

01-20-2023 LETTING ITEM 048

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

FUNCTIONAL CLASSIFICATION
LIBERTY STREET - MAJOR COLLECTOR

TRAFFIC DATA
LIBERTY STREET
2020 ADT = 9,650

POSTED SPEED LIMIT
LIBERTY STREET = 40 MPH

DESIGN SPEED LIMIT
LIBERTY STREET = 40 MPH

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAUMBURG, IL

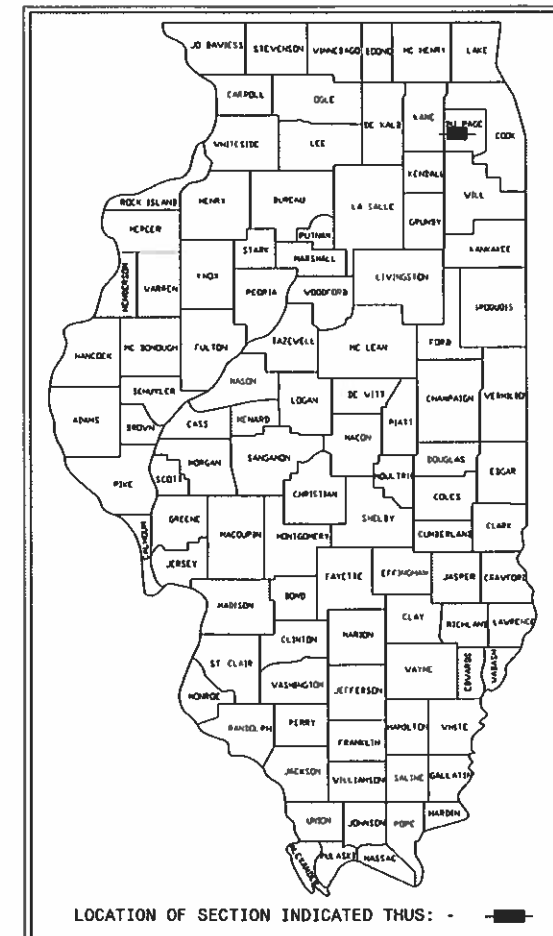
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

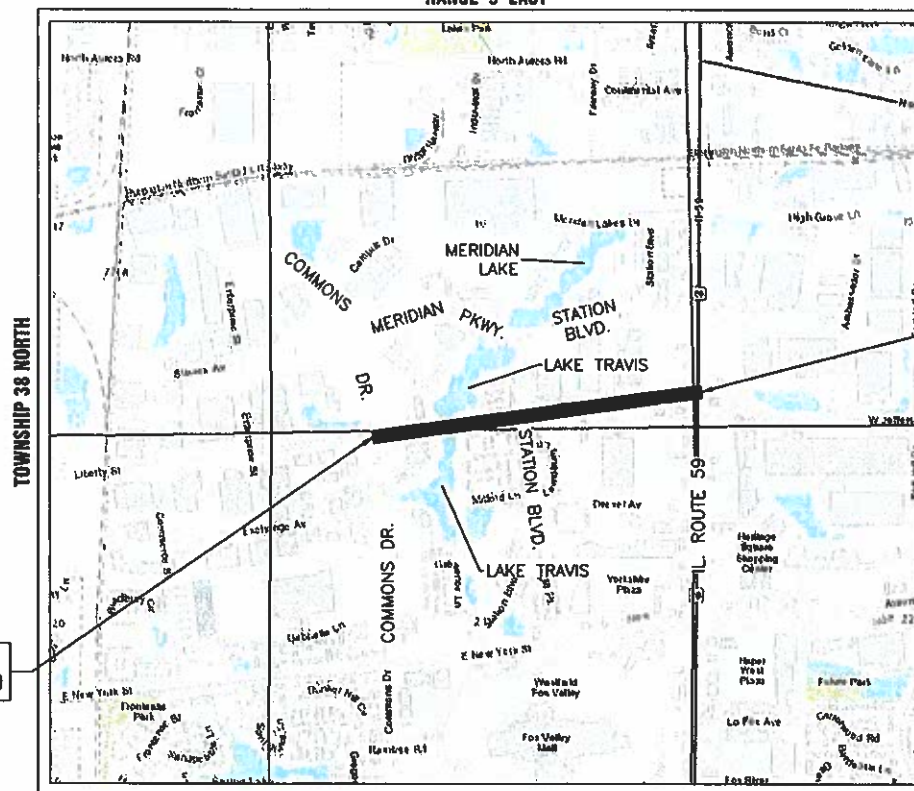
FAU ROUTE 3570 (LIBERTY STREET)
COMMONS DRIVE TO ILLINOIS ROUTE 59
ROADWAY RESURFACING
SECTION NO.: 22-00347-00-RS
PROJECT NO.: PYGX(374)
CITY OF AURORA
DUPAGE COUNTY

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	1
		ILLINOIS	CONTRACT NO. 61J13	



C-91-162-22

RANGE 9 EAST



BEGIN PROJECT
STA: 102+00.00

END PROJECT
STA: 142+40.5

DUPAGE COUNTY- NAPERVILLE TOWNSHIP
THIRD PRINCIPAL MERIDIAN

LOCATION MAP
NOT TO SCALE

GROSS LENGTH OF PROJECT = 4,040.50 FEET (0.765 MILES)
NET LENGTH OF PROJECT = 4,040.50 FEET (0.765 MILES)



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
811 OR 1-800-892-0123

Dial 811 or 1-800-892-0123 JULIE DESIGN TICKET NUMBER: # X221871609



Know what's below.
Call before you dig.

WITH THE FOLLOWING:
COUNTY DUPAGE COUNTY
CITY-TOWNSHIP AURORA-NAPERVILLE TOWNSHIP
SEC. & 1/4 SEC. NO. 15.16.21-38 N.-9 E.

(?) Working Days before you dig
(Excluding Sat., Sun. & Holidays)

CONTRACT NO. 61J13

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED October 27 2022
Timothy V. Weidner
CITY OF AURORA, ENGINEERING COORDINATOR

PASSED Nov 7 2022
C. Rosh
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW NOVEMBER 7 2022
Jose Rios
REGIONAL ENGINEER



SEAL
Timothy V. Weidner
TIMOTHY V. WEIDNER, P.E.
EXPIRES: NOVEMBER 30, 2023

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701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
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GENERAL NOTES

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN THE ILLINOIS DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", JANUARY 1, 2022 AND SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS. IN ADDITION, THE CONTRACTOR MUST VERIFY THE ENGINEER'S LINE AND GRADE STAKES. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLANS AND FIELD CONDITIONS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY THE IDENTIFIED DISCREPANCIES.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNER OF ALL EXISTING UTILITIES FACILITIES SO THAT THE UTILITIES AND THEIR APPURTENANCES MAY BE LOCATED AND ADJUSTED OR MOVED, IF NECESSARY, PRIOR TO THE START OF CONSTRUCTION OPERATIONS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON CITY, STATE, OR PRIVATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE ENGINEER.
- THE STORAGE OF EQUIPMENT AND/OR MATERIALS WITHIN THE RIGHT-OF-WAY OF ANY STREET AND/OR PARK PROPERTY SHALL REQUIRE PRIOR APPROVAL OF THE ENGINEER.
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES, EDGE OF PAVEMENT, ETC. ARE FROM THE ROADWAY CENTERLINE.
- SIDEWALK REMOVAL AND REPLACEMENT AND COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT AS SHOWN ON THE PLANS IS FOR INFORMATIONAL PURPOSES ONLY. ACTUAL LOCATIONS AND QUANTITIES ARE TO BE DETERMINED AND MARKED BY THE ENGINEER PRIOR TO CONSTRUCTION.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS.
- THE CONTRACTOR SHALL VERIFY THAT ALL CRACKS, JOINTS, AND FLANGEWAYS ARE CLEAN AND DRY PRIOR TO PLACEMENT OF MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS.
- THE CONTRACTOR SHALL MAINTAIN THE SITE IN A CLEAN AND ORDERLY MANNER. DEBRIS AND SURPLUS MATERIAL SHALL BE REMOVED AND RESTORATION SHALL PROCEED AS THE WORK PROCEEDS. IF THE ENGINEER SO DIRECTS, THE CONTRACTOR SHALL STOP ALL OTHER WORK AND CONCENTRATE ON CLEAN-UP AND RESTORATION. DEBRIS AND SURPLUS MATERIAL SHALL BE DISPOSED BY THE CONTRACTOR OFF-SITE.
- DRIVEWAY ENTRANCES WILL BE KEPT OPEN TO TRAFFIC AT ALL TIMES. THE CONTRACTOR WILL BE ALLOWED TO CLOSE A MAXIMUM OF HALF THE AREA OF ANY ONE ENTRANCE AT ANY TIME. IT IS ESSENTIAL THAT THE ENTRANCES REMAIN OPEN AND 'DRIVE-ABLE' FOR TWO-WAY TRAFFIC AT ALL TIMES. THE CONTRACTOR WILL BE RESPONSIBLE FOR MAINTAINING TRAFFIC CONTROL AND PROTECTION. WHERE NEW CURB AND GUTTER IS TO BE INSTALLED ACROSS A DRIVEWAY, IT IS EXPECTED THAT ONLY HALF OF THE DRIVEWAY ENTRANCE MAY BE REMOVED AND REPLACED AT ANY ONE TIME. ONLY AFTER PROPER CONCRETE CURE TIME HAS OCCURRED MAY THE CONTRACTOR BEGIN REMOVAL AND REPLACEMENT OPERATIONS ON THE REMAINING HALF OF THE CURB AND GUTTER. THE CONTRACTOR WILL NOT BE ALLOWED TO CLOSE A HALF OF DRIVEWAY ENTRANCE FOR MORE THAN 48 HOURS UNDER ANY CIRCUMSTANCE.
- CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPLACED IN KIND PER ARTICLE 201.07 REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL REQUIREMENTS STATED HEREIN
- ALL CURB RAMPS ARE STANDARD AND SHALL BE CONSTRUCTED ACCORDING TO IDOT HIGHWAY STANDARDS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES WHERE THE SPEED IS 45 MPH OR LESS, WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.

UTILITIES

- ALL UTILITY COMPANIES AND THE CITY OF AURORA SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER.
- ONLY PRECAST CONCRETE ADJUSTMENT RINGS, MAXIMUM OF 12 INCHES IN HEIGHT, WILL BE ALLOWED IN THE ADJUSTMENT OF CATCH BASINS, MANHOLES, INLETS AND VALVE VAULT STRUCTURES. COMMON BRICK WILL NOT BE ALLOWED.
- THE CONTRACTOR SHALL ENSURE THAT ALL WATER SYSTEM VALVES (IN VALVE BOXES AND VALVE VAULTS) SHALL REMAIN READILY ACCESSIBLE TO THE CITY FOR EMERGENCY OPERATIONS AND NOT BURIED DURING CONSTRUCTION, UNLESS APPROVED BY THE ENGINEER. THE LOCATIONS OF ALL WATER FACILITIES SHALL BE MARKED AND READILY VISIBLE AT ALL TIMES. FOR ALL OTHER STRUCTURES THAT NEED TO BE ADJUSTED THAT ARE NOT WATER, THE CONTRACTOR CAN CHOOSE TO ADJUST THEM ACCORDING TO BD-08. THE CONTRACTOR CAN ALSO CHOOSE TO BURY WATER STRUCTURES ACCORDING TO BD-08 WITH APPROVAL BY THE ENGINEER. THE CONTRACTOR WOULD NEED TO PROVIDE A DETAILED SCHEDULE OF MILLING, PAVING AND ADJUSTMENT TIMELINES FOR THE ENGINEER'S REVIEW. APPROVAL BY THE ENGINEER IS NOT GUARANTEED AND WOULD BE CONTINGENT ON THE CONTRACTOR BURYING WATER STRUCTURES LAST AND ADJUSTING THEM FIRST. THE CONTRACTOR IS TO DETERMINE ANY PROTECTION OR RAMPING THAT IS REQUIRED AROUND STRUCTURES IF THEY ARE NOT BURIED. OPEN LID STORM MANHOLE STRUCTURES IN THE PAVEMENT MAY NOT BE ABLE TO BE ADJUSTED ACCORDING TO BD-08.
- THE INDISCRIMINATE USE OF FIRE HYDRANTS OR EXISTING STREAMS, CREEKS, WETLANDS OR PONDS IS STRICTLY PROHIBITED. THE CONTRACTOR SHALL PROVIDE A WATER TRUCK AND DRIVER AS REQUIRED TO OBTAIN AND TRANSPORT THIS WATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING WATER FROM AN APPROVED SOURCE. IF THIS WATER IS FROM A SOURCE OTHER THAN THEIR YARD, WRITTEN APPROVAL FROM THE AGENCY HAVING JURISDICTION FOR THE SOURCE OF THE WATER MUST BE RECEIVED BY THE ENGINEER PRIOR TO USE OF THE WATER.

SIGNING AND STRIPING

- ALL EXISTING SIGNS (INCLUDING THOSE LOCATED ON UTILITY/LIGHT POLES) THAT DO NOT CONFLICT WITH THE IMPROVEMENTS SHALL REMAIN IN PLACE UNLESS DIRECTED BY THE ENGINEER.
- SIGNS SHALL NOT BE MOVED OR COVERED UNTIL PROGRESS OF WORK NECESSITATES IT.
- SEE IDOT DISTRICT ONE DETAILS TC-13 (DISTRICT ONE TYPICAL PAVEMENT MARKINGS), AND TC-16 (SHORT TERM PAVEMENT MARKINGS LETTERS AND SYMBOLS) AND PLAN SHEETS FOR PAVEMENT MARKING DETAILS.
- GRINDING OF PAVEMENT MARKINGS ON NEWLY CONSTRUCTED HOT-MIX ASPHALT SHALL NOT BE PERMITTED.

COMMITMENTS

NONE AS OF 08/12/2022

COMPANY NAME: PROJECT CONTACT: 10/24/2022 10:13 AM
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PLOT DATE = 10/24/2022	DATE -- 10/24/2022	REVISED --

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, DETAILS, HIGHWAY STANDARDS AND GENERAL NOTES

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	02
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY		TRAINEES	
				75% FEDERAL 25% LOCAL 0005		75% FEDERAL 25% LOCAL 0042	
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	564	564			
* 25200110	SODDING, SALT TOLERANT	SQ YD	564	564			
* 25200200	SUPPLEMENTAL WATERING	UNIT	30.5	30.5			
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	19,440	19,440			
40600370	LONGITUDINAL JOINT SEALANT	FOOT	11,411	11,411			
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	11.5	11.5			
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	370	370			
* 40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1,584	1,584			
* 40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	3,225	3,225			
* 42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	3,715	3,715.0			
* 42400800	DETECTABLE WARNINGS	SQ FT	426	426			
* 44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	28,790	28,790			
44000600	SIDEWALK REMOVAL	SQ FT	3,715	3,715			
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	120	120			
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	230	230			
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	460	460			

* SEE SPECIAL PROVISIONS
 † INDICATES SPECIALTY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 01 OF 03 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	03
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	TRAINEES
				75% FEDERAL 25% LOCAL 0005	75% FEDERAL 25% LOCAL 0042
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	350	350	
60255500	MANHOLES TO BE ADJUSTED	EACH	10	10	
60260100	INLETS TO BE ADJUSTED	EACH	17	17	
60261300	INLETS TO BE ADJUSTED WITH NEW TYPE 11 FRAME AND GRATE	EACH	1	1	
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	7	7	
60266600	VALVE BOXES TO BE ADJUSTED	EACH	3	3	
67100100	MOBILIZATION	L SUM	1	1	
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	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	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	9,298	9,298	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	3,100	3,100	
t	78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	666	666
t	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	4,674	4,674

* SEE SPECIAL PROVISIONS
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 02 OF 03 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	04
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	TRAINEES
					75% FEDERAL 25% LOCAL 0005	75% FEDERAL 25% LOCAL 0042
t	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4,068	4,068	
t	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	31	31	
t	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	520	520	
t	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	666	666	
t	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	4,674	4,674	
t	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	4,068	4,068	
t	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	31	31	
t	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	520	520	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	110	110	
t	* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1	
t	* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1,592	1,592	
	* X0327611	REMOVE AND REINSTALL BRICK PAVER	SQ FT	130	130	
	* X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	70	70	
	* X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1,052	1,052	
	* X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	1	1	
t	* X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	110	110	

* SEE SPECIAL PROVISIONS
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 03 OF 03 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	05
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES

t	*	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	ROADWAY	TRAINEES
						75% FEDERAL 25% LOCAL 0005	75% FEDERAL 25% LOCAL 0042
	*	X8140115	HANDHOLE TO BE ADJUSTED	EACH	2	2	
	*	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	155	155	
	*	Z0076600	TRAINEES	HOUR	500		500
	*	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500

* SEE SPECIAL PROVISIONS
t INDICATES SPECIALTY ITEM

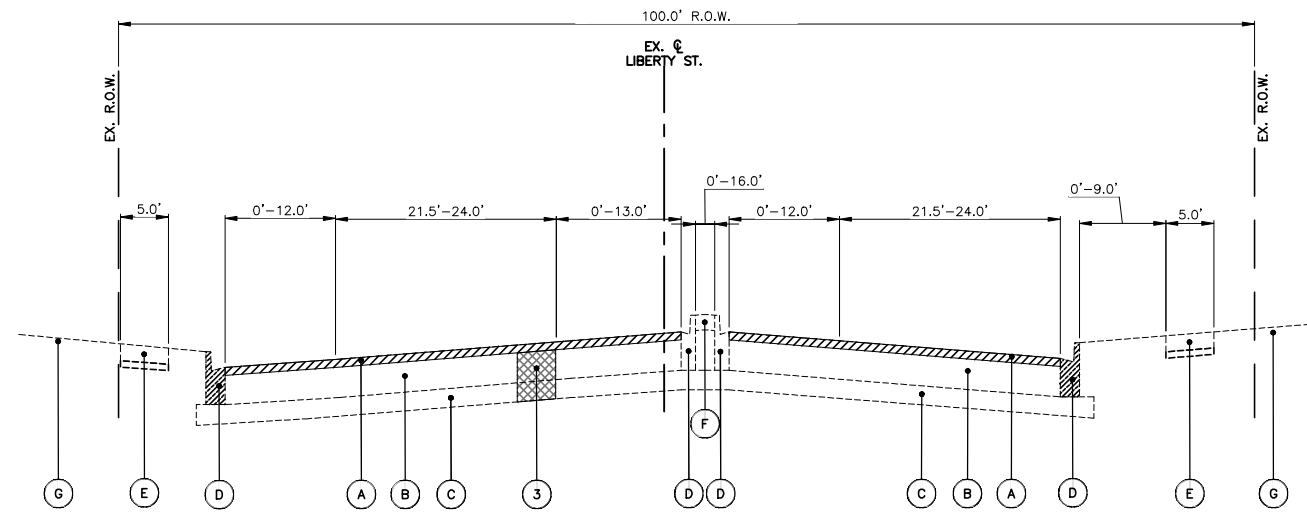
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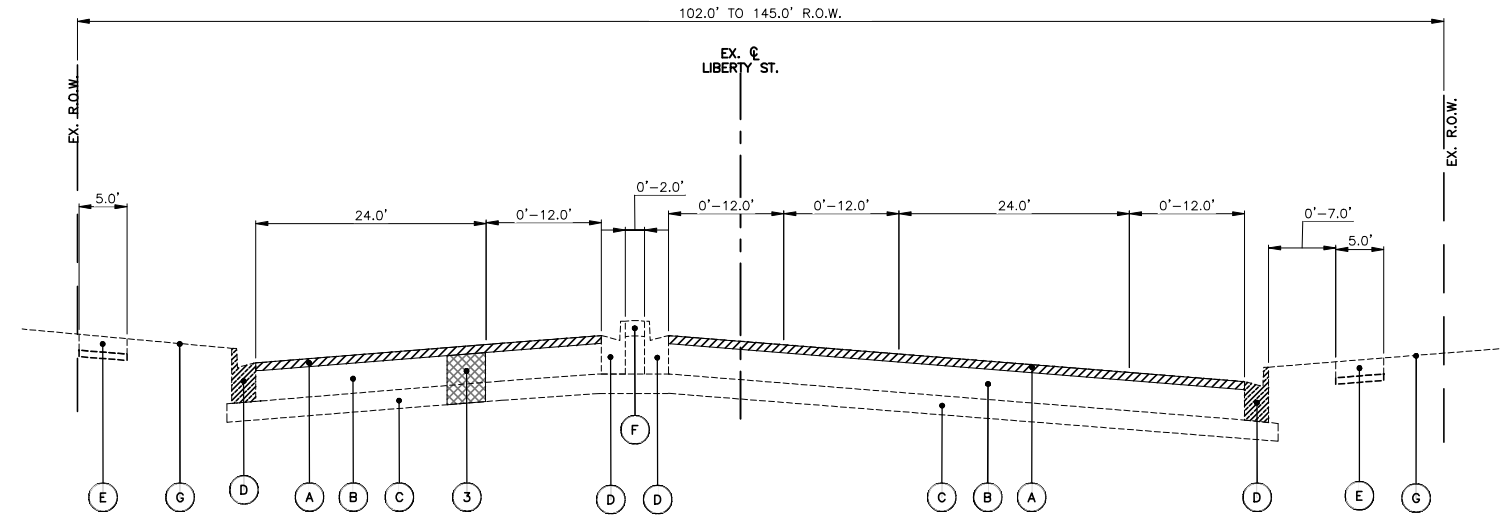
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SCALE: N.T.S.	SHEET NO. 01 OF 01 SHEETS	STA. _____	TO STA. _____
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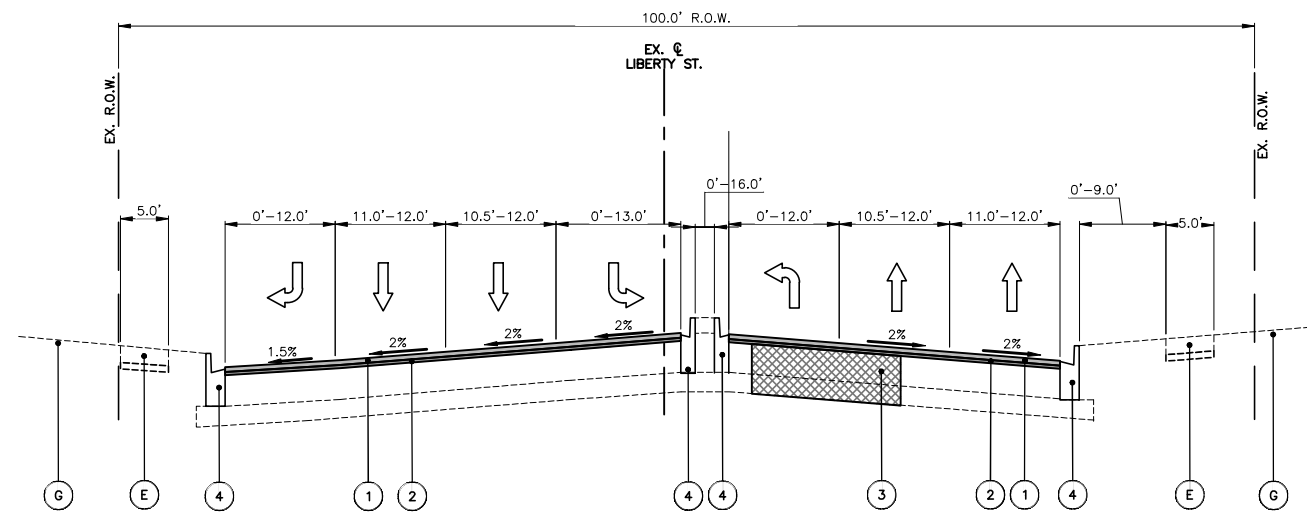
FAU. RT.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	06
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				



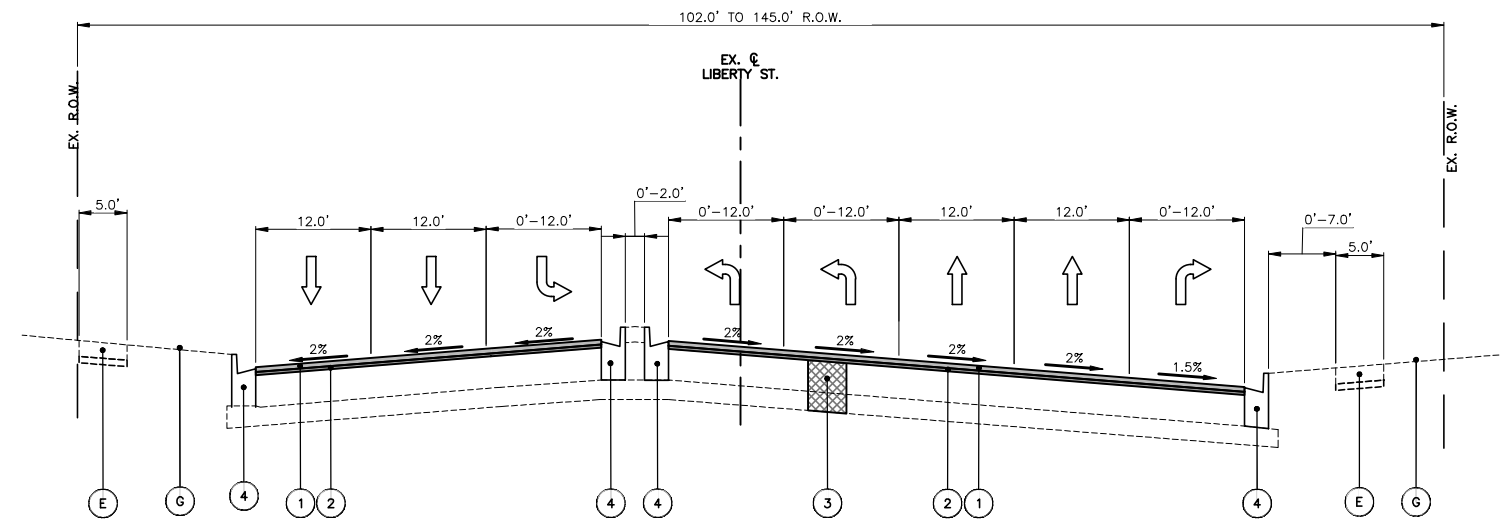
EXISTING TYPICAL SECTION - LIBERTY ST.
STA: 102+00.00 - STA: 137+87.50



EXISTING TYPICAL SECTION - LIBERTY ST.
STA: 137+87.50 - STA: 142+40.5



PROPOSED TYPICAL SECTION - LIBERTY ST.
STA: 102+00.00 - STA: 137+87.50



PROPOSED TYPICAL SECTION - LIBERTY ST.
STA: 137+87.50 - STA: 142+40.5

EXISTING LEGEND

- A HOT-MIX ASPHALT SURFACE REMOVAL 3"
- B HOT-MIX ASPHALT PAVEMENT
- C AGGREGATE SUBBASE
- D COMBINATION CURB AND GUTTER REMOVAL, VARIES FROM TYPE B-6.12 TO B-6.18
- E PORTLAND CEMENT CONCRETE SIDEWALK
- F LANDSCAPED OR PCC MEDIAN
- G EXISTING GROUND

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS ⊙ NDES	QMP
PAVEMENT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"	4% ⊙ 70 GYR.	LR1030-2
RESURFACING	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"	3.5% ⊙ 50 GYR.	LR1030-2
CLASS D PATCHES	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70, 8"	4% ⊙ 70 GYR.	LR1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA) PER LR1030-2			

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN

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 MATERIALS SPECIFICATIONS. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE P HMA BC IL-4.75 N50."

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
- 2 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"
- 3 CLASS D PATCHES W/SUBBASE GRANULAR MATERIAL, TYPE B, 8" (SPOT LOCATIONS AS DIRECTED BY ENGINEER)
- 4 COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.18 (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

NOTE:
• THE PATCHING QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.

• NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE EXISTING R.O.W.

COMPANY NAME: MLEWIS
 PROJECT CONTACT: MLEWIS
 DATE PLOTTED: 10/24/2022 10:13 AM
 FILE NAME: 211322-Typ-Sec
 PLOT SCALE: N.T.S.
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb

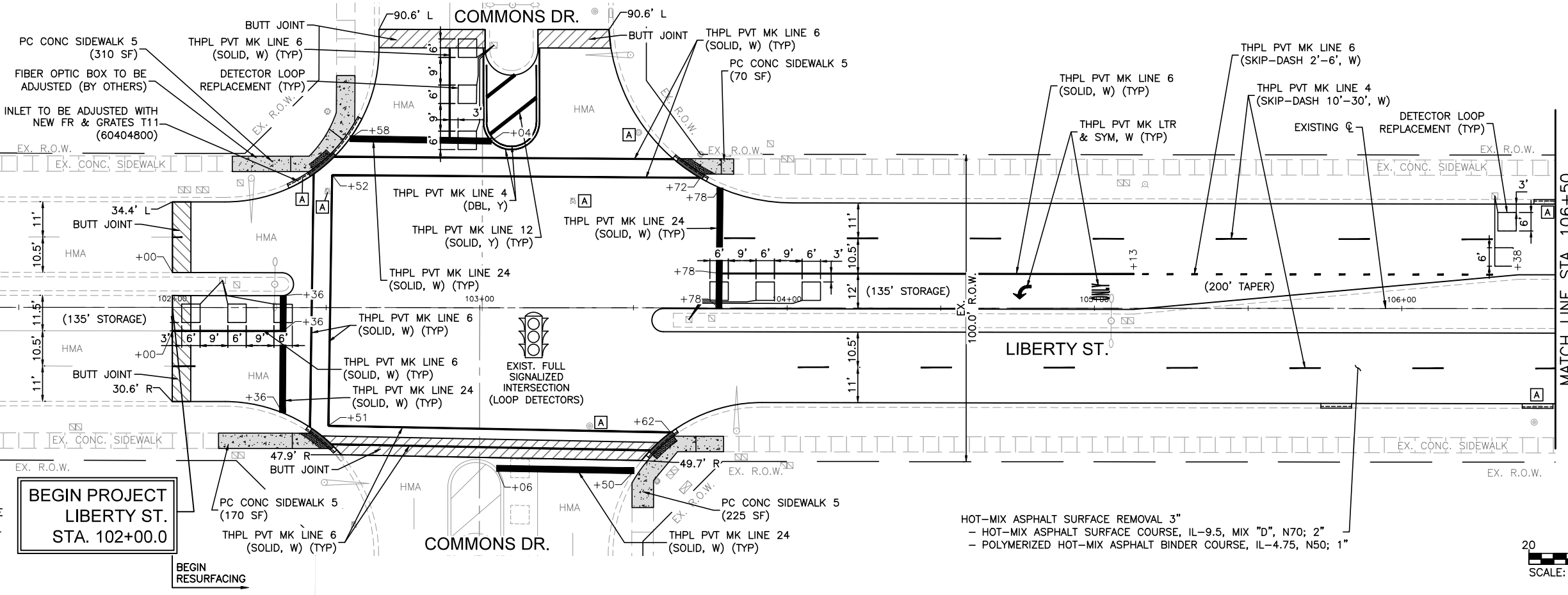
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PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	07
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				



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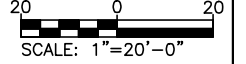
- EX. CONCRETE SIDEWALK
- CURB RAMP REMOVAL AND REPLACEMENT
- ADA DETECTABLE WARNINGS
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- DEPRESSED CURB

NOTE:
ANY SOILS GENERATED FROM CURB AND SIDEWALK REPAIRS SHALL REMAIN ON SITE IN THE RIGHT-OF-WAY. ANY SUCH SOIL SHALL BE PLACED IN THE LANDSCAPED MEDIAN AS DIRECTED BY THE ENGINEER AND RESTORED. IF MEDIAN LANDSCAPED BOULDERS ARE DISTURBED BY CURB REPAIRS, THEY SHALL BE RESET AT NO ADDITIONAL COST TO THE DEPARTMENT.

BEGIN PROJECT LIBERTY ST. STA. 102+00.0

BEGIN RESURFACING

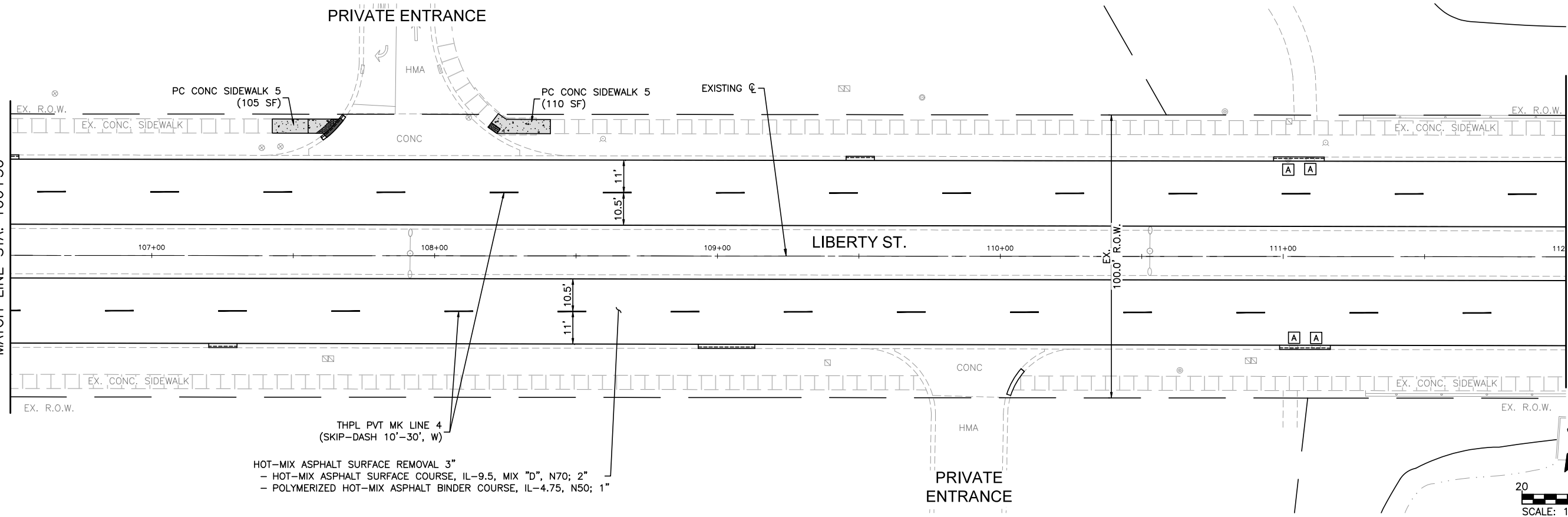
HOT-MIX ASPHALT SURFACE REMOVAL 3"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"



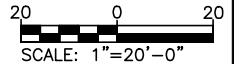
MATCH LINE STA. 106+50
SEE LOWER LEFT CORNER



SEE UPPER RIGHT CORNER
MATCH LINE STA. 106+50



HOT-MIX ASPHALT SURFACE REMOVAL 3"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"



MATCH LINE STA. 112+00
SEE SHEET NO. 09



COMPANY NAME:
 PROJECT CONTACT:
 CLIENT:
 10/24/2022 10:13 AM
 DATE PLOTTED:
 FILE NAME:
 211322-Resurf-Plan
 DATE:
 10/24/2022
 PLOT DRIVER:
 DWG To PDF.pc3
 PEN TABLE:
 ILDOT-Standard.ctb

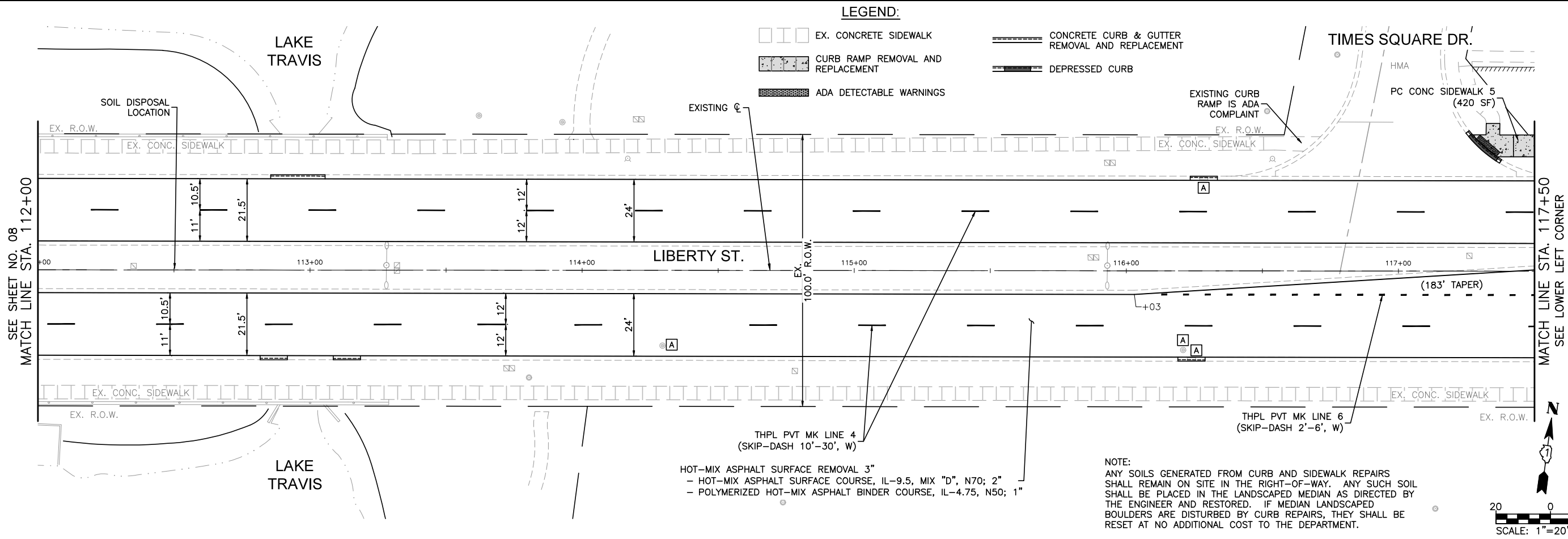
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PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RESURFACING PLAN

SCALE: 1"=20' SHEET NO. 01 OF 04 SHEETS STA. 101+50 TO STA. 112+00

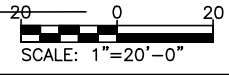
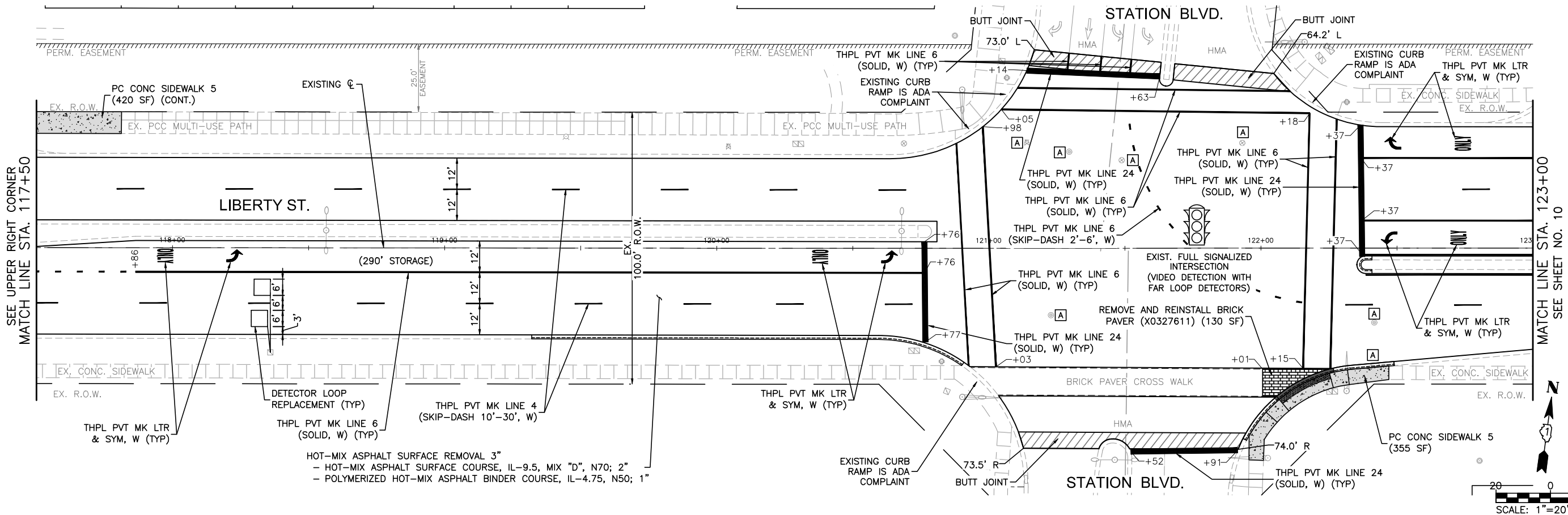
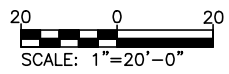
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	08
CONTRACT NO. 61J13				
ILLINOIS		FED. AID PROJECT		



LEGEND:

[Symbol]	EX. CONCRETE SIDEWALK	[Symbol]	CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
[Symbol]	CURB RAMP REMOVAL AND REPLACEMENT	[Symbol]	DEPRESSED CURB
[Symbol]	ADA DETECTABLE WARNINGS		

NOTE:
 ANY SOILS GENERATED FROM CURB AND SIDEWALK REPAIRS SHALL REMAIN ON SITE IN THE RIGHT-OF-WAY. ANY SUCH SOIL SHALL BE PLACED IN THE LANDSCAPED MEDIAN AS DIRECTED BY THE ENGINEER AND RESTORED. IF MEDIAN LANDSCAPED BOULDERS ARE DISTURBED BY CURB REPAIRS, THEY SHALL BE RESET AT NO ADDITIONAL COST TO THE DEPARTMENT.



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 PROJECT CONTACT: [Blank]
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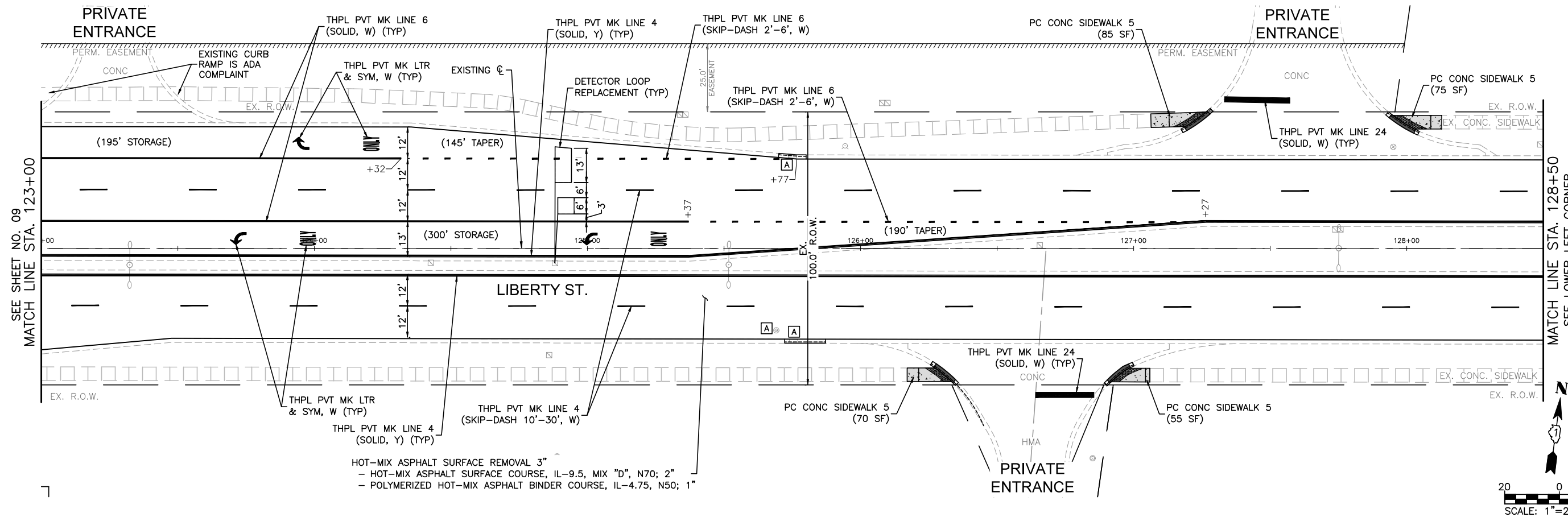
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PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RESURFACING PLAN

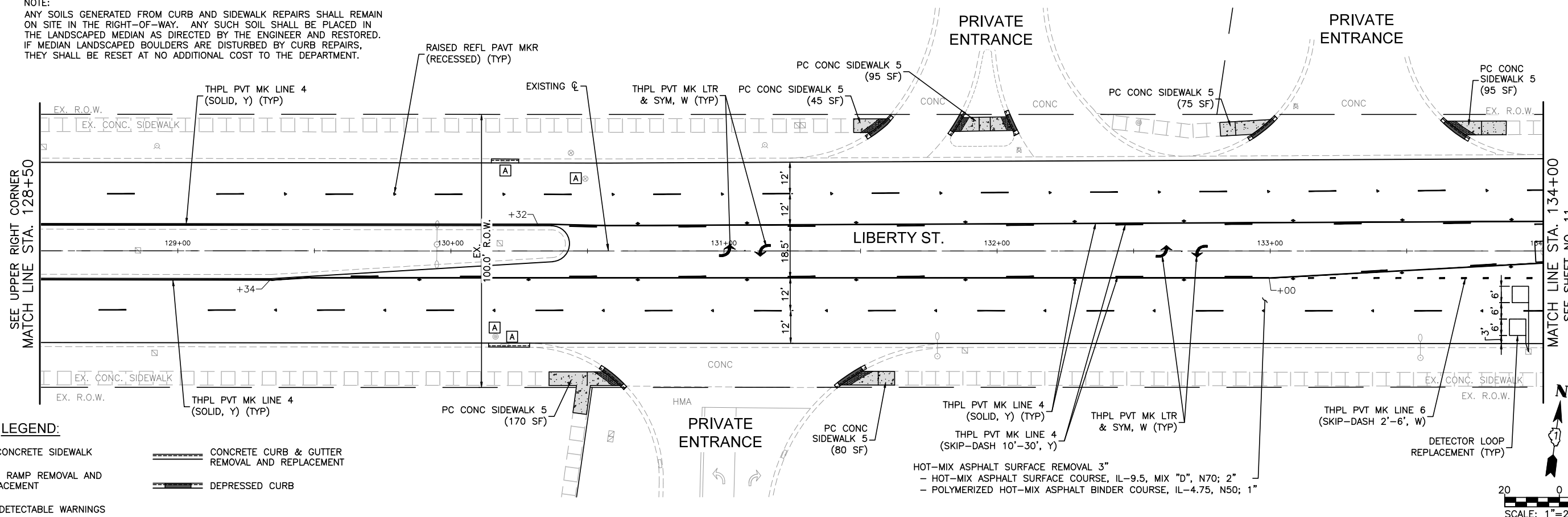
SCALE: 1"=20' SHEET NO. 02 OF 04 SHEETS STA. 112+00 TO STA. 123+00

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	09
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				



HOT-MIX ASPHALT SURFACE REMOVAL 3"
 - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
 - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"

NOTE:
 ANY SOILS GENERATED FROM CURB AND SIDEWALK REPAIRS SHALL REMAIN ON SITE IN THE RIGHT-OF-WAY. ANY SUCH SOIL SHALL BE PLACED IN THE LANDSCAPED MEDIAN AS DIRECTED BY THE ENGINEER AND RESTORED. IF MEDIAN LANDSCAPED BOULDERS ARE DISTURBED BY CURB REPAIRS, THEY SHALL BE RESET AT NO ADDITIONAL COST TO THE DEPARTMENT.



HOT-MIX ASPHALT SURFACE REMOVAL 3"
 - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
 - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"

LEGEND:

- EX. CONCRETE SIDEWALK
- CURB RAMP REMOVAL AND REPLACEMENT
- ADA DETECTABLE WARNINGS
- CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
- DEPRESSED CURB

USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
FILE NAME = 211322-Resurf-Plan	DRAWN - MPL	REVISED -
PLOT SCALE = 1"=20'	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION







RESURFACING PLAN

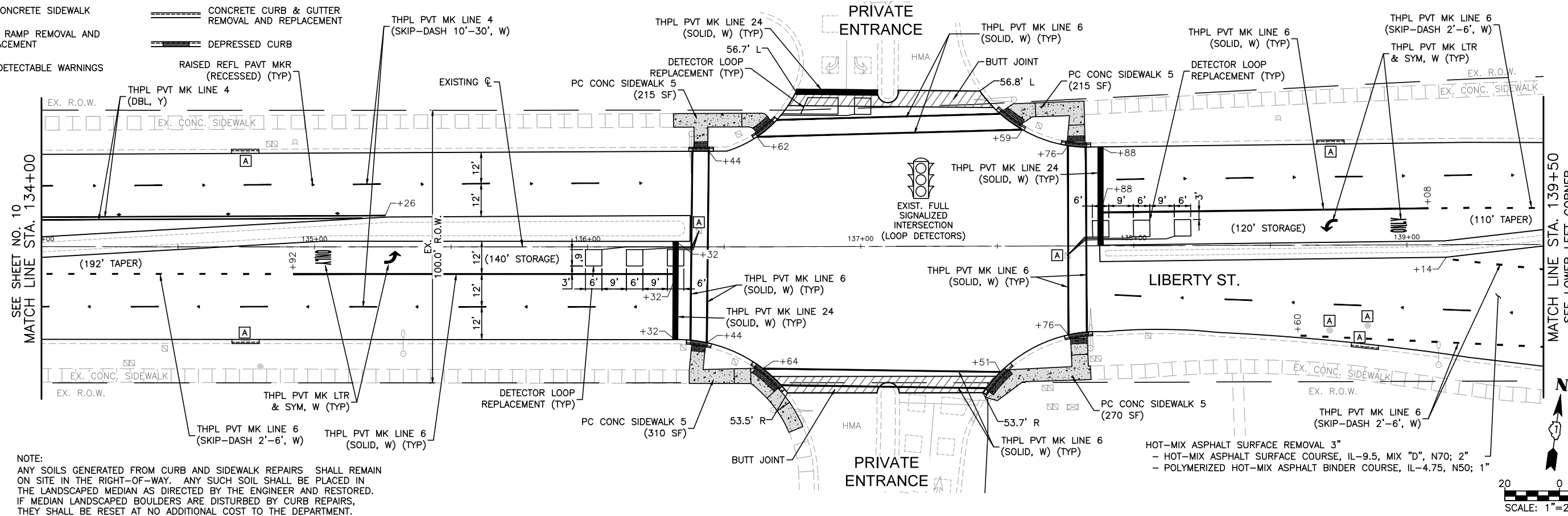
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FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	10
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: [REDACTED]
 PROJECT CONTACT: [REDACTED]
 DATE PLOTTED: 10/24/2022 10:14 AM
 FILE NAME: 211322-Resurf-Plan
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 PEN TABLE: ILDOT-Standard.ctb

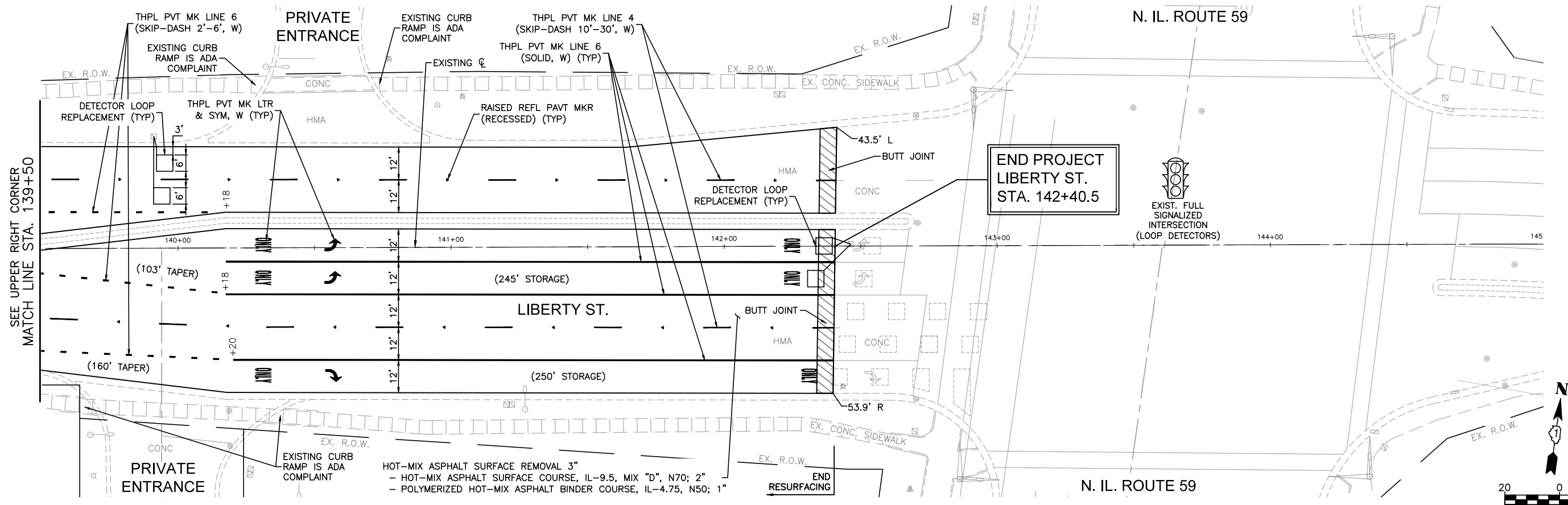
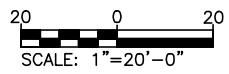
LEGEND:

-  EX. CONCRETE SIDEWALK
-  CURB RAMP REMOVAL AND REPLACEMENT
-  ADA DETECTABLE WARNINGS
-  CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
-  DEPRESSED CURB
-  RAISED REFL PAVT MKR (RECESSED) (TYP)

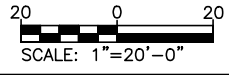


NOTE:
 ANY SOILS GENERATED FROM CURB AND SIDEWALK REPAIRS SHALL REMAIN ON SITE IN THE RIGHT-OF-WAY. ANY SUCH SOIL SHALL BE PLACED IN THE LANDSCAPED MEDIAN AS DIRECTED BY THE ENGINEER AND RESTORED. IF MEDIAN LANDSCAPED BOULDERS ARE DISTURBED BY CURB REPAIRS, THEY SHALL BE RESET AT NO ADDITIONAL COST TO THE DEPARTMENT.

HOT-MIX ASPHALT SURFACE REMOVAL 3"
 - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
 - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"



HOT-MIX ASPHALT SURFACE REMOVAL 3"
 - HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70; 2"
 - POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; 1"



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 PROJECT CONTACT: [blank]
 CLIENT: [blank]
 DATE PLOTTED: 10/24/2022 10:14 AM
 FILE NAME: 211322-Resurf-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb

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FILE NAME = 211322-Resurf-Plan	DRAWN - MPL	REVISED -
PLOT SCALE = 1"=20'	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

RESURFACING PLAN

SCALE: 1"=20' SHEET NO. 04 OF 04 SHEETS STA. 134+00 TO STA. 145+00

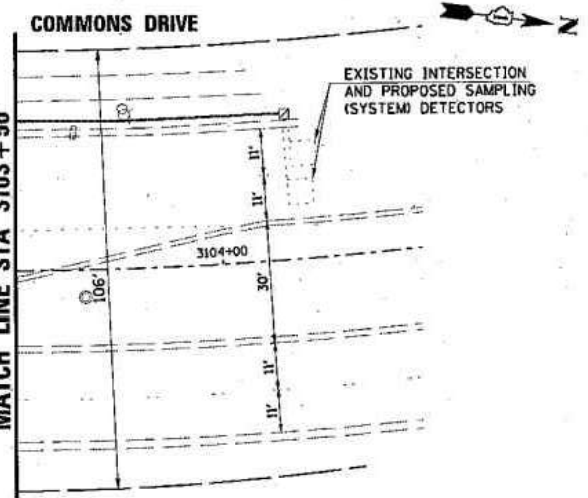
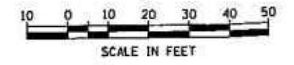
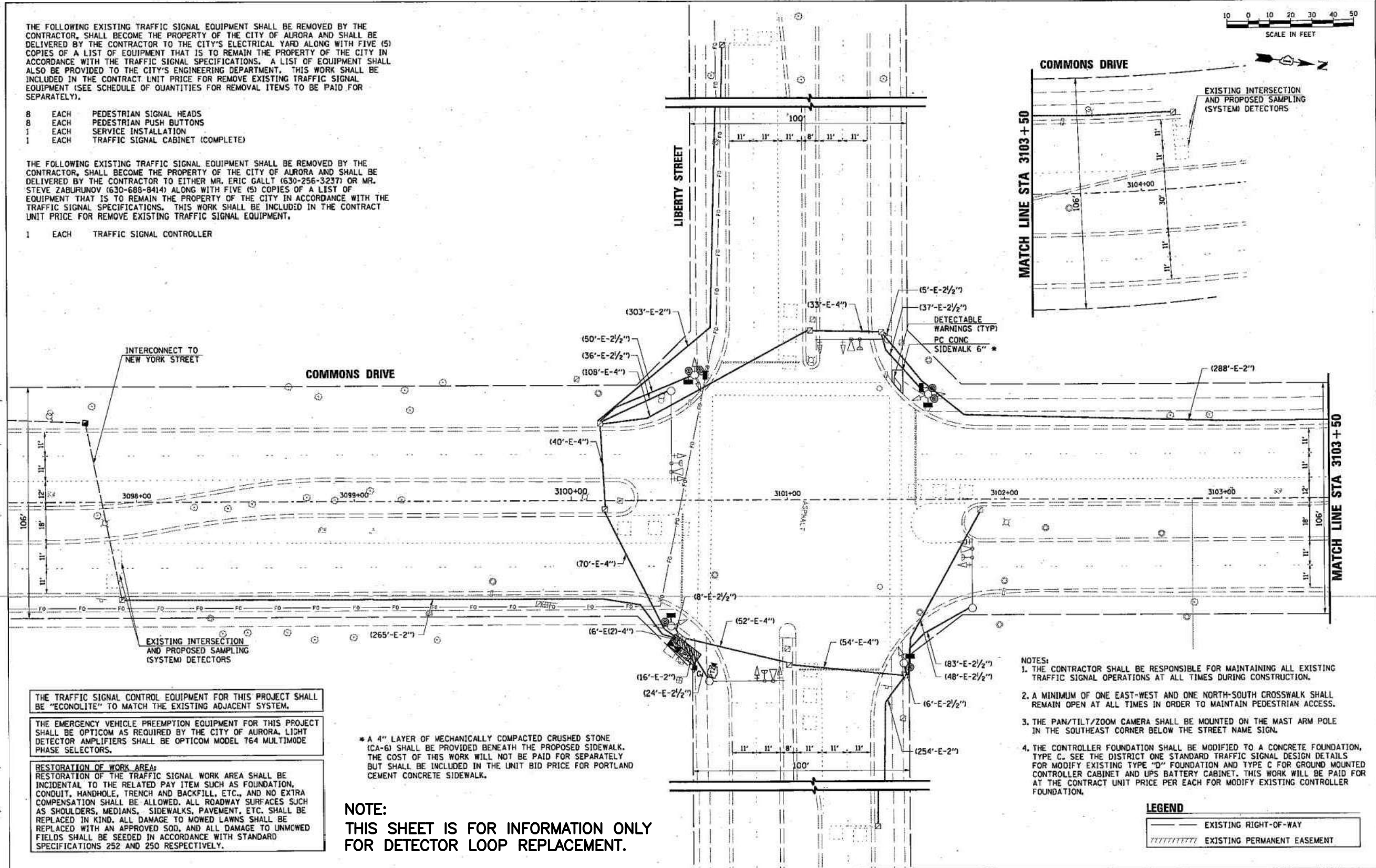
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3570	22-00347-00-RS	DUPAGE	33	11
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL BECOME THE PROPERTY OF THE CITY OF ALRORA AND SHALL BE DELIVERED BY THE CONTRACTOR TO THE CITY'S ELECTRICAL YARD ALONG WITH FIVE (5) COPIES OF A LIST OF EQUIPMENT THAT IS TO REMAIN THE PROPERTY OF THE CITY IN ACCORDANCE WITH THE TRAFFIC SIGNAL SPECIFICATIONS. A LIST OF EQUIPMENT SHALL ALSO BE PROVIDED TO THE CITY'S ENGINEERING DEPARTMENT. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (SEE SCHEDULE OF QUANTITIES FOR REMOVE ITEMS TO BE PAID FOR SEPARATELY).

- 8 EACH PEDESTRIAN SIGNAL HEADS
- 8 EACH PEDESTRIAN PUSH BUTTONS
- 1 EACH SERVICE INSTALLATION
- 1 EACH TRAFFIC SIGNAL CABINET (COMPLETE)

THE FOLLOWING EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE REMOVED BY THE CONTRACTOR, SHALL BECOME THE PROPERTY OF THE CITY OF ALRORA AND SHALL BE DELIVERED BY THE CONTRACTOR TO EITHER MR. ERIC GALLT (630-256-3237) OR MR. STEVE ZABURUNOV (630-688-8414) ALONG WITH FIVE (5) COPIES OF A LIST OF EQUIPMENT THAT IS TO REMAIN THE PROPERTY OF THE CITY IN ACCORDANCE WITH THE TRAFFIC SIGNAL SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT.

- 1 EACH TRAFFIC SIGNAL CONTROLLER



INTERCONNECT TO NEW YORK STREET

COMMONS DRIVE

LIBERTY STREET

MATCH LINE STA 3103+50

MATCH LINE STA 3103+50

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL T64 MULTIMODE PHASE SELECTORS.

RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCIDENTAL TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOO, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

*A 4" LAYER OF MECHANICALLY COMPACTED CRUSHED STONE (CA-6) SHALL BE PROVIDED BENEATH THE PROPOSED SIDEWALK. THE COST OF THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT BID PRICE FOR PORTLAND CEMENT CONCRETE SIDEWALK.

NOTE:
THIS SHEET IS FOR INFORMATION ONLY FOR DETECTOR LOOP REPLACEMENT.

- NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ALL EXISTING TRAFFIC SIGNAL OPERATIONS AT ALL TIMES DURING CONSTRUCTION.
 2. A MINIMUM OF ONE EAST-WEST AND ONE NORTH-SOUTH CROSSWALK SHALL REMAIN OPEN AT ALL TIMES IN ORDER TO MAINTAIN PEDESTRIAN ACCESS.
 3. THE PAN/TILT/ZOOM CAMERA SHALL BE MOUNTED ON THE MAST ARM POLE IN THE SOUTHEAST CORNER BELOW THE STREET NAME SIGN.
 4. THE CONTROLLER FOUNDATION SHALL BE MODIFIED TO A CONCRETE FOUNDATION, TYPE C. SEE THE DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS FOR MODIFY EXISTING TYPE "D" FOUNDATION AND TYPE C FOR GROUND MOUNTED CONTROLLER CABINET AND UPS BATTERY CABINET. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR MODIFY EXISTING CONTROLLER FOUNDATION.

LEGEND

	EXISTING RIGHT-OF-WAY
	EXISTING PERMANENT EASEMENT



USER NAME = MFallier	DESIGNED = MJF	REVISED =
PLOT SCALE =	CHECKED = APS	REVISED =
PLOT DATE = 2/1/2013	DATE = 02/01/2013	REVISED =
FILE NAME = S:\0_10_wig@5eb_11ber.txd		REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL MODIFICATION PLAN
COMMONS DRIVE AT LIBERTY STREET

FAU. RTE. 1532	SECTION 11-00297-00-TL	COUNTY DUPAGE	TOTAL SHEETS 38	SHEET NO. 18
CONTRACT NO. 63816			ILLINOIS FED. AID PROJECT	

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen
 DATE PLOTTED: 10/24/2022 10:14 AM
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 PEN TABLE: SEC-Standard.ctb

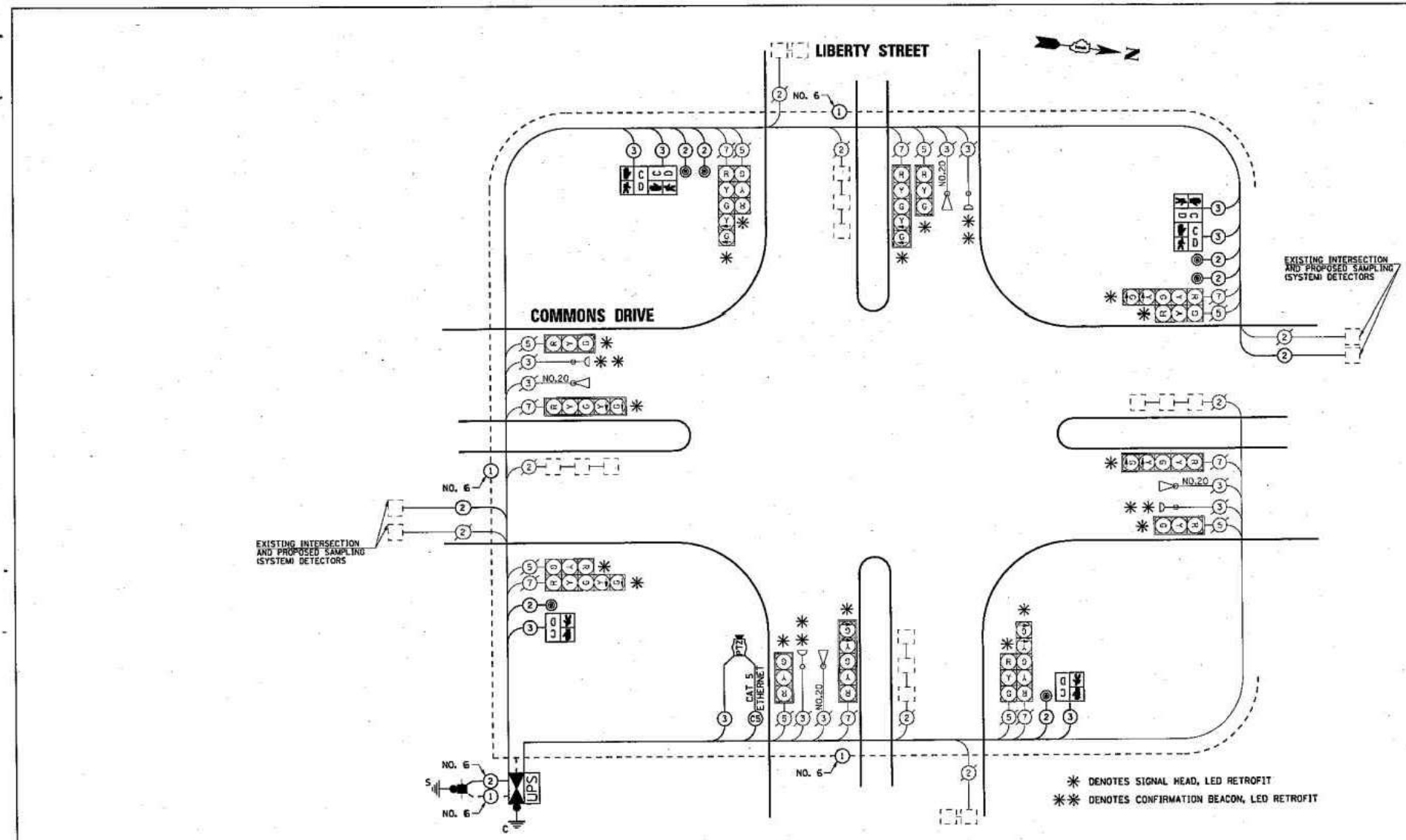
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PLOT DATE = 10/24/2022	DATE = 10/24/2022	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

COMMONS DR. AND LIBERTY ST. TRAFFIC SIGNAL PLAN
FOR INFORMATION ONLY

FAU. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 12
CONTRACT NO. 61J13			ILLINOIS FED. AID PROJECT	

SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.



SCHEDULE OF QUANTITIES

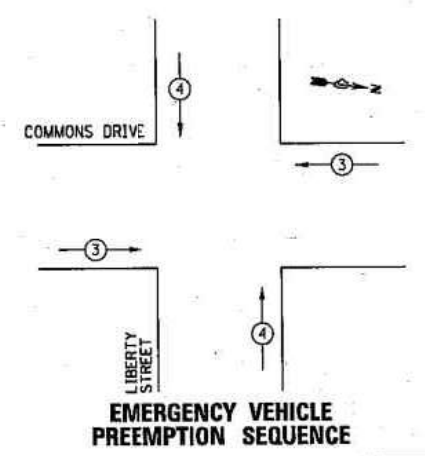
PAY ITEM DESCRIPTION	UNIT	LIBERTY STREET
PORTLAND CEMENT CONCRETE SIDEWALK 6 INCH	SQ YD	5
DETECTABLE WARNINGS	SQ FT	10
SIDEWALK REMOVAL	SQ FT	45
SERVICE INSTALLATION - GROUND MOUNTED	EACH	1
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
GROUNDING EXISTING HANDICAP FRAME AND COVER	EACH	7
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	FOOT	1914
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 20	FOOT	1434
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	890
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C	FOOT	20
ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	760
PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	2
INDUCTIVE LOOP DETECTOR	EACH	10
LIGHT DETECTOR AMPLIFIER	EACH	1
PEDESTRIAN PUSH-BUTTON	EACH	6
MODIFY EXISTING CONTROLLER FOUNDATION	EACH	1
REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	3080
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
CAT 5 ETHERNET CABLE	FOOT	78
FULL ACTUATED CONTROLLER AND TYPE IV CABINET, SPECIAL	EACH	1
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL	EACH	1
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST ARM MOUNTED, RETROFIT	EACH	4
SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED, RETROFIT	EACH	4
INTERSECTION VIDEO TRAFFIC MONITORING SYSTEM WITH PTZ CAMERA	EACH	1
EVP CONFIRMATION BEACON, LED RETROFIT	EACH	4

NOTE:
THIS SHEET IS FOR INFORMATION ONLY.

I.D.O.T TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS				
TYPE	NO. LAMPS	WATTAGE		TOTAL WATTAGE
		INCAND.	LED	
SIGNAL (RED)	16	17	0.50	136
(YELLOW)	16	25	0.25	100
(GREEN)	16	15	0.25	60
ARROW	16	12	0.10	19.2
PED. SIGNAL	6	25	1.00	150
CONTROLLER	1	100	1.00	100
TOTAL =				565.2

ENERGY COSTS TO: CITY OF AURORA
44 E. DOWNER PLACE
AURORA, ILLINOIS 60507-2067

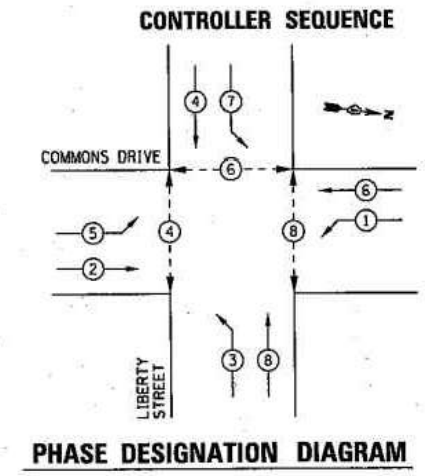
ENERGY SUPPLY CONTACT: MARK SCHERIBEL
PHONE: (630) 723-2128
COMPANY: COMMONWEALTH EDISON



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

CONTROLLER SEQUENCE LEGEND

- ⊕ → DUAL ENTRY PHASE
- ⊖ → SINGLE ENTRY PHASE
- ⊕ ⊖ → OVERLAP
- → NUMBER REFERRING TO ASSOCIATED PHASE
- ⊕ ⊖ → PEDESTRIAN PHASE



THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM.

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE CITY OF AURORA. LIGHT DETECTOR AMPLIFIERS SHALL BE OPTICOM MODEL 764 MULTIMODE PHASE SELECTORS.

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

HRGreen.com State Professional Design Firm #194-201302	USER NAME = MFuller	DESIGNED - MJF	REVISED -
	PLOT SCALE =	CHECKED - APS	REVISED -
	PLOT DATE = 2/1/2013	DATE - 02/01/2013	REVISED -
	FILE NAME = 63816.aug15c_1liberty.dgn		REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

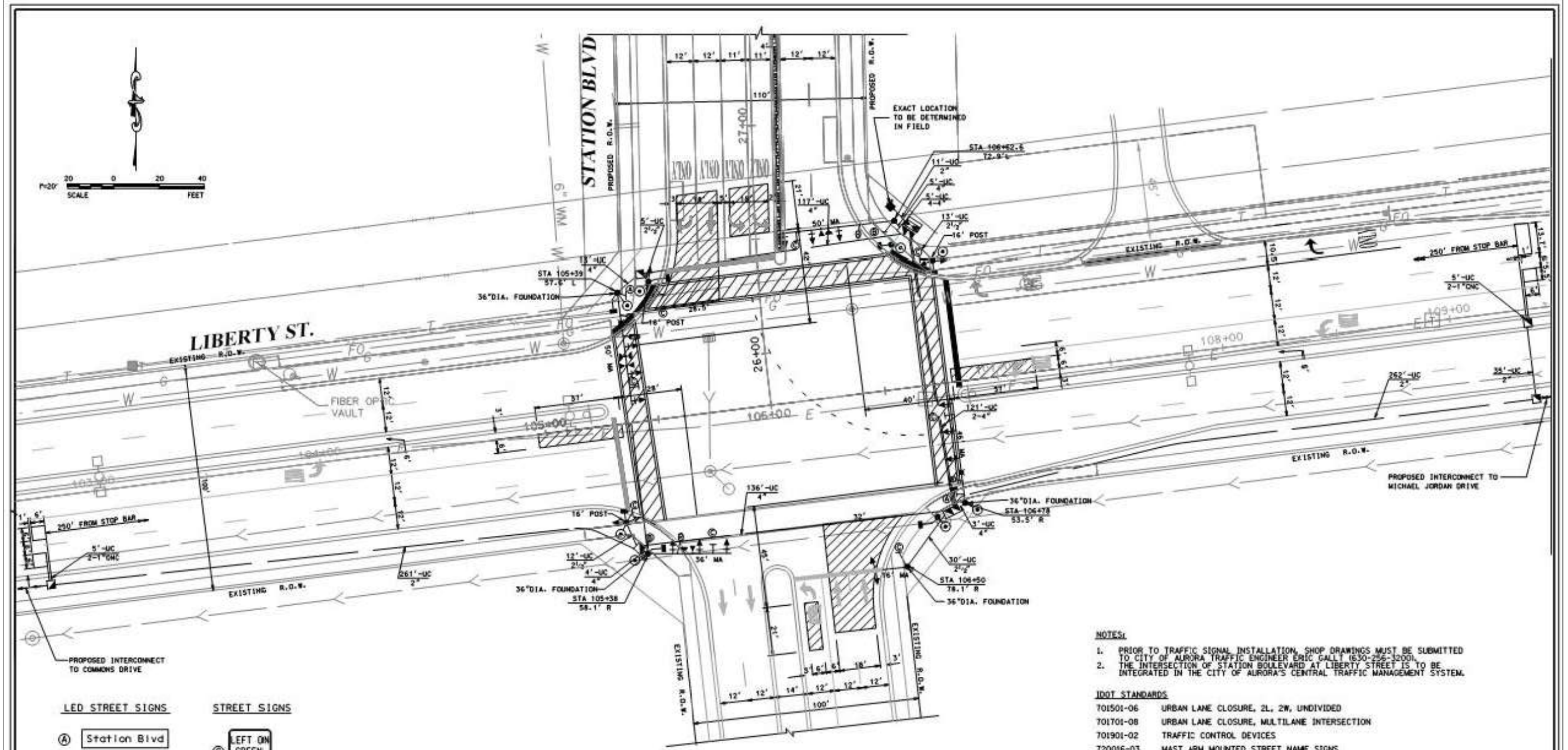
CABLE PLAN AND PHASE DESIGNATION DIAGRAM COMMONS DRIVE AT LIBERTY STREET

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-TL	DUPAGE	38	19
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 63816	

COMPANY NAME: HRGreen
 PROJECT CONTACT: HRGreen.com
 DATE PLOTTED: 10/24/2022 10:14 AM
 FILE NAME: 211322-Detals
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: SEC-Standard.ctb

USER NAME = MLEWIS	DESIGNED - MPL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	COMMONS DR. AND LIBERTY ST. CABLE PLAN FOR INFORMATION ONLY	FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FILE NAME = 211322-Detals	DRAWN - MPL	REVISED -			3570	22-00347-00-RS	DUPAGE	33	13
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -			CONTRACT NO. 61J13				
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -			ILLINOIS FED. AID PROJECT				

SCALE: N.T.S. SHEET NO. 02 OF 02 SHEETS STA. TO STA.



- LED STREET SIGNS**
- (A) Station Blvd
 - (B) Liberty St
- STREET SIGNS**
- (C) LEFT ON GREEN ARROW ONLY
R10-S
24" x 30"

RESTORATION OF WORK AREA:
RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC., SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

NOTE:
THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT IS TO BE RECONOLITE ASC3 TO MATCH EXISTING ADJACENT SYSTEM.

NOTE:
THIS SHEET IS FOR INFORMATION ONLY FOR DETECTOR LOOP REPLACEMENT.

- NOTES:**
- PRIOR TO TRAFFIC SIGNAL INSTALLATION, SHOP DRAWINGS MUST BE SUBMITTED TO CITY OF AURORA TRAFFIC ENGINEER ERIC GALLI (630-256-3200).
 - THE INTERSECTION OF STATION BOULEVARD AT LIBERTY STREET IS TO BE INTEGRATED IN THE CITY OF AURORA'S CENTRAL TRAFFIC MANAGEMENT SYSTEM.

- IDOT STANDARDS**
- 701501-06 URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
 - 701701-08 URBAN LANE CLOSURE, MULTILANE INTERSECTION
 - 701901-02 TRAFFIC CONTROL DEVICES
 - 720016-03 MAST ARM MOUNTED STREET NAME SIGNS
 - 780001-03 TYPICAL PAVEMENT MARKINGS
 - 814001-02 HANDHOLES
 - 814006-02 DOUBLE HANDHOLES
 - 857001-01 STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES
 - 862001-01 UNINTERRUPTIBLE POWER SUPPLY (UPS)
 - 873001-02 TRAFFIC SIGNAL GROUNDING AND BONDING
 - 878001-09 CONCRETE FOUNDATION DETAILS
 - 880006-1 TRAFFIC SIGNAL MOUNTING DETAILS
 - 886001-01 DETECTOR LOOP INSTALLATIONS
 - 886006-01 TYPICAL LAYOUT FOR DETECTOR LOOPS.

REVISIONS					
NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	08-25-08	ISSUED PER AURORA ENGINEERING COMMENTS	8	08-25-08	ISSUED FOR CITY REVIEW
2	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
3	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
4	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
5	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
6	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
7	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW
8	08-25-08	REVISED PER AURORA ENGINEERING COMMENTS	8	08-25-08	REVISED PER CITY REVIEW

STATION BOULEVARD

PROJECT NO. 05086
 DRAWN BY: CLS
 DATE: 7/20/08
 CHECKED BY: MJR
 DATE: 3/20/08
 PROJECT MANAGER: BCR
 CITY: AURORA
 STATE: ILLINOIS

**TRAFFIC SIGNAL INSTALLATION PLAN
STATION BLVD/LIBERTY ST**

7.2

COMPANY NAME: V3 COMPANIES
 PROJECT CONTACT: V3 COMPANIES
 CLIENT: V3 COMPANIES
 DATE PLOTTED: 10/24/2022 10:14 AM
 FILE NAME: 211322-Details
 PLOT SCALE: N.T.S.
 PLOT DRIVER: DWG TO PDF.PC3
 PEN TABLE: SEC-Standard.ctb

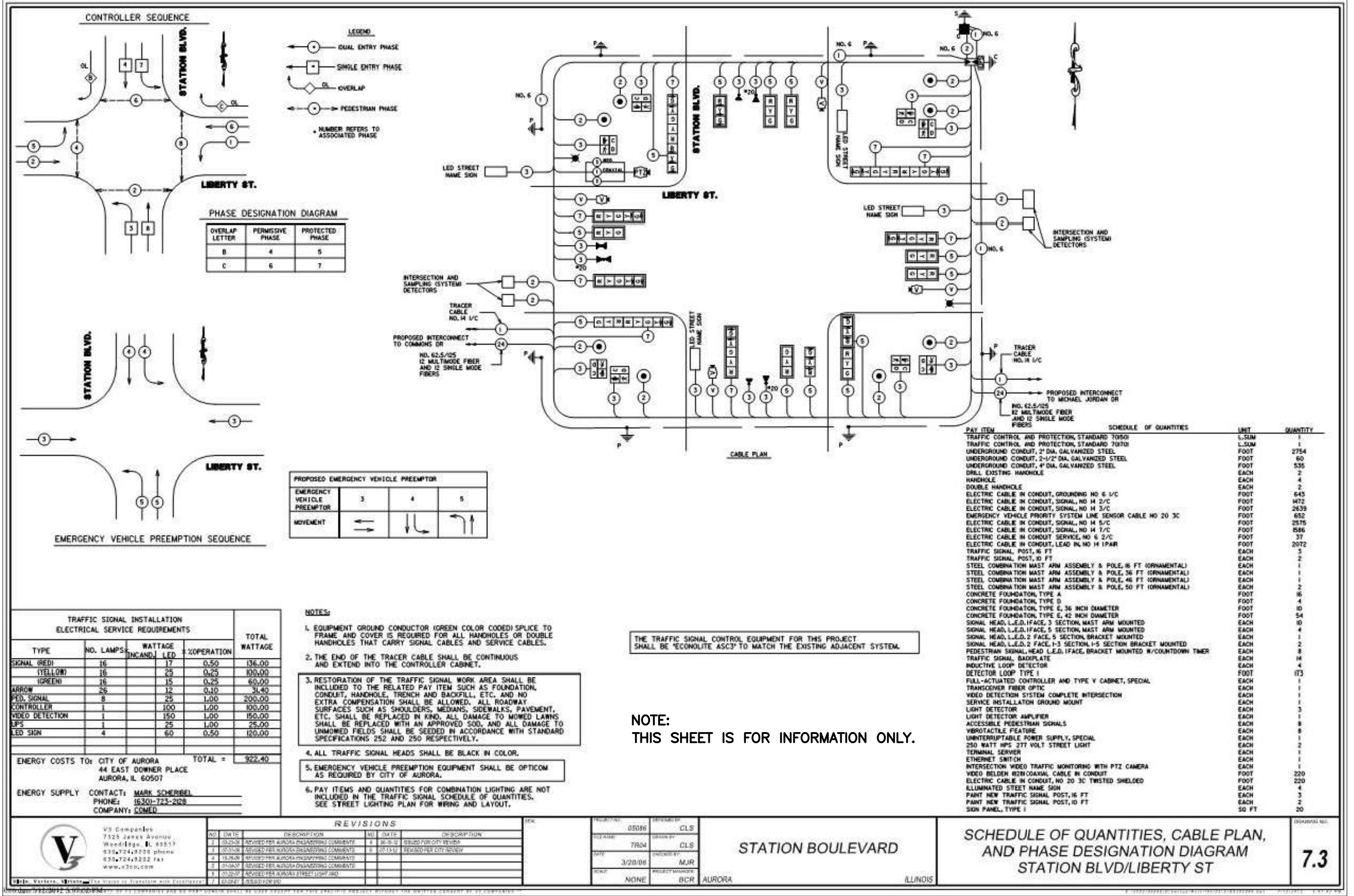
USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
FILE NAME = 211322-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIBERTY ST. AND STATION BLVD. TRAFFIC SIGNAL PLAN
FOR INFORMATION ONLY

SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	14
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

TYPE	NO. LAMPS	WATTAGE (INCAND.)	LED	%OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	17		0.50	136.00
(YELLOW)	16	25		0.25	100.00
(GREEN)	16	15		0.25	60.00
ARROW	26	12		0.10	31.40
PED. SIGNAL	8	25		1.00	200.00
CONTROLLER	1	100		1.00	100.00
VIDEO DETECTION	1	150		1.00	150.00
LPS	1	25		1.00	25.00
LED SIGN	4	60		0.50	120.00
ENERGY COSTS TO: CITY OF AURORA 44 EAST DOWNER PLACE AURORA, IL 60507				TOTAL =	922.40
ENERGY SUPPLY CONTACT: MARK SCHERBEL PHONE: 630-724-2128 COMPANY: COMED					

- NOTES:**
- EQUIPMENT GROUND CONDUCTOR (GREEN COLOR CODED) SPLICE TO FRAME AND COVER IS REQUIRED FOR ALL HANDHOLES OR DOUBLE HANDHOLES THAT CARRY SIGNAL CABLES AND SERVICE CABLES.
 - THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.
 - RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED TO THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC. AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENT, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOO, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
 - ALL TRAFFIC SIGNAL HEADS SHALL BE BLACK IN COLOR.
 - EMERGENCY VEHICLE PREEMPTION EQUIPMENT SHALL BE OPTICOM AS REQUIRED BY CITY OF AURORA.
 - PAY ITEMS AND QUANTITIES FOR COMBINATION LIGHTING ARE NOT INCLUDED IN THE TRAFFIC SIGNAL SCHEDULE OF QUANTITIES. SEE STREET LIGHTING PLAN FOR WIRING AND LAYOUT.

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE 'ECONOLITE ASC3' TO MATCH THE EXISTING ADJACENT SYSTEM.

NOTE:
THIS SHEET IS FOR INFORMATION ONLY.

PAY ITEM	SCHEDULE OF QUANTITIES	UNIT	QUANTITY
TRAFFIC CONTROL AND PROTECTION, STANDARD 70/50		L-SUM	1
TRAFFIC CONTROL AND PROTECTION, STANDARD 70/10		L-SUM	1
UNDERGROUND CONDUIT, 2" DIA, GALVANIZED STEEL		FOOT	2754
UNDERGROUND CONDUIT, 2-1/2" DIA, GALVANIZED STEEL		FOOT	60
UNDERGROUND CONDUIT, 4" DIA, GALVANIZED STEEL		FOOT	535
DRILL EXISTING HANDHOLE		EACH	2
HANDHOLE		EACH	2
DOUBLE HANDHOLE		EACH	2
ELECTRIC CABLE IN CONDUIT, GROUNDING NO 6 1/2		FOOT	645
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 2/2		FOOT	472
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 3/2		FOOT	2639
EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE NO 20 3C		FOOT	652
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 5/2		FOOT	2575
ELECTRIC CABLE IN CONDUIT, SIGNAL, NO 14 7/2		FOOT	586
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO 6 2/2		FOOT	37
ELECTRIC CABLE IN CONDUIT, LEAD IN, NO 14 1PAIR		FOOT	2072
TRAFFIC SIGNAL, POST, 16 FT		EACH	3
TRAFFIC SIGNAL, POST, 10 FT		EACH	2
STEEL COMBINATION MAST ARM ASSEMBLY & POLE, 16 FT (ORNAMENTAL)		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY & POLE, 36 FT (ORNAMENTAL)		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY & POLE, 46 FT (ORNAMENTAL)		EACH	1
STEEL COMBINATION MAST ARM ASSEMBLY & POLE, 50 FT (ORNAMENTAL)		EACH	2
CONCRETE FOUNDATION, TYPE A		FOOT	16
CONCRETE FOUNDATION, TYPE D		FOOT	4
CONCRETE FOUNDATION, TYPE E, 36 INCH DIAMETER		FOOT	10
CONCRETE FOUNDATION, TYPE E, 42 INCH DIAMETER		FOOT	54
SIGNAL HEAD, L.E.D. 1FACE, 3 SECTION, MAST ARM MOUNTED		EACH	10
SIGNAL HEAD, L.E.D. 1FACE, 5 SECTION, MAST ARM MOUNTED		EACH	4
SIGNAL HEAD, L.E.D. 2 FACE, 5 SECTION, BRACKET MOUNTED		EACH	1
SIGNAL HEAD, L.E.D. 2 FACE, 1-3 SECTION, 1-5 SECTION BRACKET MOUNTED		EACH	2
PEDESTRIAN SIGNAL, HEAD L.E.D. 1FACE, BRACKET MOUNTED W/COUNTDOWN TIMER		EACH	8
TRAFFIC SIGNAL, BACKPLATE		EACH	14
INDUCTIVE LOOP DETECTOR		EACH	4
DETECTOR LOOP TYPE I		FOOT	173
FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL		EACH	1
TRANSCEIVER FIBER OPTIC		EACH	1
VIDEO DETECTION SYSTEM COMPLETE INTERSECTION		EACH	1
SERVICE INSTALLATION GROUND MOUNT		EACH	1
LIGHT DETECTOR		EACH	3
LIGHT DETECTOR AMPLIFIER		EACH	1
ACCESSIBLE PEDESTRIAN SIGNALS		EACH	8
VIBROTACTILE FEATURE		EACH	8
UNINTERRUPTIBLE POWER SUPPLY, SPECIAL		EACH	1
250 WATT HPS 277 VOLT STREET LIGHT		EACH	2
TERMINAL SERVER		EACH	1
ETHERNET SWITCH		EACH	1
INTERSECTION WIDED TRAFFIC MONITORING WITH PTZ CAMERA		EACH	1
VIDEO Belden #214 COAXIAL CABLE IN CONDUIT		FOOT	220
ELECTRIC CABLE IN CONDUIT, NO 20 3C TWISTED SHIELDED		FOOT	220
ILLUMINATED STREET NAME SIGN		EACH	4
PAINT NEW TRAFFIC SIGNAL POST, 16 FT		EACH	3
PAINT NEW TRAFFIC SIGNAL POST, 10 FT		EACH	2
SIGN PANEL, TYPE I		30 FT	20

V3
V3 Companies
7325 Janes Avenue
Woodridge, IL 60513
630.724.8200 phone
630.724.8202 fax
www.v3co.com

REVISIONS

NO.	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
1	03/23/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/23/08	ISSUED FOR CITY REVIEW
2	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW
3	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW
4	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW
5	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW
6	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW
7	03/24/08	REVISED PER AURORA ENGINEERING COMMENTS	BCR	03/24/08	ISSUED FOR CITY REVIEW

PROJECT NO: 05086	DESIGNED BY: CLS
DATE: 7/8/04	DRAWN BY: CLS
DATE: 3/20/08	CHECKED BY: MJR
SCALE: NONE	PROJECT MANAGER: BCR
	CITY: AURORA
	STATE: ILLINOIS

STATION BOULEVARD

SCHEDULE OF QUANTITIES, CABLE PLAN, AND PHASE DESIGNATION DIAGRAM

STATION BLVD/LIBERTY ST

7.3

COMPANY NAME: V3
PROJECT CONTACT: V3
DATE PLOTTED: 10/24/2022 10:14 AM
FILE NAME: 211322-Details
PLOT DRIVER: DWG TO PDF.pc3
PEN TABLE: SEC-Standard.ctb

USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
FILE NAME = 211322-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

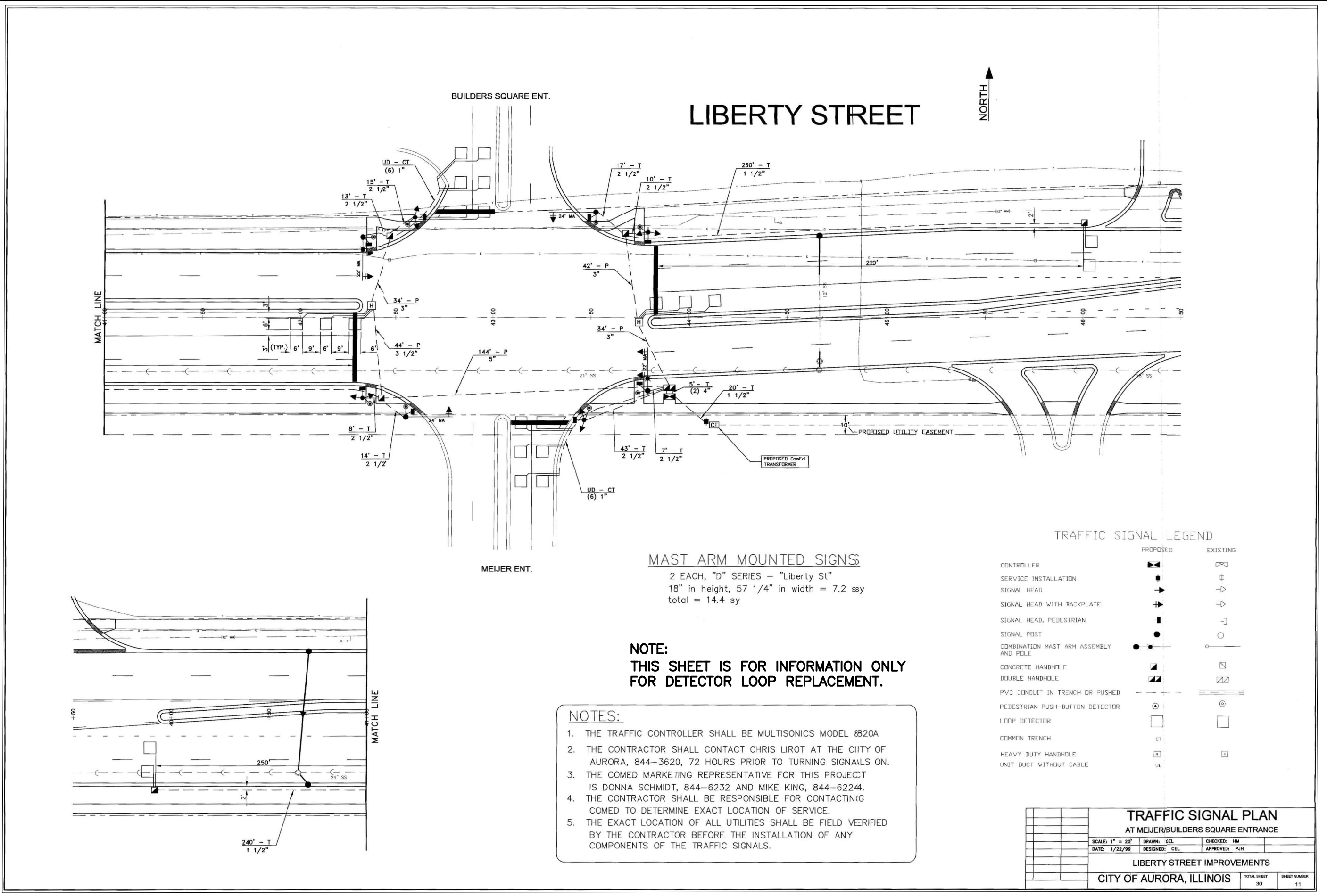
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIBERTY ST. AND STATION BLVD. CABLE PLAN
FOR INFORMATION ONLY

SCALE: N.T.S. SHEET NO. 02 OF 02 SHEETS STA. TO STA.

FAU. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 15
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: [REDACTED]
 PROJECT CONTACT: [REDACTED]
 CLIENT: [REDACTED]
 DATE PLOTTED: 10/24/2022 10:14 AM
 FILE NAME: 211322-Details
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: SEC-Standard.ctb



MAST ARM MOUNTED SIGNS
 2 EACH, "D" SERIES - "Liberty St"
 18" in height, 57 1/4" in width = 7.2 ssy
 total = 14.4 sy

NOTE:
 THIS SHEET IS FOR INFORMATION ONLY
 FOR DETECTOR LOOP REPLACEMENT.

- NOTES:**
1. THE TRAFFIC CONTROLLER SHALL BE MULTISONICS MODEL 820A
 2. THE CONTRACTOR SHALL CONTACT CHRIS LIROT AT THE CITY OF AURORA, 844-3620, 72 HOURS PRIOR TO TURNING SIGNALS ON.
 3. THE COMED MARKETING REPRESENTATIVE FOR THIS PROJECT IS DONNA SCHMIDT, 844-6232 AND MIKE KING, 844-6224.
 4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING COMED TO DETERMINE EXACT LOCATION OF SERVICE.
 5. THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNALS.

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
COMBINATION MAST ARM ASSEMBLY AND POLE		
CONCRETE HANDHOLE		
DOUBLE HANDHOLE		
PVC CONDUIT IN TRENCH OR PUSHED		
PEDESTRIAN PUSH-BUTTON DETECTOR		
LOOP DETECTOR		
COMMON TRENCH	CT	
HEAVY DUTY HANDHOLE		
UNIT DUCT WITHOUT CABLE	UD	

TRAFFIC SIGNAL PLAN			
AT MEIJER/BUILDERS SQUARE ENTRANCE			
SCALE: 1" = 20'	DRAWN: CEL	CHECKED: HM	
DATE: 1/22/99	DESIGNED: CEL	APPROVED: PJH	
LIBERTY STREET IMPROVEMENTS			
CITY OF AURORA, ILLINOIS	TOTAL SHEET	30	SHEET NUMBER
			11

USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
FILE NAME = 211322-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

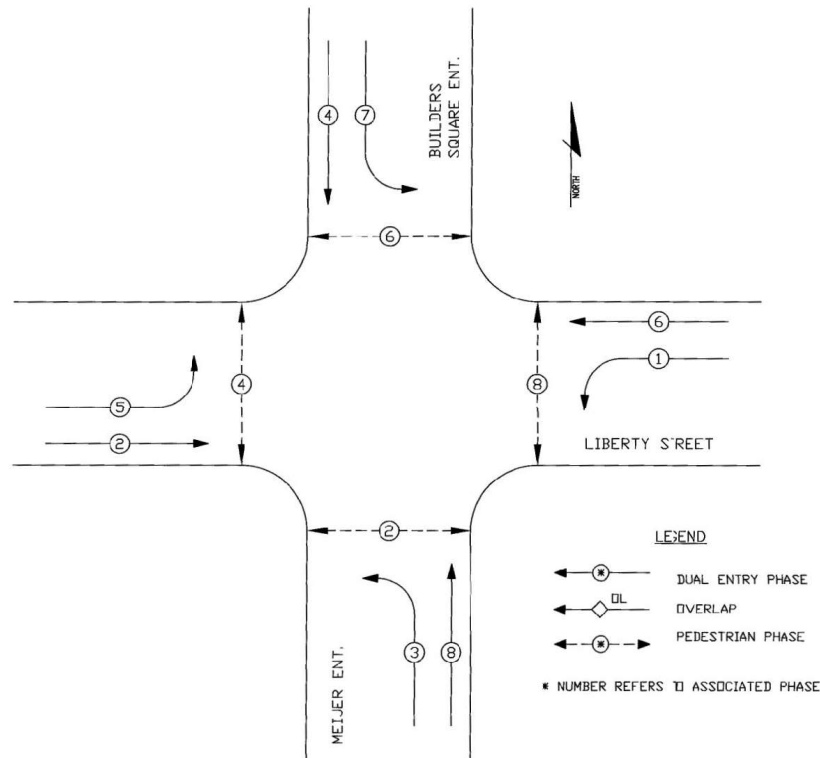
LIBERTY ST. AND MEIJER/BUILDERS SQUARE TRAFFIC SIGNAL PLAN
 FOR INFORMATION ONLY

SCALE: N.T.S. SHEET NO. 01 OF 02 SHEETS STA. TO STA.

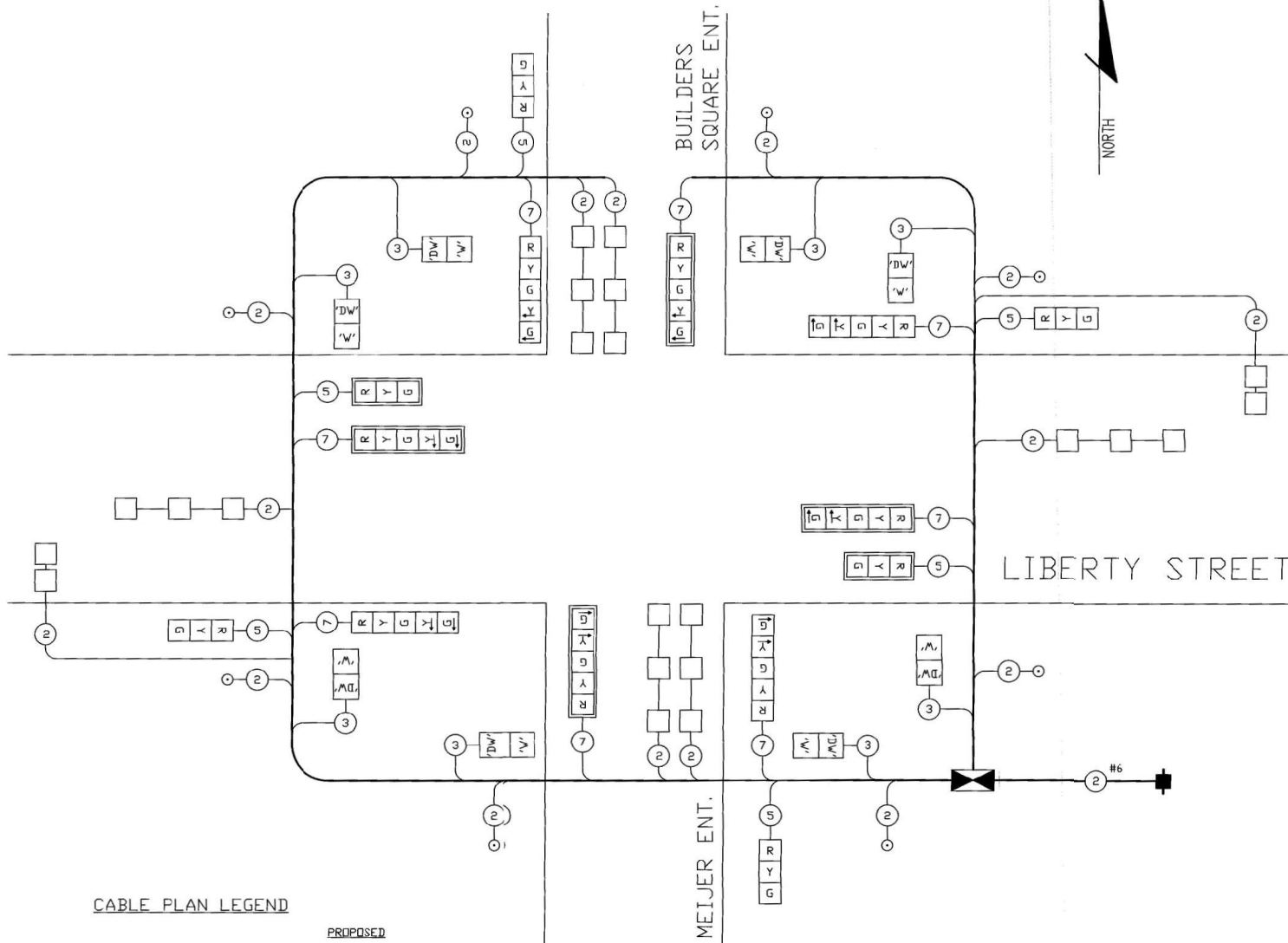
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	16
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

COMPANY NAME:
PROJECT CONTACT:
CLIENT:
DATE PLOTTED: 10/24/2022 10:14 AM
FILE NAME: 211322-Details
PLOT SCALE = N.T.S.
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: SEC-Standard.ctb

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



CABLE PLAN LEGEND

- 12" (300mm) TRAFFIC SIGNAL SECTION [R]
- 12" (300mm) PEDESTRIAN SIGNAL FACE
'DW' SHALL DISPLAY THE INTERNATIONAL SYMBOL FOR WALK (WALKING PERSON)
'W' SHALL DISPLAY THE INTERNATIONAL SYMBOL DON'T WALK (HAND) [DW], [W]
- CONTROLLER [X]
- SERVICE INSTALLATION [■]
- VEHICLE DETECTOR, INDUCTION LOOP [□]
- PUSHBUTTON DETECTOR [○]
- INDICATES NUMBER OF CONDUCTORS
ALL CABLE NO. 14 EXCEPT AS INDICATED
ALL LOOP DETECTOR CABLE TO BE SHIELDED [②]
- SIGNAL FACE WITH BACKPLATE [R, Y, G, W, Y, G, E]

PROPOSED

CABLE PLAN

NOTE:
THIS SHEET IS FOR INFORMATION ONLY.

CABLE PLAN AND PHASE DESIGNATION AT MEIJER/BUILDERS SQUARE ENTRANCE			
SCALE: N.T.S.	DRAWN BY: CEL	DESIGNED BY: CEL	
DATE: 1/27/99	CHECKED BY: CEL	APPROVED BY: PJH	
LIBERTY STREET IMPROVEMENTS			
BY: []	DATE: []	TOTAL SHEETS: 30	SHEET NUMBER: 12
CITY OF AURORA, ILLINOIS ENGINEERING DEPARTMENT			

USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
FILE NAME = 211322-Details	DRAWN - MPL	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LIBERTY ST. AND MEIJER/BUILDERS SQUARE CABLE PLAN
FOR INFORMATION ONLY

SCALE: N.T.S. SHEET NO. 02 OF 02 SHEETS STA. TO STA.

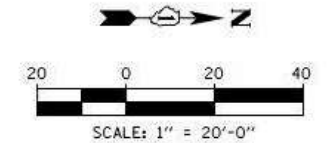
FAU. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 17
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

NOTE:
THIS SHEET IS FOR INFORMATION ONLY
FOR DETECTOR LOOP REPLACEMENT.

CONTRACTOR SHALL MAKE THE FINAL SERVICE CONNECTION BETWEEN CONTROLLER AND EXISTING GROUND MOUNTED SERVICE UTILIZING THE PREVIOUSLY PROVIDED 2" STUB

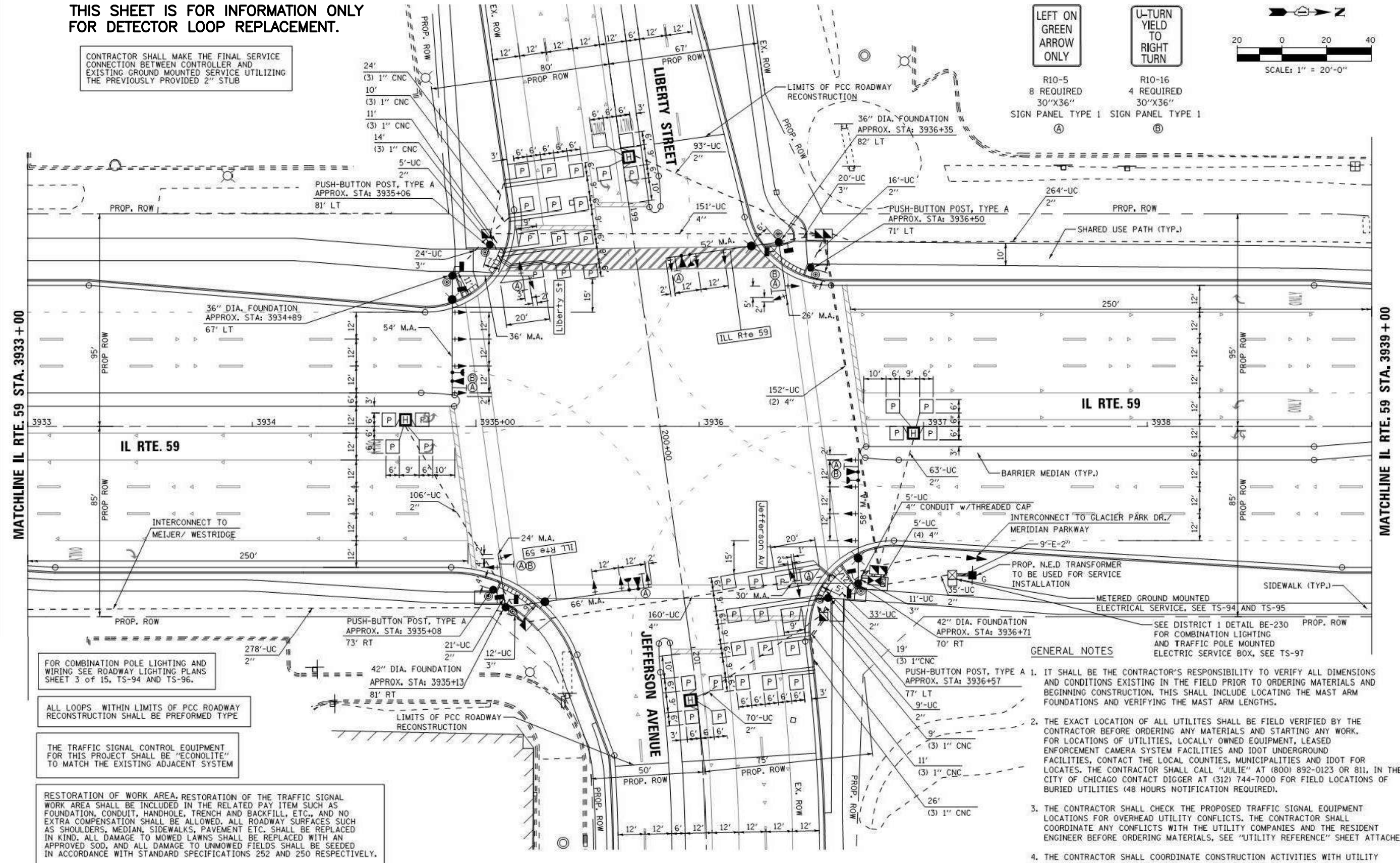
LEFT ON GREEN
ARROW ONLY

U-TURN
YIELD TO
RIGHT
TURN



R10-5
8 REQUIRED
30"X36"
SIGN PANEL TYPE 1

R10-16
4 REQUIRED
30"X36"
SIGN PANEL TYPE 1



FOR COMBINATION POLE LIGHTING AND WIRING SEE ROADWAY LIGHTING PLANS SHEET 3 OF 15, TS-94 AND TS-96.

ALL LOOPS WITHIN LIMITS OF PCC ROADWAY RECONSTRUCTION SHALL BE PERFORMED TYPE

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "ECONOLITE" TO MATCH THE EXISTING ADJACENT SYSTEM

RESTORATION OF WORK AREA: RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

GENERAL NOTES

- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. THIS SHALL INCLUDE LOCATING THE MAST ARM FOUNDATIONS AND VERIFYING THE MAST ARM LENGTHS.
- THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE ORDERING ANY MATERIALS AND STARTING ANY WORK. FOR LOCATIONS OF UTILITIES, LOCALLY OWNED EQUIPMENT, LEASED ENFORCEMENT CAMERA SYSTEM FACILITIES AND IDOT UNDERGROUND FACILITIES, CONTACT THE LOCAL COUNTIES, MUNICIPALITIES AND IDOT FOR LOCATES. THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811, IN THE CITY OF CHICAGO CONTACT DIGGER AT (312) 744-7000 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL CHECK THE PROPOSED TRAFFIC SIGNAL EQUIPMENT LOCATIONS FOR OVERHEAD UTILITY CONFLICTS. THE CONTRACTOR SHALL COORDINATE ANY CONFLICTS WITH THE UTILITY COMPANIES AND THE RESIDENT ENGINEER BEFORE ORDERING MATERIALS. SEE "UTILITY REFERENCE" SHEET ATTACHED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, LOCAL GOVERNMENT AGENCIES AND IDOT.

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		CHECKED - KMM	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC SIGNAL MODERNIZATION PLAN
IL RTE 59 AT LIBERTY ST / JEFFERSON AVE**

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
338	(112 & 113) WRS-7	DUPAGE	1156	626
TS-34			CONTRACT NO. 60R30	
ILLINOIS FED. AID PROJECT				

FILE NAME = 211322-Details	USER NAME = MLEWIS	DESIGNED - MPL	REVISED -
		DRAWN - MPL	REVISED -
		CHECKED - TW	REVISED -
		DATE - 10/24/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LIBERTY ST. AND IL. RTE 59 TRAFFIC SIGNAL PLAN
FOR INFORMATION ONLY**

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	18
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: STATE OF ILLINOIS
PROJECT CONTACT: DEPARTMENT OF TRANSPORTATION
DATE PLOTTED: 10/24/2022 10:14 AM
FILE NAME: 211322-Details
PLOT DRIVER: DWG TO PDF.pc3
PEN TABLE: SEC-Standard.ctb

SCHEDULE OF QUANTITIES

QUANTITY	UNIT	ITEM
90	SQ FT	SIGN PANEL - TYPE I
1	EACH	SERVICE INSTALLATION - GROUND MOUNTED
1002	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA.
67	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA.
640	FOOT	UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA.
5	EACH	HANDHOLE
4	EACH	HEAVY-DUTY HANDHOLE
2	EACH	DOUBLE HANDHOLE
1	EACH	TRANSCEIVER - FIBER OPTIC
1735	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
2902	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C
3753	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C
2021	FOOT	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C
3793	FOOT	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR
65	FOOT	ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C
894	FOOT	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 54 FT. AND 36 FT.
20	FOOT	CONCRETE FOUNDATION, TYPE A
4	FOOT	CONCRETE FOUNDATION, TYPE C
32	FOOT	CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER
46	FOOT	CONCRETE FOUNDATION, TYPE E 42-INCH DIAMETER
14	EACH	SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED
8	EACH	SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED
4	EACH	PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER
22	EACH	TRAFFIC SIGNAL BACKPLATE, LOUVERED, ALUMINUM
16	EACH	INDUCTIVE LOOP DETECTOR
64	FOOT	DETECTOR LOOP, TYPE I
1806	FOOT	PREFORMED DETECTOR LOOP
4	EACH	LIGHT DETECTOR
1	EACH	LIGHT DETECTOR AMPLIFIER
8	EACH	PEDESTRIAN PUSH-BUTTON
1	EACH	TEMPORARY TRAFFIC SIGNAL INSTALLATION
1	EACH	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT
12	EACH	REMOVE EXISTING HANDHOLE
9	EACH	REMOVE EXISTING CONCRETE FOUNDATION
1	EACH	TEMPORARY TRAFFIC SIGNAL TIMING
1134	FOOT	EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C
1	EACH	UNINTERRUPTIBLE POWER SUPPLY, SPECIAL
1	EACH	FULL-ACTUATED CONTROLLER AND SUPER P CABINET, TYPE IV, SPECIAL
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 52 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 30 FT. AND 58 FT.
1	EACH	STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 66 FT.
4	EACH	ILLUMINATED STREET NAME SIGN
4	EACH	PEDESTRIAN PUSHBUTTON POST, TYPE A

* 100% COST TO THE CITY OF NAPERVILLE
 ** 50% COST TO THE CITY OF NAPERVILLE
 50% COST TO THE CITY OF AURORA

I. D. O. T.
 TRAFFIC SIGNAL INSTALLATION
 ELECTRICAL SERVICE REQUIREMENTS

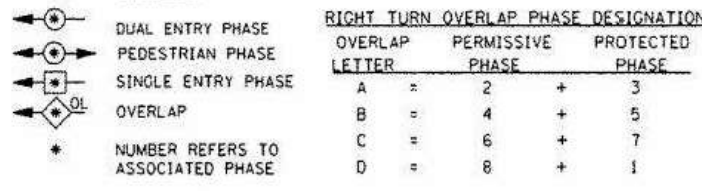
TYPE	NO. LAMPS	WATTAGE		% OPERATIONS	TOTAL WATTAGE
		INCAND.	LED		
SIGNAL (RED)	22	135	17	0.50	187
(YELLOW)	22	135	25	0.25	138
(GREEN)	22	135	15	0.25	83
ARROW	16	135	12	0.10	20
PED. SIGNAL	8	90	25	1.00	200
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN	4	90	0.50		180
TOTAL =					908

ENERGY COSTS- BILLED TO: IDOT DISTRICT 1
 201 W. CENTER CT.
 SCHAUMBURG, IL 60196-1096

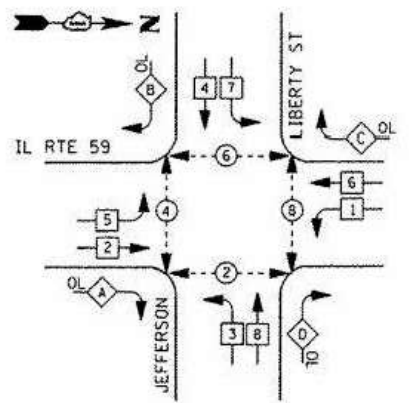
ENERGY SUPPLY - CONTACT BRIAN CHAMBERLAIN
 PHONE NAPERVILLE ELECTRIC DEPT.
 630-420-6653

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		JDR		
		KMM		

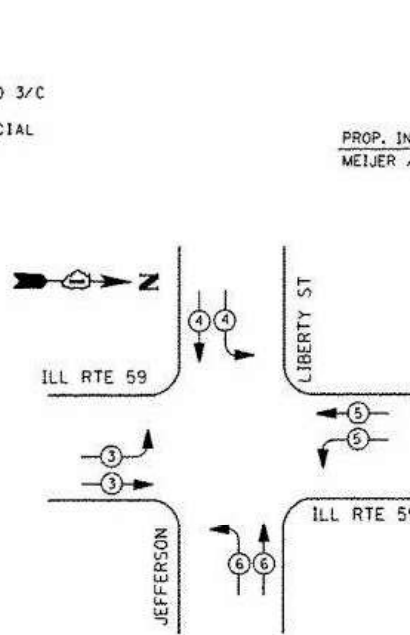
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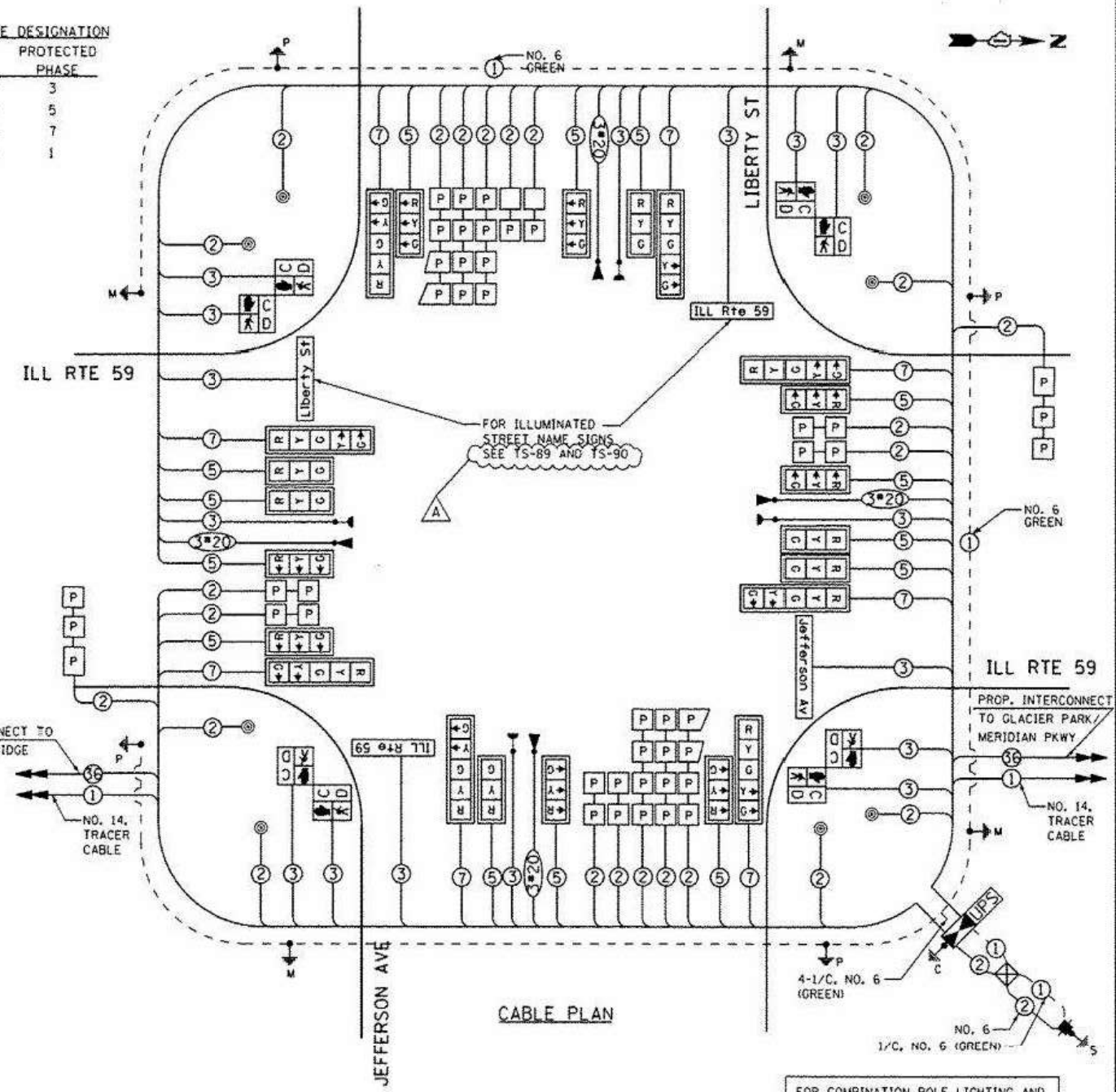
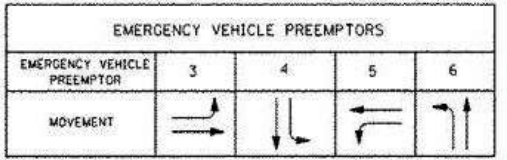
CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



EMERGENCY VEHICLE PREEMPTION SEQUENCE



NOTE:
 THIS SHEET IS FOR INFORMATION ONLY.

THE END OF THE TRACER CABLE SHALL BE CONTINUOUS AND EXTEND INTO THE CONTROLLER CABINET.

ALL LOOPS WITHIN LIMITS OF PCC ROADWAY RECONSTRUCTION SHALL BE PREFORMED TYPE

RESTORATION OF WORK AREA. RESTORATION OF THE TRAFFIC SIGNAL WORK AREA SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, TRENCH AND BACKFILL, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIAN, SIDEWALKS, PAVEMENT ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOG, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDING IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCALE	SHEET NO.	TOTAL SHEETS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N.T.S.	02	02	TS-37	DUPAGE	1156	629

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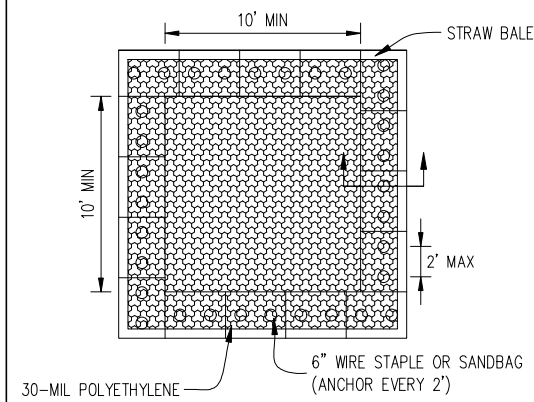
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MLEWIS	MPL	
MPL		
TW		

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

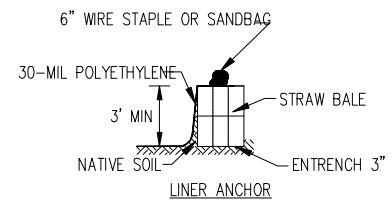
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N.T.S.	02	02	TS-37	DUPAGE	1156	629

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	19

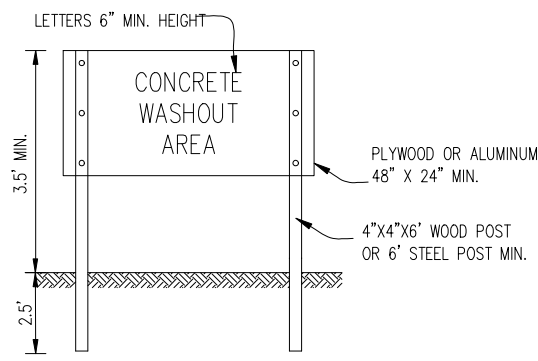
CONTRACT NO. 61J13
 ILLINOIS FED. AID PROJECT



PLAN VIEW



STRAW BALE ANCHOR SECTIONS

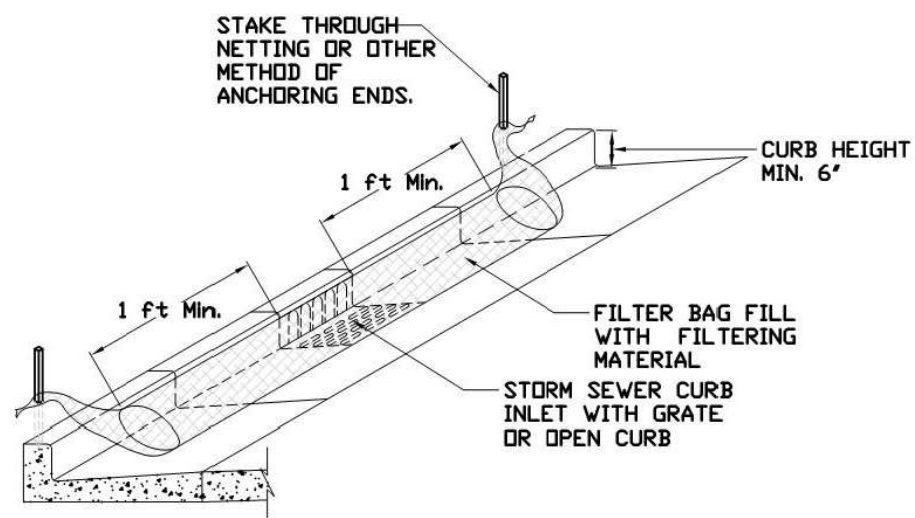


SIGN DETAIL

NOTES:

1. MAINTAINING TEMPORARY CONCRETE WASHOUT FACILITIES SHALL INCLUDE REMOVING AND DISPOSING OF HARDEND CONCRETE AND/OR SLURRY AND RETURNING THE FACILITIES TO A FUNCTIONAL CONDITION.
2. FACILITY SHALL BE CLEANED OR RECONSTRUCTED IN A NEW AREA ONCE WASHOUT BECOMES TWO-THIRDS FULL.
3. EACH STRAW BALE IS TO BE STAKED IN PLACE USING (2) 2"x2"x4' WOODEN STAKES.

INLET PROTECTION - PAVED AREAS CURB PROTECTION

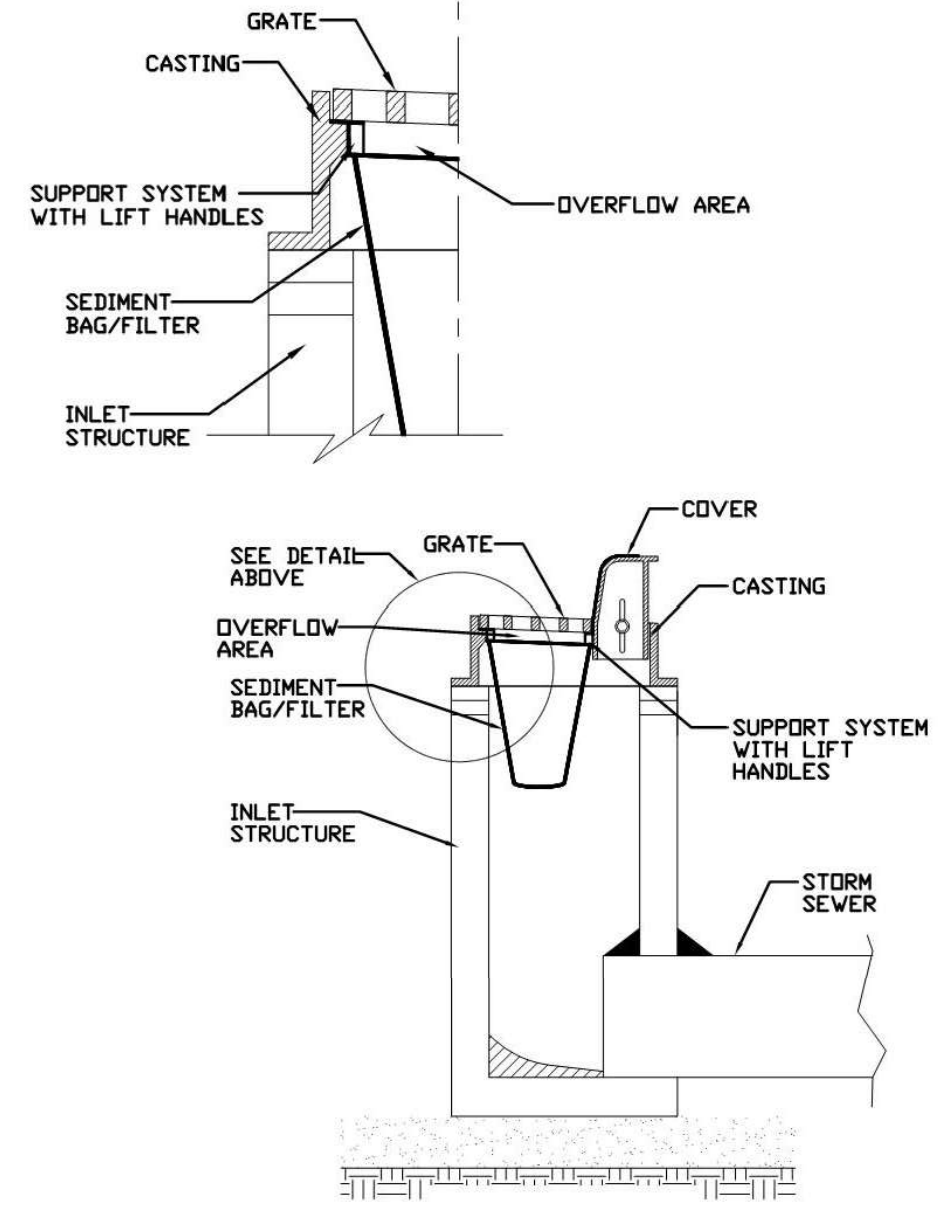


REFERENCE	Project	_____	Date	_____
	Designed	_____	Date	_____
	Checked	_____	Date	_____
	Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-561C
SHEET 1 OF 1
DATE 01-11-11

INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION



REFERENCE	Project	_____	Date	_____
	Designed	_____	Date	_____
	Checked	_____	Date	_____
	Approved	_____	Date	_____



STANDARD DWG. NO.
IUM-561D
SHEET 1 OF 1
DATE 01-11-11

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CLIENT: _____
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PLOT DATE: 10/24/2022
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PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

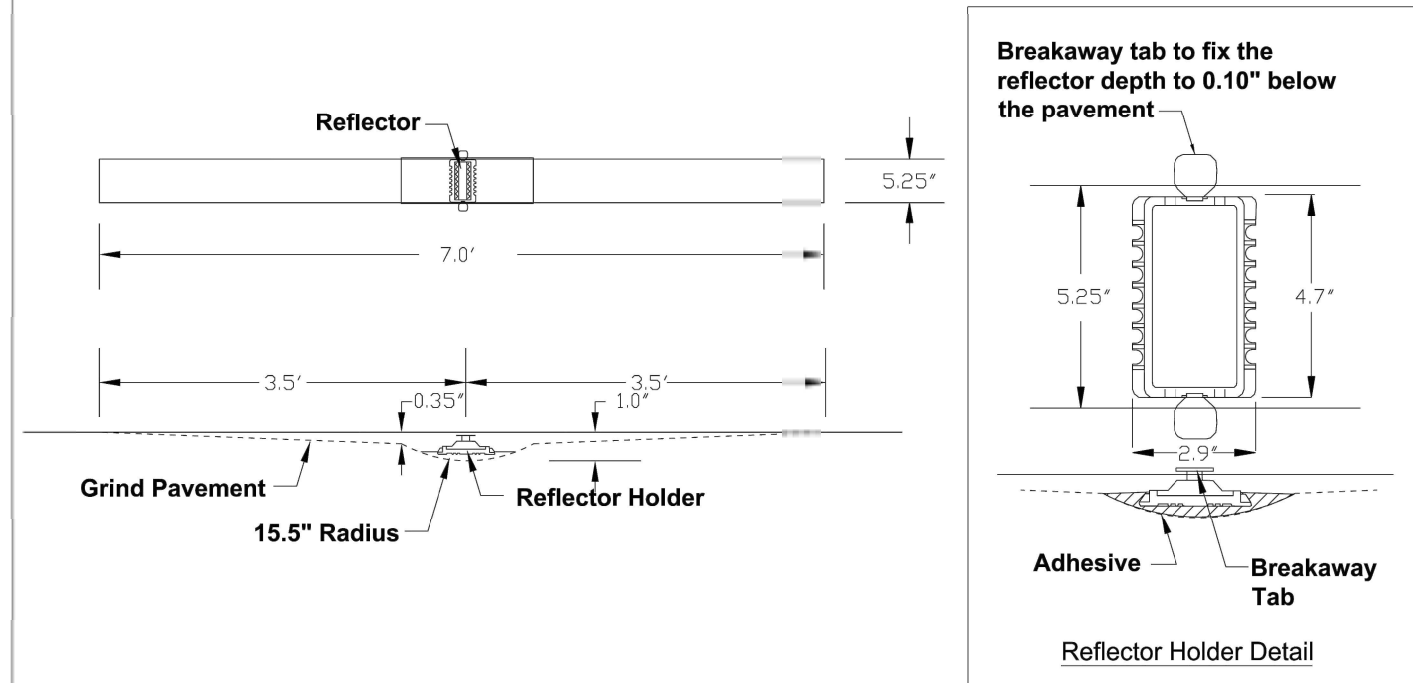
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	20
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				

INSTALLATION OF RECESSED REFLECTIVE PAVEMENT MARKERS:

LOCATION	SPACING
DOUBLE YELLOW CENTERLINE, & SKIP-DASH WHITE LANE LINES APPROACH & DEPARTURE FROM INTERSECTIONS & CURVES* * EQUAL TO LENGTH OF TURN BAY, OR 200'	40'
ALONG CURVES OR TAPERS	40'
TANGENT SECTIONS	80'
SOLID LANE LINES (TURN BAYS)	40'
END OF PAINTED MEDIANS	3 @ 3' LATERAL

LOCATION	TYPE
DOUBLE YELLOW CENTERLINE	2-WAY YELLOW
PAINTED MEDIANS ≤ 4' WIDE	2-WAY YELLOW
PAINTED MEDIANS >4' WIDE	1-WAY YELLOW
YELLOW LINE ALONG BARRIER MEDIANS ** EXCEPT IN SPECIAL CIRCUMSTANCES	NONE **
SKIP-DASH WHITE LANE LINES, SOLID LANE LINES (TURN BAYS) 2-WAY, UNDIVIDED ROADWAY	1-WAY WHITE
1-WAY ROADWAY, OR DIVIDED WITH BARRIER MEDIAN	2-WAY WHITE / RED

RECESSED PAVEMENT MARKER



1/30/2018
DuPAGE COUNTY D.O.T.

COMPANY NAME: [REDACTED]
PROJECT CONTACT: [REDACTED]
CLIENT: [REDACTED]
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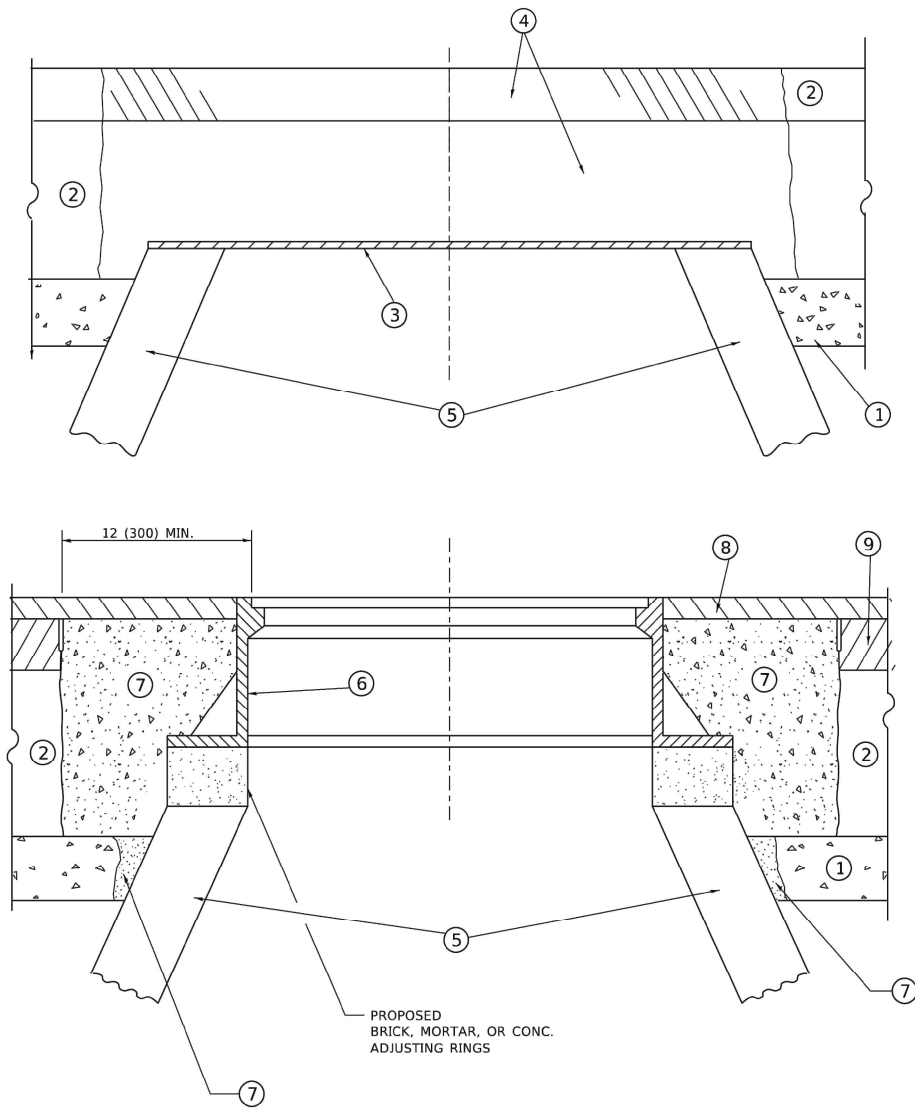
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PLOT DATE = 10/24/2022	DATE - 10/24/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

RECESSED PAVEMENT MARKER DETAIL

SCALE: N.T.S. SHEET NO. 01 OF 01 SHEETS STA. TO STA.

FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	21
CONTRACT NO. 61J13				
ILLINOIS FED. AID PROJECT				



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

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.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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 PLOT DATE: 2/2/2022
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	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETAILS FOR
 FRAMES AND LIDS ADJUSTMENT WITH MILLING**

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

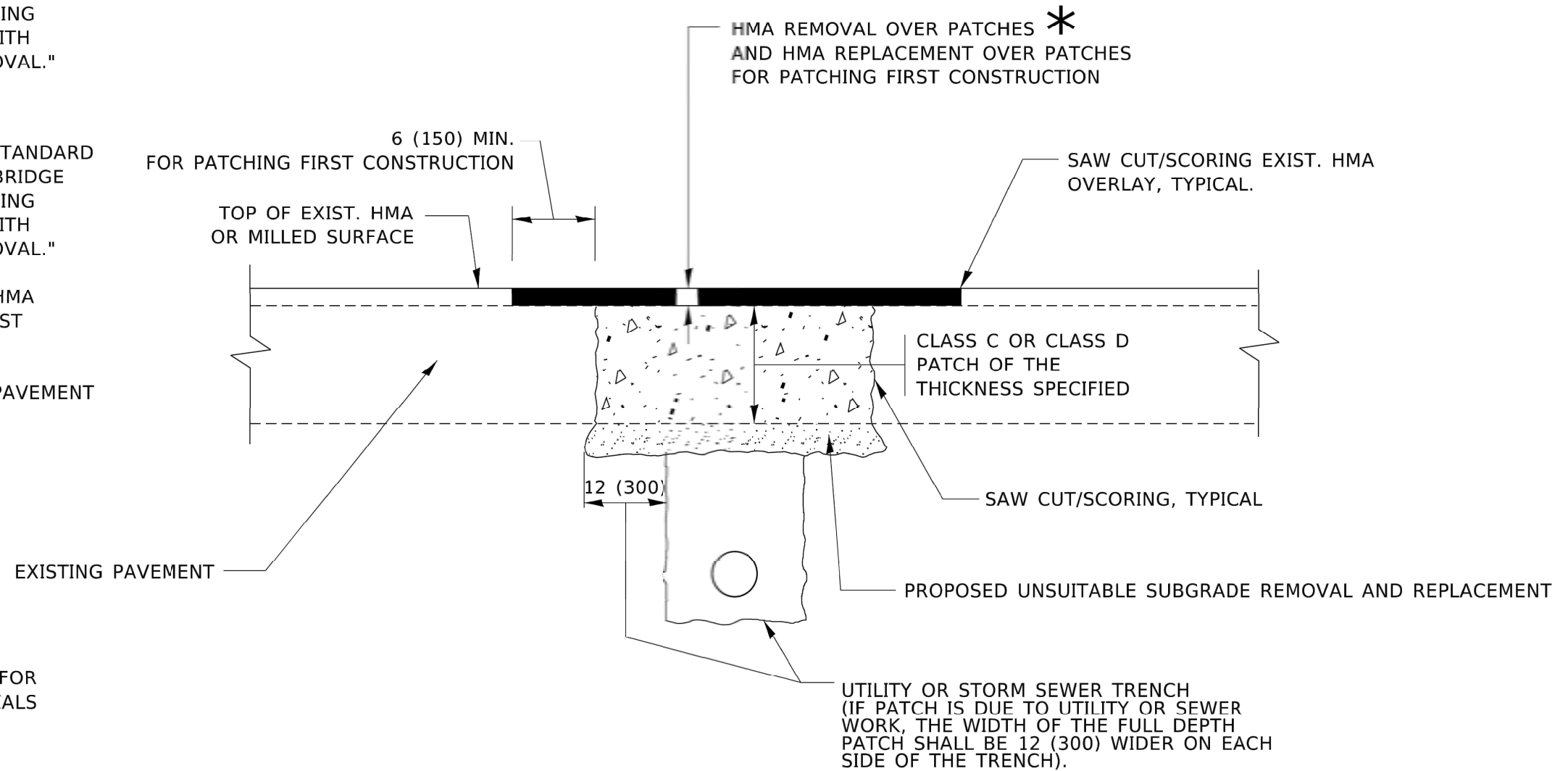
F.A.U. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 22
BD600-03 (BD-08)			CONTRACT NO. 61J13	
ILLINOIS FED. AID PROJECT				

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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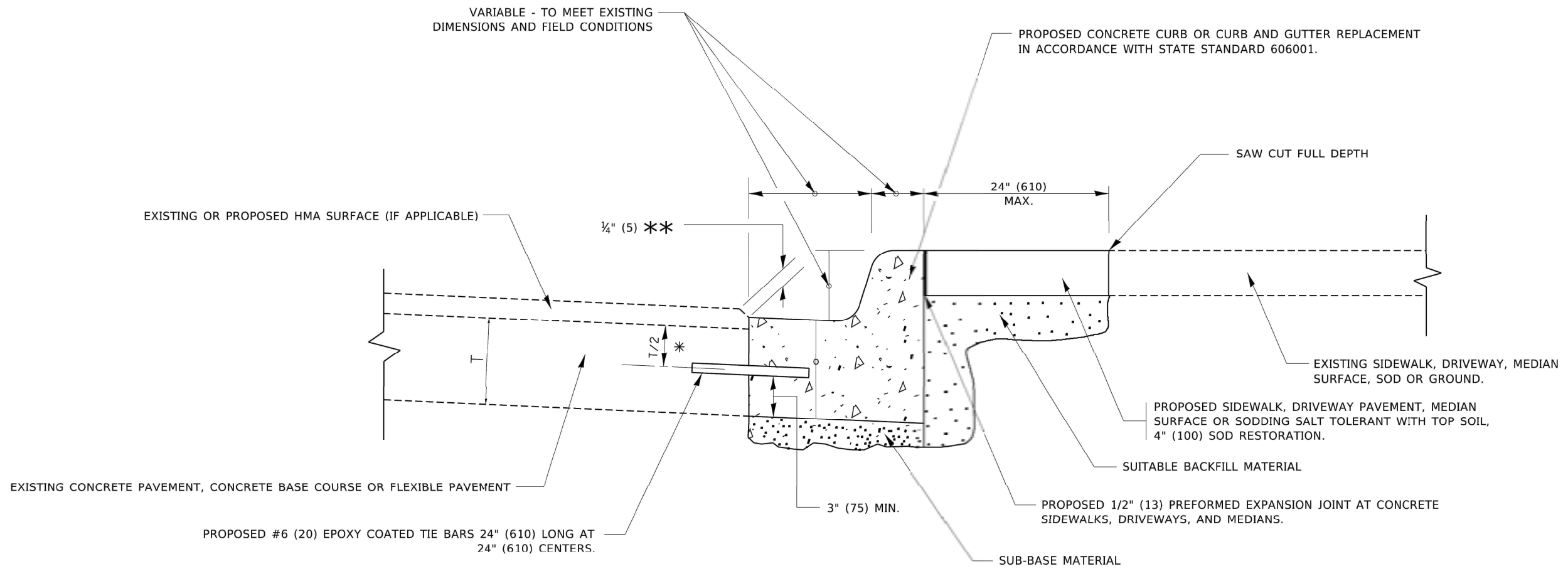
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
 HMA SURFACED PAVEMENT

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

FA.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	23
BD400-04 (BD-22)		CONTRACT NO. 61J13		
ILLINOIS FED. AID PROJECT				

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- * 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.

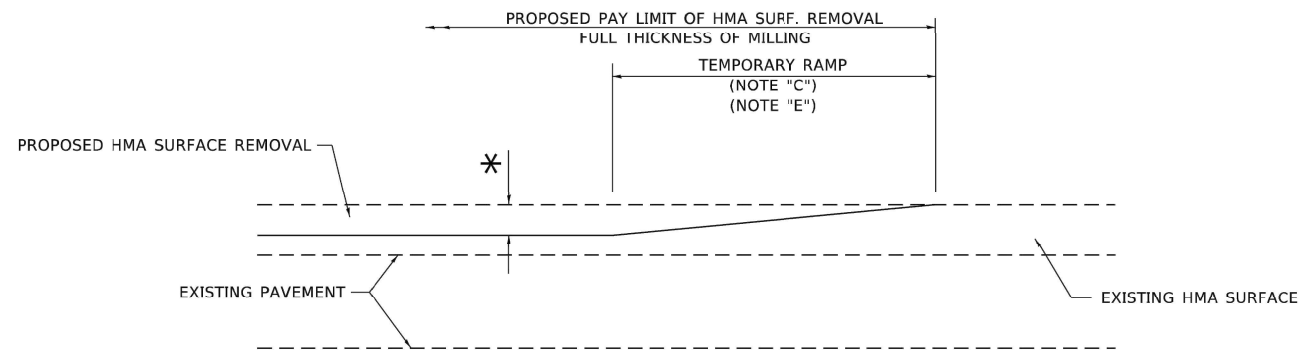
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PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISDFD - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

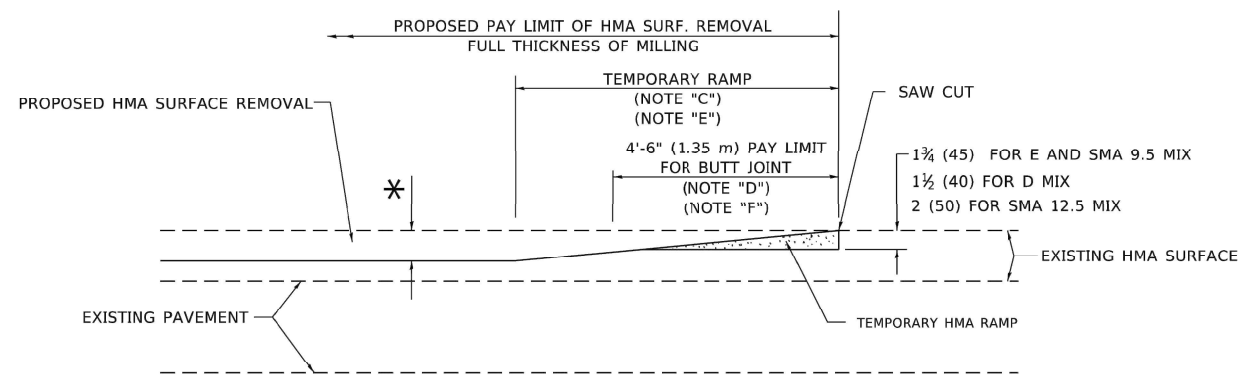
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	24
BD600-06 (BD-24)		CONTRACT NO. 61J13		
ILLINOIS FED. AID PROJECT				



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

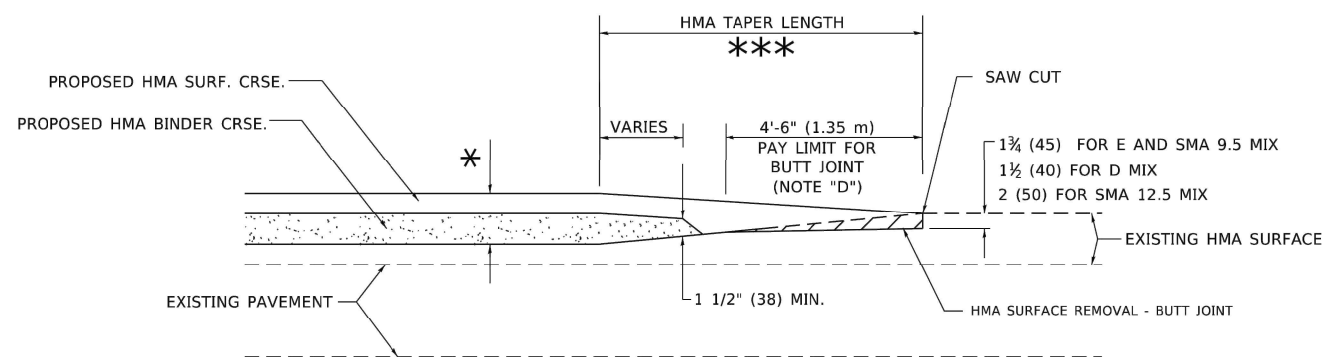
OPTION 1



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

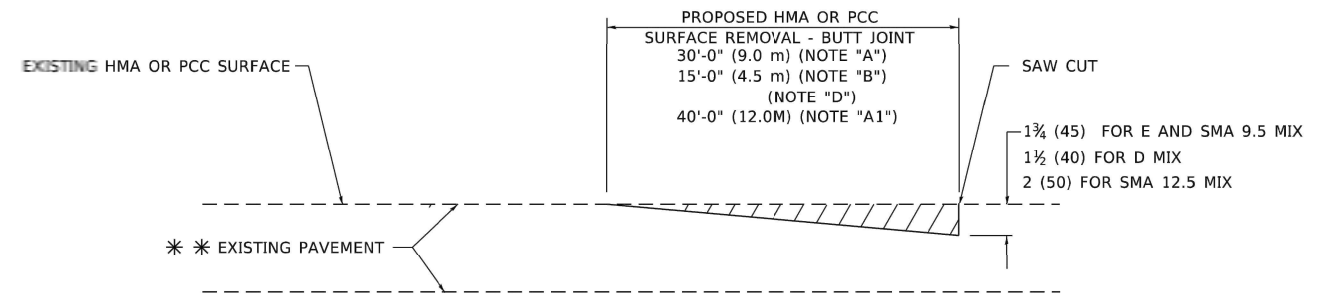
OPTION 2

TYPICAL TEMPORARY RAMP

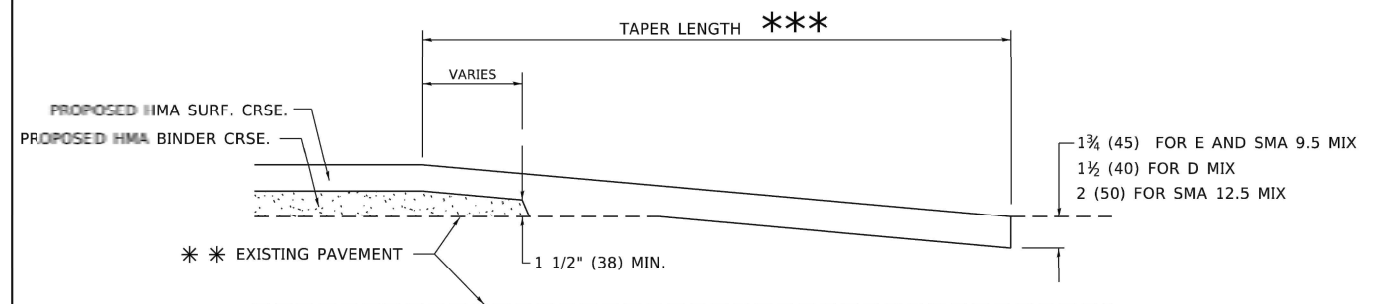


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

GENERAL NOTES

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

BASIS OF PAYMENT

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

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

DATE PLOTTED: 10/24/2022 10:15 AM
PLOT SCALE: 21.1322 -Details
PLOT ORIGIN: None
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FILE NAME: W:\04514022\31\B032.dgn

USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
DRAWN -	REVISOR - M. GOMEZ 04-06-01	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

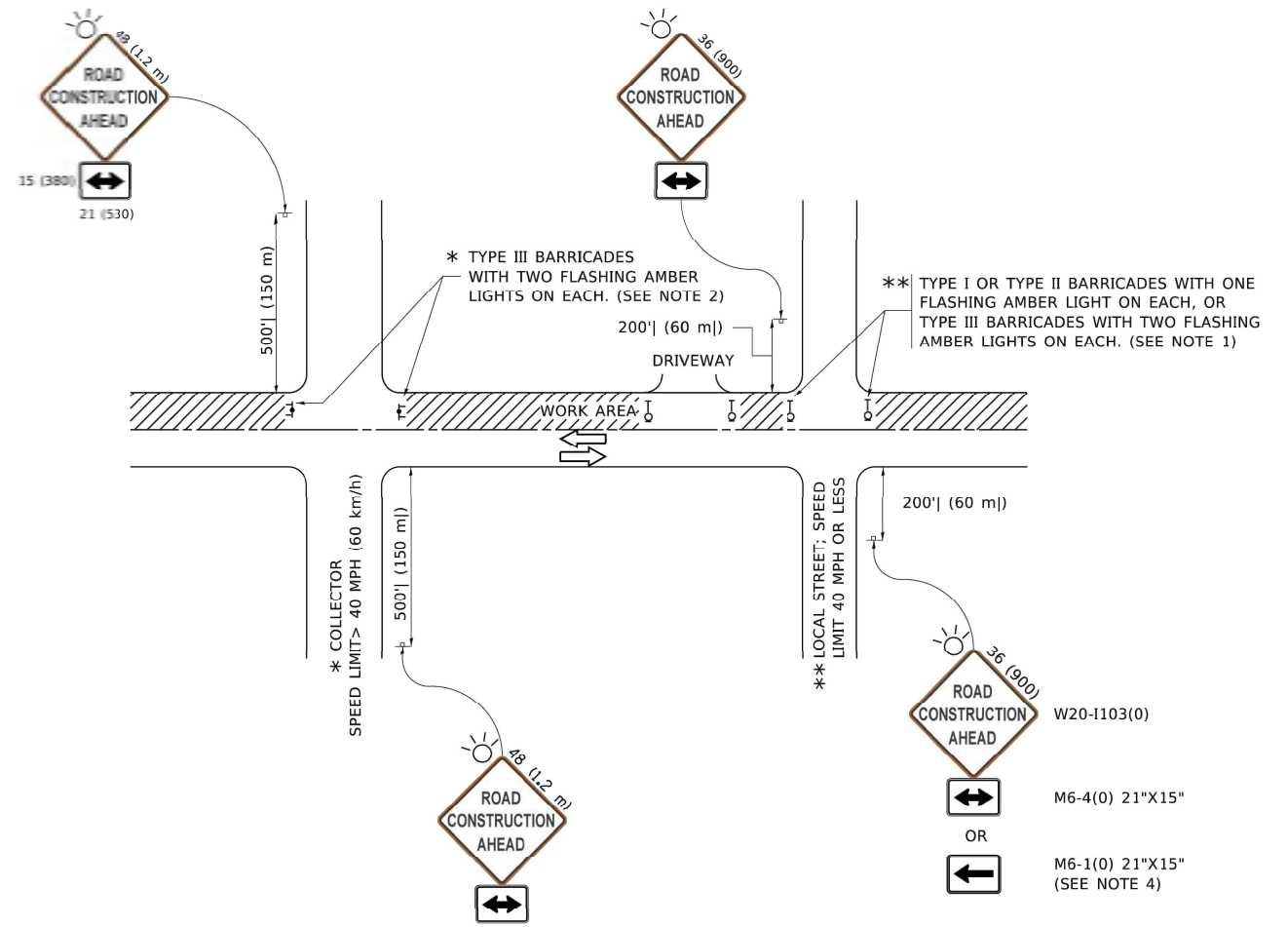
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	25
BD400-05		BD-32	CONTRACT NO. 61J13	
ILLINOIS FED. AID PROJECT				

DATE PLOTTED: 10/24/2022 10:15 AM
 PLOT NAME: 211322--Details
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NOTES:

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

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

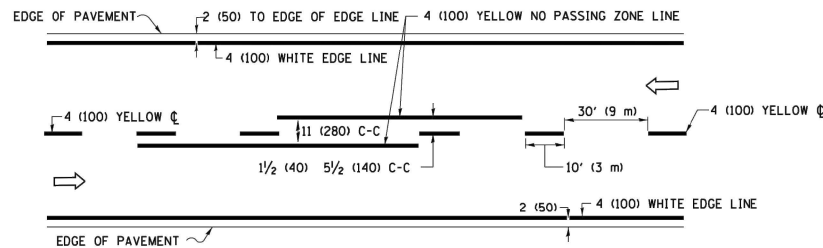
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PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

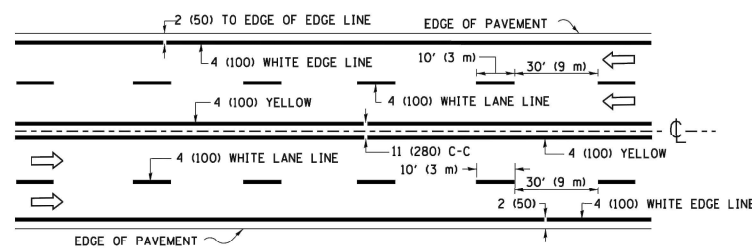
**TRAFFIC CONTROL AND PROTECTION FOR
 SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS**

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

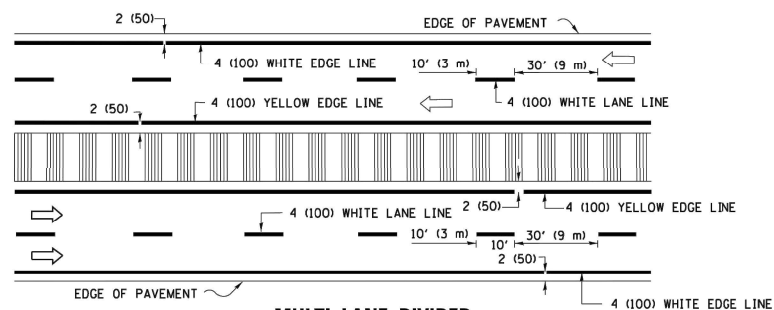
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3570	22-00347-00-RS	DUPAGE	33	26
TC-10			CONTRACT NO. 61J13	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

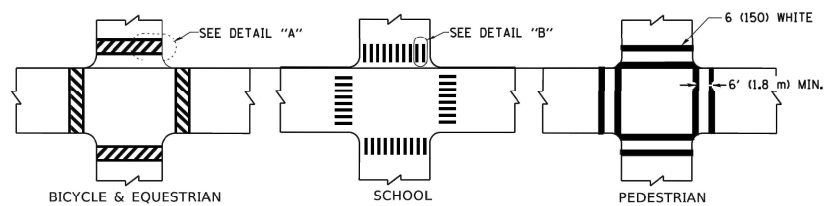


MULTI-LANE UNDIVIDED



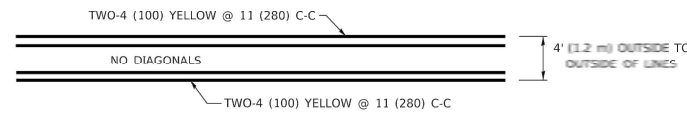
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

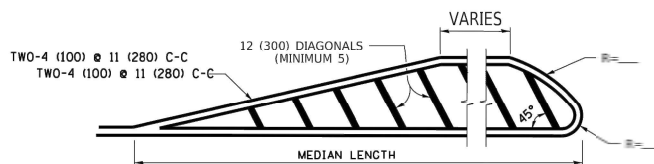


TYPICAL CROSSWALK MARKING

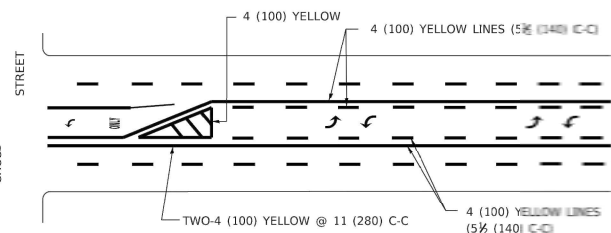
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



4' (1.2 m) WIDE MEDIANS ONLY

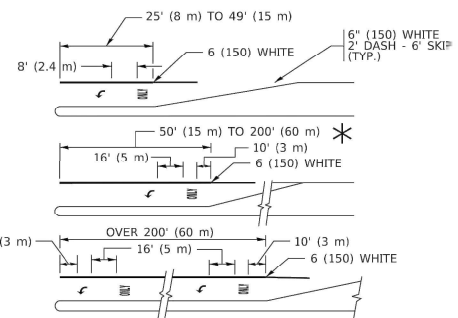


MEDIANS OVER 4' (1.2 m) WIDE



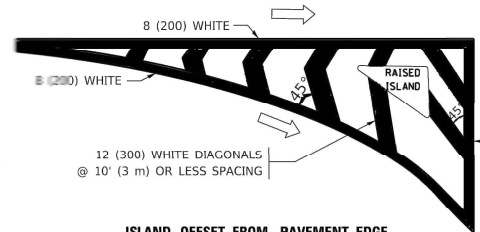
MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

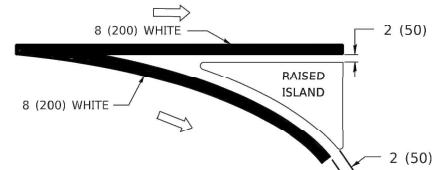


TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

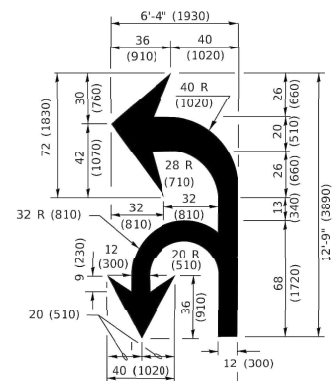


ISLAND OFFSET FROM PAVEMENT EDGE

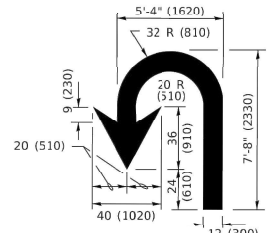


ISLAND AT PAVEMENT EDGE

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 (280) 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 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 (30 MPH (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" 15' (4.5 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

DATE PLOTTED: 10/24/2022 10:15 AM
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 PLOT DATE: 3/4/2019
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DRAWN -	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT SCALE = 50,000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 3/4/2019	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	27
TC-103			CONTRACT NO. 61J13	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

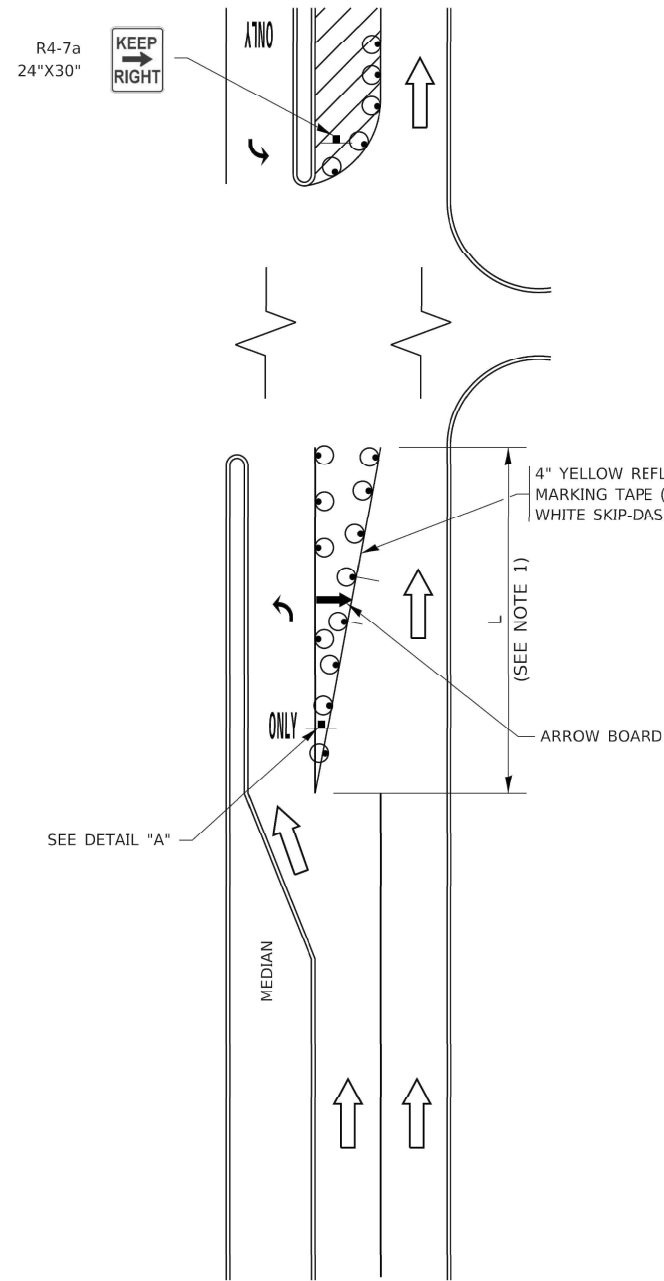


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

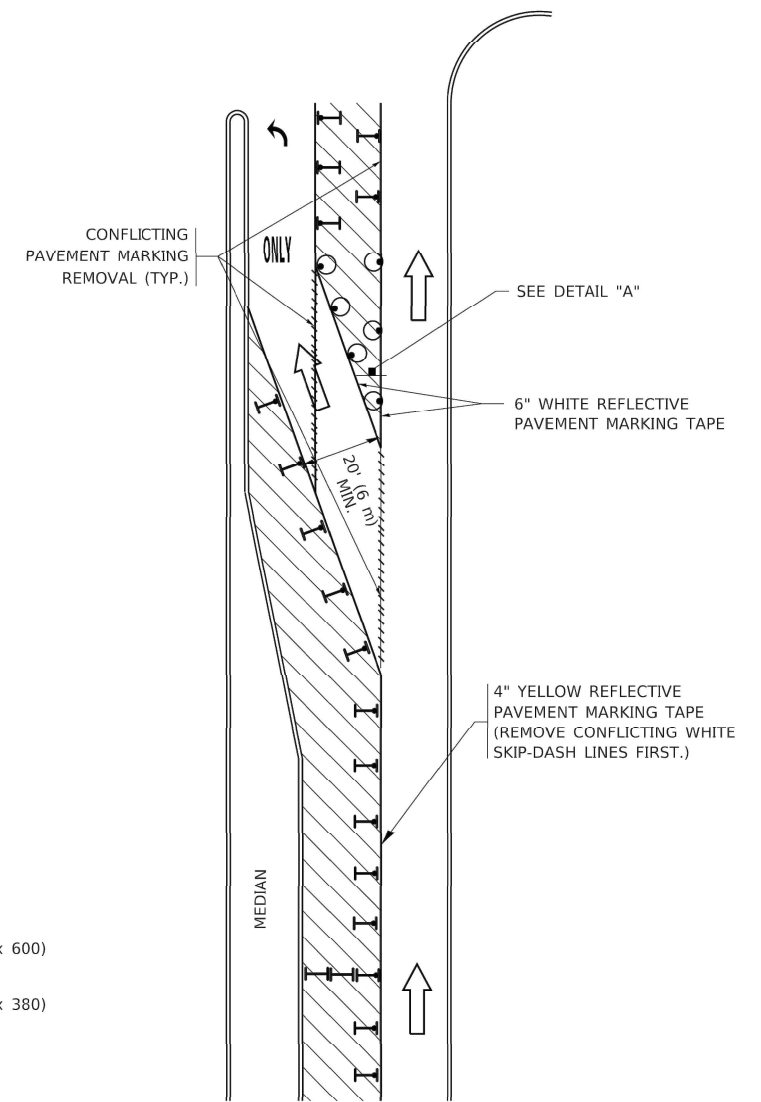
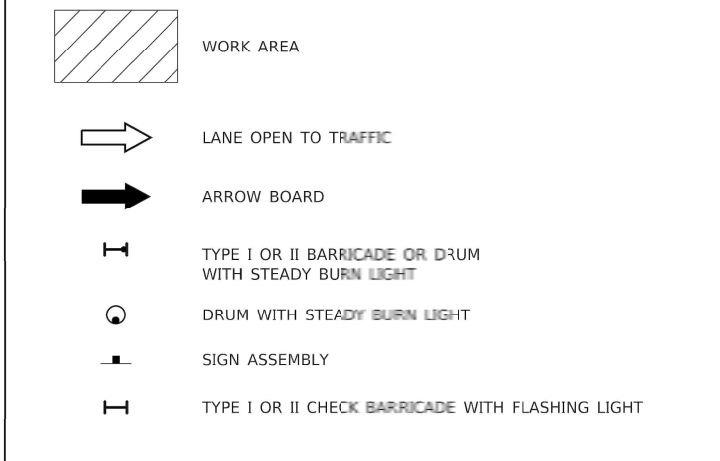


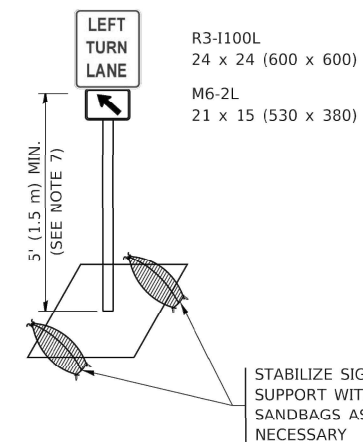
FIGURE 2

LEGEND



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 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH 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.

DATE PLOTTED: 10/24/2022 10:15 AM
 PLOT NAME: 211322-Details
 PLOT DATE: 3/4/2019
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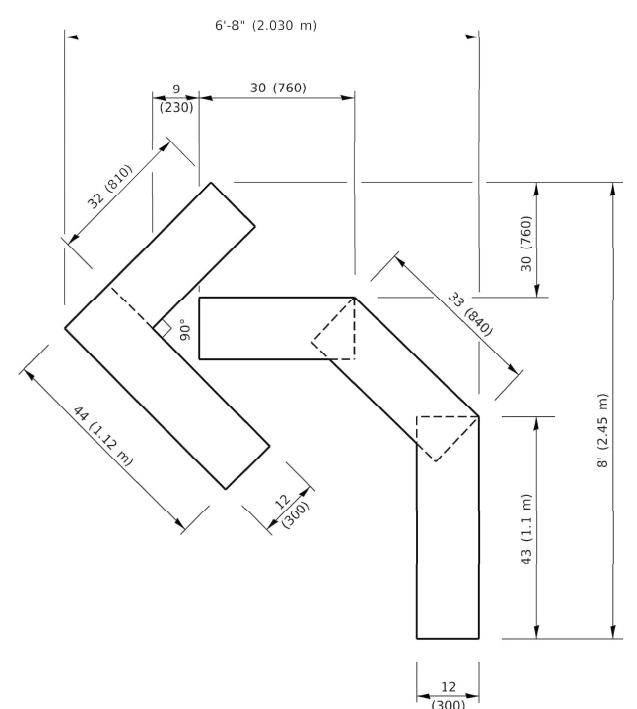
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50.0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

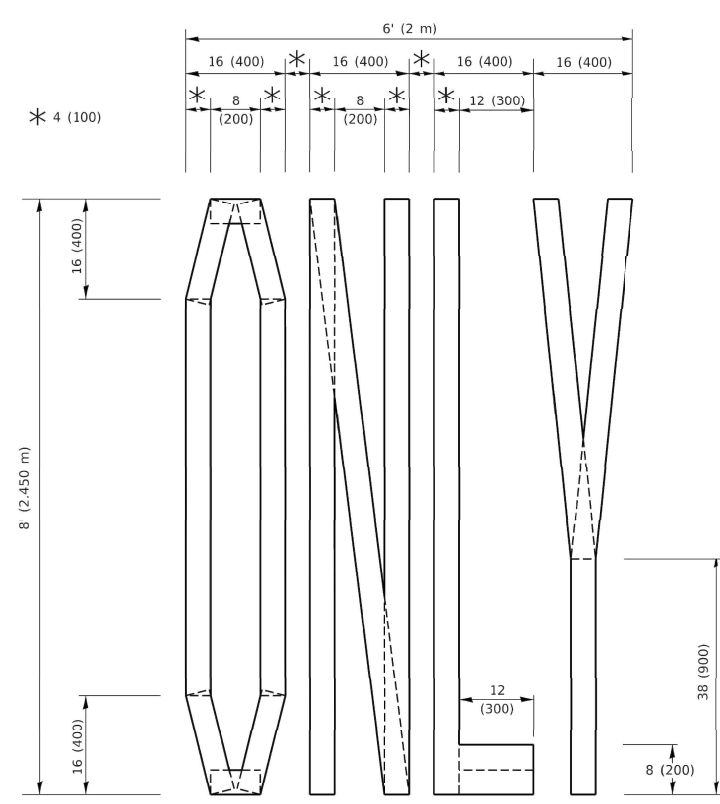
TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)

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

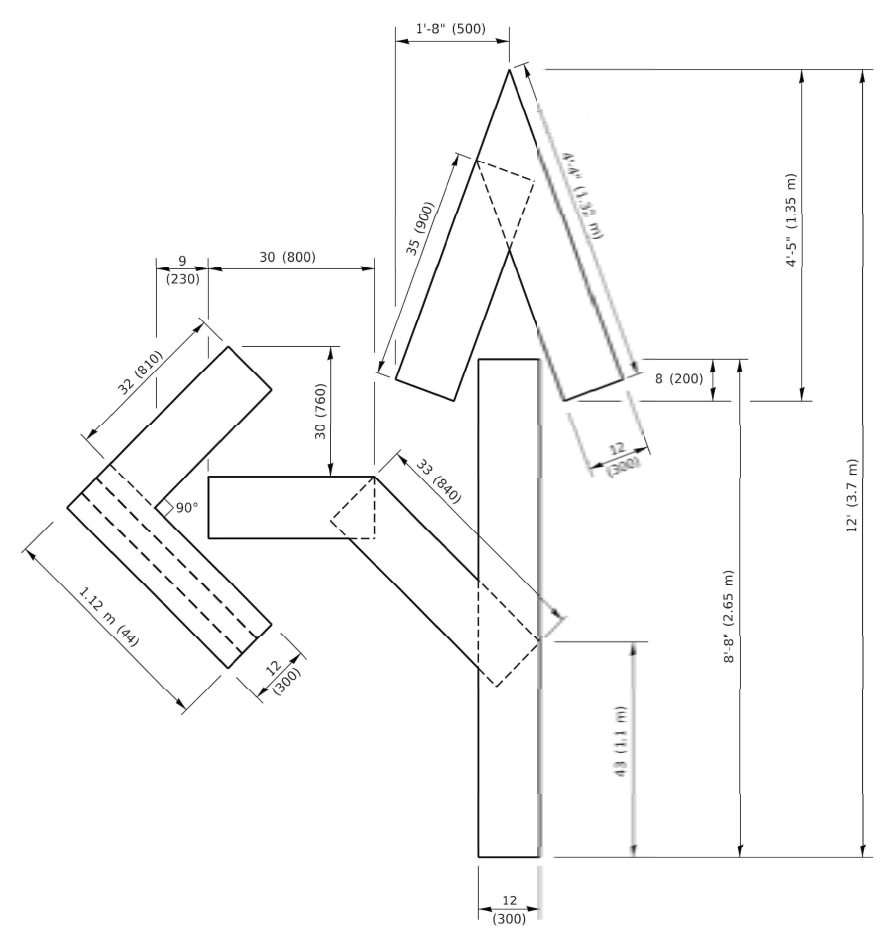
FAU. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	28
TC-14		CONTRACT NO.	61J13	
ILLINOIS FED. AID PROJECT				



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

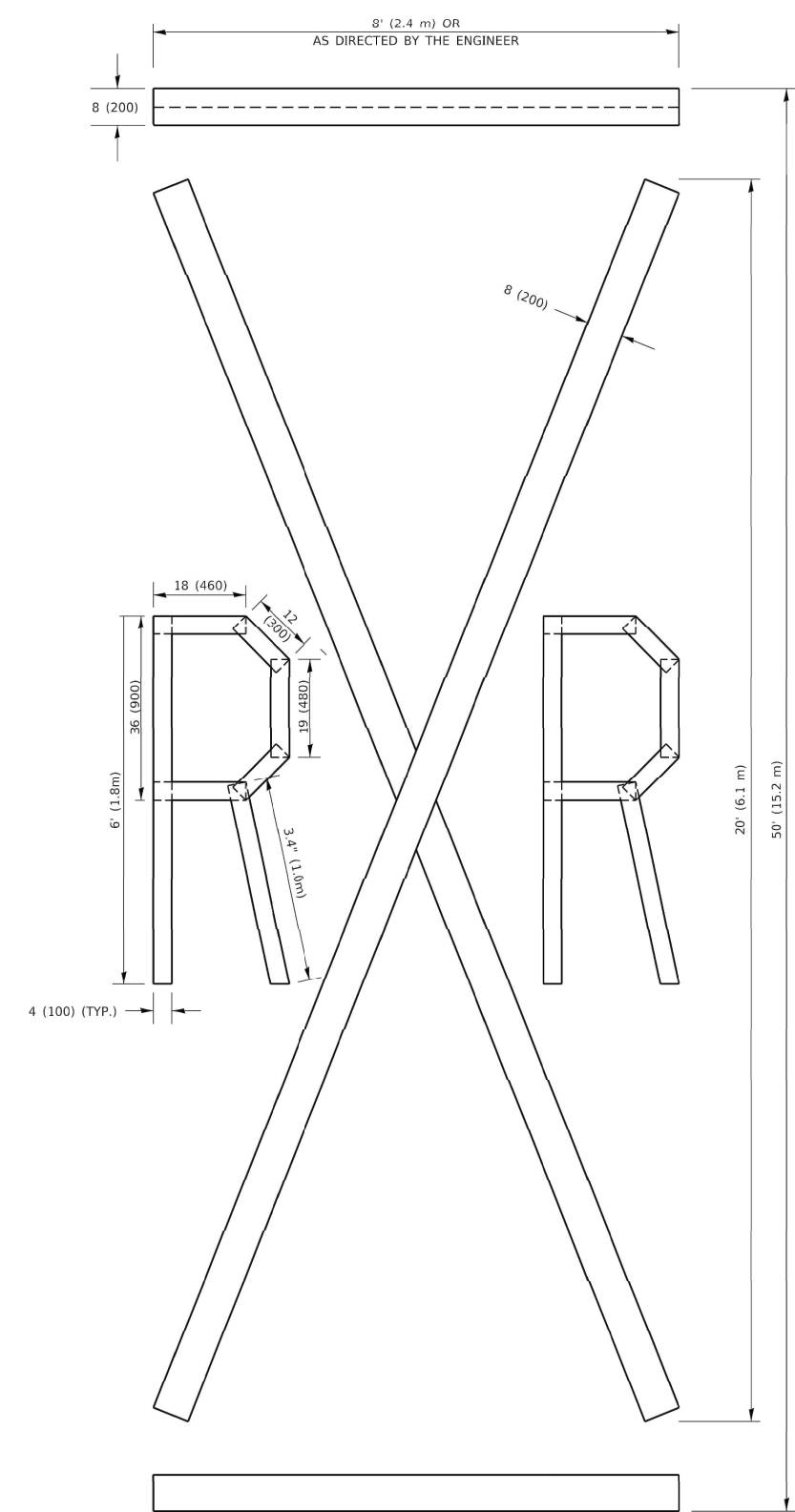


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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

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



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

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

DATE PLOTTED: 10/24/2022 10:15 AM
 PLOT NAME: 211322-Details
 PLOT DATE: 3/4/2019
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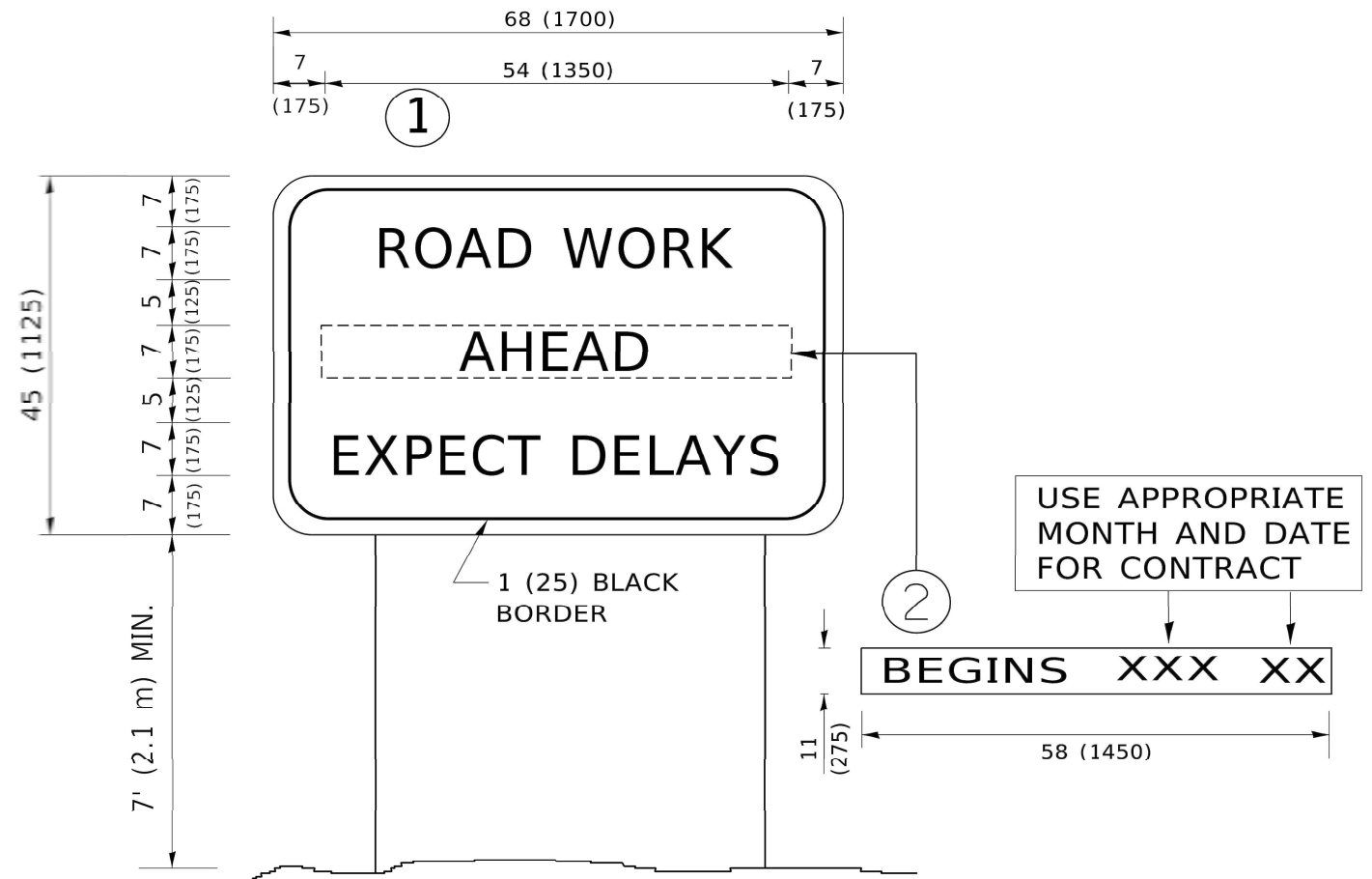
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET 1	OF 1	SHEETS
STA.	TO STA.		

F.A.U. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 29
TC-16		CONTRACT NO. 61J13		
ILLINOIS FED. AID PROJECT				

DATE PLOTTED: 10/24/2022 10:15 AM
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 FILE NAME: P:\VLOB\BIB\INTEG\Illinois.gov\PWIDOT\Documents\DOT_Offices\District_1\Projects\04555222\34\CAD\data\CAD\sheet\122.dgn



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.

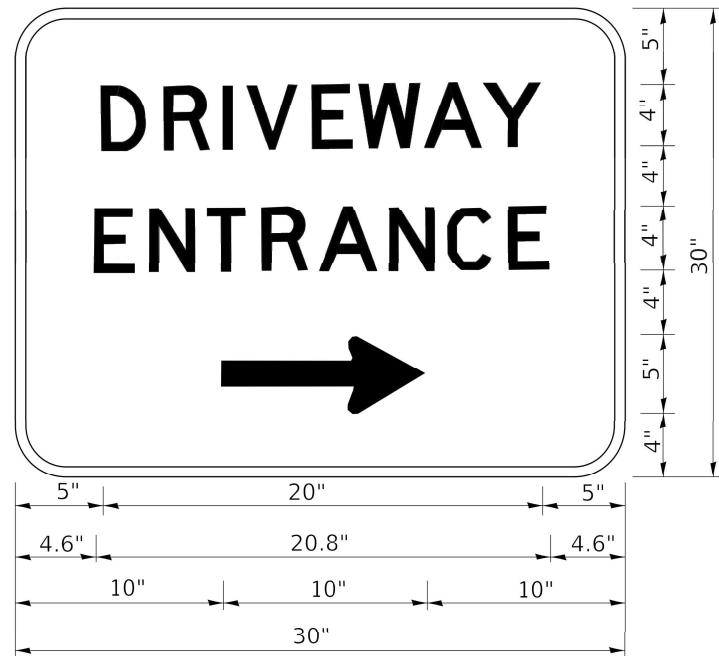
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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 50.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
 INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	30
TC-22		CONTRACT NO. 61J13		
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".

DATE PLOTTED: 10/24/2022 10:16 AM
 PLOT NAME: 211322-Details
 PLOT DATE: 8/6/2021
 FILE NAME: p:\plancom\dot\illinois.gov\p\dot\Documents\DOT_Offices\District_1\Projects\Dis502234\CAD\data\CADsheets\26.dgn

USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
PLOT SCALE = 50.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/6/2021	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

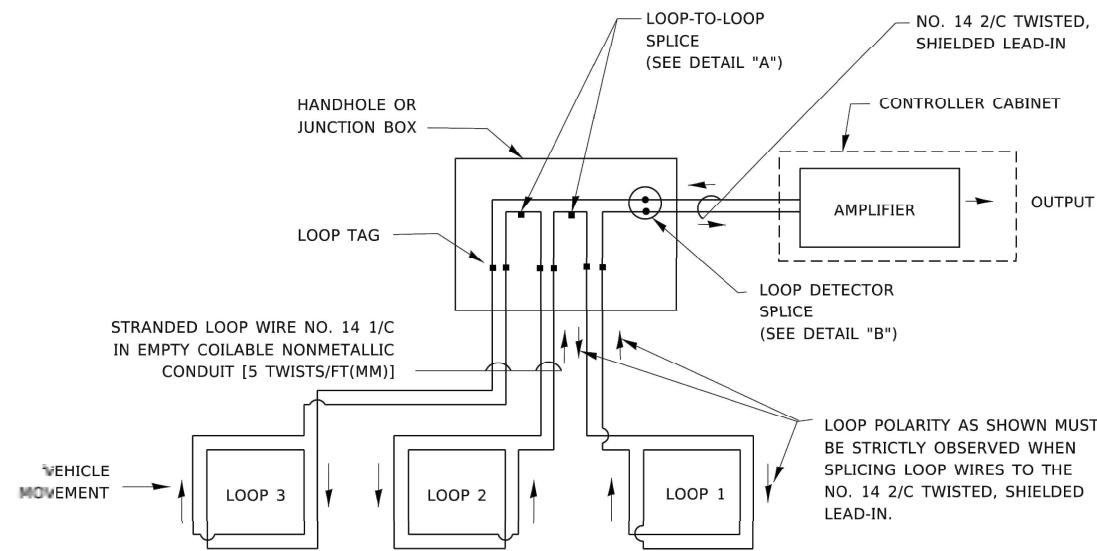
DRIVEWAY ENTRANCE SIGNING

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3570	22-00347-00-RS	DUPAGE	33	31
TC-26		CONTRACT NO. 61J13		
ILLINOIS FED. AID PROJECT				

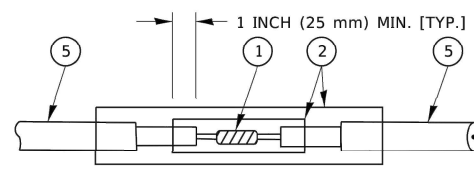
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

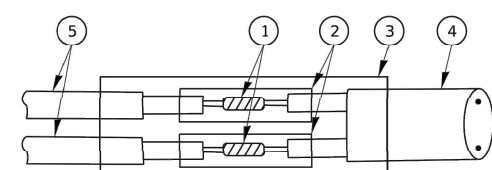


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

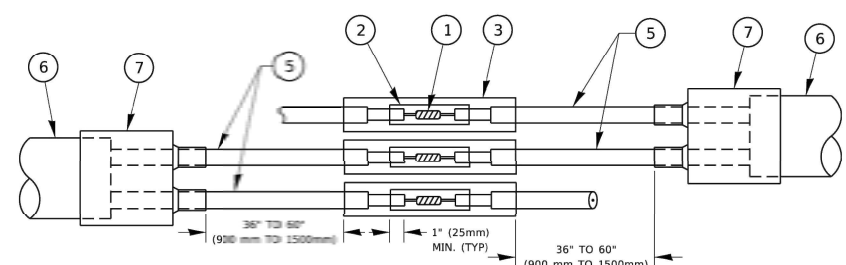


DETAIL "A"
LOOP-TO-LOOP SPLICE

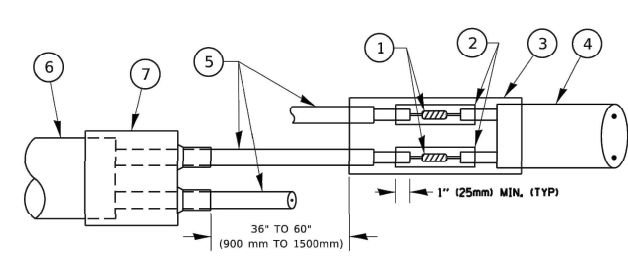


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



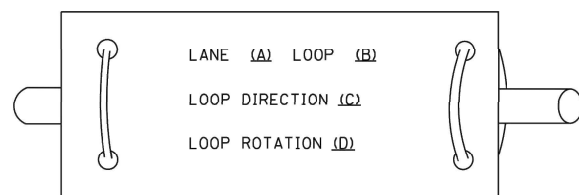
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH. THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGHT 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE. PREFORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR
- BREAKOUT SEALS. TYCO CBR-2 OR APPROVED EQUAL

LOOP LEAD-IN CABLE TAG



- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

DATE PLOTTED: 10/24/2022 10:16 AM
 PLOT DATE: 2/13/22 -Details
 PLOT SCALE: None
 PLOT DATE: 3/4/2019
 FILE NAME: P:\VLOG\BID\INTEG\Illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\045522234\CA\DD\ata\CA\DSheets\ts05.dgn

USER NAME = footemj	DESIGNED -	REVISED -
DRAWN -	REVISIED -	REVISIED -
PLOT SCALE = 50,0000' / in.	CHECKED -	REVISIED -
PLOT DATE = 3/4/2019	DATE -	REVISIED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

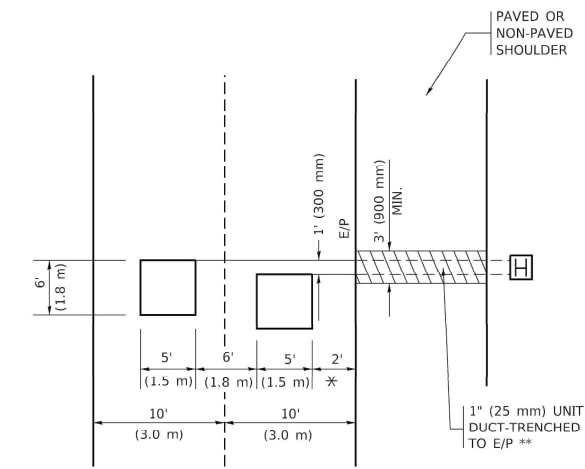
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A.U. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 32
TS-05		CONTRACT NO. 61J13		
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



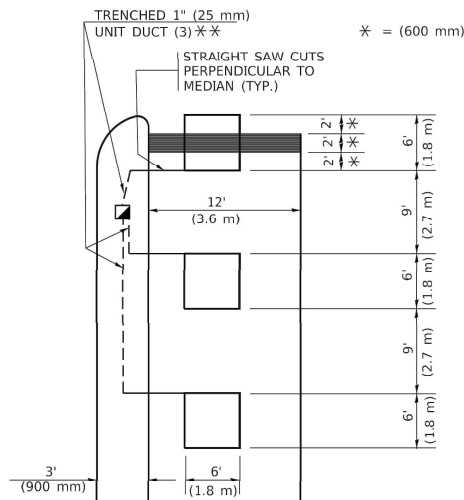
* = (600 mm)

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

LEFT TURN LANES WITH MEDIANS

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

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

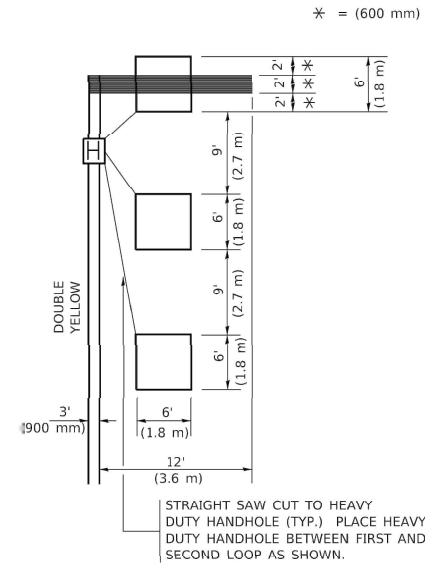


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

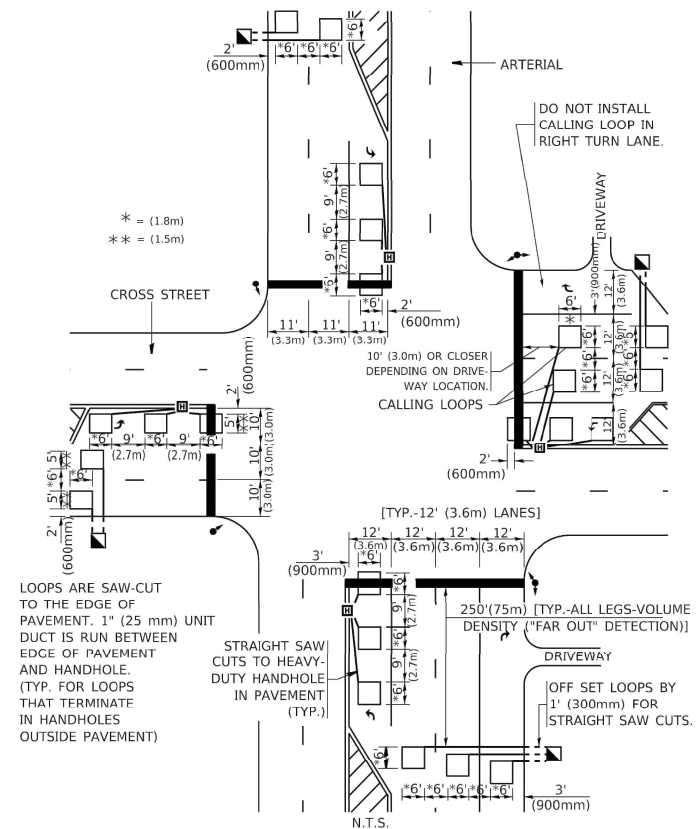
LEFT TURN LANES WITHOUT MEDIANS

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



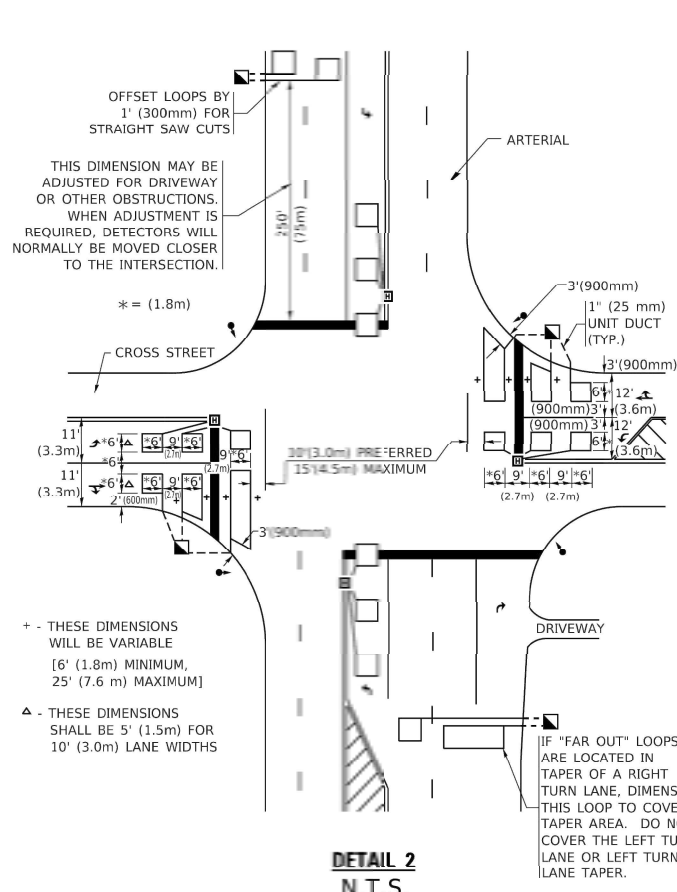
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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.

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 DIMENSIONS 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.

DATE PLOTTED: 10/24/2022 10:16 AM
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 PLOT DATE: None
 PLOT SCALE: None
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USER NAME = footemj	DESIGNED -	REVISED -
DRAWN -	CHECKED - R.K.F.	REVISED -
PLOT SCALE = 50.0000' / in.	DATE -	REVISED -
PLOT DATE = 3/4/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

F.A.U. RTE. 3570	SECTION 22-00347-00-RS	COUNTY DUPAGE	TOTAL SHEETS 33	SHEET NO. 33
TS-07			CONTRACT NO. 61J13	
ILLINOIS FED. AID PROJECT				