

F. A. D. DIST.	SECTION	COUNTY	TOWNSHIP	SHEET NO.
400	21-00057-00-RS	GRUNDY	21	1
STA.		TO STA.		
		ALIGNED		CONTRACT #87782

11-05-2021 LETTING ITEM 077

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

INDEX OF SHEETS
SEE SHEET NO. 2

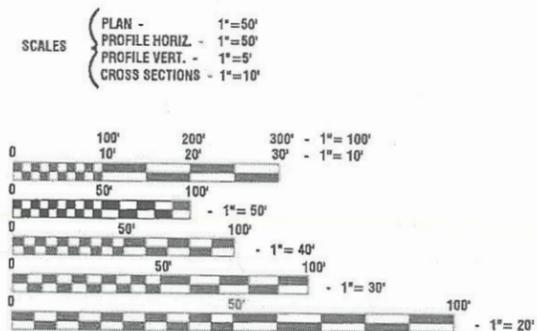
HIGHWAY STANDARDS
SEE SHEET NO. 2

FAU 400 MINOOKA ROAD
(TABLER ROAD TO RIDGE ROAD)
ROADWAY RESURFACING
SECTION NO.: 21-00057-00-RS
PROJECT NO.: 2YJC (363)
JOB NO.: C-93-027-22
VILLAGE of MINOOKA
GRUNDY COUNTY

MINOOKA ROAD	
2019 ADT -	6,500
2040 ADT -	6,500
POSTED SPEED LIMIT -	45 MPH
FUNCTIONAL CLASSIFICATION -	MAJOR COLLECTOR



BEGINNING OF IMPROVEMENTS
EAST MINOOKA ROAD STA 500+18



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.

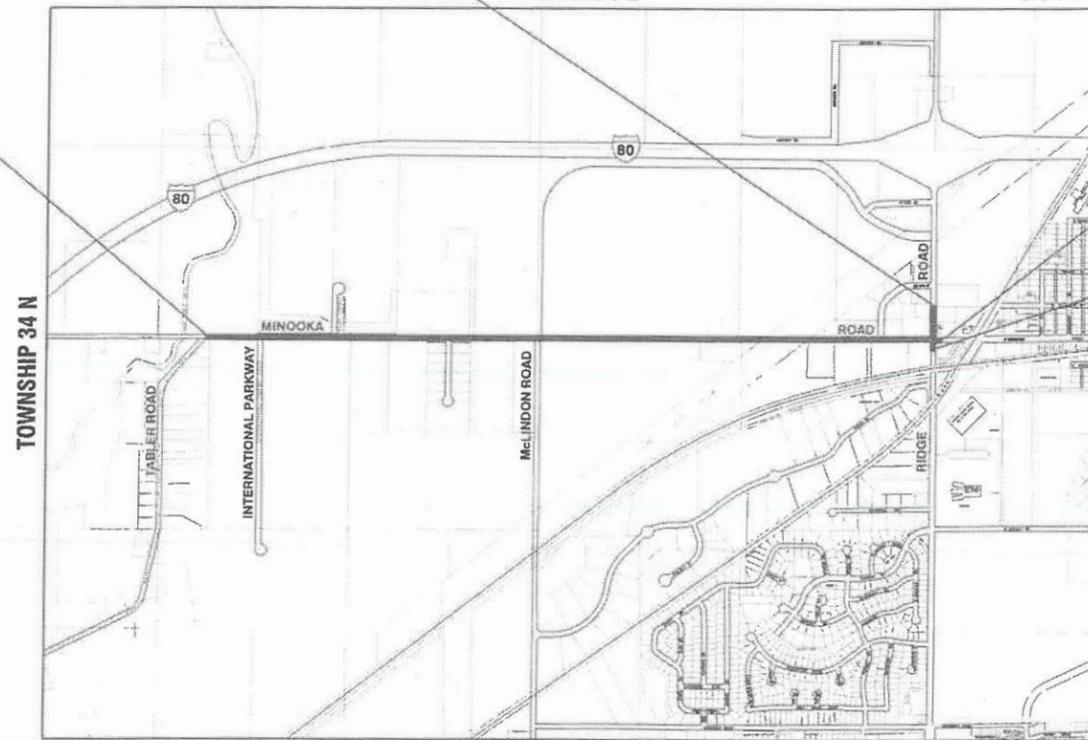
J. U. L. I. E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123 or 811

CONTRACT NO. 87782

END OF IMPROVEMENTS
RIDGE ROAD STA 403+50

RANGE 8 E

3rd PM



TROY TOWNSHIP

LOCATION MAP

SCALE: N.T.S.

- INDICATES PROPOSED IMPROVEMENT
GROSS AND NET LENGTH= 10,649 FEET= 2.02 MILES



END OF IMPROVEMENTS
WEST MONDAMIN STREET STA 602+20

END OF IMPROVEMENTS
RIDGE ROAD STA 399+25



PREPARED BY OR UNDER THE
DIRECT SUPERVISION OF
Henry L. Gilmore, Jr.
08-27-2021

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>Frederic J. O'Connell</i> VILLAGE PRESIDENT, VILLAGE OF MINOOKA
PASSED	SEPTEMBER 3, 2021 <i>[Signature]</i> DISTRICT 3 ENGINEER OF LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	SEPTEMBER 3, 2021 <i>[Signature]</i> REGIONAL ENGINEER

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OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: STEVE CHERY, DISTRICT 3, OTTAWA, IL
CONSULTANTS: ROBINSON ENGINEERING, LTD. 708-331-6700

INDEX OF SHEETS

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4. TYPICAL SECTIONS
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- 9.-12. PAVEMENT MARKING & SIGNING PLAN
- 13.-16. DISTRICT 3 - DETAILS
17. STANDARD TRAFFIC SIGNAL GENERAL NOTES
- 18.-20. STANDARD TRAFFIC SIGNAL DETAILS
21. PROPOSED TRAFFIC SIGNAL PLAN

HIGHWAY STANDARDS

- 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
- 424001-11 PERPENDICULAR CURB RAMPS
- 424006-05 DIAGONAL CURB RAMPS FOR SIDEWALKS
- 424011-04 CORNER PARALLEL CURB RAMPS FOR SIDEWALK
- 424021-05 DEPRESSED CORNER FOR SIDEWALKS
- 442201-03 CLASS C AND D PATCHES
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- 606001-07 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
- 630001-12 STEEL PLATE BEAM GUARDRAIL
- 630201-07 PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
- 630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
- 701011-04 OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
- 701101-05 OFF-ROAD OPERATIONS, MULTILANE, 15'(4.5m) TO 24"(600mm) FROM PAVEMENT EDGE
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
- 701701-10 URBAN LANE CLOSURE, MULTILANE INTERSECTION
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- 720001-01 SIGN PANEL MOUNTING DETAILS
- 720006-04 SIGN PANEL ERECTION DETAILS
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPE A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-05 TYPICAL PAVEMENT MARKINGS
- 781001-04 TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
- 814001-03 HANDHOLES
- 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
- 876001-04 PEDESTRIAN PUSH BUTTON POST
- 878001-11 CONCRETE FOUNDATION DETAILS

GENERAL NOTES

1. THE ROBINSON ENGINEERING, LTD. FIELD OFFICE (708-331-6700), AND THE PUBLIC WORKS DIRECTOR, AT THE VILLAGE OF MINOOKA, SHALL BE NOTIFIED TWO (2) WORKING DAYS BEFORE CONSTRUCTION BEGINS.
2. BEFORE STARTING ANY EXCAVATION THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 AND (312) 744-7000 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. (48 HOUR NOTIFICATION REQUIRED)
3. UTILITIES INDICATED ON THE PLANS ARE PROVIDED FOR THE CONTRACTOR'S USE AND ARE BASED UPON INFORMATION AVAILABLE AT THE TIME OF THE ADVERTISEMENT FOR BIDS. THE OWNER AND ENGINEER DO NOT GUARANTEE THE ACCURACY OF UTILITY INFORMATION.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
5. THE THICKNESS OF HMA MIXTURE STATED IN THE SPECIFICATIONS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA SURFACE IS PLACED.
6. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTERS OR OTHER DRAINAGE STRUCTURES SHALL BE REMOVED BY THE END OF EACH DAY BY THE CONTRACTOR.
7. CLASS D PATCHING QUANTITIES FOR THIS CONTRACT SHALL BE PERFORMED AT THE DIRECTION OF THE ENGINEER AFTER PAVEMENT MILLING.
8. DURING CONSTRUCTION EXISTING TREES LOCATED WITHIN PROJECT LIMITS. CONTRACTOR SHOULD ERECT TREE PROTECTION AROUND DESIGNATED TREES; AVOID VEHICULAR TRAFFIC OR PARKING IN THESE RESTRICTED AREAS, AND PROHIBIT MATERIAL STORAGE, GRADING, AND DUMPING OF CHEMICALS AND OTHER MATERIALS IN RESTRICTED AREAS.
9. NO PAVEMENT PATCHING SHALL BE PERMITTED AFTER FRIDAY AT 3:00 PM OF EACH AND EVERY WEEK AND NO HOLES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT OR OVER THE WEEKEND.
10. ALL EQUIPMENT SHALL BE REMOVED OFF THE VILLAGE STREETS DURING ALL HOLIDAY WEEKENDS AS COORDINATED WITH THE VILLAGE.
11. EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.
12. BEGINNING ON THE DATE THAT WORK BEGINS ON THIS PROJECT, THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR NORMAL MAINTENANCE OF ALL EXISTING ROADWAYS WITHIN THE LIMITS OF THE IMPROVEMENT. THIS NORMAL MAINTENANCE SHALL INCLUDE ALL REPAIR WORK DEEMED NECESSARY BY THE ENGINEER, BUT SHALL NOT INCLUDE SNOW REMOVAL OPERATIONS. THIS ITEM SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDER AS PART OF THE VARIOUS TRAFFIC CONTROL AND/OR MOBILIZATION PAY ITEMS.
13. ALL SIGNS SHALL HAVE TYPE ZZ RETROREFLECTIVE SHEETING. ALL WARNING SIGNS SHALL BE FLUORESCENT YELLOW.
14. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS/CU YD
HMA RESURFACING	112	LBS/SQ YD/IN
SHORT TERM PAVEMENT MARKING	10	FT/100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS/SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS/SQ YD
SUPPLEMENTAL WATERING	3	GAL/SQ YD/APPLICATION
CALCIUM CHLORIDE	2	LB/SQ YD/APPLICATION
AGGREGATE DITCH CHECKS	5	TONS AGGREGATE

FILE NAME = 20R0319-INDX-01 - P01	USER NAME =	DESIGNED -- GLA	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MINOOKA ROAD ROADWAY RESURFACING INDEX OF SHEETS & STATE STANDARDS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- HG	REVISED --				21-00057-00-RS	GRUNDY	21	2		
	PLOT SCALE =	DRAWN -- MD/RG	REVISED --				CONTRACT NO. 87782					
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --		SCALE: NONE	SHEET NO. 2 OF 21 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT 2YJC (363)				

SUMMARY OF QUANTITIES					ROADWAY	
S.P.	S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
△		35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	270	270
		35800200	AGGREGATE BASE REPAIR	TON	45	45
		40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	20	20
		40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	43900	43900
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	210	210
		40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	8200	8200
		40605034	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, MIX "E", N80	TON	7300	7300
△		42300300	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 7 INCH	SQ YD	20	20
△		42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	2420	2420
△		42400800	DETECTABLE WARNINGS	SQ FT	100	100
		44000165	HOT-MIX ASPHALT SURFACE REMOVAL, 4"	SQ YD	65020	65020
		44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	245	245
△		44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	3900	3900
		44000600	SIDEWALK REMOVAL	SQ FT	2420	2420
		44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	182	182
		44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	110	110
		44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	596	596
*		63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	135	135
*		63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	1	1
		63200310	GUARDRAIL REMOVAL	FOOT	160	160
		67100100	MOBILIZATION	LSUM	1	1
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
		70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	5287	5287
*		78003100	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS	SQ FT	676	676
*		78003110	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"	FOOT	27535	27535
*		78003130	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"	FOOT	2730	2730
*		78003150	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"	FOOT	1450	1450
*		78003180	PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"	FOOT	307	307
		78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	741	741
*		81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	21	21
*		85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1
*		87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	159	159
		87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	159	159
*		87600100	PEDESTRIAN PUSH-BUTTON POST, TYPE I	EACH	1	1
*		87800100	CONCRETE FOUNDATION, TYPE A	FOOT	16	16
*		87900200	DRILL EXISTING HANDHOLE	EACH	1	1
△	*	88800100	PEDESTRIAN PUSH-BUTTON	EACH	1	1
△	*	89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1	1
△	*	X0325714	FLASHING BEACON, POST MOUNTED, SOLAR POWERED INSTALLATION	EACH	2	2
△		X2110104	TOPSOIL FURNISH AND PLACE, 4" (SPECIAL)	SQ YD	950	950
△		X2520650	SODDING, SALT TOLERANT (SPECIAL)	SQ YD	950	950
△	*	X5619210	WATER VALVES TO BE ADJUSTED SPECIAL	EACH	22	22
△		X6026056	SANITARY MANHOLES TO BE ADJUSTED WITH NEW TYPE 1 FRAME, CLOSED LID	EACH	1	1
△		X6026624	VALVE BOXES TO BE ADJUSTED (SPECIAL)	EACH	10	10

△ - INDICATES SPECIAL PROVISIONS
* - INDICATES SPECIALTY ITEMS

SUMMARY OF QUANTITIES					ROADWAY	
S.P.	S.I.	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE
△		X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	104	104
△		X6064200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL)	FOOT	3900	3900
△		X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	1762	1762
△	*	X7030078	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	1450	1450
△	*	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	741	741
△	*	X7830060	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	676	676
△	*	X7830070	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	27535	27535
△	*	X7830074	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	3600	3600
△	*	X7830090	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	307	307
△		XX007776	REMOVE AND ABANDON VALVE BOX	EACH	1	1
△		Z0004514	HOT-MIX ASPHALT DRIVEWAY PAVEMENT, 4"	SQ YD	225	225
△		Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	5	5
△		Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	52	52
△		Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	31793	31793
△		Z0034105	MATERIAL TRANSFER DEVICE	TON	8438	8438

SCHEDULE OF PAVEMENT MARKING QUANTITIES

RECESSED REFLECTIVE PAVEMENT MARKINGS		
STATION	EACH	REMARKS
LT & RT STA 499+50 TO STA 526+00	140	
LT & RT STA 526+00 TO STA 552+00	215	
LT & RT STA 552+00 TO STA 578+00	209	
LT & RT STA 578+00 TO STA 602+20	177	
PROJECT TOTAL	741	
X7810300		

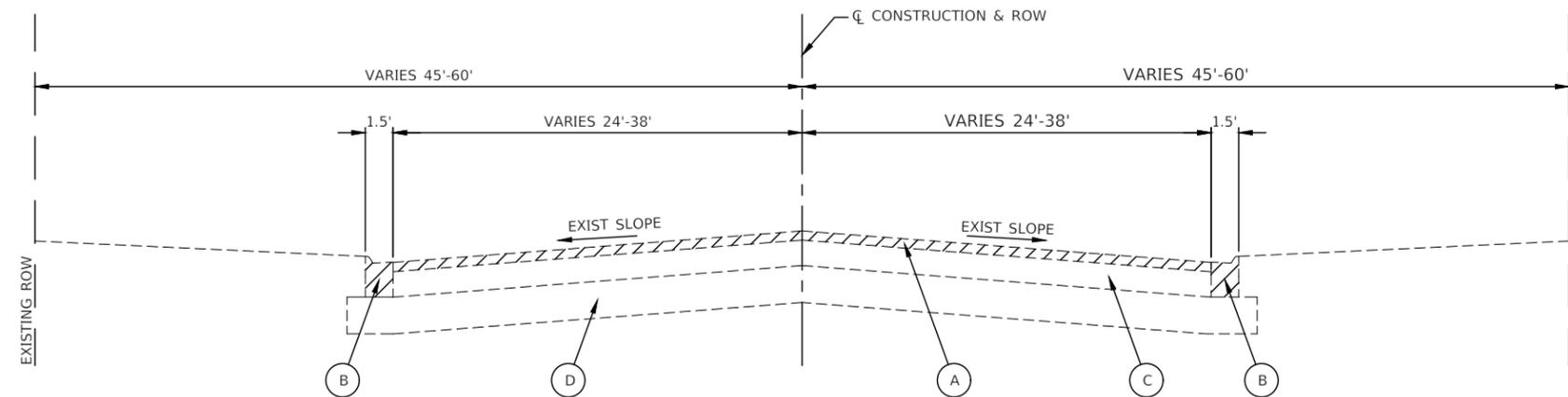
PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 12"		
STATION	FOOT	REMARKS
LT & RT STA 499+50 TO STA 526+00	50	
LT & RT STA 526+00 TO STA 552+00	165	
LT & RT STA 552+00 TO STA 578+00	150	
LT & RT STA 578+00 TO STA 602+20	1085	
PROJECT TOTAL	1450	
78003150		

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 4"		
STATION	FOOT	REMARKS
LT & RT STA 499+50 TO STA 526+00	5742	
LT & RT STA 526+00 TO STA 552+00	7266	
LT & RT STA 552+00 TO STA 578+00	7572	
LT & RT STA 578+00 TO STA 602+20	6955	
PROJECT TOTAL	27,535	
78003110		

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 24"		
STATION	FOOT	REMARKS
LT & RT STA 499+50 TO STA 526+00	0	
LT & RT STA 526+00 TO STA 552+00	177	
LT & RT STA 552+00 TO STA 578+00	0	
LT & RT STA 578+00 TO STA 602+20	130	
PROJECT TOTAL	307	
78003180		

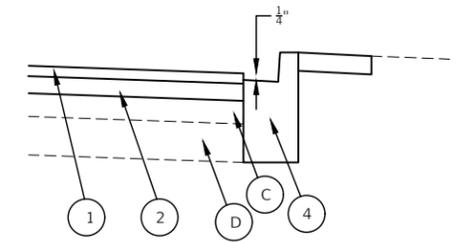
PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LINE 6"		
STATION	FOOT	REMARKS
LT & RT STA 499+50 TO STA 526+00	0	
LT & RT STA 526+00 TO STA 552+00	1530	
LT & RT STA 552+00 TO STA 578+00	105	
LT & RT STA 578+00 TO STA 602+20	1095	
PROJECT TOTAL	2,730	
78003130		

PREFORMED PLASTIC PAVEMENT MARKING, TYPE B - LETTERS AND SYMBOLS		
STATION	SQ FT	REMARKS
LT & RT STA 499+50 TO STA 526+00	0	
LT & RT STA 526+00 TO STA 552+00	291	
LT & RT STA 552+00 TO STA 578+00	0	
LT & RT STA 578+00 TO STA 602+20	386	
PROJECT TOTAL	676	
78003100		

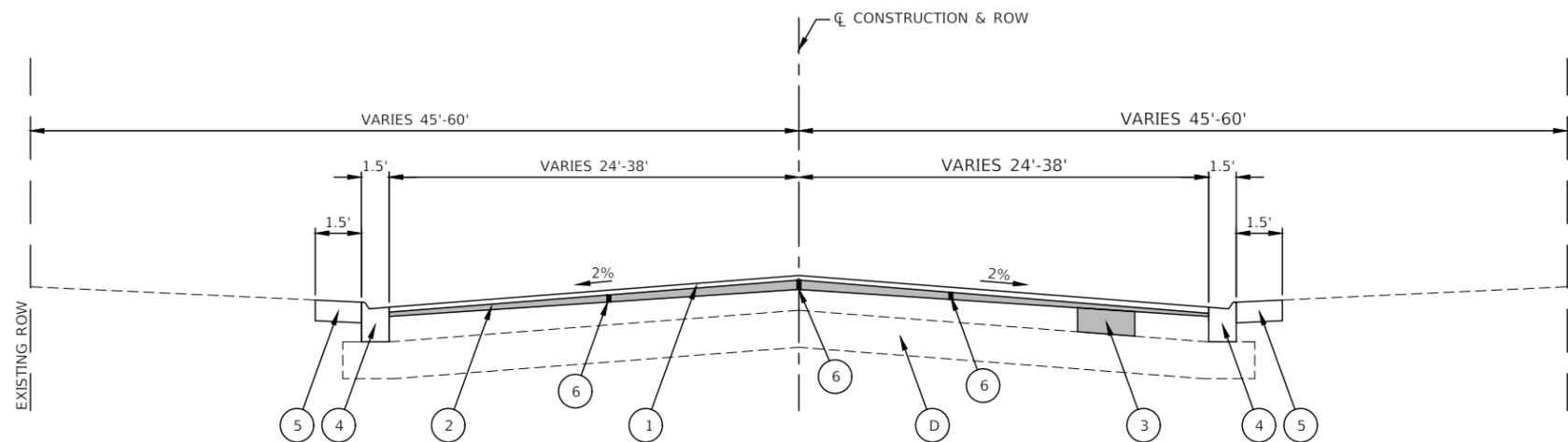


EXISTING TYPICAL SECTION

MINOOKA ROAD
FROM TABLER ROAD TO RIDGE ROAD
STA 500+18 TO STA 601+07



HMA WITH RESPECT TO GUTTER



PROPOSED TYPICAL SECTION

MINOOKA ROAD
FROM TABLER ROAD TO RIDGE ROAD
STA 500+18 TO STA 601+07

EXISTING LEGEND

- (A) HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- (B) EXISTING COMBINATION CURB AND GUTTER REMOVAL (AS SHOWN ON THE PLANS AND AS DIRECTED BY ENGINEER)
- (C) EXISTING HOT-MIX ASPHALT PAVEMENT, VARIES 9.25"-18" (PER PAVEMENT CORES)
- (D) EXISTING AGGREGATE BASE

PROPOSED LEGEND

- (1) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 12.5 MIX "E", N80, 2.0"
- (2) HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 2.25"
- (3) CLASS D PATCHES, 10", AT LOCATIONS SHOWN ON PLANS OR DIRECTED BY ENGINEER
- (4) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 (SPECIAL) (AS SHOWN ON THE PLANS AND AS DIRECTED BY THE ENGINEER)
- (5) TOPSOIL FURNISH AND PLACE, 4" (SPECIAL) AND SODDING, SALT TOLERANT (SPECIAL) AS DIRECTED BY THE ENGINEER.
- (6) LONGITUDINAL JOINT SEALANT

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA BINDER	SMA SURFACE HMA	CLASS D PATCHING
BINDER GRADE (PG):	PG 64-22	SBS PG 76-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N80	4.0% @ N70
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 12.5	IL 19.0
FRICTION AGGREGATE:		MIXTURE E	
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA
SUBLOT SIZE:	NA	NA	NA
DENSITY TEST METHOD:	CORES	CORES	CORES

21-00057-00-RS
MINOOKA ROAD FROM RIDGE ROAD TO TABLER ROAD

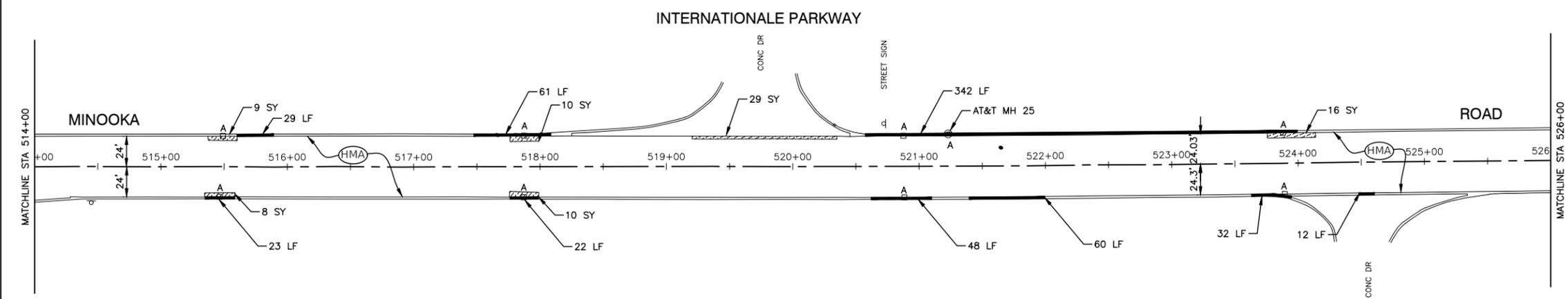
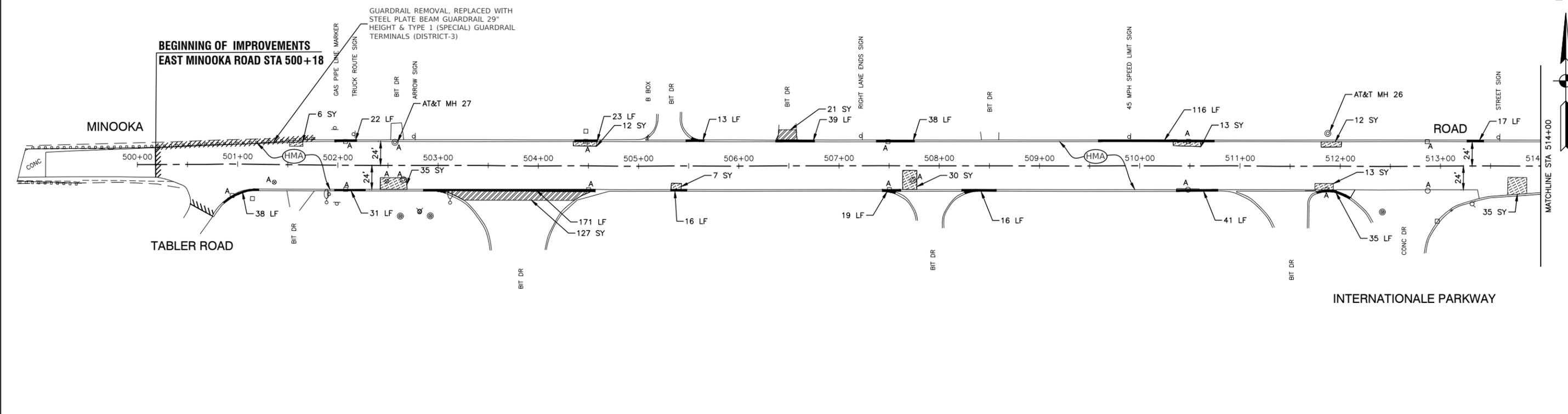
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USER NAME =	DESIGNED -- GLA	REVISED --
	CHECKED -- HG	REVISED --
PLOT SCALE =	DRAWN -- MED/RG	REVISED --
PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MINOOKA ROAD ROADWAY RESURFACING TYPICAL CROSS SECTIONS	
SCALE: NONE	SHEET NO. 4 OF SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	4
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	2YJC (363)	



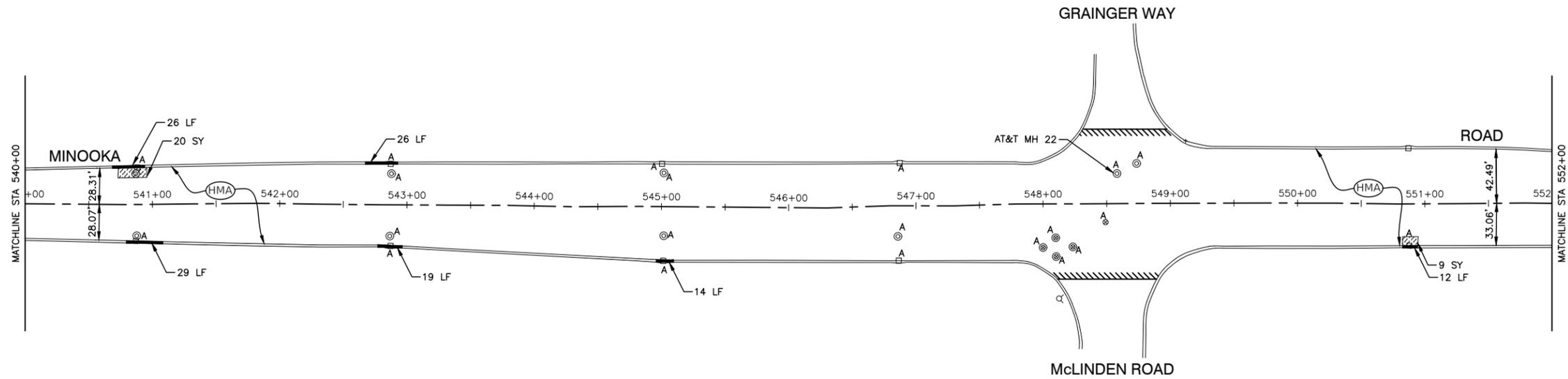
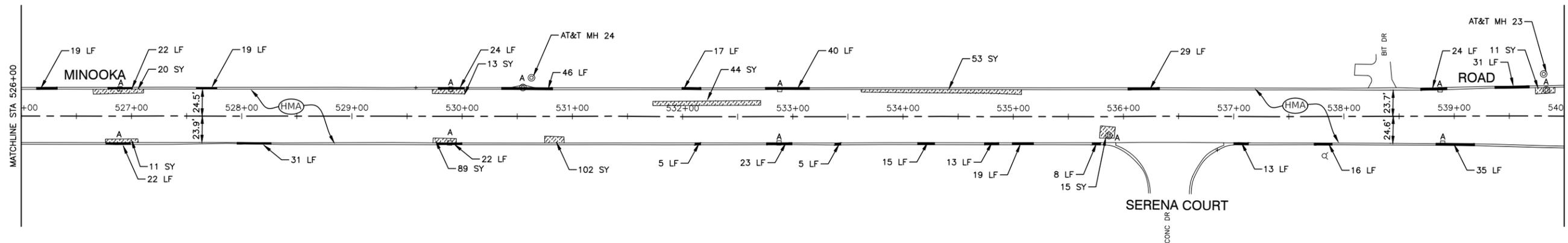
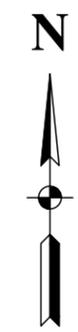
- LEGEND**
- HMA ASPHALT SURFACE REMOVAL, 4" REPLACE WITH POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, N80, 2.0" HMA BINDER COURSE MIX "D", IL9.5 N70, 2.25"
 - CLASS D PATCHES, 10 INCH
 - BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
 - CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
 - SIDEWALK REMOVAL REAPLACE WITH; PCC SIDEWALK 5"
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (IN KIND)
 - HMA SURFACE REMOVAL - BUTT JOINT
 - "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED

FILE NAME = 20R0319-PLAN-01 - P01	USER NAME =	DESIGNED -- GLA	REVISED --
		CHECKED -- HG	REVISED --
	PLOT SCALE =	DRAWN -- MED/RG	REVISED --
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD ROADWAY RESURFACING PAVEMENT PLAN	
SCALE: NONE	SHEET NO. 5 OF 21 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	5
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		



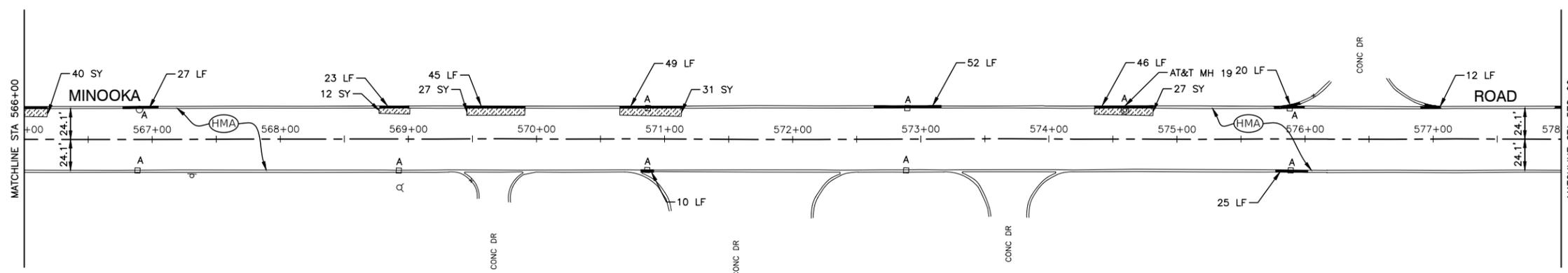
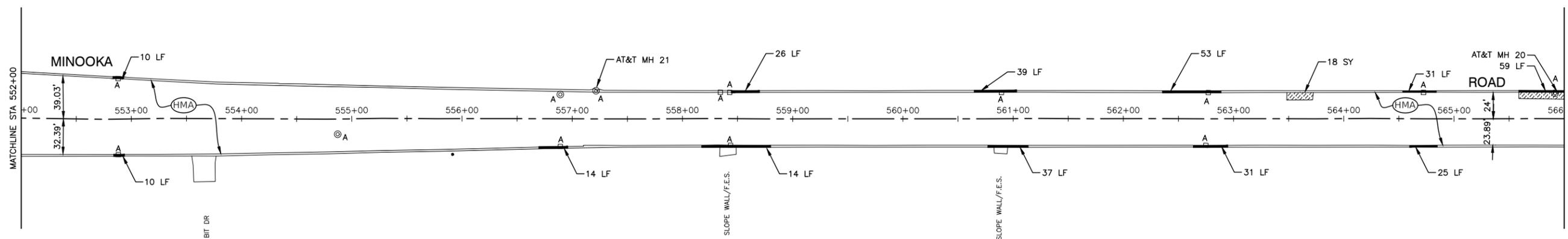
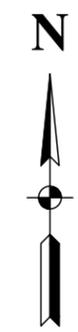
- LEGEND**
- HMA ASPHALT SURFACE REMOVAL, 4" REPLACE WITH POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, N80, 2.0" HMA BINDER COURSE MIX "D", IL9.5 N70, 2.25"
 - CLASS D PATCHES, 10 INCH
 - BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
 - CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
 - SIDEWALK REMOVAL REAPLACE WITH; PCC SIDEWALK 5"
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (IN KIND)
 - HMA SURFACE REMOVAL - BUTT JOINT
 - "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED

FILE NAME = 20R0319-PLAN-01 - P02	USER NAME =	DESIGNED -- GLA	REVISED --
		CHECKED -- HG	REVISED --
	PLOT SCALE =	DRAWN -- MED/RG	REVISED --
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD ROADWAY RESURFACING PAVEMENT PLAN		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			21-00057-00-RS	GRUNDY	21	6
		CONTRACT NO. 87782				
SCALE: NONE	SHEET NO. 6 OF 21 SHEETS	STA.	TO STA.			

FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)
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LEGEND

-  HMA ASPHALT SURFACE REMOVAL, 4" REPLACE WITH POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, N80, 2.0" HMA BINDER COURSE MIX "D", IL9.5 N70, 2.25"
-  CLASS D PATCHES, 10 INCH
-  BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
-  CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
-  SIDEWALK REMOVAL REAPLACE WITH; PCC SIDEWALK 5"
-  COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (IN KIND)
-  HMA SURFACE REMOVAL - BUTT JOINT
- "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED

FILE NAME = 20R0319-PLAN-01 - P03

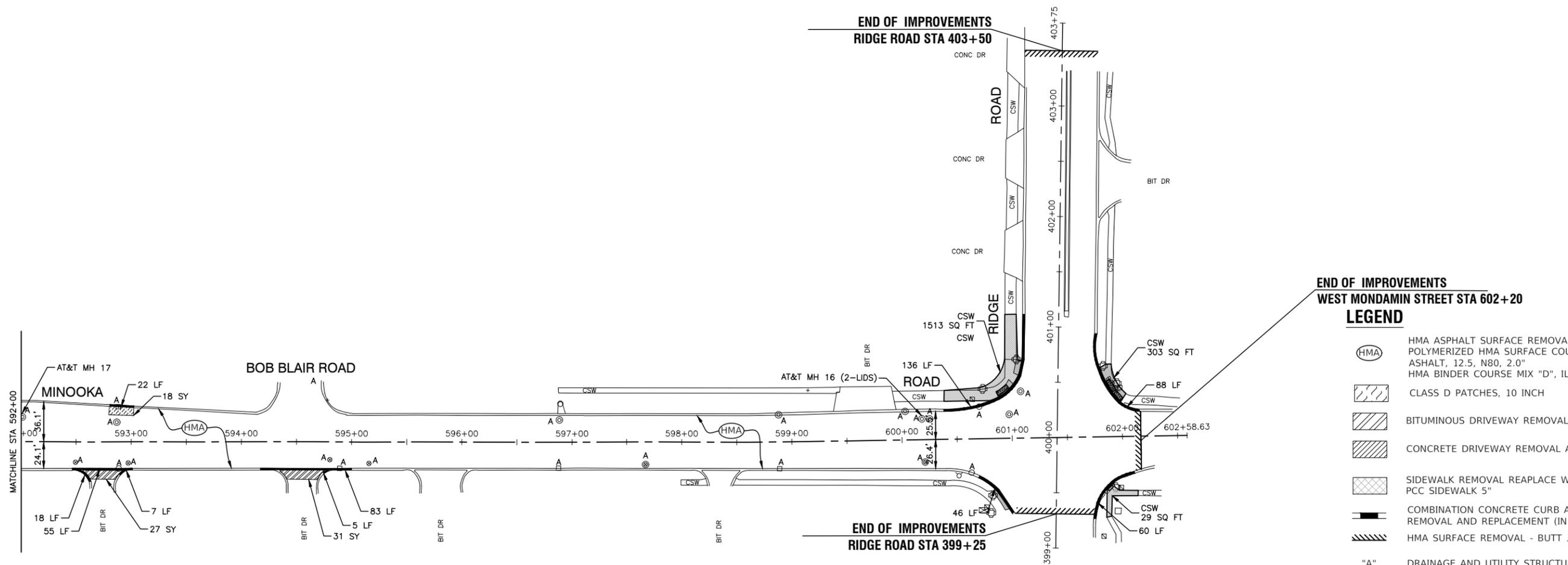
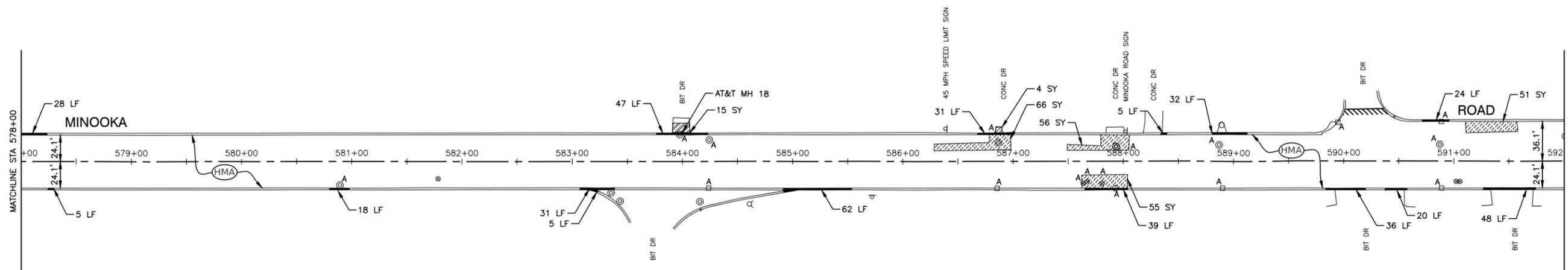
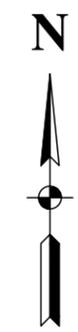
USER NAME =	DESIGNED -- GLA	REVISED --
	CHECKED -- HG	REVISED --
PLOT SCALE =	DRAWN -- MED/RG	REVISED --
PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MINOOKA ROAD
ROADWAY RESURFACING
PAVEMENT PLAN**

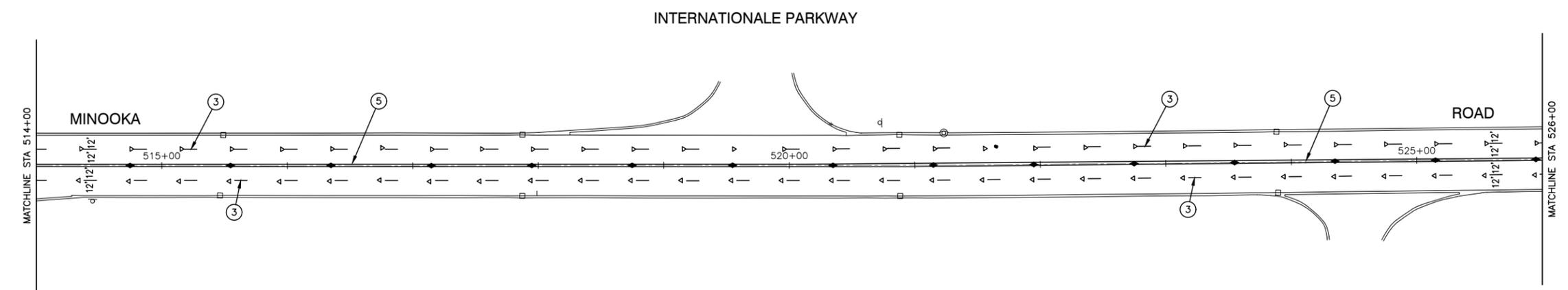
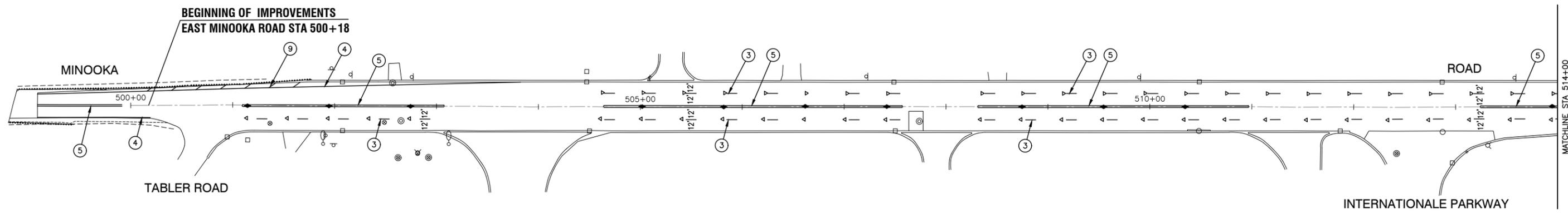
SCALE: NONE SHEET NO. 7 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	7
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		



- END OF IMPROVEMENTS
WEST MONDAMIN STREET STA 602+20**
- LEGEND**
- HMA ASPHALT SURFACE REMOVAL, 4" REPLACE WITH POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 12.5, N80, 2.0" HMA BINDER COURSE MIX "D", IL9.5 N70, 2.25"
 - CLASS D PATCHES, 10 INCH
 - BITUMINOUS DRIVEWAY REMOVAL AND REPLACEMENT
 - CONCRETE DRIVEWAY REMOVAL AND REPLACEMENT
 - SIDEWALK REMOVAL REAPLACE WITH; PCC SIDEWALK 5"
 - COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (IN KIND)
 - HMA SURFACE REMOVAL - BUTT JOINT
 - "A" DRAINAGE AND UTILITY STRUCTURES TO BE ADJUSTED

FILE NAME = 20R0319-PLAN-01 - P04	USER NAME =	DESIGNED -- GLA	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MINOOKA ROAD ROADWAY RESURFACING PAVEMENT PLAN			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -- MED/RG	REVISED --					21-00057-00-RS	GRUNDY	21	8	
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --					CONTRACT NO. 87782				
								FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		
					SCALE: NONE	SHEET NO. 8 OF 21 SHEETS	STA. TO STA.					



PAVEMENT MARKING LEGEND

- ① PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (CROSSWALK 6' C/C)
- ② PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 24" (STOP BAR)
- ③ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4" (SKIP-DASH, 10' LINE - 30' SPACE)
- ④ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4"
- ⑤ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" DOUBLE LINE (11" C/C)
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" SKIP-DASH (2' LINE - 6' SPACE)
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 12" (DIAGONAL)
- ⑧ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (SOLID)
- ⑨ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 12" (DIAGONAL)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING - LETTER & SYMBOLS
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" SKIP-DASH (2' LINE - 6' SPACE)

RECESSED REFLECTIVE PAVEMENT MARKER

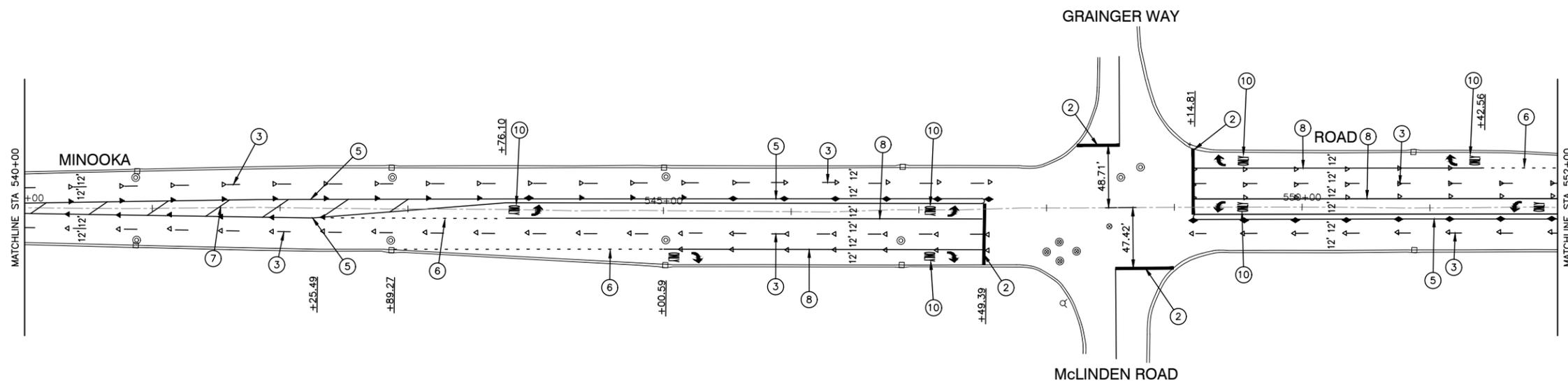
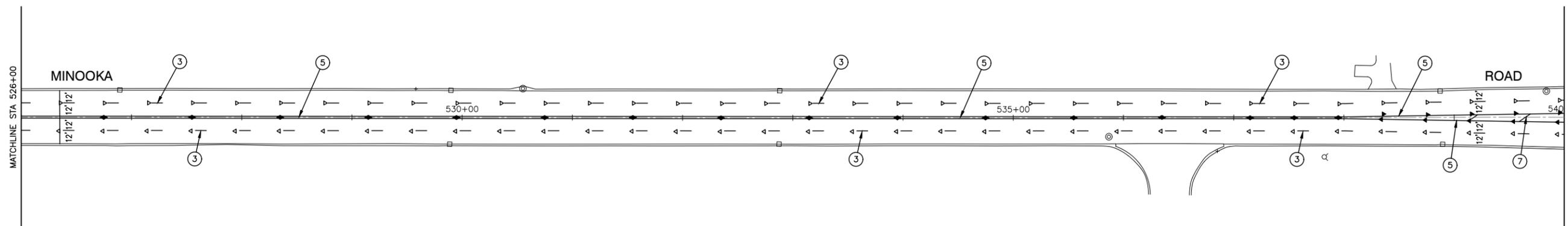
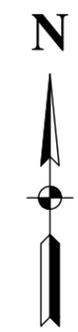
- ◄ ONE-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE INDICATED
- ◆ TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

FILE NAME = 20R0319-PMKG-01 - P01	USER NAME =	DESIGNED -- GLA	REVISED --
		CHECKED -- HG	REVISED --
	PLOT SCALE =	DRAWN -- MED/RG	REVISED --
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD ROADWAY RESURFACING PAVEMENT MARKING & SIGNING			
SCALE: NONE	SHEET NO. 9 OF 21 SHEETS	STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	9
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		



PAVEMENT MARKING LEGEND

- ① PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (CROSSWALK 6' C/C)
- ② PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 24" (STOP BAR)
- ③ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4" (SKIP-DASH, 10' LINE - 30' SPACE)
- ④ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4"
- ⑤ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" DOUBLE LINE (11" C/C)
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" SKIP-DASH (2' LINE - 6' SPACE)
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 12" (DIAGONAL)
- ⑧ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (SOLID)
- ⑨ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 12" (DIAGONAL)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING - LETTER & SYMBOLS
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" SKIP-DASH (2' LINE - 6' SPACE)

RECESSED REFLECTIVE PAVEMENT MARKER

- ◄ ONE-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE INDICATED
- ◆ TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

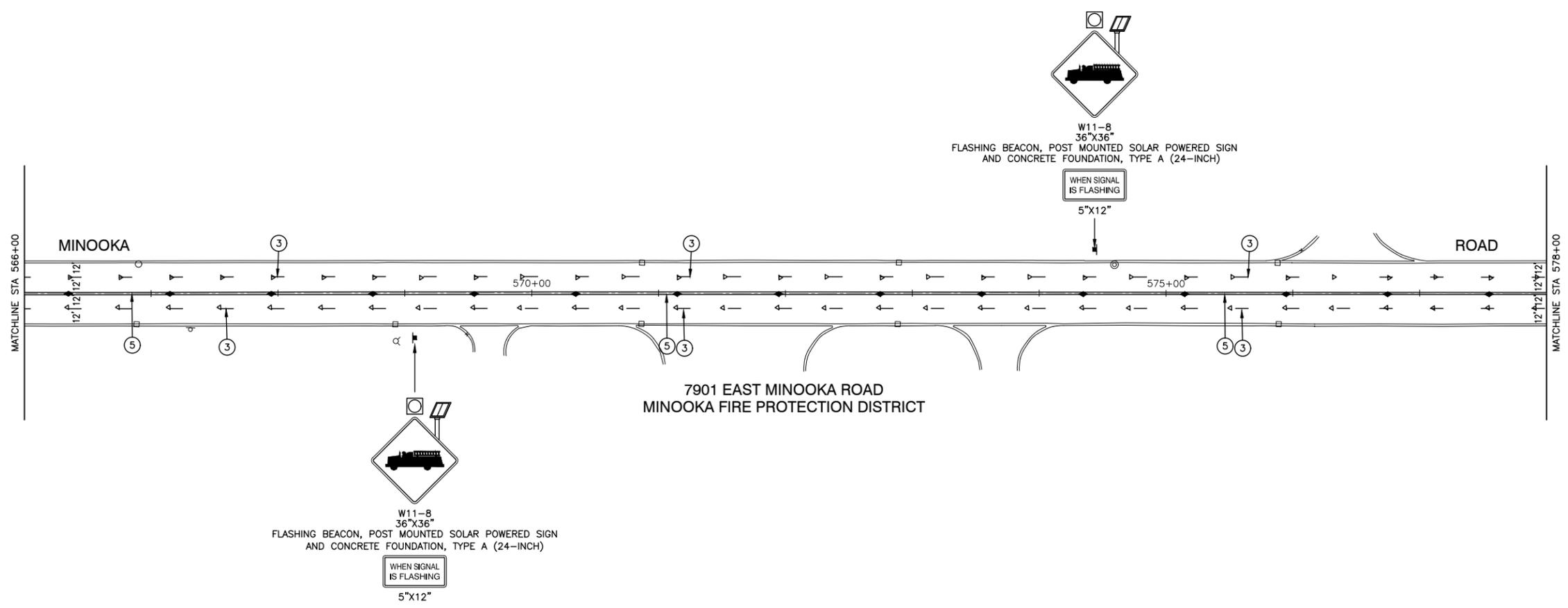
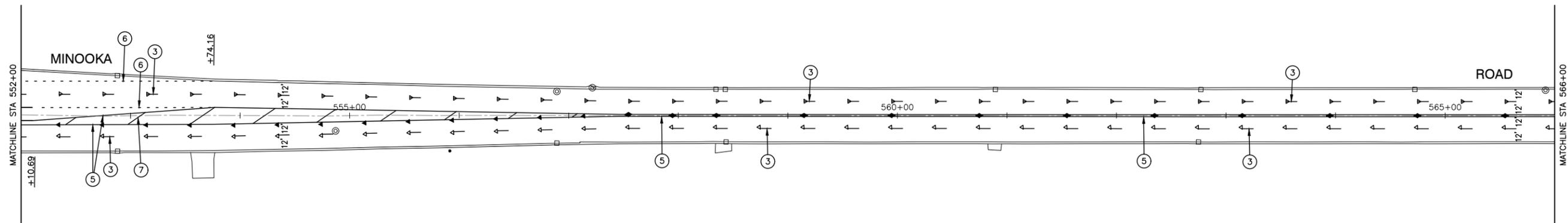
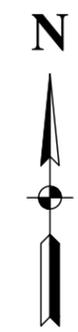
FILE NAME = 20R0319-PMKG-01 - P02

USER NAME =	DESIGNED -- GLA	REVISED --
	CHECKED -- HG	REVISED --
PLOT SCALE =	DRAWN -- MED/RG	REVISED --
PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD ROADWAY RESURFACING PAVEMENT MARKING & SIGNING		
SCALE: NONE	SHEET NO. 10 OF 21 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	10
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		



PAVEMENT MARKING LEGEND

- ① PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (CROSSWALK 6' C/C)
- ② PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 24" (STOP BAR)
- ③ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4" (SKIP-DASH, 10' LINE - 30' SPACE)
- ④ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4"
- ⑤ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" DOUBLE LINE (11" C/C)
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" SKIP-DASH (2' LINE - 6' SPACE)
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 12" (DIAGONAL)
- ⑧ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (SOLID)
- ⑨ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 12" (DIAGONAL)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING - LETTER & SYMBOLS
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" SKIP-DASH (2' LINE - 6' SPACE)

RECESSED REFLECTIVE PAVEMENT MARKER

- ◄ ONE-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE INDICATED
- ◆ TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

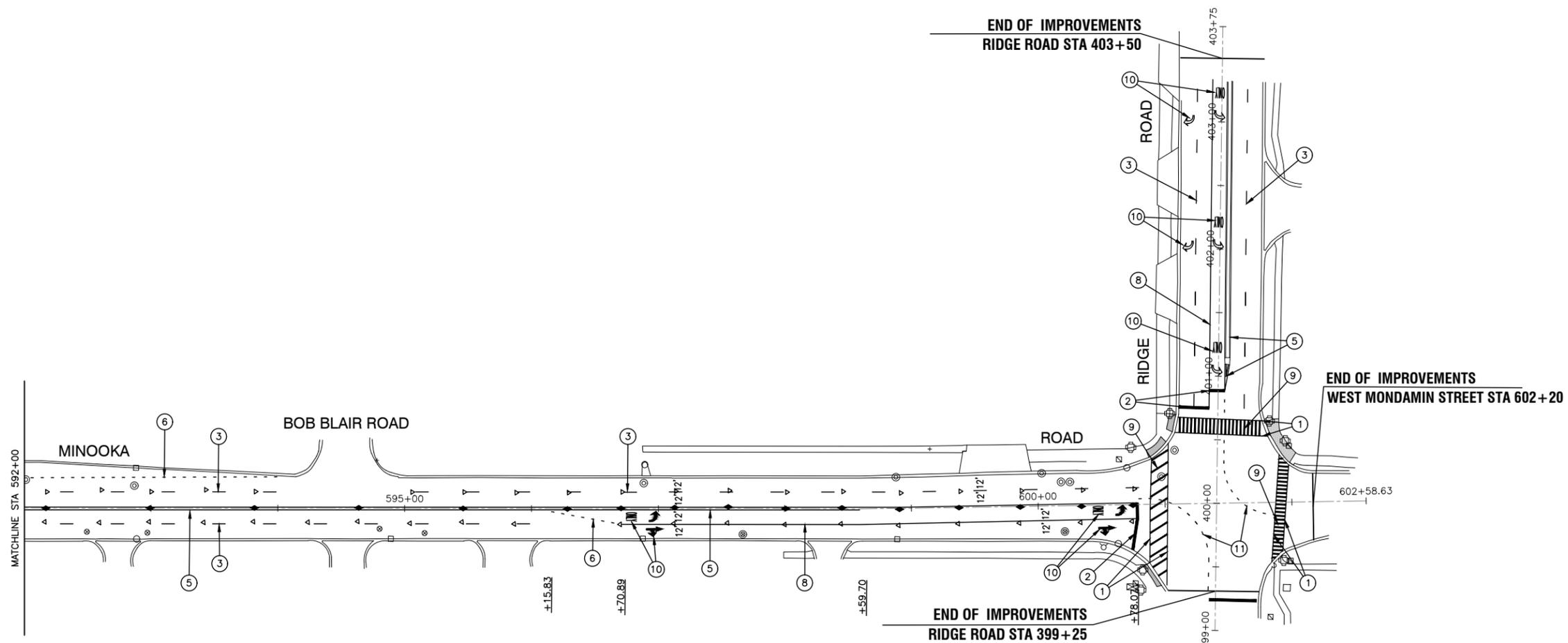
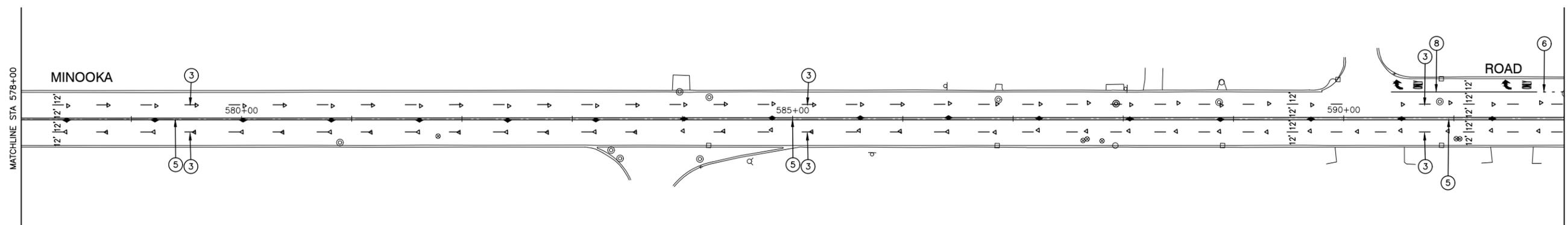
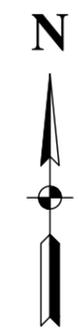
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USER NAME =	DESIGNED -- GLA	REVISED --
	CHECKED -- HG	REVISED --
PLOT SCALE =	DRAWN -- MED/RG	REVISED --
PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD ROADWAY RESURFACING PAVEMENT MARKING & SIGNING	
SCALE: NONE	SHEET NO. 11 OF 21 SHEETS
STA. TO STA.	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	11
CONTRACT NO. 87782				
FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT 2YJC (363)		



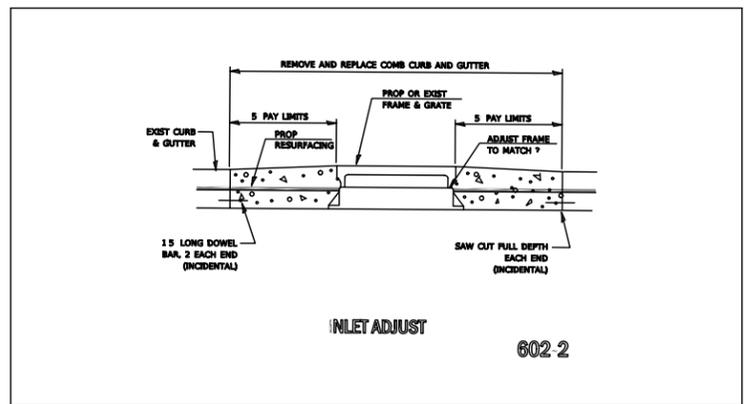
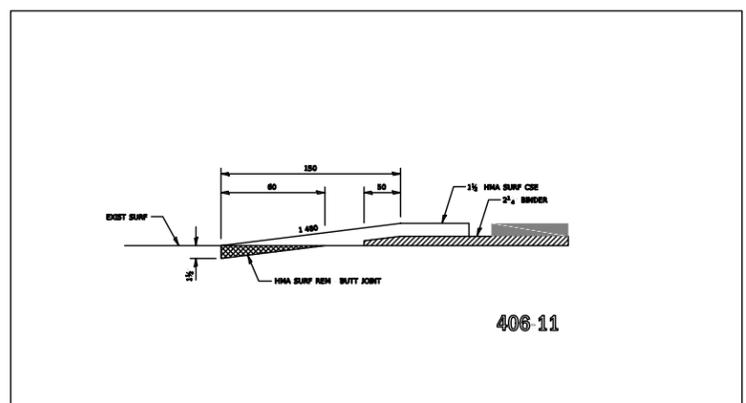
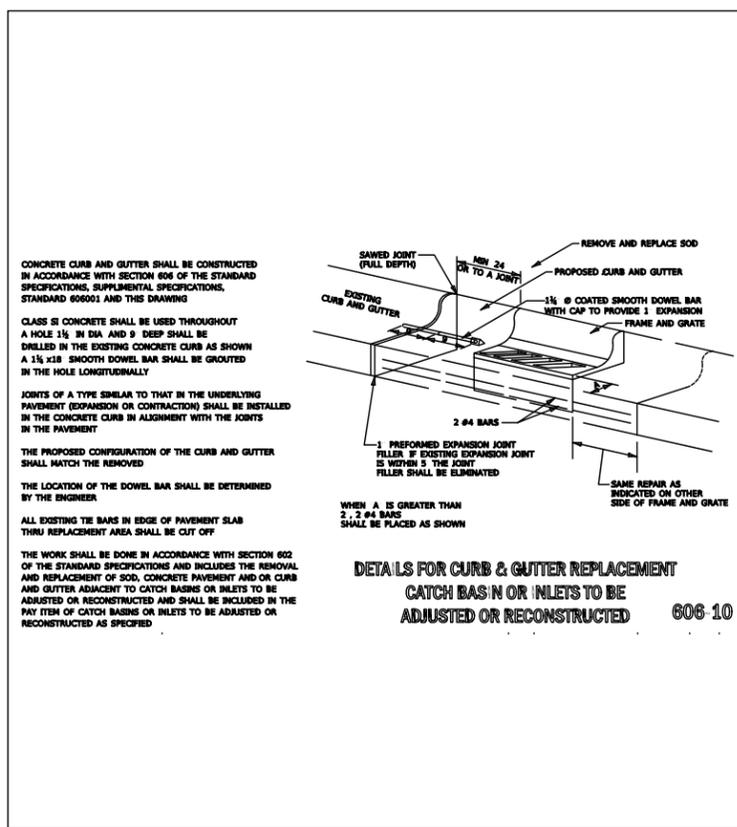
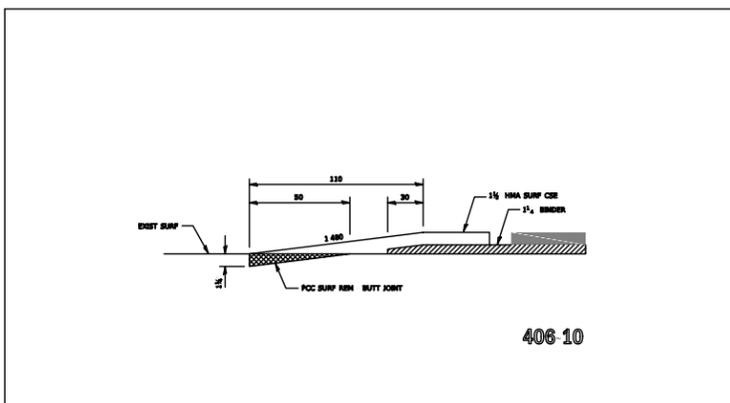
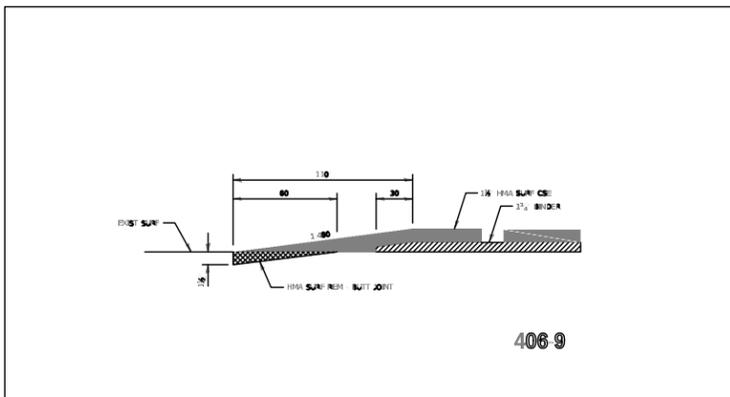
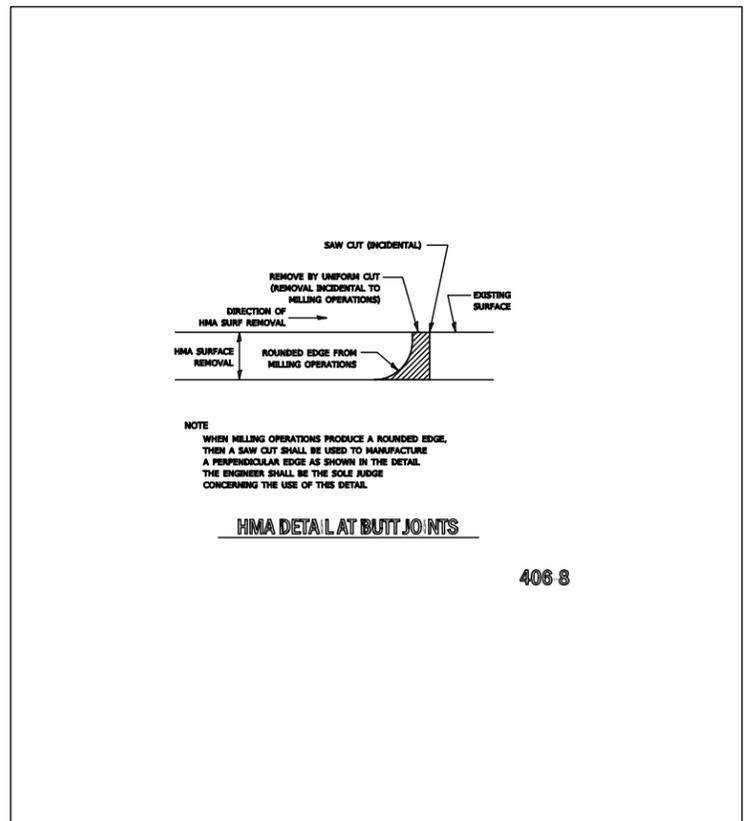
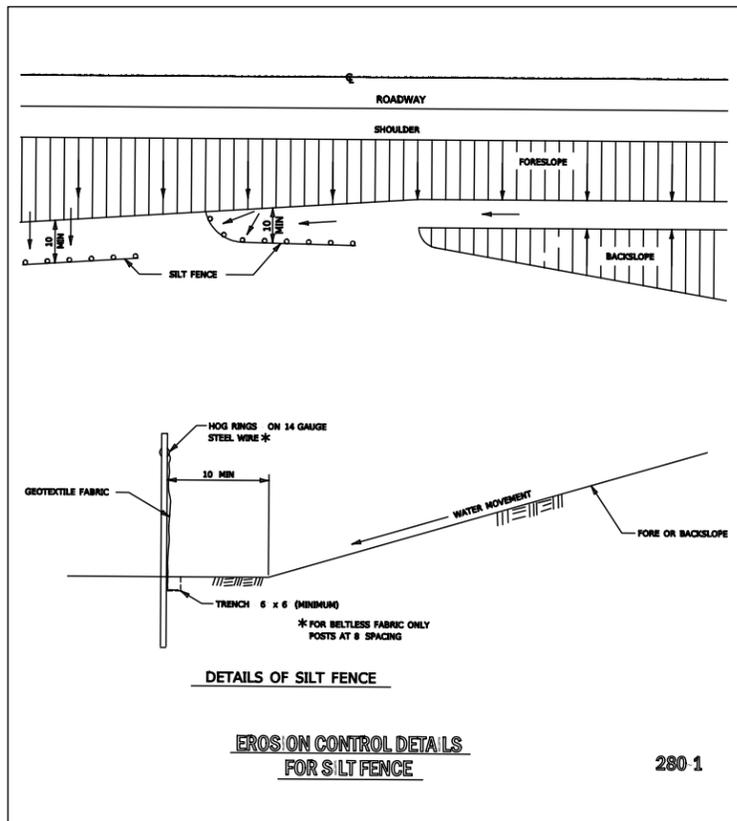
PAVEMENT MARKING LEGEND

- ① PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (CROSSWALK 6' C/C)
- ② PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 24" (STOP BAR)
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- ④ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 4"
- ⑤ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" DOUBLE LINE (11" C/C)
- ⑥ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" SKIP-DASH (2' LINE - 6' SPACE)
- ⑦ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 12" (DIAGONAL)
- ⑧ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 6" (SOLID)
- ⑨ PREFORMED PLASTIC PAVEMENT MARKING WHITE LINE, 12" (DIAGONAL)
- ⑩ PREFORMED PLASTIC PAVEMENT MARKING - LETTER & SYMBOLS
- ⑪ PREFORMED PLASTIC PAVEMENT MARKING YELLOW LINE, 4" SKIP-DASH (2' LINE - 6' SPACE)

RECESSED REFLECTIVE PAVEMENT MARKER

- ◄ ONE-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED
- ◄ ONE-WAY CRYSTAL MARKER 80' C/C UNLESS OTHERWISE INDICATED
- ◆ TWO-WAY AMBER MARKER 40' C/C UNLESS OTHERWISE INDICATED

FILE NAME = 20R0319-PMKG-01 - P04	USER NAME =	DESIGNED -- GLA	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MINOOKA ROAD ROADWAY RESURFACING PAVEMENT MARKING & SIGNING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE =	DRAWN -- MED/RG	REVISED --		SCALE: NONE	SHEET NO. 12 OF 21 SHEETS	STA. TO STA.	21-00057-00-RS	GRUNDY	21	12	
PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --					CONTRACT NO. 87782					
							FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT 2YJC (363)					



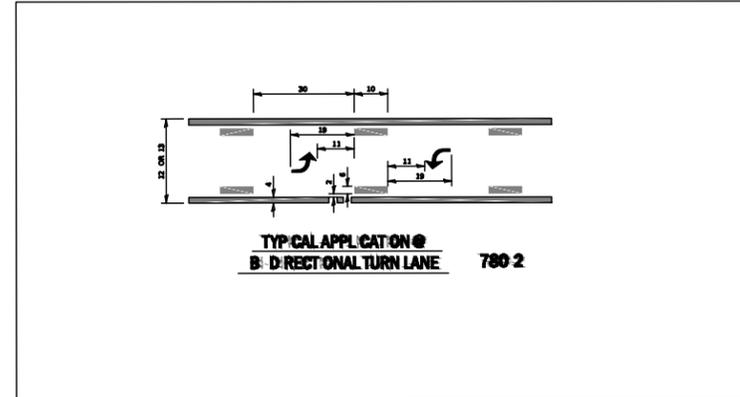
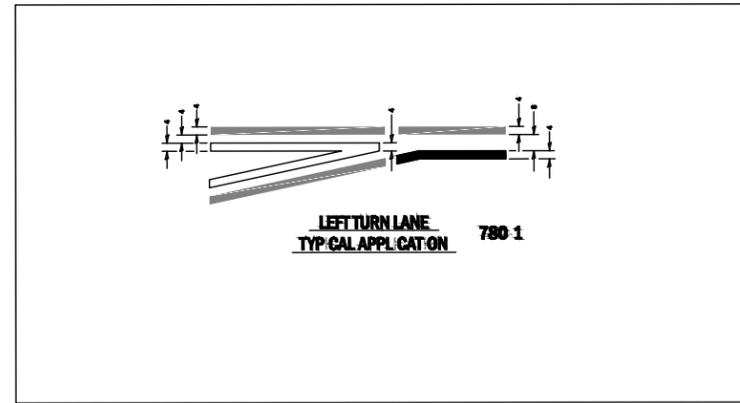
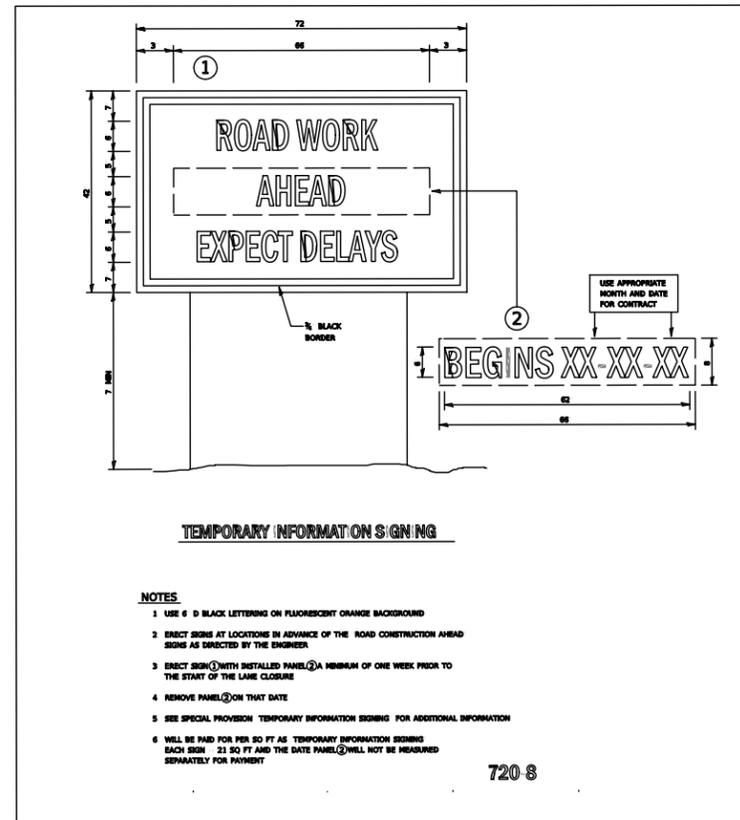
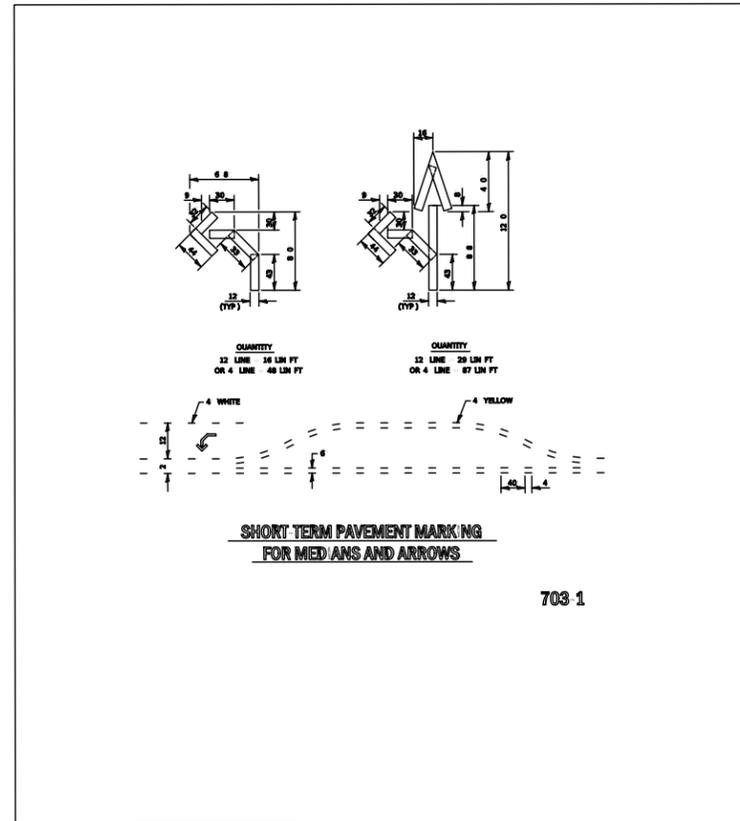
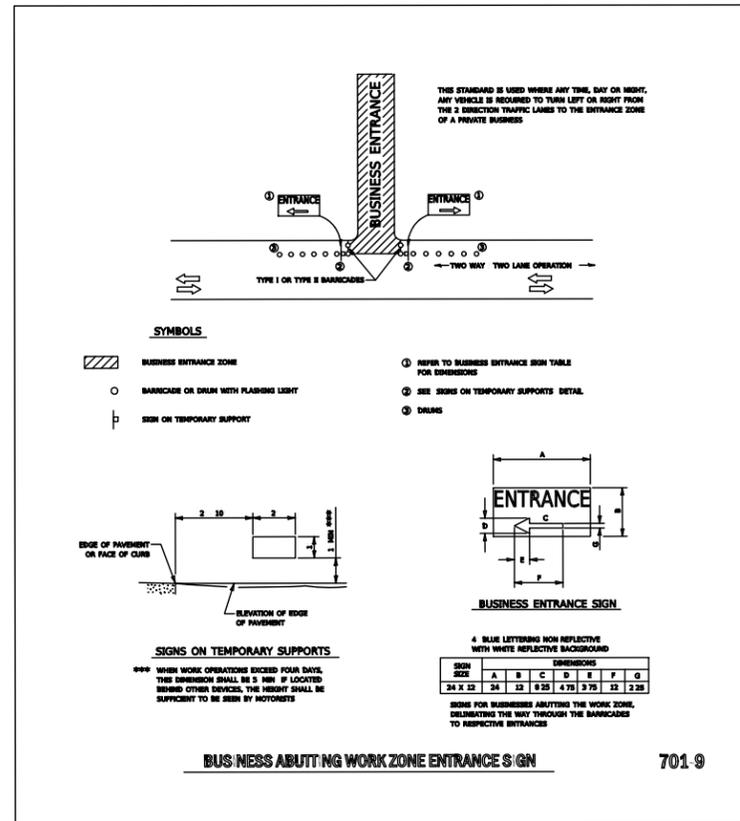
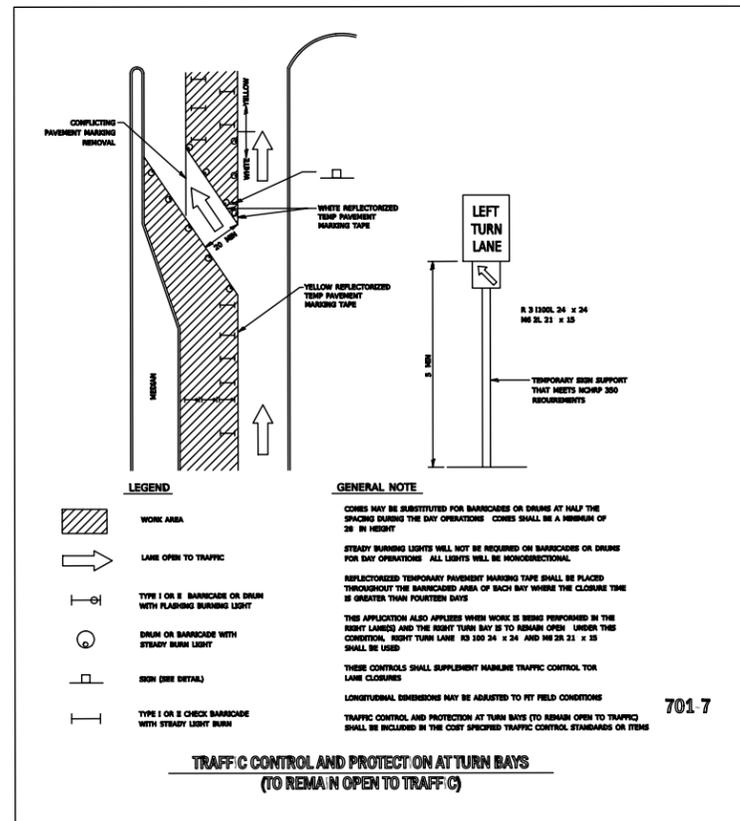
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		CHECKED — HG	REVISED —
	PLOT SCALE =	DRAWN — MED/RG	REVISED —
	PLOT DATE = 08-13-21	CHECKED — AG	REVISED —

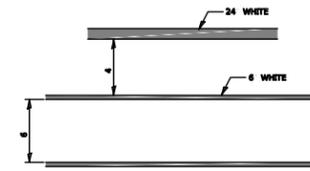
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MINOOKA ROAD
ROADWAY RESURFACING
DISTRICT 3 - DETAILS

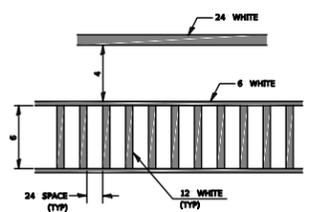
SCALE: NONE SHEET NO. 13 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	13
CONTRACT NO. 87782				
1 ILLINOIS FED. AID PROJECT 2YJC (363)				

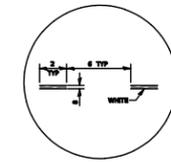




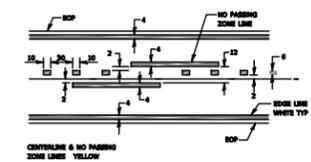
TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS
780 3
OPTION 1



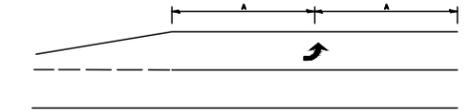
TYPICAL SPACING DETAIL FOR
CROSSWALKS AND STOP BARS
780 3
OPTION 2



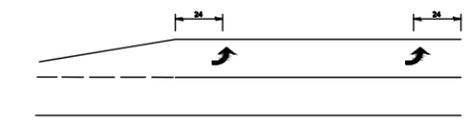
ADVANCE AND INTERSECT ON LANE
D/V D/R LINES
780 5



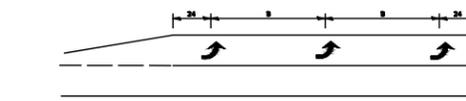
PAVEMENT MARKING
780 8



99 AND UNDER



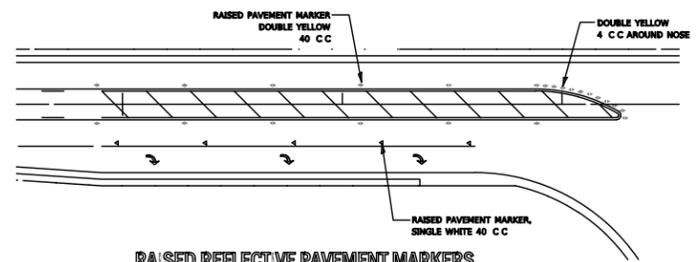
100 TO 149



150 AND LONGER

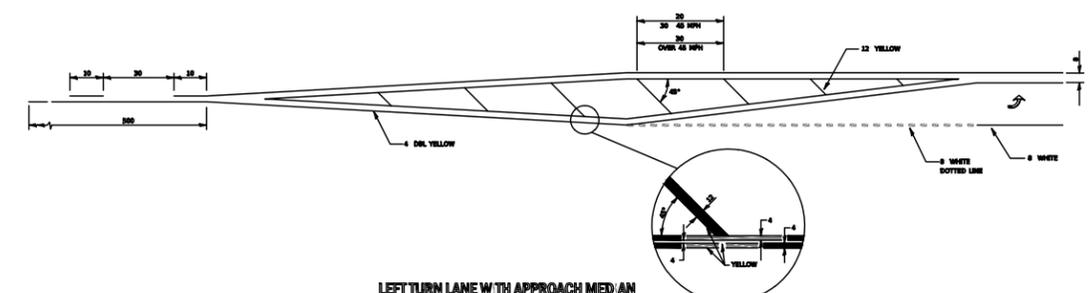
TYPICAL PLACEMENT OF ARROWS
IN TURN LANES

780 10



RAISED REFLECTIVE PAVEMENT MARKERS
RIGHT TURN LANE

781 1



LEFT TURN LANE WITH APPROACH MEDIAN

780 19

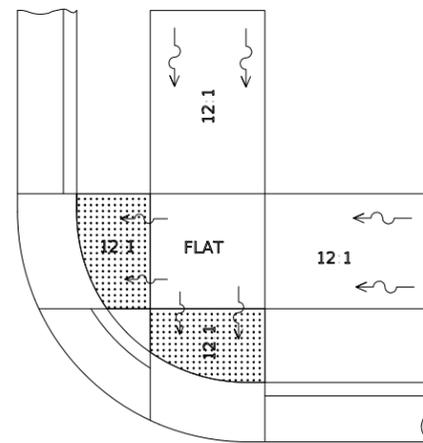
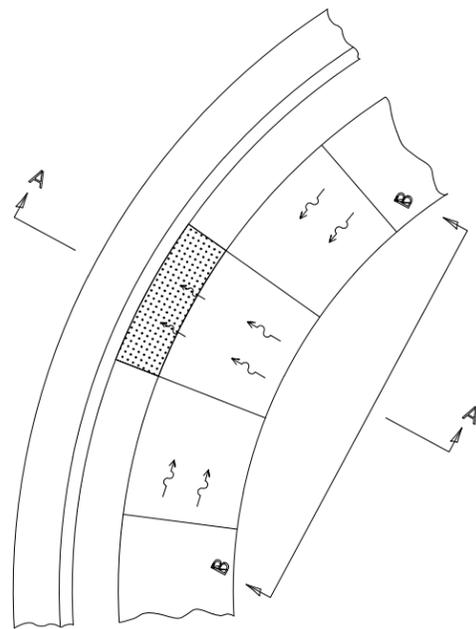
FILE NAME = 20R0319-DTLS-01 - BD-01 (6)

USER NAME =	DESIGNED — GLA	REVISED —
	CHECKED — HG	REVISED —
PLOT SCALE =	DRAWN — MED/RG	REVISED —
PLOT DATE = 08-13-21	CHECKED — AG	REVISED —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MINOOKA ROAD ROADWAY RESURFACING DISTRICT 3 - DETAILS	
SCALE: NONE	SHEET NO. 15 OF 21 SHEETS
STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	15
CONTRACT NO. 87782				
1 ILLINOIS FED. AID PROJECT 2YJC (363)				



SEE STANDARD 424001 FOR SIDE FLARE
DETAIL & SEE PLANS FOR RAMP TYPE

NOTES

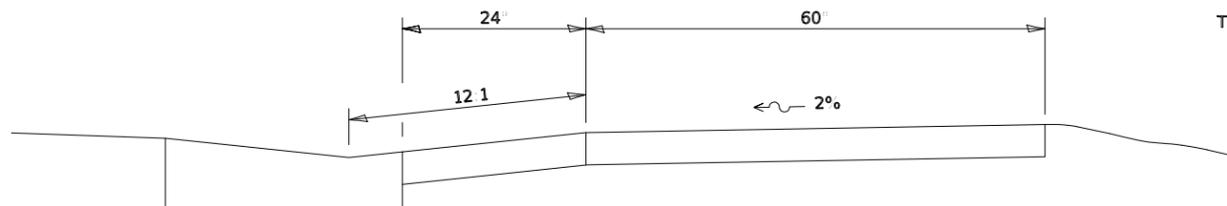
THIS DETAIL TO BE USED IN CONJUNCTION WITH STATE STANDARD 424001

THE MAXIMUM ALLOWABLE CROSS SLOPE FOR SIDEWALK IS 2%.

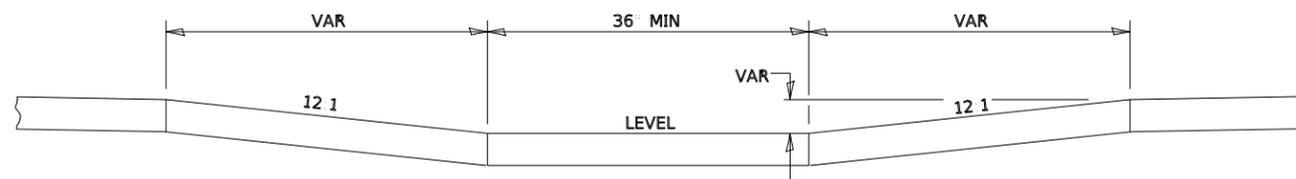
THE MAXIMUM ALLOWABLE SIDEWALK GRADE IS 8%.

IF SPACE LIMITATIONS PROHIBIT THE USE OF THE 12:1 SLOPE, THEN SLOPES BETWEEN 10:1 AND 12:1 ARE PERMITTED FOR A MAXIMUM RISE OF 6". SLOPES 8:1 AND 10:1 ARE ALLOWED FOR A MAXIMUM RISE OF 3". SLOPES STEEPER THAN 8:1 ARE NOT PERMITTED.

THE DEPRESSED CURB IS NOT STANDARD THE RISE IS 1/2" INSTEAD OF 1 1/2"



SECTION A-A



SECTION B-B

ADA SIDEWALK ACCESSIBILITY RAMP DETAIL

424-29

FILE NAME = 20R0319-DTLS-01 - BD-01 (2)	USER NAME =	DESIGNED -- GLA	REVISED --	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MINOOKA ROAD ROADWAY RESURFACING DISTRICT 3 - DETAILS			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		CHECKED -- HG	REVISED --		SCALE: NONE	SHEET NO. 16 OF 21 SHEETS	STA.	TO STA.	21-00057-00-RS	GRUNDY	21	16
		PLOT SCALE =	DRAWN -- MED/RG		REVISED --				CONTRACT NO. 87782			
		PLOT DATE = 08-13-21	CHECKED -- AG		REVISED --				1 ILLINOIS FED. AID PROJECT 2YJC (363)			

TS SHT NO. 2

GENERAL NOTES

1. THE TRAFFIC SIGNAL SECTION AT THE ILLINOIS DEPARTMENT OF TRANSPORTATION, DISTRICT 3, SHALL BE NOTIFIED AT 815-434-8506 AT LEAST 72 HOURS PRIOR TO TURNING ON ANY FLASHER OR CONTROLLER UNITS. THE CONTRACTOR SHALL ALSO COORDINATE WITH IDOT STAFF SO THAT THE FINAL LOCATION OF SIGNAL FACILITIES CAN BE OBSERVED AND APPROVED PRIOR TO POURING FOUNDATIONS.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:
 -AT&T -AQUA ILLINOIS
 -COMCAST -INTERCARRIER NETWORKS
 -COMED -VILLAGE OF MINOOKA
 -NICOR
3. ALL TRAFFIC SIGNAL HEADS SHALL BE 12-INCH POLYCARBONATE.
4. A 1/4" DIAMETER CONTINUOUS RODENT RESISTANT NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER. THIS COST SHALL BE INCLUDED WITH THE COST OF CONDUIT PAY ITEM.
5. THE CONTRACTOR SHALL ARRANGE FOR A FACTORY OR SUPPLIER REPRESENTATIVE TO BE PRESENT AT THE INTERSECTION WHEN THE SIGNAL IS TURNED ON. COST TO BE INCLUDED WITH THE TRAFFIC SIGNAL CONTROLLER PAY ITEM.
6. ALL CONDUIT IN TRENCH SHALL BE P.V.C. ALL PUSHED CONDUIT MAY BE P.V.C. OR GALVANIZED STEEL. CONDUIT ATTACHED TO STRUCTURES SHALL BE GALVANIZED STEEL.
7. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR PLACING CONDUIT AT A GREATER THAN 2' MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
8. THE ELECTRICAL CONDUCTORS FOR ALL TRAFFIC SIGNAL HEADS SHALL BE SOLID, SOFT COPPER.
9. ALL THREADS OF BOLTS USED IN THE ASSEMBLY OF TRAFFIC SIGNAL COMPONENTS SHALL BE COATED WITH A NON-LEAD BASED ANTI-SEIZE COMPOUND, SIMILAR TO LEAD PLATE, PRIOR TO ASSEMBLY.
10. ALL HARDWARE SHALL BE TIGHTENED AND WELL SECURED, CABLES SHALL BE NEATLY WOUND IN HANDHOLES. CABLES SHALL BE NEATLY TRAINED IN THE CONTROLLER CABINET.
11. ALL TRAFFIC SIGNAL WIRING SHALL EXTEND FROM CONTROLLER TO SIGNAL. SPLICES IN JUNCTION BOXES WILL NOT BE ALLOWED.
12. ALL GROUNDING MATERIALS FOR CONCRETE FOUNDATIONS SHALL REFER TO SECTION 807 OF THE STANDARD SPECIFICATIONS.
13. ANY EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE IDOT RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.

COMMITMENTS

1. NO COMMITMENTS.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE
AS BUILT INFORMATION

SUPERVISING CONSTRUCTION FIELD ENGINEER

RESIDENT ENGINEER / TECHNICIAN

START & END DATES
OF CONSTRUCTION:

INSPECTORS

FILE NAME = 20R0019-SGNL-DTLS-01 - NOTES	USER NAME =	DESIGNED -- GLA	REVISED --
		CHECKED -- HG	REVISED --
	PLOT SCALE =	DRAWN -- MD/RG	REVISED --
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

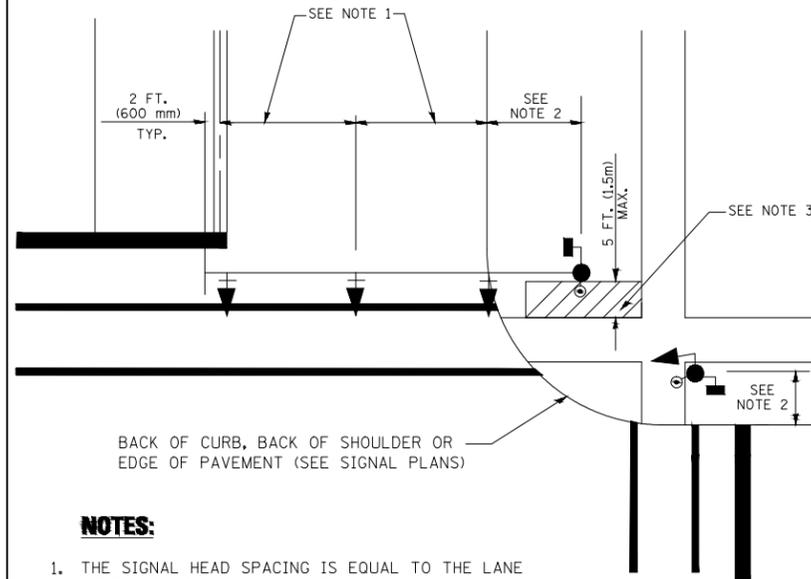
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MINOOKA ROAD
ROADWAY RESURFACING
STANDARD TRAFFIC SIGNAL GENERAL NOTES

SCALE: NONE SHEET NO. 17 OF 21 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	17
CONTRACT NO. 87782				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	2YJC (363)	

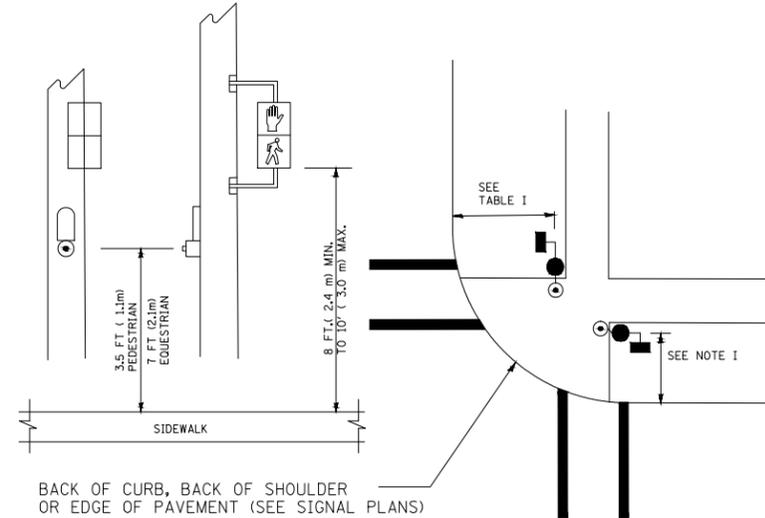
**TRAFFIC SIGNAL MAST ARM AND SIGNAL POST
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR
FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN
WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.**



NOTES:

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

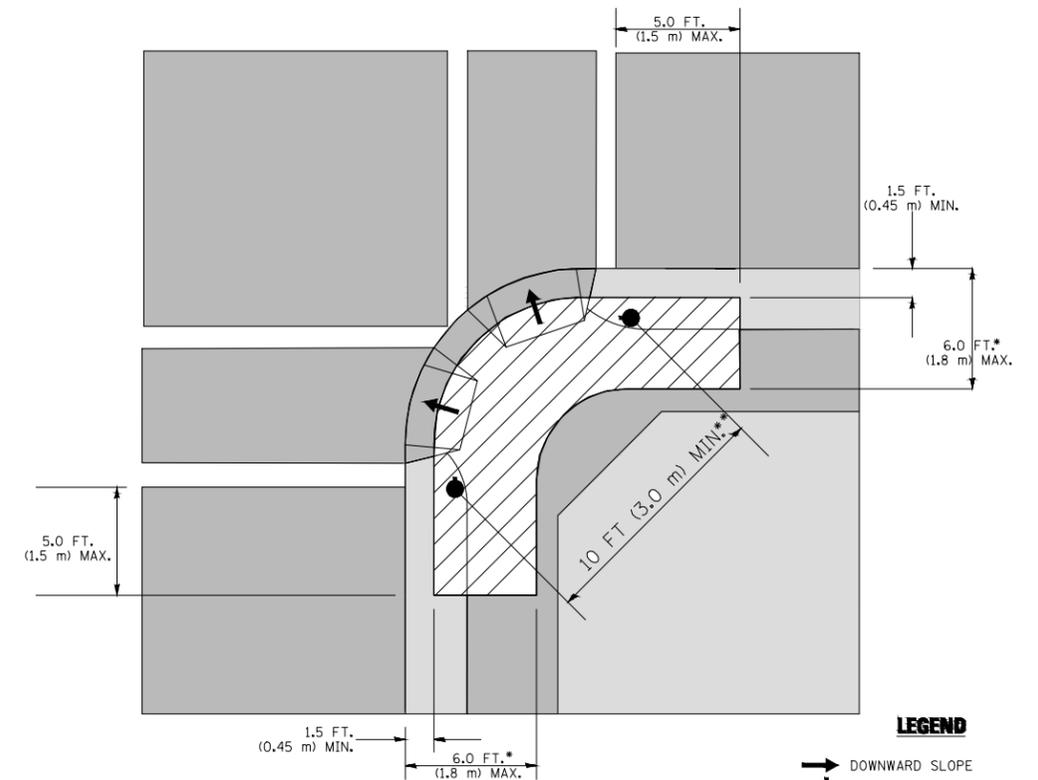
**PEDESTRIAN SIGNAL POST
AND
PEDESTRIAN PUSH BUTTON POST**



NOTES:

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

RECOMMENDED PUSHBUTTON LOCATIONS



LEGEND

- DOWNWARD SLOPE
- PEDESTRIAN PUSHBUTTON
- RECOMMENDED PUSHBUTTON LOCATIONS

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

NOTES:

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

TRAFFIC SIGNAL EQUIPMENT OFFSET

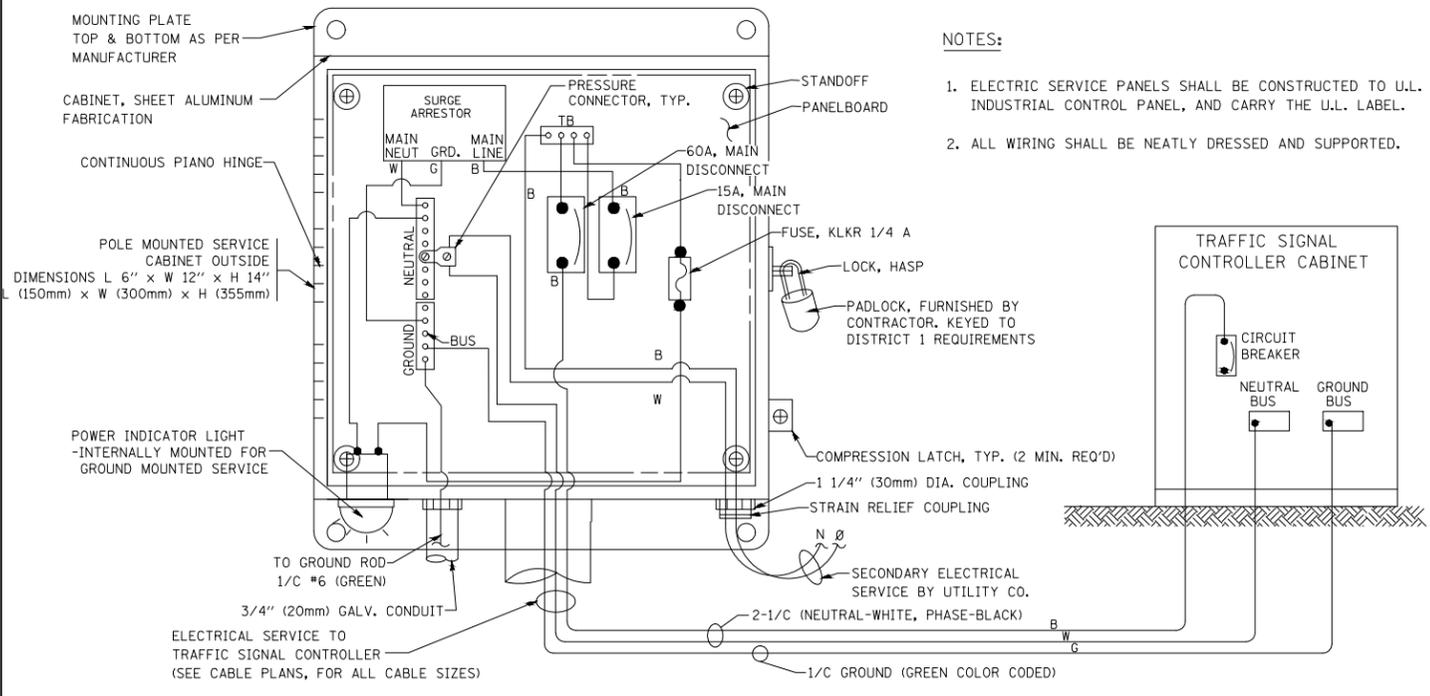
TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (1.8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10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

NOTES:

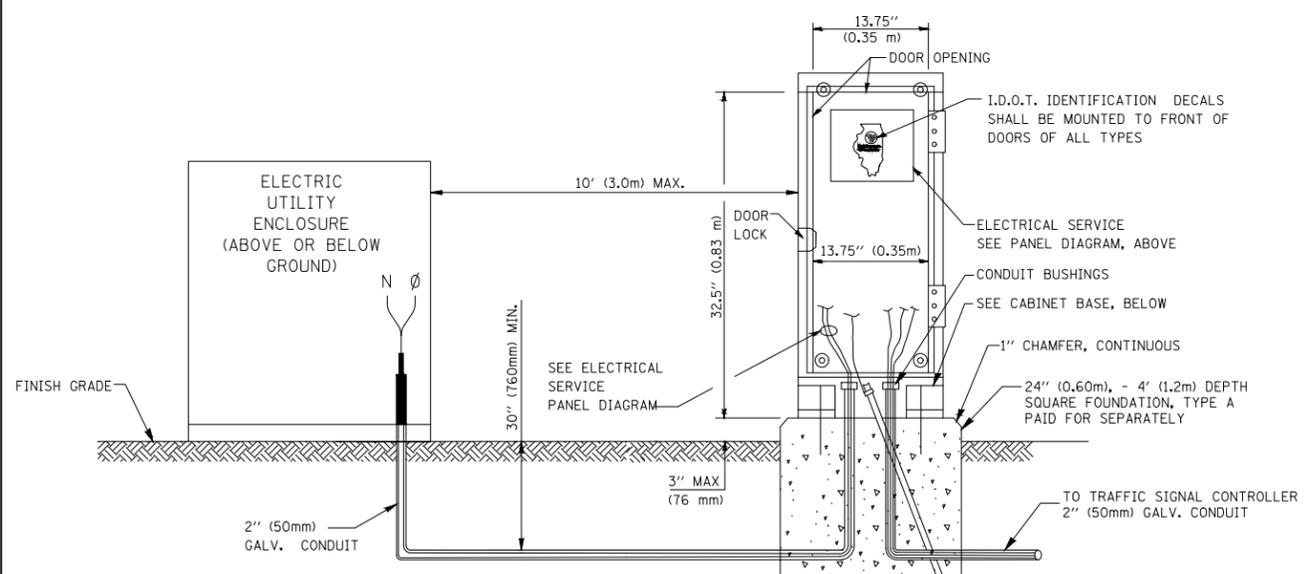
1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM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

TS SHT NO. 2

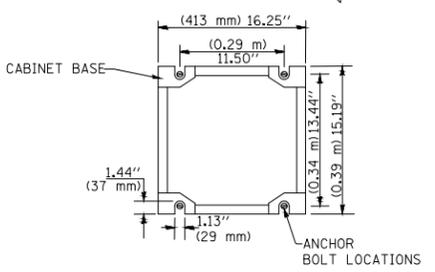
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	CHECKED -- HG	REVISD --				21-00057-00-RS	GRUNDY	21	18	
	PLOT SCALE =	DRAWN -- MD/RG	REVISD --			CONTRACT NO. 87782				
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISD --			FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	2YJC (363)	



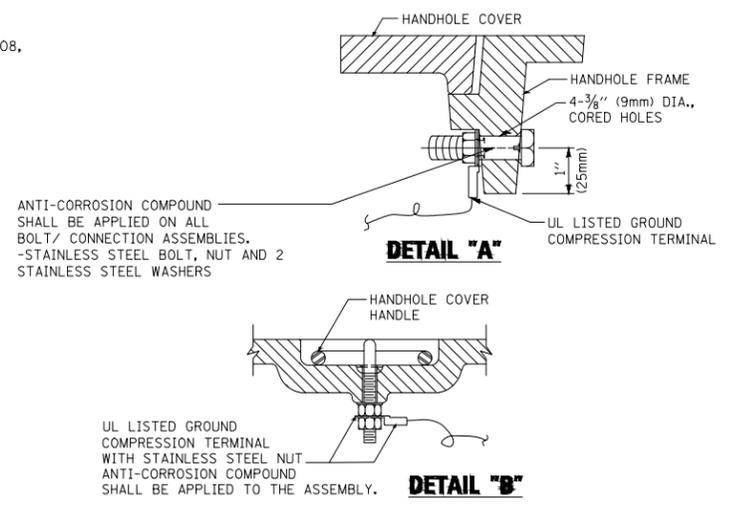
ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE) SERVICE INSTALLATION POLE MOUNT (SHOWN) (NOT TO SCALE)



SERVICE INSTALLATION GROUND MOUNT (NOT TO SCALE)

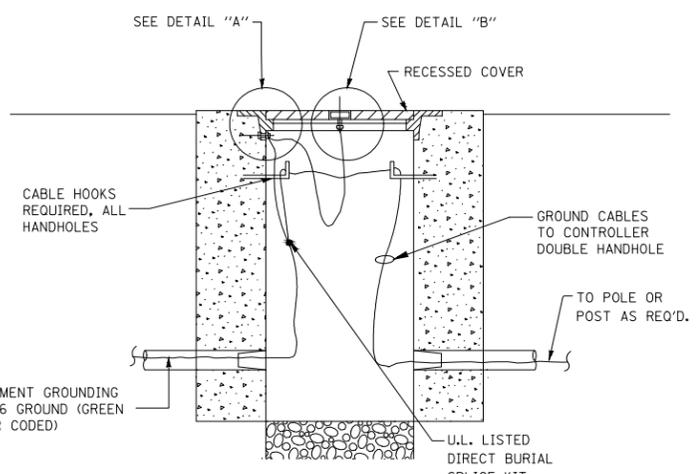


CABINET - BASE BOLT PATTERN (NOT TO SCALE)

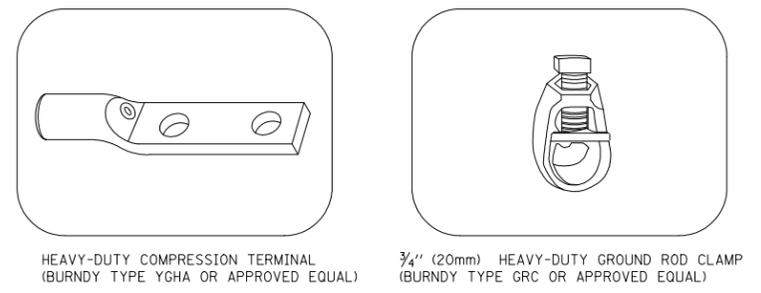


NOTES:
GROUNDING SYSTEM

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

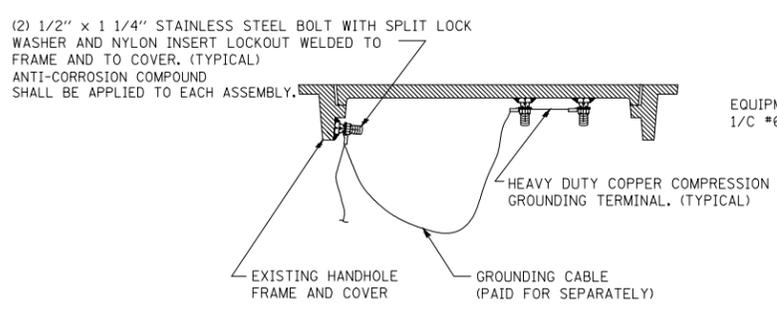


HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)

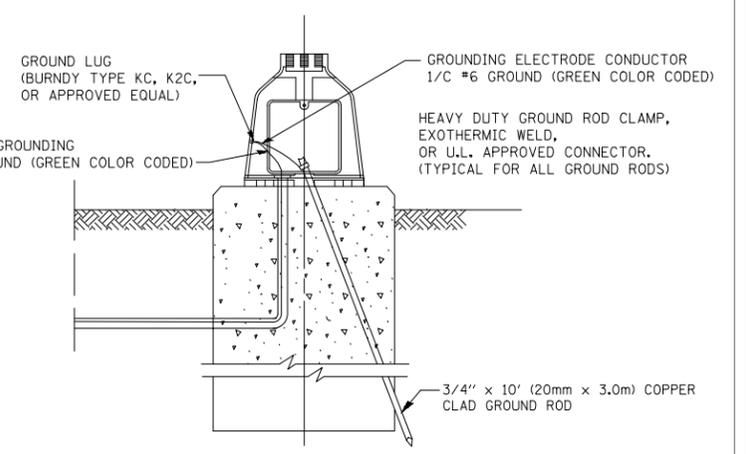


NOTES:

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



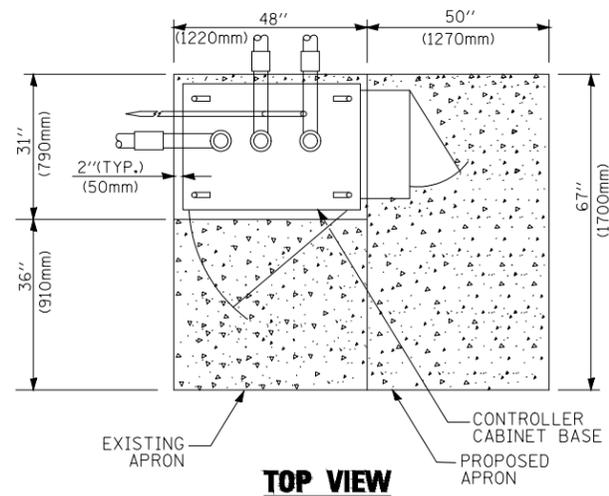
EXISTING HANDHOLE COVER & FRAME - GROUNDING DETAIL (NOT TO SCALE)



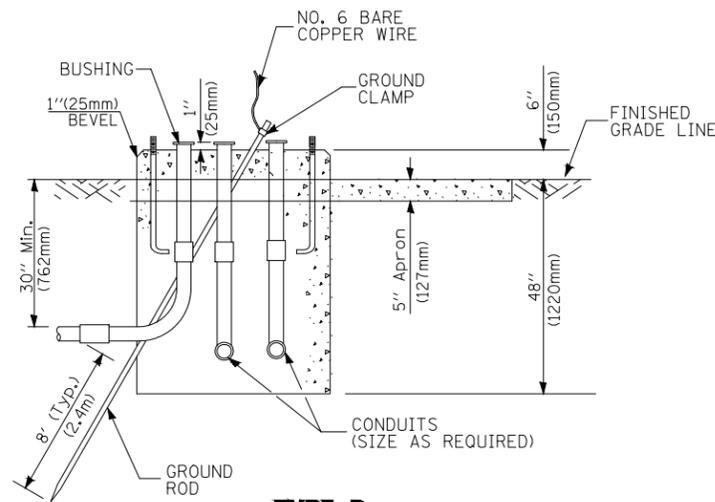
MAST ARM POLE / POST-GROUNDING DETAIL (NOT TO SCALE)

TS SHT NO. 3

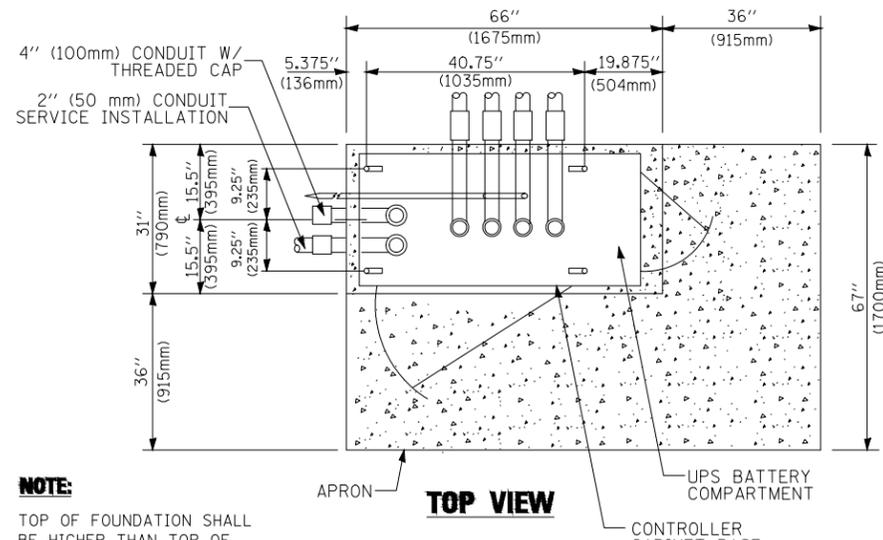
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		CHECKED -- HG	REVISED --		SCALE: NONE	SHEET NO. 19 OF 21 SHEETS	STA.	TO STA.	21-00057-00-RS	GRUNDY	21	19
		PLOT SCALE =	DRAWN -- MD/RG		REVISED --				CONTRACT NO. 87782			
		PLOT DATE = 08-13-21	CHECKED -- AG		REVISED --				FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	2JYC (363)



TOP VIEW



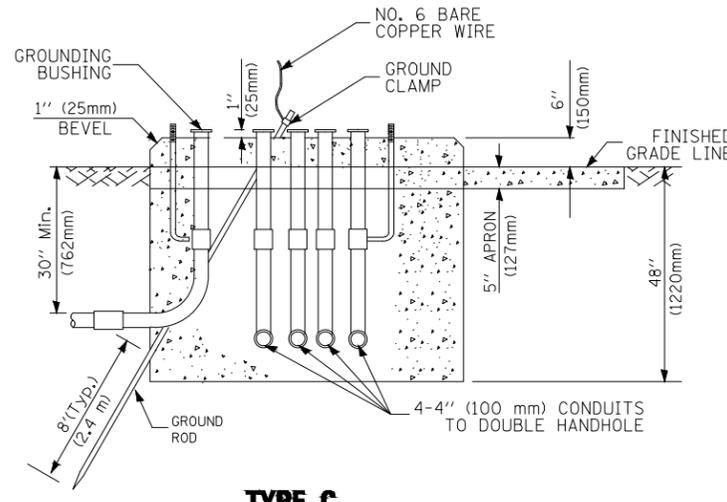
**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**



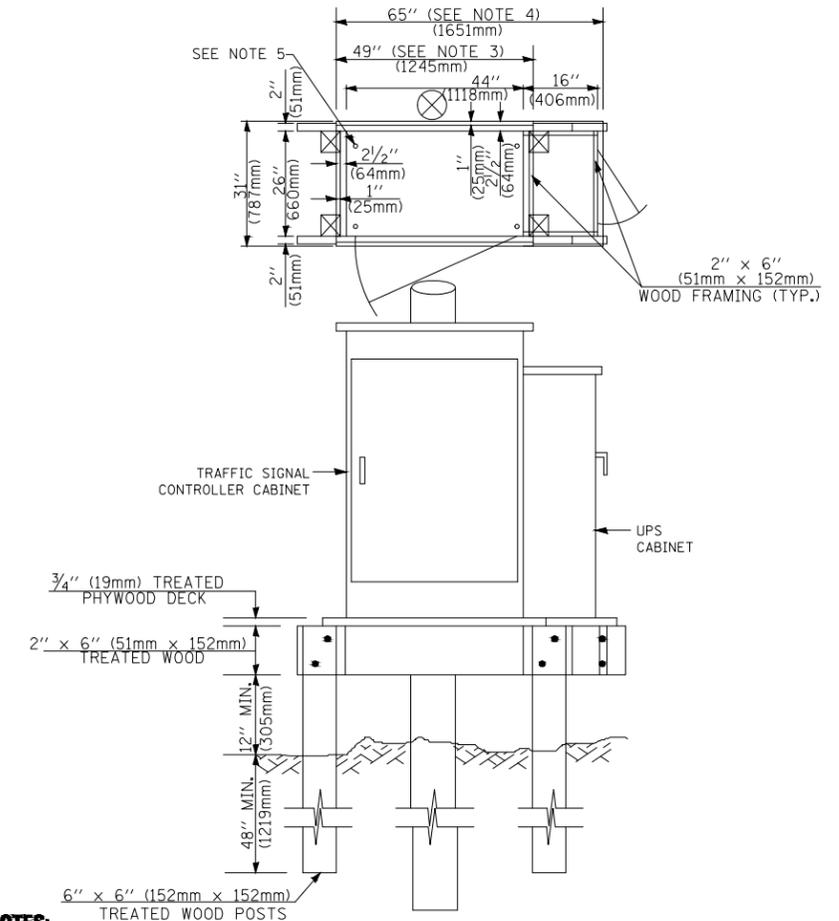
TOP VIEW

NOTE:

TOP OF FOUNDATION SHALL BE HIGHER THAN TOP OF DOUBLE HANDHOLE



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



NOTES:

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

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

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

CABLE SLACK

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

VERTICAL CABLE LENGTH

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

DEPTH OF FOUNDATION

Mast Arm Length	① Foundation Depth	Foundation Diameter	Spiral Diameter	Quantity of Rebars	Size of Rebars
Less than 30' (9.1 m)	10'-0" (3.0 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m)	13'-6" (4.1 m)	30" (750mm)	24" (600mm)	8	6(19)
Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)	11'-0" (3.4 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)	13'-0" (4.0 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 55' (16.8 m) and up to 65' (19.8 m)	15'-0" (4.6 m)	36" (900mm)	30" (750mm)	12	7(22)
Greater than or equal to 65' (19.8 m) and less than 75' (22.9 m)	21'-0" (6.4 m)	42" (1060mm)	36" (900mm)	16	8(25)
Greater than or equal to 75' (22.9 m)	25'-0" (7.6 m)	42" (1060mm)	36" (900mm)	16	8(25)

NOTES:

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

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

TS SHT NO. 4

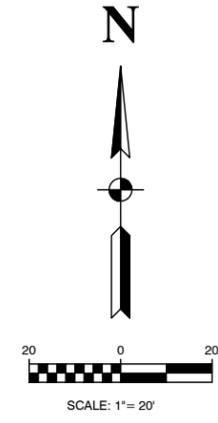
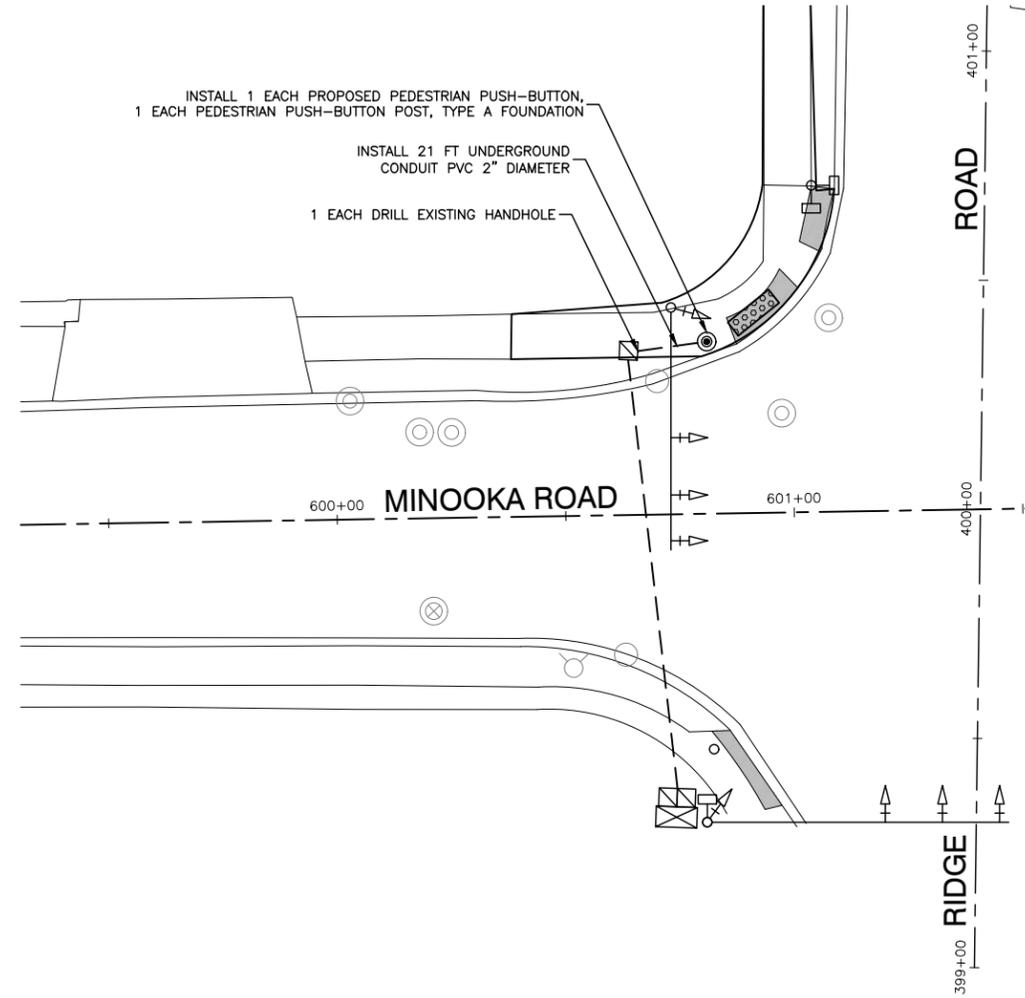
FILE NAME = 20R0319-SGNL-DTSL-01 - P03	USER NAME =	DESIGNED -- GLA	REVISED --
		CHECKED -- HG	REVISED --
	PLOT SCALE =	DRAWN -- MD/RG	REVISED --
	PLOT DATE = 08-13-21	CHECKED -- AG	REVISED --

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MINOOKA ROAD
ROADWAY RESURFACING
STANDARD TRAFFIC SIGNAL DETAILS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	21-00057-00-RS	GRUNDY	21	20
CONTRACT NO. 87782				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	2YJC (363)	

SCALE: NONE SHEET NO. 20 OF 21 SHEETS STA. TO STA.



TRAFFIC SIGNALS LEGEND

- ◻ EXIST. HANDHOLE
- ◻ EXIST. CONTROLLER
- EXIST. STEEL MAST ARM
- ⊙ EXIST. HANDHOLE
- EXIST. SIGNAL HEAD
- EXIST. SIGNAL HEAD WITH BACKPLATE
- ⊏ EXIST. SIGNAL HEAD, PEDESTRIAN
- EXIST. SIGNAL POST
- ⊗ EXIST. WOOD POLE
- CONDUIT
- ◻ PROPOSED CONCRETE SURFACE REMOVAL AND REPLACEMENT
- ◻ PROP. HANDHOLE
- ◻ EXIST. HANDHOLE
- PROP. STEEL MAST ARM
- ⊙ PROP. PEDESTRIAN PUSHBUTTON DETECTOR/POST
- PROP. SIGNAL HEAD
- PROP. SIGNAL HEAD WITH BACKPLATE
- ⊏ PROP. SIGNAL HEAD, PEDESTRIAN
- PROP. SIGNAL POST
- ⊗ PROP. WOOD POLE

BILL OF MATERIALS

MINOOKA ROAD AT RIDGE ROAD - NW QUAD

ITEM	UNIT	QUANTITY
UNDERGROUND CONDUIT, PVC, 2" DIA	FOOT	21
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	159
PEDESTRIAN PUSH-BUTTON POST	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	4
DRILL EXISTING HANDHOLE	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	1
MODIFY EXISTING CONTROLLER CABINET	EACH	1

NOTE:
SEE PROJECT SUMMARY OF QUANTITIES FOR RESTORATION AND FLATWORK ITEMS.