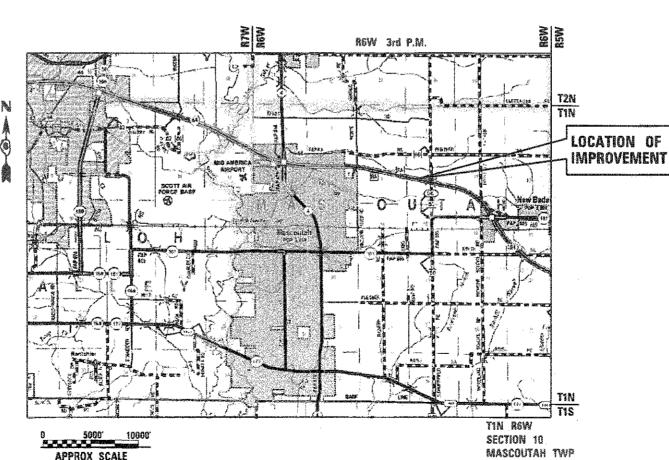
## STATE OF ILLINOIS

**DEPARTMENT OF TRANSPORTATION** 

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 64 (I-64) **SECTION 82-9 WIMDCS 2018-1** PROJECT NO.: NHPP-Y9AP (709) WEIGH-IN-MOTION DATA **COLLECTION SYSTEM** ST. GLAIR COUNTY

C-98-134-18



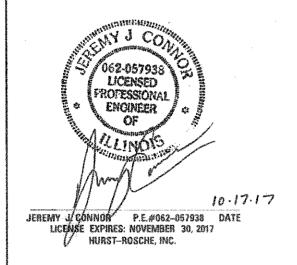
GROSS LENGTH = 180.00 FT. = 0.034 MILE

### INDEX OF SHEETS

- COVER SHEET
- STANDARDS, GENERAL NOTES, COMMITMENTS AND TYPICAL SECTION
- SUMMARY OF QUANTITIES
- PLAN
- 5-11 SCALE DETAILS



HURST-ROSCHE, INC. HILLSBORO, ILLINOIS 62049





ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

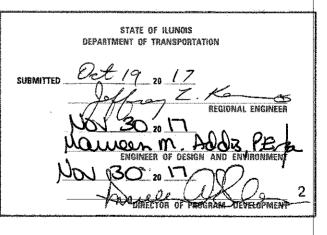
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER-HERVE GELIN-(618) 346-3179 PROJECT MANAGER-CRAIG S POETTKER, (618) 346-3279 SQUAD LEADER-MICHAEL PRESTON-(618) 346-3143

CONTRACT NO. 76K61

ST CLAIR II 82-9 WIMDES 2018-1 CONTRACT NO. 76K61 0-98-092-17





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

280001-07 TEMPORARY EROSION CONTROL SYSTEMS
701101-05 OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE

701106–02 OFF–RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY 701400–09 APPROACH TO LANE CLOSURE, FREEWAY /EXPRESSWAY

701401–11 LANE CLOSURE, FREEWAY /EXPRESSWAY

701428-01 TRAFFIC CONTROL, SETUP AND REMOVAL, FREEWAY /EXPRESSWAY

701901–07 TRAFFIC CONTROL DEVICES

805001-01 ELECTRICAL SERVICE INSTALLATION DETAILS

LIST OF APPLICABLE HIGHWAY STANDARDS

814001-03 HANDHOLE

### **COMMITMENTS**

NO COMMITMENTS HAVE BEEN MADE FOR THIS PROJECT.

# 

### WB - TANGENT SECTION

STA 1283+00 TO STA 1290+00

EB - TANGENT SECTION
STA 1283+00 TO STA 1290+00

### **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 JULLIE. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:
- CHARTER COMMUNICATIONS • CLINTON COUNTY/ELECTRIC CO-OP • FRONTIER COMMUNICATIONS (SOUTH) • VILLAGE OF NEW BADEN

  ARRY SCHMIDT BOB KROEGER 618-416-4685×47058 618-526-7282 KALIN HINSHAW 815-895-1515 RONALD RENTH

  618-416-4685×47058 618-51515

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

- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES.
- 3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 4. DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT EIGHT TRAFFIC CONTROL SUPERVISIOR AT (618)346-3283 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

### LEGEND

- (1) SUB-BASE, 4"
- 2 C.R.P.C.C. PAVEMENT, 8"
- (3) RESURFACING, 6 1/2" OR 8 1/4"
- 4 BITUMINOUS SHOULDER
- 5) AGGREGATE SHOULDER, TYPE B
- 6) PIPE UNDERDRAIN
- (7) HMA BINDER COURSE, IL-19.0, N105, 2 1/4"
- (8) POLYMERIZED HMA BINDER COURSE, N150, 2 1/4"
- 9 POLYMERIZED HMA SURFACE COURSE,
- STONE MATRIX ASPHALT N80, 2"
- (10) HMA SHOULDER
- AGGREGATE SHOULDER WEDGE, TYPE 8



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REVISED - MJS 11-20-2017 TOTAL SHEET NO. FILE NAME = DESIGNED - JJC FAI 64 (I-64) WEIGH-IN-MOTION DATA COLLECTION SYSTEM USER NAME = prestonme SECTION COUNTY \\ILØ84EBIDINTEG.: nents\IDOT Offices\District 8\Projects\D87**;KBRAWN**Data\EADs**(A)**ets\D876K61-sht-ele REVISED -STATE OF ILLINOIS STANDARDS, GENERAL NOTES, COMMITMENTS 64 82-9 WIMDCS 2018-1 ST. CLAIR CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** PLOT SCALE = 100.0000 '/ in. - GR AND TYPICAL SECTION CONTRACT NO. 76K61 SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS STA. TO STATO STA. PLOT DATE = 8/7/2017 DATE - 6-30-17 REVISED -

# SUMMARY OF QUANTITIES

				CONSTR. CODE 90% FED. 10% STATE ROADWAY
CODE NO.	ITEM	UNIT	TOTAL     QUANTITY	URBAN
1101				21.27.27
67100100	MOBILIZATION	LSUM	1	1
70100205	TRAFFIC CONTROL AND PROTECTION, STANDARD 701401	EACH	2	2
80500100	SERVICE INSTALLATION, TYPE A	EACH	1	1
81028340	UNDERGROUND CONDUIT, PVC, 1 1/2" DIA.	F00T	170	170
81702400	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 2	F00T	188	188
81702441	ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 2-12/C, 1-12/C GROUND	F00T	66	66
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25	0.25
Z0026290	FURNISHING AND INSTALLING WEIGH-IN- MOTION COMPONENTS	LSUM	1	1

HUNS I - HUSCHE, INC. ILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 JOB NO. 180-2356

Hurst-Rosche, Inc.

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inst	•	PLOT SCALE = 100.0000 '/ in.	CHECKED - GR	REVISED - DEPARTMENT OF TRANSPORTATION			CONTRAC	CT NO. 76K	61	
II		PLOT DATE = 8/7/2017	DATE - 6-30-17	REVISED -	·	SCALE: NO SCALE SHEET NO. 1 OF 1 SHEETS ( STA. TO STA.	FED. ROAD DIST. NO. 8 (ILLINOIS FED. A	ND PROJECT		

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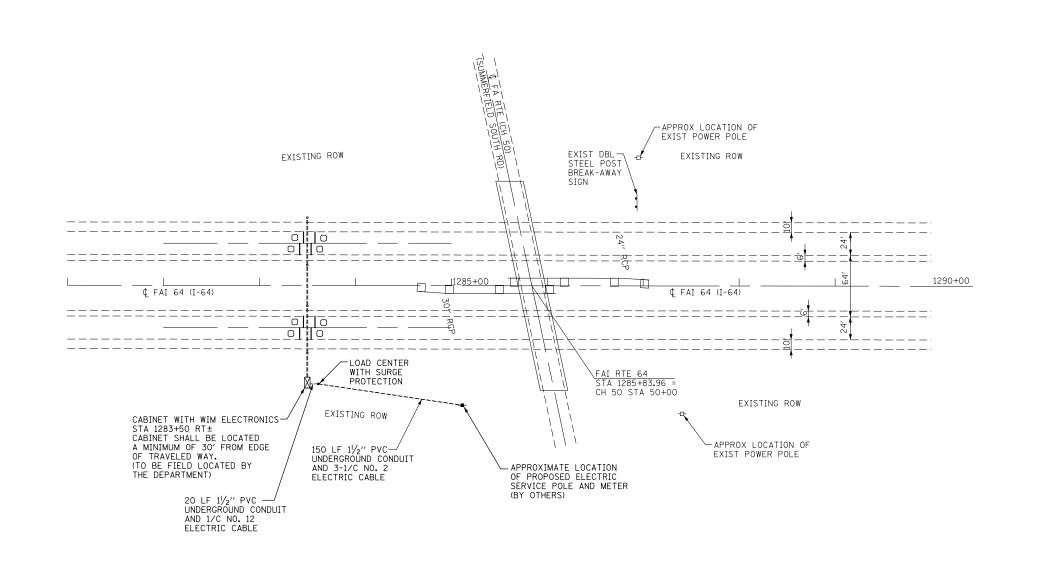
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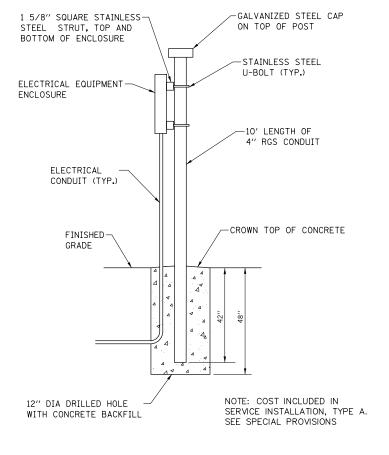
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NOTE: PLAN VIEW TAKEN FROM PLANS FOR CONTRACT NO. 76855

COUNTY SHEETS NO.

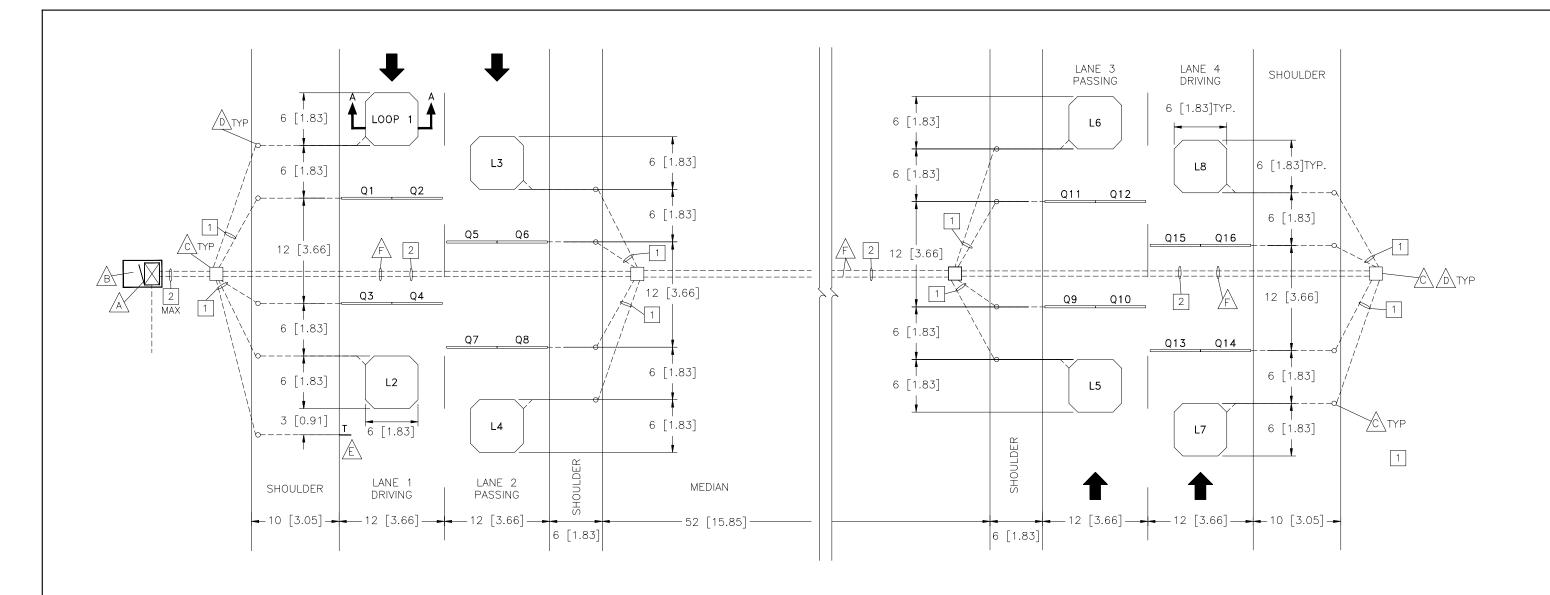
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### **GENERAL NOTES:**

ALL CONNECTIONS BETWEEN SENSORS AND LEAD CABLES ARE DONE IN HAND HOLE AND ARE SOLDERED THEN SEALED FOR WATERPROOFING, NUMBER AND PLACEMENT OF HAND HOLES NOT SHOWN.

POWER CABLES MUST BE RUN IN SEPARATE CONDUITS/HAND HOLES FROM SIGNAL CABLES.

SENSOR SPACING SHOWN IS TYPICAL SPACING REQUIREMENT. ACTUAL SENSOR SPACING MAY BE ALTERED TO SUIT SITE CONDITIONS BY THE MANUFACTURE'S FIELD REPRESENTATIVE.

ROAD SERVICE MUST MEET ASTM E1318 REQUIREMENTS TO ACHIEVE OPTIMAL SYSTEM.

CABLES MUST BE PROTECTED BY PVC SLEEVES WHERE THEY CROSS PAVEMENT. JOINTS/CRACKS.

TEMPERATURE SENSOR MUST BE INSTALLED AS SHOWN ON DRAWING.

MANUFACTURER RECOMMENDS THAT HAND HOLES BE NO FURTHER THAN 200' (61m) APART. MANUFACTURE RECOMMENDS THE MINIMUM SIZE FOR HAND HOLES IS 18" (45.7cm)  $X 18'' (45.7cm) \times 12'' (30.5cm)$ .

EXACT ROUTING OF CONDUIT TO BE DETERMINED ON SITE, CONDUITS ARE LABELED LEFT TO RIGHT, TOP TO BOTTOM.

DRAWING NOT TO SCALE.

### NOTES:

CABINET WITH WIM ELECTRONICS

CABINET BASE

HAND HOLE

DRILL THROUGH SHOULDER FOR CONDUIT

TEMPERATURE SENSOR

REVISED

REVISED

REVISED

REVISED

BORE UNDER ROADWAY

### LEGEND:

- INDUCTIVE LOOP
- LINEAS® QUARTZ WIM SENSOR BY KISTLER
- TEMPERATURE SENSOR
- SIGNAL CONDUIT

### SIGNAL CONDUIT:

- 1" (25mm) CONDUIT SENSOR LEAD
- 3" (76mm) CONDUIT SENSOR LEAD

.\	NOTE

DESIGNED - JJC :\\ILØ84EBIDINTEG.ıllınoı uments\IDOT Offices\District 8\Projects\D87**6KBRAWAD**Data\GADsh**ela**ts\D876K61-sht-elec CHECKED 6-30-17 PLOT DATE = 8/7/2017

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

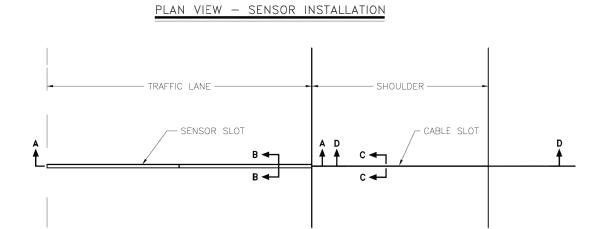
FAI 64 (I-64) WEIGH-IN-MOTION DATA COLLECTION SYSTEM SCALE DETAILS SCALE: NO SCALE SHEET NO. 1 OF 7 SHEETS STA. TO STA.

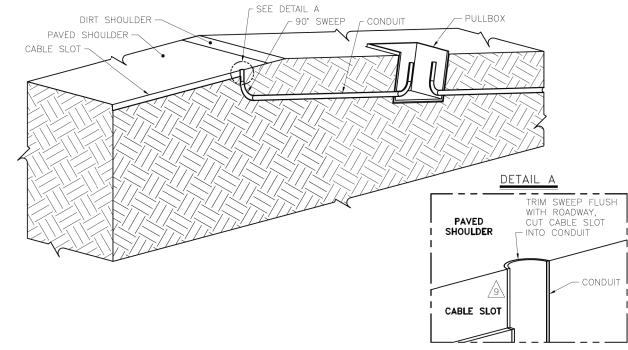
TOTAL SHEET NO. SECTION COUNTY ST CLAIR 64 82-9 WIMCDS 2018-1 CONTRACT NO. 76K61

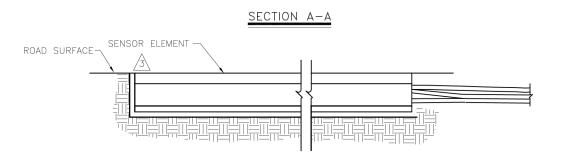
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### SECTION D-D (CABLE ROUTING DETAILS)







# LINEAS® QUARTZ WIM SENSOR BY KISTLER CABLE FIXING CLIP SAND-EPOXY GROUTING 2.835±0.118 [72±3]

# PAVEMENT APPROVED SEALANT 3.15 [80] PROTECTED SENSOR-CABLE GROUND 8

### NOTES:

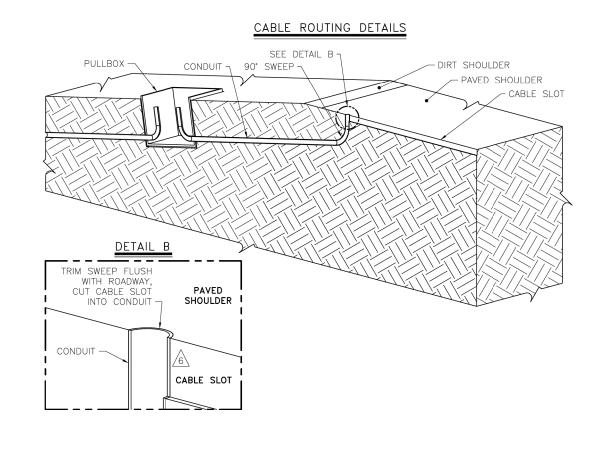
- 1 FOR INSTALLATION PROCESS REFER TO MANUFACTURERS INSTALLATION MANUAL.
- 2 SLOT LENGTH IS 6 [152] LONGER THAN SENSOR.
- SET SENSOR FLUSH WITH OR SLIGHTLY HIGHER THAN ROAD SURFACE USING INCLUDED LEVELING REAMS
- 4 CHECK THE RESISTANCE OF THE SENSOR BY PLACING A DIGITAL MULTIMETER ACROSS THE CENTER CONDUCTOR OF THE BNC CONNECTOR AND THE OUTER BODY. THE READING SHOULD BE INFINITY.
- 5 CHECK THE VOLTAGE OUTPUT OF THE SENSOR BY MONITORING THE METER WHEN A TRUCK PASSES OVER THE SENSOR INSTALLED IN THE ROADWAY. AS THE TRUCK PASSES OVER THE SENSOR, VOLTAGE DEFLECTION SHOULD BE OBSERVED.
- 6 CRACKS OR SAW CUTS TN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18 [450] UPSTREAM AND 18 [450] DOWNSTREAM OF THE SENSOR.
- SENSOR MUST BE GROUND FLUSH WITH ROAD SURFACE AFTER GROUT HAS CURED.
- IF SIGNIFICANT NOISE SOURCES ARE IDENTIFIED, OVERHEAD POWER SOURCES ETC., CONNECT OPTIONAL GROUND WIRE AS PER 690359 SECTION 4.5 OF THE MANUFACTURE'S INSTALLATION GUIDE, OTHER END OF GROUND WIRE CONNECTS TO CABINET GROUND BUSBAR.
- CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.



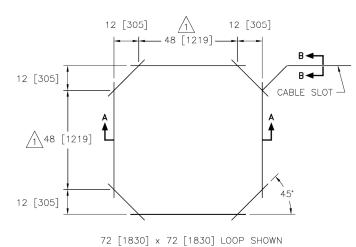
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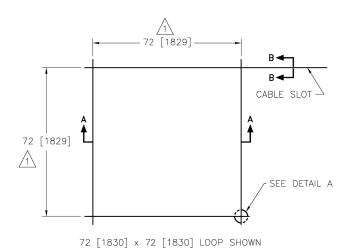


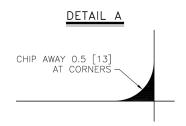


### OCTAGON LOOP DIMENSION DETAIL

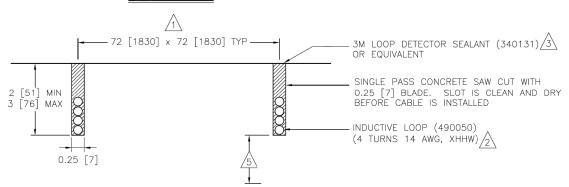


### SQUARE LOOP DIMENSION DETAIL

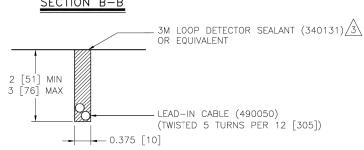








### SECTION B-B



### NOTES:

LOOP SIZE AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGRO001.

NUMBER OF TURNS AS SPECIFIED ON SITE LAYOUT AND IN ACCORDANCE WITH IRD 3EGRO001.

3 USE CAULKING GUN 340132 OR 340148.

4 LOOP INSTALLATION MANUALS: 690279 — PERMANENT OCTAGON LOOPS 690289 — PERMANENT SQUARE LOOPS

IF THE LOOP IS INSTALLED OVER REBAR, THERE MUST BE A MINIMUM OF 2 [50.8] CONCRETE BELOW AND A MINIMUM OF 1 [25.4] FILL ABOVE THE WIRES.

CORE DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

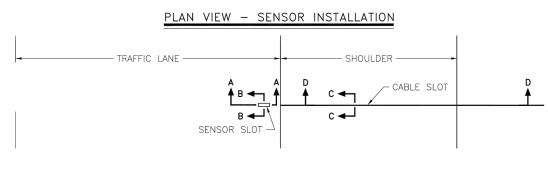


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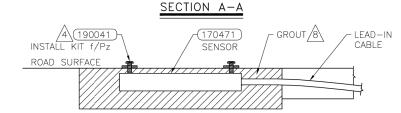
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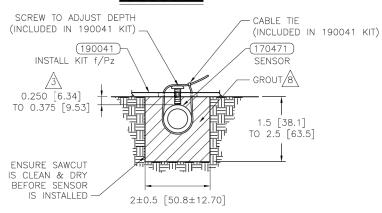
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### SENSOR P/N 170471



### SECTION B-B



### NOTES: (THIS SHEET ONLY)

- 1 CRACKS OR SAW CUTS IN THE ROADWAY MUST NOT BE LOCATED CLOSER THAN 18" [450MM] UPSTREAM AND 18 [450MM] DOWNSTREAM OF THE TEMPERATURE SENSOR.
- 2 SLOT LENGTH IS 4" [102MM] LONGER THAN SENSOR.

3 SET THE SENSOR AT THE CORRECT DEPTH.

PLACE A BRACKET AT EACH END OF THE SENSOR,

LOCATE SENSOR IN SAME PAVEMENT AND WITHIN 6' [2M] OF THE TEMPERATURE COMPENSATED DEVICE. AVOID PLACING IN WHEEL PATH.

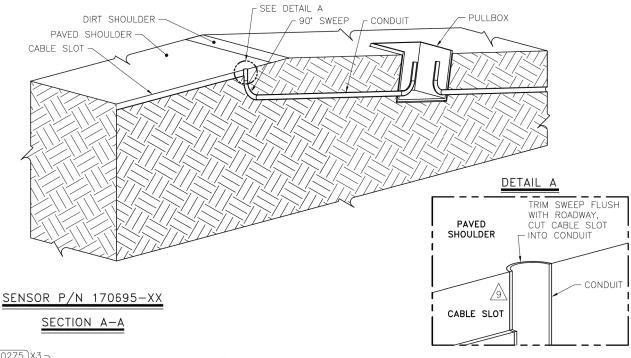
6 WEDGE SENSOR AGAINST FLOOR OF CUT UNDER "W" CLIP (P/N 480275).

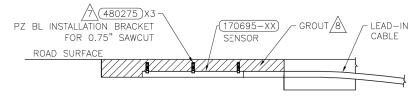
/7\ SPACE THREE BRACKETS (P/N 480275) EVENLY OVER THE LENGTH OF THE SENSOR,

8 USE GROUT OF SAME TYPE AS THAT OF SENSOR BEING COMPENSATED: PIEZO – USE AS475 (340028) OR PU200 (IT2000285)
KISTLER – USE KISTLER GROUT (340139) OR FLEXOLITH (340082)

OCCUR DRILL OR CUT NOTCH IN PAVED SHOULDER FOR SWEEP. PLUG SWEEP OPENING, COVER WITH LOOP SEALANT.

### SECTION D-D (CABLE ROUTING DETAILS)

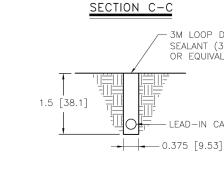




SECTION B-B

## GROUT/8 'W' BRACKET 0.75 [19.05] TO 1.00 [25.4]

170695-XX/6\ SENSOR



SINGLE PASS CONCRETE SAW CUT WITH MULTIPLE BLADES. SLOT IS CLEAN & DRY BEFORE SENSOR IS INSTALLED

0.75±0.063 [19.05±1.60]

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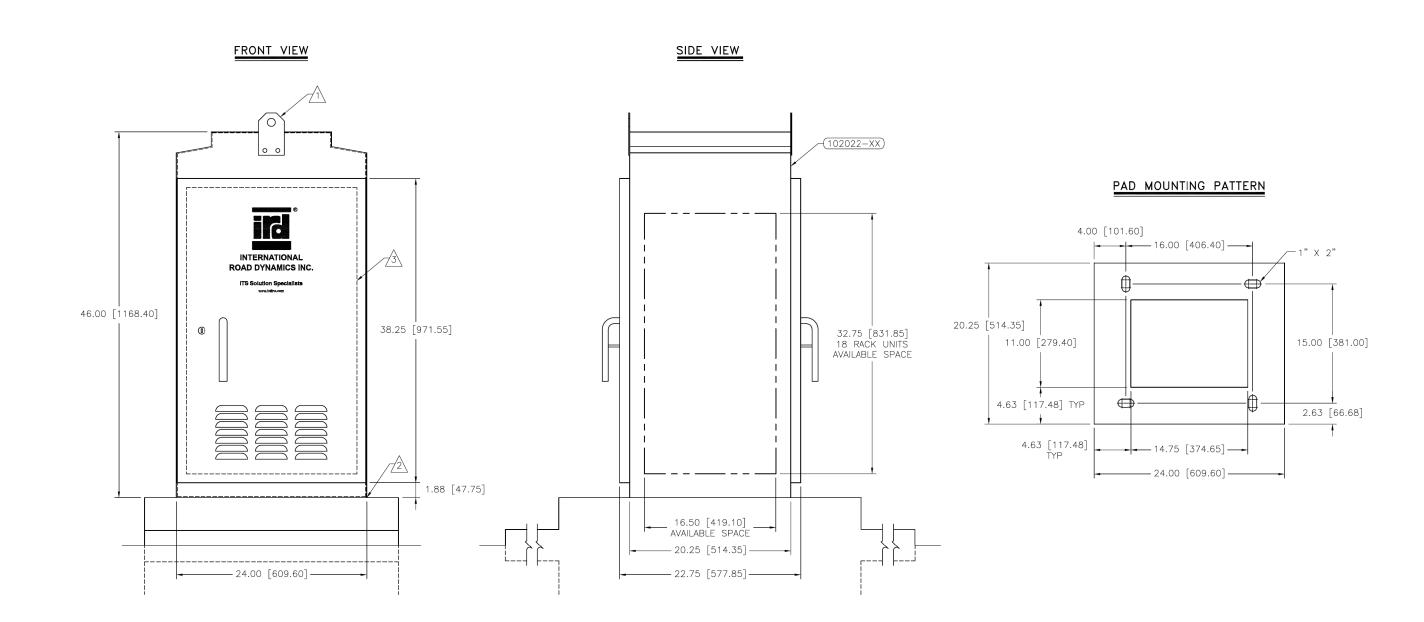
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	FAI 64 (I–64) WEIGH-IN-MOTION DATA COLLECTION SYSTEM	F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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3M LOOP DETECTOR

SEALANT (340131) OR EQUIVALENT

-LEAD-IN CABLE



### NOTES:

LIFTING EYE. MAY BE UNBOLTED AND ROTATED 180° FOR STORAGE.

SEAL CABINET TO FOUNDATION JOINT WITH SILICONE SEALANT TO PREVENT WATER INTRUSION. LOCATE CABINET ABOVE HIGH WATER LEVEL.

REMOVABLE 19" EIA RACK.

HURST-ROSCHE, I HILLSBORO, ILLINOIS PHONE (217)532-3 JOB NO. 180-235

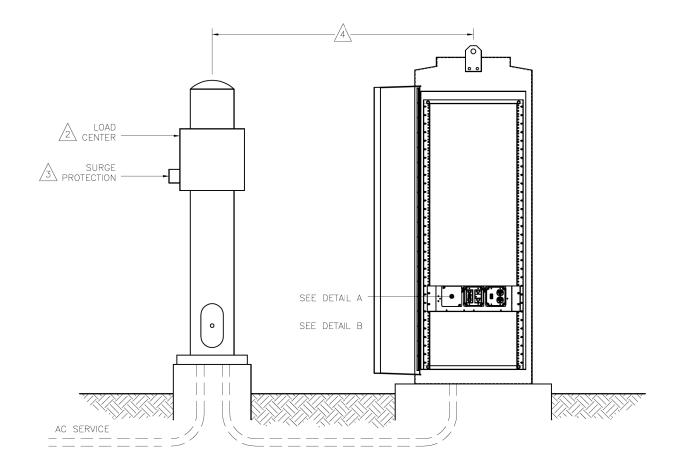
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### 33X CABINET BACK INSIDE VIEW



### DETAIL A PAD MOUNT ENCLOSURE AC DISTRIBUTION SCHEMATIC (P/N'S 190475, 190596-01) 120VAC/60Hz 15A CIRCUIT 1 GFCI DUPLEX OUTLET | BLACK/WHITE 120VAC/60Hz 15A CIRCUIT 2 SURGE DUPLEX DUPLEX -AC -> SWITCH OUTLET OUTLET RED/WHITE

### NOTES:

ALL ELECTRICAL DEVICES, GROUNDING, BONDING, WIRING AND MOUNTING MUST MEET THE NATIONAL ELECTRICAL CODE NFPA70 AND LOCAL ELECTRICAL CODE.



PROVIDE SUITABLE INDOOR OR OUTDOOR LOAD CENTER. IRD RECOMMENDS FOR CSA USE SQUARE D P/N CQ018M100RB60 OR P/N Q02L70RB, FOR UL USE P/N Q0112M100RB OR P/N Q024L70RB OR EQUIVALENT.



EQUIPMENT MUST BE PROTECTED WITH AN ANSI/IEEE C62.41 CATEGORY C RATED PROTECTION DEVICE WITH A MINIMUM PEAK CURRENT HANDLING CAPABILITY OF 36KA (8/20\muS) INSTALLED AT THE LOAD CENTER OR SUB LOAD CENTER.

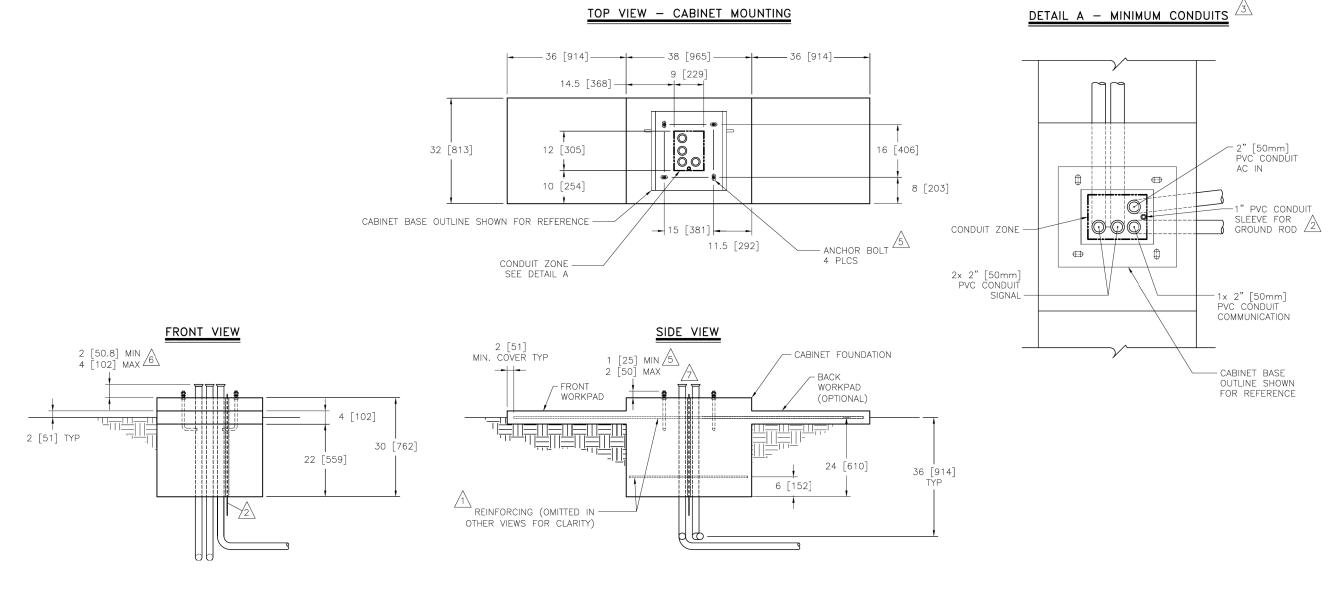


4 30m MAXIMUM CABLE LENGTH BETWEEN CATEGORY C PROTECTOR AND ENCLOSURE(S).

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5		PLOT SCALE = 100.0000 '/ in.	CHECKED - GR	REVISED -	DEPARTMENT OF TRANSPORTATION	SCALE DETAILS				CONTRACT	NO. 7	6K6
-		PLOT DATE = 8/7/2017	DATE - 6-30-17	REVISED -	SCA	SCALE: NO SCALE SHEET NO. 6 OF 7 SHEETS	STA. TO STA.	FED. RO	AD DIST. NO. 8   ILLINOIS   FED. A			



### NOTES:

INSTALL REINFORCING MATS. #4 [12M] BAR 12" [300mm] ON CENTER EACH WAY. REINFORCEMENTS ARE MINIMUM REQUIREMENTS AND MAY BE SUPERSEDED BY LOCAL CONSTRUCTION CODES.

GROUND ROD MUST BE PROVIDED TO MEET LOCAL ELECTRICAL CODE.

ALL CONDUITS SHOWN SHALL BE FURNISHED AND INSTALLED IN FOUNDATION IN ACCORDANCE WITH LOCAL CODES. CAP IF NOT USED. ADDITIONAL CONDUITS MAY BE REQUIRED. CONDUITS SHALL EXIT FOUNDATION IN DIRECTION APPROPRIATE FOR SITE GEOMETRY.

4 CONCRETE SHALL HAVE MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI [20.7 MPa].

 $\stackrel{\triangle}{\triangle}$  cabinet anchors must be galvanized or stainless steel and may be cast in place, chemical or expansion type drilled into base. Typical size is 3/4" nc x 12" x 4".

THE CABINET BASE CONDUIT MUST BE HIGHER THAN SURROUNDING PULL BOXES.
THE HEIGHT OF CONDUITS ENDING IN THE CABINET MUST BE HIGHER THAN THE OTHER
END TO PREVENT WATER ENTRY DUE TO HYDROSTATIC PRESSURE. ALL CONDUITS SHALL
HAVE END BELLS INSTALLED OR NO SHARP EDGES.

### NOTES: (CONTINUED)

SEAL ALL CONDUIT ENDS WITH STEEL WOOL AND DUCT SEAL TO REDUCE RODENT OR INSECT INTRUSION AND MOISTURE. DO NOT USE PERMANENT SEALANT AS CONDUITS MAY NEED TO BE REENTERED IN THE FUTURE FOR CABLE REPLACEMENT OR ADDITIONS.

HURST-ROSCHE, INC. HILLSBORO, ILLINOIS 62049 PHONE (217)532-3959 JOB NO. 180-2356

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sche	FILE NAME =	USER NAME = prestonme	DESIGNED - JJC	REVISED -		FAI 64 (I–64) WEIGH-IN-MOTION D	ATA COLLECTION SYSTEM	F.A.I.	SECTION	COUNTY	TOTAL SHEET
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