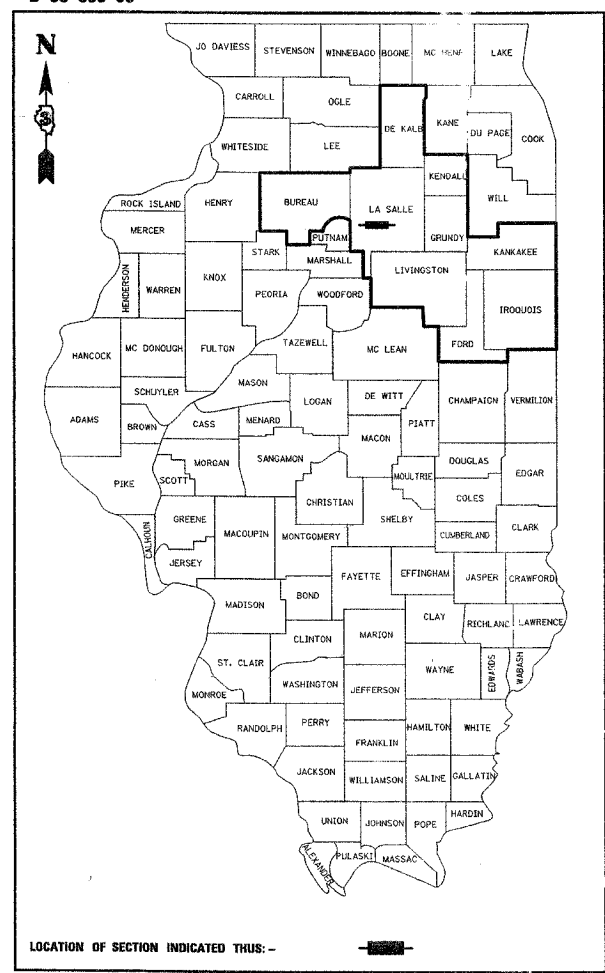


FAP RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LaSALLE	106	1
F.H.W.A. REG.		ILLINOIS	PROJECT	

P-93-032-99
D-93-038-00



LOCATION OF SECTION INDICATED THIS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY IMPROVEMENT

**F.A.P. RTE. 627 (IL RTE. 71)
SECTION (I-1) BR & I
LaSALLE COUNTY
C-93-141-03
PROJECT F-0627 (012)**

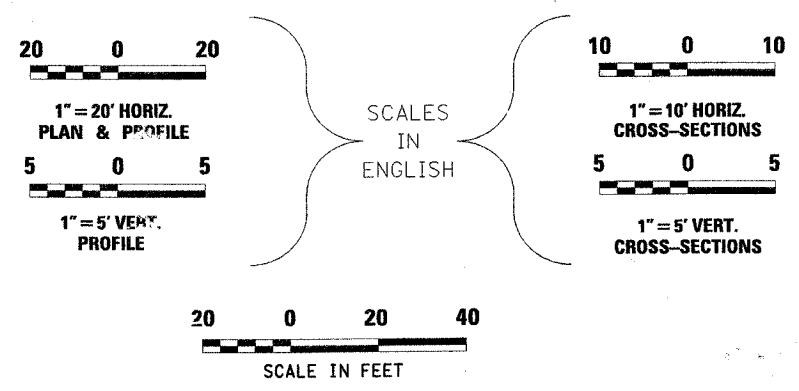
**THREE CULVERT REPLACEMENTS AND
ONE RETAINING WALL PLACEMENT, AT
VARIOUS LOCATIONS IN STARVED ROCK
STATE PARK EAST OF IL 178**

INDEX OF SHEETS

1	COVER SHEET
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25-28	LIMITS OF CONSTRUCTION, EROSION CONTROL AND TREE REMOVAL PLAN
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35-48	S. N. 050-C804
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61-86	S. N. 050-O239
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90	DISTRICT DETAIL AND DETAILS
91-106	CROSS SECTIONS

STANDARDS

000001-04	602401-01	701011-01
001001	604001-02	701201-02
280001-02	606001-02	701301-02
285001-01	609006-02	701306-01
353001-02	630001-06	701311-02
420401-05	631031-05	701326-02
515001-02	635006-02	702001-06
601101	635011-01	780001-01
602301-01	701001-01	781001-02
602306-01	701006-02	BLR 21-6



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

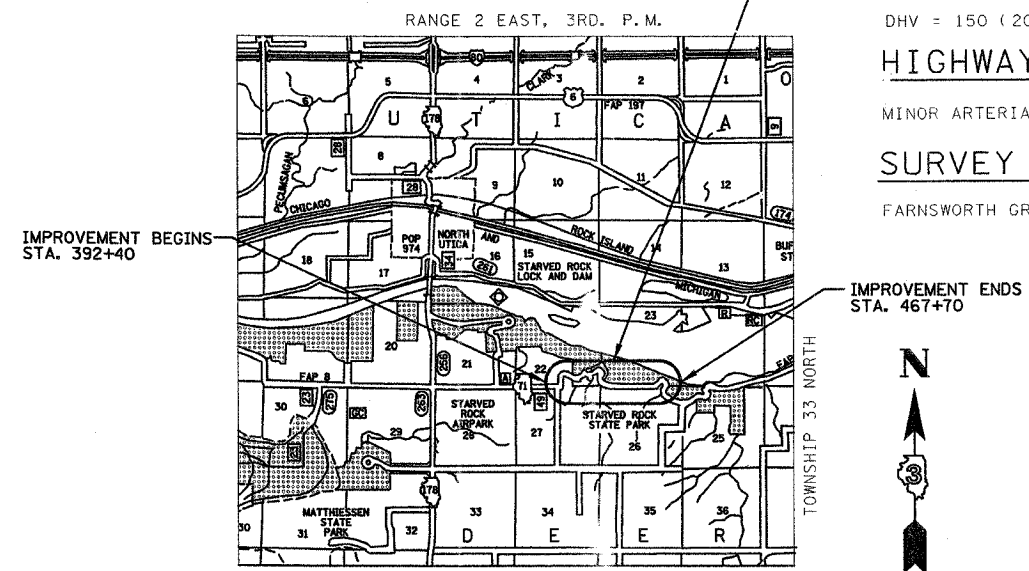
MICROFILMED _____
REEL NUMBER _____
AWARDED _____
RESIDENT ENGINEER _____
AS BUILT CHANGES WERE MADE ON THE FOLLOWING SHEETS _____

JULIE 800-892-0123
DISTRICT NO. (815) 434-6131
PROJECT ENGINEER: DANIEL J. DRAPER
UNIT: PA BRABOY
COUNTY: DEER PARK

CONTRACT # 66372

- 1.) CULVERT @ STA. 393+00.00
- 2.) S.N. 050-C804 @ STA. 416+44.62
- 3.) CULVERT @ STA. 437+31
- 4.) S.N. 050-W004 @ STA. 462+24.35 TO STA. 464+94.66
- 5.) S.N. 050-O239 @ STA. 465+35.39

NOTE: SEE PLANS FOR LOCATION AND DETAILS



LOCATION MAP



GROSS LENGTH OF IMPROVEMENT = 7,530 FEET = (1.43 MILES)
NET LENGTH OF IMPROVEMENT = 927 FEET = (0.18 MILES)

DESIGN DESIGNATION

POSTED ADVISORY SPEED _____ MPH
ADT = 1500 (2005) 174
% SU = 1.6%
% MU = 0.8%
DHV = 150 (2005) 174

HIGHWAY CLASSIFICATION

MINOR ARTERIAL (RURAL)

SURVEY BOOK NOS.

FARNSWORTH GROUP, INC. - BOOK 2490

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED May 15, 2006
Mark S. Wylie
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

October 13, 2006
Mike J. Lee
ENGINEER OF DESIGN AND ENVIRONMENT

October 13, 2006
Milton R. Sees, P.E.
DIRECTOR, DIVISION OF HIGHWAYS



Mark S. Wylie Date 5/15/06
MARK S. WYLIE
ILLINOIS PROFESSIONAL ENGINEER
NO. 06376
EXPIRES 12/31/07



2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/363-1711 fax
PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	2
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

GENERAL NOTES

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

EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

BEFORE ORDERING PIPE CULVERTS OR PIPE DRAINS, THE CONTRACTOR SHALL CONSULT THE ENGINEER FOR EXACT LENGTHS.

AGGREGATE (PRIME COAT): FA 20 MAY BE USED IN ADDITION TO THE GRADATIONS LISTED IN THE 3RD PARAGRAPH OF ARTICLE 1003.03(G) OF THE STANDARD SPECIFICATIONS.

THE ENGINEER WILL BE THE SOLE JUDGE CONCERNING CURING TIME FOR THE VARIOUS BITUMINOUS LIFTS.

FOR STABILIZATION, ALL TYPE III BARRICADES SHALL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

SEEDING SHALL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER.

ONLY THOSE TREES DESIGNATED BY THE ENGINEER OR LISTED IN THE TREE REMOVAL SCHEDULE SHALL BE REMOVED. THE CONTRACTOR SHALL PROTECT ALL REMAINING TREES FROM DAMAGE DUE TO HIS OPERATIONS.

THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ON EXISTING PAVEMENT WHICH MAY BE SUPERELEVATED, THE NEW BITUMINOUS PAVEMENT SHALL BE BUILT WITH THE SAME SUPERELEVATION UNLESS NEW SUPERELEVATION RATES ARE GIVEN ON THE PLANS.

ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.

ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEETS OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
BITUMINOUS MAT PRIME COAT	0.08	GAL / SQ YD OR
	0.375	GAL / SQ YD
AGGREGATE PRIME COAT	0.002	TONS / SQ YD
BITUMINOUS RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT /100 FT OF APPLICATION
MIX FOR CRACKS, JTS & FLGWYS	0.0003	TONS / SQ YD
LEVEL BINDER (HAND METHOD)	0.0005	TONS / SQ YD
SUPPLEMENTAL WATERING	3	GAL / SQ YD / APPLICATION
CALCIUM CHLORIDE	2	LB / SQ YD / APPLICATION
TEMPORARY DITCH CHECKS	9	BALES OR
	5	TONS AGGREGATE

THE COST OF MAKING ANY SEWER CONNECTIONS TO AN EXISTING DRAINAGE STRUCTURE OR PIPE SHALL BE INCLUDED IN THE COST OF THE NEW SEWER.

THERE ARE NO KNOWN MEMBERS OF J.U.L.I.E. WITHIN THE LIMITS OF THE IMPROVEMENT.

THE EXISTING SHOULDERS ARE LOW. IN THE EVENT THAT CONSTRUCTION OPERATIONS RESULT IN A DROP OFF GREATER THAN 3" BETWEEN THE EDGE OF PAVEMENT OR EDGE OF SHOULDER WITHIN 3' OF THE EDGE OF PAVEMENT AND THE EARTH OR AGGREGATE SHOULDERS, THEN THE DROP OFF SHALL BE PROTECTED ACCORDING TO ARTICLE 701.04(B)(1) OF THE STANDARD SPECIFICATIONS. THIS WORK WILL BE CONSIDERED AS INCLUDED IN THE CONTRACT UNIT PRICES FOR TRAFFIC CONTROL.

COMMITMENTS:

IDNR PROJECT CONCURRENCE LETTER FROM STEVE HAMER DATED 02/22/05.

STARVED ROCK STATE PARK LAND USE PERMIT NO. 9376.

PRIOR TO COMMENCEMENT OF THE PROPOSED REPAIRS OR IMPROVEMENTS, PLEASE CONTACT SITE SUPERINTENDENT, TOM LEVY, AT PHONE NUMBER 815/667-4726 LOCATED AT UTICA, ILLINOIS.

	SUPERPAVE LEVEL BINDER	SUPERPAVE SURFACE
PG GRADE	PG64-22	PG64-22
MAX % RAP ALLOWABLE**	25%	15%
DESIGN AIR VOIDS	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION	IL 9.5	IL 12.5 OR IL 9.5
FRICTION AGGREGATE		MIXTURE C
PLANT CONTROL LIMITS	CLASS I	CLASS I
DENSITY TEST METHOD	SATISFACTION OF THE ENGINEER	CORES OR NUCLEAR

** IF RAP OPTION IS SELECTED, THE ASPHALT CEMENT GRADE MAY NEED TO BE ADJUSTED. THIS WILL BE DETERMINED BY THE ENGINEER.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DISTRICT THREE

REVIEWED BY: *Rick Powell*
DISTRICT STUDIES & PLANS ENGINEER

DATE: _____

EXAMINED BY: *Michael J. Durb...*
DISTRICT CONSTRUCTION ENGINEER

Matthew J. Durb...
DISTRICT MATERIALS ENGINEER

James A. Wheeler
DISTRICT OPERATIONS ENGINEER

GENERAL NOTES

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	Farnsworth GROUP <small>2700 McGraw Drive Sholington, Illinois 61704 309/952-6656 309/952-8771 fax</small>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 2 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

← 80% FEDERAL 20% STATE →

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY I000	CULVERT @ STA 393+00 Y007	STRUCTURE NO. 050-C804 Y007	STRUCTURE NO. 050-W004 Y007	STRUCTURE NO. 050-0239 X081-2A
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	1416	1416				
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	542	542				
20200100	EARTH EXCAVATION	CU. YD.	1242	1242				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU. YD.	88		88			
20201400	SUB-BASE GRANULAR MATERIAL, TYPE A	TON	555	555				
20400800	FURNISHED EXCAVATION	CU. YD.	642	642				
20700220	POROUS GRANULAR EMBANKMENT	CU. YD.	1525	1525				
20700400	POROUS GRANULAR EMBANKMENT (SPECIAL)	CU. YD.	279			91		188
20800150	TRENCH BACKFILL	CU. YD.	13	13				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	85	85				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	85	85				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	85	85				
25100115	MULCH, METHOD 2	ACRE	0.9	0.9				
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	6680	6680				
28000400	PERIMETER EROSION BARRIER	FOOT	1952	1952				
28000500	INLET AND PIPE PROTECTION	EACH	10	10				
28100107	STONE RIPRAP, CLASS A4	SQ. YD.	607	164	105			338
28100209	STONE RIPRAP, CLASS A5	TON	292	292				
28200200	FILTER FABRIC	SQ. YD.	696	253	105			338
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SQ. YD.	201					201
35300400	PORTLAND CEMENT CONCRETE BASE COURSE 9"	SQ. YD.	723	723				
35400400	PORTLAND CEMENT CONCRETE BASE COURSE WIDENING 9"	SQ. YD.	266	266				
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	163	163				

* SPECIALTY ITEM

← 80% FEDERAL 20% STATE →

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY I000	CULVERT @ STA 393+00 Y007	STRUCTURE NO. 050-C804 Y007	STRUCTURE NO. 050-W004 Y007	STRUCTURE NO. 050-0239 X081-2A
42001165	BRIDGE APPROACH PAVEMENT	SQ. YD.	244	244				
42001300	PROTECTIVE COAT	SQ. YD.	369	369				
42001420	BRIDGE APPROACH PAVEMENT CONNECTOR (PCC)	SQ. YD.	50	50				
44000006	BITUMINOUS SURFACE REMOVAL 1 1/2"	SQ. YD.	274	274				
44000030	BITUMINOUS SURFACE REMOVAL (VARIABLE DEPTH)	SQ. YD.	223	223				
44000035	BITUMINOUS SURFACE REMOVAL	SQ. YD.	144	144				
44000100	PAVEMENT REMOVAL	SQ. YD.	1041	1041				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	499	499				
44001980	CONCRETE BARRIER REMOVAL	FOOT	103	103				
50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1		1			
50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1			1		
50100500	REMOVAL OF EXISTING STRUCTURES NO. 3	EACH	1					1
50102400	CONCRETE REMOVAL	CU. YD.	6.2					6.2
50200100	STRUCTURE EXCAVATION	CU. YD.	2984			280	494	2210
50200400	ROCK EXCAVATION FOR STRUCTURES	CU. YD.	128		1	118		9
50300225	CONCRETE STRUCTURES	CU. YD.	468.5		35.0	188.8	194.3	50.4
50300255	CONCRETE SUPERSTRUCTURE	CU. YD.	122.9					122.9
50300260	BRIDGE DECK GROOVING	SQ. YD.	505	228				277
50300300	PROTECTIVE COAT	SQ. YD.	626				270	356
50300510	RUSTICATION FINISH	SQ. FT.	5628				4587	1041
50400905	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE I-BEAMS, 42 IN.	FOOT	434					434
50500505	STUD SHEAR CONNECTORS	EACH	908				908	
50700209	UNTREATED TIMBER LAGGING	SQ. FT.	3971					3971

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	 <p>2700 Madison Drive Bloomington, Illinois 61704 309/863-6456, 309/863-1671 FAX</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 3 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	4
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOI	FED. AID PROJECT		

← 80% FEDERAL 20% STATE →

← 80% FEDERAL 20% STATE →

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 1000	CULVERT @ STA 393+00 Y007	STRUCTURE NO. 050-C804 Y007	STRUCTURE NO. 050-W004 Y007	STRUCTURE NO. 050-0239 X081-2A
50700215	FURNISHING SOLDIER PILES (W SECTION)	FOOT	1168				1168	
50800105	REINFORCEMENT BARS	POUND	15,470		3130	12,340		
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	51,550		700	1800	21,220	27,830
51201610	FURNISHING STEEL PILES HP12X63	FOOT	150					150
51202700	DRIVING STEEL PILES	FOOT	150					150
51203610	TEST PILE STEEL HP12X63	EACH	2					2
51500100	NAME PLATES	EACH	3			1	1	1
54011008	PRECAST CONCRETE BOX CULVERT 10'X8'	FOOT	70		70			
54213447	END SECTIONS 12"	EACH	3	3				
550A0050	STORM SEWERS, CLASS A, TYPE 1 12"	FOOT	42	42				
550A0070	STORM SEWERS, CLASS A, TYPE 1 15"	FOOT	26	26				
55100700	STORM SEWER REMOVAL 15"	FOOT	70	70				
59100100	GEOCOMPOSITE WALL DRAIN	SQ. YD.	416			68	259	89
60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	3	3				
60100945	PIPE DRAINS 12"	FOOT	63	63				
60100955	PIPE DRAINS 15"	FOOT	32	32				
60107700	PIPE UNDERDRAINS 6"	FOOT	1040	1040				
60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	369				265	104
60218400	MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID	EACH	1	1				
60235700	INLETS, TYPE A, TYPE 3 FRAME AND GRATE	EACH	1	1				
60240220	INLETS, TYPE B, TYPE 3 FRAME AND GRATE	EACH	1	1				
60500060	REMOVING INLETS	EACH	3	3				

* SPECIALTY ITEM

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 1000	CULVERT @ STA 393+00 Y007	STRUCTURE NO. 050-C804 Y007	STRUCTURE NO. 050-W004 Y007	STRUCTURE NO. 050-0239 X081-2A
60605000	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24	FOOT	454	454				
60900140	TYPE B INLET BOX, STANDARD 609006	EACH	1	1				
60900150	TYPE B INLET BOX, STANDARD 609006 (SPECIAL)	EACH	1	1				
60900515	CONCRETE THRUST BLOCKS	EACH	3	3				
63000005	STEEL PLATE BEAM GUARD RAIL, TYPE B	FOOT	1200	1200				
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4				
63100167	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT)	EACH	3	3				
63200305	STEEL PLATE BEAM GUARD RAIL REMOVAL	FOOT	1523	1523				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	22	22				
67100100	MOBILIZATION	L SUM	1	1				
70103700	TRAFFIC CONTROL COMPLETE	L SUM	1	1				
72000100	SIGN PANEL - TYPE 1	SQ. FT.	93	93				
78001110	PAINT PAVEMENT MARKING-LINE 4"	FOOT	3076	3076				
78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	24	24				
78200400	GUARDRAIL REFLECTORS	EACH	48	48				
78200530	BARRIER WALL MARKERS, TYPE C	EACH	6	6				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	24	24				
Z0002600	BAR SPLICERS	EACH	72					72
Z0005215	BITUMINOUS STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ. YD.	345	345				
Z0017900	DRAINAGE SCUPPERS, DS-12	EACH	2					2
Z0020800	EROSION CONTROL CURB	FOOT	131	131				
Z0040530	PIPE UNDERDRAIN REMOVAL	FOOT	591	591				

* SPECIALTY ITEM

DESIGNED BY MSW	 Farnsworth GROUP 2709 McGraw Drive Bloomington, Illinois 61704 308/832-0436, 308/889-1871 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 4 OF 106

<p>SUMMARY OF QUANTITIES</p> <p>IL ROUTE 71 OVER TRIBUTARY TO ILLINOIS RIVER F.A.P. ROUTE 627 - SEC. (I-1 BR & I LA SALLE COUNTY</p>
--

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	5
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

← 80% FEDERAL 20% STATE →

CODE NUMBER	ITEM	UNIT	TOTAL	ROADWAY 1000	CULVERT @ STA 393+00 Y007	STRUCTURE NO. 050-C804 Y007	STRUCTURE NO. 050-W004 Y007	STRUCTURE NO. 050-0239 X081-2A
A2005616	TREE, OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
A2006416	TREE, QUERCUS ALBA (WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
A2006516	TREE, QUERCUS BICOLOR (SWAMP WHITE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
A2006616	TREE, QUERCUS IMBRICARIA (SHINGLE OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
A2006716	TREE, QUERCUS MACROCARPA (BUR OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
A2006816	TREE, QUERCUS MUEHLENBERGII (CHINKAPIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
A2007150	TREE, QUERCUS VELUTINA (BLACK OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4	4				
A2007816	TREE, TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD), 2" CALIPER, BALLED AND BURLAPPED	EACH	5	5				
K1005421	SEEDING (SPECIAL)	ACRE	0.9	0.9				
X0325597	THREE SIDED PRECAST CONCRETE STRUCTURE, 12'X7'	FOOT	76			76		
X0320139	TEMPORARY CONSTRUCTION FENCE	FOOT	1631	1631				
X0321473	PIPE ELBOW, 15"	EACH	2	2				
X0321475	PIPE ELBOW, 12"	EACH	4	4				
X0323988	TEMPORARY SOIL RETENTION SYSTEM	SQ. FT.	1023			803	220	
X0324455	DRILLING AND SETTING SOLDIER PILES (IN SOIL)	CU. FT.	4367				4367	
X0324456	DRILLING AND SETTING SOLDIER PILES (IN ROCK)	CU. FT.	2995				2995	
X0325109	POROUS GRANULAR MATERIAL	CU. YD.	88		88			
X2510630	HEAVY DUTY EROSION CONTROL BLANKET	SQ. YD.	4387	4387				
X4066414	BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "C", N50	TON	169	169				
X4066765	LEVELING BINDER COURSE (MACHINE METHOD), SUPERPAVE N50	TON	304	304				

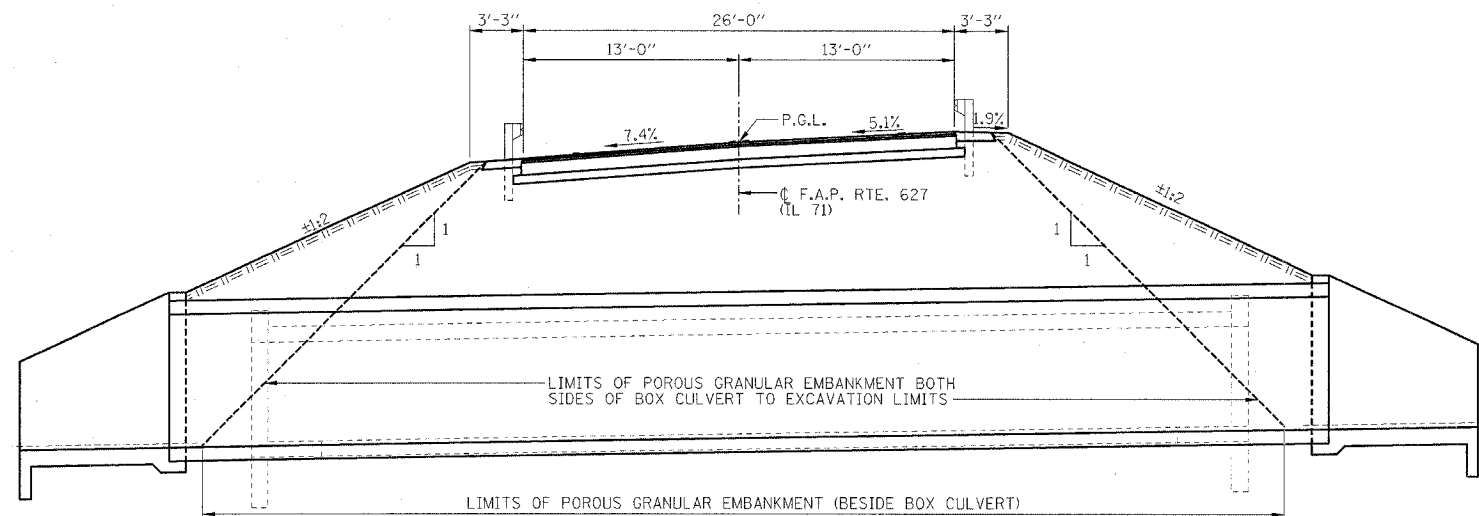
* SPECIALTY ITEM

SUMMARY OF QUANTITIES

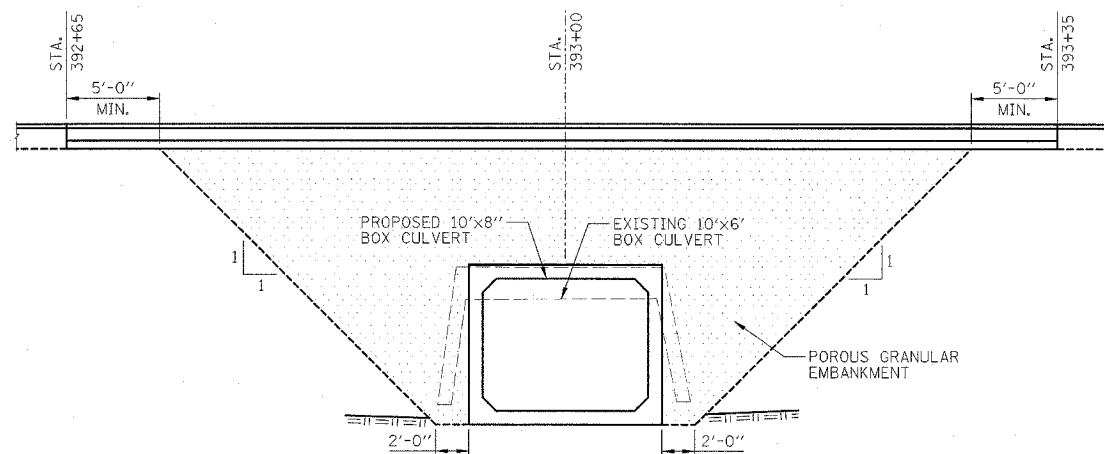
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	 3709 McGraw Drive Bloomington, Illinois 61704 308/MS-8436, 308/895-1871 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 5 OF 106

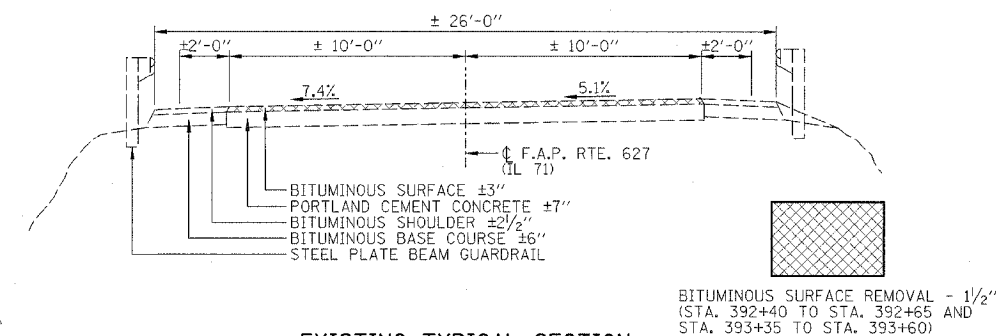
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	6
STA. 392+40 TO STA. 393+65				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



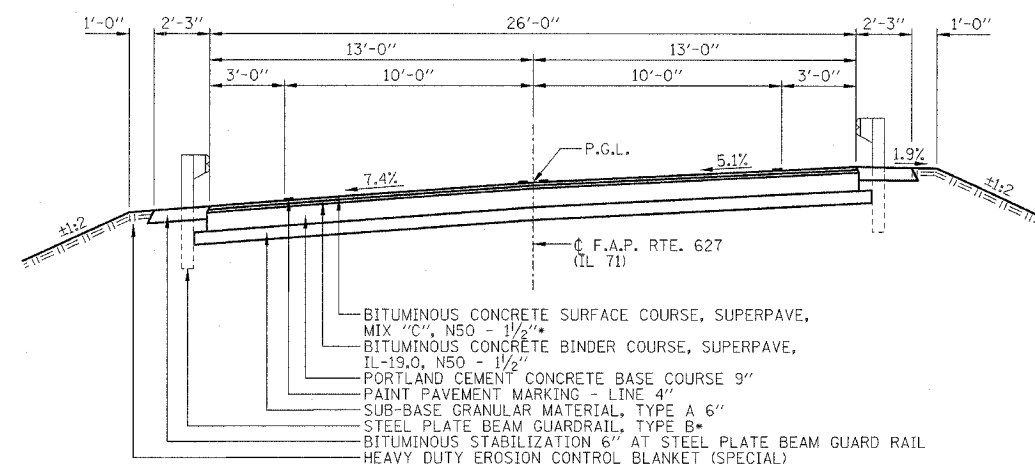
LONGITUDINAL SECTION THRU
PRECAST BOX CULVERT
STA. 393+00



SECTION THRU PRECAST BOX
CULVERT @ TRANSIT LINE



EXISTING TYPICAL SECTION



PROPOSED TYPICAL SECTION
STA. 392+65 TO STA. 393+35
*STA. 392+40 TO STA. 393+60

NOTES:

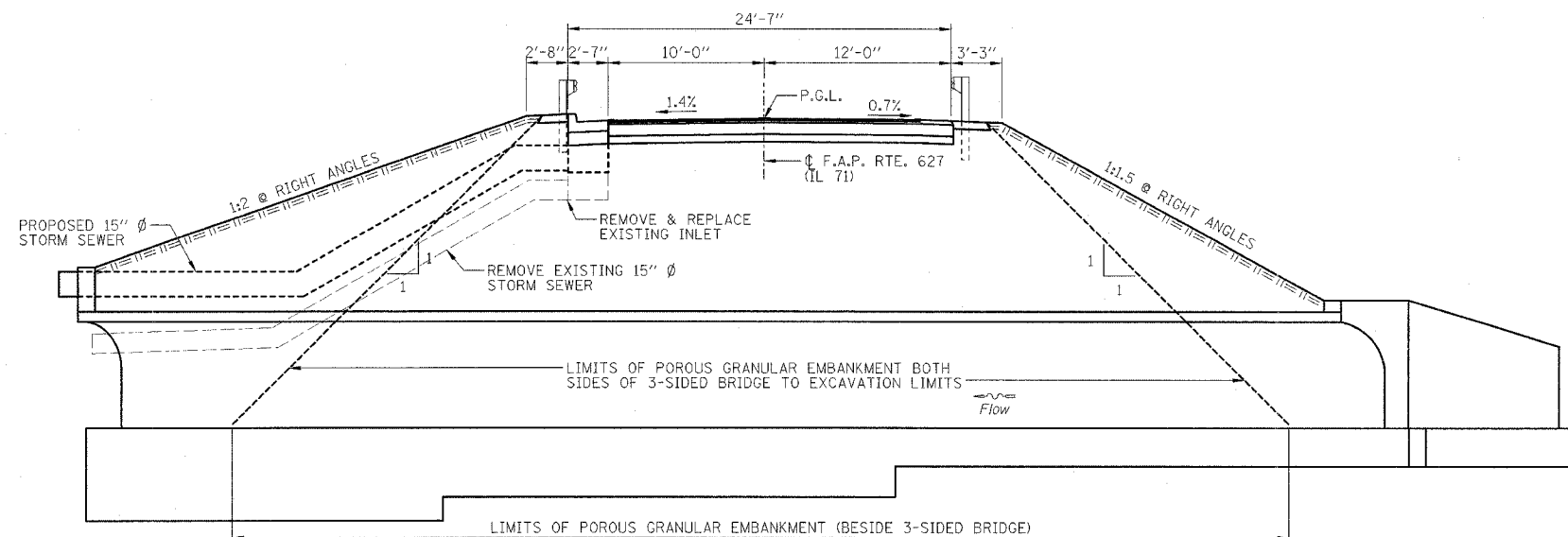
- 1.) ALL DIMENSIONS AND SLOPES AT RIGHT ANGLES TO ROADWAY CENTERLINE.
- 2.) FOR LIMITS OF ITEMS TO BE REMOVED SEE SCHEDULES OF QUANTITIES, SHEETS 9-12.

TYPICAL SECTIONS

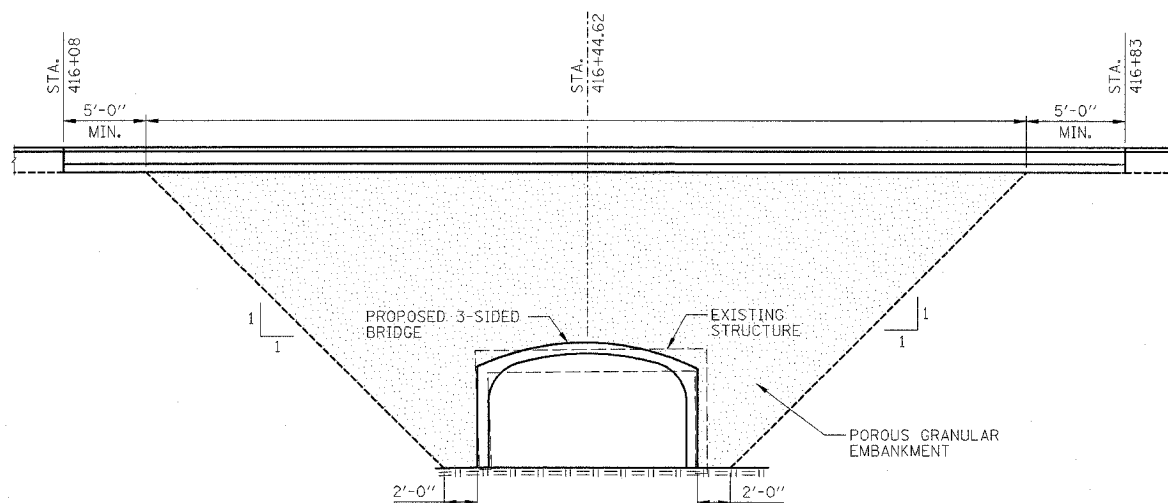
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
CULVERT @ STATION 393+00.00

DESIGNED BY MSW	<p>2700 McDrew Drive Bloomington, Illinois 61704 309/888-9458, 309/888-9871 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 6 OF 106

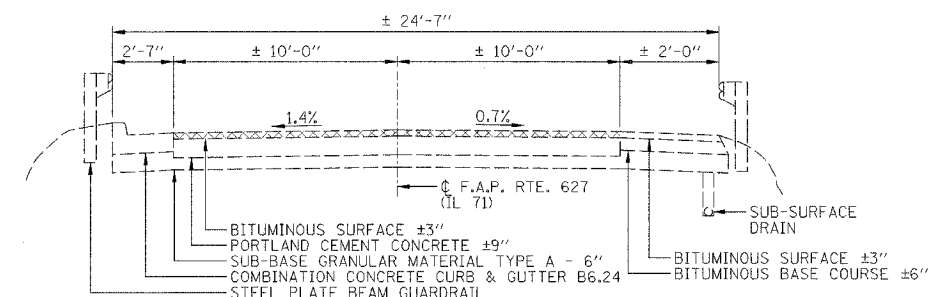
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	7
STA. 415+83 TO STA. 417+08				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



**LONGITUDINAL SECTION THRU
3-SIDED BRIDGE
STA. 416+44.62**

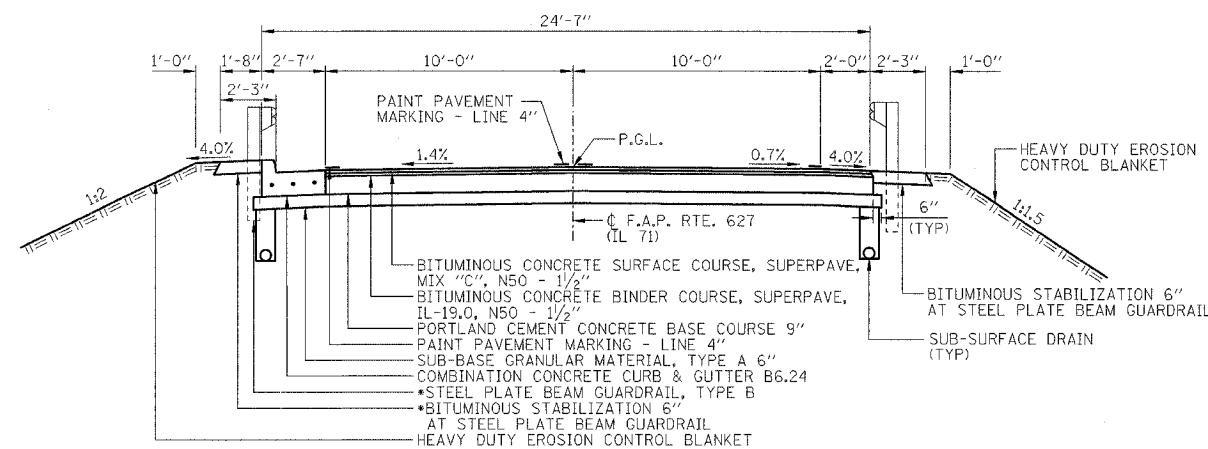


SECTION THRU 3-SIDED BRIDGE @ TRANSIT LINE



EXISTING TYPICAL SECTION

BITUMINOUS SURFACE REMOVAL - 1/2"
(STA. 415+83 TO STA. 416+08 AND
STA. 416+83 TO STA. 417+08)



**PROPOSED TYPICAL SECTION
STA. 416+08 TO STA. 416+83**

*STA 415+83 TO STA 417+08

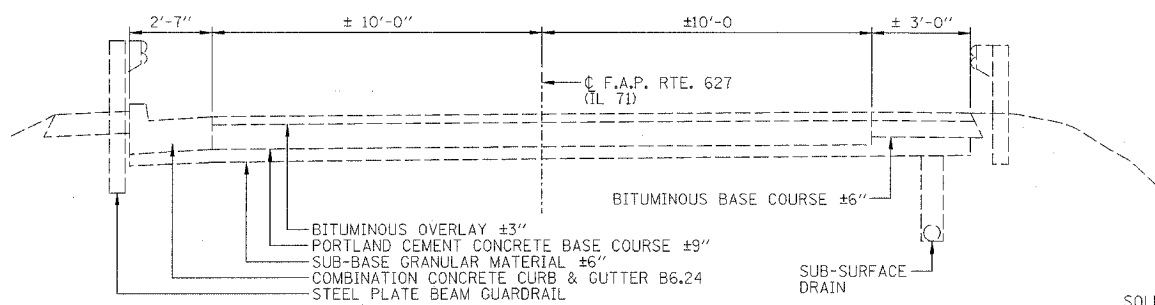
NOTES:

- 1.) ALL DIMENSIONS AND SLOPES AT RIGHT ANGLES TO ROADWAY CENTERLINE.
- 2.) FOR LIMITS OF ITEMS TO BE REMOVED SEE SCHEDULES OF QUANTITIES, SHEETS 9-12.

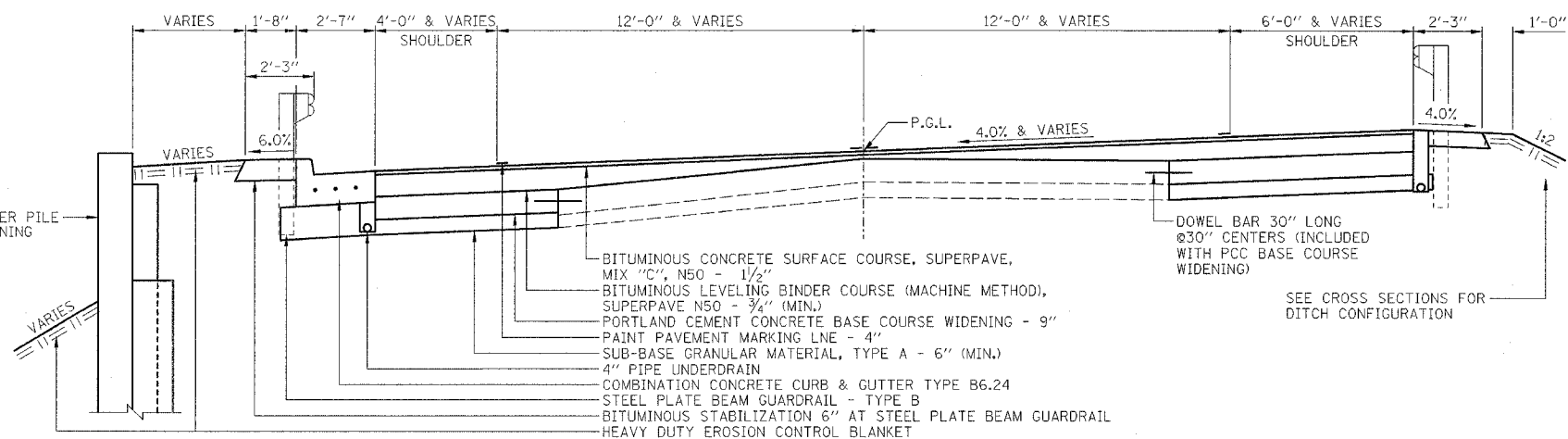
**TYPICAL SECTIONS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804**

DESIGNED BY MSW	<p>2700 Medway Drive Bloomington, Illinois 61704 908/898-8486 909/898-1671 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 7 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	8
STA. 462+24.35 TO STA. 467+70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



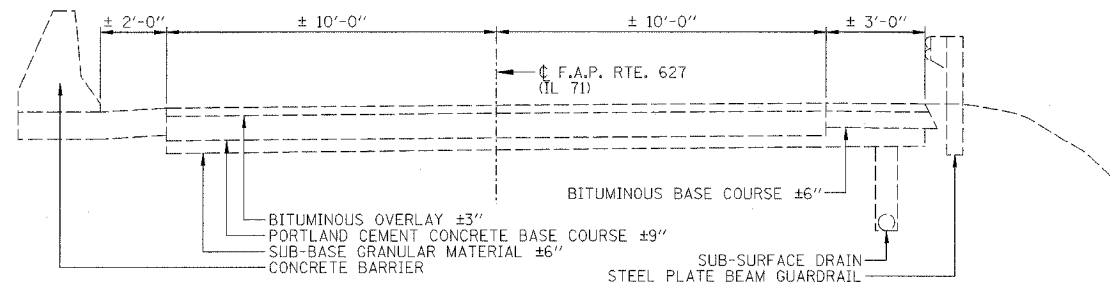
EXISTING TYPICAL SECTION
STA. 462+46.00 TO STA. 464+83.00



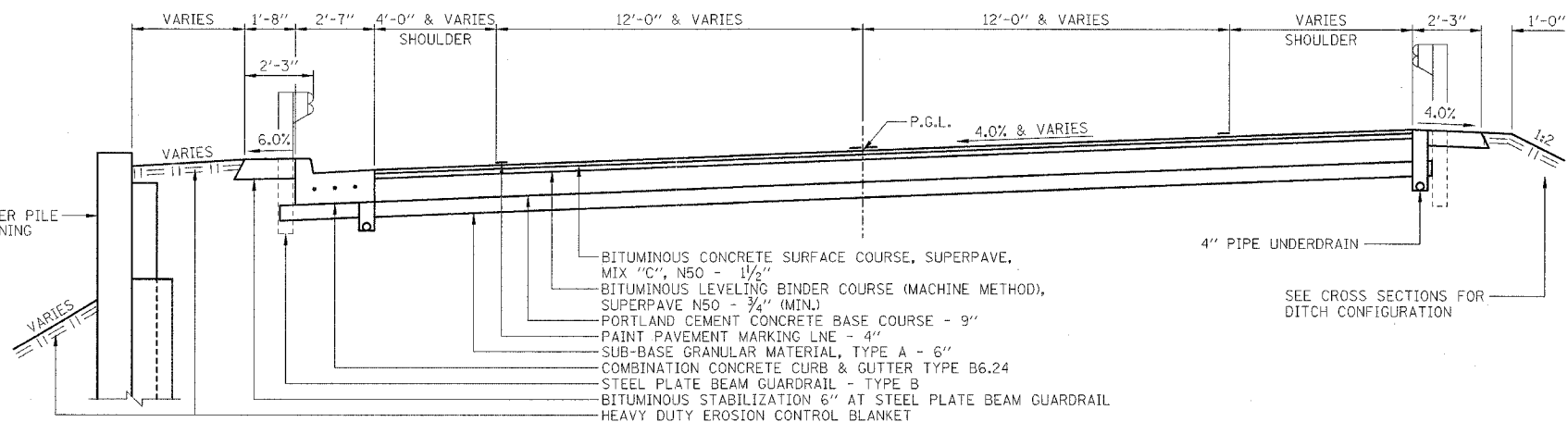
PROPOSED TYPICAL SECTION
STA. 462+46.00 TO STA. 463+00.00,
STA. 463+50.00 TO STA. 464+68.80,
STA. 466+01.96 TO STA. 467+00.00,
STA. 467+55.00 TO STA. 467+70.00

TRANSITION LOCATIONS: STA. 462+46.00 TO STA. 463+64.30
 STA. 466+01.96 TO STA. 467+70.00

NOTES: 1.) BRIDGE, BRIDGE APPROACH PAVEMENT AND BRIDGE APPROACH PAVEMENT CONNECTOR FROM STA. 464+68.80 TO STA. 466+01.96.
 2.) SOLDIER PILE RETAINING WALL FROM STA. 462+24.35 TO STA. 464+94.66.



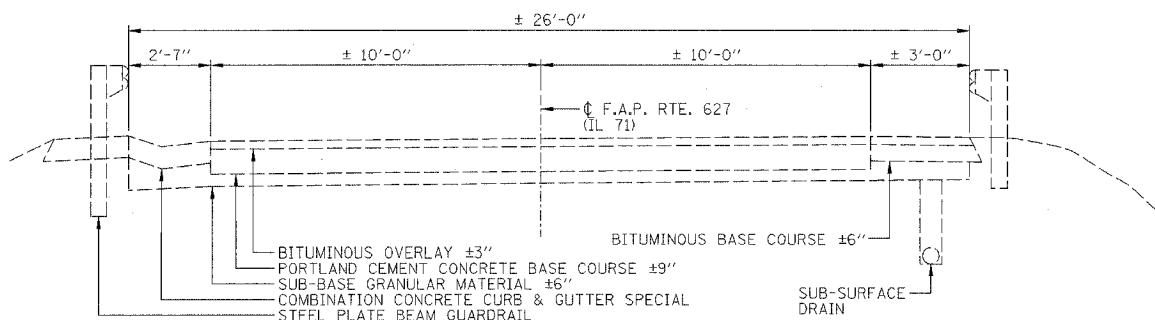
EXISTING TYPICAL SECTION
STA. 464+83.00 TO STA. 465+72.00



PROPOSED TYPICAL SECTION
STA. 463+00.00 TO STA. 463+50.00,
STA. 467+00.00 TO STA. 467+55.00

TRANSITION LOCATIONS: STA. 462+46.00 TO STA. 463+64.30
 STA. 466+01.96 TO STA. 467+70.00

NOTES: 1.) BRIDGE, BRIDGE APPROACH PAVEMENT AND BRIDGE APPROACH PAVEMENT CONNECTOR FROM STA. 464+68.80 TO STA. 466+01.96.
 2.) SOLDIER PILE RETAINING WALL FROM STA. 462+24.35 TO STA. 464+94.66.



EXISTING TYPICAL SECTION
STA. 465+72.00 TO STA. 467+62.00

TYPICAL SECTIONS
 IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+27.40
 STRUCTURE NO. 050-0239/050-W004

NOTE:
 1.) ALL DIMENSIONS AND SLOPES AT RIGHT ANGLES TO ROADWAY CENTERLINE.
 2.) FOR LIMITS OF ITEMS TO BE REMOVED SEE SCHEDULES OF QUANTITIES SHEETS 9-12.

DESIGNED BY MSW	 2700 Midway Drive Bloomington, Illinois 61704 309/883-6436 309/883-6711 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 8 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	9
STA.		TO STA.		
FEB. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

TREE REMOVAL (6 TO 15 UNITS DIAMETER)														
CULVERT @ STA. 393+00			STRUCTURE NO. 050-C804			STRUCTURE NO. 050-0239								
STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA
392+40	26' RT	10	416+05	50' LT	6	462+02	19' LT	8	464+76	38' RT	14	466+00	21' RT	11
392+47	22' RT	6	416+24	26' RT	6	462+06	25' LT	10	464+77	38' RT	14	466+01	35' RT	9
392+60	23' RT	12	416+40	24' LT	8	462+14	20' LT	8	464+78	25' LT	6	466+02	52' LT	6
392+70	33' LT	10	416+53	30' RT	6	462+23	36' LT	8	464+82	20' RT	8	466+12	22' RT	11
392+84	20' RT	8	416+55	27' LT	11	462+30	33' LT	8	464+82	54' RT	10	466+13	52' RT	10
392+84	52' RT	7	416+56	23' LT	6	462+37	26' LT	13	464+83	28' LT	6	466+16	25' LT	10
392+85	25' LT	14	416+57	23' LT	12	462+41	27' LT	6	464+87	23' RT	10	466+17	45' LT	7
392+85	23' RT	14	416+66	34' LT	10	462+43	23' LT	9	464+92	27' RT	6	466+18	31' RT	6
392+87	38' LT	8	416+69	22' RT	12	462+62	24' LT	10	464+94	22' RT	7	466+35	24' LT	8
392+89	47' LT	9	416+76	37' LT	6	462+79	20' LT	6	465+04	26' RT	13	466+38	40' RT	9
392+97	26' RT	11	416+79	30' LT	8	462+87	32' LT	15	465+07	22' RT	7	466+41	27' RT	8
393+05	20' RT	10	416+83	40' LT	7	463+13	24' LT	8	465+09	34' RT	12	466+50	24' LT	7
393+10	30' RT	8	416+85	44' LT	7	463+23	32' LT	10	465+19	29' RT	6	466+52	35' LT	14
393+10	22' RT	6	416+91	20' RT	14	463+27	29' LT	8	465+22	31' RT	10	466+53	37' RT	7
393+17	51' RT	6	416+92	34' LT	10	463+30	31' LT	11	465+40	23' RT	7	466+56	25' RT	9
393+24	34' RT	8	416+96	37' LT	7	463+49	29' LT	10	465+40	30' RT	11	466+57	25' RT	6
393+31	29' RT	6	417+00	32' LT	9	463+64	32' LT	12	465+43	18' RT	7	466+59	25' LT	10
393+38	52' RT	7	417+01	29' RT	7	463+82	33' LT	15	465+46	35' RT	7	466+61	37' LT	6
393+39	42' LT	12	417+18	34' RT	10	463+95	35' RT	10	465+49	41' RT	7	466+65	21' RT	8
393+40	38' LT	14	417+19	18' RT	12	464+00	25' LT	11	465+55	21' RT	7	466+68	24' LT	9
			417+38	30' RT	6	464+04	29' RT	10	465+59	27' LT	8	466+72	24' RT	12
			417+38	36' RT	8	464+29	22' LT	8	465+59	21' RT	12	466+81	28' RT	8
			417+39	34' RT	7	464+29	23' LT	8	465+62	47' RT	10	466+90	20' LT	8
			417+40	32' RT	12	464+30	27' LT	6	465+64	25' RT	11	466+97	23' RT	12
						464+36	18' RT	13	465+66	52' RT	11	467+02	22' LT	6
						464+37	28' LT	6	465+69	29' RT	15	467+11	22' LT	7
						464+38	37' RT	13	465+80	20' RT	14	467+11	23' LT	6
						464+43	21' LT	7	465+81	18' LT	7	467+13	22' LT	6
						464+46	30' RT	10	465+81	23' RT	9	467+19	28' RT	9
						464+49	27' RT	10	465+85	49' RT	12	467+21	24' RT	12
						464+66	46' RT	7	465+92	21' RT	12	467+38	34' RT	13
						464+72	29' LT	9	465+98	20' RT	12	467+41	35' RT	7
						464+72	36' RT	6						
TOTAL	186			207			309			308				277
STRUCTURE NO. 050-0239 TOTAL=894														
TOTAL TREE REMOVAL (6 TO 15 UNITS DIAMETER)=1287														
10% GROWTH BASED ON SURVEY IN 2001 TOTAL=1416														

TREE REMOVAL (OVER 15 UNITS DIAMETER)														
CULVERT @ STA. 393+00			STRUCTURE NO. 050-C804			STRUCTURE NO. 050-0239								
STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA	STATION	OFFSET	DIA
392+74	66' RT	30	416+00	21' RT	19	462+78	33' LT	16						
392+89	53' LT	23	416+05	43' LT	16	463+24	22' LT	16						
393+54	37' RT	19	416+32	28' RT	27	463+86	24' RT	19						
			417+32	42' RT	17	464+51	29' RT	22						
						464+64	44' RT	16						
						464+73	18' LT	20						
						464+75	18' LT	18						
						465+05	28' RT	29						
						465+57	37' LT	24						
						465+71	35' LT	16						
						465+98	19' LT	19						
						466+02	18' LT	17						
						466+06	36' LT	20						
						466+16	51' RT	16						
						466+18	48' LT	19						
						466+21	45' RT	17						
						466+51	39' LT	17						
						466+70	21' RT	21						
TOTAL		72			79									342
TOTAL TREE REMOVAL (OVER 15 UNITS DIAMETER)=493														
10% GROWTH RATE BASED ON SURVEY IN 2001 TOTAL=542														

SEEDING							
LOCATION	SEEDING (SPECIAL)	MULCH METHOD 2	TEMPORARY EROSION CONTROL	FERTILIZER NITROGEN	FERTILIZER PHOSPHORUS	FERTILIZER POTASSIUM	HEAVY DUTY EROSION CONTROL BLANKET
	ACRE	ACRE	POUND	POUND	POUND	POUND	SQ. YD.
CULVERT @ STA. 393+00							
STA. 392+40 LT TO STA. 393+65 LT	0.12	0.12	890	11	11	11	583
STA. 392+40 RT TO STA. 393+65 RT	0.13	0.13	965	12	12	12	648
STRUCTURE NO. 050-C804							
STA. 415+83 LT TO STA. 417+08 LT	0.09	0.09	670	9	9	9	444
STA. 415+83 RT TO STA. 417+47 RT	0.08	0.08	595	8	8	8	395
STRUCTURE NO. 050-0239							
STA. 461+96 LT TO STA. 464+95 LT	0.11	0.11	815	10	10	10	549
STA. 462+45 RT TO STA. 465+00 RT	0.09	0.09	670	9	9	9	455
STA. 465+40 LT TO STA. 467+70 LT	0.12	0.12	890	11	11	11	562
STA. 465+40 RT TO STA. 467+70 RT	0.16	0.16	1185	15	15	15	751
TOTAL	0.90	0.90	6680	85	85	85	4387

EARTH WORK TABLE				
LOCATION	EARTH EXCAVATION (CU. YD.)	TOTAL EXCAV. ADJUSTED FOR 25% SHRINKAGE (CU. YD.)	EMBANKMENT (CU. YD.)	BALANCE WASTE (+) SHORTAGE (-) (CU. YD.)
CULVERT @ STA 393+00	110	83	466	-383
STRUCTURE NO. 050-C804	50	38	258	-220
STRUCTURE NO. 050-0239	1082	812	851	-39
EARTH EXCAVATION = 1242 CU. YD. FURNISHED EXCAVATION = 642 BASED ON CROSS SECTIONS FROM 2001. QUANTITIES MAY CHANGE BASED ON CURRENT CONDITIONS.				

TRENCH BACKFILL	
LOCATION	CU. YD.
STRUCTURE NO. 050-C804	
STA. 416+26 LT TO STA. 416+52 LT	4
STRUCTURE NO. 050-0239	
STA. 464+81	9
TOTAL	13

POROUS GRANULAR EMBANKMENT	
LOCATION	CU. YD.
CULVERT @ STA. 393+00	
STA. 392+70 TO STA. 393+19	580
STRUCTURE NO. 050-C804	
STA. 416+13 TO STA. 416+77	945
TOTAL	1525

SCHEDULE OF QUANTITIES	
IL ROUTE 71 OVER TRIBUTARY TO ILLINOIS RIVER F.A.P. ROUTE 627 - SEC. (I-1) BR & I LA SALLE COUNTY	

DESIGNED BY MSW	 <p>2706 McGraw Drive Bloomington, Illinois 61704 309/885-8438, 309/883-1571 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 9 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

STORM SEWERS									
LOCATION	REMOVAL 15"	CLASS A, TY 1, 12"	CLASS A, TY 1, 15"	PIPE DRAIN 12"	PIPE DRAIN 15"	END SECTIONS 12"	PIPE ELBOW 12"	PIPE ELBOW 15"	MH. TY A, 4' DIA TY 1 FRAME, CLOSED LID
	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH
STRUCTURE NO. 050-C804									
STA. 416+26 LT								1	
STA. 416+26 RT								1	
STA. 416+26 LT TO STA. 416+52 LT			26						
STA 416+26 12.58' LT TO STA 416+26 41' LT					32				
STA. 416+28 LT	35								
STA. 416+62 LT	35								
STRUCTURE NO. 050-0239									
STA. 464+61 RT				20		1			
STA. 464+81 LT TO RT		42							
STA. 464+81 RT				16		1	2		1
STA. 465+85 LT							2		
STA 465+89 LT				27		1			
TOTAL	70	42	26	63	32	3	4	2	1

INLETS					
LOCATION	REMOVAL	INLETS TY. A TY. 3 FR & GR	INLETS TY. B TY. 3 FR & GR	TY. B INLET BOX STANDARD 609006	TY. B INLET BOX STANDARD (SPECIAL) 609006
	EACH	EACH	EACH	EACH	EACH
STRUCTURE NO. 050-C804					
STA. 416+52.55 LT		1			
STA. 416+26 LT			1		
STA. 416+28 LT	1				
STA. 416+69 LT	1				
STRUCTURE NO. 050-0239					
STA. 464+81 LT					1
STA. 465+27 LT	1				
STA. 465+89 LT				1	
TOTAL	3	1	1	1	1


RIPRAP			
LOCATION	CLASS A5	CLASS A4	FILTER FABRIC
	TON	SQ. YD.	SQ. YD.
CULVERT @ STA. 437+31			
STA. 437+31 LT (DOWNSTREAM)	261		64
STA. 437+31 RT (UPSTREAM)	31		25
STRUCTURE NO. 050-0239			
STA. 463+00 TO STA. 464+81 RT		108	108
STA. 464+70 RT		3	3
STA. 464+81 RT		45	45
STA. 465+89 LT		8	8
TOTAL	292	164	253

BRIDGE APPROACH PAVEMENT				
LOCATION	BRIDGE APP. PAVEMENT	BRIDGE APP. CONNECT. (PCC)	PROTECTIVE COAT	BRIDGE DECK GROOVING
	SQ. YD.	SQ. YD.	SQ. YD.	SQ. YD.
STRUCTURE NO. 050-0239				
STA. 464+62.82 TO STA. 464+68.80		25		
STA. 464+68.80 TO STA. 464+98.80	122		125	114
STA. 465+71.96 TO STA. 466+01.96	122		125	114
STA. 466+01.96 TO STA. 466+07.96		25		
TOTAL	244	50	250	228

PAVEMENT REMOVAL	
LOCATION	SQ. YD.
CULVERT @ STA. 393+00	
STA. 392+65 TO STA. 393+35	205
STRUCTURE NO. 050-C804	
STA. 416+08 TO STA. 416+83	185
STRUCTURE NO. 050-0239	
STA. 463+00 TO STA. 463+50	133
STA. 464+65.8 TO STA. 466+05	371
STA. 467+00 TO STA. 467+55	147
TOTAL	1041

SCHEDULE OF QUANTITIES

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	 <p>2708 McDrew Drive Bloomington, Illinois 61704 309/983-8635, 309/983-1871 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 10 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	11
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

PAVING MATERIALS

LOCATION	BIT. MATLS. PRIME COAT	BIT. CONC. SURF. CSE. SUPERPAVE MIX "C" N50	LEVEL. BINDER CSE. (MACHINE METHOD), SUPERPAVE N50	SUB-BASE GRAN. MATL. TY. A.	P.C.C. BASE COURSE 9"	P.C.C. BASE COURSE WIDENING 9"	BIT. STABILIZATION 6" AT STEEL PLATE BEAM GUARDRAIL	BIT. SURF. REMOVAL 1 1/2"	BIT. SURF. REMOVAL	BIT. SURF. REMOVAL (VARIABLE DEPTH)
	GAL.	TON	TON	TON	SO. YD.	SO. YD.	SO. YD.	SO. YD.	SO. YD.	SO. YD.
CULVERT @ STA. 393+00										
STA. 392+40 TO STA. 392+65	6	6					19	75		
STA. 392+65 TO STA. 393+35	18	18	18	70	205		55			
STA. 393+35 TO STA. 393+60	6	6					19	75		
STRUCTURE NO. 050-C804										
STA. 415+83 TO STA. 416+08	5	6					12	62		
STA. 416+08 TO STA. 416+83	15	16	16	75	186		34			
STA. 416+83 TO STA. 417+08	5	6					12	62		
STRUCTURE NO. 050-0239										
STA. 462+46 TO STA. 462+61										40
STA. 462+46 RT TO STA. 464+64.71 RT						90				
STA. 462+46 TO STA. 464+68.8	63	45	130	222						
STA. 462+46 LT TO STA. 464+97 LT							45			
STA. 462+46 RT TO STA. 465+01 RT							67			
STA. 462+61 TO STA. 463+00									104	
STA. 462+62 LT TO STA. 464+60.70 LT						83				
STA. 463+00 TO STA. 463+50					172					
STA. 463+50 TO STA. 463+90										103
STA. 465+71 RT TO STA. 467+70 RT							51			
STA. 465+74 LT TO STA. 467+70 LT							31			
STA. 465+98.50 RT TO STA. 467+70 RT						46				
STA. 466+01.96 TO STA. 467+70	45	66	140	188						
STA. 466+05 LT TO STA. 467+00 LT						47				
STA. 466+70 TO STA. 467+00										80
STA. 467+00 TO STA. 467+55					160					
STA. 467+55 TO STA. 467+70									40	
TOTAL	163	169	304	555	723	266	345	274	144	223

PIPE UNDERDRAINS

LOCATION	REMOVAL	PIPE UNDERDRAINS 6"
	FOOT	FOOT
STRUCTURE NO. 050-C804		
STA. 416+08 RT to STA. 416+83 RT	75	75
STA. 416+08 LT to STA. 416+83 LT		75
STRUCTURE NO. 050-0239		
STA. 462+46 RT to STA. 467+62 RT	516	
STA. 462+46 RT to STA. 464+98 RT		510
STA. 465+72 LT & RT to STA. 467+62 LT & RT		380
TOTAL	591	1040

CURB AND GUTTER

LOCATION	REMOVAL	TYPE B6.24	EROSTION CONTROL CURB	PROTECTIVE COAT
	FOOT	FOOT	FOOT	SO. YD.
STRUCTURE NO. 050-C804				
STA. 416+08 LT TO STA. 416+83 LT	75	75		25
CULVERT @ STA. 437+31				
STA. 436+56 LT TO STA. 437+87 LT			131	
STRUCTURE NO. 050-0239				
STA. 462+46 LT TO STA. 464+80 LT	234			
STA. 465+72 LT TO STA. 467+62 LT	190			
STA. 462+46 LT TO STA. 464+68.8 LT		221		42
STA. 466+01.5 LT TO STA. 467+62 LT		158		52
TOTAL	499	454	131	119

GUARDRAIL

LOCATION	SPBGR REMOVAL	SPBGR-TY B	TBT-TY 1 SPECIAL (TANGENT)	TBT-TY 6	REFLECTORS	BARRIER WALL MARKERS, TY C
	FOOT	FOOT	EACH	EACH	EACH	EACH
CULVERT @ STA. 393+00						
STA. 392+40 LT TO STA. 393+75 LT	125	125			6	
STA. 392+40 RT TO STA. 393+75 RT	125	125			6	
STRUCTURE NO. 050-C804						
STA. 415+83 LT TO STA. 417+08 LT	125	125			6	
STA. 415+83 RT TO STA. 417+08 RT	125	125			6	
STRUCTURE NO. 050-0239						
STA. 462+21 RT TO STA. 465+01 RT					7	
STA. 462+21 RT TO STA. 462+71 RT			1			
STA. 462+21 RT TO STA. 468+11 RT	600					
STA. 462+44 LT TO STA. 465+01 LT					6	
STA. 462+44 LT TO STA. 464+80 LT	228					
STA. 462+44 LT TO STA. 464+65 LT		212.5				
STA. 462+71 RT TO STA. 464+72 RT		212.5				
STA. 464+65 LT TO STA. 464+97 LT				1		
STA. 464+72 RT TO STA. 465+01 RT				1		
STA. 464+97 LT TO STA. 465+74 LT						3
STA. 465+01 RT TO STA. 465+70 RT						3
STA. 465+70 RT TO STA. 465+93 RT				1		
STA. 465+74 LT TO STA. 466+05 LT				1		
STA. 465+70 RT TO STA. 468+11 RT					6	
STA. 465+74 RT TO STA. 467+69 LT					5	
STA. 465+99 RT TO STA. 467+62 RT		162.5				
STA. 466+05 LT TO STA. 467+19 LT		112.5				
STA. 467+19 LT TO STA. 467+69 LT			1			
STA. 467+61 RT TO STA. 468+11 RT			1			
STA. 465+72 LT TO STA. 467+69 LT	195					
TOTAL	1523	1200	3	4	48	6

CONCRETE BARRIER REMOVAL

LOCATION	REMOVAL
	FOOT
STRUCTURE NO. 050-0239	
STA. 464+70 LT TO STA. 465+73 LT	103
TOTAL	103

SCHEDULE OF QUANTITIES

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	 <p>2700 McGraw Drive Bloomington, Illinois 61704 309/893-6456, 800/833-9711 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 11 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	12
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

PAINT PAVEMENT MARKING-LINE		
LOCATION	SOLID EDGES	SOLID NO PASS
	WHITE, 4 INCH	YELLOW, 4 INCH
	FOOT	FOOT
CULVERT @ STA. 393+00		
STA. 392+40 TO STA. 393+60	240	240
STRUCTURE NO. 050-C804		
STA. 415+83 TO STA. 417+08	250	250
STRUCTURE NO. 050-0239		
STA. 462+46 TO STA. 467+70	1048	1048
TOTAL	1538	1538

RAISED REFLECTIVE PAVEMENT MARKER		
LOCATION	REMOVAL	RAISED REFLECTIVE
	EACH	PAVEMENT MARKER
	EACH	EACH
CULVERT @ STA. 393+00		
STA. 392+40 TO STA. 392+60	4	4
STRUCTURE NO. 050-C804		
STA. 415+83 TO STA. 417+08	5	5
STRUCTURE NO. 050-0239		
STA. 462+46 TO STA. 467+70	15	15
TOTAL	24	24

CONCRETE HEADWALLS FOR PIPE DRAINS	
LOCATION	EACH
STRUCTURE NO. 050-0239	
STA. 464+99 RT	1
STA. 465+72 RT	1
STA. 465+78 LT	1
TOTAL	3

CONCRETE THRUST BLOCK	
LOCATION	EACH
STRUCTURE NO. 050-C804	
STA. 416+26 LT	1
STRUCTURE NO. 050-0239	
STA. 464+81 RT	1
STA. 465+85 LT	1
TOTAL	3

EROSION CONTROL		
LOCATION	INLET AND	PERIMETER
	PIPE PROTECTION	EROSION BARRIER
	EACH	FOOT
CULVERT @ STA. 393+00		
STA. 392+25 70' LT TO STA. 392+82 70' LT		57
STA. 392+82 70' LT TO STA. 392+83 43' LT		27
STA. 392+25 70' RT TO STA. 392+86 70' RT		61
STA. 392+86 70' RT TO STA. 392+85 44' RT		26
STA. 393+15 44' RT TO STA. 393+14 70' RT		26
STA. 393+14 70' RT TO STA. 393+75 70' RT		61
STA. 393+17 43' LT TO STA. 393+18 70' LT		28
STA. 393+18 70' LT TO STA. 393+75 70' LT		57
STA. 393+00 33' LT	1	
STA. 393+00 34' RT	1	
STRUCTURE NO. 050-C804		
STA. 415+68 70' LT TO STA. 415+88 70' LT		20
STA. 415+88 70' LT TO STA. 416+05 46' LT		34
STA. 415+68 70' RT TO STA. 416+48 70' RT		80
STA. 416+48 70' RT TO STA. 416+38 40' RT		36
STA. 416+38 40' RT TO STA. 416+38 30' RT		11
STA. 416+48 38' LT TO STA. 416+47 70' LT		36
STA. 416+47 70' LT TO STA. 417+23 70' LT		75
STA. 416+70 30' RT TO STA. 416+80 38' RT		13
STA. 416+80 38' RT TO STA. 417+59 47' RT		83
STA. 416+26 39' LT	1	
STA. 416+60 33' RT	1	
STRUCTURE NO. 050-0239		
STA. 461+90 52' LT TO STA. 462+21 56' LT		32
STA. 462+21 56' LT TO STA. 463+84 41' LT		157
STA. 463+84 41' LT TO STA. 464+71 43' LT		76
STA. 464+71 43' LT TO STA. 464+95 22' LT		31
STA. 462+31 60' RT TO STA. 463+33 60' RT		102
STA. 463+33 60' RT TO STA. 465+25 60' RT		226
STA. 465+25 60' RT TO STA. 465+23 37' RT		24
STA. 465+34 20' LT TO STA. 465+28 70' LT		51
STA. 465+28 70' LT TO STA. 466+02 70' LT		59
STA. 466+02 70' LT TO STA. 467+85 70' LT		182
STA. 465+38 35' RT TO STA. 465+40 60' RT		25
STA. 465+40 60' RT TO STA. 466+02 60' RT		74
STA. 466+02 60' RT TO STA. 467+85 60' RT		182
STA. 464+61 29' RT	1	
STA. 464+81 41' RT	1	
STA. 464+99 33' RT	1	
STA. 465+72 32' RT	1	
STA. 465+79 32' LT	1	
STA. 465+89 45' LT	1	
TOTAL	10	1952

TEMPORARY CONSTRUCTION FENCE	
LOCATION	FOOT
CULVERT @ STA. 393+00	
STA. 392+32 12' RT TO STA. 392+32 35' RT	23
STA. 392+32 35' RT TO STA. 392+65 70' RT	49
STA. 392+65 70' RT TO STA. 392+86 70' RT	24
STA. 392+33 12' LT TO STA. 392+33 30' LT	19
STA. 392+33 30' LT TO STA. 392+63 70' LT	48
STA. 392+63 70' LT TO STA. 392+82 70' LT	17
STA. 393+14 70' RT TO STA. 393+33 70' RT	21
STA. 393+33 70' RT TO STA. 393+66 35' RT	50
STA. 393+66 35' RT TO STA. 393+66 12' RT	23
STA. 393+18 70' LT TO STA. 393+37 70' LT	17
STA. 393+37 70' LT TO STA. 393+67 30' LT	49
STA. 393+67 30' LT TO STA. 393+67 12' LT	18
STRUCTURE NO. 050-C804	
STA. 415+73 12' LT TO STA. 415+73 35' LT	23
STA. 415+73 35' LT TO STA. 415+96 58' LT	33
STA. 415+73 13' RT TO STA. 415+73 31' RT	18
STA. 415+73 31' RT TO STA. 416+38 40' RT	66
STA. 416+47 64' LT TO STA. 417+07 49' LT	62
STA. 417+07 49' LT TO STA. 417+18 33' LT	19
STA. 417+18 33' LT TO STA. 417+18 12' LT	21
STA. 417+43 45' RT TO STA. 417+54 35' RT	16
STA. 417+54 35' RT TO STA. 417+54 12' RT	23
STRUCTURE NO. 050-0239	
STA. 461+89 9' LT TO STA. 461+89 30' LT	21
STA. 461+89 30' LT TO STA. 462+03 44' LT	20
STA. 462+03 44' LT TO STA. 463+85 36' LT	176
STA. 463+85 36' LT TO STA. 464+78 37' LT	83
STA. 462+36 14' RT TO STA. 462+36 23' RT	9
STA. 462+36 23' RT TO STA. 462+46 34' RT	14
STA. 462+46 34' RT TO STA. 463+45 37' RT	100
STA. 463+45 37' RT TO STA. 464+64 60' RT	137
STA. 465+32 39' LT TO STA. 465+89 67' LT	55
STA. 465+89 67' LT TO STA. 466+89 42' LT	101
STA. 466+89 42' LT TO STA. 467+64 42' LT	75
STA. 467+64 42' LT TO STA. 467+80 26' LT	22
STA. 467+80 26' LT TO STA. 467+80 12' LT	14
STA. 466+42 60' RT TO STA. 466+85 46' RT	45
STA. 466+85 46' RT TO STA. 467+63 46' RT	79
STA. 467+63 46' RT TO STA. 467+80 30' RT	24
STA. 467+80 30' RT TO STA. 467+80 13' RT	17
TOTAL	1631

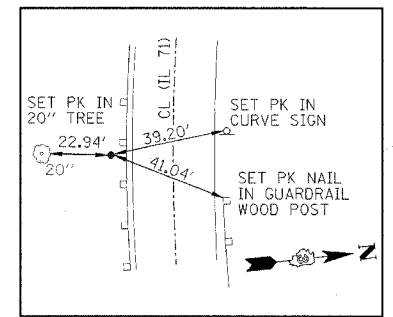
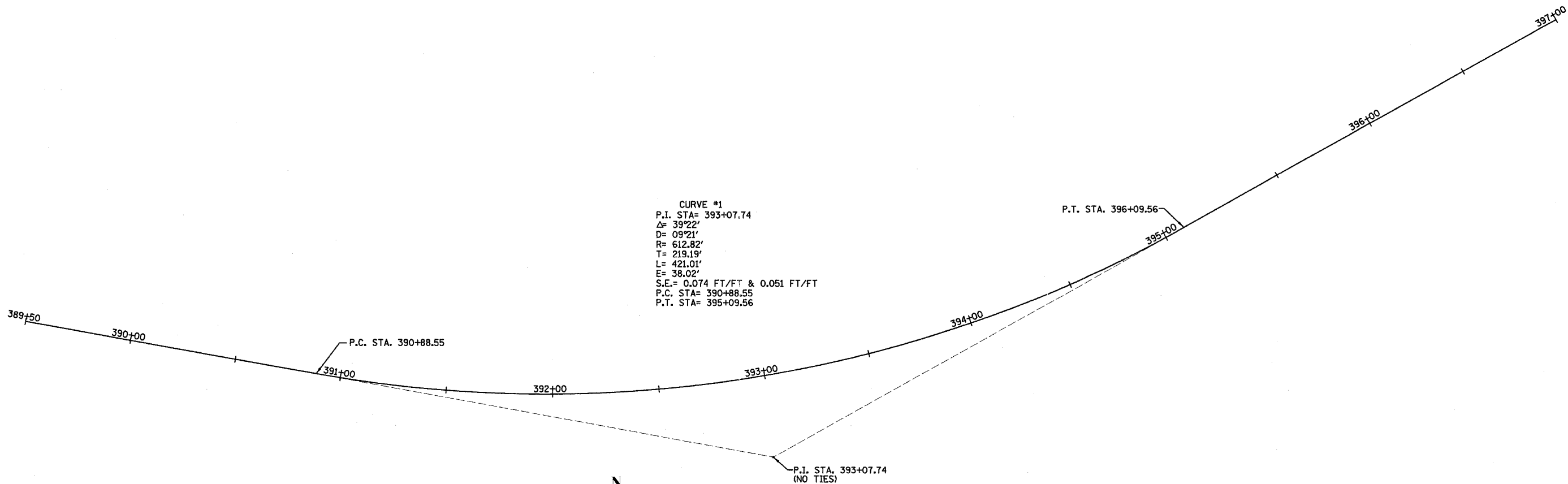
TREE SCHEDULE	
TYPE	EACH
OSTRYA VIRGINIANA (AMERICAN HOPHORNBEAM)	5
QUERCUS ALBA (WHITE OAK)	4
QUERCUS BICOLOR (SWAMP WHITE OAK)	5
QUERCUS IMBRICARIA (SHINGLE OAK)	4
QUERCUS MACROCARPA (BUR OAK)	4
QUERCUS MUEHLENBERGII (CHINKAPIN OAK)	5
QUERCUS RUBRA (RED OAK)	4
QUERCUS VELUTINA (BLACK OAK)	4
TILIA AMERICANA (AMERICAN LINDEN/BASSWOOD)	5

NOTE: THE ENGINEER WILL COORDINATE WITH THE STARVED ROCK SITE SUPERINTENDENT TO DETERMINE THE EXACT LOCATION WHERE THE TREES WILL BE PLANTED.

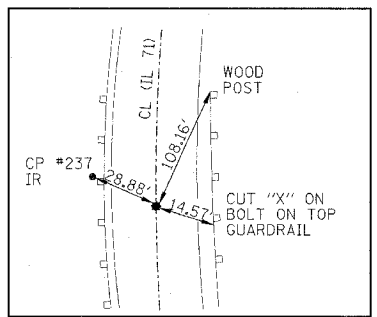
SCHEDULE OF QUANTITIES
IL ROUTE 71 OVER TRIBUTARY TO ILLINOIS RIVER F.A.P. ROUTE 627 - SEC. (I-1) BR & I LA SALLE COUNTY

DESIGNED BY MSW	 <p>2700 McGraw Drive Bloomington, Illinois 61704 309/938-6635, 309/682-2871 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 12 OF 106

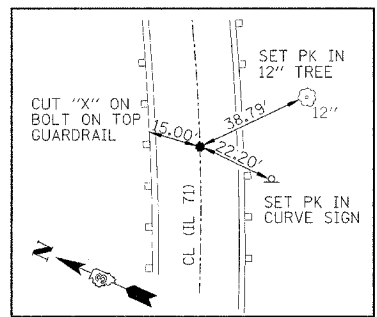
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	13
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



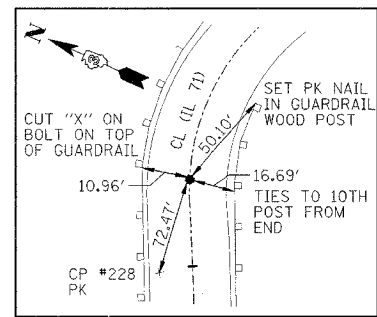
STA. 389+50.00 IR SET ON TANGENT EXTENDED



P.C. STA. 390+88.55 (CURVE #1) SPINDLE NAIL



P.T. STA. 395+09.56 (CURVE #1) SPINDLE NAIL



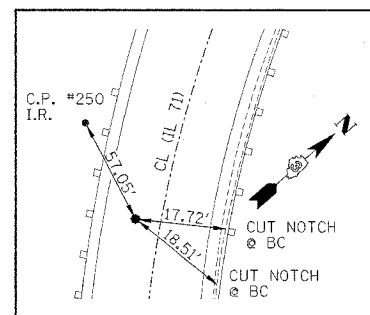
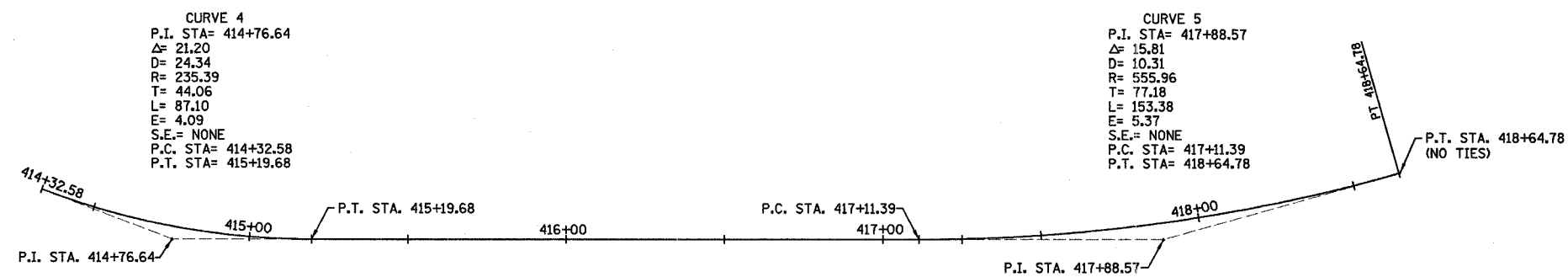
STA. 397+00.00 (CURVE #1) SPINDLE NAIL ON TANGENT

TRANSIT LINE LOCATION & TIES
 CULVERT @ STA. 393+00
 STA. 392+40 TO STA. 393+60

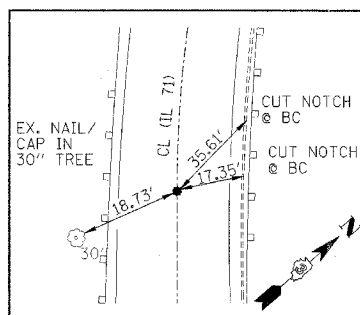
IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY

DESIGNED BY MSW	 2709 McDraw Drive Bloomington, Illinois 61704 309/888-9496, 309/888-1671 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 13 OF 106

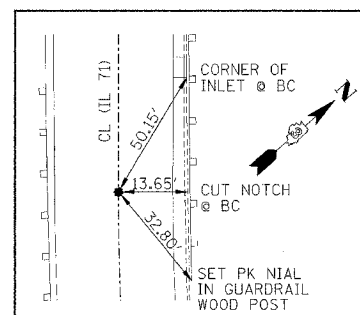
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



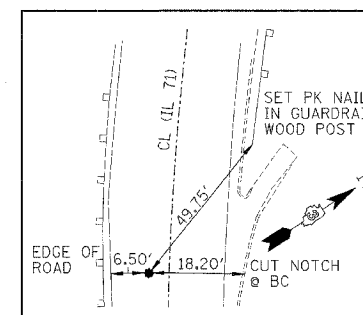
P.I. STA. 414+76.62
(CURVE #4) SPINDLE NAIL



P.T. STA. 415+19.68
(CURVE #4) SPINDLE NAIL



P.C. STA. 417+11.37
(CURVE #5) SPINDLE NAIL



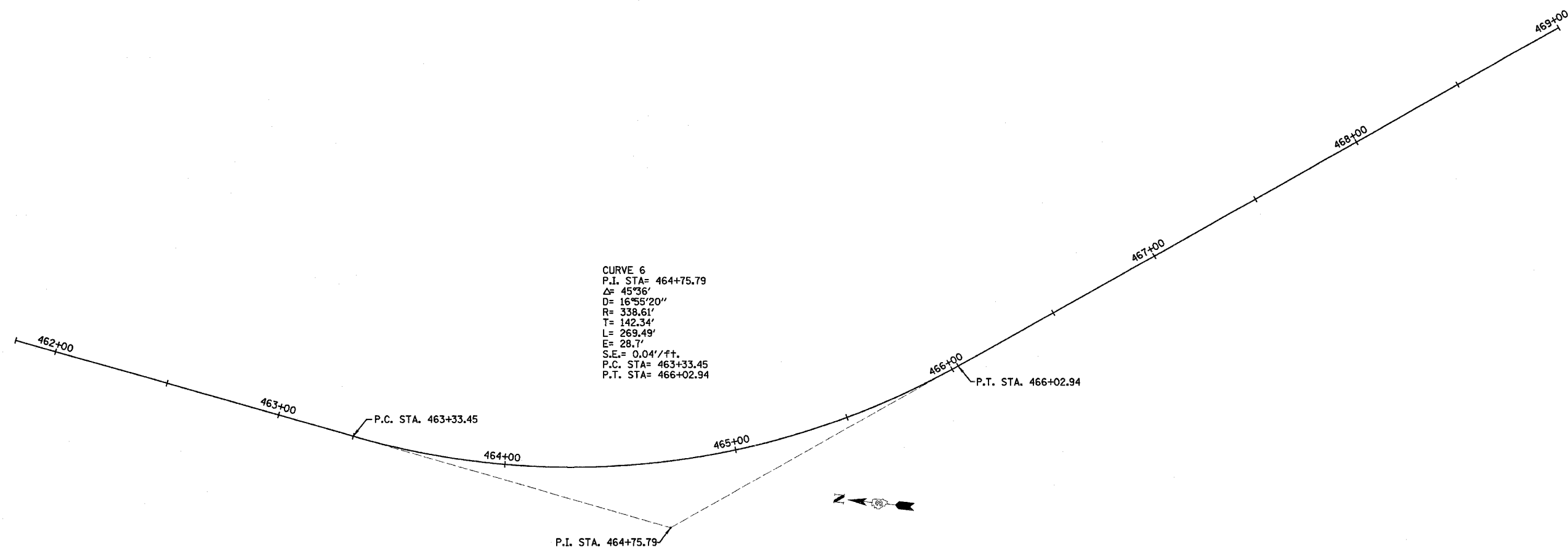
P.I. STA. 417+88.58
(CURVE #5) SPINDLE NAIL

TRANSIT LINE LOCATION & TIES
 STRUCTURE 050-C804
 STA. 415+83 TO STA. 417+08

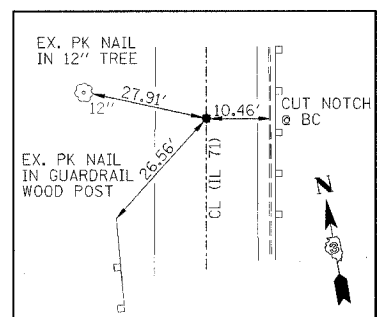
IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY

DESIGNED BY MSW	 2700 McGraw Drive Bloomington, Illinois 61704 309/893-8435, 309/893-1671 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 14 of 106

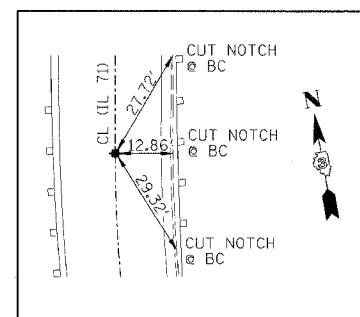
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	15
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



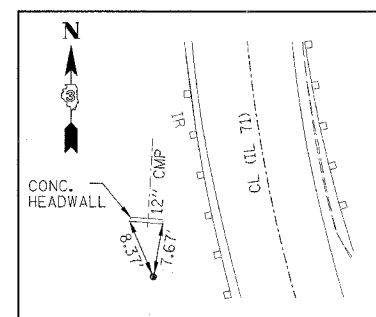
CURVE 6
 P.I. STA= 464+75.79
 $\Delta = 45^{\circ}36'$
 $D = 16^{\circ}55'20''$
 $R = 338.61'$
 $T = 142.34'$
 $L = 269.49'$
 $E = 28.7'$
 $S.E. = 0.04'/ft.$
 P.C. STA= 463+33.45
 P.T. STA= 466+02.94



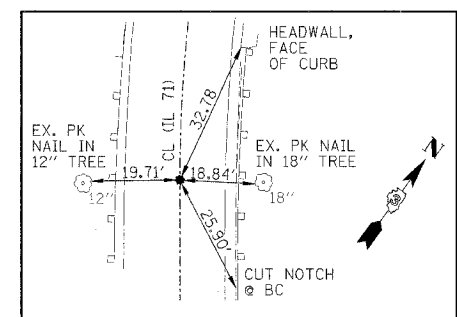
STA. 462+00.00 SPINDLE NAIL ON TANGENT



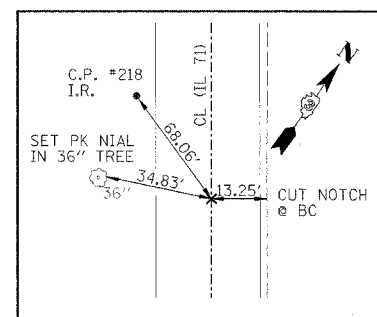
P.C. STA. 463+33.45 (CURVE #6) SPINDLE NAIL



P.I. STA. 464+75.79 (CURVE #6) IR



P.T. STA. 466+02.94 (CURVE #6) SPINDLE NAIL



STA. 469+00.00 EX PK NAIL ON TANGENT

TRANSIT LINE LOCATION & TIES
 STRUCTURE 050-0239
 STA. 462+46 TO STA. 467+62

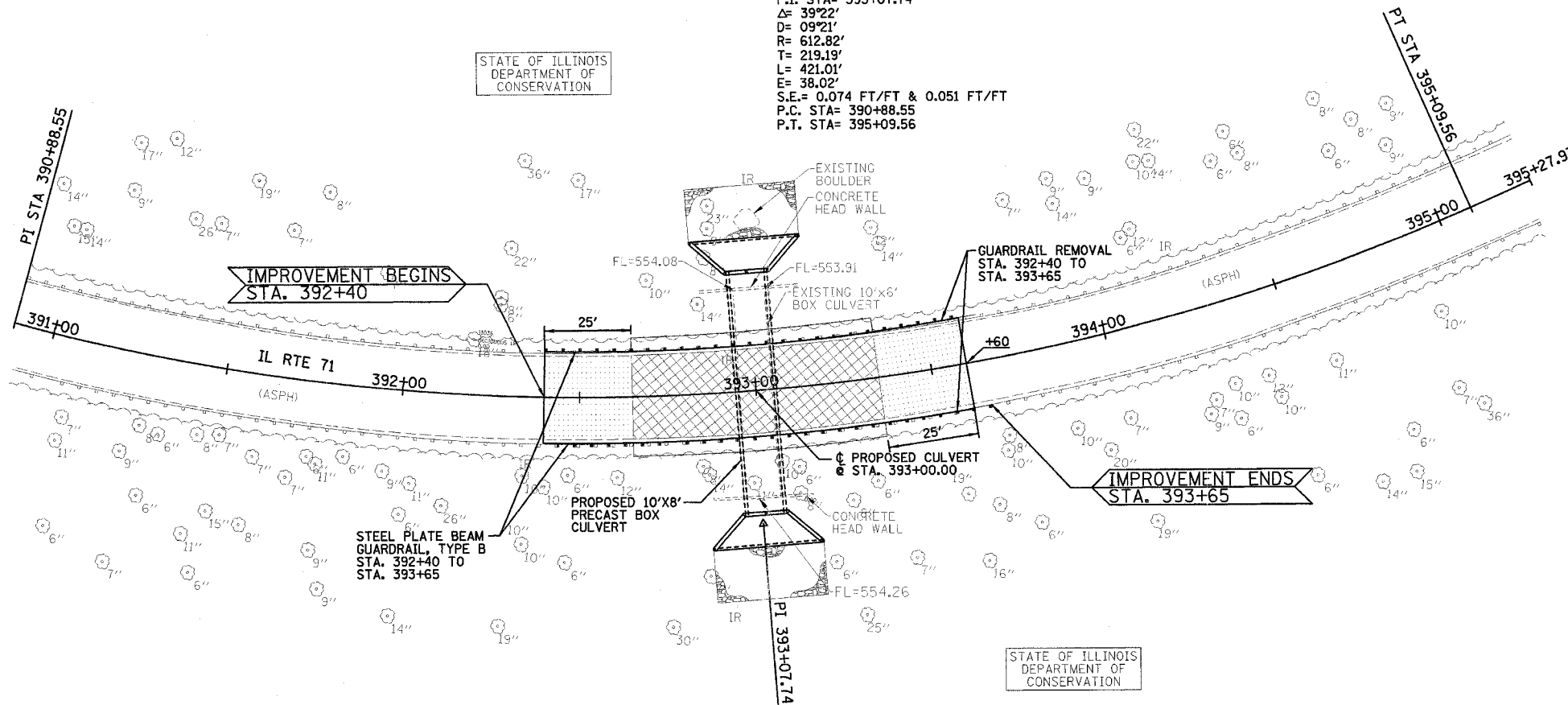
IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY

DESIGNED BY MSW	 3700 McGraw Drive Bloomington, Illinois 61704 309/888-8436, 309/888-3671 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 15 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I)-D BR & I	LA SALLE	106	16
STA. 392+40		TO STA. 393+65		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SE 1/4 SEC. 22, T33N, R2E, 3RD P.M.
CURVE #1
 P.I. STA= 393+07.74
 $\Delta = 39^{\circ}22'$
 $D = 09^{\circ}21'$
 $R = 612.82'$
 $T = 219.19'$
 $L = 421.01'$
 $E = 38.02'$
 $S.E. = 0.074 \text{ FT/FT} \ \& \ 0.051 \text{ FT/FT}$
 P.C. STA= 390+88.55
 P.T. STA= 395+09.56

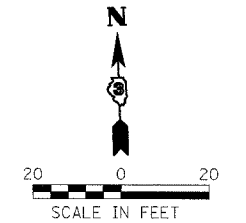
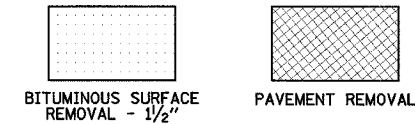
STATE OF ILLINOIS
 DEPARTMENT OF
 CONSERVATION



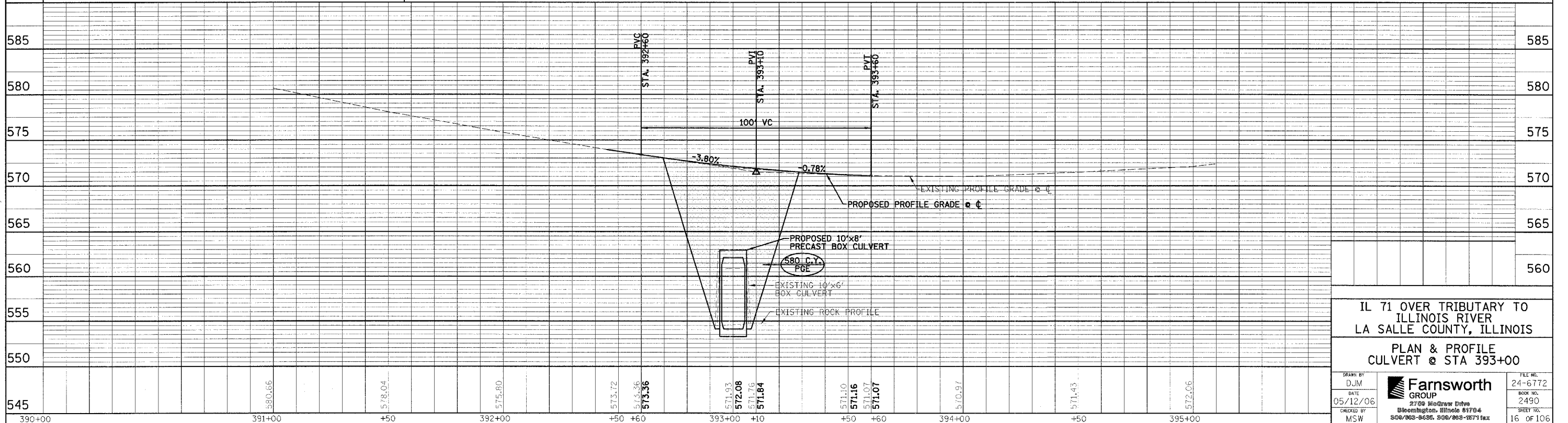
NOTES:

- 1.) SEE SHEETS 29-34 FOR STRUCTURAL PLANS.
- 2.) SEE SHEET 13 FOR TRANSIT LINE LOCATION & TIES.
- 3.) SEE SHEET 25 FOR TREE REMOVAL & EROSION CONTROL PLAN.
- 4.) SEE SHEET 6 FOR TYPICAL ROADWAY CROSS SECTION.
- 5.) SEE SHEETS 91-92 ROADWAY CROSS SECTIONS.

STATE OF ILLINOIS
 DEPARTMENT OF
 CONSERVATION



B.M. #1: TOP OF GUARDRAIL POST ON THE SOUTH SIDE OF IL RTE. 71 @ BACK CENTER OF THE 10TH POST EAST FROM THE WEST END OF THE RAIL @ STATION 400+80.31/14.61' RT., ELEVATION = 581.01.
B.M. #2: TOP OF GUARDRAIL POST ON THE SOUTH SIDE OF IL RTE. 71 @ BACK CENTER OF THE 10TH POST WEST FROM THE EAST END OF THE RAIL @ STATION 396+93.99/15.57' RT., ELEVATION = 579.55.



IL 71 OVER TRIBUTARY TO
 ILLINOIS RIVER
 LA SALLE COUNTY, ILLINOIS
PLAN & PROFILE
 @ STA 393+00

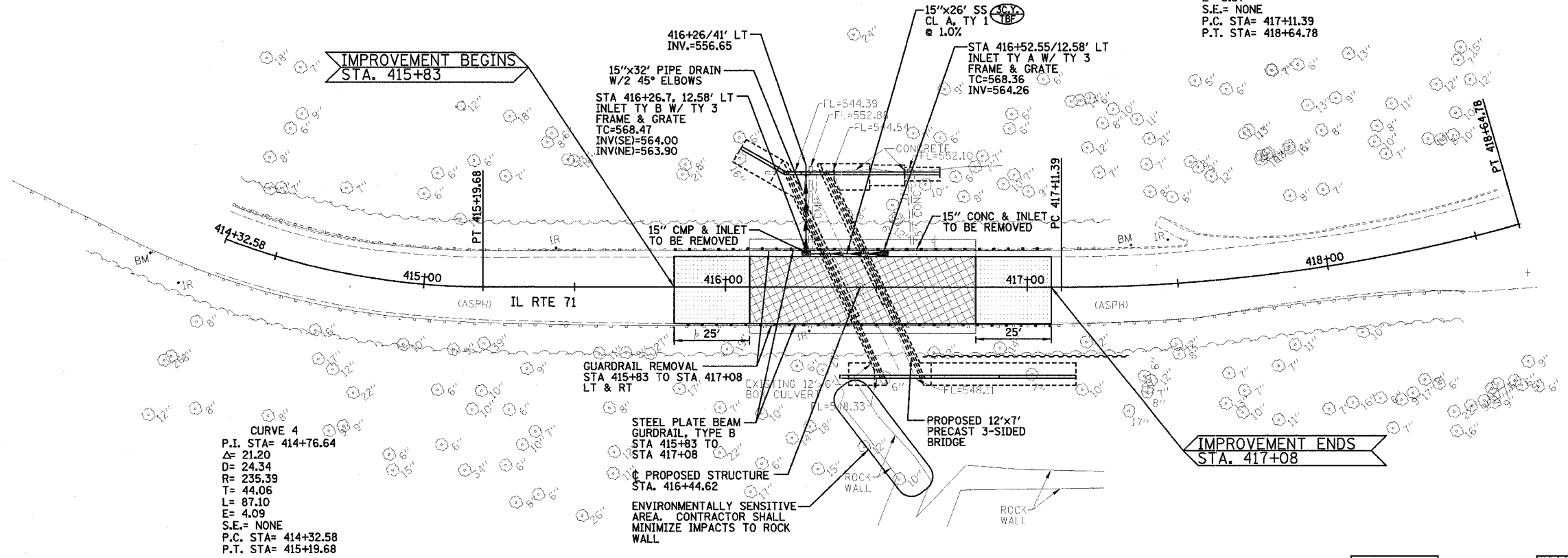
DRAWN BY DJM	 2700 MacDraw Drive Bloomington, Illinois 61704 800/963-8698, 309/863-0771 fax	FILE NO. 24-6772
DATE 05/12/06		BOOK NO. 2490
CHECKED BY MSW		SHEET NO. 16 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-I) BR & I	LA SALLE	106	17
STA. 415+83		TO STA. 417+08		
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

SW 1/4 SEC. 23, T33N, R2E, 3RD P.M.

CURVE 5
 P.I. STA= 417+88.57
 Δ= 15.81
 D= 10.31
 R= 555.96
 T= 77.18
 L= 153.38
 E= 5.37
 S.E.= NONE
 P.C. STA= 417+11.39
 P.T. STA= 418+64.78

STATE OF ILLINOIS
 DEPARTMENT OF
 CONSERVATION

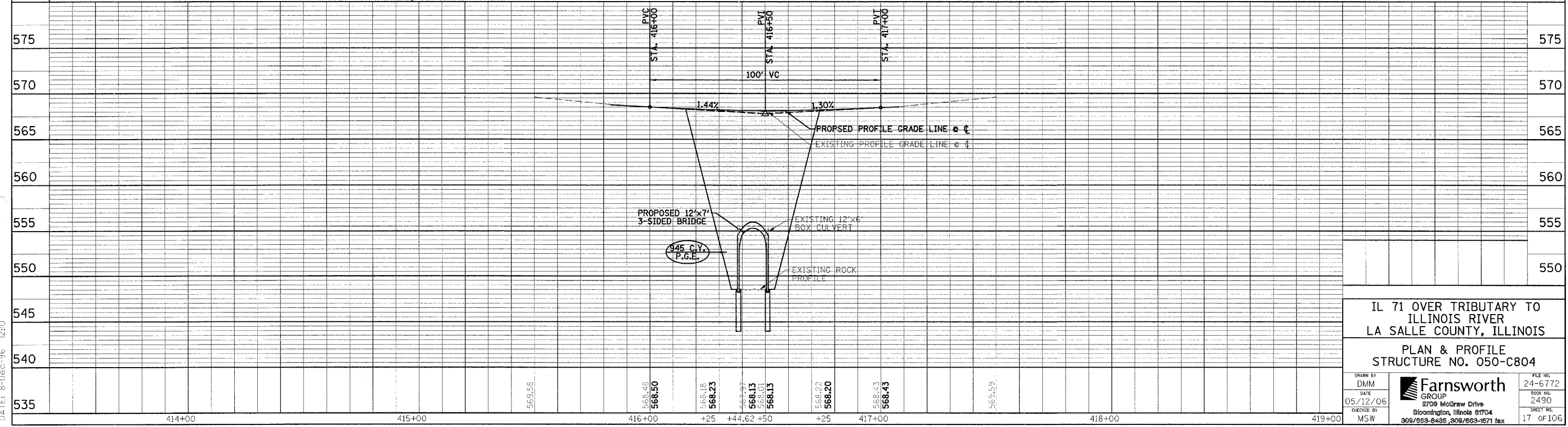
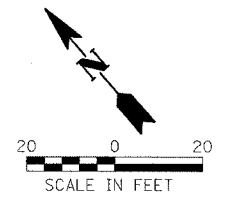
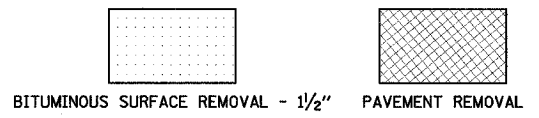


CURVE 4
 P.I. STA= 414+76.64
 Δ= 21.20
 D= 24.34
 R= 235.39
 T= 44.06
 L= 87.10
 E= 4.09
 S.E.= NONE
 P.C. STA= 414+32.58
 P.T. STA= 415+19.68

B.M. #1: TOP OF GUARDRAIL POST ON THE SOUTH SIDE OF IL RTE. 71 @ BACK CENTER OF THE 10TH POST EAST FROM THE WEST END OF THE RAIL @ STATION 414+12.06/14.26' RT., ELEVATION = 579.06.
B.M. #2: BOLT ON BACKSIDE OF WOOD END POST OF GUARDRAIL ON THE NORTH SIDE OF IL RTE. 71 APPROXIMATELY 8' WEST FROM END OF GUARDRAIL @ STATION 417+35.07/13.66' LT., ELEVATION = 570.33.

STATE OF ILLINOIS
 DEPARTMENT OF
 CONSERVATION

- NOTES:**
- 1.) SEE SHEETS 35-48 FOR STRUCTURAL PLANS.
 - 2.) SEE SHEET 14 FOR TRANSIT LINE LOCATION & TIES.
 - 3.) SEE SHEET 26 FOR TREE REMOVAL & EROSION CONTROL PLAN.
 - 4.) SEE SHEET 7 FOR TYPICAL ROADWAY CROSS SECTION.
 - 5.) SEE SHEETS 93-96 ROADWAY CROSS SECTIONS.



IL 71 OVER TRIBUTARY TO ILLINOIS RIVER
 LA SALLE COUNTY, ILLINOIS
 PLAN & PROFILE
 STRUCTURE NO. 050-C804

DRAWN BY DMM	<p>2709 McGraw Drive Bloomington, Illinois 61704 309/863-8435, 309/863-1671 fax</p>	FILE NO. 24-6772
DATE 05/12/06		BOOK NO. 2490
CHECKED BY MSW		SHEET NO. 17 OF 106

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 DATE: 8-Dec-96 12:0

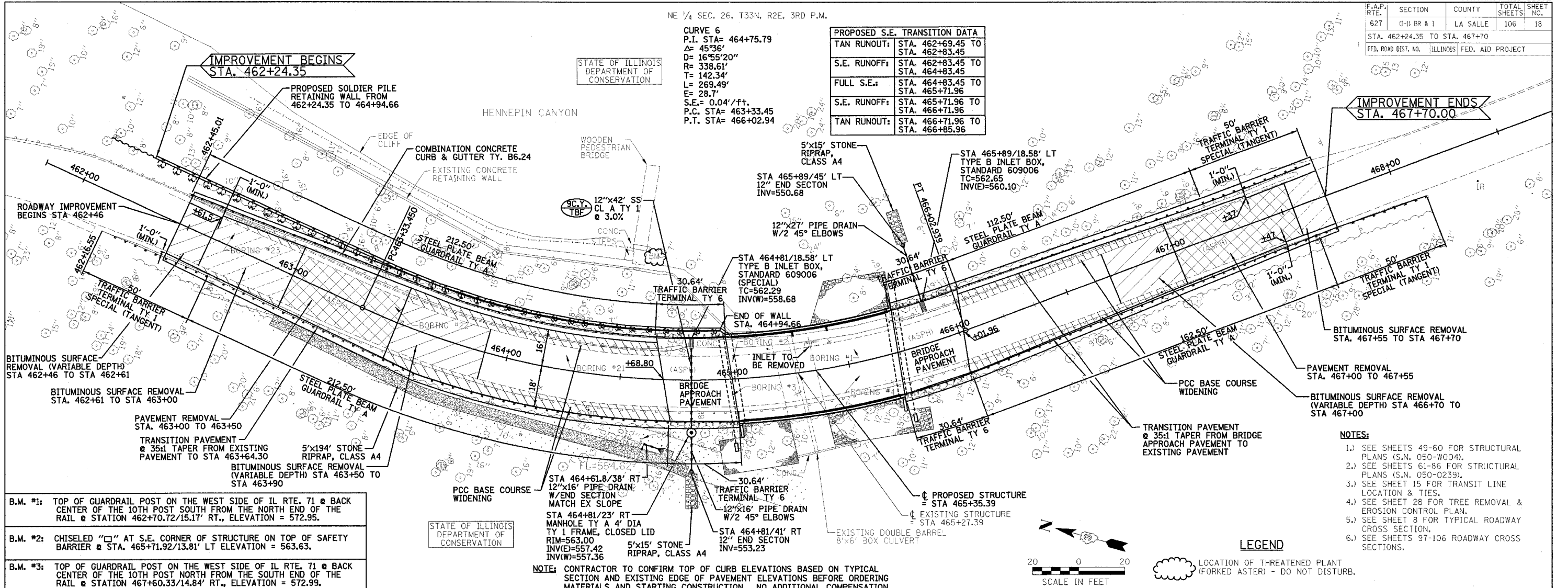
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	18
STA. 462+24.35 TO STA. 467+70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

NE 1/4 SEC. 26, T33N, R2E, 3RD P.M.

CURVE 6
 P.I. STA= 464+75.79
 Δ= 45°36'
 D= 16°55'20"
 R= 338.61'
 T= 142.34'
 L= 269.49'
 E= 28.7'
 S.E.= 0.04'/ft.
 P.C. STA= 463+33.45
 P.T. STA= 466+02.94

PROPOSED S.E. TRANSITION DATA

TAN RUNOUT:	STA. 462+69.45 TO STA. 462+83.45
S.E. RUNOFF:	STA. 462+83.45 TO STA. 464+83.45
FULL S.E.:	STA. 464+83.45 TO STA. 465+71.96
S.E. RUNOFF:	STA. 465+71.96 TO STA. 466+71.96
TAN RUNOUT:	STA. 466+71.96 TO STA. 466+85.96



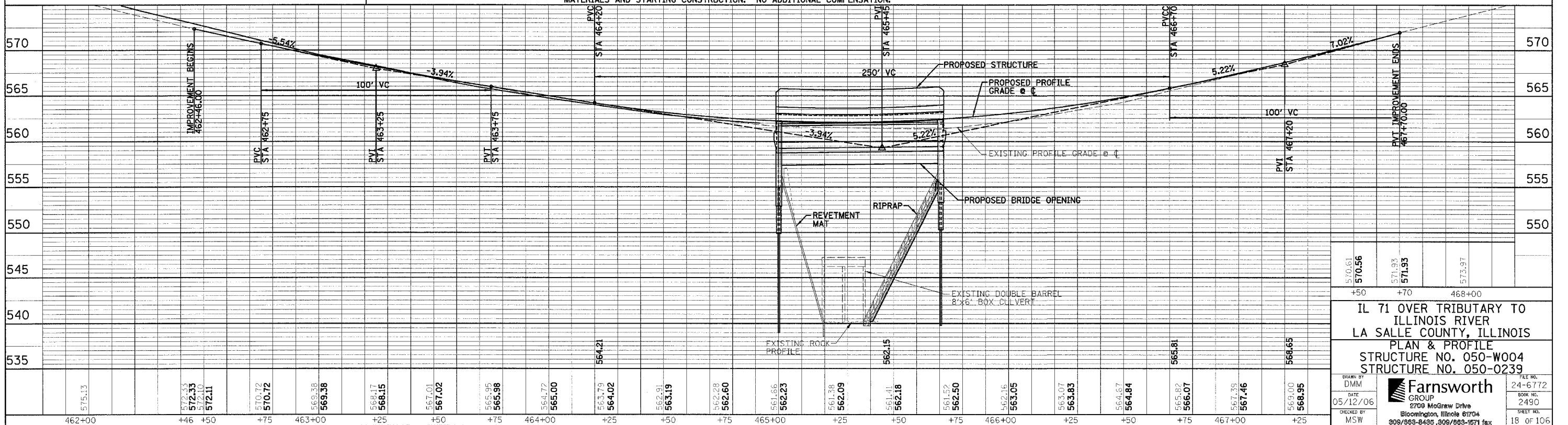
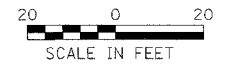
- B.M. #1: TOP OF GUARDRAIL POST ON THE WEST SIDE OF IL RTE. 71 @ BACK CENTER OF THE 10TH POST SOUTH FROM THE NORTH END OF THE RAIL @ STATION 462+70.72/15.17' RT., ELEVATION = 572.95.
- B.M. #2: CHISELED "C" AT S.E. CORNER OF STRUCTURE ON TOP OF SAFETY BARRIER @ STA. 465+71.92/13.81' LT ELEVATION = 563.63.
- B.M. #3: TOP OF GUARDRAIL POST ON THE WEST SIDE OF IL RTE. 71 @ BACK CENTER OF THE 10TH POST NORTH FROM THE SOUTH END OF THE RAIL @ STATION 467+60.33/14.84' RT., ELEVATION = 572.99.

NOTE: CONTRACTOR TO CONFIRM TOP OF CURB ELEVATIONS BASED ON TYPICAL SECTION AND EXISTING EDGE OF PAVEMENT ELEVATIONS BEFORE ORDERING MATERIALS AND STARTING CONSTRUCTION. NO ADDITIONAL COMPENSATION.

- NOTES:**
- SEE SHEETS 49-60 FOR STRUCTURAL PLANS (S.N. 050-W004).
 - SEE SHEETS 61-86 FOR STRUCTURAL PLANS (S.N. 050-0239).
 - SEE SHEET 15 FOR TRANSIT LINE LOCATION & TIES.
 - SEE SHEET 28 FOR TREE REMOVAL & EROSION CONTROL PLAN.
 - SEE SHEET 8 FOR TYPICAL ROADWAY CROSS SECTION.
 - SEE SHEETS 97-106 ROADWAY CROSS SECTIONS.

LEGEND

LOCATION OF THREATENED PLANT (FORKED ASTER) - DO NOT DISTURB.



IL 71 OVER TRIBUTARY TO ILLINOIS RIVER
 LA SALLE COUNTY, ILLINOIS
 PLAN & PROFILE
 STRUCTURE NO. 050-W004
 STRUCTURE NO. 050-0239

570.61	570.56	571.93	571.93	573.97
+50	+70	468+00		

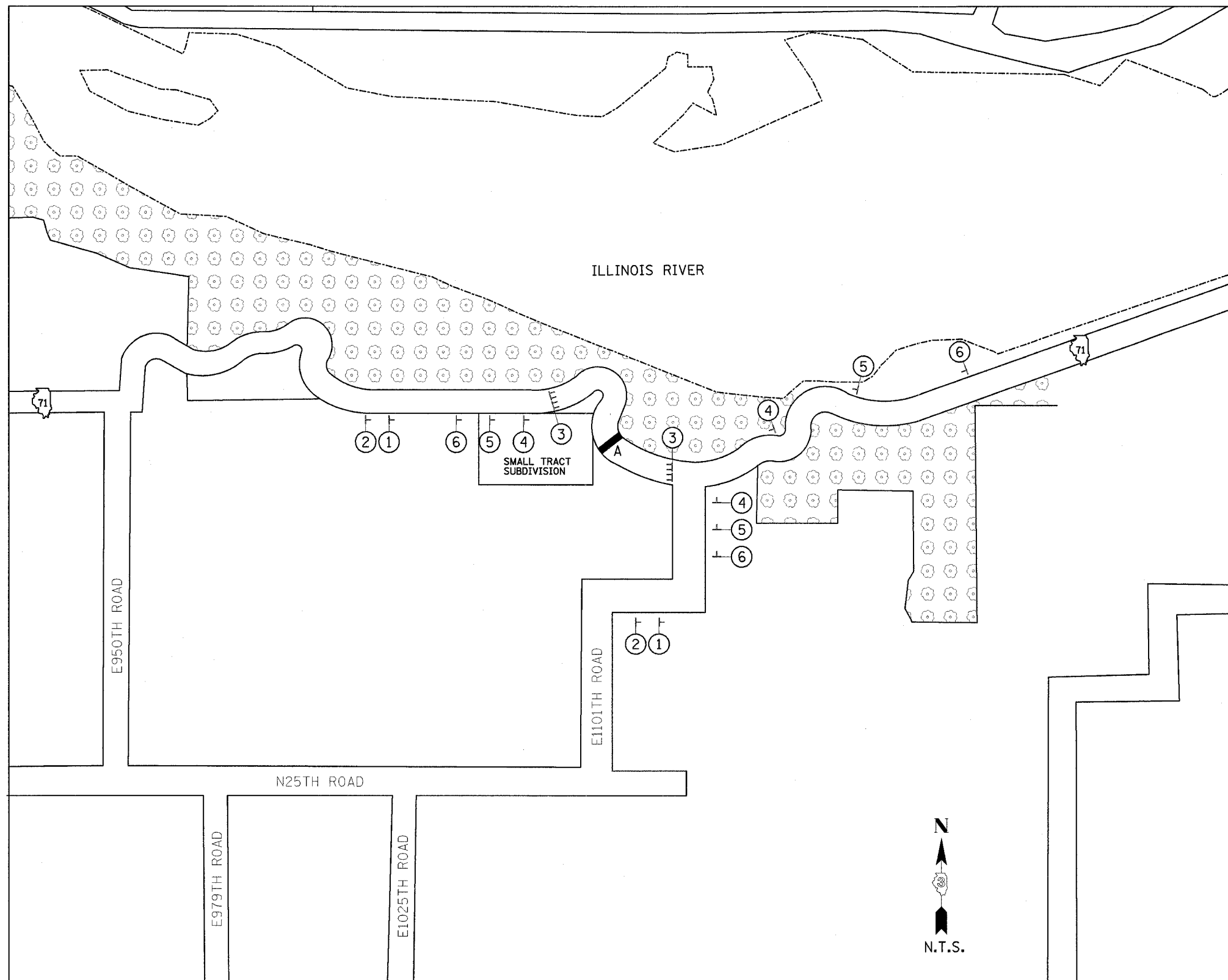
DRAWN BY: DMM
 DATE: 05/12/06
 CHECKED BY: MSW
Farnsworth GROUP
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/893-8485, 309/893-1671 fax
 FILE NO. 24-6772
 BOOK NO. 2490
 SHEET NO. 18 OF 106
 PP-2

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	19
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- XXXX TO BE COVERED
- FLASHING LIGHT
- ◇ 18"x8" ORANGE FLAG
- TT TYPE III BARRICADE
- DIRECTION ARROW CHANGE

- ① **ROAD CLOSED TO THRU TRAFFIC**
R11-4
60x30
- ② **ROAD WORK AHEAD**
W20-1
36x36
- ③ **ROAD CLOSED**
R11-2
48x30
- ④ **ROAD CLOSED 500 FT**
W20-3
36x36
- ⑤ **ROAD CLOSED 1000 FT**
W20-3
36x36
- ⑥ **ROAD CLOSED 1500 FT**
W20-3
36x36



STRUCTURE LOCATIONS
A.) S.N. 050-0239 @ STA. 465+35.39

GENERAL NOTES:

- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS SHALL BE POST MOUNTED.
- 3.) ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH 2 (TWO) TYPE A BI-DIRECTIONAL FLASHING LIGHTS.

PHASE I SIGNAGE

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

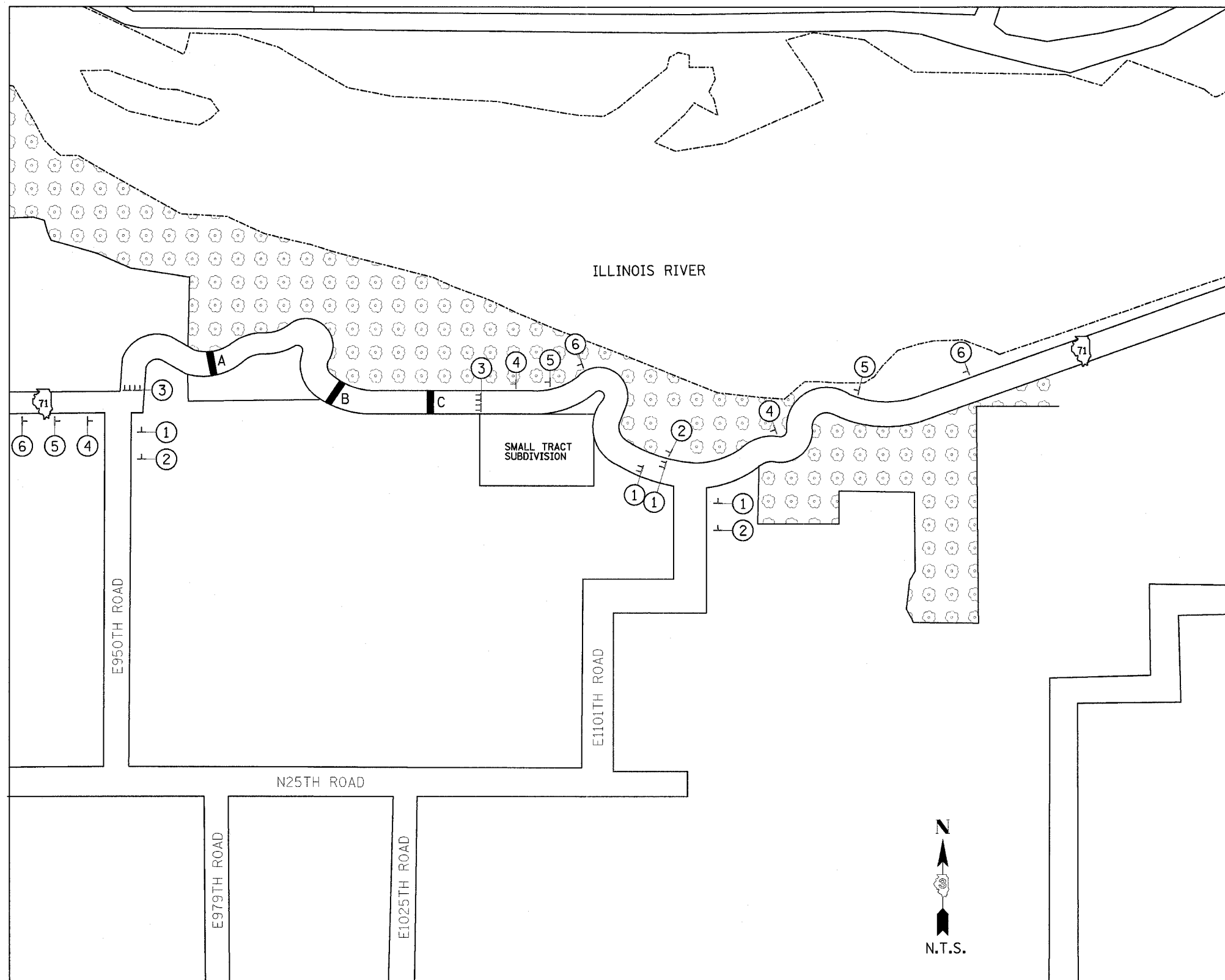
DESIGNED BY MSW	<p>Farnsworth GROUP 2700 McFraw Drive Bloomington, Illinois 61704 309/883-8636, 309/883-9771 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 19 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

LEGEND

- XXXX TO BE COVERED
- FLASHING LIGHT
- ◇ 18"x8" ORANGE FLAG
- TT TYPE III BARRICADE
- DIRECTION ARROW CHANGE

- ① ROAD CLOSED TO THRU TRAFFIC
R11-4
60x30
- ② ROAD WORK AHEAD
W20-1
36x36
- ③ ROAD CLOSED
R11-2
48x30
- ④ ROAD CLOSED 500 FT
W20-3
36x36
- ⑤ ROAD CLOSED 1000 FT
W20-3
36x36
- ⑥ ROAD CLOSED 1500 FT
W20-3
36x36



STRUCTURE LOCATIONS

- A.) CULVERT @ STA. 393+00.00
- B.) S.N. 050-C804 @ STA. 416+44.62
- C.) CULVERT @ STA. 437+31.00



GENERAL NOTES:

- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS SHALL BE POST MOUNTED.
- 3.) ALL TYPE III BARRICADES SHALL BE EQUIPPED WITH 2 (TWO) TYPE A BI-DIRECTIONAL FLASHING LIGHTS.

PHASE II SIGNAGE

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

DESIGNED BY MSW	<p>Farnsworth GROUP 2706 McGraw Drive Bloomington, Illinois 61704 309/898-9036, 309/898-1671 fax</p>	FILE NO. 24-6772
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CHECKED BY MSW		SHEET NO. 20 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	21
STA. TO STA.				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

- XXXX TO BE COVERED
- FLASHING LIGHT
- ◇ 18"x8" ORANGE FLAG
- TT TYPE III BARRICADE
- DIRECTION ARROW CHANGE

① **ROAD CLOSED**
1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3a
60x30
MI-1100
24x24

② **STARVED ROCK 1**

③

④ **ROAD CLOSED**
1/2 MILES AHEAD
LOCAL TRAFFIC ONLY
R11-3a
60x30
MI-1100
24x24

⑤ **71**

⑥ **← OGLESBY**
OTTAWA

⑦ **DETOUR**
M4-8
24x12
M6-1
21x15

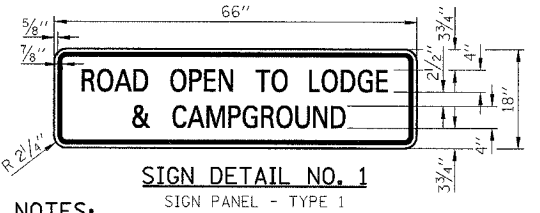
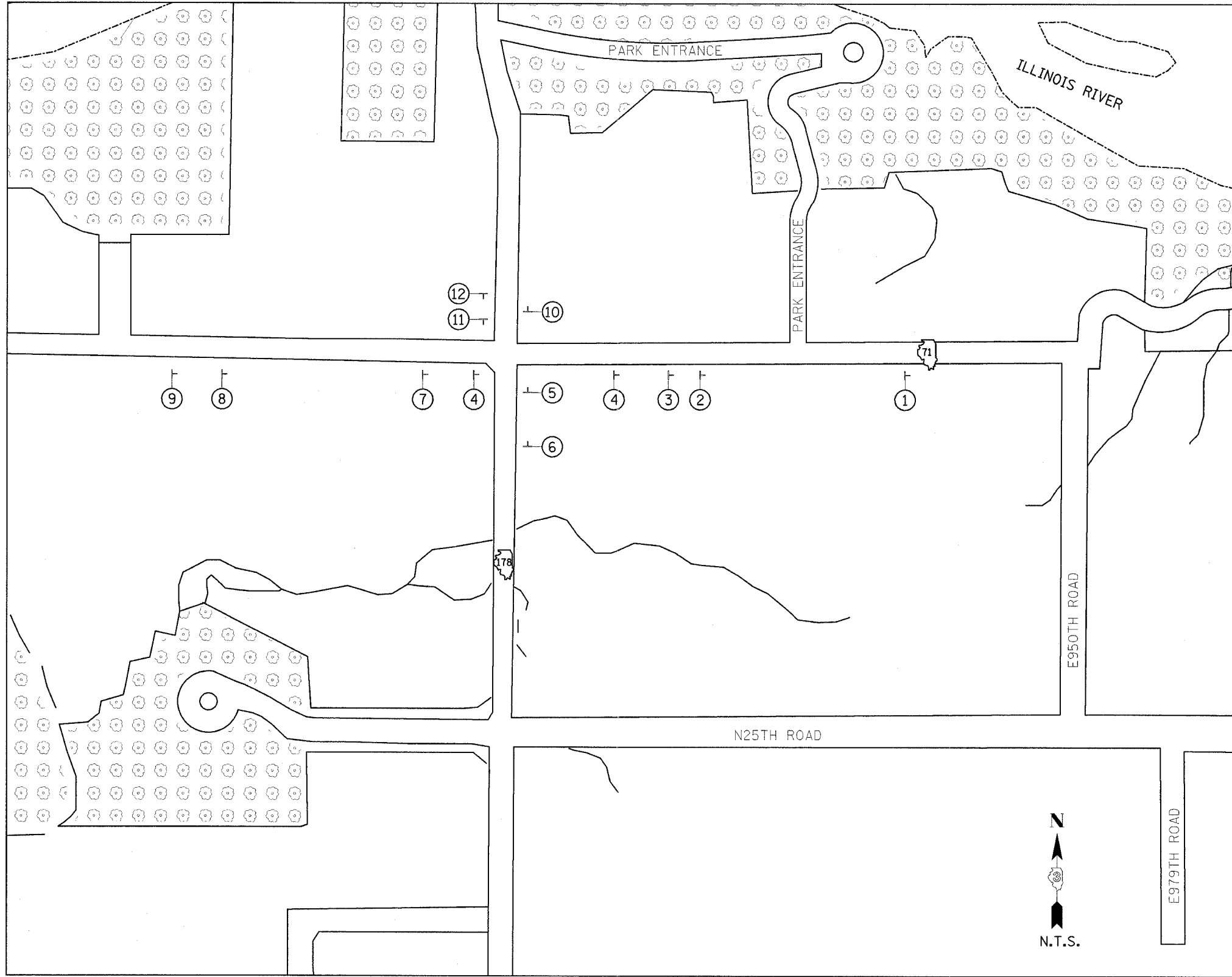
⑧ **DETOUR**
AHEAD
W20-2
36x36

⑨ **ROAD**
CLOSED
AHEAD
W20-3
36x36

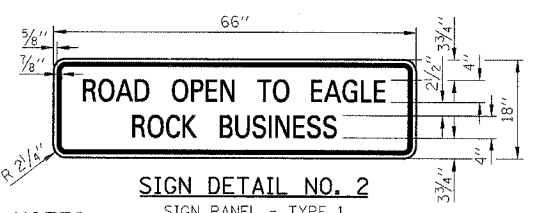
⑩ **DETOUR**
M4-8
24x12
MI-1100
24x24

⑪ **71**

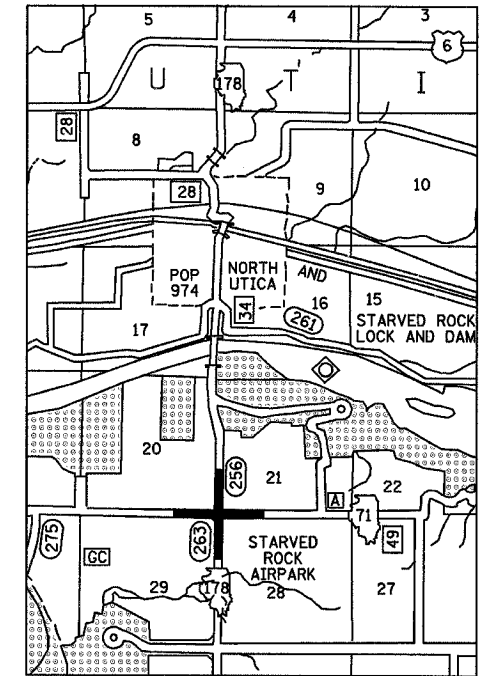
⑫ **← OTTAWA**
OGLESBY →



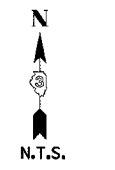
NOTES:
1.) AREA = 8.25 SQ. FT.
2.) TOTAL AREA REQUIRED (3-SIGNS) = 24.75 SQ. FT.
3.) 4" SERIES C LETTERS
4.) LEGEND = BLACK
5.) BACKGROUND = ORANGE



NOTES:
1.) AREA = 8.25 SQ. FT.
2.) TOTAL AREA REQUIRED (3-SIGNS) = 24.75 SQ. FT.
3.) 4" SERIES C LETTERS
4.) LEGEND = BLACK
5.) BACKGROUND = ORANGE



LOCATION MAP



SIGN COORDINATION:

DURING PHASE I:
UNDER THE "STARVED ROCK" SIGNS ON THE NORTH, SOUTH AND WEST LEGS OF THE INTERSECTION OF IL 71 & IL 178, PLACE SIGN DETAIL NO. 1 AND NO. 2.

DURING PHASE II:
SIGN DETAIL NO. 2 SHOULD BE RELOCATED TO IL 71 WESTBOUND, EAST OF THE IL 25 INTERSECTION.

JUNCTION IL 178 & IL 71

GENERAL NOTES:

- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS TO BE POST MOUNTED.
- 3.) WHEN IL 71 TRAFFIC IS DETOURED, COVER THE WEST IL 71 ROUTE CONFIRMATION MARKERS THROUGH OTTAWA ON SOUTHBOUND IL 23.

DETOUR MAP

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

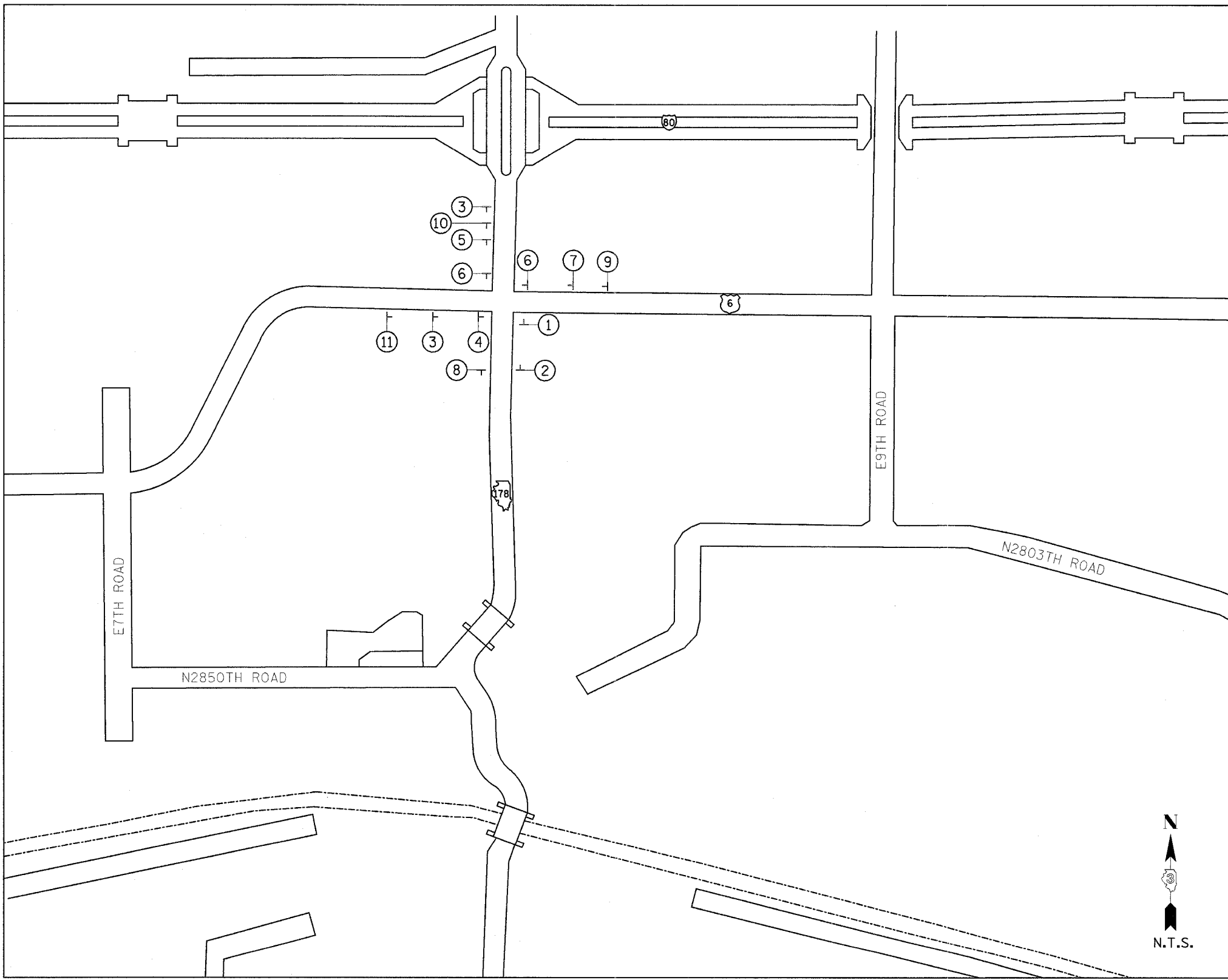
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DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 21 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	22
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

LEGEND

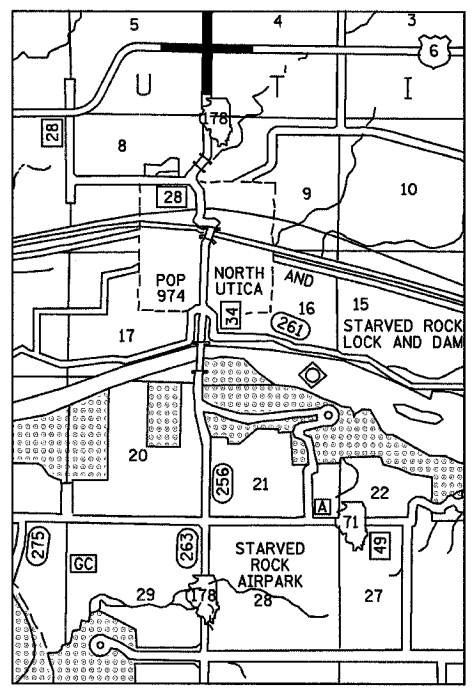
- XXXX TO BE COVERED
- FLASHING LIGHT
- 18"x8" ORANGE FLAG
- TT TYPE III BARRICADE
- ▭ DIRECTION ARROW CHANGE

- ① **DETOUR** M4-8 24x12
71
M6-1 21x15
- ② **DETOUR** M4-8 24x12
M1-1100 24x24 71
M5-1 21x15
- ③ **DETOUR** M4-8 24x12
M2-1 21x12 **JCT**
71 M1-1100 24x24
- ④ **DETOUR** M4-8 24x12
M1-1100 24x24 71
M6-6 21x15
- ⑤ **DETOUR** M4-8 24x12
M1-1100 24x24 71
M6-6 21x15
- ⑥ **DETOUR** M4-8 24x12
WEST M3-4 24x12
71
*ONLY AT NORTH LEG OF INTERSECTION.
M6-1 21x15
- ⑦ **DETOUR** M4-8 24x12
M1-1100 24x24 71
M5-1 21x15
- ⑧ **STATE PARKS**
STARVED ROCK 3
MATTHIESSEN 5
BUFFALO ROCK 8
ROAD TO PARKS OPEN SEE "SIGN DETAIL"
- ⑨ **STATE PARKS**
← STARVED ROCK
← BUFFALO ROCK
← MATTHIESSEN
ROAD TO PARKS OPEN SEE "SIGN DETAIL"
- ⑩ **STATE PARKS**
↑ STARVED ROCK
↑ BUFFALO ROCK
↑ MATTHIESSEN
ROAD TO PARKS OPEN SEE "SIGN DETAIL"
- ⑪ **STATE PARKS**
STARVED ROCK →
BUFFALO ROCK →
MATTHIESSEN →
ROAD TO PARKS OPEN SEE "SIGN DETAIL"



SIGN DETAIL
SIGN PANEL - TYPE 1

- NOTES:**
- 1.) AREA = 5.25 SQ. FT.
 - 2.) TOTAL AREA REQUIRED (4-SIGNS) = 21.0 SQ. FT.
 - 3.) 4" SERIES C LETTERS
 - 4.) LEGEND = BLACK
 - 5.) BACKGROUND = ORANGE



LOCATION MAP

JUNCTION IL 178 & US 6

GENERAL NOTES:

- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS TO BE POST MOUNTED.

DETOUR MAP

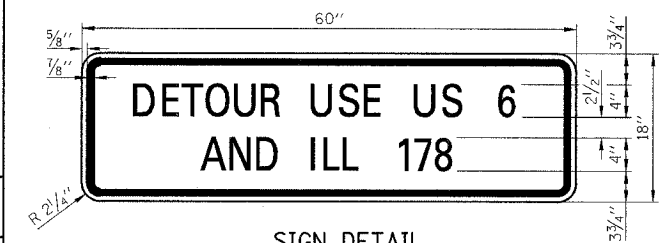
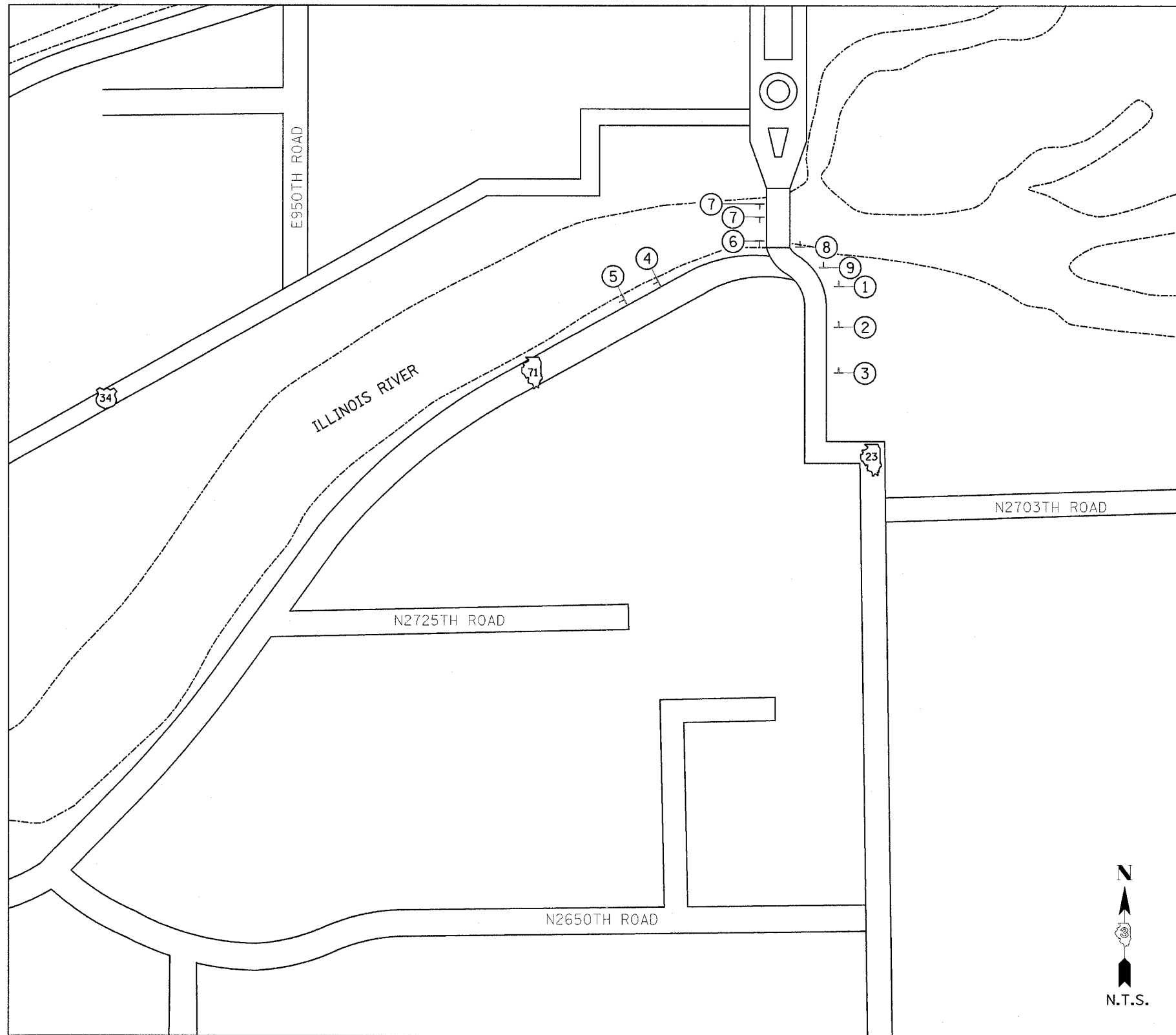
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY

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DRAWN BY DJM		DATE 05/12/06
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	23
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

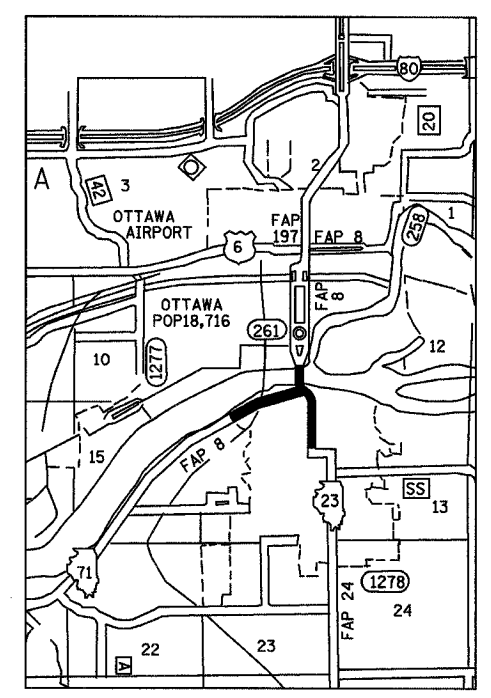
- LEGEND**
- XXXX TO BE COVERED
 - FLASHING LIGHT
 - ◇ 18"x8" ORANGE FLAG
 - TT TYPE III BARRICADE
 - DIRECTION ARROW CHANGE

- ① 71 23
- ② OSWEGO
OGLESBY
STARVED ROCK
- ③ DETOUR
AHEAD
W20-2
36x36
- ④ ROAD CLOSED
6 MILES AHEAD
LOCAL TRAFFIC ONLY
71
M1-1100
24x24
R11-3a
60x30
- ⑤ X-hatched sign
- ⑥ SOUTH
STREATOR
WEST
OGLESBY
STARVED ROCK
23
- ⑦ 23
- ⑧ DETOUR
71
M1-1100
24x24
M4-8
24x12
M6-3
21x15
- ⑨ ROAD CLOSED
TO
THRU TRAFFIC
DETOUR USE US 6
AND ILL 178
71
M1-1100
24x24
R11-4
60x30
SEE "SIGN
DETAIL"



SIGN DETAIL
SIGN PANEL - TYPE 1

- NOTES:**
- 1.) TOTAL AREA = 7.5 SQ. FT.
 - 2.) 4" SERIES C LETTERS
 - 3.) LEGEND = BLACK
 - 4.) BACKGROUND = ORANGE



LOCATION MAP



JUNCTION IL 23 & IL 71

GENERAL NOTES:

- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS TO BE POST MOUNTED.

DETOUR MAP

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (1-1) BR & I
LA SALLE COUNTY

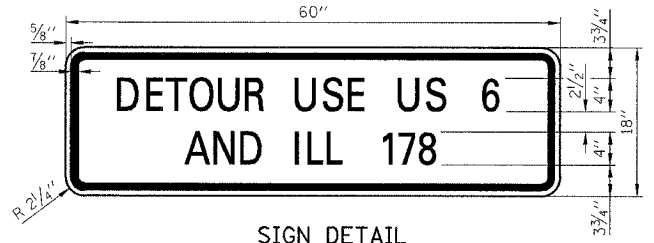
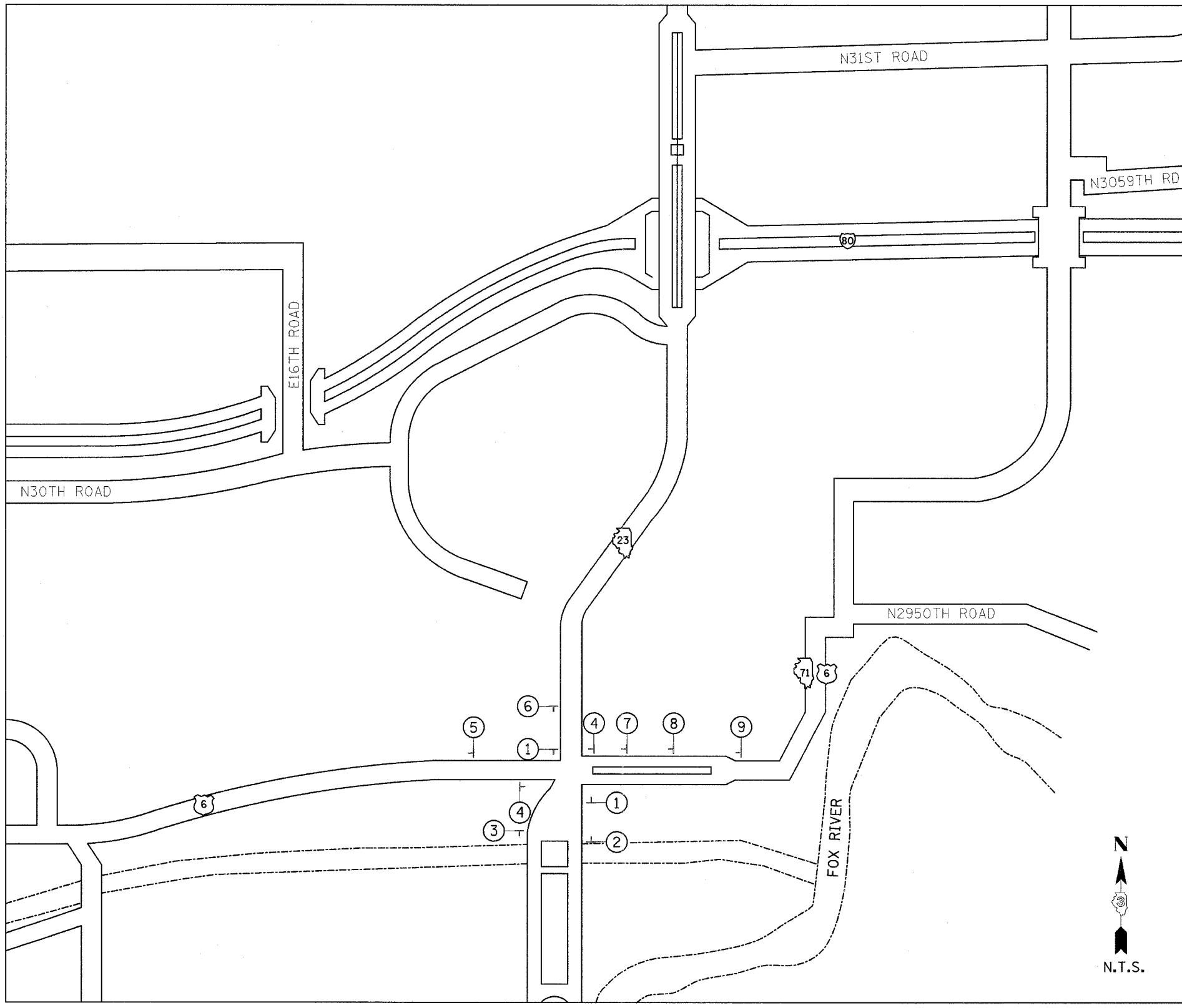
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DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 23 of 106

F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

LEGEND

- XXXX TO BE COVERED
- FLASHING LIGHT
- ◇ 18"x8" ORANGE FLAG
- TT TYPE III BARRICADE
- DIRECTION ARROW CHANGE

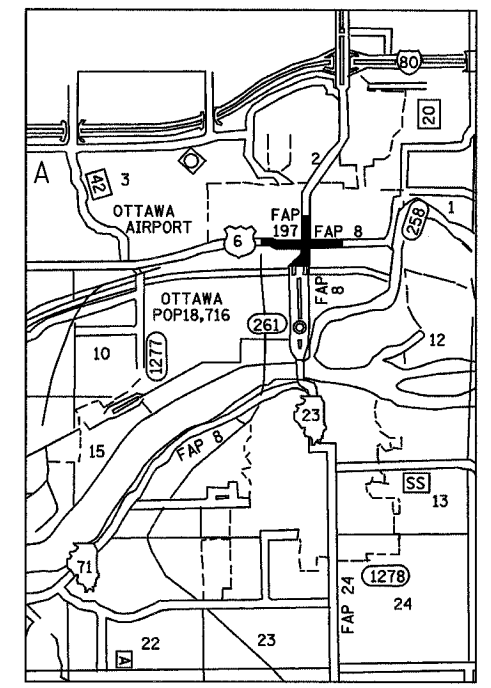
1. [Sign: 71] M1-I100 24x24
2. [Sign: DETOUR WEST] M3-4 24x12, M4-8 24x12, M5-1 21x15, M1-I100 24x24
3. [Sign: ROAD CLOSED 7 MILES AHEAD LOCAL TRAFFIC ONLY DETOUR USE US 6 AND ILL 178] M1-I100 24x24, R11-3a 60x30
4. [Sign: 71]
5. [Sign: DETOUR] M4-8 24x12, M1-I100 24x24
6. [Sign: ROAD CLOSED 7 MILES AHEAD LOCAL TRAFFIC ONLY DETOUR] M1-I100 24x24, R11-3a 60x30, M4-10 48x18
7. [Sign: DETOUR] M4-8 24x12, M1-I100 24x24, M6-3 21x15
8. [Sign: DETOUR AHEAD] W20-2 36x36
9. [Sign: ROAD CLOSED 7 MILES AHEAD LOCAL TRAFFIC ONLY DETOUR USE US 6 AND ILL 178] M1-I100 24x24, R11-3a 60x30



SIGN DETAIL
SIGN PANEL - TYPE 1

NOTES:

- 1.) AREA REQUIRED = 7.5 SQ. FT.
- 2.) TOTAL AREA (2-SIGNS) = 15.0 SQ. FT.
- 3.) 4" SERIES C LETTERS
- 4.) LEGEND = BLACK
- 5.) BACKGROUND = ORANGE



LOCATION MAP

DETOUR MAP

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (1-1) BR & I
LA SALLE COUNTY

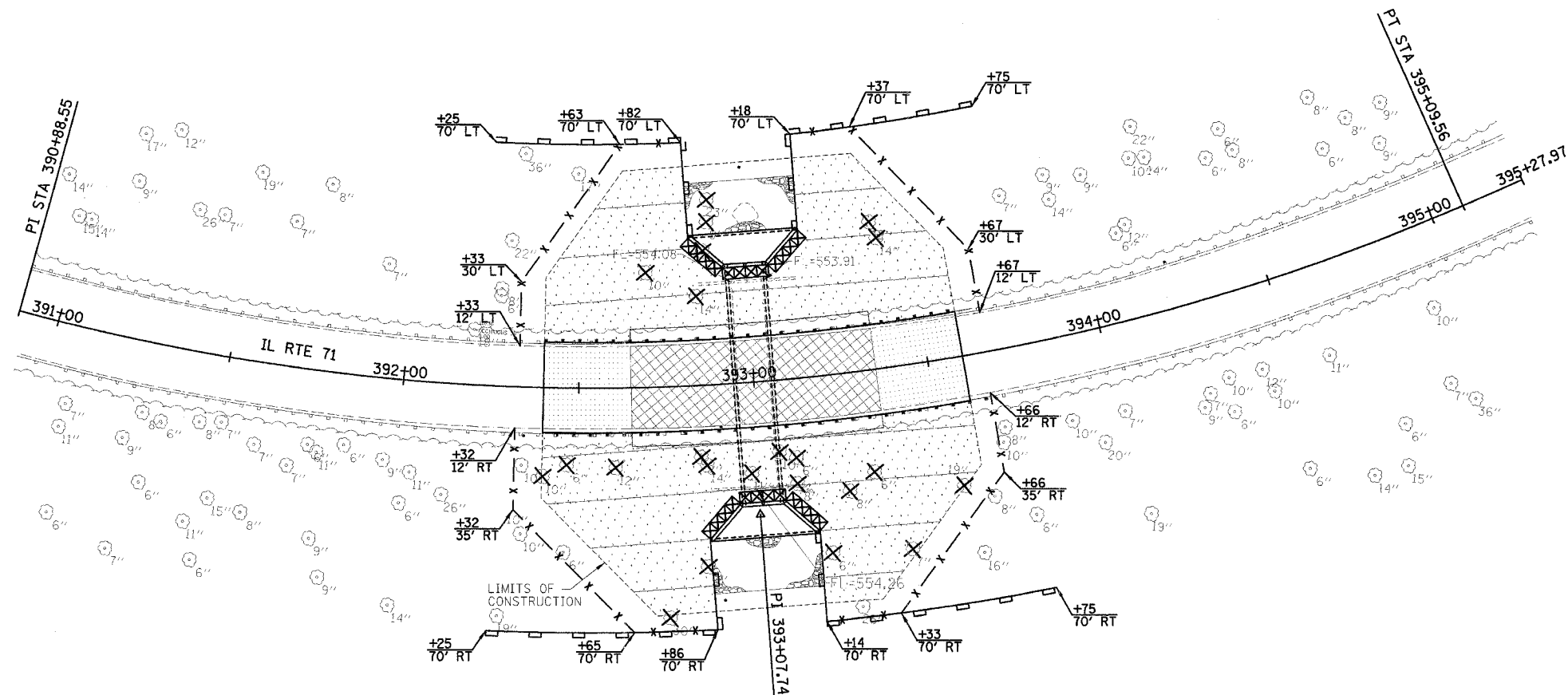
JUNCTION IL 23 & US 6

GENERAL NOTES:

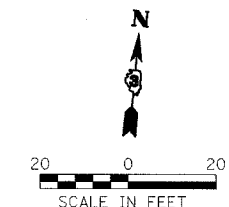
- 1.) ONLY SIGNS THAT ARE TO BE CHANGED OR ADDED ARE SHOWN ON THIS MAP.
- 2.) ALL SIGNS TO BE POST MOUNTED.

DESIGNED BY MSW	 2700 McGrand Drive Bloomington, Illinois 61704 309/898-6436, 309/898-1871 fax	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 24 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	25
STA. 392+40 TO STA. 393+65				
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



LEGEND	
	INLET & PIPE PROTECTION
	PERIMETER EROSION BARRIER
	TEMPORARY CONSTRUCTION FENCE
	TEMPORARY EROSION CONTROL SEEDING, SEEDING (SPECIAL), & HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)
	RIPRAP
	DECIDUOUS TREE TO BE REMOVED
	EVERGREEN TREE TO BE REMOVED
	LOCATION OF THREATENED PLANT (FORKED ASTER)



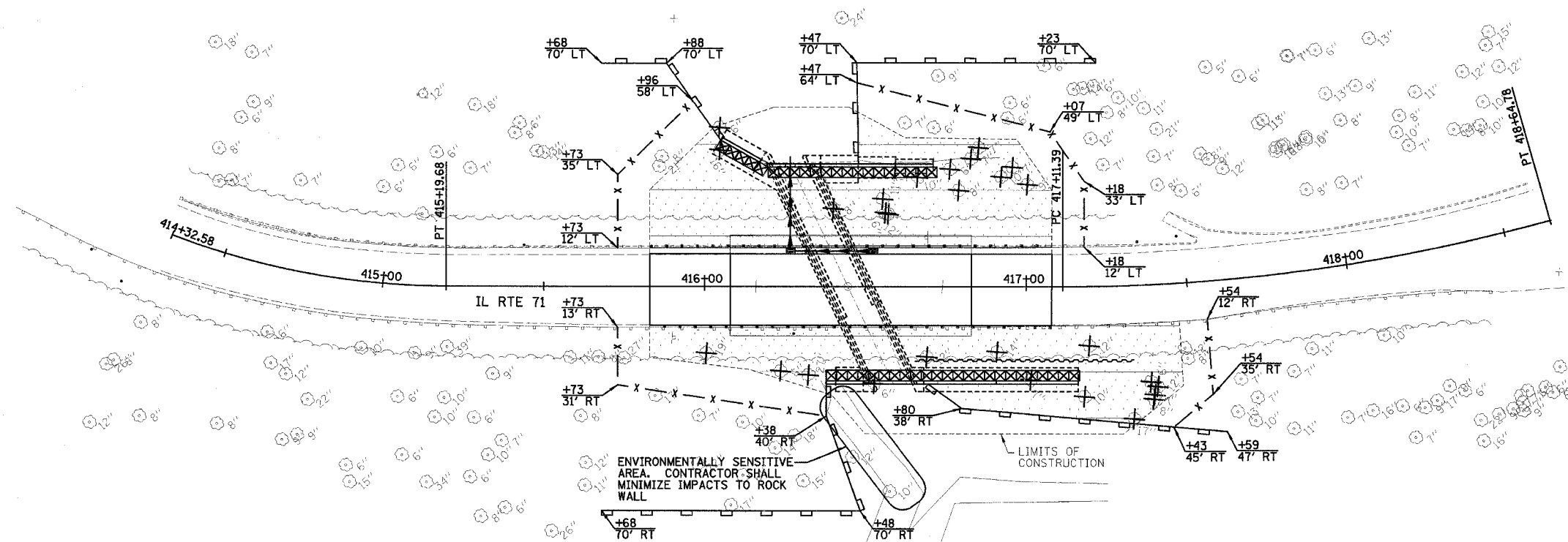
NOTE:
NO PARKING OF CONTRACTOR VEHICLES OUTSIDE OF EXISTING PAVEMENT.

LIMITS OF CONSTRUCTION, EROSION CONTROL AND TREE REMOVAL PLAN

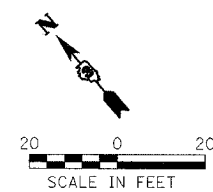
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
CULVERT @ STATION 393+00.00

DESIGNED BY MSW	 2706 McGraw Drive Bloomington, Illinois 61704 309/893-6435, 309/893-1871 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 25 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	26
STA. 415+83		TO STA. 417+08		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			



LEGEND	
	INLET & PIPE PROTECTION
	PERIMETER EROSION BARRIER
	TEMPORARY CONSTRUCTION FENCE
	TEMPORARY EROSION CONTROL SEEDING, SEEDING (SPECIAL), & HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)
	RIPRAP
	DECIDUOUS TREE TO BE REMOVED
	EVERGREEN TREE TO BE REMOVED
	LOCATION OF THREATENED PLANT (FORKED ASTER)

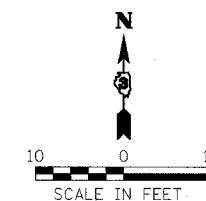
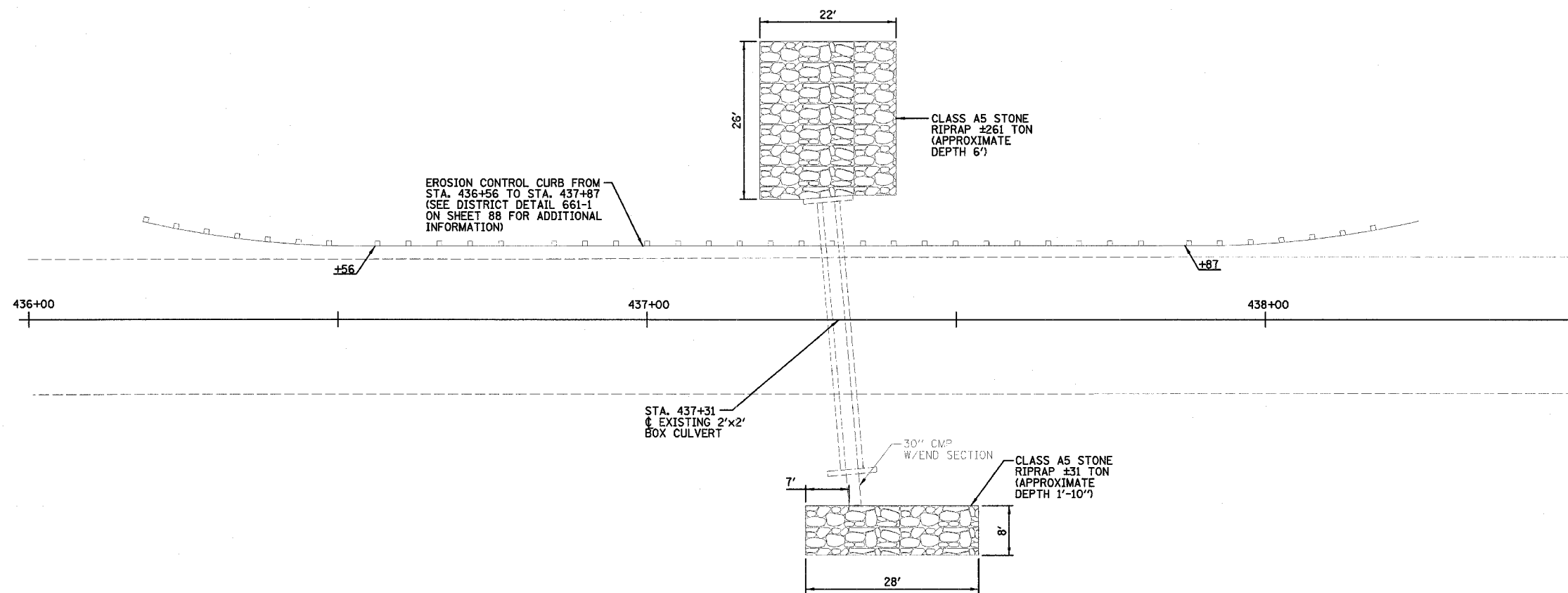


NOTE:
NO PARKING OF CONTRACTOR VEHICLES OUTSIDE OF EXISTING PAVEMENT.

LIMITS OF CONSTRUCTION, EROSION CONTROL AND TREE REMOVAL PLAN
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

DESIGNED BY MSW	 2700 McGraw Drive Bloomington, Illinois 61704 306/893-8635, 306/893-1871 fax	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 26 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS	NO.
627	(I-1) BR & I	LA SALLE	106	27
STA. 436+56		TO STA. 437+87		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



NOTE:

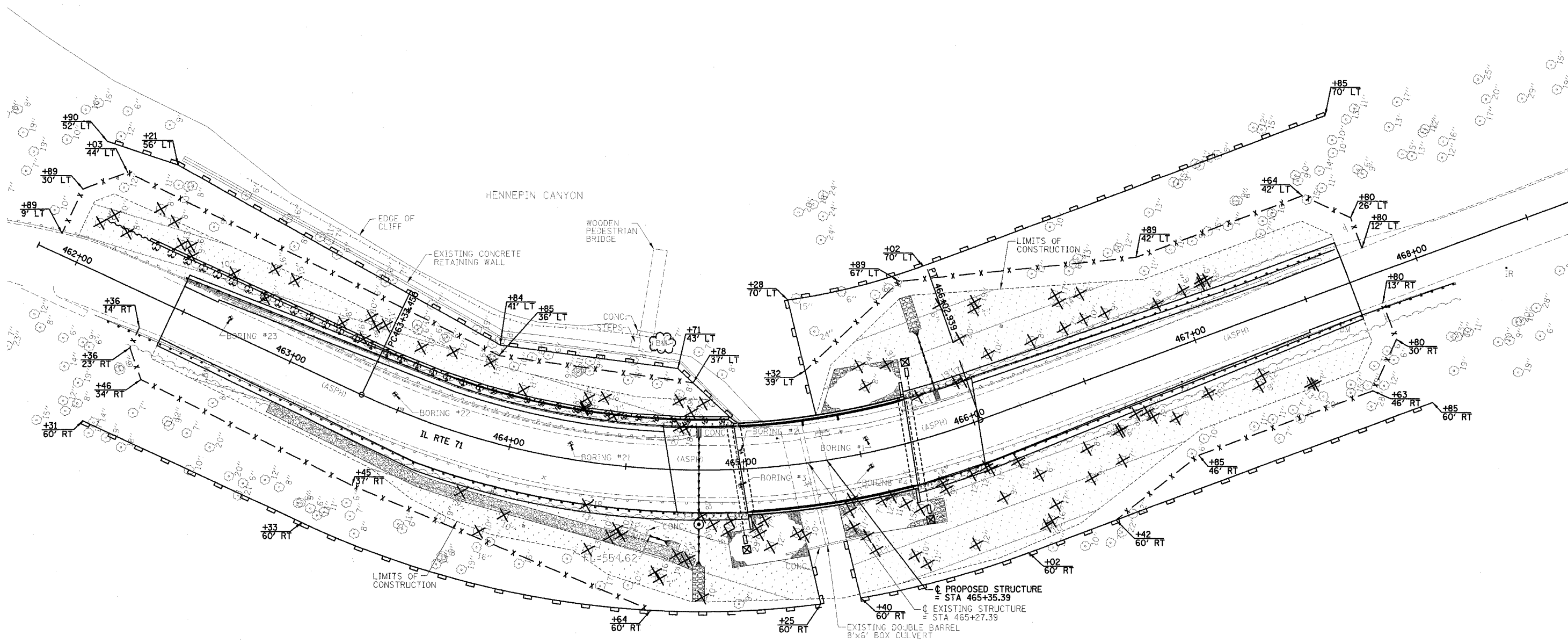
NO PARKING OF CONTRACTOR VEHICLES OUTSIDE OF EXISTING PAVEMENT.

EROSION CONTROL PLAN

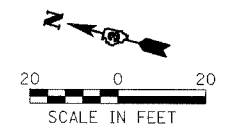
IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 CULVERT @ STATION 437+31

DESIGNED BY MSW	 2706 McCreaw Drive Bloomington, Illinois 61704 302/603-8026, 302/603-1571 fax	FILE NO. 24-6772
DRAWN BY DMM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 27 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	28
STA. 462+24.35 TO STA. 467+70				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				



LEGEND	
	INLET & PIPE PROTECTION
	PERIMETER EROSION BARRIER
	TEMPORARY CONSTRUCTION FENCE
	TEMPORARY EROSION CONTROL SEEDING, SEEDING (SPECIAL), & HEAVY DUTY EROSION CONTROL BLANKET (SPECIAL)
	RIPRAP
	DECIDUOUS TREE TO BE REMOVED
	EVERGREEN TREE TO BE REMOVED
	LOCATION OF THREATENED PLANT (FORKED ASTER) - DO NOT DISTURB



NOTE:
NO PARKING OF CONTRACTOR VEHICLES OUTSIDE OF EXISTING PAVEMENT.

LIMITS OF CONSTRUCTION, EROSION CONTROL AND TREE REMOVAL PLAN
 IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+27.40
 STRUCTURE NO. 050-0239/050-W004

DESIGNED BY MSW	<p>Farnsworth GROUP 2700 McAndrew Drive Bloomington, Illinois 61704 309/833-6436, 309/833-1871 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 28 OF 106

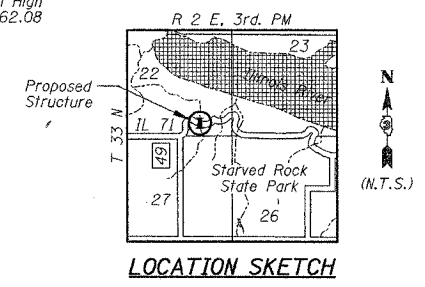
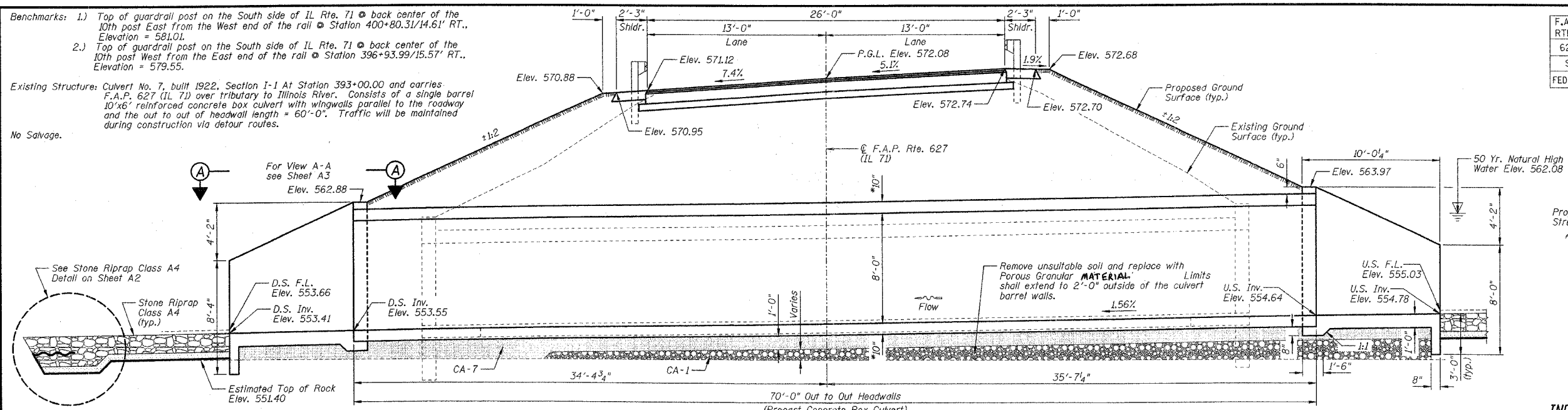
Benchmarks: 1.) Top of guardrail post on the South side of IL Rte. 71 @ back center of the 10th post East from the West end of the rail @ Station 400+80.31/14.61' RT., Elevation = 581.01.
 2.) Top of guardrail post on the South side of IL Rte. 71 @ back center of the 10th post West from the East end of the rail @ Station 396+93.99/15.57' RT., Elevation = 579.55.

Existing Structure: Culvert No. 7, built 1922, Section I-1 At Station 393+00.00 and carries F.A.P. 627 (IL 71) over tributary to Illinois River. Consists of a single barrel 10'x6' reinforced concrete box culvert with wingwalls parallel to the roadway and the out to out of headwall length = 60'-0". Traffic will be maintained during construction via detour routes.

No Salvage.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	29
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. A1
OF 6 SHEETS



INDEX TO SHEETS

SHEET NO.	TITLE
A1	GENERAL PLAN AND ELEVATION
A2	10'x8' PRECAST CONCRETE BOX CULVERT SECTION, DETAILS, GENERAL NOTES AND BILL OF MATERIALS
A3	CAST-IN-PLACE APRON VIEW, ELEVATION, SECTIONS AND DETAILS
A4-A5	SOIL BORING LOGS
A6	EXISTING PLANS

HORIZONTAL CURVE DATA

P.I. STA. = 393+07.74
 Δ = 39°22'
 D = 09°21'
 R = 612.82'
 T = 219.19'
 L = 421.01'
 E = 38.02'
 S.E. = 0.074'/ft. & 0.051'/ft.
 P.C. STA. = 390+88.55
 P.T. STA. = 395+09.56

DESIGN SPECIFICATIONS

AASHTO 2002
LOADING HS20-44
 Allow 50#/sq. ft. for future wearing surface.

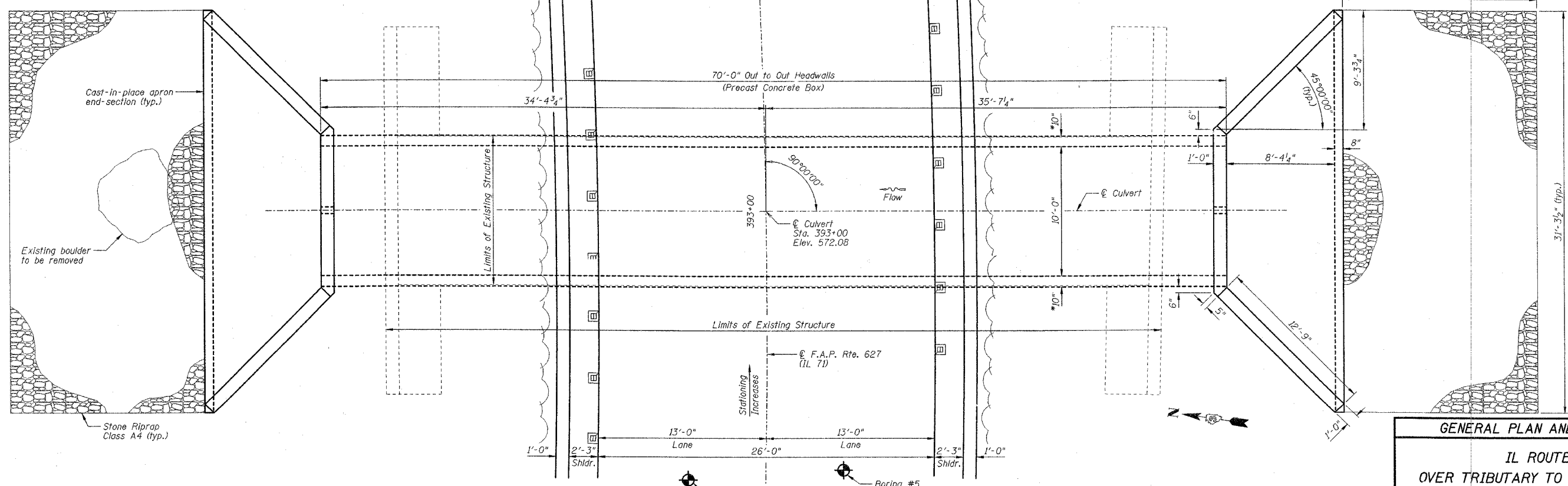
DESIGN STRESSES

FIELD UNITS
 f'c = 3,500 psi (Cast-in-Place)
 fy = 60,000 psi (Reinforcement)

PRECAST UNITS
 f'c = 5,000 psi (Precast Concrete)
 fy = 65,000 psi (Welded Wire Fabric)

LONGITUDINAL SECTION

(Looking East @ C of Culvert)



GENERAL PLAN AND ELEVATION

IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 393+00.00

DESIGNED BY J.M.L.
 DRAWN BY D.J.M.
 CHECKED BY M.S.W.

Farnsworth GROUP
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/663-3436, 309/663-1671 fax

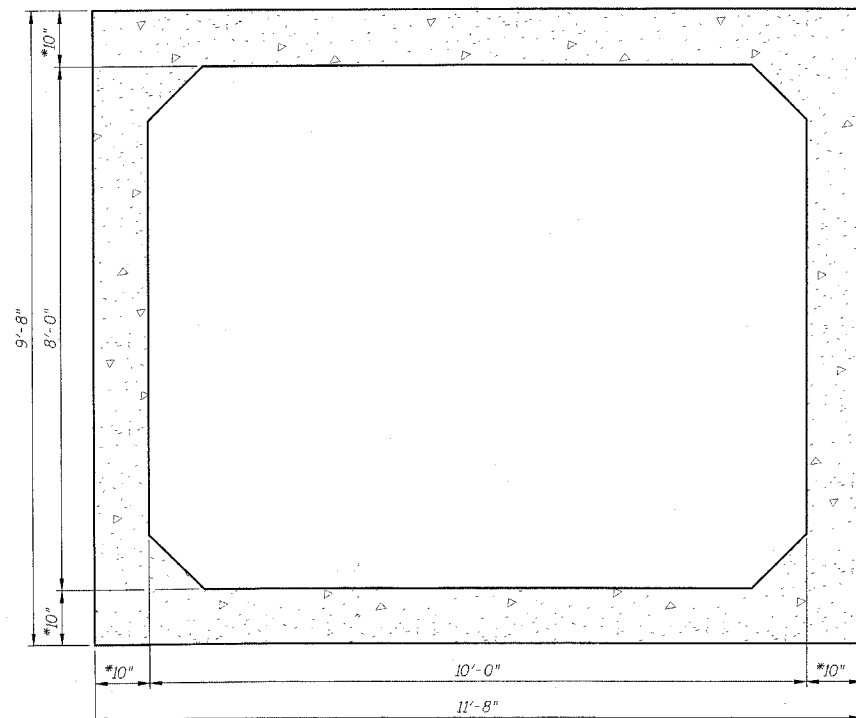
FILE NO. 24-6772
 DATE 05-12-06
 SHEET NO. 29 OF 106

- NOTES:
- 1.) Work this sheet with Sheets A2 and A3.
 - 2.) *Confirm slab and wall thickness with precaster.
 - 3.) P.G.L. denotes Profile Grade Line.

PLAN

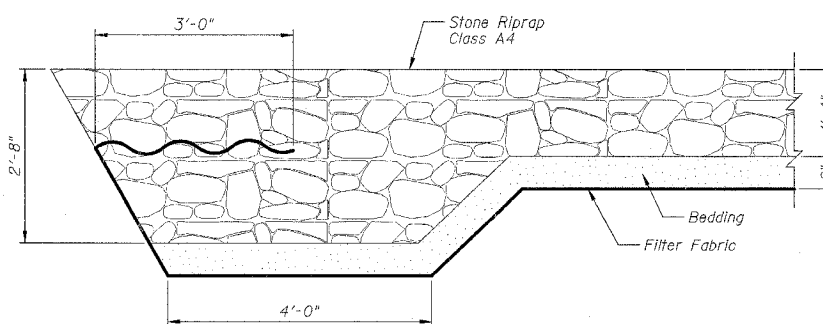
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	30
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. A2
OF 6 SHEETS



SECTION THRU BARREL

*Confirm slab & wall thickness with precaster.

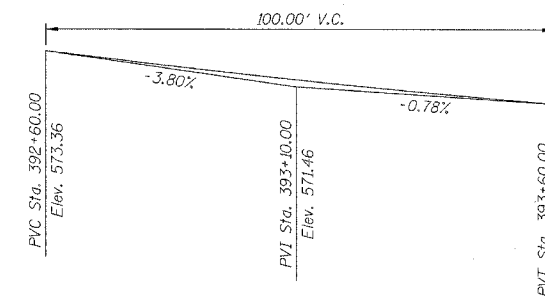


CLASS A4 STONE RIPRAP DETAIL

WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 0.53 Existing Low Grade Elevation = 570.97 ft. @ Sta. 394+00
Proposed Low Grade Elevation = 570.97 ft. @ Sta. 394+00

Flood Year	Freq. C.F.S.	Opening (Sq. Ft.)		H.W.E.		Head-Ft.		Headwater El.		
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	509	30	33	558.34	558.34	4.04	3.74	562.38	562.08
Base	100	590	32	35	558.51	558.51	5.14	4.30	563.65	562.81
Overlapping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	787	35	38	558.82	558.82	7.66	5.64	566.48	564.46



PROFILE GRADE

F.A.P. Rte. 627 (IL 71) (Along E. Roadway)

GENERAL NOTES:

- Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
- Cast-in-place concrete exposed edges shall be beveled 3/4 in.
- Class SI concrete shall be used throughout.
- Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- Reinforcement bars denoted (E) shall be epoxy coated.
- It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Structures."
- See Sheets A4 and A5 for soil boring data.
- Structural seal does not include design of precast elements.
- The precast concrete culvert sections shall be designed and manufactured in accordance with AASHTO M259 (ASTM C783).
- For backfilling and embankment, see Standard Specifications.
- End of precast section shd not have a bell or spigot.
- The apron end sections shown shall be cast-in-place.
- The pay item "Removal and Disposal of Unsuitable Material" shall include the excavation of unsuitable material to the top of the existing rock at Elevation +551.40 for a width of approximately 15'-8" within the limits of the proposed cast-in-place end-section as shown. If the distance between the 1'-0" of CA-7 and the top of the existing rock is less than 6", CA-7 should be placed instead of CA-1. The actual amount shall be determined in the field by the Engineer.
- The pay item "Porous Granular MATERIAL" shall include the placement of the CA-1 and CA-7 as shown in the Elevation View. The width for the "Porous Granular MATERIAL" shall be approximately 15'-8" wide under the culvert. The "Porous Granular MATERIAL" shall be within the limits of the toe wall as shown under the proposed cast-in-place apron end-section. The actual amount shall be determined in the field by the Engineer.
- Contractor to confirm all precast culvert dimensions with the supplier before starting construction.
- The cost of removing the existing boulder (downstream end) to facilitate the construction of the proposed cast-in-place concrete apron end-section is included with "Stone Riprap, Class A4".
- The existing plans are provided for informational use only.

TOTAL BILL OF MATERIALS

ITEMS	UNITS	TOTAL
Removal & Disposal of Unsuitable Material	Cu Yd	88
Porous Granular MATERIAL	Cu Yd	88
Stone Riprap, Class A4	Sq Yd	105
Filter Fabric	Sq Yd	105
Removal of Existing Structures No. 1	Each	1
Rock Excavation for Structures	Cu Yd	1.0
Reinforcement Bars	Pound	3130
Reinforcement Bars Epoxy Coated	Pound	700
Concrete Structures	Cu Yd	35.0
Precast Concrete Box Culvert 10'x8'	Foot	70

NOTE:

Work this sheet with Sheets A1 and A3.

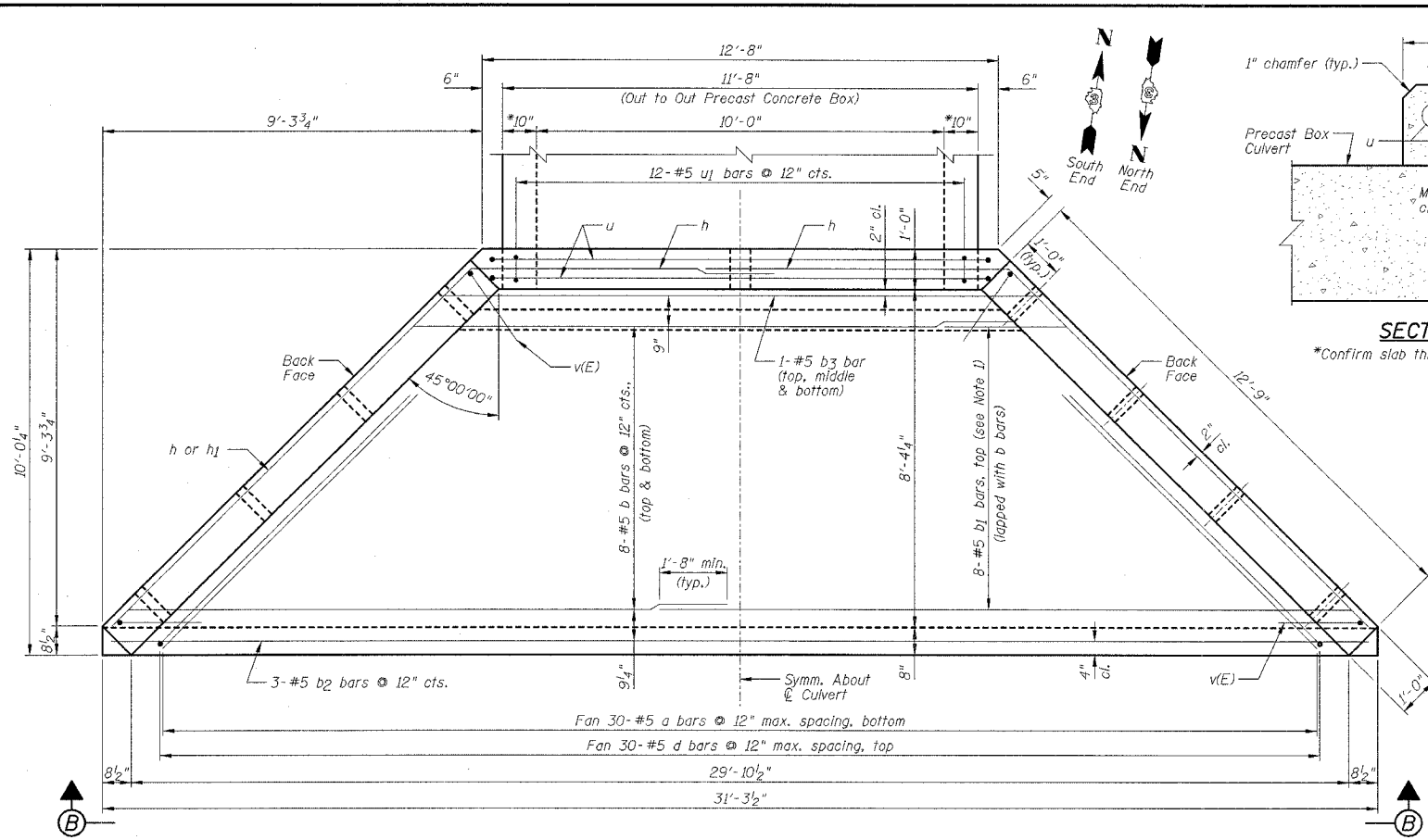
**10'x8' PRECAST CONCRETE BOX CULVERT
SECTION, DETAILS, GENERAL NOTES
AND BILL OF MATERIALS**

**IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 393+00.00**

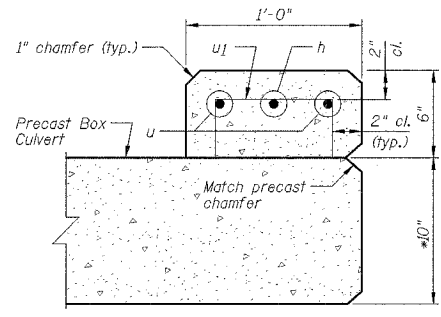
DESIGNED BY J.M.L.	<p>3700 McGraw Drive Bloomington, Illinois 61704 309/883-9432, 309/883-6711 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 30 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	31
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

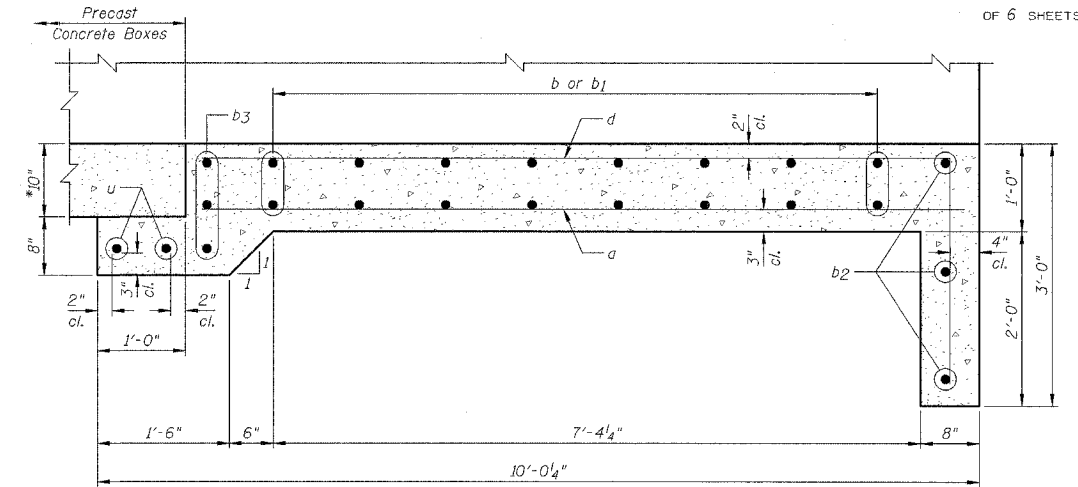
SHEET NO. A3
OF 6 SHEETS



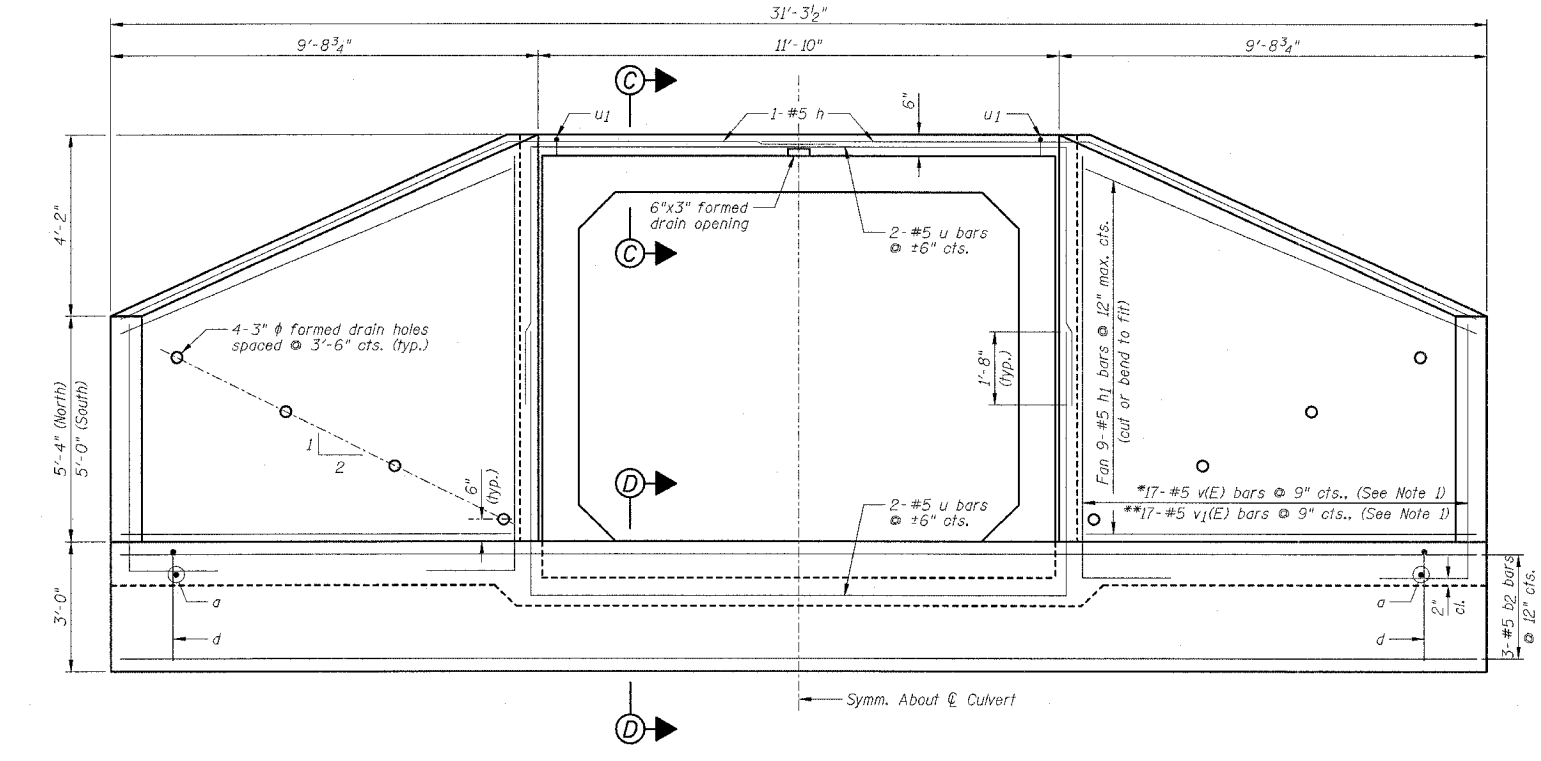
VIEW A-A
*Confirm wall thickness with precaster



SECTION C-C
*Confirm slab thickness with precaster

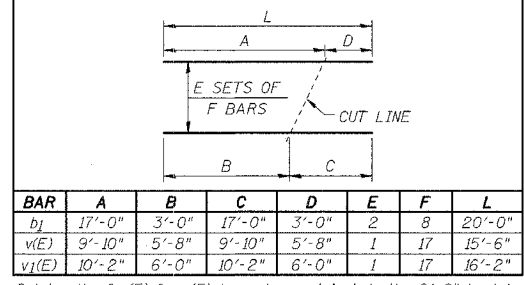


SECTION D-D
*Confirm slab thickness with precaster

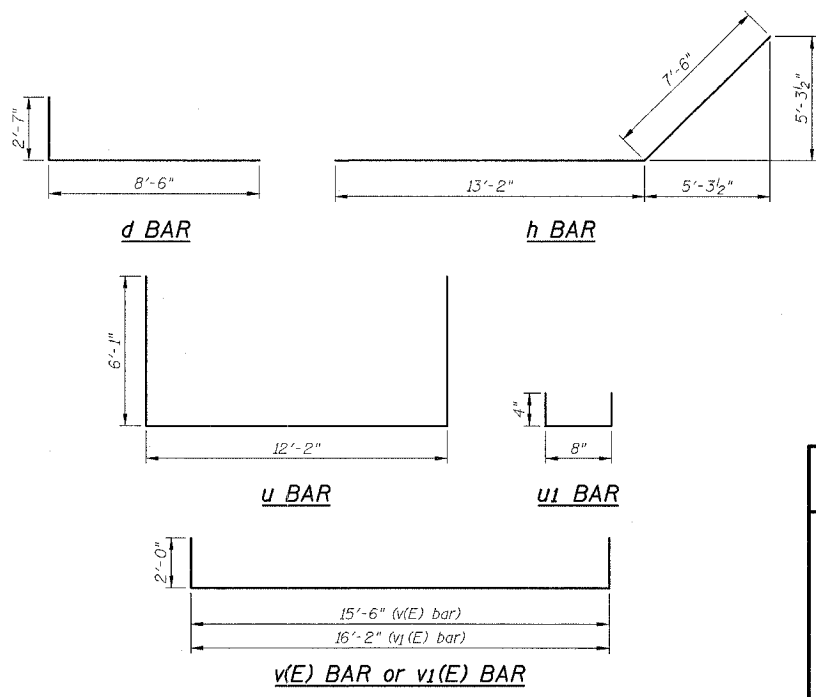


END ELEVATION (VIEW B-B)
*South wingwall vertical bars (v(E) bars)
**North wingwall vertical bars (v1(E) bars)

BAR CUTTING DIAGRAMS



Cut length of v(E) & v1(E) bars does not include the 2'-0" bent legs.



BILL OF MATERIALS

Bar	No.	Size	Length	Shape
a	60	#5	8'-7"	—
b	32	#5	14'-8"	—
b1	16	#5	20'-0"	—
b2	6	#5	30'-9"	—
b3	6	#5	14'-6"	—
d	60	#5	11'-1"	└
h	4	#5	20'-8"	└
h1	36	#5	12'-6"	—
u	8	#5	24'-4"	└
u1	24	#5	1'-4"	└
v(E)	17	#5	19'-6"	L J
v1(E)	17	#5	20'-2"	L J
Item	Unit	Quantity		
Reinforcement Bars	Pound	3130		
Reinforcement Bars	Pound	700		
Epoxy Coated	Pound	700		
Concrete Structures	Cu Yd	35.0		

NOTES:

- Order b1, v(E) & v1(E) bars full length. Cut according to Bar Cutting Diagram. Use remainder of b1 bars in bottom of slab & remainder of v(E) or v1(E) in opposite wingwall (see View B-B for v(E) or v1(E) bar locations).
- Work this sheet with Sheets A1 & A2.
- For location of View A-A see Sheet A1.
- Minimum bar lap: #5 = 1'-8"

CAST-IN-PLACE APRON VIEW, ELEVATION, SECTIONS AND DETAILS

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 393+00.00

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
2706 McGraw Drive
Moline, Illinois 61704
302/853-2425, 302/853-1571 fax

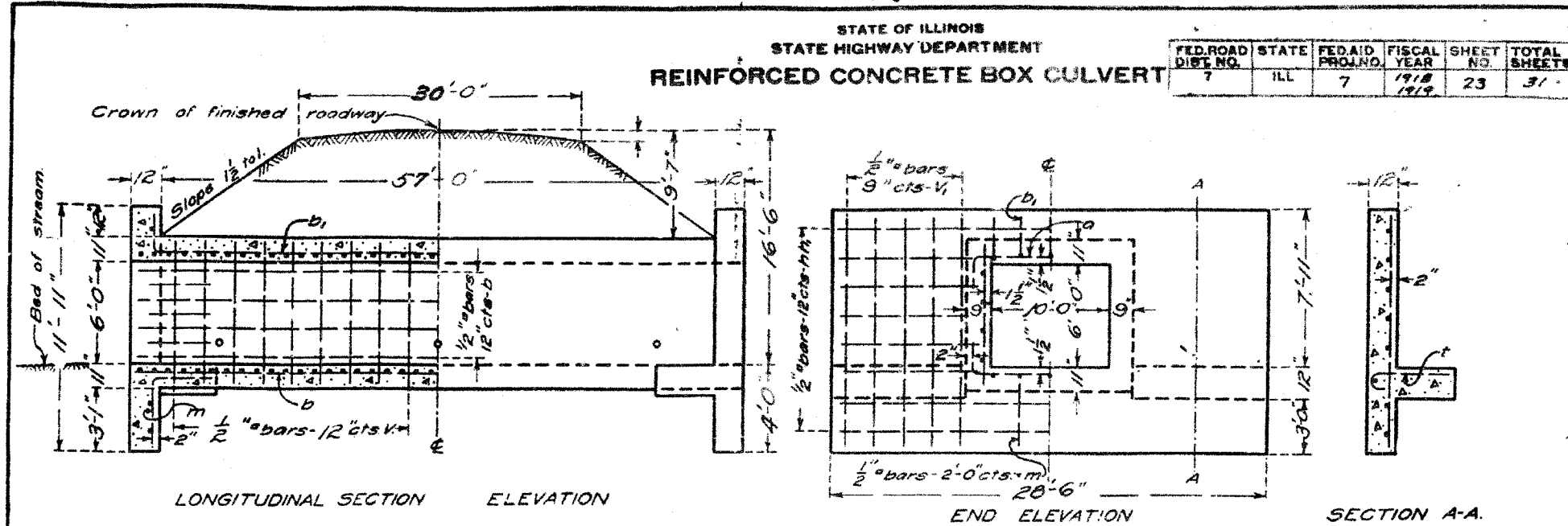
FILE NO: 24-6772
DATE: 05-12-06
SHEET NO: 31 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	34
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. A6
OF 6 SHEETS

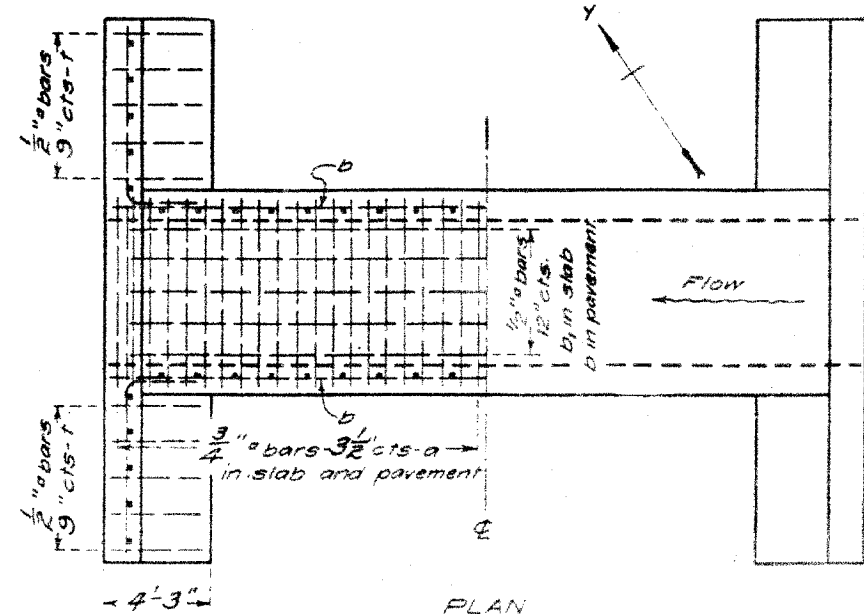
STATE OF ILLINOIS
STATE HIGHWAY DEPARTMENT
REINFORCED CONCRETE BOX CULVERT

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
7	ILL	7	1918 1919	23	31

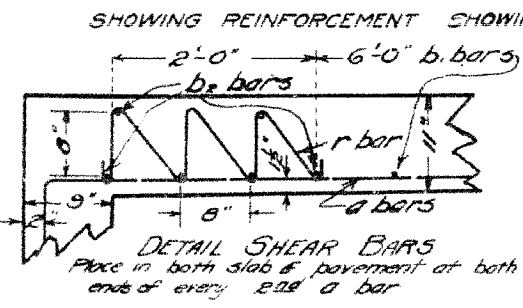


LONGITUDINAL SECTION ELEVATION

END ELEVATION SECTION A-A



PLAN SHOWING REINFORCEMENT SHOWING OUTLINES.



DETAIL SHEAR BARS
Place in both slab & pavement at both ends of every 2'-0" bar

Elev. Crown = 183.60
B.M. # 30 Highest point E side
N.H. Boulder 50' E Sta. 394+40

STA 393+80
FEDERAL AID
PROJECT 7 SECTION I
MORRIS HENRY ROAD
LA SALLE CO.

BILL OF MATERIAL.

Bars	No.	Size	Length
v	116	1/2"	7'-9"
v ₁	48	1/2"	11'-9"
h	28	1/2"	10'-0"
m	20	1/2"	15'-6"
a	396	3/4"	13'-6"
b	45	1/2"	21'-0"
b ₁	15	1/2"	21'-6"
b ₂	72	3/4"	21'-0"
t	48	1/2"	4'-9"
m	5	1/2"	5'-6"
r	396	3/4"	5'-6"
Steel-Lbs			15040
Concrete - Cu Yds			885

Class A concrete to be used throughout. Proportions-1:2 1/2:4.
Use "m" bars in downstream headwall only.

FOR INFORMATIONAL
USE ONLY

DESIGNED BY	J.M.L.
DRAWN BY	D.J.M.
CHECKED BY	M.S.W.
EXAMINED	[Signature]
CHECKED	[Signature]
APPROVED	[Signature]

Revised 11-11-19
[Signature]
ENGINEER OF DESIGN.

SBI RT 7-A

663

EXISTING PLANS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 393+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	35
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. F1
OF 14 SHEETS

Benchmarks: 1.) Top of guardrail post on the South side of IL Rte. 71 @ back center of 10th post East from the West end of the rail @ Station 414+12.06/14.26' RT., Elevation = 579.06.
2.) Bolt on backside of wood end post of guardrail on the North side of IL Rte. 71 approximately 8' West from end of guardrail @ Station 417+35.07/13.66' LT., Elevation = 570.33.
Existing Structure: Existing Culvert #10, built 1922. Section I-1 At Station 416+44.62 and carries F.A.P. 627 (IL 71) over tributary to Illinois River. Consists of a single barrel 12'x6' reinforced concrete box culvert with wingwalls parallel to the roadway and the out to out of headwall length = 74'-4". Traffic will be maintained during construction via detour routes.
No Salvage.

DESIGN SPECIFICATIONS

AASHTO 2002

LOADING HS20-44

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

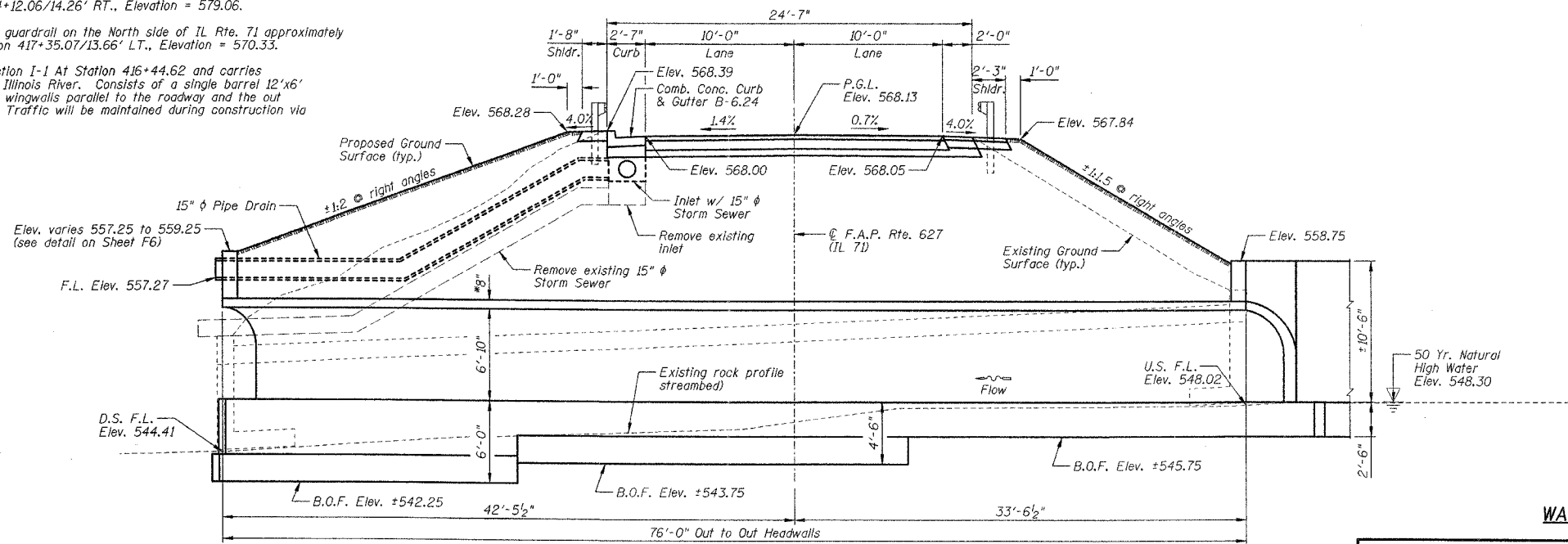
DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Cast-in-Place)
fy = 60,000 psi (Reinforcement)

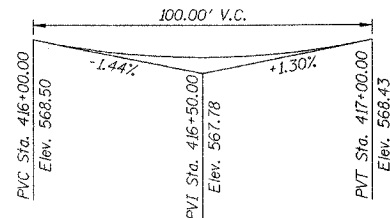
PRECAST UNITS

f'c = 4,000 psi (Precast Concrete)
fy = 60,000 psi (Reinforcement)
fy = 65,000 psi (Welded Wire Fabric)



LONGITUDINAL SECTION

(Looking East @ C of Culvert, roadway dimensions @ right angles to roadway)



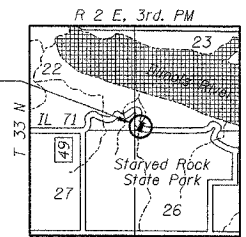
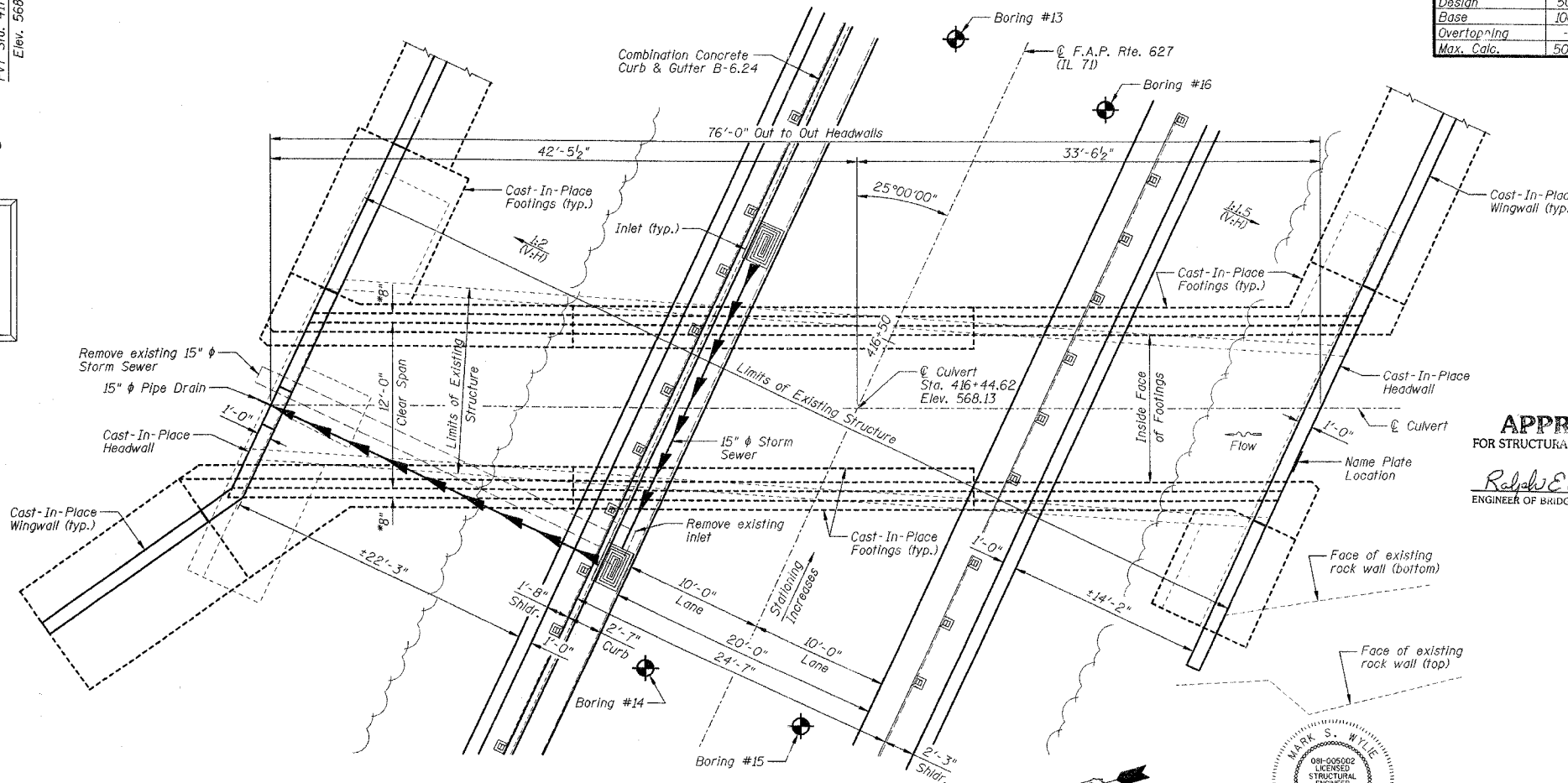
PROFILE GRADE

F.A.P. Rte. 627 (IL 71) (Along C Roadway)

STATION 416+44.62
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 627 SECTION (I-1) BR & I
LOADING HS20
STR. NO. 050-C804

NAME PLATE DETAIL

See Standard 515001



WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 1.04 Existing Low Grade Elevation = 567.97 ft. @ Sta. 416+44.62
Proposed Low Grade Elevation = 568.13 ft. @ Sta. 416+51.97

Flood Year	Freq. C.F.S.	Opening (Sq. Ft.)		Ex. Nat. Pr. Nat. H.W.E.		Head-Ft.		Headwater El.		
		Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	50	665	72	84	548.30	548.30	7.69	7.19	555.99	555.49
Base	100	768	72	84	548.30	548.30	8.84	8.25	557.14	556.55
Overtopping	-	-	-	-	-	-	-	-	-	-
Max. Calc.	500	1015	72	84	548.30	548.30	12.02	11.00	560.32	559.30

INDEX TO SHEETS

SHEET NO.	TITLE
F1	GENERAL PLAN AND ELEVATION
F2	FOOTING LAYOUT PLAN, SECTION THRU PRECAST STRUCTURE, GENERAL NOTES AND BILL OF MATERIALS
F3	TEMPORARY SOIL RETENTION SYSTEM PLAN & ELEVATION, TYPICAL SECTION AND DETAIL
F4	EAST FOOTING REINFORCEMENT PLAN, ELEVATION, SECTIONS AND DETAILS
F5	WEST FOOTING REINFORCEMENT PLAN, ELEVATION, SECTIONS AND DETAILS
F6	CORNER DETAILS
F7	NORTH WINGWALLS
F8	NORTH HEADWALL
F9	SOUTH WINGWALLS
F10	SOUTH HEADWALL
F11	POROUS GRANULAR EMBANKMENT (SPECIAL) AND GEOCOMPOSITE WALL DRAIN
F12-F13	SOIL BORING LOGS
F14	EXISTING PLANS

APPROVED
FOR STRUCTURAL ADEQUACY ONLY
Robert E. Anderson (SE)
ENGINEER OF BRIDGES AND STRUCTURES

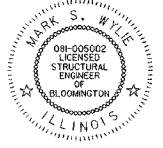
- NOTES:**
- 1.) Work this sheet with Sheets F2 thru F10.
 - 2.) Confirm slab and wall thickness with Precaster.
 - 3.) B.O.F. denotes Bottom Of Footing.
 - 4.) P.G.L. denotes Profile Grade Line.
 - 5.) See Roadway Plans for the new drainage inlets, storm sewer and pipe drain.

GENERAL PLAN AND ELEVATION
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
3709 Wedgway Drive
Bloomington, Illinois 61704
309/843-8438, 309/843-1571 fax

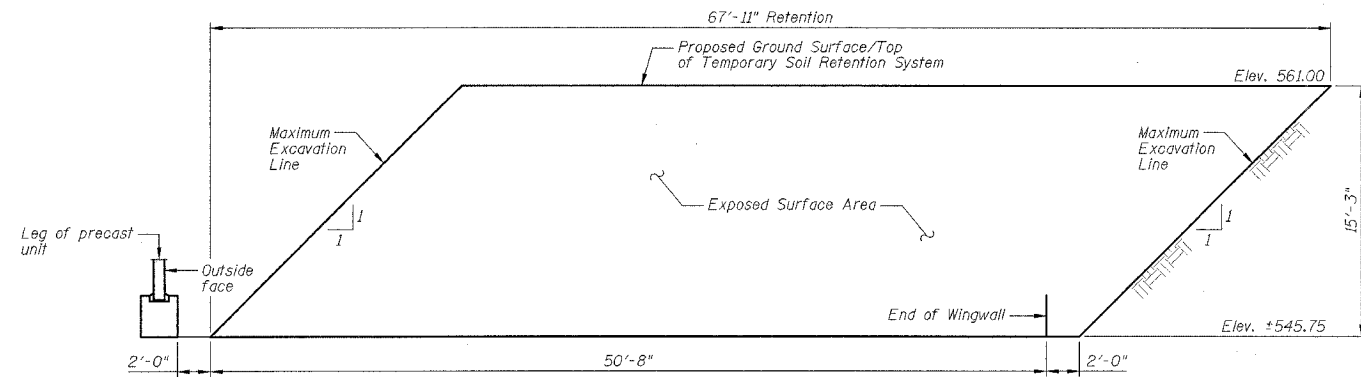
FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 35 of 106



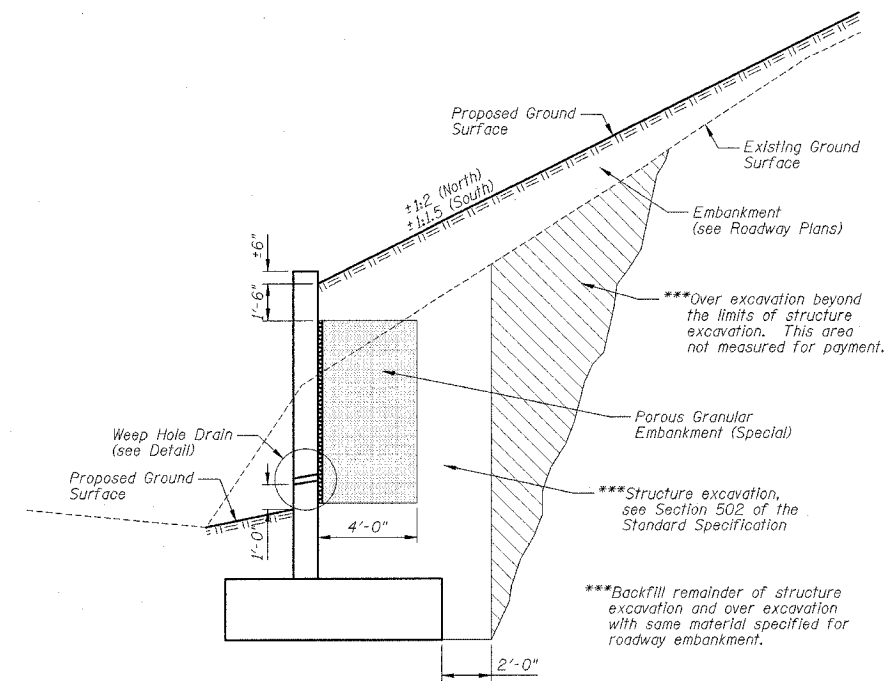
Mark S. Wylie Date 5/15/06
MARK S. WYLIE
ILLINOIS STRUCTURAL ENGINEER
NO. 081-005002
Exp. Date 11/30/06

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	37
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

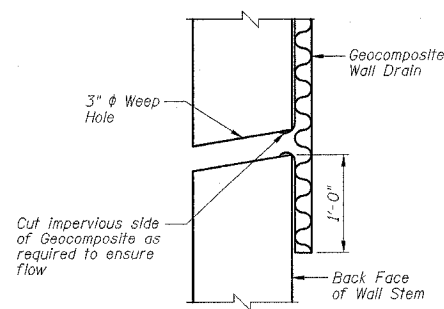
SHEET NO. F3
OF 14 SHEETS



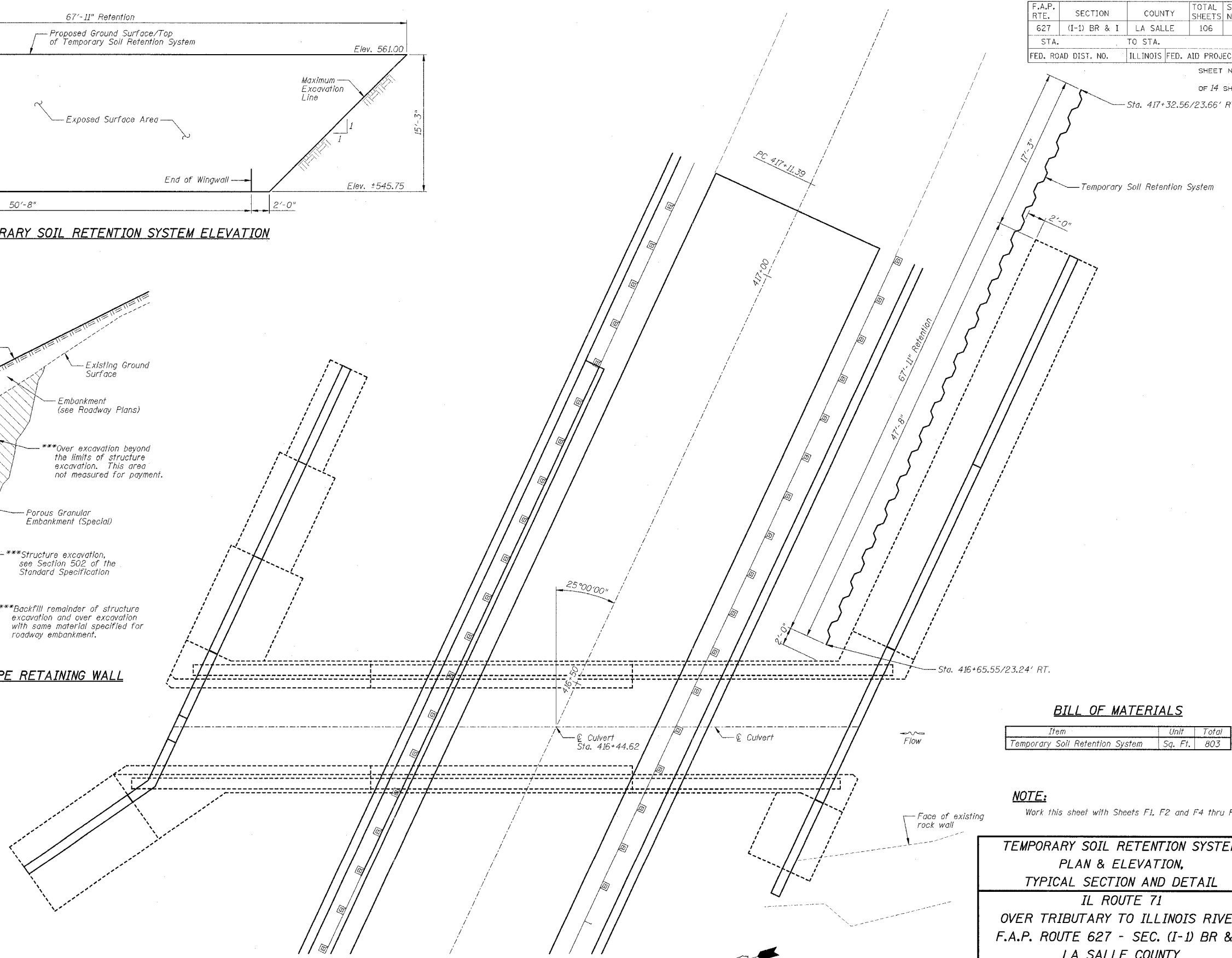
TEMPORARY SOIL RETENTION SYSTEM ELEVATION



TYPICAL SECTION THRU T-TYPE RETAINING WALL



WEEP HOLE DRAIN DETAIL



TEMPORARY SOIL RETENTION SYSTEM PLAN

BILL OF MATERIALS

Item	Unit	Total
Temporary Soil Retention System	Sq. Ft.	803

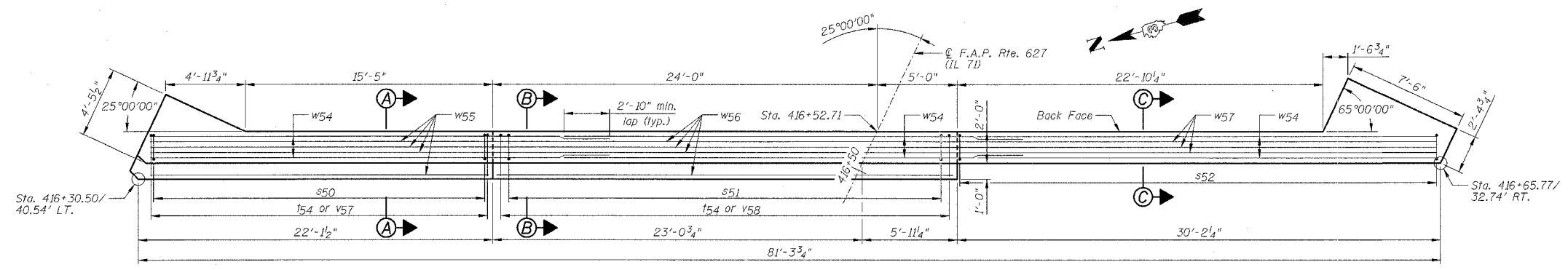
NOTE:
Work this sheet with Sheets F1, F2 and F4 thru F11.

**TEMPORARY SOIL RETENTION SYSTEM
PLAN & ELEVATION,
TYPICAL SECTION AND DETAIL**
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

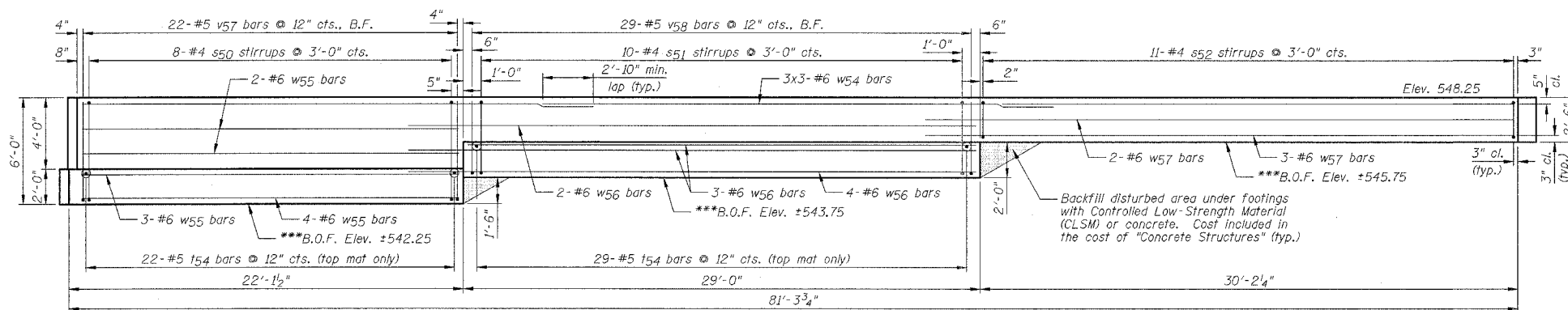
DESIGNED BY J.M.L.	<p>3709 McGraw Drive Bloomington, Illinois 61704 309/883-8435, 309/883-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 37 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	38
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. F4
OF 14 SHEETS



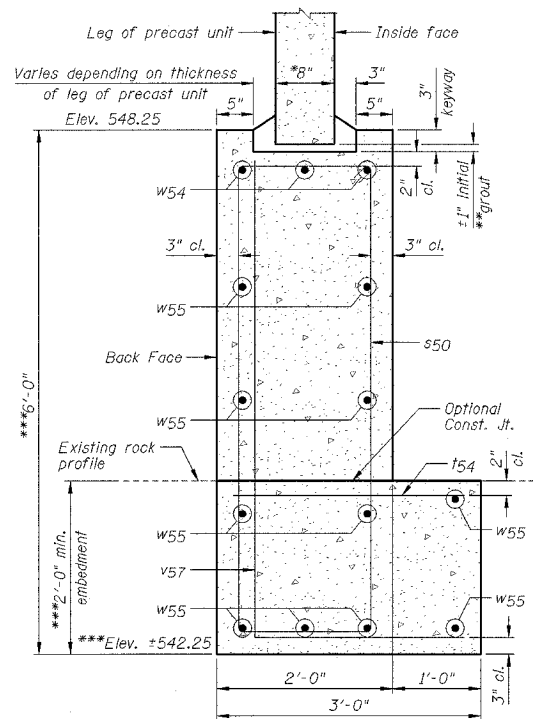
FOOTING REINFORCEMENT LAYOUT PLAN



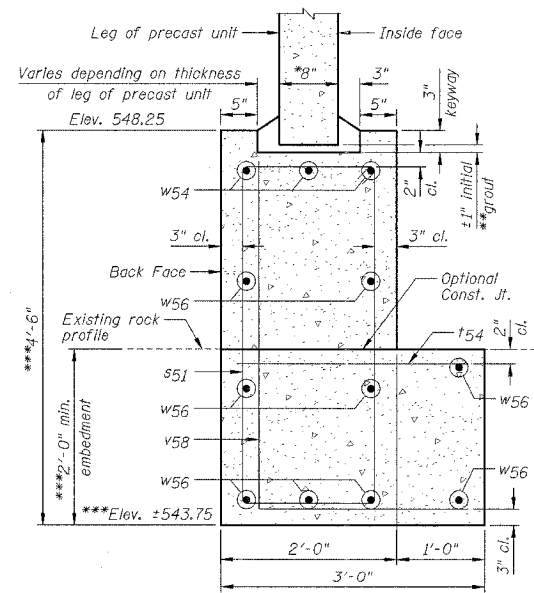
FOOTING ELEVATION - LOOKING EAST

EAST FOOTING
BILL OF MATERIALS

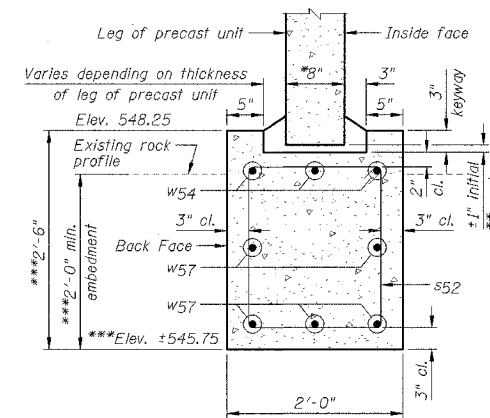
Bar	No.	Size	Length	Shape
s50	8	#4	14'-5"	□
s51	10	#4	11'-5"	□
s52	11	#4	7'-5"	□
t54	51	#5	2'-6"	—
v57	22	#5	7'-10"	—
v58	29	#5	6'-4"	—
w54	9	#6	28'-8"	—
w55	11	#6	21'-2"	—
w56	9	#6	31'-10"	—
w57	5	#6	33'-0"	—
Item	Unit	Quantity		
Rock Excavation for Structures	Cu. Yd.	23		
Concrete Structures	Cu. Yd.	31.8		
Reinforcement Bars	Pound	2130		



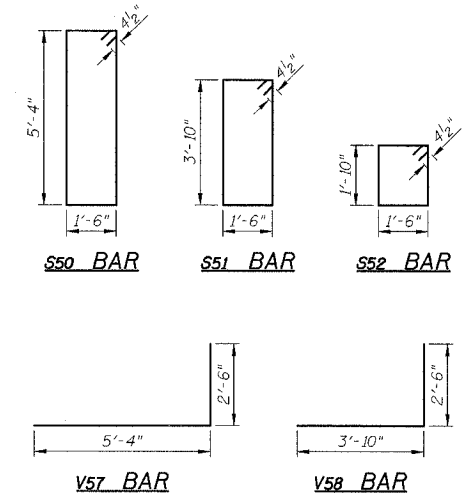
SECTION A-A



SECTION B-B



SECTION C-C



NOTES:

- 1.) Work this sheet with Sheets F1 thru F3 and F5 thru F11.
- 2.) *Confirm thickness with Precaster.
- 3.) **2:1 sand and portland cement, very dry mix.
- 4.) B.O.F. denotes Bottom Of Footing.
- 5.) ***Outside the limits of the existing footings, the new footings shall be set 2'-0" minimum into sound rock. The thickness of the footings shall be increased if required to maintain the embedment. Within the limits of the existing footings, the thickness of the footings shall be increased, if necessary, such that the bottom of the new footings are set 6" below the bottom of the existing footings.
- 6.) w56 bars shall be field cut as required.
- 7.) Calculated Maximum Bearing Pressure = 7.8 ksf

EAST FOOTING REINFORCEMENT PLAN,
ELEVATION, SECTIONS AND DETAILS

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

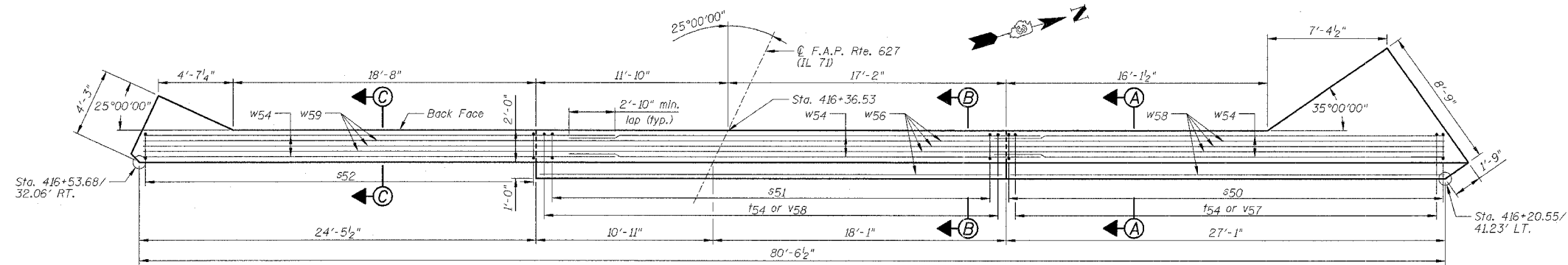
DESIGNED BY J.M.L.
DRAWN BY D.J.M.
CHECKED BY M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
304/883-8436, 304/883-1671 fax

FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 38 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	39
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

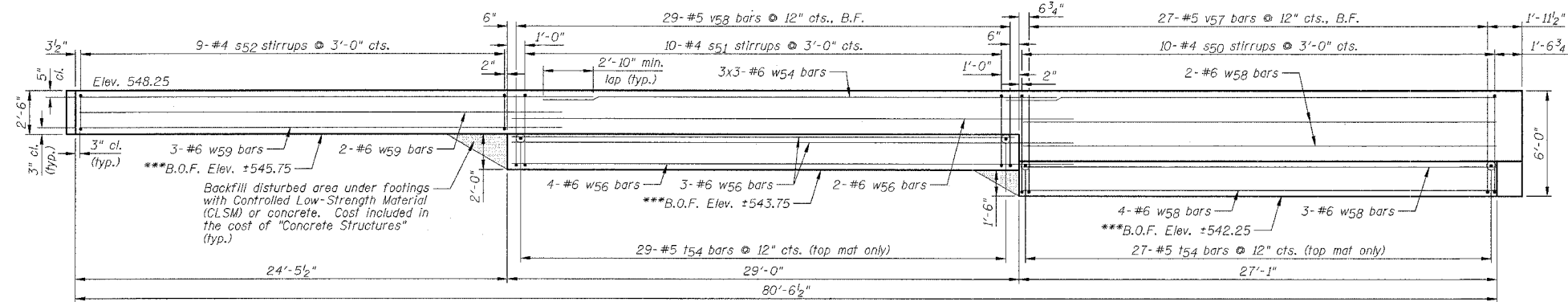
SHEET NO. F5
OF 14 SHEETS



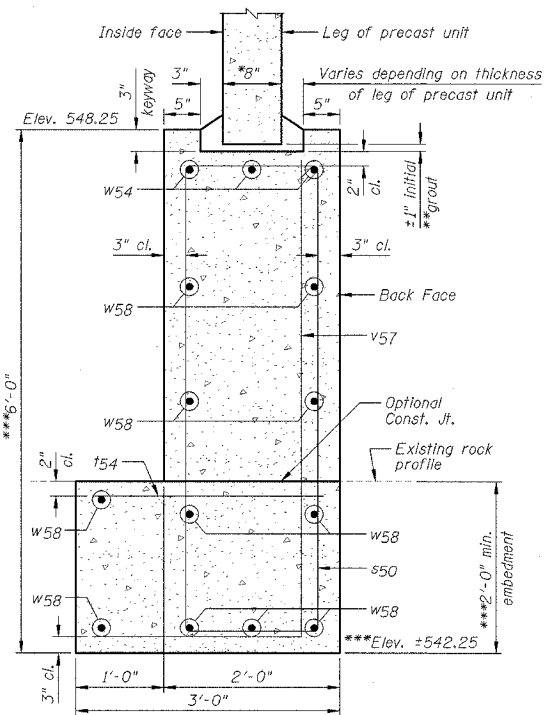
FOOTING REINFORCEMENT LAYOUT PLAN

**WEST FOOTING
BILL OF MATERIALS**

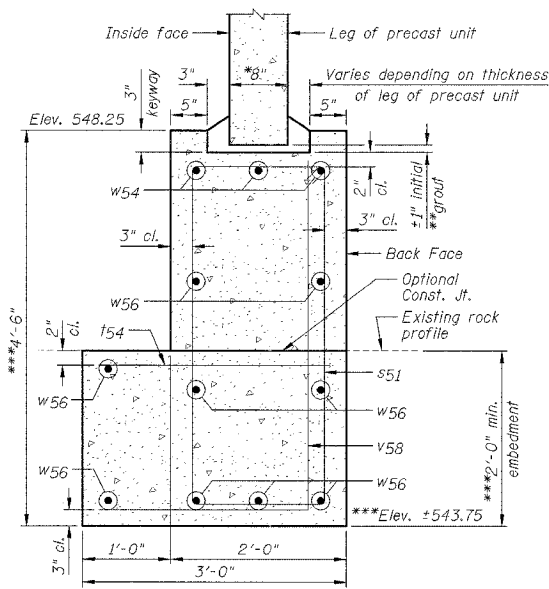
Bar	No.	Size	Length	Shape
s50	10	#4	14'-5"	□
s51	10	#4	11'-5"	□
s52	9	#4	7'-5"	□
t54	56	#5	2'-6"	—
v57	27	#5	7'-10"	—
v58	29	#5	6'-4"	—
w54	9	#6	28'-8"	—
w56	9	#6	31'-10"	—
w58	11	#6	26'-9"	—
w59	5	#6	27'-4"	—
Item	Unit	Quantity		
Rock Excavation for Structures	Cu. Yd.	25		
Concrete Structures	Cu. Yd.	37.6		
Reinforcement Bars	Pound	2240		



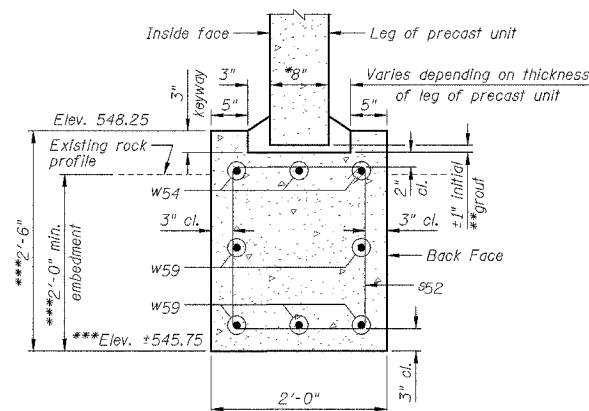
FOOTING ELEVATION - LOOKING WEST



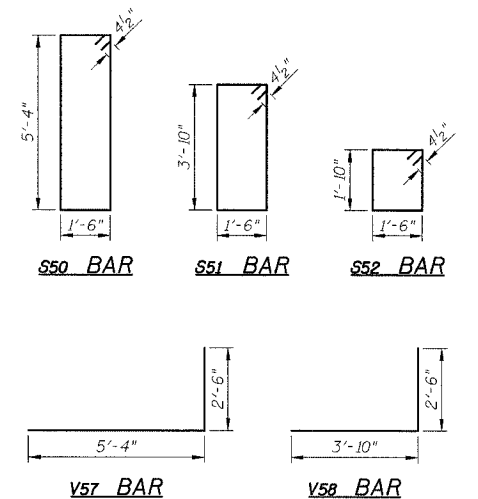
SECTION A-A



SECTION B-B



SECTION C-C



NOTES:

- 1.) Work this sheet with Sheets F1 thru F4 and F6 thru F11.
- 2.) *Confirm thickness with Precaster.
- 3.) **2:1 sand and portland cement, very dry mix.
- 4.) B.O.F. denotes Bottom Of Footing.
- 5.) ***Outside the limits of the existing footings, the new footings shall be set 2'-0" minimum into sound rock. The thickness of the footings shall be increased if required to maintain this embedment. Within the limits of the existing footings, the thickness of the footings shall be increased, if necessary, such that the bottom of the new footings are set 6" below the bottom of the existing footings.
- 6.) w56 bars shall be field cut as required.
- 7.) Calculated Maximum Bearing Pressure = 7.8 ksf

**WEST FOOTING REINFORCEMENT PLAN,
ELEVATION, SECTIONS AND DETAILS**

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

DESIGNED BY
J.M.L.

DRAWN BY
D.J.M.

CHECKED BY
M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
302/552-8638, 302/923-1871 fax

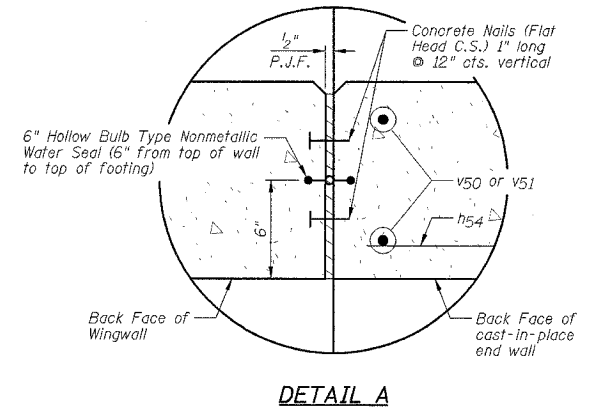
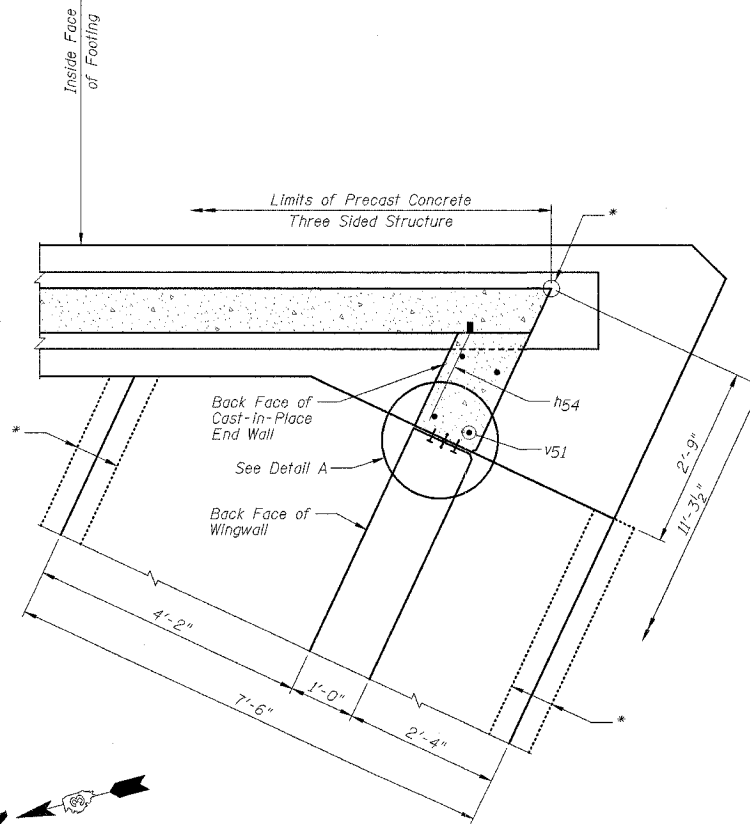
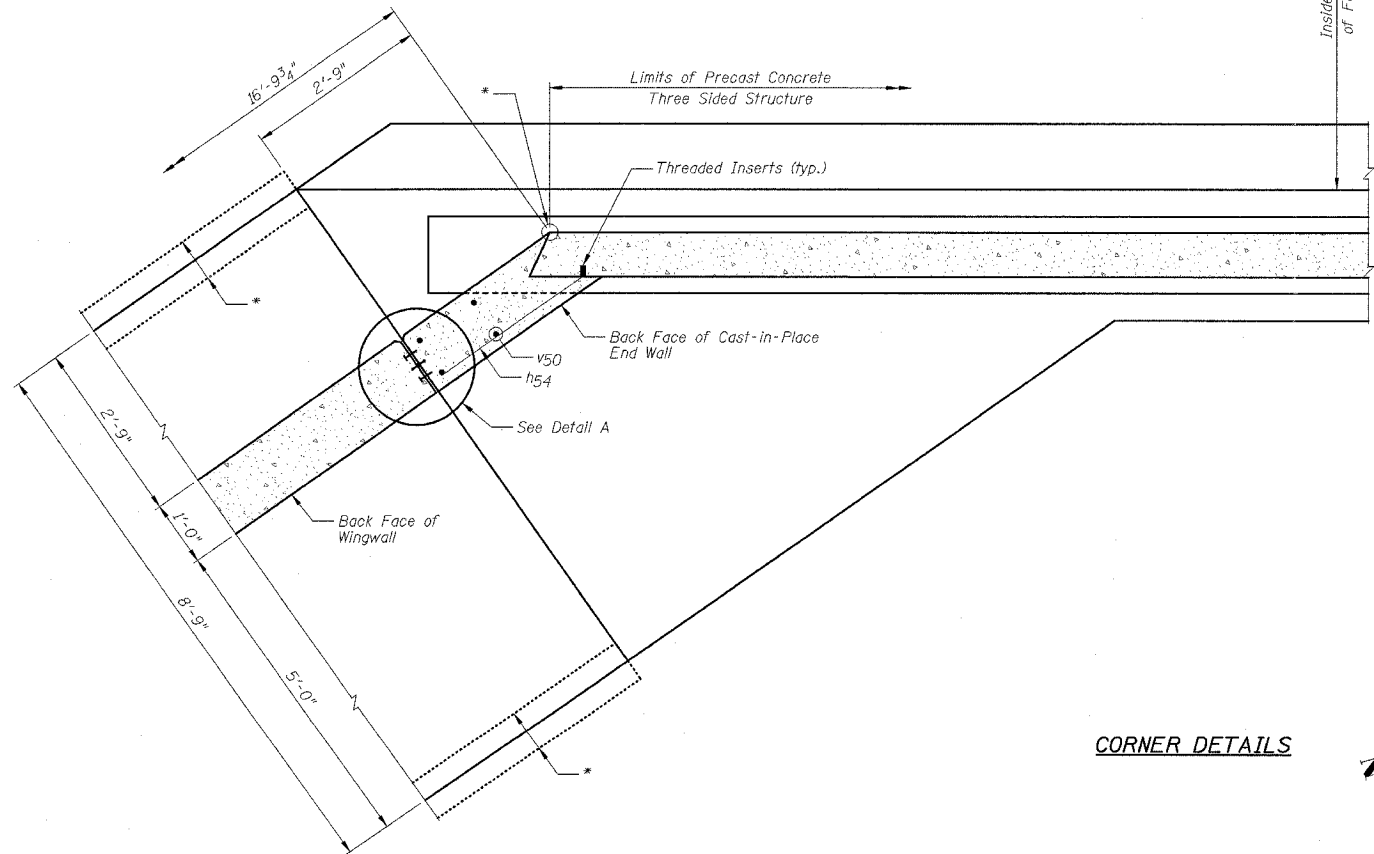
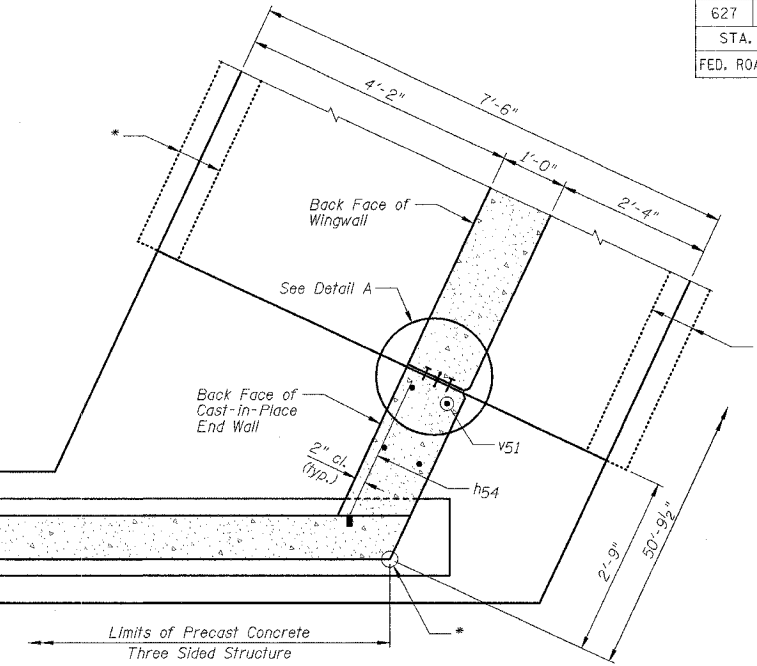
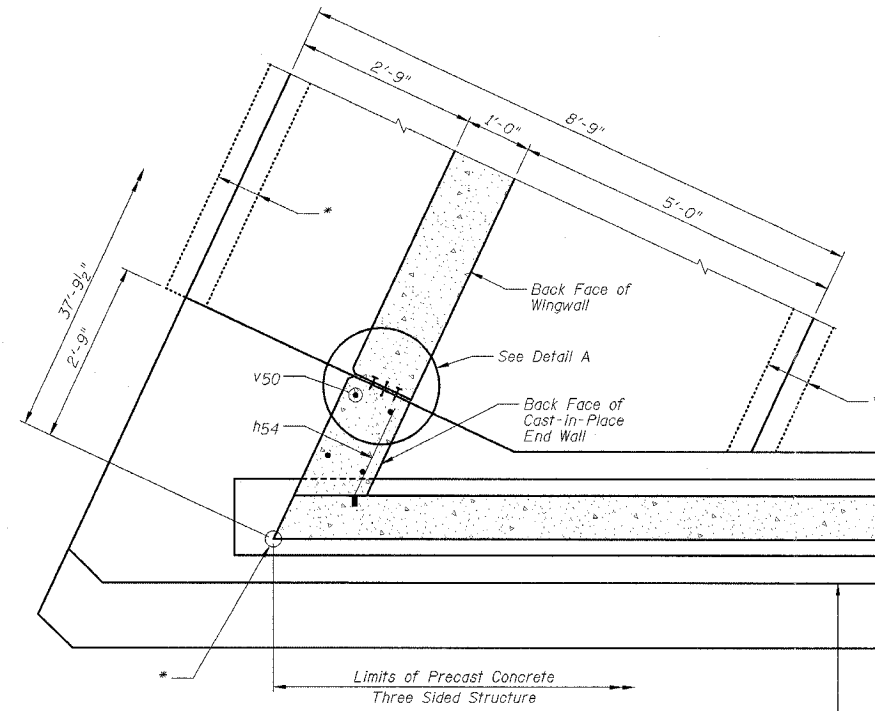
FILE NO.
24-6772

DATE
05-12-06

SHEET NO.
39 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	40
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. F6
OF 14 SHEETS



NOTES:

- 1.) Work this sheet with Sheets F1 thru F5 and F7 thru F11.
- 2.) *The location of the inside corner of the precast leg may vary due to tolerances in the precast segments. The cast-in-place end walls shall be poured with the headwalls after the precast units are in place. The wing footings and wingwalls shall be poured after the headwalls and end walls are in place. A slight adjustment in the placement of the wingwall and its footing may be necessary to align the wingwall with the end wall as shown.
- 3.) All the materials used to fill the joints shall be included in the cost of "Concrete Structures".
- 4.) For h54, v50 & v51 bars and threaded inserts, see Sheets FB & F10.

CORNER DETAILS

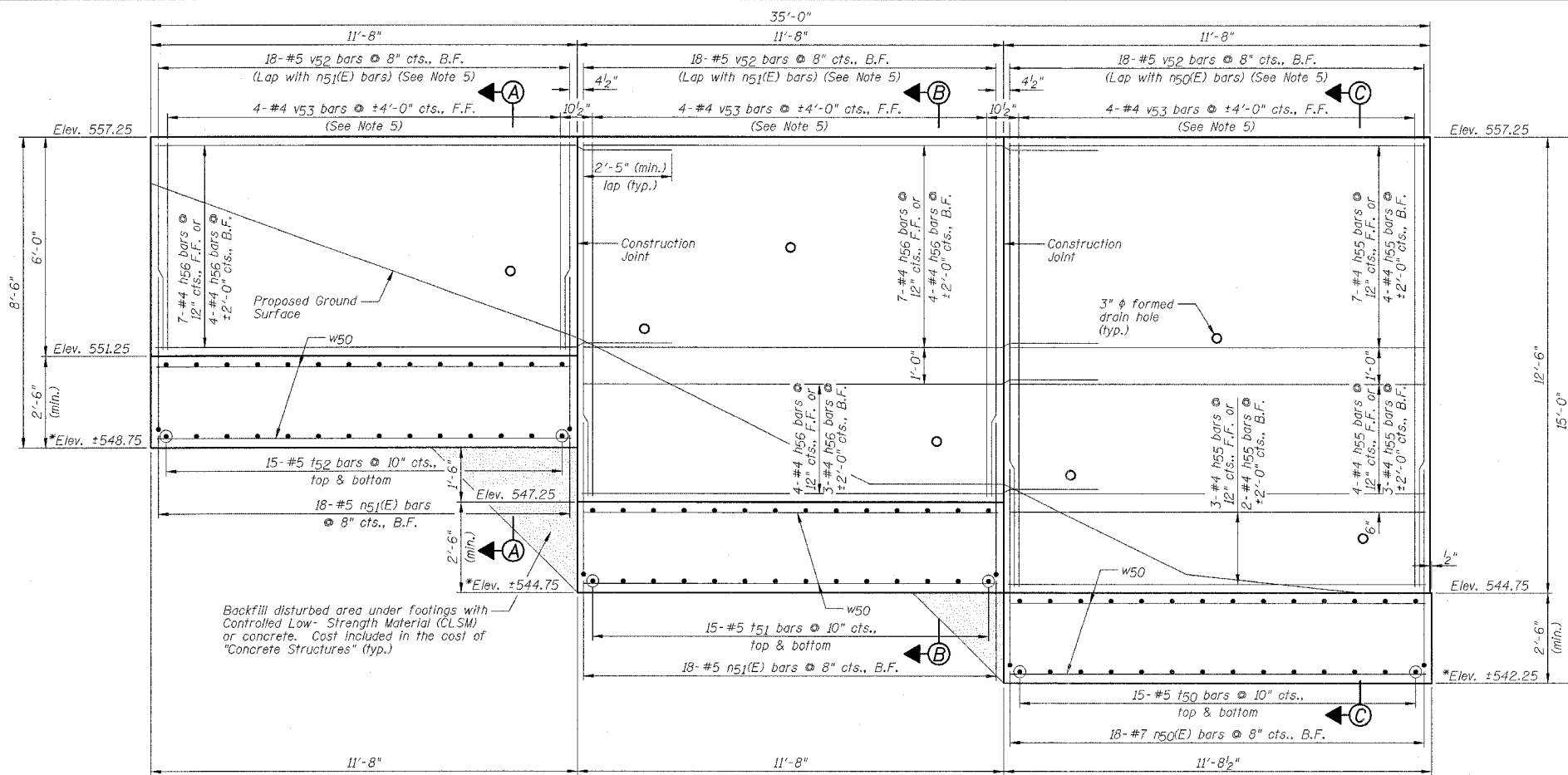


DESIGNED BY J.M.L.	<p>2706 Midway Drive Bloomington, Illinois 61704 309/899-8635, 309/899-9775 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 40 of 106

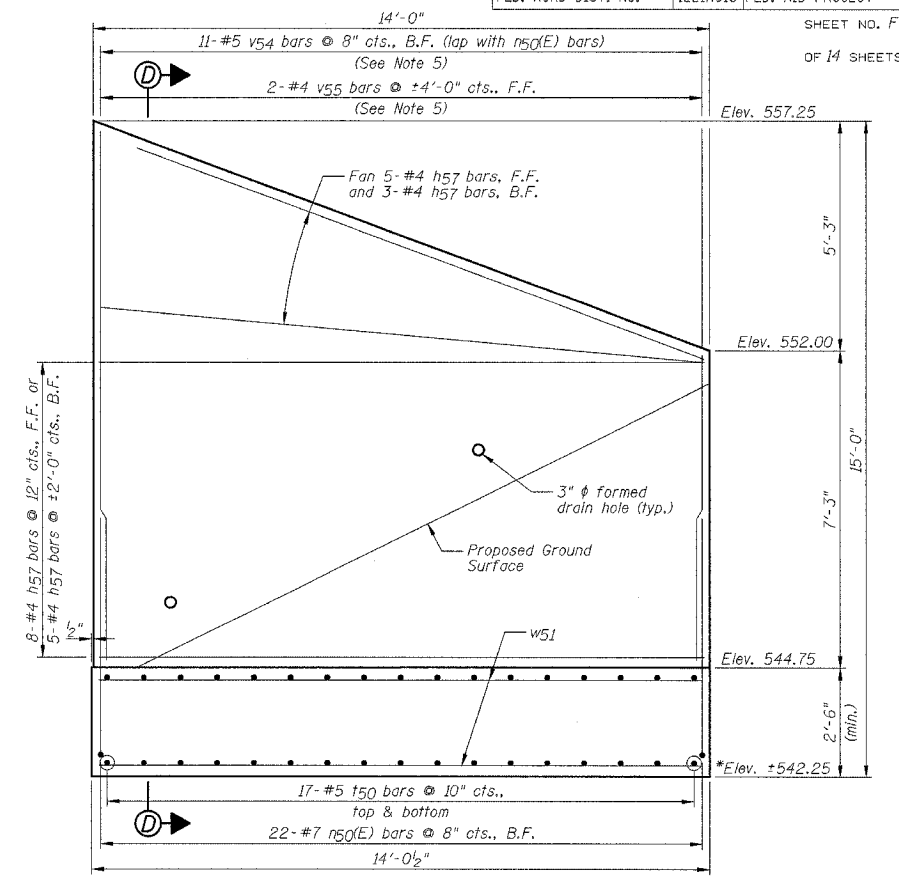
CORNER DETAILS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	41
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

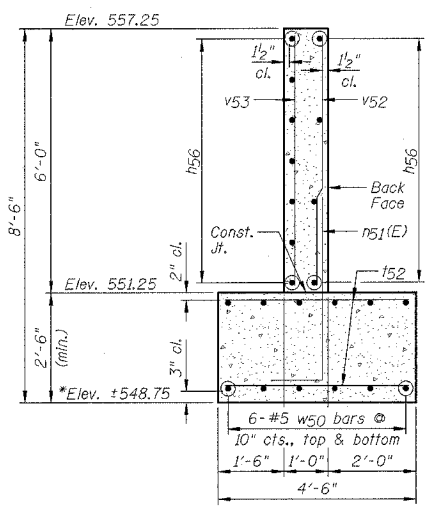
SHEET NO. F7
OF 14 SHEETS



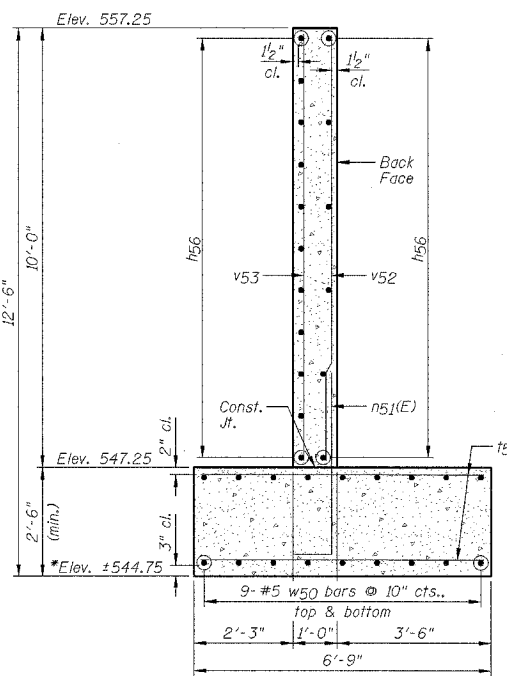
NORTHEAST WINGWALL ELEVATION



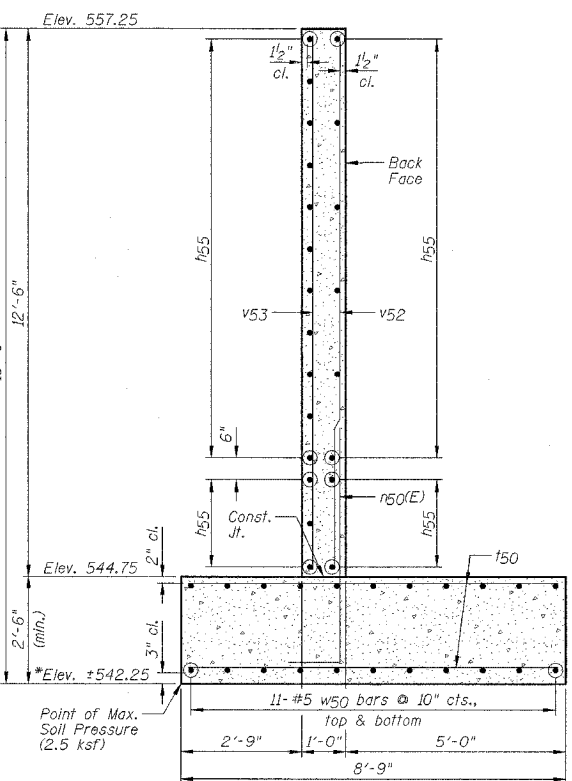
NORTHWEST WINGWALL ELEVATION



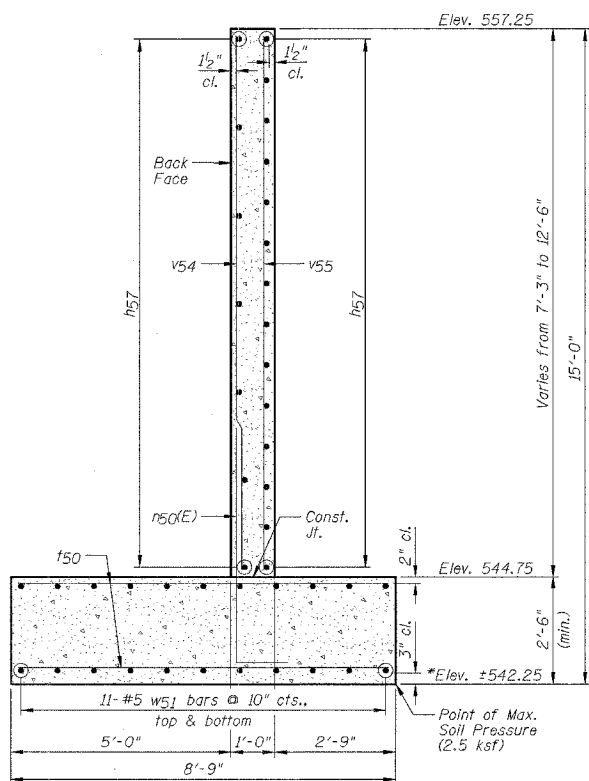
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

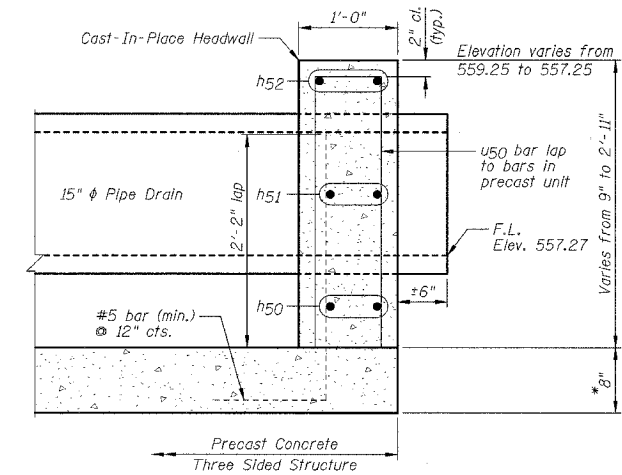
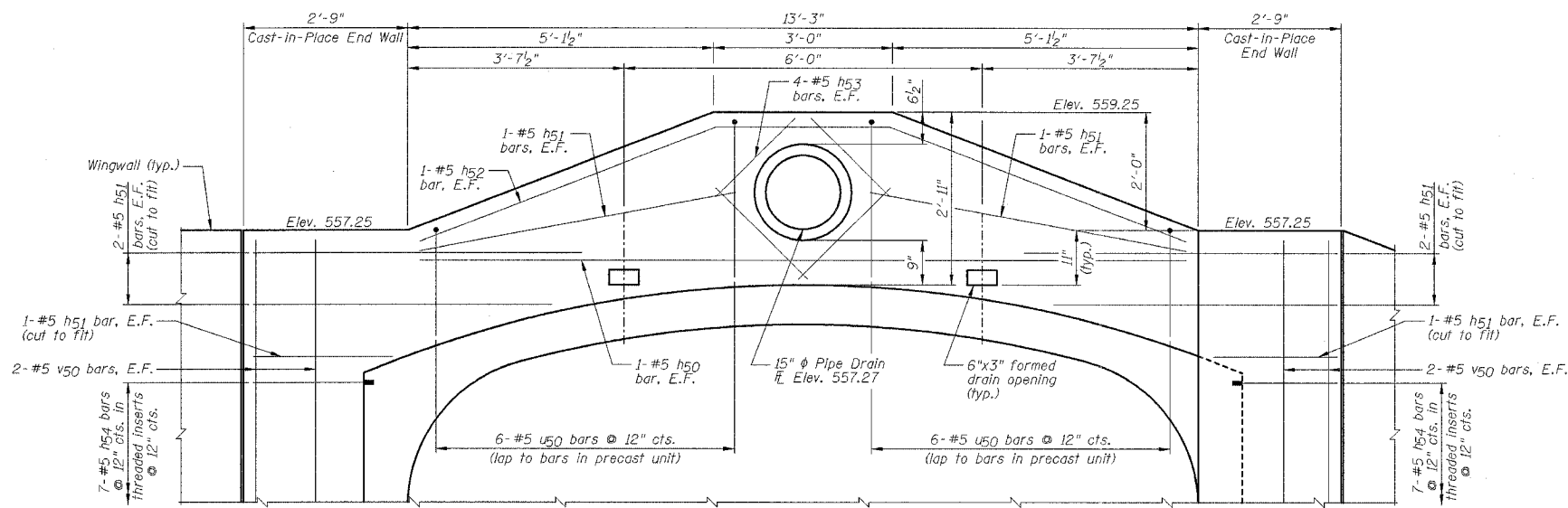
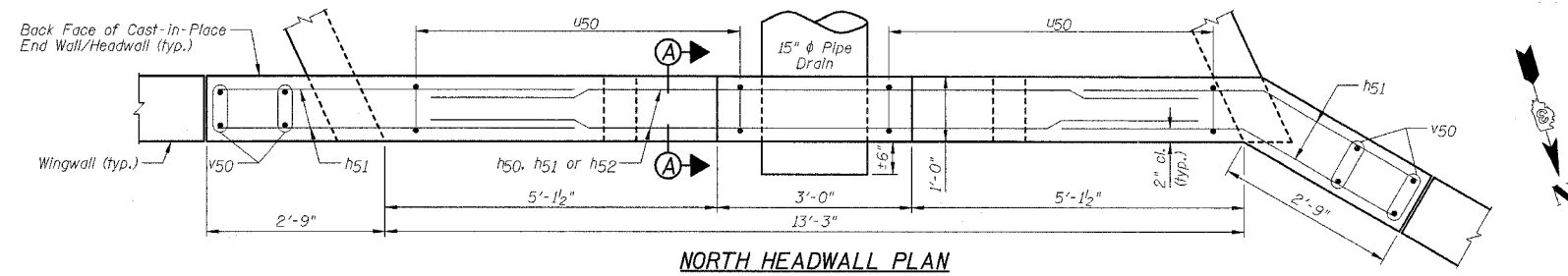
- NOTES:**
- 1) Work this sheet with Sheets F1 thru F6, F8 and F11.
 - 2) See Sheet F8 for Bill of Materials.
 - 3) B.F. denotes Back Face, F.F. & denotes Front Face.
 - 4) The Footings shall be set 2'-0" minimum into sound rock. The thickness of the Footings shall be increased if required to maintain this embedment.
 - 5) Reinforcement bars designated (E) shall be epoxy coated.
 - 6) Order v52, v53, v54 & v55 bars full length. Cut according to Bar Cutting Diagram on Sheet F8. Use remainder of v52, v53, v54 & v55 bars in same face of wingwall.
 - 7) Calculated Maximum Bearing Pressure = 2.5 ksf.

NORTH WINGWALLS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

DESIGNED BY J.M.L.	<p>3709 Midway Drive Mokenagon, Illinois 61704 800/853-8455, 800/383-0971 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 41 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	42
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. F8
OF 14 SHEETS

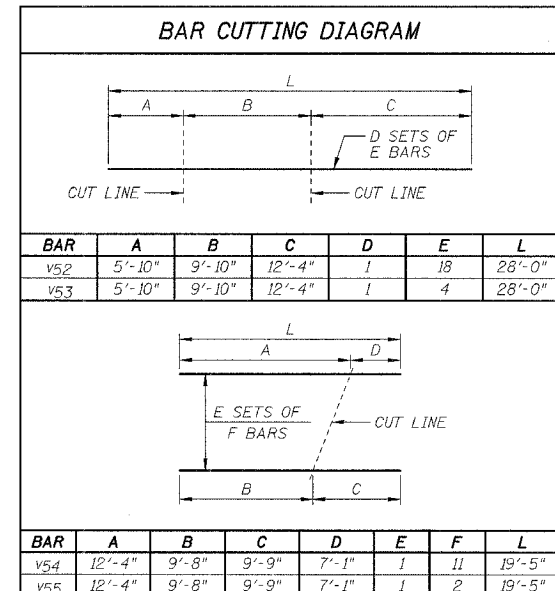
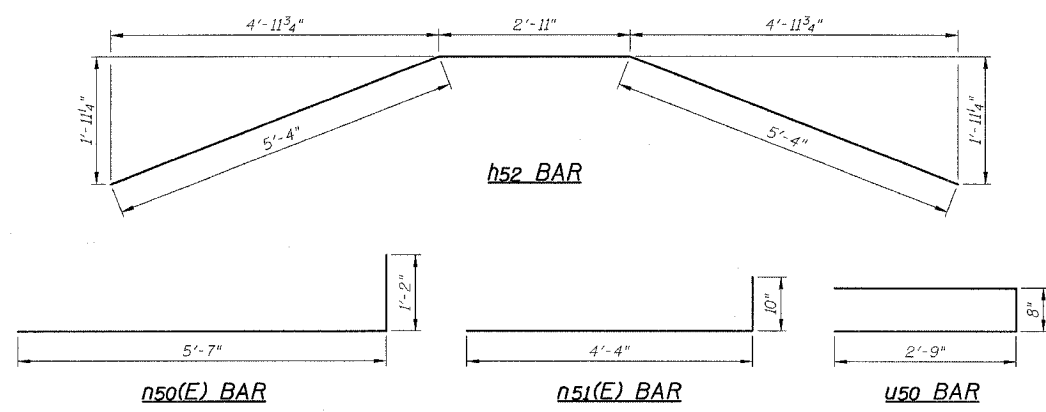


**NORTH HEADWALL & WINGWALLS
BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
h50	2	#5	12'-11"	—
h51	16	#5	5'-6"	—
h52	2	#5	13'-7"	—
h53	8	#5	2'-4"	—
h54	14	#5	3'-0"	—
h55	23	#4	11'-6"	—
h56	29	#4	14'-0"	—
h57	21	#4	13'-8"	—
v50(E)	40	#7	6'-9"	—
v51(E)	36	#5	5'-2"	—
v50	64	#5	8'-5"	—
v51	30	#5	6'-5"	—
v52	30	#5	4'-2"	—
u50	12	#5	6'-2"	—
v50	8	#5	8'-10"	—
v52	18	#5	28'-0"	—
v53	4	#4	28'-0"	—
v54	11	#5	19'-5"	—
v55	2	#4	19'-5"	—
w50	52	#5	11'-4"	—
w51	22	#5	13'-8"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	130		
Rock Excavation for Structures	Cu. Yd.	31		
Concrete Structures	Cu. Yd.	53.7		
Reinforcement Bars	Pound	3670		
Reinforcement Bars, Epoxy Coated	Pound	750		

NOTES:

- 1.) Work this sheet with Sheets F1 thru F7 and F11.
- 2.) B.F. denotes Back Face, F.F. denotes Front Face & E.F. denotes Each Face.
- 3.) Reinforcement bars designated (E) shall be epoxy coated.
- 4.) Order v52, v53, v54 & v55 bars full length. Cut according to Bar Cutting Diagram. Use remainder of v52, v53, v54 & v55 bars in same face of wingwall.
- 5.) h51, h54 and u50 bars shall be field cut and bent as required.
- 6.) The threaded inserts for the h54 bars shall be cast into the precast unit.
- 7.) The cost of threaded inserts shall be included in the cost of "Three Sided Precast Concrete Structures, 12'x7'".



DESIGNED BY
J.M.L.

DRAWN BY
D.J.M.

CHECKED BY
M.S.W.

Farnsworth GROUP
2700 Midtown Drive
Bloomington, Illinois 61704
302/653-3635, 302/653-1571 fax

FILE NO.
24-6772

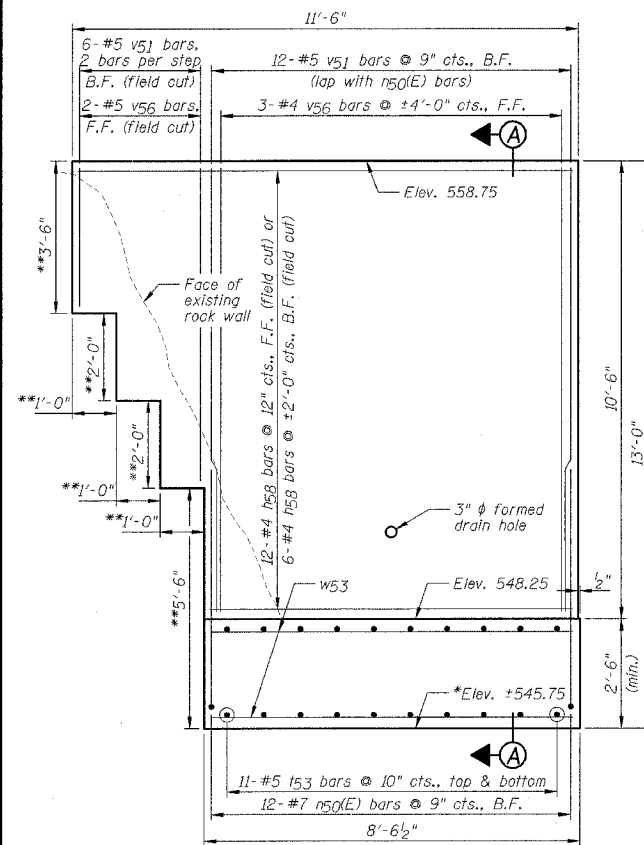
DATE
05-12-06

SHEET NO.
42 of 106

NORTH HEADWALL
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

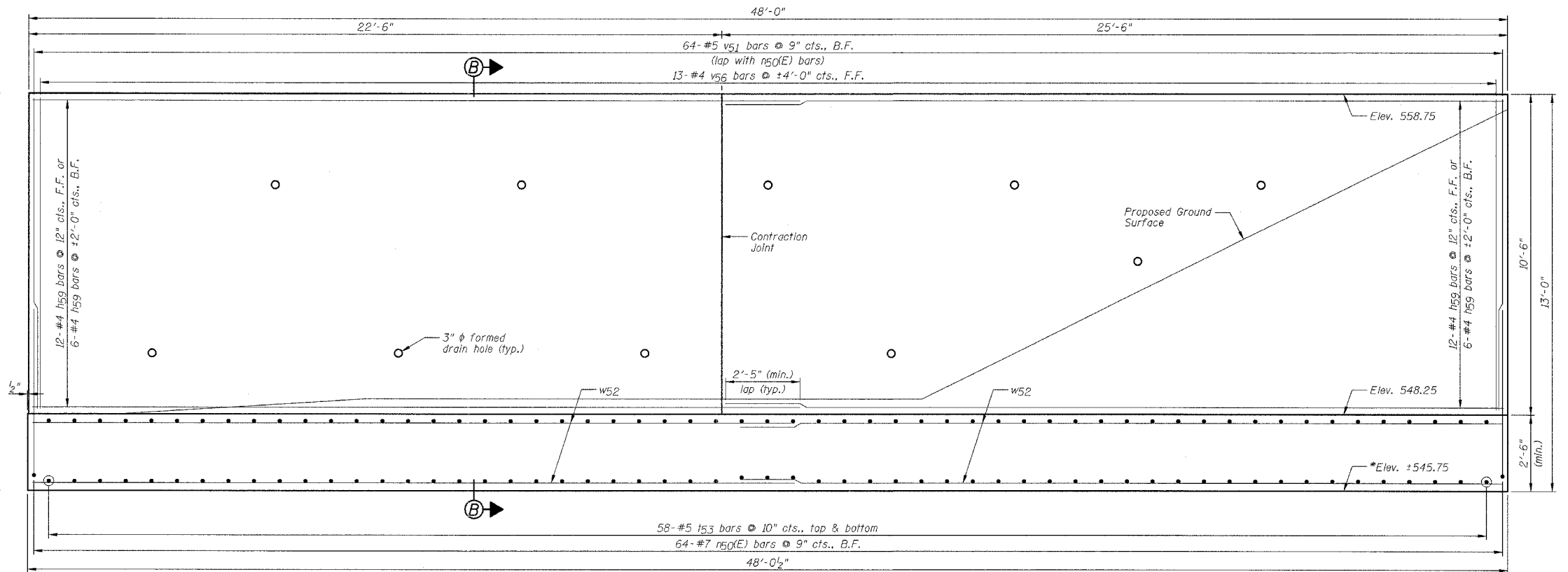
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	43
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. F9
OF 14 SHEETS

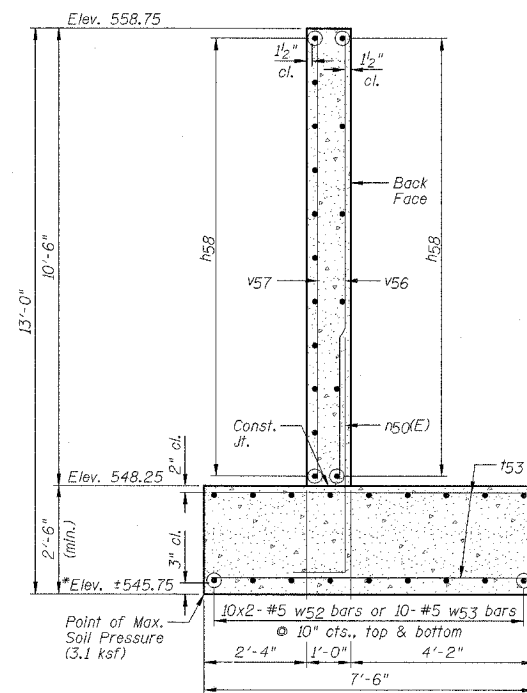


SOUTHWEST WINGWALL ELEVATION

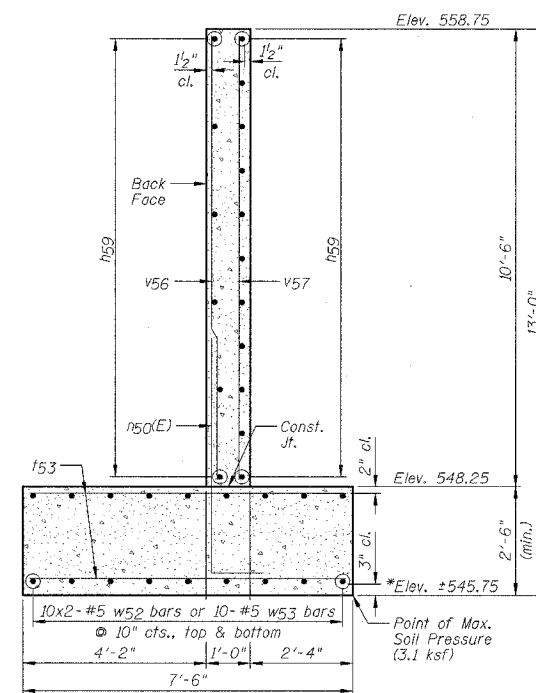
Note: **Dimensions may vary depending on rock formation. Verify dimensions in field.



SOUTHEAST WINGWALL ELEVATION



SECTION A-A



SECTION B-B

NOTES:

- 1.) Work this sheet with Sheets F1 thru F6, F10 and F11.
- 2.) See Sheet F10 for Bill of Materials.
- 3.) B.F. denotes Back Face, F.F. denotes Front Face.
- 4.) *The Footings shall be set 2'-0" minimum into sound rock. The thickness of the footings shall be increased if required to maintain this embedment.
- 5.) Reinforcement bars designated (E) shall be epoxy coated.
- 6.) Calculated Maximum Bearing Pressure = 3.1 ksf.

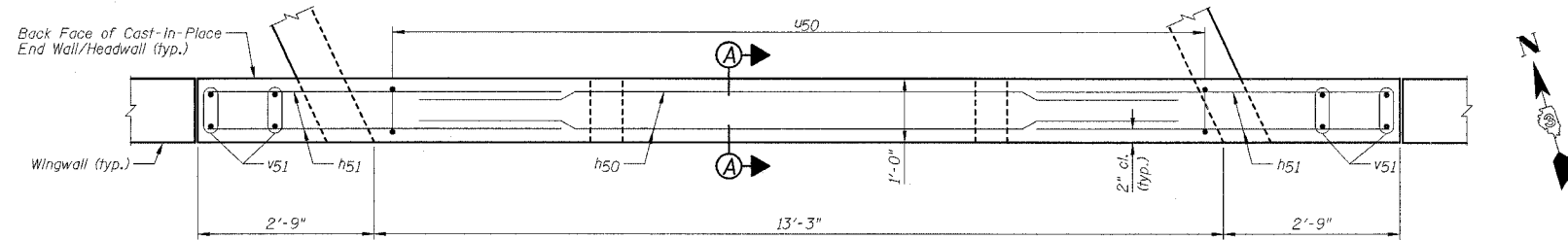
SOUTH WINGWALLS

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

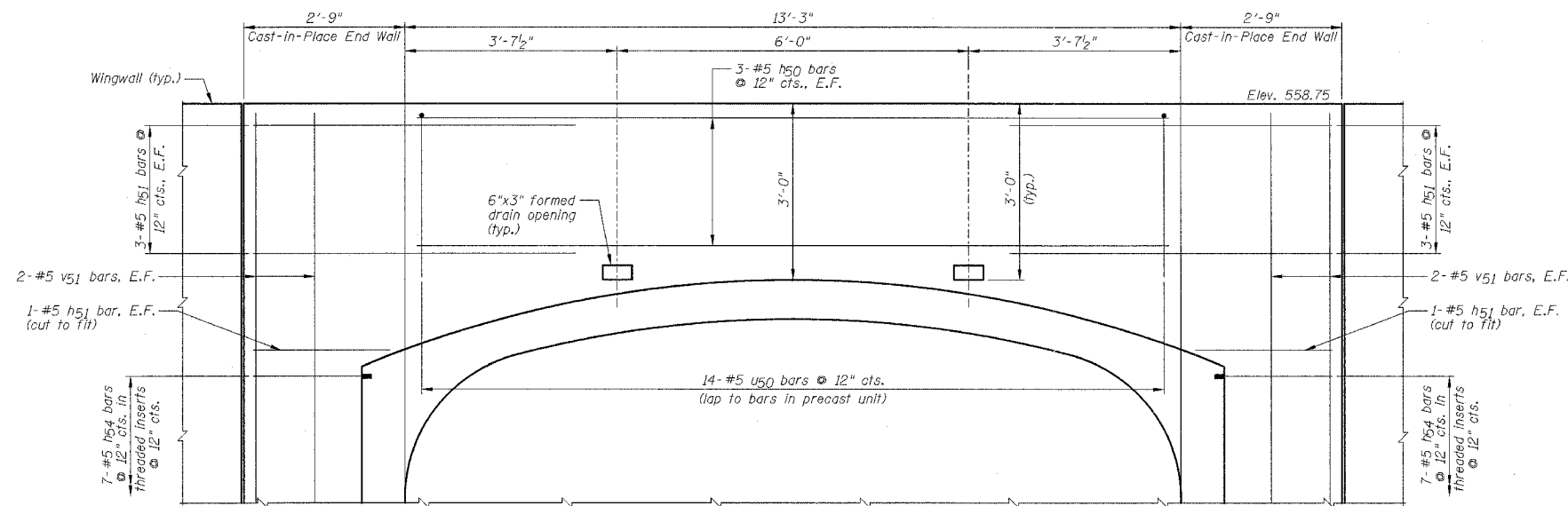
DESIGNED BY J.M.L.	<p>2700 Midway Drive Bloomington, Illinois 61704 302/883-8438, 302/883-8731 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 43 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	44
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

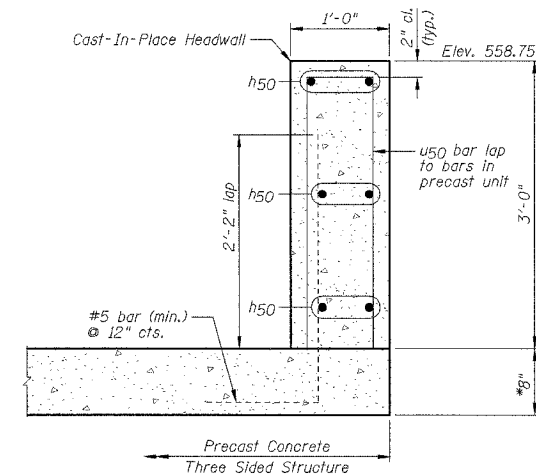
SHEET NO. F10
OF 14 SHEETS



SOUTH HEADWALL PLAN



SOUTH HEADWALL ELEVATION



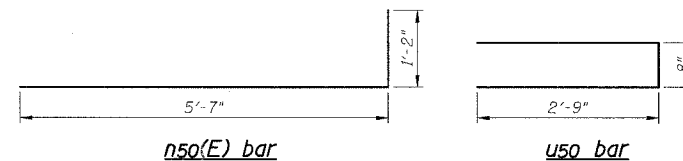
SECTION A-A
*Confirm thickness with Precaster.

**SOUTH HEADWALL & WINGWALLS
BILL OF MATERIALS**

Bar	No.	Size	Length	Shape
h50	6	#5	12'-11"	—
h51	16	#5	5'-6"	—
h54	14	#5	3'-0"	—
h58	18	#4	11'-2"	—
h59	36	#4	25'-1"	—
h50(E)	76	#7	6'-9"	—
h53	138	#5	7'-2"	—
u50	14	#5	6'-2"	—
v51	90	#5	10'-4"	—
v56	18	#4	10'-4"	—
w52	40	#5	25'-0"	—
w53	20	#5	8'-2"	—
Item	Unit	Quantity		
Structure Excavation	Cu. Yd.	150		
Rock Excavation For Structures	Cu. Yd.	39		
Concrete Structures	Cu. Yd.	65.7		
Reinforcement Bars	Pound	4300		
Reinforcement Bars, Epoxy Coated	Pound	1050		

NOTES:

- 1.) Work this sheet with Sheets F1 thru F6, F9 and F11.
- 2.) B.F. denotes Back Face, F.F. denotes Front Face & E.F. denotes Each Face.
- 3.) Reinforcement bars designated (E) shall be epoxy coated.
- 4.) h51, h54 and u50 bars shall be field cut and bent as required.
- 5.) The threaded inserts for the h55 bars shall be cast into the precast unit.
- 6.) The cost of threaded inserts shall be included in the cost of "Three Sided Precast Concrete Structures, 12'x7'".

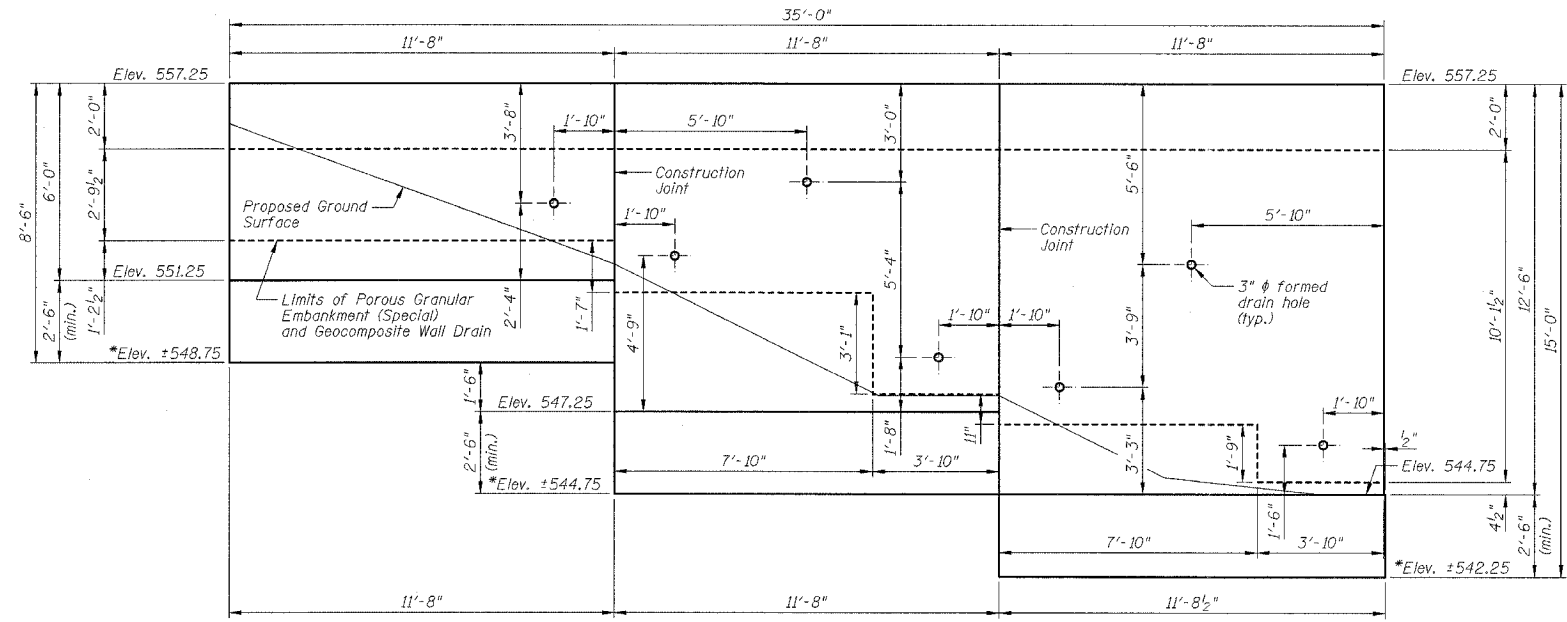


DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 302/953-3425, 300/323-1271 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 44 of 106

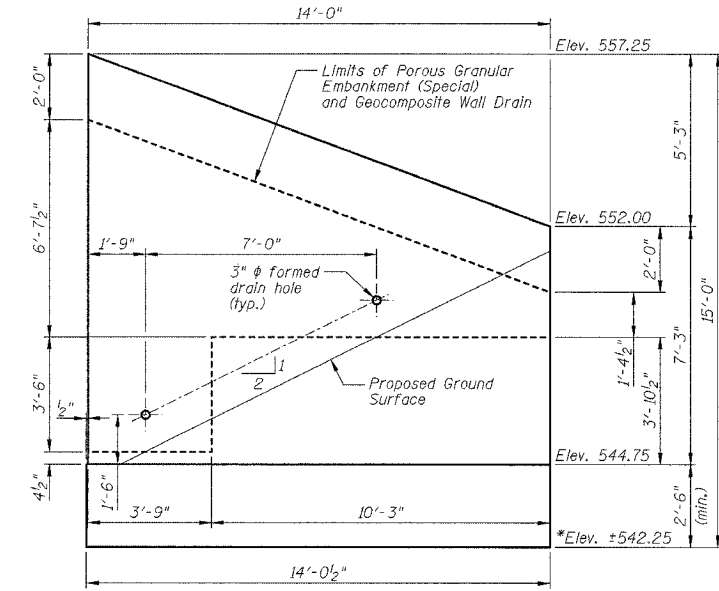
SOUTH HEADWALL
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	45
STA.	TO STA.		FED. ROAD DIST. NO.	
	ILLINOIS		FED. AID PROJECT	

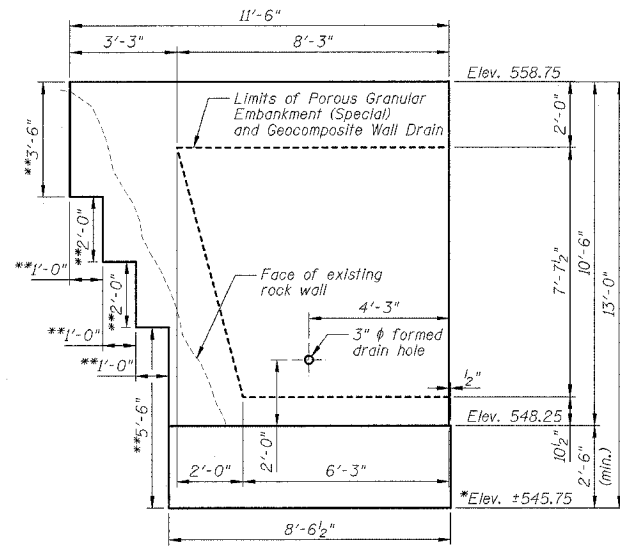
SHEET NO. F11
OF 14 SHEETS



NORTHEAST WINGWALL ELEVATION

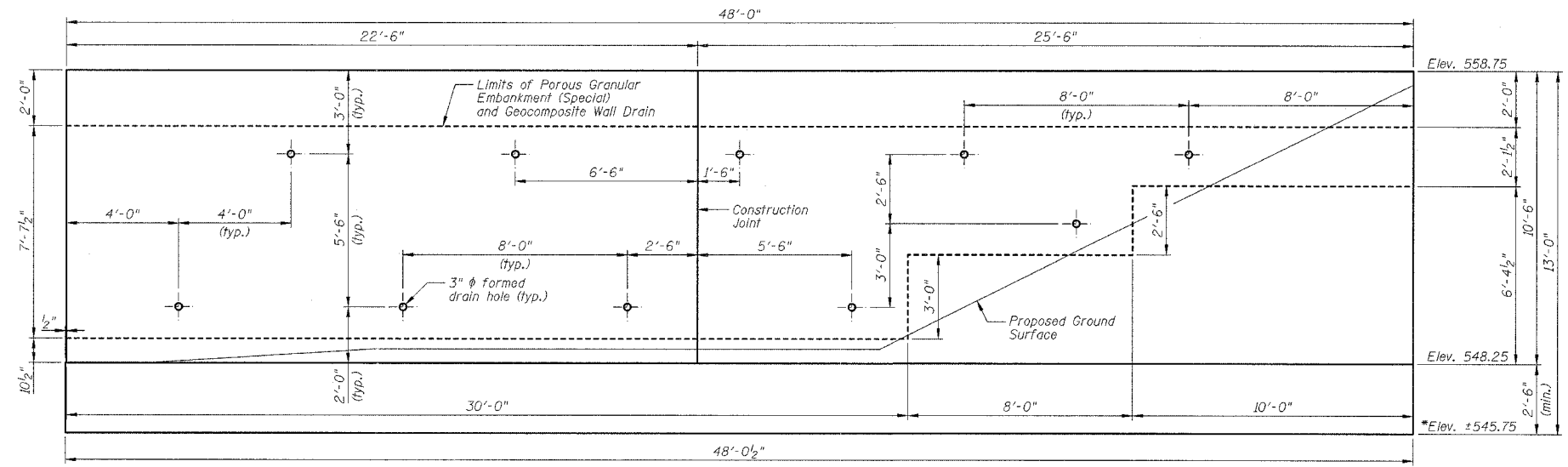


NORTHWEST WINGWALL ELEVATION



SOUTHWEST WINGWALL ELEVATION

Note: *Dimensions may vary depending on rock formation. Verify dimensions in field.



SOUTHEAST WINGWALL ELEVATION

BILL OF MATERIALS

Item	Unit	Total
Porous Granular Embankment (Special)	Cu. Yd.	91
Geocomposite Wall Drain	Sq. Yd.	68

NOTES:

- 1.) Work this sheet with Sheets F1 thru F10.
- 2.) *The Footings shall be set 2'-0" minimum into sound rock. The thickness of the Footings shall be increased if required to maintain this embedment.

DESIGNED BY
J.M.L.

DRAWN BY
D.J.M.

CHECKED BY
M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/883-8435, 309/883-1071 fax

FILE NO.
24-6772

DATE
05-12-06

SHEET NO.
45 of 106

POROUS GRANULAR EMBANKMENT (SPECIAL) AND GEOCOMPOSITE WALL DRAIN

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	46
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. F12

OF 14 SHEETS



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 2/23/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT EAST OF TONTI CANYON LOGGED BY B.S.
SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC.23, TWP.33N, RNG.2E, 3rd PM
COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	Stream Bed Elev. ft	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
<u>CULVERT #10</u>	<u>416+45</u>										
<u>BORING NO. 13 CULVERT 10 WBL</u>	<u>416+72</u>										
	<u>Offset 6.00ft LT</u>										
	<u>Ground Surface Elev. 568.00 ft</u>										
PAVEMENT OVER WHITE ROCK											
	Very Stiff Gray/Brown SILTY CLAY TILL										
	Very Stiff Brown SILTY CLAY TILL										
	Very Stiff Brown LOAM TILL										
	Soft Dark Gray CLAY LOAM with a 6" black Organic Layer at 16.5 to 17.0'										
	Very Dense Brown ST. PETER SANDSTONE										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 2/23/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT EAST OF TONTI CLANYON LOGGED BY B.S.
SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC.23, TWP.33N, RNG.2E, 3rd PM
COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	Station	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)	Surface Water Elev. ft	Stream Bed Elev. ft	DEPTH (ft)	BLOW (blows/ft)	UCS (tsf)	MOIST (%)
<u>CULVERT #10</u>	<u>416+45</u>										
<u>BORING NO. 14 CULVERT 10 WBL</u>	<u>416+21</u>										
	<u>Offset 6.00ft LT</u>										
	<u>Ground Surface Elev. 568.14 ft</u>										
NO SAMPLE BORING FOR ELEVATION OF TOP OF BEDROCK											
	TOP OF SANDSTONE										
	End of Boring										

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 312/353-5435, 309/892-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 46 of 106

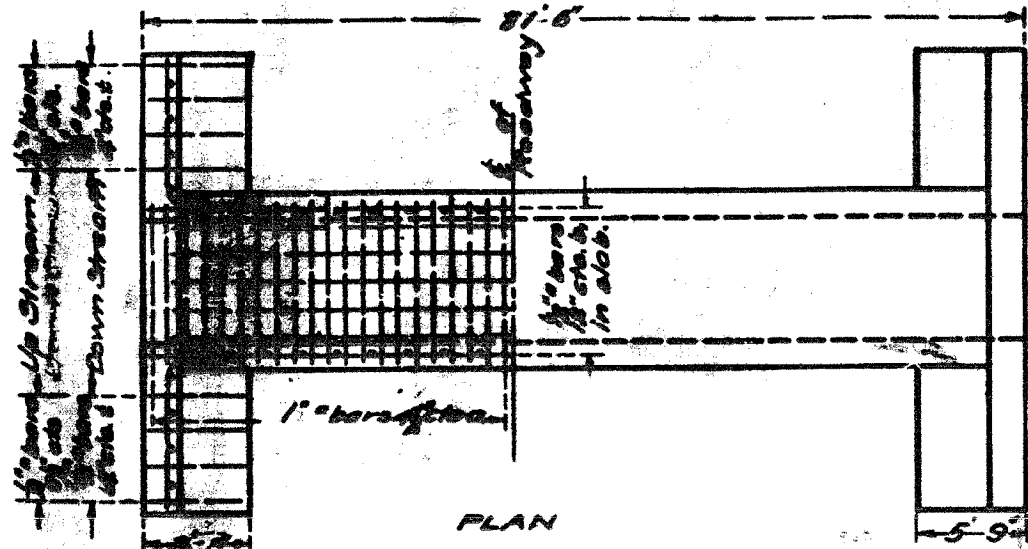
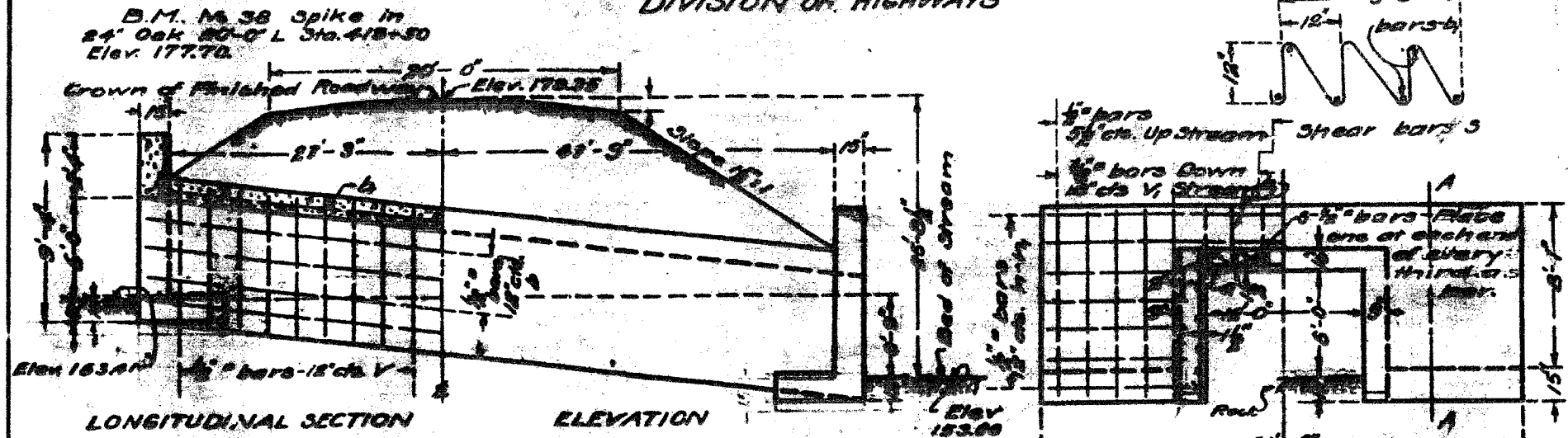
SOIL BORING LOGS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 416+44.62
STRUCTURE NO. 050-C804

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	48
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

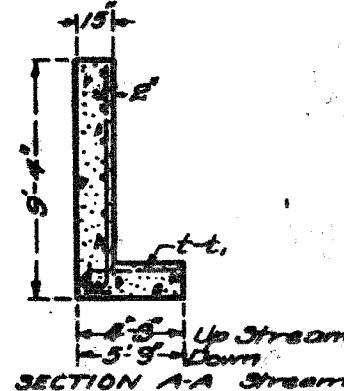
SHEET NO. F14
OF 14 SHEETS

FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	ILL.	7	1918 (1918)	24	31

STATE OF ILLINOIS
DEPARTMENT OF PUBLIC WORKS AND BUILDINGS
DIVISION OF HIGHWAYS



END ELEVATION



BILL OF MATERIAL

Ord. No.	Spec. Length	Qty.	Unit
V	12'-0"	1	1'-1"
W	12'-0"	1	12'-0"
X	12'-0"	1	12'-0"
Y	12'-0"	1	12'-0"
Z	12'-0"	1	12'-0"
1	12'-0"	1	12'-0"
2	12'-0"	1	12'-0"
3	12'-0"	1	12'-0"
4	12'-0"	1	12'-0"
5	12'-0"	1	12'-0"
6	12'-0"	1	12'-0"
7	12'-0"	1	12'-0"
8	12'-0"	1	12'-0"
9	12'-0"	1	12'-0"
10	12'-0"	1	12'-0"
11	12'-0"	1	12'-0"
12	12'-0"	1	12'-0"
13	12'-0"	1	12'-0"
14	12'-0"	1	12'-0"
15	12'-0"	1	12'-0"
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96	12'-0"	1	12'-0"
97	12'-0"	1	12'-0"
98	12'-0"	1	12'-0"
99	12'-0"	1	12'-0"
100	12'-0"	1	12'-0"

Class A concrete to be used thruout. Proportions 1:2 1/2:4.

Sta. 417+42
Project 7-Section I.
Federal Aid
Marris-Henry Road
La Salle Co.

5B1 R1. 7-A

SPECIAL Drawn F.R. Zaher
Checked E.C. Sumner

Revised 11-11-18

Examined Sept 9, 1919
S. Sumner
Bridge Engineer

FOR INFORMATIONAL
USE ONLY

Benchmarks: 1.) Chiseled "□" at S.E. corner of structure on top of safety barrier
 Sta. 465+71.92/13.81' LT Elevation = 563.63.
 2.) Top of guardrail post on the West side of IL Rte. 71 @ back center of the 10th post North from the South end of the rail @ Station 467+60.33/14.84' RT., Elevation = 572.99.

Existing Structure: Existing Retaining Wall, built 1922, under Section I-1 from Station 462+22.38 to Station 464+47.19 of F.A.P. 627 (IL 71). Consisting of a concrete gravity retaining wall section approximately 400' long that varies in height. This retaining wall was constructed between the roadway and the public trail in the State Park. Traffic will be maintained during construction via detour routes. The existing retaining wall is to remain.

DESIGN SPECIFICATIONS **HORIZONTAL CURVE DATA**

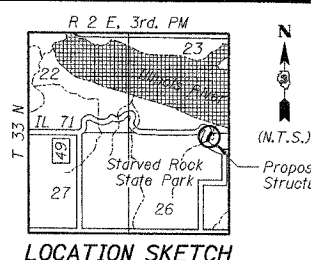
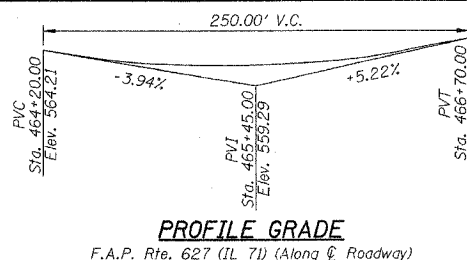
AASHTO 2002

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi (Cast-In-Place Concrete)
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (Soldier Pile Steel)

P.I. STA. = 464+75.79
 Δ = 45°36'
 D = 16°55'20"
 R = 338.61'
 T = 142.34'
 L = 269.49'
 E = 28.7'
 S.E. = 0.04'/ft.
 P.C. STA. = 463+33.45
 P.T. STA. = 466+02.94

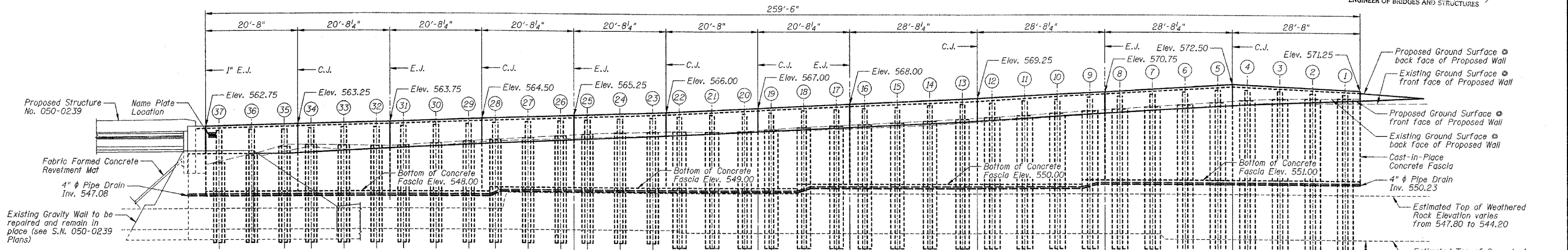


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	49
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

APPROVED
 FOR STRUCTURAL ADEQUACY ONLY

Ralph E. Underwood (SE)
 ENGINEER OF BRIDGES AND STRUCTURES

SHEET NO. 01
 OF 12 SHEETS

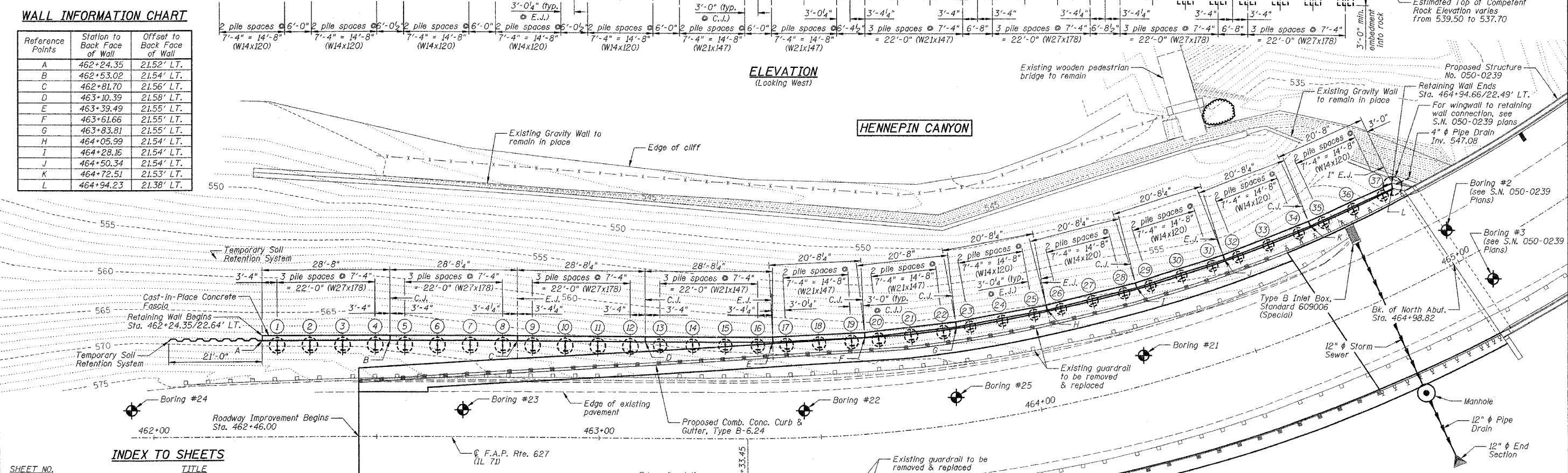


WALL INFORMATION CHART

Reference Points	Station to Back Face of Wall	Offset to Back Face of Wall
A	462+24.35	21.52' LT.
B	462+53.02	21.54' LT.
C	462+81.70	21.56' LT.
D	463+10.39	21.58' LT.
E	463+39.49	21.55' LT.
F	463+61.66	21.55' LT.
G	463+83.81	21.55' LT.
H	464+05.99	21.54' LT.
I	464+28.16	21.54' LT.
J	464+50.34	21.54' LT.
K	464+72.51	21.53' LT.
L	464+94.23	21.38' LT.

ELEVATION
 (Looking West)

HENNEPIN CANYON



INDEX TO SHEETS

SHEET NO.	TITLE
G1	GENERAL PLAN AND ELEVATION
G2	GENERAL NOTES, BILL OF MATERIALS, SECTIONS AND DETAILS
G3	CONTOUR LAYOUT PLAN AND ELEVATION
G4-G5	WALL REINFORCEMENT AND SOLDIER PILE INFORMATION
G6	RUSTICATION FINISH DETAILS
G7	PIPE UNDERDRAIN ELEVATION AND DETAIL
G9-G10	SOIL BORING LOGS
G11-G12	EXISTING PLANS

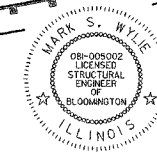
LEGEND

- Existing Contour Line (1'-0" increments)
- Existing Contour Line (5'-0" increments)
- Location of Threatened Plant not to be disturbed (Forked Aster)

NOTES:

- E.J. denotes 1/2" Expansion Joint (unless otherwise noted).
- C.J. denotes Construction Joint.
- Cast-In-Place Concrete Fascia is to have a form liner surface.

PLAN



Mark S. Wylie Date 5/15/06
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 NO. 081-005002
 Exp. Date 11/30/06

GENERAL PLAN AND ELEVATION

IL ROUTE 71
 SOLDIER PILE RETAINING WALL
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 462+24.35 TO STATION 464+94.66
 PROPOSED STRUCTURE NO. 050-W004

DESIGNED BY: J.M.L.
 DRAWN BY: D.J.M.
 CHECKED BY: M.S.W.

Farnsworth GROUP
 2708 McGraw Drive
 Bloomington, Illinois 61704
 309/890-6636, 309/892-1671 fax

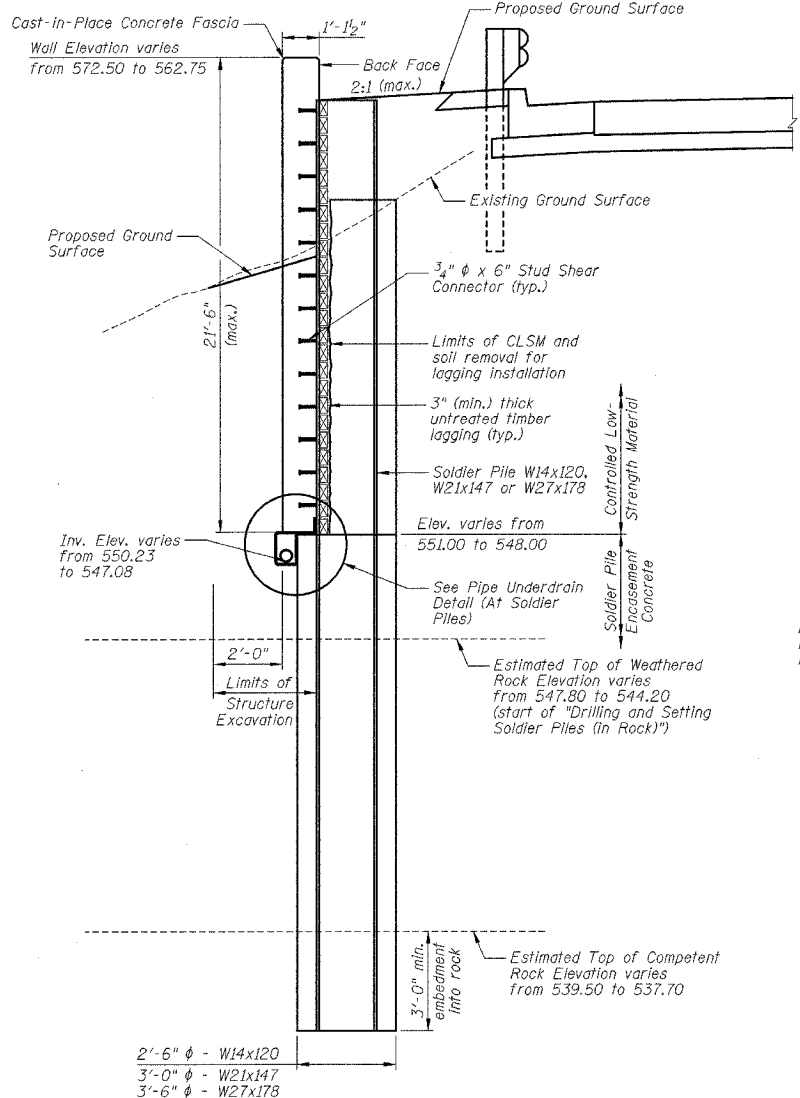
FILE NO. 24-6772
 DATE 05-12-06
 SHEET NO. 49 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	50
STA. TO STA.		FED. AID PROJECT		
FED. ROAD DIST. NO.		ILLINOIS		

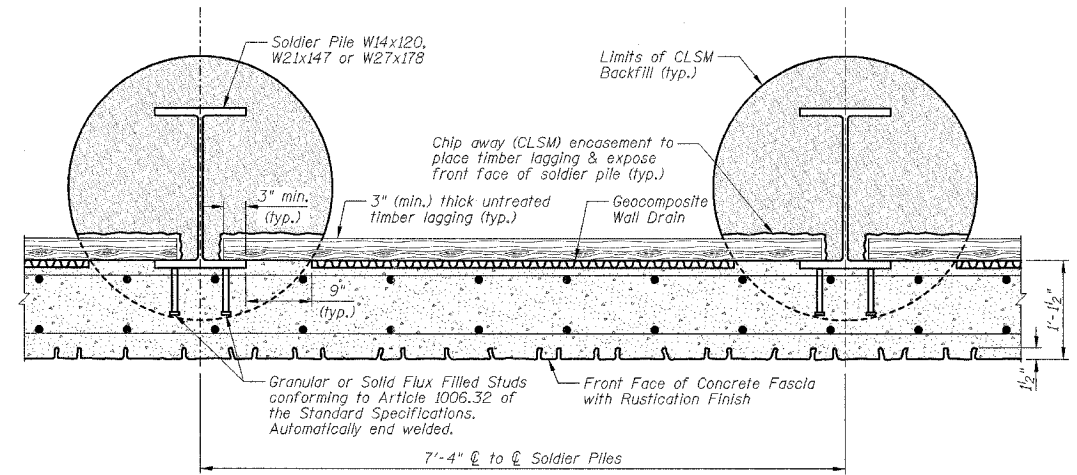
SHEET NO. 62
OF 12 SHEETS

STATION 462+24.35 TO STATION 464+94.66
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 627 SECTION (I-1) BR & I
STR. NO. 050-W004

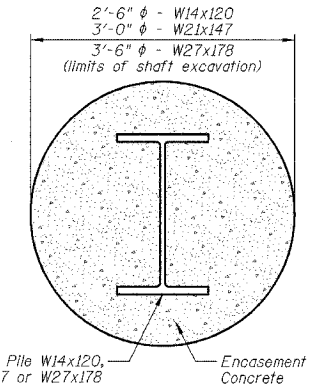
NAME PLATE DETAIL
See Standard 515001



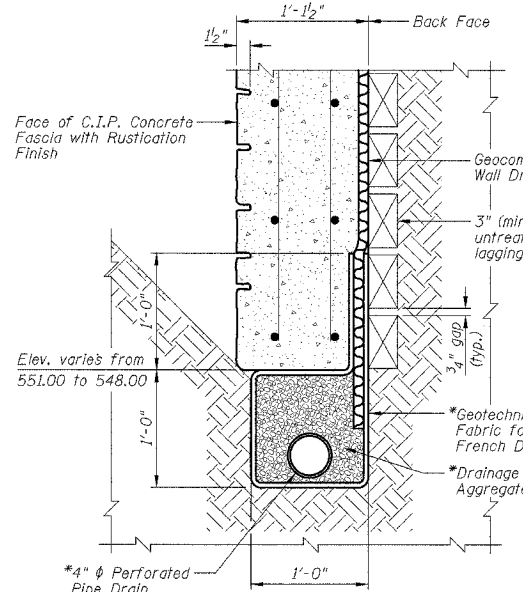
TYPICAL SECTION



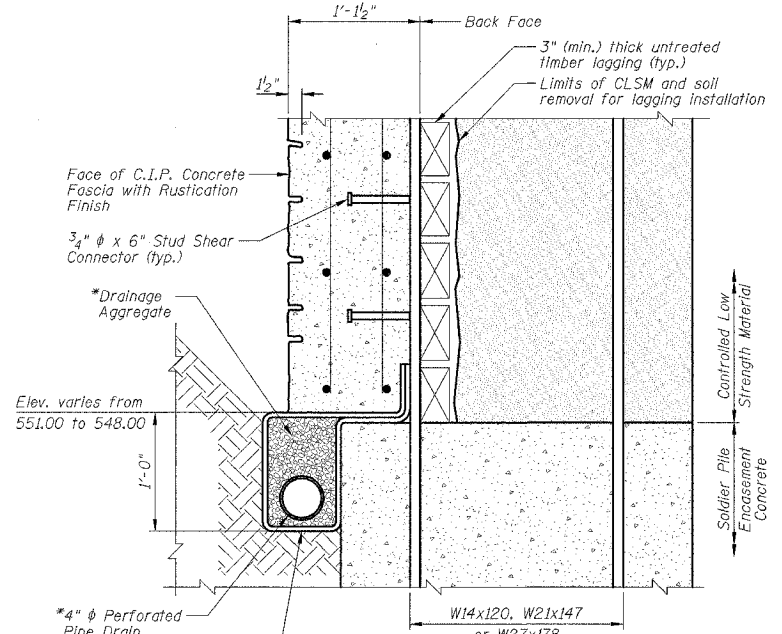
TYPICAL PLAN



TYPICAL PILE SECTION



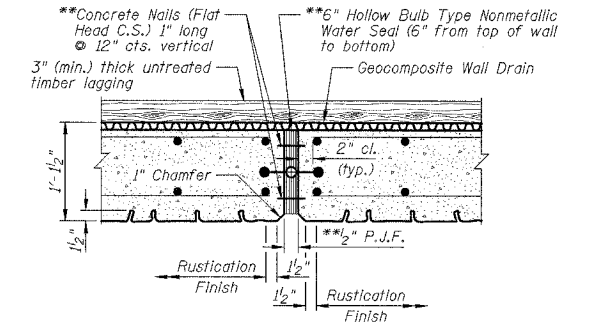
BETWEEN SOLDIER PILES



AT SOLDIER PILES

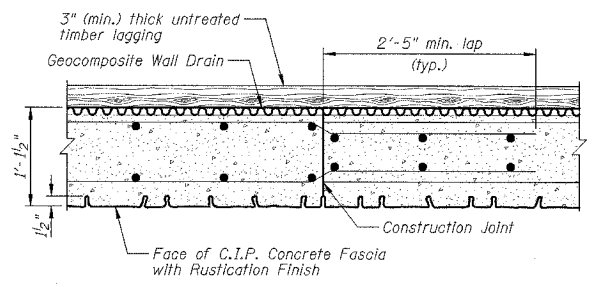
PIPE UNDERDRAIN DETAILS

*Included in the cost of "Pipe Underdrains for Structures".



EXPANSION JOINT DETAIL

Notes: 1.) **Cost included with "Concrete Structures".
2.) P.J.F. exaggerated for clarity.



CONSTRUCTION JOINT DETAIL

SUGGESTED CONSTRUCTION SEQUENCE:

- 1.) Excavate working platform and drill shaft excavation for soldier pile. Embedment into rock shall be as shown on the plans.
- 2.) Set soldier pile in the shaft excavation and brace to maintain proper pile position.
- 3.) Place encasement concrete around soldier pile to the bottom of the C.I.P. concrete fascia, and Controlled Low Strength Material (CLSM) to the excavated ground surface.
- 4.) Excavate in front of wall in stages removing only the soil necessary to place each timber lagging snug against excavated surface.
- 5.) After the lagging has been placed to the depths shown in the plans, the Geocomposite Wall Drain shall be attached to and cover the untreated timber lagging.
- 6.) The French Drain shall be excavated, lined with fabric, pipe and aggregate placed and connected to the Geocomposite Wall Drain as shown on the plans.
- 7.) Attach stud shear connectors, set reinforcement, form and pour C.I.P. concrete fascia.
- 8.) Cut off any additional piling extending above the top of pile elevation as noted on Sheets G4 and G5.
- 9.) Backfilling of the wall can commence after the concrete fascia has met the minimum compressive strength f'c of the concrete as noted on the plans.

GENERAL NOTES:

- 1.) Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
- 2.) See Sheets G7 thru G9 for soil boring data.
- 3.) All exposed edges shall be chamfered 3/4\"/>
- 4.) The Contractor is responsible for the design and performance of the Untreated Timber Lagging using no less than a 3\"/>
- 5.) Stud Shear Connectors shall be 3/4\"/>
- 6.) For information on the Drilled Soldier Pile Retaining Wall, see Special Provision "Drilled Soldier Pile Retaining Wall".
- 7.) All construction joints shall be banded.
- 8.) See Sheet G6 for the limits of "Rustication Finish". See Special Provision "Rustication Finish" for additional information.
- 9.) All Cast-in-Place concrete shall be integrally colored. See the Special Provision "Colored Concrete - Cast-in-Place" for additional information.
- 10.) For backfilling of the retaining wall, see the Standard Specifications.
- 11.) C.I.P. denotes Cast-in-Place.
- 12.) Protective Coat shall be applied to all exposed surfaces of the wall (extend a minimum of 1'-0\"/>
- 13.) The cost for drilling through the existing gravity wall for the 4\"/>
- 14.) The cost of cutting off any additional piling shall be included in the cost of "Furnishing Soldier Piles".
- 15.) The cost of wall end supports shall be included in the cost of "Furnishing Soldier Piles" (see Sheet G3 for Wall End Support for Timber Lagging Detail).
- 16.) The existing plans are provided for Informational use only.

TOTAL WALL BILL OF MATERIALS

ITEMS	UNITS	TOTAL
Structure Excavation	Cu Yd	494
Concrete Structures	Cu Yd	194.3
Protective Coat	Sq Yd	270
Rustication Finish	Sq Ft	4587
Stud Shear Connectors	Each	908
Untreated Timber Lagging	Sq Ft	3971
Furnishing Soldier Piles (W Section)	Foot	1168
Reinforcement Bars, Epoxy Coated	Pound	21220
Name Plates	Each	1
Geocomposite Wall Drain	Sq Yd	259
Pipe Underdrains for Structures 4"	Foot	265
Drilling and Setting Soldier Piles (In Soil)	Cu Ft	4367
Drilling and Setting Soldier Piles (In Rock)	Cu Ft	2995
Temporary Soil Retention System	Sq Ft	220

NOTE:

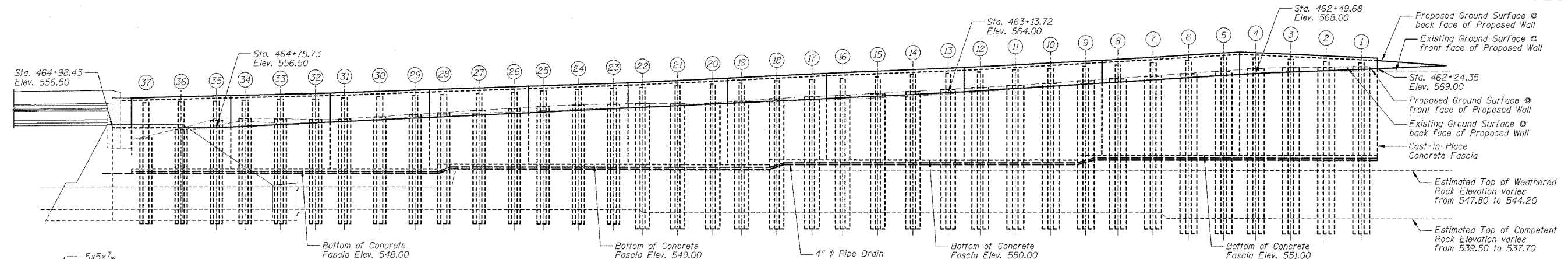
Work this sheet with Sheets G1 and G3 thru G10.

GENERAL NOTES, BILL OF MATERIALS, SECTIONS AND DETAILS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

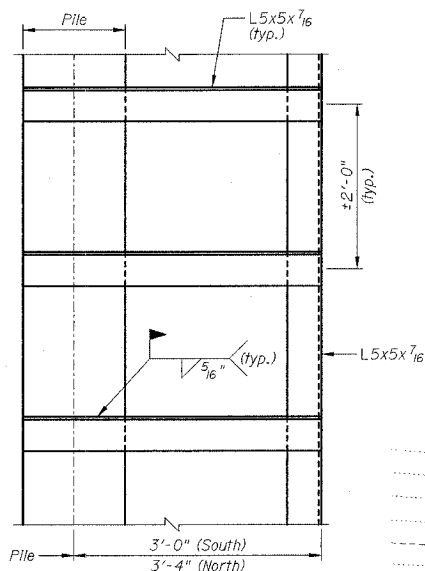
DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/933-6636, 309/933-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 50 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	51
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

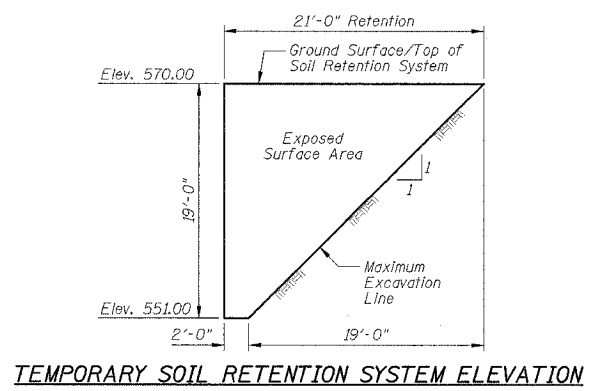
SHEET NO. 63
OF 12 SHEETS



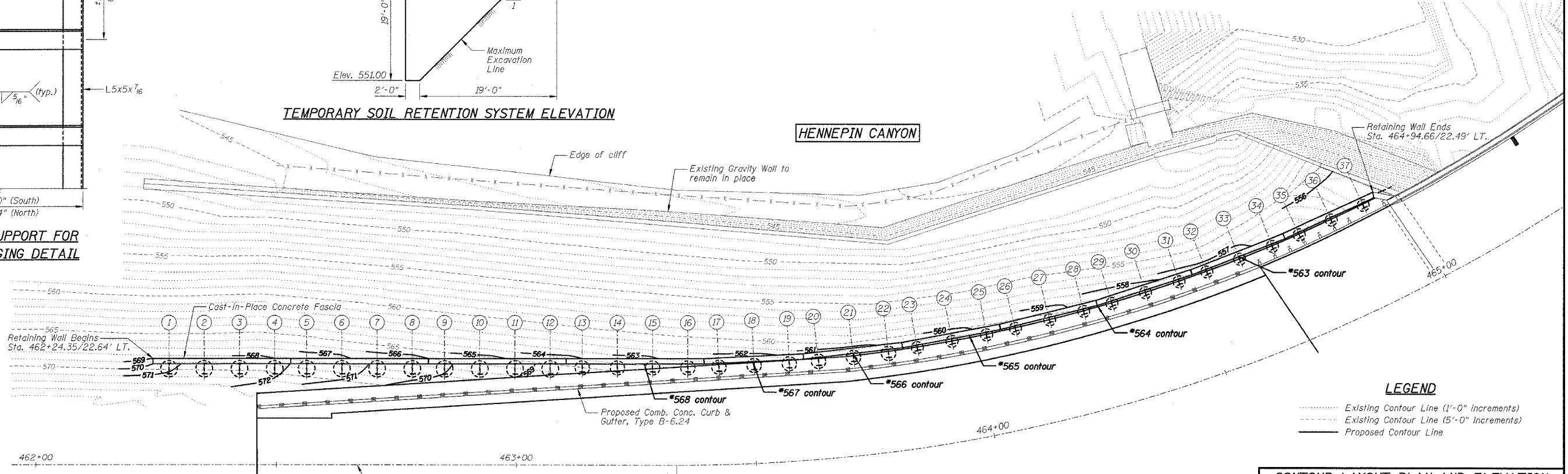
ELEVATION
(Looking West)



**WALL END SUPPORT FOR
TIMBER LAGGING DETAIL**



TEMPORARY SOIL RETENTION SYSTEM ELEVATION



LEGEND

- Existing Contour Line (1'-0" increments)
- Existing Contour Line (5'-0" increments)
- Proposed Contour Line

BILL OF MATERIALS

Item	Unit	Total
Temporary Soil Retention System	Sa. Ft.	220

PLAN

NOTES:

- 1.) Work this sheet with Sheets G1, G2, G4 & G5.
- 2.) *Denotes contour start location.
- 3.) See Sheet G1 for location of Temporary Soil Retention System.

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

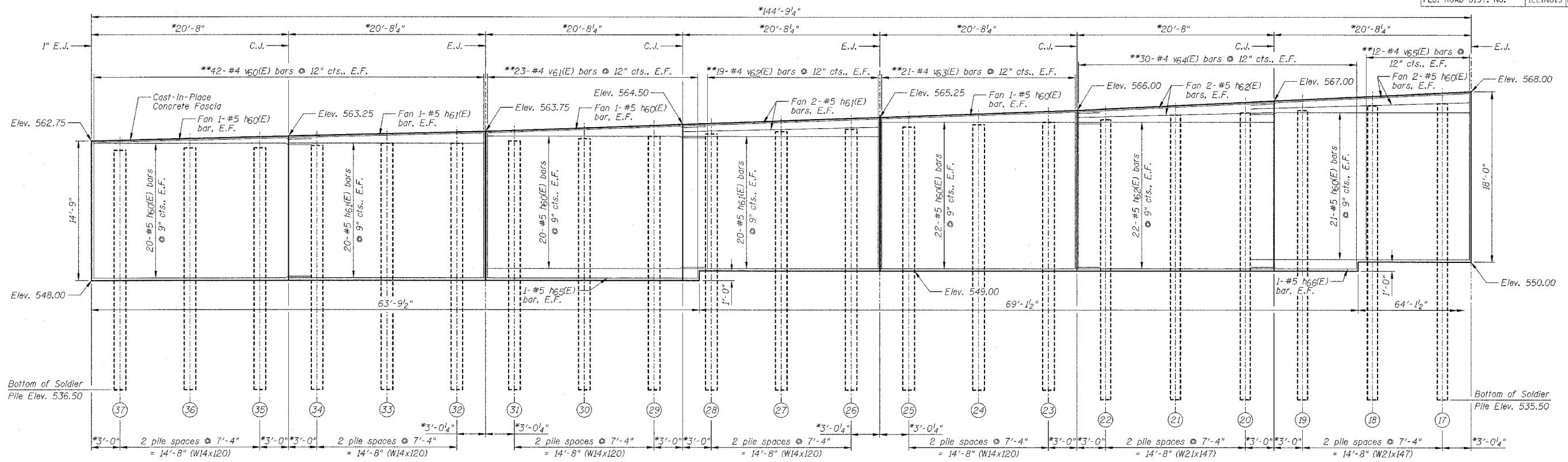
Farnsworth GROUP
2708 McGraw Drive
Bloomington, Illinois 61704
302/952-6435, 302/952-9711 fax

FILE NO.: 24-6772
DATE: 05-12-06
SHEET NO.: 51 of 106

CONTOUR LAYOUT PLAN AND ELEVATION
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

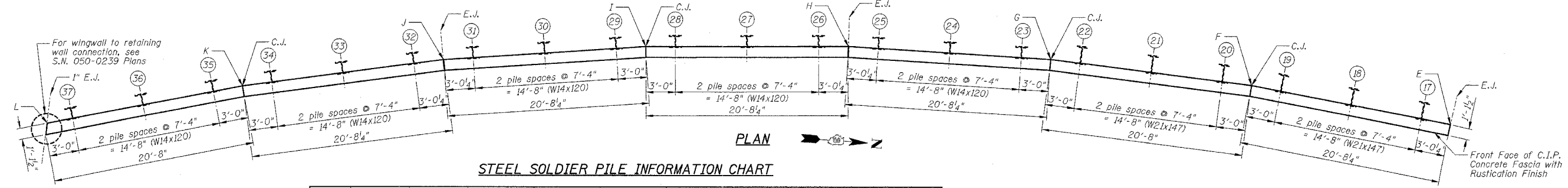
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	52
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. G4
OF 12 SHEETS



ELEVATION (SHOWING REINFORCEMENT)
(Looking West)

Notes: *Dimensions taken from Front Face of Wall.
**Lap u50(E) bars with v60(E), v61(E), v62(E), v63(E), v67(E) & v68(E) bars.
Lap u61(E), v64(E), v65(E), & v66(E) bars. (The number of v60(E) & u61(E) bars shall equal the v(E) bars for one face.)



STEEL SOLDIER PILE INFORMATION CHART

Pile No.	Station	Offset to Ctr. of Pile	Pile Section	Top of Pile Elevation	Bottom of Pile Elevation	Finished Pile Length	Furnished Pile Length	No. of Stud Shear Connectors	Top of Class S1 Concrete Encasement Elevation
17	463+42.77	20.81' LT.	W21X147	566.75	535.50	31'-3"	32'-3"	24	550.00
18	463+50.58	20.89' LT.	W21X147	566.50	535.50	31'-0"	32'-0"	24	549.00
19	463+58.40	20.81' LT.	W21X147	566.00	535.50	30'-6"	31'-6"	24	549.00
20	463+64.92	20.81' LT.	W21X147	565.75	535.50	30'-3"	31'-3"	24	549.00
21	463+72.74	20.90' LT.	W21X147	565.50	535.50	30'-0"	31'-0"	24	549.00
22	463+80.55	20.81' LT.	W21X147	565.00	535.50	29'-6"	30'-6"	24	549.00
23	463+87.07	21.11' LT.	W14X120	564.75	536.50	28'-3"	29'-3"	24	549.00
24	463+94.89	21.19' LT.	W14X120	564.50	536.50	28'-0"	29'-0"	22	549.00
25	464+02.71	21.10' LT.	W14X120	564.25	536.50	27'-9"	28'-9"	22	549.00
26	464+09.27	21.10' LT.	W14X120	564.00	536.50	27'-6"	28'-6"	22	549.00
27	464+17.09	21.19' LT.	W14X120	563.75	536.50	27'-3"	28'-3"	22	549.00
28	464+24.91	21.10' LT.	W14X120	563.50	536.50	27'-0"	28'-0"	22	548.00
29	464+31.42	21.10' LT.	W14X120	563.25	536.50	26'-9"	27'-9"	22	548.00
30	464+39.24	21.19' LT.	W14X120	563.00	536.50	26'-6"	27'-6"	22	548.00
31	464+47.06	21.10' LT.	W14X120	562.75	536.50	26'-3"	27'-3"	22	548.00
32	464+53.62	21.10' LT.	W14X120	562.50	536.50	26'-0"	27'-0"	22	548.00
33	464+61.44	21.18' LT.	W14X120	562.50	536.50	26'-0"	27'-0"	22	548.00
34	464+69.26	21.09' LT.	W14X120	562.25	536.50	25'-9"	26'-9"	22	548.00
35	464+75.76	21.06' LT.	W14X120	562.00	536.50	25'-6"	26'-6"	20	548.00
36	464+83.58	21.09' LT.	W14X120	562.00	536.50	25'-6"	26'-6"	20	548.00
37	464+91.39	20.95' LT.	W14X120	561.75	536.50	25'-3"	26'-3"	20	548.00

NOTES:

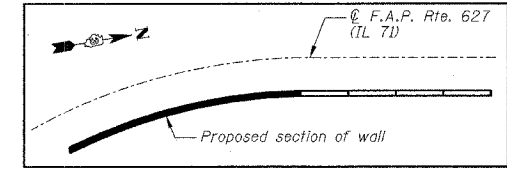
- 1.) Work this sheet with Sheets G1-G3 and G5.
- 2.) E.F. denotes Each Face, E.J. denotes Expansion Joint (unless otherwise noted), C.J. denotes Construction Joint.
- 3.) For "Rustication Finish" details see Sheet G6.
- 4.) Reinforcement bars designated (E) shall be epoxy coated.
- 5.) Minimum lap lengths: #4 bar = 1'-8"
#5 bar = 2'-5"
- 6.) See Sheet G2 for Construction Joint Detail and Expansion Joint Detail.
- 7.) The u50(E) & u61(E) bars shall maintain a 2" clearance from the top of the wall, therefore adjust u50(E) & u61(E) bars accordingly (maintain 1'-8" min. lap with v(E) bars).
- 8.) See Sheet G5 for Bill of Materials.

WALL INFORMATION CHART

Reference Points	Location at Wall	Station to Back Face of Wall	Offset to Back Face of Wall	Wall Height
E	E.J.	463+39.49	21.55' LT.	18'-0"
F	C.J.	463+61.66	21.55' LT.	18'-0"
G	C.J.	463+83.81	21.55' LT.	17'-0"
H	E.J.	464+05.99	21.54' LT.	16'-3"
I	C.J.	464+28.16	21.54' LT.	16'-6"
J	E.J.	464+50.34	21.54' LT.	15'-9"
K	C.J.	464+72.51	21.53' LT.	15'-3"
L	End Wall/E.J.	464+94.23	21.38' LT.	14'-9"

Note: See Plan for Reference Point locations.

WALL REINFORCEMENT AND SOLDIER PILE INFORMATION
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004



LOCATION MAP

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/882-6686, 309/882-8771 fax

FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 52 OF 106

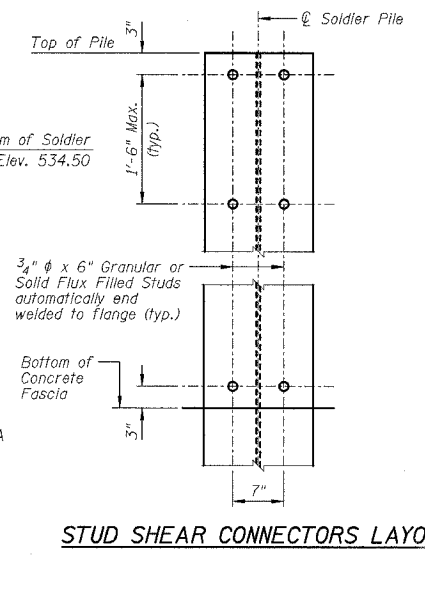
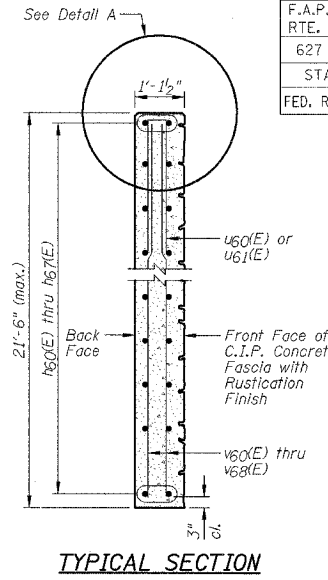
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	53
STA.	TO STA.		ILLINOIS FED. AID PROJECT	
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		SHEET NO. 65	

OF 12 SHEETS

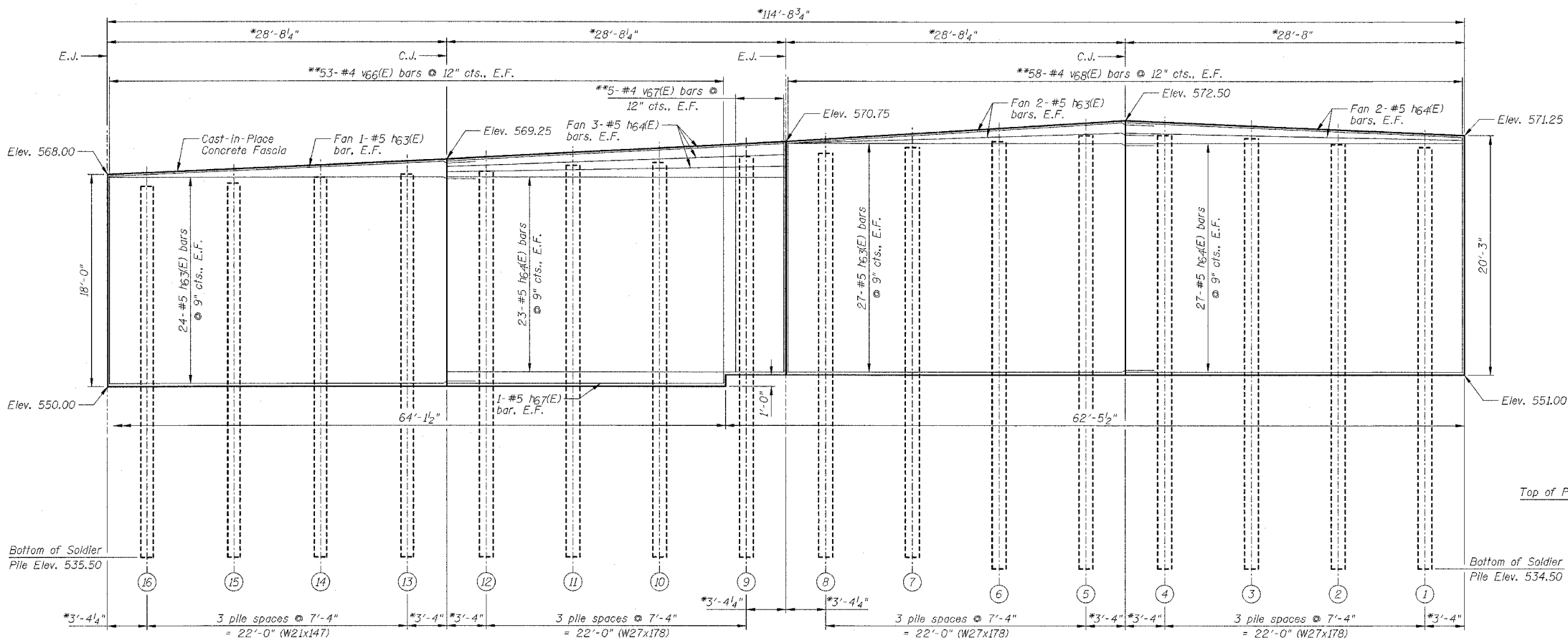
BILL OF MATERIALS

Bar No.	Size	Length	Shape
u60(E)	#5	22'-11"	
u61(E)	#5	20'-6"	
u62(E)	#5	20'-8"	
u63(E)	#5	30'-11"	
u64(E)	#5	28'-6"	
u65(E)	#5	22'-0"	
u66(E)	#5	11'-0"	
u67(E)	#5	23'-4"	
u60(E)	#4	6'-10"	
u61(E)	#4	9'-4"	
u60(E)	#4	14'-4"	
u61(E)	#4	15'-4"	
u62(E)	#4	15'-2"	
u63(E)	#4	15'-10"	
u64(E)	#4	16'-7"	
u65(E)	#4	17'-0"	
u66(E)	#4	17'-7"	
u67(E)	#4	19'-1"	
u68(E)	#4	19'-4"	

Item	Unit	Quantity
Concrete Structures	Cu. Yd.	194.3
Stud Shear Connectors	Each	908
Furnishing Soldier Piles (W Section)	Foot	1168
Reinforcement Bars, Epoxy Coated	Pound	21220

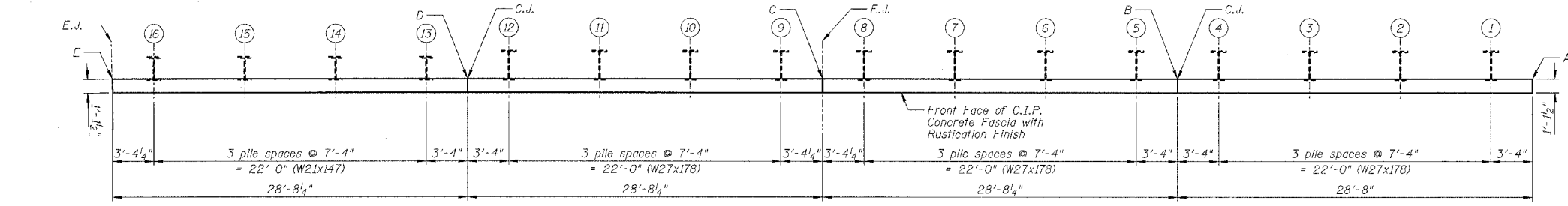


u60(E) BAR u61(E) BAR



Notes: *Dimensions taken from Front Face of Wall.
 **Lap u60(E) bars with u60(E), u61(E), u62(E), u63(E), u67(E) & u68(E) bars.
 Lap u61(E) bars with u64(E), u65(E), & u66(E) bars. (The number of u60(E) & u61(E) bars shall equal the u6(E) bars for one face.)

ELEVATION (SHOWING REINFORCEMENT)
(Looking West)



PLAN

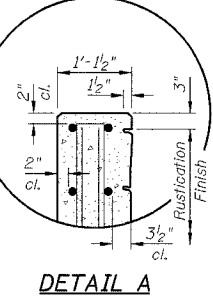
STEEL SOLDIER PILE INFORMATION CHART

Pile No.	Station	Offset to Ctr. of Pile	Pile Section	Top of Pile Elevation	Bottom of Pile Elevation	Finished Pile Length	Furnished Pile Length	No. of Stud Shear Connectors	Top of Class S1 Concrete Encasement Elevation
1	462+27.68	20.46' LT.	W27x178	570.25	534.50	35'-9"	36'-9"	28	551.00
2	462+35.02	20.46' LT.	W27x178	570.50	534.50	36'-0"	37'-0"	28	551.00
3	462+42.35	20.47' LT.	W27x178	571.00	534.50	36'-6"	37'-6"	28	551.00
4	462+49.68	20.47' LT.	W27x178	571.25	534.50	36'-9"	37'-9"	30	551.00
5	462+56.35	20.48' LT.	W27x178	571.25	534.50	36'-9"	37'-9"	30	551.00
6	462+63.68	20.48' LT.	W27x178	570.75	534.50	36'-3"	37'-3"	28	551.00
7	462+71.02	20.49' LT.	W27x178	570.25	535.50	34'-9"	35'-9"	28	551.00
8	462+78.35	20.49' LT.	W27x178	569.75	535.50	34'-3"	35'-3"	28	551.00
9	462+85.06	20.50' LT.	W27x178	569.50	535.50	34'-0"	35'-0"	26	550.00
10	462+92.39	20.50' LT.	W27x178	569.00	535.50	33'-6"	34'-6"	28	550.00
11	462+99.72	20.51' LT.	W27x178	568.75	535.50	33'-3"	34'-3"	28	550.00
12	463+07.06	20.51' LT.	W27x178	568.25	535.50	32'-9"	33'-9"	26	550.00
13	463+13.72	20.75' LT.	W21x147	568.00	535.50	32'-6"	33'-6"	26	550.00
14	463+21.06	20.76' LT.	W21x147	567.75	535.50	32'-3"	33'-3"	26	550.00
15	463+28.39	20.76' LT.	W21x147	567.25	535.50	31'-9"	32'-9"	26	550.00
16	463+35.87	20.76' LT.	W21x147	567.00	535.50	31'-6"	32'-6"	24	550.00

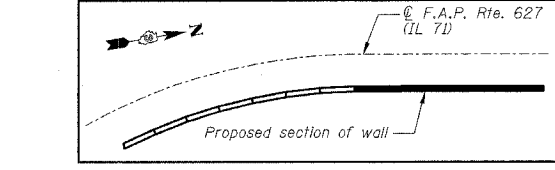
WALL INFORMATION CHART

Reference Points	Location at Wall	Station to Back Face of Wall	Offset to Back Face of Wall	Wall Height
A	Begin Wall	462+24.35	21.52' LT.	20'-3"
B	C.J.	462+53.02	21.54' LT.	21'-6"
C	E.J.	462+91.70	21.56' LT.	19'-9"
D	C.J.	463+10.39	21.58' LT.	19'-3"
E	E.J.	463+39.49	21.55' LT.	18'-0"

Note: See Plan for Reference Point locations.



DETAIL A



LOCATION MAP

DESIGNED BY: J.M.L.
 DRAWN BY: D.J.M.
 CHECKED BY: M.S.W.

Farnsworth GROUP
 2700 McCreary Drive
 Bloomington, Illinois 61704
 302/932-9435, 302/932-9712

FILE NO.: 24-6772
 DATE: 05-12-06
 SHEET NO.: 53 of 106

- NOTES:**
- 1.) Work this sheet with Sheets G1-G4.
 - 2.) E.F. denotes Each Face, E.J. denotes 1/2" Expansion Joint (unless otherwise noted), C.J. denotes Construction Joint.
 - 3.) For "Rustication Finish" details see Sheet G6.
 - 4.) Reinforcement bars designated (E) shall be epoxy coated.
 - 5.) Minimum lap length: #4 bar = 1'-8"
 #5 bar = 2'-5"
 - 6.) See Sheet G2 for Construction Joint Detail and Expansion Joint Detail.
 - 7.) The u60(E) & u61(E) bars shall maintain a 2" clearance from the top of the wall, therefore adjust u60(E) & u61(E) bars accordingly (maintain 1'-8" min. lap with u6(E) bars).

WALL REINFORCEMENT AND SOLDIER PILE INFORMATION

IL ROUTE 71

SOLDIER PILE RETAINING WALL

F.A.P. ROUTE 627 - SEC. (I-1) BR & I

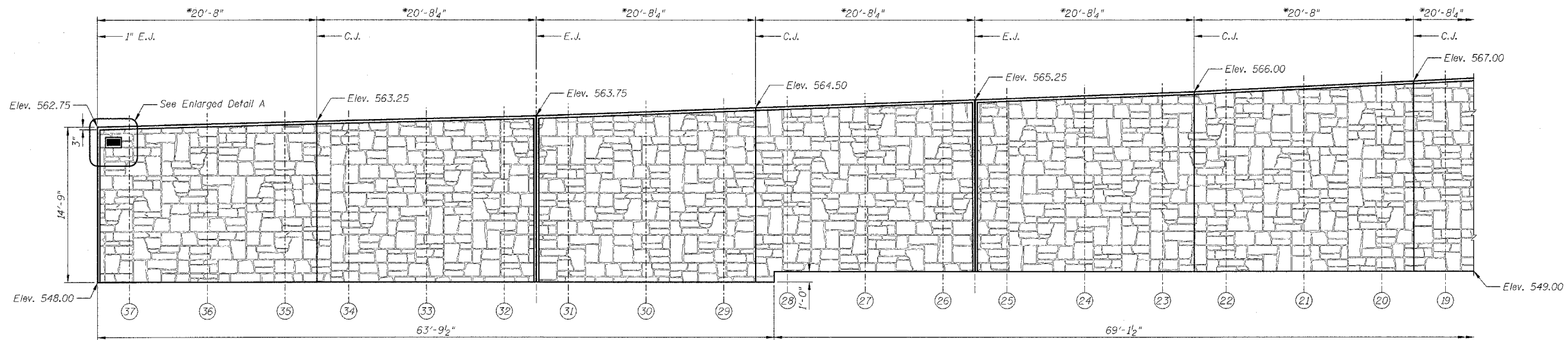
LA SALLE COUNTY

STATION 462+24.35 TO STATION 464+94.66

PROPOSED STRUCTURE NO. 050-W004

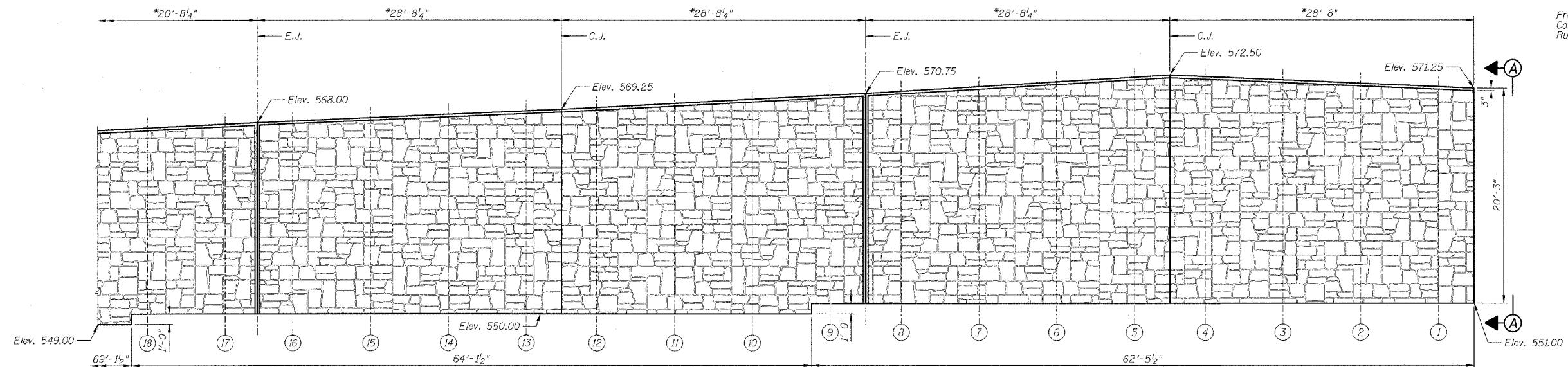
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 06
OF 12 SHEETS

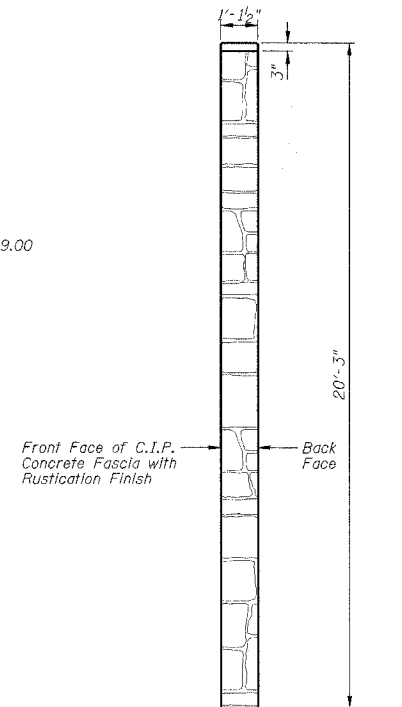


Note: *Dimensions taken from Front Face of Wall.

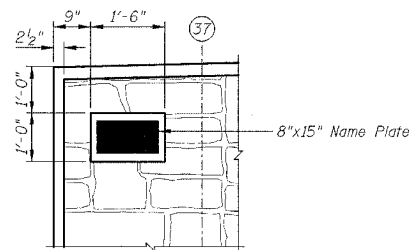
RUSTICATION FINISH ELEVATION
(Looking West)



RUSTICATION FINISH ELEVATION
(Looking West)



ENLARGED ELEVATION A-A



ENLARGED DETAIL A



EXAMPLE OF RUSTICATION PATTERN

Notes: Maximum Relief = 1/2"
Stone Size = 8"-25"

BILL OF MATERIALS

Item	Unit	Total
Protective Coat	Sq. Yd.	270
Rustication Finish	Sq. Ft.	4587

NOTES:

- 1.) Work this sheet with Sheets G1 thru G5 and G7.
- 2.) Limits of Rustication Finish extend from bottom of wall to 3" from the top of wall.

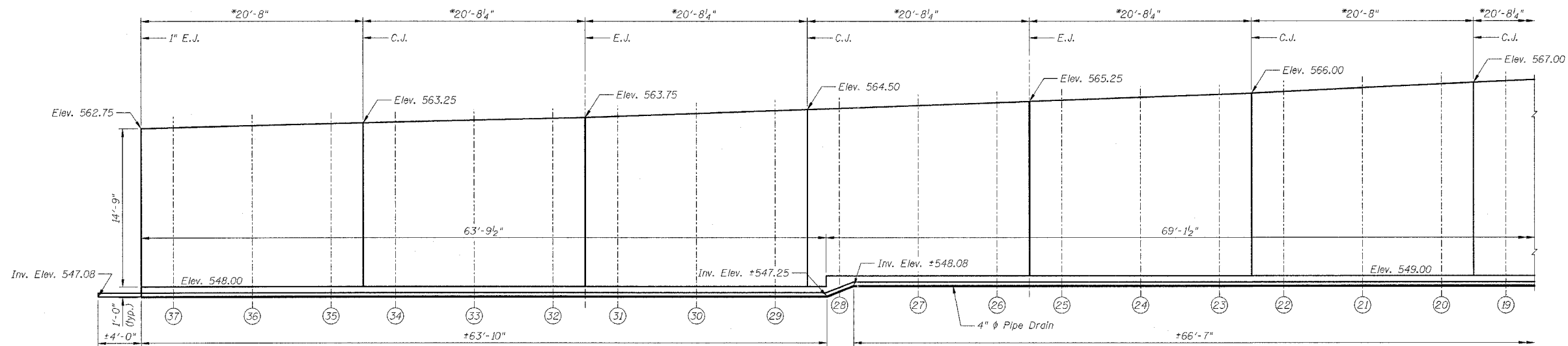
RUSTICATION FINISH DETAILS

IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

DESIGNED BY J.M.L.	<p>2700 McGraw Drive Washington, Illinois 61704 309/663-6425, 309/923-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 54 of 106

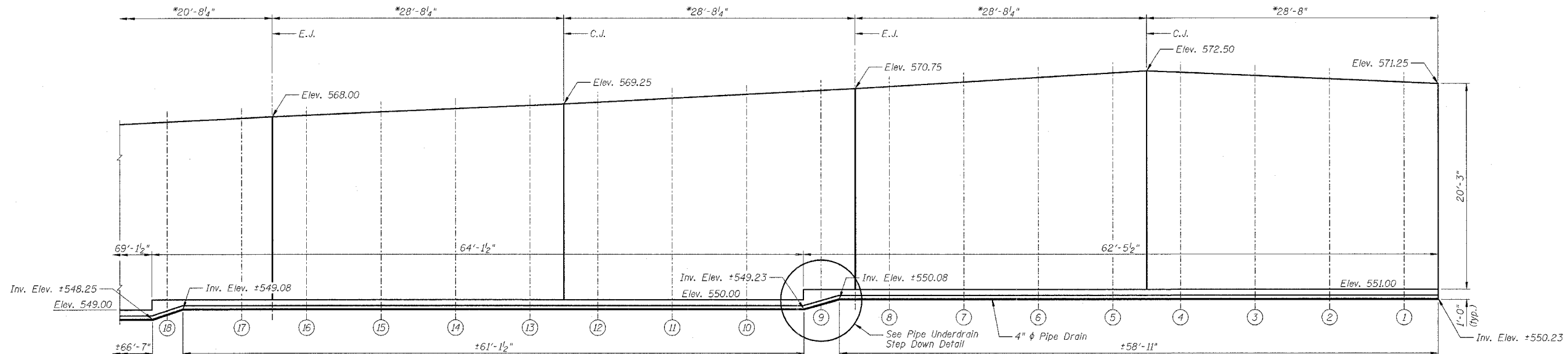
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	55
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 67
OF 12 SHEETS

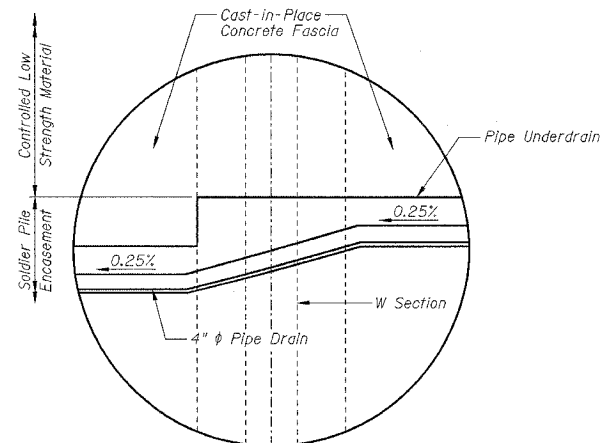


PIPE UNDERDRAIN ELEVATION
(Looking West)

Note: *Dimensions taken from Front Face of Wall.



PIPE UNDERDRAIN ELEVATION
(Looking West)



PIPE UNDERDRAIN STEP DOWN DETAIL

NOTE:
Work this sheet with Sheets G1 thru G6.

BILL OF MATERIALS

Item	Unit	Total
Pipe Underdrains for Structures 4"	Foot	265

PIPE UNDERDRAIN ELEVATION AND DETAIL
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

DESIGNED BY J.M.L.	<p>2706 McGraw Drive Bloomington, Illinois 61704 308/858-8636, 308/858-1571 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 55 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	56
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.				

SHEET NO. 68

OF 12 SHEETS



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Date 12/24/02

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL NEAR S.N. 050-2002 IN STARVED ROCK PARK LOGGED BY LM-IDOT
SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	H	W	S	T	ft	H	W	S	T
BORING NO. 21 hennepin canyon			Qu		Groundwater Elev.:				
Station 464+25.39					First Encounter				
Offset 6.50R LT					Upon Completion				
Ground Surface Elev. 563.18 ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	(ft)	(/6")	(tsf)	(%)
AUGERED BITUMINOUS PAVEMENT & BROWN STONE BASE					Hard Gray SHALE (continued)	9	-	10.3	
						20	-		
Very Stiff Green, Brown & Red Weathered SHALE (FILL)	4					13	-	9.2	
	8	3.0	15.8		Dense ST. PETER SANDSTONE	539.68	23	-	9.2
	11	P			End of Boring	539.18	100/2'	-	
Stiff Brown SILTY CLAY with Limestone Gravel Pieces	9					-25			
	4	1.5	27.4						
	3	P							
	3								
	5	2.0	22.4						
	3	P							
BLACK COAL	4					-30			
	4								
	5		81.8						
Hard Gray UNDERCLAY WITH INTERBEDDED COAL & LIMONITE VEINS	14					-35			
	20	4.5	11.6						
	21	P							
	10								
	14		7.3						
	21								
Brown Weathered SANDSTONE	9								
	10		7.8						
	13								
Hard Gray SHALE						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Date 12/24/02

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL NEAR S.N. 050-2002 IN STARVED ROCK PARK LOGGED BY LM-IDOT
SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	D	B	U	M	Surface Water Elev.	D	B	U	M
Station	H	W	S	T	ft	H	W	S	T
BORING NO. 22 hennepin canyon			Qu		Groundwater Elev.:				
Station 463+46.39					First Encounter				
Offset 6.00R LT					Upon Completion				
Ground Surface Elev. 566.78 ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	(ft)	(/6")	(tsf)	(%)
AUGERED BITUMINOUS PAVEMENT OVER BROWN SILTY CLAY LOAM					Medium Gray & Brown SILTY CLAY with Pieces of COAL (FILL)				
						3			
						2	1.0		
						3	P		
						2	0.5	44.9	
						2	B		
						3			
						2	0.5	31.9	
						3	0.5	38.2	
Medium Red & Brown SILTY CLAY with Pieces of Red SHALE & COAL						2			
						3	1.0	22.6	
						1	P		
						2	1.0	25.7	
BLACK COAL						2		78.1	
Very Stiff Brown & Gray Weathered CLAY SHALE with Pieces of COAL						6			
						11	3.5	15.5	
						12	P		
Weathered Gray SHALE						9			
						19		11.3	
						37			
AUGER REFUSAL on Brown & Weathered SANDSTONE						150/3'		7.6	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

DESIGNED BY <u>J.M.L.</u>	<p>FARNSWORTH GROUP 5700 McDear Drive Bloomington, Illinois 61704 308/888-3436, 308/888-1571 Fax</p>	FILE NO. <u>24-6772</u>
DRAWN BY <u>D.J.M.</u>		DATE <u>05-12-06</u>
CHECKED BY <u>M.S.W.</u>		SHEET NO. <u>56 of 106</u>

SOIL BORING LOGS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	58
STA. TO STA.		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		

SHEET NO. 610

OF 12 SHEETS



SOIL BORING LOG

Page 2 of 2

Date 4/8/05

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL AT HENNEPIN CANYON LOGGED BY LM
 (M)W&RS,(I-1,D)R,W,&RS
 SECTION STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	
					ft	ft
BORING NO. <u>24 hennepin canyon</u> Station <u>461+95</u> Offset <u>6.00ft LT</u> Ground Surface Elev. <u>574.74</u> ft	(ft)	(/ft)	(tsf)	(%)	Surface Water Elev.	ft
					Stream Bed Elev.	ft
					Groundwater Elev.:	
					First Encounter	ft
					Upon Completion	ft
					After Hrs.	ft
Hard White and Brown Weathered Sandstone (St Pete)	100/3"		3.4			
non weathered around 37'-38'						
Auger Refusal at 42' (continued)	100/2"		3.0			
End of Boring	531.24					
	-45					
	-50					
	-55					
	-60					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Page 1 of 1

Date 4/8/05

ROUTE FAP 627(IL71) DESCRIPTION RETAINING WALL AT HENNEPIN CANYON LOGGED BY LM
 (M)W&RS,(I-1,D)R,W,&RS
 SECTION STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. Station	D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev.	
					ft	ft
BORING NO. <u>25 hennepin canyon</u> Station <u>463+81.39</u> Offset <u>6.00ft LT</u> Ground Surface Elev. <u>564.39</u> ft	(ft)	(/ft)	(tsf)	(%)	Surface Water Elev.	ft
					Stream Bed Elev.	ft
					Groundwater Elev.:	
					First Encounter	ft
					Upon Completion	ft
					After Hrs.	ft
Hard Gray Shale with Limonite Seams	6					
	13	>4.5	10.5			
	25	P				
	18					
	85	>4.5	6.7			
	100/3"	P				
	-25					
	-5					
	538.89	100/4"				
White And Brown Sandstone (St Pete)			9.8			
Auger Refusal At 30"						
	100/2"		3.5			
	-30					
	100/2"		3.2			
End of Boring	532.89					
	-35					
	549.39	15	6			
Hard Gray Clay Shale with Limonite Layers	12	>4.5	17.3			
	29	P				
	547.39					
Very Dense Brown Weathered SandStone	20		13.4			
	50					
	100					
	544.39	20				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

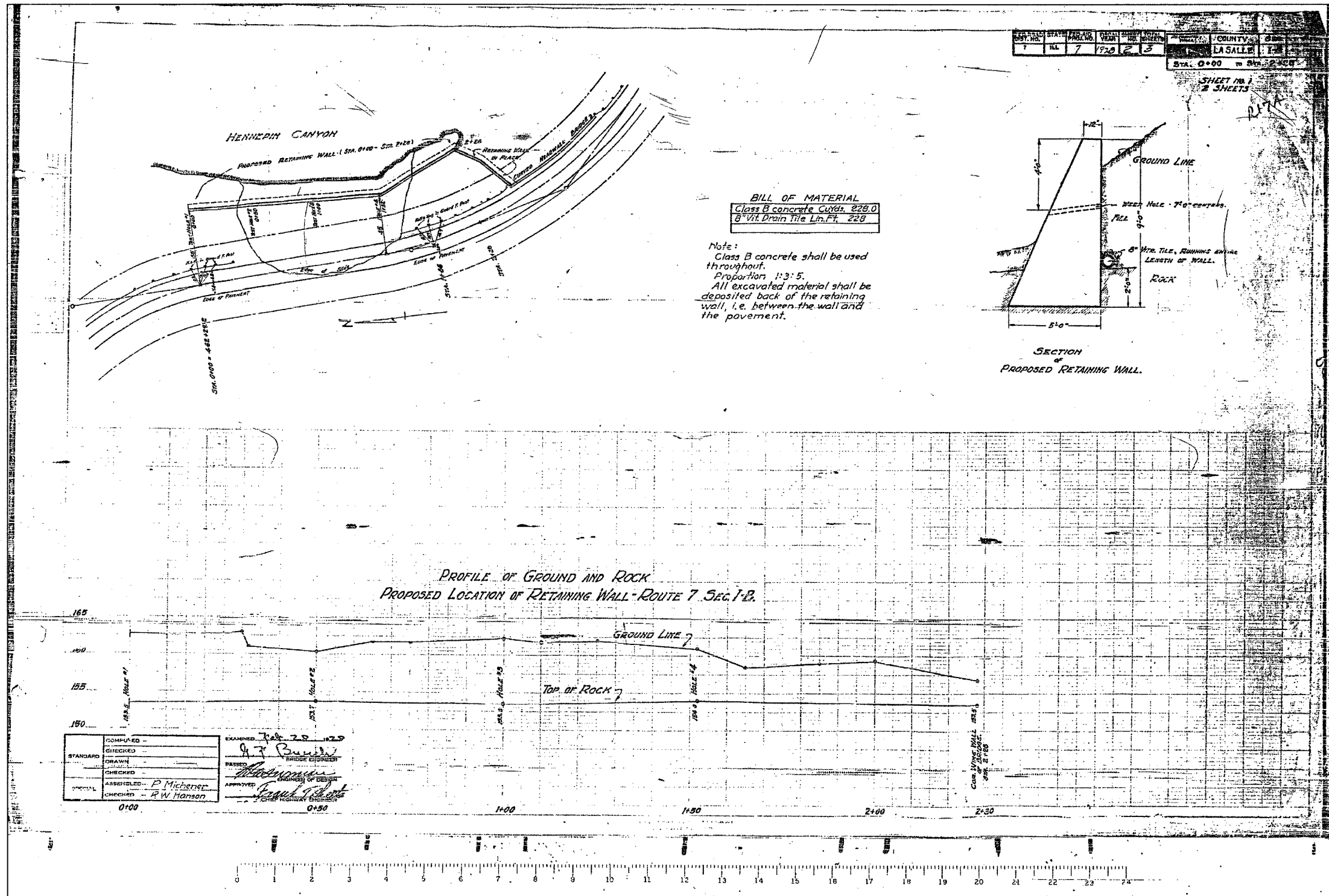
DESIGNED BY <u>J.M.L.</u>	<p>2700 McGraw Drive Bloomington, Illinois 61704 302/953-9435, 302/953-1671 fax</p>	FILE NO. <u>24-6772</u>
DRAWN BY <u>D.J.M.</u>		DATE <u>05-12-06</u>
CHECKED BY <u>M.S.W.</u>		SHEET NO. <u>58 of 106</u>

SOIL BORING LOGS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	59
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. 611

OF 12 SHEETS



FOR INFORMATIONAL USE ONLY

EXISTING PLANS
 IL ROUTE 71
 SOLDIER PILE RETAINING WALL
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 462+24.35 TO STATION 464+94.66
 PROPOSED STRUCTURE NO. 050-W004

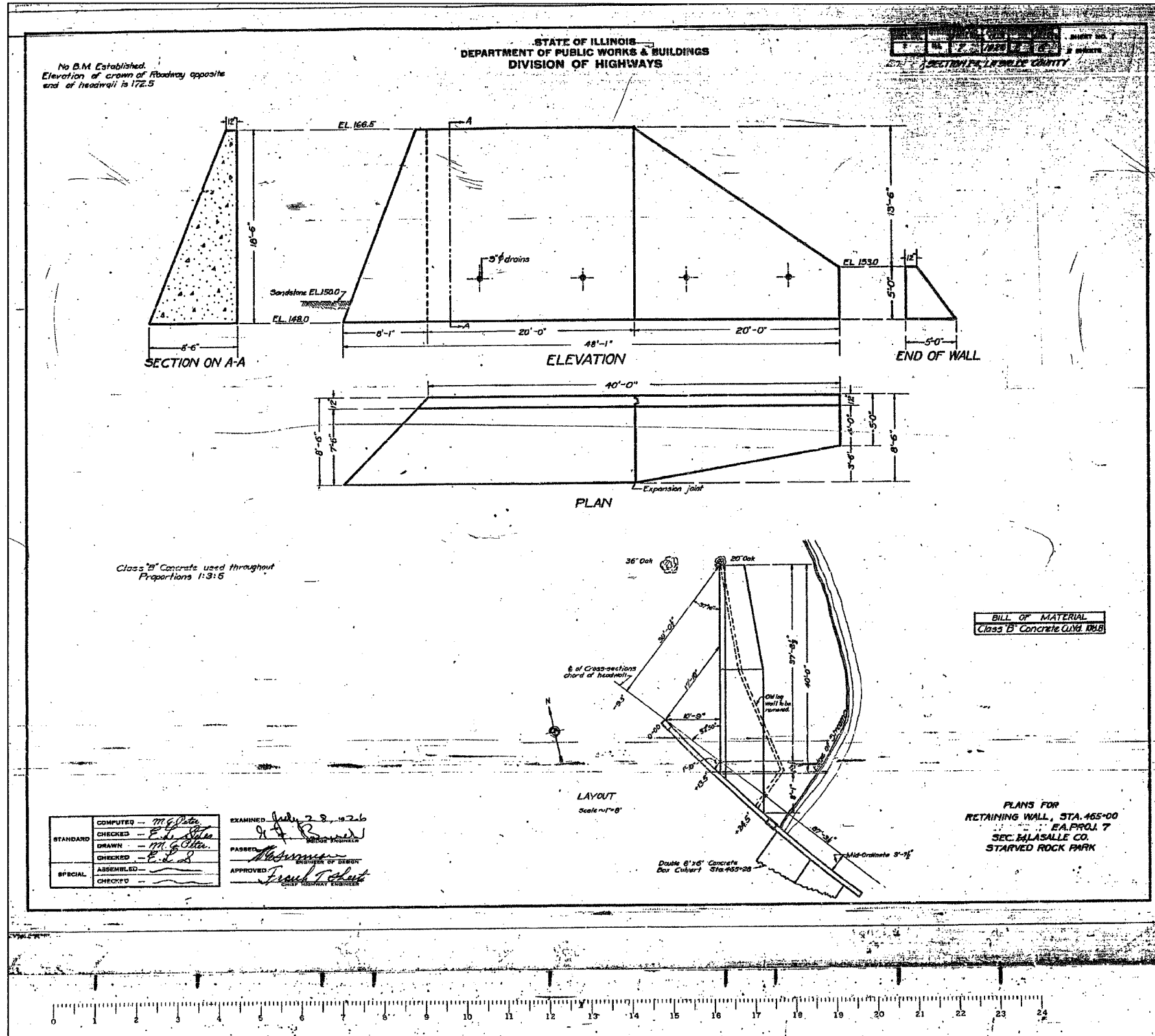
DESIGNED BY: J.M.L.
 DRAWN BY: D.J.M.
 CHECKED BY: M.S.W.

Farnsworth GROUP
 2700 Midway Drive
 Bloomington, Illinois 61704
 309/668-8488, 309/983-1871 Fax

FILE NO. 24-6772
 DATE 05-12-06
 SHEET NO. 59 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	60
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. 612
OF 12 SHEETS



FOR INFORMATIONAL
USE ONLY

EXISTING PLANS
IL ROUTE 71
SOLDIER PILE RETAINING WALL
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 462+24.35 TO STATION 464+94.66
PROPOSED STRUCTURE NO. 050-W004

DESIGNED BY <i>J.M.L.</i>	Farnsworth GROUP 2700 Midway Drive Bloomington, Illinois 61704 309/983-2435, 309/983-1671 fax	FILE NO. 24-6772	
DRAWN BY <i>D.J.M.</i>		DATE 05-12-06	
CHECKED BY <i>M.S.W.</i>		SHEET NO. 60 of 106	

Benchmarks: 1.) Chiseled "□" at S.E. corner of structure on top of safety barrier @ Sta. 465+71.92/13.81' LT Elevation = 563.63.
 2.) Top of guardrail post on the West side of IL Rte. 71 @ back center of the 10th post North from the South end of the rail @ Station 467+60.33/14.84' RT., Elevation = 572.99.

Existing Structure: Structure No. 050-2002, built 1922, Section I-1 of Station 465+27.36 and carries F.A.P. 627 (IL 71) over tributary to Illinois River. Consists of a double barrel 8'x8' reinforced concrete box culvert with wingwalls parallel to the roadway and the out to out of headwall length = 52'-6". The downstream headwall (retaining wall) is approximately 24'-6" high and 87'-9" long. An adjoining +400' retaining wall was constructed between the roadway and the public trail in the state park. Traffic will be maintained during construction via detour routes.

No Salvage.

PROPOSED S.E. TRANSITION DATA

Tan Runoff:	Sta. 462+69.45 to Sta. 462+83.45
S.E. Runoff:	Sta. 462+83.45 to Sta. 464+83.45
Full S.E.:	Sta. 464+83.45 to Sta. 465+71.96
S.E. Runoff:	Sta. 465+71.96 to Sta. 466+71.96
Tan Runoff:	Sta. 466+71.96 to Sta. 466+85.96

HORIZONTAL CURVE DATA

P.I. STA. = 464+75.79
 $\Delta = 45^\circ 36'$
 $D = 16^\circ 55' 20''$
 $R = 338.61'$
 $L = 142.34'$
 $T = 269.49'$
 $E = 28.7'$
 $S.E. = 0.04'/ft.$
 P.C. STA. = 463+33.45
 P.T. STA. = 466+02.94

DESIGN SPECIFICATIONS

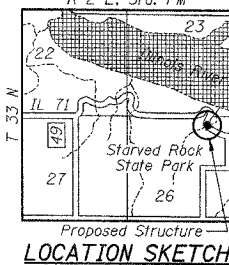
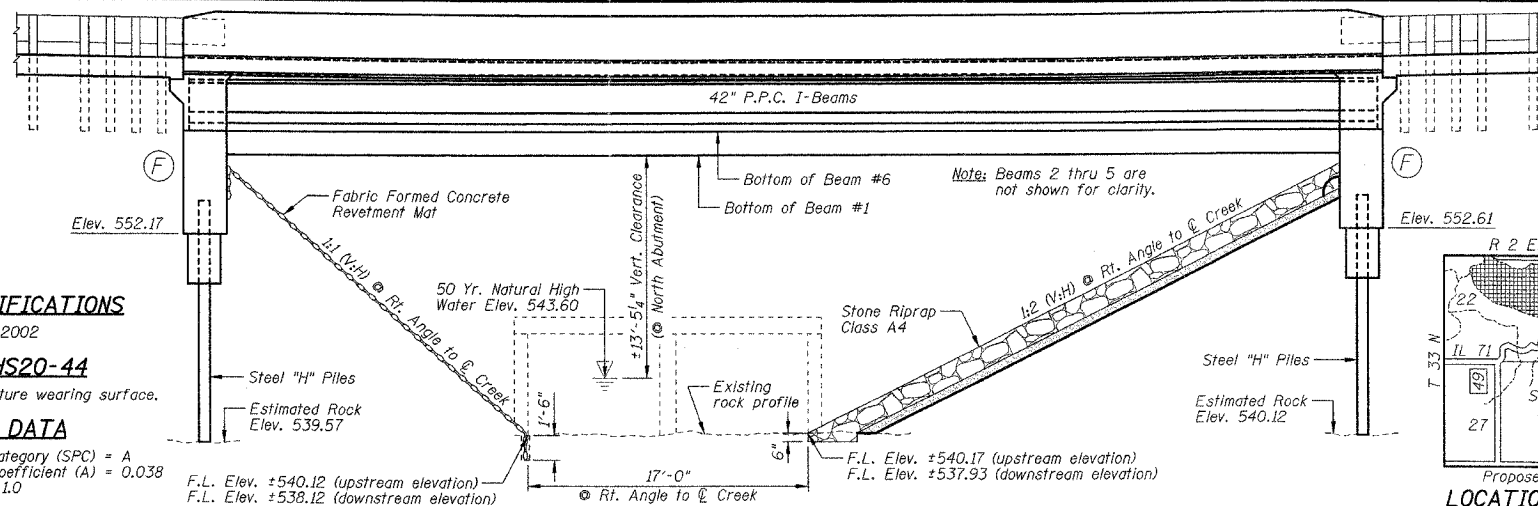
AASHTO 2002

LOADING HS20-44

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

SEISMIC DATA

Seismic Performance Category (SPC) = A
 Bedrock Acceleration Coefficient (A) = 0.038
 Site Coefficient (S) = 1.0

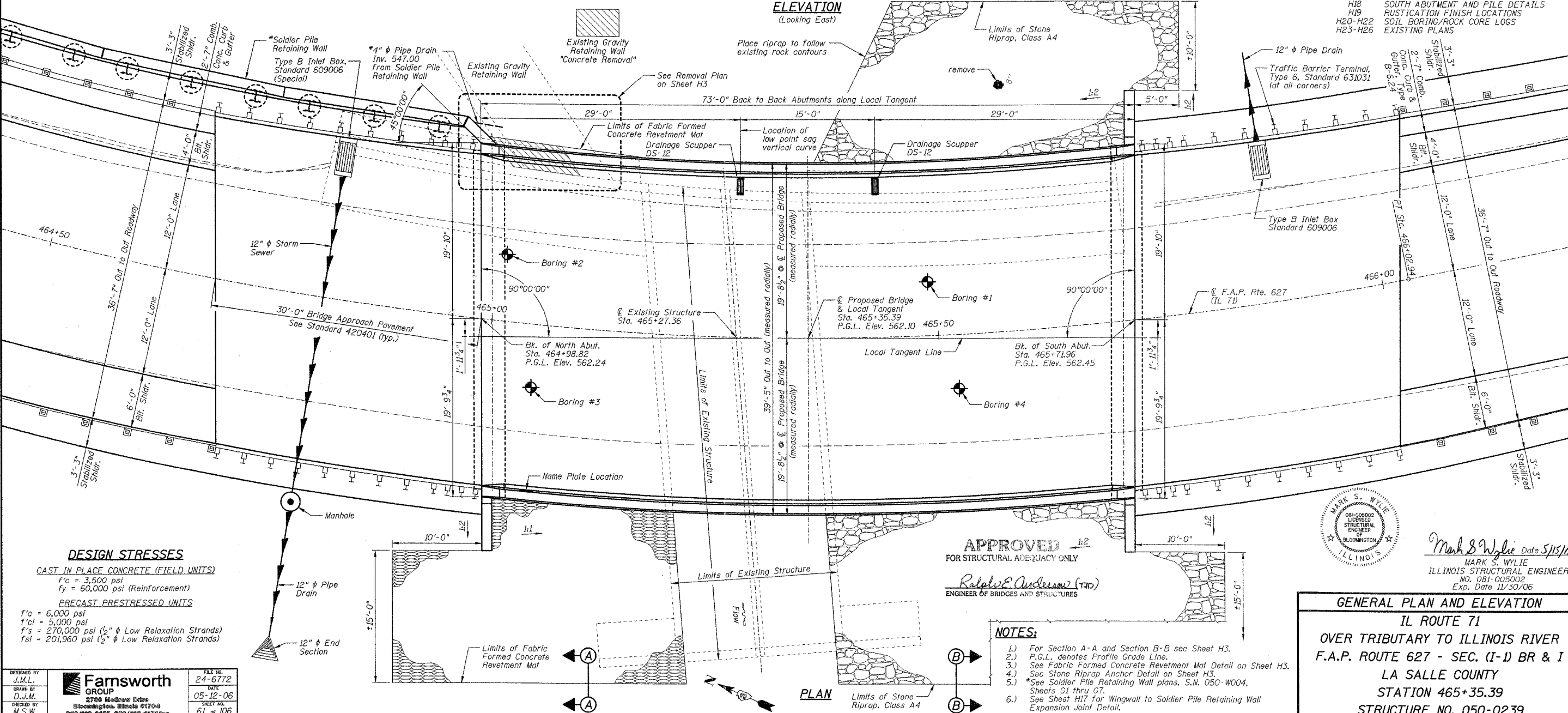


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	61

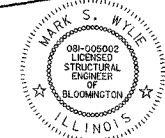
INDEX TO SHEETS

SHEET NO.	TITLE
H1	GENERAL PLAN AND ELEVATION
H2	GENERAL NOTES, BILL OF MATERIALS AND SUBSTRUCTURE LAYOUT PLAN
H3	MISCELLANEOUS PLAN, SECTIONS AND DETAILS
H4	BAR SPLICER ASSEMBLY DETAILS
H5	ELEVATION LOCATIONS AND DEAD LOAD DEFLECTION DIAGRAM
H6	TOP OF SLAB ELEVATIONS
H7-H8	SUPERSTRUCTURE DECK
H9	SUPERSTRUCTURE CROSS SECTION
H10	SUPERSTRUCTURE DETAILS, PARAPET DETAILS AND BILL OF MATERIALS
H11	DRAINAGE SCUPPER, DS-12
H12	DIAPHRAGM DETAILS - NORTH ABUTMENT
H13	DIAPHRAGM DETAILS - SOUTH ABUTMENT
H14	FRAMING PLAN
H15	42\"/>

ELEVATION (Looking East)



APPROVED
 FOR STRUCTURAL ADEQUACY ONLY
 Ralph E. Anderson (TND)
 ENGINEER OF BRIDGES AND STRUCTURES



Mark S. Wylie Date 5/15/06
 MARK S. WYLIE
 ILLINOIS STRUCTURAL ENGINEER
 No. 081-005002
 Exp. Date 11/30/06

DESIGN STRESSES
 CAST IN PLACE CONCRETE (FIELD UNITS)
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 PRECAST PRESTRESSED UNITS
 $f'_c = 6,000$ psi
 $f'_ci = 5,000$ psi
 $f'_s = 270,000$ psi ($\frac{1}{2}$ " ϕ Low Relaxation Strands)
 $f_{sl} = 201,960$ psi ($\frac{1}{2}$ " ϕ Low Relaxation Strands)

- NOTES:**
- 1.) For Section A-A and Section B-B see Sheet H3.
 - 2.) P.G.L. denotes Profile Grade Line.
 - 3.) See Fabric Formed Concrete Revetment Mat Detail on Sheet H3.
 - 4.) See Stone Riprap Anchor Detail on Sheet H3.
 - 5.) See Soldier Pile Retaining Wall plans, S.N. 050-W004, Sheets G1 thru G7.
 - 6.) See Sheet H17 for Wingwall to Soldier Pile Retaining Wall Expansion Joint Detail.

DESIGNED BY: J.M.L.
 DRAWN BY: D.J.M.
 CHECKED BY: M.S.W.

Farnsworth GROUP
 2700 Woodrow Drive
 Bloomington, Illinois 61704
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FILE NO. 24-6772
 DATE 05-12-06
 SHEET NO. 61 OF 106

GENERAL PLAN AND ELEVATION
 IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+35.39
 STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	62
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		SHEET NO. H2		

OF 26 SHEETS

WATERWAY INFORMATION

Drainage Area (Sq. Mi.) = 0.42 Existing Low Grade Elevation = 561.4 ft. @ Sta. 465+35
Proposed Low Grade Elevation = 562.1 ft. @ Sta. 465+28

Flood Year	Freq. C.F.S.	Q	Opening (Sq. Ft.)	Ex. Natl Pr. Nat.	Head-Ft. Exist. Prop.	Headwater EL. Exist. Prop.
10	310	41	53	544.00/542.80	0.20/0.00	544.20/542.80
Design	50	499	52	544.90/543.60	0.60/0.00	545.50/543.60
Base	100	581	56	545.30/544.00	0.80/0.00	546.10/544.00
Overtopping						
Max. Calc.	500	779	67	546.20/544.90	1.50/0.00	547.70/544.90

TOTAL BILL OF MATERIALS

ITEMS	UNITS	SUPER	SUB	TOTAL
Porous Granular Embankment (Special)	Cu Yd		188	188
Stone Riprap, Class A4	Sq Yd		338	338
Filter Fabric	Sq Yd		338	338
Fabric Formed Concrete Revetment Mats	Sq Yd		201	201
Removal of Existing Structures No. 3	Each	1		1
Concrete Removal	Cu Yd		6.2	6.2
Structure Excavation	Cu Yd		2210	2210
Rock Excavation for Structures	Cu Yd		9	9
Concrete Structures	Cu Yd		50.4	50.4
Concrete Superstructure	Cu Yd	122.9		122.9
Bridge Deck Grooving	Sq Yd	277		277
Protective Coat	Sq Yd	356		356
Rustication Finish	Sq Ft	345	696	1041
Furnishing And Erecting Precast Prestressed Concrete I-Beams, 42"	Foot	434		434
Reinforcement Bars, Epoxy Coated	Pound	21450	6380	27830
Furnishing Steel Piles HP 12x63	Foot		150	150
Driving Steel Piles	Foot		150	150
Test Pile Steel HP 12x63	Each		2	2
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq Yd		89	89
Pipe Underdrains for Structures, 4"	Foot		104	104
Bar Splacers	Each	72		72
Drainage Scuppers, DS-12	Each	2		2

FABRIC FORMED CONCRETE REVETMENT MAT LOCATION

Location	Station	Offset Distance
A	464+97.41	20.50' LT.
B	465+16.24	19.72' LT.
C	465+23.12	39.09' RT.
D	464+93.89	41.70' RT.
E	464+92.19	26.82' RT.
F	465+01.41	25.68' RT.

Note: Stations and offsets for the Fabric Formed Concrete Revetment Mat are from the roadway centerline.

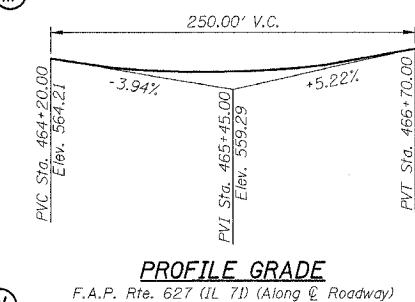
STONE RIPRAP LOCATION

Location	Station	Offset Distance
G	465+34.63	16.83' LT.
H	465+46.01	37.66' LT.
I	465+81.82	34.95' LT.
J	465+80.34	25.05' LT.
K	465+74.98	25.67' LT.
L	465+69.38	25.68' RT.
M	465+78.60	26.82' RT.
N	465+76.90	41.70' RT.
O	465+38.41	38.86' RT.

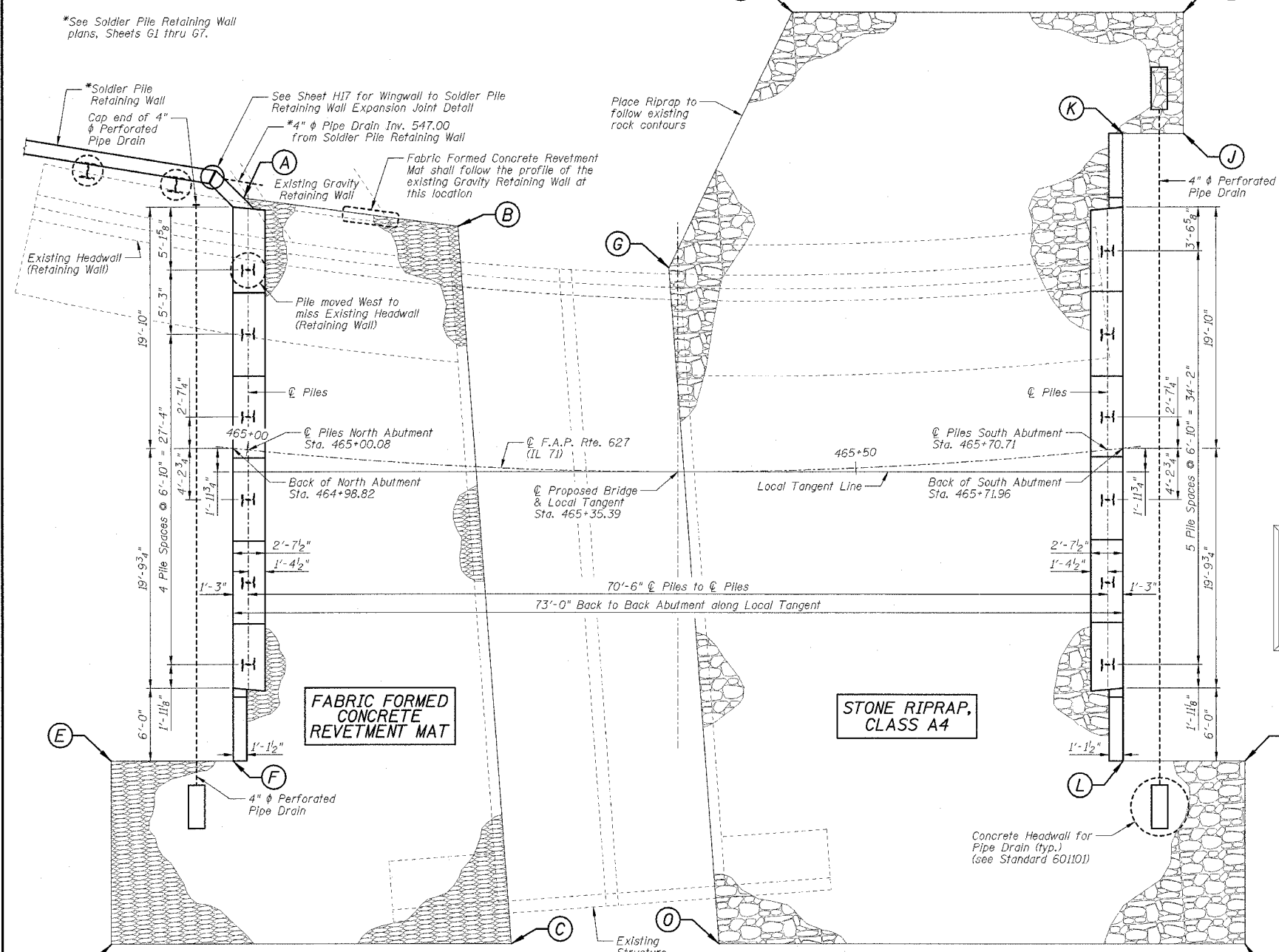
Note: Stations and offsets for the Stone Riprap, Class A4 are from the roadway centerline.

STATION 465+35.39
BUILT 200_ BY
STATE OF ILLINOIS
F.A.P. RTE. 627 SECTION (I-1) BR & I
LOADING HS20
STR. NO. 050-0239

NAME PLATE DETAIL
See Standard 515001

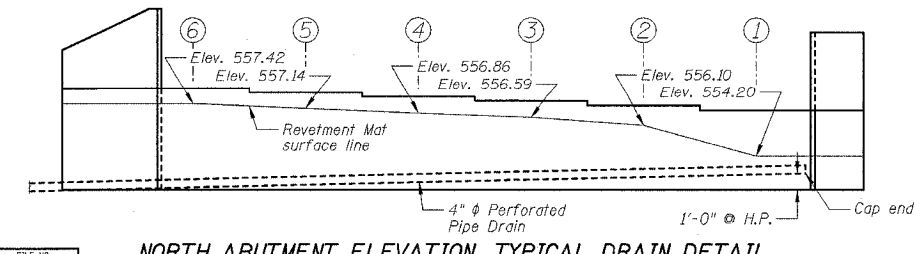


PROFILE GRADE
F.A.P. Rte. 627 (IL 71) (Along Roadway)

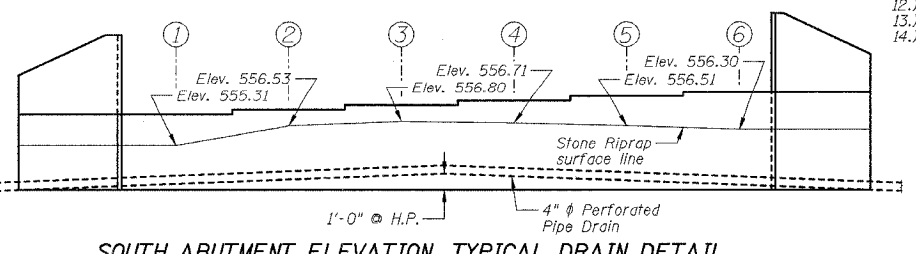


SUBSTRUCTURE, STONE RIPRAP AND FABRIC FORMED CONCRETE REVETMENT MAT LAYOUT PLAN

Note: Pile Spacing is the same for both Abutments unless otherwise noted.



NORTH ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL



SOUTH ABUTMENT ELEVATION, TYPICAL DRAIN DETAIL

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

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FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 62 of 106

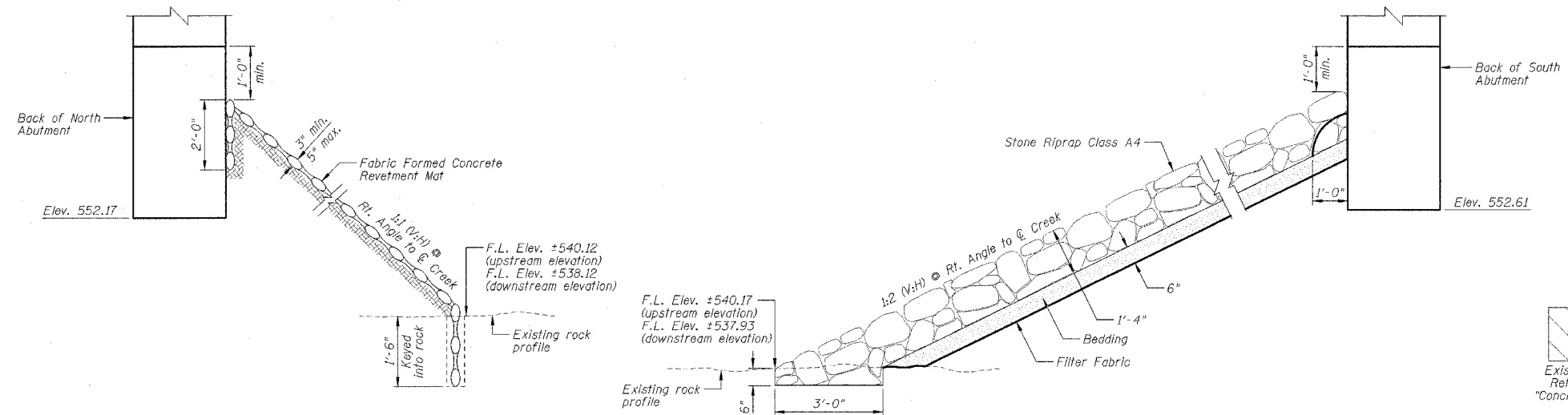
- GENERAL NOTES:**
- 1.) Reinforcement bars shall conform to the requirements of AASHTO M31 or M322 Grade 60.
 - 2.) Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 - 3.) The Contractor shall drive one Test Pile at each abutment in a permanent location as directed by the Engineer before ordering the remainder of piles.
 - 4.) All construction joints shall be bonded.
 - 5.) Plan dimensions and details relative to existing gravity wall structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price for the work.
 - 6.) It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Concrete Structures".
 - 7.) See Sheets H20 through H22 for soil boring and rock core data.
 - 8.) See Sheet H19 for the limits of "Rustication Finish". For information on the approved form liner for the "Rustication Finish", see the Special Provisions.
 - 9.) All Precast and Cast-in-Place Concrete shall be integrally colored. For information on the approved color additive for "Integrally Colored Precast Concrete" and "Integrally Colored Cast-in-Place Concrete", see the Special Provisions.
 - 10.) Removal of the Existing Gravity Retaining Wall may be varied in the field to suit the construction requirements as directed by the Engineer.
 - 11.) Removal of the Existing Headwall (Retaining Wall) may be varied in the field to suit the construction requirements as directed by the Engineer.
 - 12.) All exposed edges shall be chamfered 3/4" except as noted.
 - 13.) C.I.P. denotes Cast-In-Place.
 - 14.) The existing plans are provided for informational use only.

GENERAL NOTES, BILL OF MATERIALS AND SUBSTRUCTURE LAYOUT PLAN

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	63
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

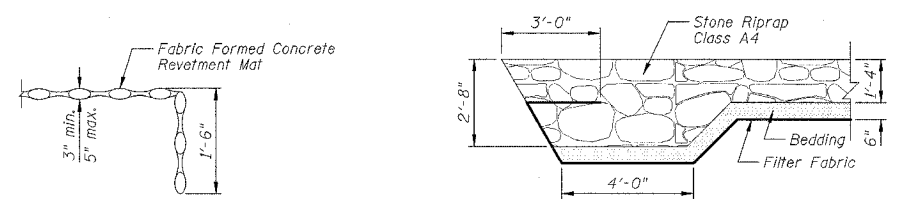
SHEET NO. H3
OF 26 SHEETS



FABRIC FORMED CONCRETE REVETMENT MAT DETAIL

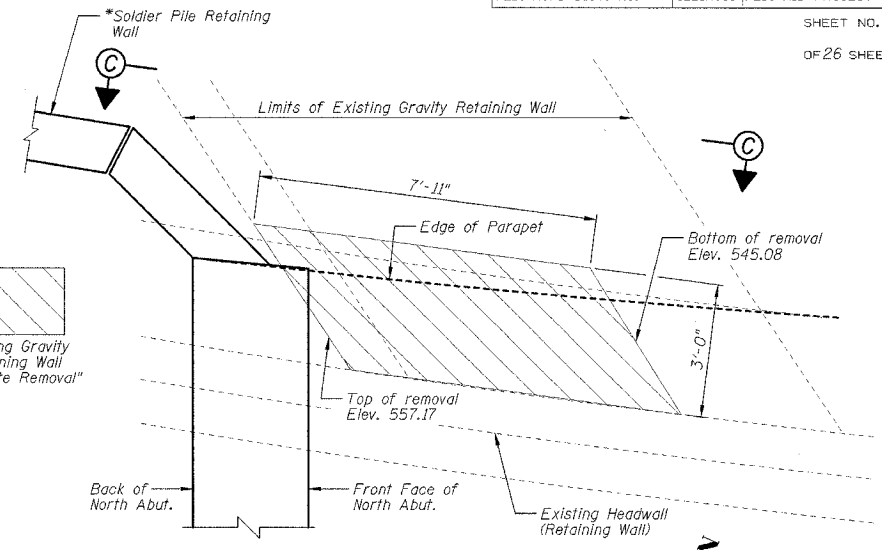
STONE RIPRAP ANCHOR DETAIL

Note: Key riprap into sound rock a minimum of 6". The cost to construct the toe is included in the unit cost bid for Stone Riprap Class A4.



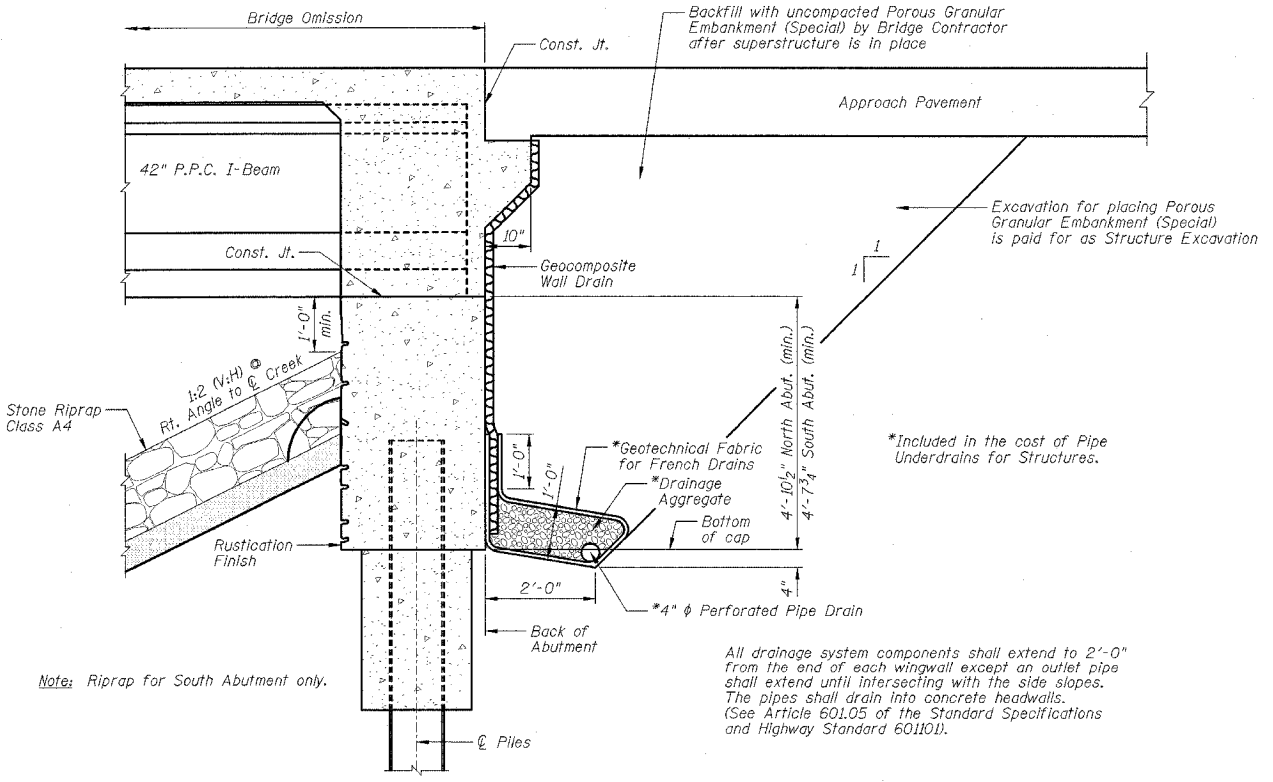
SECTION A-A

SECTION B-B



REMOVAL PLAN

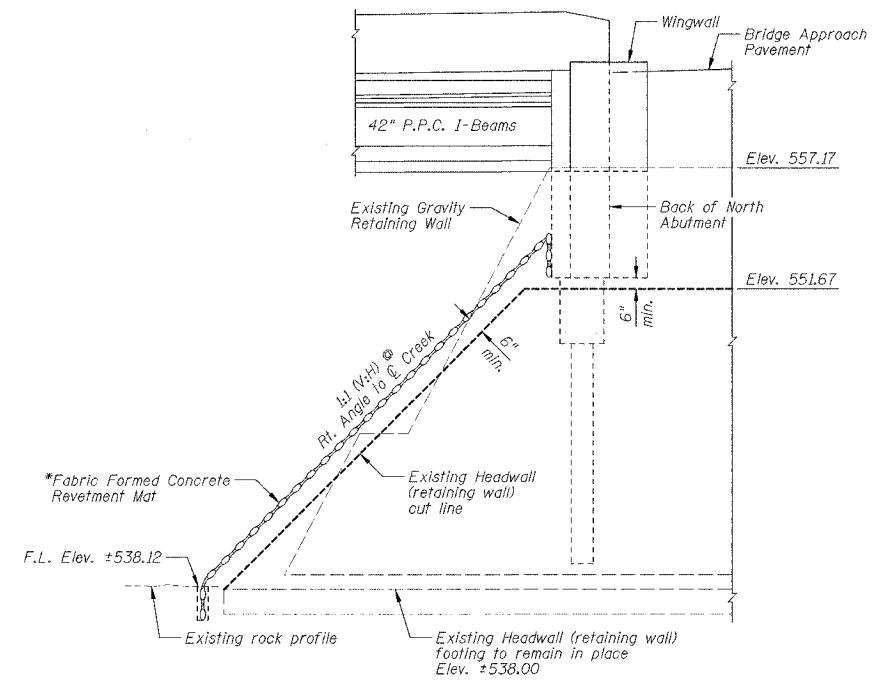
Note: See "Concrete Removal - Isometric View" for dimensions of existing Gravity Retaining Wall "Concrete Removal".



SECTION THRU ABUTMENT

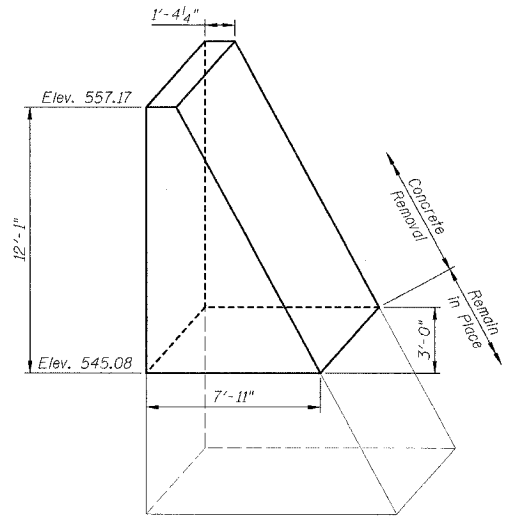
Note: Riprap for South Abutment only.

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



SECTION C-C

*To be placed over the top of the existing retaining wall.



CONCRETE REMOVAL - ISOMETRIC VIEW
(Existing Gravity Retaining Wall)

BILL OF MATERIAL

Item	Unit	Total
Concrete Removal	Cu. Yd.	6.2

NOTES:

- 1.) For location of Section A-A and Section B-B see Sheet H1.
- 2.) For location of Removal Plan see Sheet H1.
- 3.) *See Soldier Pile Retaining Wall plans, S.N. 050-W004, Sheets G1 thru G7.
- 4.) See Sheet H19 for "Rustication Finish" locations.

**MISCELLANEOUS PLAN,
SECTIONS AND DETAILS**

**IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239**

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
2706 McGraw Drive
Bloomington, Illinois 61704
309/992-8455 309/959-9871 fax

FILE NO.: 24-6772
DATE: 05-12-06
SHEET NO.: 63 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	64
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

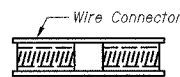
SHEET NO. H4
OF 26 SHEETS

The diameter of this part is the same as the diameter of the bar spliced. The diameter of this part is equal or larger than the diameter of bar spliced.

ROLLED THREAD DOWEL BAR



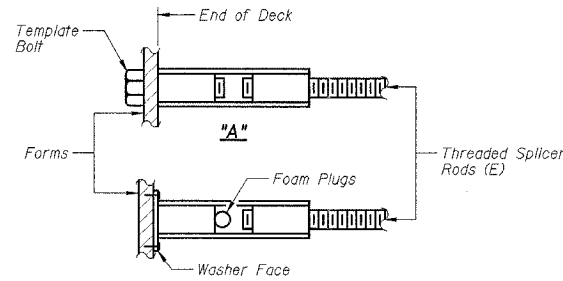
**** ONE PIECE**



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

** Heavy Hex Nuts conforming to ASTM A 563, Grade C, D or DH may be used.



"B"

INSTALLATION AND SETTING METHODS

"A": Set bar splicer assembly by means of a template bolt.
"B": Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
(E) : Indicates epoxy coating.

NOTES:

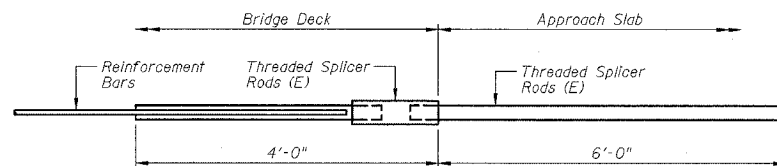
Bar splicer assemblies shall be of an approved type and shall develop in tension at least 125 percent of the yield strength of the lapped reinforcement bars.
Splicer rods shall be of minimum 60 ksi yield strength, threaded full length.
All reinforcement bars shall be lapped and tied to the splicer rods or dowel bars.
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars.
Other systems of similar design may be submitted to the Engineer for approval. Approval shall be based on certified test results from an approved testing laboratory that the proposed bar splicer assembly satisfies the following requirements:

- ① Minimum Capacity (Tension in kips) = $1.25 \times f_y \times A_t$
- ② Minimum *Pull-out Strength (Tension in kips) = $1.25 \times f_{s_{allow}} \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 $f_{s_{allow}}$ = Allowable tensile stress in lapped reinforcement bars in ksi (Service Load)
 A_t = Tensile stress area of lapped reinforcement bars.
* = 28 day concrete

Bar Size to be Spliced	Splicer Rod or Dowel Bar Length	Strength Requirements	
		Min. Capacity kips - tension	Min. Pull-Out Strength kips - tension
#4	1'-8"	14.7	5.9
#5	2'-0"	23.0	9.2
#6	2'-7"	33.1	13.3
#7	3'-5"	45.1	18.0
#8	4'-6"	58.9	23.6
#9	5'-9"	75.0	30.0
#10	7'-3"	95.0	38.0
#11	9'-0"	117.4	46.8

Bar splicer assemblies shall be according to Section 508 of the Standard Specifications, except as noted. The furnishing and installation of bar splicer assemblies will be measured and paid for at the contract unit price each for "BAR SPLICERS."



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar
Min. Capacity = 23.0 kips - tension
Min. Pull-out Strength = 9.2 kips - tension
No. Required = 72

BSD-1 10-22-04

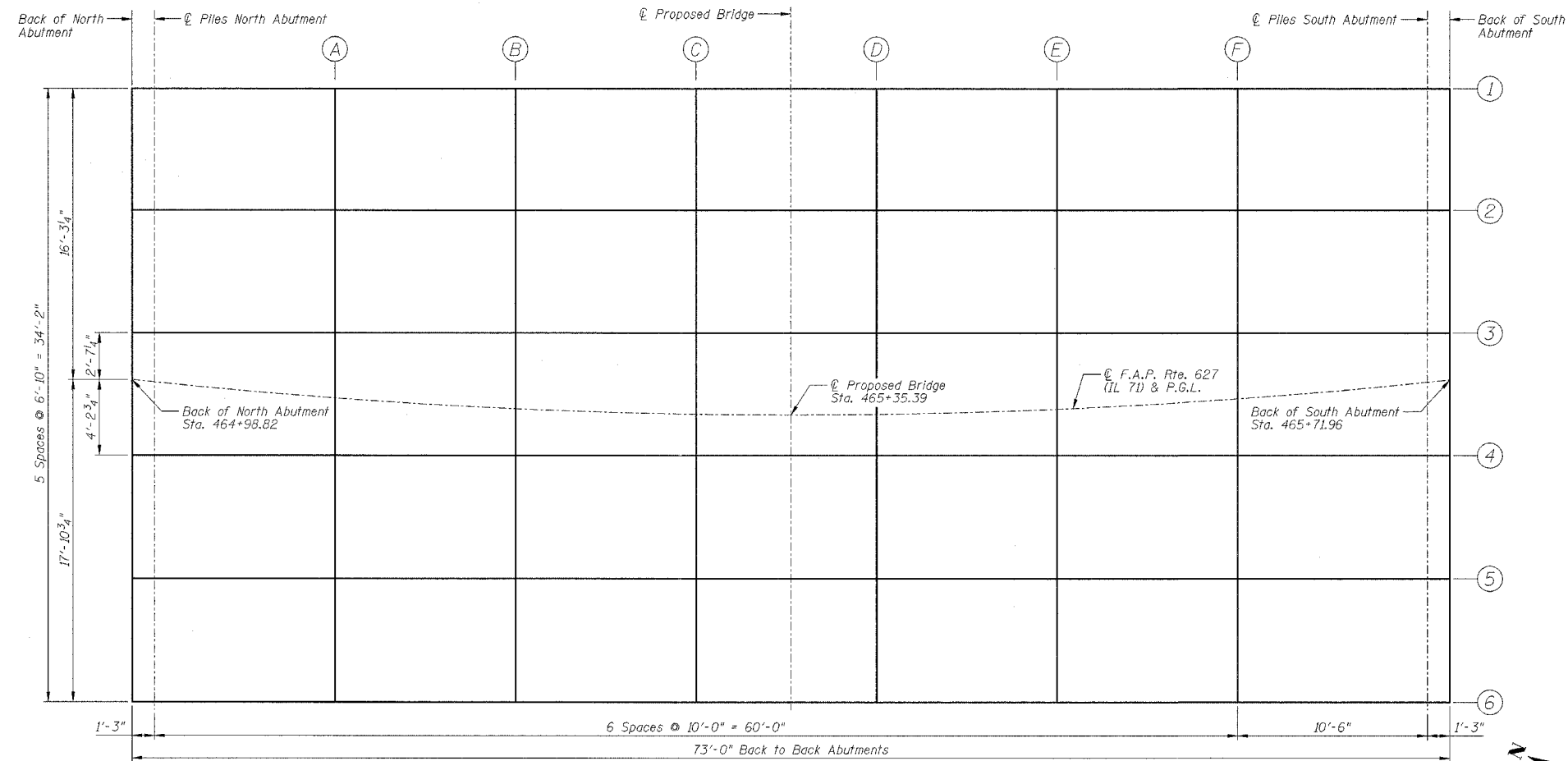
DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/963-6455 309/953-8774 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 64 of 106

BAR SPLICER ASSEMBLY DETAILS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

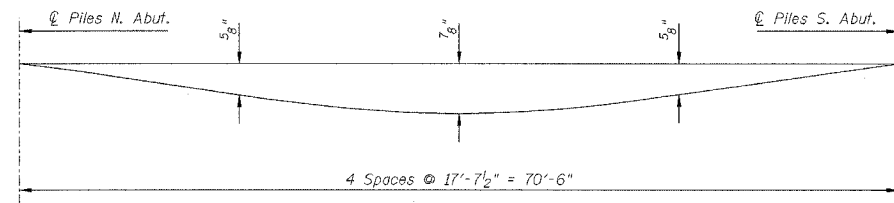
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	65
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. H5

OF 26 SHEETS



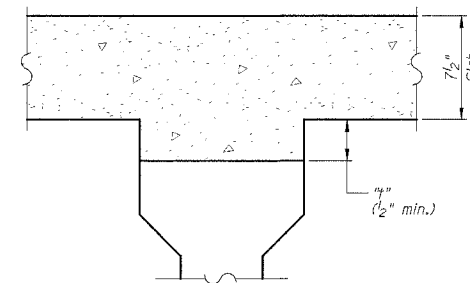
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

- NOTES: 1.) The above deflections are not to be used in the field if the Engineer is working from the Theoretical Grade Elevations Adjusted for Dead Load Deflections as shown on Sheet H6.
 2.) For elevations, see Sheet H6. Work this sheet with Sheets H6 & H7.



FILLET HEIGHT

To determine "1": after all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown on this sheet. These elevations subtracted from the "Theoretical Grade Elevations Adjusted For Dead Load Deflection" shown on Sheet H6, minus slab thickness, equals the fillet heights "1" above top flanges of beams.

ELEVATION LOCATIONS AND DEAD LOAD DEFLECTION DIAGRAM

IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+35.39
 STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	<p>2700 Midway Drive Bloomington, Illinois 61704 308/853-8636, 308/853-1871 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 65 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	66
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. #6
OF 26 SHEETS

**Centerline - F.A.P. Rte. 627 (IL71)
& Profile Grade Line**

Beam 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+96.981	-16.177	561.616	561.616
☉ Piles North Abut.	464+98.285	-16.316	561.596	561.596
A	465+08.760	-17.256	561.466	561.499
B	465+19.287	-17.887	561.389	561.448
C	465+29.845	-18.206	561.364	561.437
D	465+40.414	-18.214	561.393	561.466
E	465+50.973	-17.910	561.476	561.536
F	465+61.501	-17.295	561.611	561.645
☉ Piles South Abut.	465+72.502	-16.316	561.809	561.809
Bk. of South Abut.	465+73.807	-16.177	561.837	561.837

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+98.823	0.00	562.243	562.243
☉ Piles North Abut.	465+00.080	0.00	562.230	562.230
A	465+10.120	0.00	562.147	562.180
B	465+20.139	0.00	562.102	562.161
C	465+30.143	0.00	562.093	562.166
D	465+40.144	0.00	562.121	562.194
E	465+50.148	0.00	562.185	562.245
F	465+60.165	0.00	562.287	562.321
☉ Piles South Abut.	465+70.707	0.00	562.433	562.433
Bk. of South Abut.	465+71.964	0.00	562.453	562.453

Beam 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	465+00.655	17.791	562.936	562.936
☉ Piles North Abut.	465+01.837	17.665	562.919	562.919
A	465+11.318	16.815	562.812	562.845
B	465+20.837	16.245	562.750	562.809
C	465+30.380	15.956	562.731	562.804
D	465+39.930	15.949	562.758	562.831
E	465+49.473	16.224	562.829	562.889
F	465+58.994	16.780	562.944	562.978
☉ Piles South Abut.	465+68.951	17.665	563.112	563.112
Bk. of South Abut.	465+70.132	17.791	563.136	563.136

Beam 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+97.776	-9.386	561.878	561.878
☉ Piles North Abut.	464+99.054	-9.523	561.859	561.859
A	465+09.314	-10.443	561.735	561.768
B	465+19.623	-11.061	561.661	561.720
C	465+29.961	-11.374	561.638	561.711
D	465+40.309	-11.382	561.666	561.739
E	465+50.648	-11.084	561.746	561.806
F	465+60.958	-10.481	561.877	561.911
☉ Piles South Abut.	465+71.733	-9.523	562.069	562.069
Bk. of South Abut.	465+73.011	-9.386	562.095	562.095

Beam 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+99.273	4.199	562.406	562.406
☉ Piles North Abut.	465+00.501	4.069	562.388	562.388
A	465+10.356	3.185	562.273	562.306
B	465+20.255	2.592	562.205	562.264
C	465+30.179	2.291	562.185	562.258
D	465+40.112	2.284	562.212	562.285
E	465+50.037	2.570	562.287	562.347
F	465+59.937	3.148	562.410	562.444
☉ Piles South Abut.	465+70.287	4.069	562.589	562.589
Bk. of South Abut.	465+71.515	4.199	562.614	562.614

Beam 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+98.540	-2.594	562.142	562.142
☉ Piles North Abut.	464+99.792	-2.728	562.123	562.123
A	465+09.846	-3.630	562.004	562.037
B	465+19.945	-4.235	561.933	561.992
C	465+30.072	-4.541	561.911	561.984
D	465+40.208	-4.549	561.939	562.012
E	465+50.336	-4.257	562.017	562.077
F	465+60.437	-3.667	562.143	562.177
☉ Piles South Abut.	465+70.995	-2.728	562.329	562.329
Bk. of South Abut.	465+72.248	-2.594	562.354	562.354

Beam 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevation Adjusted for Dead Load Deflection
Bk. of North Abut.	464+99.977	10.995	562.671	562.671
☉ Piles North Abut.	465+01.182	10.866	562.653	562.653
A	465+10.847	10.000	562.543	562.576
B	465+20.552	9.418	562.477	562.536
C	465+30.281	9.124	562.458	562.531
D	465+40.019	9.116	562.485	562.558
E	465+49.750	9.397	562.558	562.618
F	465+59.456	9.964	562.677	562.711
☉ Piles South Abut.	465+69.606	10.866	562.851	562.851
Bk. of South Abut.	465+70.810	10.995	562.875	562.875

NOTE:

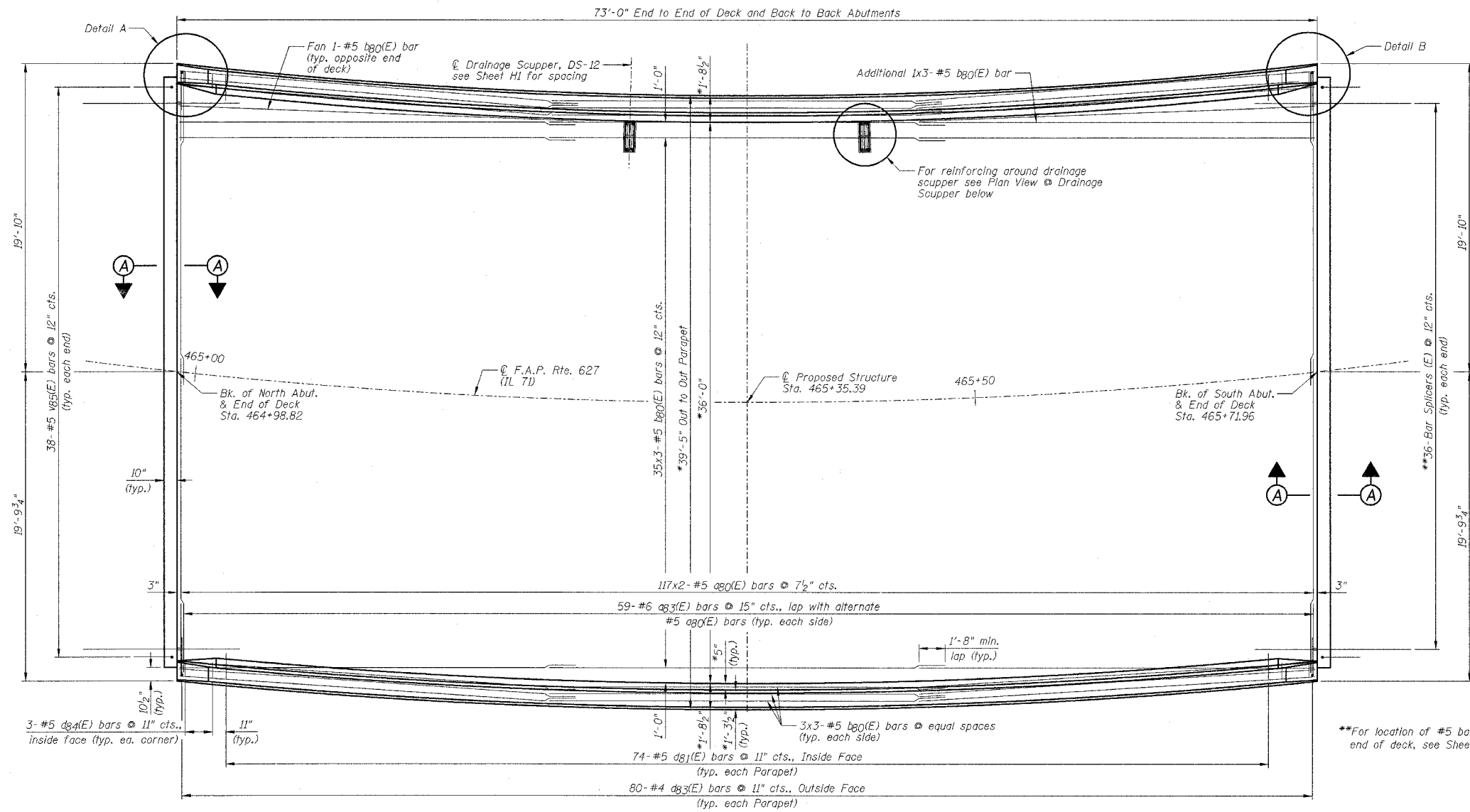
Work this sheet with Sheet H5.

TOP OF SLAB ELEVATIONS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

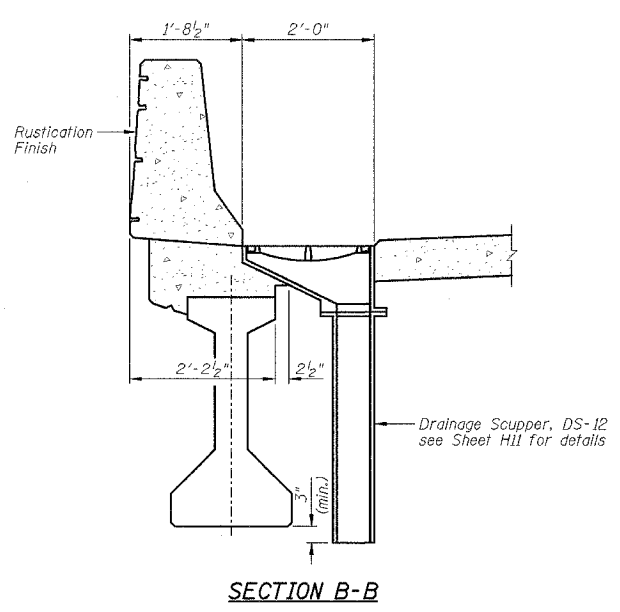
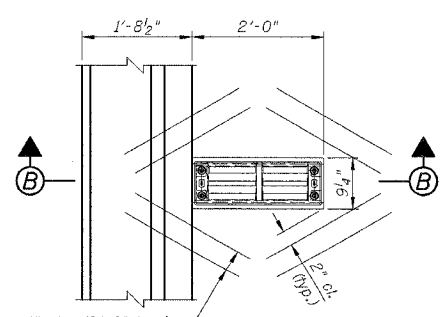
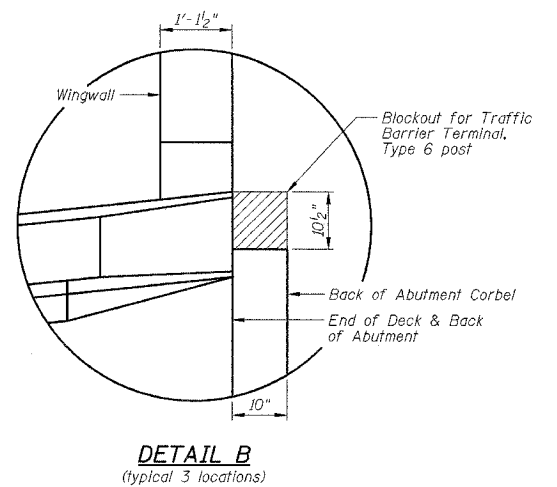
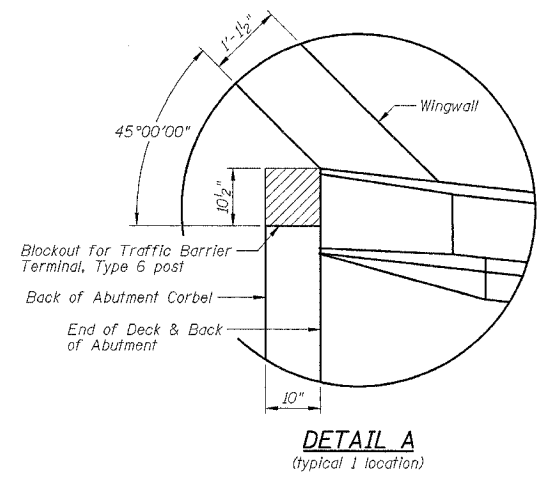
DESIGNED BY J.M.L.	 <p>Farnsworth GROUP 2700 McGraw Drive Bloomington, Illinois 61704 309/893-8635, 309/893-8711 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 66 OF 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS NO.	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	67
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. H7
OF 26 SHEETS



SLAB PLAN TOP REINFORCING



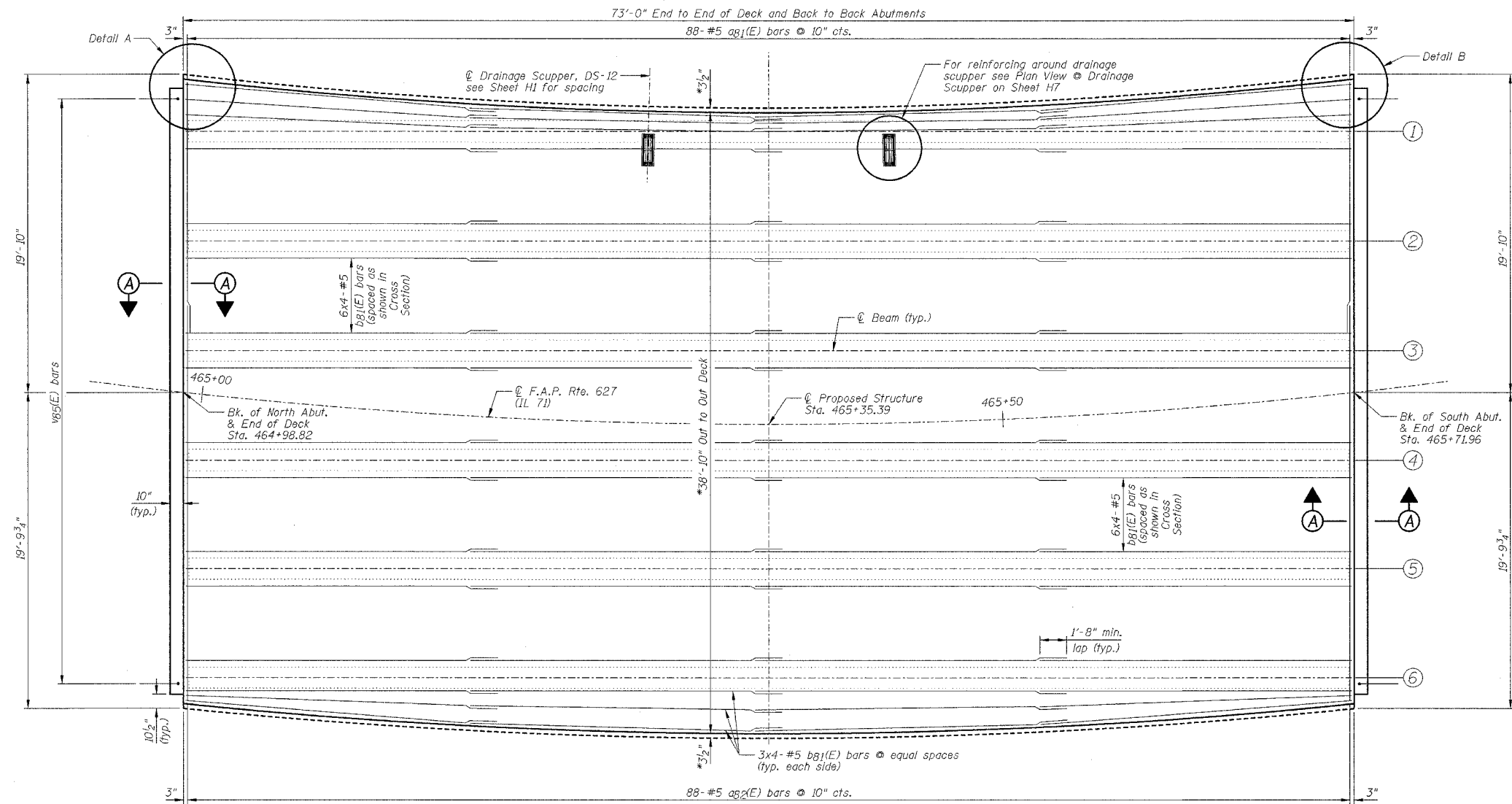
- NOTES:
- 1.) Work this sheet with Sheets H8 thru H11.
 - 2.) Reinforcement bars designated (E) shall be epoxy coated.
 - 3.) See Sheet H10 for Superstructure Details and Bill of Materials.
 - 4.) See Sheets H12 & H13 for Section A-A and diaphragm details.
 - 5.) See Sheets H17 & H18 for sections of abutments.
 - 6.) Fan bars as required for curve.
 - 7.) Bars indicated thus 20 x 4-#5 etc. indicates 20 lines of bars with 4 lengths per line.
 - 8.) Minimum lap length #5 bar = 1'-8". #6 bar = 2'-0"
 - 9.) *Indicates dimensions are measured radially.
 - 10.) See Sheet H19 for "Rustication Finish" locations.

SUPERSTRUCTURE DECK
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	<p>2700 Woodrow Drive Bloomington, Illinois 61704 309/655-6435, 309/983-1871 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 67 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	68
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H8
OF 26 SHEETS



SLAB PLAN BOTTOM REINFORCING

NOTES:

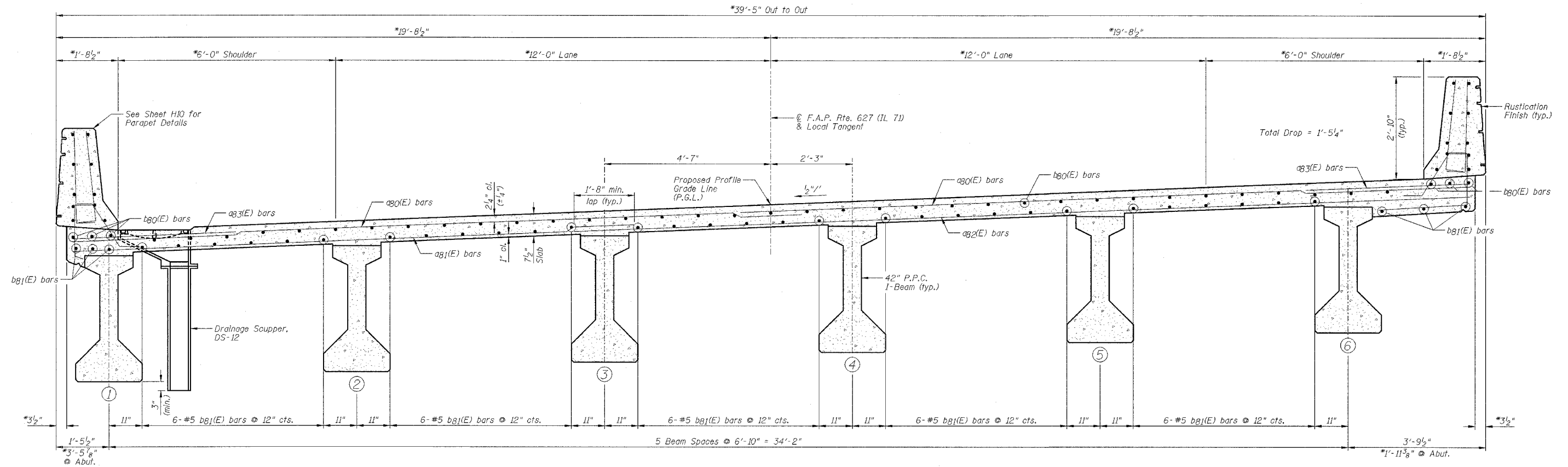
- 1.) Work this sheet with Sheets H7, H9 thru H11.
- 2.) Reinforcement bars designated (E) shall be epoxy coated.
- 3.) See Sheet H10 for Superstructure Details and Bill of Materials.
- 4.) See Sheets H12 & H13 for Section A-A and diaphragm details.
- 5.) See Sheets H17 & H18 for sections of abutments.
- 6.) Fan bars as required for curve.
- 7.) Bars indicated thus 20 x 4-#5 etc. indicates 20 lines of bars with 4 lengths per line.
- 8.) Minimum lap length #5 bar = 1'-8"; #6 bar = 2'-0"
- 9.) For Detail A & Detail B see Sheet H7.
- 10.) *Indicates dimensions are measured radially.

SUPERSTRUCTURE DECK
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	 2700 McDrew Drive Bloomington, Illinois 61704 304/953-8400, 304/982-9271 fax	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 68 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	69
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. H9
OF 26 SHEETS



CROSS SECTION
(@ Sta. 465+35.39 looking South)

NOTES:

- 1.) Work this sheet with Sheets H7, H8, H10 & H11.
- 2.) Reinforcement bars designated (E) shall be epoxy coated.
- 3.) *Dimensions measured radially.
- 4.) See Sheet H18 for "Rustication Finish" locations.

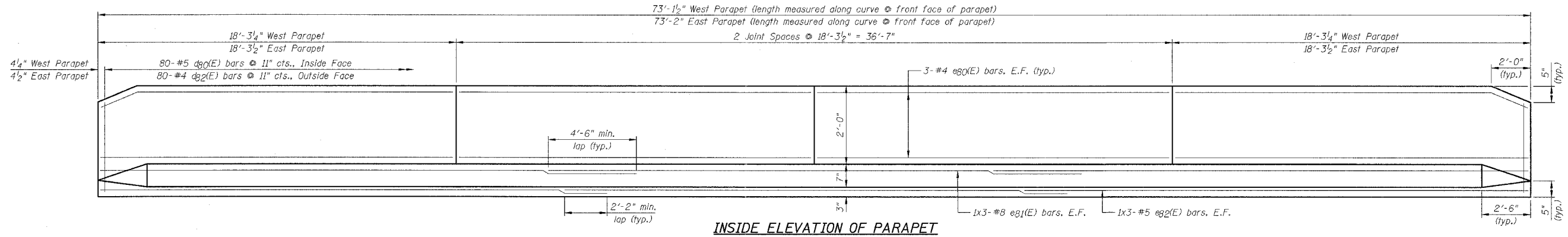
SUPERSTRUCTURE CROSS SECTION

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

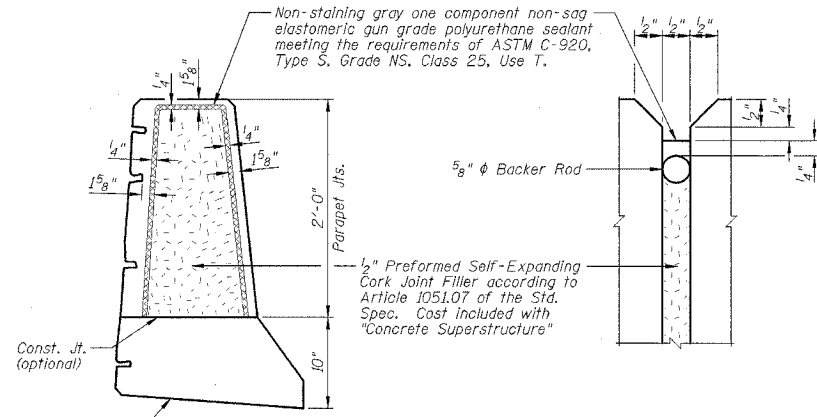
DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/883-6436, 309/883-1871 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 69 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	70
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

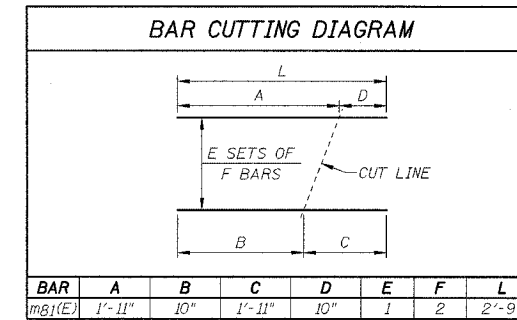
SHEET NO. H10
OF 26 SHEETS



INSIDE ELEVATION OF PARAPET



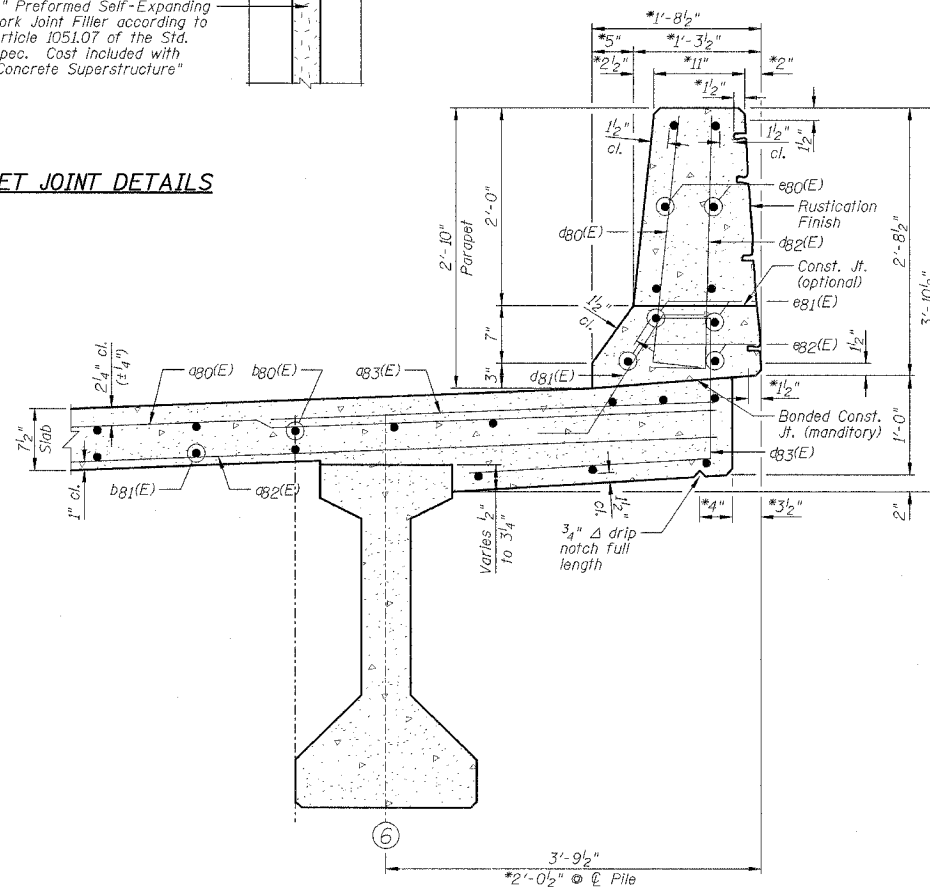
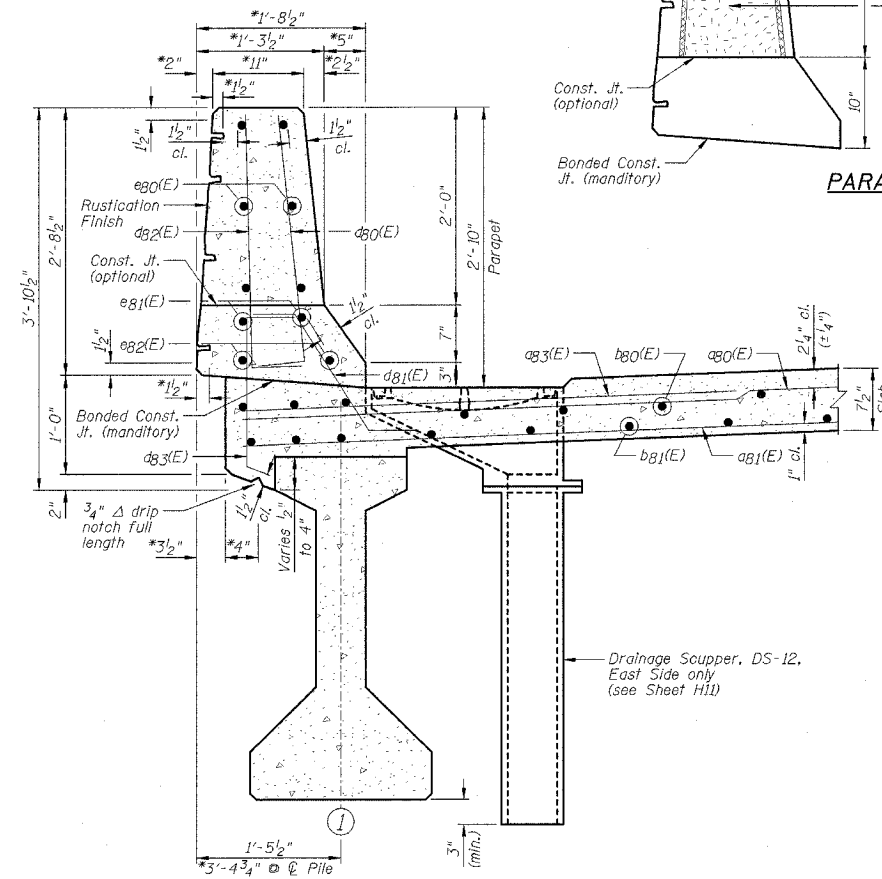
PARAPET JOINT DETAILS



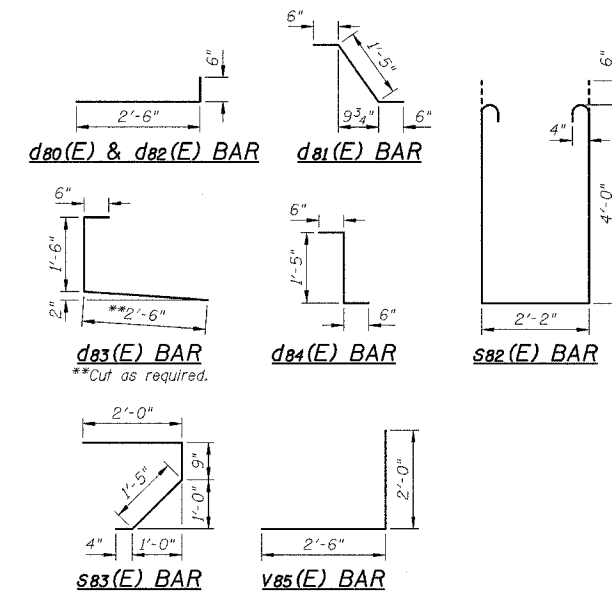
BAR	A	B	C	D	E	F	L
d80(E)	1'-11"	10"	1'-11"	10"	1	2	2'-9"

SUPERSTRUCTURE BILL OF MATERIALS

Bar	No.	Size	Length	Shape
d80(E)	234	#5	20'-1"	—
d81(E)	88	#5	15'-6"	—
d82(E)	88	#5	24'-8"	—
d83(E)	118	#6	4'-6"	—
d84(E)	16	#5	2'-0"	—
b80(E)	128	#5	25'-4"	—
b81(E)	144	#5	19'-5"	—
d80(E)	160	#5	3'-0"	—
d81(E)	148	#5	2'-5"	—
d82(E)	160	#4	3'-0"	—
d83(E)	160	#4	4'-6"	—
d84(E)	12	#5	2'-5"	—
e80(E)	48	#4	17'-11"	—
e81(E)	12	#8	27'-3"	—
e82(E)	12	#5	25'-9"	—
m80(E)	24	#6	8'-10"	—
m81(E)	2	#6	2'-9"	—
m82(E)	10	#6	4'-9"	—
m83(E)	20	#6	21'-0"	—
s82(E)	68	#4	11'-2"	—
s83(E)	78	#5	4'-6"	—
v85(E)	76	#5	4'-6"	—
Item	Unit	Quantity		
Protective Coat	Sq. Yd.	356		
Concrete	Cu. Yd.	122.9		
Superstructures				
Bridge Deck Grooving	Sq. Yd.	277		
Reinforcement Bars, Epoxy Coated	Pound	21450		
Bar Splicers (E)	Each	72		



SECTIONS THRU PARAPET
(@ Looking South)



NOTES:

- 1.) Work this sheet with Sheets H7 thru H9 & H11.
- 2.) Reinforcement bars designated (E) shall be epoxy coated.
- 3.) E.F. denotes Each Face.
- 4.) Space drainage scuppers to miss reinforcement.
- 5.) Bars indicated thus 1x3-#5 etc. indicates 1 line of bars with 3 lengths per line.
- 6.) Inside Elevation Of Parapet view is exaggerated vertically to show reinforcement.
- 7.) Minimum lap length: #5 bar = 2'-2"; #8 bar = 4'-6"
- 8.) *Dimensions measured radially.
- 9.) See Sheet H18 For "Rustication Finish" locations.

SUPERSTRUCTURE DETAILS, PARAPET
DETAILS AND BILL OF MATERIALS

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY
J.M.L.

DRAWN BY
D.J.M.

CHECKED BY
M.S.W.

Farnsworth GROUP
2706 McArthur Drive
Washington, Illinois 61704
302/692-8635 302/692-9711 fax

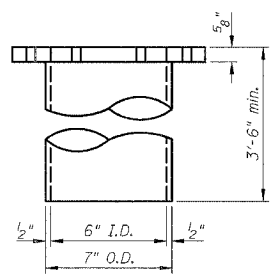
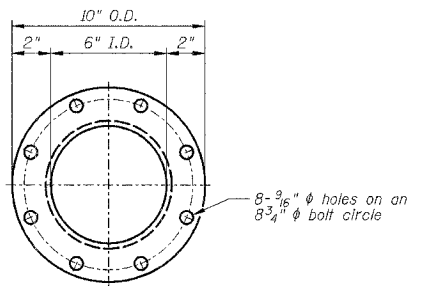
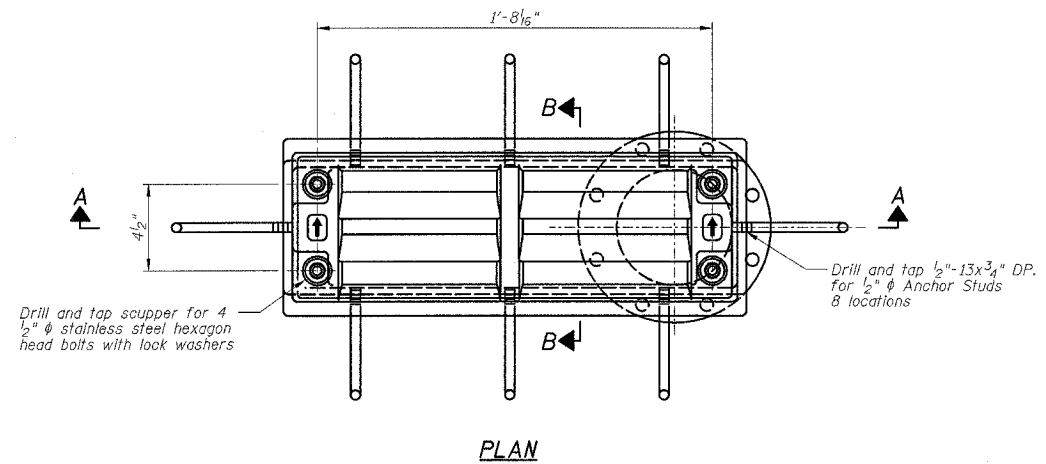
FILE NO.
24-6772

DATE
05-12-06

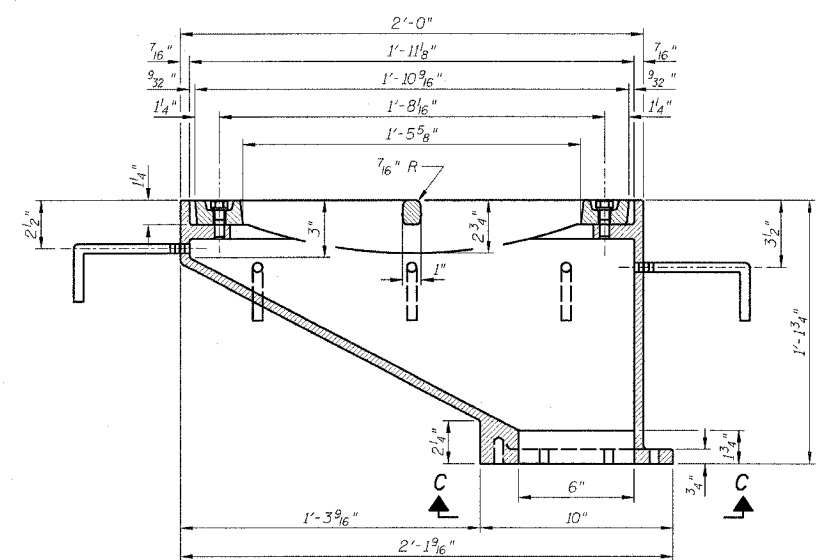
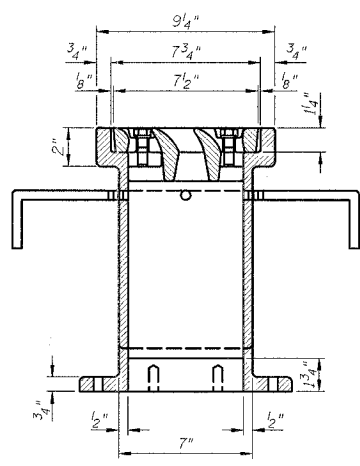
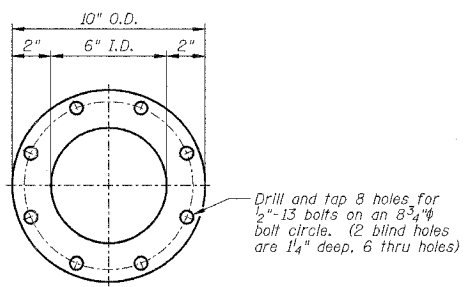
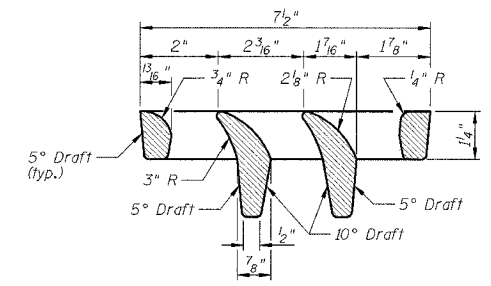
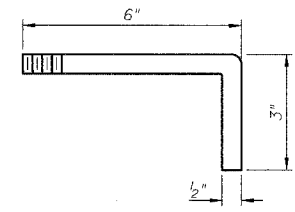
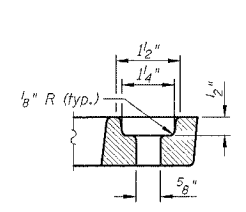
SHEET NO.
70 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	71
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. H11
OF 26 SHEETS



DOWNSPOUT



See Sheets H1 and H7 for scupper location relative to parapet.

- NOTES:**
- 1.) All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.
 - 2.) Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.
 - 3.) The grate, frame and downspout shall be galvanized according to AASHTO M 111 and ASTM A 385. Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam. As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.
 - 4.) Structural steel weldments of equal sections and of the same configuration may be substituted for cast iron. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval.
 - 5.) The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.
 - 6.) Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-12.

BILL OF MATERIALS

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-12	Each	2

DRAINAGE SCUPPER, DS-12
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

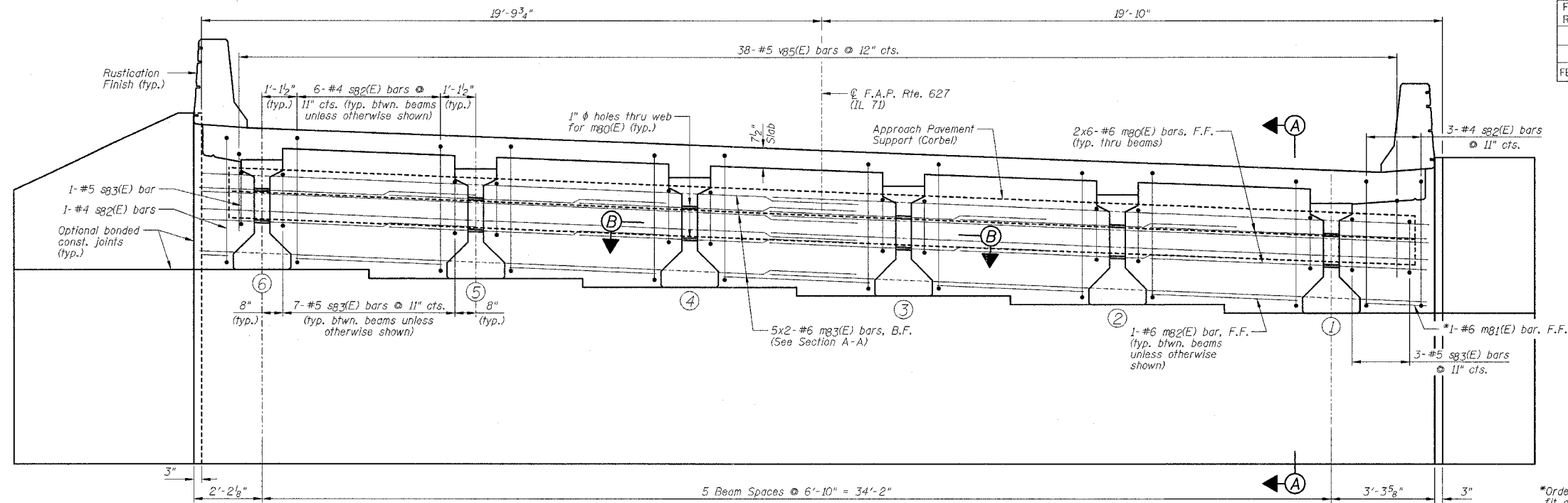
8/1/2000

DESIGNED BY J.M.L.	FILE NO. 24-6772
DRAWN BY D.J.M.	DATE 05-12-06
CHECKED BY M.S.W.	SHEET NO. 71 of 106

Farnsworth GROUP
 2700 McGraw Drive
 Bloomington, Illinois 61704
 302/853-6435, 302/853-1071 fax

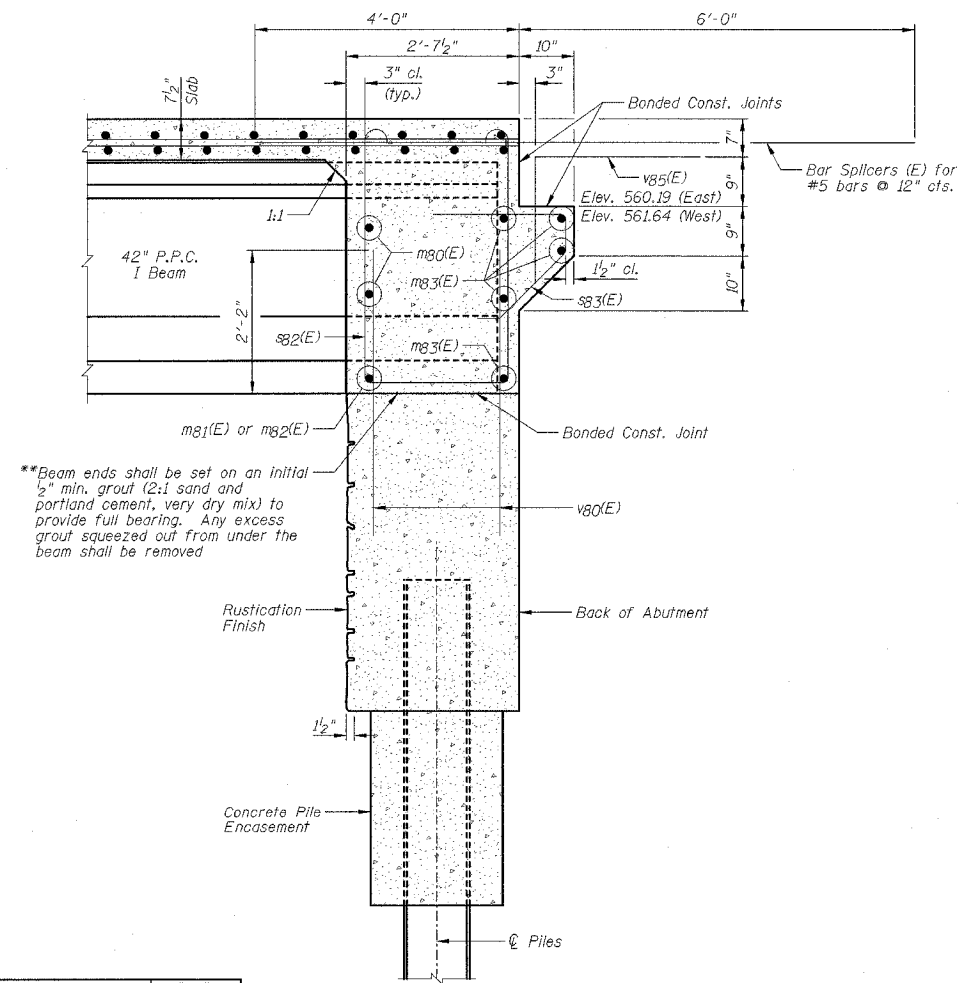
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	72
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. H12
OF 26 SHEETS

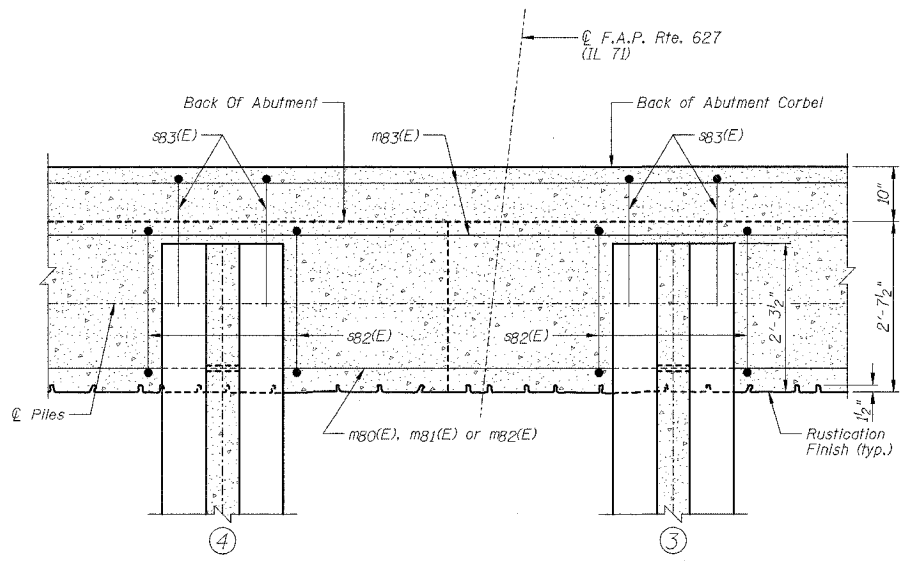


ELEVATION OF DIAPHRAGM AT NORTH ABUTMENT
(LOOKING NORTH)

*Order m81(E) bars full length. Cut to fit diaphragm and use remainder of bars in opposite end of diaphragm. See Sheet H10 for Bar Cutting Diagram.



SECTION A-A



SECTION B-B

**Beam ends shall be set on an initial 1/2" min. grout (2:1 sand and portland cement, very dry mix) to provide full bearing. Any excess grout squeezed out from under the beam shall be removed.

NOTES:

- 1.) Work this sheet with Sheets H13 thru H16.
- 2.) Quantities for reinforcing steel & concrete superstructure in the diaphragm shall be included with the superstructure. See Sheet H10 for quantities.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face.
- 4.) Reinforcement bars designated (E) shall be epoxy coated.
- 5.) Minimum lap length: #6 bar = 2'-9"
- 6.) See Sheet H10 for Bill of Materials.
- 7.) See Sheet H17 for v80(E) bars.
- 8.) See Sheet H19 for "Rustication Finish" locations.

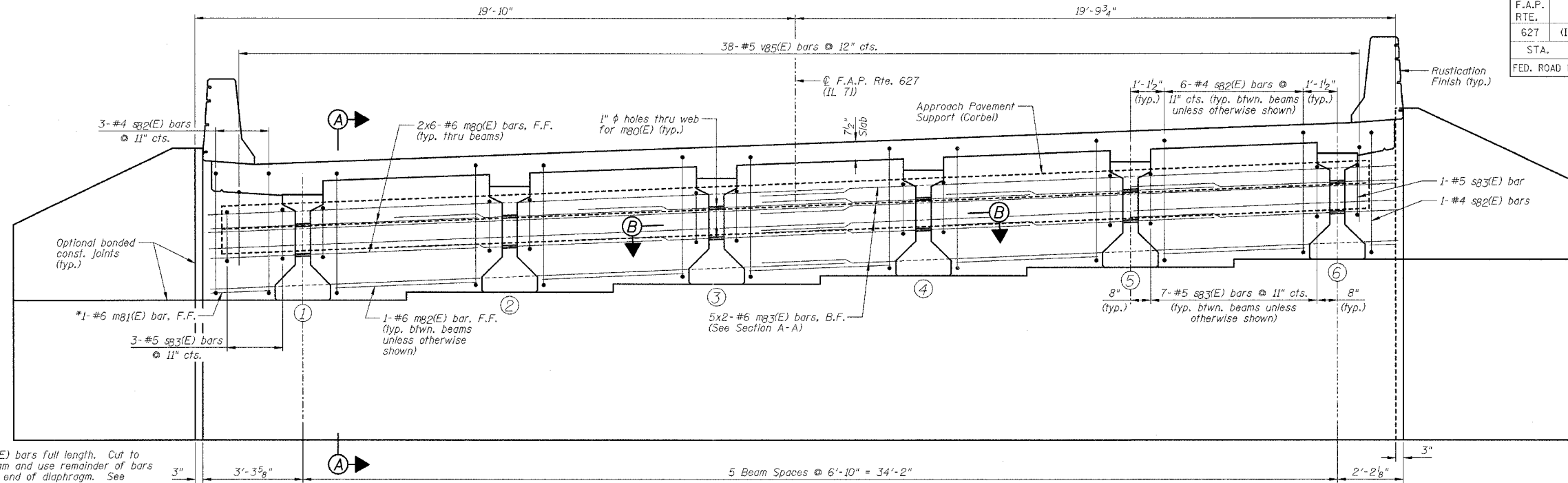
DIAPHRAGM DETAILS-NORTH ABUTMENT
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/853-8635, 309/853-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 72 of 106

**Included in the cost of "Concrete Structures".

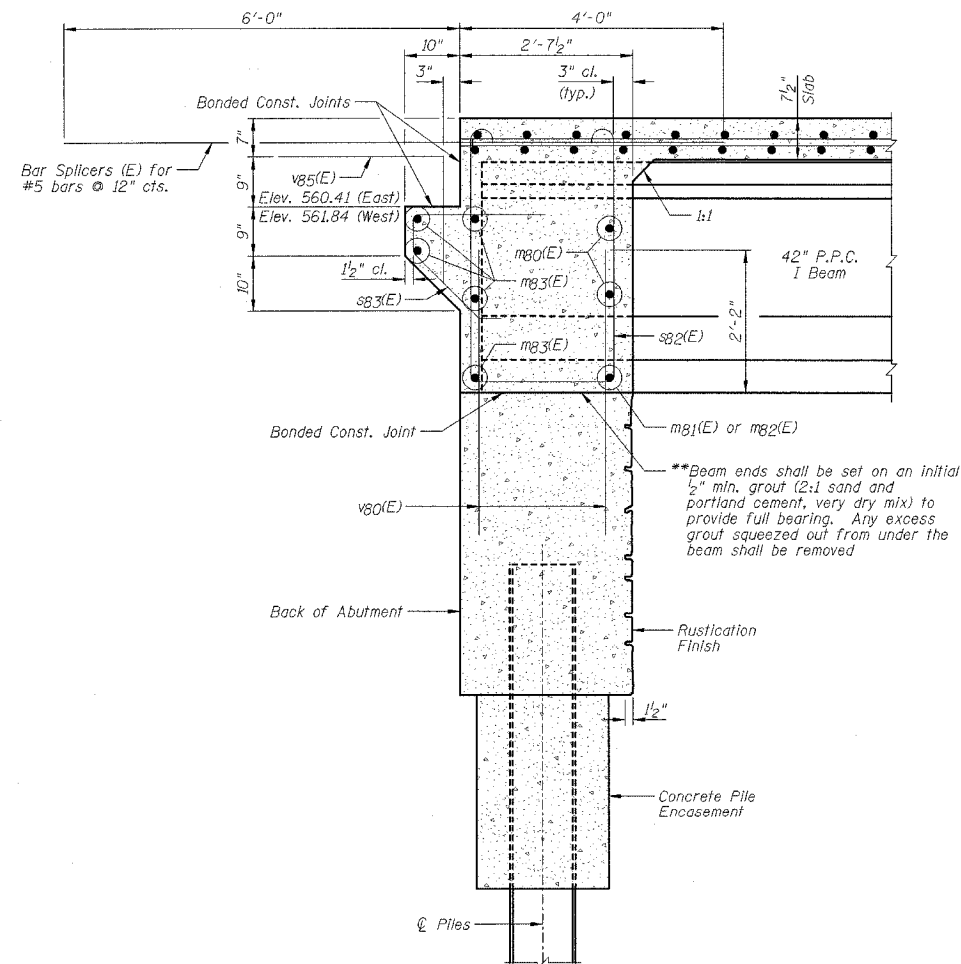
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	73
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H13
OF 26 SHEETS



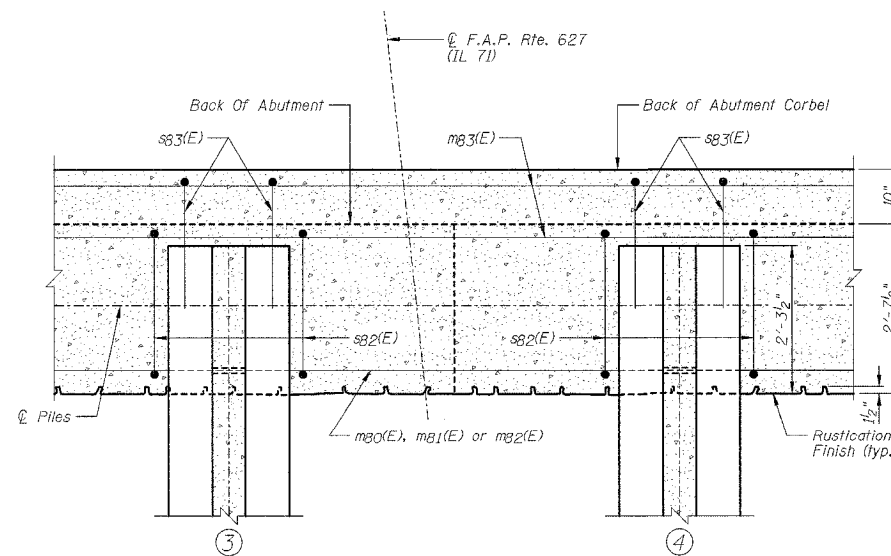
*Order m81(E) bars full length. Cut to fit diaphragm and use remainder of bars in opposite end of diaphragm. See Sheet H10 for Bar Cutting Diagram.

**ELEVATION OF DIAPHRAGM AT SOUTH ABUTMENT
(LOOKING SOUTH)**



SECTION A-A

**Included in the cost of "Concrete Structures".



SECTION B-B

NOTES:

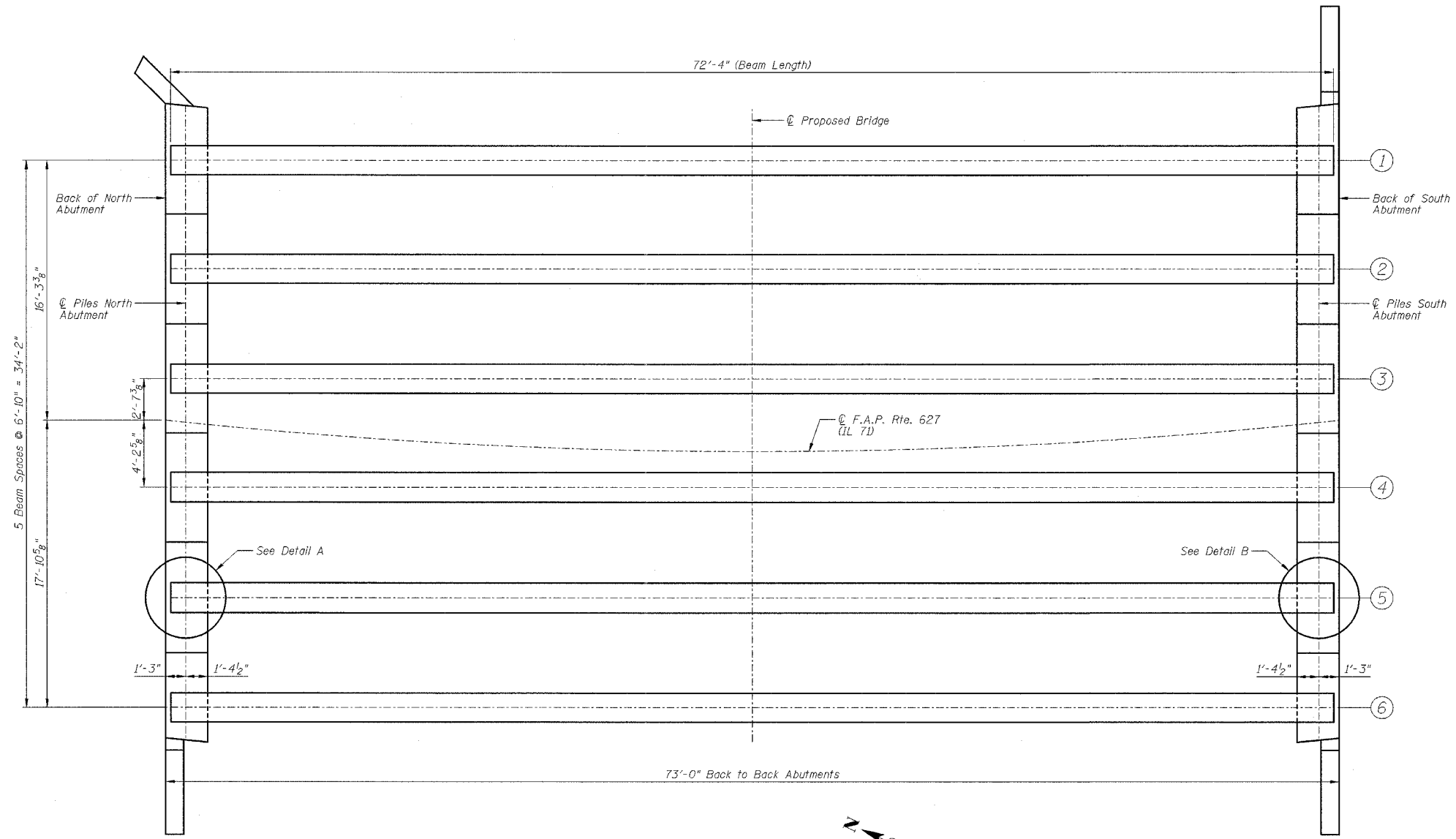
- 1.) Work this sheet with Sheets H12, H14, H15 & H16.
- 2.) Quantities for reinforcing steel & concrete superstructure in the diaphragm shall be included with the superstructure. See Sheet H10 for quantities.
- 3.) F.F. denotes Front Face, B.F. denotes Back Face.
- 4.) Reinforcement bars designated (E) shall be epoxy coated.
- 5.) Minimum lap length: #6 bar = 2'-9"
- 6.) See Sheet H10 for Bill of Materials.
- 7.) See Sheet H18 for v80(E) bars.
- 8.) See Sheet H19 for "Rustication Finish" locations.

DIAPHRAGM DETAILS-SOUTH ABUTMENT
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	<p>2700 McDraw Drive Bloomington, Illinois 61704 308/859-6635, 308/852-9711 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 73 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	74
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H14
OF 26 SHEETS

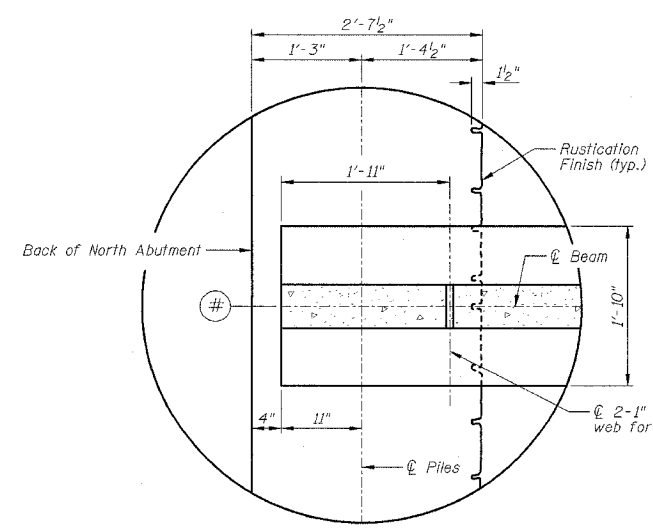


	Span
Strand Pattern	24-A
I	(in ⁴) 90956
I'	(in ⁴) 277500
S _b	(in ³) 5153
S _b '	(in ³) 8733
S _t	(in ³) 3736
S _t '	(in ³) 27160
Q	(k/')
M _Q	(k)
s _Q	(k/')
M _{sQ}	(k)
M _L	(k)
M (Imp)	(k)

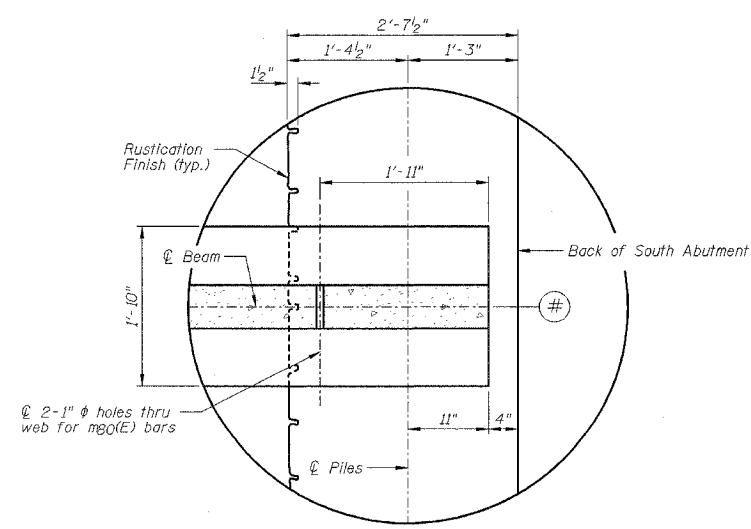
	Abutment
R _Q	(k) 39.9
R _{sQ}	(k) 16.8
R _L	(k) 41.2
Imp.	(k) 9.9
R (Total)	(k) 107.8

I and I' are the moment of inertia and composite moment of inertia of beam section.
 S_b and S_b' are the non-composite and composite section modulus for the bottom fiber of the prestressed beam.
 S_t and S_t' are the non-composite and composite section modulus for the top fiber of the prestressed beam.
 M_Q is the moment due to dead loads on the non-composite prestressed beam. It is conservatively calculated at 0.5 of the span.
 M_{sQ} is the moment due to dead loads on the composite section.
 M_L is the moment due to live load on the composite section.
 M (Imp) is the moment due to live load impact on the composite section.

FRAMING PLAN



DETAIL A



DETAIL B

NOTES:

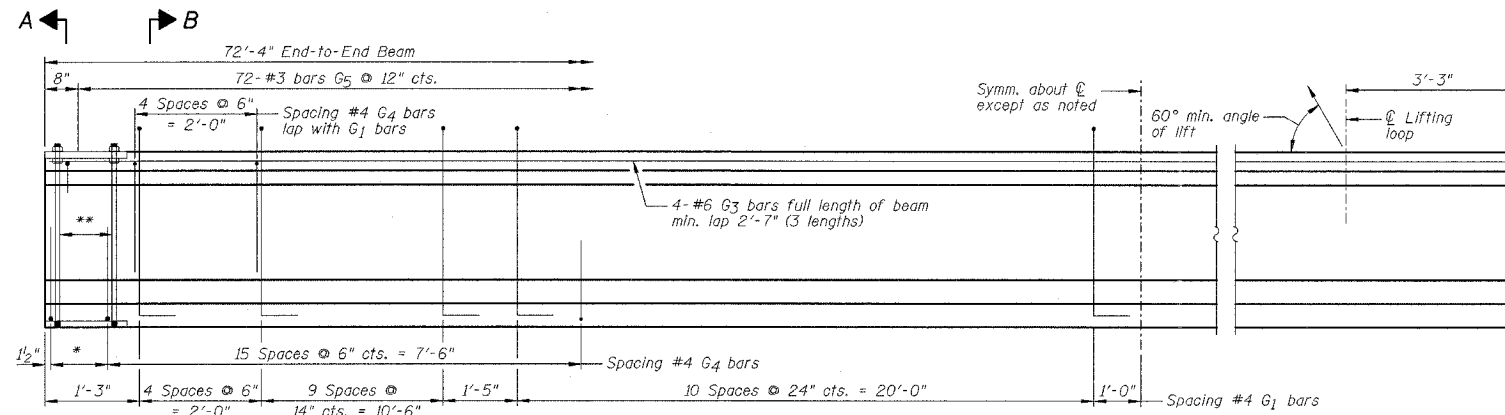
- 1.) Work this sheet with Sheets H12, H13, H15 & H16.
- 2.) See Sheet H19 for "Rustication Finish" locations.

FRAMING PLAN
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/898-8636, 309/898-1671 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 74 of 106

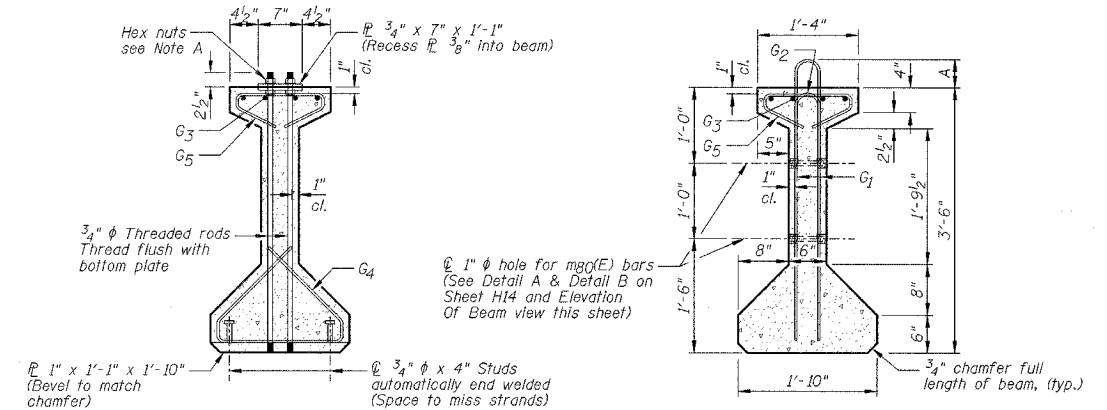
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	75
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H15
OF 26 SHEETS



ELEVATION OF BEAM
(Showing Reinforcement & Dimensions)

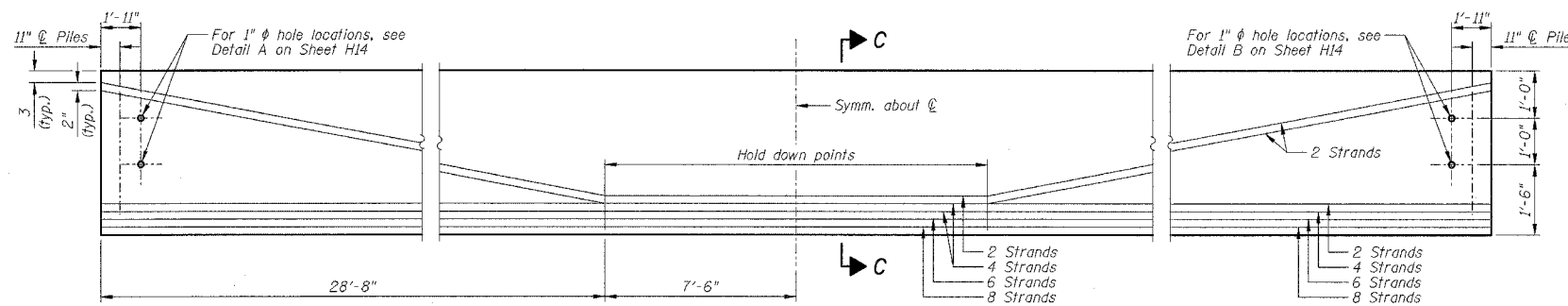
* 3 spaces at 3" = 9"
** 4-3/4" ϕ threaded dowel rods at 3" cts., each face



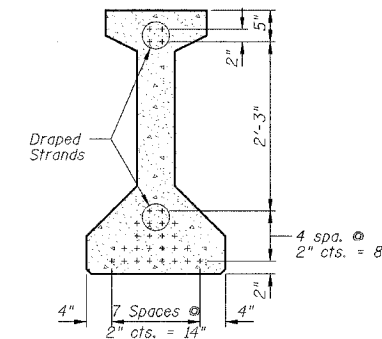
SECTION A-A

Note A: Hex nuts (top and bottom) with lock washers (top). Only tighten sufficiently to compress lock washers.

SECTION B-B



ELEVATION OF BEAM
(Showing Prestressing Steel)



SECTION C-C

BAR LIST
ONE BEAM ONLY

Bar No.	Size	Length	Shape
G1	#4	8'-5"	⊔
G2	#4	4'-4"	⊔
G3	#6	25'-9"	⊔
G4	#3	4'-11"	⊔
G5	#3	2'-6"	⊔

G1 BAR CHART

Beam Number	Dimension "A" near end of beam	Dimension "A" near ϕ of beam
①	8 1/4"	4 1/2"
②	8"	4 1/2"
③	8"	4 1/2"
④	7 3/4"	4 1/2"
⑤	7 3/4"	4 1/2"
⑥	7 1/2"	4 1/2"

PI-4-42 7-15-05

DESIGNED BY J.M.L.	<p>2700 Wisconsin Drive Bloomington, Illinois 61704 309/993-8436, 309/993-1871 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 75 OF 106

NOTES:

- 1.) Work this sheet with Sheets H12 thru H14 and H16.
- 2.) See Section B-B and the G1 Bar Chart for dimension "A".
- 3.) All inserts and threaded dowel rods for inserts, reinforcing and prestressing steel, and other items which are cast into the precast concrete I-beams shall be included in the contract unit price per foot of "Furnishing And Erecting Precast Prestressed Concrete I-Beams, 42 in."
- 4.) Required release strength, f'ci, shall be 5000 psi.

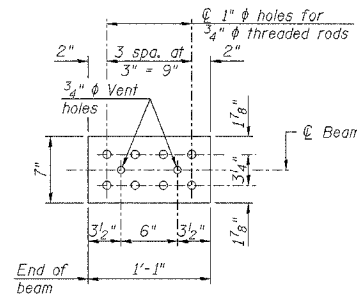
42" PPC I-BEAM

IL ROUTE 71

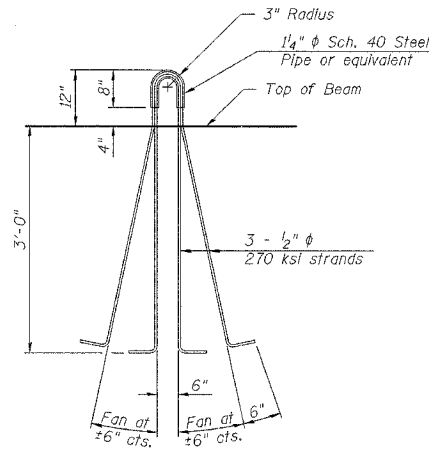
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	76
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. H16
OF 26 SHEETS

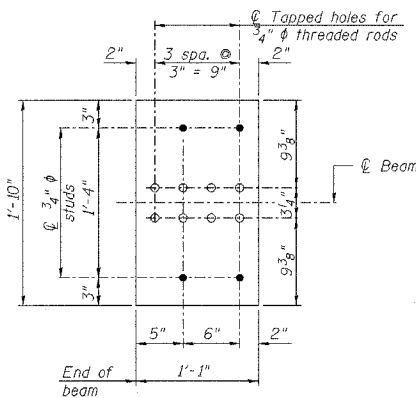


TOP PLATE



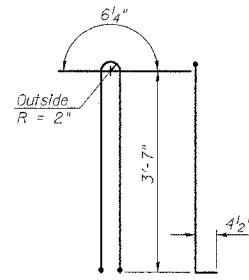
LIFTING LOOP DETAIL

- NOTES:**
- 1.) Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270.
 - 2.) The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
 - 3.) Non-prestressing steel shall conform to AASHTO designation M-31 or M 322, Grade 60.
 - 4.) A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
 - 5.) Reinforcement bars designated (E) shall be epoxy coated.
 - 6.) Cut G6 bars when necessary to maintain 1/2" clearance.
 - 7.) The bottom plates and studs shall be galvanized according to AASHTO M111 and ASTM A385.
 - 8.) Threaded rods shall be ASTM F 1554 Grade 55.
 - 9.) The cut strands at each beam end shall be given two coats of zinc dust spray or paint meeting the requirements of ASTM A 780. The zinc dust spray or paint shall be applied before corrosion appears and allowed to dry according to the manufacturer's specifications prior to another coat of zinc. A concrete sealer meeting the requirements of Section 587 of the Standard Specifications shall be applied to all portions of the I-beam or Bulb-T beam, except the top surface of the top flange and the bottom surface of the bottom flange, starting at each beam end and extending out a distance of 42 inches. The sealer shall be applied after visible crack growth has subsided. This work shall be performed by the producer and included with the cost of the beam.

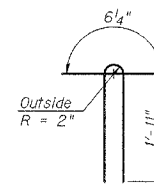


BOTTOM PLATE

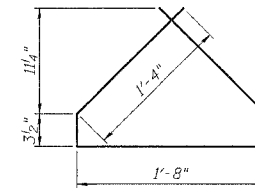
See bearing details for pinhole locations when required.



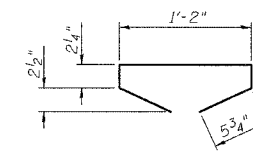
BAR G1



BAR G2



BAR G4



BAR G5

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete I-Beams, 42"	Ft.	434

42" PPC I-BEAM DETAILS

IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

PI-4-42D 7-15-05

DESIGNED BY J.M.L.	<p>2700 McGraw Drive Bloomington, Illinois 61704 309/893-8635, 309/893-1571 fax</p>	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 76 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	77
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

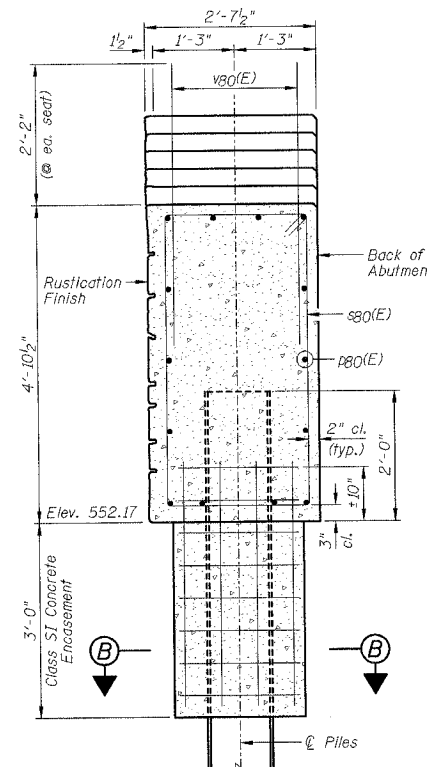
SHEET NO. H17
OF 26 SHEETS

**BILL OF MATERIALS-
NORTH ABUTMENT**

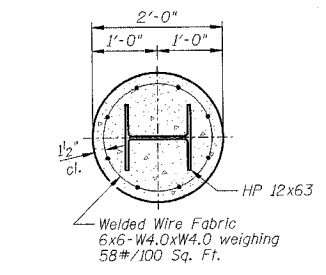
Bar	No.	Size	Length	Shape
h80(E)	34	#5	9'-0"	
h81(E)	15	#5	6'-8"	
h82(E)	15	#5	5'-6"	
h83(E)	2	#5	5'-9"	
h84(E)	4	#5	2'-5"	
p80(E)	28	#7	21'-5"	
p81(E)	12	#6	9'-8"	
p82(E)	3	#6	4'-10"	
s80(E)	34	#4	13'-11"	□
u80(E)	10	#6	11'-2"	□
u81(E)	33	#4	8'-2"	□
v80(E)	68	#5	4'-4"	
v81(E)	7	#5	19'-2"	
v82(E)	8	#5	10'-2"	

Item	Unit	Quantity
Porous Granular Embankment (Special)	Cu. Yd.	96
Structure Excavation	Cu. Yd.	830
Concrete Structures	Cu. Yd.	25.4
Reinforcement Bars, Epoxy Coated	Pound	3150
Furnishing Steel Piles HP 12x63	Foot	75
Driving Steel Piles HP 12x63	Foot	75
Test Pile Steel HP 12x63	Each	1
Geocomposite Wall Drain	Sq. Yd.	43
Pipe Underdrains for Structures, 4"	Foot	48

SECTION A-A



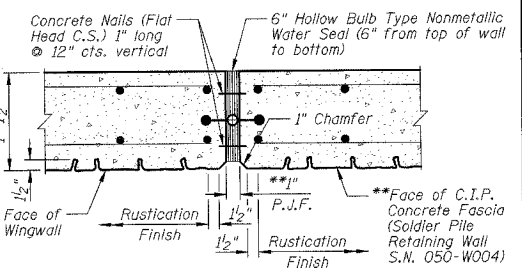
SECTION B-B



Note: The cost of Excavation, Class SI Concrete Encasement and reinforcement is included with furnishing piles. Form for encasement may be omitted when soil conditions will permit.

PILE DATA:

Type	HP 12x63 Steel
No. Req'd.	5+1 Test Pile
Est. Length	15 Feet
Capacity	Drive to Refusal



EXPANSION JOINT DETAIL

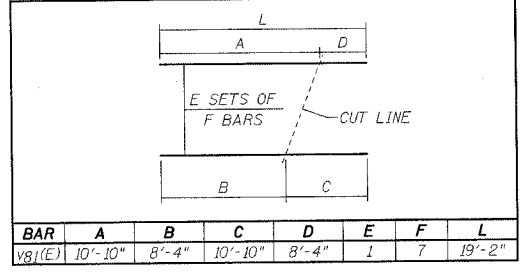
Note: P.J.F. exaggerated for clarity.

NOTES:

- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Pour steps monolithically with cap.
- 3.) B.F. denotes Back Face
F.F. denotes Front Face
E.F. denotes Each Face
- 4.) See Sheet H19 for "Rustication Finish" locations.
- 5.) *Optional bonded construction joint.
- 6.) **See Soldier Pile Retaining Wall plans, Sheets G1 thru G7.
- 7.) Minimum lap length: #5 bar = 2'-10"
#7 bar = 3'-10"

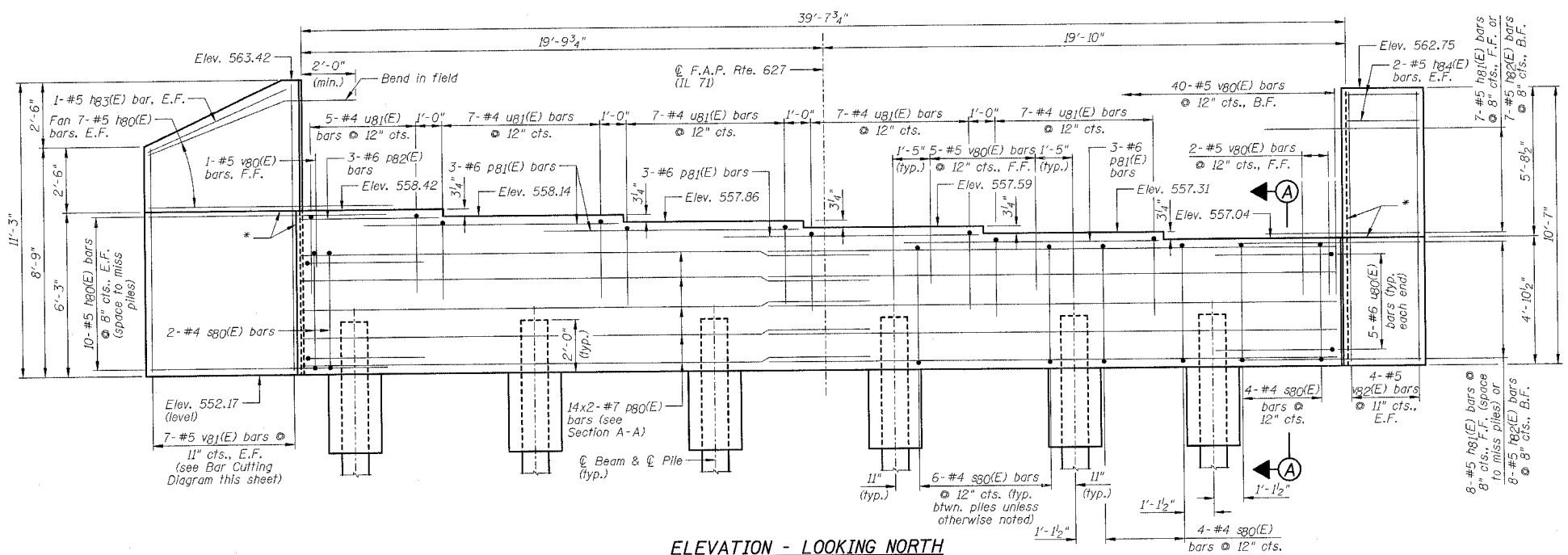
NORTH ABUTMENT AND PILE DETAILS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

BAR CUTTING DIAGRAM

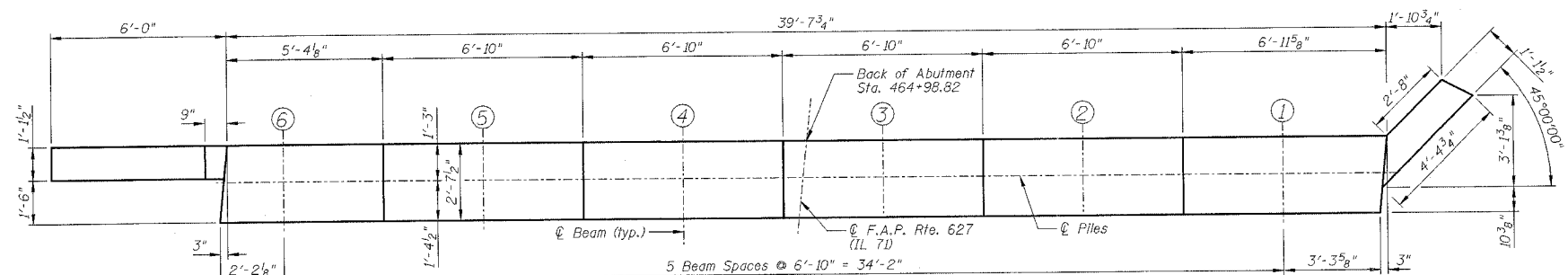


BAR	A	B	C	D	E	F	L
v81(E)	10'-10"	8'-4"	10'-10"	8'-4"	1	7	19'-2"

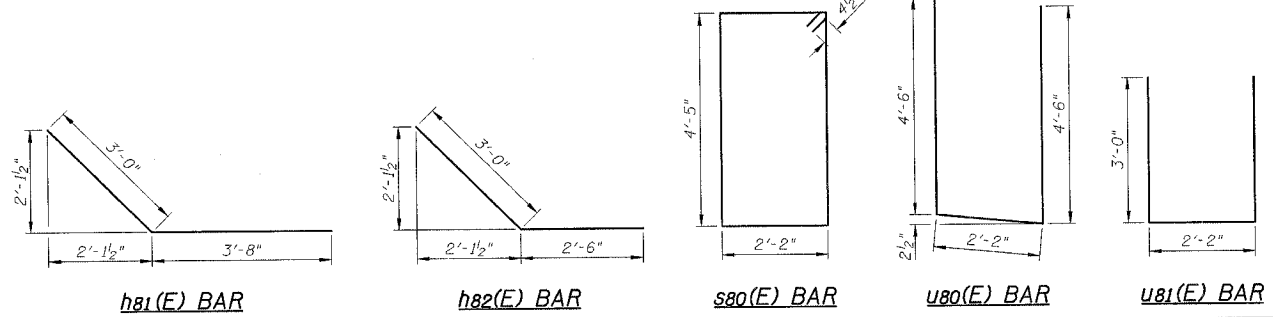
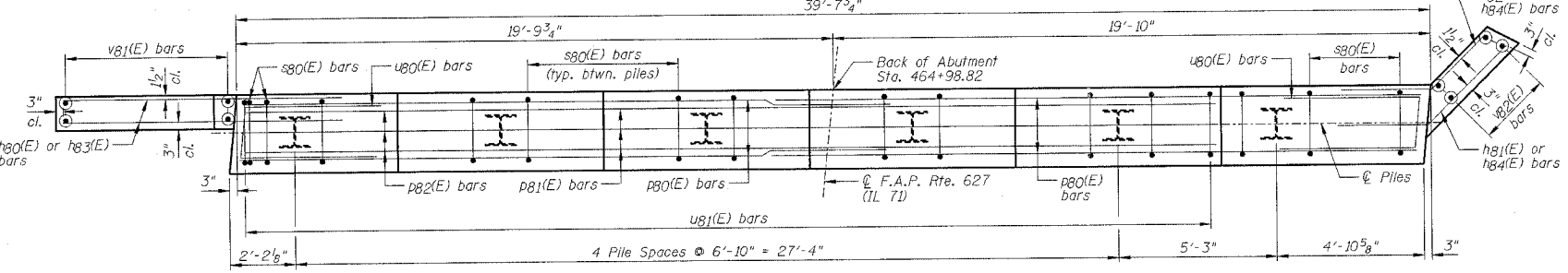
ELEVATION - LOOKING NORTH



TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



PLAN - PILE CAP



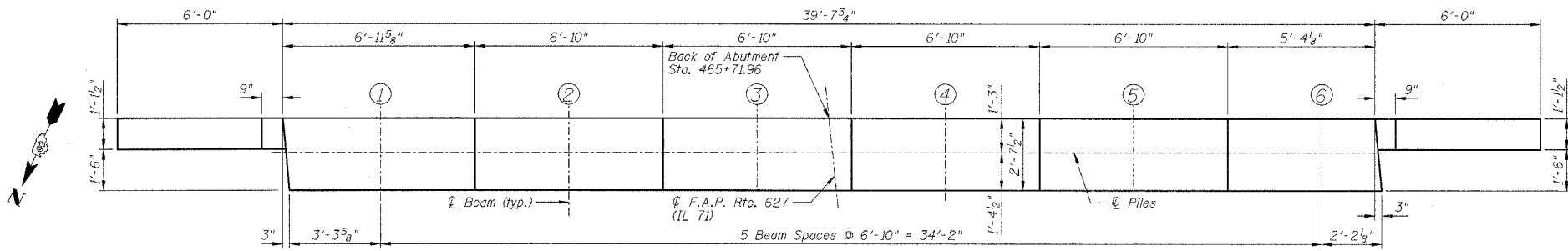
DESIGNED BY J.M.L.
DRAWN BY D.J.M.
CHECKED BY M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/833-3435, 309/853-1671 fax

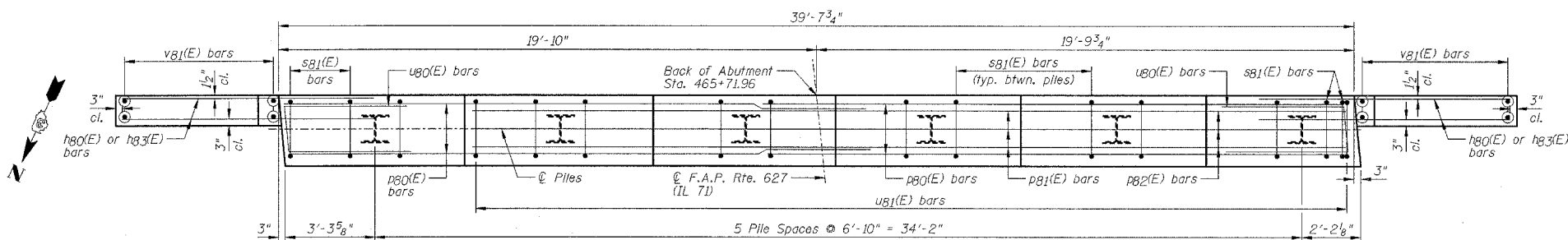
FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 77 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	78
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

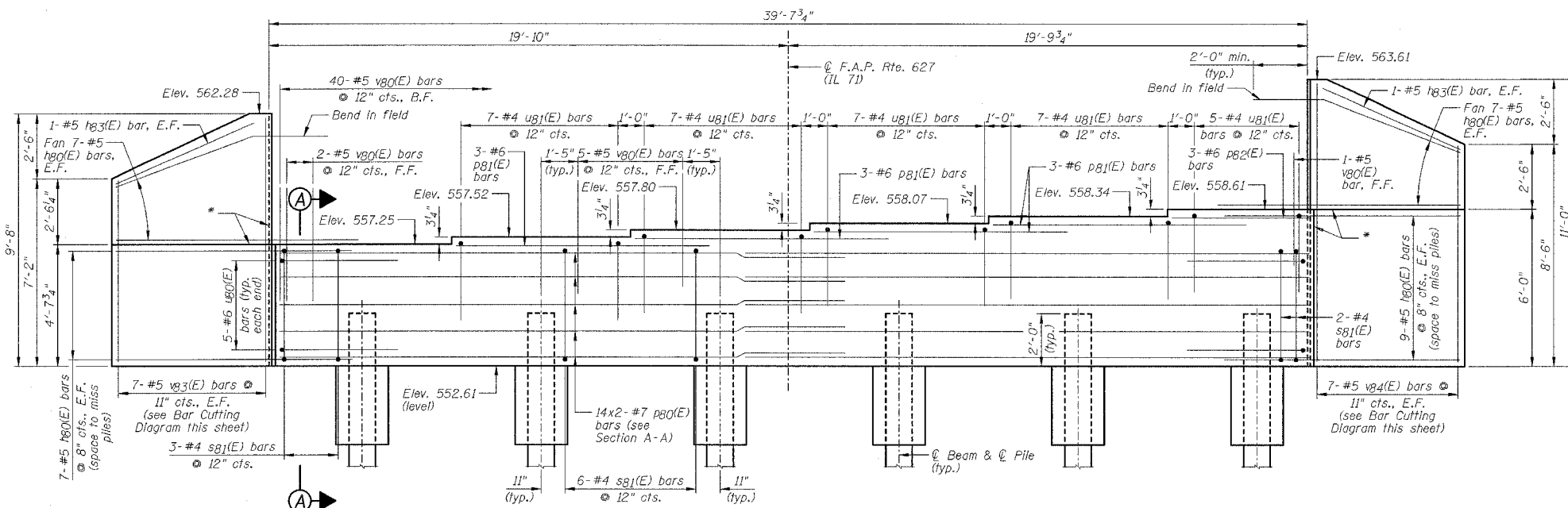
SHEET NO. H18
OF 26 SHEETS



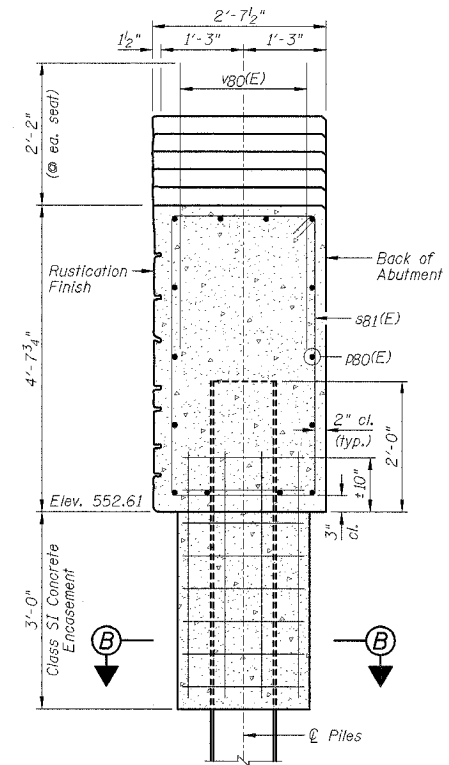
TOP VIEW ABUTMENT (SHOWING BEARING SEAT)



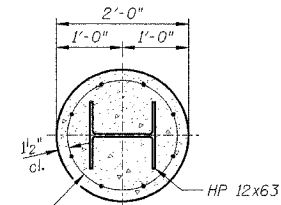
PLAN - PILE CAP



ELEVATION - LOOKING SOUTH



SECTION A-A



SECTION B-B

Note: The cost of Excavation, Class SI Concrete Encasement and reinforcement is included with furnishing piles. Form for encasement may be omitted when soil conditions will permit.

BILL OF MATERIALS- SOUTH ABUTMENT

Bar	No.	Size	Length	Shape
v80(E)	60	#5	9'-0"	
v83(E)	4	#5	5'-9"	
p80(E)	28	#7	21'-5"	
p81(E)	12	#6	9'-8"	
p82(E)	3	#6	4'-10"	
s81(E)	35	#4	13'-5"	□
u80(E)	10	#6	11'-2"	U
u81(E)	33	#4	8'-2"	U
v80(E)	68	#5	4'-4"	
v83(E)	7	#5	16'-0"	
v84(E)	7	#5	18'-8"	

Item	Unit	Quantity
Porous Granular Embankment (Special)	Cu. Yd.	92
Structure Excavation	Cu. Yd.	1380
Concrete Structures	Cu. Yd.	25.0
Reinforcement Bars, Epoxy Coated	Pound	3230
Furnishing Steel Piles HP 12x63	Foot	75
Driving Steel Piles	Foot	75
Test Pile Steel HP 12x63	Each	1
Geocomposite Wall Drain	Sq. Yd.	46
Pipe Underdrains for Structures, 4"	Foot	56

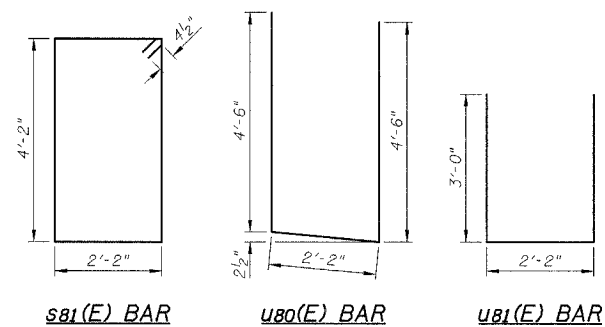
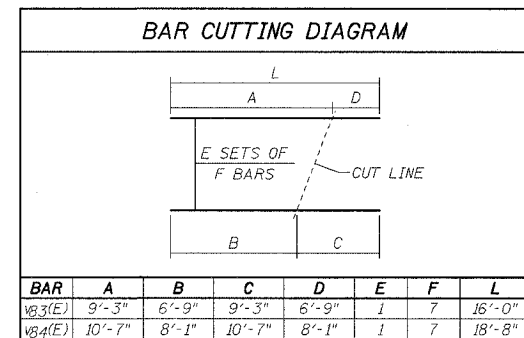
PILE DATA:

Type	HP 12x63 Steel
No. Req'd.	5+1 Test Pile
Est. Length	15 Feet
Capacity	Drive to Refusal

NOTES:

- 1.) Reinforcement bars designated (E) shall be epoxy coated.
- 2.) Four steps monolithically with cap.
- 3.) B.F. denotes Back Face, F.F. denotes Front Face, E.F. denotes Each Face.
- 4.) See Sheet H19 for "Rustication Finish" locations.
- 5.) *Optional bonded construction joint.
- 6.) Minimum lap length: #6 bar = 2'-10", #7 bar = 3'-10"

BAR CUTTING DIAGRAM



DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

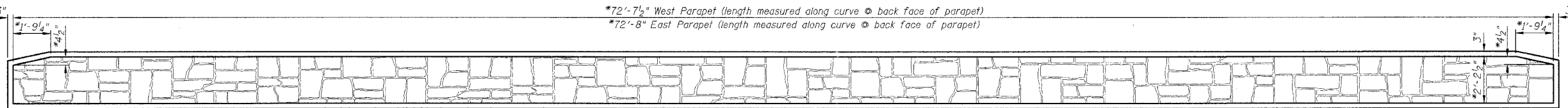
Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/893-8435 309/893-1671 fax

FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 78 of 106

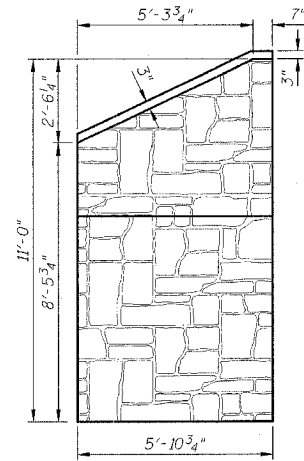
SOUTH ABUTMENT AND PILE DETAILS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	79
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

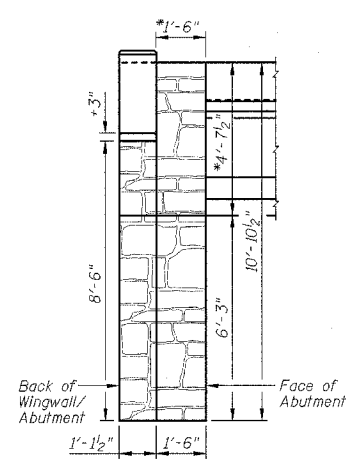
SHEET NO. H19
OF 26 SHEETS



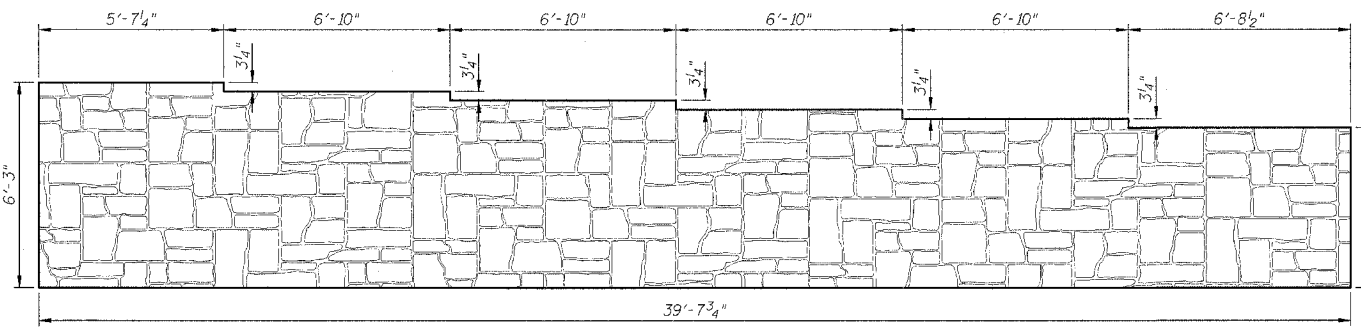
OUTSIDE ELEVATION OF PARAPET



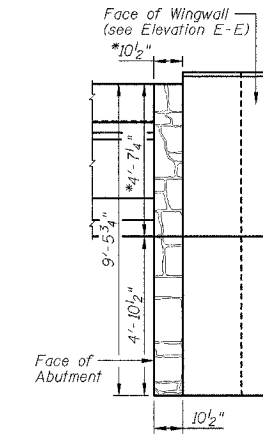
ELEVATION A-A



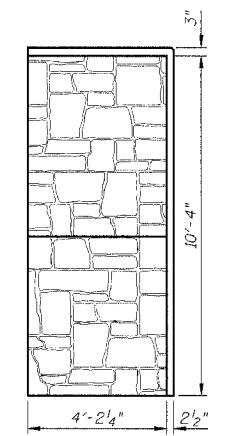
ELEVATION B-B



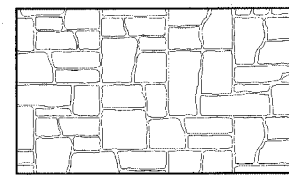
NORTH ABUTMENT ELEVATION (C-C) - LOOKING NORTH



ELEVATION D-D



ELEVATION E-E

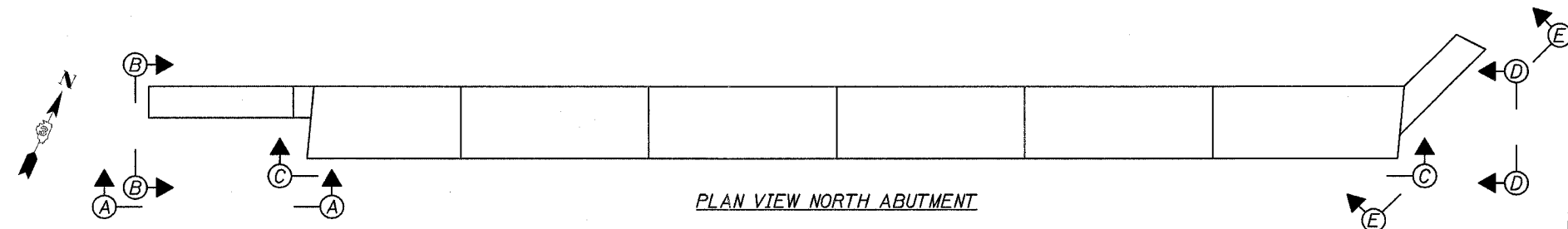


EXAMPLE OF RUSTICATION PATTERN

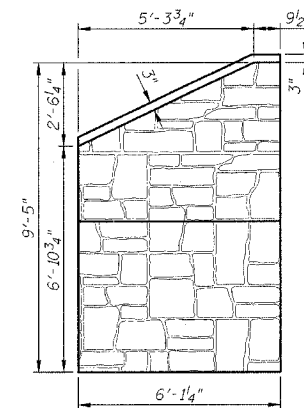
Notes: Maximum Relief = 1/2"
Stone Size = 8"-25"

BILL OF MATERIALS

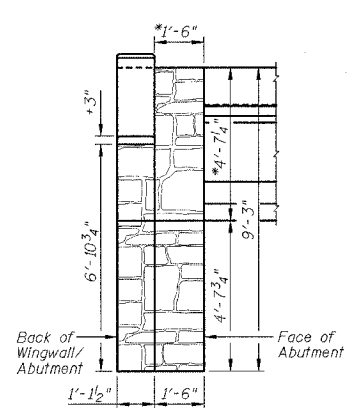
Item	Unit	Super	Sub	Total
Rustication Finish	Sq. Ft.	345	696	1041



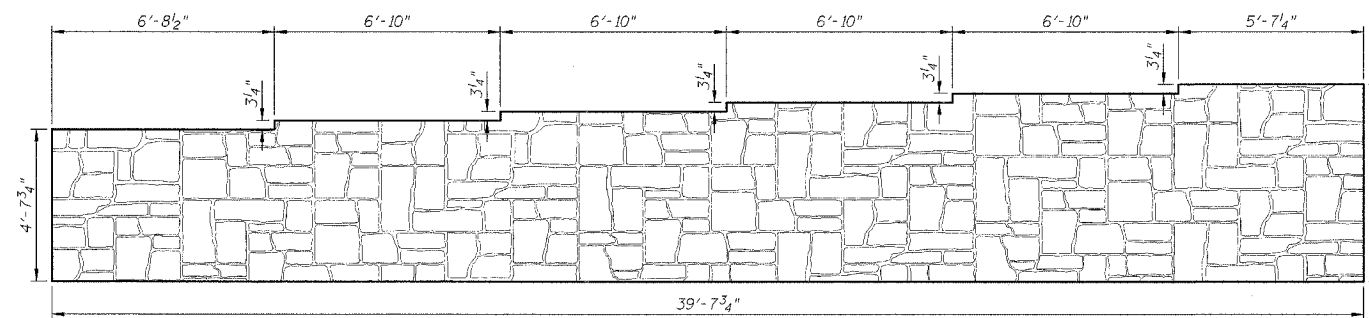
PLAN VIEW NORTH ABUTMENT



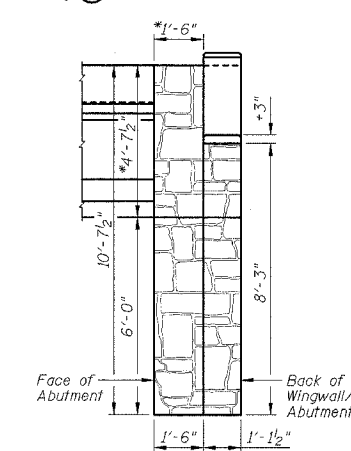
ELEVATION F-F



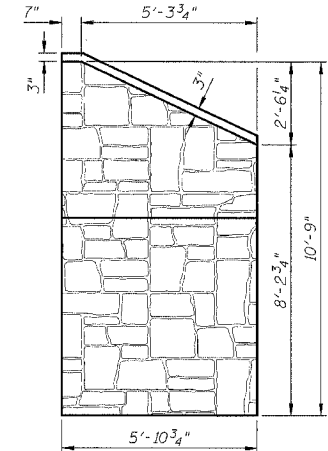
ELEVATION G-G



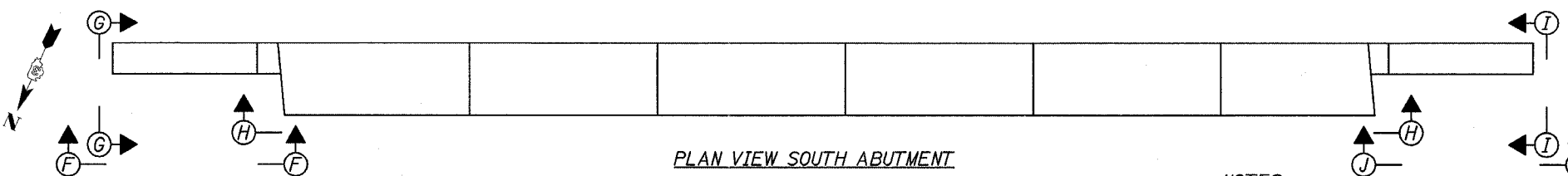
SOUTH ABUTMENT ELEVATION (H-H) - LOOKING SOUTH



ELEVATION I-I



ELEVATION J-J



PLAN VIEW SOUTH ABUTMENT

NOTES:
1.) *Indicates Superstructure dimensions for quantities.
2.) Work this sheet with Sheets H2, H3, H7, H9, H10, H12 thru H14, H17 and H18.

RUSTICATION FINISH LOCATIONS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
3700 McGraw Drive
Bloomington, Illinois 61704
309/883-8438, 309/883-1871 fax

FILE NO.: 24-6772
DATE: 05-12-06
SHEET NO.: 79 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	80
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H20
OF 26 SHEETS



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

Date 2/1/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
 SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	STATION	DEPTH (ft)	DEPTH (ft)	BLOWS	UNCONSOLIDATED	MOISTURE (%)	GROUNDWATER ELEV. (ft)	DEPTH (ft)	BLOWS	UNCONSOLIDATED	MOISTURE (%)	SOIL DESCRIPTION
050-2002 EXISTING	465+26				Qu					Qu		
		558.54										BITUMINOUS CONCRETE Over CONCRETE
		556.04										AUGER SAMPLE Black LOAM
		554.04										Medium Black/Brown LOAM TILL (FILL)
		551.54										Stiff Brown LOAM TILL (FILL) at 9.5' Hit Possible Limestone Backfill
												Brown LOAM TILL over LIMESTONE AND WEATHERED SANDSTONE
		546.54										Stiff Brown SANDY LOAM TILL
		544.04										Medium Gray/Brown SILTY CLAY TILL

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
 BBS, form 137 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 1 of 1

Date 2/1/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
 SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE CORING METHOD

STRUCT. NO.	STATION	DEPTH (ft)	DEPTH (ft)	CORE DIAMETER (in)	TOP OF ROCK ELEV. (ft)	BEGIN CORE ELEV. (ft)	GROUND SURFACE ELEV. (ft)	RECOVERY (%)	RECOVERY (%)	CORE TIME (min/ft)	STRENGTH (tsf)	SOIL DESCRIPTION
050-2002 EXISTING	465+26			2.1	540.04	537.04	537.04					
		537.04						1	97	83	63.2	ST. PETER SANDSTONE, Light Gray to White, Poorly Cemented to Highly Cemented (RUN 2), VERY ABRASIVE
												Qu Moisture Sample Run 1 = 5.4%
												Qu Moisture Sample Run 2 = 6.9%
		527.04										End of Boring

Color pictures of the cores YES
 Cores will be stored for examination until 2003
 The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
 BBS, form 138 (Rev. 8-99)

DESIGNED BY <u>J.M.L.</u>	 2700 McGraw Drive Bloomington, Illinois 61704 309/893-8636, 309/893-1671 fax	FILE NO. <u>24-6772</u>
DRAWN BY <u>D.J.M.</u>		DATE <u>05-12-06</u>
CHECKED BY <u>M.S.W.</u>		SHEET NO. <u>80 of 106</u>

SOIL BORING/ROCK CORE LOGS
 IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+35.39
 STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	81
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



SOIL BORING LOG

Date 2/5/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
 SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	STATION	BORING NO.	DESCRIPTION	DEPTH (ft)	BLOW COUNT	UCS (tsf)	MOISTURE (%)	DEPT (ft)	BLOW COUNT	UCS (tsf)	MOISTURE (%)
050-2002 EXISTING	465+26	CULVERT 13 WBL	Stiff Gray/Brown SILTY CLAY TILL with Wood @ 21 to 21.5' (continued)	2	7	-	27.0	2	7	-	27.0
			Dense ST. PETER SANDSTONE	10	10	B	3.0	10	10	B	3.0
			End of Boring	100/1*	-	-	4.0	100/1*	-	-	4.0
			Stiff Brown LOAM TILL and Red-Gray CLAY (FILL)	5	2	2.0	20.0	5	2	2.0	20.0
				6	2	1.5	21.0	6	2	1.5	21.0
				4	4	P		4	4	P	
				10	6	-		10	6	-	
				4	2	2.0	16.0	4	2	2.0	16.0
				4	4	P		4	4	P	
			Medium Brown LOAM TILL ROCK IN TUBE @ 12.5 TO 14.0' NO RECOVERY @ 15.0 TO 16.5'	23	49	-	-	23	49	-	-
				11	-	-		11	-	-	
				7	-	-		7	-	-	
				3	-	-		3	-	-	
				4	-	-		4	-	-	
				3	3	0.7	21.0	3	3	0.7	21.0
				3	3	B		3	3	B	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



SOIL BORING LOG

Date 2/5/01

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
 SECTION (M)W&RS,(I-1,D)R,W,&RS STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
 COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO.	STATION	BORING NO.	DESCRIPTION	DEPTH (ft)	BLOW COUNT	UCS (tsf)	MOISTURE (%)	DEPT (ft)	BLOW COUNT	UCS (tsf)	MOISTURE (%)
050-2002 EXISTING	465+26	CULVERT 13 EBL	Stiff Black/Dark Brown SILTY CLAY TILL with COAL Fragments (continued)	2	4	1.9	34.0	2	4	1.9	34.0
			Dense ST. PETER SANDSTONE	5	5	B		5	5	B	
			End of Boring	100/1*	-	-	2.0	100/1*	-	-	2.0
			Very Stiff Red/Gray/Brown SHALE & LOAM (FILL)	6	5	2.5	16.0	6	5	2.5	16.0
				4	4	P		4	4	P	
				6	3	3.5	18.0	6	3	3.5	18.0
				4	4	P		4	4	P	
			Very Stiff Dark Brown SILTY CLAY TILL	2	3	2.5	23.0	2	3	2.5	23.0
				3	3	P		3	3	P	
				3	3	1.8	21.0	3	3	1.8	21.0
				5	5	P		5	5	P	
			Very Stiff Black/Brown LOAM TILL	5	3	2.3	25.0	5	3	2.3	25.0
				3	3	P		3	3	P	
			Very Stiff Black/Brown/Gray SILTY CLAY TILL with COAL Fragments	3	4	2.3	27.0	3	4	2.3	27.0
				3	3	P		3	3	P	

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
 The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

DESIGNED BY J.M.L. FILE NO. 24-6772
 DRAWN BY D.J.M. DATE 05-12-06
 CHECKED BY M.S.W. SHEET NO. 81 OF 106

2700 McGraw Drive
 Bloomington, Illinois 61704
 309/898-8635, 309/898-1871 fax

SOIL BORING/ROCK CORE LOGS
 IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY
 STATION 465+35.39
 STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	82
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SHEET NO. H22
OF 26 SHEETS



Illinois Department of Transportation
Division of Highways
Illinois Department of Transportation

ROCK CORE LOG

Page 2 of 2

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
(M)W&RS,(I-1,D)R,W,&RS
SECTION STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
COUNTY LASALLE CORING METHOD _____

STRUCT. NO. 050-2002 EXISTING CORING BARREL TYPE & SIZE _____

Station 465+26
BORING NO. 03 CULVERT 13 EBL
Station 465+05 Core Diameter _____ in
Offset 7.00R RT Top of Rock Elev. _____ ft
Ground Surface Elev. 561.99 ft Begin Core Elev. 537.99 ft

DEPTH (ft)	CORE (#)	RECOVERY (%)	R.Q.D. (%)	CORE TIME (min/ft)	STRENGTH (tsf)
Stiff Black/Dark Brown SILTY CLAY TILL with COAL Fragments (continued)					
539.99					
Dense ST. PETER SANDSTONE					
537.99					
	1	99	96		133.0
ST. PETER SANDSTONE, Whitish to Yellow Brown, Iron Stained, Case Hardened, Poorly to Highly Cemented, Very Abrasive					
Qu Moisture Run 1 = 4.1%					
Qu Moisture Run 2 = 6.6%					
Qu Moisture Run 3 = 3.7%					
	2	48	27		58.0
	3	50	17		137.0
522.99					
End of Boring					

Color pictures of the cores _____
Cores will be stored for examination until _____
The "Strength" column represents the uniaxial compressive strength of the core sample (ASTM D-2938)
BBS, form 138 (Rev. 8-99)



Illinois Department of Transportation
Division of Highways
District #3, Ottawa

SOIL BORING LOG

Page 1 of 1

ROUTE FAP 627(IL71) DESCRIPTION IL 71 OVER BOX CULVERT AT HENNEPIN CANYON LOGGED BY B.S.
(M)W&RS,(I-1,D)R,W,&RS
SECTION STARVED ROCK PARK LOCATION SE 1/4, SEC. 23, TWP. 33N, RNG. 2E, 3rd PM
COUNTY LASALLE DRILLING METHOD HOLLOW STEM AUGER HAMMER TYPE AUTOMATIC

STRUCT. NO. 050-2002 EXISTING
Station 465+26

BORING NO. 04 CULVERT 13 EBL
Station 465+52
Offset 6.00R RT
Ground Surface Elev. 561.70 ft

DEPTH (ft)	BLOW COUNT (Blows/ft)	UCS (tsf)	MOISTURE (%)	Surface Water Elev. (ft)	Stream Bed Elev. (ft)	Groundwater Elev. (ft)	First Encounter Upon Completion After Hrs.	DEPTH (ft)	BLOW COUNT (Blows/ft)	UCS (tsf)	MOISTURE (%)
NO SAMPLES. BORING IS FOR ELEVATION OF TOP OF BEDROCK ONLY											
								540.20			
NO SAMPLES. BORING IS FOR ELEVATION OF TOP OF BEDROCK ONLY (continued)											
TOP OF SANDSTONE End of Boring											

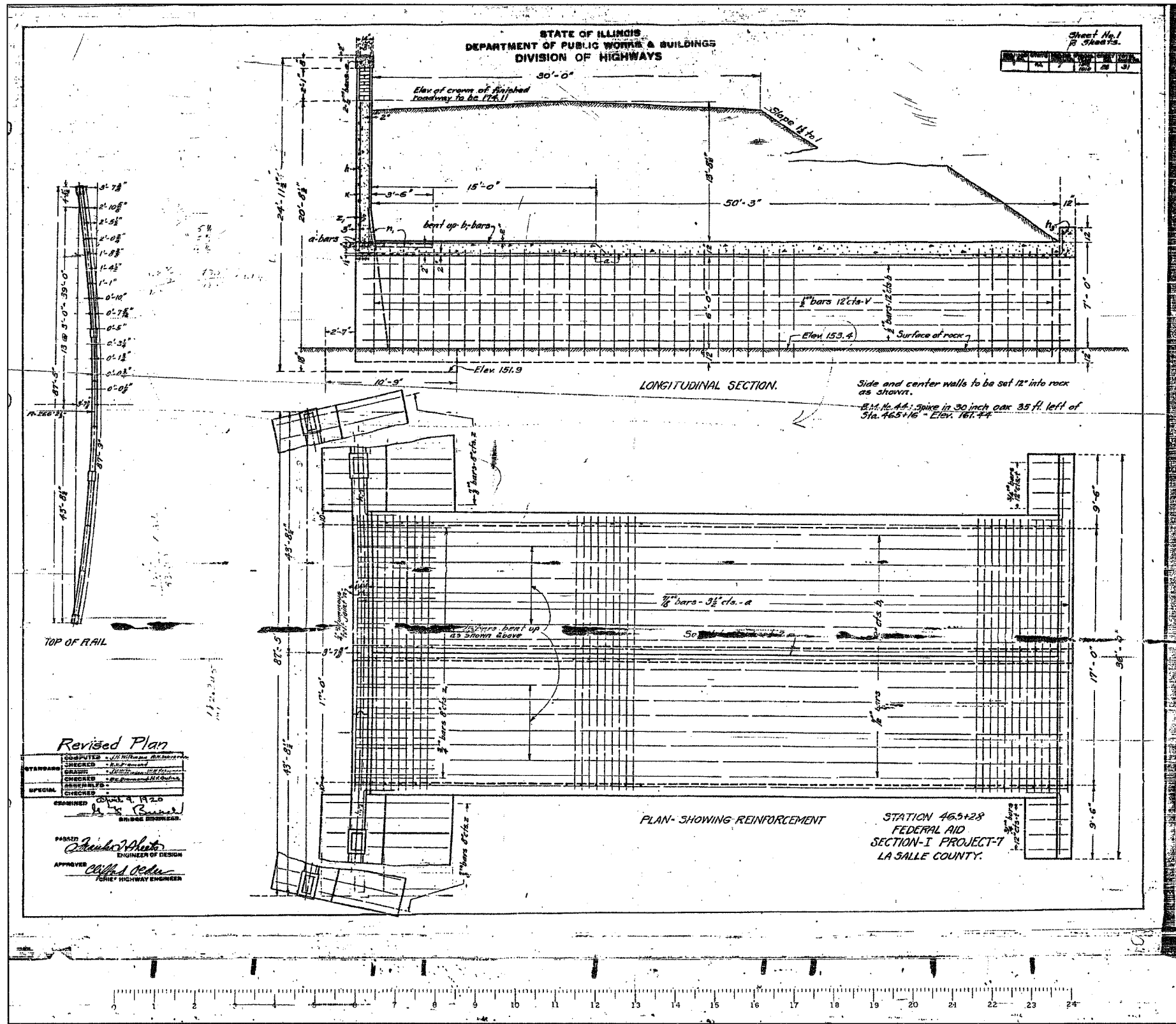
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, from 137 (Rev. 8-99)

DESIGNED BY J.M.L.	 2700 McGraw Drive Woodstock, Illinois 61704 309/958-8435, 309/958-1971 fax	FILE NO. 24-6772
DRAWN BY D.J.M.		DATE 05-12-06
CHECKED BY M.S.W.		SHEET NO. 82 of 106

SOIL BORING/ROCK CORE LOGS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	83
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. H23
OF 26 SHEETS



FOR INFORMATIONAL
USE ONLY

EXISTING PLANS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

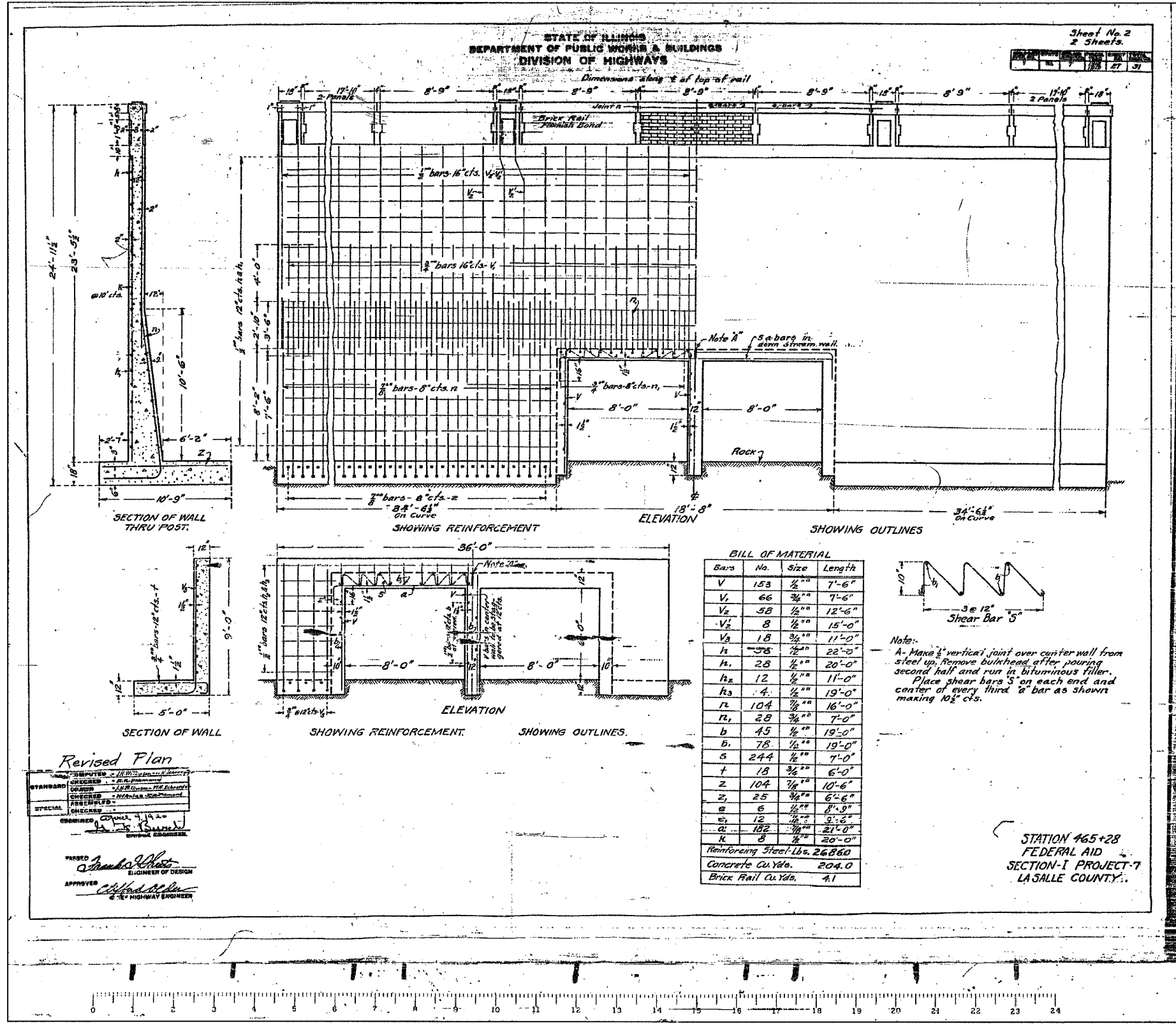
DESIGNED BY: J.M.L.
DRAWN BY: D.J.M.
CHECKED BY: M.S.W.

Farnsworth GROUP
2706 Midway Drive
Bloomington, Illinois 61704
308/833-8435, 308/833-8771 ext.

FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 83 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	84
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

SHEET NO. H24
OF 26 SHEETS



FOR INFORMATIONAL
USE ONLY

EXISTING PLANS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY
J.M.L.

DRAWN BY
D.J.M.

CHECKED BY
M.S.W.

Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/553-5635, 309/553-5711

FILE NO.
24-6772

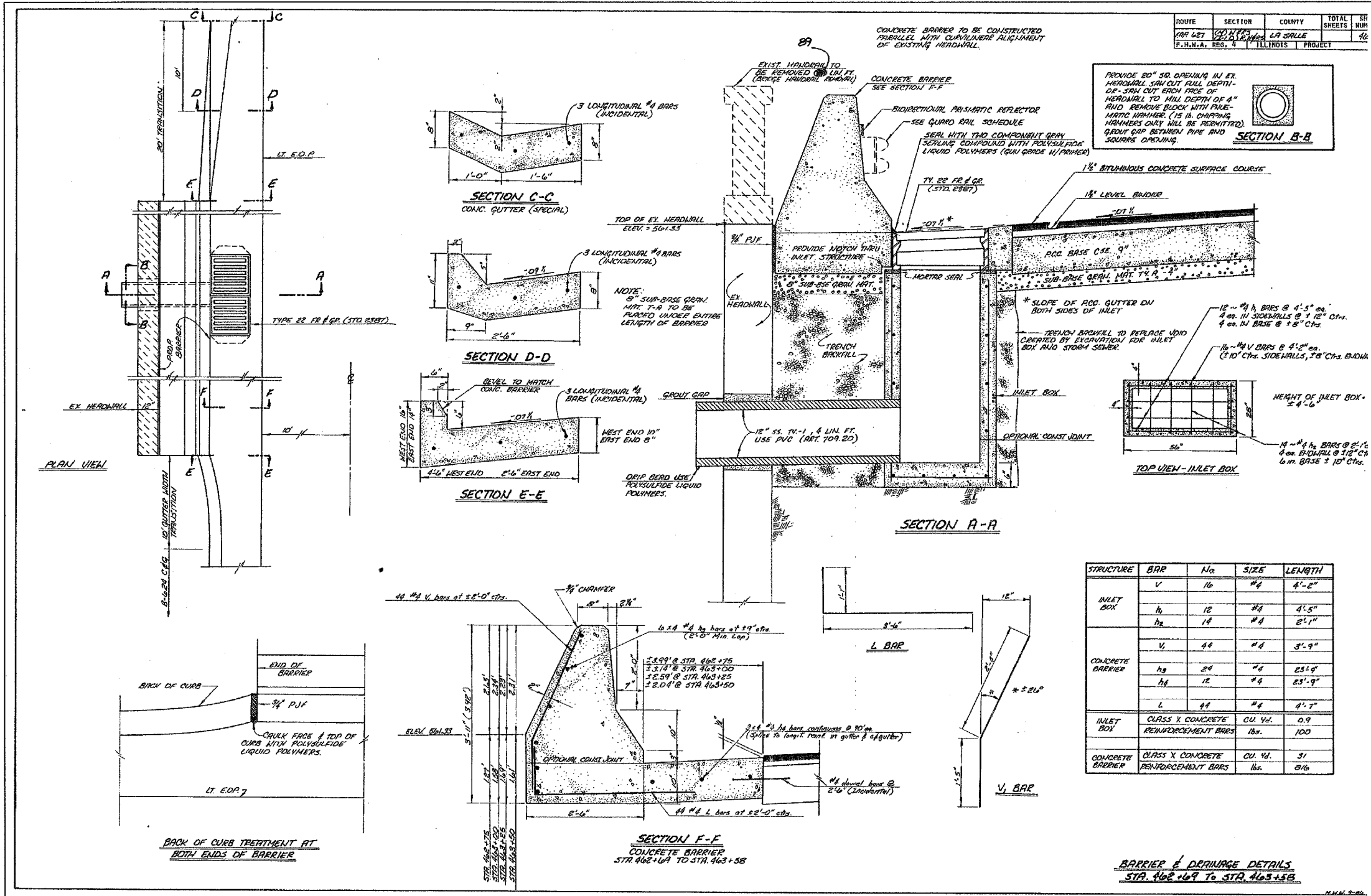
DATE
05-12-06

SHEET NO.
84 of 106

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	85
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

SHEET NO. H25
OF 26 SHEETS

ROUTE	SECTION	COUNTY	TOTAL SHEETS	SH. NUM.
1005 WET	1005 WET	LA SALLE	106	85
F.H.N.A. RES. 4		ILLINOIS	PROJECT	

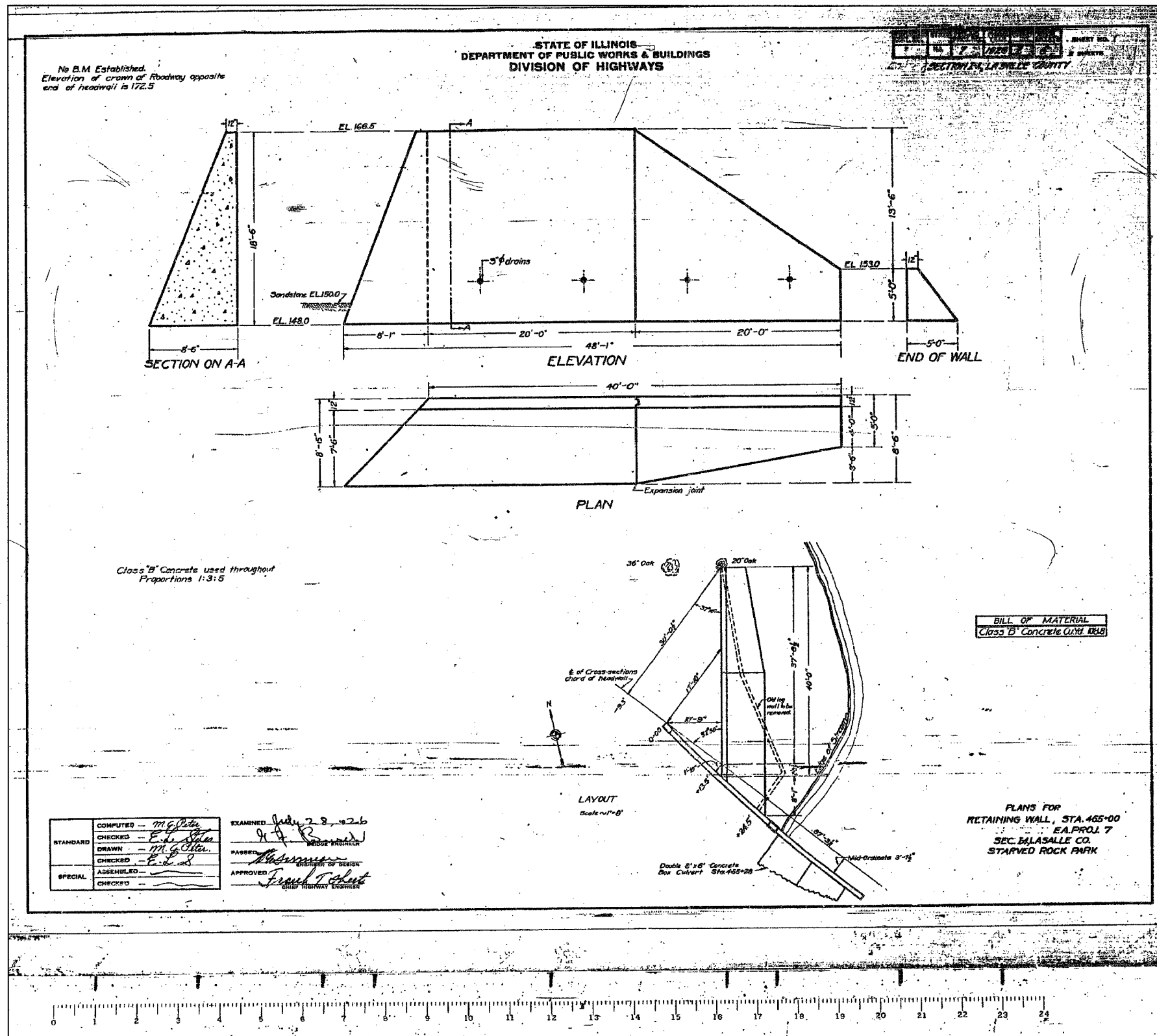


FOR INFORMATIONAL
USE ONLY

EXISTING PLANS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	86
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

SHEET NO. H26
OF 26 SHEETS



FOR INFORMATIONAL
USE ONLY

DESIGNED BY	COMPUTED	M.G. O'Brien	EXAMINED	July 28, 1926
DRAWN BY	CHECKED	E.L. O'Brien	PAVED	[Signature]
CHECKED BY	DRAWN	M.G. O'Brien	APPROVED	[Signature]
SPECIAL	CHECKED	E.L. O'Brien	APPROVED	[Signature]

BILL OF MATERIAL
Class B Concrete 1:3:5

PLANS FOR
RETAINING WALL, STA. 465+00
EA. PROJ. 7
SEC. LA SALLE CO.
STARVED ROCK PARK

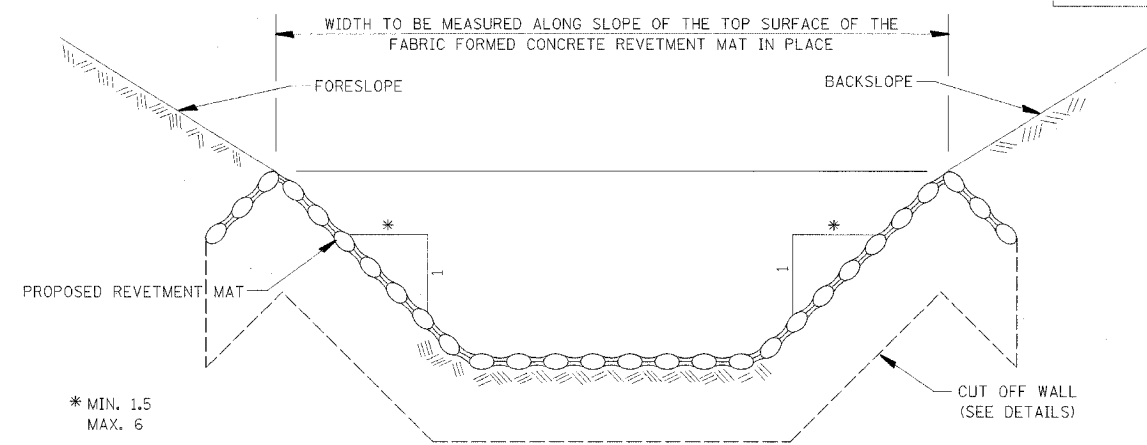
EXISTING PLANS
IL ROUTE 71
OVER TRIBUTARY TO ILLINOIS RIVER
F.A.P. ROUTE 627 - SEC. (I-1) BR & I
LA SALLE COUNTY
STATION 465+35.39
STRUCTURE NO. 050-0239

DESIGNED BY J.M.L.
DRAWN BY D.J.M.
CHECKED BY M.S.W.

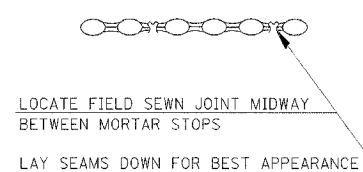
Farnsworth GROUP
2700 McGraw Drive
Bloomington, Illinois 61704
309/893-3435, 309/893-1271 fax

FILE NO. 24-6772
DATE 05-12-06
SHEET NO. 86 of 106

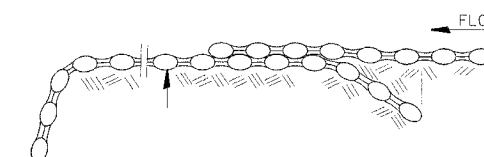
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	87
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



TYPICAL FABRIC FORMED CONCRETE REVETMENT MAT LINED DITCH
NOT TO SCALE

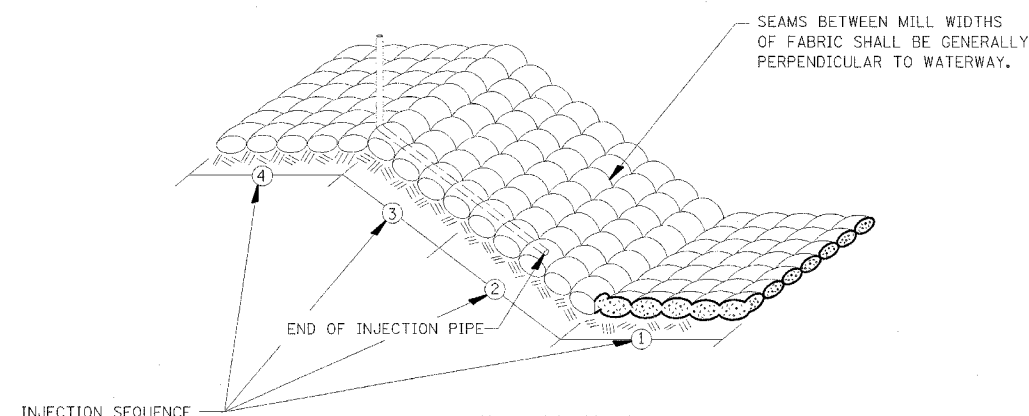


TYPICAL SECTION THRU FILTER POINT MAT



CUT OFF WALL
(BEGINNING AND END OF MAT)

LAYOUT OF FILTER POINTS
NOT TO SCALE



INSTALLATION DETAILS
NOT TO SCALE

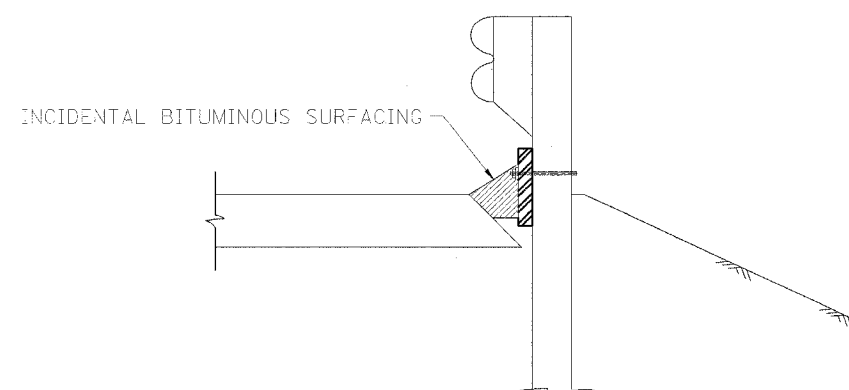
GENERAL NOTES

1. IN PLACING INSERT POINTS THROUGH FABRIC USE CARE TO AVOID BREAKING DROP STITCHES.
2. CUT OFF WALLS SHALL BE INSTALLED AT THE UPSTREAM AND DOWNSTREAM ENDS.

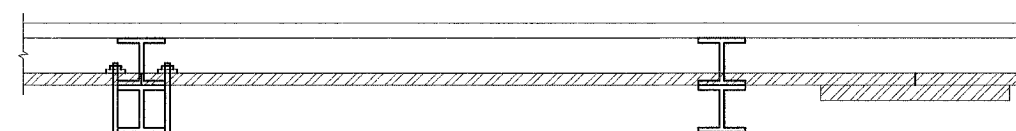
285-1

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		FABRIC FORMED REVTMENT MAT DETAILS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	88
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



SIDE VIEW



TOP VIEW

SPLICE PLATE 2" x 12", 2' LONG WITH #16 GALVANIZED NATL TO THE TREATED TIMBER CURB (COST INCLUDED). SPLICE PLATE TO BE TREATED TIMBER.

NOTE:
 THE TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

THE TREATED TIMBER SHALL BE TREATED IN ACCORDANCE TO ARTICLE 1007.12 AND ALL PRESERVATIVES SPECIFIED IN THE ARTICLE WILL BE ALLOWED.

THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE U-BOLTS ATTACHING THE TREATED TIMBER TO THE GUARDRAIL POSTS, TREATED TIMBER, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

INCIDENTAL BITUMINOUS SURFACING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR EROSION CONTROL CURB.

THE EROSION CONTROL CURB SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT.

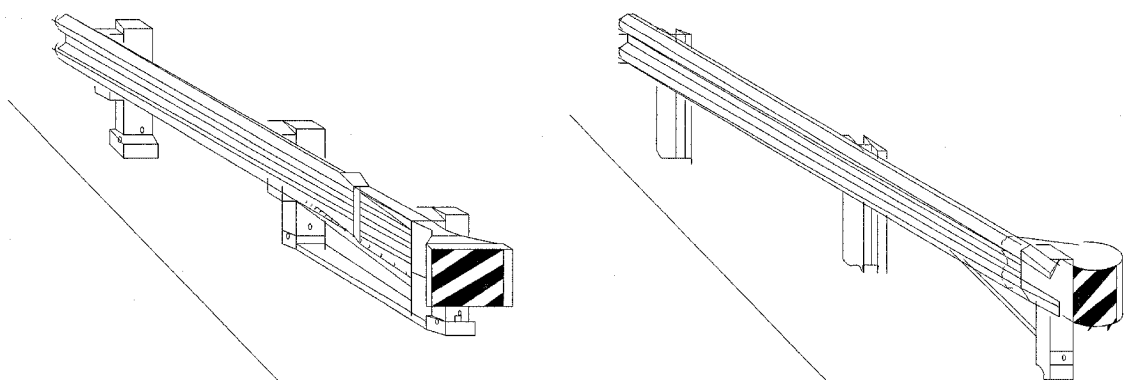
661-1

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		EROSION CONTROL CURB

SCALE: VERT. _____
 HORIZ. _____

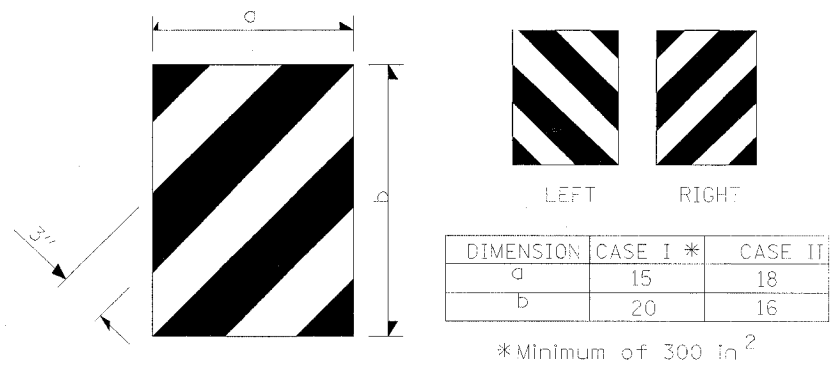
DATE: _____

DRAWN BY _____
 CHECKED BY _____

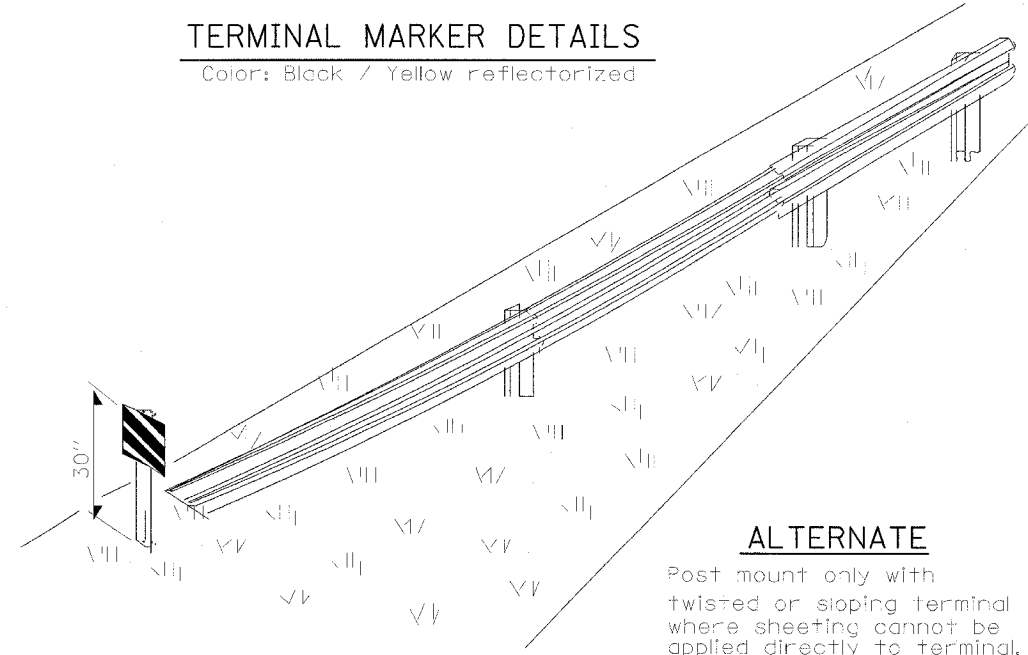


CASE I

CASE II

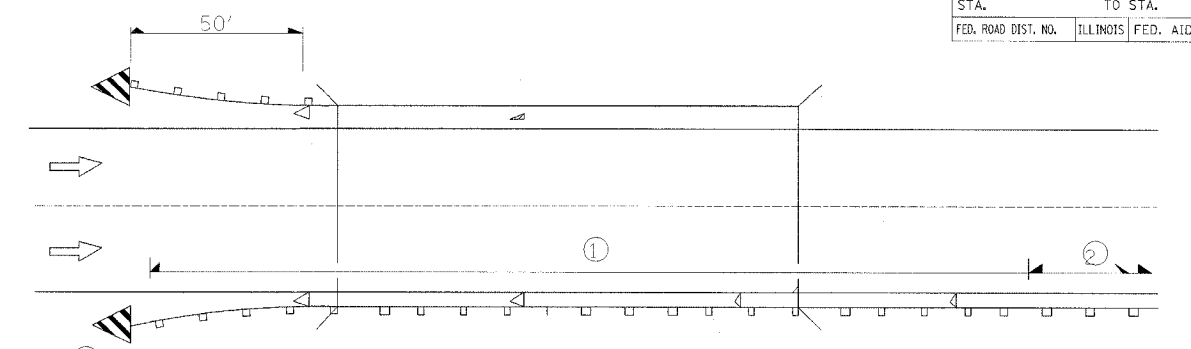


TERMINAL MARKER DETAILS
Color: Black / Yellow reflectorized



ALTERNATE

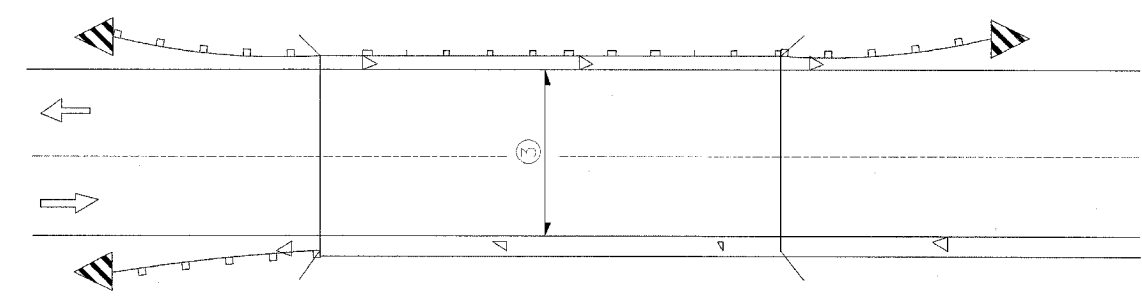
Post mount only with twisted or sloping terminal where sheeting cannot be applied directly to terminal.



Spacing 80 ft max. for first 400 ft or curve spacing shown in Standard 635001, whichever is less (min. 4 reflectors regardless of length).

After 400 ft, transition to normal delineator spacing shown in Standard 635001, and continue as required.

ONE-WAY TRAFFIC

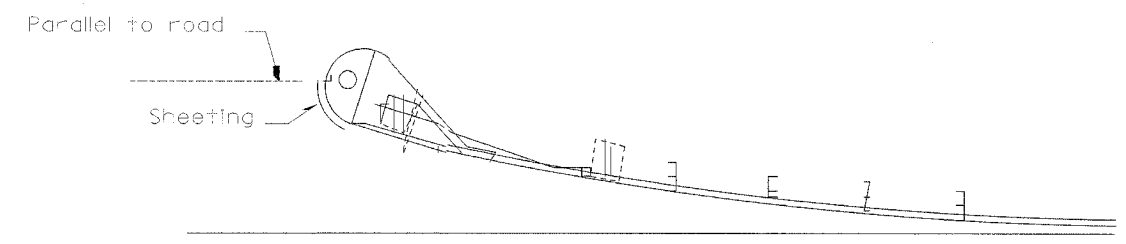


Bidirectional silver/silver should be used in lieu of monodirectional silver on both sides of two-lane bridges where the pavement is less than 24' wider than the pavement approaching the bridge.

- ◁ Monodirectional silver
- ◄ Monodirectional amber
- ▩ Terminal Marker - Black/Yellow
Left or Right as appropriate

TWO-WAY TRAFFIC

**GUARDRAIL / BARRIER WALL /
BRIDGE RAIL REFLECTORS**



SHEETING POSITION: CASE II

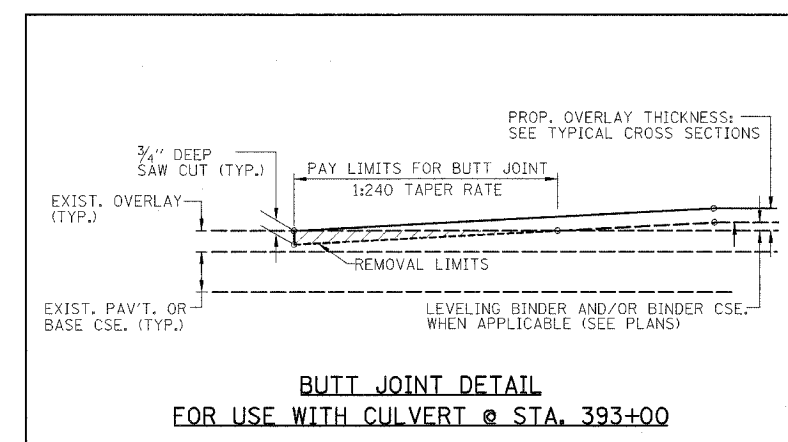
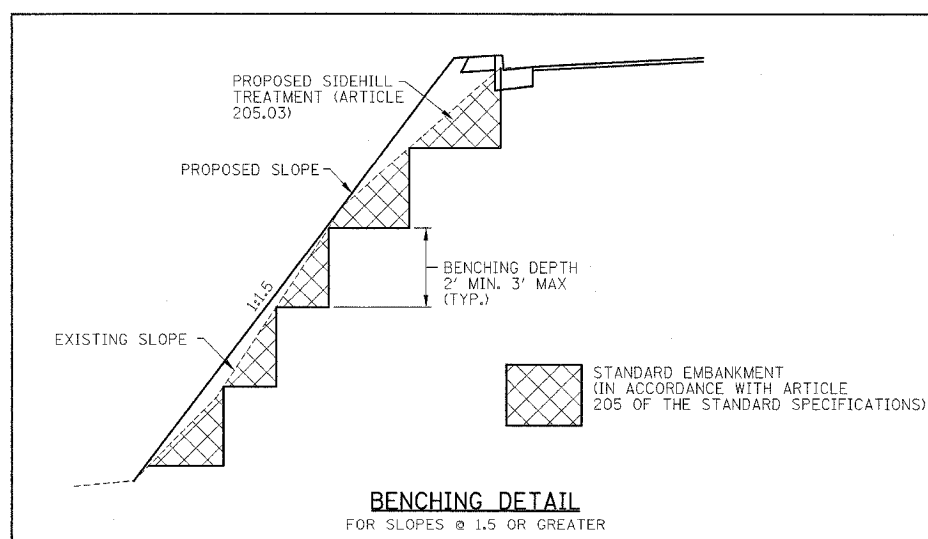
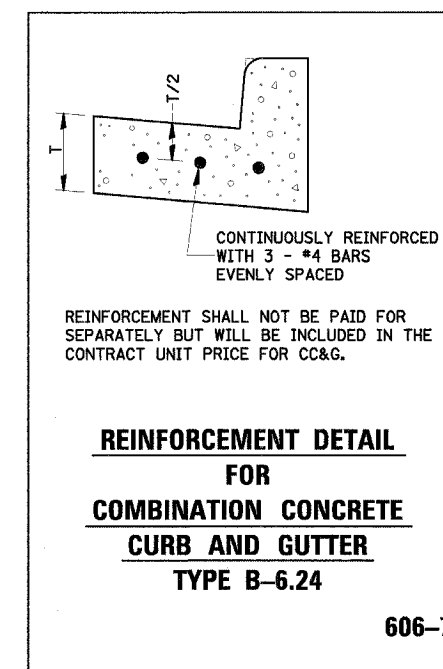
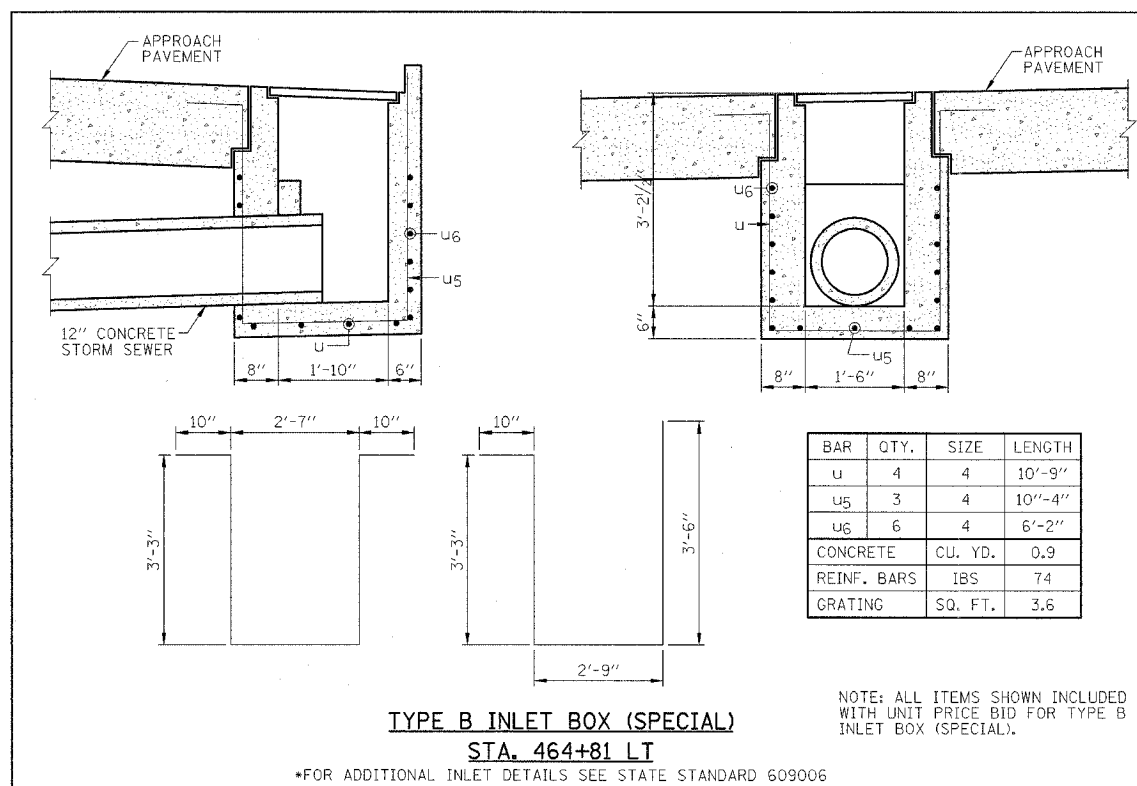
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION	
NAME	DATE		

REFLECTOR AND TERMINAL MARKER PLACEMENT

SCALE: VERT. _____
HORIZ. _____
DATE _____ DRAWN BY _____
CHECKED BY _____

DEC. 2000
DETAILS\600899.DGN
635-1

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	90
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

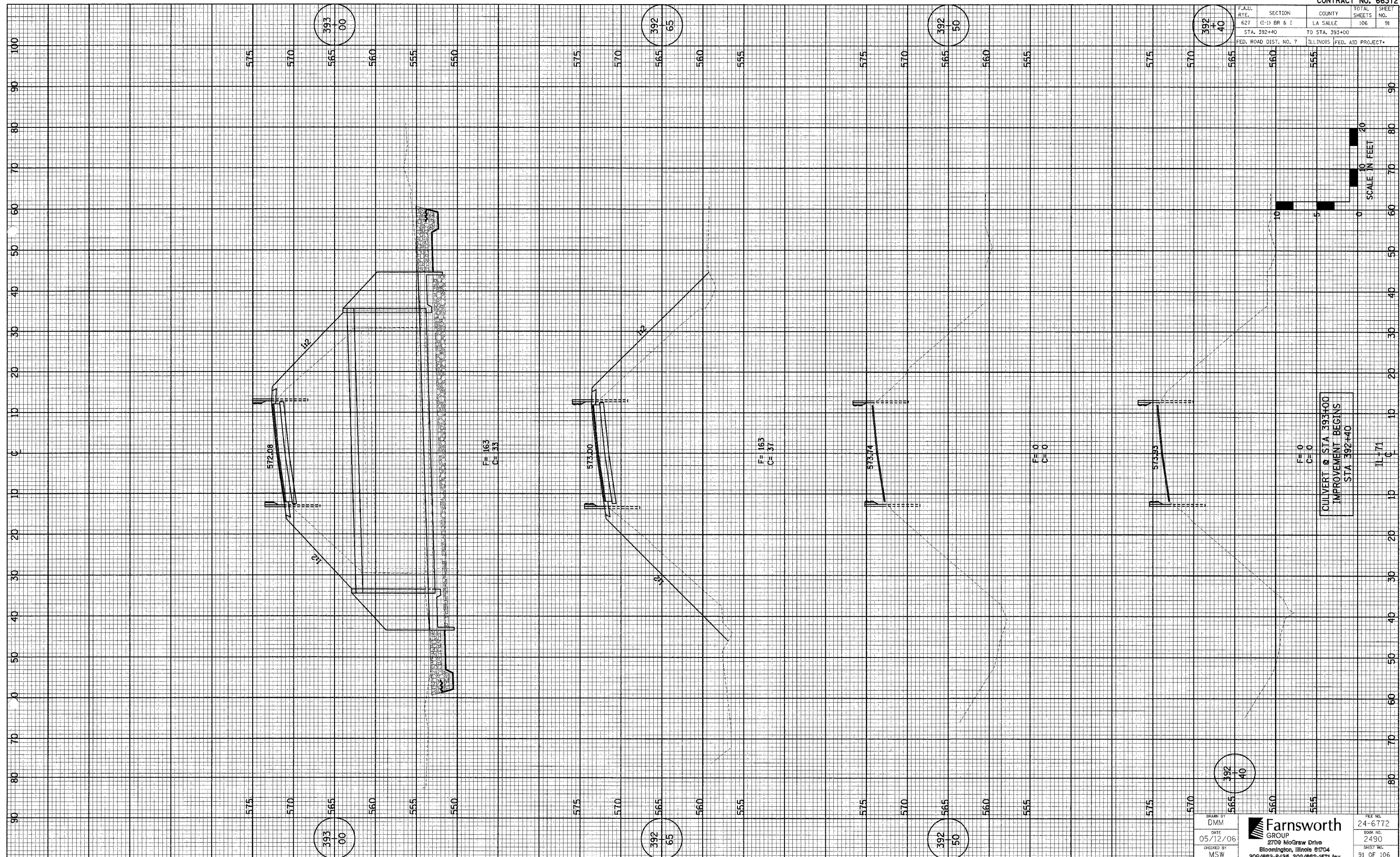


DISTRICT DETAIL & DETAILS

IL ROUTE 71
 OVER TRIBUTARY TO ILLINOIS RIVER
 F.A.P. ROUTE 627 - SEC. (I-1) BR & I
 LA SALLE COUNTY

DESIGNED BY MSW	<p>Farnsworth GROUP 2706 McAndrew Drive Bloomington, Illinois 61704 308/983-8436 308/983-9671 fax</p>	FILE NO. 24-6772
DRAWN BY DJM		DATE 05/12/06
CHECKED BY MSW		SHEET NO. 90 OF 106

F.A.U. SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627 (I-1) BR & I	LA SALLE	106	91
STA. 392+40 TO STA. 393+00			
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*			



F= 163
C= 33

F= 163
C= 37

F= 0
C= 0

F= 0
C= 0

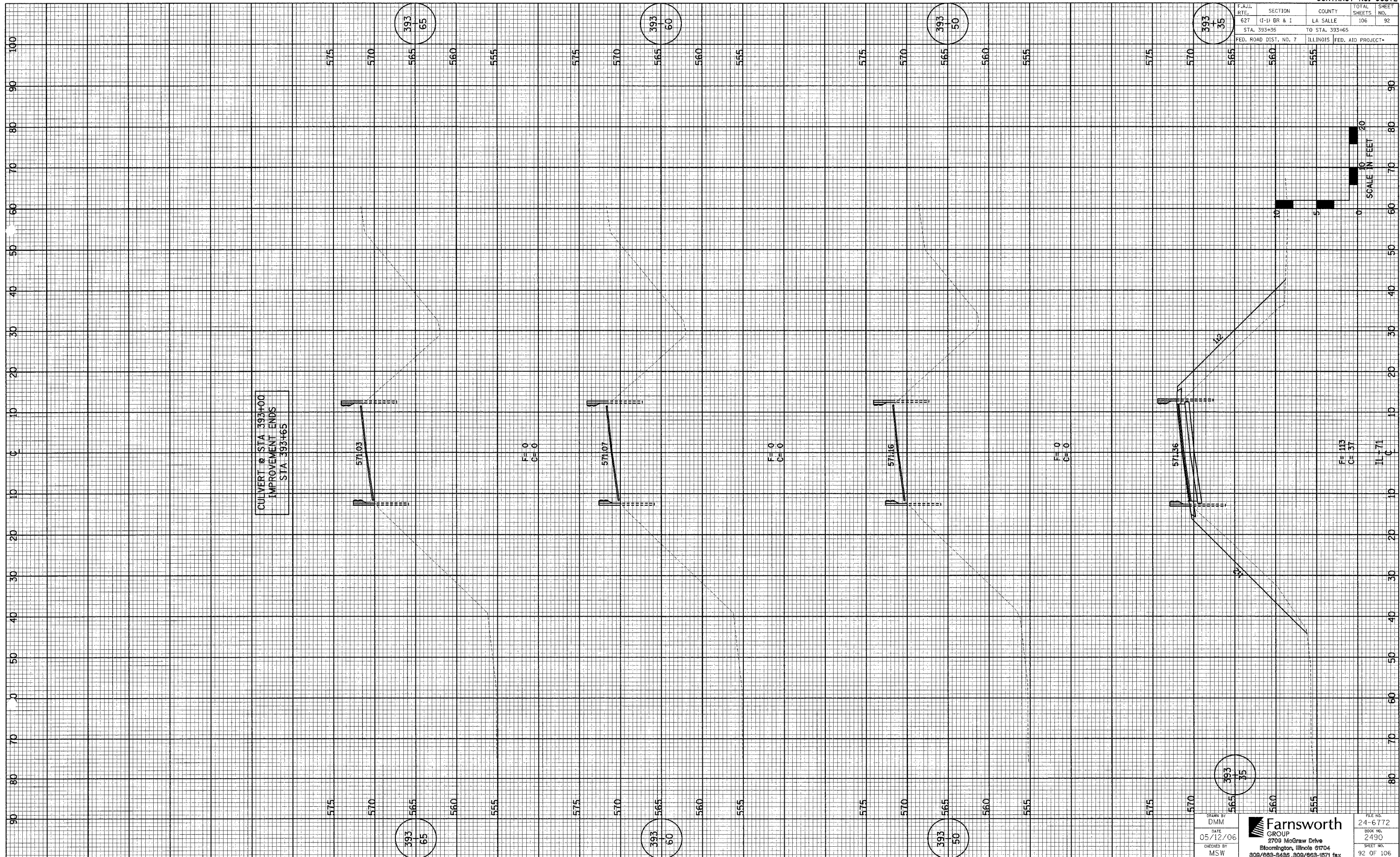
CULVERT @ STA 393+00
IMPROVEMENT BEGINS
STA 392+40

DRAWN BY
DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/663-8435, 309/663-1671 fax

FILE NO.
24-6772
SHEET NO.
2490
SHEET NO.
91 OF 106

F.A.J. RATE:	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-I) BR & 1	LA SALLE	106	92
STA. 393+35		TO STA. 393+65		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*		



CULVERT @ STA 393+00
IMPROVEMENT ENDS
STA 393+65

F = 0
C = 0

F = 0
C = 0

F = 0
C = 0

F = 113
C = 37

SCALE IN FEET

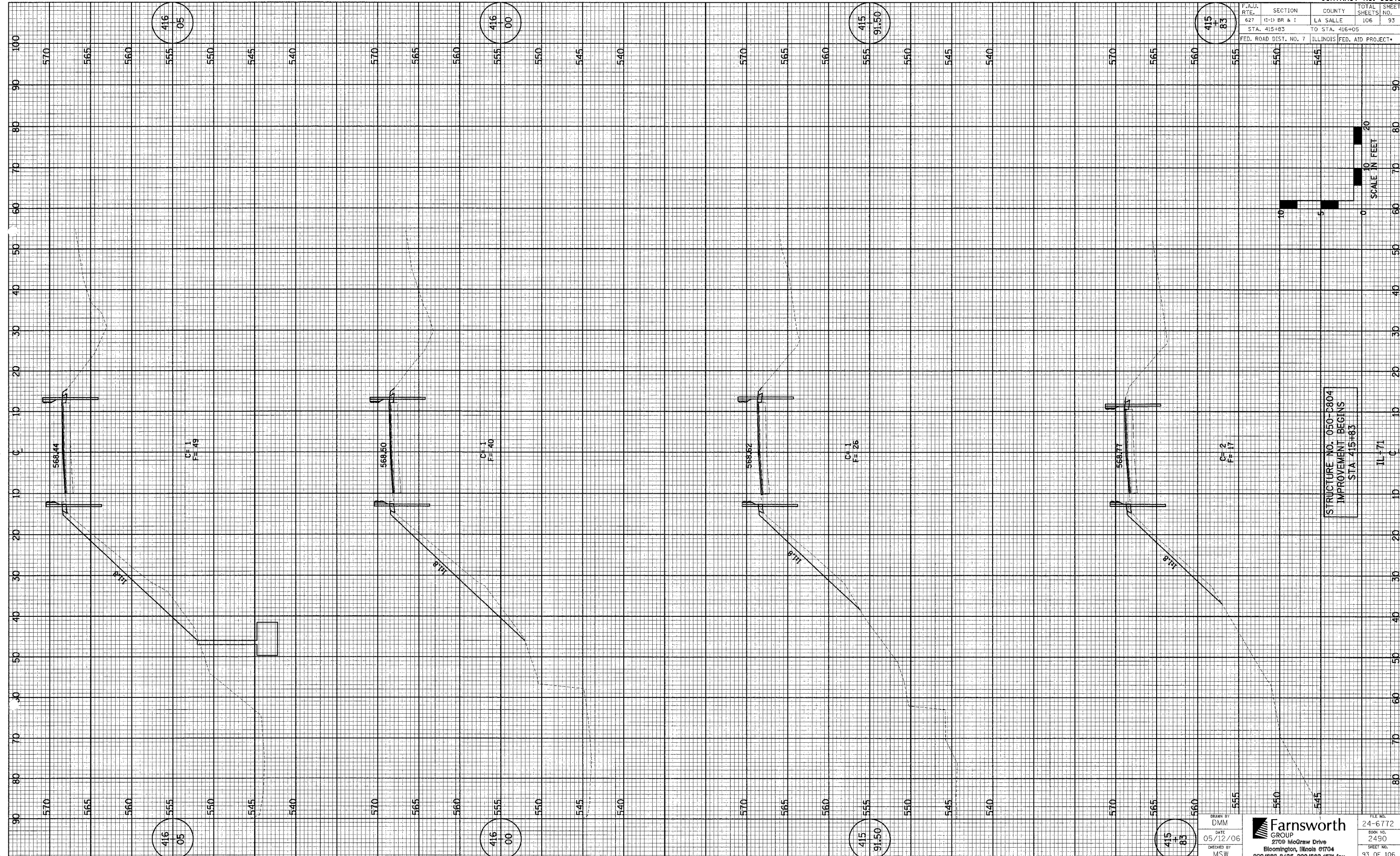
IL-71

DRAWN BY
DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
308/662-2435, 308/662-1671 fax

FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
92 OF 106

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
627	11-D BR & I	LA SALLE	106
STA. 415+83		TO STA. 416+05	93
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*			



416
05

416
00

415
91.50

415
83

416
05

416
00

415
91.50

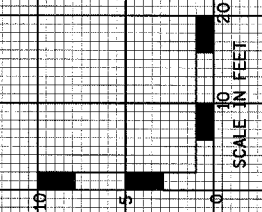
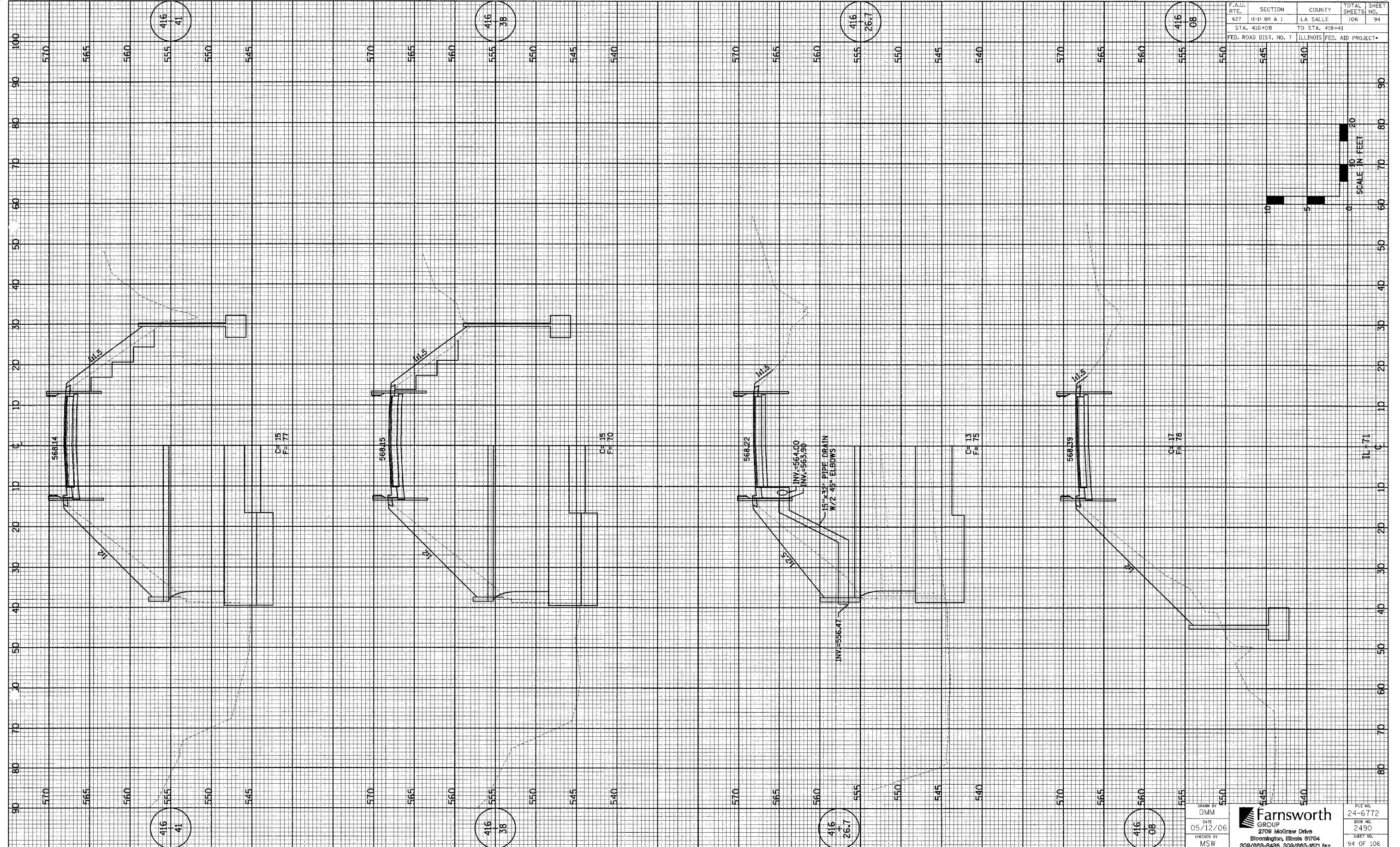
415
83

DRAWN BY
DIMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/683-9435 309/683-1671 fax

FILE NO.
24-6772
BOOK NO.
2430
SHEET NO.
93 OF 106

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & 1	LA SALLE	106	94
STA. 416+08		TO STA. 418+41		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



DRAWN BY: DMM
 DATE: 05/12/06
 CHECKED BY: MSW

Farnsworth GROUP
 2708 McGraw Drive
 Bloomington, Illinois 61704
 309/859-9435 309/863-1671 fax

FILE NO. 24-6772
 BOOK NO. 2490
 SHEET NO. 94 OF 106

416
41

416
38

416
26.7

416
08

416
41

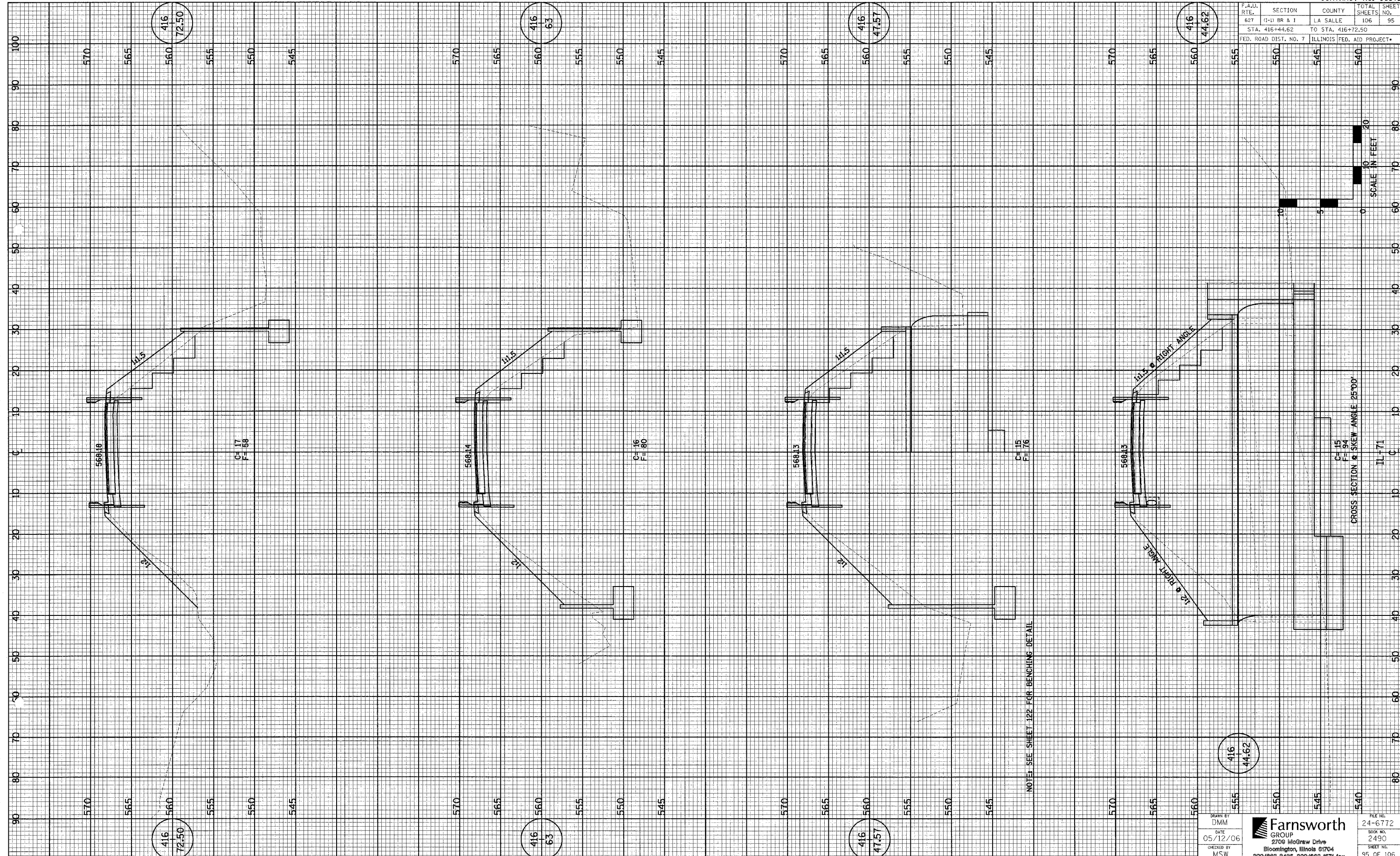
416
38

416
26.7

416
08

IL-71

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	95
STA. 416+44.62		TO STA. 416+72.50		
FED. ROAD DIST. NO. 7		ILLINOIS FED. AID PROJECT*		



416
72.50

416
63

416
47.57

416
44.62

416
72.50

416
63

416
47.57

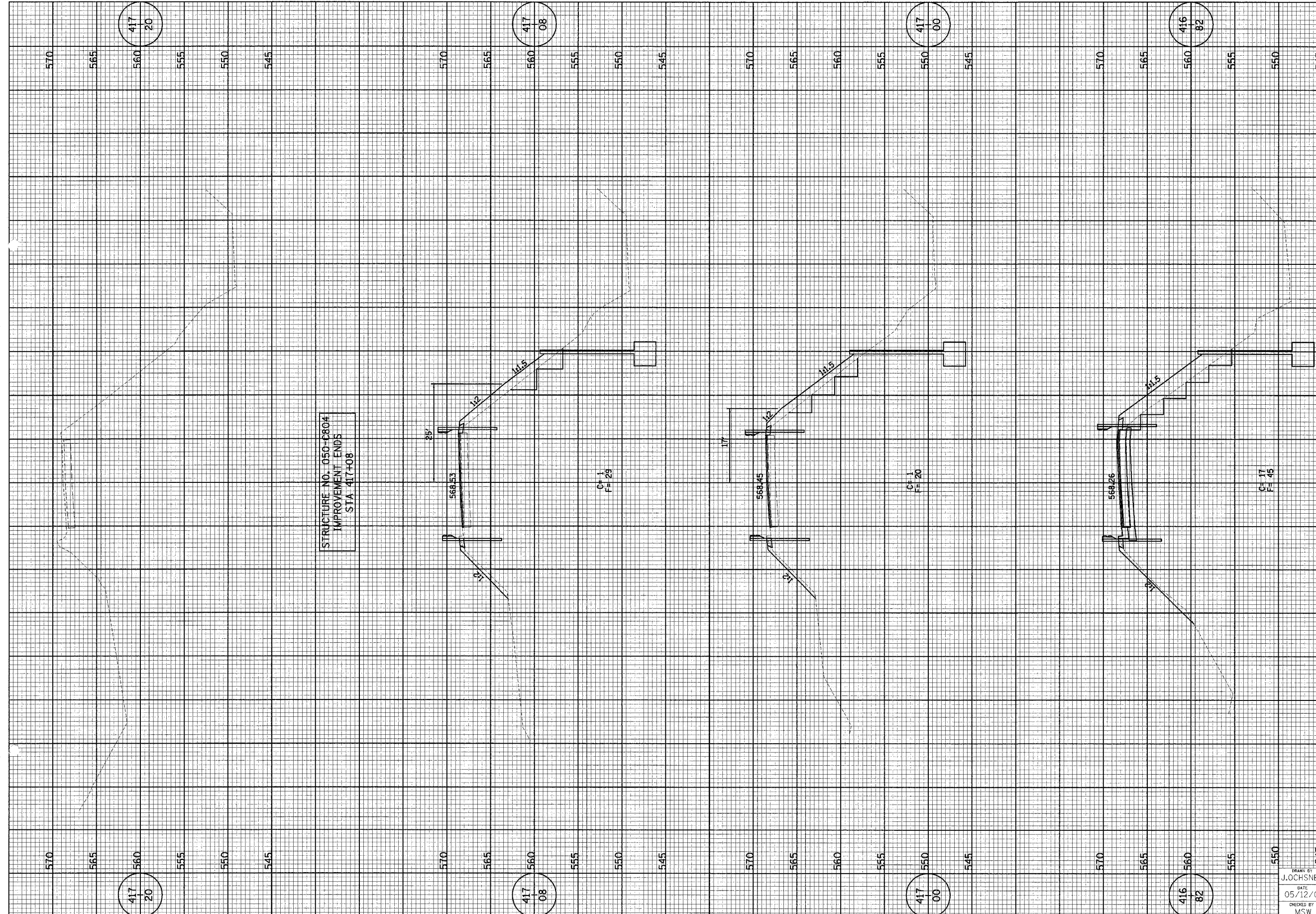
416
44.62

DESIGNED BY
DMM
DATE
05/12/06
CHECKED BY
MSW

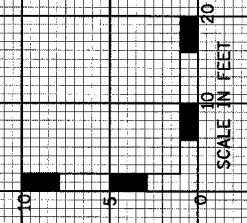
Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/838-3435, 309/838-1671 fax

FILE NO.
24-6772
SHEET NO.
2490
SHEET NO.
95 OF 106

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	96
STA. 416+82		TO STA. 417+08		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



STRUCTURE NO. 050-C804
IMPROVEMENT ENDS
STA 417+08



IL-71

417
+
08

417
+
08

417
+
00

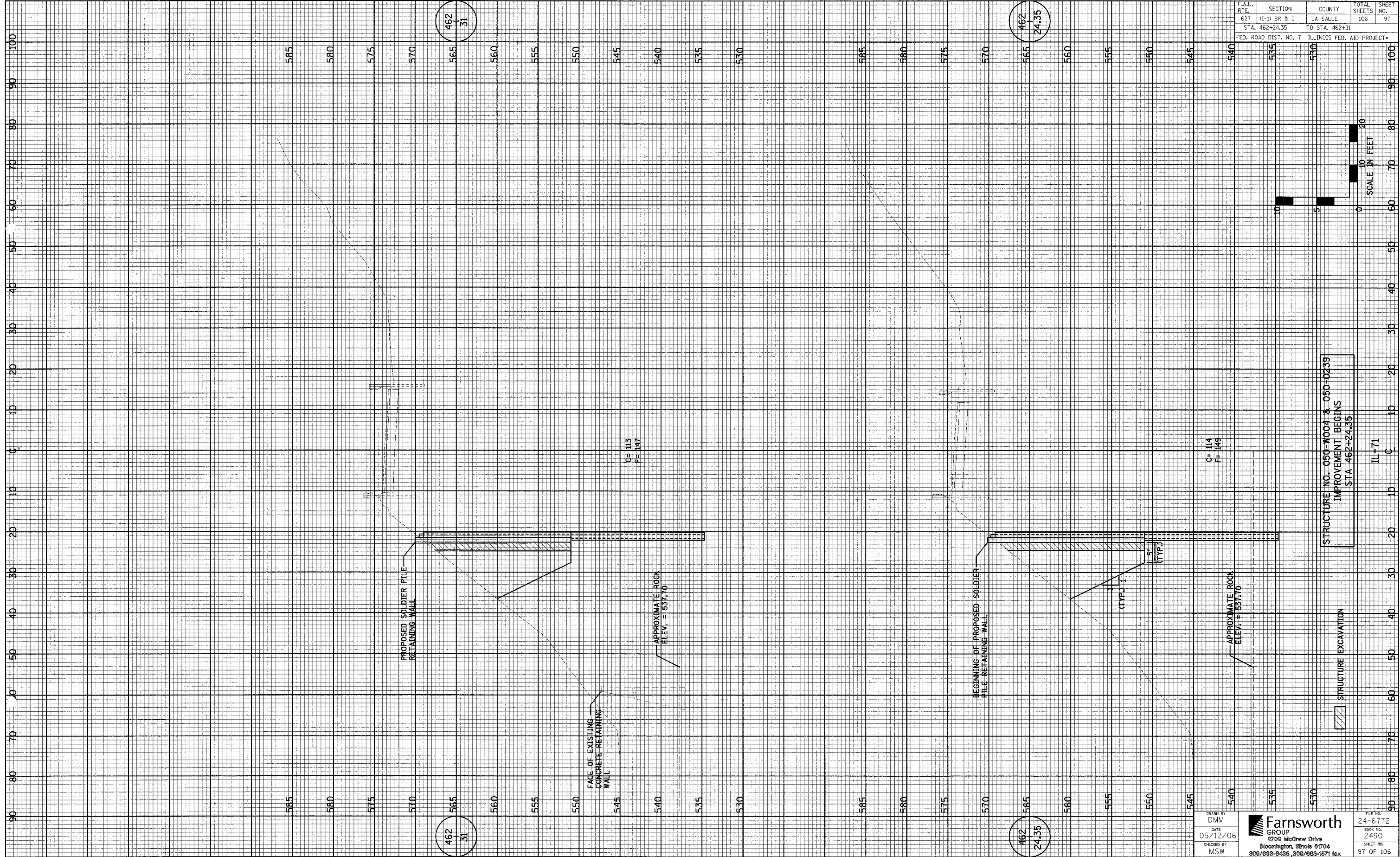
416
+
82

DRAWN BY
J. JOCHNER
DATE
05/12/06
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/898-8435, 309/898-1571 fax

FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
96 OF 106

F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-D) BR & I	LA SALLE	106	97
STA. 462+24.35		TO STA. 462+31		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				

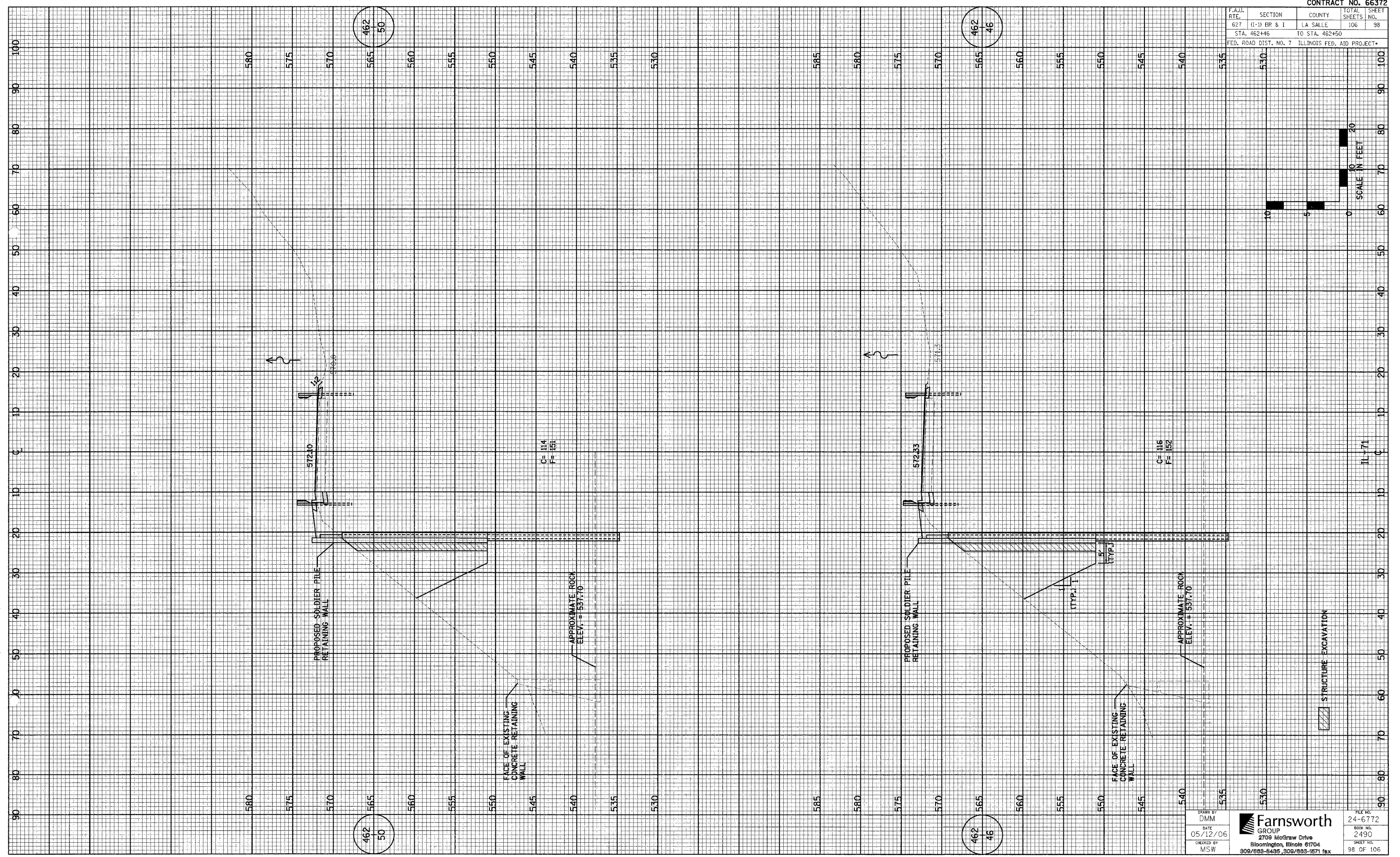


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DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth GROUP
2706 McGraw Drive
Bloomington, Illinois 61704
309/883-8435, 309/863-1671 fax

FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
97 OF 106

CONTRACT NO. 66372			
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS
627	(1-1) BR & I	LA SALLE	106
STA. 462+46		TO STA. 462+50	
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT			

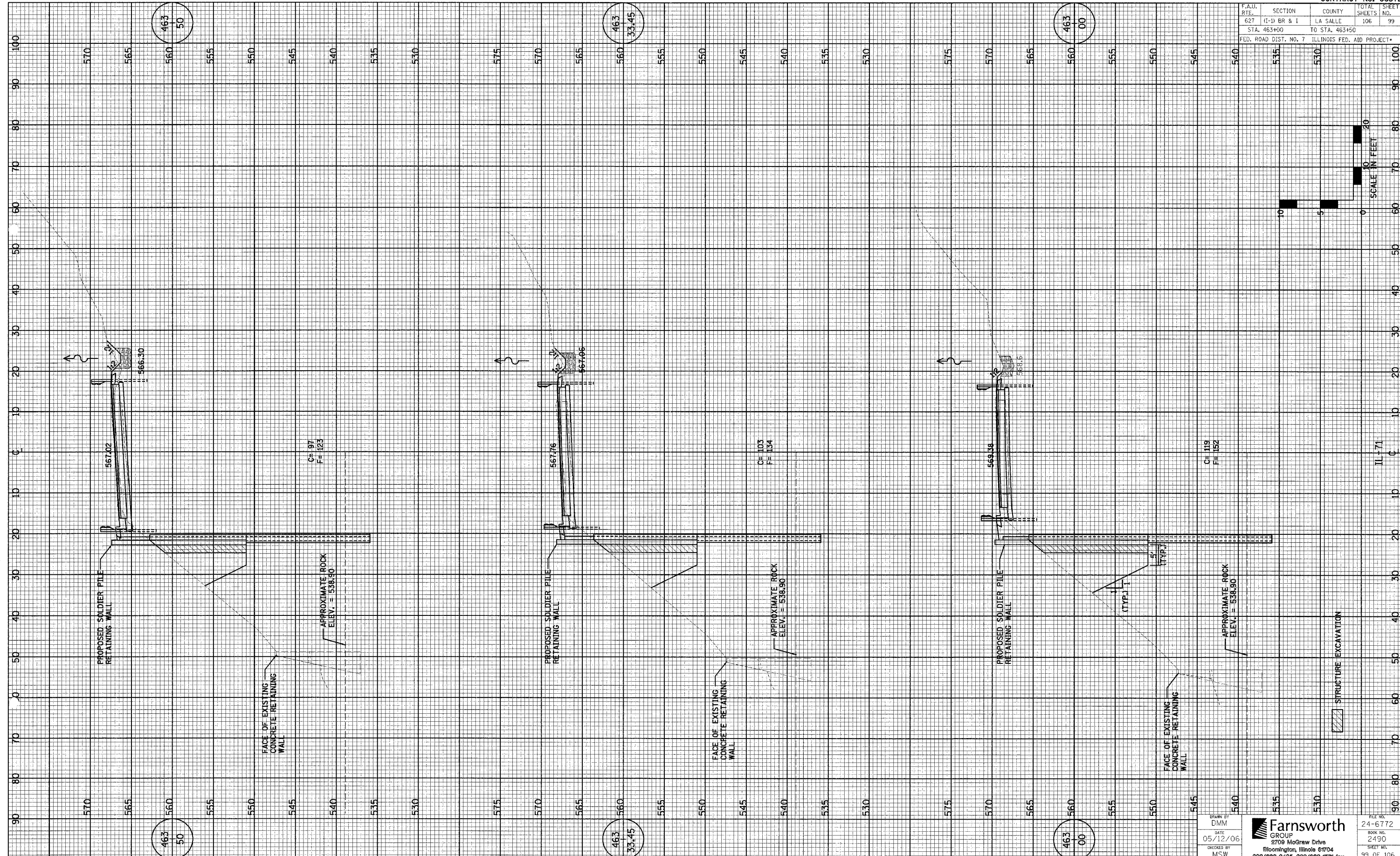


DRAWN BY DIMM DATE 05/12/06 CHECKED BY MSW	2709 McGraw Drive Bloomington, Illinois 61704 309/683-8435, 309/683-1571 fax	FILE NO. 24-6772 BSN NO. 2490 SHEET NO. 98 OF 106
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CS-2

STRUCTURE NO. 050-W004 & STRUCTURE NO. 050-0239

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	99
STA. 463+00 TO STA. 463+50		FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT		



463
50

463
33.45

463
00

463
50

463
33.45

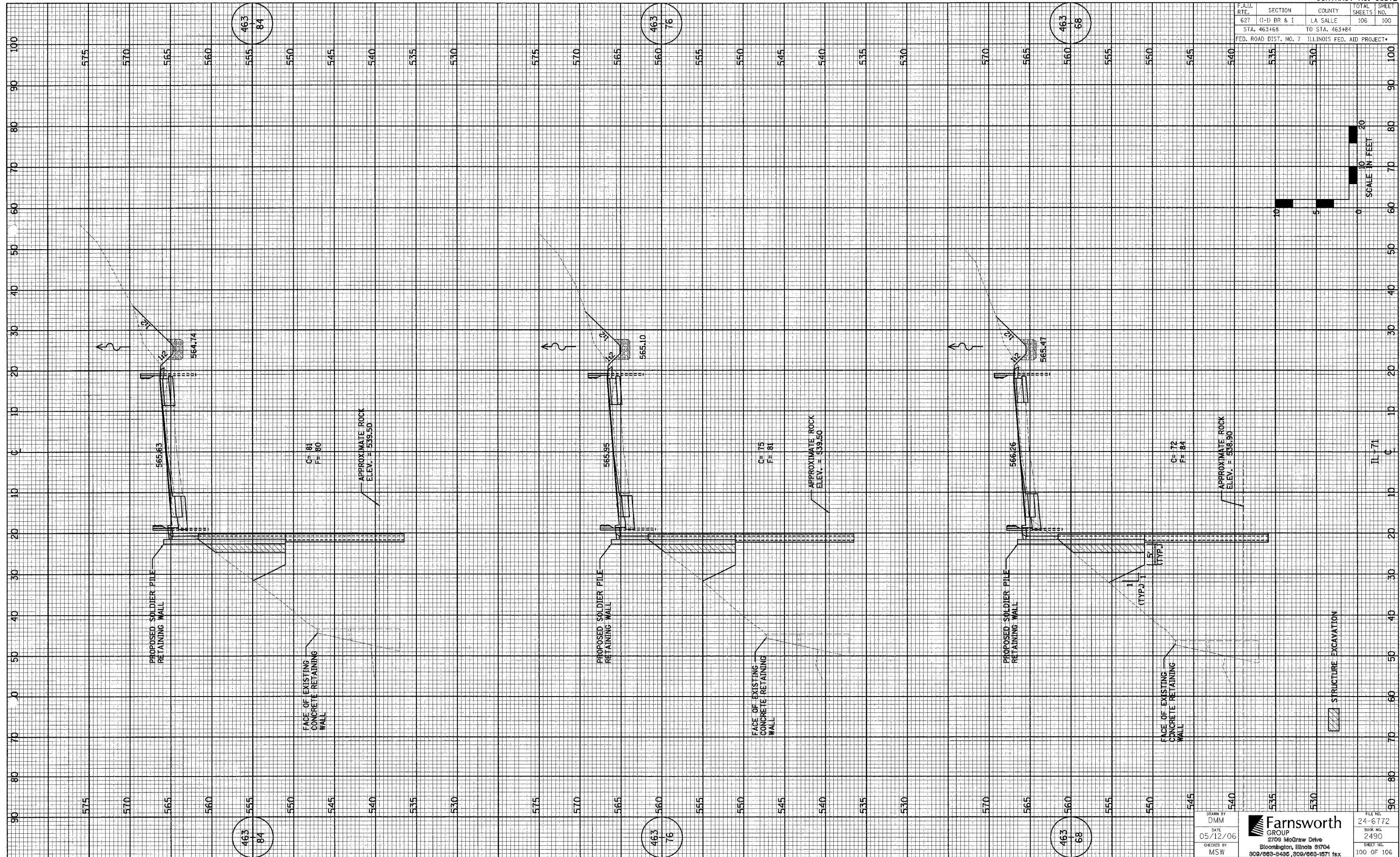
463
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DRAWN BY
DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/693-2435, 309/693-1571 Fax

FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
99 OF 106

F.A.U. RT#	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-I) BR & I	LA SALLE	106	100
STA. 463+68		TO STA. 463+84		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*				



463
84

463
76

463
68

463
84

463
76

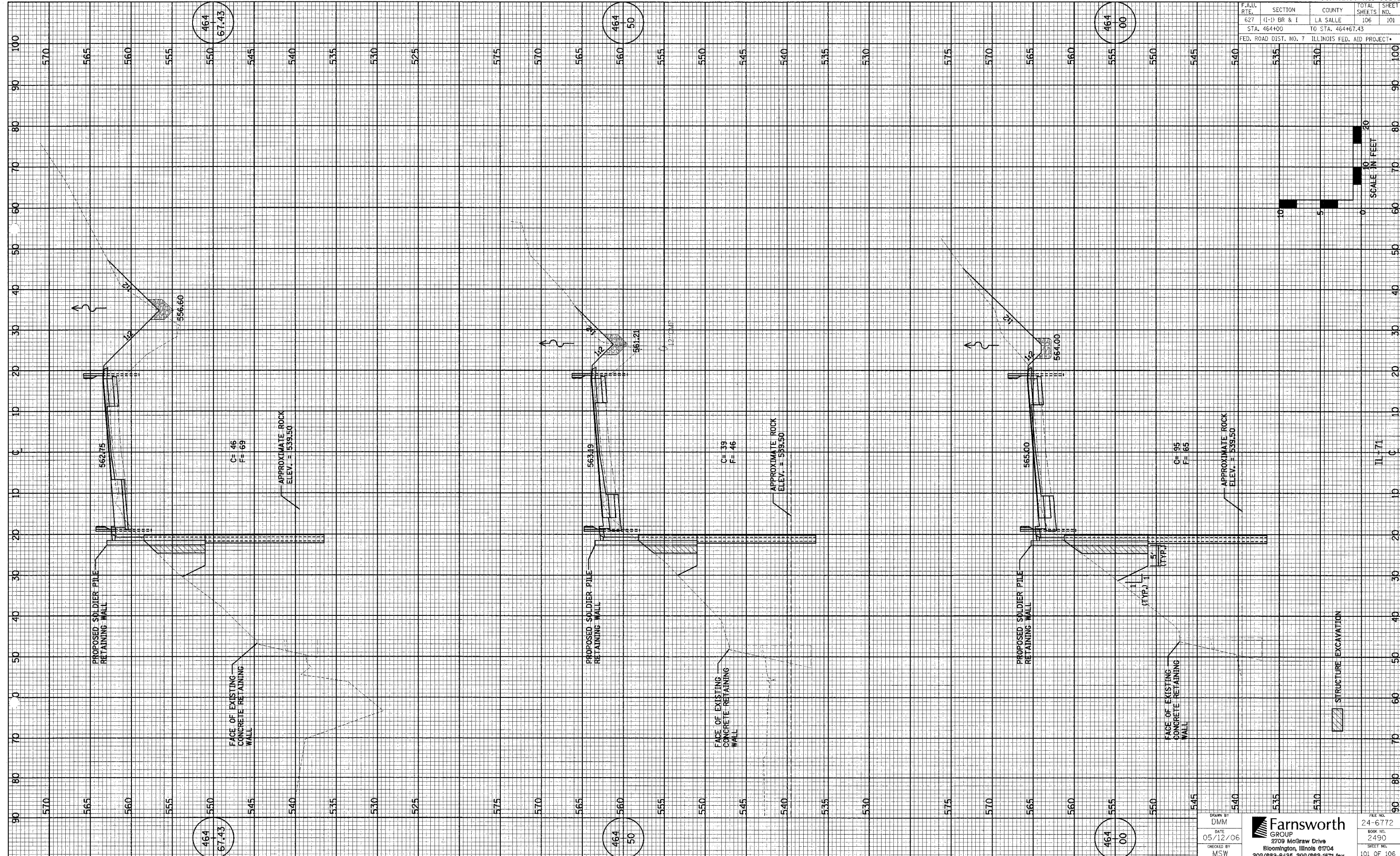
463
68

DRAWN BY
DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/883-2425 309/883-1571 fax

FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
100 OF 106

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-I) BR & I	LA SALLE	106	101
STA. 464+00		TO STA. 464+67.43		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



464
57.43

464
50

464
00

464
57.43

464
50

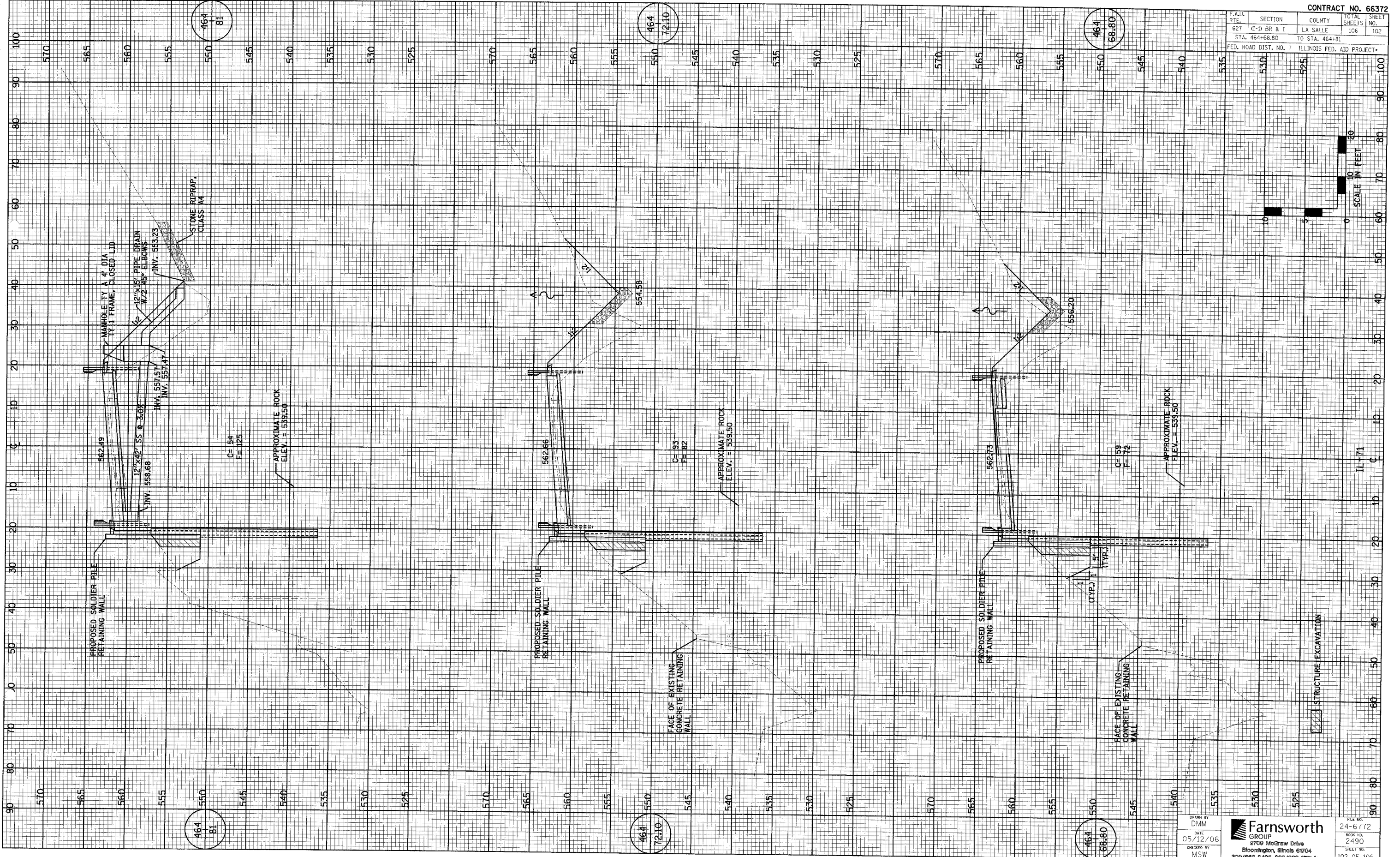
464
00

DRAWN BY: DMM
 DATE: 05/12/06
 CHECKED BY: MSW

Farnsworth GROUP
 2709 McGraw Drive
 Bloomington, Illinois 61704
 309/893-8435, 309/893-1671 fax

FILE NO: 24-6772
 856: NO: 2490
 SHEET NO: 101 OF 106

F.A.U. RTE.		SECTION		COUNTY		TOTAL SHEETS	
627	(1-D BR & I	LA SALLE		106	102	NO.	
STA. 464+68.80		TO STA. 464+81		CONTRACT NO. 66372			
FED. ROAD DIST. NO. 7				ILLINOIS FED. AID PROJECT			



464
81

464
72.10

464
68.80

464
81

464
72.10

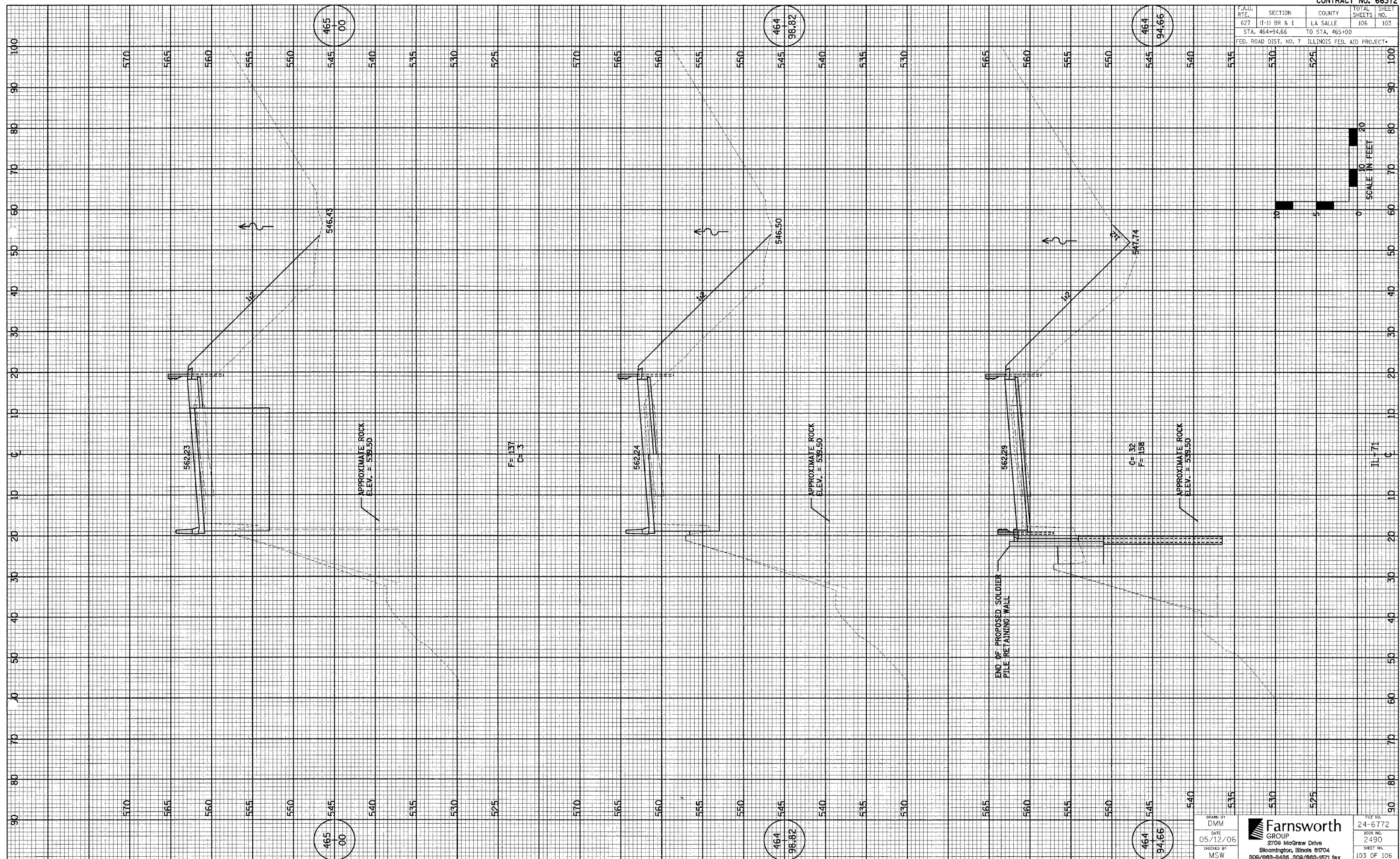
464
68.80

DRAWN BY
DMM
DATE
05/12/06
CHECKED BY
MSW

Farnsworth
GROUP
2709 McGraw Drive
Bloomington, Illinois 61704
309/883-5435, 309/883-1671 fax

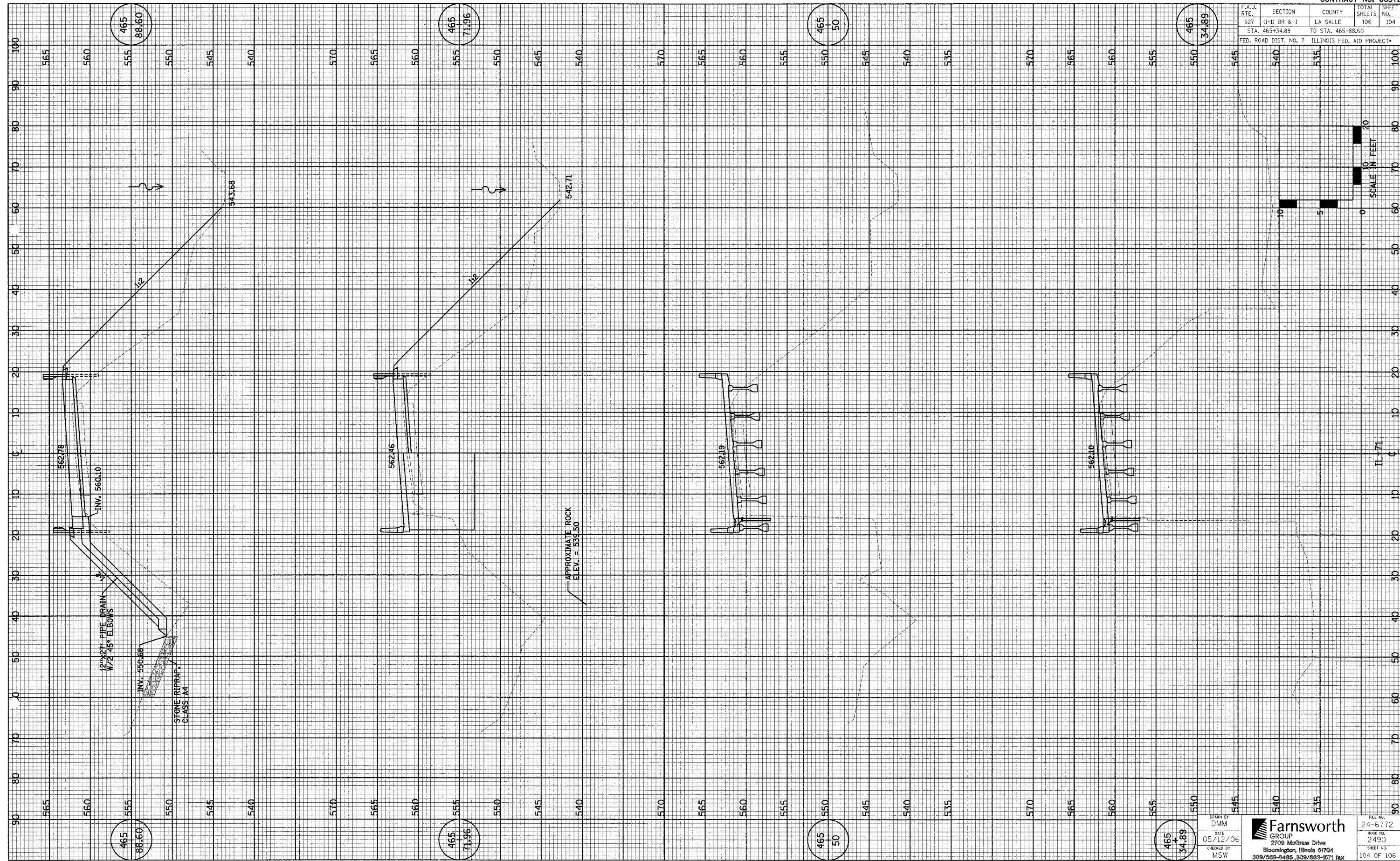
FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
102 OF 106

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	103
STA. 464+94.66		TO STA. 465+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT.				



DRAWN BY DMM DATE 05/12/06 CHECKED BY MSW	Farnsworth GROUP 2706 McGraw Drive Bloomington, Illinois 61704 309/683-9436, 309/683-1571 fax	FILE NO. 24-6772 BOOK NO. 2490 SHEET NO. 103 OF 106
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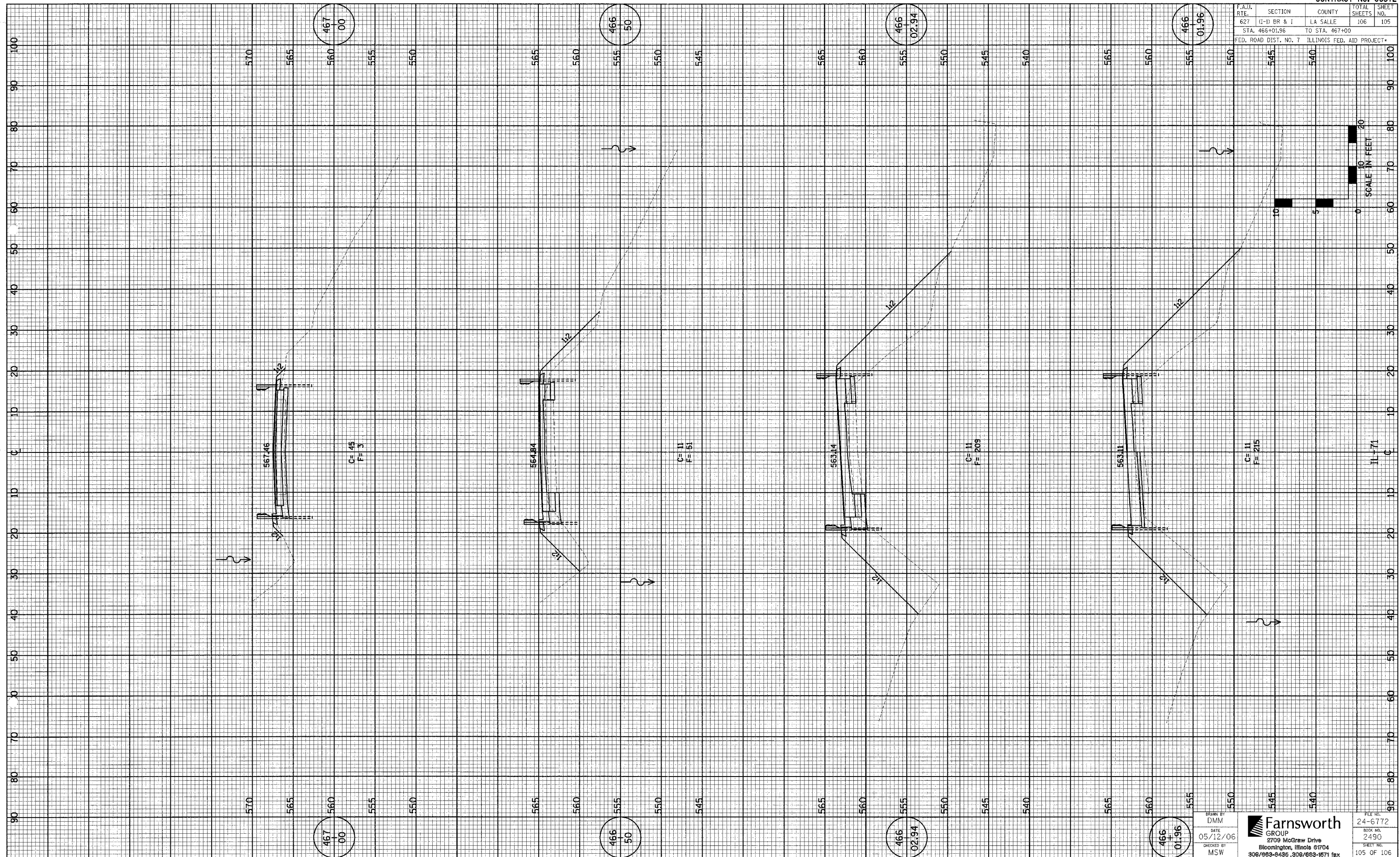
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-D) BR & I	LA SALLE	106	104
STA. 465+34.89		TO STA. 465+88.60		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT				



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FILE NO.	24-6772
BOOK NO.	2490
SHEET NO.	104 OF 106

F.A.I.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(1-1) BR & I	LA SALLE	106	105
STA. 466+01.96		TO STA. 467+00		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*				

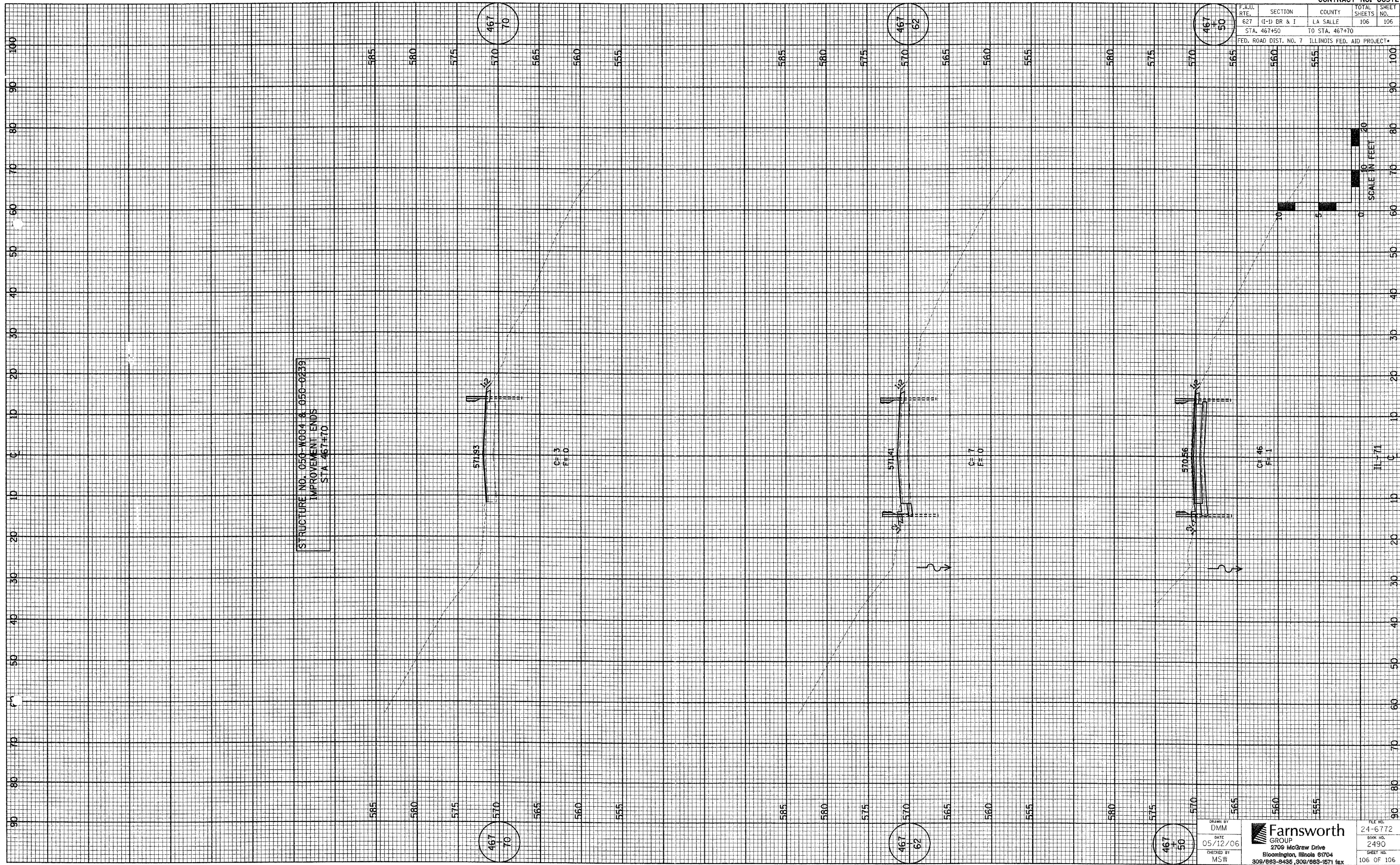


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 Bloomington, Illinois 61704
 309/663-2435, 309/663-1671 fax

FILE NO. 24-6772
 BOOK NO. 2490
 SHEET NO. 105 OF 106

F.A.J. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
627	(I-1) BR & I	LA SALLE	106	106
STA. 467+50		TO STA. 467+70		
FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PROJECT*				



STRUCTURE NO. 050-W004 & 050-0239
IMPROVEMENT ENDS
STA. 467+70

571.93

C=3
F=0

571.41

C=7
F=0

570.56

C=46
F=1

IL-71

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05/12/06
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FILE NO.
24-6772
BOOK NO.
2490
SHEET NO.
106 OF 106