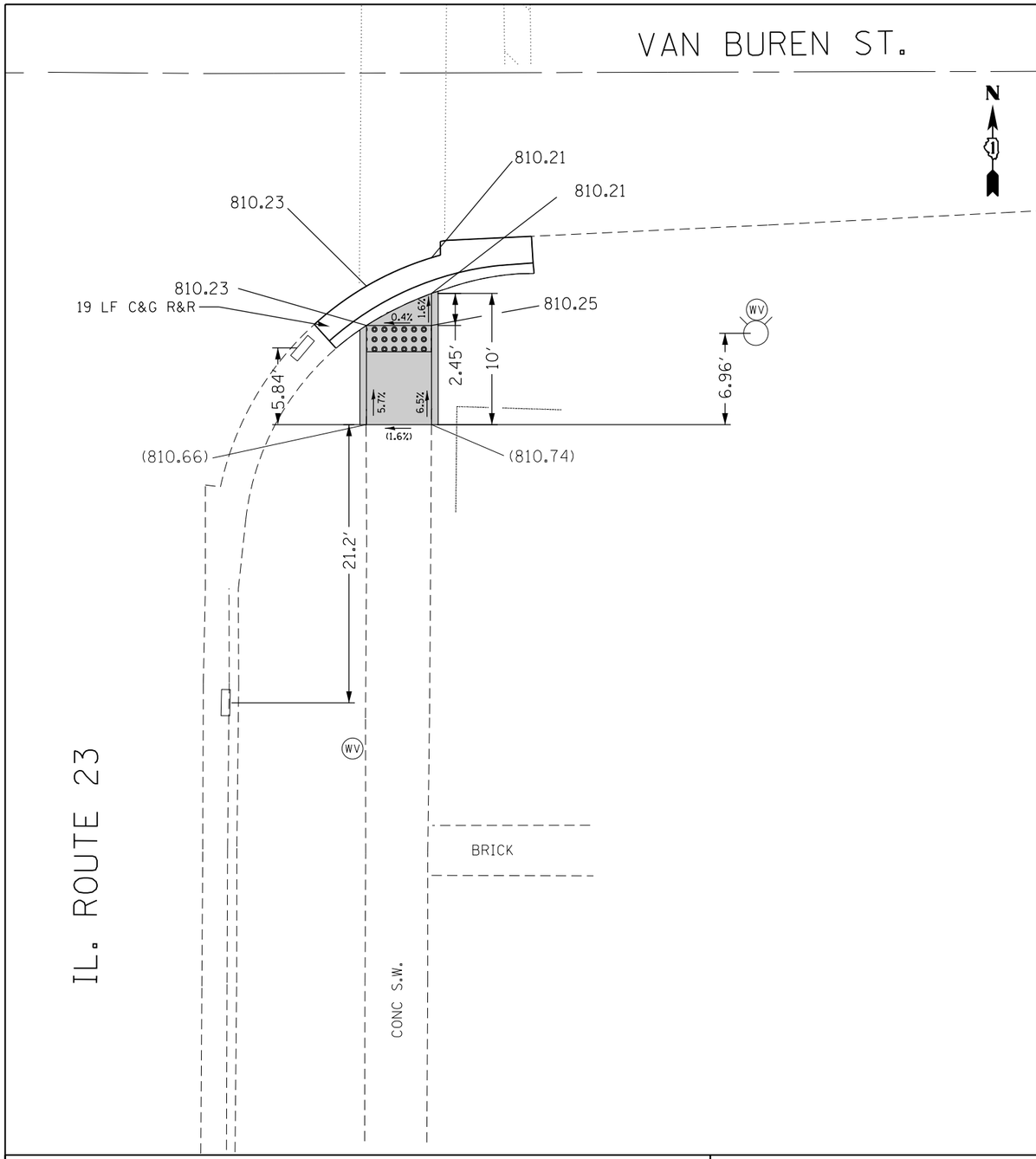
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

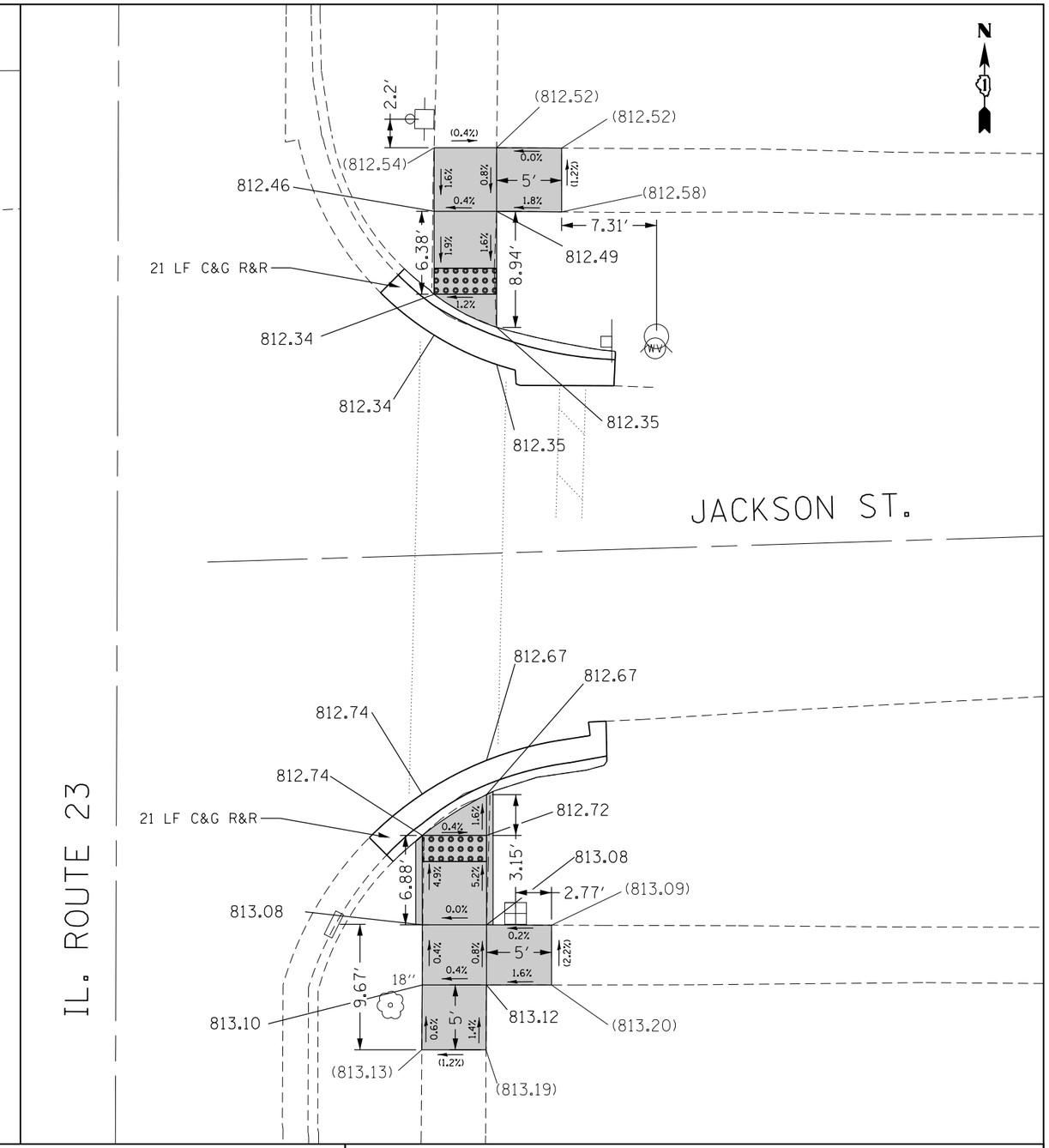
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	46

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 812.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT.

LOCATION : SOUTHEAST CORNER OF IL23 AND VAN BUREN ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 812.32

BENCHMARK : CHISELED SQUARE EAST SIDE OF CONCRETE BASE OF LIGHT POLE.

LOCATION : WEST SIDE OF IL23 AND JACKSON ST. ±60' NORTH OF JACKSON ST.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

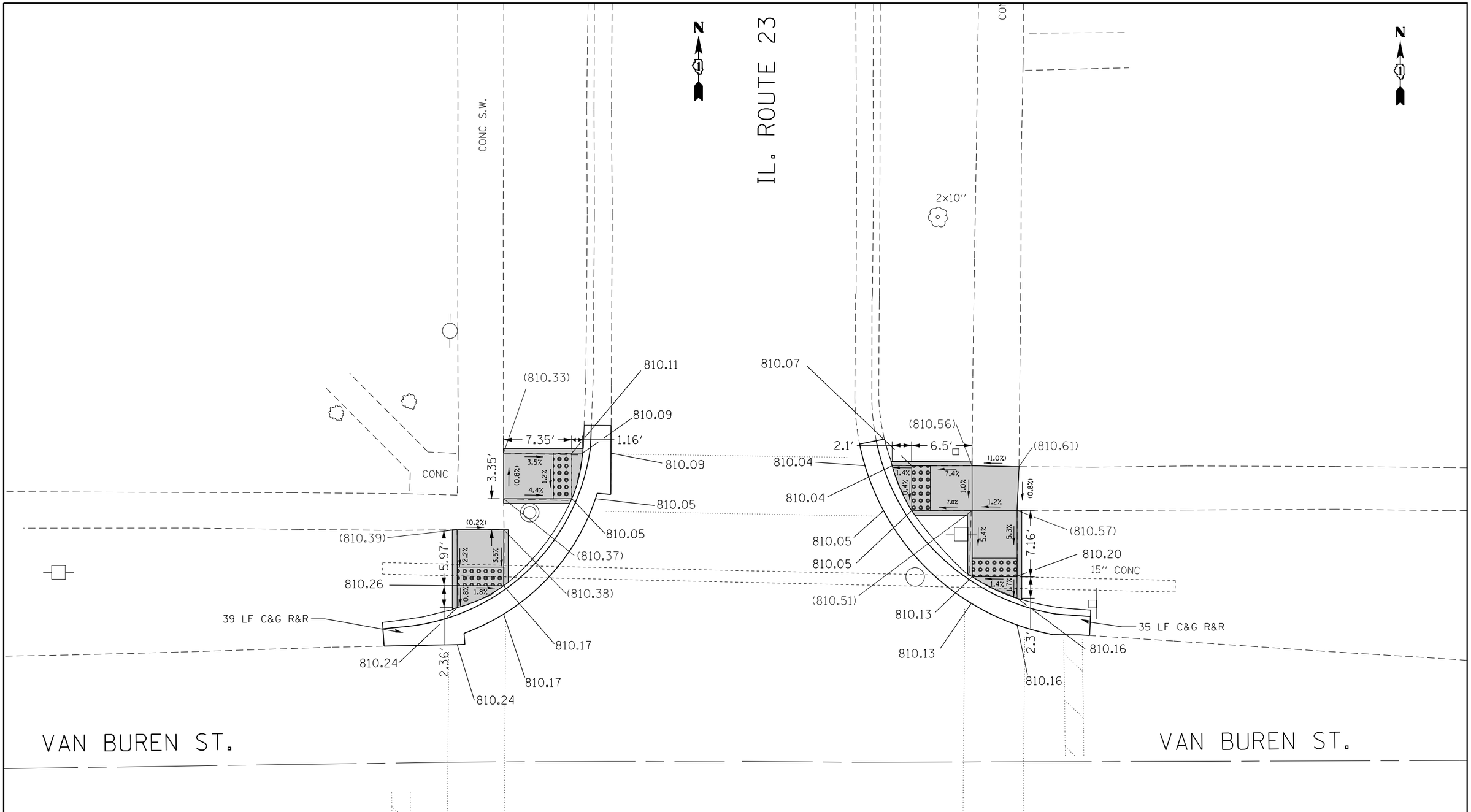
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	47

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 812.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT.

LOCATION : SOUTHEAST CORNER OF IL23 AND VAN BUREN ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 812.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT.

LOCATION : SOUTHEAST CORNER OF IL23 AND VAN BUREN ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

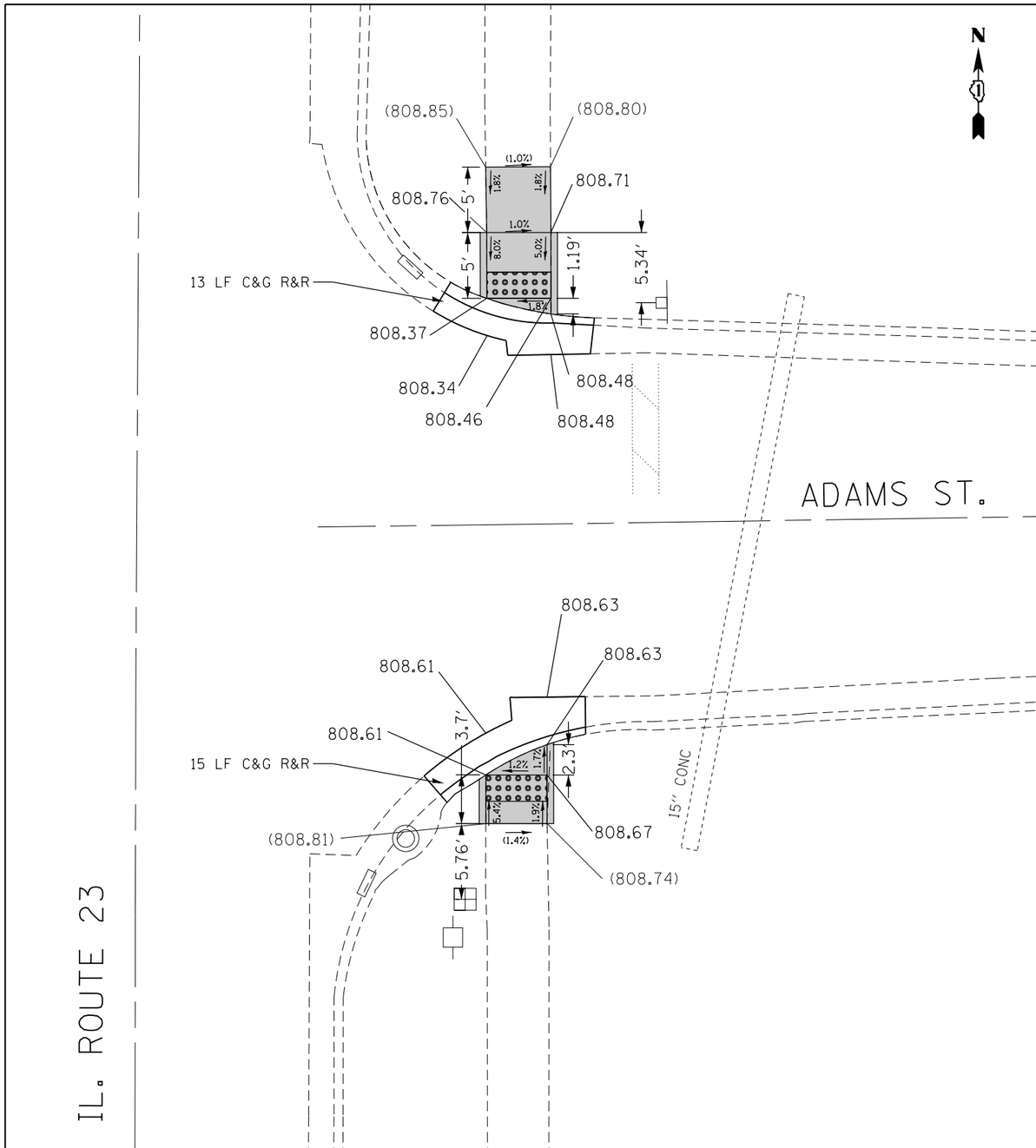
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

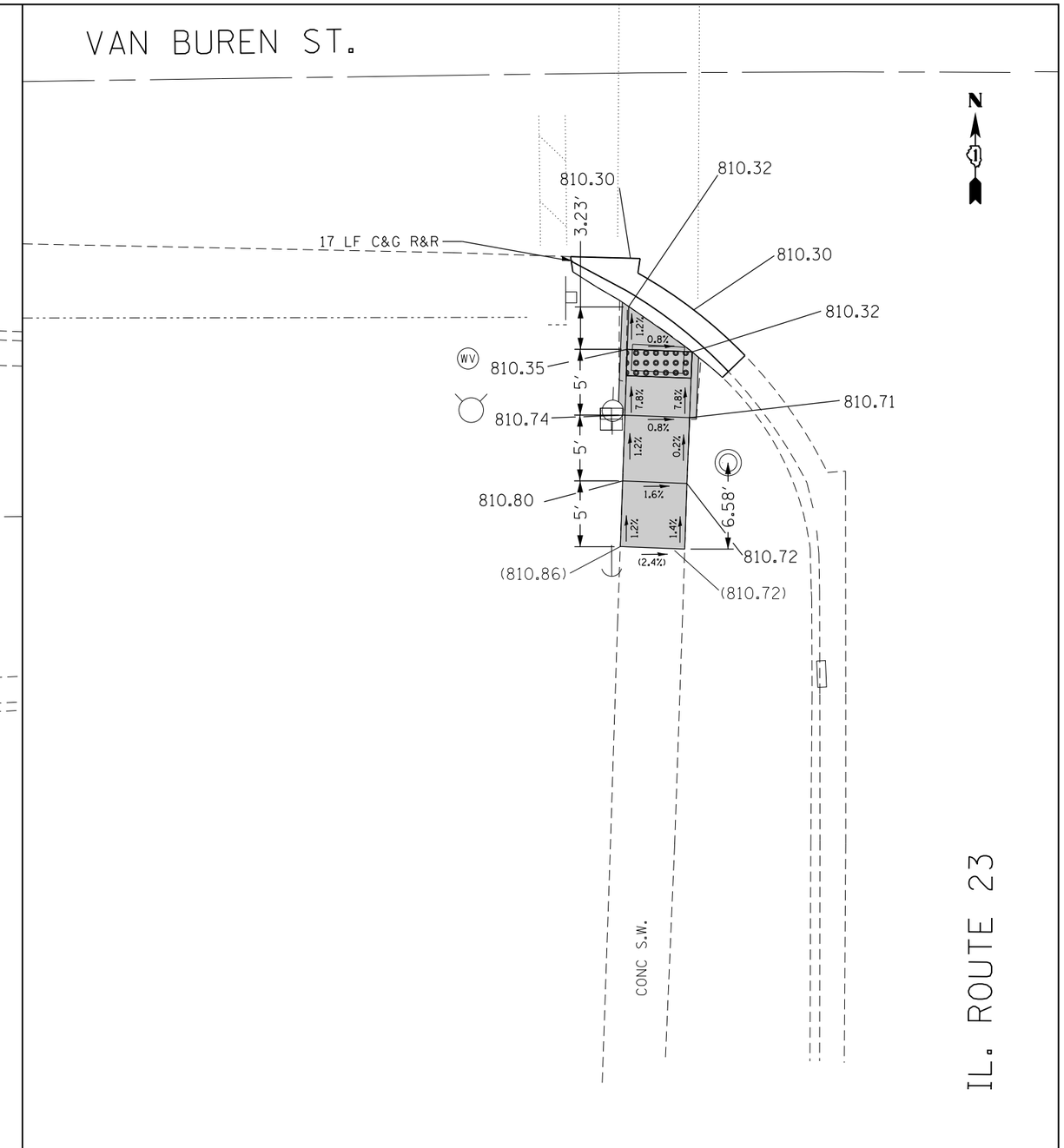
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	48

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 809.39

BENCHMARK : CHISELED SQUARE EAST SIDE OF CONCRETE BASE OF LIGHT POLE.

LOCATION : WEST SIDE OF IL23 AND ADAMS ST ±50' SOUTH OF ADAMS.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 812.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT.

LOCATION : SOUTHEAST CORNER OF IL23 AND VAN BUREN ST.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

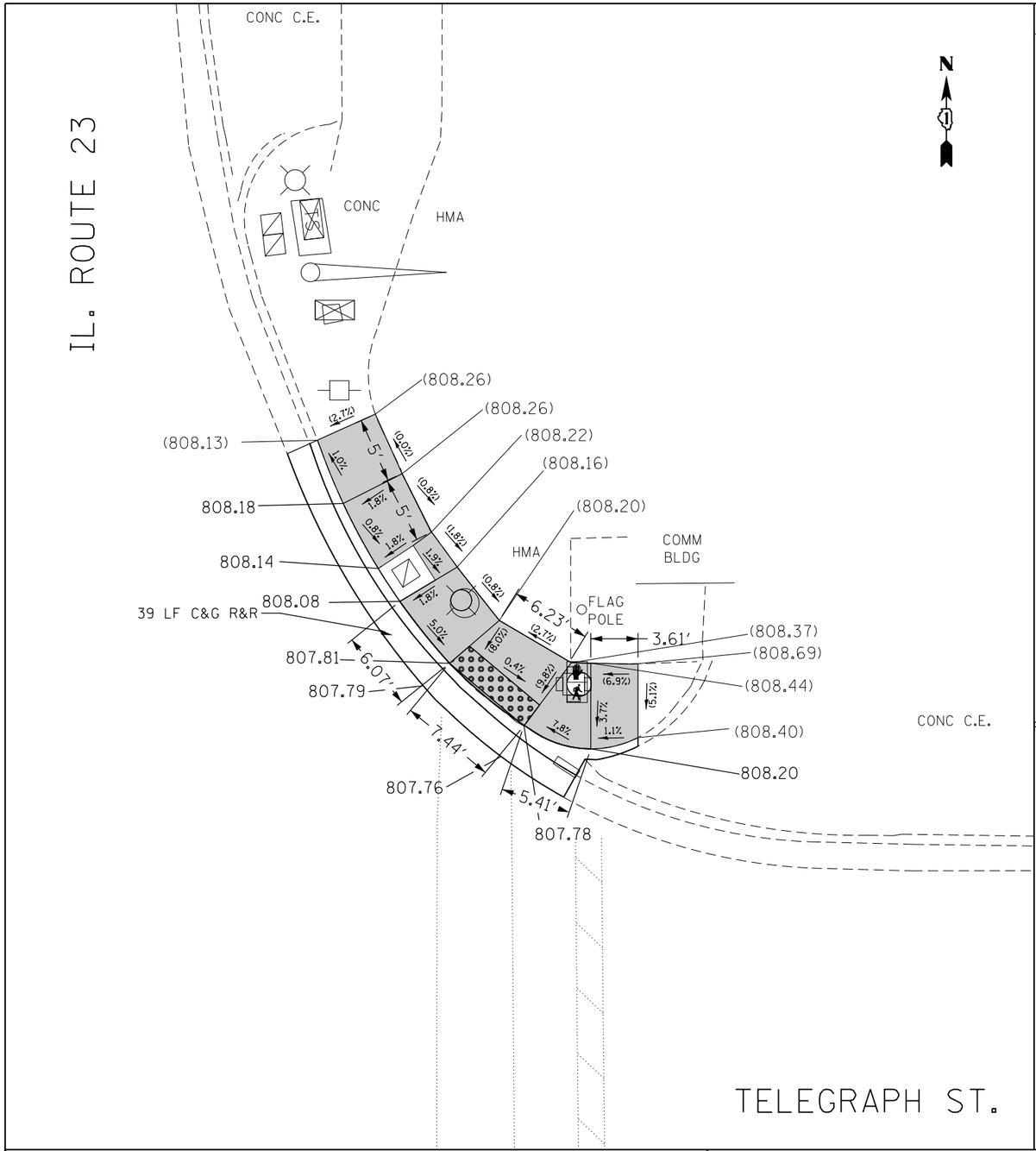
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

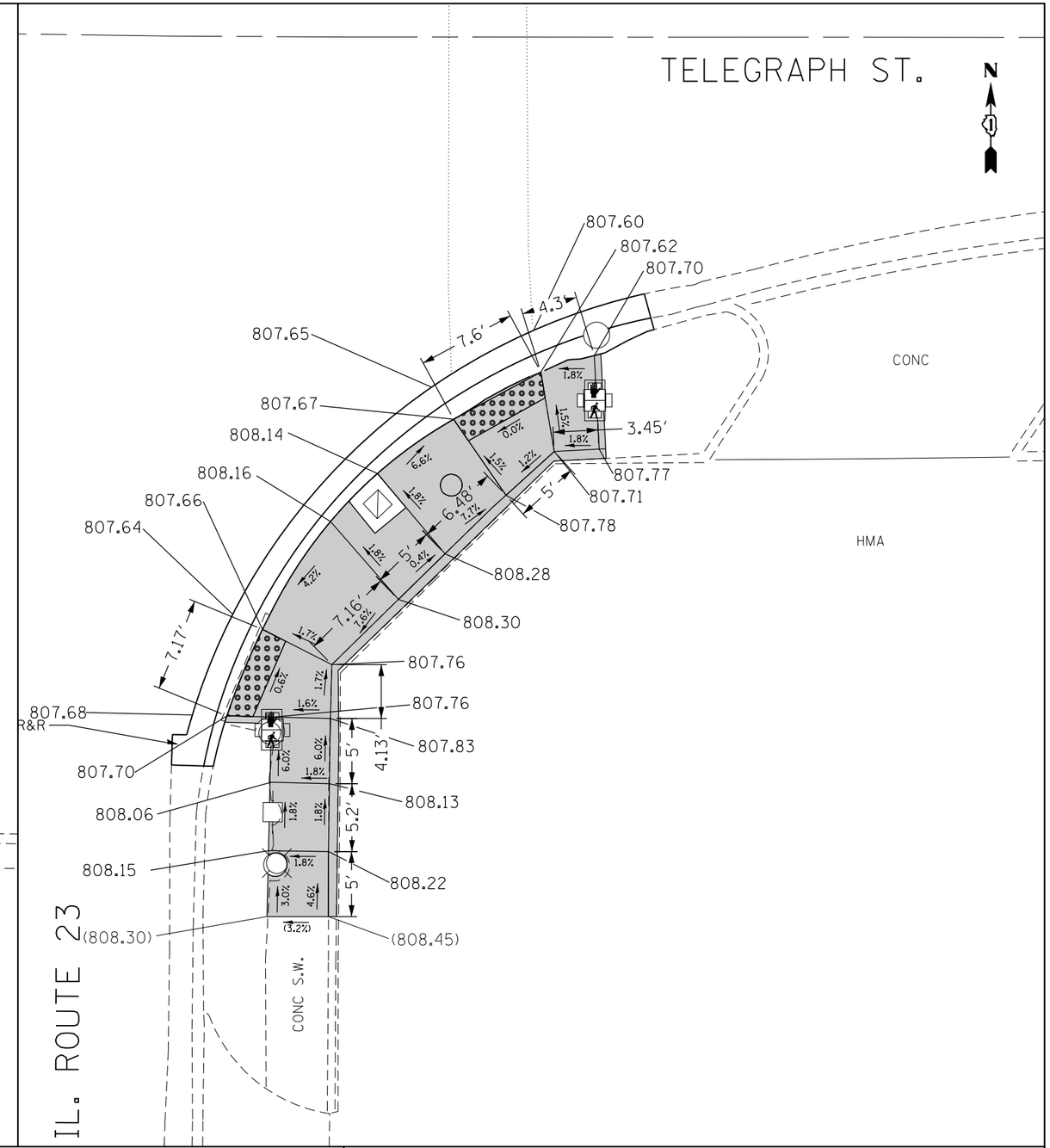
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	49

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 808.34

BENCHMARK : CHISELED SQUARE IN THE WEST SIDE OF CONCRETE BASE OF T.S. W/ ARM

LOCATION : NORTHEAST CORNER OF IL-23 AND TELEGRAPH

LEGEND

xx.xx'	EXISTING LENGTH
	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 808.34

BENCHMARK : CHISELED SQUARE IN THE WEST SIDE OF CONCRETE BASE OF T.S. W/ ARM

LOCATION : NORTHEAST CORNER OF IL-23 AND TELEGRAPH

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

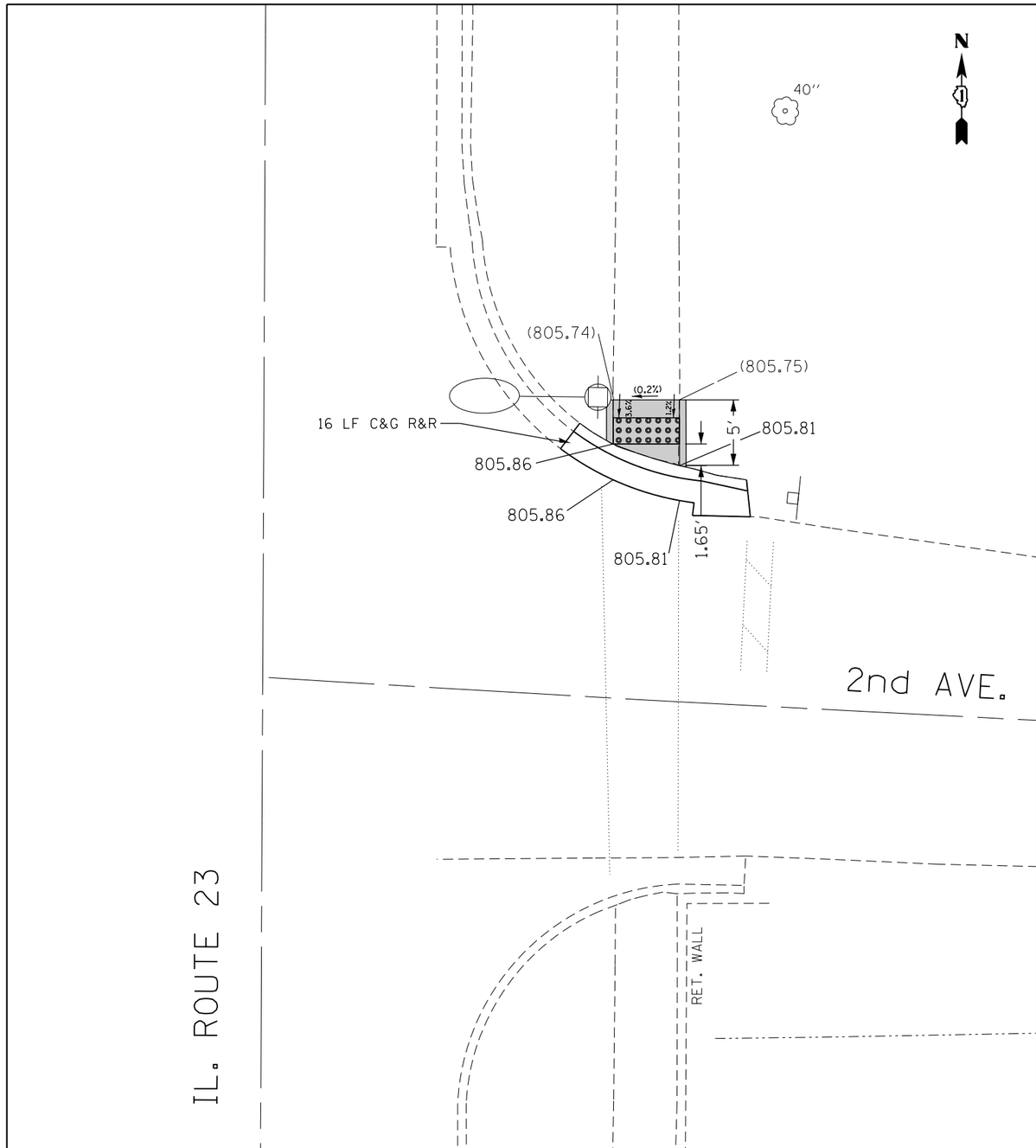
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

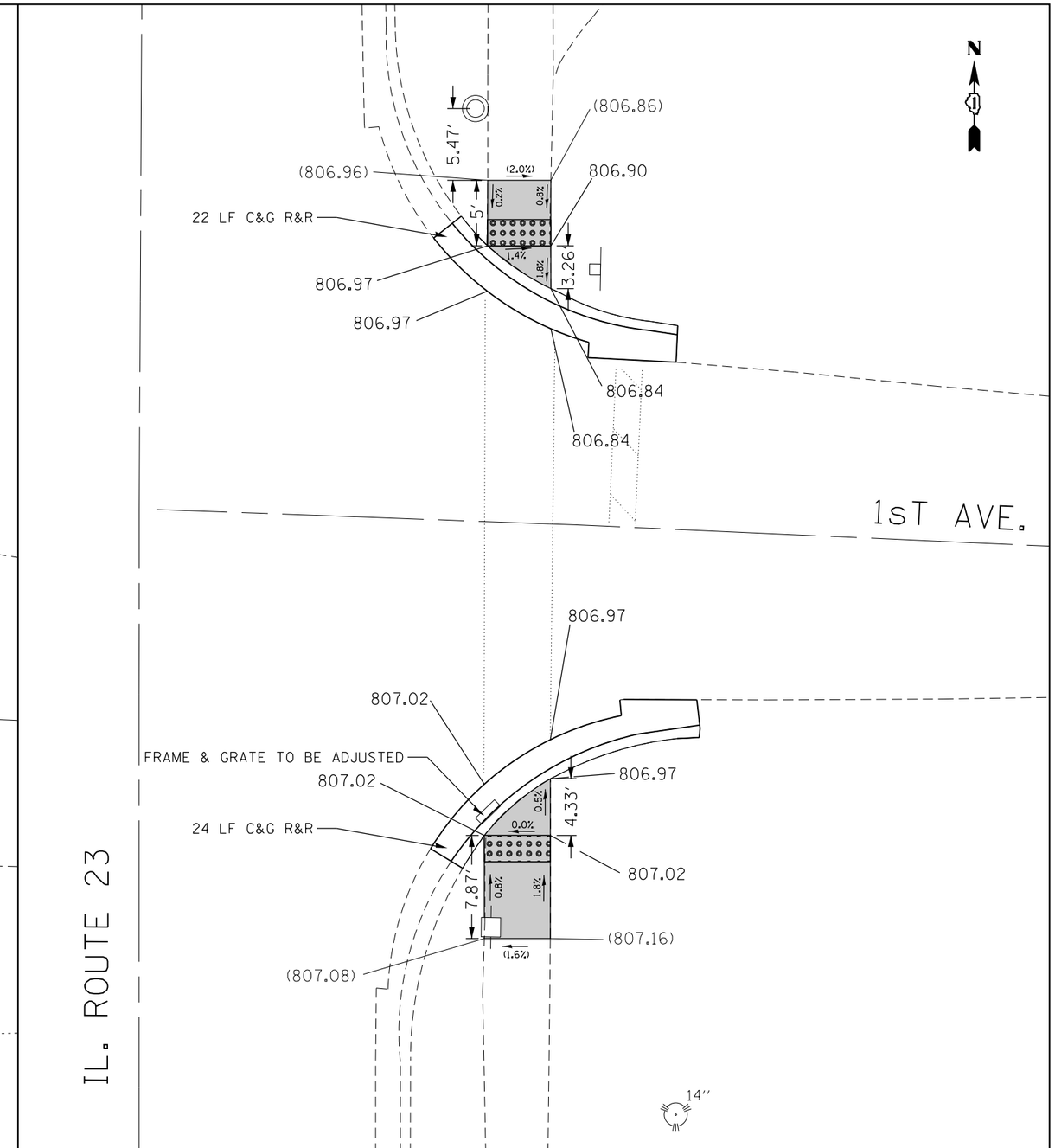
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	50

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 806.86

BENCHMARK : CHISELED SQUARE IN THE EAST SIDE OF CONCRETE BASE OF LIGHT POLE

LOCATION : WEST SIDE OF IL23 AND 2ND AVE. ±100' SOUTH OF 2ND AVE.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 807.46

BENCHMARK : "X" IN SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : WEST SIDE OF IL23 AND 1ST AVE. ±80' NORTH OF 1ST AVE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

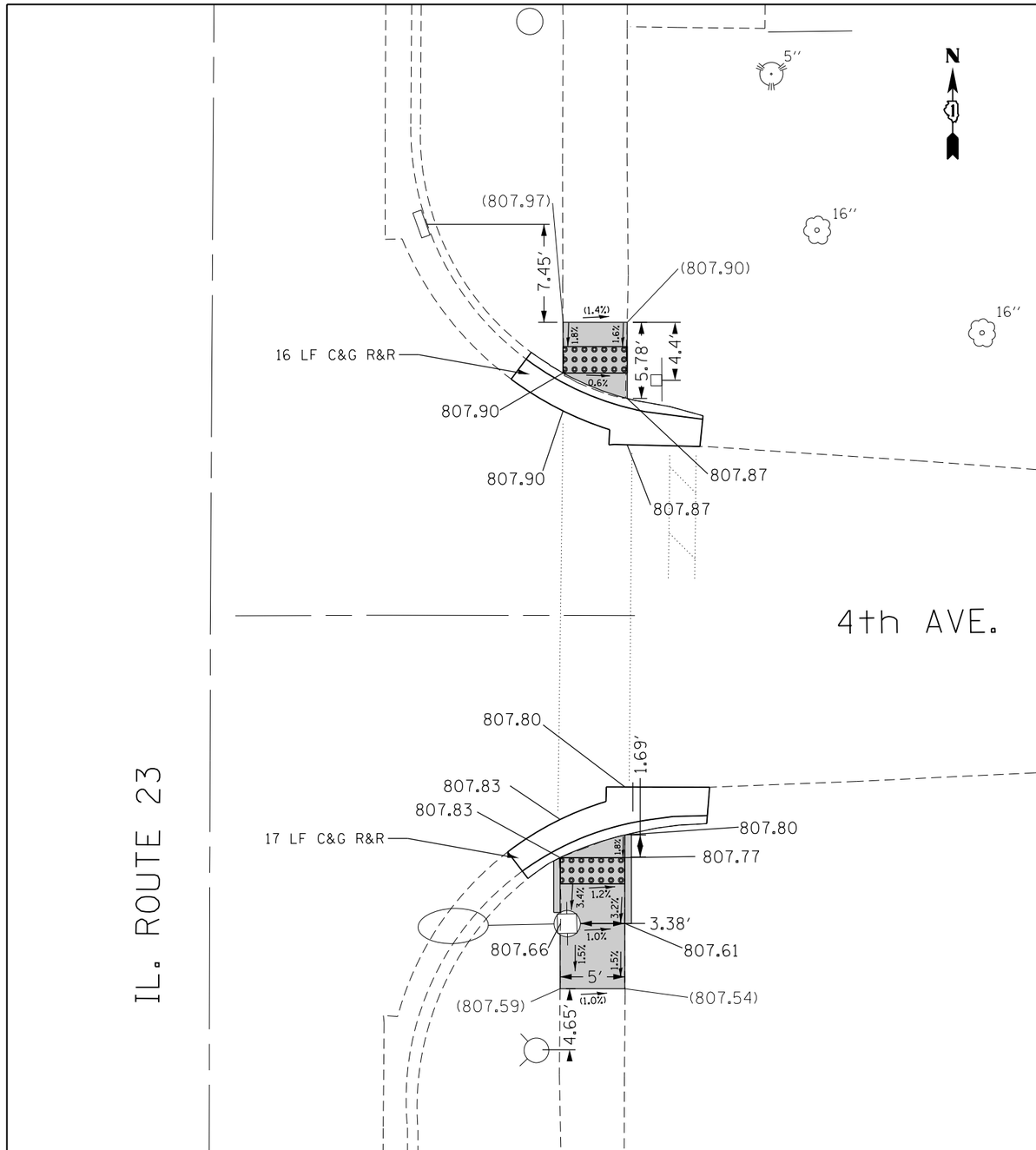
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

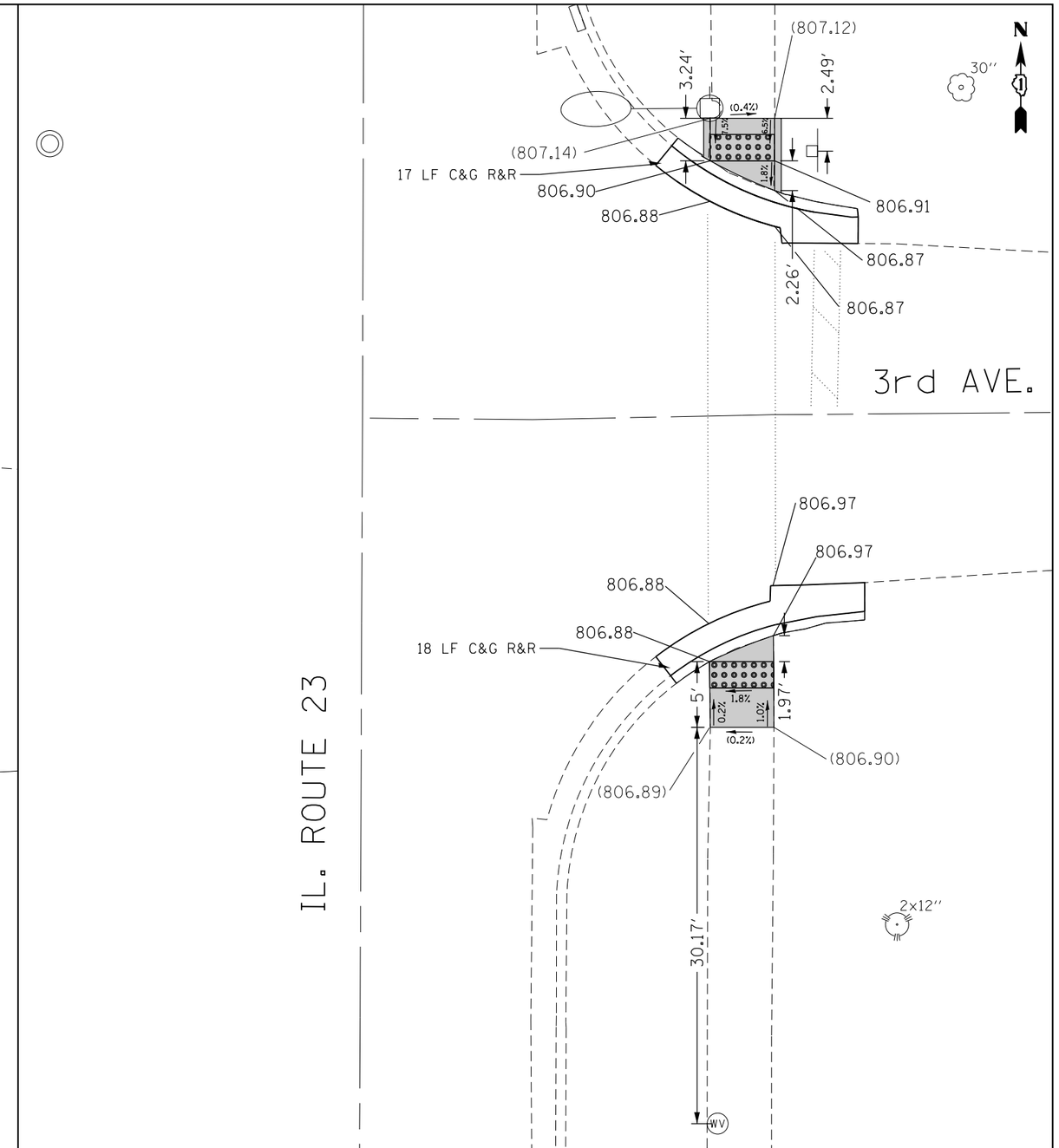
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	51

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 809.78

BENCHMARK : NORTHEAST BOLT OF FIRE HYDRANT

LOCATION : SOUTHEAST CORNER OF IL23 AND 4TH AVE.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 807.04

BENCHMARK : "X" IN WEST RIM OF MANHOLE

LOCATION : WEST SIDE OF IL23 AND 3RD AVE. ±15' NORTH OF 3RD AVE.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

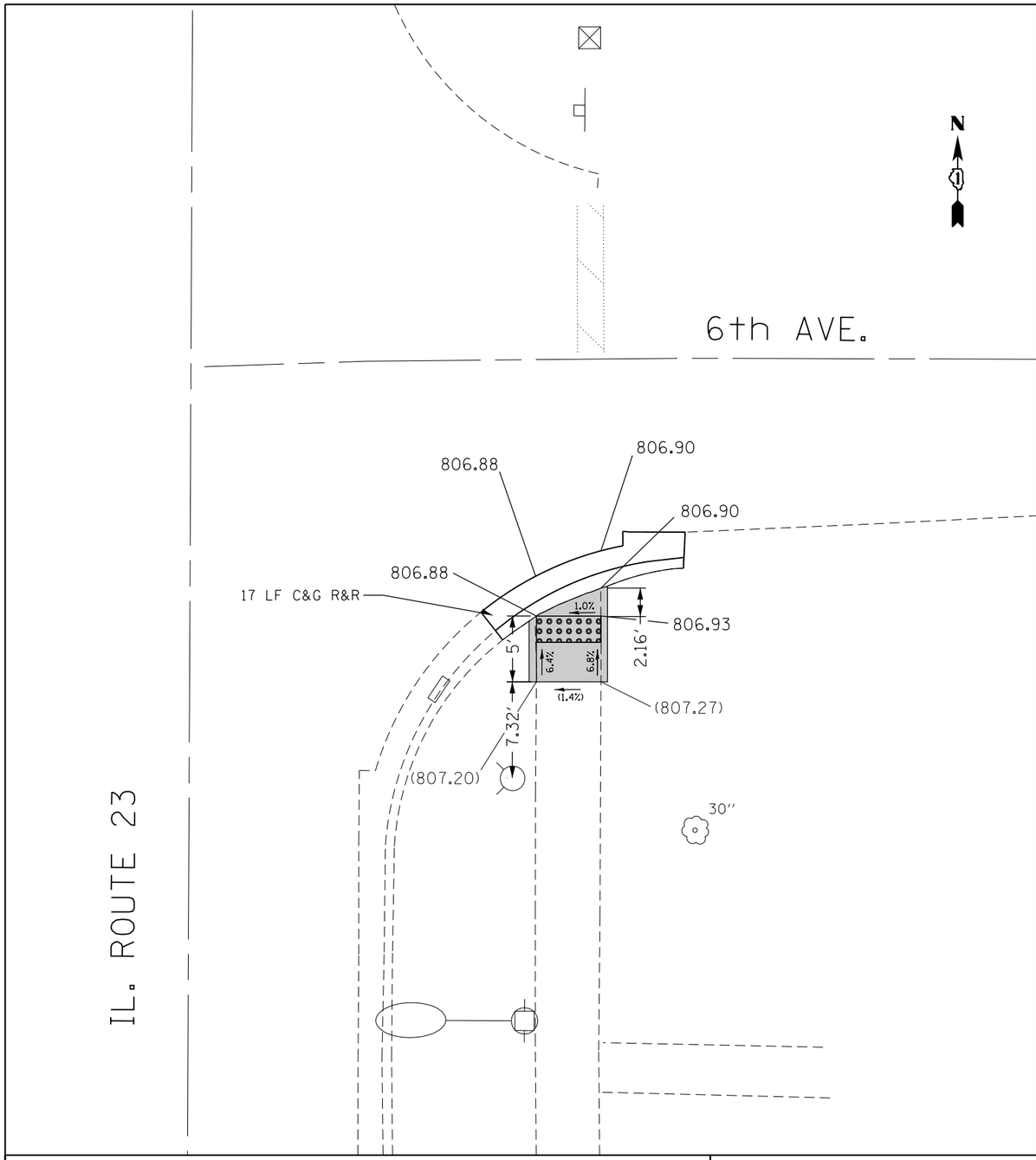
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

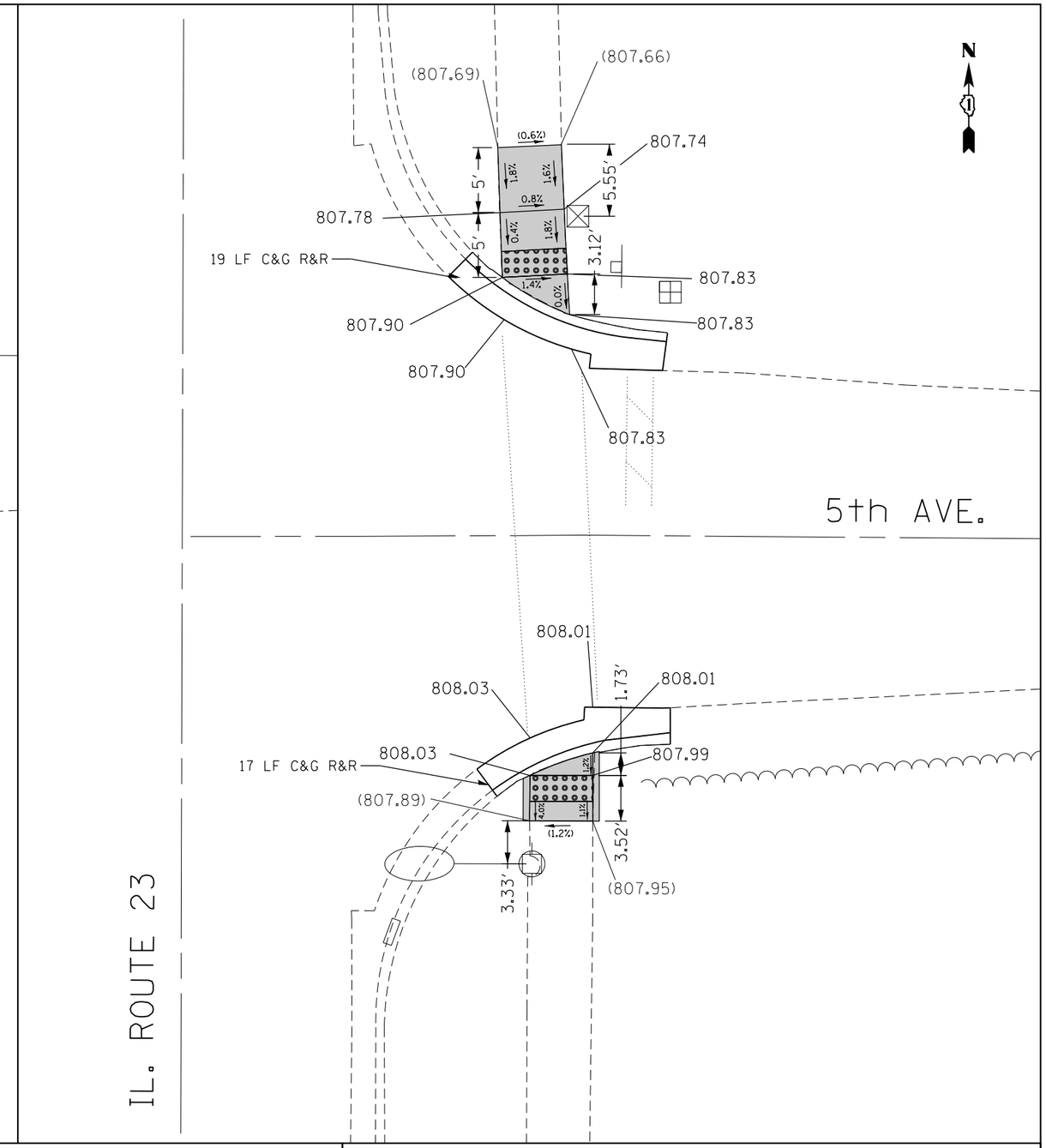
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	52

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





REFERENCE BENCHMARK ELEVATION 807.92

BENCHMARK : TOP OF R.O.W. MARKER.

LOCATION : NORTHEAST CORNER OF IL23 AND 6TH AVE.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 808.88

BENCHMARK : TOP OF R.O.W. MARKER.

LOCATION : NORTHEAST CORNER OF IL23 AND 5TH AVE.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

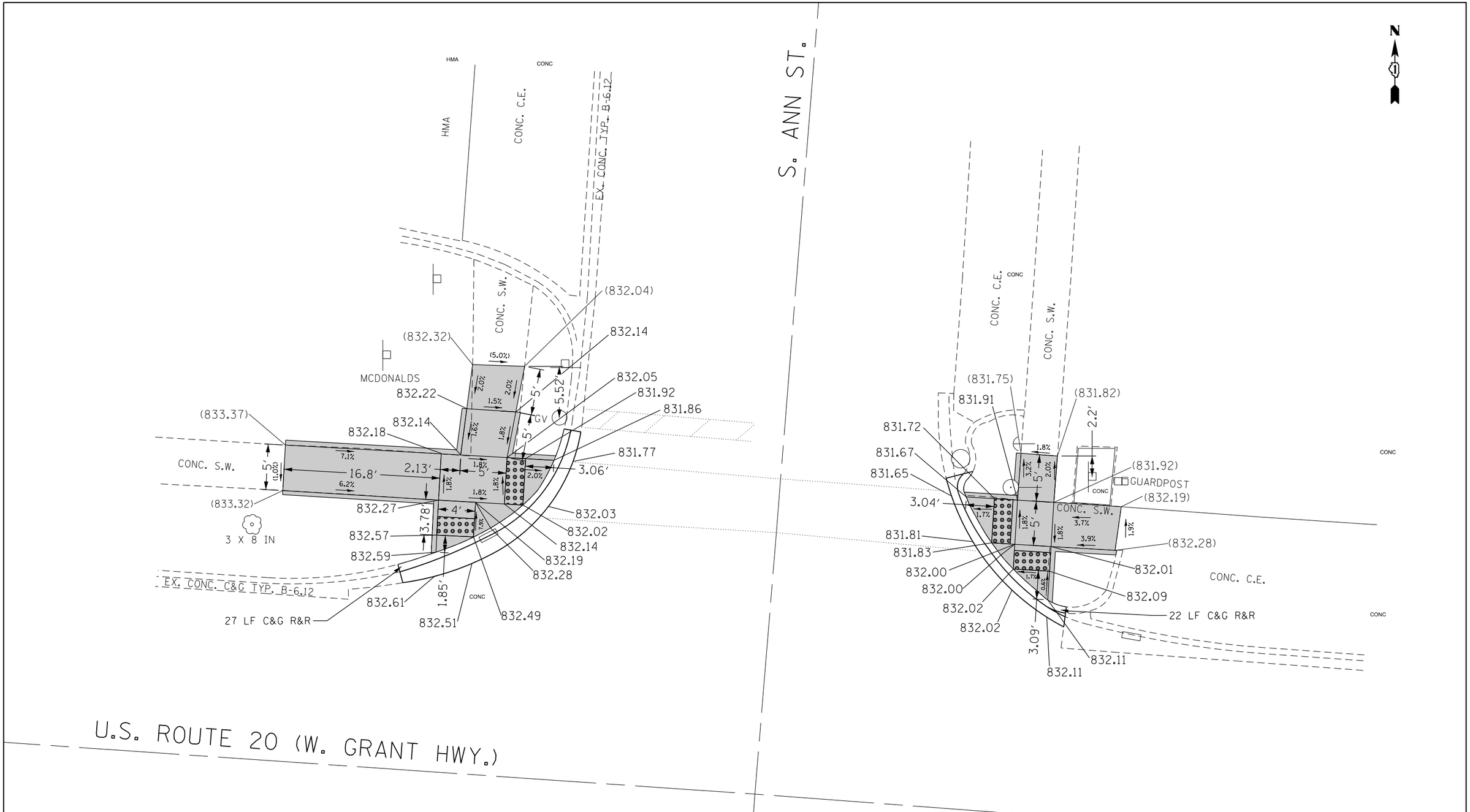
ADA RAMP DETAILS
IL ROUTE 23 (I-90 TO US ROUTE 14)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	53

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 834.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT

LOCATION : SOUTHWEST CORNER OF US RTE. 20 AND ANN ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 834.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT

LOCATION : SOUTHWEST CORNER OF US RTE. 20 AND ANN ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

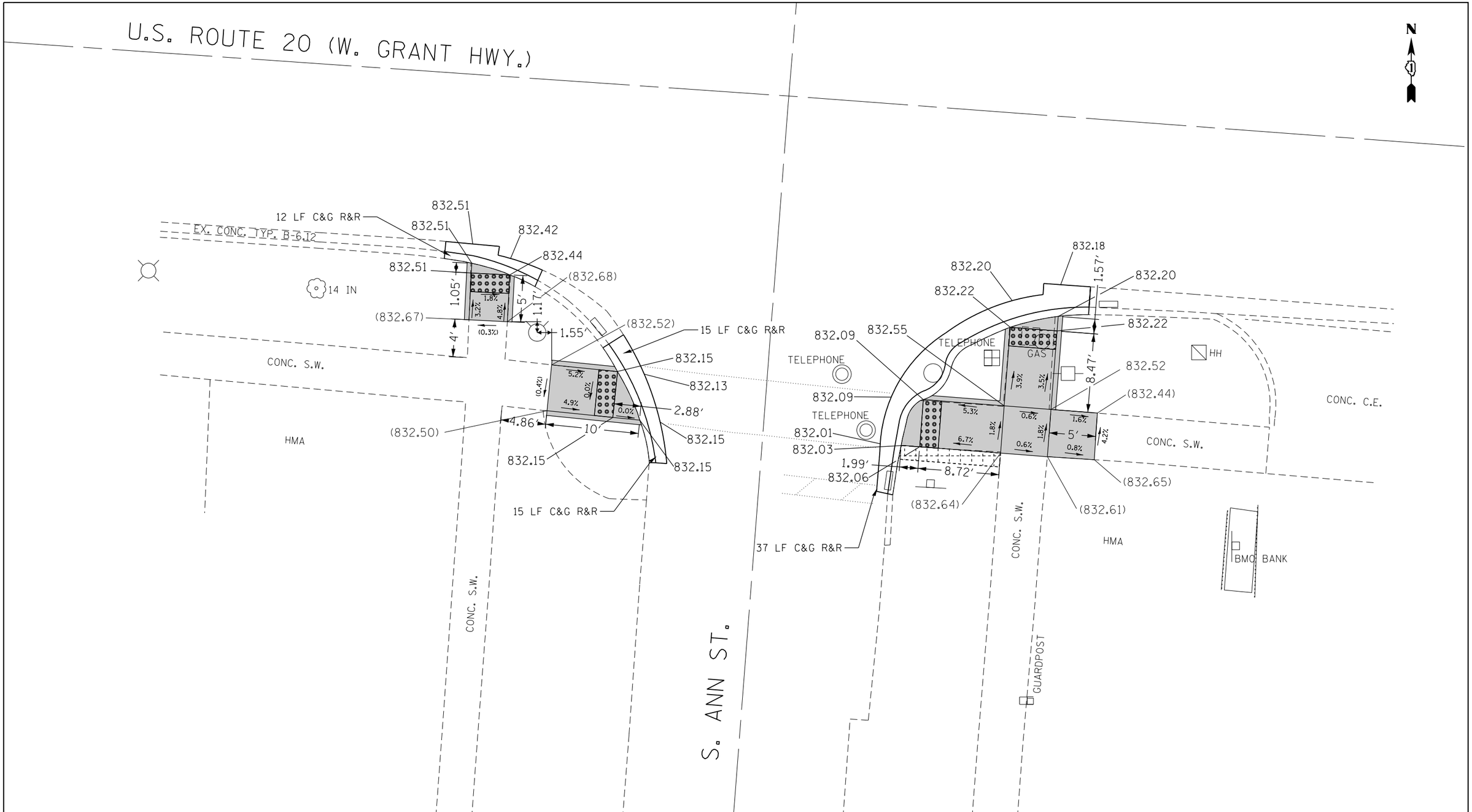
ADA RAMP DETAILS
US ROUTE 20 (ANN ST. TO PAGE ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	54

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 834.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT

LOCATION : SOUTHWEST CORNER OF US RTE. 20 AND ANN ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	CLASS D PATCH

REFERENCE BENCHMARK ELEVATION 834.59

BENCHMARK : BOLT WITH ARROW ON FIRE HYDRANT

LOCATION : SOUTHWEST CORNER OF US RTE. 20 AND ANN ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

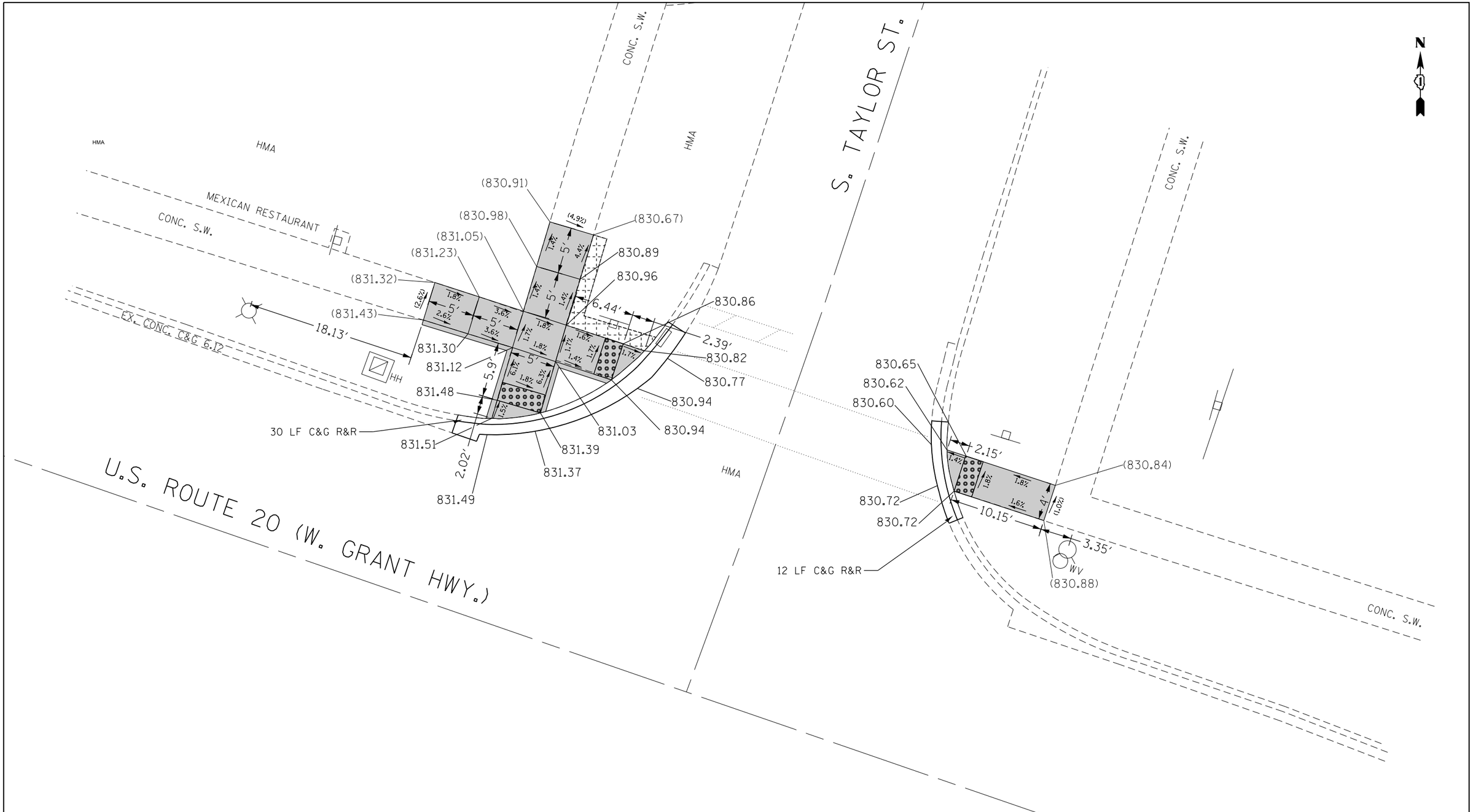
ADA RAMP DETAILS
US ROUTE 20 (ANN ST. TO PAGE ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	55

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 823.23

BENCHMARK : CHISELED SQUARE IN SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NORTHWEST CORNER OF US RTE. 20 AND TAYLOR ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	CLASS D PATCH

REFERENCE BENCHMARK ELEVATION 823.23

BENCHMARK : CHISELED SQUARE IN SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NORTHWEST CORNER OF US RTE. 20 AND TAYLOR ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

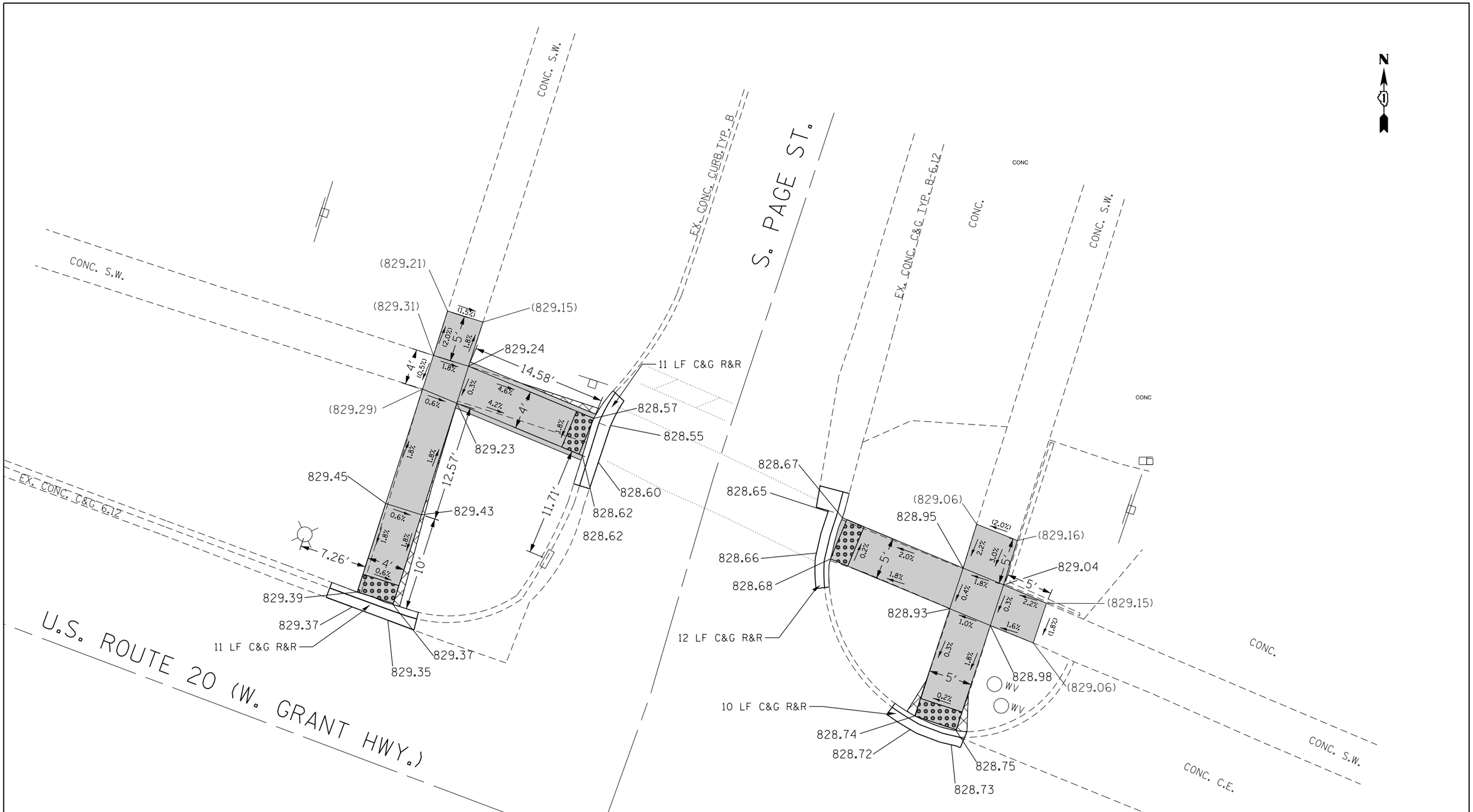
ADA RAMP DETAILS
US ROUTE 20 (ANN ST. TO PAGE ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	56

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 829.90

BENCHMARK : CHISELED SQUARE IN THE SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NOTHWEST CORNER OF US RTE. 20 AND PAGE ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 829.90

BENCHMARK : CHISELED SQUARE IN THE SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NOTHWEST CORNER OF US RTE. 20 AND PAGE ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

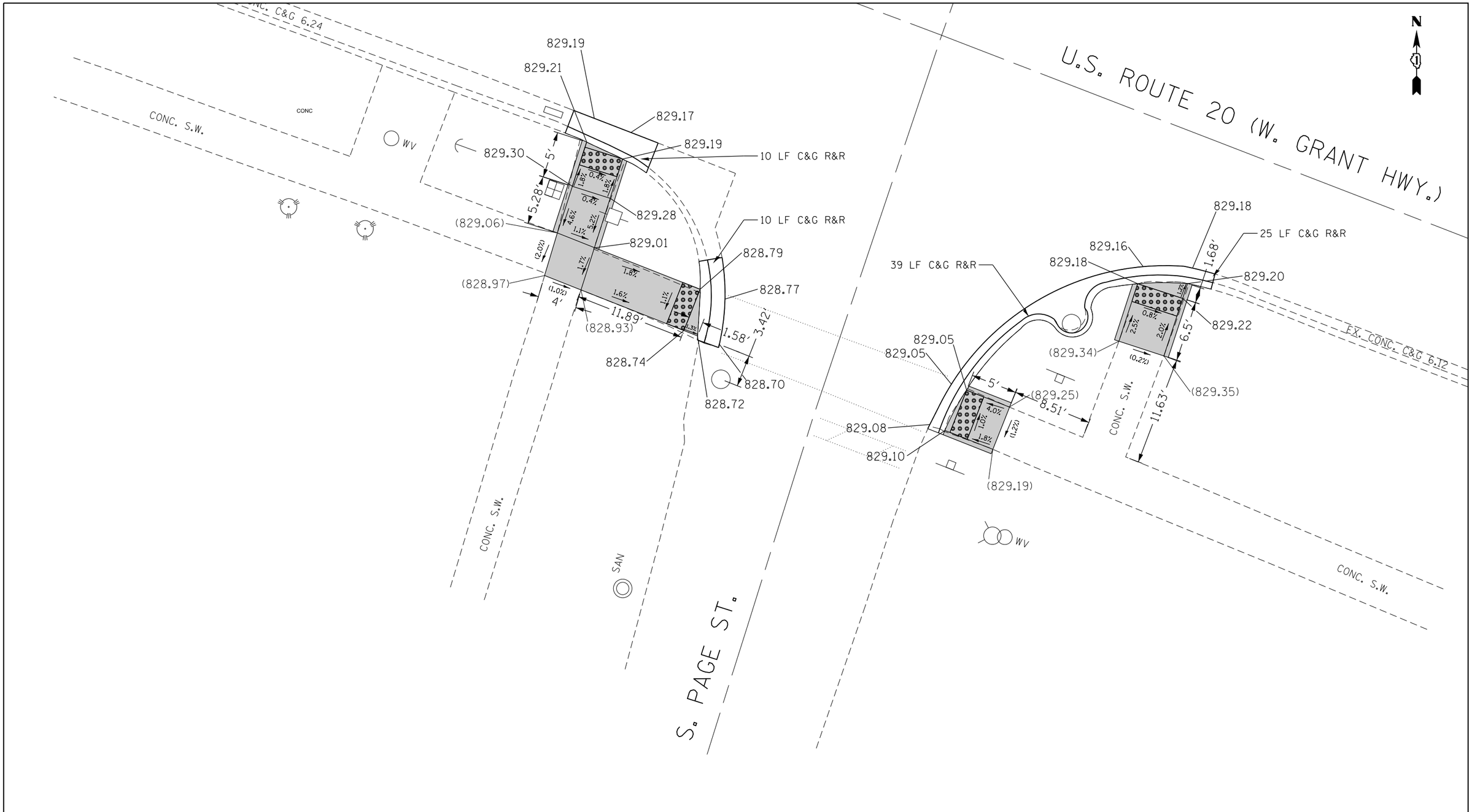
ADA RAMP DETAILS
US ROUTE 20 (ANN ST. TO PAGE ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	57

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT



REFERENCE BENCHMARK ELEVATION 829.90

BENCHMARK : CHISELED SQUARE IN THE SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NOTHWEST CORNER OF US RTE. 20 AND PAGE ST.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

REFERENCE BENCHMARK ELEVATION 829.90

BENCHMARK : CHISELED SQUARE IN THE SOUTH CONCRETE BASE OF LIGHT POLE

LOCATION : NOTHWEST CORNER OF US RTE. 20 AND PAGE ST.

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Default	PLOT DATE = 8/18/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
US ROUTE 20 (ANN ST. TO PAGE ST.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23 & 24)RS-2	MCHENRY	74	58

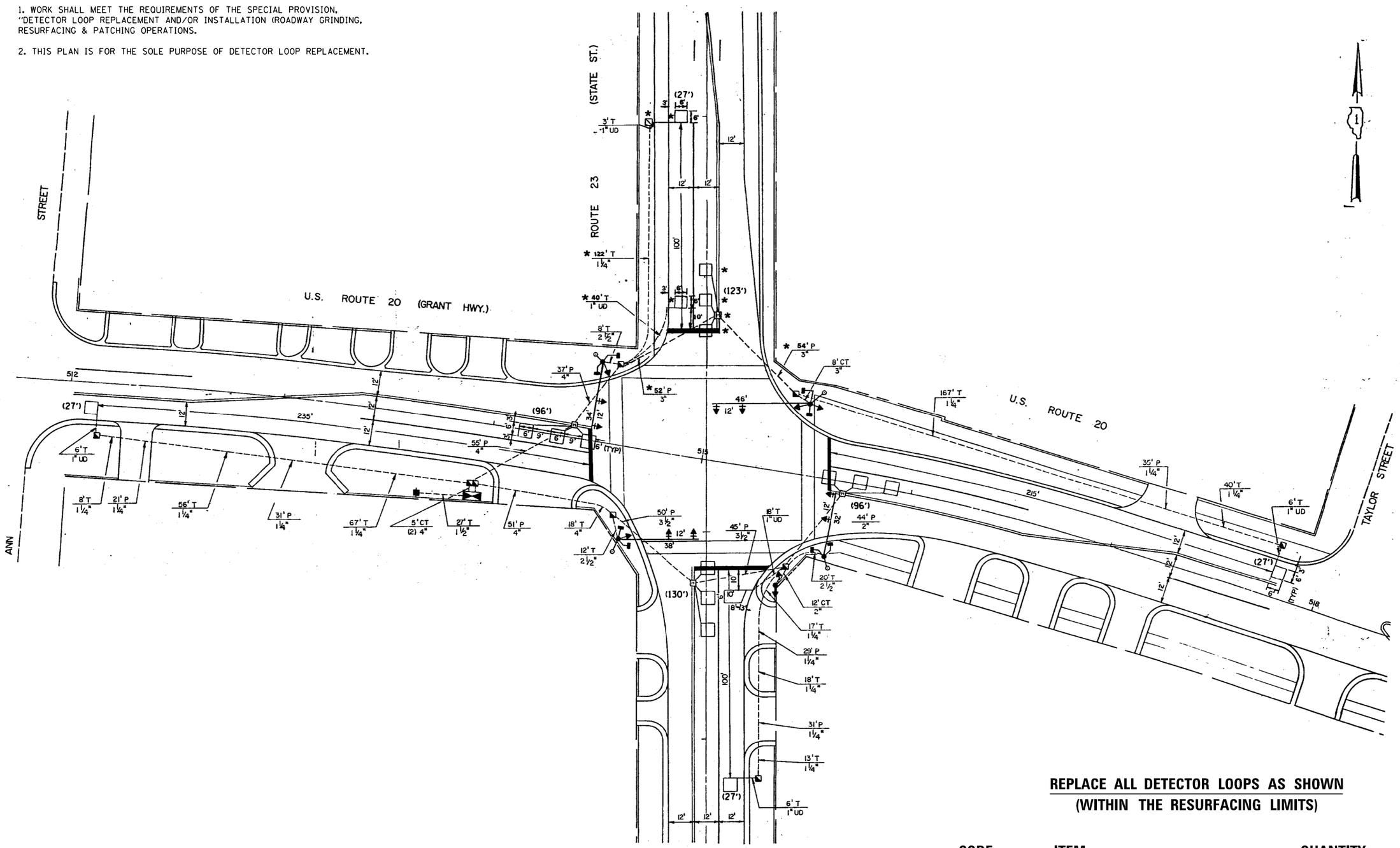
CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	553	FOOT

FILE NAME = S:\WP\Design\SN_B. of Design - Detector Loops Replacement - Resurfacing project - Submittance - ADA_Design\2017\62C84\CADD\TRAFFIC - US 20 (GRANT HWY) @ IL 23 (STATE ST).dgn	USER NAME = nguyensm	DESIGNED - SN	REVISED -
		DRAWN - SN	REVISED -
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Default	PLOT DATE = 8/14/2017	DATE - 06/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
IL ROUTE 23 (STATE ST.) AT US ROUTE 20 (GRANT HWY.)

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
541	(23&24) RS-2	McHENRY	74	59

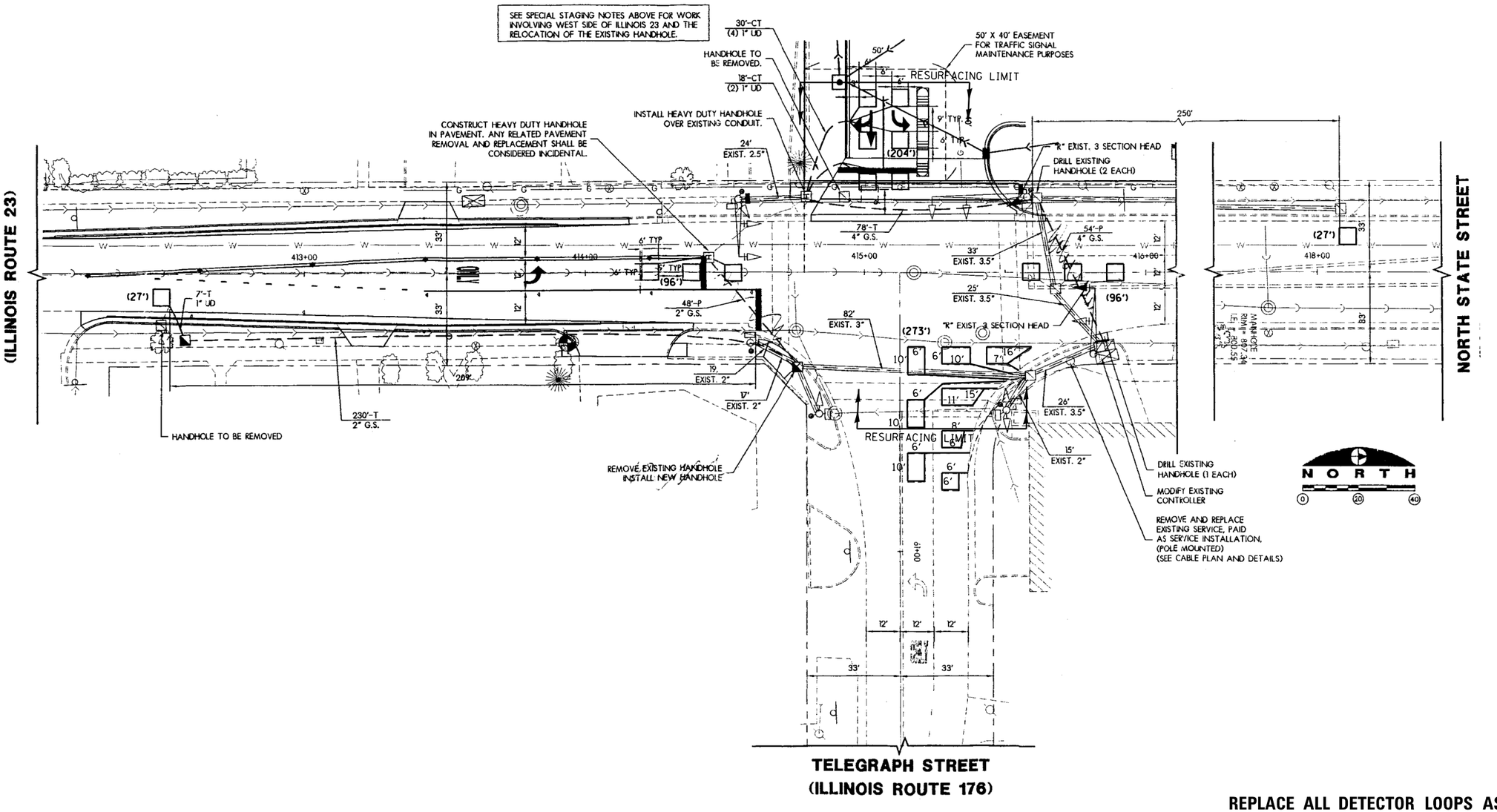
CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	723	FOOT

FILE NAME = S:\WP\Design\SN_B.of Design - Detector Loops Replacement - Resurfacing project - Supplemental - ADA_Design\2017\62C84\CADD\Plans\IL-23 (STATE ST) @ IL 176.dgn	USER NAME = nguyensm	DESIGNED - SN	REVISED -
		DRAWN - SN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - SN	REVISED -
Default	PLOT DATE = 8/14/2017	DATE - 06/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
IL ROUTE 23 (STATE ST.) AT IL ROUTE 176 (TELEGRAPH ST.)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24) RS-2	McHENRY	74	60

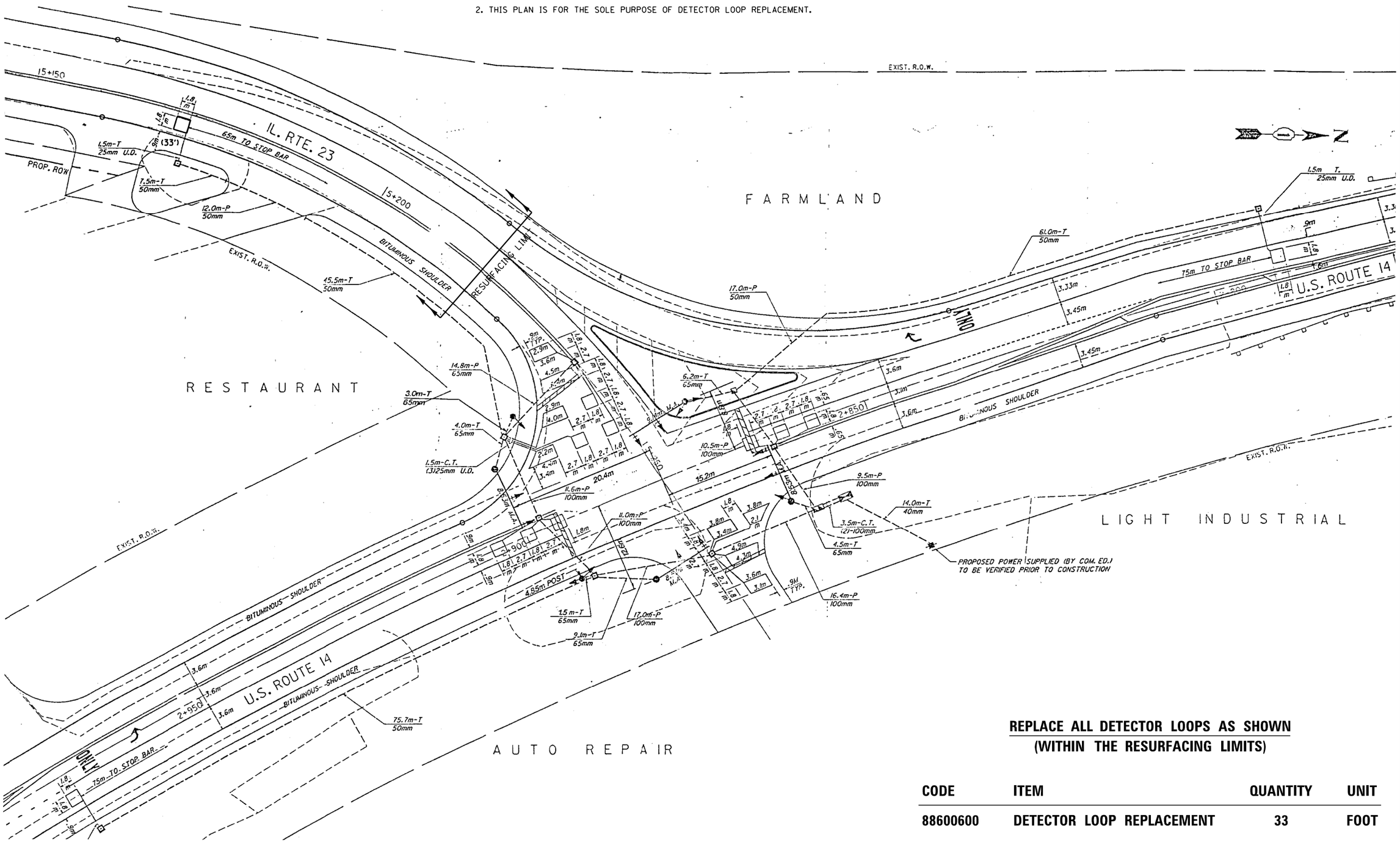
CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT

NOTES:

1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.

2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	33	FOOT

FILE NAME = S:\WP\Design\SN_B. of Design - Detector Loops Replacement - Resurfacing project - Sample - ADA_DGN\2017\62C84\CADD\ - US 14 @ IL 23 (STATE ST) SgnlDslPln.dgn	USER NAME = nguyensm	DESIGNED - SN	REVISED -
		DRAWN - SN	REVISED -
	PLOT SCALE = 40.0000 ' / in.	CHECKED - SN	REVISED -
Default	PLOT DATE = 8/14/2017	DATE - 06/23/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

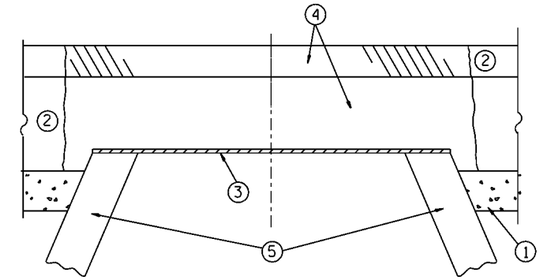
DETECTOR LOOP REPLACEMENT PLAN
US ROUTE 14 AT IL ROUTE 23 (STATE ST.)

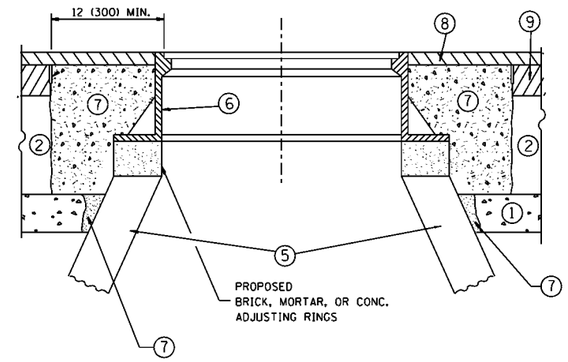
SCALE: | SHEET OF SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24) RS-2	McHENRY	74	61

CONTRACT NO. 62C84

ILLINOIS FED. AID PROJECT





NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

1. SUB-BASE GRANULAR MATERIAL
2. EXISTING PAVEMENT
3. 36 (900) DIAMETER METAL PLATE
4. PROPOSED CRUSHED STONE AND HMA SURFACE MIX
5. EXISTING STRUCTURE
6. FRAME AND LID (SEE NOTES)
7. CLASS PP-1* CONCRETE
8. PROPOSED HMA SURFACE COURSE
9. PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

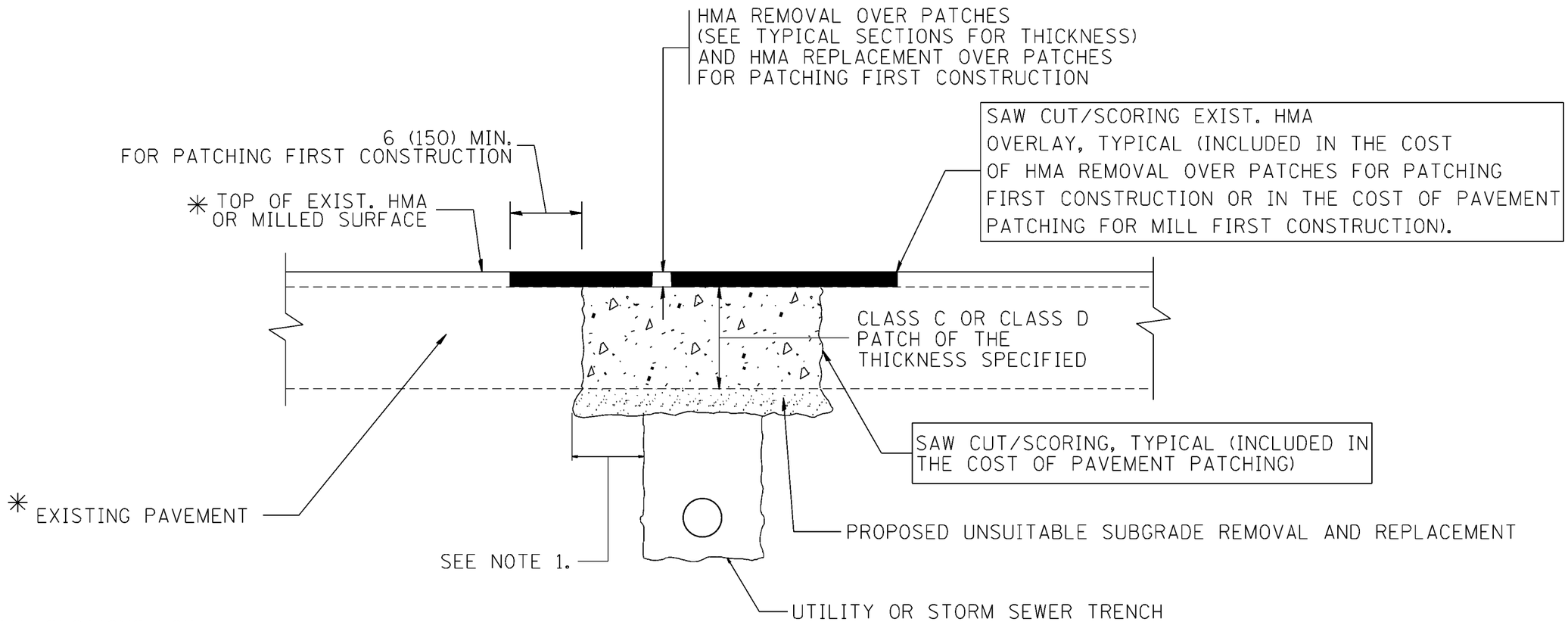
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D13918\Standards\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
			REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 7/7/2017	DATE - 10-25-94	REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(023&24)RS-2	MCHENRY	74	62
BD600-03 (BD-8)		CONTRACT NO. 62C84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



✳ SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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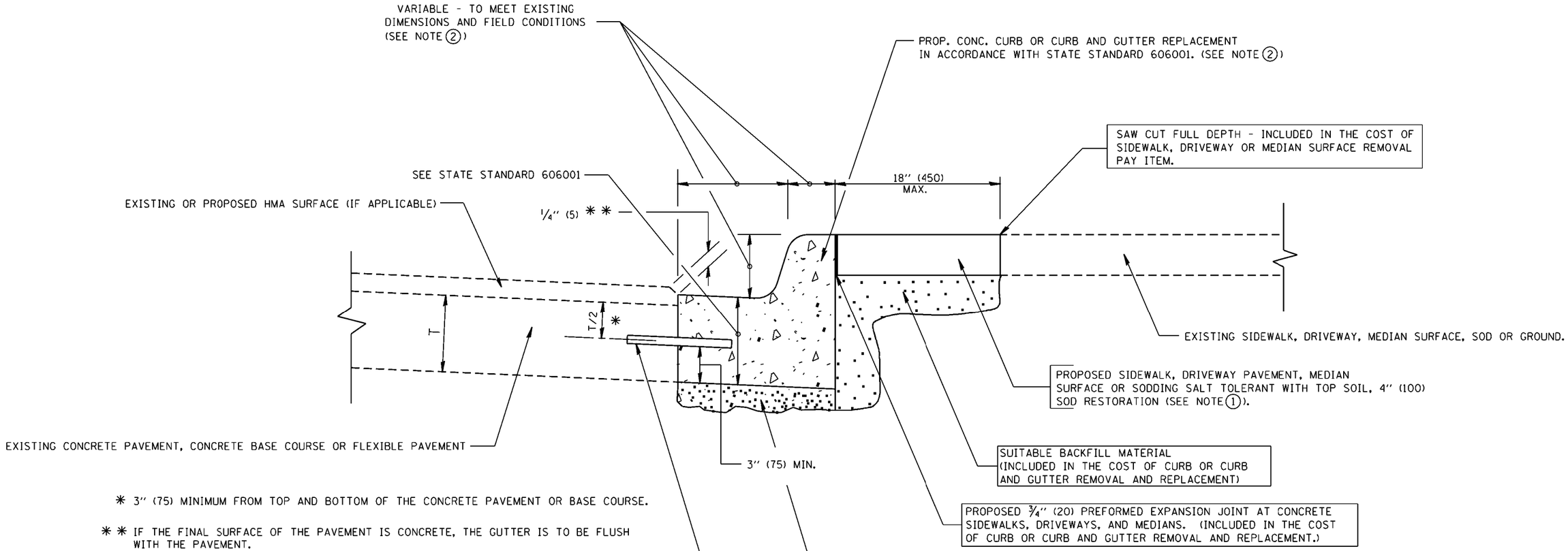
			REVISED - R. BORO 01-01-07			324	(23&24)RS-2	MCHENRY	74	63
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07			BD400-04 (BD-22)		CONTRACT NO. 62C84		
	PLOT DATE = 7/7/2017	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	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.

NOTE: (1) SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY,

(2) FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

(3) CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

(4) FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

(5) LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

(6) THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

(7) THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

(8) THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

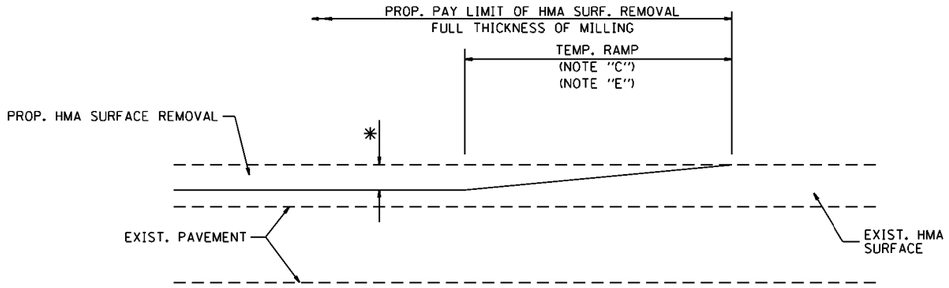
BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

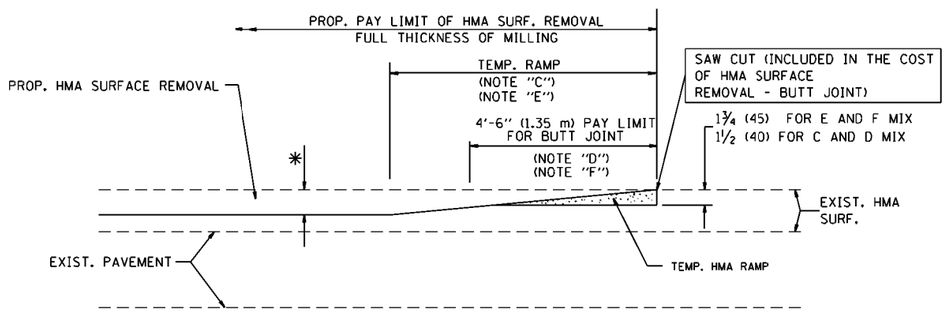
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391100\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			REVISED - A. ABBAS 03-21-97			324	(23&24)RS-2	MCHENRY	74	64
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 01-22-01			BD600-06 (BD-24)		CONTRACT NO. 62C84		
	PLOT DATE = 7/7/2017	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

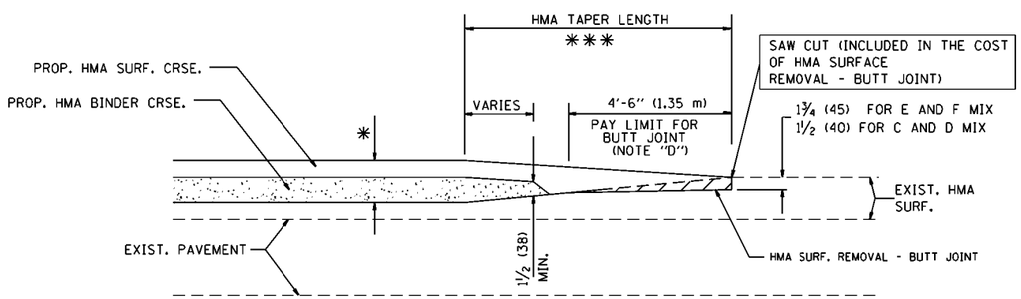


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

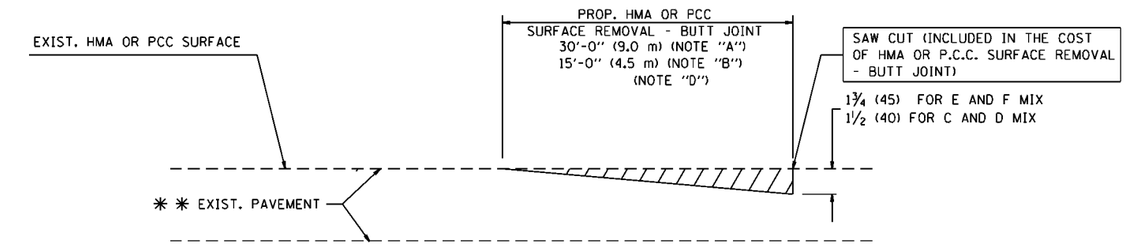
OPTION 2

TYPICAL TEMPORARY RAMP

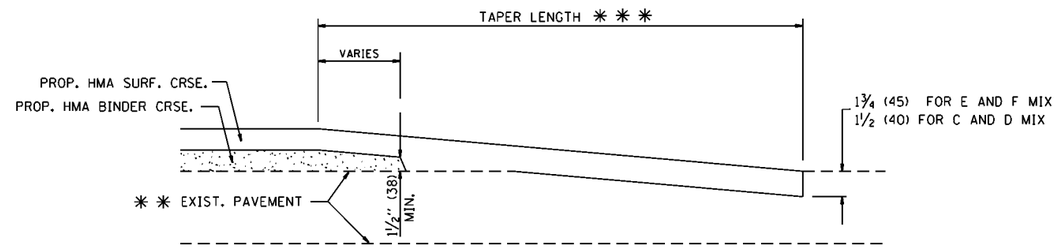


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.

B: MINOR SIDE ROADS.

C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.

D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.

E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.

F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT

G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".

* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.

*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".

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

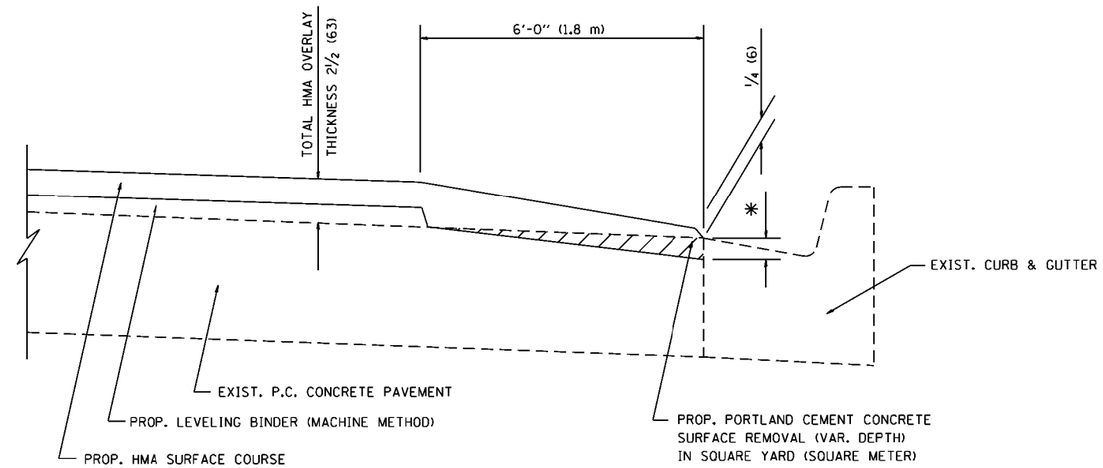
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391[illegible]\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	
			REVISED - A. ABBAS 03-21-97	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01	
	PLOT DATE = 7/7/2017	DATE - 06-13-90	REVISED - R. BORO 01-01-07	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	65
	BD400-05 BD32	CONTRACT NO. 62C84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



HMA TAPER AT EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVELING BINDER	
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
C OR D	1½ (38)	1 (25)	1¼ (33)
E	1¾ (44)	¾ (19)	1½ (38)

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

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		[illegible]	REVISED - E. GOMEZ 12-21-00
	PLOT SCALE = 100.0000 ' / in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07
Default	PLOT DATE = 7/7/2017	DATE - 09-10-94	REVISED - JP CHANG 07-08-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HMA TAPER AT EDGE OF P.C.C. PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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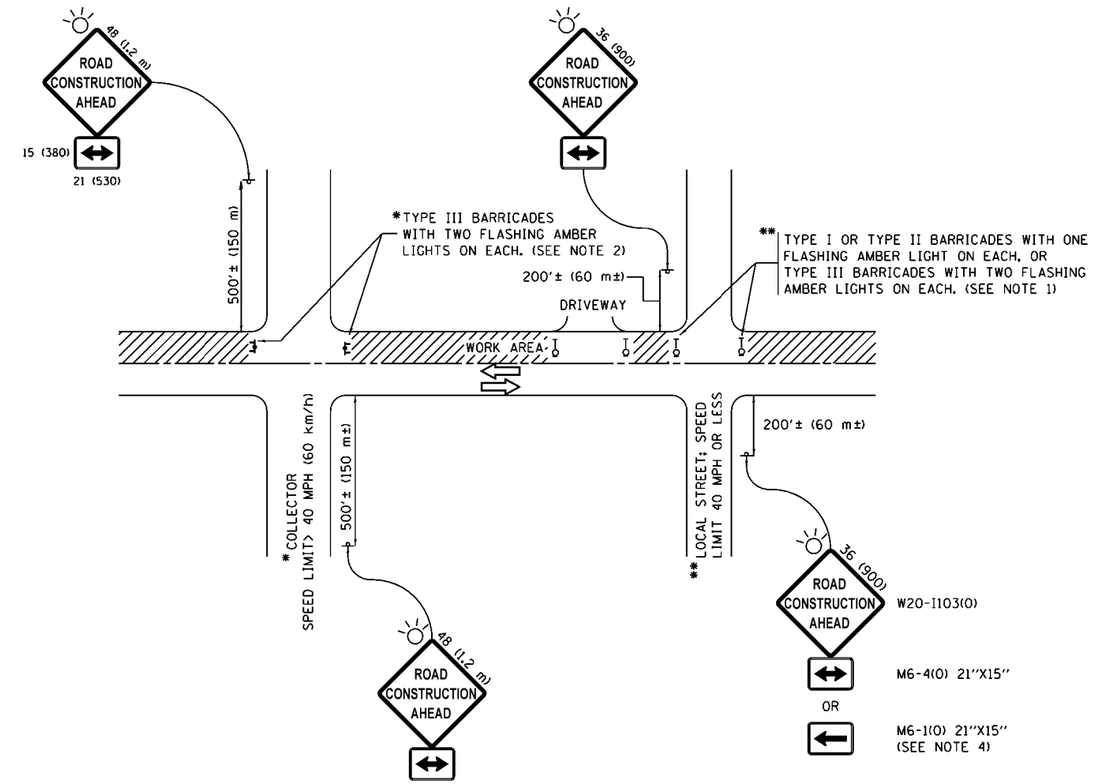
BD400-06	(BD33)	CONTRACT NO. 62C84		
	ILLINOIS FED. AID PROJECT			



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.

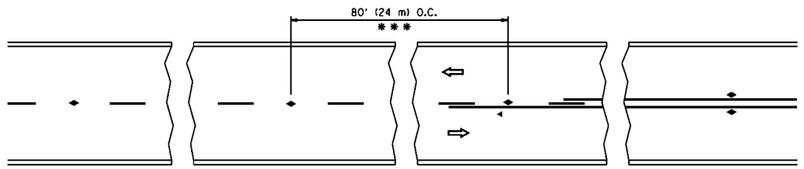
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391[illegible]\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
			REVISED - T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
Default	PLOT DATE = 7/7/2017	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

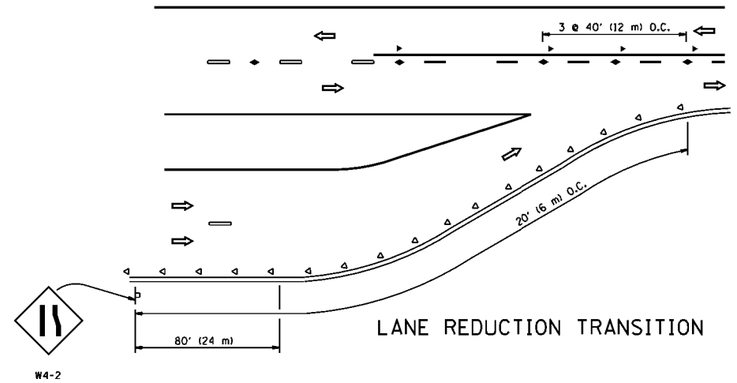
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	67
	TC-10	CONTRACT NO. 62C84		
	ILLINOIS FED. AID PROJECT			

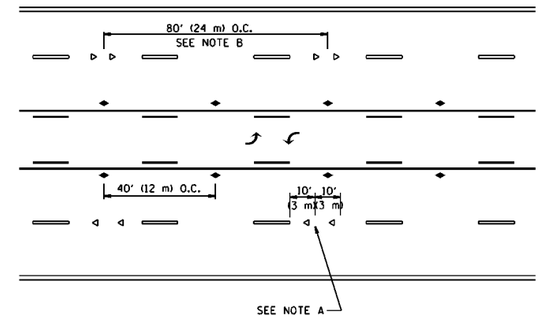


* * * REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

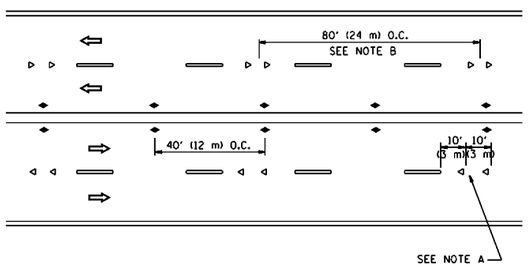
TWO-LANE/TWO-WAY



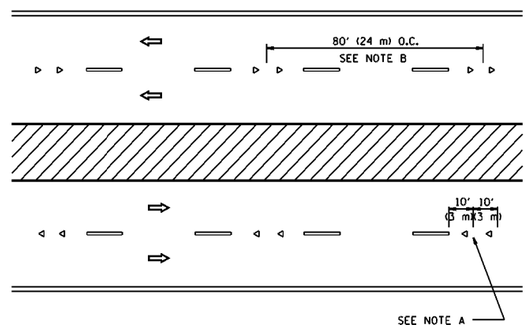
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

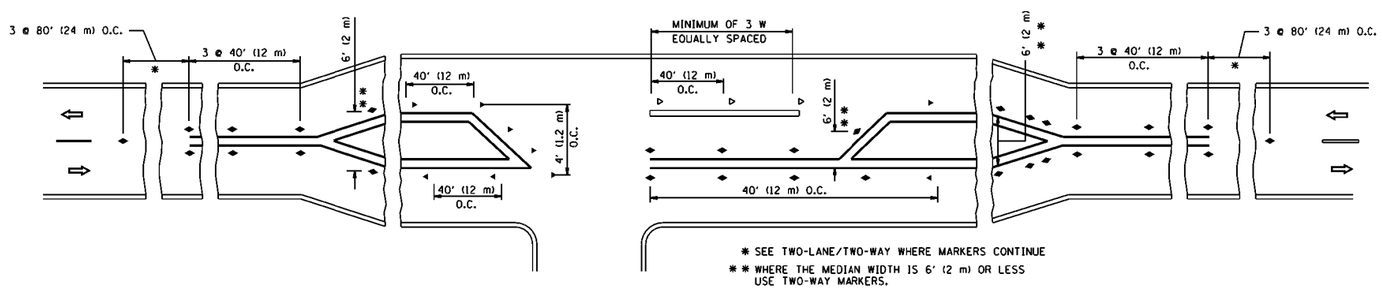
LANE MARKER NOTES

A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

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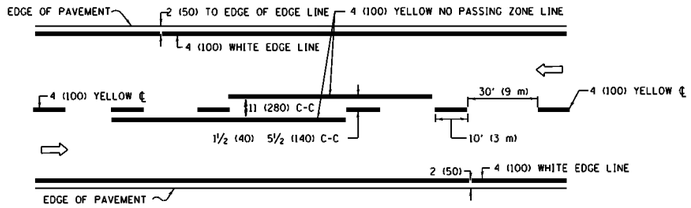
			REVISED - T. RAMMACHER 03-12-99	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00	
	PLOT DATE = 7/7/2017	DATE -	REVISED - C. JUCIUS 09-09-09	

TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

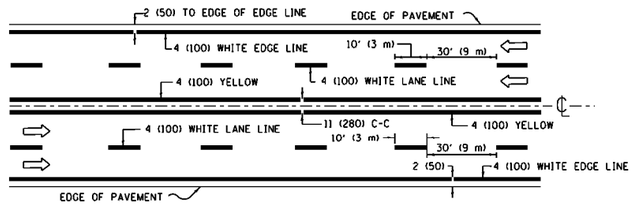
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	68
	TC-11	CONTRACT NO. 62C84		

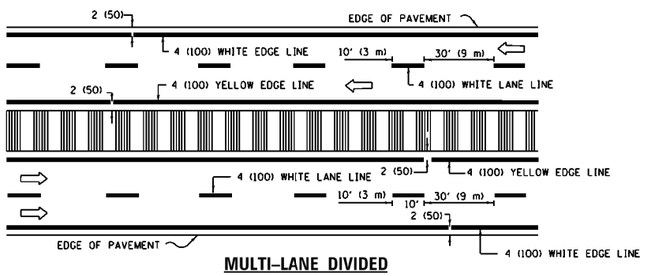
FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT



2-LANE ROADWAY



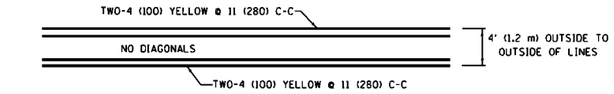
MULTI-LANE UNDIVIDED



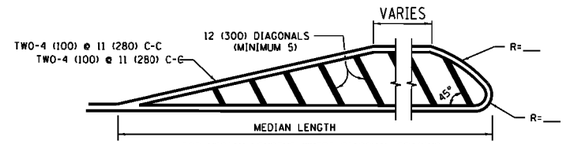
MULTI-LANE DIVIDED

WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



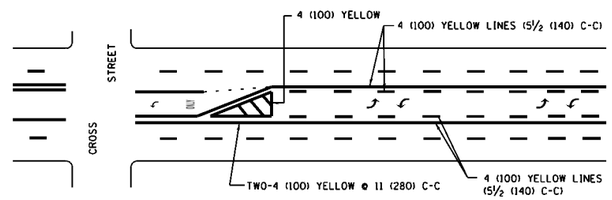
4' (1.2 m) WIDE MEDIANS ONLY



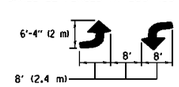
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

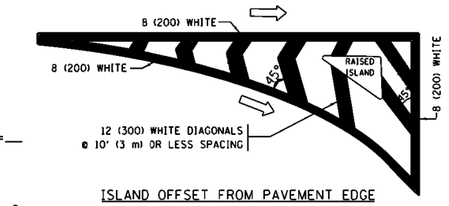


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

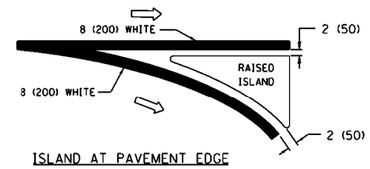


MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

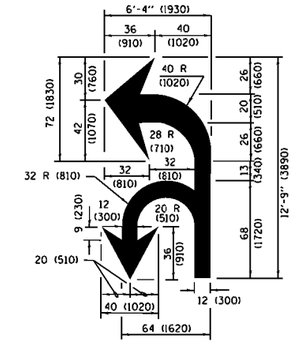


ISLAND OFFSET FROM PAVEMENT EDGE

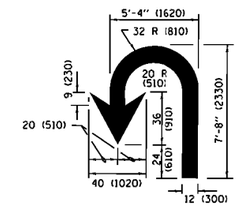


ISLAND AT PAVEMENT EDGE

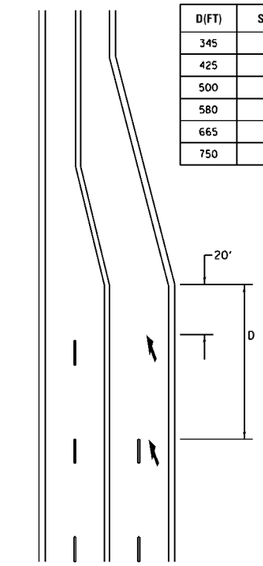
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



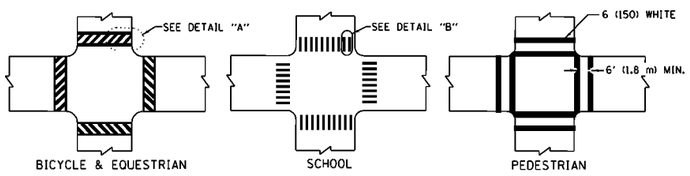
U-TURN

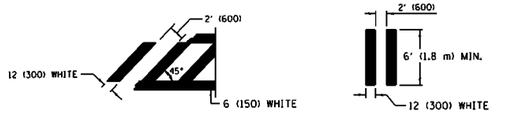


D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

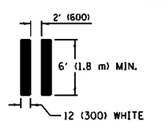
LANE REDUCTION TRANSITION

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





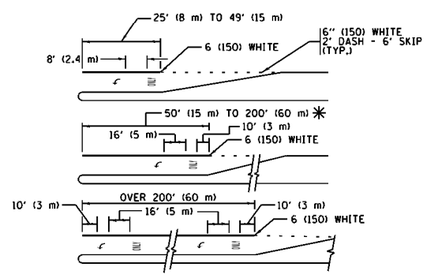
DETAIL "A"



DETAIL "B"

TYPICAL CROSSWALK MARKING

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



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m^2) ONLY AREA = 20.8 SQ. FT. (1.9 m^2)

✳ 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

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 m^2) EACH "X"=54.0 SQ. FT. (5.0 m^2)
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.

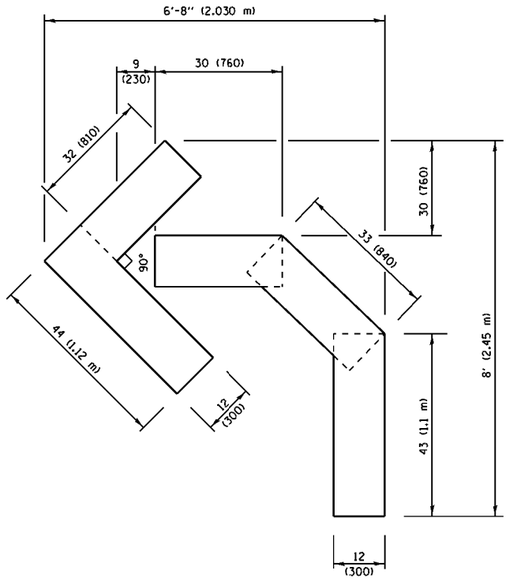
FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391[illegible]\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
			REVISED - C. JUCIUS 07-01-13
	PLOT SCALE = 98.5294 ' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
Default	PLOT DATE = 7/7/2017	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

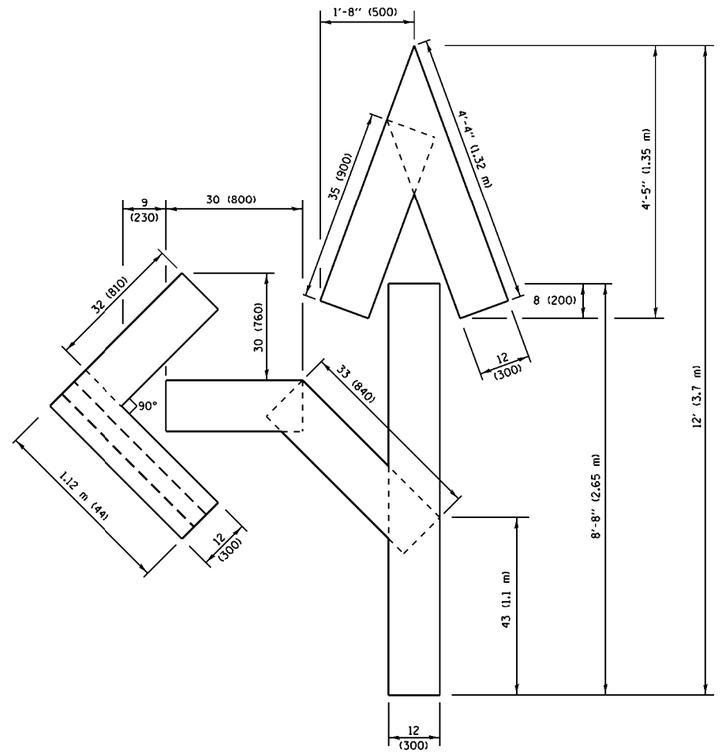
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(23&24)RS-2	MCHENRY	74	69
	TC-13	CONTRACT NO. 62C84		
		ILLINOIS FED. AID PROJECT		



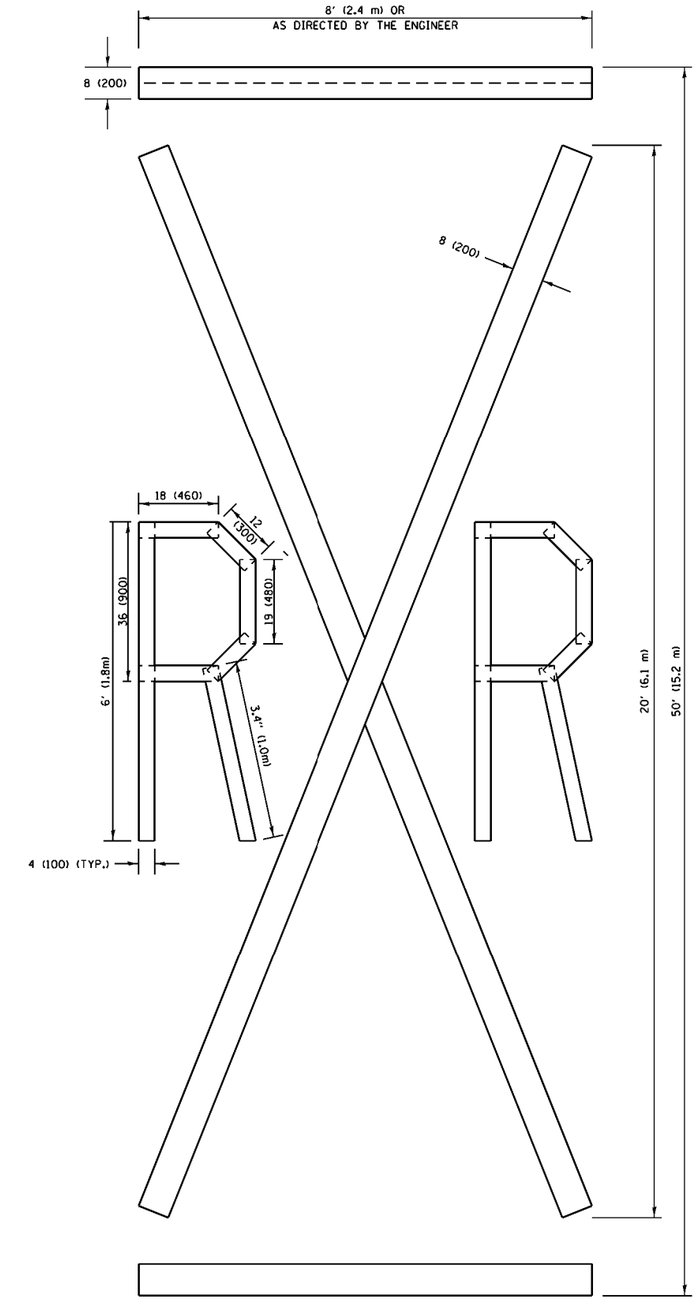
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



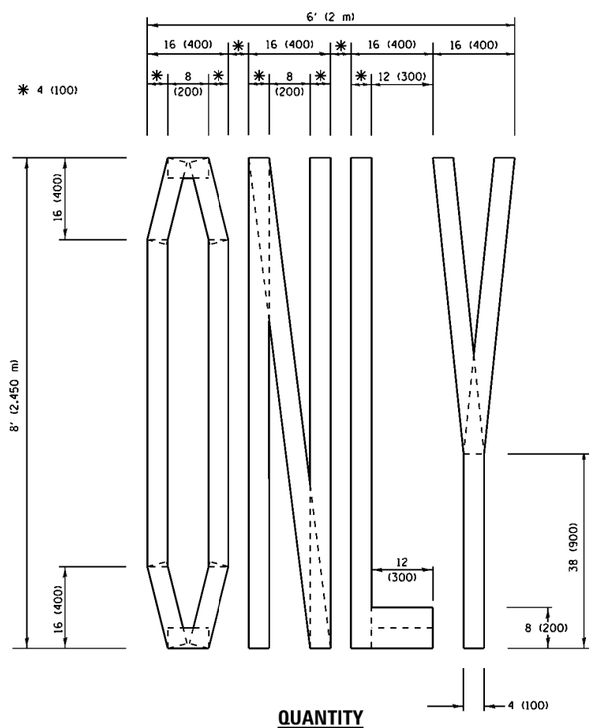
QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)



QUANTITY

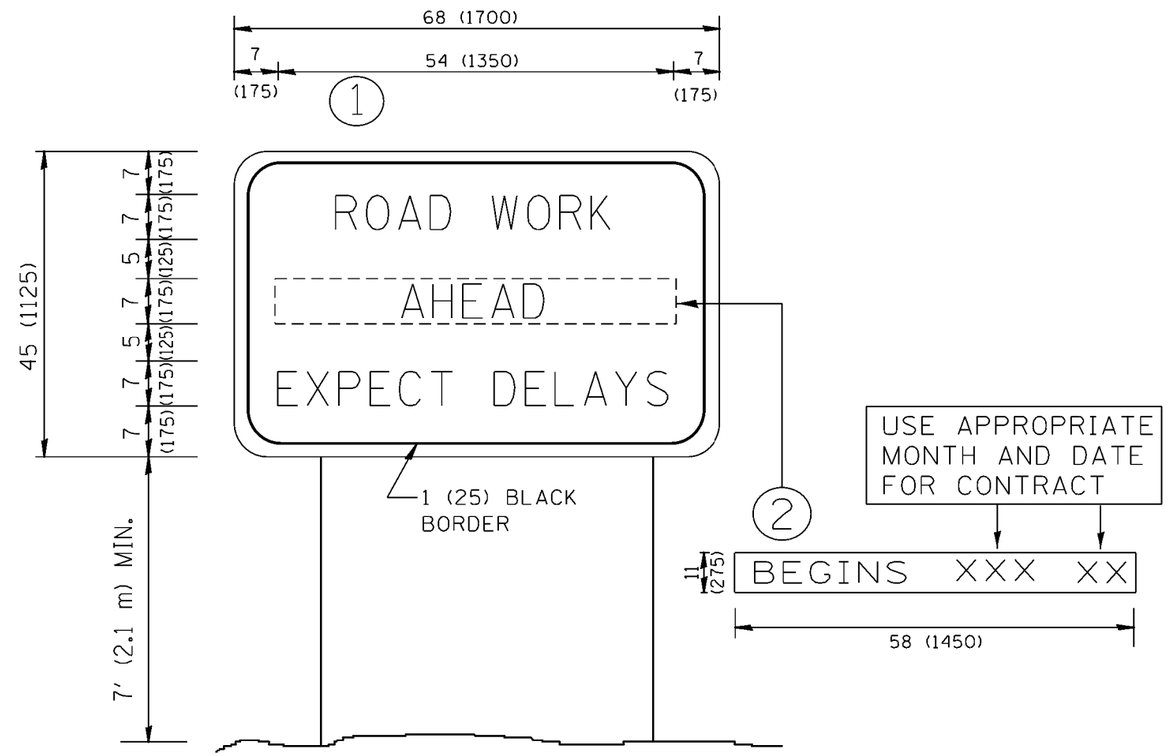
4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391D\Drawings\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - E. GOMEZ 08-28-00			324	(23&24)RS-2	MCHENRY	74	70
	PLOT SCALE = 100.0010 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00			TC-16		CONTRACT NO. 62C84		
	PLOT DATE = 7/7/2017	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16		SCALE: NONE / SHEET NO. 1 OF 1 SHEETS / STA. / TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

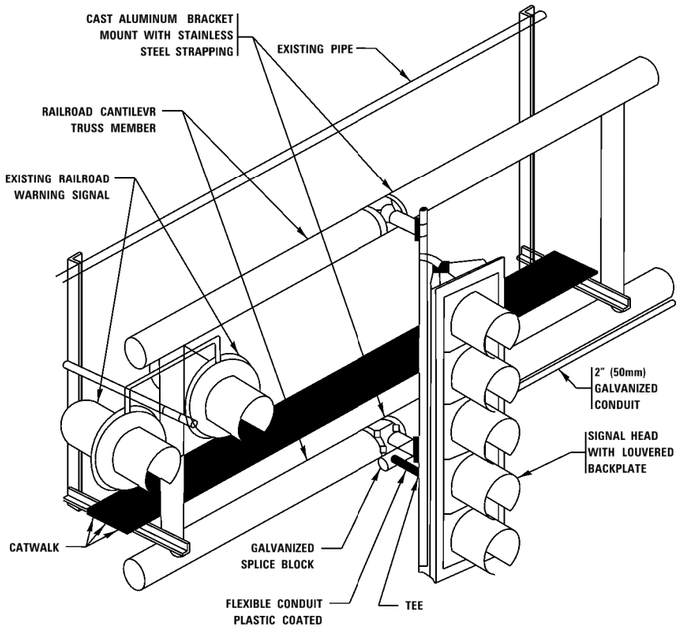


NOTES:

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.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391150\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
		DRAWN -	REVISED - R. MIRS 12-11-97					324	(23&24)RS-2	MCHENRY	74 / 71
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99					TC-22		CONTRACT NO. 62C84	
	PLOT DATE = 7/7/2017	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION

N.T.S.

SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS

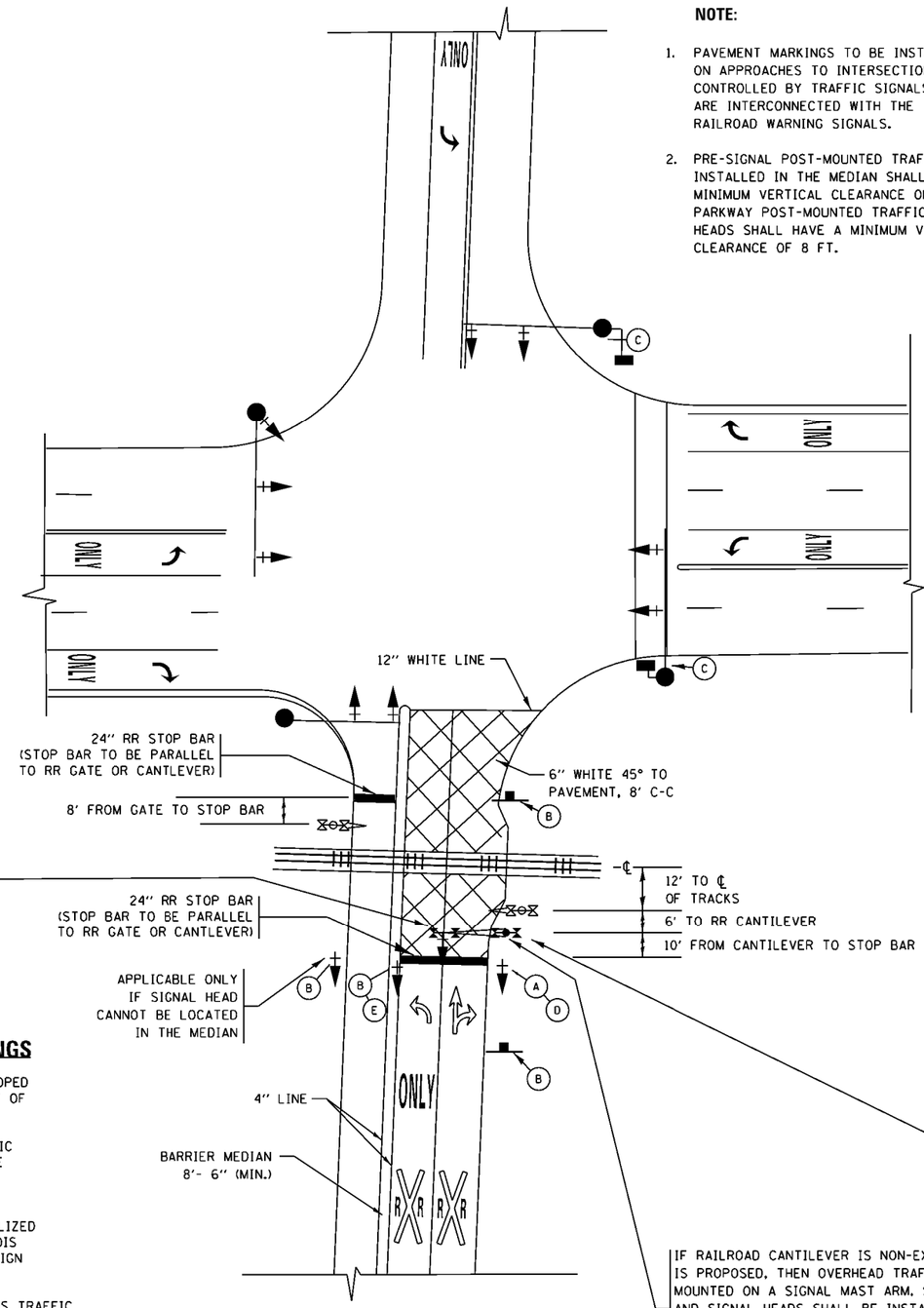
SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.

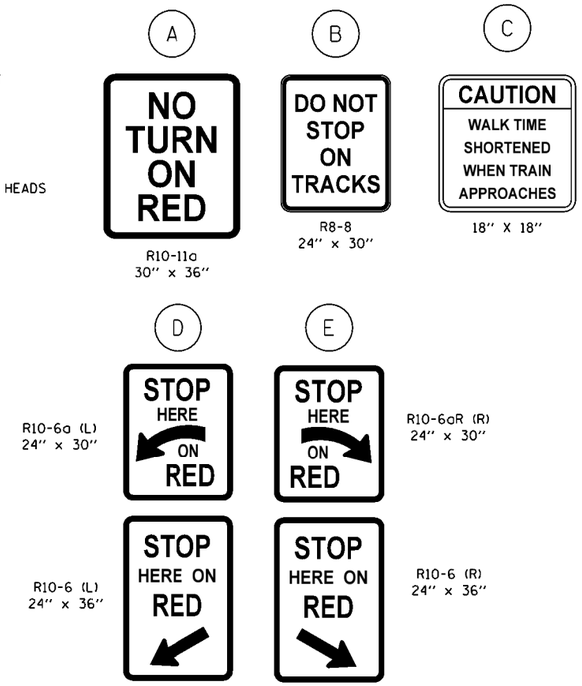
NOTE:

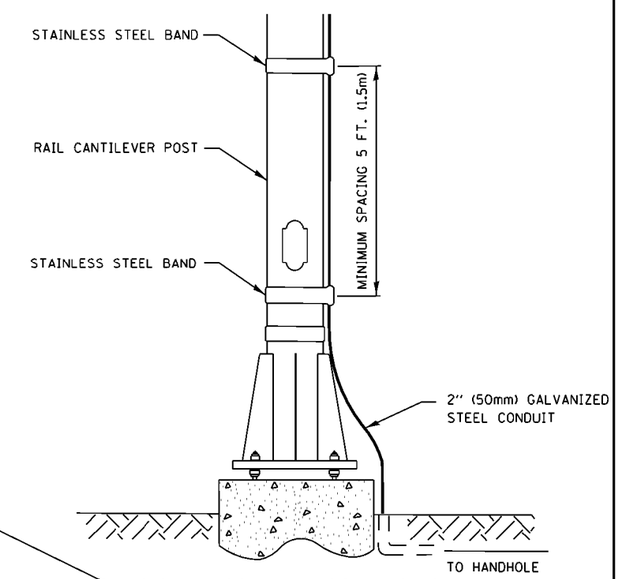
1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.



SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL

IF RAILROAD CANTILEVER IS NON-EXISTANT AND NONE IS PROPOSED, THEN OVERHEAD TRAFFIC SIGNAL TO BE MOUNTED ON A SIGNAL MAST ARM. SIGNAL MAST ARM AND SIGNAL HEADS SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE RAILROAD TRACKS WITHOUT OBSTRUCTING ANY RAILROAD WARNING DEVICES. SIGNAL MAST ARM SHALL BE AT LEAST 12 FT. FROM NEAREST RAIL.





SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL

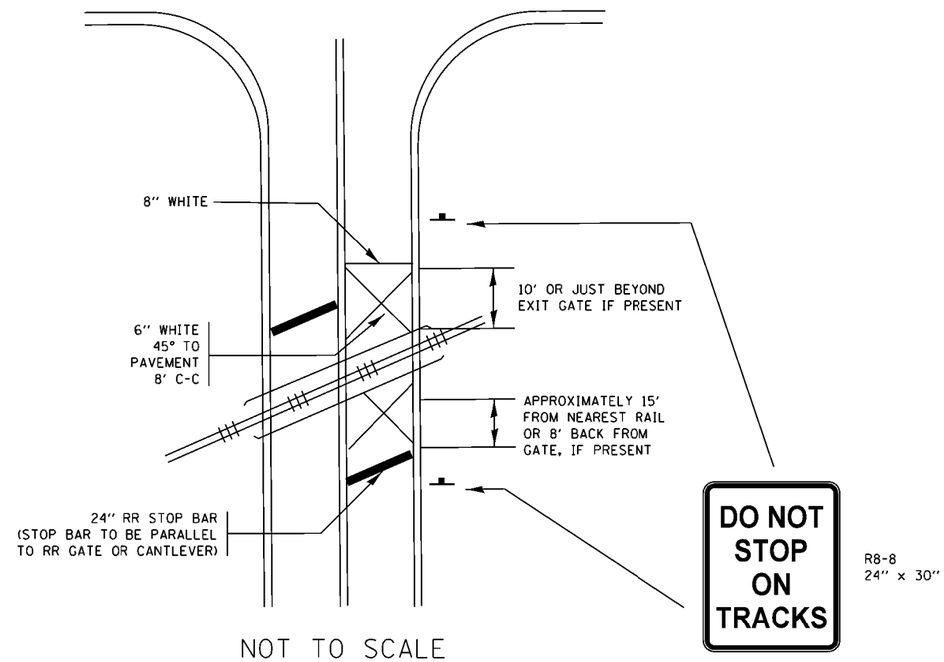
USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

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

FILE NAME =	USER NAME = gorengautab	DESIGNED -	REVISED - 02-25-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391[illegible]\Design\Diststd.dgn			REVISED - 04-26-12			324	(23&24)RS-2	MCHENRY	74	72
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A.R. 07-11-16			TC-23		CONTRACT NO. 62C84		
Default	PLOT DATE = 7/7/2017	DATE -	REVISED -		SCALE: NONE / SHEET 1 OF 2 SHEETS / STA. TO STA.			ILLINOIS FED. AID PROJECT		

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

WITH SIGNALIZED INTERSECTION

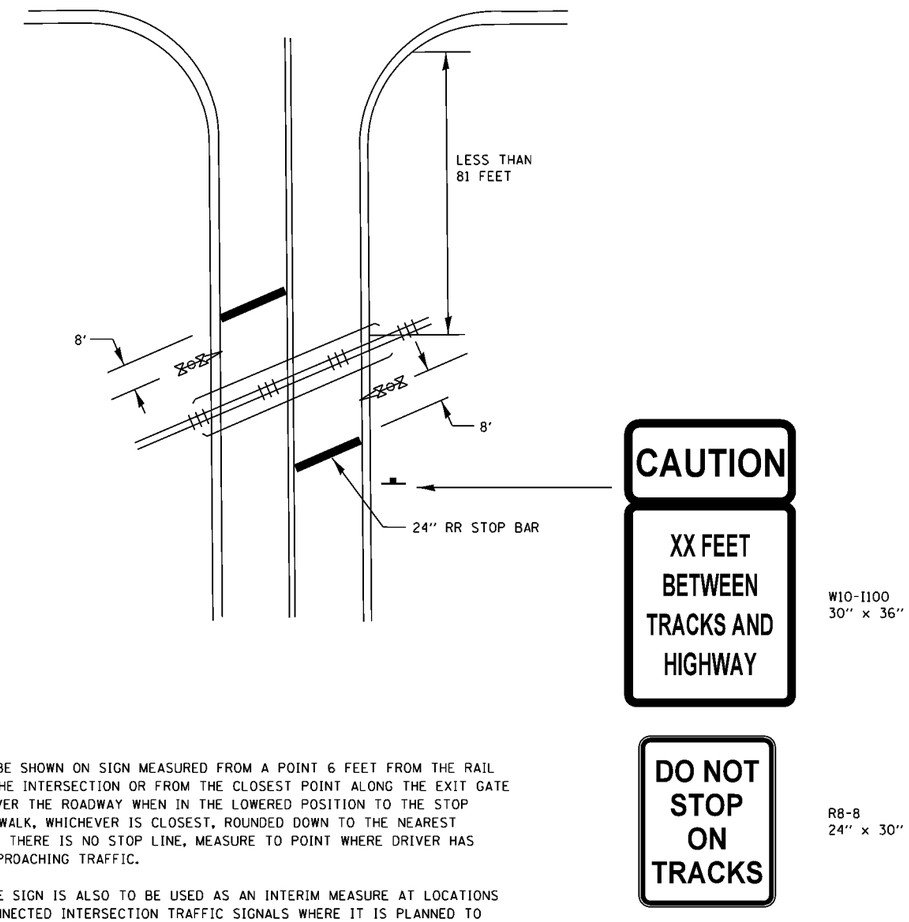


NOT TO SCALE

NOTE:

1. PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
2. WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED THE PAVEMENT MARKINGS EXTEND TO THE INTERSECTION. (SEE DETAIL FOR PRE-SIGNALS).

WITH NON-SIGNALIZED INTERSECTION
81' OR LESS TO CLOSEST RAIL



NOTE:

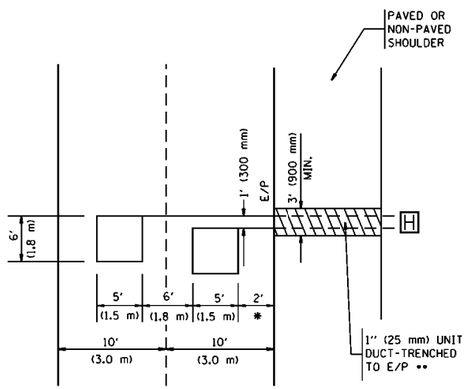
1. DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICHEVER IS CLOSEST, ROUNDED DOWN TO THE NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
2. THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKING EXTEND TO THE INTERSECTION.

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

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D139[illegible]\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED -	REVISED - 02-25-11	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			REVISED - 04-26-12			324	(23&24)RS-2	MCHENRY	74	73
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A.R. 07-11-16			TC-23		CONTRACT NO. 62C84		
Default	PLOT DATE = 7/7/2017	DATE -	REVISED -		SCALE: NONE / SHEET 2 OF 2 SHEETS / STA. TO STA.	ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.



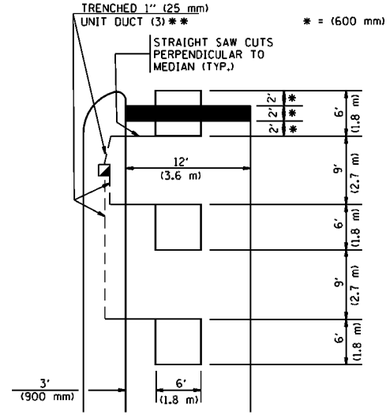
* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.

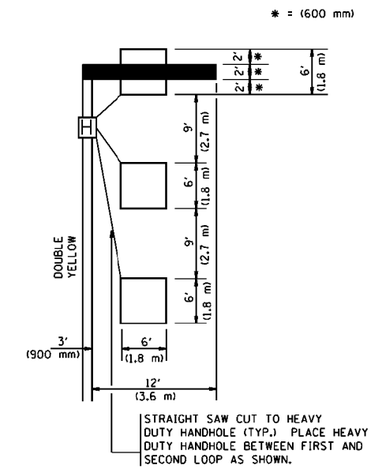


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

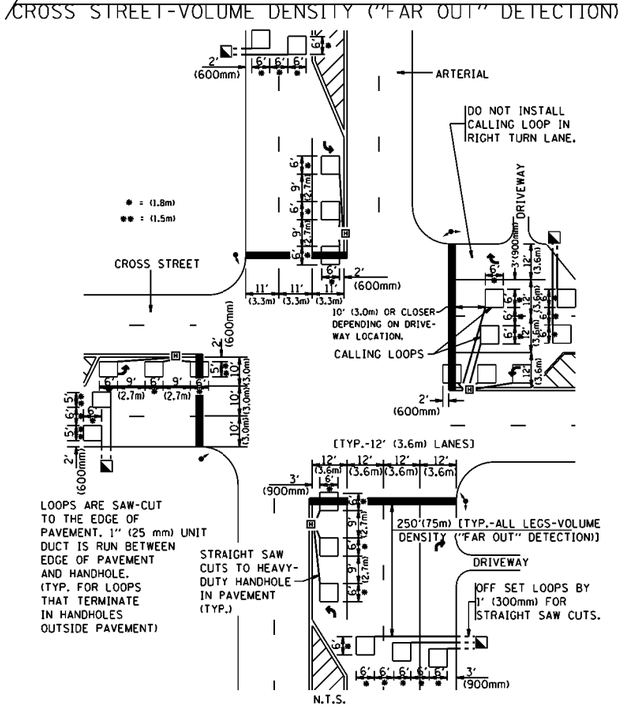
LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



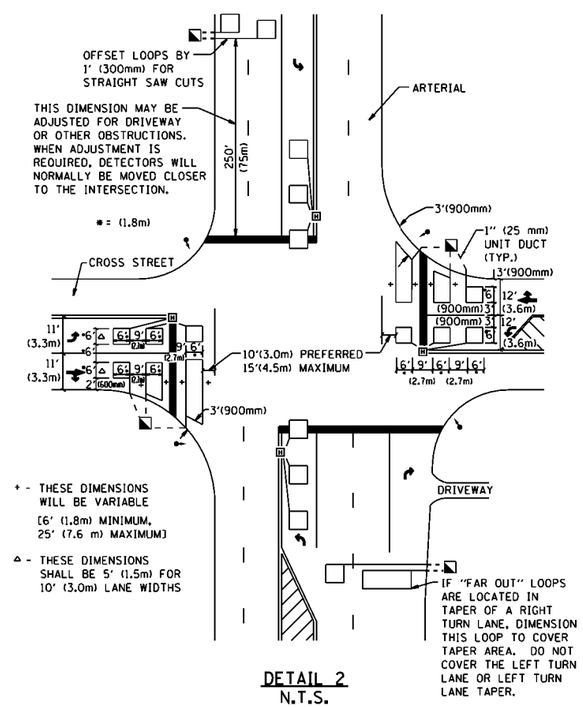
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)



DETAIL 1
N.T.S.

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



DETAIL 2
N.T.S.

NOTES:

VEHICLES LOOP DETECTORS

* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
* ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
* EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
* WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1391[illegible]\Data\Design\Diststd.dgn	USER NAME = gorengautab	DESIGNED -	REVISED -
			REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 7/7/2017	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 – DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
324	(22&23)RS-2	MCHENRY	74	74
	TS-07	CONTRACT NO. 62C84		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		