

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2020
 morning 12/6/2023 10:05:53 AM
 FILE: \\maplewood.com\Projects\Crystal Lake\CDOT\161141-US-41-Stearns_School\CADD\Sheets-Phase II\161141_SHT-SOQ.dgn



USER NAME = morning	DESIGNED - AMW	REVISED -
PLOT SCALE = 40.0000' / in.	DRAWN - MJO	REVISED -
PLOT DATE = 12/6/2023	CHECKED - JJF	REVISED -
	DATE - 12/6/2023	FILE - 161141_SHT-SOQ.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 13 OF 19 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	16
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

REVISOR SHEET 2/21/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF GURNEE	100% VILLAGE OF GURNEE
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	INTERCONNECT 0021 URBAN	EVP 0021 URBAN	UTILITIES 0043 URBAN
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	923	923				
* 81028200	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	2,942		950	1,992		
* 81028220	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	213		213			
* 81028240	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	498		498			
* 81400100	HANDHOLE	EACH	3		1	2		
* 81400200	HEAVY-DUTY HANDHOLE	EACH	5		5			
* 81400300	DOUBLE HANDHOLE	EACH	2		2			
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2			2		
* 86400100	TRANSCEIVER - FIBER OPTIC	EACH	1		+	1		
* 87300925	ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7,086			7,086		
* 87301225	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C	FOOT	712		712			
* 87301245	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	1,913		1,913			
* 87301255	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,956		1,956			
* 87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,655		2,655			
* 87301805	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	35		35			

* INDICATES SPECIALTY ITEM
 \$ INDICATES CONSTRUCTION CODE 0042 TRAINEES

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2020
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PLOT SCALE = 40.0000' / in.	CHECKED - JJF	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 14 OF 19 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	17
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

1 REVISED SHEET 2/21/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF GURNEE	100% VILLAGE OF GURNEE
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	INTERCONNECT 0021 URBAN	EVP 0021 URBAN	UTILITIES 0043 URBAN
* 87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,190		1,190			
* 87502500	TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1		1			
* 87700190	STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1		1			
* 87700220	STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1		1			
* 87700240	STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1		1			
* 87700270	STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1		1			
* 87702940	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1		1			
* 87800100	CONCRETE FOUNDATION, TYPE A	FOOT	8		8			
* 87800150	CONCRETE FOUNDATION, TYPE C	FOOT	4		4			
* 87800415	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	61		61			
* 87900200	DRILL EXISTING HANDHOLE	EACH	1			1		
* 87900205	DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1			1		
* 88030020	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10		10			
* 88030050	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5		5			
* 88030070	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1		1			

* INDICATES SPECIALTY ITEM
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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 15 OF 19 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	18
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

△ REVISED SHEET 2/21/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF GURNEE	100% VILLAGE OF GURNEE
				ROADWAY 0004 URBAN	TRAFFIC SIGNALS 0021 URBAN	INTERCONNECT 0021 URBAN	EVP 0021 URBAN	UTILITIES 0043 URBAN
* 88030080	SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1		1	△		
* 88030110	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2		2			
* 88200410	TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13		13	△		
* 88500100	INDUCTIVE LOOP DETECTOR	EACH	8		8			
* 88600100	DETECTOR LOOP, TYPE I	FOOT	355		355			
* 88700200	LIGHT DETECTOR	EACH	3				3	
* 88700300	LIGHT DETECTOR AMPLIFIER	EACH	1				1	
* 89000100	TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1		1			
* 89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7,635			7,635		
* 89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1		1			
* 89502380	REMOVE EXISTING HANDHOLE	EACH	8		6	2		
* 89502382	REMOVE EXISTING DOUBLE HANDHOLE	EACH	1		1			
* 89502385	REMOVE EXISTING CONCRETE FOUNDATION	EACH	6		6			
* A2001016	TREE, ACER RUBRUM (RED MAPLE), 2" CALIPER, BALLED AND BURLAPPED	EACH	7	7				
* A2005816	TREE, PLATANUS OCCIDENTALIS (SYCAMORE), 2" CALIPER, BALLED AND BURLAPPED	EACH	9	9				

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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NONE SHEET 16 OF 19 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	19
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

REVISOR'S MARK: REVISED SHEET 2/21/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF GURNEE	100% VILLAGE OF GURNEE
				ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP	UTILITIES
				0004 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0043 URBAN
* A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	8	8				
X2080252	TRENCH BACKFILL, WATERMAIN	CU YD	760					760
* X0324095	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	721				721	
* X0324599	ROD AND CLEAN EXISTING CONDUIT	FOOT	3,735			3,735		
* X0326309	RELOCATE EXISTING REMOTE - CONTROLLED VIDEO SYSTEM (SPECIAL)	EACH	1		1			
* X0326310	RELOCATE EXISTING SWITCH (SPECIAL)	EACH	2		2			
X6026616	GATE VALVE, 8" WITH VAULT BOX	EACH	1					1
X0327301	RELOCATE EXISTING MAILBOX	EACH	5	5				
X6026610	GATE VALVE 8" WITH VAULT, 4' DIAMETER	EACH	2					2
* X0327698	LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3		3			
X0900075	COFFERDAM (TYPE 1) (IN-STREAM WETLAND WORK)	EACH	2	2				
X5610650	ABANDON EXISTING WATER MAIN, FILL WITH CLSM	L SUM	1					1
X1200221	NON-PRESSURE CONNECTION TO EXISTING WATER MAIN	EACH	3					3
* X1400007	FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	5,484			5,484		
* X1400081	FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1		1			

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES	
SCALE: NONE	SHEET 18 OF 19 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	21
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

△ REVISED SHEET 2/21/2024

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE				
				90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	90% FEDERAL 10% STATE	100% VILLAGE OF GURNEE	100% VILLAGE OF GURNEE
				ROADWAY	TRAFFIC SIGNALS	INTERCONNECT	EVP	UTILITIES
				0004 URBAN	0021 URBAN	0021 URBAN	0021 URBAN	0043 URBAN
* X5611208	DUCTILE IRON SLEEVE, 8"	EACH	3					3
* X6025604	PROPOSED MANHOLE/CATCH BASIN CONNECTION OVER EXISTING STORM SEWER	EACH	1	1				
X6420100	SHOULDER RUMBLE STRIP REMOVAL	SQ YD	942	942				
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	14	14				
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1				
* X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	17	17				
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	23	23				
X7830052	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REPLACEMENT	EACH	23	23				
* X8620200	UNINTERRUPTABLE POWER SUPPLY (SPECIAL)	EACH	1		1			
X8710024	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1,602			1,602		
X8809005	LED SIGNAL FACE, LENS COVER	EACH	19	19				
* X8811001	VIDEO DETECTION SYSTEM	EACH	1		1			
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1				
Z0022800	FENCE REMOVAL	FOOT	113	113				
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	103	103				
* Z0033046	RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3			3		

* INDICATES SPECIALTY ITEM
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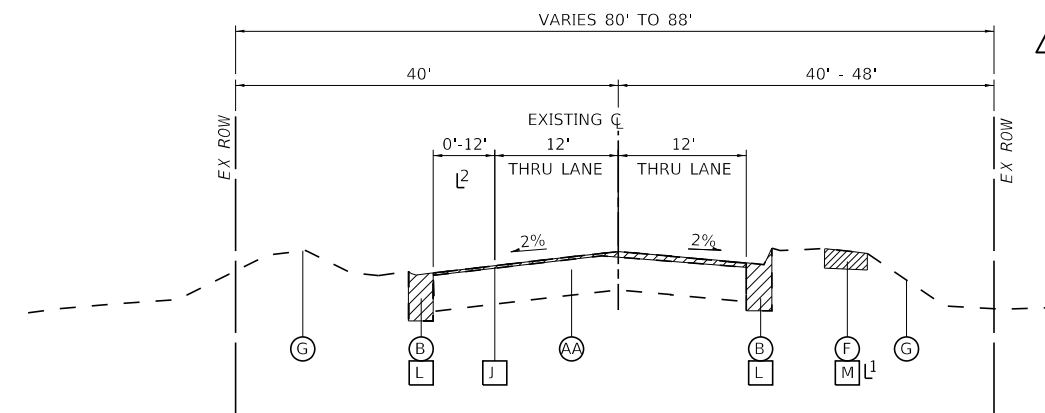
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EXISTING LEGEND

- AA HOT-MIX ASPHALT PAVEMENT
- AB PORTLAND CEMENT CONCRETE PAVEMENT
- B COMBINATION CONCRETE CURB AND GUTTER
- C PCC MEDIAN
- D CONCRETE BARRIER, DOUBLE FACE, 32 INCH
- E HOT-MIX ASPHALT SHOULDER
- F PCC SIDEWALK
- G GROUND SURFACE
- H PAVEMENT REMOVAL
- I HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- J HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH (3/4" MIN)
- K MEDIAN REMOVAL
- L COMBINATION CURB AND GUTTER REMOVAL
- M SIDEWALK REMOVAL
- ITEM TO BE REMOVED

PROPOSED LEGEND

- 1A HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 - 1 1/2"
- 1B POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 - 1 3/4"
- 2A HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70-VARIABLE DEPTH (2 1/4" MIN)
- 2B POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"
- 3A HOT-MIX ASPHALT BASE COURSE WIDENING - 7" (WIDENING ≤ 6')
- 3B HOT-MIX ASPHALT BASE COURSE - 7" (WIDENING > 6')
- 4A HOT-MIX ASPHALT BASE COURSE WIDENING - 9 1/4" (WIDENING ≤ 6')
- 4B HOT-MIX ASPHALT BASE COURSE - 9 1/4" (WIDENING > 6')
- 4C PORTLAND CEMENT CONCRETE BASE COURSE WIDENING - 9 1/2" (WIDENING < 4')
- 5 HMA SHOULDER - 8"
- 6 AGGREGATE SUBGRADE IMPROVEMENT - 12"
- 6A SUBBASE GRANULAR MATERIAL, TYPE C
- 7 AGGREGATE SUBGRADE IMPROVEMENT (CU YD) (SEE NOTE)
- 8 AGGREGATE BASE COURSE, TYPE B - 4"
- 9 CONCRETE MEDIAN SURFACE - 4"
- 10 COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.12 (MINIMUM FLAG DEPTH SHALL BE 9")
- 11 COMBINATION CONCRETE CURB AND GUTTER TYPE B-6.24 (MINIMUM FLAG DEPTH SHALL BE 9")
- 12 PORTLAND CEMENT CONCRETE SIDEWALK - 5"
- 13 SUB-BASE GRANULAR MATERIAL, TYPE B
- 14 TOPSOIL EXCAVATION AND PLACEMENT - 6" (SEE LANDSCAPING PLANS)
- 15 CLASS D PATCHES (AS DETERMINED BY THE ENGINEER)
- 16 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION

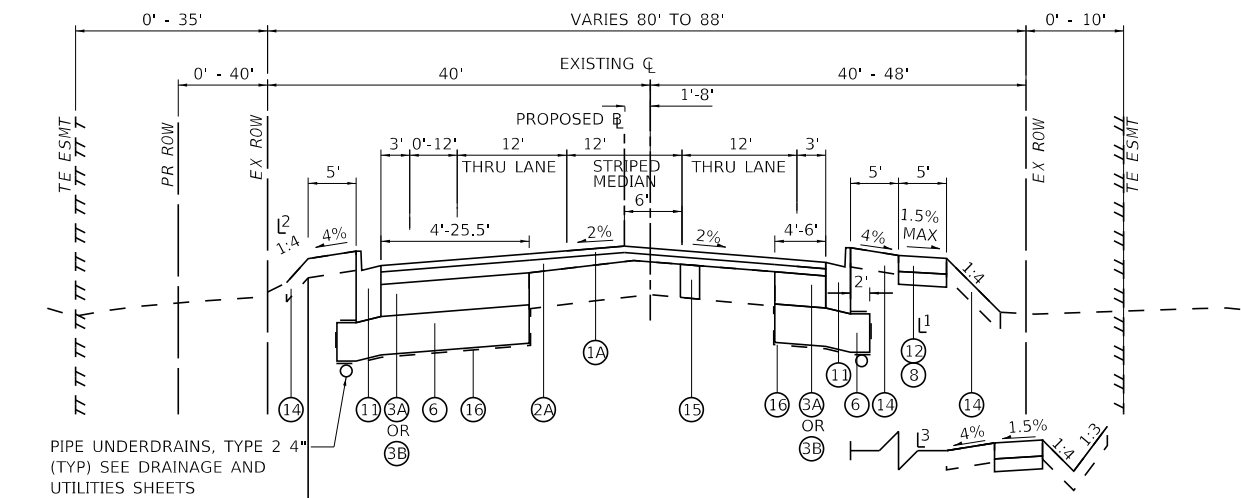


**EXISTING TYPICAL SECTION
STEARNS SCHOOL ROAD**

1 STA 1095+70 TO STA 1102+67
 2 BYPASS LANE STA 1100+39 TO STA 1102+90
 STA 1094+38 TO STA 1102+90

MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMNT PROGRAM (QMP)
PAVEMENT RESURFACING - STEARNS SCHOOL ROAD		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 - 1 1/2"	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)	4% @ 70 Gyr.	QC/QA
PAVEMENT RESURFACING - US ROUTE 41		
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 - 1 3/4"	3.5% @ 80 Gyr.	QC/QA
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"	3.5% @ 50 Gyr.	QC/QA
PAVEMENT WIDENING 10 3/4" - STEARNS SCHOOL ROAD		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 - 1 1/2"	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - VARIABLE DEPTH (2 1/4" MIN)	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0), N70 - 7" (WIDENING ≤ 6')	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0), N70 - 7" (WIDENING > 6')	4% @ 70 Gyr.	QC/QA
PAVEMENT WIDENING 11 3/4" - US ROUTE 41		
POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 - 1 3/4"	3.5% @ 80 Gyr.	QC/QA
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 - 3/4"	3.5% @ 50 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER IL-19.0), N90 - 9 1/4" (WIDENING ≤ 6')	4% @ 90 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0), N90 - 9 1/4" (WIDENING > 6')	4% @ 90 Gyr.	QC/QA
HMA SHOULDERS 8"		
HMA SURFACE COURSE, MIX "D", IL-9.5, N70 - 1 3/4"	4% @ 70 Gyr.	QC/QA
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 - 6 1/4"	4% @ 70 Gyr.	QC/QA
DRIVEWAY 2 1/2" - STEARNS SCHOOL ROAD & FULLER ROAD - PE AND CE		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 - 2 1/2"	4% @ 50 Gyr.	QC/QA
DRIVEWAY 8" - US ROUTE 41 - PRIVATE ENTRANCE DRIVEWAY		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50 - 2"	4% @ 50 Gyr.	QC/QA
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19.0); PE-6"	4% @ 50 Gyr.	QC/QA
SHOULDER RUMBLE STRIP REMOVAL		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 - 2"	4% @ 70 Gyr.	QC/QA
PATCHING - STEARNS SCHOOL ROAD & US ROUTE 41		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 Gyr.	QC/QA
QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)		

NOTES:
 1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
 2. THE AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY RECLAIMED MATERIAL SPECIFICATIONS.



**PROPOSED TYPICAL SECTION
STEARNS SCHOOL ROAD**

1 STA 1095+70 TO STA 1102+67
 2 1:3 STA 1098+00 TO STA 1102+90
 3 STA 1098+40 TO STA 1099+05
 STA 1099+50 TO STA 1100+20
 STA 1100+97 TO STA 1102+27
 4 DEPRESSIONAL STORAGE STA 1099+50 TO STA 1100+05

NOTES:
 GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

CURB AND GUTTER FLAG DEPTH SHALL BE A MINIMUM OF 9" OR MATCH THE DEPTH OF THE ADJACENT PAVEMENT THICKNESS, WHICHEVER IS GREATER.
 GUTTER FLAG SHALL BE 1/4" BELOW THE EDGE OF PAVEMENT.
 THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE TOP HMA BINDER COURSE, IL-19.0, N70 LIFT.

1 REVISED SHEET 2/20/2024



USER NAME = cmcgovern	DESIGNED - AMW	REVISED - 2/8/2024
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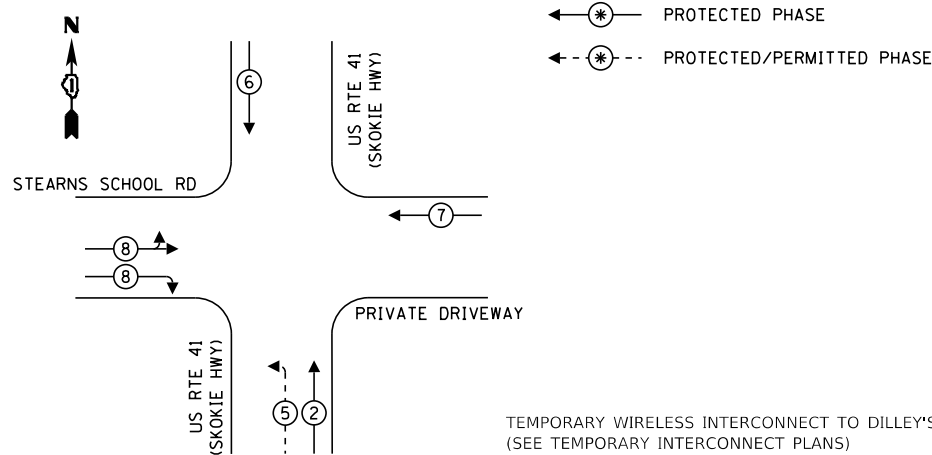
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS
STEARNS SCHOOL ROAD**

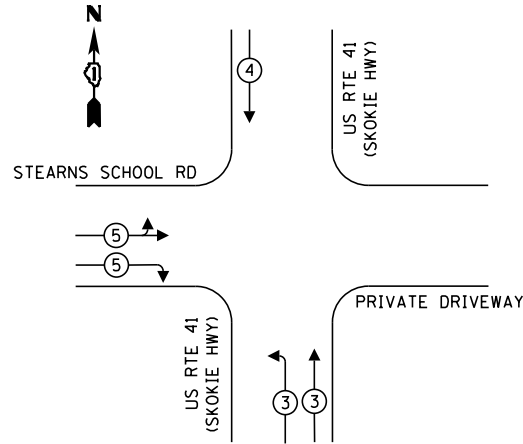
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F.A.P. RTE. 346	SECTION 2023-917-TL	COUNTY LAKE	TOTAL SHEETS 173	SHEET NO. 23
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-946(773)				

TEMPORARY CONTROLLER SEQUENCE LEGEND:



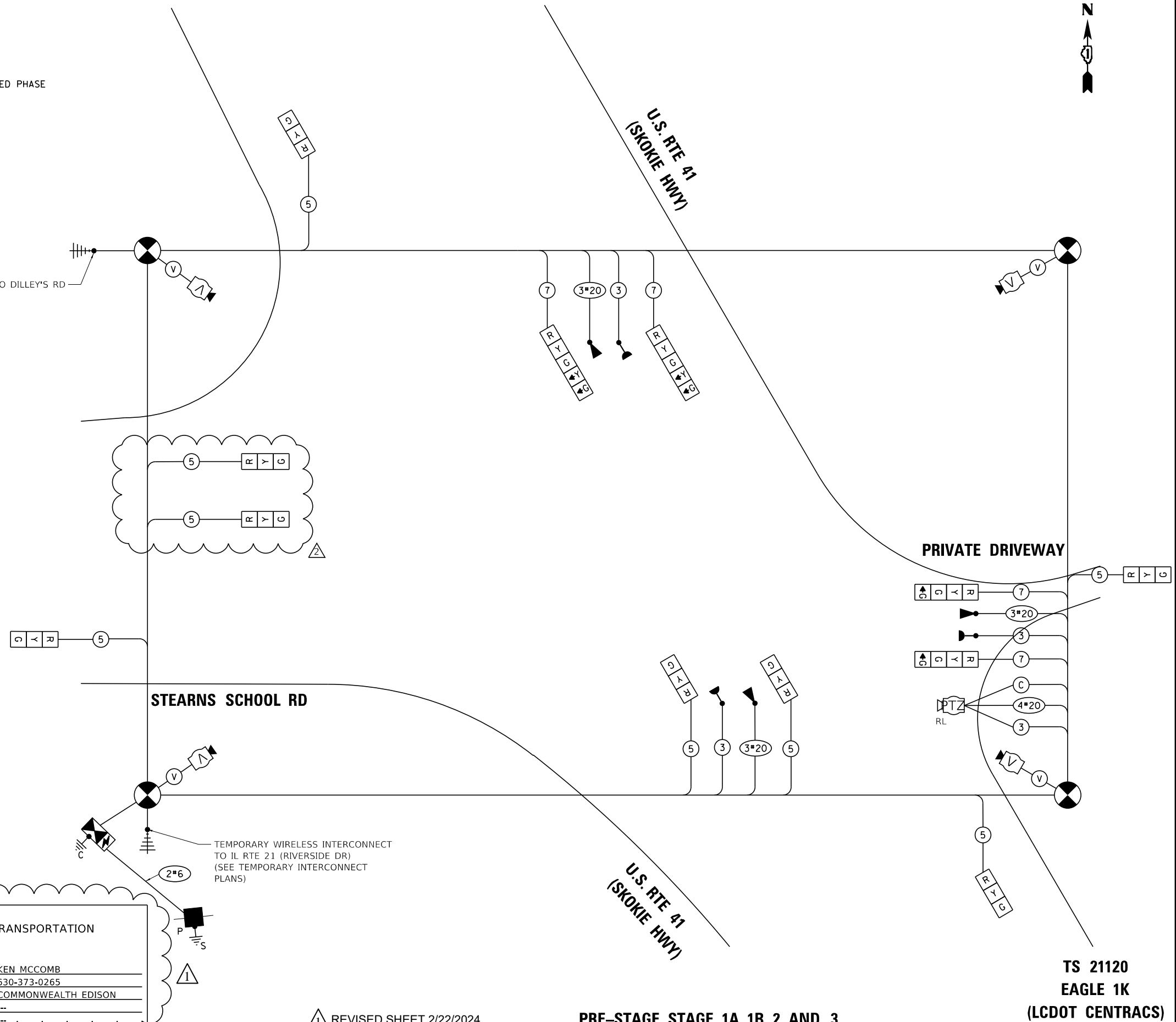
PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	8	11	88
4-SECTION	2	14	28
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		397	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1002	

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: KEN MCCOMB
 PHONE: 630-373-0265
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---
 METER NUMBER: ---



STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM LICENSE NO. - 184-001121 - EXPIRES 4/30/2020 morning 2/21/2024
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USER NAME = mornjy	DESIGNED - SAM	REVISED - 2-20-2024
PLOT SCALE = 40,0000 ' / in.	DRAWN - MJO	REVISED -
PLOT DATE = 2/21/2024	CHECKED - JJF	REVISED -
	DATE - 12/6/2023	FILE - 161141_SHT-TS_Temp_Cable Plan.dgn

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM, AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 U.S. RTE 41 (SKOKIE HIGHWAY) AND STEARNS SCHOOL RD

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

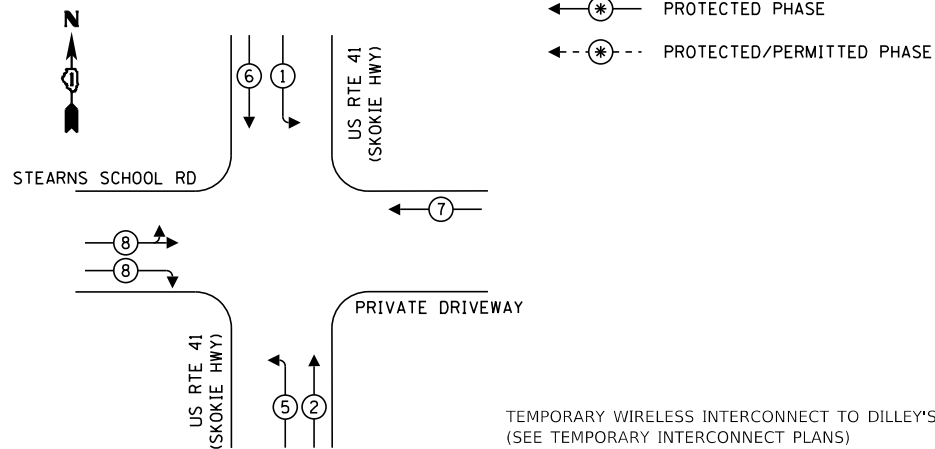
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2023-917-TL	LAKE	173	125
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

TS 21120
 EAGLE 1K
 (LCDOT CENTRACS)

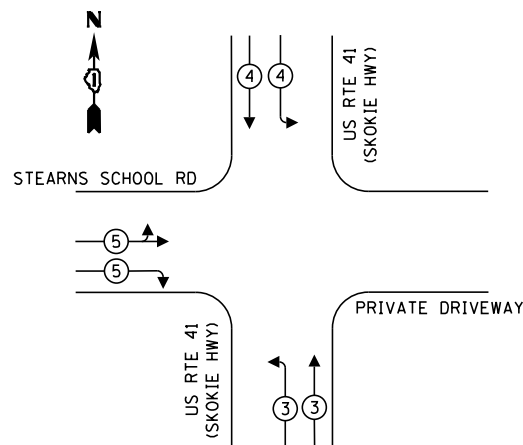
REVISI REVISION SHEET 2/22/2024

PRE-STAGE, STAGE 1A, 1B, 2, AND 3

TEMPORARY CONTROLLER SEQUENCE LEGEND:



PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	13	11	143
4-SECTION	4	14	56
5-SECTION	-	13	-
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL	-	15	-
CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		454	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	-	15	-
LED STREET NAME SIGN	-	120	-
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1059	

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: KEN MCCOMB
 PHONE: 630-373-0265
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---
 METER NUMBER: ---

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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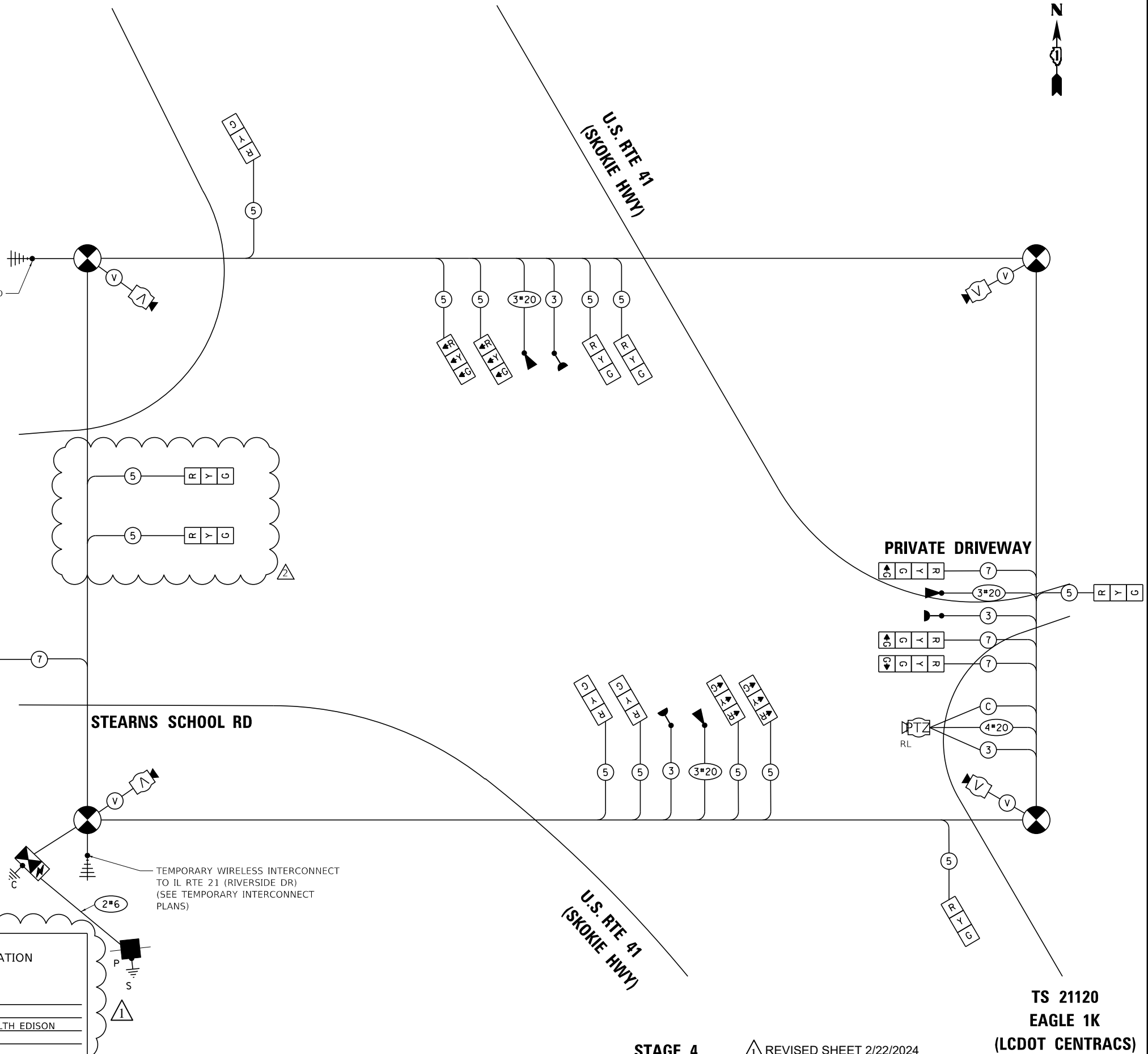


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PLOT DATE = 2/21/2024	CHECKED - JJF	REVISED -
	DATE - 12/6/2023	FILE - 161141_SHT-TS_Temp_Cable_Plan-Stage4.dgn

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TEMPORARY CABLE PLAN, TEMPORARY PHASE DESIGNATION DIAGRAM,
 AND TEMPORARY EMERGENCY VEHICLE PREEMPTION SEQUENCE
 U.S. RTE 41 (SKOKIE HIGHWAY) AND STEARNS SCHOOL RD**

F.A.P. RTE. 346	SECTION 2023-917-TL	COUNTY LAKE	TOTAL SHEETS 173	SHEET NO. 126
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

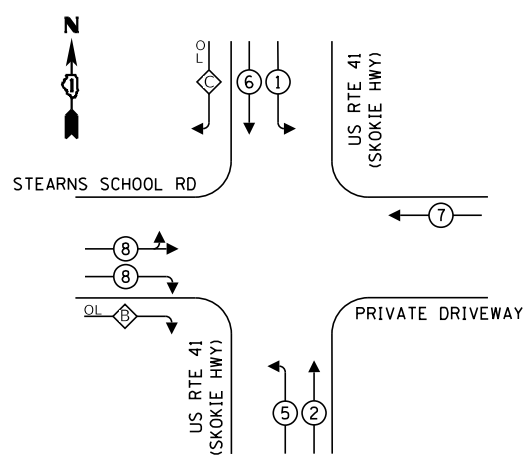


STAGE 4 REVISED SHEET 2/22/2024

**TS 21120
 EAGLE 1K
 (LCDOT CENTRACS)**



PROPOSED CONTROLLER SEQUENCE



LEGEND:

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

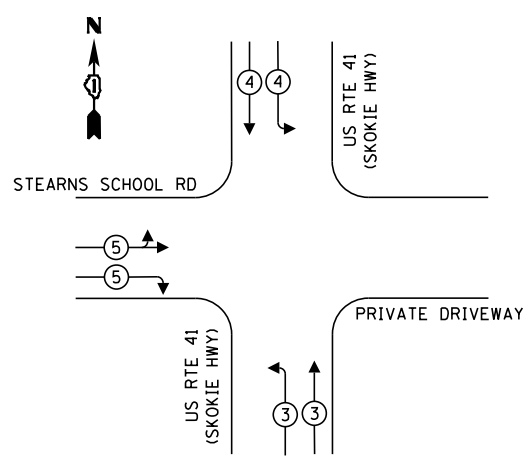
RIGHT TURN OVERLAP PHASE DESIGNATION:

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	= 8	+ 5
C	= 6	+ 8

LEGEND:

- ⊙ ONC OUTDOOR RATED NETWORK CABLE
- ⊙ 24SM FIBER OPTIC CABLE IN CONDUIT 24 SINGLE MODE
- ⊙ 36F FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)

PROP. INTERCONNECT TO DILLEY'S RD

PROP. TRACER CABLE

LED INTERNALLY ILLUMINATED STREET NAME SIGN (TYP)

SUPER P CABINET

TRACER CABLE INTERCONNECT TO IL RTE 21 (RIVERSIDE DR)

NOTE: 1. ALL RED INDICATIONS SHALL HAVE A LENS COVER

TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

EQUIPMENT TYPE	QUANTITY	UNIT WATTAGE	TOTAL WATTAGE
SIGNAL HEAD 1 OR 3-SECTION	15	11	165
4-SECTION	2	14	28
5-SECTION	2	13	26
PROGRAMMABLE 3-SECTION	-	22	-
4-SECTION	-	32	-
5-SECTION	-	28	-
PEDESTRIAN SIGNAL CONTROLLER	1	150	150
MASTER CONTROLLER	-	100	-
UPS	1	25	25
DETECTION RADAR OR VIDEO	4	20	80
BLANK-OUT SIGN	-	25	-
NETWORK SWITCH II OR III	-	35	-
CELLULAR MODEM	-	15	-
TOTAL UPS SIZING		474	
UPS CHARGING	1	225	225
BATTERY HEATER MAT	1	180	180
CABINET HEATER	1	200	200
FLASHER	1	15	15
LED STREET NAME SIGN	3	120	360
LUMINAIRE	-	240	-
TOTAL SERVICE WIRE SIZING		1454	

ENERGY COSTS TO:
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 201 WEST CENTER COURT
 SCHAUMBURG, IL 60196-1096
 ENERGY SUPPLY: CONTACT: KEN MCCOMB
 PHONE: 630-373-0265
 COMPANY: COMMONWEALTH EDISON
 ACCOUNT NUMBER: ---
 METER NUMBER: ---



USER NAME = mornjly	DESIGNED - SAM	REVISED - 2-20-2024
PLOT SCALE = 40,0000 ' / in.	DRAWN - MJO	REVISED -
PLOT DATE = 2/20/2024	CHECKED - JJF	REVISED -
	DATE - 12/6/2023	FILE - 161141_SHT-TS_Cable Plan_01.dgn

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, AND EMERGENCY PREEMPTION SEQUENCE
 U.S. RTE 41 (SKOKIE HIGHWAY) AND STEARNS SCHOOL RD

F.A.P. RTE. 346	SECTION 2023-917-TL	COUNTY LAKE	TOTAL SHEETS 173	SHEET NO. 129
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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TS 21120
 EAGLE 1K
 (LCDOT CENTRACS)

REVISI REVISION SHEET 2/21/2024

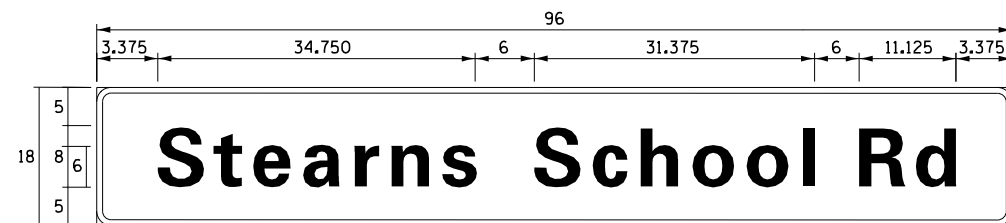
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

LED INTERNALLY ILLUMINATED STREET NAME SIGN

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	13.75	2	ZZ	1



DESIGN SERIES	AREA (SQ FT)	SIGN PANEL TYPE	SHEETING TYPE	QTY. REQUIRED
D	12.00	2	ZZ	2

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGN DETAIL.

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
SIGN PANEL - TYPE 1	SQ FT	57
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	950
UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.	FOOT	213
UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.	FOOT	498
HANDHOLE	EACH	1
HEAVY DUTY HANDHOLE	EACH	5
DOUBLE HANDHOLE	EACH	2
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 3C	FOOT	712
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 5C	FOOT	2,227
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO. 14 7C	FOOT	1,641
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	2,655
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2C	FOOT	35
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	1,190
TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 36 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 40 FT.	EACH	1
STEEL MAST ARM ASSEMBLY AND POLE, 46 FT.	EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE 42 FT.	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	8
CONCRETE FOUNDATION, TYPE C	FOOT	4
CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER	FOOT	61
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED	EACH	10
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED	EACH	5
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, BRACKET MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 4-SECTION, MAST ARM MOUNTED	EACH	1
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED	EACH	2
TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC	EACH	13
INDUCTIVE LOOP DETECTOR	EACH	8
DETECTOR LOOP, TYPE I	FOOT	355
* LIGHT DETECTOR	EACH	3
* LIGHT DETECTOR AMPLIFIER	EACH	1
TEMPORARY TRAFFIC SIGNAL INSTALLATION	EACH	1
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
REMOVE EXISTING HANDHOLE	EACH	6
REMOVE EXISTING DOUBLE HANDHOLE	EACH	1
REMOVE EXISTING CONCRETE FOUNDATION	EACH	6
* EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C	FOOT	721
RELOCATE EXISTING REMOTE - CONTROLLED VIDEO SYSTEM (SPECIAL)	EACH	1
RELOCATE EXISTING SWITCH (SPECIAL)	EACH	2
VIDEO DETECTION SYSTEM	EACH	1
LED INTERNALLY ILLUMINATED STREET NAME SIGN	EACH	3
FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET (SPECIAL)	EACH	1
OUTDOOR RATED NETWORK CABLE	FOOT	264
SERVICE INSTALLATION, GROUND MOUNTED, METERED	EACH	1
REMOTE CONTROLLED VIDEO SYSTEM	EACH	1
RELOCATE EXISTING ENCODER	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
LED SIGNAL FACE, LENS COVER	EACH	19
POST MOUNTED FLASHING BEACON INSTALLATION (SPECIAL)	EACH	1
TEMPORARY TRAFFIC SIGNAL TIMING	EACH	1
ELECTRIC CABLE IN CONDUIT, STREET NAME SIGN, NO. 14 3C, TYPE SOOW	FOOT	641
* 100% COST TO THE VILLAGE OF GURNEE		

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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USER NAME = morning	DESIGNED - SAM	REVISED - 2-20-2024
PLOT SCALE = 40.0000 "/>		
PLOT DATE = 2/20/2024	DATE - 12/6/2023	FILE - 161141_SHT-TS_Detail_Signs_01.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

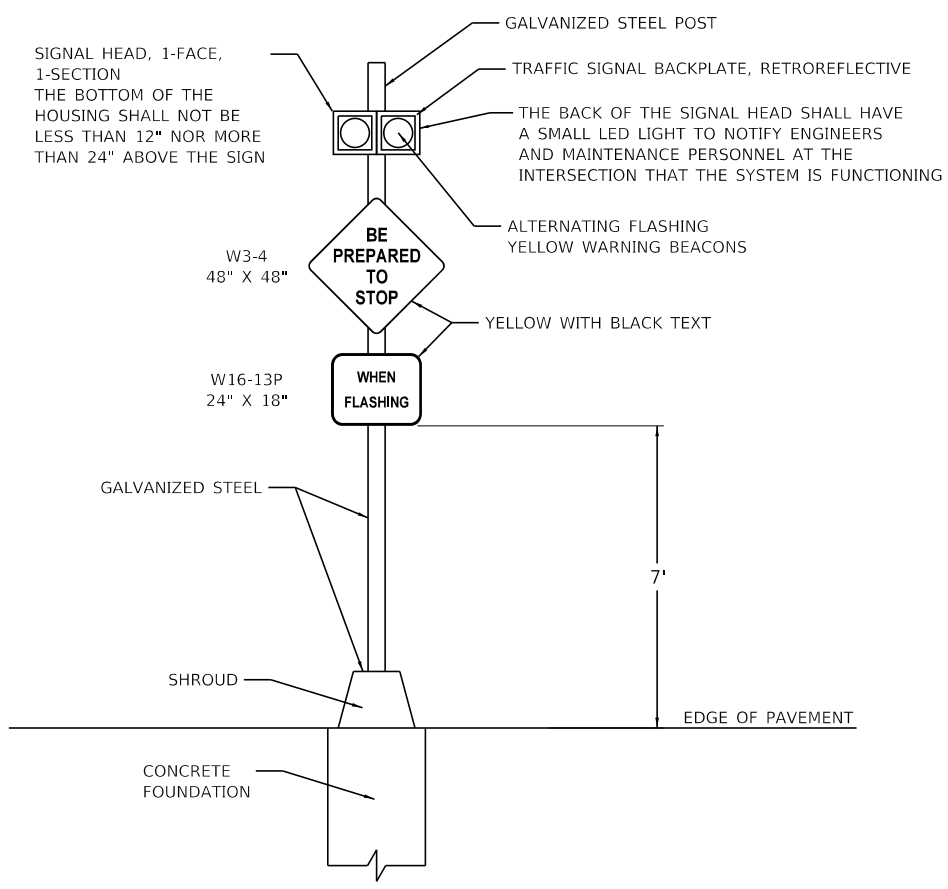
MAST ARM MOUNTED STREET NAME SIGNS &
AND SCHEDULE OF QUANTITIES
U.S. RTE 41 (SKOKIE HIGHWAY) AND STEARNS SCHOOL RD

F.A.P. RTE. 346	SECTION 2023-917-TL	COUNTY LAKE	TOTAL SHEETS 173	SHEET NO. 130
CONTRACT NO. 62W53				
ILLINOIS FED. AID PROJECT HSIP-9AR6(773)				

REVISD SHEET 2/21/2024

TS 21120
EAGLE 1K
(LCDOT CENTRACS)

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 LICENSE NO. - 184-001121 - EXPIRES 4/30/2020
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**POST MOUNTED FLASHING BEACON INSTALLATION
(SPECIAL)**

POSTS				
POLE I.D.	STATION	OFFSET	POST TYPE/MOUNTING TYPE	FOUNDATION
1	2220+20	65.15' LT.	FLASHING BEACON MOUNTED TO POLE	TYPE A, 24" DIA, 4'



USER NAME = mornij	DESIGNED - SAM	REVISED - 2-20-2024
PLOT SCALE = 40,0000 ' / in.	CHECKED - JJF	REVISED -
PLOT DATE = 2/20/2024	DATE - 12/6/2023	FILE - 161141_SHT-TS_Detail_Signs_02.dgn

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE. 346	SECTION 2023-917-TL	COUNTY LAKE	TOTAL SHEETS 173	SHEET NO. 131
CONTRACT NO. 62W53			ILLINOIS FED. AID PROJECT HSIP-9AR6(773)	

REVISED SHEET 2/21/2024

STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
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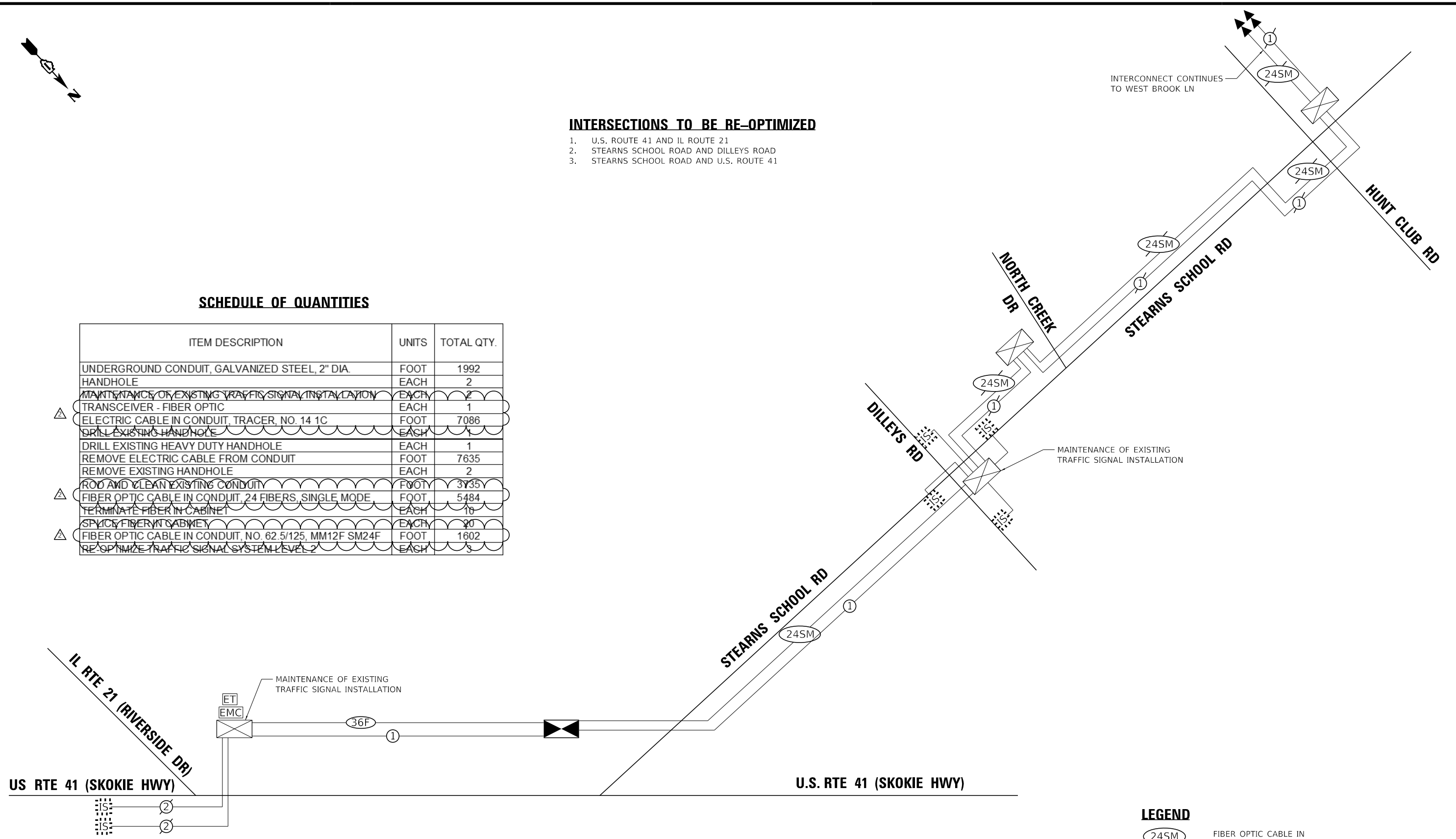


INTERSECTIONS TO BE RE-OPTIMIZED

1. U.S. ROUTE 41 AND IL ROUTE 21
2. STEARNS SCHOOL ROAD AND DILLEYS ROAD
3. STEARNS SCHOOL ROAD AND U.S. ROUTE 41

SCHEDULE OF QUANTITIES

ITEM DESCRIPTION	UNITS	TOTAL QTY.
UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.	FOOT	1992
HANDHOLE	EACH	2
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
TRANSCEIVER - FIBER OPTIC	EACH	1
ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C	FOOT	7086
DRILL EXISTING HANDHOLE	EACH	1
DRILL EXISTING HEAVY DUTY HANDHOLE	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	7635
REMOVE EXISTING HANDHOLE	EACH	2
ROD AND CLEAN EXISTING CONDUIT	FOOT	3735
FIBER OPTIC CABLE IN CONDUIT, 24 FIBERS, SINGLE MODE	FOOT	5484
TERMINATE FIBER IN CABINET	EACH	10
SERVICE FIBER IN CABINET	EACH	20
FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F	FOOT	1602
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM LEVEL 2	EACH	3



LEGEND

	FIBER OPTIC CABLE IN CONDUIT 24 SINGLE MODE
	FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM24F

REVISED SHEET 2/21/2024

**EAGLE 1K
(LCDOT CENTRACS)**

BAXTER & WOODMAN CONSULTANTS	USER NAME = mmorning	DESIGNED - SAM	REVISED - 2-20-2024	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PROPOSED INTERCONNECT SCHEMATIC		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	CHECKED - JJF	REVISED -		STEARNS SCHOOL RD - HUNT CLUB RD TO U.S. RTE 41 (SKOKIE HWY) U.S. RTE 41 - IL RTE 21 (RIVERSIDE DR) TO STEARNS SCHOOL RD		346	2023-917-TL	LAKE	173	139
PLOT DATE = 2/20/2024	DATE - 12/6/2023	FILE - 161141_SHT-TS_Interconnect_Schematic_01.dgn		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT HSIP-9AR6(773)		CONTRACT NO. 62W53		