

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	1
		ILLINOIS	CONTRACT NO. 62N62	

FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE CITY OF AURORA

TRAFFIC DATA:

IL 56
2021 ADT = 17,500 - 18,600 VPD
POSTED SPEED LIMIT = 50 MPH
FUNCTIONAL CLASSIFICATION = OTHER PRINCIPAL ARTERIAL

OMISSIONS:

INDIAN CREEK BRIDGE
STA. 41 + 78.82 TO 42 + 05.20

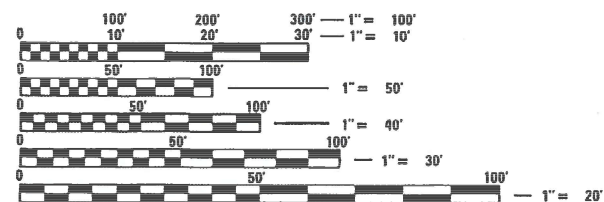
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 365: IL 56 (BUTTERFIELD ROAD)
0.1 MILES WEST OF CHURCH ROAD TO DUPAGE COUNTY LINE
SECTION: 2021-040-RS
PROJECT: NHPP-N84M(597)
SMART OVERLAY, ADA IMPROVEMENTS
KANE COUNTY
C-91-135-21



GENEVA - BATAVIA TOWNSHIP - SECTION 35, 36

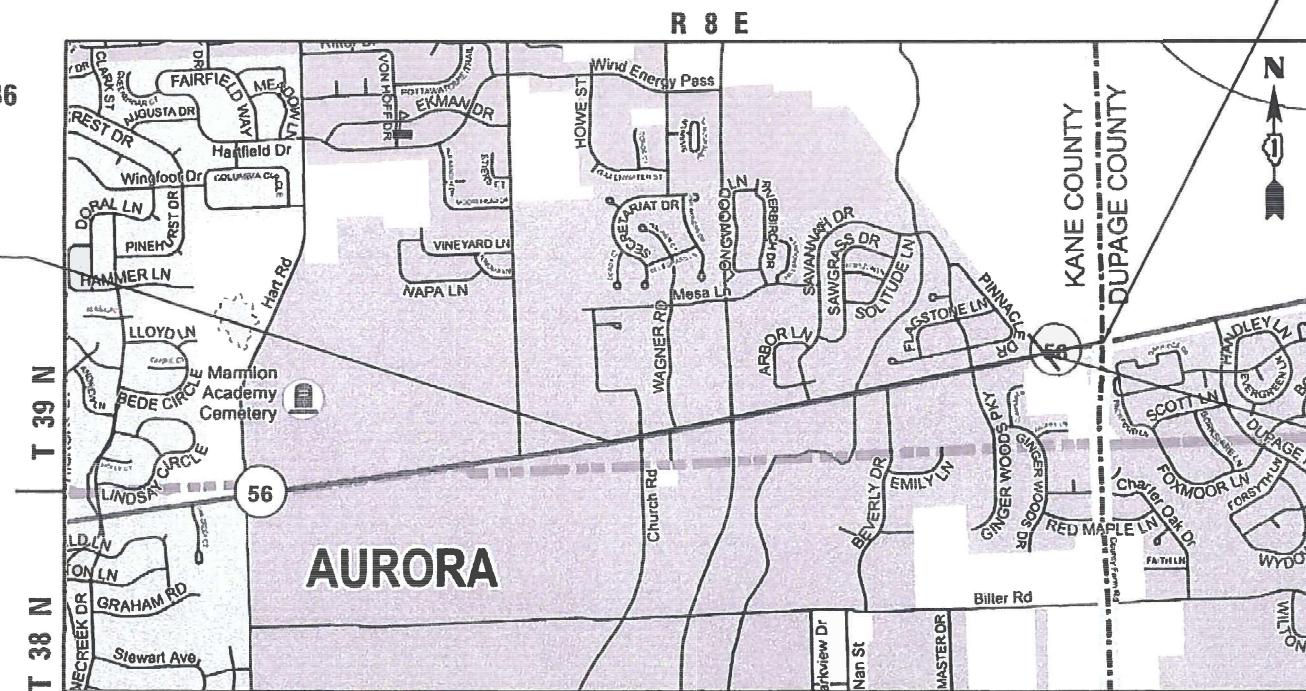
PROJECT BEGINS
IL 56 STA 8 + 50

PROJECT ENDS
IL 56 STA 72 + 98



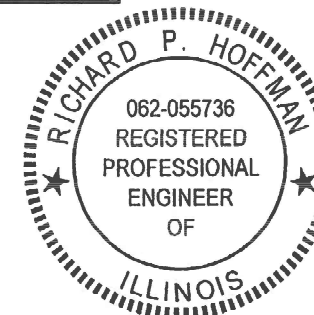
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123
OR 811



GENEVA - BATAVIA TOWNSHIP
LOCATION MAP (NOT TO SCALE)

GROSS LENGTH = 6,448 FT. = 1.22 MILE
NET LENGTH = 6,422 FT. = 1.22 MILE



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

CONTRACT NO. 62N62

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED: January 26, 2023

Jose Pineda
REGIONAL ENGINEER

March 24, 2023

Scott A. Etkin
ENGINEER OF DESIGN AND ENVIRONMENT

March 24, 2023

Stephen M. Smith
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



Richard P. Hoffman 16/2023
RICHARD P. HOFFMAN DATE
LICENSE EXPIRES 11/30/2023

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HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT
482006-03	HMA SHOULDER ADJACENT TO RIGID PAVEMENT
602301-04	INLET TYPE A
604086-05	FRAME AND GRATE TYPE 23
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
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 MOVING OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
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
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS ≥ 45 MPH
701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS > 45 MPH
701502-09	URBAN LANE CLOSURE, 2L, 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 CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS, AND DELINEATORS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTION 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 UTILITIES. (48 HOUR NOTIFICATION IS REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE CITY OF AURORA.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 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.
- ALL PAVEMENT PATCHING LOCATIONS 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.
- FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, AREA TRAFFIC FIELD ENGINEER, AT WALTER.CZARNY@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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.
- LANDSCAPED AREAS AFFECTED BY SIDEWALK CONSTRUCTION SHALL BE RESTORED WITH 18" WIDE STRIP OF "SODDING, SALT TOLERANT" AND "TOPSOIL FURNISH AND PLACE, 4-INCH" INSTALLED FROM THE BACK OF THE SIDEWALK, OR AS DETERMINED BY THE ENGINEER.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1.
- GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

MAINTENANCE OF TRAFFIC NOTES:

- THE CONTRACTOR SHALL BACKFILL OPEN EXCAVATION AND DROP OFFS TO MEET IDOT SAFETY ENGINEERING POLICY MEMORANDUM SAFETY 4-21 — SAFETY ENGINEERING POLICY 4-21 DATED NOVEMBER 8, 2021 OR LATER. SEE TABLE 2, CONDITION II DROP-OFF NEAR THE EDGE OF TRAVELED WAY.
- AT THE DIRECTION OF THE ENGINEER, THE CONTRACTOR SHALL BACKFILL OPEN EXCAVATION AND DROP OFFS USING AGGREGATE BASE COURSE, TYPE B THE SAME DAY AS PAVEMENT REMOVAL, SHOULDER REMOVAL, MEDIAN REMOVAL, OR CURB AND GUTTER REMOVAL TO PREVENT ANY DROP OFF WITH ADJACENT LANES. AGGREGATE BASE COURSE, TYPE B SHALL BE INSTALLED UP TO THE ELEVATION OF THE ADJACENT PAVEMENT.
- PLACEMENT, INSTALLATION AND REMOVAL OF BACKFILL MATERIAL SHALL BE PAID FOR AS PAY ITEM AGGREGATE BASE COURSE, TYPE B AND INCLUDES ALL OPERATIONS TO INSTALL THE BACKFILL MATERIAL. NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR FOR PLACEMENT, INSTALLATION, AND REMOVAL OF BACKFILL AT A SINGLE LOCATION MULTIPLE TIMES. NO ADDITIONAL PAYMENT WILL BE MADE FOR MOVING THE AGGREGATE BASE COURSE, TYPE B BETWEEN LOCATIONS ON THE JOBSITE. SUFFICIENT PLAN QUANTITY IS PROVIDED FOR A SINGLE OPERATION OF BACKFILLING AT SHOULDERS, PAVEMENT REMOVAL, MEDIAN, AND CURB AND GUTTER AREAS.
- PROPOSED WORK ASSOCIATED WITH AREAS OF OPEN EXCAVATION AND DROP OFFS MUST BE COMPLETED WITHIN TWO WEEKS OF REMOVAL TO ADHERE TO THE IDOT SAFETY ENGINEERING POLICY MEMORANDUM SAFETY 4-21.

EROSION AND SEDIMENT CONTROL NOTES:

- THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR THE MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
- THE CONTRACTOR SHALL CHECK ALL EROSION AND SEDIMENT CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL OF 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD.
- INDIAN CREEK IS A NO INTRUSION AREA, AND APPLICABLE EROSION CONTROL MEASURES SHALL BE PROVIDED TO PROTECT THE CREEK FROM CONSTRUCTION DEBRIS AND POLLUTION.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLING ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE RESIDENT ENGINEER.

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PLOT DATE = 3/17/2023	DATE - 3/17/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 56 (BUTTERFIELD ROAD)				365	2021-040-R5	KANE	57	2
SCALE:				SHEET OF SHEETS		STA. TO STA.		CONTRACT NO. 62N62
				ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY		TRAFFIC, ADA
				0005		0021
				URBAN		URBAN
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
20200500	EARTH EXCAVATION (WIDENING)	CU YD	2,150	2,150		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	673	673		
20800150	TRENCH BACKFILL	CU YD	1	1		
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	599	599		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2,864	2,864		
25000210	SEEDING, CLASS 2A	ACRE	0.75	0.75		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	53	53		
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	53	53		
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	53	53		
25200110	SODDING, SALT TOLERANT	SQ YD	104	104		
25200200	SUPPLEMENTAL WATERING	UNIT	1.0	1.0		
28000400	PERIMETER EROSION BARRIER	FOOT	711	711		
28000510	INLET FILTERS	EACH	7	7		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	200	200		
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	8,375	8,375		
35101400	AGGREGATE BASE COURSE, T YPE B	TON	10,105	10,105		
35600717	HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"	SQ YD	1,614	1,614		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	22,337	22,337		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	35,173	35,173		
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	79.6	79.6		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	421	421		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	176	176		
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	4,530	4,530		

* - SPECIALTY ITEM

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PLOT DATE = 2/1/2023	DATE - 2/1/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 56 (BUTTERFIELD ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N62	

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				ROADWAY		TRAFFIC, ADA
				0005		0021
				URBAN		URBAN
				80% FEDERAL 20 % STATE	100% STATE	80% FEDERAL 20 % STATE
42001300	PROTECTIVE COAT	SQ YD	756	756		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2,056.0	2,056.0		
42400800	DETECTABLE WARNINGS	SQ FT	311	311		
44000100	PAVEMENT REMOVAL	SQ YD	1,388	1,388		
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	46,411	46,411		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	1,736	1,736		
44000600	SIDEWALK REMOVAL	SQ FT	1,836	1,836		
44003100	MEDIAN REMOVAL	SQ FT	1,208	1,208		
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SQ YD	138	138		
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SQ YD	53	53		
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SQ YD	60	60		
44213200	SAW CUTS	FOOT	8,912	8,912		
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	896	896		
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	5,047	5,047		
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	8	8		
55100500	STORM SEWER REMOVAL 12"	FOOT	8	8		
60237460	INLETS, TYPE A, TYPE 23 FRAME AND GRATE	EACH	1	1		
60260100	INLETS TO BE ADJUSTED	EACH	2	2		
60264130	INLETS TO BE RECONSTRUCTED WITH NEW TYPE 23 FRAME AND GRATE	EACH	1	1		
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	3	3		
60500060	REMOVING INLETS	EACH	1	1		
60619910	CONCRETE MEDIAN, TYPE SB-6.18	SQ FT	6,955	6,955		

* - SPECIALTY ITEM



USER NAME = BonebraC
 PLOT SCALE = 100,0000' / in.
 PLOT DATE = 1/17/2023

DESIGNED - CJB
 DRAWN - CJB
 CHECKED - JLB
 DATE - 1/17/2023

REVISED -
 REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 IL 56 (BUTTERFIELD ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N62	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY		TRAFFIC, ADA
				0005		0021
				URBAN		URBAN
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	418	418		
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4		
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4		
* 63200310	GUARDRAIL REMOVAL	FOOT	297	297		
	67100100 MOBILIZATION	L SUM	1	1		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2,150	2,150		
* 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	10	10		
	70100450 TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1		
	70100460 TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1		
	70100500 TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1		
	70102622 TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1		
	70102625 TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	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		
	70300100 SHORT TERM PAVEMENT MARKING	FOOT	2,309	2,309		
	70300150 SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	762	762		
	70300211 TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1,574	1,574		
	70300221 TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	27,682	27,682		

* - SPECIALTY ITEM

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	DRAWN - CJB	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 2/1/2023	DATE - 2/1/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 56 (BUTTERFIELD ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	5
CONTRACT NO. 62N62			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY		TRAFFIC, ADA
				0005		0021
				URBAN		URBAN
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	6,899	6,899		
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	763	763		
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	2,897	2,897		
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	690	690		
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	158	158		
*	72000100 SIGN PANEL - TYPE 1	SQ FT	66	66		
*	72501000 TERMINAL MARKER - DIRECT APPLIED	EACH	4	4		
*	72800100 TELESCOPING STEEL SIGN SUPPORT	FOOT	40	40		
*	72900100 METAL POST - TYPE A	FOOT	117	117		
*	73100100 BASE FOR TELESCOPING STEEL SIGN SUPPORT	EACH	8	8		
*	78000100 THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1,574	1,574		
*	78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	27,682	27,682		
*	78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6,899	6,899		
*	78000500 THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	763	763		
*	78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2,897	2,897		
*	78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	690	690		
*	78009004 MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	158	158		
*	78100100 RAISED REFLECTIVE PAVEMENT MARKER	EACH	351	351		
*	78200005 GUARDRAIL REFLECTORS, TYPE A	EACH	8	8		
	78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	351	351		
*	81028200 UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	33			33
*	85000200 MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2

* - SPECIALTY ITEM

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USER NAME = BonebraC	DESIGNED - CJB	REVISED -
DRAWN - CJB	REVISED -	
PLOT SCALE = 100.0000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 1/17/2023	DATE - 1/17/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL 56 (BUTTERFIELD ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	6
CONTRACT NO. 62N62			ILLINOIS FED. AID PROJECT	

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE		
				ROADWAY		TRAFFIC, ADA
				0005		0021
				URBAN		URBAN
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	252			252
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	256			256
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	65			65
* 87900200	DRILL EXISTING HANDHOLE	EACH	2			2
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,780			2,780
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2			2
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	236			236
* 89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	100			100
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	2			2
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1		
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	923	923		
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2			2
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	44	44		
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	215	215		
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	375		375	
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12		
* X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	228	228		
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8			8
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8			8
Z0018200	DRAINAGE STRUCTURE RECONSTRUCTION (SPECIAL)	EACH	1	1		
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5		5	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	114	114		
* Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1			1
Ø Z0076600	TRAINEES	HOUR	500	500		
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOUR	500	500		

* - SPECIALTY ITEM

Ø 0042

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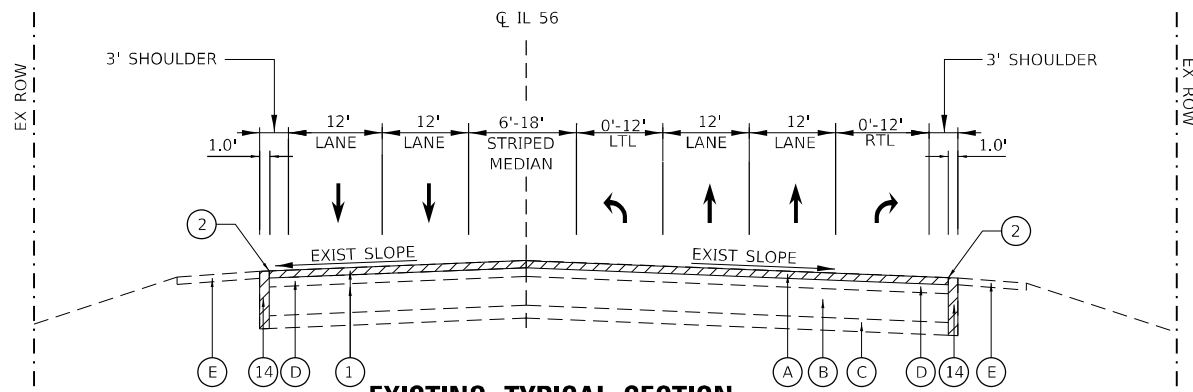
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DRAWN - CJB	REVISIONS -	
PLOT SCALE = 100.0000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 1/17/2023	DATE - 1/17/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 56 (BUTTERFIELD ROAD)

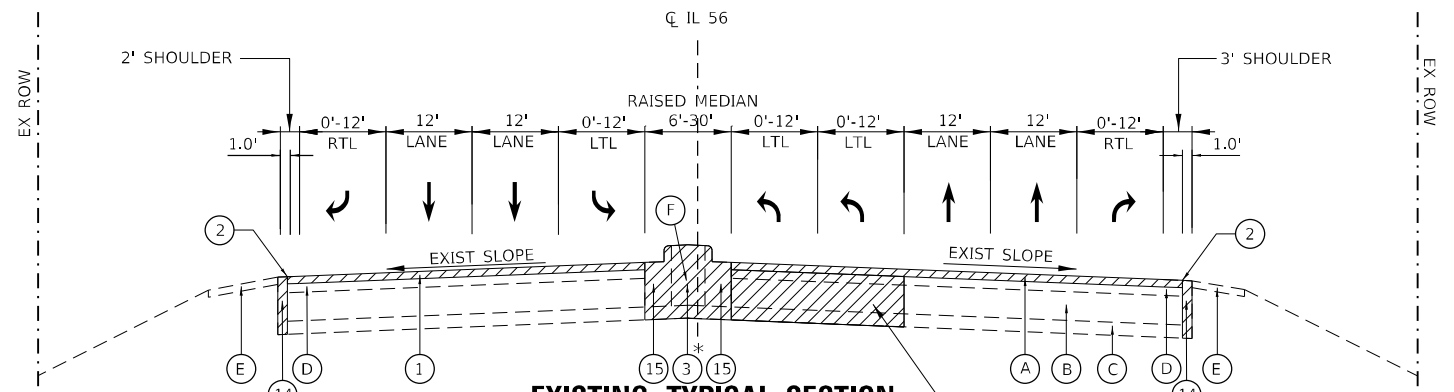
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	7
			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

STA. 8+50.00 TO STA. 15+23.90

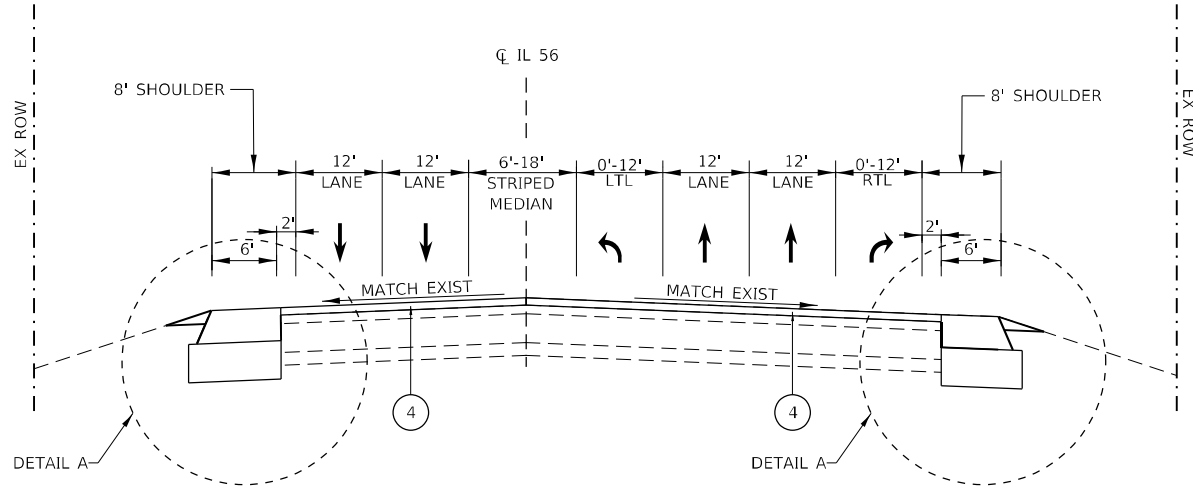


EXISTING TYPICAL SECTION

STA. 15+23.90 TO STA. 26+85.36

* EX. CONCRETE MEDIAN REMOVAL:
STA. 18+42.22 TO STA. 21+10.98
STA. 21+10.98 TO STA. 23+67.15

EX. PAVEMENT REMOVAL (SEE PLANS)
STA. 22+51.80 TO STA. 24+15.00 (INSIDE TURN LANE)
STA. 21+31.16 TO STA. 23+00.00 (OUTSIDE TURN LANE)

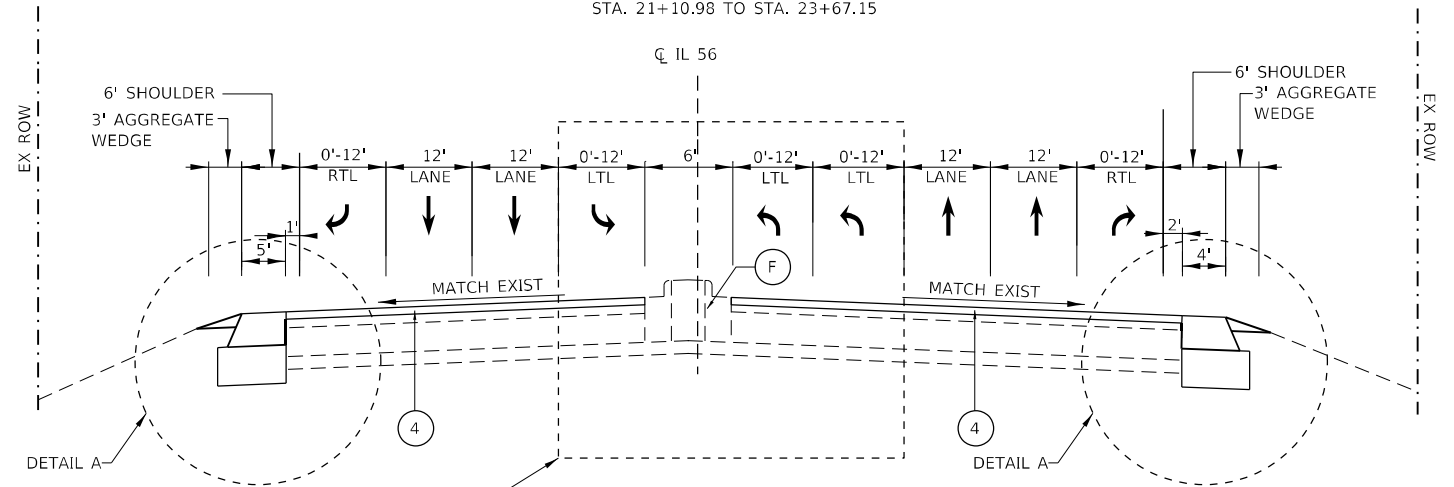


PROPOSED TYPICAL SECTION

STA. 8+50.00 TO STA. 15+23.90

SHOULDERS FROM:
STA. 8+50.00 TO STA. 14+21.15

SHOULDERS FROM:
STA. 8+93.94 TO STA. 13+90.56



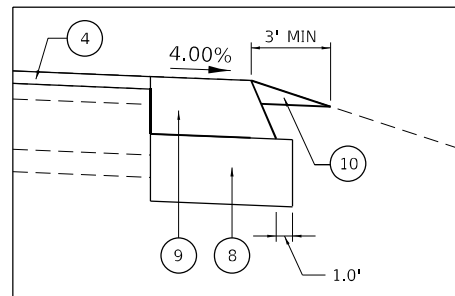
PROPOSED TYPICAL SECTION

STA. 15+23.90 TO STA. 26+85.36

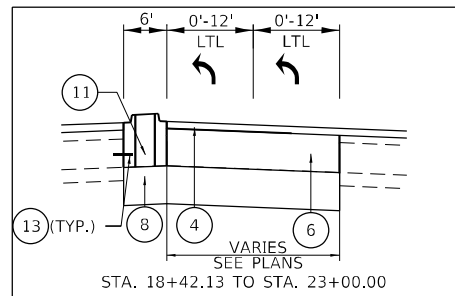
SHOULDERS FROM:
STA. 16+39.48 TO STA. 18+75.49,
STA. 21+75.92 TO STA. 25+71.67

SEE DETAIL B AND C

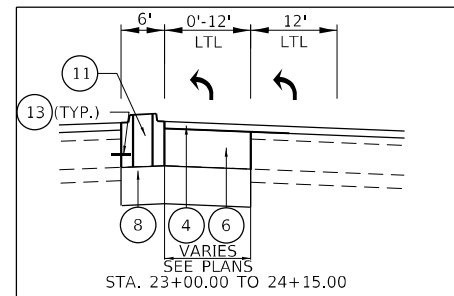
SHOULDERS FROM:
STA. 16+16.77 TO STA. 23+16.35



DETAIL A



DETAIL B



DETAIL C

- NOTES:
1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
 2. THE CONTRACTOR SHALL MILL FIRST THEN PATCH.

LEGEND

- (A) EXISTING HOT-MIX ASPHALT SURFACE 5" ±
 - (B) EXISTING PCC BASE COURSE 9" ±
 - (C) EXISTING STABILIZED SUBBASE
 - (D) EXISTING PAVED SHOULDER
 - (E) EXISTING AGGREGATE SHOULDER
 - (F) EXISTING MEDIAN (GRASS AND/OR CONCRETE)
 - (G) EXISTING GUARDRAIL TO BE REMOVED
 - (1) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
 - (2) PROPOSED SAW CUT
 - (3) EXISTING MEDIAN REMOVAL
 - (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - (5) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
 - (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"
 - (7) NOT USED
 - (8) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
 - (9) PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
 - (10) PROPOSED AGGREGATE WEDGE SHOULDER TYPE "B"
 - (11) PROPOSED CONCRETE MEDIAN, TYPE SB-6.18
 - (12) PROPOSED GUARDRAIL
 - (13) #6 TIE BARS AT 24" CTS
 - (14) PAVEMENT REMOVAL, FULL DEPTH
 - (15) PROPOSED COMBINATION CURB AND GUTTER REMOVAL
- REMOVAL ITEMS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT SMART OVERLAY	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"	3.5% @ 80 Gyr.	QCP
PAVEMENT SMART OVERLAY - SHOULDERS	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1.75"	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT SHOULDER, 10"	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1.75"	4% @ 70 Gyr.	QC/QA
	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8.25"	4% @ 70 Gyr.	QC/QA
PAVEMENT WIDENING	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"	3.5% @ 80 Gyr.	QCP
	HOT-MIX ASPHALT BASE COURSE WIDENING, (HOT-MIX ASPHALT BINDER IL-19 mm), 10.25"	4% @ 70 Gyr.	QC/QA
PATCHING	CLASS D PATCHES (HOT-MIX ASPHALT BINDER IL-19 mm), 13"	4% @ 70 Gyr.	QC/QA

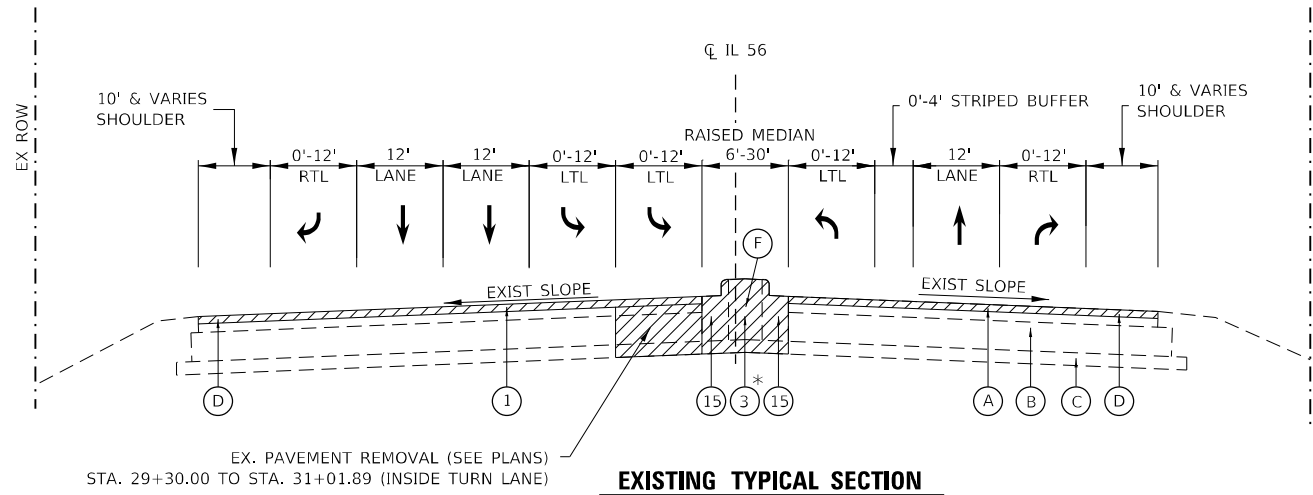
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)

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

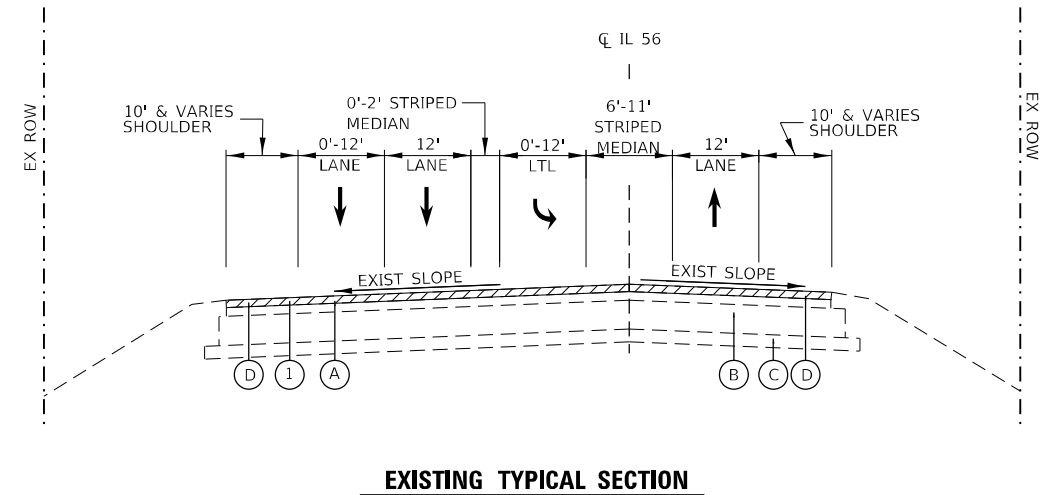
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS

	USER NAME = BonebraC	DESIGNED - CJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING AND PROPOSED TYPICAL SECTIONS IL 56 (BUTTERFIELD ROAD)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 20,0000' / in.	CHECKED - JLB	REVISED -			365	2021-040-R5	KANE	57	8
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62N62			
							ILLINOIS FED. AID PROJECT			

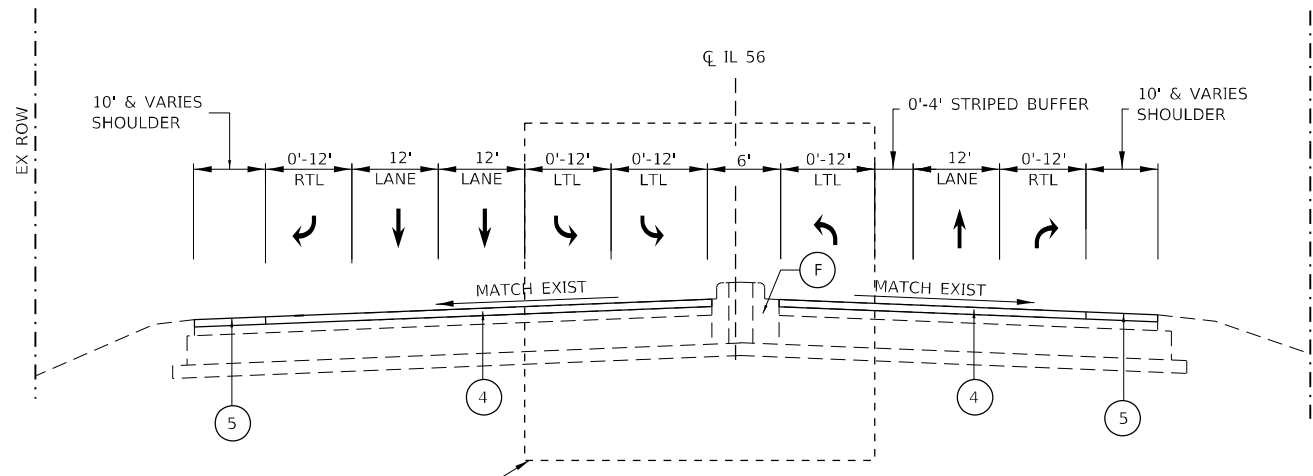
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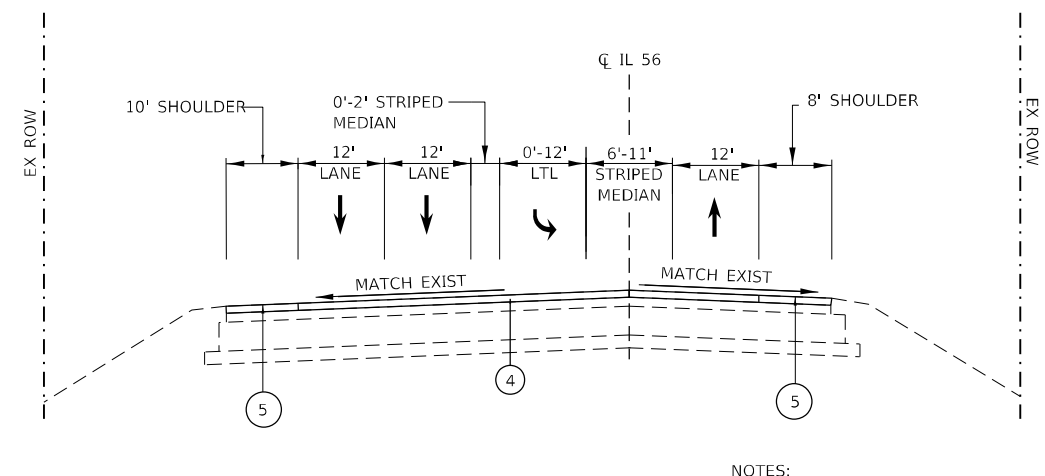
EXISTING TYPICAL SECTION
 STA. 26+85.36 TO STA. 36+32.51
 * EX. CONCRETE MEDIAN REMOVAL:
 STA. 29+76.74 TO STA. 32+14.34
 STA. 32+14.34 TO STA. 34+14.70



EXISTING TYPICAL SECTION
 STA. 36+32.51 TO STA. 40+33.89



PROPOSED TYPICAL SECTION
 STA. 26+85.36 TO STA. 36+32.51
 SEE DETAIL B AND C



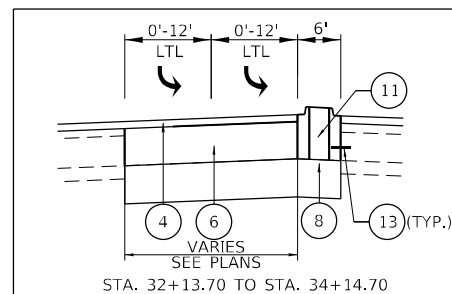
PROPOSED TYPICAL SECTION
 STA. 36+32.51 TO STA. 40+33.89

- NOTES:
1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
 2. THE CONTRACTOR SHALL MILL FIRST THEN PATCH.

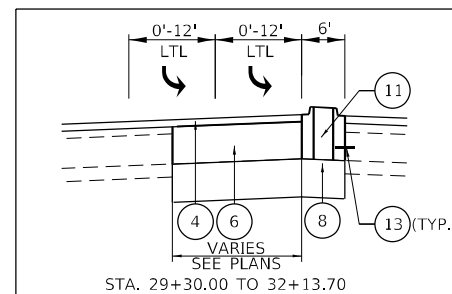
LEGEND

- (A) EXISTING HOT-MIX ASPHALT SURFACE 5" ±
- (B) EXISTING PCC BASE COURSE 9" ±
- (C) EXISTING STABILIZED SUBBASE
- (D) EXISTING PAVED SHOULDER
- (E) EXISTING AGGREGATE SHOULDER
- (F) EXISTING MEDIAN (GRASS AND/OR CONCRETE)
- (G) EXISTING GUARDRAIL TO BE REMOVED
- (1) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
- (2) PROPOSED SAW CUT
- (3) EXISTING MEDIAN REMOVAL
- (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- (5) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4"
- (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4"
- (7) NOT USED
- (8) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
- (9) PROPOSED HOT-MIX ASPHALT SHOULDER, 10"
- (10) PROPOSED AGGREGATE WEDGE SHOULDER TYPE "B"
- (11) PROPOSED CONCRETE MEDIAN, TYPE SB-6.18
- (12) PROPOSED GUARDRAIL
- (13) #6 TIE BARS AT 24" CTS
- (14) PAVEMENT REMOVAL, FULL DEPTH
- (15) PROPOSED COMBINATION CURB AND GUTTER REMOVAL

REMOVAL ITEMS



DETAIL B



DETAIL C



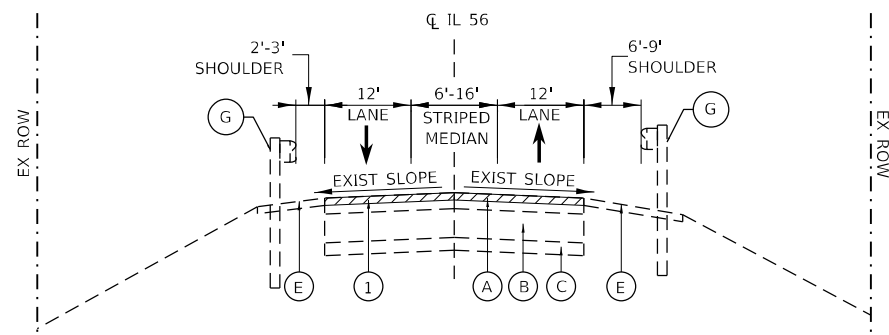
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PLOT SCALE = 20,0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 1/27/2023	CHECKED - JLB	REVISED -
	DATE - 1/27/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
 IL 56 (BUTTERFIELD ROAD)

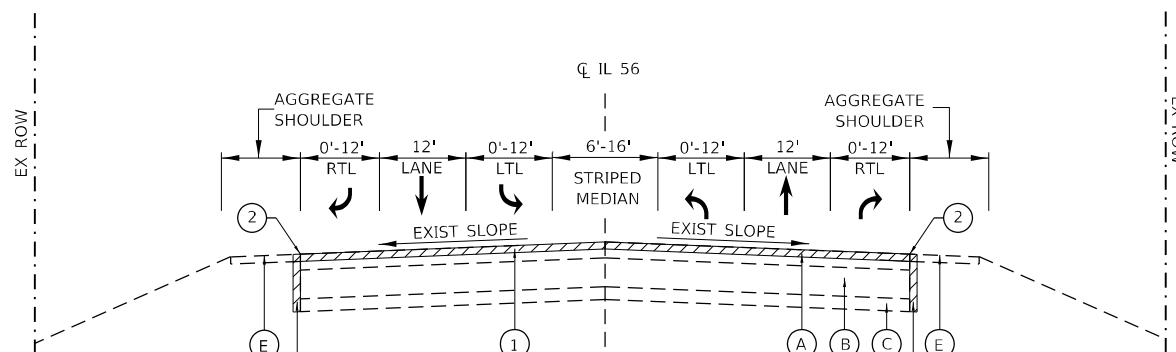
SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	9
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



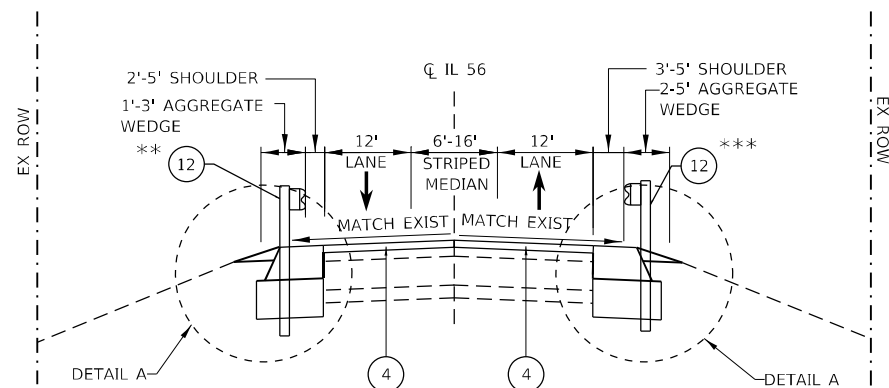
EXISTING TYPICAL SECTION

STA. 40+33.89 TO 43+64.88



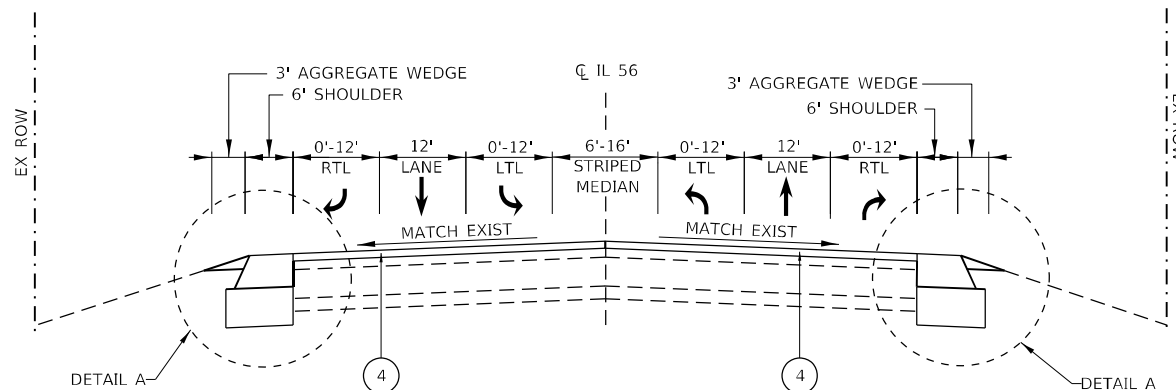
EXISTING TYPICAL SECTION

STA. 43+64.88 TO 63+75.85



PROPOSED TYPICAL SECTION

STA. 40+33.89 TO 43+64.88



PROPOSED TYPICAL SECTION

STA. 43+64.88 TO 63+75.85

5' PAVED, 3' AGGREGATE FROM:
STA. 40+61.50 TO STA. 41+16.92

2' PAVED, 1' AGGREGATE FROM:
STA. 41+16.92 TO STA. 41+82.25
STA. 42+08.81 TO STA. 43+64.87

** LEFT GUARDRAIL:
STA. 41+19.92 TO STA. 41+82.42
STA. 42+08.81 TO STA. 43+64.55

SHOULDERS FROM:
STA. 40+33.90 TO STA. 41+75.72
STA. 42+02.10 TO STA. 42+66.79

*** RIGHT GUARDRAIL:
STA. 40+37.29 TO STA. 41+74.86
STA. 42+01.29 TO STA. 42+63.79

NOTE:
CULVERT OMISSION: STA. 41+78.82 TO STA. 42+05.20.

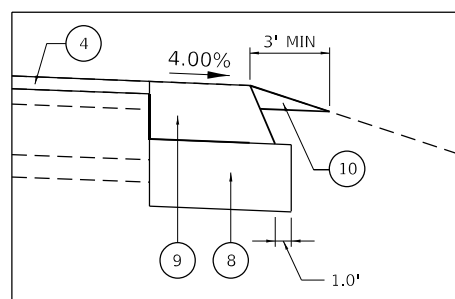
SHOULDERS FROM:
STA. 43+64.87 TO STA. 56+05.06
STA. 57+56.10 TO STA. 66+46.49

SHOULDERS FROM:
STA. 42+65.20 TO STA. 45+44.00
STA. 46+65.20 TO STA. 56+05.06
57+45.12 TO STA. 66+63.67

- NOTES:
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
 - THE CONTRACTOR SHALL MILL FIRST THEN PATCH.

LEGEND

- | | |
|--|---|
| (A) EXISTING HOT-MIX ASPHALT SURFACE 5" ± | (7) NOT USED |
| (B) EXISTING PCC BASE COURSE 9" ± | (8) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12" |
| (C) EXISTING STABILIZED SUBBASE | (9) PROPOSED HOT-MIX ASPHALT SHOULDER, 10" |
| (D) EXISTING PAVED SHOULDER | (10) PROPOSED AGGREGATE WEDGE SHOULDER TYPE "B" |
| (E) EXISTING AGGREGATE SHOULDER | (11) PROPOSED CONCRETE MEDIAN, TYPE SB-6.18 |
| (F) EXISTING MEDIAN (GRASS AND/OR CONCRETE) | (12) PROPOSED GUARDRAIL |
| (G) EXISTING GUARDRAIL TO BE REMOVED | (13) #6 TIE BARS AT 24" CTS |
| (1) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" | (14) PAVEMENT REMOVAL, FULL DEPTH |
| (2) PROPOSED SAW CUT | (15) PROPOSED COMBINATION CURB AND GUTTER REMOVAL |
| (3) EXISTING MEDIAN REMOVAL | REMOVAL ITEMS |
| (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4" | |
| (5) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4" | |
| (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4" | |



DETAIL A



USER NAME = KennedyM	DESIGNED - CJB	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 3/16/2023	CHECKED - JLB	REVISED -
	DATE - 3/16/2023	REVISED -

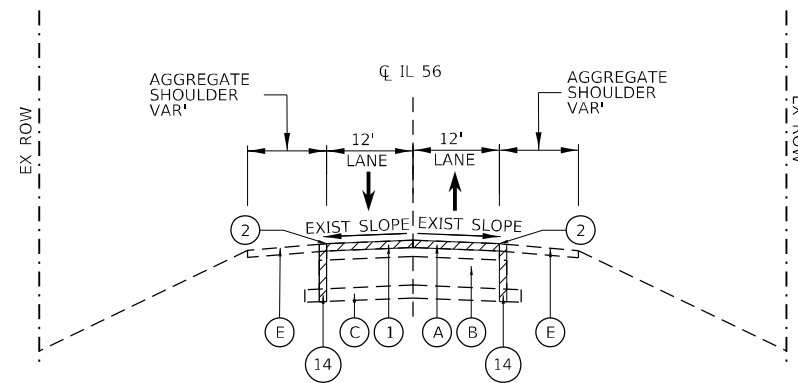
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
IL 56 (BUTTERFIELD ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

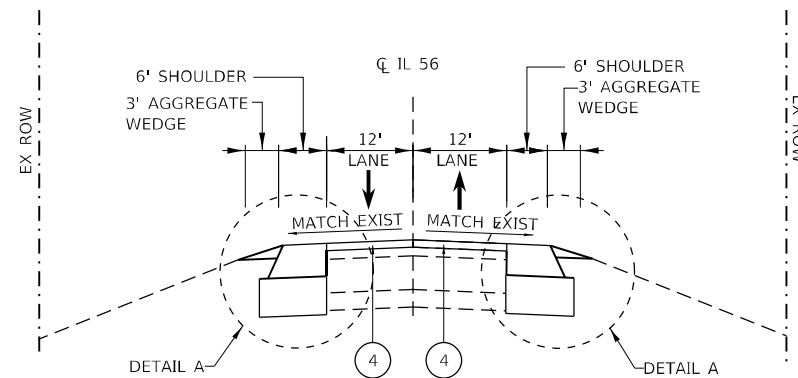
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	10
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

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EXISTING TYPICAL SECTION

STA. 63+75.85 TO 72+98.00



PROPOSED TYPICAL SECTION

STA. 63+75.85 TO 72+98.00

SHOULDERS FROM:
STA. 66+46.42 TO STA. 72+98.00

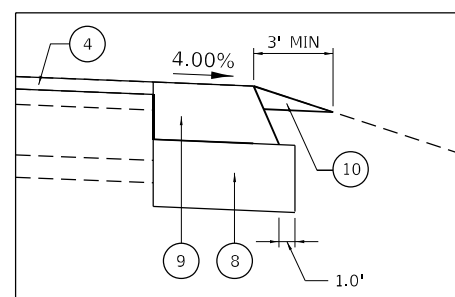
SHOULDERS FROM:
STA. 66+63.67 TO STA. 72+98.00

NOTES:

1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
2. THE CONTRACTOR SHALL MILL FIRST THEN PATCH.

LEGEND

- | | |
|--|---|
| (A) EXISTING HOT-MIX ASPHALT SURFACE 5" ± | (7) NOT USED |
| (B) EXISTING PCC BASE COURSE 9" ± | (8) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12" |
| (C) EXISTING STABILIZED SUBBASE | (9) PROPOSED HOT-MIX ASPHALT SHOULDER, 10" |
| (D) EXISTING PAVED SHOULDER | (10) PROPOSED AGGREGATE WEDGE SHOULDER TYPE "B" |
| (E) EXISTING AGGREGATE SHOULDER | (11) PROPOSED CONCRETE MEDIAN, TYPE SB-6.18 |
| (F) EXISTING MEDIAN (GRASS AND/OR CONCRETE) | (12) PROPOSED GUARDRAIL |
| (G) EXISTING GUARDRAIL TO BE REMOVED | (13) #6 TIE BARS AT 24" CTS |
| (1) PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" | (14) PAVEMENT REMOVAL, FULL DEPTH |
| (2) PROPOSED SAW CUT | (15) PROPOSED COMBINATION CURB AND GUTTER REMOVAL |
| (3) EXISTING MEDIAN REMOVAL | |
| (4) PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4" | |
| (5) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 3/4" | |
| (6) PROPOSED HOT-MIX ASPHALT BASE COURSE WIDENING, 10 1/4" | |
- REMOVAL ITEMS



DETAIL A



USER NAME = KennedyM	DESIGNED - CJB	REVISED -
PLOT SCALE = 20,0000 * / in.	DRAWN - CJB	REVISED -
PLOT DATE = 3/16/2023	CHECKED - JLB	REVISED -
	DATE - 3/16/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
IL 56 (BUTTERFIELD ROAD)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	11
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

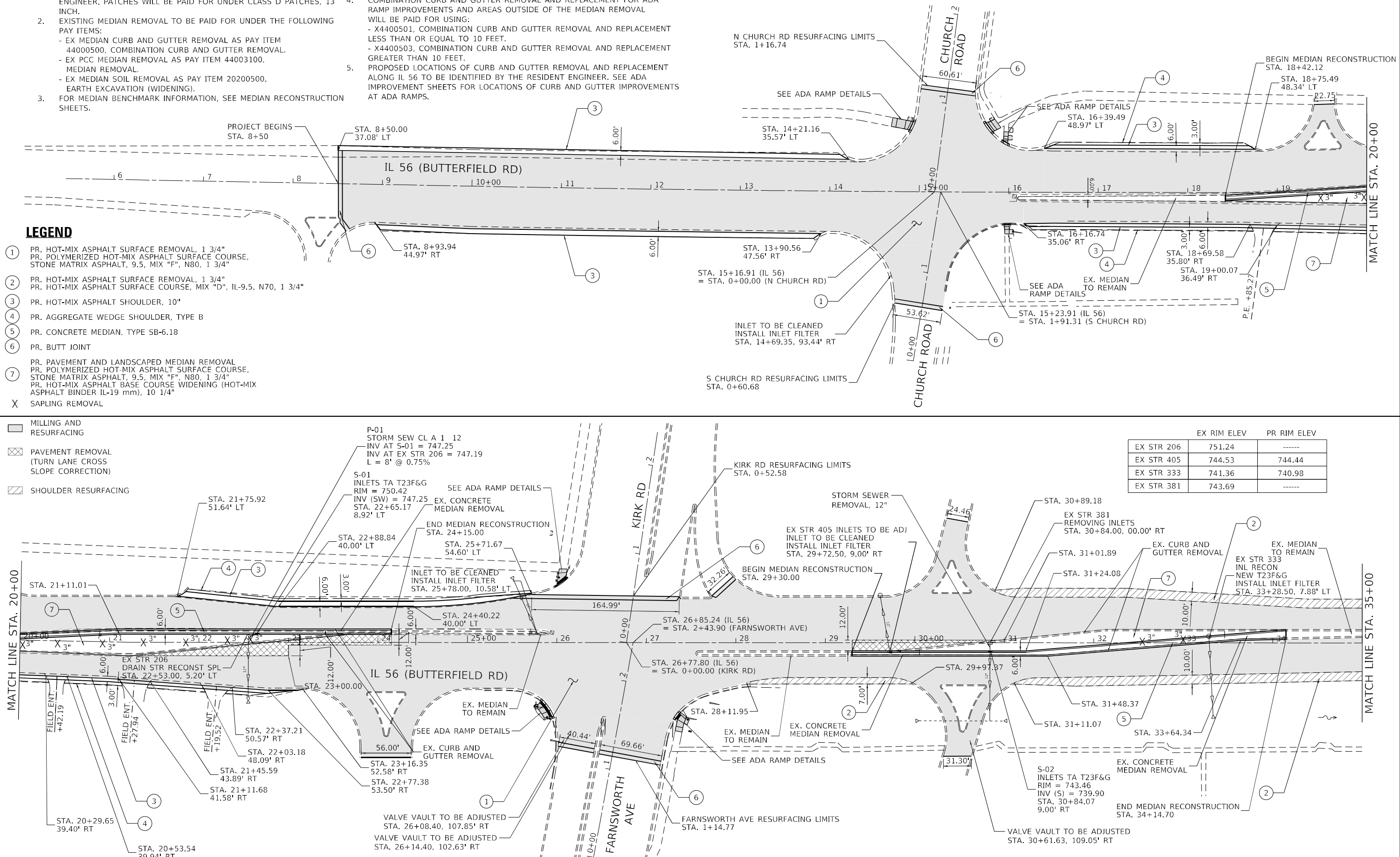
NOTES:

- HMA PATCHING LOCATIONS TO BE IDENTIFIED BY RESIDENT ENGINEER. PATCHES WILL BE PAID FOR UNDER CLASS D PATCHES, 13 INCH.
- EXISTING MEDIAN REMOVAL TO BE PAID FOR UNDER THE FOLLOWING PAY ITEMS:
 - EX MEDIAN CURB AND GUTTER REMOVAL AS PAY ITEM 44000500, COMBINATION CURB AND GUTTER REMOVAL.
 - EX PCC MEDIAN REMOVAL AS PAY ITEM 44003100, MEDIAN REMOVAL.
 - EX MEDIAN SOIL REMOVAL AS PAY ITEM 20200500, EARTH EXCAVATION (WIDENING).
- FOR MEDIAN BENCHMARK INFORMATION, SEE MEDIAN RECONSTRUCTION SHEETS.
- COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT FOR ADA RAMP IMPROVEMENTS AND AREAS OUTSIDE OF THE MEDIAN REMOVAL WILL BE PAID FOR USING:
 - X4400501, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET.
 - X4400503, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET.
- PROPOSED LOCATIONS OF CURB AND GUTTER REMOVAL AND REPLACEMENT ALONG IL 56 TO BE IDENTIFIED BY THE RESIDENT ENGINEER. SEE ADA IMPROVEMENT SHEETS FOR LOCATIONS OF CURB AND GUTTER IMPROVEMENTS AT ADA RAMP.

LEGEND

- PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
 PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
- PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"
 PR. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 3/4"
- PR. HOT-MIX ASPHALT SHOULDER, 10"
- PR. AGGREGATE WEDGE SHOULDER, TYPE B
- PR. CONCRETE MEDIAN, TYPE SB-6.18
- PR. BUTT JOINT
- PR. PAVEMENT AND LANDSCAPED MEDIAN REMOVAL
 PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 PR. HOT-MIX ASPHALT BASE COURSE WIDENING (HOT-MIX ASPHALT BINDER IL-19 mm), 10 1/4"
- X SAPLING REMOVAL

- MILLING AND RESURFACING
- PAVEMENT REMOVAL (TURN LANE CROSS SLOPE CORRECTION)
- SHOULDER RESURFACING



	EX RIM ELEV	PR RIM ELEV
EX STR 206	751.24	-----
EX STR 405	744.53	744.44
EX STR 333	741.36	740.98
EX STR 381	743.69	-----



USER NAME = BonebraC	DESIGNED - CJB	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 1/17/2023	CHECKED - JLB	REVISED -
	DATE - 1/17/2023	REVISED -

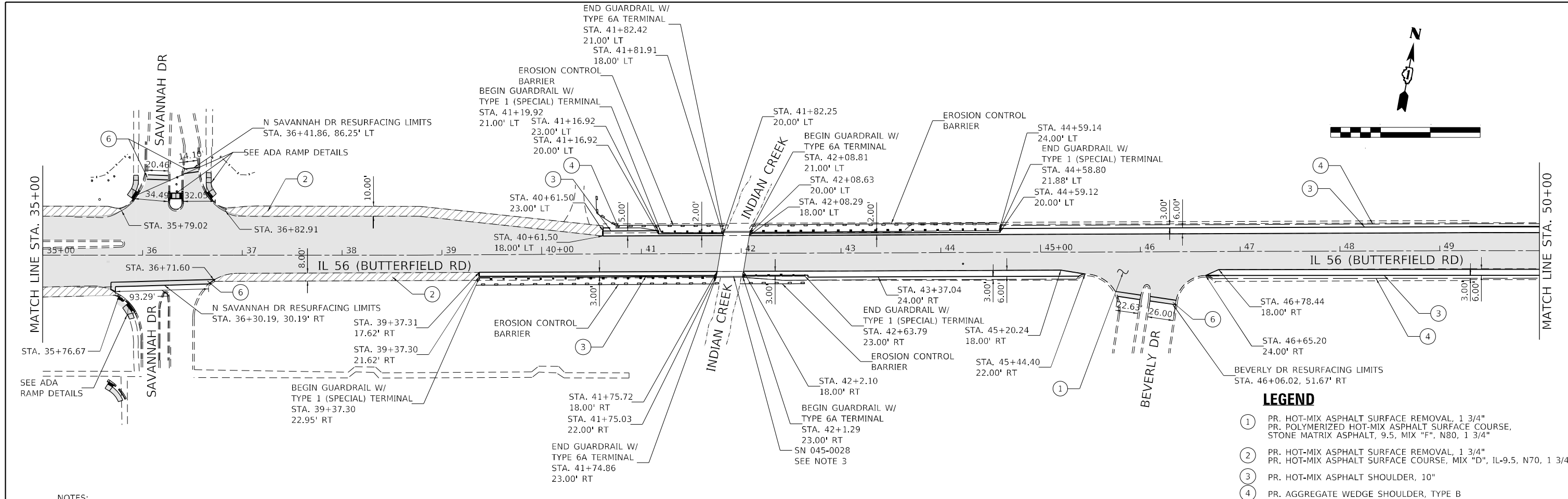
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY IMPROVEMENT PLAN
IL 56 (BUTTERFIELD ROAD)

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 8+00 TO STA. 35+00

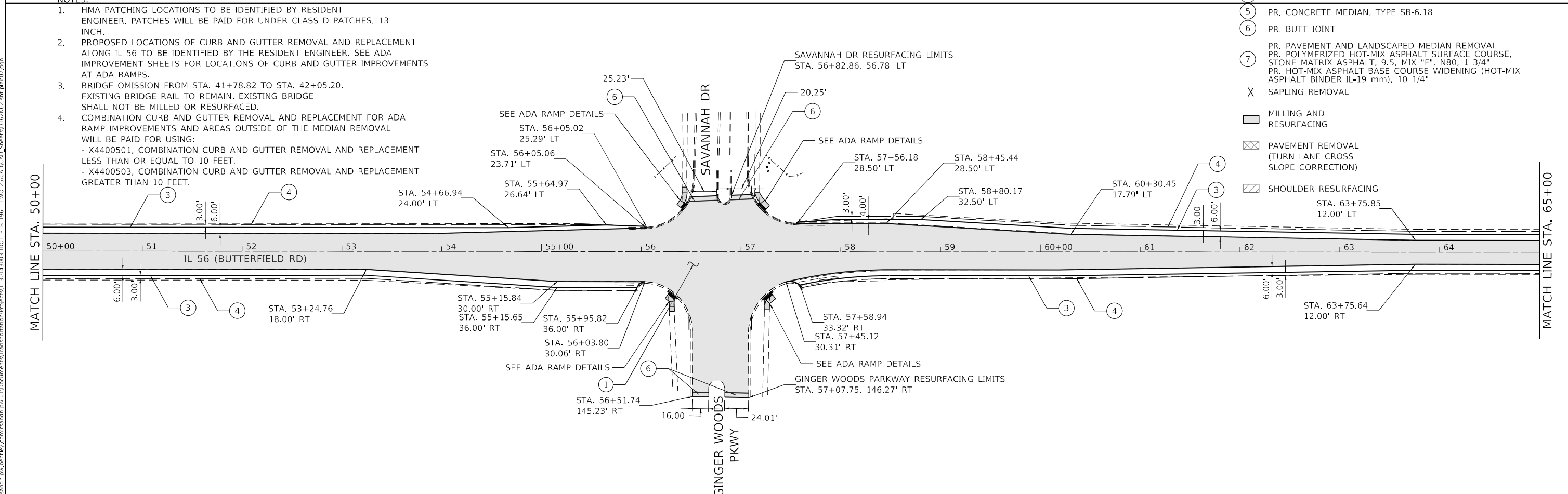
F.A.P. RTE. 365	SECTION 2021-040-R5	COUNTY KANE	TOTAL SHEETS 57	SHEET NO. 12
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

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- LEGEND**
- ① PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - ② PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PR. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 3/4"
 - ③ PR. HOT-MIX ASPHALT SHOULDER, 10"
 - ④ PR. AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑤ PR. CONCRETE MEDIAN, TYPE SB-6.18
 - ⑥ PR. BUTT JOINT
 - ⑦ PR. PAVEMENT AND LANDSCAPED MEDIAN REMOVAL
PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
PR. HOT-MIX ASPHALT BASE COURSE WIDENING (HOT-MIX ASPHALT BINDER IL-19 mm), 10 1/4"
 - X SAPLING REMOVAL
- MILLING AND RESURFACING
- ⊗ PAVEMENT REMOVAL (TURN LANE CROSS SLOPE CORRECTION)
- ▨ SHOULDER RESURFACING

- NOTES:**
- HMA PATCHING LOCATIONS TO BE IDENTIFIED BY RESIDENT ENGINEER. PATCHES WILL BE PAID FOR UNDER CLASS D PATCHES, 13 INCH.
 - PROPOSED LOCATIONS OF CURB AND GUTTER REMOVAL AND REPLACEMENT ALONG IL 56 TO BE IDENTIFIED BY THE RESIDENT ENGINEER. SEE ADA IMPROVEMENT SHEETS FOR LOCATIONS OF CURB AND GUTTER IMPROVEMENTS AT ADA RAMP.
 - BRIDGE OMISSION FROM STA. 41+78.82 TO STA. 42+05.20. EXISTING BRIDGE RAIL TO REMAIN. EXISTING BRIDGE SHALL NOT BE MILLED OR RESURFACED.
 - COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT FOR ADA RAMP IMPROVEMENTS AND AREAS OUTSIDE OF THE MEDIAN REMOVAL WILL BE PAID FOR USING:
- X4400501, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET.
- X4400503, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET.



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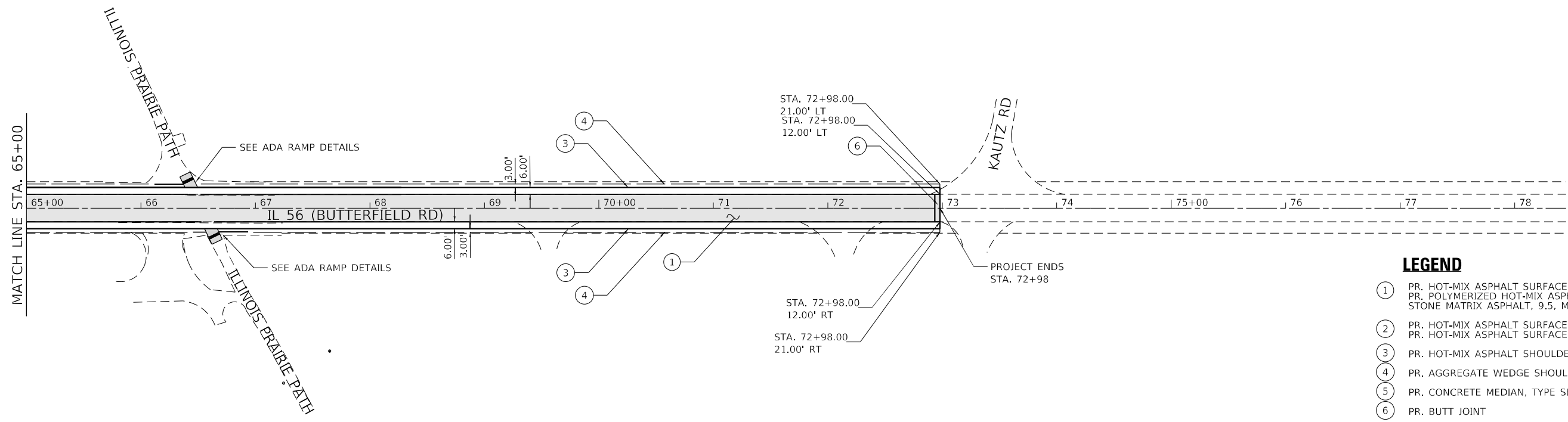


USER NAME = BonebraC	DESIGNED - CJB	REVISED -
DRAWN - CJB	REVISED -	
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PLOT DATE = 1/17/2023	DATE - 1/17/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY IMPROVEMENT PLAN	
IL 56 (BUTTERFIELD ROAD)	
SCALE: 1"=50'	SHEET 2 OF 3 SHEETS STA. 35+00 TO STA. 65+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	13
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- ① PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4"
 - ② PR. HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" PR. HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1 3/4"
 - ③ PR. HOT-MIX ASPHALT SHOULDER, 10"
 - ④ PR. AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑤ PR. CONCRETE MEDIAN, TYPE SB-6.18
 - ⑥ PR. BUTT JOINT
 - ⑦ PR. PAVEMENT AND LANDSCAPED MEDIAN REMOVAL PR. POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1 3/4" PR. HOT-MIX ASPHALT BASE COURSE WIDENING (HOT-MIX ASPHALT BINDER IL-19 mm), 10 1/4"
 - X SAPLING REMOVAL

- ▭ MILLING AND RESURFACING
- ⊗ PAVEMENT REMOVAL (TURN LANE CROSS SLOPE CORRECTION)
- ▨ SHOULDER RESURFACING

- NOTES:**
- HMA PATCHING LOCATIONS TO BE IDENTIFIED BY RESIDENT ENGINEER. PATCHES WILL BE PAID FOR UNDER CLASS D PATCHES, 13 INCH.
 - PROPOSED LOCATIONS OF CURB AND GUTTER REMOVAL AND REPLACEMENT ALONG IL 56 TO BE IDENTIFIED BY THE RESIDENT ENGINEER. SEE ADA IMPROVEMENT SHEETS FOR LOCATIONS OF CURB AND GUTTER IMPROVEMENTS AT ADA RAMPS.
 - COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT FOR ADA RAMP IMPROVEMENTS AND AREAS OUTSIDE OF THE MEDIAN REMOVAL WILL BE PAID FOR USING:
 - X4400501, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET.
 - X4400503, COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET.

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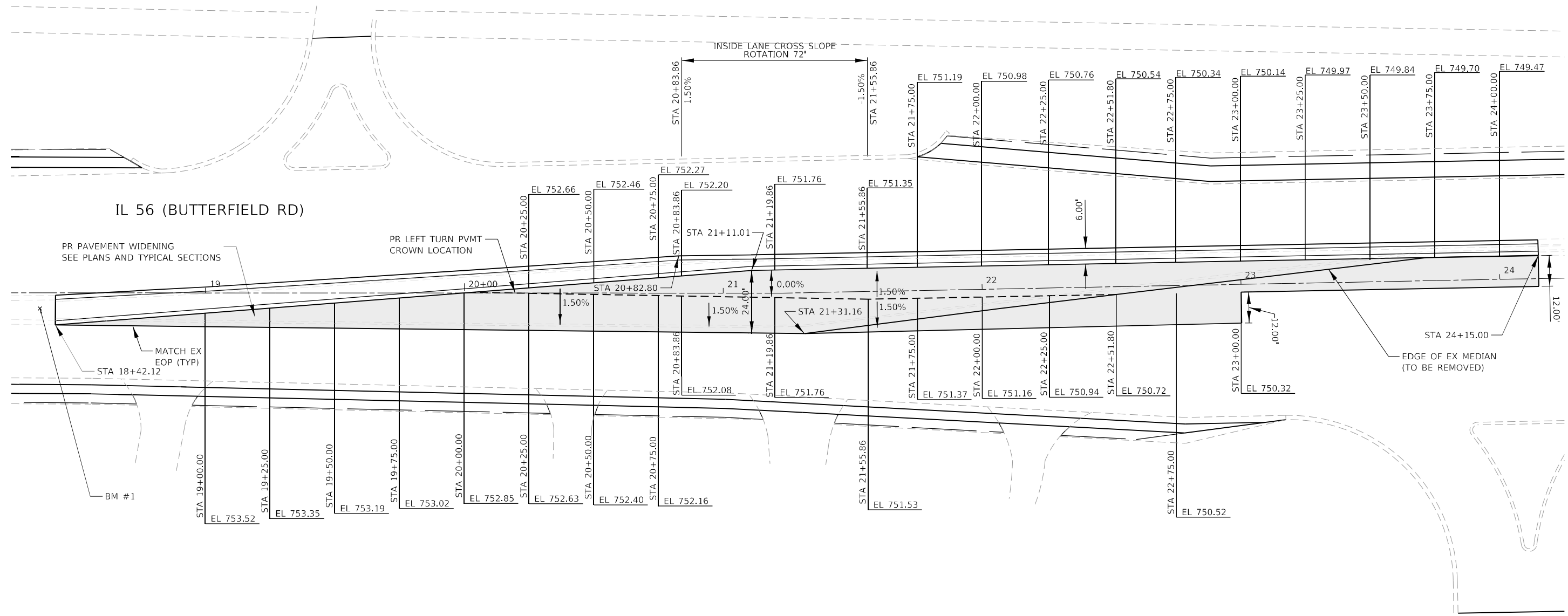
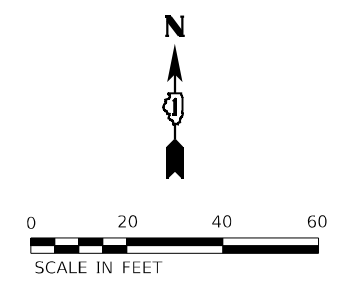


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PLOT DATE = 1/17/2023	DATE - 1/17/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY IMPROVEMENT PLAN			
IL 56 (BUTTERFIELD ROAD)			
SCALE: 1"=50'	SHEET 3	OF 3 SHEETS	STA. 65+00 TO STA. 78+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	14
CONTRACT NO. 62N62			ILLINOIS FED. AID PROJECT	



LEGEND

 PAVEMENT WIDENING

BM #1
 "X" IN CENTER CONC MEDIAN
 NORTHING: 1874367.788
 EASTING: 998072.653
 ELEV: 754.648
 STA. 18+36.12, 6.06' RT

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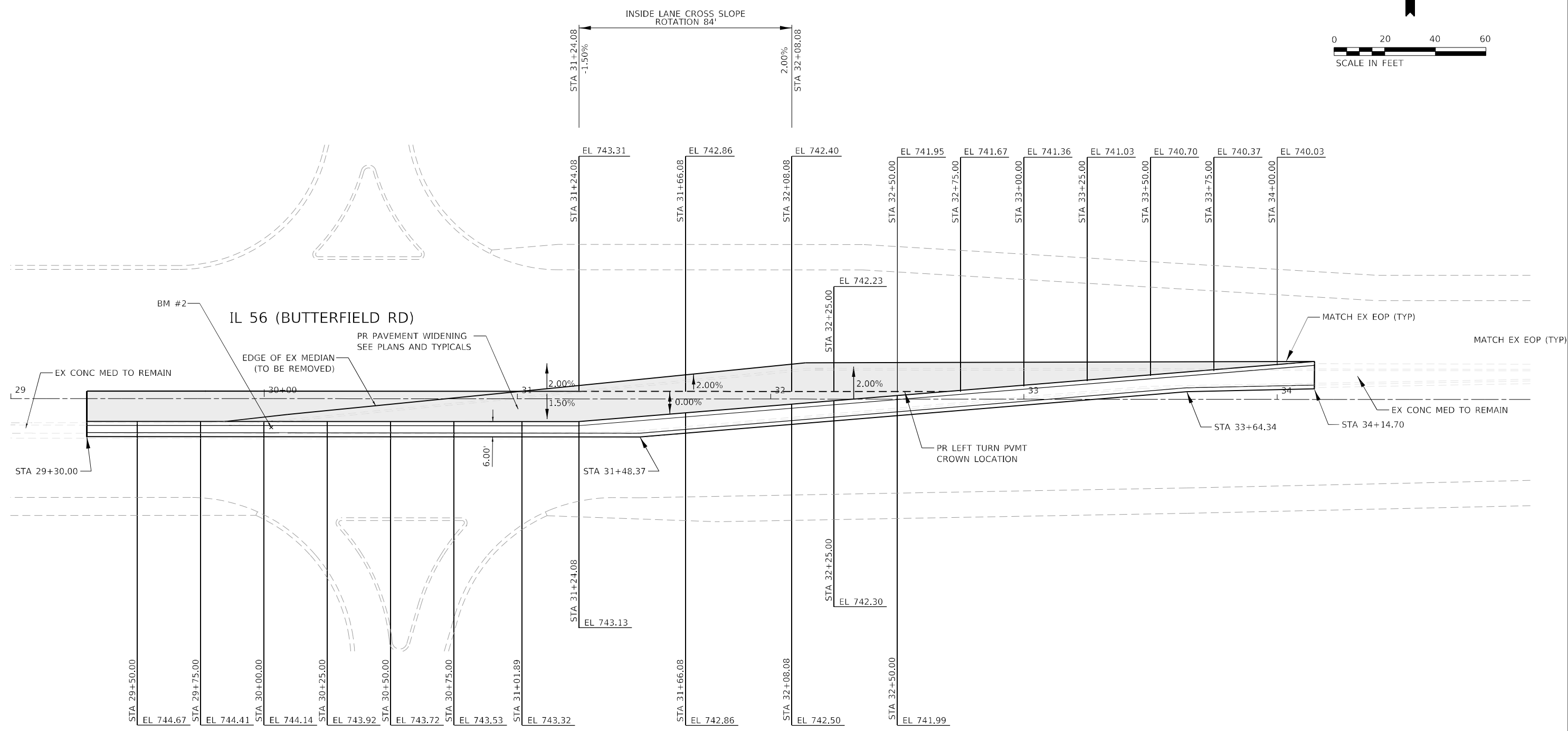
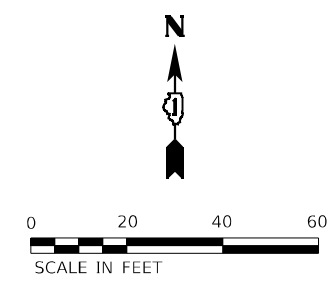
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PLOT SCALE = 100,0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 1/27/2023	CHECKED - JLB	REVISED -
	DATE - 1/27/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**MEDIAN RECONSTRUCTION PLAN
 IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=20' SHEET 1 OF 2 SHEETS STA. 18+25 TO STA. 24+25

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	15
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



LEGEND


 PAVEMENT WIDENING

BM #2
 "X" IN CENTER CONC MEDIAN
 NORTHING: 1874570.190
 EASTING: 999221.768
 ELEV: 744.842
 STA. 30+02.80, 11.30' RT

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 PLOT DATE: 1/27/2023
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USER NAME = BonebraC	DESIGNED - CJB	REVISED -
DRAWN - CJB	REVISIONS -	
PLOT SCALE = 100,000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED -

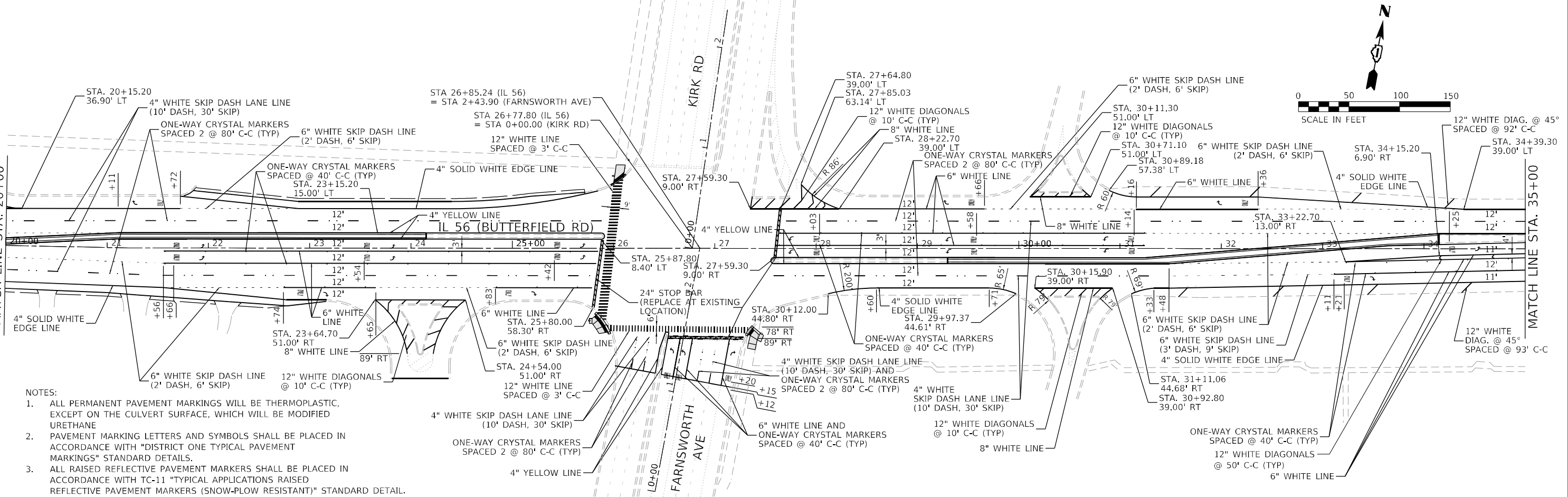
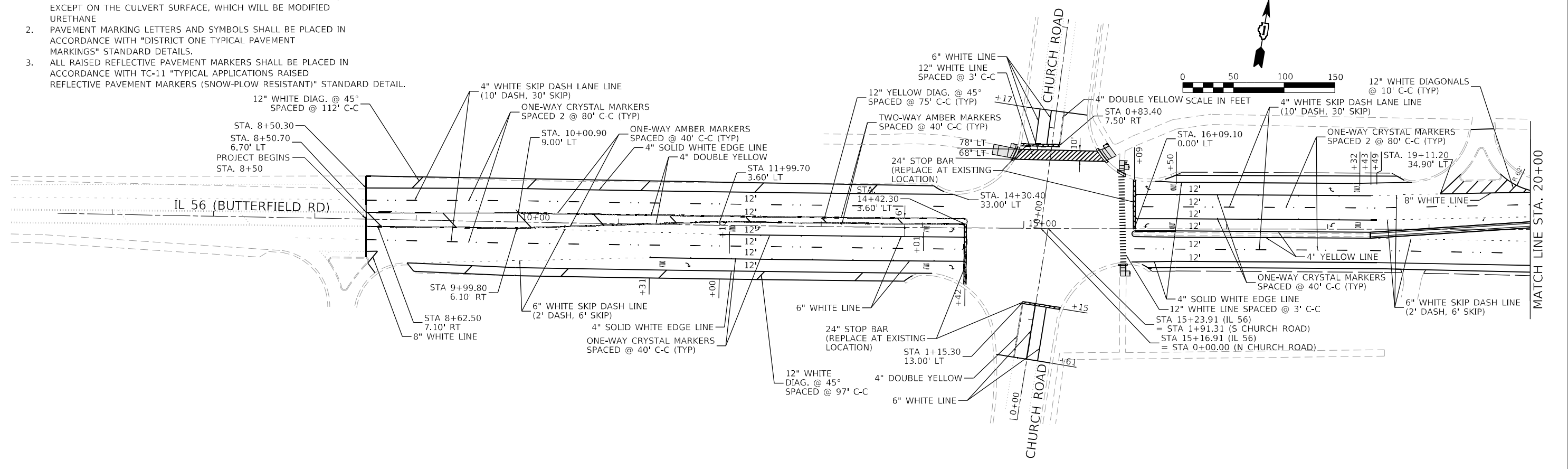
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MEDIAN RECONSTRUCTION PLAN IL 56 (BUTTERFIELD ROAD)	
SCALE: 1"=20'	SHEET 2 OF 2 SHEETS
STA. 29+00	TO STA. 35+00

F.A.P. RTE. 365	SECTION 2021-040-R5	COUNTY KANE	TOTAL SHEETS 57	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N62	

NOTES:

- ALL PERMANENT PAVEMENT MARKINGS WILL BE THERMOPLASTIC, EXCEPT ON THE CULVERT SURFACE, WHICH WILL BE MODIFIED URETHANE
- PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAILS.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



NOTES:

- ALL PERMANENT PAVEMENT MARKINGS WILL BE THERMOPLASTIC, EXCEPT ON THE CULVERT SURFACE, WHICH WILL BE MODIFIED URETHANE
- PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAILS.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



USER NAME = KennedyM	DESIGNED - CJB	REVISED -
	DRAWN - CJB	REVISED -
PLOT SCALE = 100,000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 3/9/2023	DATE = 3/9/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

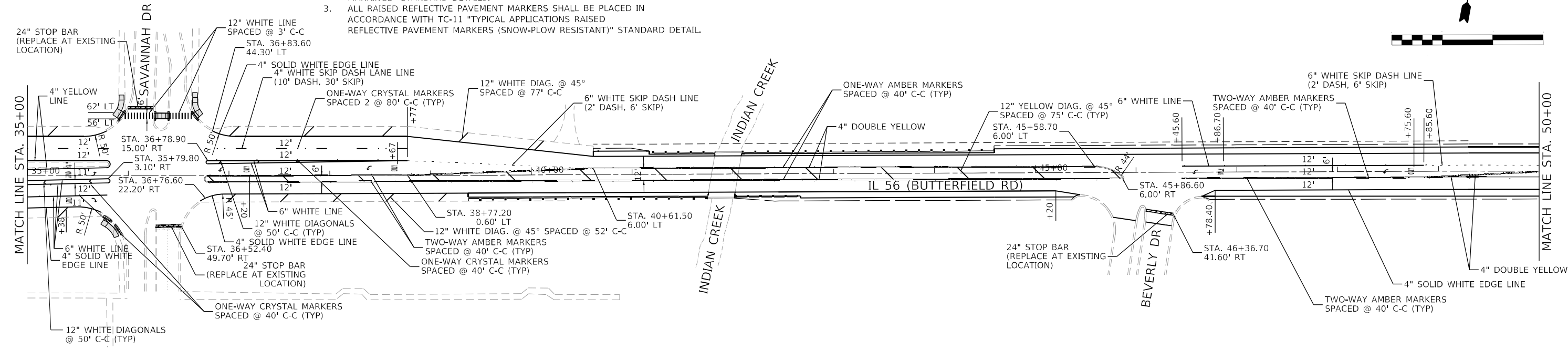
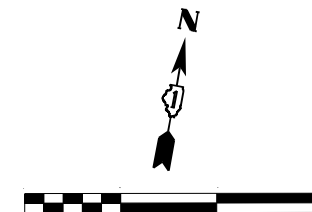
PAVEMENT MARKING AND SIGNING PLAN
IL 56 (BUTTERFIELD ROAD)

SCALE: 1"=50' SHEET 1 OF 3 SHEETS STA. 8+00 TO STA. 35+00

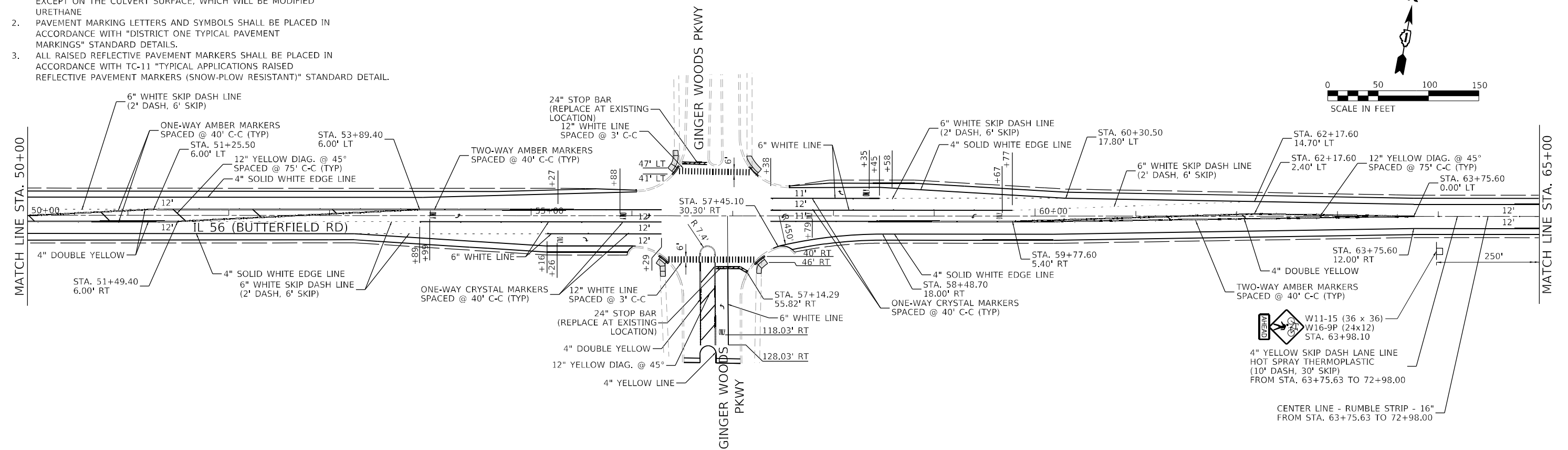
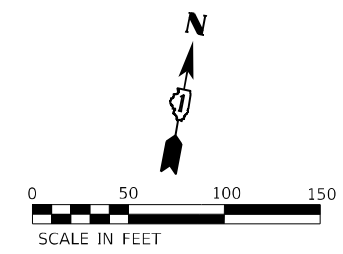
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	17
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

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- NOTES:
1. ALL PERMANENT PAVEMENT MARKINGS WILL BE THERMOPLASTIC, EXCEPT ON THE CULVERT SURFACE, WHICH WILL BE MODIFIED URETHANE
 2. PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAILS.
 3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



- NOTES:
1. ALL PERMANENT PAVEMENT MARKINGS WILL BE THERMOPLASTIC, EXCEPT ON THE CULVERT SURFACE, WHICH WILL BE MODIFIED URETHANE
 2. PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAILS.
 3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



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 PLOT DATE = 1/17/2023



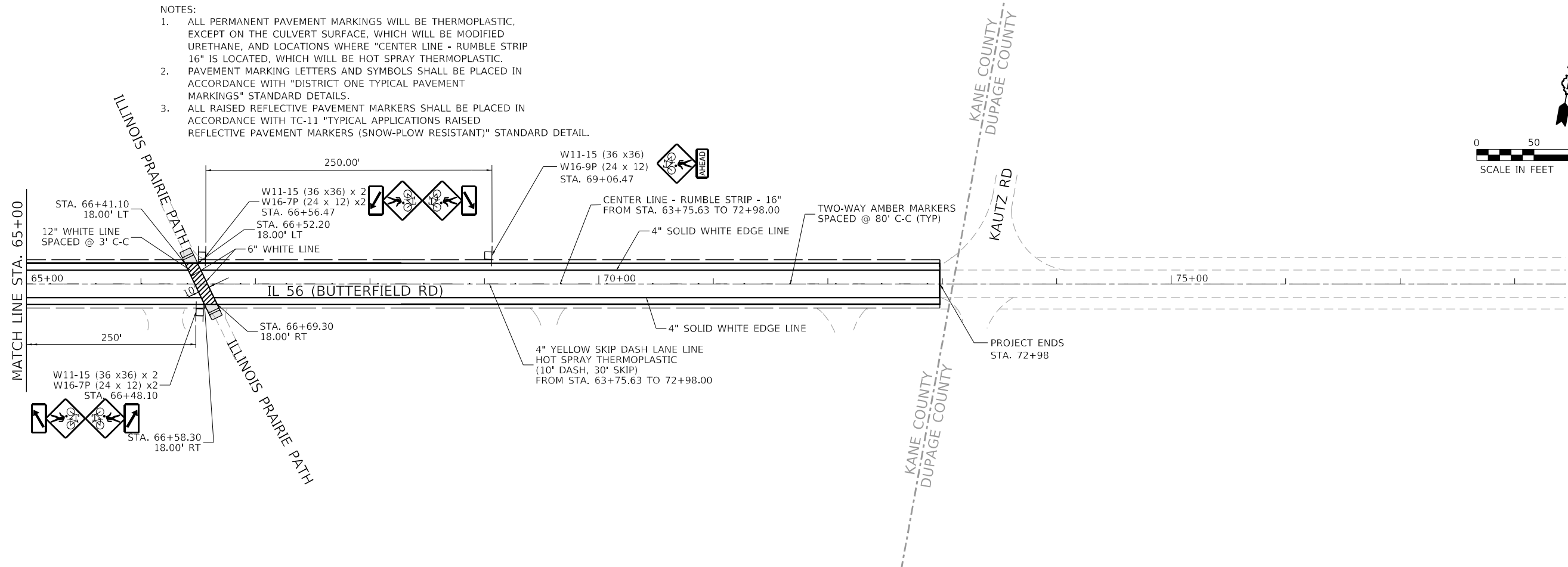
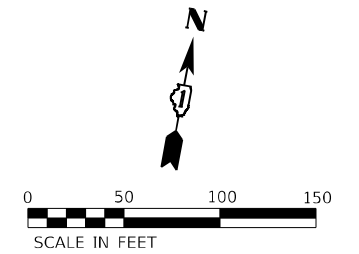
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	DRAWN - CJB	REVISED -
	CHECKED - JLB	REVISED -
	DATE - 1/17/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNING PLAN
IL 56 (BUTTERFIELD ROAD)

F.A.P. RTE. 365	SECTION 2021-040-R5	COUNTY KANE	TOTAL SHEETS 57	SHEET NO. 18
SCALE: 1"=50'			CONTRACT NO. 62N62	
SHEET 2 OF 3 SHEETS		ILLINOIS FED. AID PROJECT		

- NOTES:
1. ALL PERMANENT PAVEMENT MARKINGS WILL BE THERMOPLASTIC, EXCEPT ON THE CULVERT SURFACE, WHICH WILL BE MODIFIED URETHANE, AND LOCATIONS WHERE "CENTER LINE - RUMBLE STRIP 16" IS LOCATED, WHICH WILL BE HOT SPRAY THERMOPLASTIC.
 2. PAVEMENT MARKING LETTERS AND SYMBOLS SHALL BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAILS.
 3. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.



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USER NAME = BonebraC	DESIGNED - CJB	REVISED -
	DRAWN - CJB	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JLB	REVISED -
PLOT DATE = 1/17/2023	DATE - 1/17/2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING AND SIGNING PLAN IL 56 (BUTTERFIELD ROAD)			
SCALE: 1"=50'	SHEET 3	OF 3 SHEETS	STA. 65+00 TO STA. 78+00

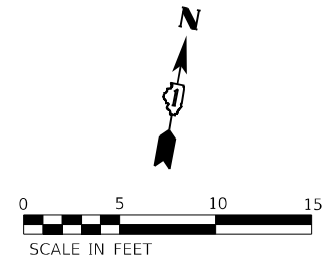
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	19
CONTRACT NO. 62N62			ILLINOIS FED. AID PROJECT	

ADA LEGEND



-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. EXISTING CONDITIONS HAVE NOT BEEN SURVEYED, ALL DIMENSIONS AND REMOVAL SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON DESIGN REQUIREMENTS. PROPOSED ADA DESIGN SHOWN, INCLUDING DIMENSIONS ARE APPROXIMATE. ADA IMPROVEMENTS SHALL BE CONSTRUCTED PER STANDARD DRAWINGS.

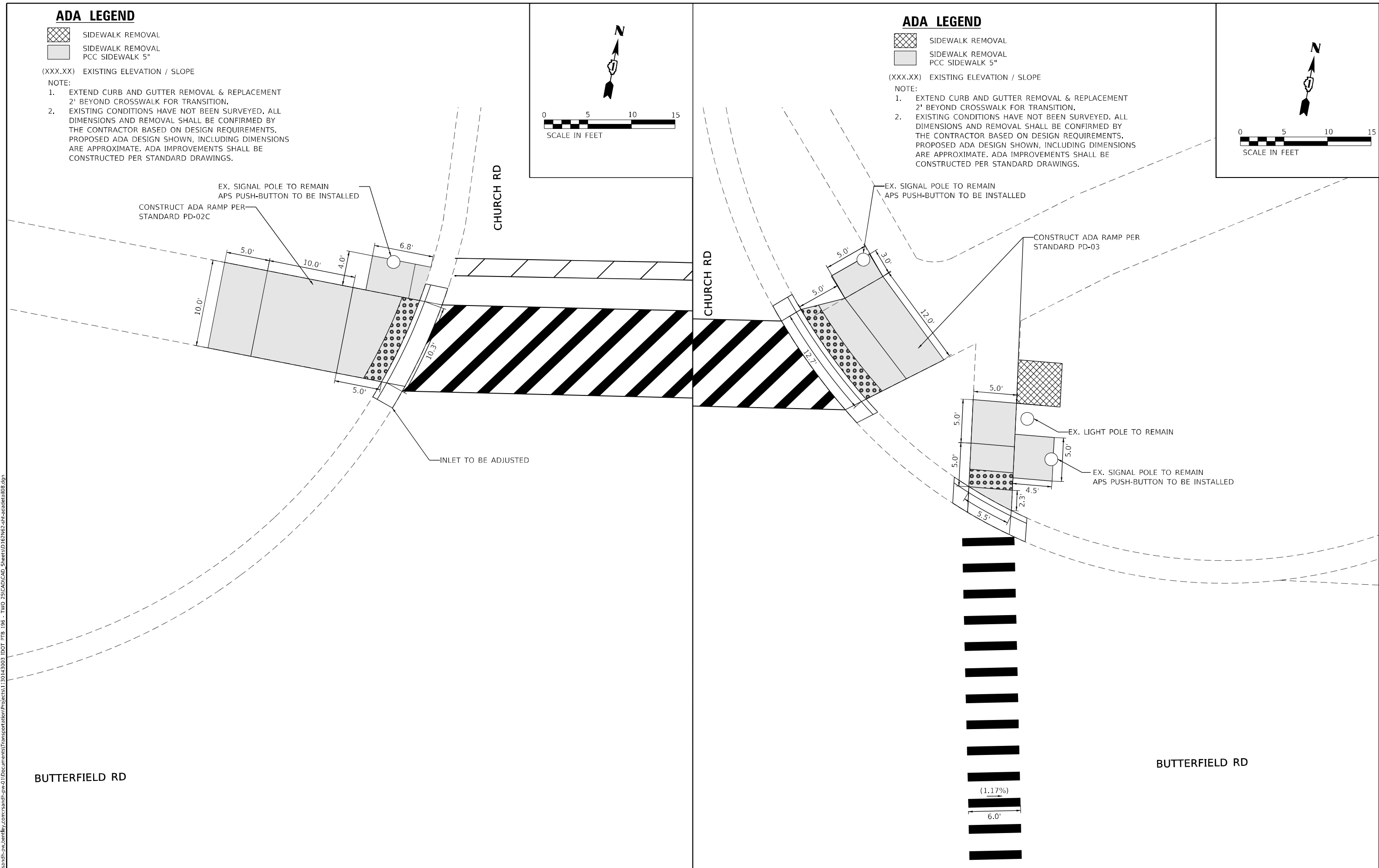
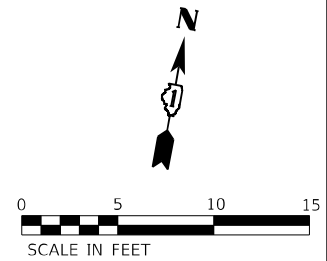


ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. EXISTING CONDITIONS HAVE NOT BEEN SURVEYED, ALL DIMENSIONS AND REMOVAL SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON DESIGN REQUIREMENTS. PROPOSED ADA DESIGN SHOWN, INCLUDING DIMENSIONS ARE APPROXIMATE. ADA IMPROVEMENTS SHALL BE CONSTRUCTED PER STANDARD DRAWINGS.



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BUTTERFIELD RD

CHURCH RD

CHURCH RD

BUTTERFIELD RD



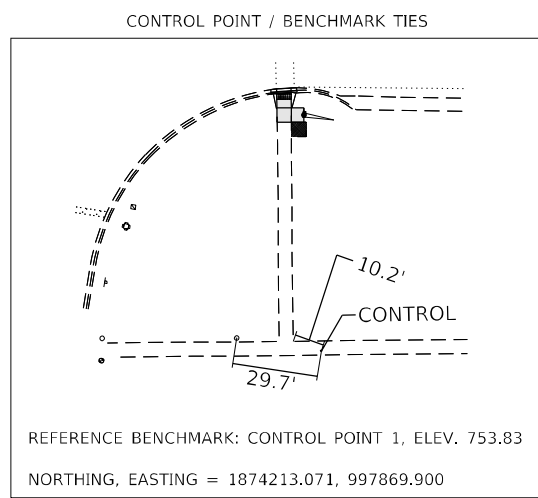
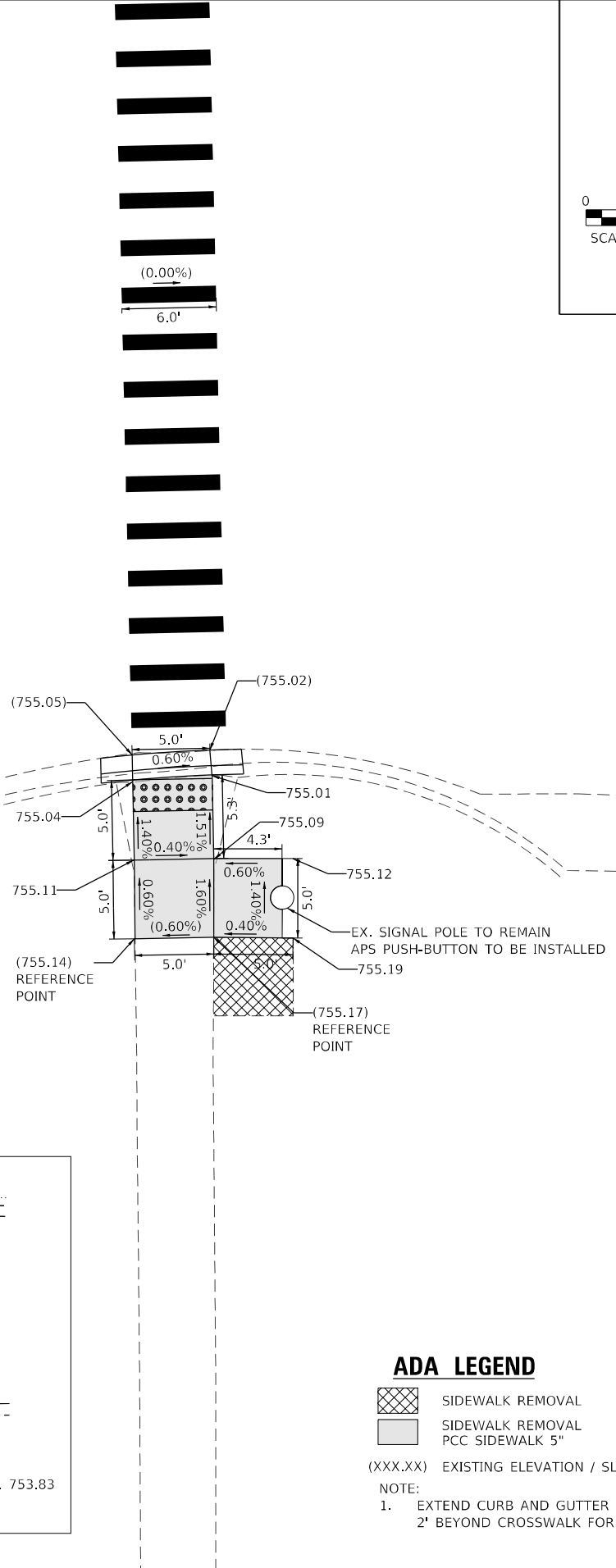
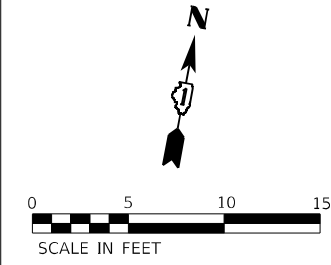
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DRAWN - CJB	REVISED -	
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PLOT DATE = 3/15/2023	DATE - 3/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	20
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



ADA LEGEND

- SIDEWALK REMOVAL
- SIDEWALK REMOVAL PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

- NOTE:
 1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.

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PLOT DATE = 3/15/2023	CHECKED - JLB	REVISED -
	DATE - 3/15/2023	REVISED -



**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

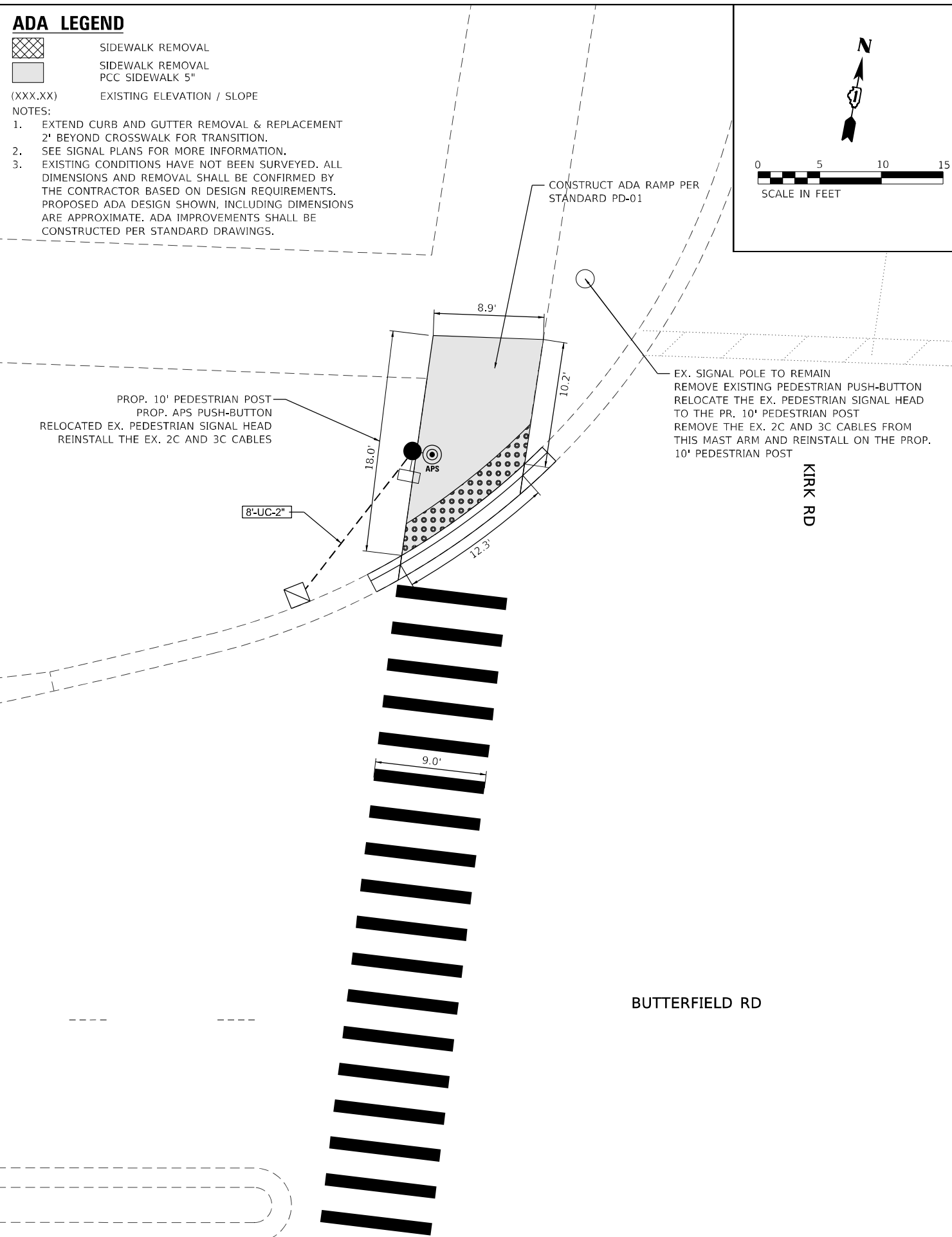
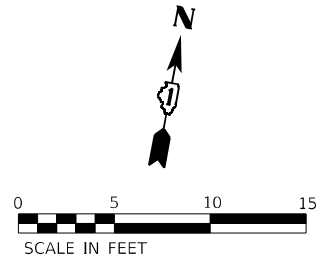
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	21
			CONTRACT NO. 62N62	
		ILLINOIS	FED. AID PROJECT	

ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

NOTES:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. SEE SIGNAL PLANS FOR MORE INFORMATION.
3. EXISTING CONDITIONS HAVE NOT BEEN SURVEYED. ALL DIMENSIONS AND REMOVAL SHALL BE CONFIRMED BY THE CONTRACTOR BASED ON DESIGN REQUIREMENTS. PROPOSED ADA DESIGN SHOWN, INCLUDING DIMENSIONS ARE APPROXIMATE. ADA IMPROVEMENTS SHALL BE CONSTRUCTED PER STANDARD DRAWINGS.



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PLOT DATE = 3/15/2023	CHECKED - JLB	REVISED -
	DATE - 3/15/2023	REVISED -

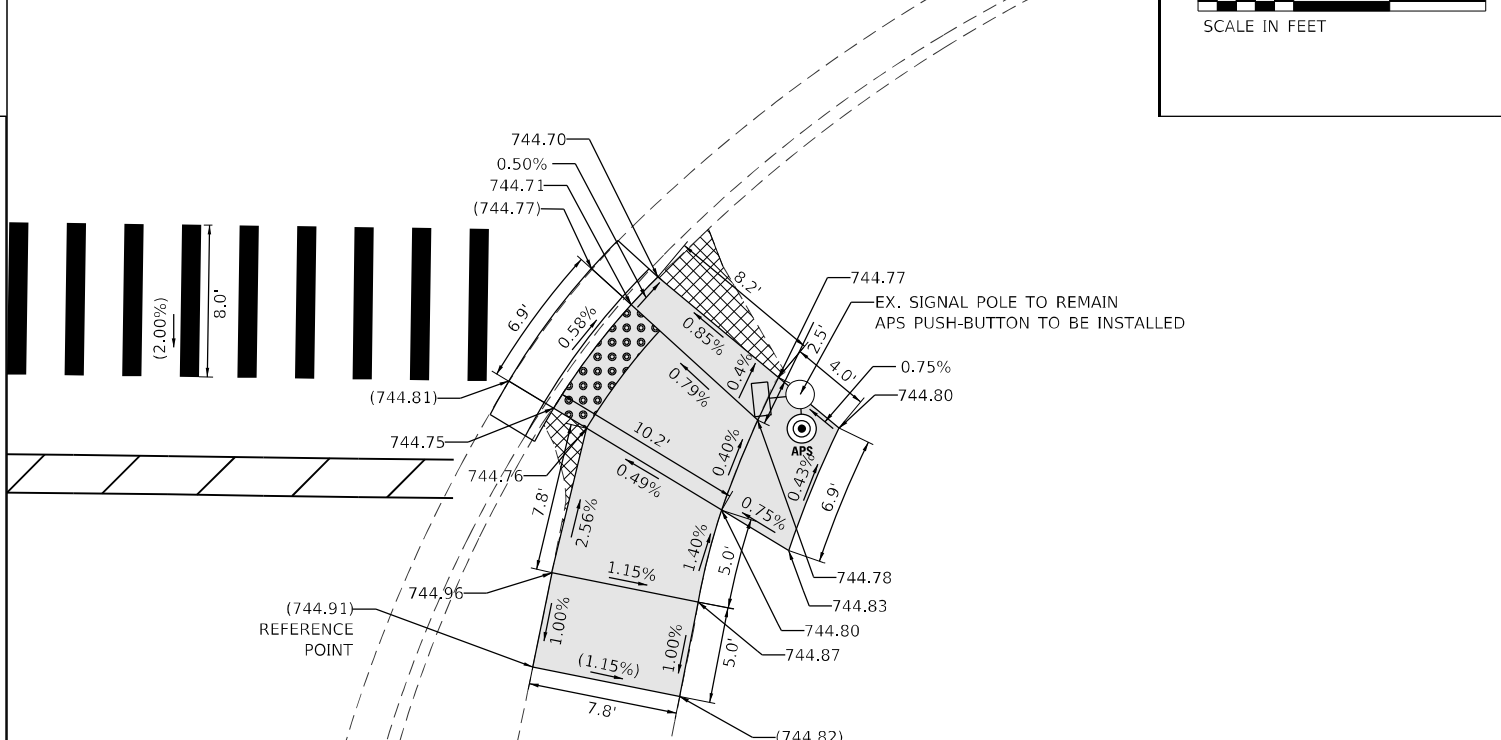
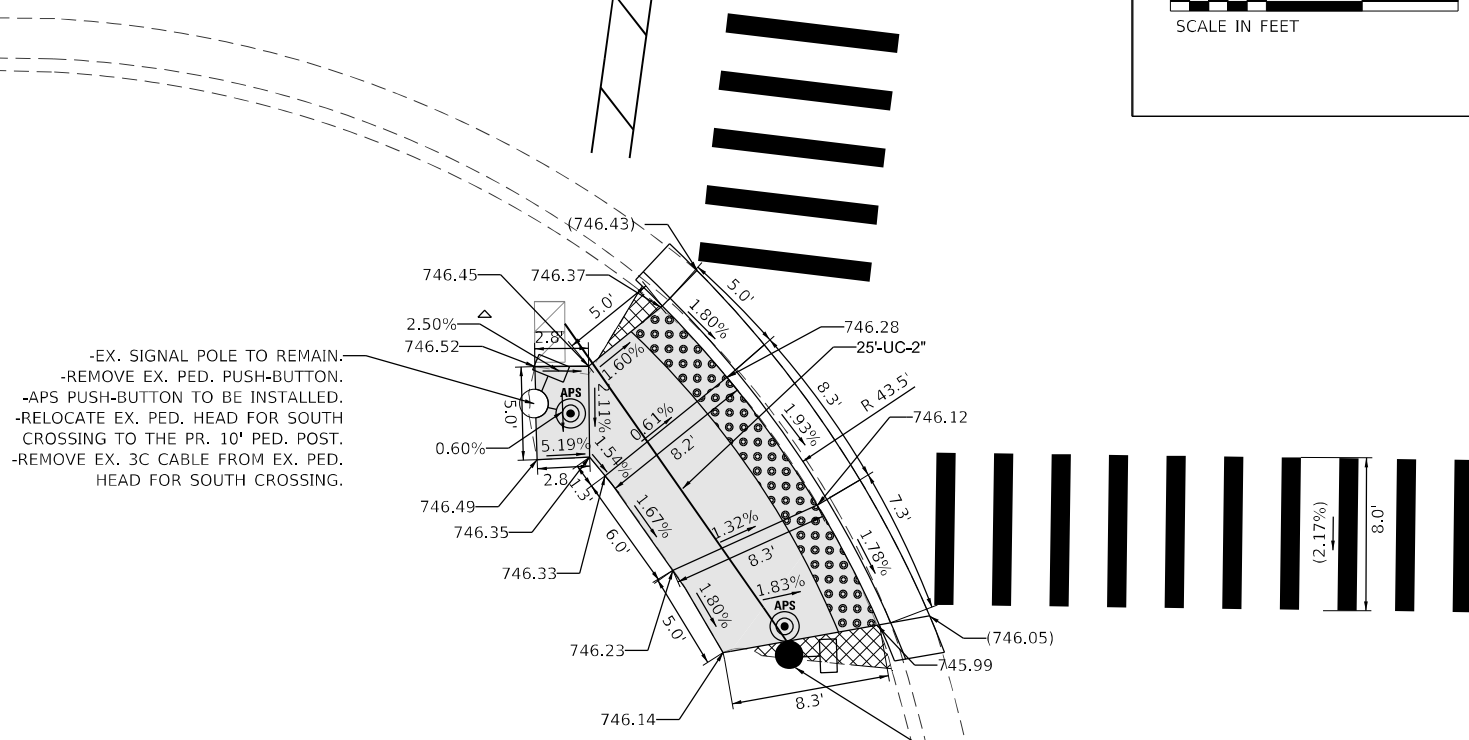
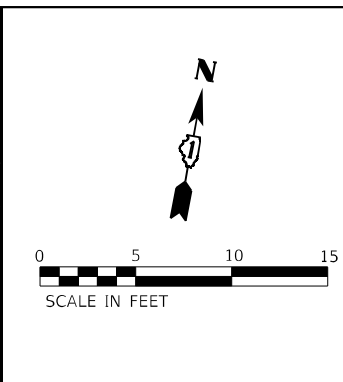
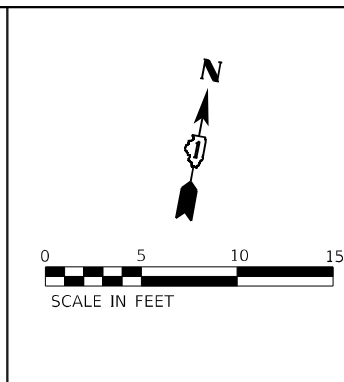
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS			
IL 56 (BUTTERFIELD ROAD)			
SCALE: 1"=5'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	22
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

BUTTERFIELD RD

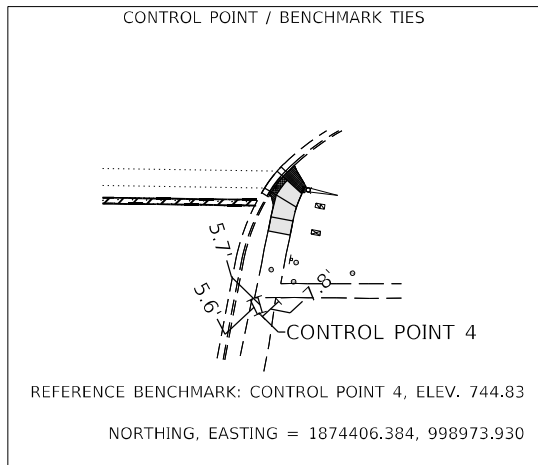
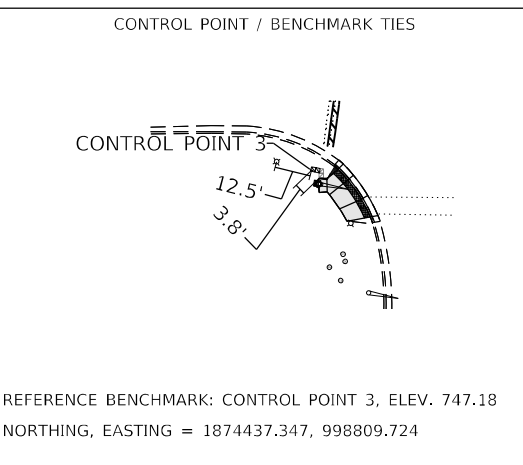
BUTTERFIELD RD



- EX. SIGNAL POLE TO REMAIN.
- REMOVE EX. PED. PUSH-BUTTON.
- APS PUSH-BUTTON TO BE INSTALLED.
- RELOCATE EX. PED. HEAD FOR SOUTH CROSSING TO THE PR. 10' PED. POST.
- REMOVE EX. 3C CABLE FROM EX. PED. HEAD FOR SOUTH CROSSING.

PROP. 10' PEDESTRIAN POST
 PROP. APS PUSH-BUTTON
 RELOCATED EX. PED. SIGNAL HEAD
 PR. 2C AND 3C CABLES

EX. SIGNAL POLE TO REMAIN
 APS PUSH-BUTTON TO BE INSTALLED



- ADA LEGEND**
- SIDEWALK REMOVAL
 - SIDEWALK REMOVAL
PCC SIDEWALK 5"
 - (XXX.XX) EXISTING ELEVATION / SLOPE
- NOTES:
1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
 2. SEE SIGNAL PLANS FOR MORE INFORMATION.

- ADA LEGEND**
- SIDEWALK REMOVAL
 - SIDEWALK REMOVAL
PCC SIDEWALK 5"
 - (XXX.XX) EXISTING ELEVATION / SLOPE
- NOTES:
1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
 2. SEE SIGNAL PLANS FOR MORE INFORMATION.

MODEL: Default
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PLOT SCALE = 100,0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 3/15/2023	CHECKED - JLB	REVISED -
	DATE - 3/15/2023	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	23
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

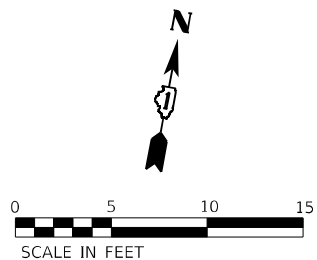
ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"

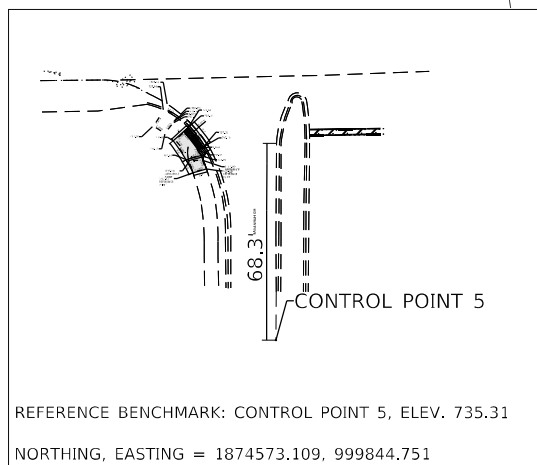
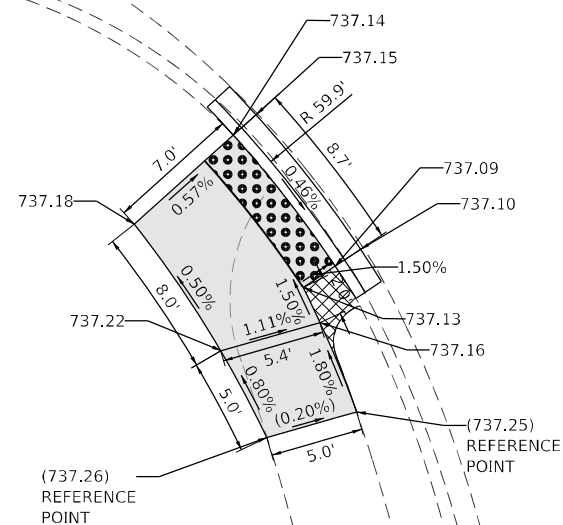
(XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT
2' BEYOND CROSSWALK FOR TRANSITION.



BUTTERFIELD RD



REFERENCE BENCHMARK: CONTROL POINT 5, ELEV. 735.31

NORTHING, EASTING = 1874573.109, 999844.751

SAVANNAH DR

MODEL: Default
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PLOT DATE = 3/15/2023	DATE - 3/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	24
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

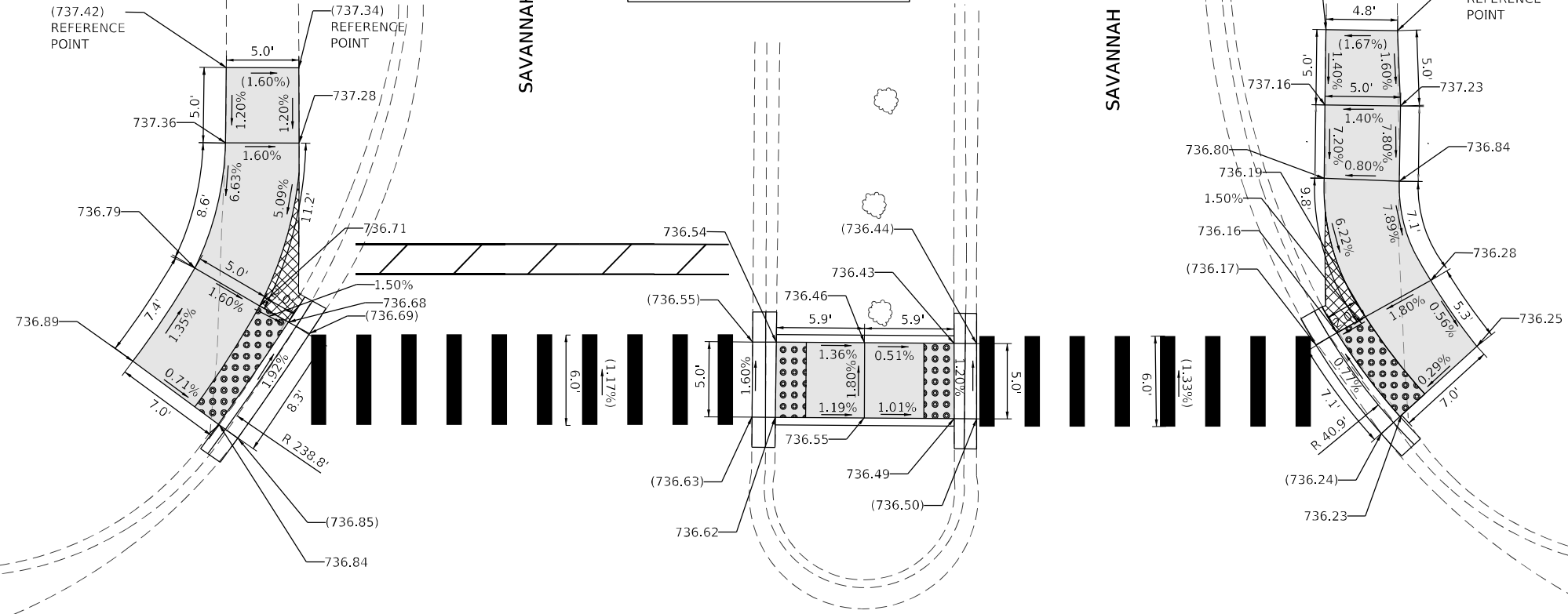
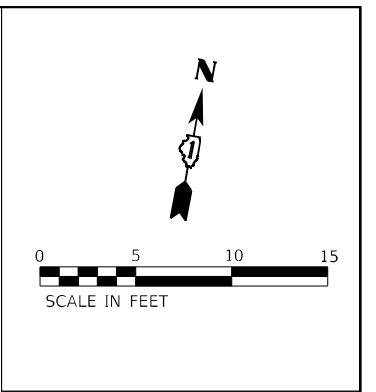
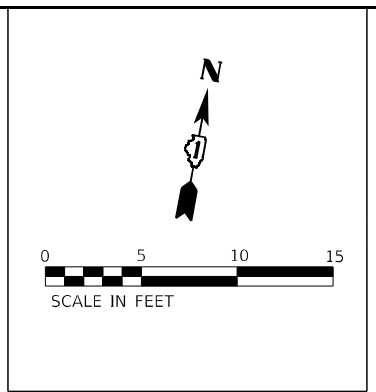
ADA LEGEND

- SIDEWALK REMOVAL
- SIDEWALK REMOVAL PCC SIDEWALK 5"

(XXX.XX) EXISTING ELEVATION / SLOPE

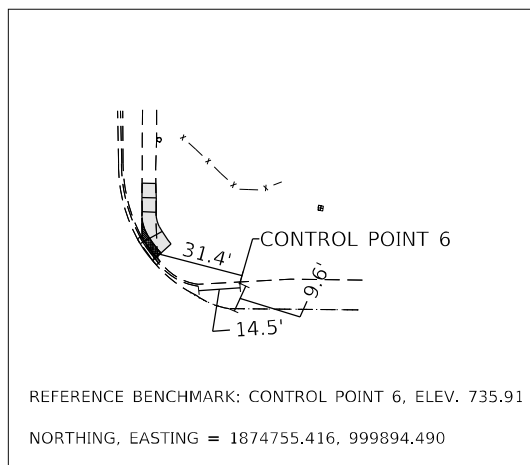
NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.



BUTTERFIELD RD

CONTROL POINT / BENCHMARK TIES



BUTTERFIELD RD

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	DATE - 3/15/2023	REVISED -



**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	25
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

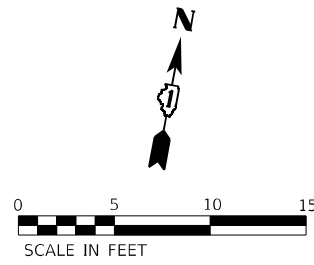
ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"

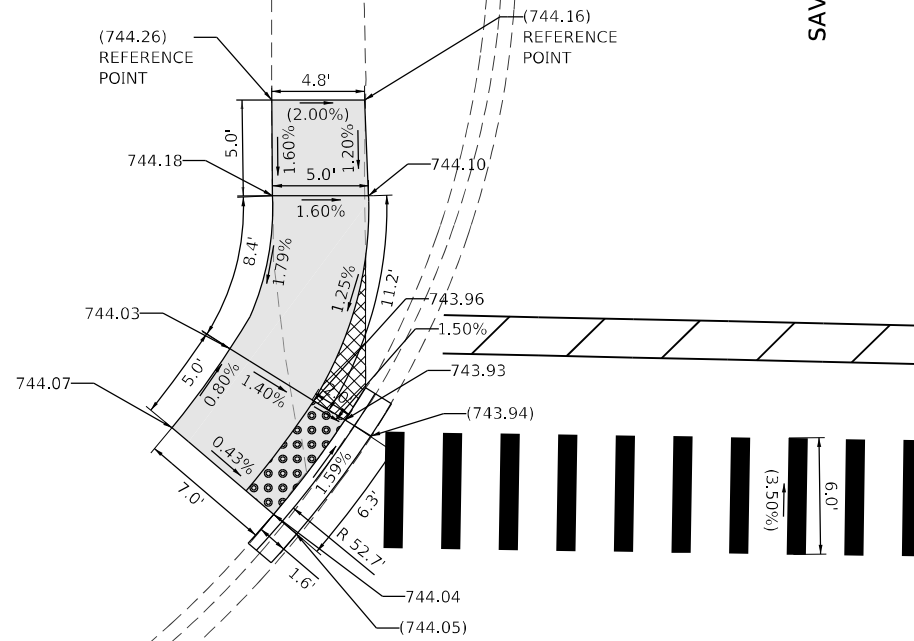
(XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:

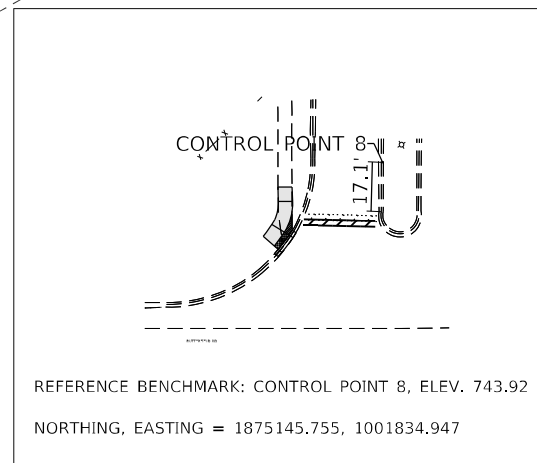
1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. MEP FOR CROSSWALK SLOPE.



SAVANNAH DR





CONTROL POINT / BENCHMARK TIES



BUTTERFIELD RD

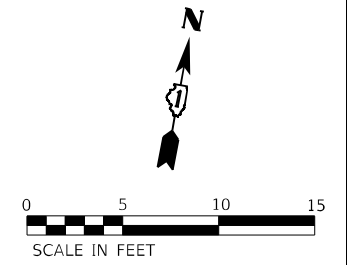
ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"

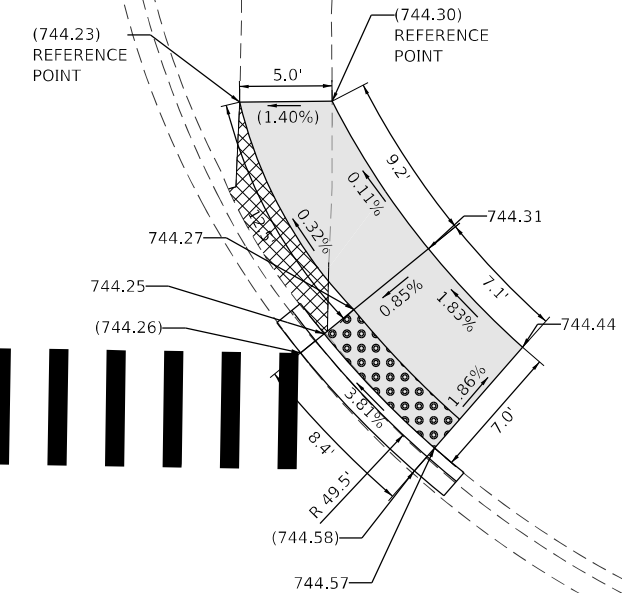
(XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. MEP FOR CROSSWALK SLOPE.



SAVANNAH DR



BUTTERFIELD RD

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**



**ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	26
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

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DRAWN - CJB	REVISIONS -	
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PLOT DATE = 3/15/2023	DATE - 3/15/2023	REVISIONS -

ADA LEGEND

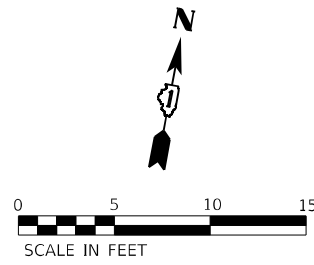
-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"

(XXX.XX) EXISTING ELEVATION / SLOPE



NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.

BUTTERFIELD RD



ADA LEGEND

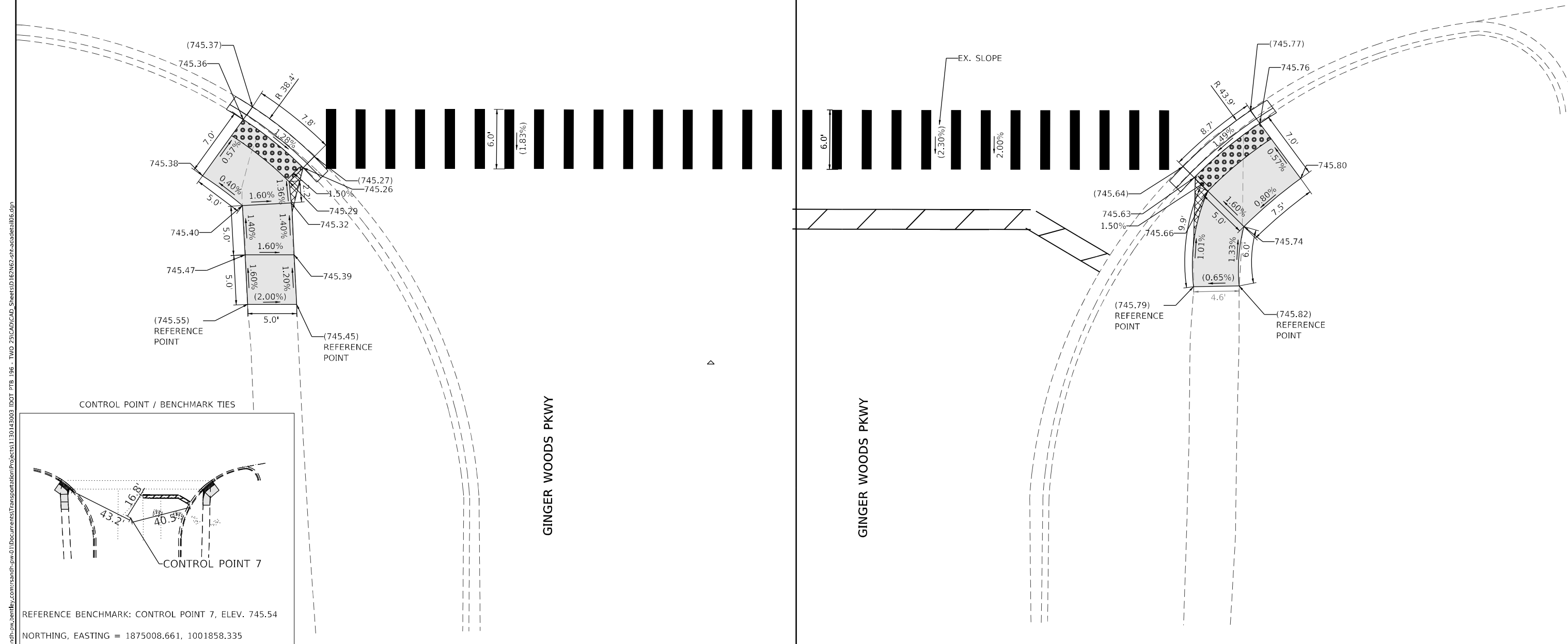
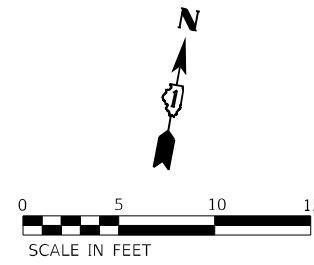
-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"

(XXX.XX) EXISTING ELEVATION / SLOPE

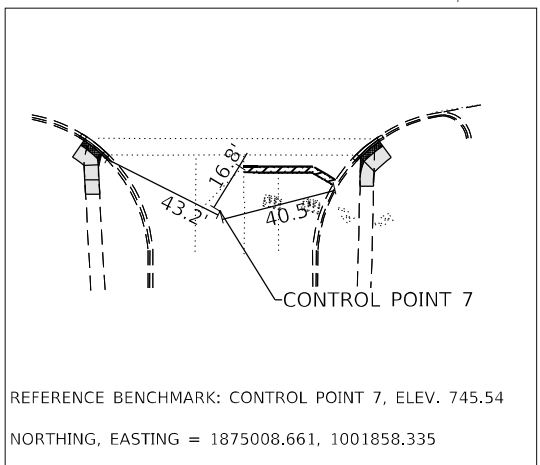
NOTE:

1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.
2. CONTRACTOR TO CORRECT CROSS SLOPE TO LESS THAN 2% WITHIN THE CROSSWALK WITH THE MILLING MACHINE.

BUTTERFIELD RD



CONTROL POINT / BENCHMARK TIES



MODEL: Default
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PLOT DATE = 3/15/2023	DATE - 3/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

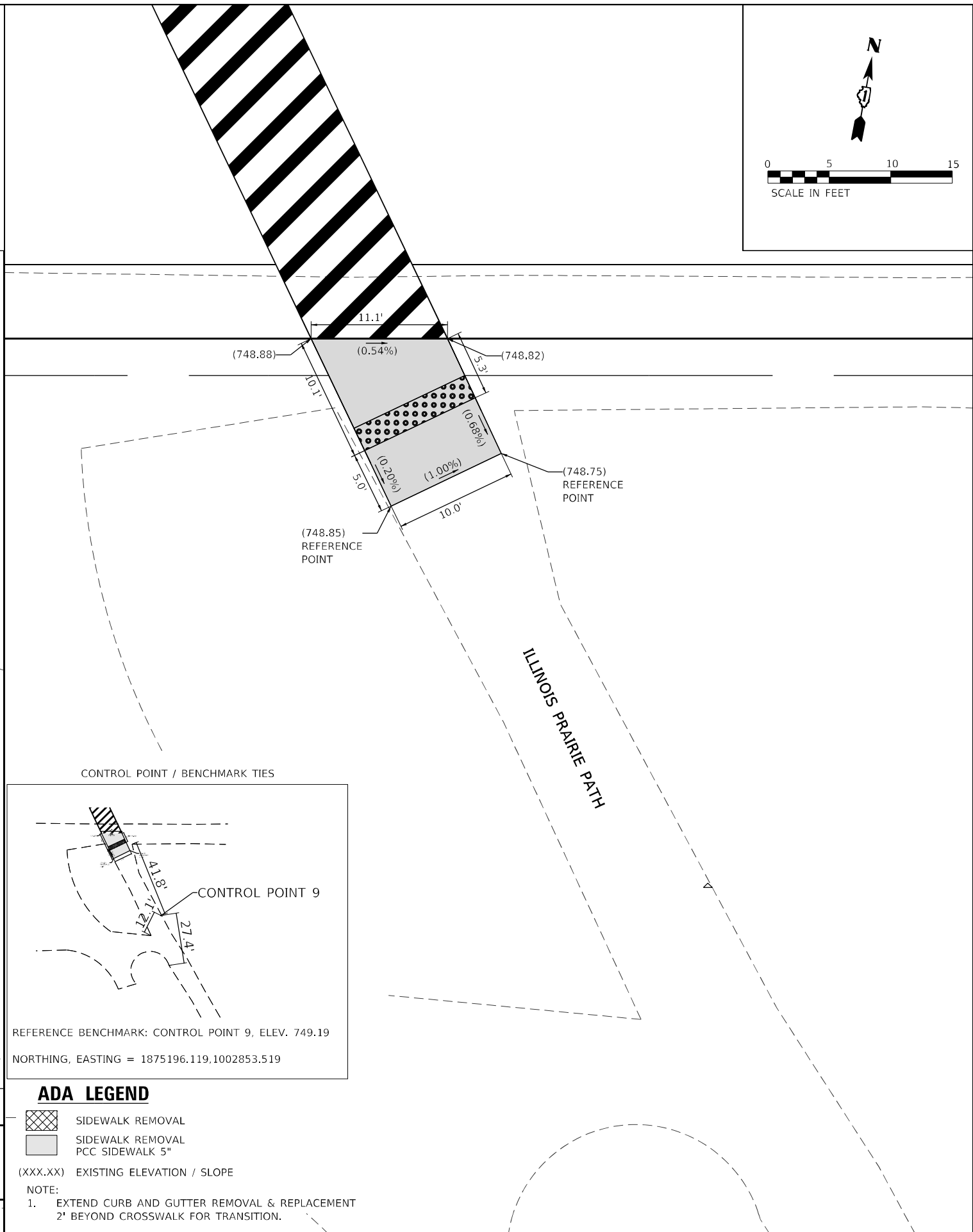
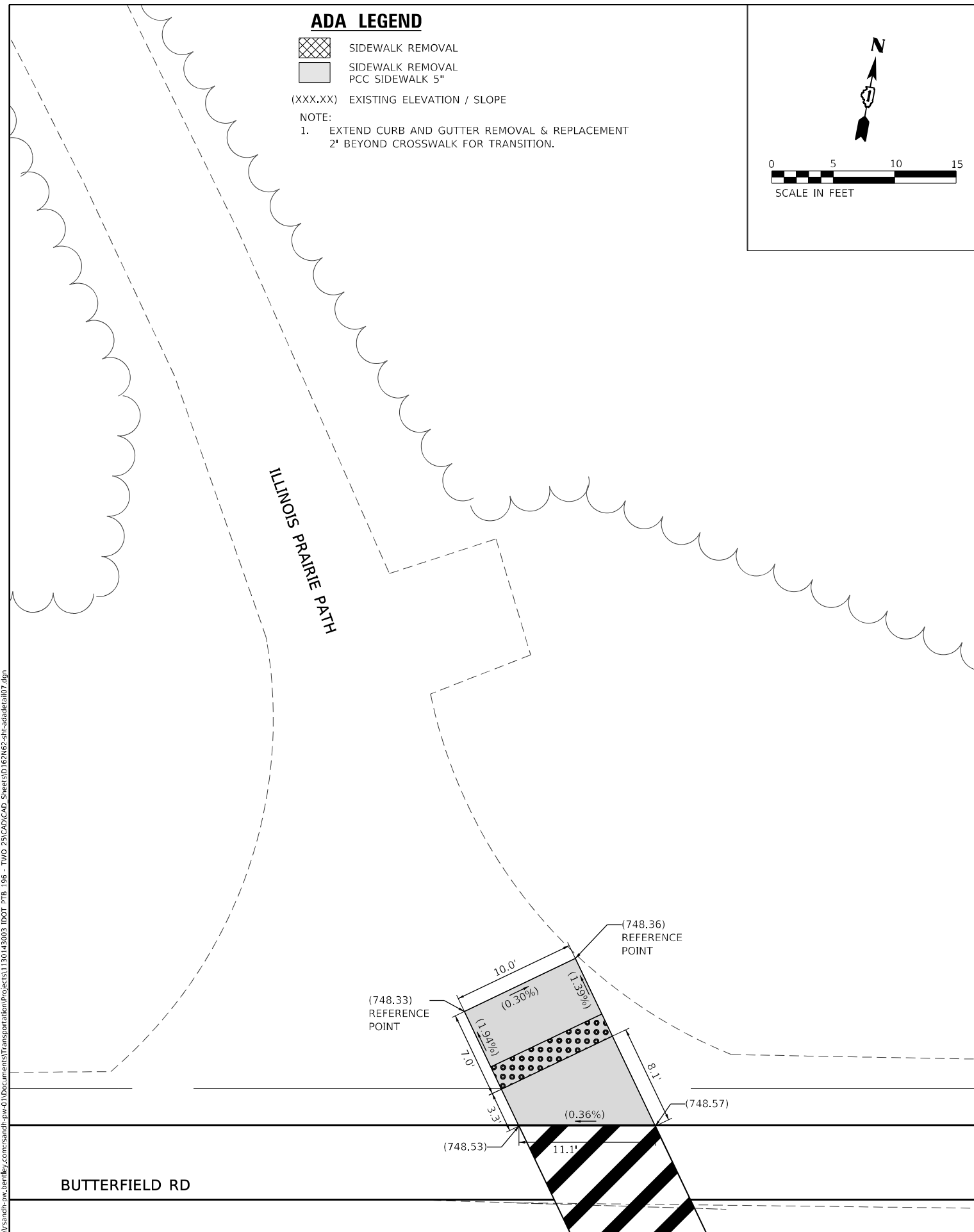
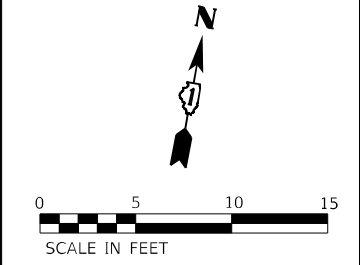
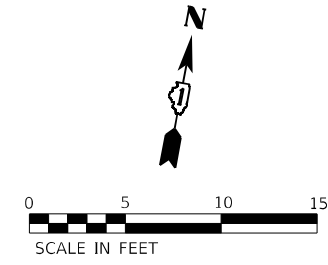
ADA RAMP DETAILS IL 56 (BUTTERFIELD ROAD)			
SCALE: 1"=5'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	27
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:
1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.



ADA LEGEND

-  SIDEWALK REMOVAL
-  SIDEWALK REMOVAL
PCC SIDEWALK 5"
- (XXX.XX) EXISTING ELEVATION / SLOPE

NOTE:
1. EXTEND CURB AND GUTTER REMOVAL & REPLACEMENT 2' BEYOND CROSSWALK FOR TRANSITION.

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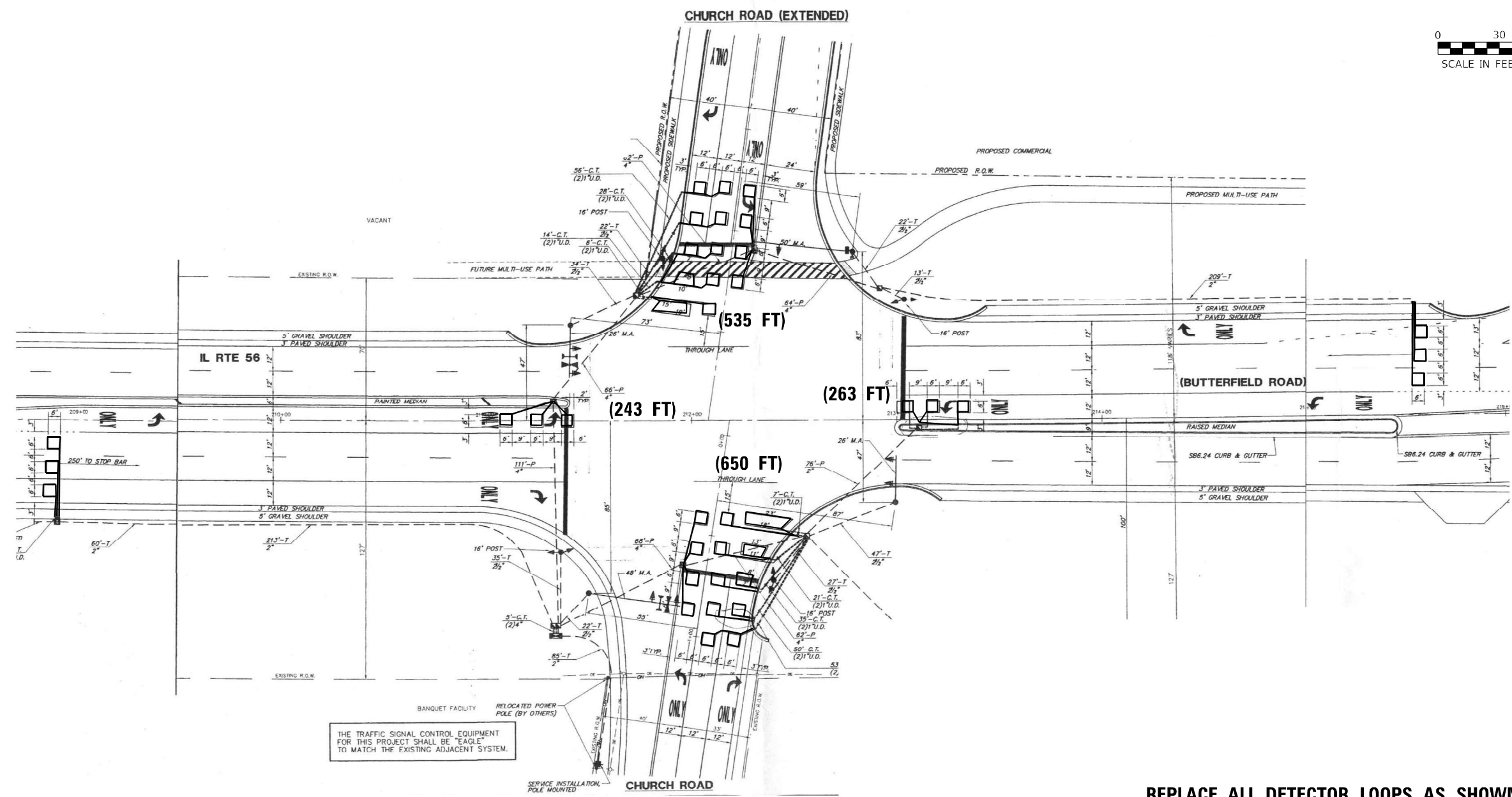
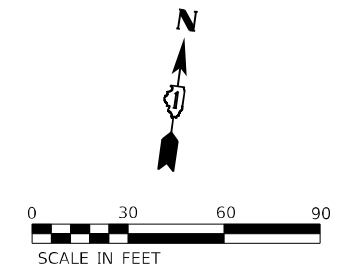
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	DRAWN - CJB	REVISED -
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PLOT DATE = 3/15/2023	DATE - 3/15/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
IL 56 (BUTTERFIELD ROAD)**

SCALE: 1"=5' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	28
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	1691	FOOT

NOTES:

- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

MODEL: Default
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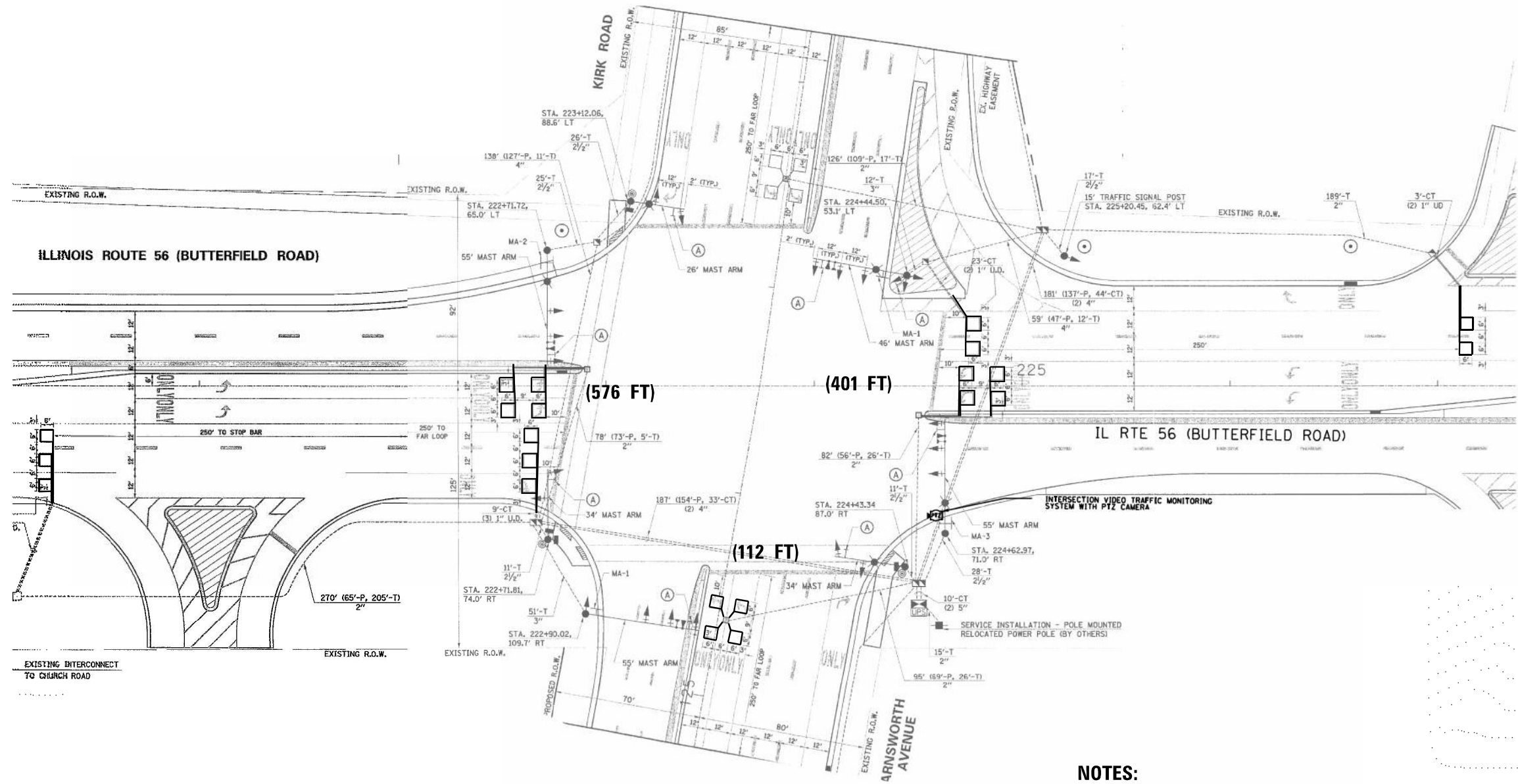
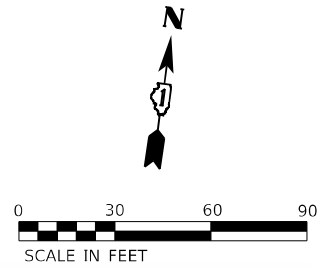


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PLOT SCALE = 100.0000' / in.	DRAWN - CJB	REVISED -
PLOT DATE = 1/17/2023	CHECKED - JLB	REVISED -
	DATE - 1/17/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN	
IL 56 (BUTTERFIELD ROAD) AND CHURCH ROAD	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	29
CONTRACT NO. 62N62				
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	1089	FOOT



USER NAME = KennedyM	DESIGNED - CJB	REVISED -
PLOT SCALE = 60,0000 * / in.	DRAWN - CJB	REVISED -
PLOT DATE = 3/9/2023	CHECKED - JLB	REVISED -
	DATE - 3/9/2023	REVISED -

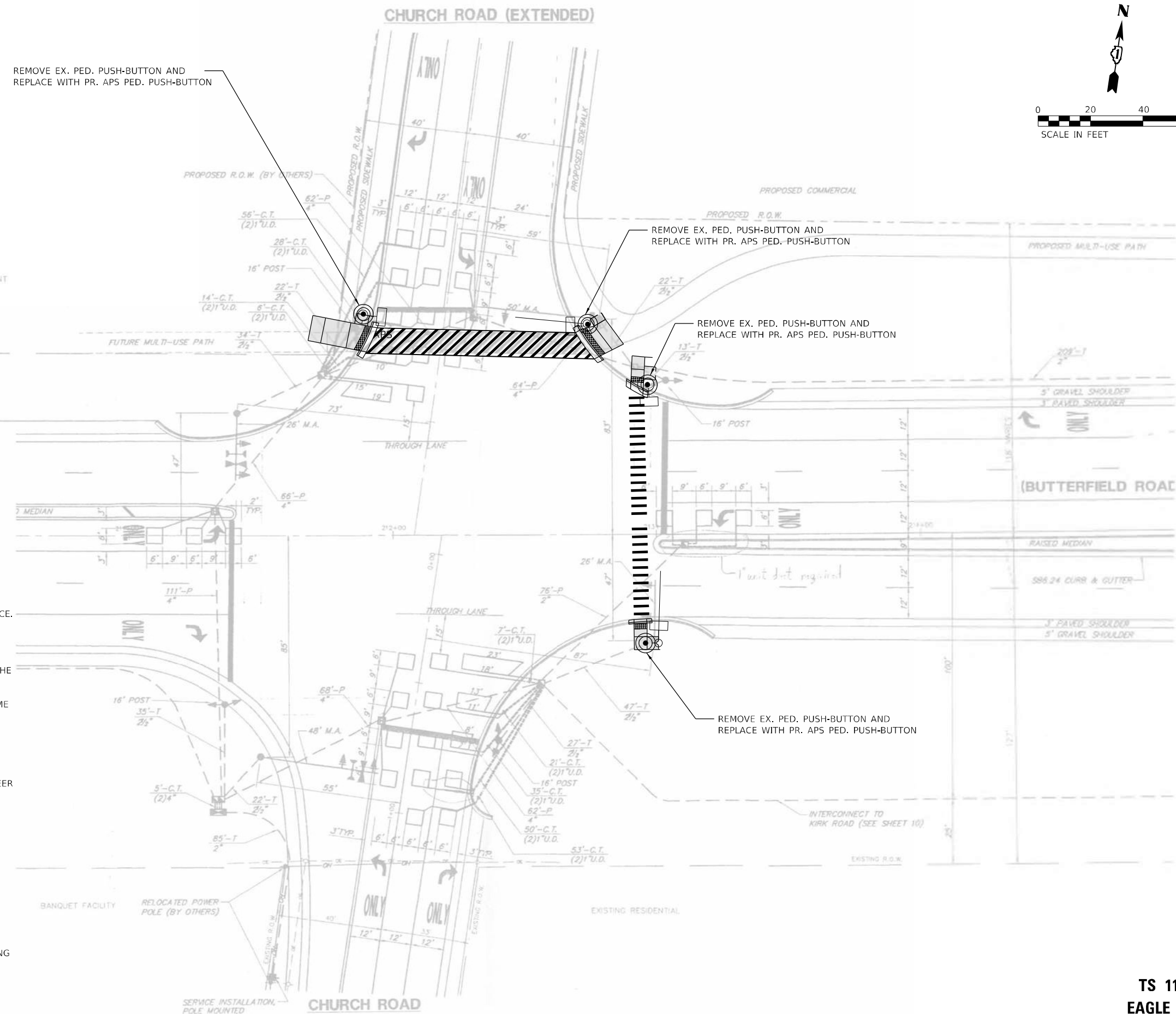
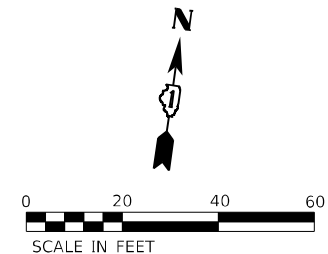
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL 56 (BUTTERFIELD ROAD) AND KIRK RD / FARNSWORTH AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	30
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

- 4 EACH PEDESTRIAN PUSH BUTTON (IL 56 AND CHURCH RD)

ALL EXISTING PEDESTRIAN PUSH-BUTTON SHALL BE REMOVED AND PAID FOR UNDER THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT."

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIVE.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER.

DIMENSIONS SHOWN ARE FROM THE CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE, AND PLACEMENT OF THE 5' POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS DATED 9/25/2008 AND WILL NOT MATCH OTHER PLANS.

THIS PLAN IS FOR THE SOLE PURPOSE OF APS INSTALLATION, WHICH IS SHOWN IN BLACK LINEWORK.

EXISTING CONDITIONS ARE SHOWN IN GREY AND REFLECT RECORD DRAWINGS.

EXISTING CONDITIONS, INCLUDING THE CONDITION AND AVAILABILITY OF CONDUITS, HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TRAFFIC SIGNAL EQUIPMENT PRIOR TO ORDERING MATERIALS AND BEFORE COMMENCING ANY WORK.

SEE ADA RAMP DETAIL SHEETS FOR MORE INFORMATION.

MODEL: Default
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 PROJECT: 1143003
 SHEET: 31
 DATE: 3/13/2023



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DRAWN - SNM	REVISED -	
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PLOT DATE = 3/13/2023	DATE - 3/13/2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

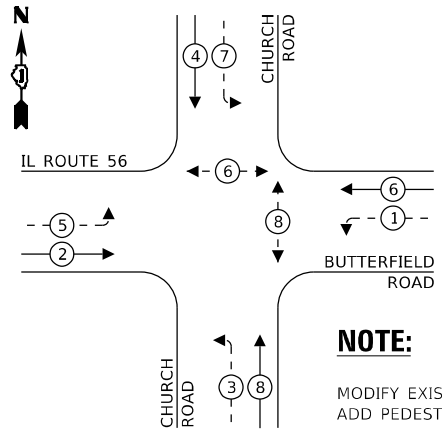
**ACCESSIBLE PEDESTRIAN SIGNAL PLAN
IL 56 (BUTTERFIELD ROAD) AND CHURCH ROAD**

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

F.A.P. RTE. 365	SECTION 2021-040-R5	COUNTY KANE	TOTAL SHEETS 57	SHEET NO. 31
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

**TS 11486
EAGLE 16H**

CONTROLLER SEQUENCE



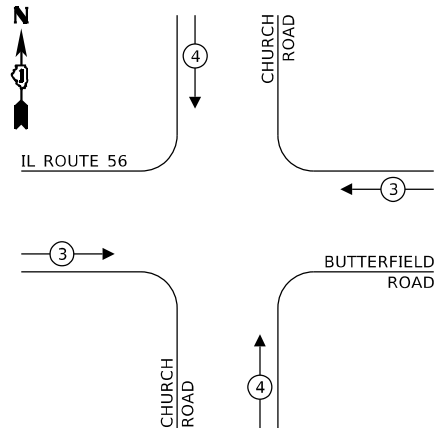
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- ← * → PROTECTED PHASE
- ← - * - → PROTECTED/PERMITTED PHASE
- ← * → PEDESTRIAN PHASE
- ← * OL → OVERLAP

NOTE:

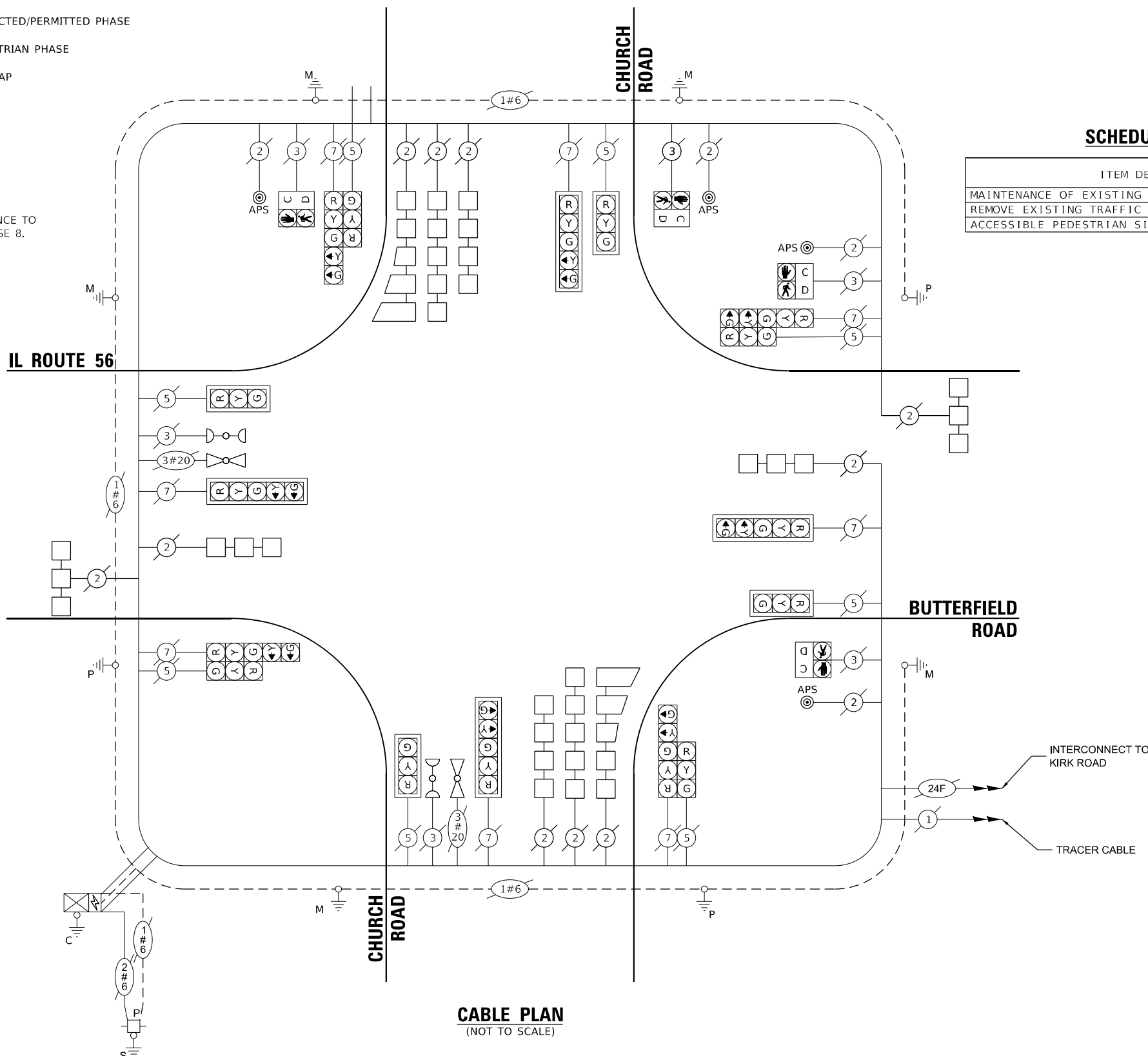
MODIFY EXISTING CONTROLLER SEQUENCE TO ADD PEDESTRIAN MOVEMENT FOR PHASE 8.

EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4



CABLE PLAN
(NOT TO SCALE)

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88
(YELLOW)	16	20	25	80
(GREEN)	16	12	25	48
PERMISSIVE ARROW	16	10	10	16
PED. SIGNAL	4	20	1.0	-
CONTROLLER	1	100	100	100
UPS	1	25	100	25
FLASHER	-	-	-	-
TOTAL =				357

ENERGY COSTS TO:
CITY OF AURORA
 44 E. DOWNERS PLACE

ENERGY SUPPLY: CONTACT: DAVE HUBERTY
 PHONE: (847) 608-2342
 COMPANY: COMED + ELGIN
 ACCOUNT NUMBER: ---

TS 11486
EAGLE 16H

MODEL: Default
 FILE NAME: p:\projects\62n62\62n62.dwg
 PROJECT: 62N62
 SHEET: 1 OF 2
 DATE: 3/16/2023
 DRAWN BY: KennedyM
 CHECKED BY: SGH
 PLOT DATE: 3/16/2023



USER NAME = KennedyM
 DESIGNED - SNM
 DRAWN - SNM
 PLOT SCALE =
 PLOT DATE = 3/16/2023

DESIGNED - SNM
 DRAWN - SNM
 CHECKED - SGH
 DATE - 3/16/2023

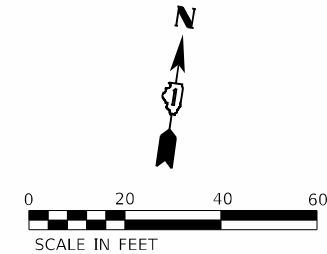
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 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, AND SCHEDULE OF QUANTITIES
IL 56 (BUTTERFIELD ROAD) AND CHURCH ROAD

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

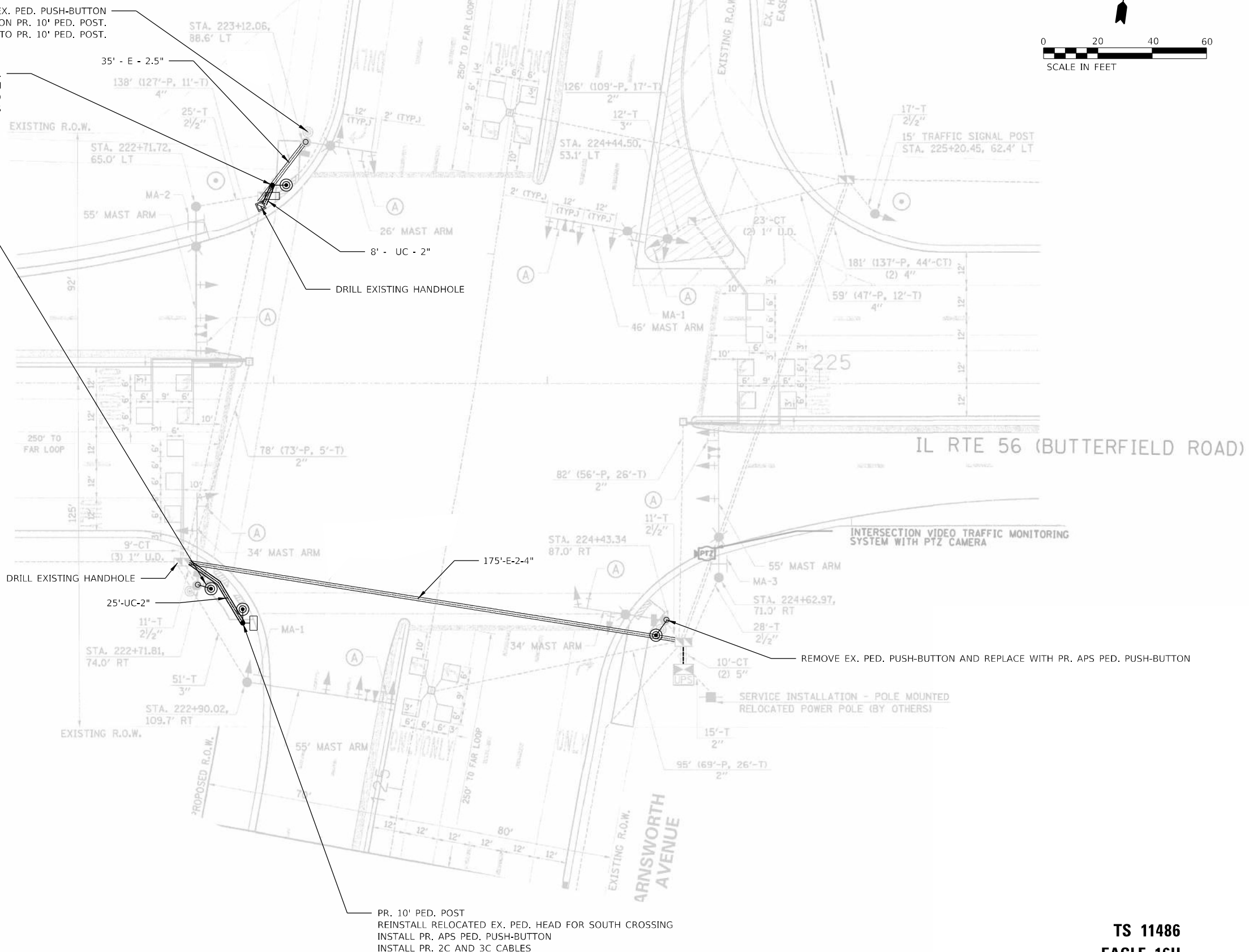
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	32
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



REMOVE EX. PED. PUSH-BUTTON
PULL BACK EX. 2C AND 3C CABLE AND REINSTALL ON PR. 10' PED. POST.
RELOCATE EX. PED. HEAD TO PR. 10' PED. POST.

PR. 10' PED. POST.
PR. APS PED. PUSH-BUTTON
REINSTALL RELOCATED EX. PED. SIGNAL HEAD
REINSTALL EX. 2C AND 3C CABLES

RELOCATE EX. PED HEAD FOR SOUTH CROSSING
TO PR. 10' PED. POST
REMOVE EX. 3C CABLE FROM EX. PED HEAD FOR SOUTH CROSSING
REMOVE EX. PUSH-BUTTON
AND REPLACE WITH PR. APS PED. PUSH-BUTTON



NOTES:

THE FOLLOWING ITEMS SHALL BE REMOVED BY THE CONTRACTOR AND SHALL BE DISPOSED OF BY THEM OUTSIDE THE RIGHT-OF-WAY AT THEIR EXPENSE. THE SALVAGE VALUE OF THE REMOVED EQUIPMENT SHALL BE REFLECTED IN THE CONTRACT BID PRICE.

3 EACH PEDESTRIAN PUSH BUTTON (IL 56 AND KIRK RD)

ALL EXISTING PEDESTRIAN PUSH-BUTTON SHALL BE REMOVED AND PAID FOR UNDER THE PAY ITEM "REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT."

CONTRACTOR SHALL PERFORM SIGNAL WORK IN SUCH A WAY AS TO MINIMIZE THE TIME THE EXISTING PEDESTRIAN EQUIPMENT IS INOPERATIVE.

CONTRACTOR SHALL CONFIRM THE FINAL LOCATION OF THE PEDESTRIAN EQUIPMENT BEFORE INSTALLATION WITH THE TRAFFIC SIGNAL AREA ENGINEER.

DIMENSIONS SHOWN ARE FROM THE CENTER OF POST TO BACK OF CURB AND ARE APPROXIMATE, AND PLACEMENT OF THE 5' POST SHALL BE VERIFIED WITH THE ENGINEER PRIOR TO THE START OF WORK.

APS SHALL BE PLACED PARALLEL TO THE CORRESPONDING CROSSWALK.

STATIONING SHOWN ON THE TRAFFIC SIGNAL PLAN ARE FROM RECORD DRAWINGS DATED 11/7/2011 AND WILL NOT MATCH OTHER PLANS.

THIS PLAN IS FOR THE SOLE PURPOSE OF APS INSTALLATION, WHICH IS SHOWN IN BLACK LINEWORK.

EXISTING CONDITIONS ARE SHOWN IN GREY AND REFLECT RECORD DRAWINGS.

EXISTING CONDITIONS, INCLUDING THE CONDITION AND AVAILABILITY OF CONDUITS, HAVE NOT BEEN FIELD VERIFIED. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING TRAFFIC SIGNAL EQUIPMENT PRIOR TO ORDERING MATERIALS AND BEFORE COMMENCING ANY WORK.

SEE ADA RAMP DETAIL SHEETS FOR MORE INFORMATION.

PR. 10' PED. POST
REINSTALL RELOCATED EX. PED. HEAD FOR SOUTH CROSSING
INSTALL PR. APS PED. PUSH-BUTTON
INSTALL PR. 2C AND 3C CABLES

**TS 11486
EAGLE 16H**

MODEL: Default
FILE NAME: p:\projects\ts11486\ts11486.dwg
PROJECT: 11486-11486.dwg
DRAWN: J. BENTLEY
DATE: 3/13/2023



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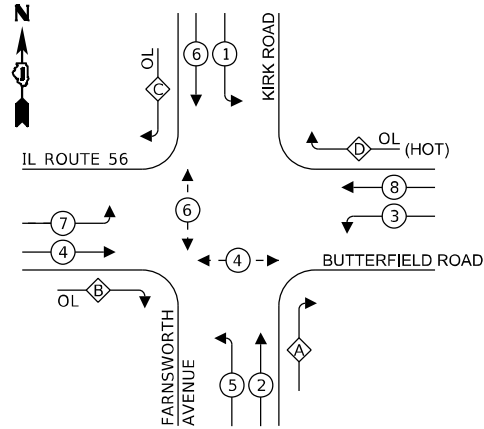
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ACCESSIBLE PEDESTRIAN SIGNAL PLAN
IL 56 (BUTTERFIELD ROAD) AND KIRK RD / FARNSWORTH AVE**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	33
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				

CONTROLLER SEQUENCE



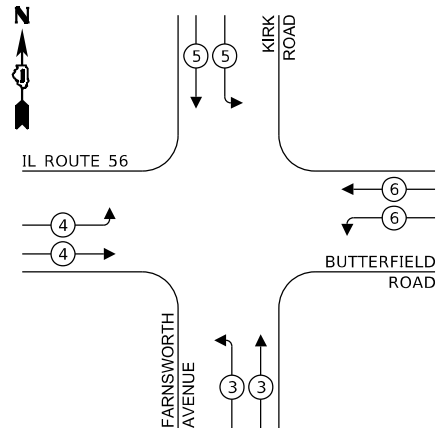
LEGEND:

- ←*→ PROTECTED PHASE
- ←*-- PROTECTED/PERMITTED PHASE
- ←*→ PEDESTRIAN PHASE
- ←* OL OVERLAP

RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	2 + 3	
B	4 + 5	
C	6 + 7	
D	(HOT) CONTINUOUS GREEN RIGHT ARROW	

EMERGENCY VEHICLE PREEMPTION SEQUENCE



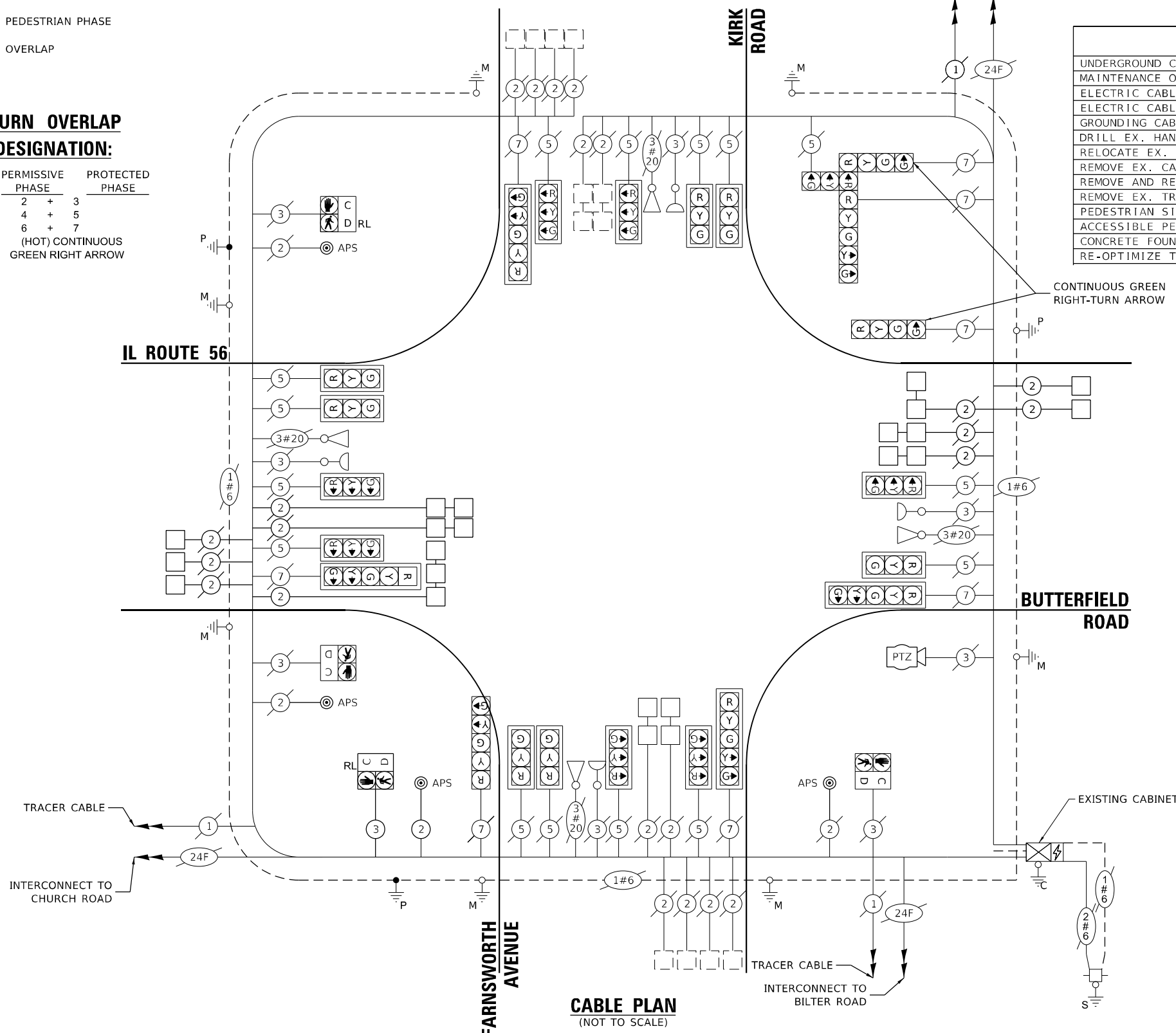
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	WATTAGE		% OPERATION	TOTAL WATTAGE
		-	LED		
SIGNAL (RED)	23	-	11	50	126.5
(YELLOW)	23	-	20	5	23
(GREEN)	23	-	12	45	124.2
ARROW	12	-	10	10	12
WB RT ARROW	2	-	10	10	2
PED. SIGNAL	4	-	20	100	400
CONTROLLER	1	-	100	100	100
ILLUM. SIGN	-	-	120	50	-
VIDEO SYSTEM	-	-	150	100	-
UPS	1	-	25	100	25
FLASHER LED	-	-	-	50	-
TOTAL =					813

ENERGY COSTS TO:
 IDOT DISTRICT 1
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: JOE STACHO
 PHONE: (630) 424-5704
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNIT	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA	FOOT	33
MAINTENANCE OF EX. TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	252
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	256
GROUNDING CABLE FOR PROPOSED PED. POST	FOOT	65
DRILL EX. HANDHOLE	EACH	2
RELOCATE EX. PEDESTRIAN SIGNAL HEAD	EACH	2
REMOVE EX. CABLE FROM CONDUIT	FOOT	236
REMOVE AND REINSTALL CABLE	FOOT	100
REMOVE EX. TRAFFIC SIGNAL EQUIPMENT	EACH	1
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1



CABLE PLAN
(NOT TO SCALE)

TS 11485
EAGLE 16H

MODEL: Default
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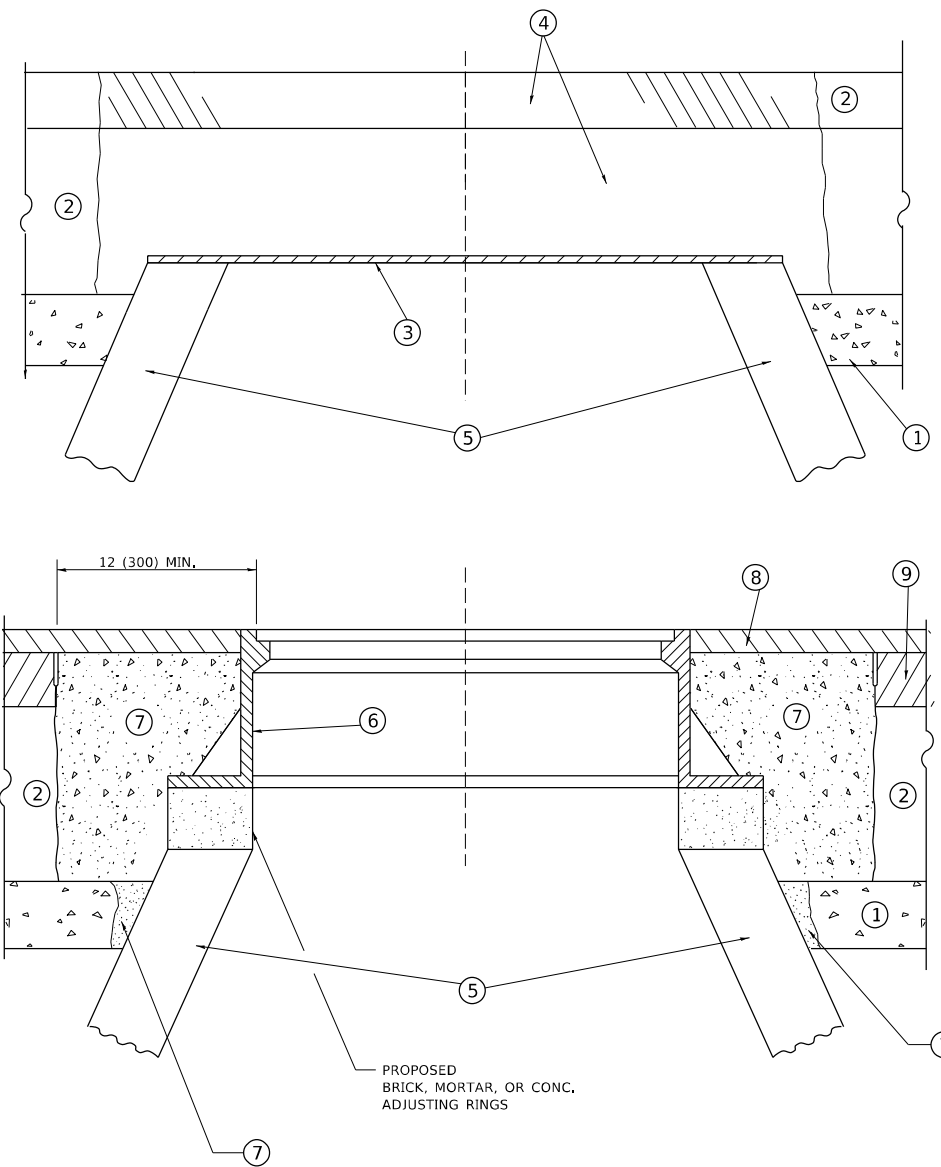


USER NAME = johns0TS	DESIGNED - SNM	REVISED -
	DRAWN - SNM	REVISED -
PLOT SCALE =	CHECKED - SGH	REVISED -
PLOT DATE = 3/13/2023	DATE - 3/13/2023	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, EMERGENCY VEHICLE PREEMPTION, AND SCHEDULE OF QUANTITIES
IL 56 (BUTTERFIELD ROAD) AND KIRK RD / FARNSWORTH AVE
 SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-R5	KANE	57	34
CONTRACT NO. 62N62				
ILLINOIS FED. AID PROJECT				



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

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.

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

MODEL: D:\dgn\...
FILE: \work\...
2/2/2022

USER NAME	■ demanche	DESIGNED	- R. SHAH	REVISED	- R. BORO 01-01-07
		DRAWN	-	REVISED	- R. BORO 03-09-11
PLOT SCALE	■ 100,0000 * / in.	CHECKED	-	REVISED	- R. BORO 12-06-11
PLOT DATE	■ 2/2/2022	DATE	- 10-25-94	REVISED	- K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

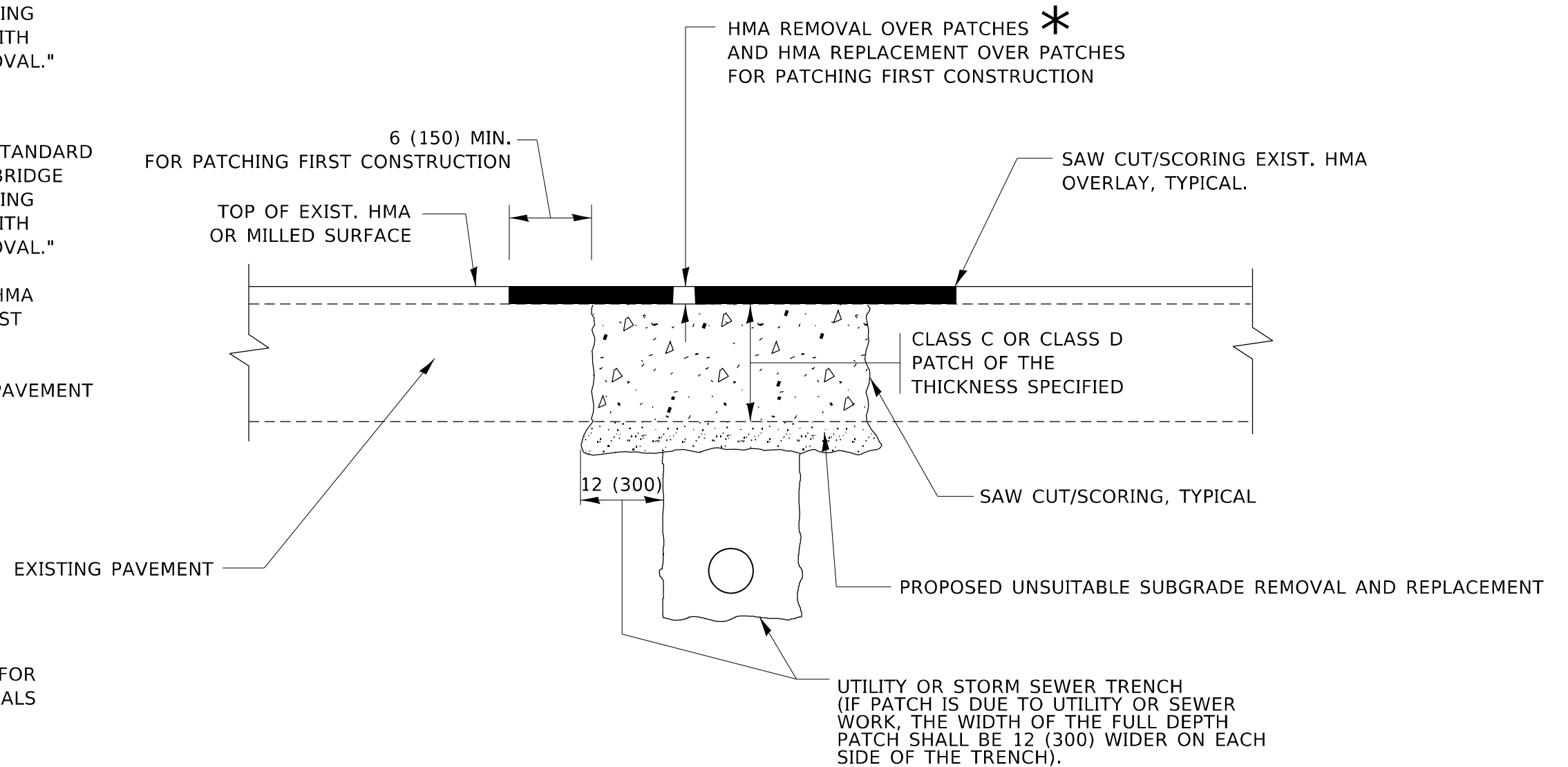
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	35
BD600-03 (BD-08)			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				

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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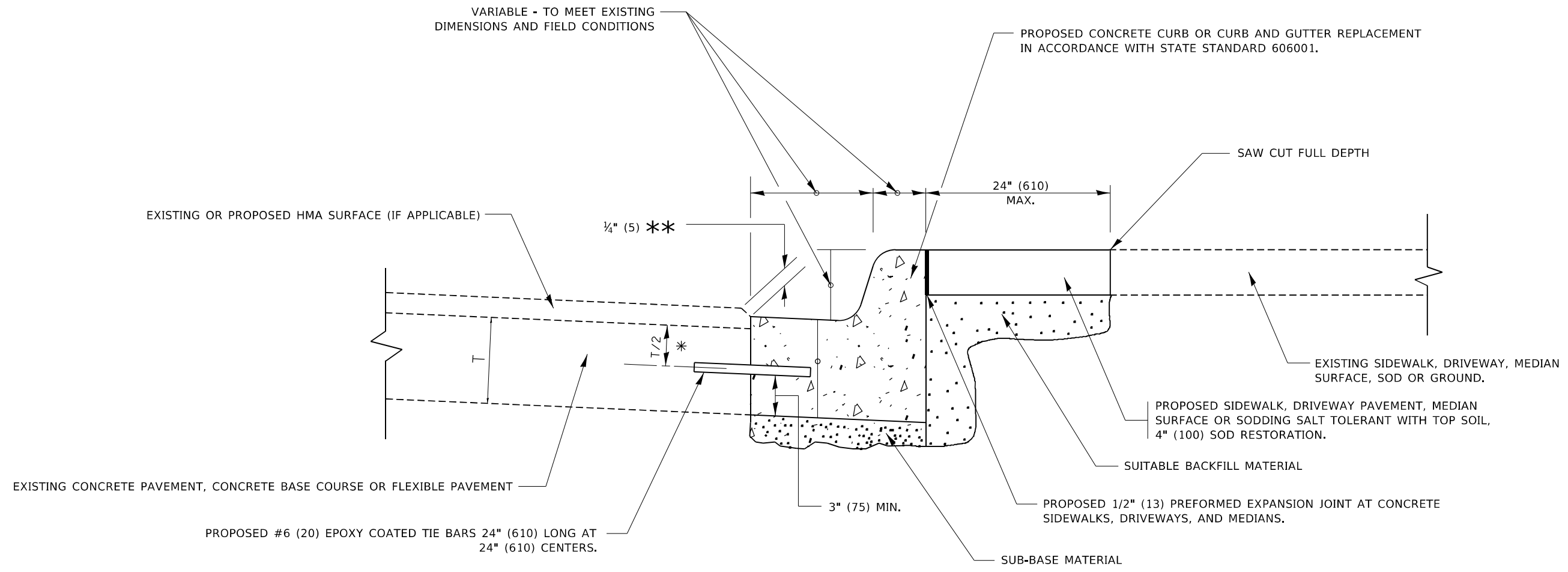
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PLOT DATE	2/2/2022	DATE	10-25-94	REVISED	K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	36
BD400-04 (BD-22)			CONTRACT NO. 62N62	
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.

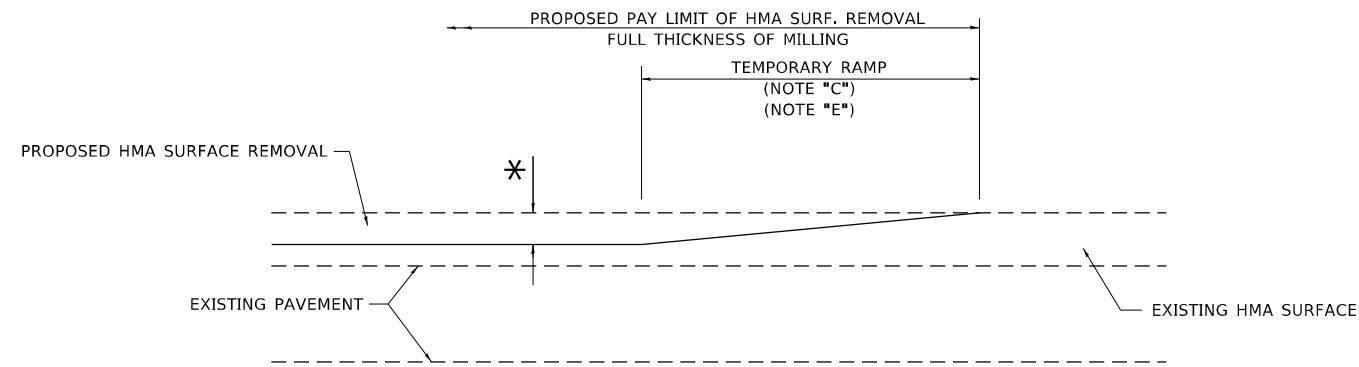
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USER NAME	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

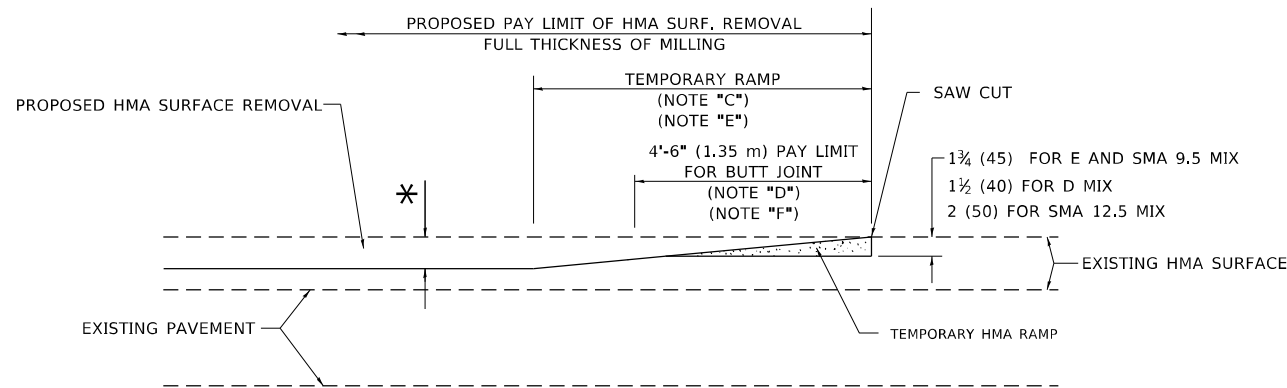
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365	2021-040-RS	KANE	57	37
BD600-06 (BD-24)			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

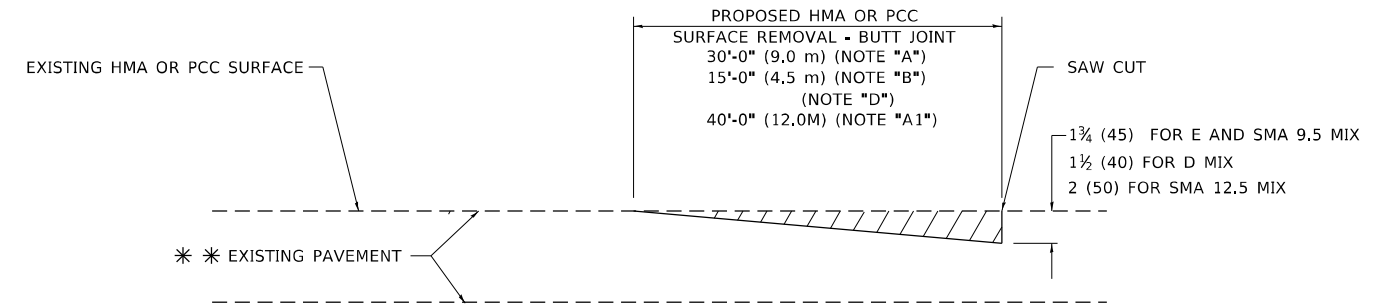


HMA CONSTRUCTED TEMPORARY RAMP

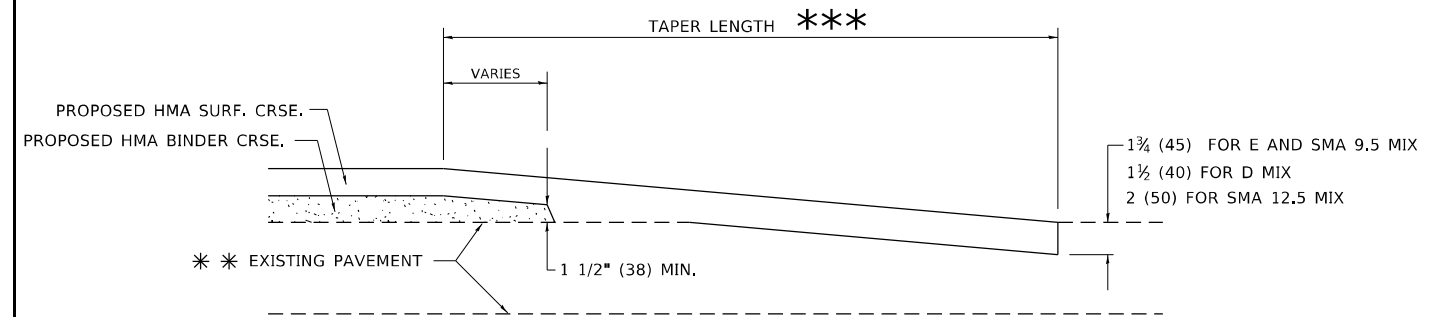
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

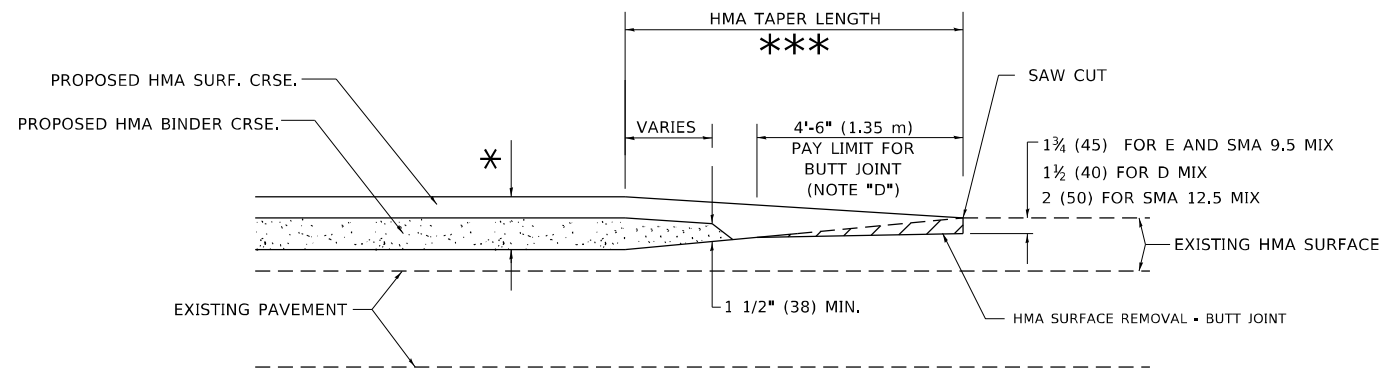
GENERAL NOTES

- 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

MODEL Dwg# 1
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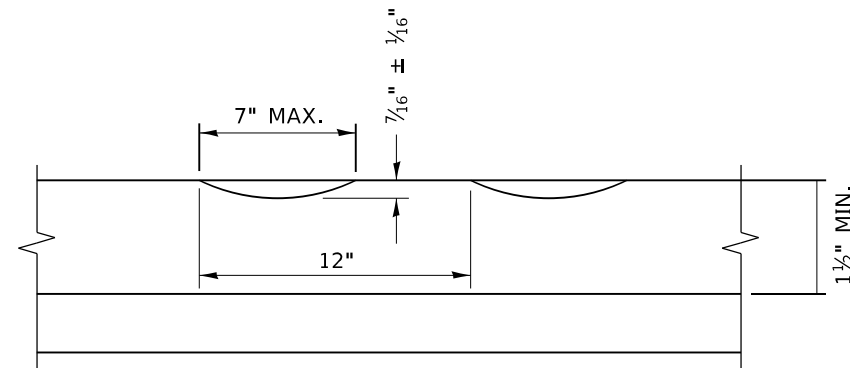
USER NAME - demanchet	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
PLOT SCALE - 100,0000 * / in.	CHECKED - M. GOMEZ 04-06-01	REVISED - M. GOMEZ 04-06-01
PLOT DATE - 2/2/2022	DATE - 06-13-90	REVISED - R. BORO 01-01-07
		REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

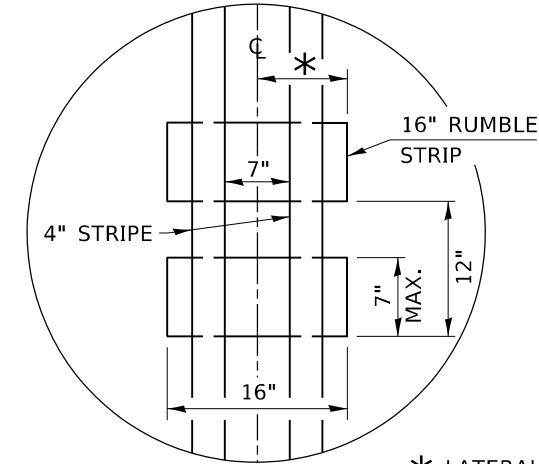
BUTT JOINT AND
HMA TAPER DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	38
BD400-05 BD-32			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				



SECTION A-A



* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

DETAIL B

GENERAL NOTES

CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.

SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.

ALL RUMBLE STRIPS SHALL BE MILLED.

CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.

DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.

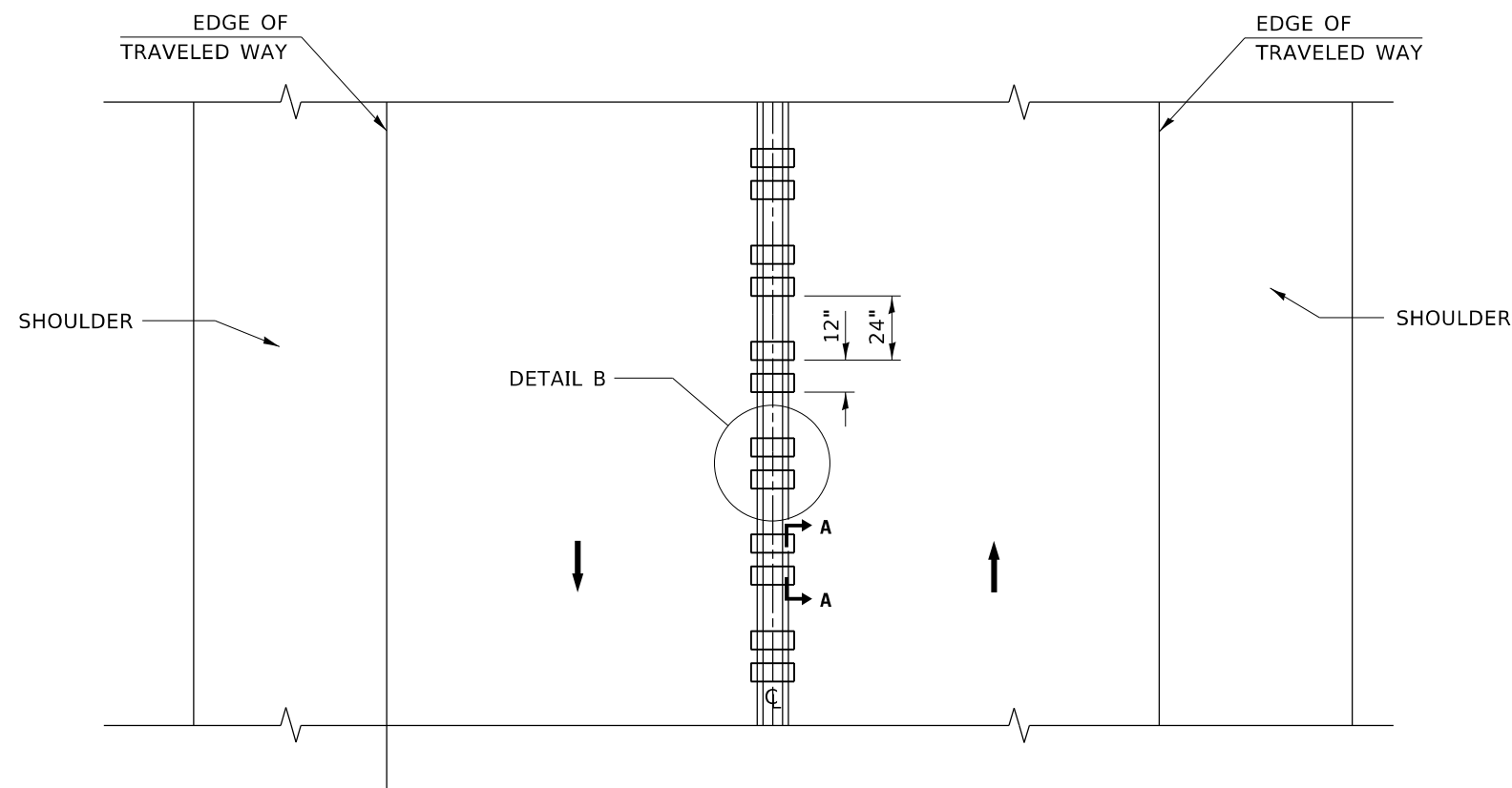
AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.

WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.

HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



TWO-WAY ROAD

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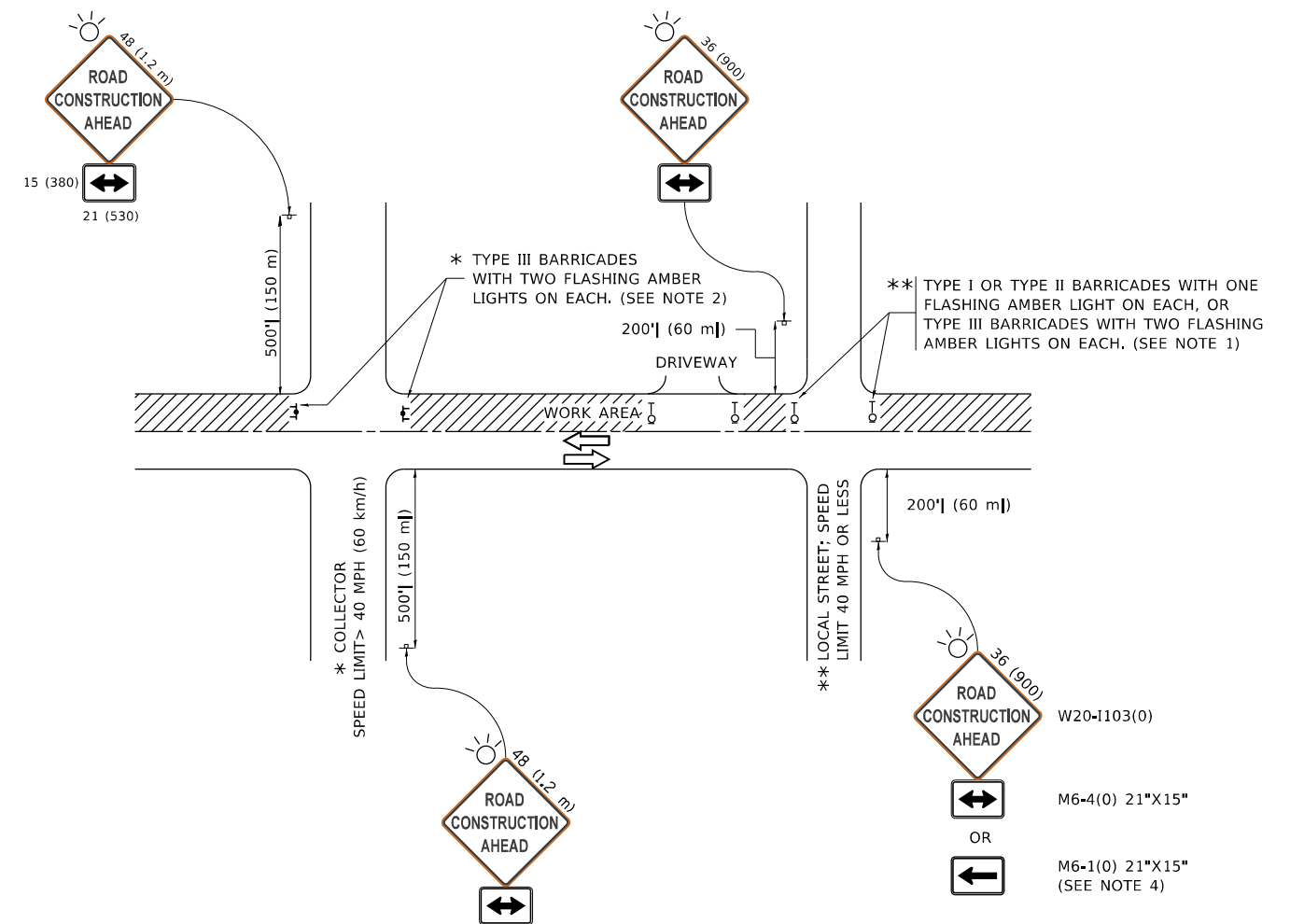
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PLOT SCALE	DRAWN -	REVISED -
PLOT DATE	CHECKED -	REVISED -
	DATE - 08-06-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	39
BD 55			CONTRACT NO. 62N62	
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.
- 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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 PROJECT: ...
 USER: ...
 DATE: ...

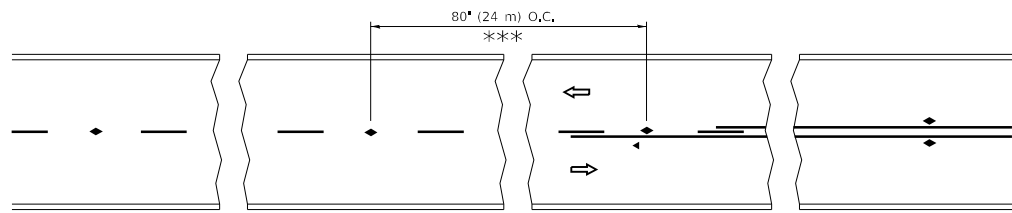
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footem]	L.H.A.	A. HOUSEH 10-15-96
50,0000' / in.		T. RAMMACHER 01-06-00
3/4/2019	06-89	A. SCHUETZE 07-01-13
		A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

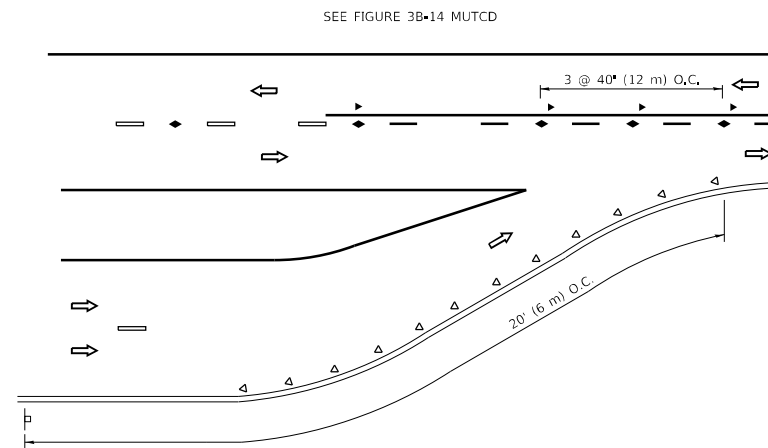
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				

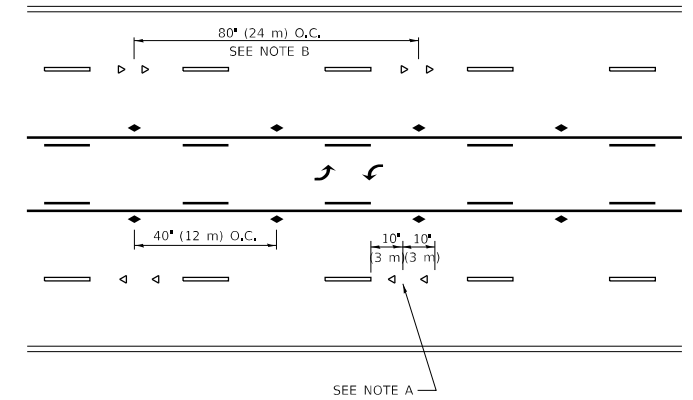


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

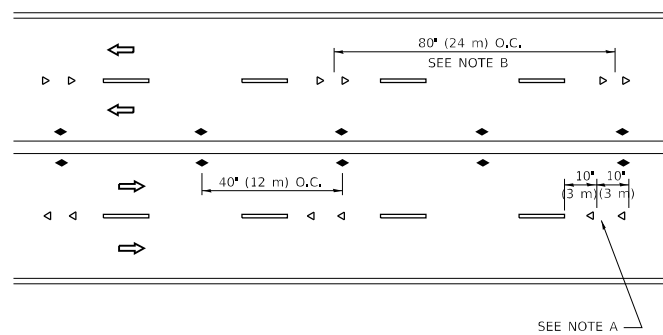
TWO-LANE/TWO-WAY



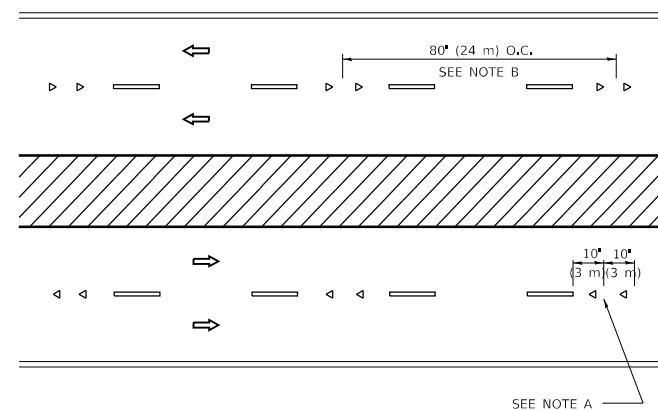
LANE REDUCTION TRANSITION



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

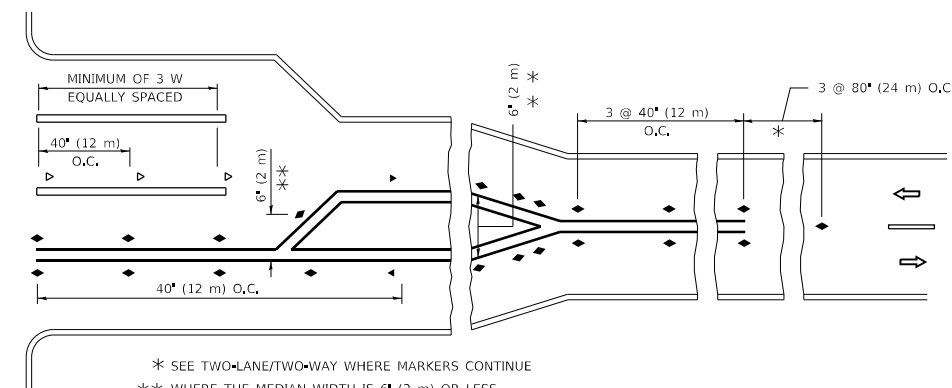
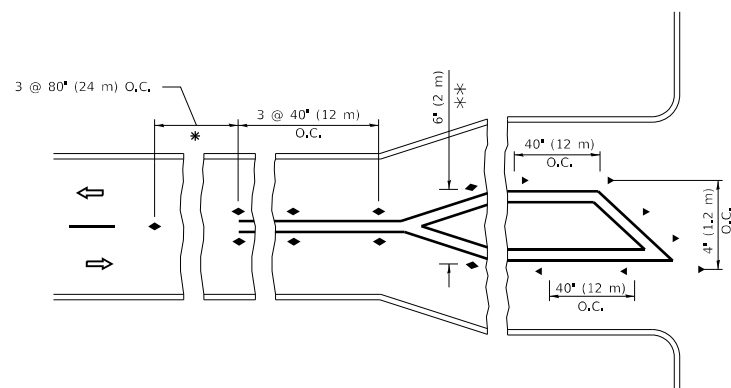
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

TURN LANES

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

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 PROJECT: IUBA\EBIDN1\EG...

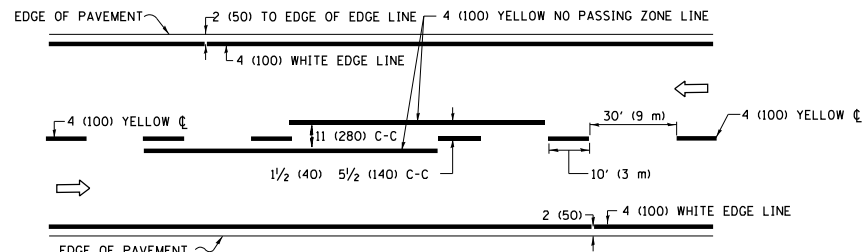
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DRAWN	REVISION	DATE
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DATE	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

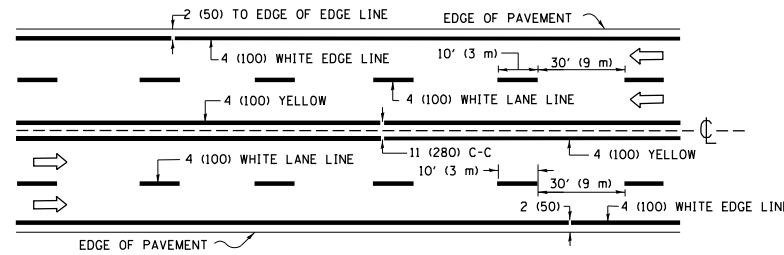
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

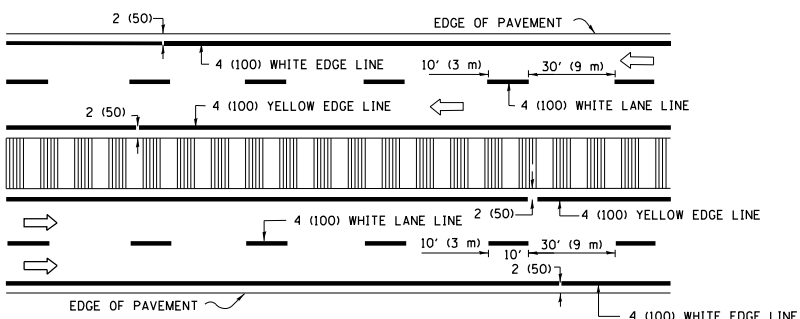
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	41
TC-11			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

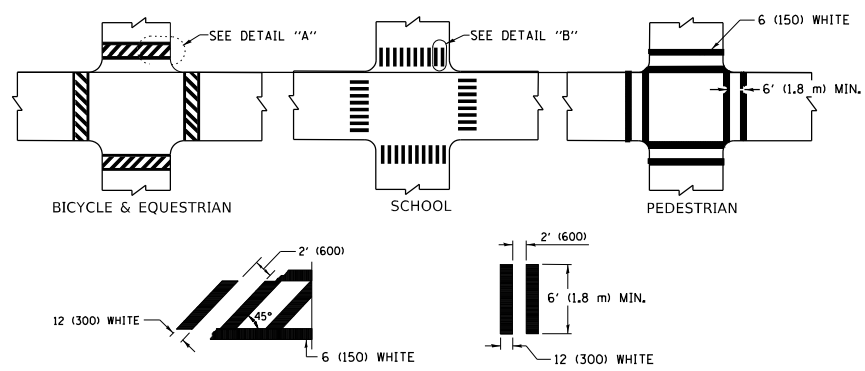


MULTI-LANE UNDIVIDED



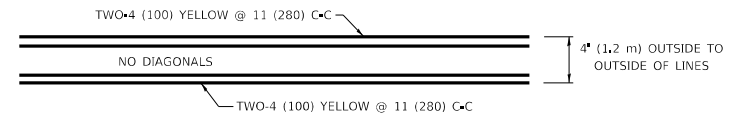
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

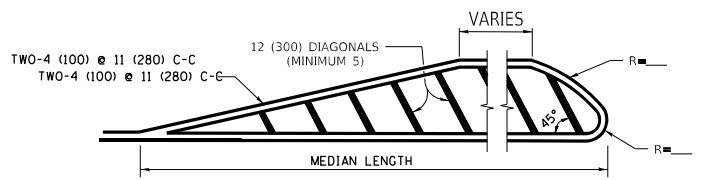


TYPICAL CROSSWALK MARKING

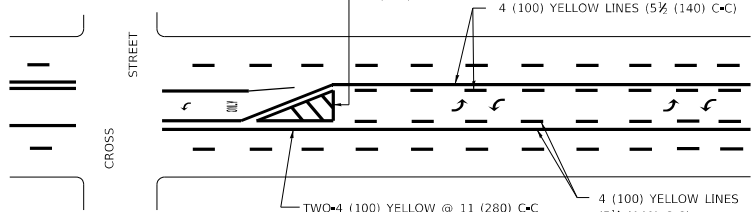
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



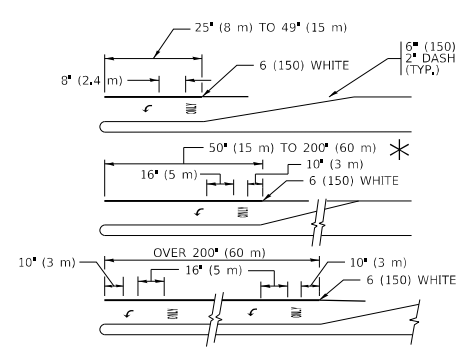
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



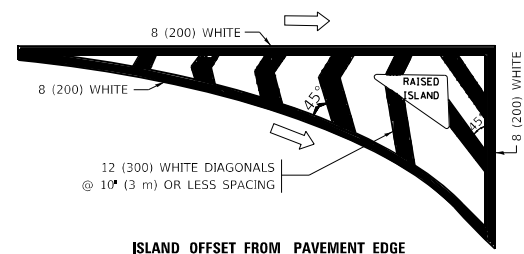
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



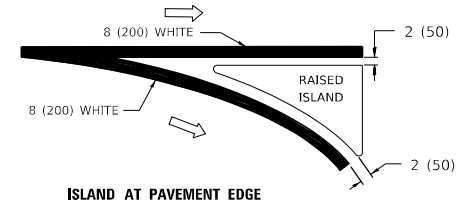
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

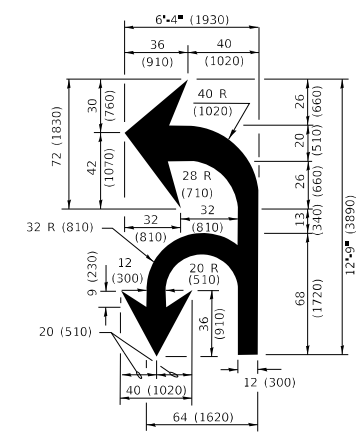


ISLAND OFFSET FROM PAVEMENT EDGE

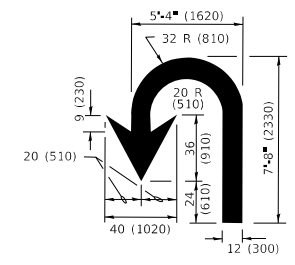


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

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	5 1/2 (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; 5 1/2 (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 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 8" (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.

MODEL: D:\ref\... FILE: I:\M&E\... PROJECT: ...

USER NAME	DESIGNED	REVISED
DRAWN	CHECKED	REVISED
PLOT SCALE	DATE	REVISED
PLOT DATE		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TYPICAL PAVEMENT MARKINGS		365	2021-040-RS	KANE	57	42
SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.		

TC-13		ILLINOIS		FED. AID PROJECT	
CONTRACT NO. 62N62					

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

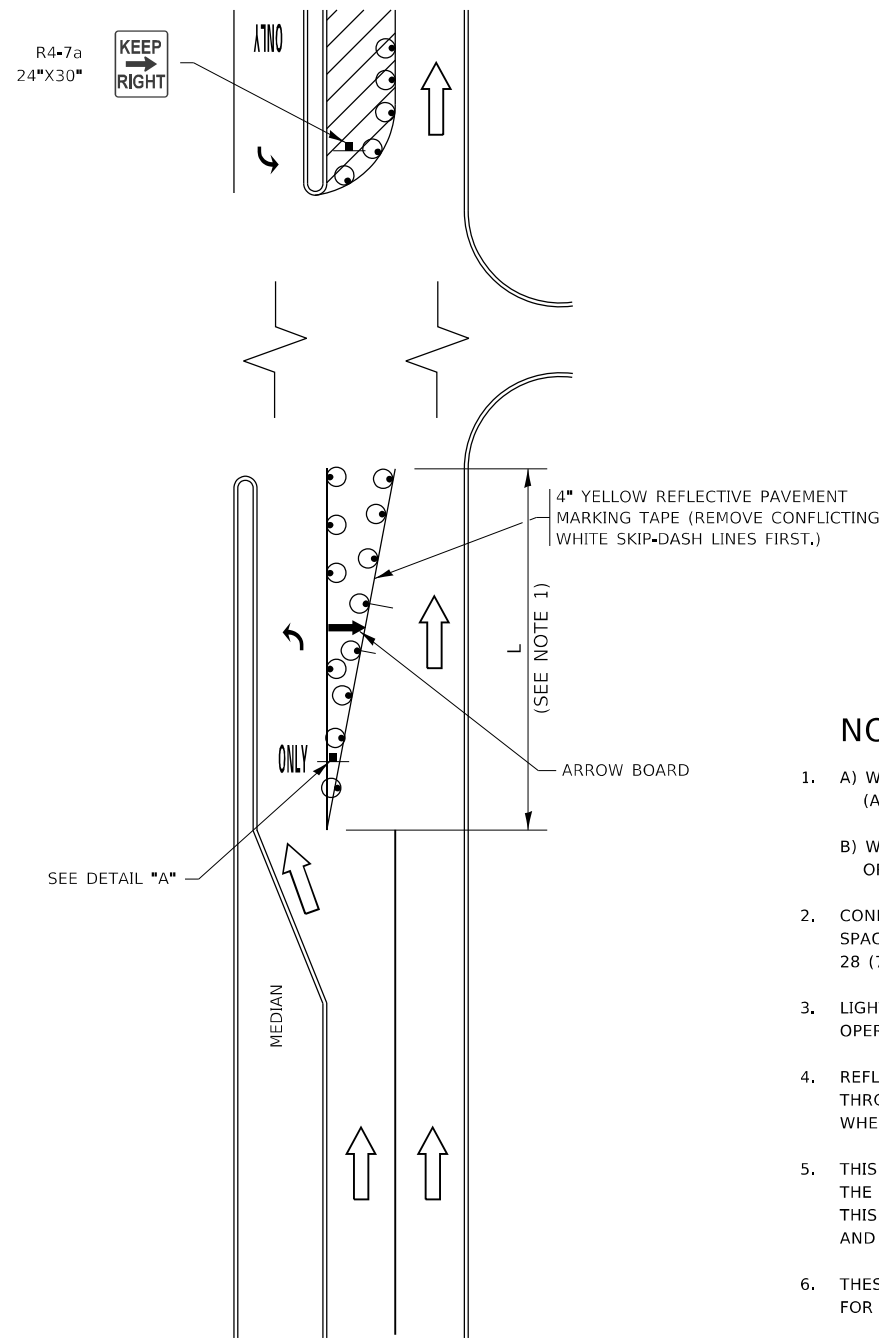


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

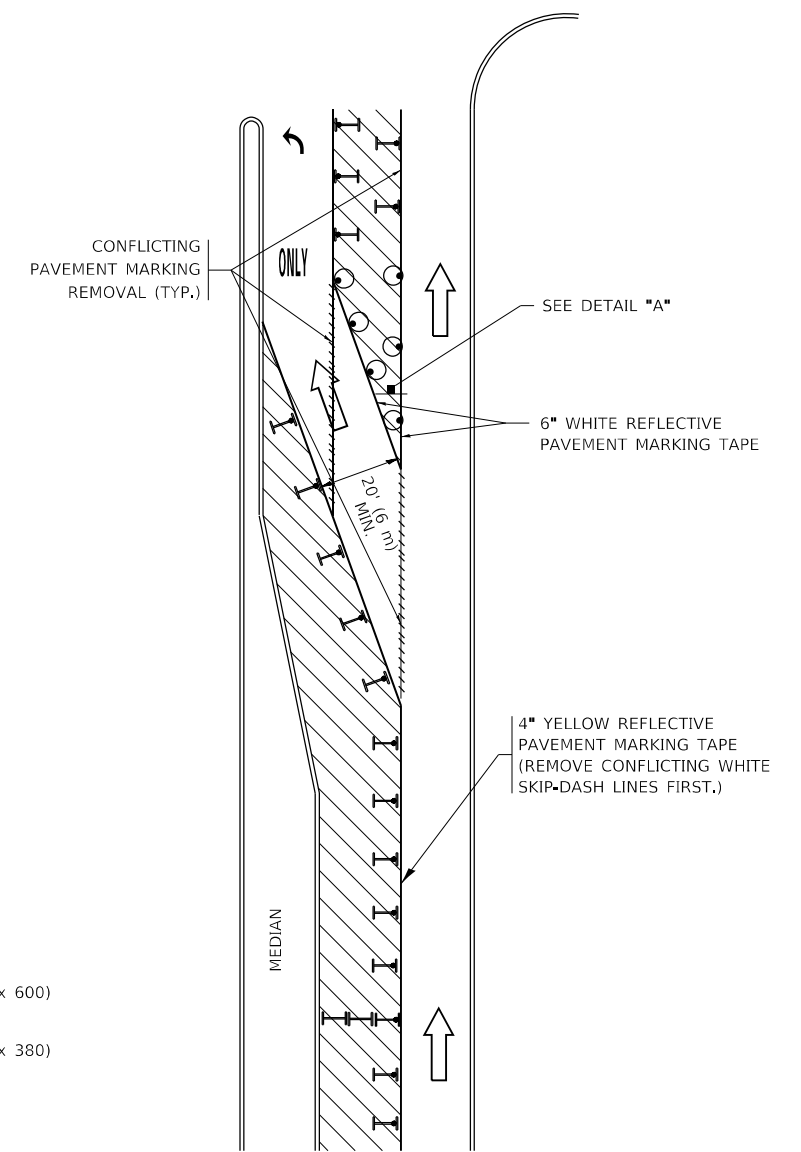


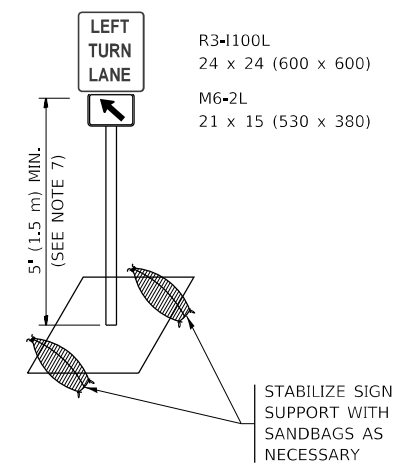
FIGURE 2

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.



DETAIL A

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

MODEL: D:\ref\c...
 FILE: I:\M&E_Plan\ILOB\EBID\NTEG...
 I:\ref\c...

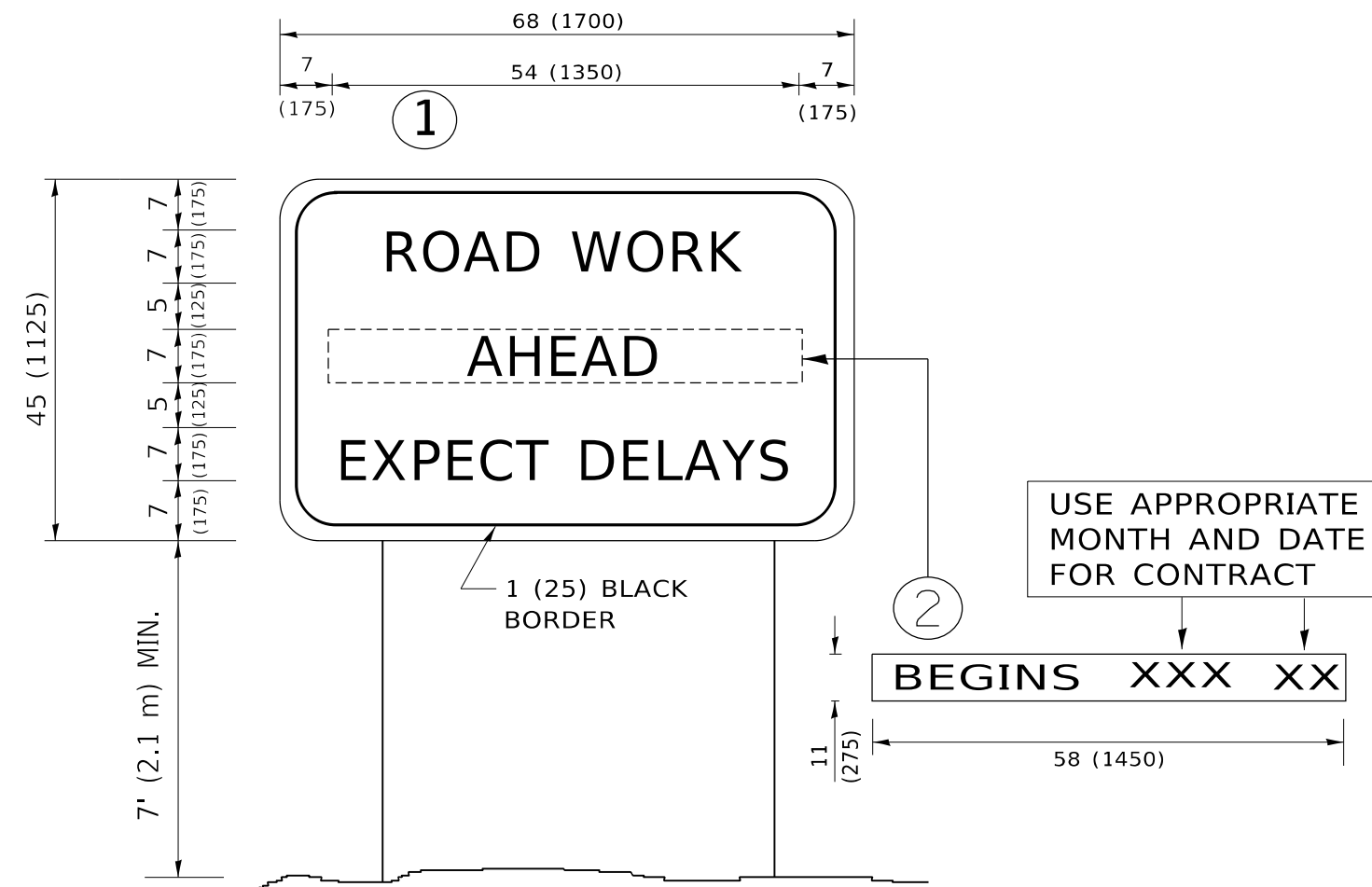
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DRAWN	- A. HOUSEH 11-07-95	REVISIONS	- A. SCHUETZE 07-01-13		
PLOT SCALE	50,0000 * / in.	CHECKED	- A. HOUSEH 10-12-96	REVISED	- A. SCHUETZE 09-15-16
PLOT DATE	3/4/2019	DATE	- T. RAMMACHER 01-06-00	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	43
TC-14		CONTRACT NO. 62N62		
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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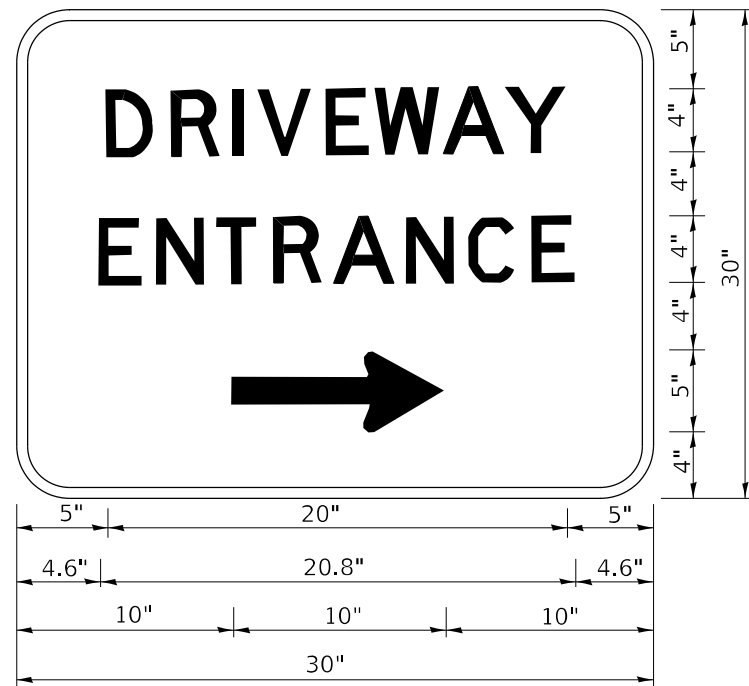
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DESIGNED	DRAWN	REVISED
PLOT SCALE	CHECKED	REVISED
PLOT DATE	DATE	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	45
TC-22			CONTRACT NO. 62N62	
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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		DRAWN	-	REVISED	-	
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PLOT DATE	■ 8/6/2021	DATE	-	REVISED	-	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	46
TC-26			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED	ITEM	EXISTING	PROPOSED
CONTROLLER CABINET			HANDHOLE -SQUARE -ROUND			SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD		
COMMUNICATION CABINET			HEAVY DUTY HANDHOLE -SQUARE -ROUND			SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE		
MASTER CONTROLLER			DOUBLE HANDHOLE			PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
MASTER MASTER CONTROLLER			JUNCTION BOX			PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER		
UNINTERRUPTABLE POWER SUPPLY			RAILROAD CANTILEVER MAST ARM			ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
SERVICE INSTALLATION -(P) POLE MOUNTED			RAILROAD FLASHING SIGNAL			NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED		
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED			RAILROAD CROSSING GATE			GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)		
TELEPHONE CONNECTION			RAILROAD CROSSBUCK			ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C		
STEEL MAST ARM ASSEMBLY AND POLE			RAILROAD CONTROLLER CABINET			COAXIAL CABLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE			UNDERGROUND CONDUIT (UC), GALVANIZED STEEL			VENDOR CABLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE			TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE			COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY			SYSTEM ITEM			FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F		
WOOD POLE			INTERSECTION ITEM			GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE		
GUY WIRE			REMOVE ITEM					
SIGNAL HEAD			RELOCATE ITEM					
SIGNAL HEAD WITH BACKPLATE			ABANDON ITEM					
SIGNAL HEAD OPTICALLY PROGRAMMED			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED					
FLASHER INSTALLATION -(FS) SOLAR POWERED			MAST ARM POLE AND FOUNDATION TO BE REMOVED					
PEDESTRIAN SIGNAL HEAD			SIGNAL POST AND FOUNDATION TO BE REMOVED					
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON			DETECTOR LOOP, TYPE I					
RADAR DETECTION SENSOR			PREFORMED DETECTOR LOOP					
VIDEO DETECTION CAMERA			SAMPLING (SYSTEM) DETECTOR					
RADAR/VIDEO DETECTION ZONE			INTERSECTION AND SAMPLING (SYSTEM) DETECTOR					
PAN, TILT, ZOOM (PTZ) CAMERA			QUEUE AND SAMPLING (SYSTEM) DETECTOR					
EMERGENCY VEHICLE LIGHT DETECTOR			WIRELESS DETECTOR SENSOR					
CONFIRMATION BEACON			WIRELESS ACCESS POINT					
WIRELESS INTERCONNECT								
WIRELESS INTERCONNECT RADIO REPEATER								

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

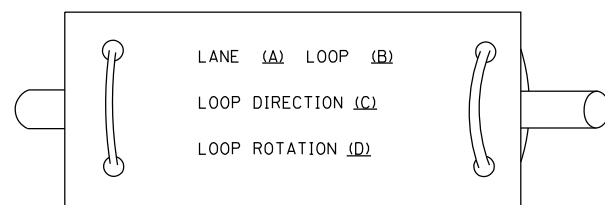
DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 1	OF 7 SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	47
TS-05			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				

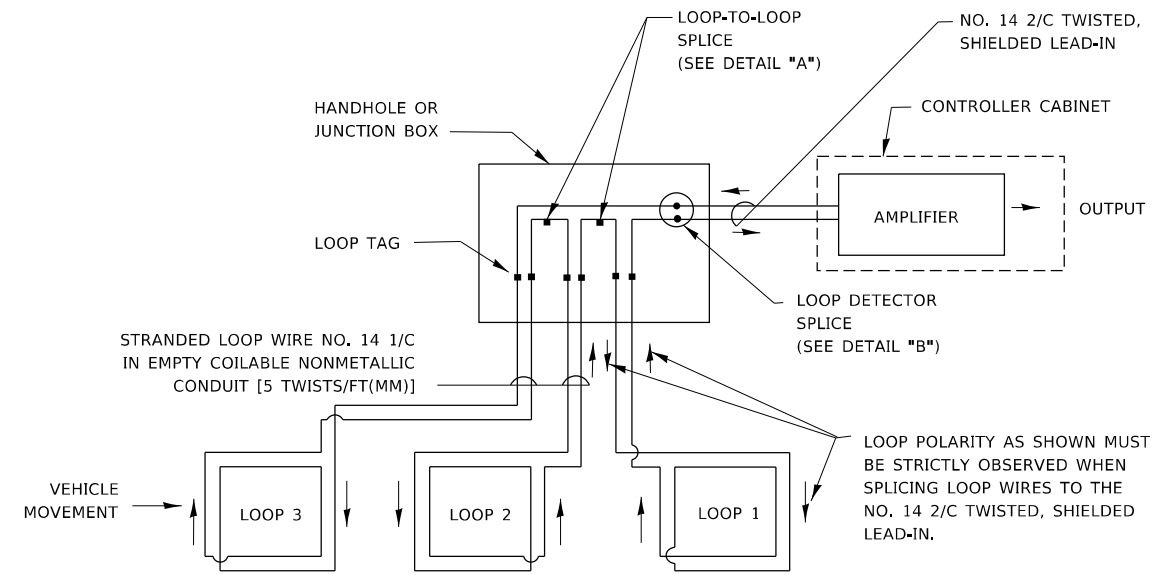
LOOP DETECTOR NOTES

1. EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
2. THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
3. EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
6. LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
7. PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

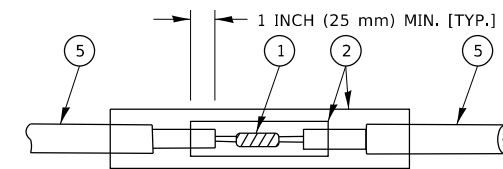


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

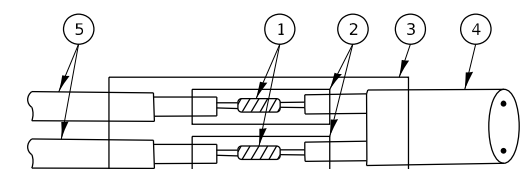


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm), IF IN CONCRETE.
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

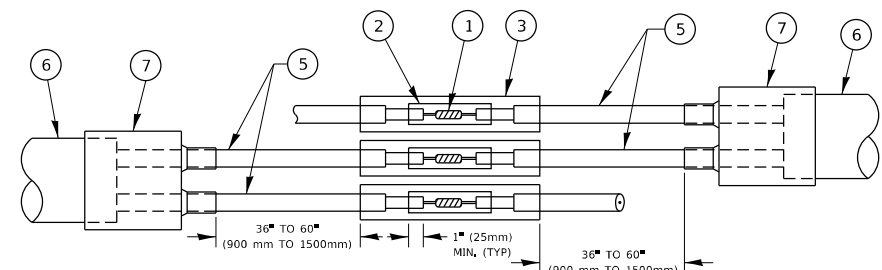


DETAIL "A"
LOOP-TO-LOOP SPLICE

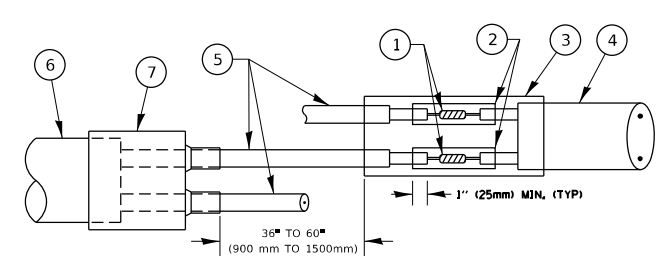


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- 1 WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- 2 WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- 3 WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- 4 NO. 14 2/C TWISTED, SHIELDED CABLE.
- 5 LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE, PREFORMED LOOP
- 6 XL POLYOLEFIN 2 CONDUCTOR
- 7 BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

STATE OF ILLINOIS
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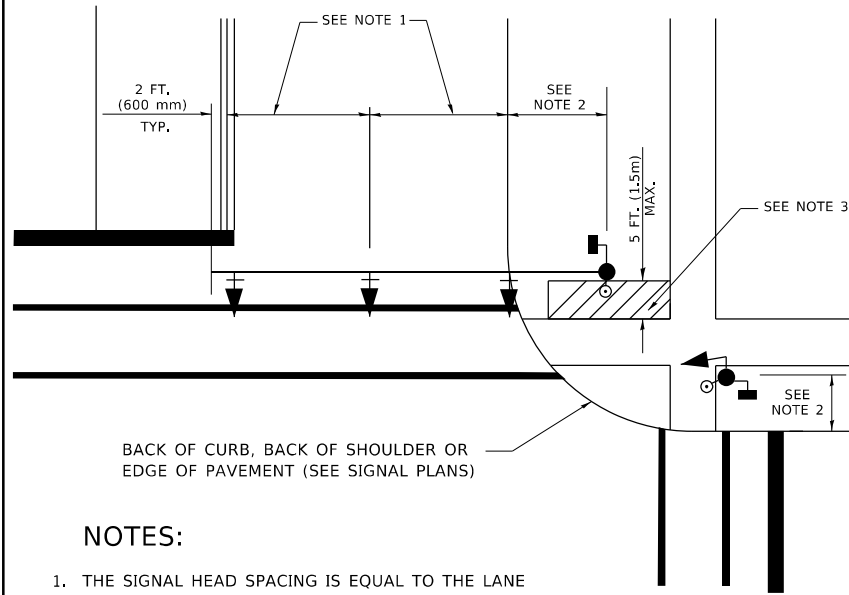
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	48
TS-05		CONTRACT NO. 62N62		
ILLINOIS		FED. AID PROJECT		

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

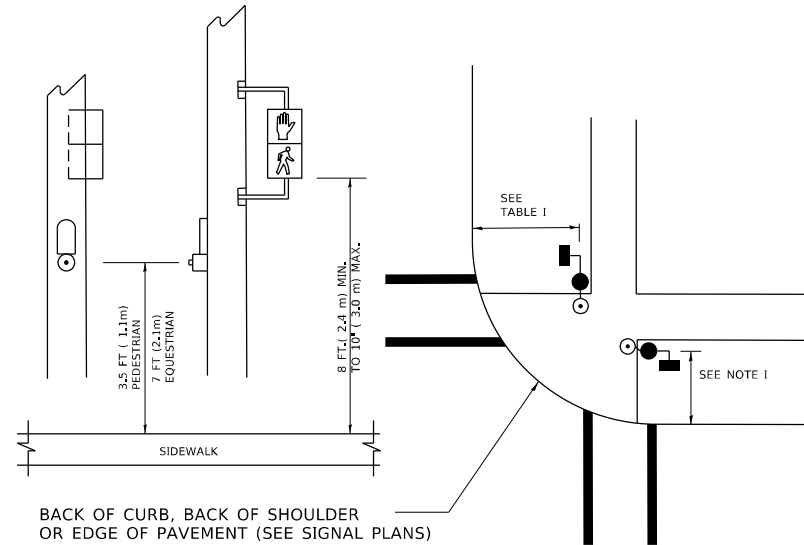
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

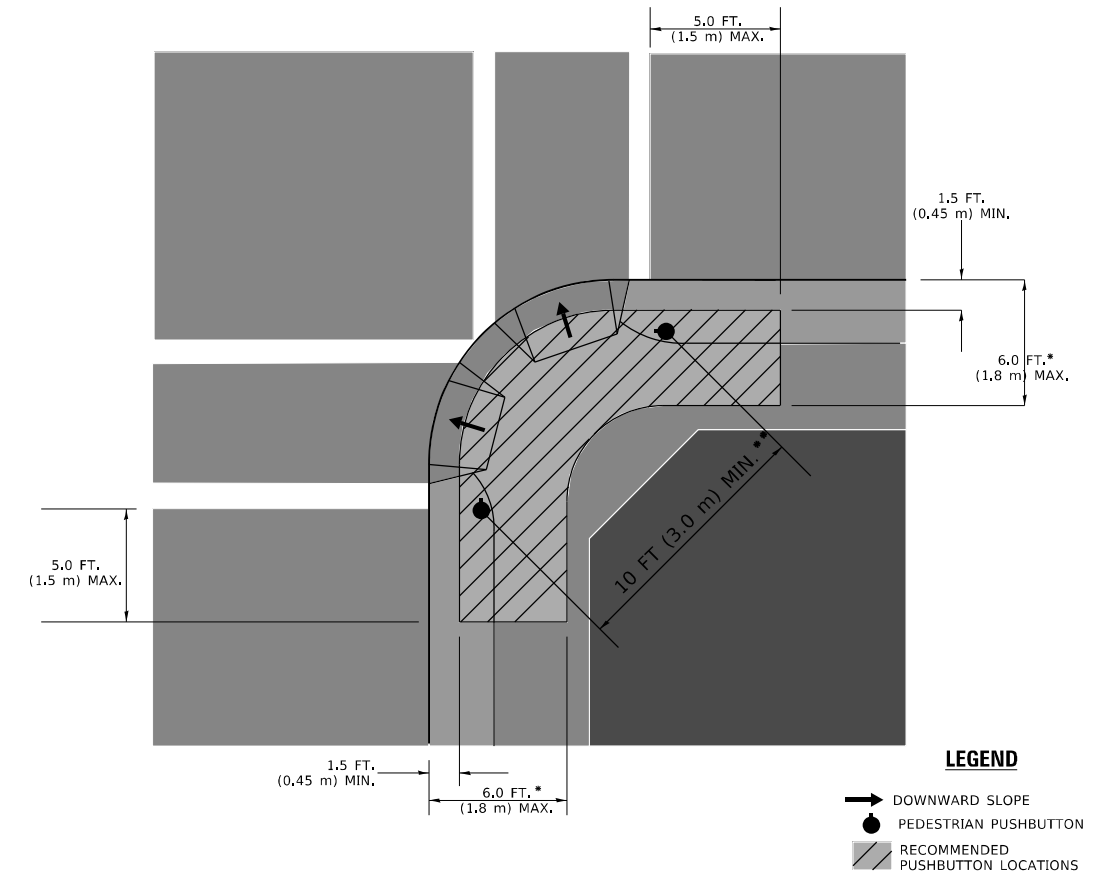
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TEMPORARY WOOD POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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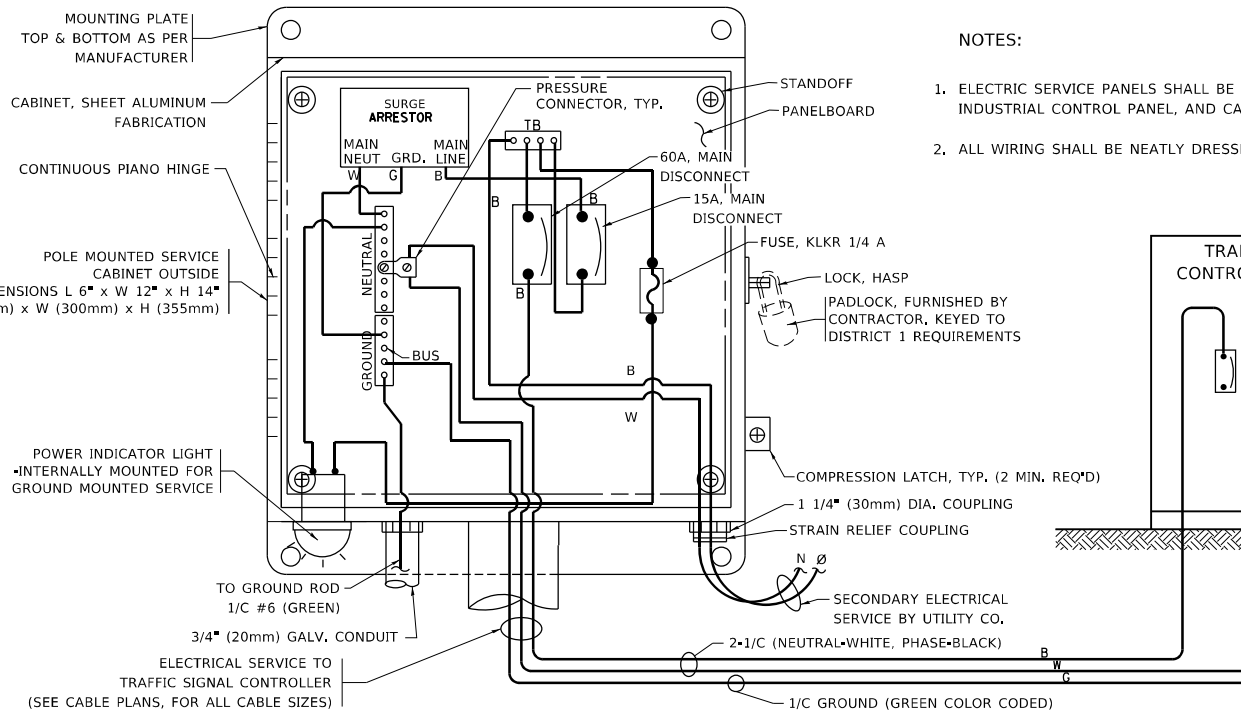
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

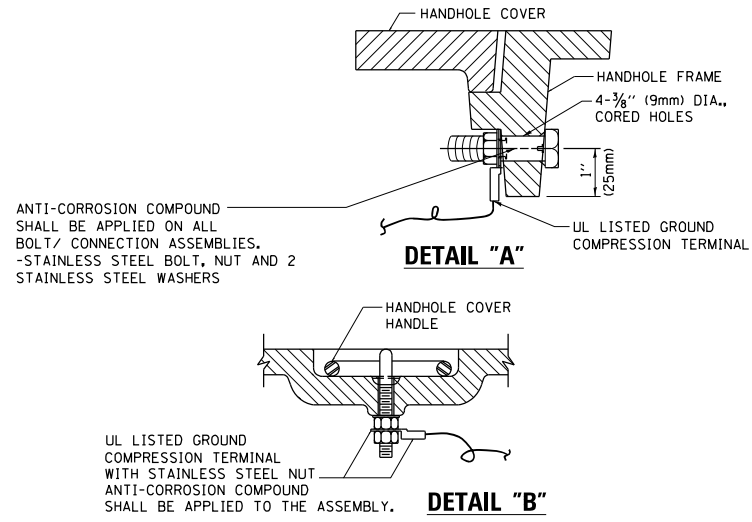
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	49
TS-05		CONTRACT NO. 62N62		
ILLINOIS FED. AID PROJECT				

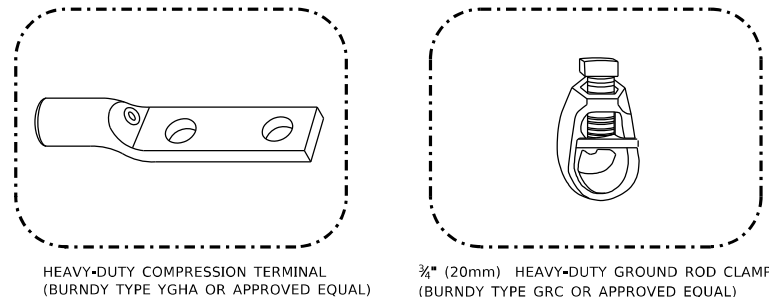
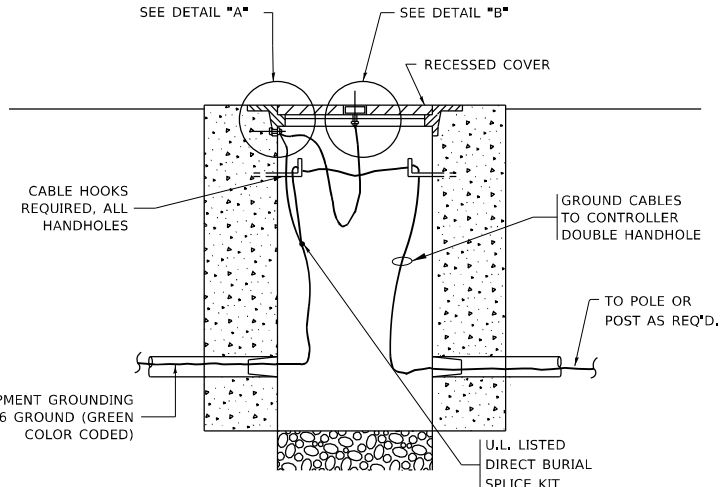


ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

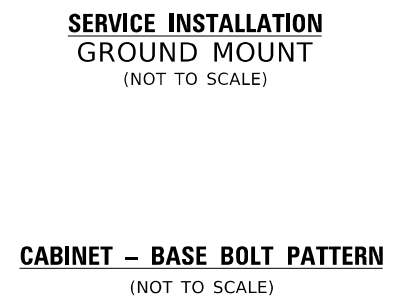
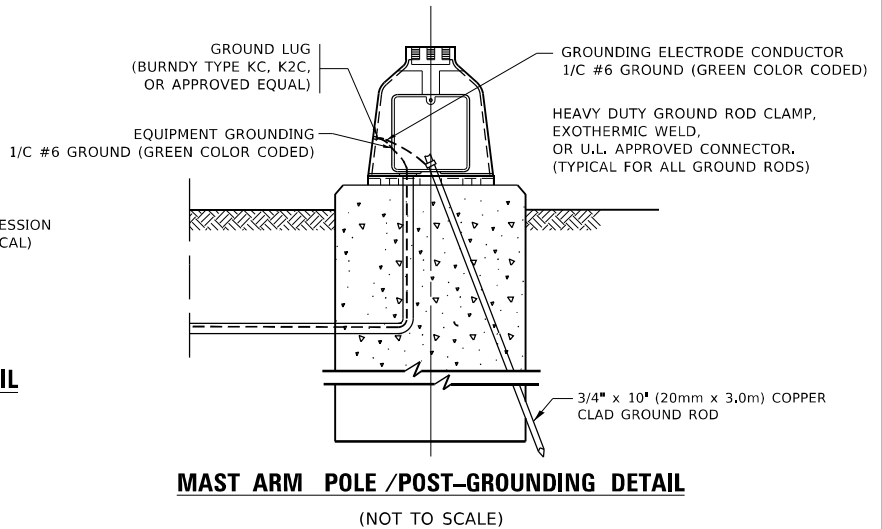
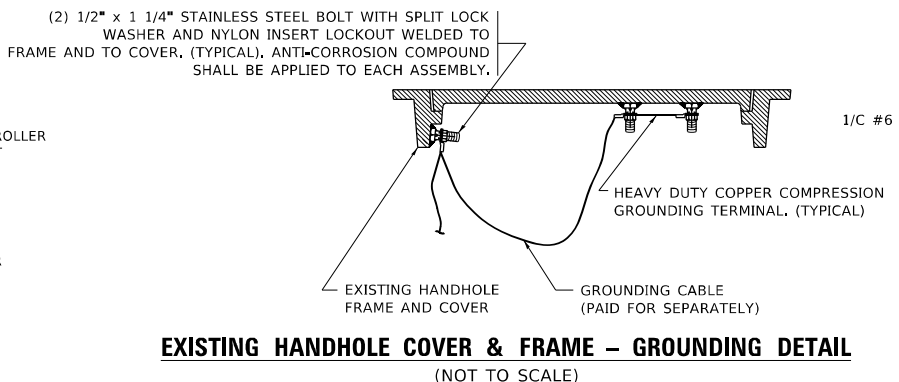
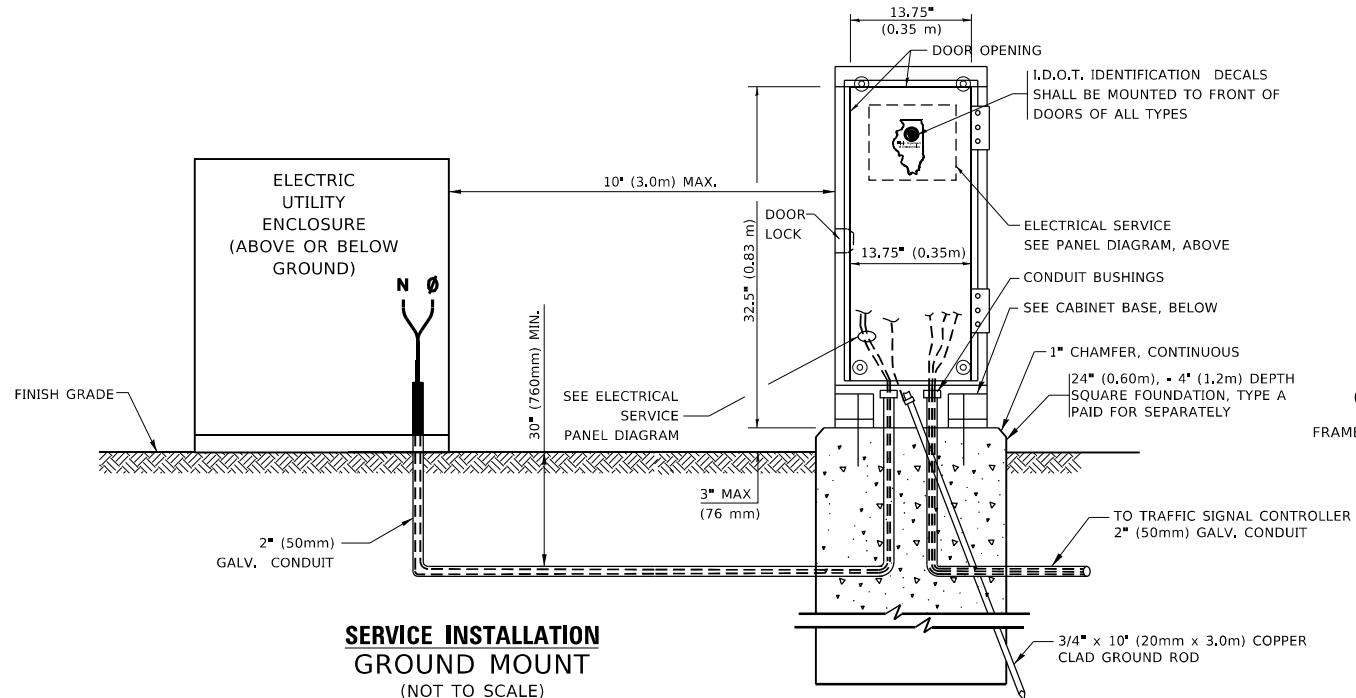


NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD, ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION, AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



- NOTES:**
- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
 - GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES, 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



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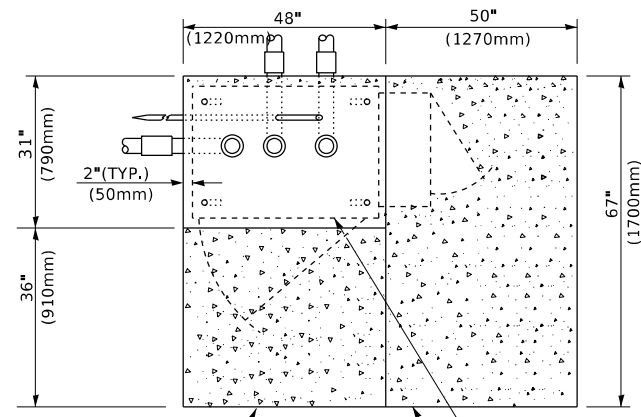
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

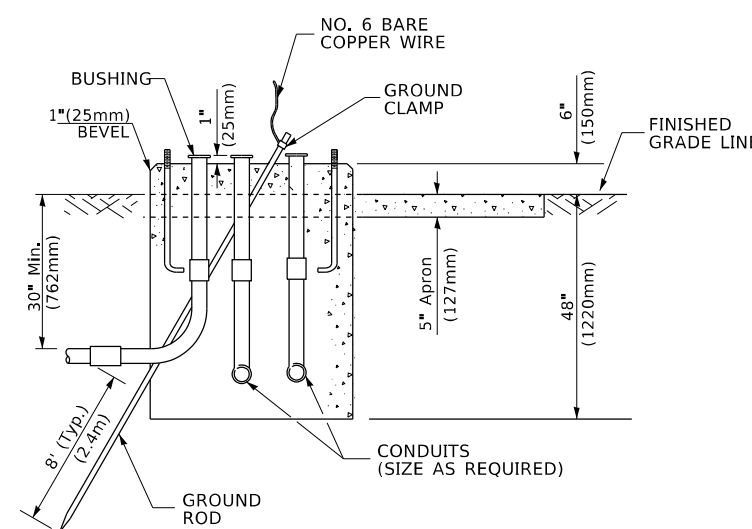
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: NONE SHEET 4 OF 7 SHEETS STA. TO STA.

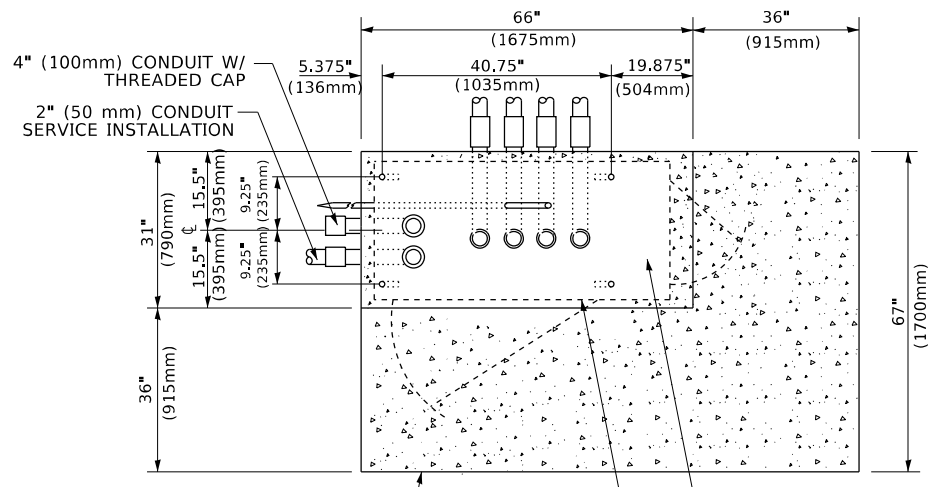
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	50
TS-05		CONTRACT NO. 62N62		
ILLINOIS FED. AID PROJECT				



TOP VIEW

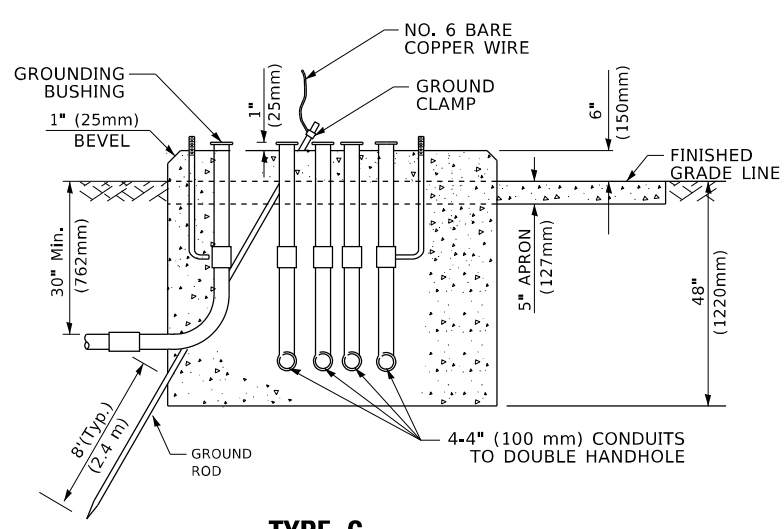


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

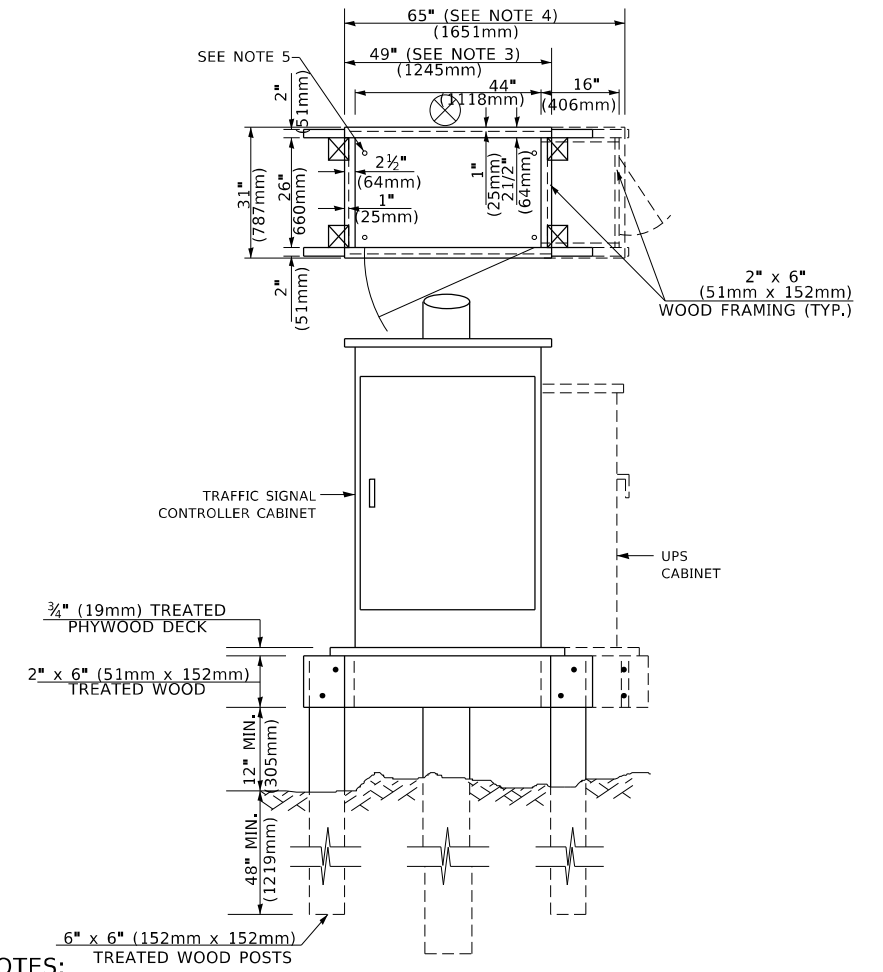


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE, FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION..

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

CABLE SLACK LENGTH	FEET	METER
HANDHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM)	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1.2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1.2m)
TYPE D - CONTROLLER	4'-0" (1.2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE	4'-0" (1.2m)

DEPTH OF FOUNDATION

MAST ARM LENGTH	① FOUNDATION DEPTH	FOUNDATION DIAMETER	SPIRAL DIAMETER	QUANTITY OF REBARS	SIZE OF REBARS
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (Qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

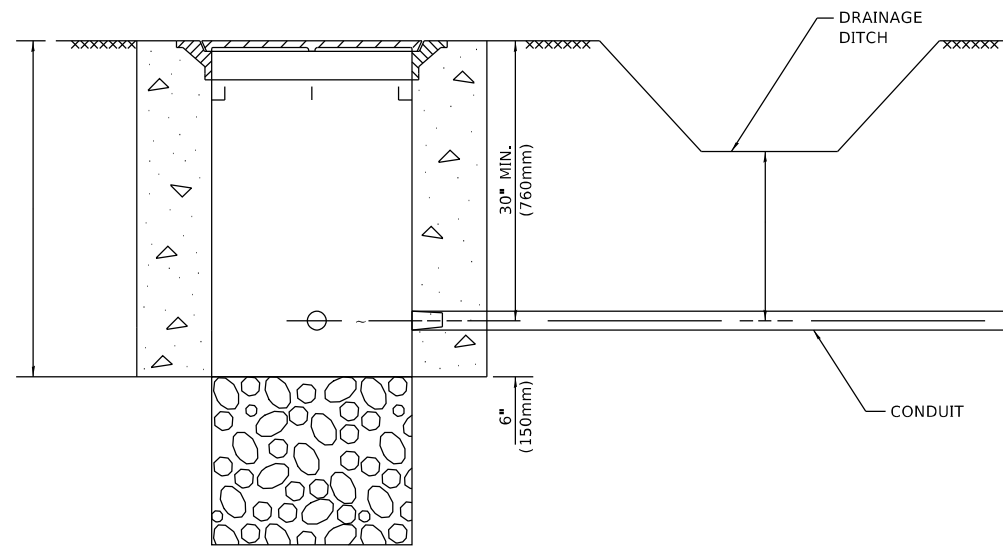
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 DATE: 3/4/2019

USER NAME	DESIGNED	REVISIONS
DRAWN	CHECKED	DATE
PLOT SCALE		
PLOT DATE		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE			
STANDARD TRAFFIC SIGNAL DESIGN DETAILS			
SCALE: NONE	SHEET 5 OF 7 SHEETS	STA. TO STA.	

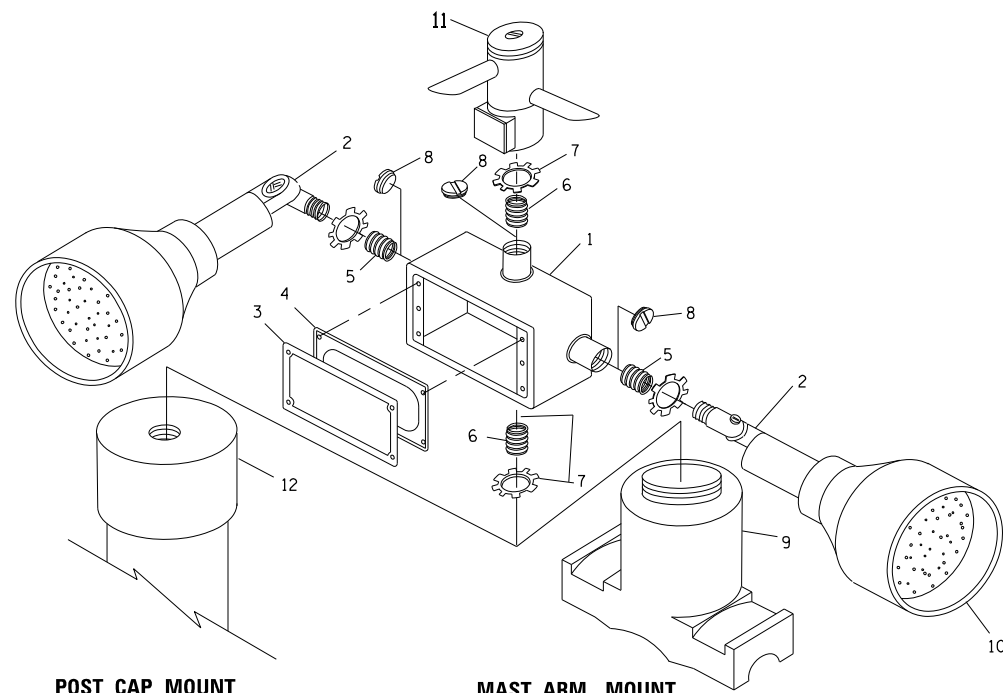
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	51
TS-05		CONTRACT NO. 62N62		
ILLINOIS		FED. AID PROJECT		



NOTES:

1. CONDUIT DEPTH SHALL BE A MINIMUM OF 30" (760mm) BELOW THE BOTTOM OF THE DRAINAGE DITCH OR ANY SLOPING GROUND
2. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL CONDUIT PLACED UNDER ROADWAY PAVEMENT, MULTI-USE PATHS, SIDEWALKS AND SOIL SURFACES.
3. THE MINIMUM CONDUIT DEPTH APPLIES TO ALL HANDHOLES, HEAVY DUTY HANDHOLES AND DOUBLE HANDHOLES.

HANDHOLE WITH MINIMUM CONDUIT DEPTH
(NOT TO SCALE)

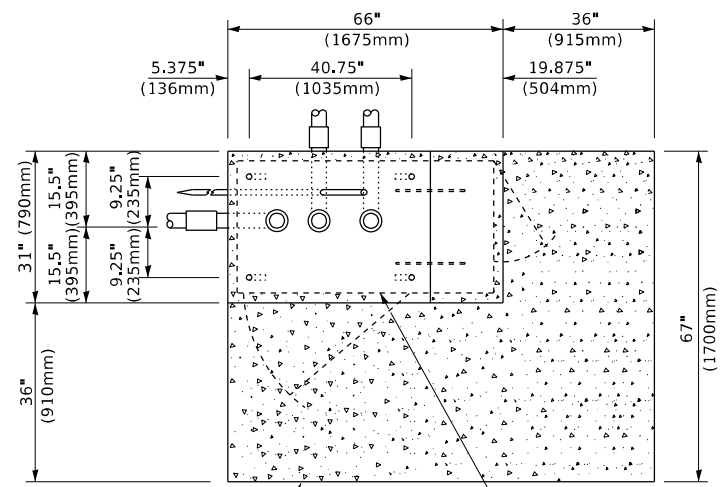


POST CAP MOUNT **MAST ARM MOUNT**
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION
BEACON MOUNTING DETAIL

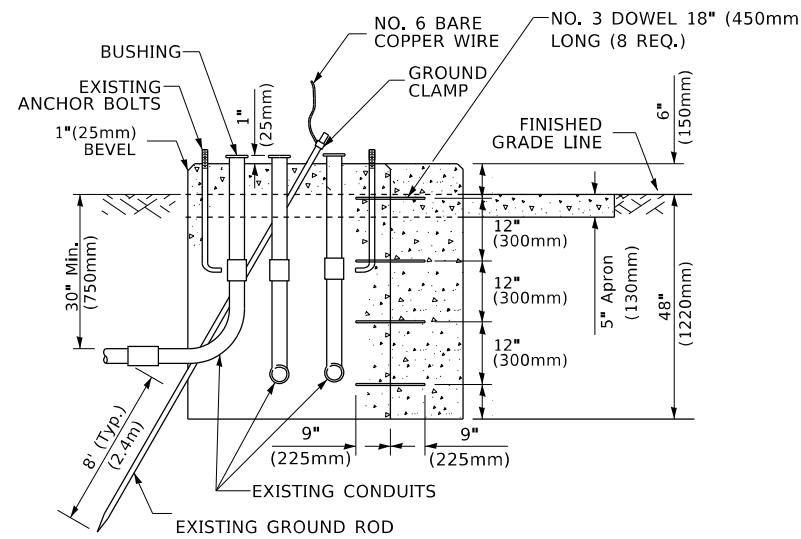
ITEM NO.	IDENTIFICATION
1	OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M)
2	LAMP HOLDER AND COVER
3	OUTLET BOX COVER
4	RUBBER COVER GASKET
5	REDUCING BUSHING
6	3/4" (19 mm) CLOSE NIPPLE
7	3/4" (19 mm) LOCKNUT
8	3/4" (19 mm) HOLE PLUG
9	SADDLE BRACKET - GALV.
10	6 WATT PAR 38 LED FLOOD LAMP
11	DETECTOR UNIT
12	POST CAP [18 FT. (5.4 m) POST MIN.]

NOTES:

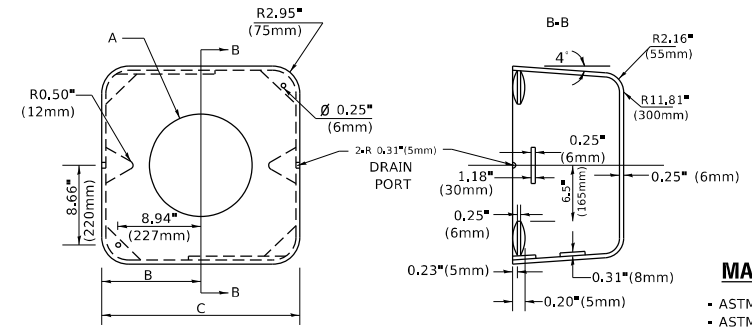
1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
2. ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
3. WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4" (19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



TOP VIEW
(NOT TO SCALE)



MODIFY EXISTING TYPE "D" FOUNDATION TO TYPE "C" FOUNDATION
(NOT TO SCALE)



MATERIAL
• ASTM A36 STEEL
• ASTM A-123 HOT DIPPED GALVANIZED

A	B	C	HEIGHT	WEIGHT
VARIES	9.5" (241mm)	19" (483mm)	7" (178mm) • 12" (300mm)	53 lbs (24kg)
VARIES	10.75" (273mm)	21.5" (546mm)	7" (178mm) • 12" (300mm)	68 lbs (31 kg)
VARIES	13.0" (330mm)	26" (660mm)	7" (178mm) • 12" (300mm)	81 lbs (37 kg)
VARIES	18.5" (470mm)	37" (940mm)	7" (178mm) • 12" (300mm)	126 lbs (57 kg)

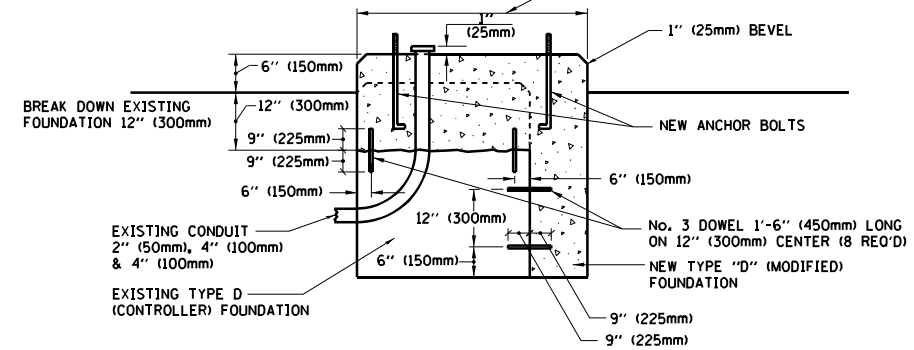
SHROUD

NOTES:

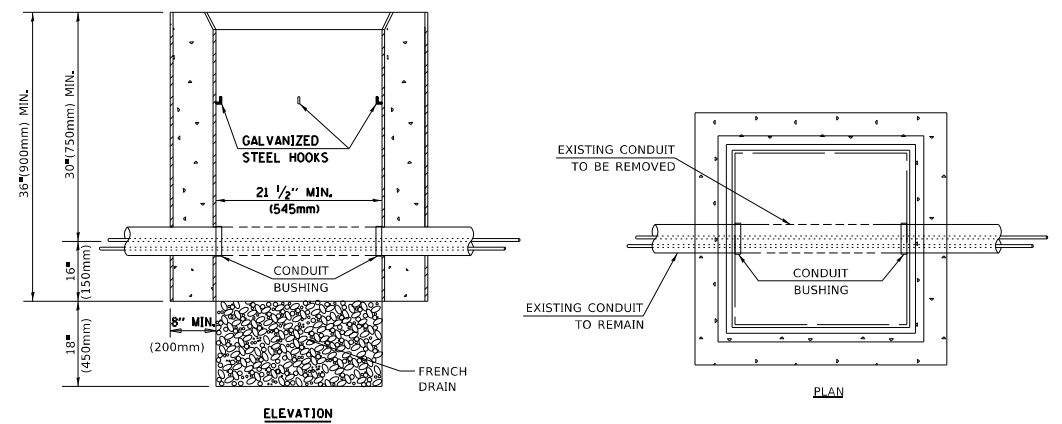
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFY THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.

NOTE:

SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



MODIFY EXISTING TYPE "D" FOUNDATION



NOTES:

1. HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCLUDED WITH THE COST OF THE HANDHOLE.

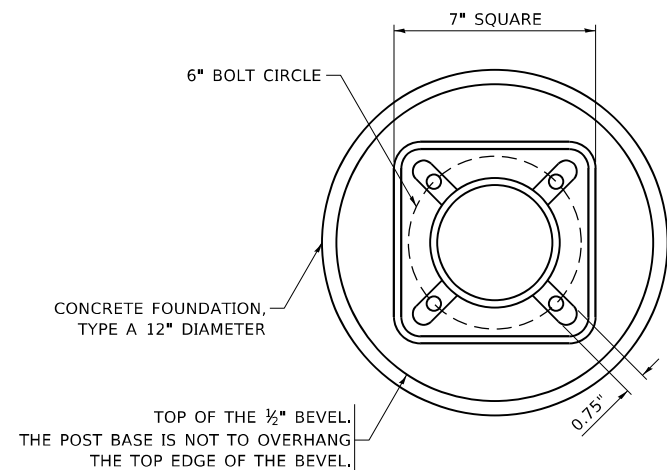
HANDHOLE TO INTERCEPT EXISTING CONDUIT

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

USER NAME	DESIGNED	REVISED
DRAWN	CHECKED	REVISED
PLOT SCALE	DATE	REVISED
PLOT DATE		

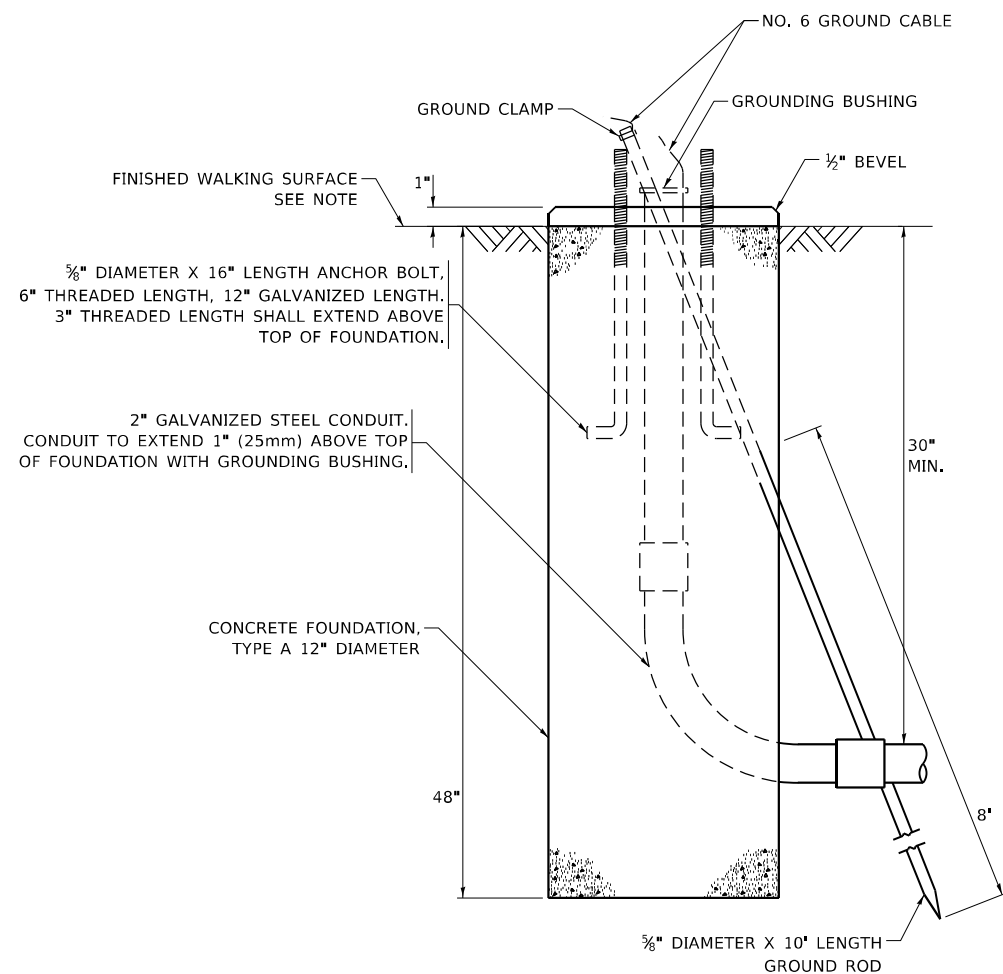
SCALE: NONE	SHEET 6 OF 7 SHEETS	STA. TO STA.	F.A. RTE. 365	SECTION 2021-040-RS	COUNTY KANE	TOTAL SHEETS 57	SHEET NO. 52
			TS-05		CONTRACT NO. 62N62		
			ILLINOIS / FED. AID PROJECT				



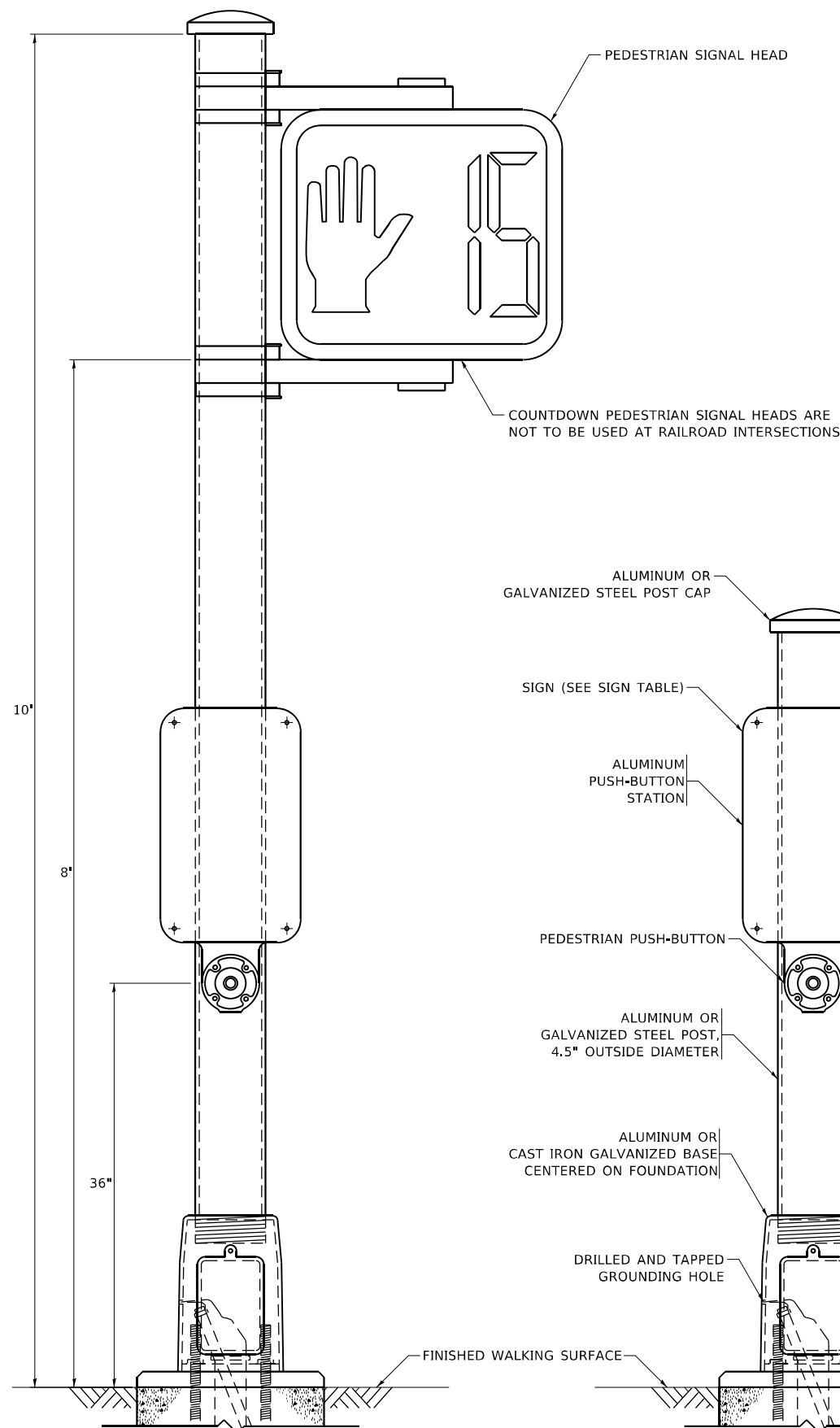
BOLT PATTERN

NOTE:

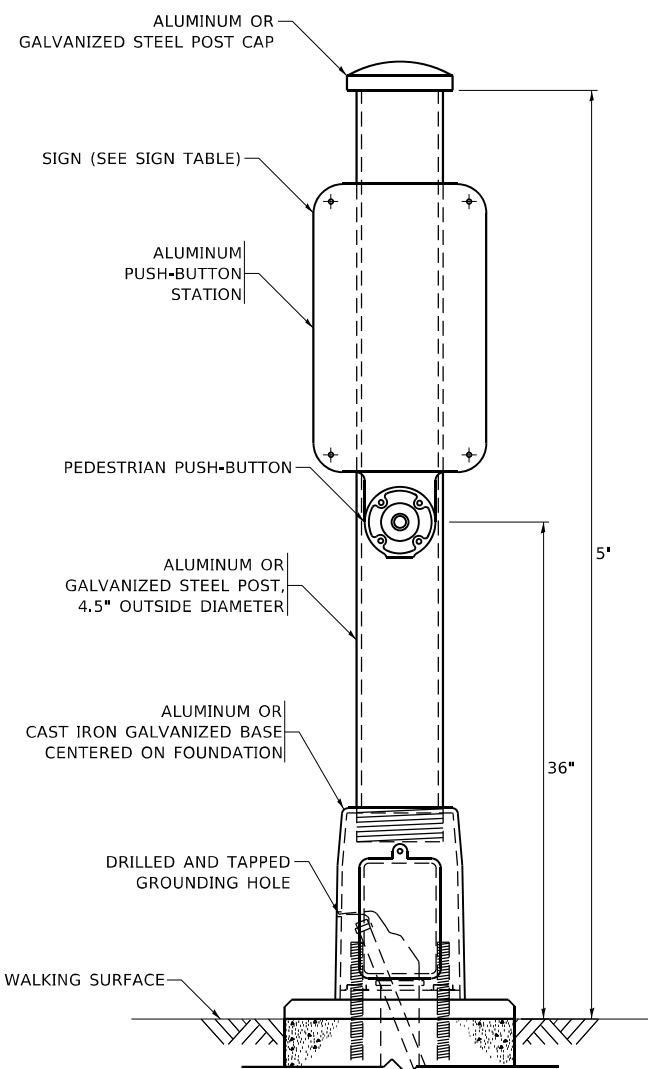
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



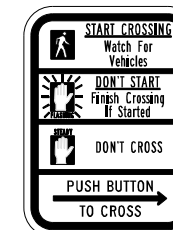
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER



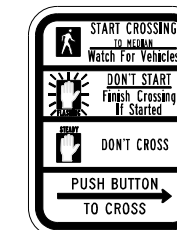
PEDESTRIAN SIGNAL POST, 10 FT.



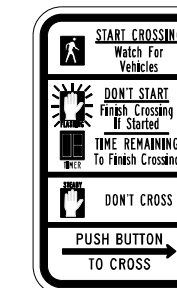
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:

1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL: Defaul... FILE: \\p01p0101\Documents\DOT Office\Bart.fct... 11/23/2020

USER NAME	DESIGNED	REVISIONS
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PLOT SCALE	CHECKED	REVISIONS
100,0000' / 1in.	LP	
PLOT DATE	DATE	REVISIONS
11/23/2020	10-15-2018	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

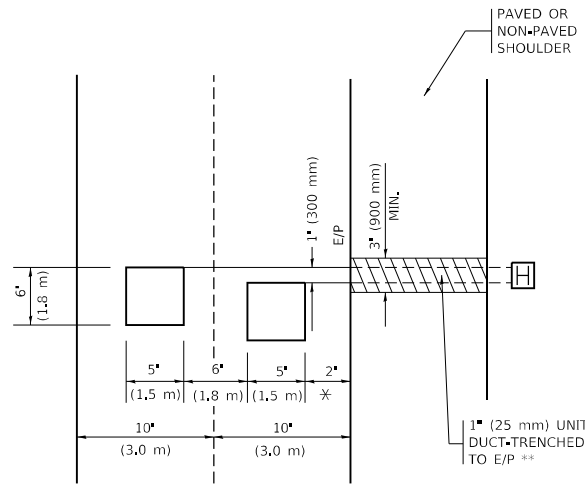
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 7 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	53
TS-05		CONTRACT NO. 62N62		
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



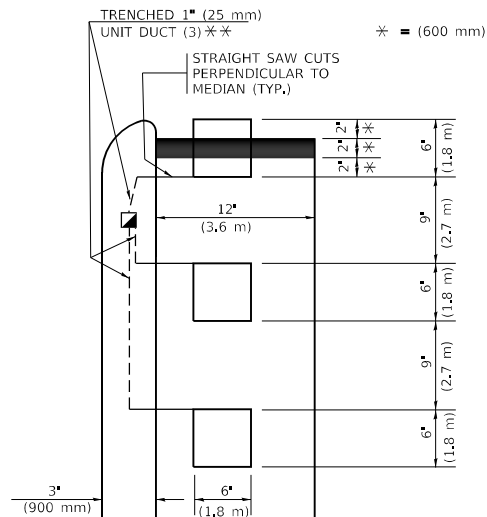
* = (600 mm)

** 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.



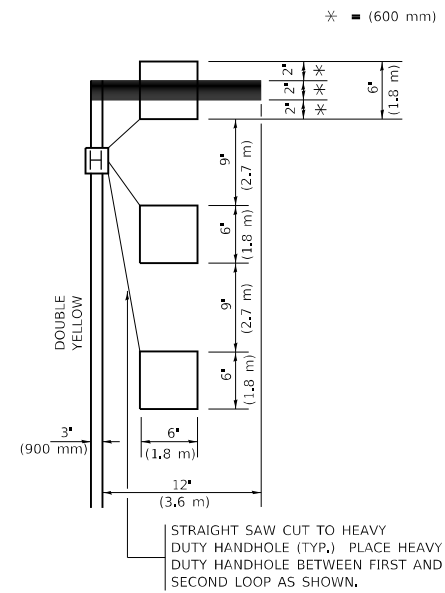
* = (600 mm)

** 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.

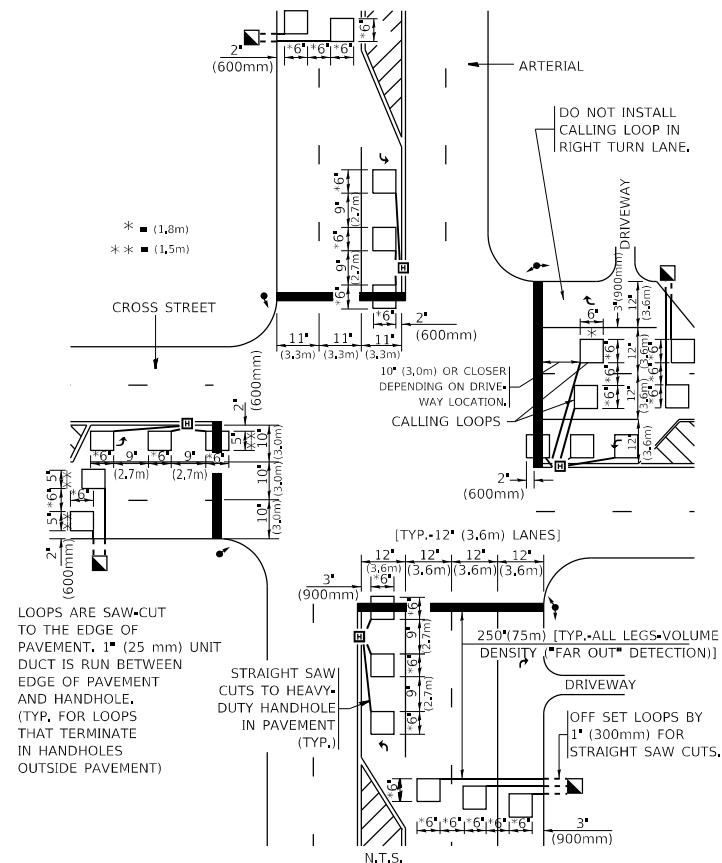
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

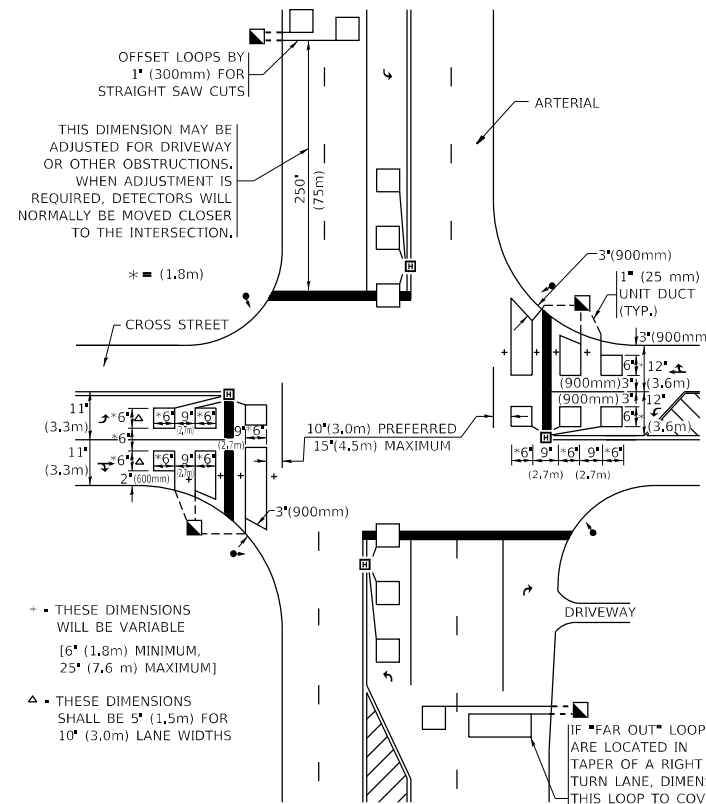


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
N.T.S.

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



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

• THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

▲ THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

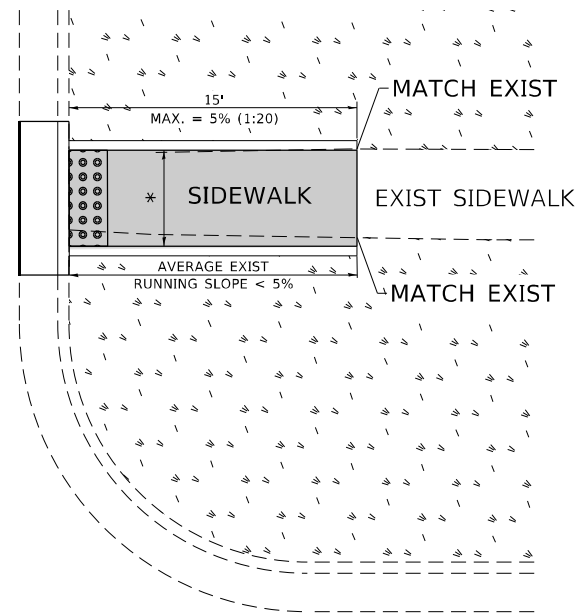
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	54
TS-07		CONTRACT NO. 62N62		

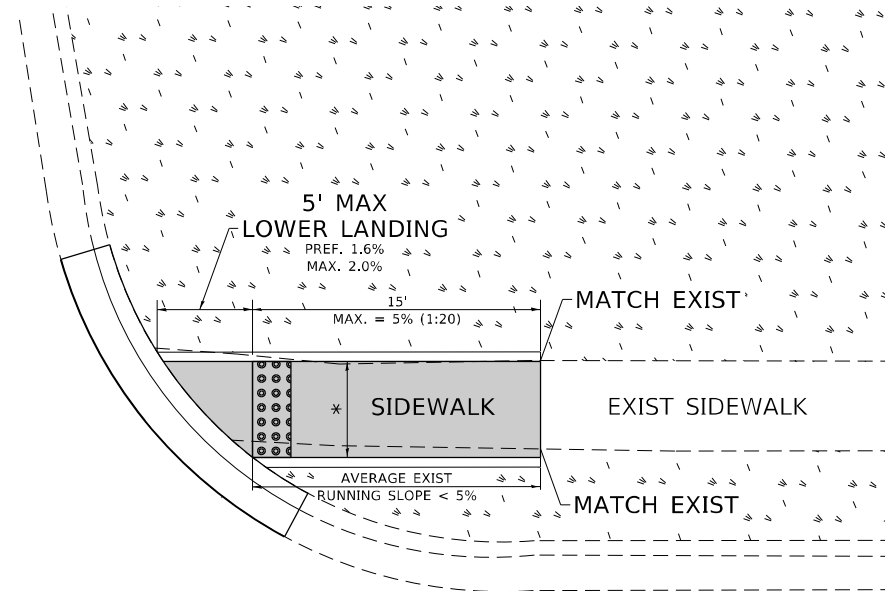
ILLINOIS FED. AID PROJECT

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

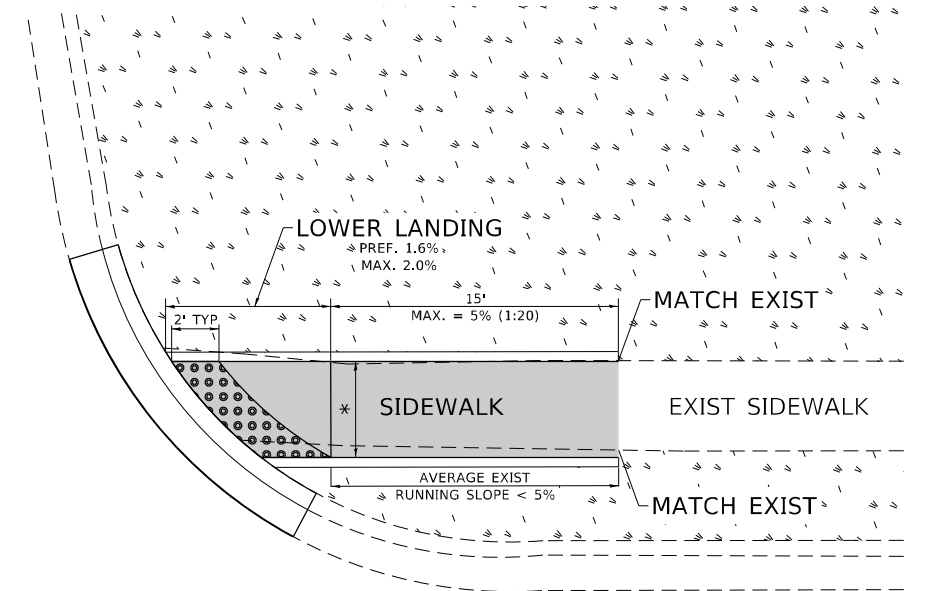
PD-01A



PD-01B



PD-01C



LEGEND

PROPOSED SIDE CURB
 EXIST. GRASS
 PROPOSED SIDEWALK
 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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USER NAME = gagliarob	DESIGNED -	REVISED -
PLOT SCALE = 100,000' / in.	DRAWN - R. LEDEZMA	REVISED -
PLOT DATE = 12/9/2019	CHECKED -	REVISED -
	DATE - 10/02/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

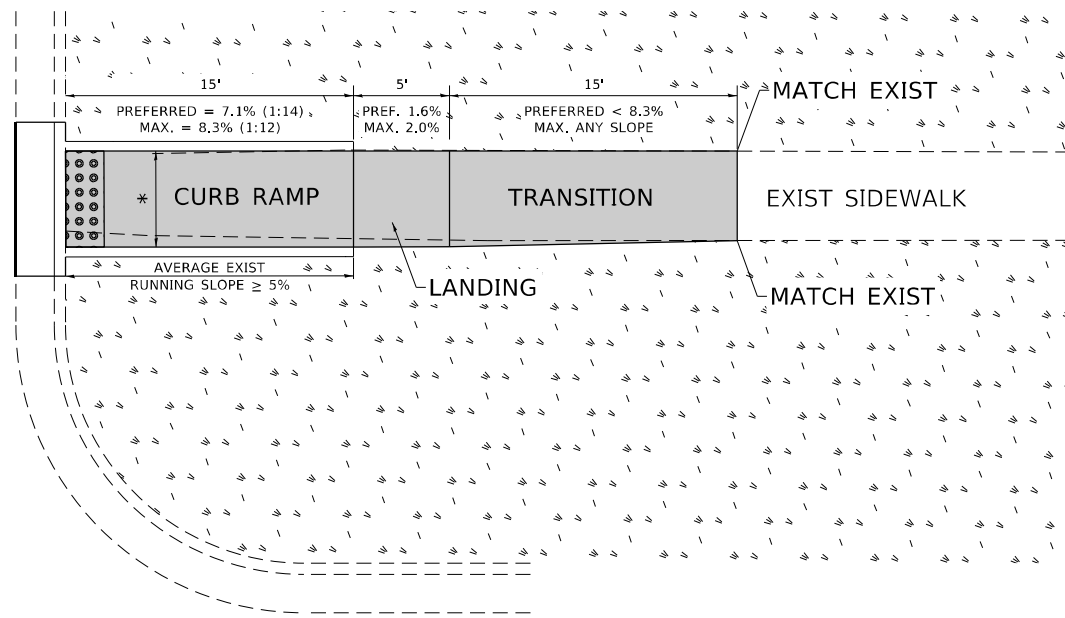
PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-01)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

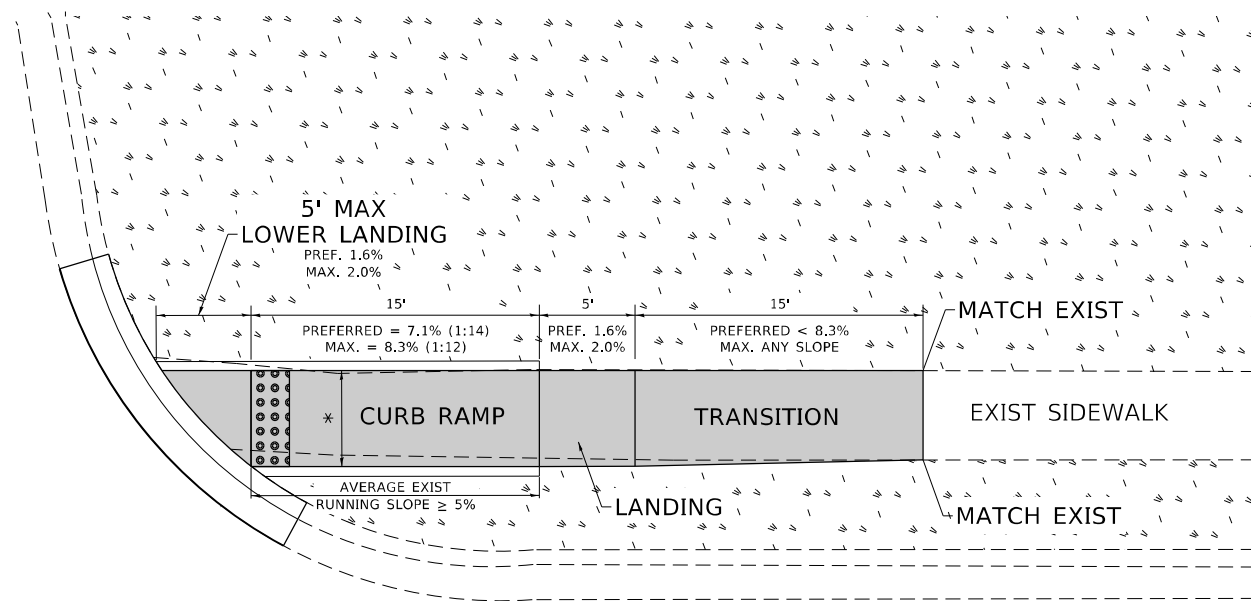
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	55
PD-01		CONTRACT NO. 62N62		
ILLINOIS FED. AID PROJECT				

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

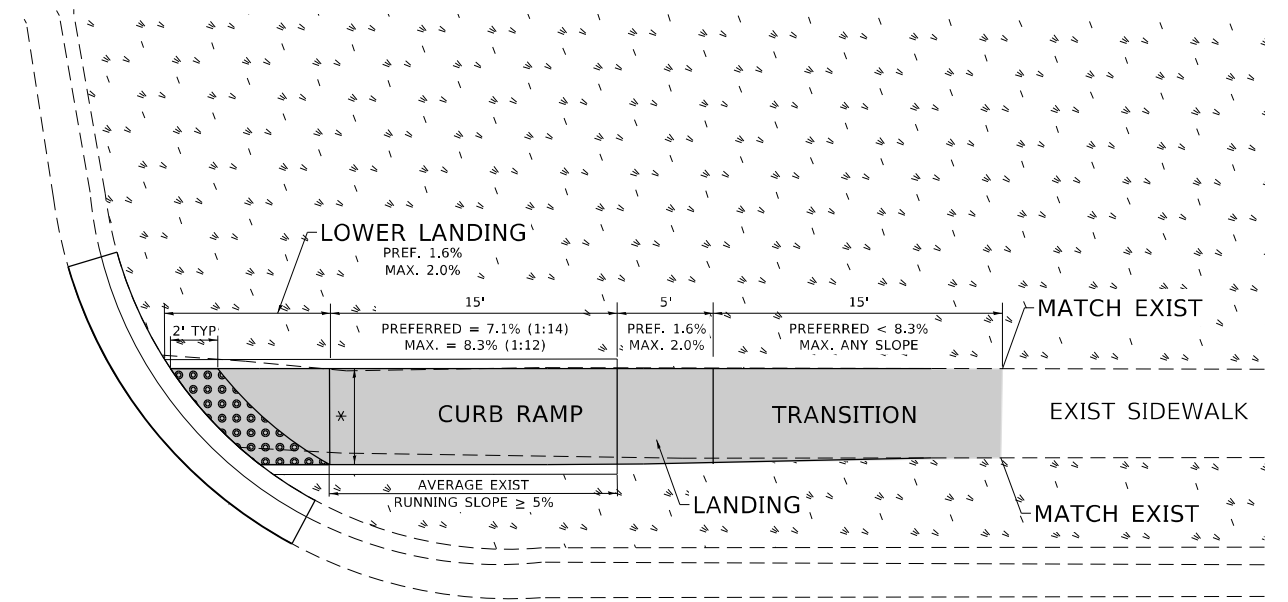
PD-02A



PD-02B



PD-02C



LEGEND

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

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

MODEL: Default
FILE NAME: \\sullivan\baron\dot\illinois\dot\pww\DOT\Documents\DOT Office\Drawings\Projects\Illinois\2021\2021-040-RS\CONTRACT\62N62.dwg

USER NAME = gagliarob	DESIGNED -	REVISED -	
	DRAWN - R. LEDEZMA	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/13/2019	DATE - 10/02/2019	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

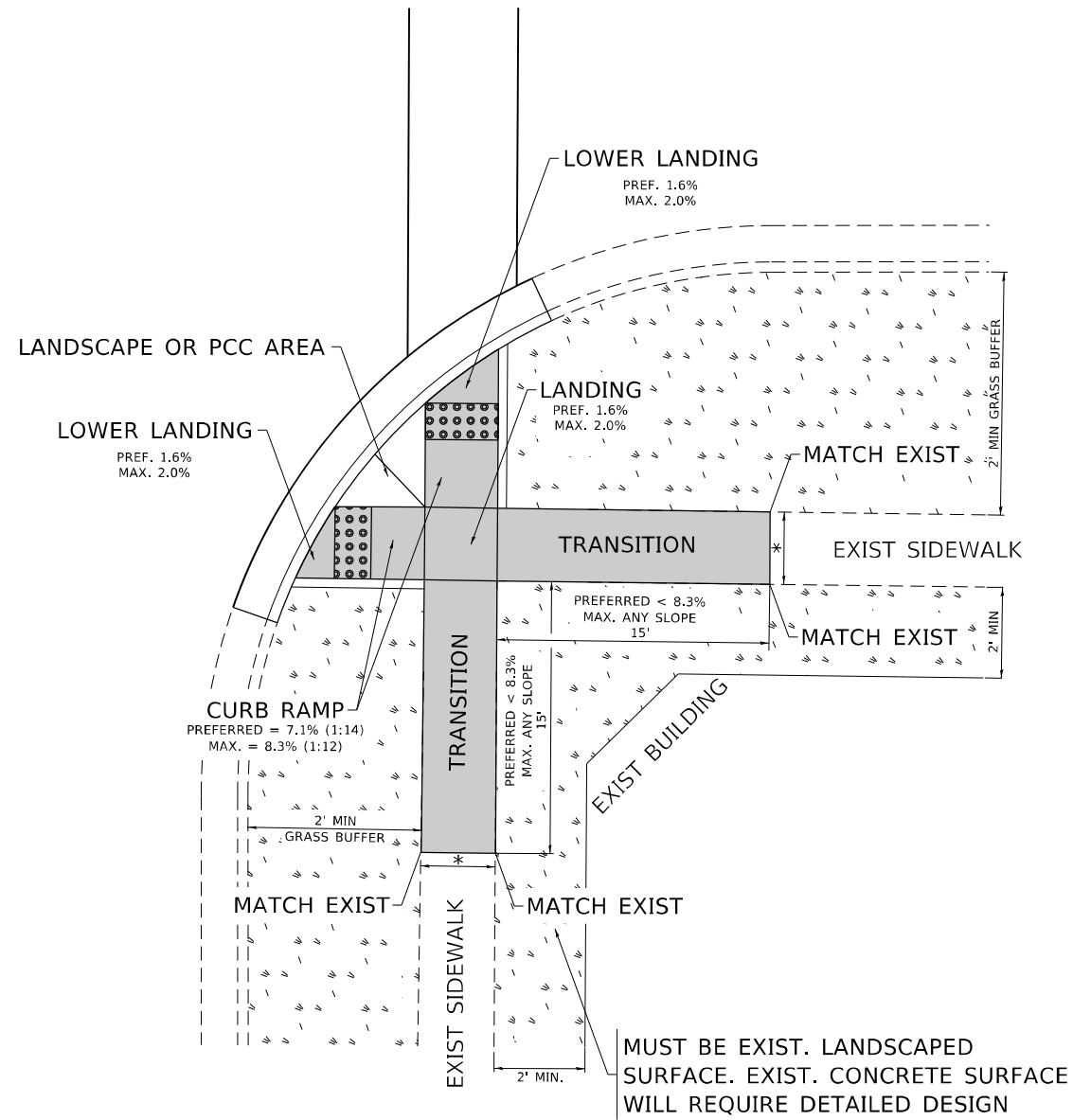
**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-02)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

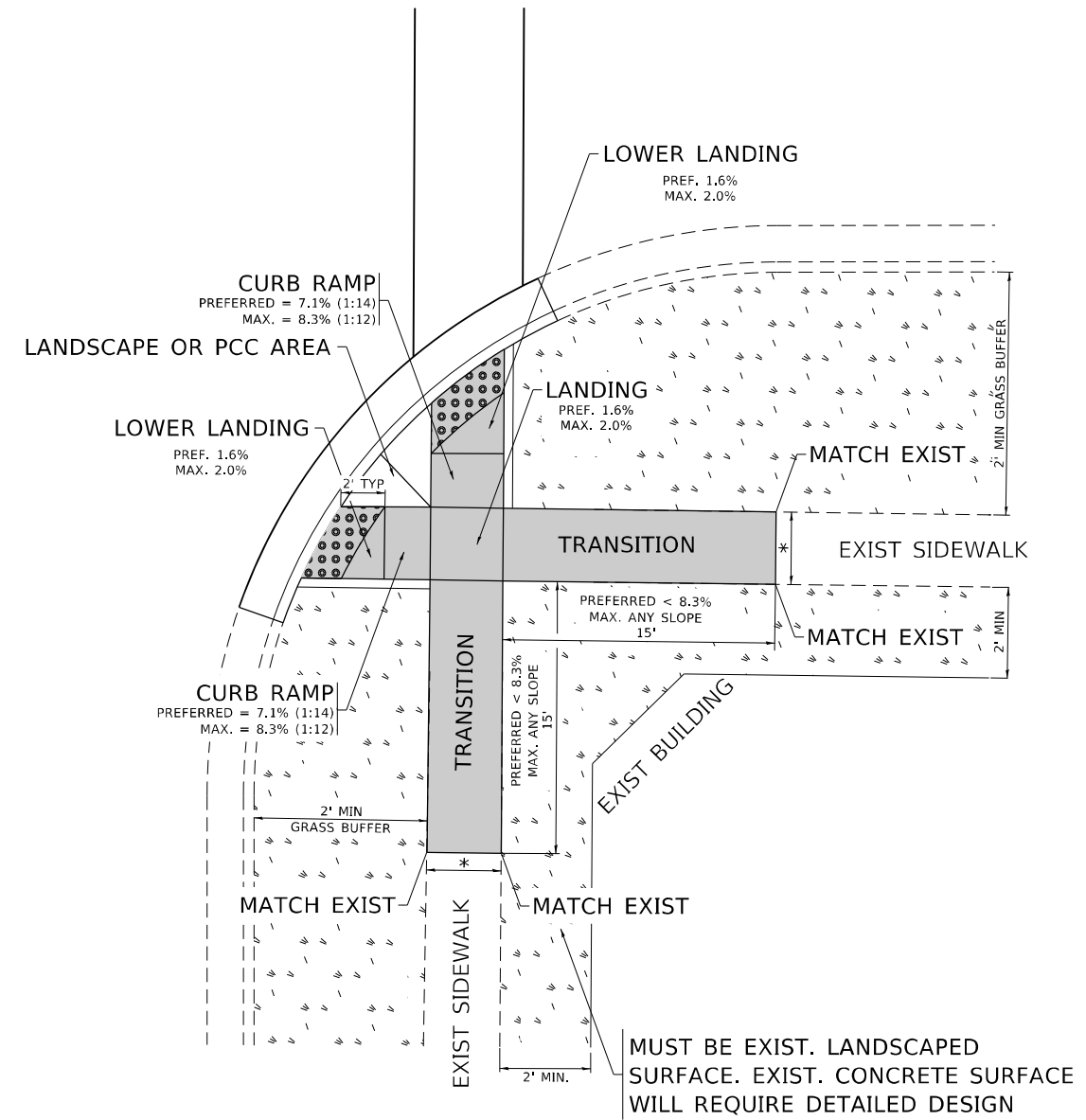
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	56
PD-02			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS

PD-03A



PD-03B



LEGEND

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

MODEL: Default
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USER NAME = gagliarobt	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 11/25/2019	DATE - 10/02/2019	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS
 (PD-03)

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
365	2021-040-RS	KANE	57	57
PD-03			CONTRACT NO. 62N62	
ILLINOIS FED. AID PROJECT				