

0042

100% CITY

SUMMARY OF QUANTITIES

•• PPS 6-00571-0000, 3P, STA 2260+37.05 TO STA 2461+41.57= STA 16+83.00
••• PPS 6-73370-0000, NEW CONSTRUCTION / RE-CONSTRUCTION, STA 16+83.00 TO STA 100+60.00
•••• PPS 6-00674-0000, 3P, STA 100+60.00 TO STA 237+19.16, US 67 STA 151+34.00 TO 171+21.00

STP - RURAL - STATE

NHPP-STATE STP-STATE

Table with columns: CODE NO., ITEM, UNIT, TOTAL QUANTITY, PIKE ** (ROADWAY 0005), PIKE *** (ROADWAY 0001), PIKE *** (MC GEE CREEK BRIDGE SN 075-0128), MORGAN *** (ROADWAY 0001, ILLINOIS RIVER BRIDGE SN 069-0525, WASHINGTON ST BRIDGE SN 069-0522, RET WALL SN 069-7900), MORGAN **** (ROADWAY 0005), MORGAN **** (ROADWAY 0005), MORGAN **** (SIDEWALK 0021).

0.020 0.967 0.013

Rev. 1-7-15

FILE NAME: ... USER NAME: ... DESIGNED: JB ... REVISIONS: ...

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 745 / IL ROUTE 104

SUMMARY OF QUANTITIES 8

Table with columns: F.A.P. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO., CONTRACT NO.

△ 0042

100% CITY

SUMMARY OF QUANTITIES

** PPS 6-00571-0000, 3P, STA 2260+37.05 TO STA 2461+41.57= STA 16+83.00
 *** PPS 6-73370-0000, NEW CONSTRUCTION / RE-CONSTRUCTION, STA 16+83.00 TO STA 100+60.00
 **** PPS 6-00674-0000, 3P, STA 100+60.00 TO STA 237+19.16, US 67 STA 151+34.00 TO 171+21.00

STP - RURAL - STATE

NHPP-STATE STP-STATE

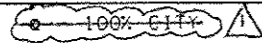
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PIKE **	PIKE ***	PIKE ****	MORGAN *****				MORGAN *****	MORGAN *****	MORGAN *****
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED / 20% STATE			80% FED 20% CITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% CITY
				ROADWAY 0005	ROADWAY 0001	MC GEE CREEK BRIDGE SN 075-0128 0014	ROADWAY 0001	ILLINOIS RIVER BRIDGE SN 069-0525 0010	WASHINGTON ST BRIDGE SN 069-0522 0008	RET WALL SN 069-7900 SN 069-7901 0040	SIDEWALK 0021	ROADWAY 0005	ROADWAY 0005
60240301	INLETS, TYPE B, TYPE B GRATE	EACH	9				9						
60255500	MANHOLES TO BE ADJUSTED	EACH	1				1						
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	2				2						
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	50				50						
60500040	REMOVING MANHOLES	EACH	10				10						
60500050	REMOVING CATCH BASINS	EACH	4				4						
60500060	REMOVING INLETS	EACH	33		2		28					3	
60500105	FILLING MANHOLES	EACH	1				1						
60600605	CONCRETE CURB, TYPE B	FOOT	185.0				185.0						
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	636.5				636.5						
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	4,300.5				3,016.0					272.5	212.0
60606200	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-9.12 (MODIFIED)	FOOT	612.0				612.0						
60608600	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.06	FOOT	52.0		19.0		33.0						
60610400	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-6.24	FOOT	58.5		30.5		28.0						

Rev. 1-7-15

\\F5-0044\ADMIN\WILL.L.D-15646.DWG TRUCK 00202341-02 CIVIL \CADD\226583\SET 0572854-SHT-5001.DGN
 \\F5-0044\ADMIN\WILL.L.D-15646.DWG TRUCK 00202341-02 CIVIL \CADD\226583\SET 0572854-SHT-5001.DGN
 \\F5-0044\ADMIN\WILL.L.D-15646.DWG TRUCK 00202341-02 CIVIL \CADD\226583\SET 0572854-SHT-5001.DGN

FILE NAME *	USER NAME * USER*	DESIGNED - JB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 745 / IL ROUTE 104		SUMMARY OF QUANTITIES 14		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	exp U.S. Services Inc.	DRAWN - MDN	REVISED -					745	108RS-6, 123RS-3, *	MORGAN/PIKE	782	18
exp	CONSULTANTS IN ENVIRONMENT-ENERGY & INFRASTRUCTURE SUSTAINABILITY	CHECKED - MD	REVISED -					* 123R-2, 124RS-9		CONTRACT NO. 72858		
PLOT SCALE * #SCALE#	PLOT DATE * #DATE#	DATE - 8/5/2014	REVISED -	SCALE:	SHEET	OF	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

Δ 0042



SUMMARY OF QUANTITIES

** PPS 6-00571-0000, 3P, STA 2260+37.05 TO STA 2461+41.57= STA 16+83.00
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 **** PPS 6-00674-0000, 3P, STA 100+60.00 TO STA 237+19.16, US 67 STA 151+34.00 TO 171+21.00

STP - RURAL - STATE

NHPP-STATE STP-STATE

PIKE **	PIKE ***	PIKE ***	MORGAN ***				MORGAN ****	MORGAN ****	MORGAN ****	
80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED / 20% STATE				80% FED 20% CITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% CITY
ROADWAY 0005	ROADWAY 0001	MCGEE CREEK BRIDGE SN 075-0128 0014	ROADWAY 0001	ILLINOIS RIVER BRIDGE SN 069-0525 0010	WASHINGTON ST BRIDGE SN 069-0522 0008	RET WALL SN 069-7900 SN 069-7901 0040	SIDEWALK 0021	ROADWAY 0005	ROADWAY 0005	SIDEWALK 0021

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005	ROADWAY 0001	MCGEE CREEK BRIDGE SN 075-0128 0014	ROADWAY 0001	ILLINOIS RIVER BRIDGE SN 069-0525 0010	WASHINGTON ST BRIDGE SN 069-0522 0008	RET WALL SN 069-7900 SN 069-7901 0040	SIDEWALK 0021	ROADWAY 0005	ROADWAY 0005	SIDEWALK 0021
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	4,138		151		3,987							
60620000	CONCRETE MEDIAN, TYPE SB-6.24	SO FT	90				90							
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	3,975.0	2,750.0	1,200.0		25.0							
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	14	6	6		2							
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	8		6		2							
63200310	GUARDRAIL REMOVAL	FOOT	6,735	3,014	3,590		131							
* 63300575	REMOVE AND REERECT RAIL ELEMENT OF EXISTING GUARDRAIL	FOOT	662.5	400.0	262.5									
* 63301990	REMOVE AND REERECT TRAFFIC BARRIER TERMINALS, TYPE 1	EACH	12	12										
66400305	CHAIN LINK FENCE, 6'	FOOT	117				117							
66407800	CHAIN LINK GATES, 6' X 16' DOUBLE	EACH	1				1							
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	41		35		6							
66700205	PERMANENT SURVEY MARKERS, TYPE I	EACH	24	4	9		4					7		
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	31,267				9480	14,153				7634		△
* 66900205	SPECIAL WASTE DISPOSAL	CU YD	5,000					5,000						

Rev. 1-7-15

\06\2658-B0608001.DGN, \1637985B-LEGE001.DGN, \16728268-0201.DGN, \16728268-0202.DGN, \16728268-0203.DGN, \16728268-0204.DGN, \16728268-0205.DGN, \16728268-0206.DGN, \16728268-0207.DGN, \16728268-0208.DGN, \16728268-0209.DGN, \16728268-0210.DGN, \16728268-0211.DGN, \16728268-0212.DGN, \16728268-0213.DGN, \16728268-0214.DGN, \16728268-0215.DGN, \16728268-0216.DGN, \16728268-0217.DGN, \16728268-0218.DGN, \16728268-0219.DGN, \16728268-0220.DGN, \16728268-0221.DGN, \16728268-0222.DGN, \16728268-0223.DGN, \16728268-0224.DGN, \16728268-0225.DGN, \16728268-0226.DGN, \16728268-0227.DGN, \16728268-0228.DGN, \16728268-0229.DGN, \16728268-0230.DGN, \16728268-0231.DGN, \16728268-0232.DGN, \16728268-0233.DGN, \16728268-0234.DGN, \16728268-0235.DGN, \16728268-0236.DGN, \16728268-0237.DGN, \16728268-0238.DGN, \16728268-0239.DGN, \16728268-0240.DGN, \16728268-0241.DGN, \16728268-0242.DGN, \16728268-0243.DGN, \16728268-0244.DGN, \16728268-0245.DGN, \16728268-0246.DGN, \16728268-0247.DGN, 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\16728268-0498.DGN, \16728268-0499.DGN, \16728268-0500.DGN

FILE NAME *	USER NAME * #USER#	DESIGNED - JB	REVISED -
#FILE#		DRAWN - MDN	REVISED -
exp. U.S. Services Inc.		CHECKED - MD	REVISED -
CONTRACT NO. 123B-2, 124RS-8		DATE - 8/5/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 FAP ROUTE 745 / IL ROUTE 104

SUMMARY OF QUANTITIES 15	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	19
* 123B-2, 124RS-8		CONTRACT NO.	72858	
ILLINOIS FED. AID PROJECT				

* SPECIALTY ITEM

Rev.

Δ 0042

100% CITY

SUMMARY OF QUANTITIES

** PPS 6-00571-0000, 3P, STA 2260+37.05 TO STA 2461+41.57= STA 16+83.00
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 **** PPS 6-00674-0000, 3P, STA 100+60.00 TO STA 237+19.16, US 67 STA 151+34.00 TO 171+21.00

STP - RURAL - STATE

NHPP-STATE STP-STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP - RURAL - STATE										
				PIKE **	PIKE ***	PIKE ****	MORGAN ****				MORGAN ****	MORGAN ****	MORGAN ****	
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED / 20% STATE				80% FED 20% CITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% CITY
			ROADWAY	ROADWAY	MCGEE CREEK BRIDGE SN 075-0128	ROADWAY	ILLINOIS RIVER BRIDGE SN 069-0525	WASHINGTON ST BRIDGE SN 069-0522	RET WALL SN 069-7900	SIDEWALK	ROADWAY	ROADWAY	SIDEWALK	
				0005	0001	0014	0001	0010	0008	0040	0021	0005	0005	0021
* 66900210	HAZARDOUS WASTE DISPOSAL	CU YD	1,000				1,000							
* 66900450	SPECIAL WASTE PLANS AND REPORTS	L SUM	1		0.3		0.5					0.2		1
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	5		1		3					1		1
* 66901000	BACKFILL PLUGS	CU YD	40									40		1
67000600	ENGINEER'S FIELD LABORATORY	CAL MO	48				24							
67100100	MOBILIZATION	L SUM	1	0.2	0.2		0.4					0.1	0.1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1				1							
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	0.2	0.2		0.4					0.1	0.1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	0.2	0.2		0.4					0.1	0.1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	0.2	0.4		0.4							
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	0.2	0.2		0.4					0.1	0.1	
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1				1							
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	200				100							
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1				1							
70106800	CHANGEABLE MESSAGE SIGN	CAL MO	24				12							

Rev 1-7-15

\G:\27858-6000\B1\DCN_10672658-1\LEGEND.DGN_10672658-2\01.DGN
 8-20-2014, 13:30:25 NEWARK, NJ 07102 CIVIL CAD\27858\ASHEET\0672658-SHT-5021.DGN

FILE NAME *	USER NAME * USER*	DESIGNED - JB	REVISED -
FILE#		DRAWN - MDN	REVISED -
EXP. U.S. Service Inc.		CHECKED - MD	REVISED -
INDUSTRIAL AND ENVIRONMENT ENERGY		DATE - 8/5/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 FAP ROUTE 745 / IL ROUTE 104

SUMMARY OF QUANTITIES 16
 SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	20
	* 123B-2, 124RS-8	CONTRACT NO. 72658		

* SPECIALTY ITEM

REV.

Δ 0042

100% CITY

SUMMARY OF QUANTITIES

** PPS 6-00571-0000, 3P, STA 2260+37.05 TO STA 2461+41.57= STA 16+83.00
 *** PPS 6-73370-0000, NEW CONSTRUCTION / RE-CONSTRUCTION, STA 16+83.00 TO STA 100+60.00
 **** PPS 6-00674-0000, 3P, STA 100+60.00 TO STA 237+19.16. US 67 STA 151+34.00 TO 171+21.00

STP - RURAL - STATE

NHPP-STATE STP-STATE

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	STP - RURAL - STATE										
				PIKE **	PIKE ***	PIKE ****	MORGAN ***			MORGAN ****	MORGAN *****	MORGAN *****		
				80% FED 20% STATE	80% FED 20% STATE	80% FED 20% STATE	80% FED / 20% STATE			80% FED 20% CITY	80% FED 20% STATE	80% FED 20% STATE	80% FED 20% CITY	
			ROADWAY	ROADWAY	MCGEE CREEK BRIDGE SN 075-0128	ROADWAY	ILLINOIS RIVER BRIDGE SN 069-0525	WASHINGTON ST BRIDGE SN 069-0522	RET WALL SN 069-7900 SN 069-7901	SIDEWALK	ROADWAY	ROADWAY	SIDEWALK	
				0005	0001	0014	0001	0010	0008	0040	0021	0005	0005	0021
X5210340	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 500K	EACH	12					12						
X5210350	HIGH LOAD MULTI-ROTATIONAL BEARINGS, FIXED - 600K	EACH	12					12						
<input type="checkbox"/> X5420618	PIPE CULVERTS TO BE CLEANED 18"	FOOT	44	44										
<input type="checkbox"/> X5420624	PIPE CULVERTS TO BE CLEANED 24"	FOOT	70									70		
<input type="checkbox"/> X5420630	PIPE CULVERTS TO BE CLEANED 30"	FOOT	406	141								265		
X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	317.3			195.3		122						
X6020074	INLETS, TYPE A, TYPE 3V FRAME AND GRATE	EACH	13				13							
X6020075	INLETS, TYPE B, TYPE 3V FRAME AND GRATE	EACH	18				18							
<input type="checkbox"/> X6026051	SANITARY MANHOLES TO BE RECONSTRUCTED	EACH	5											
X6100230	TYPE F INLET BOX, STANDARD 610001 (SPECIAL)	EACH	2		2									
X6670105	PERMANENT SURVEY MARKERS (SPECIAL)	EACH	1		1									
X6700410	ENGINEER'S FIELD OFFICE, TYPE A (SPECIAL)	CAL MO	48	6	18		18					3	3	
X7240300	SIGN REMOVAL	EACH	2									2		
X8110454	CONDUIT ATTACHED TO STRUCTURE, 1" DIA., STAINLESS STEEL	FOOT	20				20							

5

Rev. 1-7-15

N:\072858-6008\0001.DGN, N:\072858-6008\LEGEND.DGN, N:\072858-6008\SC01.DGN, N:\072858-6008\SC02.DGN, N:\072858-6008\SC03.DGN, N:\072858-6008\SC04.DGN, N:\072858-6008\SC05.DGN, N:\072858-6008\SC06.DGN, N:\072858-6008\SC07.DGN, N:\072858-6008\SC08.DGN, N:\072858-6008\SC09.DGN, N:\072858-6008\SC10.DGN, N:\072858-6008\SC11.DGN, N:\072858-6008\SC12.DGN, N:\072858-6008\SC13.DGN, N:\072858-6008\SC14.DGN, N:\072858-6008\SC15.DGN, N:\072858-6008\SC16.DGN, N:\072858-6008\SC17.DGN, N:\072858-6008\SC18.DGN, N:\072858-6008\SC19.DGN, N:\072858-6008\SC20.DGN, N:\072858-6008\SC21.DGN, N:\072858-6008\SC22.DGN, N:\072858-6008\SC23.DGN, N:\072858-6008\SC24.DGN, N:\072858-6008\SC25.DGN, N:\072858-6008\SC26.DGN, N:\072858-6008\SC27.DGN, N:\072858-6008\SC28.DGN, N:\072858-6008\SC29.DGN, N:\072858-6008\SC30.DGN, N:\072858-6008\SC31.DGN, N:\072858-6008\SC32.DGN, N:\072858-6008\SC33.DGN, N:\072858-6008\SC34.DGN, N:\072858-6008\SC35.DGN, N:\072858-6008\SC36.DGN, N:\072858-6008\SC37.DGN, N:\072858-6008\SC38.DGN, N:\072858-6008\SC39.DGN, N:\072858-6008\SC40.DGN, N:\072858-6008\SC41.DGN, N:\072858-6008\SC42.DGN, N:\072858-6008\SC43.DGN, N:\072858-6008\SC44.DGN, N:\072858-6008\SC45.DGN, N:\072858-6008\SC46.DGN, N:\072858-6008\SC47.DGN, N:\072858-6008\SC48.DGN, N:\072858-6008\SC49.DGN, N:\072858-6008\SC50.DGN, N:\072858-6008\SC51.DGN, N:\072858-6008\SC52.DGN, N:\072858-6008\SC53.DGN, N:\072858-6008\SC54.DGN, N:\072858-6008\SC55.DGN, N:\072858-6008\SC56.DGN, N:\072858-6008\SC57.DGN, N:\072858-6008\SC58.DGN, N:\072858-6008\SC59.DGN, N:\072858-6008\SC60.DGN, N:\072858-6008\SC61.DGN, N:\072858-6008\SC62.DGN, N:\072858-6008\SC63.DGN, N:\072858-6008\SC64.DGN, N:\072858-6008\SC65.DGN, N:\072858-6008\SC66.DGN, N:\072858-6008\SC67.DGN, N:\072858-6008\SC68.DGN, N:\072858-6008\SC69.DGN, N:\072858-6008\SC70.DGN, N:\072858-6008\SC71.DGN, N:\072858-6008\SC72.DGN, N:\072858-6008\SC73.DGN, N:\072858-6008\SC74.DGN, N:\072858-6008\SC75.DGN, N:\072858-6008\SC76.DGN, N:\072858-6008\SC77.DGN, N:\072858-6008\SC78.DGN, N:\072858-6008\SC79.DGN, N:\072858-6008\SC80.DGN, N:\072858-6008\SC81.DGN, N:\072858-6008\SC82.DGN, N:\072858-6008\SC83.DGN, N:\072858-6008\SC84.DGN, N:\072858-6008\SC85.DGN, N:\072858-6008\SC86.DGN, N:\072858-6008\SC87.DGN, N:\072858-6008\SC88.DGN, N:\072858-6008\SC89.DGN, N:\072858-6008\SC90.DGN, N:\072858-6008\SC91.DGN, N:\072858-6008\SC92.DGN, N:\072858-6008\SC93.DGN, N:\072858-6008\SC94.DGN, N:\072858-6008\SC95.DGN, N:\072858-6008\SC96.DGN, N:\072858-6008\SC97.DGN, N:\072858-6008\SC98.DGN, N:\072858-6008\SC99.DGN, N:\072858-6008\SC100.DGN

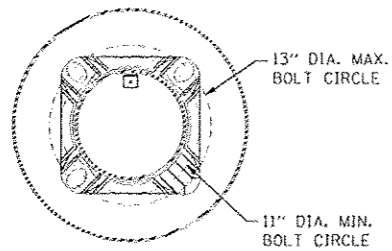
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#FILE#		DRAWN - MON	REVISED -
EXP		CHECKED - MD	REVISED -
		DATE - 8/5/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 FAP ROUTE 745 / IL ROUTE 104

SUMMARY OF QUANTITIES 24	
SCALE:	SHEET OF SHEETS STA. TO STA.

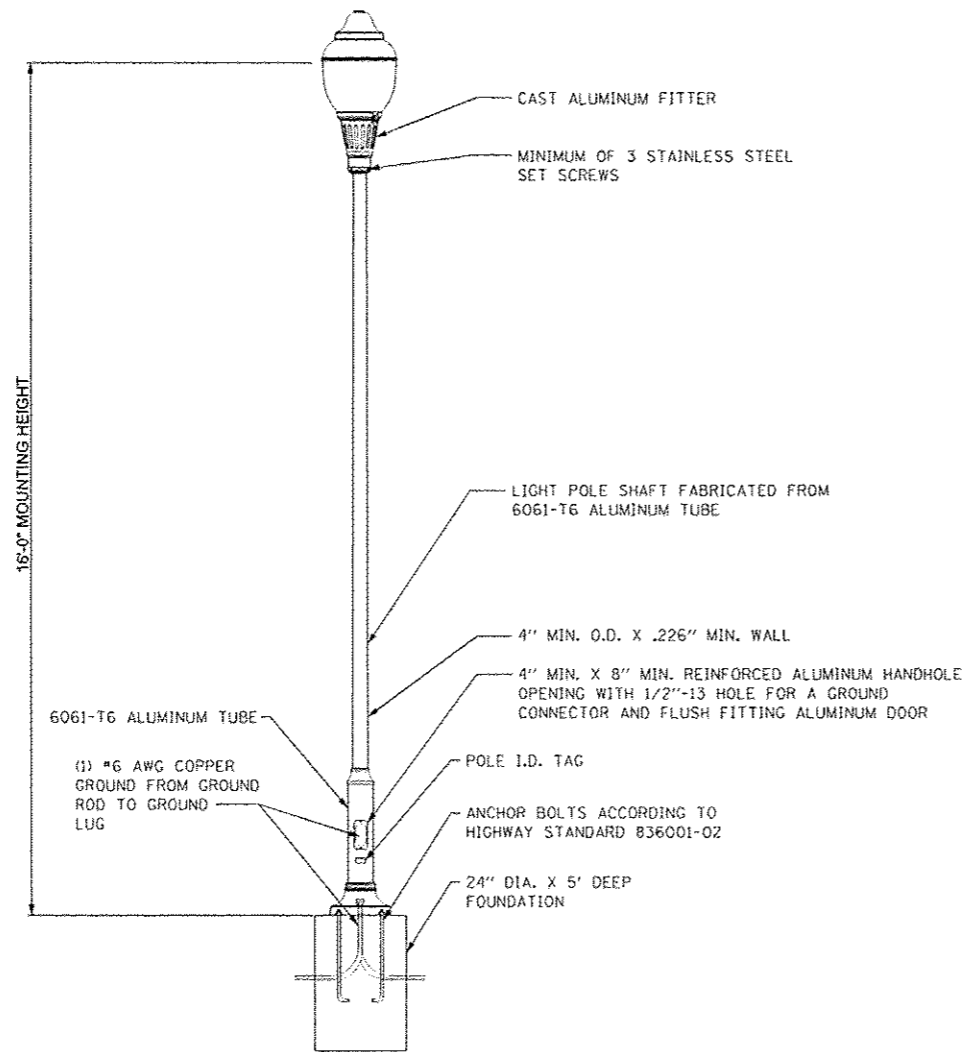
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	28
		CONTRACT NO. 72858	ILLINOIS FED. AID PROJECT	

NON-PART. (100% STATE)



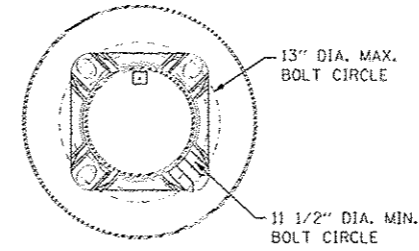
DETAIL A

- NOTES**
1. ALL FINISHES SHALL BE BLACK.
 2. VOIDS IN LIGHT POLE BASE SHALL BE SEALED TO PREVENT RODENT ENTRY.
 3. SEE HIGHWAY STANDARD 821101 FOR LUMINAIRE WIRING.
 4. UNITS SHALL BE MANUFACTURED ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED. LIGHT POLES SHALL BE DESIGNED FOR 90 MPH WIND VELOCITY AND A MINIMUM DESIGN LIFE OF 50 YEARS.
 5. POLES SHALL BE DESIGNED TO WITHSTAND LOADINGS OF A 60 LB. LUMINAIRE WITH AN EPA OF 2.17 SQ. FT. INCLUDING BANNERS, FLAGS, AND ALL ATTACHMENTS.

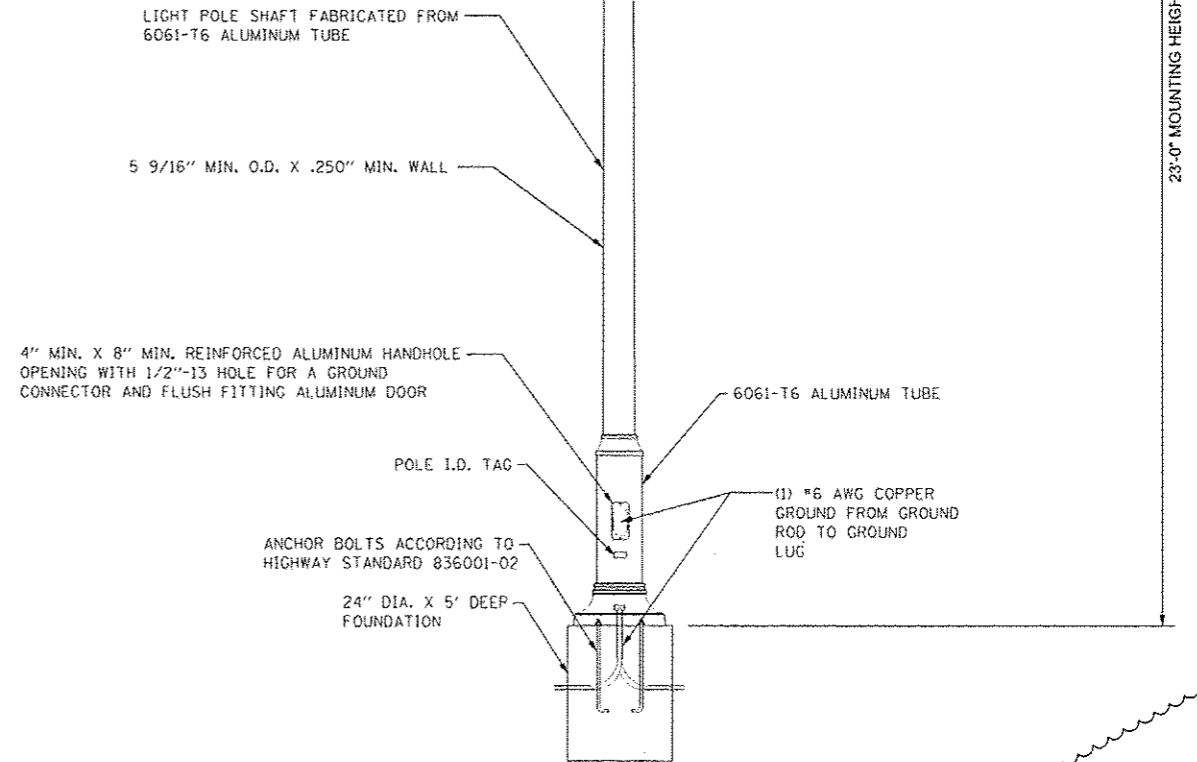


ORNAMENTAL LIGHT UNIT, COMPLETE

- NOTES**
1. ALL FINISHES SHALL BE BLACK.
 2. VOIDS IN LIGHT POLE BASE SHALL BE SEALED TO PREVENT RODENT ENTRY.
 3. SEE HIGHWAY STANDARD 821101 FOR LUMINAIRE WIRING.
 4. UNITS SHALL BE MANUFACTURED ACCORDING TO AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" CURRENT AT THE TIME THE PROJECT IS ADVERTISED. LIGHT POLES SHALL BE DESIGNED FOR 90 MPH WIND VELOCITY AND A MINIMUM DESIGN LIFE OF 50 YEARS.
 5. POLES SHALL BE DESIGNED TO WITHSTAND LOADINGS OF A 49 LB. LUMINAIRE WITH AN EPA OF 1.64 SQ. FT. INCLUDING BANNERS, FLAGS, AND ALL ATTACHMENTS.



DETAIL A



LIGHTING UNIT COMPLETE, SPECIAL
(NOT TO SCALE)

\CS\72558-BORDER.DGN
 11-17-2014 17:01:20
 NEWNANO
 \VFS-0844\LANVAULT-0-TRANS_07\71ROCK\AR012341-02\CIVIL\ADRY72858\SHEET\ADRY72858-SHT-1.LIGHT303.DGN

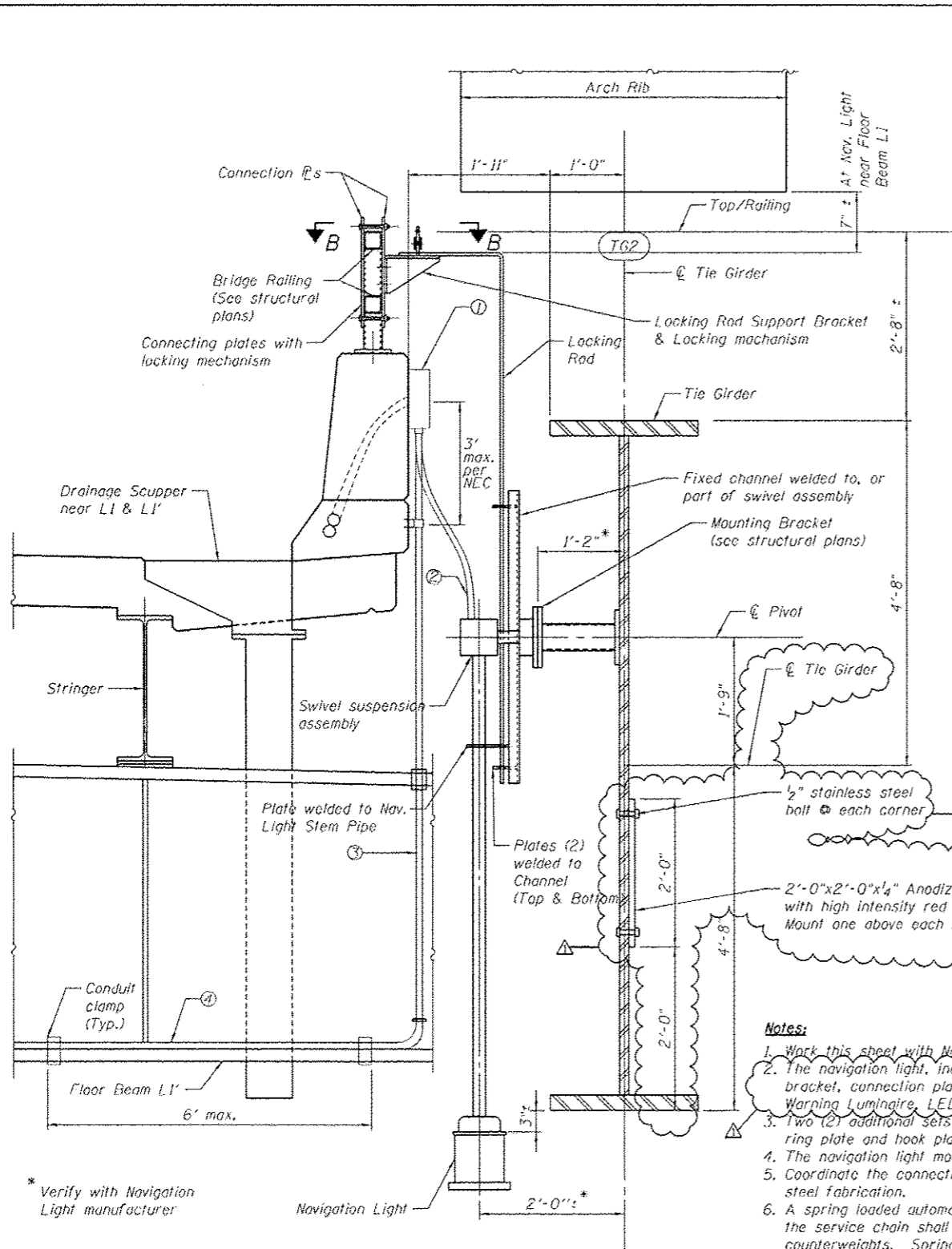
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#FILE#		DRAWN - JB	REVISED -
exp U.S. Services Inc. CHICAGO, IL	PLOT SCALE * #SCALE*	CHECKED - IDOT	REVISED -
BUILDINGS-EARTH & ENVIRONMENT-ENERGY REGISTRAR-INFRASTRUCTURE-SUSTAINABILITY	PLOT DATE * #DATE*	DATE - 11/25/2014	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
FAP ROUTE 745 / IL ROUTE 104

LIGHTING DETAILS
DECORATIVE LIGHT POLE DETAILS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

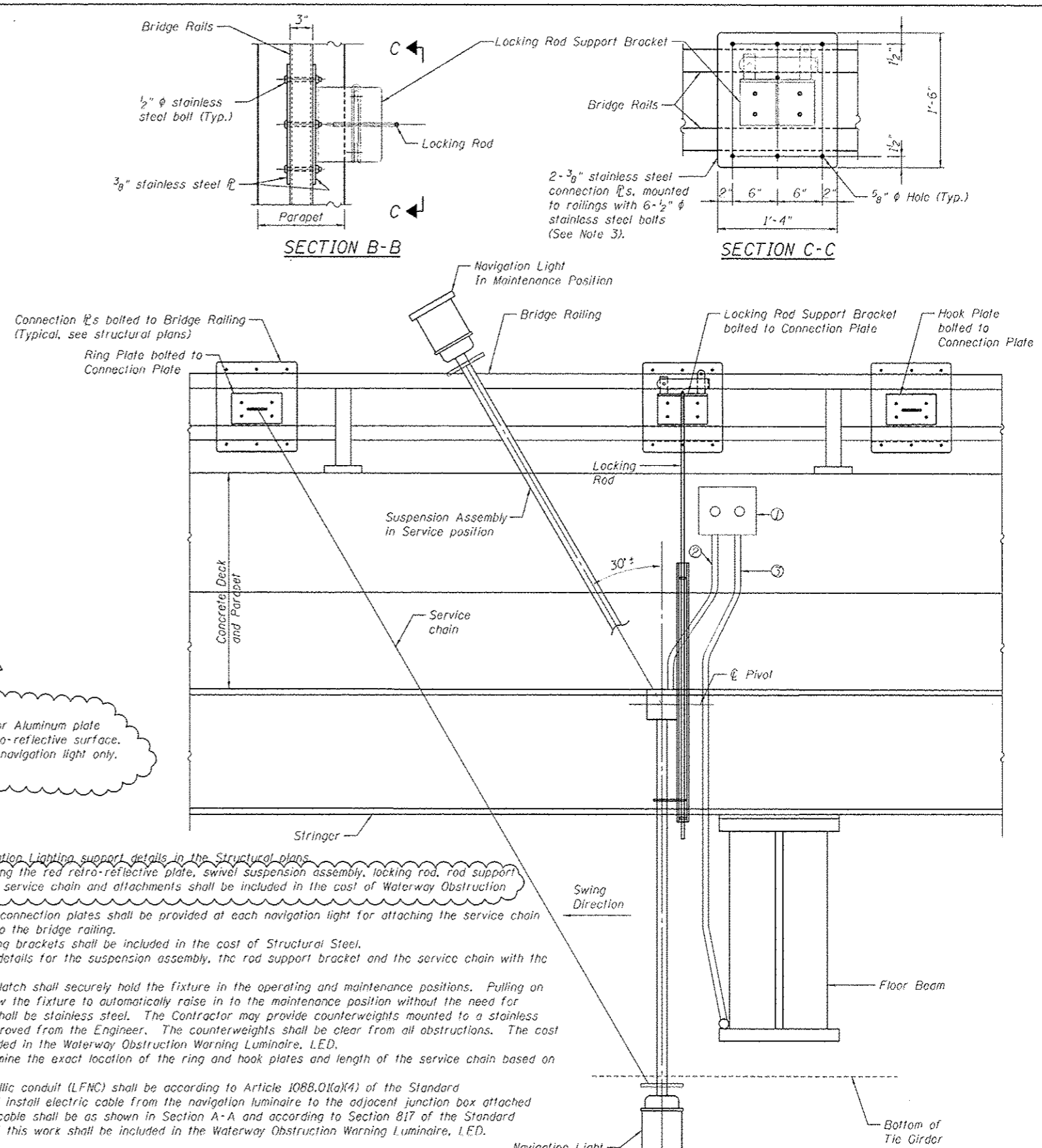
F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, * * 123R-2, 124RS-8	MORGAN/PIKE	782	330
CONTRACT NO. 72B58			ILLINOIS FED. AID PROJECT	



SECTION A-A

- ① Junction Box attached to parapet, sized per NEC but shall not be less than size indicated in lighting plan.
- ② Electric cable, 600V, (XLP-Type USE), 2-1/4 No.10, 1/4 No.10 Ground in 3/4" min. Dia liquidtight flexible nonmetallic conduit. See Note 8.
- ③ Electric cable, 600V, (XLP-Type USE) 2-1/4 No.8, 1/4 No.8 Ground in 1" Dia stainless steel conduit and hardware from junction box to floor beam. (At floor beam L1' only)
- ④ Electric cable, 600V, (XLP-Type USE), 2-1/4 No.8, 1/4 No.8 Ground in 1" Dia Rigid Galvanized Steel Conduit attached to floor beam. (At floor beam L1' only)

* Verify with Navigation Light manufacturer



SECTION B-B

SECTION C-C

- Notes:**
1. Work this sheet with Navigation Lighting support details in the Structural plans.
 2. The navigation light, including the red retro-reflective plate, swivel suspension assembly, locking rod, rod support bracket, connection plates, service chain and attachments shall be included in the cost of Waterway Obstruction Warning Luminaire, LED.
 3. Two (2) additional sets of connection plates shall be provided at each navigation light for attaching the service chain ring plate and hook plate to the bridge railing.
 4. The navigation light mounting brackets shall be included in the cost of Structural Steel.
 5. Coordinate the connection details for the suspension assembly, the rod support bracket and the service chain with the steel fabrication.
 6. A spring loaded automatic latch shall securely hold the fixture in the operating and maintenance positions. Pulling on the service chain shall allow the fixture to automatically raise in to the maintenance position without the need for counterweights. Springs shall be stainless steel. The Contractor may provide counterweights mounted to a stainless steel pipe with written approved from the Engineer. The counterweights shall be clear from all obstructions. The cost of this work shall be included in the Waterway Obstruction Warning Luminaire, LED.
 7. The Contractor shall determine the exact location of the ring and hook plates and length of the service chain based on field conditions.
 8. Liquidtight flexible nonmetallic conduit (LFMC) shall be according to Article 1088.01(a)(4) of the Standard Specifications. Furnish and install electric cable from the navigation luminaire to the adjacent junction box attached to the parapet wall. The cable shall be as shown in Section A-A and according to Section 817 of the Standard Specifications. The cost of this work shall be included in the Waterway Obstruction Warning Luminaire, LED.

NAVIGATION OBSTRUCTION WARNING LIGHTING DETAIL

(6 REQUIRED)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
 IAP ROUTE 745 / IL ROUTE 104

LIGHTING DETAILS
NAVIGATION LIGHT SUPPORT DETAILS

FILE NAME -	USER NAME - *USER*	DESIGNED - IDOT	REVISED - ADDENDUM NO. 1 11/25/2014
*FILE#		DRAWN - JDB	REVISED -
exp U.S. Services Inc.	PLOT SCALE - *SCALE*	CHECKED - IDOT	REVISED -
3137-2894, 1748913	PLOT DATE - *DATE*	DATE - 11/25/2014	REVISED -

SCALE: N.T.S.	SHEET OF SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	109RS-6, 123RS-3, 173RS-2, 174RS-8	MORGAN/PIKE	782	331
CONTRACT NO. 72B58			ILLINOIS FED. AID PROJECT	

\052858-005C\F01.DWG
 \15-2844\AR\VALU.I.D-FRANS.DAT\1600-H\AR2012\41-22\CHIL\0072858-SHE1\052858-SHT-LIGHT302.DWG
 NE:W:W:W:W

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts $\frac{7}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted.
- Calculated weight of Structural Steel = 141,800 lbs
- All structural steel shall be AASHTO M 270 Grade 50W except expansion joints which shall be AASHTO M 270 Grade 50.
- No field welding is permitted except as specified in the contract documents
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to constructions or ordering of materials. Such variations shall not be cause for additional compensation for change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 1'-6". Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- Slipforming of the parapets is not allowed.

INDEX OF SHEETS

- SI-1 General Plan & Elevation
- SI-2 General Data
- SI-3 Stage Construction Details
- SI-4 Temporary Concrete Barrier for Stage Construction
- SI-5 Top of Deck Elevation Plan
- SI-6 Top of Deck Elevations
- SI-7 Top of Approach Slab Elevations, West Approach
- SI-8 Top of Approach Slab Elevations, East Approach
- SI-9 Deck Plan & Cross Section
- SI-10 Diaphragm Details
- SI-11 Parapet Elevations
- SI-12 West Approach Slab Plan
- SI-13 West Approach Slab Details
- SI-14 East Approach Slab Plan
- SI-15 East Approach Slab Details
- SI-16 Framing Plan, & Beam Elevation
- SI-17 Steel Details
- SI-18 Bearing Details
- SI-19 West Abutment Plan & Details
- SI-20 Pier Plan & Elevation
- SI-21 East Abutment Plan & Details
- SI-22 HP Pile Details
- SI-23 Metal Shell Pile Details
- SI-24 Bar Splicer Assembly
- SI-25 Soil Boring Logs, 1 of 2
- SI-26 Soil Boring Logs, 2 of 2

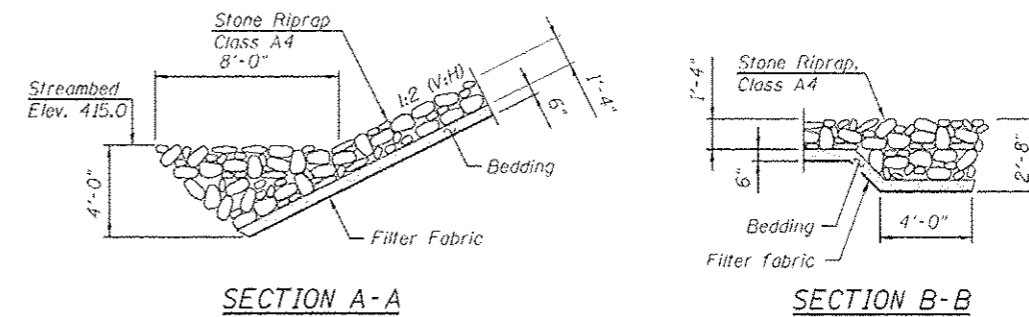
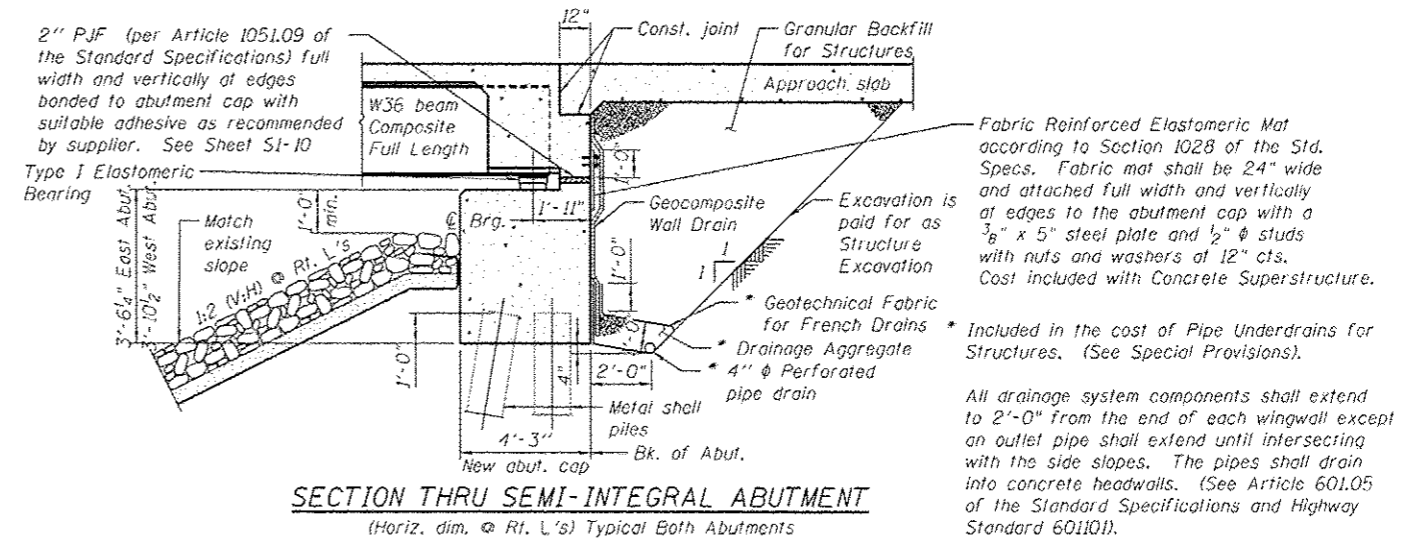
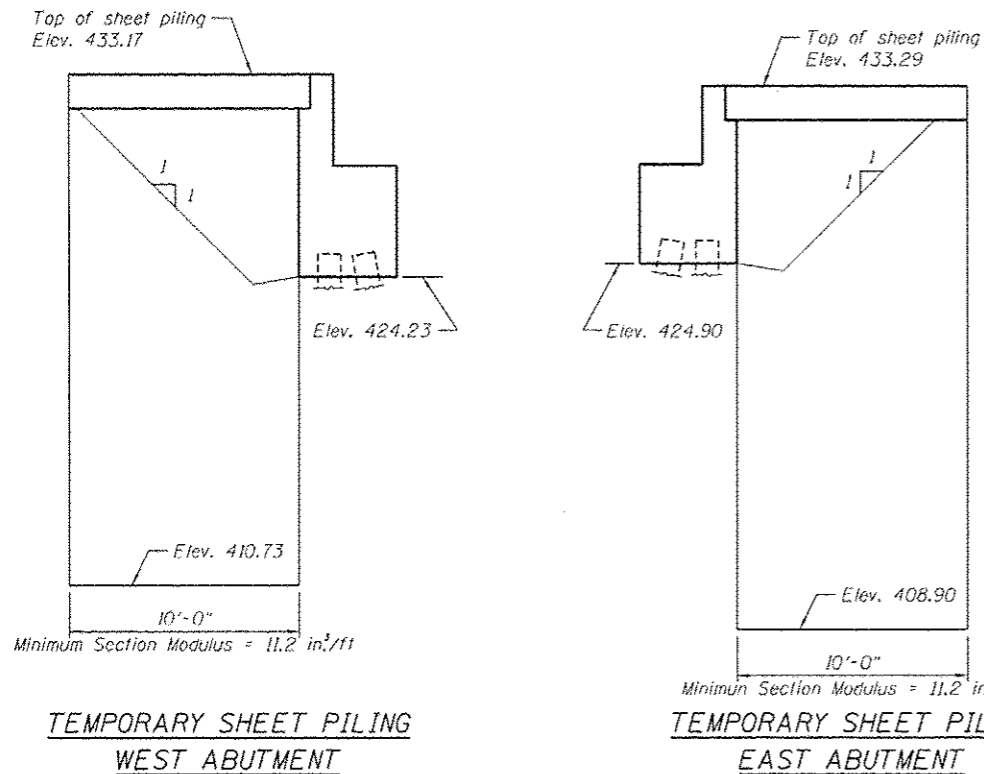
TOTAL BILL OF MATERIALS

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		29	29
Filter Fabric	Sq Yd		29	29
Removal of Existing Superstructures	Each		1	1
Concrete Removal	Cu Yd		90.8	90.8
Structure Excavation	Cu Yd		241.2	241.2
Concrete Structures	Cu Yd	28.4	80.3	108.7
Concrete Superstructure	Cu Yd	366.5		366.5
Bridge Deck Grooving	Sq Yd	897.1		897.1
Concrete Encasement	Cu Yd		14.1	14.1
Protective Coat	Sq Yd	1,114		1,114
Furnishing and Erecting Structural Steel	L Sum	0,020		0,020
Stud Shear Connectors	Each	3,600		3,600
Reinforcement Bars, Epoxy Coated	Pound	91,730	7,260	98,990
Bar Splicers	Each	589	60	649
Furnishing Metal Shell Piles 12" X 0.250"	Foot		134	134
Furnishing Steel Piles HP14x73	Foot		345	345
Driving Piles	Foot		479	479
Test Pile Steel HP14x73	Each		1	1
Name Plates	Each	1		1
Elastomeric Bearing Assembly, Type I	Each		12	12
Anchor Bolts, 1"	Each		24	24
Anchor Bolts, 1 1/4"	Each		12	12
Geocomposite Wall Drain	Sq Yd		94.3	94.3
Granular Backfill for Structures	Cu Yd		195.3	195.3
Temporary Sheet Piling	Sq Ft		468	468
Approach Slab Removal	Sq Yd			263.3
Pipe Underdrains for Structures 4"	Foot		100	100

STATION 34+36.46
RE-BUILT 20... BY
STATE OF ILLINOIS
F.A.P. RT. 745 SEC 123B-2
LOADING AASHTO HL-93
STR. NO. 075-0128

NAME PLATE

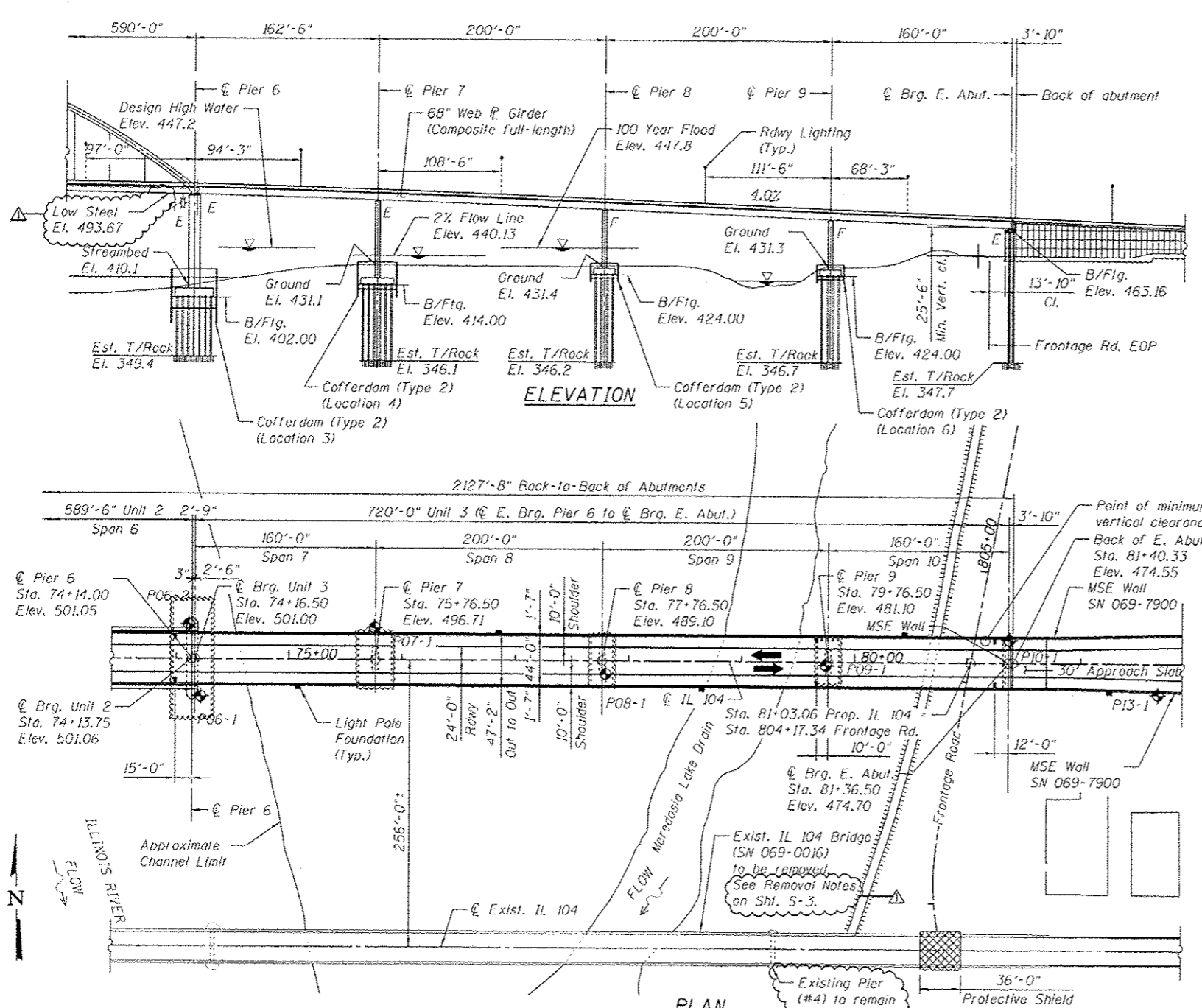
Note:
Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



Note:
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

FILE NAME: \\S:\S\2014\72858-021-GENNOTE.DWG, USER: JLR, DATE: 11/25/2014, PLOT SCALE: 1/8"=1'-0", PLOT DATE: 11/25/2014, SHEET NO: 1 OF 26, SHEET TITLE: SI-2 OF 26 SHEETS, PROJECT NO: 075-0128, CONTRACT NO: 72858

FILE NAME: \\S:\S\2014\72858-021-GENNOTE.DWG USER: JLR DATE: 11/25/2014 PLOT SCALE: 1/8"=1'-0" PLOT DATE: 11/25/2014	DESIGNED - SNB CHECKED - JLR	REVISED - Δ ADDENDUM NO. 1 11/25/2014 REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL DATA SHEET NO. SI-2 OF 26 SHEETS	F.A.P. RT. 745 SECTION 123B-2 SN 075-0128	COUNTY PIKE CONTRACT NO. 72858	TOTAL SHEETS 782 SHEET NO. 357
	DRAWN - SNB CHECKED - VCP	REVISED - REVISED -			ILLINOIS FED. AID PROJECT		



WATERWAY INFORMATION TABLE

Drainage Area = 26,030 sq. mi		Max. Recorded H.W.E. = 446.34 ft						
Prop. Low Grade Elev. = 466.53 ft, Sta. 60+15								
Flood	Frequency (yr.)	Discharge (cfs.)	Waterway Opening (sf)	Natural HWE	Created Head Existing	Created Head Proposed	Headwater Elevation Existing	Headwater Elevation Proposed
Design	10	99,400	38,175	443.6	0.0	0.0	443.6	443.6
Base	50	118,300	44,826	447.2	0.0	0.0	447.2	447.2
Max. Calc.	100	125,500	45,982	447.8	0.0	0.0	447.8	447.7
	500	139,100	47,863	448.8	0.0	0.0	448.8	448.8

DESIGN SCOUR ELEVATION TABLE

	Pier 1	Pier 2	Pier 3	Pier 4	Pier 5	Pier 6	Pier 7	Pier 8	Pier 9
Ground Elev.	433.4	435.4	435.8	431.2	410.0	410.1	431.1	431.4	431.3
Scour Elev.	426.1	428.1	428.5	394.3	388.4	388.4	394.3	424.1	424.1

STATION 71+19.00
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 745, SEC. 123B-2
 LOADING AASHTO HL-93
 STRUCTURE NO. 069-0525

NAME PLATE
 See Std. 515001

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition

DESIGN STRESSES

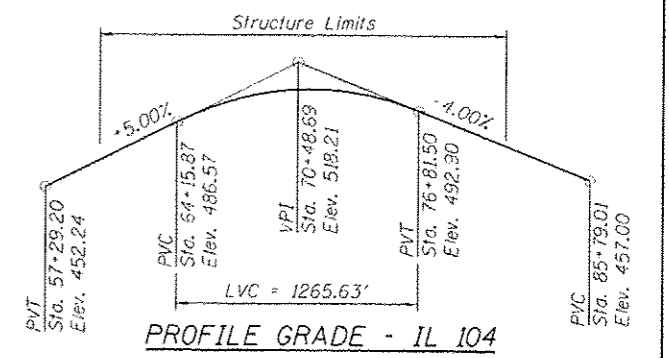
FIELD UNITS

f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 50,000 psi (AASHTO M 270 Grade 50 and 50W)
 fy = 70,000 psi (AASHTO M 270 Grade HPS 70W, Unit 2 Tie Girders)

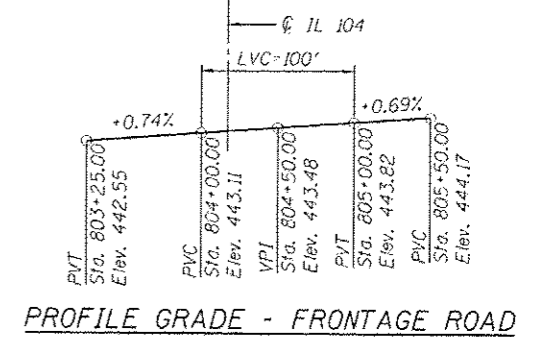
Arch Hangers (ASTM A586 structural strand):
 fu = 220,000 psi for Class A coating
 fu = 200,000 psi for Class C coating

SEISMIC DATA

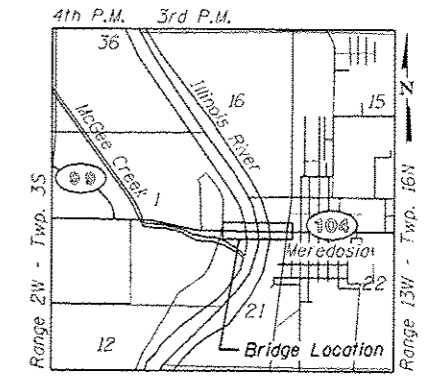
Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.225g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.298g
 Soil Site Class = E



PROFILE GRADE - IL 104



PROFILE GRADE - FRONTAGE ROAD



LOCATION SKETCH

GENERAL PLAN & ELEVATION 2 OF 2
 ILLINOIS ROUTE 104 OVER
 ILLINOIS RIVER (PUBLIC WATER)
 F.A.P. RTE. 745 - SEC. 123B-2
 MORGAN COUNTY STATION 71+19.00
 STRUCTURE NO. 069-0525

FILE NAME: I:\17-2004\174347... USER NAME: JLR... DESIGNED: JLR... CHECKED: VCP... DATE: 11/25/2014... PLOT SCALE: 1"=40'... PLOT DATE: 11/25/2014...

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION
 2 OF 2

SHEET NO. S-2 OF 146 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	123B-2	MORGAN	782	383
SN 069-0525		CONTRACT NO. 72B58		

INDEX OF SHEETS

S-1	General Plan & Elevation, 1 of 2	S-69	Elevation, Unit 2
S-2	General Plan & Elevation, 2 of 2	S-70	Tie Girder Elevation, 1 of 2
S-3	Index of Sheets & General Notes	S-71	Tie Girder Elevation, 2 of 2
S-4	Total Bill of Material, & Miscellaneous Details	S-72	Arch Rib Elevation, 1 of 2
S-5	Foundation Layout, 1 of 2	S-73	Arch Rib Elevation, 2 of 2
S-6	Foundation Layout, 2 of 2	S-74	Arch Rib Details, 1 of 4
S-7	Top of Deck Elevation Plan, Unit 1	S-75	Arch Rib Details, 2 of 4
S-8	Top of Deck Elevations, Unit 1, 1 of 4	S-76	Arch Rib Details, 3 of 4
S-9	Top of Deck Elevations, Unit 1, 2 of 4	S-77	Arch Rib Details, 4 of 4
S-10	Top of Deck Elevations, Unit 1, 3 of 4	S-78	Rib Bracing Details
S-11	Top of Deck Elevations, Unit 1, 4 of 4	S-79	Hanger Details
S-12	Top of Deck Elevation Plan, Unit 2	S-80	Arch Stresses
S-13	Top of Deck Elevations, Unit 2, 1 of 3	S-81	Arch Geometry
S-14	Top of Deck Elevations, Unit 2, 2 of 3	S-82	Arch Test Assembly
S-15	Top of Deck Elevations, Unit 2, 3 of 3	S-83	Steel Floor Framing Plan, Unit 2
S-16	Top of Deck Elevation Plan, Unit 3	S-84	Floor Beam Elevation, 1 of 2
S-17	Top of Deck Elevations, Unit 3, 1 of 4	S-85	Floor Beam Elevation, 2 of 2
S-18	Top of Deck Elevations, Unit 3, 2 of 4	S-86	Floor Beam Details
S-19	Top of Deck Elevations, Unit 3, 3 of 4	S-87	Navigation Light Support Details
S-20	Top of Deck Elevations, Unit 3, 4 of 4	S-88	Stringer Elevation
S-21	Top of Approach Slab Elevations, West Approach	S-89	Stringer Details
S-22	Top of Approach Slab Elevations, East Approach	S-90	Floor Steel Stresses
S-23	Deck Plan, Unit 1, 1 of 3	S-91	Lower Lateral Bracing Details
S-24	Deck Plan, Unit 1, 2 of 3	S-92	Arch Span Jacking Bracket
S-25	Deck Plan, Unit 1, 3 of 3	S-93	Bearing Details, Unit 1
S-26	Deck Plan, Unit 2, 1 of 3	S-94	Bearing Details, Unit 2, 1 of 2
S-27	Deck Plan, Unit 2, 2 of 3	S-95	Bearing Details, Unit 2, 2 of 2
S-28	Deck Plan, Unit 2, 3 of 3	S-96	Bearing Details, Unit 3
S-29	Deck Plan, Unit 3, 1 of 3	S-97	West Abutment Plan
S-30	Deck Plan, Unit 3, 2 of 3	S-98	West Abutment Details
S-31	Deck Plan, Unit 3, 3 of 3	S-99	Pier 1, Plan & Elevation
S-32	Deck Cross Sections	S-100	Pier 1, Sections & Details
S-33	Deck Details, 1 of 3	S-101	Pier 2, Plan & Elevation
S-34	Deck Details, 2 of 3	S-102	Pier 2, Sections & Details
S-35	Deck Details, 3 of 3	S-103	Pier 3, Plan & Elevation
S-36	Parapet Elevations, Unit 1 - North Parapet, 1 of 2	S-104	Pier 3, Sections & Details
S-37	Parapet Elevation, Unit 1 - North Parapet, 2 of 2	S-105	Pier 4, Plan & Elevation
S-38	Parapet Elevations, Unit 1 - South Parapet, 1 of 2	S-106	Pier 4, Sections & Details
S-39	Parapet Elevation, Unit 1 - South Parapet, 2 of 2	S-107	Pier 5, Plan & Elevations
S-40	Parapet Elevations, Unit 2 - North Parapet	S-108	Pier 5, Plan at Footing Level & Sections
S-41	Parapet Elevations, Unit 2 - South Parapet	S-109	Piers 5 & 6, Pile Layout Plan
S-42	Parapet Elevations, Unit 3 - North Parapet, 1 of 2	S-110	Pier 5 Reinforcement, 1 of 4
S-43	Parapet Elevation, Unit 3 - North Parapet, 2 of 2	S-111	Pier 5 Reinforcement, 2 of 4
S-44	Parapet Elevations, Unit 3 - South Parapet, 1 of 2	S-112	Pier 5 Reinforcement, 3 of 4
S-45	Parapet Elevation, Unit 3 - South Parapet, 2 of 2	S-113	Pier 5 Reinforcement, 4 of 4
S-46	Superstructure Bar List, & Bill of Material	S-114	Pier 5 Details, Bar List & Bill of Material
S-47	West Approach Slab Plan	S-115	Pier 6, Plan & Elevations
S-48	West Approach Slab Details	S-116	Pier 6, Plan at Footing Level & Sections
S-49	East Approach Slab Plan	S-117	Pier 6 Reinforcement, 1 of 4
S-50	East Approach Slab Details	S-118	Pier 6 Reinforcement, 2 of 4
S-51	Parapet Railing	S-119	Pier 6 Reinforcement, 3 of 4
S-52	Drainage Scupper, DS-12	S-120	Pier 6 Reinforcement, 4 of 4
S-53	Modular Expansion Joint, West & East Abutments	S-121	Pier 6 Details, Bar List & Bill of Material
S-54	Modular Expansion Joint, Pier 5	S-122	Pier 7, Plan & Elevation
S-55	Modular Expansion Joint, Pier 6	S-123	Pier 7, Sections & Details
S-56	Modular Expansion Joint Details, 1 of 2	S-124	Pier 8, Plan & Elevation
S-57	Modular Expansion Joint Details, 2 of 2	S-125	Pier 8, Sections & Details
S-58	Framing Plan, Unit 1	S-126	Pier 9, Plan & Elevation
S-59	Girder Elevations, Unit 1	S-127	Pier 9, Sections & Details
S-60	Girder Details, Unit 1	S-128	Architectural Details for Approach Piers
S-61	Steel Details, Unit 1	S-129	East Abutment Plan
S-62	Cross Frame Details, Unit 1	S-130	Drainage System
S-63	Framing Plan, Unit 3	S-131	HP Pile Details
S-64	Girder Elevations, Unit 3	S-132	Bar Splicer Assembly, & Mechanical Splicer Details
S-65	Girder Details, Unit 3	S-133 through S-146	Soil Boring Logs
S-66	Steel Details, Unit 3		
S-67	Cross Frame Details, Unit 3		
S-68	Key Plan, Unit 2		

GENERAL NOTES

- Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts $\frac{1}{8}$ in. ϕ , holes $\frac{15}{16}$ in. ϕ , unless otherwise noted. All bolted connections in Unit 2 shall have Class B faying surfaces.
- Calculated weight of Structural Steel = 6,728,440 lbs.
 AASHTO M 270 Grade 50 = 3,006,660 lbs
 AASHTO M 270 Grade 50W = 3,008,210 lbs
 AASHTO M 270 Grade HPS 70W = 713,570 lbs
- No field welding is permitted except as specified in the contract documents.
- Reinforcement bars designated (E) shall be epoxy coated.
- If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
- Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- Concrete Sealer shall be applied to the designated areas of the abutments and piers.
- The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.
- The Inorganic Zinc Rich Primer / Acrylic / Acrylic Paint System shall be used for shop and field painting of new structural steel except where otherwise noted. The color scheme shall be as follows:

 Approach Spans (Units 1 & 3):
 Exterior and bottom flanges of Exterior (fascia) Girders - Blue,
 all interior surfaces shall not be painted except as noted below.
 All interior structural steel and exposed surfaces of bearings within a distance of 10 ft. of all abutments and piers shall be painted Brown (Fed Color Std. 595a 20045) as specified in Section 506 of the Standard Specifications.

 Arch Span (Unit 2):
 Arch Ribs & Arch Struts: All exterior surfaces - Blue (Munsell No. 10B 3/6), all interior surfaces of closed box sections - Gray (Munsell No. 5B 7/1)
 Tie Girders: Exterior and top & bottom flanges - Blue,
 all interior surfaces - Gray
 Floor beams, stringers, lateral bracing and remaining under deck framing - Gray
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to driving piles in or near the levee and construction of the West Abutment and Pier 1.
- The Contractor shall obtain a construction permit from the Illinois Department of Natural Resources (IDNR), Office of Water Resources for any temporary construction activity placed in the water except cofferdams. This shall include the placement of material for run-arounds, causeways, etc. Any permit application by the Contractor shall refer to the IDNR 3704 Floodway Construction permit number allowing permanent construction as shown in the contract plans.
- Seal coat thickness design is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

- Materials, fabrication, welding, and non-destructive testing for the members identified as Fracture Critical Members (FCM) in the contract plans shall conform to the requirements of Section 12 of the current ANSI / AASHTO / AWS D 1.5 Bridge Welding Code.
- Construction and demolition activities shall be coordinated and approved in writing by the United States Coast Guard (USCG) and the United States Army Corps of Engineers (USACE). No additional compensation or time will be allowed for USCG or USACE restrictions.
- Slipforming of the parapets is not allowed.
- The erection of the structural steel shall be accomplished by a steel erection contractor or sub-contractor certified as Advanced Certified Steel Erector (ACSE) by AISC. See Special Provision for Erection of Complex Structures.
- In addition to cofferdam requirements in Section 502 of the Standard Specifications, the Contractor shall furnish, install, provide temporary power, and subsequently remove one 180 degree red navigation light on the upstream and downstream sides of the cofferdam locations 2 and 3. The cost is included with Cofferdam (Type 2) (Location 2) & (Location 3).
- Prior to the placement of the joint block-out, the Contractor shall coordinate with the Modular Joint Manufacturer to ensure that the joint will be properly supported and that the reinforcement bars will not interfere with the joint components. Any necessary adjustments to the reinforcement layout shall be submitted to the Engineer for approval.

SN 069-0016 REMOVAL NOTES

The existing bridge shall be removed, except as noted below:

- The westernmost pier (#1) shall be removed up to elevation 429.0 or below.
- The main navigation channel piers (#2 & #3) shall be removed up to top of footing elevation 404.0.
- The easternmost pier (#4) shall not be removed; shall be protected and saved in its entirety.

11-17-2014, 17:42:41
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 exp U.S. Services Inc. CHICAGO
 BUSINESS - CIVIL & ENVIRONMENT-ENERGY
 INFRASTRUCTURE-SUSTAINABILITY

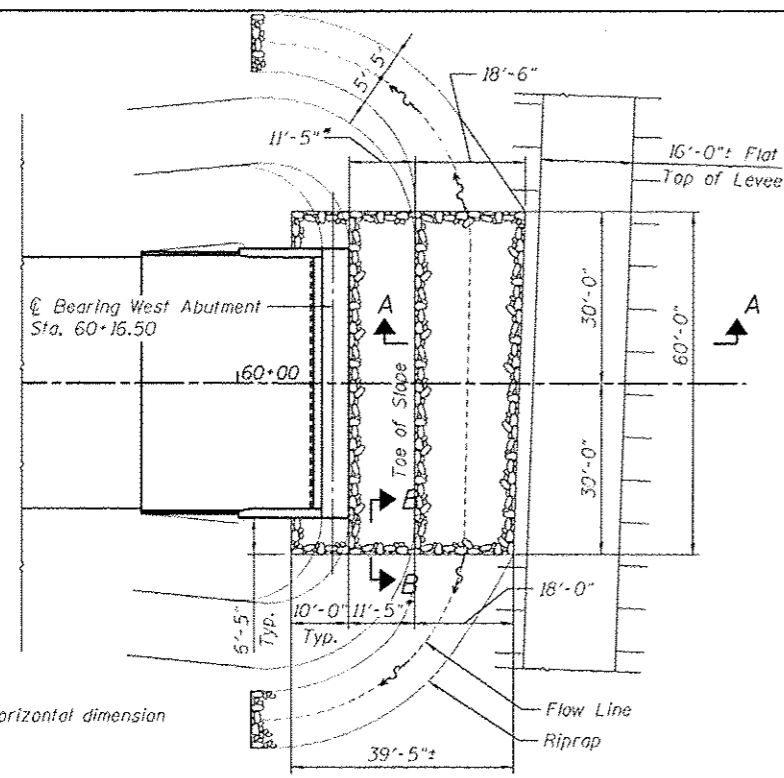
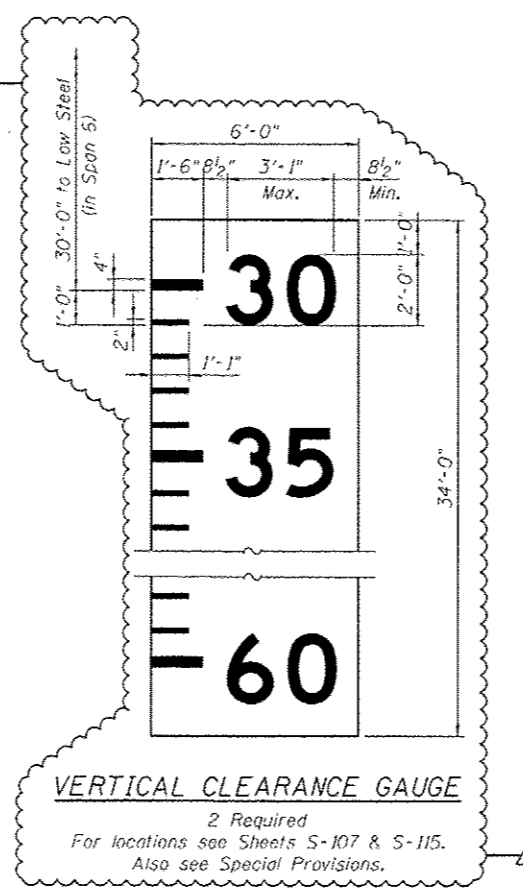
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DATE: 11/25/2014	CHECKED: VCP	REVISIONS:				SN 069-0525		CONTRACT NO. 72B58			
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PLOT DATE: 11/25/2014	CHECKED: RSN	REVISIONS:				ILLINOIS FED. AID PROJECT					

TOTAL BILL OF MATERIAL

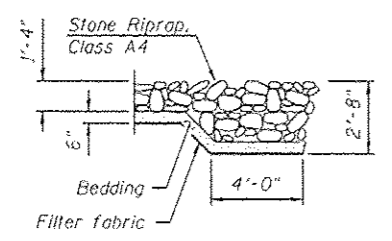
	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq Yd		348	348
Filter Fabric	Sq Yd		348	348
Removal of Existing Structures No. 1	Each			1
Protective Shield	Sq Yd			120
Structure Excavation	Cu Yd		963	963
Cofferdam Excavation	Cu Yd		9,751	9,751
Cofferdam (Type 2) (Location 1)	Each		1	1
Cofferdam (Type 2) (Location 2)	Each		1	1
Cofferdam (Type 2) (Location 3)	Each		1	1
Cofferdam (Type 2) (Location 4)	Each		1	1
Cofferdam (Type 2) (Location 5)	Each		1	1
Cofferdam (Type 2) (Location 6)	Each		1	1
Concrete Structures	Cu Yd		8,026.3	8,026.3
Concrete Superstructure	Cu Yd	3,425.7		3,425.7
Bridge Deck Grooving	Sq Yd	10.183		10.183
Seal Coat Concrete	Cu Yd		3,876.0	3,876.0
Concrete Encasement	Cu Yd		8.2	8.2
Protective Coat	Sq Yd	12.571		12.571
Furnishing and Erecting Structural Steel	L Sum	0.967		0.967
Stud Shear Connectors	Each	29,550		29,550
Reinforcement Bars, Epoxy Coated	Pound	911,120	1,277,750	2,188,870
Bar Splicers	Each		89	89
Mechanical Splicers	Each		1,012	1,012
Parapet Railing	Foot	4,336		4,336
Furnishing Steel Piles HP14X73	Foot		1,180	1,180
Furnishing Steel Piles HP14X89	Foot		14,827	14,827
Furnishing Steel Piles HP14X117	Foot		26,035	26,035
Driving Piles	Foot		42,042	42,042
Test Pile Steel HP14X73	Each		1	1
Test Pile Steel HP14X89	Each		6	6
Test Pile Steel HP14X117	Each		6	6
Pile Shoes	Each		640	640
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	92		92
Anchor Bolts, 1"	Each		120	120
Anchor Bolts, 1 1/4"	Each		96	96
Anchor Bolts, 2"	Each		40	40
Concrete Sealer	Sq Ft		13,108	13,108
Geocomposite Wall Drain	Sq Yd		45	45
Pipe Handrail	Foot		114	114
Drainage System	L Sum	1		1
High Load Multi-Rotational Bearings, Guided Expansion, 100K	Each		12	12
High Load Multi-Rotational Bearings, Guided Expansion, 200K	Each		24	24
High Load Multi-Rotational Bearings, Guided Expansion, 500K	Each		12	12
High Load Multi-Rotational Bearings, Guided Expansion, 600K	Each		6	6
High Load Multi-Rotational Bearings, Fixed - 500K	Each		12	12
High Load Multi-Rotational Bearings, Fixed - 600K	Each		12	12
Granular Backfill for Structures	Cu Yd		122	122
Drainage Scuppers, DS-12	Each	12		12
Temporary Sheet Piling	Sq Ft		1,253	1,253
Diamond Grinding (Bridge Section)	Sq Yd	9,698		9,698
Modular Expansion Joint 6"	Foot		88	88
Modular Expansion Joint 9"	Foot		44	44
Modular Expansion Joint 18"	Foot		44	44
Pipe Underdrains for Structures 4"	Foot		104	104
High Load Multi-Rotational Bearings, Fixed - 2600K	Each		2	2
High Load Multi-Rotational Bearings, Guided Expansion, 2600K	Each		2	2
Hanger Assemblies for Tied Arch Span	L Sum	1		1
Vertical Clearance Gauge	Each		2	2

STATION 71+19.00
 BUILT 20... BY
 STATE OF ILLINOIS
 F.A.P. ROUTE 745, SEC. 123B-2
 LOADING AASHTO HL-93
 STRUCTURE NO. 069-0525

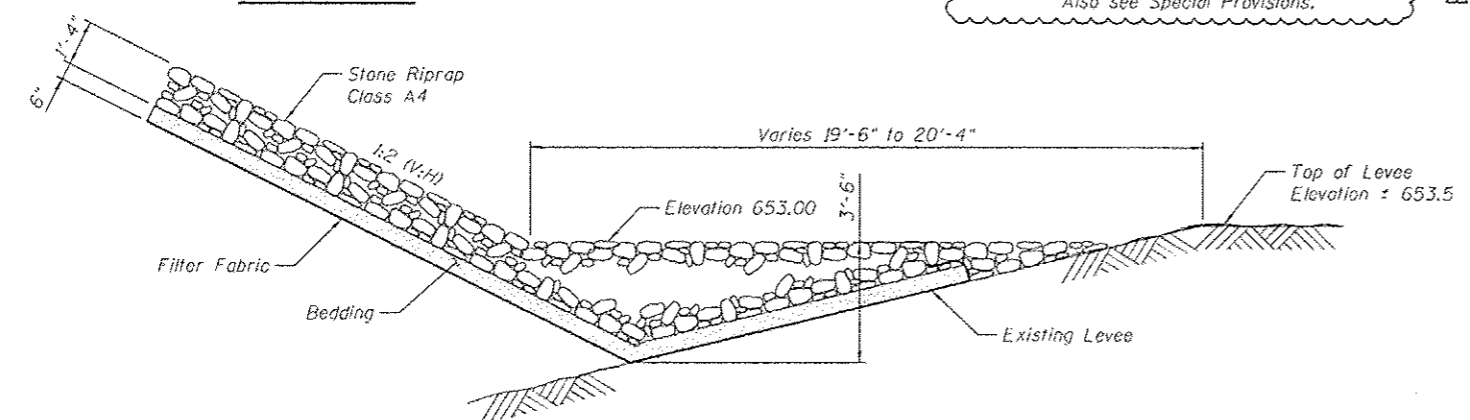
NAME PLATE
 See Std. S15001



SLOPE PROTECTION AT WEST ABUTMENT



SECTION B-B

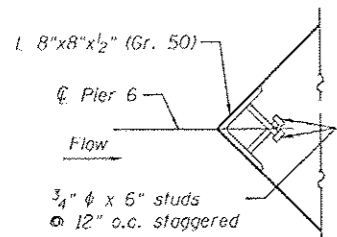


SECTION A-A

Note: For riprap detail at abutment see Section A-A, Sheet S-97

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 DATE: 11/25/2014
 DESIGNED: JLR
 CHECKED: VCP
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 CHECKED: RSN
 REVISED: ADDENDUM NO. 1, 11/25/2014
 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION
 SHEET NO. S-4 OF 146 SHEETS

FILE NAME	USER NAME	DESIGNED	REVISED	TOTAL BILL OF MATERIAL & MISCELLANEOUS DETAILS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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DATE	11/25/2014	CHECKED	VCP	SHEET NO. S-4 OF 146 SHEETS		SN 069-0525		CONTRACT NO. 72B58		
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PLT DATE		CHECKED	RSN							



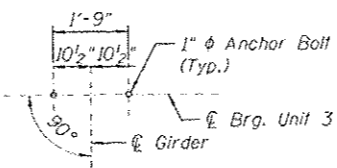
$\frac{3}{4}$ " ϕ x 6" studs
@ 12" o.c. staggered

Note: The angle with studs shall be galvanized according to AASHTO M 111, and cost shall be included with Furnishing and Erecting Structural Steel.

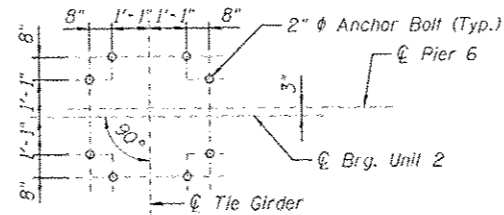
DETAIL 2

**VESSEL COLLISION FORCE
FOR EXTREME EVENT II LOAD COMBINATION**

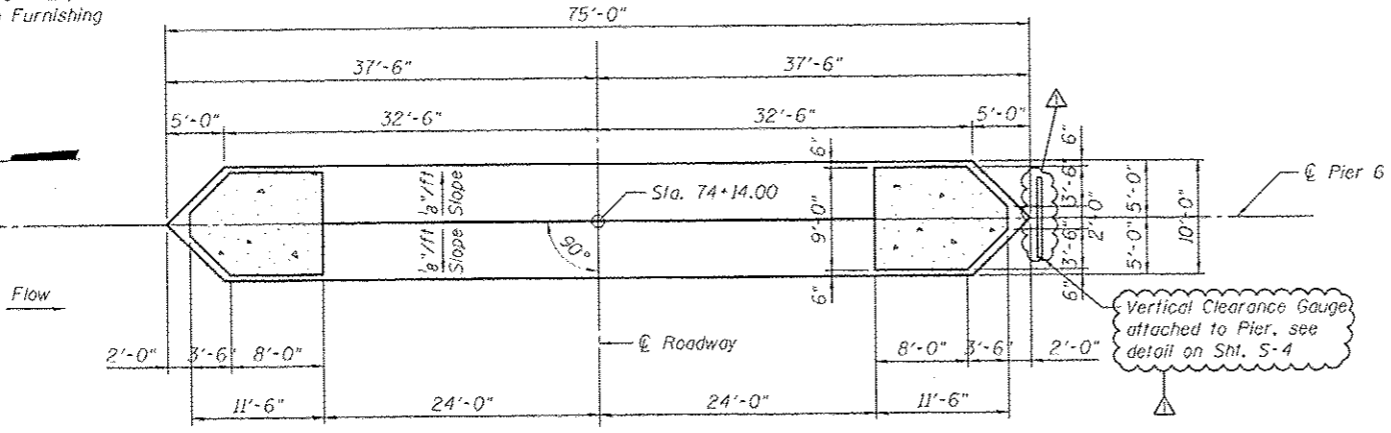
	Case 1	Case 2
Static load	3800 K	1900 K
Elevation	435 ft	435 ft
Direction	Along ϕ Pier	Along ϕ IL104



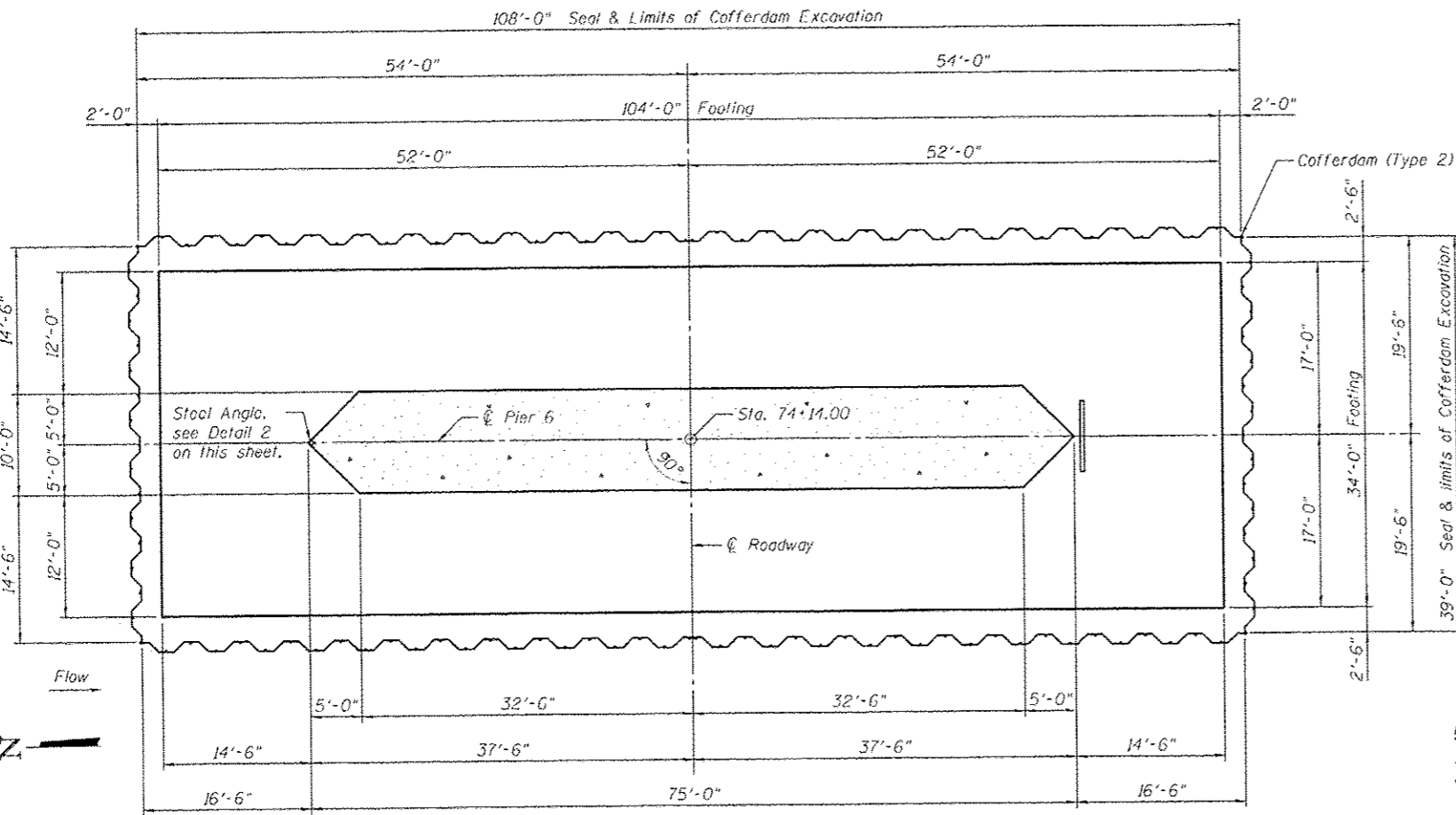
ANCHOR BOLT LAYOUT
Layout at Girders 1 thru 6



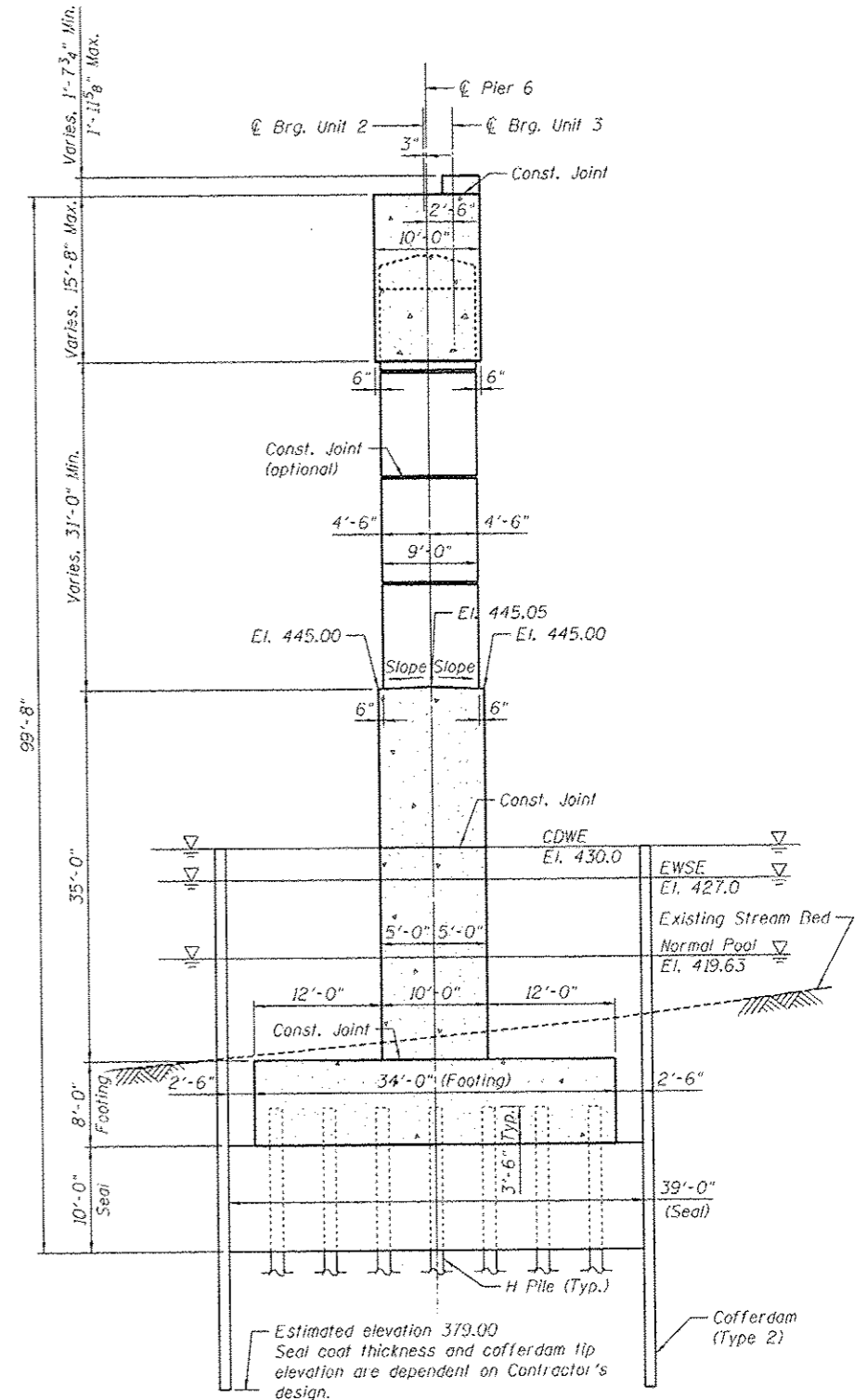
ANCHOR BOLT LAYOUT
Layout at Tie Girders



PLAN SECTION C-C



PLAN SECTION B-B



SECTION A-A

Notes:
1. CDWE denotes Cofferdam Design Water Elevation.
2. For remainder of notes, see Sht. S-115.

\V899625-72658-201-PIER.DGN, \V899625-72658-201-PIER.DGN, \V899625-72658-201-PIER.DGN, \V899625-72658-201-PIER.DGN, \V899625-72658-201-PIER.SHT.DGN
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DATE = 11/25/2014	CHECKED - RSN	REVISIONS -	
PLOT SCALE =	DRAWN - FD	REVISIONS -	
PLOT DATE =	CHECKED - SGC	REVISIONS -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PIER 6
PLAN AT FOOTING LEVEL & SECTIONS**

SHEET NO. 5-116 OF 146 SHEETS

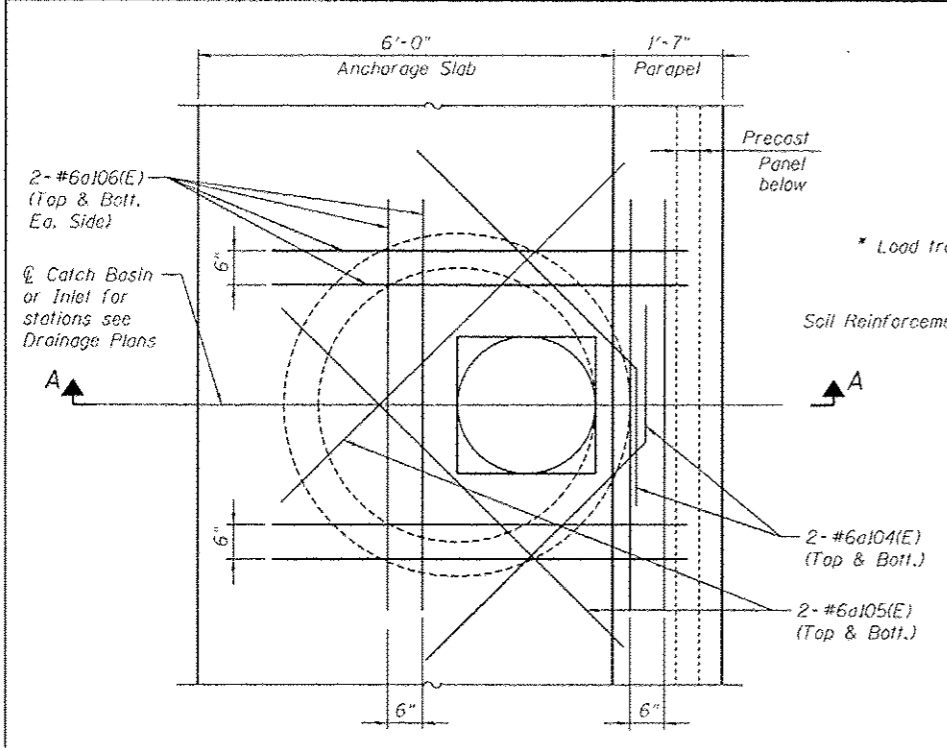
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SN 069-0525		CONTRACT NO. 72B58		
ILLINOIS FED. AID PROJECT				

BAR LIST

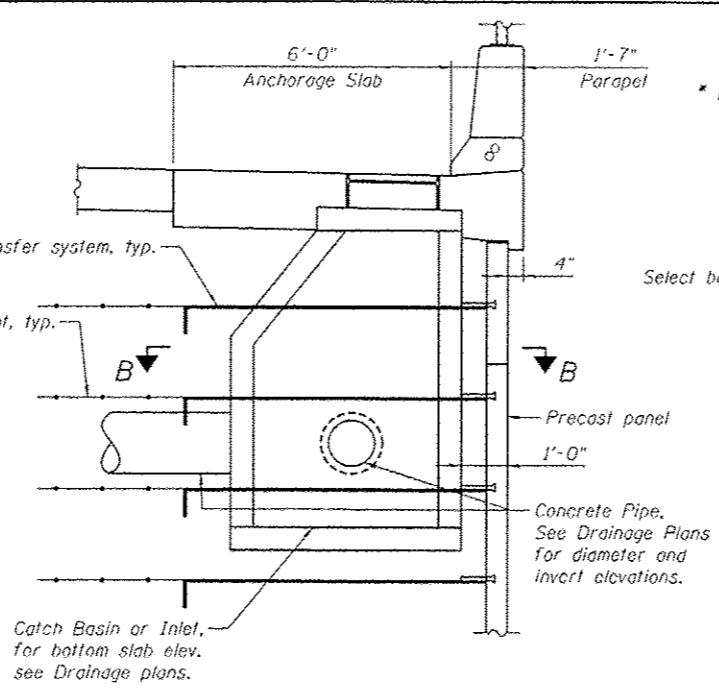
Bar	No.	Size	Length	Shape
a101(E)	404	#6	8'-6"	—
a102(E)	338	#5	7'-4"	—
a103(E)	170	#6	2'-6"	—
a104(E)	8	#6	6'-6"	—
a105(E)	8	#6	7'-0"	—
a106(E)	32	#6	6'-0"	—
b101(E)	170	#5	30'-0"	—
b102(E)	34	#5	26'-11"	—
b103(E)	34	#5	9'-5"	—
d101(E)	378	#5	6'-10"	Δ
d102(E)	378	#5	5'-7"	Δ
d103(E)	5	#6	8'-11"	—
d104(E)	3	#6	4'-5"	—
d105(E)	3	#4	8'-1"	—
d106(E)	3	#4	4'-11"	—
e101(E)	160	#4	14'-8"	—
e102(E)	20	#8	14'-8"	—
e103(E)	16	#4	16'-9"	—
e104(E)	2	#8	16'-9"	—
h101(E)	15	#4	13'-10"	—
h102(E)	6	#4	10'-5"	—
h103(E)	4	#4	9'-4"	—
h104(E)	10	#4	7'-8"	—
h105(E)	20	#4	13'-3"	—
u101(E)	85	#4	3'-2"	—
v101(E)	10	#4	6'-4"	—

BILL OF MATERIAL

Item	Unit	Total
Concrete Superstructure	Cu. Yd.	168.8
Reinforcement Bars, Epoxy Coated	Pound	23,720

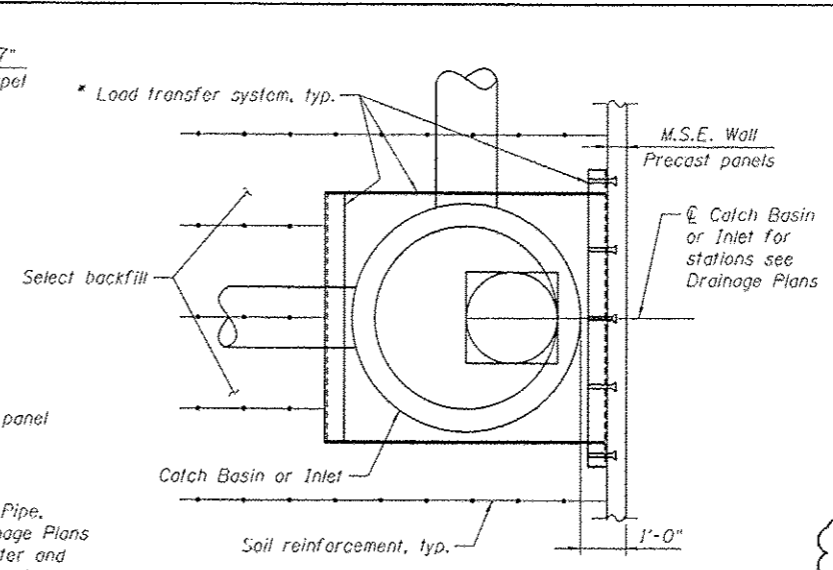


ANCHORAGE SLAB AT CATCH BASIN/INLET
(2 Thus)



SECTION A-A

* M.S.E. supplier to design load transfer system to accommodate pipe and catch basin and inlets.

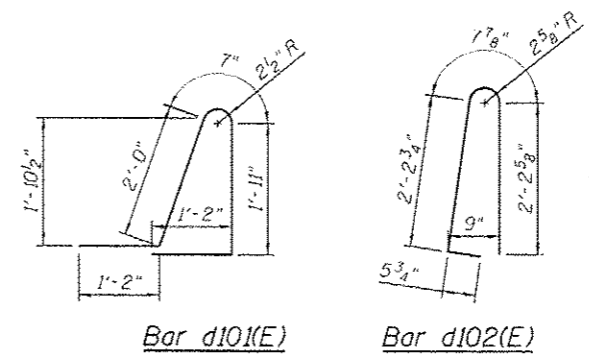


SECTION B-B

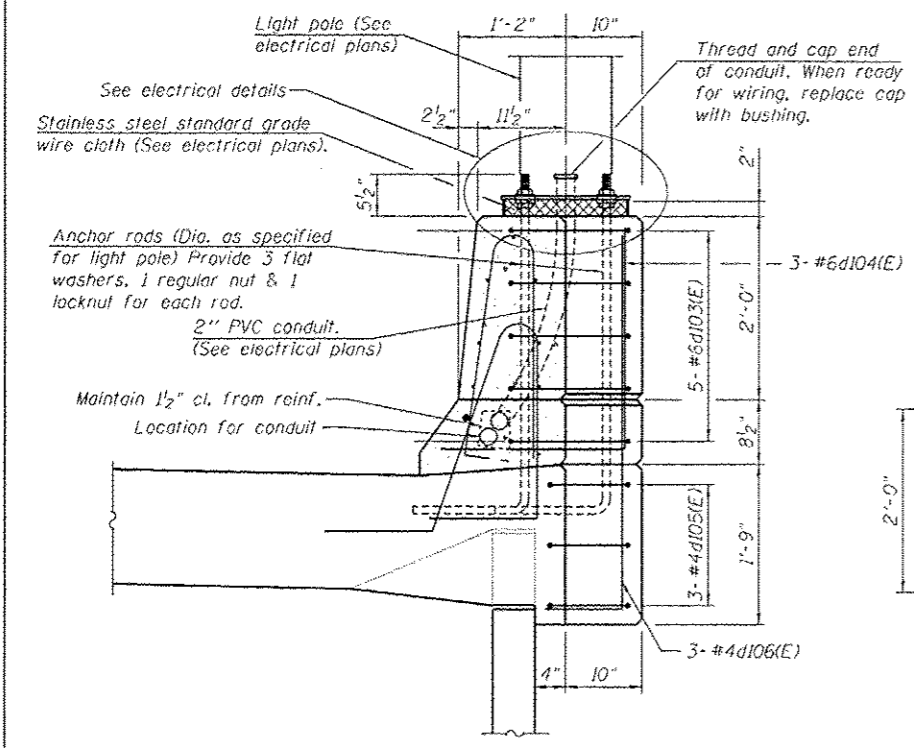
* M.S.E. supplier to design load transfer system to accommodate pipe and catch basin and inlets.

Bar	A	B
a101(E)	7'-3"	1'-3"
d104(E)	2'-0"	2'-5"
d106(E)	10"	4'-1"
h102(E)	8'-6"	1'-11"
h103(E)	7'-10"	1'-6"
h104(E)	3'-10"	3'-10"

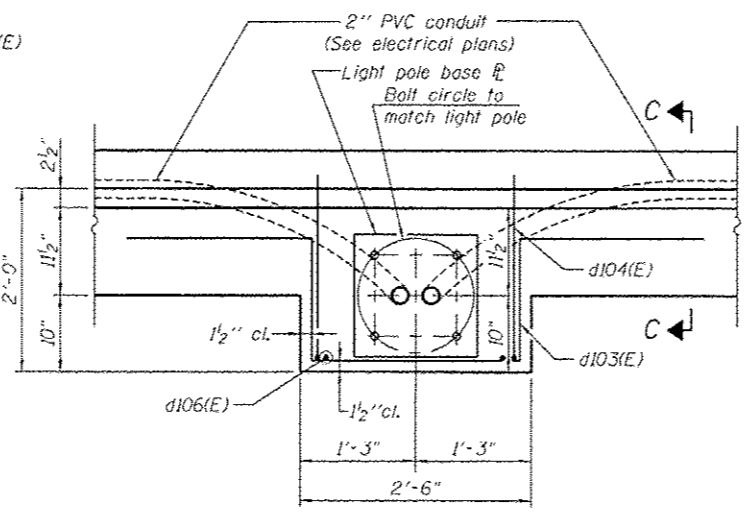
Bars a101(E), d104(E), d106(E) & h102(E) thru h104(E)



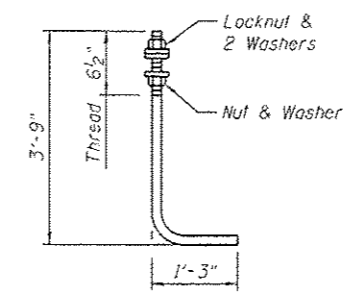
Bar d101(E) Bar d102(E)



SECTION C-C

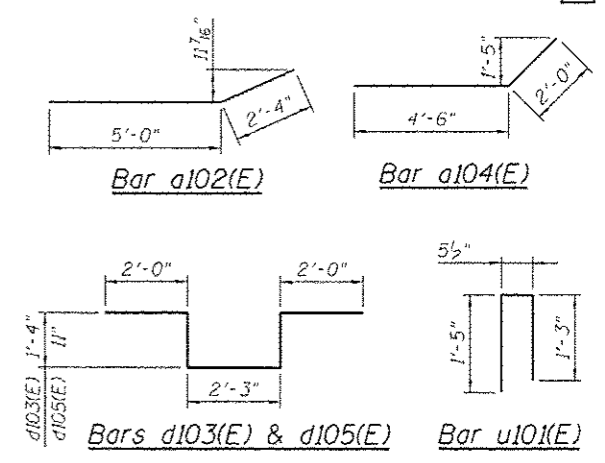


LIGHT POLE PLAN



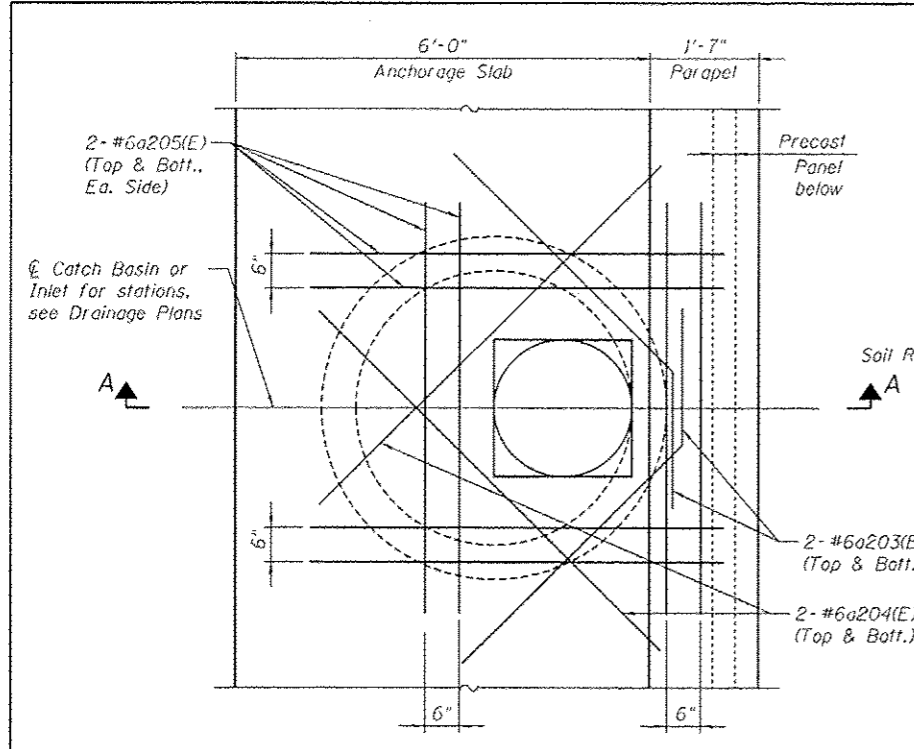
ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dip galvanized. 4-Anchor Rods per pole foundation. Cost of anchor rods is included with Concrete Superstructure.

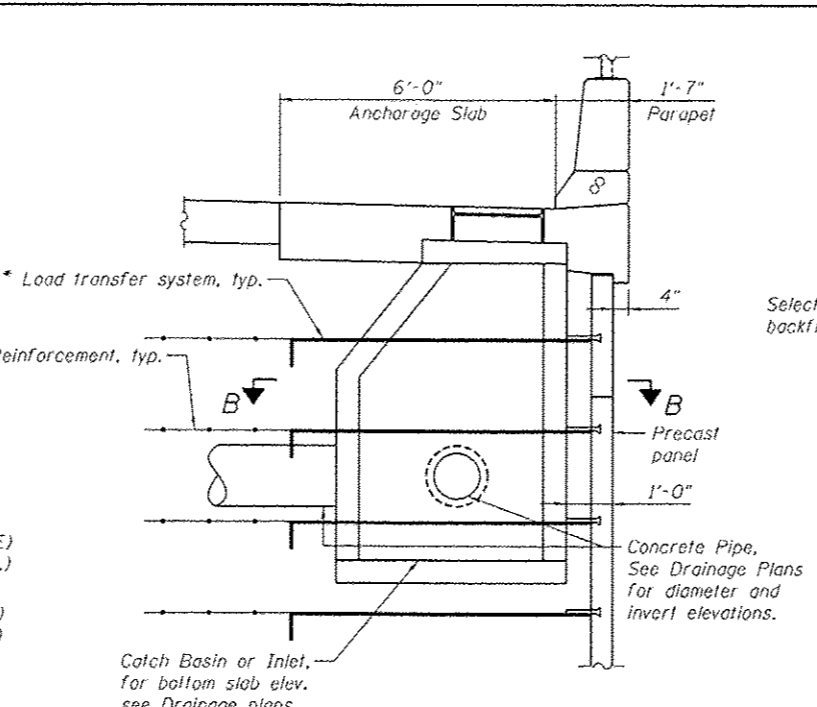


Bar a102(E) Bar a104(E) Bars d103(E) & d105(E) Bar u101(E)

FILE NAME: GKE GARZA KARHOFF ENGINEERING, LLC Structural Engineers Chicago, IL
 USER NAME: DATE: 1/25/2014
 DESIGNED: CPE CHECKED: BGK REVISIONS: ADDENDUM NO. 1, 11/25/2014
 DRAWN: MET REVISIONS: SHEET NO. 2 OF 2
 CHECKED: BGK REVISIONS: SHEET NO. 2 OF 2
 PLOT SCALE: PLOT DATE: SHEET NO. 53-3 OF 15 SHEETS
 CONTRACT NO. 72B58

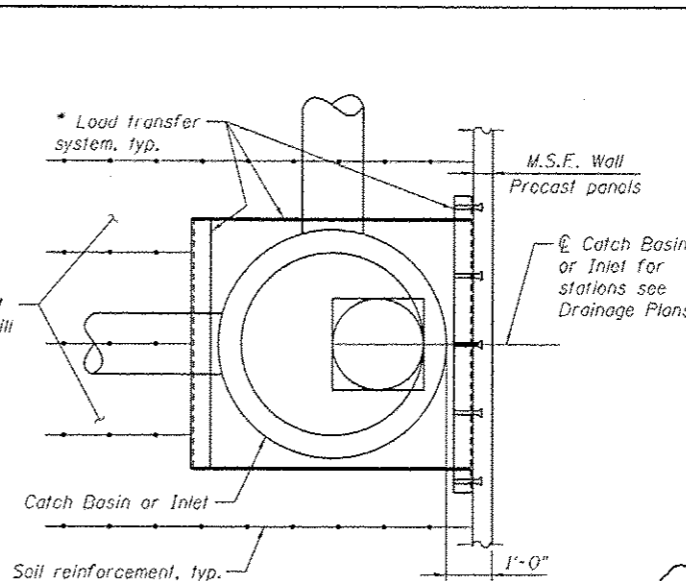


ANCHORAGE SLAB AT CATCH BASIN
(5 Thus)



SECTION A-A

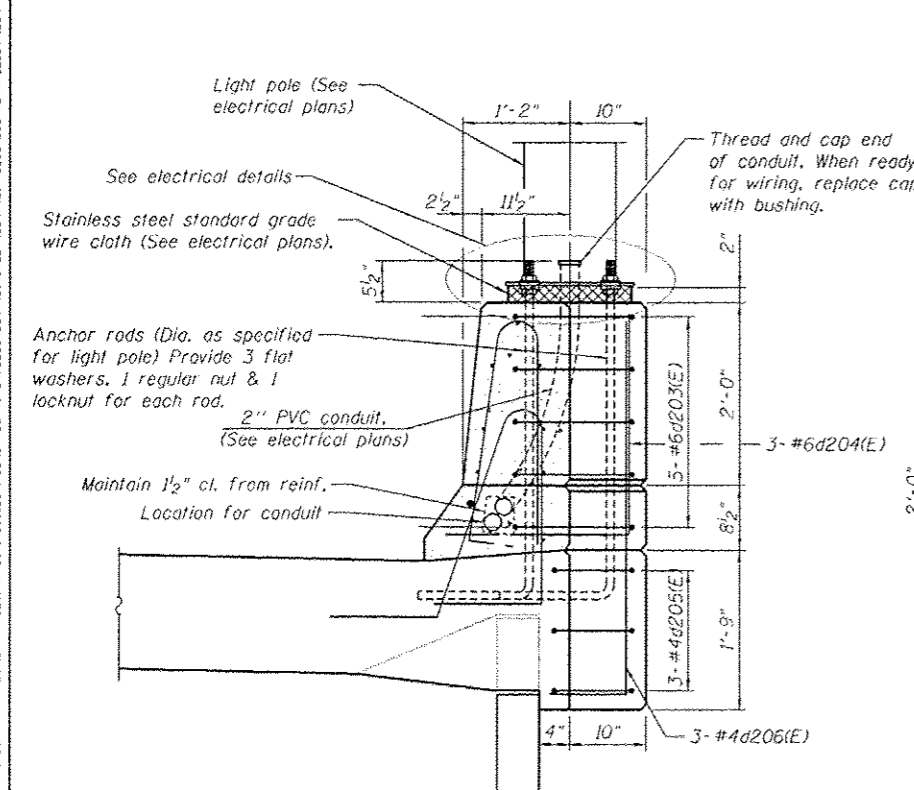
* M.S.E. supplier to design load transfer system to accommodate pipe and catch basin and inlets.



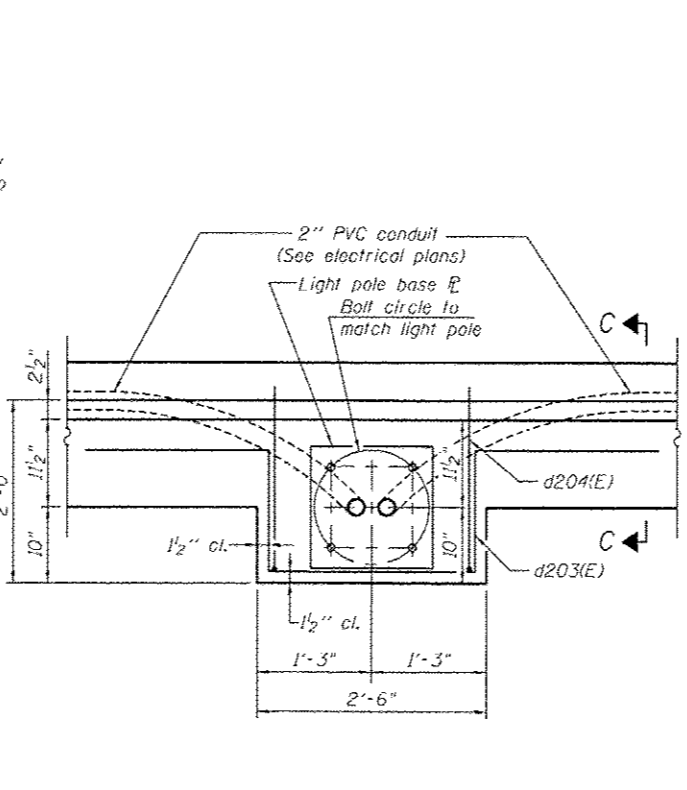
SECTION B-B

* M.S.E. supplier to design load transfer system to accommodate pipe and catch basin and inlets.

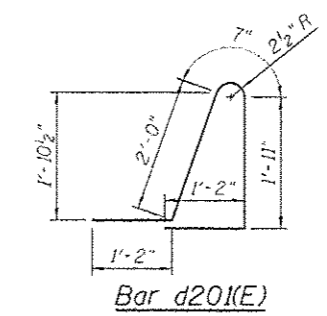
BAR LIST				
Bar	No.	Size	Length	Shape
a201(E)	629	#5	7'-4"	—
a202(E)	754	#6	8'-6"	—
a203(E)	20	#6	6'-6"	—
a204(E)	20	#6	7'-0"	—
a205(E)	80	#6	6'-0"	—
b201(E)	255	#5	30'-0"	—
b202(E)	51	#5	13'-0"	—
b203(E)	64	#5	23'-7"	—
b204(E)	34	#5	13'-9"	—
b205(E)	68	#5	23'-9"	—
d201(E)	703	#5	8'-2"	⌒
d202(E)	703	#5	4'-5"	⌒
d203(E)	5	#6	8'-11"	⌒
d204(E)	3	#6	4'-5"	⌒
d205(E)	3	#4	8'-1"	⌒
d206(E)	3	#4	4'-11"	⌒
e201(E)	304	#4	14'-8"	—
e202(E)	38	#8	14'-8"	—
e203(E)	16	#4	14'-7"	—
e204(E)	2	#8	14'-7"	—
e205(E)	8	#4	9'-5"	—
e206(E)	1	#8	9'-5"	—
e207(E)	8	#4	10'-3"	—
e208(E)	1	#8	10'-3"	—
h201(E)	20	#4	13'-11"	—
u201(E)	32	#4	3'-2"	⌒



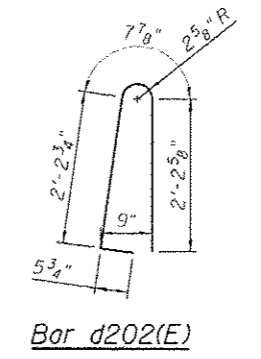
SECTION C-C



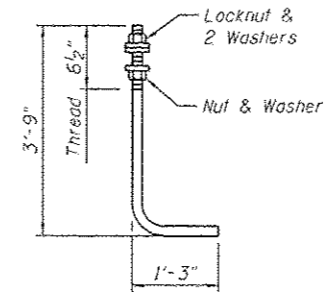
LIGHT POLE PLAN



Bar d201(E)



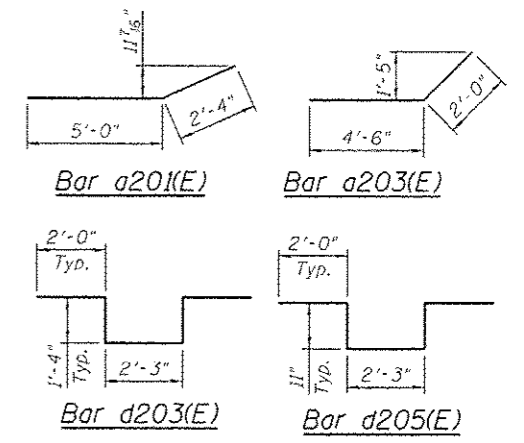
Bar d202(E)



ANCHOR ROD

Diameter as specified for light poles. (ASTM F 1554 Grade 105) Full length hot dip galvanized. 4-Anchor Rods per pole foundation. Cost of anchor rods is included with Concrete Superstructure.

Bar u201(E)



Bar a201(E)

Bar a203(E)

Bar d203(E)

Bar d205(E)

Bar	A	B
a202(E)	7'-3"	1'-3"
a204(E)	2'-0"	2'-5"
d206(E)	10"	4'-1"

Bars a202(E), d204(E) & d206(E)

BILL OF MATERIAL		
Item	Unit	Total
Concrete Superstructure	Cu. Yd.	304.3
Reinforcement Bars, Epoxy Coated	Pound	42,430

FILE NAME: ... USER NAME: ... DESIGNED: CPH ... CHECKED: BCK ... REVISIONS: ...

FILE NAME	USER NAME	DESIGNED	CHECKED	REVISIONS
...	...	CPH	BCK	ADDENDUM NO. 1, 11/25/2014
...
...

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANCHORAGE SLAB DETAILS
2 OF 2

SHEET NO. S4-8 OF 13 SHEETS

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	123B-2	MORGAN	182	578
	SN 069-7901			CONTRACT NO. 72B58

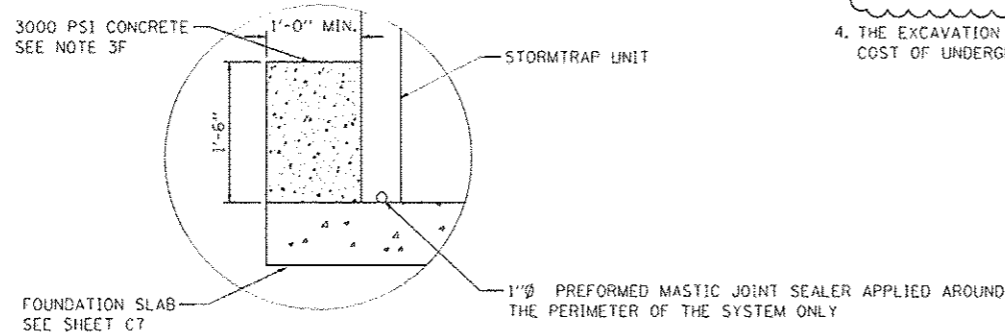
STORMWATER STORAGE CHAMBER SPECIFICATIONS

1. STORMWATER STORAGE CHAMBER SHALL BE CONSTRUCTED ACCORDING TO SPECIAL PROVISION FOR STORMWATER STORAGE CHAMBER AND THESE PLAN DETAILS.
2. STORMTRAP MODULES SHALL BE MANUFACTURED ACCORDING TO SHOP DRAWINGS APPROVED BY ENGINEER. THE SHOP DRAWINGS SHALL INDICATE SIZE AND LOCATION OF ACCESS OPENINGS AND INLET/ OUTLET PIPE OPENINGS.
3. STORMTRAP SHALL BE INSTALLED IN ACCORDANCE WITH ASTM C891-09, STANDARD PRACTICE FOR INSTALLATION OF UNDERGROUND PRE-CAST CONCRETE UTILITY STRUCTURES. THE FOLLOWING ADDITIONS AND/OR EXCEPTIONS SHALL APPLY:
 - A. SPECIFICATIONS ON THE CONTRACT DRAWINGS SHALL TAKE PRECEDENCE.
 - B. STORMTRAP MODULES SHALL BE PLACED ON LEVEL FOUNDATION SLAB (SEE SHEET C7) WITH A 1'-0" OVERHANG ON ALL SIDES.
 - C. THE STORMTRAP MODULES SHALL BE PLACED SUCH THAT THE MAXIMUM SPACE BETWEEN ADJACENT MODULES DOES NOT EXCEED 3/4". IF THE SPACE EXCEEDS 3/4", THE MODULES SHALL BE RESET WITH APPROPRIATE ADJUSTMENT MADE TO LINE AND GRADE TO BRING THE SPACE INTO SPECIFICATION.
 - D. THE PERIMETER HORIZONTAL JOINT OF THE STORMTRAP MODULES SHALL BE SEALED TO THE FOUNDATION SLAB WITH PREFORMED MASTIC JOINT SEALER ACCORDING TO ASTM C891-09 8.8 AND 8.12.

- E. ALL EXTERIOR JOINTS BETWEEN ADJACENT STORMTRAP MODULES SHALL BE SEALED WITH PRE-FORMED, COLD-APPLIED, SELF-ADHERING ELASTOMERIC RESIN BONDED TO A WOVEN HIGHLY PUNCTURE RESISTANT POLYMER WRAP CONFORMING TO ASTM C891-09 AND SHALL BE 0'-8" INTEGRATED PRIMER SEALANT AS APPROVED BY STORMTRAP. THE ADHESIVE EXTERIOR JOINT WRAP SHALL BE INSTALLED ACCORDING TO THE FOLLOWING INSTALLATION INSTRUCTIONS:
 1. USE A BRUSH OR WET CLOTH TO THOROUGHLY CLEAN THE OUTSIDE SURFACE AT THE POINT WHERE THE JOINT WRAP IS TO BE APPLIED.
 2. A RELEASE PAPER PROTECTS THE ADHESIVE SIDE OF THE JOINT WRAP. PLACE THE ADHESIVE TAPE (BUTYL SIDE DOWN) AROUND THE STRUCTURE, REMOVING THE RELEASE PAPER AS YOU GO. PRESS THE JOINT WRAP FIRMLY AGAINST THE STORMTRAP MODULE SURFACE WHEN APPLYING.
 - F. THE STORMTRAP SYSTEM SHALL BE BACKFILLED WITH 3000 PSI CONCRETE 1'-6" ABOVE THE HORIZONTAL JOINT WHERE THE STORMTRAP UNIT MEETS THE POURED FOUNDATION SLAB. THIS FILL MUST BE 1'-0" WIDE AROUND THE PERIMETER OF THE ENTIRE SYSTEM (SEE DETAIL "A" ON THIS SHEET).
 - G. THE BACKFILL PLACED AROUND THE STORMTRAP UNITS MUST BE DEPOSITED ON BOTH SIDES AT THE SAME TIME AND TO APPROXIMATELY THE SAME ELEVATION. AT NO TIME SHALL THE FILL BEHIND ONE SIDE WALL BE MORE THAN 2'-0" HIGHER THAN THE FILL ON THE OPPOSITE SIDE. BACKFILL SHALL BE COMPACTED TO 95% STANDARD PROCTOR DENSITY OR OTHERWISE SPECIFIED BY ENGINEER. CARE SHALL BE TAKEN TO PREVENT ANY WEDGING ACTION AGAINST THE STRUCTURE, (REFERENCE ARTICLE 502.10 I.D.O.T. STANDARD SPECIFICATIONS) CARE SHALL ALSO BE TAKEN TO NOT DISRUPT THE JOINT WRAP FROM THE JOINT DURING THE BACKFILL PROCESS. BACKFILL MATERIAL SHALL BE 1/4" TO 3/4" WASHED COURSE AGGREGATE STONE OR APPROVED EQUAL.
4. THE EXCAVATION BRACING SYSTEM, EXCAVATION AND BACKFILL SHALL BE INCLUDED IN THE COST OF UNDERGROUND STORAGE CHAMBER.

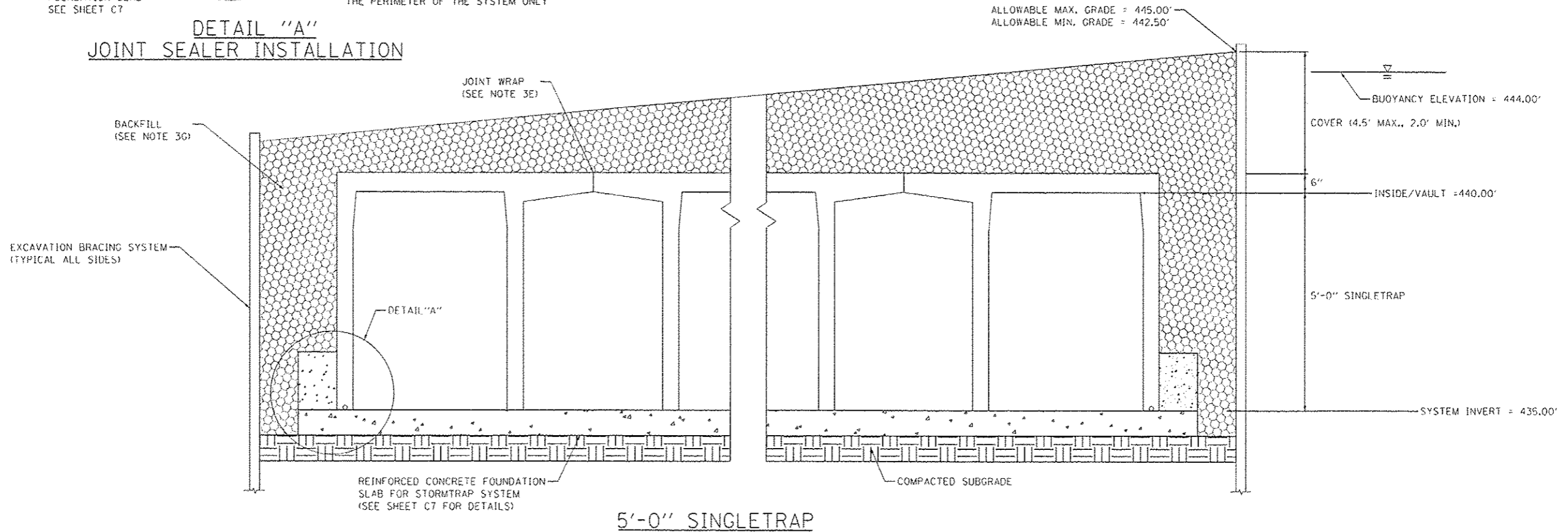
DESIGN SPECIFICATIONS

1. TOTAL COVER: MIN. 2.00', MAX. 4.50'.
2. CONCRETE CHAMBER DESIGNED FOR AASHTO HS-20 HIGHWAY LOADING. MIN. SOIL PRESSURE 4000 PSF.
3. ALL DIMENSIONS AND SOIL CONDITIONS, INCLUDING BUT NOT LIMITED TO GROUNDWATER AND SOIL BEARING CAPACITY ARE TO BE VERIFIED BY CONTRACTOR IN THE FIELD PRIOR TO STORMTRAP INSTALLATION.
4. FOR STRUCTURAL AND FLOTATION CALCULATIONS THE GROUND WATER TABLE IS ASSUMED TO BE AT THE 50-YEAR DESIGN ELEVATION OF 444.00'.



**DETAIL "A"
JOINT SEALER INSTALLATION**

NOTE: DETAILS SHOWN ARE SPECIFIC TO THE STORMTRAP SYSTEM. EQUIVALENT STORMWATER STORAGE SYSTEMS AS LISTED IN THE SPECIFICATIONS OR APPROVED BY THE ENGINEER MAY ALSO BE USED.



5'-0" SINGLETRAP

11/25/2014 11:25:28 AM EXP\K... \PFS-2014\AVVAULT_1-D-TRANS_87A\FRCH\1081241-02\CIVIL\CDV22858A\SHEET\0672858-SHT_084106.DWG

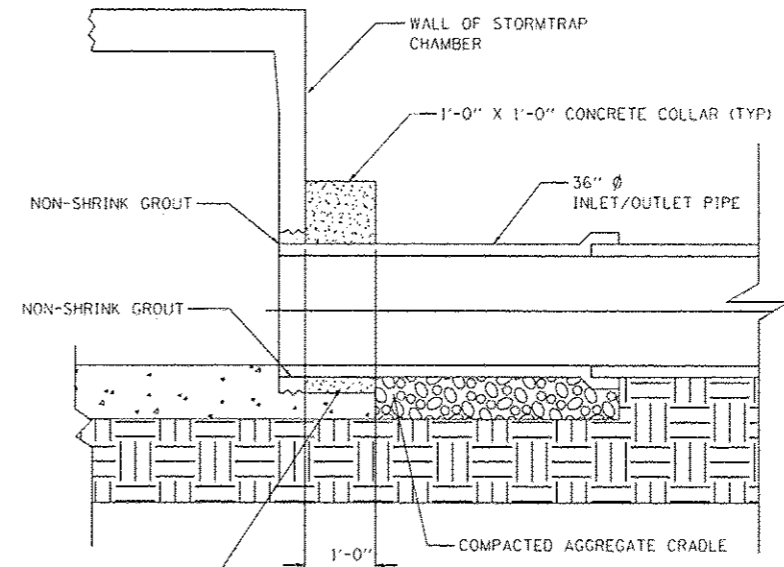
FILE NAME =	USER NAME = #USER#	DESIGNED - KS	REVISED - ADDENDUM NO. 1 11/25/2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 745 / IL ROUTE 104		IL-104 PUMP STATION UNDERGROUND STORAGE CHAMBER DETAILS - 1 OF 3			F.A.P. RTE. =	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#		DRAWN - KS	REVISED -						745	109R5-6, 123R5-3, *	MORGAN/PIKE	782	590
exp. U.S. Services Inc. CHICAGO # BUILDINGS-EARTH ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABILITY	PLOT SCALE = #SCALE#	CHECKED - SH	REVISED -						SCALE: N.T.S.		SHEET C6 OF 8 SHEETS	STA.	TO STA.
	PLOT DATE = #DATE#	DATE - 11/25/2014	REVISED -										

RECOMMENDED ACCESS MANHOLE SPECIFICATION

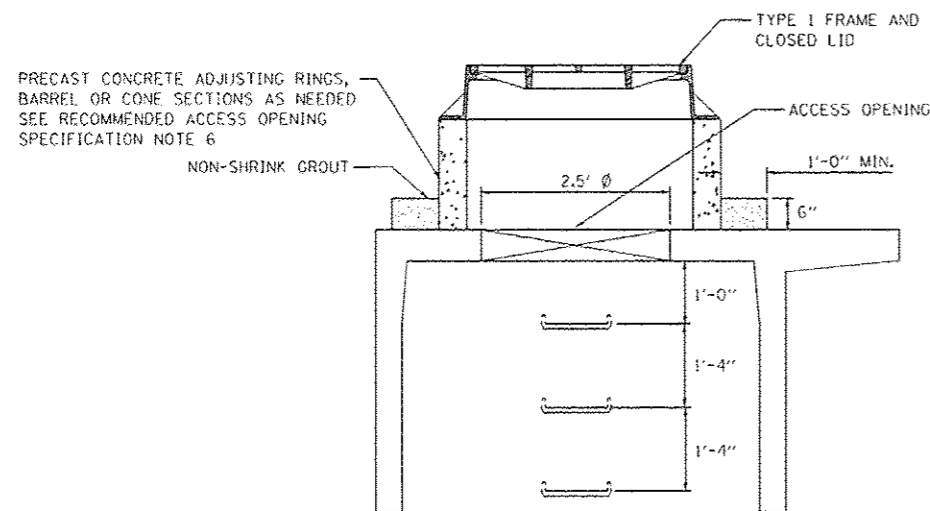
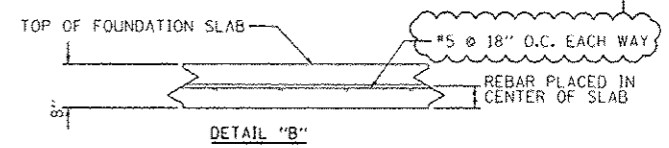
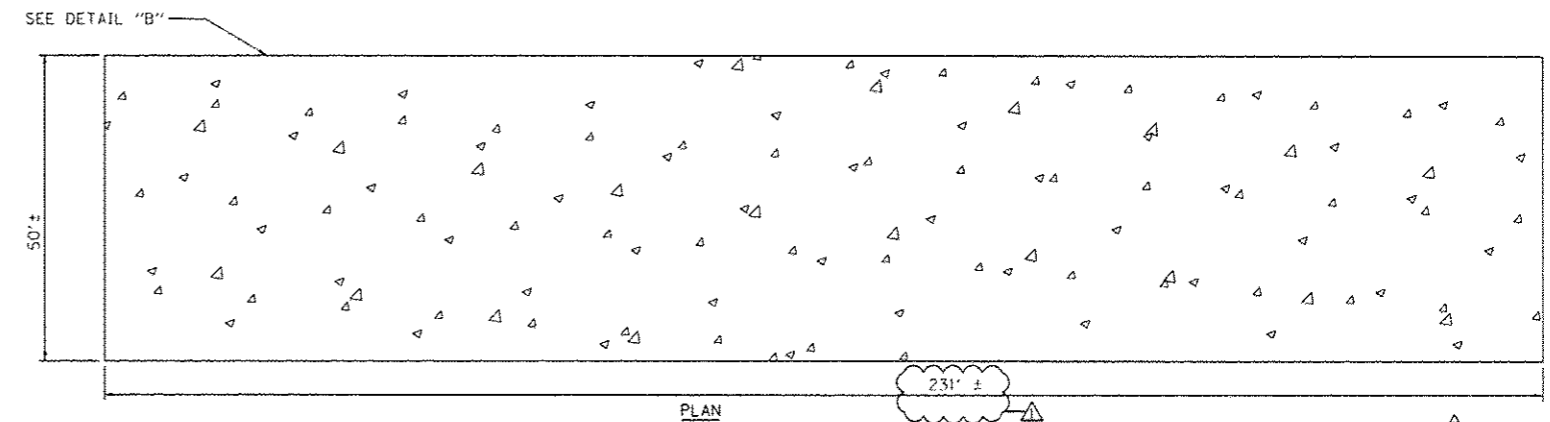
1. ACCESS MANHOLES SHOULD BE PROVIDED IN ORDER TO MEET THE APPROPRIATE MUNICIPAL REQUIREMENTS. PROVIDE THREE (3) ACCESS MANHOLES AS LOCATED ON SHEET C1 FOR INSPECTION AND CLEANUP.
2. A TYPICAL ACCESS MANHOLE FOR THE STORMTRAP SYSTEM RANGES FROM 2'-0" TO 3'-0" IN DIAMETER. ACCESS MANHOLE LARGER THAN 3'-0" IN DIAMETER NEED TO BE APPROVED BY STORMTRAP. ALL OPENINGS MUST RETAIN AT LEAST 1'-0" OF CLEARANCE IN ALL DIRECTIONS FROM THE EDGE OF THE STORMTRAP UNITS.
3. PLASTIC COATED STEEL STEPS PRODUCED BY M.A. INDUSTRIES PART #PS3-PFC (SEE DETAIL TO THE RIGHT) ARE PROVIDED INSIDE ANY UNIT WHERE DEEMED NECESSARY. THE HIGHEST STEP IN THE UNIT IS TO BE PLACED A DISTANCE OF 1'-0" FROM THE INSIDE EDGE OF THE STORMTRAP UNITS. ALL ENSUING STEPS SHALL BE PLACED WITH A MAXIMUM DISTANCE OF 1'-4" BETWEEN THEM. STEPS MAY BE MOVED OR ALTERED TO AVOID OPENING OR OTHER IRREGULARITIES IN THE UNIT.
4. STORMTRAP LIFTING INSERTS MAY BE RELOCATED TO COINCIDE WITH THE ACCESS OPENING OR THE CENTER OF GRAVITY OF THE UNIT AS NEEDED.
5. STORMTRAP ACCESS OPENINGS MAY BE RELOCATED TO AVOID INTERFERENCE WITH INLET AND/OR OUTLET PIPE OPENINGS SO PLACEMENT OF STEPS IS ATTAINABLE.
6. USE PRECAST ADJUSTING RINGS AS NEEDED TO MEET GRADE. STORMTRAP RECOMMENDS FOR COVER OVER 2' TO USE PRECAST BARREL OR CONE SECTIONS.

RECOMMENDED PIPE CONNECTION SPECIFICATION

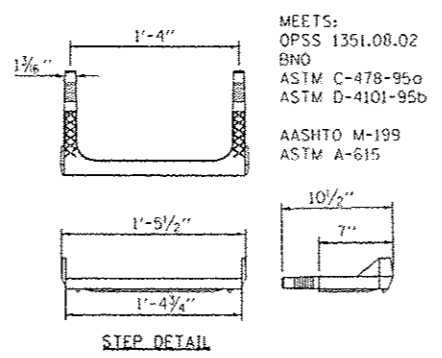
1. MINIMUM EDGE DISTANCE FOR AN OPENING ON THE OUTSIDE WALL SHALL BE NO LESS THAN 1'-0".
2. MAXIMUM OPENING SIZE TO BE DETERMINED BY UNIT HEIGHT. PREFERRED OPENING SIZE 36" Ø OR LESS. ANY OPENING NEEDED THAT DOES NOT FIT THIS CRITERIA SHALL BE BROUGHT TO THE ATTENTION OF STORMTRAP FOR REVIEW.
3. CONNECTING PIPES SHALL BE INSTALLED WITH A 1'-0" CONCRETE COLLAR, AND A COMPACTED AGGREGATE CRADLE FOR AT LEAST ONE PIPE LENGTH, AS SHOWN. A STRUCTURAL GRADE CONCRETE OR GROUT WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 3000 PSI SHALL BE USED.
4. CLEAN AND LIGHTLY LUBRICATE ALL OF PIPE TO BE INSERTED INTO STORMTRAP.
5. IF PIPE IS CUT, CARE SHOULD BE TAKEN TO ALLOW NO SHARP EDGES. BEVEL AND LUBRICATE LEAD END OF PIPE.
6. ALIGN CENTER OF PIPE TO CORRECT ELEVATION AND INSERT INTO OPENING.
7. THE ANNULAR SPACE BETWEEN THE PIPE AND THE HOLE SHALL BE FILLED WITH NON-SHRINK GROUT.



FOUNDATION PIPE CONNECTION



RISER / STAIR DETAIL



STEP DETAIL

MEETS:
 OPSS 1351.08.02
 BNO
 ASTM C-478-95a
 ASTM D-4101-95b
 AASHTO M-199
 ASTM A-615

NOTES:

1. CONCRETE STRENGTH 3500 PSI @ 14 DAYS. 5%-8% ENTRAINED AIR, 4" MAX. SLUMP.
2. NET ALLOWABLE SOIL PRESSURE GREATER THAN OR EQUAL TO 4000 PSF.
3. SOIL CONDITIONS TO BE VERIFIED ON SITE BY OTHERS.
4. 1'-0" OVERHANG AROUND OUTSIDE OF SYSTEM.
5. REBAR: ASTM A-615 GRADE 60. BLACK BAR.
6. DIMENSION OF FOUNDATION MUST HAVE 1'-0" OVERHANG BEYOND EXTERNAL FACE OF UNITS.
7. DIMENSION OF STORMTRAP SYSTEM ALLOW FOR A 3/4" GAP BETWEEN EACH UNIT.
8. ALL DIMENSIONS TO BE VERIFIED IN THE FIELD BY OTHERS.
9. SEE SHEET C6 FOR INSTALLATION SPECIFICATIONS.
10. THE CONTROL JOINTS CAN BE 16'-0" TO 24'-0" MAX APART.

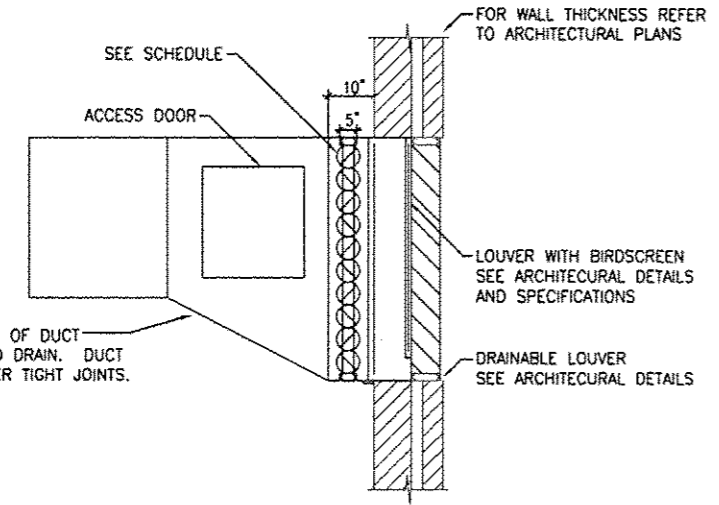
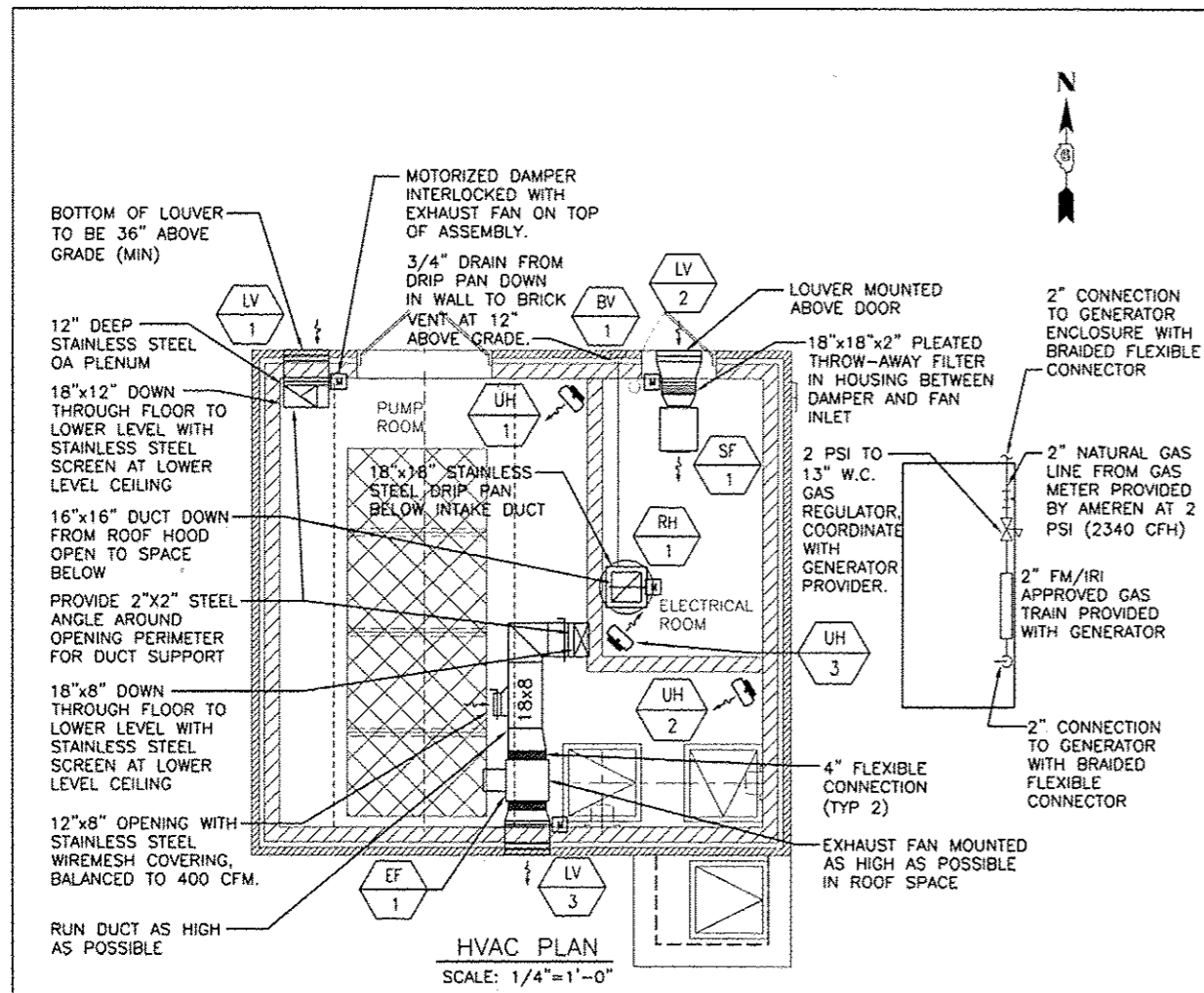
ACCESS MANHOLE

PROVIDE MINIMUM 3 ACCESS MANHOLES. SEE LOCATIONS ON SHEET C1

CONCRETE FOUNDATION SLAB

11/25/2014 13:46:37
 N:\F\B-424\ANAVALL_7.D-TRANS.27\FACILITY\2014-REV\CIVIL\CAD\2858\ASHEET\0372858-SHT-DRAWN.DWG
 NEWMANN
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FILE NAME	USER NAME	DESIGNED	REVISED	ADDENDUM NO. 1 11/25/2014	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FAP ROUTE 745 / IL ROUTE 104	IL-104 PUMP STATION UNDERGROUND STORAGE CHAMBER DETAILS - 2 OF 3		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
#FILE#	#USER#	DRAWN	REVISED					745	109RS-6, 123RS-3, *	MORGAN/PIKE	782	591
exp U.S. Services Inc. Chicago IL BUSINESS-GARTIA ENVIRONMENT-ENERGY INDUSTRIAL-INFRASTRUCTURE-SUSTAINABLE	PLOT SCALE	CHECKED	REVISED					* 123B-2, 124RS-B		CONTRACT NO. 72B58		
	PLOT DATE	DATE	REVISED					ILLINOIS FED. AID PROJECT				



TAG	LOCATION	SERVING SYSTEM	SERVICE	CFM	MIN FREE AREA SQ. FT.	MAX FPM THRU FREE AREA	SPD IN W.C.	LOUVER DIMENSION WxHxD, IN	MANUFACTURER AND MODEL	REMARKS
LV-1	PUMP ROOM	EF-1	INTAKE	1,400	2.92	479	0.05"	24"x40"x6"	RUSKIN #ELF6375DX	1 - 4, 6
LV-2	ELEC ROOM	SF-1	INTAKE	440	1.22	361	0.05"	24"x16"x6"	RUSKIN #ELF6375DX	1 - 4
LV-3	PUMP ROOM	EF-1	EXHAUST	1,400	1.89	741	0.06"	24"x24"x6"	RUSKIN #ELF6375DX	1 - 4, 6
RH-1	ELEC ROOM	SF-1	RELIEF	440	1.45	307	0.01"	29"Øx12.75"H 16"Ø NECK	GREENHECK #GRSR-16	2 - 5
BV-1	ELEC ROOM	-	DRAIN	N/A	N/A	N/A	-	SIZE TO MATCH MASONRY	RUSKIN #BV-100	7

- REMARKS:
1. PROVIDE BIRDSCREEN, DRAINABLE BLADES, AND FLANGED FRAME.
 2. PROVIDE COLOR AND FINISH AS CHOSEN BY ENGINEER.
 3. VERIFY THE EXACT MOUNTING HEIGHT, LOCATION, AND SIZE WITH THE ARCHITECTURAL DRAWINGS.
 4. PROVIDE MOTORIZED DAMPER. MOTORIZED DAMPERS SHALL INCLUDE 120V ACTUATOR, INTERLOCKED WITH ASSOCIATED FAN.
 5. PROVIDE 12" ROOF CURB, BIRD AND INSECT SCREEN.
 6. PROVIDE EQUIPMENT SUITABLE FOR CLASS 1, DIVISION II HAZARDOUS ENVIRONMENT.
 7. BRICK VENT TO BE USED FOR DRAINAGE OF DRIP PAN BELOW RH-1. EXTRUDED ALUMINUM WITH INSECT SCREEN.

TAG	LOCATION	SERVICE	CFM	F.S.P. IN WC	FAN DATA				MOTOR DATA				MANUFACTURER AND MODEL	UNIT WT LBS.	REMARKS	
					FAN TYPE	CLASS	RPM	DRIVE	BHP	HP	VOLT	PH				HZ
EF-1	PUMP ROOM	EXHAUST	1400	0.30	IN-LINE CENT	1	964	BELT	0.21	1/4	120	1	60	GREENHECK #BSQ-140	121	1,2,4,5,6
SF-1	ELEC ROOM	SUPPLY	440	0.30	IN-LINE CENT	1	1450	BELT	0.10	1/4	120	1	60	GREENHECK #BCF-106	79	1-4, 7

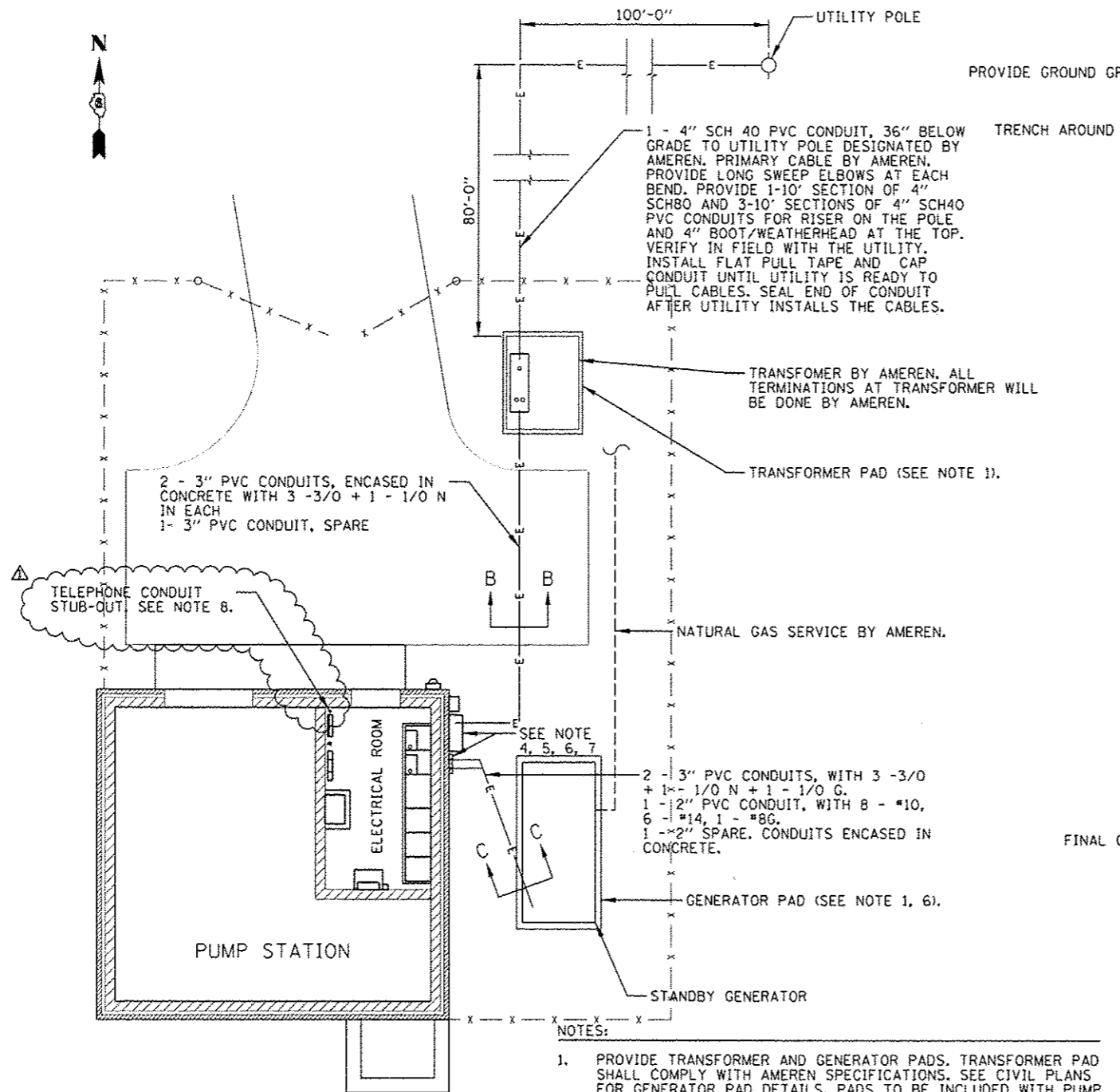
- REMARKS:
1. VERIFY EXACT VOLTAGE PRIOR TO ORDERING EQUIPMENT.
 2. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND LINE WIRING.
 3. PROVIDE STAINLESS STEEL WIREMESH GUARD ON FAN OUTLET.
 4. PROVIDE WALL HOUSING WITH FILTER RACK.
 5. PROVIDE MOTOR COVER AND EXPLOSION-PROOF, HIGH EFFICIENCY MOTOR
 6. PROVIDE EQUIPMENT SUITABLE FOR CLASS 1, DIVISION II HAZARDOUS ENVIRONMENT.
 7. MOUNT FAN ABOVE LIGHTING WITHIN SPACE AND 9'-4" AFF TO PROVIDE ACCESS TO MCC EQUIPMENT. COORDINATE WITH ELECTRICAL CONTRACTOR.

DAMPER TAG	EQUIPMENT SERVING	DESIGN FLOW RATE (CFM)	DAMPER SIZE
D-LV1	LV-1	1400	24"x36"
D-LV2	LV-2	440	24"x16"
D-LV3	LV-3	1400	24"x24"
D-RH1	RH-1	440	16"x16"

- FAN CONTROLS:**
 SF-1 TO RUN WHEN THERMOSTAT GOES ABOVE SETPOINT OF 85°F (ADJ.).
- EF-1 TO RUN ON:**
 1. ALERT FROM GAS DETECTION SYSTEM. SYSTEM TO RUN FOR A MINIMUM OF 30 MINUTES OR WHEN GAS DETECTION SYSTEM STOPS SENDING A SIGNAL.
 2. THERMOSTAT GOES ABOVE SETPOINT OF 85°F (ADJ.).
 3. LIGHTING IN THE GRADE LEVEL PUMP ROOM ARE TURNED TO THE "ON" POSITION. FAN TO TURN OFF WHEN LIGHTS TURN OFF.
- THE OUTDOOR AIR INTAKE DAMPER (D-LV1) ACTUATOR & EXHAUST LOUVER DAMPER (D-LV3) TO BE ENERGIZED AND OPEN UPON FAN (EF-1) OPERATION. THESE DAMPERS TO BE NORMALLY CLOSED.

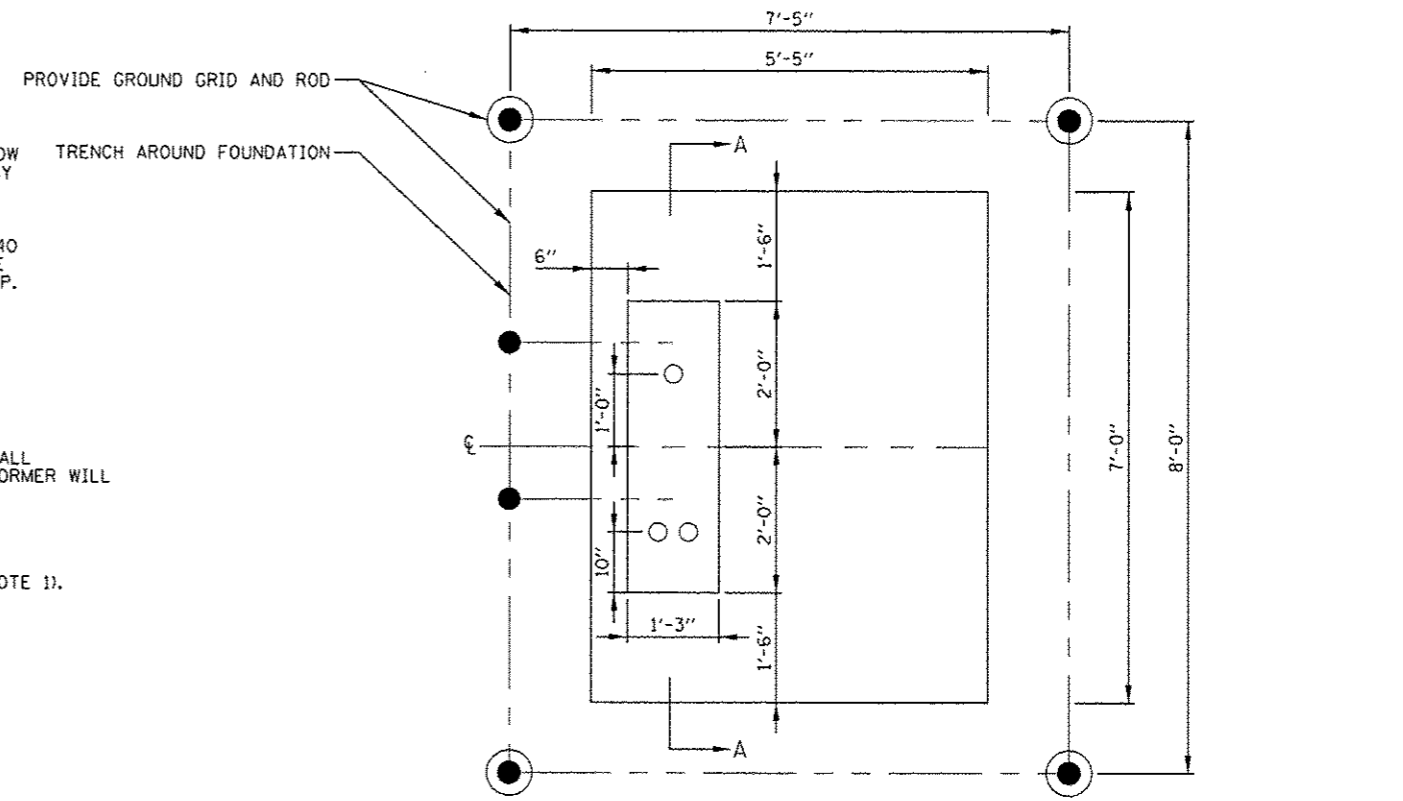
TAG	LOCATION	MOUNTING	THERMOSTAT MOUNTING	UNIT SIZE	HTG. ELEMENT			FAN/MOTOR DATA			DISCHARGE	UNIT DATA				MANUFACTURER AND MODEL	REMARKS
					KW	LAT °F @ 70°F EAT	CFM	QTY	HP	DIMENSIONS WxHxD		WEIGHT, LBS	V	PH	HZ		
UH-1	PUMP ROOM	SUSP	UNIT	03	3	83	700	1	-	HORIZ	18.5"x19"x21"	133	480	3	60	QMARK #GUX3004832	1-5
UH-2	PUMP ROOM	SUSP	UNIT	03	3	83	700	1	-	HORIZ	18.5"x19"x21"	133	480	3	60	QMARK #GUX3004832	1-5
UH-3	ELEC ROOM	SUSP	UNIT	03	3	97	350	1	1/100	HORIZ	16"x14"x7.5"	27	480	3	60	QMARK #MUH-03-41	1-4

- REMARKS:
1. VERIFY EXACT VOLTAGE PRIOR TO ORDERING EQUIPMENT.
 2. ELECTRICAL CONTRACTOR SHALL PROVIDE DISCONNECT SWITCH AND LINE WIRING.
 3. PROVIDE LOUVER DIFFUSER ON UNIT HEATERS DISCHARGE.
 4. PROVIDE WALL/CEILING BRACKET AS REQUIRED FOR PROPER MOUNTED OF UNIT. MOUNT AT A MINIMUM OF 7'-6" AFF.
 5. PROVIDE EQUIPMENT SUITABLE FOR CLASS 1, DIVISION II HAZARDOUS ENVIRONMENT.



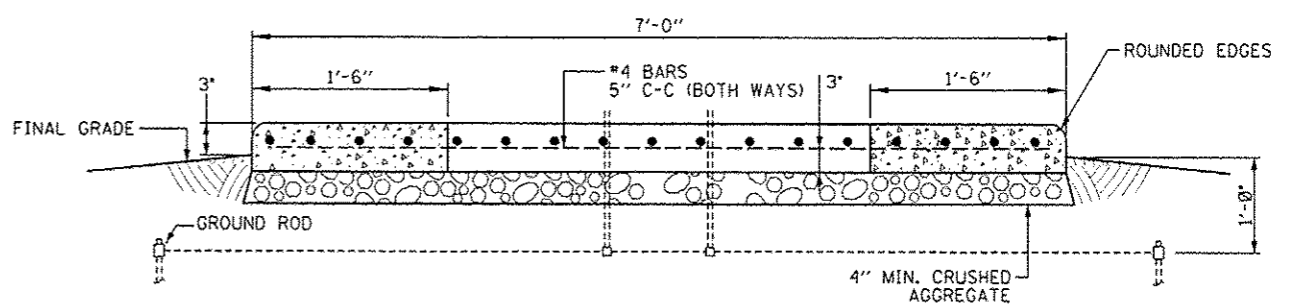
ELECTRICAL SITE PLAN
SCALE: 1" = 5'-0"

- NOTES:
1. PROVIDE TRANSFORMER AND GENERATOR PADS. TRANSFORMER PAD SHALL COMPLY WITH AMEREN SPECIFICATIONS. SEE CIVIL PLANS FOR GENERATOR PAD DETAILS. PADS TO BE INCLUDED WITH PUMP STATION ELECTRICAL WORK.
 2. SEE E-17 & E-18 FOR GROUNDING PLANS AND DETAILS.
 3. SEE E-16 FOR CT, PT, AND METER WIRING AND LAYOUT, AND WALL PENETRATION DETAILS.
 4. PROVIDE CT, PT, AND METER CABINETS AND LB TYPE CONDUIT BODIES FOR GENERATOR FEEDERS AND CONTROL WIRING. COORDINATE THEIR LOCATION WITH THE SERVICE ENTRANCE EQUIPMENT IN MCC.
 5. EXTEND CONDUITS TO MAIN & GEN COMPARTMENT, ATS, AP-1, AND CONTROL PANEL. PROVIDE CONDUIT SEALS IN THE WALL. SEE E-16 FOR DETAILS.
 6. SEAL INSIDE OF CONDUITS WITH STEEL WOOL AND FLEXIBLE PUTTY TO PREVENT MICE INFESTATION.
 7. STUB UP AND CAP SPARE CONDUITS AT BOTH ENDS.
 8. COORDINATE WITH TELEPHONE COMPANY AND PROVIDE 2" PVC COATED RIGID STEEL DIRECT BURIED CONDUIT FROM THE UTILITY POLE SHOWN TO PUMP STATION.

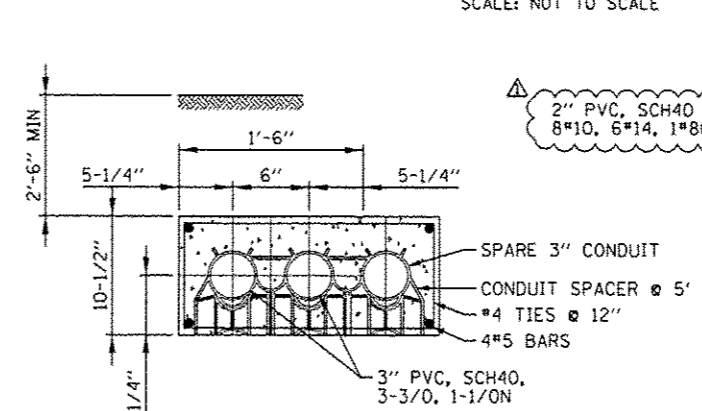


AMEREN TRANSFORMER PAD DETAIL
SCALE: NOT TO SCALE

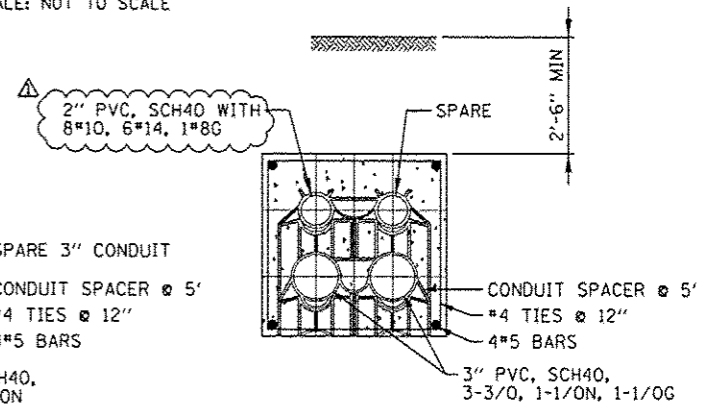
- NOTES:
1. SEE E-17 FOR GROUNDING CABLE CONNECTION DETAILS



SECTION A-A
SCALE: NOT TO SCALE



SECTION B-B
SCALE: NOT TO SCALE



SECTION C-C
SCALE: NOT TO SCALE

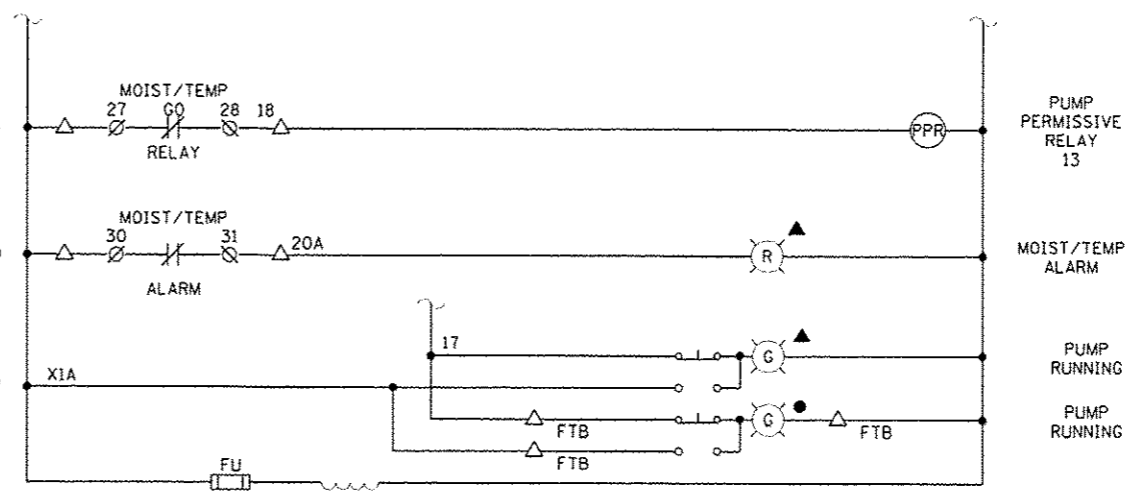
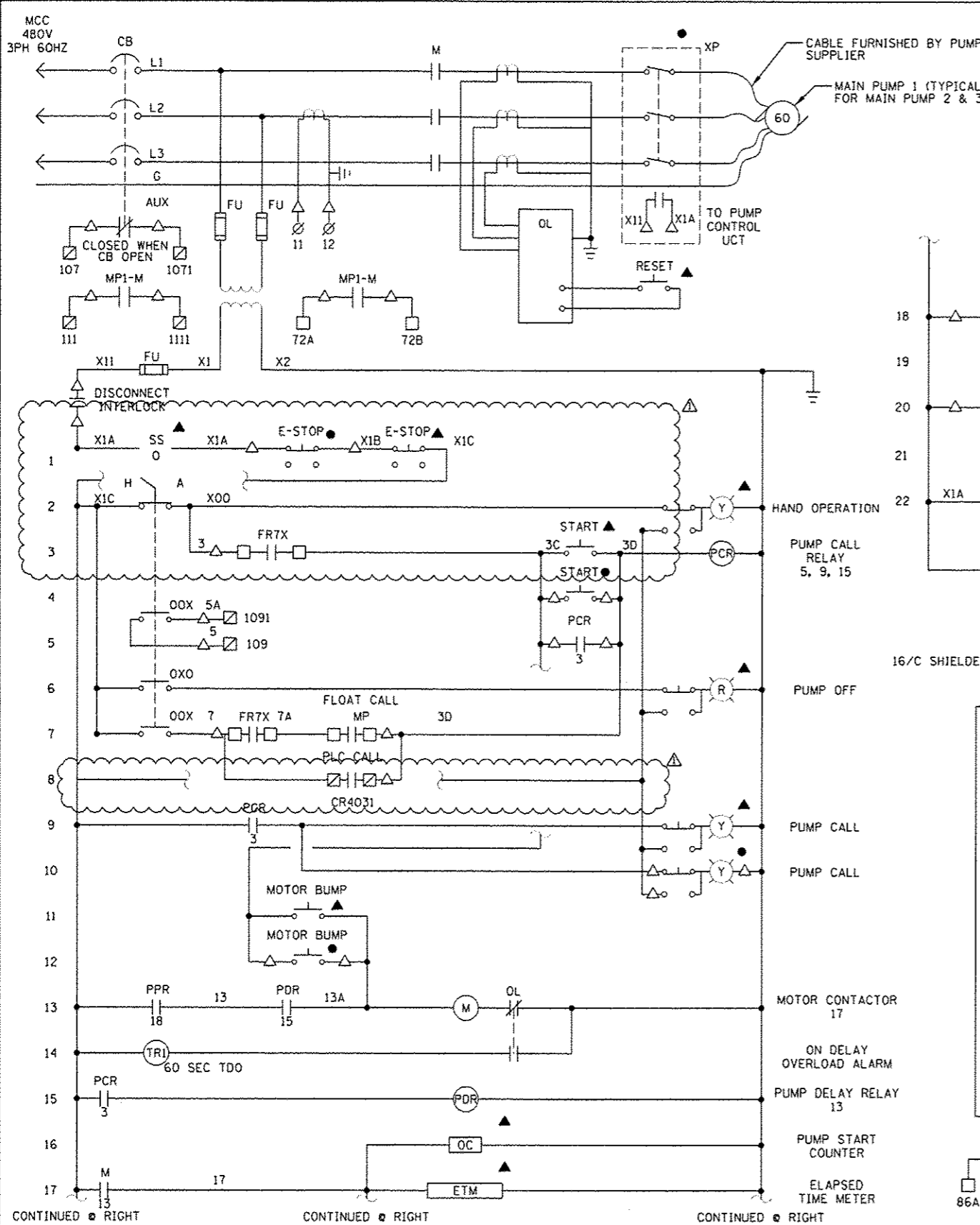
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		DRAWN - RV	REVISED -
		CHECKED - JC	REVISED -
		APPROVED - JZ	REVISED -
PLOT SCALE - AS SHOWN			
PLOT DATE - 10/31/2014			

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

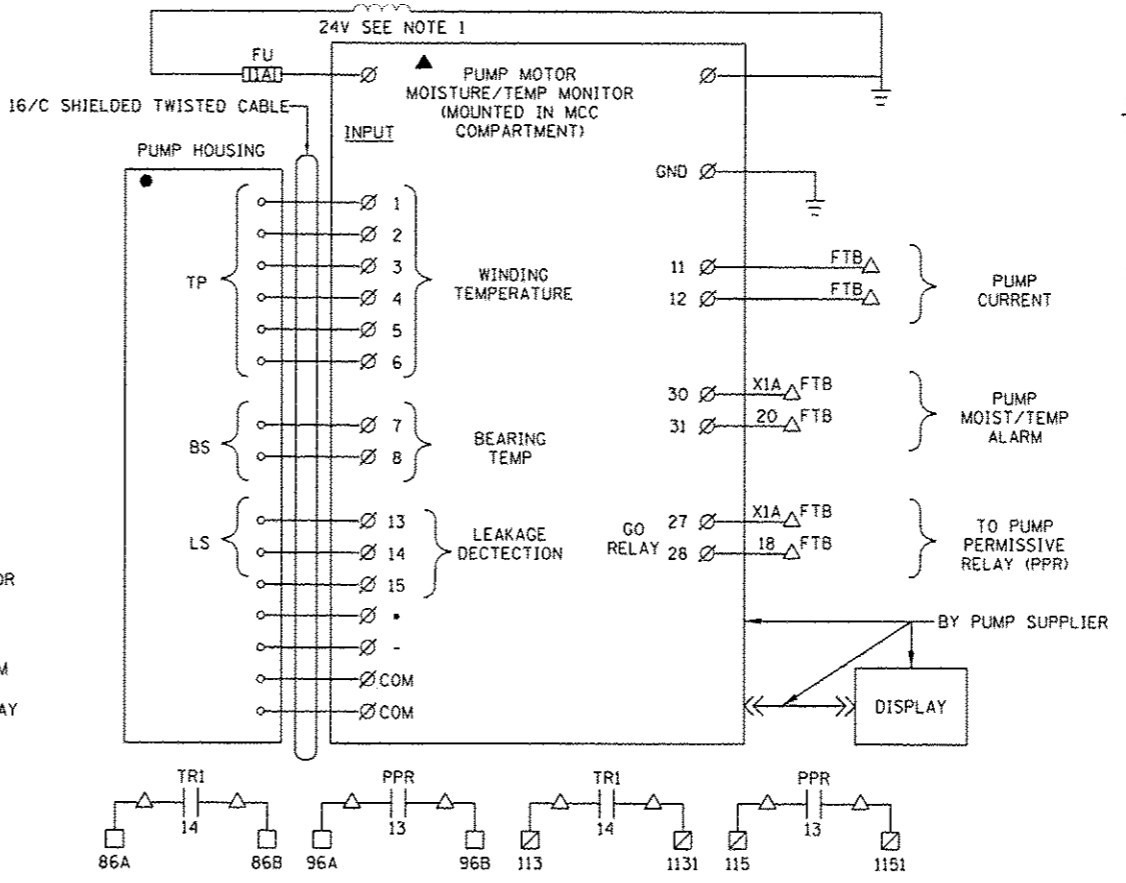
**IL-104 PUMP STATION
ELECTRICAL SITE PLAN AND DETAILS**

SCALE:	SHEET NO. E-2 OF 18 SHEETS	STA.	TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
745	123B-2	MORGAN	782	631
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		CONTRACT NO. 72B58



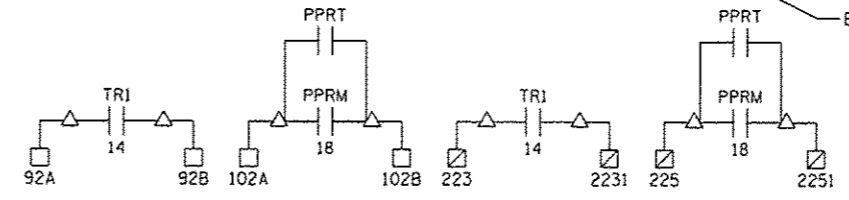
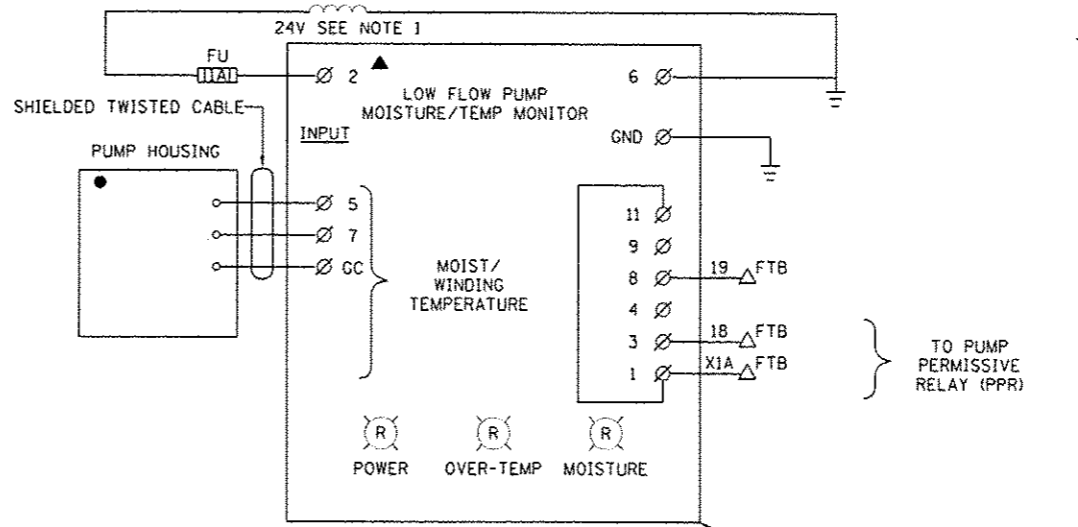
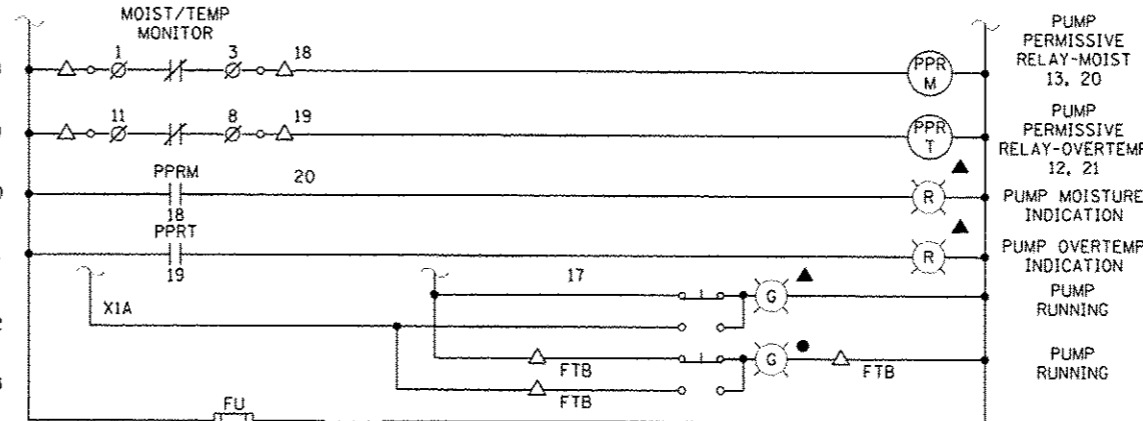
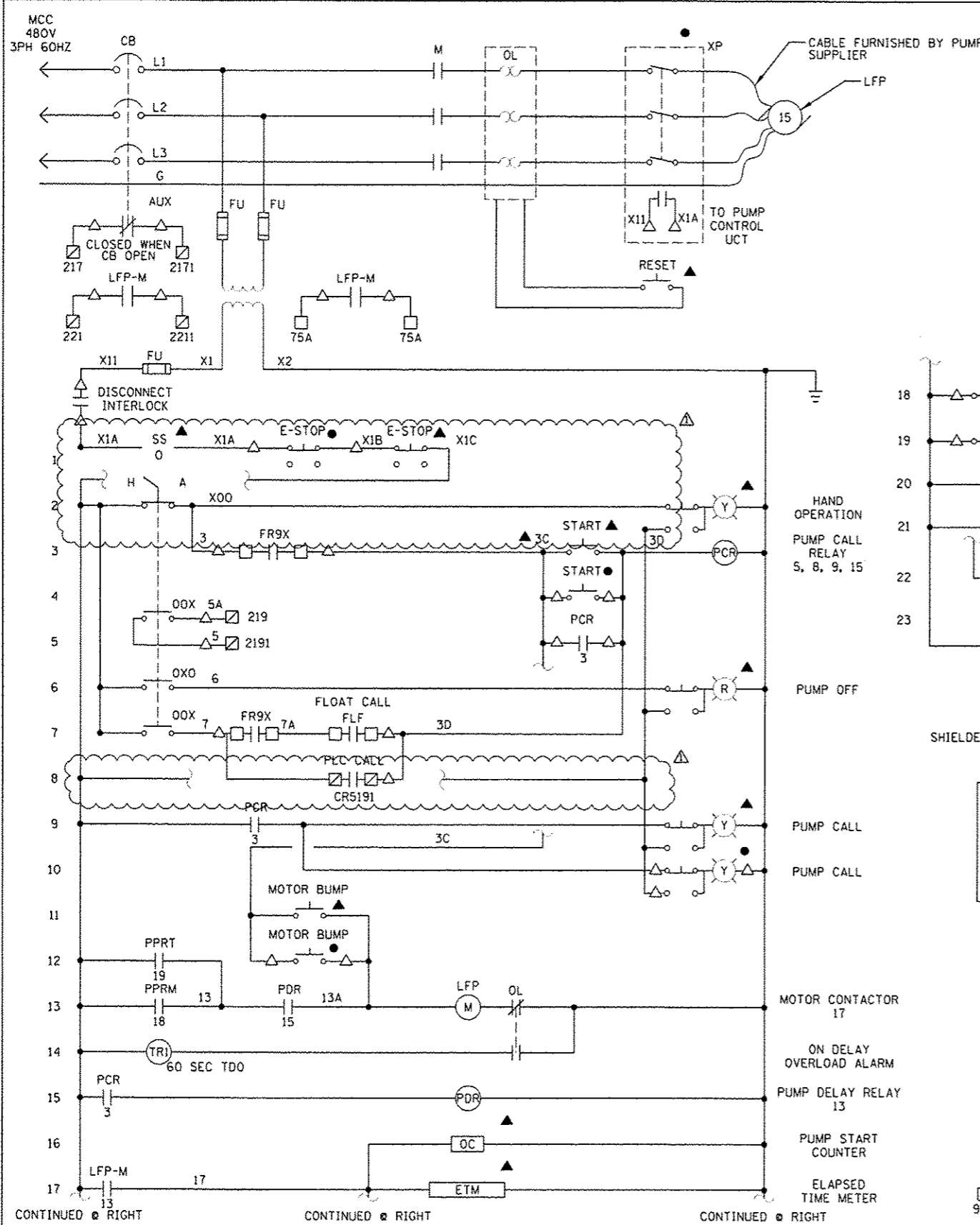
- LEGEND**
- △ TERMINAL IN MOTOR STARTER
 - TERMINAL IN CONTROL PANEL
 - ▣ PLC TERMINAL IN CONTROL PANEL
 - ⊗ TERMINAL IN PUMP MONITOR
 - DEVICE LOCALLY MOUNTED
 - ▲ DEVICE LOCATED ON MCC COMPARTMENT DOOR
 - DEVICE IN CONTROL PANEL
 - ◇ COMBUSTIBLE GAS DETECTOR PANEL TERMINAL
 - ◊ FIRE ALARM PANEL TERMINAL
 - ◈ INTRUSION ALARM PANEL TERMINAL
 - ⊠ VENTILATION PANEL TERMINAL
 - ▧ GENERATOR CONTROL PANEL TERMINAL



- NOTES:**
- COORDINATE WITH PUMP SUPPLIER, INSTALL MONITOR IN MCC COMPARTMENT. INSTALL DISPLAY ON DOOR, AND PROVIDE CONTROL TRANSFORMER AND SENSOR WIRING FOR THE INSTALLED EQUIPMENT. BEARING TEMPERATURE SWITCHES MAY BE PROVIDED IN LIEU OF BEARING TEMPERATURE SENSORS SHOWN.
 - WIRE NUMBERS SHOWN FOR MP-1. TYPICAL FOR MP-2 AND MP-3.

WIRE NUMBER PREFIX TABLE	
PUMP	PREFIX
MAIN PUMP 1	MP1-##
MAIN PUMP 2	MP2-##
MAIN PUMP 3	MP3-##
LOW FLOW PUMP	LFP-##

MAIN PUMP NO. 1 CONTROL SCHEMATIC (TYPICAL FOR OTHER MAIN PUMPS)



- LEGEND**
- △ TERMINAL IN MOTOR STARTER
 - TERMINAL IN CONTROL PANEL
 - ▣ PLC TERMINAL IN CONTROL PANEL
 - ⊗ TERMINAL IN PUMP MONITOR
 - DEVICE LOCALLY MOUNTED
 - ▲ DEVICE LOCATED ON MCC COMPARTMENT DOOR
 - DEVICE IN CONTROL PANEL
 - ◇ COMBUSTIBLE GAS DETECTOR PANEL TERMINAL
 - ◊ FIRE ALARM PANEL TERMINAL
 - ◈ INTRUSION ALARM PANEL TERMINAL
 - ⊠ VENTILATION PANEL TERMINAL
 - ◡ GENERATOR CONTROL PANEL TERMINAL

- NOTES:**
1. COORDINATE WITH PUMP SUPPLIER, INSTALL MONITOR IN MCC DOOR, AND PROVIDE CONTROL TRANSFORMER AND SENSOR WIRING FOR THE INSTALLED EQUIPMENT.
 2. SEE E-5 FOR WIRE PREFIX DESIGNATION FOR LOW FLOW PUMP.

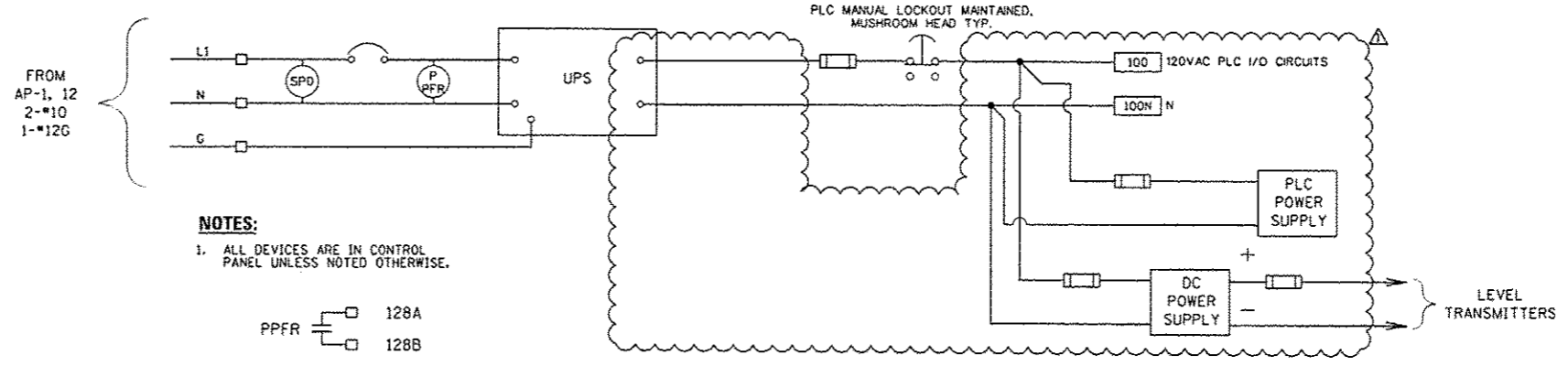
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MILHOUSE ENGINEERING & CONSTRUCTION	DRAWN: RV	CHECKED: JC	REVISED:
	PLOT SCALE: AS SHOWN	APPROVED: JZ	REVISED:
	PLOT DATE: 10/31/2014		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

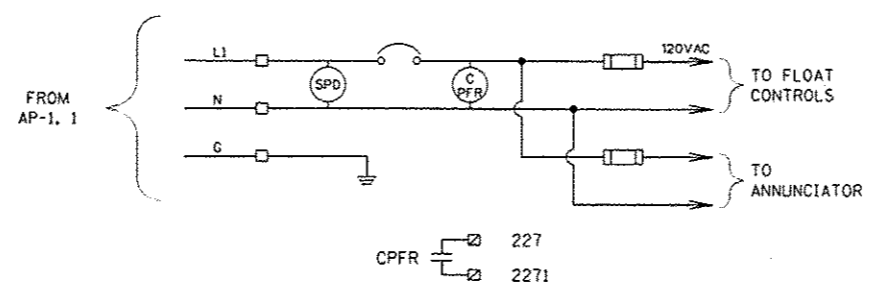
IL-104 PUMP STATION
LOW FLOW PUMP CONTROL SCHEMATIC

F.A. R.T.E. NO. 745	SECTION 1230-2	COUNTY MORGAN	TOTAL SHEETS 762	SHEET NO. 635
SCALE:		SHEET NO. E-6 OF 18 SHEETS		STA. TO STA.
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

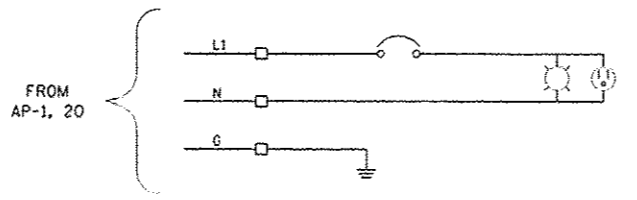
CONTINUED ◉ RIGHT CONTINUED ◉ RIGHT CONTINUED ◉ RIGHT



PLC POWER WIRING DIAGRAM



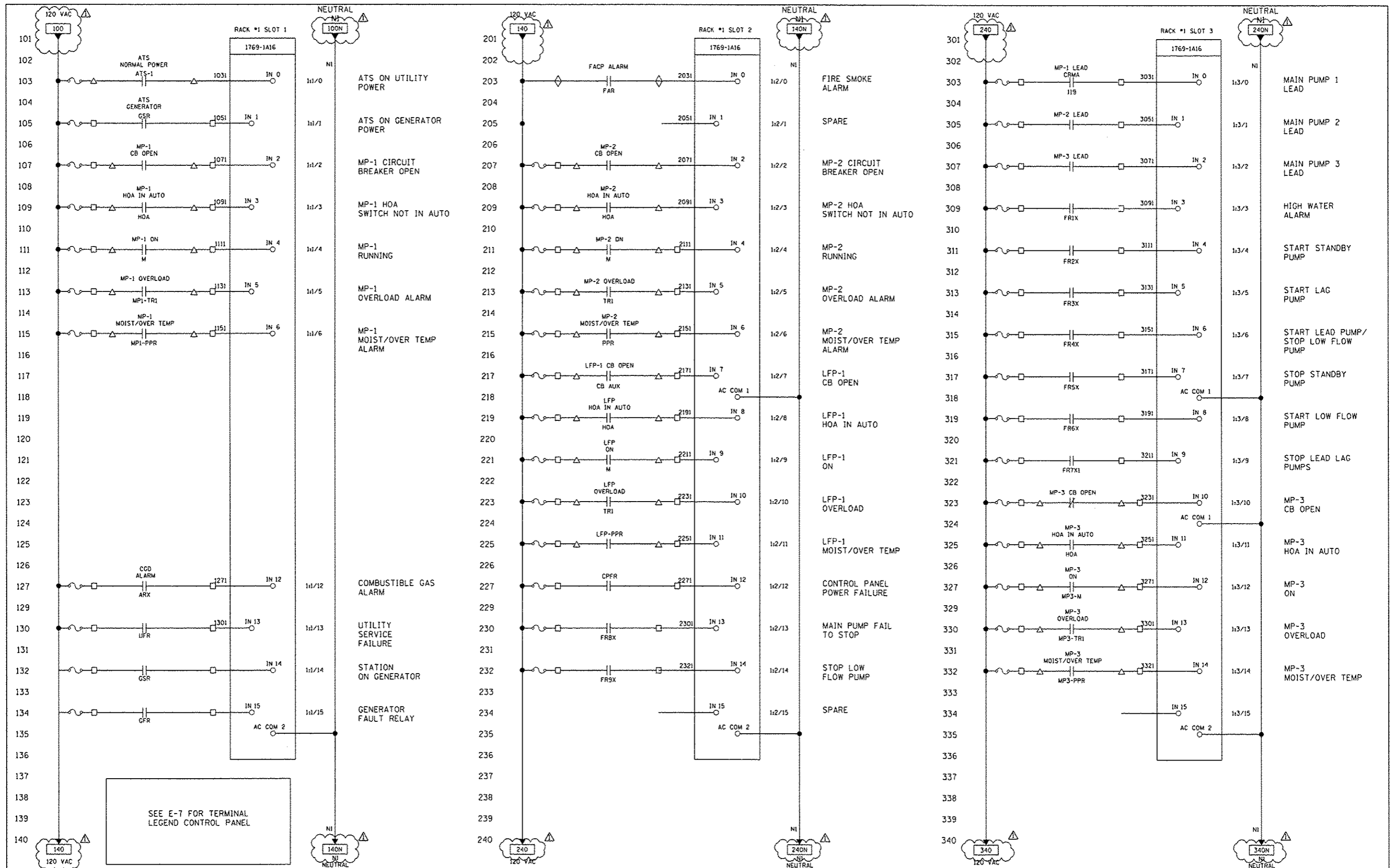
CONTROL PANEL POWER WIRING



CONTROL PANEL LIGHT AND RECEPTACLE

GENERAL NOTES:
1. THE SURGE PROTECTIVE DEVICES FOR CONTROL AND PLC POWER SHALL BE EMERSON ISLATROL IE-120 OR EQUAL.

SEE E-7 FOR TERMINAL LEGEND



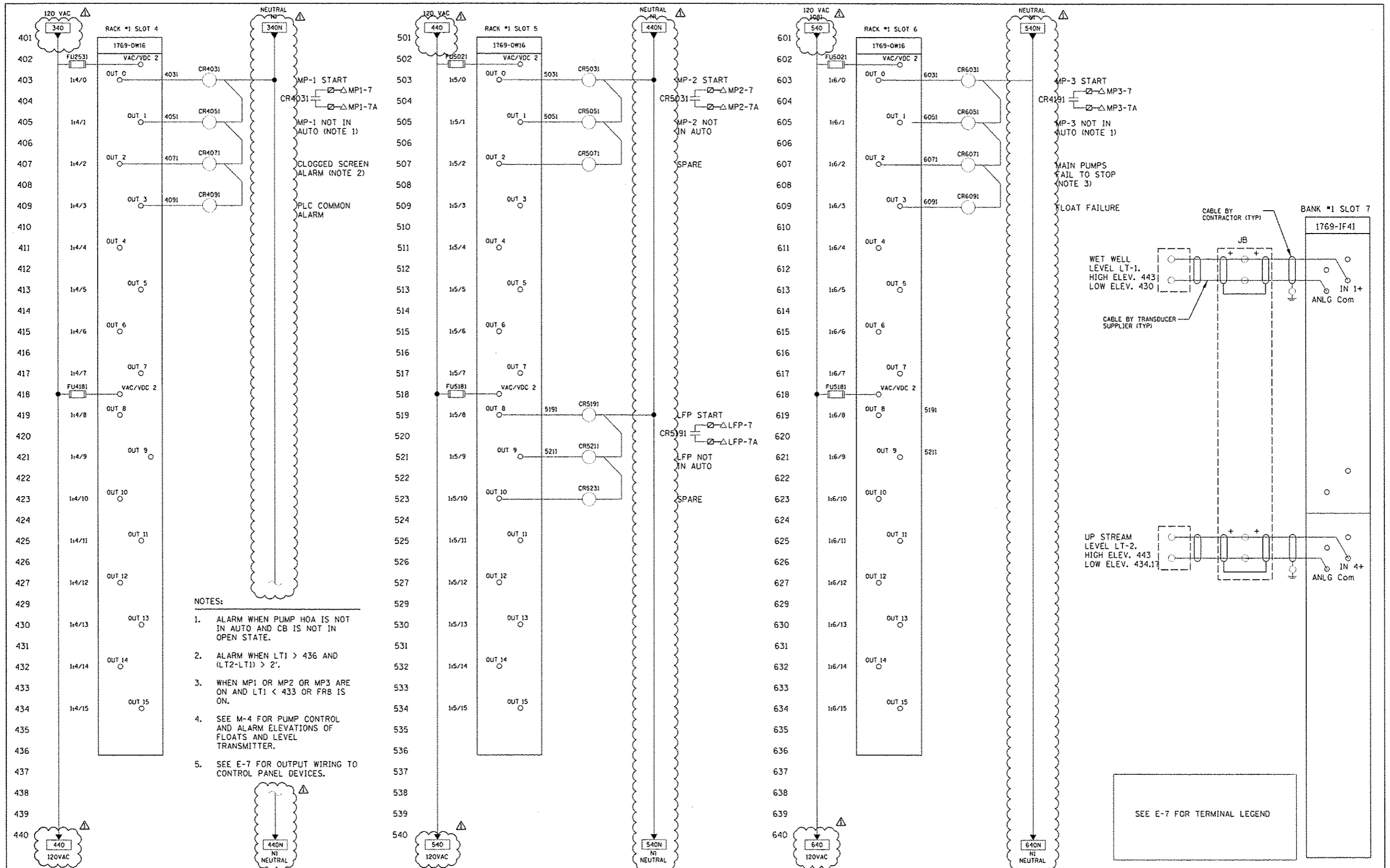
FILE NAME E-9.dgn	USER NAME jeburto	DESIGNED RV	REVISED ADDENDUM NO. 1 11/25/2014
		DRAWN RV	REVISED
		CHECKED JC	REVISED
		APPROVED JZ	REVISED
PLOT SCALE AS SHOWN		PLOT DATE 10/31/2014	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL-104 PUMP STATION
PLC I/O WIRING, SHEET 1 OF 2**

SCALE: SHEET NO. E-9 OF 18 SHEETS STA. TO STA.

F.A. RTE. 745	SECTION 123B-2	COUNTY MORGAN	TOTAL SHEETS 782	SHEET NO. 638
CONTRACT NO. 72B58				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



- NOTES:
1. ALARM WHEN PUMP HOA IS NOT IN AUTO AND CB IS NOT IN OPEN STATE.
 2. ALARM WHEN LT1 > 436 AND (LT2-LT1) > 2'.
 3. WHEN MP1 OR MP2 OR MP3 ARE ON AND LT1 < 433 OR FRB IS ON.
 4. SEE M-4 FOR PUMP CONTROL AND ALARM ELEVATIONS OF FLOATS AND LEVEL TRANSMITTER.
 5. SEE E-7 FOR OUTPUT WIRING TO CONTROL PANEL DEVICES.

SEE E-7 FOR TERMINAL LEGEND