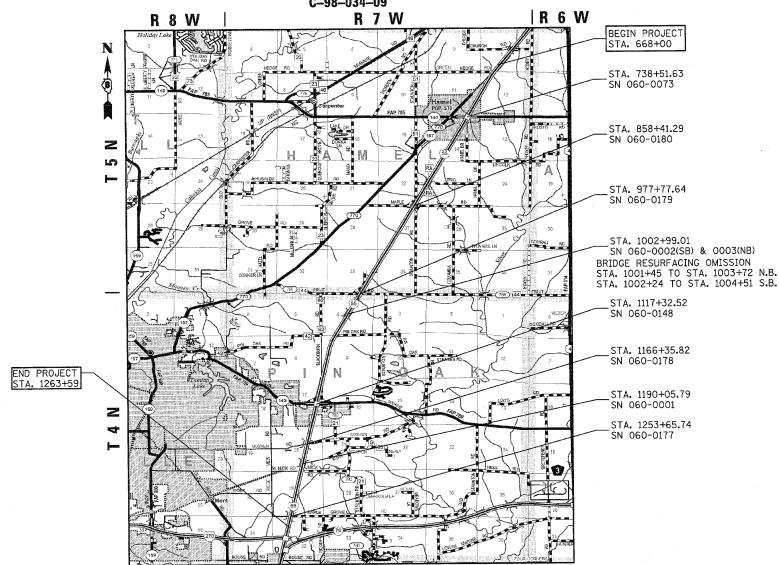
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

FAI ROUTE 55 (I-55) SECTION 60-(1,2)RS-2

PROJECT: ACIM-055-1(082)020

RUBBLIZING AND RESURFACING **MADISON COUNTY** C-98-034-09



60-(1,2)RS-2 ILLINOIS CONTRACT NO. 76C93

A (*156 + 3 = 159

D-98-038-09



RURAL PRINCIPAL ARTERIAL (INTERSTATE) F.A.I. 55 (I-55) ADT (2009) = 29,700 PV = 76.1% SU = 3.0% MU = 20.9% DESIGN SPEED = 70 MPH

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

SUBMITTED JULY 05 20 10

DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Duguot 13 20 10 Scott E. Stitt P.E. &
Catura Engineer of Design and Environment

Christing M. Road &2.

DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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1 Rev. 9-1-10

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PLANS PREPARED BY:

LICENSE

11/30/11

JOHNSON, DEPP & QUISENBERRY

CONSULTING ENGINEERS 6450 South Sixth Street Road, Suite B Springfield, Illinois 62712 Phone: (217) 529–4534 Fax: (217) 529–8278

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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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

PROJECT ENGINEER: TIMOTHY PADGETT (618)346-3325 PROJECT MANAGER: TIMOTHY PADGETT (618)346-3325

CONTRACT NO. 76C93

LOCATION MAP 2 MILES

GROSS LENGTH = 59,559.00 FT. = 11.280 MILE NET LENGTH = 59,332.00 FT. = 11.237 MILE

INDEX OF SHEETS

INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS SUMMARY OF QUANTITIES PAVEMENT CORE RESULTS TYPICAL SECTIONS
SCHEDULES OF QUANTITIES 12-16 34-36 37-89 TIES AND BENCHMARKS
PLAN AND PROFILE SHEETS 90-103 STAGES OF CONSTRUCTION AND TRAFFIC CONTROL ALTERNATE ROUTE DETAILS EROSION AND SEDIMENT CONTROL DETAILS 132-140 SIGN DETAILS BOX CULVERT STA. 734+50 143-152 MISCELLANEOUS DETAILS 153-156 PIPE CROSS SECTIONS SMART WORK ZONE TRAFFIC CONTROL

HIGHWAY STANDARDS

BLR - 18-5 701201-03

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS AREAS OF REINFORCEMENT BARS DECIMALS OF AN INCH AND OF A FOOT 001001-02 001006 202001-01 EARTH MEDIAN DITCH CHECK TEMPORARY EROSION CONTROL SYSTEMS 420701-02 PAVEMENT FABRIC 421001-02 BAR REINFORCEMENT FOR CRC PAVEMENT 24' CRC PAVEMENT CLASS B PATCHES 442101-07 483001-04 PCC SHOULDER REINF. CONC. END SECT.'S FOR PIPE CULV. 15" THRU 36" DIA. SKEWED WITH RDWAY REINF. CONC. END SECT.'S FOR PIPE CULV. 42" THRU 60" DIA. SKEWED WITH RDWAY PRECAST REINFORCED CONCRETE FLARED END SECTION FLUSH INLET BOX FOR MEDIAN 542201-02 542301-02 542546-01 REINFORCED CONCRETE PIPE ELBOW SUB-SURFACE DRAINS 542601-02 601001-03 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN 602306-03 INLET - TYPE B MANHOLE TYPE A 602401-02 FRAME AND LIDS TYPE 1
MEDIAN INLET FOR 36' REINFORCED CONCRETE PIPE
STEEL PLATE BEAM GUARDRAIL 604001-03 604106-01 630001-08 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS TRAFFIC BARRIER TERMINAL, TYPE 2
TRAFFIC BARRIER TERMINAL, TYPE 6 631011-06 631031-08 TRAFFIC BARRIER TERMINAL, TYPE 6B 631033-03 635001-01 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT REFLECTOR MARKER AND MOUNTING DETAILS 635011-02 SHOULDER RUMBLE STRIPS
SHOULDER RUMBLE STRIPS
OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY
LANE CLOSURE, FREEWAY/EXPRESSWAY 642001-01 701101-02 701106-02 701400-04 701401-05 LANE CLOSURE, FREEWAY/EXPRESSWAY, DAY OPERATIONS ONLY
LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS ≥ 45 MPH
LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER, FOR SPEEDS ≥ 45 MPH
RAMP CLOSURE FREEWAY/EXPRESSWAY
PARTIAL EXIT RAMP CLOSURE FREEWAY/EXPRESSWAY 701406-05 701411-06 701426-03 701451-01 701456 701901-01 TRAFFIC CONTROL DEVICES
TEMPORARY CONCRETE BARRIER 704001-06 720001-01 SIGN PANEL MOUNTING DETAILS SIGN PANEL ERECTION DETAILS 720006-02 720011-01 METAL, POSTS FOR SIGNS, MARKERS & DELINEATORS TELESCOPING STEEL SIGN SUPPORT
APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS) 728001-01 729001-01

LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH

GENERAL NOTES

* CITY OF TROY

* LEVEL 3 COMMUNICATIONS

1. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

2. THE STANDARDS AND REVISION NUMBERS LISTED SHALL APPLY TO THIS PROJECT.

3. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE TO BE GIVEN TO UTILITIES 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:

UTILITY CO.	TYPE
* AMEREN IP * AT&T ILLINOIS * AT&T CORPORATION * BOND MADISON WATER COMPANY * BUCKEYE PARTNERS L.PWOOD RIVER PIPELINE * CENTERPOINT ENERGY * CHARTER COMMUNICATIONS, INC. * CONSOLIDATED COMMUNICATIONS * CITY OF EDWARDSVILLE * VILLAGE OF HAMEL * ILLINOIS AMERICAN WATER COMPANY * VILLAGE OF LIVINGSTON * MADISON TELELPHONE COMPANY * MARATHON PIPE LINE LLC * NORTHEAST CENTRAL COUNTY PUBLIC WATER DISTRICT * PLAINS MARKETING, L.P. * SOUTHWESTERN ELECTRIC COOPERATIVE, INC.	SANITARY SEWER SANITARY SEWER WATER SANITARY SEWER COMMUNICATIONS PIPELINE WATER PIPELINE
* THREE COUNTY PUBLIC WATER DISTRICT	ELECTRIC

MEMBERS OF J.U.L.I.E. (800)-892-0123 ARE INDICATED BY \bullet . NON J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

WATER & SANITARY SEWER

4. "ROAD CONSTRUCTION AHEAD" SIGNS SHALL BE PLACED AT THE BEGINNING OF THE PROJECT AND ALL ENTRANCE RAMPS; COST TO BE INCLUDED WITH THE TRAFFIC CONTROL PAY ITEMS. ALL CONSTRUCTION SIGNS SHALL BE FLUORESCENT ORANGE AND 48" X 48". THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN POST SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS. HOWEVER, INSTALLATION BY METHOD "A" (ART. 730.04(g)) SHALL BE THE ONLY METHOD PERMITTED.

5. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

6. DROP-OFFS ADJACENT TO A MAINLINE EDGE OF PAVEMENT, DURING THE SHOULDER REMOVAL AND REPLACEMENT OPERATIONS OF THE PRE-STAGE CONSTRUCTION PHASE, SHALL BE PROTECTED WITH EXTENDED-HEIGHT CHANNELIZING DEVICES, WITH STEADY BURN LIGHTS, AT 100' SPACING, SINCE THESE DROP-OFFS ARE GREATER THAN 12 INCHES, BUT LESS THAN OR EQUAL TO 18 INCHES, THEY SHALL BE LIMITED TO 0.5 MILES IN LENGTH AND 48 HOURS DURATION.

DROP-OFFS ADJACENT TO A RAMP EDGE OF PAVEMENT, DURING THE EXCAVATION FOR CONCRETE SHOULDERS, SHALL BE PROTECTED BY PLACING EXTENDED-HEIGHT CHANNELIZING DEVICES, WITH STEADY BURN LIGHTS, AT 50' SPACING.

DROP-OFFS ADJACENT TO THE EDGE OF PAVEMENT OF THE MAINLINE OR A RAMP, DUE TO RESURFACING OPERATIONS DURING THE POST-STAGE CONSTRUCTION PHASE, SHALL BE PROTECTED BY PLACING "LOW SHOULDER" SIGNS AT TWO-MILE SPACING, WHEN THE DROP-OFF IS MORE THAT ONE INCH BUT LESS THAN OR EQUAL TO THREE INCHES.

7. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

MIXTURE USE	SMA SURFACE	POLY BINDER*	BINDER/PATCHING		····
AC/PG	SBS PG 76-22	SBS PG 76-22	PG 64-22	 	
RAP % (MAX)	SEE SPEC.	SEE SPEC.	SEE SPEC.	 	
DESIGN AIR VOIDS	4.0%@Ndes=80	4.0%@Ndes=90	4.0%@Ndes=90		
MIX COMPOSITION	SEE SPEC.		1	-	
(GRADATION MIXTURE)		IL 19.0	IL 19.0	 	-
FRICTION AGGREGATE	SMA	MIXTURE "B"	MIXTURE "B"		

MIXTURE USE	SHOULDERS ≥ 2.25"	SHOULDERS < 2.25"	BASE CSE. FOR STAGE CONST./ INCIDENTAL HMA
AC/PG	PG 64-22	PG 64-22	PG 64-22
RAP % (MAX)	See Contract RAP	See Contract RAP	SEE SPEC.
DESIGN AIR VOIDS	Special Provision	Special Provision	4.0%@Ndes=90
MIX COMPOSITION	**2.0%@Ndes=30	**2.0%@Ndes=30	HOWELIGO 50
(GRADATION MIXTURE)		NMAS 1/2"	IL 19.0
FRICTION AGGREGATE	L		MIXTURE "B"
# 3// minimum + 11	C. C.D		

ullet 3" minimum top lift of Binder on rubblizing sections, 2.25" minimum top lift of Binder on resurfacing only sections.

** Top Lift Shoulders - Design this mix at 2.0% voids and add asphalt to reduce voids to 1.5%.

PLAN QUANTITIES FOR BITUMINOUS CONCRETE SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25 mm THICKNESS).

8. A QUANTITY FOR CLASS 2 SEEDING, FERTILIZER AND MULCH METHOD 2, BASED ON A STRIP 15' WIDE, LEFT AND RIGHT OF THE MAINLINE, OUTSIDE SHOULDERS AND THE MEDIAN WIDTH 20' THROUGHOUT THE LIMITS OF THE PROJECT AND A STRIP 10' LEFT AND RIGHT OF THE RAMP SHOULDERS HAS BEEN INCLUDED IN THE PLANS TO BE APPLIED TO ALL DISTURBED AREAS.

ANY DISTURBANCE BEYOND THE ABOVE DESCRIBED LIMITS SHALL BE SEEDED, FERTILIZED, AND MULCHED PER SECTIONS 250 AND 251 OF THE STANDARD SPECIFICATIONS AND SHALL BE AT THE CONTRACTOR'S EXPENSE.

9. BEGINNING AND END STATIONS AS SHOWN IN THE PLANS FOR HTC AND MOW STRIP ARE APPROXIMATE. THE ENGINEER WILL DETERMINE THE EXACT LOCATION.

10. THE MINIMUM DEPTH OF THE LINE POST FOUNDATIONS SHALL BE 30".

11. THE LIMITS OF THE MOW STRIP SHALL BE THE SAME AS THE LIMITS OF THE HTC INCLUDING TERMINAL SECTIONS.

12. REFLECTORS FOR HTC SHALL BE PROVIDED AND INSTALLED PER MANUFACTURER'S SPECIFICATIONS FOR THE TYPE OF HTC BARRIER USED. COST SHALL BE INCLUDED IN HIGH TENSION CABLE MEDIAN BARRIER. MAXIMUM SPACING SHALL BE 50' OR AS DIRECTED BY THE ENGINEER.

13. HTC SYSTEM SHALL BE CHOSEN FROM THE DEPARTMENT'S APPROVED LIST TO BE USED WHERE MEDIAN SLOPES ARE STEEPER THAN 1:6 AND AS STEEP AS 1:4.

14. POST SPACING SHALL BE REDUCED IN AREAS WHERE A MEDIAN HAZARD IS PRESENT (1e. MEDIAN PIER) AS DIRECTED BY THE ENGINEER. REDUCED POST SPACING SHALL NOT BE ANY SMALLER THAN THE MINIMUM SPACING ALLOWED PER MANUFACTURER'S SPECIFICATIONS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR MODIFYING POST SPACING.

15. ALL WORK REQUIRED FOR THE REMOVAL OF THE PORTION OF THE EXISTING HMA MOW STRIP, INCLUDING SAW CUTTING, SHALL BE INCLUDED IN THE COST FOR PAVED SHOULDER REMOVAL, AS SHOWN IN THE PLANS.

16. TWO WEEKS PRIOR TO PROJECT START-UP, CHANGEABLE MESSAGE SIGNS SHALL BE PLACED AT THE FOLLOWING LOCATIONS AS DIRECTED BY THE ENGINEER:

I-55 NORTH OF IL 4 IL 4 WEST OF I-55	IL 143 WEST IL 143 EAST				SOUTHBOUND NORTHBOUND	
IL 4 EAST OF I-55	I-270 WEST	OF 31				
IL 140 WEST OF I-55	I-70 EAST O	F 3I				
IL 140 EAST OF I-55	I-55 SOUTH	OF 31				

THE CONTRACTOR SHALL MODIFY THE MESSAGE ON EACH SIGN AS DIRECTED BY THE ENGINEER, AS NEEDED.

THE CONTRACTOR SHALL BE AWARE THAT THE MESSAGE BOARDS MAY REQUIRE RELOCATION THROUGHOUT THE DURATION OF THE PROJECT WITH NO ADDITIONAL COMPENSATION BEING ALLOWED FOR THE RELOCATION.

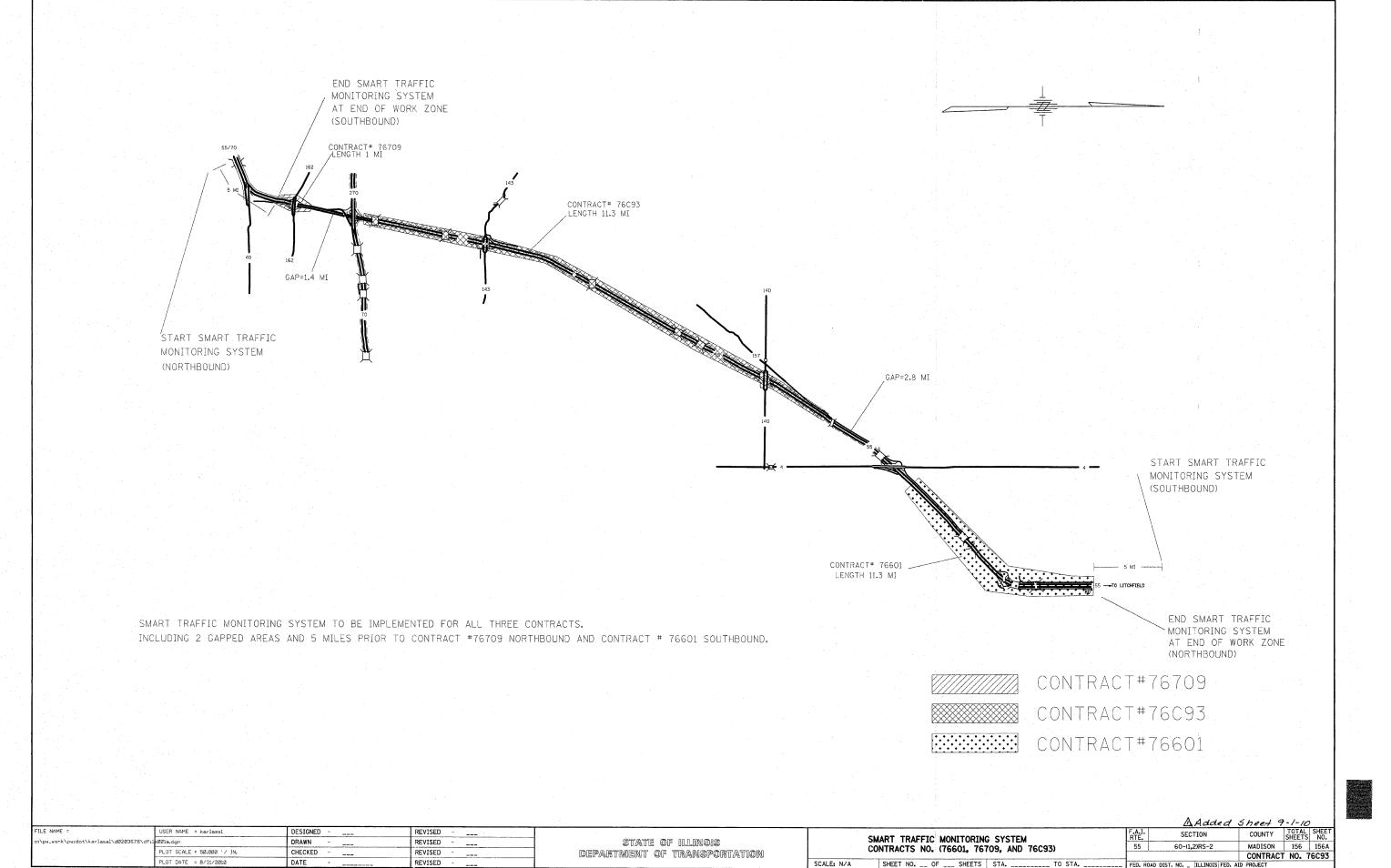
I-55	RAMP
RUBBLIZE	RESURFACING
2" SMA	2" SMA
3" POLY BIND.	2.25" POLY BIND.
2.25" - 11" BIND.	2.25" - 4.25" BIND.

- [FILE NAME =	USER NAME = karlasal	DESIGNED -	REVISED -			AREV. Shee	0+9-1-1n
	c:\pw_work\pwidot\kariasal\d0230588\D87		DRAWN -	REVISED -	STATE OF ILLINOIS	INDEX OF SHEETS, HIGHWAY STANDARDS,	F.A.I. SECTION COUNTY	TOTAL SHEET
-	Johnson, Depp & Quisenberry CONSULTING ENGINEERS	PLOT SCALE = 50.0000 // IN.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	GENERAL NOTES AND COMMITMENTS	55 60-(1,2)RS-2 MADISON	SHEETS NO.
L	Springfield, Illinois	PLOT DATE = 8/31/2010	DATE -	REVISED -				NO. 76C93
						SCALE: SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT	

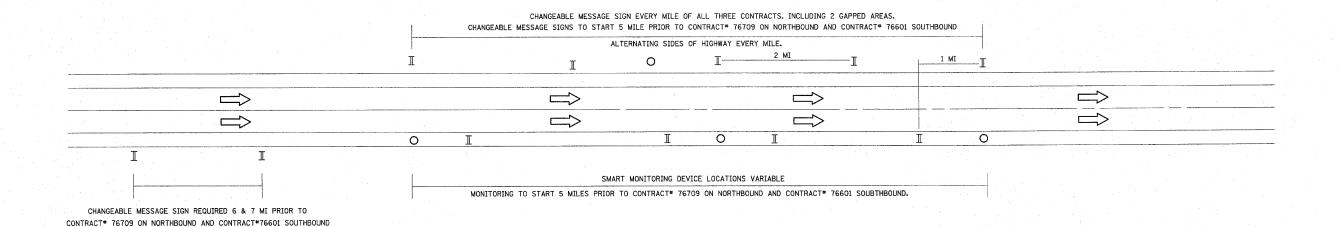
SUMMARY OF QUANTITIES

	SUMMARY OF QUANTITIES			CON	STRUCTION TYPE	CODE		CLIMATADY	, OF	OLLANIT				CON	ISTRUCTION TYPE	CODE
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	901,FED./10/.STME	1000 E 300 F E		0005 NO	SUMMARY		QUANI	TITES		TOTAL		100% STATE	
				1000	Y002-1C		CODE NO		ITEM		'.	UNIT	QUANTITIES	1000	1000	
Z0030260	IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	5	5												
Z0030330	IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE), TEST LEVEL 3	EACH	5	5												
Z0034105	MATERIAL TRANSFER DEVICE	TON	95047	95 047												
Z0055605	RUBBLIZING PORTLAND CEMENT CONCRETE PAVEMENT	SQ YD	287602	287602												
	TIE BARS 3/4"	EACH	1200	1200											A contract	
Andrew Street or the Street or	SMART TRAFFIC MONITORING SYSTEM	HOUR	2500	2500				5							A TOTAL	
8570000	SHAKI TRAFFIC MONTORING SYSTEM	LSUM														
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F.A.I.	SECTION	COUNTY	STOTAL NO. 156	7
55	60-(1,2,)RS-2	MADISON	156	7
CONTRACT	NO. 76C93			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT	DESIGNED -FILE NAME = REVISED - ___ F.A.I. RTE. 55 DRAWN - ___ 376c93~sht-plan.dgn STATE OF ILLINOIS REVISED - ----SUMMARY OF QUANTITIES CHECKED - ___ REVISED -PLOT SCALE = 50.0000 '/ IN. **DEPARTMENT OF TRANSPORTATION** PLOT DATE = 6/24/2010 DATE REVISED -SCALE: __ SHEET NO. __ OF ___ SHEETS STA. TO STA.	



TYPICAL SMART TRAFFIC MONITORING SYSTEM TO BE PLACED IN EACH DIRECTION



NOTES:

- 1. THREE CONTRACTS INCLUDE: 76601, 76093, AND 76709.
- 2. TYPICAL DRAWING SHOWN ABOVE REPRESENTS NORTHBOUND AND SOUTHBOUND. LUMP SUM PAY ITEM REPRESENTS BOTH DIRECETIONS.
- 3. ACTUAL LOCATION OF SMART MONITORING DEVICES BASED ON MANUFACTURER'S SPECIFICATION AND "SMART TRAFFIC MONITORING SYSTEM" SPECIAL PROVISION.

LEGEND

O SMART MONITORING DEVICE LOCATION

						Added Sheet 9-1-10
FILE NAME =	USER NAME = karlasai	DESIGNED	REVISED		SMART TRAFFIC MONITORING SYSTEM	F.A.I. SECTION COUNTY TOTAL SHEET NO.
c:\pw.work\pwidot\karlasal\	dØ2Ø3678\df:1pØØ1a.dgn	DRAWN	REVISED	STATE OF ILLINOIS	CONTRACTS NO. (76601, 76709, AND 76C93)	55 60-(1,2)RS-2 MADISON 156 156B
	PLOT SCALE = 50.000 '/ IN.	CHECKED	REVISED	DEPARTMENT OF TRANSPORTATION		CONTRACT NO. 76C93
	PLOT DATE = 8/31/2010	DATE -	REVISED		SCALE: SHEET NO OF SHEETS STA TO STA	FED. ROAD DIST. NO ILLINOIS FED. AID PROJECT

