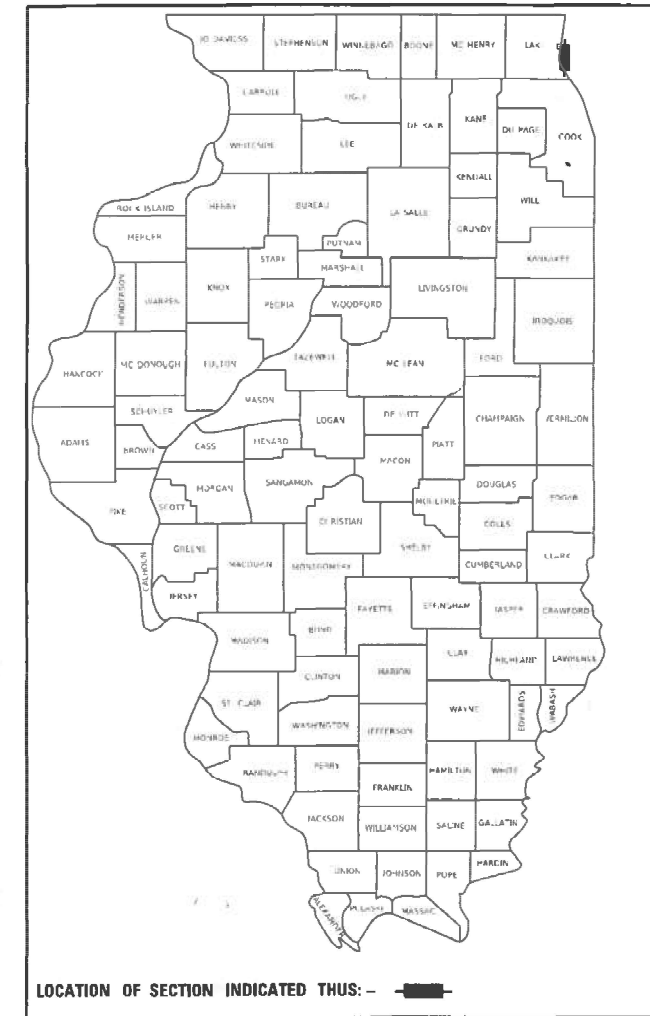


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	1
		ILLINOIS	CONTRACT NO. 62P33	

* 49 + 4 = 53 TOTAL SHEETS

D-91-193-21



FOR INDEX OF SHEETS, SEE SHEET NO. 2

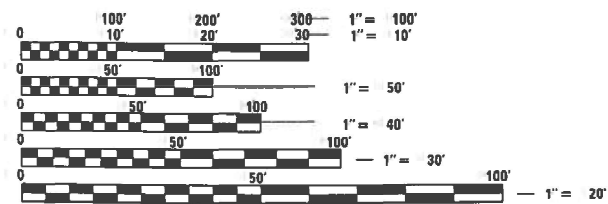
THE PROJECT IS LOCATED WITHIN:
VILLAGE OF LIBERTYVILLE

TRAFFIC DATA

OTHER PRINCIPAL ARTERIAL
2019 ADT - 22,900 VPD
POSTED SPEED LIMIT:
CHURCH ST. (PROJ. BEGIN) TO JOHNSON AVE - 25 MPH
JOHNSON AVE TO WINCHESTER RD. - 30 MPH
WINCHESTER RD. TO SO FINSTAD DR. (PROJ. END) - 35 MPH

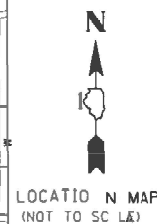
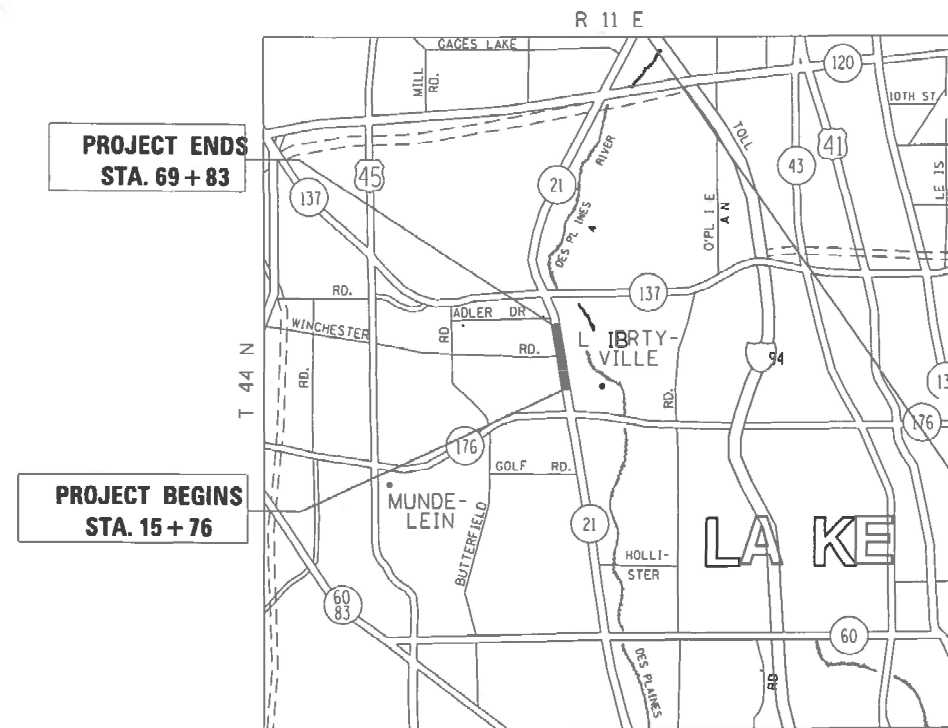
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 330: IL 21 (MILWAUKEE AVENUE)
CHURCH STREET TO SOUTH OF FINSTAD DRIVE
SECTION 2021-108-RS-SW&FL
PROJECT NHPP-RZ5U(668)
DESIGNED OVERLAY & ADA IMPROVEMENTS
LAKE COUNTY

C-91-230-21



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 EXCAVATORS
1-800-892-0123
OR 811



LIBERTYVILLE TOWNSHIP

PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432
PROJECT MANAGER: FAWAD AQUEEL

GROSS LENGTH OF PROJECT = 5407 FT. = 1.02 MILE
NET LENGTH OF PROJECT = 5393 FT. = 1.02 MILE

CONTRACT NO. 62P33

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: March 11, 2022
Jose Bios REGIONAL ENGINEER

May 13, 2022 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2022 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2-3	INDEX OF SHEETS, STANDARDS, AND GENERAL NOTES
4-6	SUMMARY OF QUANTITIES
7-9	TYPICAL SECTIONS
10-11	ROADWAY & PAVEMENT MARKINGS PLANS
12-16	DETECTOR LOOP PLANS
17-39	PEDESTRIAN RAMP DETAILS
40	DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS (PD-01)
41	DETAIL FOR PARKING LANE SIGNING PROJECT
42	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
43	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
44	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
45	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
46	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
47	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
48	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
49	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
50	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
51	ARTERIAL ROAD INFORMATION SIGN (TC-22)
52-53	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS (TC-23)
54	DRIVEWAY ENTRANCE SIGNING (TC-26)
55	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS, TYPE 1
604051-04	FRAME AND GRATES, TYPE 11
604086-05	FRAME AND GRATES, TYPE 23
606001-08	COMBINATION CONCRETE CURB AND GUTTER
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION FOR SPEEDS < 45 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRANSVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR SIDEWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

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 FACILITIES. (48 HOUR NOTIFICATION IS REQUIRED).
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF LIBERTYVILLE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (85 KM/H) OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (85 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, FADI SULTAN AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 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.
- ALL PAVEMENT PATCHING 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.
- 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 CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIME DURING CONSTRUCTION.
- 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.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 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 SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.

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	DRAWN -	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 21 (MILWAUKEE AVE.) [CHURCH ST. TO S/O FINSTAD DR.]
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	2
CONTRACT NO. 62P33				
ILLINOIS		FED. AID PROJECT		

VILLAGE NOTES

- 1) THE VILLAGE OF LIBERTYVILLE ENGINEERING DIVISION (847-918-2105) SHALL BE CONTACTED A MINIMUM OF 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK, AND SHALL BE KEPT APPRISED OF THE PROJECT SCHEDULE THROUGHOUT THE DURATION OF CONSTRUCTION.
- 2) THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL NECESSARY PRECAUTIONS TO ENSURE PROTECTION OF EXISTING BRICK PAVERS. ANY BRICK PAVERS THAT ARE REMOVED AND ARE NOT INTENDED TO BE REPLACED UPON COMPLETION OF THE IMPROVEMENTS SHALL BE RETURNED TO THE VILLAGE OF LIBERTYVILLE.
- 3) ANY CURB AND GUTTER REMOVAL AND REPLACEMENT OR OTHER IMPROVEMENTS THAT MAY IMPACT ACCESS TO THE LIBERTYVILLE FIRE STATION MUST BE COORDINATED WITH THE VILLAGE OF LIBERTYVILLE PRIOR TO WORK.
- 4) TRAFFIC SIGNAL IMPACTS DUE TO EXISTING DETECTOR LOOP IMPACTS SHOULD BE COORDINATED WITH THE VILLAGE WITH SPECIAL ATTENTION TO THE SIGNALIZATION AT THE LIBERTYVILLE FIRE STATION ENTRANCE AS TO NOT IMPACT EMERGENCY RESPONSE ACTIVITY.
- 5) ALL EXISTING BRICK PAVER CROSSWALKS ARE TO REMAIN AND SHALL BE PROTECTED AS NECESSARY TO AVOID DAMAGE DURING CONSTRUCTION.
- 6) VILLAGE-OWNED IRRIGATION LINES ARE COMMONLY LOCATED IN CLOSE PROXIMITY OR BENEATH CURB LINES AND ROADWAYS ALONG MILWAUKEE AVE. BETWEEN CHURCH ST. AND JOHNSON AVE. ANY IRRIGATION LINES DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR USING PVC GLUE FITTINGS AND WATERPROOF UNDERGROUND WIRE CONNECTIONS AFTER THE PIPE INTERIOR AND EXTERIOR AND WIRING ARE CLEANED AND PREPPED PER MANUFACTURER'S RECOMMENDATIONS.
- 7) THERE ARE DECORATIVE FENCING AND PLANTING AREAS LOCATED WITHIN THE BRICK PAVERS THROUGHOUT THE DOWNTOWN AREA THAT WILL NEED TO BE MAINTAINED AND PROTECTED DURING CONSTRUCTION.

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						CONTRACT NO. 62P33				
						SCALE:	SHEET 2	OF 2	SHEETS	STA. TO STA.
						ILLINOIS		FED. AID PROJECT		

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
20200100	EARTH EXCAVATION	CU YD	60	60				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	140	140				
25200110	SODDING, SALT TOLERANT	SO YD	140	140				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	23438	23438				
40600370	LONGITUDINAL JOINT SEALANT	FOOT	23553	23553				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	53	53				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	199	199				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	483	483				
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	3733	3733				
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	7	7				
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	3403	3403				
42001300	PROTECTIVE COAT	SO YD	675	675				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3556	3556				
42400800	DETECTABLE WARNINGS	SO FT	699	699				
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	1397	1397				
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SO YD	33325	33325				
44000600	SIDEWALK REMOVAL	SO FT	2720	2720				
44002221	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 5 1/4"	SO YD	1671	1671				
44201725	CLASS D PATCHES, TYPE I, 7 INCH	SO YD	50	50				
44201729	CLASS D PATCHES, TYPE II, 7 INCH	SO YD	641	641				
44201733	CLASS D PATCHES, TYPE III, 7 INCH	SO YD	268	268				
44201735	CLASS D PATCHES, TYPE IV, 7 INCH	SO YD	560	560				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2				
60404800	FRAMES AND GRATES, TYPE 11	EACH	2	2				
60404940	FRAMES AND GRATES, TYPE 23	EACH	2	2				

* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	15	15				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	60	60				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	15	15				
67100100	MOBILIZATION	L SUM	1	1				
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1				
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1				
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
72400500	RELOCATE SIGN PANEL - TYPE A	EACH	1	1				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9842	9842				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	3281	3281				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	518	518				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	17920	17920				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	2846	2846				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1824	1824				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	543	543				
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	7636	7636				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	640	640				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	17920	17920				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2846	2846				
								* SPECIALTY ITEM

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1824	1824				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	543	543				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	570	570				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	545	545				
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	4	4				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1234	1234				
* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	24	24				
* 89502376	REBUILD EXISTING HANDHOLE	EACH	4	4				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	2300	2300				
X0327890	DRIVEWAY REMOVAL AND REPLACEMENT	SO YD	25	25				
X4060995	TEMPORARY RAMP, SPECIAL	SO YD	367	367				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		ROADWAY 80% FED/ 20% STATE 0005	100% STATE 0005			
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	300	300				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1000	1000				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	65	65				
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	1439	1439				
Z0018400	DRAINAGE STRUCTURES TO BE ADJUSTED	EACH	48	48				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	110	110				
Z0018600	DRAINAGE STRUCTURES TO BE RECONSTRUCTED	EACH	5	5				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	345.9	345.9				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				
Z0076600	TRAINEES	HOURS	500	500				
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

* SPECIALTY ITEM 0042

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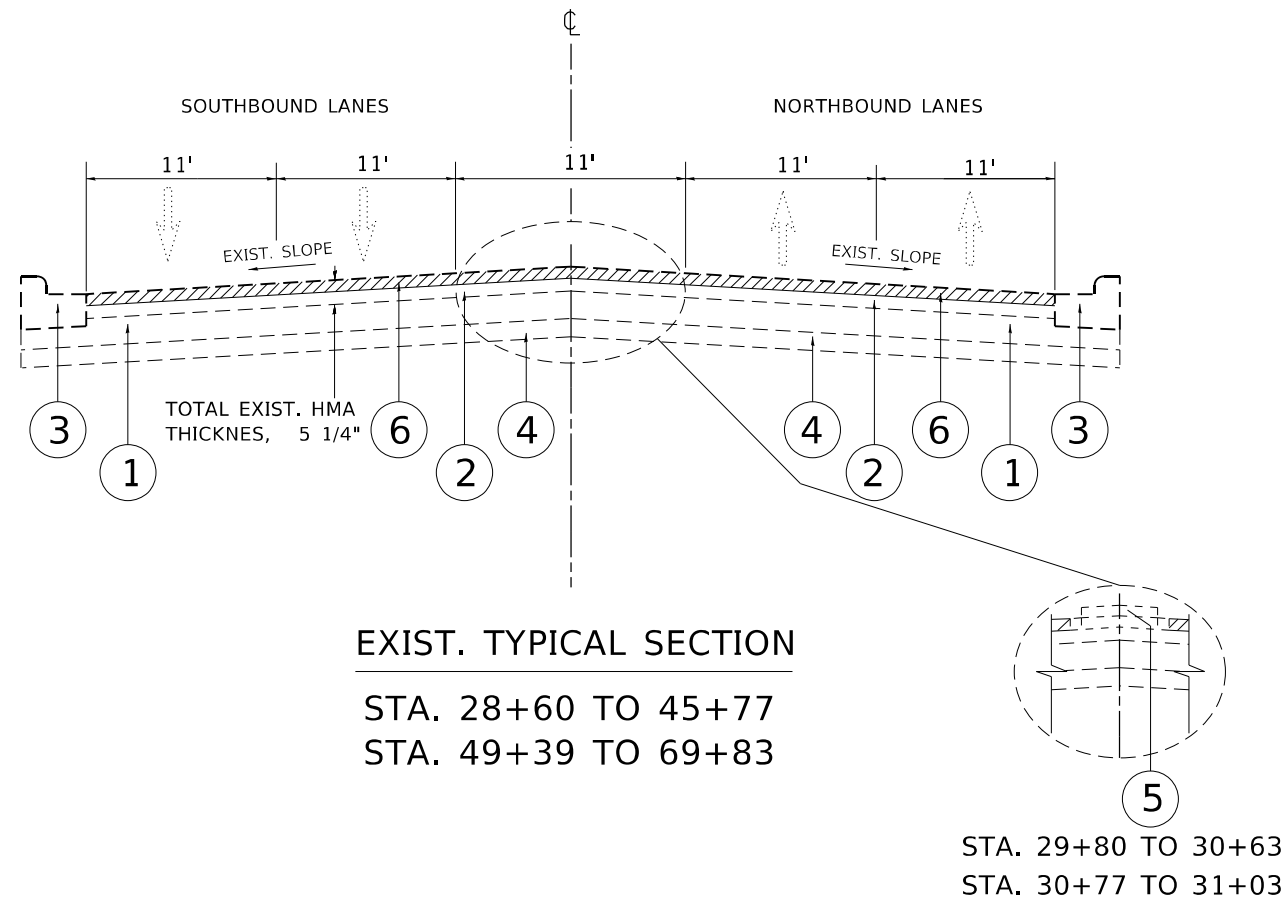
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 21 (MILWAUKEE AVE.) CHURCH ST. TO S0 FINSTAD DR.
SUMMARY OF QUANTITIES**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	6
CONTRACT NO. 62P33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: SHEET NO. 3 OF 3 SHEETS STA. TO STA.

IL. 21 (MILWAUKEE AVE)



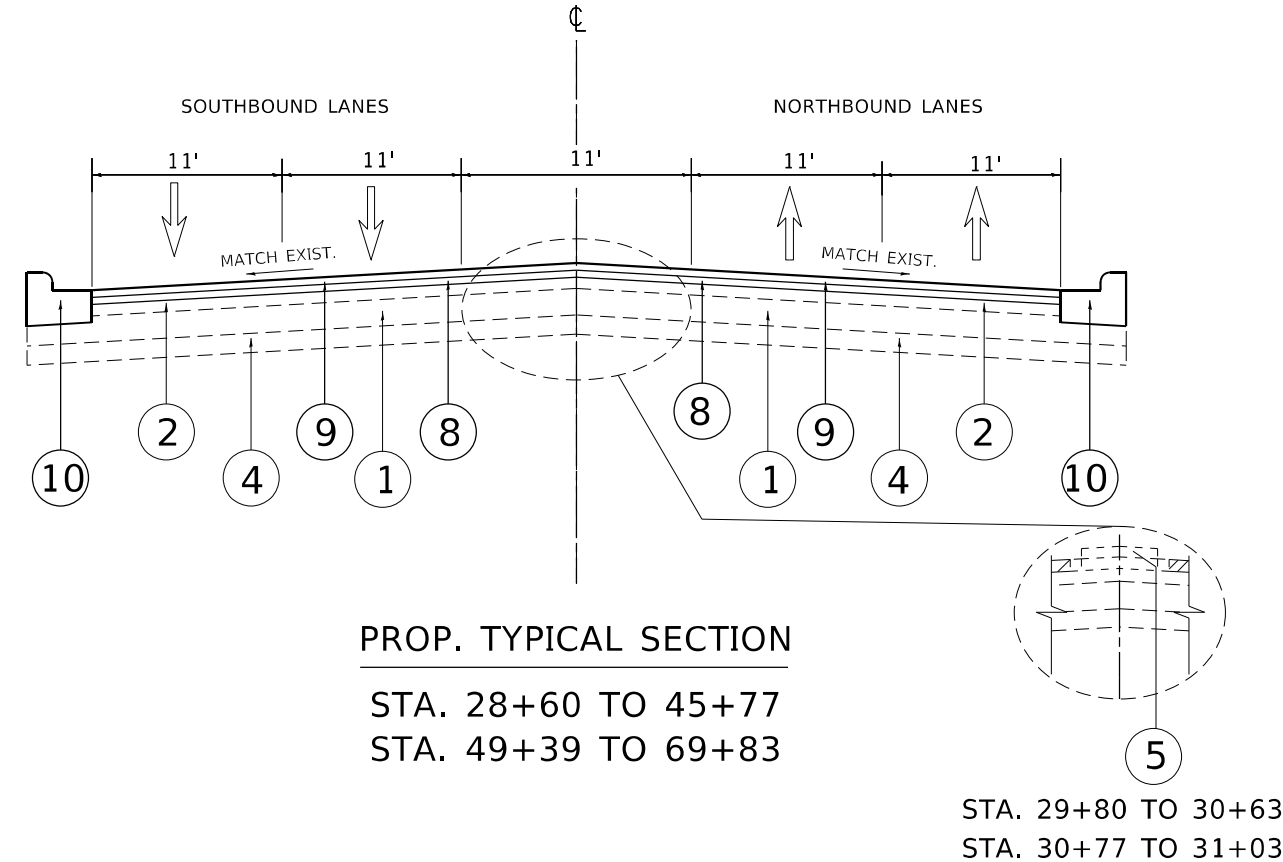
LEGEND

- ① EXISTING PCC BASE COURSE, ± 7"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 1 1/2"
- ③ EXISTING COMB. CURB AND GUTTER
- ④ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ⑤ EXISTING CONCRETE MEDIAN
- ⑥ PROP. HMA SURFACE REMOVAL, 3 3/4"
- ⑦ PROP. HMA SURFACE REMOVAL, 1 3/4"
- ⑧ PROP. HOT-MIX ASPHALT BINDER, IL-9.5, N70, 2"
- ⑨ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑩ CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)

NOTES:

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE, IL-9.5, N70
3. *PARKING LANE:
 ON THE RIGHT: STA. 16+59 TO STA. 25+57
 ON THE LEFT: STA. 16+76 TO STA. 28+60

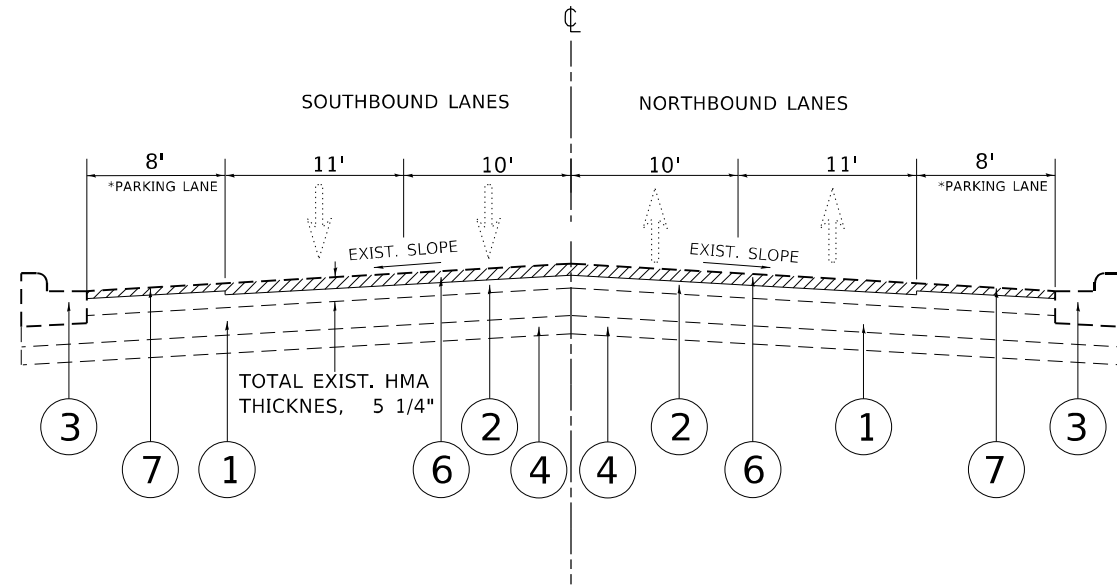
IL. 21 (MILWAUKEE AVE)



HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	AIR VOIDS(%) @ Ndes	
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", IL-9.5, N70, 1.75"	4% @ 70 GYR.	QCP
HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70, 2"	4% @ 70 GYR.	QCP
TEMPORARY RAMP, SPECIAL (HMA BINDER IL-9.5, N70)	4% @ 70 GYR.	QC/QA
DRIVEWAY REMOVAL & REPLACEMENT		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.

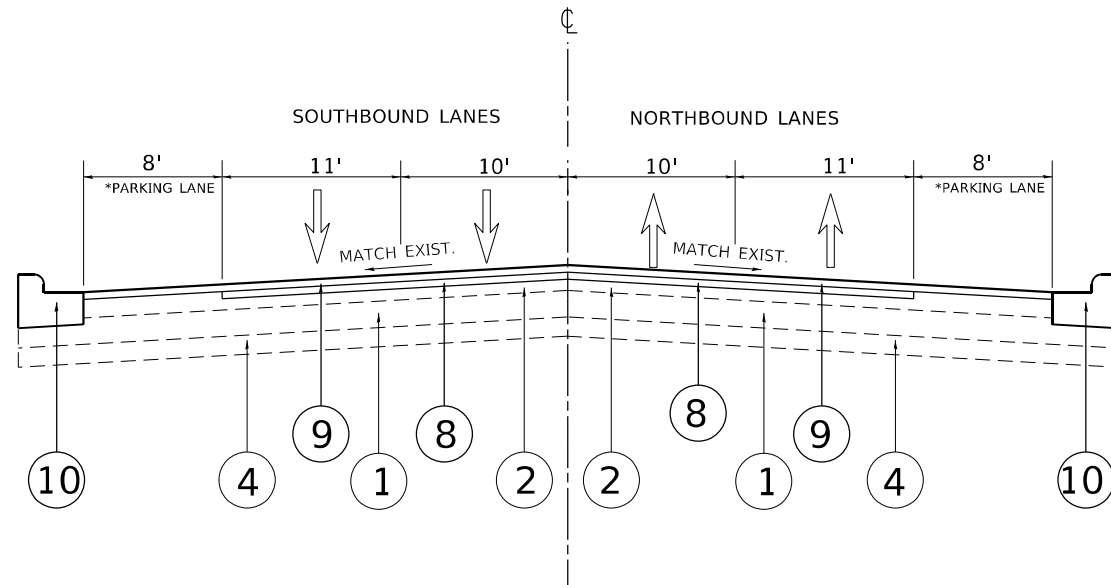
IL. 21 (MILWAUKEE AVE)



EXIST. TYPICAL SECTION

STA. 15+76 TO 28+60

IL. 21 (MILWAUKEE AVE)



PROP. TYPICAL SECTION

STA. 15+76 TO 28+60

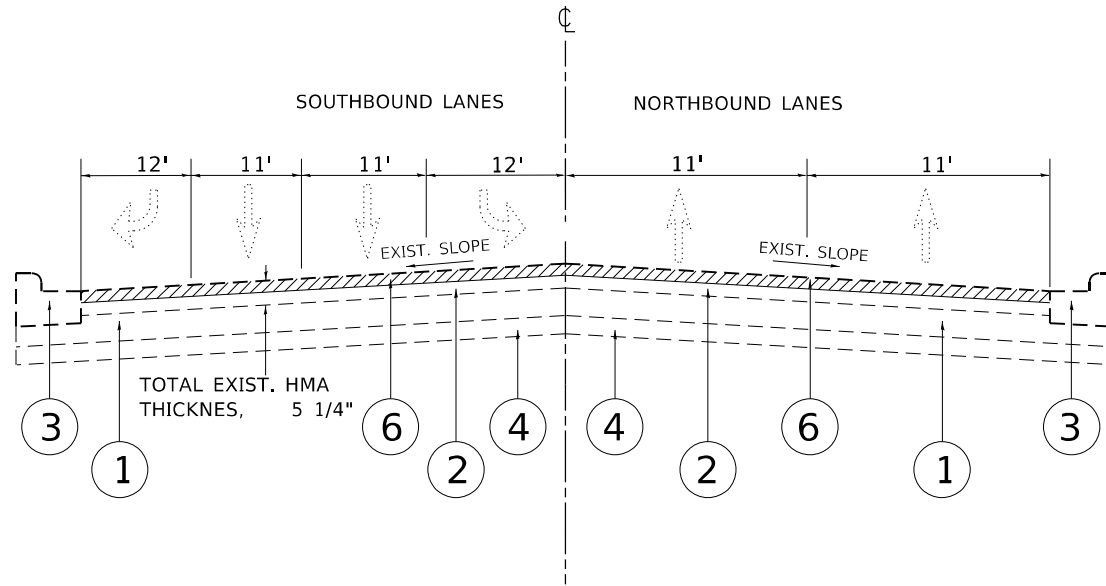
LEGEND

- ① EXISTING PCC BASE COURSE, ± 7"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 1 1/2"
- ③ EXISTING COMB. CURB AND GUTTER
- ④ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ⑤ EXISTING CONCRETE MEDIAN
- ⑥ PROP. HMA SURFACE REMOVAL, 3 3/4"
- ⑦ PROP. HMA SURFACE REMOVAL, 1 3/4"
- ⑧ PROP. HOT-MIX ASPHALT BINDER, IL-9.5, N70, 2"
- ⑨ PROP. POLY. HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑩ CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)

NOTES:

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE, IL-9.5, N70
3. *PARKING LANE:
ON THE RIGHT: STA. 16+59 TO STA. 25+57
ON THE LEFT: STA. 16+76 TO STA. 28+60

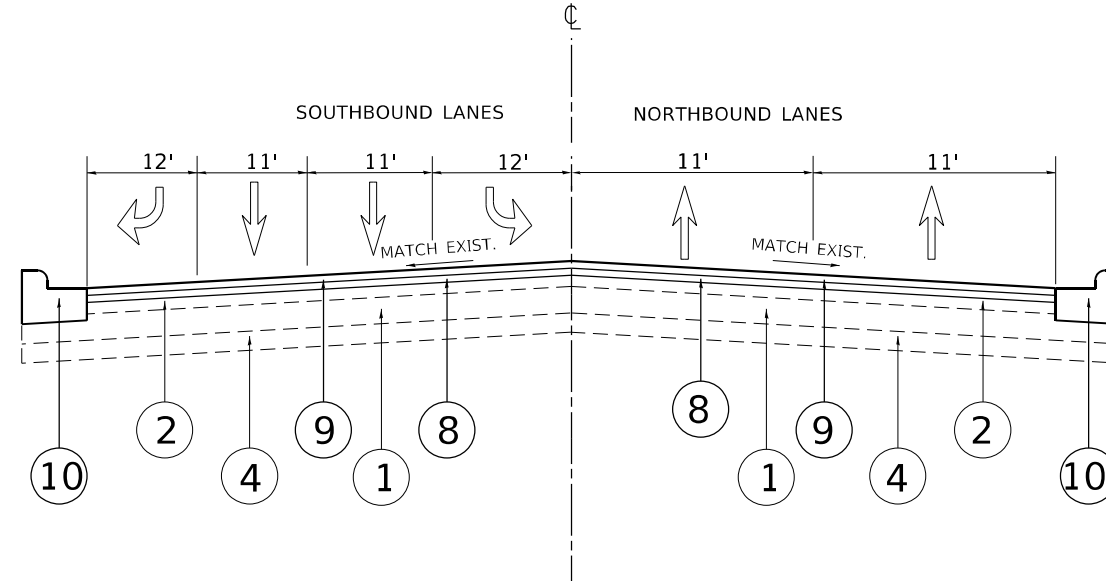
IL. 21 (MILWAUKEE AVE)



EXIST. TYPICAL SECTION

STA. 45+77 TO 49+39

IL. 21 (MILWAUKEE AVE)



PROP. TYPICAL SECTION

STA. 45+77 TO 49+39

LEGEND

- ① EXISTING PCC BASE COURSE, ± 7"
- ② EXISTING HOT-MIX ASPHALT AFTER MILLING, ± 1 1/2"
- ③ EXISTING COMB. CURB AND GUTTER
- ④ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE B, 4"
- ⑤ EXISTING CONCRETE MEDIAN
- ⑥ PROP. HMA SURFACE REMOVAL, 3 3/4"
- ⑦ PROP. HMA SURFACE REMOVAL, 1 3/4"
- ⑧ PROP. HOT-MIX ASPHALT BINDER, IL-9.5, N70, 2"
- ⑨ PROP. POLY HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑩ CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DIRECTED BY THE ENGINEER)

NOTES:

1. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE, IL-9.5, N70
3. *PARKING LANE:
ON THE RIGHT: STA. 16+59 TO STA. 25+57
ON THE LEFT: STA. 16+76 TO STA. 28+60

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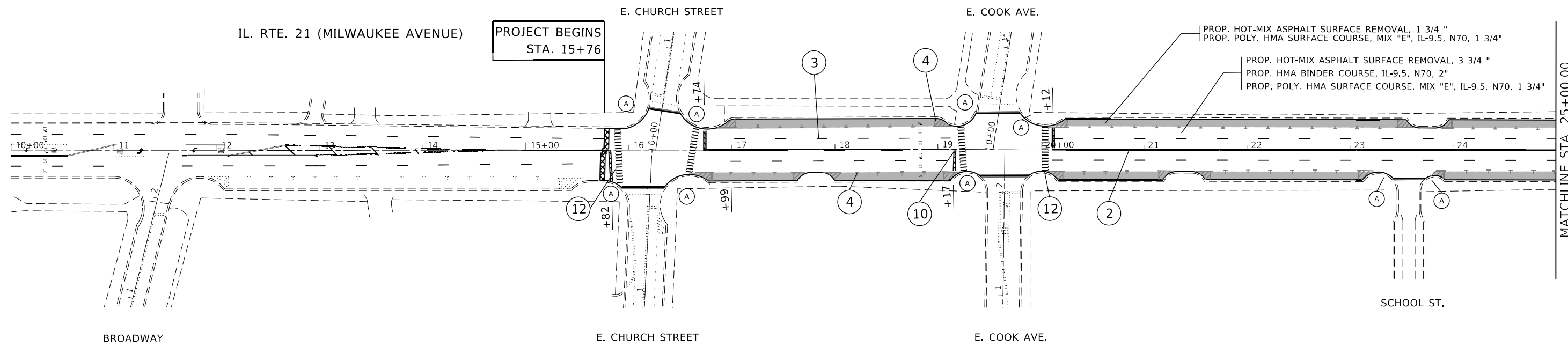
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 21 (MILWAUKEE AVE.) [CHURCH ST. TO S/O FINSTAD DR.]
EXISTING & PROPOSED TYPICAL SECTIONS**

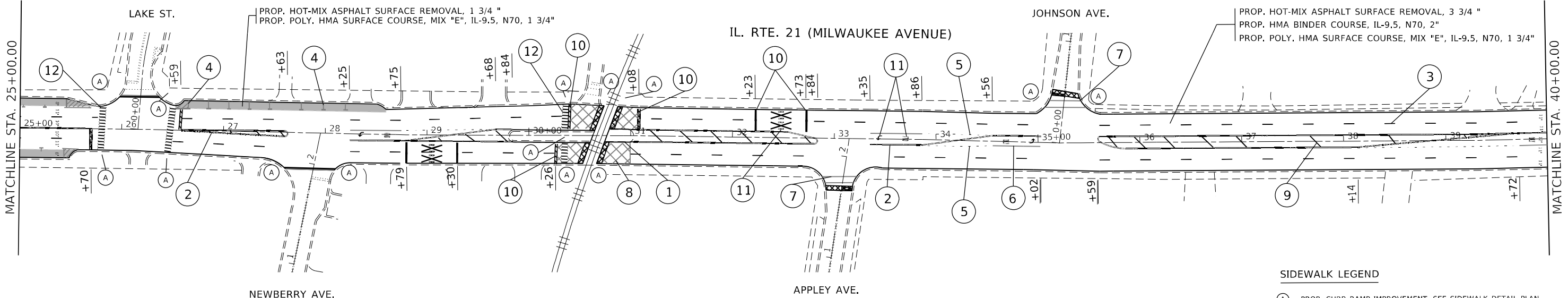
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	9
CONTRACT NO. 62P33				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

1) THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID YELLOW LINE (TYP.)	5) THERMOPLASTIC PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' DASH - 6' SKIP (TYP.)	9) THERMOPLASTIC PAVEMENT MARKING, 12" DIAGONAL SOLID YELLOW LINE @ 75' C-C (5 MINIMUM) (TYP.)
2) THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	6) THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.)	10) THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
3) THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)	7) THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP, UNLESS OTHERWISE NOTED)	11) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, SOLID WHITE (TYP.)
4) THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID WHITE LINE (TYP.)	8) THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE LINE, 8' C-C (TYP.)	12) THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SCHOOL CROSSWALK (TYP.)



NOTES:

- ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23
- LIMIT OF RESURFACING ON THE SIDE-STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN
- ALL EXISTING BRICK PAVER CROSSWALKS ARE TO REMAIN AND SHALL BE PROTECTED AS NECESSARY TO AVOID DAMAGE DURING CONSTRUCTION.
- TRAFFIC SIGNAL IMPACTS DUE TO EXISTING DETECTOR LOOP IMPACTS SHOULD BE COORDINATED WITH THE VILLAGE WITH SPECIAL ATTENTION TO THE SIGNALIZATION AT THE LIBERTYVILLE FIRE STATION ENTRANCE AS TO NOT IMPACT EMERGENCY RESPONSE ACTIVITY.

SIDEWALK LEGEND

- A PROP. CURB RAMP IMPROVEMENT. SEE SIDEWALK DETAIL PLAN
- B PROP. CURB RAMP IMPROVEMENT, USE PD-01A
- C PROP. CURB RAMP IMPROVEMENT, USE PD-01C
- D PROP. CURB RAMP IMPROVEMENT, USE STD. 424031-02

MODEL - Default
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 PROJECT ID - 2021-108-R5-SW&FL-1037-1-Sub-A-001
 PROJECT DATE - 5/5/2022

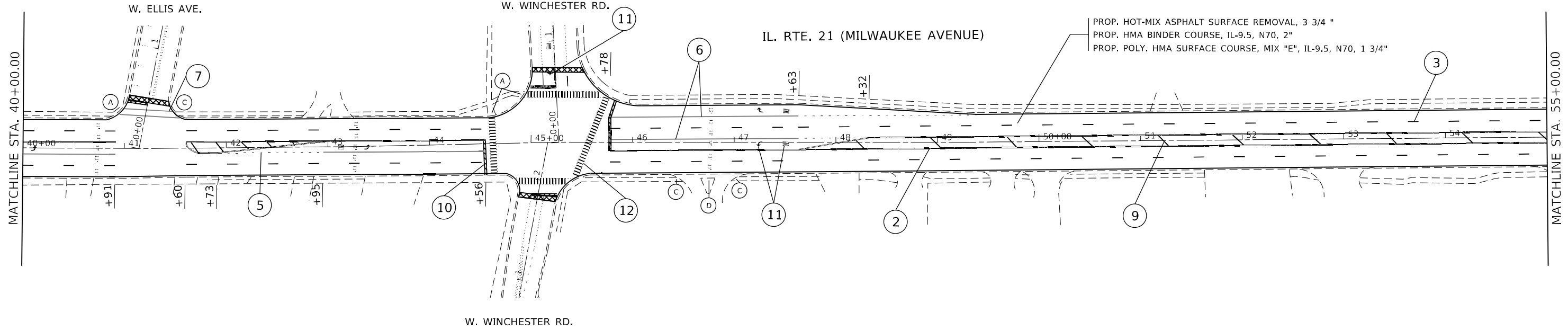
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PLOT DATE = 5/5/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 21 (MILWAUKEE AVE.) CHURCH ST. TO S/O FINSTAD DR.
ROADWAY AND PAVEMENT MARKING PLAN**

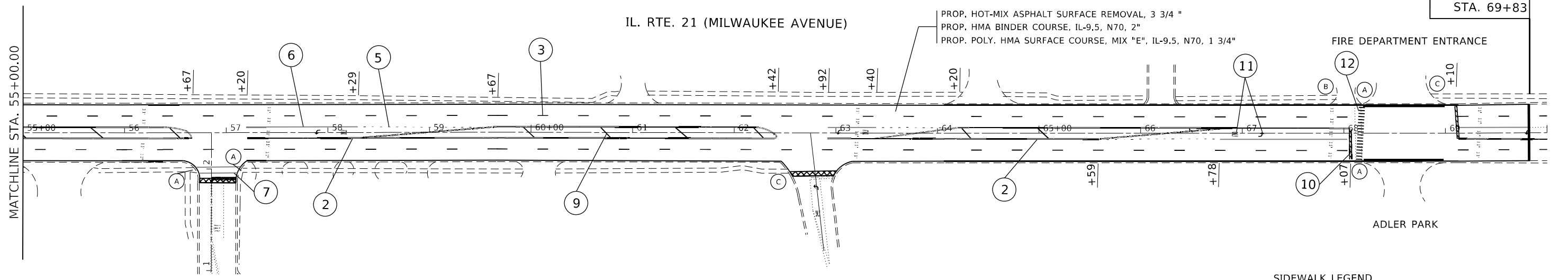
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	10
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET 1 OF 2 SHEETS STA. 15+76 TO STA. 40+00



PAVEMENT MARKING LEGEND

- | | | |
|--|---|---|
| 1 THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID YELLOW LINE (TYP.) | 5 THERMOPLASTIC PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' DASH - 6' SKIP (TYP.) | 9 THERMOPLASTIC PAVEMENT MARKING, 12" DIAGONAL SOLID YELLOW LINE @ 75' C-C (5 MINIMUM) (TYP.) |
| 2 THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.) | 6 THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.) | 10 THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.) |
| 3 THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.) | 7 THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP, UNLESS OTHERWISE NOTED) | 11 THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, SOLID WHITE (TYP.) |
| 4 THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID WHITE LINE (TYP.) | 8 THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE LINE, 8' C-C (TYP.) | 12 THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SCHOOL CROSSWALK (TYP.) |



PROJECT ENDS STA. 69+83

- PARKING LANE
- TEMPORARY RAMP (SPECIAL), 2'
- HMA SURFACE REMOVAL BUTT JOINT, 4.5'

NOTES:

- 1) ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23
- 2) LIMIT OF RESURFACING ON THE SIDE-STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN
- 3) ALL EXISTING BRICK PAVER CROSSWALKS ARE TO REMAIN AND SHALL BE PROTECTED AS NECESSARY TO AVOID DAMAGE DURING CONSTRUCTION.
- 4) TRAFFIC SIGNAL IMPACTS DUE TO EXISTING DETECTOR LOOP IMPACTS SHOULD BE COORDINATED WITH THE VILLAGE WITH SPECIAL ATTENTION TO THE SIGNALIZATION AT THE LIBERTYVILLE FIRE STATION ENTRANCE AS TO NOT IMPACT EMERGENCY RESPONSE ACTIVITY.

SIDEWALK LEGEND

- (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAIL PLAN
- (B) PROP. CURB RAMP IMPROVEMENT, USE PD-01A
- (C) PROP. CURB RAMP IMPROVEMENT, USE PD-01C
- (D) PROP. CURB RAMP IMPROVEMENT, USE STD. 424031-02

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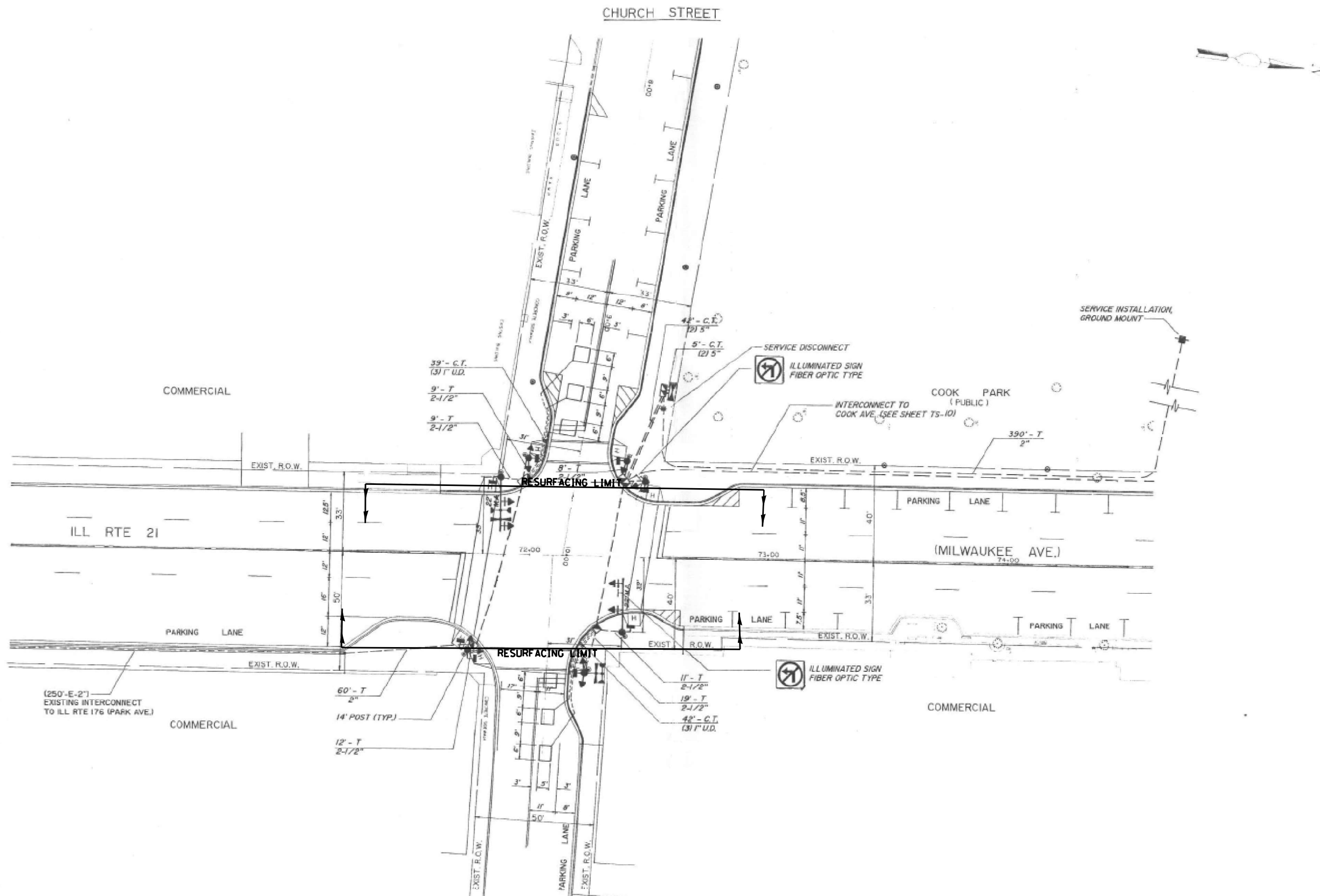
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 21 (MILWAUKEE AVE.) CHURCH ST. TO S/O FINSTAD DR.
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: SHEET 2 OF 2 SHEETS STA. 40+00 TO STA. 69+83

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	11
CONTRACT NO. 62P33				
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.

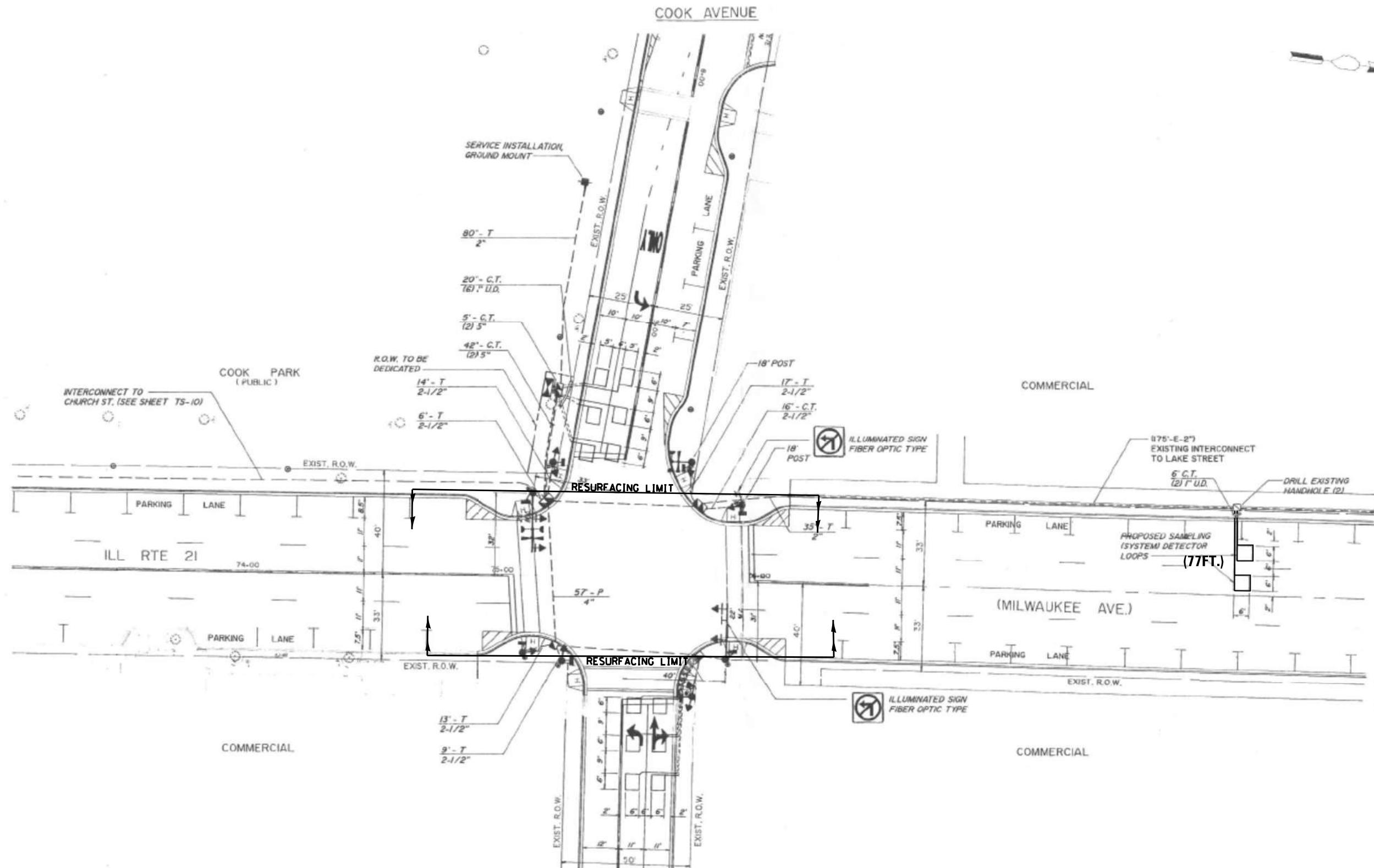
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	0	FOOT

TS#13995

FILE NAME =	USER NAME = mezag	DESIGN - Steven M. Nguyen	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL 21 (MILWAUKEE AVE.) AT CHURCH STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 1\Projects\Traffic\CD\Drawings\Traffic\Detectors\Mezag\57513995 IL 21 Milwaukee Ave @ Church St.dgn	DRAWN - Steven M. Nguyen	REVISOR - Steven M. Nguyen	REVISIONS -			330	2021-108-RS-SW & FL	LAKE	49	12
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ILLINOIS FED. AID PROJECT



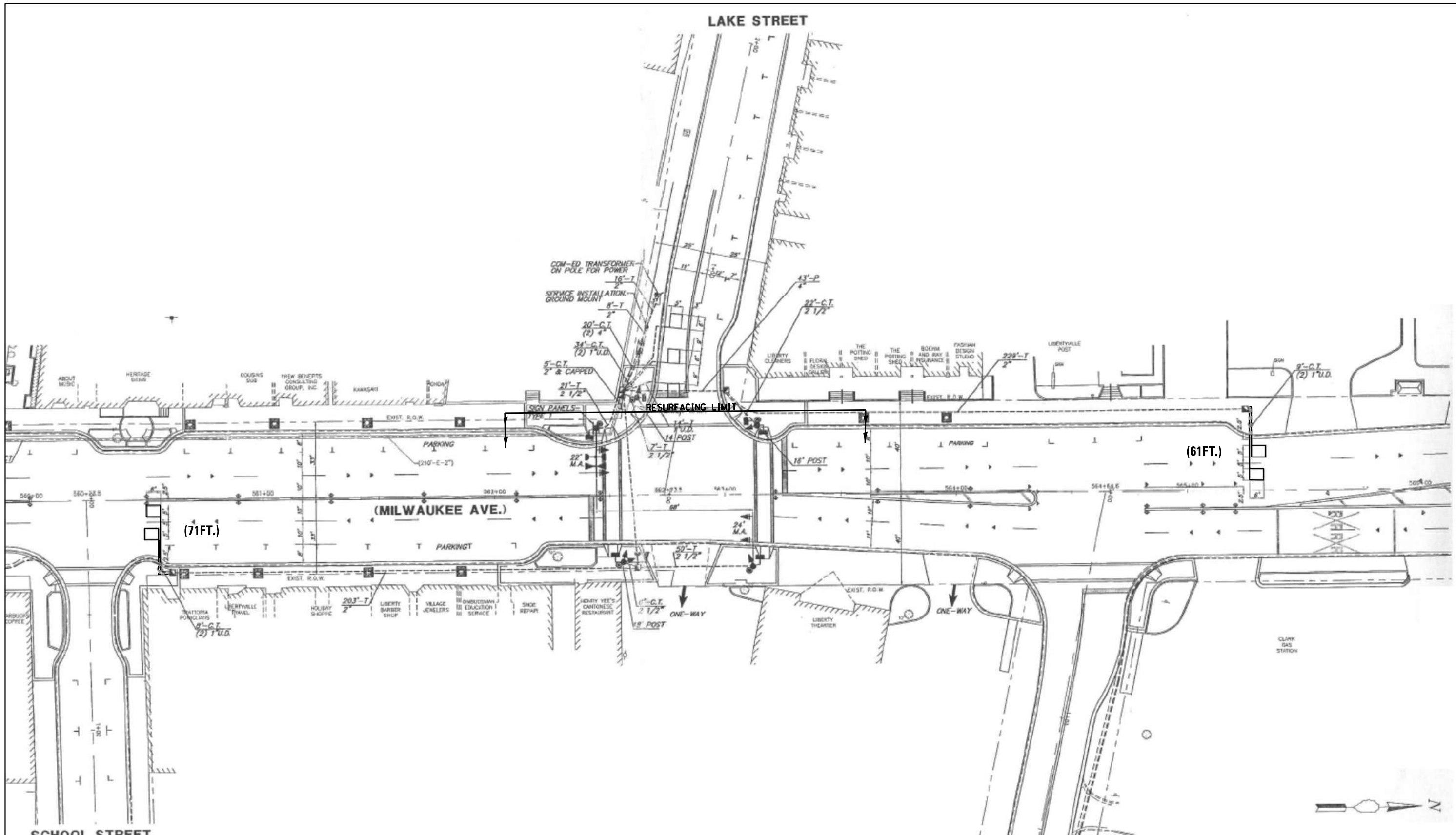
NOTES:

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	TS#13990
88600600	DETECTOR LOOP REPLACEMENT	77	FOOT	

FILE NAME =	USER NAME = mezag	DESIGN - Steven M. Nguyen	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN ILL 21 (MILWAUKEE AVE.) AT COOK STREET	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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PLOT SCALE = 40.0000' / in.	CHECKED - Steven M. Nguyen	REVISED -	CONTRACT NO. 62P33							
Default	DATE - 08/20/2021	REVISED -	ILLINOIS FED. AID PROJECT							



SCHOOL STREET

LAKE STREET

(MILWAUKEE AVE.)

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)**

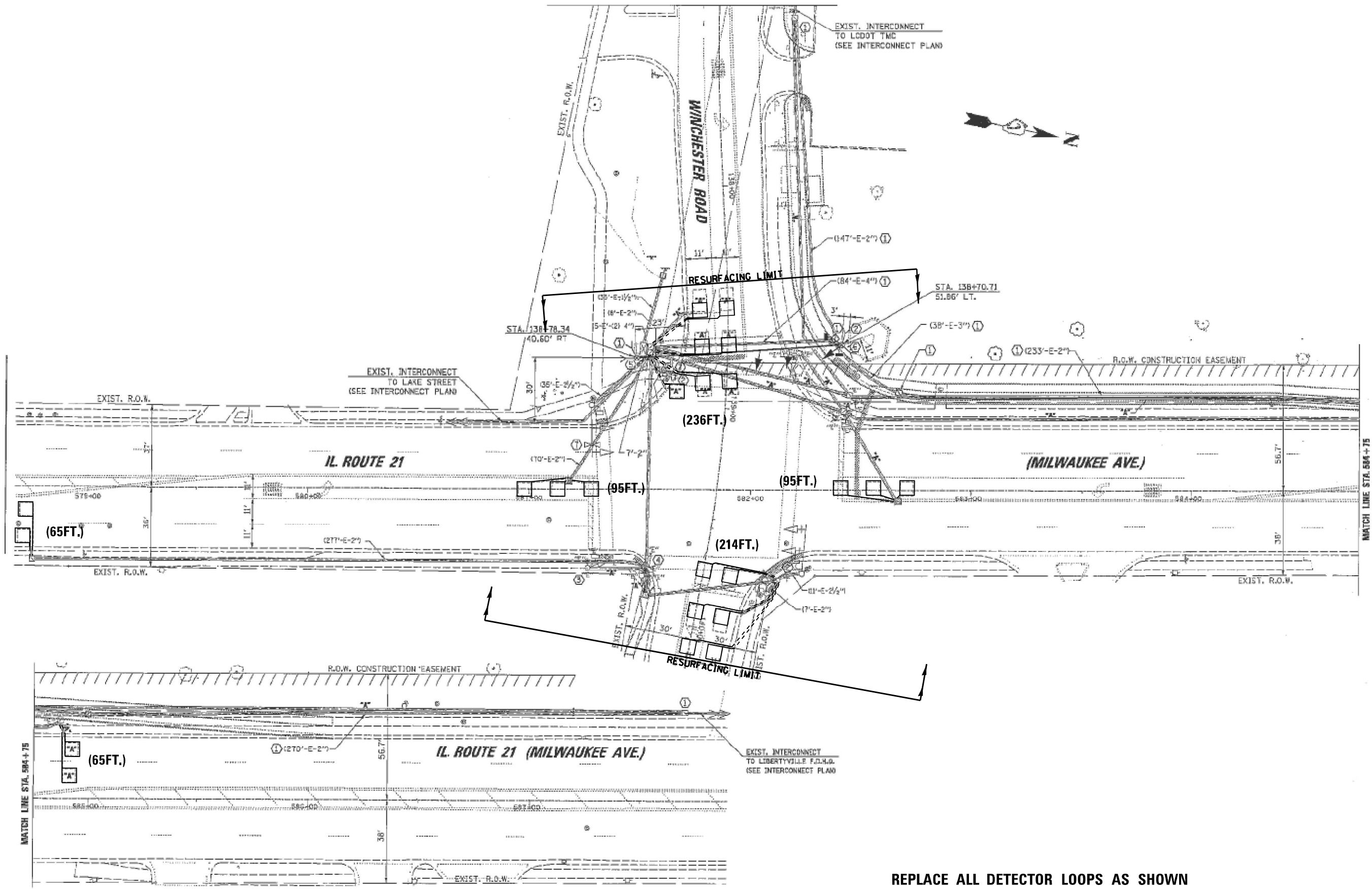
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88600600	DETECTOR LOOP REPLACEMENT	132	FOOT	

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	PLOT DATE = 8/20/2021	DATE - 08/20/2021	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN IL 21 (MILWAUKEE AVE.) AT LAKE STREET			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW & FL	LAKE	49	14
CONTRACT NO. 62P33				
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.

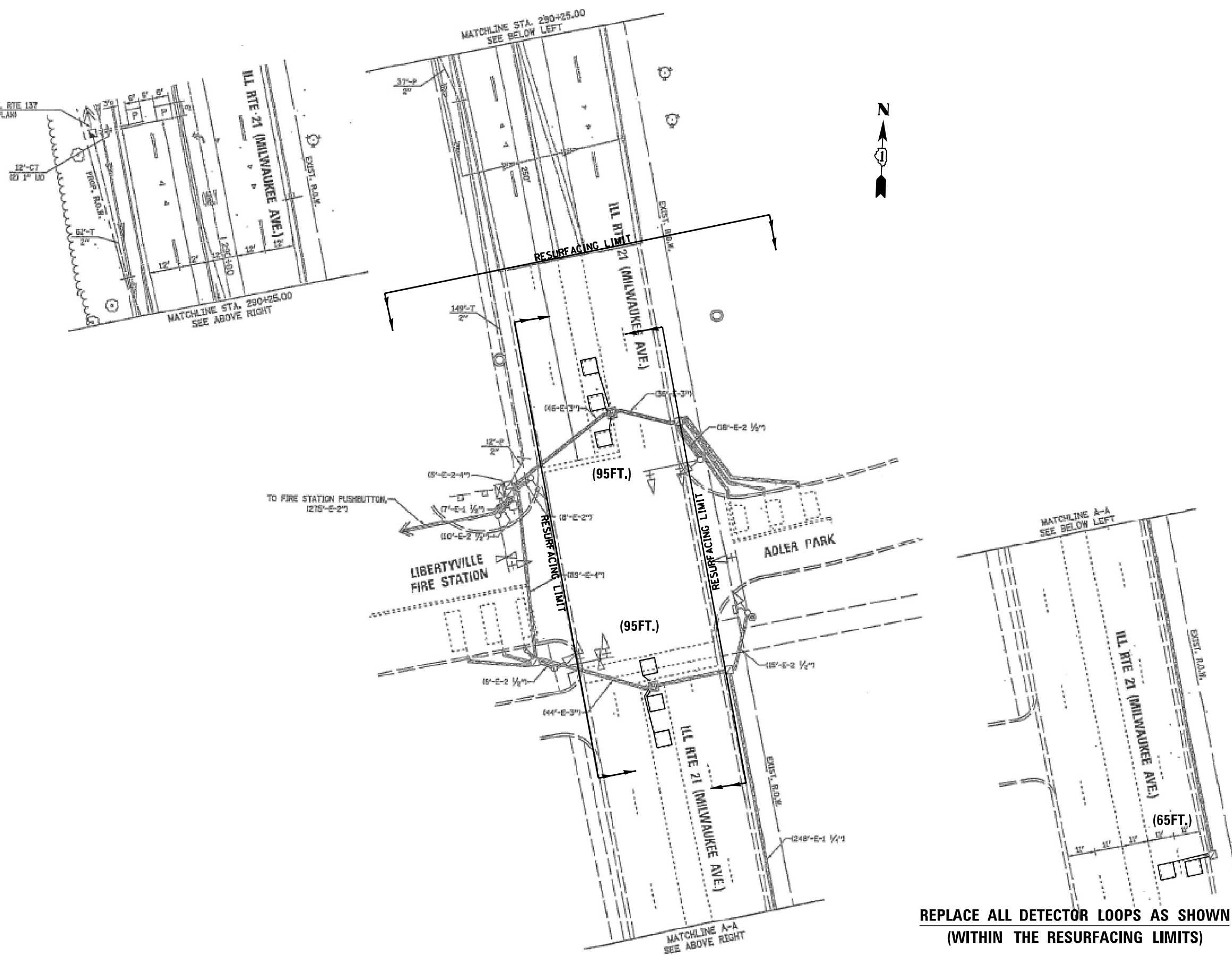
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	770	FOOT

TS#13985

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PLOT SCALE = 40.0000' / in.	CHECKED - Steven M. Nguyen	REVISIONS -	CONTRACT NO. 62P33							
Default	DATE - 08/20/2021	REVISIONS -	ILLINOIS FED. AID PROJECT							

INTERCONNECT TO ILL RTE 137
(SEE INTERCONNECT PLAN)



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

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.

CODE	ITEM	QUANTITY	UNIT	TS#14016
88600600	DETECTOR LOOP REPLACEMENT	255	FOOT	

FILE NAME =	USER NAME = mezag	DESIGN - Steven M. Nguyen	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN IL 21 (MILWAUKEE AVE.) AT ADLER PARK			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\idot-pw.bentley.com\PWIDOT\Documents\IDOT Offices\District 1\Projects\Traffic\CD\Drawn\Traffic\Detector\Mezag\Mezag\CD\14016 IL 21 Milwaukee Ave @ Adler Park.dgn	DRAWN - Mezag	CD - Mezag	REVISED -		330	2021-108-RS-SW & FL	LAKE	49	16			
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	PLOT DATE = 1/7/2022	DATE - 08/20/2021	REVISED -		ILLINOIS FED. AID PROJECT							



SOUTHWEST CORNER



SOUTHEAST CORNER



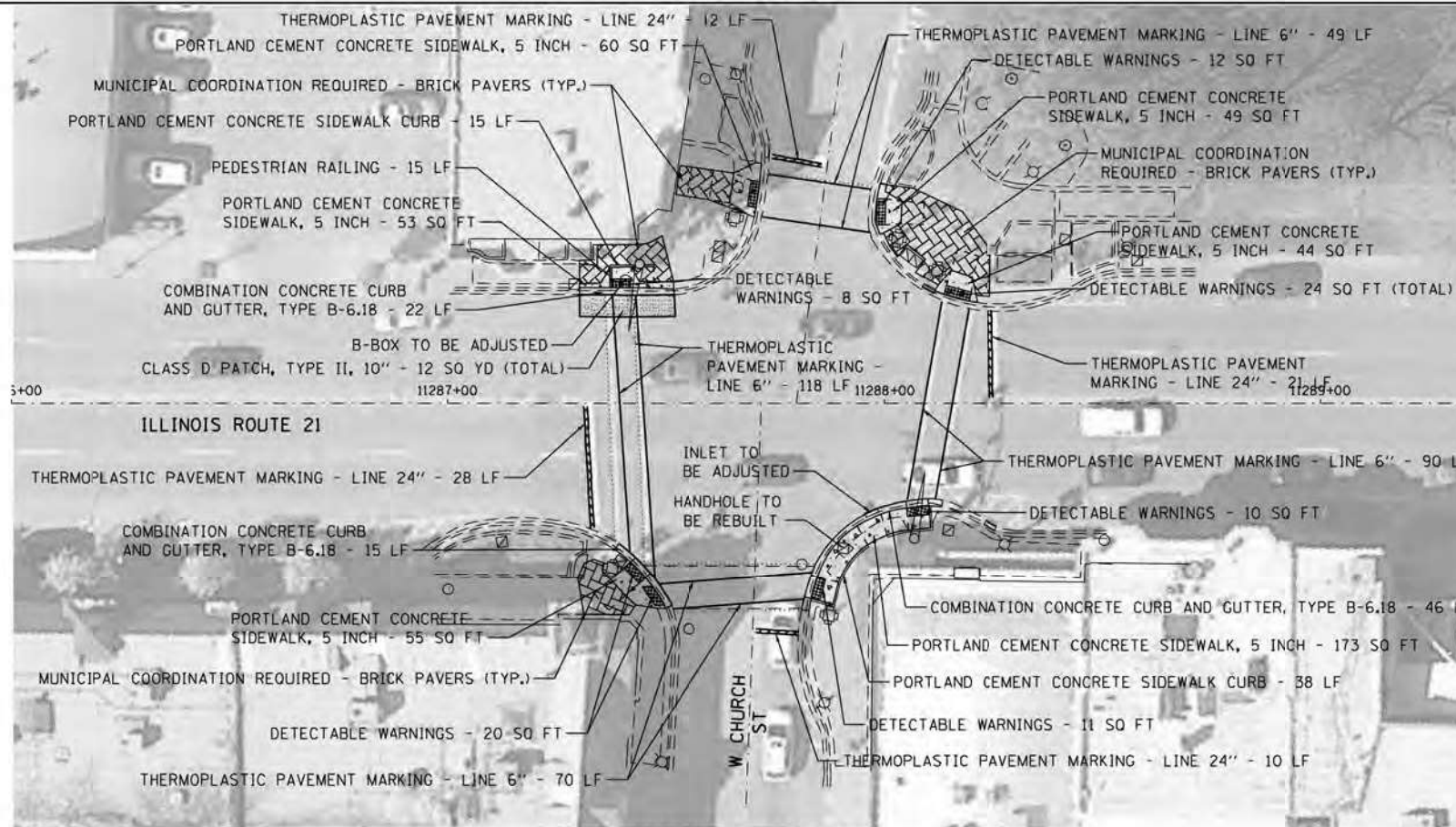
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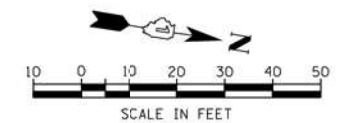
NORTHWEST CORNER



NORTHEAST CORNER



PROPOSED



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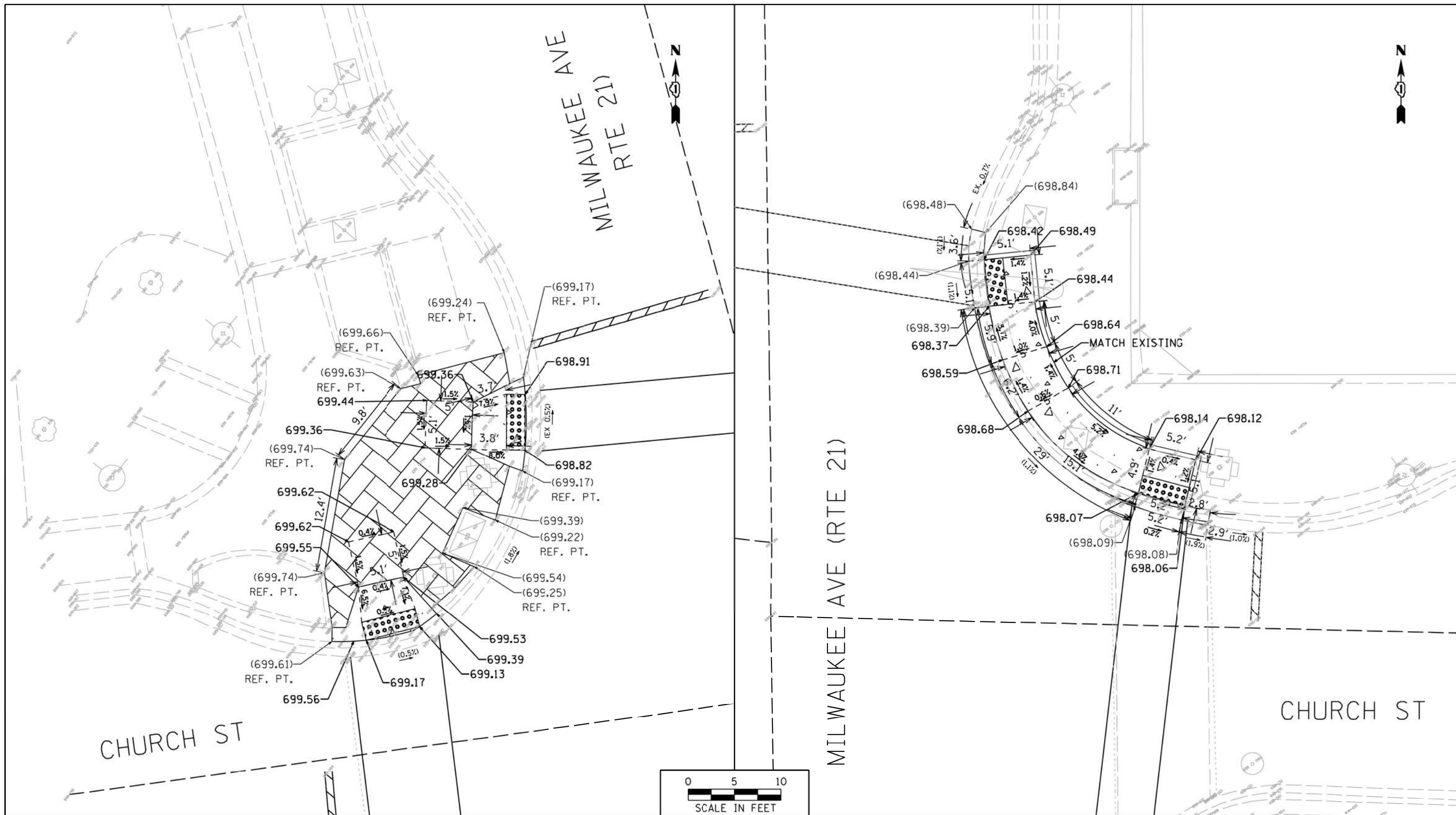
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
IL 21 (MILWAUKEE AVE.) & CHURCH ST.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	17
			CONTRACT NO. 62P33	
		ILLINOIS	FED. AID PROJECT	



REFERENCE BENCHMARK ELEV.

BENCHMARK :

LOCATION :

LEGEND

xx.xx'

EXISTING LENGTH

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



PROPOSED SIDE CURB

SC

TOP OF PROPOSED SIDE CURB



CLASS D PATCH



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TCP SOIL & SOD

REFERENCE BENCHMARK ELEV.

BENCHMARK :

LOCATION :

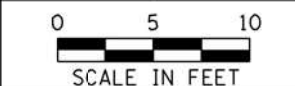
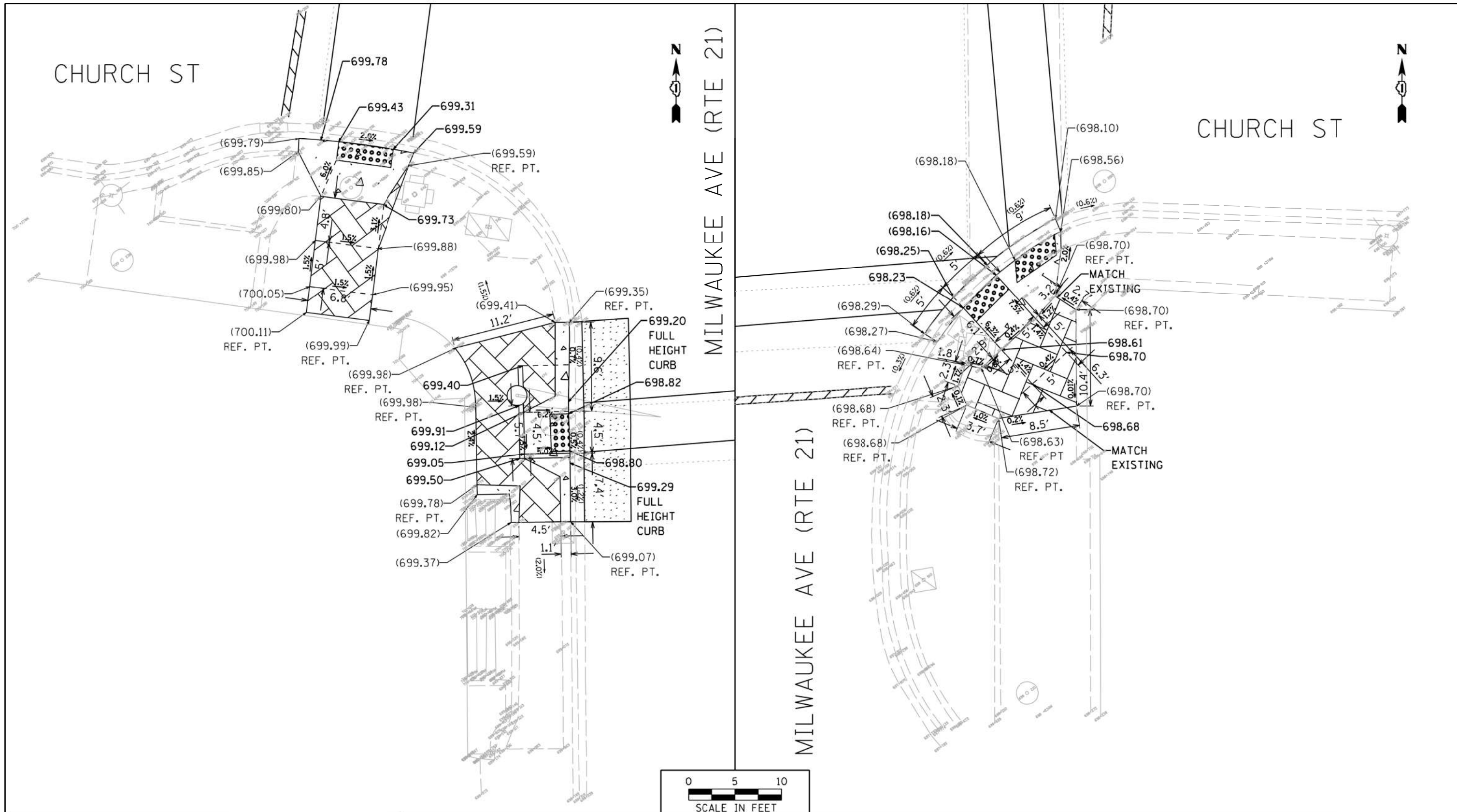
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	PLOT DATE = 3/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & CHURCH ST.)
NW & NE CORNERS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	18
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV.
 BENCHMARK :
 LOCATION :

LEGEND

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

REFERENCE BENCHMARK ELEV.
 BENCHMARK :
 LOCATION :

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & CHURCH ST.)
 SW & SE CORNERS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	19
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



SOUTHWEST CORNER



SOUTHEAST CORNER



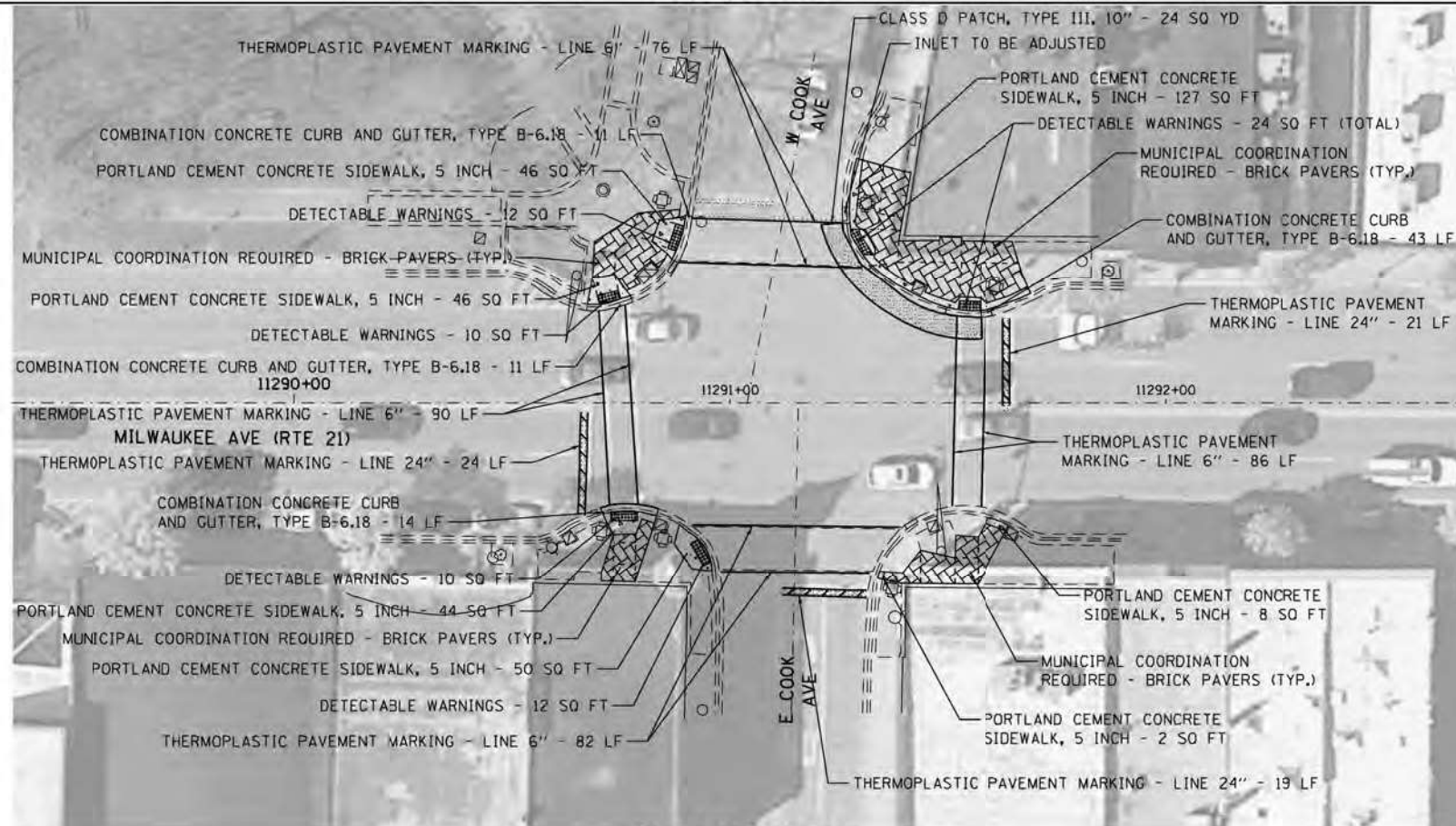
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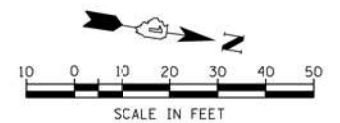
NORTHWEST CORNER



NORTHEAST CORNER



PROPOSED



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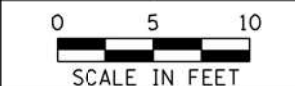
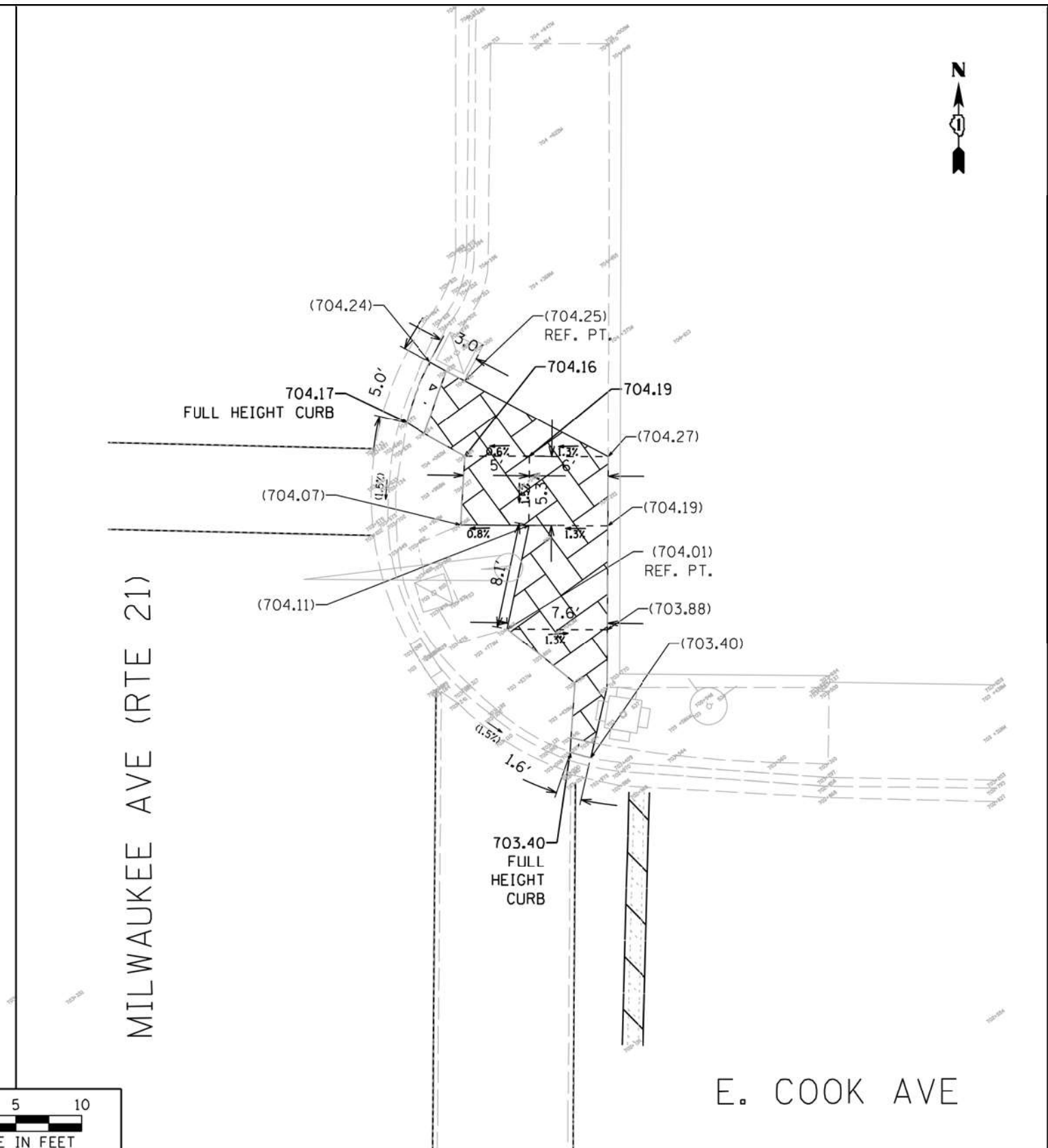
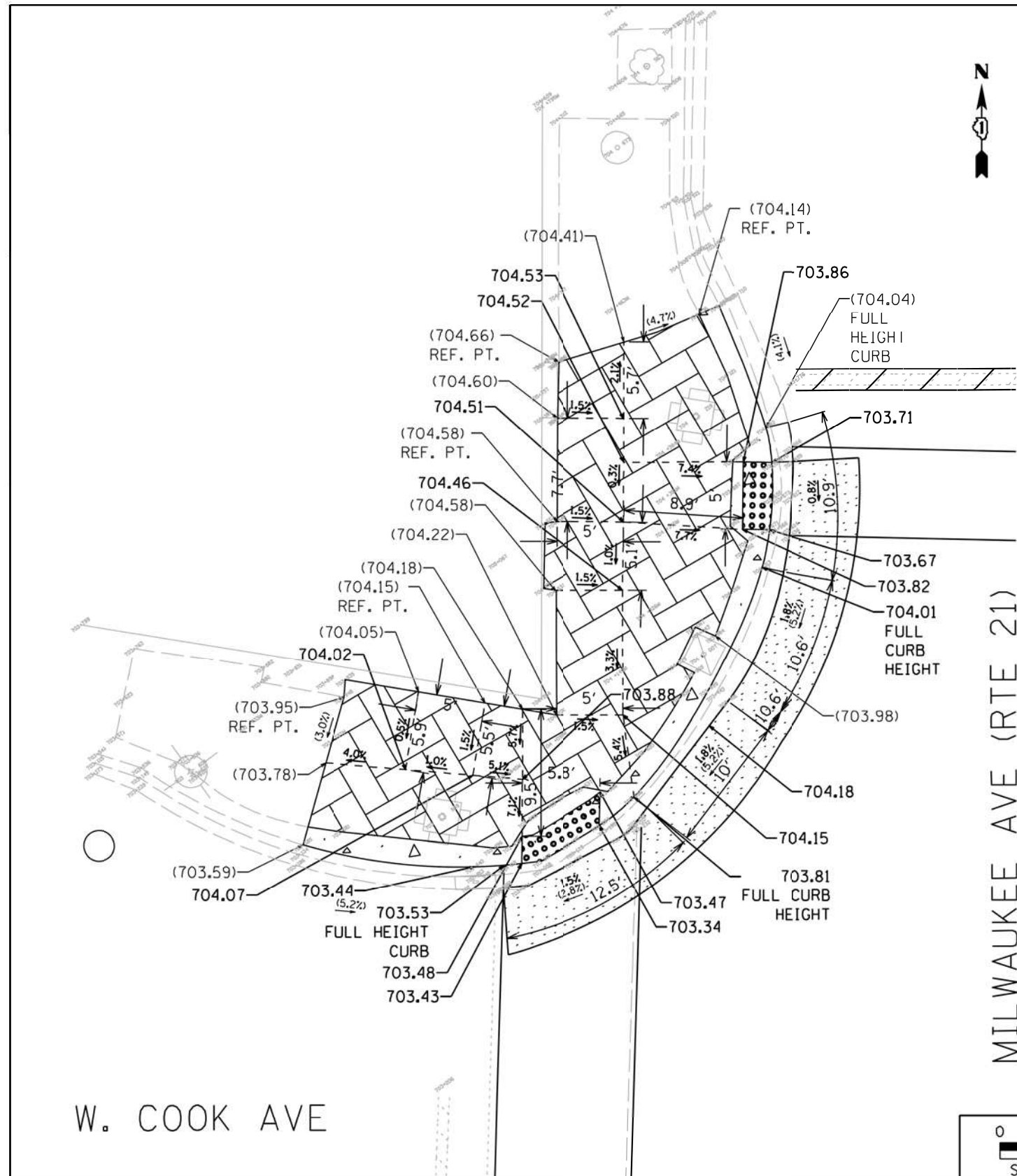
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
IL 21 (MILWAUKEE AVE.) & COOK AVE.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	20
CONTRACT NO. 62P33				
ILLINOIS		FED. AID PROJECT		



REFERENCE BENCHMARK ELEV.
 BENCHMARK :
 LOCATION :

LEGEND
 [xx.xx'] EXISTING LENGTH
 () EXISTING ELEVATION/SLOPE

- [Symbol] PROPOSED SIDEWALK
- [Symbol] CLASS D PATCH
- [Symbol] PROPOSED SIDE CURB
- [Symbol] DETECTABLE WARNINGS
- [Symbol] TOP OF PROPOSED SIDE CURB
- [Symbol] SIDEWALK REMOVAL REPLACE W/TCP SOIL & SOD

REFERENCE BENCHMARK ELEV.
 BENCHMARK :
 LOCATION :

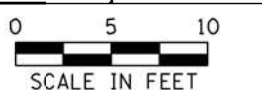
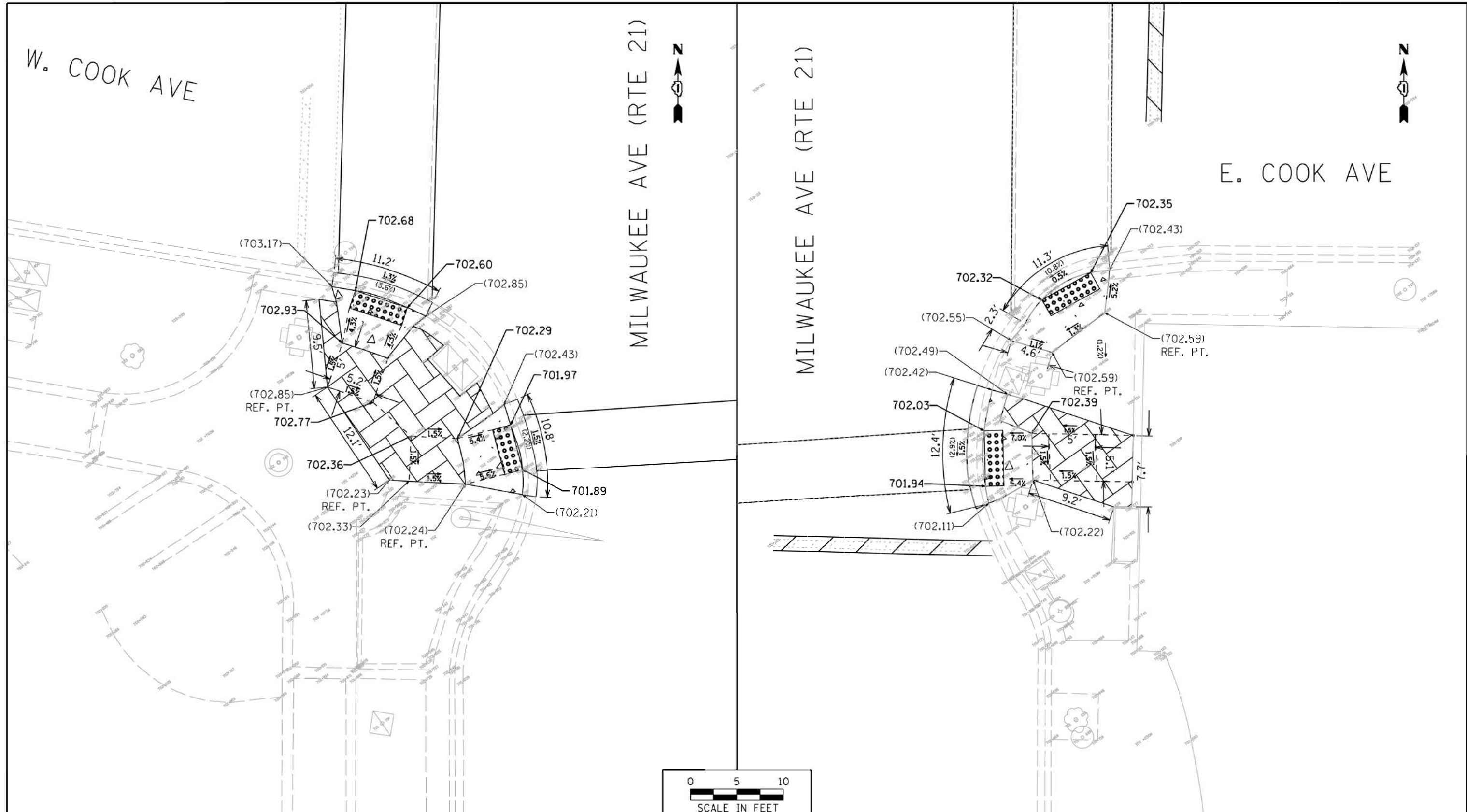
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	PLOT DATE = 3/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & COOK AVE.)
 NW & NE CORNERS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	21
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV. BENCHMARK : LOCATION :	LEGEND <div style="display: flex; justify-content: space-around;"> <div> <p>xx.xx' EXISTING LENGTH</p> <p>() EXISTING ELEVATION/SLOPE</p> </div> <div> <p> PROPOSED SIDEWALK</p> <p> PROPOSED SIDE CURB</p> <p>SC TOP OF PROPOSED SIDE CURB</p> </div> <div> <p> CLASS D PATCH</p> <p> DETECTABLE WARNINGS</p> <p> SIDEWALK REMOVAL REPLACE W/TCPSOIL & SOD</p> </div> </div>	REFERENCE BENCHMARK ELEV. BENCHMARK : LOCATION :
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FILE NAME :	USER NAME = bebunaj	DESIGNED -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS DETAILS (MILWAUKEE AVE. & COOK AVE.)
SW & SE CORNERS

SCALE: SHEET OF SHEETS STA. TO STA.

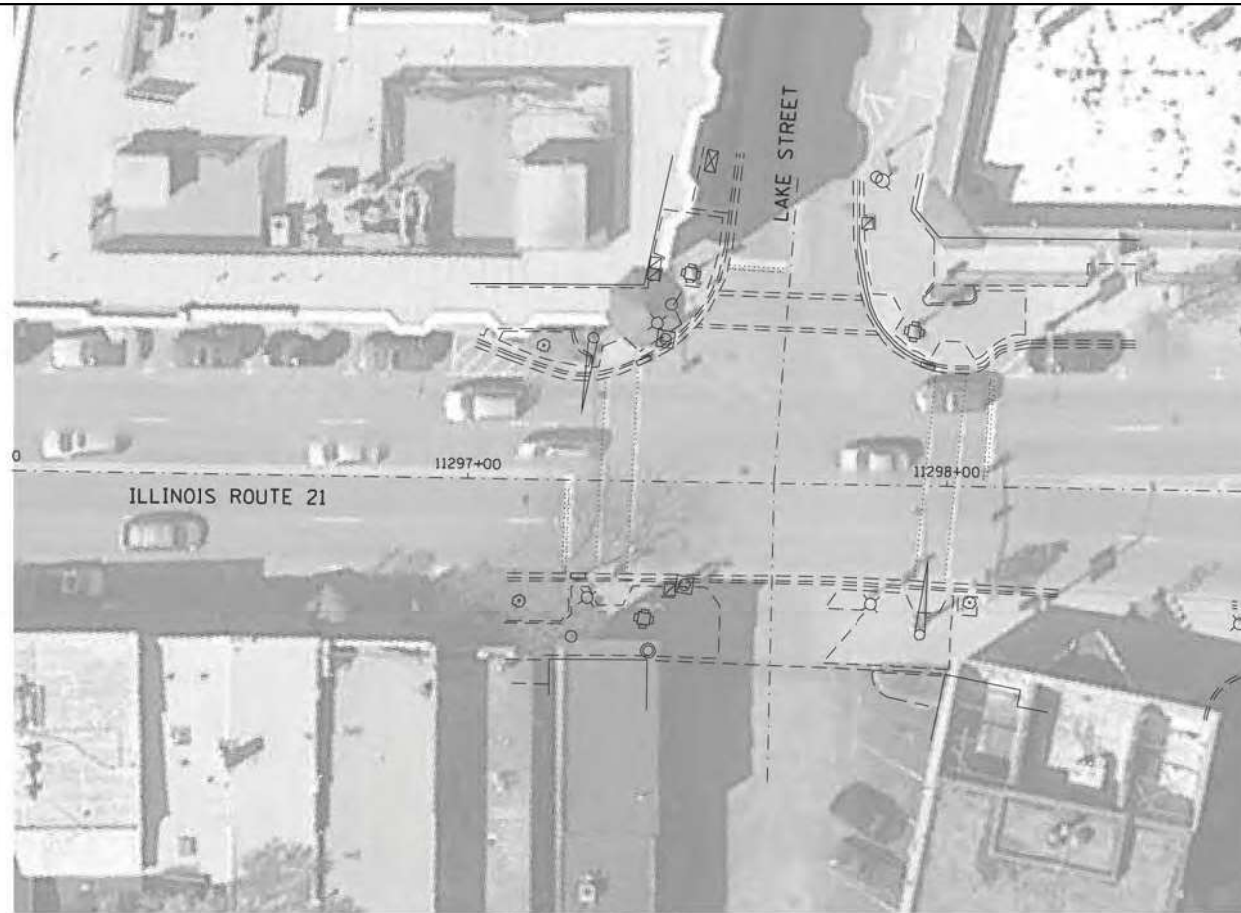
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	22
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



SOUTHWEST CORNER



SOUTHEAST CORNER



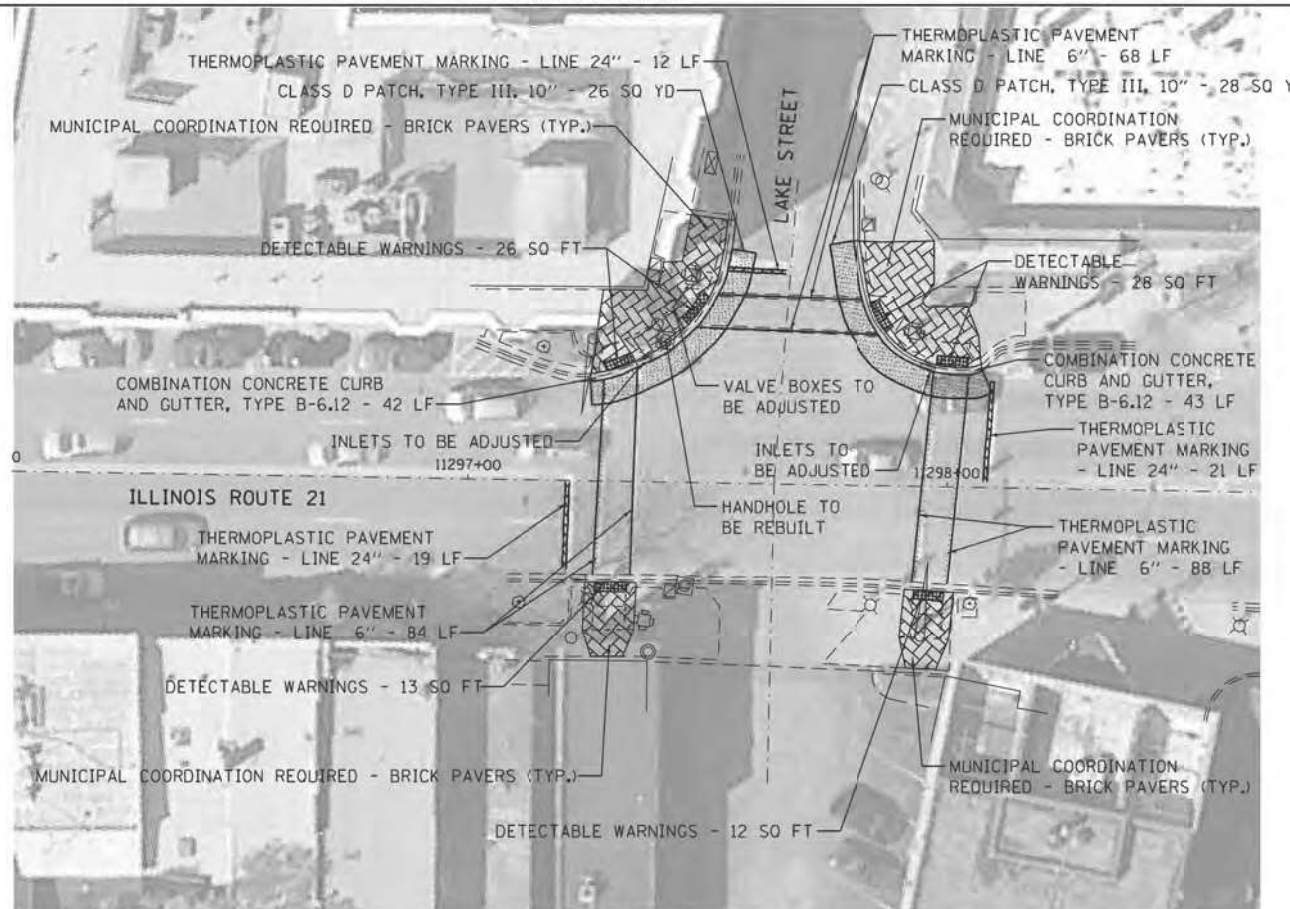
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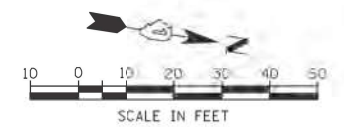
NORTHWEST CORNER



NORTHEAST CORNER



PROPOSED



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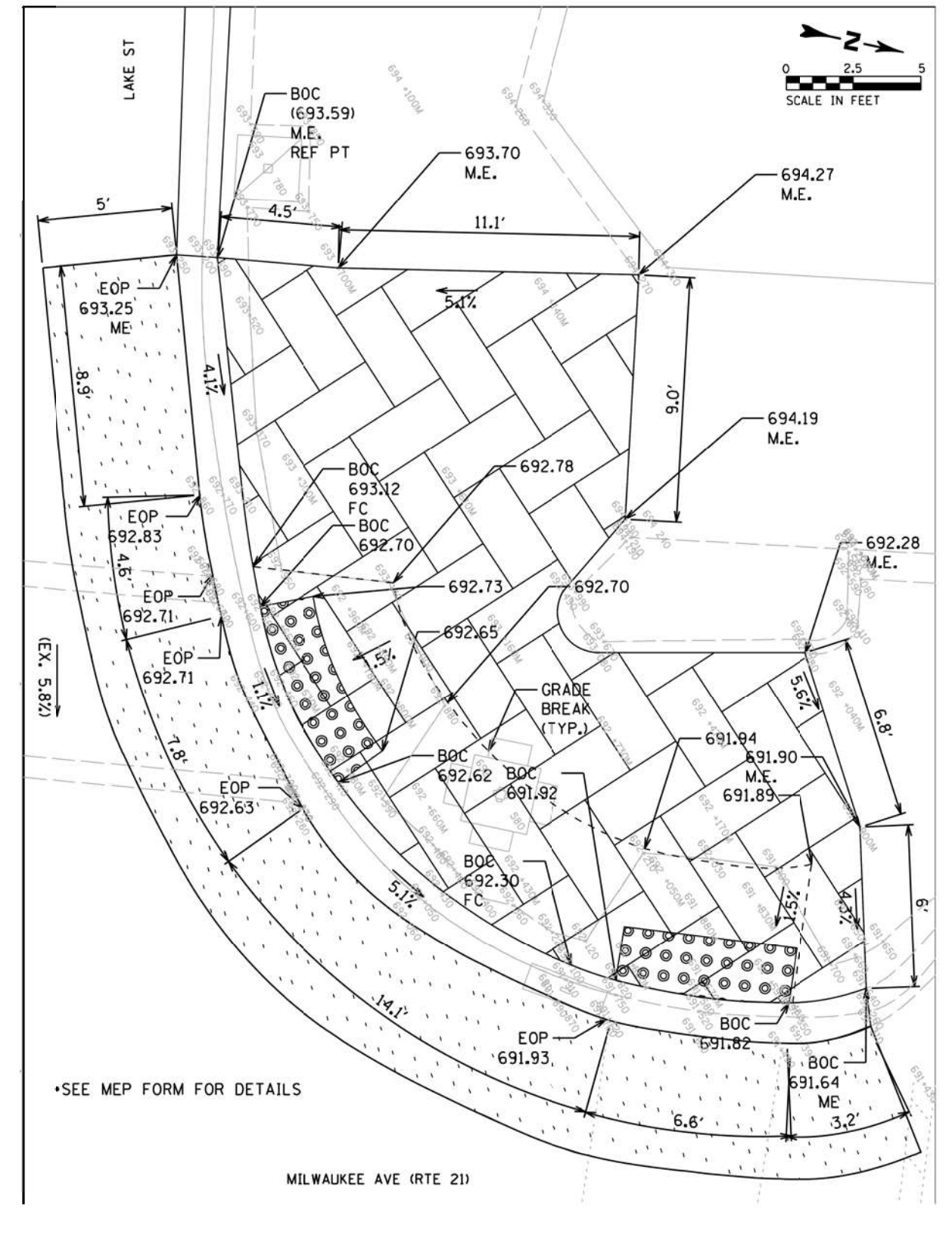
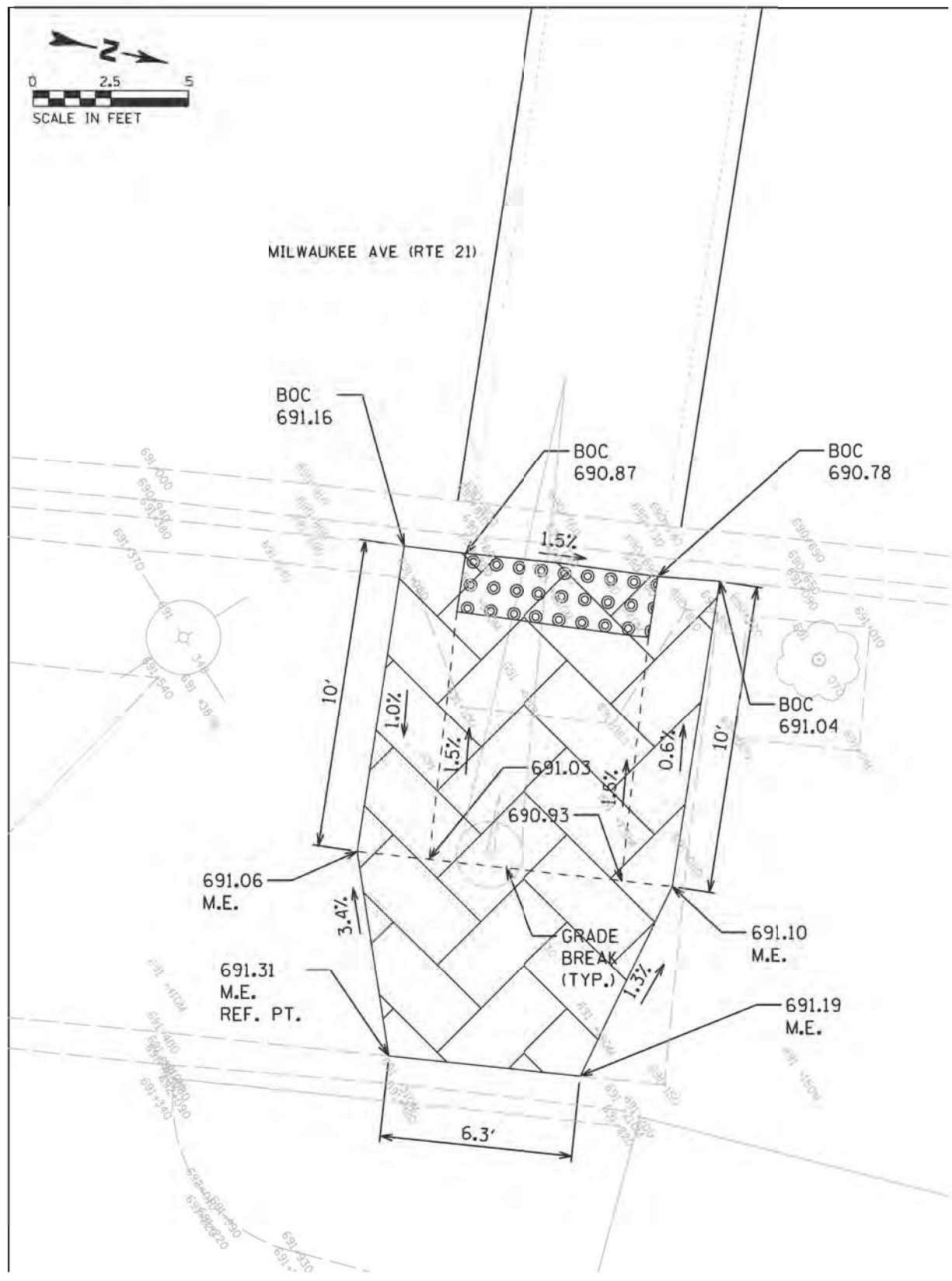
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PLOT DATE = 3/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
IL 21 (MILWAUKEE AVE.) & LAKE ST.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	23
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCH MARK ELEV
 BENCHMARK :
 LOCATION :

LEGEND

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

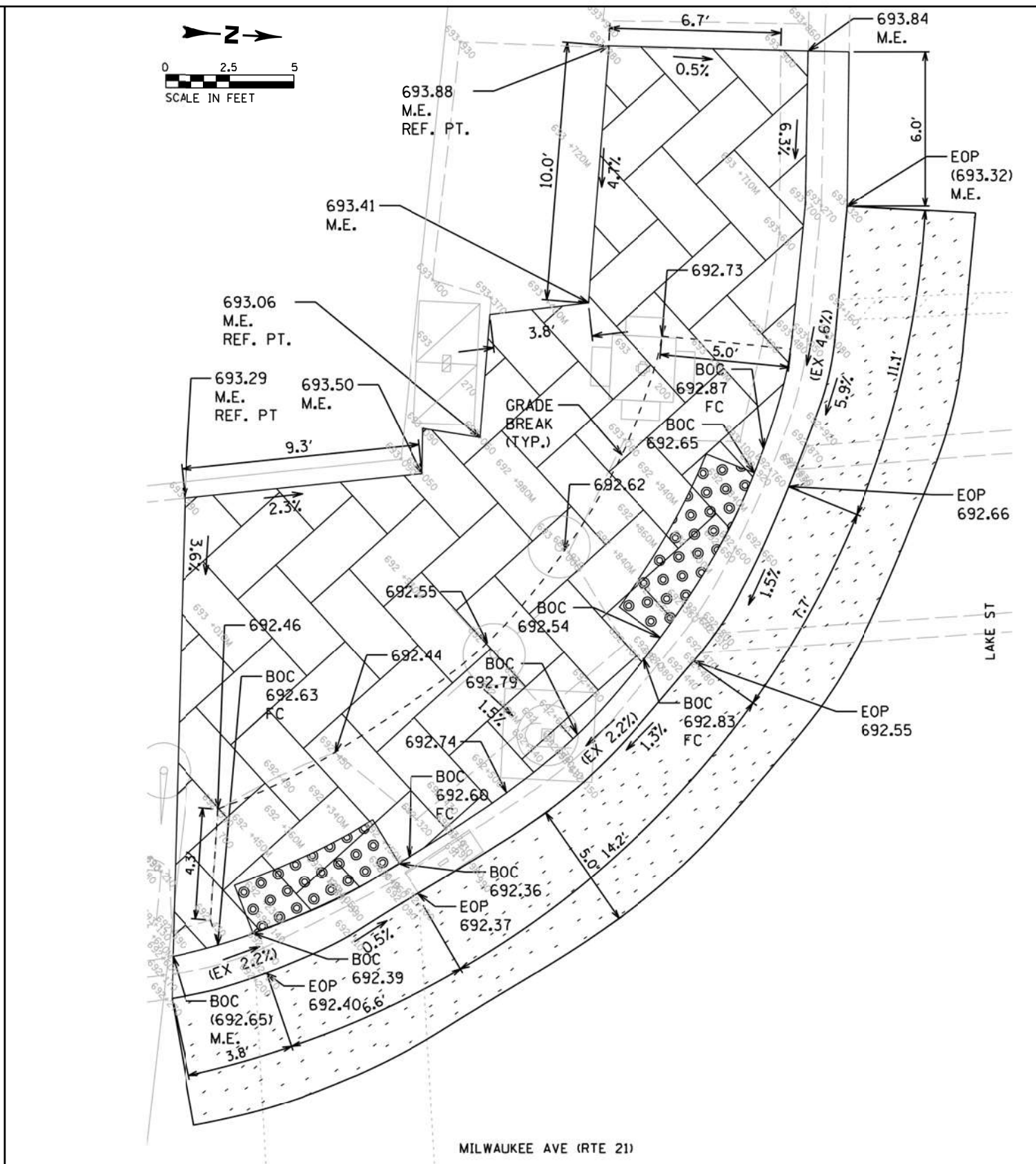
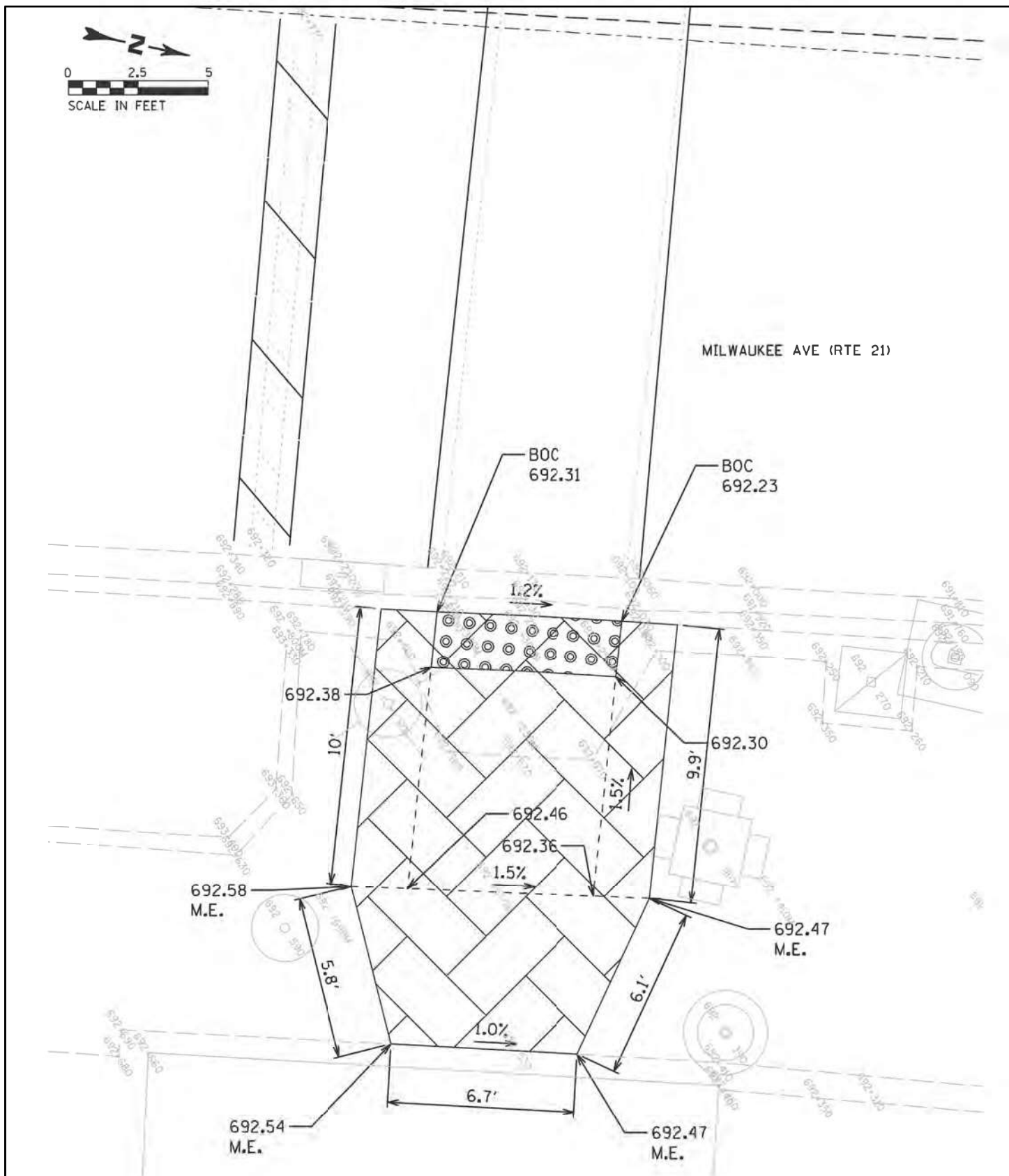
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	PLOT DATE = 3/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & LAKE ST.)
 NW & NE CORNERS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	24
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCH MARK ELEV
 BENCHMARK :
 LOCATION :

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

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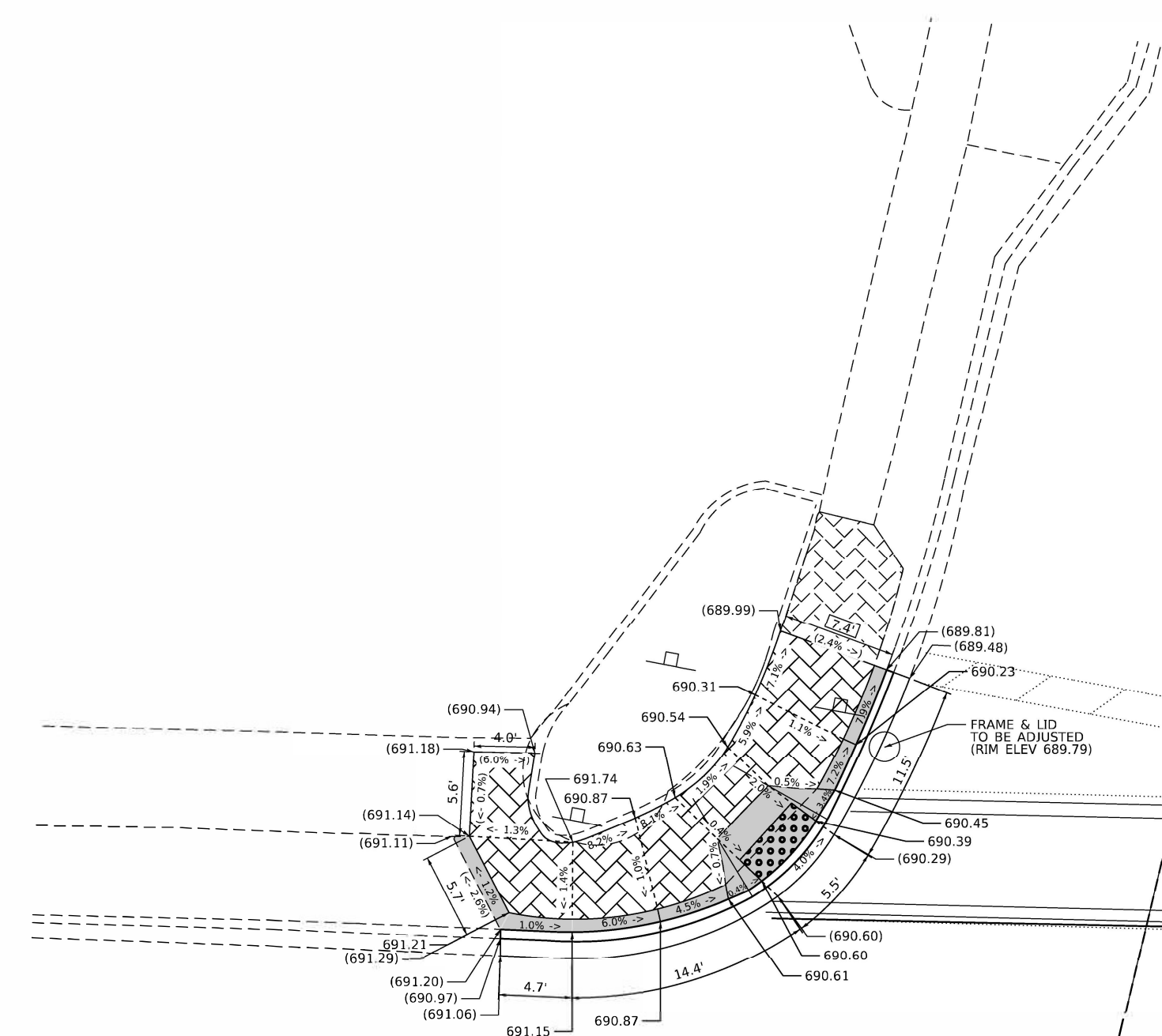
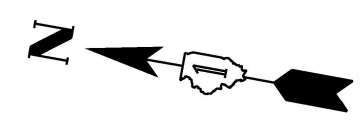
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & LAKE ST.)
 SW & SE CORNERS**

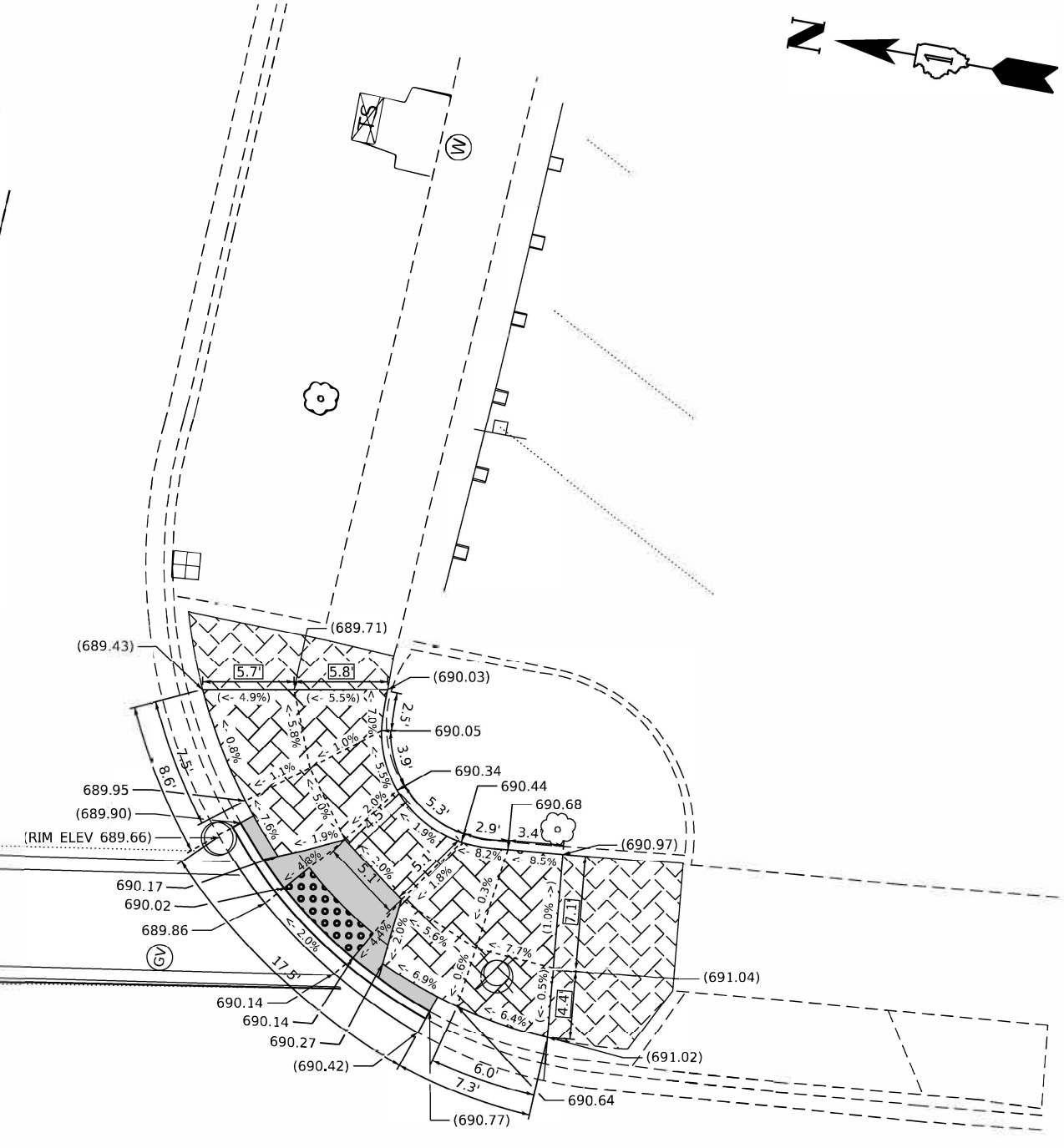
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F.A.P. RTE. 330	SECTION 2021-108-RS-SW&FL	COUNTY LAKE	TOTAL SHEETS 49	SHEET NO. 25
ILLINOIS FED. AID PROJECT				

CONTRACT NO. 62P33



NEWBERRY AVE.



ILL. RTE. 21 (MILWAUKEE AVE.)

REFERENCE BENCH MARK ELEV 687.607
 BENCHMARK : "SQUARE" SW CORNER 2 223
 LOCATION : SE CORNER

LEGEND

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

REFERENCE BENCH MARK ELEV 687.607
 BENCHMARK : "SQUARE" SW CORNER 2 223
 LOCATION : SE CORNER

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & NEWBERRY AVE.)
 NE & SE CORNERS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	25A
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



SOUTH



SOUTHEAST CORNER

MATCHLINE STA. 11300 + 28



EXISTING

MATCHLINE STA. 11303 + 63

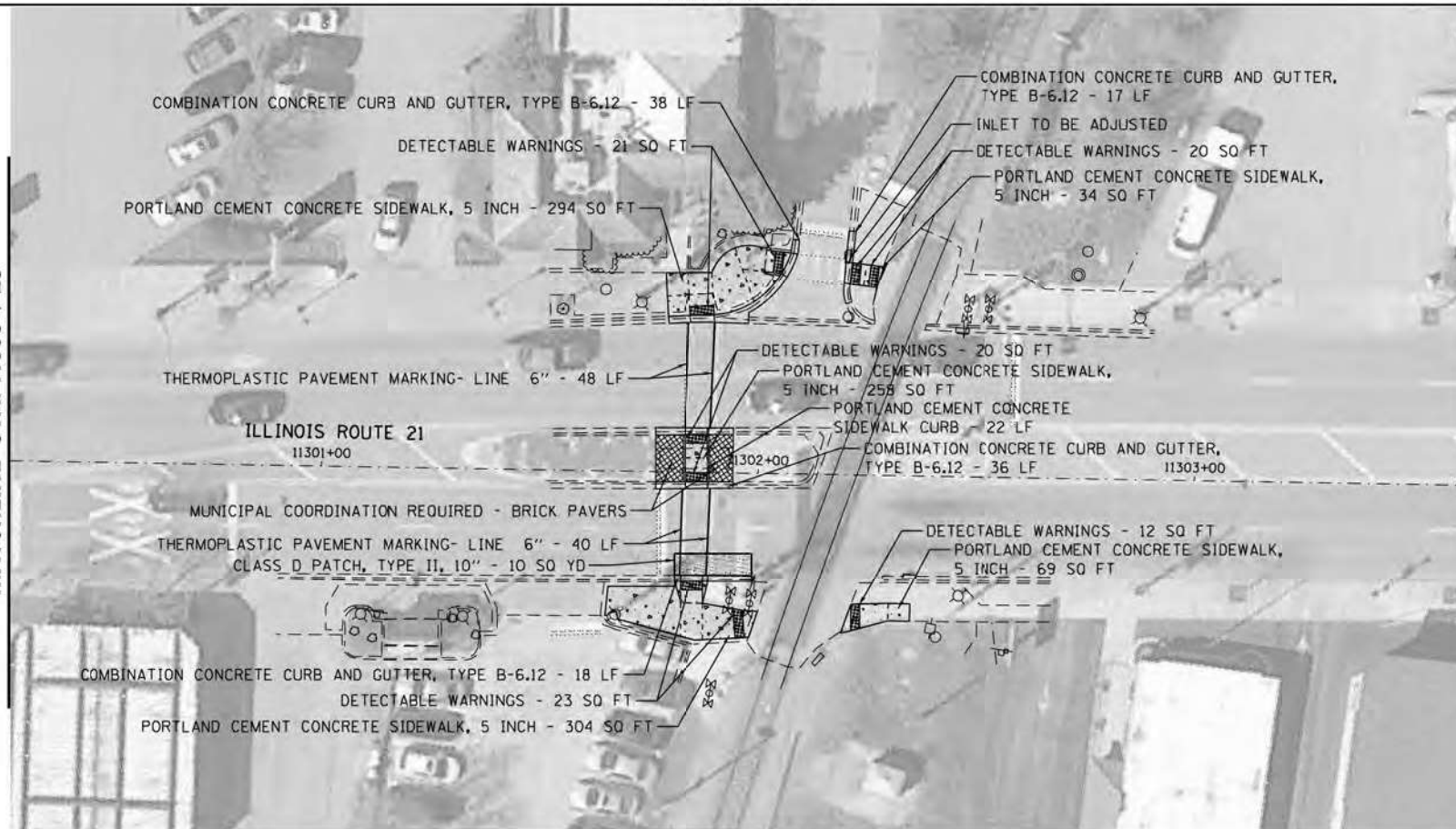


EAST



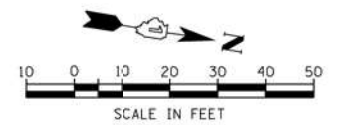
NORTHEAST CORNER

MATCHLINE STA. 11300 + 28



PROPOSED

MATCHLINE STA. 11303 + 63



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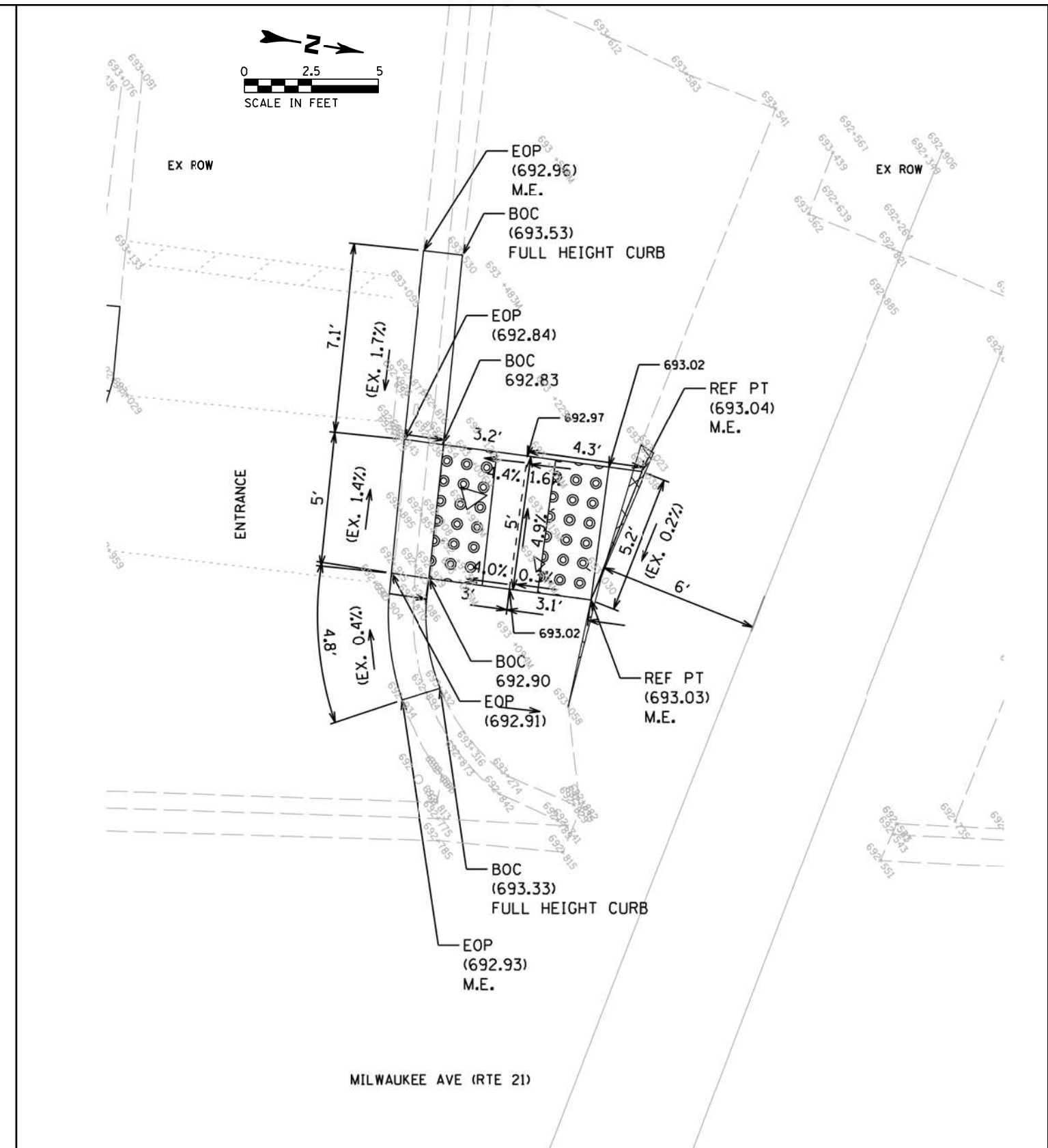
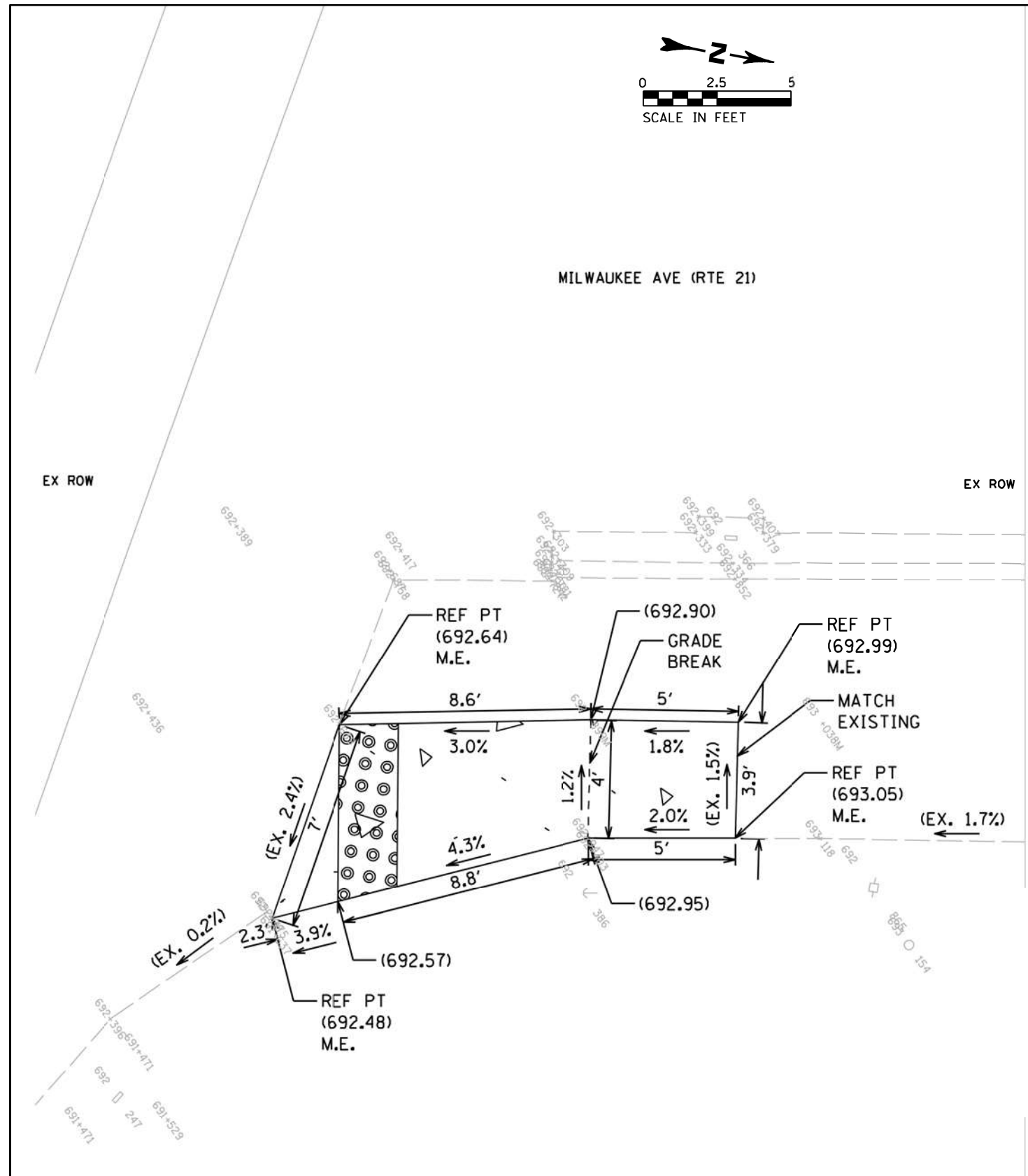
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
 IL 21 (MILWAUKEE AVE.) & METRA CROSSING**

SCALE: SHEET OF SHEETS STA. TO STA.

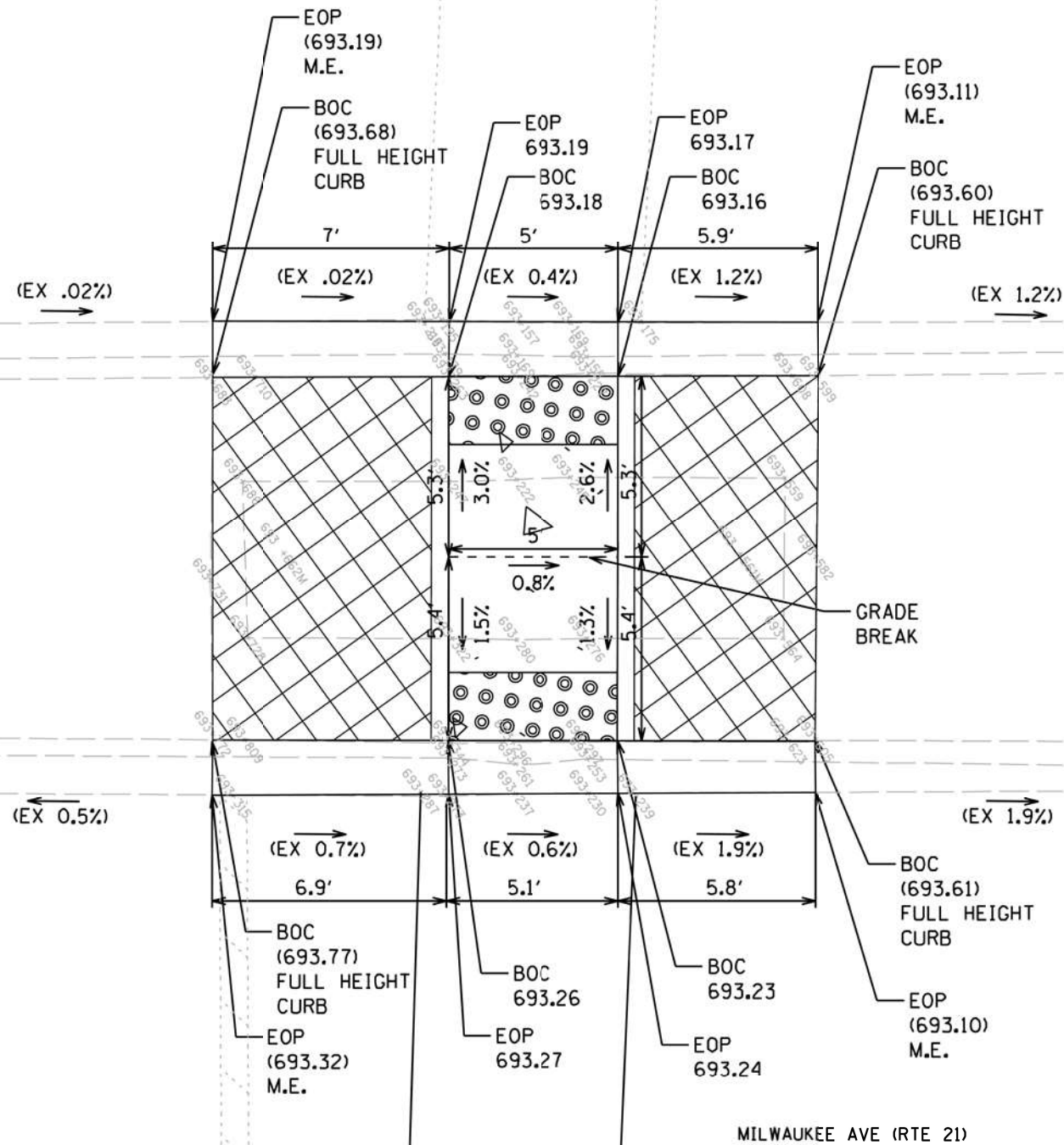
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330	2021-108-R5-SW&FL	LAKE	49	26
CONTRACT NO. 62P33				
ILLINOIS		FED. AID PROJECT		



<p>REFERENCE BENCH MARK ELEV</p> <p>BENCHMARK :</p> <p>LOCATION :</p>	<h3>LEGEND</h3> <p>xx.xx' EXISTING LENGTH</p> <p>==== PROPOSED SIDE CURB</p> <p>() EXISTING ELEVATION/SLOPE</p> <p>□ PROPOSED SIDEWALK</p> <p>◐ DETECTABLE WARNINGS</p> <p>▨ SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD</p>	
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MILWAUKEE AVE (RTE 21)



REFERENCE BENCH MARK ELEV

BENCHMARK :

LOCATION :

LEGEND



EXISTING LENGTH



PROPOSED SIDE CURB



EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

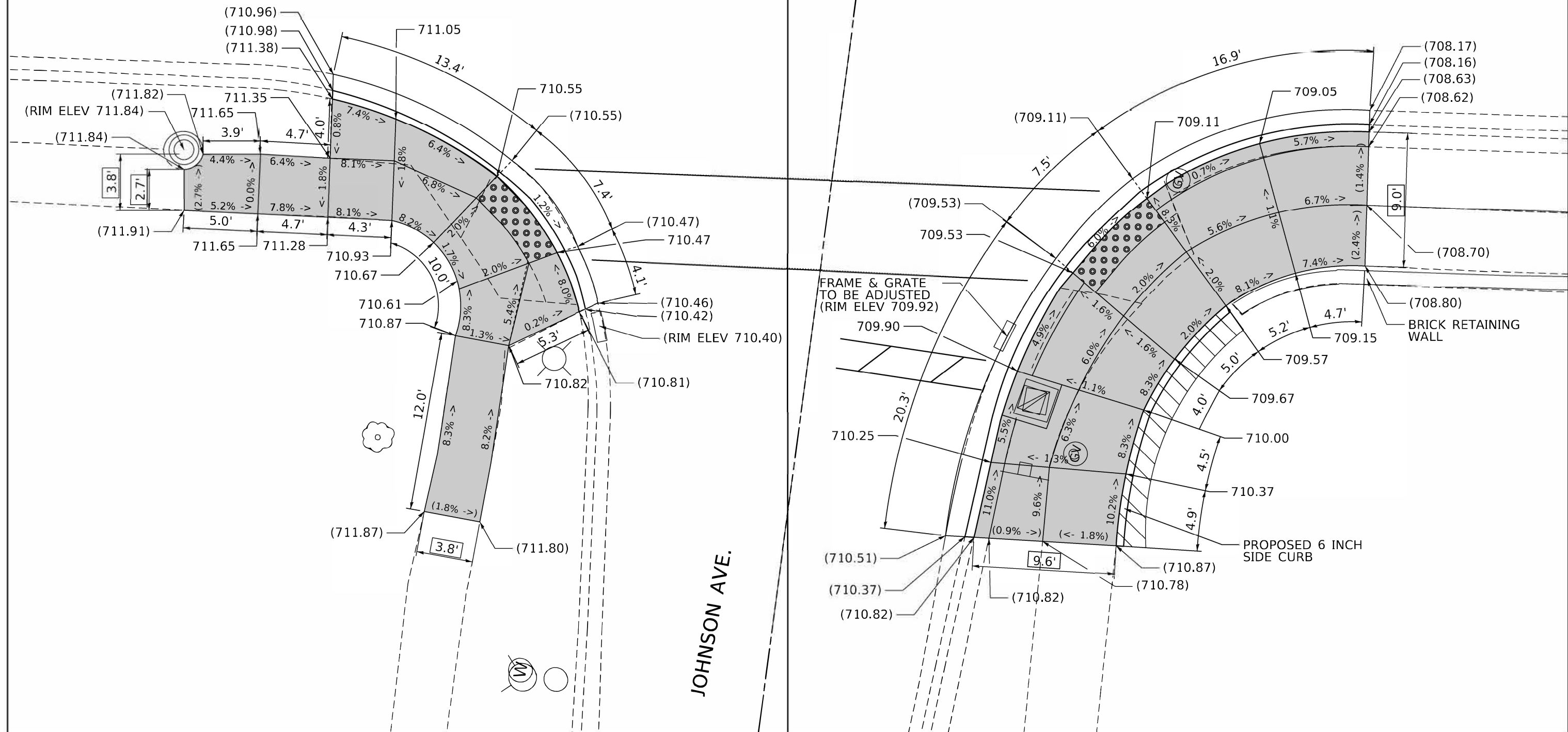
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & METRA CROSSING
MEDIAN CROSSING)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62P33	



REFERENCE BENCH MARK ELEV 712.0567
 BENCHMARK : "SQUARE" SE SQUARE CORNER @ TCB
 LOCATION : NW CORNER

LEGEND

- xx.xx' EXISTING LENGTH
- PROPOSED SIDE CURB
- () EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- DRIVEWAY REMOVAL AND REPLACEMENT

REFERENCE BENCH MARK ELEV 712.0567
 BENCHMARK : "SQUARE" SE SQUARE CORNER @ TCB
 LOCATION : NW CORNER

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		DATE -	REVISED -

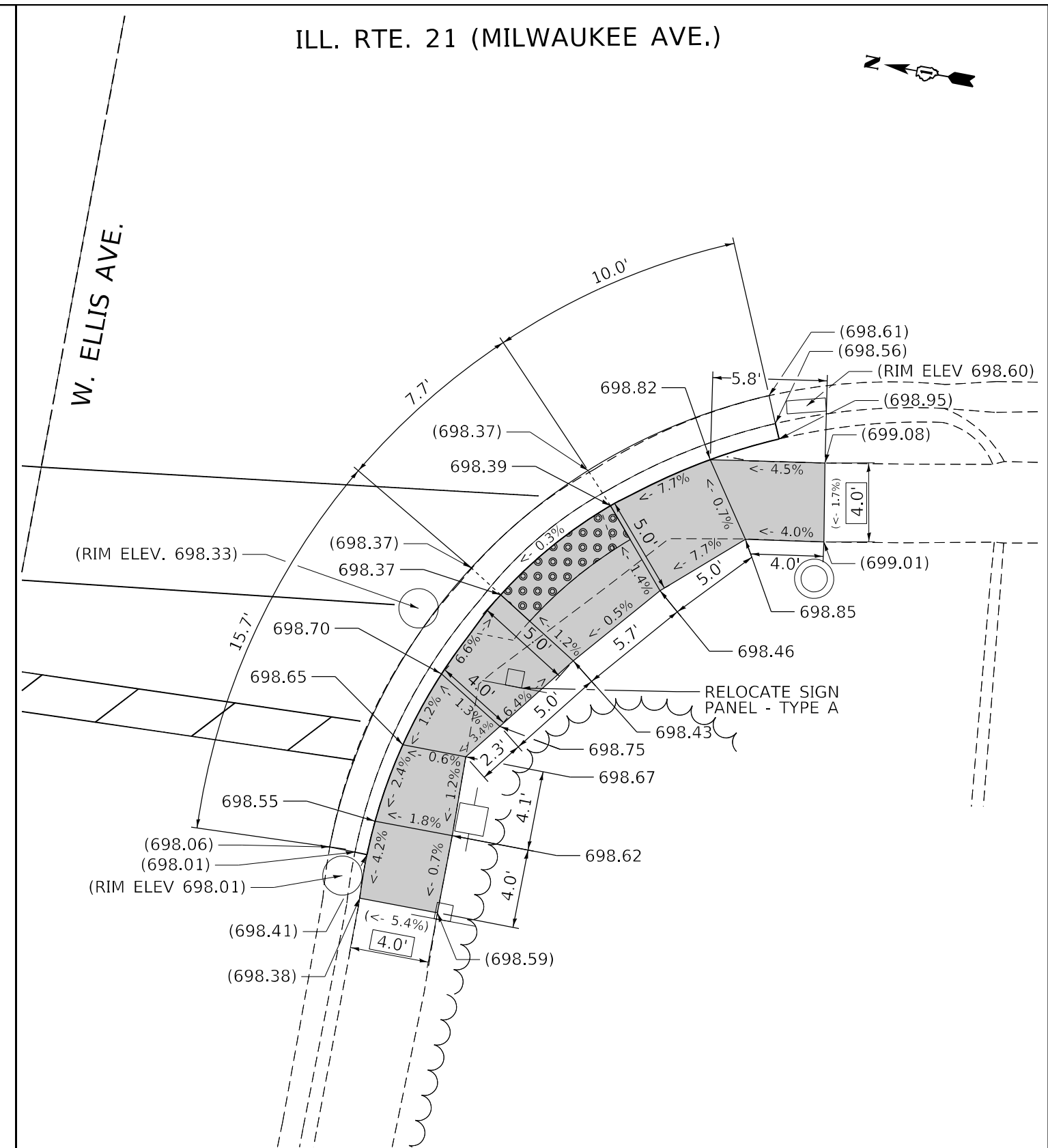
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA RAMPS DETAILS (MILWAUKEE AVE. & JOHNSON AVE.)
 NW & SW CORNERS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	29A
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				

ELLIS AVE NORTHWEST CORNER
TO BE DESIGNED PER PD-01C



REFERENCE BENCH MARK ELEV 698.08571
BENCHMARK : SPIKE
LOCATION : P. LIGHT

LEGEND

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

REFERENCE BENCH MARK ELEV 698.0857
BENCHMARK : SPIKE
LOCATION : P. LIGHT

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMPS DETAILS (MILWAUKEE AVE. & ELLIS AVE.)
NW & SW CORNER

SCALE: SHEET 1 OF SHEETS STA. TO STA.

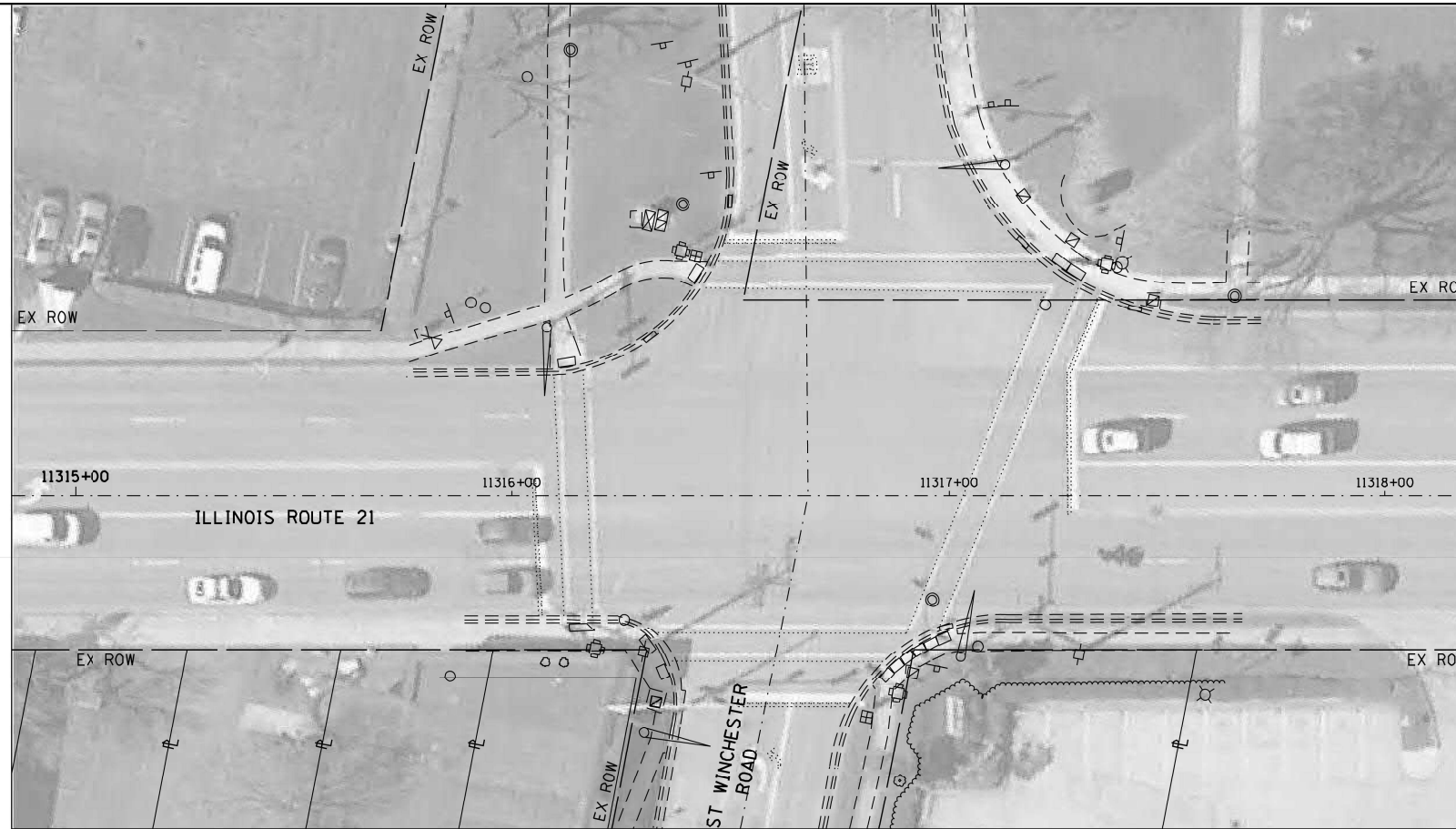
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330	2021-108-RS-SW&FL	LAKE	49	29B
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



SOUTHWEST CORNER



SOUTHEAST CORNER



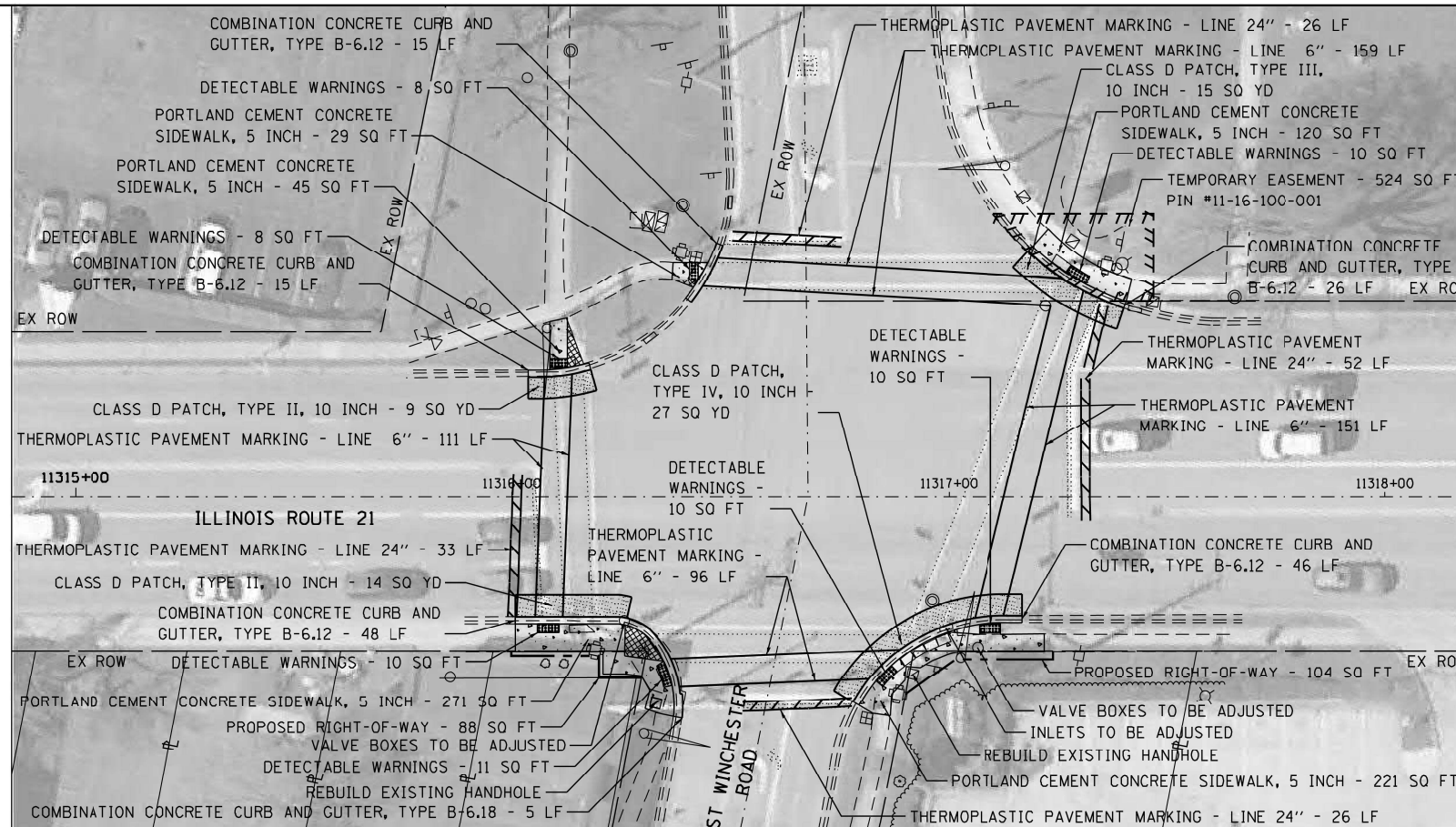
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NORTHWEST CORNER

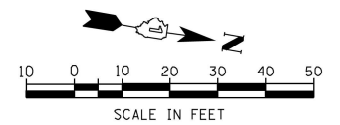


NORTHEAST CORNER



PROPOSED

NOTE: RIGHT-OF-WAY SHOWN PER AVAILABLE TAX MAPS AND ANY AVAILABLE ABOVE GROUND EVIDENCE.



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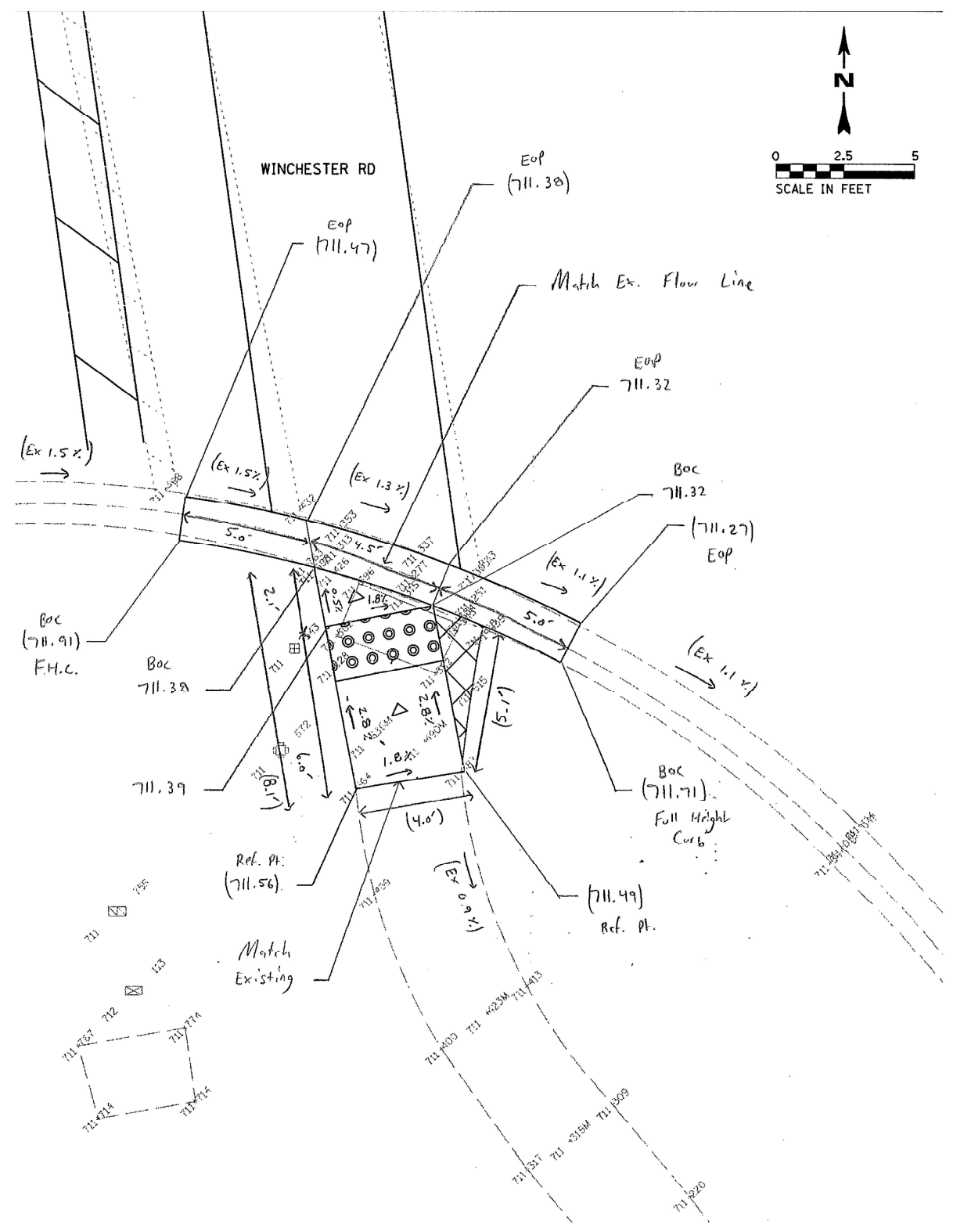
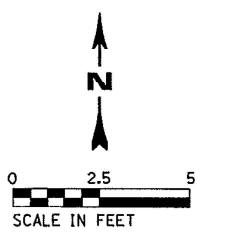
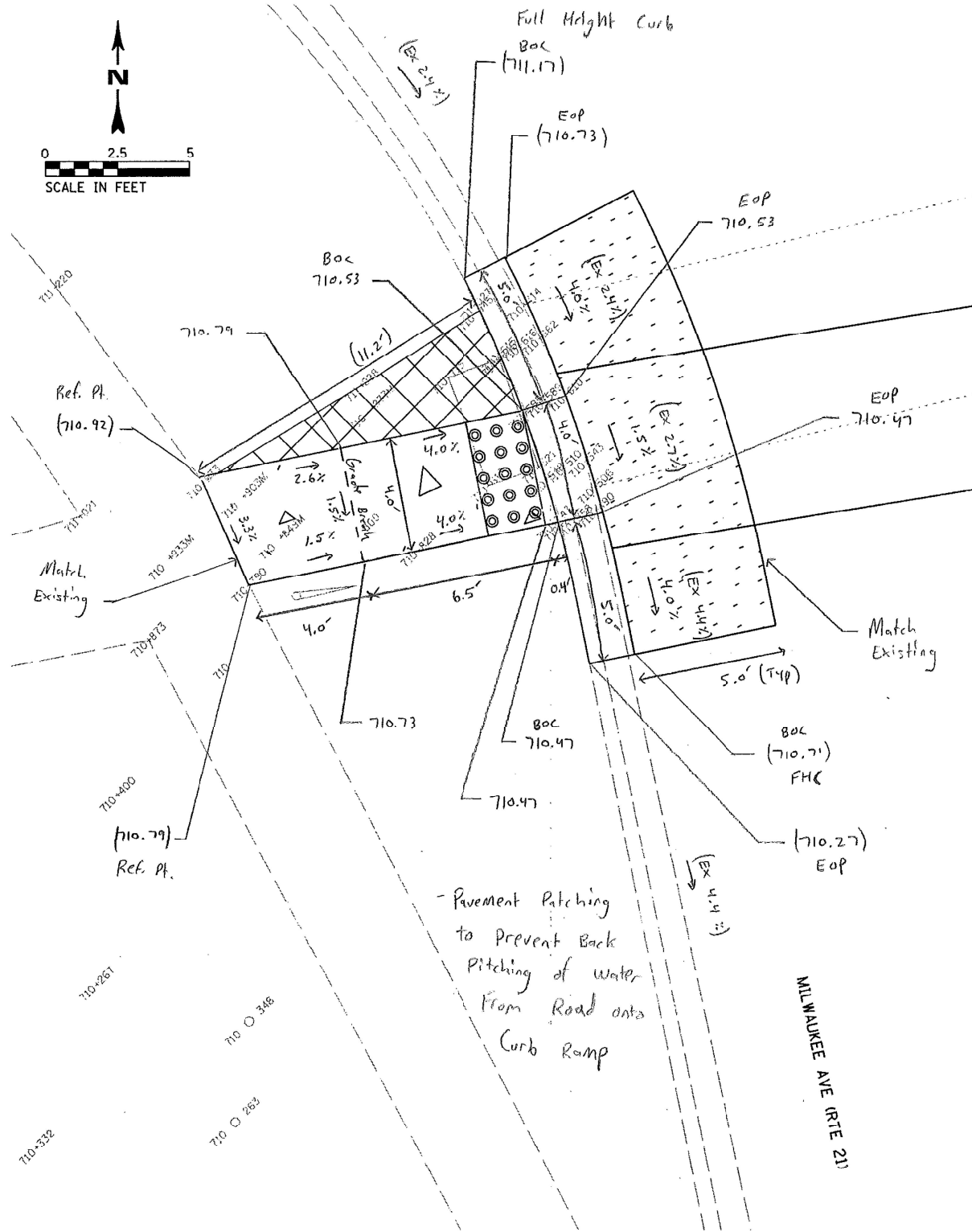
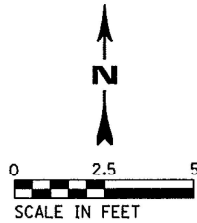
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
IL 21 (MILWAUKEE AVE) & WINCHESTER RD.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	30
CONTRACT NO. 62P33				
ILLINOIS		FED. AID PROJECT		



LEGEND

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

REFERENCE BENCH MARK ELEV

BENCHMARK :

LOCATION :

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & WINCHESTER RD.)
SE/E & SE/N CORNERS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				



SOUTHEAST CORNER



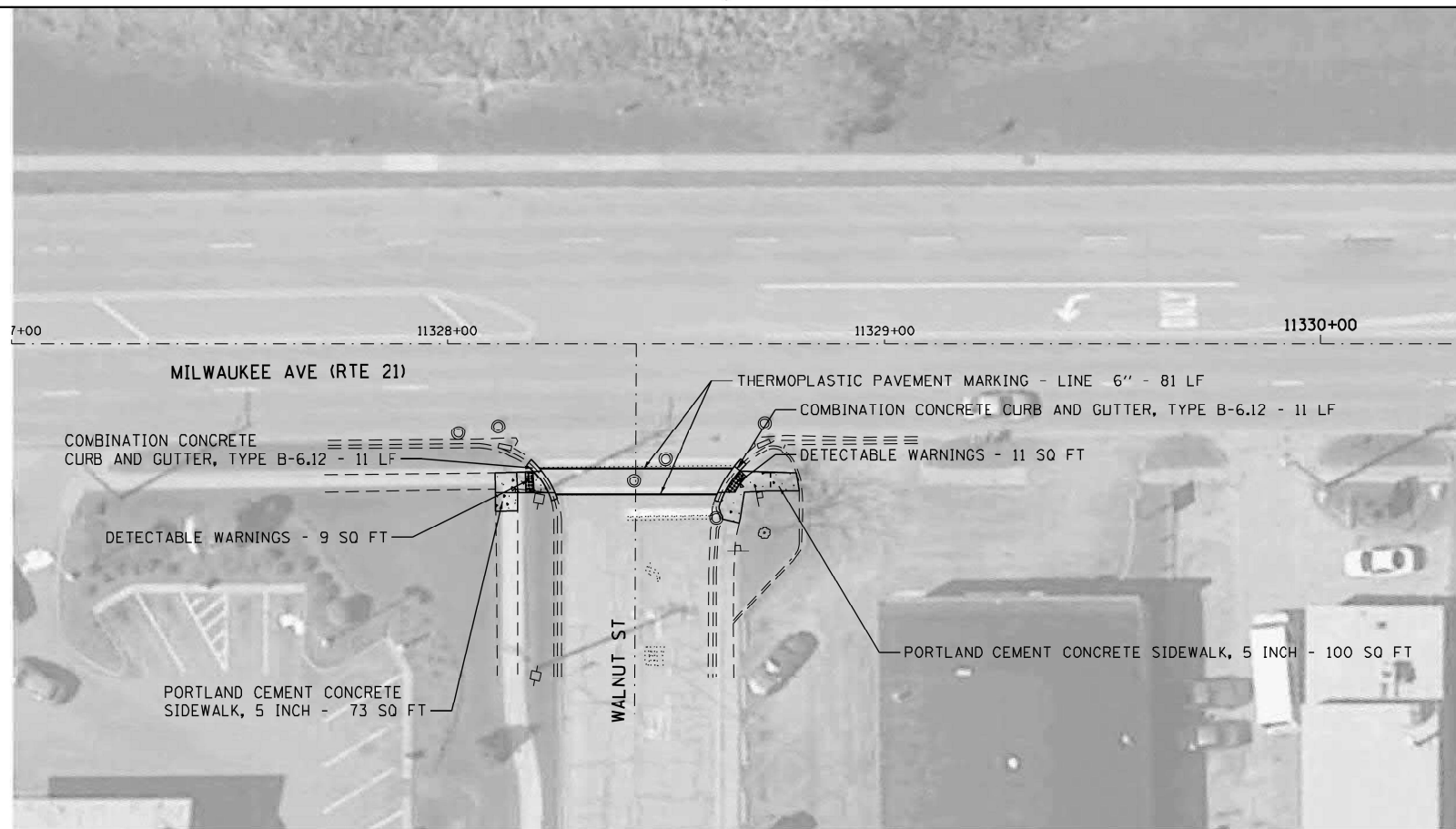
SOUTHEAST CORNER



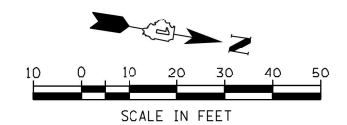
EXISTING



NORTHEAST CORNER



PROPOSED



MODEL: Default
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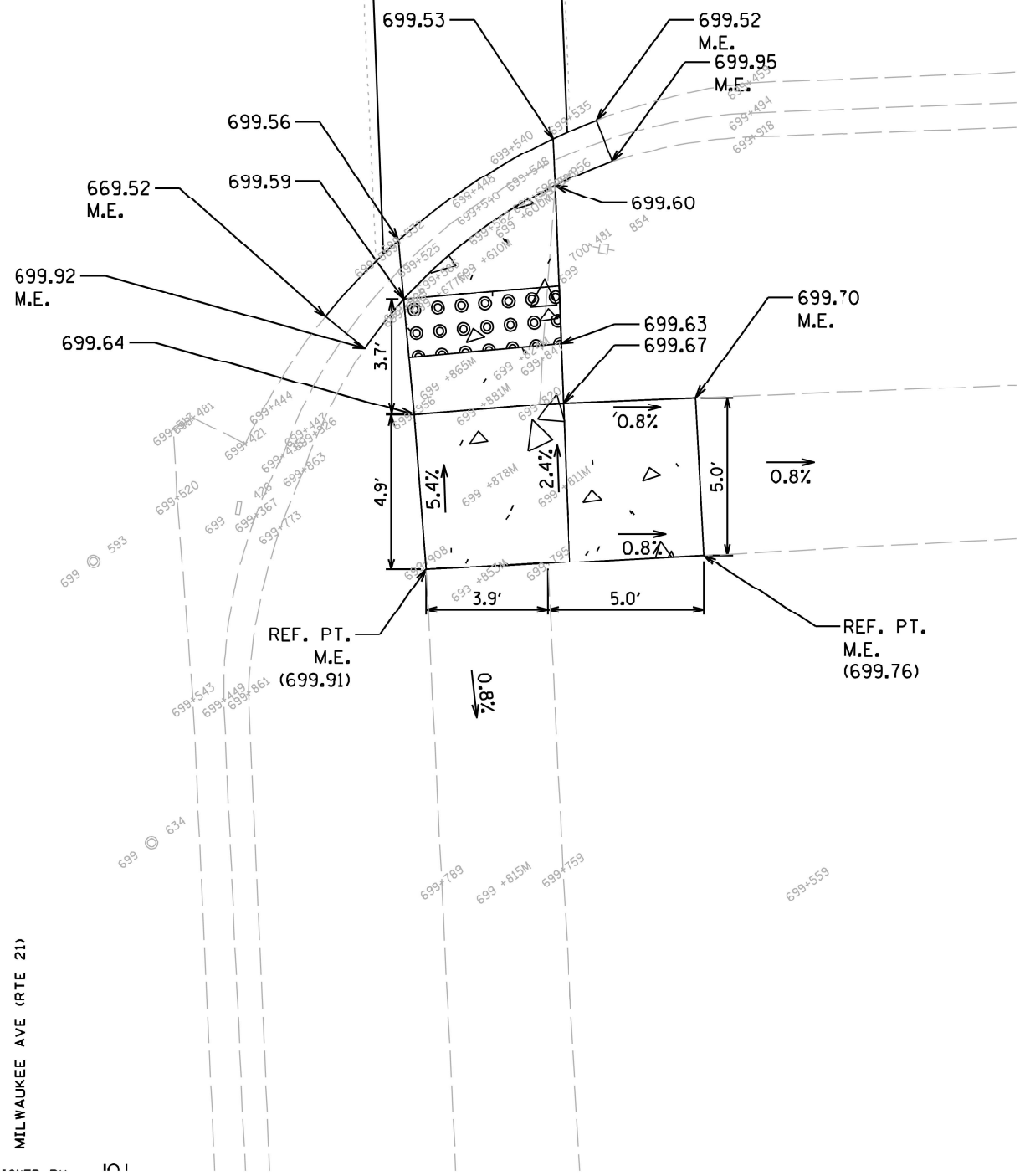
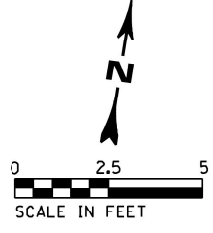
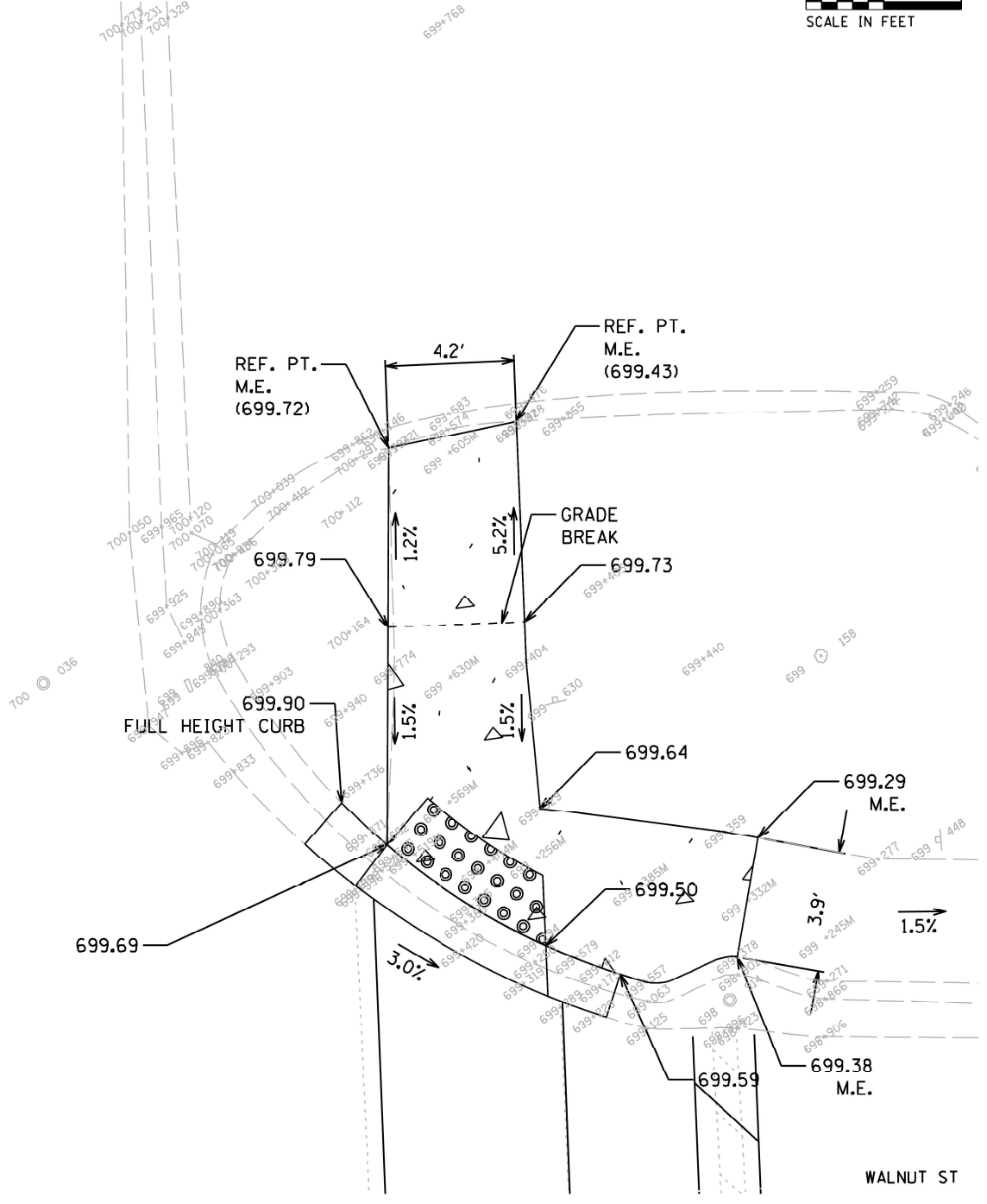
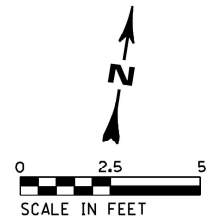
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS EXISTING AND PROPOSED PLANS
IL 21 (MILWAUKEE AVE) & WALNUT ST.**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	32
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				

MILWAUKEE AVE (RTE 21)



REFERENCE BENCH MARK ELEV

BENCHMARK :

LOCATION :

LEGEND

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & WALNUT ST.)
NE & SE CORNERS**

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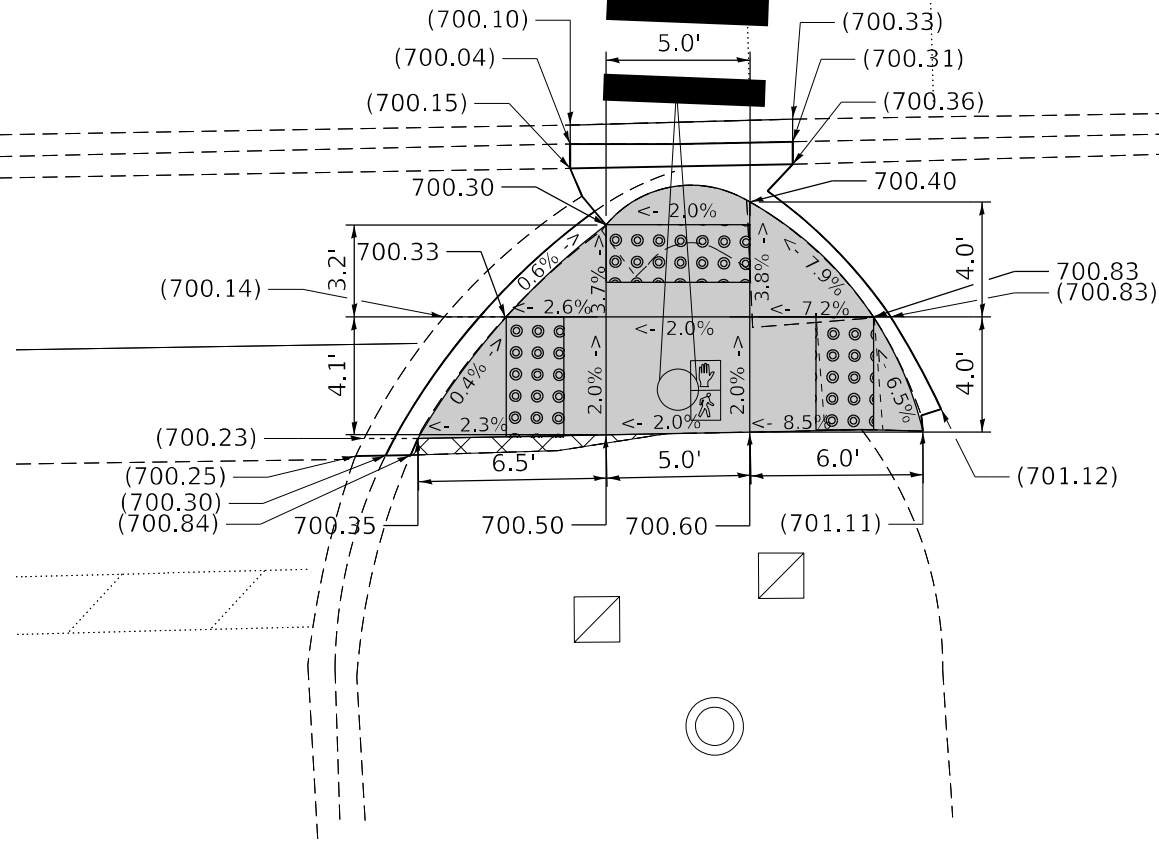
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330	2021-108-RS-SW&FL	LAKE	49	33
CONTRACT NO. 62P33				
ILLINOIS FED. AID PROJECT				

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

ILL. RTE. 21 (MILWAUKEE AVE.)



FIRE DEPARTMENT
ENTRANCE



REFERENCE BENCH MARK ELEV 700.60
BENCHMARK : "X" T.S. BASE SOUTH FACE
LOCATION : PARK ENTRANCE SE

LEGEND

xx.xx'

EXISTING LENGTH

=====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



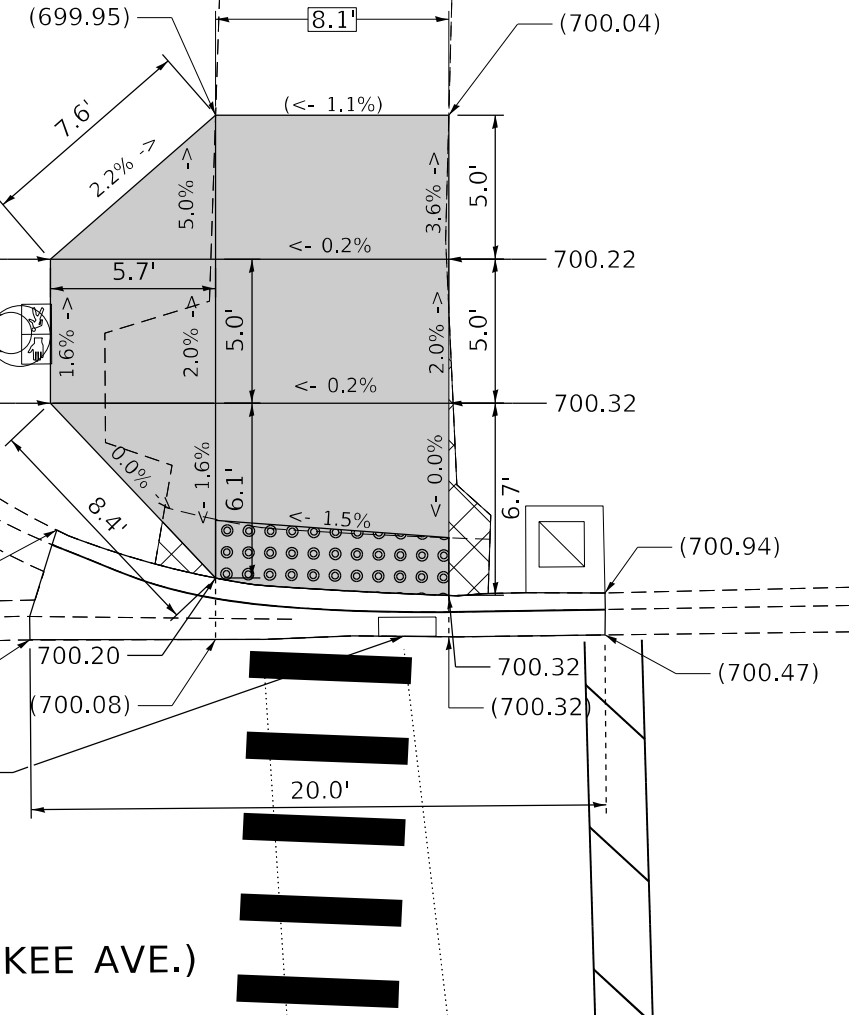
SIDEWALK REMOVAL
REPLACE W/TOPSOIL & SOD

PARK ENTRANCE



FRAME & GRATE
TO BE ADJUSTED
(RIM ELEV 700.32)

ILL. RTE. 21 (MILWAUKEE AVE.)



REFERENCE BENCH MARK ELEV 700.60
BENCHMARK : "X" T.S. BASE SOUTH FACE
LOCATION : PARK ENTRANCE SE

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMPS DETAILS (MILWAUKEE AVE. & FIRE DEPT./ADLER PARK)
SW & SE CORNERS**

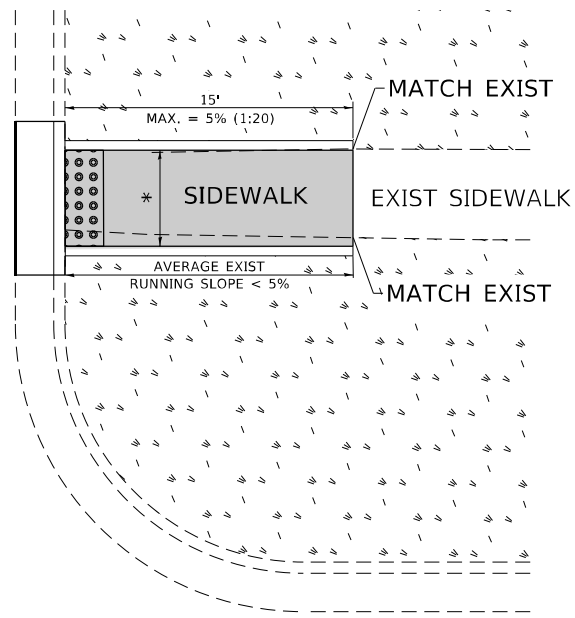
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CONTRACT NO. 62P33				

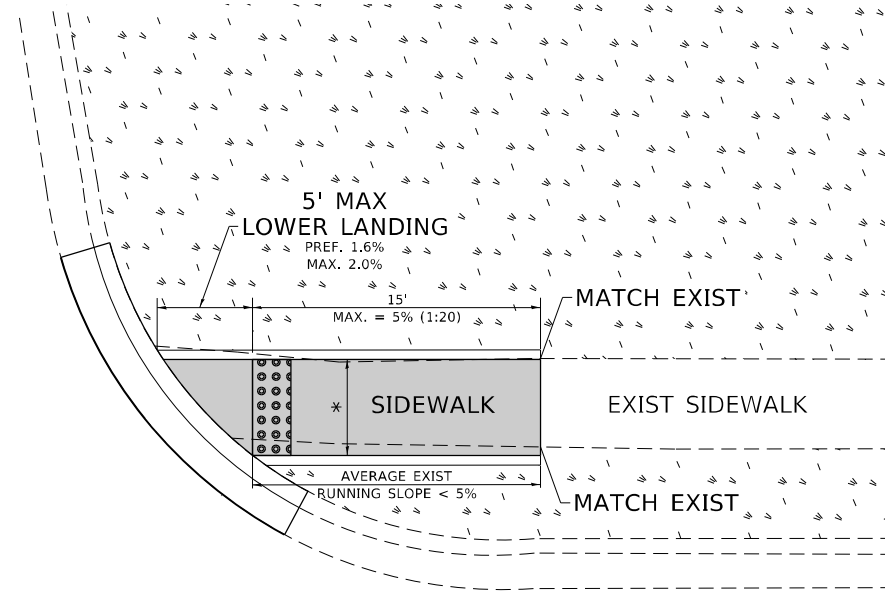
ILLINOIS FED. AID PROJECT

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR LESS RUN. SLOPE

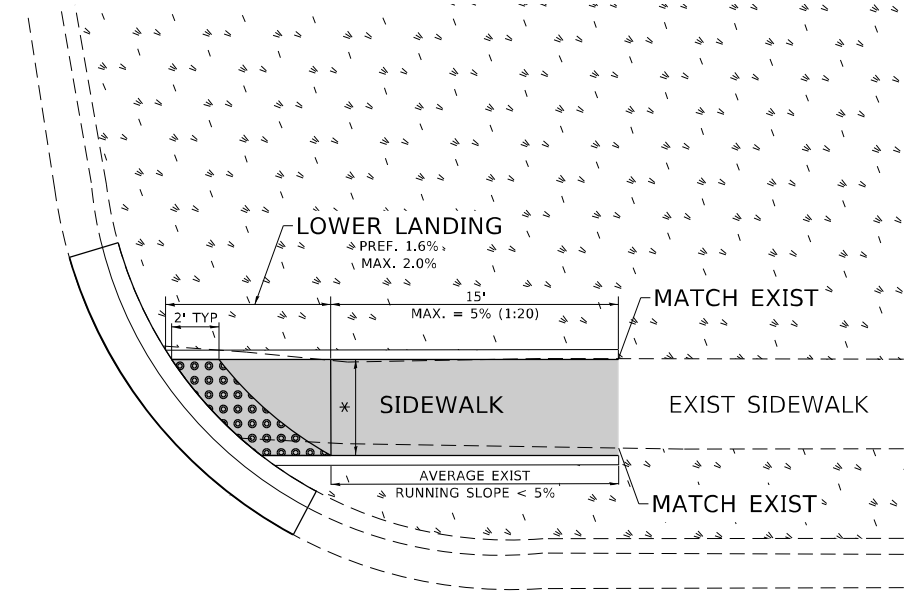
PD-01A



PD-01B



PD-01C



LEGEND

- EXIST. GRASS
- PROPOSED SIDEWALK
- PROPOSED SIDE CURB
- DETECTABLE WARNINGS

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

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	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2022	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-01)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	34
PD-01			CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, BLACK ON ORANGE; REFLECTORIZED
 "AVALABLE" D; "PARKING" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO RIGHT HAND ARROW (SHOWN) SIGNS SHALL BE PLACED:
 ONE AT THE NW CORNER OF IL 21 AND CHURCH ST. AND ONE
 AT THE NW CORNER OF IL 21 AND LAKE ST.
3. TWO LEFT HAND ARROW SIGNS SHALL BE PLACED: ONE AT
 THE SE CORNER OF IL 21 AND CHURCH ST. AND ONE AT THE
 SE CORNER OF IL 21 AND LAKE ST.
4. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".



3.0" RADIUS, 0.5" BORDER, BLACK ON ORANGE; REFLECTORIZED
 "AVAILABLE" D; "PARKING" D; BI-DIRECTIONAL ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. TWO SIGNS SHALL BE PLACED: ONE AT THE SE CORNER OF
 IL 21 AND COOK AVE. AND ONE AT THE NW CORNER OF
 IL 21 AND COOK AVE.
2. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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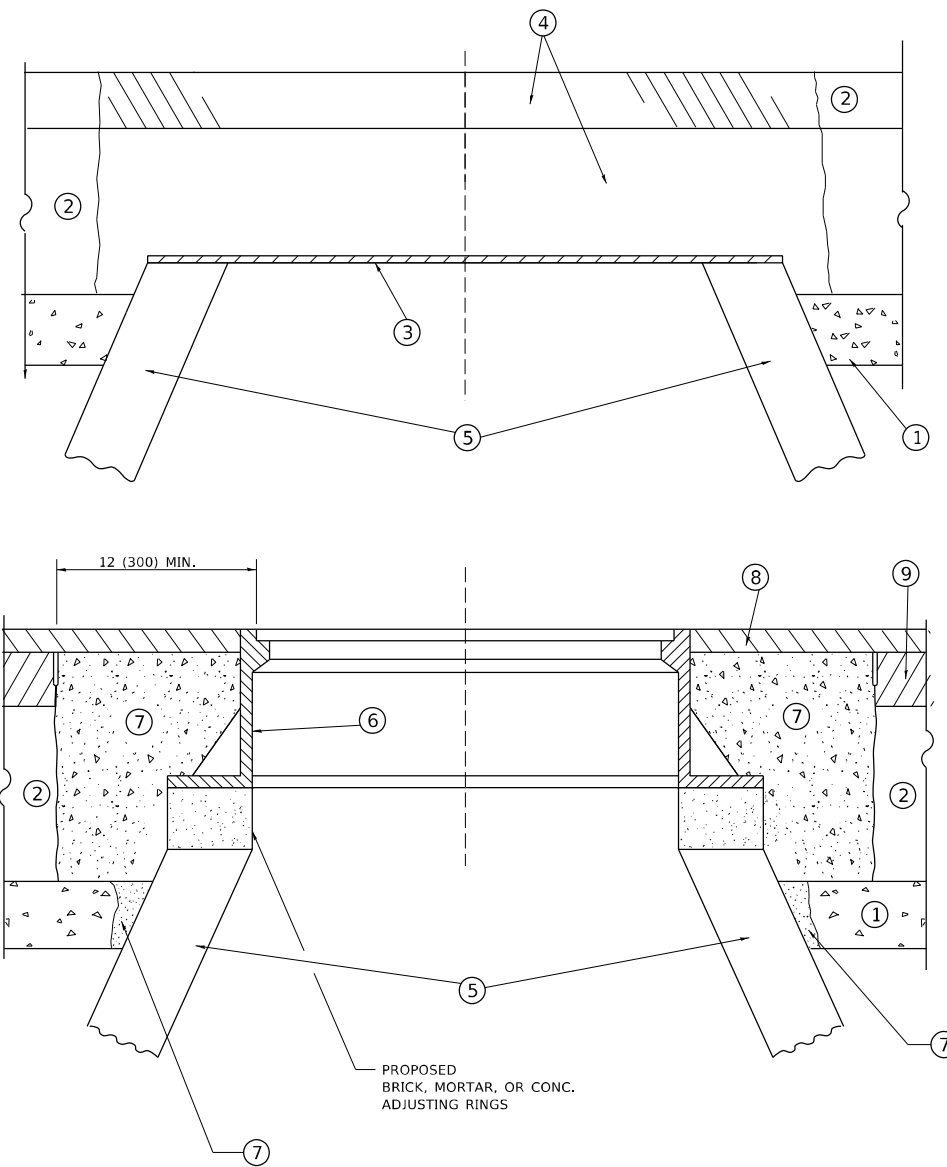
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/25/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETAIL FOR PARKING LANE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	35
CONTRACT NO. 62P33			ILLINOIS FED. AID PROJECT	



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

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

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

- 1. 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)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. 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.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

- 1. 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.
- 2. 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.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 3/23/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	F.A.P. RTE. 330	SECTION 2021-108-R5-SW&FL	COUNTY LAKE	TOTAL SHEETS 49	SHEET NO. 36
			BD600-03 (BD-08)		CONTRACT NO. 62P33		
			ILLINOIS FED. AID PROJECT				

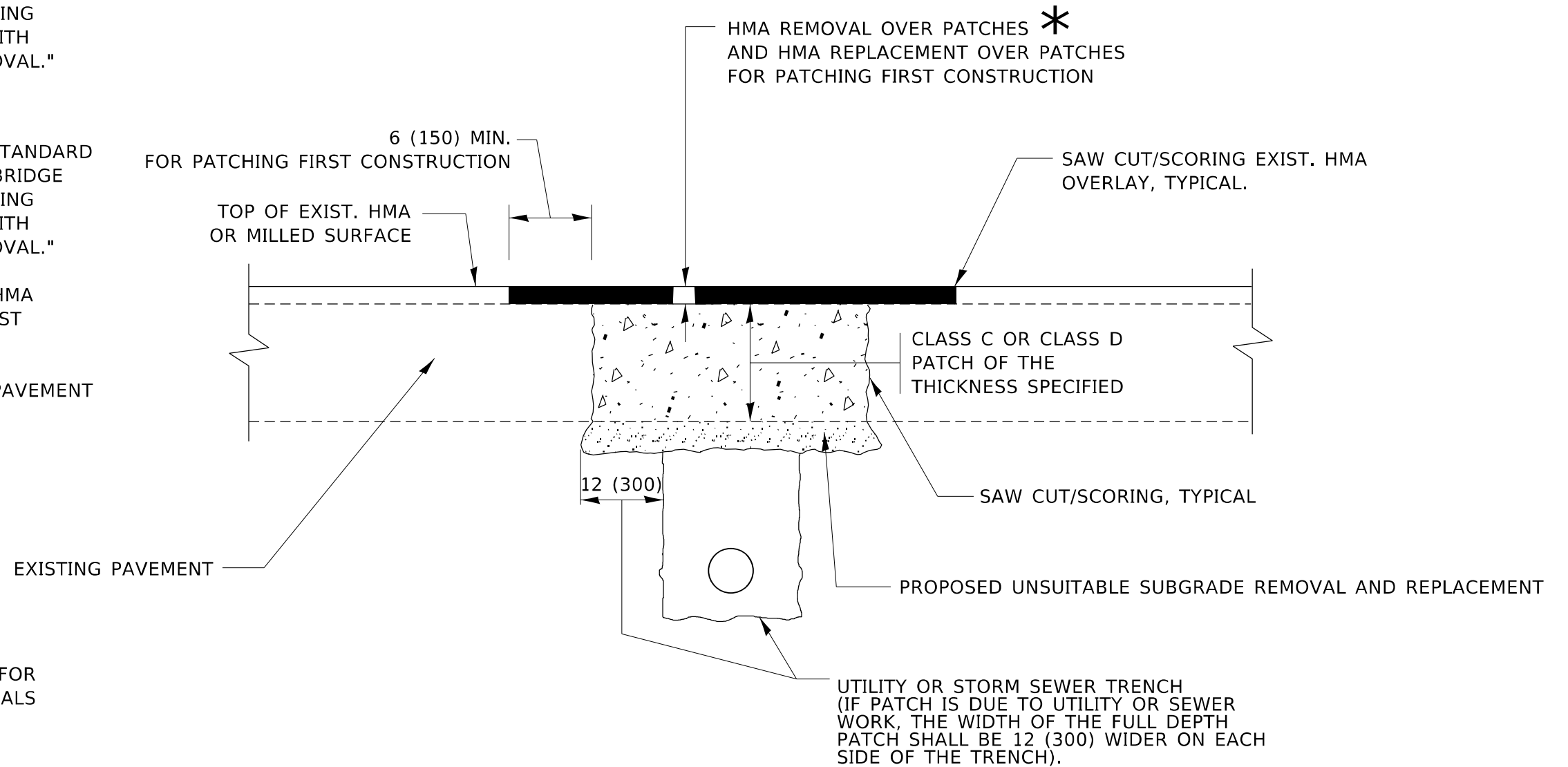
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METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

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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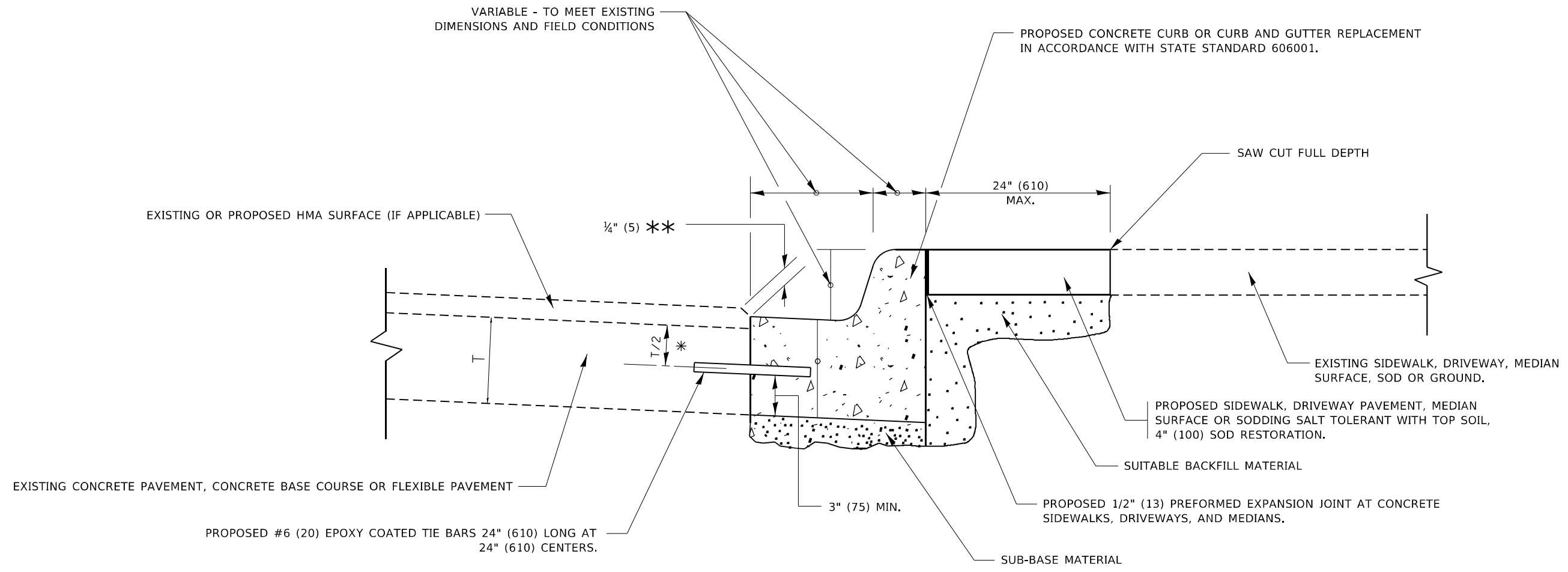
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PLOT DATE = 3/23/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	37
BD400-04 (BD-22)			CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				



- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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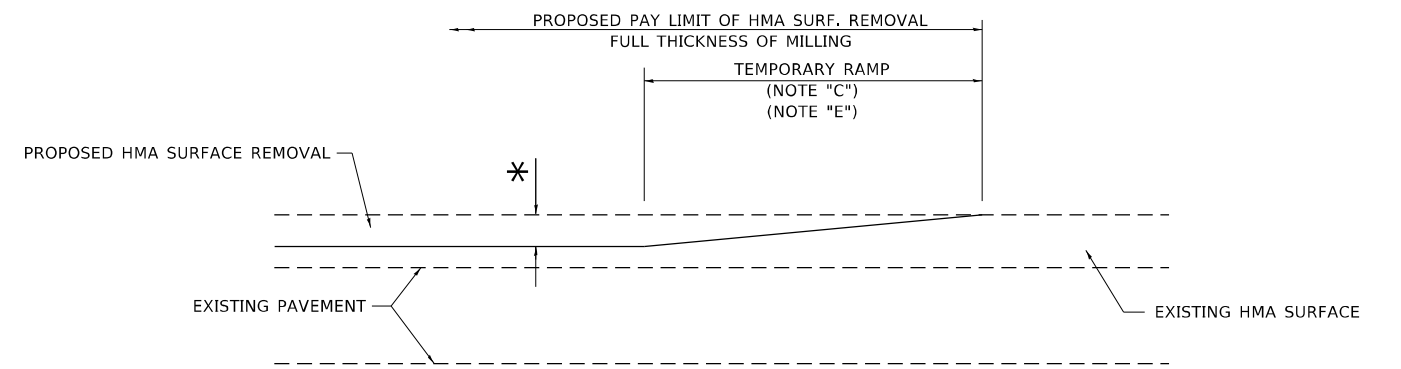
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
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PLOT DATE = 3/25/2022	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT**

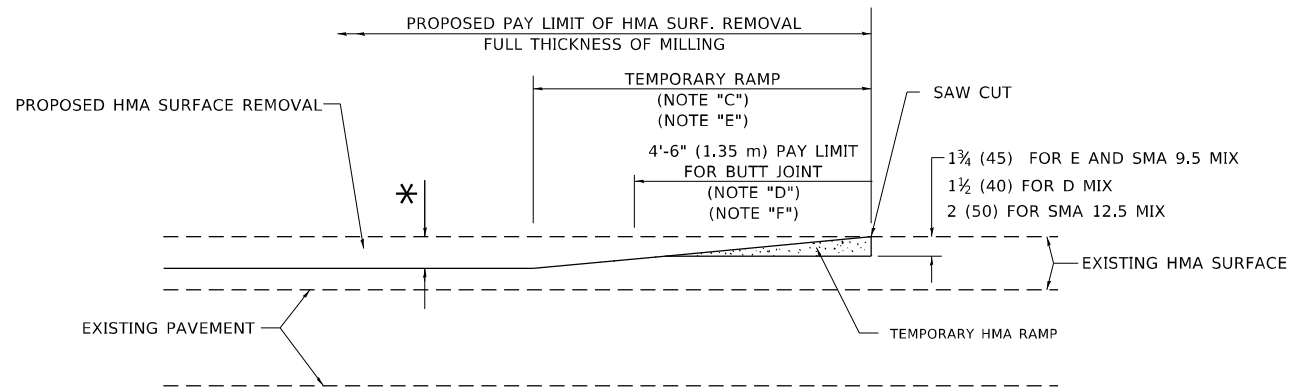
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	38
BD600-06 (BD-24)			CONTRACT NO. 62P33	
<small>ILLINOIS FED. AID PROJECT</small>				



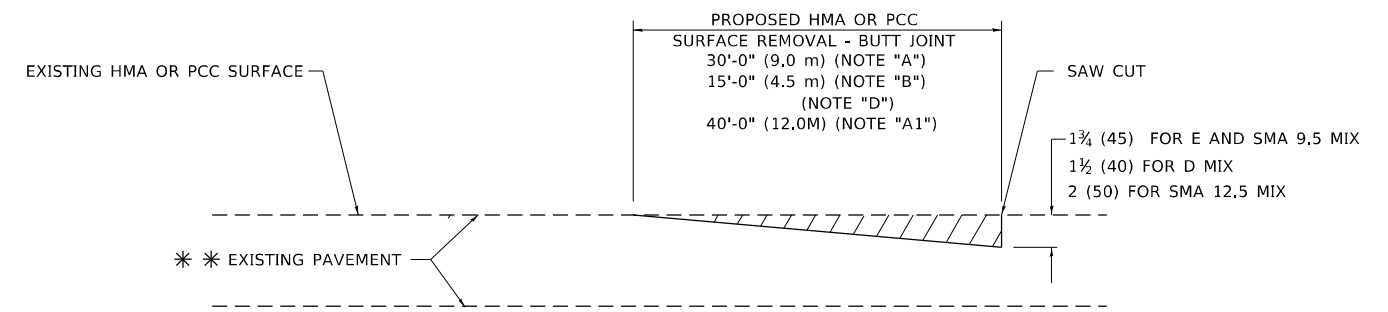
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

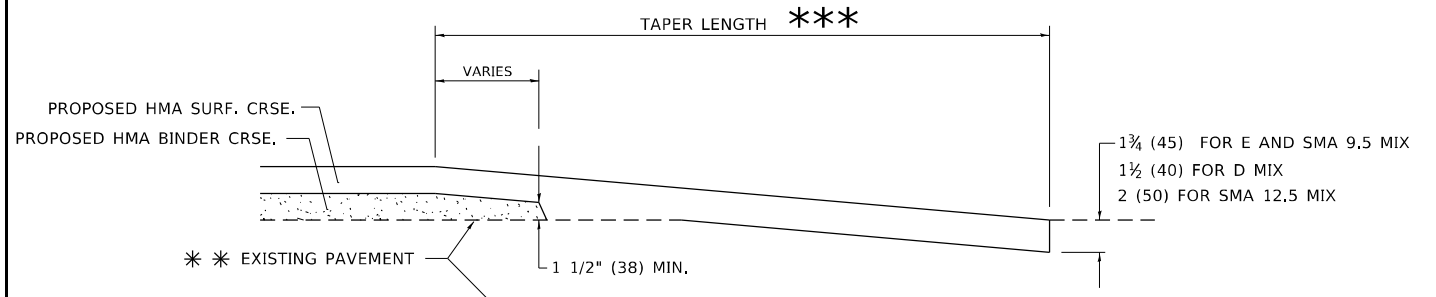


HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

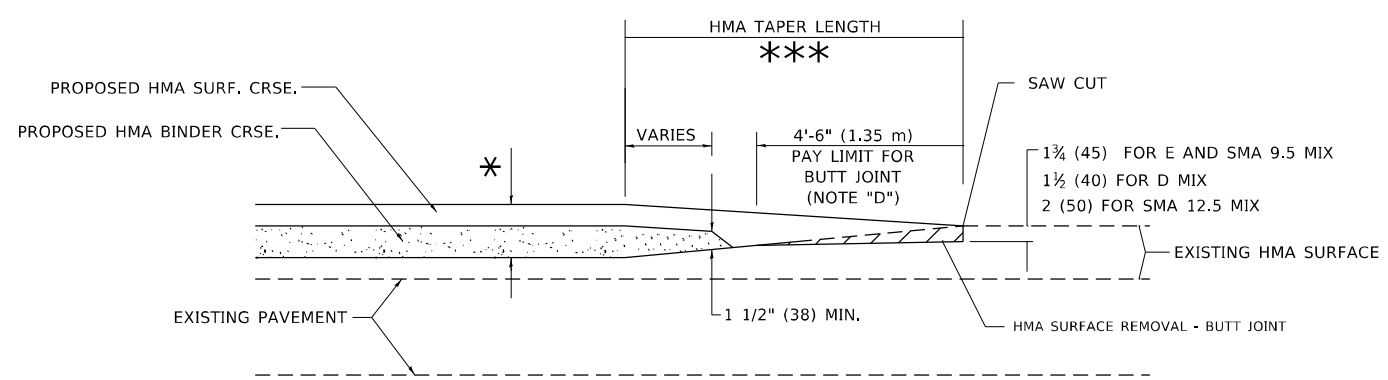
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 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

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

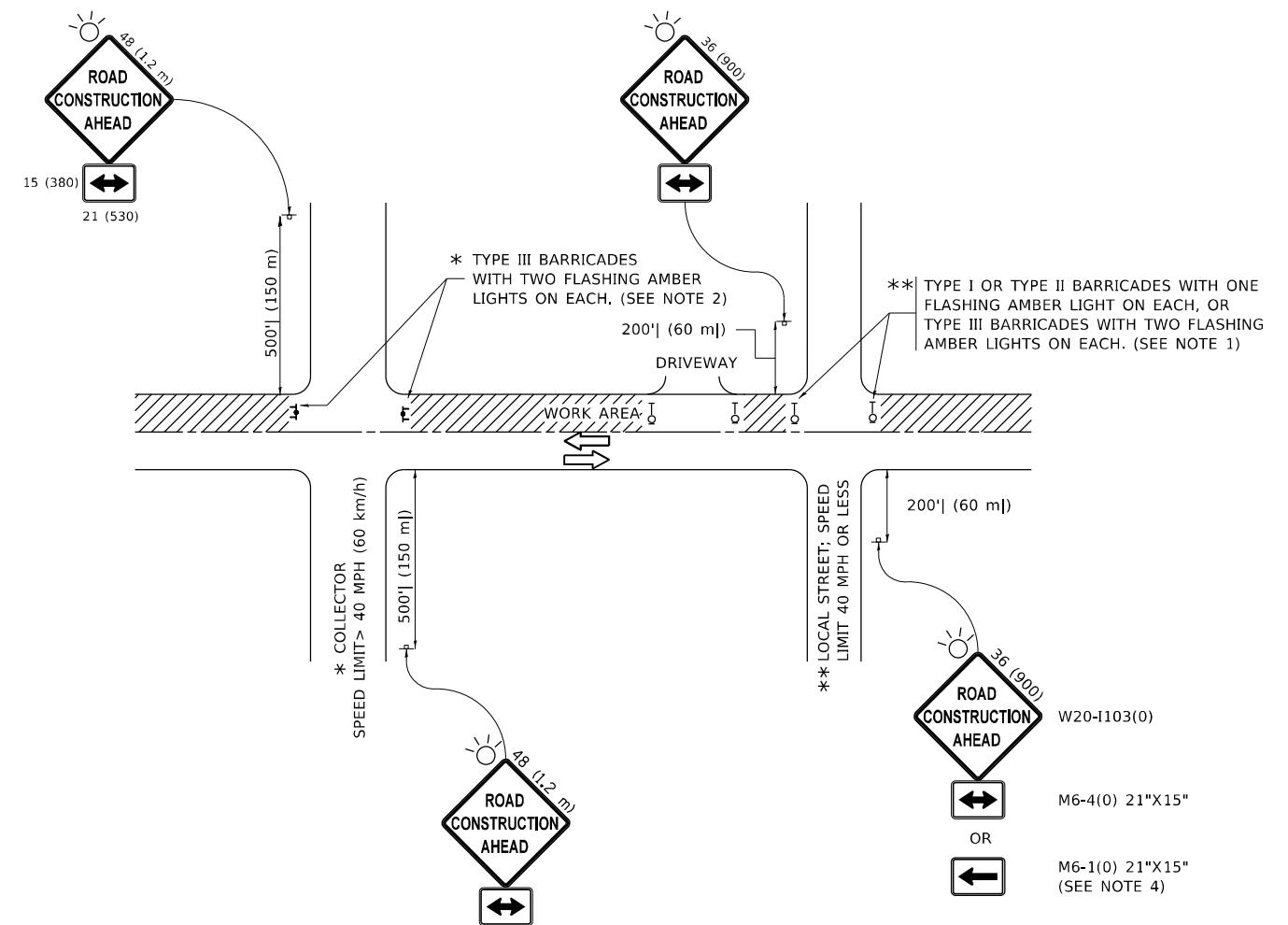
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PLOT DATE = 3/25/2022	CHECKED -	REVISED - R. BORO 01-01-07
	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS			
SCALE: NONE	SHEET 1	OF 1	SHEETS
STA.			TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	39
BD400-05		BD-32	CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- 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).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

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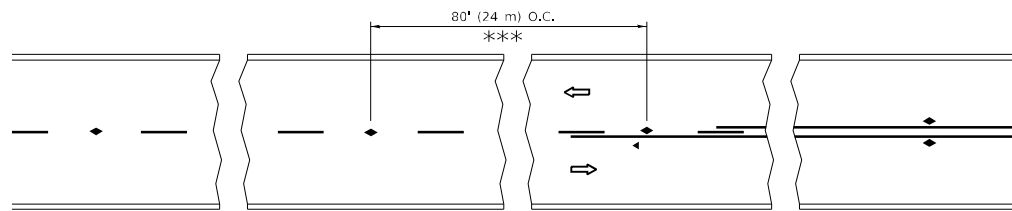
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PLOT DATE = 3/25/2022	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

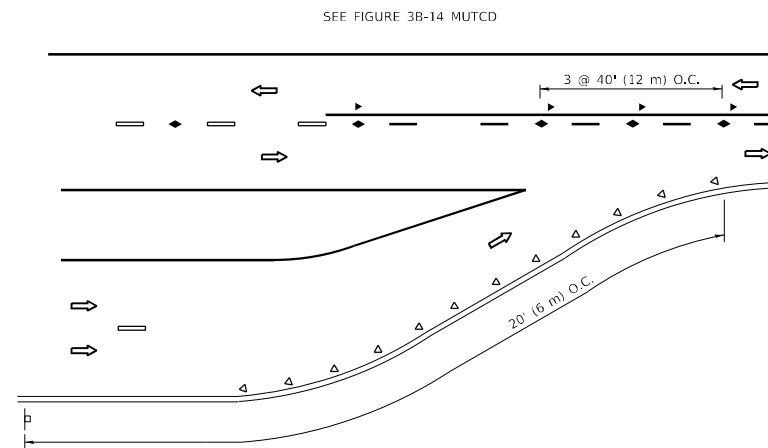
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10		CONTRACT NO. 62P33		
ILLINOIS FED. AID PROJECT				

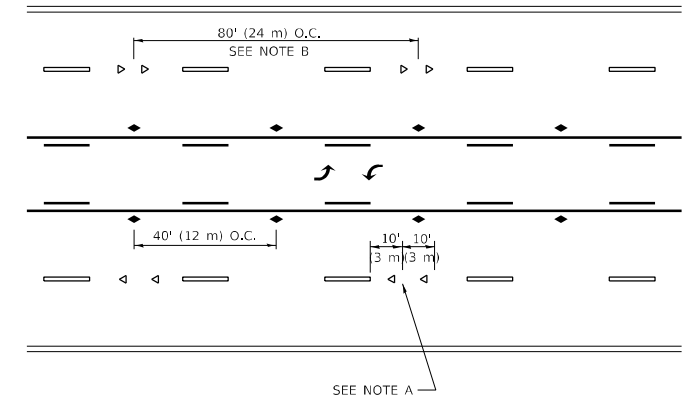


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

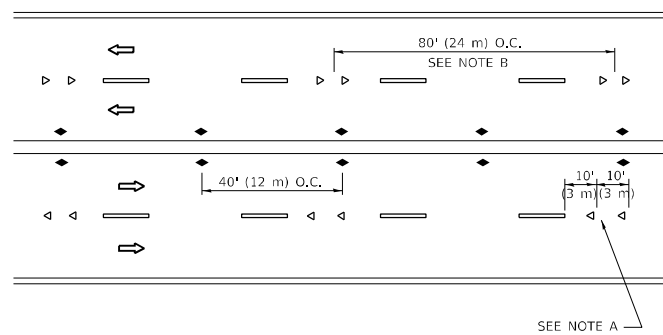
TWO-LANE/TWO-WAY



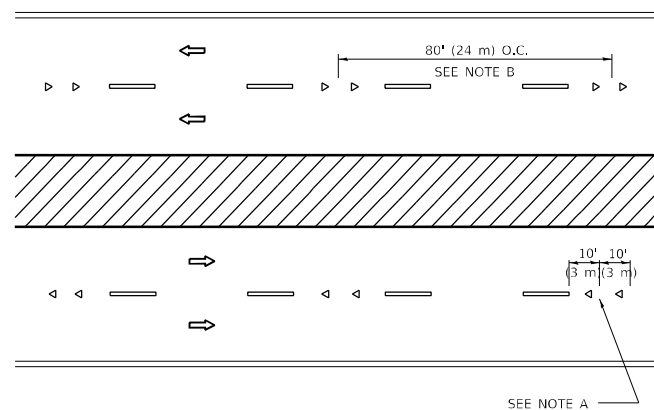
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

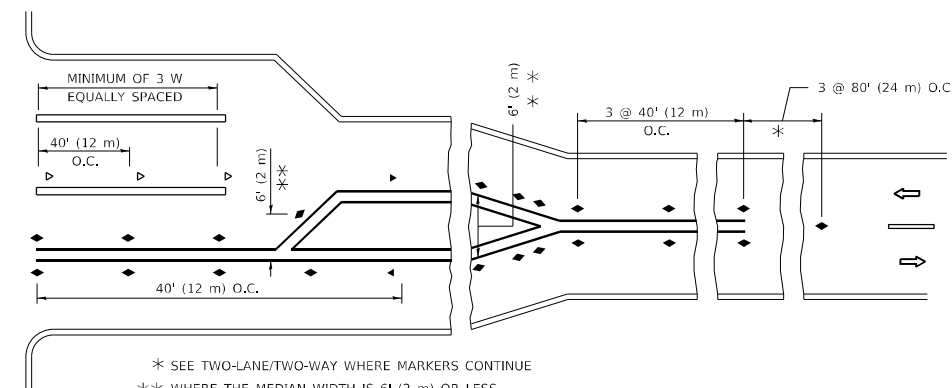
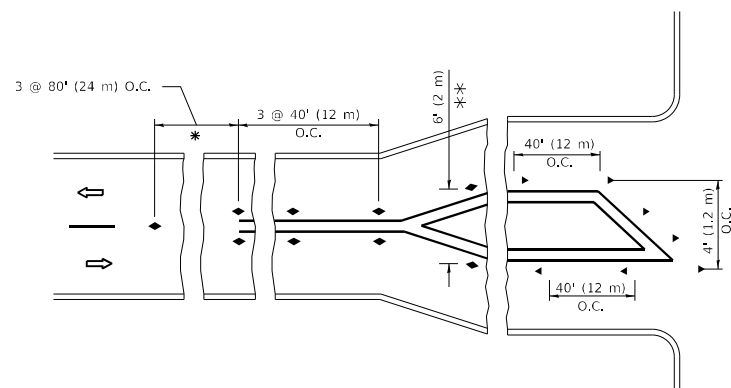
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



TURN LANES

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

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PLOT DATE = 3/25/2022	CHECKED -	REVISED - C. JUCIUS 09-09-09
	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	41
TC-11		CONTRACT NO. 62P33		
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

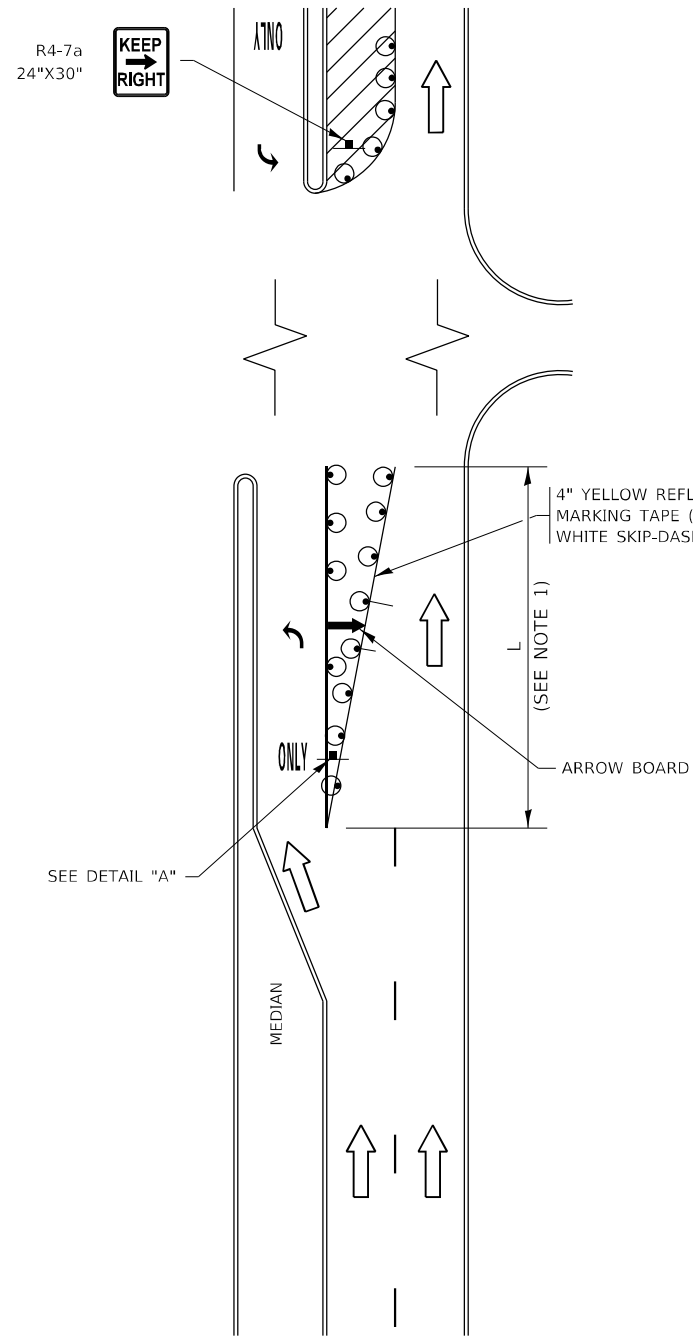


FIGURE 1

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. 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.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

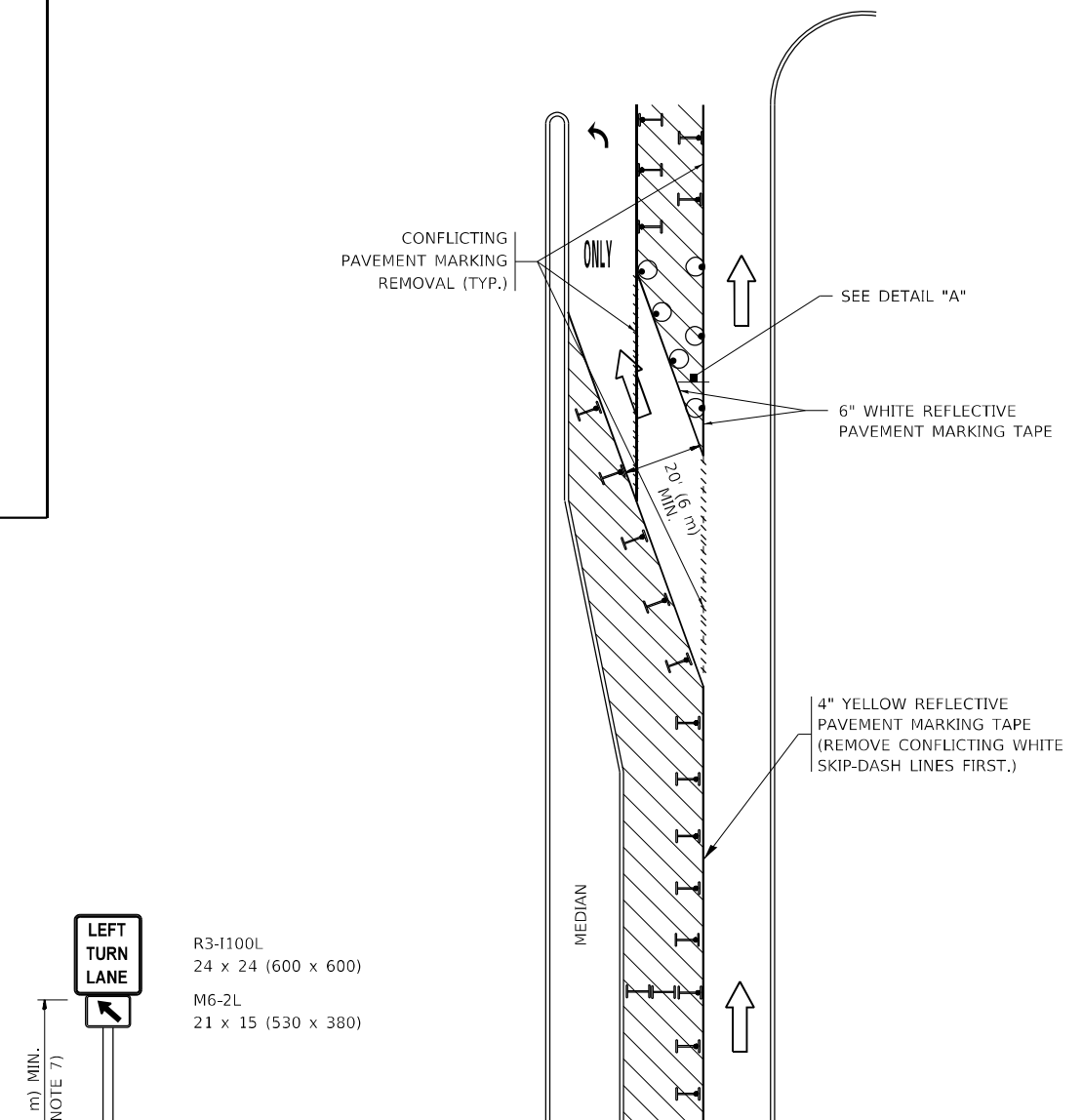
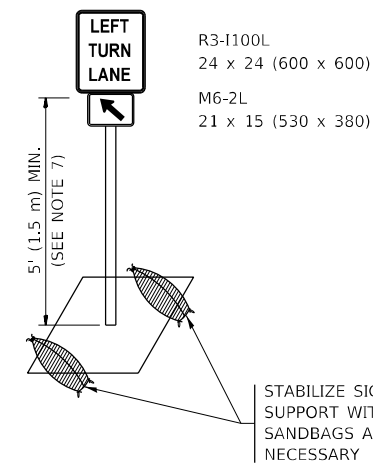


FIGURE 2



DETAIL A

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

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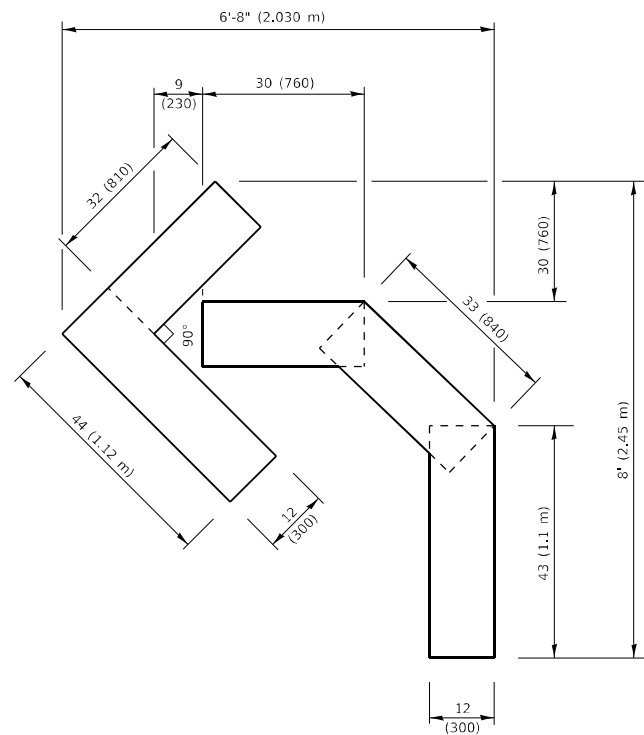
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PLOT DATE = 3/25/2022	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

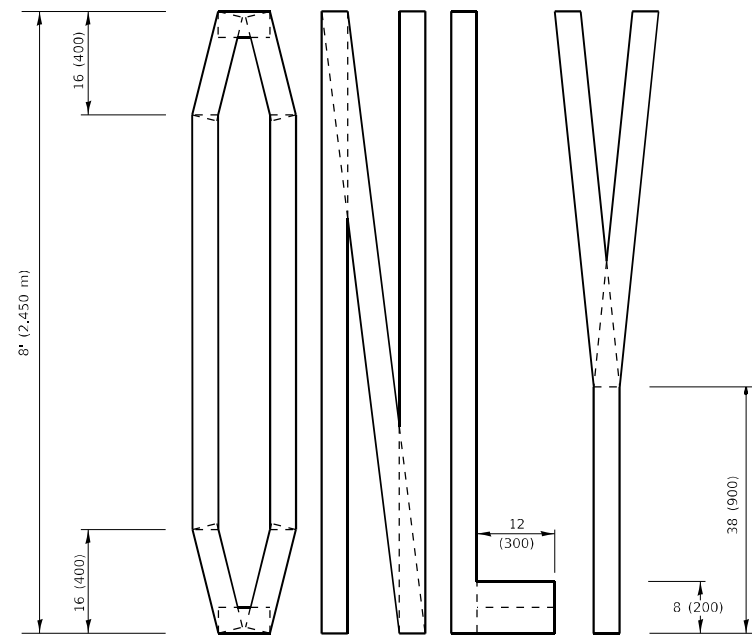
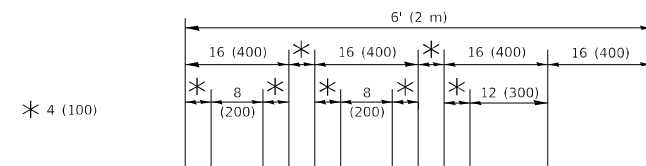
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14		CONTRACT NO. 62P33		
ILLINOIS FED. AID PROJECT				



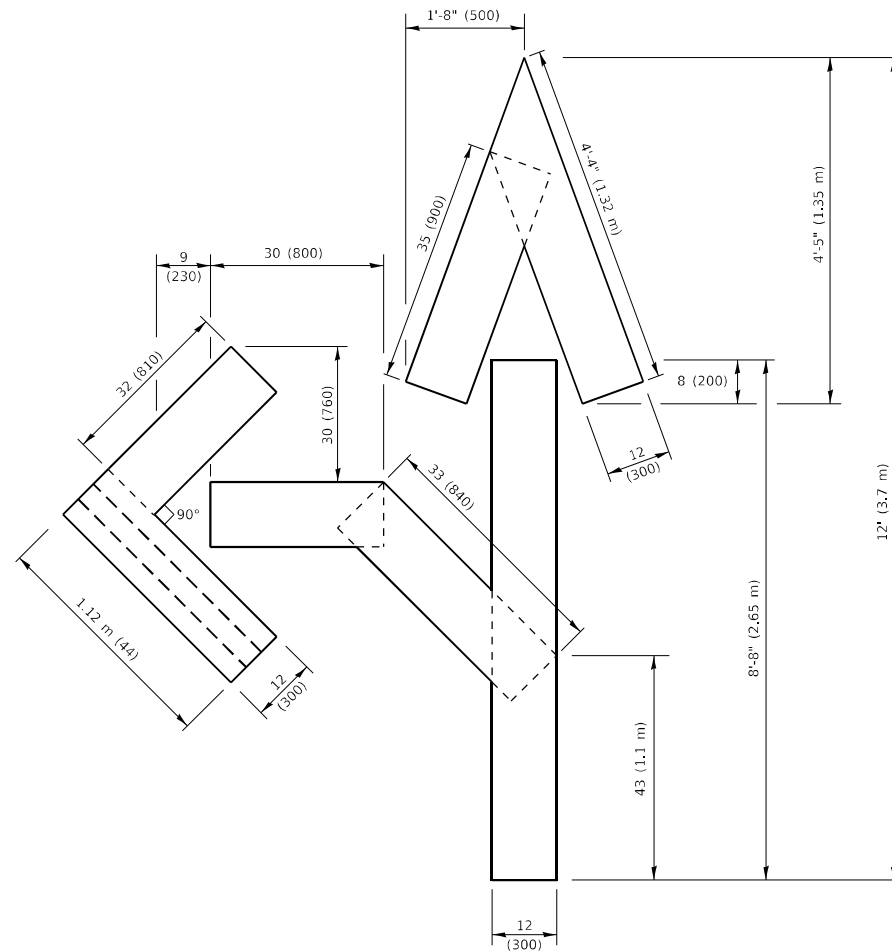
QUANTITY

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



QUANTITY

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

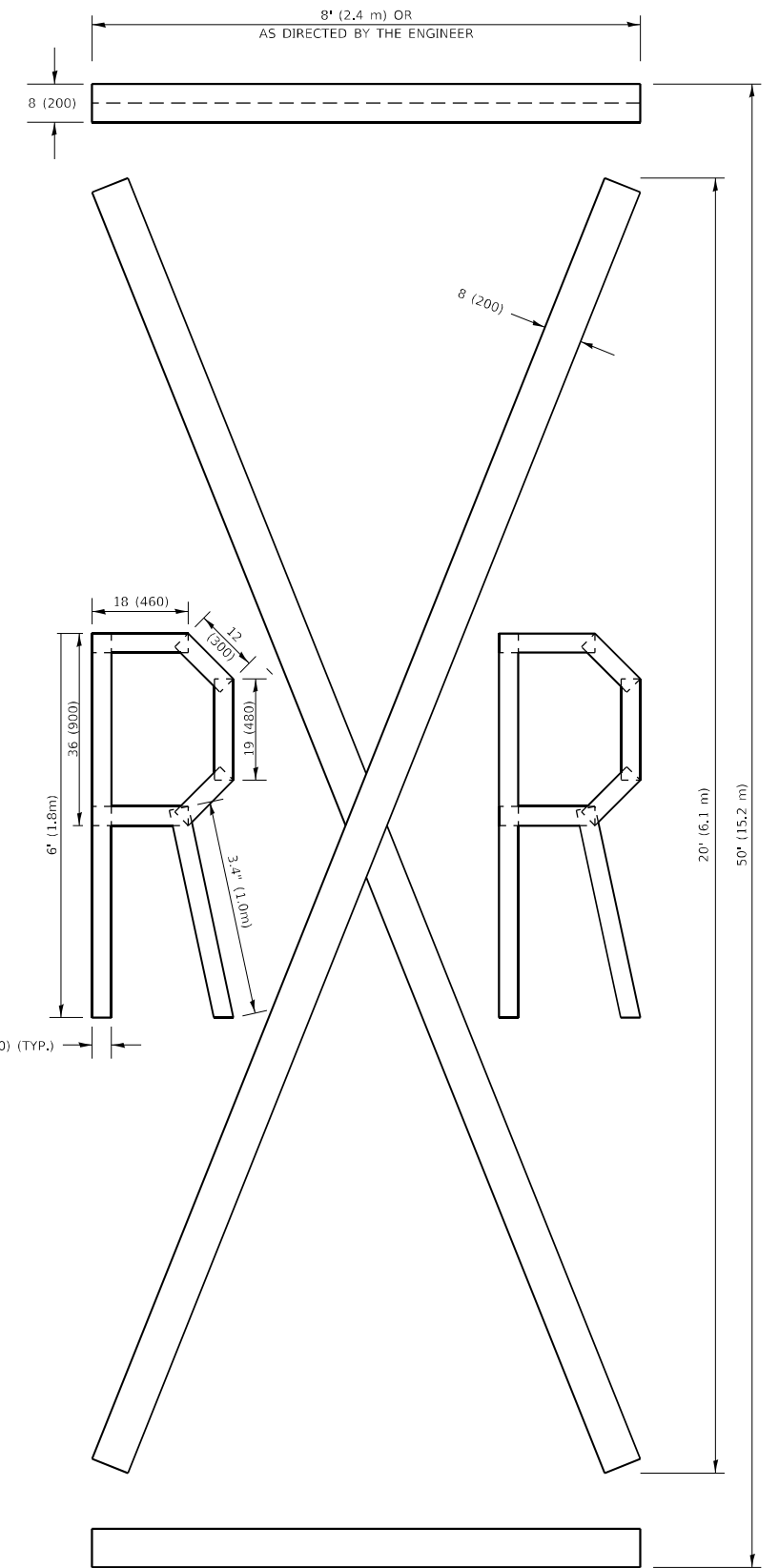


QUANTITY

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



QUANTITY

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

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

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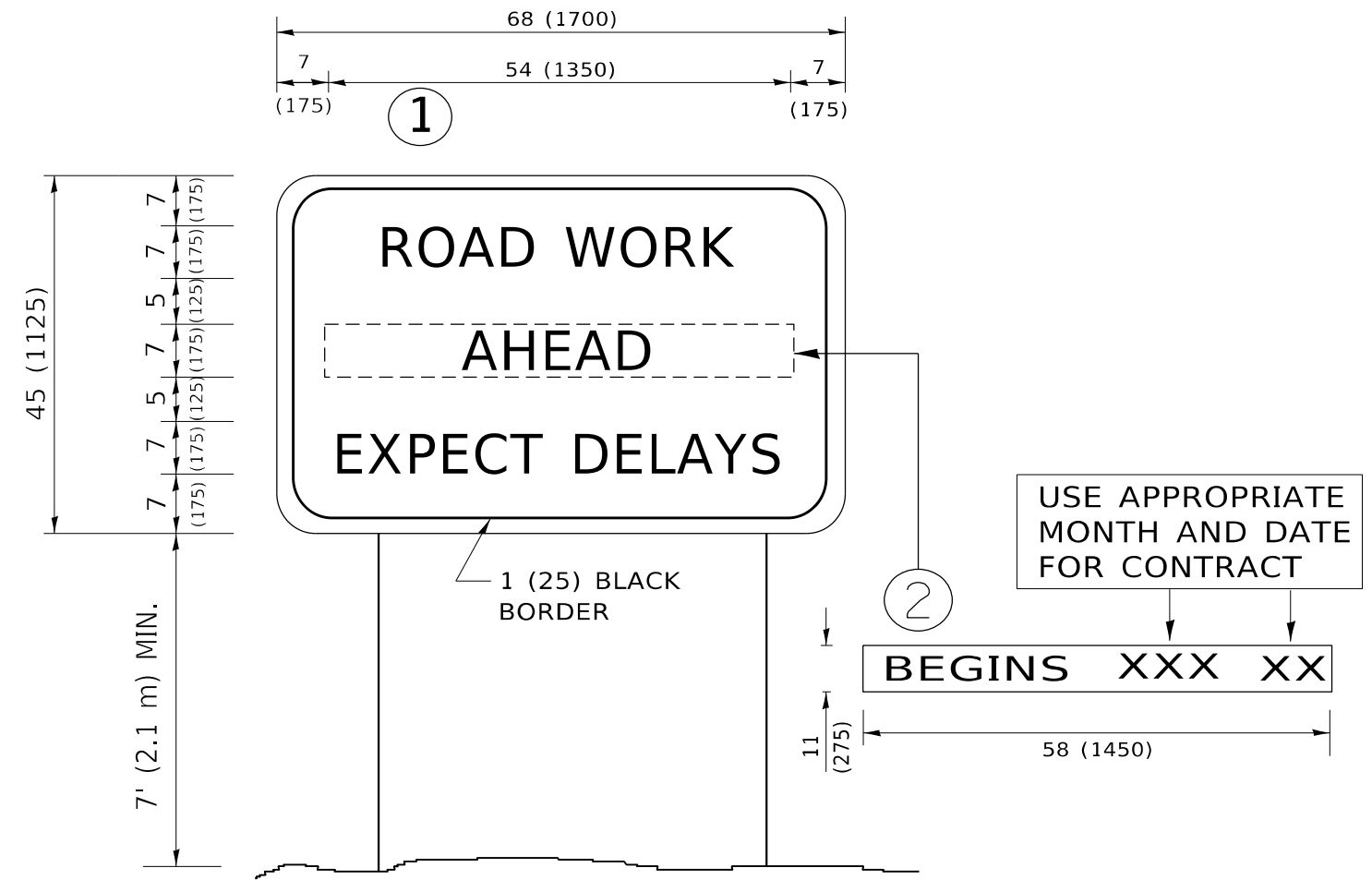
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW6FL	LAKE	49	44
TC-16			CONTRACT NO. 62P33	
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.

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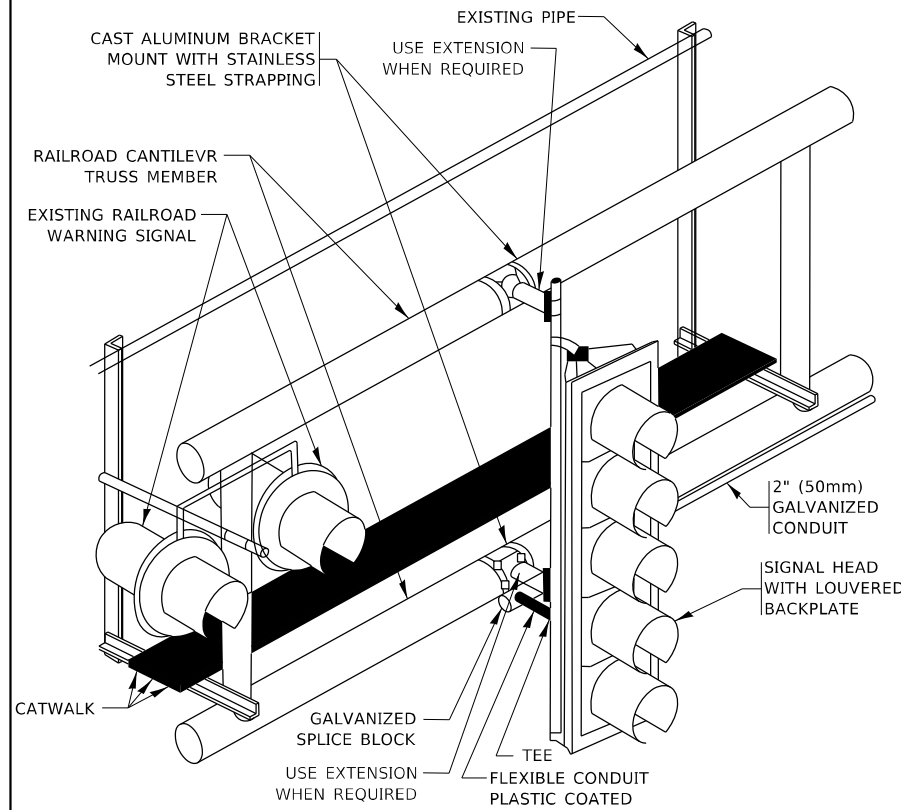
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

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TC-22			CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				

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RAILROAD CANTILEVER SIGNAL HEAD MOUNTING

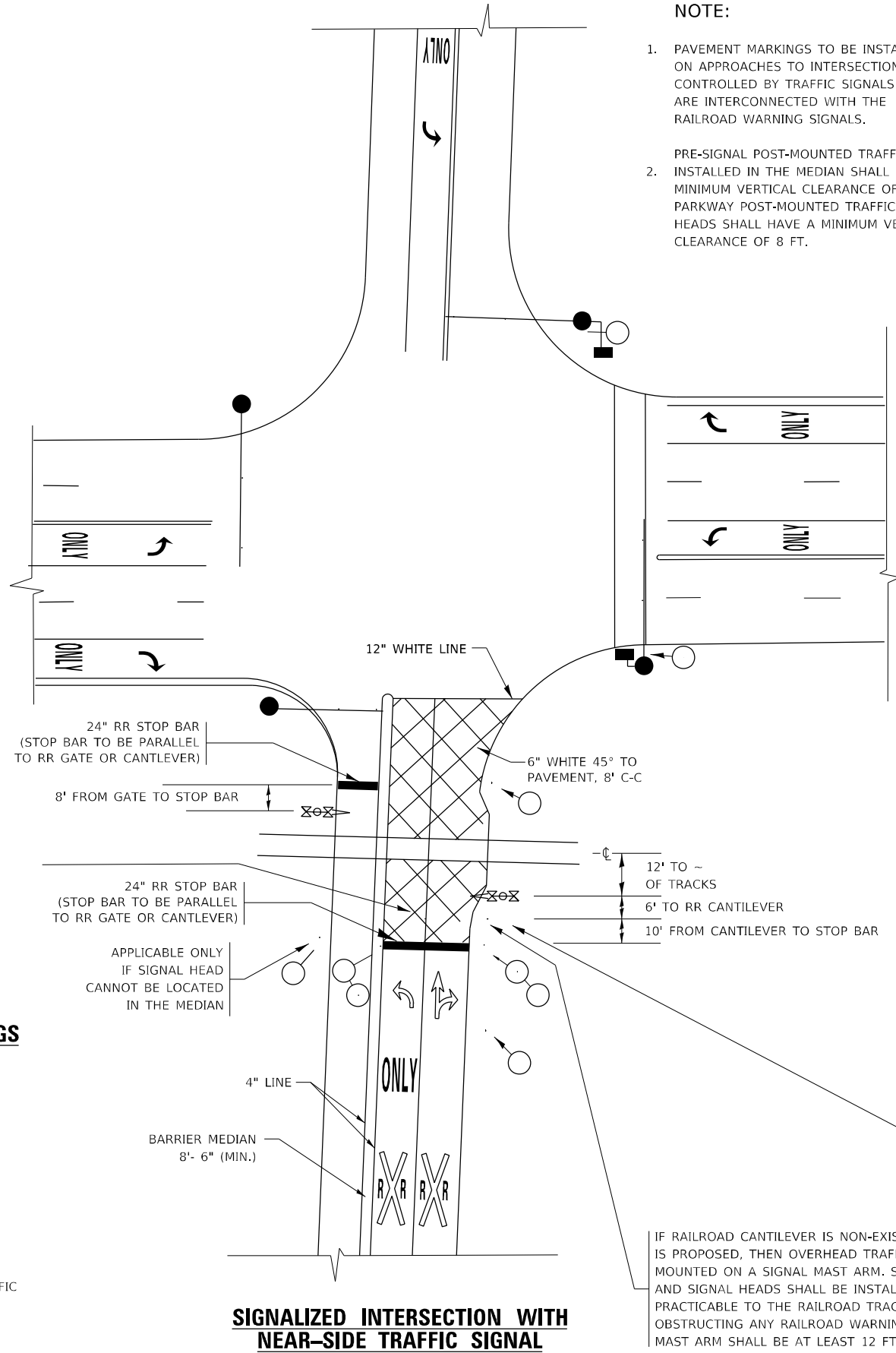
USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION
N.T.S.

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.

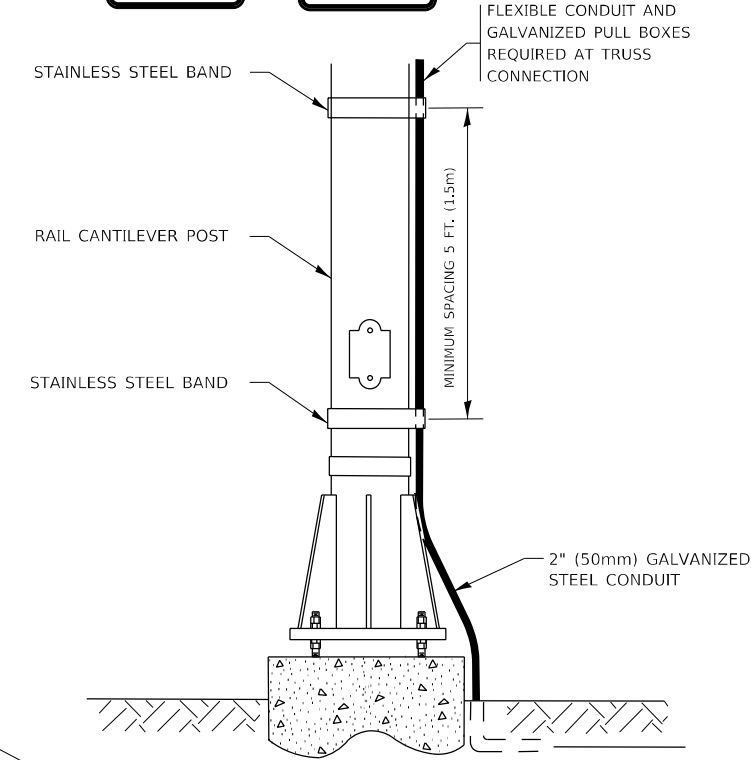
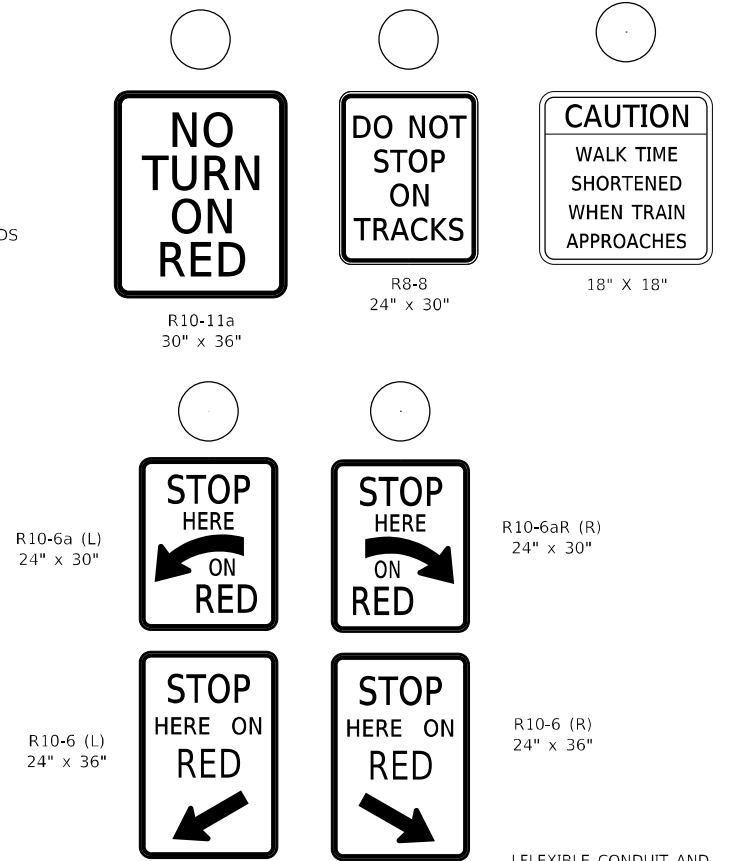
THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL

NOTE:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- 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.



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.

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.

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS**

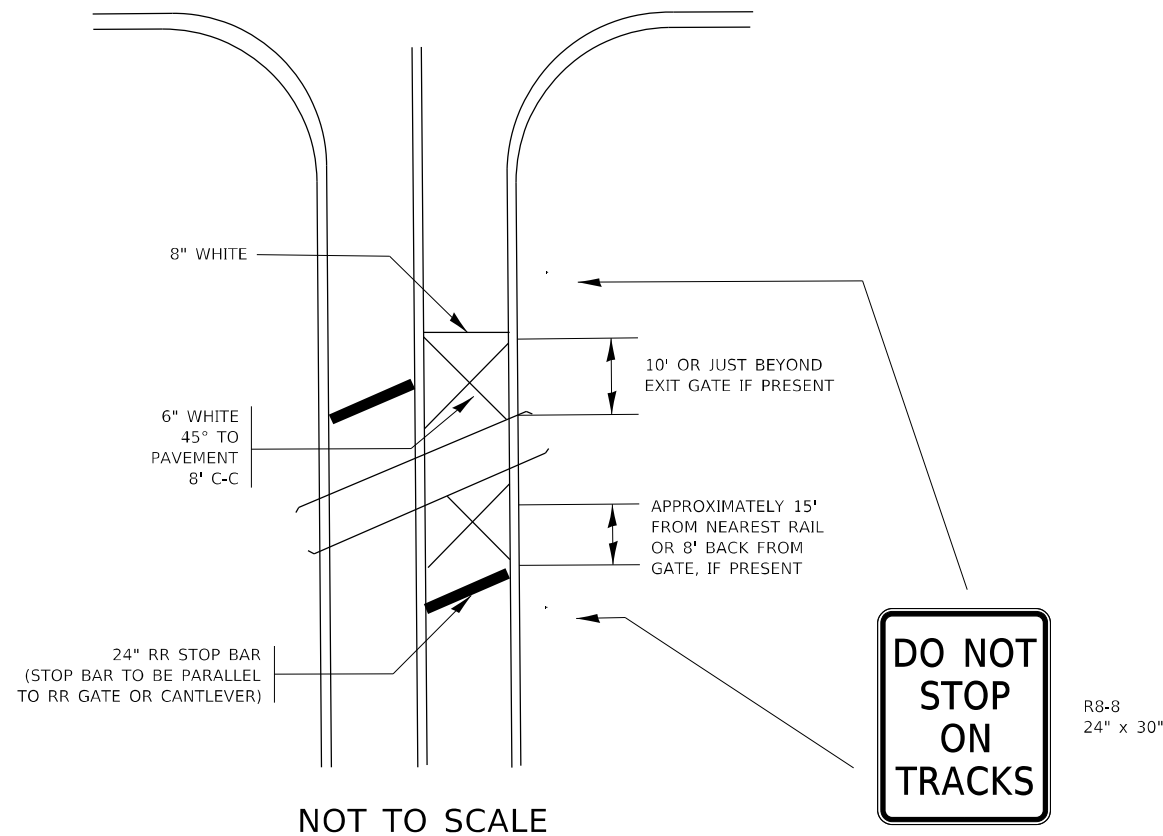
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SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-RS-SW&FL	LAKE	49	46
TC-23				CONTRACT NO. 62P33
ILLINOIS		FED. AID PROJECT		

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

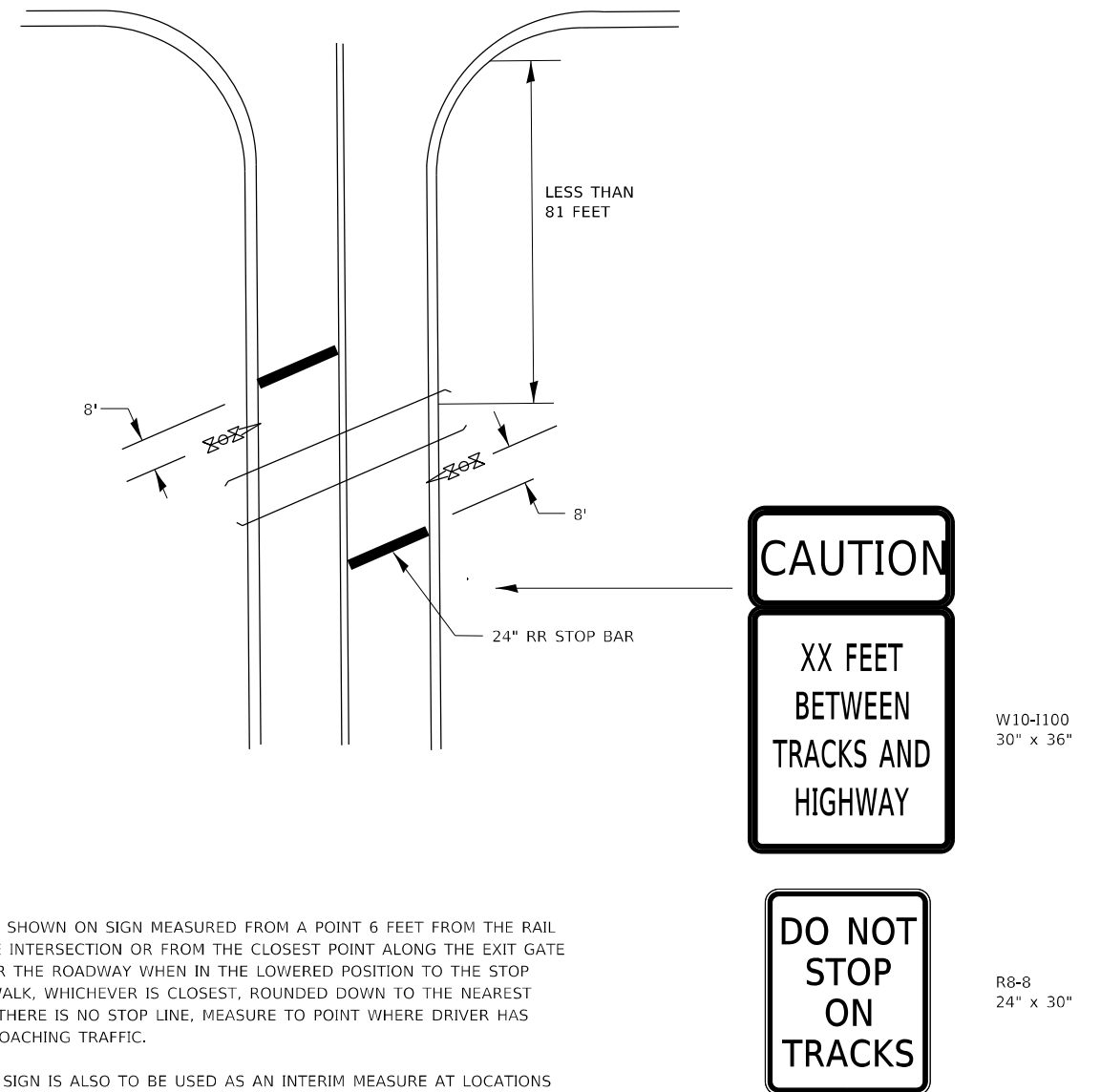
WITH SIGNALIZED INTERSECTION



NOTE:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- 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:

- 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.
- 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.

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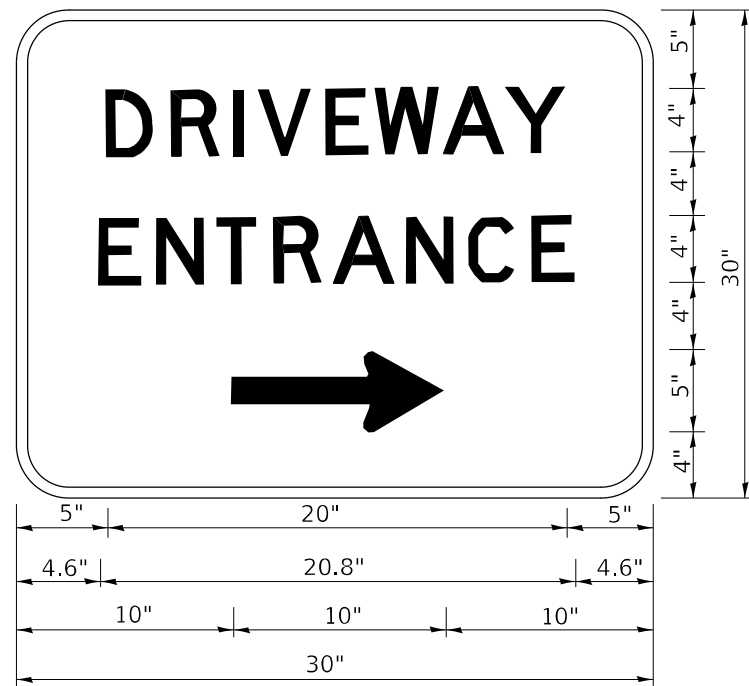
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS

SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	47
TC-23			CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

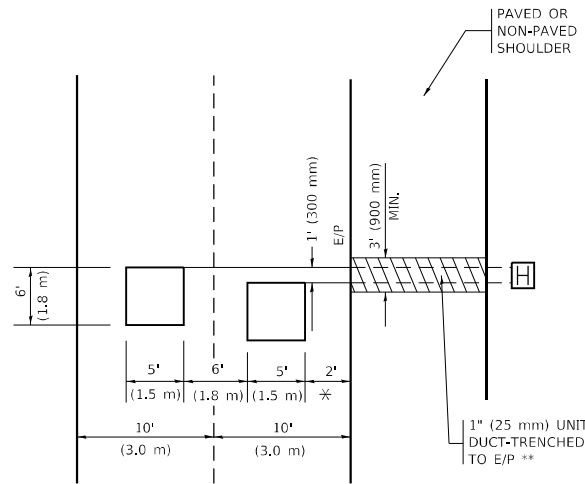
DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	48
TC-26			CONTRACT NO. 62P33	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

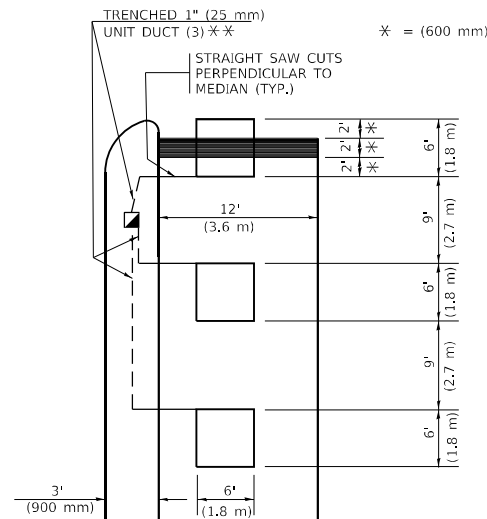


* = (600 mm)

** 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.

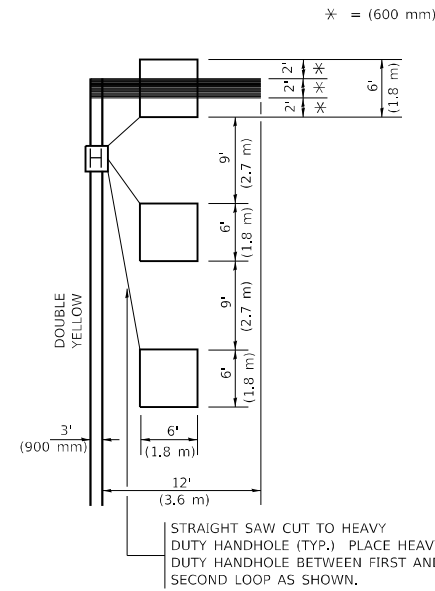


* = (600 mm)

** 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)



* = (600 mm)

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

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.

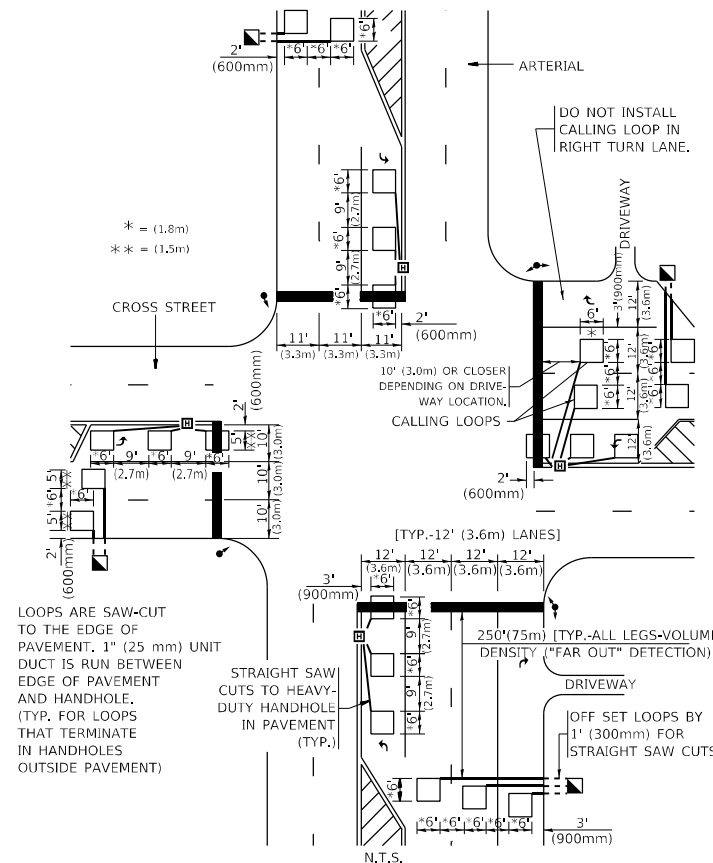
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

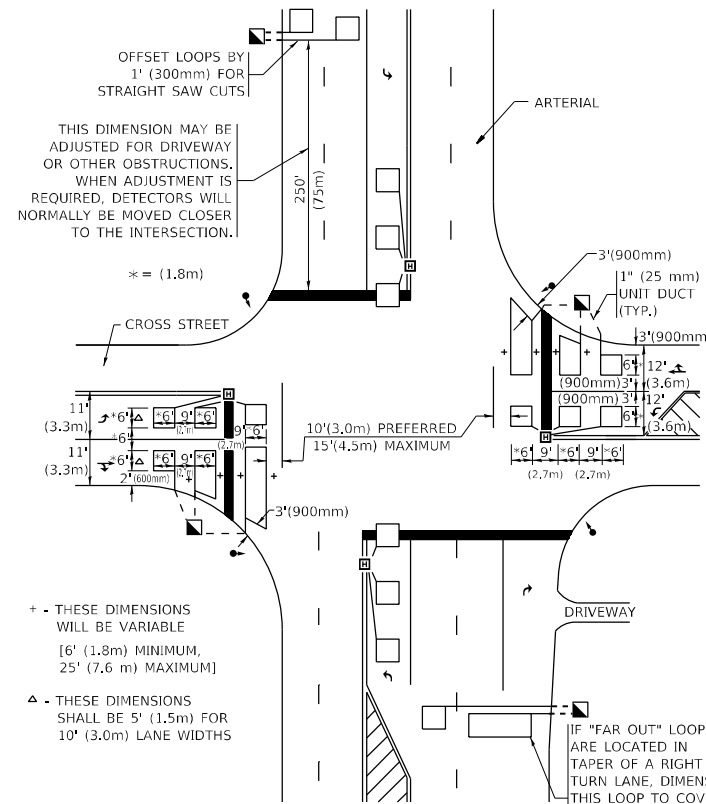
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



* = (1.8m)
 ** = (1.5m)

DETAIL 1
 N.T.S.

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



+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
 Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

DETAIL 2
 N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

USER NAME = babuln]	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/25/2022	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2021-108-R5-SW&FL	LAKE	49	49
TS-07		CONTRACT NO. 62P33		
		ILLINOIS FED. AID PROJECT		

MODEL Default
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