

03-08-2024 LETTING ITEM 002

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

FUNCTIONAL CLASSIFICATION
HANKES RD - MINOR COLLECTOR
GALENA BLVD - MINOR ARTERIAL

TRAFFIC DATA
HANKES RD
2018 ADT = 4,350
GALENA BLVD
2018 ADT = 14,600

POSTED SPEED LIMIT
HANKES RD = 30 MPH
GALENA BLVD = 35 MPH

DESIGN SPEED LIMIT
HANKES RD = 30 MPH
GALENA BLVD = 35 MPH

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

**FAU ROUTES 2299 AND 1521 (HANKES RD. AND GALENA BLVD.)
DEERPATH RD. TO GALENA BLVD. AND HANKES RD. TO ORCHARD RD.
ROADWAY RESURFACING
SECTION NO.: 22-00354-00-RS
PROJECT NO.: DV0F(735)
CITY OF AURORA
KANE COUNTY**

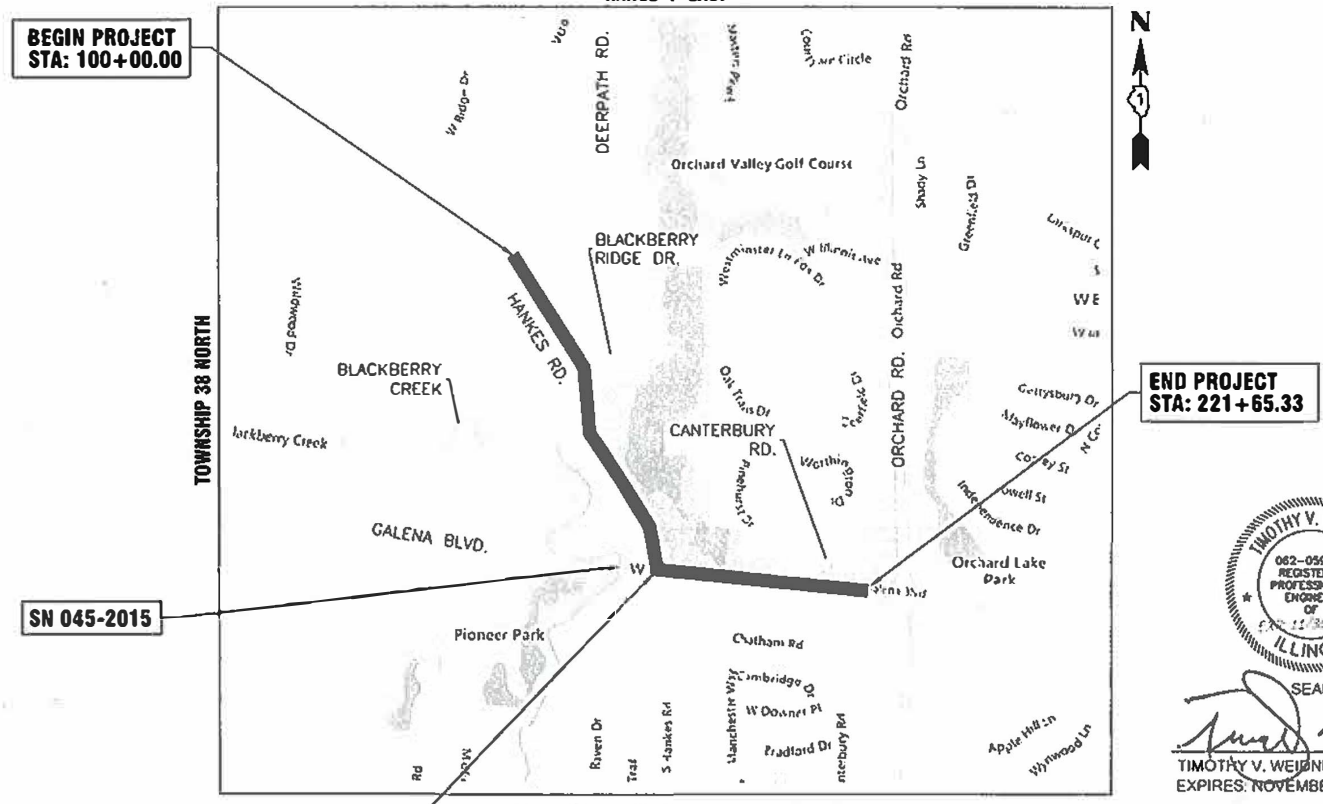
FAU RTE 2299 1521	SECTION 22-00354-00-RS	COUNTY KANE ILLINOIS	TOTAL SHEETS 33	SHEET NO. 1
CONTRACT NO. 61J58				



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

C-91-070-23

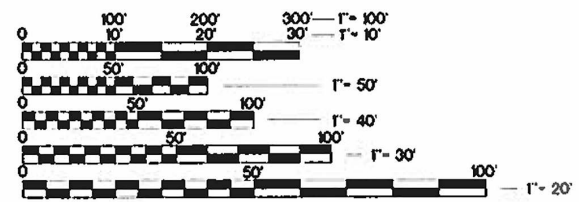
RANGE 7 EAST



STA: 132+23.71 HANKES RD
= STA: 201+36.15 GALENA
BLVD

KANE COUNTY - SUGAR GROVE TOWNSHIP
THIRD PRINCIPAL MERIDIAN

LOCATION MAP
NOT TO SCALE



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: # X000760492

Know what's below.
Call before you dig.

WITH THE FOLLOWING:
COUNTY KANE COUNTY
CITY-TOWNSHIP AURORA-AURORA TOWNSHIP
SEC. & 1/4 SEC. NO. 12.12-38 N. & E.

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

END PROJECT
STA: 221+65.33



SEAL
Timothy V. Weidner
TIMOTHY V. WEIDNER, P.E.
EXPIRES: NOVEMBER 30, 2025

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED November 27, 2023
Timothy V. Weidner
CITY OF AURORA, ENGINEERING COORDINATOR

PASSED 1-2-2024
[Signature]
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW Jan 3, 2024
Jose Rios IR
REGIONAL ENGINEER

PLANS PREPARED BY
THE CITY OF AURORA

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 61J58

GROSS LENGTH OF PROJECT = 5,252.89 FEET (0.995 MILES)
NET LENGTH OF PROJECT = 5,252.89 FEET (0.995 MILES)

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, DETAILS, HIGHWAY STANDARDS AND GENERAL NOTES
3 - 6	SUMMARY OF QUANTITIES
7 - 9	TYPICAL SECTIONS
10 - 16	RESURFACING PLAN
17 - 21	EXISTING SIGNAL PLANS
22	EROSION CONTROL DETAILS
23 - 33	I.D.O.T. DISTRICT 1 DETAILS

ILLINOIS URBAN MANUAL EROSION CONTROL DETAILS

IUM-654SB	TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE
IUM-561C	INLET PROTECTION - PAVED AREAS CURB PROTECTION
IUM-561D	INLET PROTECTION - PAVED AREAS DROP-IN PROTECTION

DISTRICT ONE DETAILS

BD-08	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32	BUTT JOINT AND HMA TAPER DETAILS
TC-10	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-16	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TS-05	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
442201-03	CLASS C AND D PATCHES
604001-05	FRAME AND LIDS TYPE 1
604051-04	FRAME AND LIDS TYPE 11
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5M) TO 24" (600 MM) FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
878001-11	CONCRETE FOUNDATION DETAILS
886001-01	DETECTOR LOOP INSTALLATIONS

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
- 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.
- ALL NITROGEN, PHOSPHOROUS, AND POTASSIUM FERTILIZER NUTRIENTS HAVE BEEN INTENTIONALLY OMITTED FROM THE CONTRACT ON THE SODDING APPLICATION.
- THE CONTRACTOR SHALL CONTACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL COORDINATE WITH IDOT CONTRACT 62T45 (GALENA BLVD AT BLACKBERRY CREEK BRIDGE REPAIR).

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

PAVEMENT ELEVATIONS SHALL NOT BE CHANGED WITHIN THE FLOODPLAIN.

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PLOT DATE = 12/12/2023	DATE -- 08/03/2022	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.
2299 1321	22-00354-00-RS	KANE	33	2
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	QUANTITY	QUANTITY
				ROADWAY 75% FEDERAL 25% LOCAL 0005	ROADWAY 100% STATE 0005
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	28	14	14
25200110	SODDING, SALT TOLERANT	SQ YD	28	14	14
25200200	SUPPLEMENTAL WATERING	UNIT	1.6	0.8	0.8
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2	1	1
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	15579	10064	5515
40600370	LONGITUDINAL JOINT SEALANT	FOOT	10638	6270	4368
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	10	6.0	4.0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	203	167	36
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1270	820	450
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	961	961	
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	1625	710	915
44000161	HOT-MIX ASPHALT SURFACE REMOVAL, 3"	SQ YD	23079	14909	8170
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	140	90	50
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	278	179	99
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	555	358	197
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	417	269	148

t INDICATES SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 01 OF 04 SHEETS STA. TO STA.

FAU RTE. 1299 1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 3
CONTRACT NO. 61J5B				
ILLINOIS FED. AID PROJECT				

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	QUANTITY	
				ROADWAY 75% FEDERAL 25% LOCAL 0005	ROADWAY 100% STATE 0005
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	117	54	63
60260100	INLETS TO BE ADJUSTED	EACH	6	4	2
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	2	1	1
60266600	VALVE BOXES TO BE ADJUSTED	EACH	1	1	
67100100	MOBILIZATION	L SUM	1	1	
t 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	125		125
t 66900530	SOIL DISPOSAL ANALYSIS	EACH	2		2
t 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1		1
t 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1		1
t 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	3		3
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1	
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	8885	7763	1122
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	2962	2588	374
t 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	552	333	219

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CLIENT:
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PLOT DRIVER:
PLOT DATE:

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET NO. 02 OF 04 SHEETS STA. TO STA.

FAU RTE 2293 1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 4
CONTRACT NO. 61J58			ILLINOIS FED. AID PROJECT	

	CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL QUANTITY	QUANTITY	
					ROADWAY 75% FEDERAL 25% LOCAL 0005	ROADWAY 100% STATE 0005
t	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	22594	14526	8068
t	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	2172	1522	650
t	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1211	1035	176
t	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	259	195	64
t	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	552	333	219
t	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	22594	14526	8068
t	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	2172	1522	650
t	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	1211	1035	176
t	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	259	195	64
t	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	96	48	48
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	96	48	48
t	81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	50	50	
t	85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2	1	1
t	87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	78	78	
t	87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	78	78	
t	87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	78	78	

t INDICATES SPECIALTY ITEM

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PROJECT CONTRACT:
CLIENT:
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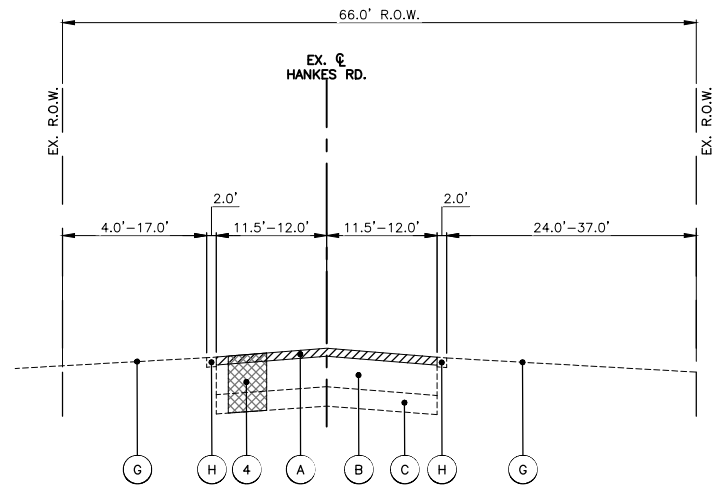
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

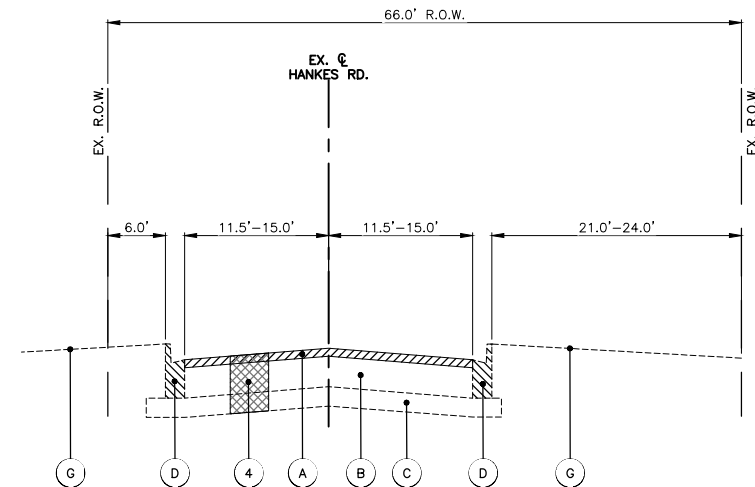
SUMMARY OF QUANTITIES

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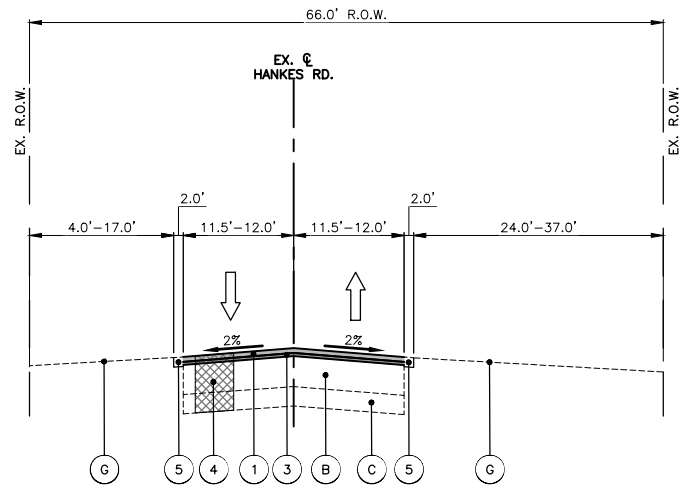
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CONTRACT NO. 61J58			ILLINOIS FED. AID PROJECT	



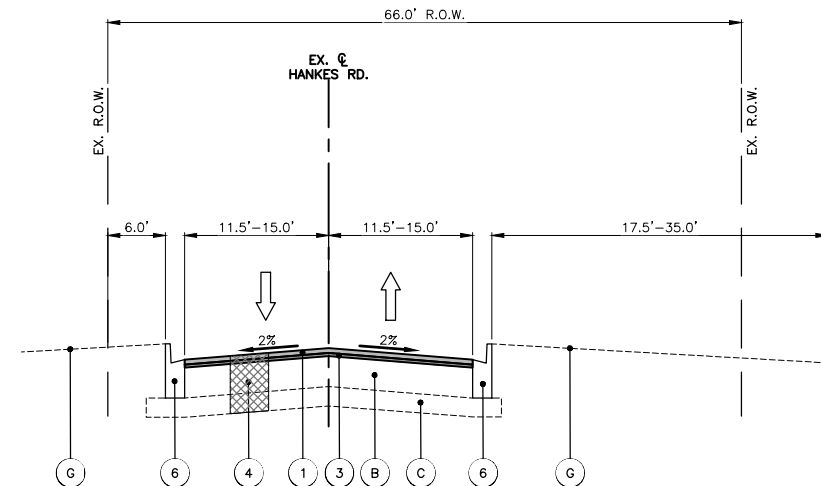
EXISTING TYPICAL SECTION - HANKES RD.
STA: 100+00.0 - STA: 127+75.0



EXISTING TYPICAL SECTION - HANKES RD.
STA: 127+75.0 - STA: 133+00.0



PROPOSED TYPICAL SECTION - HANKES RD.
STA: 100+00.0 - STA: 127+75.0



PROPOSED TYPICAL SECTION - HANKES RD.
STA: 127+75.0 - STA: 133+00.0

EXISTING LEGEND

- A HOT-MIX ASPHALT SURFACE REMOVAL 3.0"
- B EXISTING PAVEMENT
- C AGGREGATE SUBBASE
- D COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24
- E PORTLAND CEMENT CONCRETE SIDEWALK TO REMAIN IN PLACE
- F LANDSCAPED OR PCC MEDIAN
- G EXISTING GROUND
- H AGGREGATE SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

OPERATION	MIXTURE TYPE	AIR VOIDS @ NDES	QMP
PAVEMENT RESURFACING	HANKES RD. - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50	4% @ 50 GYR.	LR1030-2
	GALENA BLVD. - HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	4% @ 70 GYR.	LR1030-2
	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	3.5% @ 50 GYR.	LR1030-2
CLASS D PATCHES	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	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, MIX "D", IL-9.5, N50, 2"
- 2 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- 3 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1"
- 4 CLASS D PATCHES W/SUBBASE GRANULAR MATERIAL, TYPE B, 8" (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)
- 5 AGGREGATE WEDGE SHOULDER, TYPE B
- 6 COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24 (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

NOTES:

- THE PATCHING QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.
- CONTRACTOR SHALL MILL PRIOR TO PATCHING.
- NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE EXISTING R.O.W.
- STATION EQUATION: STA. 132+23.71 HANKES RD = STA. 201+36.15 GALENA BLVD
- STATE ROUTE = GALENA BLVD STA. 198+14 TO STA. 214+00.00

USER NAME = HOPPM	DESIGNED - AN	REVISED -
FILE NAME = Hankes-Typ-Sec	DRAWN - MH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

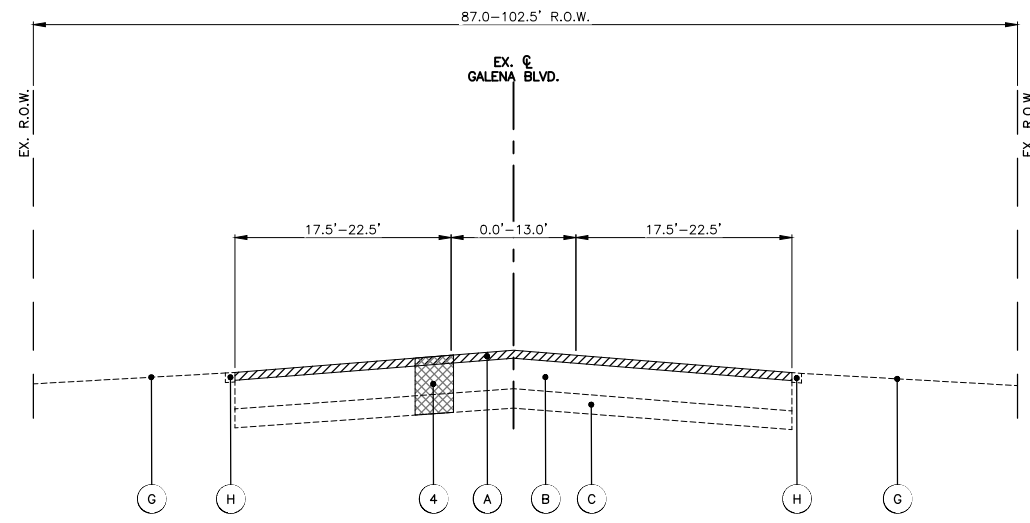
**HANKES ROAD
TYPICAL SECTIONS**

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

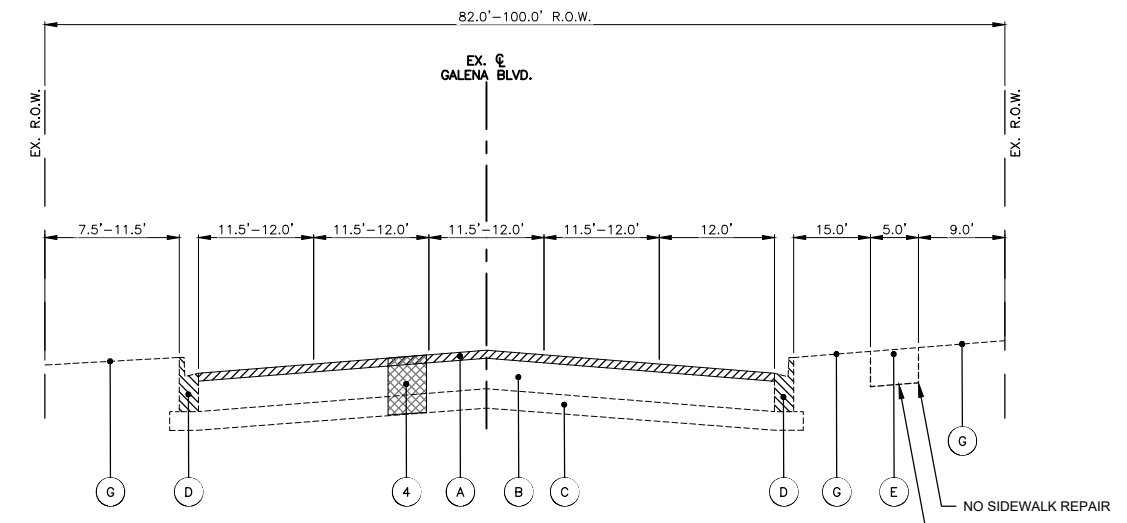
FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	7

CONTRACT NO. 61J58
ILLINOIS FED. AID PROJECT

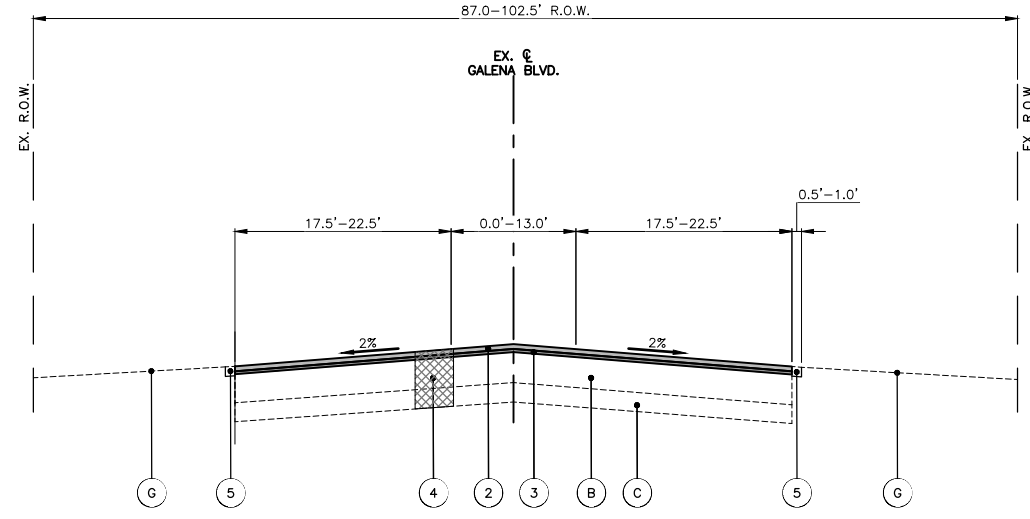
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DATE PLOTTED: Hankes-Typ-Sec
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PLOT DRIVER: ILDOT-Standard.ctb
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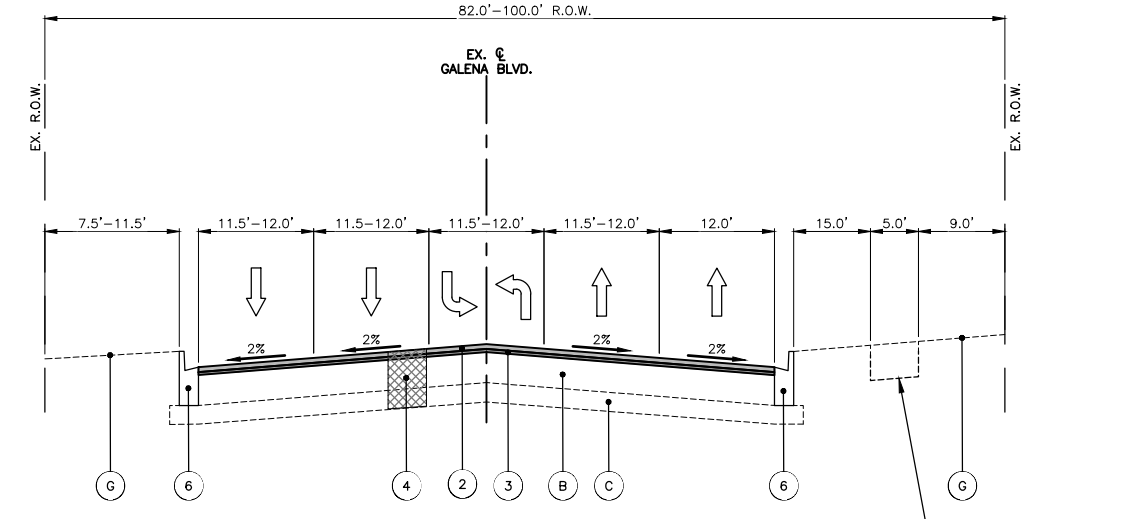
EXISTING TYPICAL SECTION - GALENA BLVD.
STA: 198+14.0 - STA: 213+75.0



EXISTING TYPICAL SECTION - GALENA BLVD.
STA: 213+75.0 - STA: 218+81.5



PROPOSED TYPICAL SECTION - GALENA BLVD.
STA: 198+14.0 - STA: 213+75.0



PROPOSED TYPICAL SECTION - GALENA BLVD.
STA: 213+75.0 - STA: 218+81.5

EXISTING LEGEND

- A HOT-MIX ASPHALT SURFACE REMOVAL 3.0"
- B EXISTING PAVEMENT
- C AGGREGATE SUBBASE
- D COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24
- E PORTLAND CEMENT CONCRETE SIDEWALK TO REMAIN IN PLACE
- F LANDSCAPED OR PCC MEDIAN
- G EXISTING GROUND
- H AGGREGATE SHOULDERS

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- 2 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- 3 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1"
- 4 CLASS D PATCHES W/SUBBASE GRANULAR MATERIAL, TYPE B, B" (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)
- 5 AGGREGATE WEDGE SHOULDER, TYPE B
- 6 COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24 (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

NOTES:

- THE PATCHING QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.
- CONTRACTOR SHALL MILL PRIOR TO PATCHING.
- NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE EXISTING R.O.W.
- STATION EQUATION: STA. 132+23.71 HANKES RD = STA. 201+36.15 GALENA BLVD
- STATE ROUTE = GALENA BLVD STA. 198+14 TO STA. 214+00.00

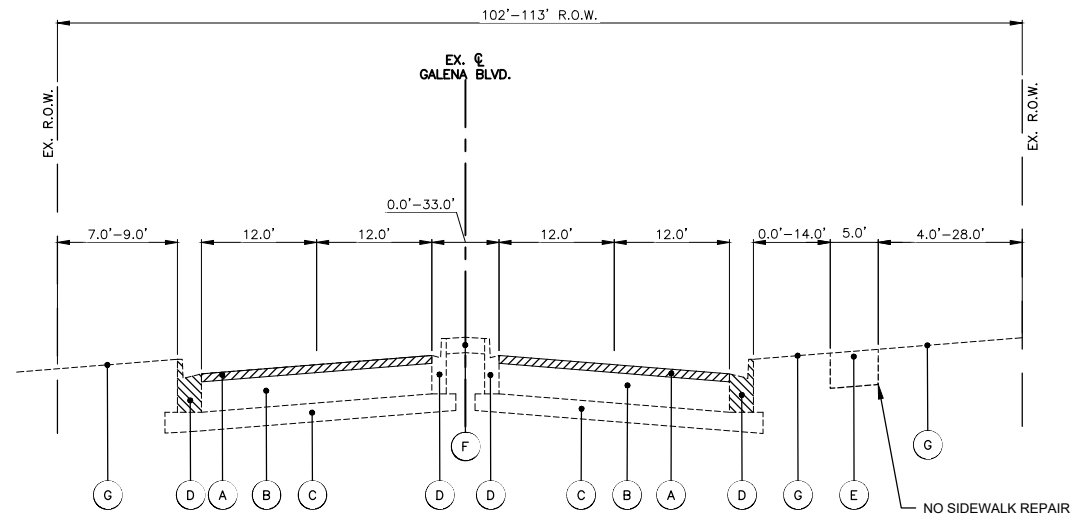
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FILE NAME = Honkes-Typ-Sec	DRAWN - MH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

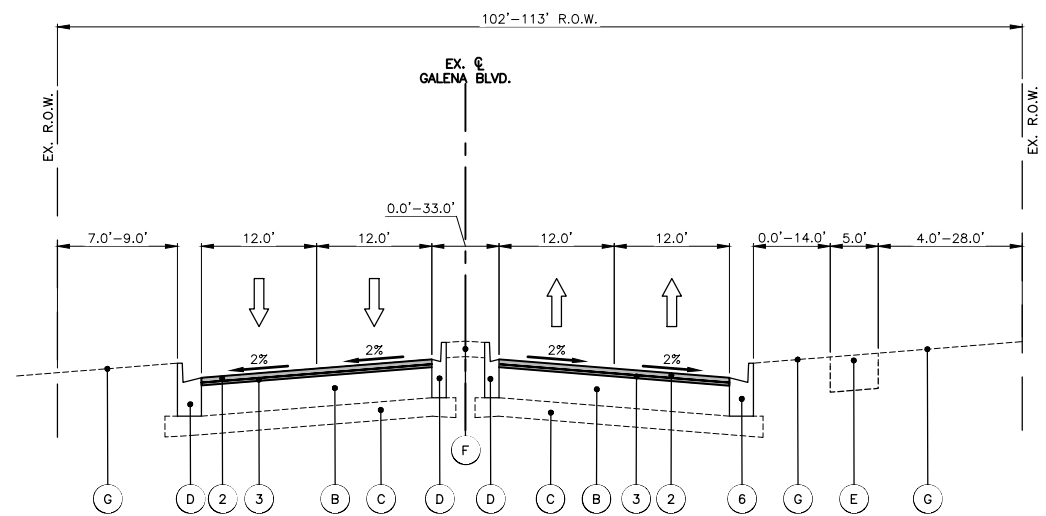
GALENA BLVD TYPICAL SECTIONS	
SCALE: N.T.S.	SHEET NO. 02 OF 03 SHEETS STA. TO STA.

FAU RTE. 2299 1921	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 8
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION - GALENA BLVD.

STA: 218+81.5 - STA: 221+65.3



PROPOSED TYPICAL SECTION - GALENA BLVD.

STA: 218+81.5 - STA: 221+65.3

EXISTING LEGEND

- A HOT-MIX ASPHALT SURFACE REMOVAL 3.0"
- B EXISTING PAVEMENT
- C AGGREGATE SUBBASE
- D COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24
- E PORTLAND CEMENT CONCRETE SIDEWALK TO REMAIN IN PLACE
- F LANDSCAPED OR PCC MEDIAN
- G EXISTING GROUND
- H AGGREGATE SHOULDERS

PROPOSED LEGEND

- 1 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N50, 2"
- 2 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- 3 POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 1"
- 4 CLASS D PATCHES W/SUBBASE GRANULAR MATERIAL, TYPE B, B" (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)
- 5 AGGREGATE WEDGE SHOULDER, TYPE B
- 6 COMBINATION CONCRETE CURB & GUTTER, VARIES FROM TYPE B-6.12 TO B-6.24 (SPOT REMOVAL & REPLACEMENT AS DIRECTED BY THE ENGINEER)

NOTES:

- THE PATCHING QUANTITIES HAVE BEEN ESTIMATED BASED ON FIELD OBSERVATIONS DURING DESIGN. ACTUAL QUANTITIES TO BE DETERMINED DURING CONSTRUCTION BY THE ENGINEER.
- CONTRACTOR SHALL MILL PRIOR TO PATCHING.
- NO PROPOSED WORK WILL TAKE PLACE OUTSIDE OF THE EXISTING R.O.W.
- STATION EQUATION: STA. 132+23.71 HANKES RD = STA. 201+36.15 GALENA BLVD
- STATE ROUTE = GALENA BLVD STA. 198+14 TO STA. 214+00.00

COMPANY NAME: HANKES
 PROJECT CONTACT: HANKES
 DATE PLOTTED: 12/12/2023 11:49 AM
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 PLOT DRIVER: DWG TO PDF.PC3
 PEN TABLE: ILDOT-Standard.ctb

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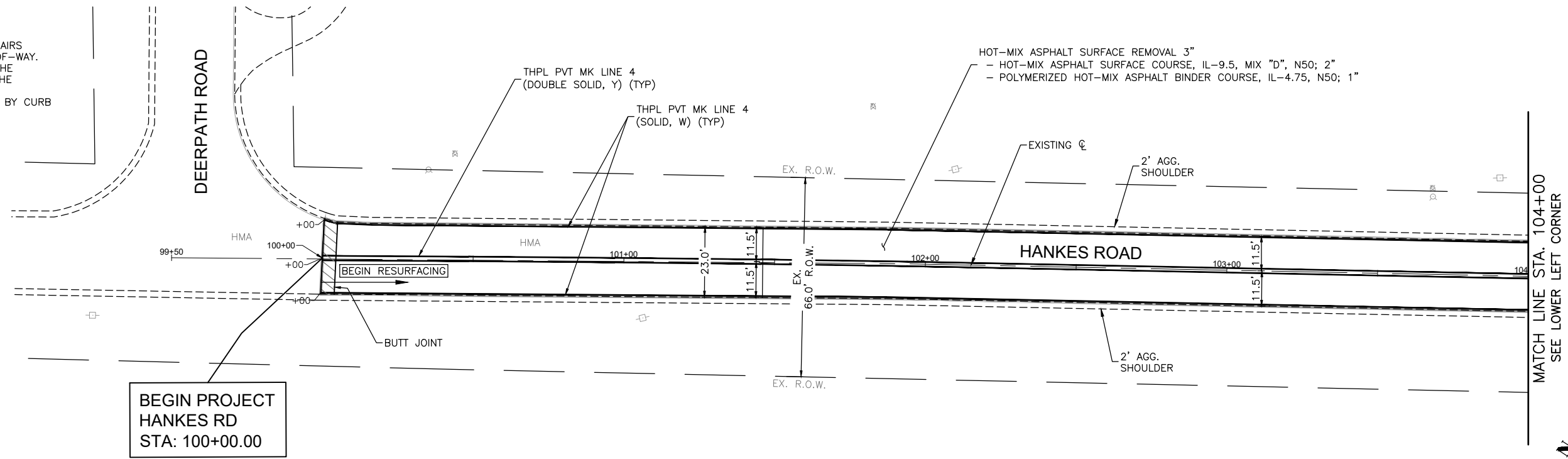
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GALENA BLVD
TYPICAL SECTIONS**

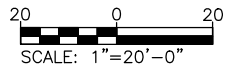
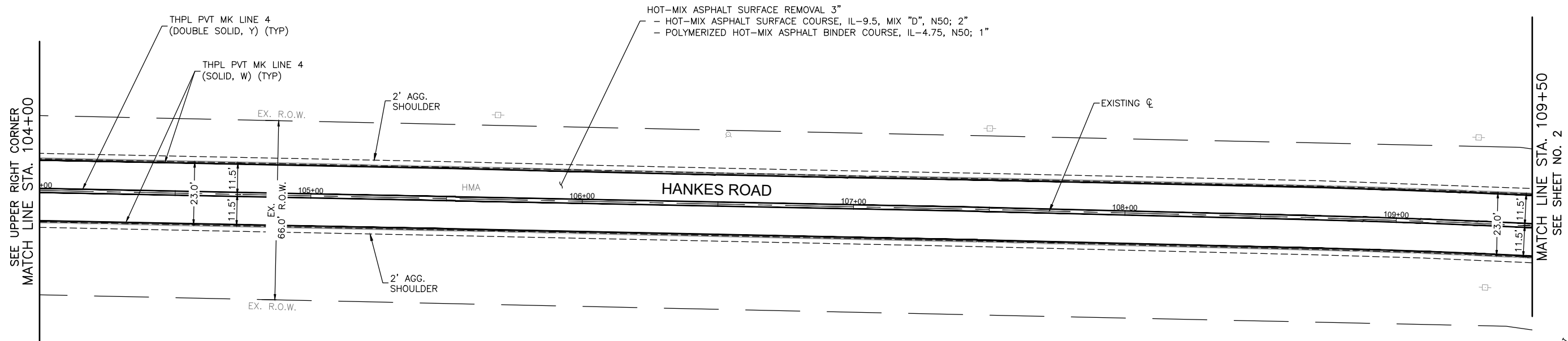
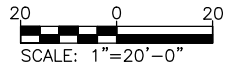
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FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	9
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				

NOTE:
 ANY SOILS GENERATED FROM CURB 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
 HANKES RD
 STA: 100+00.00



COMPANY NAME: ILDOT
 PROJECT CONTACT: ILDOT-Standard.ctb
 DATE PLOTTED: 12/12/2023 11:49 AM
 CLIENT: HANKES-Resurf-Plan
 FILE NAME: HANKES-Resurf-Plan
 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb

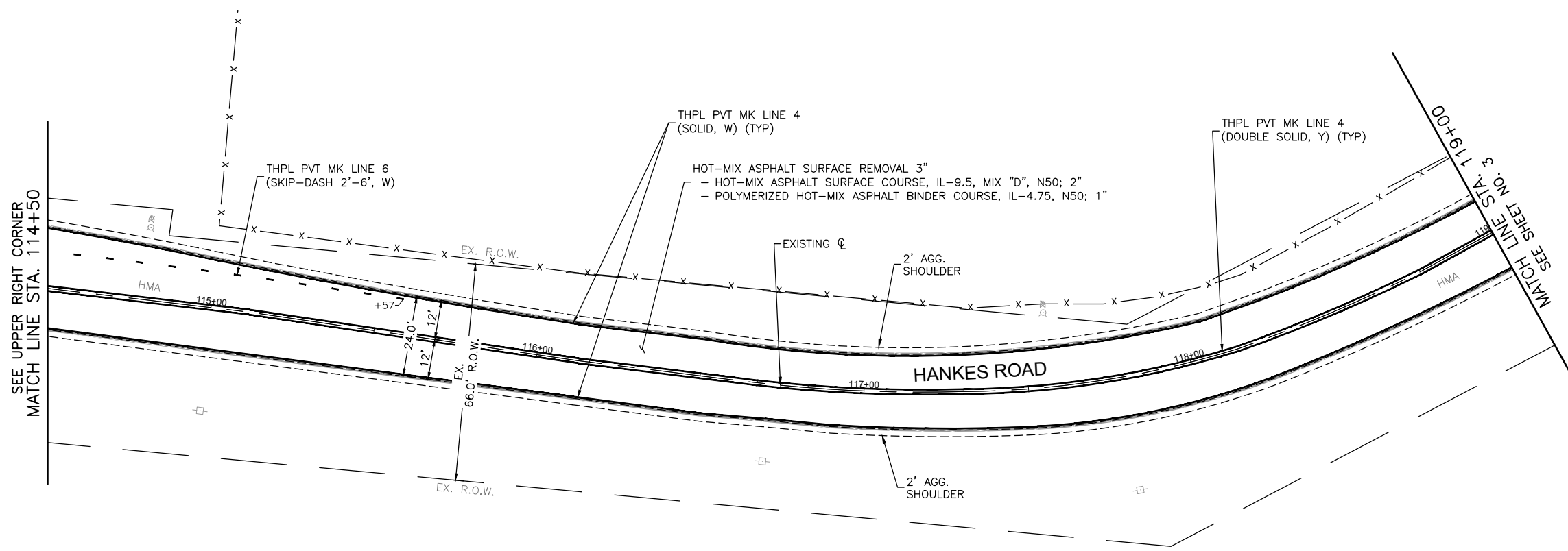
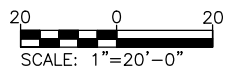
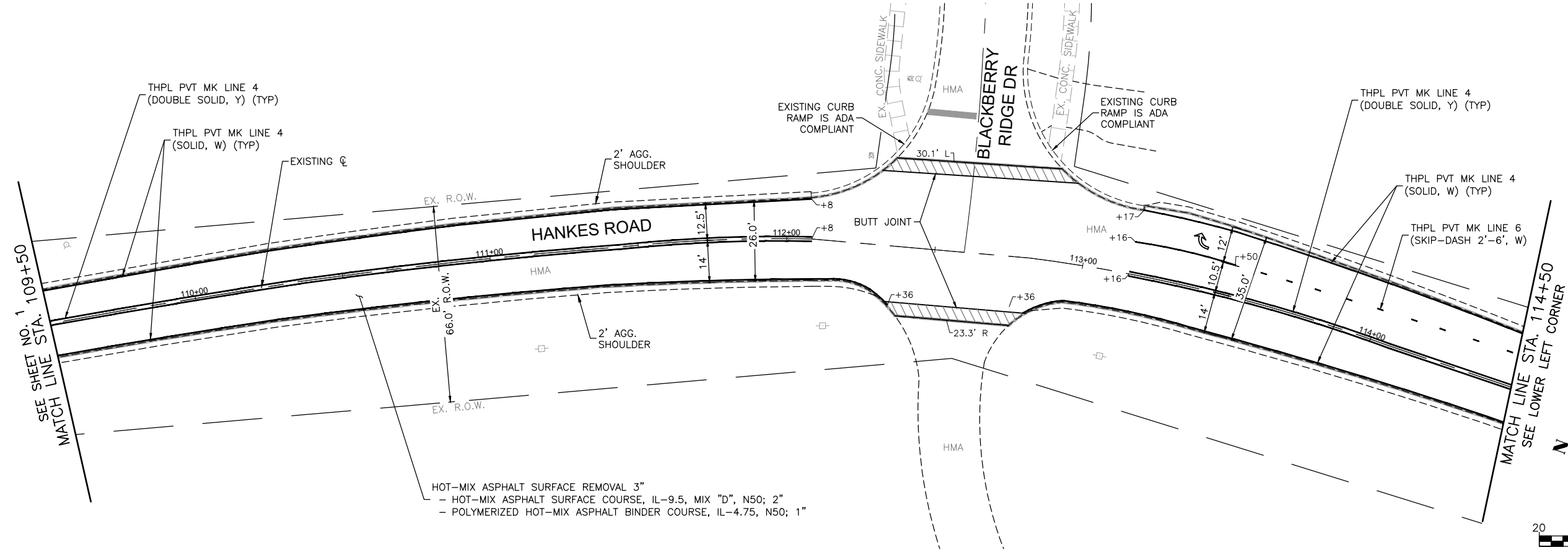
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HANKES ROAD
 RESURFACING AND PAVEMENT MARKING PLAN

SCALE: 1"=20' SHEET NO. 1 OF 7 SHEETS STA. 100+00 TO STA. 109+50

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	10
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



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 CLIENT: HOPPM
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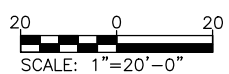
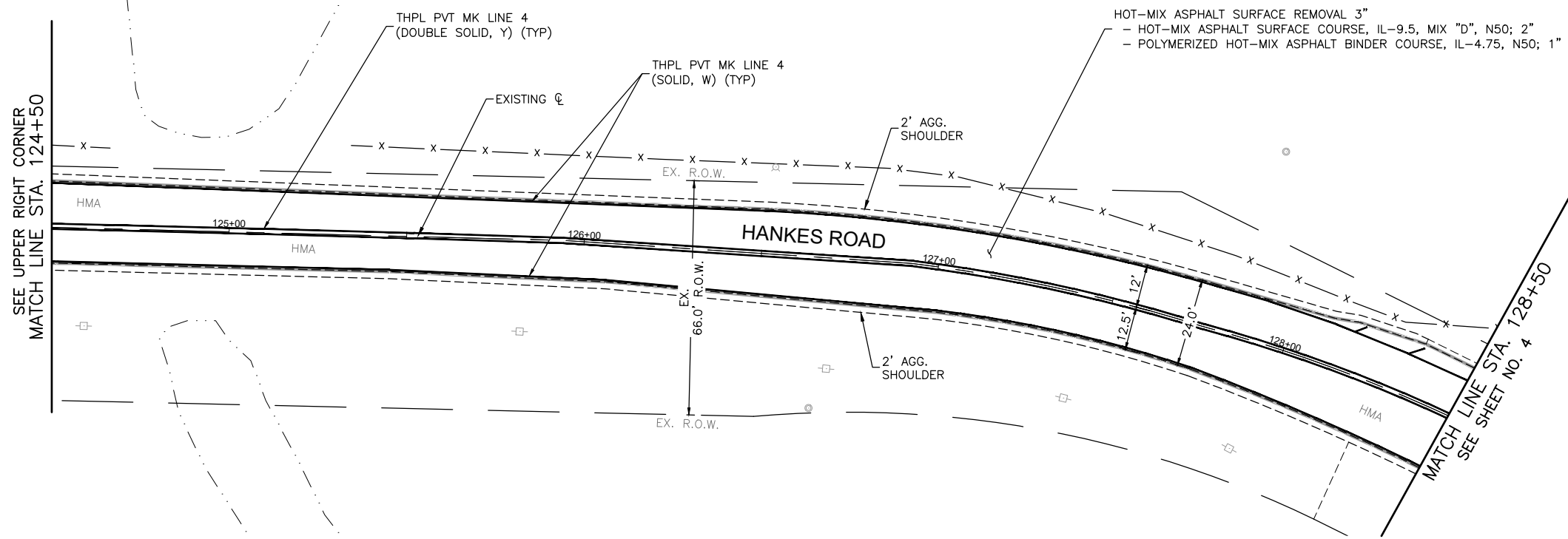
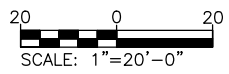
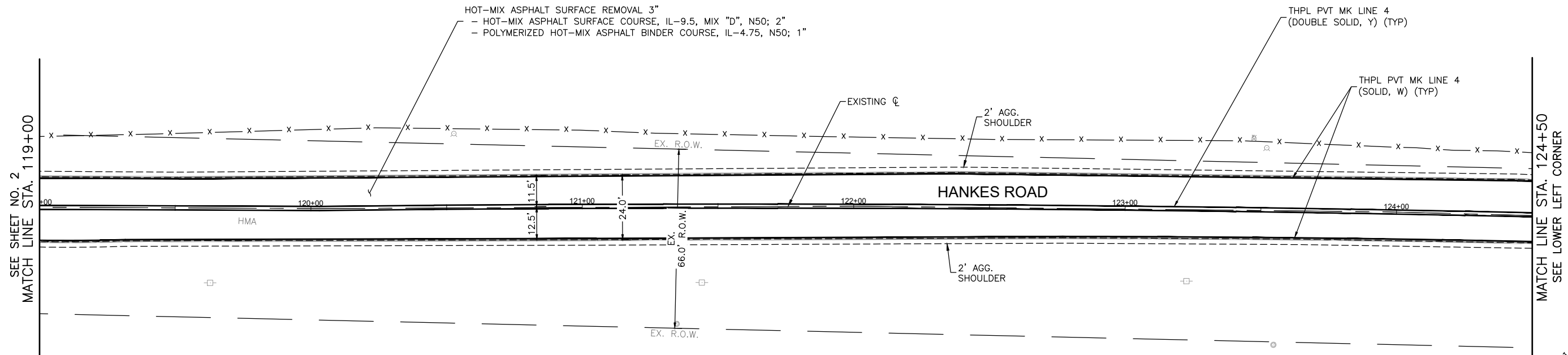
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**HANKES ROAD
 RESURFACING AND PAVEMENT MARKING PLAN**

SCALE: 1"=20' SHEET NO. 2 OF 7 SHEETS STA. 109+50 TO STA. 119+00

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	11
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



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COMPANY NAME: [REDACTED]
 PROJECT CONTACT: [REDACTED]
 CLIENT: [REDACTED]
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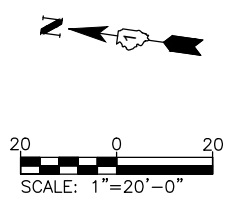
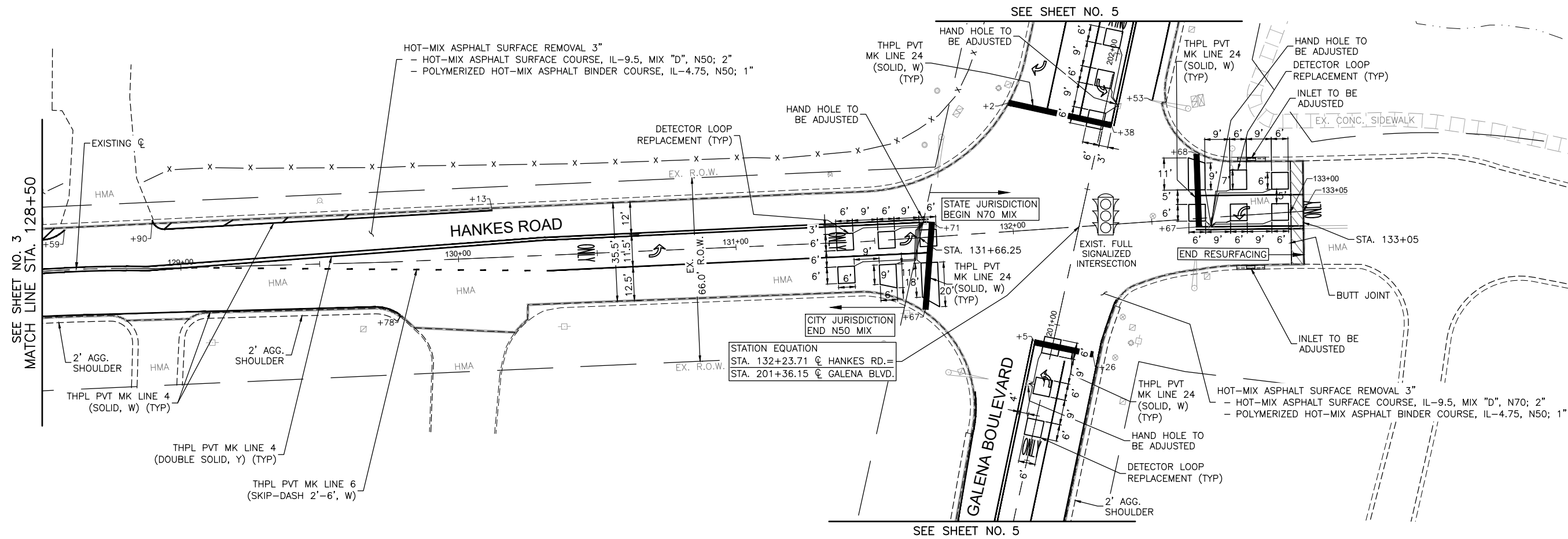
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HANKES ROAD
 RESURFACING AND PAVEMENT MARKING PLAN

SCALE: 1"=20' SHEET NO. 3 OF 7 SHEETS STA. 119+00 TO STA. 128+50

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	12
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



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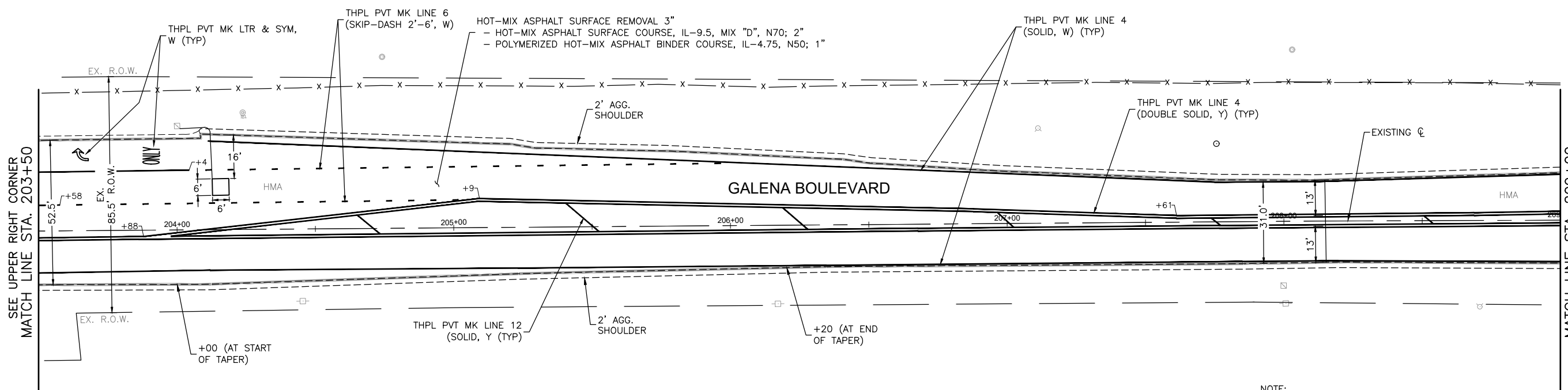
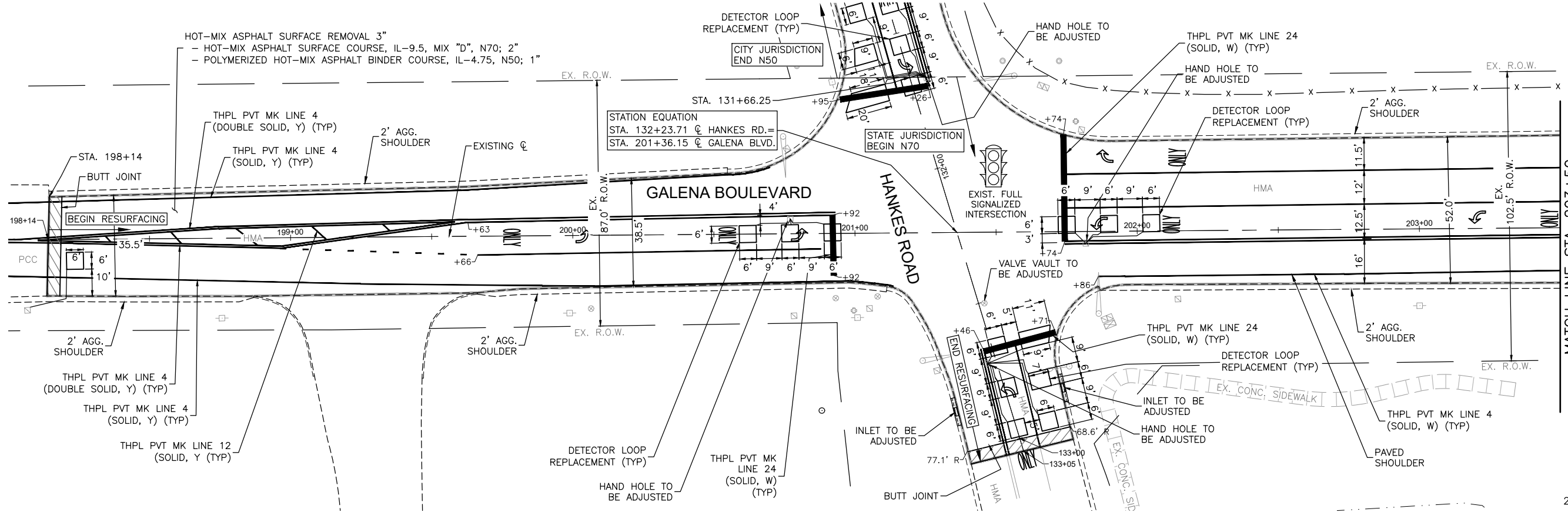
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

HANKES ROAD
RESURFACING AND PAVEMENT MARKING PLAN
 SCALE: 1"=20' SHEET NO. 4 OF 7 SHEETS STA. 128+50 TO STA. 133+00

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1321	22-00354-00-RS	KANE	33	13
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



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COMPANY NAME: HOPPM
 PROJECT CONTACT: HOPPM
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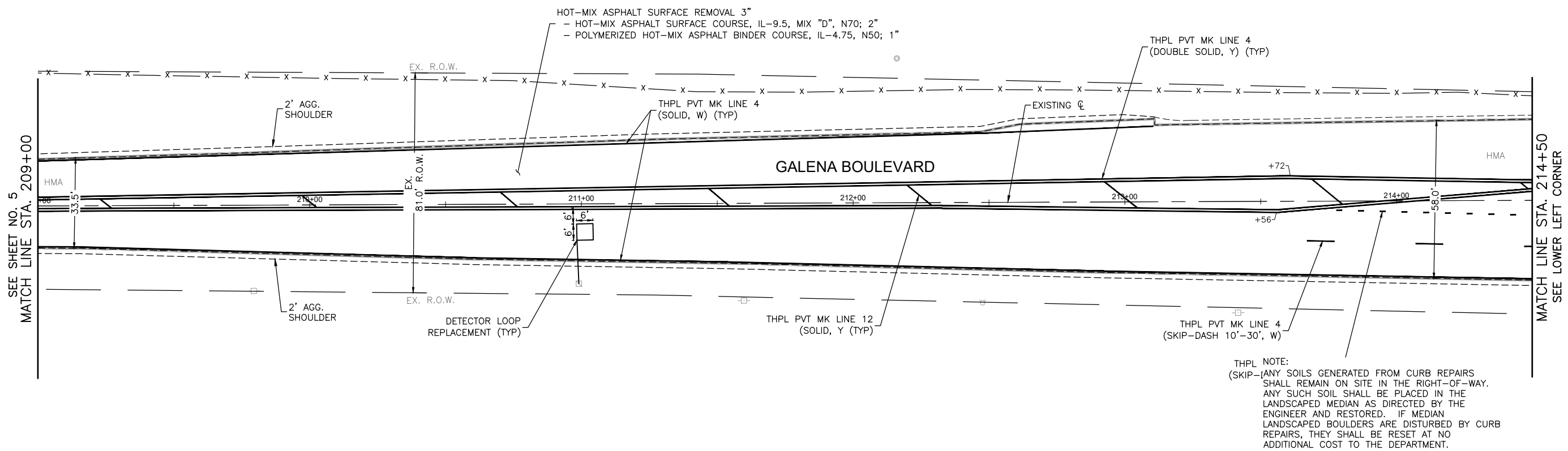
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

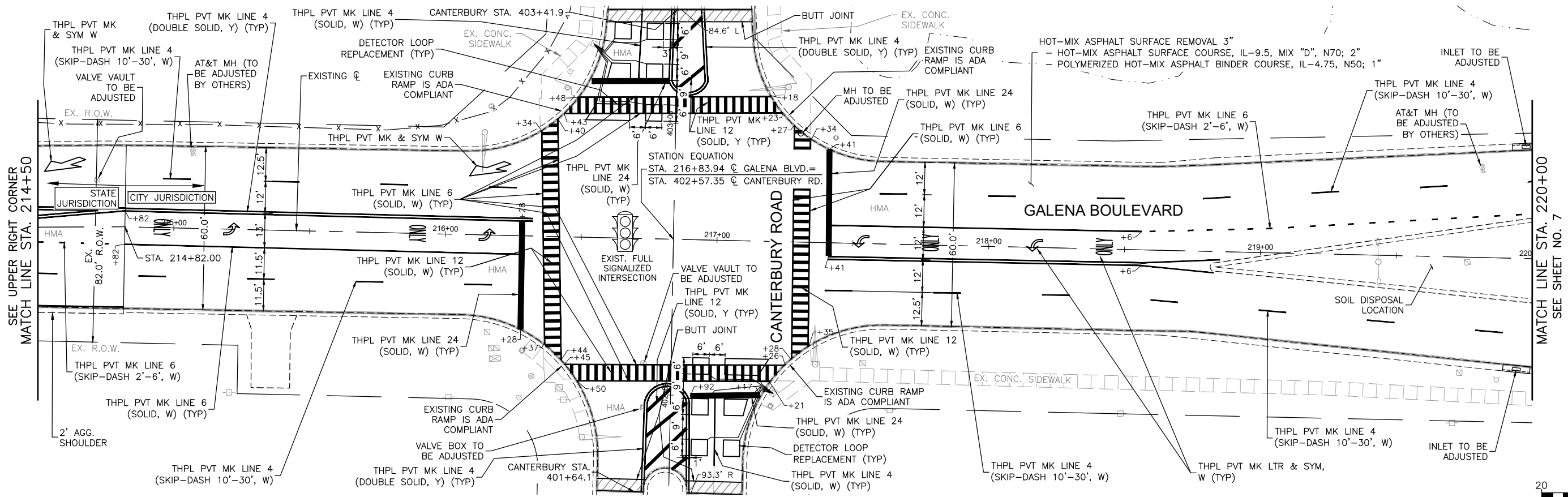
GALENA BLVD
RESURFACING AND PAVEMENT MARKING PLAN

SCALE: 1"=20' SHEET NO. 5 OF 7 SHEETS STA. 198+14 TO STA. 209+00

FAU RTE. 2299 1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 14
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



THPL NOTE:
 (SKIP)-ANY SOILS GENERATED FROM CURB 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.



COMPANY NAME: HANKE
 PROJECT CONTACT: HANKE
 CLIENT: HANKE
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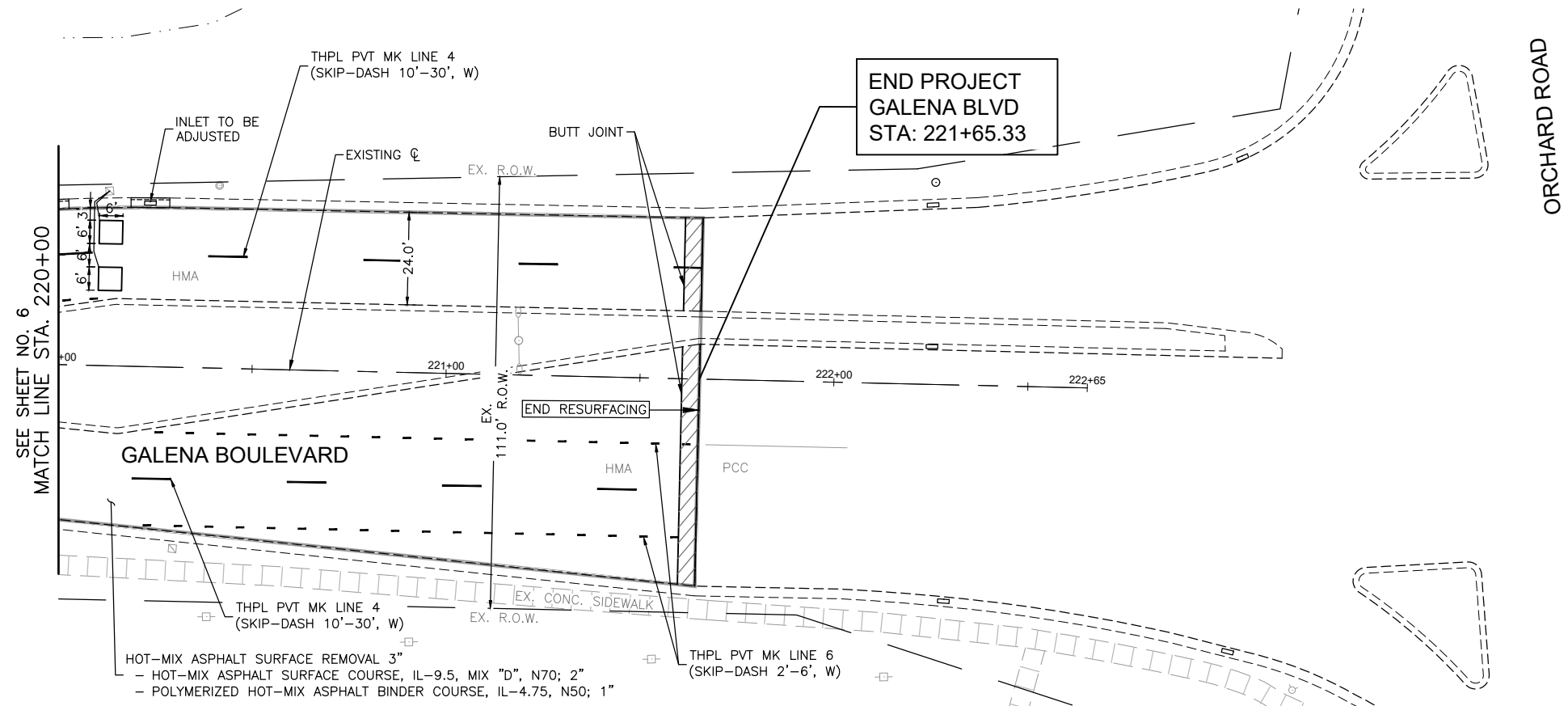
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**GALENA BLVD
 RESURFACING AND PAVEMENT MARKING PLAN**

SCALE: 1"=20' SHEET NO. 6 OF 7 SHEETS STA. 209+00 TO STA. 220+00

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	15
CONTRACT NO. 61J58				
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:
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COMPANY NAME:
 PROJECT CONTACT:
 CLIENT:
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PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GALENA BLVD	
RESURFACING AND PAVEMENT MARKING PLAN	
SCALE: 1"=20'	SHEET NO. 7 OF 7 SHEETS STA. 220+00 TO STA. 221+65

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	16
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				

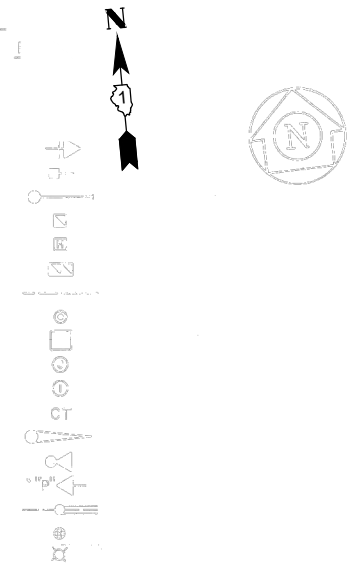
PLANS FOR REPLACEMENT OF DETECTOR LOOPS, PEDESTRIAN SIGNAL HEADS, AND PEDESTRIAN PUSH-BUTTONS

ALL PEDESTRIAN PUSHBUTTON DETECTORS SHALL HAVE A DIRECTIONAL ARROW IMPRINTED ON THE BOX BELOW THE PUSHBUTTON.

TRAFFIC SIGNAL LEGEND

- LEGEND**
- PEDESTRIAN SIGNAL POST, 10 FT CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER
 - ACCESSIBLE PEDESTRIAN SIGNAL
 - PEDESTRIAN SIGNAL HEAD

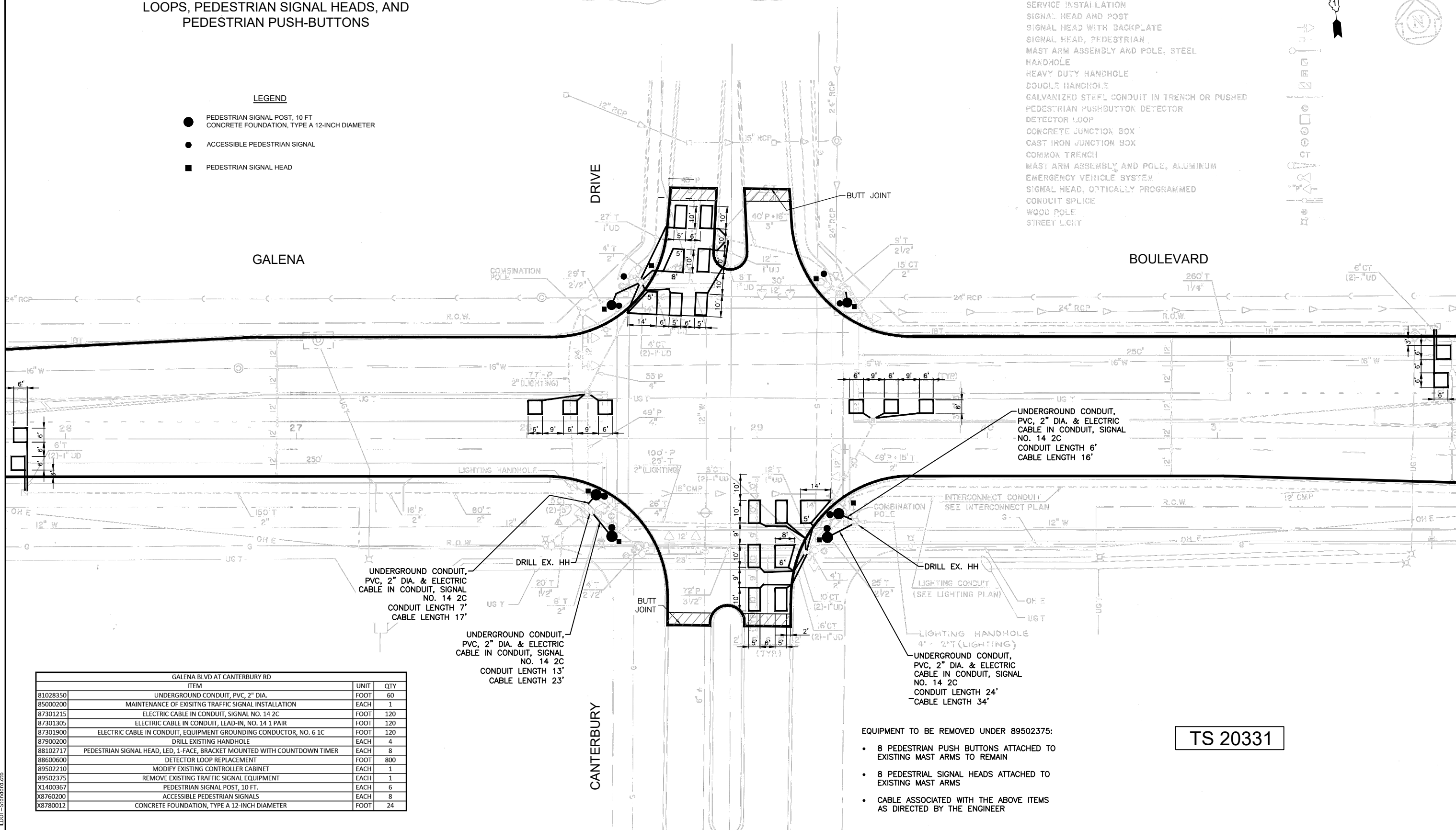
- CONTROLLER
- SERVICE INSTALLATION
- SIGNAL HEAD AND POST
- SIGNAL HEAD WITH BACKPLATE
- SIGNAL HEAD, PEDESTRIAN
- MAST ARM ASSEMBLY AND POLE, STEEL
- HANDHOLE
- HEAVY DUTY HANDHOLE
- DOUBLE HANDHOLE
- GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED
- PEDESTRIAN PUSHBUTTON DETECTOR
- DETECTOR LOOP
- CONCRETE JUNCTION BOX
- CAST IRON JUNCTION BOX
- COMMON TRENCH
- MAST ARM ASSEMBLY AND POLE, ALUMINUM
- EMERGENCY VEHICLE SYSTEM
- SIGNAL HEAD, OPTICALLY PROGRAMMED
- CONDUIT SPLICE
- WOOD POLE
- STREET LIGHT



GALENA

BOULEVARD

CANTERBURY



UNDERGROUND CONDUIT, PVC, 2" DIA. & ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
CONDUIT LENGTH 7'
CABLE LENGTH 17'

UNDERGROUND CONDUIT, PVC, 2" DIA. & ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
CONDUIT LENGTH 13'
CABLE LENGTH 23'

UNDERGROUND CONDUIT, PVC, 2" DIA. & ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
CONDUIT LENGTH 6'
CABLE LENGTH 16'

UNDERGROUND CONDUIT, PVC, 2" DIA. & ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C
CONDUIT LENGTH 24'
CABLE LENGTH 34'

EQUIPMENT TO BE REMOVED UNDER 89502375:

- 8 PEDESTRIAN PUSH BUTTONS ATTACHED TO EXISTING MAST ARMS TO REMAIN
- 8 PEDESTRIAN SIGNAL HEADS ATTACHED TO EXISTING MAST ARMS
- CABLE ASSOCIATED WITH THE ABOVE ITEMS AS DIRECTED BY THE ENGINEER

TS 20331

GALENA BLVD AT CANTERBURY RD			
ITEM	UNIT	QTY	
81028350	UNDERGROUND CONDUIT, PVC, 2" DIA.	FOOT	60
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1
87301215	ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C	FOOT	120
87301305	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	120
87301900	ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C	FOOT	120
87900200	DRILL EXISTING HANDHOLE	EACH	4
88102717	PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED WITH COUNTDOWN TIMER	EACH	8
88600600	DETECTOR LOOP REPLACEMENT	FOOT	800
89502210	MODIFY EXISTING CONTROLLER CABINET	EACH	1
89502375	REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT	EACH	1
X1400367	PEDESTRIAN SIGNAL POST, 10 FT.	EACH	6
X8760200	ACCESSIBLE PEDESTRIAN SIGNALS	EACH	8
X8780012	CONCRETE FOUNDATION, TYPE A 12-INCH DIAMETER	FOOT	24

USER NAME = HOPPM	DESIGNED - AN	REVISED -
FILE NAME = Harkes-Exist-Signals	DRAWN - MH	REVISED -
PLOT SCALE = 1"=20'	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC SIGNAL PLAN
GALENA BLVD AND CANTERBURY RD

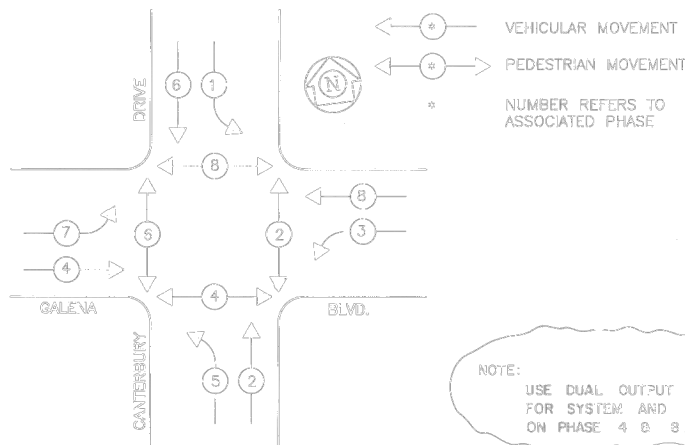
SCALE: 1"=20' SHEET NO. 01 OF 05 SHEETS STA. TO STA.

FAU RTE. 2299 1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 17
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				

COMPANY NAME: HARKES-EXIST-SIGNALS
PROJECT CONTACT: HARKES-EXIST-SIGNALS
DATE PLOTTED: 12/12/2023 11:50 AM
CLIENT: HARKES-EXIST-SIGNALS
FILE NAME: Harkes-Exist-Signals
PLOT DRIVER: DWG TO PDF.pc3
PEN TABLE: ILDOT-Standard.ctb

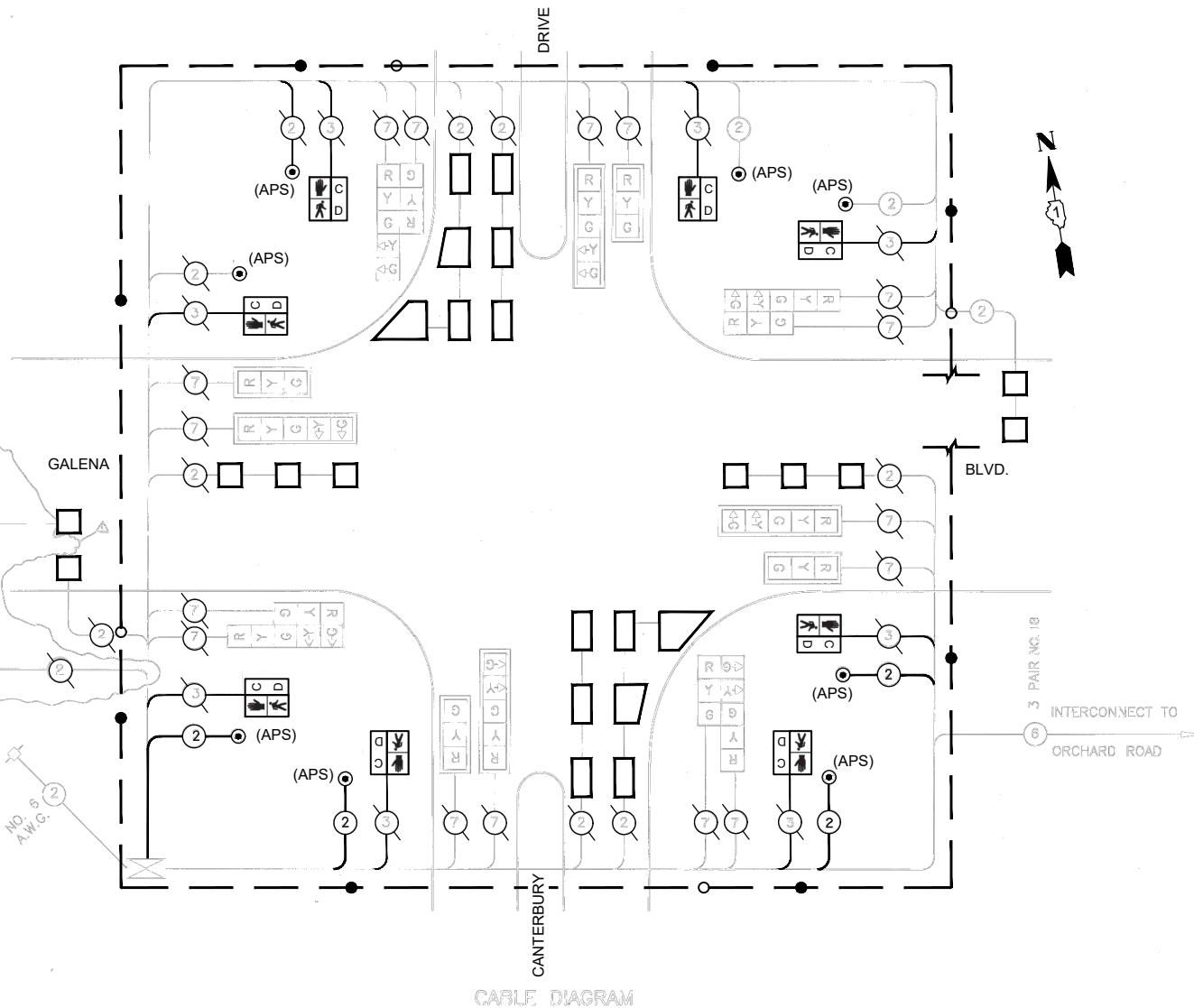
CONTROLLER SEQUENCE IV

REFERRING TO STANDARD 2393-1, THE VEHICULAR AND PEDESTRIAN PHASE USED ARE DESIGNATED BELOW.



EXISTING PHASE DESIGNATION DIAGRAM

NOTE:
USE DUAL OUTPUT LOOP AMPLIFIERS FOR SYSTEM AND PHASE DETECTION ON PHASE 4 & 8.



CABLE DIAGRAM

CABLE PLAN LEGEND :

- G 8" TRAFFIC SIGNAL SECTION
- R 12" TRAFFIC SIGNAL SECTION
- W 12" PEDESTRIAN SIGNAL SECTION
- CONTROLLER CABINET
- SERVICE INSTALLATION
- VEHICLE DETECTOR, INDUCTION LOOP
- PUSHBUTTON DETECTOR
- 2 DENOTES NUMBER OF CONDUCTORS (NEW)
ALL LOOP DETECTOR CABLE TO BE SHIELDED.
ALL CABLE NO.14 EXCEPT AS INDICATED.
- 2 INDICATES EXISTING CABLE
- SIGNAL FACE WITH BACKPLATE
"P" INDICATES OPTICAL PROGRAMMING
- R EXISTING SIGNAL SECTION
- MAGNETIC DETECTOR
- OPTICAL DETECTOR

NOTE:
ANY APS BUTTONS THAT ARE PLACED WITHIN 10' OF ANOTHER APS BUTTON MUST AUDIBLY NAME THE CROSSING STREET WHEN PRESSED.

IDOT TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS					TOTAL WATTAGE	NOTES
TYPE	NO. LAMPS	X WATTAGE		X % OPERATION		
		INCAND.	LED			
SIGNAL (RED)	16	135	11	0.5	1080	EX TO REMAIN
SIGNAL (YELLOW)	16	135	11	0.25	540	EX TO REMAIN
SIGNAL (GREEN)	16	135	11	0.25	540	EX TO REMAIN
ARROW	16	135	11	0.1	216	EX TO REMAIN
PED SIGNAL	8	90	15	1	120	REPLACED IN THIS CONTRACT
CONTROLLER	1	150	150	1	150	EX TO REMAIN
TOTAL					2646	

ENERGY COSTS BILLED TO: CITY OF AURORA
44 E DOWNER PLACE

ENERGY SUPPLY CONTACT: MARKEIS SAYLES
866-639-3532
COMED

TS 20331

THE TRAFFIC SIGNAL PLAN FOR THIS INTERSECTION INCLUDES HANDHOLES AND CONDUIT FOR THE STREET LIGHTING SYSTEM

WALTER E. DEUCHLER ASSOCIATES, INC.
Consulting Engineers - Aurora, Illinois

REVISIONS: Δ - REVISIONS PER IDOT COMMENTS - 04/30/93-RB

DESIGN	PKG	DRAWN	APPROVED	DATE	BOOK	SCALE	NOTES	CAD DWG.	AURORA/REQ	JOB NO.

CABLE DIAGRAM, PHASE DESIGNATION DIAGRAM
SCHEDULE OF QUANTITIES
GALENA BOULEVARD AT CANTERBURY DRIVE

SHEET
66
OF
14

COMPANY NAME: WALTER E. DEUCHLER ASSOCIATES, INC.
PROJECT CONTACT: HONKES-EXIST-SIGNALS
DATE PLOTTED: 12/12/2023 11:50 AM
FILE NAME: HONKES-EXIST-SIGNALS
PLOT SCALE: N.T.S.
PLOT DATE: 12/12/2023

USER NAME = HOPPM	DESIGNED - AN	REVISED -
FILE NAME = Honkes-Exist-Signals	DRAWN - MH	REVISED -
PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN AND PHASE DESIGNATION DIAGRAM
GALENA BLVD AND CANTERBURY RD

SCALE: N.T.S. SHEET NO. 02 OF 05 SHEETS STA. TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	18

CONTRACT NO. 61J58
ILLINOIS FED. AID PROJECT

TRAFFIC SIGNAL LEGEND

	PROPOSED	EXISTING
CONTROLLER		
SERVICE INSTALLATION		
SIGNAL HEAD		
SIGNAL HEAD WITH BACKPLATE		
SIGNAL HEAD, PEDESTRIAN		
SIGNAL POST		
MAST ARM ASSEMBLY AND POLE, STEEL		
MAST ARM ASSEMBLY AND POLE, STEEL		
CONCRETE HANDHOLE		
HEAVY DUTY HANDHOLE		
DOUBLE HANDHOLE		
E. S. CONDUIT IN TRENCH OR MARKED		
PEDESTRIAN PUSH-BUTTON DETECTOR		
LOOP DETECTOR		
CAST IRON JUNCTION BOX		
CONCRETE TRENCH		
UTILITY DUCT		
INTELLIGENT VEHICLE SYSTEM DETECTOR		
COORDINATION BLAZON		
SIGNAL HEAD OPTICALLY PROGRAMMED		
MICROWAVE VEHICLE SENSOR		
TELEPHONE CONNECTION		

PLANS FOR REPLACEMENT OF DETECTOR LOOPS

NOTES:

THE CONTRACTOR SHALL CONTACT CHRIS BROT, CITY OF AURORA (630) 844-3620, 72 HOURS PRIOR TO ENERGIZING THE SIGNALS.

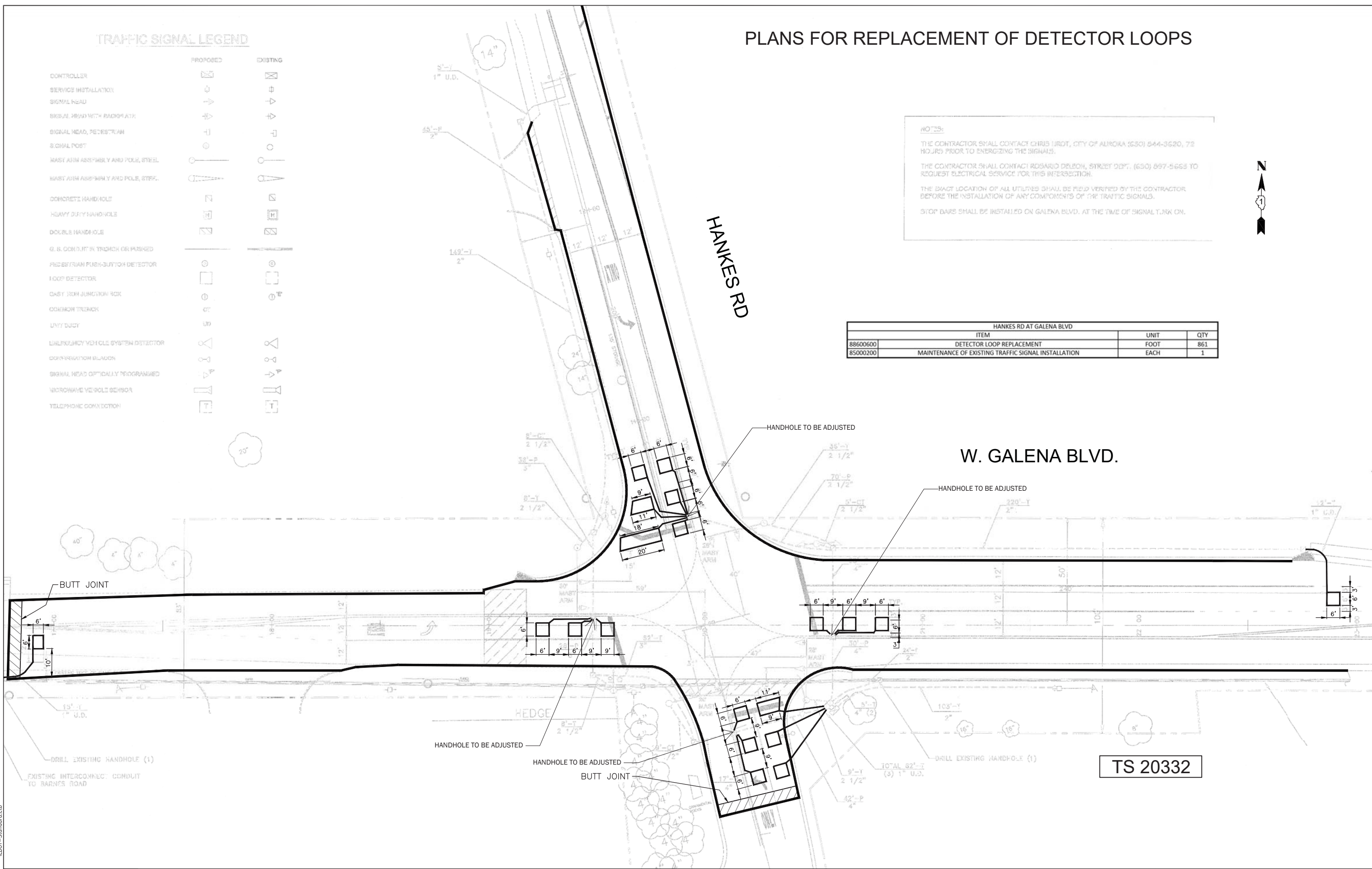
THE CONTRACTOR SHALL CONTACT ROSARIO DELZON, STREET DEPT. (630) 897-5666 TO REQUEST ELECTRICAL SERVICE FOR THIS INTERSECTION.

THE EXACT LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY COMPONENTS OF THE TRAFFIC SIGNALS.

STOP BARS SHALL BE INSTALLED ON GALENA BLVD. AT THE TIME OF SIGNAL TURN ON.



HANKES RD AT GALENA BLVD			
ITEM	UNIT	QTY	
88600600	DETECTOR LOOP REPLACEMENT	FOOT	861
85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1



TS 20332

COMPANY NAME: HOPPM
 PROJECT CONTACT: HOPPM
 DATE PLOTTED: 12/12/2023 11:50 AM
 CLIENT: HANKES-EXIST-SIGNALS
 FILE NAME: HANKES-EXIST-SIGNALS
 PLOT DRIVER: DWG TO PDF.PC3
 PEN TABLE: ILDOT-Standard.ctb

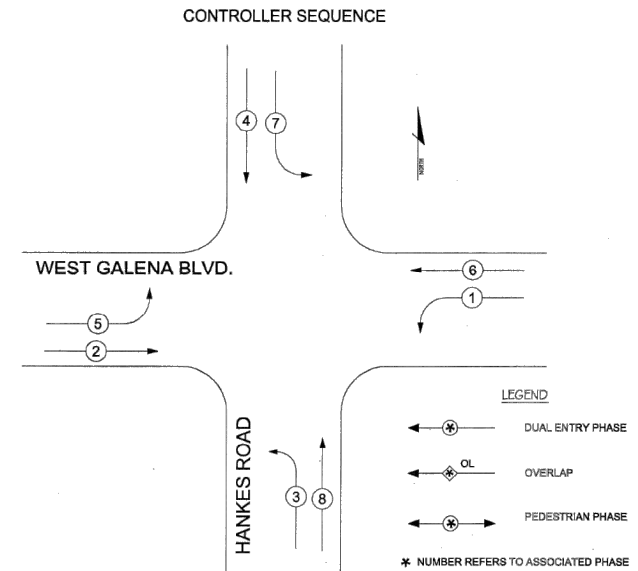
USER NAME = HOPPM	DESIGNED - AN	REVISED -
FILE NAME = HANKES-EXIST-SIGNALS	DRAWN - MH	REVISED -
PLOT SCALE = 1"=20'	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

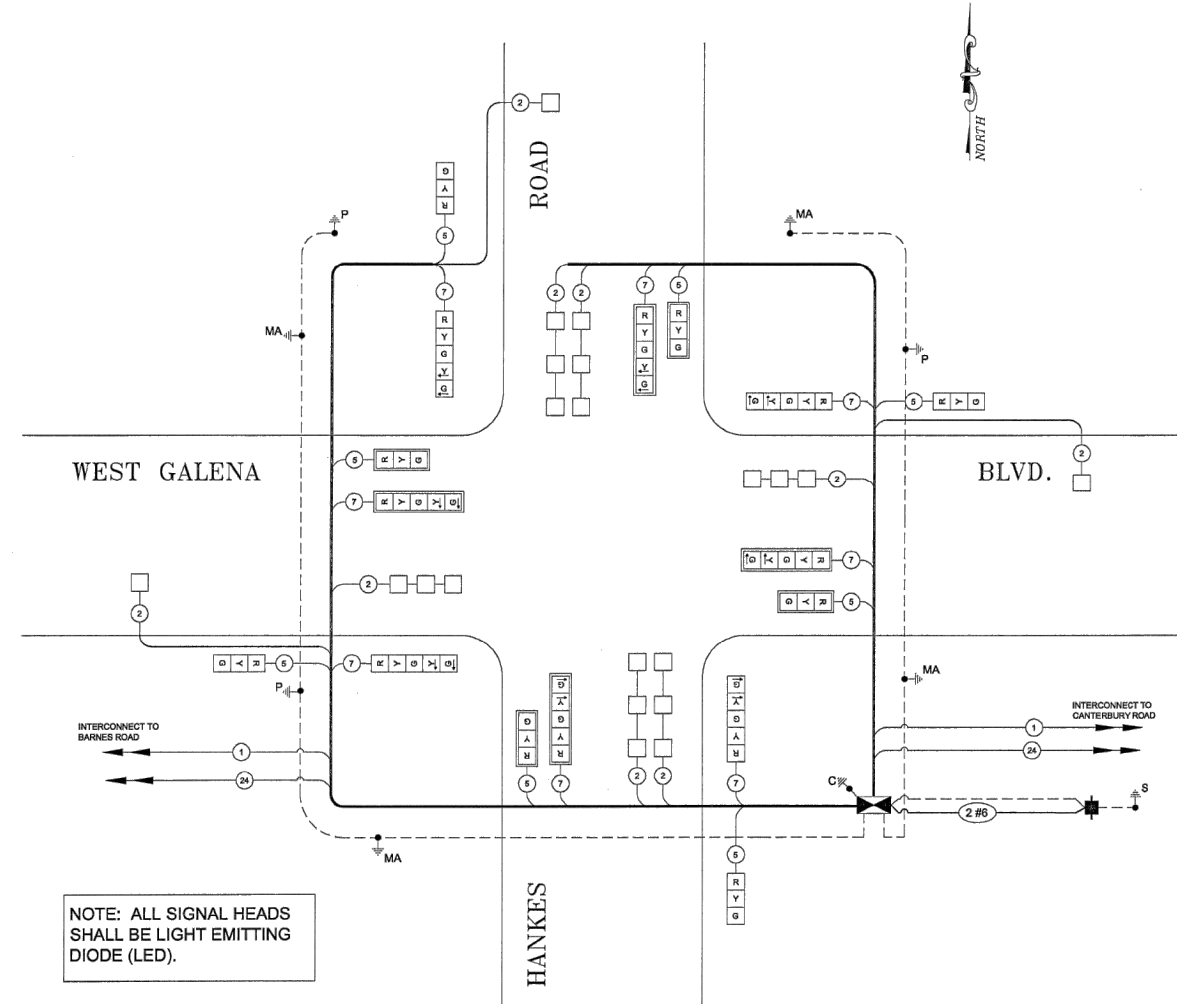
TRAFFIC SIGNAL PLAN GALENA BLVD AND HANKES RD			
SCALE: 1"=20'	SHEET NO. 03 OF 05 SHEETS	STA.	TO STA.

FAU RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1921	22-00354-00-RS	KANE	33	19
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01-00238-00-TL	KANE	20	12
STA.		TO STA.		



PHASE DESIGNATION DIAGRAM
PROTECTED/PERMITTED LEFT TURN PHASING - ALL LEGS



CABLE PLAN

NOTE: ALL SIGNAL HEADS SHALL BE LIGHT EMITTING DIODE (LED).

TS 20332

FOR INFORMATION ONLY

EXISTING		PROPOSED	
	8" (200mm) TRAFFIC SIGNAL SECTION		12" (300mm) TRAFFIC SIGNAL SECTION
	12" (300mm) PEDESTRIAN SIGNAL SECTION		12" (300mm) PEDESTRIAN SIGNAL SECTION
	CONTROLLER CABINET		SERVICE INSTALLATION
	TELEPHONE CONNECTION		MAGNETIC DETECTOR
	EMERGENCY VEHICLE LIGHT DETECTOR		CONFIRMATION BEACON
	PUSHBUTTON DETECTOR		VEHICLE DETECTOR, INDUCTION LOOP
	GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C).		GROUND ROD AT POST (P), OR MAST ARM POLE (MA).
	GROUND ROD AT ELECTRIC SERVICE INSTALLATION		GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)
	FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F		

SCHEDULE OF QUANTITIES

ITEM	UNITS	QUANTITY
SIGNAL HEAD, 2-FACE, 1-3 SECTION, 1-5 SECTION, BRACKET MOUNTED	EACH	4
SIGNAL HEAD, 1-FACE, 3 SECTION, MAST ARM MOUNTED	EACH	4
SIGNAL HEAD, 1-FACE, 5 SECTION, MAST ARM MOUNTED	EACH	4
TRAFFIC SIGNAL BACKPLATE	EACH	8
TRAFFIC SIGNAL POST, WEATHERING STEEL PAINTED BROWN, 16 FT	EACH	3
MAST ARM ASSEMBLY AND POLE, WSPB, 26 FT	EACH	1
MAST ARM ASSEMBLY AND POLE, WSPB, 28 FT	EACH	2
MAST ARM ASSEMBLY AND POLE, WSPB, 30 FT	EACH	1
FULL-ACTUATED CONTROLLER & TYPE V CABINET, SPECIAL	EACH	1
MASTER CONTROLLER	EACH	1
INDUCTION LOOP DETECTOR AMPLIFIER	EACH	9
DETECTOR LOOP, TYPE 1	FOOT	728
CONDUIT IN TRENCH, GALVANIZED STEEL, 2" DIAMETER	FOOT	472
CONDUIT IN TRENCH, GALVANIZED STEEL, 2-1/2" DIAMETER	FOOT	93
CONDUIT IN TRENCH, GALVANIZED STEEL, 3" DIAMETER	FOOT	62
CONDUIT IN TRENCH, GALVANIZED STEEL, 4" DIAMETER	FOOT	10
CONDUIT PUSHED, GALVANIZED STEEL, 2" DIAMETER	FOOT	45
CONDUIT PUSHED, GALVANIZED STEEL, 2-1/2" DIAMETER	FOOT	70
CONDUIT PUSHED, GALVANIZED STEEL, 3" DIAMETER	FOOT	64
CONDUIT PUSHED, GALVANIZED STEEL, 4" DIAMETER	FOOT	127
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C	FOOT	252
ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C	FOOT	1,409
ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR	FOOT	1,871
ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6, 2C	FOOT	120
SERVICE INSTALLATION, TYPE C	EACH	1
CONCRETE FOUNDATION, TYPE A	FOOT	12
CONCRETE FOUNDATION, TYPE D	FOOT	4
CONCRETE FOUNDATION, TYPE E, 30" DIAMETER	FOOT	60
DRILL EXISTING HANDHOLE	EACH	2
HANDHOLE	EACH	6
HEAVY DUTY HANDHOLE	EACH	4
DOUBLE HANDHOLE	EACH	1
TRENCH AND BACKFILL	FOOT	380
SIGN PANEL - TYPE 1	SQ FT	32

TYPE	NO. LAMPS	X WATTAGE INCAND.	X WATTAGE LED	% OPERATION	TOTAL WATTAGE
SIGNAL (RED)	16	135	17	0.50	138
SIGNAL (YELLOW)	16	135	25	0.25	100
SIGNAL (GREEN)	16	135	15	0.25	60
ARROW	20	135	12	0.10	24
PED. SIGNAL		80	25	1.00	
CONTROLLER	1	100	100	1.00	100
ILLUM. SIGN		84		0.05	
FLASHER				0.50	
TOTAL =					420

FOUNDATION (DEPTH) (FT.)	CABLE SLACK (FT.)	VERTICAL (FT.)
TYPE A - POST	4	5.5
TYPE B - CONTROLLER	4	5.5
TYPE C - MAST ARM POLE	10	13
TYPE D - MAST ARM POLE	20	29 + L - 2.2
TYPE E - MAST ARM POLE	30	39
TYPE F - MAST ARM POLE	40	49
TYPE G - MAST ARM POLE	50	59
TYPE H - MAST ARM POLE	60	69
TYPE I - MAST ARM POLE	70	79
TYPE J - MAST ARM POLE	80	89
TYPE K - MAST ARM POLE	90	99
TYPE L - MAST ARM POLE	100	109
TYPE M - MAST ARM POLE	110	119
TYPE N - MAST ARM POLE	120	129
TYPE O - MAST ARM POLE	130	139
TYPE P - MAST ARM POLE	140	149
TYPE Q - MAST ARM POLE	150	159
TYPE R - MAST ARM POLE	160	169
TYPE S - MAST ARM POLE	170	179
TYPE T - MAST ARM POLE	180	189
TYPE U - MAST ARM POLE	190	199
TYPE V - MAST ARM POLE	200	209
TYPE W - MAST ARM POLE	210	219
TYPE X - MAST ARM POLE	220	229
TYPE Y - MAST ARM POLE	230	239
TYPE Z - MAST ARM POLE	240	249
TYPE AA - MAST ARM POLE	250	259
TYPE AB - MAST ARM POLE	260	269
TYPE AC - MAST ARM POLE	270	279
TYPE AD - MAST ARM POLE	280	289
TYPE AE - MAST ARM POLE	290	299
TYPE AF - MAST ARM POLE	300	309
TYPE AG - MAST ARM POLE	310	319
TYPE AH - MAST ARM POLE	320	329
TYPE AI - MAST ARM POLE	330	339
TYPE AJ - MAST ARM POLE	340	349
TYPE AK - MAST ARM POLE	350	359
TYPE AL - MAST ARM POLE	360	369
TYPE AM - MAST ARM POLE	370	379
TYPE AN - MAST ARM POLE	380	389
TYPE AO - MAST ARM POLE	390	399
TYPE AP - MAST ARM POLE	400	409
TYPE AQ - MAST ARM POLE	410	419
TYPE AR - MAST ARM POLE	420	429
TYPE AS - MAST ARM POLE	430	439
TYPE AT - MAST ARM POLE	440	449
TYPE AU - MAST ARM POLE	450	459
TYPE AV - MAST ARM POLE	460	469
TYPE AW - MAST ARM POLE	470	479
TYPE AX - MAST ARM POLE	480	489
TYPE AY - MAST ARM POLE	490	499
TYPE AZ - MAST ARM POLE	500	509
TYPE BA - MAST ARM POLE	510	519
TYPE BB - MAST ARM POLE	520	529
TYPE BC - MAST ARM POLE	530	539
TYPE BD - MAST ARM POLE	540	549
TYPE BE - MAST ARM POLE	550	559
TYPE BF - MAST ARM POLE	560	569
TYPE BG - MAST ARM POLE	570	579
TYPE BH - MAST ARM POLE	580	589
TYPE BI - MAST ARM POLE	590	599
TYPE BJ - MAST ARM POLE	600	609
TYPE BK - MAST ARM POLE	610	619
TYPE BL - MAST ARM POLE	620	629
TYPE BM - MAST ARM POLE	630	639
TYPE BN - MAST ARM POLE	640	649
TYPE BO - MAST ARM POLE	650	659
TYPE BP - MAST ARM POLE	660	669
TYPE BQ - MAST ARM POLE	670	679
TYPE BR - MAST ARM POLE	680	689
TYPE BS - MAST ARM POLE	690	699
TYPE BT - MAST ARM POLE	700	709
TYPE BU - MAST ARM POLE	710	719
TYPE BV - MAST ARM POLE	720	729
TYPE BU - MAST ARM POLE	730	739
TYPE BV - MAST ARM POLE	740	749
TYPE BU - MAST ARM POLE	750	759
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TYPE BU - MAST ARM POLE	770	779
TYPE BV - MAST ARM POLE	780	789
TYPE BU - MAST ARM POLE	790	799
TYPE BV - MAST ARM POLE	800	809
TYPE BU - MAST ARM POLE	810	819
TYPE BV - MAST ARM POLE	820	829
TYPE BU - MAST ARM POLE	830	839
TYPE BV - MAST ARM POLE	840	849
TYPE BU - MAST ARM POLE	850	859
TYPE BV - MAST ARM POLE	860	869
TYPE BU - MAST ARM POLE	870	879
TYPE BV - MAST ARM POLE	880	889
TYPE BU - MAST ARM POLE	890	899
TYPE BV - MAST ARM POLE	900	909
TYPE BU - MAST ARM POLE	910	919
TYPE BV - MAST ARM POLE	920	929
TYPE BU - MAST ARM POLE	930	939
TYPE BV - MAST ARM POLE	940	949
TYPE BU - MAST ARM POLE	950	959
TYPE BV - MAST ARM POLE	960	969
TYPE BU - MAST ARM POLE	970	979
TYPE BV - MAST ARM POLE	980	989
TYPE BU - MAST ARM POLE	990	999
TYPE BV - MAST ARM POLE	1000	1009

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE EPAC300" TO MATCH EXISTING ADJACENT SYSTEM.

H					
G					
F					
E					
D					
C					
B					
A					
BY	DATE	CITY OF AURORA, ILLINOIS			TOTAL SHEET
REVISIONS		ENGINEERING DEPARTMENT			SHEET NUMBER

COMPANY NAME: HONKES-EXIST-SIGNALS
PROJECT CONTACT: HONKES-EXIST-SIGNALS
DATE PLOTTED: 12/12/2023 11:50 AM
FILE NAME: Honkes-Exist-Signals
PLOT DRIVER: DWG To PDF.pc3
PEN TABLE: ILDOT-Standard.ctb

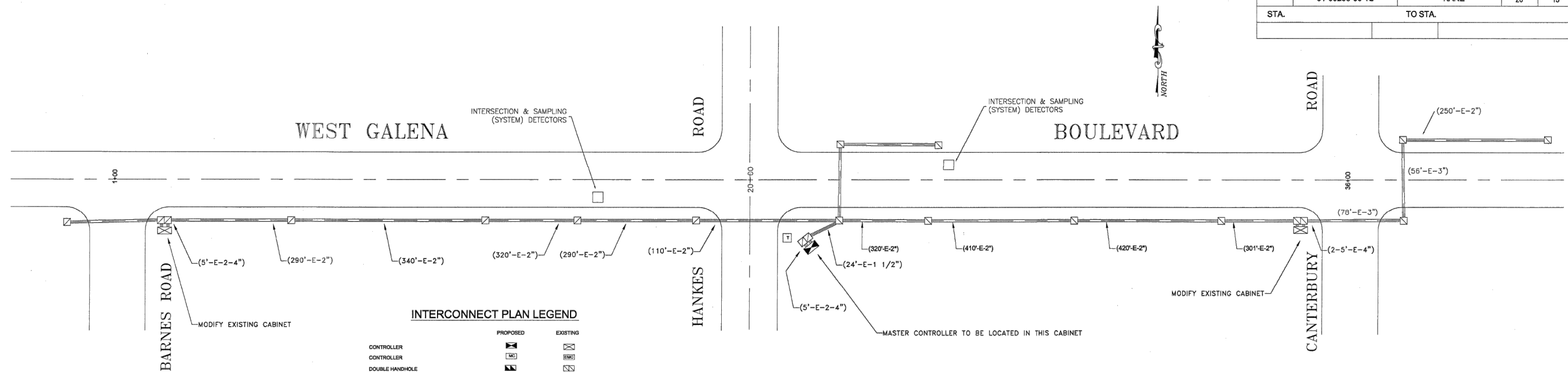
USER NAME = HOPPM	DESIGNED = AN	REVISED =
FILE NAME = Honkes-Exist-Signals	DRAWN = MH	REVISED =
PLOT SCALE = N.T.S.	CHECKED = TW	REVISED =
PLOT DATE = 12/12/2023	DATE = 08/03/2022	REVISED =

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING SIGNAL PLANS
FOR INFORMATION ONLY

SCALE: N.T.S.	SHEET NO. 04 OF 05 SHEETS	STA. TO STA.	FAU RTE. 2299 1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 20
CONTRACT NO. 61J58							ILLINOIS FED. AID PROJECT

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	01-00238-00-TL	KANE	20	13
STA.	TO STA.			



NOTE: THE CONTRACTOR SHALL REMOVE THE EXISTING COPPER INTERCONNECT CABLE FROM THE EXISTING CONDUIT AND THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

INTERCONNECT PLAN LEGEND

	PROPOSED	EXISTING
CONTROLLER	[Symbol]	[Symbol]
CONTROLLER	[Symbol]	[Symbol]
DOUBLE HANDHOLE	[Symbol]	[Symbol]
CONCRETE HANDHOLE	[Symbol]	[Symbol]
HEAVY DUTY HANDHOLE	[Symbol]	[Symbol]
G.S. CONDUIT IN TRENCH OR PUSHED	[Symbol]	[Symbol]
INTERSECTION AND SAMPLING (SYSTEM) DETECTOR LOOP	[Symbol]	[Symbol]
TELEPHONE	[Symbol]	[Symbol]
COMMON TRENCH	CT	
UNIT DUCT	UD	

INTERSECTION SCHEMATIC LEGEND

[Symbol]	INTERSECTION CONTROLLER CABINET	[Symbol]	TELEPHONE CONNECTION
[Symbol]	EXISTING INTERSECTION CONTROLLER	[Symbol]	PROPOSED TRACER CABLE NO. 10 1/C
[Symbol]	PROPOSED MASTER CONTROLLER	[Symbol]	EXISTING INTERSECTION LOOP DETECTORS AND PROPOSED SAMPLING (SYSTEM) DETECTORS
[Symbol]	EXISTING MASTER CONTROLLER	[Symbol]	EXISTING TELEPHONE CONNECTION
[Symbol]	MASTER MASTER CONTROLLER	[Symbol]	EXISTING TRACER CABLE 1/C (AS SPECIFIED)
[Symbol]	PROPOSED INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]	EXISTING SAMPLING (SYSTEM) DETECTORS
[Symbol]	EXISTING INTERSECTION & SAMPLING (SYSTEM) DETECTORS	[Symbol]	PROPOSED SAMPLING (SYSTEM) DETECTORS
[Symbol]	INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE	[Symbol]	EXISTING SAMPLING (SYSTEM) DETECTORS PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTORSS
[Symbol]	INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED		
[Symbol]	LOOP DETECTOR CABLE - 2/C TWISTED SHIELDED		
[Symbol]	EXISTING INTERCONNECT CABLE - NO. 62.5/125 12F FIBER OPTIC CABLE		
[Symbol]	EXISTING INTERCONNECT CABLE - NO.18 3 PAIR TWISTED, SHIELDED		
[Symbol]	EXISTING LOOP DETECTOR CABLE - 2/C TWISTED SHIELDED		

INTERCONNECT SCHEDULE OF QUANTITIES		
ITEM	UNITS	QUANTITY
FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 MM12F SM12F	FOOT	3,584
ELECTRIC CABLE IN CONDUIT NO. 14 1/C	FOOT	3,564
MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	2
MODIFY EXISTING CABINET	EACH	2
RE-OPTIMIZE TRAFFIC SIGNAL SYSTEM	L. SUM	1

FOR INFORMATION ONLY

THE TRAFFIC SIGNAL CONTROL EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE EPAC300" TO MATCH EXISTING ADJACENT SYSTEM.

WEST GALENA BLVD. # HANKES ROAD IMPROVEMENTS			
NO SCALE	DRAWN BY: CL	DESIGNED BY: CL	H:
DATE: 3/02	CHECKED BY: CL	APPROVED BY: PJH	V:
INTERCONNECT # SCHEMATIC PLAN			
BY:	DATE:	CITY OF AURORA, ILLINOIS	TOTAL SHEET 20 SHEET NUMBER 13
ENGINEERING DEPARTMENT			

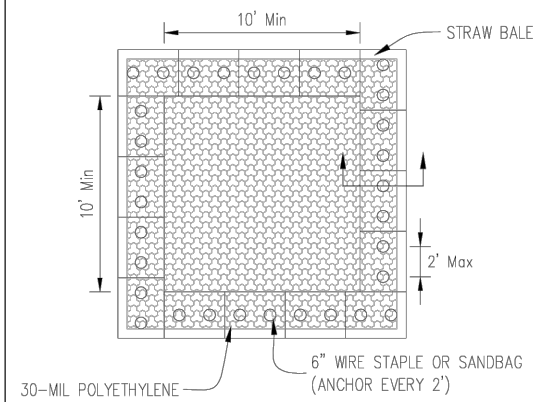
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 PROJECT CONTACT: HOPPM
 CLIENT: HOPPM
 DATE PLOTTED: 12/12/2023 11:50 AM
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 PLOT DRIVER: DWG To PDF.pc3
 PEN TABLE: ILDOT-Standard.ctb

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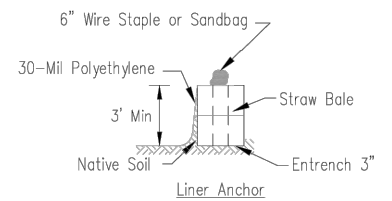
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING SIGNAL PLANS
 FOR INFORMATION ONLY**

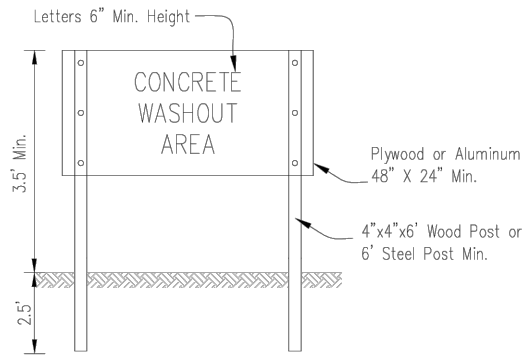
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ILLINOIS FED. AID PROJECT							CONTRACT NO. 61J58



PLAN VIEW



STRAW BALE ANCHOR SECTIONS

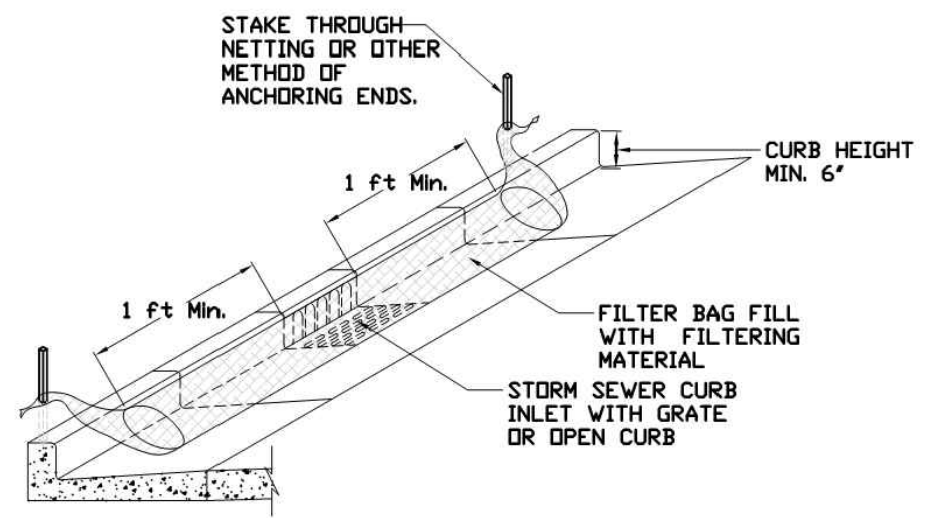


SIGN DETAIL

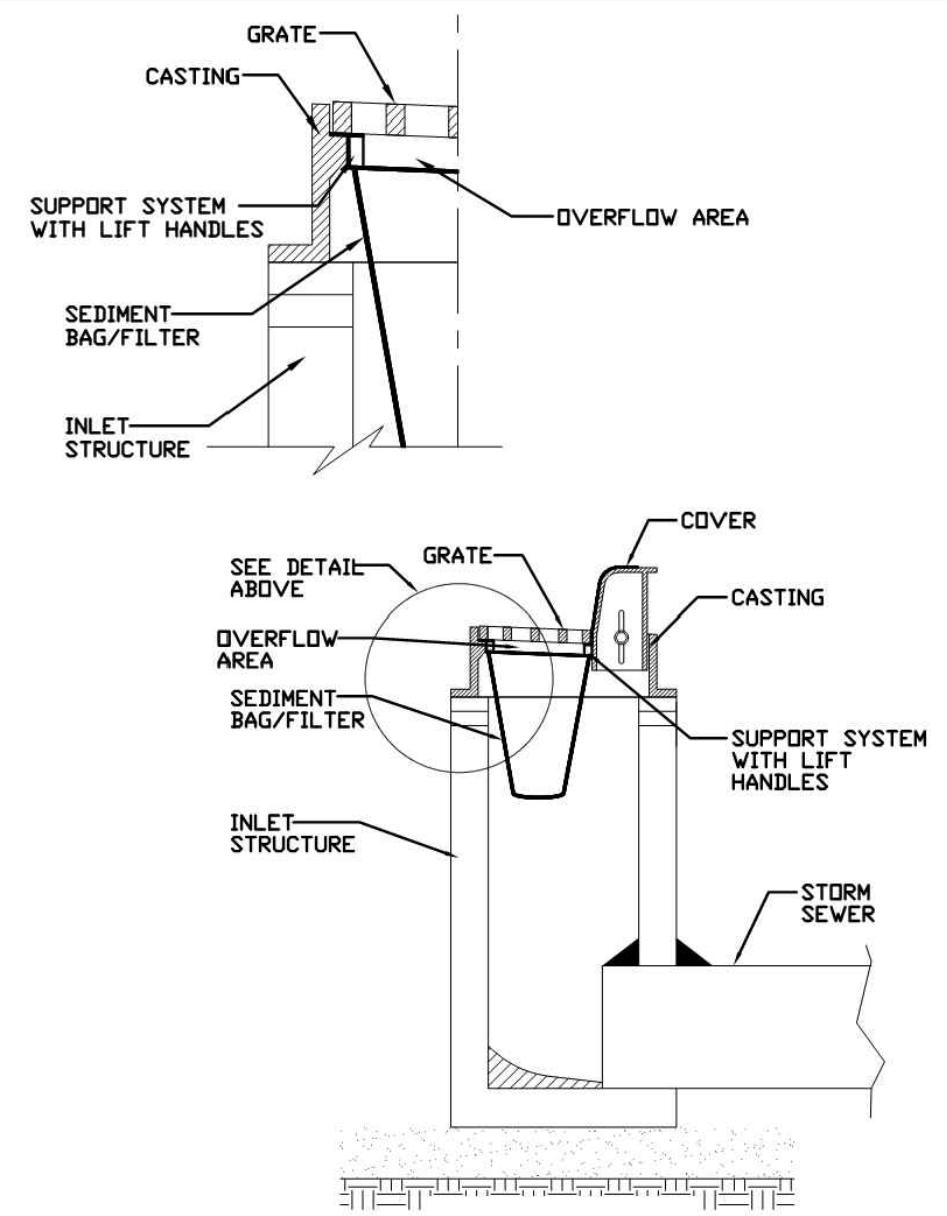
NOTES:

- Maintaining temporary concrete washout facilities shall include removing and disposing of hardened concrete and/or slurry and returning the facilities to a functional condition.
- Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.
- Each straw bale is to be staked in place using (2) 2"x2"x4" wooden stakes.

INLET PROTECTION - PAVED AREAS
CURB PROTECTION



INLET PROTECTION - PAVED AREAS
DROP-IN PROTECTION



COMPANY NAME: _____ PROJECT CONTACT: _____ CLIENT: _____ DATE PLOTTED: 12/12/2023 11:50 AM FILE NAME: Honkes-Details PLOT DRIVER: DWG To PDF.pc3 PEN TABLE: SEC-Standard.ctb	DESIGNED: _____ DRAWN: B. JOHNSON CHECKED: _____ APPROVED: _____	DATE: 6/08
	TEMPORARY CONCRETE WASHOUT FACILITY - STRAW BALE	
	Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	
	STANDARD DWG. NO. IUM-561C SHEET 1 OF 1 DATE 01-11-11	

Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	STANDARD DWG. NO. IUM-561D SHEET 1 OF 1 DATE 01-11-11

Project _____ Designed _____ Date _____ Checked _____ Date _____ Approved _____ Date _____	STANDARD DWG. NO. IUM-561D SHEET 1 OF 1 DATE 01-11-11

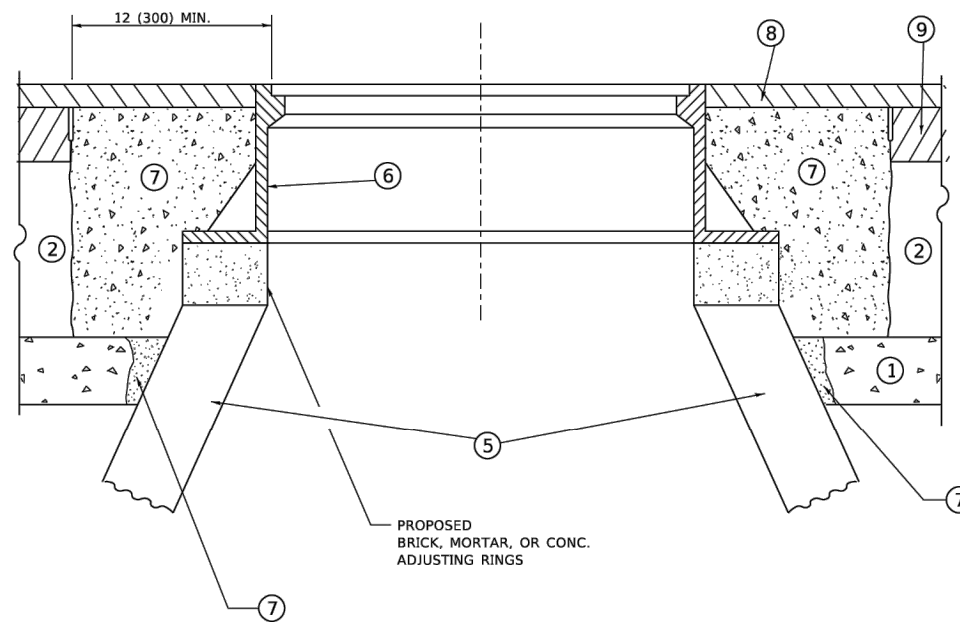
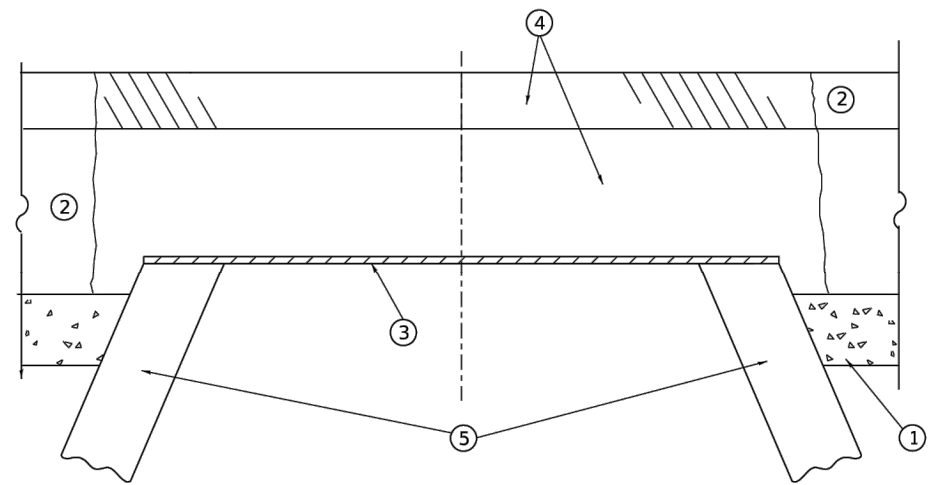
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PLOT SCALE = N.T.S.	CHECKED - TW	REVISED -
PLOT DATE = 12/12/2023	DATE - 08/03/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: N.T.S.	SHEET NO. 01 OF 01 SHEETS	STA. _____ TO STA. _____
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FAU RTE. 2299 1921	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 22
CONTRACT NO. 61J58				
ILLINOIS FED. AID PROJECT				



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

NOTES

1. 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.
2. 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.
3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* 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-2* 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

1. 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)."
2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
4. 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

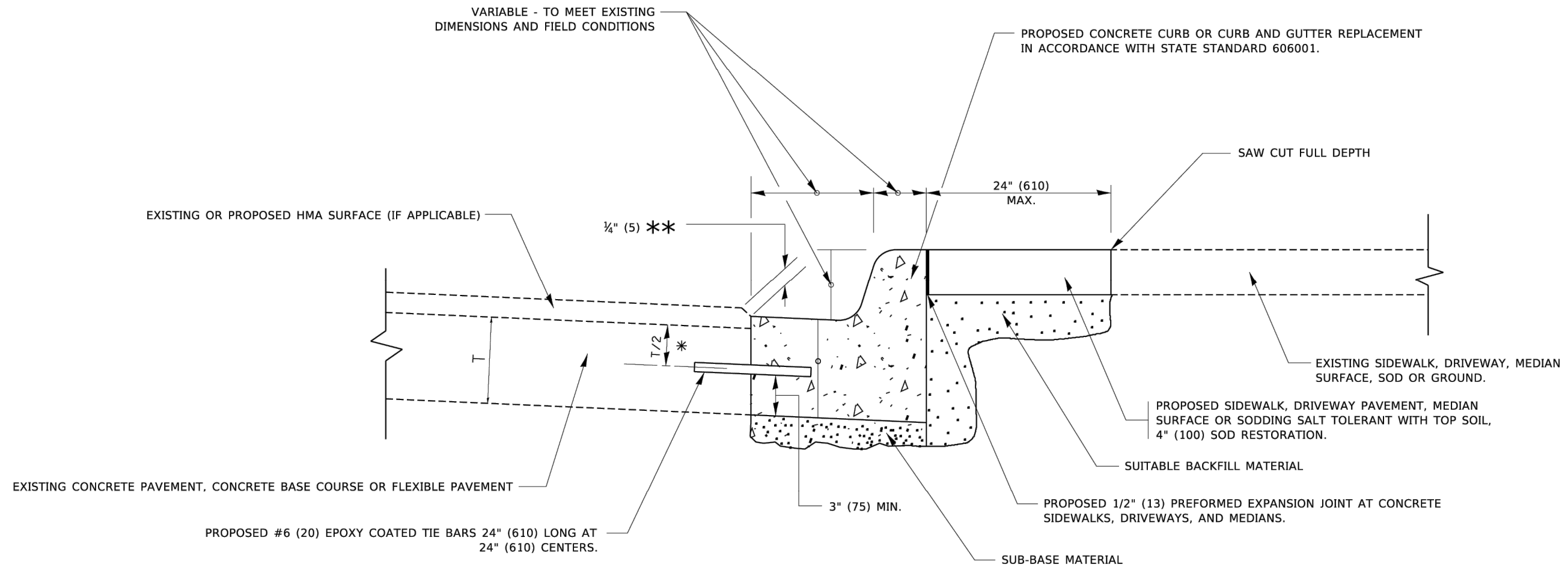
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	23
BD600-03 (BD-08)			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				

USER NAME = Lawrence.DeManche	DESIGNED - R. SHAH	REVISED - R. BORO 03-09-11
	DRAWN -	REVISED - R. BORO 12-06-11
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - K. SMITH 11-18-22
PLOT DATE = 9/15/2023	DATE - 10-25-94	REVISED - K. SMITH 09-15-23



- * 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.

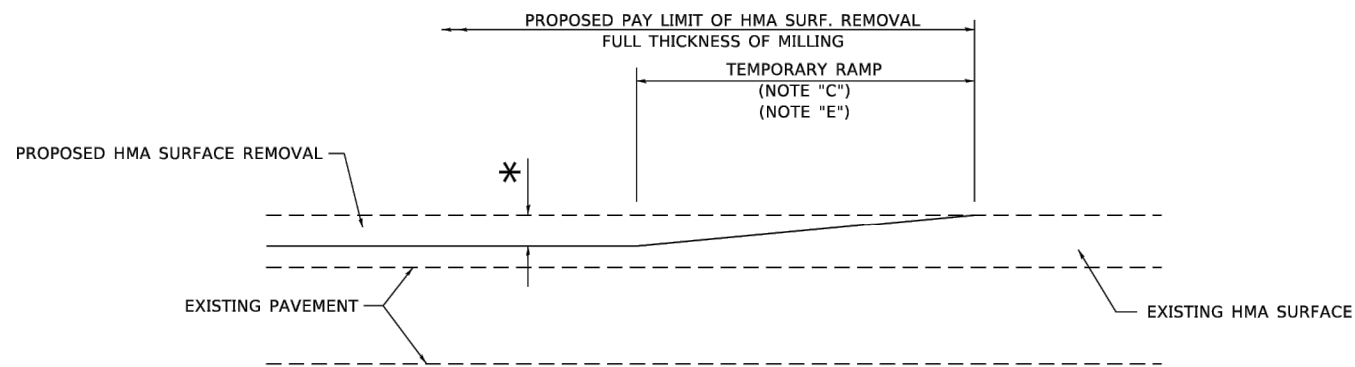
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USER NAME = footemj	DESIGNED - A. HOUSEH	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50.0000" / in.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.

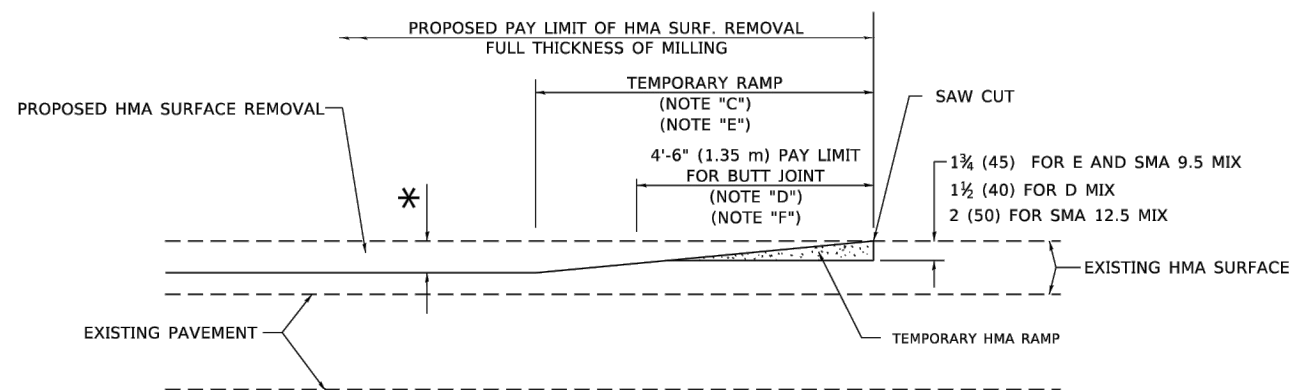
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BD600-06 (BD-24)		CONTRACT NO. 61J58		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

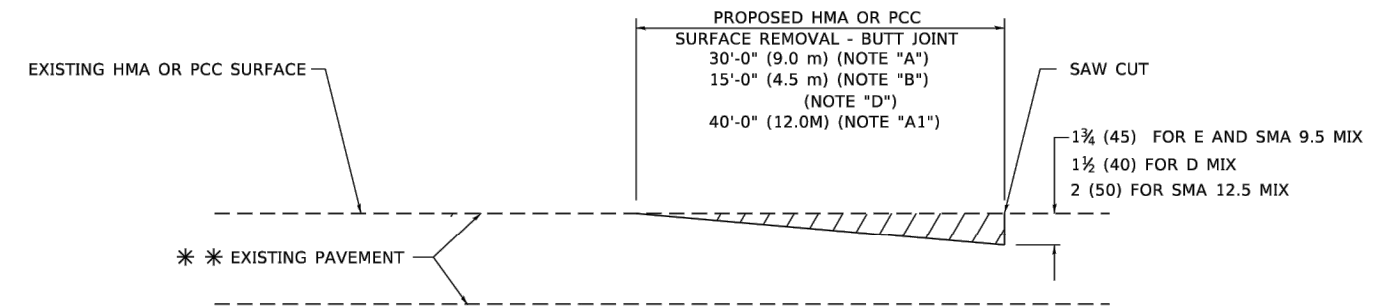


HMA CONSTRUCTED TEMPORARY RAMP

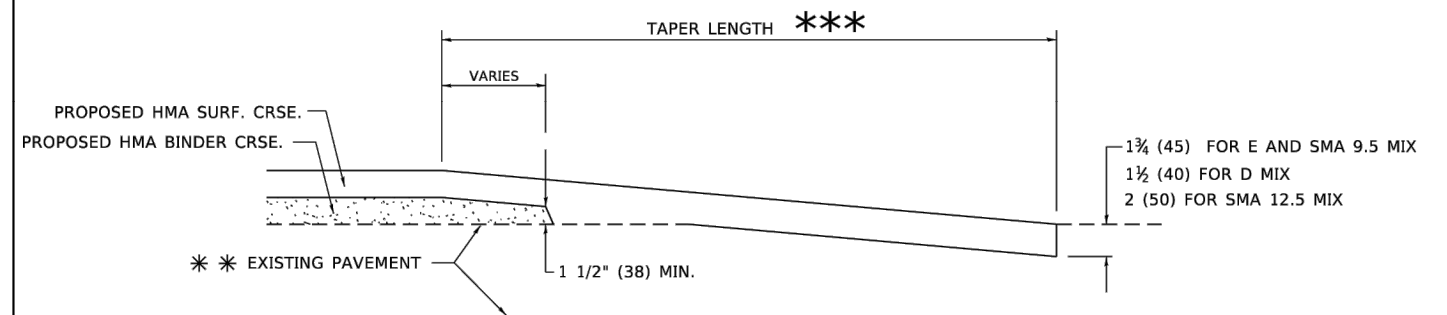
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

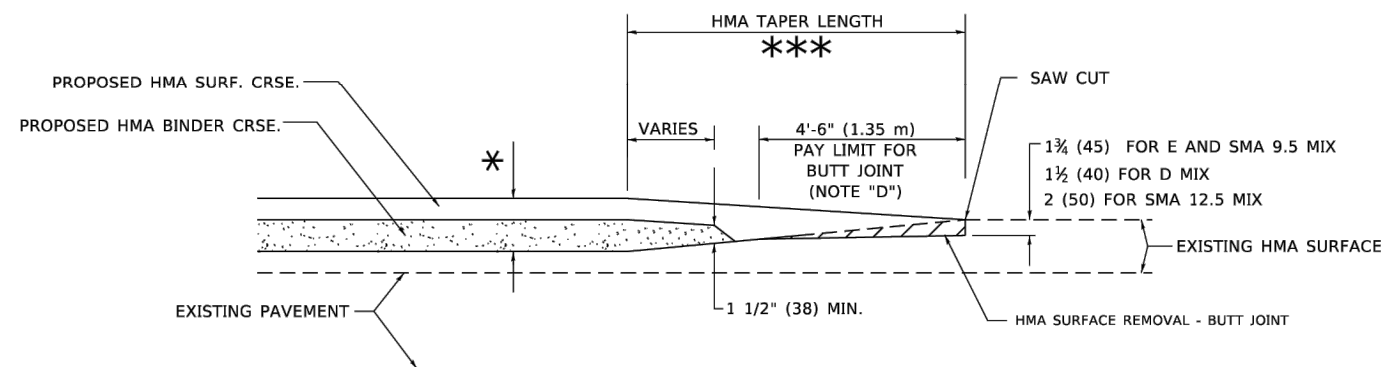
** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

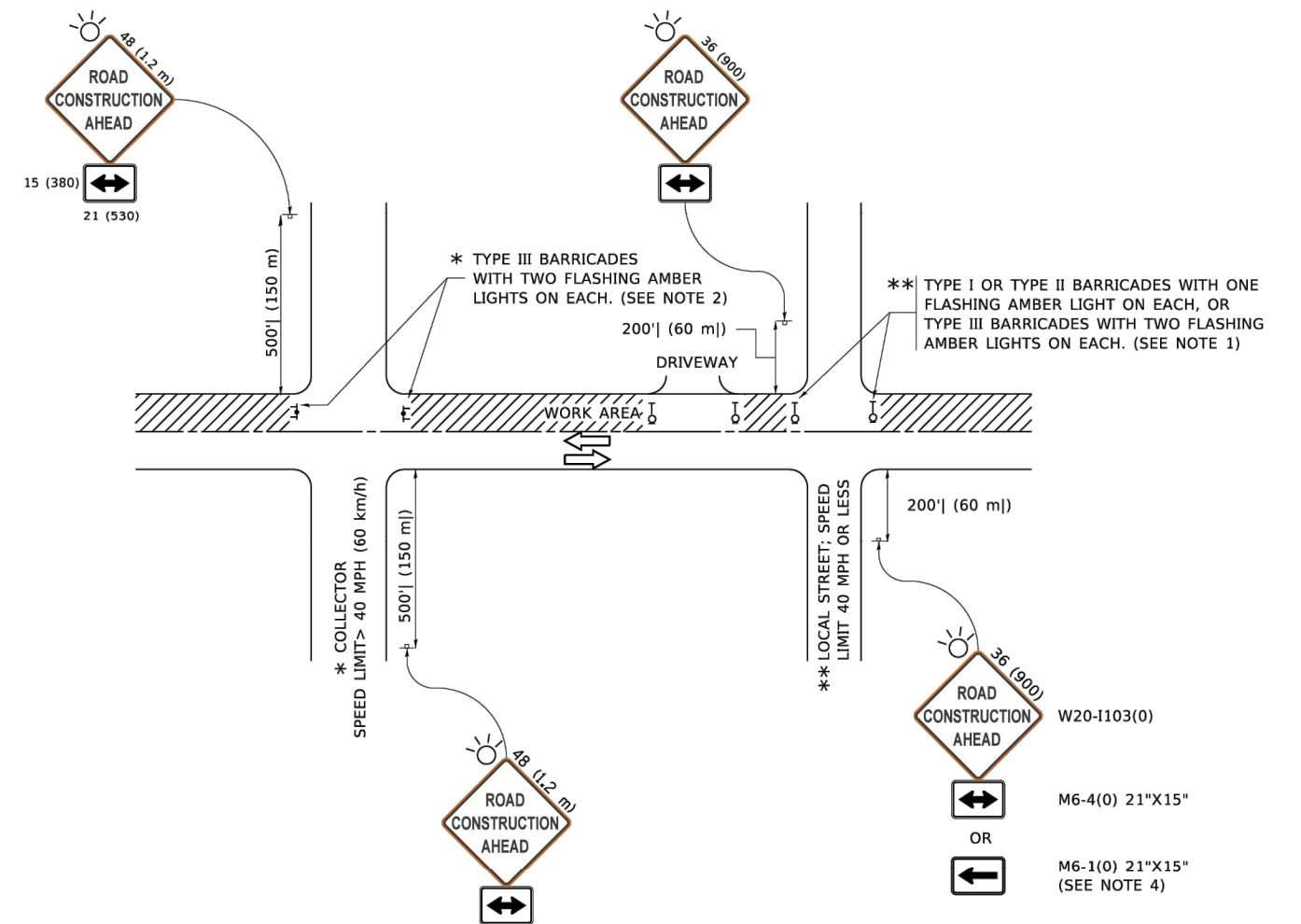
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PLOT DATE = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD400-05 BD-32		CONTRACT NO. 61J58		
ILLINOIS FED. AID PROJECT				

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NOTES:

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

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

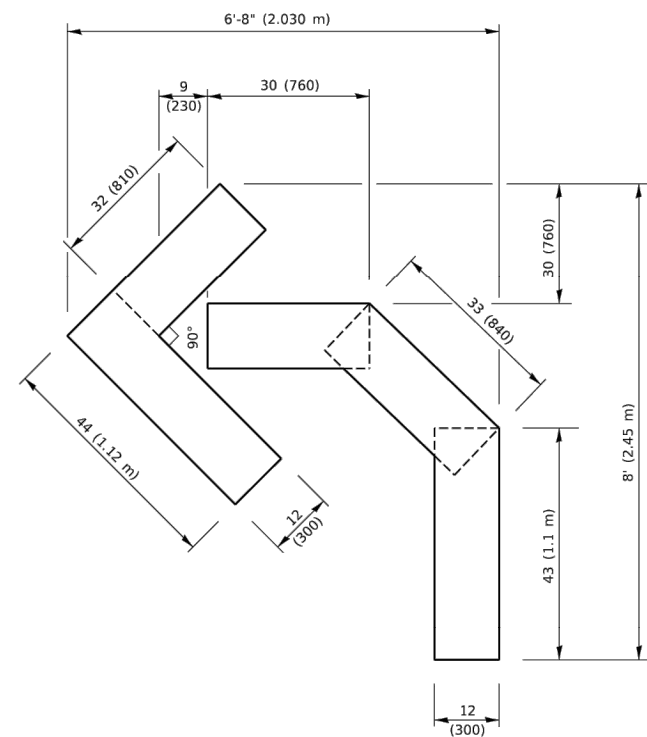
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PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

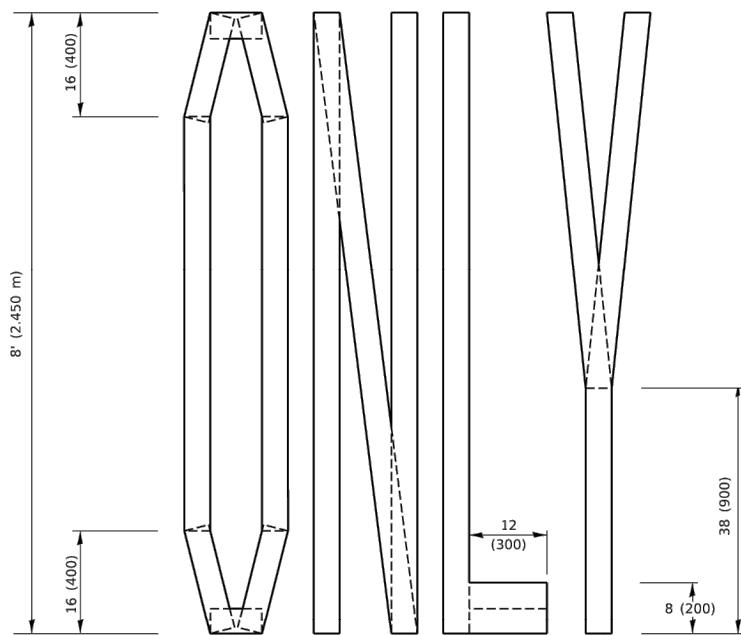
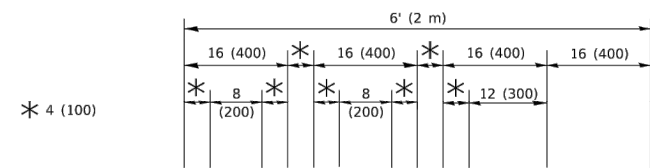
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	27
TC-10			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				



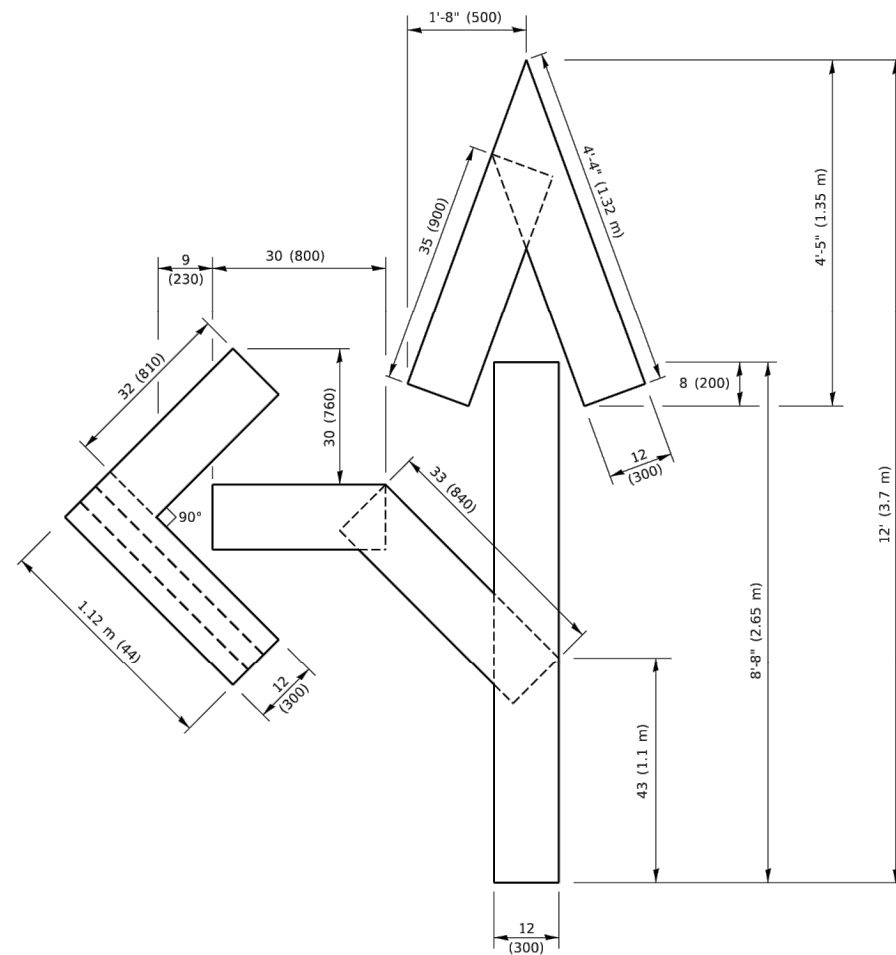
QUANTITY

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)

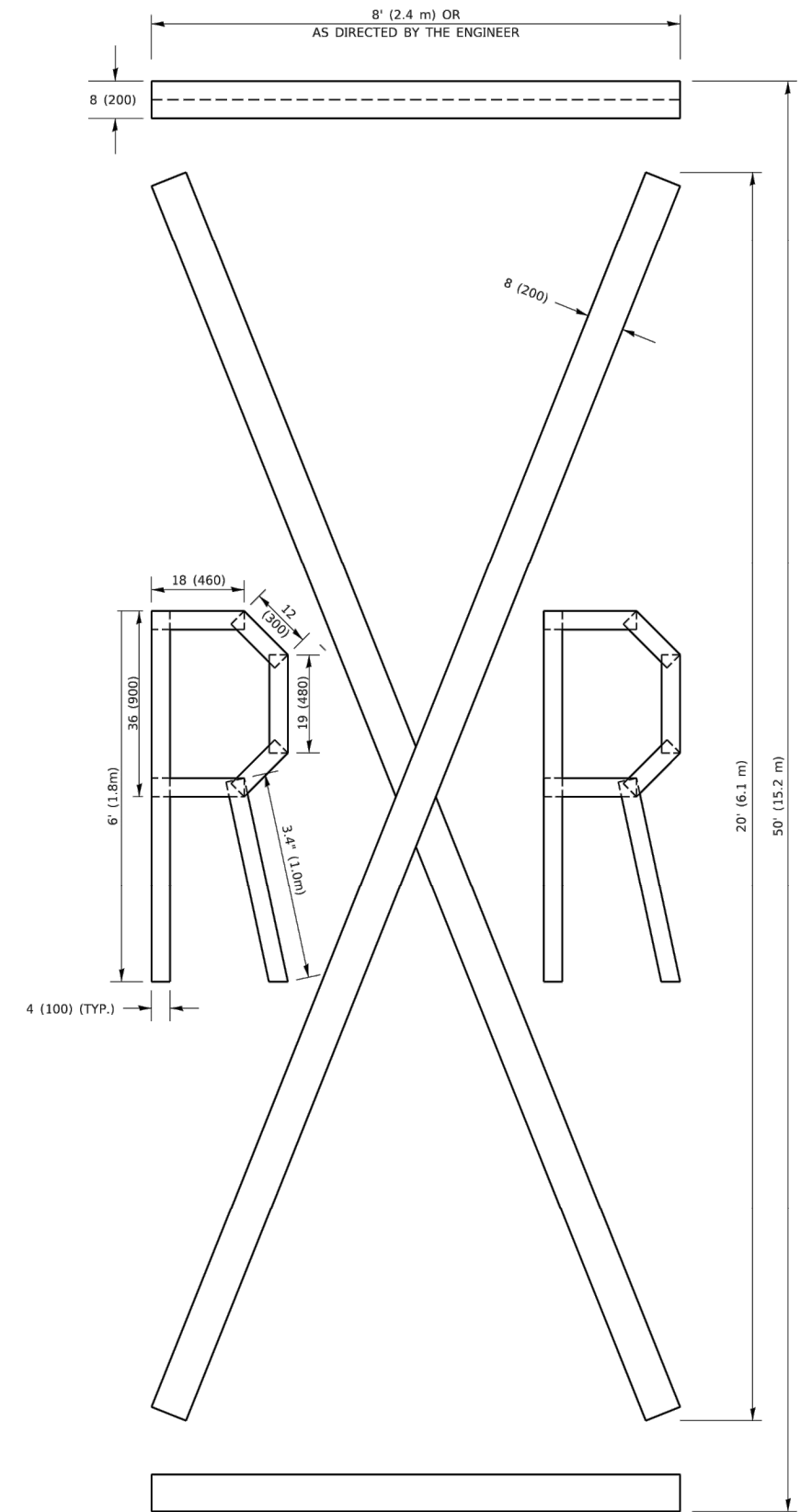


QUANTITY

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.

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	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLOT SCALE = 50.0068" / in.	CHECKED -	REVISED - E. GOMEZ 08-28-00
PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

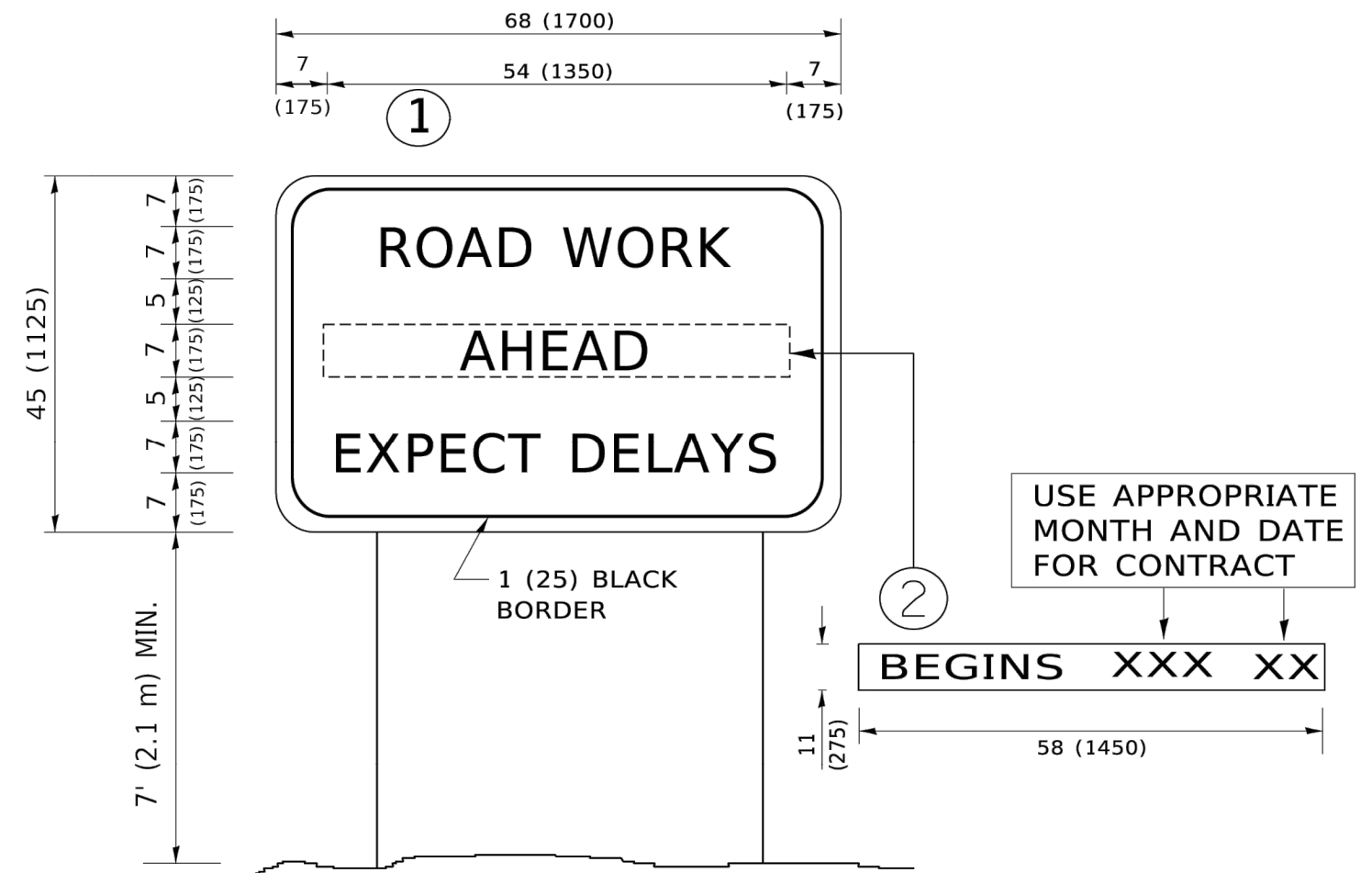
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	29
TC-16			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				

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NOTES:

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

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

USER NAME = footemj	DESIGNED -	REVISED - R. MIRS 09-15-97
	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**

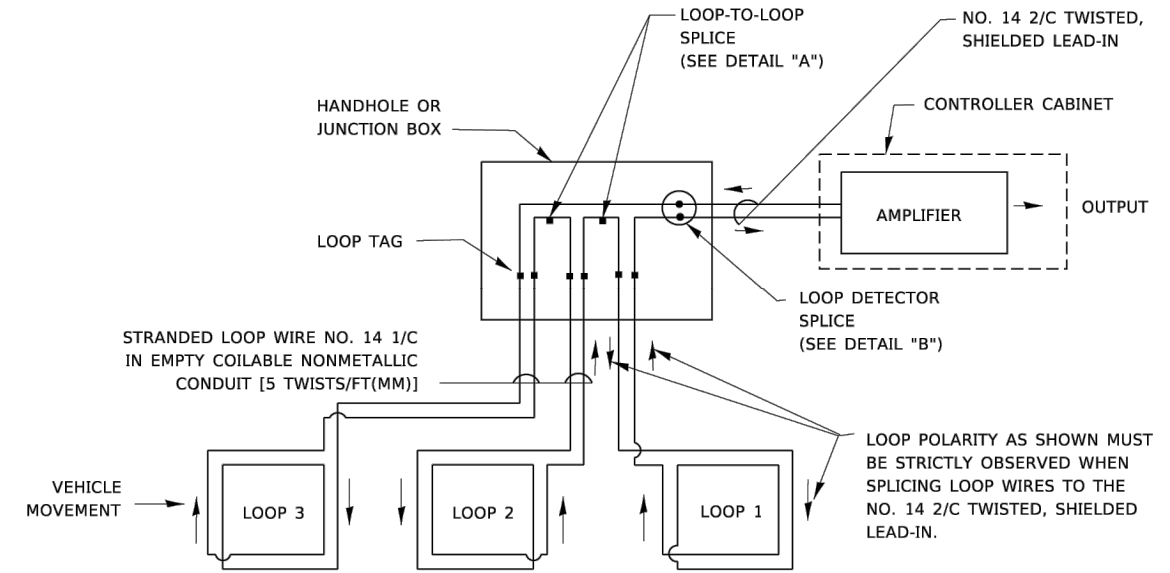
**ARTERIAL ROAD
 INFORMATION SIGN**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	30
TC-22			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				

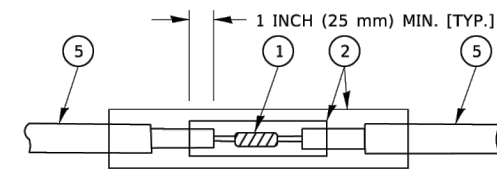
LOOP DETECTOR NOTES

- 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 DIVESHOLES 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.

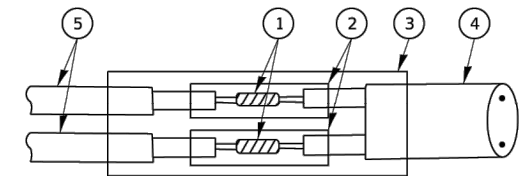


DETECTOR LOOP WIRING SCHEMATIC

- 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.



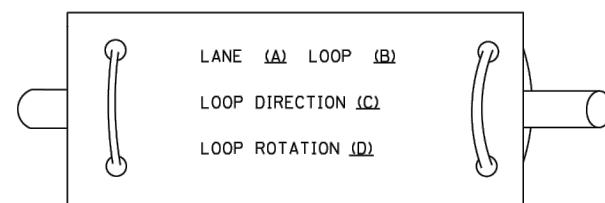
DETAIL "A"
LOOP-TO-LOOP SPLICE



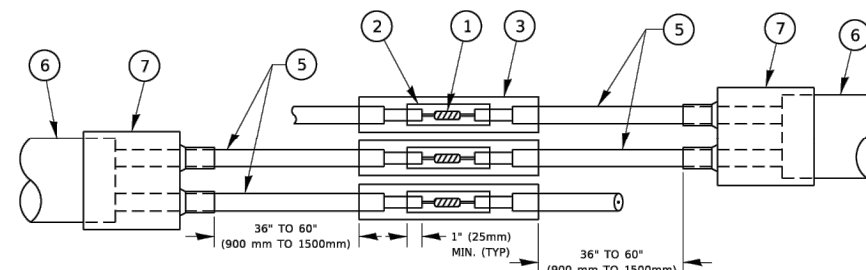
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP

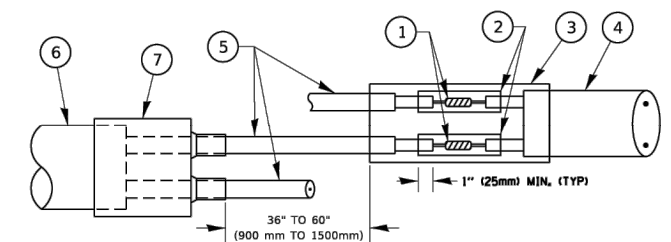
LOOP LEAD-IN CABLE TAG



- 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.



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 LENGTH 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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

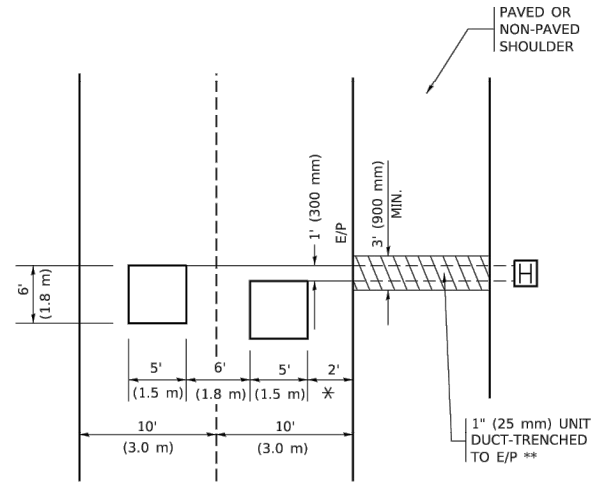
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	31
TS-05			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



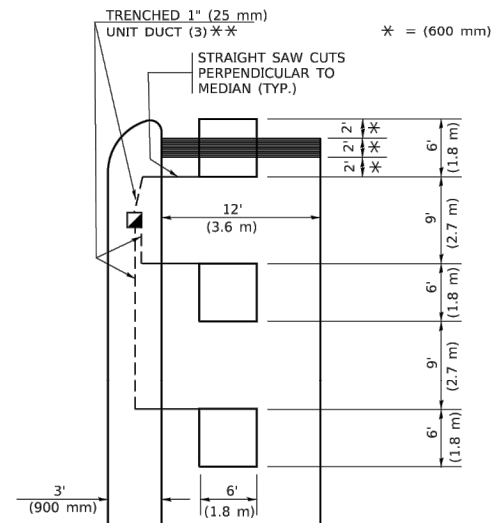
* = (600 mm)

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

LEFT TURN LANES WITH MEDIANS

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

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



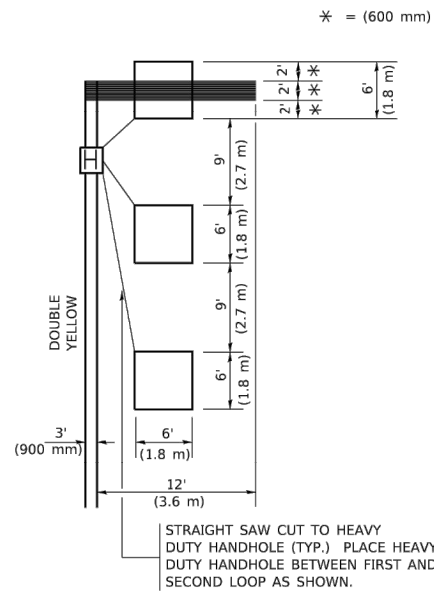
* = (600 mm)

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

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

LEFT TURN LANES WITHOUT MEDIANS

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



* = (600 mm)

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

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

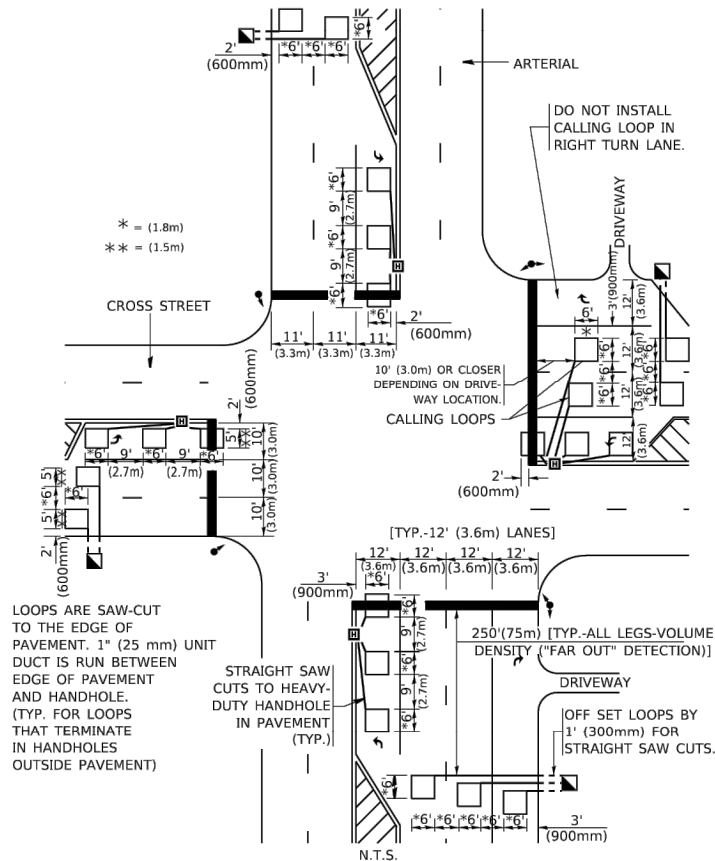
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

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

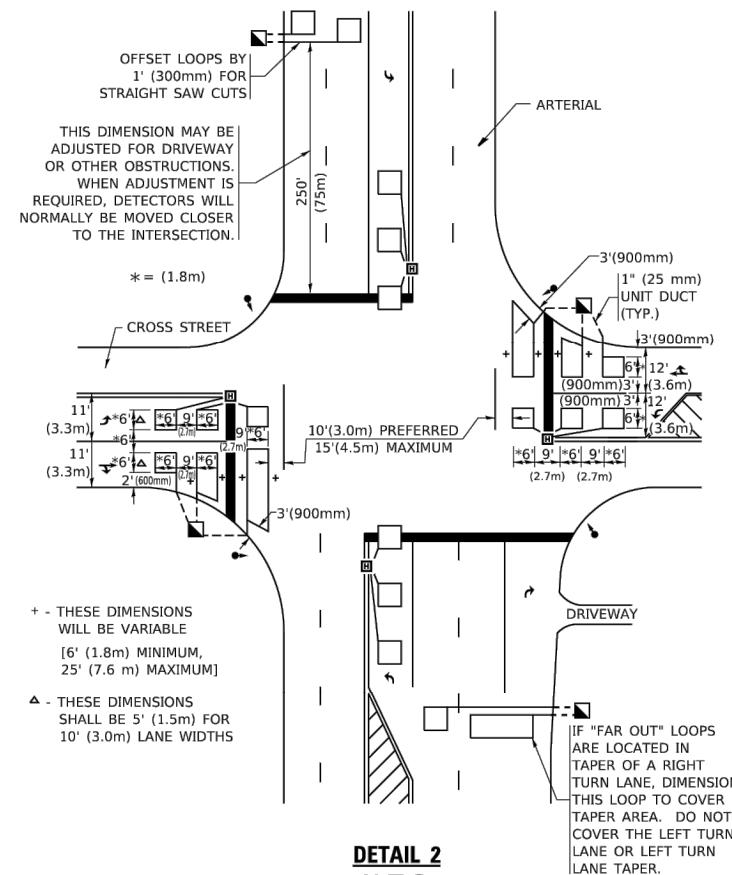
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

MODEL: Defaut
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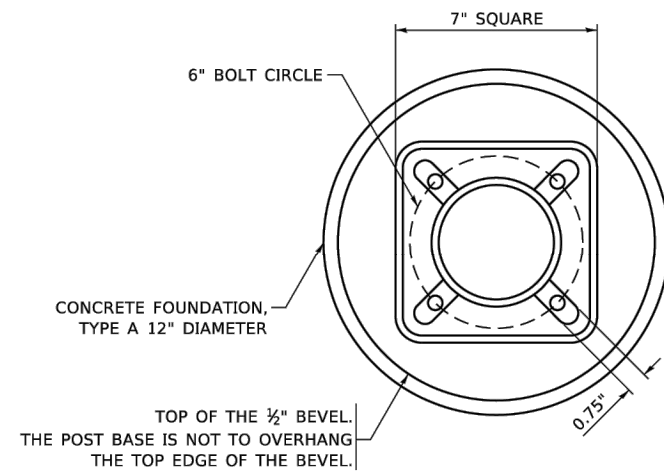
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DRAWN -	CHECKED - R.K.F.	REVISED -
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PLOT DATE = 3/4/2019		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

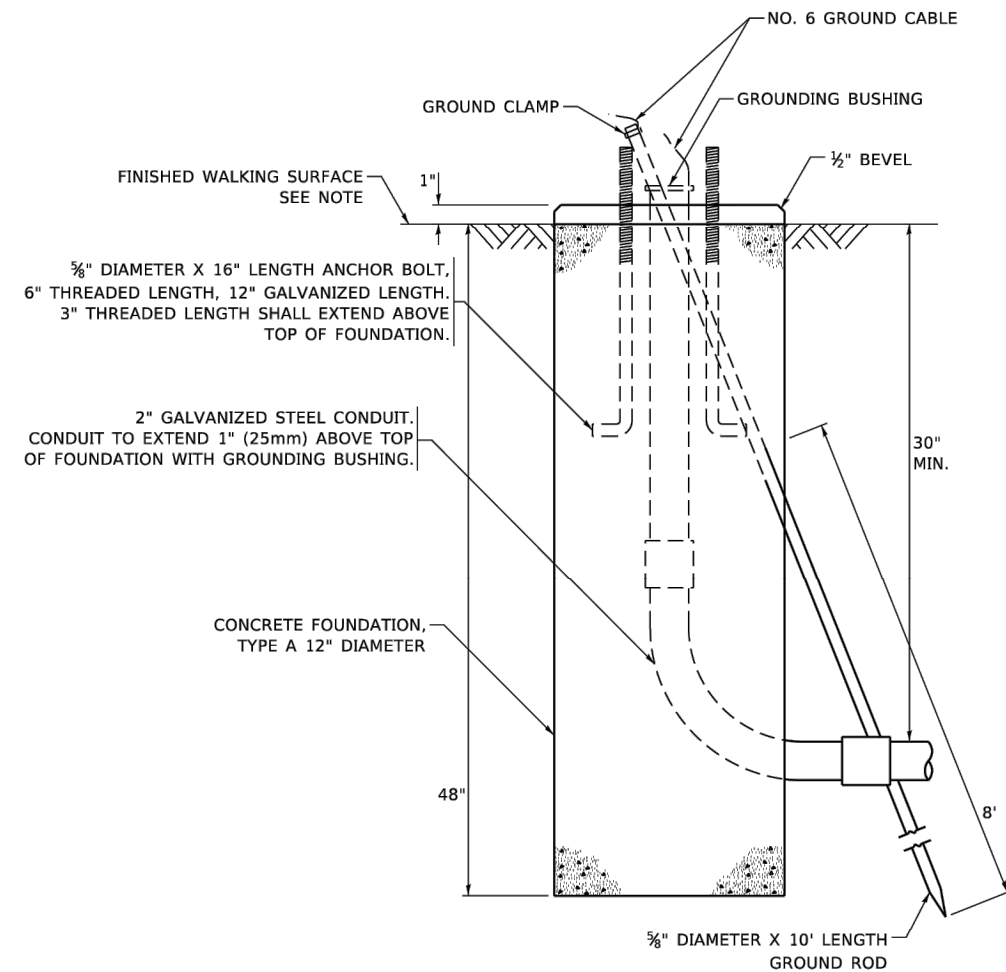
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2299 1521	22-00354-00-RS	KANE	33	32
TS-07			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				

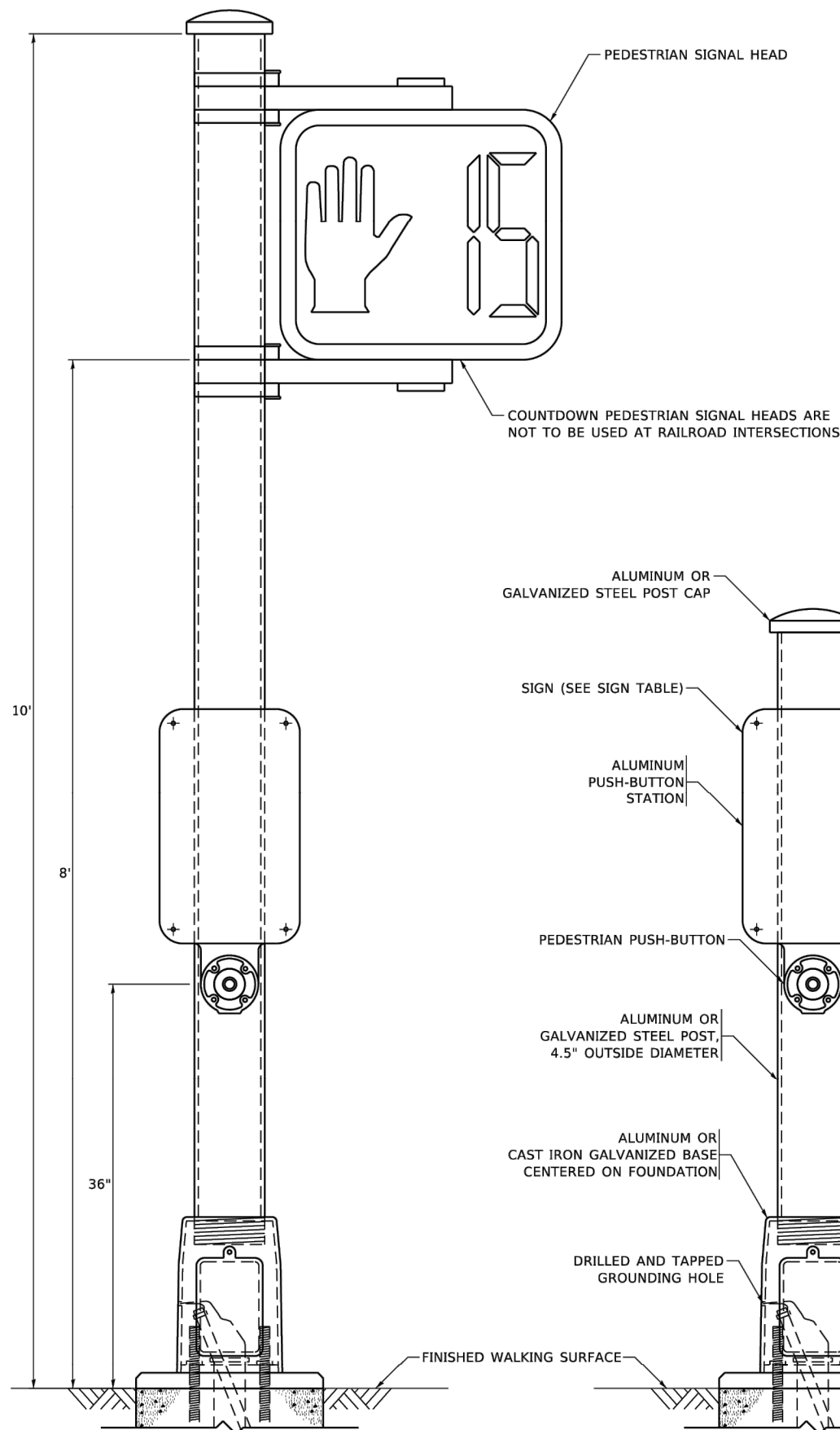


BOLT PATTERN

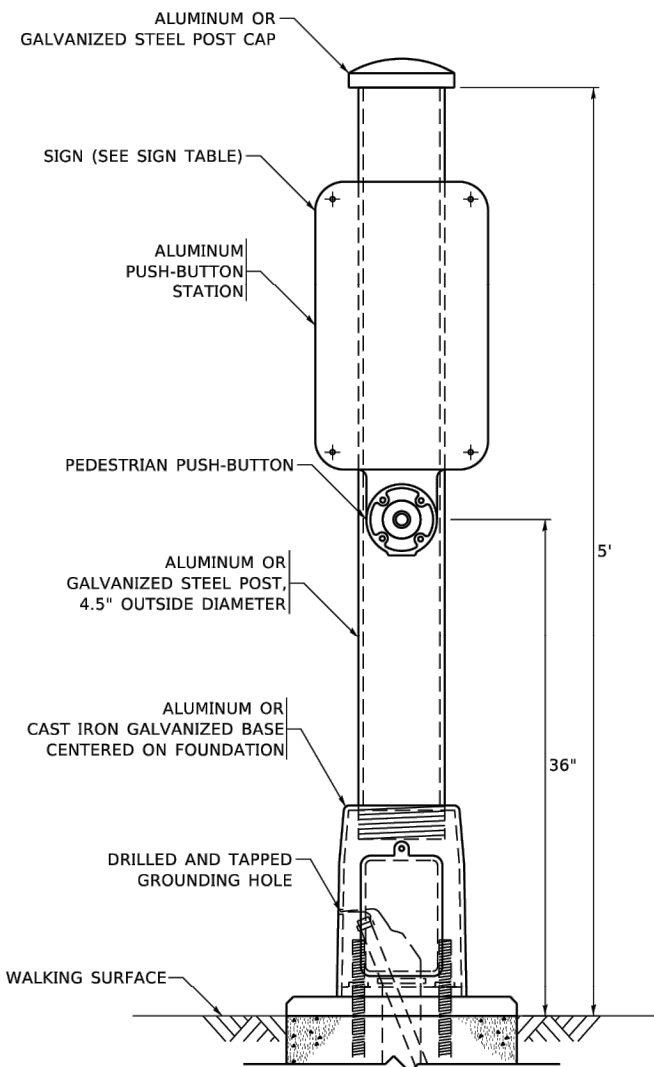
NOTE:
 1. IF THE PEDESTRIAN SIGNAL POST FOUNDATION IS INSTALLED WITHIN OR BEHIND A BARRIER CURB, THE TOP OF THE FOUNDATION SHALL BE INSTALLED FLUSH WITH THE TOP OF THE BARRIER CURB.



**CONCRETE FOUNDATION,
 TYPE A 12-INCH DIAMETER**



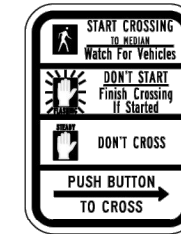
PEDESTRIAN SIGNAL POST, 10 FT.



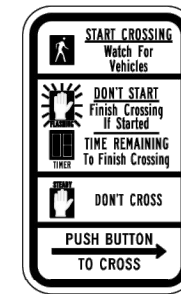
PEDESTRIAN SIGNAL POST, 5 FT.



R10-3b



R10-3d



R10-3e

SIGN TABLE

SIGN	DIMENSIONS
R10-3b (RAILROAD ONLY)	9" X 12"
R10-3d (RAILROAD ONLY)	9" X 12"
R10-3e	9" X 12"

NOTES:
 1. THE SIGN PANELS SHALL BE TYPE AP SHEETING.
 2. THE ARROW ON SIGNS FOR PUSH-BUTTONS SERVING TWO DIRECTIONS ON THE SAME PHASE SHALL BE BI-DIRECTIONAL.
 3. THE SIGN FOR DUAL-CALL PUSH-BUTTONS SHALL HAVE NO ARROW.

MODEL - Default
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 PROJECT - 22-00354-00-RS
 SHEET - 33
 DATE - 11/23/2020

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PLOT DATE = 11/23/2020	CHECKED - LP	REVISED -
	DATE - 10-15-2018	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
 STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A. RTE. 2299-1521	SECTION 22-00354-00-RS	COUNTY KANE	TOTAL SHEETS 33	SHEET NO. 33
TS-05			CONTRACT NO. 61J58	
ILLINOIS FED. AID PROJECT				