

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	2
		ILLINOIS		

CONTRACT NO. 87366

SUMMARY OF QUANTITIES

NUMBER	ITEM	UNIT	QUANTITY	CONSTRUCTION TYPE CODE X020-2A
20200100	EARTH EXCAVATION	CU YD	22	
20300100	CHANNEL EXCAVATION	CU YD	122	
20700220	POROUS GRANULAR EMBANKMENT	CU YD	32	
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.05	
* 25100630	EROSION CONTROL BLANKET	SQ YD	242	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	10	
28000400	PERIMETER EROSION BARRIER	FOOT	350	
* 28100207	STONE RIPRAP, CLASS A4	TON	574	
28200200	FILTER FABRIC	SQ YD	591	
* 35101400	AGGREGATE BASE COURSE, TYPE B	TON	238	
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	87	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	39	
40603305	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30	TON	19	
44000100	PAVEMENT REMOVAL	SQ YD	224	
48203013	HOT-MIX ASPHALT SHOULDERS, 4"	SQ YD	110	
* 50100200	REMOVAL OF EXISTING STRUCTURES	L SUM	1	
50102400	CONCRETE REMOVAL	CU YD	37	
50200100	STRUCTURE EXCAVATION	CU YD	202	
50300225	CONCRETE STRUCTURES	CU YD	89.4	
50300255	CONCRETE SUPERSTRUCTURE	CU YD	215.0	
50300260	BRIDGE DECK GROOVING	SQ YD	298	
50300280	CONCRETE ENCASEMENT	CU YD	29.4	
50300300	PROTECTIVE COAT	SQ YD	418	
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	42,470	
Δ 50901050	STEEL RAILING, TYPE SM	FOOT	204	
51201600	FURNISHING STEEL PILES HP12X53	FOOT	450	
51202305	DRIVING PILES	FOOT	450	
51203600	TEST PILE STEEL HP12X53	EACH	1	
51500100	NAME PLATES	EACH	1	
52000110	PREFORMED JOINT STRIP SEAL	FOOT	70	
52100010	ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	12	
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	17	
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	148	
Δ 63000000	STEEL PLATE BEAM GUARDRAIL, TYPE A	FOOT	212.5	
Δ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	
Δ 63200310	GUARDRAIL REMOVAL	FOOT	402	
67100100	MOBILIZATION	L SUM	1	
* 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	800	
* X0325305	STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	10	
* X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1	
* X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1	
* X5121800	PERMANENT STEEL SHEET PILING	SQ FT	1963	

*SEE SPECIAL PROVISIONS
Δ SPECIALTY ITEMS

GENERAL NOTES

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 PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 0.05 ACRE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
	HMA BINDER	HMA SURFACE	HMA SURFACE
PG GRADE	PG64-22	PG58-22	PG58-22
MAX % RAP ALLOWABLE**	25%	30%	50%
DESIGN AIR VOIDS	4.0% N50	2.0% N30	2.0% N30
MIXTURE COMPOSITION	IL 19.0	IL 12.5 OR IL 9.5	IL 19.0
FRICTION AGGREGATE		MIXTURE C	
DENSITY TEST METHOD	NUCLEAR/ CORES	NUCLEAR/ CORES	NUCLEAR/ CORES

*MATERIAL SHALL BE COMPACTED TO 93.0-97.4 PERCENT OF THE MAXIMUM THEORETICAL DENSITY, EXCEPT THAT WHEN PLACED AS FIRST LIFT ON AN UNIMPROVED SUBGRADE THE MINIMUM PERCENT COMPACTON SHALL BE 92.0 PERCENT. THE MAXIMUM THEORETICAL DENSITY SHALL BE DETERMINED FROM THE MOVING AVERAGE AS SPECIFIED IN THE QC/QA SPECIFICATION.

**WHEN MORE THAN 15% RAP IS USED, A SOFTER ASPHALT BINDER (PG58-22) MAY BE REQUIRED AS DETERMINED BY THE ENGINEER.

TEMPORARY EROSION CONTROL

THE FOLLOWING QUANTITIES ARE ESTIMATE ONLY. ACTUAL QUANTITIES FOR EROSION CONTROL WILL BE DETERMINED BY THE ENGINEER IN THE FIELD AND THERE WILL BE NO ADJUSTMENT IN ANY PRICE DUE TO A CHANGE IN PLAN QUANTITY.

TEMPORARY EROSION CONTROL SEEDINGS = 10 POUND
PERIMETER EROSION BARRIER = 350 FOOT

APPLICATION RATES USED IN QUANTITY CALCULATIONS

STONE RIPRAP, CLASS A4	1.65 TON/CU YD
AGGREGATE BASE COURSE	2.05 TON/CU YD
BITUMINOUS MATERIALS (PRIME COAT)	0.35 GAL/SQ YD
HOT-MIX ASPHALT (BINDER & SURFACE COURSE)	112#/SQ YD/IN

THE ABOVE NOTED APPLICATION RATES FOR BITUMINOUS MATERIALS (PRIME COAT) ARE FOR QUANTITY CALCULATIONS ONLY. THE APPLICATION RATE TO BE APPLIED WILL BE DETERMINED BY THE ENGINEER AT THE TIME OF PLACEMENT.

PAVEMENT DESIGN

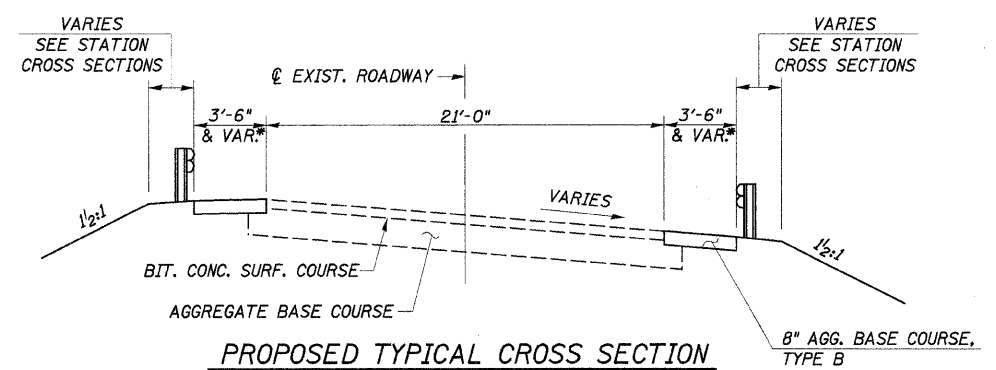
STRUCTURAL DESIGN TRAFFIC (S.D.T.) : YEAR 2018; P.V. = 2905, S.U. = 30, M.U. = 30

CLASS II ROAD

MINIMUM SOIL SUPPORT: I.B.R. = 3.0 (ASSUMED) (> 3 k.s.i.)

PERCENT OF S.D.T. IN DESIGN LANE: P = 50%, S = 50%, M = 50%
T.F. = 0.1535

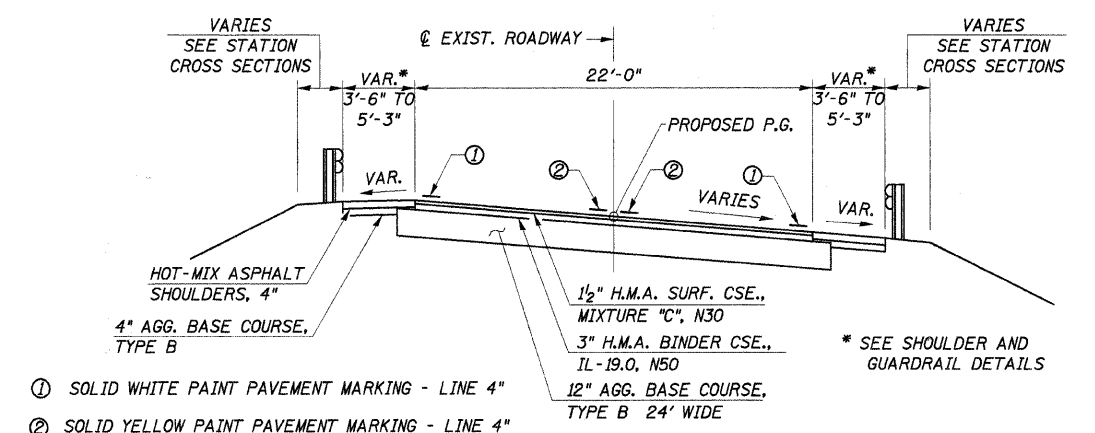
TEMP. = 73.5° F.; E_{ac} = 620; DESIGN STRAIN = 253



PROPOSED TYPICAL CROSS SECTION

LT. STA. 42+45.64 TO LT. STA. 43+00
RT. STA. 42+55.90 TO RT. STA. 43+00
LT. STA. 45+00 TO LT. STA. 45+47.05
RT. STA. 45+00 TO RT. STA. 45+47.97

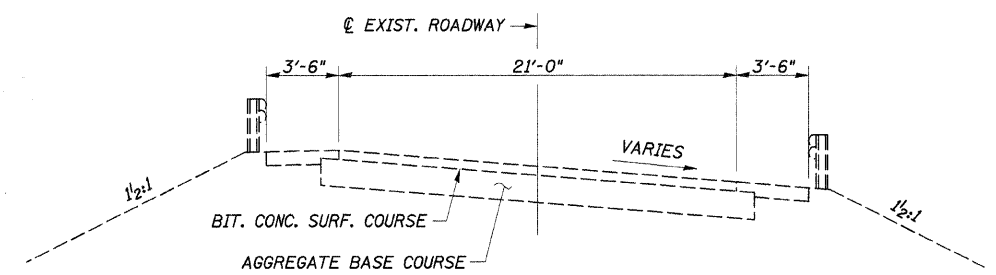
* SEE SHOULDER AND GUARDRAIL DETAILS



PROPOSED TYPICAL CROSS SECTION

STA. 43+00 TO STA. 45+00
TRANSITION FROM EXISTING S.E. STA. 43+00 TO S.E. 0.035'/' AT STRUCTURE AND FROM S.E. 0.035'/' AT STRUCTURE TO EXISTING S.E. STA. 45+00

* SEE SHOULDER AND GUARDRAIL DETAILS



EXISTING TYPICAL CROSS SECTION

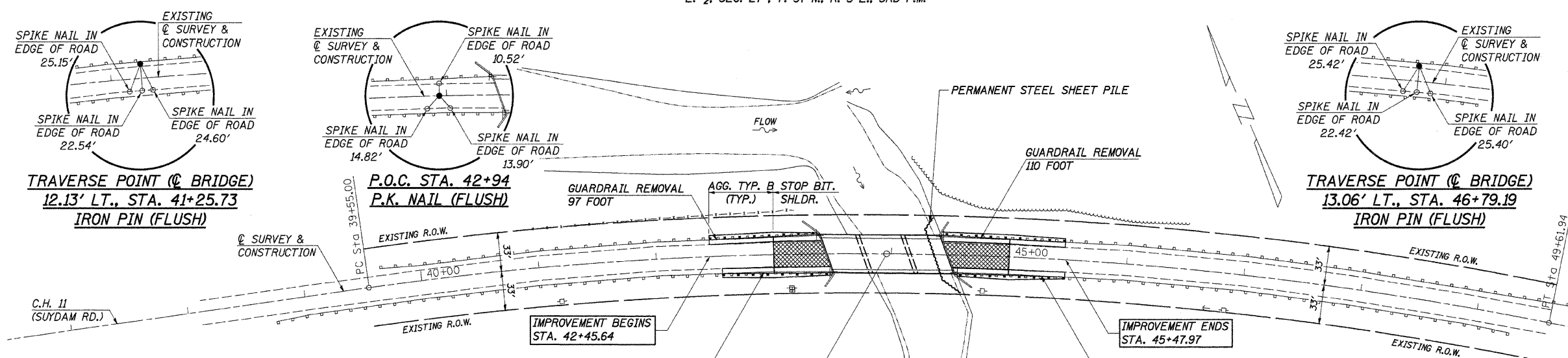
SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTION

COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS P.O. BOX 10000, SPRINGFIELD, IL 62710	DRAWN: S.A.P. DATE: 02/07/08	CHECKED: G.J.C./R.J.C. DATE: 03/04/08	JOB NO.: 47538 FILE: SUMTYP.DGN DATE: 09/02/08
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E. 1/2 SEC. 27, T. 37 N., R. 5 E., 3RD P.M.

CONTRACT NO.				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. II	06-00002-01-BR	DEKALB	20	3
STA. 37+00		TO STA. 52+00		
ILLINOIS				
CONTRACT NO. 87366				



EXISTING STRUCTURE NO. 019-3017
 STA. 43+96 - THREE SPAN CONTINUOUS R.C. SLAB BRIDGE WITH R.C. PILE BENT PIERS ON PRECAST CONCRETE PILES AND R.C. CLOSED ABUTMENTS ON STEEL H PILES; SPANS = 30'-9", 38'-6", 30'-9"; 104'-1 1/2" BK.-BK. ABUTS, 26'-6" ROADWAY, 32'-10" O.-O. DECK, SKEW 20° RT.
 REMOVAL OF EXISTING STRUCTURES = 1 L SUM

EXISTING CURVE DATA
 PI STA. = 44+63.37
 Δ = 19° 28' 00" (RT)
 D = 1° 56' 00"
 R = 2,963.70'
 T = 508.37'
 L = 1,006.94'
 E = 43.28'
 P.C. STA. = 39+55.00
 P.T. STA. = 49+61.94
 S.E. = 4.0%
 BRIDGE S.E. = 3.5%

UTILITIES

COM ED	TOM STUTZMAN	630-437-2236
COMCAST	MARTHA GIERAS	630-600-6352
VERIZON NORTH, INC.	MARY RUTH WILLIS	260-461-3222
NICOR GAS	UTILITY CONSULTANT G03W	630-388-2362
MEDIACOM	MIKE DICKERSON	630-365-0045 EX. 6008

CHANNEL EXCAVATION
 THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITHIN THE LIMITS OF THE PROPOSED STRUCTURE THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. SUITABLE EXCAVATED MATERIAL TO BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.
 CHANNEL EXCAVATION = 122 CU. YD.

STA. 43+96 - SPECIAL BRIDGE DESIGN
 3-SPAN CONTINUOUS R.C. SLAB BRIDGE ON EXISTING CLOSED R.C. ABUTMENTS AND NEW INDIVIDUALLY ENCASED PILE BENT PIERS. SPANS = 30'-9", 38'-6", 30'-9" ALONG TANGENT. 104'-1 1/2" BK.-BK. ABUTS. ALONG TANGENT. 32'-6" ROADWAY, SKEW 20° RT. S.N. 019-3017

E. 1/2 SEC. 27, T. 37 N., R. 5 E., 3RD P.M.

PLAN

DATE	BY

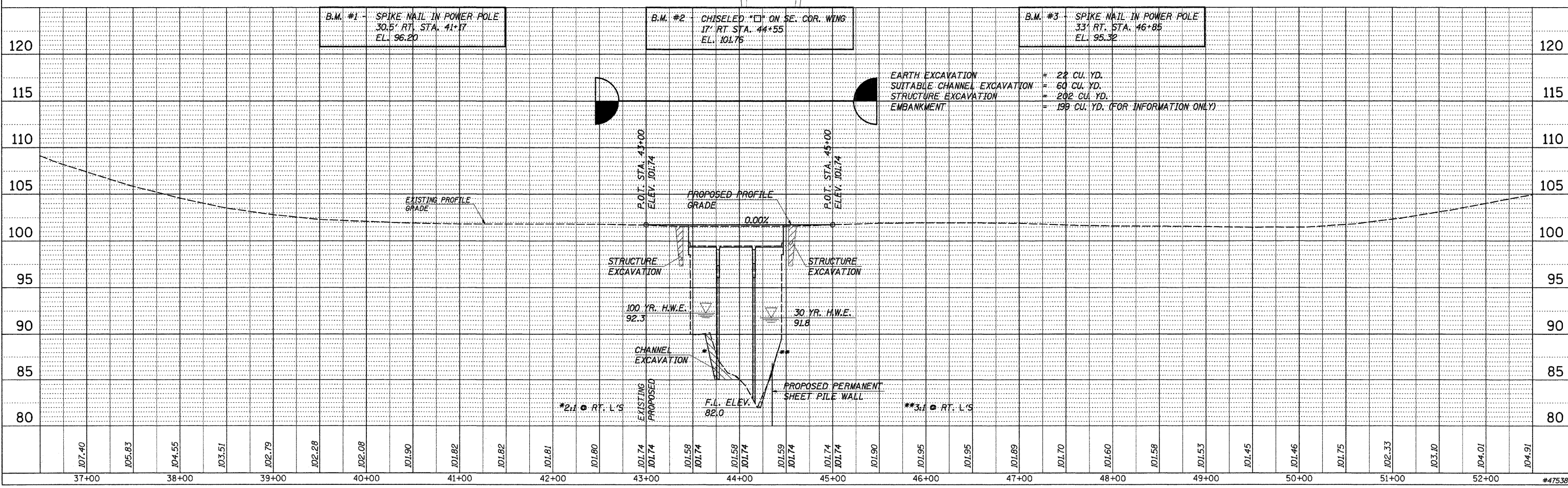
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PROFILE

DATE	BY

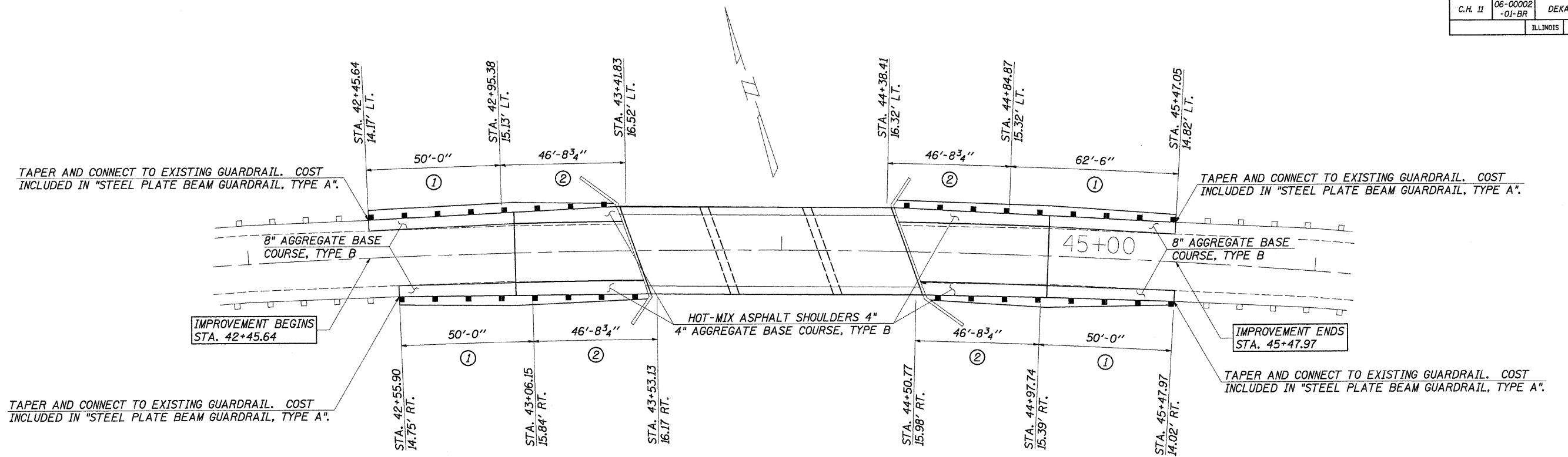
NO. 1

PLOT DATE = 01/11/08
 FILE NAME = 4753BRP.DGN
 PLOT SCALE = S. PRICE



ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	4
ILLINOIS				

CONTRACT NO. 87366



GUARDRAIL AND SHOULDER DETAIL

STEEL PLATE BEAM GUARDRAIL, TYPE A

14.17' LT. STA. 42+45.64 TO 15.13' LT. STA. 42+95.38 = 50 FOOT
 14.75' RT. STA. 42+55.90 TO 15.84' RT. STA. 43+06.15 = 50 FOOT
 15.32' LT. STA. 44+84.87 TO 14.82' LT. STA. 45+47.05 = 62.5 FOOT
 15.39' RT. STA. 44+97.74 TO 14.02' RT. STA. 45+47.97 = 50 FOOT
TOTAL = 212.5 FOOT

(SEE STD. 630001)

TRAFFIC BARRIER TERMINAL, TYPE 6A

15.13' LT. STA. 42+95.38 TO 16.52' LT. STA. 43+41.83 = 1 EACH
 15.84' RT. STA. 43+06.15 TO 16.17' RT. STA. 43+53.13 = 1 EACH
 16.32' LT. STA. 44+38.41 TO 15.32' LT. STA. 44+84.87 = 1 EACH
 15.98' RT. STA. 44+50.77 TO 15.39' RT. STA. 44+97.74 = 1 EACH
TOTAL = 4 EACH

(SEE STD. 631032)

LEGEND

- ① STEEL PLATE BEAM GUARD RAIL, TYPE A
- ② TRAFFIC BARRIER TERMINAL, TYPE 6A

ALL DIMENSIONS REFER TO THE FRONT FACE OF THE PROPOSED RAILING.

SHOULDER & GUARDRAIL DETAILS

COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

4440 ASH GROVE
 SPRINGFIELD, IL. 62711
 (217) 793-8600
 www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 FREDERICK, ILLINOIS, A. ROSSIE, ILLINOIS, W. SPRINGFIELD, ILLINOIS

DRAWN: S.A.P.
 DATE: 02/13/08

CHECKED: G.J.C.
 DATE: 03/04/08

JOB NO.: 47538
 FILE: SHLDR.DGN
 DATE: 09/02/08

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	5
		ILLINOIS		

Contract No. 87366

GENERAL NOTES

See Proposal Booklet for Boring data.

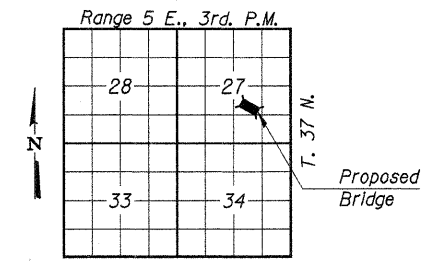
Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60 (IL Modified) See Special Provisions. All reinforcement bars shall be epoxy coated.

The Contractor shall drive one Steel HP12x53 test pile in a permanent location at Pier #2 as directed by the Engineer, before ordering the remainder of piles.

Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

Plan dimensions and details relative to existing plans are subject to routine variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished based upon the unit price bid for the work.

The vertical exposed portions of the Superstructure and all exposed portions of newly constructed abutments, wing walls and piers shall receive a rubbed finish in accordance with Article 503.15(b) of the Standard Specifications. Cost shall be included in the cost of Concrete Structures.



LOCATION PLAN

WATERWAY INFORMATION

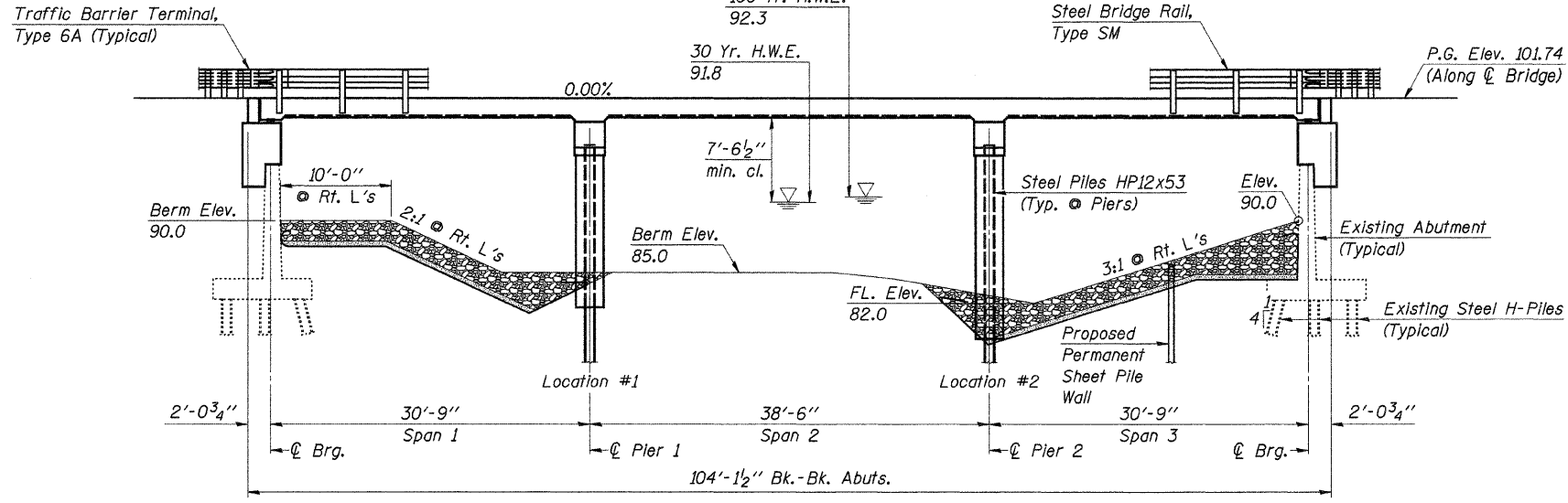
Drainage Area	41.39 Sq. Mi.
Existing Opening (30 Yr.)	468 Sq. Ft.
Required Opening (30 Yr.)	521 Sq. Ft.
Proposed Opening (30 Yr.)	521 Sq. Ft.
Design Discharge (30 Yr.)	1,925 C.F.S.
Created Head (30 Yr.)	0.0 Ft.
100 Year Discharge	2,400 C.F.S.
100 Yr. Created Head	0.0 Ft.

**SOMONAUK CREEK
BUILT 200_ BY
DEKALB COUNTY
SEC. 06-00002-01-BR
COUNTY HIGHWAY 11
STR. NO. 019-3017
LOADING HS20**

LETTERING FOR NAME PLATE
See Std. 515001

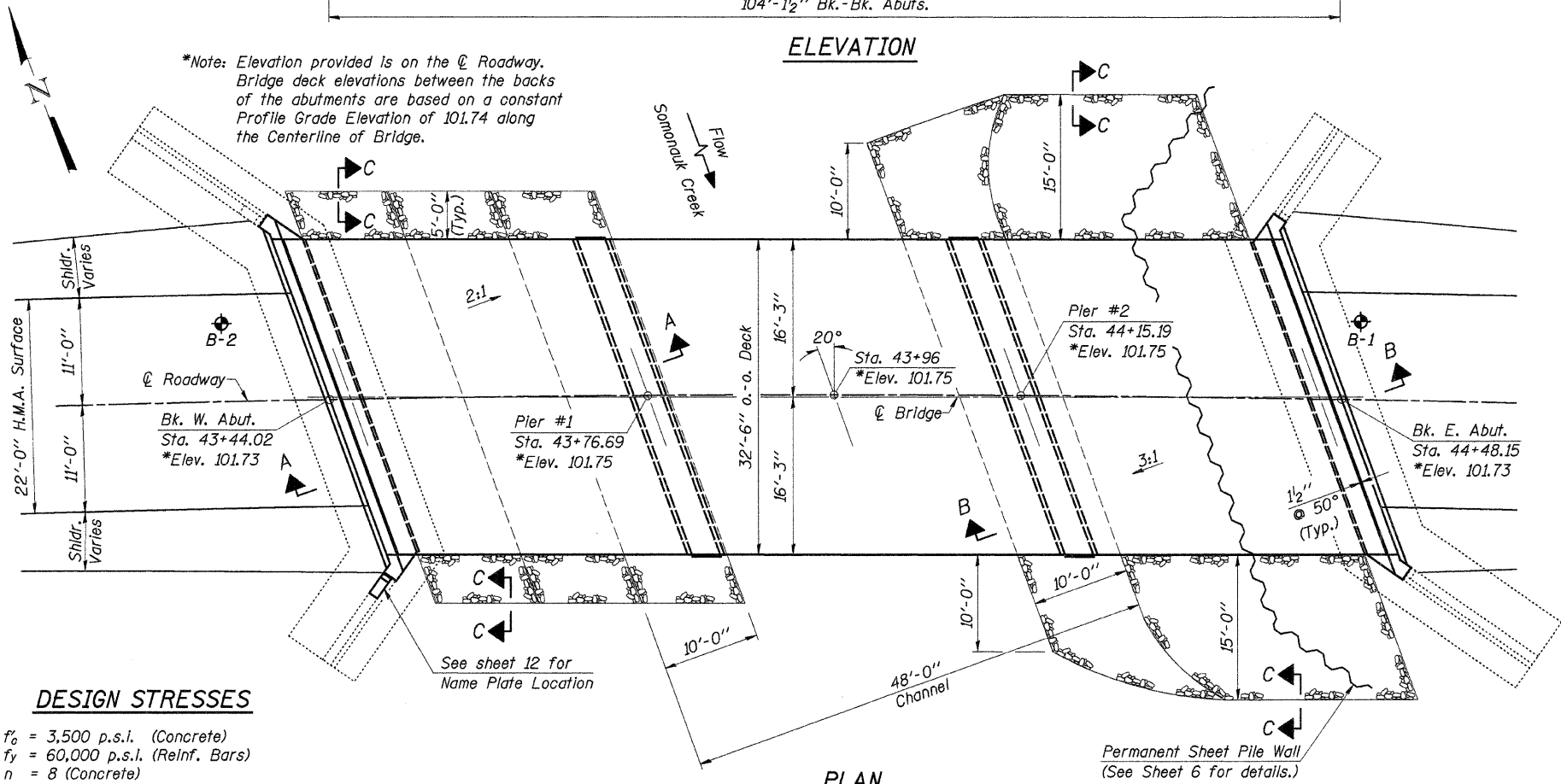
TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Bridge Deck Grooving	Sq. Yd.	298		298
Concrete Superstructure	Cu. Yd.	215.0		215.0
Concrete Structures	Cu. Yd.		89.4	89.4
Reinforcement Bars, Epoxy Coated	Pound	34,180	8,290	42,470
Steel Railing, Type SM	Foot	204		204
Name Plates	Each		1	1
Steel Piles HP12x53	Foot		450	450
Test Pile Steel HP12x53	Each		1	1
Stone Riprap, Class A4	Ton		574	574
Filter Fabric	Sq. Yd.		591	591
Concrete Encasement	Cu. Yd.		29.4	29.4
Preformed Joint Strip Seal	Foot		70	70
Elastomeric Bearing Assembly, Type 1	Each		12	12
Underwater Structure Excavation Protection - Location 1 (Pier 1)	Each		1	1
Underwater Structure Excavation Protection - Location 2 (Pier 2)	Each		1	1
Permanent Sheet Piling	Sq. Ft.		1,963	1,963
Geocomposite Wall Drain	Sq. Yd.		17	17
Porous Granular Embankment	Cu. Yd.		32	32
Protective Coat	Sq. Yd.	418		418
Structural Repair to Concrete (Depth equal to or less than 5 in.)	Sq. Ft.		10	10
Concrete Removal	Cu. Yd.		37	37
Controlled Low-Strength Material, Mix 2	Cu. Yd.		148	148
Structure Excavation	Cu. Yd.		202	202



ELEVATION

*Note: Elevation provided is on the C Roadway. Bridge deck elevations between the backs of the abutments are based on a constant Profile Grade Elevation of 101.74 along the Centerline of Bridge.

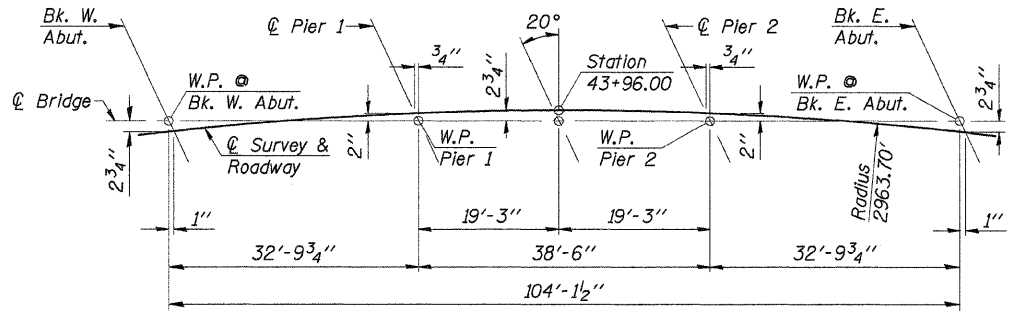


PLAN

DESIGN STRESSES

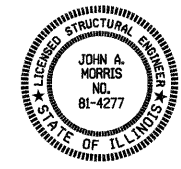
$f'_c = 3,500$ p.s.i. (Concrete)
 $f_y = 60,000$ p.s.i. (Reinf. Bars)
 $n = 8$ (Concrete)
 LOADING HS20-44
 Design Specifications: 2002 AASHTO
 50#/Sq. Ft. included in dead load for future wearing surface.

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.



OFFSET SKETCH

"I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current 'AASHTO Standard Specifications for Highway Bridges'."



John A. Morris 9-2-08
 ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/08)

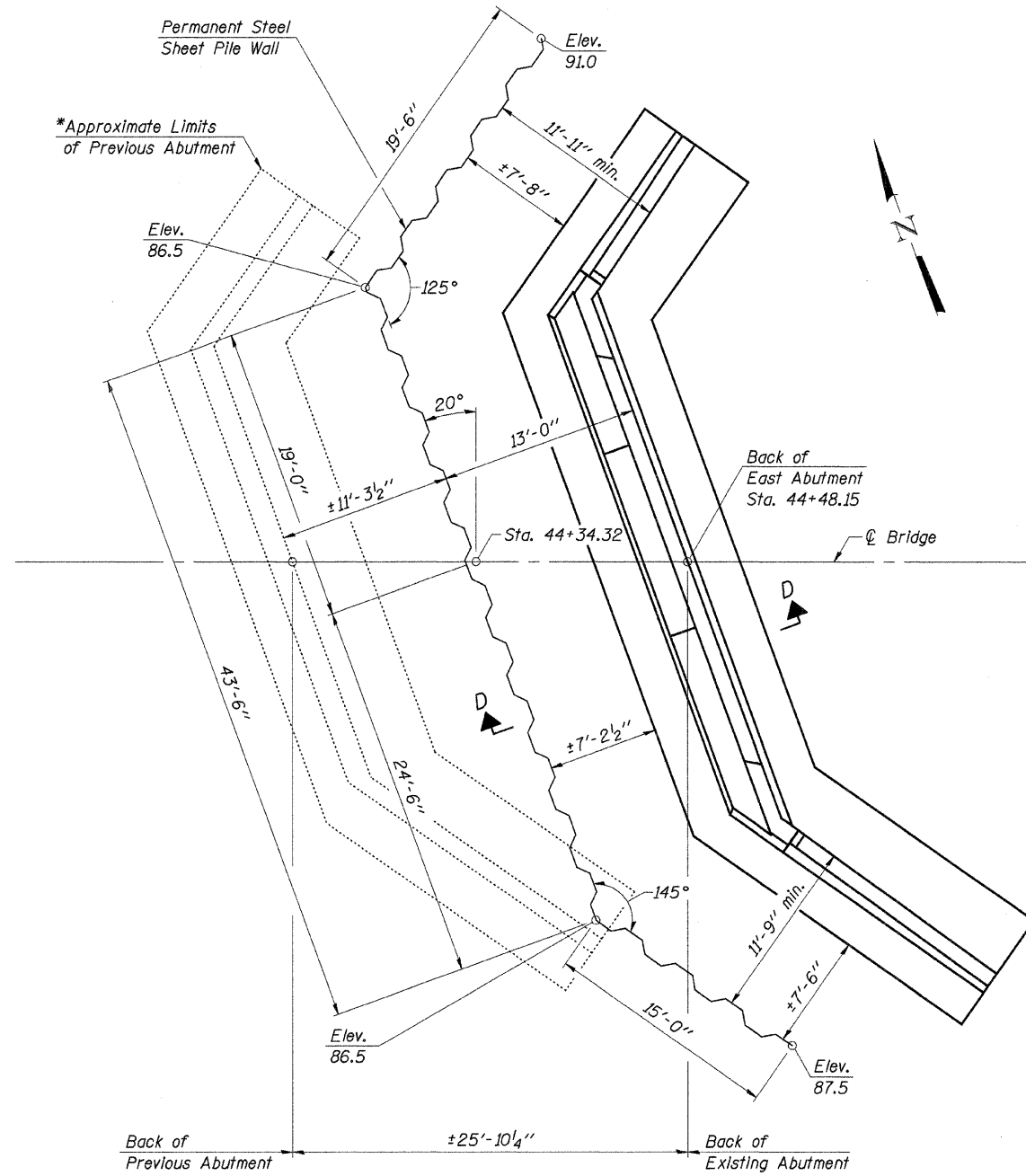
GENERAL PLAN & ELEVATION

COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.lehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS PROJECTS: A. BOONVILLE, B. BOONVILLE, C. BOONVILLE, D. BOONVILLE, E. BOONVILLE, F. BOONVILLE, G. BOONVILLE, H. BOONVILLE, I. BOONVILLE, J. BOONVILLE, K. BOONVILLE, L. BOONVILLE, M. BOONVILLE, N. BOONVILLE, O. BOONVILLE, P. BOONVILLE, Q. BOONVILLE, R. BOONVILLE, S. BOONVILLE, T. BOONVILLE, U. BOONVILLE, V. BOONVILLE, W. BOONVILLE, X. BOONVILLE, Y. BOONVILLE, Z. BOONVILLE	JOB NO.: 47538 FILE: GPE.DGN DATE: 09/02/08
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	6
ILLINOIS				

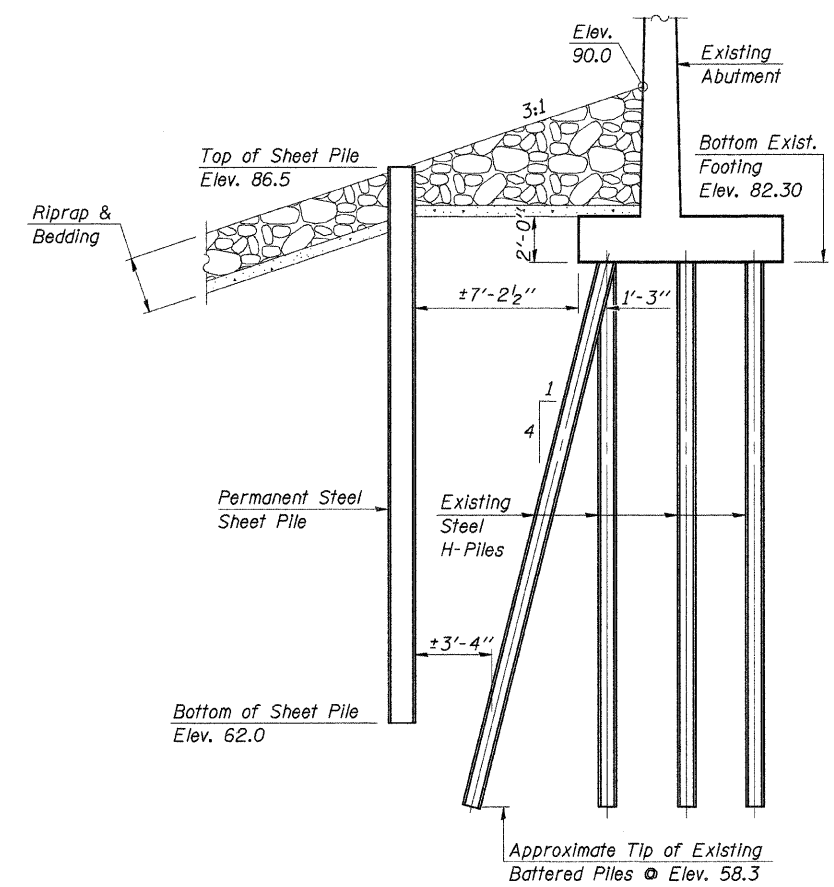
Contract No. 87366



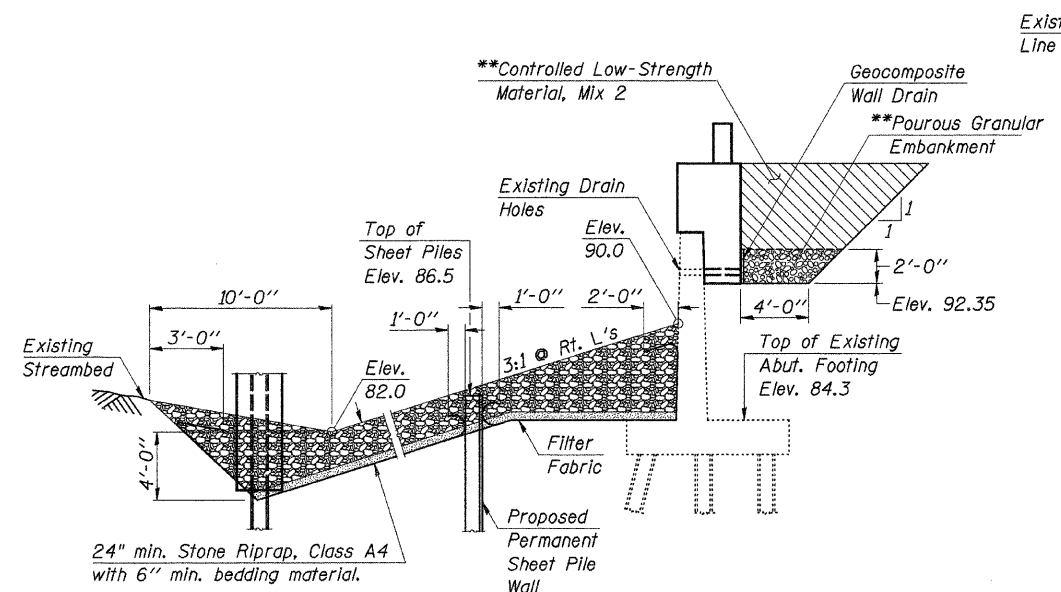
PERMANENT STEEL SHEET PILE LOCATION PLAN
 Minimum Required Effective Section Modulus = 13.9 cu. in./ft.
 (See Proposal for Effective Section Modulus associated with available sheet pile sections.)

*Note: Remnants of a previous abutment may be encountered during the driving of permanent steel sheet piling. If encountered, portions of the previous abutment interfering with the driving of sheet piling shall be removed, and the cost of removing the interfering portions of the abutment shall be included in the cost of Permanent Steel Sheet Piling.

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

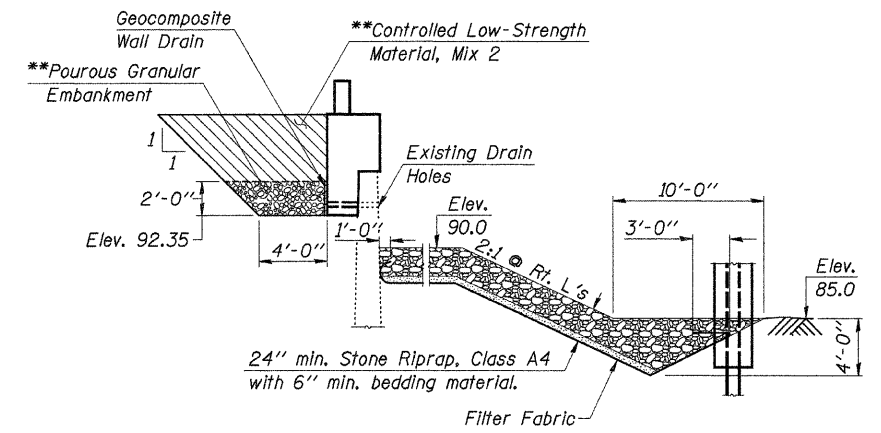


SEC. D-D



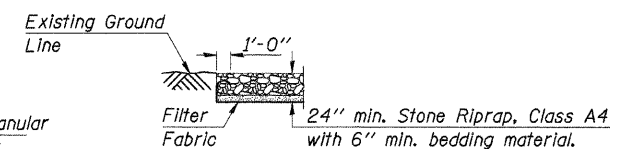
SECTION B-B

Note: The excavation and aggregate bedding shall be included in the cost of Stone Riprap, Class A4.



SECTION A-A

**Note: Excavation required for the placement of Porous Granular Embankment and Controlled Low Strength Material is included in the cost of Structure Excavation.



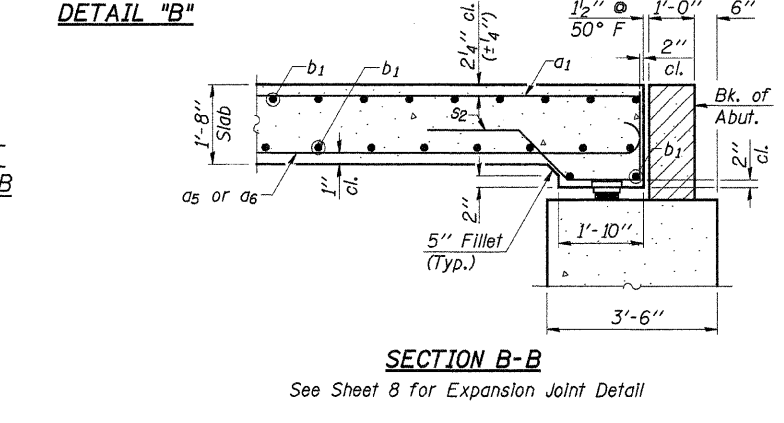
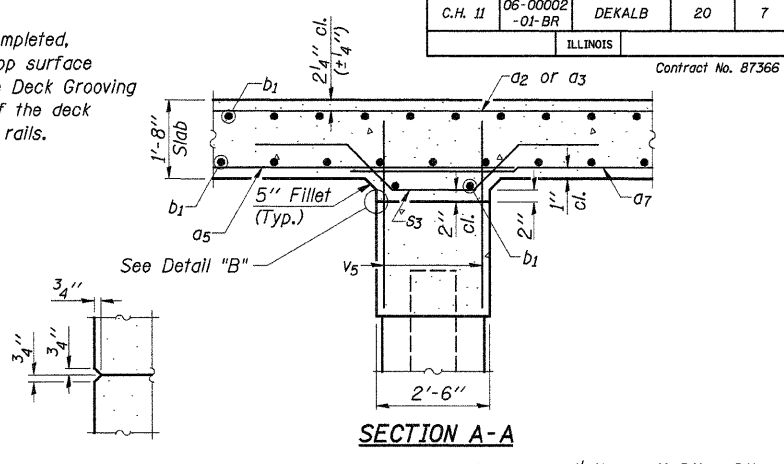
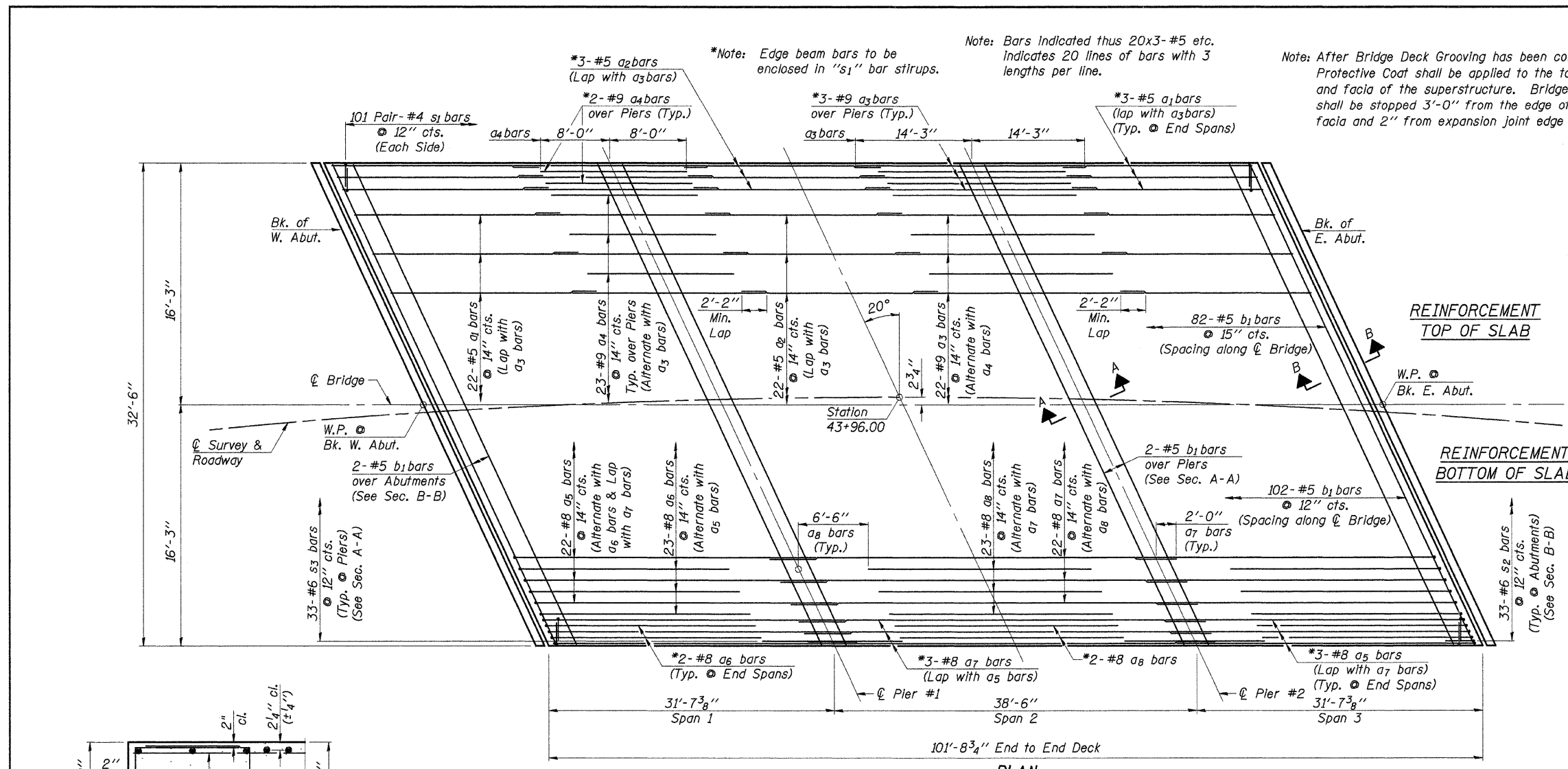
SECTION C-C

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Permanent Steel Sheet Piling	Sq. Ft.	1,963
Geocomposite Wall Drain	Sq. Yd.	17
Porous Granular Embankment	Cu. Yd.	32
Stone Riprap, Class A4	Ton	574
Filter Fabric	Sq. Yd.	591
Controlled Low-Strength Material, Mix 2	Cu. Yd.	148

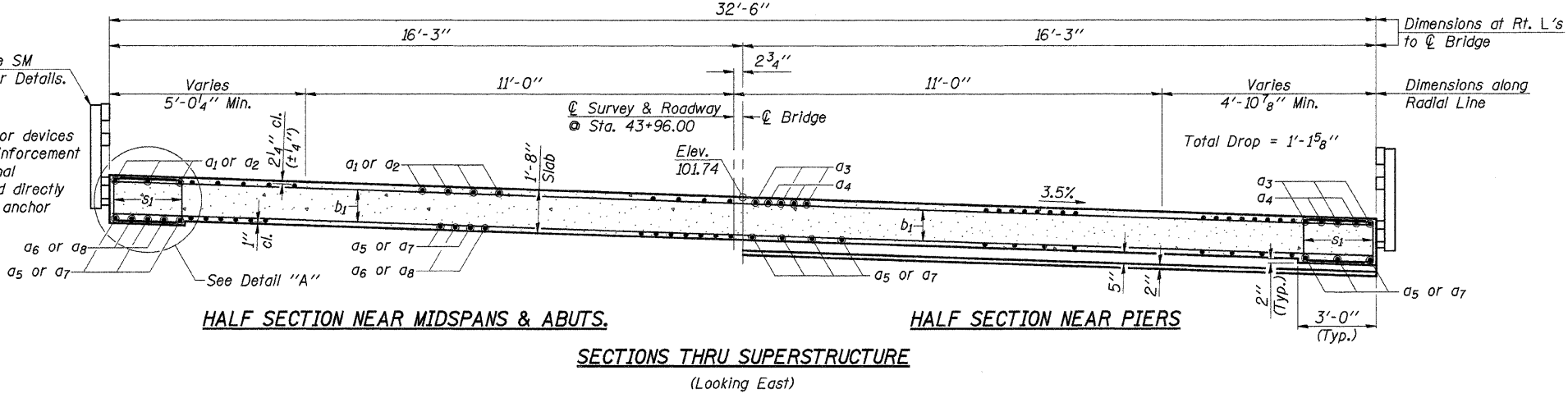
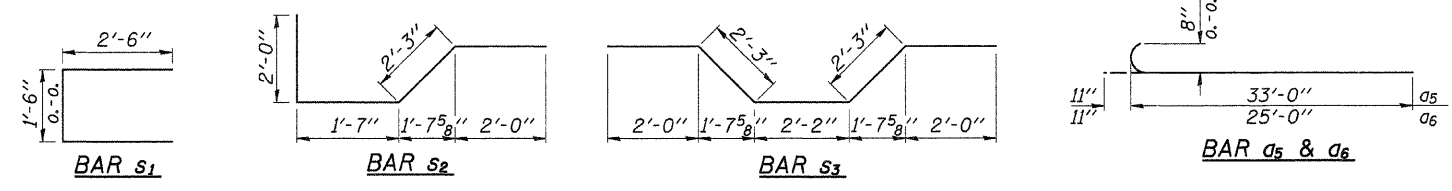
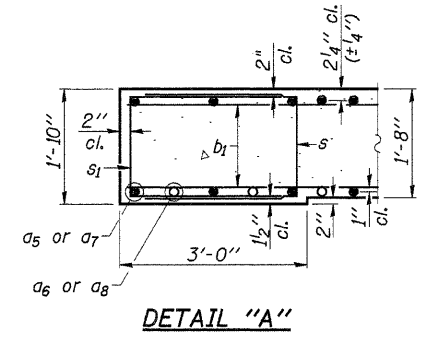
PERMANENT STEEL SHEET PILING AND RIPRAP DETAILS
 COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	7
ILLINOIS		Contract No. 87366		



SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a1	56	#5	19'-6"	—
a2	28	#5	14'-6"	—
a3	56	#9	28'-6"	—
a4	54	#9	16'-0"	—
a5	56	#8	33'-11"	—
a6	54	#8	25'-11"	—
a7	28	#8	42'-6"	—
a8	27	#8	25'-6"	—
b1	192	#5	34'-2"	—
s1	404	#4	6'-6"	—
s2	66	#6	7'-10"	—
s3	66	#6	10'-8"	—
Reinforcement Bars, Epoxy Coated			Pound	34,180
Concrete Superstructure			Cu. Yd.	215.0



**Note: The studs for the rail post anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

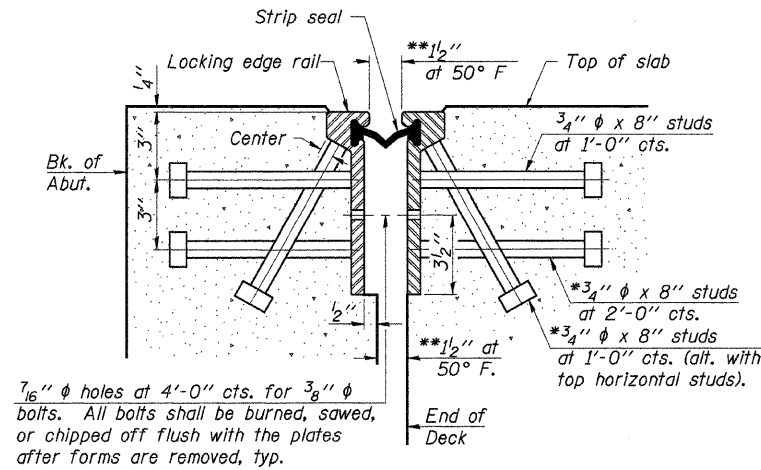
DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

SUPERSTRUCTURE
COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

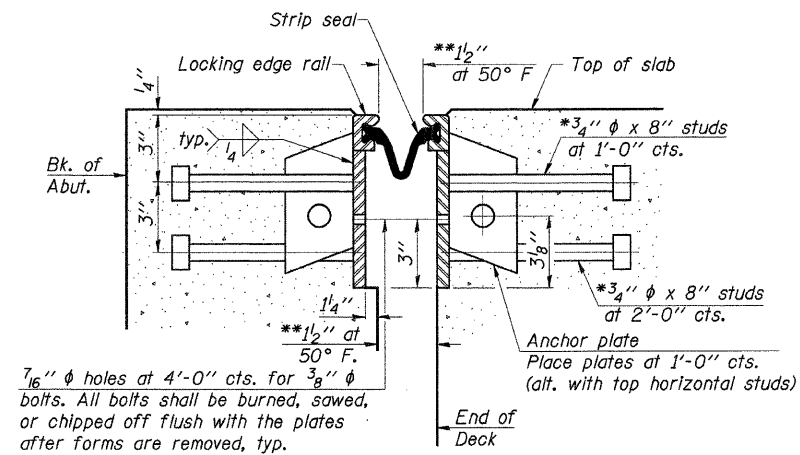
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	8
ILLINOIS				

Contract No. 87366

*Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



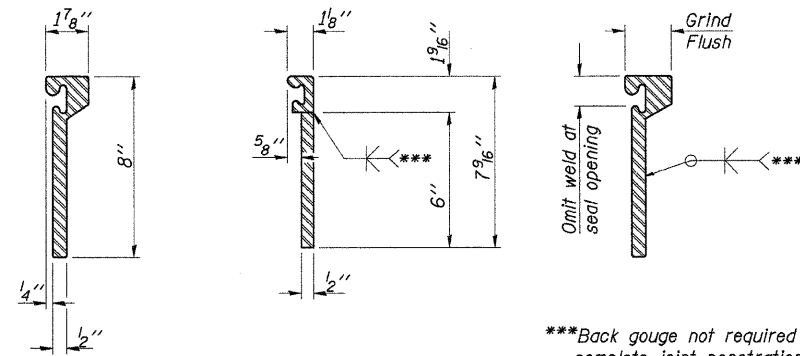
SECTION THRU ROLLED RAIL JOINT
(At Rt. L's to Abut.)



SECTION THRU WELDED RAIL JOINT
(At Rt. L's to Abut.)

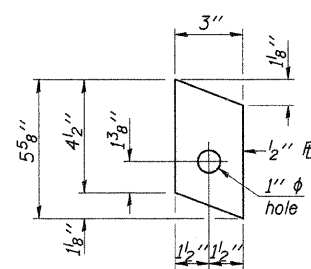
Notes:
The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the Locking Edge Rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches. The height and thickness of the Locking Edge Rails shown are minimum dimensions. The actual configuration of the Locking Edge Rails and matching strip seal may vary from manufacturer to manufacturer. Flanged edge rails will not be allowed. Locking Edge Rails may be spliced at slope discontinuities and stage construction joints. The manufacturer's recommended installation methods shall be followed. All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

****Joint Opening:** The components of the joint system shall be properly aligned and set prior to casting them into the deck or abutment. The joint opening shall be adjusted according to the temperature at the time of placing so that the specified opening will be secured at a temperature of 50° F. The opening shall be reduced 1/16 in. from the amount specified, for each 15° F the temperature at the time of placing exceeds 50° F and increased 1/16 in. from the amount specified, for each 15° F the temperature at the time of placing is below 50° F.



ROLED (EXTRUDED) RAIL **WELDED RAIL**

LOCKING EDGE RAIL SPLICE
The inside of the locking edge rail groove shall be free of weld residue.



ANCHOR PLATE
(for welded rail)

LOCKING EDGE RAILS

BILL OF MATERIAL

Item	Unit	Total
Preformed Joint Strip Seal	Foot	70

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

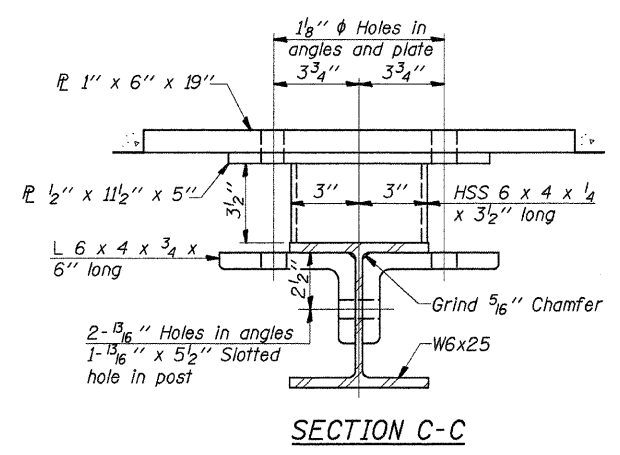
EXPANSION JOINT DETAILS

COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

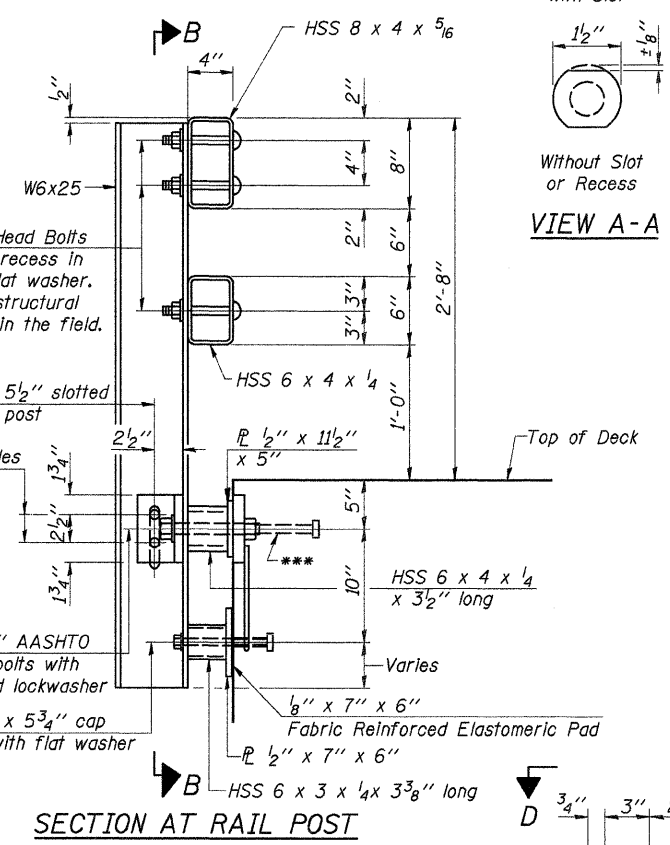
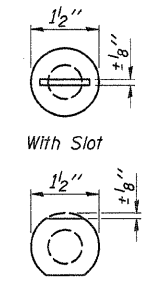
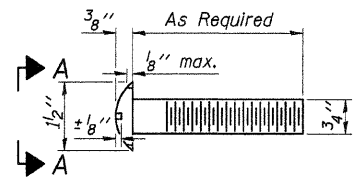
4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8600
www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PROFESSOR S. WOODRUFF, P.E. SCOTT L. BOYD, P.E. SPRINGFIELD, IL

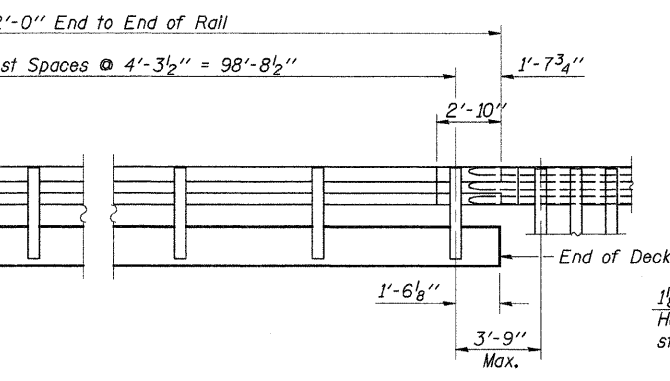
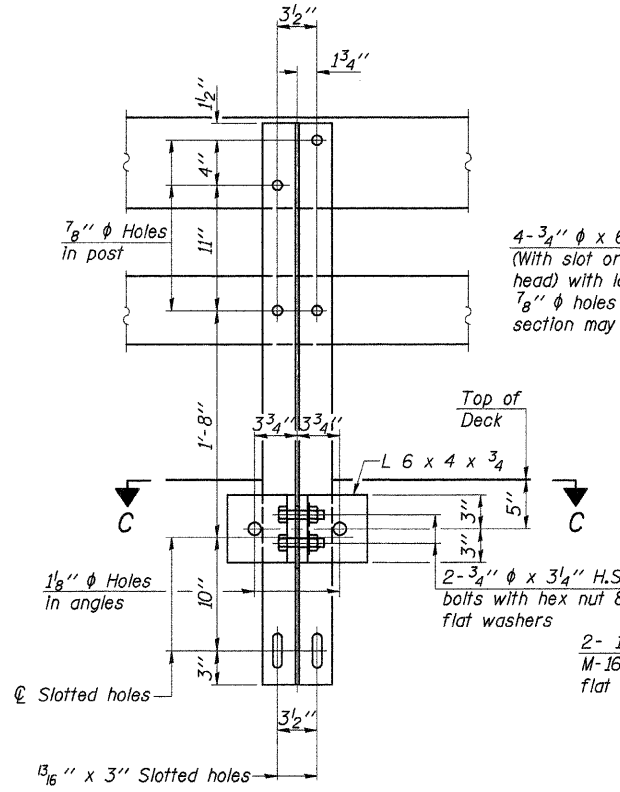
JOB NO.: 47538
FILE: EXP_JOINT.DGN
DATE: 09/02/08



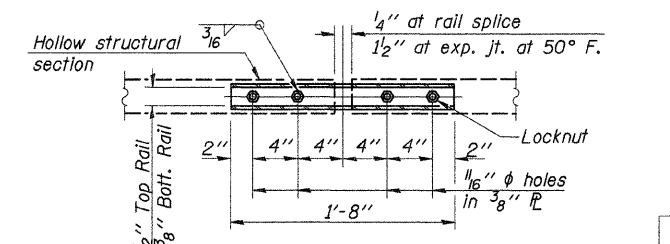
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



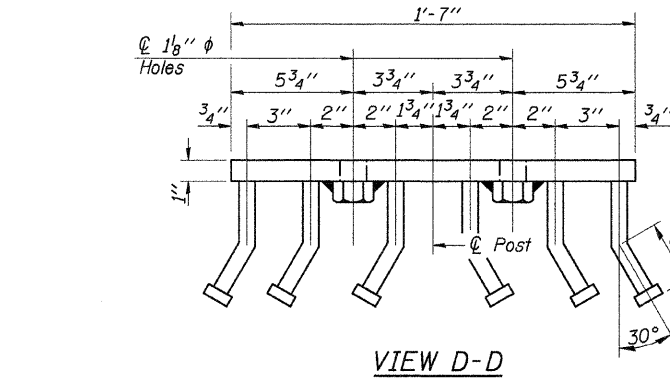
SECTION B-B



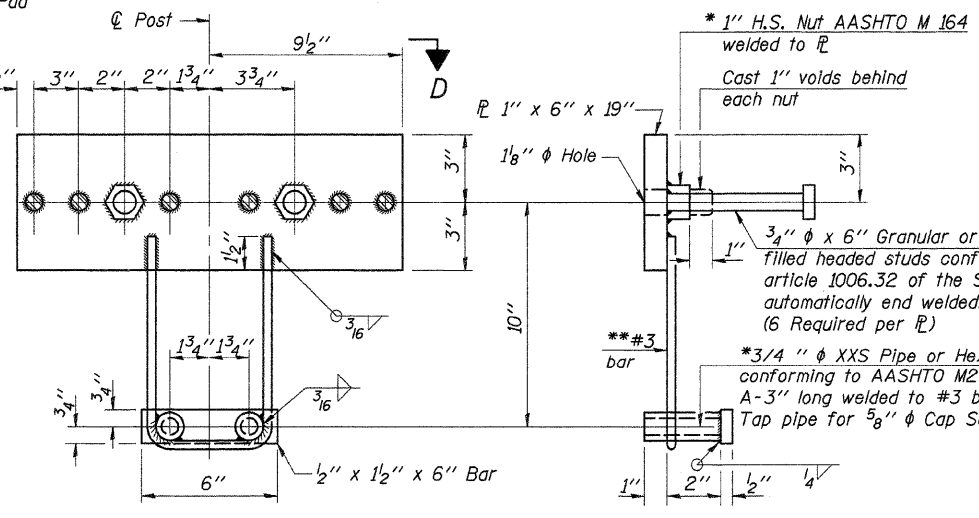
ELEVATION



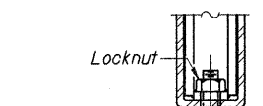
PLAN-BOTT. SPLICE P TYPICAL



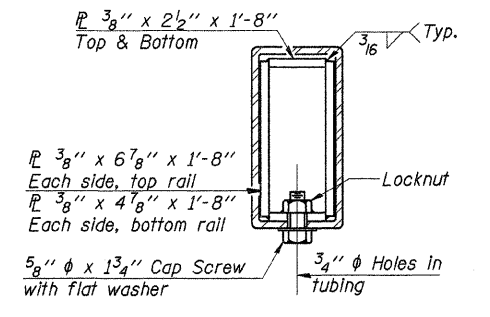
VIEW D-D



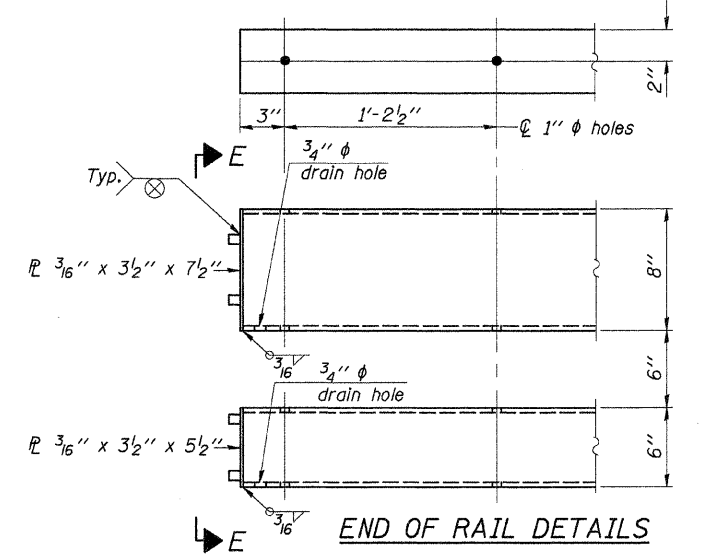
ANCHOR DEVICE



RAIL SPLICE CONNECTION AT EXPANSION JT.



SECTION AT RAIL SPLICE



END OF RAIL DETAILS

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type SM.
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 ***The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

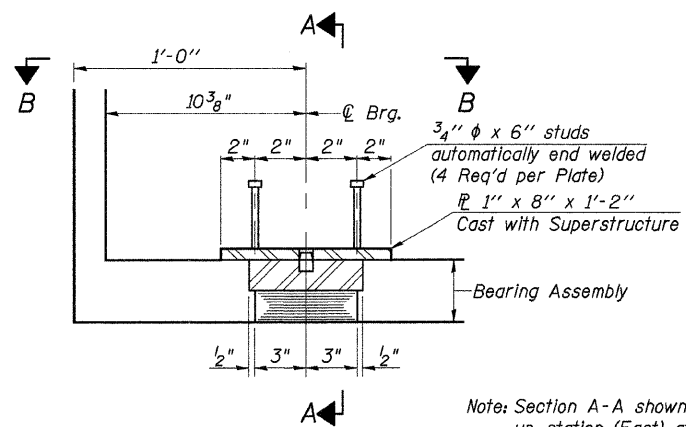
Item	Unit	Quantity
Steel Railing, Type SM	Foot	204

STEEL RAILING, TYPE SM

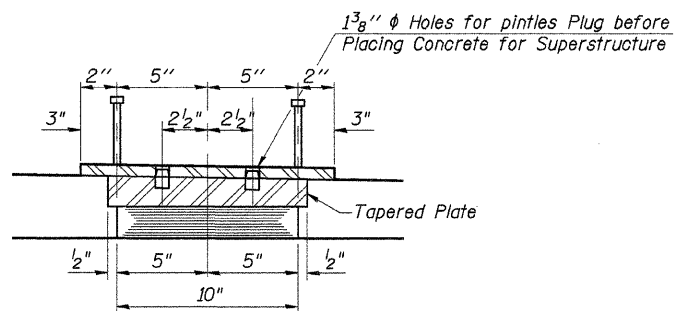
COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	10
ILLINOIS		Contract No. 87366		

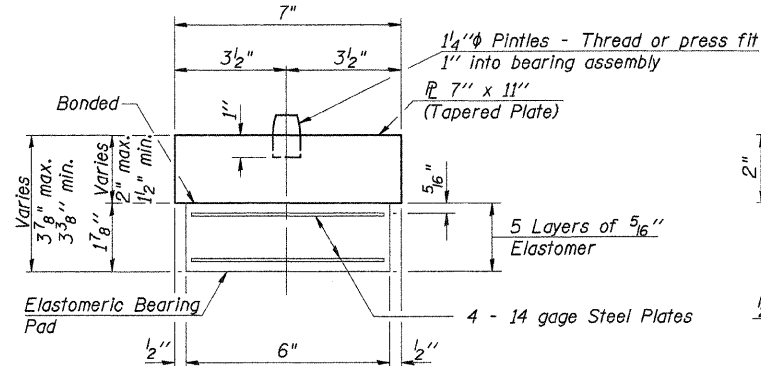


SECTION AT ABUT.
(Dimensions shown Parallel to Center Line of Bridge.)

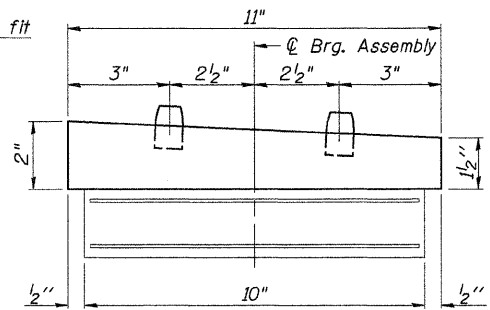


Note: Section A-A shown looking up-station (East) at East Abutment Bearing.

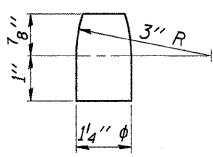
TYPE I ELASTOMERIC EXP. BRG.



END VIEW

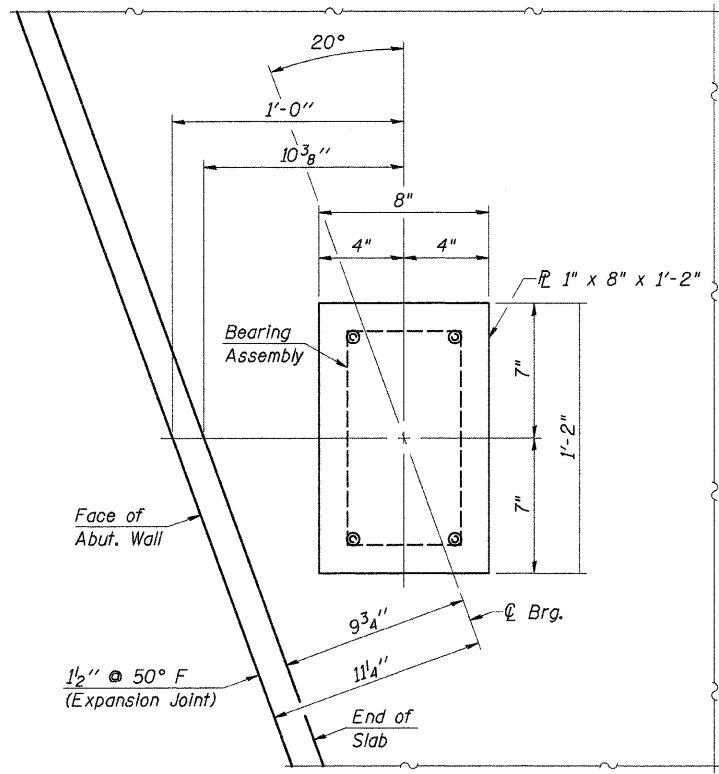


FRONT VIEW

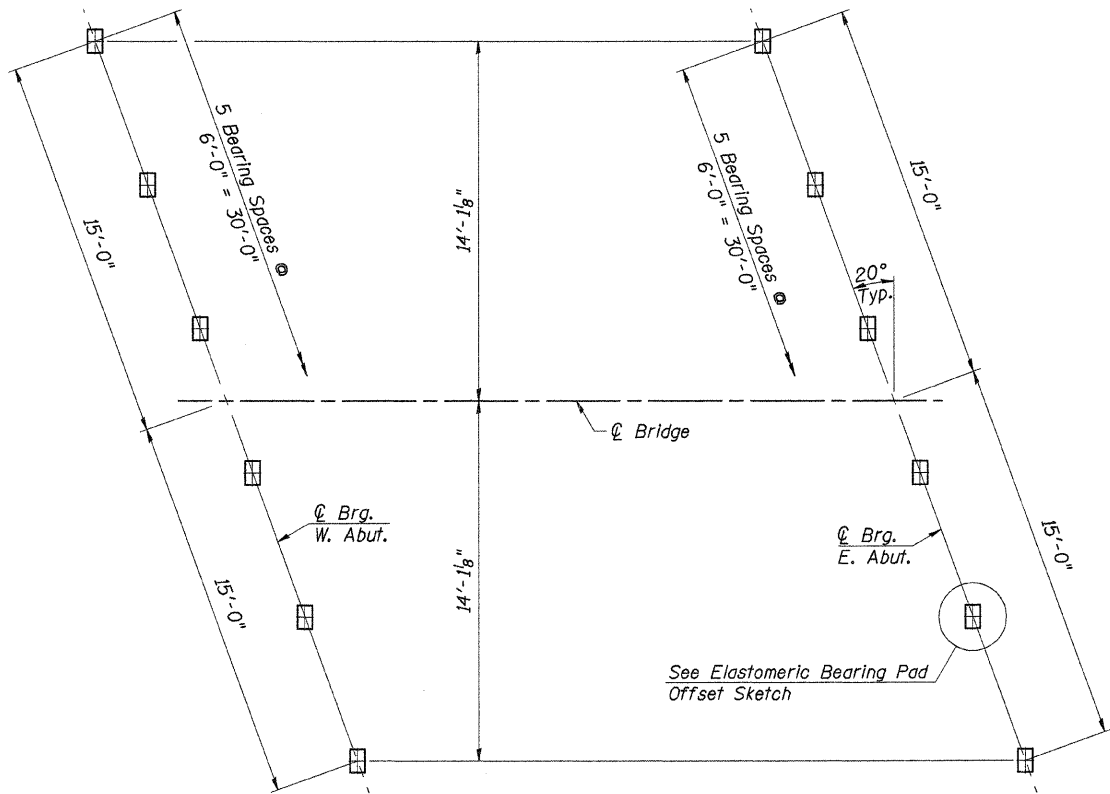


PINTLE

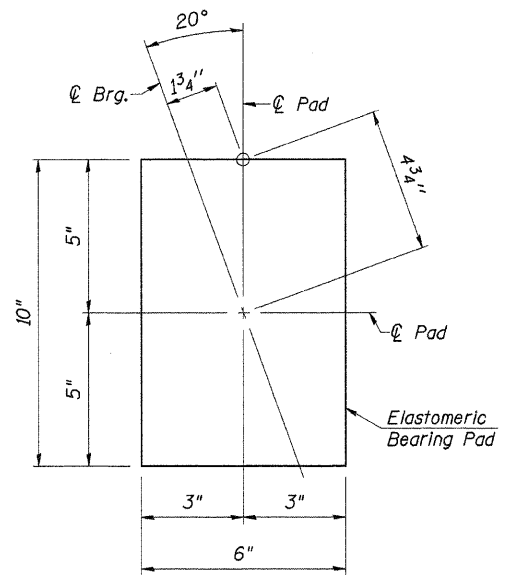
BEARING ASSEMBLY



VIEW B-B



ELASTOMERIC BEARING PAD PLACEMENT PLAN



ELASTOMERIC BEARING PAD OFFSET SKETCH

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly, Type I	Each	12

ELASTOMERIC BEARING DETAILS

COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

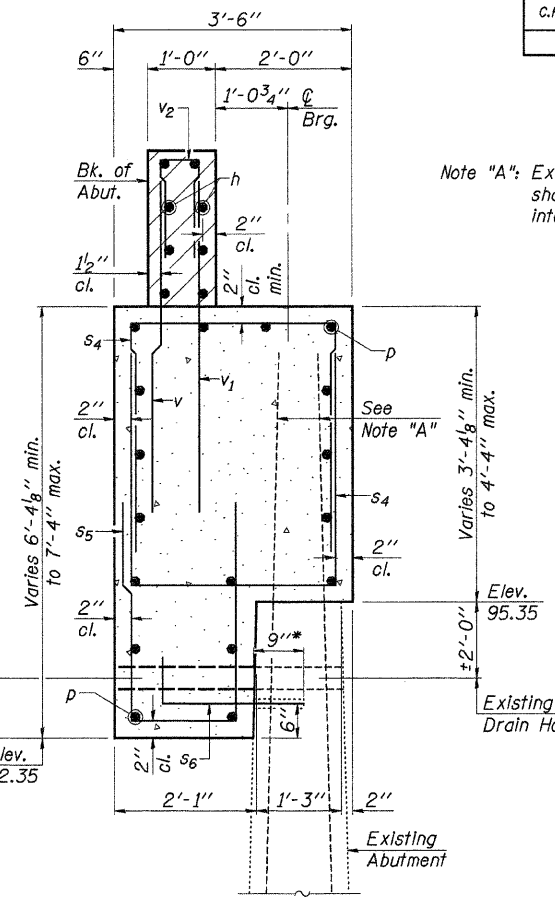
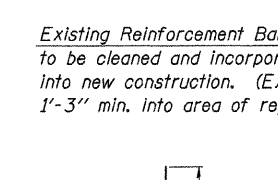
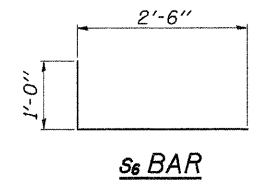
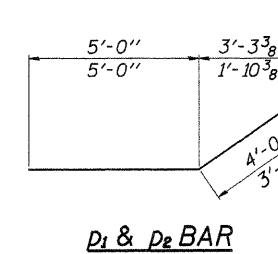
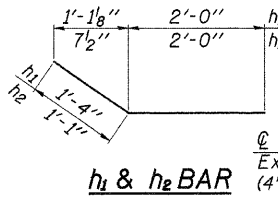
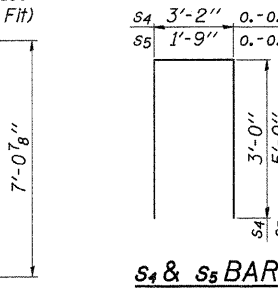
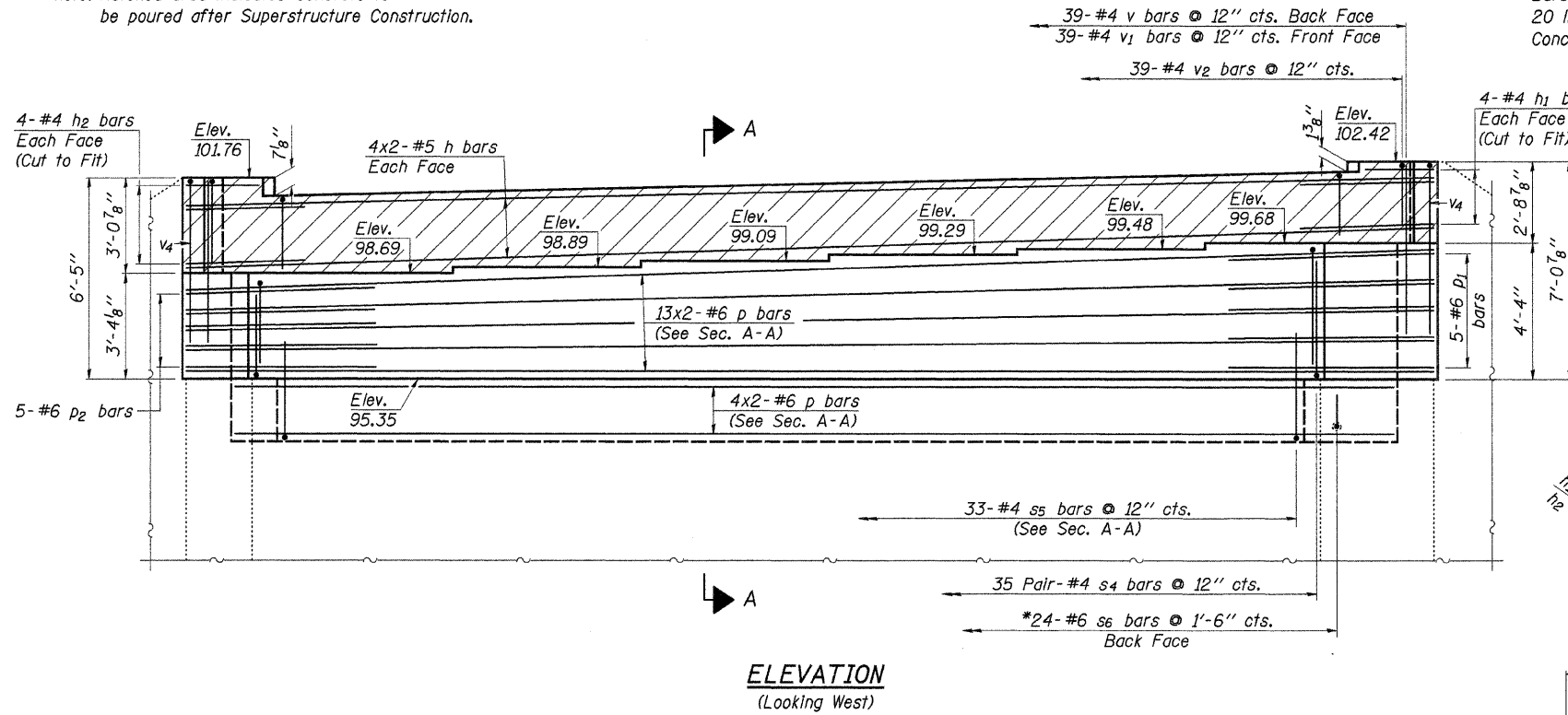
DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

PI-2E-1 9-3-07

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	11
ILLINOIS		Contract No. 87366		

Note: Hatched area indicates Concrete to be poured after Superstructure Construction.

Note: All edges shall have standard 3/4" chamfer. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line. Concrete Removal Details Shown on Sheet 12.



Note "A": Existing vertical reinforcement bars shall be cleaned and incorporated into new construction.

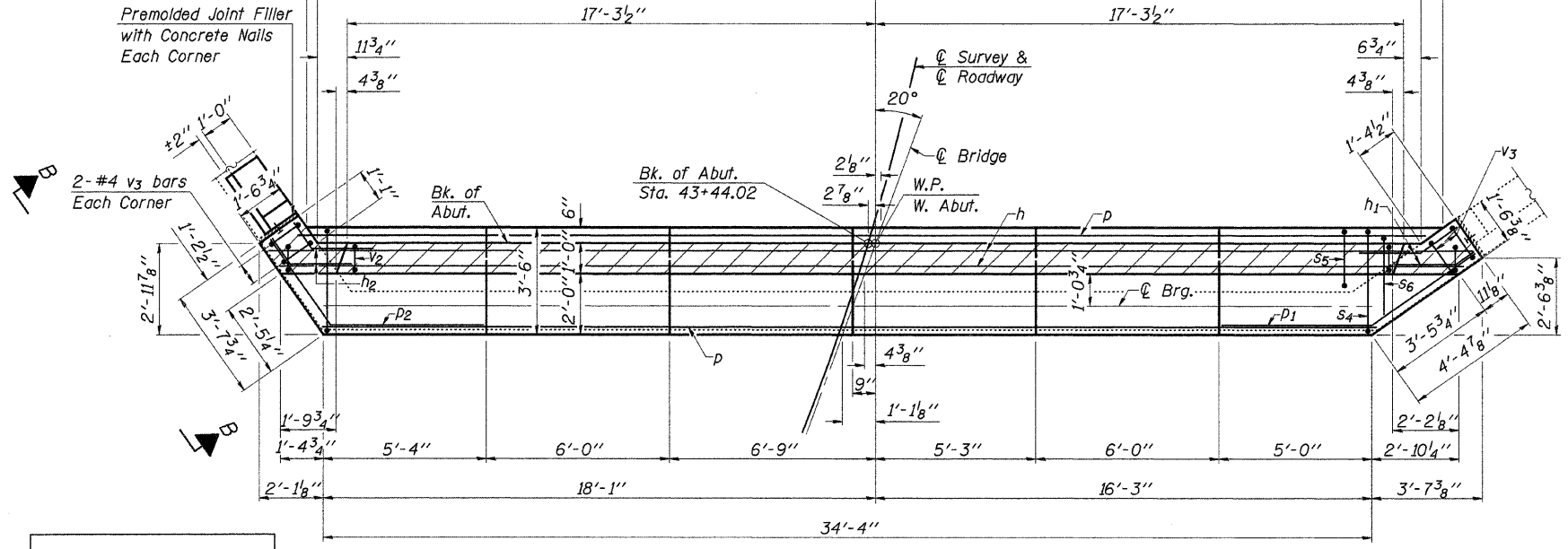
*#6 s6 bars at 1'-6" cts. to be epoxy grouted into existing abutment wall. The cost of epoxy grouting is included with Reinforcement Bars, Epoxy Coated.

WEST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	8	#5	21'-0"	—
h1	8	#5	3'-4"	—
h2	8	#5	3'-1"	—
h3	8	#4	2'-6"	—
p	34	#6	21'-3"	—
p1	5	#6	9'-0"	—
p2	5	#6	8'-3"	—
s4	35	#4	9'-2"	□
s5	31	#4	11'-9"	□
s6	24	#6	3'-6"	└
v	39	#4	5'-9"	—
v1	39	#4	5'-0"	—
v2	39	#4	4'-2"	□
v3	4	#4	11'-2"	□
v4	6	#4	3'-6"	—
Concrete Structures			Cu. Yd.	31.5
Reinforcement Bars, Epoxy Coated			Pound	2,470

MIN. BAR LAPS

- #4 1'-8"
- #5 2'-2"
- #6 2'-7"



PLAN



Note: See Sheet 10 for Elastomeric Bearing Pad Placement Plan and Offset Sketch.

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

WEST ABUTMENT DETAILS

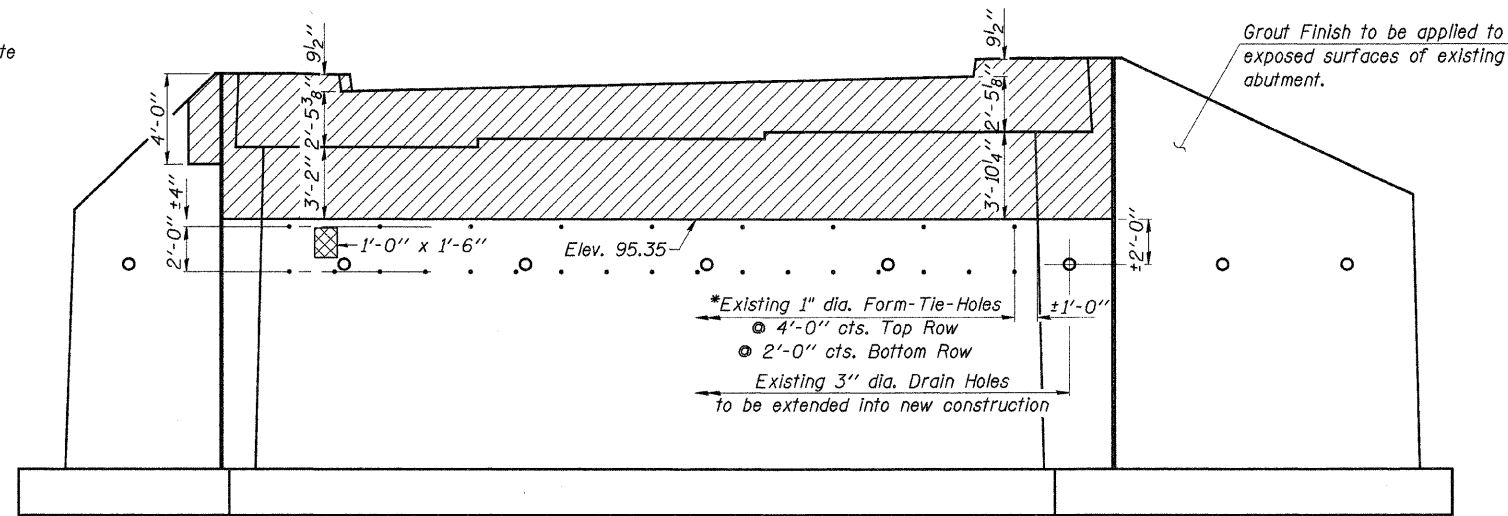
COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

LEGEND

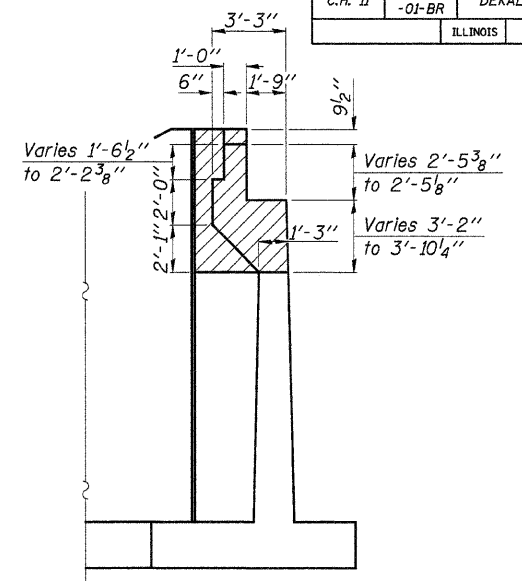
-  Hatched Area Indicates Concrete Removal
-  Cross Hatched area Indicates Structural Repair of Concrete

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	12

Contract No. 87366

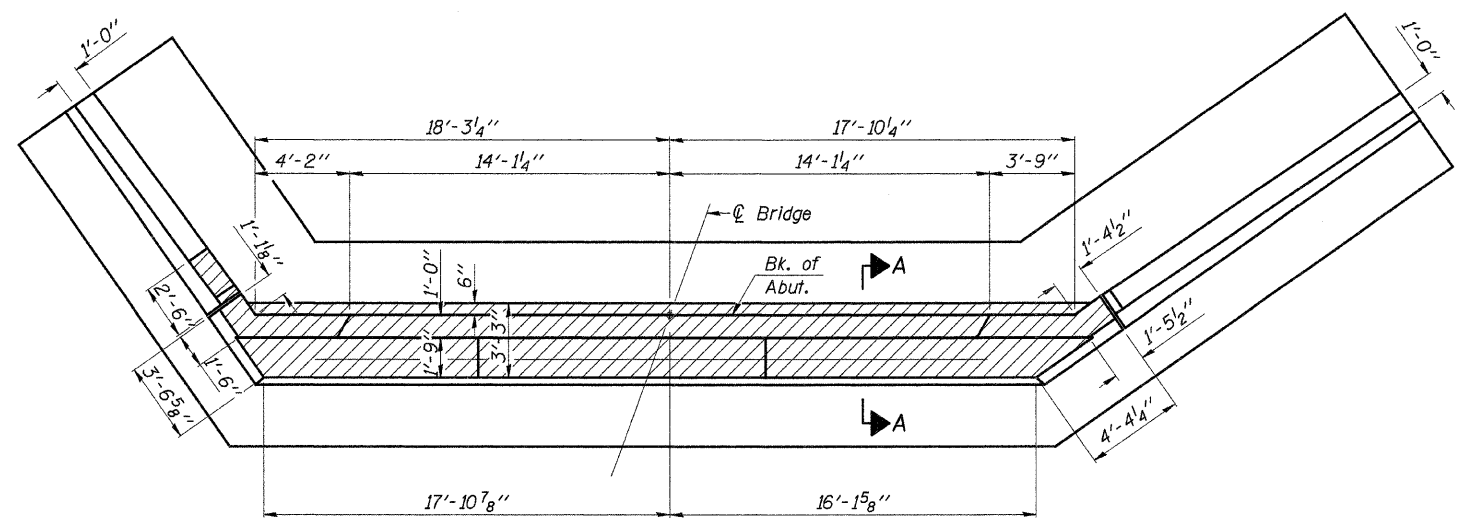


ELEVATION

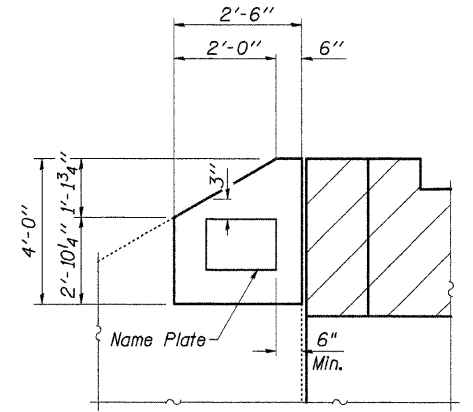


SEC. A-A

Note: Structure Excavation required for Concrete Removal and rehabilitation of the existing abutment is included in the cost of Concrete Structures.



PLAN



NAME PLATE LOCATION DETAIL

GROUT FINISH FOR EXISTING ABUTMENT SURFACES

After the existing abutment has been rehabilitated to be compatible with new construction, all exposed surfaces of the existing abutment shall receive a grout finish. The following procedures shall be used:

1. All existing surfaces receiving the grout finish shall be cleaned using methods acceptable to the Engineer to remove all dirt, mold, algae, grease, compounds or any bond breaking substance.
2. Sufficient water shall be applied to moisten the existing surfaces prior to application of grout material to prevent absorption of water from the grout.
3. Prepare an adhesive grout mixture having the consistency of thick paint and utilizing 1 part portland cement to 1 1/2 parts fine sand with a 1:1 mixture of bonding admixture and water.
4. During the preparation of the grout mixture, white portland cement shall be added in amounts determined by trial batches so that the color of the dry grout will match adjacent surfaces of the new construction.
5. Apply grout, minimum 1/16 inch thickness, to the existing surfaces.
6. Immediately after applying grout, scrub the surface with a cork float or stone while working grout into surface voids.
7. While grout is still plastic, remove excess grout by working the surface with rubber floats or bundled burlap sacks.
8. After grout whitens, rub the surface with clean burlap and keep surface damp by fog spray or other method approved by the Engineer for a minimum of 48 hours.

*Note: The existing material filling form-tie-holes in the abutment wall shall be removed to a minimum depth of 9 inches. The holes shall then be cleaned and filled with nonshrink grout meeting the requirements of Section 1024 of the Standard Specification of Road Bridge Construction. The temperature of the grout at time of placement shall be a minimum of 50° F and a maximum of 90° F. The inside surface of the holes shall be wetted a minimum of one hour before placement of the nonshrink grout. Prior to placement of the grout, all excess water shall be removed from the interior of the holes. The grout shall be compacted as it is placed within the holes using a rod or other suitable tool. After placement, the grout shall be troweled flush with the surface of the abutment wall. The cost of grouting existing form-tie-holes is included in the cost of Structural Repair of Concrete (Depth Equal To Or Less Than 5 In.).

The area of existing surface to receive a grout finish is estimated to be 398 Sq. Ft at the West Abutment. The cost of applying the grout finish to the existing abutment surfaces is included in the cost of Concrete Structures

WEST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	19
Structural Repair of Concrete (Depth Equal to or less than 5 in.)	Sq. Ft.	2

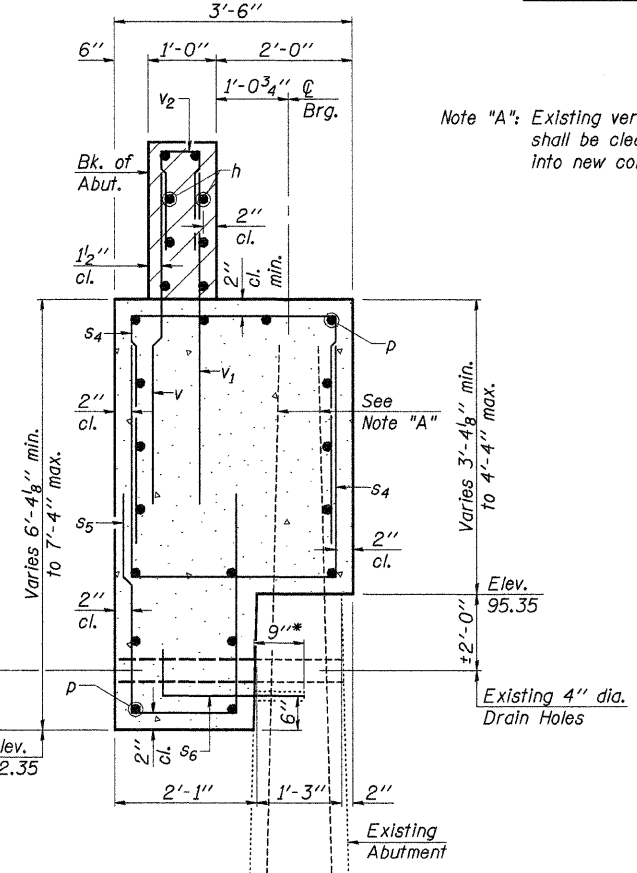
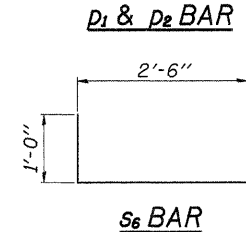
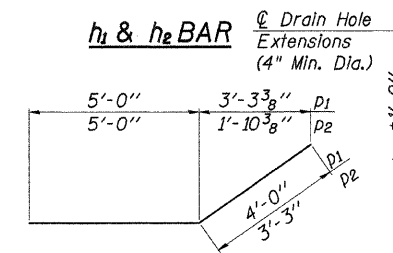
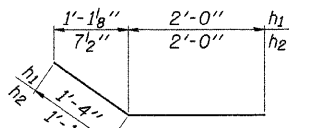
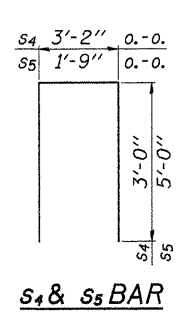
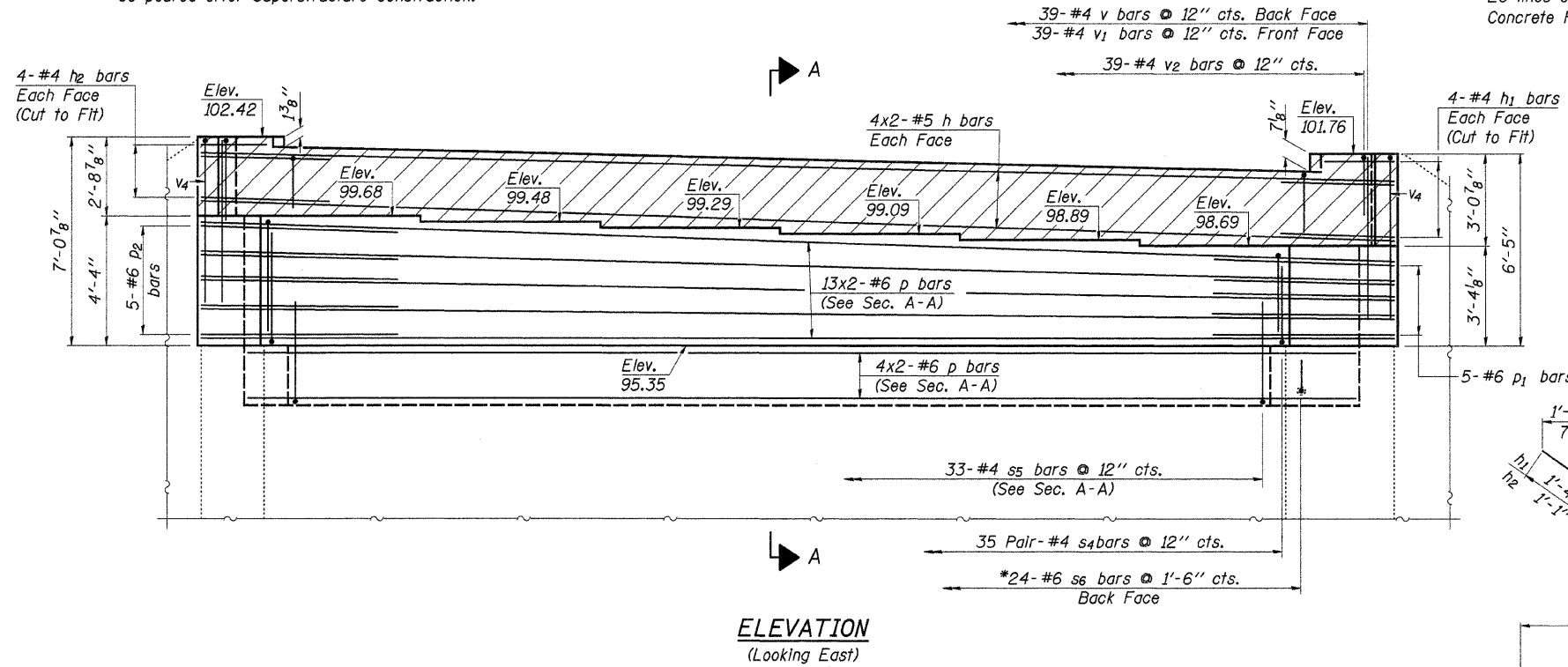
WEST ABUTMENT CONCRETE REMOVAL AND REPAIR DETAILS
 COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	13
ILLINOIS		Contract No. 87366		

Note: Hatched area indicates Concrete to be poured after Superstructure Construction.

Note: All edges shall have standard 3/4" chamfer. Bars indicated thus 20x3-#5 etc. indicates 20 lines of bars with 3 lengths per line. Concrete Removal Details Shown on Sheet 14.



Note "A": Existing vertical reinforcement bars shall be cleaned and incorporated into new construction.

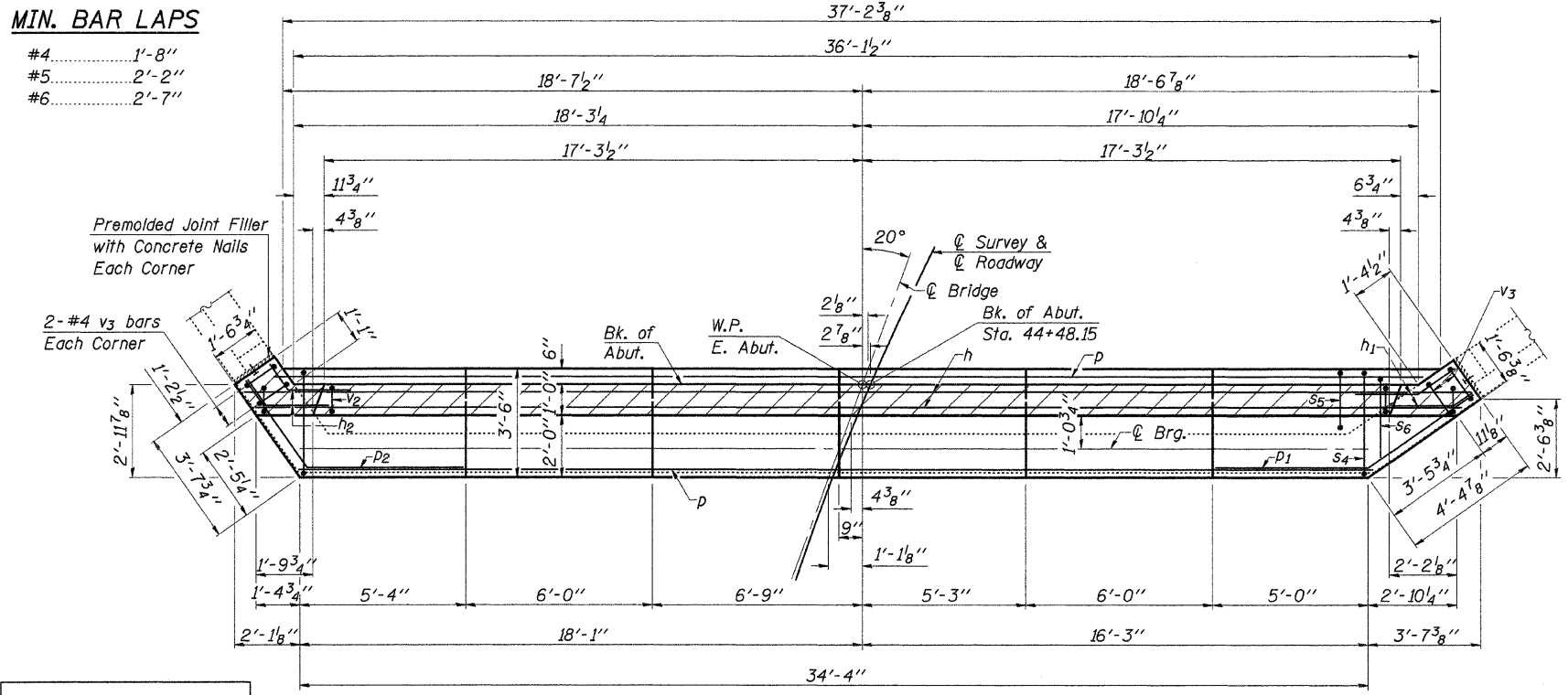
SECTION A-A
*#6 s6 bars at 1'-6" cts. to be epoxy grouted into existing abutment wall. The cost of epoxy grouting is included with Reinforcement Bars, Epoxy Coated.

EAST ABUTMENT BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h	8	#5	21'-0"	—
h1	8	#5	3'-4"	—
h2	8	#5	3'-1"	—
p	34	#6	21'-3"	—
p1	5	#6	9'-0"	—
p2	5	#6	8'-3"	—
s4	35	#4	9'-2"	□
s5	31	#4	11'-9"	□
s6	24	#6	3'-6"	□
v	39	#4	5'-9"	—
v1	39	#4	5'-0"	—
v2	39	#4	4'-2"	□
v3	4	#4	11'-2"	□
Concrete Structures			Cu. Yd.	31.1
Reinforcement Bars, Epoxy Coated			Pound	2,450

MIN. BAR LAPS

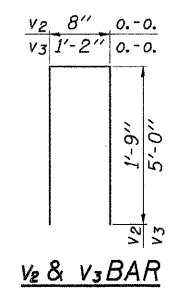
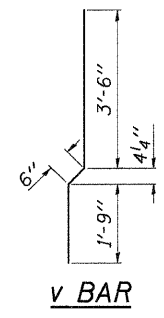
- #4.....1'-8"
- #5.....2'-2"
- #6.....2'-7"



PLAN

Note: See Sheet 10 for Elastomeric Bearing Pad Placement Plan and Offset Sketch.

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

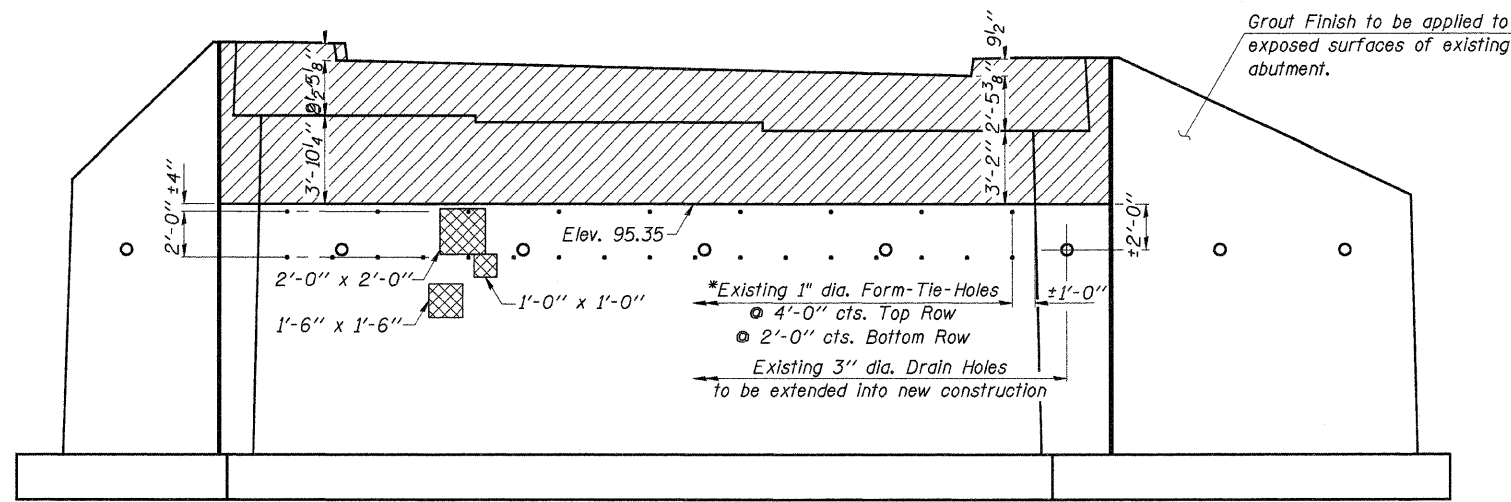


EAST ABUTMENT DETAILS

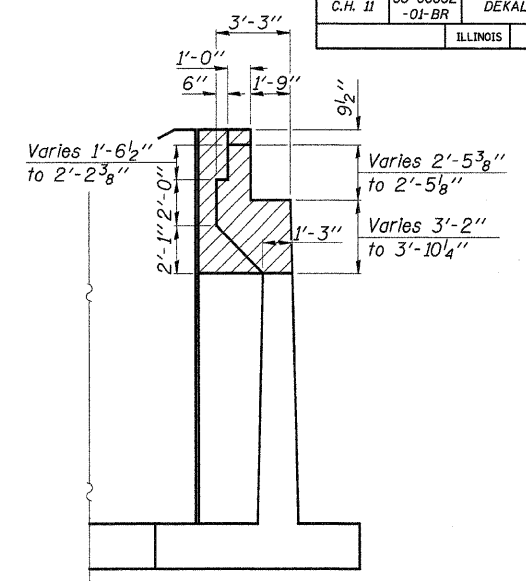
COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	14

ILLINOIS Contract No. 87366

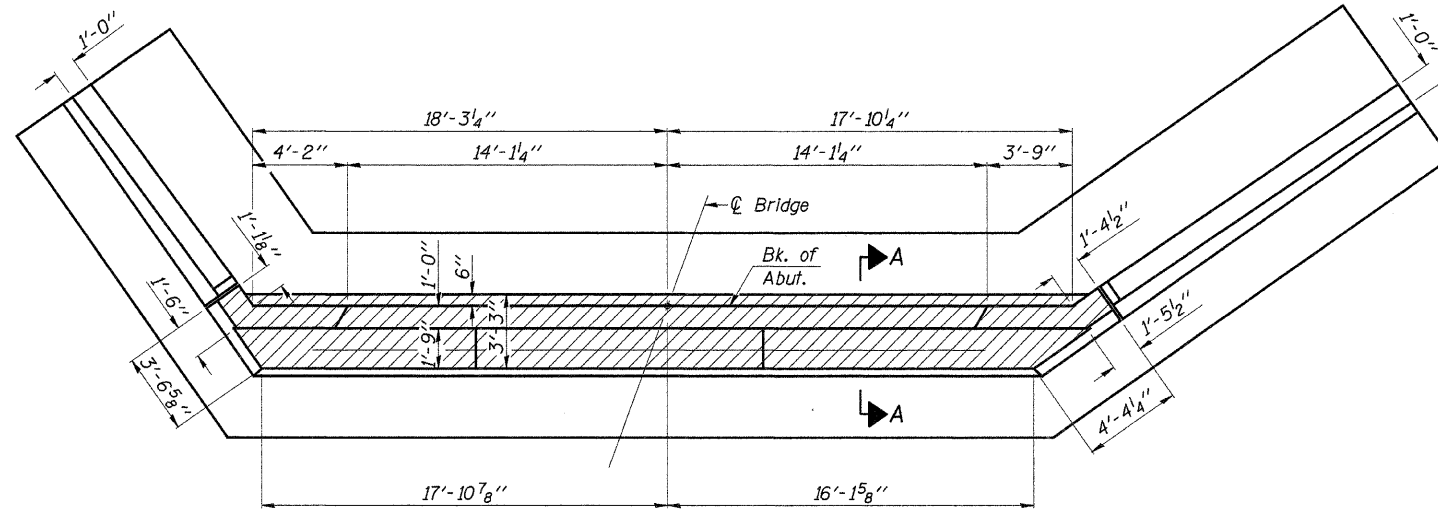
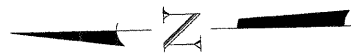


ELEVATION



SEC. A-A

Note: Structure Excavation required for Concrete Removal and rehabilitation of the existing abutment is included in the cost of Concrete Structures.



PLAN

LEGEND

- Hatched Area Indicates Concrete Removal
- Cross Hatched area indicates Structural Repair of Concrete

GROUT FINISH FOR EXISTING ABUTMENT SURFACES

After the existing abutment has been rehabilitated to be compatible with new construction, all exposed surfaces of the existing abutment shall receive a grout finish. The following procedures shall be used:

1. All existing surfaces receiving the grout finish shall be cleaned using methods acceptable to the Engineer to remove all dirt, mold, algae, grease, compounds or any bond breaking substance.
2. Sufficient water shall be applied to moisten the existing surfaces prior to application of grout material to prevent absorption of water from the grout.
3. Prepare an adhesive grout mixture having the consistency of thick paint and utilizing 1 part portland cement to 1 1/2 parts fine sand with a 1:1 mixture of bonding admixture and water.
4. During the preparation of the grout mixture, white portland cement shall be added in amounts determined by trial batches so that the color of the dry grout will match adjacent surfaces of the new construction.
5. Apply grout, minimum 1/8 inch thickness, to the existing surfaces.
6. Immediately after applying grout, scrub the surface with a cork float or stone while working grout into surface voids.
7. While grout is still plastic, remove excess grout by working the surface with rubber floats or bundled burlap sacks.
8. After grout whitens, rub the surface with clean burlap and keep surface damp by fog spray or other method approved by the Engineer for a minimum of 48 hours.

*Note: The existing material filling form-tie-holes in the abutment wall shall be removed to a minimum depth of 9 inches. The holes shall then be cleaned and filled with nonshrink grout meeting the requirements of Section 1024 of the Standard Specification of Road Bridge Construction. The temperature of the grout at time of placement shall be a minimum of 50° F and a maximum of 90° F. The inside surface of the holes shall be wetted a minimum of one hour before placement of the nonshrink grout. Prior to placement of the grout, all excess water shall be removed from the interior of the holes. The grout shall be compacted as it is placed within the holes using a rod or other suitable tool. After placement, the grout shall be troweled flush with the surface of the abutment wall. The cost of grouting existing form-tie-holes is included in the cost of Structural Repair of Concrete (Depth Equal To Or Less Than 5 In.).

The area of existing surface to receive a grout finish is estimated to be 398 Sq. Ft at the West Abutment. The cost of applying the grout finish to the existing abutment surfaces is included in the cost of Concrete Structures

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

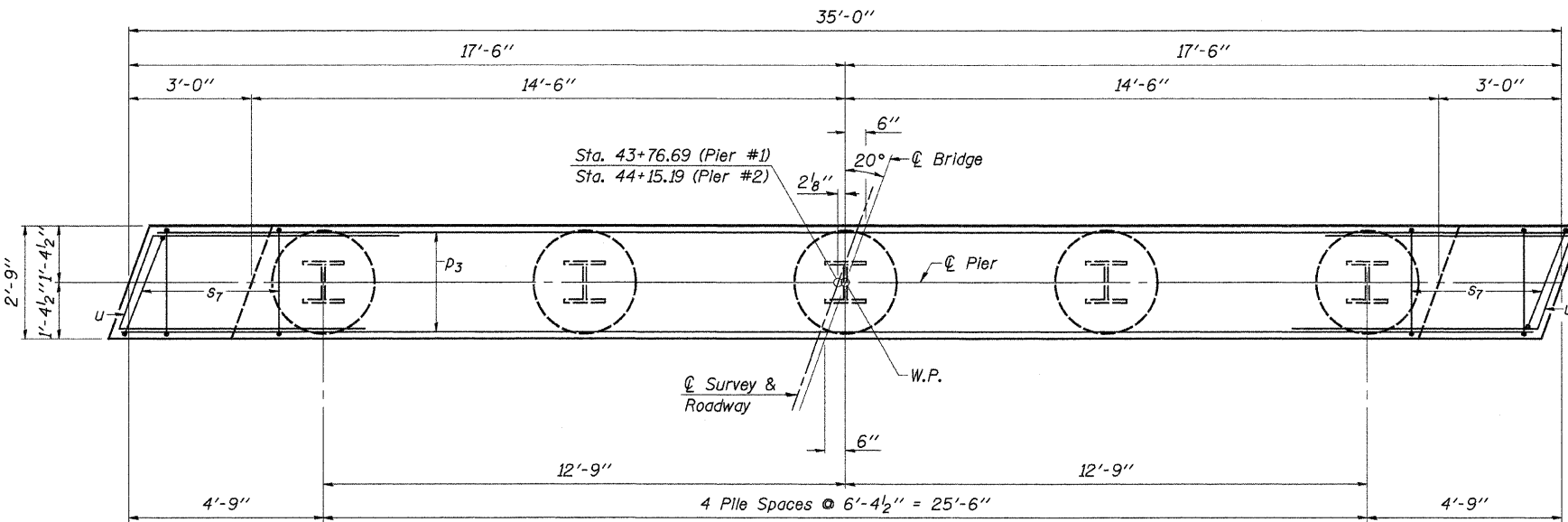
EAST ABUTMENT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	18
Structural Repair of Concrete (Depth Equal to or less than 5 in.)	Sq. Ft.	8

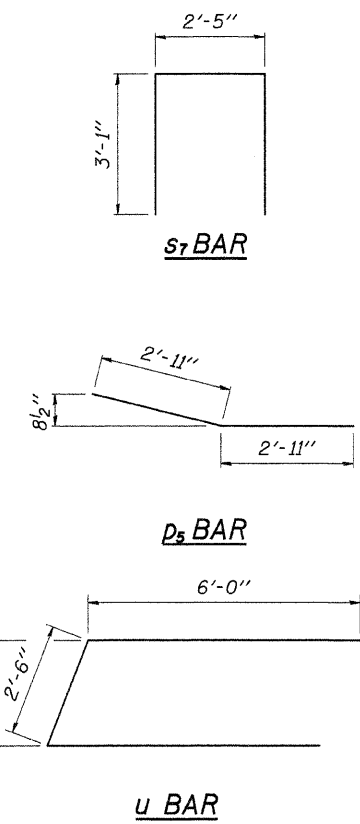
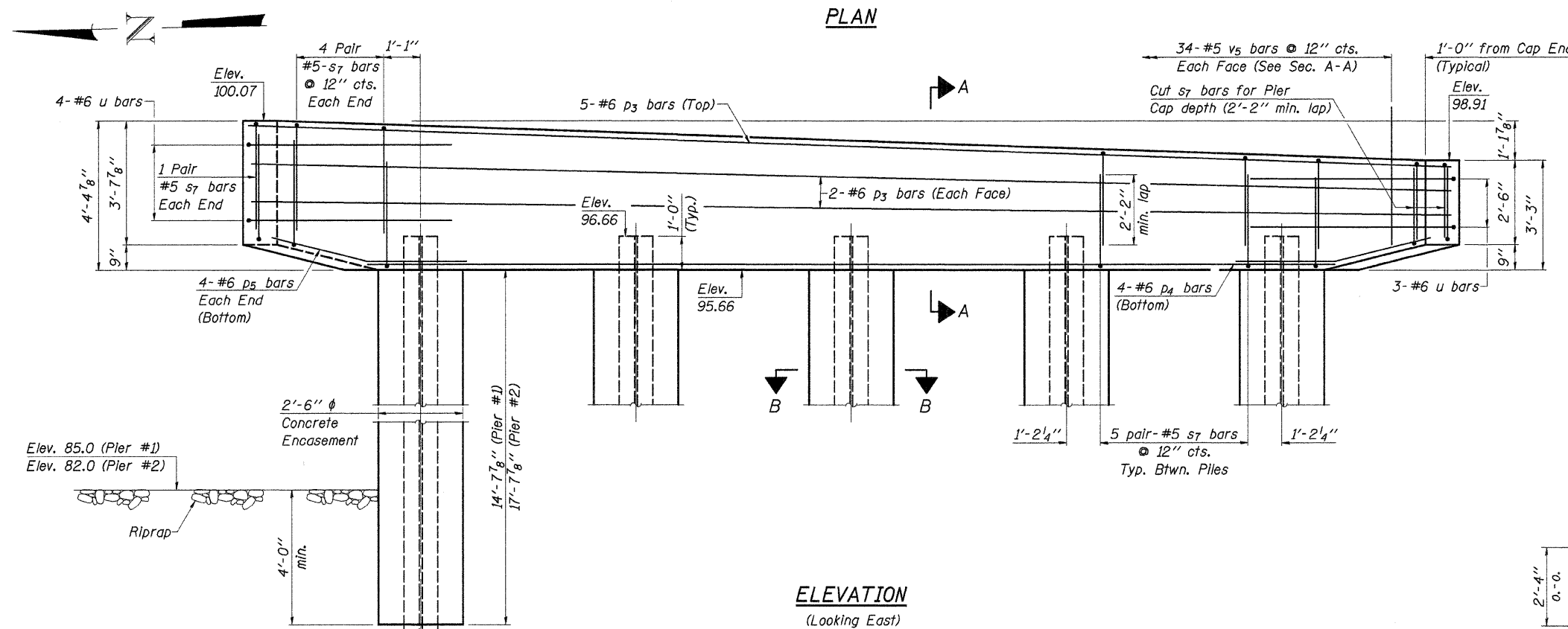
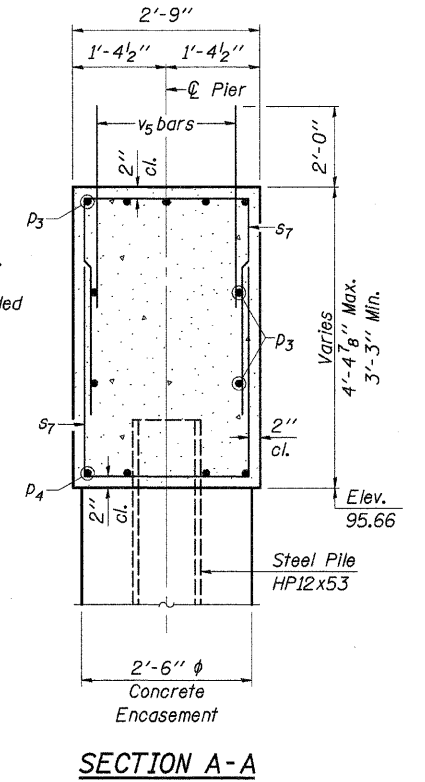
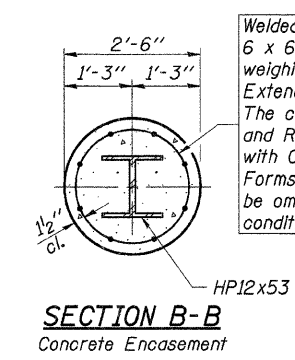
EAST ABUTMENT CONCRETE REMOVAL AND REPAIR DETAILS
 COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREDERICK, ROCHESTER, ROCHELLE, MORRIS, SPRINGFIELD, IL	JOB NO.: 47538 FILE: E.ABUT_CONC.DWG DATE: 09/02/08
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ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	15
ILLINOIS		Contract No. 87366		



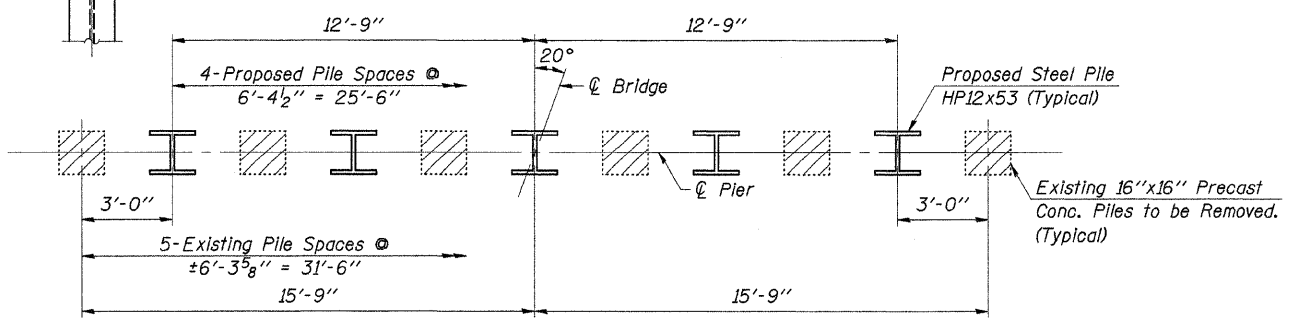
Note: All edges shall have standard 3/4" chamfer.



**TWO PIERS
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
p3	18	#6	34'-8"	—
p4	8	#6	28'-8"	—
p5	16	#6	5'-10"	—
s7	120	#5	8'-7"	□
u	14	#6	14'-6"	⊔
v5	136	#5	4'-0"	—
Concrete Structures			Cu. Yd.	26.8
Reinforcement Bars, Epoxy Coated			Pound	3,370
Steel Piles, HP12x53			Foot	450
Test Pile Steel HP12x53			Each	1
Concrete Encasement			Cu. Yd.	29.4

Note: All Reinforcement Bars shall be Epoxy Coated.



PILE DATA

Type & Size..... Steel HP12x53
 No. Req'd. (2 Piers)..... *10
 Nominal Required Bearing..... 417 Kips
 Allowable Resistance Available..... 139 Kips
 Estimated Length..... 50 ft.
 *Includes 1 Test Pile to be driven in a permanent location at pier #2
 The test piles shall be driven to 110 percent of the Nominal Required Bearing provided in the Pile Data.

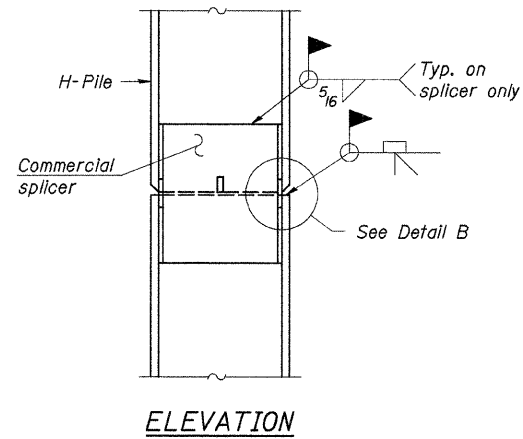
DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

PIERS
 COUNTY HIGHWAY 11
 SECTION 06-00002-01-BR
 DEKALB COUNTY
 STATION 43+96

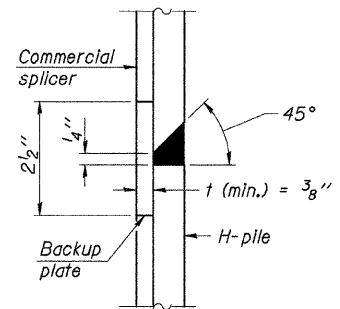
4440 ASH GROVE
 SPRINGFIELD, IL 62711
 (217) 793-8600
 www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 PROJECT: C. HODGSON, C. HODGSON & HODGSON, INC. SPRINGFIELD, IL

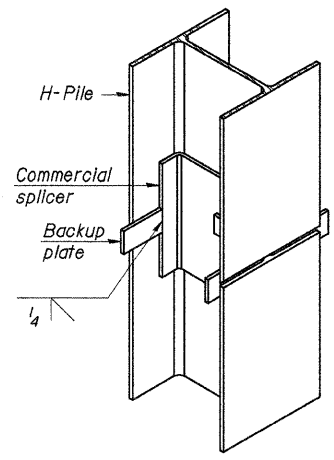
JOB NO.: 47538
 FILE: PIERS.DGN
 DATE: 09/02/08



ELEVATION

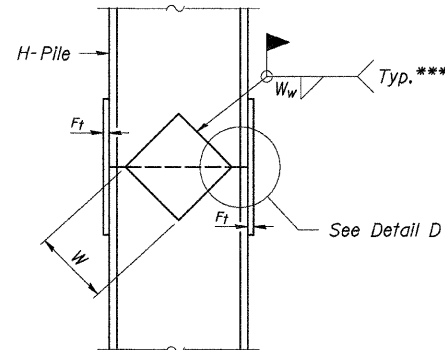


DETAIL "B"

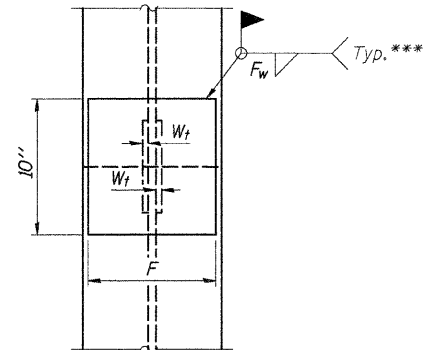


ISOMETRIC VIEW

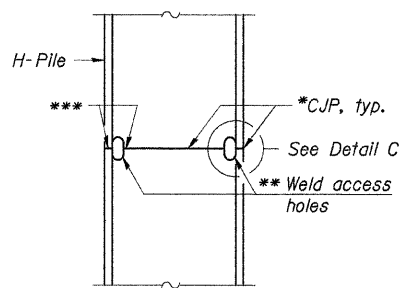
WELDED COMMERCIAL SPLICE



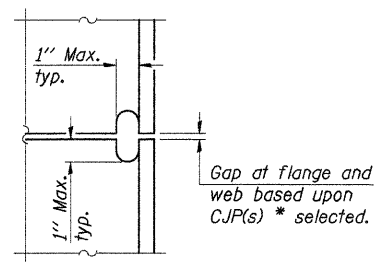
ELEVATION



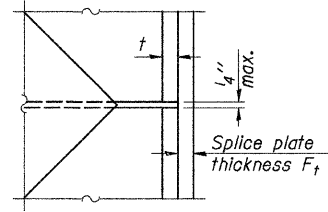
END VIEW



ELEVATION



DETAIL C



DETAIL D

COMPLETE PENETRATION WELD SPLICE

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/2"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/2"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

F-HP 11-1-06

- * Use joint conforming to Figure 3.4 in AWS D1.1, Structure Welding Code - Steel.
- ** Preparation per Fig. 5.2 in AWS D1.1, Structure Welding Code - Steel.
- *** Interrupt welds 1/4" from end of each pile.

Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

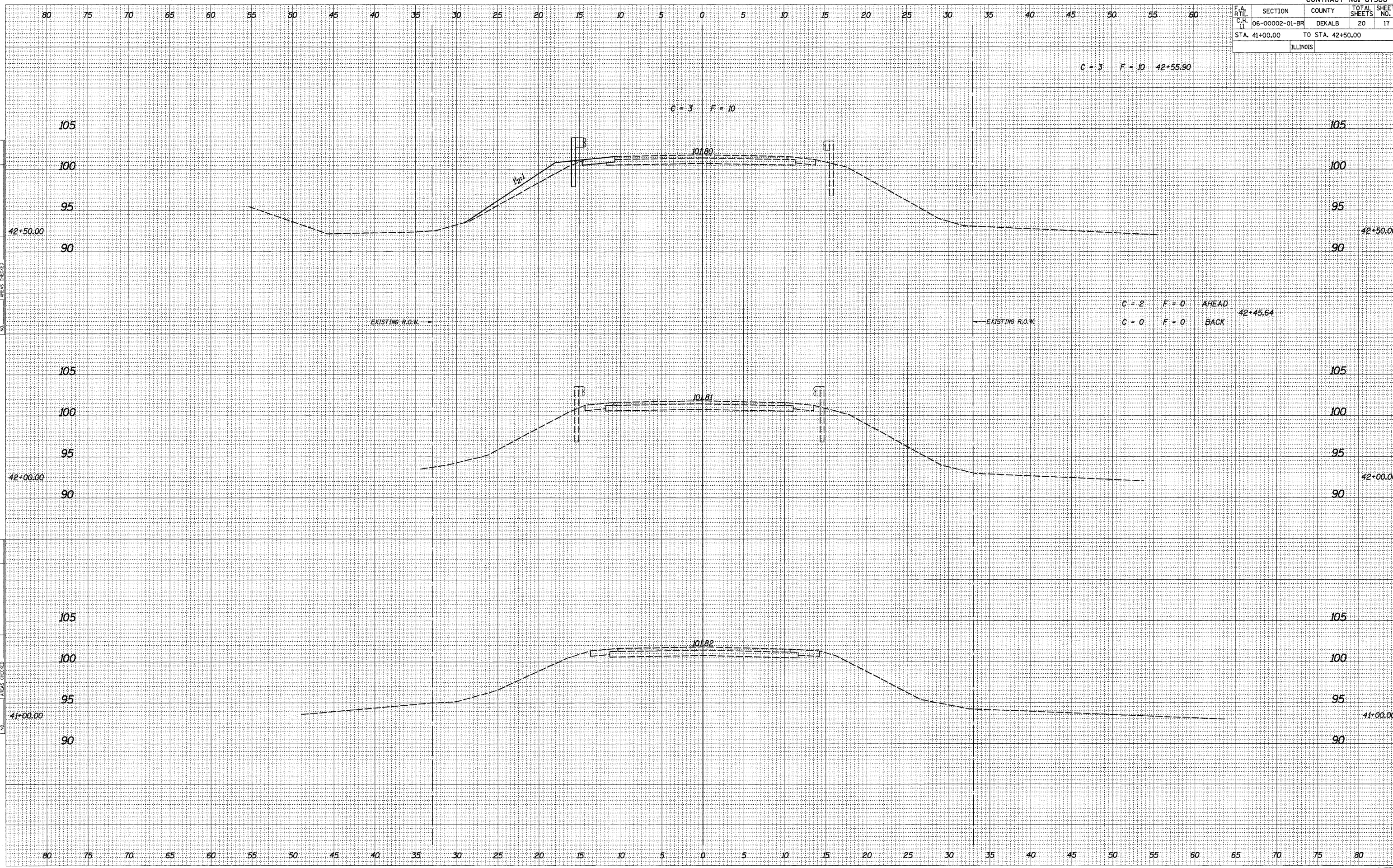
STEEL PILE SPLICING DETAILS
COUNTY HIGHWAY 11
SECTION 06-00002-01-BR
DEKALB COUNTY
STATION 43+96

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	17
STA. 41+00.00 TO STA. 42+50.00			ILLINOIS	

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	TEMPLATE		
	AREAS CHECKED		

PLOT DATE = 01/11/08
 FILE NAME = 47538\SEC5\SEC5.DGN
 PLOT SCALE = 5
 USER NAME = S. PRICE

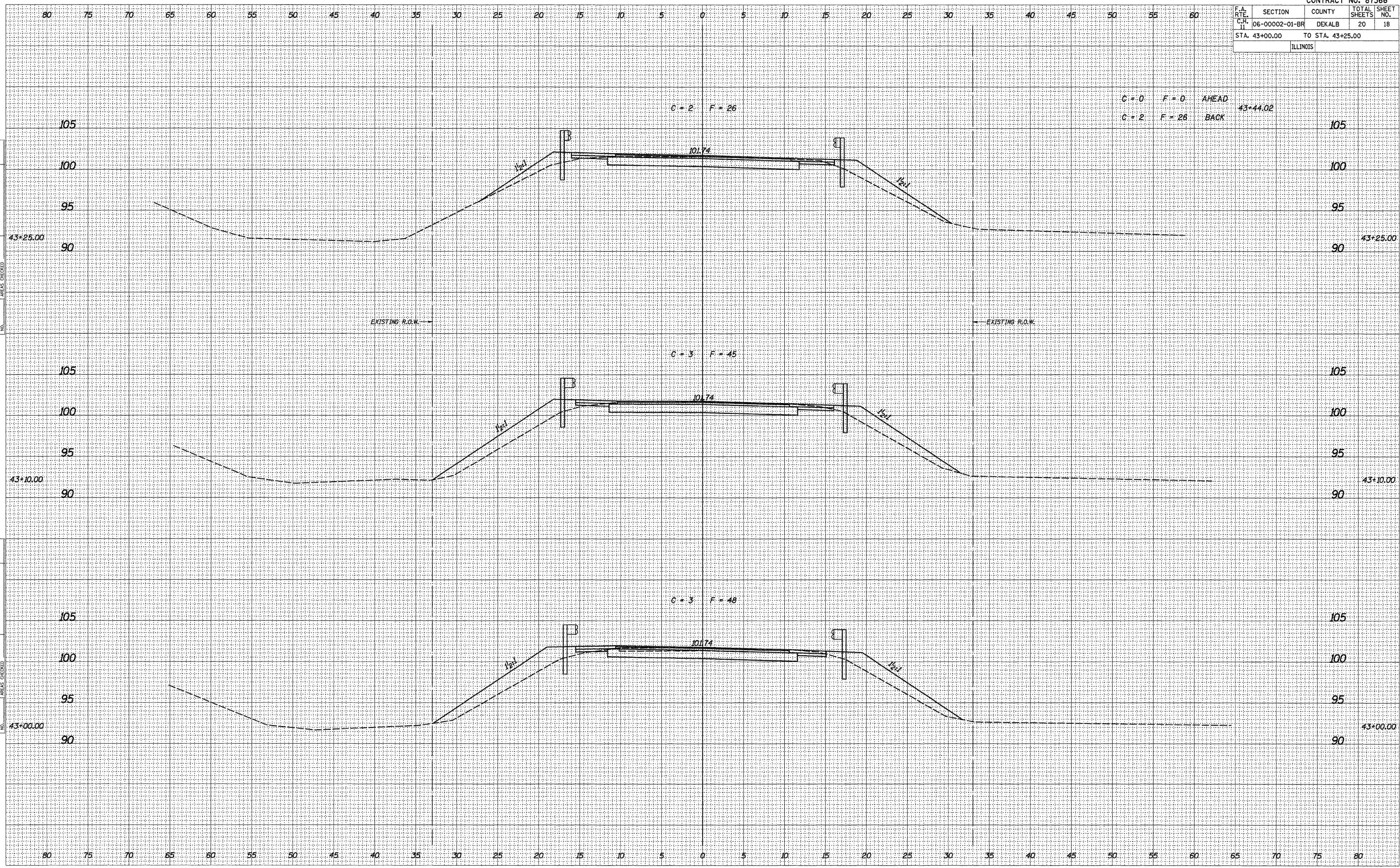


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. II	06-00002-01-BR	DEKALB	20	18
STA. 43+00.00		TO STA. 43+25.00		
ILLINOIS				

DATE	BY
NO.	NO.
AREAS CHECKED	AREAS CHECKED
AREAS	AREAS
TEMPLATE	TEMPLATE
PLOTTED	PLOTTED
SUBMITTED	SUBMITTED
SURVEY	SURVEY
FINAL	FINAL

DATE	BY
NO.	NO.
AREAS CHECKED	AREAS CHECKED
AREAS	AREAS
TEMPLATE	TEMPLATE
PLOTTED	PLOTTED
SUBMITTED	SUBMITTED
SURVEY	SURVEY
ORIGINAL	ORIGINAL

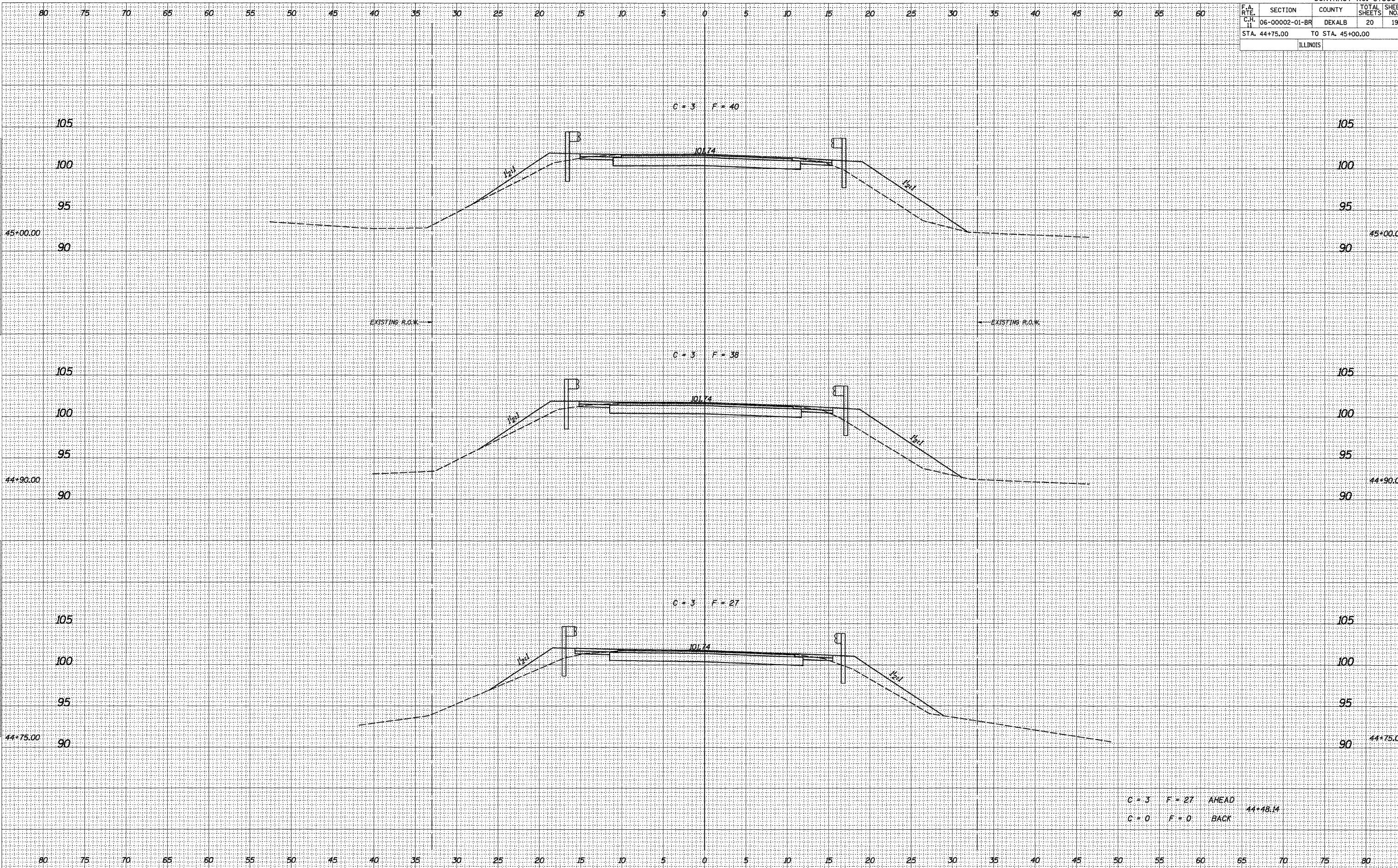
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PLOT SCALE = 5
USER NAME = S. PRICE



F.A. RTE. C.H. II	SECTION 06-00002-01-BR	COUNTY DEKALB	TOTAL SHEETS 20	SHEET NO. 19
STA. 44+75.00		TO STA. 45+00.00		
ILLINOIS				

DATE	BY
SURVEY	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	

DATE	BY
SURVEY	DATE
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 11	06-00002-01-BR	DEKALB	20	20
STA. 45+50.00		TO STA. 46+50.00		
ILLINOIS				

FINAL SURVEY	DATE
BY	
NO.	
SUPERVISED	DATE
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

ORIGINAL SURVEY	DATE
BY	
NO.	
SUPERVISED	DATE
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	

PLOT DATE = 01/11/08
 FILE NAME = 47538XSECSHEETS.DGN
 PLOT SCALE = 5
 USER NAME = S. PRICE

