03-10-2023 LETTING ITEM 156

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS *	SHEET NO.
3514	FAU 3514 21 RS	COOK	~~63~~	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 62R17		

* 63 + 15 = 78 TOTAL SHEETS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

D-91-123-22

LOCATION OF SECTION INDICATED THUS: – ■ –

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED WITHIN:
LOC 1: CITY OF DES PLAINES AND
THE VILLAGE OF MOUNT PROSPECT;
LOC 2: CITIES OF DES PLAINES AND PARK RIDGE
LOC 3: VILLAGE OF MOUNT PROSPECT

PROPOSED
HIGHWAY PLANS

F.A.U. 3514: ALGONQUIN ROAD
IL 83 (ELMHURST ROAD) TO WOLF ROAD (LOC 1)
I–294 (TRI–STATE TOLLWAY) TO SIBLEY STREET (LOC 2)
F.A.P. 344: IL 83 (MAIN STREET)
SOUTH OF US 14 (NW HWY) TO SOUTH OF EVERGREEN AVENUE (LOC 3)
STANDARD OVERLAY, NEW SHOULDERS, ADA IMPROVEMENTS
SECTION: FAU 3514 21 RS
PROJECT: STP–9N72(284)
COOK COUNTY
C–91–160–22

TRAFFIC DATA

LOC 1: ALGONQUIN RD
2019 ADT – 13,100 VPD
POSTED SPEED LIMIT – 35 MPH

LOC 2: ALGONQUIN RD
2018 ADT – 8,800 VPD
POSTED SPEED LIMIT – 40 MPH

LOC 3: IL 83 (MAIN ST)
2021 ADT – 11,900 VPD
POSTED SPEED LIMIT – 30 MPH

LOC 3: IL 83
US 14 TO EVERGREEN AVE

LOC 1: PROJECT BEGINS
STA. 17 + 55

R11E | R12E

T41N

ELK GROVE & MAINE TOWNSHIPS

N

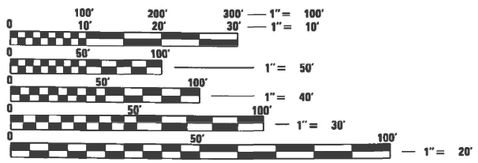
LOCATION MAP
(NOT TO SCALE)

LOC 2: PROJECT ENDS
STA. 50 + 66

LOC 2: PROJECT BEGINS
STA. 14 + 88

LOC 1: PROJECT ENDS
STA. 103 + 66

LOC 1: GROSS & NET LENGTH = 8,611 FT = 1.63 MI.
LOC 2: GROSS & NET LENGTH = 3,578 FT = 0.68 MI.
LOC 3: GROSS & NET LENGTH = 372 FT = 0.07 MI.



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

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

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

CONTRACT NO. 62R17

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED ~~DECEMBER~~ 15 20 22
Jose Ruiz (CM)
REGIONAL ENGINEER
February 3, 2023
ENGINEER OF DESIGN AND ENVIRONMENT
February 3, 2023
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REV-SEP

INDEX OF SHEETS

LIST OF STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05	MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06	DEPRESSED CORNER FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
482001-02	HMA SHOULDER ADJACENT TO FLEXIBALE PAVEMENT
482011-03	HMA SHLD, STRIPS/SHLD, WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
604001-05	FRAME AND LIDS, TYPE 1
604091-05	FRAME AND GRATES, TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER

LIST OF STATE STANDARDS - CONTINUED

STANDARD NO.	DESCRIPTION
701001-02	OFF-ROAD OPERATION 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-ROAD OPERATION 2L, 2W, 15' TO 2' FROM PAVEMENT EDGE
701011-04	OFF-ROAD OPERATIONS 2L, 2W DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN 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
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
814001-03	HANDHOLES
814006-03	DOUBLE HANDHOLES
857001-01	STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
873001-02	TRAFFIC SIGNAL GROUNDING & BONDING
878001-11	CONCRETE FOUNDATION DETAILS
880006-01	TRAFFIC SIGNAL MOUNTING DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS
886006-01	TYPICAL LAYOUT FOR DETECTOR LOOPS

GENERAL NOTES

1) BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

2) THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, FADI SULTAN AT FADI.SULTAN@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

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

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

6) THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

7) THIS PROJECT REQUIRES WORK LESS THAN 50' FROM THE RAILROAD CROSSING. THE CONTRACTOR IS REQUIRED TO SUBMIT AN ONLINE APPLICATION. THE CONTRACTOR MUST REFERENCE THIS LETTER NUMBER DURING CONTRUCTION (LETTER NUMBER: 0784351).

8) THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR1.

9) 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.

10) ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECT BY THE ENGINEER AT CONTRACTOR EXPENSE.

11) ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.

12) THE "GENERAL REQUIREMENTS FOR WEED CONTROL SPRAYING" SPECIAL PROVISION IS INCLUDED FOR INFORMATIONAL PURPOSES FOR THE RESIDENT ENGINEER. SELECTIVE CLEARING WILL BE UTILIZING AN HERBICIDE WHICH IS INCLUDED AND PAID AS PART OF THE PAY ITEM.

13) TREE REMOVAL ON THIS PROJECT SHOULD BE DONE OUTSIDE OF APRIL 1 - SEPTEMBER 30, IF POSSIBLE, TO AVOID BAT HABITAT DISTURBANCE.

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	PLOT DATE = 1/28/2023	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES
SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	2
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		QUALITY MANAGEMENT PROGRAM (QMP)
MIXTURE TYPE	**AIR VOIDS(%) @ Ndes**	
PAVEMENT RESURFACING		
HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"	4% @ 70 GYR.	QCP
POLY. HMA BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
HMA SHOULDERS		
HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"	4% @ 70 GYR.	QCP
POLY. HMA BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
HMA BASE COURSE WIDENING, 7 3/4" (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA
HMA WIDENING		
HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"	4% @ 70 GYR.	QCP
POLY. HMA BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
HMA BASE COURSE WIDENING, 7 3/4" (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19.0)	4% @ 70 GYR.	QC/QA
DRIVEWAY		
HMA BASE COURSE; P.E. = 6", C.E. = 8" (HMA BINDER IL-19.0)	4% @ 50 GYR.	QC/QA
HMA SURFACE COURSE, MIX "D", IL-9.5, N50; 2"	4% @ 50 GYR.	QC/QA
MEDIAN REPLACEMENT		
HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1 1/2"	4% @ 70 GYR.	QCP
POLY. HMA BINDER COURSE, IL-4.75, N50; 3/4"	3.5% @ 50 GYR.	QCP
HMA BASE COURSE WIDENING (HMA BINDER IL-19 MM); 9 1/2"	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.
NOTE 3: LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY HMA BINDER IL-4.75 N50

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	20	20					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30	30					
20101300	TREE PRUNING (1 TO 10 INCH DIAMETER)	EACH	6	6					
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	6	6					
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	75	70		5			
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	75	70		5			
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	75	70		5			
20200100	EARTH EXCAVATION	CU YD	2580	2569		6		5	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	572	402		95		75	
25200110	SODDING, SALT TOLERANT	SQ YD	1203	927		276			
25200200	SUPPLEMENTAL WATERING	UNIT	5	4		1			
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	50	50					
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	3820	3820					
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	4	4					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SQ YD	4	4					

SUMMARY OF QUANTITIES

CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
35600707	HOT-MIX ASPHALT BASE COURSE WIDENING, 7 3/4"	SQ YD	3106	3106					
35600714	HOT-MIX ASPHALT BASE COURSE WIDENING, 9 1/2"	SQ YD	315	315					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	48875	33729		12932		2214	
40600370	LONGITUDINAL JOINT SEALANT	FOOT	36184	25013		9321		1850	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	109	75		29		5	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	784	430		112		242	
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	238	188		35		15	
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	2989	2062		791		136	
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	1	1					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	6084	4198		1610		276	
42001300	PROTECTIVE COAT	SQ YD	852	671		136		45	

✳ SPECIALTY ITEM

NON PARTICIPATING ITEM

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	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	4
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

REV-SEP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY	SQ YD	15	15					
	PAVEMENT, 8 INCH								
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5	SQ FT	7768	6482		1096		190	
	INCH								
42400800	DETECTABLE WARNINGS	SQ FT	725	575		90		60	
44000100	PAVEMENT REMOVAL	SQ YD	2741	2741					
44000158	HOT-MIX ASPHALT SURFACE REMOVAL, 2	SQ YD	69054	46619		19156		3279	
	1/4"								
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	23	23					
44000600	SIDEWALK REMOVAL	SQ FT	7467	6181		1096		190	
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES,	SQ YD	247			247			
	3"								
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES,	SQ YD	1589	1339				250	
	4"								
44003100	MEDIAN REMOVAL	SQ FT	2846	2846					
44004250	PAVED SHOULDER REMOVAL	SQ YD	672	672					
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	1246	928		235		83	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	368	250		100		18	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	347	347					
44213200	SAW CUTS	FOOT	7379	7379					
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	230	230					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	2	2					
60255500	MANHOLES TO BE ADJUSTED	EACH	2	2					
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	1	1					
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	16	11		5			
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	3	1				2	
60404950	FRAMES AND GRATES, TYPE 24	EACH	2	2					
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	2	1				1	
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	6	5				1	
✳ 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	2577	2569		6		2	
✳ 66900530	SOIL DISPOSAL ANALYSIS	EACH	6	4		1		1	
✳ 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	L SUM	1	0.5		0.25		0.25	
	PLAN								
✳ 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION	L SUM	1	0.5		0.25		0.25	
	REPORT								

✳ SPECIALTY ITEM

NON PARTICIPATING ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	5
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

REV-SEP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
✳ 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	25	15		5		5	
67100100	MOBILIZATION	L SUM	1	0.5		0.25		0.25	
70102620	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701501								
70102622	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701502								
70102625	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701606								
70102630	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701601								
70102632	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701602								
70102635	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701701								
70102640	TRAFFIC CONTROL AND PROTECTION,	L SUM	1	0.5		0.25		0.25	
	STANDARD 701801								
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	25	20		5			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	11491	6576		4065		850	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	11491	6576		4065		850	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1353	706		219		428	
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	48662	32998		13746		1918	
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	4864	2653		1761		450	
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	150					150	
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	1761	1235		476		50	
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	931	519		167		245	
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	3549	2029		1270		250	
✳ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1353	706		219		428	
✳ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	48662	32998		13746		1918	
✳ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4864	2653		1761		450	

✳ SPECIALTY ITEM

NON PARTICIPATING ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	6
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

REV-SEP

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	150					150	
		8"								
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	1791	1235		476		80	
		12"								
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	931	519		167		245	
		24"								
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	653	409		224		20	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	407	246		135		26	
		REMOVAL								
*	81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL,	FOOT	146	130				16	
		2" DIA.								
*	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL	EACH	4	3				1	
		INSTALLATION								
*	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	2690	1985				705	
		14 2C								
*	87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO.	FOOT	1575	1575					
		14 3C								
*	87900200	DRILL EXISTING HANDHOLE	EACH	11	8				3	
*	88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE,	EACH	24	8				16	
		BRACKET MOUNTED WITH COUNTDOWN TIMER								

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	2895	1714		580		601	
	89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	93	93					
*	89502375	REMOVE EXISTING TRAFFIC SIGNAL	EACH	4	3				1	
		EQUIPMENT								
*	89502376	REBUILD EXISTING HANDHOLE	EACH	7	7					
	X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
	X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	887					887	
	X0540000	BRICK PAVER	SQ FT	100					100	
	X1400378	PEDESTRIAN SIGNAL POST, 5 FT.	EACH	24	8				16	
	X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	0.25	0.25					
	X2020110	GRADING AND SHAPING SHOULDERS	UNIT	64	64					
	X4400501	COMBINATION CURB AND GUTTER REMOVAL AND	FOOT	760	560		100		100	
		REPLACEMENT LESS THAN OR EQUAL TO 10								
		FEET								
	X4400503	COMBINATION CONCRETE CURB AND GUTTER	FOOT	1252	550		480		222	
		REMOVAL AND REPLACEMENT GREATER THAN 10								
		FEET								
#	X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1000		700		300		
	X6030310	FRAMES AND LIDS TO BE ADJUSTED	EACH	60	33		23		4	
		(SPECIAL)								
	X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	6		3		3	

* SPECIALTY ITEM

NON PARTICIPATING ITEM

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	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	7
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

REV-SEP

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		LOC 1 0005 ROADWAY 80% FED /20% STATE	LOC 1 0005 ROADWAY 100% STATE	LOC 2 0005 ROADWAY 80% FED /20% STATE	LOC 2 0005 ROADWAY 100% STATE	LOC 3 0005 ROADWAY 80% FED /20% STATE	LOC 3 0005 ROADWAY 100% STATE
✳	X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	37	22				15	
✳	X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH	FOOT	48	36				12	
		DIAMETER								
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	0.5		0.25		0.25	
	Z0018300	DRAINAGE STRUCTURE REPAIR	EACH	1	1					
#	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	106		35		66		5
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	462.6	205.6		51.4		205.6	
✳	Z0033044	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL	EACH	4	3				1	
		1								
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	0.5				0.5	
	Z0064800	SELECTIVE CLEARING	UNIT	2	2					
Ø	Z0076600	TRAINEES	HOURS	500	500					
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500					

	SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					
	CODE NO	ITEM	UNIT		0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE	0005 ROADWAY 80% FED /20% STATE	0005 ROADWAY 100% STATE

✳ SPECIALTY ITEM

NON PARTICIPATING ITEM

Ø 0042

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. & IL 83
SUMMARY OF QUANTITIES

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	8

CONTRACT NO. 62R17

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

REV-SEP

20100110 - TREE REMOVAL (6 TO 15 UNITS DIAMETER)	
STATION	QUANTITY
67+90 RT	20
TOTAL (UNIT)	**20**

20100210 - TREE REMOVAL (OVER 15 DIAMETER)	
STATION	QUANTITY
38+05 RT	30
TOTAL (UNIT)	**30**

20101300 - TREE PRUNING (1 TO 10 INCH DIAMETER)	
STATION	QUANTITY
40+00 TO 42+00 LT	3
45+00 LT	1
48+00 LT	1
84+90 RT	1
TOTAL (EACH)	**6**

20101350 - TREE PRUNING (OVER 10 INCH DIAMETER)	
STATION	QUANTITY
28+05 RT	6
TOTAL (EACH)	**6**

Z0064800 - SLECTIVE CLEARING	
STATION	QUANTITY
67+90 TO 69+60 RT	1
90+10 TO 90+90 RT	1
TOTAL (UNIT)	**2**

CONTACT THE IDOT ROADSITE DEVELOPMENT UNIT AT 847-705-4171 AT LEAST 2 WEEKS PRIOR TO BEGINNING LANDSCAPE AND FORESTRY WORK FOR LAYOUT.

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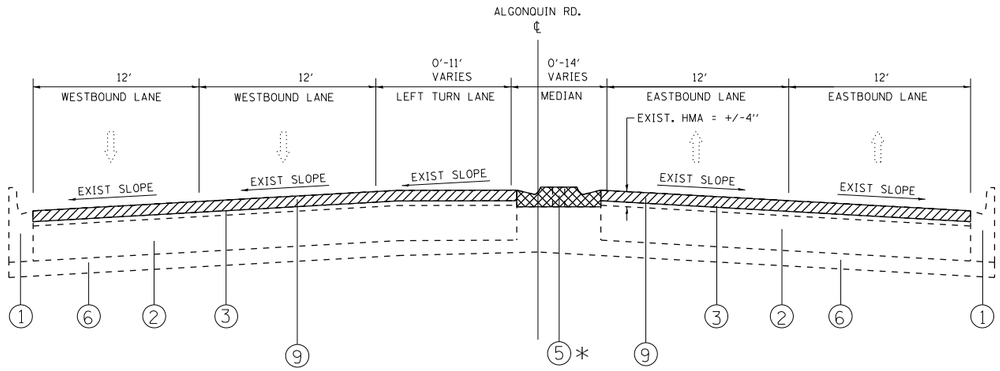
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. (IL 83 TO WOLF RD.)
TREE REMOVAL SCHEDULE

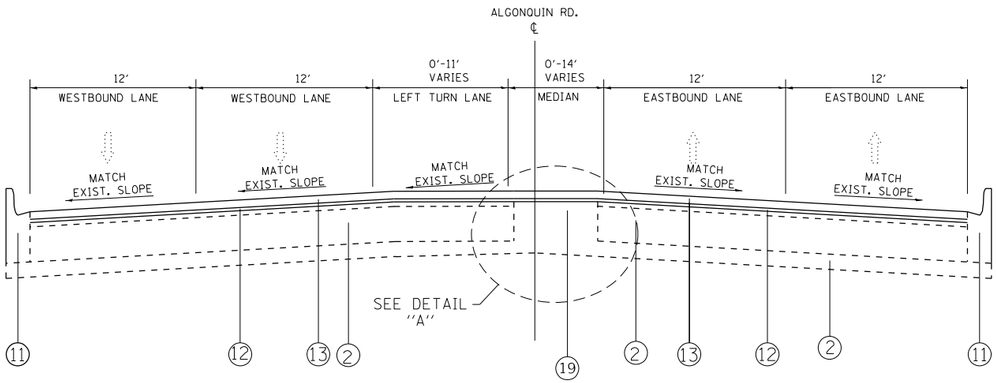
SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	9
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



* EXISTING CORRUGATED MEDIAN TO BE REMOVED AND REPLACED (STA. 18+38 TO STA. 21+74)

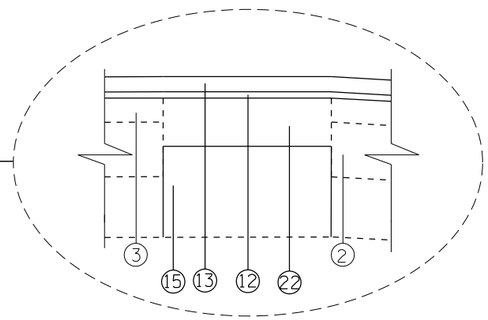
EXISTING TYPICAL SECTION
ALGONQUIN RD.
STA. 17+55 TO STA. 21+81
STA. 101+47 TO STA. 103+66



PROPOSED TYPICAL SECTION
ALGONQUIN RD.
STA. 17+55 TO STA. 21+81
STA. 101+47 TO STA. 103+66

DETAIL "A":

PROPOSED MEDIAN REPLACEMENT
STA. 18+38 TO STA. 21+74



NOTE

THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
7. EXISTING AGGREGATE SHOULDER
8. EXISTING HMA SHOULDER
9. PROPOSED HMA SURFACE REMOVAL, 2½"
10. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)
12. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
13. PROPOSED HMA SURFACE COURSE, IL-9.5 MIX D, N70, 1½"
14. PROPOSED HMA BASE COURSE WIDENING, 7 3/4")
15. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
16. PROPOSED SAWCUT
17. PROPOSED GRADING AND SHAPING SHOULDERS
18. PROPOSED AGGREGATE BASE COURSE TYPE B, 4"
19. PROPOSED PAINTED MEDIAN (SEE DISTRICT DETAIL TC-13 FOR SPACING)
20. PROPOSED PAVEMENT REMOVAL
21. PROPOSED PAVED SHOULDER REMOVAL
22. HMA BASE COURSE WIDENING, 9 1/2"

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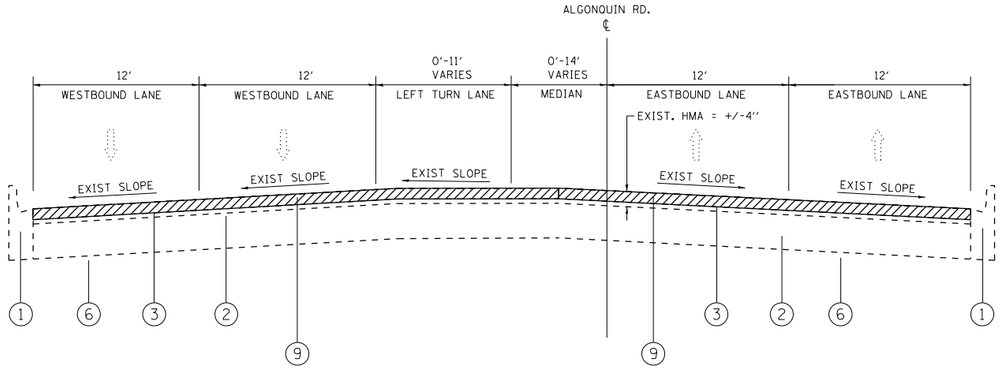
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

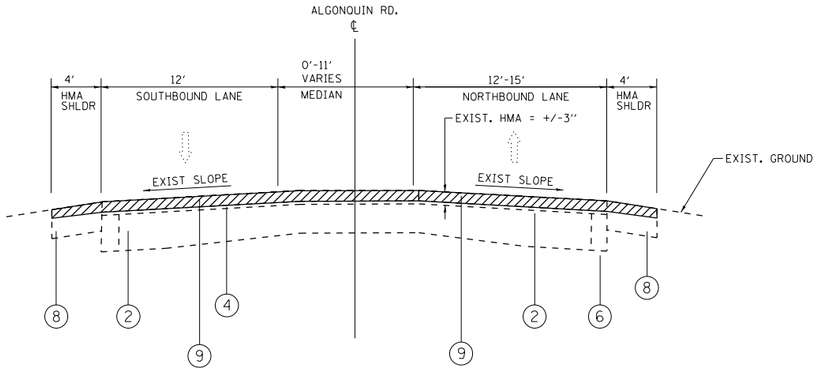
ALGONQUIN RD. (IL 83 TO WOLF RD.)
TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	10
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
ALGONQUIN RD.
STA. 65+61 TO STA. 77+32
STA. 95+02 TO STA. 101+47



EXISTING TYPICAL SECTION
ALGONQUIN RD.

EASTBOUND
STA. 26+82 TO STA. 29+67
STA. 58+75 TO STA. 65+61

WESTBOUND
STA. 26+81 TO STA. 56+93
STA. 57+93 TO STA. 63+97
STA. 65+61 TO STA. 77+32
STA. 77+36 TO STA. 82+36
STA. 89+63 TO STA 90+46

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
7. EXISTING AGGREGATE SHOULDER
8. EXISTING HMA SHOULDER
9. PROPOSED HMA SURFACE REMOVAL, 2¼"
10. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)
12. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
13. PROPOSED HMA SURFACE COURSE, IL-9.5 MIX D, N70, 1½"
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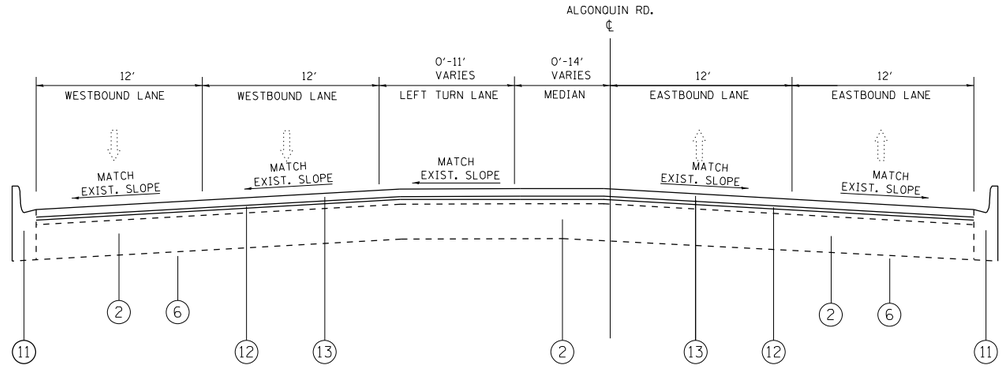
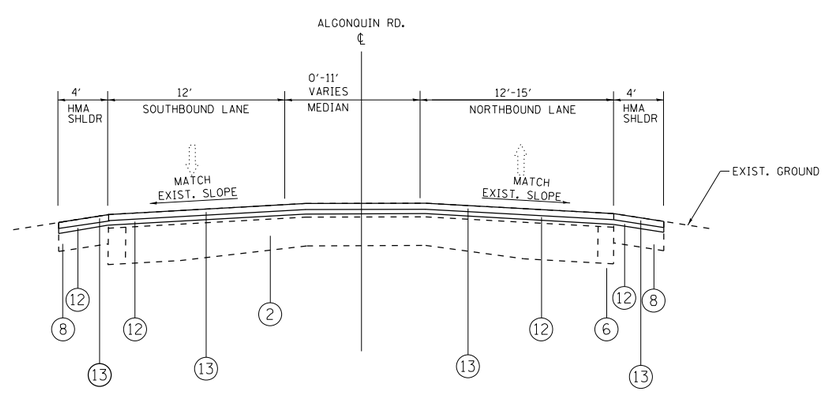
22. HMA BASE COURSE WIDENING, 9 1/2"



PROPOSED TYPICAL SECTION
ALGONQUIN RD.
STA. 65+61 TO STA. 77+32
STA. 95+02 TO STA. 101+47



PROPOSED TYPICAL SECTION
ALGONQUIN RD.

EASTBOUND
STA. 26+82 TO STA. 29+67
STA. 58+75 TO STA. 77+32

WESTBOUND
STA. 26+81 TO STA. 56+93
STA. 57+93 TO STA. 63+97
STA. 65+61 TO STA. 77+32
STA. 77+36 TO STA. 82+36
STA. 89+63 TO STA. 90+46

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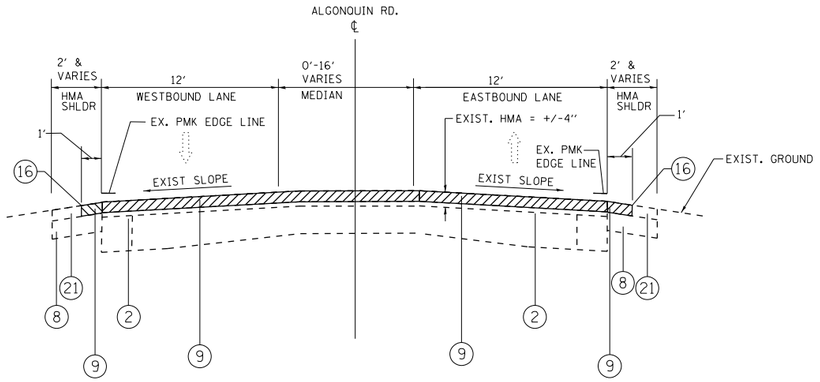
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. (IL 83 TO WOLF RD.)
TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

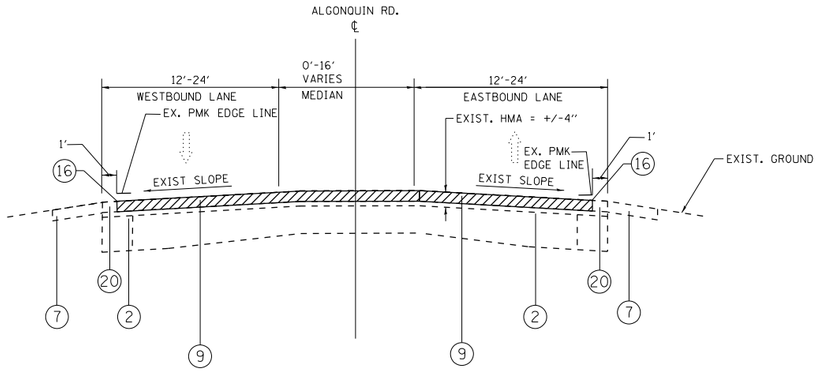
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	11
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
ALGONQUIN RD.

EASTBOUND
STA. 29+67 TO STA 58+75
STA. 77+32 TO STA. 86+12
STA. 89+75 TO STA. 95+02

WESTBOUND
STA. 23+76 TO STA. 24+64
STA. 56+93 TO STA. 57+93
STA. 63+97 TO STA. 65+61
STA. 77+32 TO STA. 77+36
STA. 82+36 TO STA. 88+03



EXISTING TYPICAL SECTION
ALGONQUIN RD.

WESTBOUND
STA. 24+64 TO STA. 26+81
STA. 88+03 TO STA. 89+63

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
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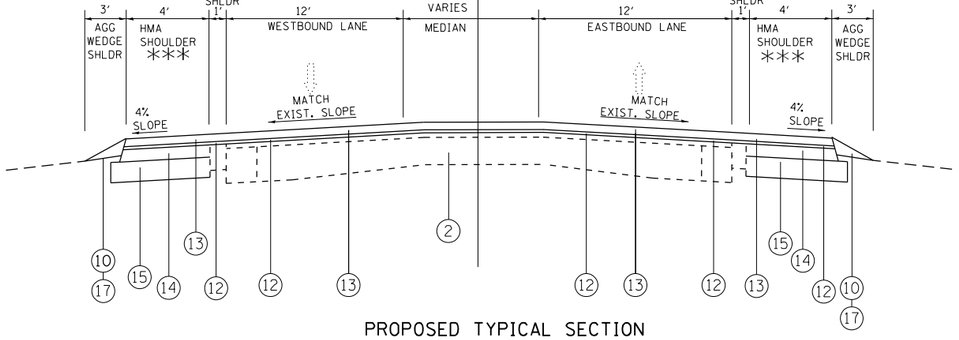


PROPOSED TYPICAL SECTION
ALGONQUIN RD.

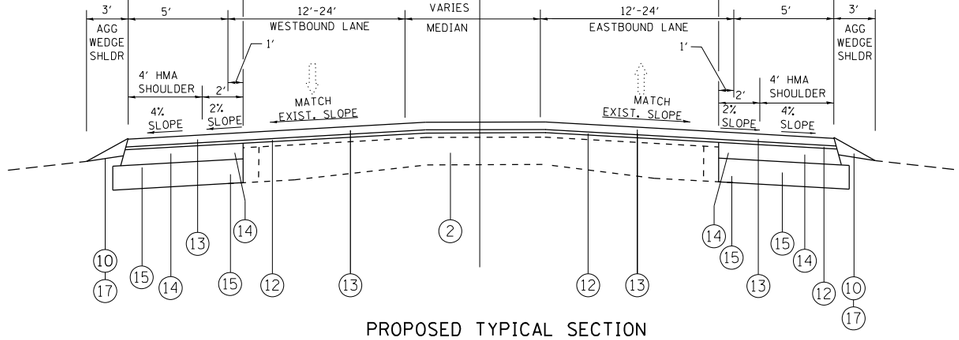
EASTBOUND
STA. 29+67 TO STA 58+75
STA. 77+32 TO STA. 86+12
STA. 89+75 TO STA. 95+02

WESTBOUND
STA. 23+76 TO STA. 24+64
STA. 56+93 TO STA. 57+93
STA. 63+97 TO STA. 65+61
STA. 77+32 TO STA. 77+36
STA. 82+36 TO STA. 88+03

*** PROPOSED HMA SHOULDER

EASTBOUND
STA 30+57 TO STA 32+04
STA 32+94 TO STA 36+22
STA 36+98 TO STA 40+70
STA 41+83 TO STA 43+05
STA 43+89 TO STA 45+93
STA 46+59 TO STA 54+75
STA 55+75 TO STA 56+97
STA 57+23 TO STA 57+89
STA 79+15 TO STA 85+36
STA 90+11 TO STA 94+91

WESTBOUND
STA 56+93 TO STA 57+93
STA 82+36 TO STA 87+37



PROPOSED TYPICAL SECTION
ALGONQUIN RD.

WESTBOUND
STA. 24+64 TO STA. 26+81
STA. 88+03 TO STA. 89+63

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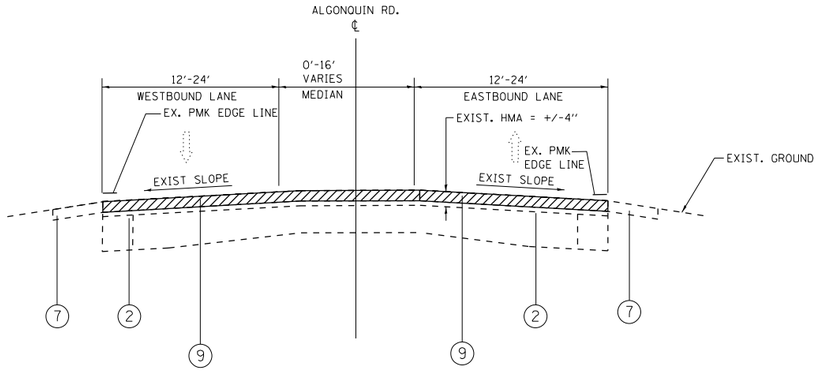
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ALGONQUIN RD. (IL 83 TO WOLF RD.)
TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

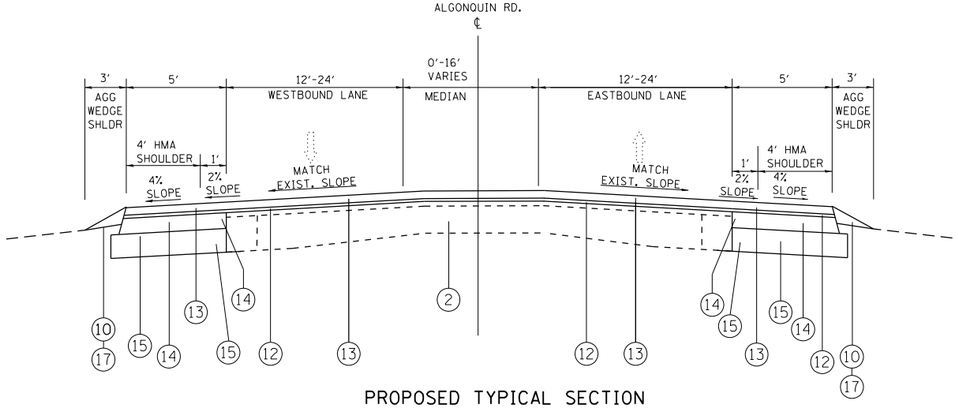
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	12
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
ALGONQUIN RD.

EASTBOUND
STA. 21+81 TO STA. 26+82
STA. 86+12 TO STA 89+75

WESTBOUND
STA. 21+81 TO STA. 23+76
STA. 90+46 TO STA. 95+02



PROPOSED TYPICAL SECTION
ALGONQUIN RD.

EASTBOUND
STA. 21+81 TO STA. 26+82
STA. 86+12 TO STA 89+75

WESTBOUND
STA. 21+81 TO STA. 23+76
STA. 90+46 TO STA. 95+02

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
7. EXISTING AGGREGATE SHOULDER
8. EXISTING HMA SHOULDER
9. PROPOSED HMA SURFACE REMOVAL, 2¼"
10. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)
12. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
13. PROPOSED HMA SURFACE COURSE, IL-9.5 MIX D, N70, 1½"
14. PROPOSED HMA BASE COURSE WIDENING, 7 3/4"
15. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
16. PROPOSED SAWCUT
17. PROPOSED GRADING AND SHAPING SHOULDERS
18. PROPOSED AGGREGATE BASE COURSE TYPE B, 4"
19. PROPOSED PAINTED MEDIAN (SEE DISTRICT DETAIL TC-13 FOR SPACING)
20. PROPOSED PAVEMENT REMOVAL
21. PROPOSED PAVED SHOULDER REMOVAL
22. HMA BASE COURSE WIDENING, 9 1/2"

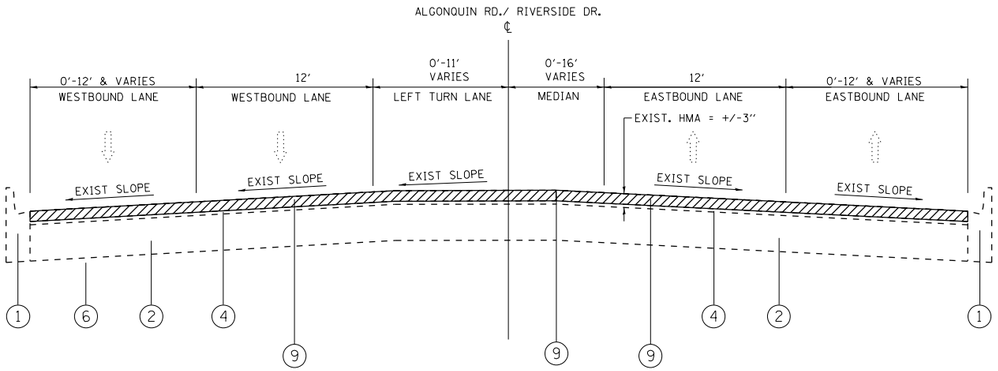
FILE NAME = p:\\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D112322\CAD\Design\D112322-sht-plan 1.dgn	USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
		DRAWN	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

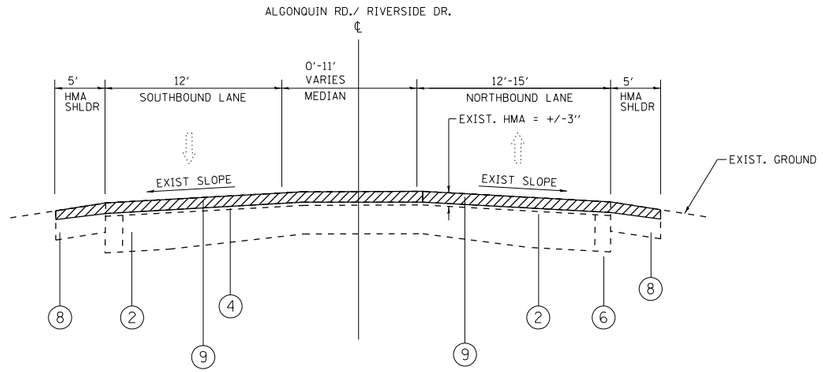
ALGONQUIN RD. (IL 83 TO WOLF RD.)
TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	13
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



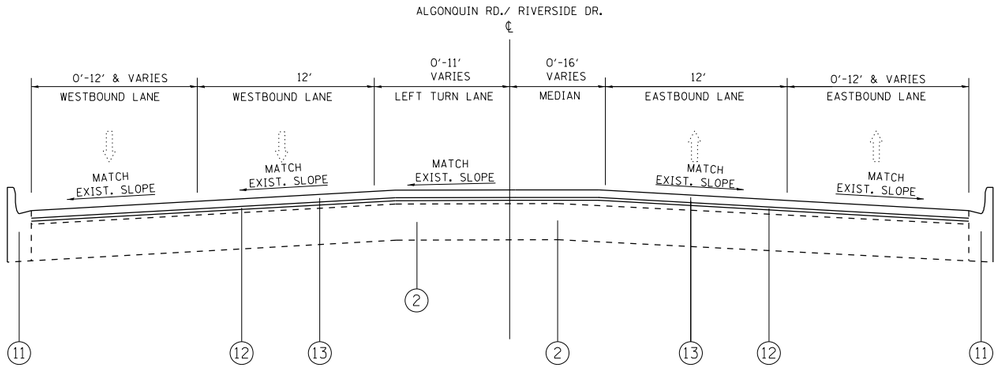
EXISTING TYPICAL SECTION
ALGONQUIN RD./ RIVERSIDE DR.
STA. 14+88 TO STA. 46+85



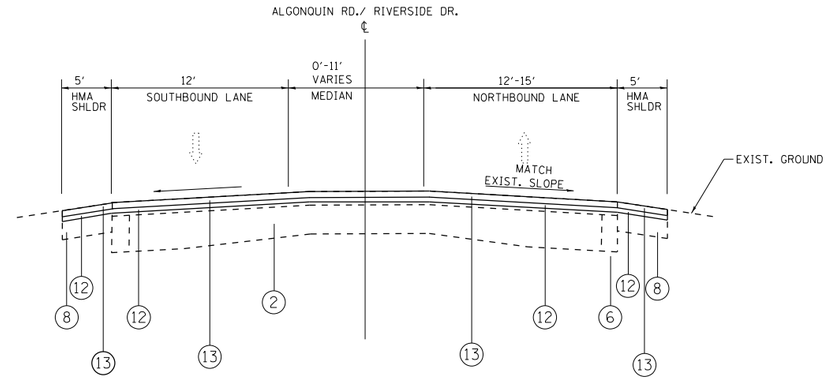
EXISTING TYPICAL SECTION
ALGONQUIN RD.
STA. 46+85 TO STA. 50+66

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
7. EXISTING AGGREGATE SHOULDER
8. EXISTING HMA SHOULDER
9. PROPOSED HMA SURFACE REMOVAL, 2¼"
10. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)
12. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
13. PROPOSED HMA SURFACE COURSE, IL-9.5 MIX D, N70, 1½"
14. PROPOSED HMA BASE COURSE WIDENING, 7 3/4"
15. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
16. PROPOSED SAWCUT
17. PROPOSED GRADING AND SHAPING SHOULDERS
18. PROPOSED AGGREGATE BASE COURSE TYPE B, 4"
19. PROPOSED PAINTED MEDIAN (SEE DISTRICT DETAIL TC-13 FOR SPACING)
20. PROPOSED PAVEMENT REMOVAL
21. PROPOSED PAVED SHOULDER REMOVAL
22. HMA BASE COURSE WIDENING, 9 1/2"



PROPOSED TYPICAL SECTION
ALGONQUIN RD./ RIVERSIDE DR.
STA. 14+88 TO STA. 46+85



PROPOSED TYPICAL SECTION
ALGONQUIN RD./ RIVERSIDE DR.
STA. 46+85 TO STA. 50+66

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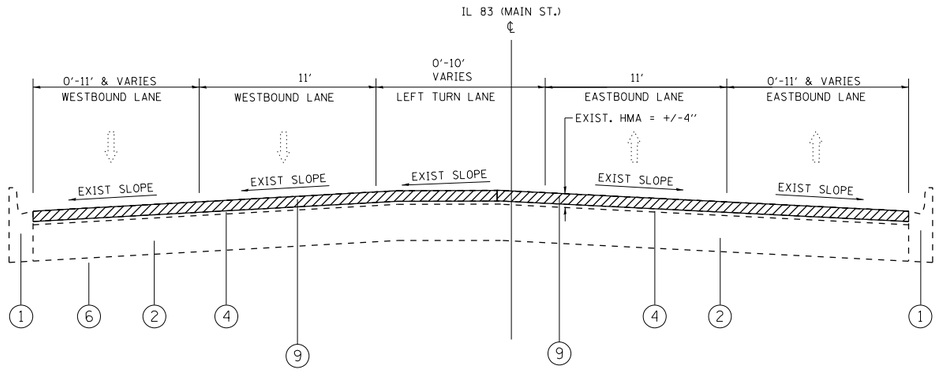
		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

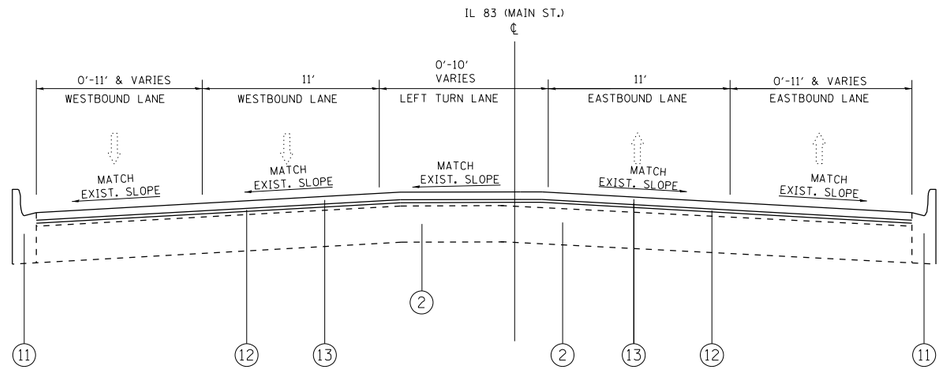
ALGONQUIN RD. (I-294 TO SIBLEY ST.)
TYPICAL SECTIONS

SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	14
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		



EXISTING TYPICAL SECTION
IL 83 (MAIN ST.)



PROPOSED TYPICAL SECTION
IL 83 (MAIN ST.)

LEGEND

1. EXISTING COMBINATION CONCRETE CURB AND GUTTER
2. EXISTING P.C. CONCRETE PAVEMENT | 9"
3. EXISTING HMA SURFACE COURSE | 4" (BEFORE MILLING)
4. EXISTING HMA SURFACE COURSE | 3" (BEFORE MILLING)
5. EXISTING MEDIAN
6. EXISTING SUB-BASE | 4"
7. EXISTING AGGREGATE SHOULDER
8. EXISTING HMA SHOULDER
9. PROPOSED HMA SURFACE REMOVAL, 2¼"
10. PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
11. PROPOSED COMBINATION CONCRETE CURB AND GUTTER (WHERE NECESSARY)
12. PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
13. PROPOSED HMA SURFACE COURSE, IL-9.5 MIX D, N70, 1½"
14. PROPOSED HMA BASE COURSE WIDENING, 7 3/4"
15. PROPOSED AGGREGATE SUBGRADE IMPROVEMENT, 12"
16. PROPOSED SAWCUT
17. PROPOSED GRADING AND SHAPING SHOULDERS
18. PROPOSED AGGREGATE BASE COURSE TYPE B, 4"
19. PROPOSED PAINTED MEDIAN (SEE DISTRICT DETAIL TC-13 FOR SPACING)
20. PROPOSED PAVEMENT REMOVAL
21. PROPOSED PAVED SHOULDER REMOVAL
22. HMA BASE COURSE WIDENING, 9 1/2"

FILE NAME =	USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
pw:\\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D112322\CADD\Design\D112322-sht-plan 1.dgn		DRAWN -	REVISED -
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 83 (MAIN ST.) AT PROSPECT AVE.
TYPICAL SECTIONS

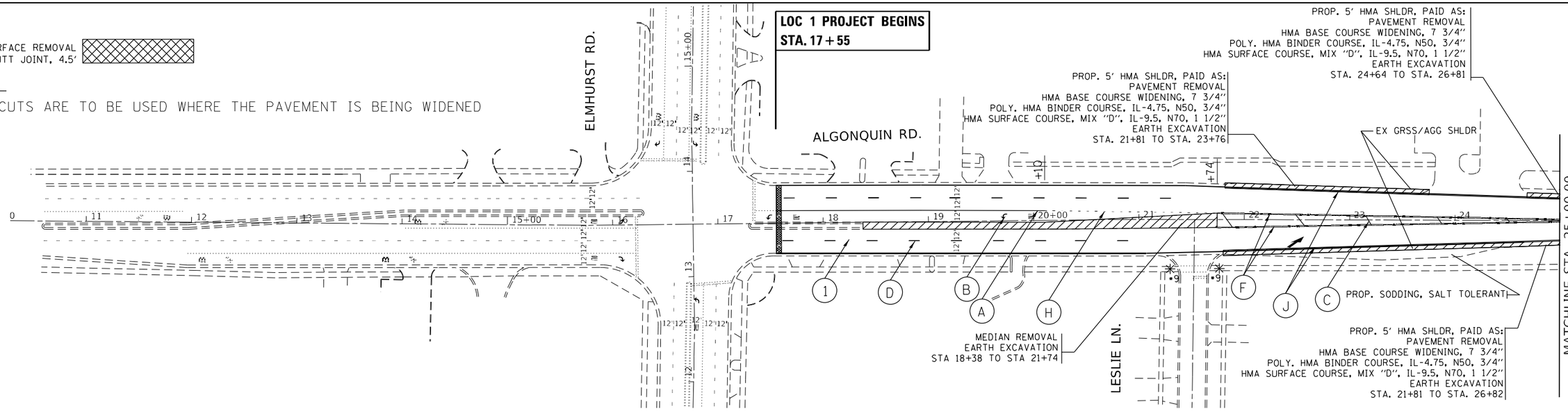
SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	15
		CONTRACT NO. 62R17		
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT		

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED



(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

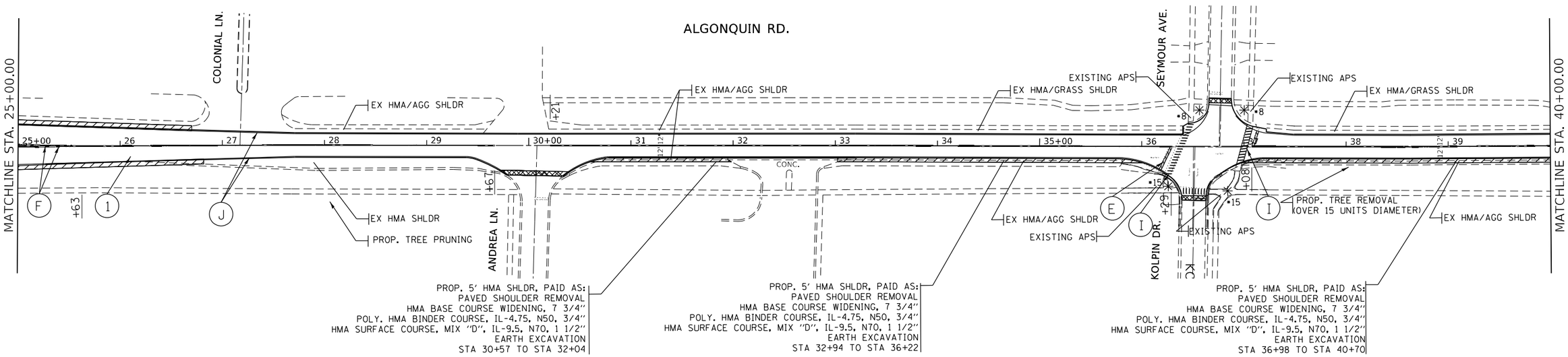
NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP IMPROVEMENT

USE PROJECT DETAIL PD-01A	*1
USE PROJECT DETAIL PD-01B	*2
USE PROJECT DETAIL PD-01C	*3
USE PROJECT DETAIL PD-02A	*4
USE PROJECT DETAIL PD-02B	*5
USE PROJECT DETAIL PD-02C	*6
USE PROJECT DETAIL PD-03A	*7
USE PROJECT DETAIL PD-03B	*8
USE PROJECT DETAIL PD-04A	*9
USE PROJECT DETAIL PD-04B	*10
USE PROJECT DETAIL PD-05A	*11
USE PROJECT DETAIL PD-05B	*12
USE PROJECT DETAIL PD-06A	*13
USE PROJECT DETAIL PD-06B	*14
USE PEDESTRIAN RAMP DETAILS (SEE SHEETS 32-44)	*15

* = ADA RAMPS



NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/19/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (IL. ROUTE 83 TO WOLF RD.)

SCALE: 1"=50' | SHEET 1 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	16
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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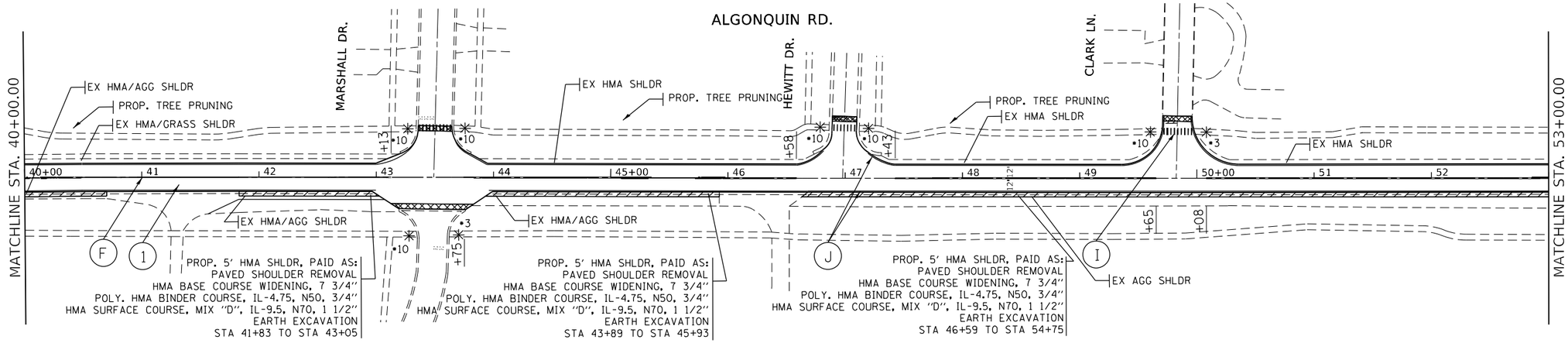
HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED



(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

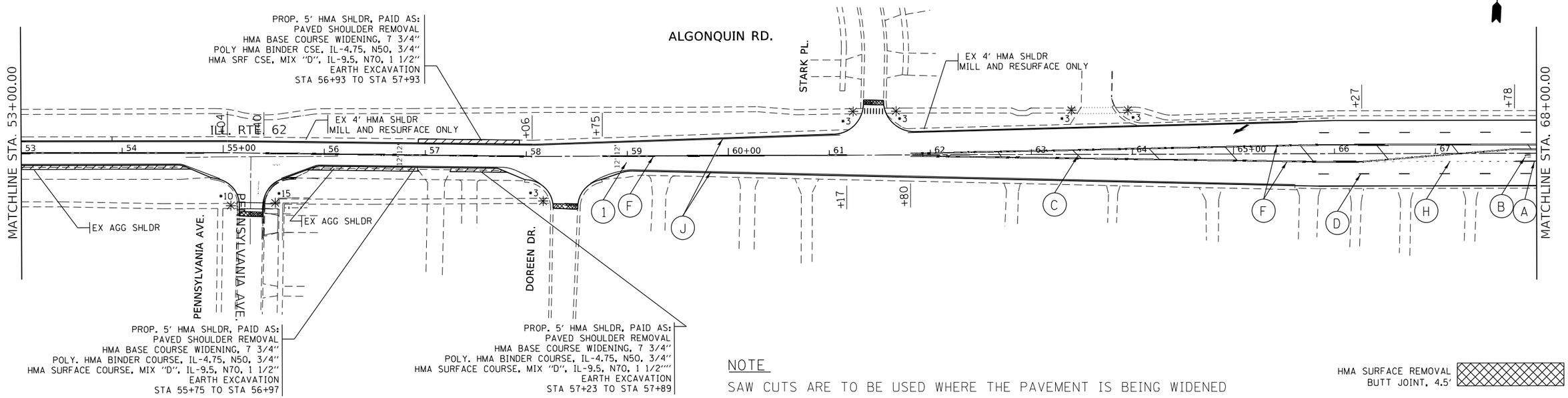
(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

PROPOSED CURB RAMP IMPROVEMENT
USE PROJECT DETAIL PD-01A •1
USE PROJECT DETAIL PD-01B •2
USE PROJECT DETAIL PD-01C •3
USE PROJECT DETAIL PD-02A •4
USE PROJECT DETAIL PD-02B •5
USE PROJECT DETAIL PD-02C •6
USE PROJECT DETAIL PD-03A •7
USE PROJECT DETAIL PD-03B •8
USE PROJECT DETAIL PD-04A •9
USE PROJECT DETAIL PD-04B •10
USE PROJECT DETAIL PD-05A •11
USE PROJECT DETAIL PD-05B •12
USE PROJECT DETAIL PD-06A •13
USE PROJECT DETAIL PD-06B •14
USE PEDESTRIAN RAMP DETAILS (SEE SHEETS 32-44) •15

✳ = ADA RAMPS

N



NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/19/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (IL. ROUTE 83 TO WOLF RD.)

SCALE: 1"=50' | SHEET 2 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	17
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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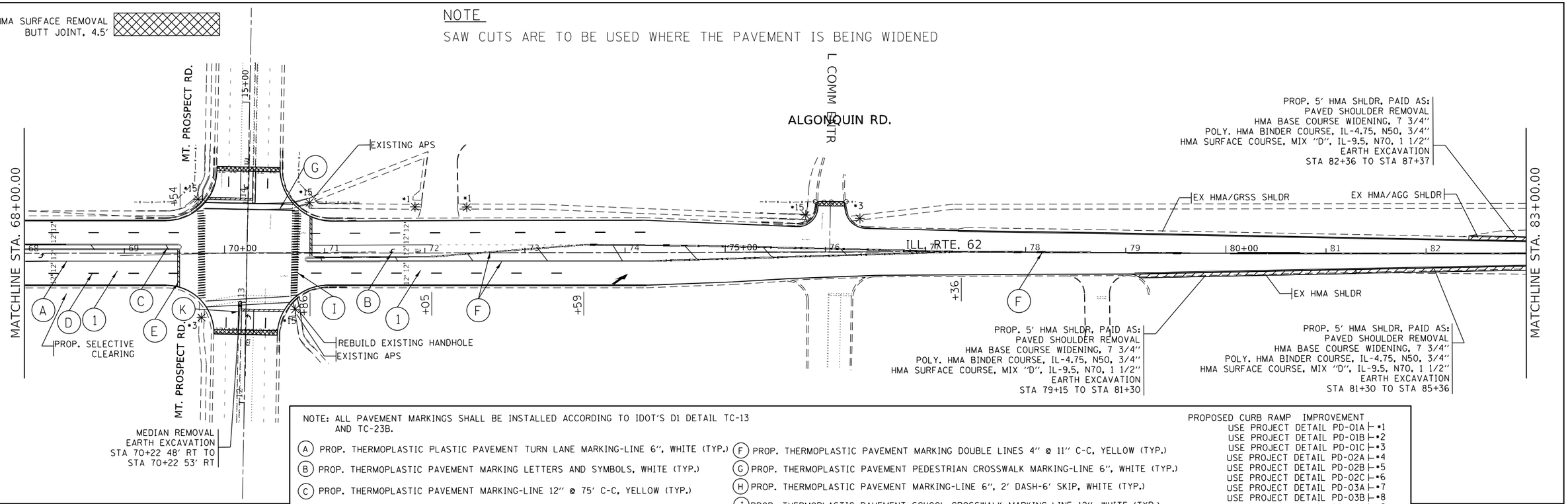
HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED



NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

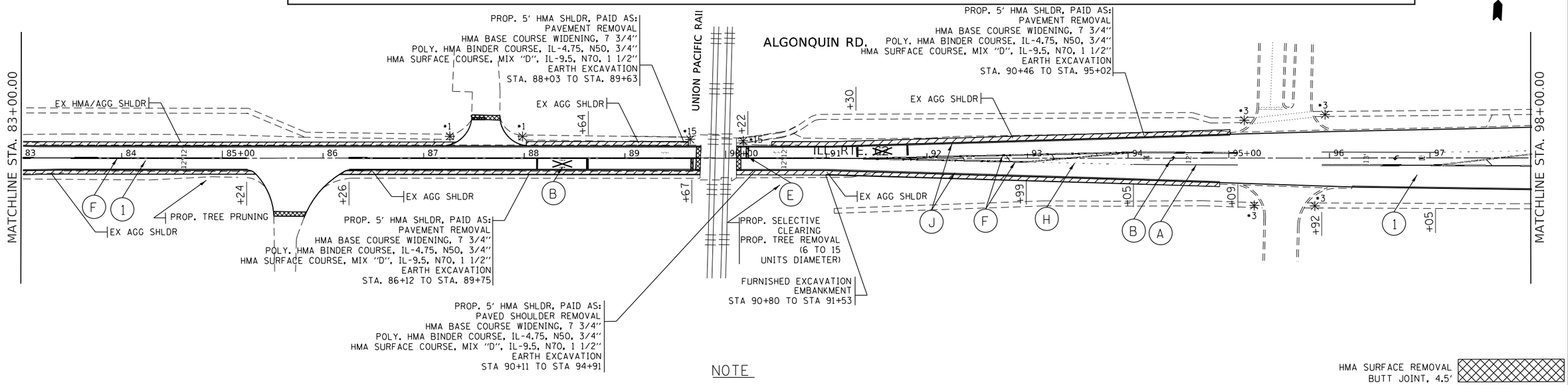
(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP IMPROVEMENT
USE PROJECT DETAIL PD-01A •1
USE PROJECT DETAIL PD-01B •2
USE PROJECT DETAIL PD-01C •3
USE PROJECT DETAIL PD-02A •4
USE PROJECT DETAIL PD-02B •5
USE PROJECT DETAIL PD-02C •6
USE PROJECT DETAIL PD-03A •7
USE PROJECT DETAIL PD-03B •8
USE PROJECT DETAIL PD-04A •9
USE PROJECT DETAIL PD-04B •10
USE PROJECT DETAIL PD-05A •11
USE PROJECT DETAIL PD-05B •12
USE PROJECT DETAIL PD-06A •13
USE PROJECT DETAIL PD-06B •14
USE PEDESTRIAN RAMP DETAILS •15
(SEE SHEETS 32-44)

✳ = ADA RAMPS

N



NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

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USER NAME = yaseen.qureshi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/19/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

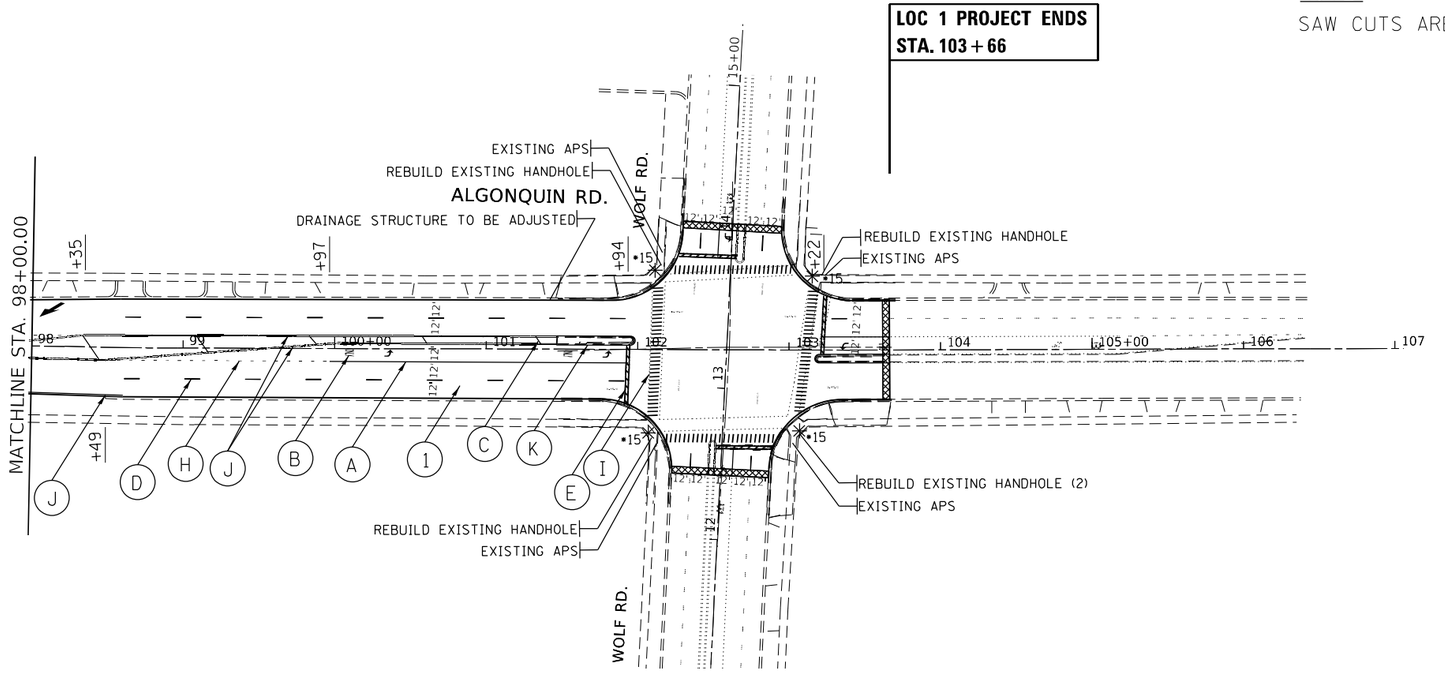
ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (IL. ROUTE 83 TO WOLF RD.)

SCALE: 1"=50' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	18
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

NOTE

SAW CUTS ARE TO BE USED WHERE THE PAVEMENT IS BEING WIDENED



HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP IMPROVEMENT
USE PROJECT DETAIL PD-01A ├ •1
USE PROJECT DETAIL PD-01B ├ •2
USE PROJECT DETAIL PD-01C ├ •3
USE PROJECT DETAIL PD-02A ├ •4
USE PROJECT DETAIL PD-02B ├ •5
USE PROJECT DETAIL PD-02C ├ •6
USE PROJECT DETAIL PD-03A ├ •7
USE PROJECT DETAIL PD-03B ├ •8
USE PROJECT DETAIL PD-04A ├ •9
USE PROJECT DETAIL PD-04B ├ •10
USE PROJECT DETAIL PD-05A ├ •11
USE PROJECT DETAIL PD-05B ├ •12
USE PROJECT DETAIL PD-06A ├ •13
USE PROJECT DETAIL PD-06B ├ •14
USE PEDESTRIAN RAMP DETAILS ├ •15
(SEE SHEETS 32-44)

✳ = ADA RAMPS

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	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/19/2023	DATE -	REVISED -	

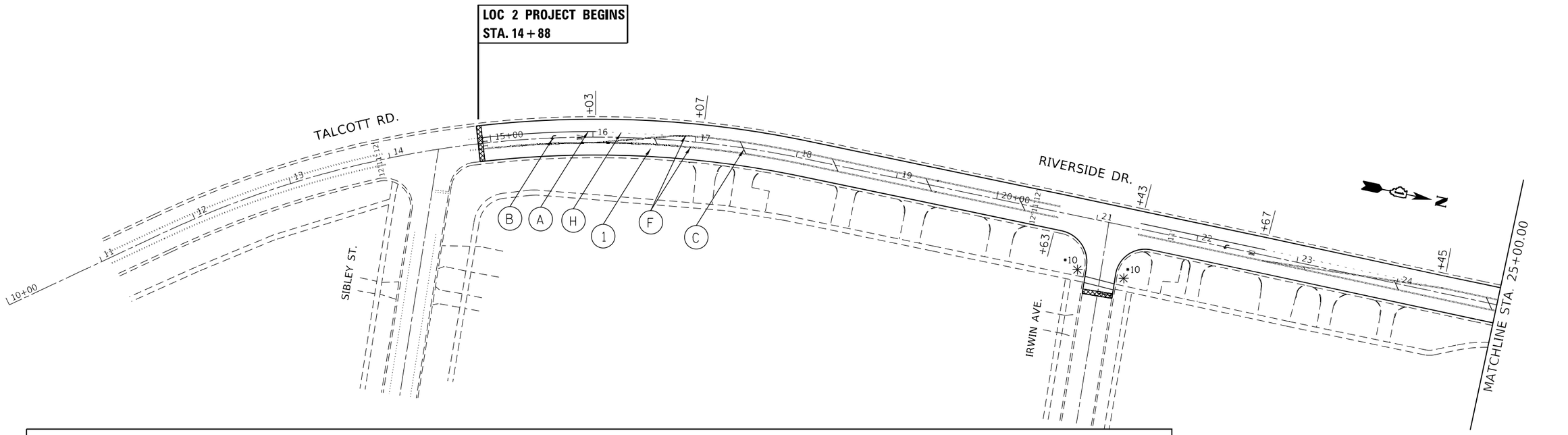
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (IL. ROUTE 83 TO WOLF RD.)

SCALE: 1"=50' | SHEET 4 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	19
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'



(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

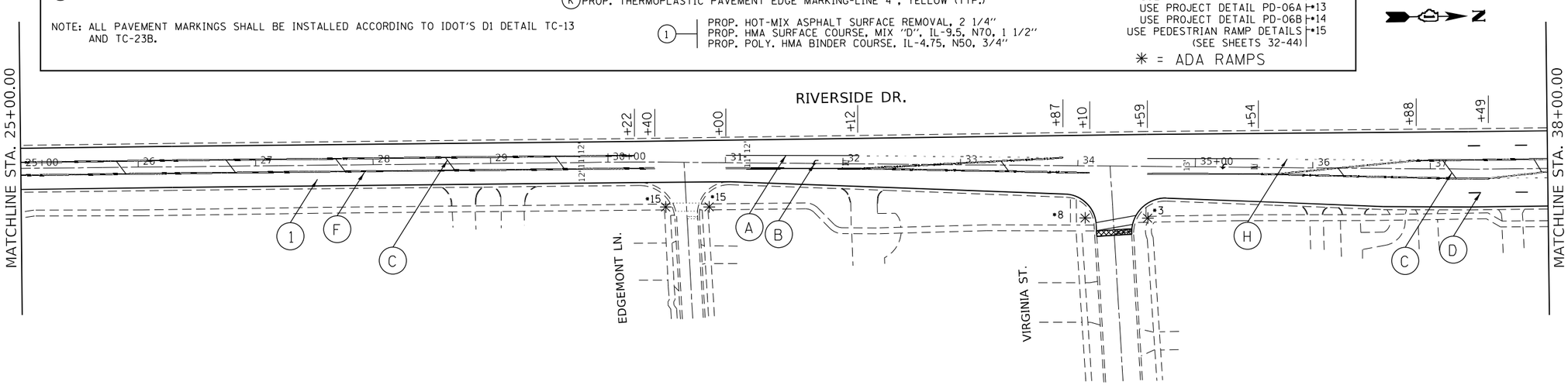
(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP IMPROVEMENT
USE PROJECT DETAIL PD-01A ├ •1
USE PROJECT DETAIL PD-01B ├ •2
USE PROJECT DETAIL PD-01C ├ •3
USE PROJECT DETAIL PD-02A ├ •4
USE PROJECT DETAIL PD-02B ├ •5
USE PROJECT DETAIL PD-02C ├ •6
USE PROJECT DETAIL PD-03A ├ •7
USE PROJECT DETAIL PD-03B ├ •8
USE PROJECT DETAIL PD-04A ├ •9
USE PROJECT DETAIL PD-04B ├ •10
USE PROJECT DETAIL PD-05A ├ •11
USE PROJECT DETAIL PD-05B ├ •12
USE PROJECT DETAIL PD-06A ├ •13
USE PROJECT DETAIL PD-06B ├ •14
USE PEDESTRIAN RAMP DETAILS ├ •15
(SEE SHEETS 32-44)

✳ = ADA RAMPS



HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 1/19/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (I-294 TO SIBLEY ST.)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	20
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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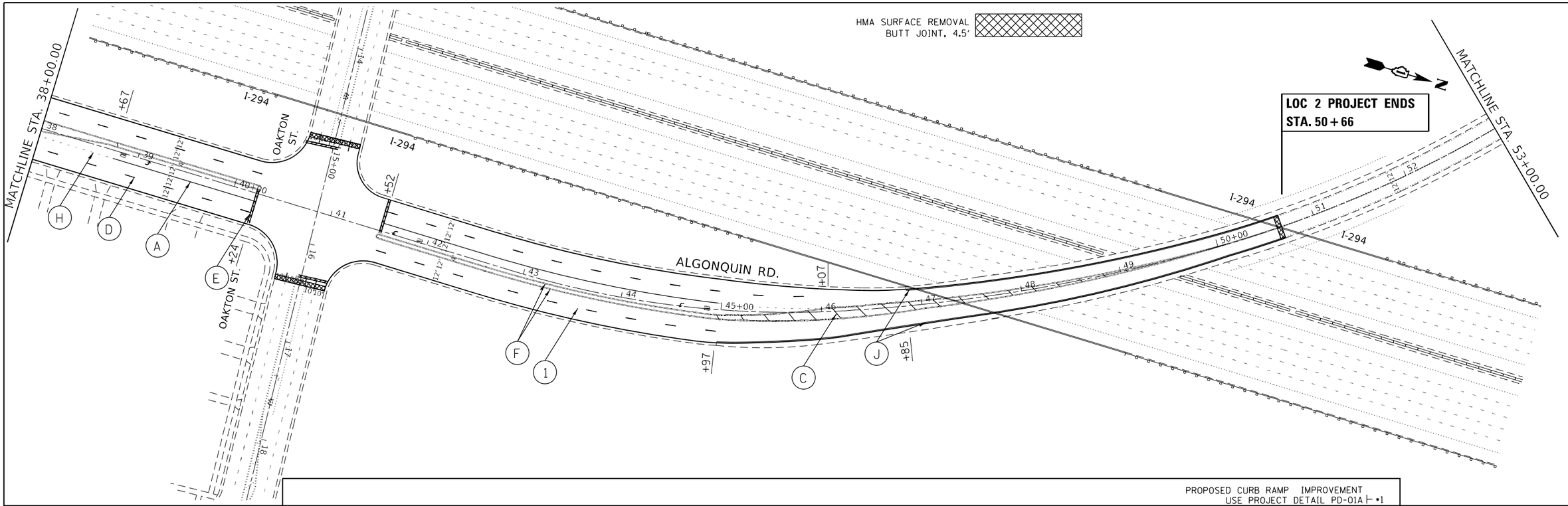


(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, YELLOW (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

(I) PROP. THERMOPLASTIC PAVEMENT SCHOOL CROSSWALK MARKING-LINE 12", WHITE (TYP.)

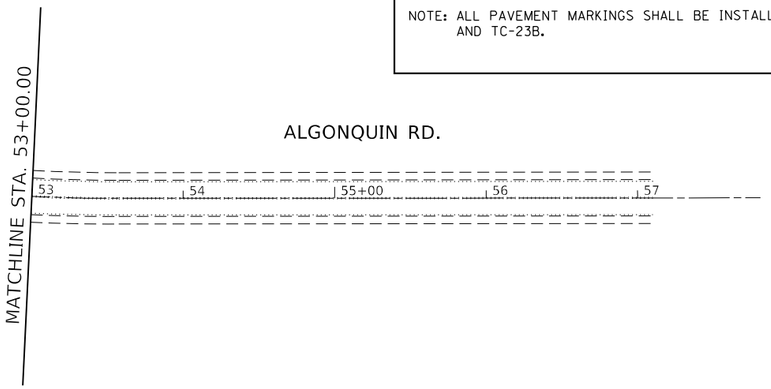
(J) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", WHITE (TYP.)

(K) PROP. THERMOPLASTIC PAVEMENT EDGE MARKING-LINE 4", YELLOW (TYP.)

(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP IMPROVEMENT
USE PROJECT DETAIL PD-01A ⊢•1
USE PROJECT DETAIL PD-01B ⊢•2
USE PROJECT DETAIL PD-01C ⊢•3
USE PROJECT DETAIL PD-02A ⊢•4
USE PROJECT DETAIL PD-02B ⊢•5
USE PROJECT DETAIL PD-02C ⊢•6
USE PROJECT DETAIL PD-03A ⊢•7
USE PROJECT DETAIL PD-03B ⊢•8
USE PROJECT DETAIL PD-04A ⊢•9
USE PROJECT DETAIL PD-04B ⊢•10
USE PROJECT DETAIL PD-05A ⊢•11
USE PROJECT DETAIL PD-05B ⊢•12
USE PROJECT DETAIL PD-06A ⊢•13
USE PROJECT DETAIL PD-06B ⊢•14
USE PEDESTRIAN RAMP DETAILS ⊢•15
(SEE SHEETS 32-44)

✳ = ADA RAMPS



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	DRAWN -	REVISED -	
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PLOT DATE = 1/19/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
ALGONQUIN ROAD (I-294 TO SIBLEY ST.)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	21
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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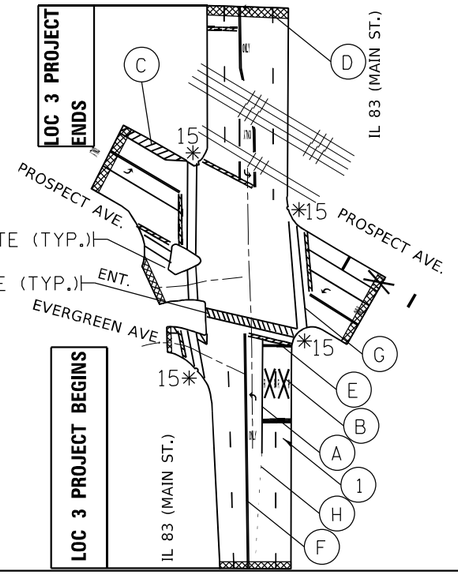
HMA SURFACE REMOVAL
BUTT JOINT, 4.5'



PROP. THERMOPLASTIC PAVEMENT MARKING LINE 8", WHITE (TYP.)

PROP. THERMOPLASTIC PAVEMENT BICYCLE CROSSWALK MARKING-LINE 12" AT 45 DEGREES, WHITE (TYP.)

NOTE: ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-13 AND TC-23B.

(A) PROP. THERMOPLASTIC PLASTIC PAVEMENT TURN LANE MARKING-LINE 6", WHITE (TYP.)

(B) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS AND SYMBOLS, WHITE (TYP.)

(C) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 12" @ 75' C-C, WHITE (TYP.)

(D) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 4", 10' DASH-30' SKIP, WHITE (TYP.)

(E) PROP. THERMOPLASTIC PAVEMENT STOP MARKING-LINE 24", WHITE (TYP.)

(F) PROP. THERMOPLASTIC PAVEMENT MARKING DOUBLE LINES 4" @ 11" C-C, YELLOW (TYP.)

(G) PROP. THERMOPLASTIC PAVEMENT PEDESTRIAN CROSSWALK MARKING-LINE 6", WHITE (TYP.)

(H) PROP. THERMOPLASTIC PAVEMENT MARKING-LINE 6", 2' DASH-6' SKIP, WHITE (TYP.)

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(1) PROP. HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
PROP. HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1 1/2"
PROP. POLY. HMA BINDER COURSE, IL-4.75, N50, 3/4"

PROPOSED CURB RAMP	IMPROVEMENT
1	USE PROJECT DETAIL PD-01A
2	USE PROJECT DETAIL PD-01B
3	USE PROJECT DETAIL PD-01C
4	USE PROJECT DETAIL PD-02A
5	USE PROJECT DETAIL PD-02B
6	USE PROJECT DETAIL PD-02C
7	USE PROJECT DETAIL PD-03A
8	USE PROJECT DETAIL PD-03B
9	USE PROJECT DETAIL PD-04A
10	USE PROJECT DETAIL PD-04B
11	USE PROJECT DETAIL PD-05A
12	USE PROJECT DETAIL PD-05B
13	USE PROJECT DETAIL PD-06A
14	USE PROJECT DETAIL PD-06B
15	USE PEDESTRIAN RAMP DETAILS (SEE SHEETS 32-44)

✳ = ADA RAMPS

HMA SURFACE REMOVAL
BUTT JOINT, 4.5'

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PLOT DATE = 1/25/2023	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN
IL ROUTE 83 (MAIN ST.) AT PROSPECT AVE.

SCALE: 1"=50' | SHEET 3 OF 4 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	22
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

ITEM	EXISTING	PROPOSED
CONTROLLER CABINET		
COMMUNICATION CABINET	ECC	CC
MASTER CONTROLLER	EMC	MC
MASTER MASTER CONTROLLER	EMMC	MMC
UNINTERRUPTABLE POWER SUPPLY		
SERVICE INSTALLATION -(P) POLE MOUNTED	P	P
SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED	G GM	G GM
TELEPHONE CONNECTION	ET	T
STEEL MAST ARM ASSEMBLY AND POLE		
ALUMINUM MAST ARM ASSEMBLY AND POLE		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE		
SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY		BM
WOOD POLE		
GUY WIRE		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD OPTICALLY PROGRAMMED	P P	P P
FLASHER INSTALLATION -(FS) SOLAR POWERED	F FS F FS	F FS F FS
PEDESTRIAN SIGNAL HEAD		
PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON	APS	APS
RADAR DETECTION SENSOR	R	R
VIDEO DETECTION CAMERA	V	V
RADAR/VIDEO DETECTION ZONE		
PAN, TILT, ZOOM (PTZ) CAMERA	PTZ	PTZ
EMERGENCY VEHICLE LIGHT DETECTOR		
CONFIMATION BEACON		
WIRELESS INTERCONNECT		
WIRELESS INTERCONNECT RADIO REPEATER	ERR	RR

ITEM	EXISTING	PROPOSED
HANDHOLE -SQUARE -ROUND		
HEAVY DUTY HANDHOLE -SQUARE -ROUND	H	H
DOUBLE HANDHOLE		
JUNCTION BOX	J	J
RAILROAD CANTILEVER MAST ARM		
RAILROAD FLASHING SIGNAL		
RAILROAD CROSSING GATE		
RAILROAD CROSSBUCK		
RAILROAD CONTROLLER CABINET		
UNDERGROUND CONDUIT (UC), GALVANIZED STEEL		
TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE		
SYSTEM ITEM	S	SP
INTERSECTION ITEM	I	IP
REMOVE ITEM		R
RELOCATE ITEM		RL
ABANDON ITEM		A
CONTROLLER CABINET AND FOUNDATION TO BE REMOVED		RCF
MAST ARM POLE AND FOUNDATION TO BE REMOVED		RMF
SIGNAL POST AND FOUNDATION TO BE REMOVED		RPF
DETECTOR LOOP, TYPE I		
PREFORMED DETECTOR LOOP	P	P
SAMPLING (SYSTEM) DETECTOR	S	S
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	IS	IS
QUEUE AND SAMPLING (SYSTEM) DETECTOR	QS	QS
WIRELESS DETECTOR SENSOR	W	W
WIRELESS ACCESS POINT		

ITEM	EXISTING	PROPOSED
SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD	P	P
SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE	P RB	P RB
PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS		
PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER	C D	C D
ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN"		
NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED	5	5
GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN)	1#6	1#6
ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C	1	1
COAXIAL CABLE	C	C
VENDOR CABLE	V	V
COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED	6#18	6#18
FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F	12F 24F 36F	12F 24F 36F
GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE	C M P S	C M P S

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PLOT DATE = 1/18/2023	DATE	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: ..... SHEET ___ OF ___ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	23
		CONTRACT NO. 62R17		
		ILLINOIS FED. AID PROJECT		

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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.

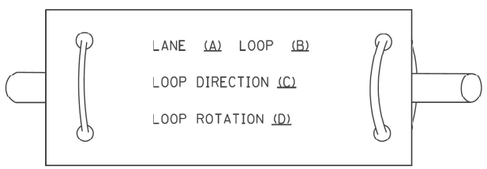
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.

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

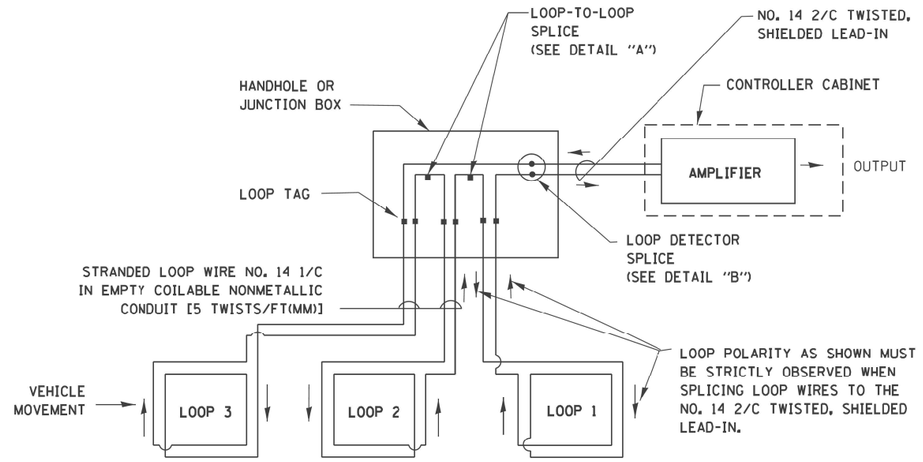


A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY

B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.

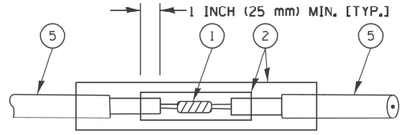
C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".

D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

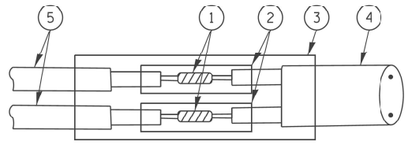


DETECTOR LOOP WIRING SCHEMATIC

- 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.

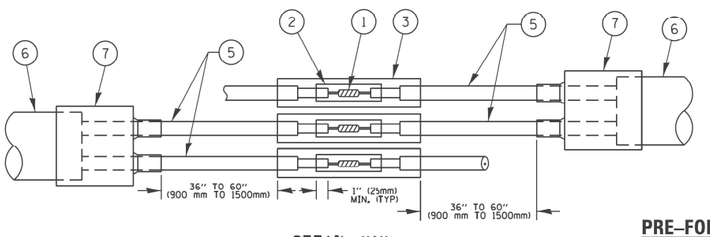


DETAIL "A"
LOOP-TO-LOOP SPLICE



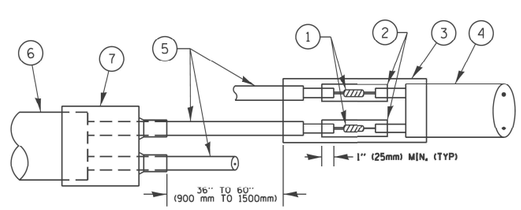
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

PRE-FORMED LOOP



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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 LENGHT 6" (150 mm), UNDERWATER GRADE.

(4) NO. 14 2/C TWISTED, SHIELDED CABLE.

(5) LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

(6) PRE-FORMED LOOP

(7) XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

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	DRAWN - -	REVISED - -
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PLOT DATE = 1/18/2023	DATE - -	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

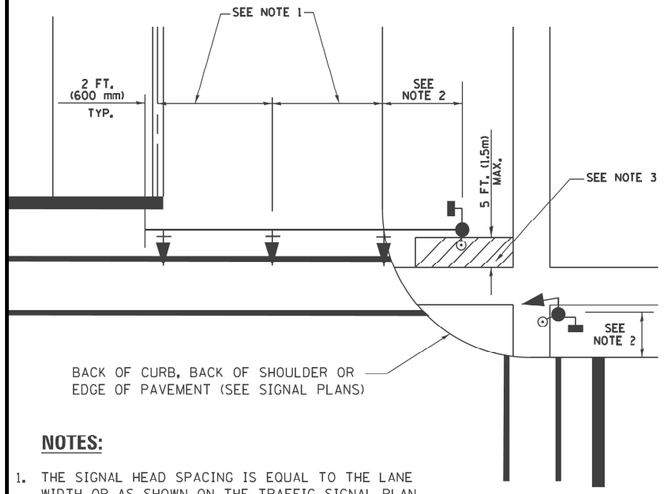
SCALE: ..... | SHEET --- OF --- SHEETS | STA. ---------- TO STA. ----------

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	24
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

Details.dgn 1/18/2023 11:31:53 AM User=Clayton.Bayer

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

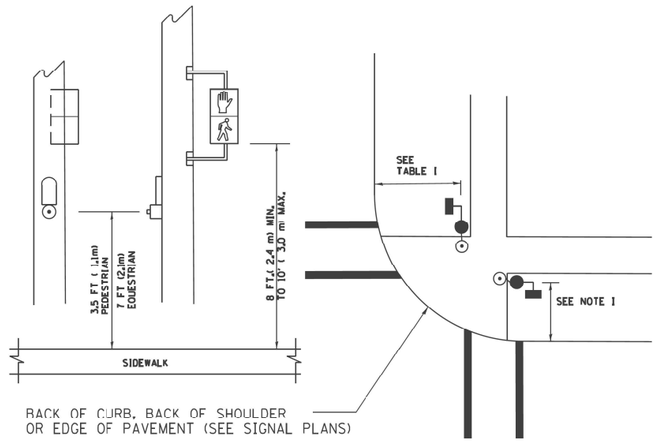
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



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."

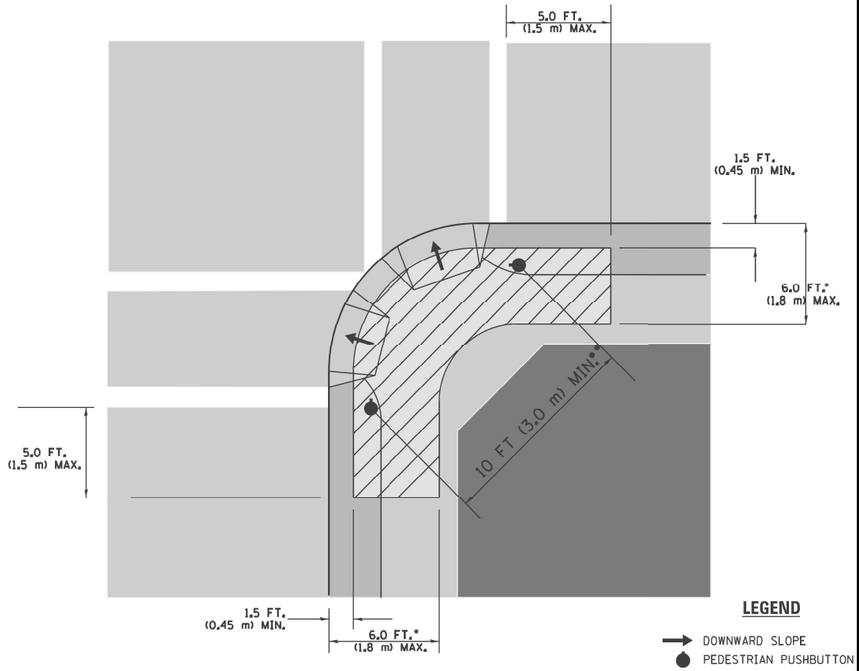
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



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 CR 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 TOTHE 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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	DRAWN - -	REVISED - -
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PLOT DATE = 1/18/2023	DATE - -	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	25
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

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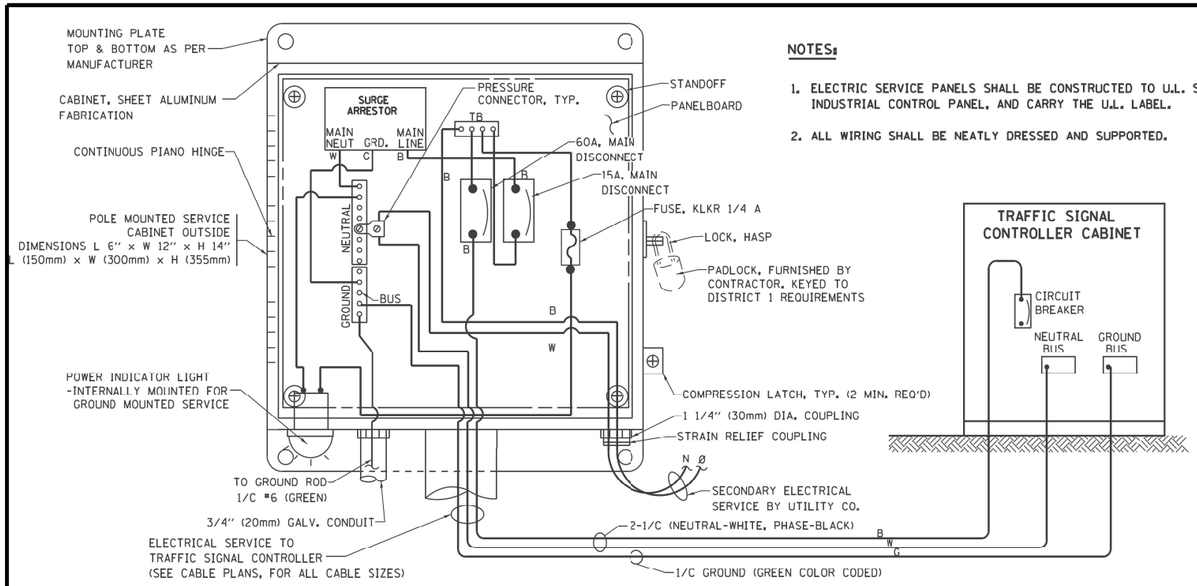


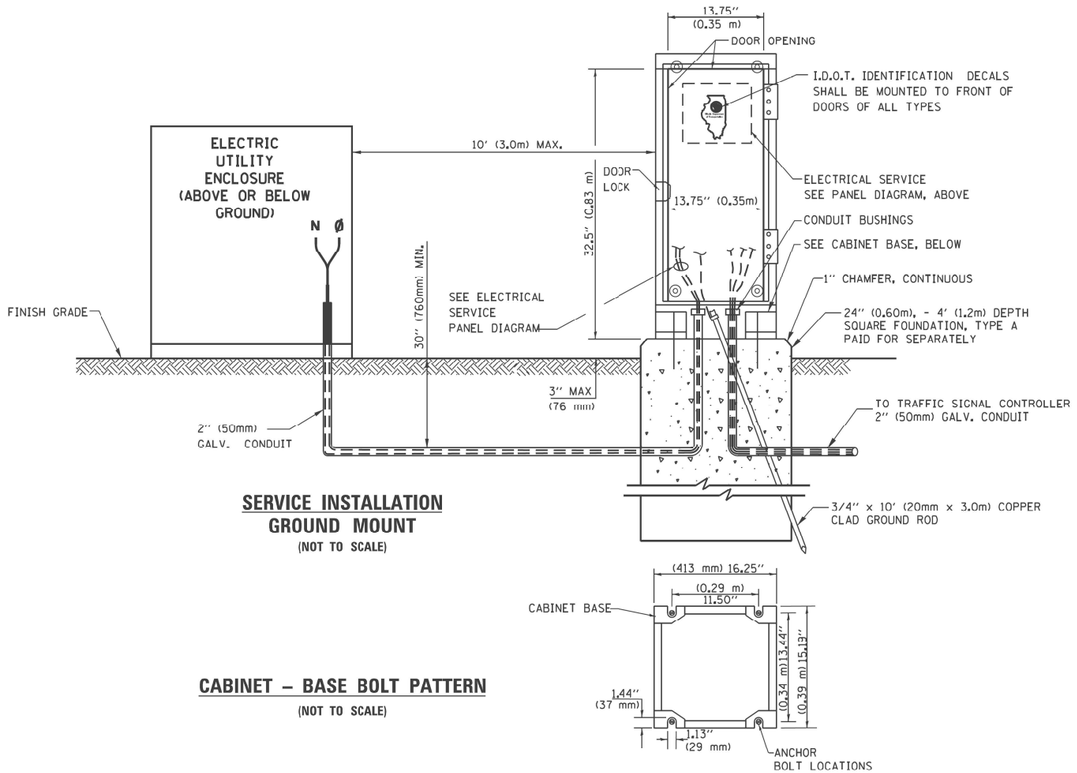
NOTES:

1. ELECTRIC SERVICE PANELS SHALL BE CONSTRUCTED TO U.L. STD 508, INDUSTRIAL CONTROL PANEL, AND CARRY THE U.L. LABEL.
2. ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.

ELECTRICAL SERVICE – PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)

SERVICE INSTALLATION POLE MOUNT (SHOWN)

(NOT TO SCALE)

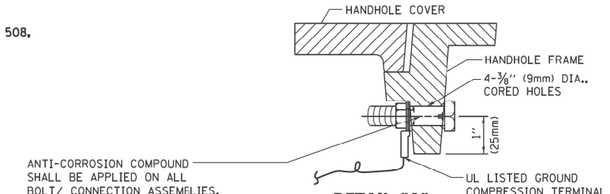


SERVICE INSTALLATION GROUND MOUNT

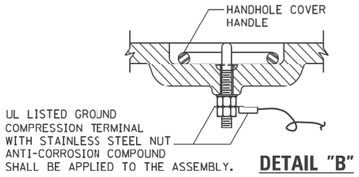
(NOT TO SCALE)

CABINET – BASE BOLT PATTERN

(NOT TO SCALE)



DETAIL "A"

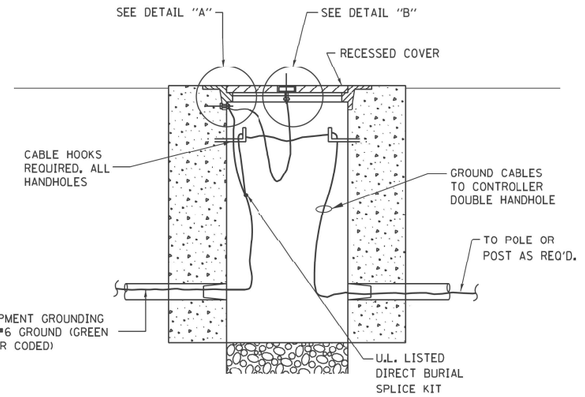


DETAIL "B"

NOTES:

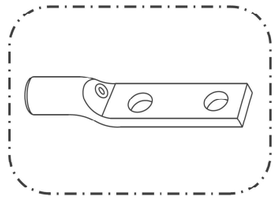
GROUNDING SYSTEM

1. 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.
2. 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.
3. ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
4. THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.

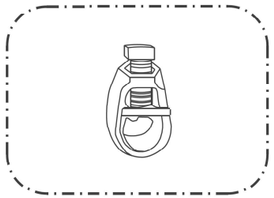


HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



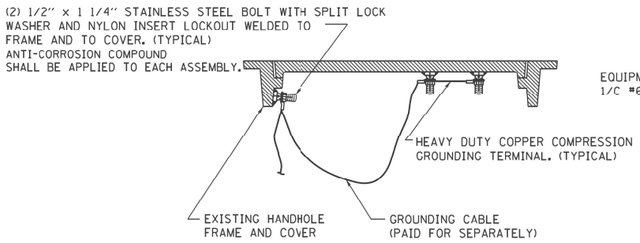
HEAVY-DUTY COMPRESSION TERMINAL (BURNDY TYPE YCHA OR APPROVED EQUAL)



3/4" (20mm) HEAVY-DUTY GROUND ROD CLAMP (BURNDY TYPE GRC OR APPROVED EQUAL)

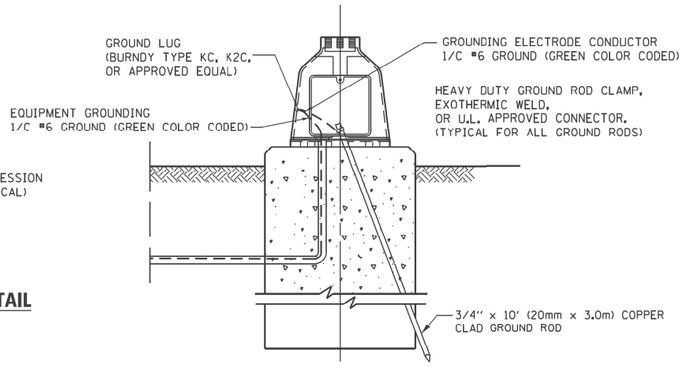
NOTES:

- 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.



EXISTING HANDHOLE COVER & FRAME – GROUNDING DETAIL

(NOT TO SCALE)



MAST ARM POLE / POST–GROUNDING DETAIL

(NOT TO SCALE)

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USER NAME = Clayton.Bayer	DESIGNED - -	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - -	REVISED - -	DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAILS
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PLOT DATE = 1/18/2023	DATE - -	REVISED - -	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	26
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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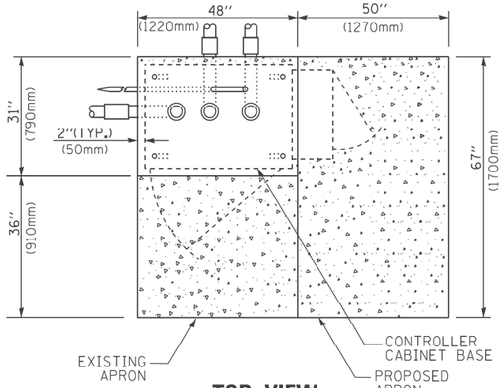
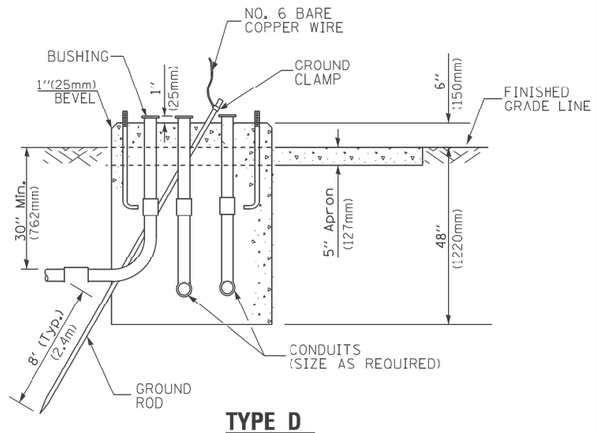
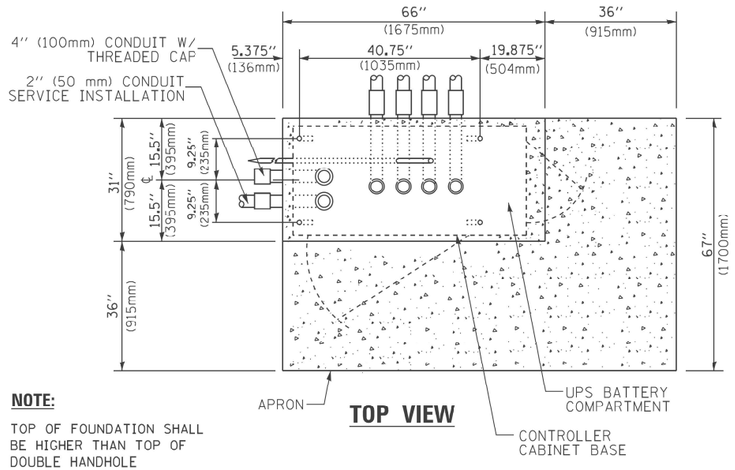


TOP VIEW



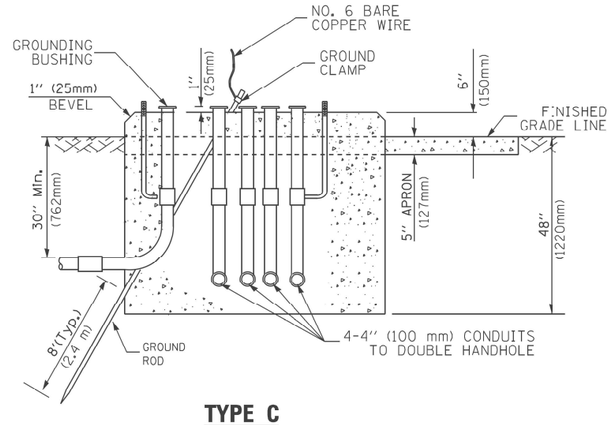
TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET



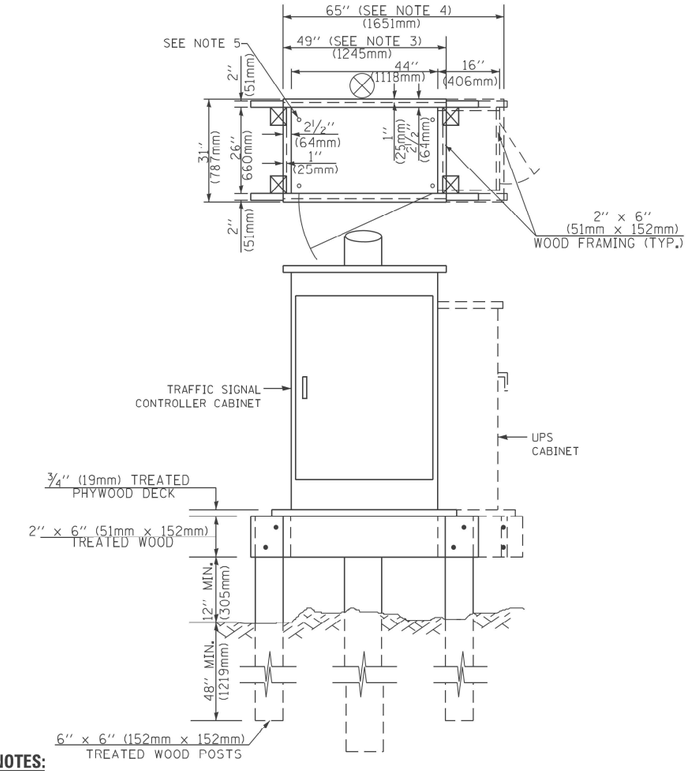
NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE

TOP VIEW



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)
	11'-0'' (3.4 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	13'-0'' (4.0 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	15'-0'' (4.6 m)	36'' (900mm)	30'' (750mm)	12	7(22)
Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)	21'-0'' (6.4 m)	42'' (1060mm)	36'' (900mm)	16	8(25)
Greater than or equal to 65' (19.8 m) and up 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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	DRAWN - -	REVISED - -
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PLOT DATE = 1/18/2023	DATE - -	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	27
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

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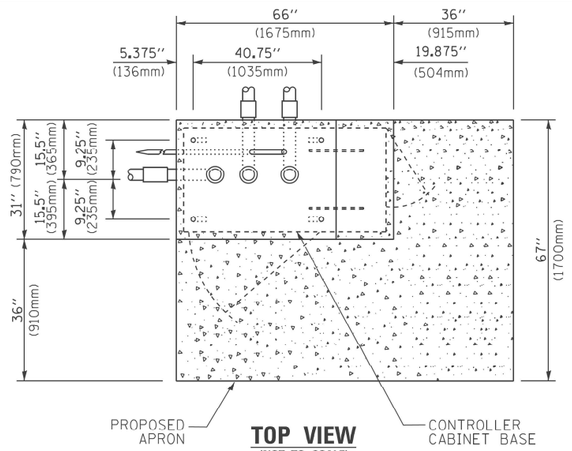
NOTES:

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.

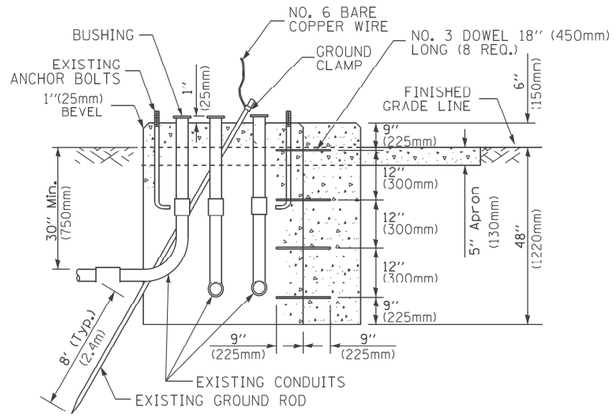
HANDHOLE WITH MINIMUM CONDUIT DEPTH

(NOT TO SCALE)



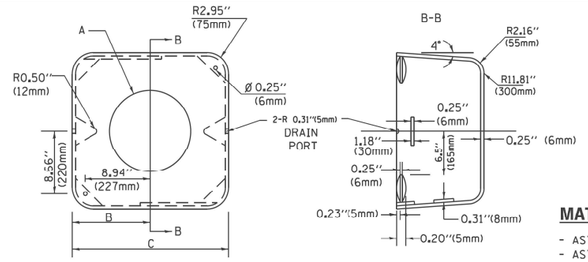
TOP VIEW

(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)

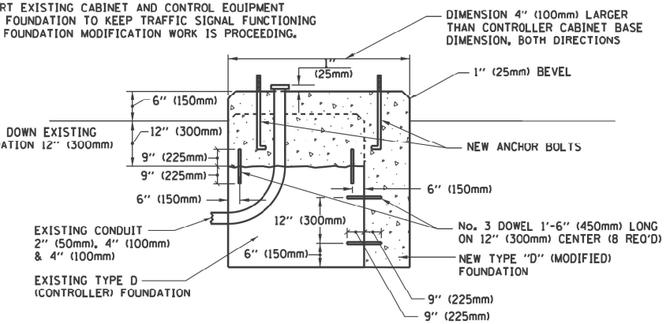
SHROUD

NOTES:

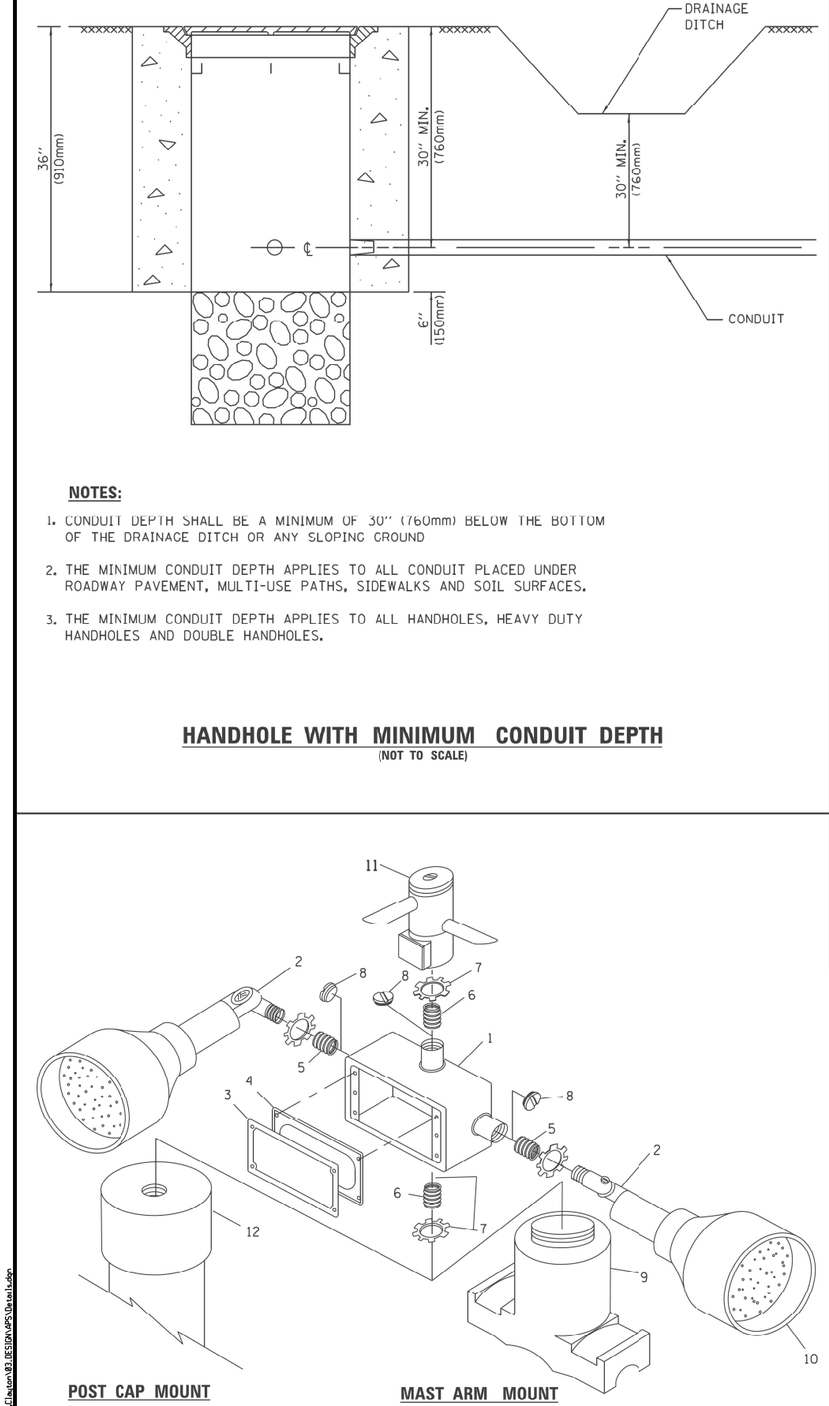
1. DIMENSION "A" IS EQUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SHALL BE TIGHT TO THE MAST ARM POLE.
2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE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



POST CAP MOUNT

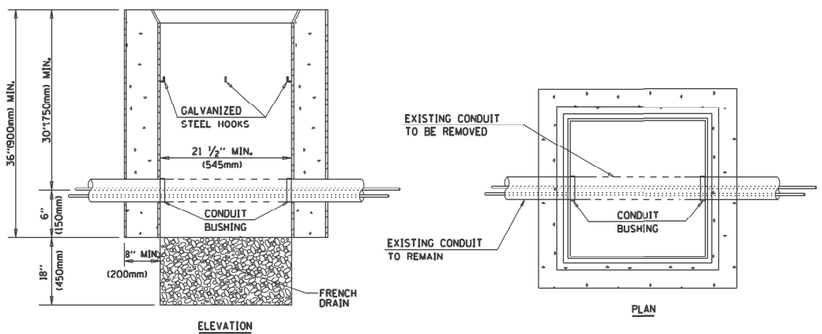
MAST ARM MOUNT

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	¾"(19 mm) CLOSE NIPPLE
7	¾"(19 mm) LOCKNUT
8	¾"(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.



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

USER NAME = Clayton.Bayer	DESIGNED - -	REVISED - -	
	DRAWN - -	REVISED - -	
PLOT SCALE = 40.6400 sf / in.	CHECKED - -	REVISED - -	
PLOT DATE = 1/18/2023	DATE - -	REVISED - -	

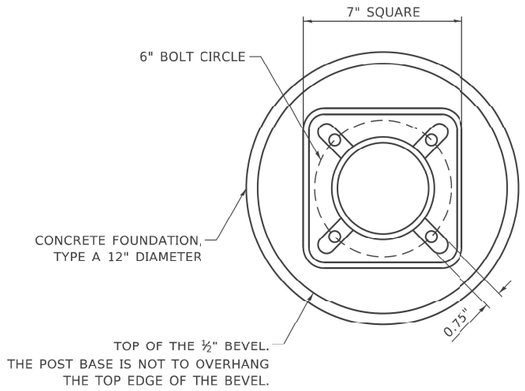
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	28
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

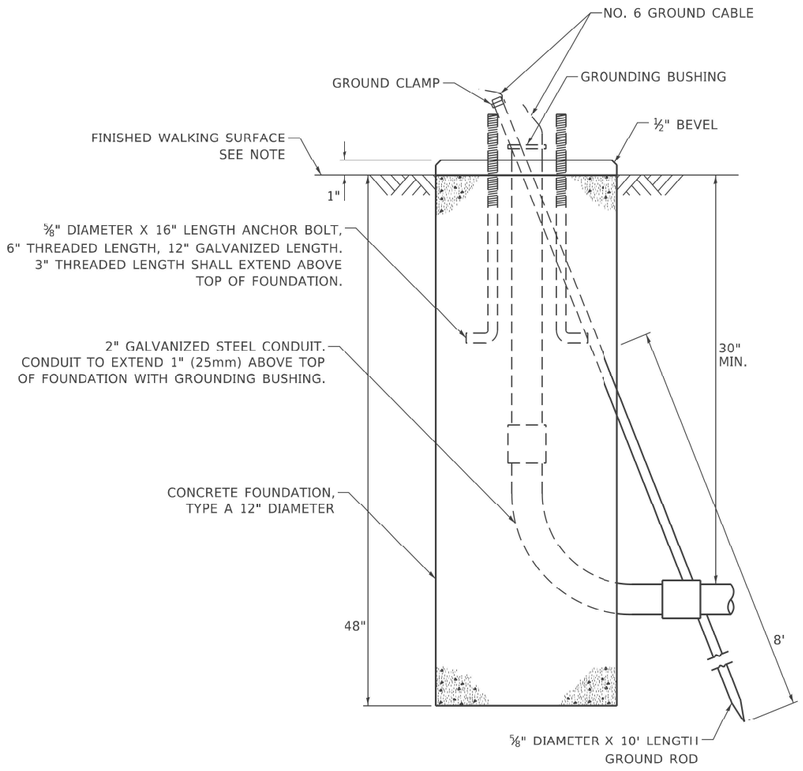
MODEL: Default
FILE NAME: S:\WP\Design\Bayer_Clayton\03 DESIGN\PS\Details.dgn



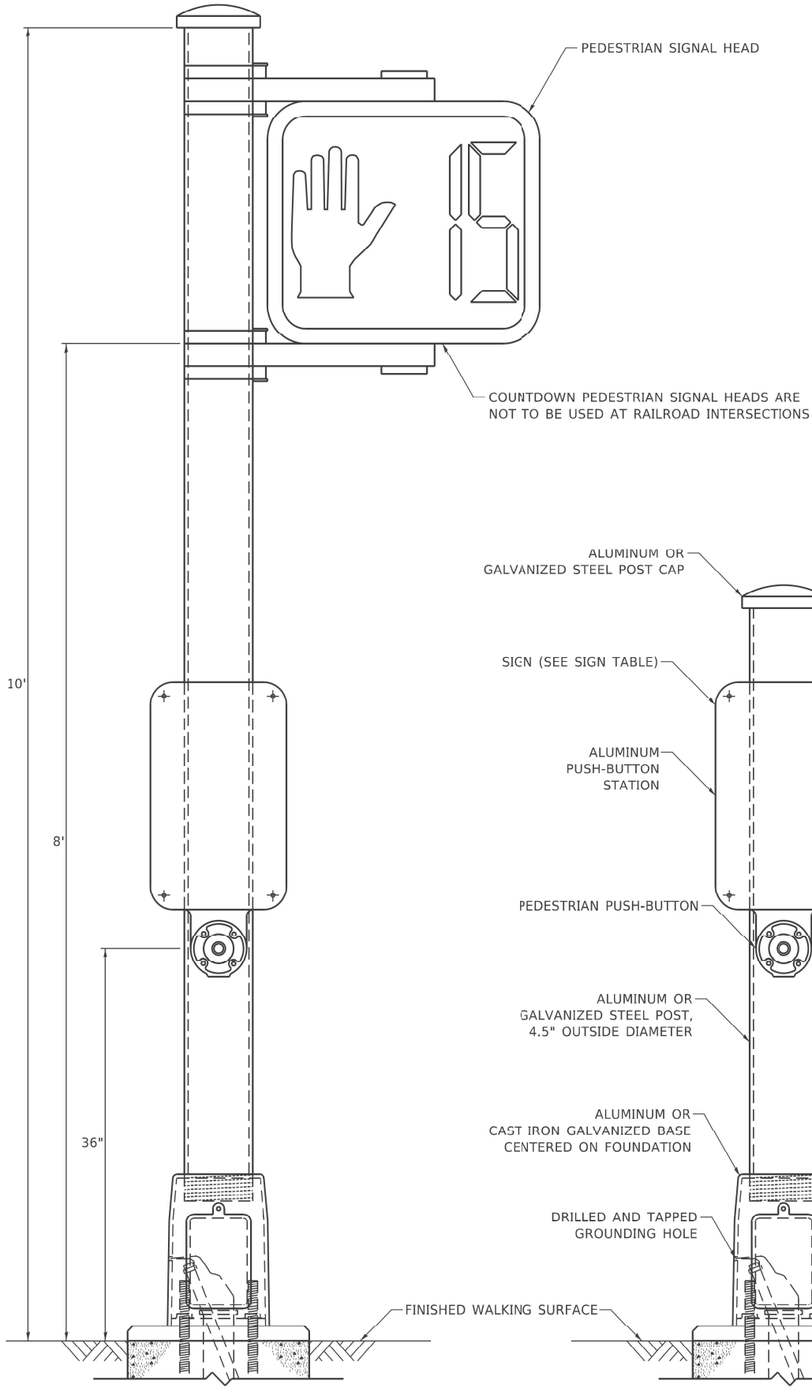
BOLT PATTERN

NOTE:

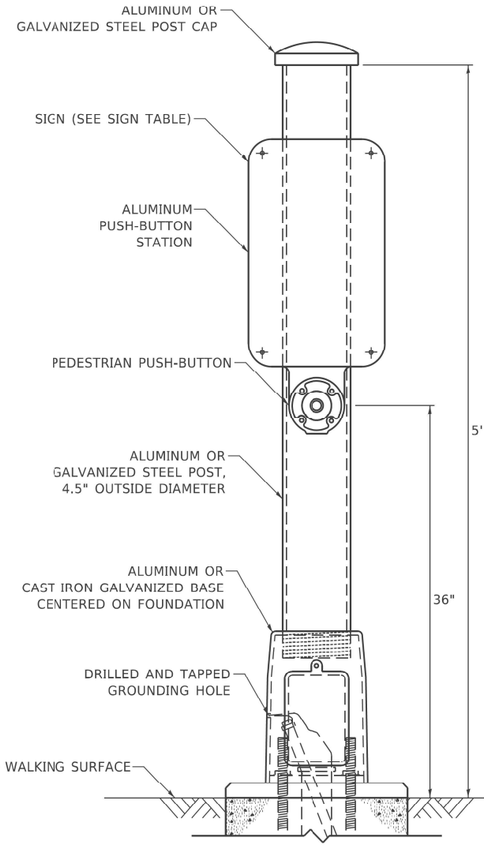
1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



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 15"

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: Default
FILE NAME: S:\MP\Design\Bayer_Clayton\R3_DESIGN\APS\10details.dgn

USER NAME = Clayton.Bayer	DESIGNED · ·	REVISED · ·	
	DRAWN · ·	REVISED · ·	
PLOT SCALE = 40.6400 sf / in.	CHECKED · ·	REVISED · ·	
PLOT DATE = 1/18/2023	DATE · ·	REVISED · ·	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	29
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	

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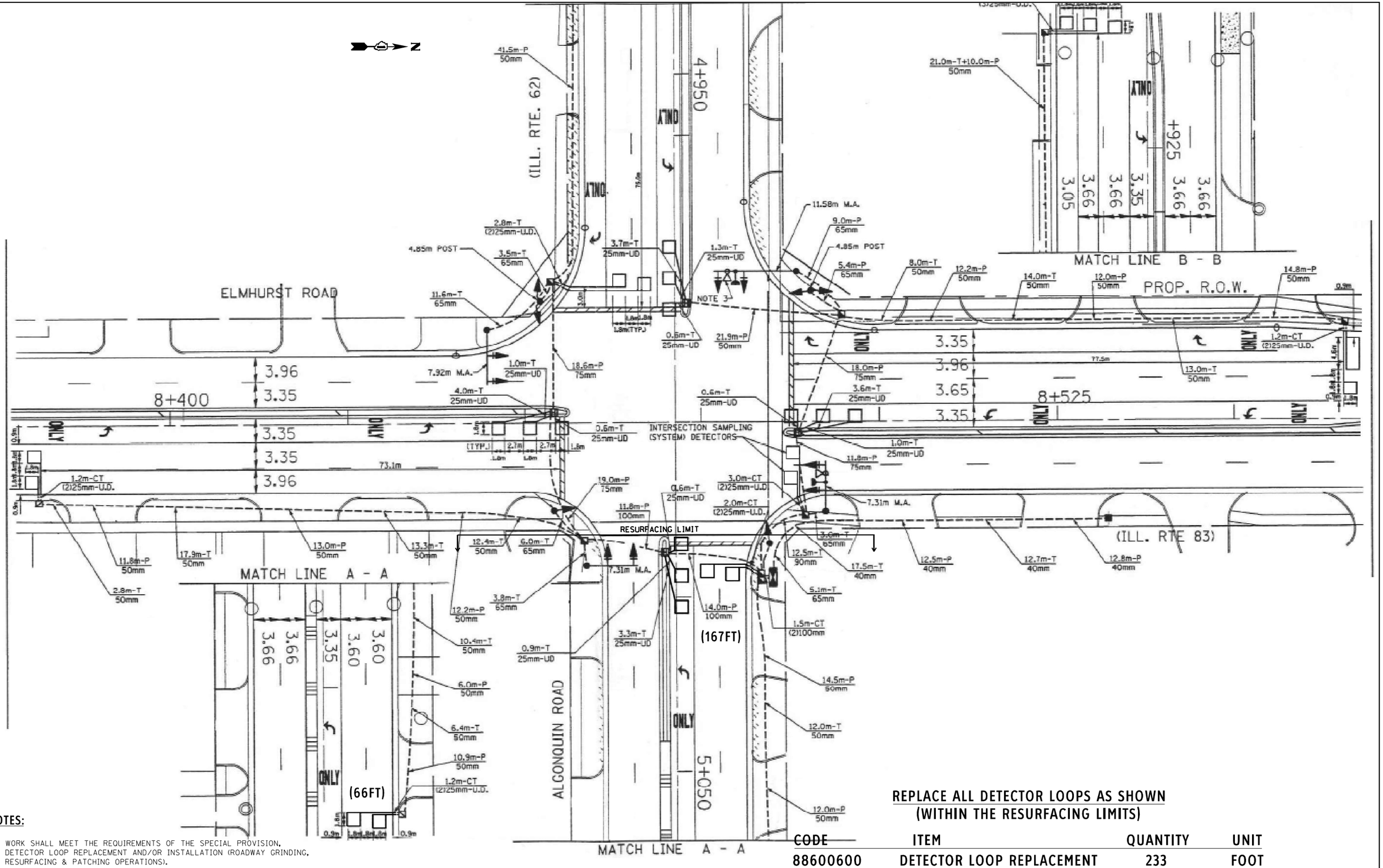

NOTES:

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	233	FOOT

TS#2925

USER NAME = mezag	DESIGNED - Steven M. Nguyen	REVISED -	
	DRAWN - Gonzalo Meza	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - Steven M. Nguyen	REVISED -	
PLOT DATE = 7/12/2022	DATE - 07/06/2022	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
ALGONQUIN RD. AT ELMHURST RD.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	21 RS	COOK	63	30
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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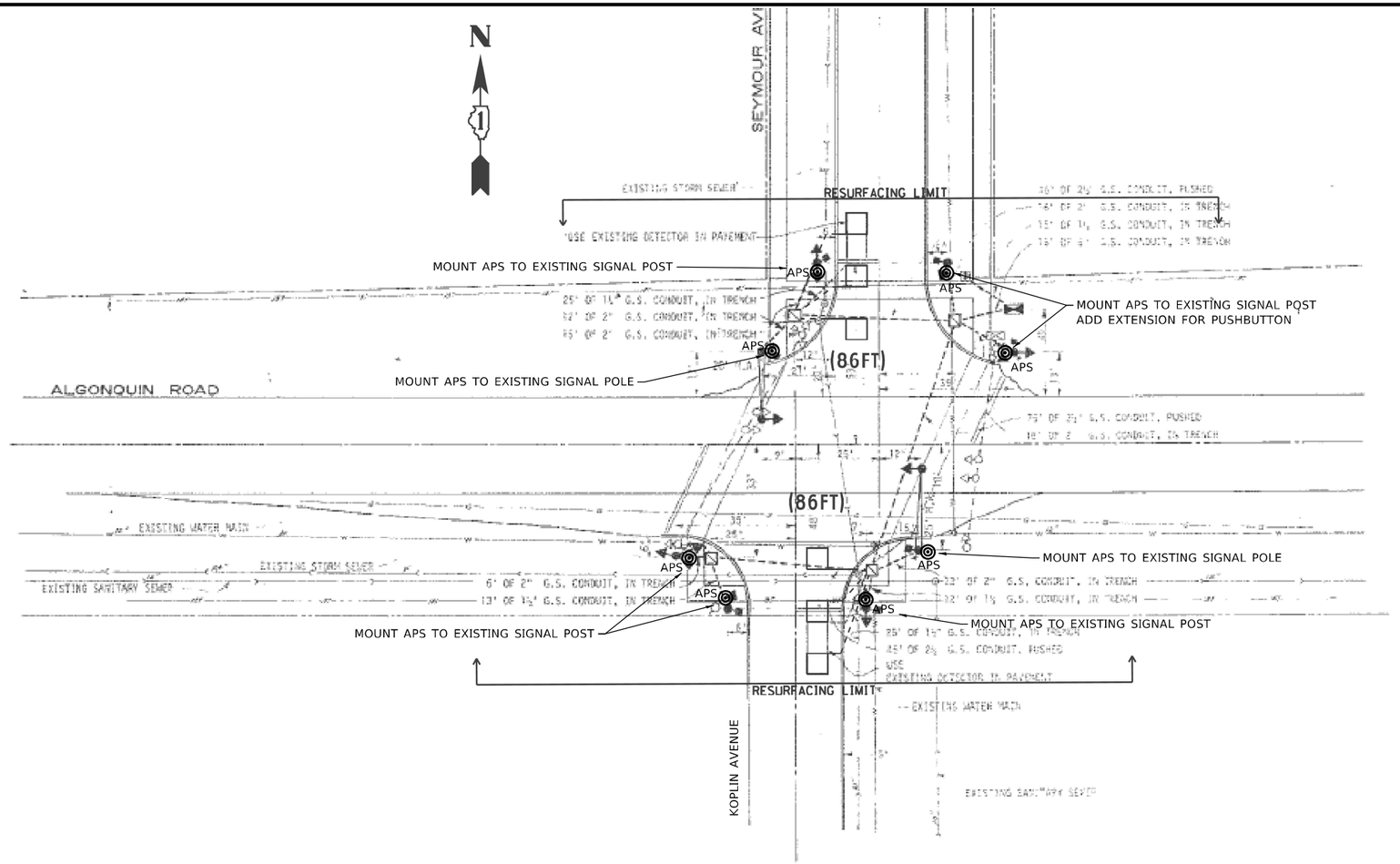

REMOVAL AND RELOCATION NOTES:

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.

4 EACH PEDESTRIAN PUSH-BUTTON

NOTES:

1. REMOVE EXISTING PUSH BUTTONS AND ASSOCIATED WIRES.

2. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POLES OR POSTS WITH EXISTING OR NEW NO. 14 2C WIRE.

3. THIS PLAN IS FOR THE REMOVAL OF PUSH BUTTONS, INSTALLATION OF APS PUSH BUTTONS, AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.

4. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).

5. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.

TS 13005

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

TRAFFIC SIGNAL MODIFICATION PLAN
ALGONQUIN RD AND KOLPIN DR/SEYMOUR AVE

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
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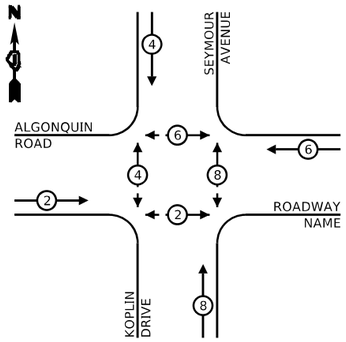
APS-Seymour Ave.dgn 1/26/2023 8:27:33 PM User=Clayton.Bayer

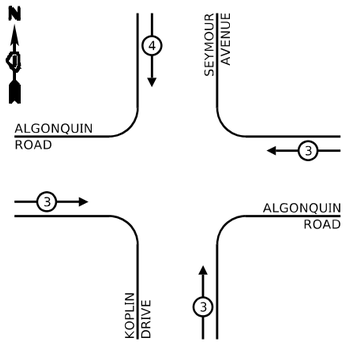
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OL — OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	498
DETECTOR LOOP, TYPE I	FOOT	172
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

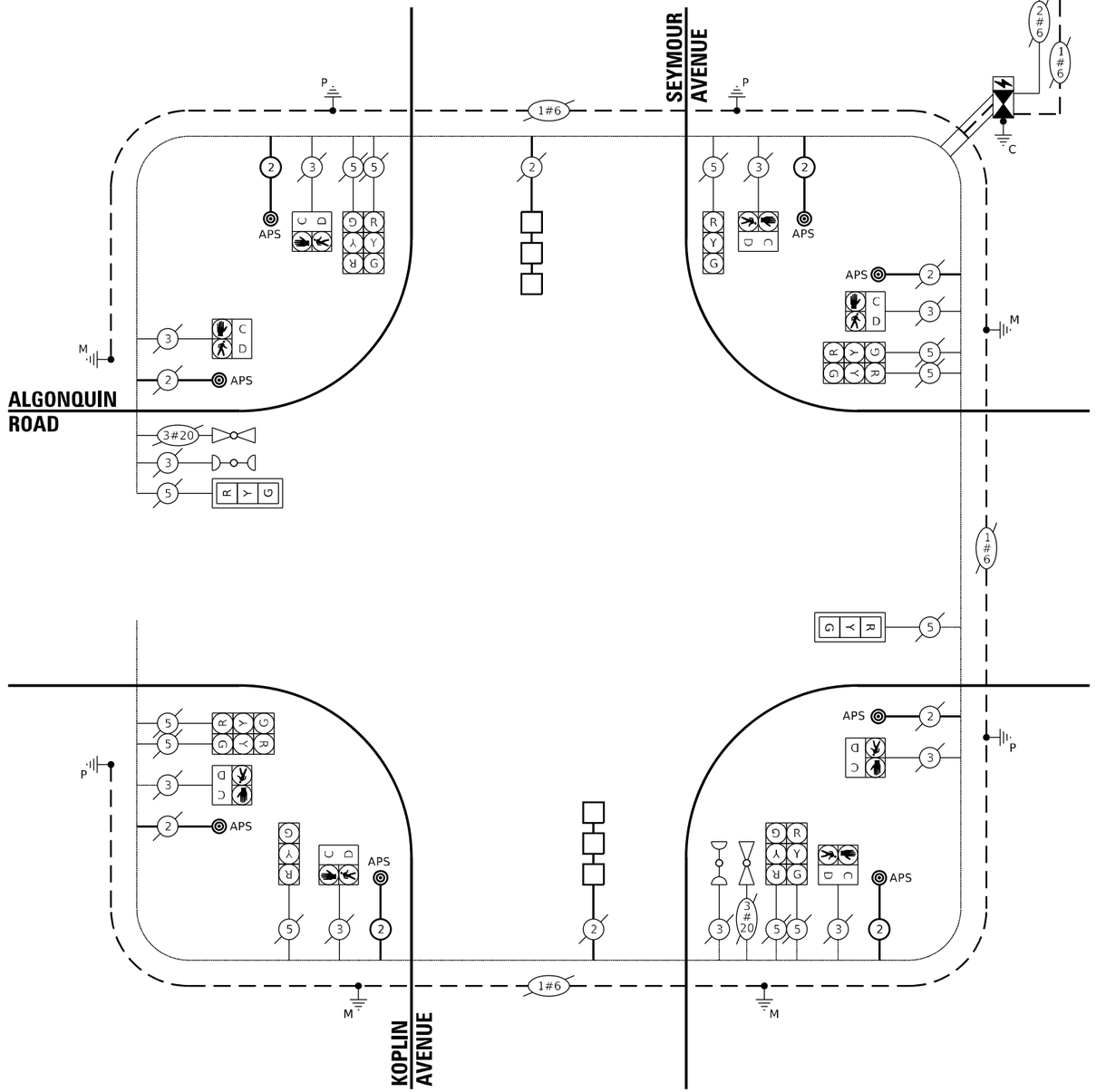
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	11	50	66.0
(YELLOW)	12	20	5	12.0
(GREEN)	12	12	45	64.8
PERMISSIVE ARROW	-	10	10	-
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	427.8

ENERGY COSTS TO:

VILLAGE OF DES PLAINES
1111 JOSEPH J SCHAWB RD
DES PLAINES, IL 60016

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 00231-66109



CABLE PLAN
(NOT TO SCALE)

TS 13005

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN RD AND KOLPIN DR/SEYMOUR AVE	F.A.U. RTE. 3514 · SECTION FAU 3514 21 RS · COUNTY COOK · TOTAL SHEETS 63 · SHEET NO. 31A
	DRAWN - CLAYTON BAYER	REVISED - -			CONTRACT NO. 62R17
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -		SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____	ILLINOIS FED. AID PROJECT
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -			

MODEL: Default
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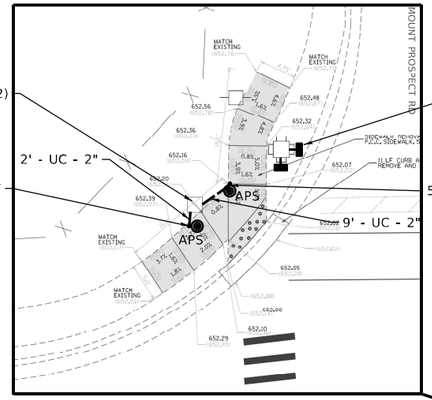


DRILL EXISTING HANDHOLE (2)

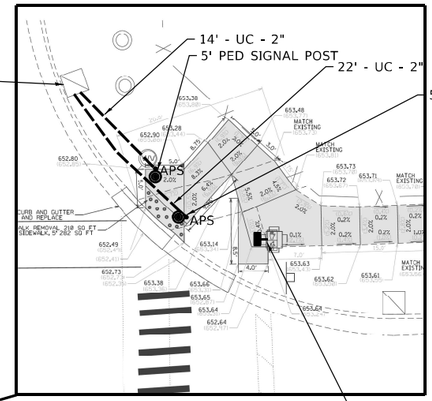
2' - UC - 2"

5' PED SIGNAL POST

MOUNT PEDESTRIAN HEADS TO EXISTING SIGNAL POST

5' PED SIGNAL POST

9' - UC - 2"



5' PED SIGNAL POST

MOUNT PEDESTRIAN HEAD TO EXISTING SIGNAL POST

DRILL EXISTING HANDHOLE (2)

Interconnect Conduit To Detector Handhole At U.G.P.

340'-2"-T

ROAD

Δ250'

22' Mast Arm (Typical 4 Places)

255'-1¼"-T

60'-3"-T

10'-2"-T

50'-3½"-T

30'-2½"-T

15'-2½"-T

45'-3"-T

55'-7"-T

20'-2"-T

20'-1"-T Total 2 Runs

220'-1¼"-T

RESURFACING LIMIT

38'

24'

12' 12' 12' 12' 12'

(96FT)

(161FT)

60' Typical 4 Places

19'

Δ47' Typical 4 Places

25'-1"-T Total 3 Runs (4 Places)

M12 Median

82' Typical 4 Places

20'-1"-T 2 Runs 4 Places

(65FT)

ALGONQUIN

Δ225'

6x6' Detector Loops All Places

(96FT)

(65FT)

50'-3½"-T

30'-1½"-T

3 Each

185'-1¼"-T

25'-3½"-T

10'-2"-T

60'-3"-T

30'-2½"-T

MOUNT PEDESTRIAN HEAD TO EXISTING SIGNAL POST

APS

DRILL EXISTING HANDHOLE

5' - UC - 2"

5' PED SIGNAL POST

RESURFACING LIMIT

30'-2½"-T

5'-2"-T

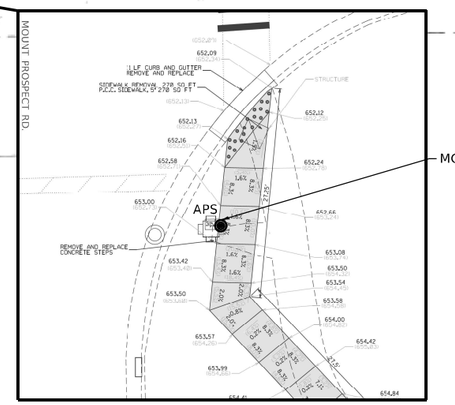
15'-2"-T

55'-3"-T

285'-1¼"-T

MT. PROSPECT

Δ250'



MOUNT APS TO EXISTING SIGNAL POST

REMOVAL AND RELOCATION 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.

2 EACH PEDESTRIAN PUSH-BUTTON

NOTES:

1. REMOVE EXISTING PUSH BUTTONS AND ASSOCIATED WIRES.

2. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS OR NEW STANDALONE POSTS WITH EXISTING OR NEW NO. 14 2C WIRE.

3. THIS PLAN IS FOR THE REMOVAL OF PUSH BUTTONS, INSTALLATION OF APS PUSH BUTTON AND PEDESTRIAN COUNTDOWN TIMERS, AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.

4. ADD PEDESTRIAN PHASES FOR NEW CROSSINGS ON NORTH AND WEST APPROACHES.

5. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATONS)

6. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.

TS 4120

MODEL: Default
FILE NAME: S:\VP\Design\Bayer-Clayton\03 DESIGN 62R17\APS\APS-MT Prospect Rd.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

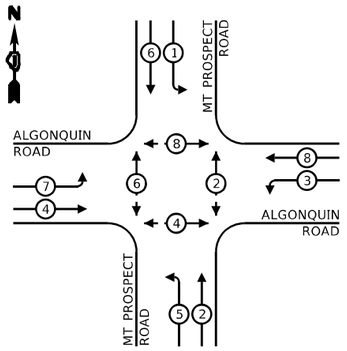
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
ALGONQUIN RD AND MT PROSPECT RD

SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31B
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

PROPOSED CONTROLLER SEQUENCE



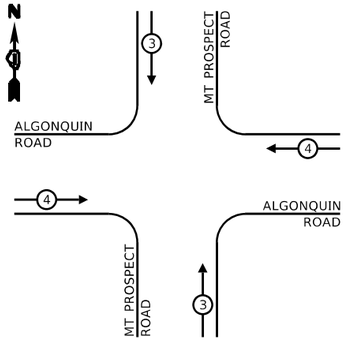
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	52
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	611
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	691
DRILL EXISTING HANDHOLE	EACH	5
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE I	FOOT	579
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	55
PEDESTRIAN SIGNAL POST, 5 FT	EACH	5
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	20
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



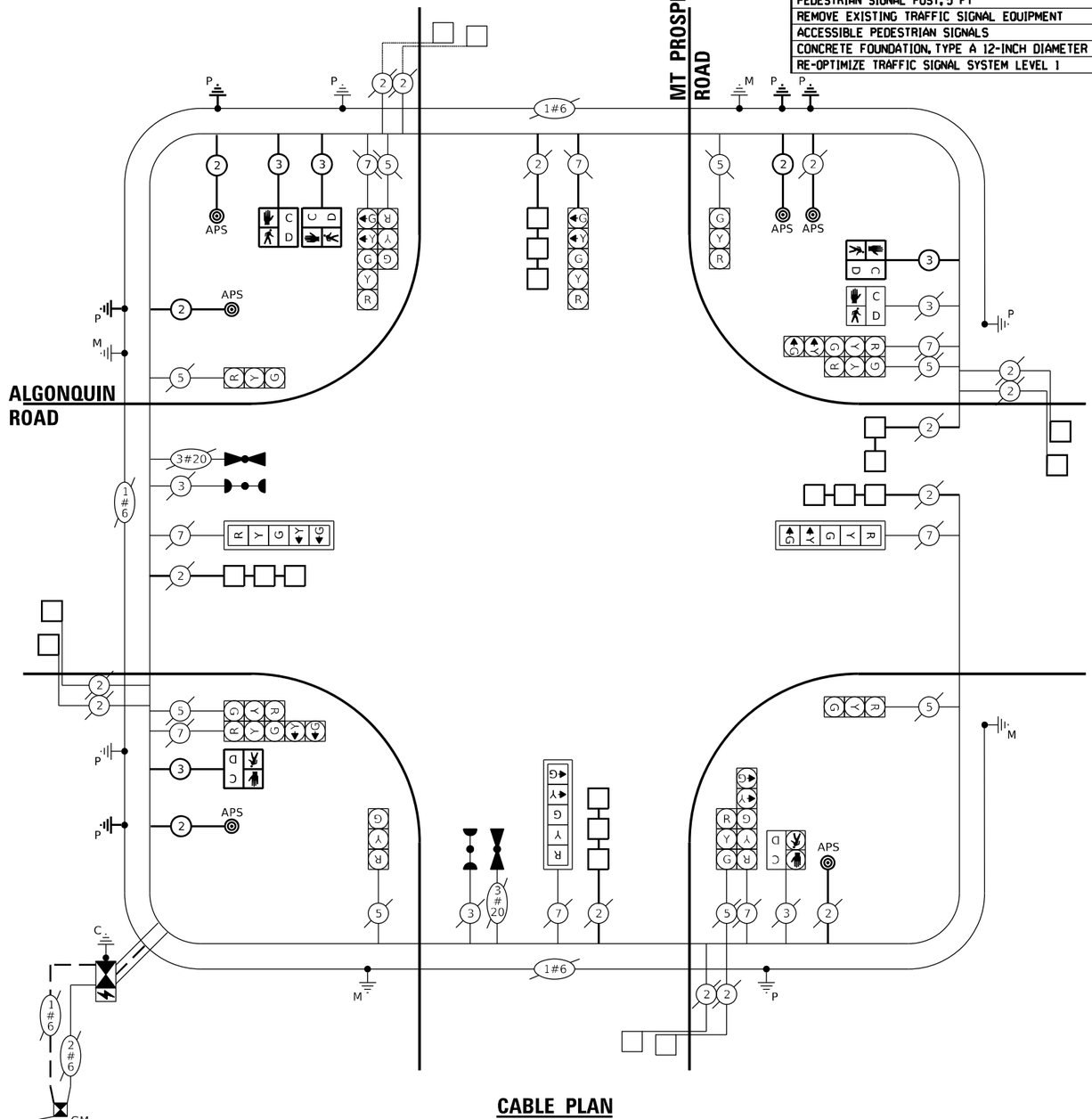
TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	6	20	100	120.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	451.4

ENERGY COSTS TO:

ILLINOIS DEPARTMENT OF TRANSPORTATION
201 WEST CENTER POINT
SCHAUMBURG, IL 60196-1096

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 01131-00020



CABLE PLAN
(NOT TO SCALE)

TS 4120

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -	

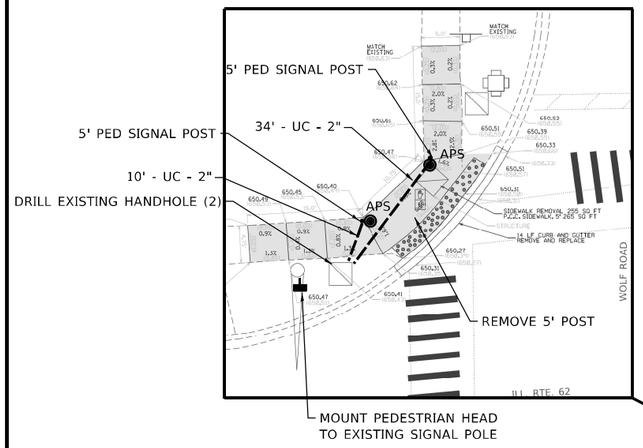
CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN RD AND MT PROSPECT RD

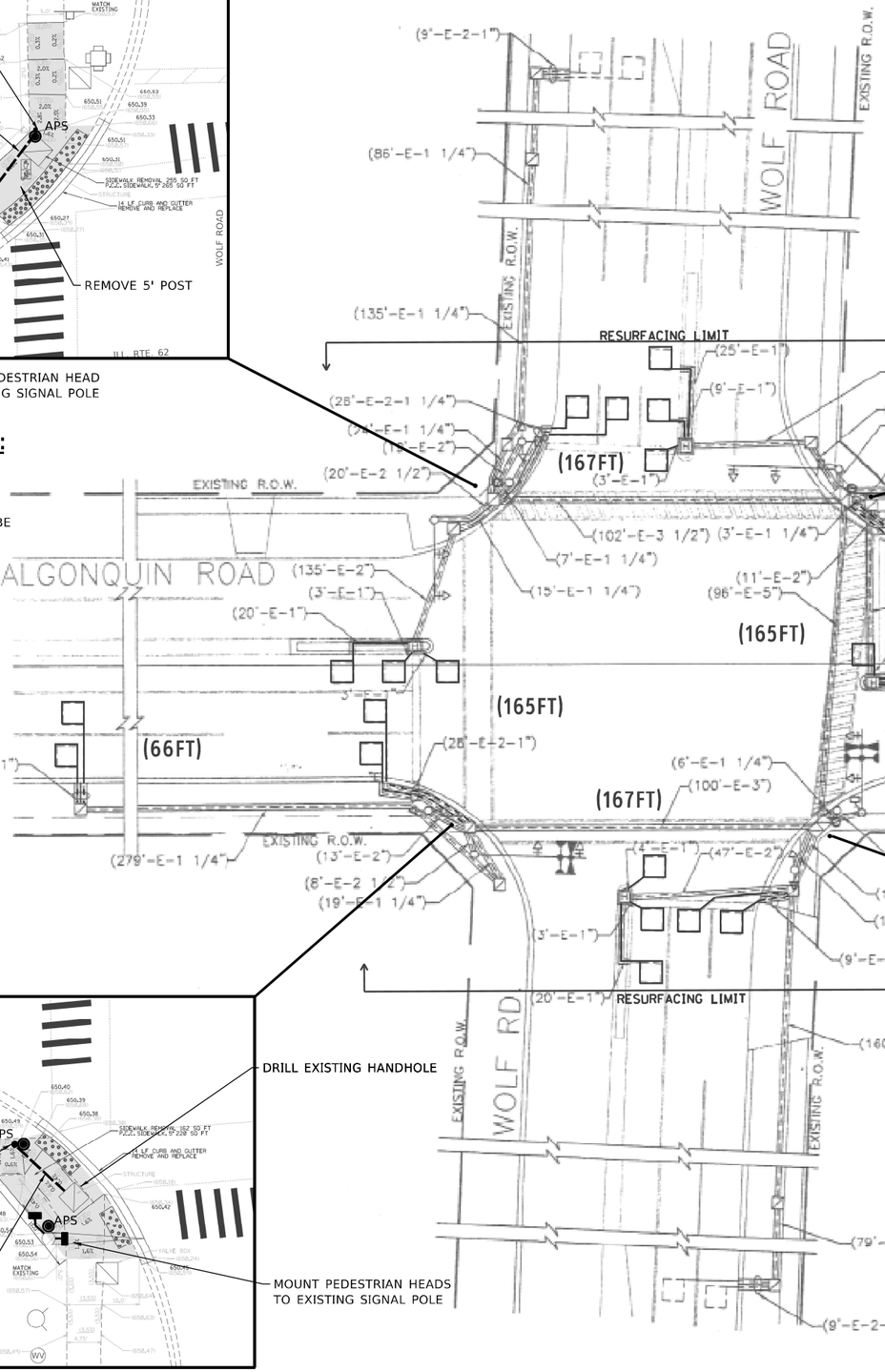
SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

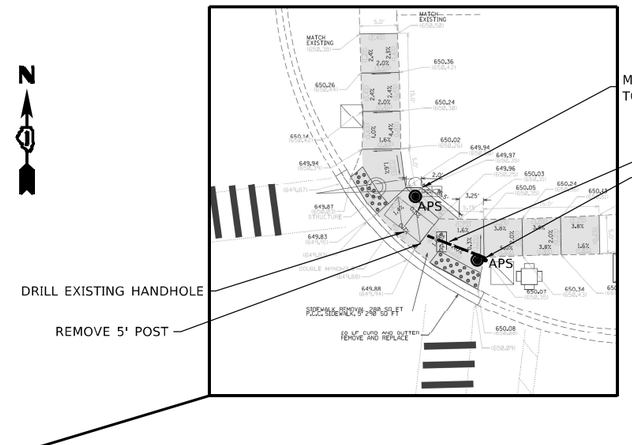
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31C
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: S:\VP\Design\Bayer-Clayton\03 DESIGN 62R17\APS\APS-MT Prospect Rd CABLE PLAN.dgn

APS-MT Prospect Rd CABLE PLAN.dgn 1/27/2023 1:20:51 PM User=Clayton.Bayer







REMOVAL AND RELOCATION 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
3	EACH	5' POST

NOTES:

1. REMOVE EXISTING PUSH BUTTONS AND ASSOCIATED WIRES.

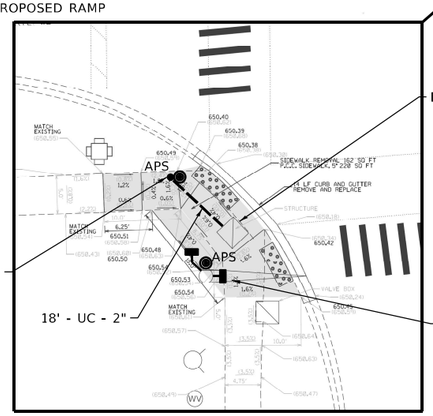
2. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS OR NEW STANDALONE POSTS WITH NEW NO. 14 2C WIRE.

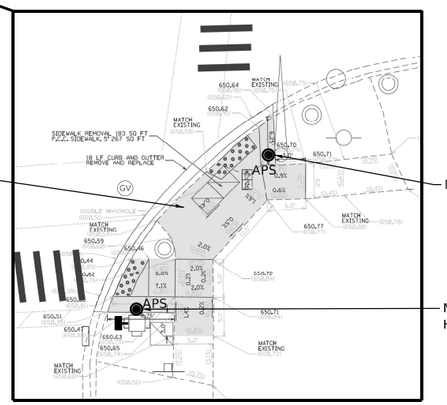
3. THIS PLAN IS FOR THE REMOVAL OF PUSH BUTTONS, INSTALLATION OF APS PUSH BUTTON AND PEDESTRIAN COUNTDOWN TIMERS, AND REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.

4. ADD PEDESTRIAN PHASES FOR NEW CROSSINGS ON WEST AND SOUTH APPROACHES.

5. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATONS)

6. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.





TS 4130

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN ALGONQUIN RD AND WOLF RD

SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

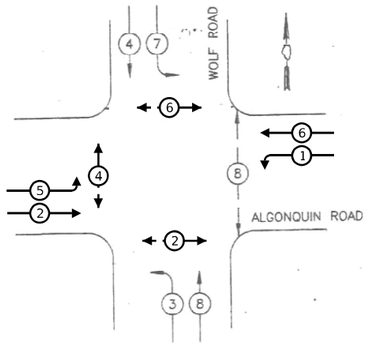
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31D
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

MODEL: Default
FILE NAME: S:\WP\Design\Bayer.Clayton\03 DESIGN 62R17\APS\APS-Wolf Rd.dgn

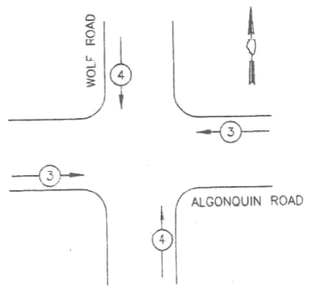
APS-Wolf Rd.dgn 1/26/2023 9:10:11 PM User=Clayton.Bayer

F. A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK		
STA.		TO STA.		
FED. ROAD DISTRICT	ILLINOIS	FED. AID PROJECT		

CONTROLLER SEQUENCE



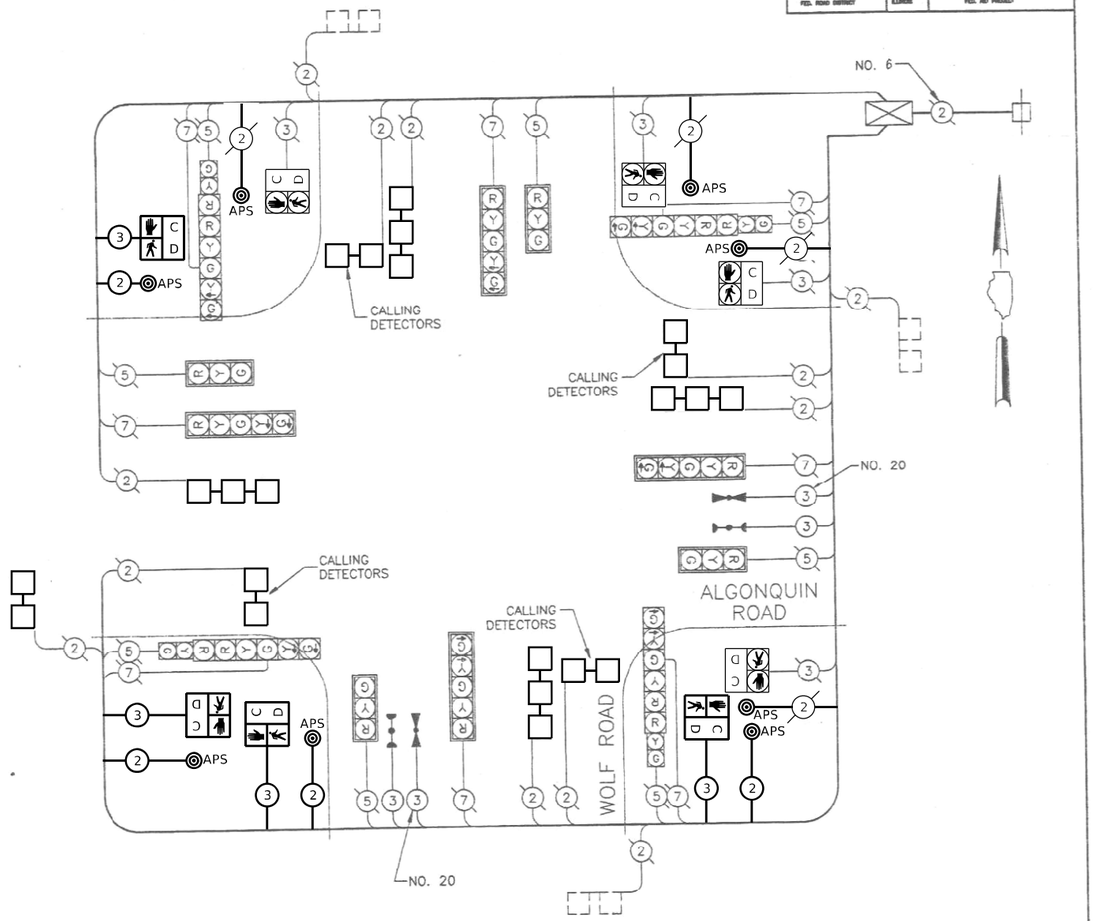
EMERGENCY VEHICLE PREEMPTION SEQUENCE



LEGEND

- DUAL ENTRY PHASE
- SINGLE ENTRY PHASE
- OL — OVERLAP
- PEDESTRIAN MOVEMENT
- * — NUMBER REFERS TO ASSOCIATED PHASE

PHASE DESIGNATION DIAGRAM



CABLE PLAN
NOT TO SCALE

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	11	50	88.0
(YELLOW)	16	20	5	16.0
(GREEN)	16	12	45	86.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	8	20	100	160.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	-	25	5	-
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	491.4

ENERGY COSTS TO:

VILLAGE OF DES PLAINES
1111 JOSEPH J SCHAWB RD
DES PLAINES, IL 60016

ENERGY SUPPLY: CONTACT: _____
PHONE: _____
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 00231-66109

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	78
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	876
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	884
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE I	FOOT	730
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	38
PEDESTRIAN SIGNAL POST, 5 FT	EACH	4
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 4130

MODEL: Default
FILE NAME: S:\WP\Design\Bayer.Clayton\003 DESIGN 62R17\APS\APS-Wolf Rd CABLE PLAN.dgn

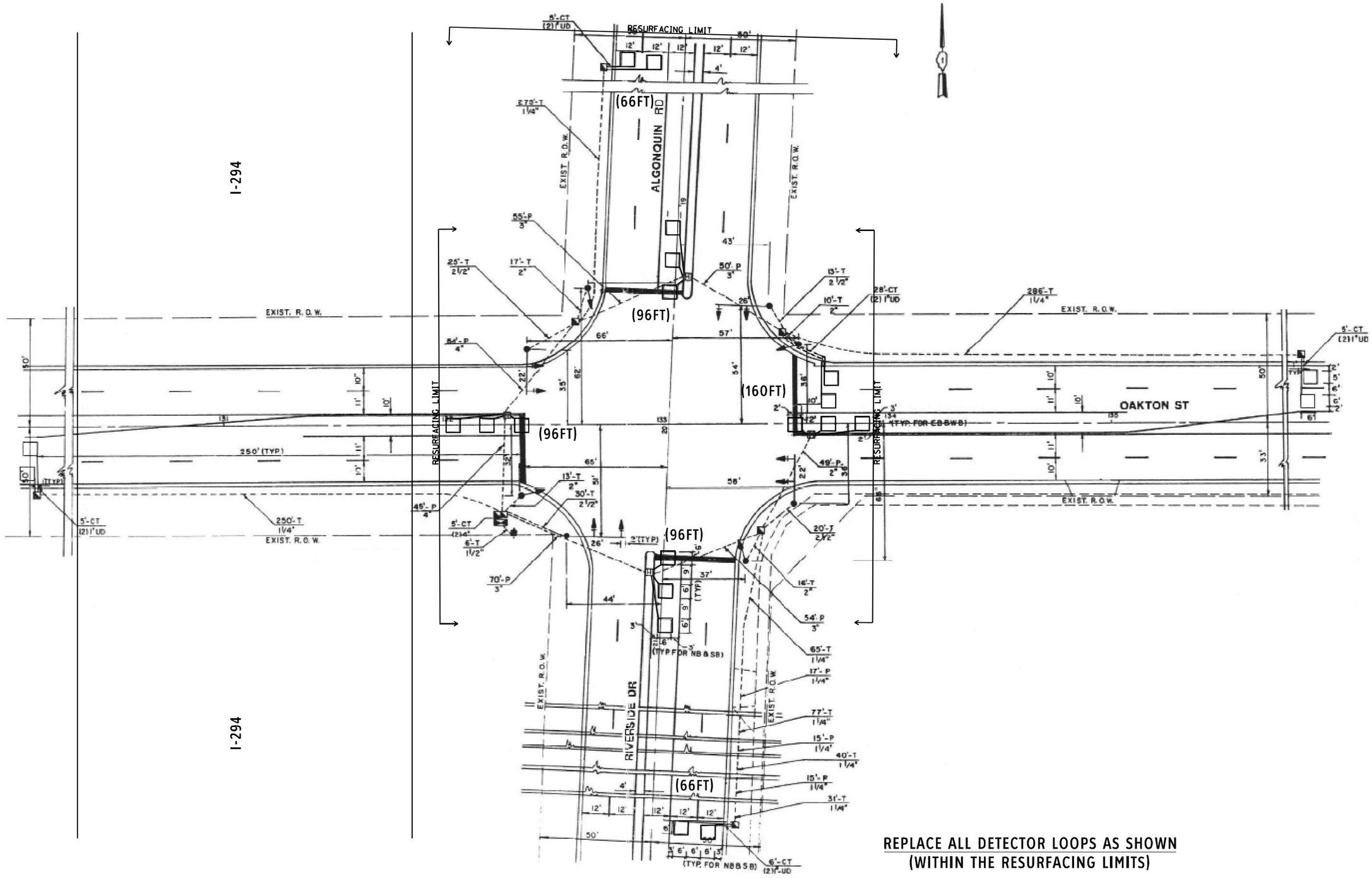
USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPTION SEQUENCE ALGONQUIN RD AND WOLF RD

SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31E
		CONTRACT NO. 62R17		
	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	580	FOOT

TS#4125

USER NAME = mezag	DESIGNED - Steven M. Nguyen	REVISED -	
	DRAWN - Gonzalo Meza	REVISED -	
PLOT SCALE = 40.0000 ' / in.	CHECKED - Steven M. Nguyen	REVISED -	
PLOT DATE = 7/14/2022	DATE - 07/06/2022	REVISED -	

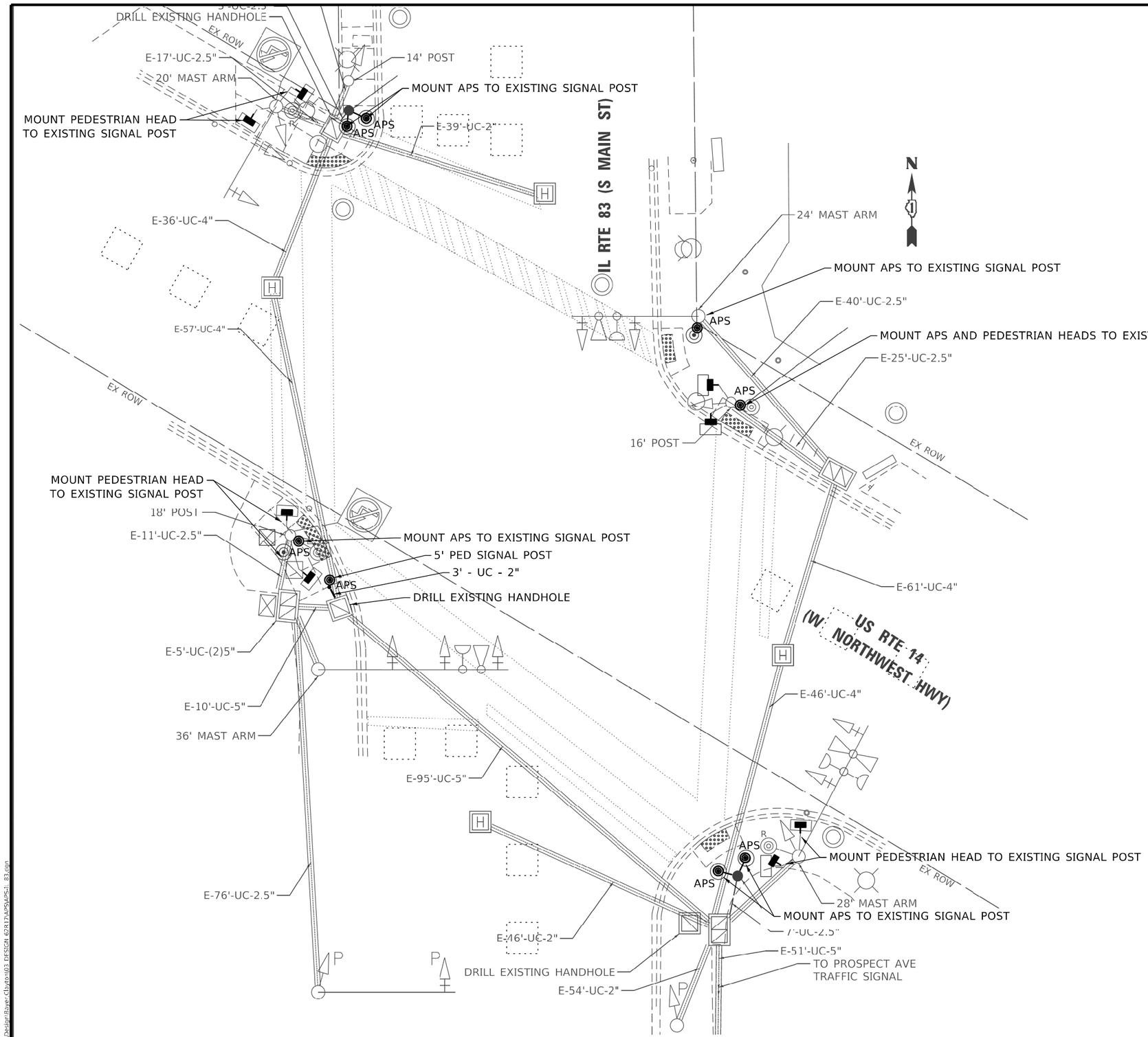
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN
ALGONQUIN RD. AT OAKTON ST.

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	21 RS	COOK	63	31F
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWIDOT Documents\IDOT Offices\District 1\Projects\Traffic\CADData\Traffic\Detector Loops\PDF\Cook\62R17 (Algonquin Rd)\CAD\STS4125 Algonquin Rd. @ Oakton St.dgn



REMOVAL AND RELOCATION 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.

8	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	PEDESTRIAN HEADS

NOTES:

1. REMOVE EXISTING PUSH BUTTONS AND PEDESTRIAN HEADS.

2. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS WITH EXISTING NO. 14 2C WIRE. FOR NEW STANDALONE POSTS, USE NEW NO. 14 2C WIRE.

3. INSTALL NEW PEDESTRIAN COUNTDOWN TIMERS WITH EXISTING NO. 14 3C WIRES.

TS 9630

MODEL: Default
FILE NAME: S:\VA\Design\Bayer-Clayton\03 DESIGN 62R17\APS\PSEL 83.dgn

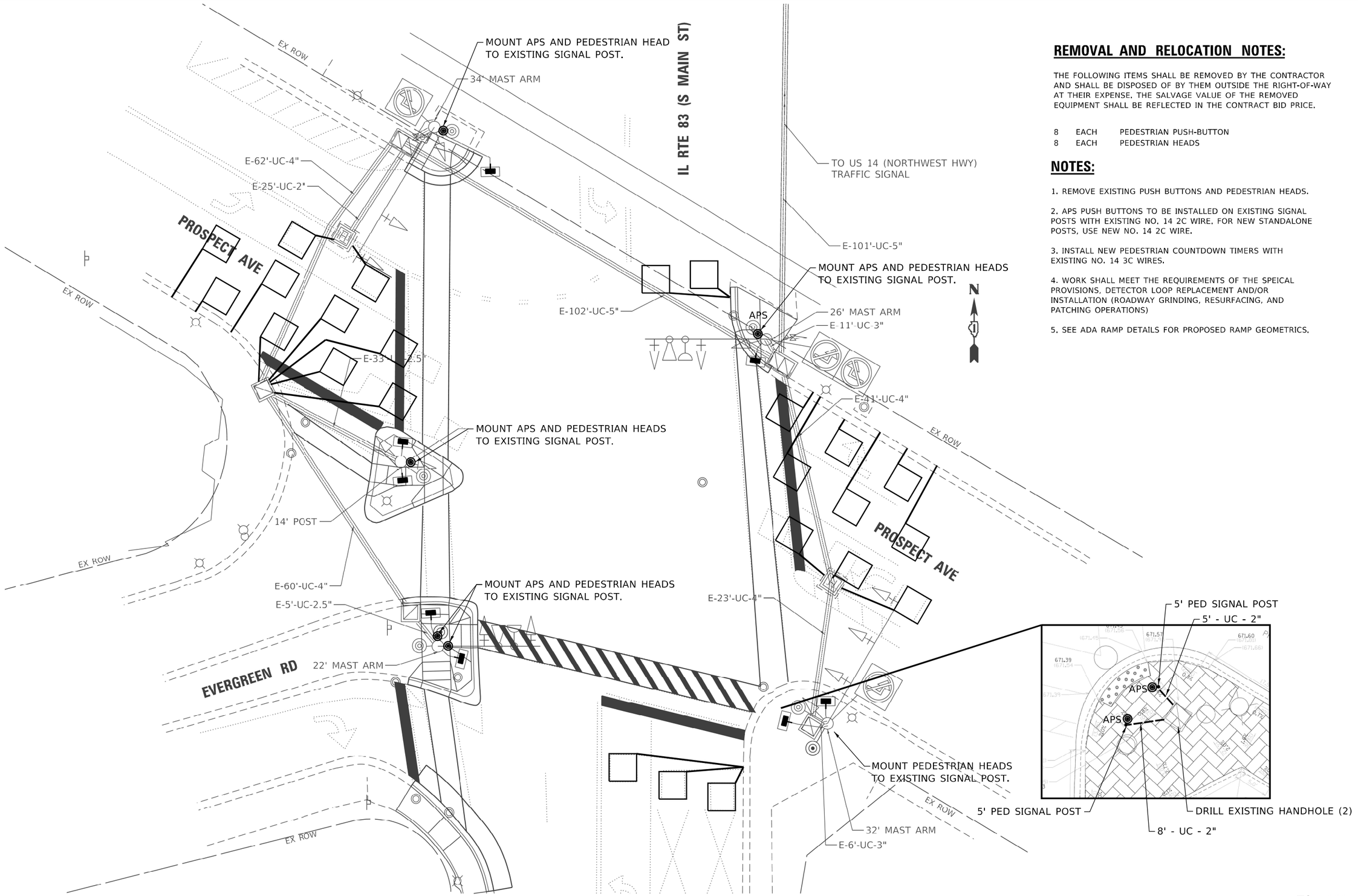
USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
US RTE 14 (NORTHWEST HWY AND IL RTE 83 (MAIN ST)

SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31G
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



REMOVAL AND RELOCATION 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.

8	EACH	PEDESTRIAN PUSH-BUTTON
8	EACH	PEDESTRIAN HEADS

NOTES:

1. REMOVE EXISTING PUSH BUTTONS AND PEDESTRIAN HEADS.

2. APS PUSH BUTTONS TO BE INSTALLED ON EXISTING SIGNAL POSTS WITH EXISTING NO. 14 2C WIRE. FOR NEW STANDALONE POSTS, USE NEW NO. 14 2C WIRE.

3. INSTALL NEW PEDESTRIAN COUNTDOWN TIMERS WITH EXISTING NO. 14 3C WIRES.

4. WORK SHALL MEET THE REQUIREMENTS OF THE SPEICAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS)

5. SEE ADA RAMP DETAILS FOR PROPOSED RAMP GEOMETRICS.

TS 9630

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -
	DRAWN - CLAYTON BAYER	REVISED - -
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
US RTE 14 (NORTHWEST HWY AND PROSPECT AVE

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31H
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

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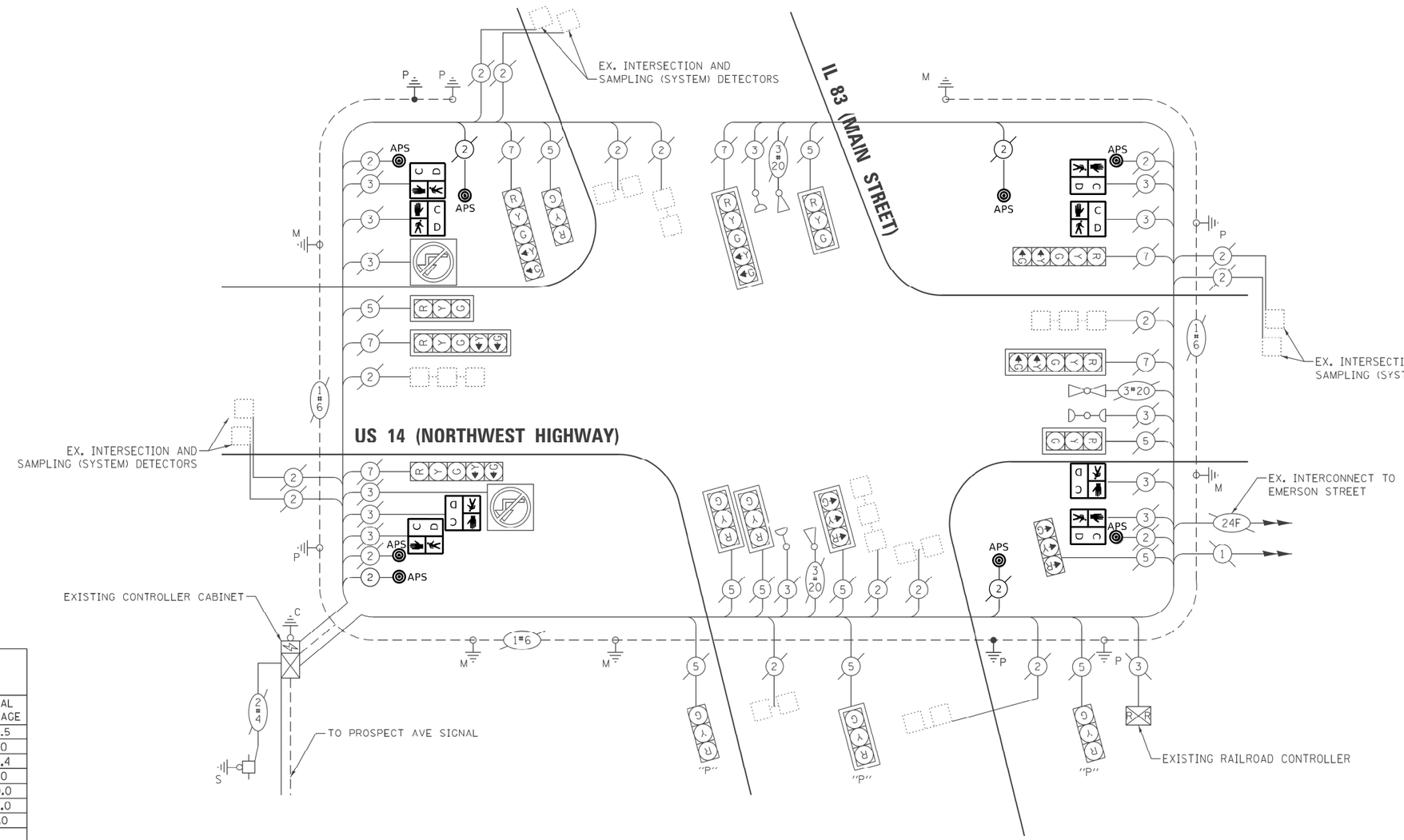

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	31	11	50	170.5
(YELLOW)	31	20	5	31.0
(GREEN)	31	12	45	167.4
PERMISSIVE ARROW	16	10	10	16.0
PED. SIGNAL	16	20	100	320.0
CONTROLLER	1	100	100	100.0
UPS	1	25	100	25.0
VIDEO SYSTEM	-	150	100	-
BLANK-OUT SIGN	6	25	5	7.5
FLASHER	-	-	50	-
STREET NAME SIGN	-	120	50	-
LUMINAIRE	-	-	-	-
			TOTAL =	837.4

ENERGY COSTS TO:

VILLAGE OF MOUNT PROSPECT
30 S. EMERSON STREET
MOUNT PROSPECT, IL 60056

ENERGY SUPPLY: CONTACT: DAVE SCHACHT
PHONE: (630) 437-2129
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: ---

CABLE PLAN
(NOT TO SCALE)

TS 9630
ECON 197

MODEL: Default
FILE NAME: S:\WP\Design\Bayer.Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/26/2023	DATE - 1/26/2023	REVISED - -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPT SEQUENCE US RTE 14 (NW HWY) AND IL RTE 83 (MAIN ST)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

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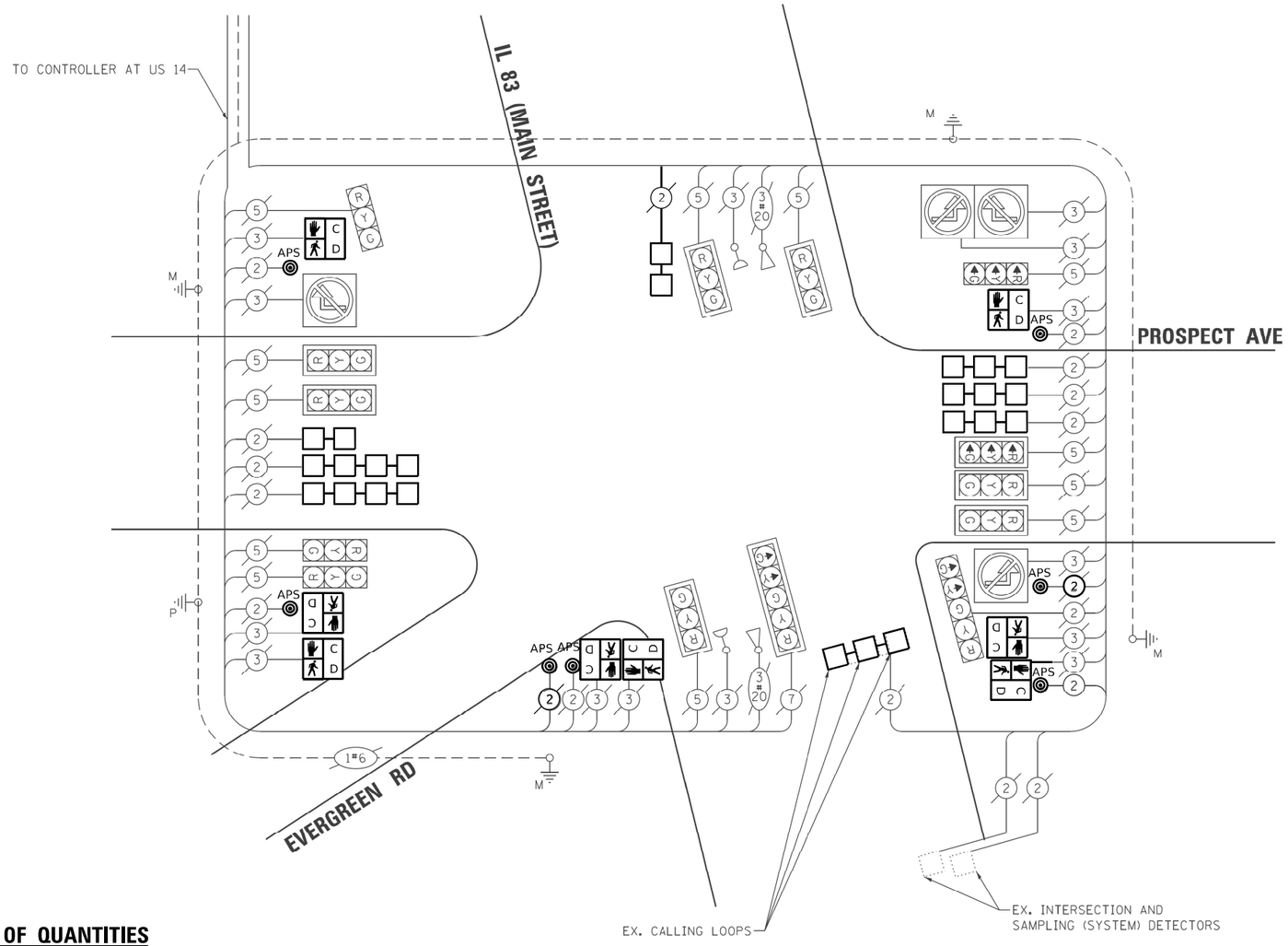


SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	EACH	16
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	705
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	16
DETECTOR LOOP, TYPE I	FOOT	601
PEDESTRIAN SIGNAL POST, 5 FT	EACH	3
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	15
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

CABLE PLAN
(NOT TO SCALE)

TS 9630
ECON 197

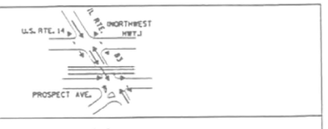
MODEL: Default
FILE NAME: S:\WP\Design\Bayer-Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -	

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY VEHICLE PREEMPT SEQUENCE US RTE 14 (NW HWY) AND PROSPECT AVE

SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31J
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		



SEQUENCE OF OPERATION (CONTINUED NEXT SHEET)

MOVEMENT										
PHASE	1+5				1+6			2+5		
INTERVAL	1	2	3	4	5	6	7	8	9	10
CHANGE TO	/	1+6	2+5	2+6	⊖ /	⊖ /	2+6	⊖ /	⊖ /	2+6
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	G	G	G
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R ◄G	R ◄Y	R ◄G	R ◄Y	R	R	R	G ◄G	G ◄G	G ◄Y
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	G	G	G	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R ◄G	R ◄G	R ◄Y	R ◄Y	G ◄G	G ◄G	G ◄Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	•P	••FH	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	•P	••FH	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H

MOVEMENT													
PHASE	2+6												
INTERVAL	11	12	13A	13B	14A	14B	14C	15A	15B	15C	15D	15E	15F
CHANGE TO	/	/	4+7		4+8			3, 12					
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	G	G	Y	R	Y	R	R	Y	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	G	G ◄G	G ◄G	G ◄G
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	G	G	G	Y	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G ◄G	G ◄G	G ◄G	G ◄G	Y	R
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	•P	••FH	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	•P	••FH	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H

MOVEMENT												
PHASE	4+7											
INTERVAL	16	17	18A	18B	19A	19B	19C	19D	19E	19F	20A	20B
CHANGE TO	⊖ /	⊖ /	4+8		3, 12						1+5 1+6 2+5 2+6	
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	G	G	G	G	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	G	G ◄G	G ◄G	G ◄G	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	G	G	G	G	Y	R	R	R	R	R	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	◄G	◄G	◄Y	◄R	◄Y	◄R	◄R	◄R	◄R	◄R	◄Y	◄R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	G	G	Y	R	R	R	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	Y	R	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	Y	R	G ◄G	G ◄G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H

MOVEMENT												
PHASE	4+8											
INTERVAL	21	22	23A	23B	23C	23D	23E	23F	24A	24B	24C	24D
CHANGE TO	/	/	3, 12						2+5, 2+6 1+5, 1+6			
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 E/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B FAR RIGHT MAST ARM SIGNAL	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 W/B END MAST ARM AND FAR LEFT SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	G	G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 N/B END MAST ARM AND FAR LEFT SIGNALS	G	G	G	G	G ◄G	G ◄G	G ◄G	G ◄G	G	G	Y	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	G	G	Y	R	R	R	R	R	Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 S/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) S/B OPTICALLY PROGRAMMED SIGNALS	G	G	G	G	Y	R	R	R	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) E/B END MAST ARM AND FAR LEFT SIGNALS	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) W/B ALL SIGNALS	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE N/B ALL SIGNALS	G	G	Y	R	R	R	R	R	Y	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B FAR RIGHT MAST ARM SIGNAL	G	G	G	G	G	G	Y	R	G	G	G	G
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. S/B END MAST ARM AND FAR LEFT SIGNALS	G	G	G	G	G ◄G	G ◄G	Y	R	G	G	G	G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	•P	••FH	H	H	H	H	H	H	H	H	H	H

* TO APPEAR ONLY UPON PUSHBUTTON ACTIVATION

** FLASHING "✋" IS TO TERMINATE AT THE COMPLETION OF THE PEDESTRIAN INTERVAL CLEARANCE.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

⊖ THIS "🚶" OR FLASHING "✋" INTERVAL MAY FINISH TIMIMG IN THE BIDIRECTIONAL STRAIGHT THROUGH MOVEMENT IF THE LEFT ARROW TIME IS NOT SUFFICIENT TO COMPLETE "🚶" OR FLASHING "✋" INTERVALS. "🚶" AND FLASHING "✋" TIMINGS TO BE SET ONLY ON PHASES WHERE "🚶" AND FLASHING "✋" ARE INDICATED IN THE SEQUENCE OF OPERATION.

PHASE 2+6 SHALL BE PLACED ON REACLL

MODEL: Default
FILE NAME: S:\WP\Design\Bayer,Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -
	DRAWN - CLAYTON BAYER	REVISED - -
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SEQUENCE OF OPERATION
US RTE 14 (NW HWY) AT IL 83 (MAIN ST) AND PROSPECT AVE
SHEET 1 OF 2

SCALE: ______ SHEET __ OF __ SHEETS STA. ______ TO STA. ______

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31K
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

APS-IL 83 CABLE PLAN.dgn 1/27/2023 1:09:53 PM User=Clayton.Bayer

SEQUENCE OF OPERATION (CONTINUED)

MOVEMENT														FLASH
PHASE	3							12						
INTERVAL	25	26A	26B	27A	27B	27C	27D	28	29	30A	30B	30C	30D	
CHANGE TO		12		1+5 2+5 1+6 2+6						1+5, 1+6 2+5, 2+6				
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL N/B	G	G	G	G	G	Y	R	G	G	G	G	Y	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS N/B	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	Y	R	G ◄ G	G ◄ G	G ◄ G	G ◄ G	Y	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS S/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS E/B	G	G	G	Y	R	R	R	G	G	Y	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS E/B	◄ G	◄ Y	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) ALL SIGNALS W/B	R	R	R	R	R	R	R	G	G	Y	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE ALL SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	H	DARK
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	•P	**FH	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	

△ RAILROAD PREEMPTION SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY AN EMERGENCY VEHICLE INTERVAL (IF APPLICABLE) AFTER RAILROAD PREEMPTION INTERVAL 5 IS TERMINATED.

NLT = "NO LEFT TURN" OR

NRT = "NO RIGHT TURN" OR

RAILROAD PREEMPTION SEQUENCE OF OPERATION

																PREEMPTOR NUMBER 3		PREEMPTOR NUMBER 4		PREEMPTOR NUMBER 5		PREEMPTOR NUMBER 2				
CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1		5		8		11		16		21		25		28											
CHANGE FROM EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER																2		3		4						
RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	2	3	4	5	CLEAR TO NORMAL SEQUENCE
CHANGE TO RAILROAD PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1B	2	1D	2	1F	2	1H	2	1K	2	1M	2	1P	2	1R	2	1T	2	1V	2	1X	2	3	4	5		
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL E/B	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS E/B	R ◄ Y	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL W/B	R	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
U.S. RTE. 14 (NORTHWEST HWY.) AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS W/B	R ◄ Y	R	Y	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	G	G	G	G	G	G	R	R	R	R	G	G	G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	G	G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	R	R	R	R	G	G	G ◄ G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	△
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS S/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	△
ILL. RTE. 83 (MAIN ST.) (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS S/B	Y	R	Y	R	Y	R	Y	R	Y	R	Y	R	R	R	R	R	Y	R	Y	R	Y	R	R	R	R	R	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	Y	R	R	R	R	R	R	R	R	R	R	G	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS E/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	△
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) ALL SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	R	G	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVENUE ALL SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	R	R	R	R	Y	R	R	R	R	R	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL S/B	G	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	G	G	G	G	G	G	G	Y	R	R	△
ILL. RTE. 83 (MAIN ST.) AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS S/B	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G ◄ G	G	G	R	R	R	R	G ◄ C	G ◄ C	G ◄ C	G ◄ C	G	G	G ◄ C	Y	R	R	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	FH	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	FH	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	△
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS AT U.S. 14 / IL. RTE. 83	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
INTERNALLY ILLUMINATED NO RIGHT TURN SIGNS AT PROSPECT AVE. / IL RTE. 83	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	△
INTERNALLY ILLUMINATED NO LEFT TURN SIGNS AT PROSPECT AVE. / IL. RTE. 83	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	NLT	△
																										HOLD	

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

MODEL: Default
FILE NAME: S:\WP\Design\Bayer-Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	**STATE OF ILLINOIS** **DEPARTMENT OF TRANSPORTATION**	**SEQUENCE OF OPERATION** **US RTE 14 (NW HWY) AT IL 83 (MAIN ST) AND PROSPECT AVE** **SHEET 2 OF 2**	F.A.U. RTE. 3514 / SECTION FAU 3514 21 RS / COUNTY COOK / TOTAL SHEETS 63 / SHEET NO. 31L
	DRAWN - CLAYTON BAYER	REVISED - -			CONTRACT NO. 62R17
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -		SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____	ILLINOIS / FED. AID PROJECT
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -			

APS-IL 83 CABLE PLAN.dgn 1/27/2023 1:07:34 PM User=Clayton.Bayer

EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION (CONTINUED NEXT SHEET)

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER	1	1		5		5			5				8		8			8				11	11			11				16			16	16		
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	1A	1B	1C	1D	1E	1F	1G	1H	1J	1K	1L	1M	1N	1P	1Q	1R	1S	1T	1U	1V	1W	1X	1Y	1Z	1AA	1BB	1CC	1DD	1EE	1FF	1GG	1HH	1JJ	1KK	1LL	1MM
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER	2 OR 3	1C	4	1E	2	1G	1H	3	1K	1L	1M	4	1P	2	1R	1S	3	1U	1V	1W	4	2	1Z	1AA	3	1CC	1DD	1EE	4	1GG	1HH	2	3	1LL	1MM	4
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL E/B	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	Y	R	G	Y	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS E/B	R ◄Y	R ◄Y	R	R	R	R	R	R	R	R	R	R	G ◄G	G ◄Y	G ◄G	Y	R	G ◄G	Y	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL W/B	R	R	R	G	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS W/B	R ◄Y	R ◄Y	R	G ◄G	G ◄Y	G ◄G	Y	R	G ◄G	Y	R	R	R	R	R	R	R	R	R	R	R	G	G	Y	R	G	Y	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS S/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	Y	R	G	G	G	G
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS S/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄G	◄Y	◄R	◄G	◄G	◄Y	◄R
ILL. RTE. 83 (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS S/B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS E/B	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R	◄R
PROSPECT AVE. AT ILL. RTE. 83 ALL SIGNALS W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT PROSPECT AVENUE ALL SIGNALS N/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R
ILL. RTE. 83 AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL S/B	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G	G
ILL. RTE. 83 AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS S/B	G ◄G	G ◄G	G ◄Y	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄G	G ◄Y	G
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14	H	H	H	FH	H	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	FH	H	H	FH	H	H	H	FH	FH	H	H	FH	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	FH	FH	H	H

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	
	DRAWN - CLAYTON BAYER	REVISED - -	
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -	
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EMERGENCY VEHICLE PREEMPTION SEQUENCE
US RTE 14 (NW HWY) AT IL 83 (MAIN ST) AND PROSPECT AVE
SHEET 1 OF 2

SCALE: ______ SHEET __ OF __ SHEETS STA. ______ TO STA. ______

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31M
		CONTRACT NO. 62R17		
		ILLINOIS FED. AID PROJECT		

MODEL: Default
FILE NAME: S:\WP\Design\Bayer\Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

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EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION

CHANGE FROM NORMAL SEQUENCE OF OPERATION INTERVAL NUMBER		21				21					21	25				25		28					28			PREEMPTOR NUMBER 3	PREEMPTOR NUMBER 4	PREEMPTOR NUMBER 5	CLEAR TO NORMAL SEQUENCE
EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1NN	1PP	1QQ	1RR	1SS	1TT	1UU	1VV	1WW	1XX	1YY	1ZZ	1AAA	1BBB	1CCC	1DDD	1EEE	1FFF	1GGG	1HHH	1JJJ	1KKK	1LLL	1MMM	1NNN	2	3	4	
CHANGE TO EMERGENCY VEHICLE PREEMPTION SEQUENCE OF OPERATION INTERVAL NUMBER		1PP	1QQ	1RR	1SS	2	1UU	1VV	1WW	1XX	3	4	1AAA	1BBB	1CCC	2 OR 3	1EEE	4	1GGG	1HHH	1JJJ	1KKK	2 OR 3	1MMM	1NNN	4				
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 FAR RIGHT MAST ARM SIGNAL	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
U.S. RTE. 14 AT ILL. RTE. 83 END MAST ARM AND FAR LEFT SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	R	R	◊
ILL. RTE. 83 AT U.S. RTE. 14 FAR RIGHT MAST ARM SIGNAL	N/B	G	G	G	Y	R	G	G	G	Y	R	G	G	G	Y	R	G	G	G	G	G	Y	R	G	G	G	R	R	G	◊
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	N/B	G	G	G	Y	R	G	G	G	Y	R	G	G ◄ G	G ◄ G	Y	R	G ◄ Y	G	G ◄ G	G ◄ G	G ◄ G	Y	R	G ◄ G	G ◄ Y	G	R	R	G	◊
ILL. RTE. 83 (MAIN ST.) AT U.S. RTE. 14 NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	S/B	G	Y	R	R	R	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	◊
ILL. RTE. 83 AT U.S. RTE. 14 END MAST ARM AND FAR LEFT SIGNALS	S/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ G	◄ R	◊
ILL. RTE. 83 (NORTH OF TRACKS) OPTICALLY PROGRAMMED SIGNALS	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	G	G	◊
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) NEAR RIGHT, FAR MID AND RIGHT MAST ARM SIGNALS	E/B	R	R	R	R	R	R	R	R	R	R	R	Y	R	R	R	Y	R	G	Y	R	R	R	G	Y	R	R	R	R	◊
PROSPECT AVE. AT ILL. RTE. 83 (MAIN ST.) END MAST ARM AND FAR LEFT SIGNALS	E/B	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ Y	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◄ R	◊
PROSPECT AVE. AT ILL. RTE. 83 ALL SIGNALS	W/B	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	Y	R	G	Y	R	R	R	G	Y	R	R	R	R	◊
ILL. RTE. 83 AT PROSPECT AVENUE ALL SIGNALS	N/B	G	Y	R	R	R	G	Y	R	R	R	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G	◊
ILL. RTE. 83 AT PROSPECT AVE. FAR RIGHT MAST ARM SIGNAL	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	P	R	R	R	R	R	R	R	R	R	R	G	G	G	◊
ILL. RTE. 83 AT PROSPECT AVE. END MAST ARM AND FAR LEFT SIGNALS	S/B	G	G	G	G	G	G	G	G	G	G	G	R	R	R	R	R	R	R	R	R	R	R	R	R	R	G ◄ G	G ◄ G	G	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON NORTH SIDE OF U.S. RTE. 14		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF U.S. RTE. 14		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON EAST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING U.S. RTE. 14 ON WEST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING ILL. RTE. 83 ON SOUTH SIDE OF PROSPECT AVENUE		H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON EAST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊
PEDESTRIAN SIGNALS CROSSING PROSPECT AVENUE ON WEST SIDE OF ILL. RTE. 83		FH	H	H	H	H	FH	H	H	H	H	FH	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	H	◊

◊ EMERGENCY VEHICLE SEQUENCE SHALL PROVIDE THE PROPER CLEARANCE INTERVAL TO RESUME THE NORMAL SEQUENCE OF OPERATION OR PROPER CLEARANCE INTERVAL TO DISPLAY A DIFFERENT EMERGENCY INTERVAL AFTER EMERGENCY VEHICLE INTERVAL 2, 3 OR 4 IS TERMINATED.

P = ILLUMINATED PERSON = WALK

FH = ILLUMINATED FLASHING HAND = FLASHING DON'T WALK

H = ILLUMINATED SOLID HAND = DON'T WALK

MODEL: Default
FILE NAME: S:\VA\Design\Bayer-Clayton\03 DESIGN 62R17\APS\APS-IL 83 CABLE PLAN.dgn

USER NAME = Clayton.Bayer	DESIGNED - CLAYTON BAYER	REVISED - -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EMERGENCY VEHICLE PREEMPTION SEQUENCE US RTE 14 (NW HWY) AT IL 83 (MAIN ST) AND PROSPECT AVE SHEET 2 OF 2
	DRAWN - CLAYTON BAYER	REVISED - -		
PLOT SCALE = 40.0000 sf / in.	CHECKED - STEVEN M. NGUYEN	REVISED - -		
PLOT DATE = 1/27/2023	DATE - 1/27/2023	REVISED - -		SCALE: _____ SHEET __ OF __ SHEETS STA. _____ TO STA. _____

F.A.U RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	31N
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

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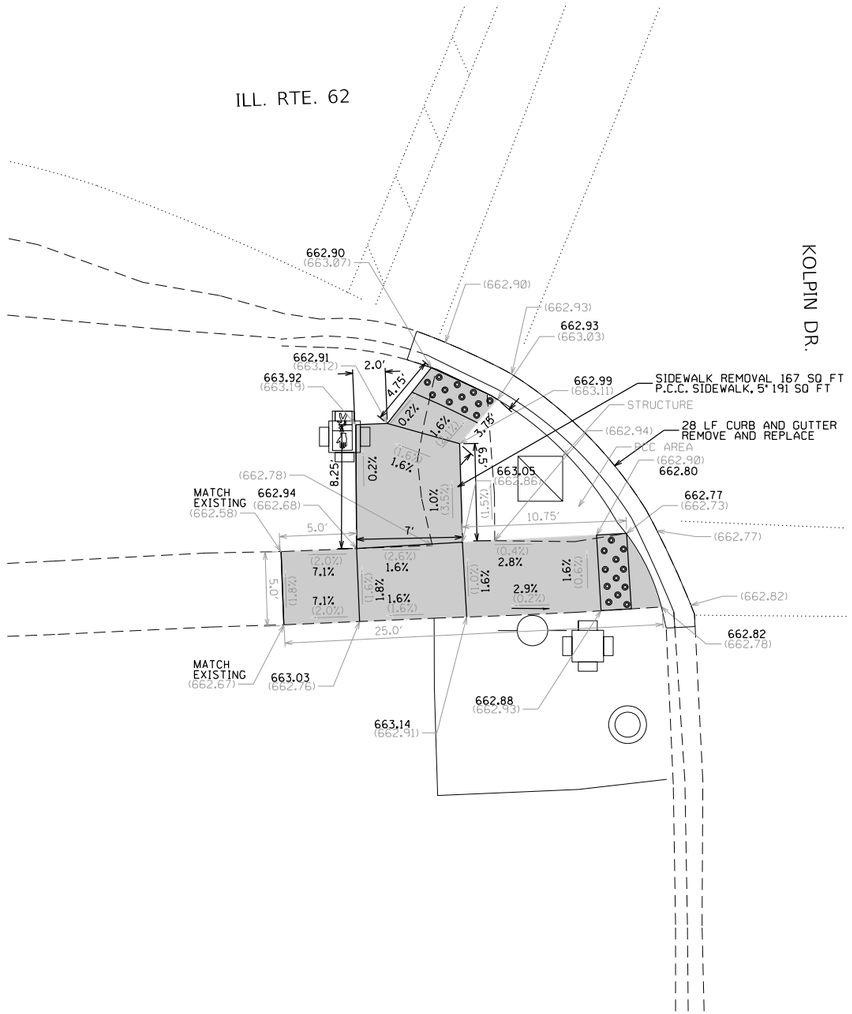

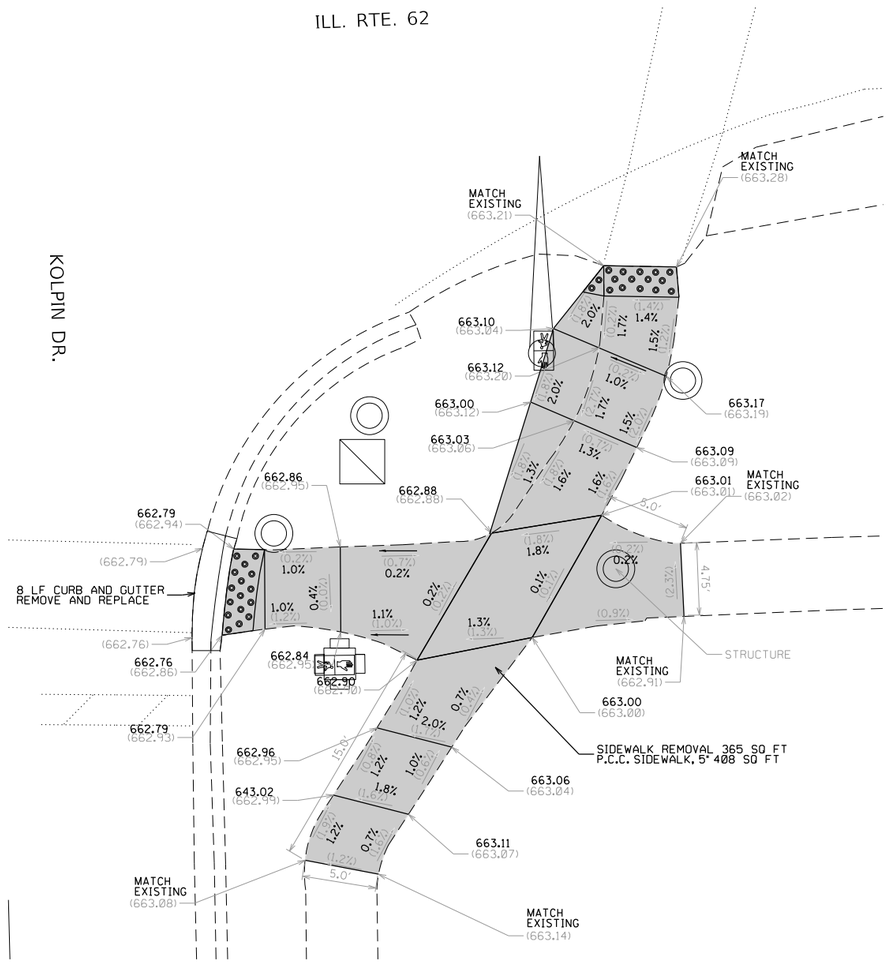

REFERENCE BENCH MARK ELEV 665.18

BENCHMARK : ARROW BOLT ON FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & KOLPIN DR.

LEGEND

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

REFERENCE BENCH MARK ELEV 665.18

BENCHMARK : ARROW BOLT ON FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & KOLPIN DR.

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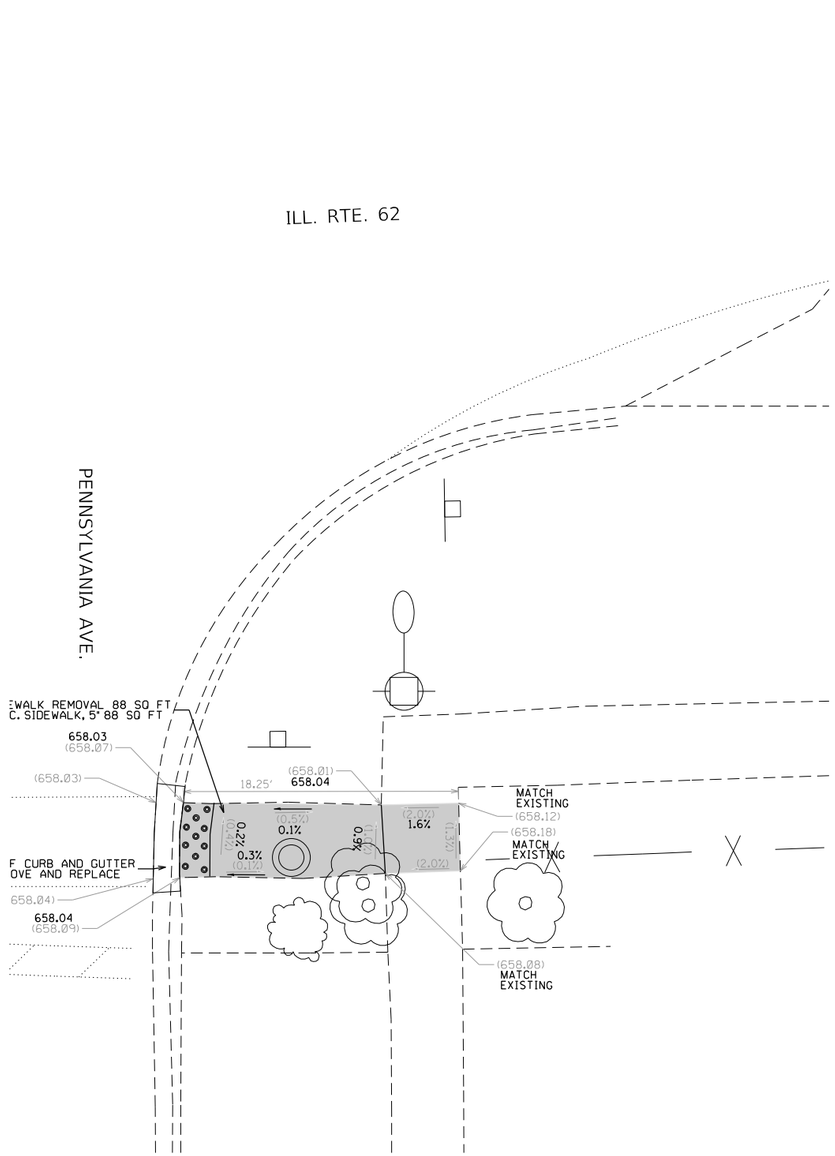
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & KOLPIN DR.)
SW & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	32
		CONTRACT NO. 62R17		
		ILLINOIS FED. AID PROJECT		



REFERENCE BENCH MARK ELEV 658.34

BENCHMARK :

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & PENNSYLVANIA AVE.

LEGEND

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

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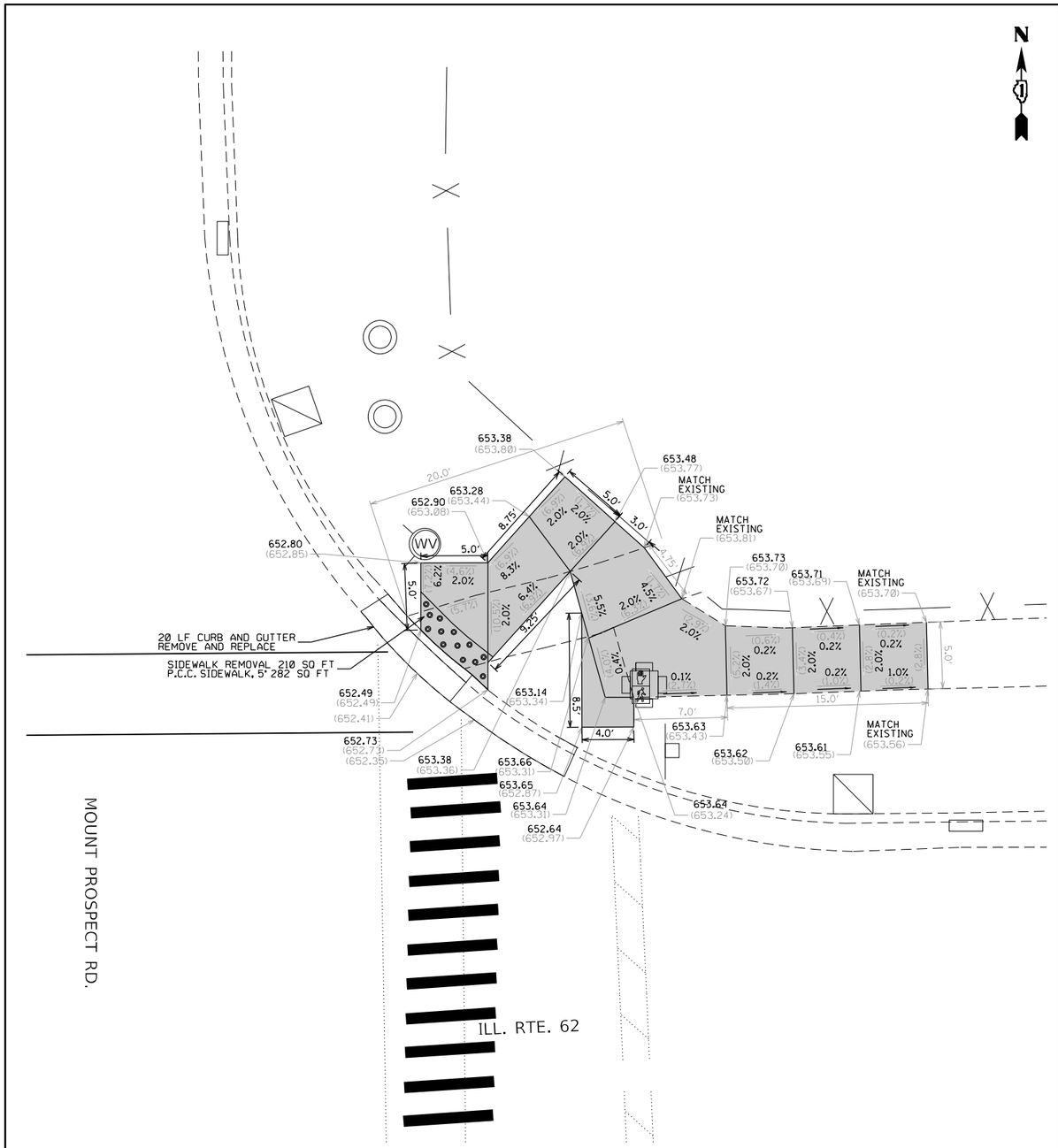
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

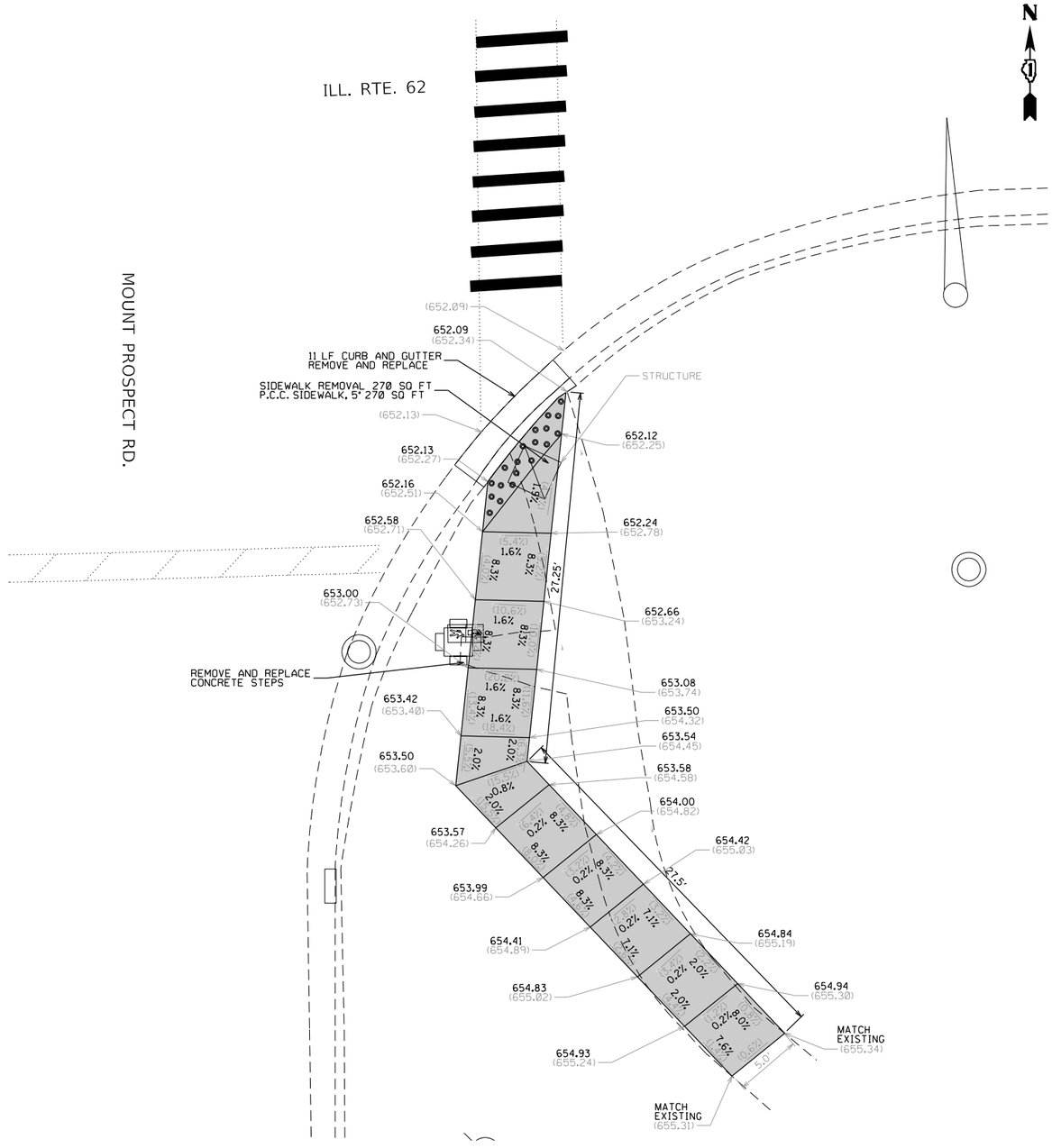
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & PENNSYLVANIA AVE)
SE CORNER

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	33
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			





REFERENCE BENCH MARK ELEV 655.09

BENCHMARK : X-CUT ON NORTHEAST BOLT OF FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & MT. PROSPECT RD.

LEGEND

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

REFERENCE BENCH MARK ELEV 655.09

BENCHMARK : X-CUT ON NORTHEAST BOLT OF FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & MT. PROSPECT RD.

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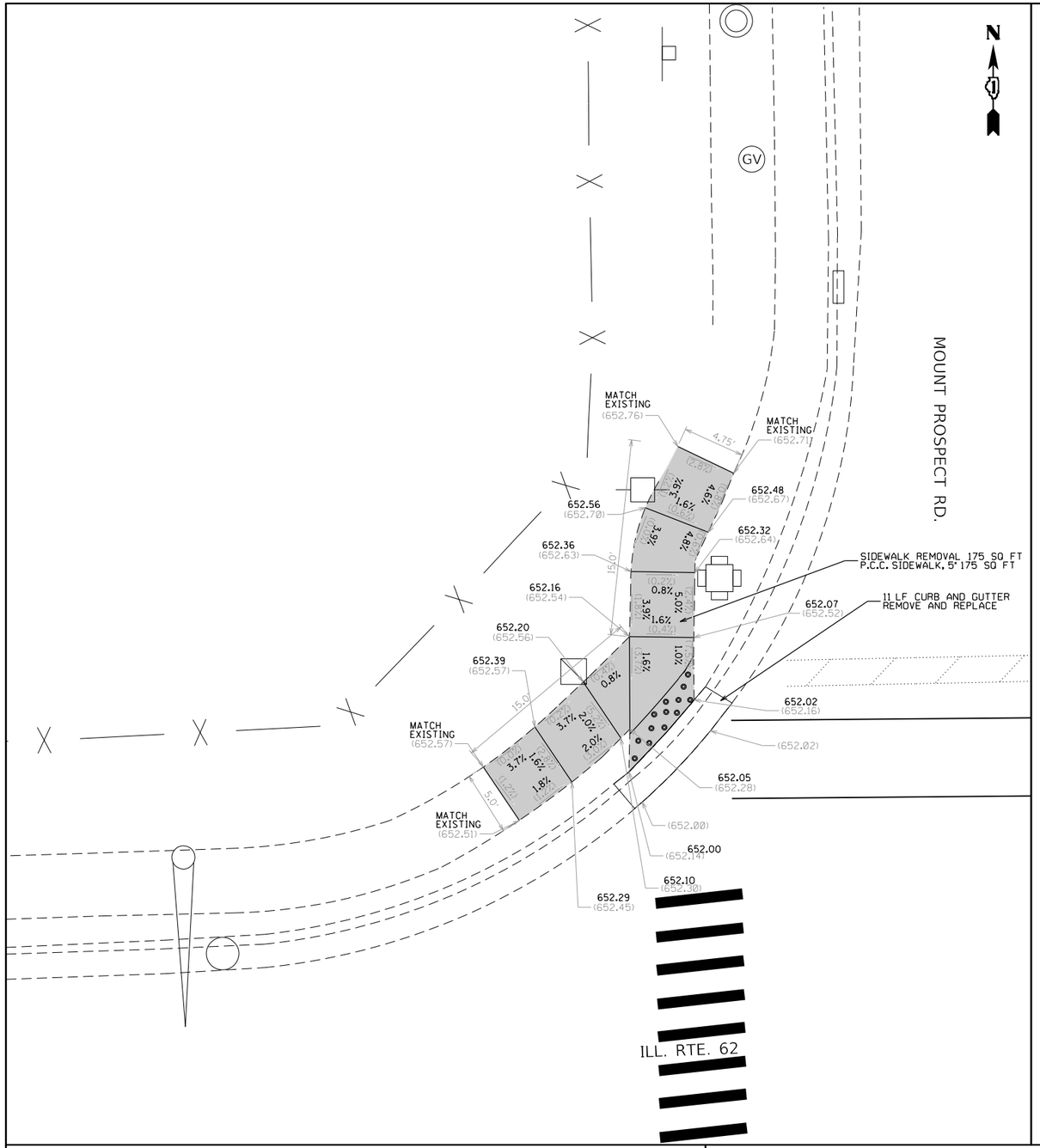
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & MT. PROSPEC)
NE & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	34
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



REFERENCE BENCH MARK ELEV 655.09

BENCHMARK : X-CUT ON NORTHEAST BOLT OF FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & MT. PROSPECT RD.

LEGEND

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

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		DRAWN -	REVISED -
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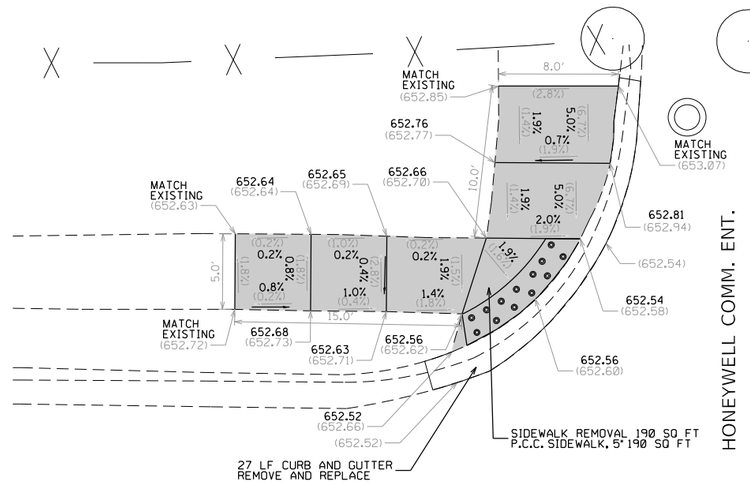
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & KOLPIN DR.)
SW & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	35
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		



ILL. RTE. 62

REFERENCE BENCH MARK ELEV 653.48

BENCHMARK : X-CUT ON NORTHWEST BOLT ON FIRE HYDRANT

LOCATION : AT THE NORTHEAST CORNER OF ALGONQUIN RD. & COMMERICIAL ENT. TO HONEYWELL CORP.

LEGEND

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

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Default		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & HONEYWELL ENT.)
NW CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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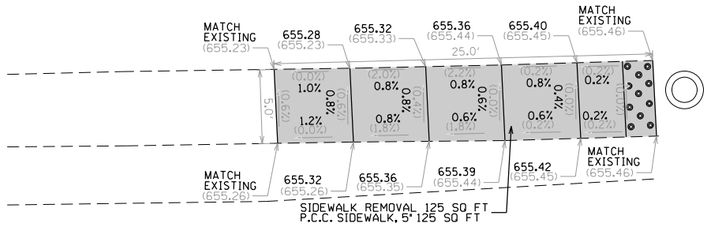
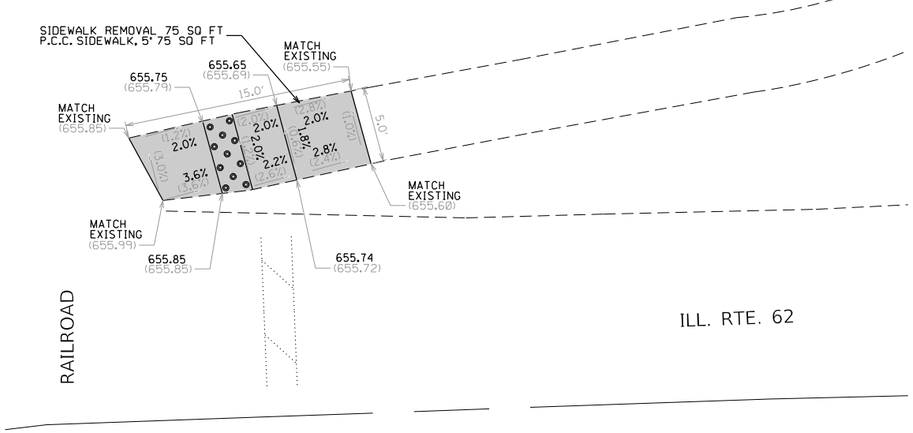
		CONTRACT NO. 62R17		
		ILLINOIS FED. AID PROJECT		





REFERENCE BENCH MARK ELEV 656.33

BENCHMARK : X-CUT ON NORTHEAST BOLT OF RAILROAD CROSSING GATE

LOCATION : AT THE SOUTHWEST SIDE OF ALGONQUIN RD. & RAILROAD CROSSING

LEGEND

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

REFERENCE BENCH MARK ELEV 656.33

BENCHMARK : X-CUT ON NORTHEAST BOLT OF RAILROAD CROSSING GATE

LOCATION : AT THE SOUTHWEST SIDE OF ALGONQUIN RD. & RAILROAD CROSSING

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & RAILROAD CROSSING)
NW & NE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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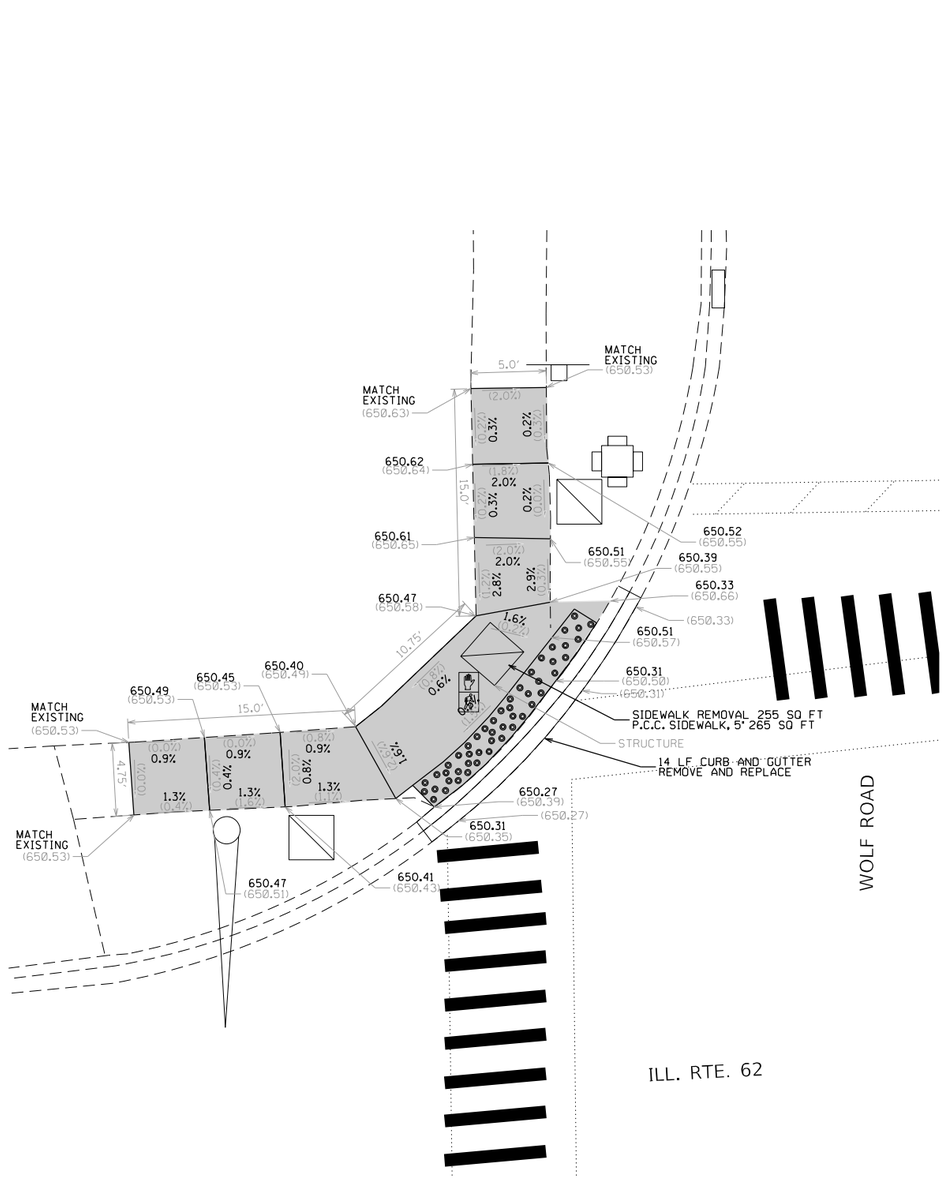
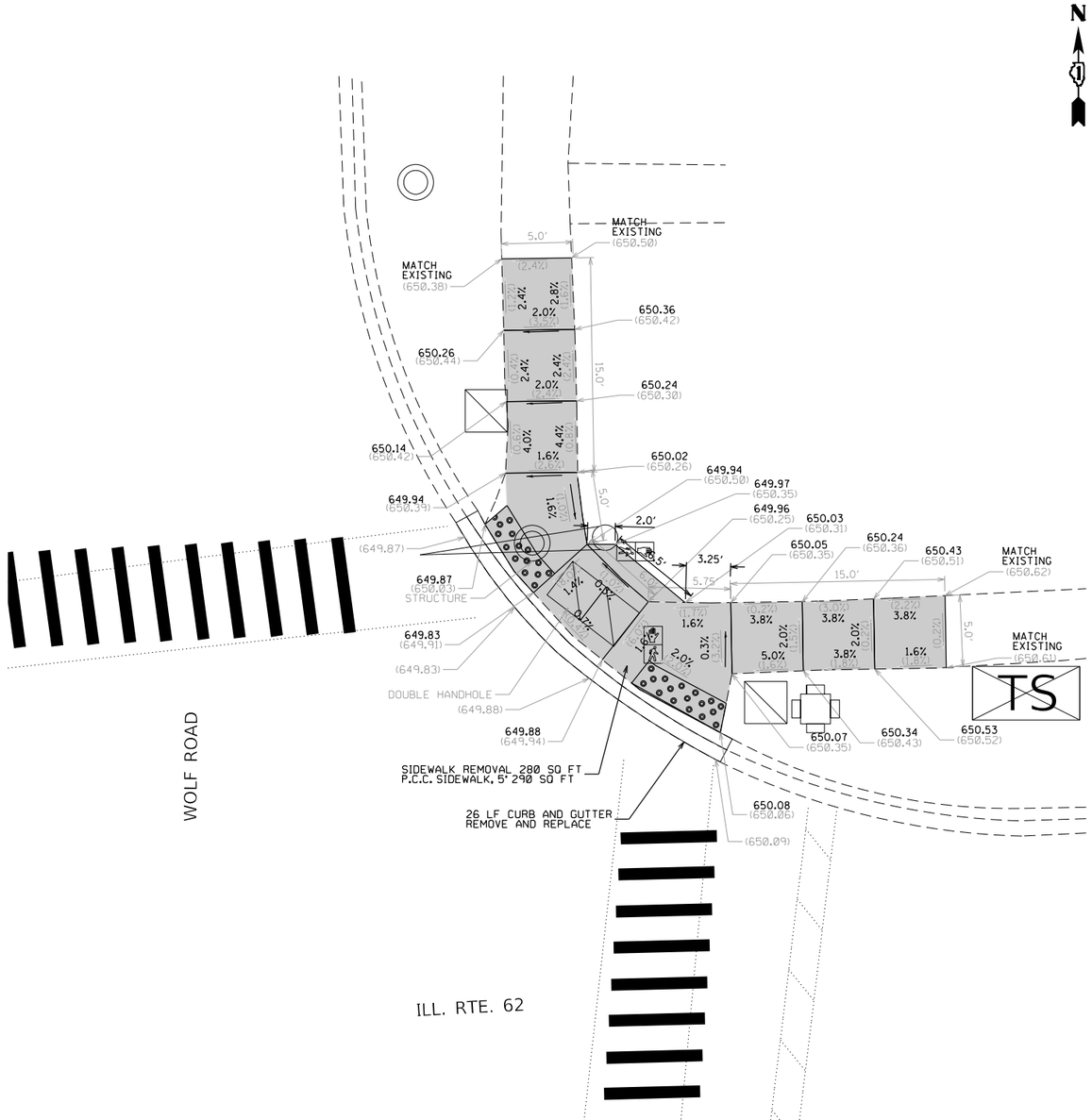
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			





REFERENCE BENCH MARK ELEV 651.11

BENCHMARK : SQUARE ON SOUTHWEST CORNER BOLT OF TCB

LOCATION : AT THE NORTHEAST CORNER OF ALGONQUIN RD. & WOLF RD.

LEGEND

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

REFERENCE BENCH MARK ELEV 651.11

BENCHMARK : SQUARE ON SOUTHWEST CORNER BOLT OF TCB

LOCATION : AT THE NORTHEAST CORNER OF ALGONQUIN RD. & WOLF RD.

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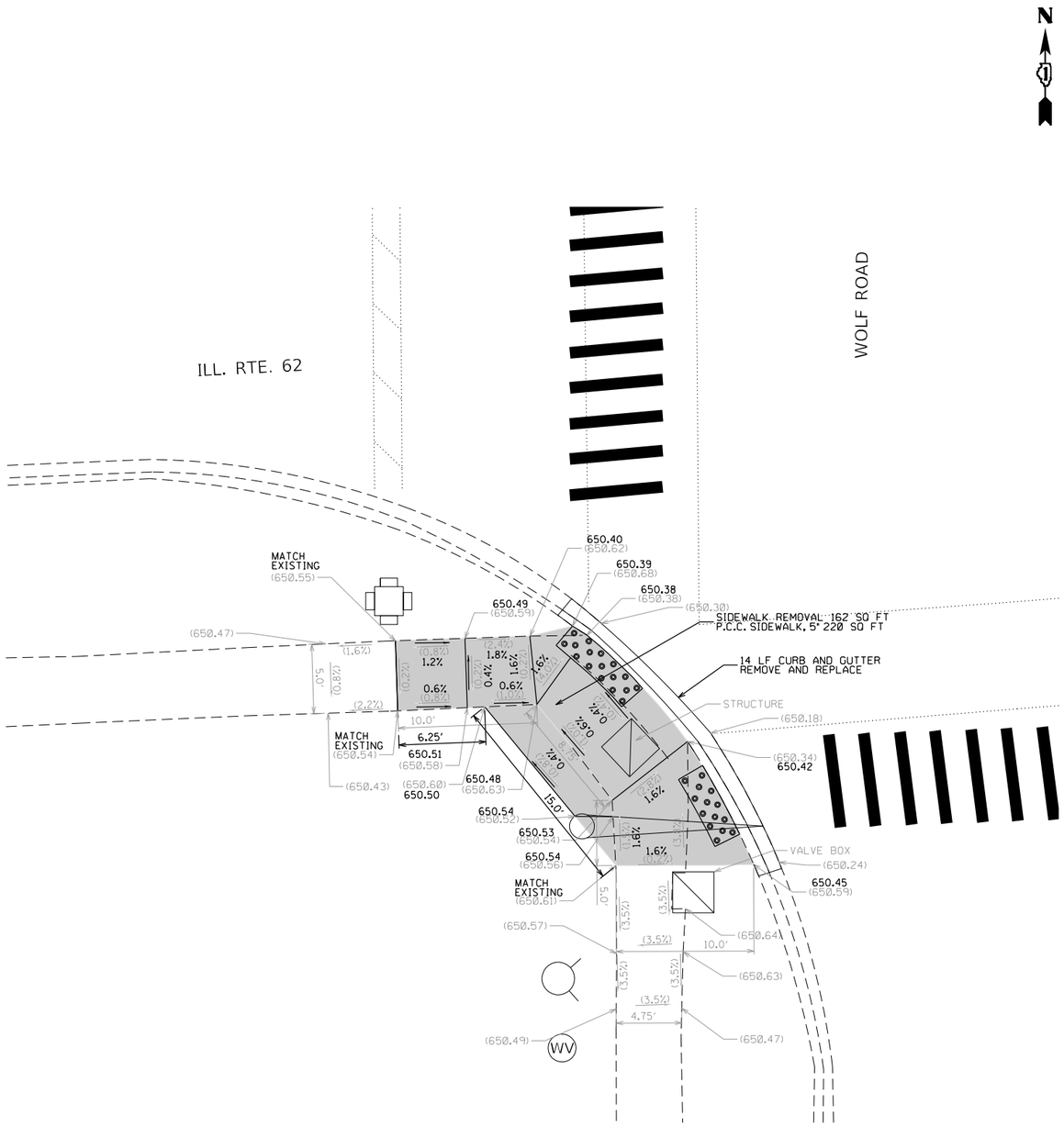
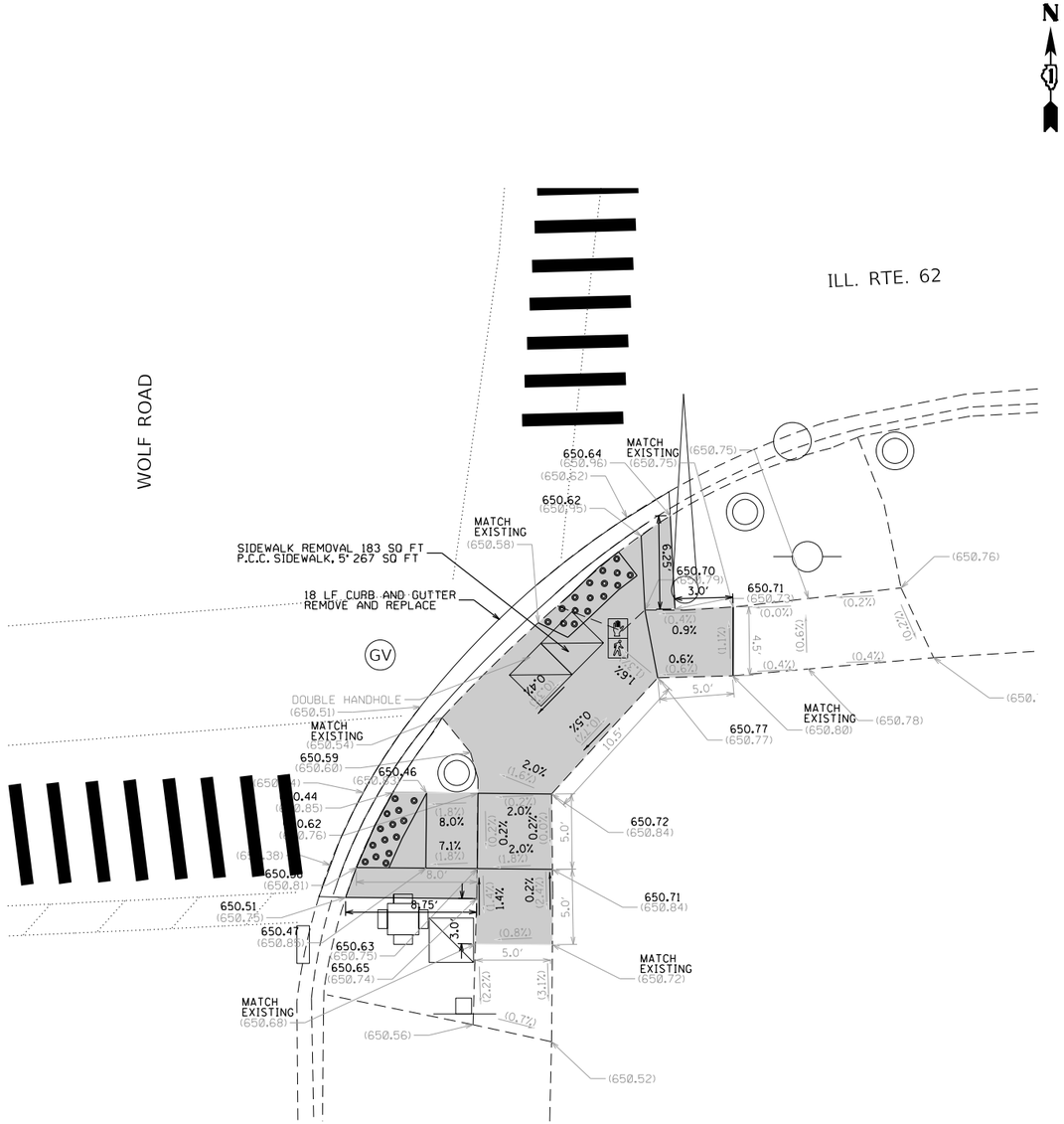
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & WOLF RD.)
NW & NE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	38
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			





REFERENCE BENCH MARK ELEV 651.11

BENCHMARK : SQUARE ON SOUTHWEST CORNER BOLT OF TCB

LOCATION : AT THE NORTHEAST CORNER OF ALGONQUIN RD. & WOLF RD.

LEGEND

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

REFERENCE BENCH MARK ELEV 651.11

BENCHMARK : SQUARE ON SOUTHWEST CORNER BOLT OF TCB

LOCATION : AT THE NORTHEAST CORNER OF ALGONQUIN RD. & WOLF RD.

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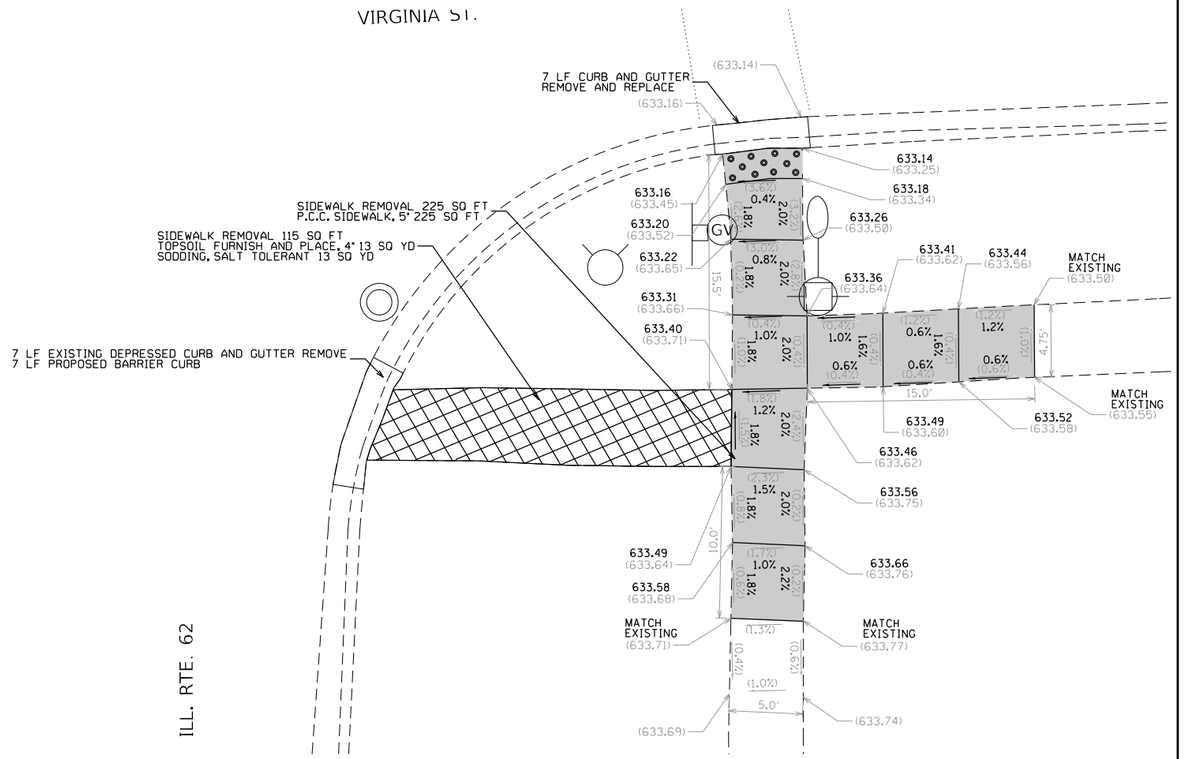
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & WOLF RD.)
SW & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	39
		CONTRACT NO. 62R17		
		ILLINOIS	FED. AID PROJECT	



REFERENCE BENCH MARK ELEV 635.52

BENCHMARK : X-CUT ON NORTHWEST BOLT ON FIRE HYDRANT

LOCATION : AT THE SOUTHEAST CORNER OF ALGONQUIN RD. & VIRGINIA ST.

LEGEND

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

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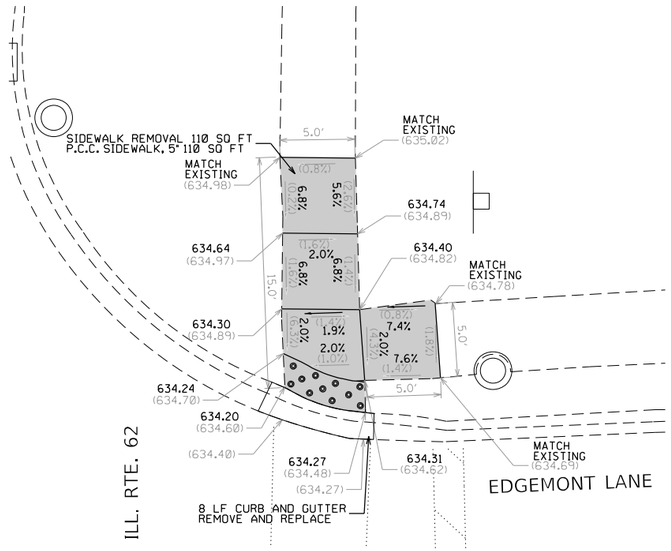
Default	PLOT DATE = 1/18/2023	DATE -	REVISED -

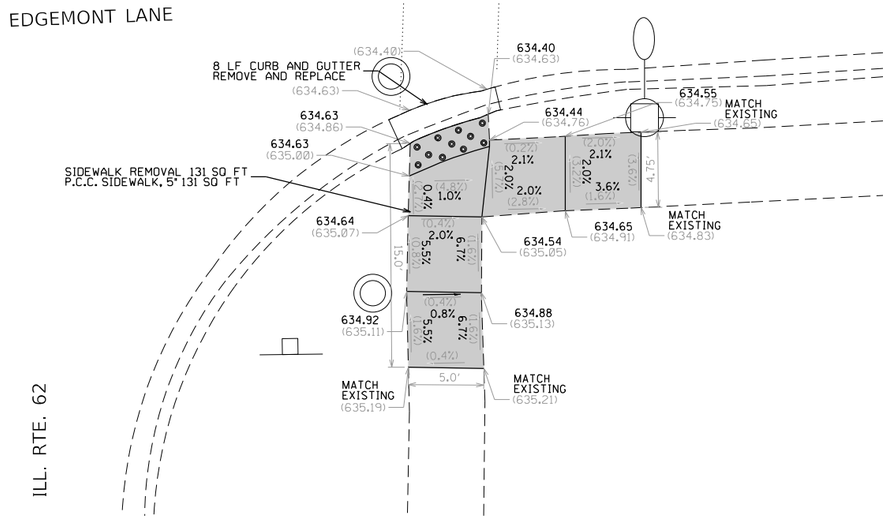
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & VIRGINIA ST)
SE CORNER

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	40
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		





REFERENCE BENCH MARK ELEV 635.13

BENCHMARK : SOUTHWEST BOLT ON FIRE HYDRANT

LOCATION : ON EDGEMONT LN. 100' +/- EAST OF ALGONQUIN RD.

LEGEND

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

REFERENCE BENCH MARK ELEV 635.13

BENCHMARK : SOUTHWEST BOLT ON FIRE HYDRANT

LOCATION : ON EDGEMONT LN. 100' +/- EAST OF ALGONQUIN RD.

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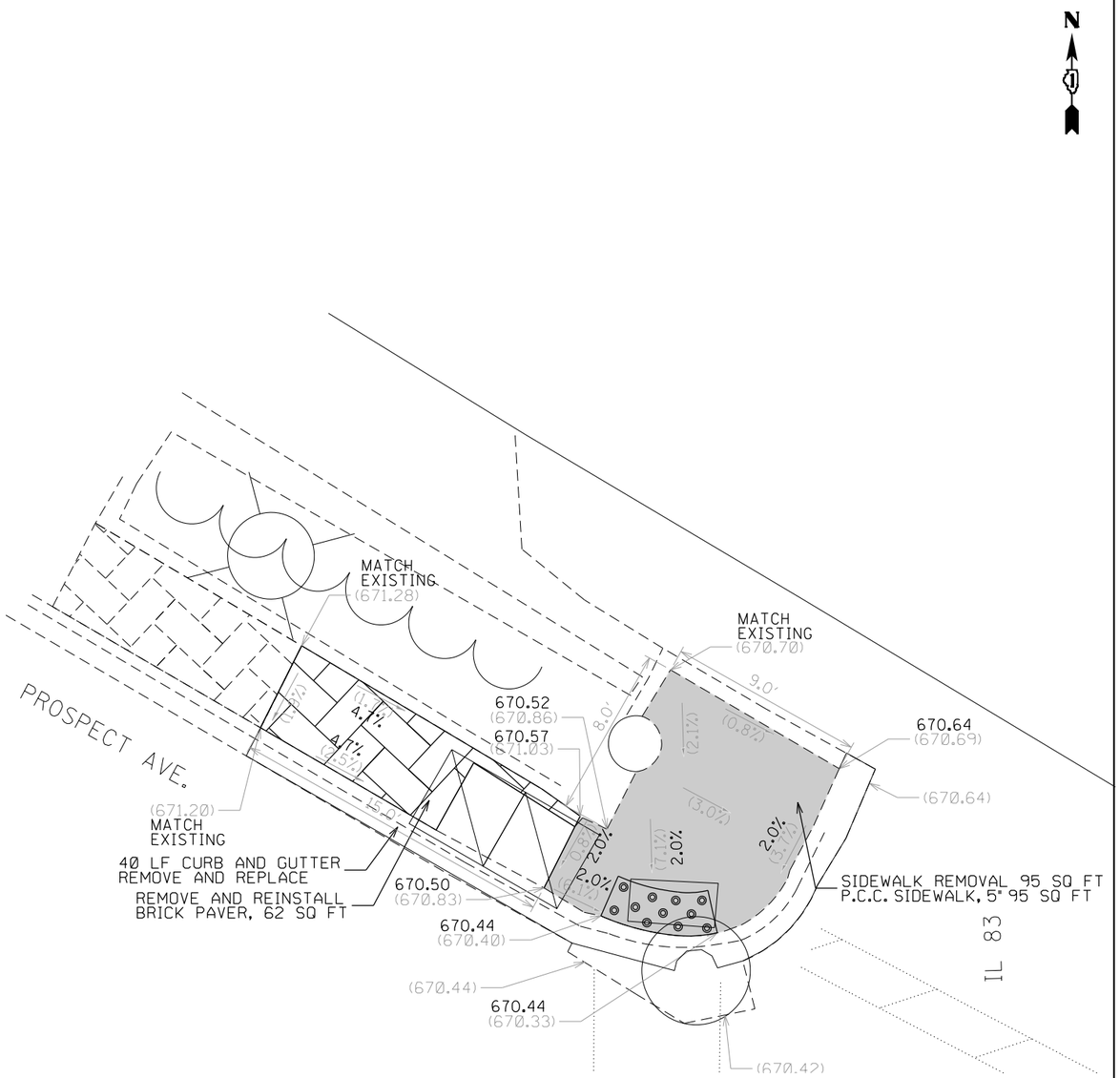
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

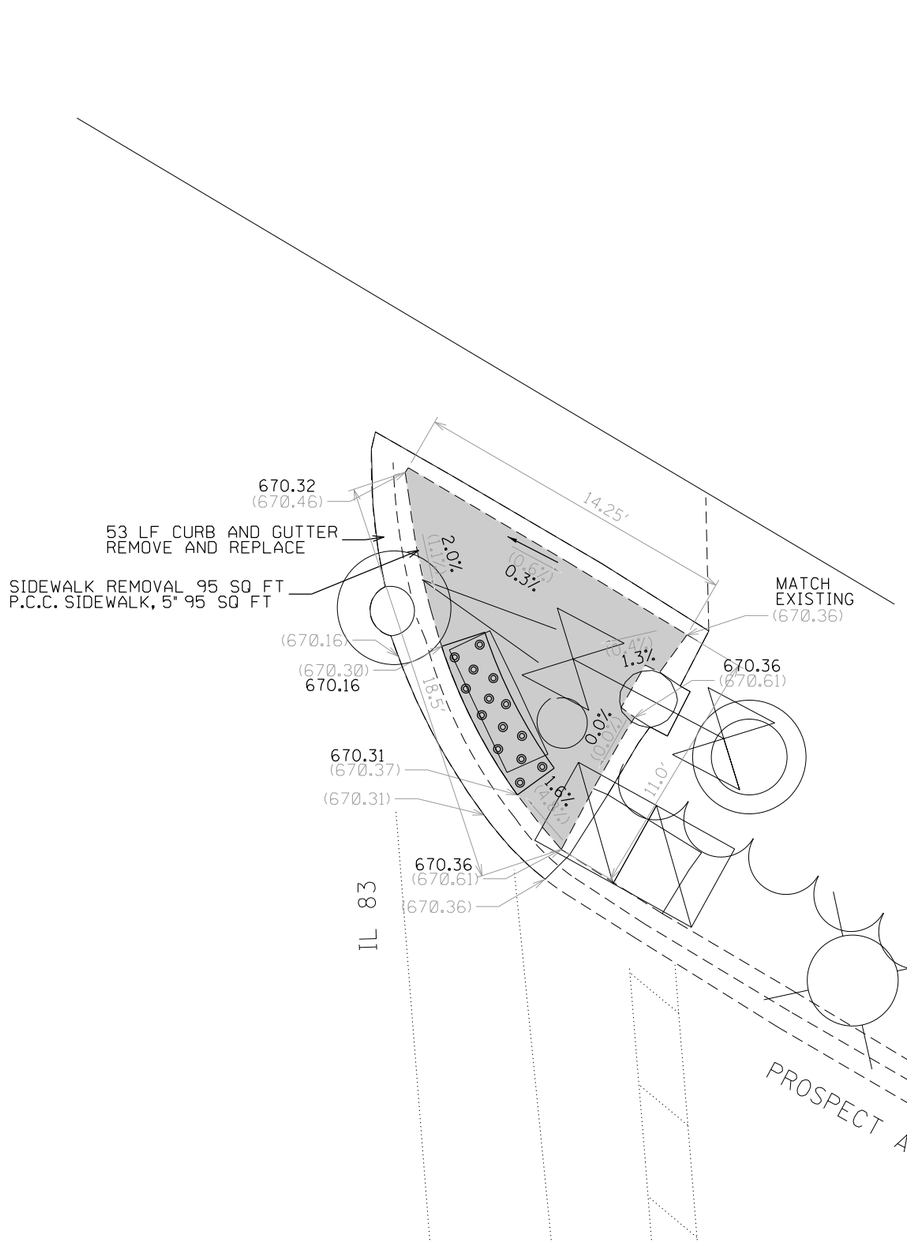
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ADA RAMP DETAILS (ALGONQUIN RD & EDGEMONT LN)
NE & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	41
		CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		





REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	EXISTING BRICK PAVER REMOVE AND REINSTALL

REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

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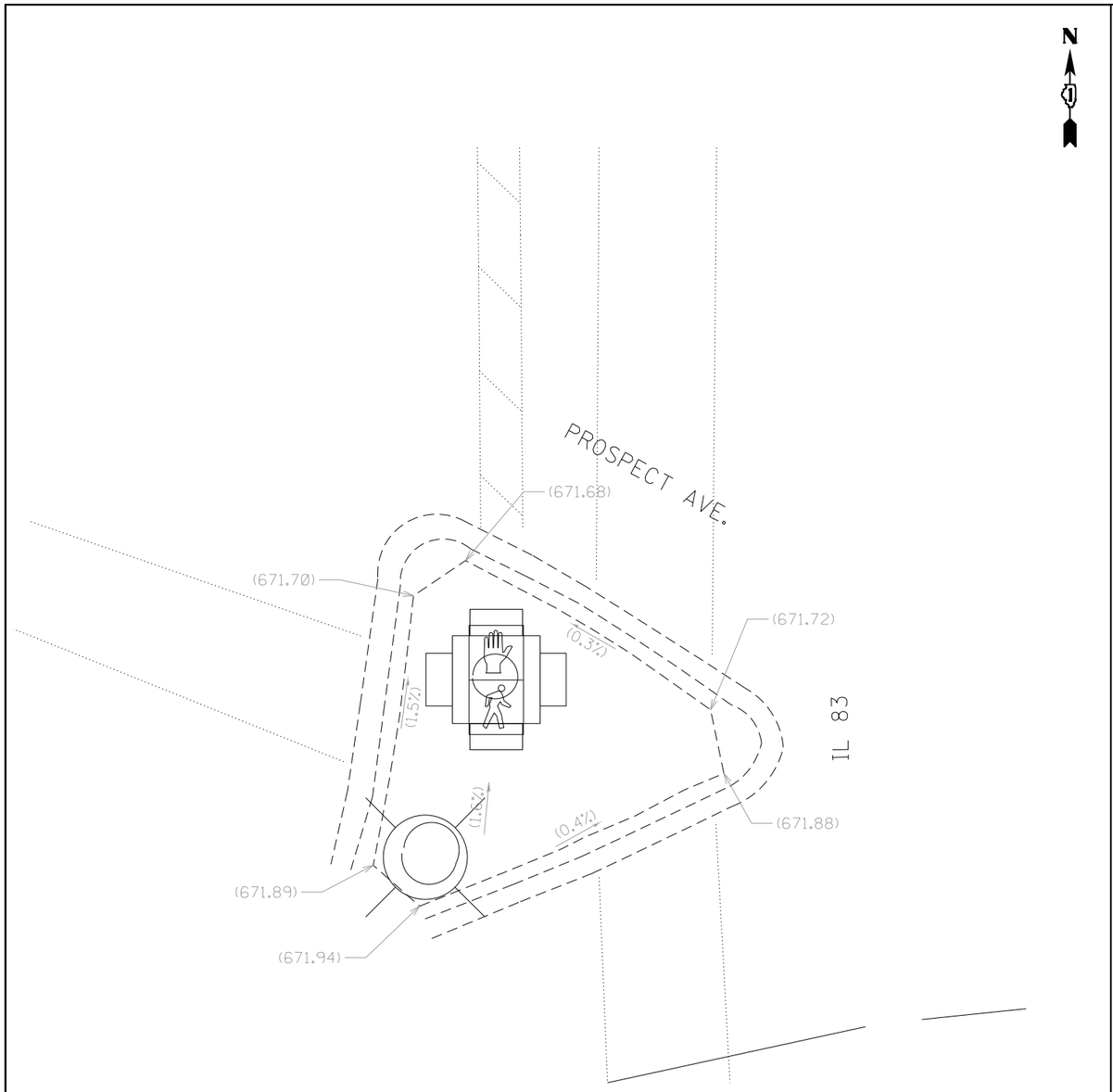
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

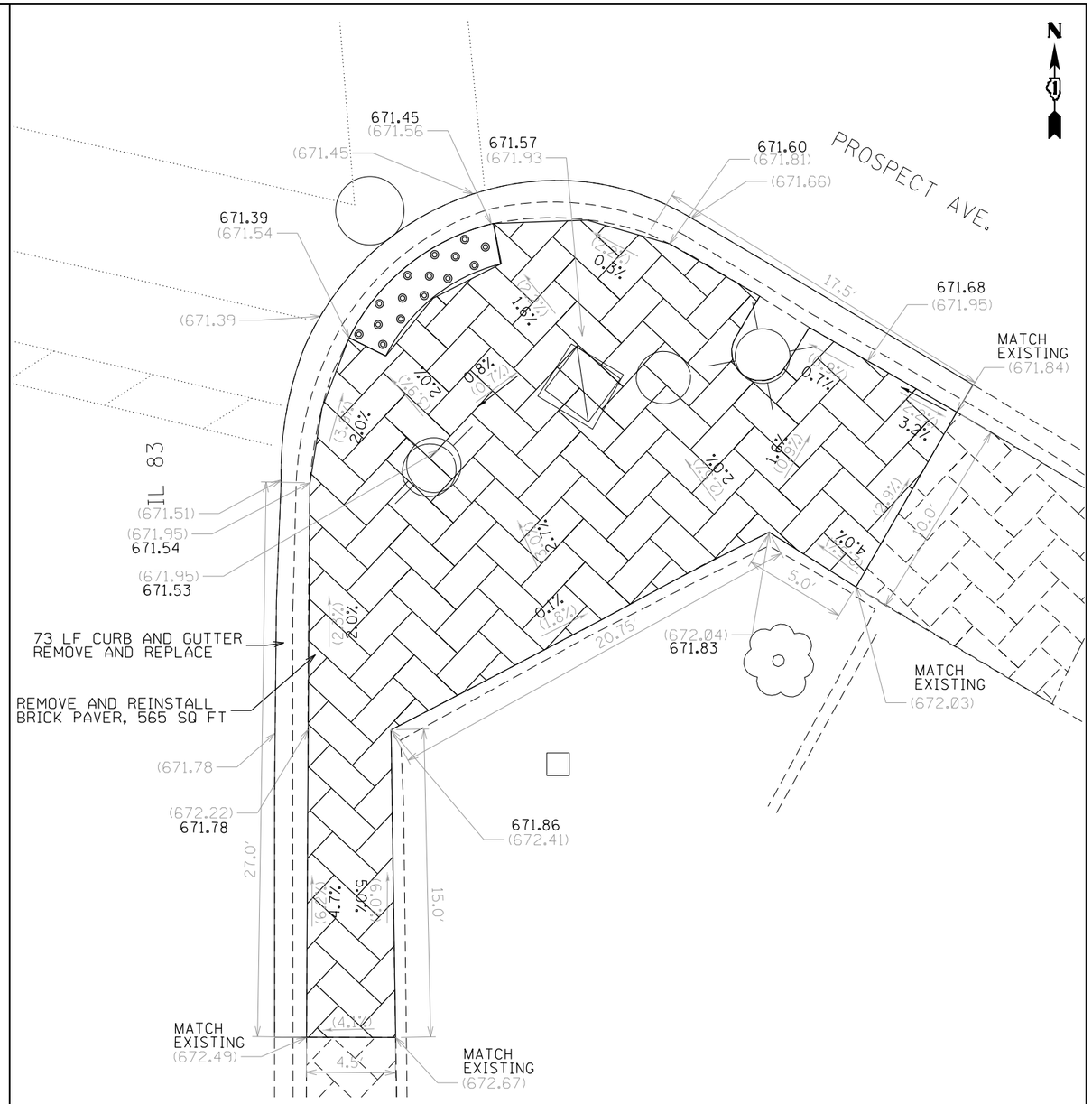
ADA RAMP DETAILS (IL 83 & PROSPECT AVE)
NW & NE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	42
		CONTRACT NO. 62R17		
		ILLINOIS FED. AID PROJECT		



NOTE: MEDIAN IS SUBSTANTIALLY COMPLIANT. NO WORK IS NEEDED.



REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

LEGEND

xx.xx'	EXISTING LENGTH
═══	PROPOSED SIDE CURB
( )	EXISTING ELEVATION/SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	EXISTING BRICK PAVER REMOVE AND REINSTALL

REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

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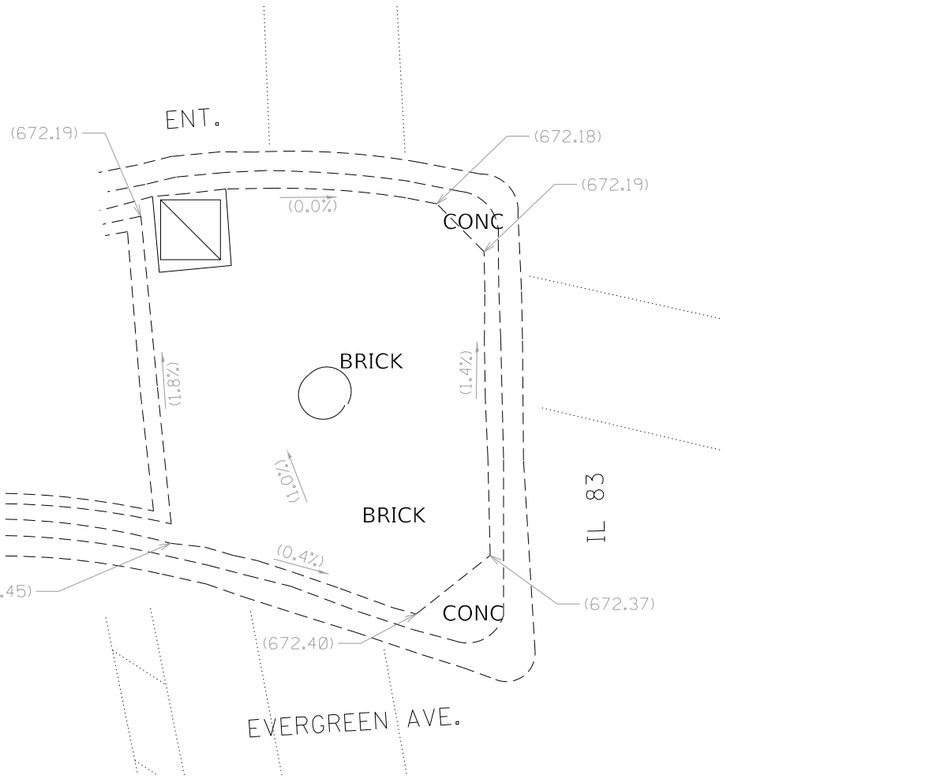
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

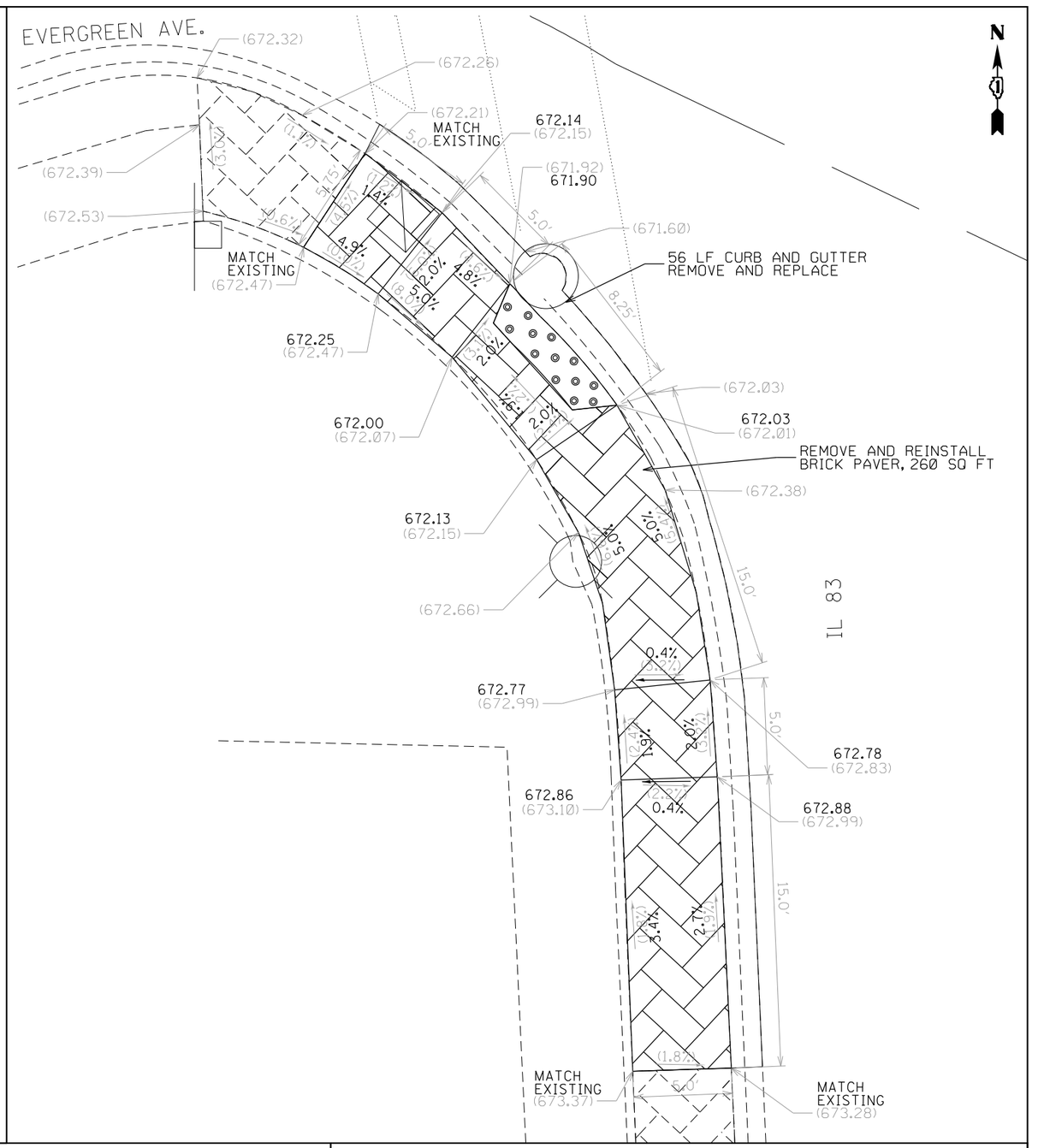
ADA RAMP DETAILS (IL 83 & PROSPECT AVE)
SW & SE CORNERS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	43
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



NOTE: MEDIAN IS SUBSTANTIALLY COMPLIANT. NO WORK IS NEEDED.



REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

LEGEND

- xx.xx' — EXISTING LENGTH
- PROPOSED SIDE CURB
- ( ) — EXISTING ELEVATION/SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- EXISTING BRICK PAVER REMOVE AND REINSTALL

REFERENCE BENCH MARK ELEV 672.10

BENCHMARK : SQUARE-CUT ON WEST CONCRETE BASE OF TRAFFIC SIGNAL WITH ARM

LOCATION : AT THE SOUTHEAST CORNER OF IL 83 & PROSPECT AVE.

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		DRAWN -	REVISED -
	PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
Default	PLOT DATE = 12/16/2022	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

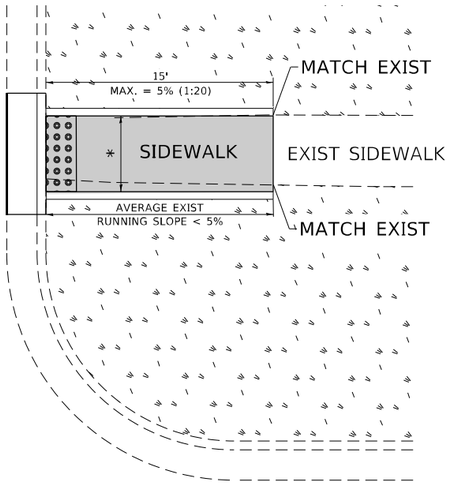
ADA RAMP DETAILS (IL 83 & EVERGREEN AVE)
NW & SW CORNERS

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

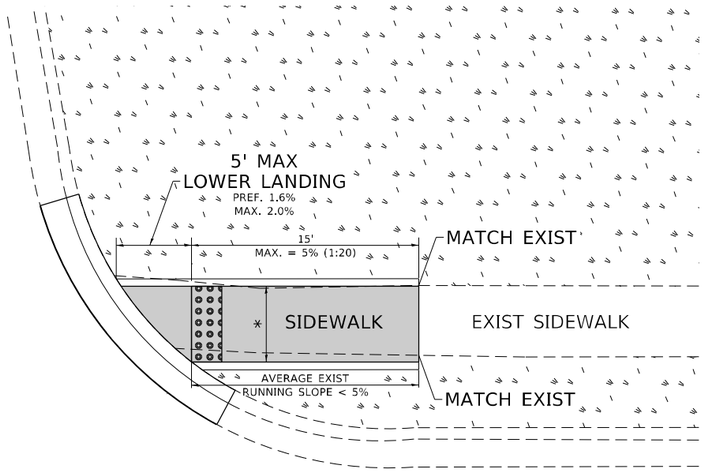
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	44
		CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

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

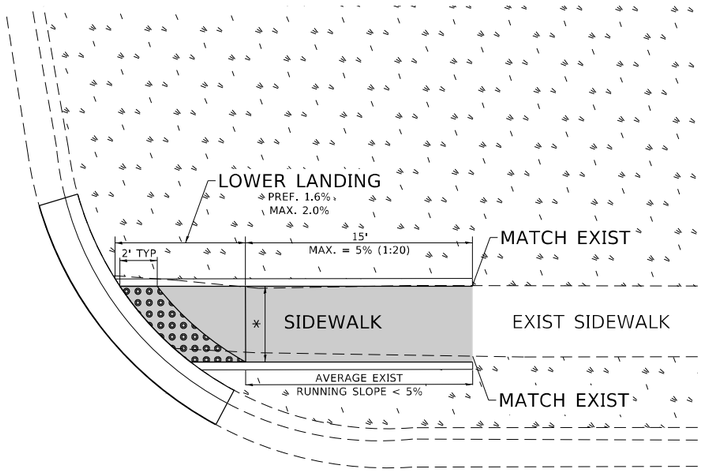
PD–01A



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

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
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PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	45
	PD-01	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

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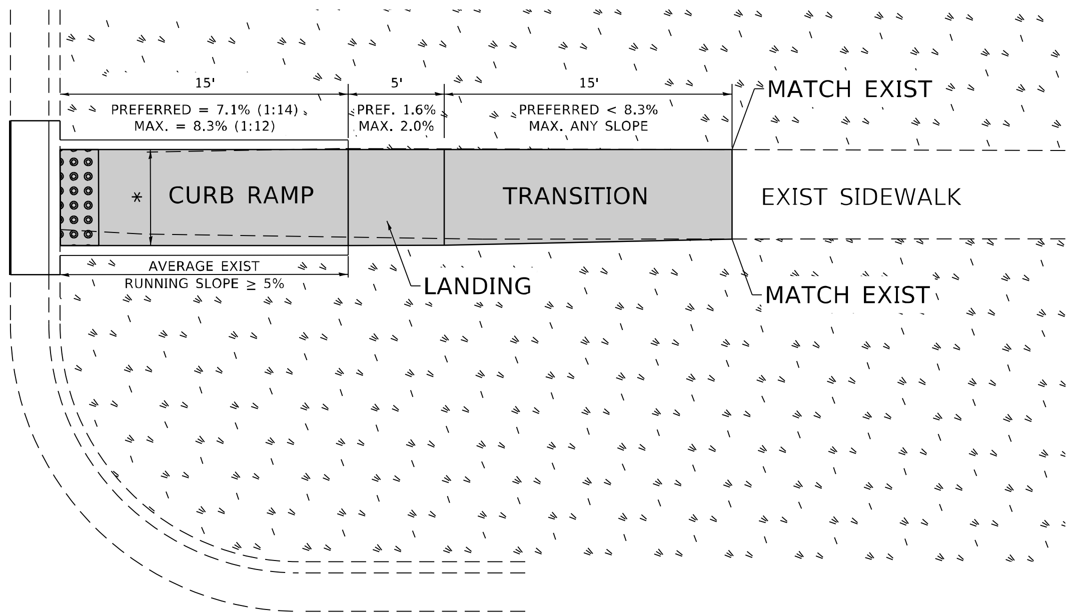
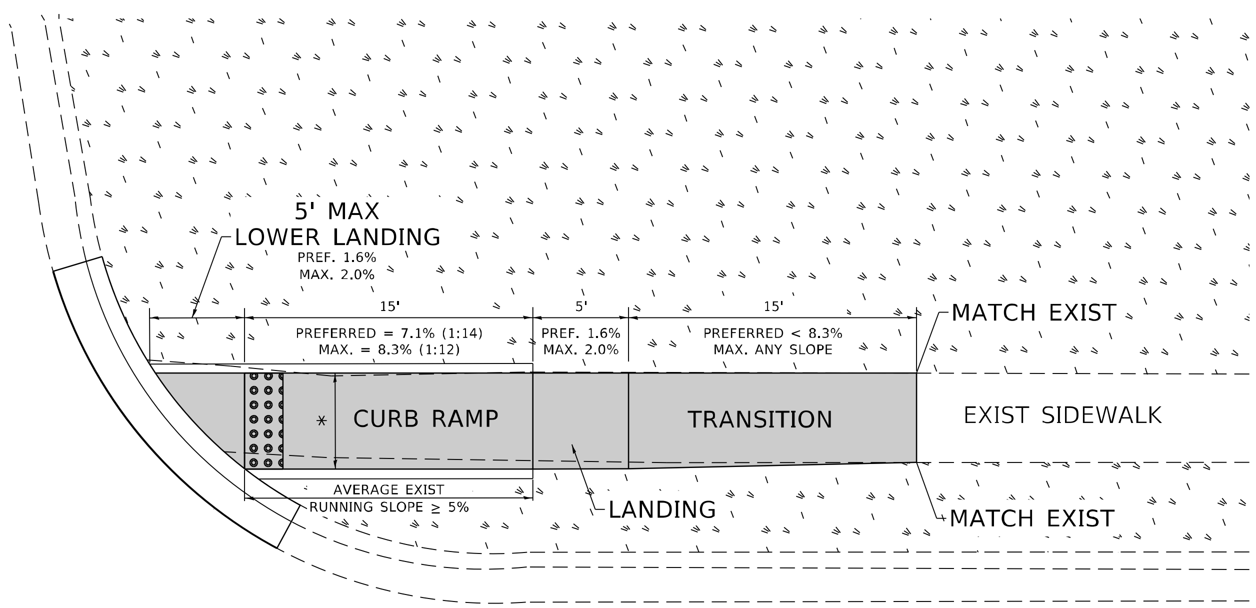
ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

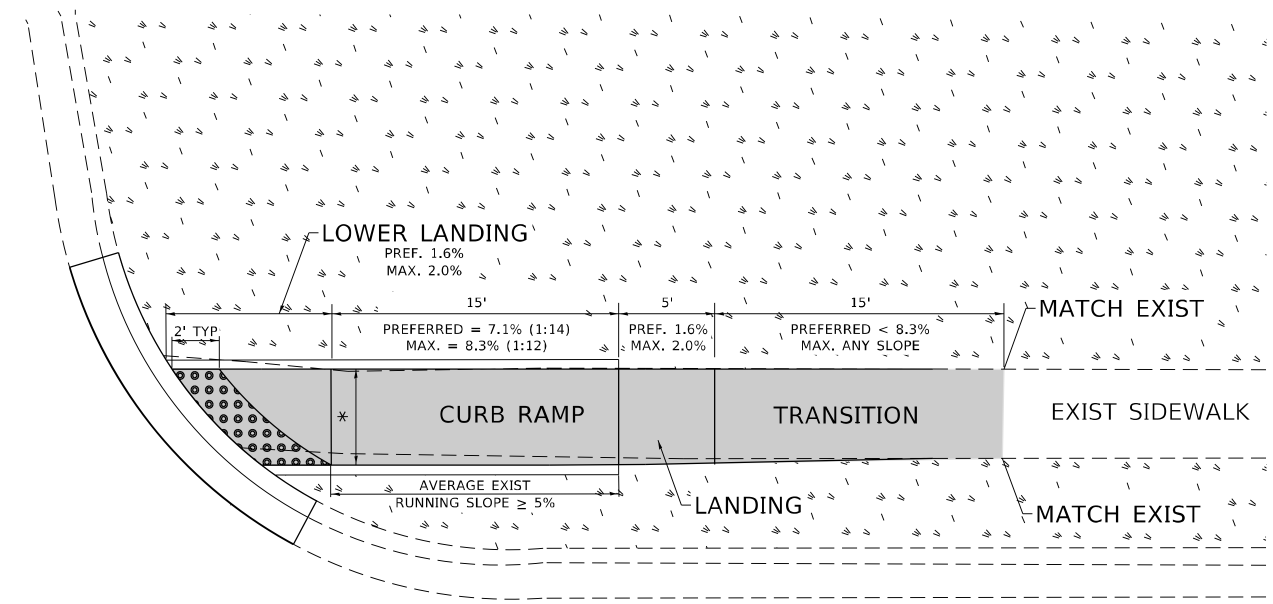
PD–02A



PD–02B



PD–02C



LEGEND

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

CONSTRUCTION NOTES:

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

* MATCH EXISTING SIDEWALK WIDTH

MODEL: Default

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	DRAWN - R. LEDEZMA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

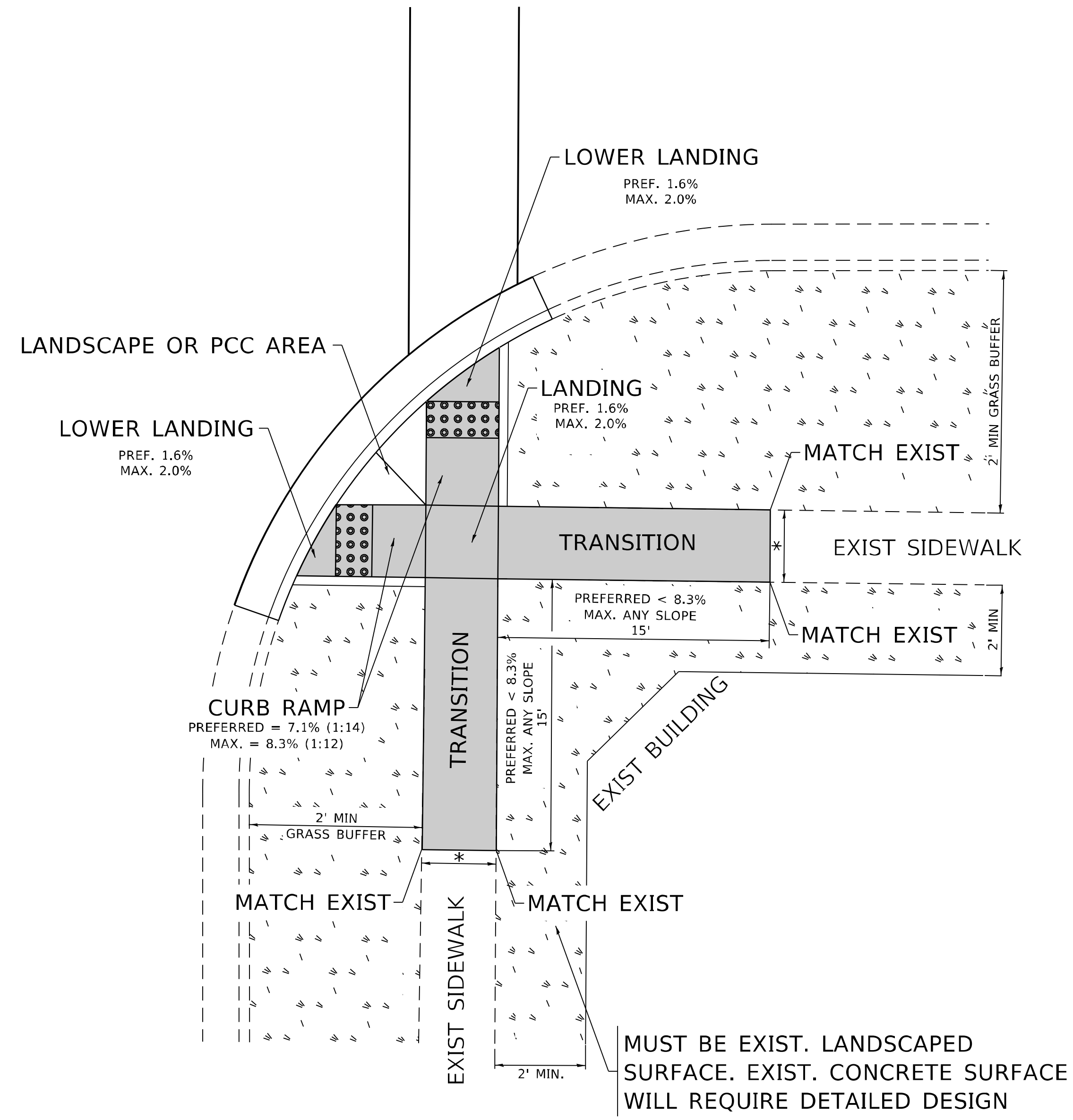
PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS (PD–02)

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

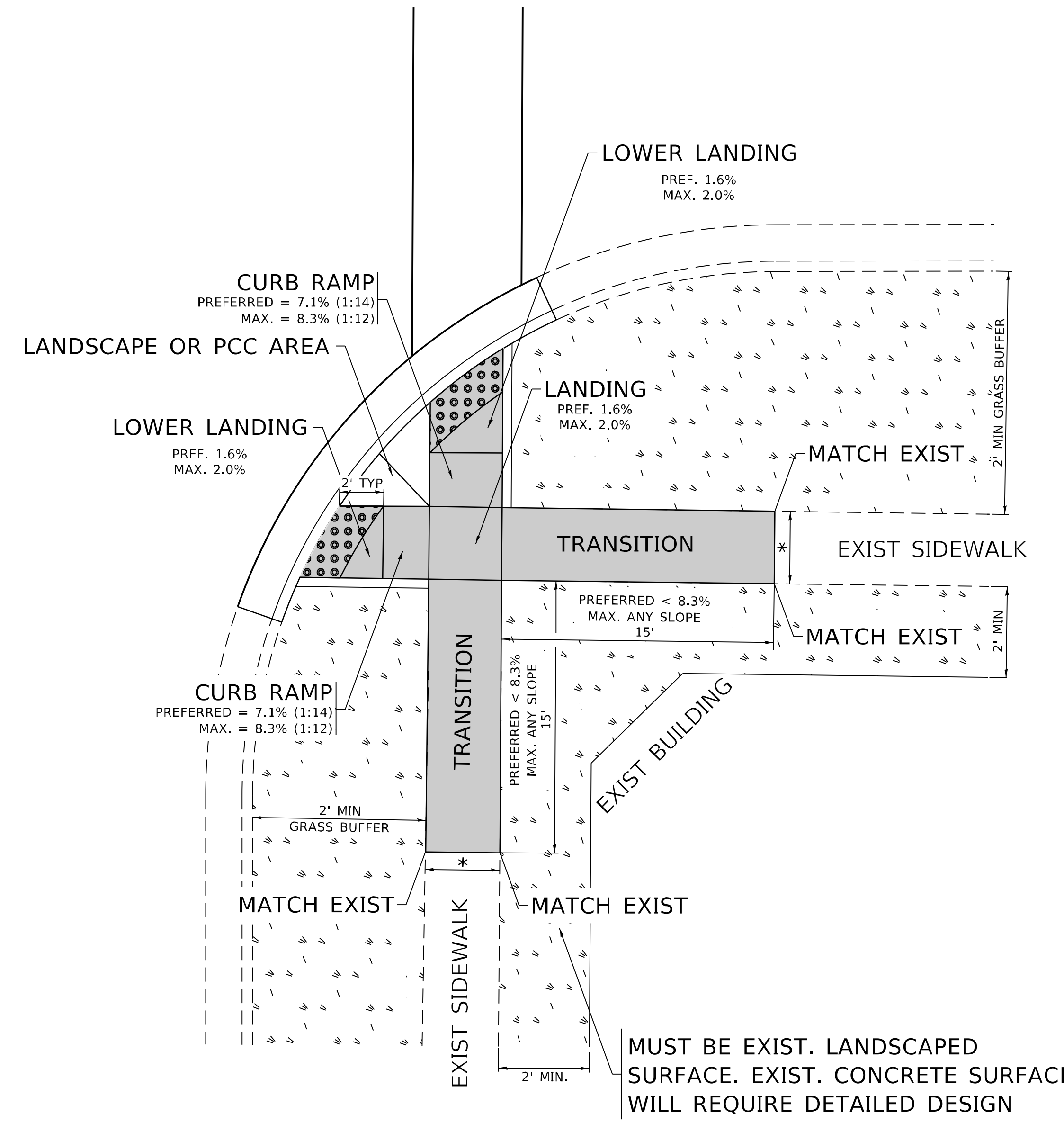
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	46
	PD-02	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

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

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	DRAWN - R. LEDEZMA	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -	

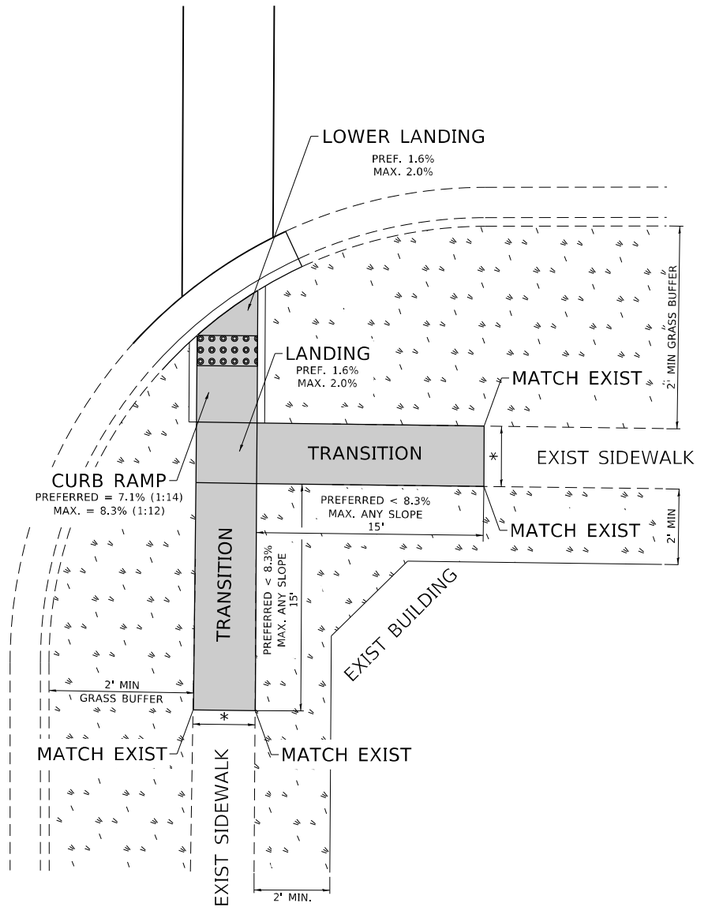
PROJECT DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS (PD-03)

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

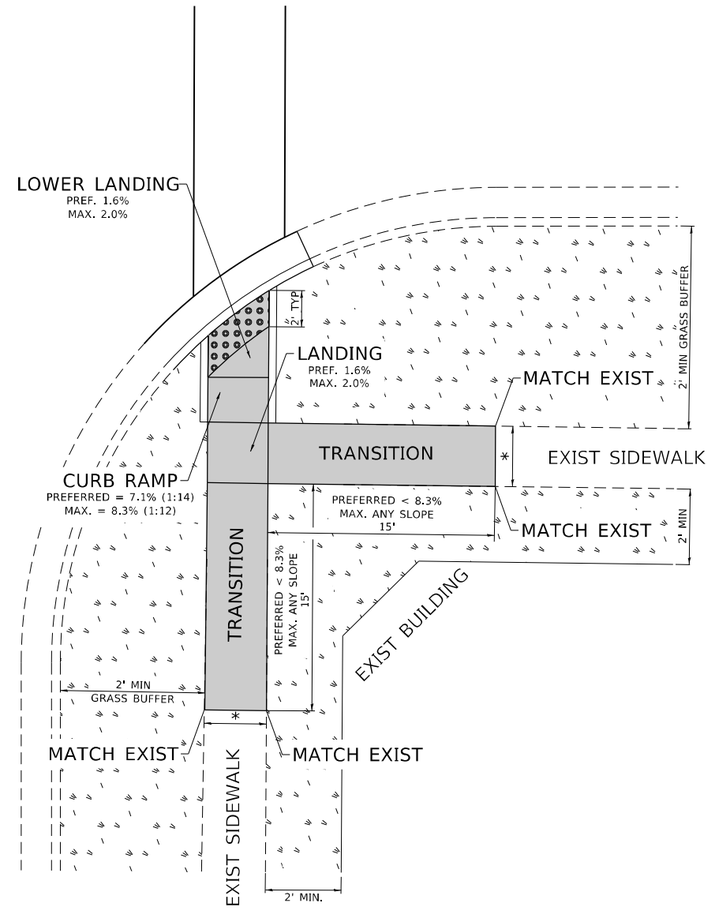
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	47
	PD-03	CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

PD–04A



PD–04B



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

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS WITH TURNING SPACE (PD–04)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	48
	PD-04	CONTRACT NO.	62R17	
	ILLINOIS FED. AID PROJECT			

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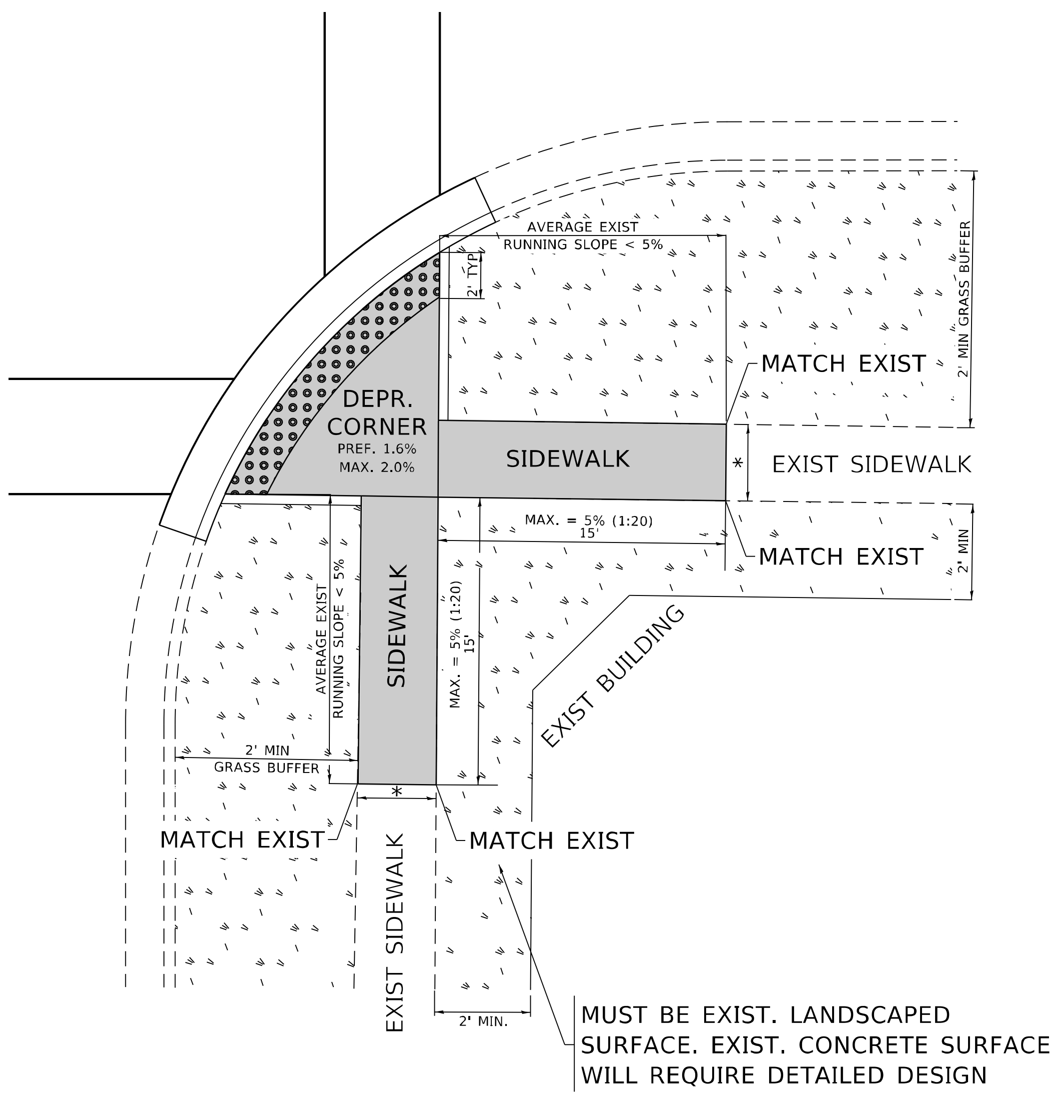
ADA DETAIL FOR DEPRESSED CORNER CURB RAMPS

PD–05A



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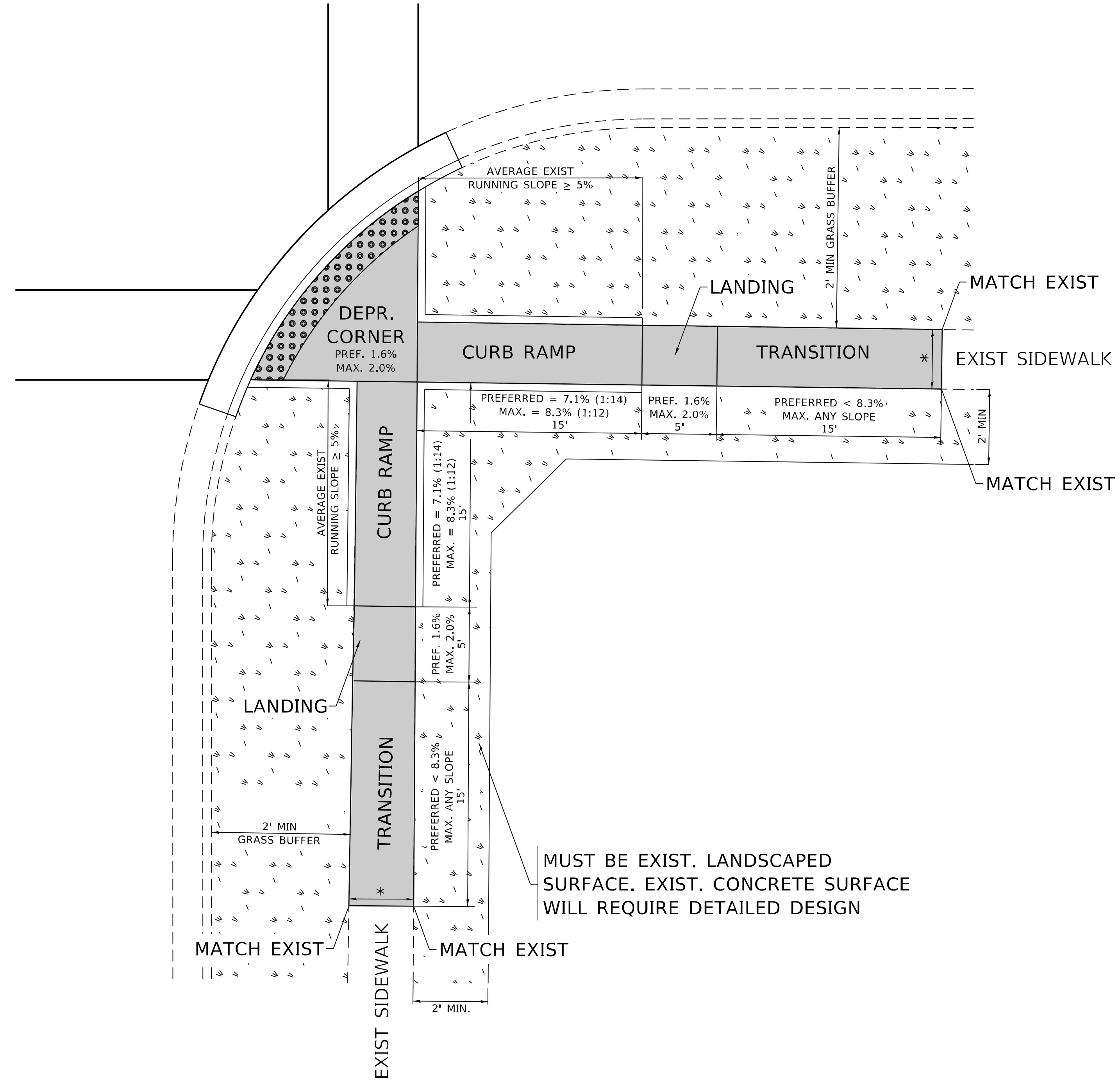

LEGEND

Symbol	Description
(double line)	PROPOSED SIDE CURB
(grass pattern)	EXIST. GRASS
(grey fill)	PROPOSED SIDEWALK
(dot pattern)	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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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	
PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

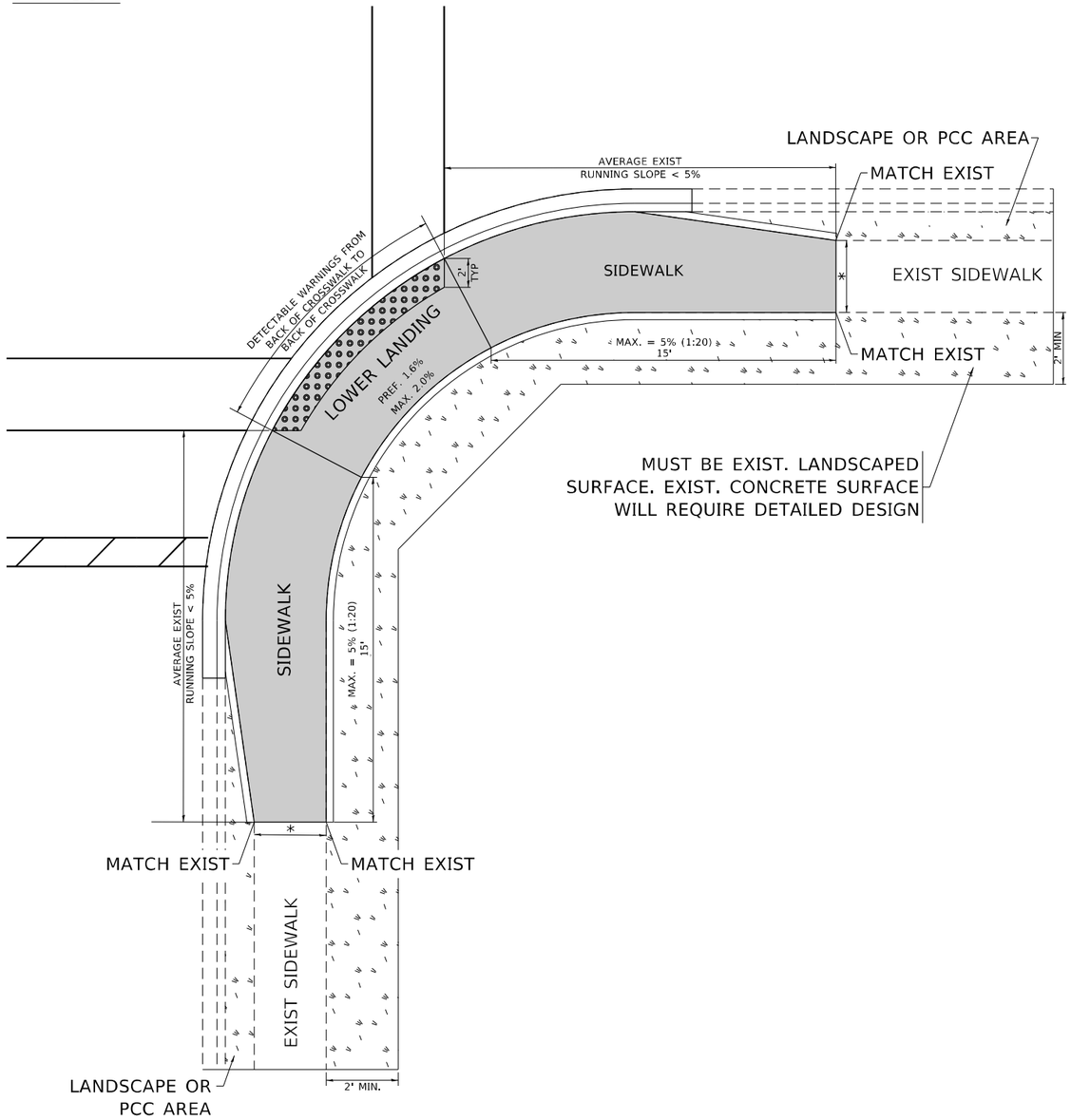
PROJECT DETAIL FOR DEPRESSED CORNER CURB RAMPS
(PD–05)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	49
	PD-05	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

PD–06A



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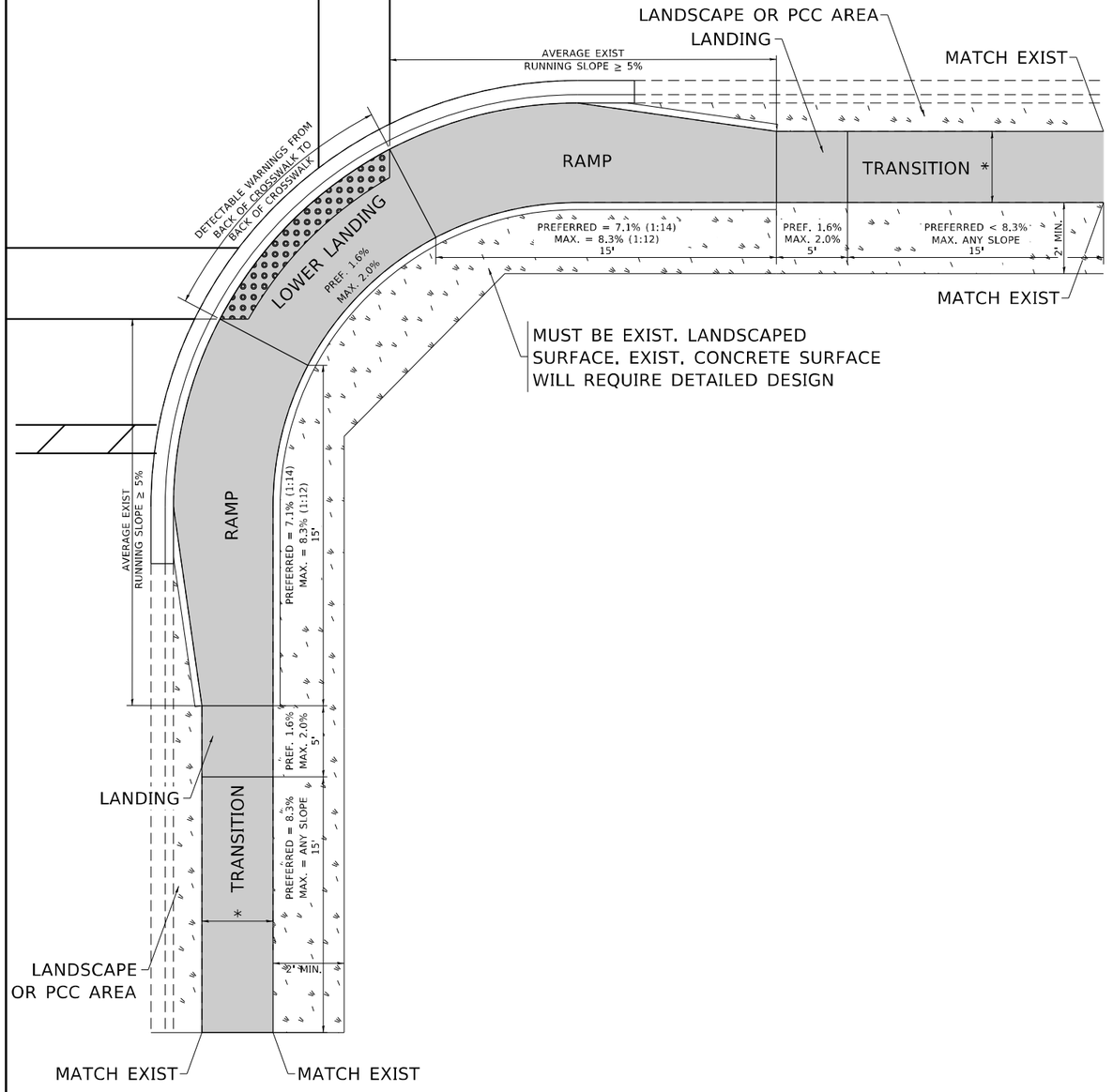

LEGEND

- 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

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 12/16/2022	DATE - 10/02/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT DETAIL FOR PARALLEL CURB RAMPS
(PD–06)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	50
	PD-06	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

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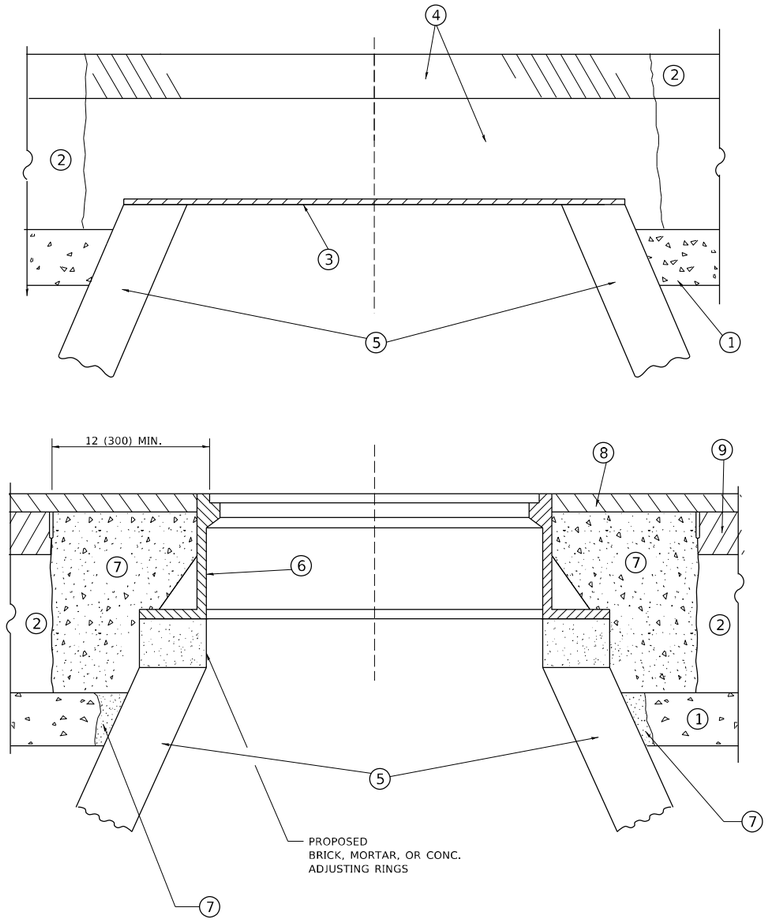

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

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	DRAWN -	REVISED - R. BORO 03-09-11	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11	
PLOT DATE = 12/16/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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

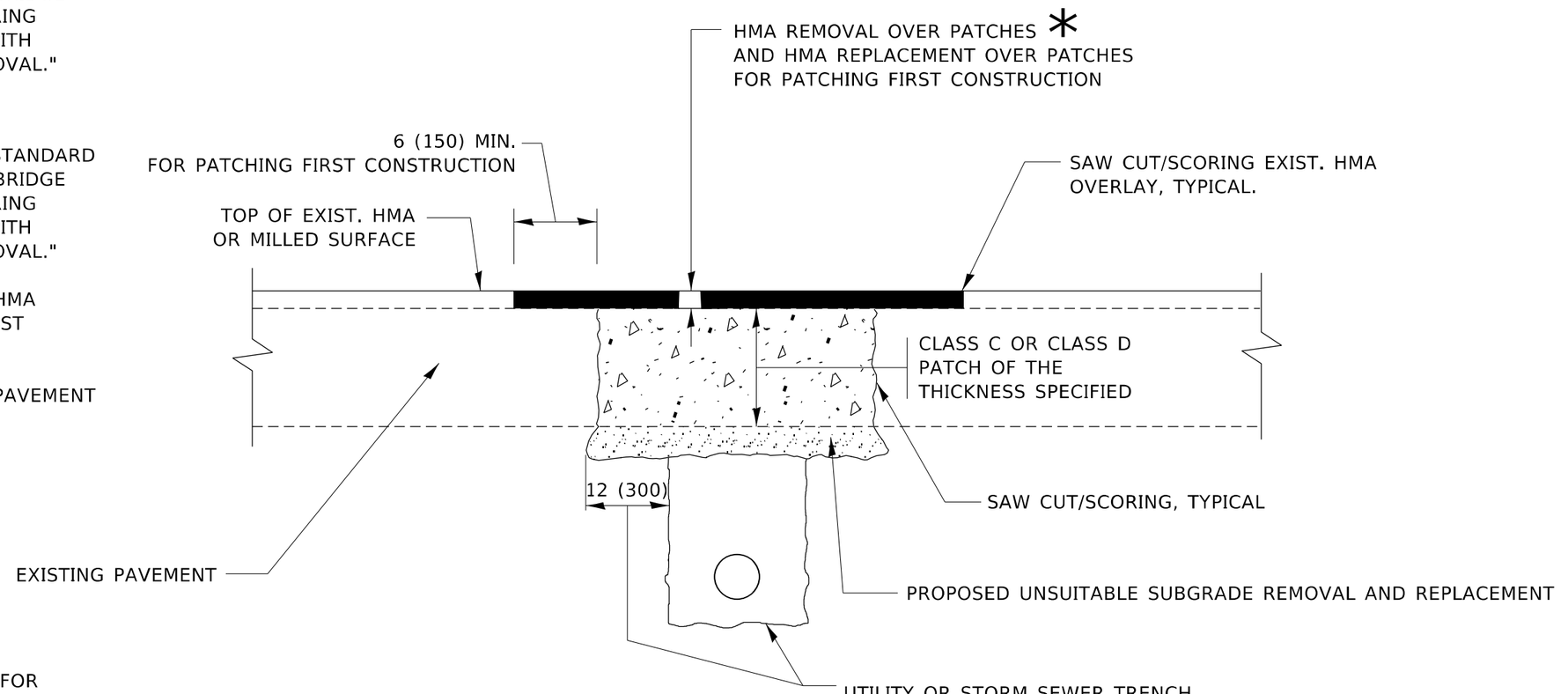
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	51
	BD600-03 (BD-08)	CONTRACT NO.	62R17	
	ILLINOIS FED. AID PROJECT			

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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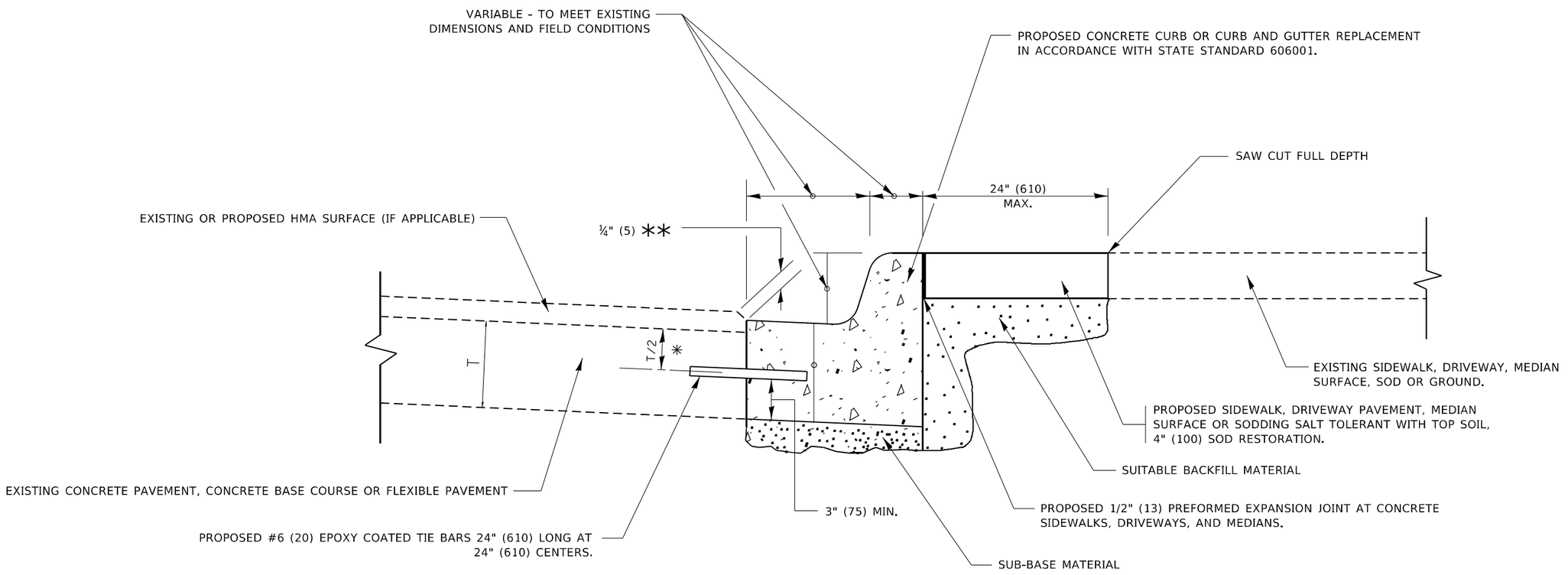
	DRAWN -	REVISED - R. BORO 09-04-07	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08	
PLOT DATE = 12/16/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	52
	BD400-04 (BD-22)	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



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

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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

USER NAME = yaseen.qureshi	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97	**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**
	DRAWN -	REVISED - M. GOMEZ 01-22-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09	
PLOT DATE = 12/16/2022	DATE - 03-11-94	REVISED - K. SMITH 07-11-19	

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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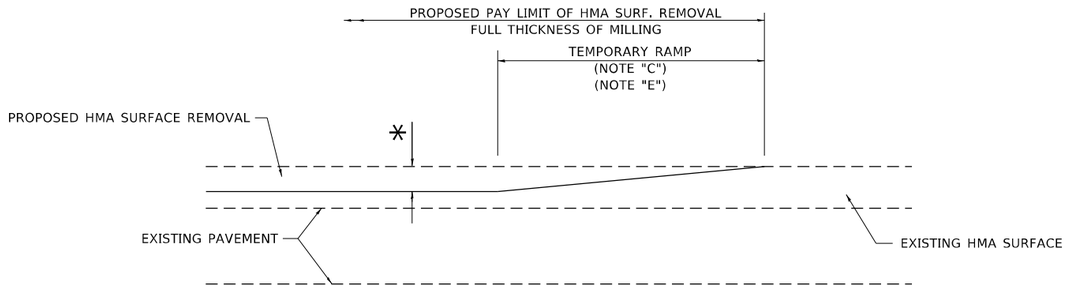
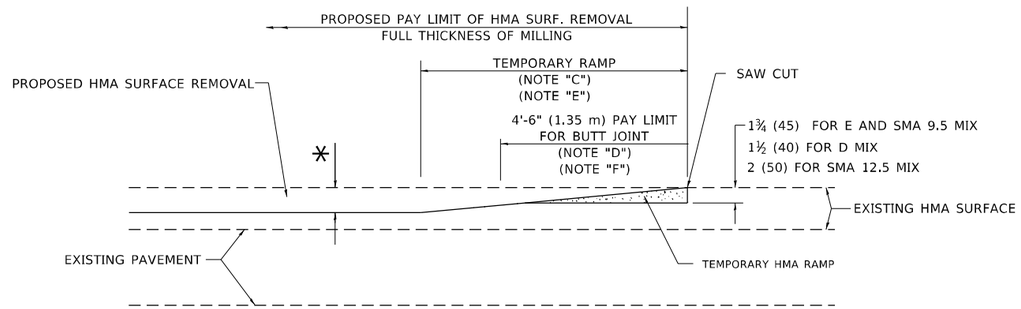
	BD600-06 (BD-24)	CONTRACT NO.	**62R17**	
	ILLINOIS FED. AID PROJECT			



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

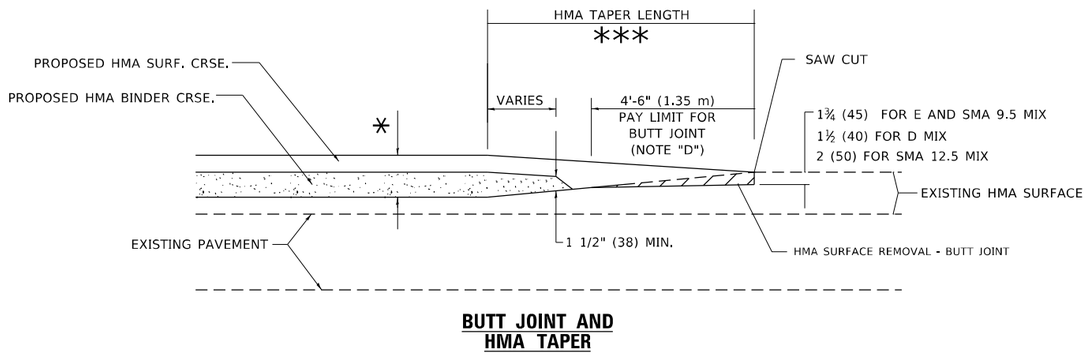


HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

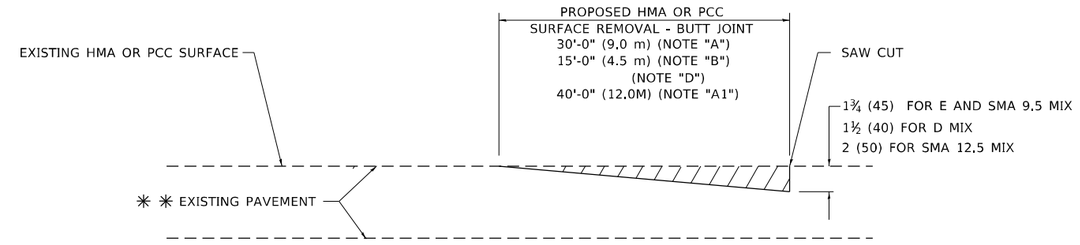
OPTION 2

TYPICAL TEMPORARY RAMP

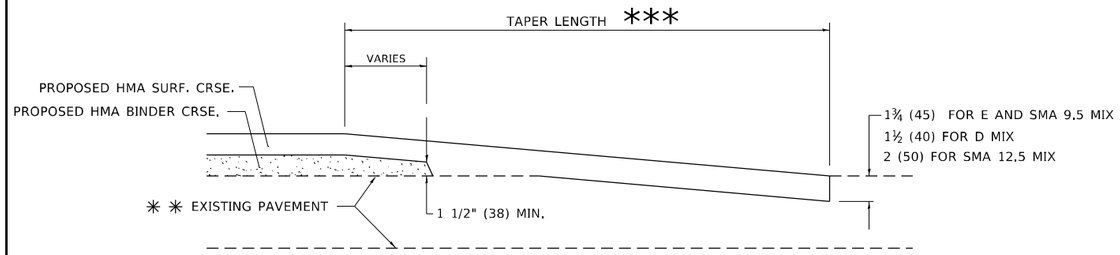


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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.

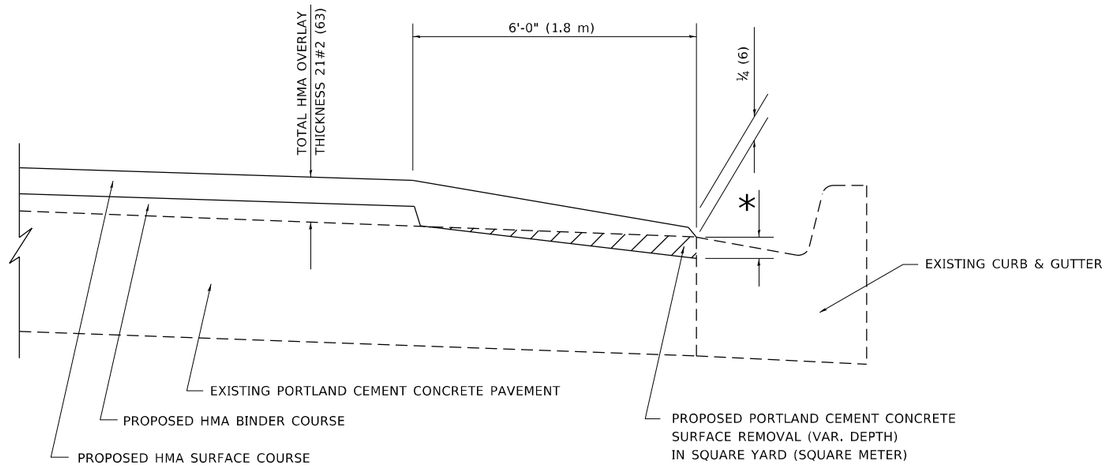
USER NAME = yaseen.qureshi	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97	
	DRAWN -	REVISED - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07	
PLOT DATE = 12/16/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	54
	BD400-05 BD-32	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



HMA TAPER AT
EDGE OF PCC PAVEMENT

HMA SURFACE COURSE		HMA BINDER COURSE	
MIX	THICKNESS	THICKNESS	* MILLING AT GUTTER FLAG
D	1½ (38)	1 (25)	1¼ (33)
E OR SMA 9.5	1¾ (44)	¾ (19)	1½ (38)

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

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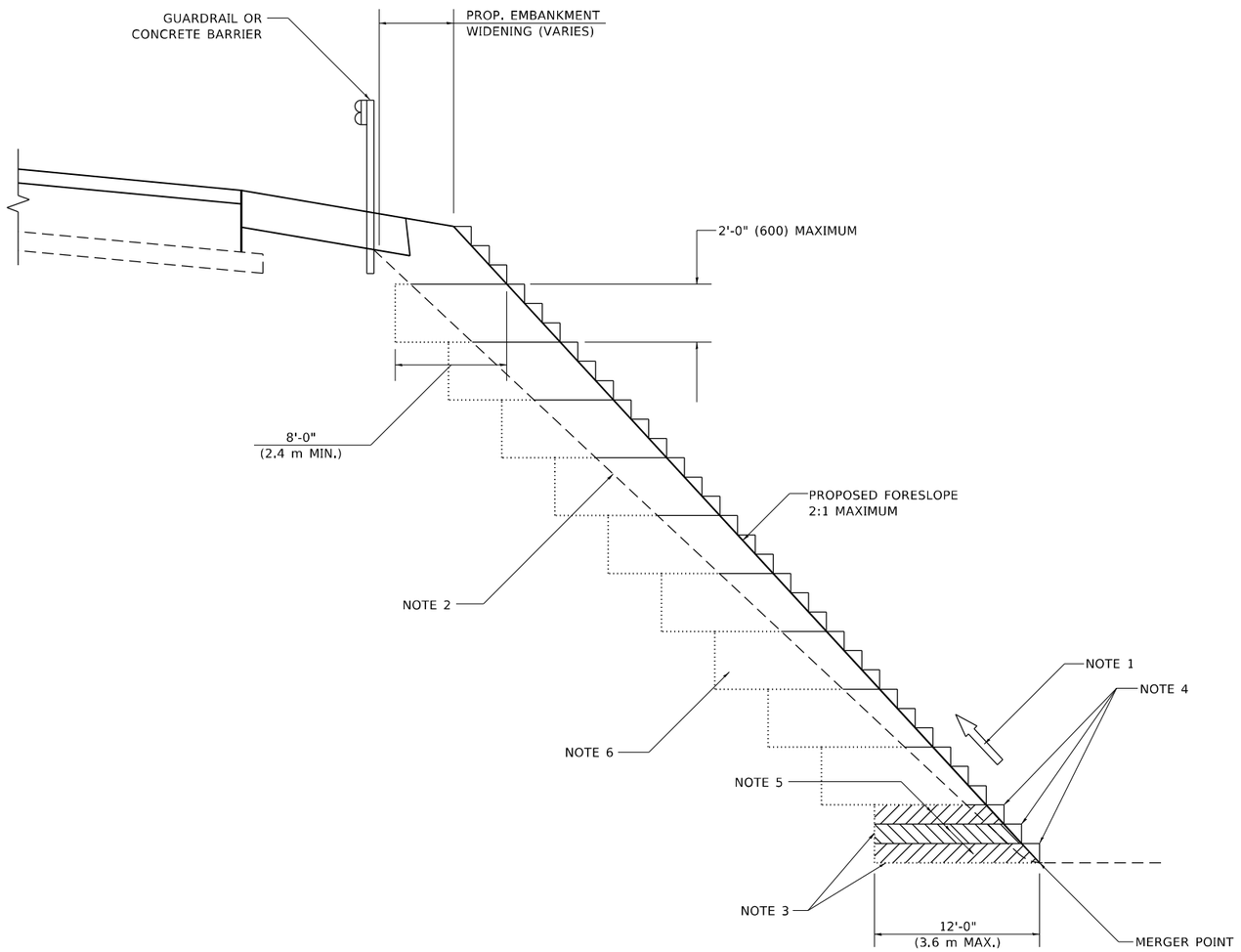
USER NAME = yaseen.qureshi	DESIGNED - R. SHAH	REVISED - E. GOMEZ 12-21-00	
	DRAWN - JIS	REVISED - R. BORO 01-01-07	
PLOT SCALE = 100.0000 ' / in.	CHECKED - A. ABBAS	REVISED - JP CHANG 07-08-16	
PLOT DATE = 12/16/2022	DATE - 09-10-94	REVISED - K. SMITH 11-18-22	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	55
	BD400-06 BD-33	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



TYPICAL BENCHING DETAIL FOR EMBANKMENT

GENERAL NOTES

1. CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
2. EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
3. BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
4. TRIM TO FINAL SLOPE.
5. EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.

BASIS OF PAYMENT

1. EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

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

MODEL: Default
FILE NAME: pw:\\dot-pw.bentley.com:PWDOT\Documents\IDOT Offices\District 1\Projects\D1232\CADData\Design\bd45td.dgn

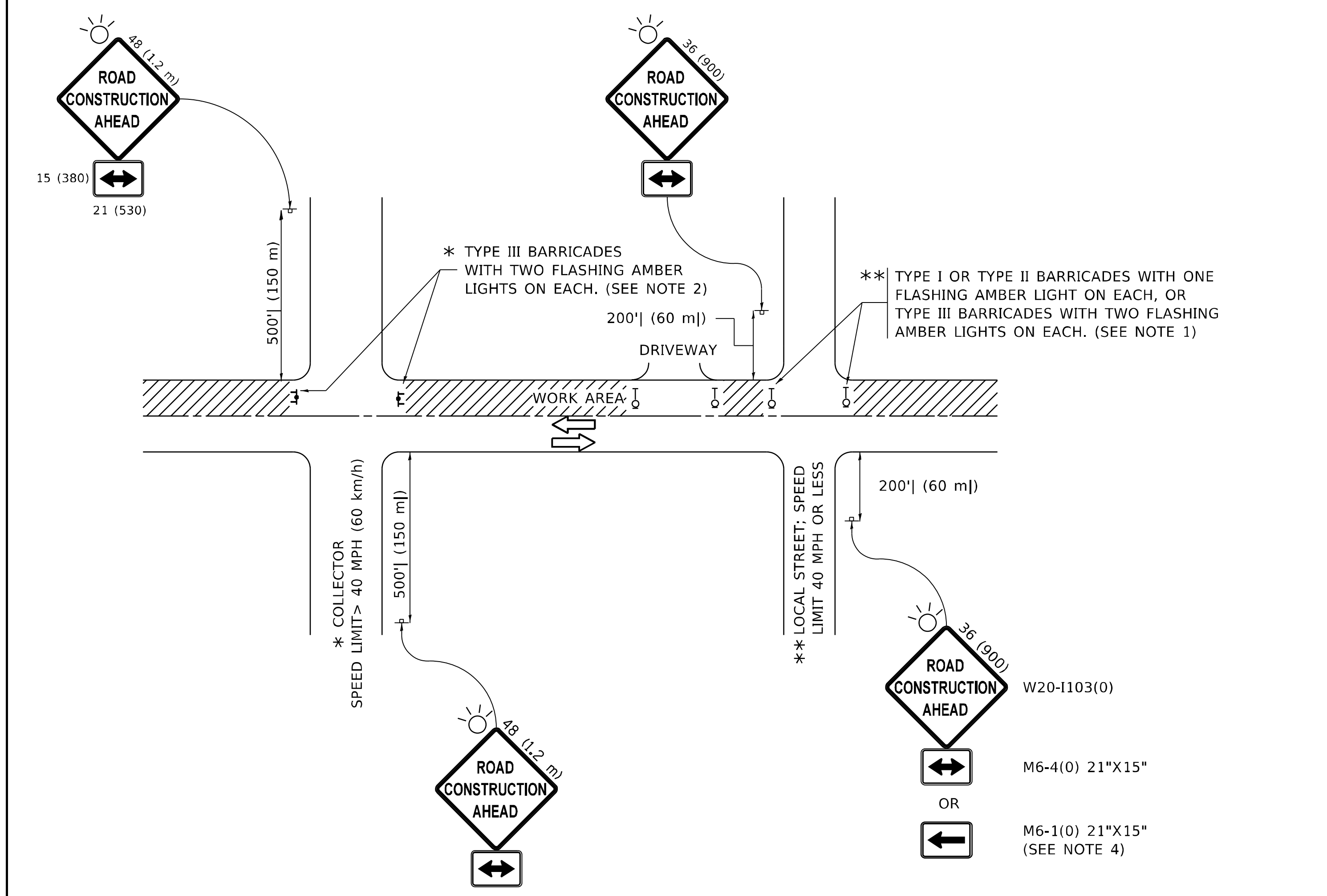
USER NAME = yaseen.qureshi	DESIGNED -	REVISED - K. SMITH 11-18-22	
	DRAWN - CADD	REVISED -	
PLOT SCALE = 100.0000 ' / in.	CHECKED - S.E.B.	REVISED -	
PLOT DATE = 12/16/2022	DATE - 06-16-04	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT WIDENING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	56
	BD-51	CONTRACT NO.	62R17	
	ILLINOIS FED. AID PROJECT			



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

   a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

   b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.

4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.

6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.

7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

MODEL: Default
FILE NAME: pw:\\idot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D112322\CADData\Design\DistStd.dgn

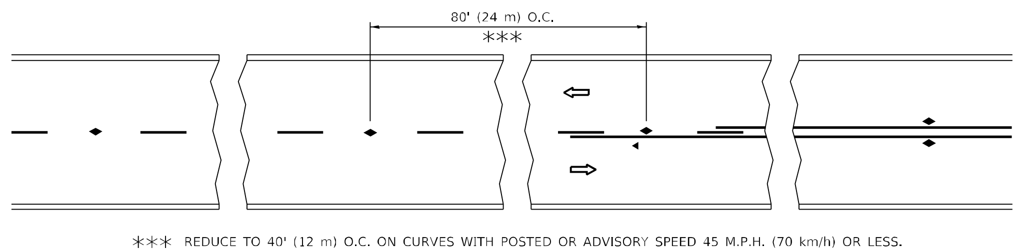
USER NAME = yaseen.qureshi	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 12/16/2022	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

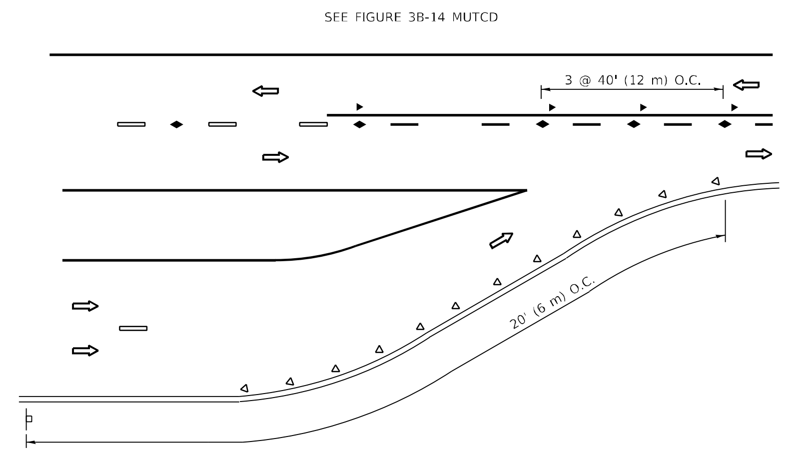
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

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

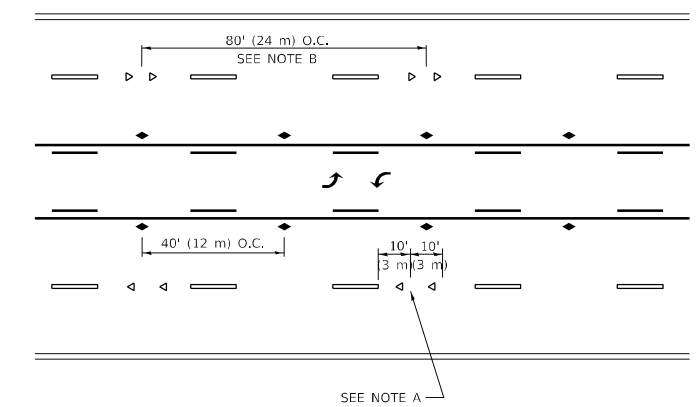
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	57
	TC-10	CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		



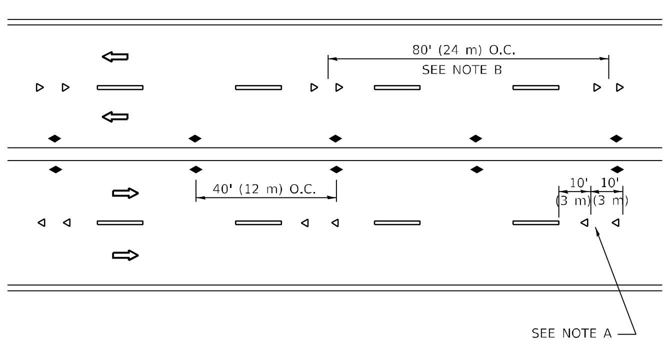
TWO–LANE/TWO–WAY



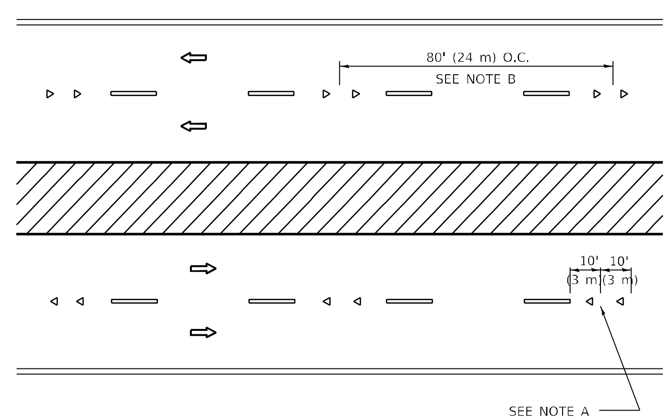
LANE REDUCTION TRANSITION



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

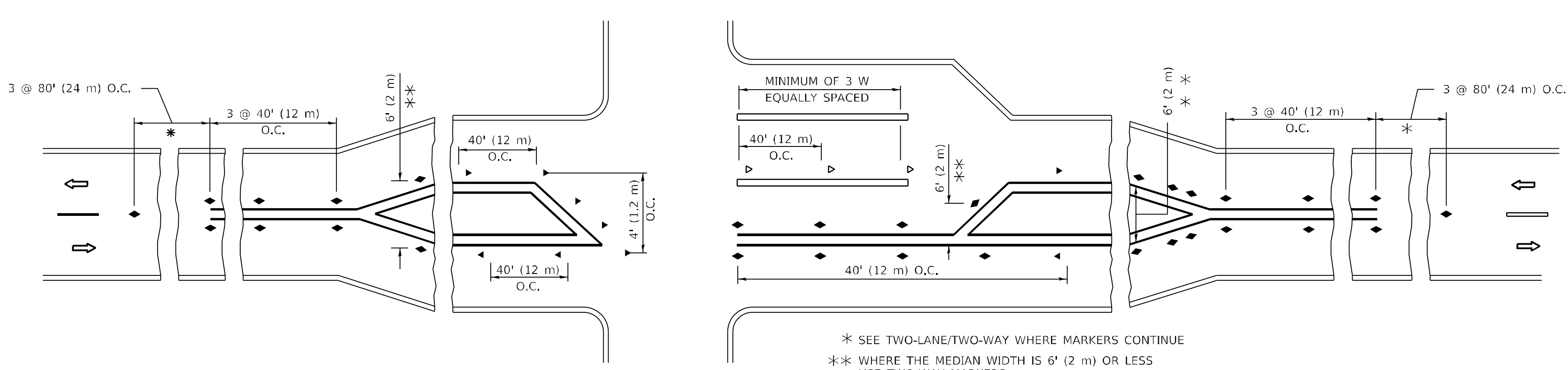
LANE MARKER NOTES

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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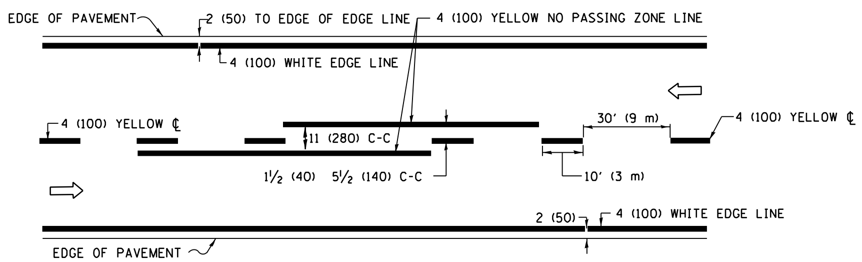
USER NAME = yaseen.qureshi	DESIGNED -	REVISED - T. RAMMACHER 03-12-99	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - T. RAMMACHER 01-06-00	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09	
PLOT DATE = 12/16/2022	DATE -	REVISED - C. JUCIUS 07-01-13	

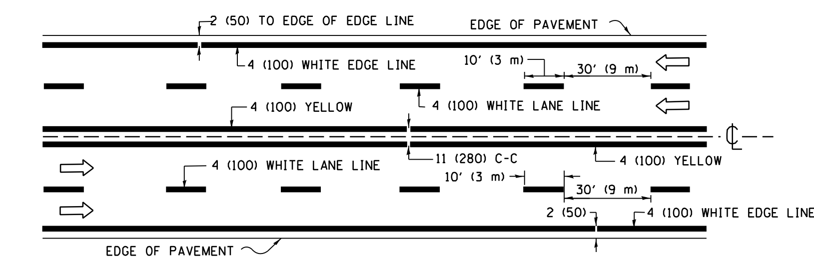
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW–PLOW RESISTANT)

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

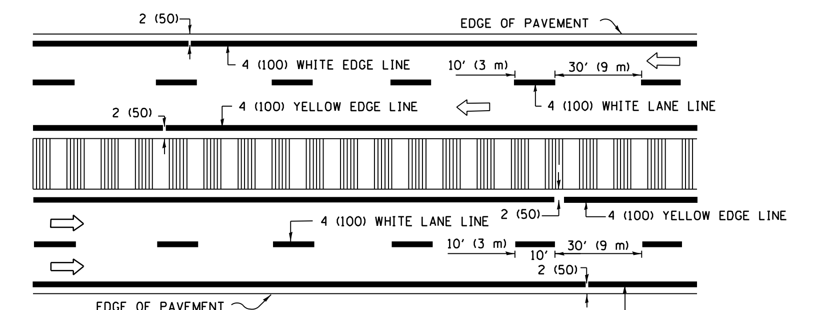
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	58
	TC-11	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



2–LANE ROADWAY

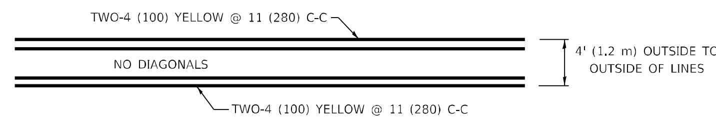


MULTI–LANE UNDIVIDED

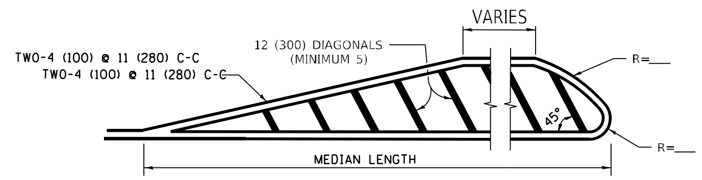


MULTI–LANE DIVIDED
WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING



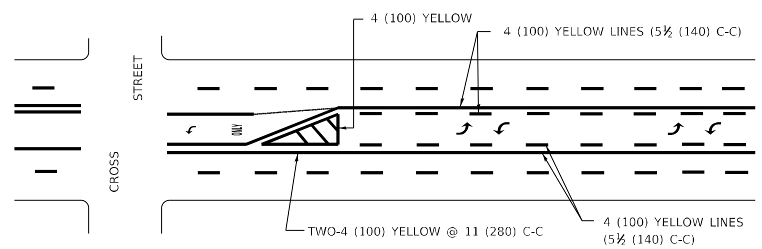
4' (1.2 m) WIDE MEDIANS ONLY



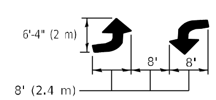
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

MEDIANS OVER 4' (1.2 m) WIDE

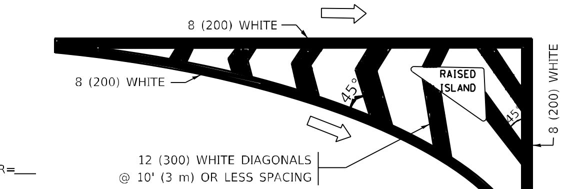


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

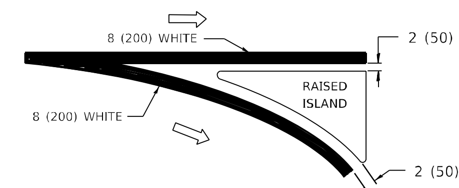


MEDIAN WITH TWO–WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

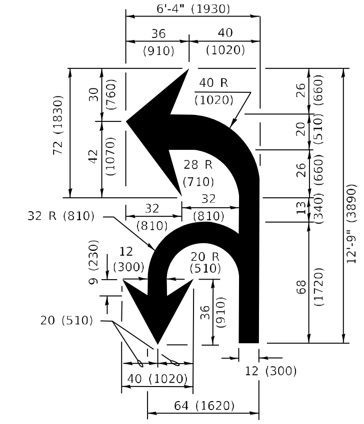


ISLAND OFFSET FROM PAVEMENT EDGE

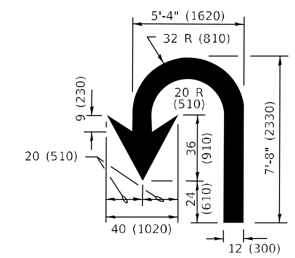


ISLAND AT PAVEMENT EDGE

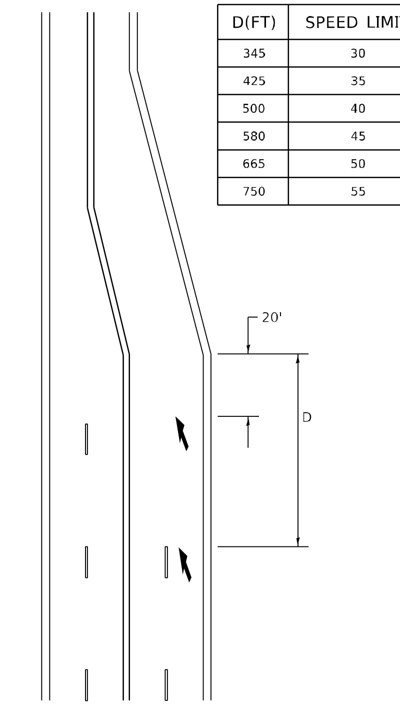
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U–TURN



U–TURN



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

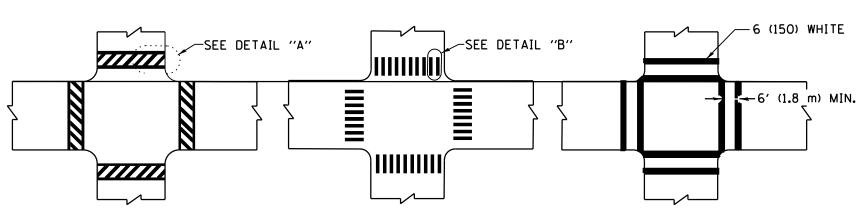
LANE REDUCTION TRANSITION

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

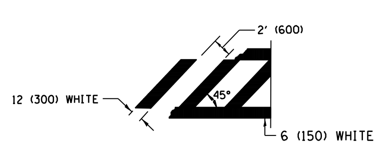
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100)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

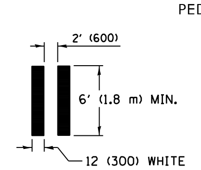
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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



BICYCLE & EQUESTRIAN SCHOOL PEDESTRIAN

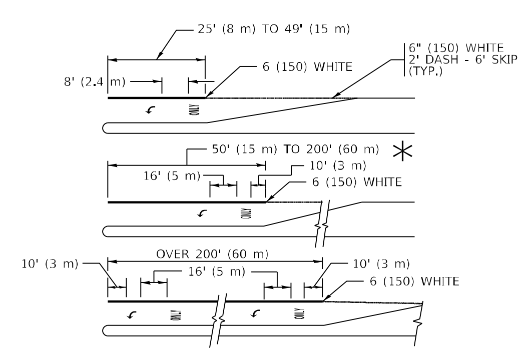




DETAIL "A" DETAIL "B"

TYPICAL CROSSWALK MARKING

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



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

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

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

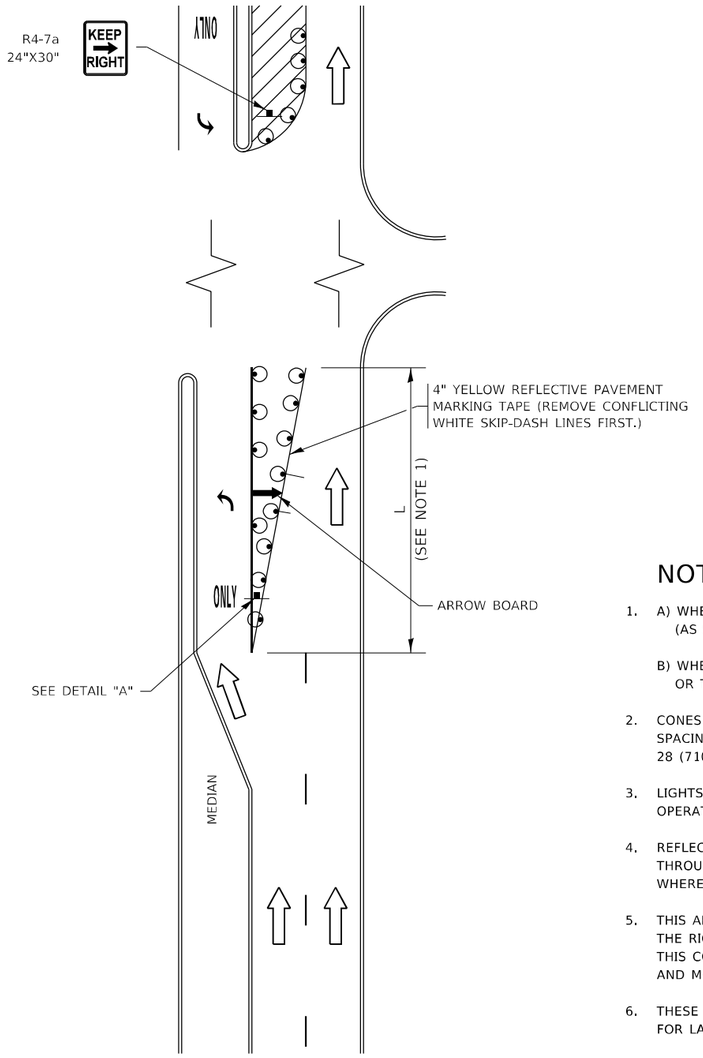


FIGURE 1

LEGEND

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

NOTES:

1. A) WHEN "L" IS ≤ 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-I100R 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 PREQUIREMENTS.

8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

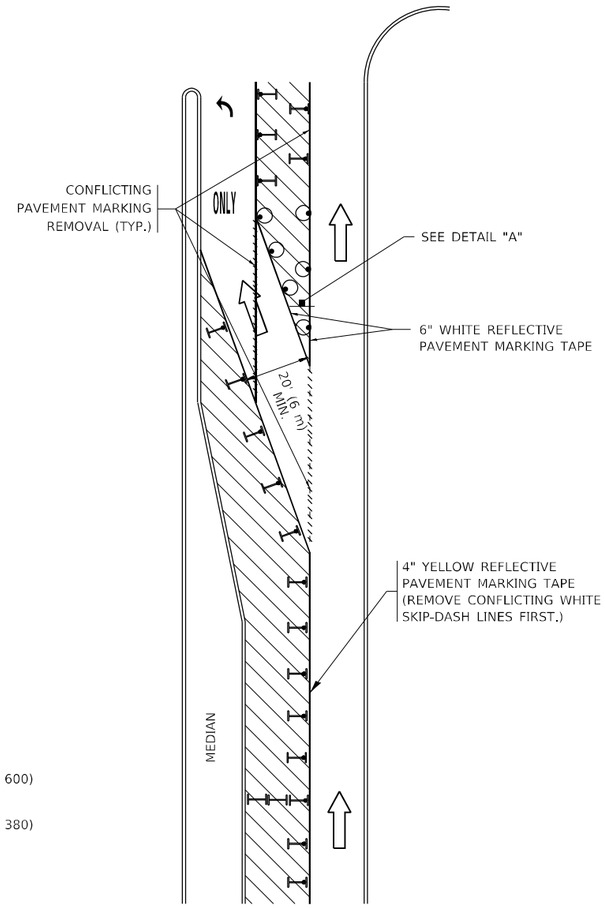
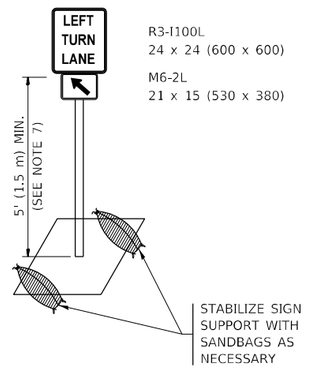


FIGURE 2



DETAIL A

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

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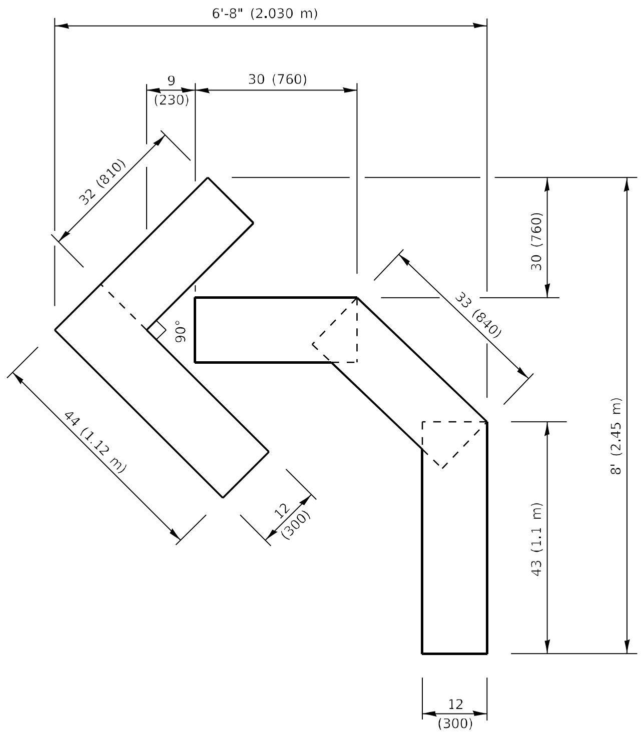
USER NAME = yaseen.qureshi	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13	
PLOT SCALE = 100.0000 ' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	
PLOT DATE = 12/16/2022	DATE - T. RAMMACHER 01-06-00	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

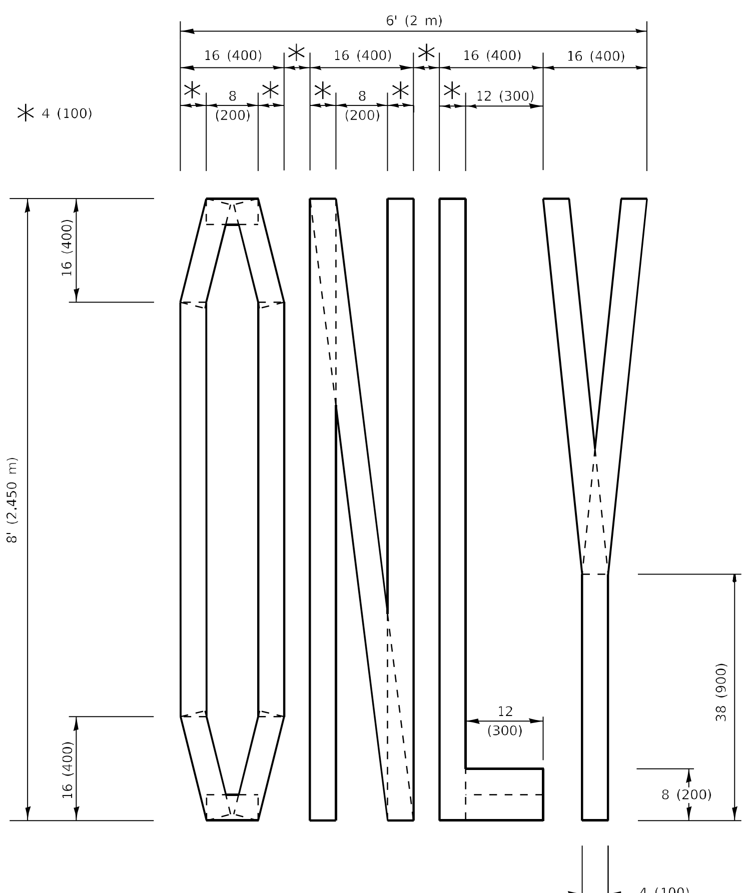
SCALE: NONE | SHEET 1 OF 1 SHEETS | STA. | TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	60
	TC-14	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			



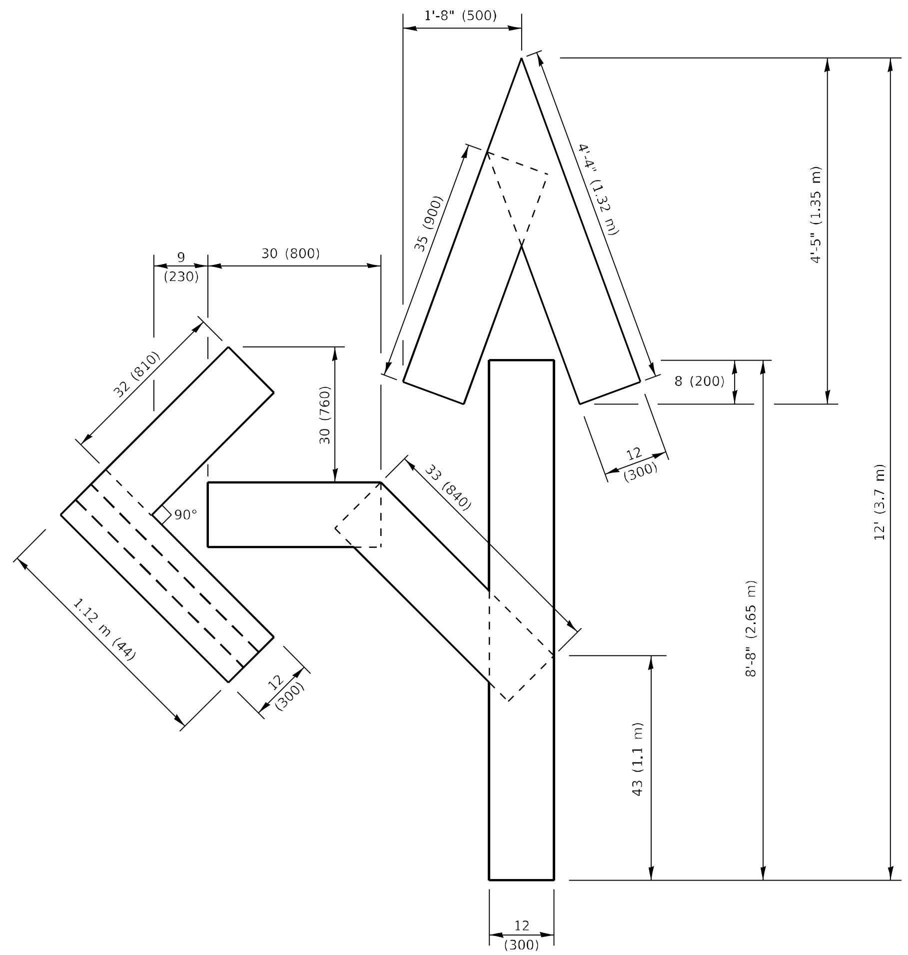
QUANTITY

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



QUANTITY

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

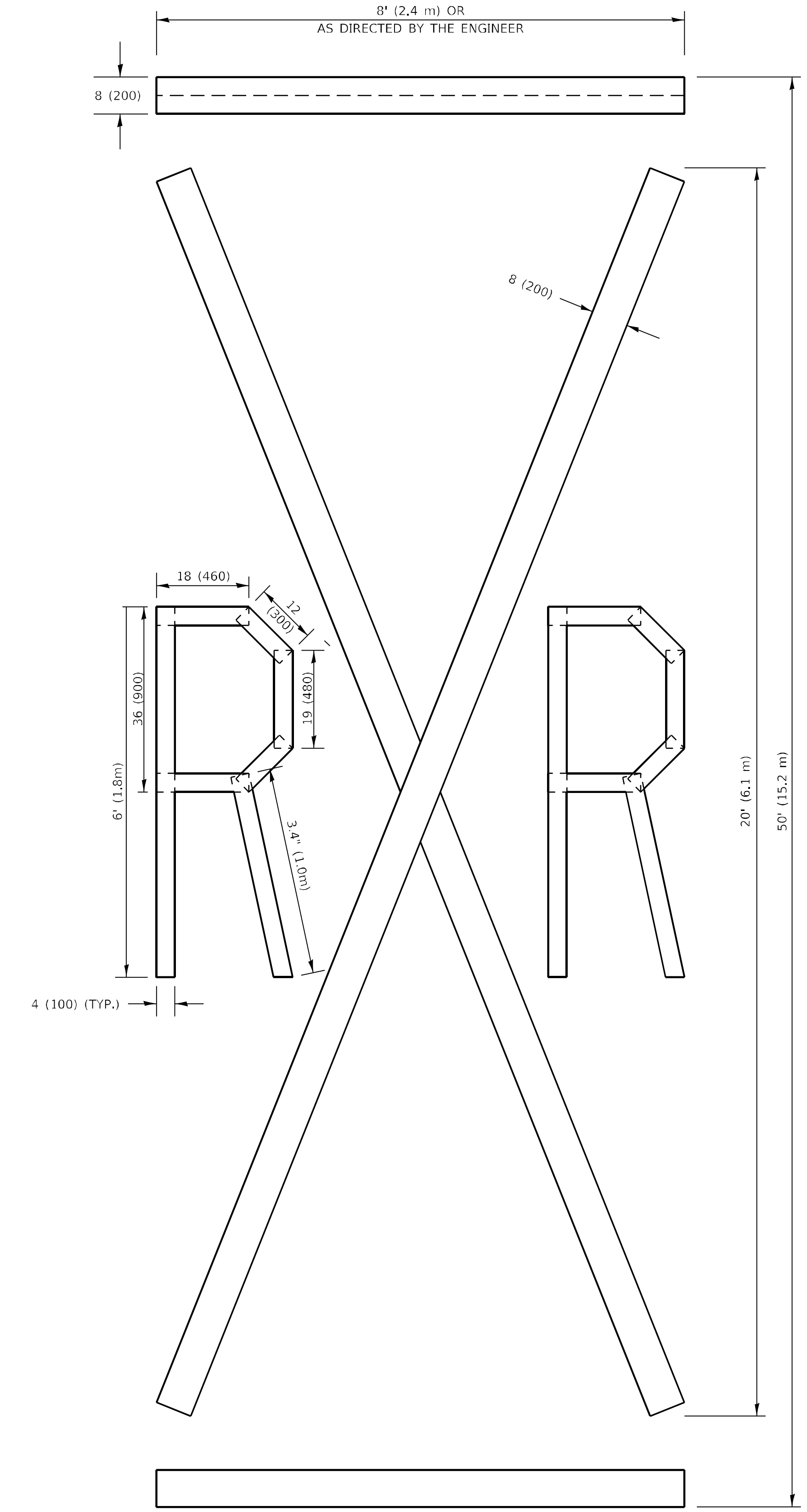


QUANTITY

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

NOTE:

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



QUANTITY

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

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

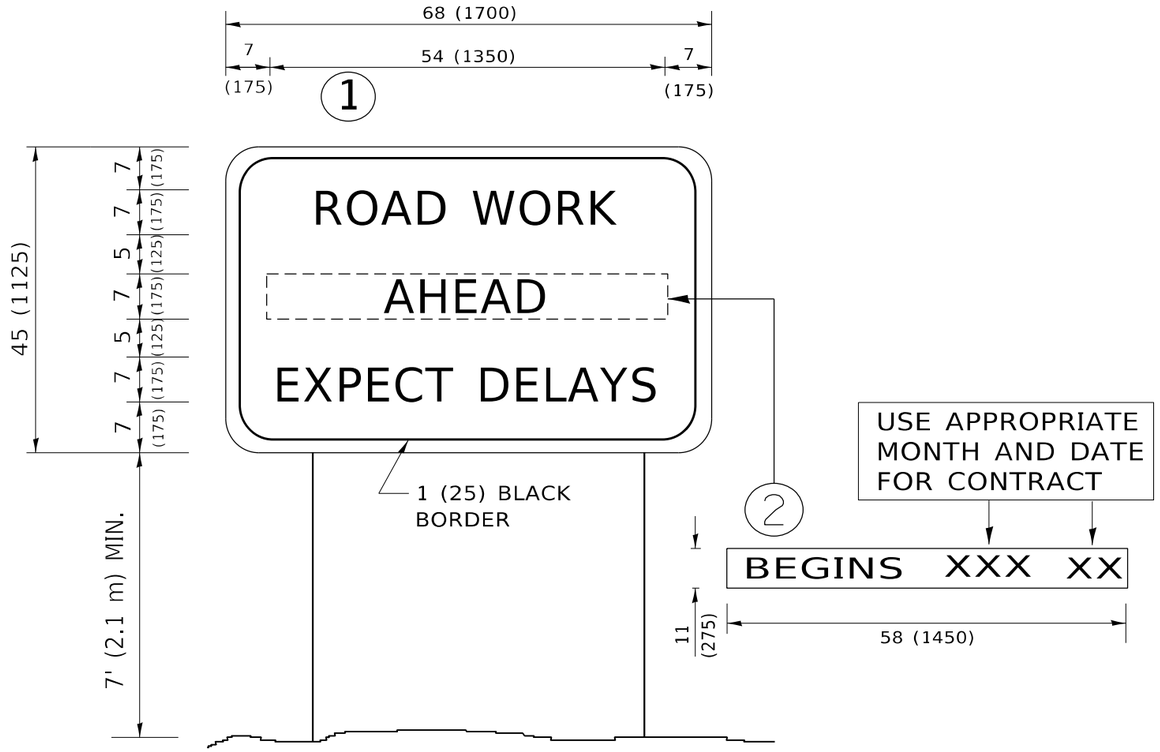
MODEL: Default
FILE NAME: pw:\\ildot-pw.bentley.com:PWIDOT\Documents\IDOT Offices\District 1\Projects\D1123\CADData\Design\DistStd.dgn

USER NAME = yaseen.qureshi	DESIGNED -	REVISED - T. RAMMACHER 03-02-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
	DRAWN -	REVISED - E. GOMEZ 08-28-00	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00	
PLOT DATE = 12/16/2022	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16	

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	61
	TC-16	CONTRACT NO. 62R17		
	ILLINOIS	FED. AID PROJECT		



NOTES:

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

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

USER NAME = yaseen.qureshi	DESIGNED -	REVISED -	R. MIRS 09-15-97
	DRAWN -	REVISED -	R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99
PLOT DATE = 12/16/2022	DATE -	REVISED -	C. JUCIUS 01-31-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

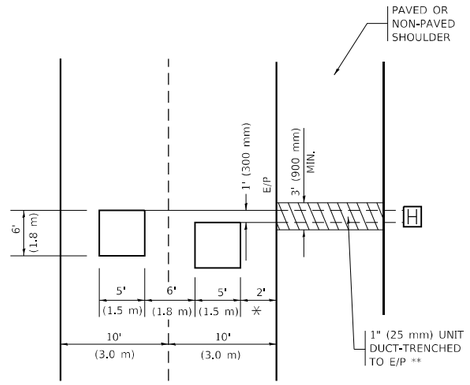
ARTERIAL ROAD INFORMATION SIGN

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	62
	TC-22	CONTRACT NO.	62R17	
	ILLINOIS FED. AID PROJECT			

LOOPS NEXT TO SHOULDERS

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



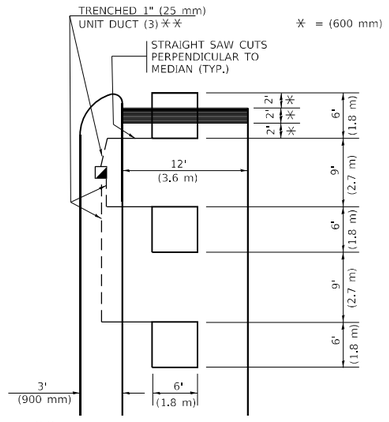
* = (600 mm)

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

LEFT TURN LANES WITH MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

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



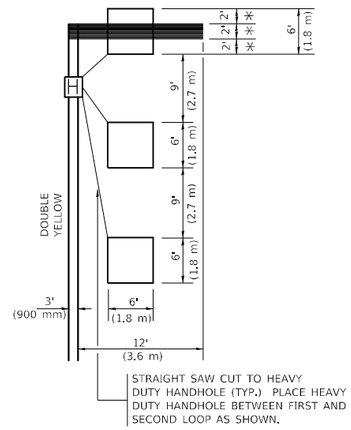
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY (''FAR OUT'' DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

* = (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.

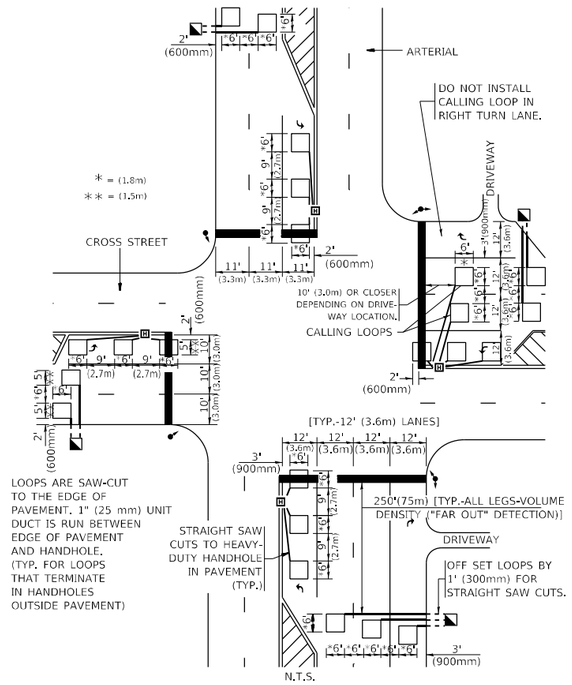
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

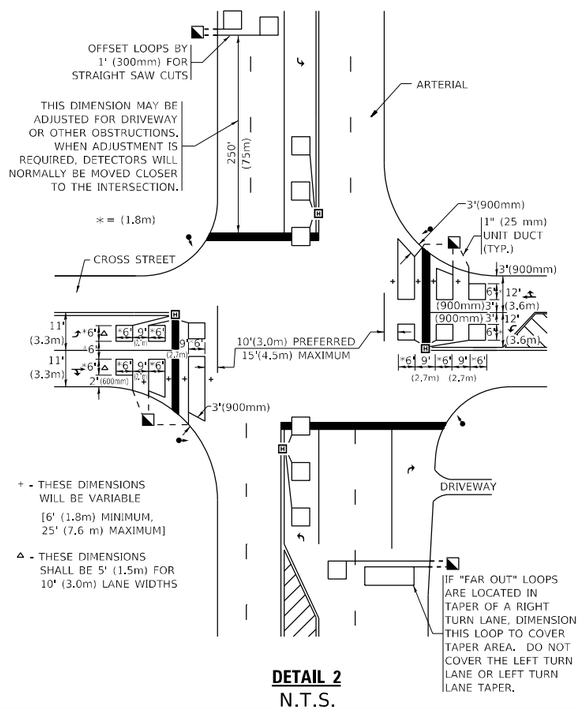
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



DETAIL 1
N.T.S.

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



DETAIL 2
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USER NAME = yaseen.qureshi	DESIGNED -		REVISED -
	DRAWN -		REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED -	R.K.F.	REVISED -
PLOT DATE = 12/16/2022	DATE -		REVISED -

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.

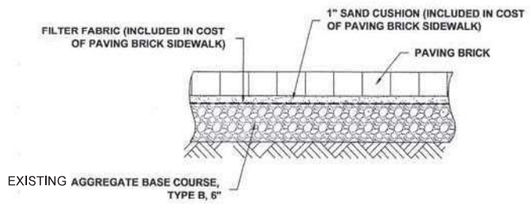
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3514	FAU 3514 21 RS	COOK	63	63
	TS-07	CONTRACT NO. 62R17		
	ILLINOIS FED. AID PROJECT			

NOTES

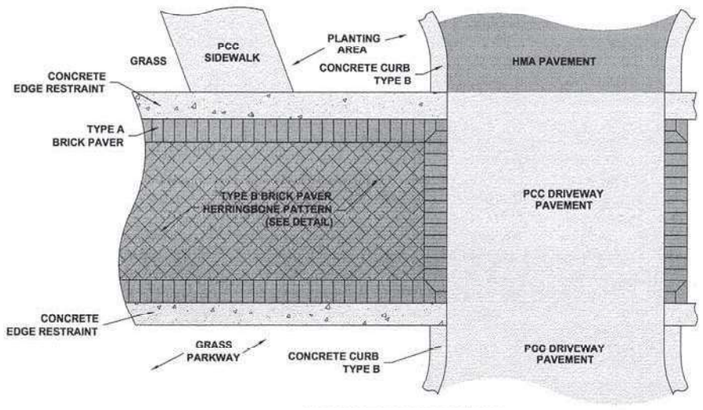
DETECTABLE WARNING PANELS SHALL BE COLONIAL RED IN COLOR.

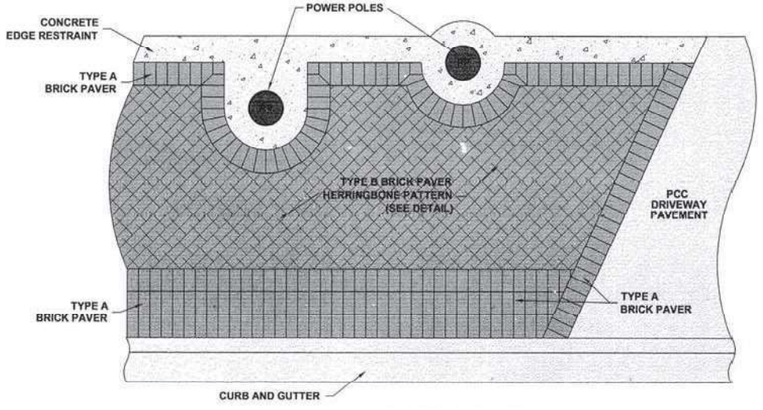
NEW TRAFFIC SIGNAL POSTS SHALL BE PAINTED SEMI-GLOSS BLACK.

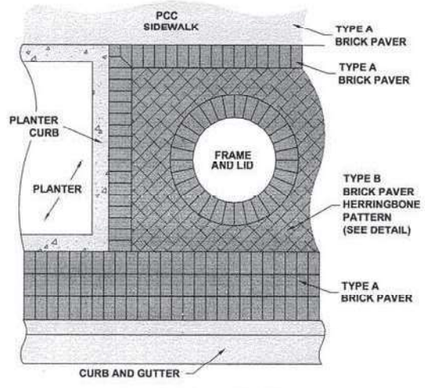
THE VILLAGE PUBLIC WORKS DEPARTMENT
SHALL BE NOTIFIED AT LEAST TWO (2) WORKING DAYS PRIOR TO ANY CONSTRUCTION ACTIVITY.
CONTACT MATT LAWRIE, VILLAGE OF MOUNT PROSPECT VILLAGE ENGINEER, AT MLAWRIE@MOUNTPROSPECT.ORG.

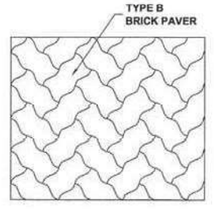


PAVING BRICK SIDEWALK









TYPE B BRICK PAVER HERRINGBONE PATTERN DETAIL

PAVING BRICK SIDEWALK PATTERN DETAIL

USER NAME -	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SIDEWALK DETAILS, TYP. VILLAGE OF MOUNT PROSPECT	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED -			344	FAU 3514 21 RS	COOK	63	63A
PLOT SCALE -	CHECKED -	REVISED -					CONTRACT NO. 62R17		
PLOT DATE -	DATE -	REVISED -		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1	ILLINOIS FED. AID PROJECT			