

128



* 31 + 14 = 45 TOTAL SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
346	2018-51-RS&CR	LAKE	31	1
ILLINOIS			CONTRACT NO. 62G96	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PROPOSED HIGHWAY PLANS

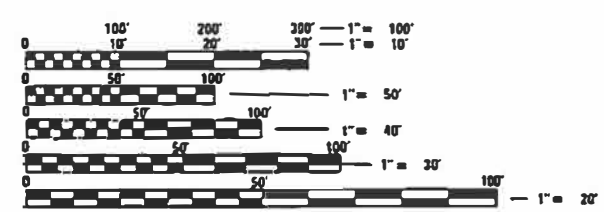
FOR INDEX OF SHEETS SEE SHEET NO.2

THE PROJECT IS LOCATED IN THE CITY OF HIGHLAND PARK

F.A.P. 346: US RTE 41
SOUTH OF CHANTILLY BOULEVARD TO LAKE-COOK ROAD &
RAMPS AT CLAVEY ROAD AND SKOKIE VALLEY ROAD
SECTION: 2018-051-RS&CR
RESURFACING (3P), PEDESTRIAN RAMPS
PROJECT: NHPP-NSJV(793)
LAKE COUNTY
C-91-283-18

TRAFFIC DATA:
2017 ADT = 53,000 - 67,000
POSTED SPEED LIMIT = 55 MPH

DESIGN DESIGNATION:
OTHER PRINCIPAL ARTERIAL



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

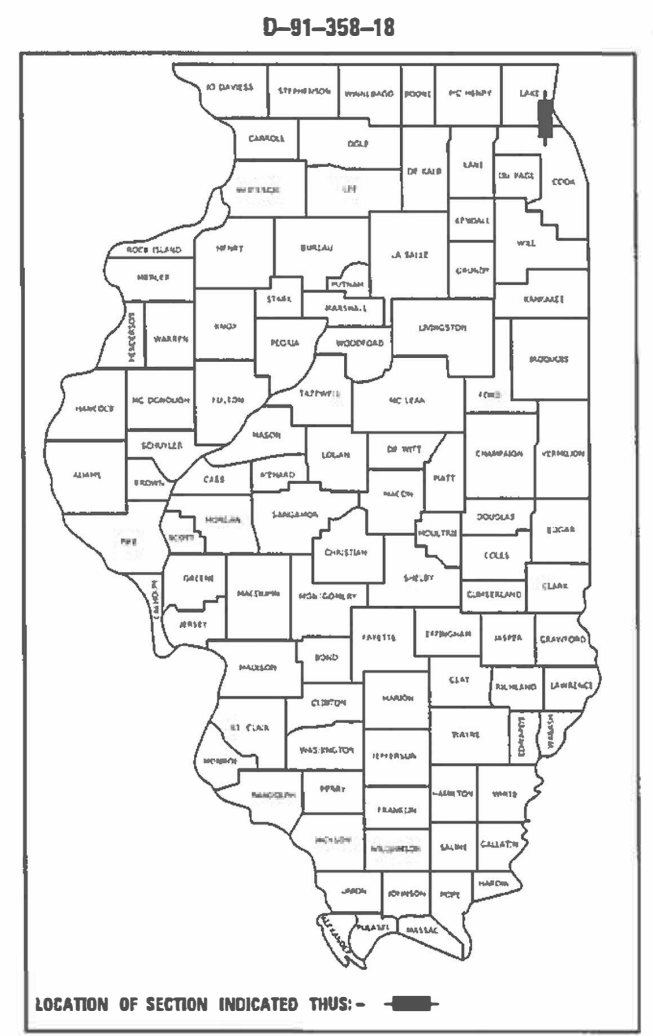
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: KARI SMITH (847) 705-4437
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

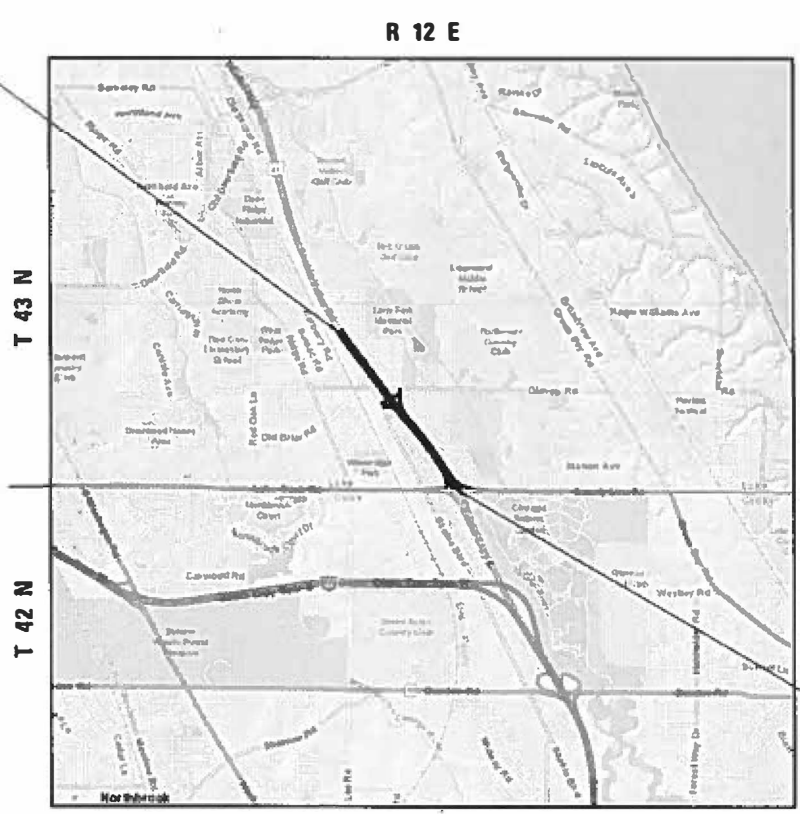
CONTRACT NO. 62G96

GROSS LENGTH = 5001.95 FT = 0.947 MI
NET LENGTH = 5001.95 FT = 0.947 MI

REV. 4-10-2019



US RTE 41
END PROJECT:
STA. 63+01.95



US RTE 41
START PROJECT:
STA. 13+00.00

MORAINE TOWNSHIP

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 29, 2019

Anthony J. Deringer REGIONAL ENGINEER

March 22, 2019

Paul P. [Signature] ENGINEER OF DESIGN AND ENVIRONMENT

March 20, 2019

Paul P. [Signature] DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

REV. - MS

INDEX OF SHEETS

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7	TYPICAL SECTIONS
9	ROADWAY PLANS
12	PAVEMENT MARKING PLANS
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15	ADA SIDEWALK DETAILS
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20	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
21	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
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30	TC-22: ARTERIAL ROAD INFORMATION SIGN
30A	TC-25: TRAFFIC CONTROL DETAILS FOR FREEWAY CENTER LANE CLOSURE SHOULDER LANE
31	TS-05: STANDARD TRAFFIC SIGNAL DESIGN DETAILS
31A-31H	TSC INDUCTION LOOP DETAILS

LIST OF STATE STANDARDS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424021-05	DEPRESSED CORNER FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSING
442001-04	CLASS A PATCHES
442201-03	CLASS C AND D PATCHES
482011-03	HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
642001-02	SHOULDER RUMBLE STRIPS, 16 IN.
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY
701411-09	LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
701428-01	TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY/EXPRESSWAY
701446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS

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△ REV. 4-10-2019

USER NAME = rostkowskir	DESIGNED - RR	REVISED - 4/16/2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100.0000' / in.	DRAWN - RR	REVISED -		US RTE 41 (SKOKIE HIGHWAY); S OF CHANTILLY BLVD TO LAKE-COOK RD			346	2018-51-RS&CR	LAKE	31	2
PLOT DATE = 4/3/2019	CHECKED - KS	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. -	TO STA. -	CONTRACT NO. 62G96		
	DATE - 1/31/2019	REVISED -					ILLINOIS FED. AID PROJECT				

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 ROADWAY	80% FED. 20% STATE
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	400	400	
* 81028730	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 1 1/4" DIA.	FOOT	125	125	
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	503	503	
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1	
X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1339	1339	
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	100	100	
* X2700012	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 8"	FOOT	266	266	
X4060004	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, N80	TON	4166	4166	
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	967	967	
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1275	1275	
X4405030	LONGITUDINAL PARTIAL DEPTH REMOVAL 3"	FOOT	15975	15975	
X4420900	LONGITUDINAL PARTIAL DEPTH PATCHING	TON	596	596	
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	200	200	
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	2	2	
X6330900	VERTICAL ADJUSTMENT OF GUARDRAIL	FOOT	1045	1045	
X7011015	TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS)	L SUM	1	1	

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE	
CODE NO	ITEM	UNIT		0005 ROADWAY	80% FED. 20% STATE
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SQ FT	17996	17996	
* X7830076	GROOVING FOR RECESSED PAVEMENT MARKING 9"	FOOT	266	266	
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	380	380	
# Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	15	15	
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	77	77	
* X8730312	ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 18 4/C, TWISTED, SHIELDED	FOOT	2640	2640	
* X8850102	INDUCTION LOOP	FOOT	1190	1190	



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REV. 4-10-2019

* SPECIALTY ITEMS
 # NON-PARTICIPATING ITEMS: 100% STATE

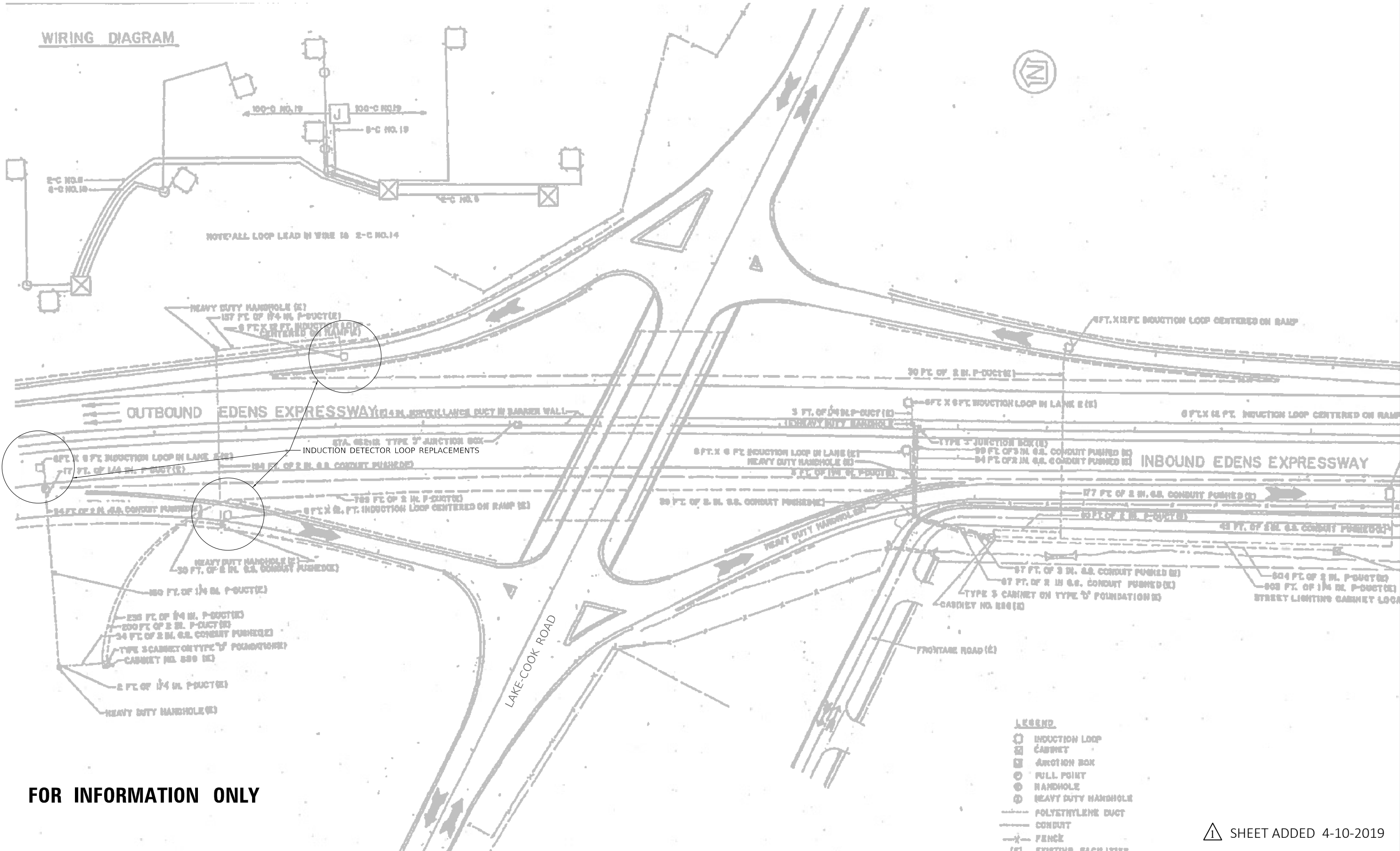
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DRAWN - RR	CHECKED - KS	REVISED -
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PLOT DATE = 2/5/2019		

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES
US RTE 41 (SKOKIE HIGHWAY); S OF CHANTILLY BLVD TO LAKE-COOK RD
 SCALE: NONE SHEET 3 OF 3 SHEETS STA. - TO STA. -

F.A.P. RTE. 346	SECTION 2018-51-R5&CR	COUNTY LAKE	TOTAL SHEETS 31	SHEET NO. 6
CONTRACT NO. 62G96			ILLINOIS FED. AID PROJECT	

WIRING DIAGRAM



FOR INFORMATION ONLY

- LEGEND**
- INDUCTION LOOP
 - CABINET
 - ⊞ JUNCTION BOX
 - FULL POINT
 - HANDHOLE
 - ⊙ HEAVY DUTY HANDHOLE
 - POLYETHYLENE DUCT
 - CONDUIT
 - - - FENCE
 - (E) EXISTING FACILITIES

▲ SHEET ADDED 4-10-2019

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 Date: 4/3/2019

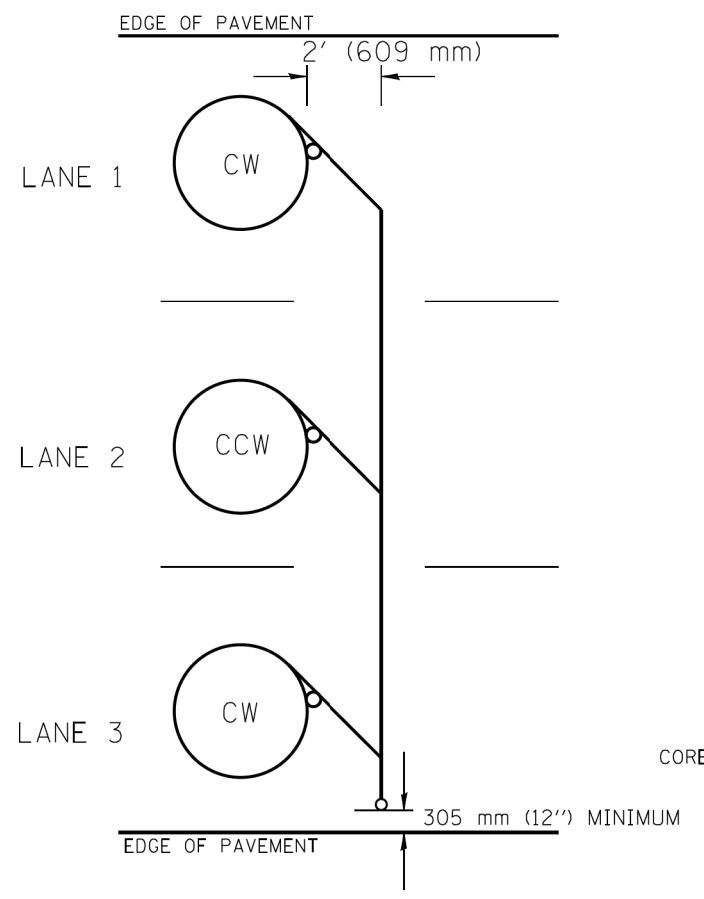
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PLOT DATE = 4/3/2019	DATE - 1/31/2019	REVISIONS -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

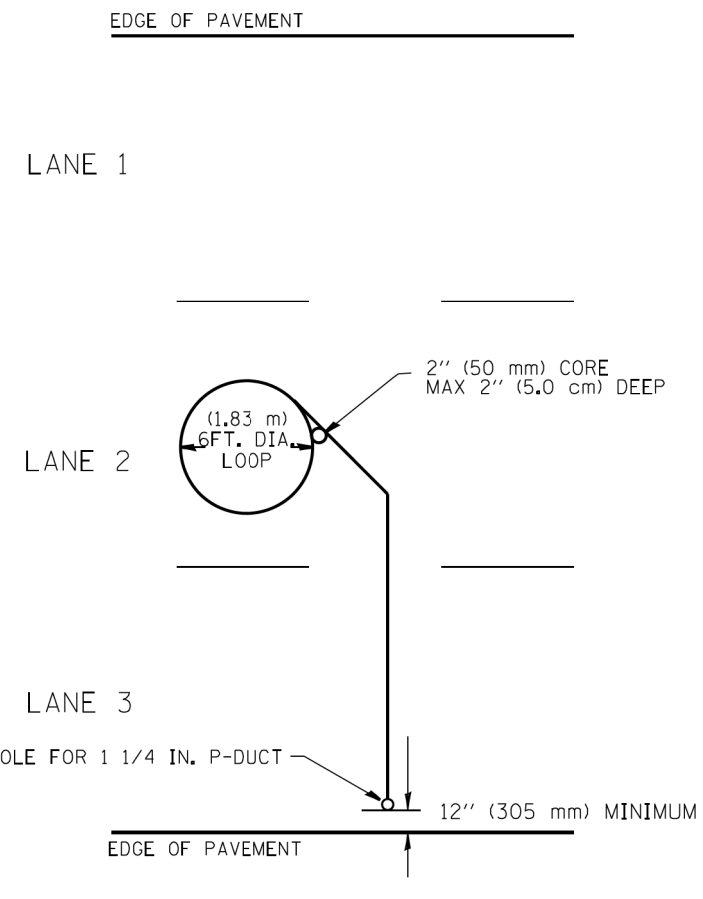
**INDUCTION LOOP REPLACEMENT LOCATIONS
US RTE 41 (SKOKIE HIGHWAY); S OF CHANTILLY BLVD TO LAKE-COOK RD**

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. - TO STA. -

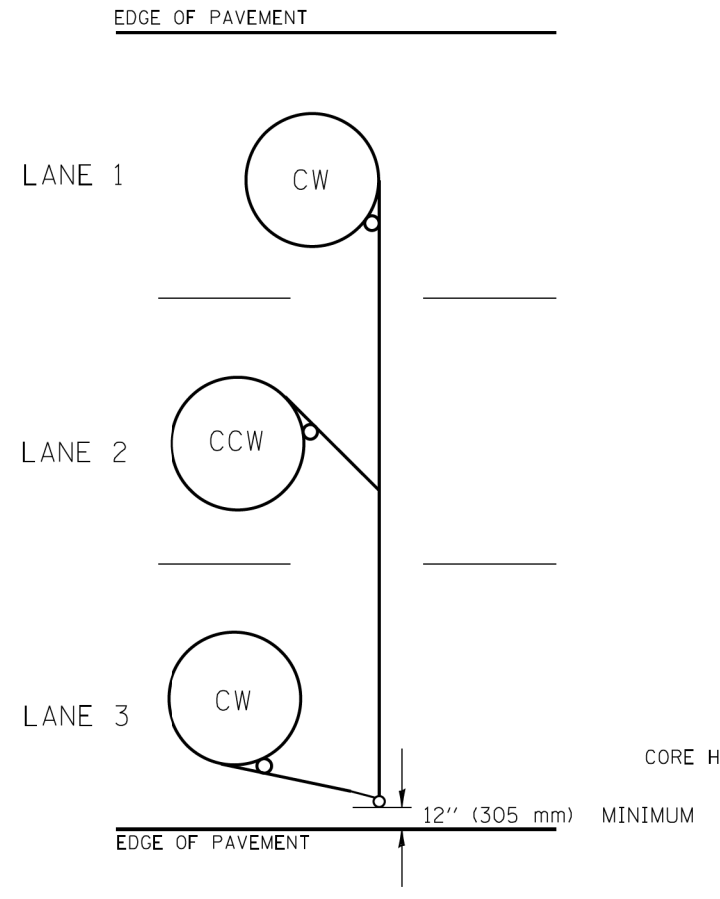
F.A.P. RTE. 346	SECTION 2018-51-R5&CR	COUNTY LAKE	TOTAL SHEETS 31	SHEET NO. 18A
CONTRACT NO. 62G96				
ILLINOIS FED. AID PROJECT				



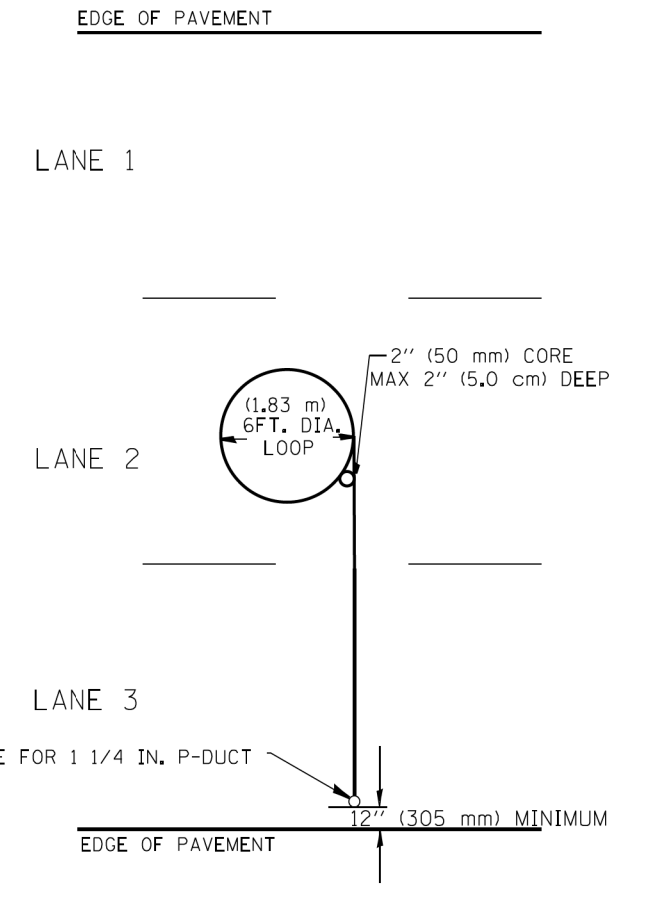
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



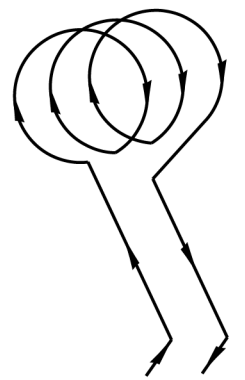
TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP CORE DRILL
LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6' (1.83 m) DIA. INDUCTION LOOP
LAYOUT FOR LANE 2



WIRING DETAILS

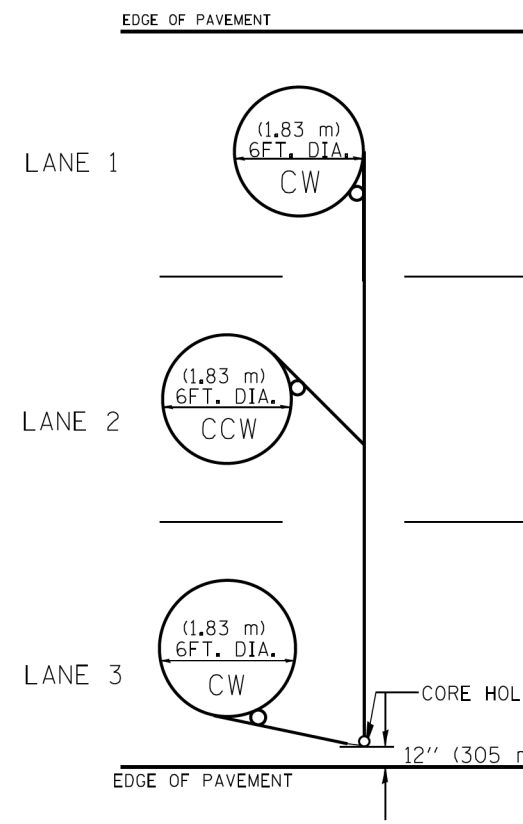
NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

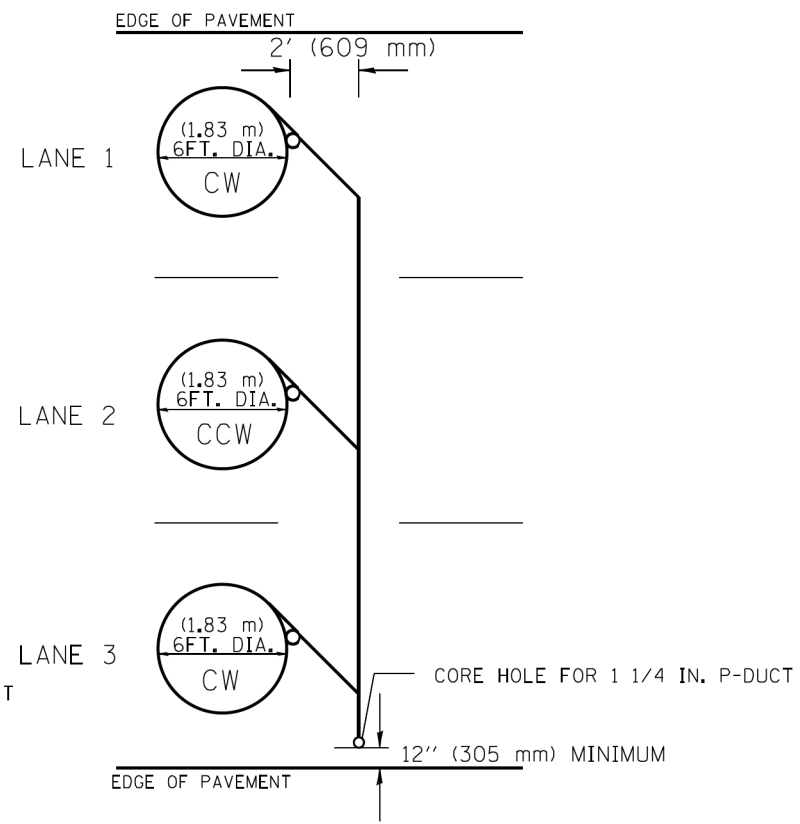
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FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	EXISTING ROUND LOOP INSTALLATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\mezag\d0287541\TSC1Y.dgn	DRAWN - G.M.	REVISED - 9/96	346					2018-51-RS&CR	LAKE	31	31A	
PLOT SCALE = 100.0000' / 1in.	CHECKED - R.L.	REVISED - R.L. 03/2011	CONTRACT NO. 62G96									
PLOT DATE = 5/18/2012	DATE - 6-22-94	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT	SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.		

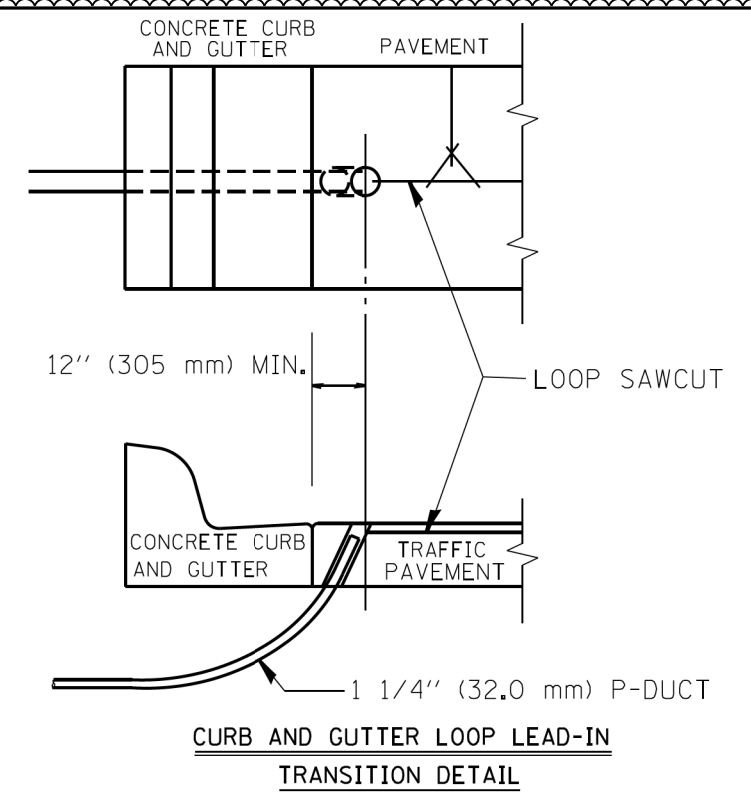
TRAFFIC SYSTEMS CENTER (TY-1TSC-418#1)



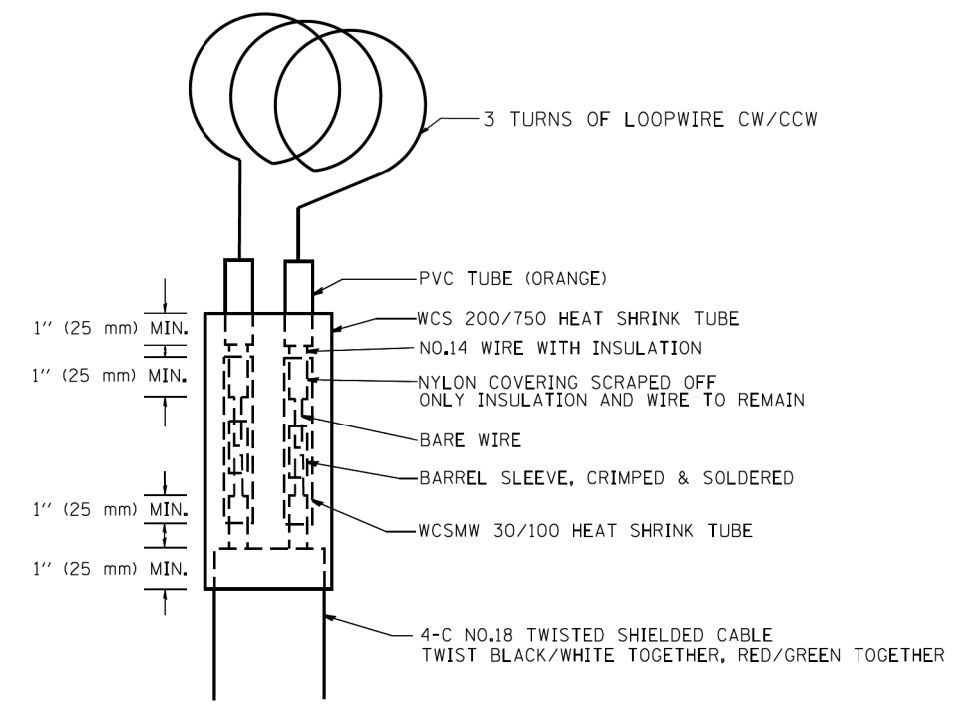
TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY



TYPICAL 6FT. (1.83 m) DIA. INDUCTION LOOP CORE DRILL LAYOUT FOR MULTIPLE LANE ROADWAY



CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL



MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

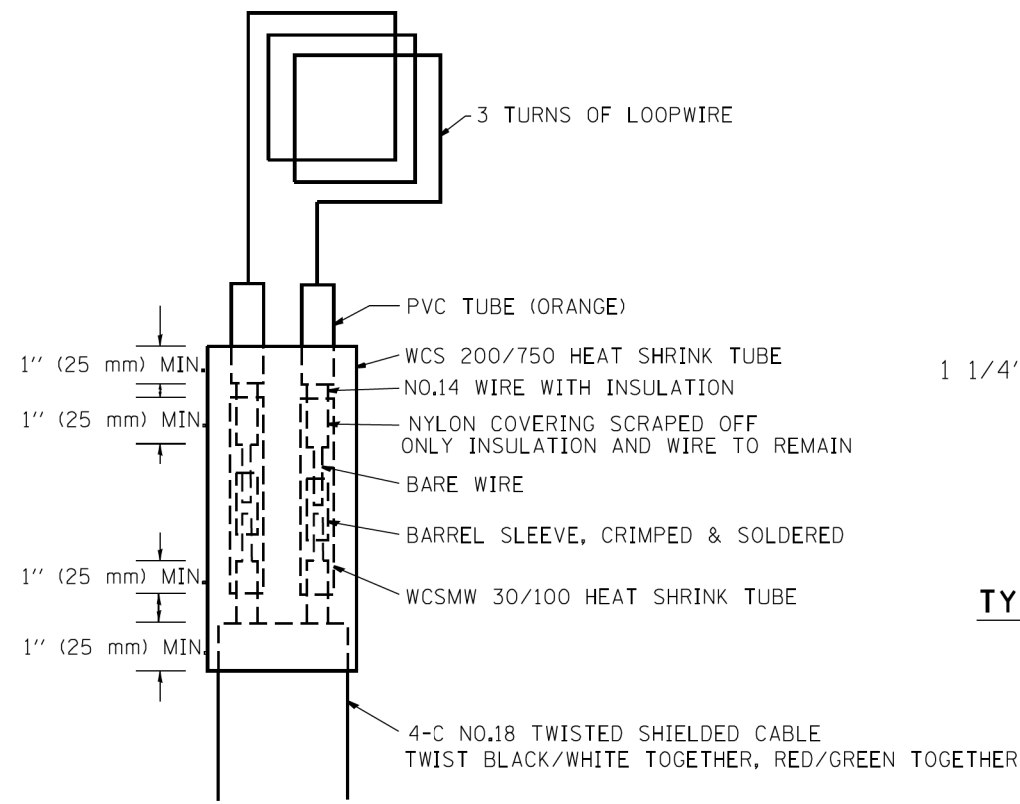
LOOP SPLICING REQUIREMENTS

NOTES

1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150FT. (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
3. LOOPS SHALL NOT BE SPLICED IN SERIES.
4. EACH LOOP LEAD IN SHALL BE IDENTIFIED AND PERMANENTLY COLOR CODED IN THE COREHOLE, HANDHOLE & CABINETS THRU WHICH THEY ENTER OR PASS AND TAGGED WITH THE CORRECT NOMENCLATURES.

1 SHEET ADDED 4-10-2019

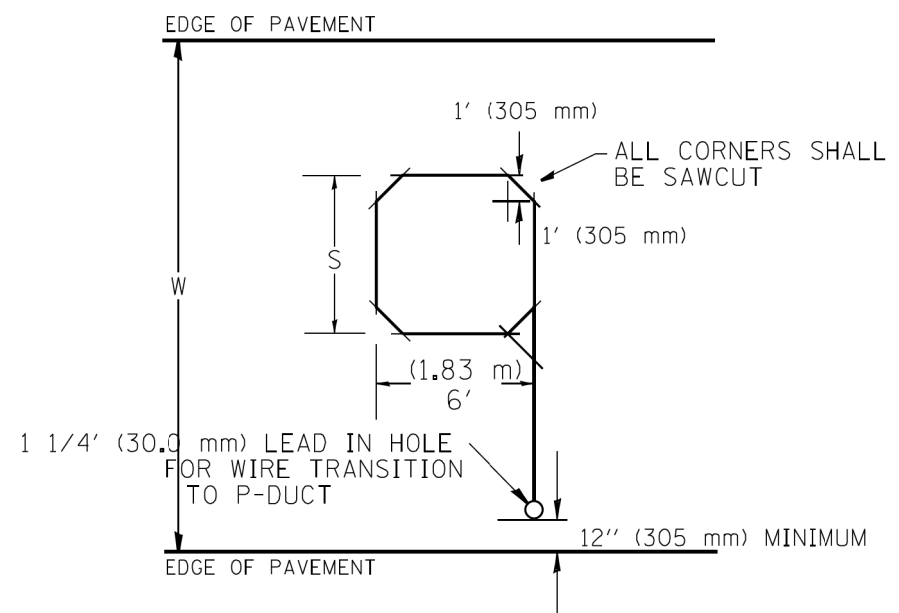
FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 6/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	EXISTING ROUND INDUCTION LOOP TYPICALS			F.A. RTE. 346	SECTION 2018-51-R56CR	COUNTY LAKE	TOTAL SHEETS 31	SHEET NO. 31B
DRAWN - G.M.	REVISOR - 10/96	CHECKED - R.L.	REVISED - R.L. 03/2011					CONTRACT NO. 62G96				
PLOT SCALE = 100.0000' / 1in.	DATE - 6-22-94	DATE - 6-22-94	REVISED -					FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
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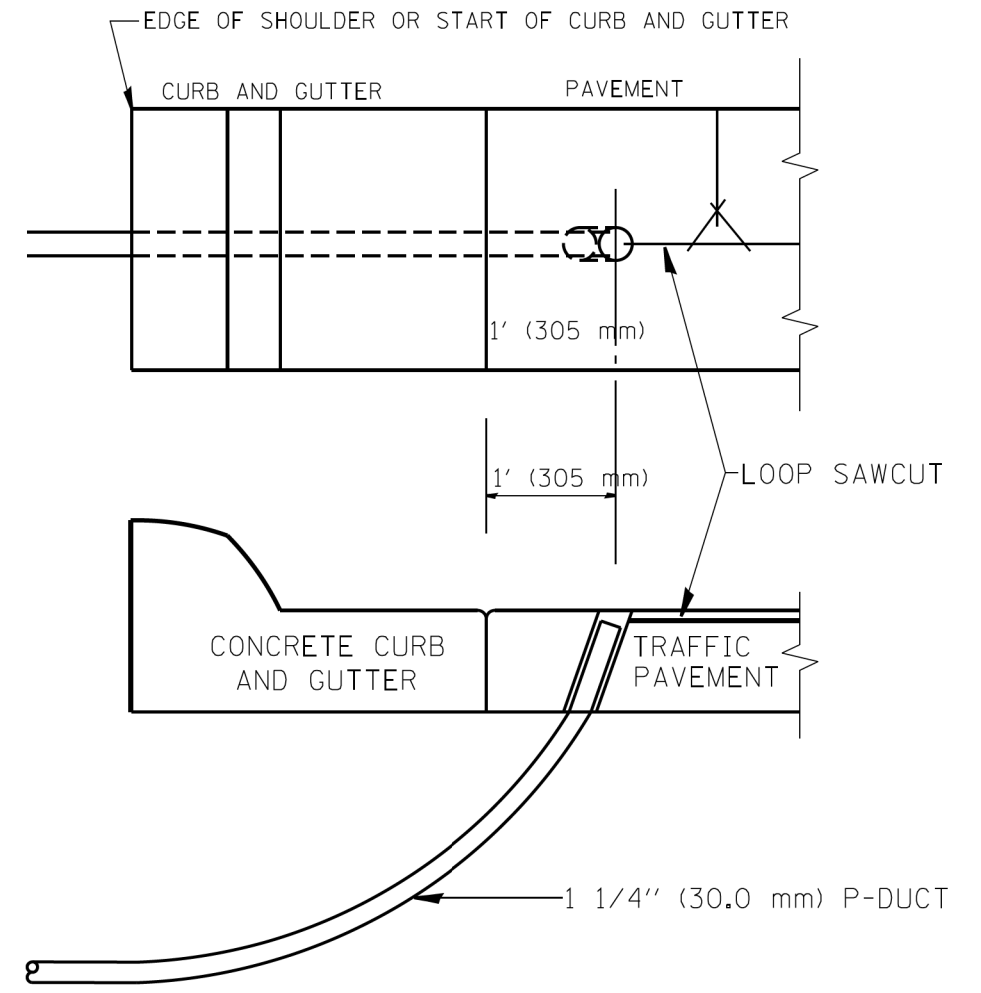
MINIMUM 1" (25 mm) HEAT SHRINK TUBING OVERLAP ON WIRE, PVC & SHIELDED CABLE TO FORM WATER TIGHT SEAL

LOOP SPLICING REQUIREMENTS

TABLE 1	
WIDTH (W)	WIDTH (S)
12' (3.7 m)	8' (2.5 m)
13' (4.0 m)	9' (2.8 m)
14' (4.3 m)	10' (3.1 m)
15' (4.6 m)	11' (3.4 m)
16' (4.9 m)	12' (3.7 m)
17' (5.2 m)	13' (4.0 m)
18' (5.5 m)	14' (4.3 m)
19' (5.8 m)	15' (4.6 m)
20' (6.1 m)	18' (4.9 m)
21' (6.4 m)	17' (5.2 m)
22' (6.7 m)	18' (5.5 m)
23' (7.0 m)	19' (5.8 m)
24' (7.3 m)	20' (6.1 m)
25' (7.6 m)	21' (6.4 m)



TYPICAL "S" FT. BY 6' (1.83 m) INDUCTION LOOP SAWCUT LAYOUT FOR RAMPS



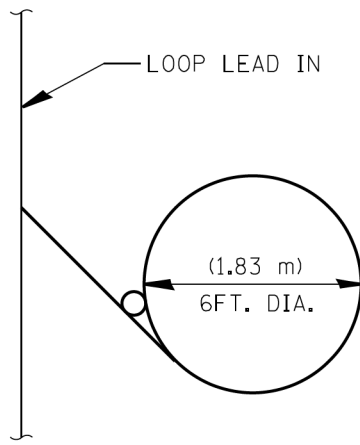
CURB AND GUTTER LOOP LEAD-IN TRANSITION DETAIL

NOTES

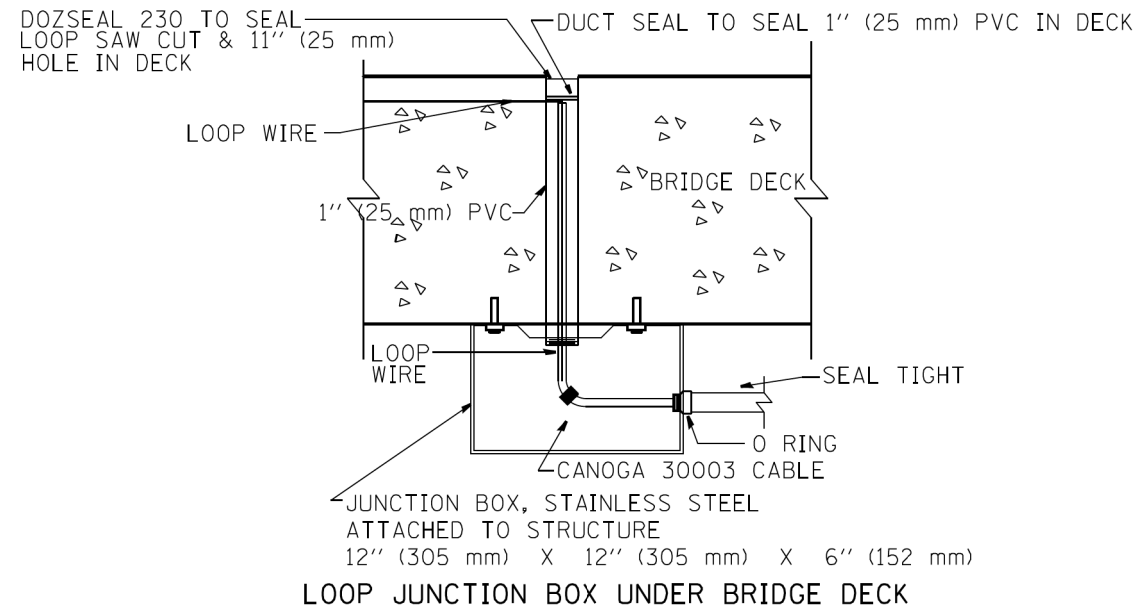
1. EACH LOOP SHALL BE SPLICED TO A 4-C NO.18 TWISTED SHIELDED LEAD IN WHEN 150' (45 m) OR MORE FROM CABINET.
2. LOOPS SHALL BE SPLICED IN HANDHOLES ONLY, OTHERWISE WRITTEN PERMISSION SHALL BE OBTAINED FROM TSC ENGINEER.
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△ SHEET ADDED 4-10-2019

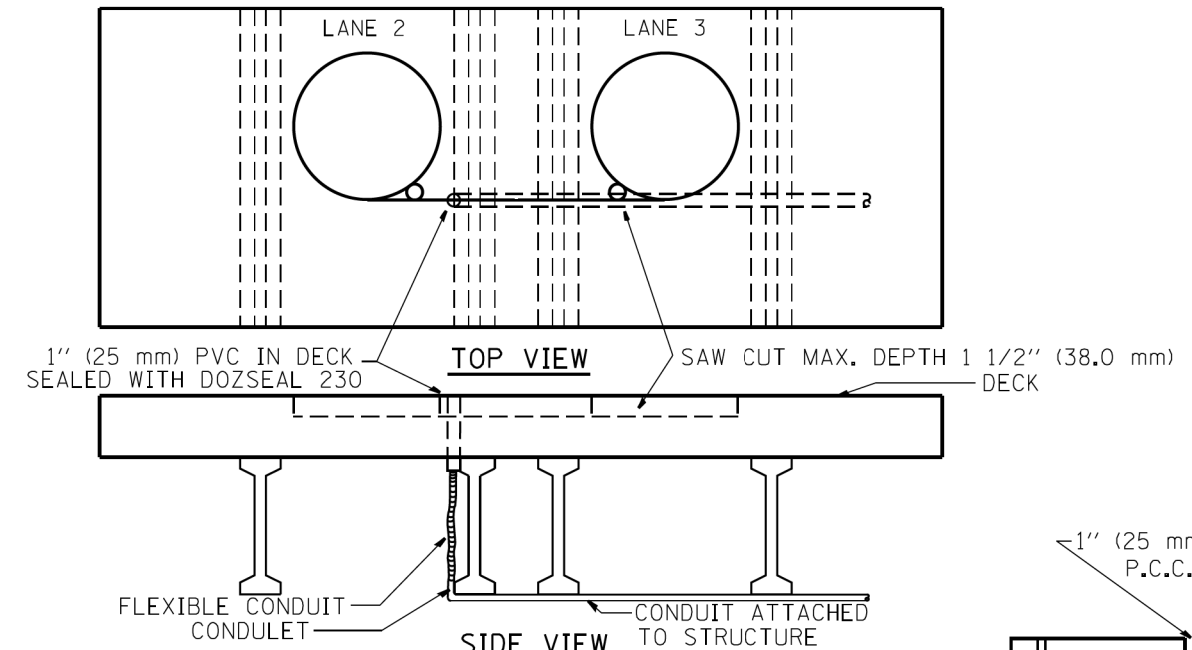
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DRAWN - G.M.	CHECKED - R.L.	REVISED - 11/95	REVISED - 05/96		SCALE: NONE	SHEET NO. OF SHEETS	STA. TO STA.	CONTRACT NO. 62G96				
PLOT SCALE = 100.0000' / in.	DATE - 6-22-94	REVISED - 10/96			FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT							
PLOT DATE = 5/17/2012					TRAFFIC SYSTEMS CENTER (TY-1TSC-418#3)							



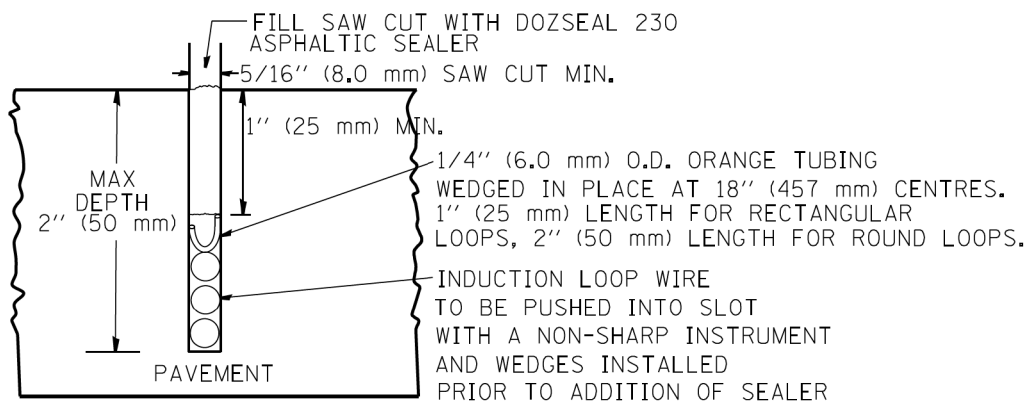
TYPICAL LOOP SAWCUT LAYOUT



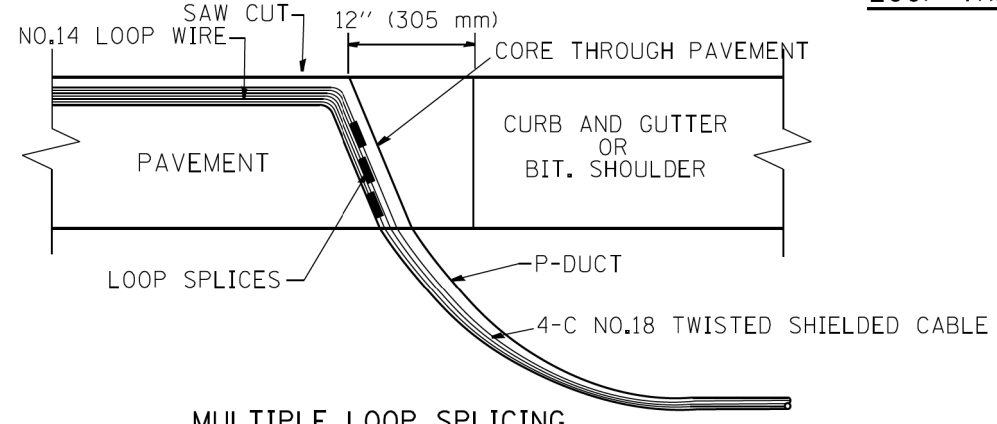
LOOP JUNCTION BOX UNDER BRIDGE DECK



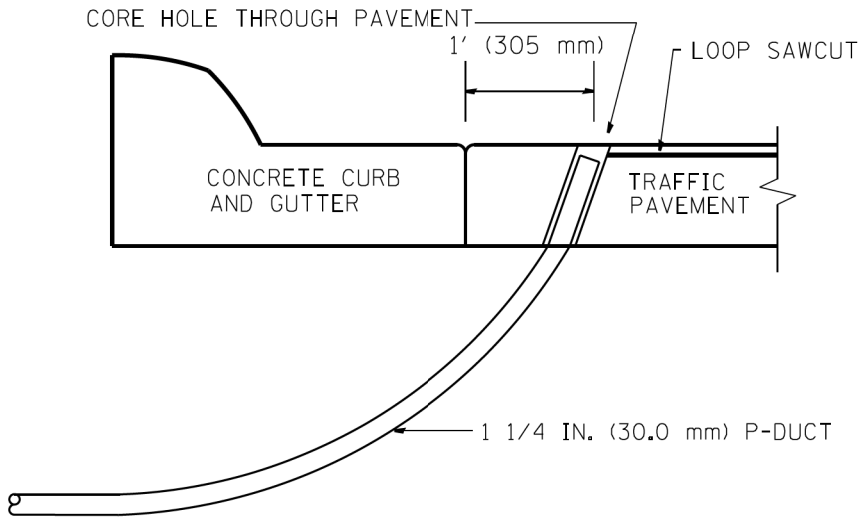
LOOP TRANSITION IN BRIDGE DECK



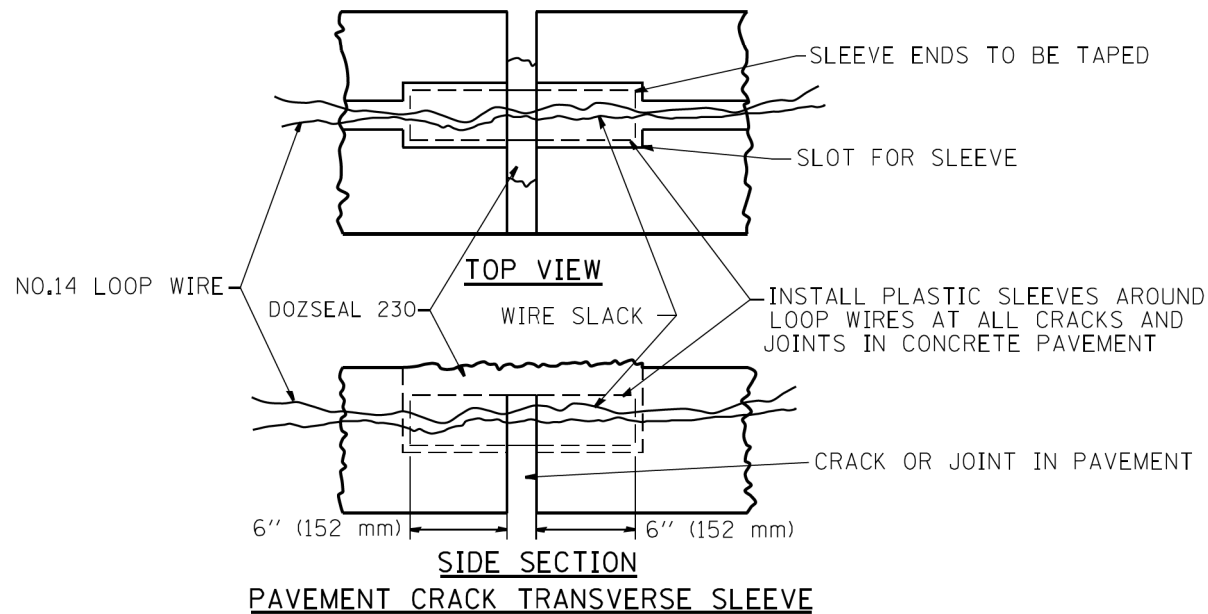
LOOP CROSS SECTION IN PAVEMENT



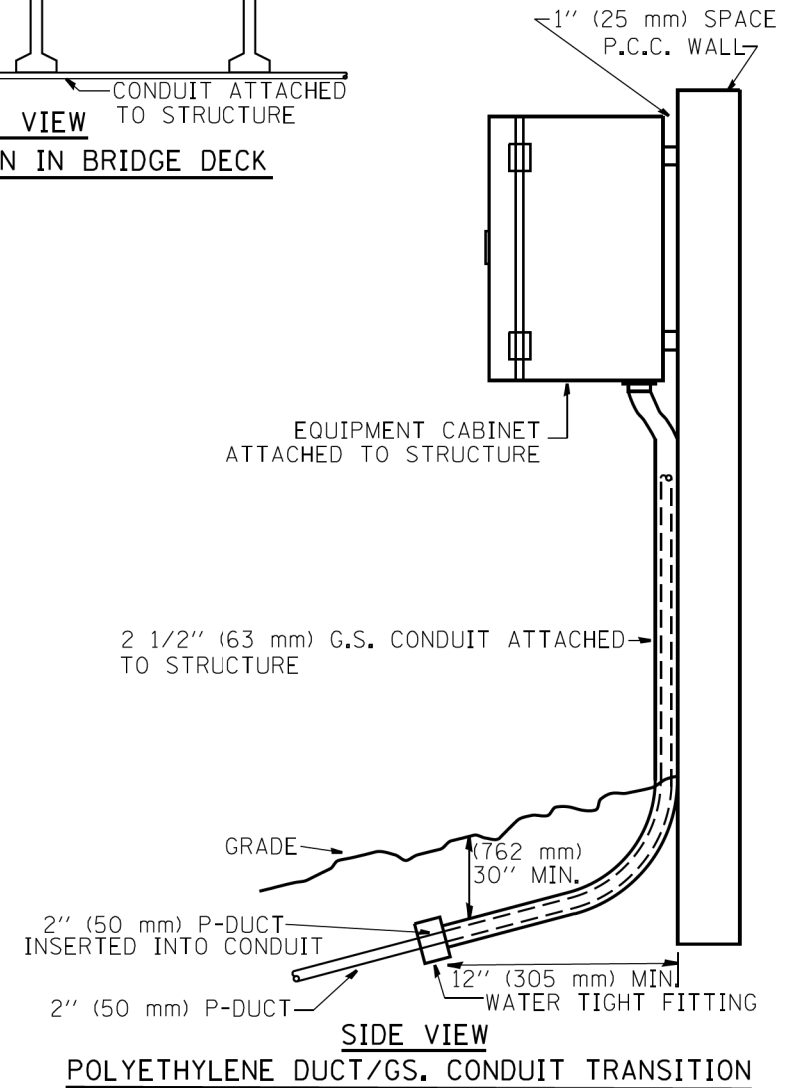
MULTIPLE LOOP SPLICING



SIDE SECTION LOOP LEAD-IN TRANSITION DETAIL



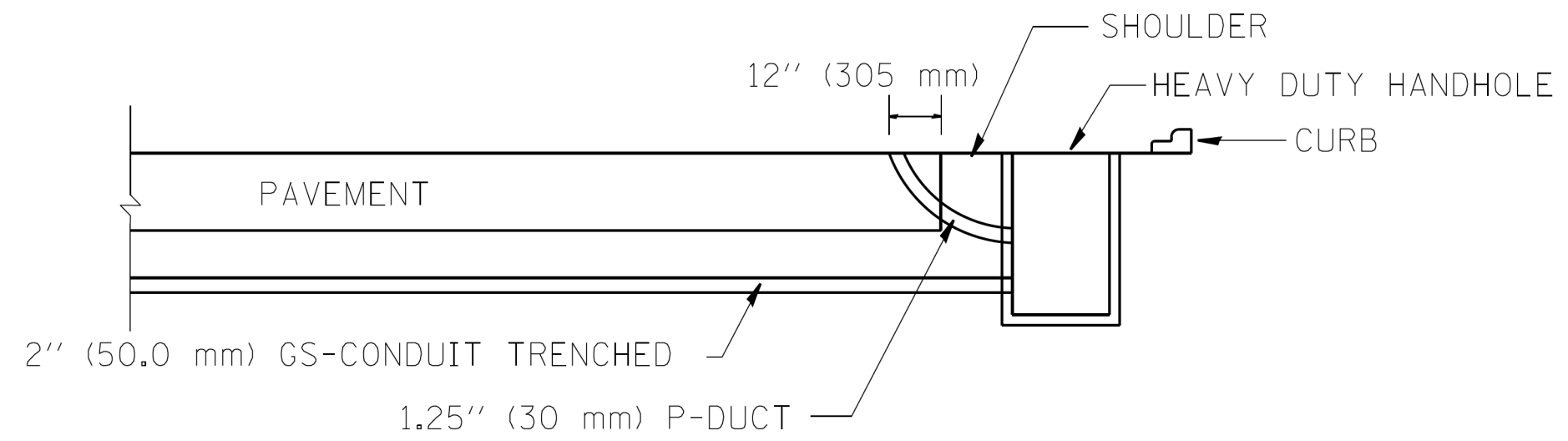
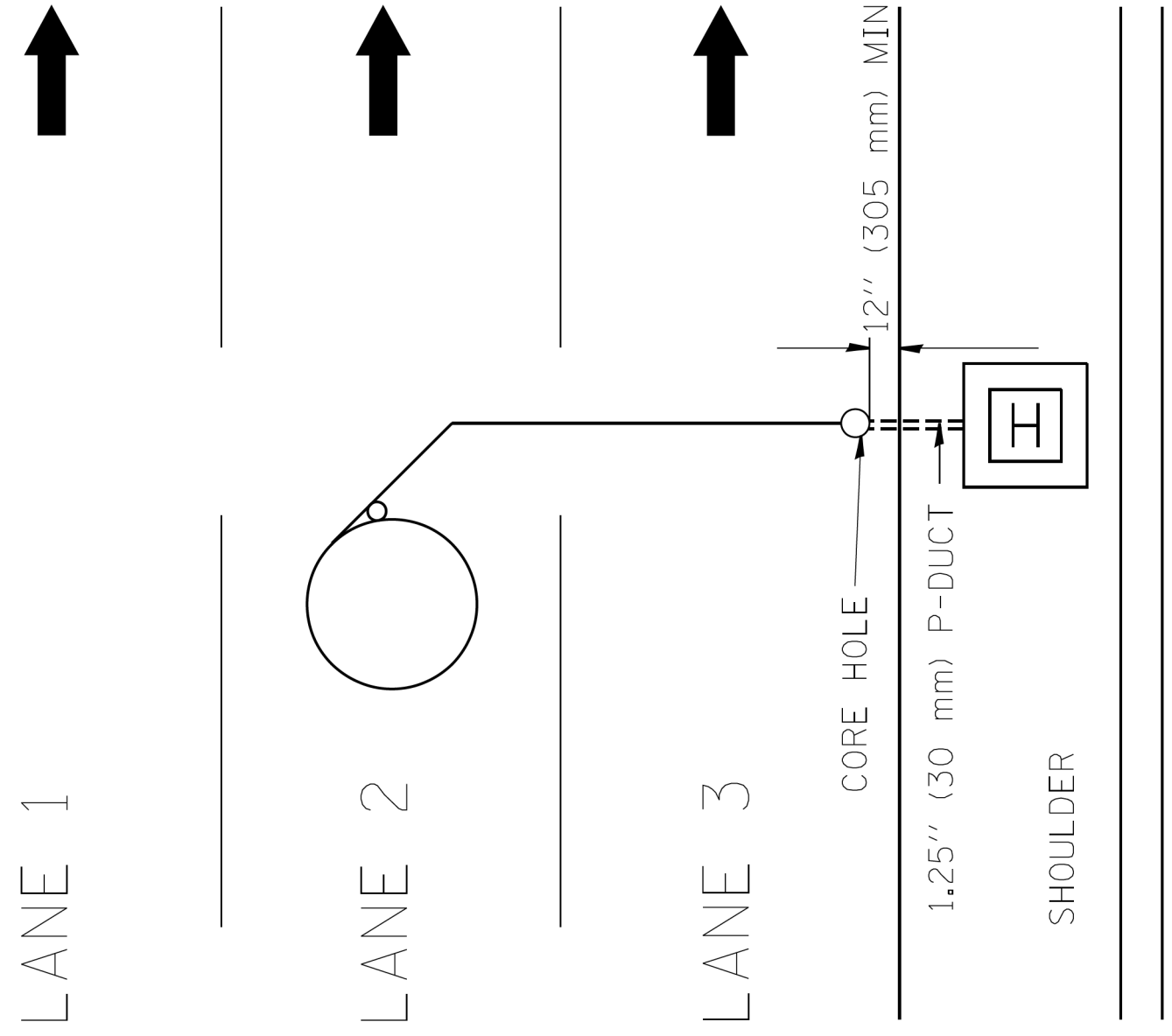
SIDE SECTION PAVEMENT CRACK TRANSVERSE SLEEVE



POLYETHYLENE DUCT/GS. CONDUIT TRANSITION

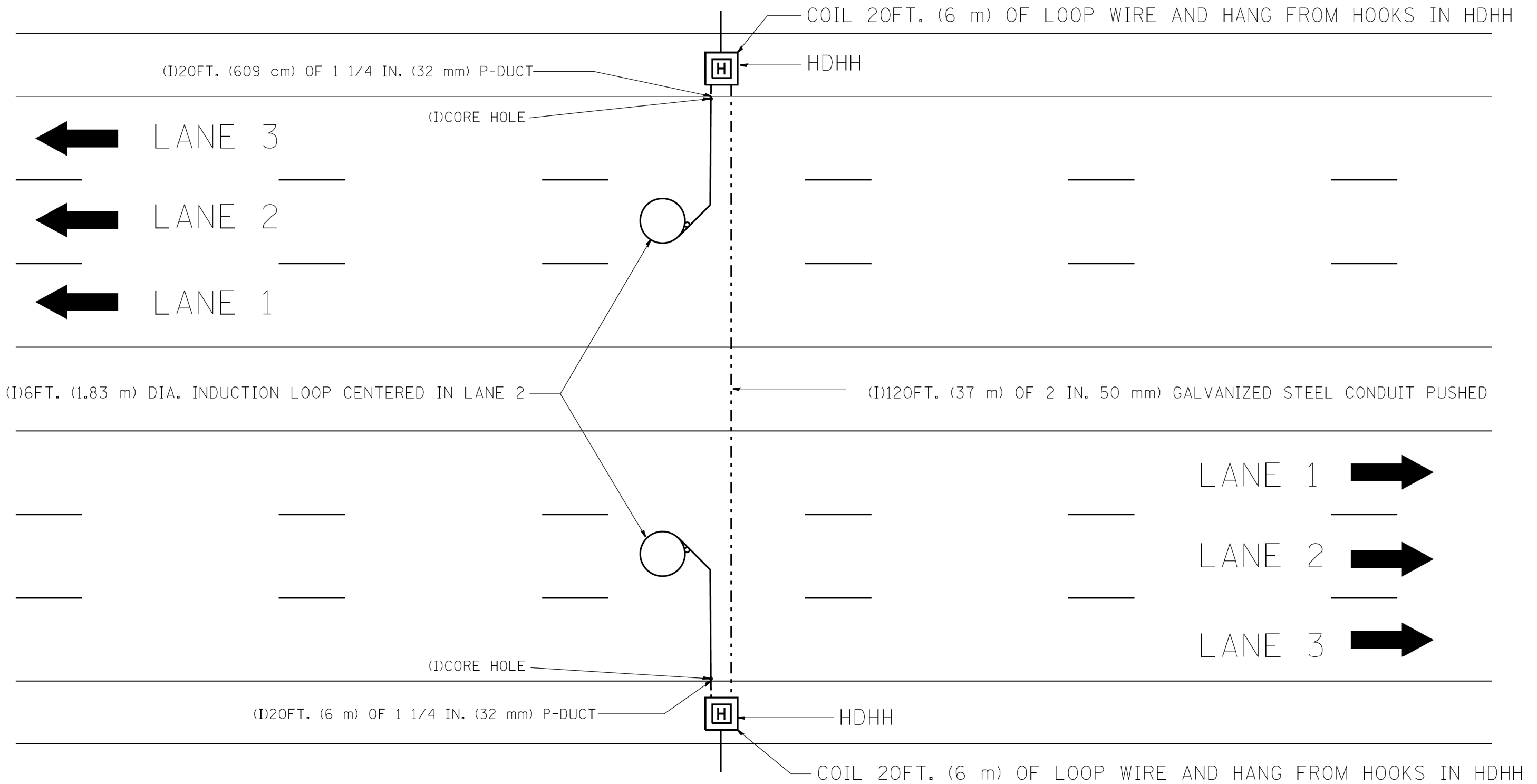
△ SHEET ADDED 4-10-2019

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - 06/94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	LOOP, CONDUIT & DUCT INSTALLATION DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\widot\mezag\d0287541\TSCYF.dgn		DRAWN - G.M.	REVISED - 03/95		SCALE: NONE	SHEET NO.	OF SHEETS	STA.	TO STA.	346	2018-51-RS&CR	LAKE	31 31D
PLOT SCALE = 100.0000' / in.		CHECKED - R.L.	REVISED - 11/95										
PLOT DATE = 5/17/2012		DATE - 06/22/94	REVISED - 10/96										
								FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT	CONTRACT NO. 62G96			



△ SHEET ADDED 4-10-2019

FILE NAME =	USER NAME = mezag	DESIGNED - R.L.	REVISED - R.L.	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	DIVE HOLE DUCT SYSTEM			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pwork\pwork\mezag\d0287541\TSCYF.dgn	DRAWN - G.M.	REVISED - T.C.	346					2018-51-R56CR	LAKE	31	31F	
PLOT SCALE = 100.0000' / in.	CHECKED - R.L.	REVISED -	CONTRACT NO. 62G96									
PLOT DATE = 5/17/2012	DATE - 11/7/95	REVISED -	FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT							



NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP.
IT SHALL NOT BE MEASURE FOR PAYMENT.

△ SHEET ADDED 4-10-2019

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED - 12-02-2010	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	ONE LANE COUNT STATION			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
cs:\pwork\widot\mezag\d0287541\TSCYF.dgn	DRAWN - G.M.	REVISED -	346					2018-51-RS&CR	LAKE	31	31G	
PLOT SCALE = 100.0000' / in.	CHECKED - J.G.	REVISED -	CONTRACT NO. 62G96									
PLOT DATE = 5/17/2012	DATE - 01-31-07	REVISED -	SCALE: NONE		SHEET NO. OF SHEETS	STA. TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT				

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

10FT. (3 m) OF 1 1/4 IN. (32 mm) (P-DUCT(TRENCHED))



LANE 3



LANE 2

2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED



LANE 1

COIL 20FT. (6M) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

(1)6FT. DIA. (1.83 m) INDUCTION LOOP CENTERED IN EACH LANE

COIL 20FT. (6M) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

LANE 1



2IN. (50 mm) GALVANIZED STEEL CONDUIT PUSHED

LANE 2



LANE 3



HDHH WITH STUB OUT 1FT. (30.48 cm) PAST EDGE OF SHOULDER

CORE HOLE

10FT. (3 m) OF 1 1/4 IN. (30.0 mm) P-DUCT(TRENCHED)

COIL 20FT. (6 m) OF LOOP WIRE AND HANG FROM HOOKS IN HDHH

NOTE:

THE COST OF LOOP WIRE IN HDHH IS INCIDENTAL TO THE INDUCTION LOOP. IT SHALL NOT BE MEASURED FOR PAYMENT.

△ SHEET ADDED 4-10-2019

FILE NAME =	USER NAME = mezag	DESIGNED - J.G.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TRAFFIC SYSTEMS CENTER	3 LANE COUNT STATION (DIFFERENT DIRECTIONS)			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\widot\mezag\d0287541\TSCYF.dgn	DRAWN - G.M.	REVISED -	346					2018-51-RS&CR	LAKE	31	31H	
PLOT SCALE = 100.0000' / 1in.	CHECKED - J.G.	REVISED -	CONTRACT NO. 62G96									
PLOT DATE = 5/17/2012	DATE - 12-02-2010	REVISED -	SCALE: NONE		SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		