D-91-534-20

# **DEPARTMENT OF TRANSPORTATION**

PROJECT LOCATED IN THE CITY OF CHICAGO, CITY OF HOMETOWN, AND THE VILLAGE OF **EVERGREEN PARK** 

TRAFFIC DATA 2018 ADT = 20.300 TO 28.100 VPD

POSTED SPEED LIMIT 35 TO 40 MPH

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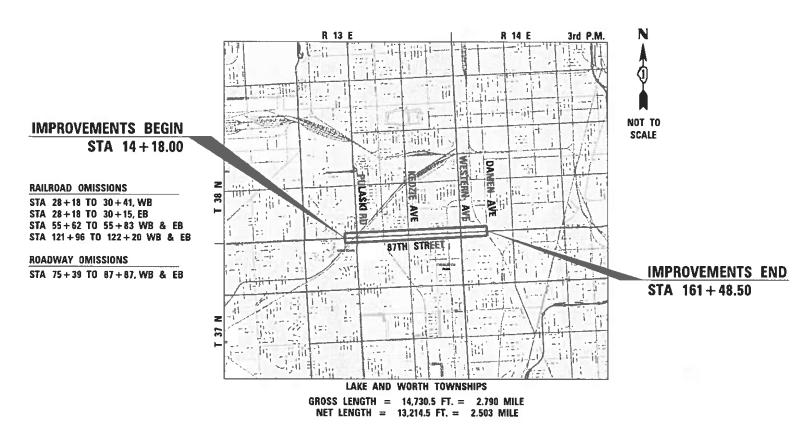
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# **PROPOSED** HIGHWAY PLANS

FAP ROUTE 395: 87th STREET **KEELER AVE TO DAMEN AVE SECTION 2020–134–RS** PROJECT NHPP-30JL(994) **SMART OVERLAY & ADA IMPROVEMENTS COOK COUNTY** 

C-91-332-20



PROJECT ENGINEER: VESELIN VELICHKOV (847) 705-4432 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS

ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

CONTRACT NO. 62M12

CHICAGO UTILITY ALERT NETWORK

1-312-744-7000 OR DIGGER 811

1-800-892-0123 OR 811

C.U.A.N.



PAUL J. FITZPATRICK ILLINOIS REG. PROFESSIONAL ENGINEER NO. 062-047687 EXPIRATION DATE 11-30-2021

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

LOCATION OF SECTION INDICATED THUS; - -

# **INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	GENERAL NOTES, INDEX OF SHEETS & HIGHWAY STANDARDS
3-7	SUMMARY OF QUANTITIES
8	EXISTING AND PROPOSED TYPICAL SECTIONS
9-14	ROADWAY AND PAVEMENT MARKING PLANS
15	DETECTOR LOOP REPLACEMENT PLAN
16-26	ADA RAMP IMPROVEMENT PLANS
27	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
28	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
29	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
30	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
31	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
32	TYPICAL APPLICATIONS RAISED REFELCTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
33	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
34	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
35	ARTERIAL ROAD INFORMATION SIGN (TC-22)
36-37	TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS (TC-23)
38-40	CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS (TC-24)
41	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)
42	PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS (PD-01)
43	PROJECT DETAIL FOR SINGE PERPENDICULAR CURB RAMPS W/ TURNING SPACE (PD-04)
44	EXISTING TRAFFIC CONTROL SIGNALS - 87TH STREET TO WESTERN AVE - FOR REFERENCE ONLY
45	EXISTING VEHICLE DETECTOR LOOP DETAIL 905 - FOR REFERENCE ONLY

# INDEX OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALK
424006-05	DIAGONAL CURB RAMPS FOR SIDEWALK
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALK
424021-06	DEPRESSED CORNER FOR SIDEWALK
442201-03	CLASS C AND D PATCHES
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS <= 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDIED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

# **GENERAL NOTES**

- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, THE CITY OF CHICAGO, THE CITY OF HOMETOWN, AND THE VILLAGE OF EVERGREEN PARK. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 AND "CUAN" 312-744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOUR NOTIFICATIN REQUIRED).
- 2. THE CONTRACTOR WILL NOT BE ALLOWED TO SETUP A YARD FOR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSIONS FROM THE DEPARTMENT.
- 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.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOILD SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION ACTIVITIES.
- 6. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- 7. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTERS AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- 8. LIMITS OF RESURFACING ON SIDE STREETS THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER / TECHNICIAN.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 10. ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE ADJUSTMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 11. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING SLOPE IS A MINIMUM OF 1:3 (V:H).
- 12. BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- 13. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 14. DOUBLE LANE MARKERS SHALL BE USED AS SHOWN ON THE DISTRICT ONE DETAIL
  "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)"
  SHEET INCLUDED IN THE PLANS.
- 15. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- 16. THE RESIDENT ENGINEER SHALL CONTACT MR. EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT EMAD.ALHUSSEINI@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 17. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE).
- 18. PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS, APPLICATE STATE HIGHWAY STANDARDS, AND THESE PLANS, OR AS DETERMINED BY THE ENGINEER.
- 19. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

USER NAME = ndp	DESIGNE	D - NDP	REVISED	=
	DRAWN	- NDP	REVISED	=
PLOT SCALE = 20.0000 '/	in. CHECKEE	- PJF	REVISED	=
PLOT DATE = 12/10/2020	DATE	- 12/04/20	20 REVISED	-

				CONSTRUC	CTION CODE
				80% FED 20% STATE	100% STATE
CODE	ITEM	UNIT	TOTAL	ROADWAY 0005	ROADWAY 0005
NO .	· · · · · ·		QUANTITY	URBAN	URBAN
20200100	EARTH EXCAVATION	CU YD	100	100	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	38	38	
25200110	SODDING, SALT TOLERANT	SQ YD	38	38	
25200200	SUPPLEMENTAL WATERING	UNIT	1	1	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	47,661	47,661	
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	159	159	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	959	959	
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	10,380	10,380	
42001300	PROTECTIVE COAT	SQ YD	613	613	
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SQ YD	11	11	
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3,550	3,550	
42400800	DETECTABLE WARNINGS	SQ FT	386	386	
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SQ YD	105,913	105,913	
44000600	SIDEWALK REMOVAL	SQ FT	3,550	3,550	
44201789	CLASS D DATCHES TYPE II 12 INCH	SQ YD	574	574	
44201/89	CLASS D PATCHES, TYPE II, 12 INCH	טז ענ	3/4	374	

		CONSTRUCTION CODE			
				80% FED	100% STATE
			I	20% STATE	DOADWAY
CODE	I TENA		TOTAL	ROADWAY	ROADWAY
NO.	ITEM	UNIT	QUANTITY	0005	0005
				URBAN	URBAN
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	180	180	
		34 12	100	100	
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	60	60	
11201733		34 15			
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	5	5	
				-	
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	5	5	
			-	-	
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	21	21	
60300405	VALVE BOX FRAMES TO BE ADJUSTED	EACH	5	5	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	100	100	
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MC	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70103633	TRAFFIC CONTROL AND PROTECTION CTANDARD 701501		1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1	
/0102023	TRAILIE CONTROL AND INCILCITON, STANDARD /01000	L 30M	1	1	

<sup>\*</sup> SPECIALTY ITEM

SCALE:

SUMMARY OF QUANTITIES								
8	7TH STRI	EET (K	EELI	ER AVE	T0	DAMEN	AVE)	
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CONSTRUCTION CODE

		CONSTRUCTION CODE			
				80% FED	100% STATE
				20% STATE ROADWAY	ROADWAY
CODE	ITEM	UNIT	TOTAL	0005	0005
NO.	· · <u>-</u> · ·		QUANTITY	URBAN	URBAN
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102634	TRAFFIC CONTROL AND PROTECTION, STANDARD 701611	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8,773	8,773	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	4,889	4,889	
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	2,025	2,025	
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	34,601	34,601	
		<u></u>		1	
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	2,930	2,930	
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	114	114	
				1	h
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	306	306	
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	4,230	4,230	
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5,893	5,893	
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,025	2,025	
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	34,601	34,601	
78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2,930	2,930	
70000400	THE MIDIE ASTRO TAVENERY MARKING TENE O	1001	2,330	2,330	

\* SPECIALTY ITEM

DESIGNED NDP REVISED USER NAME = ndp DRAWN - NDP REVISED CHECKED - PJF

DATE - 12/04/2020 PLOT SCALE = 20.0000 ' / in. REVISED PLOT DATE = 12/10/2020 REVISED +

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES 87TH STREET (KEELER AVE TO DAMEN AVE) SHEET 3 OF 5 SHEETS STA.

CONSTRUCTION CODE

SECTION 2020-134-RS

			* SPECIALTY ITEM		**	· · · · · · · · · · · · · · · · · · ·				REV-	-SEF
Ī.,	Engineering Group, LLC  Engineering Group  Lupseering  Engineering Group  Lupseering  Engineering Group  Lupseering  Engineering Group  Engineering  Engineering	USER NAME = ndp	DESIGNED NDP	REVISED -		SUMMARY OF QUANTITIES	F.A.P.	SECTION	COUNTY	TOTAL	SHEE NO.
48			DRAWN - NDP	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		395	2020-134-RS	соок	45	6
		PLOT SCALE = 20.0000 ' / in.	CHECKED PJF	REVISED =		87TH STREET (KEELER AVE TO DAMEN AVE)			CONTRACT	T NO. 6	2M12
<u></u>		PLOT DATE = 12/10/2020	DATE 12/04/2020	REVISED +		SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.		ILLINOIS FED.			
							-				

CODE NO.	ITEM	UNIT	TOTAL QUANT I TY	ROADWAY  0005	ROADWAY 0005
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	114	URBAN 114	URBAN
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	306	306	
78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	4,230	4,230	-
					-
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	982	982	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	982	982	
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	6	6	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	647	647	
89502376	REBUILD EXISTING HANDHOLE	EACH	1	1	
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	1
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR	FOOT	315	315	
	EQUAL TO 10 FEET				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1,520		1,520
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	175	175	7
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	23,865	23,865	
V0120120	DELOCATE EVICTING HINGTION DOV	FAC	1	1	
X8130120	RELOCATE EXISTING JUNCTION BOX	EACH	1	1	

CONSTRUCTION CODE

100% STATE

80% FED 20% STATE

						TION CODE
					80% FED 20% STATE	100% STATE
					ROADWAY	ROADWAY
	CODE	ITEM	UNIT	TOTAL	0005	0005
	NO.	11611	ONTT	QUANTITY	URBAN	URBAN
					URBAN	URBAN
	Z0004562	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	665	665	
3				,		
	,			,	,	,
*	Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	152		152
3	20010300	BRATINAGE STRUCTURES TO BE CELEMED	EACH	132		132
Š						1
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	51.4	51.4	
ï	Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	49,000	49,000	
	20033700	LONGITUDINAL JUINI SLALANI	1001	49,000	49,000	
50						
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
1						1
1	Z0051500	REMOVING AND RESETTING STREET SIGNS	EACH	7	7	
	20051500	REMOVING AND RESEITING STREET SIGNS	EACH	,	,	
Ø	Z0076600	TRAINEES	HOURS	500	500	
1						
Ø	Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	
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\* SPECIALTY ITEM

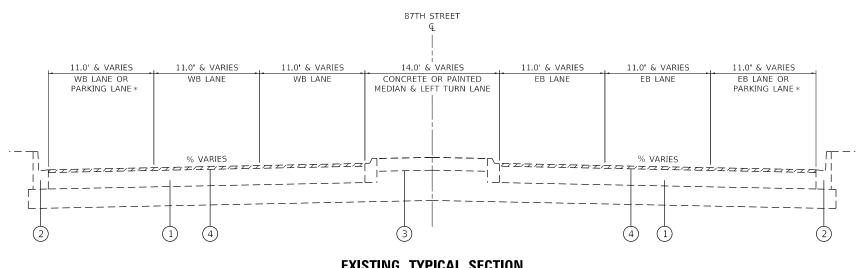
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STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

	SUMMARY OF QUANTITIES									
87TH STREET (KEELER AVE TO DAMEN AVE)										
	CHEET	-	ΩΓ	-	CHEETC	СТА		TO	СТА	

CONSTRUCTION CODE

				_	REV-	SEP
A.P. RTE.	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
395	2020-1	2020-134-RS		соок	45	7
				CONTRACT	NO. 62	2M12
		ILLINOIS	D PROJECT			



# **EXISTING TYPICAL SECTION**

STA 14+18.00 TO STA 161+48.50 WITH OMISSIONS AS NOTED

# \* PARKING LANES

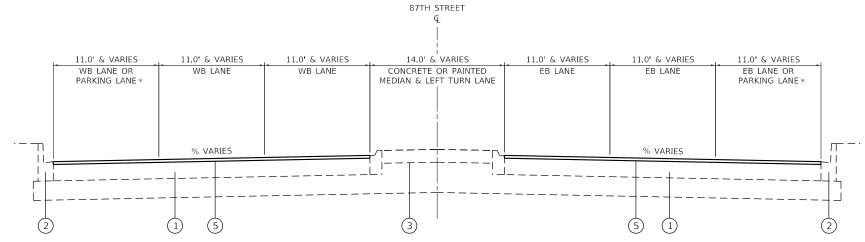
STA 14+18 TO STA 25+44, WB STA 87+87 TO STA 121+62, WB/EB

# RAILROAD OMISSIONS

STA 28+18 TO STA 30+41, WB STA 28+18 TO STA 30+15, EB STA 55+62 TO STA 55+83, WB/EB STA 121+96 TO STA 122+20 WB/EB

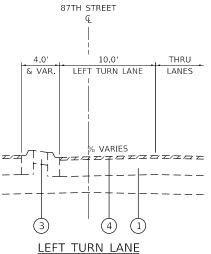
# **ROADWAY OMISSIONS**

STA 75+39 TO STA 87+87, WB/EB



# PROPOSED TYPICAL SECTION

STA 14+18.00 TO STA 161+48.50 WITH OMISSIONS AS NOTED



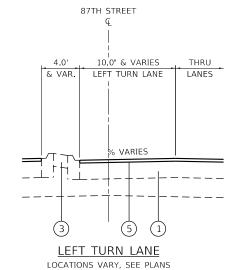
# LOCATIONS VARY, SEE PLANS

# LEGEND

- (1) EXISTING HMA PAVEMENT STRUCTURE
- EXISTING COMB CONCRETE CURB & GUTTER
- EXISTING CONCRETE MEDIAN
- (4) PROPOSED HMA SURFACE REMOVAL, 13/4"
- PROPOSED POLY HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1¾"

### NOTES:

FOR THE EXISTING HMA SURFACE, THE CONTRACTOR SHALL PERFORM ALL PAVEMENT PATCHING PRIOR TO MILLING OPERATIONS. THEN THE CONTRACTOR MAY BEGING MILLING THE ROADWAY. PER BD-22 DETAIL.



HOT-MIX ASPHALT MIXTURE REQUIREMEN	QUALITY MANAGEMENT	
MIXTURE TYPE	PLAN (QMP)	
PAVEMENT RESURFACING		
POLYERIZED HOT-MIX ASPLAHT SURFACE COURSE, IL-9.5, MIX "E", N70, 13/4"	4% @ 70 GYR.	PFP
PAVEMENT PATCHING		
CLASS D PATCHES, (HMA BINDER IL-19.0 MM)	4% @ 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY	CONTROL FOR PERFORM	ANCE (QCP);
PAY FOR PERFORMANCE (PFP)		

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPAHLT SURFACE MIXTURE QUANTITIES
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS OTHERWISE MODIFIED BY SPECIAL PROVISIONS.
- NOTE 3: "QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL
- SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

  NOTE 4: THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

  NOTE 5: FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

Vll.: .	477 South Third Street Suite 280	USEF
Kaskaskia Engineering Group, LLC	Geneva, Illinois 60134 630.332.9157 phone www.kasikasikiaeno.com	
PROFESSIONAL REGISTRATIONS	LICENSE NO.	PLOT
Hinois Professional Design Firm Professional Engineering Group	184.064773 20-5080586	DI OT

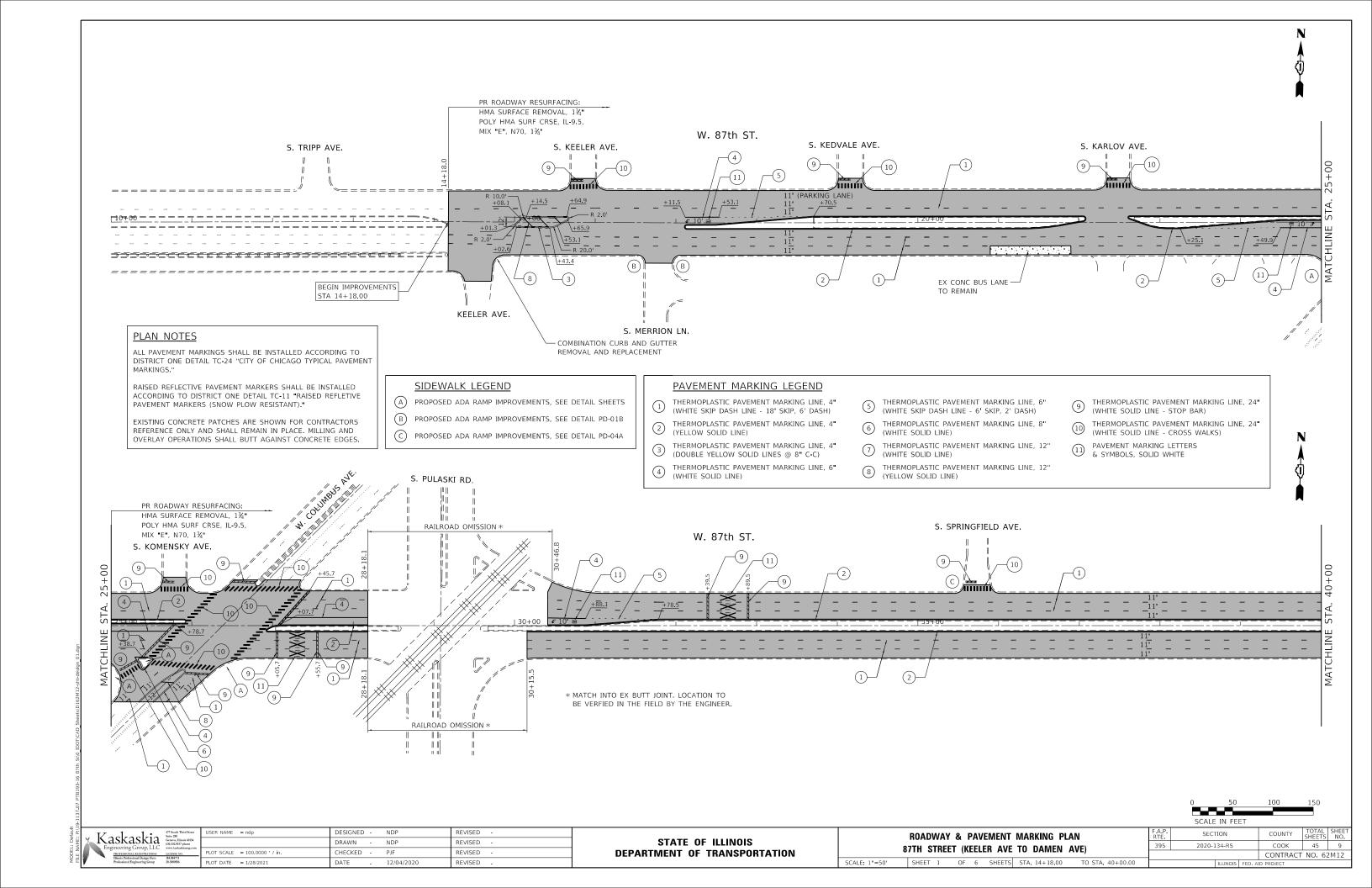
	USER NAME = ndp	DESIGNED -	NDP	REVISED -	
		DRAWN -	NDP	REVISED -	
10	PLOT SCALE = 10.0000 / in.	CHECKED -	PJF	REVISED -	
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -	

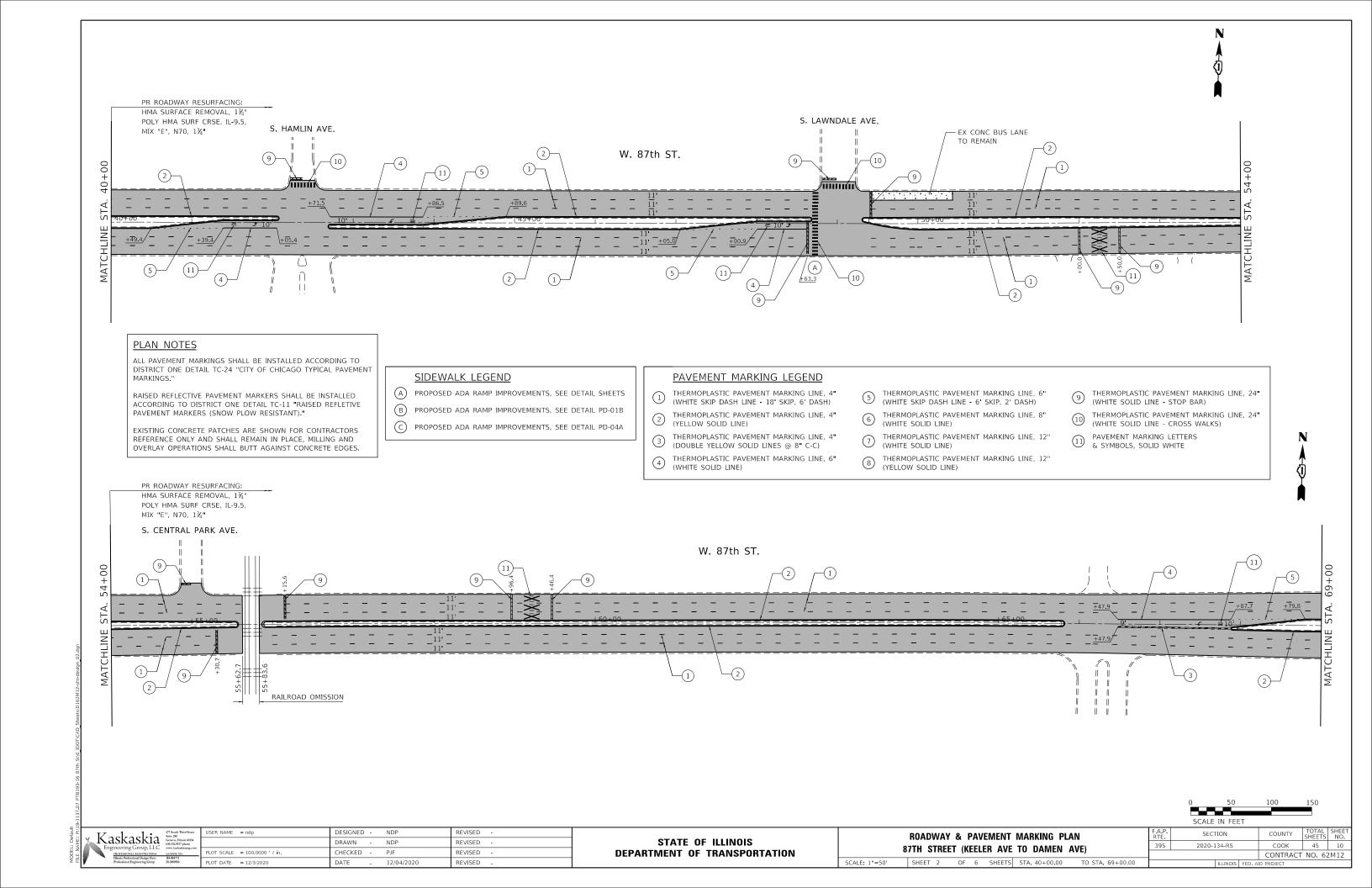
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

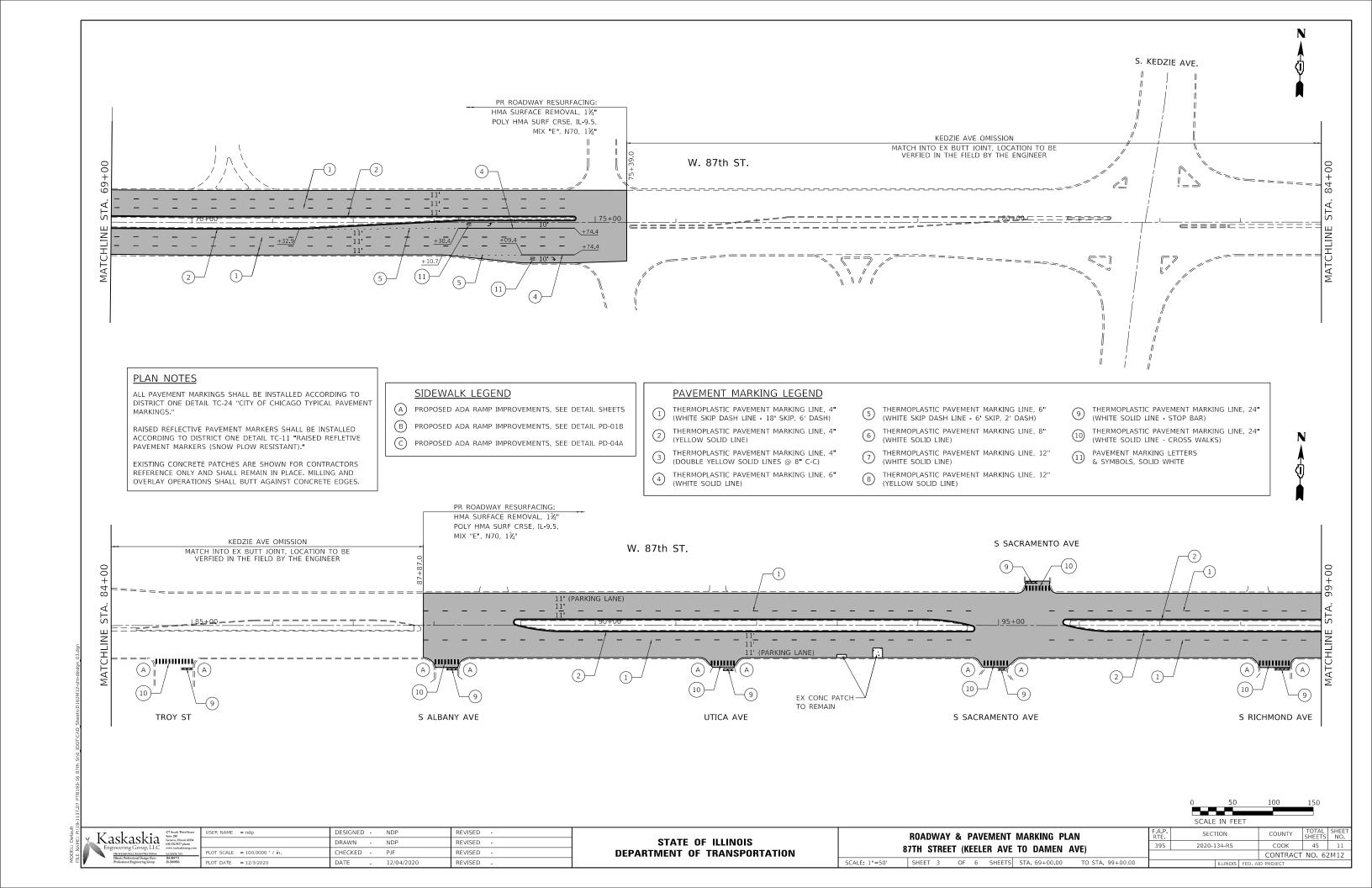
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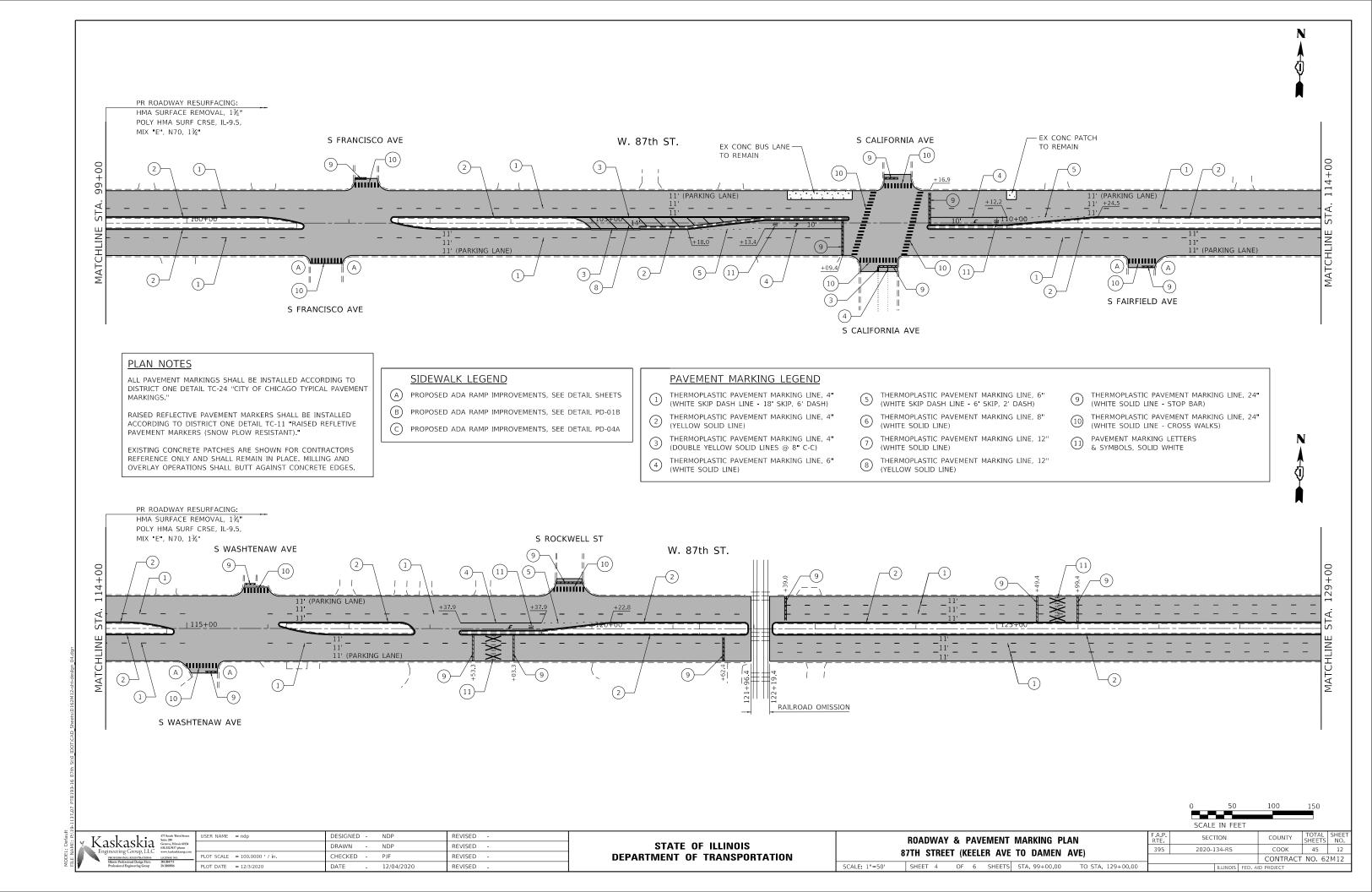
SHEET

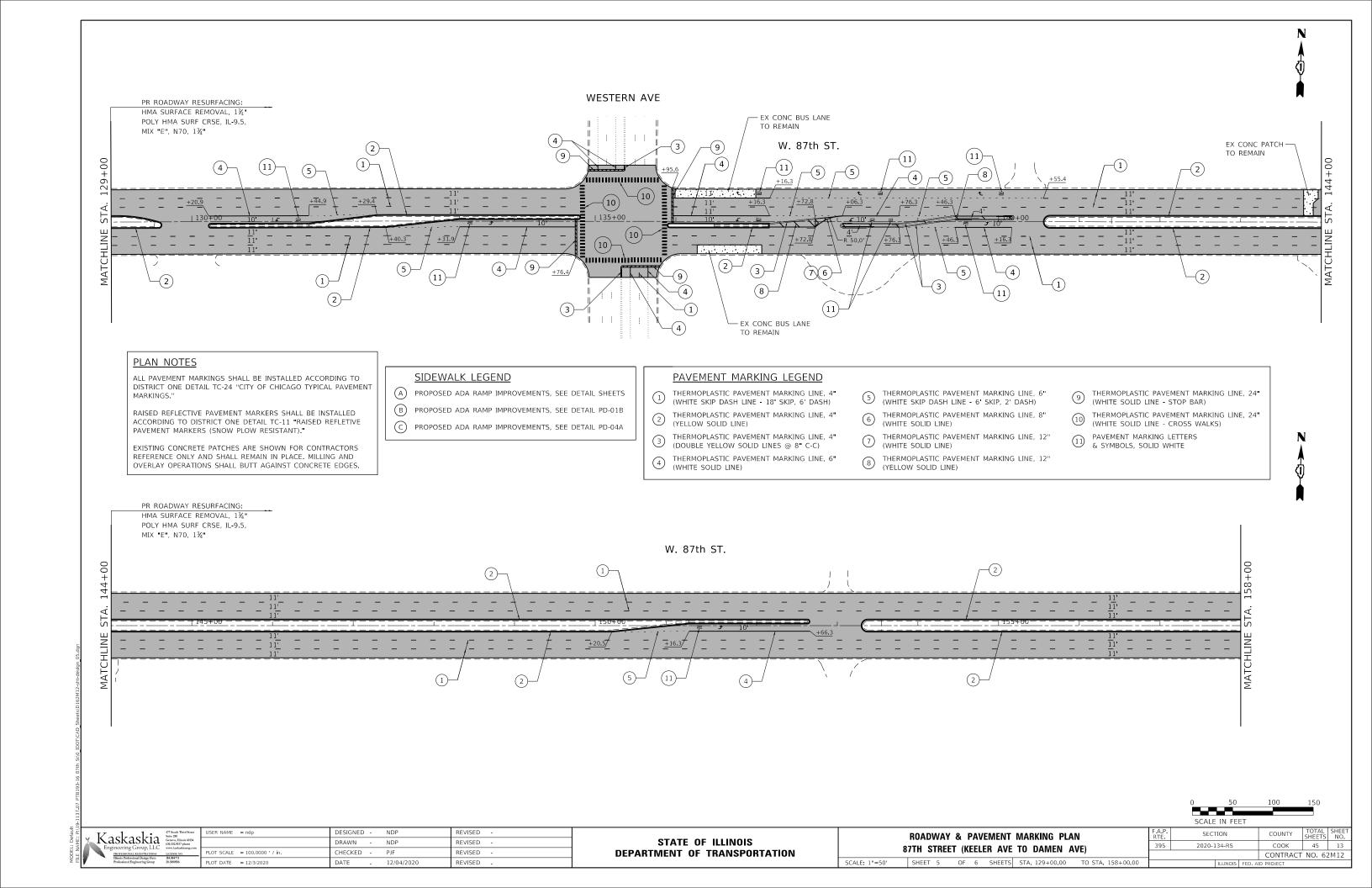
EXISTING & PROPOSED TYPICAL SECTIONS		SECTION	COUNTY	TOTAL SHEETS	
87TH STREET (KEELER AVE TO DAMEN AVE)	395	2020-134-RS	соок	45	8
WITH STREET (RELEEN AVE TO DAMEN AVE)			CONTRACT	NO. 62	2M12
CUEET 1 OF 1 CUEETC CTA TO CTA					



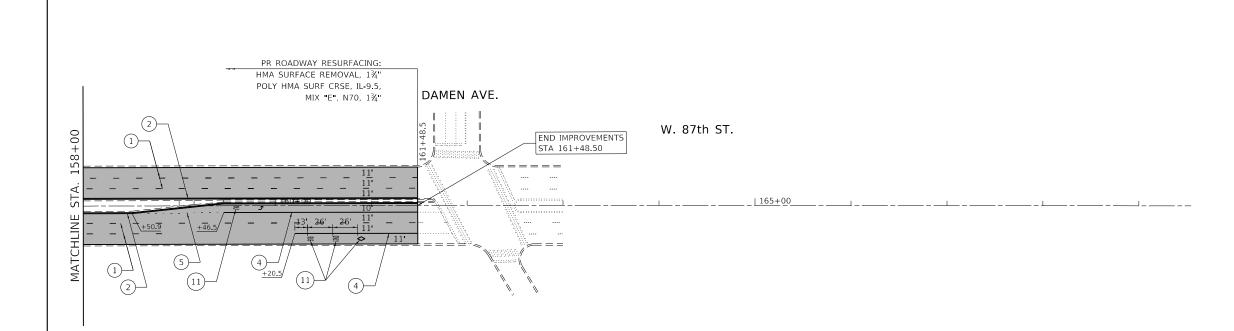














# PLAN NOTES

ALL PAVEMENT MARKINGS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-24 "CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS."

RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE INSTALLED ACCORDING TO DISTRICT ONE DETAIL TC-11 "RAISED REFLETIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)."

EXISTING CONCRETE PATCHES ARE SHOWN FOR CONTRACTORS REFERENCE ONLY AND SHALL REMAIN IN PLACE. MILLING AND OVERLAY OPERATIONS SHALL BUTT AGAINST CONCRETE EDGES.

# SIDEWALK LEGEND

- A PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL SHEETS
- B) PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-01B
- © PROPOSED ADA RAMP IMPROVEMENTS, SEE DETAIL PD-04A

# PAVEMENT MARKING LEGEND

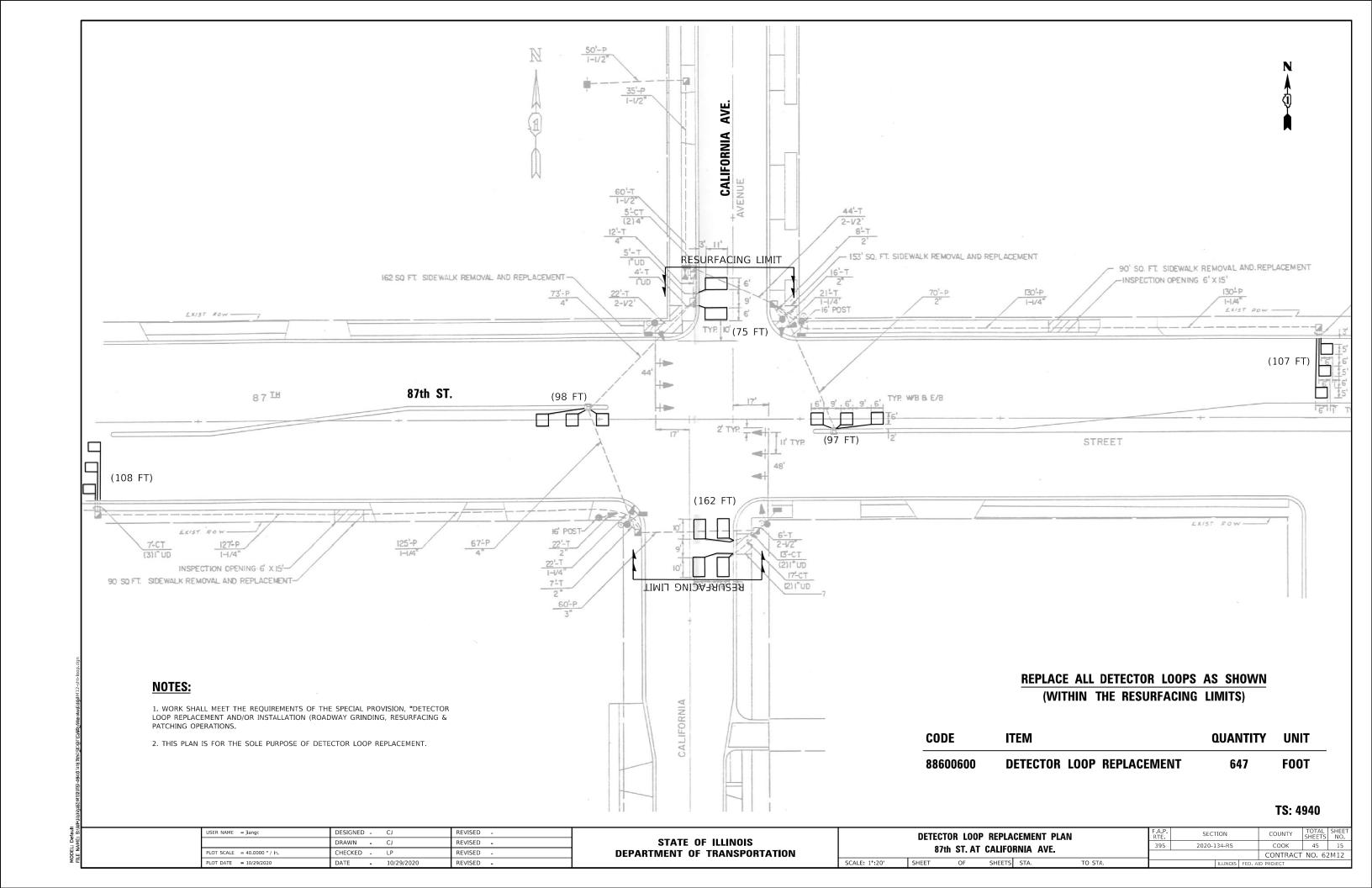
- THERMOPLASTIC PAVEMENT MARKING LINE, 4" (WHITE SKIP DASH LINE 18' SKIP, 6' DASH)
- THERMOPLASTIC PAVEMENT MARKING LINE, 4" (YELLOW SOLID LINE)
- THERMOPLASTIC PAVEMENT MARKING LINE, 4" (DOUBLE YELLOW SOLID LINES @ 8" C-C)
- THERMOPLASTIC PAVEMENT MARKING LINE, 6" (WHITE SOLID LINE)
- 5 THERMOPLASTIC PAVEMENT MARKING LINE, 6" (WHITE SKIP DASH LINE 6' SKIP, 2' DASH)
- 6 THERMOPLASTIC PAVEMENT MARKING LINE, 8" (WHITE SOLID LINE)
- THERMOPLASTIC PAVEMENT MARKING LINE, 12" (WHITE SOLID LINE)
- 8 THERMOPLASTIC PAVEMENT MARKING LINE, 12" (YELLOW SOLID LINE)
- THERMOPLASTIC PAVEMENT MARKING LINE, 24" (WHITE SOLID LINE STOP BAR)
- THERMOPLASTIC PAVEMENT MARKING LINE, 24" (WHITE SOLID LINE CROSS WALKS)
- PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE

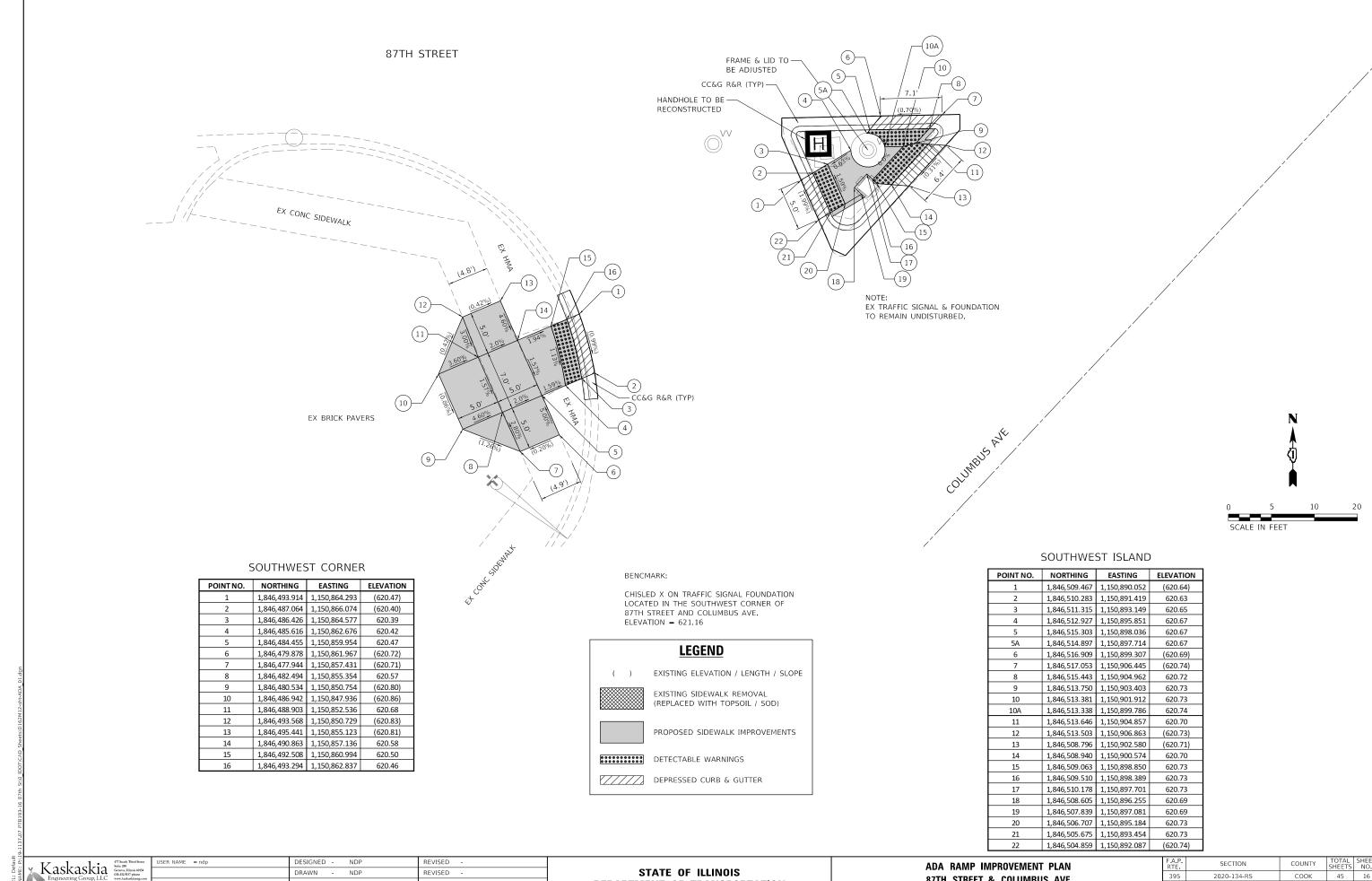
Kaskaskia Engineering Group, LLC	477 South Third Street Suite 280 Geneva, Illinois 60134 630.332.9157 phone www.ksskaskiaeng.com
PROFESSIONAL REGISTRATIONS	LICENSE NO.
Illinois Professional Design Firm	184,004773
Professional Engineering Group	20-5080586

	USER NAME = ndp	DESIGNED -	NDP	REVISED -
		DRAWN -	NDP	REVISED -
_	PLOT SCALE = 100.0000 ' / in.	CHECKED -	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

ROADWAY & PAVEMENT MARKING PLAN									
8	7TH STREE	T (K	EELI	ER AVE	TO DAMEN A	/E)			
SCALE: 1"=50'	SHEET 6	OF	6	SHEETS	STA. 158+00.00	TO STA. 161+48.50			

F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
395	2020-134-RS			соок	45	14
				CONTRACT	NO. 62	2M12
		ILLINOIS	EED Δ	ID PROJECT		





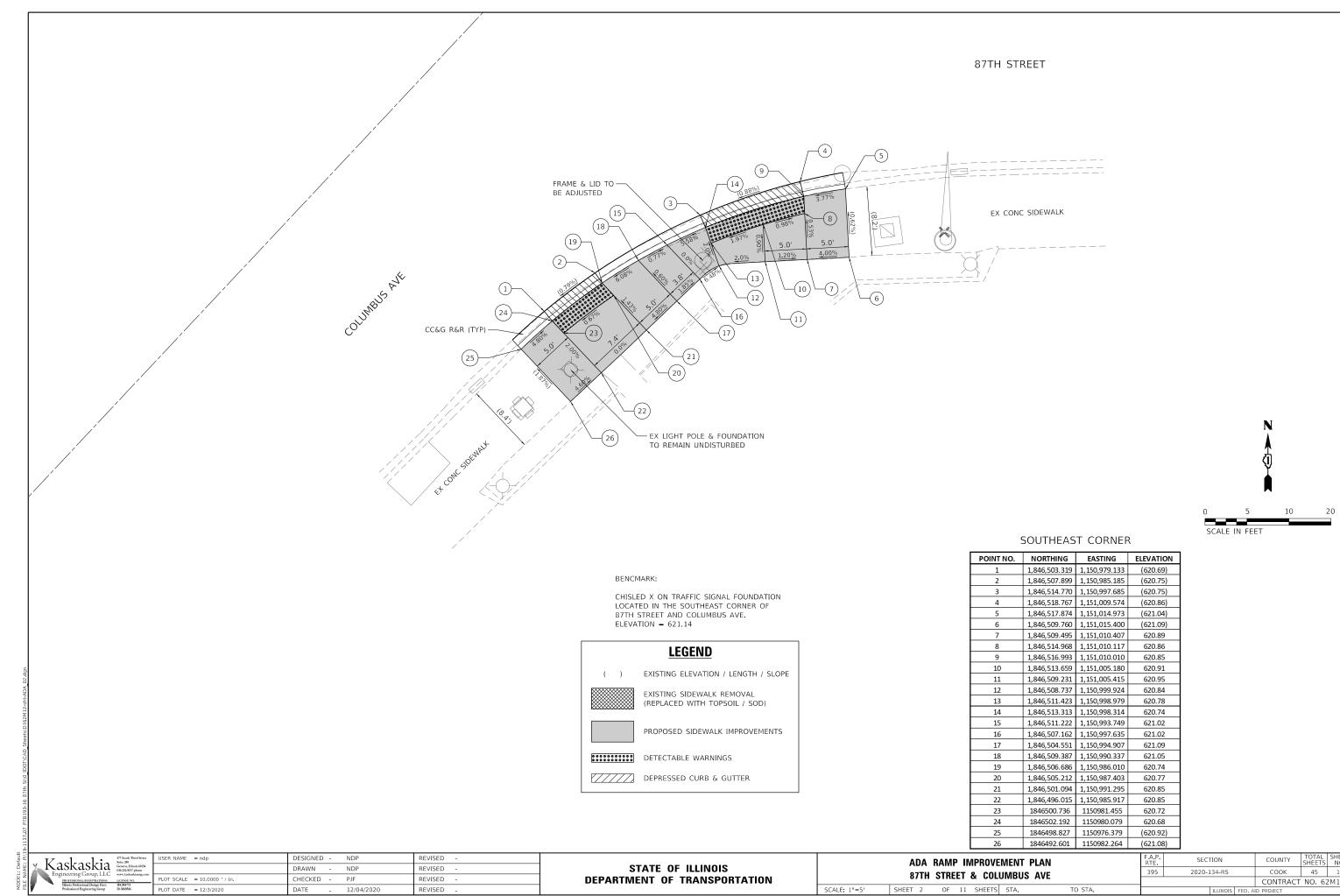
PJF REVISED PLOT DATE = 12/3/2020 REVISED

**DEPARTMENT OF TRANSPORTATION** 

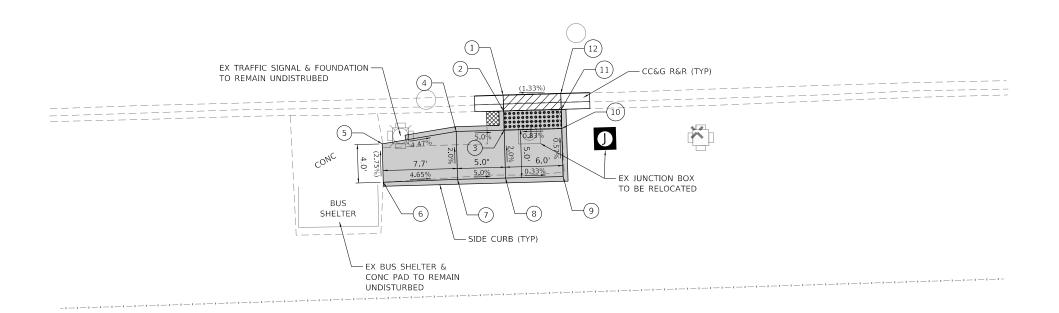
					MENT I	
SCALE: 1"=5"	SHEET 1	OF	11 S	HEETS	STA.	

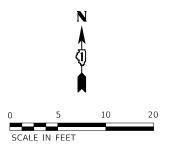
TO STA.

RTE	SEC	HON		COUNTY	SHEETS	NO.
395	2020-134-RS			соок	45	16
				CONTRACT	NO. 6	2M12
		ILLINOIS	FED. A	ID PROJECT		



F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
395	2020-134-RS	COOK	45	17	
			CONTRACT	NO. 62	2M12
	ILLINOIS	EED. A	ID PROJECT		





### BENCMARK:

CHISLED X ON TRAFFIC SIGNAL FOUNDATION LOCATED IN THE ON THE SOUTH SIDE OF 87TH STREET, TO THE EAST OF THE PROPOSED IMPROVEMENTS.

ELEVATION = 621.14

# LEGEND ( ) EXISTING ELEVATION / LENGTH / SLOPE EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD) PROPOSED SIDEWALK IMPROVEMENTS DETECTABLE WARNINGS DEPRESSED CURB & GUTTER

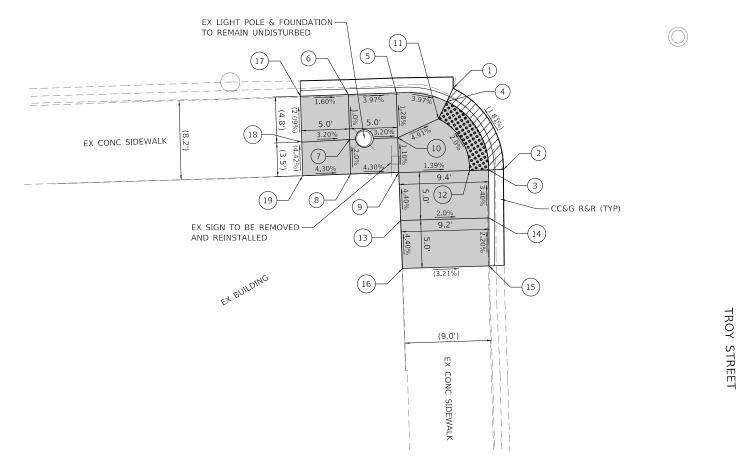
# S. LAWNDALE AVE - BUS SHELTER ACCESS

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,586.958	1,153,222.638	(621.35)
2	1,846,585.318	1,153,222.686	621.34
3	1,846,583.319	1,153,222.744	621.38
4	1,846,583.182	1,153,217.746	621.63
5	1,846,581.886	1,153,210.032	(621.98)
6	1,846,577.888	1,153,210.148	(622.09)
7	1,846,578.184	1,153,217.884	621.73
8	1,846,578.321	1,153,222.882	621.48
9	1,846,578.485	1,153,228.879	621.46
10	1,846,583.484	1,153,228.742	621.43
11	1,846,585.483	1,153,228.684	621.42
12	1,846,587.129	1,153,228.636	(621.43)

477 South Third Street	
Kaskaskia Geneva, Illinois 60134 Engineering Group, LLC  Suite 280 Geneva, Illinois 60134 Geneva, Illinois 60134 www.koskankiareg.co	
PROFESSIONAL REGISTRATIONS LICENSE NO.	en
Hinois Professional Design Firm 184.064773 Professional Engineering Group 20-5080586	

et	USER NAME = ndp	DESIGNED	-	NDP	REVISED -
4		DRAWN	-	NDP	REVISED -
com	PLOT SCALE = 10.0000 ' / in.	CHECKED	-	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE	-	12/04/2020	REVISED -

ADA RAMP IMPROVEMENT PLAN			SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
	87TH STREET & S LAWNDALE AVE			34-RS		COOK	45	18
	OTTH STREET & S LAVINDALE AVE					CONTRAC	T NO. 6	2M12
SCALE: 1"=5"	SHEET 3 OF 11 SHEETS STA. TO STA.			ILLINOIS	FED. AI	ID PROJECT		

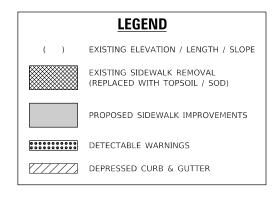


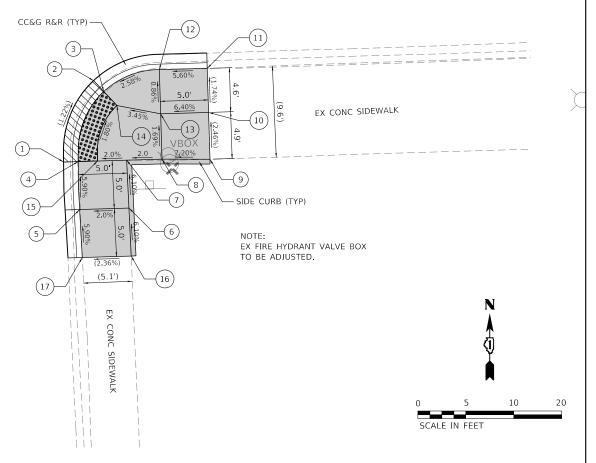
# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,694.484	1,156,801.261	(624.82)
2	1,846,686.025	1,156,806.495	(625.00)
3	1,846,685.979	1,156,804.962	624.99
4	1,846,693.102	1,156,800.597	624.81
5	1,846,694.005	1,156,795.338	625.02
6	1,846,693.847	1,156,790.341	625.22
7	1,846,689.175	1,156,790.489	625.27
8	1,846,685.556	1,156,790.585	625.34
9	1,846,685.703	1,156,795.583	625.12
10	1,846,689.333	1,156,795.476	625.08
11	1,846,691.300	1,156,799.731	624.85
12	1,846,685.921	1,156,802.969	625.02
13	1,846,680.707	1,156,795.794	625.34
14	1,846,680.978	1,156,804.989	625.16
15	1,846,675.977	1,156,805.015	(625.27)
16	1,846,675.710	1,156,795.980	(625.56)
17	1846693.661	1156785.344	(625.30)
18	1846688.868	1156785.485	(625.40)
19	1846685.374	1156785.588	(625.55)

# BENCMARK:

SOUTH BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHEAST CORNER OF 87TH STREET AND TROY STREET. ELEVATION = 627.13





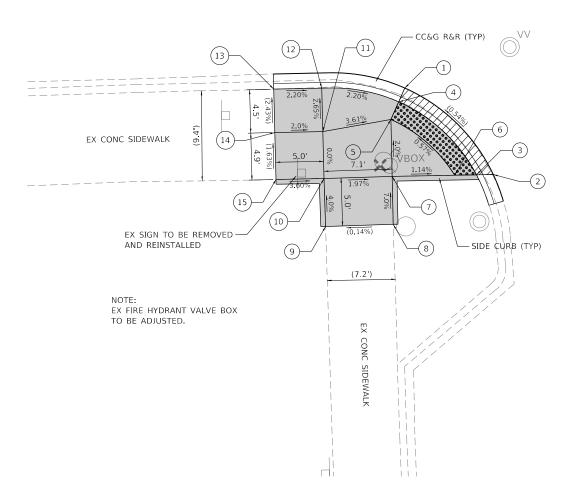
# SOUTHEAST CORNER

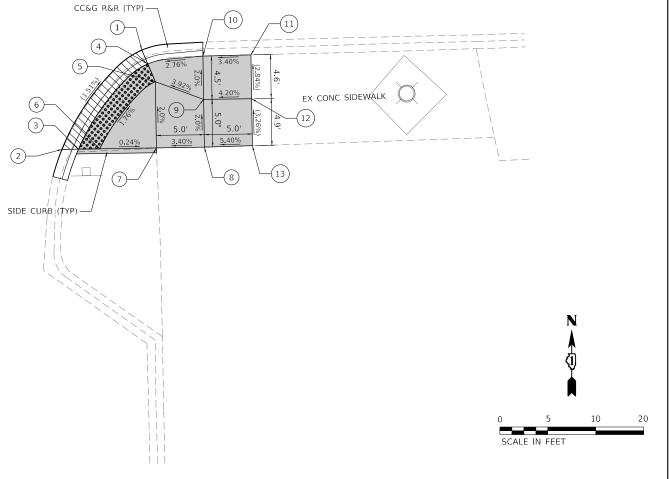
POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,686.386	1,156,852.887	(625.04)
2	1,846,694.871	1,156,856.005	(624.93)
3	1,846,693.732	1,156,857.073	624.92
4	1,846,686.432	1,156,854.419	625.03
5	1,846,681.434	1,156,854.559	625.34
6	1,846,681.588	1,156,859.693	625.44
7	1,846,686.583	1,156,859.463	625.13
8	1,846,686.693	1,156,863.134	625.20
9	1,846,686.676	1,156,868.136	(625.56)
10	1,846,691.557	1,156,867.990	(625.44)
11	1,846,696.146	1,156,867.853	(625.36)
12	1,846,696.012	1,156,862.855	625.08
13	1,846,691.407	1,156,862.993	625.12
14	1,846,692.273	1,156,858.440	624.96
15	1,846,686.492	1,156,856.419	625.07
16	1,846,676.592	1,156,859.923	(625.74)
17	1,846,676.440	1,156,854.835	(625.62)

Kaskaskia 47 South Third Sever Size 20 Genera, Illimic 6014 General Training Control of Control (Illinois 6014 General Training Control of Control (Illinois 6014 General Training Control of Control

	USER NAME = ndp	DESIGNED -	NDP	REVISED -
		DRAWN -	NDP	REVISED -
10	PLOT SCALE = 10.0000 ' / in.	CHECKED -	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS			
87TH STREET & TROY STREET			395	2020-134-RS		соок	45	19	
0/III SINLLI & INUI SINLLI						CONTRACT	Γ NO. 62	2M12	
SCALE: 1"=5"	SHEET 4 OF 11 SHEETS	STA.	TO STA.		ILLINOIS	FED. AI	D PROJECT		





# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,704.445	1,157,143.108	(624.92)
2	1,846,695.439	1,157,152.322	(624.99)
3	1,846,695.407	1,157,150.573	624.97
4	1,846,703.001	1,157,142.466	624.91
5	1,846,701.174	1,157,141.653	624.95
6	1,846,695.365	1,157,148.296	625.00
7	1,846,695.245	1,157,141.783	625.07
8	1,846,690.246	1,157,141.892	(625.42)
9	1,846,690.015	1,157,134.850	(625.41)
10	1,846,695.012	1,157,134.686	625.21
11	1,846,699.907	1,157,134.560	625.21
12	1,846,704.440	1,157,134.443	625.09
13	1,846,704.337	1,157,129.444	(625.20)
14	1,846,699.815	1,157,129.560	(625.31)
15	1,846,694.919	1,157,129.687	(625.39)

# BENCMARK:

SOUTHWEST BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHWEST CORNER OF 87TH STREET AND S ALBANY AVE.
ELEVATION = 626.12

# **LEGEND**

EXISTING ELEVATION / LENGTH / SLOPE



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DETECTABLE WARNINGS

DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,707.054	1,157,190.318	(624.82)
2	1,846,696.700	1,157,182.039	(625.02)
3	1,846,696.726	1,157,183.706	625.01
4	1,846,705.600	1,157,190.936	624.81
5	1,846,703.759	1,157,191.718	624.85
6	1,846,696.761	1,157,185.923	625.02
7	1,846,696.853	1,157,191.826	624.99
8	1,846,696.931	1,157,196.825	625.16
9	1,846,701.906	1,157,196.748	625.06
10	1,846,706.429	1,157,196.677	624.97
11	1,846,706.556	1,157,201.676	(625.14)
12	1,846,701.984	1,157,201.747	(625.27)
13	1,846,697.084	1,157,201.824	(625.43)

	USER NAME = ndp	DESIGNED -	NDP	REVISED -
		DRAWN -	NDP	REVISED -
_	PLOT SCALE = 10.0000 / in.	CHECKED -	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

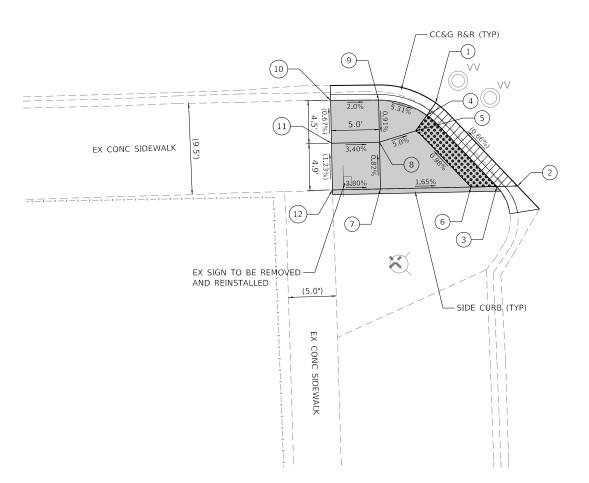
SCALE: 1"=5"

ADA RAMP IMPROVEMENT PLAN			F.A.P. RTE	SECT	ION		COUNTY	TOTAL SHEETS	SHEET NO.
87TH STREET & S	ALRANY AVE		395	2020-1	34-RS		COOK	45	20
O/III SINEEI & S	ALDANI AVE						CONTRAC	T NO. 62	2M12
SHEET 5 OF 11 SHEET	S STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



CC&G R&R (TYP) -

# 87TH STREET



HTICA AV

# 

# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,714.265	1,157,486.664	(624.82)
2	1,846,705.603	1,157,495.182	(624.90)
3	1,846,705.558	1,157,493.040	624.89
4	1,846,712.981	1,157,485.744	624.81
5	1,846,711.355	1,157,484.580	624.85
6	1,846,705.500	1,157,490.328	624.93
7	1,846,705.301	1,157,480.906	625.09
8	1,846,710.167	1,157,480.803	625.05
9	1,846,714.555	1,157,480.710	625.09
10	1,846,714.536	1,157,475.709	(625.19)
11	1,846,710.061	1,157,475.804	(625.22)
12	1,846,705.195	1,157,475.907	(625.28)

# BENCMARK:

NORTHWEST BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHWEST CORNER OF 87TH STREET AND UTICA AVE.

ELEVATION = 625.84

# **LEGEND**



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)

PROPOSED SIDEWALK IMPROVEMENTS

DETECTABLE WARNINGS

DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,706.473	1,157,523.454	(624.88)
2	1,846,715.186	1,157,529.992	(624.82)
3	1,846,713.876	1,157,530.875	624.81
4	1,846,706.535	1,157,525.208	624.87
5	1,846,706.614	1,157,527.429	624.89
6	1,846,712.217	1,157,531.992	624.85
7	1,846,706.783	1,157,532.185	624.92
8	1,846,706.960	1,157,537.182	(625.02)
9	1,846,711.743	1,157,537.012	(625.03)
10	1,846,716.186	1,157,536.855	(625.10)

Kaskaskia 675 South Third Server Shine 280 Genero, Illimit 6/1014 GOAD TO THE CONTROL OF THE CON

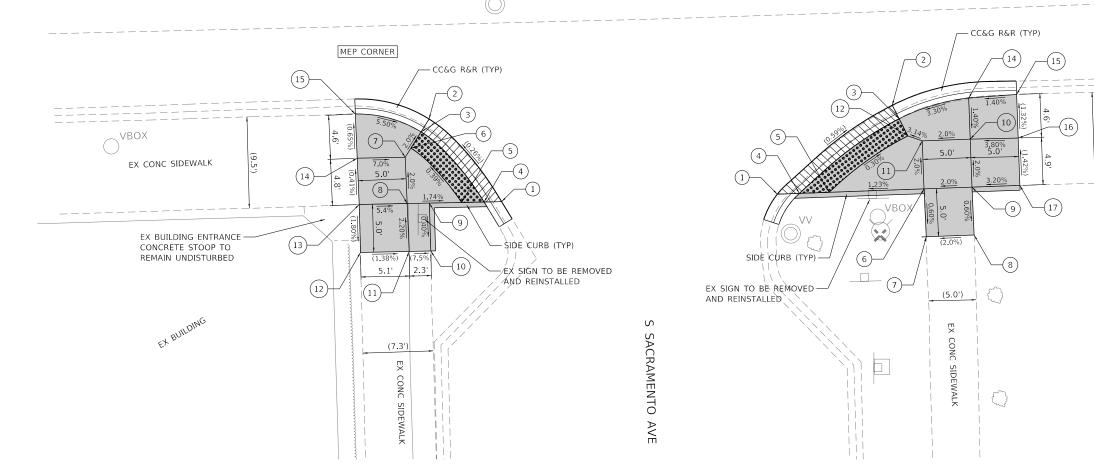
	USER NAME = ndp	DESIGNED -	NDP	REVISED -
		DRAWN -	NDP	REVISED -
_	PLOT SCALE = 10.0000 ' / in.	CHECKED -	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=5"

ADA RAMP IMPROVEMENT PLAN		F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
87TH STREET & UTICA AVE		395	2020-134-RS		соок	45	21
WITH STILLE & OTICA AVE					CONTRACT	NO. 62	2M12
SHEET 6 OF 11 SHEETS STA.	TO STA.		ILLINO	FED. A	ID PROJECT		





# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,715.612	1,157,831.893	(624.98)
2	1,846,724.228	1,157,824.332	(624.95)
3	1,846,722.887	1,157,823.496	624.94
4	1,846,715.577	1,157,830.062	624.97
5	1,846,715.532	1,157,827.724	625.01
6	1,846,721.190	1,157,822.438	624.98
7	1,846,720.245	1,157,821.849	625.01
8	1,846,715.422	1,157,822.050	625.11
9	1,846,715.467	1,157,824.357	625.07
10	1,846,710.469	1,157,824.520	(625.05)
11	1,846,710.425	1,157,822.258	(625.22)
12	1,846,710.327	1,157,817.185	(625.29)
13	1,846,715.325	1,157,817.048	(625.38)
14	1,846,720.148	1,157,816.846	(625.36)
15	1,846,724.738	1,157,816.654	(625.33)

# BENCMARK:

SOUTH BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHEAST CORNER OF 87TH STREET AND S SACRAMENTO AVE. ELEVATION = 627.32

# <u>LEGEND</u>

EXISTING ELEVATION / LENGTH / SLOPE



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DETECTABLE WARNINGS



DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

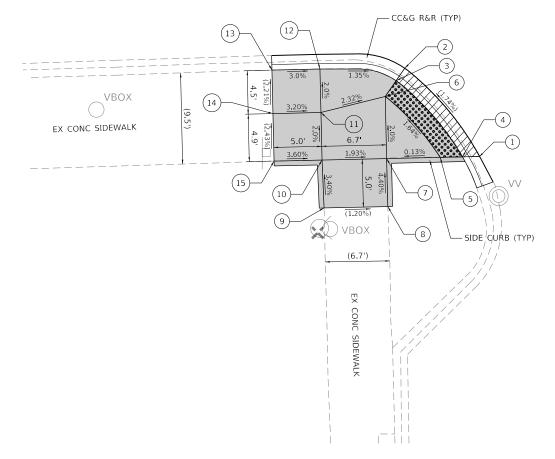
EX CONC SIDEWALK

SCALE IN FEET

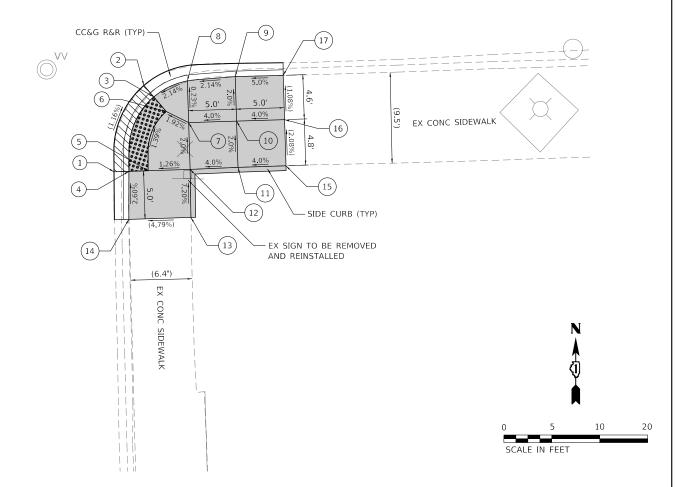
POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,716.397	1,157,860.624	(625.01)
2	1,846,725.663	1,157,872.603	(624.92)
3	1,846,724.253	1,157,873.316	624.91
4	1,846,716.480	1,157,862.909	624.94
5	1,846,716.594	1,157,866.010	624.98
6	1,846,716.950	1,157,875.903	625.10
7	1,846,711.955	1,157,876.136	(625.07)
8	1,846,712.136	1,157,881.126	(625.17)
9	1,846,717.131	1,157,880.900	625.20
10	1,846,722.127	1,157,880.719	625.10
11	1,846,721.946	1,157,875.723	625.00
12	1,846,722.468	1,157,874.218	624.95
14	1,846,726.420	1,157,880.564	625.16
15	1846726.789	1157885.554	(625.23)
16	1846722.239	1157885.719	(625.29)
17	1846717.305	1157885.897	(625.36)

	USER NAME = ndp	DESIGNED -	-	NDP	REVISED -
		DRAWN	-	NDP	REVISED -
10	PLOT SCALE = 10.0000 ' / in.	CHECKED	-	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE	-	12/04/2020	REVISED -

A	DA	RAMI	• II	/IPROVE	MENT PI	LAN		F.A.P. RTE	SEC <sup>-</sup>	ПОИ		COUNTY	TOTAL SHEETS	SHEE' NO.
27TL	т ет	REET	Q.	2 240	RAMENTO	O AVE		395	2020-1	34-RS		соок	45	22
0711		IILLI	· ·	3 370	IMIVILIAI	AVL						CONTRACT	NO. 62	2M12
HEET	7	OF	11	SHEETS	STA.	TO	O STA.			ILLINOIS	FED. A	ID PROJECT		



S RICHMOND AVE



# SOUTHWEST CORNER

			•	
POINT NO.	NORTHING	EASTING	ELEVATION	
1	1,846,725.653	1,158,173.167	(625.36)	
2	1,846,734.887	1,158,165.409	(625.15)	
3	1,846,733.587	1,158,164.512	625.14	
4	1,846,725.654	1,158,171.424	625.32	
5	1,846,725.601	1,158,169.112	625.32	
6	1,846,731.941	1,158,163.376	625.18	
7	1,846,725.474	1,158,163.523	625.31	
8	1,846,720.476	1,158,163.649	(625.53)	
9	1,846,720.325	1,158,156.998	(625.61)	
10	1,846,725.321	1,158,156.789	625.44	
11	1,846,730.272	1,158,156.676	625.34	
12	1,846,734.805	1,158,156.573	625.25	
13	1,846,734.692	1,158,151.575	(625.40)	
14	1,846,730.159	1,158,151.678	(625.50)	
15	1,846,725.212	1,158,151.790	(625.62)	

# BENCMARK:

SOUTHWEST BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHWEST CORNER OF 87TH STREET AND S RICHMOND AVE.
ELEVATION = 626.86

# **LEGEND**

EXISTING ELEVATION / LENGTH / SLOPE



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DETECTABLE WARNINGS



DEPRESSED CURB & GUTTER

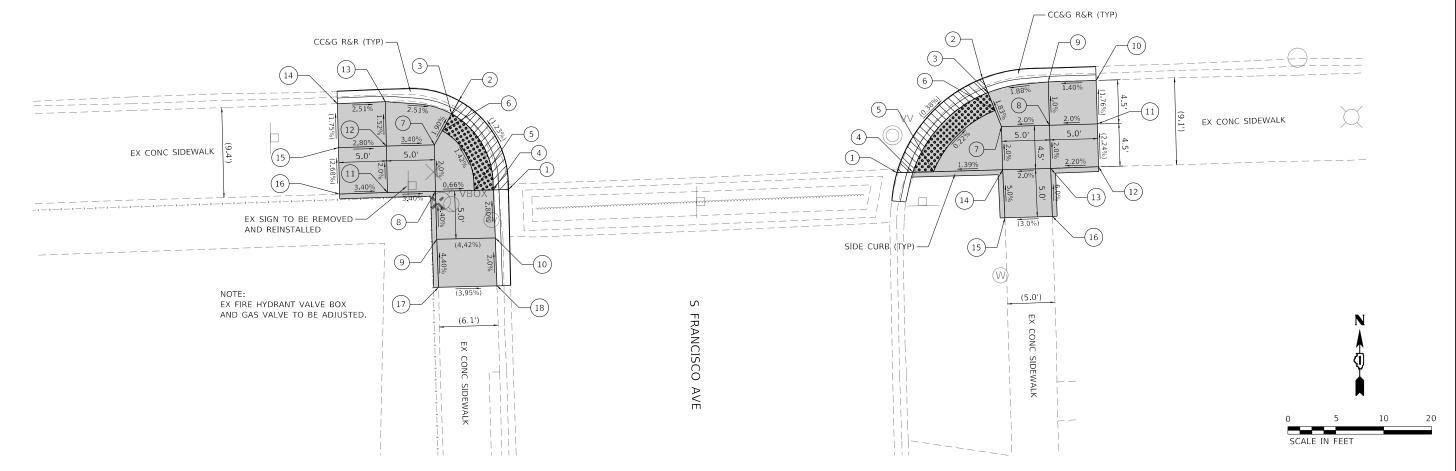
# SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,727.011	1,158,212.118	(625.13)
2	1,846,736.012	1,158,215.229	(625.02)
3	1,846,734.815	1,158,216.260	625.01
4	1,846,727.060	1,158,213.675	625.12
5	1,846,727.122	1,158,215.675	625.14
6	1,846,733.299	1,158,217.565	625.05
7	1,846,732.143	1,158,219.893	625.10
8	1,846,736.489	1,158,219.758	625.09
9	1,846,736.927	1,158,224.747	625.20
10	1,846,732.298	1,158,224.890	625.30
11	1,846,727.472	1,158,225.040	625.40
12	1,846,727.257	1,158,220.044	625.20
13	1,846,722.257	1,158,220.133	(625.56)
14	1,846,722.057	1,158,213.661	(625.25)
15	1,846,727.645	1,158,230.037	(625.60)
16	1,846,732.453	1,158,229.888	(625.50)
17	1,846,737.065	1,158,229.745	(625.45)

Kaskaskia 677 South

USER NAME = ndp	DESIGNED -	NDP	REVISED -
	DRAWN -	NDP	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	PJF	REVISED -
PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

	ΔΠΔ	RAMP	) IM		MENT F	PLAN	F.A.P. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	T
ADA RAMP IMPROVEMENT PLAN 87TH STREET & S RICHMOND AVE					395	2020-1	134-RS		соок	İ		
		OTTLL		J 1110	,,,,,,,	AVE					CONTRACT	ſ
SCALE: 1"=5"	SHEET 8	OF	11	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT	Τ



# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,735.855	1,158,502.826	(625.20)
2	1,846,745.118	1,158,497.665	(625.07)
3	1,846,743.737	1,158,496.898	625.06
4	1,846,735.817	1,158,501.259	625.19
5	1,846,735.767	1,158,499.260	625.20
6	1,846,741.989	1,158,495.927	625.10
7	1,846,740.514	1,158,495.108	625.13
8	1,846,735.668	1,158,495.227	625.23
9	1,846,730.670	1,158,495.358	625.45
10	1,846,730.820	1,158,501.462	625.33
11	1,846,735.545	1,158,490.229	625.40
12	1,846,740.391	1,158,490.109	625.30
13	1,846,745.011	1,158,489.996	625.23
14	1846744.805	1158484.999	(625.36)
15	1846740.222	1158485.112	(625.44)
16	1846735.379	1158485.231	(625.57)
17	1846725.673	1158495.549	(625.67)
18	1846725.822	1158501.625	(625.43)

# BENCMARK:

WEST BOLT ON FIRE HYDRANT LOCATED
IN THE SOUTHWEST CORNER OF 87TH STREET
AND S FRANCISCO AVE.
ELEVATION = 626.90

# **LEGEND**

EXISTING ELEVATION / LENGTH / SLOPE EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DETECTABLE WARNINGS

DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,737.602	1,158,543.306	(625.15)
2	1,846,747.427	1,158,552.216	(625.10)
3	1,846,745.957	1,158,552.797	625.09
4	1,846,737.649	1,158,544.973	625.12
5	1,846,737.709	1,158,547.121	625.15
6	1,846,744.097	1,158,553.532	625.13
7	1,846,742.409	1,158,554.199	625.16
8	1,846,742.549	1,158,559.197	625.26
9	1,846,747.068	1,158,559.070	625.21
10	1,846,747.226	1,158,564.067	(625.28)
11	1,846,742.690	1,158,564.195	(625.36)
12	1,846,738.232	1,158,564.320	(625.46)
13	1,846,738.052	1,158,559.323	625.35
14	1,846,737.912	1,158,554.325	625.25
15	1,846,732.916	1,158,554.561	(625.50)
16	1,846,733.055	1,158,559.504	(625.65)

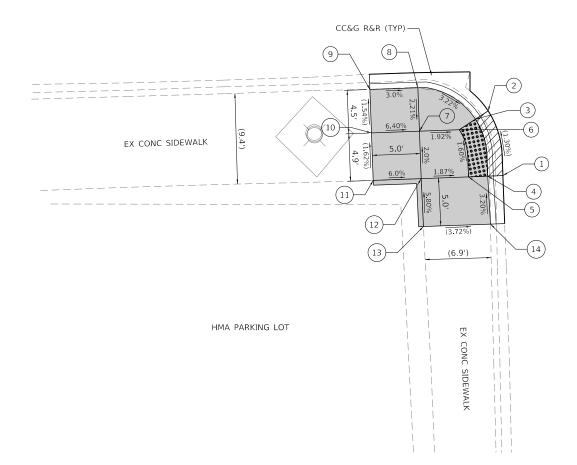
	askaskia gineering Group, LLC	477 South Third Street Suite 280 Geneva, Illinois 60134 630.332.9157 phone www.ksokaskiaeng.com
	PROFESSIONAL REGISTRATIONS	LICENSE NO.
, ,	Illinois Professional Design Firm	184,064773
,	Professional Engineering Group	20-5080586

ret	USER NAME = ndp	DESIGNED	-	NDP	REVISED -
34		DRAWN	-	NDP	REVISED -
.com	PLOT SCALE = 10.0000 / in.	CHECKED	-	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE	-	12/04/2020	REVISED -

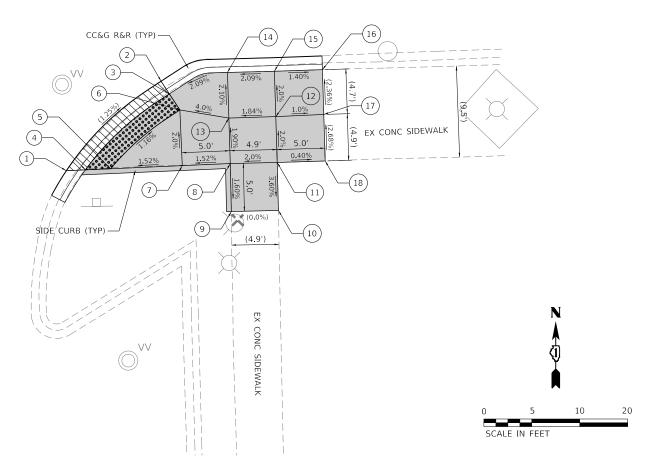
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

							F.A.P. RTE	SEC	TION		COUNTY	
	87TH STREET & S FRANCISCO AVE							395	2020-	134-RS		соок
	OTTH STREET & STRANGISCO AVE											CONTRA
ı	SCALE: 1"=5"	SHEET 9	OF	11	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT

TOTAL SHEET NO 45 24



FAIRFIELD



# SOUTHWEST CORNER

	POINT NO.	NORTHING	EASTING	ELEVATION		
	1	1,846,766.265	1,159,511.542	(626.62)		
	2	1,846,773.003	1,159,510.010	(626.53)		
	3	1,846,772.141	1,159,508.686	626.52		
	4	1,846,766.207	1,159,509.963	626.61		
	5	1,846,766.134	1,159,507.964	626.65		
	6	1,846,771.050	1,159,507.010	626.56		
	7	1,846,770.897	1,159,502.851	626.64		
	8	1,846,775.420	1,159,502.685	626.74		
	9	1,846,775.246	1,159,497.688	(626.89)		
	10	1,846,770.714	1,159,497.854	(626.96)		
	11	1,846,765.770	1,159,498.035	(627.04)		
	12	1,846,765.953	1,159,503.032	626.74		
	13	1,846,760.958	1,159,503.268	(627.03)		
	14	1,846,761.215	1,159,510.261	(626.77)		

# BENCMARK:

EAST BOLT ON FIRE HYDRANT LOCATED IN THE SOUTHEAST CORNER OF 87TH STREET AND S FAIRFIELD AVE. ELEVATION = 627.99

# <u>LEGEND</u>

EXISTING ELEVATION / LENGTH / SLOPE



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DETECTABLE WARNINGS

DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,767.092	1,159,546.912	(626.70)
2	1,846,776.415	1,159,556.791	(626.53)
3	1,846,775.091	1,159,557.653	626.52
4	1,846,767.179	1,159,548.904	626.65
5	1,846,767.294	1,159,551.526	626.66
6	1,846,773.415	1,159,558.745	626.55
7	1,846,767.619	1,159,558.998	626.67
8	1,846,767.837	1,159,563.993	626.85
9	1,846,762.838	1,159,564.108	(626.77)
10	1,846,762.952	1,159,569.016	(626.77)
11	1,846,767.950	1,159,568.890	(626.95)
12	1,846,772.728	1,159,568.741	(626.83)
13	1,846,772.575	1,159,563.846	626.76
14	1,846,777.328	1,159,563.698	626.69
15	1,846,777.458	1,159,568.594	(626.71)

TO STA.

Kaskaskia 477 South Third Stree

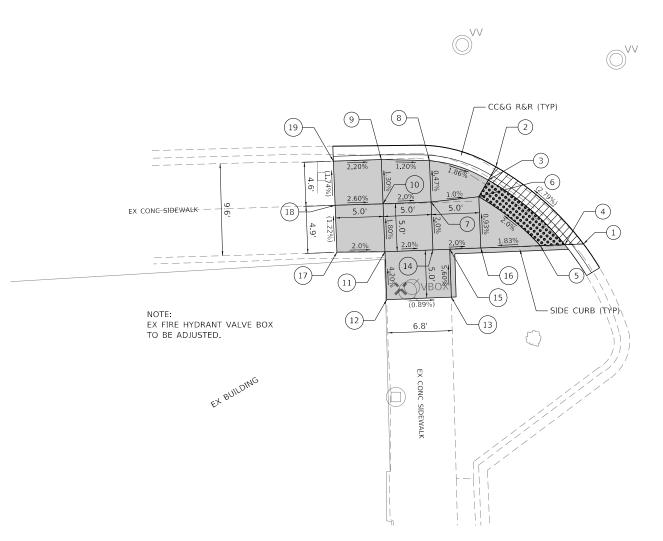
DESIGNED - NDP REVISED DRAWN -NDP REVISED LOT SCALE = 10.0000 / in. REVISED PLOT DATE = 12/3/2020 REVISED

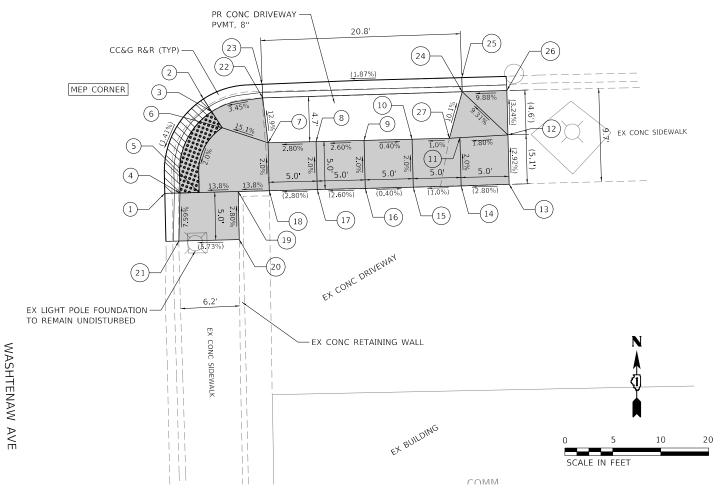
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

ADA RAMP IMPROVEMENT PLAN 87TH STREET & S FAIRFIELD AVE SCALE: 1"=5' SHEET 10 OF 11 SHEETS STA.

SECTION COUNTY SHEETS NO.

COOK 45 25 2020-134-RS CONTRACT NO. 62M12





# SOUTHWEST CORNER

POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,776.661	1,159,852.296	(628.90)
2	1,846,784.696	1,159,843.161	(628.56)
3	1,846,783.322	1,159,842.379	628.55
4	1,846,776.585	1,159,850.349	628.85
5	1,846,776.485	1,159,847.791	628.80
6	1,846,781.584	1,159,841.391	628.64
7	1,846,781.044	1,159,836.408	628.69
8	1,846,785.332	1,159,836.240	628.67
9	1,846,785.453	1,159,831.232	628.73
10	1,846,780.848	1,159,831.412	628.79
11	1,846,775.852	1,159,831.607	628.88
12	1,846,770.855	1,159,831.790	(629.09)
13	1,846,771.119	1,159,838.526	(629.03)
14	1,846,776.047	1,159,836.603	628.79
15	1,846,776.116	1,159,838.364	628.75
16	1,846,776.243	1,159,841.599	628.69
17	1,846,775.798	1,159,826.605	(628.98)
18	1,846,780.693	1,159,826.414	(628.92)
19	1,846,785.288	1,159,826.234	(628.84)

# BENCMARK:

WEST BOLT ON FIRE HYDARNT LOCATED
IN THE SOUTHWEST CORNER OF 87TH STREET
AND WASHTENAW AVE.
ELEVATION = 630.41

# <u>LEGEND</u>

( ) EXISTING ELEVATION / LENGTH / SLOPE



EXISTING SIDEWALK REMOVAL (REPLACED WITH TOPSOIL / SOD)



PROPOSED SIDEWALK IMPROVEMENTS



DEPRESSED CURB & GUTTER

# SOUTHEAST CORNER

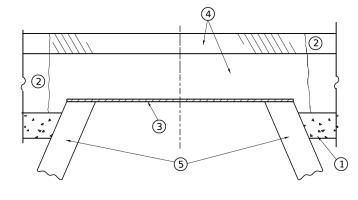
POINT NO.	NORTHING	EASTING	ELEVATION
1	1,846,777.659	1,159,888.587	(628.79)
2	1,846,787.501	1,159,892.613	(628.94)
3	1,846,786.179	1,159,893.478	628.93
4	1,846,777.698	1,159,890.167	628.78
5	1,846,777.748	1,159,892.166	628.82
6	1,846,784.505	1,159,894.572	628.97
7	1,846,782.929	1,159,899.353	629.73
8	1,846,783.054	1,159,904.352	629.87
9	1,846,783.179	1,159,909.350	630.00
10	1,846,783.304	1,159,914.348	629.98
11	1,846,783.465	1,159,919.346	630.03
12	1,846,783.751	1,159,924.340	(630.12)
13	1,846,778.609	1,159,924.469	(630.27)
14	1,846,778.431	1,159,919.472	(630.13)

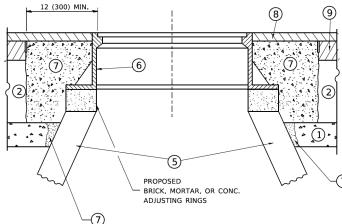
POINT NO.	NORTHING	EASTING	ELEVATION
15	1,846,778.306	1,159,914.473	(630.08)
16	1,846,778.181	1,159,909.475	(630.10)
17	1,846,778.056	1,159,904.476	(629.97)
18	1,846,777.931	1,159,899.478	(629.83)
19	1,846,777.850	1,159,896.236	629.38
20	1,846,772.851	1,159,896.343	(629.52)
21	1,846,772.694	1,159,890.059	(629.16)
22	1,846,787.609	1,159,898.794	629.12
23	1,846,789.024	1,159,898.736	(629.05)
24	1,846,788.249	1,159,919.572	629.51
25	1,846,789.725	1,159,919.532	(629.44)
26	1,846,788.375	1,159,924.225	(629.97)
27	1,846,783.401	1,159,918.236	630.02

	askaskia gineering Group, LLC	477 South Third Street Suite 280 Geneva, Illinois 60134 630.332.9157 phone www.ksokaskiaeng.com
	PROFESSIONAL REGISTRATIONS	LICENSE NO.
, ,	Illinois Professional Design Firm	184,064773
,	Professional Engineering Group	20-5080586

	USER NAME = ndp	DESIGNED -	NDP	REVISED -
		DRAWN -	NDP	REVISED -
10	PLOT SCALE = 10.0000 ' / in.	CHECKED -	PJF	REVISED -
	PLOT DATE = 12/3/2020	DATE -	12/04/2020	REVISED -

ADA RAMP IMPROVEMENT PLAN	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	
87TH STREET & WASHTENAW AVE	395	2020-134-RS	соок	45	26
OTTH STREET & WASHIENAW AVE			CONTRACT	Γ NO. 62	2M12
SCALE: 1"=5' SHEET 11 OF 11 SHEETS STA. TO STA.		ILLINOIS F	ED. AID PROJECT		





### **NOTES**

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

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

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

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

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

### **CONSTRUCTION PROCEDURES**

# STAGE 1 (BEFORE PAVEMENT MILLING)

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

### STAGE 2 (AFTER PAVEMENT MILLING)

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

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

### LEGEND

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

  (5) EXISTING STRUCTURE
- 9 PROPOSED HMA BINDER COURSE

# **LOCATION OF STRUCTURES**

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

# **BASIS OF PAYMENT**

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

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

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

# DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

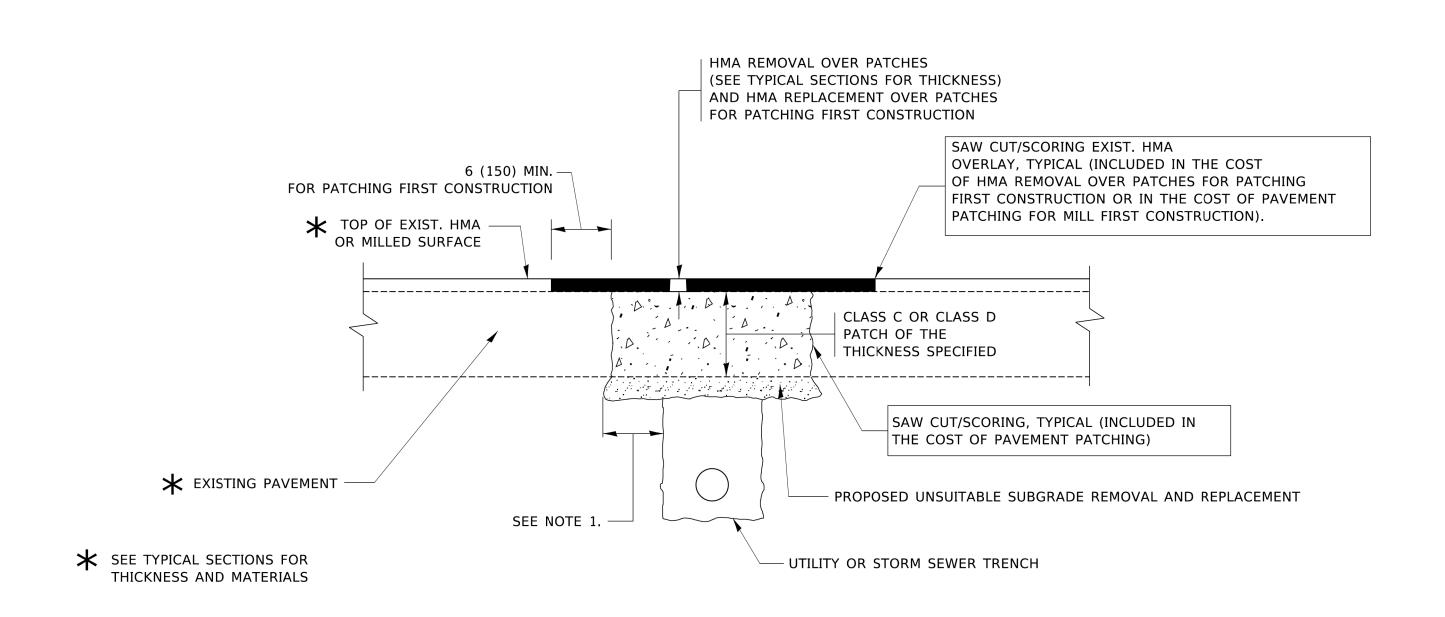
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

FRAMES AND LIDS ADJUSTMENT WITH MILLING

SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A.P. | SECTION | COUNTY | TOTAL SHEE SHEETS | NO. |
| 395 | 2020-134-RS | COOK | 45 | 27 |
| BD600-03 (BD-8) | CONTRACT | NO. | 62M12



# **NOTES:**

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

# **SEQUENCE OF CONSTRUCTION (PATCHING FIRST)**

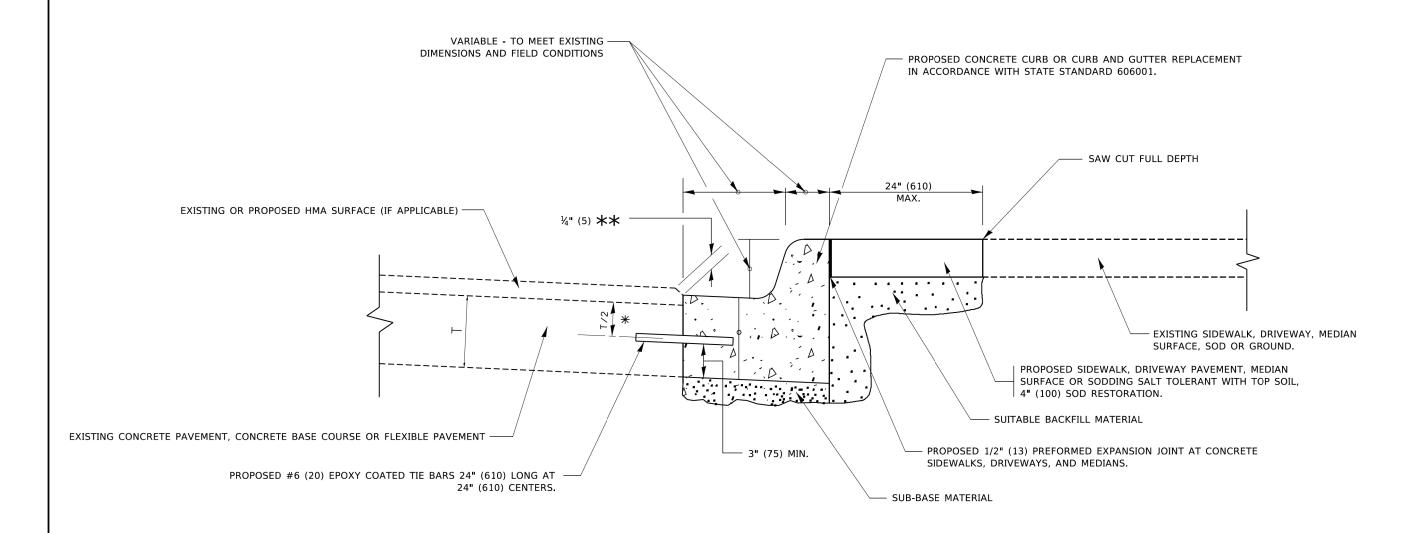
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

# **SEQUENCE OF CONSTRUCTION (MILLING FIRST)**

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

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

USER NAME = Tootemj	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		RTF	SECTION	COUNTY	SHEETS	NO.
	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		HMA SURFACED PAVEMENT		395	2020-134-RS	соок	45	28
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HIMA SURFACED PAVEIMENT			BD400-04 (BD-22)	CONTRAC	T NO. 62	:M12
PLOT DATE = 3/27/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

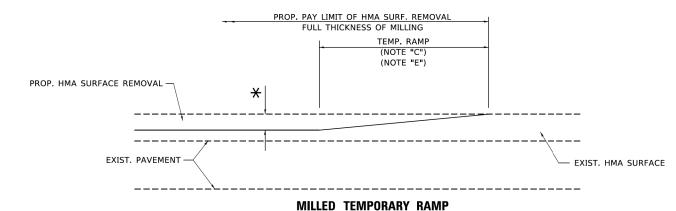


- X 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- $\star\star$  IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

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

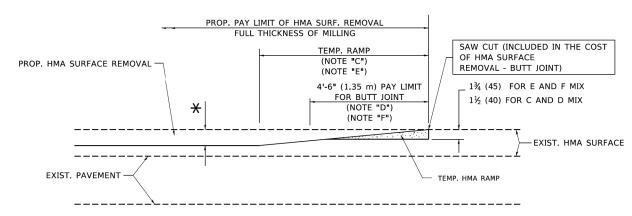
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = TOOLEM	DRAWN -	REVISED - A. ABBAS 03-21-97  REVISED - M. GOMEZ 01-22-01	STATE OF ILLINOIS	1	CURB O
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-15-09	DEPARTMENT OF TRANSPORTATION	l	REMOVA
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19		SCALE: NONE	SHEET 1 OF



(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

# OPTION 1

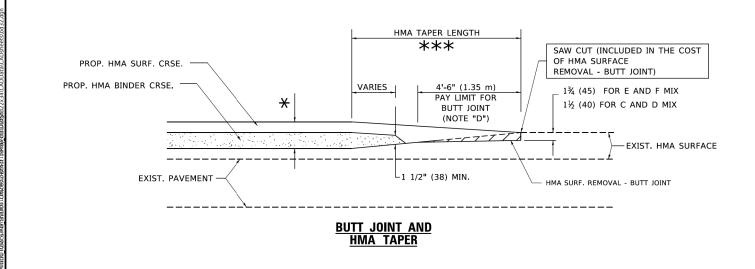


# HMA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

# OPTION 2

# TYPICAL TEMPORARY RAMP



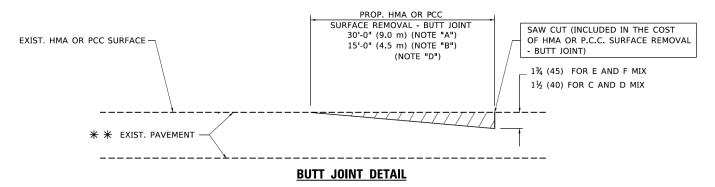
# TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

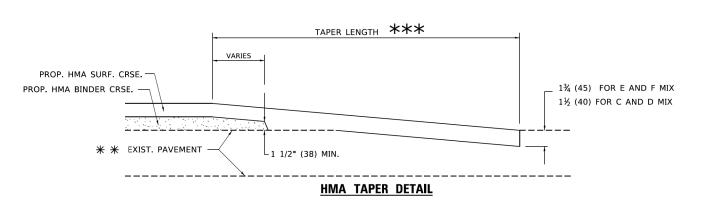
USER NAME = footemj DESIGNED - M. DE YONG REVISED - R. SHAH 10-25-94 DRAWN REVISED - A. ABBAS 03-21-97 PLOT SCALE = 50.0000 ' / in. CHECKED -REVISED -M. GOMEZ 04-06-01 PLOT DATE = 3/27/2019 R RORO 01-01-07 DATE REVISED -

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

**BUTT JOINT AND HMA TAPER DETAILS** OF 1 SHEETS STA. SHEET 1 TO STA

COUNTY 2020-134-RS COOK 45 30 BD400-05 BD32 CONTRACT NO. 62M12





# **TYPICAL BUTT JOINT AND HMA TAPER** FOR RESURFACING ONLY

\*\* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

# **NOTES**

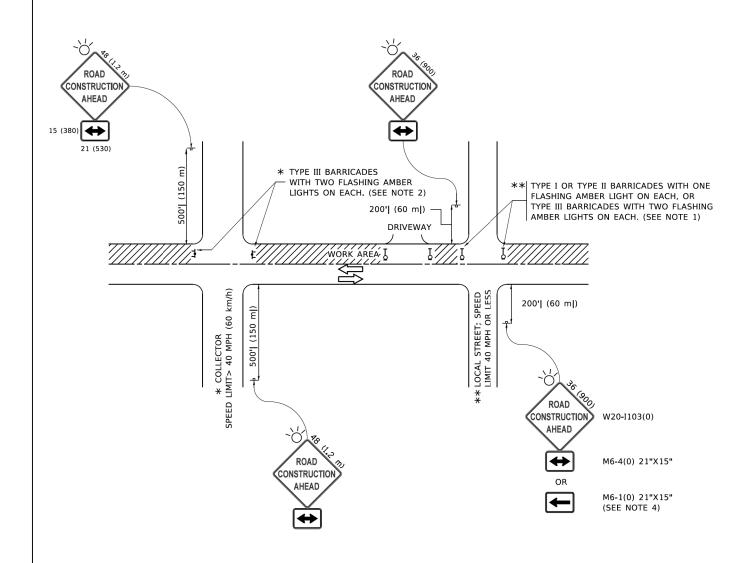
- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT. \* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. 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**

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".

SCALE: NONE

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



# 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.
- 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.
- THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY
  b) 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)
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE
  4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL
  BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

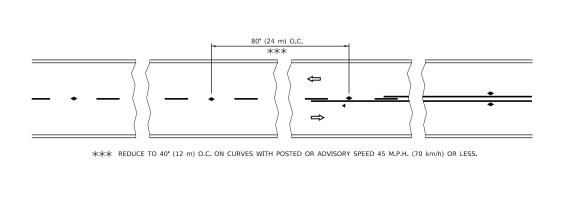
All dimensions are in inches (millimeters) unless otherwise shown.

USER NAME = footemj	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED _ A. SCHUETZE 09-15-16

STATE 0	F ILLINOIS
DEPARTMENT OF	TRANSPORTATION

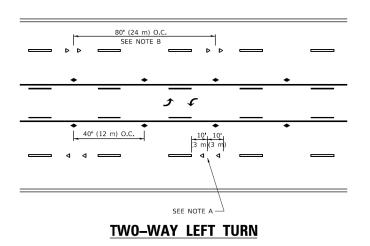
 DE RO	AD	S, INTI	ERS	ECTIONS	S, AND	TION FOR DRIVEWAYS
SHEET	1	OF	1	SHEETS	STA.	TO STA.

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHE
395	2020-134-RS	СООК	45	3
	TC-10	CONTRACT	NO. 62	2M1
	ILLINOIS	ID PROJECT		



# LANE REDUCTION TRANSITION

SEE FIGURE 3B-14 MUTCD



**SYMBOLS** 

ONE-WAY AMBER MARKER

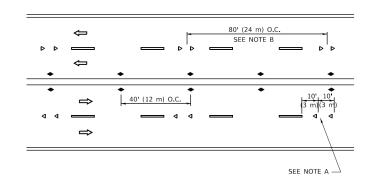
TWO-WAY AMBER MARKER

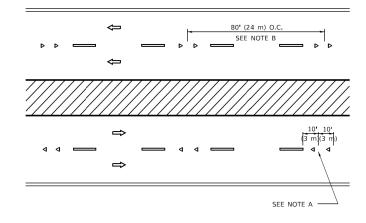
■ ONE-WAY CRYSTAL MARKER (W/O)

— YELLOW STRIPE

■ WHITE STRIPE

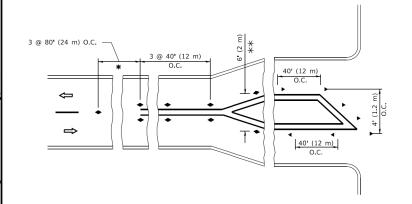
# TWO-LANE/TWO-WAY

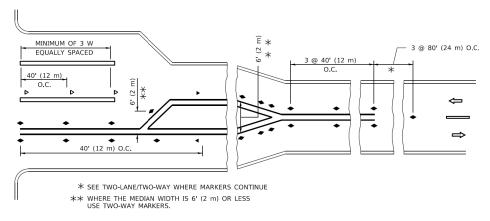




# MULTI-LANE/UNDIVIDED







# **TURN LANES**

# **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.
- 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

# 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.

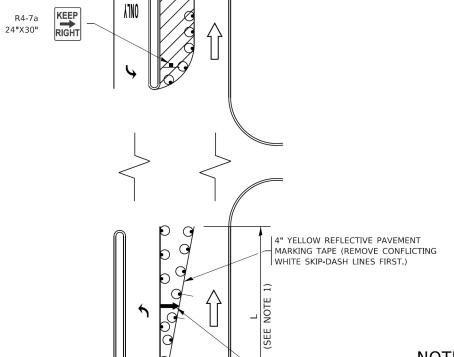
# **DESIGN NOTES**

- 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.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD E INVOLVED.

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

REVISED - T. RAMMACHER 03-12-99 USER NAME = footemj DESIGNED -SECTION TYPICAL APPLICATIONS **STATE OF ILLINOIS** DRAWN REVISED - T. RAMMACHER 01-06-00 2020-134-RS COOK 45 32 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) PLOT SCALE = 50.0000 ' / in. CHECKED -REVISED - C. JUCIUS 09-09-09 **DEPARTMENT OF TRANSPORTATION** TC-11 CONTRACT NO. 62M12 SHEET 1 OF 1 SHEETS STA. PLOT DATE = 3/4/2019 REVISED -DATE

# TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

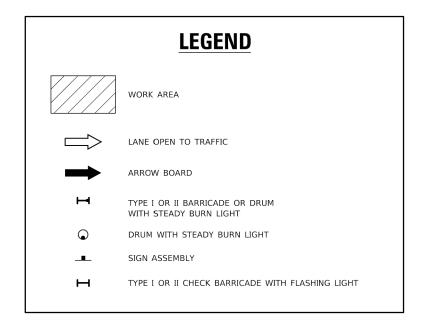


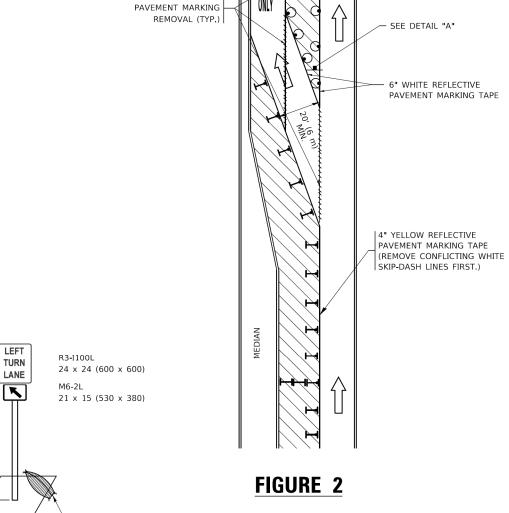
- ARROW BOARD

# NOTES:

- 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





CONFLICTING |

# **DETAIL A**

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

USER NAME = footemj	DESIGNED	- T.	RAMMACHER	09-08-94	REVISED	-	R. BORO 09-14-09
	DRAWN	-	A. HOUSEH	11-07-95	REVISED	- A.	SCHUETZE 07-01-1
PLOT SCALE = 50.0000 ' / in.	CHECKED	-	A. HOUSEH	10-12-96	REVISED	- A.	SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE	- T.	RAMMACHER	01-06-00	REVISED	-	

FIGURE 1

**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION** 

TRAFF	IC CO	NT	ROL AN	D PRO	TECT	ION AT	TURN BAYS	
	(T	0	REMAIN	I OPEI	V TO	TRAFF	IC)	
SCALE: NONE	SHEET	1	OF 1	SHE	ETS S	STA.	TO STA.	

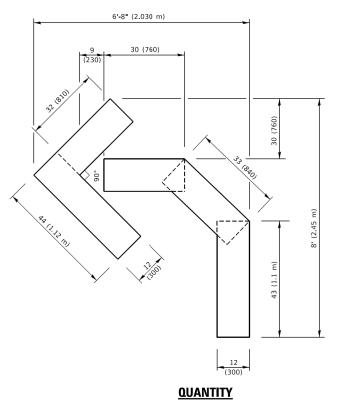
STABILIZE SIGN SUPPORT WITH

SANDBAGS AS

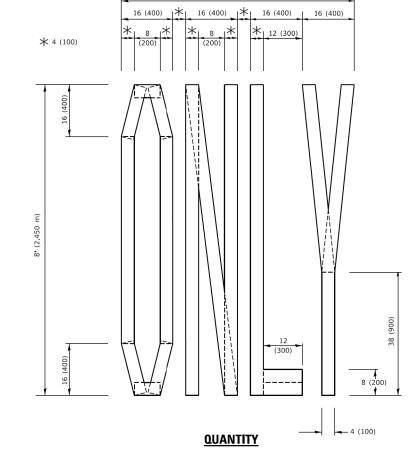
NECESSARY

F.A.P. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEE NO.
395	2020-134-RS		соок	45	33
	TC-14	CONTRACT	NO. 62	2M12	
	TILINOIS	ID PROJECT			

SEE DETAIL "A" -



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



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

DESIGNED -

CHECKED -

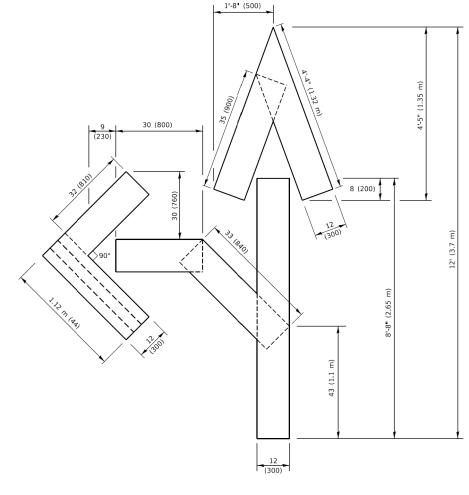
- 09-18-94

DRAWN

DATE

USER NAME = footemj

PLOT DATE = 3/4/2019

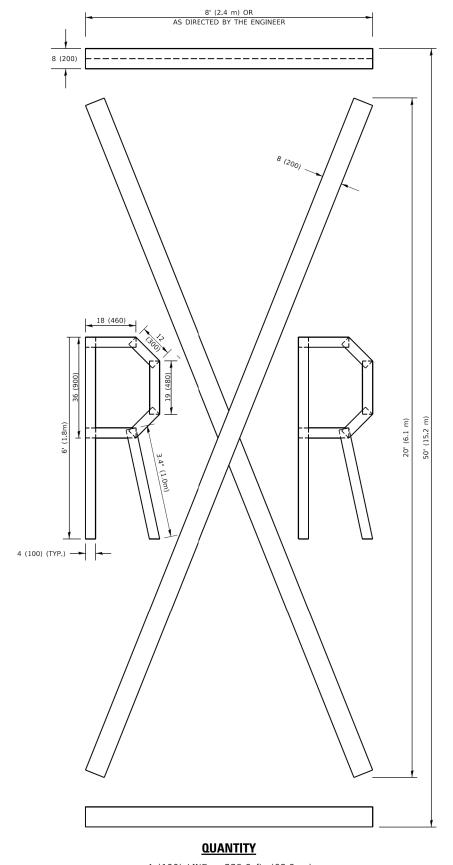


# QUANTITY

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.



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.

REVISED - T. RAMMACHER 03-02-98

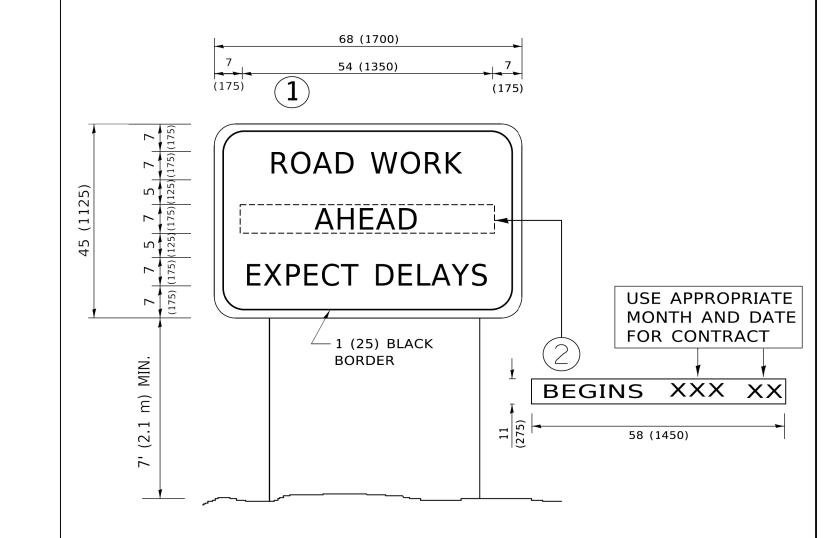
REVISED - E. GOMEZ 08-28-00

REVISED - E. GOMEZ 08-28-00

REVISED - A. SCHUETZE 09-15-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

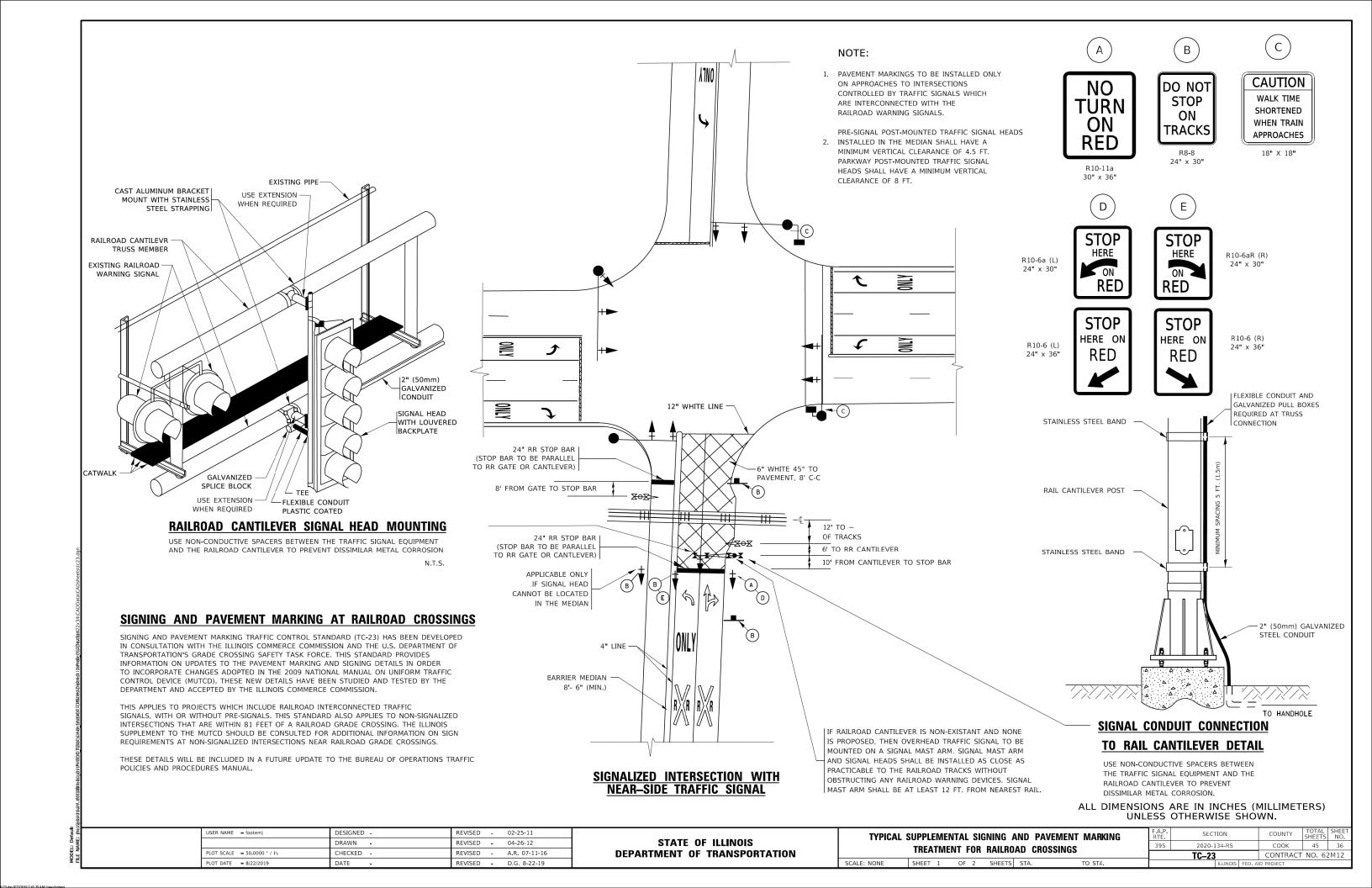


# **NOTES:**

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

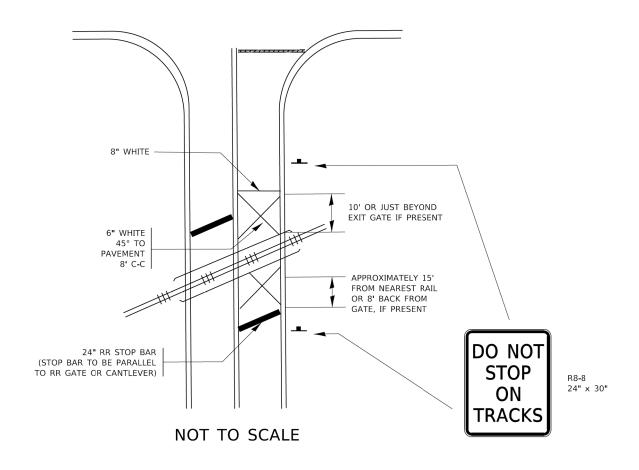
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

USER NAME = footemj	DESIGNED -	REVISED	- R. MIRS 09-15-97	· · · · · · · · · · · · · · · · · · ·			А	RTERI/	AL ROA	AD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -	REVISED	- R. MIRS 12-11-97	STATE OF ILLINOIS					TION S			395	2020-134-RS	соок	45	35
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION			IIVE	MIVIA	IION 3	SIUN			TC-22	CONTRAC	NO. 62	M12
PLOT DATE = 3/4/2019	DATE -	REVISED	<ul> <li>C. JUCIUS 01-31-07</li> </ul>		SCALE: NONE	SHEET 1	l OF	1 S	HEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		



# TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING TREATMENT FOR RAILROAD CROSSINGS

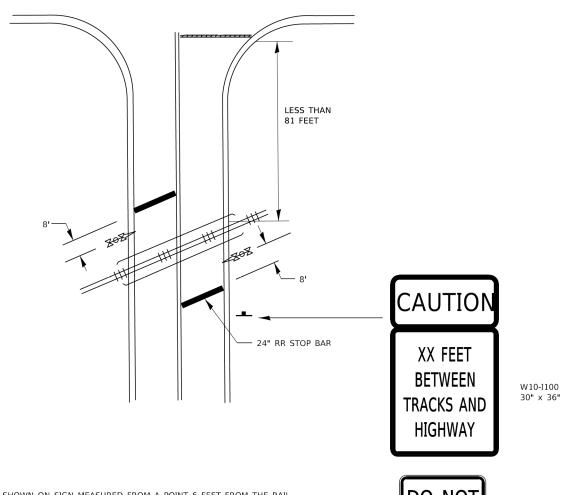
# WITH SIGNALIZED INTERSECTION



### NOTE:

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

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



### NOTE:

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

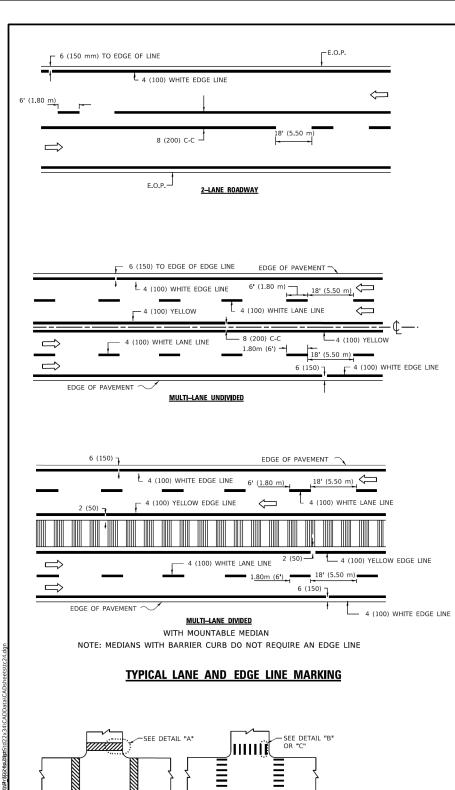
DO NOT STOP ON TRACKS

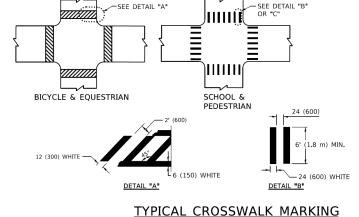
R8-8 24" x 30"

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

USER NAME = footemj	DESIGNED -	REVISED -		TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING	F.A.P. RTE	SECTION	COUNTY	TOTAL S	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		395	2020-134-RS	СООК	45	37
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -		TREATMENT FOR RAILROAD CROSSINGS		TC-23	CONTRACT	NO. 621	112
PLOT DATE = 3/4/2019	DATE -	REVISED -		SCALE: NONE SHEET 2 OF 2 SHEETS STA. TO STA.		ILLINOIS FED. AI	D PROJECT		

MODEL: Default

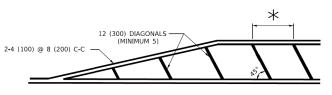




USER NAME = footemj

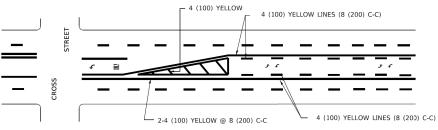
PLOT DATE = 3/4/2019

PLOT SCALE = 50.0000 ' / in.

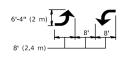


- $\star$  for median lengths where diagonal spacing CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED
- \* DIAGONAL LINE SPACING; 20' (6.1 m) C-C

### PAINTED MEDIANS

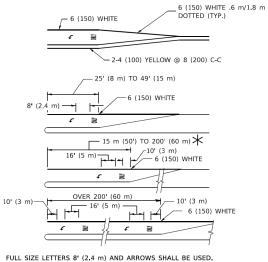


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

# TYPICAL PAINTED MEDIAN MARKING

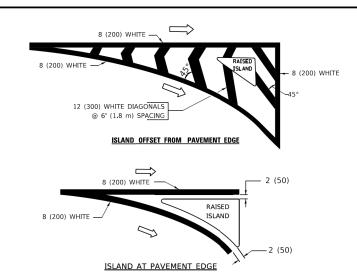


 $\uparrow$  AREA = 15.8 SQ. FT. (1.47 m<sup>2</sup>) **ONLY** AREA = 22.9 SQ. FT. (2.13 m<sup>2</sup>)

\* 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**



# **TYPICAL ISLAND MARKING**

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 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) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4 m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	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°	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	8 (200) 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: 20' (6.1 m) (LESS THAN 30 MPH (50 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 SO. FT. (0.33m <sup>2</sup> ) EACH "X"=54.0 SO. FT. (5.0 m <sup>2</sup> )

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)

REVISED -T. RAMMACHER 12-07-00 REVISED - K. ENG 02-28-12

24 (600)

24 (600) WHITE

REVISED

REVISED

CENTRAL DOWNTOWN BUSINESS DISTRICT

DETAIL "C"

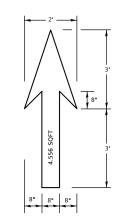
DESIGNED -

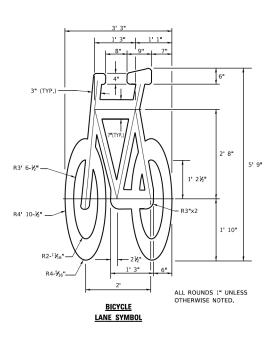
CHECKED -

DRAWN

DATE

CITY OF CHICAGO							F.A.P. RTE	A.P. SECTION			COUNTY TOTAL SHEET		SHEET NO.	
	TYPICAL PAVEMENT MARKINGS							395	395 2020-134-RS			COOK	45	38
								TC-24 CONTRAC				CONTRACT	T NO. 62M12	
SCALE: NONE	SHEET 1	OF	3	SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT						



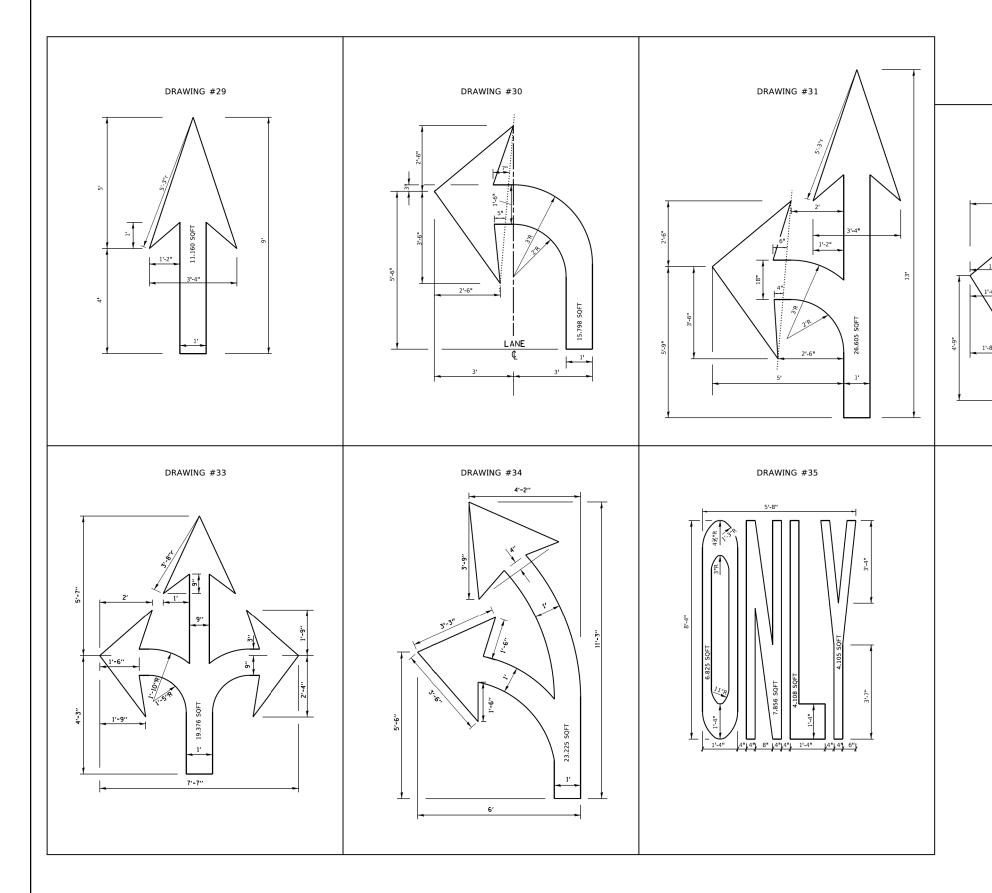


# NOTE:

- 1. FOR BIKE LANE SYMBOLS ONLY,
  USE PRE-FORMED THERMOPLASTIC
  WITH A MINIMUM THICKNESS OF 90 MILS,
  MINIMUM SKID RESISTANCE VALUE OF 60 BPN,
  & A MINIMUM INDEX OF REFRACTION OF 1.50.
- 2. THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS

DRAWING #28



# NOTE:

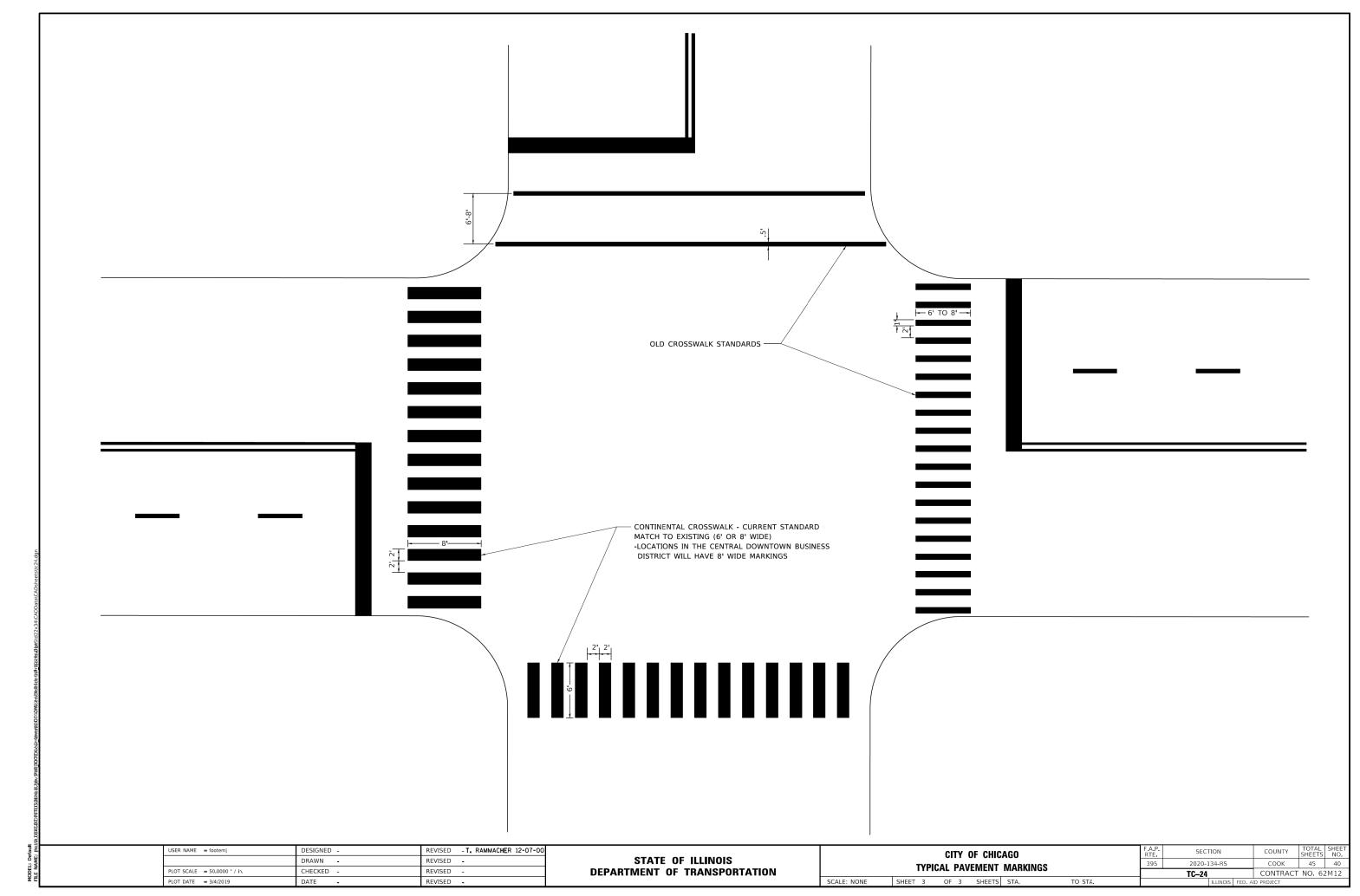
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

DRAWING #32

USER NAME = footemj	DESIGNED -	REVISED - I. RAMMACHER 12-07-00
	DRAWN -	REVISED -
PLOT SCALE = 50.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

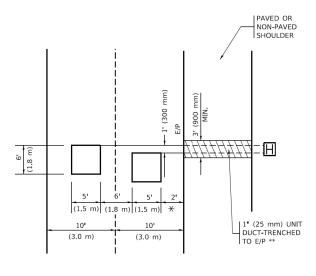
	CITY OF CHICAGO									
TYPICAL PAVEMENT MARKINGS										
TITICAL PAVEIVIENT INIANNINGS										
SCALE: NONE	SHEET 2	OF 3	SHEETS	STA.	TO STA.					



# 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.

USER NAME = footemj

PLOT DATE = 3/4/2019

PLOT SCALE = 50.0000 / in.

### ODG NEVT TO GUGUUDEDG

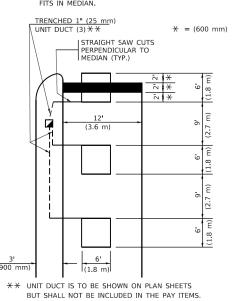
LEFT TURN LANES WITH MEDIANS

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
ITS IN MEDIAN



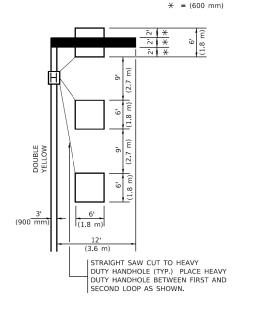
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

# LEFT TURN LANES WITHOUT MEDIANS

VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

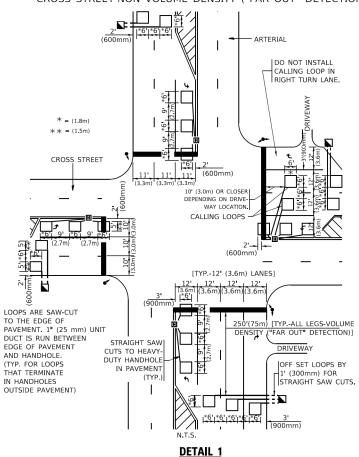
(PROTECTED / PERMITTED LEFT TURN PHASING)



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

SCALE: NONE

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



N.T.S.

DESIGNED -

CHECKED -

R.K.F.

DRAWN

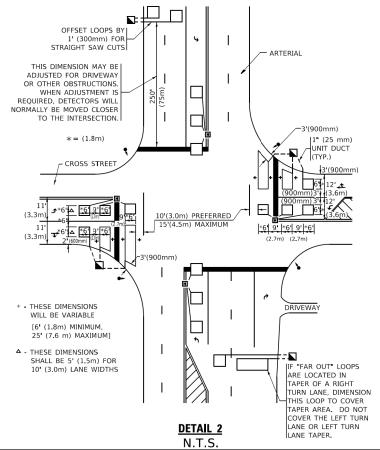
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ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)



### NOTES:

### VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIFLDED
- \* 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 <u>ALL</u> 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  $\underline{\mathsf{ALL}}$  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.

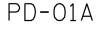
### NOTE:

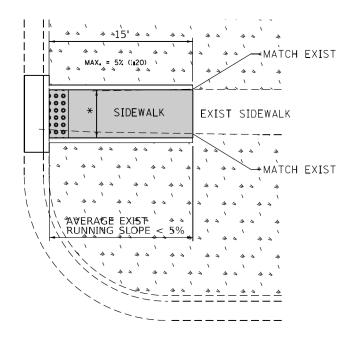
ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1
TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

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.

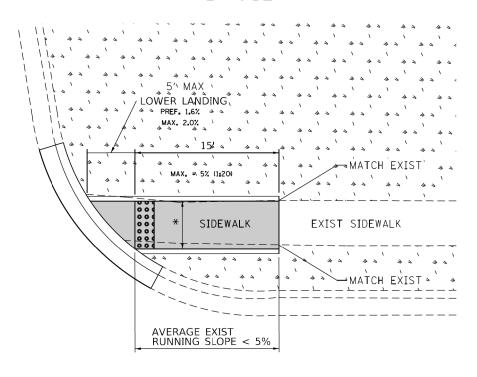
ILLINOIS FED. AID PROJECT						
	TS-07		CONTRACT	NO. 62	2M12	
395	2020-1	134-RS	COOK	45 41		
RTE	SECT	ΠΟΝ		COUNTY	SHEETS	NO.

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

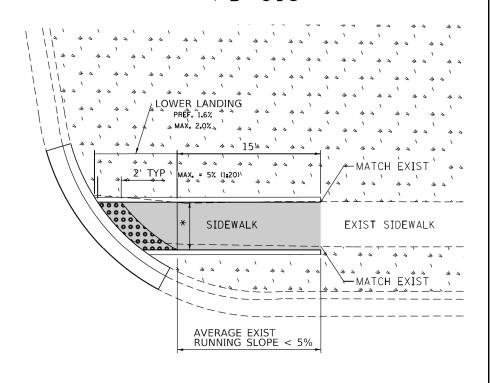




# PD-01B



# PD-01C



- ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50).
- SIDEWALK REALIGNMENT WILL REQUIRE DETAILED DESIGN.
- AREAS SURROUNDED BY PCC/ASPHALT, BUILDINGS, OR ARE NEAR TO DRIVEWAYS, REALIGNED SIDEWALK, UTILITY AND SIGNAL POLES, OR WHEN PRIVATE SIDEWALK TIES IN. WILL REQUIRE DETAILED SURVEY AND DESIGN.
- ALL BRICK CORNERS WILL REQUIRE SUPERVISOR APPROVAL BEFORE USING PROJECT DETAILS

# LEGEND

PROPOSED SIDE CURB



EXIST. GRASS



PROPOSED SIDEWALK



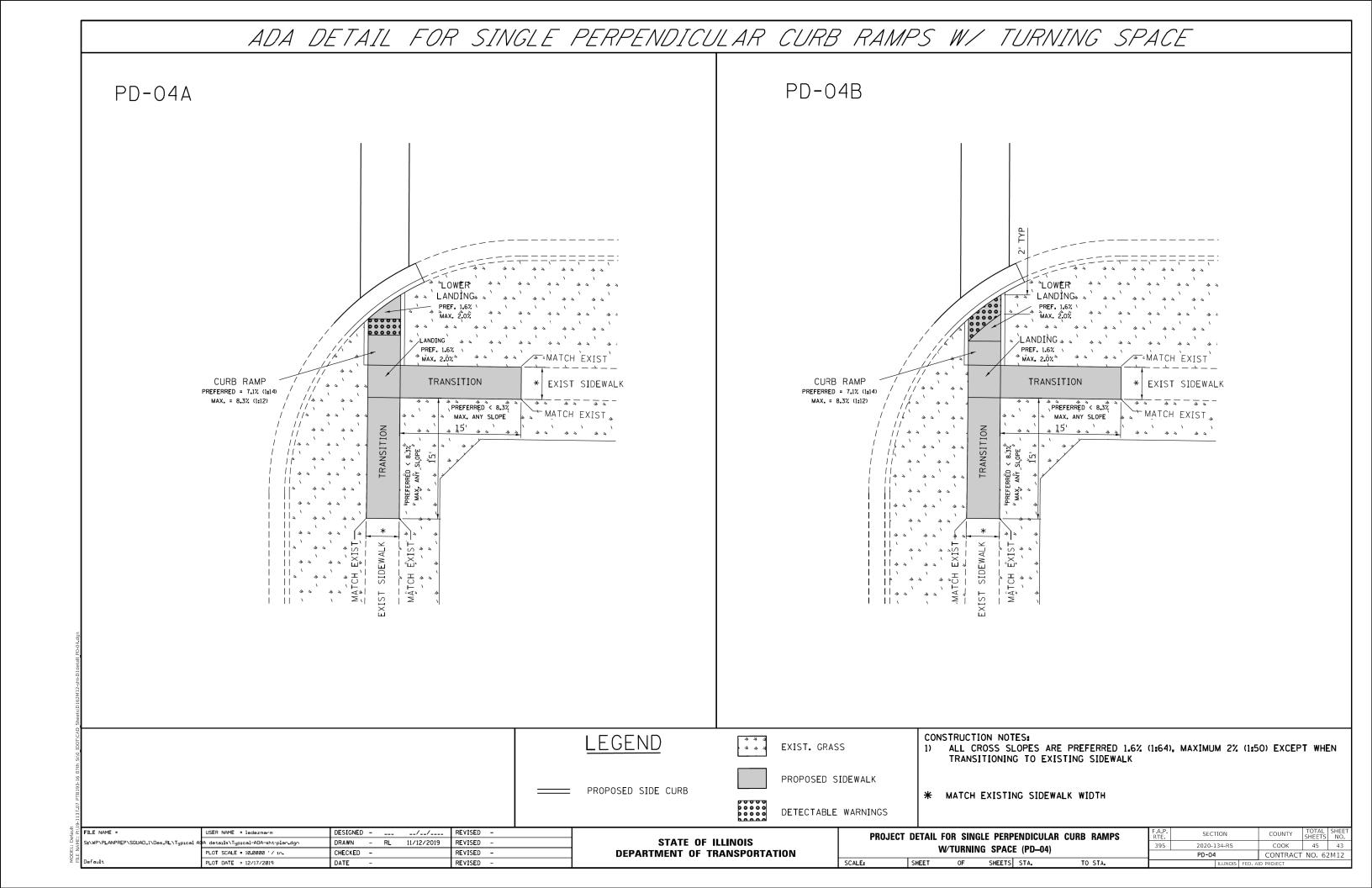
DETECTABLE WARNINGS

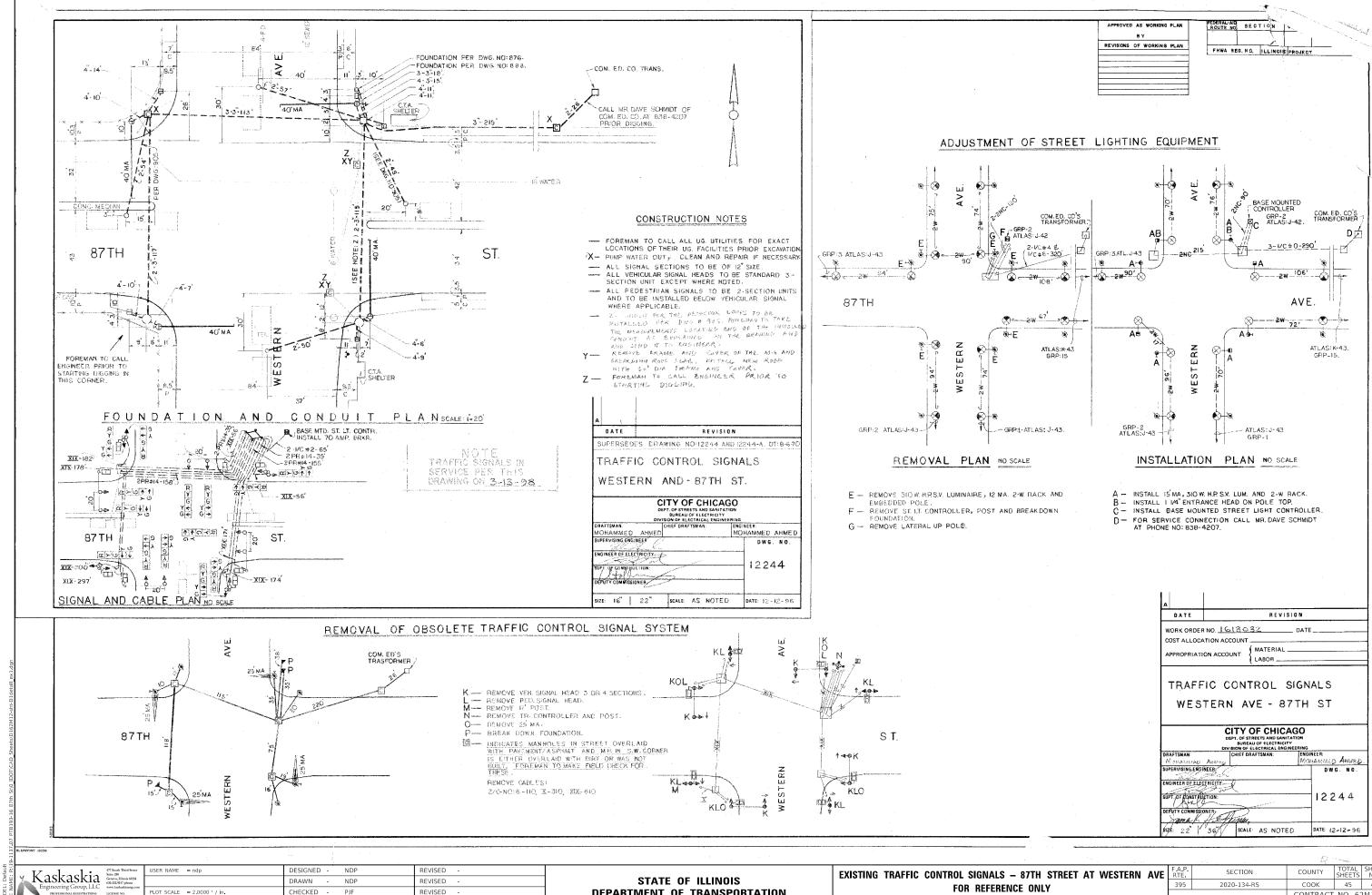
### CONSTRUCTION NOTES:

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

6									<u> </u>	
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Ē	Default	PLOT DATE = 12/17/2019	DATE	-			REVISED	-		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS 395 2020-134-RS COOK 45 42 (PD-01) CONTRACT NO. 62M12 PD-01 OF SHEETS STA. SHEET

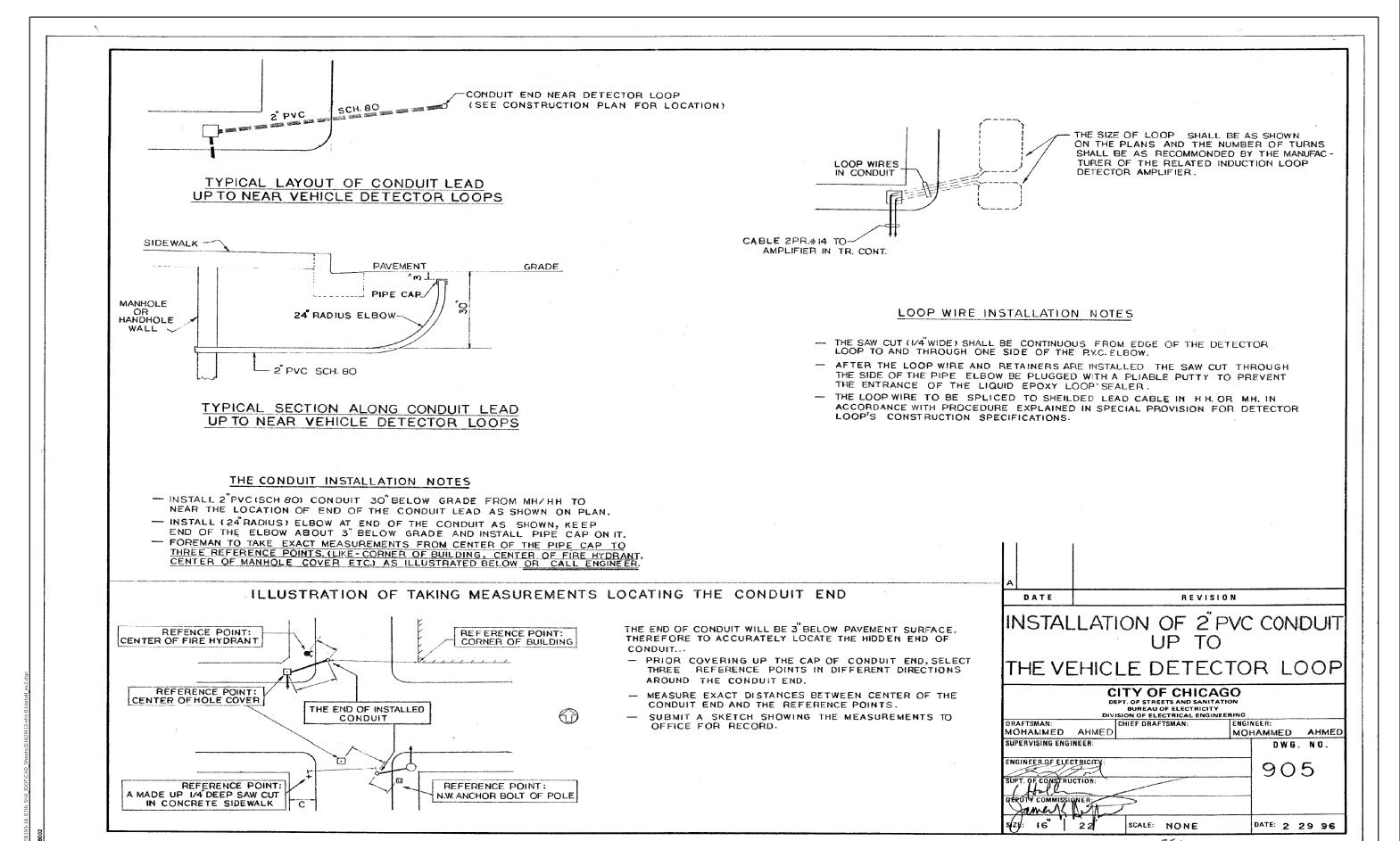




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**DEPARTMENT OF TRANSPORTATION** 

45 44 CONTRACT NO. 62M12



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CENTURY BLUEPRINT 10001

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE:

EXISTING VEHICLE DETECTOR LOOP DETAIL 905
FOR REFERENCE ONLY

SHEET OF SHEETS STA. TO STA.