	Summary of Quant	ities			•		URBAN YO35
PAY CODE	ITEM	UNIT	SITE 404	SITE 405	SITE 406	SITE 407	TOTAL
50200400	ROCK EXCAVATION FOR STRUCTURES	CU YD		35. 5	35.5		71
63000002	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6.75 FOOT POSTS	FOOT		62.5			62.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH		1		2	1
67100100	MOBILIZATION	L SUM	0.25	0. 25	0.25	0.25	1
70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	0.25	0.25	0.25	0. 25	1
73301600	OVERHEAD SIGN STRUCTURE - BUTTERFLY, TYPE I-B-A	FOOT	15.75	15.75	15. 75	15.75	63
73301900	OVERHEAD SIGN STRUCTURE WALKWAY - BUTTERFLY, TYPE A	FOOT	15. 75	15, 75	15.75	15.75	63
73400100	CONCRETE FOUNDATIONS	CU YD		11.5	11.5	11.5	34.5
73400200	DRILLED SHAFT CONCRETE FOUNDATIONS	CU YD	7		* *1		7
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	1	1	4
81012600	CONDUIT IN TRENCH, 2" DIA., PVC	FOOT	200	165	140	50	555
81018525	CONDUIT PUSHED, 2" DIA., HIGH DENSITY POLYETHYLENE, COILABLE	FOOT	60	65			125
81702110	HANDHOLE  ELECTRIC CABLE IN CONDUIT, GOOV (XLP-TYPE USE) 1/C NO. 10  ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 1/C NO. 4	EACH FOOT FOOT	2 180 <b>600</b>	2 180 495	420	300 105	4 1,080 1,290
31900200	TRENCH AND BACKFILL FOR ELECTRICAL WORK	FOOT	250	205	175	<b>6</b> 5	695
37800500	CONCRETE FOUNDATION (SPECIAL)	FOOT	5 <b>.5</b>	5 <b>.5</b>	5.5	5 <b>.5</b>	22
0050900	REMOVE CONCRETE FOUNDATION	EACH	1	1	1		3
(0325871	INSTALL DYNAMIC MESSAGE SIGN	EACH	1	1	1	1	4
	CAT 5 ETHERNET CABLE	FOOT	60	60	140	50	310

\*SPECIALTY ITEM

AREVISED 5-26-10

DESIGNED - S. POSKA

CHECKED - G. STUEMPFIG

DRAWN - M. BRESSLER

CHECKED - G. STUEMPFIG

EXAMINED

ENGINEER OF BRIDGE DESIGN
ENGINEER OF BRIDGES AND STRUCTURES

ENGINEER OF BRIDGES AND STRUCTURES



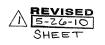
SHEET NO. 2 SHEETS 23	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	2 <u>3</u>	2	
	CONTRACT NO. 64F86					
دی			ILLINOIS FED. A	ID PROJECT (	0-92-061-1	0

#### GENERAL NOTES

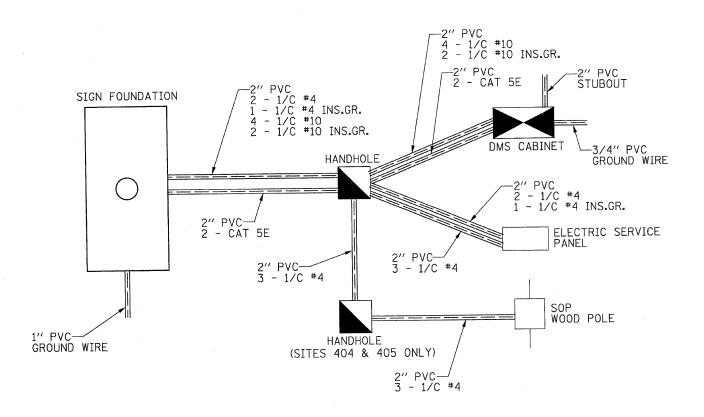
- 1. THE CONTROLLER CABINETS AND JUNCTION BOXES SHALL BE UNPAINTED ALUMINUM SHEET METAL UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- 2. UNDERGROUND CABLE MARKING TAPE SHALL BE INSTALLED WITH ALL TRENCH AND BACKFILL FOR ELECTRICAL WORK IN ACCORDANCE WITH ARTICLES 1066.05 OF THE STANDARD SPECIFICATIONS.
- 3. A 1/4" DIA. NYLON ROPE SHALL BE INSTALLED IN ALL CONDUIT RUNS. THE COST OF PULL ROPE SHALL BE INCLUDED IN THE PROPOSED ELECTRIC CABLE INSTALLATION IN THAT CONDUIT.
- 4. ALL GROUND RODS SUPPLIED FOR THIS PROJECT SHALL BE IN ACCORDANCE WITH ARTICLE 1087.01 EXCEPT THAT THEY SHALL BE 3/4" DIA. X 12'-0" LONG. ALL CONNECTIONS TO GROUND RODS SHALL BE MADE VIA EXOTHERMIC WELD. COMPRESSION CLAMPS WILL NOT BE ALLOWED.
- 5. COORDINATION WITH THE DEPARTMENT'S BUREAU OF OPERATIONS IS REQUIRED BEFORE ANY TRENCHING IS DONE TO LOCATE HIGHWAY UTILITIES AND TO COORDINATE OTHER FIELD ACTIVITIES.
- 6. NO OVERNIGHT LANE CLOSURES SHALL BE PERMITTED ON THIS PROJECT.
- 7. COMMUNICATIONS FROM THE DMS TO THE CONTROL SOFTWARE WILL BE PERFORMED BY OTHERS.
- 8. THE FINAL TOP 10MM (FOUR INCHES) OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE CAPABLE OF SUPPORTING VEGETATION. THE SOIL MUST BE FROM THE A HORIZON (ZERO TO 2' DEEP) OF SOIL PROFILES OF LOCAL SOILS.
- 9. ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.
- 10. THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS. SEEDING CLASS 4 OR 2A SHALL BE USED, EXCEPT IN FRONT OF PROPERTIES WHERE THE GRASS WILL BE MOWED, THEN USE SEEDING, CLASS 1. CLASS 2A SHALL BE USED ON FRONT SLOPES AND DITCH BOTTOMS. CLASS 4 SHALL BE USED BEHIND TYPE A GUTTER, ON ALL BACKSLOPES AND AREAS BEHIND THE BACKSLOPE AND BEYOND THE TOE OF FRONT SLOPE ON FILL SECTIONS WITHOUT DITCHES. THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE PER EACH FOR INSTALL STATE FURNISHED DYNAMIC MESSAGE SIGN.
- 11. FERTILIZER SHALL BE APPLIED TO ALL DISTURBED AREAS AND INCORPORATED INTO THE SEEDBED PRIOR TO SEEDING OR PLACEMENT OF SOD AT THE RATE SPECIFIED IN SECTIONS 250 AND 252 OF THE STANDARD SPECIFICATIONS. THIS WORK SHALL BE INCLUDED IN THE COST OF INSTALL STATE FURNISHED DYNAMIC MESSAGE SIGN.
- 12. MULCH METHOD II SHALL BE APPLIED OVER ALL SEEDED AREAS. THIS SHALL BE INCLUDED IN THE COST OF THE INSTALL STATE FURNISHED DYNAMIC MESSAGE SIGN.



DESIGNED - S. POSKA	2010
CHECKED G. STUEMPFIG	EXAMINED
DRAWN - M. BRESSLER	PASSED ENGINEER OF BRIDGE DESI
CHECKED - C STHEMPETS	ENGINEER OF BRIDGES AND STRUCTUR



	F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.	
	SHEET NO. 3 SHEETS	74+280	D2.IT MESSAGE SI	GN	ROCK ISLAND	-	3
-					CONTRACT	NO. 64	F86
	23		ILLINOIS	FED. A	ID PROJECT (	C-92-061-1	0



#### SITE INSTALLATION NOTES

- 1. THE IOWA DOT WILL FURNISH THE DMS CABINET TO BE INSTALLED BY THE CONTRACTOR.
- 2. THE DMS CABINET FOOTING SHALL BE LOCATED WITHIN 25 FEET OF THE HANDHOLE AND ORIENTED IN THE SAME DIRECTION AS THE DMS. IN LOCATIONS WITH A DITCH, THE FOOTING SHALL NOT BE LOCATED WITHIN THE DITCH BOTTOM, BUT SHOULD BE LOCATED BEYOND THE TOP OF THE BACKSLOPE, IF POSSIBLE. THE ENGINEER SHALL APPROVE THE LOCATION AND ORIENTATION PRIOR TO PLACEMENT OF THE FOOTING.
- 3. MARK THE LOCATIONS OF ALL CONDUIT ENTERING THE SIGN SUPPORT STRUCTURE FOOTING AND THE DMS CABINET FOOTING, LOCATE MARKS ON THE SIDE THE CONDUIT ENTERS, NEAR THE TOP, TO ENSURE VISIBILITY AFTER BACKFILLING AND SHAPING.



SITE INSTALLATION DETAILS FOR ROADSIDE DYNAMIC MESSAGE SIGN

DESIGNED - S. POSKA

CHECKED - G. STUEMPFIG

DRAWN - M. BRESSLER

CHECKED - G. STUEMPFIG

CHECKED - G. STUEMPFIG

REVISED 5-26-10 SHEET	
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SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	-	4
SHEETS			CONTRACT	NO. 64	F86
23		ILLINOIS FED. A	ID PROJECT	C92-061-1	0

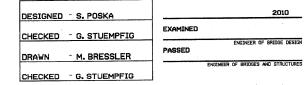
#### UTILITY COMPANY INFORMATION

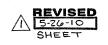
#### NOTES

- 1. ALL ELECTRICAL SERVICE SUPPLIED SHALL BE:
  60 HERTZ ALTERNATING CURRENT
  1 PHASE 120/240 VOLT,
  3 WIRE,
  100 AMP OR 200 AMP (AS SPECIFIED)
- 2. DETAILS OF POWER SERVICE SHALL BE COORDINATED WITH THE ILLINOIS DOT CONTACT AND THE UTILITY COMPANY.
- 3. THE CONTRACTOR SHALL MAKE EACH DMS AVAILABLE TO THE IOWA DOT FOR TESTING 48 HOURS AFTER INSTALLING THE DMS ON ITS SUPPORT STRUCTURE THUS, THE FINAL POWER CONNECTIONS SHALL BE COMPLETED WITHIN 48 HOURS OF INSTALLING THE DMS.
- 4. THE FINAL SERVICE CONNECTIONS BY THE UTILITY COMPANY SHALL BE COMPLETED PRIOR TO INSTALLING THE DMS.
- 5. THE CONTRACTOR SHALL NOTIFY THE UTILITY COMPANY 60 DAYS PRIOR TO THE DATE POWER SERVICE IS REQUIRED AT A SITE. AT THE TIME OF NOTIFICATION, THE CONTRACTOR SHALL HAVE COMPLETED ALL WORK REQUIRED BY THE UTILITY COMPANY IN ORDER TO MAKE FINAL SERVICE CONNECTIONS, AND SHALL MAKE THE SITE AVAILABLE TO INSPECTION BY THE UTILITY COMPANY.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATIONS. A MINIMUM OF 48 HOURS ADVANCE NOTICE IS REQUIRED FOR NON-EMERGENCY WORK. THE JULIE NUMBER IS 800-892-0123. THE TABLE ON THIS SHEET PROVIDES UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS. UTILITIES THAT ARE NOT MEMBERS OF JULIE SHOULD BE NOTIFIED BY THE CONTRACTOR.
- 7. ALL UTILITIES SHALL BE LOCATED IN FIELD, ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES BEFORE DIGGING, FIELD MARKINGS OF FACILITIES MAY BE OBTAINED BY PROVIDING A MINIMUM OF 96-HOURS ADVANCE NOTICE TO THE RESIDENT ENGINEER SO THAT THE UTILITY COMPANIES CAN BE NOTIFIED.

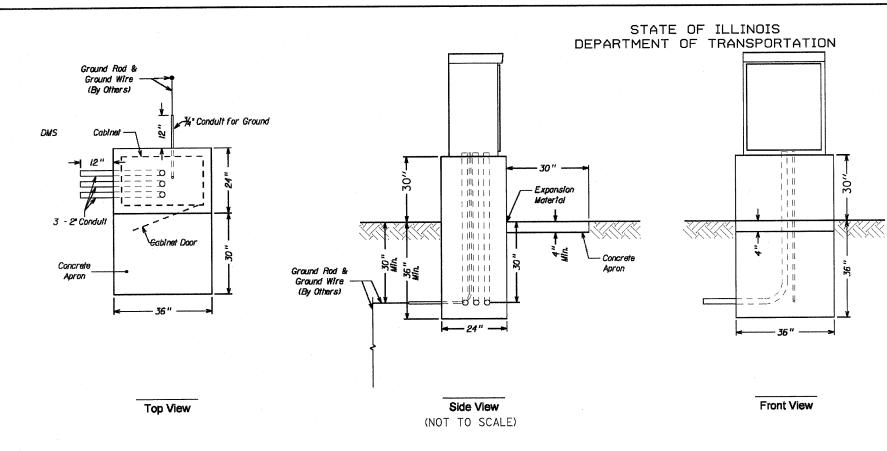
U <sup>-</sup>	TILITY COMPAN'	Y INFORMATI	ON			
NAME OF UTILITY	CONTACT	TELEPHONE	JULIE MEMBER			
AT&T DISTRIBUTION	N/A	630-573-5450	YES 800-892-0123			
CONSOLIDATED UTILITY SERVICES	N/A	N/A	YES 800-892-0123			
IOWA HEALTH SYSTEMS	OSP ENGINEERING GROUP	319-364-3200	YES 800-892-0123			
MIDAMERICAN ENERGY	SCOTT BULL	309-793-3870	YES 800-892-0123			
CITY OF MOLINE	TONY LOETE	309-787-0489	YES 800-892-0123			
QUEST COMMUNICATIONS	KIM JORDAN	800-283-4237	YES 800-892-0123			
MEDIACOM	DENNIS JARDING TERRY PETERSON	309-743-4750 309-944-0139	YES 800-892-0123			
IL DOT ELECTRIC FACILITIES	KYLE LORENZ	815-284-5469	NO			

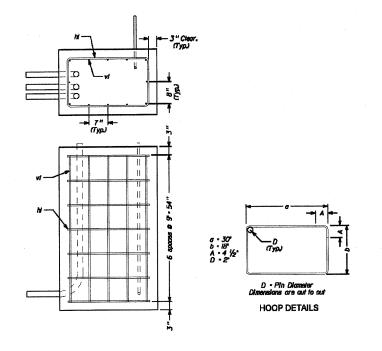






CHEET NO	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO.	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	_	5_
SHEETS			CONTRACT	NO. 64	F86
23		ILLINOIS FED. A	ID PROJECT (	C-92-061-1	0





Reinforcing Details

ENGINEED OF BRIDGES AND STRUCTURES

PASSED

DESIGNED - S. POSKA

CHECKED - G. STUEMPFIG

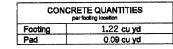
DRAWN - M. BRESSLER

CHECKED - G. STUEMPFIG

DMS CABINET FOOTING NOTES:

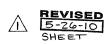
- 1. CENTER DMS CABINET ON FOOTING AND ATTACH WITH PULL OUT ANCHORS.
- 2. CENTER CONDUITS IN THE FOOTING. PRIOR TO POURING THE FOOTING, CONFIRM THAT NO CONFLICTS EXIST BETWEEN THE CONDUIT PLACEMENT AND THE DMS CABINET. MAINTAIN AT LEAST 2" OF CLEARANCE TO THE EDGE OF THE DMS CABINET.
- 3. CAP ALL OPEN ENDS OF CONDUIT BEFORE BACKFILLING. FOR FUTURE REFERENCE, MARK THE LOCATIONS OF ALL CONDUIT ENTERING THE FOOTING ON THE SIDE WHICH THE CONDUIT ENTERS. LOCATE MARKS NEAR THE TOP OF THE FOUNDATION TO ENSURE THEY REMAIN VISIBLE AFTER BACKFILLING AND SHAPING.
- 4. INSTALL SOCKET TYPE BELL ENDS ON CONDUIT PROTRUDING FROM THE FOOTING. FINISHED CONDUIT (INCLUDING BELL END) IS TO PROTRUDE 5 TO 6 INCHES FROM THE TOP OF FOOTING.
- 5. USE CLASS C STRUCTURAL CONCRETE FOR THE FOOTING. MEET THE REQUIREMENTS OF SECTION 503.07 FOR PLACEMENT OF THE CONCRETE. THE TOP OF THE FOOTING IS TO BE LEVEL, AND THE TOP OF EDGES ROUNDED WITH AN EDGER.
- 6. PROVIDE FORMS OF SUFFICIENT STRENGTH TO PREVENT WARPING, BULGING, OR OTHER DEFLECTIONS. REFER TO SECTION 503.06 E FOR ADDITIONAL REQUIREMENTS.
- 7. EPOXY COATED REINFORCEMENT TO MEET THE REQUIREMENTS OF SECTION 508.
- 8. CONDUIT TO MEET THE REQUIREMENTS OF SECTION 1088.
- 9. EXCAVATION, BACKFILLING, AND SITE RESTORATION TO MEET THE REQUIREMENTS OF SECTIONS 202, 208, AND 104.06, RESPECTIVELY.
- 10. THIS WORK WILL BE PAID AS 87800500, CONCRETE FOUNDATION, SPECIAL.
- 11. CONDUITS ENCASED WITHIN THE FOUNDATION SHALL BE INCLUDED IN THE COST OF THE FOUNDATION.

EPOXY COATED REINFORCMENT QUANTITIES par feeting							
BAR OTY SIZE LENGTH WEIGHT							
v1	12	#4	54	36.1			
h1	7	#4	105	40.9			
	Т	otal We	eight.	77.0			



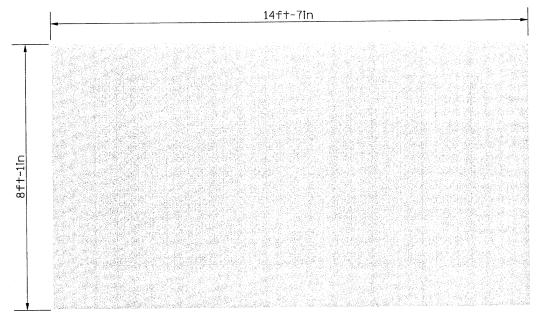


### DMS CABINET FOOTING DETAILS



SHEET NO. 6 SHEETS	F.A. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
	74+280	D2-IT-MESSAGE SIGN		ROCK ISLAND	_	6
		,		CONTRACT	NO. 64	F86
23		ILLINOI	S FED.	AID PROJECT	C-92-061-1	0

### DETAILS OF ROADSIDE DYNAMIC MESSAGE SIGN



#### DIMENSIONAL INFORMATION

MANUFACTURER: SKYLINE
MODEL NUMBER: VMSLED-L-3-18F-27X55-I
TYPE: FULL MATRIX
PIXELS 55 x 27 (WIDTH x HEIGHT)
APPOX. 1400 LBS

HEIGHT: 8'-1" WIDTH: 14'-7" DEPTH: 1'-4"

#### ELECTRICAL INFORMATION

SIGN VOLTAGE: STANDARD 120/240 VOLTS

MAX WATTAGE USE OF SIGN: 3,000 WATTS OR 13 AMPS PER LEG.

(ASSUMPTIONS: 30 DEGREE LED, 100% ON)

NOMINAL WATTAGE USE OF SIGN: 1200 WATTS.

(ASSUMPTIONS: 30% PIXELS ON, FANS OR HEAT TAPE (NOT BOTH))

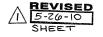
MAIN BREAKER IN SIGN IS RATED FOR: 40 AMPS PER LEG

DMS BREAKER BOX SEPARATED INTO 2 - 120 VOLT LEGS

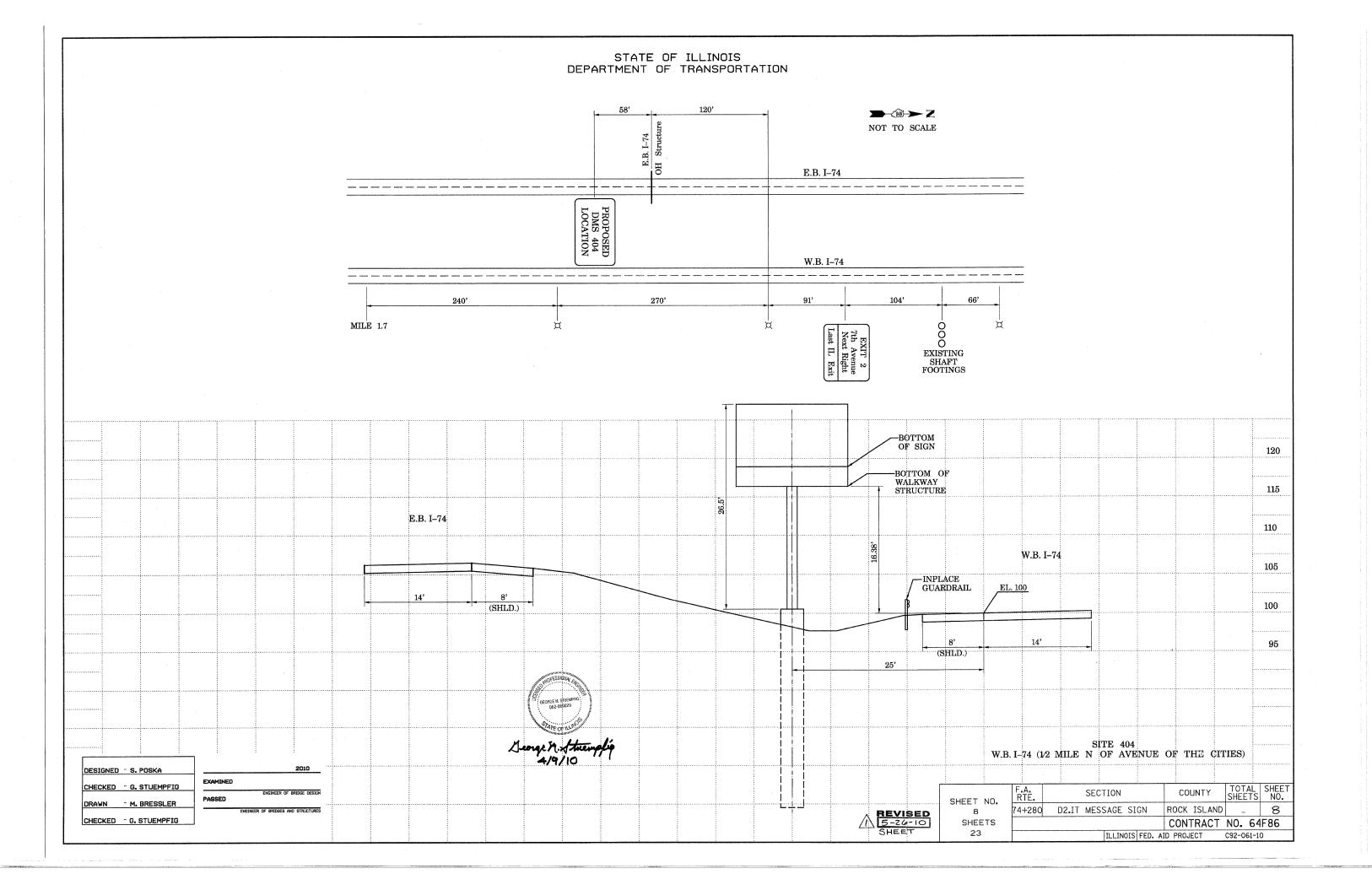


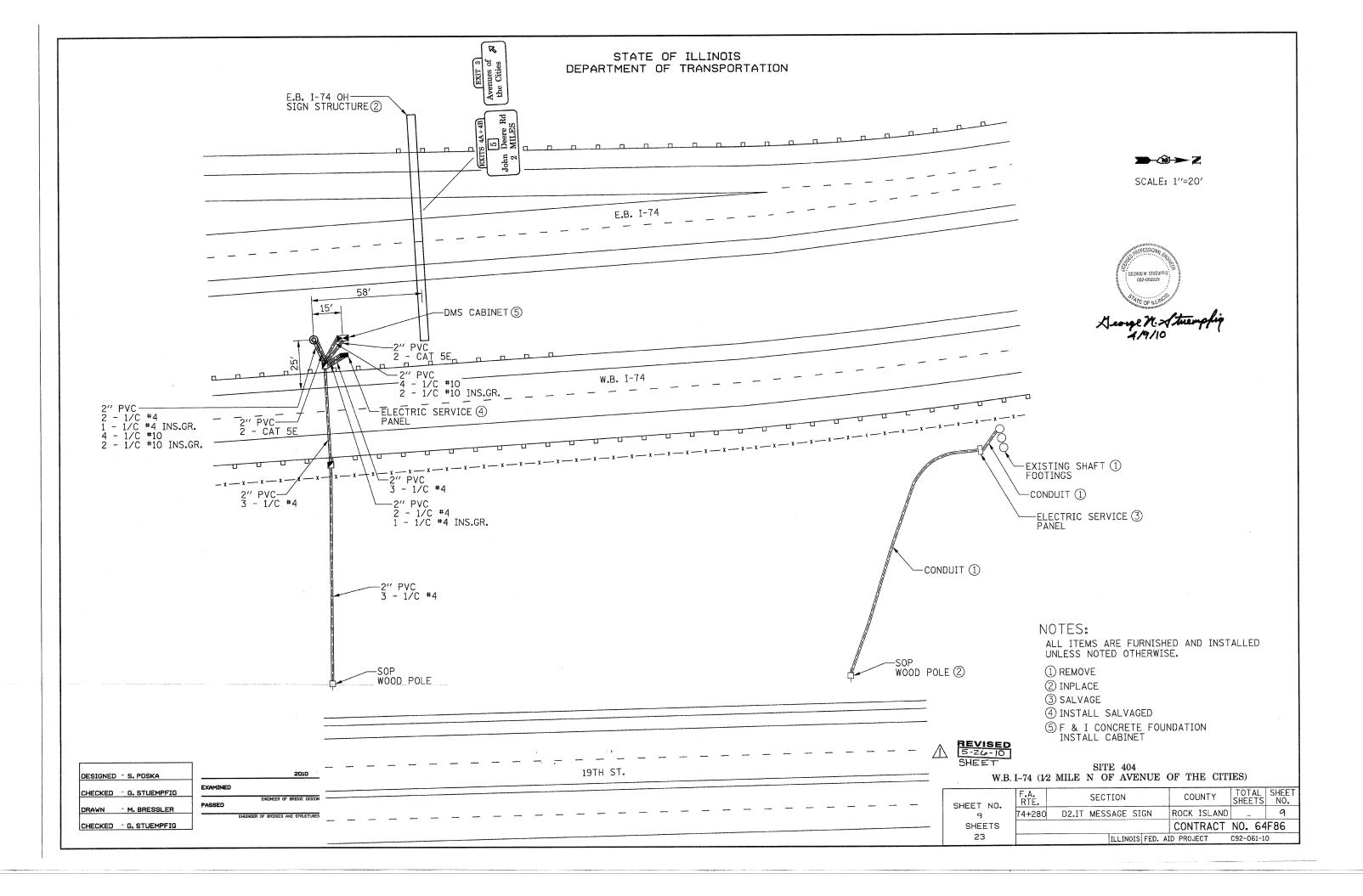
Heory M. Strampfig

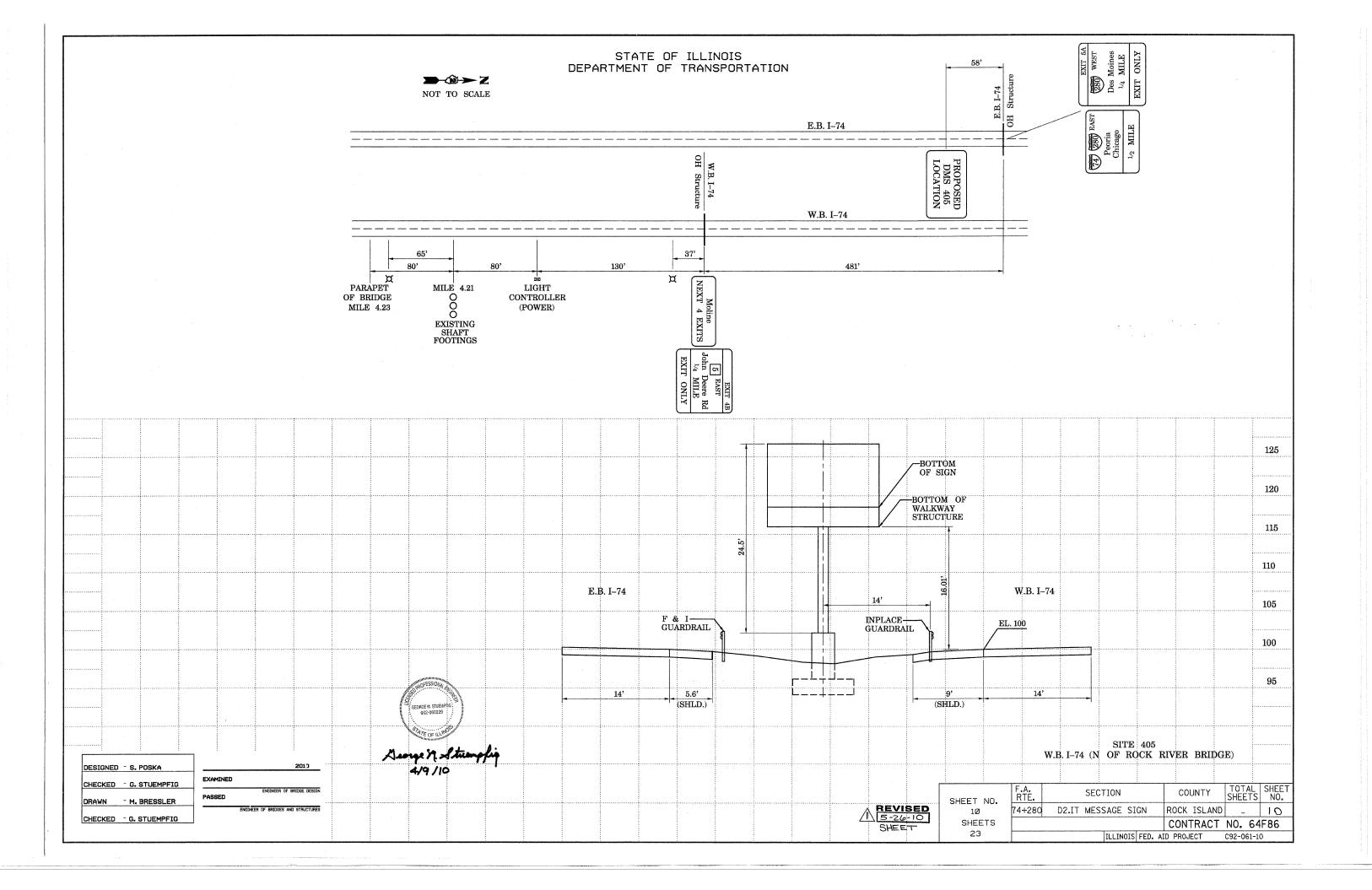
DESIGNED - S. POSKA	2010
CHECKED - G. STUEMPFIG	EXAMINED
CHECKED OF OTOLISTED	ENGINEER OF BRIDGE DESIG
DRAWN M. BRESSLER	PASSED
	ENGINEER OF BRIDGES AND STRUCTURE
CHECKED - G. STUEMPFIG	

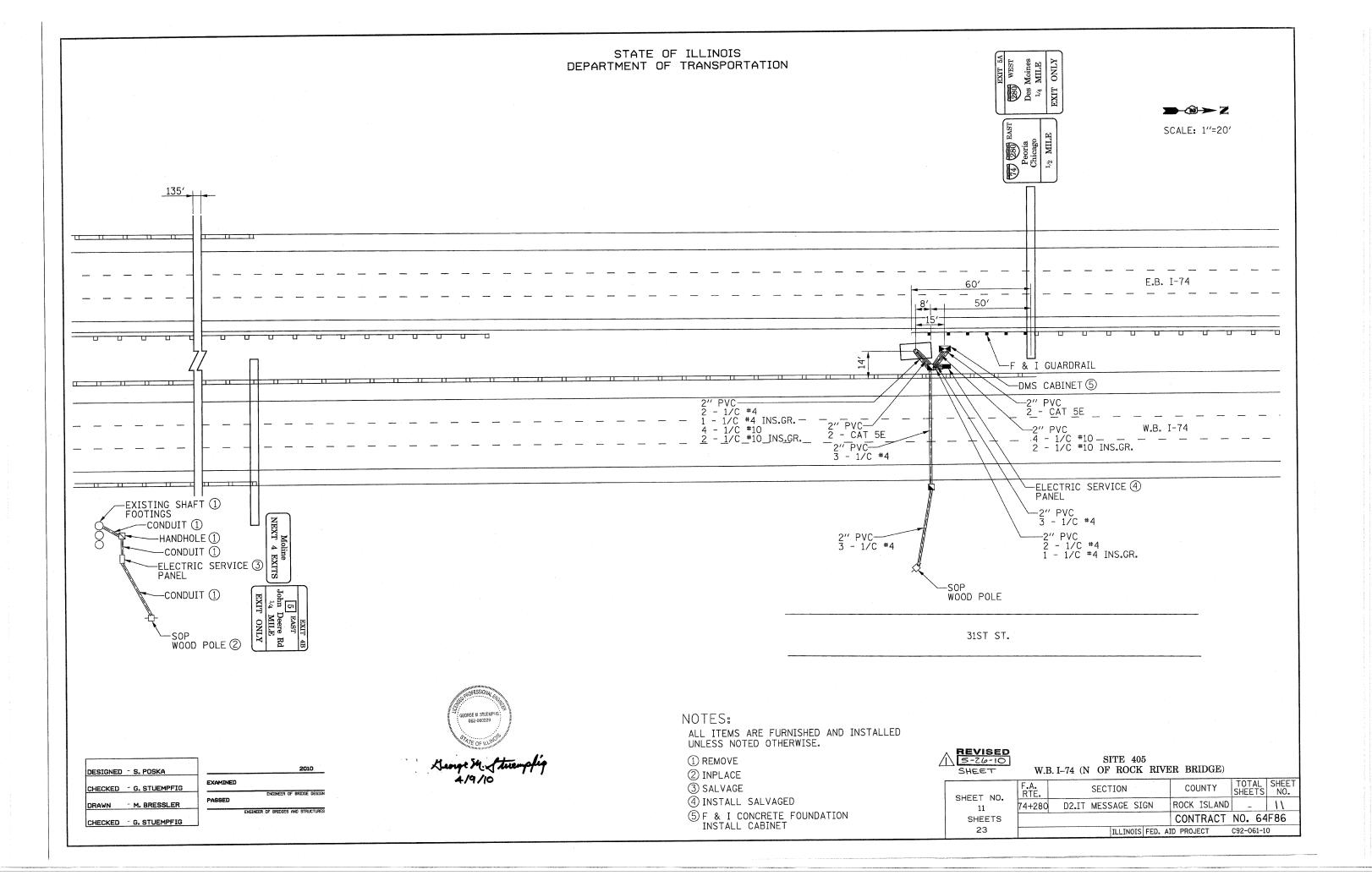


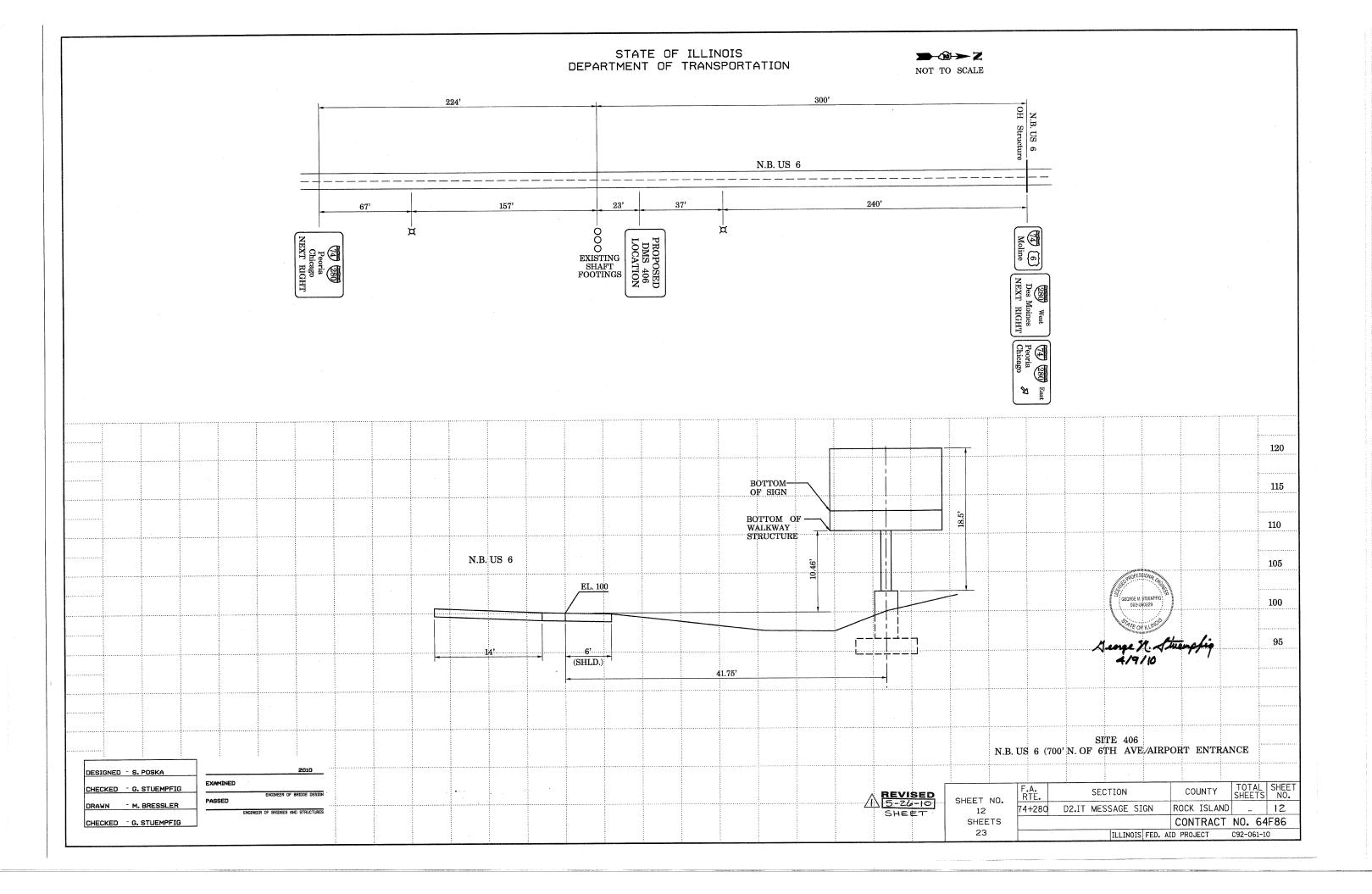
	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHEET NO. 7	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	_	٦
SHEETS			CONTRACT	NO. 64	F86
23		TILINOIS FED. A	ID PROJECT (	2-92-061-1	0

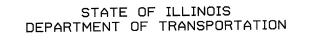




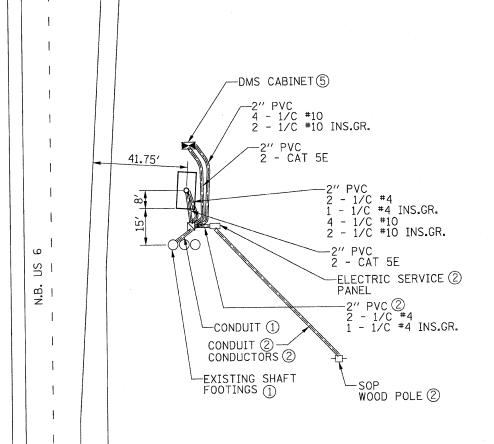












NOTES:

ALL ITEMS ARE FURNISHED AND INSTALLED UNLESS NOTED OTHERWISE.

- ① REMOVE
- ② INPLACE
- 3 SALVAGE
- 4 INSTALL SALVAGED
  5 F & I CONCRETE FOUNDATION INSTALL CABINET

INSTALL CABINET



SITE 406 N.B. US 6 (700' N. OF 6TH AVE/AIRPORT ENTRANCE

SHEET NO.	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	_	13
SHEETS	CONTRACT NO. 64F86				
23		ILLINOIS FED. A	ID PROJECT	C92-061-1	)



DESIGNED - S. POSKA

CHECKED - G. STUEMPFIG

DRAWN - M. BRESSLER

EXAMINED

EXAMINED

PASSED

ENGINEER OF BRIDGE DESIGN
PASSED

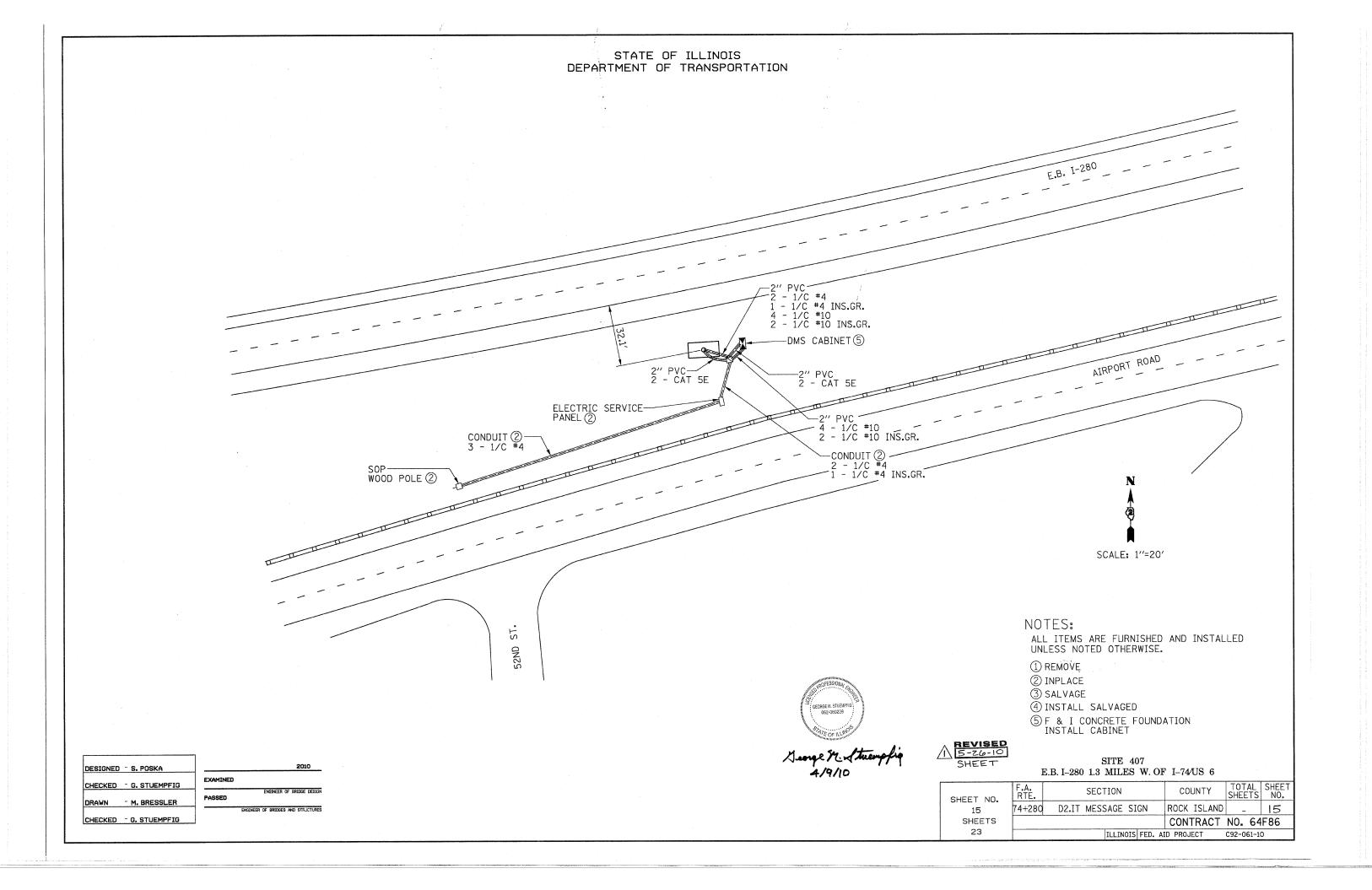
ENGINEER OF BRIDGES AND STRUCTURES

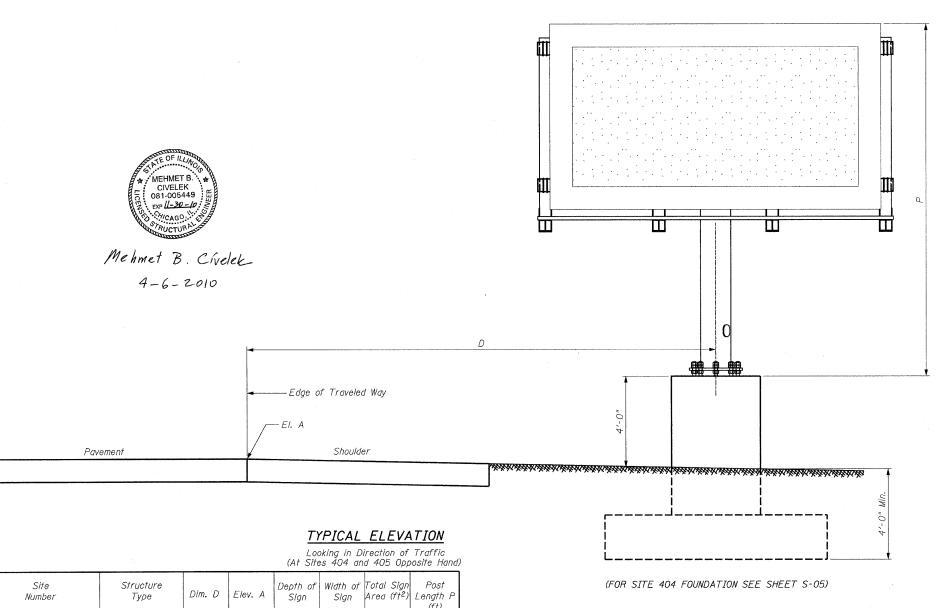
CHECKED - G. STUEMPFIG

2010 A-19/10

ENDINEER OF BRIDGE DESIGN

#### STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION NOT TO SCALE E.B. I-280 500' 500' 120 BOTTOM-OF SIGN BOTTOM OF WALKWAY STRUCTURE 115 110 105 EL. 100 100 95 12' 10.8' (SHLD.) 32.1' SITE 407 E.B. I-280 1.3 MILES W OF I-74/US 6 2010 DESIGNED - S. POSKA REVISED 5-26-10 SHEET TOTAL SHEET SHEETS NO. F.A. RTE. COUNTY SECTION PASSED SHEET NO. DRAWN - M. BRESSLER ROCK ISLAND \_ 14 74+280 D2.IT MESSAGE SIGN 14 CHECKED - G. STUEMPFIG SHEETS CONTRACT NO. 64F86 23 ILLINOIS FED. AID PROJECT C92-061-10





#### GENERAL NOTES

DESIGN: AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals. ("AASHTO Specifications")

CONSTRUCTION: Current (at time of letting) Illinois Department of Transportation Standard Specifications for Road and Bridge Construction, Supplemental Specifications and Special Provisions. ("Standard Specifications")

LOADING: 90 M.P.H. WIND VELOCITY

WALKWAY LOADING: Dead load plus 500 lbs. concentrated live load.

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 p.s.i.
fy = 60,000 p.s.i. (reinforcement)

WELDING: All welds to be continuous unless otherwise shown. All welding to be done in accordance with current AWS D1.1 and D1.2 Structural Welding Codes (Steel and Aluminum) and the Standard Specifications.

MATERIALS: All Structural Steel Pipe shall be ASTM A53 Grade B or A500 Grade B. If A500 pipe is substituted for A53, then the outside diameter shall be as detailed and wall thickness greater than or equal to A53.

All Structural Steel Plates and Shapes shall conform to AASHTO M270 Gr. 36. Gr. 50 or Gr. 50W\* (M183, M223 Gr. 50, or M222). Stainless steel for shims, sleeves and handhole covers shall be ASTM A240, Type 302 or 304, or another alloy suitable for exterior exposure and acceptable to the Engineer.

The steel pipe shall have a minimum longitudinal Charpy V-Notch (CVN) energy of 15 lb.-ft. at 40° F. (Zone 2) before galvanizing.

FASTENERS: All bolts noted as "high strength" must satisfy the requirements of AASHTO M164 (ASTM A325), or approved alternate, and must have matching lock nuts. Threaded studs for splices (if Members interfere) must satisfy the requirements of ASTM A449, ASTM A193, Grade B7. or approved alternate, and must have matching lock nuts. Bolts and lock nuts not required to be high strength must satisfy the requirements of ASTM A307. All bolts and lock nuts must be hot dip galvanized per AASHTO M232. The lock nuts must have nylon or steel inserts. A stainless steel flat washer conforming to ASTM A240 Type 302 or 304, Is required under both head and nut or under both nuts where threaded studs are used. High strength bolt Installation shall conform to Article 505.04 (f) (2)d of the IDOT Standard Specifications for Road and Bridge Construction. Rotational capacity ("ROCAP") testing of bolts will not be required.

U-BOLTS AND EYEBOLTS: U-Bolts and Eyebolts must be produced from ASTM A276 Type 304, 304L, 316 or 316L, Condition A, cold finished stainless steel, or an equivalent material acceptable to the Engineer. All nuts for U-Bolts and Eyebolts must be lock nuts equivalent to ASTM A307 with nylon or steel inserts and hot dip galvanized per AASI:TO M232. A stainless steel flat washer conforming to ASTM A240, Type 302 or 304, is required under each U-Bolt and Eyebolt lock nut.

GALVANIZING: All Steel Grating, Plates, Shapes and Pipe shall be Hot Dip Galvanized after fabrication in accordance with AASHTO M111. Painting is not permitted. Provide vent holes for galvanizing.

ANCHOR RODS: Shall conform to AASHTO M314 Gr. 105 with a minimum Charpy V-Notch (CVN) energy of 15 lb.-ft. at  $10^{\circ}$  F.

CONCRETE SURFACES: All concrete surfaces above an elevation 6" below the lowest final ground line at each foundation shall be cleaned and coated with Bridge Seat Sealer in accordance with the Standard Specifications.

REINFORCEMENT BARS: Reinforcement Bars designated (E) shall be epoxy coated in accordance with the Standard Specifications.

FOUNDATIONS: The contract unit price for Concrete Foundations or Drilled Shaft Concrete Foundations shall include reinforcement bars complete in place.

\* If M270 Gr. 50W (M222) steel is proposed, chemistry for plate to be used shall first be approved by the Engineer as suitable for galvanizing and welding.

### REVISED 5-26-10

SHEET

# ROADSIDE D.M.S. STRUCTURES GENERAL PLAN & ELEVATION STEEL SIGN SUPPORTS

. !	DESIGNED	MBC			200
	CHECKED	KLG	EXAMINED		
	DBAWN	F.ID	PASSED	ENGINEER OF BF	IDGE DESIGN

404

405

406

CHECKED KLG

DMS Butterfly

DMS Butterfly

DMS Butterfly

DMS Butterfly

NUMBER	<i>REVISION</i>	DATE
	The state of the s	

8'-1<sup>5</sup>8" 8'-1<sup>5</sup>8"

8'-1<sup>5</sup>8" 8'-1<sup>5</sup>8" 14'-7"

14'-7"

14'-7

14'-7"

119

119

119

24.5

28.5

100

100

100

100

TOTAL BILL OF MATERIAL		
ITEM	UNIT	TOTAL
OVERHEAD SIGN STRUCTURE-BUTTERFLY	Foot	63
OVERHEAD SIGN STRUCTURE-WALKWAY	Foot	63
CONCRETE FOUNDATIONS	Cu. Yds.	35
DRILLED SHAFT CONCRETE FOUNDATIONS	Cu. Yds.	7
ROCK EXCAVATION FOR STRUCTURES	Cu. Yds.	71

TOTAL DILL OF MATERIAL

SHEET NO. 16	F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	74+280	D2.IT MESSAGE SIGN	ROCK ISLAND	_	16
SHEETS	CONTRACT NO. 64F86				
23	ILLINOIS FED. AID PROJECT C-92-061-10				

