

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-RS	COOK	61	1
ILLINOIS			CONTRACT NO. 62N80	

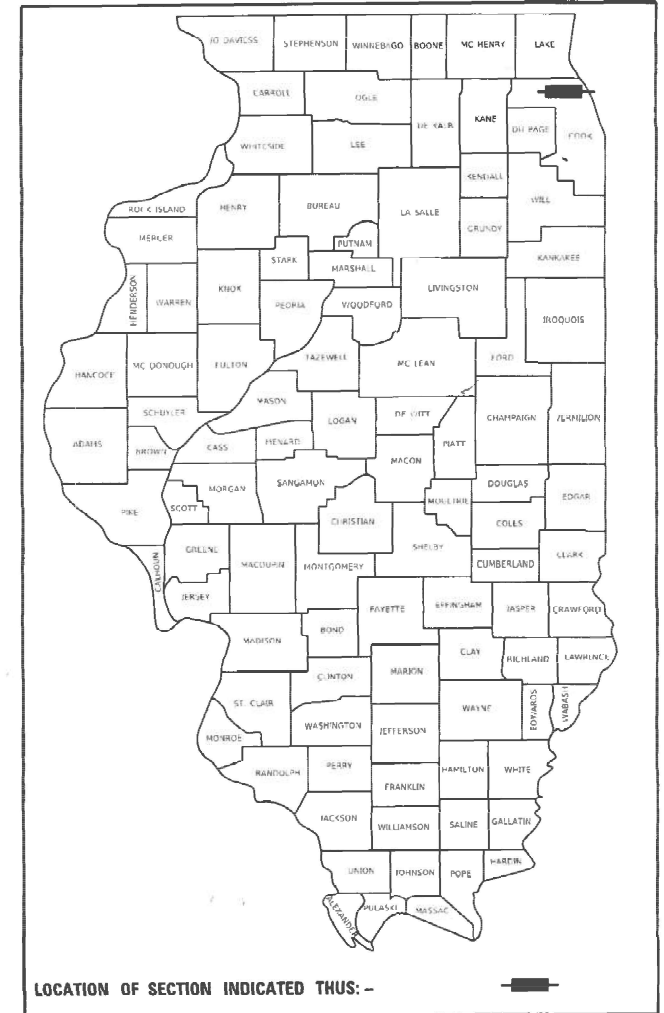
* 61 + 1 = 62 TOTAL SHEETS

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

THIS PROJECT IS LOCATED IN THE VILLAGES OF NORTHBROOK AND GLENVIEW

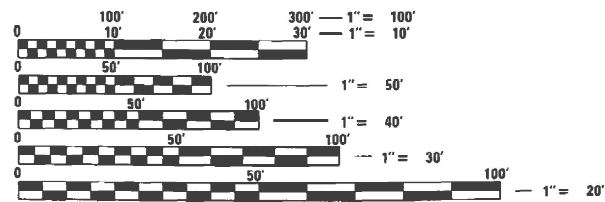
**PROPOSED
HIGHWAY PLANS**
FAP ROUTE 305 : WILLOW RD
LANDWEHR RD TO WEST OF IL-43 (WAUKEGAN RD)
SECTION: 2021-048-RS
PROJECT: NHPP-OCVG(139)
SMART OVERLAY, ADA IMPROVEMENTS
COOK COUNTY
C-91-153-21

D-91-130-21



TRAFFIC DATA

2019 ADT = 35,700 - 42,500 VPD
POSTED SPEED LIMIT = 40 MPH - 45 MPH

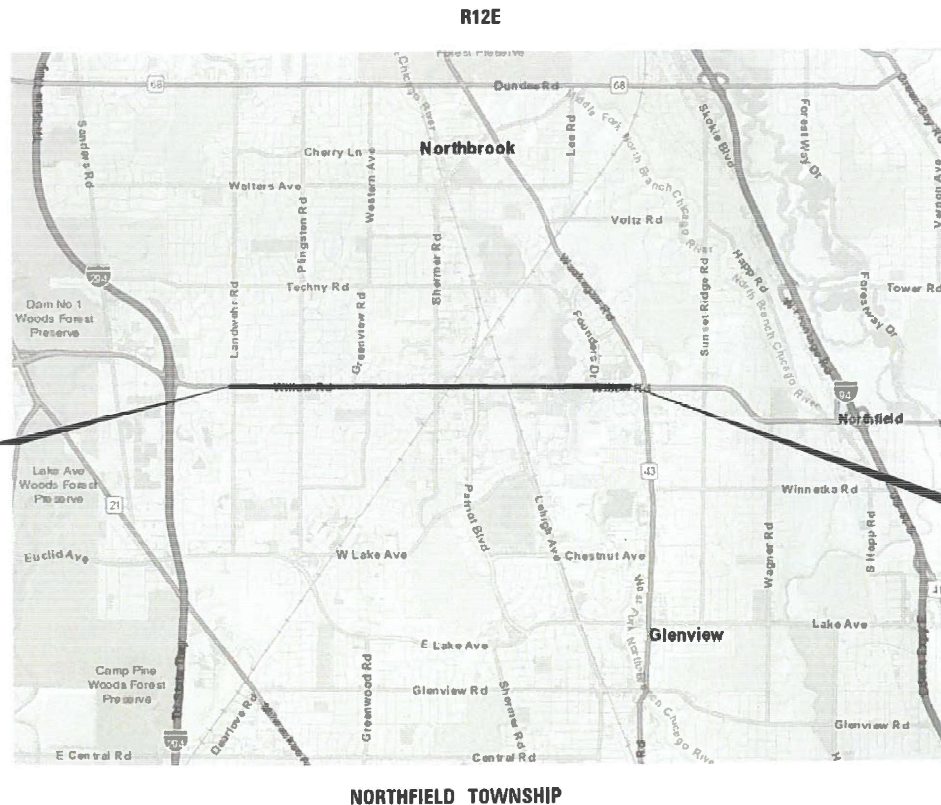


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705-4255
PROJECT MANAGER: FAWAD AQUEEL

CONTRACT NO. 62N80



PROJECT BEGINS
STA 14 + 89

PROJECT ENDS
STA. 167 + 65

GROSS LENGTH = 15,276 FT. = 2.89 MILE
NET LENGTH = 11,596 FT. = 2.20 MILE



Alexander Lane
ALEXANDER CARL LANE, P.E.
IL LIC. NO. 062-063261
EXP: 11/30/2023
DATE: 12/02/2022

INFRASTRUCTURE ENGINEERING INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.5560 | F 312.425.9561 | www.infrastructure-eng.com

CONTACT: ALEXANDER LANE (312) 477-0620

SURFACING OMISSION FROM
STA. 35 + 21 TO STA. 46 + 91
STA. 99 + 28 TO STA. 99 + 83
STA. 102 + 14 TO STA. 126 + 69

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED DECEMBER 14 2022
Alexander Lane
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

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN		0021	
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW
44003100	MEDIAN REMOVAL	SQ FT	16,002	16,002			
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	850	850			
44200050	WELDED WIRE REINFORCEMENT	SQ YD	520	520			
44200970	CLASS B PATCHES, TYPE II, 10 INCH	SQ YD	560	560			
44200974	CLASS B PATCHES, TYPE III, 10 INCH	SQ YD	400	400			
44200976	CLASS B PATCHES, TYPE IV, 10 INCH	SQ YD	120	120			
44201299	DOWEL BARS 1 1/2"	EACH	1,860	1,860			
44201777	CLASS D PATCHES, TYPE II, 11 INCH	SQ YD	50	50			
44201781	CLASS D PATCHES, TYPE III, 11 INCH	SQ YD	100	100			
44201783	CLASS D PATCHES, TYPE IV, 11 INCH	SQ YD	4,647	4,647			
44213200	SAW CUTS	FOOT	4,968	4,968			
44213204	TIE BARS 3/4"	EACH	45	45			
45200100	JOINT OR CRACK ROUTING (PC CONCRETE PAVEMENT AND SHOULDER)	FOOT	8,356	8,356			
45200300	JOINT OR CRACK FILLING	POUND	2,630	2,630			
60252000	CATCH BASINS TO BE RECONSTRUCTED	EACH	16	16			
60260100	INLETS TO BE ADJUSTED	EACH	2	2			
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	28	28			
60622400	CONCRETE MEDIAN, TYPE SM-6.06	SQ FT	1,939	1,939			
60622000	CONCRETE MEDIAN, TYPE SM-6.12	SQ FT	706	706			
63301210	REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	50.0	50.0			
63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	3	3			
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	265	265			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	10	10			
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1			

* = SPECIALTY ITEM

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	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES	
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	
SCALE: NTS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	4
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N80	

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN			
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1			
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	6	6			
67100100	MOBILIZATION	L SUM	1	1			
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1			
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1			
70103015	TRAFFIC CONTROL SURVEILLANCE	CAL DA	50	50			
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	56	56			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	2,822	2,822			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	941	941			
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	3,108	3,108			
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	42,176	42,176			
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	7,339	7,339			
70300251	TEMPORARY PAVEMENT MARKING - LINE 8"- PAINT	FOOT	1,102	1,102			
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	6,761	6,761			
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	1,123	1,123			
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	2,822	2,822			
* 72000100	SIGN PANEL - TYPE 1	SQ FT	21	21			
* 72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	14	14			

* = SPECIALTY ITEM

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

**SUMMARY OF QUANTITIES
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: NTS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	5
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N80	

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN		0021	
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW
* 72400320	REMOVE SIGN PANEL - TYPE 2	SQ FT	315				315
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	52	52			
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	2,417	2,417			
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	35,786	35,786			
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5,043	5,043			
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	1,003	1,003			
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	5,768	5,768			
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	863	863			
* 78003137	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7"	FOOT	1,256	1,256			
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMEOLS	SQ FT	692	692			
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	5,135	5,135			
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	2,297	2,297			
* 78009008	MODIFIED URETHANE PAVEMENT MARKING - LINE 8"	FOOT	99	99			
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	994	994			
* 78009024	MODIFIED URETHANE PAVEMENT MARKING - LINE 24"	FOOT	260	260			
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	1,256	1,256			
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1,180	1,180			
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1,180	1,180			
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	5,549	5,549			
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	286			286	
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	7			7	
* 85100100	PAINT EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	5				5
* 85100500	PAINT NEW TRAFFIC SIGNAL POST	EACH	5				5

* = SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: NTS


STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	6
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

PAY ITEM NUMBER	DESIGNATION	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE			
				URBAN			
				80% FEDERAL 20% STATE	100% STATE	80% FEDERAL 20% STATE	100% VILLAGE OF GLENVIEW
* 87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	5,797			5,797	
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	1,843			1,843	
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	150			150	
87900200	DRILL EXISTING HANDHOLE	EACH	15			15	
* 88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	14			14	
* 88600100	DETECTOR LOOP, TYPE I	FOOT	4,622			4,622	
* 89500200	RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	3			3	
* 89502200	MODIFY EXISTING CONTROLLER	EACH	4			4	
89502350	REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	153			153	
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	7			7	
* 89502376	REBUILD EXISTING HANDHOLE	EACH	4			4	
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1			1	
* X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	18				18
* X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	15			15	
* X1400424	ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	3,600				3,600
* X1400450	REBUILD EXISTING HEAVY-DUTY HANDHOLE	EACH	3			3	
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	4,435	4,435			
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	3,602	3,602			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	600		600		
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	27	27			
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12			
* X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	54			54	
* X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	60			60	

* = SPECIALTY ITEM

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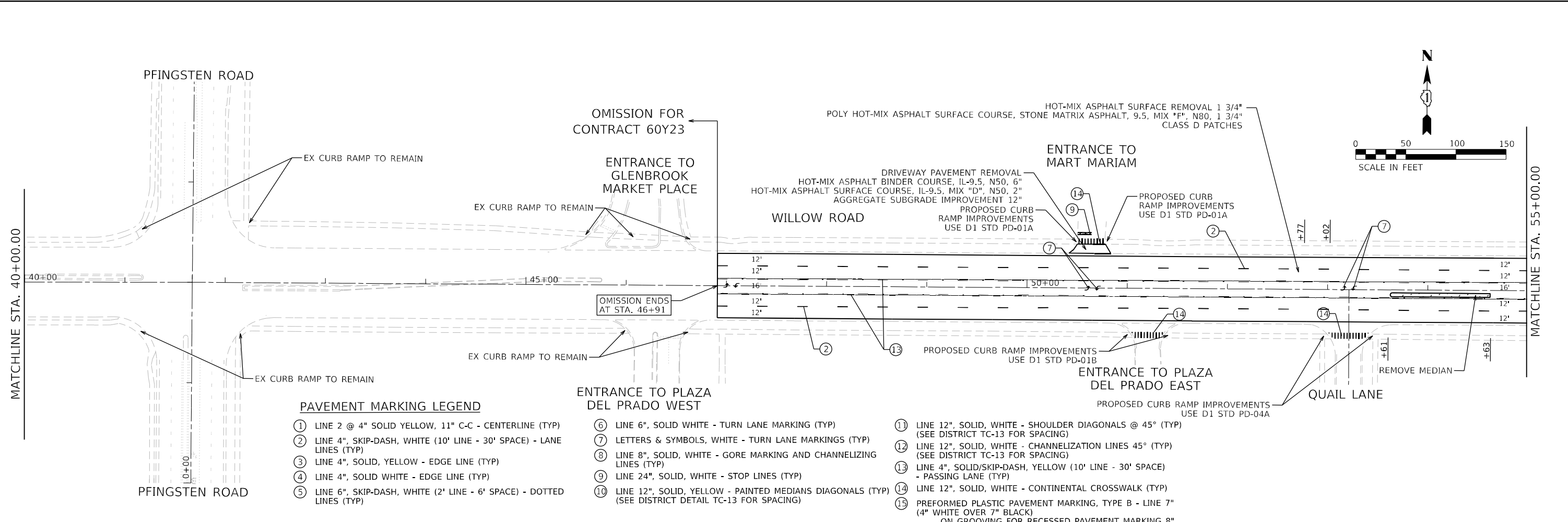

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

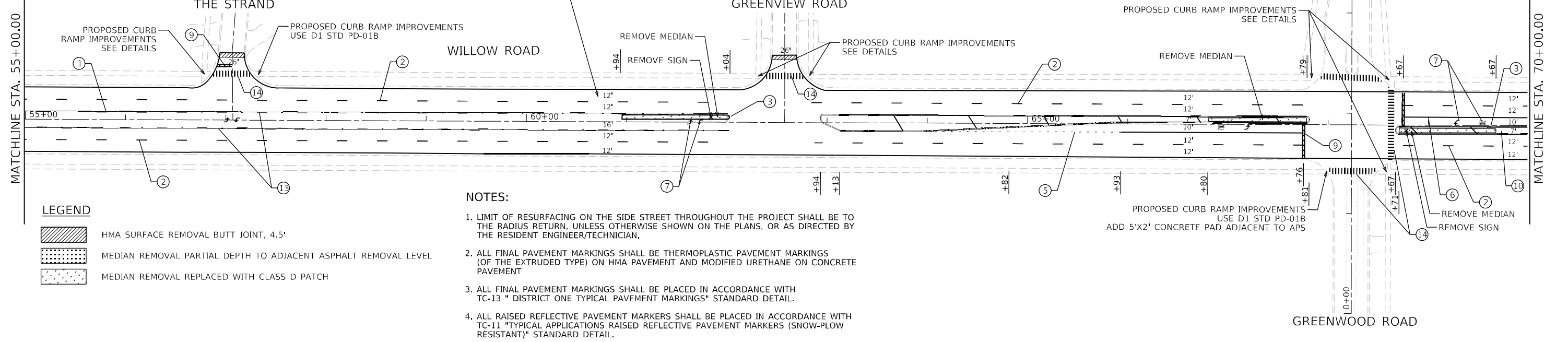
SCALE: NTS		SUMMARY OF QUANTITIES	
		WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	
STA.	TO STA.		

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	7
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- ① LINE 2 @ 4" SOLID YELLOW, 11" C-C - CENTERLINE (TYP)
- ② LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (TYP)
- ③ LINE 4", SOLID, YELLOW - EDGE LINE (TYP)
- ④ LINE 4", SOLID WHITE - EDGE LINE (TYP)
- ⑤ LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)
- ⑥ LINE 6", SOLID WHITE - TURN LANE MARKING (TYP)
- ⑦ LETTERS & SYMBOLS, WHITE - TURN LANE MARKINGS (TYP)
- ⑧ LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP)
- ⑨ LINE 24", SOLID, WHITE - STOP LINES (TYP)
- ⑩ LINE 12", SOLID, YELLOW - PAINTED MEDIANS DIAGONALS (TYP) (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- ⑪ LINE 12", SOLID, WHITE - SHOULDER DIAGONALS @ 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑫ LINE 12", SOLID, WHITE - CHANNELIZATION LINES 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑬ LINE 4", SOLID/SKIP-DASH, YELLOW (10' LINE - 30' SPACE) - PASSING LANE (TYP)
- ⑭ LINE 12", SOLID, WHITE - CONTINENTAL CROSSWALK (TYP)
- ⑮ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (4" WHITE OVER 7" BLACK) ON GROOVING FOR RECESSED PAVEMENT MARKING 8"



LEGEND

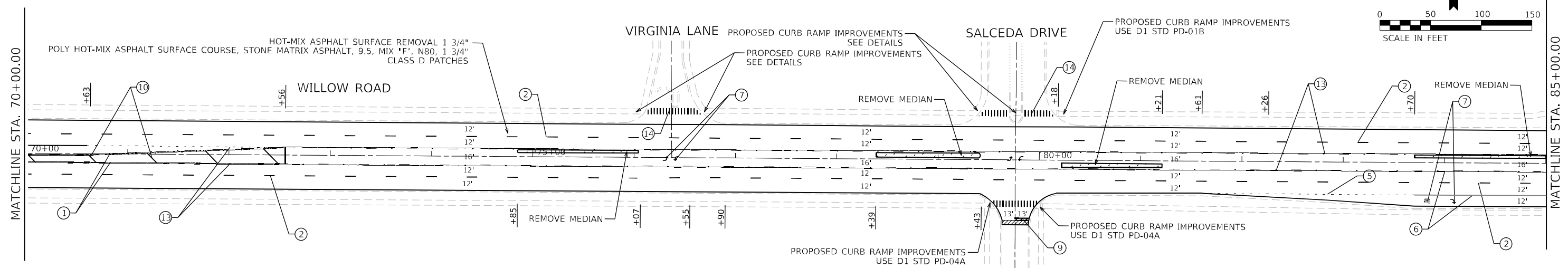
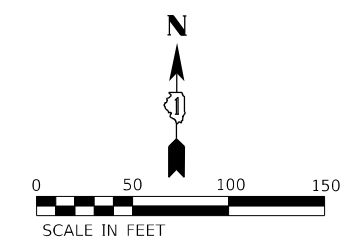
- HMA SURFACE REMOVAL BUTT JOINT, 4.5'
- MEDIAN REMOVAL PARTIAL DEPTH TO ADJACENT ASPHALT REMOVAL LEVEL
- MEDIAN REMOVAL REPLACED WITH CLASS D PATCH

NOTES:

1. LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT AND MODIFIED URETHANE ON CONCRETE PAVEMENT
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "TYPICAL APPLICATIONS TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

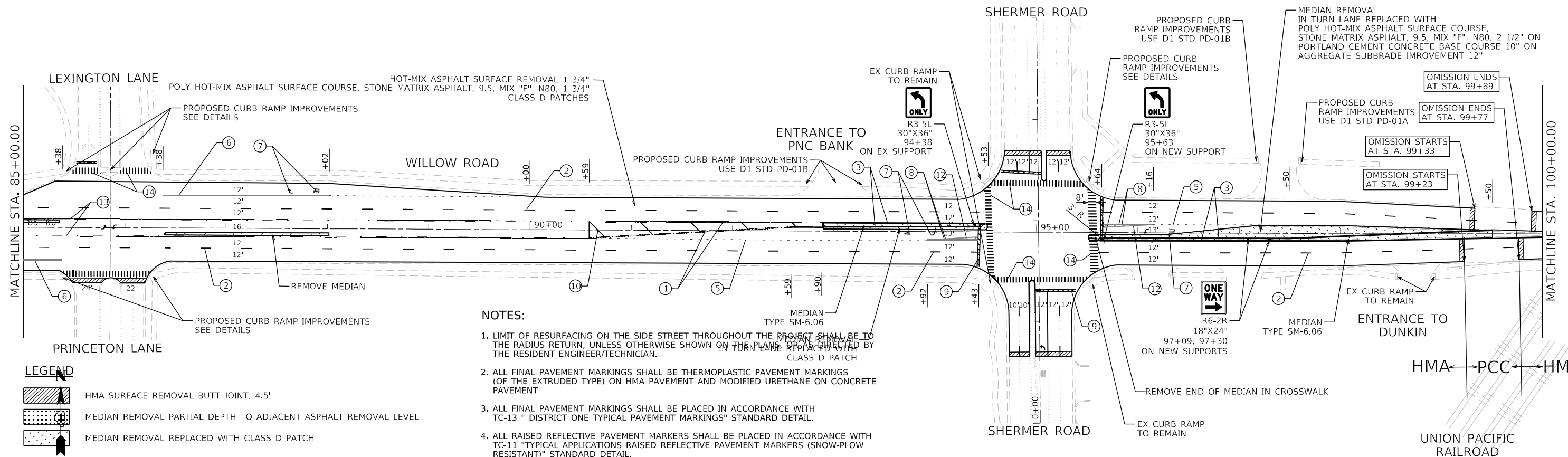
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 INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9599 F 312.425.9598 www.infrastructure-eng.com	USER NAME = Alane	DESIGNED - MLD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 12
	PLOT SCALE = 100,000' / in.	CHECKED - ACL	REVISED -			SCALE: 1" = 50'	STA. TO STA.	CONTRACT NO. 62N80		ILLINOIS FED. AID PROJECT



PAVEMENT MARKING LEGEND

- ① LINE 2 @ 4" SOLID YELLOW, 11" C-C - CENTERLINE (TYP)
- ② LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (TYP)
- ③ LINE 4", SOLID, YELLOW - EDGE LINE (TYP)
- ④ LINE 4", SOLID WHITE - EDGE LINE (TYP)
- ⑤ LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)
- ⑥ LINE 6", SOLID WHITE - TURN LANE MARKING (TYP)
- ⑦ LETTERS & SYMBOLS, WHITE - TURN LANE MARKINGS (TYP)
- ⑧ LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP)
- ⑨ LINE 24", SOLID, WHITE - STOP LINES (TYP)
- ⑩ LINE 12", SOLID, YELLOW - PAINTED MEDIANS DIAGONALS (TYP) (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- ⑪ LINE 12", SOLID, WHITE - SHOULDER DIAGONALS @ 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑫ LINE 12", SOLID, WHITE - CHANNELIZATION LINES 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑬ LINE 4", SOLID/SKIP-DASH, YELLOW (10' LINE - 30' SPACE) - PASSING LANE (TYP)
- ⑭ LINE 12", SOLID, WHITE - CONTINENTAL CROSSWALK (TYP)
- ⑮ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (4" WHITE OVER 7" BLACK) ON GROOVING FOR RECESSED PAVEMENT MARKING 8"



NOTES:

1. LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS. TURN LANE REPAVED WITH CLASS D PATCH
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT AND MODIFIED URETHANE ON CONCRETE PAVEMENT
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

LEGEND

- HMA SURFACE REMOVAL BUTT JOINT, 4.5'
- MEDIAN REMOVAL PARTIAL DEPTH TO ADJACENT ASPHALT REMOVAL LEVEL
- MEDIAN REMOVAL REPLACED WITH CLASS D PATCH

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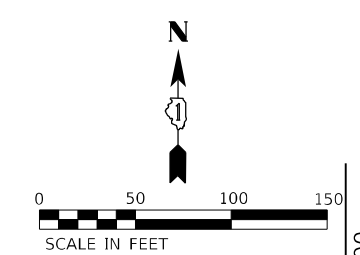
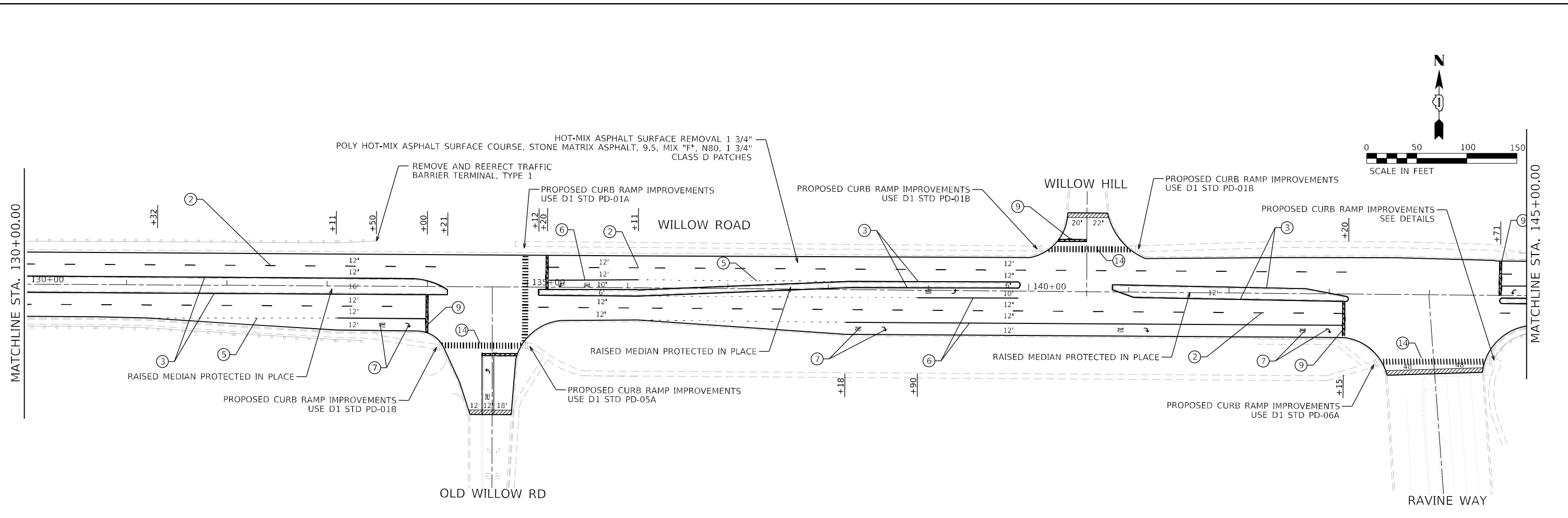
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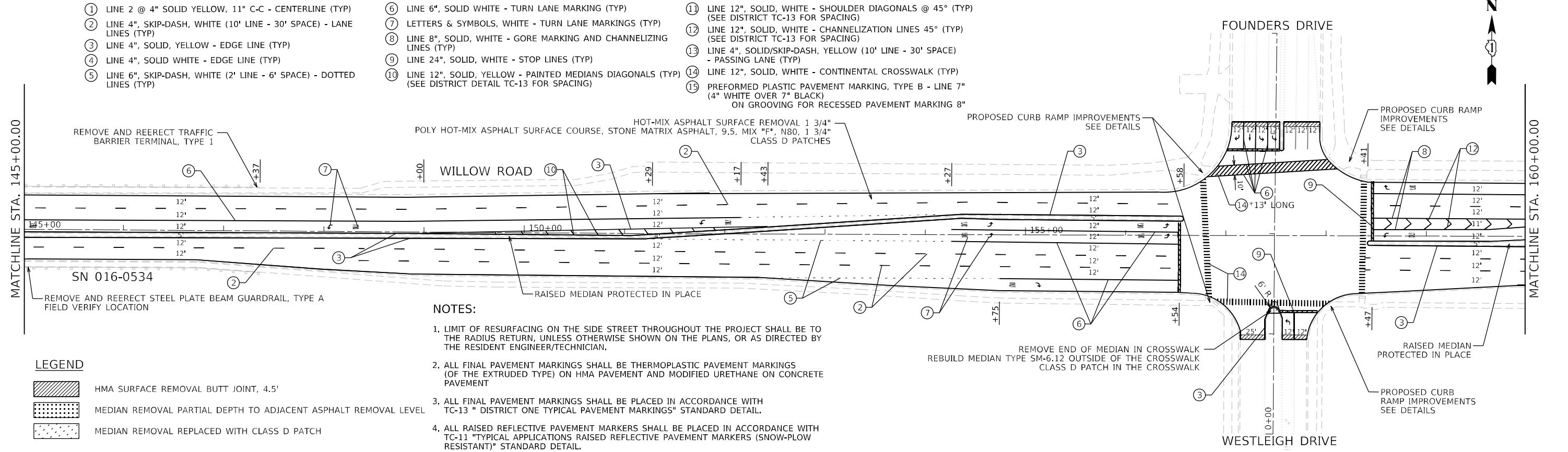
ROADWAY AND PAVEMENT MARKING PLANS
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)
 SCALE: 1" = 50'

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 13
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



PAVEMENT MARKING LEGEND

- ① LINE 2 @ 4" SOLID YELLOW, 11" C-C - CENTERLINE (TYP)
- ② LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (TYP)
- ③ LINE 4", SOLID, YELLOW - EDGE LINE (TYP)
- ④ LINE 4", SOLID WHITE - EDGE LINE (TYP)
- ⑤ LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP)
- ⑥ LINE 6", SOLID WHITE - TURN LANE MARKING (TYP)
- ⑦ LETTERS & SYMBOLS, WHITE - TURN LANE MARKINGS (TYP)
- ⑧ LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP)
- ⑨ LINE 24", SOLID, WHITE - STOP LINES (TYP)
- ⑩ LINE 12", SOLID, YELLOW - PAINTED MEDIANS DIAGONALS (TYP) (SEE DISTRICT DETAIL TC-13 FOR SPACING)
- ⑪ LINE 12", SOLID, WHITE - SHOULDER DIAGONALS @ 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑫ LINE 12", SOLID, WHITE - CHANNELIZATION LINES 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING)
- ⑬ LINE 4", SOLID/SKIP-DASH, YELLOW (10' LINE - 30' SPACE) - PASSING LANE (TYP)
- ⑭ LINE 12", SOLID, WHITE - CONTINENTAL CROSSWALK (TYP)
- ⑮ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (4" WHITE OVER 7" BLACK) ON GROOVING FOR RECESSED PAVEMENT MARKING 8"



NOTES:

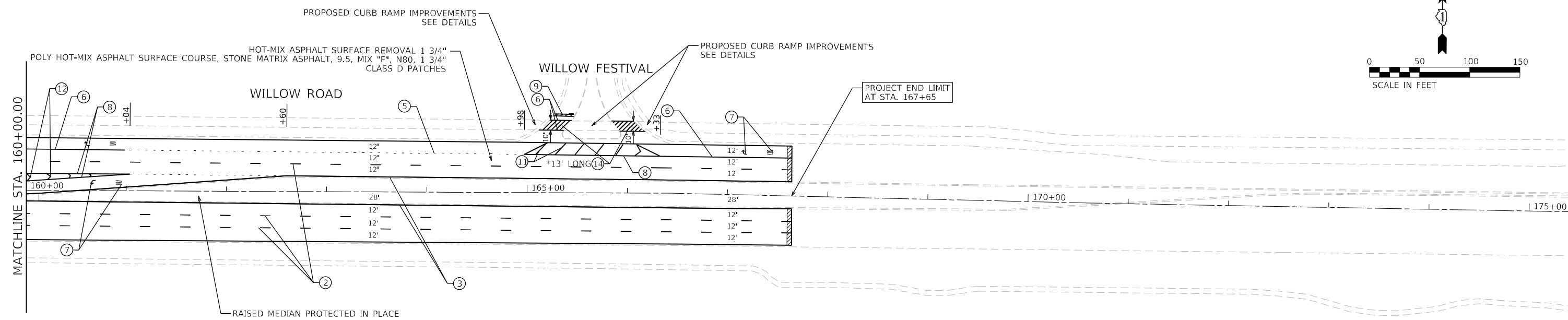
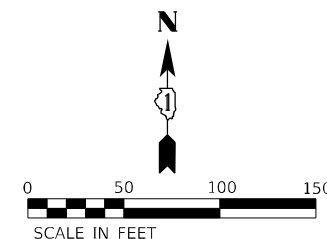
1. LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT AND MODIFIED URETHANE ON CONCRETE PAVEMENT
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

LEGEND




- HMA SURFACE REMOVAL BUTT JOINT, 4.5'
- MEDIAN REMOVAL PARTIAL DEPTH TO ADJACENT ASPHALT REMOVAL LEVEL
- MEDIAN REMOVAL REPLACED WITH CLASS D PATCH

MODEL: P:\d\inf\11\2021\048-R5\DOT_Visibus Phase 2 (TYP).106 Item: 161110_26_62N80\DC\CA\DOT Streets\1621085-SHT-PL-AL415.dgn

	USER NAME = ALane	DESIGNED - MLD	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 15
	PLOT SCALE = 100,0000' / in.	CHECKED - ACL	REVISED -			SCALE: 1" = 50'	STA. TO STA.	CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT		
INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com	DATE - 12/08/2022									



LEGEND

-  HMA SURFACE REMOVAL BUTT JOINT, 4.5'
-  MEDIAN REMOVAL PARTIAL DEPTH TO ADJACENT ASPHALT REMOVAL LEVEL
-  MEDIAN REMOVAL REPLACED WITH CLASS D PATCH

NOTES:

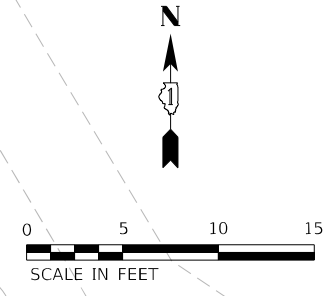
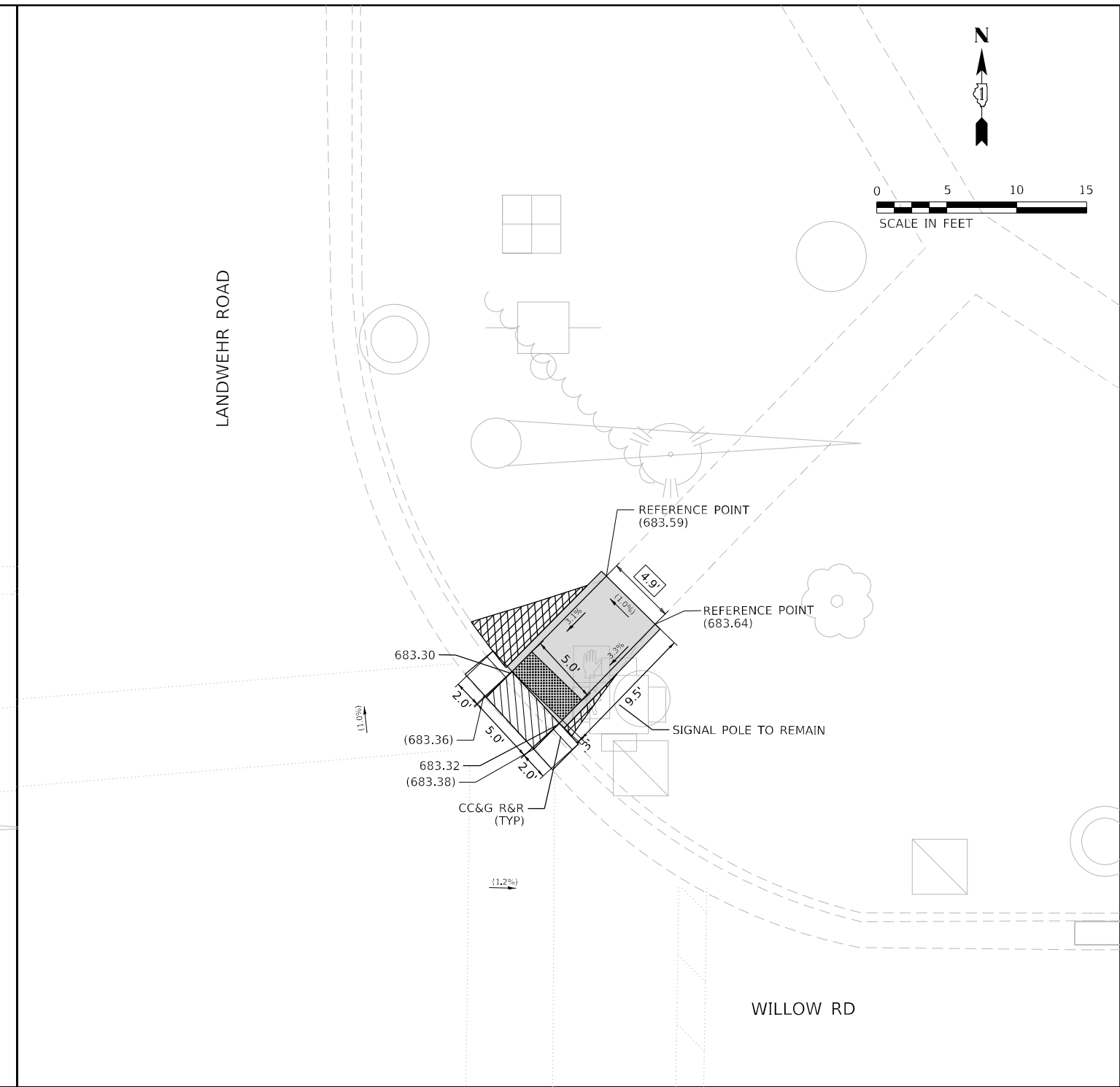
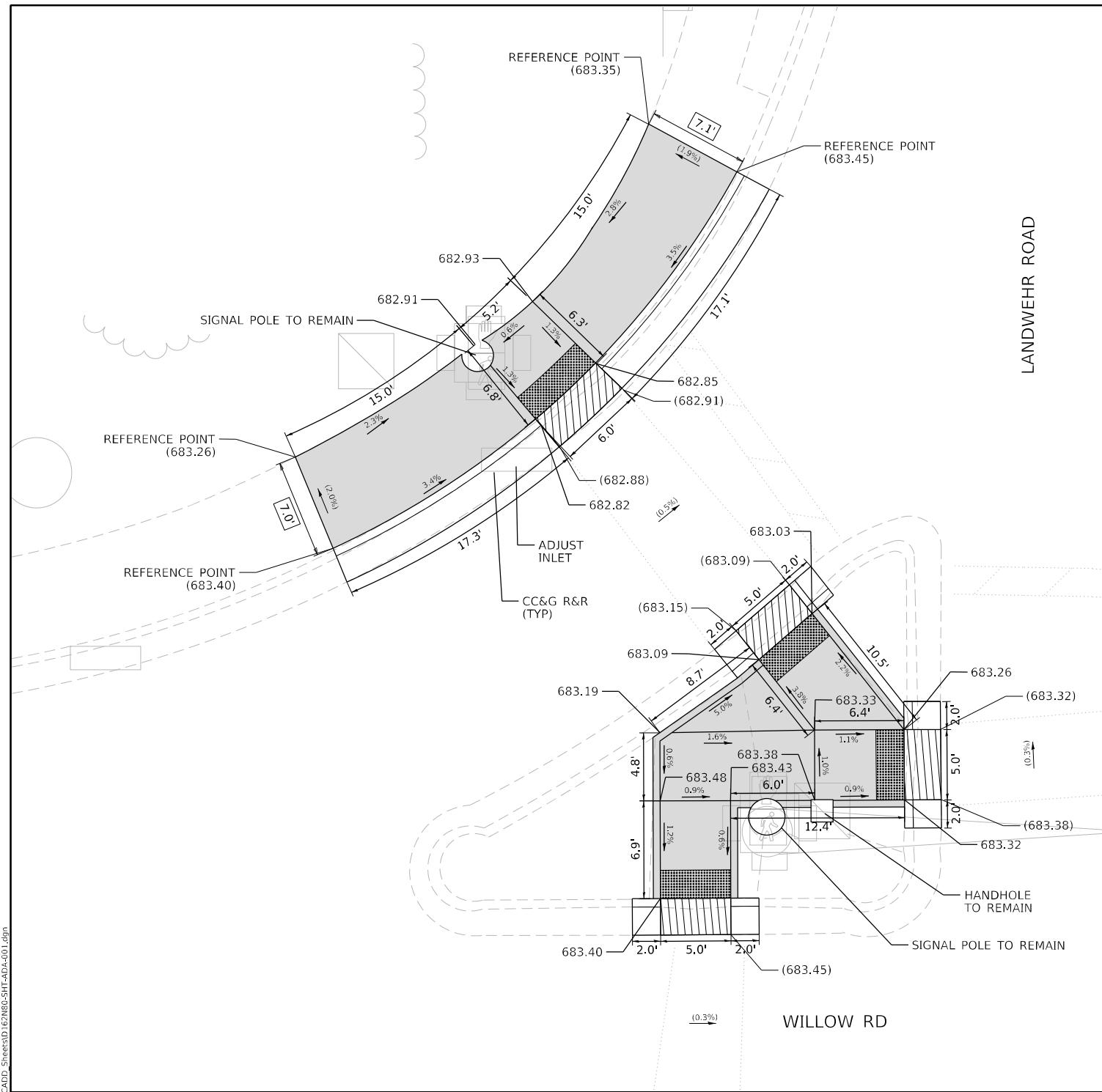
1. LIMIT OF RESURFACING ON THE SIDE STREET THROUGHOUT THE PROJECT SHALL BE TO THE RADIUS RETURN, UNLESS OTHERWISE SHOWN ON THE PLANS, OR AS DIRECTED BY THE RESIDENT ENGINEER/TECHNICIAN.
2. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC PAVEMENT MARKINGS (OF THE EXTRUDED TYPE) ON HMA PAVEMENT AND MODIFIED URETHANE ON CONCRETE PAVEMENT
3. ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH TC-13 "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" STANDARD DETAIL.
4. ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH TC-11 "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" STANDARD DETAIL.

PAVEMENT MARKING LEGEND

- | | | |
|--|--|--|
| <ul style="list-style-type: none"> ① LINE 2 @ 4" SOLID YELLOW, 11" C-C - CENTERLINE (TYP) ② LINE 4", SKIP-DASH, WHITE (10' LINE - 30' SPACE) - LANE LINES (TYP) ③ LINE 4", SOLID, YELLOW - EDGE LINE (TYP) ④ LINE 4", SOLID WHITE - EDGE LINE (TYP) ⑤ LINE 6", SKIP-DASH, WHITE (2' LINE - 6' SPACE) - DOTTED LINES (TYP) | <ul style="list-style-type: none"> ⑥ LINE 6", SOLID WHITE - TURN LANE MARKING (TYP) ⑦ LETTERS & SYMBOLS, WHITE - TURN LANE MARKINGS (TYP) ⑧ LINE 8", SOLID, WHITE - GORE MARKING AND CHANNELIZING LINES (TYP) ⑨ LINE 24", SOLID, WHITE - STOP LINES (TYP) ⑩ LINE 12", SOLID, YELLOW - PAINTED MEDIANS DIAGONALS (TYP) (SEE DISTRICT DETAIL TC-13 FOR SPACING) | <ul style="list-style-type: none"> ⑪ LINE 12", SOLID, WHITE - SHOULDER DIAGONALS @ 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING) ⑫ LINE 12", SOLID, WHITE - CHANNELIZATION LINES 45° (TYP) (SEE DISTRICT TC-13 FOR SPACING) ⑬ LINE 4", SOLID/SKIP-DASH, YELLOW (10' LINE - 30' SPACE) - PASSING LANE (TYP) ⑭ LINE 12", SOLID, WHITE - CONTINENTAL CROSSWALK (TYP) ⑮ PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 7" (4" WHITE OVER 7" BLACK) ON GROOVING FOR RECESSED PAVEMENT MARKING 8" |
|--|--|--|

MODEL: P:\dof\h\...
 FILE NAME: P:\DOT_Visibilty Phase 2 (TPE)_106 Item 16\WV_26 62N80\DOT\CADD_Sheets\62N80-SHT-PL-4146.dgn
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P 312.425.9598 | F 312.425.9599 | www.infrastructure-eng.com

 INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9599 www.infrastructure-eng.com	USER NAME = Alane DESIGNED - MLD DRAWN - MLD CHECKED - ACL DATE - 12/08/2022	DESIGNED - MLD DRAWN - MLD CHECKED - ACL DATE - 12/08/2022	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY AND PAVEMENT MARKING PLANS WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	F.A.P. RTE. 305 SECTION 2021-048-R5 COUNTY COOK TOTAL SHEETS 61 SHEET NO. 16	CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT
	PLOT SCALE = 100,0000' / in.		SCALE: 1" = 50'		STA. TO STA.	



REFERENCE BENCHMARK 1000-1905, ELEV. 684.00
 BENCHMARK: NW CORNER CONC. BASE OF TCB
 LOCATION: SW CORNER OF WILLOW RD AND LANDWEHR

LEGEND

xx.xx'	EXISTING LENGTH
()	EXISTING ELEVATION / SLOPE
[Solid Grey]	PROPOSED SIDEWALK
[Grid Pattern]	DETECTABLE WARNINGS
[Cross-hatch Pattern]	SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
[Diagonal Lines]	DEPRESSED CURB AND GUTTER
[Single Line]	PROPOSED SIDE CURB
[X Pattern]	PAVEMENT REMOVAL

MODEL: ADA
 FILE NAME: P:\P\2020\4094-00 IDOT VnHous Phase 2 (ITB) 106 Item 16\W\0_26 62N80\DC\CADD Streets\162\MS-SHT-ADA-001.dgn



USER NAME = Alane	DESIGNED - BPP	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - BPP	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

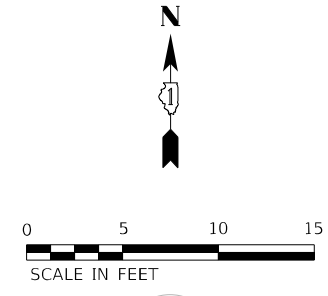
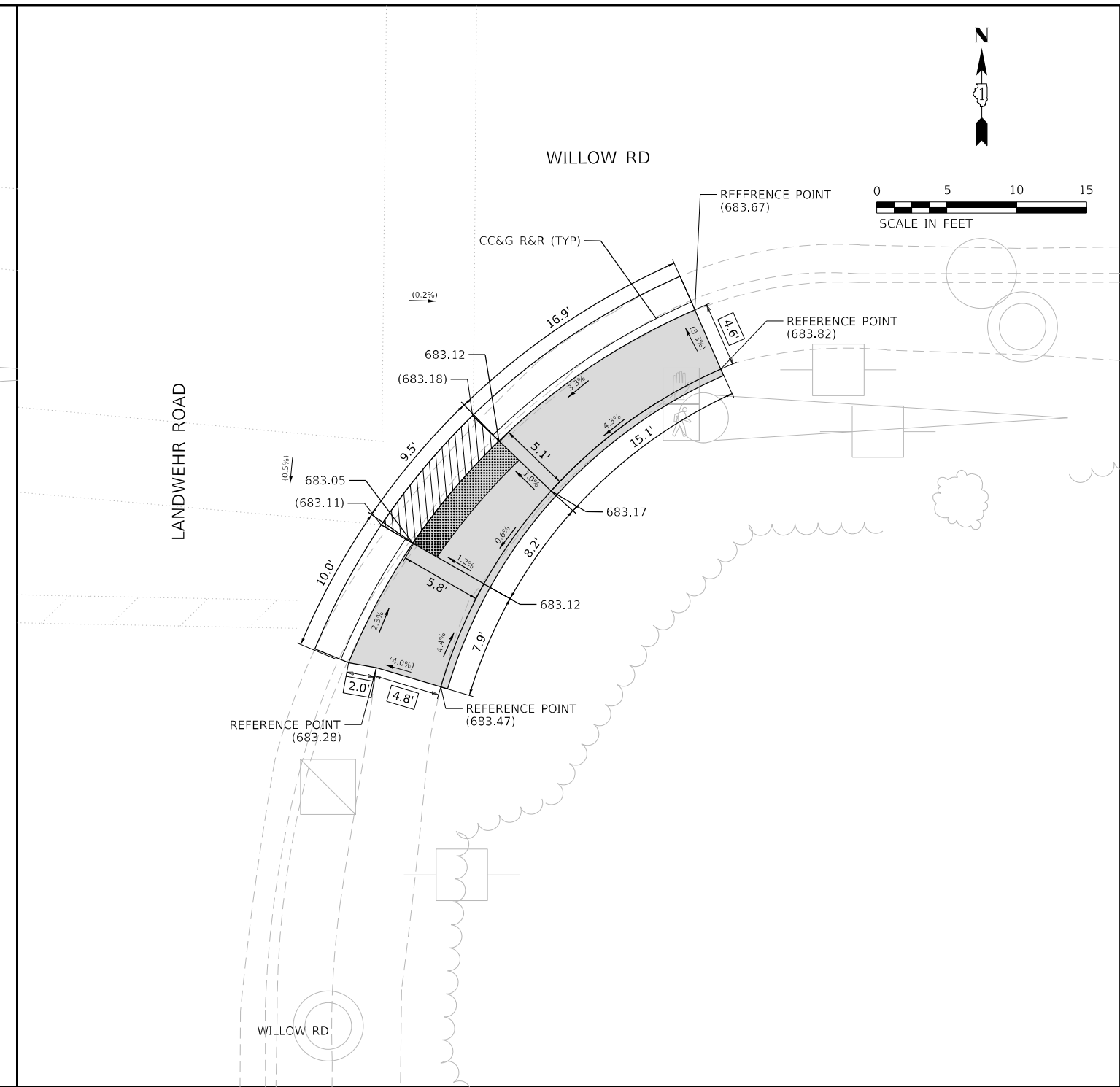
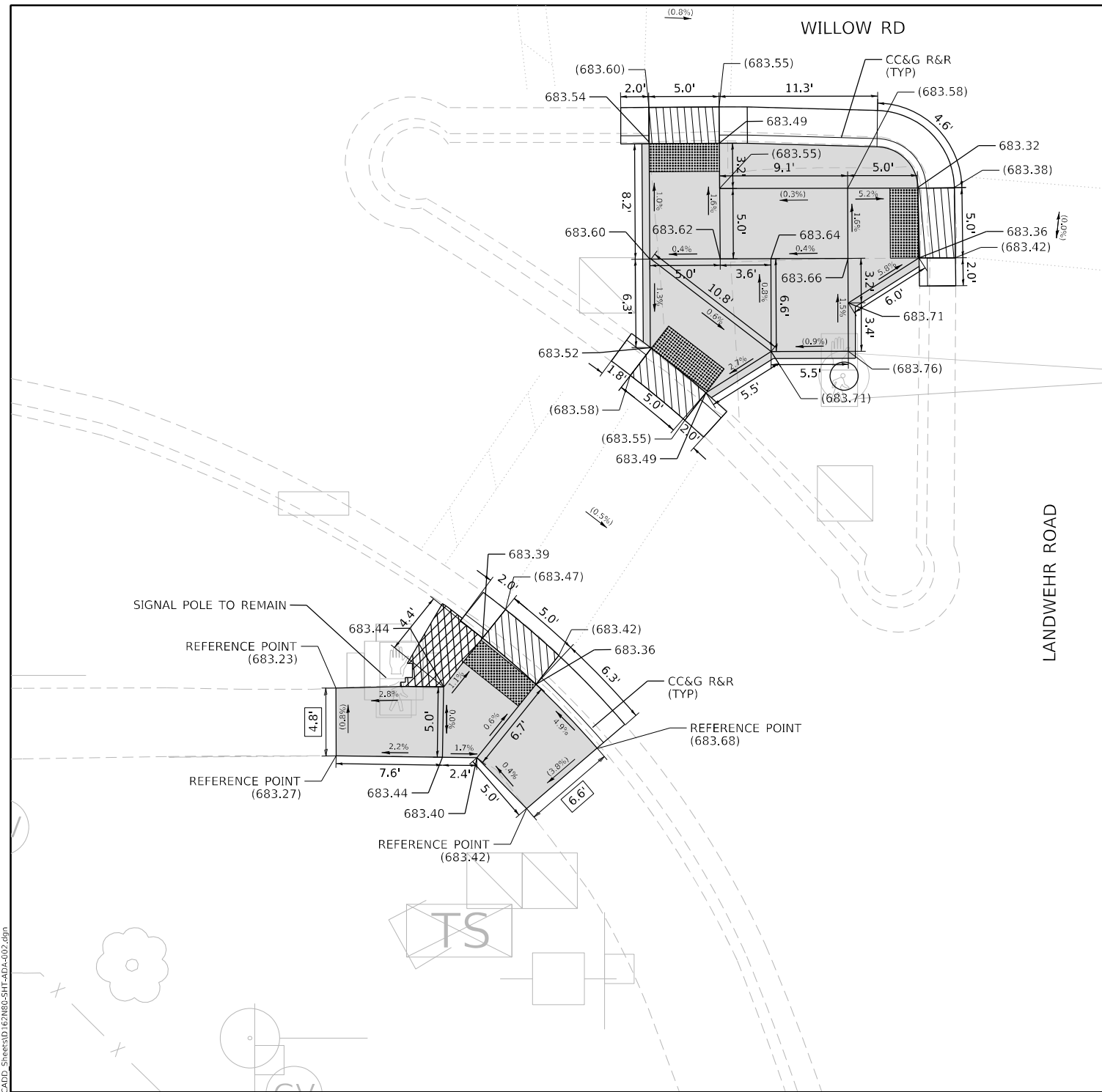
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 17
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

MODEL ADA
FILE NAME: P:\P\2020\4094-00 IDOT Vrbhor Phase 2 (ITB) 106 Item 16\W\0_26 62N80\DWG\CADD Streets\162\MS-SHT-ADA-002.dwg



REFERENCE BENCHMARK 1000-1905, ELEV. 684.00
 BENCHMARK: NW CORNER CONC. BASE OF TCB
 LOCATION: SW CORNER OF WILLOW RD AND LANDWEHR

LEGEND

xx.xx'	EXISTING LENGTH
()	EXISTING ELEVATION / SLOPE
	PROPOSED SIDEWALK
	DETECTABLE WARNINGS
	SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
	DEPRESSED CURB AND GUTTER
	PROPOSED SIDE CURB
	PAVEMENT REMOVAL



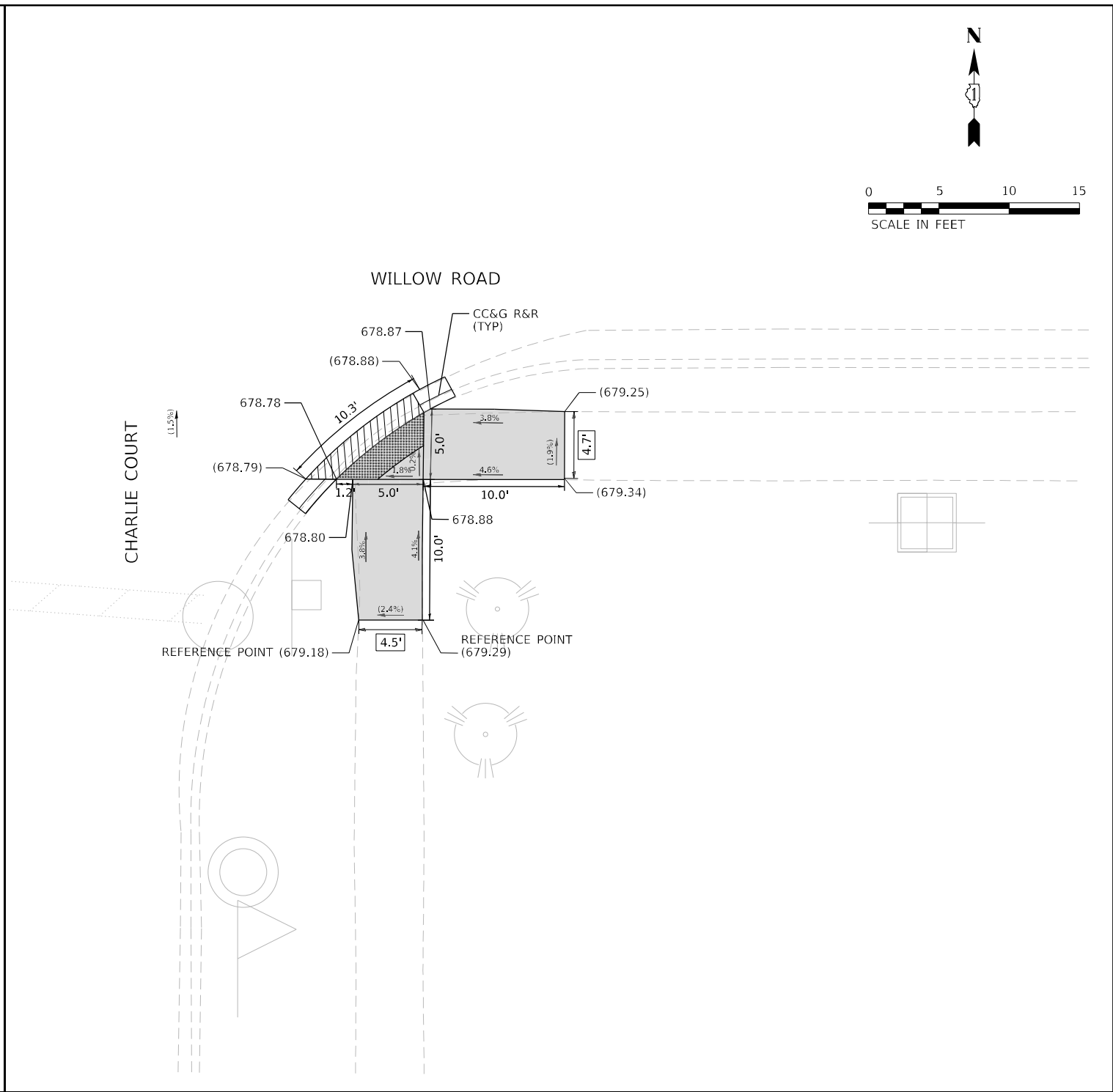
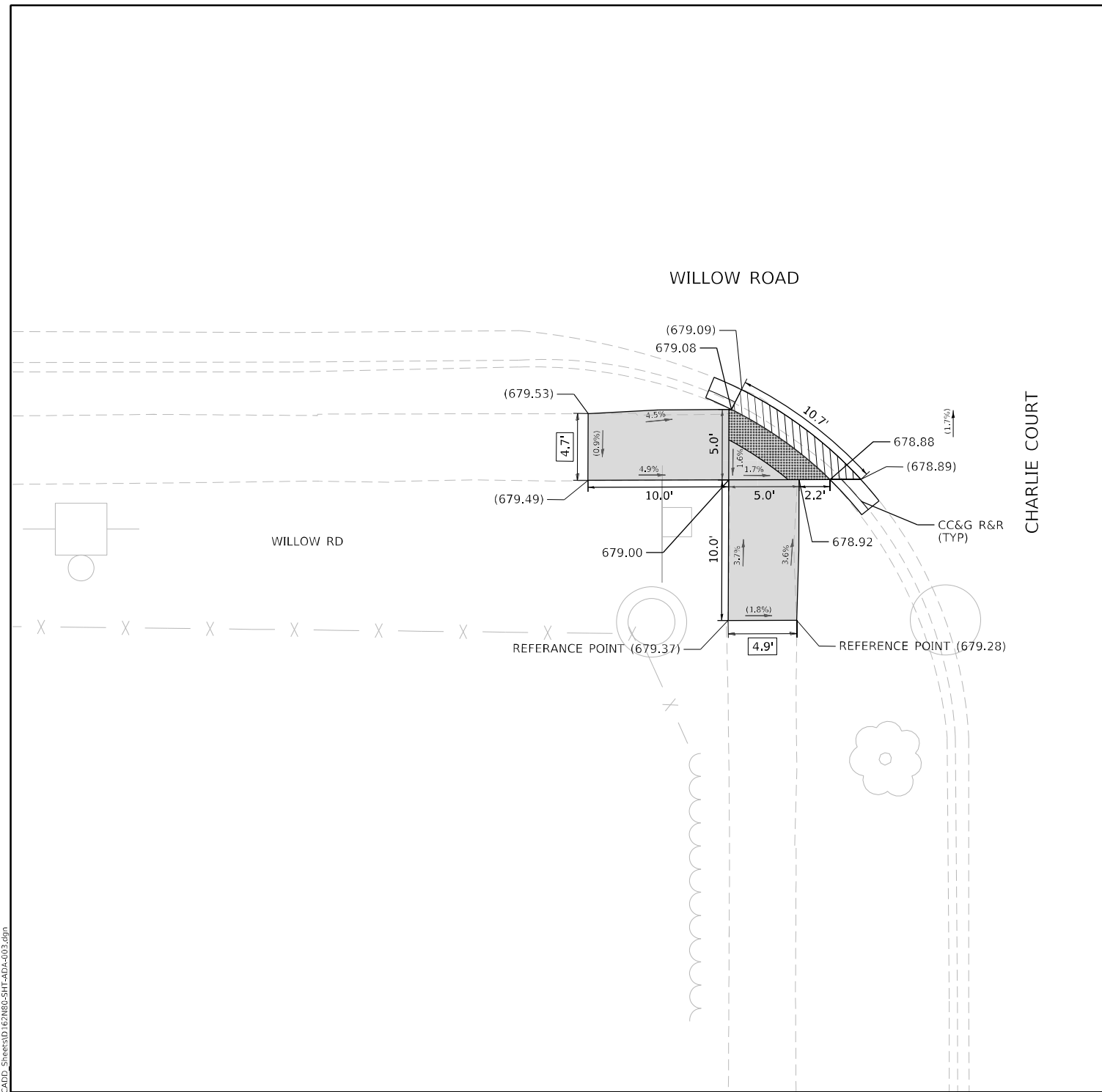
USER NAME = Alane	DESIGNED - BPP	REVISED -
PLOT SCALE = 10,0000' +/-	DRAWN - BPP	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 18
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

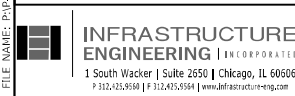


REFERENCE BENCHMARK 2000-2243, ELEV. 679.83
 BENCHMARK: NW BOLT OF F.H.
 LOCATION: N SIDE OF WILLOW RD ± 100' E OF CHARLIE CT.

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

MODEL ADA, FILE NAME: P:\P\2020\4094-00 IDOT Vnrhous Phase 2 (ITB) 106 Item 16\WV0_26 62N80\DC\CADD Streets\162\MS-SHT-ADA-003.dgn



USER NAME = Alane
 PLOT SCALE = 10,0000 * / in.

DESIGNED - BPP
 DRAWN - BPP
 CHECKED - ACL
 DATE - 12/08/2022

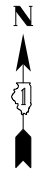
REVISED -
 REVISED -
 REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

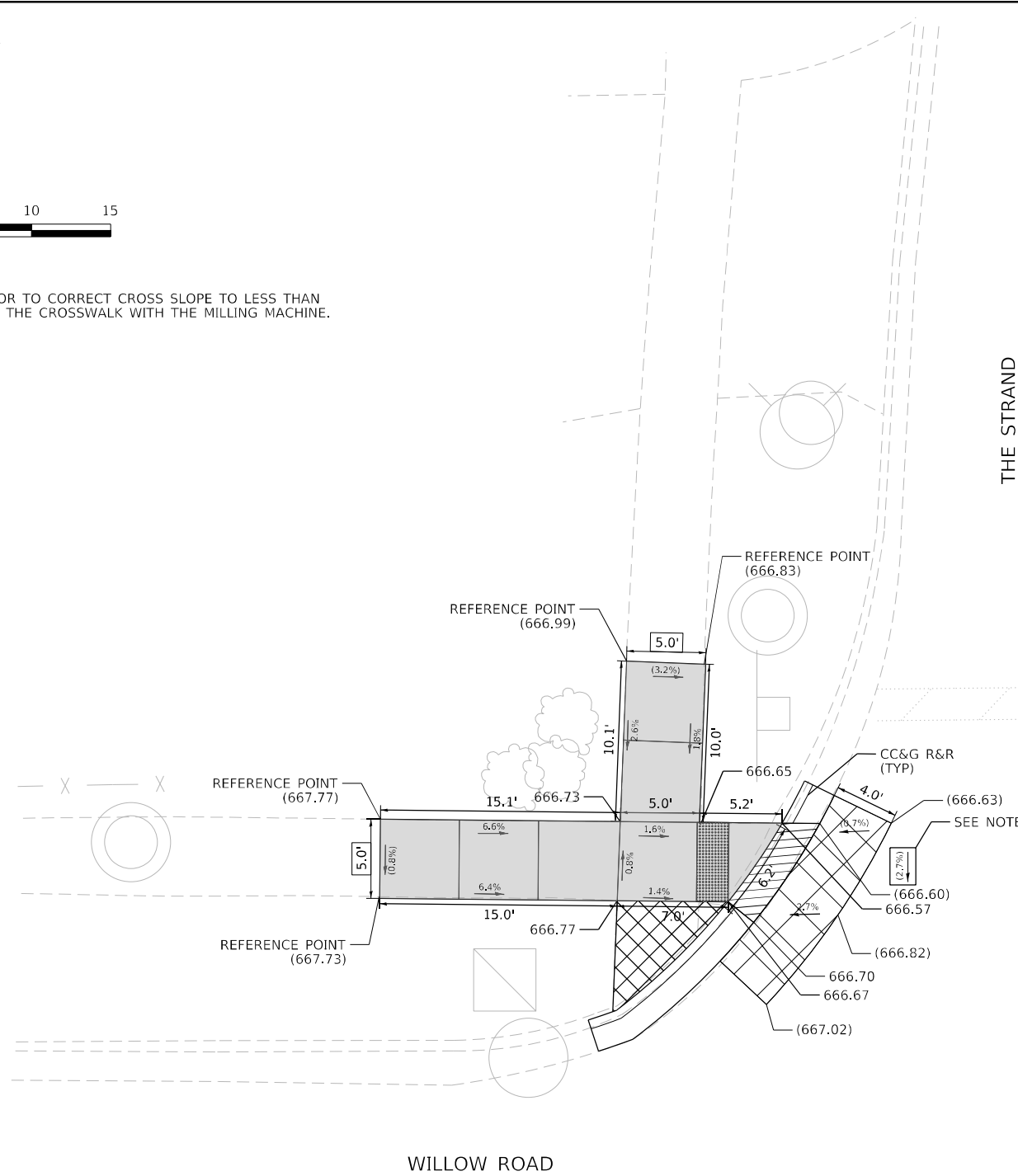
**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	19
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



NOTE: CONTRACTOR TO CORRECT CROSS SLOPE TO LESS THAN 2% WITHIN THE CROSSWALK WITH THE MILLING MACHINE.



THE STRAND

WILLOW ROAD

REFERENCE BENCHMARK 2900-3050, ELEV. 667.52
BENCHMARK: NW BOLT OF F.H.
LOCATION: NW CORNER OF WILLOW RD AND THE STRAND

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

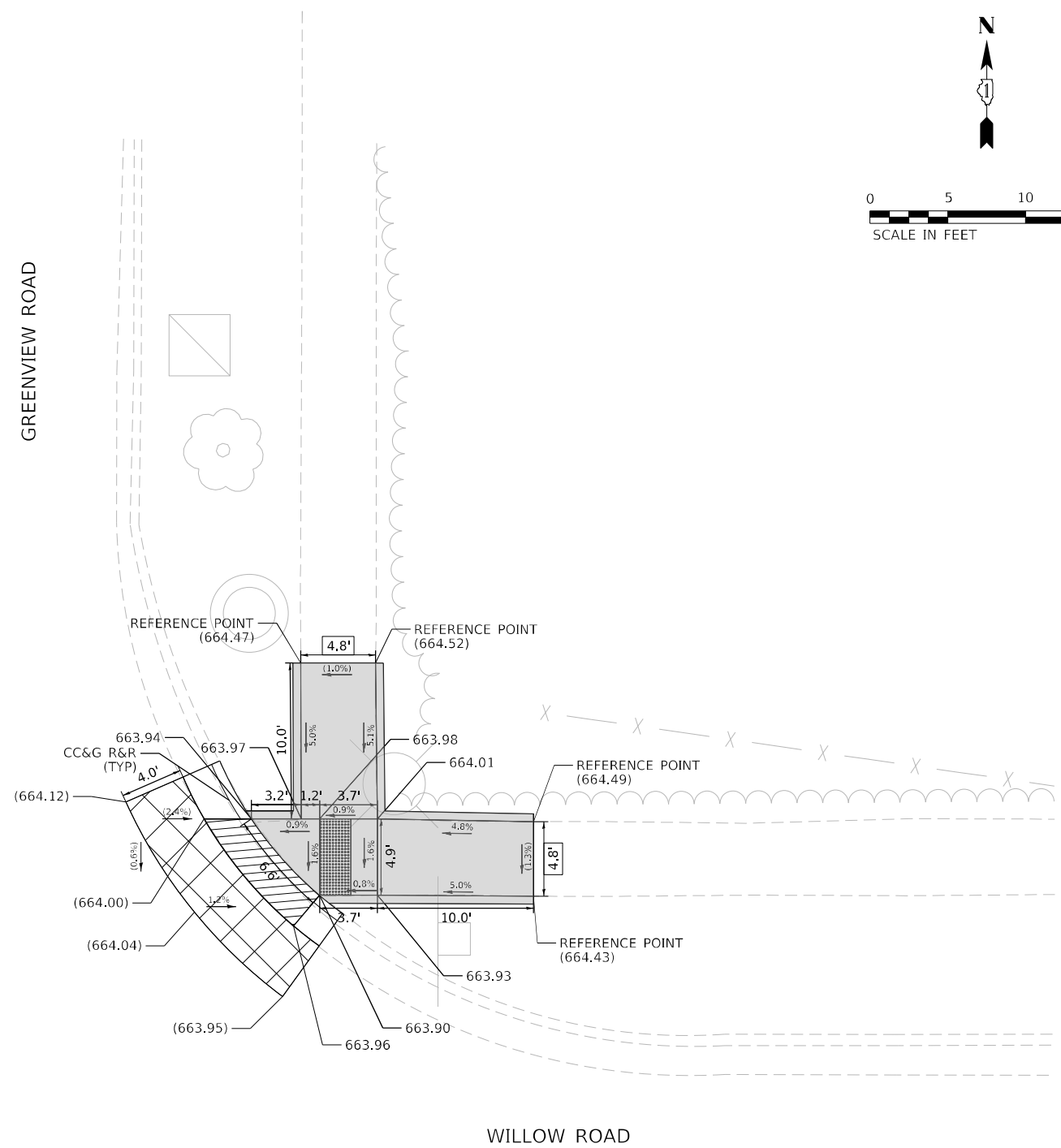
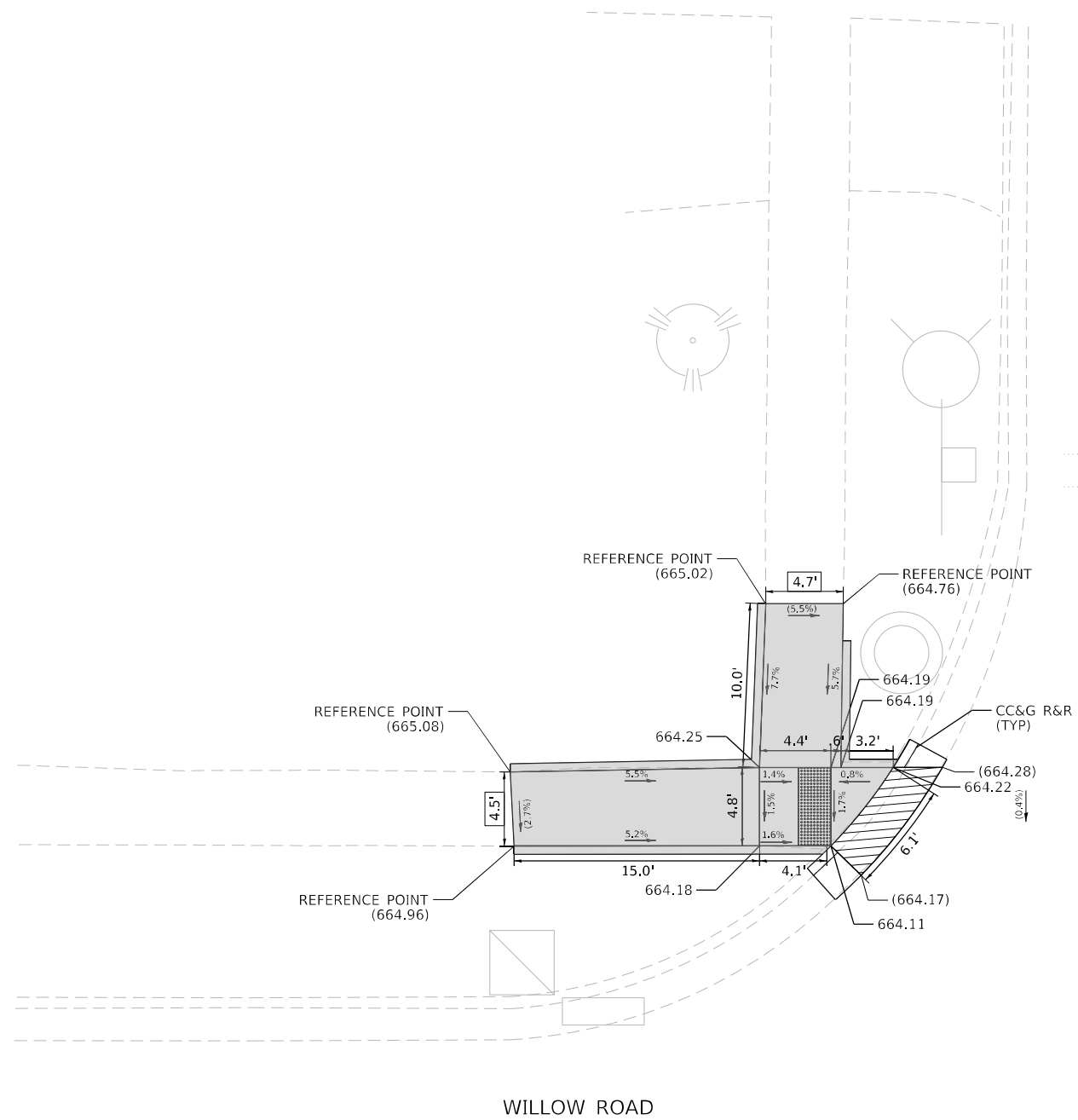
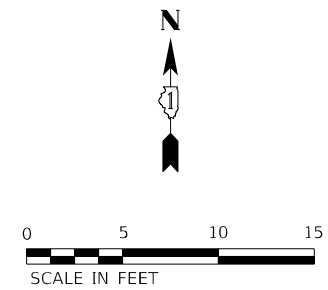
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	USER NAME = ALane	DESIGNED - MLD	REVISED -	
	DRAWN - MLD	CHECKED - ACL	REVISED -	
	PLOT SCALE = 10,0000' / in.	DATE - 12/08/2022		
	1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ADA RAMP DETAILS	
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)	
SCALE: 1" = 5'	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	20
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK 3100-3338, ELEV. 665.59
 BENCHMARK: NW BOLT OF F.H.
 LOCATION: NW CORNER OF WILLOW RD AND GREENVIEW RD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- [Solid Grey Box] PROPOSED SIDEWALK
- [Cross-hatched Box] DETECTABLE WARNINGS
- [Diagonal Hatched Box] SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- [Wavy Hatched Box] DEPRESSED CURB AND GUTTER
- [Dashed Line] PROPOSED SIDE CURB
- [Cross-hatched Box] PAVEMENT REMOVAL

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5'

STA. TO STA.

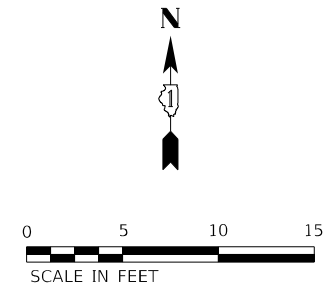
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	21
CONTRACT NO. 62N80				

ILLINOIS FED. AID PROJECT

MODEL: P:\d\p\h\p\...
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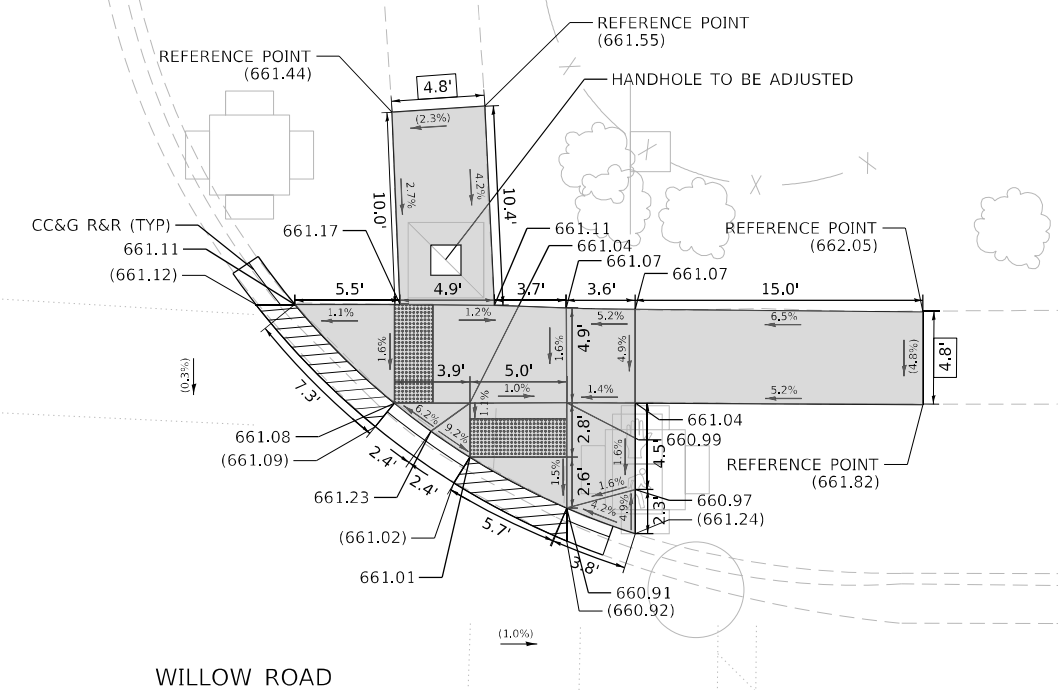
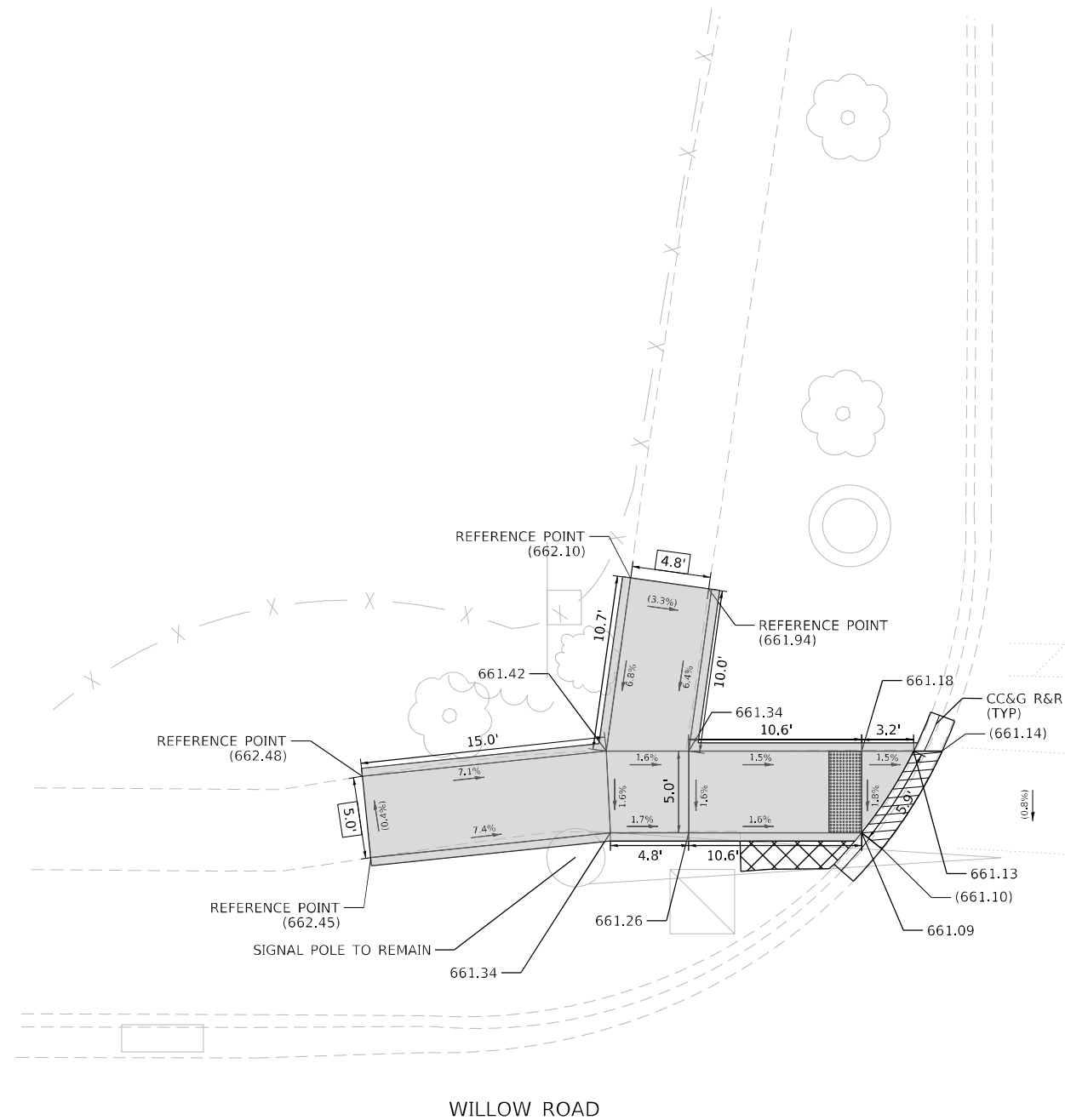
INFRASTRUCTURE ENGINEERING INCORPORATED
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P 312.425.9598 | F 312.425.9599 | www.infrastructure-eng.com

USER NAME = Alane	DESIGNED - MLD	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - MLD	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	



GREENWOOD ROAD

GREENWOOD ROAD



WILLOW ROAD

WILLOW ROAD

REFERENCE BENCHMARK 3400-3918, ELEV. 662.31
 BENCHMARK: NE CORNER OF CONC. BASE OF T.S. W/ARM
 LOCATION: NW CORNER OF WILLOW RD AND GREENWOOD RD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	22
CONTRACT NO. 62N80				

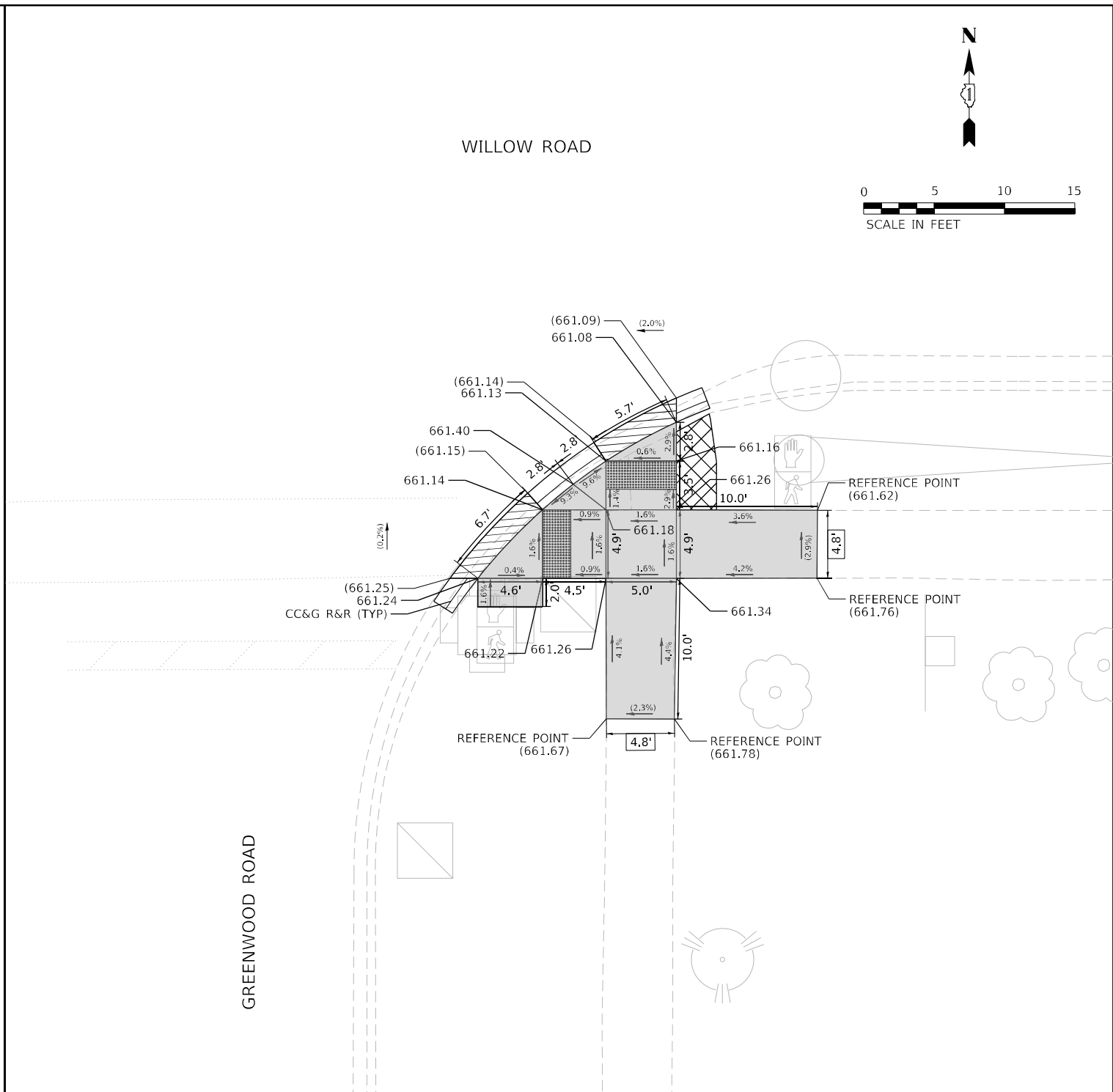
SCALE: 1" = 5' STA. TO STA.

ILLINOIS FED. AID PROJECT

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USER NAME = Alane	DESIGNED - MLD	REVISED -
PLOT SCALE = 10,0000 * / in.	DRAWN - MLD	REVISED -
DATE - 12/08/2022	CHECKED - ACL	REVISED -



REFERENCE BENCHMARK 3400-3918, ELEV. 662.31
 BENCHMARK: NE CORNER OF CONC. BASE OF T.S. W/ARM
 LOCATION: NW CORNER OF WILLOW RD AND GREENWOOD RD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

MODEL: P:\dtd\h\... FILE NAME: P:\2020\4094-00 IDOT\Various Phase 2\ITB\106 Item: 16\WV0_26 62N80\DWG\CADD_Sheets\162\MS-SHT-ADA-007.dgn



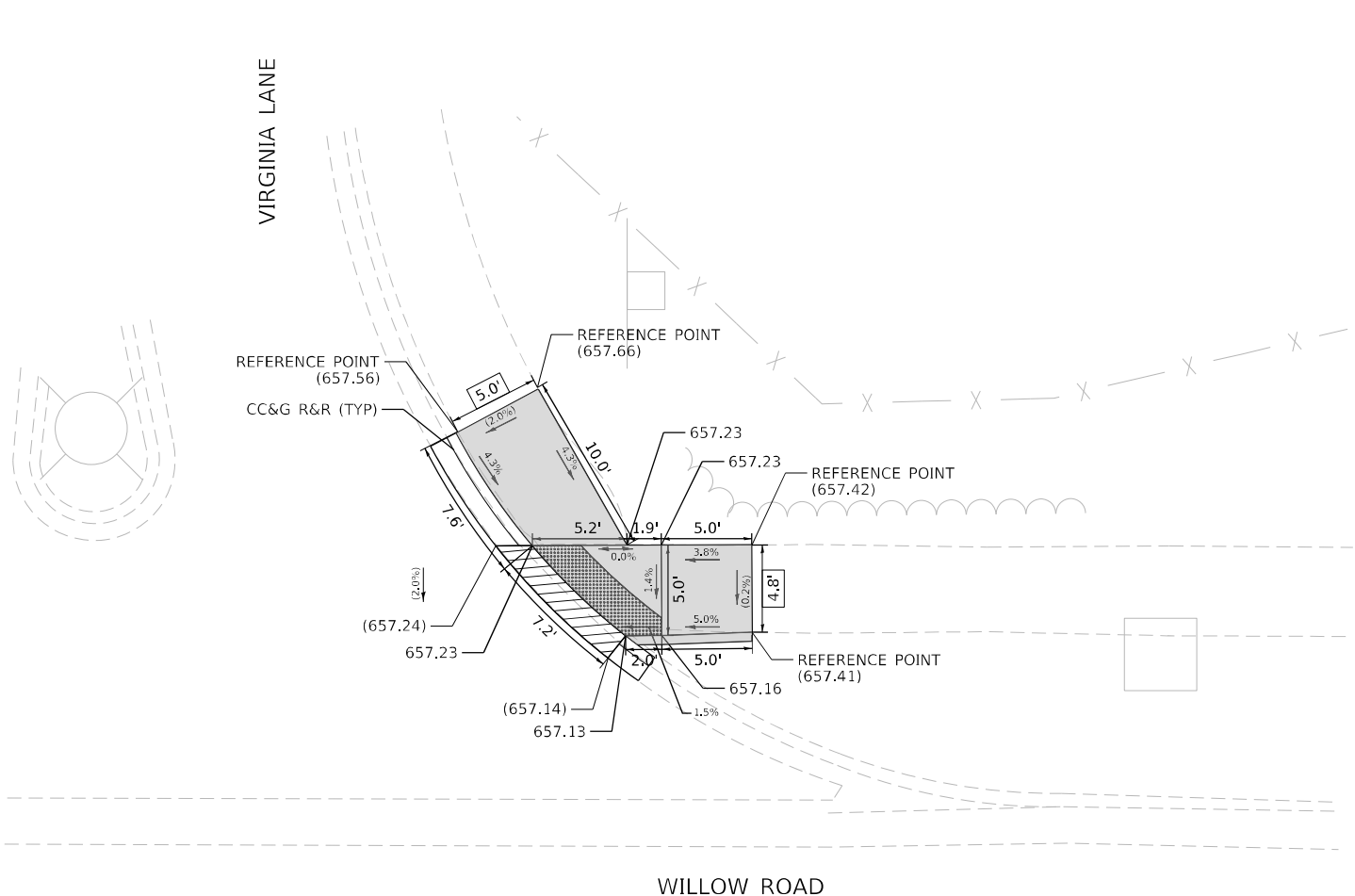
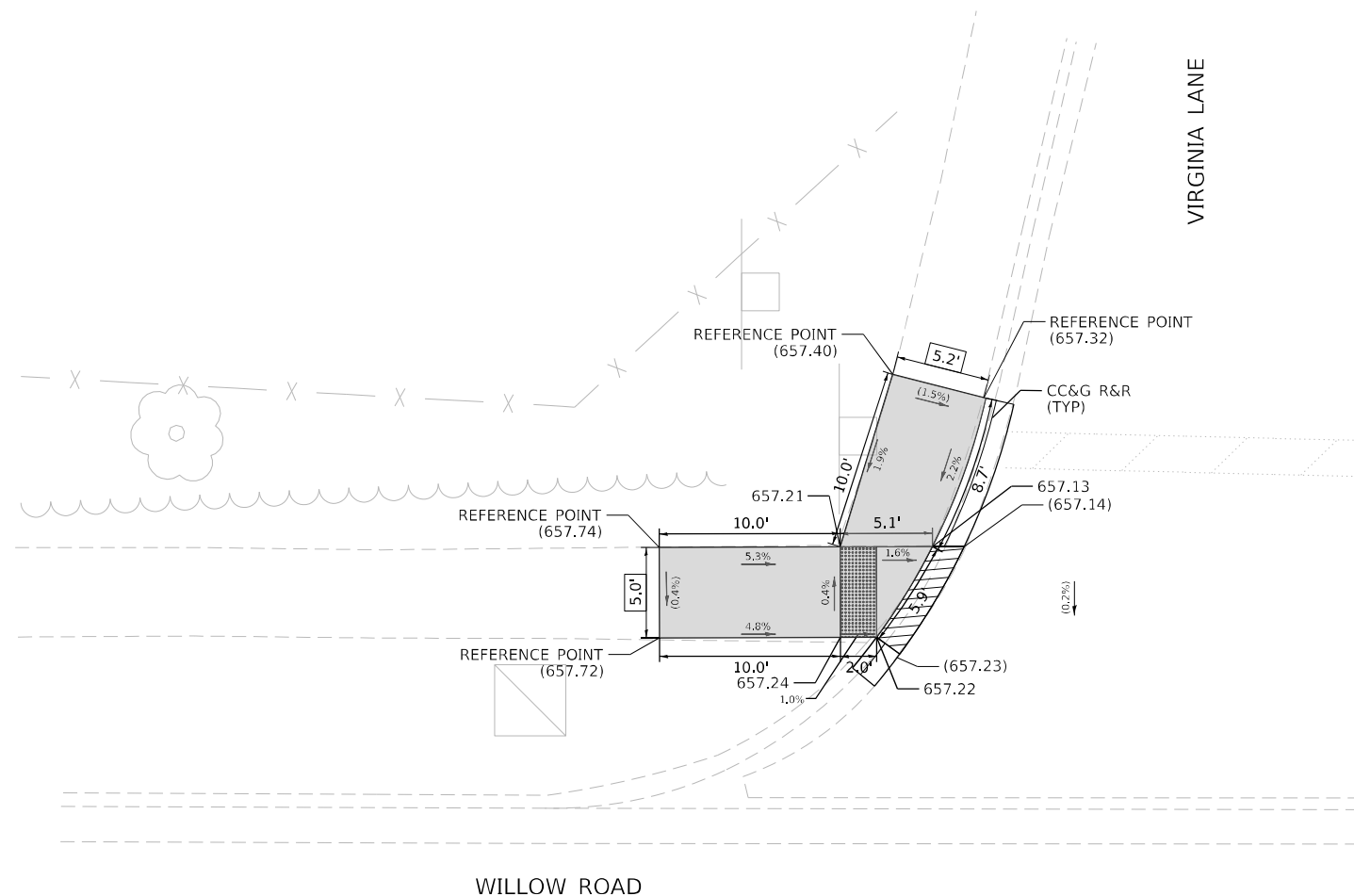
USER NAME = ALane	DESIGNED - MLD	REVISED -
DRAWN - MLD	REVISIONS -	
PLOT SCALE = 10,0000 * / in.	CHECKED - ACL	REVISED -
DATE - 12/08/2022		

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 23
ILLINOIS				FED. AID PROJECT
CONTRACT NO. 62N80				



REFERENCE BENCHMARK 4000-4196, ELEV. 658.31
 BENCHMARK: S CONC. BASE OF L.P. IN MEDIAN
 LOCATION: N CL OF VIRGINIA LN

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- [Solid Grey Box] PROPOSED SIDEWALK
- [Cross-hatched Box] DETECTABLE WARNINGS
- [Diagonal Hatched Box] SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- [Horizontal Hatched Box] DEPRESSED CURB AND GUTTER
- [Dashed Line] PROPOSED SIDE CURB
- [Cross-hatched Box] PAVEMENT REMOVAL

MODEL: P:\d\1\11...
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 ENGINEERING INCORPORATED
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 P 312.425.9598 | F 312.425.9598 | www.infrastructure-eng.com

USER NAME = Alane
 PLOT SCALE = 10,0000' +/- in.

DESIGNED -	MLD	REVISED -	
DRAWN -	MLD	REVISED -	
CHECKED -	ACL	REVISED -	
DATE -	12/08/2022		

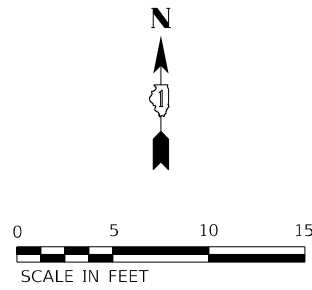
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

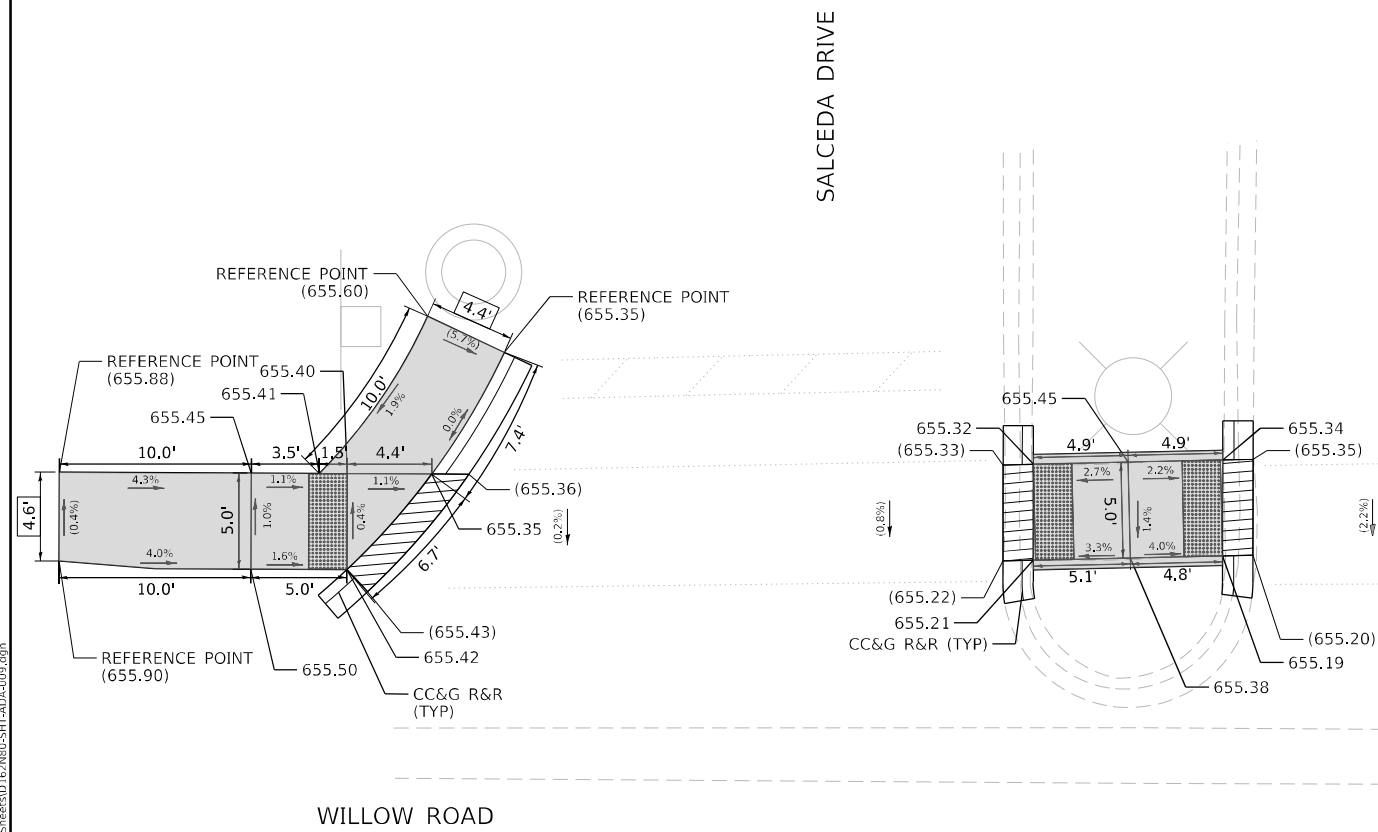
SCALE: 1" = 5'

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	24
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



NOTE: CROSSWALK IS OUTSIDE THE RESURFACING LIMITS



REFERENCE BENCHMARK 4200-4355, ELEV. 655.50
 BENCHMARK: S RIM OF STORM MH
 LOCATION: NW CORNER OF WILLOW RD AND SALCEDA DR

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

MODEL: P:\d\inf\11111111.dwg
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 PROJECT: 2020-04-04-00 IDOT Various Phase 2 (ITB) 106 Item: 161110_26 62N80(D)CICADID StreetsID1621885-SHT-ADA-009.dwg

INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9598 www.infrastructure-eng.com	USER NAME = ALane	DESIGNED - MLD	REVISED -
	PLOT SCALE = 10,0000 * / in.	DRAWN - MLD	REVISED -
		CHECKED - ACL	REVISED -
		DATE - 12/08/2022	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

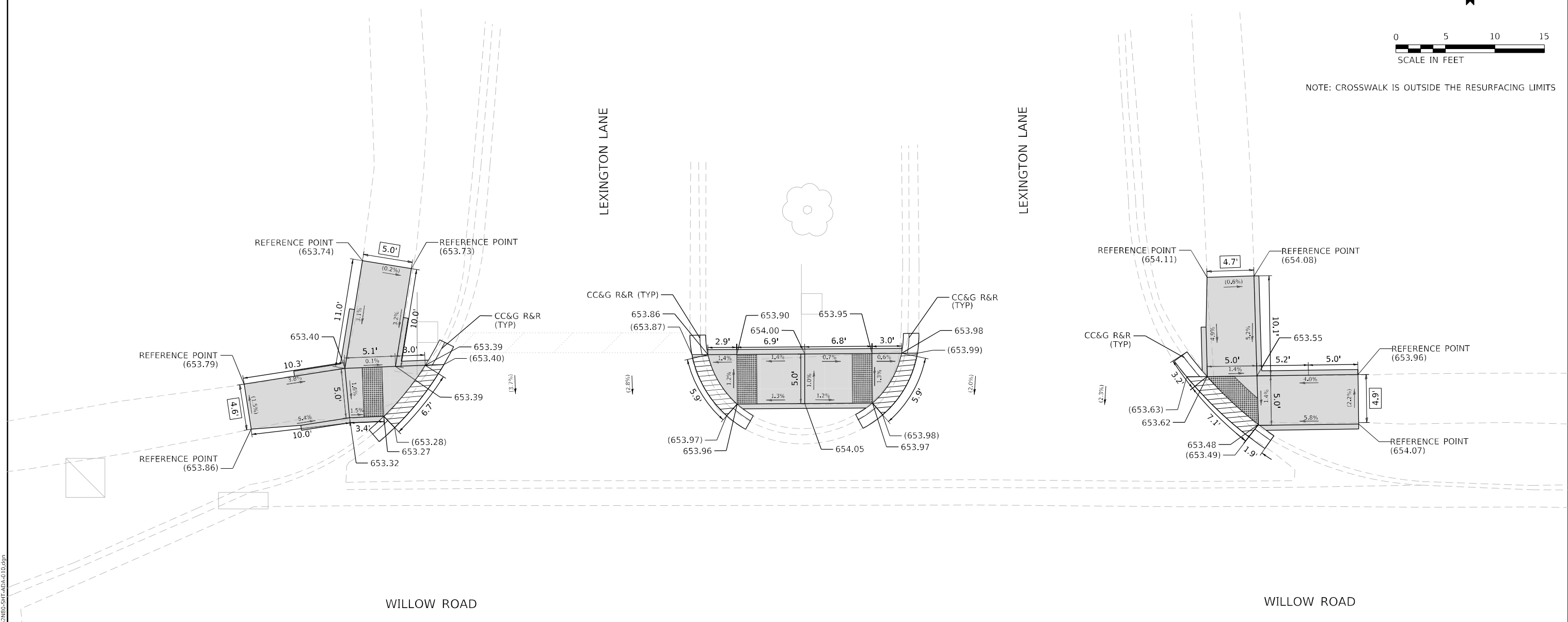
SCALE: 1" = 5'

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62N80	



NOTE: CROSSWALK IS OUTSIDE THE RESURFACING LIMITS



LEGEND

xx.xx'	EXISTING LENGTH
()	EXISTING ELEVATION / SLOPE
[Solid Grey]	PROPOSED SIDEWALK
[Grid Pattern]	DETECTABLE WARNINGS
[Cross-hatch Pattern]	SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
[Diagonal Lines]	DEPRESSED CURB AND GUTTER
[Single Line]	PROPOSED SIDE CURB
[X Pattern]	PAVEMENT REMOVAL

MODEL: ADA
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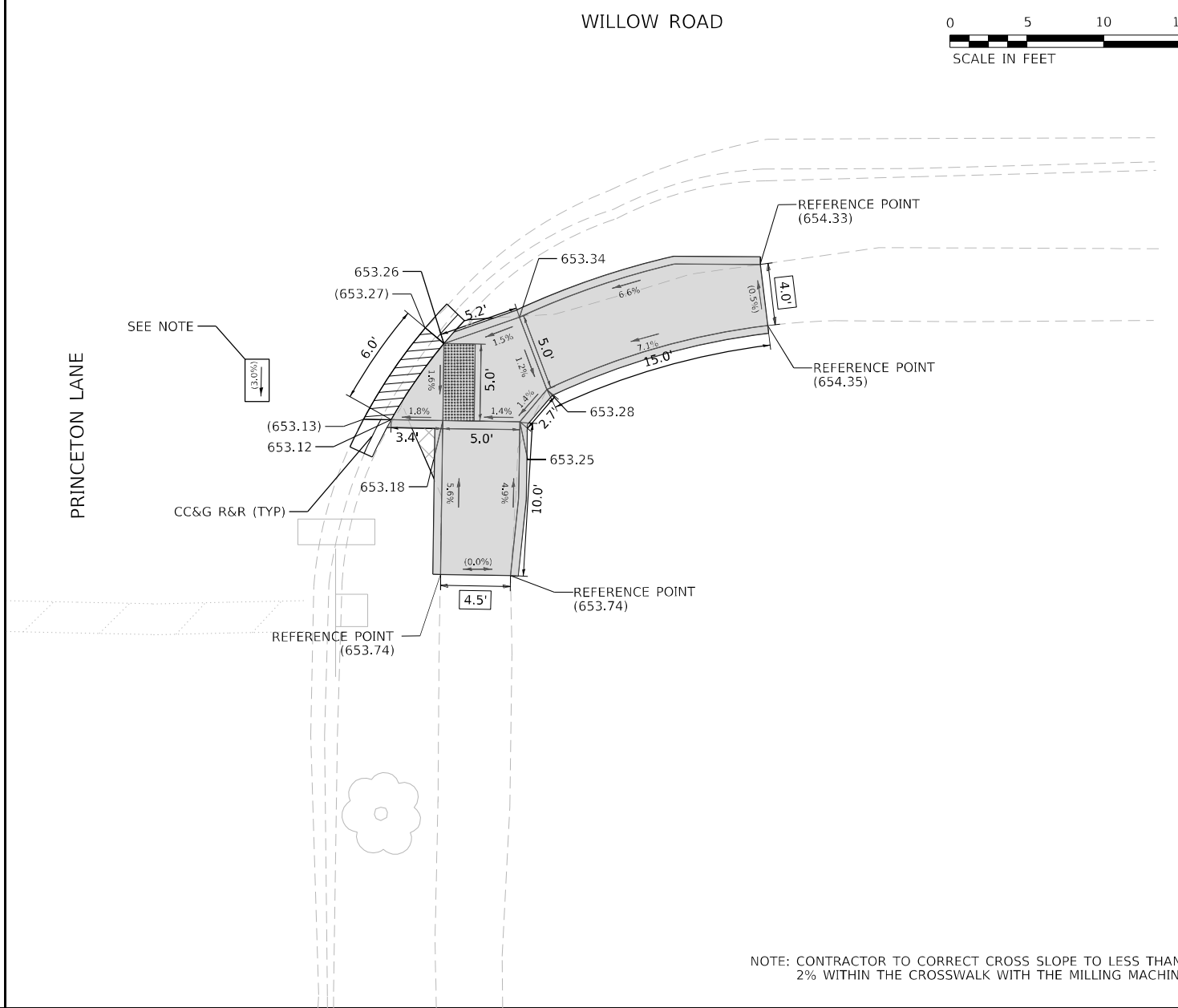
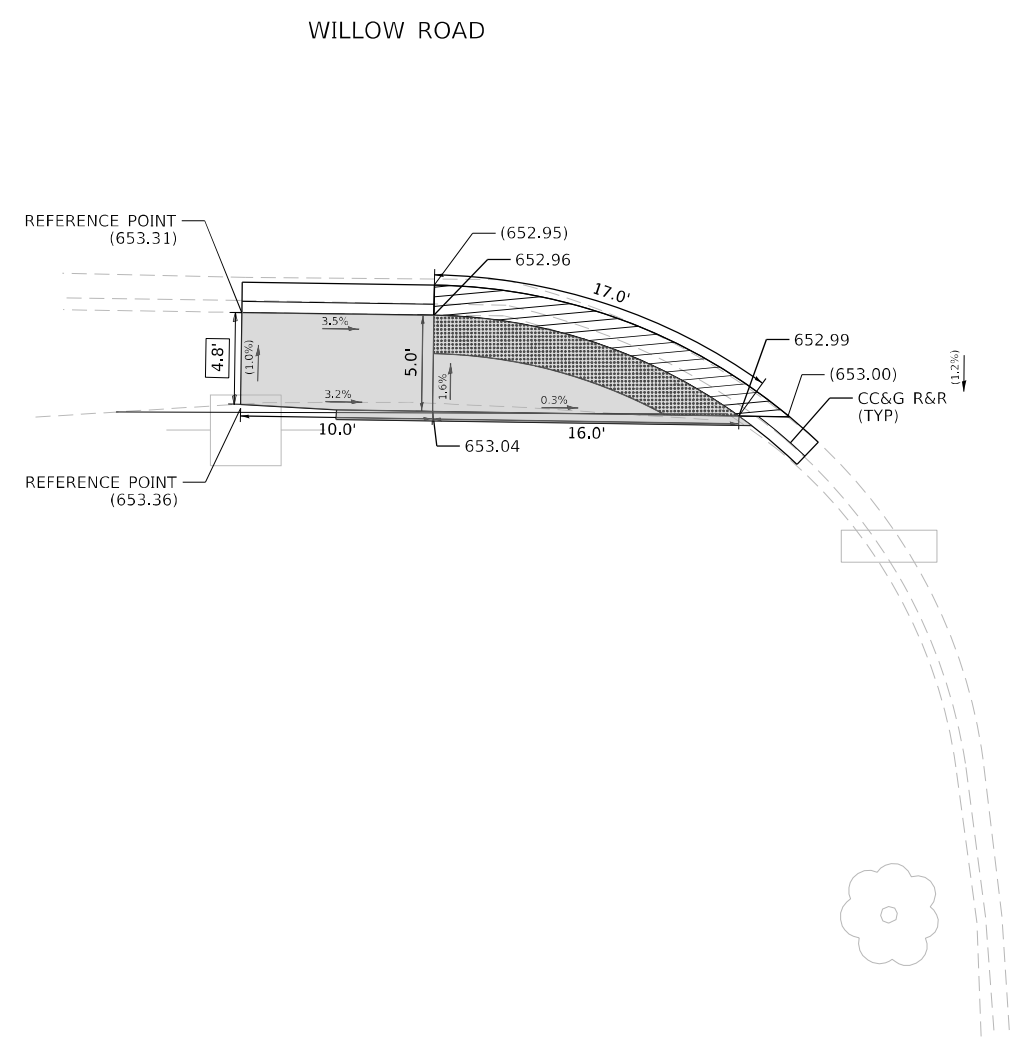
USER NAME = Alane	DESIGNED - MLD	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - MLD	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 26
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



NOTE: CONTRACTOR TO CORRECT CROSS SLOPE TO LESS THAN 2% WITHIN THE CROSSWALK WITH THE MILLING MACHINE.

REFERENCE BENCHMARK 4850, ELEV. 655.116
 BENCHMARK: W SIDE OF CONC. BASE FOR FLAG POLE
 LOCATION: SW CORNER OF WILLOW RD AND PRINCETON LN

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	27
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

USER NAME = Alane	DESIGNED - MLD	REVISED -
DRAWN - MLD	REVISIONS -	
PLOT SCALE = 10,0000 * / in.	CHECKED - ACL	REVISIONS -
	DATE - 12/08/2022	

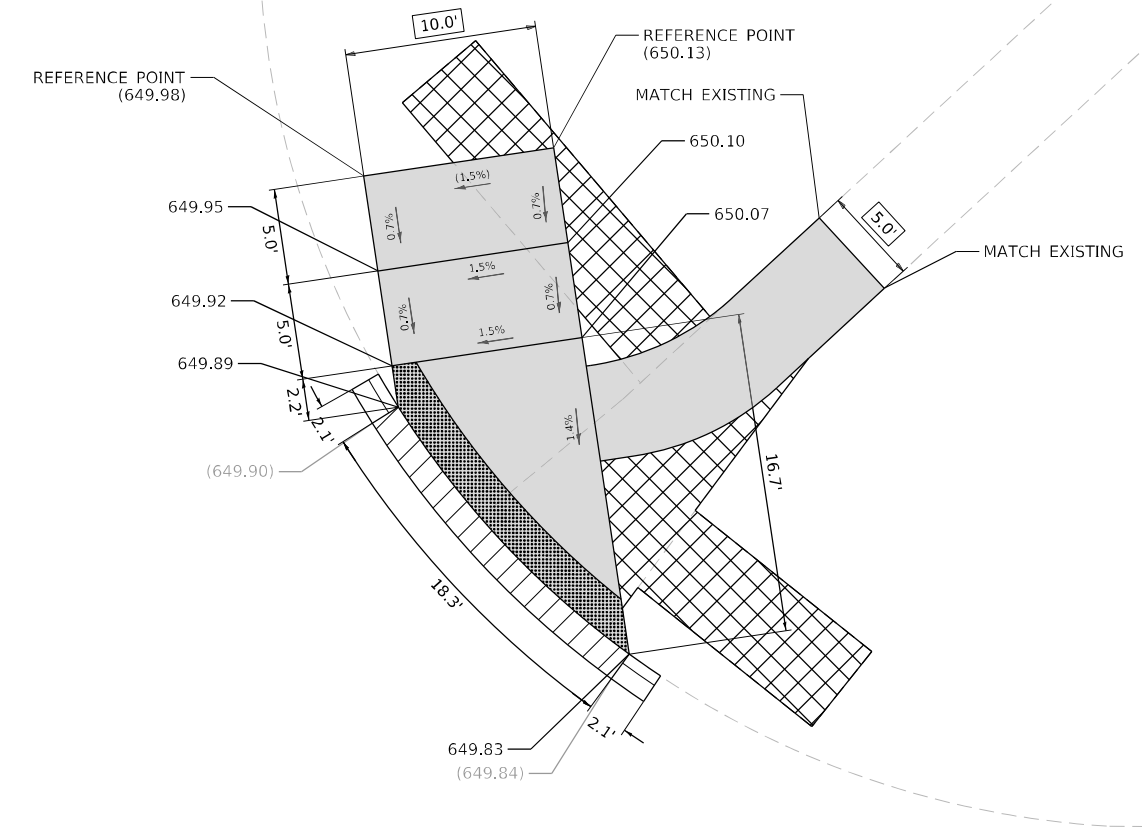
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SHERMER ROAD

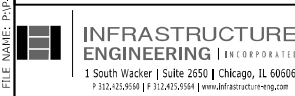
NOTE: CORNER DESIGN FROM THE VILLAGE OF NORTHBROOK. NO SURVEY RECEIVED.



WILLOW ROAD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL



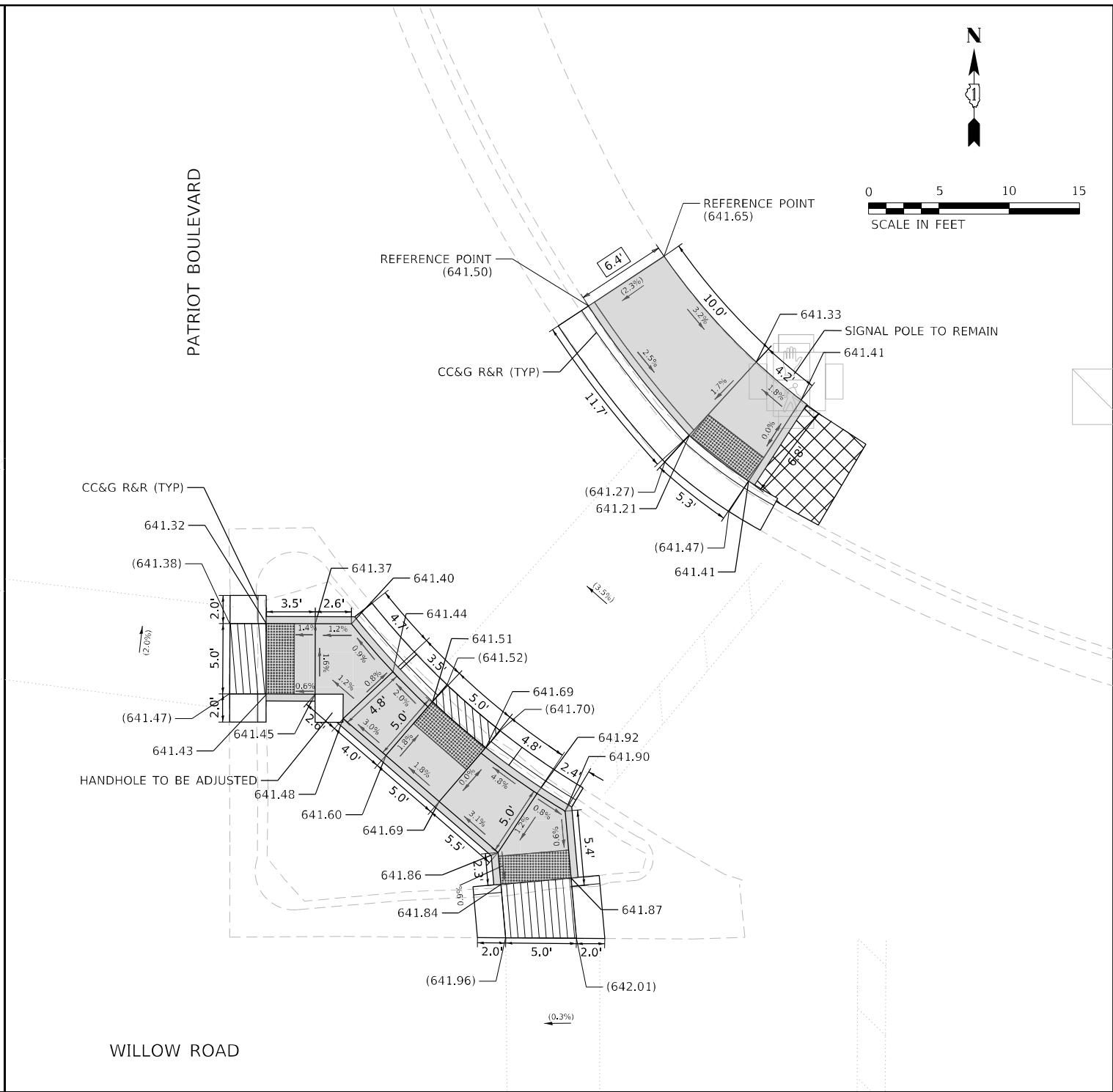
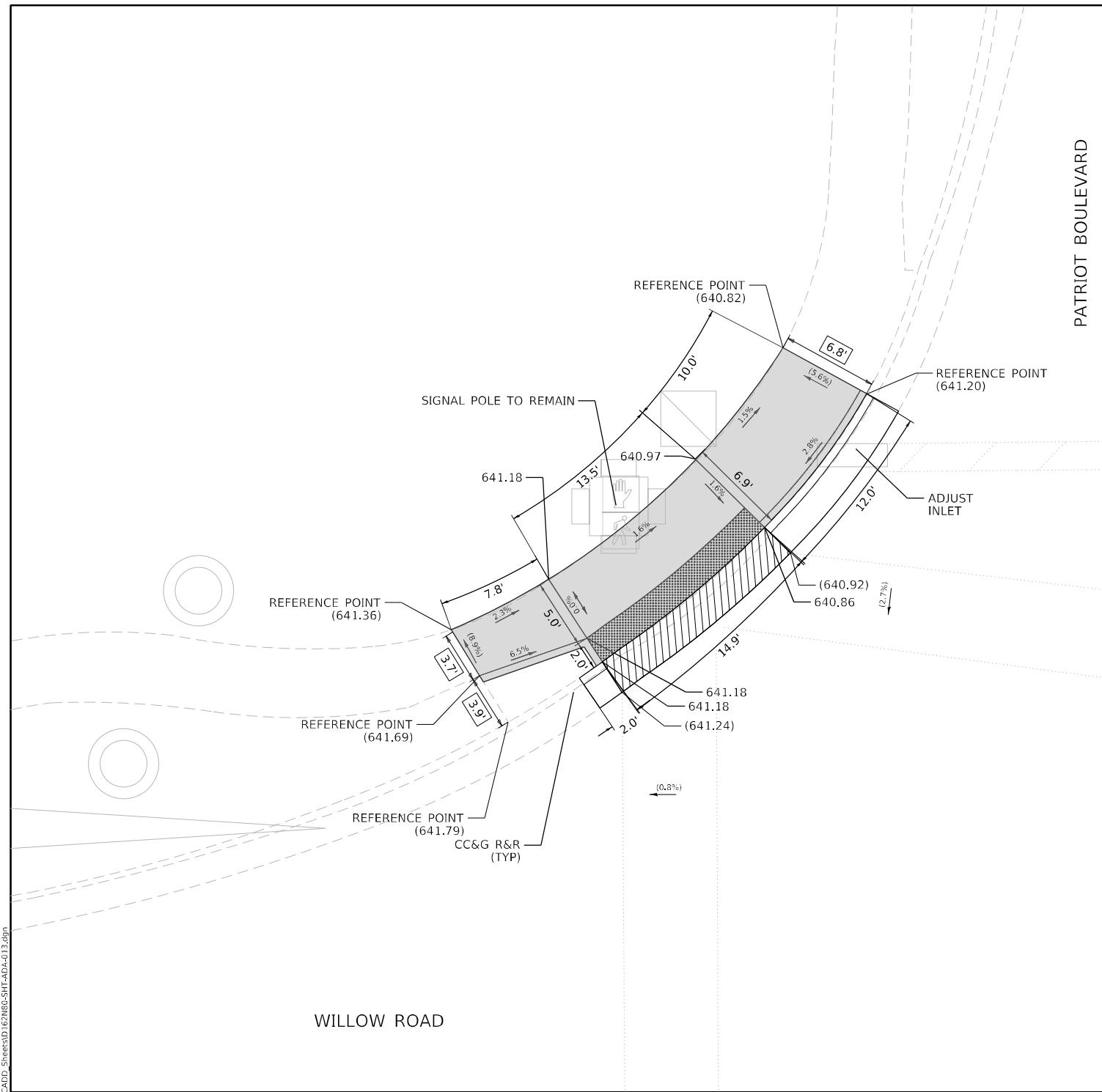
USER NAME = Alane	DESIGNED - MLD	REVISED -
DRAWN - MLD	CHECKED - ACL	REVISED -
PLOT SCALE = 10,0000 * / in.	DATE - 12/08/2022	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 28
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK 5191, ELEV. 641.058
 BENCHMARK: SE CORNER OF DOUBLE H.H.
 LOCATION: SE CORNER OF WILLOW RD AND PATRIOT BLVD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- [Solid Grey] PROPOSED SIDEWALK
- [Grid Pattern] DETECTABLE WARNINGS
- [Cross-hatch Pattern] SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- [Diagonal Lines] DEPRESSED CURB AND GUTTER
- [Single Line] PROPOSED SIDE CURB
- [X Pattern] PAVEMENT REMOVAL

MODEL: ADA
 FILE NAME: P:\P\2020\4094-00 IDOT Urban Phase 2 (TTL) 106 Item 16\W\0_26 62N80\DC\CADD Streets\162\MS-SHT-ADA-013.dwg



USER NAME = Alane	DESIGNED - BPP	REVISED -
PLOT SCALE = 10,0000' / in.	DRAWN - BPP	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

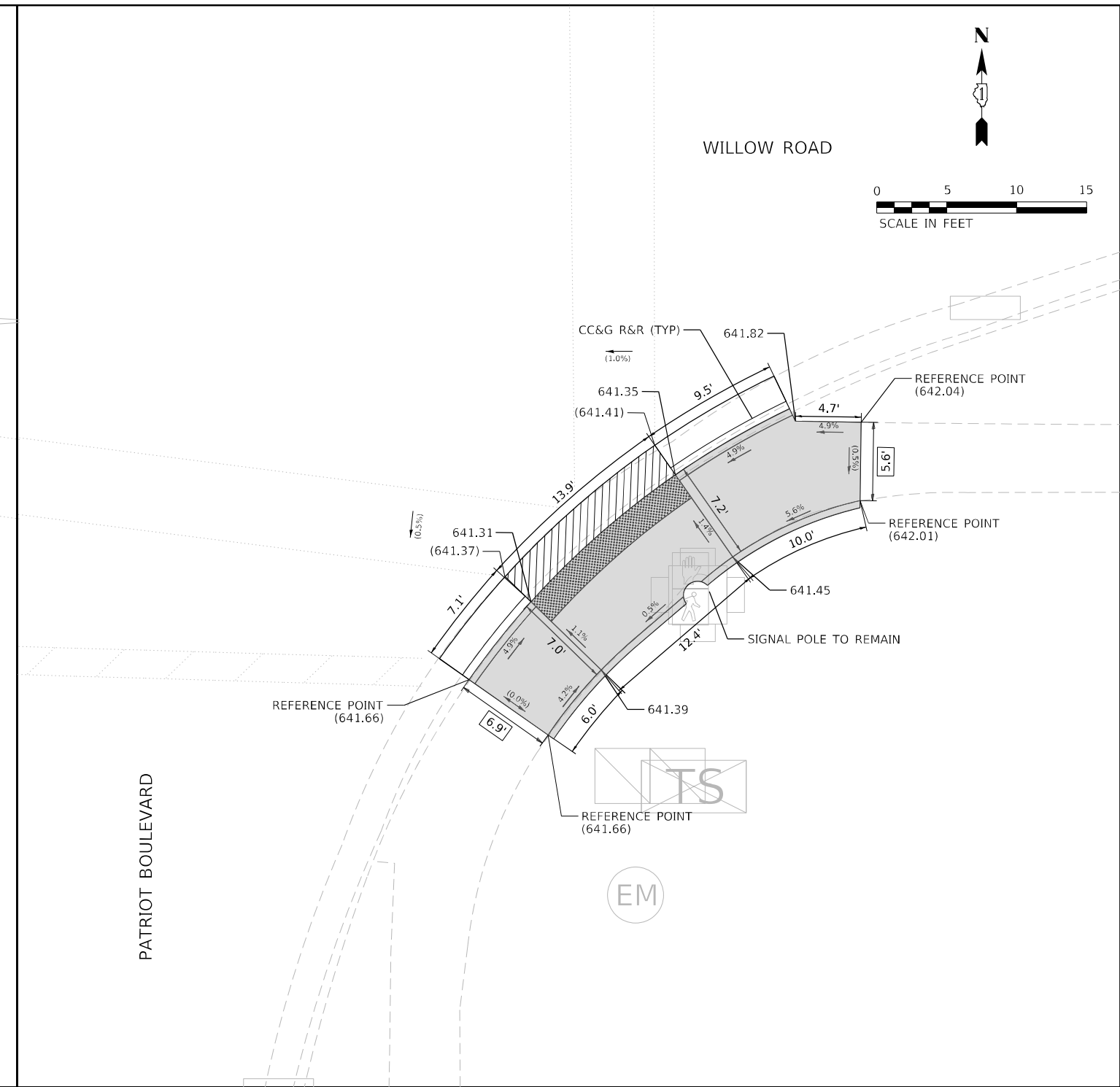
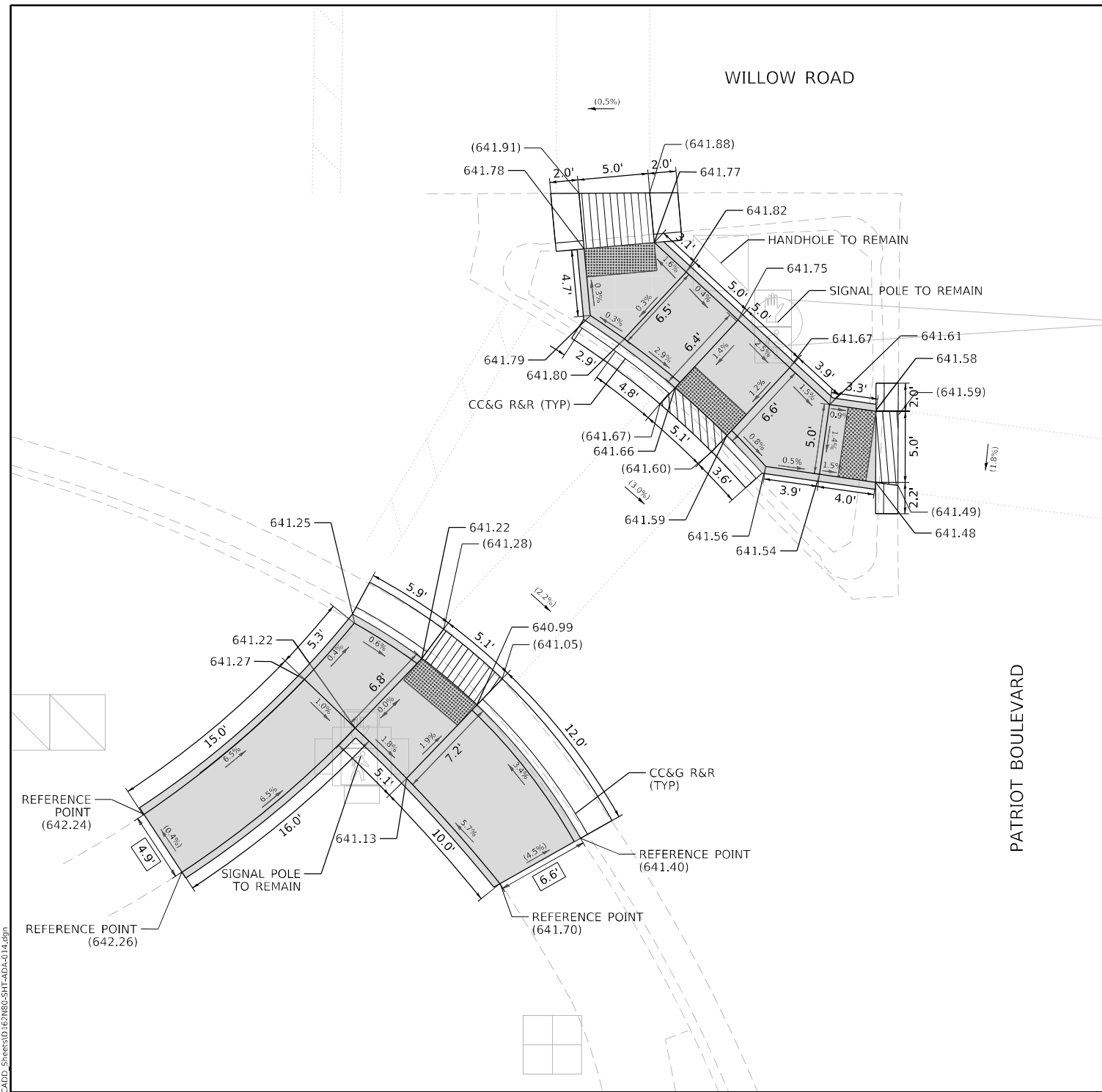
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5'

STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 29
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK 5313, ELEV. 641.19
 BENCHMARK: SE CORNER OF DOUBLE H.H.
 LOCATION: SE CORNER OF WILLOW RD AND PATRIOT BLVD

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

USER NAME = Alane	DESIGNED - BPP	REVISED -
PLOT SCALE = 10,0000 * / in.	DRAWN - BPP	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

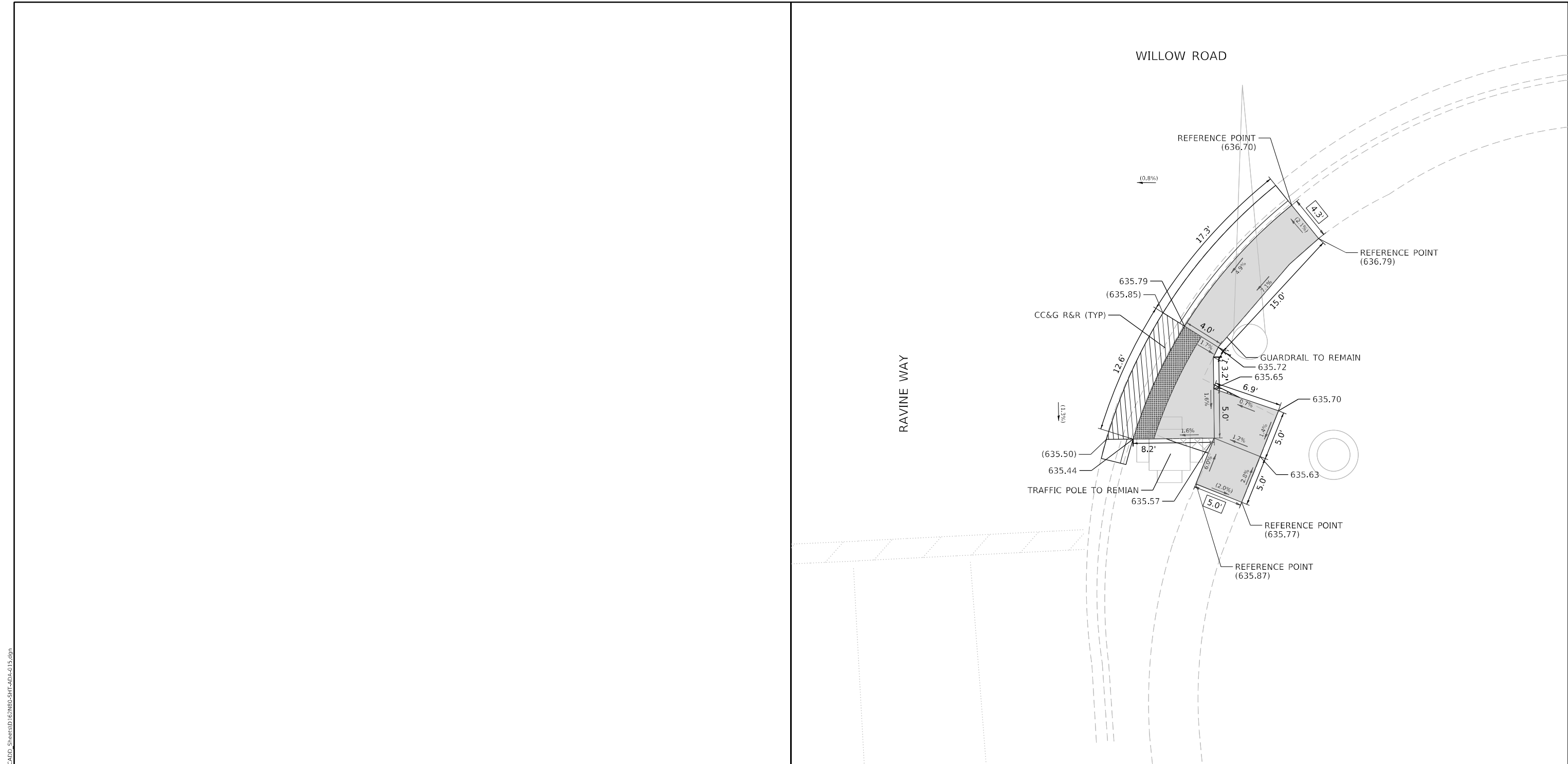
**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	30
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK 10102, ELEV. 634.293
 BENCHMARK: NW BOTTOM BOLT OF F.H.
 LOCATION: SW CORNER OF WILLOW RD AND RAVINE WAY

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- [Solid Grey Box] PROPOSED SIDEWALK
- [Grid Pattern Box] DETECTABLE WARNINGS
- [Cross-hatch Pattern Box] SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- [Diagonal Line Pattern Box] DEPRESSED CURB AND GUTTER
- [Single Line Box] PROPOSED SIDE CURB
- [Cross-hatch Pattern Box] PAVEMENT REMOVAL

	USER NAME = ALane	DESIGNED - BPP	REVISED -
	PLOT SCALE = 10,0000 * / in.	DRAWN - BPP	REVISED -
		CHECKED - ACL	REVISED -
		DATE - 12/08/2022	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

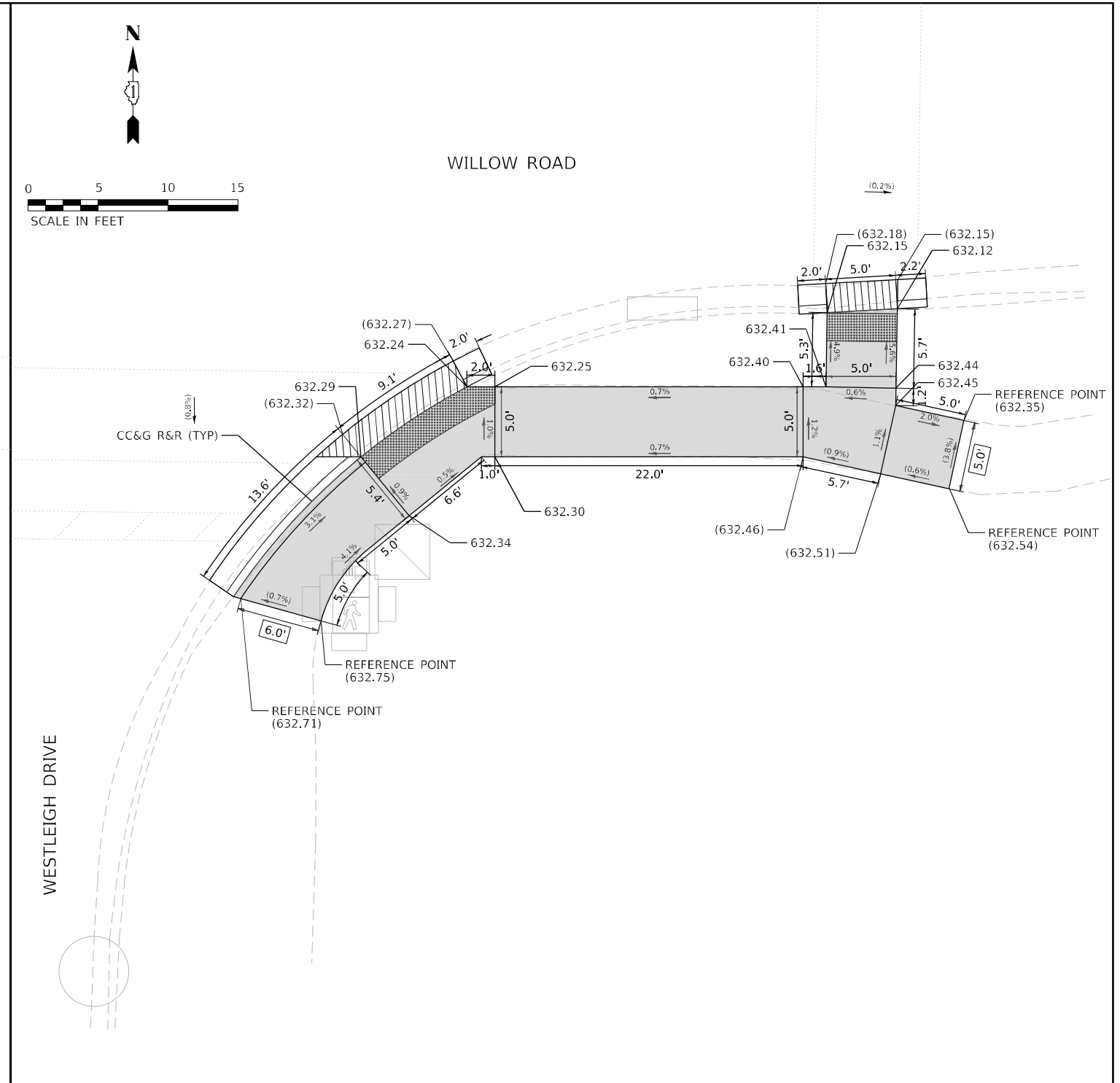
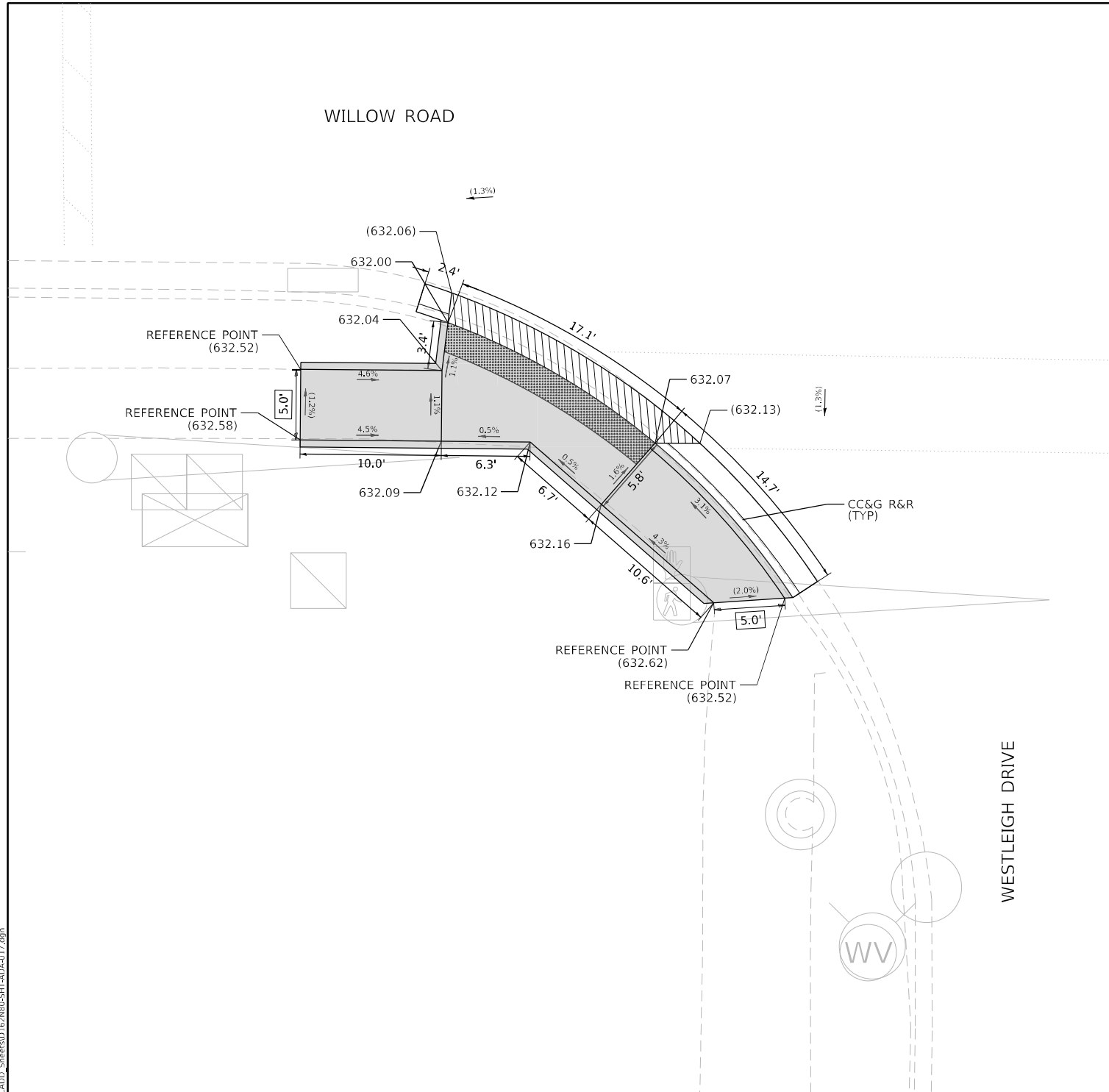
ADA RAMP DETAILS
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)

SCALE: 1" = 5'

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	31
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

MODEL: ADA
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REFERENCE BENCHMARK 6064, ELEV. 633.17
BENCHMARK: NW BOLT OF F.H.
LOCATION: NW CORNER OF WILLOW RD AND FOUNDERS DR

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

<p>INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.475.9594 www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - MLD	REVISED -
	PLOT SCALE = 10,0000' / in.	DRAWN - MLD	REVISED -
		CHECKED - ACL	REVISED -
		DATE - 12/08/2022	

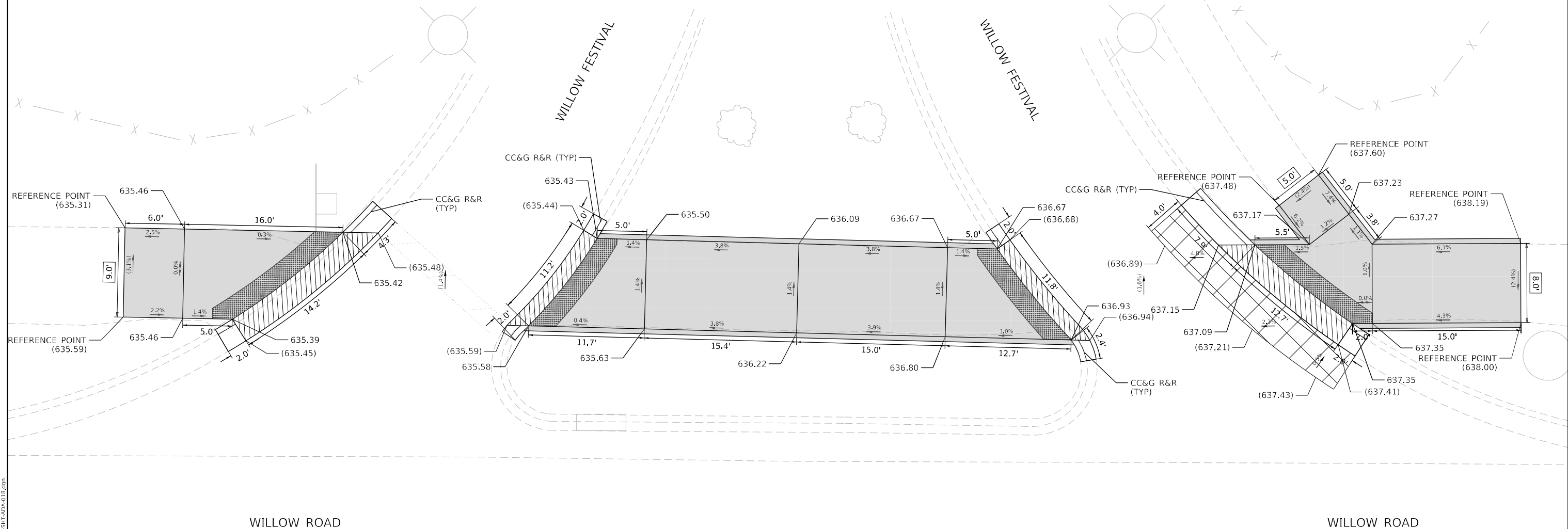
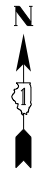
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5'

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	33
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



WILLOW ROAD

WILLOW ROAD

REFERENCE BENCHMARK 6100-6338, ELEV. 635.96
 BENCHMARK: S BASE OF L.P.
 LOCATION: NW CORNER OF WILLOW RD AND FESTIVAL ST

LEGEND

- xx.xx' EXISTING LENGTH
- () EXISTING ELEVATION / SLOPE
- PROPOSED SIDEWALK
- DETECTABLE WARNINGS
- SIDEWALK REMOVAL REPLACE WITH TOPSOIL AND SOD
- DEPRESSED CURB AND GUTTER
- PROPOSED SIDE CURB
- PAVEMENT REMOVAL

MODEL: ADA
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USER NAME = Alane	DESIGNED - MLD	REVISED -
DRAWN - MLD	REVISIONS -	
PLOT SCALE = 10,0000' / in.	CHECKED - ACL	REVISIONS -
DATE - 12/08/2022		

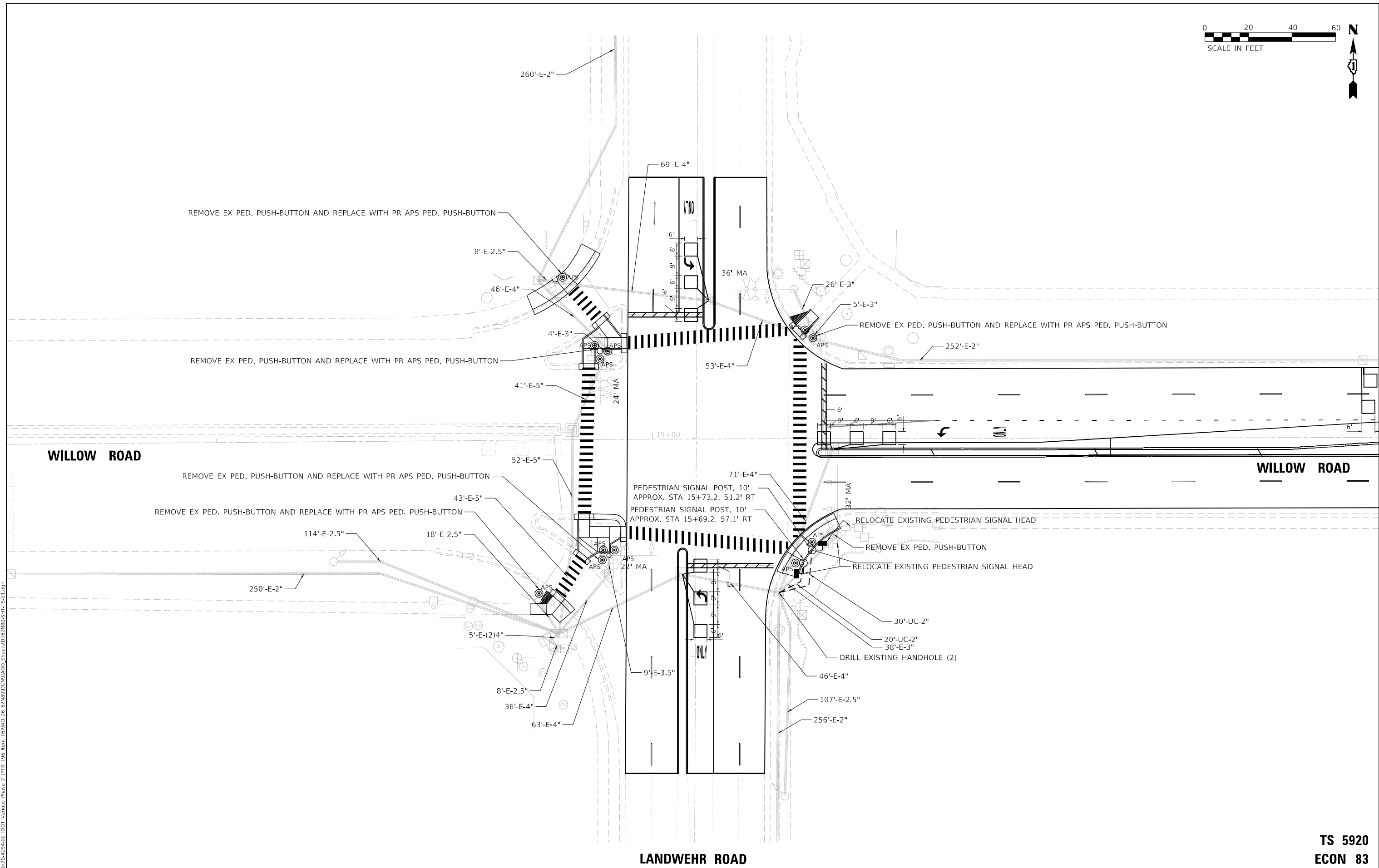
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ADA RAMP DETAILS
 WILLOW ROAD (LANDWEHR RD TO WAUKEGAN RD)**

SCALE: 1" = 5'

STA. TO STA.

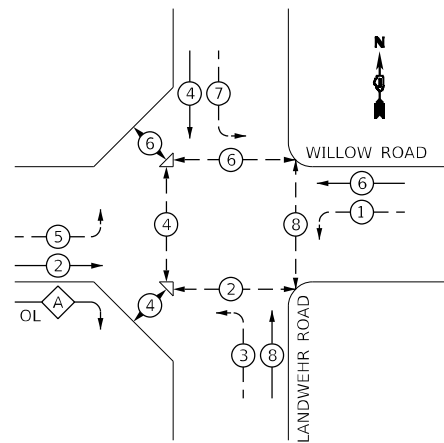
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CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



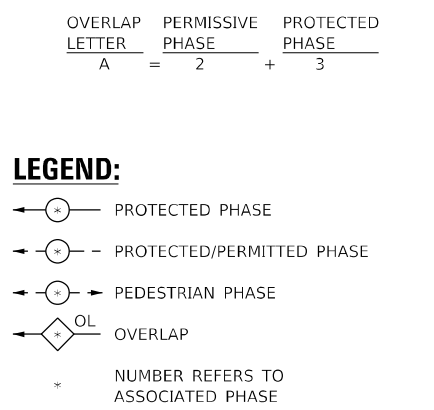
**TS 5920
ECON 83**

INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.475.9598 F 312.475.9598 www.infrastructure-eng.com	USER NAME = Alane PLOT SCALE = 40,0000 * / in.	DESIGNED - NFO DRAWN - NFO CHECKED - ACL DATE - 12/08/2022	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN WILLOW ROAD AND LANDWEHR ROAD	F.A.P. RTE. 305 SECTION 2021-048-R5 COUNTY COOK TOTAL SHEETS 61 SHEET NO. 35 CONTRACT NO. 62N80	SCALE: 1" = 20' STA. TO STA.	ILLINOIS FED. AID PROJECT

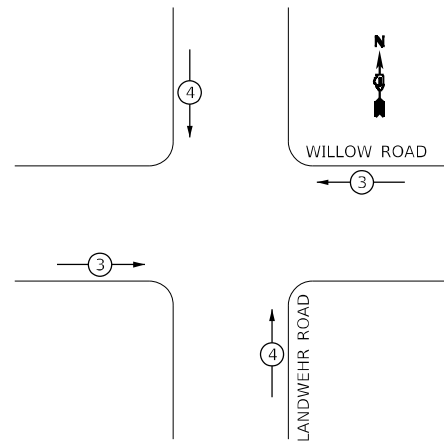
EXISTING CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	← →	↑ ↓

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	18	17	0.50	153.0
(YELLOW)	18	25	0.25	112.5
(GREEN)	18	15	0.25	67.5
PERMISSIVE ARROW	24	12	0.10	28.8
PED. SIGNAL	12	25	1.00	300.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
TOTAL =				786.8

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: MS. JO BEILER
 PHONE: (847) 870-2056
 COMPANY: COMED
 ACCOUNT NUMBER:

USER NAME =	Alane
PLOT SCALE =	2,000' / in.

DESIGNED -	NFO	REVISED -	
DRAWN -	NFO	REVISED -	
CHECKED -	ACL	REVISED -	
DATE -	12/08/2022		

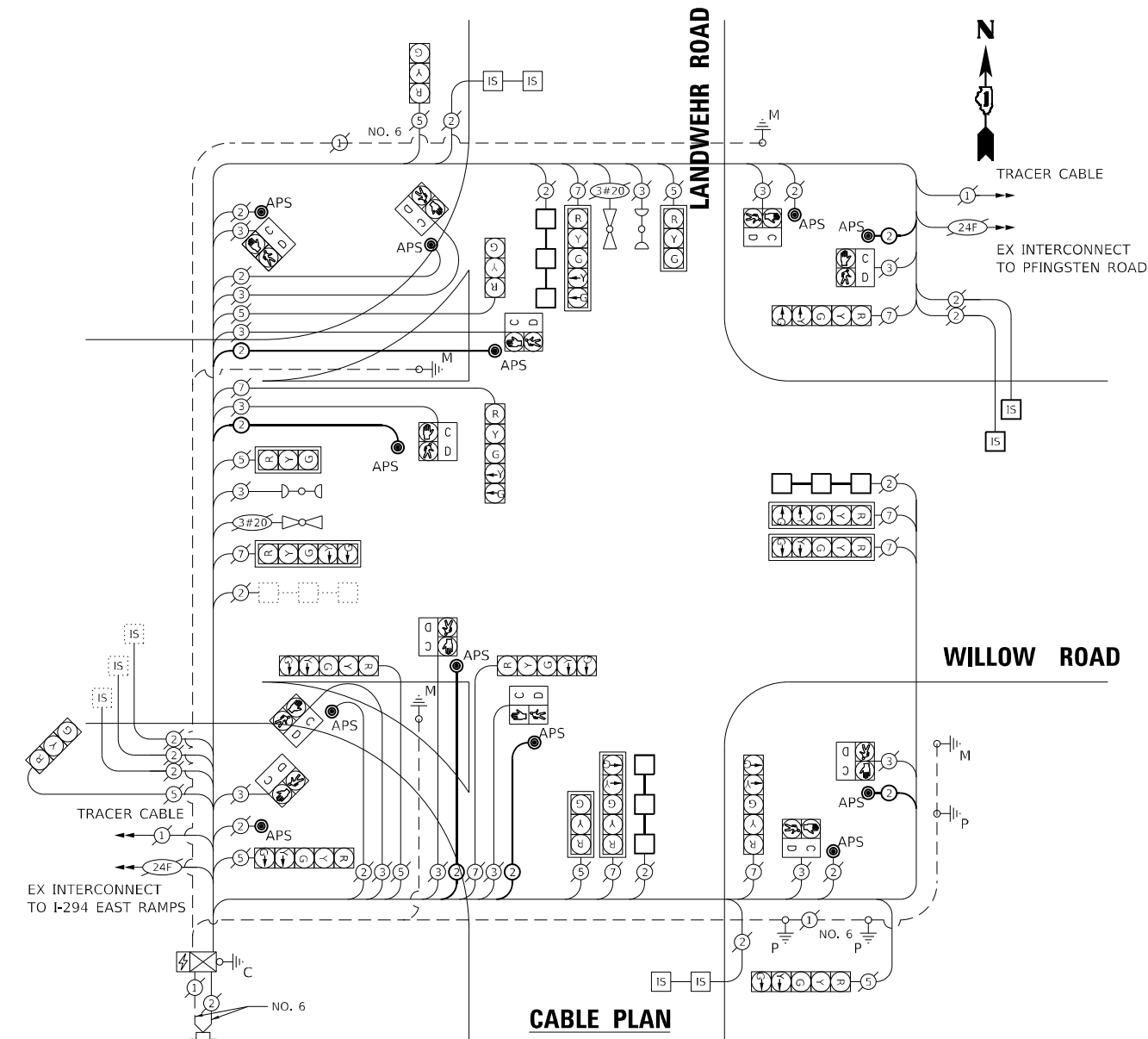
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & LANDWEHR ROAD

SCALE: NTS

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	36
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

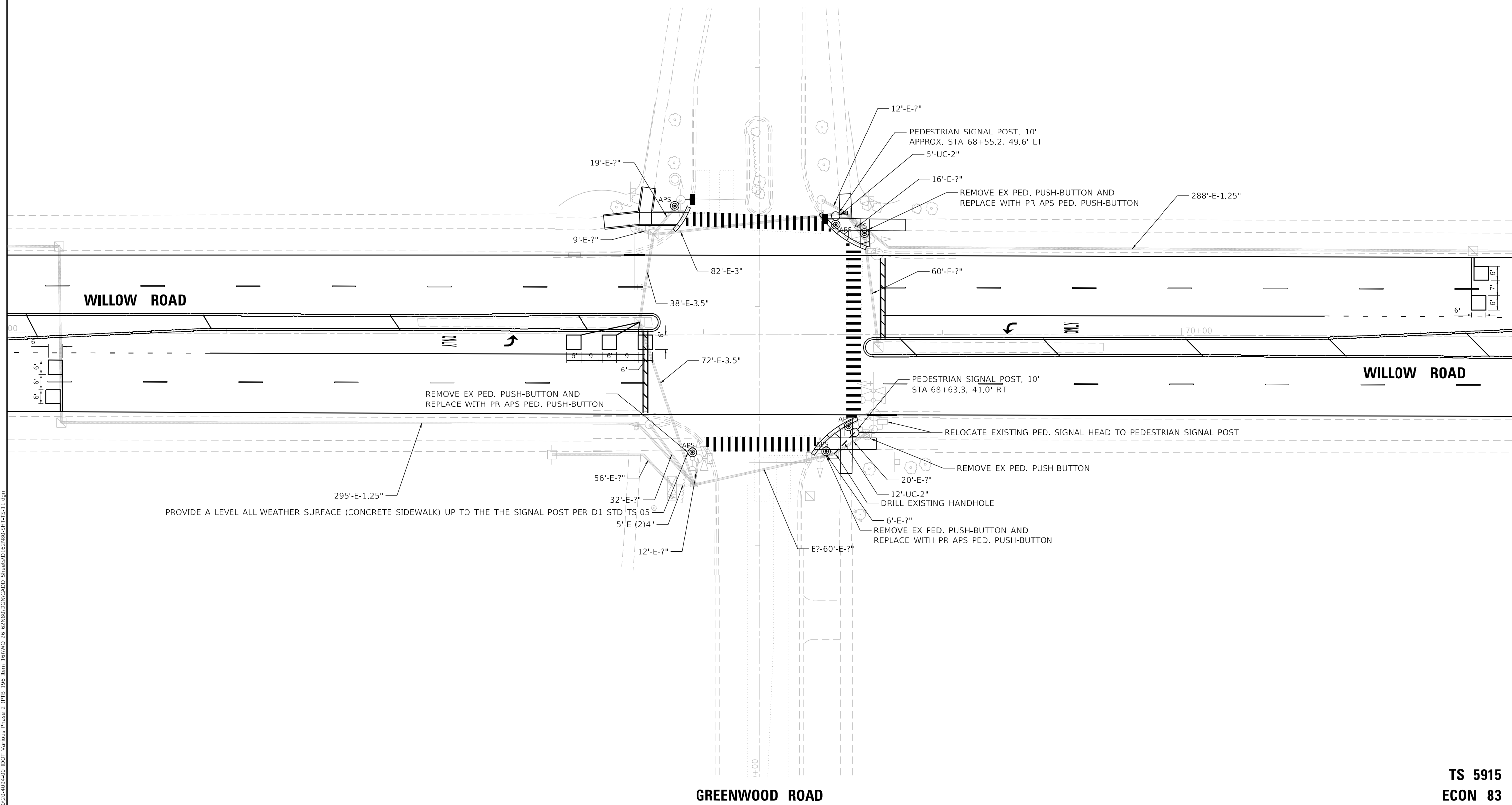


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	6
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	50
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	1381
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	20
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	12
DRILL EXISTING HANDHOLE	EACH	2
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
DETECTOR LOOP, TYPE I	FOOT	397
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	2
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	126

TS 5920
 ECON 83

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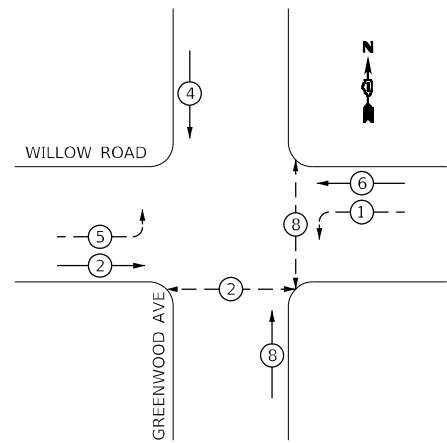


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**TS 5915
ECON 83**

INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com	USER NAME = Alane PLOT SCALE = 40,0000 * / in.	DESIGNED - NFO DRAWN - NFO CHECKED - ACL DATE - 12/08/2022	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN WILLOW ROAD AND GREENWOOD ROAD	F.A.P. RTE. 305 SECTION 2021-048-R5 COUNTY COOK TOTAL SHEETS 61 SHEET NO. 37	CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT
	SCALE: 1" = 20' STA. TO STA.						

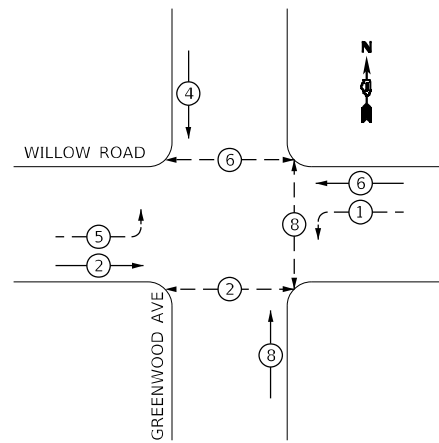
EXISTING CONTROLLER SEQUENCE



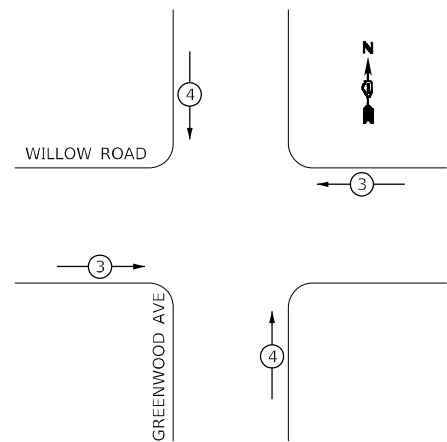
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←→	↑↓

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	14	17	0.50	119.0
(YELLOW)	14	25	0.25	87.5
(GREEN)	14	15	0.25	52.5
PERMISSIVE ARROW	8	12	0.10	9.6
PED. SIGNAL	6	25	1.00	150.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
			TOTAL =	543.6

ENERGY COSTS TO:
VILLAGE OF NORTHBROOK
 1225 CEDAR LANE
 NORTHBROOK, IL 60062
 ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMED
 ACCOUNT NUMBER: _____

INFRASTRUCTURE ENGINEERING INCORPORATED
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P 312.425.9598 | F 312.475.9594 | www.infrastructure-eng.com

USER NAME = Alane
 DESIGNED - NFO
 DRAWN - NFO
 CHECKED - ACL
 DATE - 12/08/2022

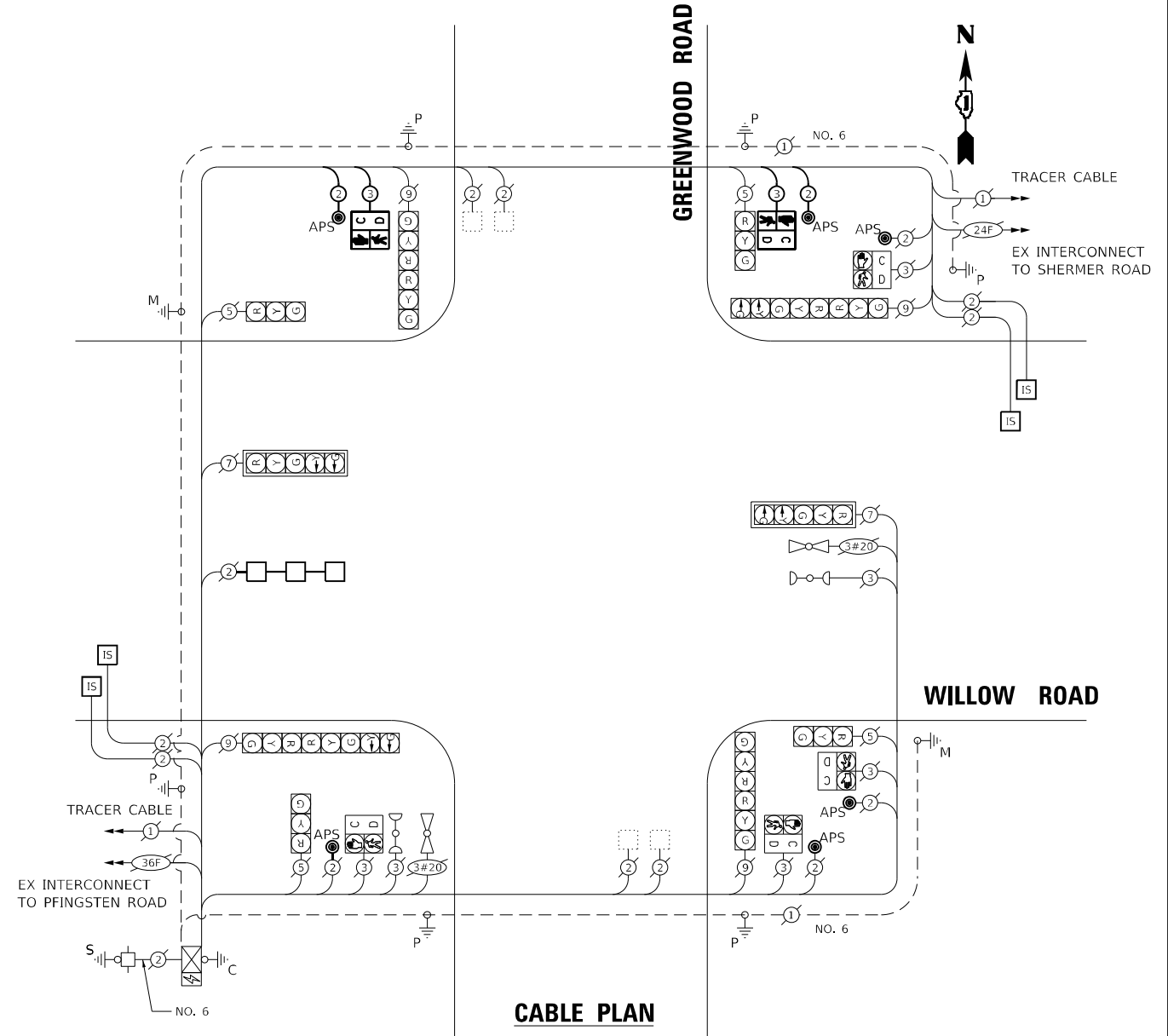
REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & GREENWOOD ROAD

SCALE: NTS TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	38
CONTRACT NO. 62N80				



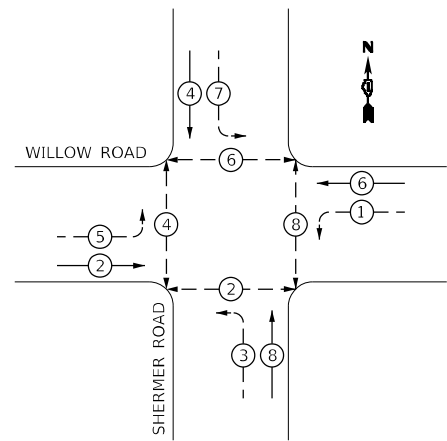
SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	2
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	5
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	448
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	436
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	20
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	6
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	8
DRILL EXISTING HANDHOLE	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED WITH COUNTDOWN TIMER	EACH	2
DETECTOR LOOP, TYPE I	FOOT	252
RELOCATE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	1
MODIFY EXISTING CONTROLLER	EACH	1
REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT	FOOT	32
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TS 5915
 ECON 83**

MODEL: P:\d\4\11
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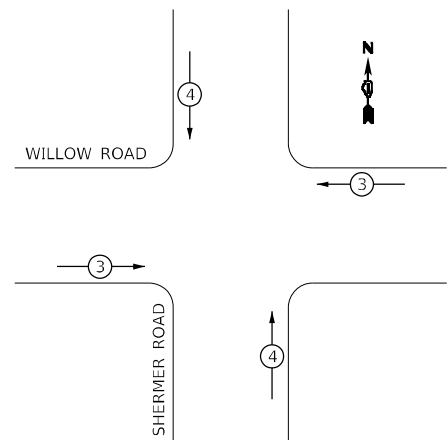
EXISTING CONTROLLER SEQUENCE



LEGEND:

- ← (circle with arrow) PROTECTED PHASE
- ← (circle with dashed arrow) PROTECTED/PERMITTED PHASE
- ← (circle with solid arrow) PEDESTRIAN PHASE
- ← (diamond with OL) OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



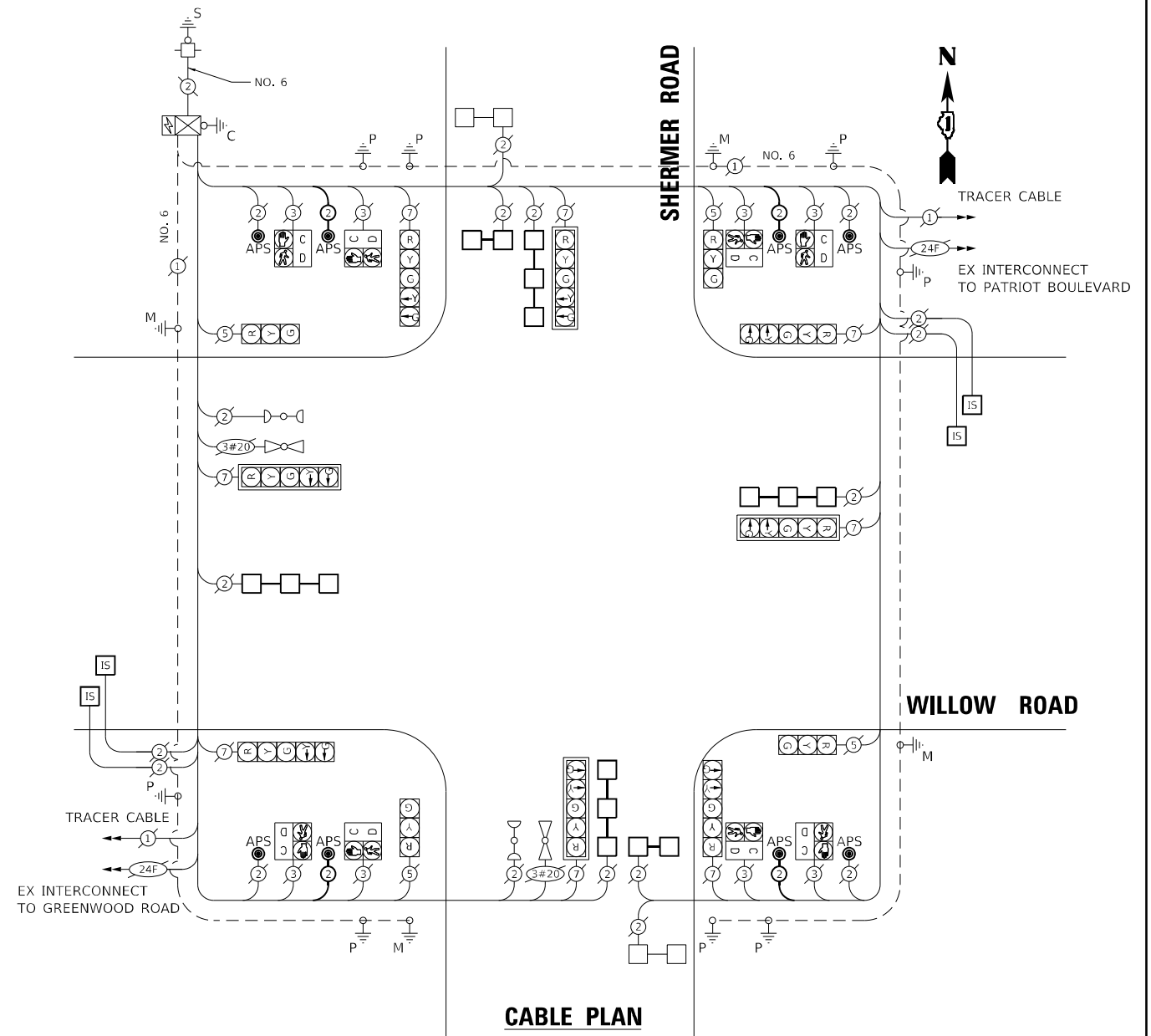
EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	←	↑

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102.0
(YELLOW)	12	25	0.25	75.0
(GREEN)	12	15	0.25	45.0
PERMISSIVE ARROW	16	12	0.10	19.2
PED. SIGNAL	8	25	1.00	200.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
			TOTAL =	566.2

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: _____
 PHONE: _____
 COMPANY: COMED
 ACCOUNT NUMBER: _____

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CABLE PLAN

SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	675
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
DETECTOR LOOP, TYPE I	FOOT	715
REMOVE EXISTING PEDESTRIAN SIGNAL HEAD	EACH	8

TS 5770
ECON 83

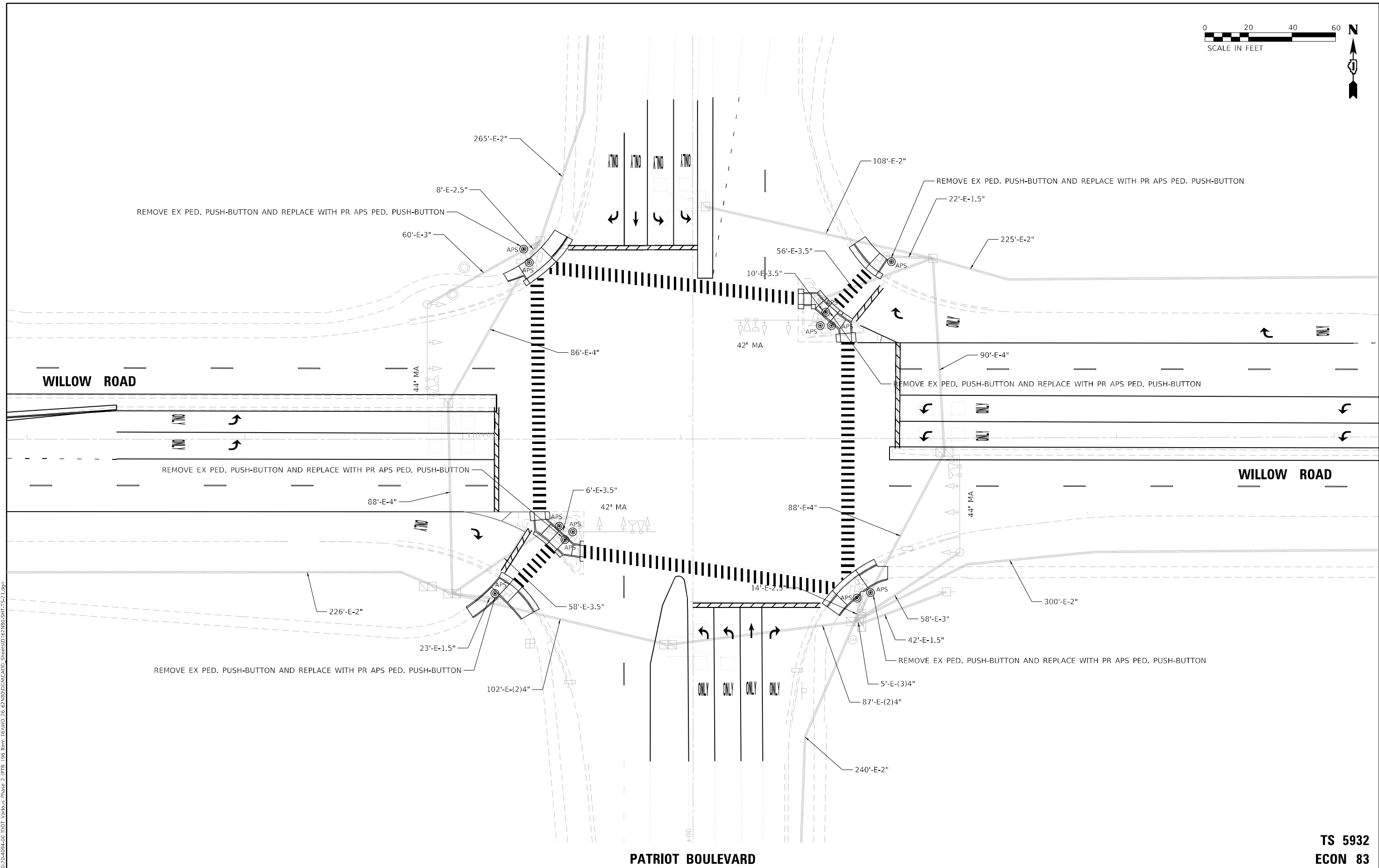
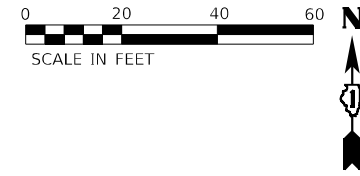
INFRASTRUCTURE ENGINEERING INCORPORATED
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P: 312.425.6588 | F: 312.425.5584 | www.infrastructure-eng.com

DESIGNED - NFO	REVISID -
DRAWN - NFO	REVISID -
CHECKED - ACL	REVISID -
DATE - 12/08/2022	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & SHERMER ROAD
 SCALE: NTS TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 40
CONTRACT NO. 62280				
ILLINOIS FED. AID PROJECT				



PATRIOT BOULEVARD

WILLOW ROAD

**TS 5932
ECON 83**

MODEL: Default
FILE NAME: P:\2020\4094-00_IDOT_Various Phase 2 (P)EL 106 Item 16\WV0_26_62N80\DC\CAD\Drawings\Sheet\TS-21.dgn

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1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.9598 | F 312.425.9598 | www.infrastructure-eng.com

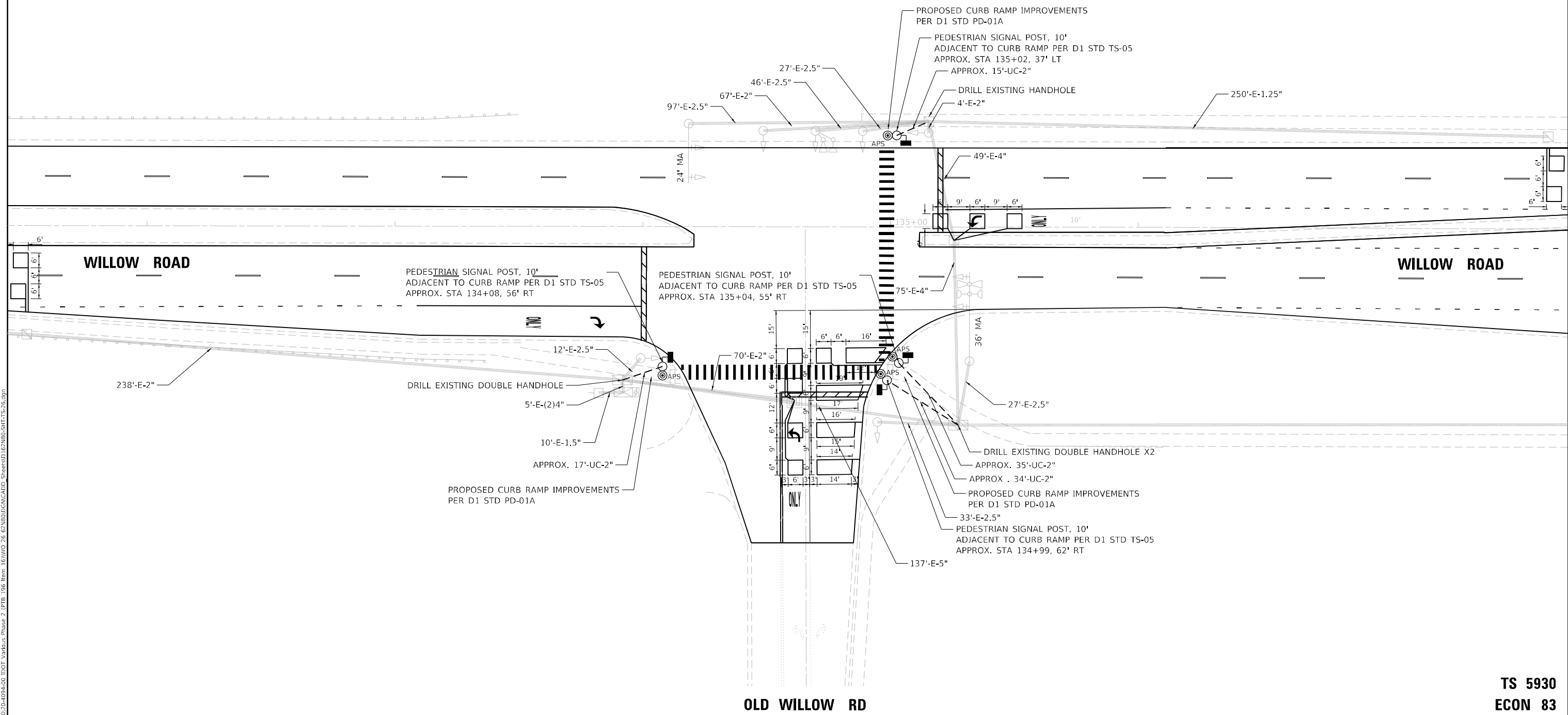
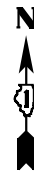
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PLOT SCALE = 40,0000 * / in.	DRAWN - NFO	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
WILLOW ROAD AND PATRIOT BOULEVARD**

SCALE: 1" = 20' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	41
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



TS 5930
ECON 83

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INFRASTRUCTURE ENGINEERING
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.9598 | F 312.425.9594 | www.infrastructure-eng.com

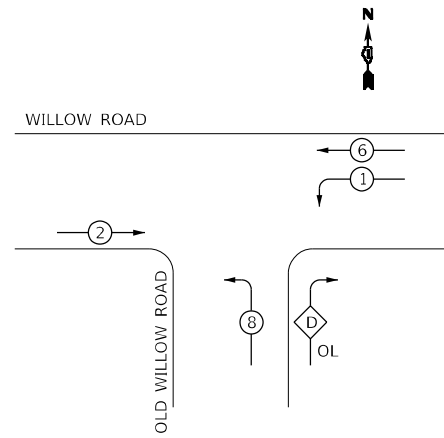
USER NAME = Alane	DESIGNED - NFO	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - NFO	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
WILLOW ROAD AND OLD WILLOW ROAD**
SCALE: 1" = 20'
STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	43
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



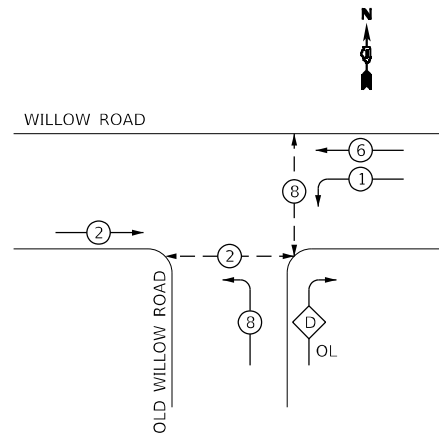
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER D = PERMISSIVE PHASE 8 + PROTECTED PHASE 1

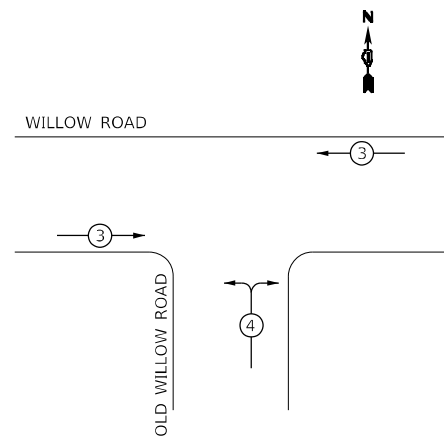
LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) - (P) → PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (OL) → OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↑

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	10	17	0.50	85.0
(YELLOW)	10	25	0.25	62.5
(GREEN)	10	15	0.25	37.5
PERMISSIVE ARROW	4	12	0.10	4.8
PED. SIGNAL	4	25	1.00	100.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
			TOTAL =	414.8

ENERGY COSTS TO:
VILLAGE OF NORTHBROOK
 1225 CEDAR LANE
 NORTHBROOK, IL 60062
 ENERGY SUPPLY: CONTACT: TERRI BLECK
 PHONE: (847) 816-5239
 COMPANY: COMED
 ACCOUNT NUMBER: _____

INFRASTRUCTURE ENGINEERING INCORPORATED
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P 312.425.9598 | F 312.425.9599 | www.infrastructure-eng.com

USER NAME = Alane
 DESIGNED - NFO
 DRAWN - NFO
 CHECKED - ACL
 DATE - 12/08/2022

REVISOR -
 REVISED -
 REVISED -

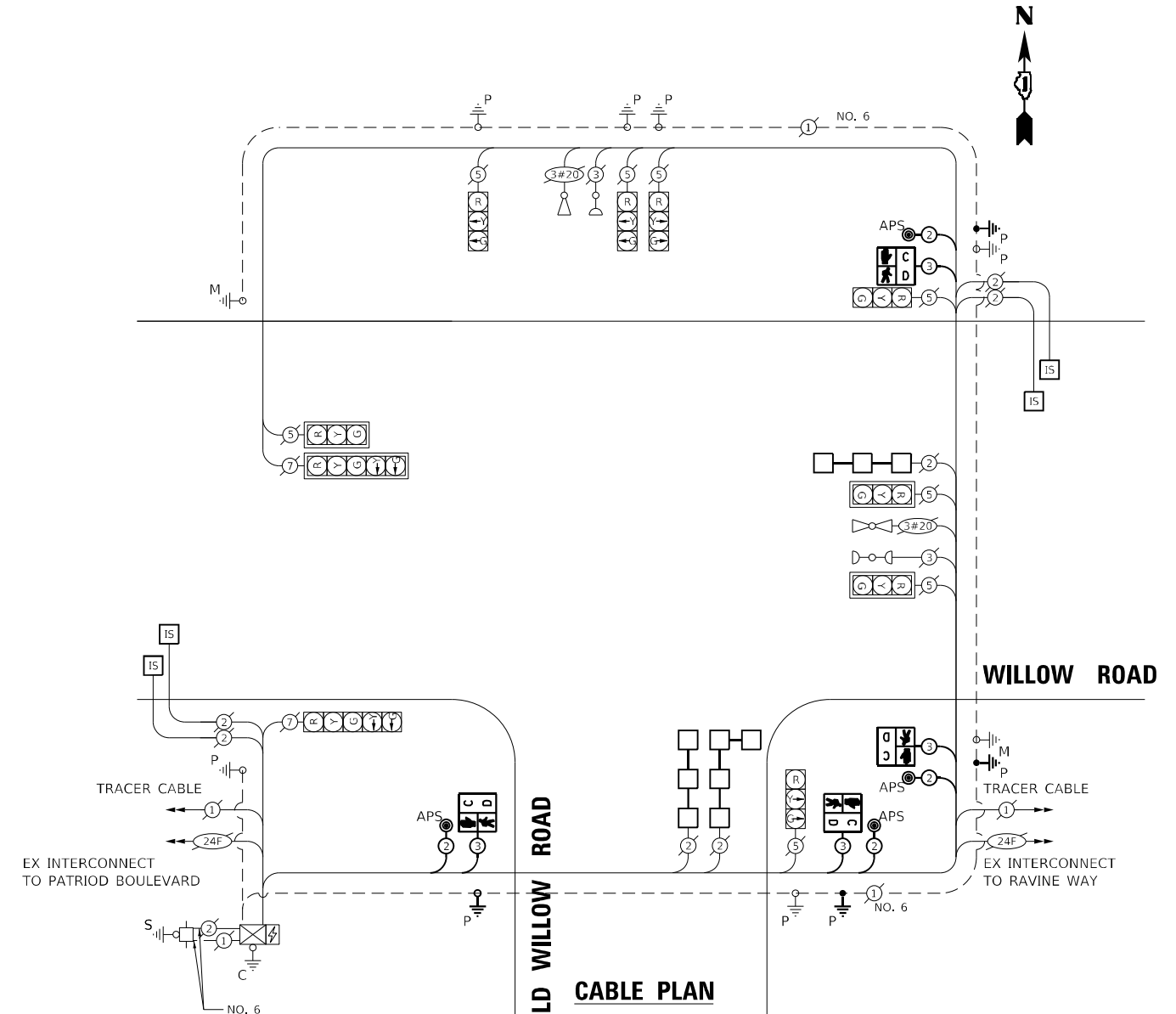
PLOT SCALE = 2,000' / in.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND EVP SEQUENCE | WILLOW ROAD & OLD WILLOW ROAD

SCALE: NTS STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 44
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

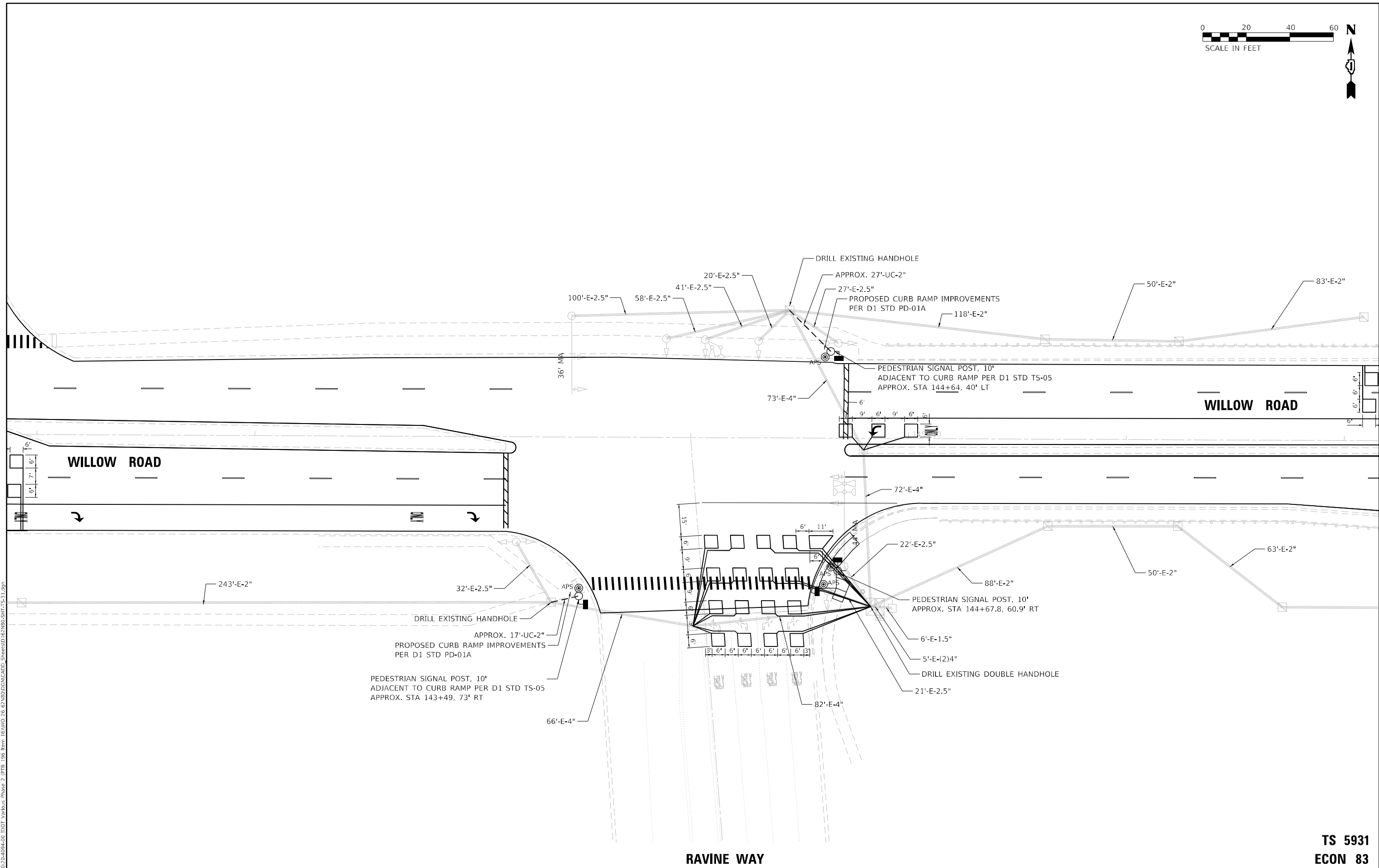


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	112
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	295
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	283
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	638
MODIFY EXISTING CONTROLLER	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TS 5930
ECON 83**

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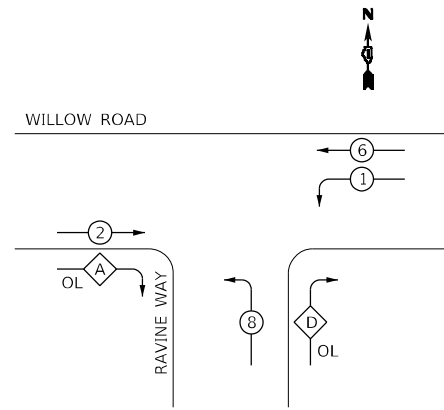


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TS 5931
ECON 83

INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com	USER NAME = Alane PLOT SCALE = 40,0000 * / in.	DESIGNED - NFO DRAWN - NFO CHECKED - ACL DATE - 12/08/2022	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC SIGNAL INSTALLATION PLAN WILLOW ROAD AND RAVINE WAY	F.A.P. RTE. 305 SECTION 2021-048-R5 COUNTY COOK TOTAL SHEETS 61 SHEET NO. 45	CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT
	SCALE: 1" = 20' STA. TO STA.						

EXISTING CONTROLLER SEQUENCE



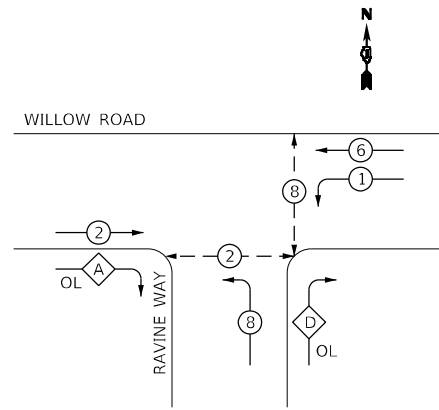
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE	DISPLAY
A	= 2	+ 8	- 8
D	= 8	+ 1	

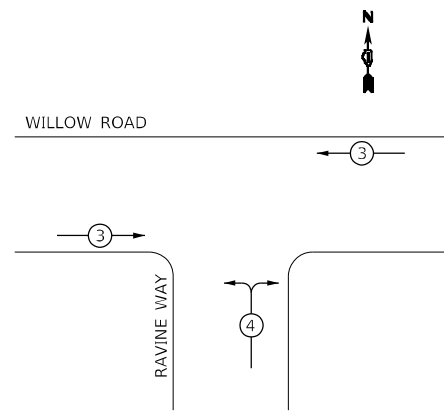
LEGEND:

- ← * → PROTECTED PHASE
- ← + → PROTECTED/PERMITTED PHASE
- ← - → PEDESTRIAN PHASE
- ← OL → OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS		
EMERGENCY VEHICLE PREEMPTOR	3	4
MOVEMENT	↔	↑

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	12	17	0.50	102.0
(YELLOW)	12	25	0.25	75.0
(GREEN)	12	15	0.25	45.0
PERMISSIVE ARROW	8	12	0.10	9.6
PED. SIGNAL	4	25	1.00	100.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
TOTAL =				456.6

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 DIVISION OF HIGHWAY/DISTRICT 1
 201 WEST CENTER COURT/SCHAUMBURG, ILLINOIS 60196-1096
 ENERGY SUPPLY: CONTACT: COMED
 PHONE: (866) 639-3532
 COMPANY: COMED
 ACCOUNT NUMBER: _____

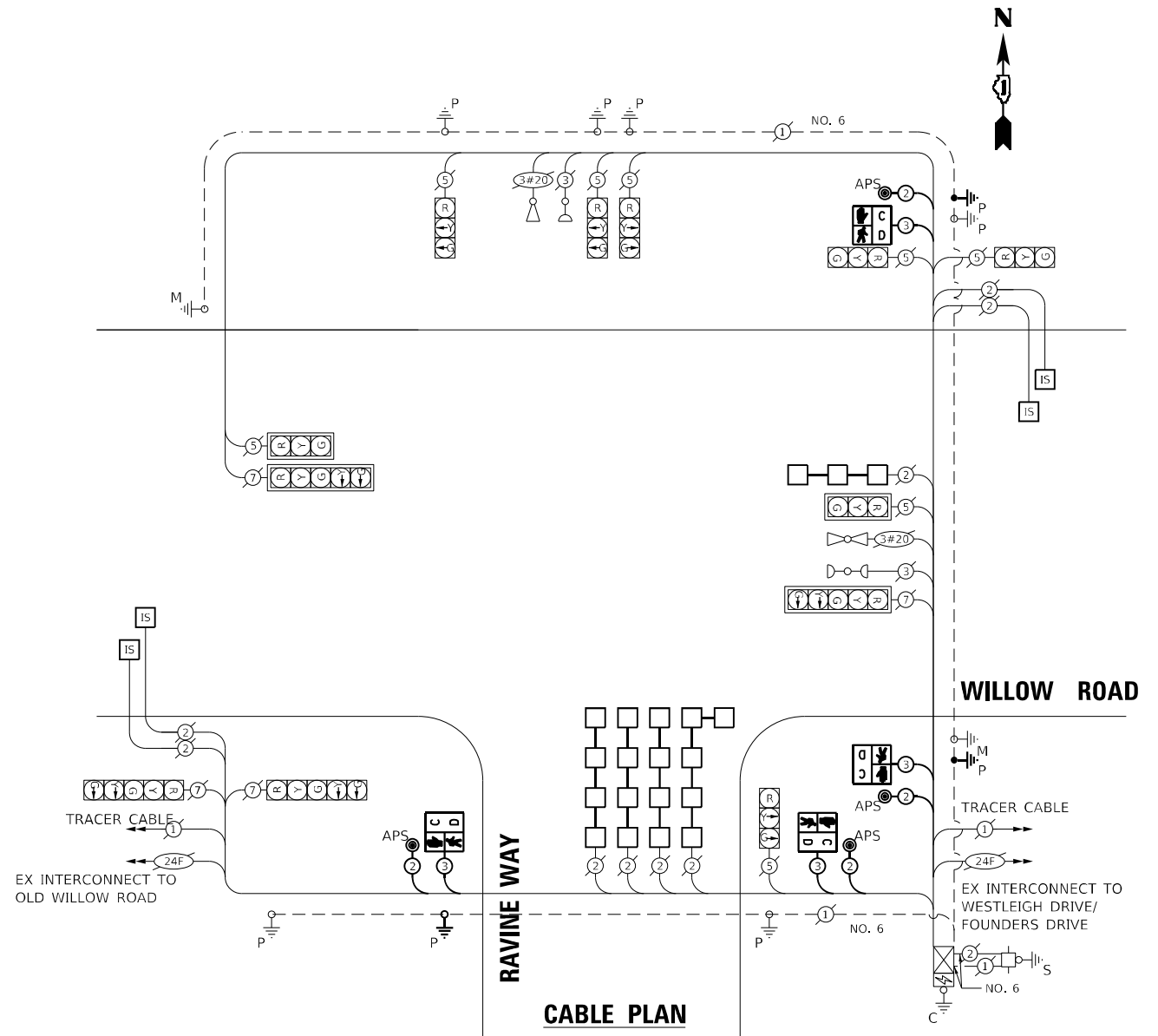
<p>INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com</p>	USER NAME = Alane	DESIGNED - NFO	REVISED -
	PLOT SCALE = 2,000' / in.	DRAWN - NFO	REVISED -
		CHECKED - ACL	REVISED -
		DATE - 12/08/2022	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND AND EVP SEQUENCE | WILLOW ROAD & RAVINE WAY

SCALE: NTS TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	46
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



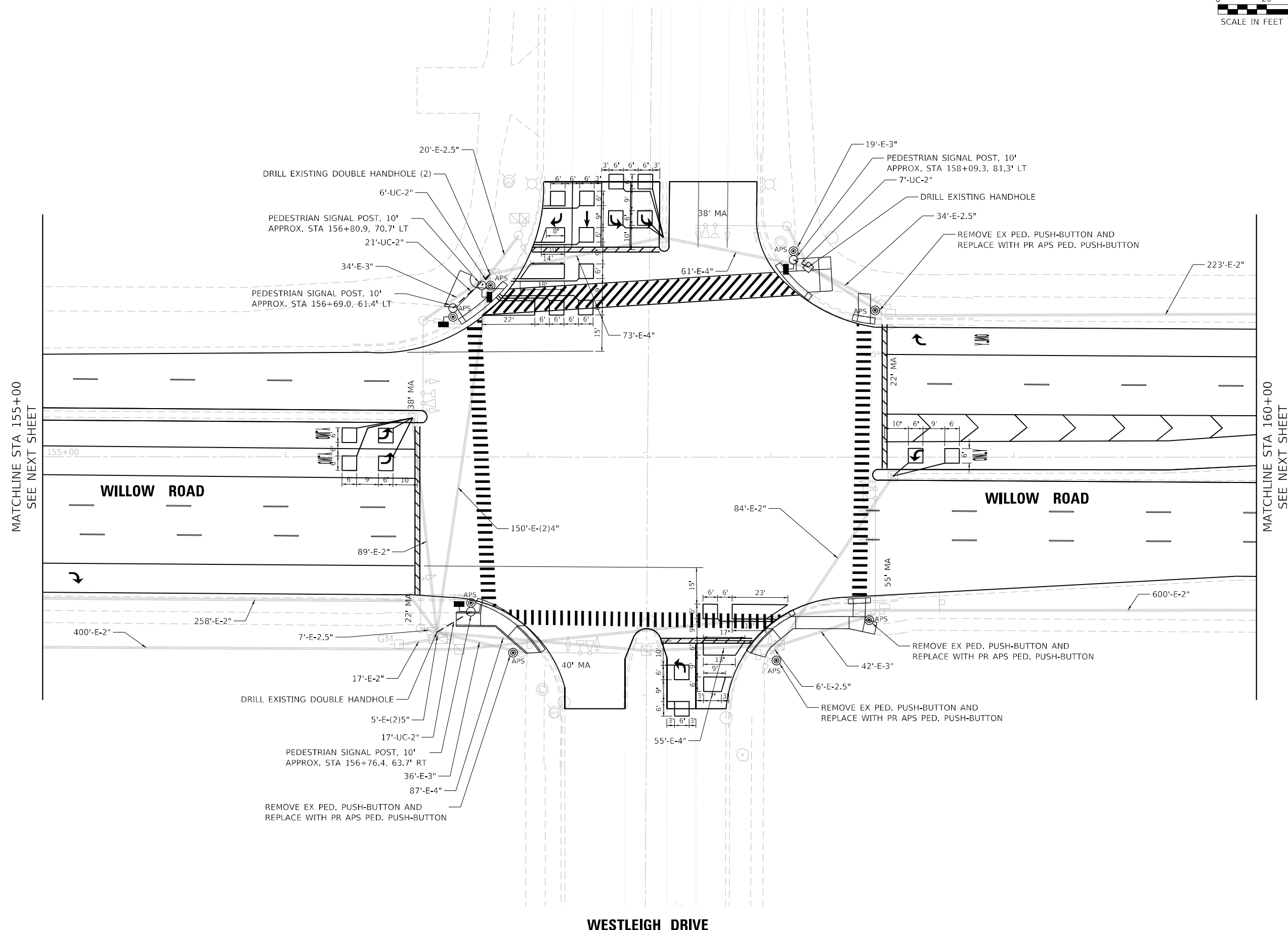
SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	3
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	68
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	289
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	277
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	30
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	4
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	12
DRILL EXISTING HANDHOLE	EACH	3
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE 1	FOOT	1265
MODIFY EXISTING CONTROLLER	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

**TS 5931
ECON 83**

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 FILE NAME: P:\d\p\h\p\...

FOUNDERS DRIVE



MATCHLINE STA 155+00
SEE NEXT SHEET

MATCHLINE STA 160+00
SEE NEXT SHEET

WILLOW ROAD

WILLOW ROAD

WESTLEIGH DRIVE

TS 5933
ECON 83

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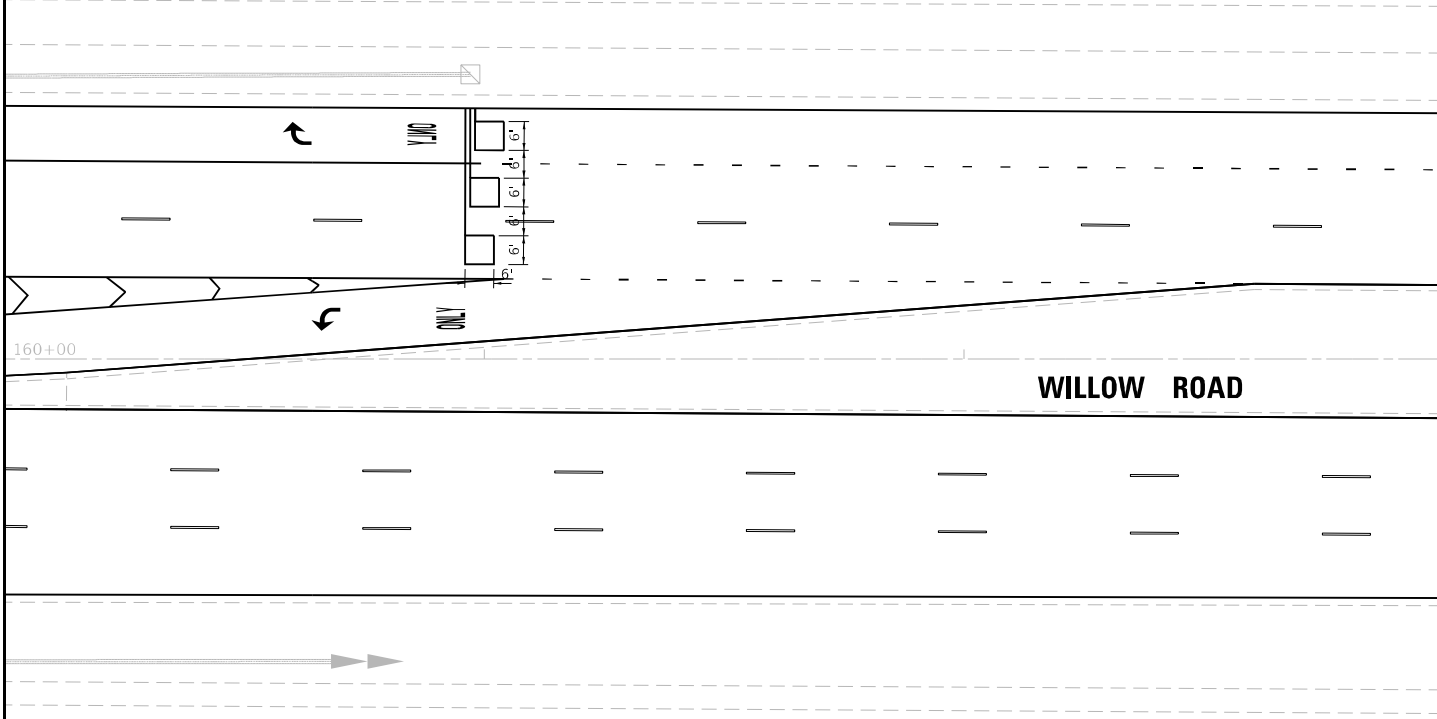
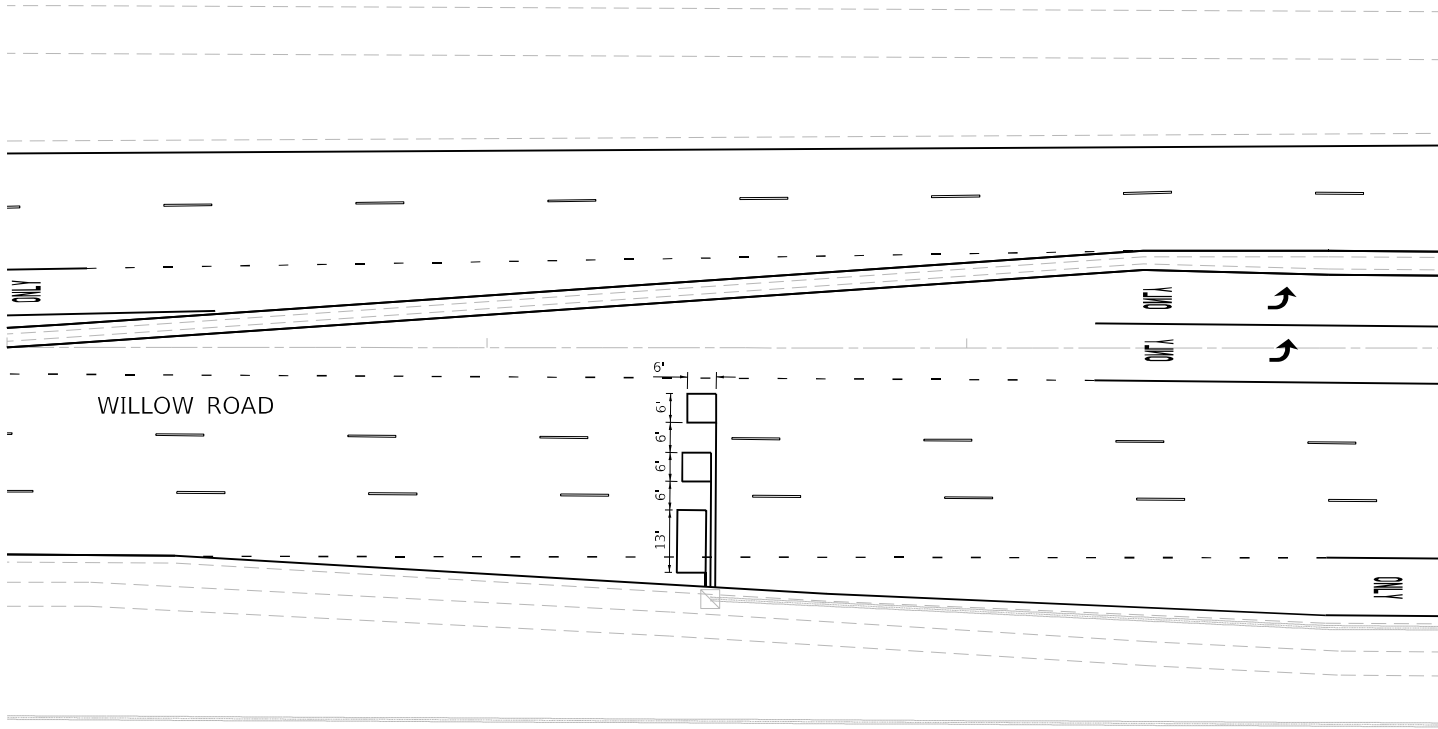
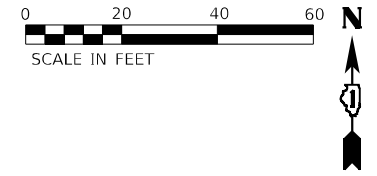
INFRASTRUCTURE ENGINEERING INCORPORATED
 1 South Wacker | Suite 2650 | Chicago, IL 60606
 P 312.425.9598 | F 312.425.9594 | www.infrastructure-eng.com

USER NAME = Alane	DESIGNED - NFO	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - NFO	REVISED -
DATE - 12/08/2022	CHECKED - ACL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL INSTALLATION PLAN
WILLOW ROAD AND WESTLEIGH/FOUNDERS DRIVE
 SCALE: 1" = 20' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	47
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



MATCHLINE STA 160+00
SEE PREVIOUS SHEET

WILLOW ROAD

TS 5933
ECON 83

MODEL: P:\dxf\h
FILE NAME: P:\C\2020\4094-00 IDOT Vnhois Phase 2 (ITB) 106 Item 161WV0_26 62N80\DC\ACADD Streets\1621805-SHT-TS-37.dgn

INFRASTRUCTURE ENGINEERING INCORPORATED
1 South Wacker | Suite 2650 | Chicago, IL 60606
P 312.425.9598 | F 312.425.9594 | www.infrastructure-eng.com

USER NAME = ALane	DESIGNED - NFO	REVISED -
PLOT SCALE = 40,0000 * / in.	DRAWN - NFO	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

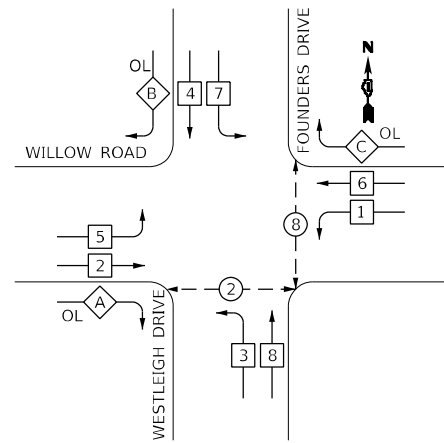
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL INSTALLATION PLAN
WILLOW ROAD AND WESTLEIGH/FOUNDERS DRIVE**

SCALE: 1" = 20' STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	48
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

EXISTING CONTROLLER SEQUENCE



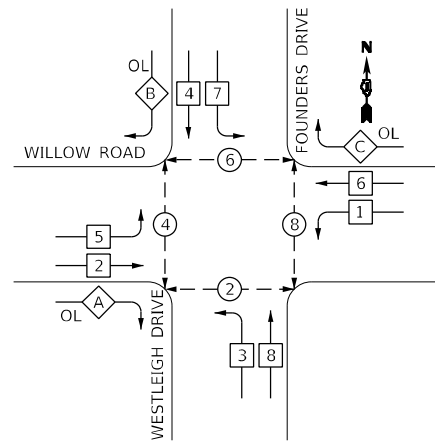
PHASE DESIGNATION DIAGRAM

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
A	= 2	+ 3
B	= 4	+ 5
C	= 6	+ 7

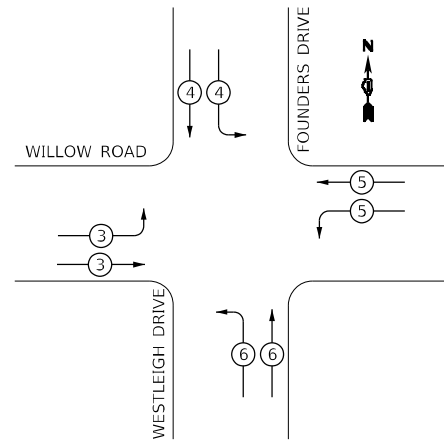
LEGEND:

- ⊕ - PROTECTED PHASE
- ⊕ - PROTECTED/PERMITTED PHASE
- ⊕ - DUAL ENTRY PHASE
- ⊕ - SINGLE ENTRY PHASE
- ⊕ - PEDESTRIAN PHASE
- ⊕ - OVERLAP
- * NUMBER REFERS TO ASSOCIATED PHASE

PROPOSED CONTROLLER SEQUENCE



EXISTING EMERGENCY VEHICLE PREEMPTION SEQUENCE



EMERGENCY VEHICLE PREEMPTORS				
EMERGENCY VEHICLE PREEMPTOR	3	4	5	6
MOVEMENT				

TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. OF LAMPS	LED WATTAGE	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	22	17	0.50	187.0
(YELLOW)	22	25	0.25	137.5
(GREEN)	22	15	0.25	82.5
PERMISSIVE ARROW	12	12	0.10	14.4
PED. SIGNAL	6	25	1.00	150.0
CONTROLLER	1	100	1.00	100.0
UPS	1	25	1.00	25.0
VIDEO SYSTEM		150	1.00	
BLANK-OUT SIGN		25	0.05	
FLASHER			0.50	
STREET NAME SIGN		120	0.50	
LUMINAIRE				
TOTAL =				696.4

ENERGY COSTS TO:

VILLAGE OF NORTHBROOK
1225 CEDAR LANE
NORTHBROOK, IL 60062

ENERGY SUPPLY: CONTACT: TERRI BLECK
PHONE: (847) 816-5239
COMPANY: COMED
ACCOUNT NUMBER: _____



USER NAME = Alane
DESIGNED - NFO
DRAWN - NFO
CHECKED - ACL
DATE - 12/08/2022
PLOT SCALE = 2,000' / in.

REVISED -
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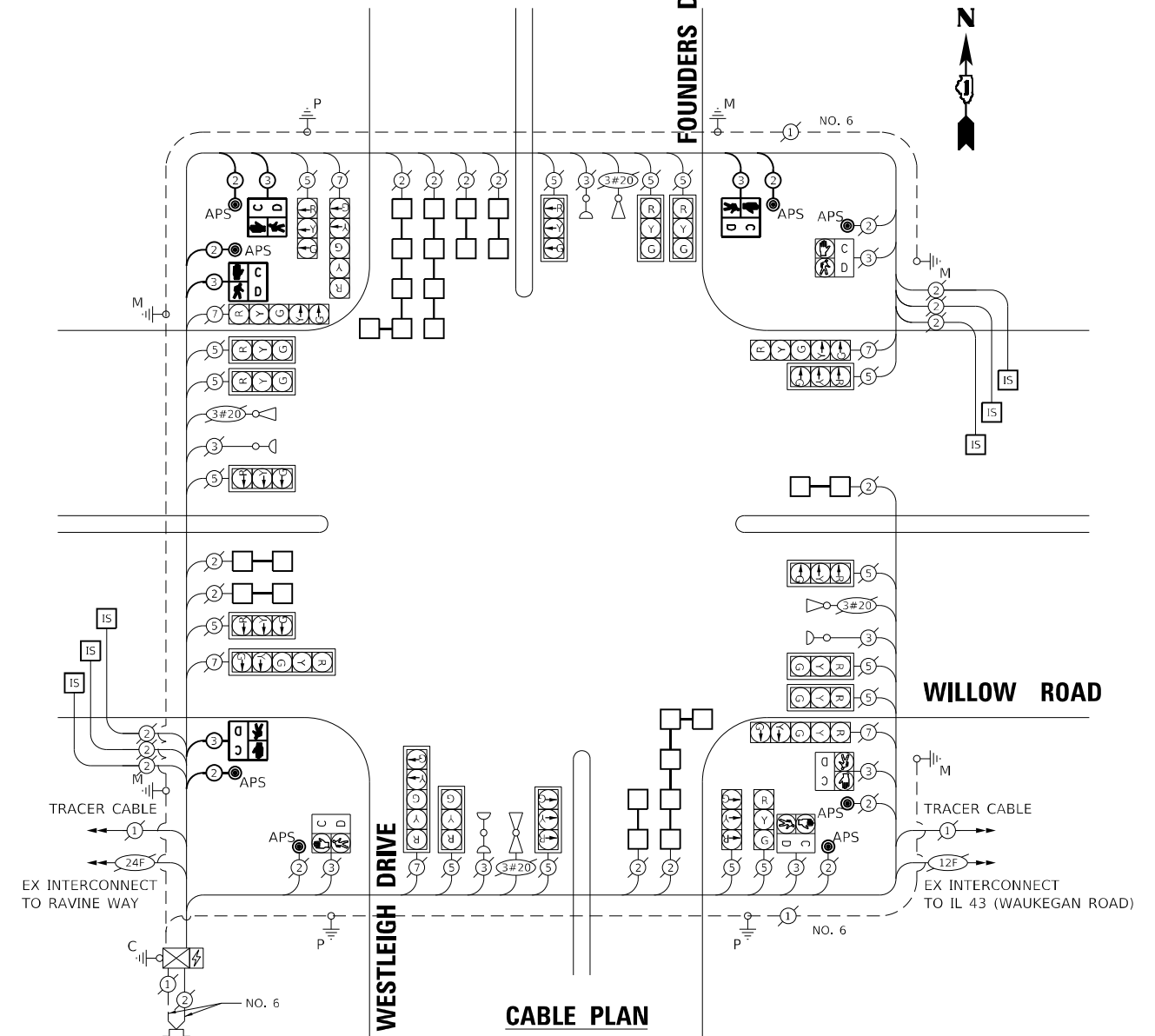
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES, CABLE PLAN, PHASE DIAGRAM, AND
EVP SEQUENCE | WILLOW ROAD & WESTLEIGH/FOUNDERS DRIVE

SCALE: NTS

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	49
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

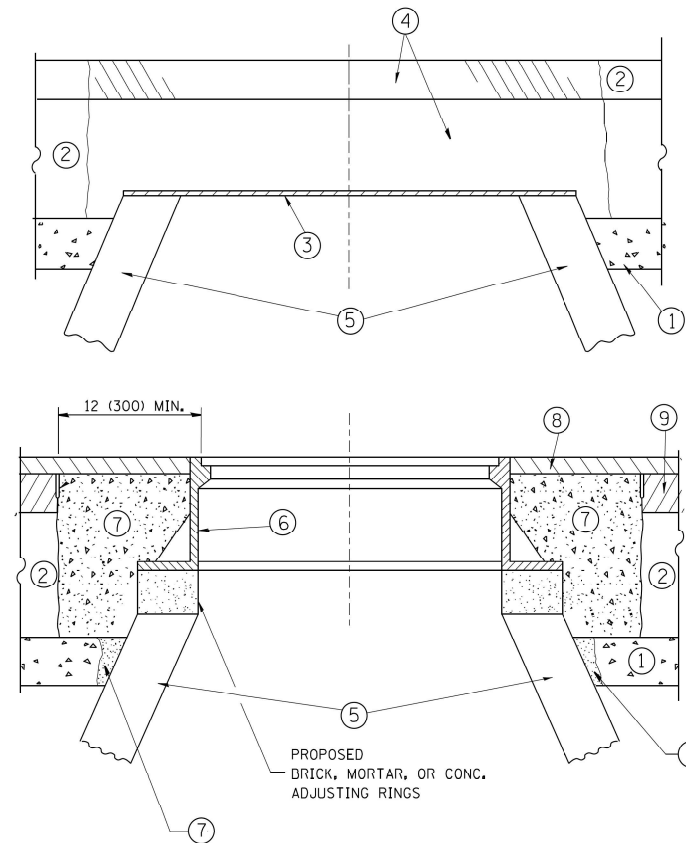


SCHEDULE OF QUANTITIES

DESCRIPTION	UNIT	TOTAL
PEDESTRIAN SIGNAL POST, 10 FT.	EACH	4
REMOVE EXISTING PEDESTRIAN PUSH BUTTON	EACH	4
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	51
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	871
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	847
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	40
ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	16
DRILL EXISTING HANDHOLE	EACH	4
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, POST MOUNTED WITH COUNTDOWN TIMER	EACH	4
DETECTOR LOOP, TYPE I	FOOT	1355
MODIFY EXISTING CONTROLLER	EACH	1
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 1	EACH	1

TS 5933
ECON 83

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CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

MODEL: D:\p\h\h\... INFRASTRUCTURE ENGINEERING INCORPORATED

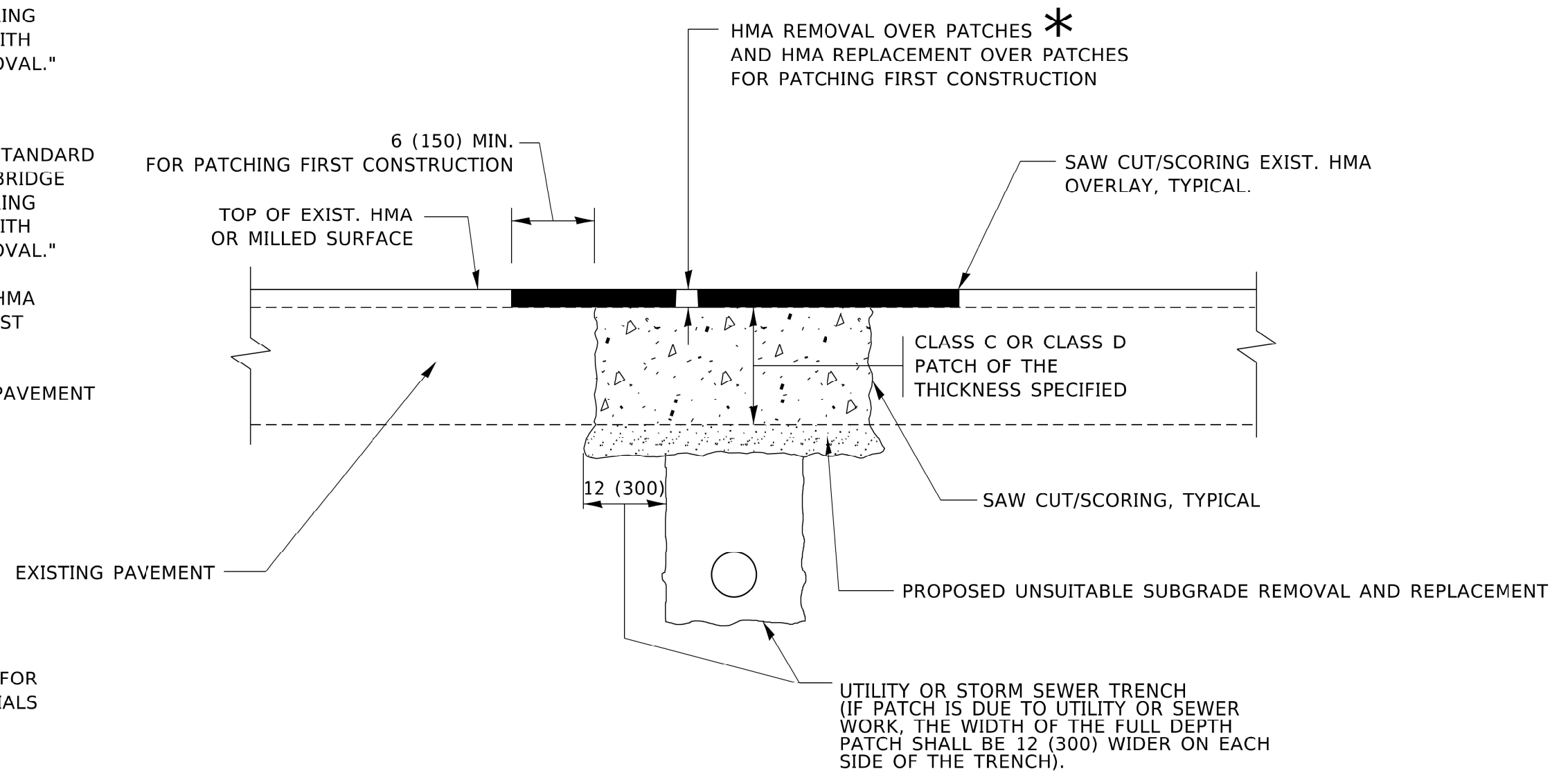
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	PLOT SCALE = 20,0000 * / in.	CHECKED - ACL	REVISED -			305	2021-048-R5	COOK	61	50
DATE - 12/08/2022					SCALE: NTS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

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.

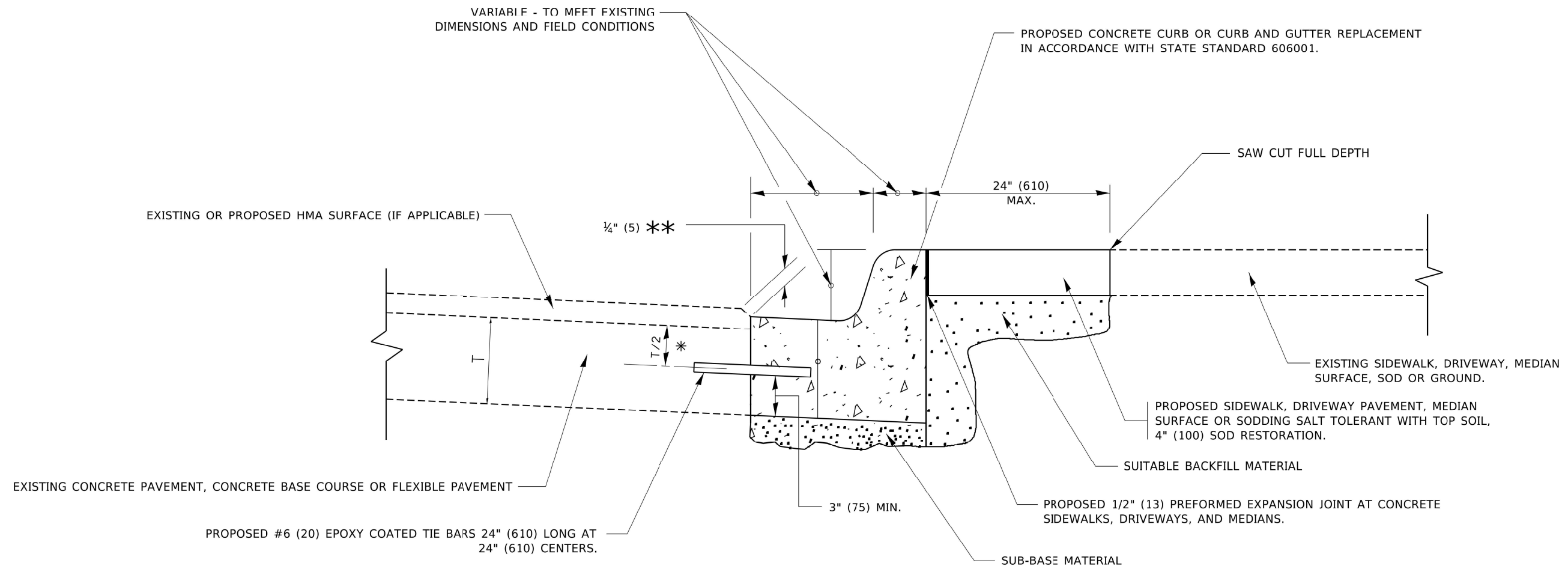
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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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<p>INFRASTRUCTURE ENGINEERING 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9598 www.infrastructure-eng.com</p>	USER NAME = Alane PLOT SCALE = 20,0000 * / in.	DESIGNED - MLD DRAWN - MLD CHECKED - ACL DATE - 12/08/2022	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)	F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 51
	SCALE: NTS					STA. TO STA.		ILLINOIS FED. AID PROJECT CONTRACT NO. 62N80		



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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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DRAWN - MLD	REVISED -	
PLOT SCALE = 20,0000 * / in.	CHECKED - ACL	REVISED -
DATE - 12/08/2022		

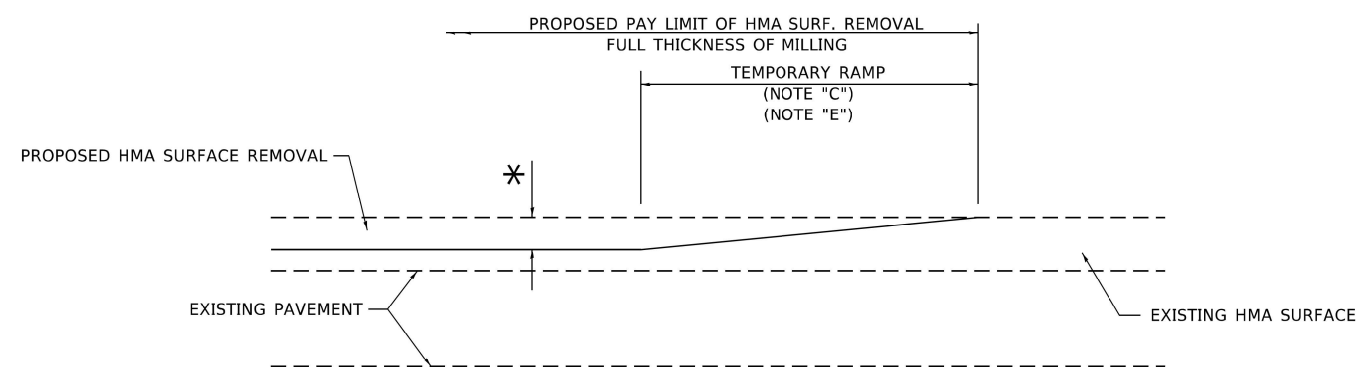
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT (BD-24)**

SCALE: NTS STA. TO STA.

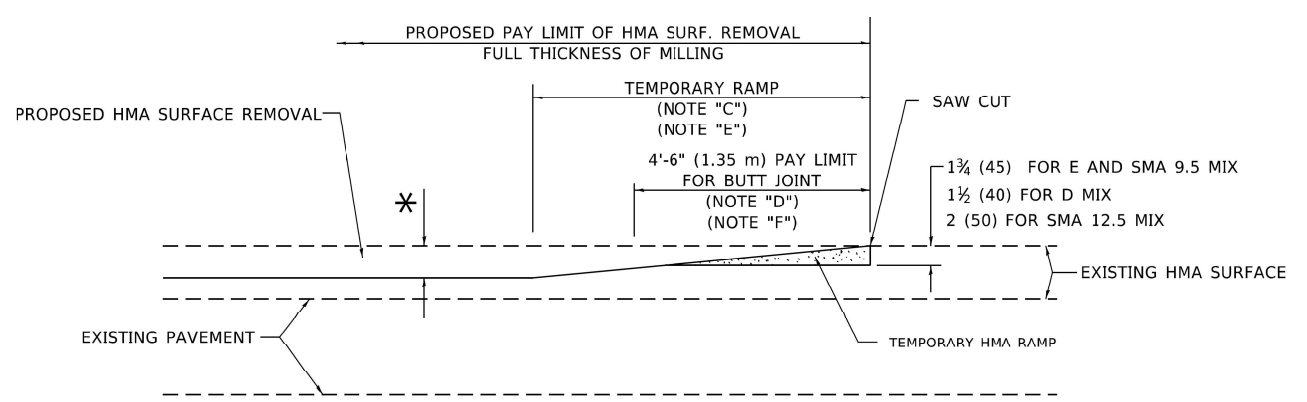
F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 52
ILLINOIS			FED. AID PROJECT	

CONTRACT NO. 62N80



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

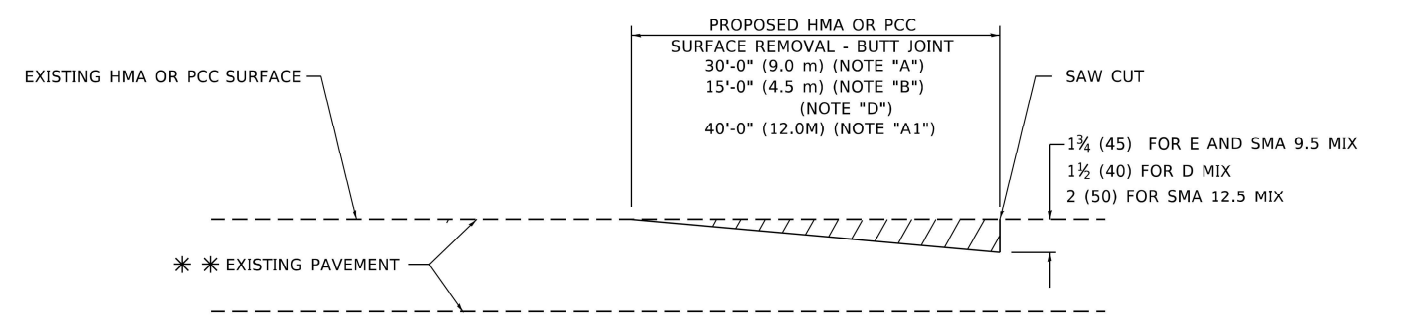
OPTION 1



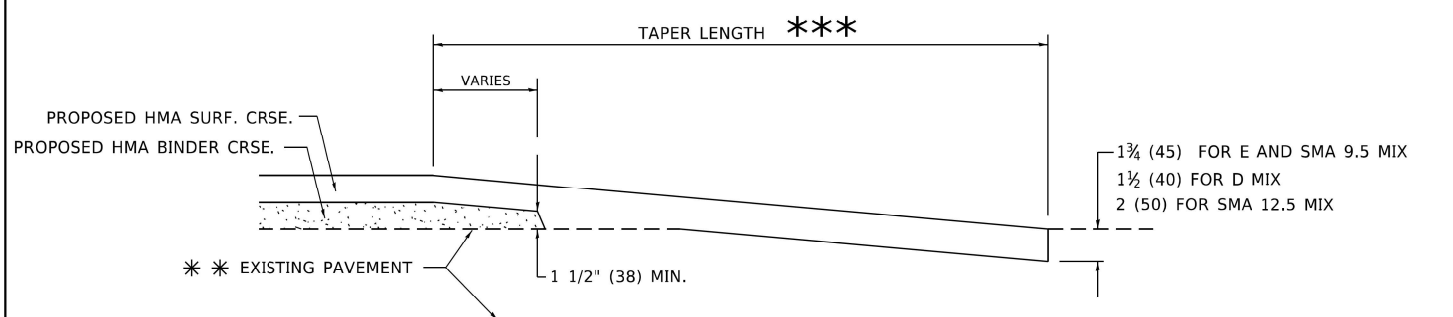
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

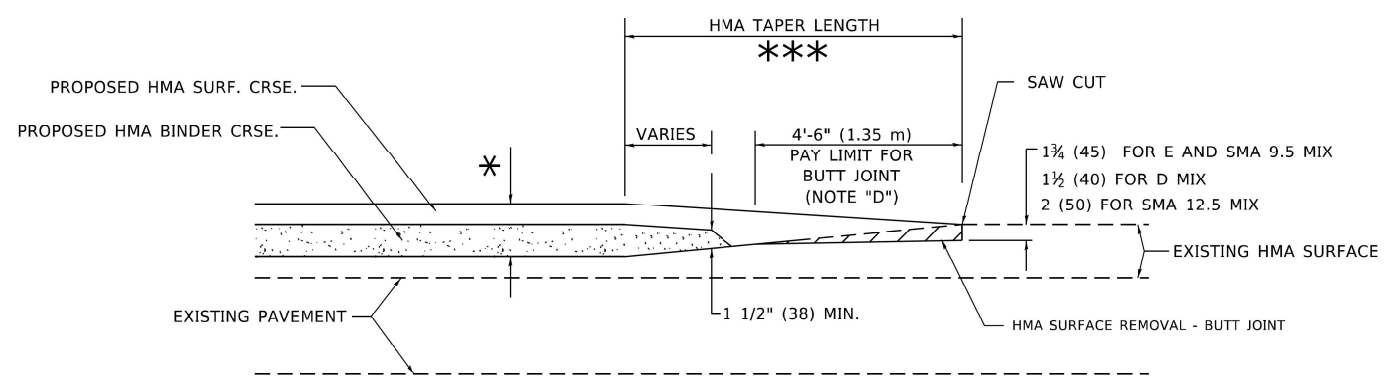
GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL- BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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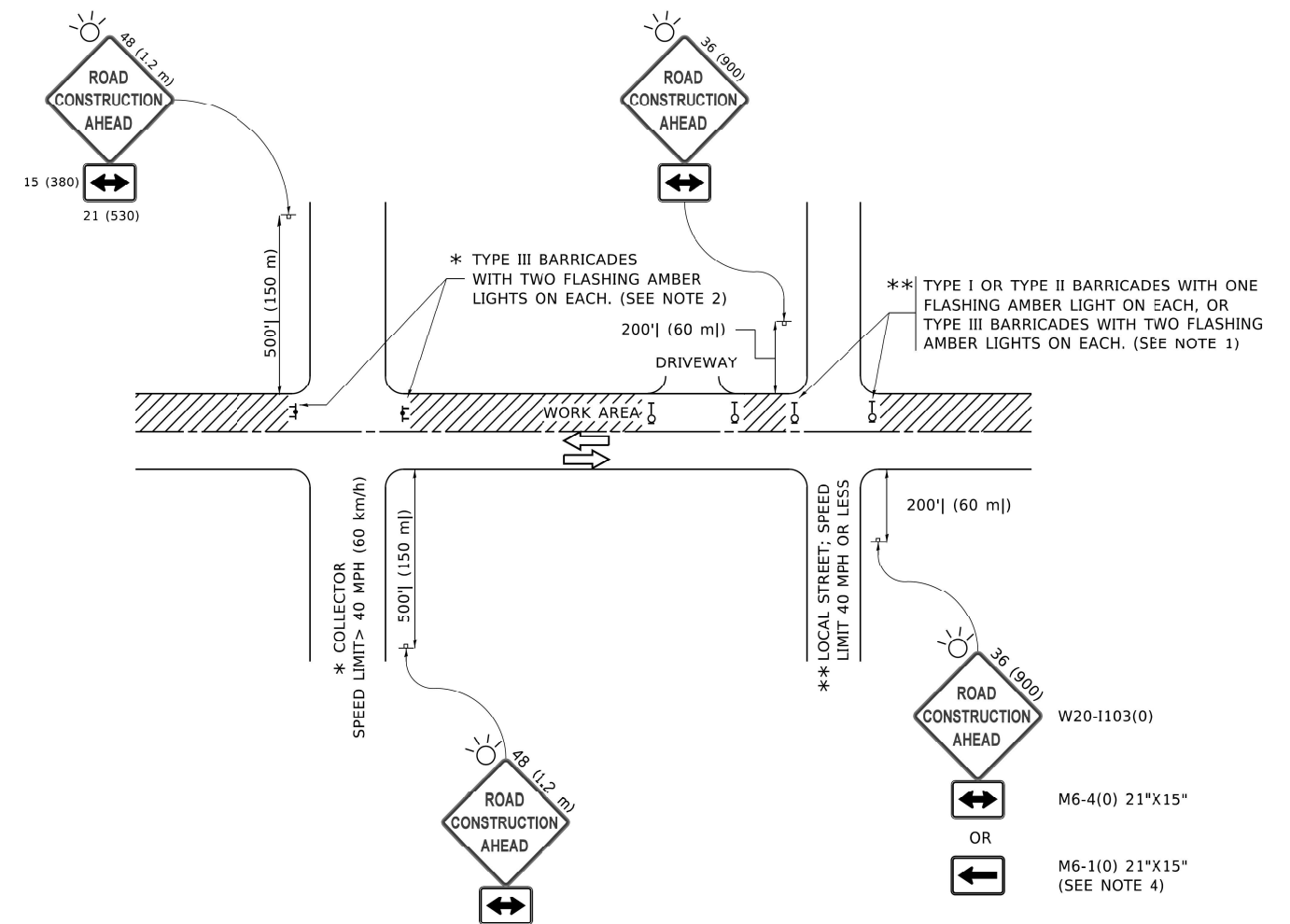
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	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - BUTT JOINT AND HMA TAPER DETAILS (BD-32)

SCALE: NTS TO STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	53
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



NOTES:

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER.
 - ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

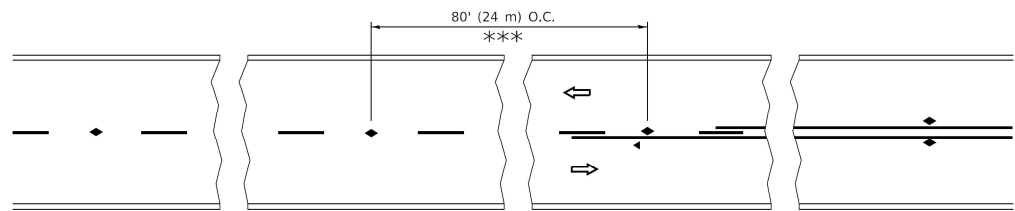
All dimensions are in inches (millimeters) unless otherwise shown.

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INFRASTRUCTURE ENGINEERING <small>1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9598 www.infrastructure-eng.com</small>	USER NAME = Alane	DESIGNED - MLD	REVISED -
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		CHECKED - ACL	REVISED -
		DATE - 12/08/2022	

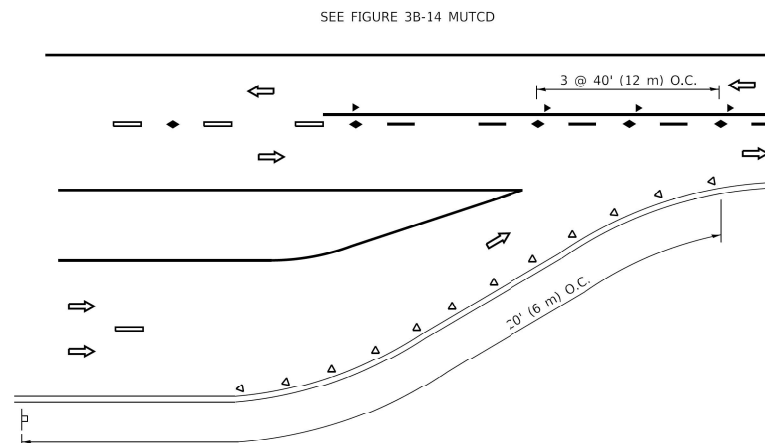
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE – TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SCALE: NTS	STA.	305	2021-048-R5	COOK	61	54
				CONTRACT NO. 62N80		
				ILLINOIS FED. AID PROJECT		

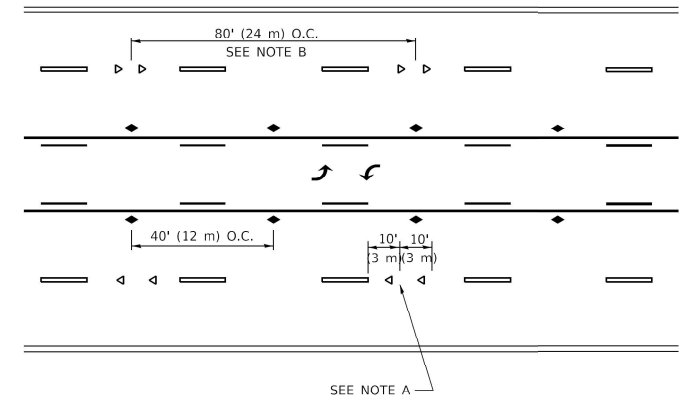


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

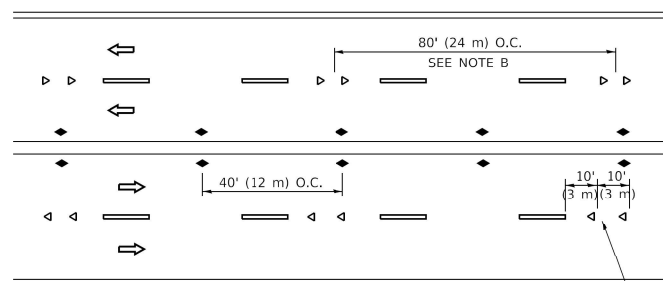
TWO-LANE/TWO-WAY



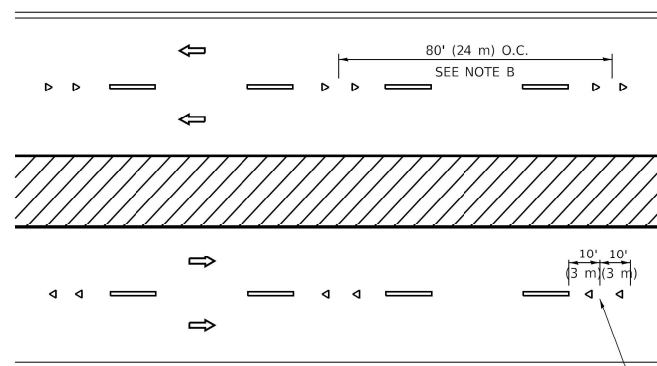
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

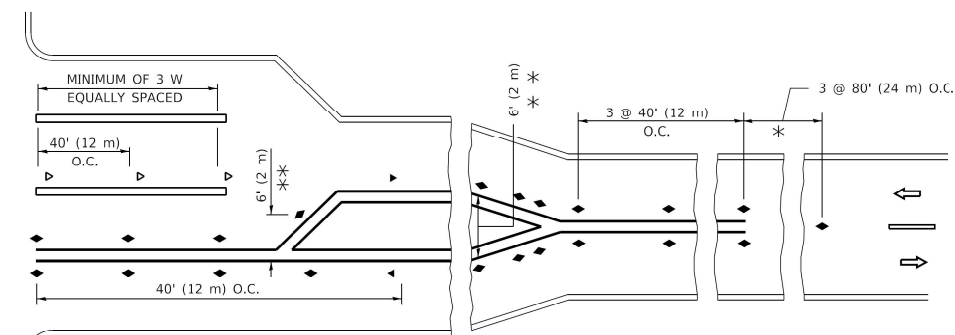
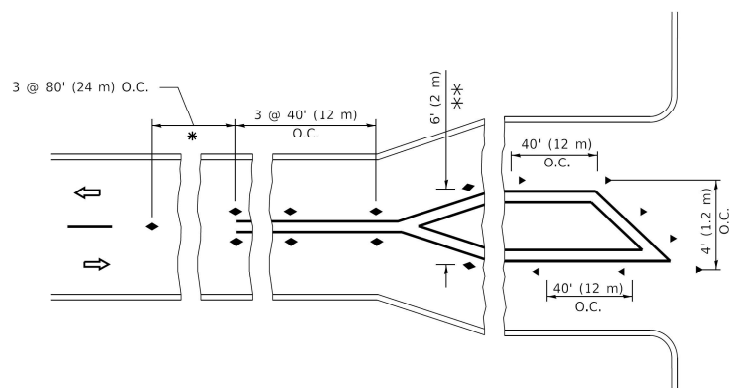
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

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



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

TURN LANES

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

MODEL Path: \\P:\2020\2020-09-04-00 IDOT Vendors Phase 2 (ITB) 106 Item: 1611010-26 62N80\DC\CAD\Drawings\62N80-SHT-STANDARDS-06.dgn

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PLOT SCALE = 20,0000 * / in.	DRAWN - MLD	REVISD -
	CHECKED - ACL	REVISD -
	DATE - 12/08/2022	

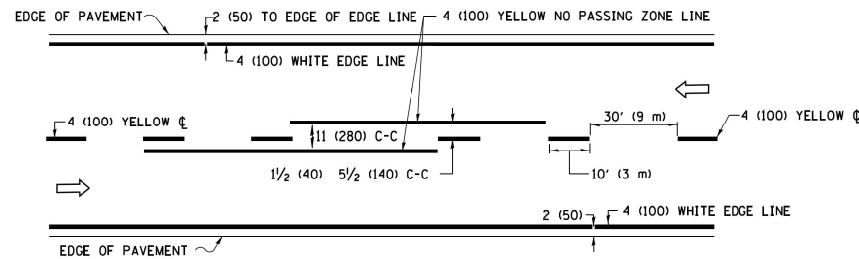
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DEPARTMENT OF TRANSPORTATION	305	2021-048-R5	COOK	61	55
	CONTRACT NO. 62N80				
	ILLINOIS		FED. AID PROJECT		

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

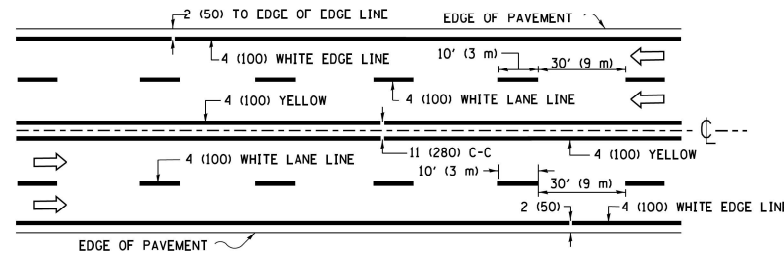
DISTRICT ONE - TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)

SCALE: NTS STA. TO STA.

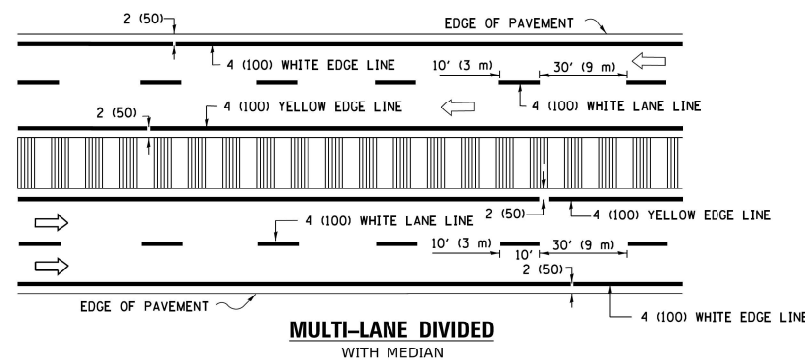
DISTRICT ONE - TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)					
SCALE: NTS	STA.	TO STA.			



2-LANE ROADWAY

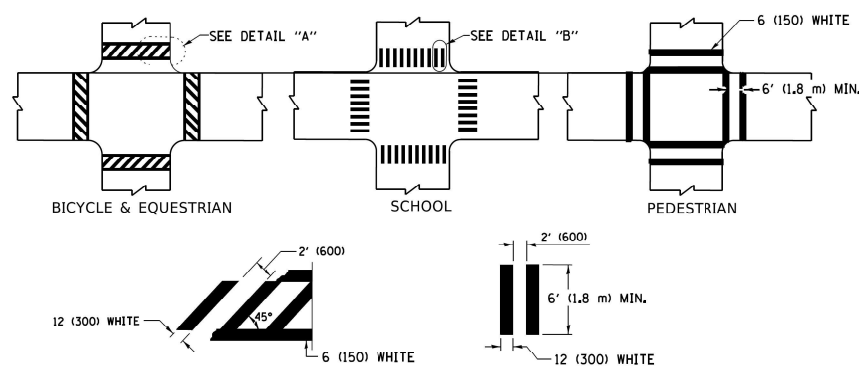


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

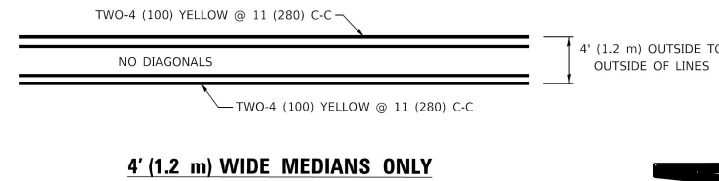


DETAIL "A"

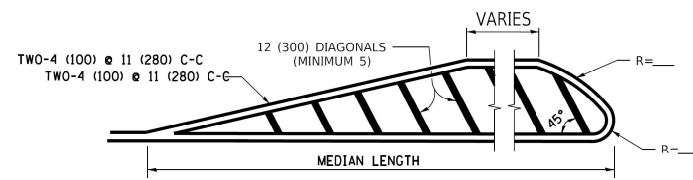
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

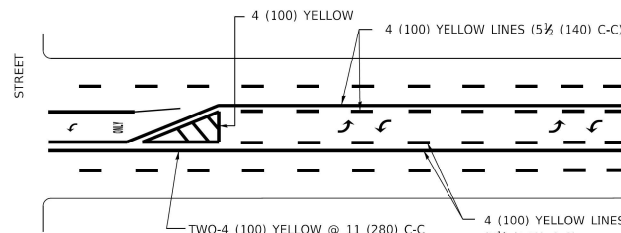


4' (1.2 m) WIDE MEDIANS ONLY



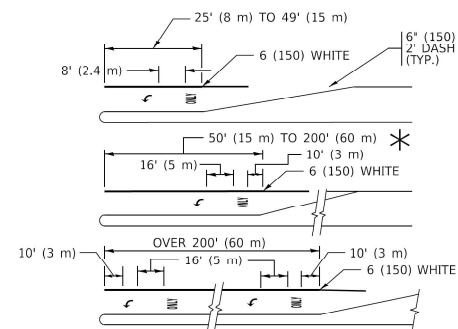
MEDIANS OVER 4' (1.2 m) WIDE

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))



MEDIAN WITH TWO-WAY LEFT TURN LANE

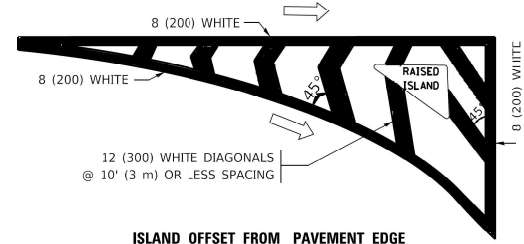
TYPICAL PAINTED MEDIAN MARKING



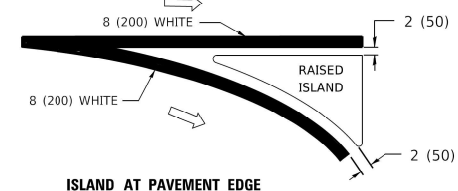
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

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

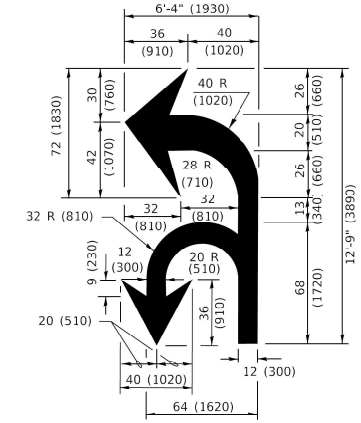


ISLAND OFFSET FROM PAVEMENT EDGE

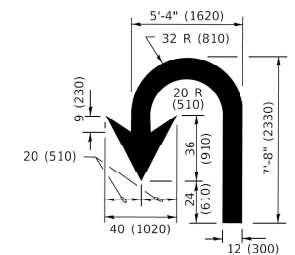


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C C FROM SKIP DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8" (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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 5F
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 5F

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

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

MODEL Pathfull
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USER NAME = Alane
DESIGNED - MLD
DRAWN - MLD
CHECKED - ACL
DATE - 12/08/2022

REVISID -
REVISID -
REVISID -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE - TYPICAL PAVEMENT MARKINGS
(TC-13)**

SCALE: NTS

STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	56
CONTRACT NO. 62N80				
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

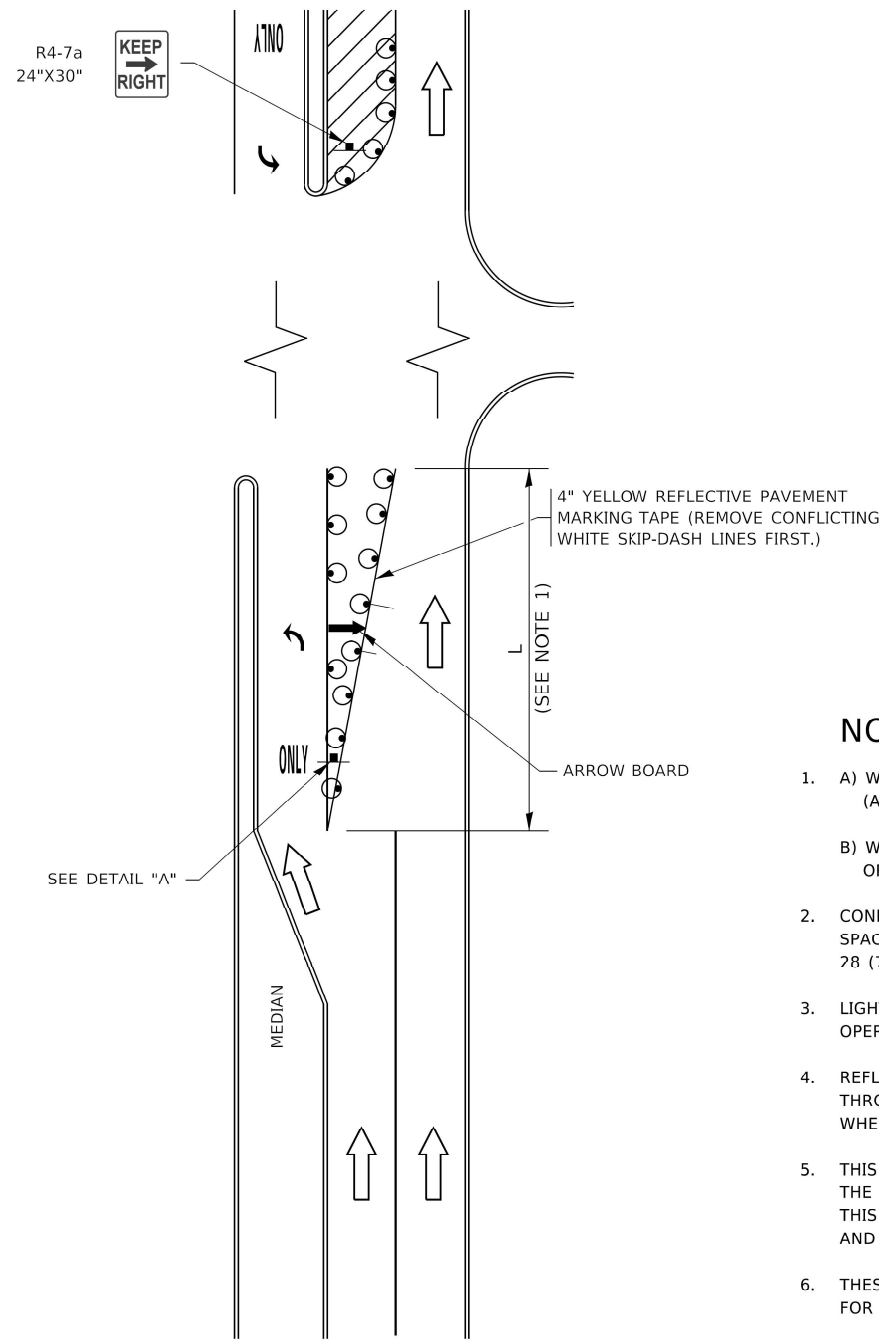


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

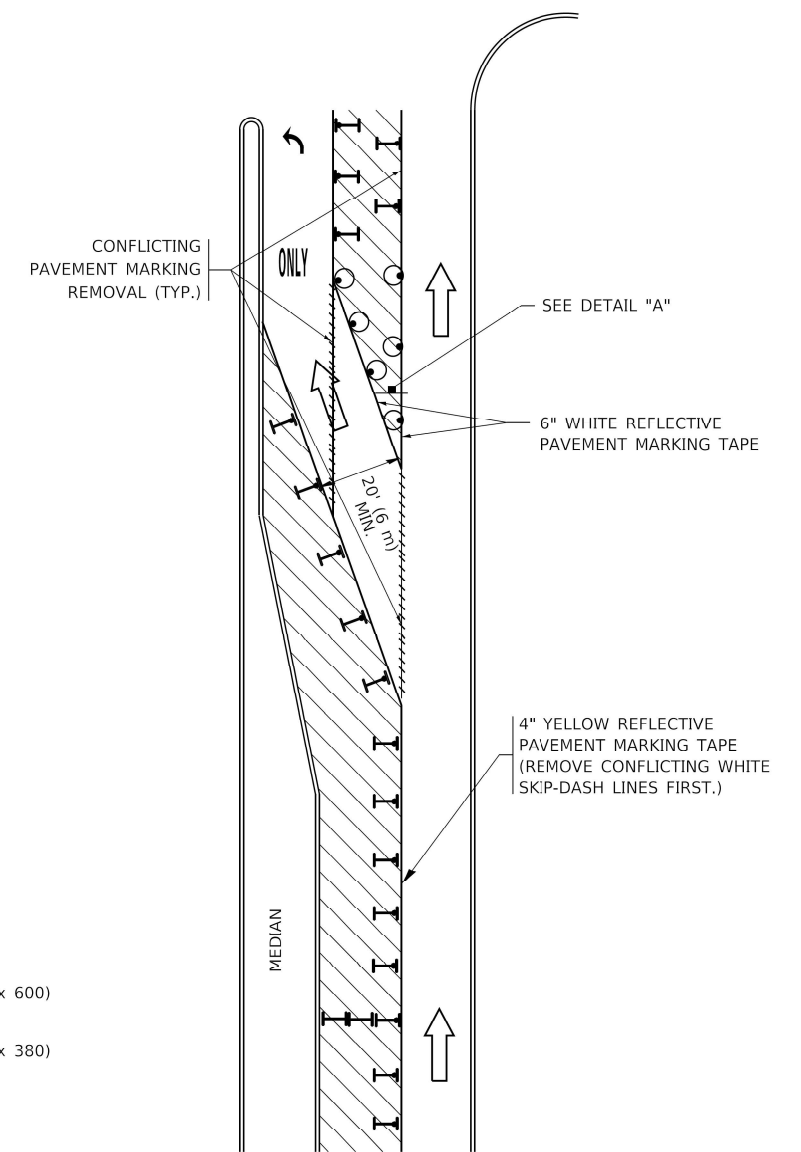
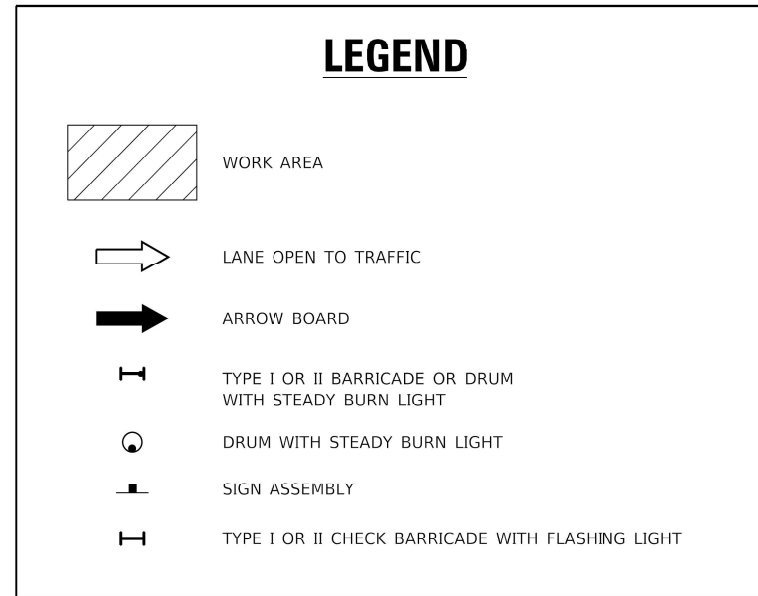
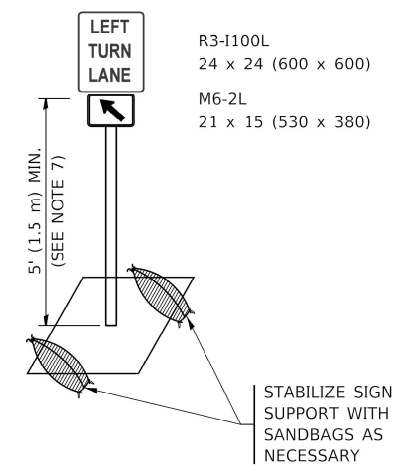


FIGURE 2



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
 B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 78 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

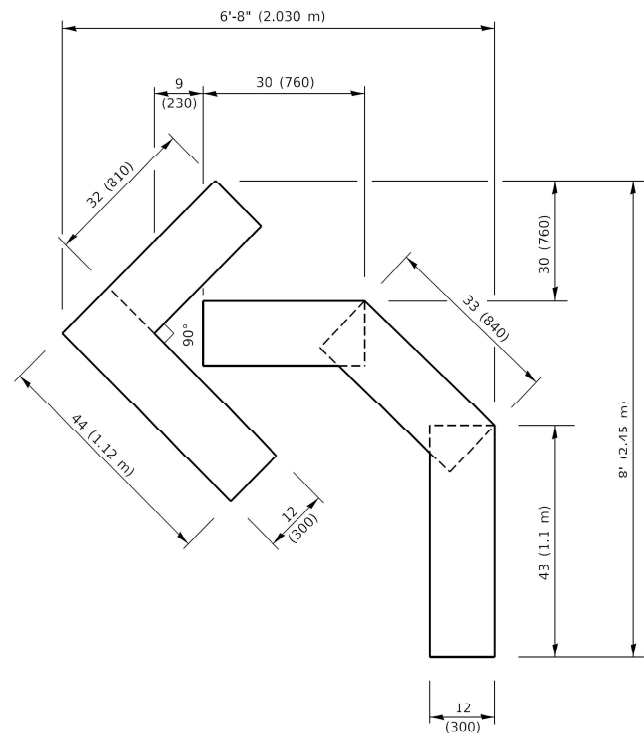


DETAIL A

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

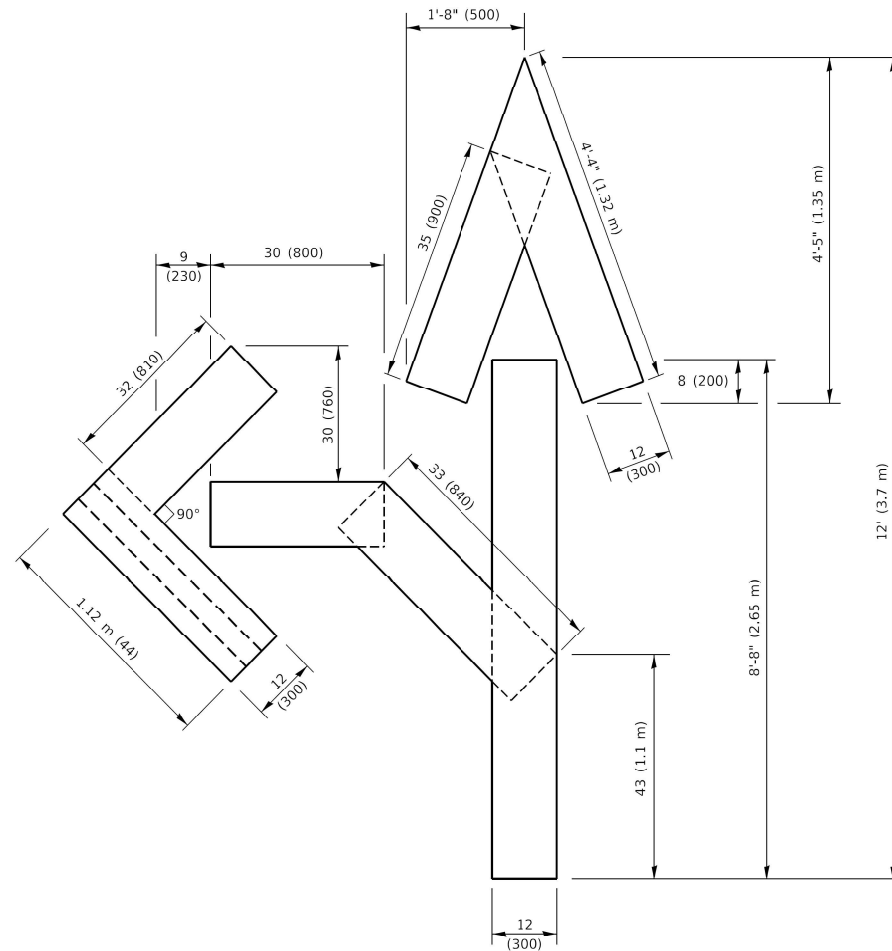
MODEL Path: \\... INFRASTRUCTURE ENGINEERING INCORPORATED

INFRASTRUCTURE ENGINEERING INCORPORATED 1 South Wacker Suite 2650 Chicago, IL 60606 P 312.425.9598 F 312.425.9594 www.infrastructure-eng.com	USER NAME = Alane DESIGNED - MLD DRAWN - MLD CHECKED - ACL DATE - 12/08/2022	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT ONE – TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)	F.A.P. RTE. = 305 SECTION = 2021-048-R5 COUNTY = COOK TOTAL SHEETS = 61 SHEET NO. = 57	CONTRACT NO. 62N80 ILLINOIS FED. AID PROJECT
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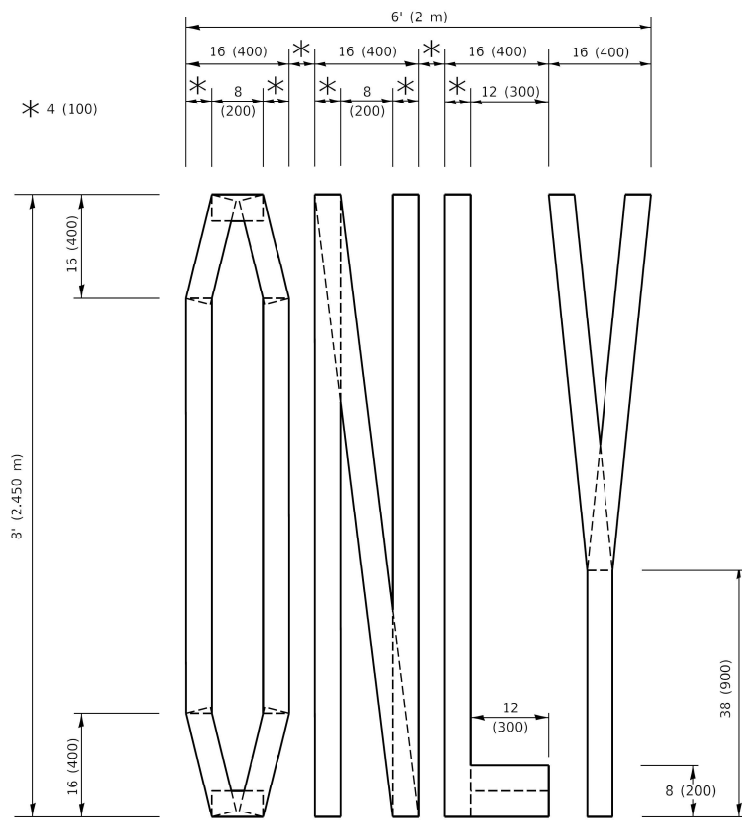
QUANTITY

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



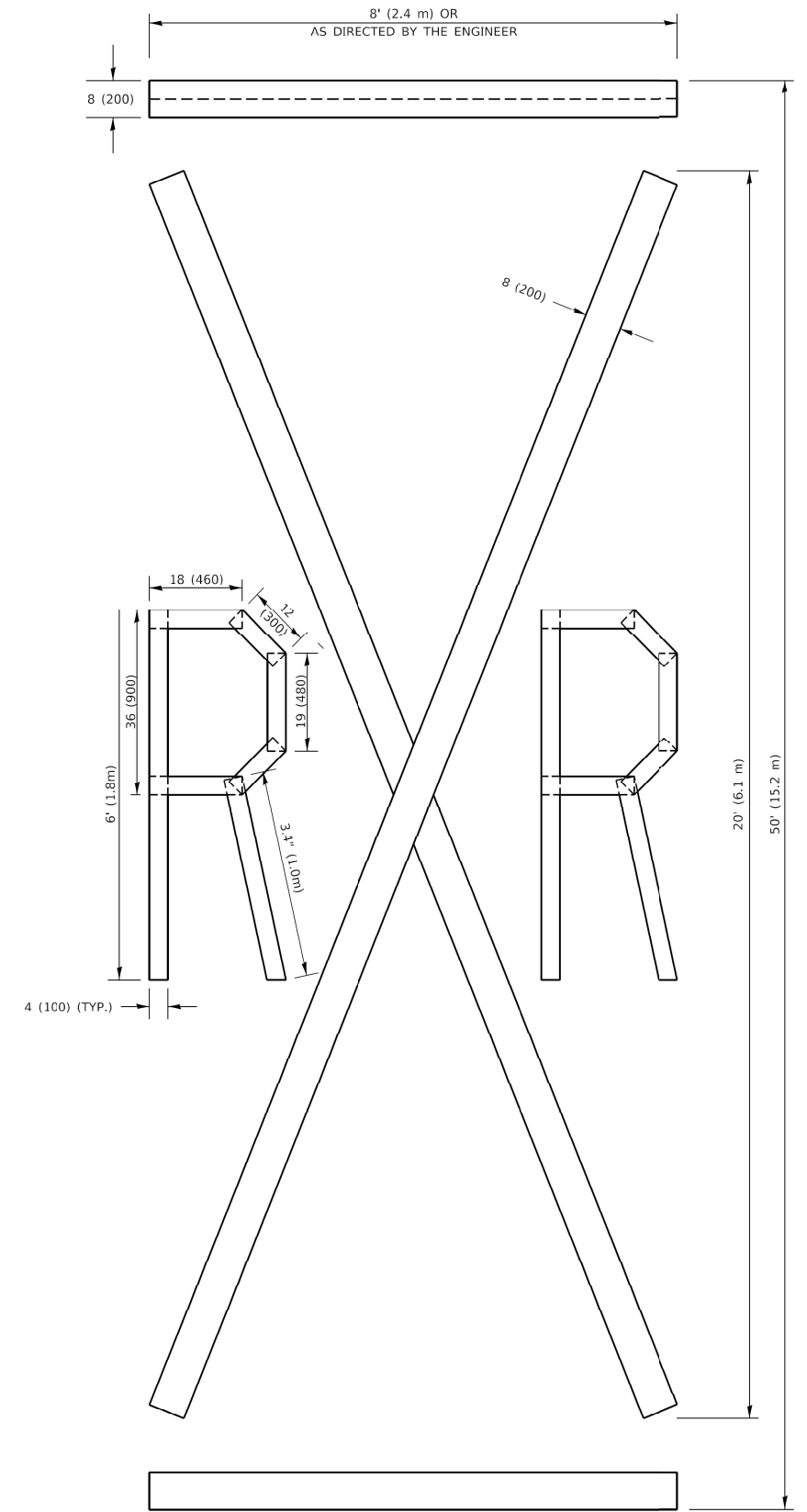
QUANTITY

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



QUANTITY

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



QUANTITY

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

NOTE:

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

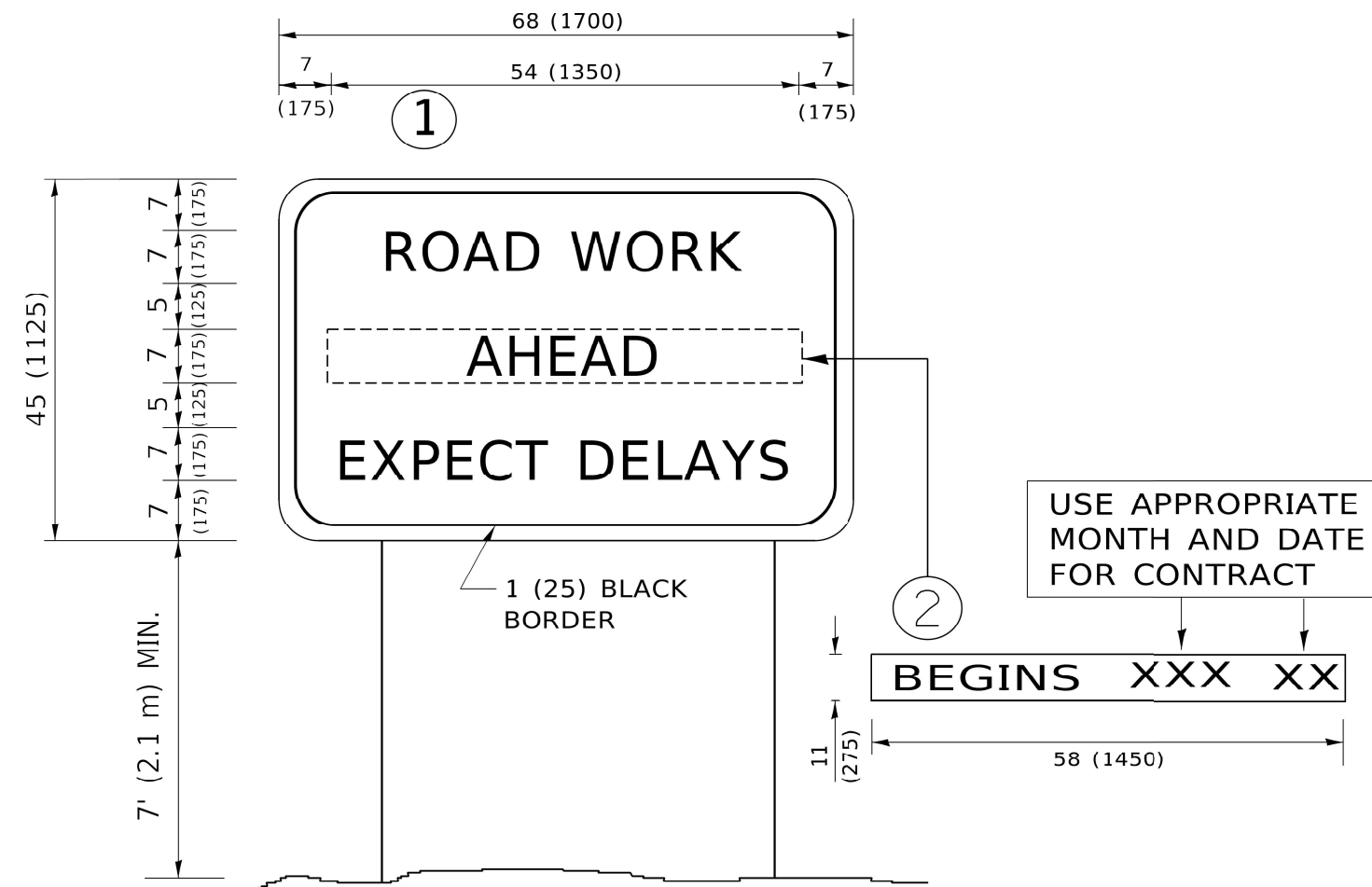
All dimensions are in inches (millimeters) unless otherwise shown.

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PLOT SCALE = 20,0000 * / in.	DRAWN - MLD	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

DISTRICT ONE - SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)	
SCALE: NTS	STA. TO STA.

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 58
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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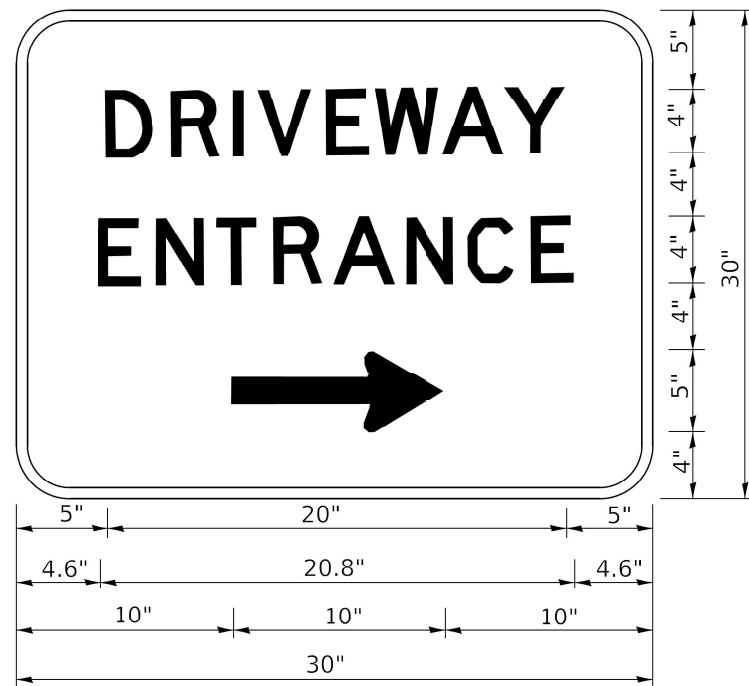
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DRAWN - MLD	REVISED -	
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DATE - 12/08/2022		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE – ARTERIAL ROAD
 INFORMATION SIGN (TC-22)**

SCALE: NTS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	59
CONTRACT NO. 62N80			ILLINOIS FED. AID PROJECT	



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

NOTES:

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

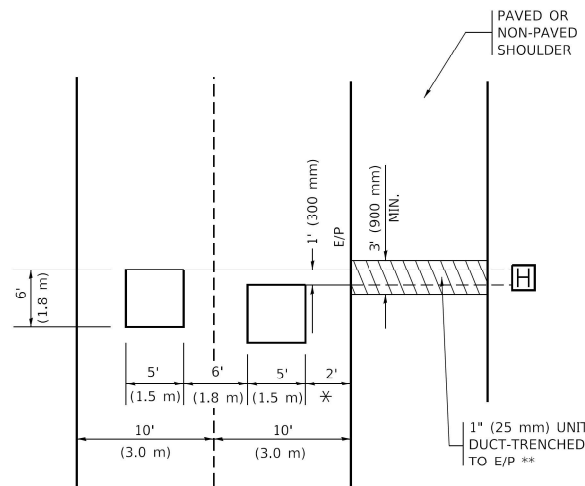
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	DRAWN - MLD	REVISED -
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	DATE - 12/08/2022	

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	2021-048-R5	COOK	61	60
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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

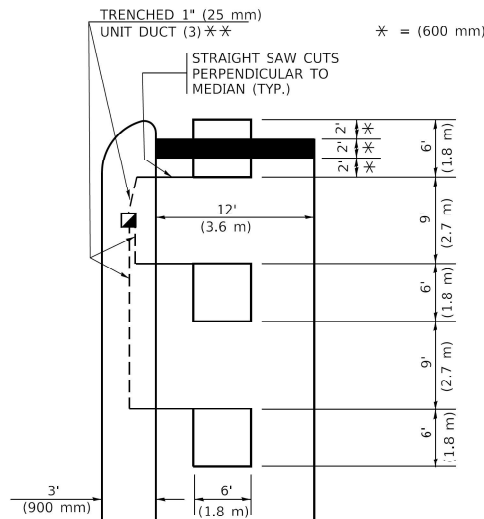


* = (600 mm)

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

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

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

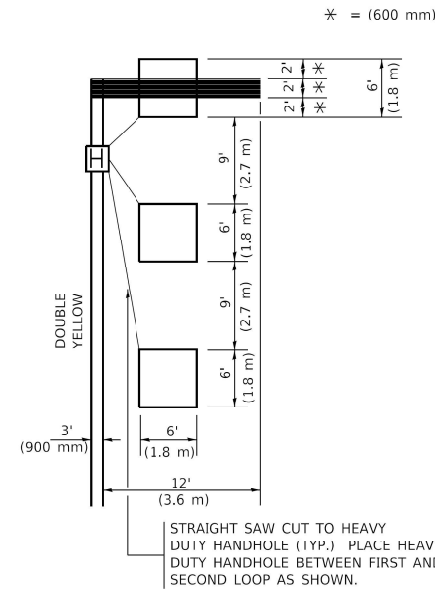


* = (600 mm)

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

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

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



* = (600 mm)

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

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. 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.

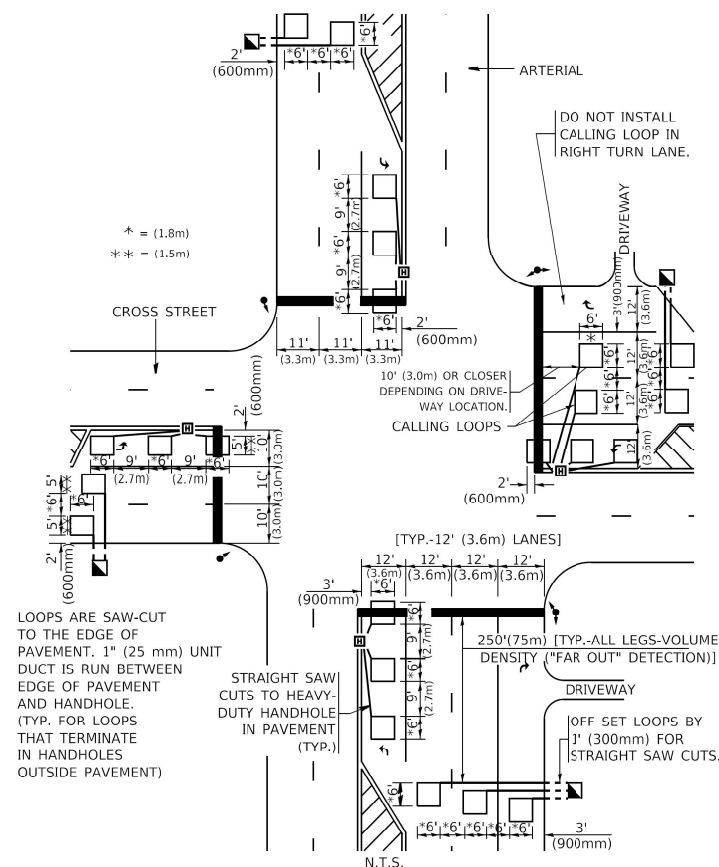
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

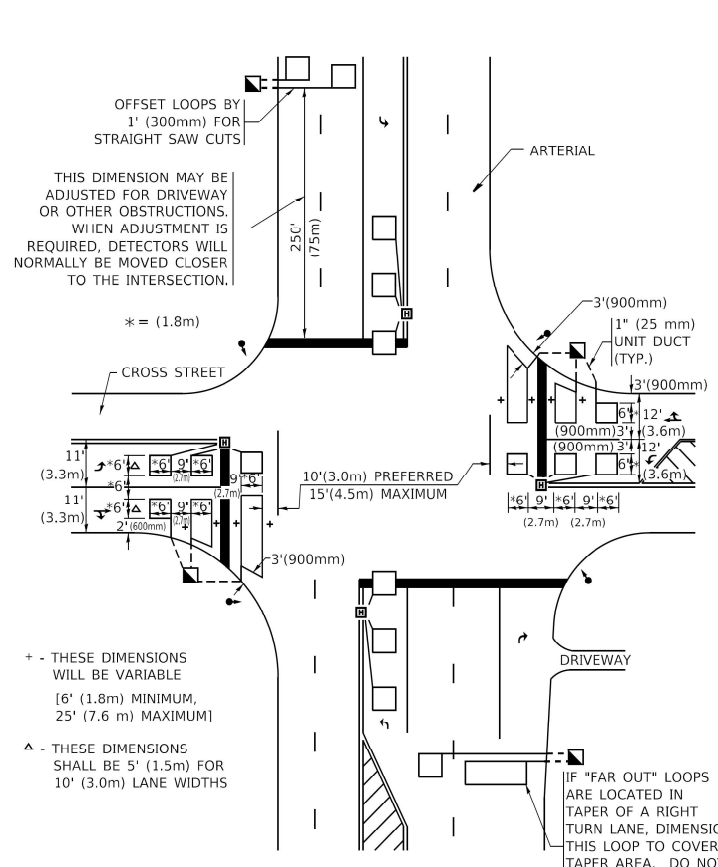
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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
N.T.S.

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PLOT SCALE = 20,0000 * / in.	DRAWN - MLD	REVISED -
	CHECKED - ACL	REVISED -
	DATE - 12/08/2022	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING (TS-07)

F.A.P. RTE. 305	SECTION 2021-048-R5	COUNTY COOK	TOTAL SHEETS 61	SHEET NO. 61
CONTRACT NO. 62N80				
ILLINOIS FED. AID PROJECT				

SCALE: NTS STA. TO STA.