04-27-2018 LETTING ITEM 049

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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## STATE OF ILLINOIS

# **DEPARTMENT OF TRANSPORTATION**

F.A.I. SECTION COUNTY TOTAL SHEET SHEET SHEETS NO.

255 60-8RS-2 MADISON 10 1 1

D-98-010-18

ADACK GLAND

MENRY

LAKE

CARREN

CONCUMB

MACONO

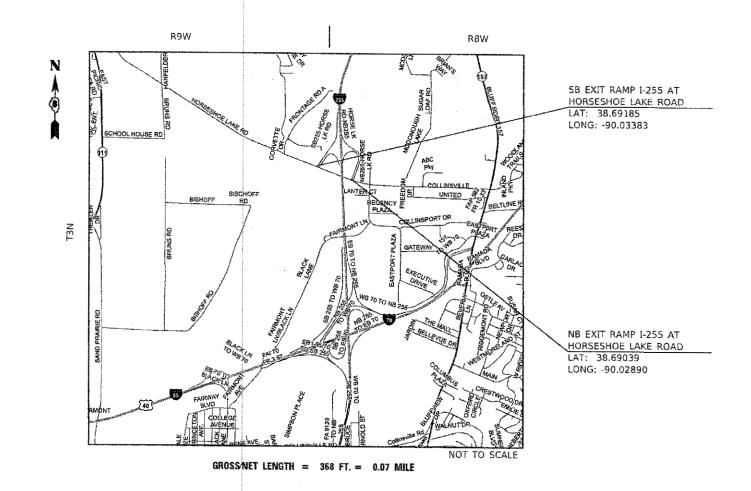
MAC

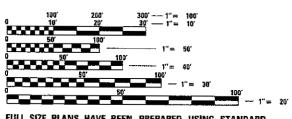
LOCATION OF SECTION INDICATED THUS: -

# PROPOSED HIGHWAY PLANS

FAI ROUTE 255 (I-255) SECTION 60-8RS-2 MILL AND FILL MADISON COUNTY

C-98-141-18



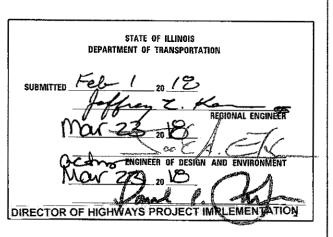


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: HERVE GELIN (618)346-3179 PROJECT MANAGER: BILLIE OWEN (618)346-3209

CONTRACT NO. 76L00



PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5 TYPICAL SECTIONS
- 6-7 RAMP DETAIL SHEETS
- 8-10 ELECTRICAL SHEETS

GENERAL NOTES

- 1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
  - \* AT&T ILLINOIS
  - \* AT&T CORPORATION
  - \* CHARTER COMMUNICATIONS, INC.
  - \* CITY OF COLLINSVILLE
  - \* SOUTHWESTERN ELECTRIC COOPERATIVE, INC.

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY \*. NON- J.U.L.I.E. MEMBERS MUST BE

- 2. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- 3. THE INTENT OF THE MILLING IS TO REMOVE THE HOT-MIX ASPHALT RESURFACING AND TO SCUFF THE UNDERLYING CONCRETE. IF THE EXISTING CONCRETE IS DETERIORATED, OR THE REBAR IS REACHED, MILLING OF THE CONCRETE SHALL STOP.
- 4. THE SHORT TERM PAVEMENT MARKING IS FOR STOP BARS AND OTHER MARKING AT THE ENGINEER'S DIRECTION.

DESIGNED -

HECKED

DRAWN

DATE

MIX CHART

JSER NAME = challandeske

PLOT DATE = 2/9/2018

MIXTURE USE	POLY SURFACE					
AC/PG	SBS PG 76-22					
RAP % (MAX)	SEE SPECIAL PROVISION					
DESIGN AIR VOIDS	4.0%@Ndes=90					
MIX COMPOSITION	IL 9.5					
(GRADATION)						
FRICTION AGG	MIXTURE "E"					
QUALITY MGMT	06.104					
PROGRAM	QC/QA					

HIGHWAY STANDARDS

000001-06 001001-02 001006 442101-08 701011-04 701451-05 701901-07 780001-05 781001-04 886001-01

> COMMITMENTS NONE

REVISED -	
REVISED -	STATE OF ILLINOIS
REVISED -	DEPARTMENT OF TRANSPORTATION
REVISED -	

SCALE:

	INDEX OF	SHEETS	HIGHW	/AY STAN	DARDS	<u> </u>	F.A.I. RTE	SEC <sup>-</sup>	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
	GENERAL NOTES AND COMMITMENTS					255	60-8	RS-2		MADISON	10	2	
GENERAL NOTES AND COMMITTIMENTS									CONTRACT	NO. 76	5L00		
	SHEET	OF	SHEETS	STA.		TO STA.			ILLINOIS	FED. AI	ID PROJECT		

CONSTR. CODE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005 URBAN
40600290	BITUMINOUS MATERIALS, (TACK COAT)	POUND	583.1	583.1
40603570	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N90	TON	109	109
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	1296	1296
44200934	CLASS B PATCHES, TYPE II, 8 INCH	SQ YD	18	18
44201299	DOWEL BARS 1 1/2"	EACH	56	56
44213200	SAW CUTS	FOOT	147	147
67100100	MOBILIZATION	L SUM	1	1
70100820	TRAFFIC CONTROL, AND PROTECTION, STANDARD 701451	L SUM	1	1
70100825	TRAFFIC CONTROL AND PROTECTION, STANDARD 701456	L SUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	42	42
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	347	347
78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	64.2	64.2
78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	877	877
78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8*	FOOT	164	164
* <	PECIALTY ITEM			

USER NAME = challandeske	DESIGNED -	REVISED -	Γ
	DRAWN -	REVISED -	į
PLOT SCALE = 100.0000 ' j in.	CHECKED -	REVISED -	ĺ
PLOT DATE = 2/9/2018	DATE -	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

		;	SUMI	VIAF	RY OF Q	UANTIT	IES	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
								255	60-8RS-2	MADISON	10	3
										CONTRACT	NO. 70	5L00
SCALE:	SHEET	1	OF	2	SHEETS		TO STA.		ILLINOIS FED. A	AID PROJECT		

CONSTR. CODE

CODE			TOTAL	ROADWAY
NO.	ITEM	UNIT	QUANTITY	URBAN
78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	64	64
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	12	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	12	12
80300100	LOCATING UNDERGROUND CABLE	FOOT	100	100
88600600	DETECTOR LOOP REPLACEMENT	FOOT	690	690
X7015005	CHANGEABLE MESSAGE SIGN	CAL DAY	40	40
	· · · · · · · · · · · · · · · · · · ·			

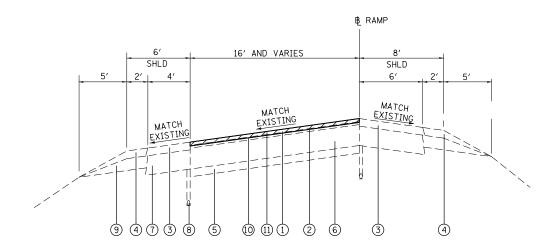
USER NAME = challandeske DESIGNED -REVISED -DRAWN REVISED -CHECKED DATE PLOT SCALE = 100.0000 ' f in. REVISED -PLOT DATE = 2/9/2018 REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES SCALE: SHEET 2 OF 2 SHEETS STA.

TO STA.

F.A.I. RTE. 255 SECTION 60-8RS-2



### I-255 EXIT RAMPS AT HORSESHOE LAKE RD.

#### LEGEND

- ① EXISTING POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2" AND VARIES
- 2 EXISTING POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80, 2" (LOWER LIFT)
- (3) EXISTING HOT-MIX ASPHALT SHOULDERS, 4" AND VARIES
- 4 EXISTING AGGREGATE SHOULDERS, TYPE B, VARIES 4" TO 0"
- 5 EXISTING STABILIZED SUB-BASE 4"
- 6 EXISTING PCC PAVEMENT 8" (REINFORCED)
- 7 EXISTING HOT-MIX ASPHALT SHOULDER 8"
- 8 EXISTING PIPE UNDERDRAINS 4"
- EXISTING AGGREGATE SHOULDERS TYPE B
- 10 PROPOSED BITUMINOUS MATERIALS (TACK COAT)
- $\widehat{\text{11}}$  POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, N70  $1\frac{1}{2}$ "

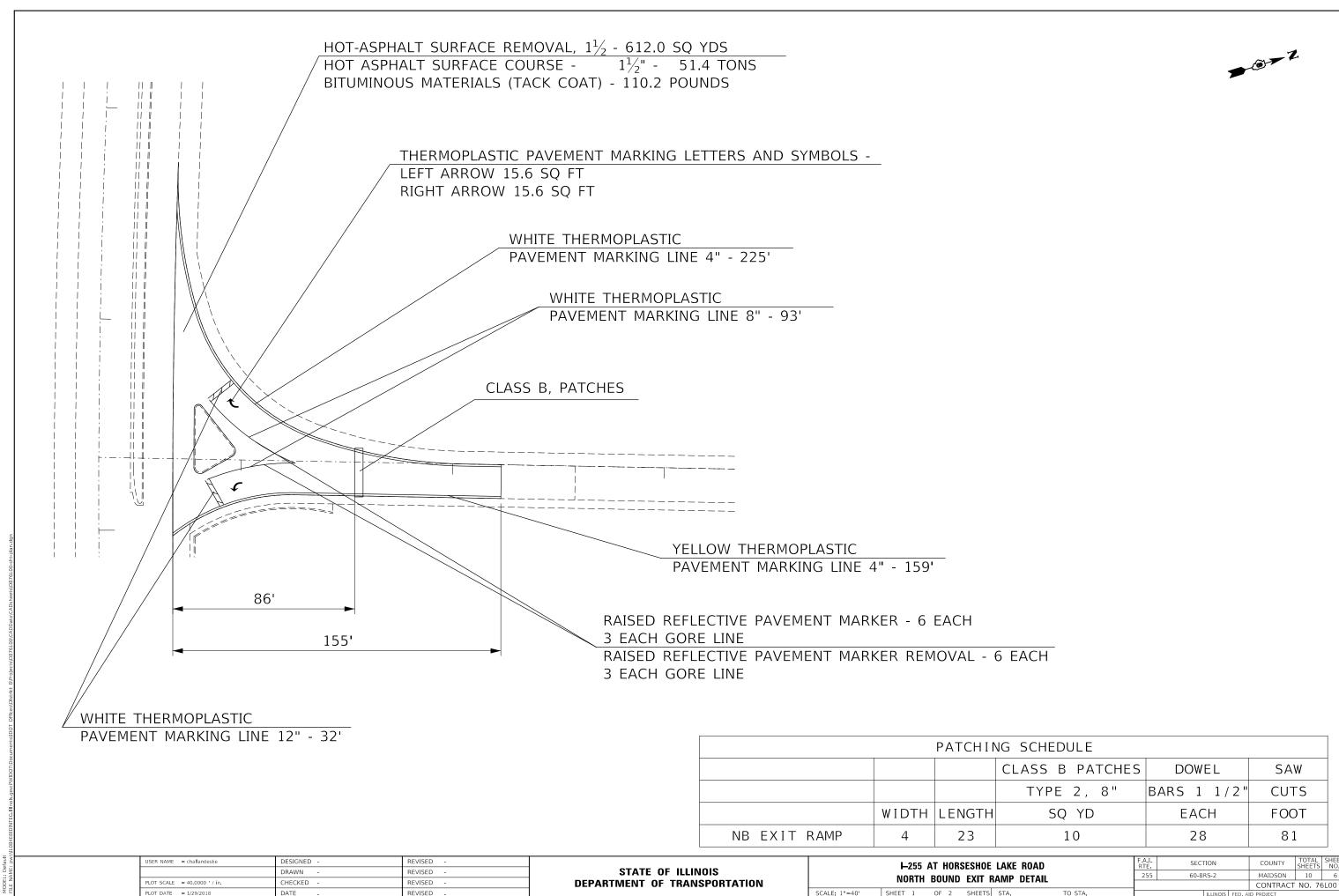
PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 11/2"

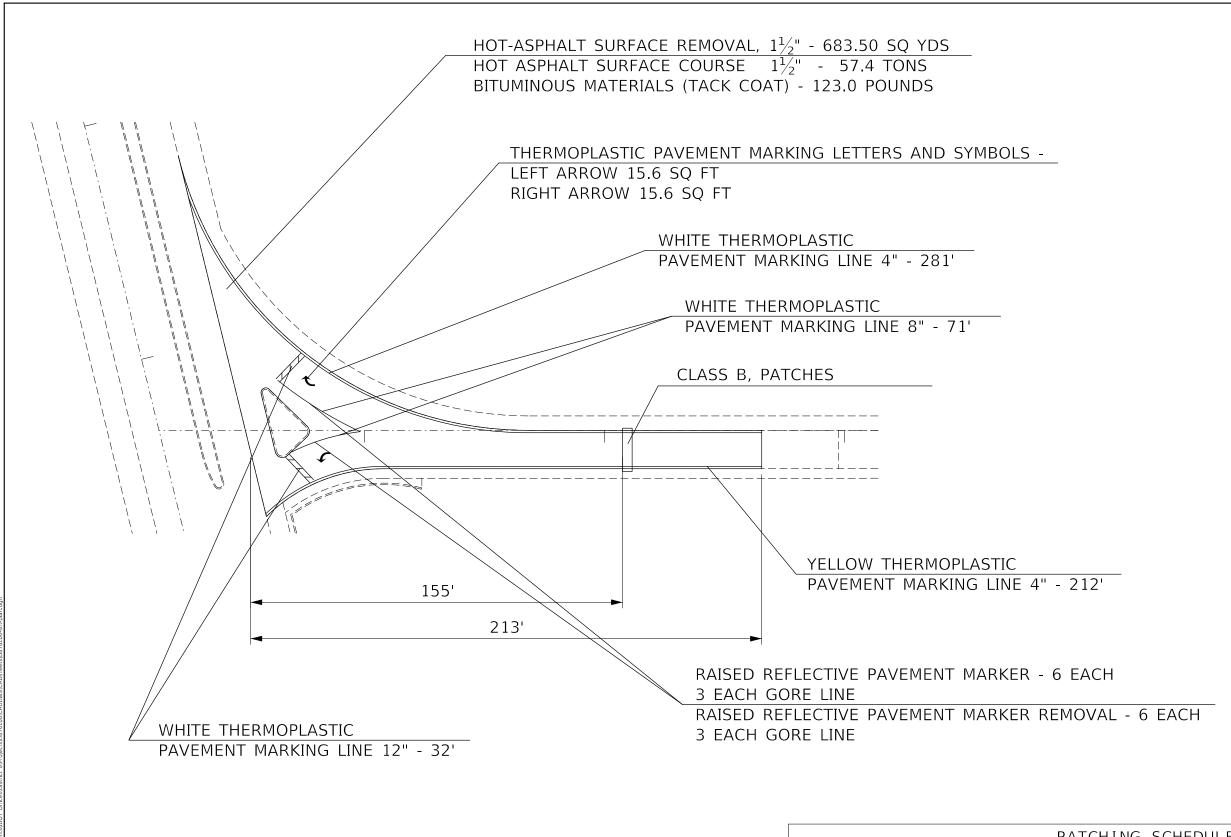
THIS HMA SURFACE REMOVAL MAY BE COMPRISED OF A MIX OF HMA AND CONCRETE SURFACE REMOVAL DUE TO THE VARYING DEPTH OF THE EXISTING HMA SURFACE OVER THE PCC PAVEMENT.

JSER NAME = challandeske DESIGNED -REVISED -DRAWN REVISED CHECKED REVISED PLOT DATE = 2/9/2018 DATE REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

SECTION TYPICAL SECTIONS MADISON 10 5 255 60-8RS-2 CONTRACT NO. 76L00 SCALE: NONE SHEET OF SHEETS STA. TO STA.





PATCHING SCHEDULE											
			CLASS B PATCHES	DOWEL	SAW						
			TYPE 2, 8"	BARS 1 1/2"	CUTS						
	WIDTH	LENGTH	SQ YD	EACH	FOOT						
SB EXIT RAMP	4	18	8	28	66						

OSEK NAME = Chanandeske	DESIGNED -	NEVISED -	
	DRAWN -	REVISED -	STATE OF ILLIN
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANS
PLOT DATE = 1/29/2018	DATE -	REVISED -	

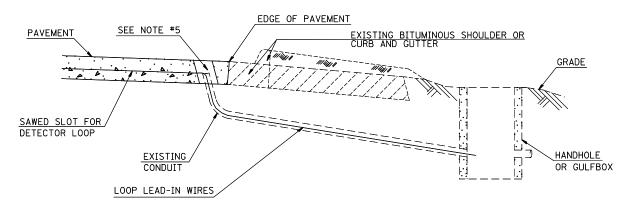
0F	ILLINOIS	
)F T	TRANSPORTATION	

SCALE: 1"=40'

I-255 SOUTHBOUND EXIT RAMP DETAIL						SEC <sup>-</sup>	TION		COUNTY	TOTAL SHEETS	SHEET NO.
					255	60-8	RS-2		MAIDSON	10	7
									CONTRACT	NO. 76	5L00
SHEET 2	OF 2	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.

SCHEDIHE OF CHANTITIES		TOTAL	I-255 &	I-255 &
SCHEDULE OF QUANTITIES	TOTAL	Horseshoe Lake	Horseshoe Lake	
CODE NO ITEM	UNIT	QUANTITIES	Rd SB EXIT RAMP	Rd NB EXIT RAMP
80300100 LOCATING UNDERGROUND CABLE	FOOT	100	30	70
88600600 DETECTOR LOOP REPLACEMENT	FOOT	690	335	354



#### DETAIL A (NO SCALE)

## INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

- 1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
- 2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
- 3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
- 4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
- 5. FILL HOLE WITH APPROVED SEALER. PREVENT SEALER FROM ENTERING INTO CONDUIT.
- 6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM. THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

#### DETECTOR LOOP REPLACEMENT LEGEND

[\_\_\_\_\_\_ EX. DETECTOR LOOP

EX. TRAFFIC SIGNAL CONTROLLER

EXISTING CONDUIT

SCALE: N/A

PROPOSED DETECTOR LOOP

USER NAME = challandeske	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	İ
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	İ
PLOT DATE = 1/29/2018	DATE -	REVISED -	

STATE OF ILLINOIS
<b>DEPARTMENT OF TRANSPORTATION</b>

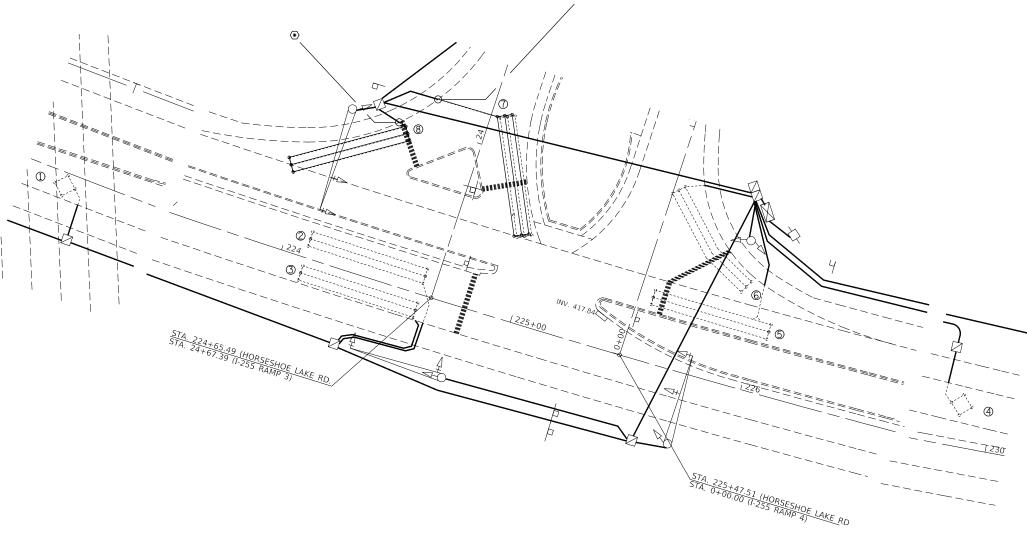
GENERAL NOTES, SCHEDULE OF QUANTITIES,					F.A.I. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.	
					255	60-8	60-8RS-2			10	8	
DETAIL AND LEGEND										CONTRACT	NO. 70	5L00
SHEET	1 0	- 3	SHEETS	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

LOOP#	PHASE # (Φ)	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB CCO	6	6' x 6'	6	256.4	0.4
2. EBLT CD	1	6' x 50' (Q)	3-6-3	789.8	1.7
3. EB THRU CD	6	6' x 50' (Q)	3-6-3	786.4	1.6
4. WB CCO	2	6' x 6'	6	256.9	0.4
5. WB THRU CD	2	6' x 50' (Q)	3-6-3	788.9	1.7
6. WBRT-CD	2	6' x 50' (Q)	3-6-3	787.8	1.6
7. SBLT CD	8	6' x 50' (Q)	3-6-3	791.9	1.7
8. SBRT CD	8	6' x 50' (Q)	3-6-3	786.7	1.6

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE

\* =SEE DETAIL "A"



USER NAME = challandeske	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -
PLOT DATE = 1/29/2018	DATE -	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

NORTHBOUND EXIT RAMP	F.A.I. SECTION			COUNTY	TOTAL SHEETS	SHEI	
DETECTOR LOOP REPLACEMENT	255	60-8RS-2			MAIDSON	10	9
					CONTRACT	NO. 76	5L00
SCALE: 1"=40"   SHEET 2 OF 3 SHEETS STA. TO STA.			ILLINOIS	FED. A	ID PROJECT		

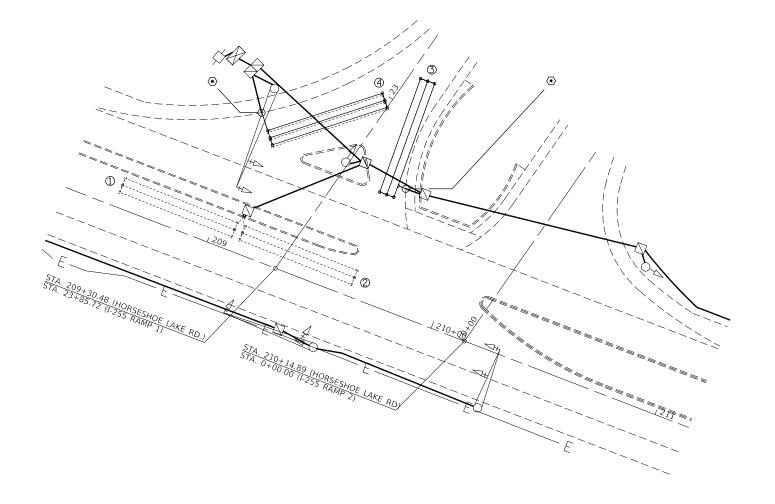
MODEL: Default FILE NAME: pw:\\IL084E

LOOP#	PHASE # (Φ)	LOOP SIZE (FT. X FT.)	REQUIRED # OF TURNS	CALCULATED INDUCTANCE MICROHENRIES (µH)	CALCULATED RESISTANCE OHMS (Ω)
1. EB LT CD	1	6' x 50' (Q)	3-6-3	786.8	1.6
2. EB LT CD	1	6' x 50' (Q)	3-6-3	786.8	1.6
3. SB LT CD	8	6' x 50' (Q)	3-6-3	786.6	1.6
4. SB RT CD	8	6' x 50' (Q)	3-6-3	787.9	1.6

THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

Q=QUADRAPOLE





SCALE: 1"=40"

USER NAME = challandeske	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 40.0000 / in.	CHECKED -	REVISED -	
PLOT DATE = 1/29/2018	DATE -	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	SOUTHBOUND EXIT RAMP					F.A.I. RTE				COUNTY	TOTAL SHEETS	SHEE' NO.		
DETECTOR LOOP REPLACEMENT					255	60-8RS-2			MAIDSON	10	10			
	DETECTOR EOOF HEI EAGENIENT									CONTRACT	NO. 70	5L00		
	SHEET	3	OF 3	SHEETS	STA.	T	O STA.	ILLINOIS FED A			FED. A	ID PROJECT		

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MODEL: Default