

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	1
STAGECOACH TRIAL		ILLINOIS		

CONTRACT NO. 85462

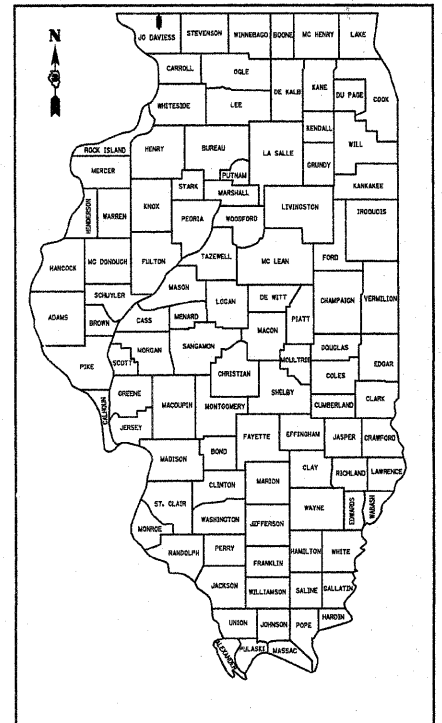
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

**SECTION 93-00112-00-BR
JO DAVIESS COUNTY
PROJECT NO. BRS-067 (107)
C.H. 3
JOB NO. C-92-084-96
CONTRACT NO. 85462**

SHEET NO.	INDEX OF SHEETS	TITLE
1.	COVER SHEET	
2.	SUMMARY OF QUANTITIES, GENERAL NOTES & TYPICAL SECTIONS	
3.-5.	PLAN AND PROFILE SHEET	
6.-7.	ENTRANCE DETAILS & FENCING DETAILS	
8.	APPROACH SLAB CONNECTOR DETAILS	
9.	SHOULDER AND GUARDRAIL DETAILS	
10.-28.	BRIDGE PLANS	
29.-39.	STATION CROSS SECTIONS	
40.-42.	EROSION CONTROL PLAN	

STANDARDS:

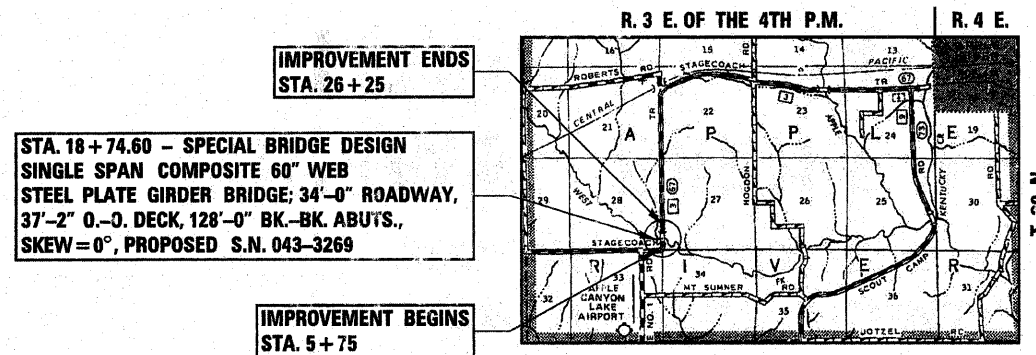
- 280001-04 TEMPORARY EROSION CONTROL SYSTEMS
- 420401-07 BRIDGE APPROACH PAVEMENT CONNECTOR
- 515001-03 NAME PLATE FOR BRIDGES
- 601101-01 CONCRETE HEADWALL FOR PIPE DRAIN
- 630001-08 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
- 631031-07 TRAFFIC BARRIER TERMINAL, TYPE 6
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 665001-02 WOVEN WIRE FENCE
- 701001-02 OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 4.5 M (15') AWAY
- 701006-03 OFF-ROAD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
- 701201-03 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 M.P.H.
- 701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
- 701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
- 701901-01 TRAFFIC CONTROL DEVICES
- 720011-01 METAL POSTS FOR SIGNS, MARKERS AND DELINEATORS
- 728001-01 TELESCOPING STEEL SIGN SUPPORT
- 729001-01 APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS)
- 780001-02 TYPICAL PAVEMENT MARKINGS
- BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- BLR 22-6 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO LANE, TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)



LOCATION OF SECTION INDICATED THUS: —

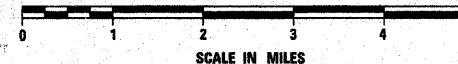
CLASSIFICATION: RURAL TWO-LANE COLLECTOR
DESIGN VOLUME: 400-750 ADT
CURRENT ADT: 660 (2009)
DESIGN ADT: 720 (2029)
DESIGN SPEED: 55 MPH

TOLL FREE JOINT UTILITY LOCATING
 INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
 TELEPHONE NUMBER 1-800-892-0123

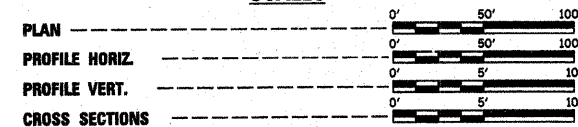


LOCATION PLAN

GROSS LENGTH OF SECTION = 2,050 FEET = 0.388 MILES
 NET LENGTH OF SECTION = 2,050 FEET = 0.388 MILES

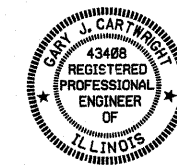


SCALES



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

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
MEMBER OF THE FERRIS GROUP OF COMPANIES



Cary J. Cartwright 6-1-09
 ILLINOIS PROFESSIONAL NO. 43408
 EXPIRES 11-30-09

APPROVED	<i>[Signature]</i> 6-2 2009
PASSED	<i>[Signature]</i> June 9 2009
RELEASED FOR BID BASED ON LIMITED REVIEW	<i>[Signature]</i> June 9 2009
DISTRICT ENGINEER OF LOCAL ROADS & STREETS DEPUTY DIRECTOR OF HIGHWAYS, REGION TWO ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	

SUMMARY OF QUANTITIES

CONSTRUCTION TYPE
CODE X071-2A

NUMBER	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	60
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	644
20200100	EARTH EXCAVATION	CU YD	5,596
20300100	CHANNEL EXCAVATION	CU YD	365
20400800	FURNISHED EXCAVATION	CU YD	22,897
* 20700400	POROUS GRANULAR EMBANKMENT, SPECIAL	CU YD	196
* 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	3.2
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	700
28000300	TEMPORARY DITCH CHECKS	EACH	36
28000400	PERIMETER EROSION BARRIER	FOOT	4,980
28000500	INLET AND PIPE PROTECTION	EACH	6
* 28100209	STONE RIPRAP, CLASS A5	TON	1,204
* 28102600	STONE RIPRAP, DITCH	TON	1,977
28200200	FILTER FABRIC	SQ YD	1,045
35101400	AGGREGATE BASE COURSE, TYPE B	TON	3,370
40200100	AGGREGATE SURFACE COURSE, TYPE A	TON	35
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	2,278
40600625	LEVELING BINDER (MACHINE METHOD), N50	TON	54
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	570
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	396
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	699
44000100	PAVEMENT REMOVAL	SQ YD	4,565
48101200	AGGREGATE SHOULDERS, TYPE B	TON	567
* 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	136
50300100	FLOOR DRAINS	EACH	7
50300225	CONCRETE STRUCTURES	CU YD	66.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	309.8
50300260	BRIDGE DECK GROOVING	SQ YD	674
50300280	CONCRETE ENCASMENT	CU YD	5.6
50300300	PROTECTIVE COAT	SQ YD	853
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	1,700
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	76,370
50800515	BAR SPLICERS	EACH	68
51201900	FURNISHING STEEL PILES HP14X89	FOOT	285
51500100	NAME PLATES	EACH	1
54202125	PIPE CULVERTS, TYPE 3, RCCP 30"	FOOT	136
54205893	PIPE CULVERTS, TYPE 1, CORRUGATED STEEL, EQUIVALENT ROUND-SIZE 18"	FOOT	118
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	162
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	110
* 60100060	CONCRETE HEADWALL FOR PIPE DRAINS	EACH	4
* 60109580	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168
60236200	INLETS, TYPE A, TYPE B GRATE	EACH	1
Δ 63000001	STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS	FOOT	100
Δ 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4
Δ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 SPECIAL (TANGENT)	EACH	4
67100100	MOBILIZATION	L SUM	1
* 70101700	TRAFFIC CONTROL AND PROTECTION	L SUM	1
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	8,710
Δ* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	6
Δ* 78200520	BARRIER WALL MARKERS, TYPE B	EACH	12
Δ* 78201000	TERMINAL MARKER-DIRECT APPLIED	EACH	4
X0322941	FURNISHING AND INSTALLING STEEL GATE ASSEMBLY	EACH	1
XX006653	FENCE (SPECIAL)	FOOT	3,196
Z0022800	FENCE REMOVAL	FOOT	2,496
* Z0065000	SETTING PILES IN ROCK	EACH	10

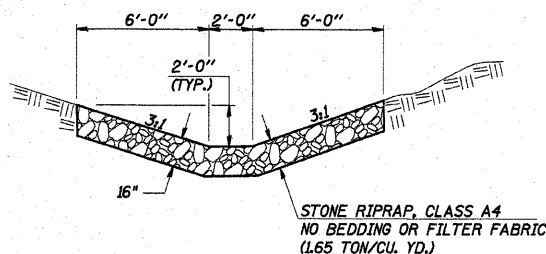
*SEE SPECIAL PROVISIONS Δ SPECIALTY ITEMS

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.

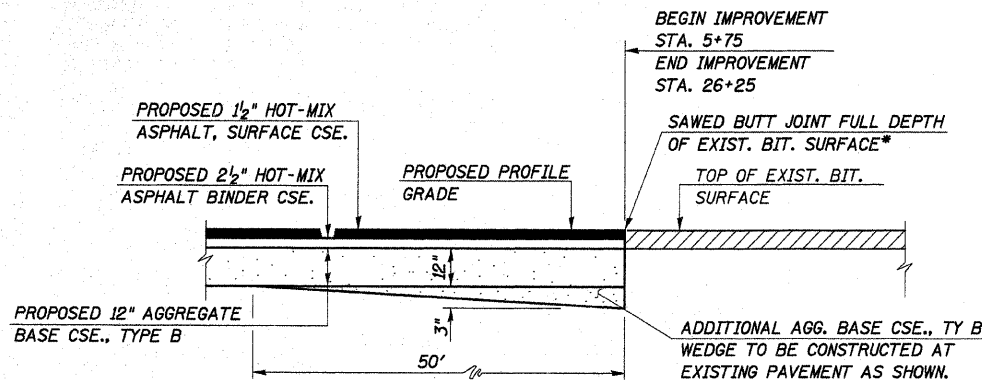
THE AREA TO BE SEEDDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY, AS DIRECTED BY THE ENGINEER.

SEEDING, CLASS 2 (SPECIAL) = 3.2 ACRES



STONE RIPRAP DITCH

RT. STA. 14+00 TO RT. STA. 15+36 = 221 TON
 LT. STA. 21+00 TO LT. STA. 26+25 = 767 TON
 RT. STA. 20+00 TO RT. STA. 26+25 = 989 TON
 TOTAL = 1,977 TON



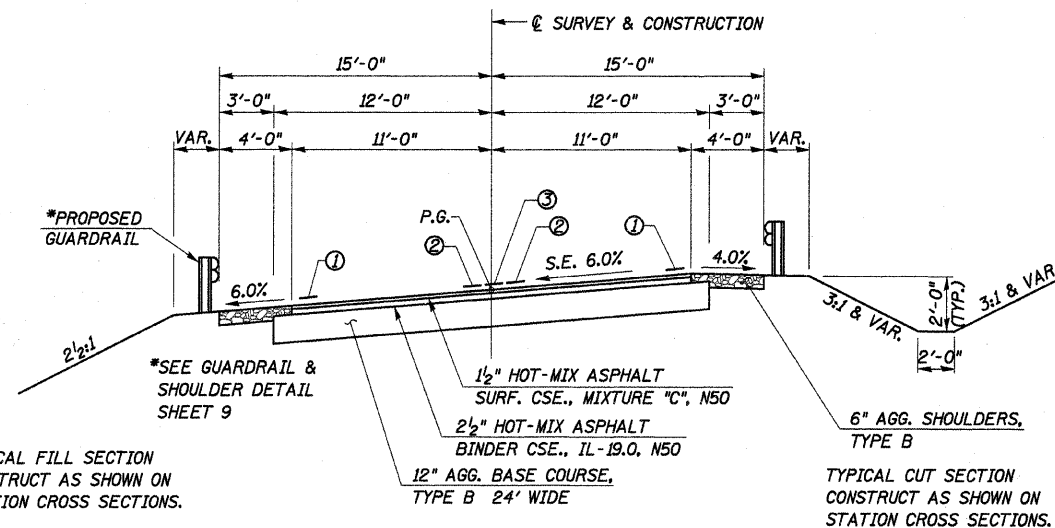
ELEVATION AT BEGINNING AND END OF IMPROVEMENT

JOINT DETAILS

*COST INCLUDED IN "PAVEMENT REMOVAL".

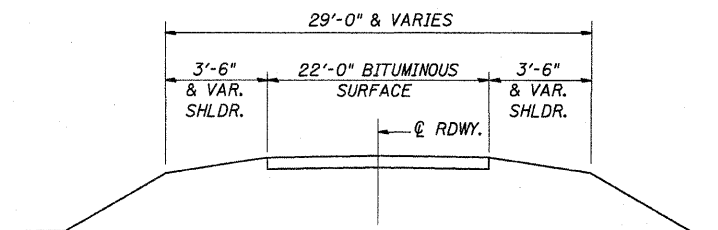
HOT-MIX ASPHALT MIXTURE REQUIREMENTS			
MIXTURE USE(S)	SURFACE	LEVEL BINDER	BINDER
PG:	PG 58-22	PG 58-22	PG 58-22
DESIGN AIR VOIDS:	3.0 @ N50	3.0 @ N50	3.0 @ N50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 9.5 OR 12.5	IL 9.5	IL 19.0
FRICTION AGGREGATE	C	N/A	N/A
20 YEAR ESAL	0.0	0.0	0.0
MIX UNIT WEIGHT	112 LBS/SY/IN		

- ① SOLID WHITE PAINT PAVEMENT MARKING - LINE 4"
- ② SOLID YELLOW PAINT PAVEMENT MARKING - LINE 4"
- ③ SKIP-DASH YELLOW PAINT PAVEMENT MARKING - LINE 4"



PROPOSED TYPICAL CROSS SECTION

STA. 7+72.75 TO STA. 24+44.87
 S.E. TRANSITION FROM NORMAL 3/16" / FT. CROWN STA. 5+96.75 TO FULL S.E. STA. 7+72.75 AND FROM FULL S.E. STA. 24+44.87 TO NORMAL 3/16" / FT. CROWN STA. 26+20.87. TRANSITION FROM EXISTING CROWN STA. 5+75 TO NORMAL 3/16" / FT. CROWN STA. 5+96.75 AND FROM NORMAL CROWN STA. 26+20.87 TO EXISTING CROWN STA. 26+25.



EXISTING TYPICAL CROSS SECTION

PAVEMENT DESIGN

Structural Design Traffic (S.D.T.): Year 2017; P.V. = 662, S.U. = 14, M.U. = 14 Class III Road

Minimum Soil Support: I.B.R. = 3.0 (Assumed) (> 3 k.s.f.)

Percent of S.D.T. In Design Lane: P = 50%, S = 50%, M = 50% T.F. = 0.118

Temp. = 72° F.; E_{ac} = 656; Design Strain = 327

SUMMARY OF QUANTITIES, GENERAL NOTES AND DETAILS

SECTION 93-00112-00-BR
 JoDAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVIESS	42	2

CONTRACT NO. 85462

E. 1/2, E. 1/2, SEC. 28, T. 29 N., R. 3 E., 4TH P.M.

WILLIAM S. MCFADDEN

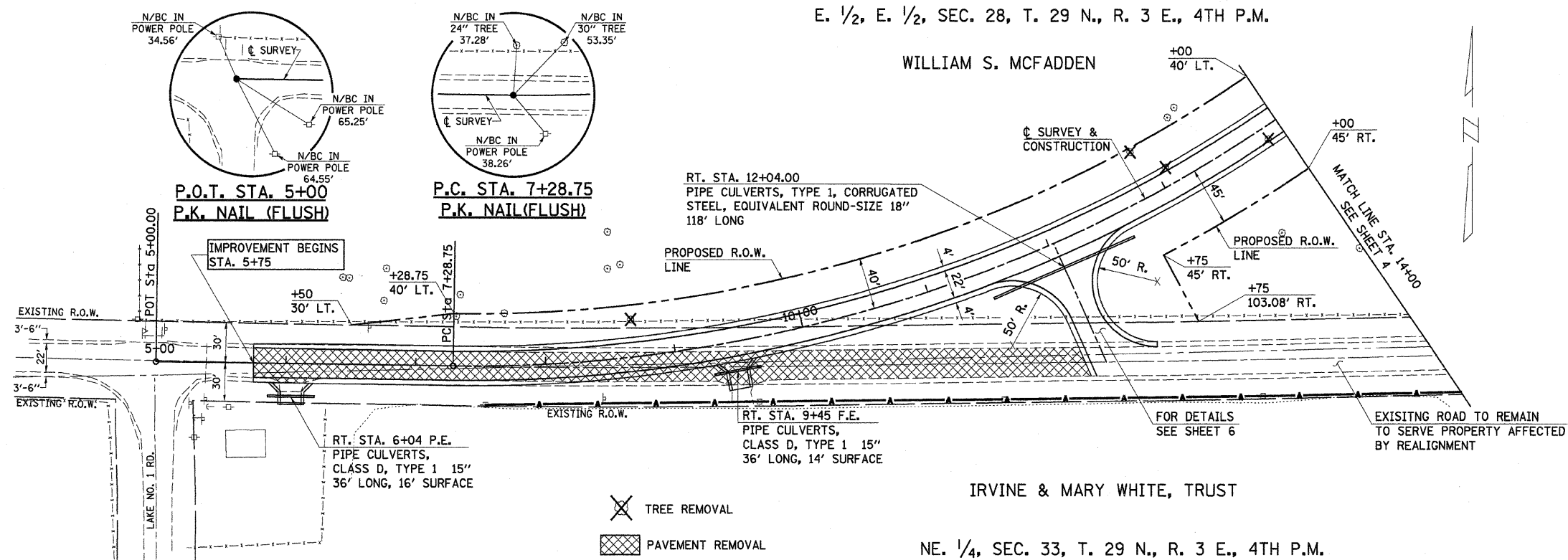
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-0012-00-BR	JODAVIESS	42	3	
STA. 5+00 TO STA. 14+00		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 85462				

PI STA. = 18+61.48
 $\Delta = 91^\circ 40' 46''$ (LT)
 $D = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $L = 1,760.12'$
 $E = 478.95'$
 P.C. STA. = 7+28.75
 P.T. STA. = 24+88.87
 S.E. = 0.06 FT./FT.
 TRANSITION
 STA. 5+96.75 TO STA. 7+72.75
 STA. 24+44.87 TO STA. 26+20.87

PLAN	SURVEYED	DATE
NOTE BOOK	BY	
NO.		

PROFILE	SURVEYED	DATE
NOTE BOOK	BY	
NO.		

PLOT DATE = 1/12/87
 FILE NAME = 4685APL03N
 PLOT SCALE = VARIES
 USER NAME = J. DAY, S. PRICE



ENTRANCES TO BE BUILT

RT. STA. 6+04, P.E. -5.8%, 20' ROADBED
 RT. STA. 9+45, F.E. +5.85%, 18' ROADBED
 RT. STA. 12+04 SEE SHEET 6 FOR DETAILS

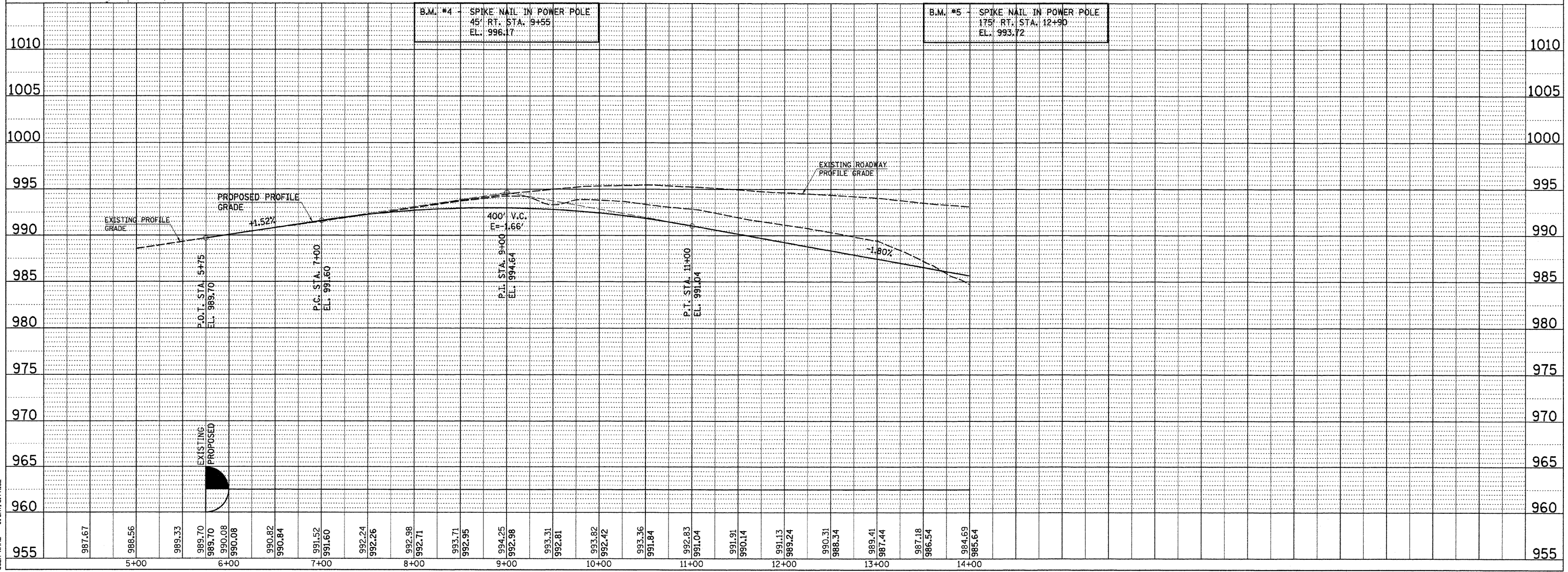
QUANTITIES INCLUDED IN THOSE LISTED

PIPES TO BE REMOVED

RT. STA. 6+04, 22' LONG
 QUANTITIES INCLUDED IN "EARTH EXCAVATION".

FOR FENCING SCHEDULES SEE SHEET 7.

IRVINE & MARY WHITE, TRUST
 NE. 1/4, SEC. 33, T. 29 N., R. 3 E., 4TH P.M.



B.M. #4 SPIKE NAIL IN POWER POLE
 45' RT. STA. 9+55
 EL. 996.17

B.M. #5 SPIKE NAIL IN POWER POLE
 175' RT. STA. 12+90
 EL. 993.72

955	987.67	5+00	989.33	6+00	990.82	7+00	992.24	8+00	993.71	9+00	994.25	10+00	995.36	11+00	996.83	12+00	998.34	13+00	999.41	14+00	1000.18	1001.69	1003.18	1004.69	1006.18	1007.69	1009.18	1010.69
-----	--------	------	--------	------	--------	------	--------	------	--------	------	--------	-------	--------	-------	--------	-------	--------	-------	--------	-------	---------	---------	---------	---------	---------	---------	---------	---------

E. 1/2, E. 1/2, SEC. 28, T. 29 N., R. 3 E., 4TH P.M.

WILLIAM S. MCFADDEN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JODAVIESS		42	4
STA. 14+00 TO STA. 22+00				
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 85462				

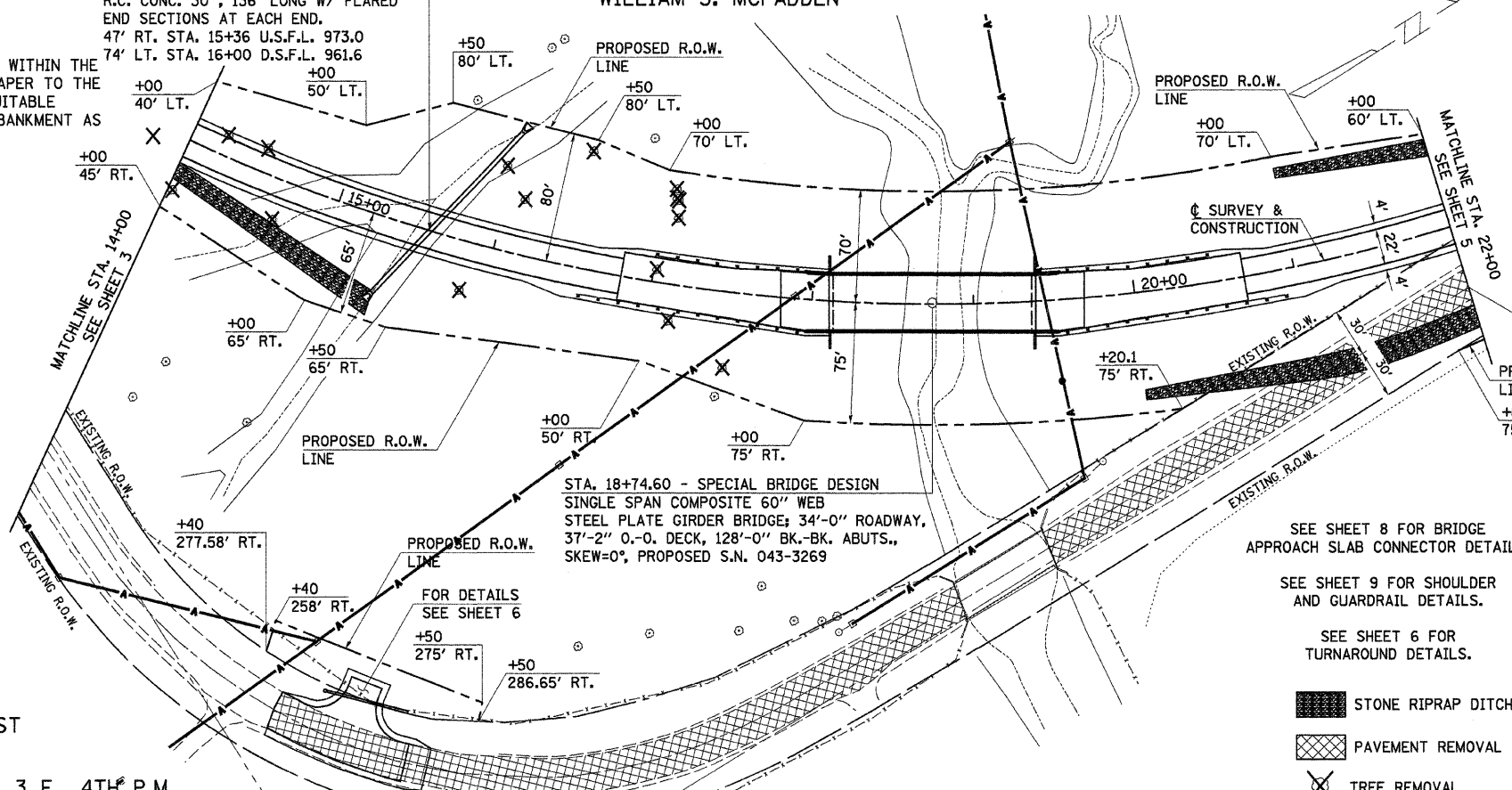
CHANNEL EXCAVATION

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 = 365 CU. YD.

A.R. STA. 15+59 PIPE CULVERTS, TYPE 3
R.C. CONC. 30", 136' LONG W/ FLARED
END SECTIONS AT EACH END.
47' RT. STA. 15+36 U.S.F.L. 973.0
74' LT. STA. 16+00 D.S.F.L. 961.6

PI STA. = 18+61.48
Δ = 91° 40' 46" (LT)
D = 5° 12' 31"
R = 1,100.00'
T = 1,132.73'
L = 1,760.12'
E = 478.95'
P.C. STA. = 7+28.75
P.T. STA. = 24+88.87
S.E. = 0.06 FT./FT.
TRANSITION
STA. 5+96.75 TO STA. 7+72.75
STA. 24+44.87 TO STA. 26+20.87



STA. 18+74.60 - SPECIAL BRIDGE DESIGN
SINGLE SPAN COMPOSITE 60" WEB
STEEL PLATE GIRDER BRIDGE, 34'-0" ROADWAY,
37'-2" O.-O. DECK, 128'-0" BK.-BK. ABUTS.,
SKEW=0°, PROPOSED S.N. 043-3269

SEE SHEET 8 FOR BRIDGE
APPROACH SLAB CONNECTOR DETAILS.
SEE SHEET 9 FOR SHOULDER
AND GUARDRAIL DETAILS.
SEE SHEET 6 FOR
TURNAROUND DETAILS.

- STONE RIPRAP DITCH
- PAVEMENT REMOVAL
- TREE REMOVAL

EXISTING S.N. 043-3001
±167' RIGHT STA. 19+10
2 SPAN R. C. SLAB BRIDGE
24'-6" O.-O. DECK, 64'-0" BK.-BK.
ABUTS., SKEW=9°30'
REMOVAL OF EXISTING STRUCTURES = 1 EACH

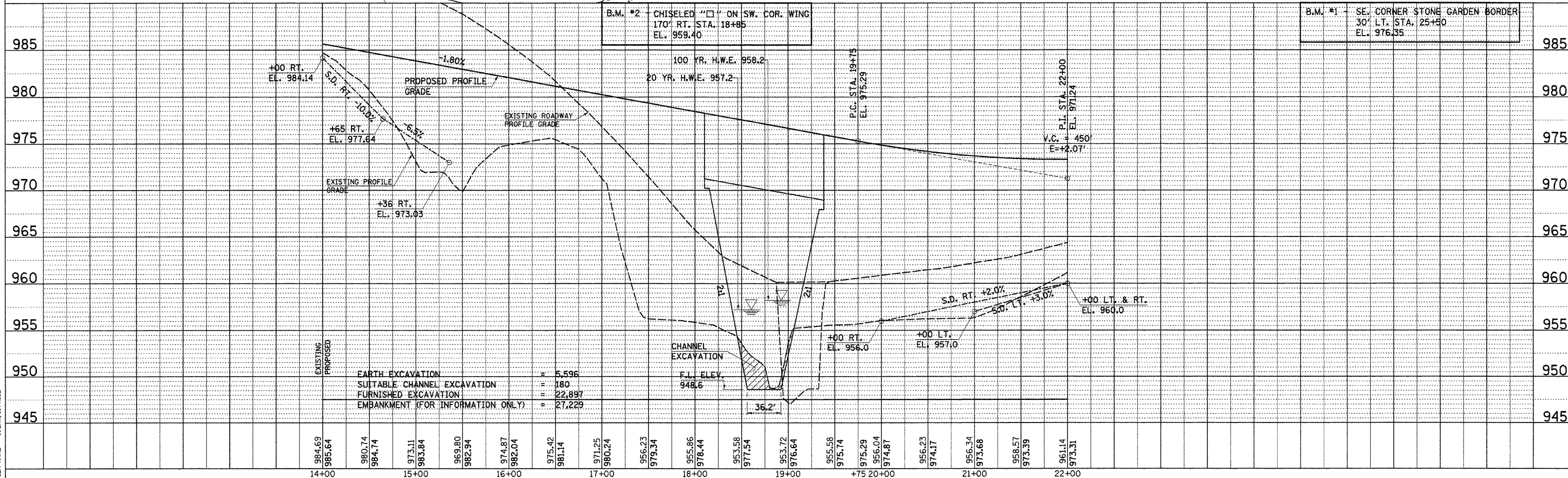
UTILITIES
COM ED
TOM STUTZMAN 630-437-2236
VERIZON NORTH, INC.
MARY RUTH WILLIS 309-827-1617
MCLEOD USA
MARK MILLS 217-876-7194 EX. 240
MEDIACOM
DARIN W. DEAN 563-584-0589 EX. 114

WILLIAM S. MCFADDEN

IRVIN & MARY WHITE TRUST

E. 1/2, NE. 1/4, SEC. 33, T. 29 N., R. 3 E., 4TH P.M.

SW. 1/4, SEC. 27, T. 29 N., R. 3 E., 4TH P.M.



EXISTING	PROPOSED	
EARTH EXCAVATION	SUITABLE CHANNEL EXCAVATION	5,596
FURNISHED EXCAVATION		180
EMBANKMENT (FOR INFORMATION ONLY)		22,897
		27,229

B.M. #2 CHISELED "I" ON SW. COR. WING
170' RT. STA. 18+85
EL. 959.40

B.M. #1 SE. CORNER STONE GARDEN BORDER
30' LT. STA. 25+50
EL. 976.35

PLAN	SURVEYED	DATE
	PLOTTED	
	NOTED	
	FILED	
	NO. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	NOTED	
	FILED	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS OK'D	

PLOT DATE = 1/12/07
FILE NAME = 4685RIP2.DGN
PLOT SCALE = VARIES
USER NAME = J. DAY, S. PRICE

E. 1/2, E. 1/2, SEC. 28, T. 29 N., R. 3 E., 4TH P.M.
WILLIAM S. MCFADDEN

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JODAVIESS		42	5
STA. 22+00		TO STA. 27+50		
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 85462				

ENTRANCES TO BE BUILT

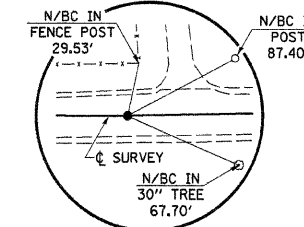
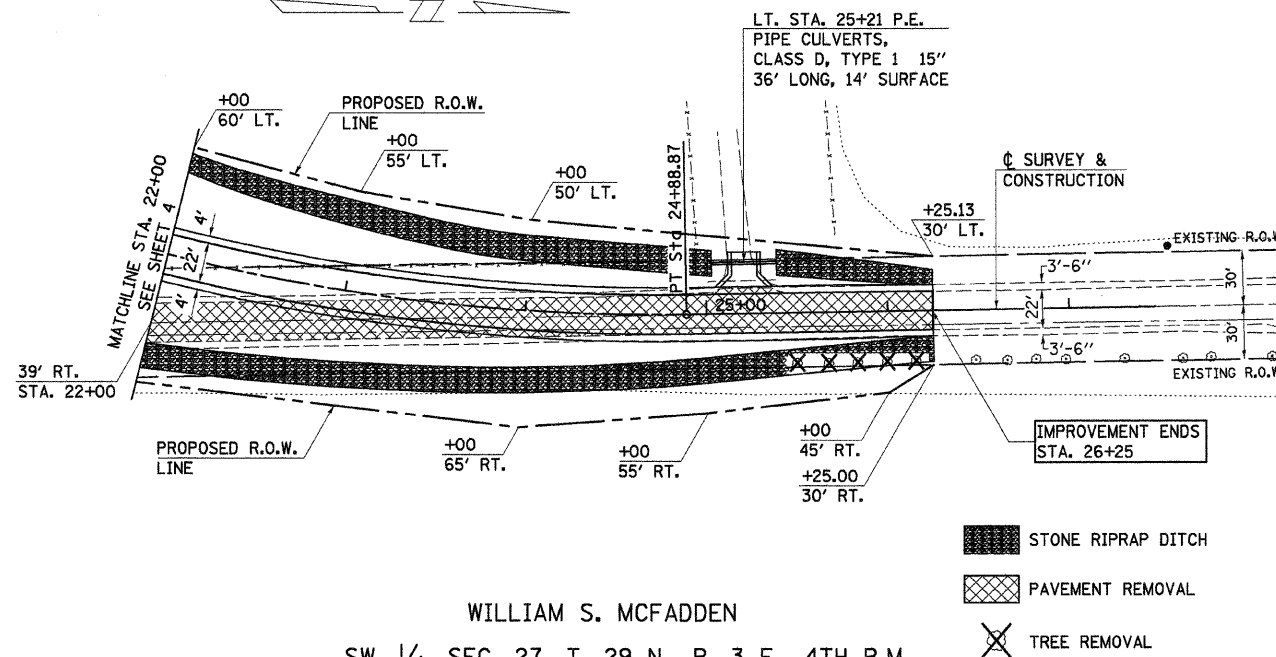
LT. STA. 25+21, P.E. -13.0%, 18' ROADBED
QUANTITIES INCLUDED IN THOSE LISTED

PIPES TO BE REMOVED

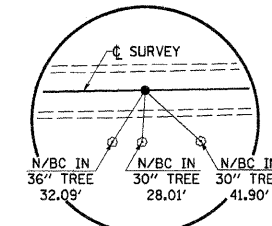
LT. STA. 25+21, 38' LONG
QUANTITIES INCLUDED IN "EARTH EXCAVATION".

FOR FENCING SCHEDULES SEE SHEET 7.

PI STA. = 18+61.48
Δ = 91° 40' 46" (LT)
D = 5° 12' 31"
R = 1,100.00'
T = 1,132.73'
L = 1,760.12'
E = 478.95'
P.C. STA. = 7+28.75
P.T. STA. = 24+88.87
S.E. = 0.06 FT./FT.
TRANSITION
STA. 5+96.75 TO STA. 7+72.75
STA. 24+44.87 TO STA. 26+20.87



P.T. STA. 24+88.87
P.K. NAIL (FLUSH)

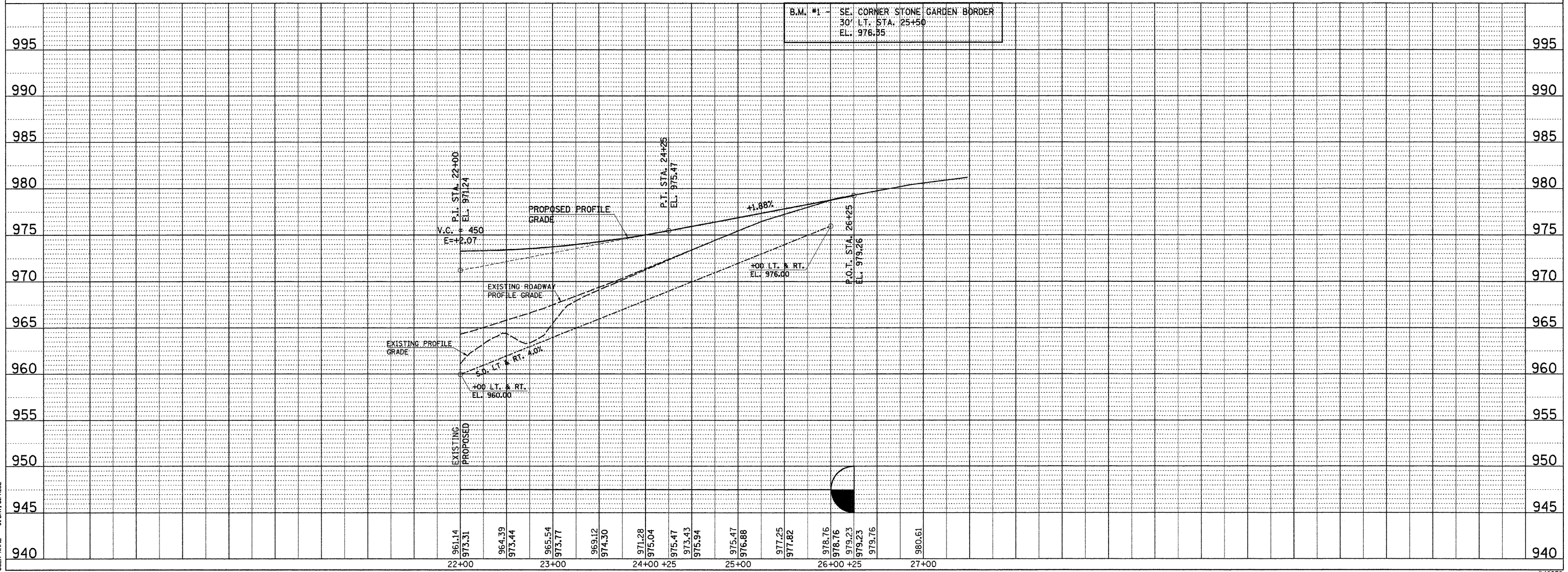


P.O.T. STA. 27+00
P.K. NAIL (FLUSH)

- STONE RIPRAP DITCH
- PAVEMENT REMOVAL
- TREE REMOVAL

WILLIAM S. MCFADDEN
SW. 1/4, SEC. 27, T. 29 N., R. 3 E., 4TH P.M.

B.M. #1 - SE CORNER STONE GARDEN BORDER
30' LT. STA. 25+50
EL. 976.85



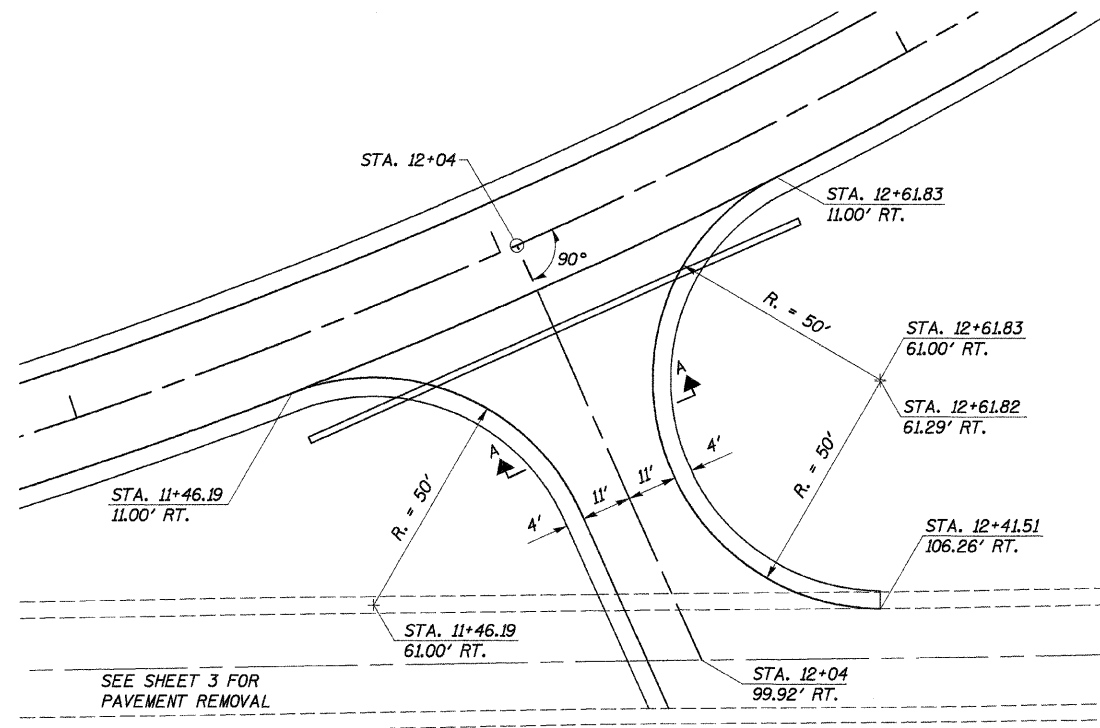
PLAN	SURVEYED	DATE
	PLOTTED	
	REVISION	
	BY	
	NO. OF WAY CHECKED	
	CADD FILE NAME	

PROFILE	SURVEYED	DATE
	PLOTTED	
	REVISION	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS OK'D	

PLOT DATE = 1/12/87
FILE NAME = 46859A.P3JDN
PLOT SCALE = VARIES
USER NAME = J. DRY, S.PRICE

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVISS	42	6
ILLINOIS				

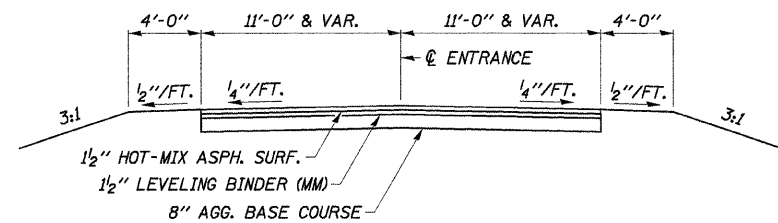
CONTRACT NO. 85462



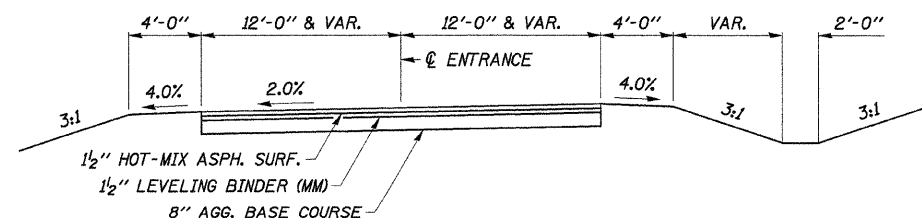
SEE SHEET 3 FOR PAVEMENT REMOVAL

ENTRANCE DETAIL

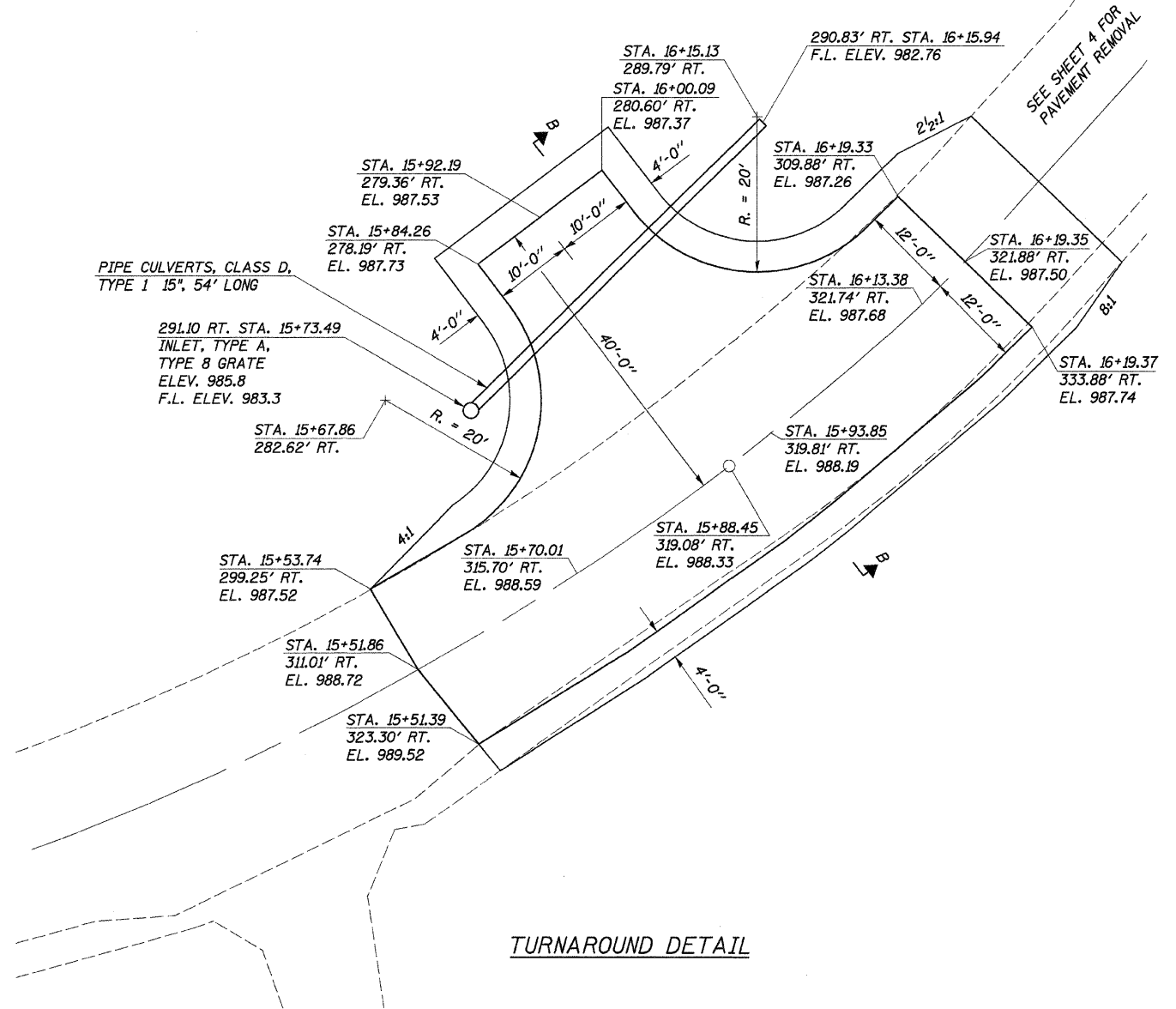
P.E. RT. STA. 12+04 (HOT-MIX ASPHALT SURFACE)



SECTION A-A



SECTION B-B



PIPE CULVERTS, CLASS D, TYPE I 15", 54' LONG

291.0 RT. STA. 15+73.49
INLET, TYPE A, TYPE 8 GRATE
ELEV. 985.8
F.L. ELEV. 983.3

TURNAROUND DETAIL

ENTRANCE & TURNAROUND DETAILS

SECTION 93-00112-00-BR
JoDAVISS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PROF. E. ROOPERS, E. ROCHELLE E. MOORE, W. SPRINGFIELD, IL

DRAWN: S.A.P.
DATE: 10/15/08

CHECKED: G.J.C.
DATE: 01/12/09

JOB NO.: 46859
FILE: ENT_TRND.DGN
DATE: 03/24/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVIESS	42	7

ILLINOIS
CONTRACT NO. 85462

FENCE (SPECIAL)

FENCE (SPECIAL): THIS WORK SHALL CONSIST OF CONSTRUCTING BARBED WIRE FENCING SUPPORTED ON WOOD AND METAL POSTS INCLUDING ACCESSORIES ACCORDING TO THE APPLICABLE PORTIONS OF SECTION 665 OF THE STANDARD SPECIFICATIONS AND STANDARD 665001. THE BARBED WIRE FENCE SHALL CONSIST OF SIX STRANDS OF BARBED WIRE PROPERLY SPACED. THE POST SHALL BE PROPORTIONED IN A RATIO OF ONE WOODEN POST FOR EVERY THREE METAL "T" POST.

METHOD OF MEASUREMENT: FENCE (SPECIAL) WILL BE MEASURED FOR PAYMENT IN FEET ALONG THE TOP OF THE FENCE FROM CENTER TO CENTER OF END POST.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "FENCE (SPECIAL)", WHICH PRICE SHALL INCLUDE ALL EXCAVATION AND BACK FILLING, EXCEPT EXCAVATION IN ROCK WHICH WILL BE PAID FOR ACCORDING TO SECTION 109.

LOCATION	QUANTITY
30' LT. STA. 6+50 TO 70' LT. STA. 18+00	= 1112 FOOT
70' LT. STA. 18+00 TO 28' LT. STA. 18+09	= 43 FOOT
28' LT. STA. 19+40 TO 70' LT. STA. 20+00	= 71 FOOT
70' LT. STA. 20+00 TO 44' LT. STA. 24+95	= 470 FOOT
103.08' RT. STA. 12+75 TO 45' RT. STA. 12+75	= 58 FOOT
45' RT. STA. 12+75 TO 75' RT. STA. 18+00	= 557 FOOT
75' RT. STA. 18+00 TO 30' RT. STA. 18+12	= 47 FOOT
103.08' RT. STA. 12+75 TO 277.58' RT. STA. 15+40	= 358 FOOT
277.58' RT. STA. 15+40 TO 258' RT. STA. 15+40	= 20 FOOT
258' RT. STA. 15+40 TO 275' RT. STA. 16+50	= 138 FOOT
275' RT. STA. 16+50 TO 312' RT. STA. 16+50	= 37 FOOT
328' RT. STA. 16+50 TO 456' RT. STA. 16+31.5	= 130 FOOT
30' RT. STA. 19+37 TO 117' RT. STA. 19+40	= 87 FOOT
117' RT. STA. 19+40 TO 181' RT. STA. 19+60	= 68 FOOT
TOTAL	= 3196 FOOT

FENCE REMOVAL

FENCE REMOVAL: THIS WORK WILL CONSIST OF THE REMOVAL AND DISPOSAL OF EXISTING FENCE REGARDLESS OF TYPE INCLUDING POSTS AT THE LOCATIONS SHOWN IN THE PLANS AND AS DIRECTED BY THE ENGINEER.

METHOD OF MEASUREMENT: FENCE REMOVAL WILL BE MEASURED FOR PAYMENT IN FEET FROM CENTER TO CENTER OF END POSTS.

BASIS OF PAYMENT: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR "FENCE REMOVAL".

LOCATION	QUANTITY
30' LT. STA. 6+50 TO 168' RT. STA. 18+79	= 1449 FOOT
456' RT. STA. 16+31.50 TO 207' RT. STA. 18+91	= 421 FOOT
170' RT. STA. 19+47 TO 181' RT. STA. 19+60	= 19 FOOT
124' RT. STA. 19+40 TO 30' LT. STA. 24+95	= 593 FOOT
30' LT. STA. 24+95 TO 44' LT. STA. 24+95	= 14 FOOT
TOTAL	= 2496 FOOT

FURNISHING AND INSTALLING STEEL GATE ASSEMBLY

FURNISHING AND INSTALLING STEEL GATE ASSEMBLY: THIS ITEM SHALL CONSIST OF ALL MATERIAL, LABOR AND EQUIPMENT NECESSARY TO INSTALL A STEEL GATE ASSEMBLY THAT WILL CONSIST OF ONE 16' LONG GATE AT THE LOCATION SHOWN IN THE PLANS AND AS FOLLOWS:

THE STEEL GATE ASSEMBLY SHALL MEET ASTM A53 OR ASTM A106 GRADE B SPECIFICATIONS.

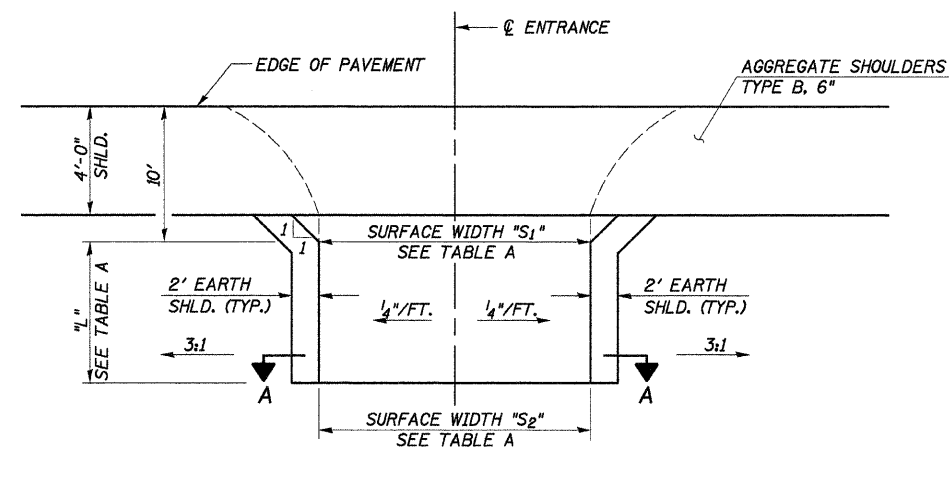
THE GATE SHALL HAVE 6 RAILS, SHALL BE POWDER COATED GREEN OR OTHER APPROVED COLOR AND SHALL BE 50" TALL. IT SHALL BE CONSTRUCTED WITH 2", 16 GAUGE STEEL PIPE.

ALL HORIZONTAL TUBES OF THE GATE SHALL BE WELDED COMPLETELY AROUND THE JOINTS TO THE GATE FRAME AND SHALL HAVE A MINIMUM OF TWO "Z" BRACES.

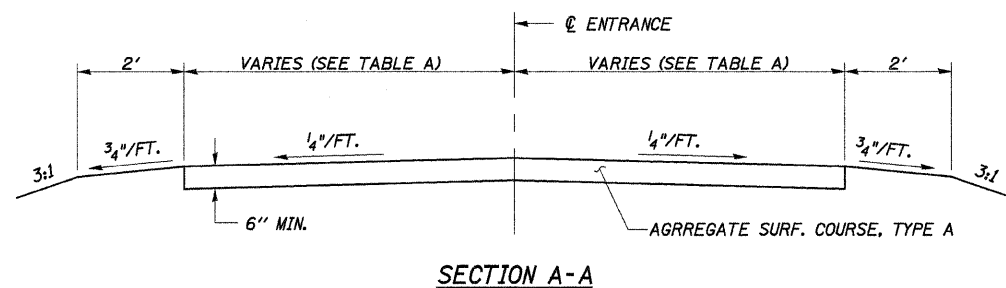
THE COST OF ALL THE WORK INCLUDED SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FURNISHING AND INSTALLING STEEL GATE ASSEMBLY" WHICH PRICE SHALL INCLUDE ALL HINGING AND LATCHING HARDWARE FOR THE GATE ASSEMBLY.

LOCATION	QUANTITY
312' RT. STA. 16+50 TO 328' RT. STA. 16+50	= 1 EACH
TOTAL	= 1 EACH

ENTRANCE DETAILS AND FENCING DETAILS
SECTION 93-00112-00-BR
JoDAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60



TYPICAL FIELD & PRIVATE ENTRANCE DETAIL
(AGGREGATE SURFACE)



SECTION A-A

TABLE A - ENTRANCE QUANTITIES

LOCATION	TYPE	PROPOSED SURFACE	SURFACE WIDTH- "S1" (FT.)	SURFACE WIDTH- "S2" (FT.)	ENTRANCE LENGTH- "L" (FT.)	AGG. SURF. CSE., TYPE A (TON)
RT. STA. 6+04	AGGREGATE	AGGREGATE	16	16	10	11
RT. STA. 9+45	AGGREGATE	AGGREGATE	14	14	15	13
LT. STA. 25+21	AGGREGATE	AGGREGATE	14	14	13	11
TOTAL						35

GENERAL NOTES:

THE PLAN DETAILS AND SCHEDULES SHOULD BE USED AS A GUIDE FOR THE ENGINEER TO IMPLEMENT THE FINAL DESIGN. THE ENGINEER MAY DECIDE TO SALVAGE PORTIONS OF THE EXISTING ENTRANCE PAVEMENT STRUCTURE; THEREFORE, REDUCING PAY ITEM QUANTITIES. NO ADDITIONAL PAYMENT WILL BE ALLOWED FOR THIS REDUCTION IN QUANTITIES.

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 62709

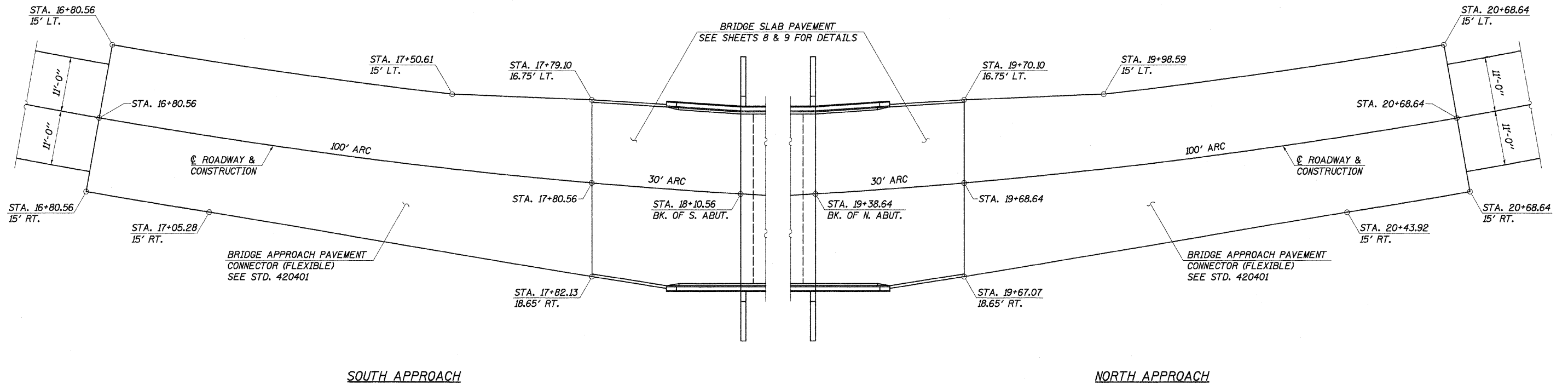
DRAWN: S.A.P.
DATE: 03/26/07

CHECKED: G.J.C.
DATE: 05/05/08

JOB NO.: 46859
FILE: ENT-FENCE.DGN
DATE: 06/01/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVISS	42	8
ILLINOIS				

CONTRACT NO. 85462



SOUTH APPROACH

NORTH APPROACH

APPROACH PAVEMENT CONNECTOR DETAILS
SEE SHEET 9 FOR SHOULDER AND GUARDRAIL DETAILS

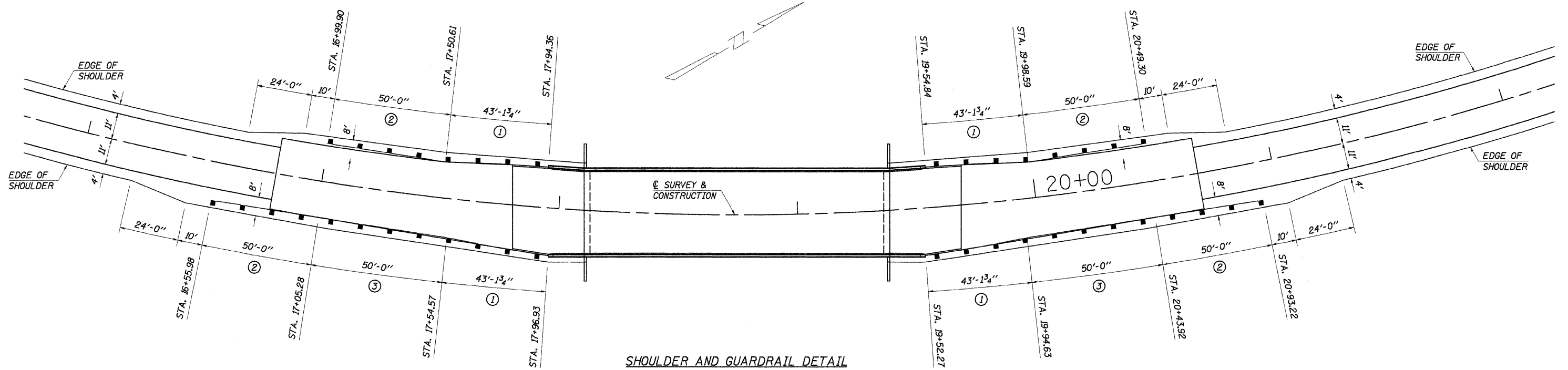
PI STA. = 18+61.48
 $\Delta = 91^\circ 40' 46''$ (LT)
 $D = 5^\circ 12' 31''$
 $R = 1,100.00'$
 $T = 1,132.73'$
 $L = 1,760.12'$
 $E = 478.95'$
P.C. STA. = 7+28.75
P.T. STA. = 24+88.87
S.E. = 0.06 FT./FT.
TRANSITION
STA. 5+96.75 TO STA. 7+72.75
STA. 24+44.87 TO STA. 26+20.87

APPROACH PAVEMENT CONNECTOR SCHEDULE		
LOCATION		BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
		SQ YD
SOUTH APPROACH		349.5
NORTH APPROACH		349.5
TOTAL		699

APPROACH PAVEMENT CONNECTOR DETAILS

SECTION 93-00112-00-BR
JoDAVISS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVIESS	42	9
ILLINOIS		CONTRACT NO. 85462		



SHOULDER AND GUARDRAIL DETAIL

STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

15' RT. STA. 17+05.28 TO 16.14' RT. STA. 17+54.57 = 50 FOOT
 16.14' RT. STA. 19+94.63 TO 15' RT. STA. 20+43.92 = 50 FOOT
 TOTAL = 100 FOOT

TRAFFIC BARRIER TERMINAL, TYPE 6

15' LT. STA. 17+50.61 TO LT. PARAPET = 1 EACH
 16.14' RT. STA. 17+54.57 TO RT. PARAPET = 1 EACH
 RT. PARAPET TO 16.14' RT. STA. 19+94.63 = 1 EACH
 LT. PARAPET TO 15' LT. STA. 19+98.59 = 1 EACH
 TOTAL = 4 EACH

TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)

16' RT. STA. 16+55.98 TO 15' RT. STA. 17+05.28 = 1 EACH
 16' LT. STA. 16+99.90 TO 15' LT. STA. 17+50.61 = 1 EACH
 15' LT. STA. 19+98.59 TO 16' LT. STA. 20+49.30 = 1 EACH
 15' RT. STA. 20+43.92 TO 16' RT. STA. 20+93.22 = 1 EACH
 TOTAL = 4 EACH

BARRIER WALL MARKERS, TYPE B

LT. & RT. STA. 18+00 = 2 EACH
 LT. STA. 18+25.82 = 1 EACH
 RT. STA. 18+27.34 = 1 EACH
 LT. STA. 18+58.32 = 1 EACH
 RT. STA. 18+58.83 = 1 EACH
 RT. STA. 18+90.34 = 1 EACH
 LT. STA. 18+90.85 = 1 EACH
 RT. STA. 19+21.86 = 1 EACH
 LT. STA. 19+23.38 = 1 EACH
 LT. & RT. STA. 19+50 = 2 EACH
 TOTAL = 12 EACH

GUARDRAIL MARKERS, TYPE A

RT. STA. 17+05.28 = 1 EACH
 LT. STA. 17+50.61 = 1 EACH
 RT. STA. 17+54.57 = 1 EACH
 RT. STA. 19+94.63 = 1 EACH
 LT. STA. 19+98.59 = 1 EACH
 RT. STA. 20+43.92 = 1 EACH
 TOTAL = 6 EACH

LEGEND

NOTE: ALL DIMENSIONS REFER TO FRONT FACE OF PROPOSED RAILING.

- ① TRAFFIC BARRIER TERMINAL, TYPE 6
- ② TRAFFIC BARRIER TERMINAL, TYPE 1, SPECIAL (TANGENT)
- ③ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS

SHOULDER AND GUARDRAIL DETAIL

SECTION 93-00112-00-BR
 JoDAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
PROFESSOR, R. ROOFER, P.E. ROCHELLE E. ROYCE, P.E. SPRINGFIELD, IL

DRAWN: S.A.P.
 DATE: 02/16/07

CHECKED: G.J.C.
 DATE: 05/05/08

JOB NO.: 46859
 FILE: 46859SHLD.DGN
 DATE: 03/24/09

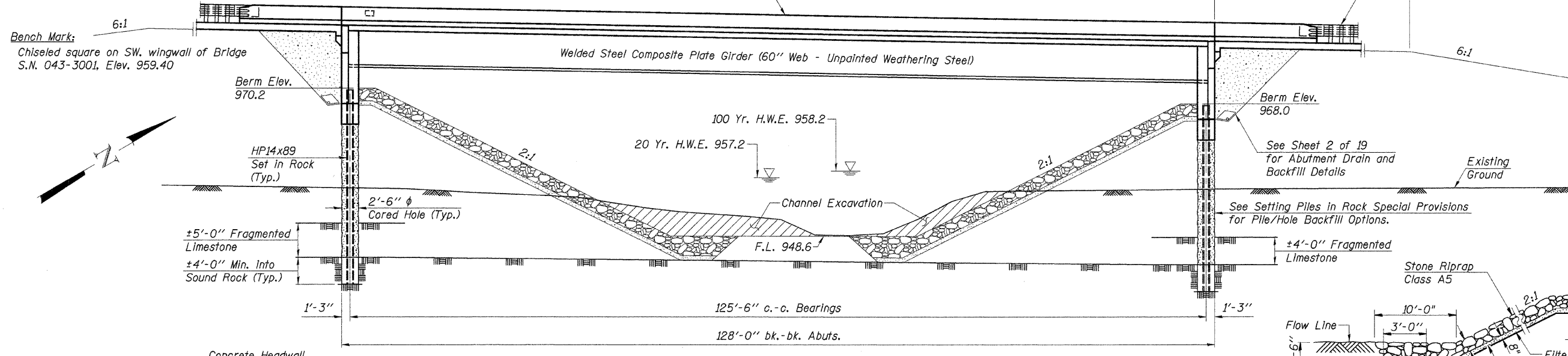
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	10
ILLINOIS			CONTRACT NO. 85462	

Sheet 1 of 19

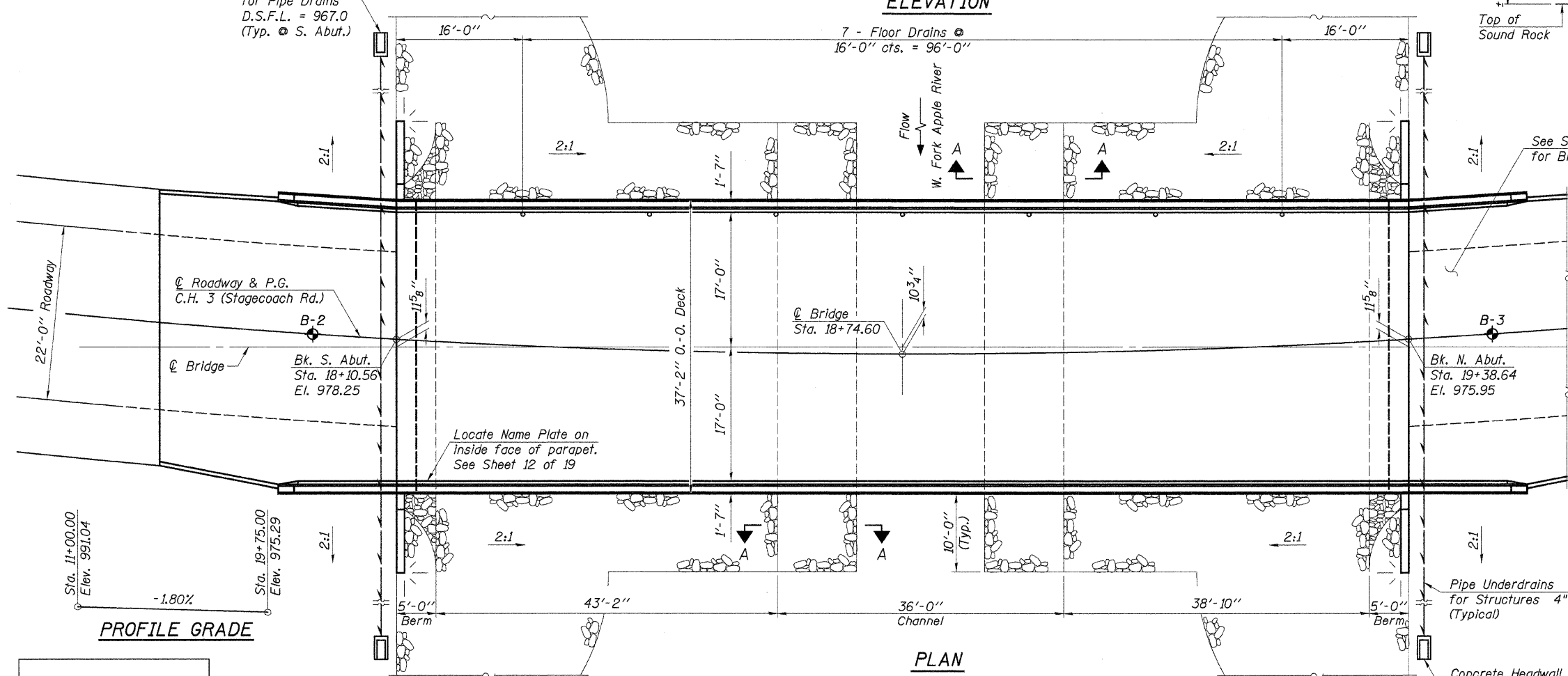
Existing Structure:

S.N. 043-3001: Two span reinforced concrete slab on closed concrete abutments and a solid wall concrete pier. Structure length is 64.0 feet back to back of abutments, and bridge width is 24.4 feet out to out of deck. Skewed 9°30'. To be removed by contractor. No salvage.

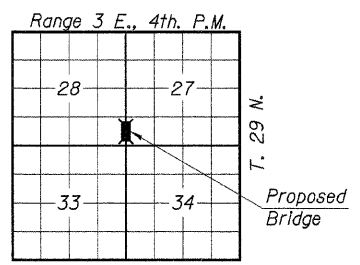
Bench Mark:
Chiseled square on SW. wingwall of Bridge S.N. 043-3001, Elev. 959.40



ELEVATION



PLAN

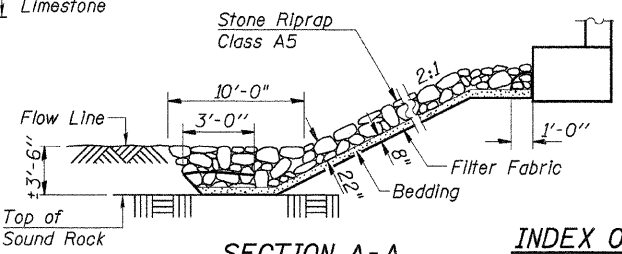


LOCATION PLAN

INDEX OF SHEETS

1. General Plan and Elevation
2. General Notes, Total Bill of Materials & Miscellaneous Details
- 3.-5. Top of Slab Elevations
- 6.-7. Top of Approach Slab Elevations
- 8.-9. Bridge Approach Slab Details
- 10.-12. Superstructure Details
- 13.-14. Structural Steel Plan and Details
15. Anchor Bolt Details
- 16.-17. Abutment Details
18. Steel Pile Details
19. Bar Splicer Details

SECTION A-A

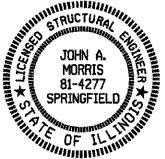


WATERWAY INFORMATION

Drainage Area	10.73 Sq. Mi.
Existing Opening (20 Yr.)	542 Sq. Ft.
Required Opening (20 Yr.)	457 Sq. Ft.
Proposed Opening (20 Yr.)	457 Sq. Ft.
Design Discharge (20 Yr.)	1889 C.F.S.
Created Head (20 Yr.)	0.0 Ft.
100 Year Discharge	2897 C.F.S.
100 Yr. Created Head	0.2 Ft.

"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
ILLINOIS STRUCTURAL NO. 4277
3-27-09 (Expires 11/30/10)



GENERAL PLAN & ELEVATION

SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

DESIGN STRESSES

$f'_c = 3,500$ p.s.i. (Concrete)
 $f_y = 60,000$ p.s.i. (Reinforcement)
 $f_y = 50,000$ p.s.i. (Structural Steel, M270W, Gr. 50)

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.03
Site Coefficient (s) = 1.0

DESIGN SPECIFICATIONS

2002 AASHTO

LOADING HS20-44

50#/Sq. Ft. allowance for Future Wearing Surface.

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCKFORD, IL SPRINGFIELD, IL	JOB NO.: 46859 FILE: GPE.DGN DATE: 03/24/09
----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------	---------------------------------------------------

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	11
		ILLINOIS		

Sheet 2 of 19 CONTRACT NO. 85462

GENERAL NOTES

See Proposal Booklet for Boring Data.

Fasteners shall be AASHTO M164 Type 3, mechanically galvanized bolts Bolts 3/4 in. φ, holes 13/16 in. φ, unless otherwise noted.

Calculated weight of Structural Steel = 159,610 Pounds

All structural steel shall be AASHTO M 270 Grade 50W.

No field welding is permitted except as specified in the contract documents.

Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions

Reinforcement bars designated (E) shall be epoxy coated.

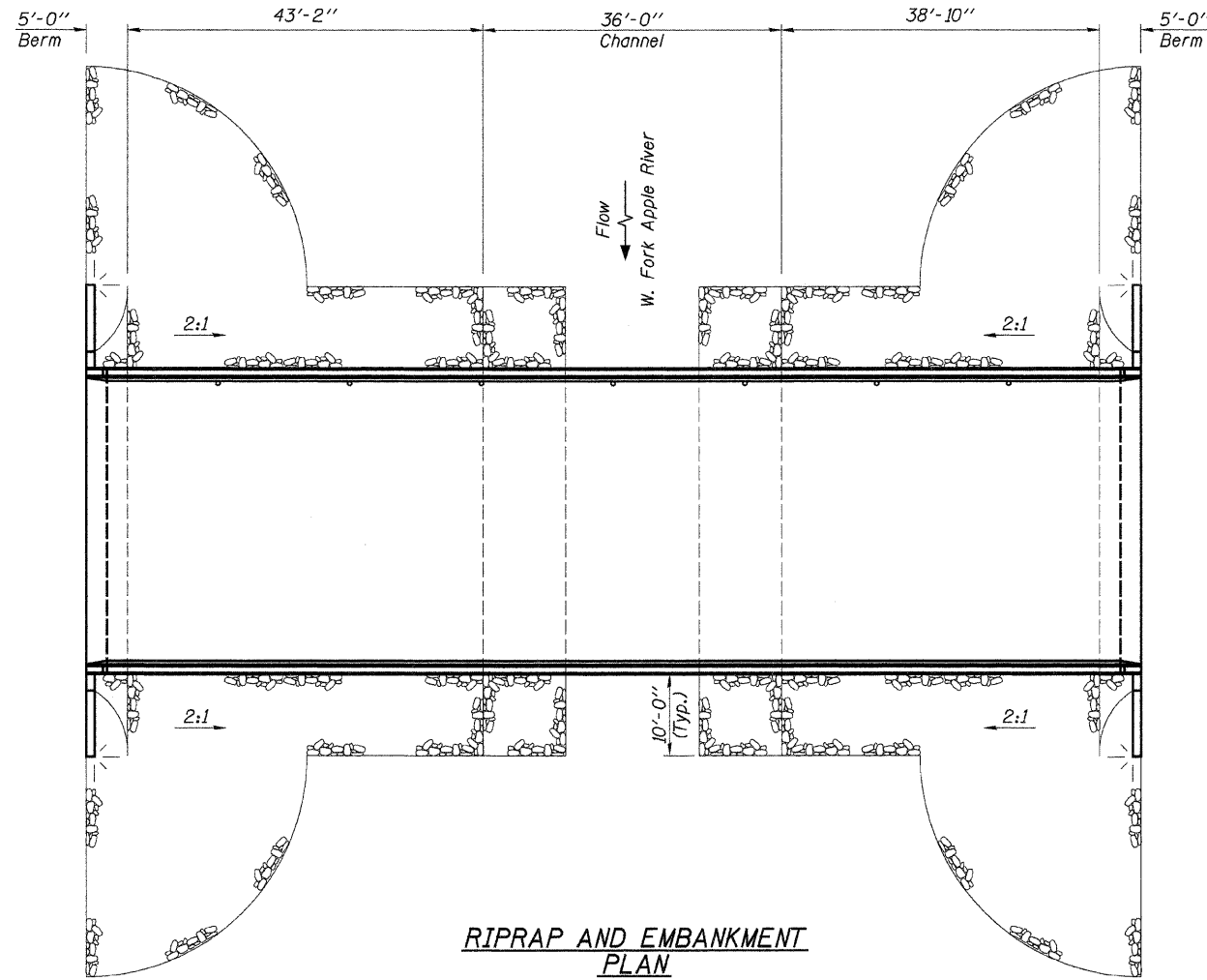
If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations as required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 3 inches. Those areas shall be primed in the shop with a Department approved zinc rich primer. No field painting shall be required. All structural steel shall be cleaned as specified in the Special Provision for "Surface Preparation and Painting Requirements for Weathering Steel".

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

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

Slipforming of the parapets is not allowed.



RIPRAP AND EMBANKMENT PLAN

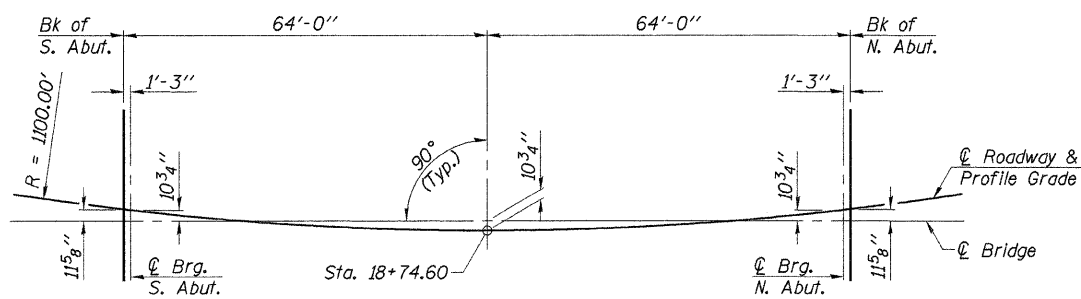
WEST FORK APPLE RIVER
BUILT 200_ BY
JO DAVIESS COUNTY
SEC. 93-00112-00-BR
F.A. PROJ. BRS-067(107)
STR. NO. 043-3269
LOADING HS20

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Concrete Structures	Cu. Yd.	22.0	44.2	66.2
Concrete Superstructure	Cu. Yd.	309.8		309.8
Reinforcement Bars, Epoxy Coated	Pound	68,450	7,920	76,370
Name Plates	Each		1	1
Furnishing Steel Piles HP14x89	Foot		285	285
Setting Piles in Rock	Each		10	10
Stone Riprap, Class A5	Ton		1,204	1,204
Filter Fabric	Sq. Yd.		1,045	1,045
Concrete Encasement	Cu. Yd.		5.6	5.6
Structure Exoavation	Cu. Yd.		136	136
Removal of Existing Structures	Each		1	1
Protective Coat	Sq. Yd.	853		853
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	1,700		1,700
Bridge Deck Grooving	Sq. Yd.	674		674
Bar Splicers	Each	68		68
Floor Drains	Each	7		7
Pipe Underdrains for Structures 4"	Foot	168		168
Geocomposite Wall Drain	Sq. Yd.		110	110
Porous Granular Embankment (Special)	Cu. Yd.		196	196
Concrete Headwalls for Pipe Drains	Each		4	4



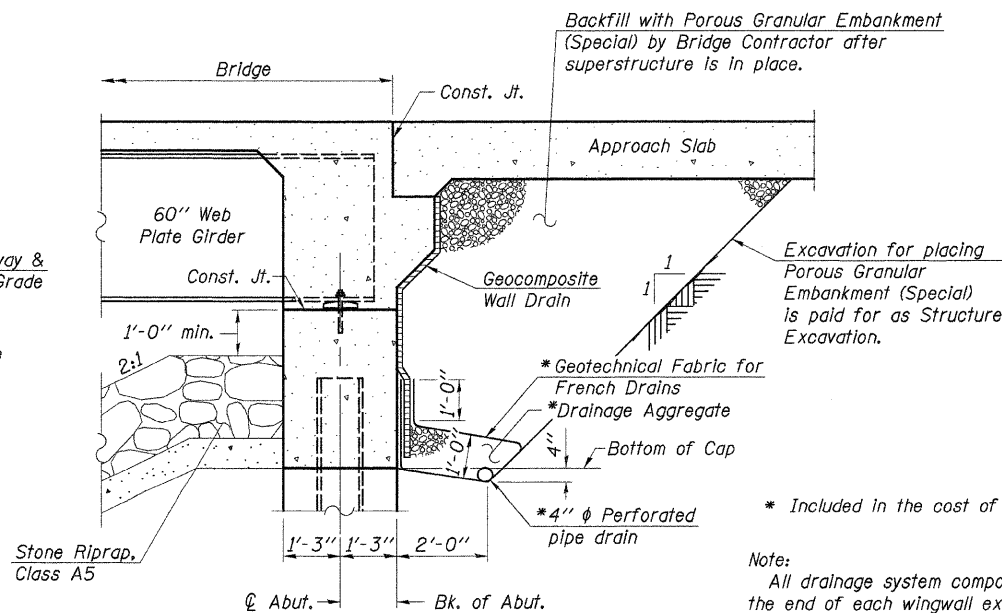
OFFSET SKETCH

CURVE DATA

P.I. Sta. 18+61.48
 $\Delta = 91^{\circ}40'46''$
 $D = 05^{\circ}12'31''$
 $R = 1,100.00'$
 $T = 1,132.73'$
 $L = 1,760.12'$
 $E = 478.95'$

P.C. Sta. 7+28.75
P.T. Sta. 24+88.87
S.E. 0.06 Ft./Ft.
S.E. attained from Sta. 5+96.75 to Sta. 7+72.75
S.E. removed from Sta. 24+44.87 to Sta. 26+20.87

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



SECTION THRU INTEGRAL ABUTMENT

* Included in the cost of Pipe Underdrains for Structures.

Note:

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 and the pipe ends shall be shielded against rodent intrusion. (See Highway Standard 60110.)

GENERAL NOTES AND DETAILS

SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

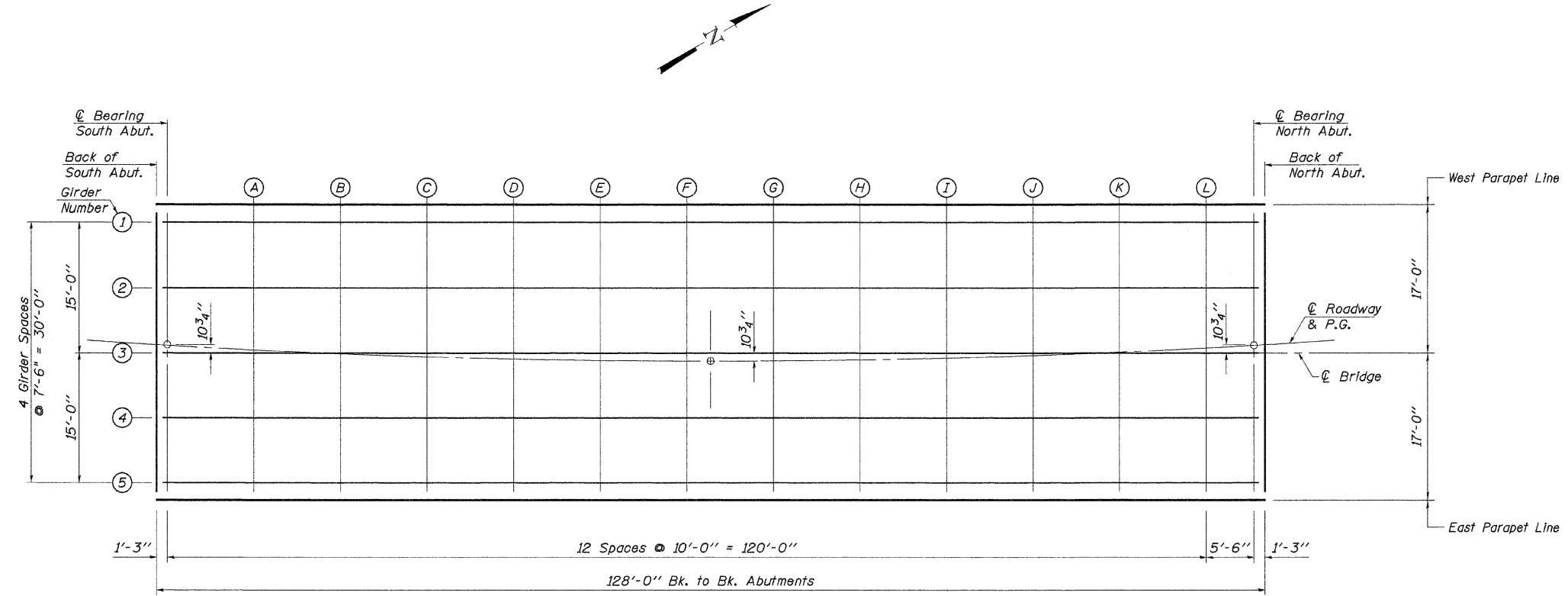
4440 ASH GROVE
SPRINGFIELD, IL 62711
(217) 793-8600
www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PREPARED BY: BOB COOPER, P.E. REGISTERED PROFESSIONAL ENGINEER, NO. 0011010

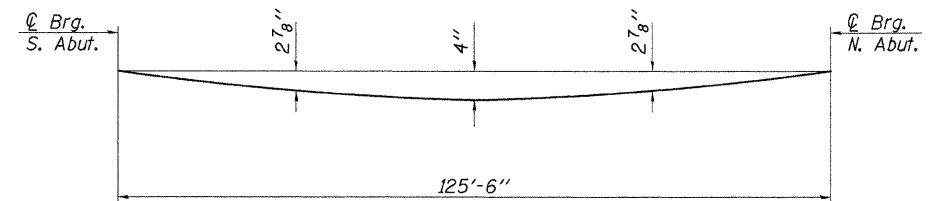
JOB NO.: 46859
FILE: NOTES.DGN
DATE: 03/24/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	12
ILLINOIS		CONTRACT NO. 85462		

Sheet 3 of 19



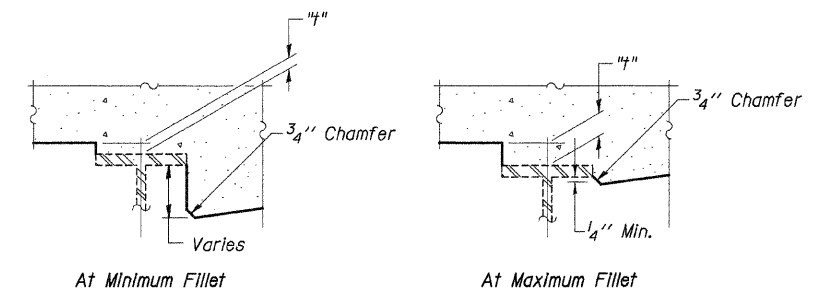
PLAN



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only)

Note: The above deflections are not to be used in the field if the Engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 & 5 of 19.



To determine "h": After all structural steel has been erected, elevations of the top flanges of the girders shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on Sheet 4 & 5 of 19, minus slab thickness, equals the fillet heights "h" above top of girder flange.

FILLET HEIGHTS

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

TOP OF SLAB ELEVATIONS

SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8800 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS <small>PERU, IL ROCKFORD, IL ROCKFORD, IL MONROE, WI SPRINGFIELD, IL</small>	JOB NO.: 46859 FILE: SLAB.DGN DATE: 03/24/09
----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------

WEST PARAPET LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1809.671	-16.005	977.307	977.307
⊕ Brg. S. Abut	1810.884	-16.078	977.279	977.279
A	1821.020	-16.611	977.065	977.140
B	1831.166	-17.052	976.856	977.006
C	1841.319	-17.400	976.652	976.877
D	1851.477	-17.657	976.454	976.716
E	1861.640	-17.821	976.261	976.555
F	1871.805	-17.892	976.074	976.400
G	1881.970	-17.872	975.892	976.204
H	1892.134	-17.758	975.716	975.996
I	1902.295	-17.553	975.546	975.794
J	1912.451	-17.255	975.381	975.572
K	1922.601	-16.865	975.221	975.337
L	1932.743	-16.382	975.068	975.109
⊕ Brg. N. Abut.	1938.316	-16.078	974.986	974.986
Bk. N. Abut.	1939.583	-16.005	974.967	974.967

GIRDER #1

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1809.737	-14.008	977.424	977.424
⊕ Brg. S. Abut	1811.001	-14.081	977.397	977.397
A	1821.119	-14.613	977.183	977.258
B	1831.246	-15.053	976.974	977.124
C	1841.380	-15.401	976.771	976.996
D	1851.520	-15.657	976.573	976.835
E	1861.664	-15.821	976.381	976.675
F	1871.810	-15.892	976.194	976.519
G	1881.956	-15.872	976.012	976.324
H	1892.101	-15.759	975.837	976.116
I	1902.244	-15.553	975.666	975.914
J	1912.381	-15.256	975.502	975.693
K	1922.512	-14.867	975.343	975.459
L	1932.636	-14.385	975.189	975.231
⊕ Brg. N. Abut.	1938.199	-14.081	975.108	975.108
Bk. N. Abut.	1939.463	-14.008	975.089	975.089

GIRDER #2

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1810.182	-6.521	977.865	977.865
⊕ Brg. S. Abut	1811.437	-6.594	977.839	977.839
A	1821.486	-7.122	977.626	977.701
B	1831.543	-7.559	977.419	977.568
C	1841.608	-7.905	977.217	977.441
D	1851.678	-8.159	977.020	977.283
E	1861.753	-8.321	976.829	977.123
F	1871.829	-8.392	976.644	976.969
G	1881.906	-8.372	976.463	976.775
H	1891.981	-8.260	976.289	976.568
I	1902.054	-8.056	976.120	976.368
J	1912.122	-7.760	975.956	976.147
K	1922.184	-7.374	975.798	975.914
L	1932.238	-6.896	975.646	975.687
⊕ Brg. N. Abut.	1937.763	-6.594	975.565	975.565
Bk. N. Abut.	1939.018	-6.521	975.546	975.546

GIRDER #3

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1810.620	0.966	978.307	978.307
⊕ Brg. S. Abut	1811.867	0.894	978.280	978.280
A	1821.847	0.369	978.069	978.144
B	1831.837	-0.065	977.863	978.013
C	1841.833	-0.408	977.663	977.887
D	1851.835	-0.660	977.467	977.730
E	1861.840	-0.822	977.278	977.571
F	1871.848	-0.892	977.093	977.419
G	1881.856	-0.872	976.914	977.226
H	1891.863	-0.760	976.741	977.021
I	1901.867	-0.558	976.573	976.821
J	1911.866	-0.265	976.411	976.602
K	1921.859	0.119	976.254	976.370
L	1931.845	0.594	976.102	976.144
⊕ Brg. N. Abut.	1937.333	0.894	976.022	976.022
Bk. N. Abut.	1938.580	0.966	976.004	976.004

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

TOP OF SLAB ELEVATIONS

SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
P.O. BOX 1000, SPRINGFIELD, IL 62711

JOB NO.: 46859
FILE: SLAB2.DGN
DATE: 03/24/09

GIRDER #4

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1811.053	8.453	978.748	978.748
⊕ Brg. S. Abut	1812.291	8.382	978.722	978.722
A	1822.204	7.861	978.512	978.587
B	1832.126	7.430	978.308	978.457
C	1842.055	7.089	978.108	978.333
D	1851.989	6.838	977.914	978.177
E	1861.927	6.678	977.726	978.020
F	1871.866	6.608	977.543	977.868
G	1881.807	6.628	977.365	977.676
H	1891.746	6.739	977.193	977.473
I	1901.682	6.940	977.026	977.274
J	1911.614	7.231	976.865	977.056
K	1921.540	7.612	976.709	976.825
L	1931.458	8.084	976.559	976.600
⊕ Brg. N. Abut.	1936.909	8.382	976.479	976.479
Bk. N. Abut.	1938.147	8.453	976.461	976.461

GIRDER #5

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1811.480	15.941	979.190	979.190
⊕ Brg. S. Abut	1812.710	15.870	979.163	979.163
A	1822.557	15.352	978.955	979.030
B	1832.412	14.924	978.752	978.902
C	1842.274	14.585	978.554	978.779
D	1852.141	14.336	978.362	978.624
E	1862.012	14.177	978.174	978.468
F	1871.885	14.108	977.993	978.318
G	1881.758	14.128	977.816	978.127
H	1891.630	14.238	977.645	977.925
I	1901.500	14.437	977.479	977.727
J	1911.365	14.727	977.319	977.510
K	1921.224	15.106	977.164	977.280
L	1931.076	15.574	977.015	977.056
⊕ Brg. N. Abut.	1936.490	15.870	976.935	976.935
Bk. N. Abut.	1937.720	15.941	976.917	976.917

EAST PARAPET LINE

LOCATION	STATION	OFFSET	THEORETICAL GRADE ELEVATIONS	THEORETICAL GRADE ELEVATIONS ADJUSTED FOR DEAD LOAD DEFLECTION
Bk. S. Abut.	1811.592	17.938	979.308	979.308
⊕ Brg. S. Abut	1812.820	17.867	979.281	979.281
A	1822.650	17.350	979.073	979.148
B	1832.487	16.923	978.871	979.020
C	1842.332	16.585	978.673	978.898
D	1852.181	16.336	978.481	978.743
E	1862.035	16.177	978.294	978.588
F	1871.890	16.108	978.112	978.438
G	1881.745	16.128	977.936	978.248
H	1891.600	16.237	977.765	978.045
I	1901.451	16.437	977.600	977.848
J	1911.299	16.726	977.440	977.631
K	1921.140	17.104	977.286	977.402
L	1930.975	17.572	977.137	977.178
⊕ Brg. N. Abut.	1936.380	17.867	977.057	977.057
Bk. N. Abut.	1937.608	17.938	977.039	977.039

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

TOP OF SLAB ELEVATIONS

SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 FREEPORT, IL ROSEMONT, IL ROCKFORD, IL SPRINGFIELD, IL

JOB NO.: 46859
 FILE: SLAB3.DGN
 DATE: 03/24/09

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of Slab	17+79.140	-16.260	977.840
A	17+89.310	-16.400	977.648
End Parapet	17+94.360	-16.440	977.555
B	17+99.520	-16.040	977.486
Bk. S. Abut.	18+09.620	-16.000	977.307

WEST EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
End of Slab	17+79.617	-11.000	978.147
A	17+89.752	-11.000	977.964
End Parapet	17+94.785	-11.000	977.874
B	17+99.879	-11.000	977.782
Bk. S. Abut.	18+09.916	-11.000	977.602

☉ ROADWAY & PROFILE GRADE

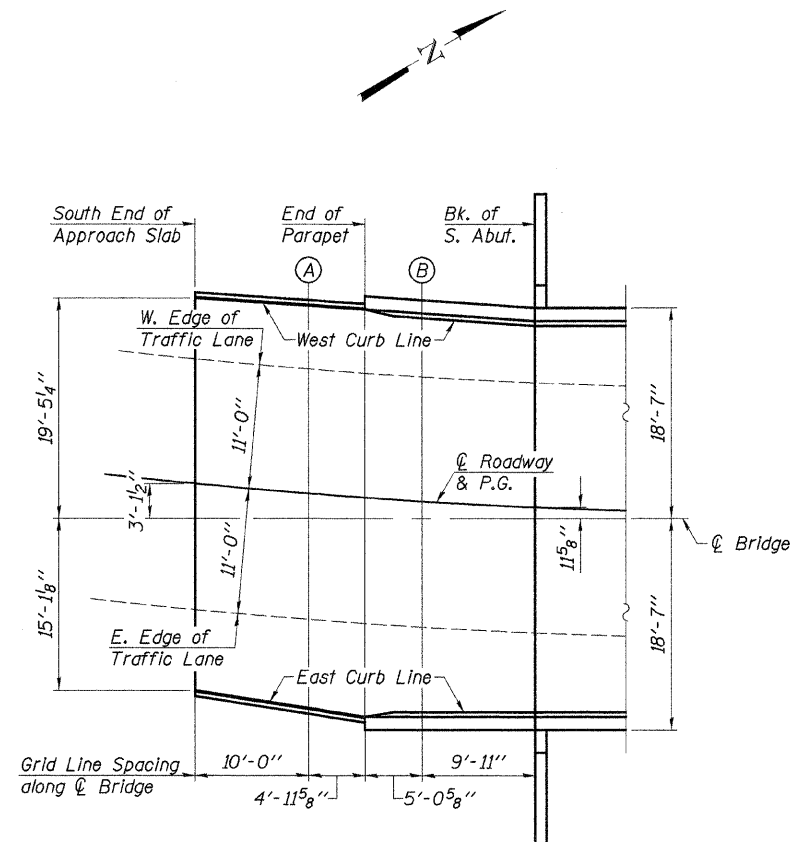
Location	Station	Offset	Theoretical Grade Elevations
End of Slab	17+80.569	0.000	978.790
A	17+90.602	0.000	978.609
End Parapet	17+95.584	0.000	978.519
B	18+00.628	0.000	978.429
Bk. S. Abut.	18+10.564	0.000	978.250

EAST EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
End of Slab	17+81.502	11.000	979.433
A	17+91.435	11.000	979.254
End Parapet	17+96.368	11.000	979.165
B	18+01.361	11.000	979.076
Bk. S. Abut.	18+11.199	11.000	978.898

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
End of Slab	17+82.090	18.150	979.851
A	17+92.010	18.900	979.718
End Parapet	17+96.930	19.310	979.654
B	18+01.840	18.550	979.520
Bk. S. Abut.	18+11.590	17.940	979.308



PLAN

Note: Top of Slab Elevations & Offsets at Curb Lines shown in tables are given at the inside face of curb.

See Sheets 8 & 9 of 19 for Details of Bridge Approach Slab

**TOP OF SOUTH BRIDGE APPROACH
SLAB ELEVATIONS
SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60**

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

E-AS

11-1-06

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PREPARED BY: ROBERT E. ROSS/ILL. E. ROSS/ILL. SPRINGFIELD, IL

JOB NO.: 46859
FILE: APPROACH.DGN
DATE: 03/24/09

WEST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	19+39.580	-16.000	974.968
A	19+49.680	-16.040	974.783
End Parapet	19+54.840	-16.440	974.665
B	19+59.890	-16.400	974.578
End of Slab	19+70.060	-16.260	974.403

WEST EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	19+39.284	-11.000	975.273
A	19+49.321	-11.000	975.092
End Parapet	19+54.416	-11.000	975.001
B	19+59.448	-11.000	974.910
End of Slab	19+69.583	-11.000	974.728

© ROADWAY & PROFILE GRADE

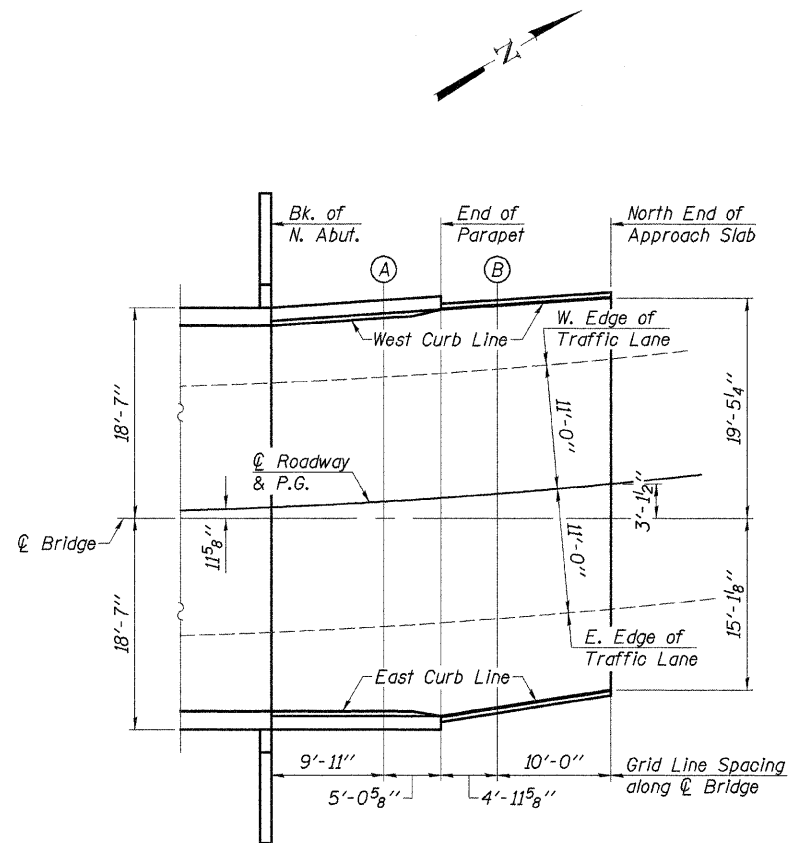
Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	19+38.636	0.000	975.945
A	19+48.572	0.000	975.766
End Parapet	19+53.616	0.000	975.675
B	19+58.598	0.000	975.585
End of Slab	19+68.631	0.000	975.405

EAST EDGE OF TRAFFIC LANE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	19+38.001	11.000	976.616
A	19+47.839	11.000	976.439
End Parapet	19+52.832	11.000	976.349
B	19+57.765	11.000	976.260
End of Slab	19+67.698	11.000	976.081

EAST CURB LINE

Location	Station	Offset	Theoretical Grade Elevations
Bk. N. Abut.	19+37.610	17.940	977.039
A	19+47.360	18.550	976.900
End Parapet	19+52.270	19.310	976.858
B	19+57.190	18.900	976.745
End of Slab	19+67.110	18.150	976.521



PLAN

Note: Top of Slab Elevations & Offsets at Curb Lines shown in tables are given at the inside face of curb.

See Sheets 8 & 9 of 19 for Details of Bridge Approach Slab

**TOP OF NORTH BRIDGE APPROACH
SLAB ELEVATIONS**
SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

E-AS

11-1-06

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
P.O. BOX 1000, SPRINGFIELD, IL 62763

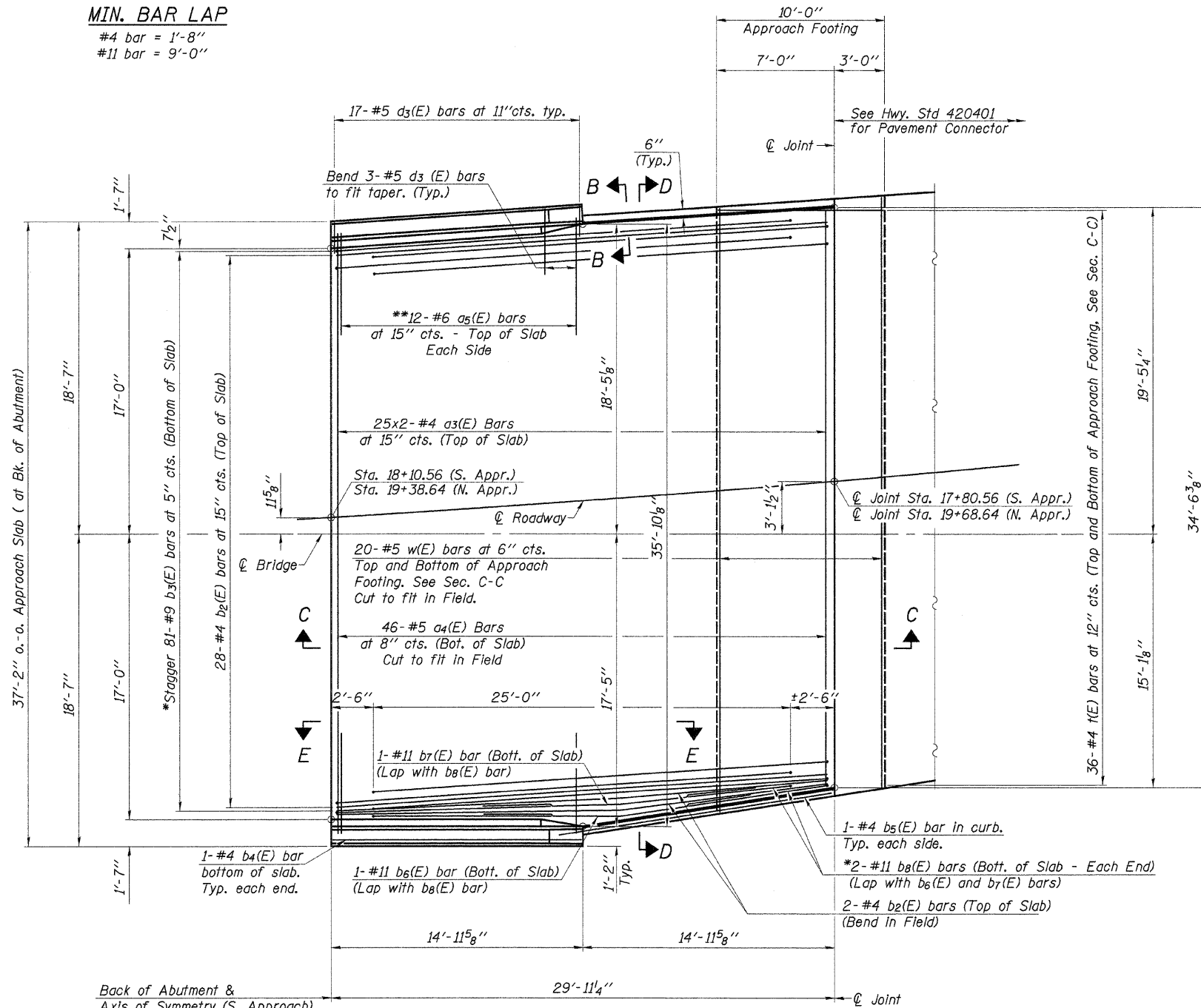
JOB NO.: 46859
FILE: APPROACH2.DGN
DATE: 03/24/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	17
ILLINOIS		CONTRACT NO. 85462		

Sheet 8 of 19

MIN. BAR LAP

#4 bar = 1'-8"
#11 bar = 9'-0"



PLAN

(North Approach Slab Shown)

* Tilt #9 b₃(E) bars as required to maintain clearance.
** Alternate with a₃(E) bars, typ. ea. parapet.

Note:

See Sheet 6 & 7 of 19 for additional Approach Slab dimensions and station information. Spacings shown for b₂(E) and b₃(E) bars are at right angles to \varnothing bridge.

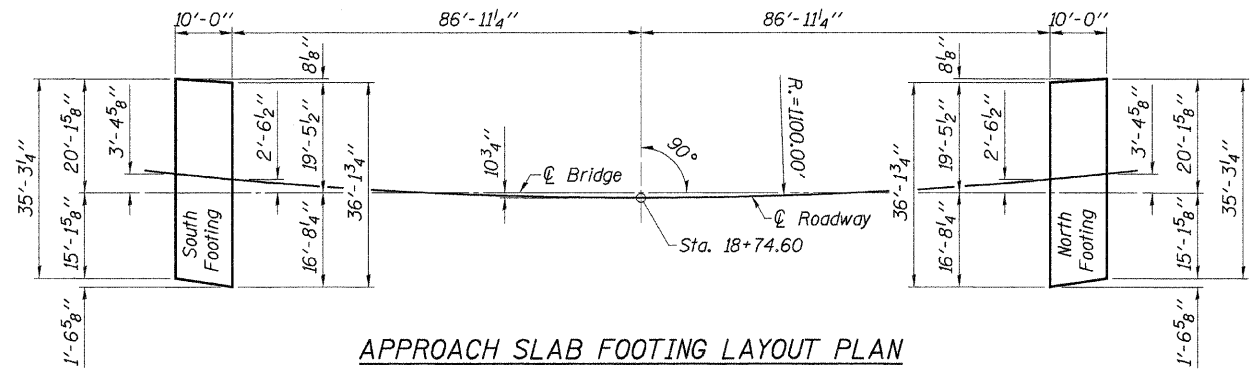
DESIGNED	A.R.K.
CHECKED	J.A.M.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

BA-0

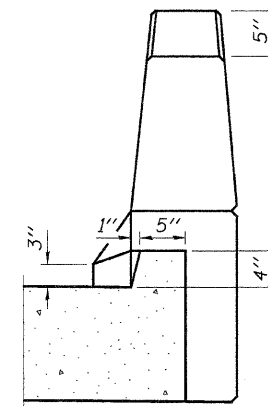
10-31-08

Notes:

See sheet 9 of 19 for Sections C-C & D-D and View E-E. a₃(E), a₄(E), and w(E) bar spacings measured perpendicular to \varnothing Rdwy. Bar indicates thus 25x2-#4 etc. indicates 25 lines of bars with 2 lengths per line.



APPROACH SLAB FOOTING LAYOUT PLAN



VIEW B-B

BRIDGE APPROACH SLAB DETAILS

SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PROJECT: E. ROCHFORD & ROCKFORD, IL. IRRIGATION SYSTEMS

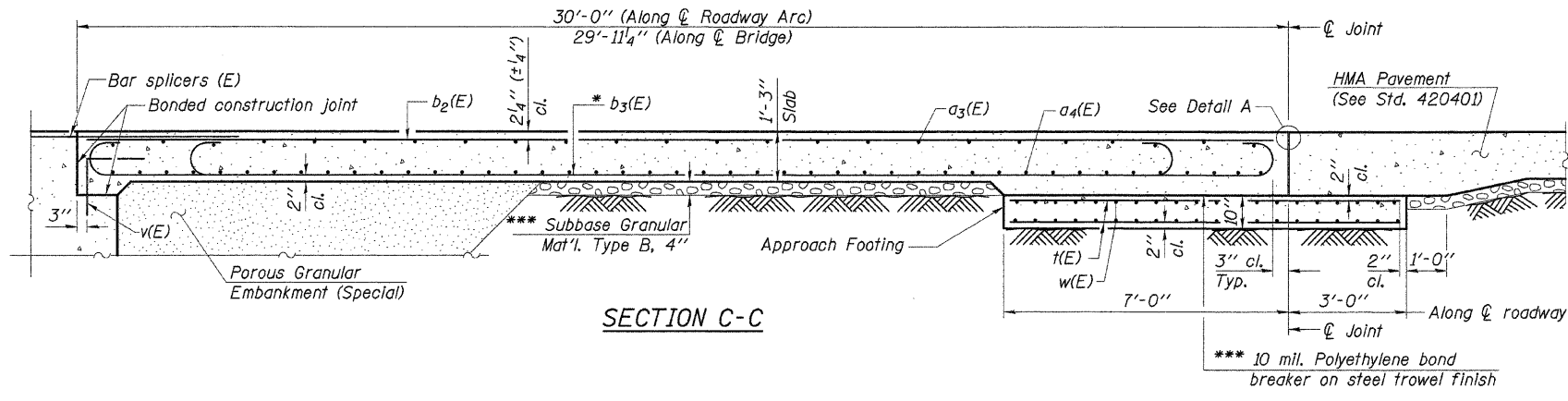
JOB NO.: 46859
FILE: APPRCH-DTL.DGN
DATE: 03/24/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	18
		ILLINOIS		

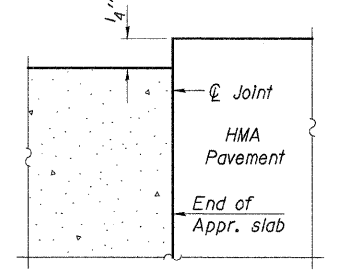
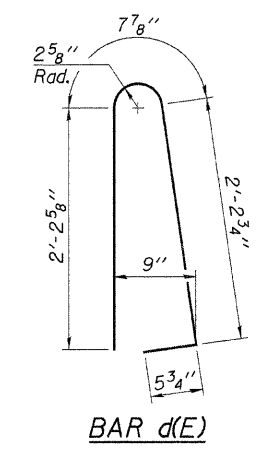
Sheet 9 of 19 CONTRACT NO. 85462

Notes:

See sheet 8 of 19 for Detail A and View B-B.
 Approach slab and parapet concrete shall be paid for as Concrete Superstructure.
 Approach footing concrete shall be paid for as Concrete Structures.
 Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
 For v(E) bar details, see sheet 12 of 19.
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
 For bar splicer details, see sheet 19 of 19.
 Cost of excavation for approach footing included with Concrete Structures.
 For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 19.
 See Sheet 12 of 19 for Parapet Joint Details.
 Slipforming of Parapet is not allowed.



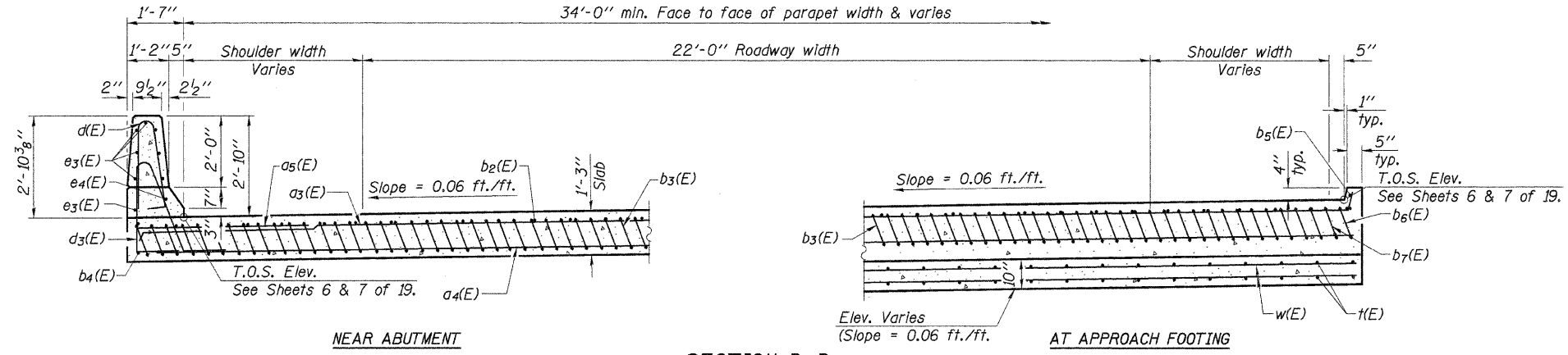
SECTION C-C



DETAIL A

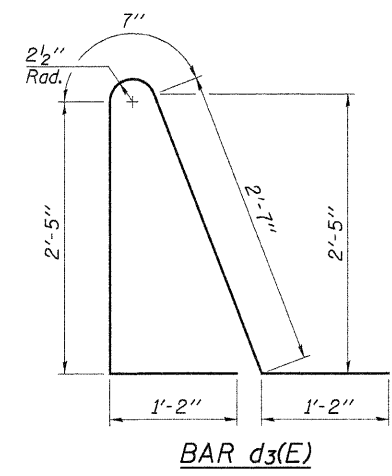
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a3(E)	100	#4	19'-1"	—
a4(E)	92	#5	36'-6"	—
a5(E)	48	#6	6'-0"	—
b2(E)	56	#4	29'-8"	—
b3(E)	162	#9	29'-9"	—
b4(E)	4	#4	14'-8"	—
b5(E)	4	#4	15'-8"	—
b6(E)	2	#11	26'-9"	—
b7(E)	2	#11	26'-9"	—
b8(E)	8	#11	11'-3"	—
d(E)	68	#5	5'-7"	—
d3(E)	68	#5	7'-11"	—
e3(E)	32	#4	14'-8"	—
e4(E)	4	#8	14'-8"	—
f(E)	144	#4	9'-8"	—
w(E)	80	#5	35'-10"	—
Concrete Superstructure			Cu. Yd.	115.8
Concrete Structures			Cu. Yd.	22.0
Reinforcement Bars, Epoxy Coated			Pound	29,180
Bridge Deck Grooving			Sq. Yd.	218
Protective Coat			Sq. Yd.	263

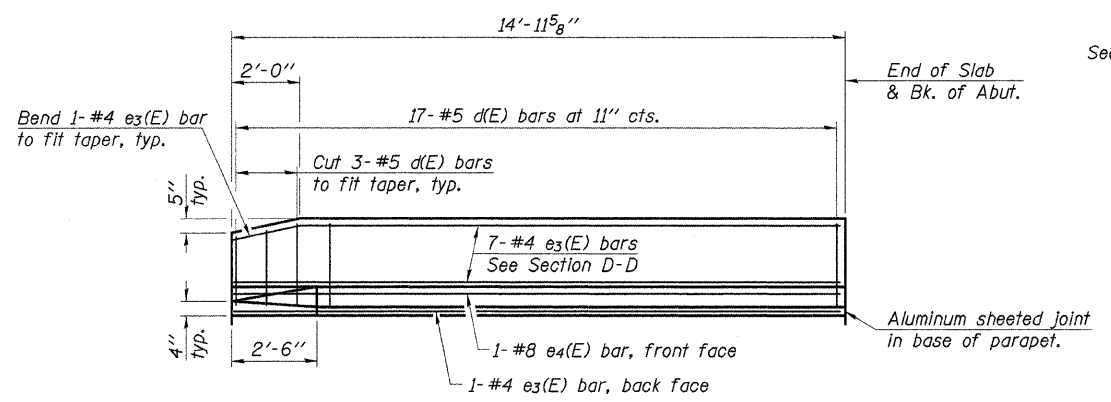


SECTION D-D

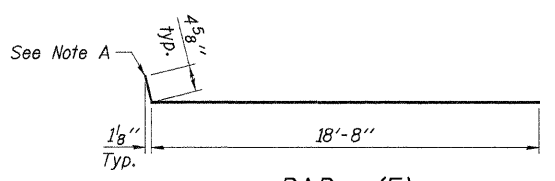
* Tilt #9 b3(E) & #11 b8(E) bars as required to maintain clearance. (See Plan for dimensions not shown)
 *** Cost Included with Concrete Superstructure.



BAR d3(E)

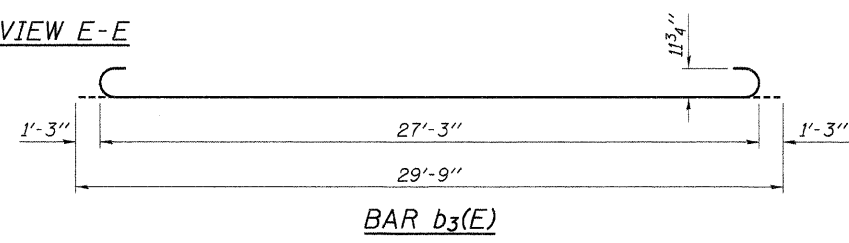


VIEW E-E

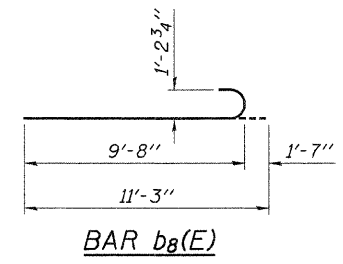


BAR a3(E)

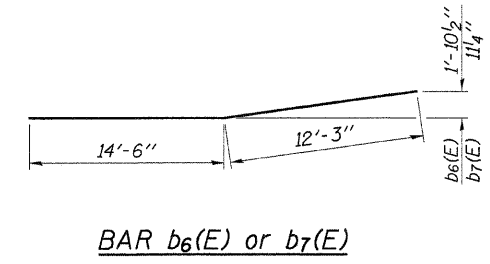
Note A: Turn Vertical Leg of a3(E) bars down into slab when placing within limits of parapet



BAR b3(E)



BAR b8(E)



BAR b6(E) or b7(E)

DESIGNED	A.R.K.
CHECKED	J.A.M.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.
BA-0	

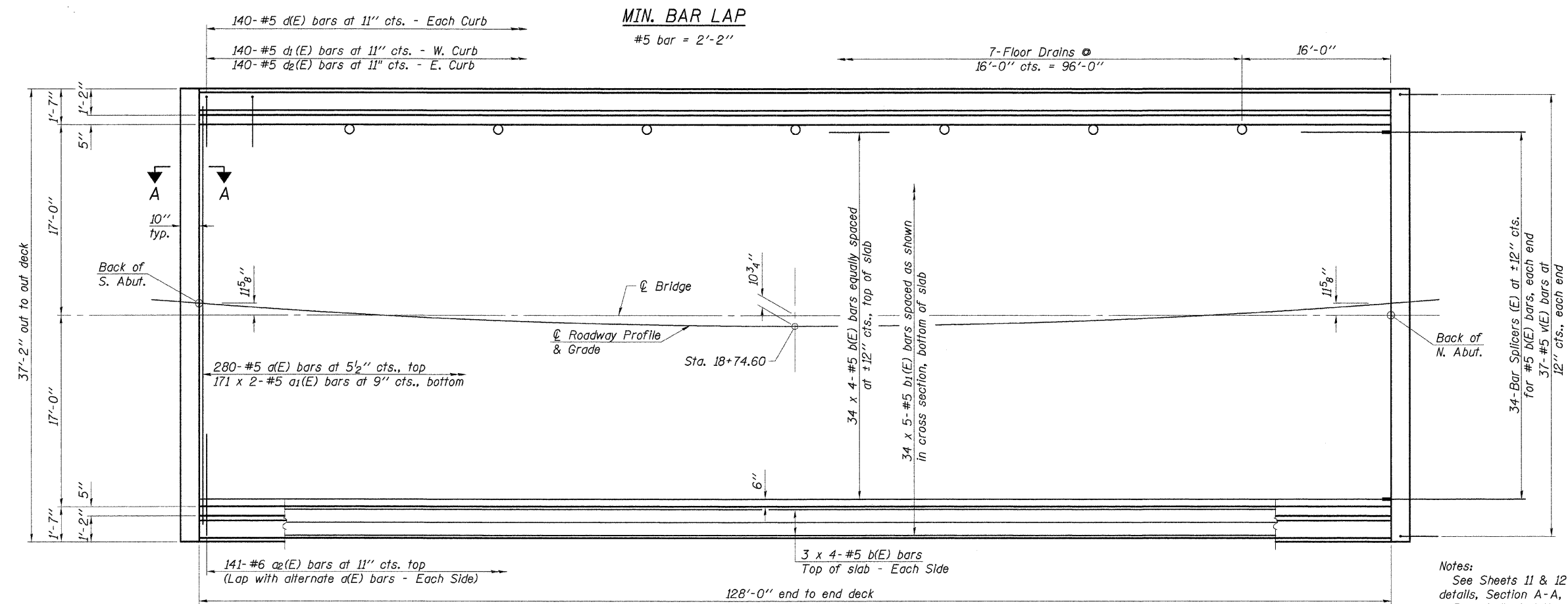
10-31-08

BRIDGE APPROACH SLAB DETAILS

SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

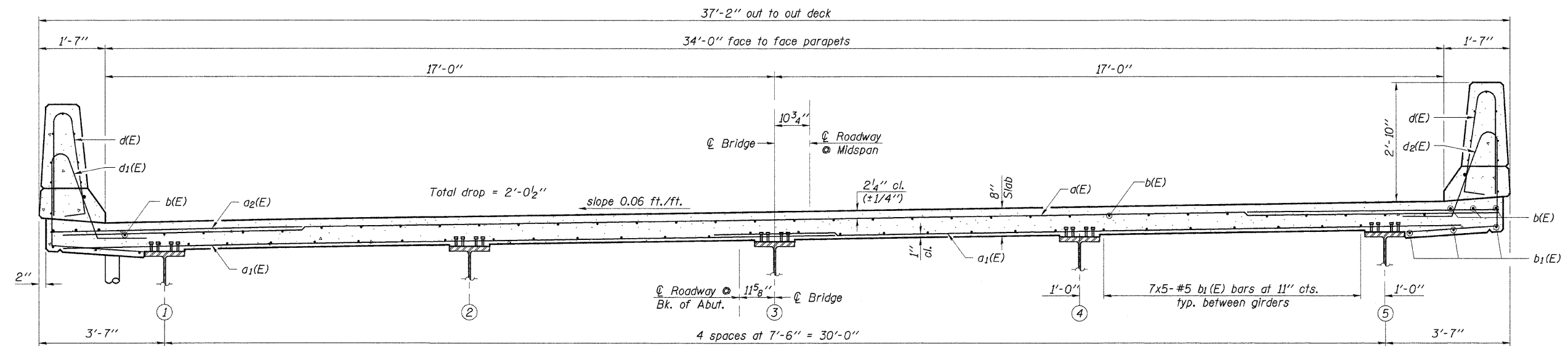
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	19
		ILLINOIS		

Sheet 10 of 19 CONTRACT NO. 85462



PLAN

Notes:
 See Sheets 11 & 12 of 19 for superstructure details, Section A-A, and Bill of Material.
 Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.
 See Sheet 12 of 19 for parapet reinforcement.
 See Sheet 19 of 19 for details of Bar Splicers.



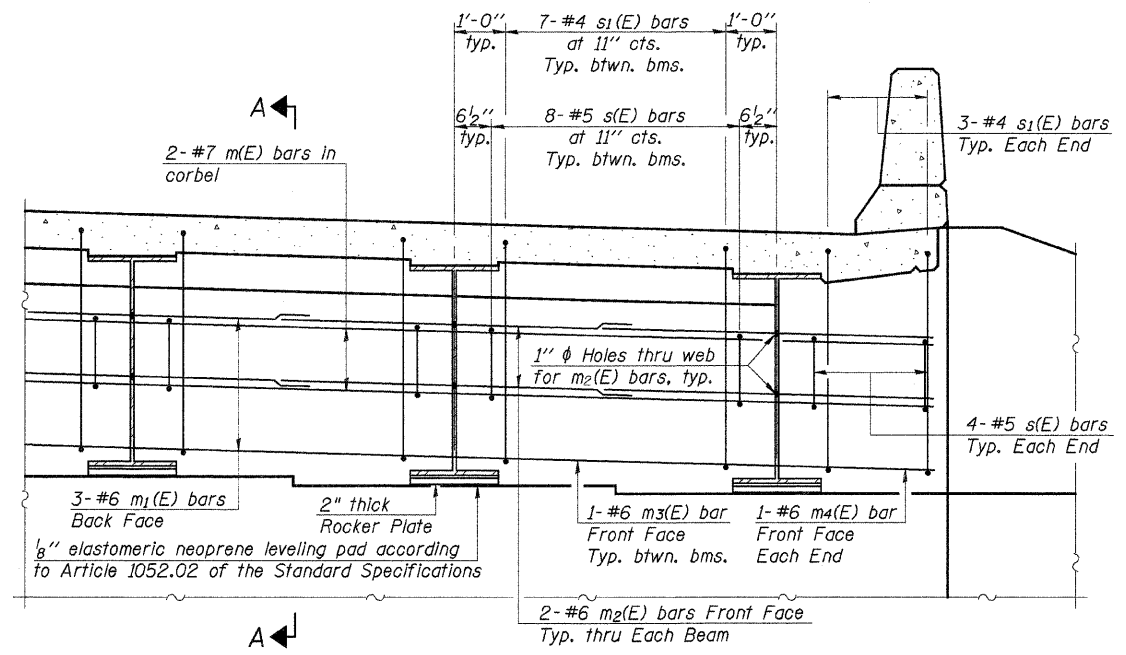
CROSS SECTION
(Looking North)

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

SI-1-0 11-1-06

SUPERSTRUCTURE
 SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

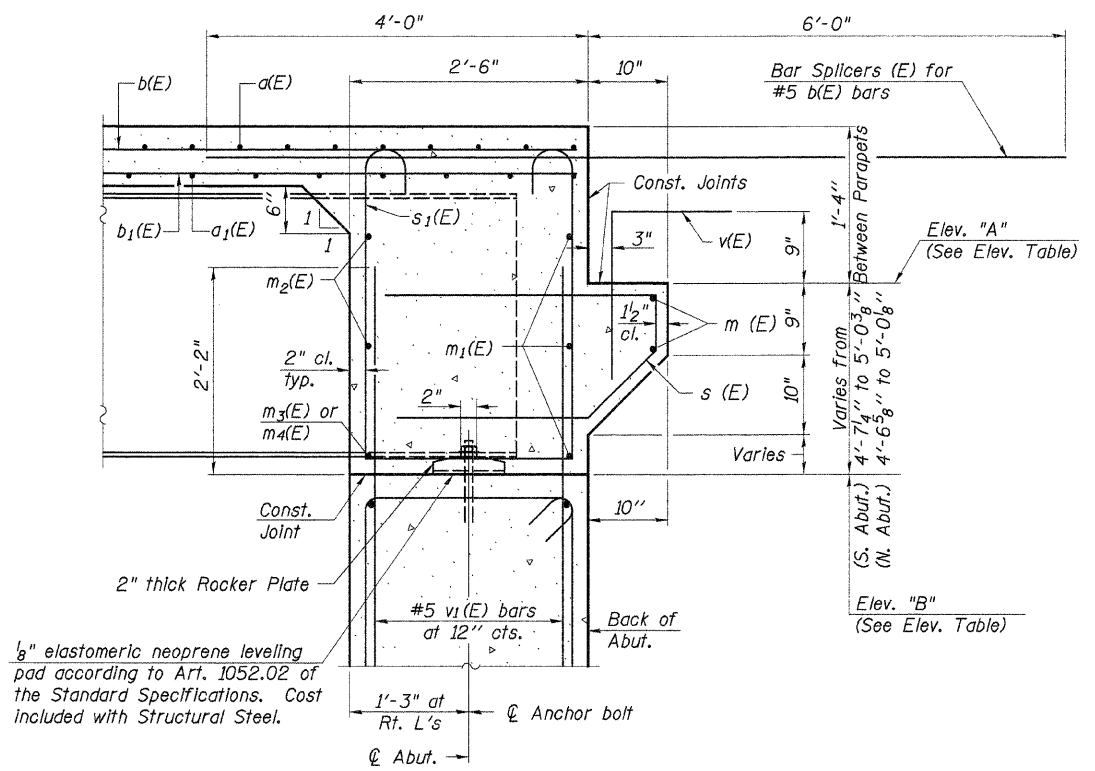
4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEDPORT, IL ROCKFORD, IL ROCKFELLE, IL SPRINGFIELD, IL	JOB NO.: 46859 FILE: SUPER1.dgn DATE: 03/24/09
----------------------------------------------------------------------------------	---------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------



DIAPHRAGM ELEVATION AT ABUTMENT
(Looking South)

Notes:
 Reinforcement bars in diaphragm are billed with superstructure on sheet 12 of 19.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 12 of 19.
 For details of bars s(E) & s1(E) see sheet 12 of 19.
 The s(E) and s1(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.
 For details of Bar Splicers see sheet 19 of 19.

MIN. BAR LAP
 #6 bar = 2'-9"



SECTION A-A
 Dimensions at right angles to abutment.

ELEVATION TABLE

Location	Elev. "A"	Elev. "B"
W. End - S. Abut.	975.88	971.28
E. End - S. Abut.	978.07	973.04
W. End - N. Abut.	973.54	968.99
E. End - N. Abut.	975.80	970.79

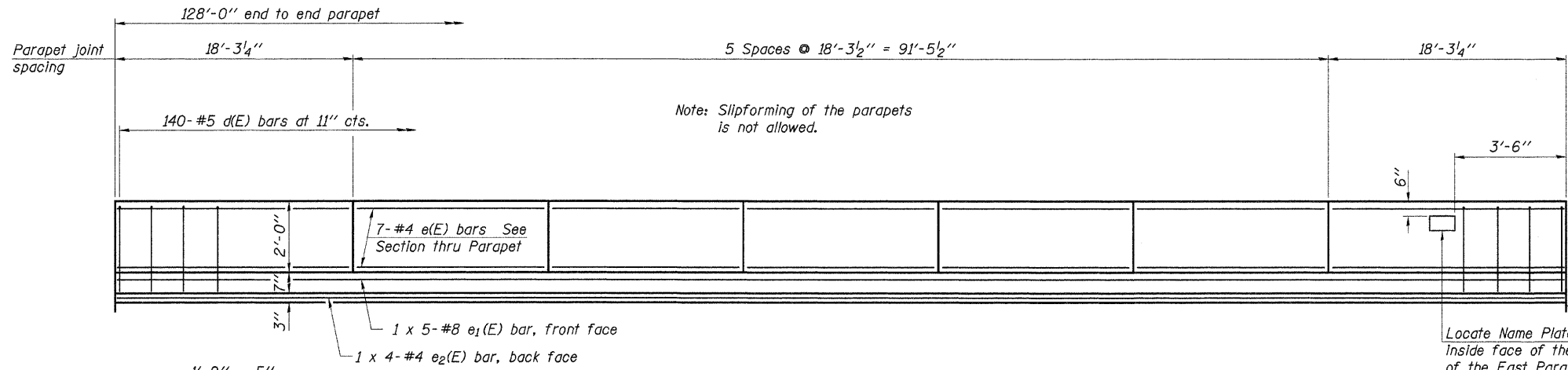
DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

SI-DS1 11-1-06

SUPERSTRUCTURE DETAILS

SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

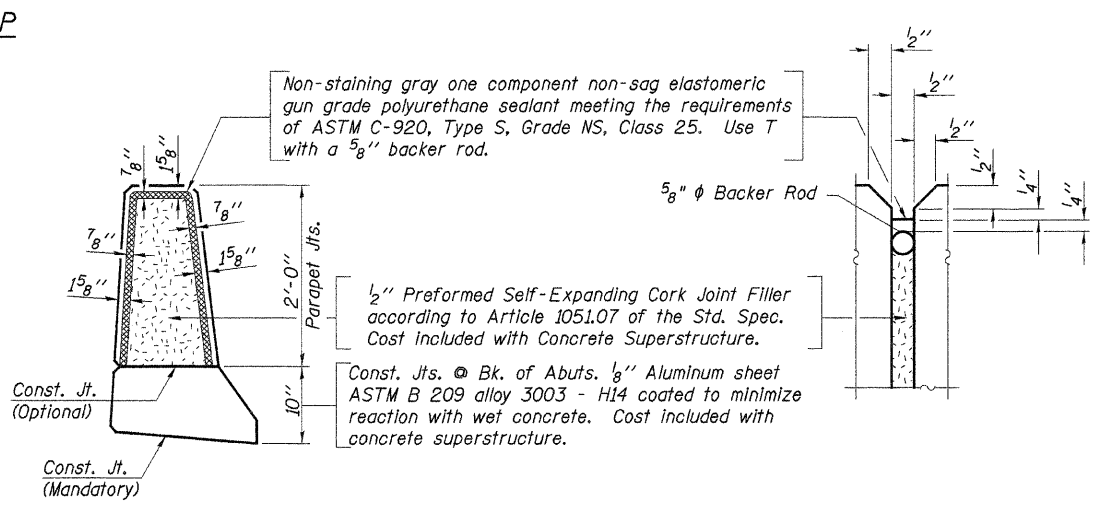
4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCKFORD, IL MORRISVILLE, IL SPRINGFIELD, IL	JOB NO.: 46859 FILE: SUPER2.dgn DATE: 03/24/09
----------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------



MIN. BAR LAP

#4 Bar = 1'-8"
 #8 Bar = 4'-6"
 Note: Bars indicates thus 1x4-#8 etc. indicates 1 line of bars with 4 lengths per line.

INSIDE ELEVATION OF PARAPET

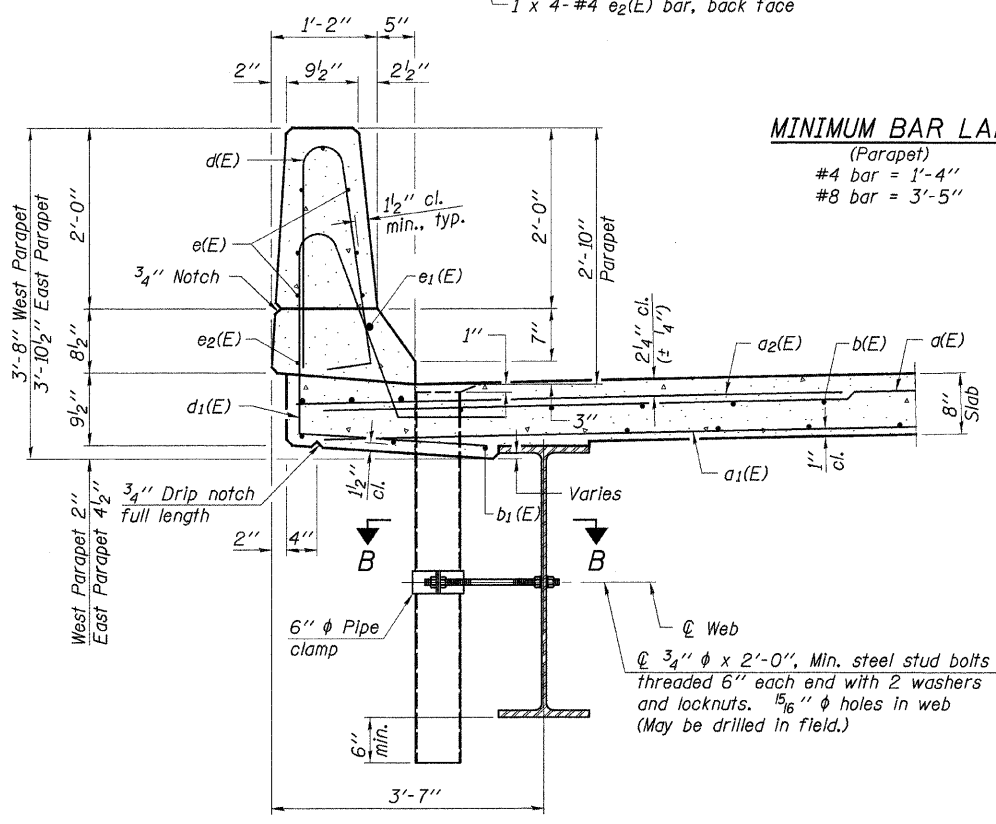


PARAPET JOINT DETAILS

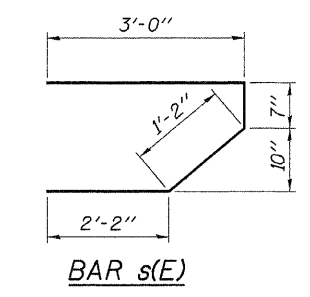
Notes:
 Floor Drains need not be painted.
 Fiberglass pipe shall conform to ASTM D 2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.

MINIMUM BAR LAP

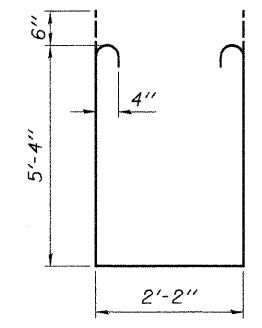
(Parapet)
 #4 bar = 1'-4"
 #8 bar = 3'-5"



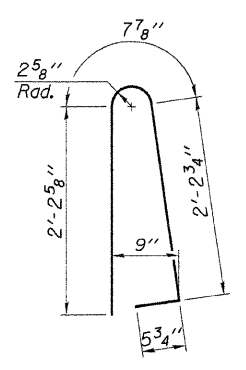
SECTION THRU PARAPET



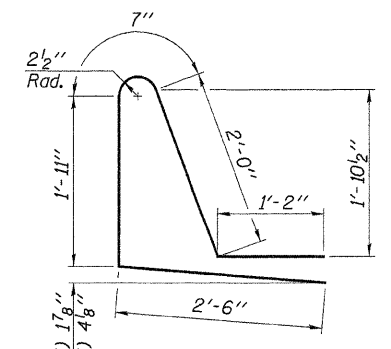
BAR s(E)



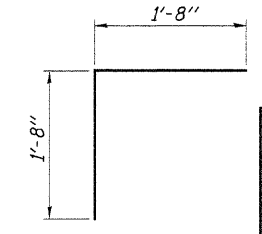
BAR s1(E)



BAR d(E)



BAR d1(E) & d2(E)



BAR v(E)

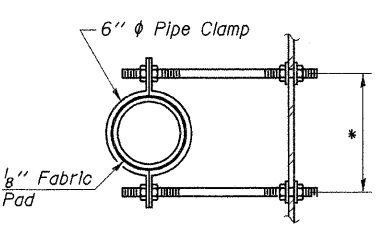
SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d(E)	280	#5	36'-6"	—
d1(E)	342	#5	19'-6"	—
d2(E)	282	#6	6'-0"	—
b(E)	160	#5	33'-7"	—
b1(E)	170	#5	27'-4"	—
e(E)	98	#4	17'-11"	—
e1(E)	10	#8	29'-3"	—
e2(E)	8	#4	33'-3"	—
m(E)	4	#7	36'-10"	—
m1(E)	6	#6	36'-10"	—
m2(E)	20	#6	10'-3"	—
m3(E)	8	#6	7'-2"	—
m4(E)	4	#6	3'-3"	—
s(E)	80	#5	6'-11"	⌋
s1(E)	68	#4	13'-10"	□
v(E)	74	#5	3'-4"	┌
Floor Drains	Each		7	
Name Plates	Each		1	
Reinforcement Bars, Epoxy Coated	Pound		39,270	
Concrete Superstructure	Cu. Yds.		194.0	
Protective Coat	Sq. Yd.		590	
Bridge Deck Grooving	Sq. Yd.		456	
Bar Splacers	Each		68	

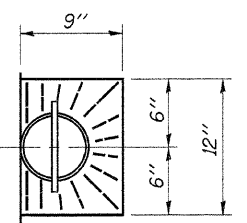
Bars indicated thus 1 x 5-#5 etc. indicates 1 line of bars with 5 lengths per line.

SUPERSTRUCTURE DETAILS

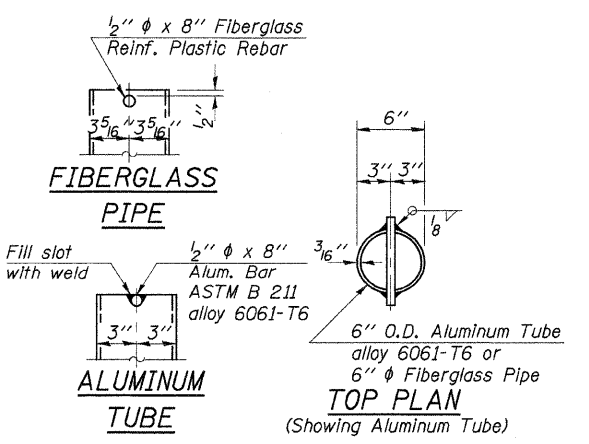
SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60



SECTION B-B
 * Dimension as required by Pipe Clamp



TOP PLAN



FIBERGLASS PIPE

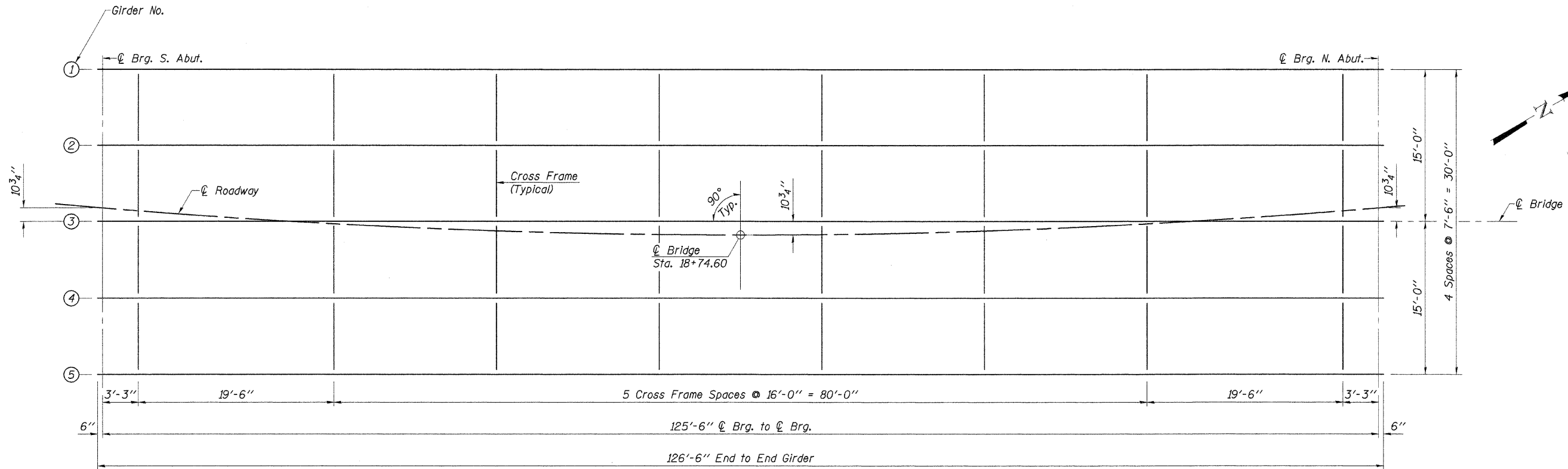
ALUMINUM TUBE

TOP PLAN
 (Showing Aluminum Tube)

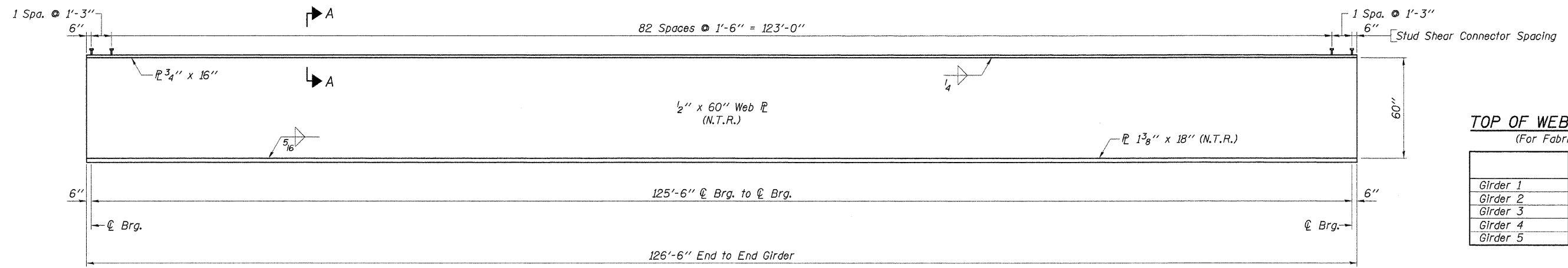
DESIGNED	J.A.M.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.R.K. & J.A.M.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JO DAVIESS	42	22
ILLINOIS		CONTRACT NO. 85462		

Sheet 13 of 19

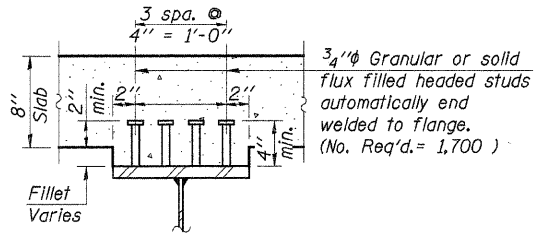


FRAMING PLAN



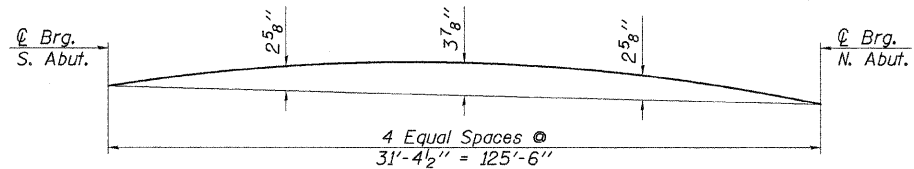
TOP OF WEB ELEVATIONS
(For Fabrication Only)

	C Brg. S. Abut.	C Brg. N. Abut.
Girder 1	976.57	974.28
Girder 2	977.01	974.73
Girder 3	977.45	975.18
Girder 4	977.89	975.63
Girder 5	978.33	976.08



SECTION A-A

GIRDER ELEVATION
Load carrying components designated "NTR" shall conform to the Supplemental Requirements for Notch Toughness, Zone 2.



CAMBER DIAGRAM

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

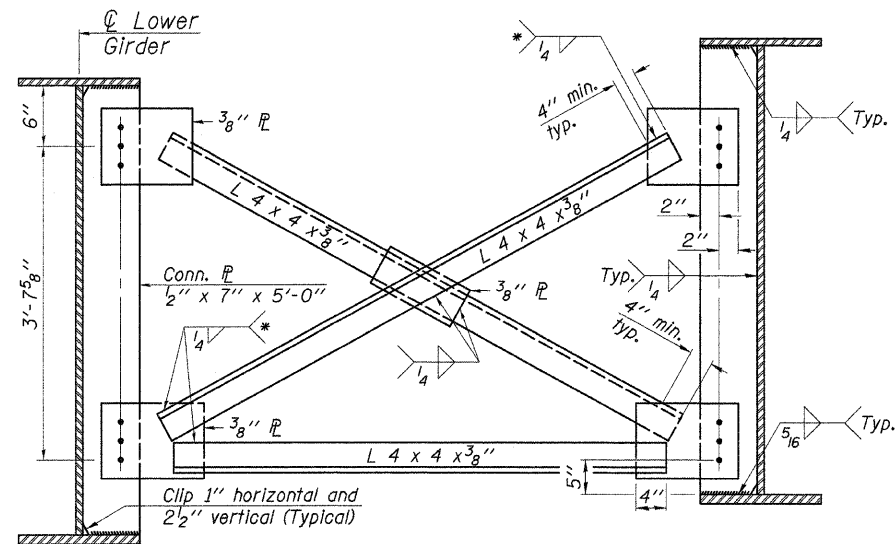
S-I-D 11-1-06

STRUCTURAL STEEL
SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREMONT, IL ROCKFORD, IL ROCKFORD, IL MONROE, WI SPRINGFIELD, IL

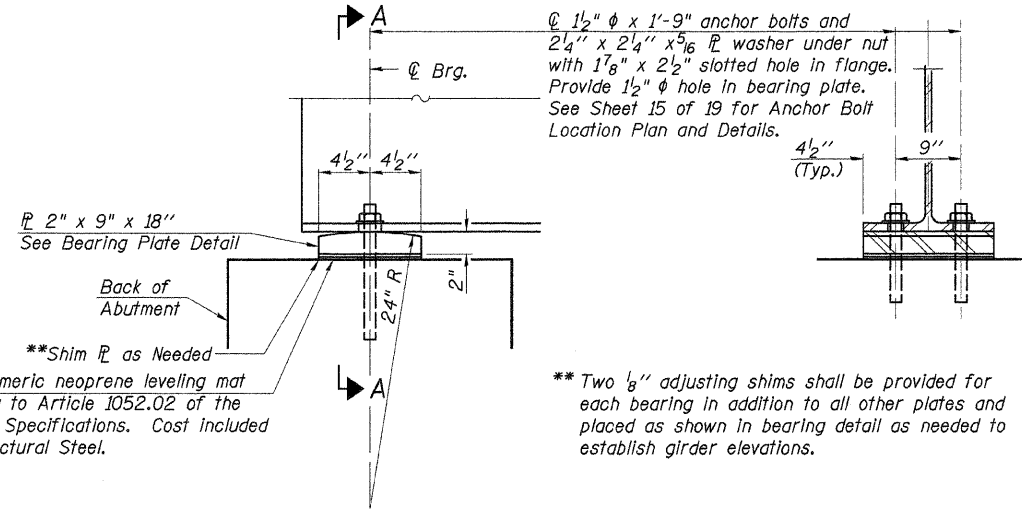
JOB NO.: 46859
FILE: STEEL.dgn
DATE: 03/24/09



Notes:
Use 3/4" ϕ H.S. Bolts with 5/16" ϕ Holes in connection plates and gusset plates.
Two Hardened washers required over holes in connection plates and gusset plates.

TYPICAL INTERIOR CROSS FRAME
(32-Required)

* Fillet weld angles along 3 sides on one face of gusset plate.
Note: All cross frames shall be installed as steel is erected and secured with erection pins and bolts.



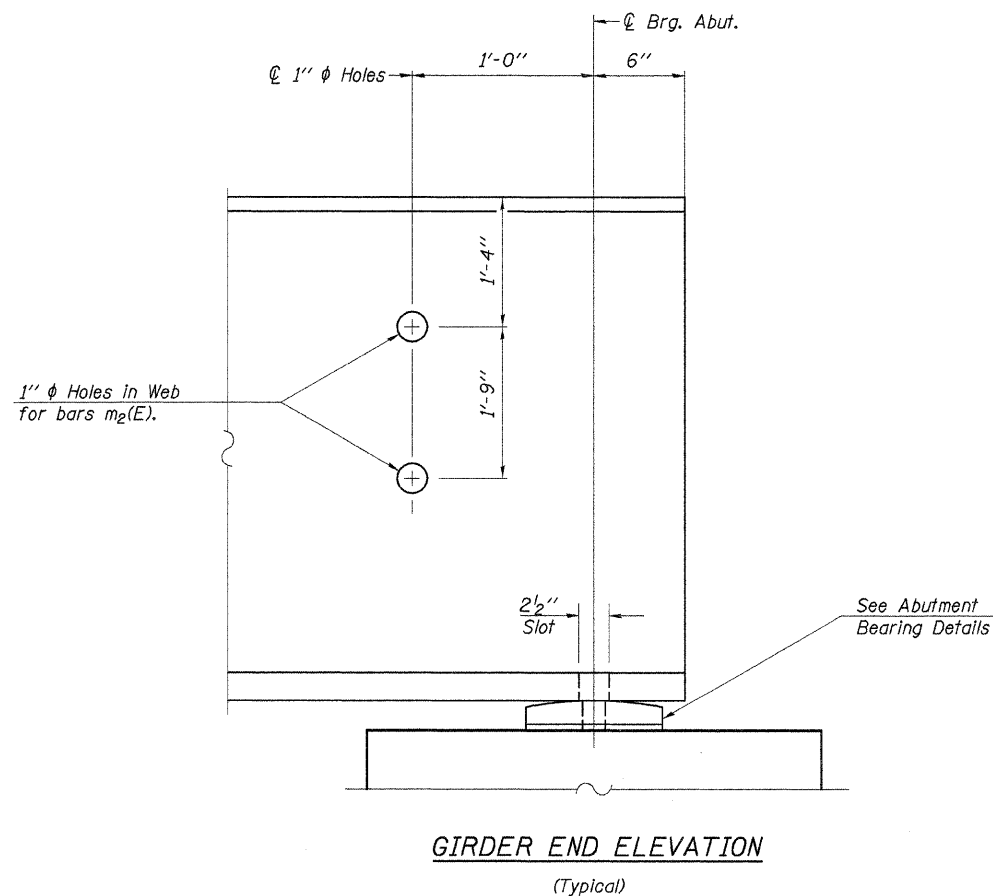
ELEVATION AT ABUTMENT

SECTION A-A

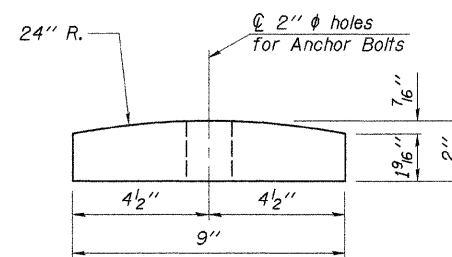
ABUTMENT BEARING DETAILS

(10 Required)

Note: Contractor has option of cast in place or drilled installation for anchor bolts.



GIRDER END ELEVATION
(Typical)



BEARING PLATE DETAIL

INTERIOR GIRDER MOMENT TABLE

0.5 Span		
I_s	(in ⁴)	41,046
I_c (n)	(in ⁴)	104,171
I_c (3n)	(in ⁴)	74,156
S_s	(in ³)	1,612
S_c (n)	(in ³)	2,163
S_c (3n)	(in ³)	1,983
D	(k/ft.)	1.060
$M\ell$	(k)	2,087
$s\ell$	(k/ft.)	0.520
$M_s\ell$	(k)	1,024
$M\ell$	(k)	1,349
M (Imp)	(k)	270
$S_3[M\ell + M$ (Imp)]	(k)	2,698
M_a	(k)	7,552
M_u	(k)	***
$f_s\ell$ non-comp	(k.s.l.)	15.5
$f_s\ell$ (comp)	(k.s.l.)	6.2
$f_s\ell_3$ (L + Imp)	(k.s.l.)	15.0
f_s (Overload)	(k.s.l.)	36.7
f_s (Total)	(k.s.l.)	47.7
VR	(k)	55.3

***Non-Compact Braced Section

INTERIOR GIRDER REACTION TABLE

Abutments		
$R\ell$	(k)	99.1
$R\ell$	(k)	46.0
Imp.	(k)	9.3
R (Total)	(k)	154.4

I_s and S_s are the moment of inertia and section modulus of the steel section used in computing f_s (Total & Overload).

I_c (n) and S_c (n) are the moment of inertia and section modulus of the composite section used in computing stresses due to Live Load.

I_c (3n) and S_c (3n) are the moment of inertia and section modulus of the composite section used in computing stresses due to superimposed dead loads.

VR is the maximum Live Load + Impact shear range in the composite portion of the span.

M_a (Applied Moment) = $1.3[M\ell + Ms\ell + S_3(M\ell + M_{imp})]$.
The plastic moment capacity (M_u) is computed according to AASHTO 10.48.1 and 10.50.1.1

f_s (Overload) is the sum of the stresses due to $M\ell + Ms\ell + S_3(M\ell + M_{imp})$.

f_s (Total) (Non-compact section) is the sum of the stresses due to $1.3[M\ell + Ms\ell + S_3(M\ell + M_{imp})]$.

STRUCTURAL STEEL DETAILS

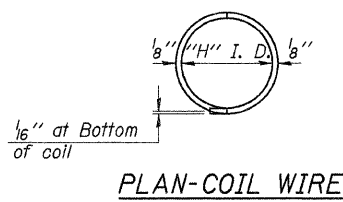
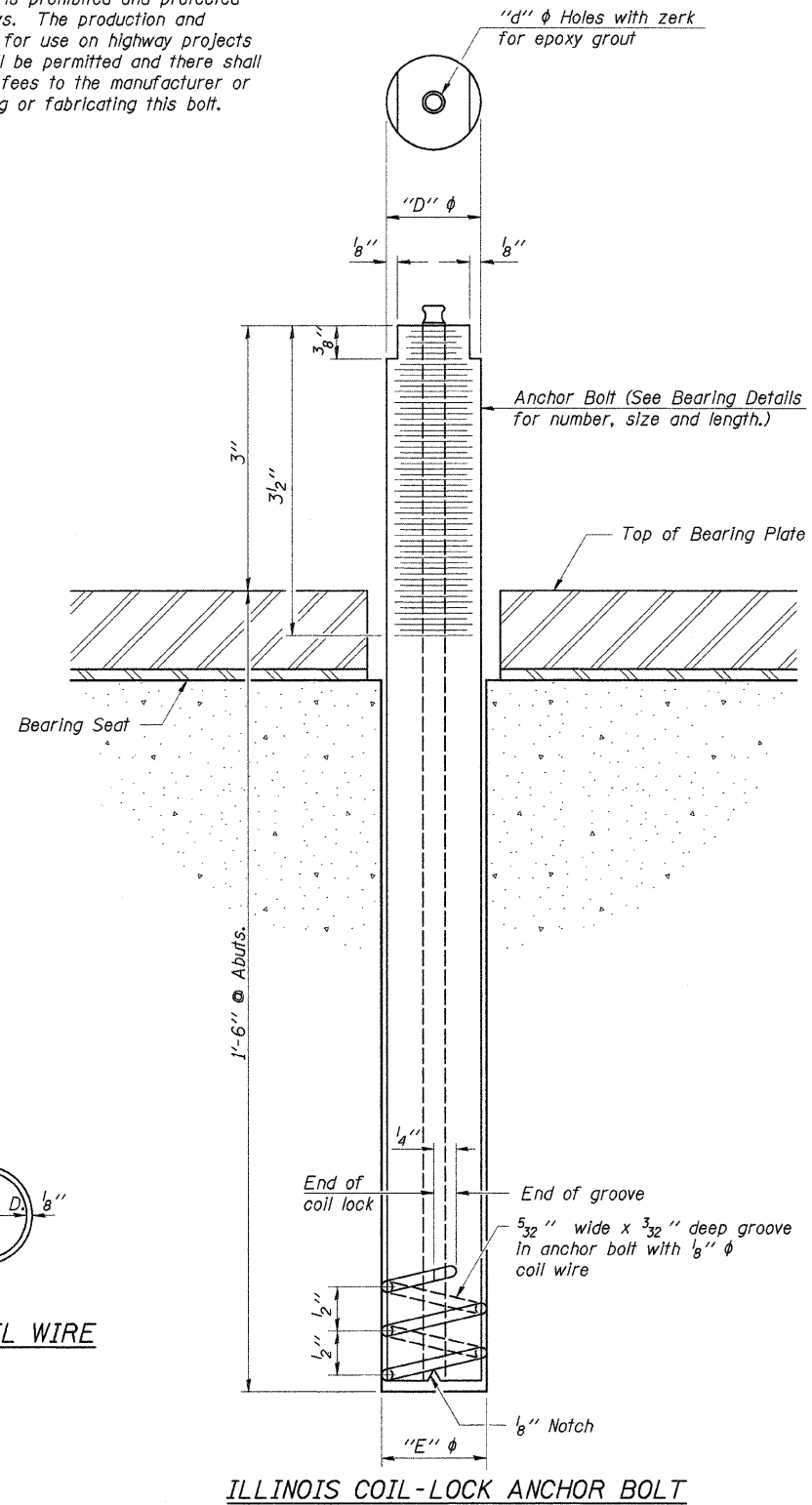
SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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. 3	93-00112-00-BR	JO DAVIESS	42	24
		ILLINOIS		

Sheet 15 of 19 CONTRACT NO. 85462

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.



MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and cut washers.
 The coil wire shall be made of any suitable soft steel wire.
 The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
 The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

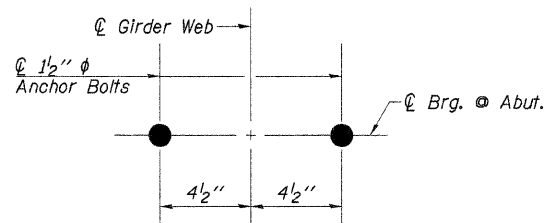
The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
 The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
 1. A threaded rod stud with nut and washer of the type specified.
 2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

Location	Type
Abutments	A307

ASTM F 1554 Grade 105, ASTM A 449 and AASHTO M 314 Grade 105 anchor bolts may be substituted for the anchor bolts shown above.

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
 Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
 The anchor bolts, furnished and installed including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for Furnishing and Erecting Structural Steel.



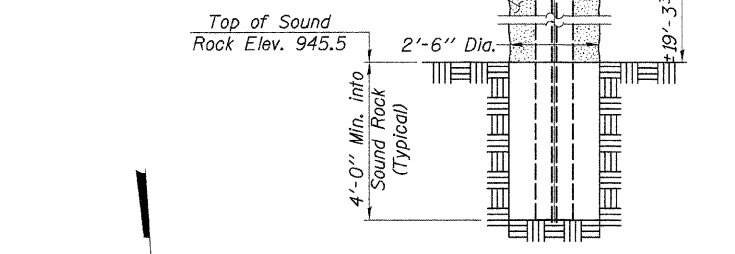
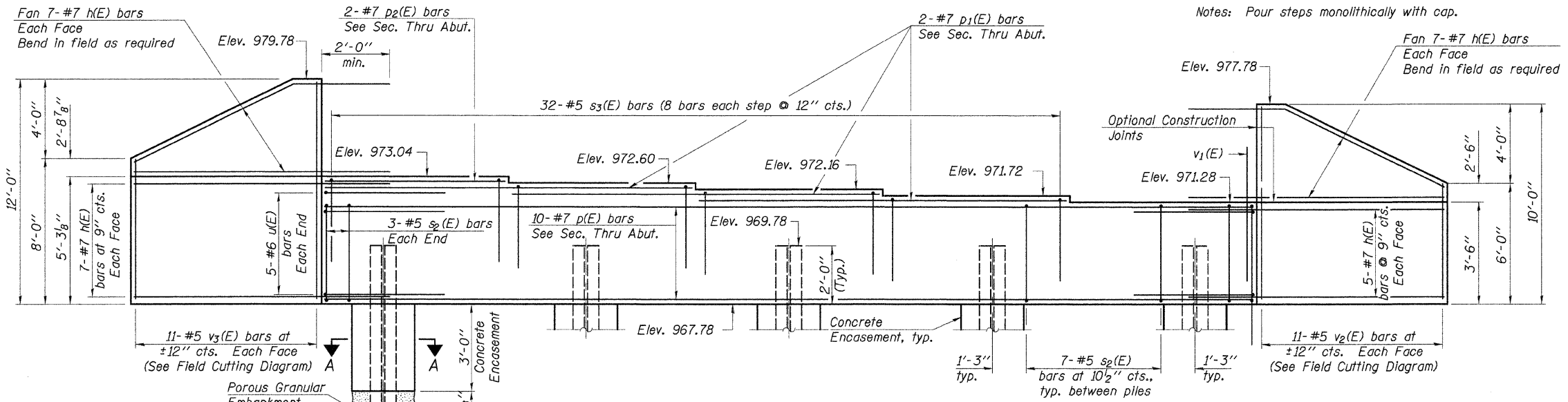
ANCHOR BOLT LOCATION PLAN

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

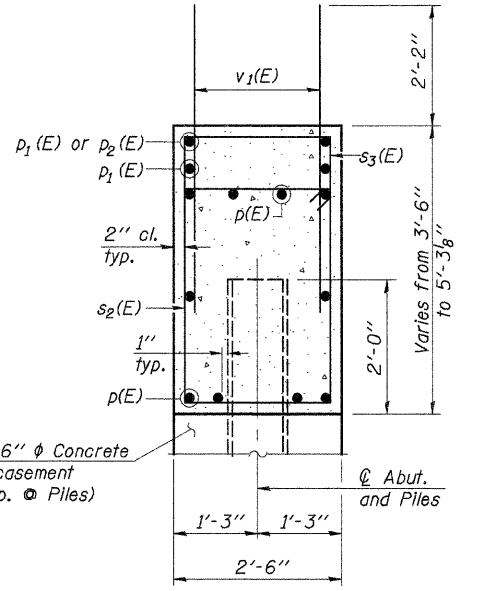
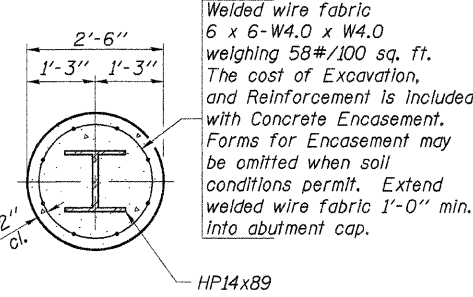
ABB-1 10-22-04

ANCHOR BOLT DETAILS
 SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, ENVIRONMENTAL SCIENTISTS	JOB NO.: 46859 FILE: ABOLT.DGN DATE: 03/24/09
----------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------



PILE DATA
 Type & Size: Steel Piles HP14x89
 Nominal Required Bearing: Set in Rock (See Note A)
 Est. Length: 29 ft.
 No. Production Piles: 5
 The Steel H-Piles shall be according to ASTM A270 Grade 50



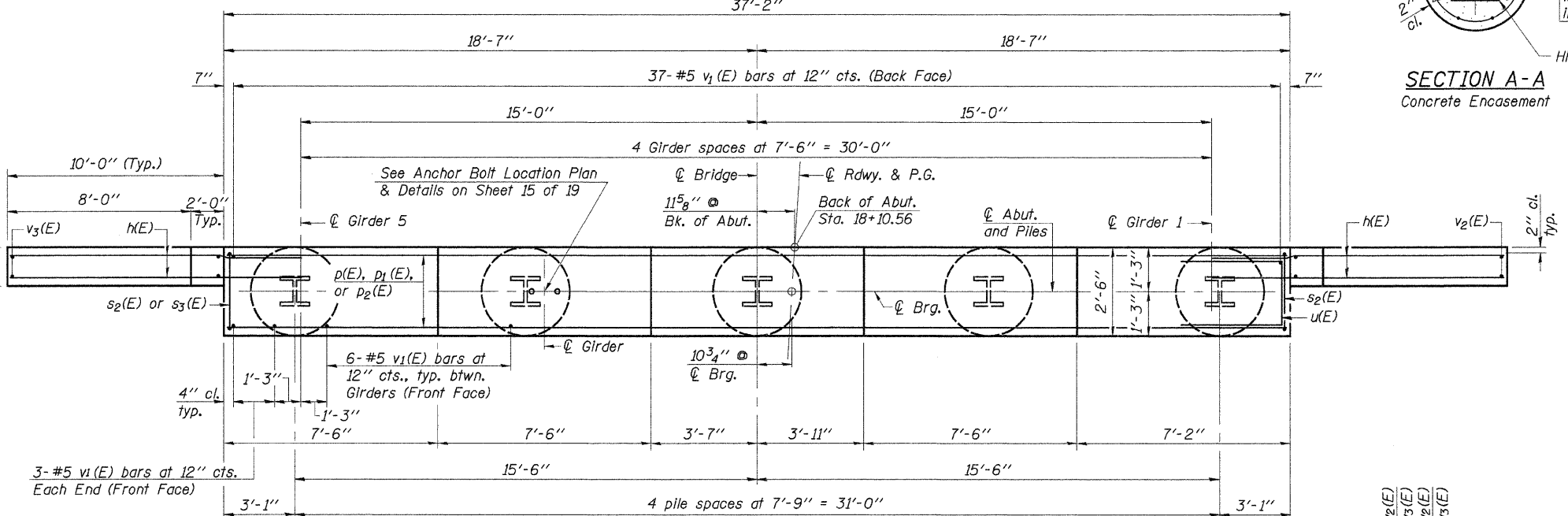
ELEVATION
(Looking South)

SEC. THRU ABUT.

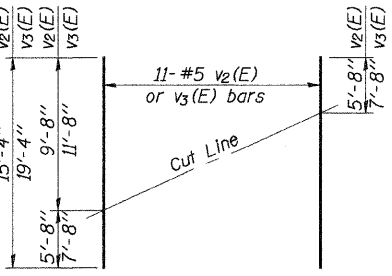
SOUTH ABUT. BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	52	#7	13'-0"	—
p(E)	10	#7	36'-10"	—
p1(E)	6	#7	15'-0"	—
p2(E)	2	#7	7'-3"	—
s2(E)	34	#5	11'-7"	□
s3(E)	32	#5	9'-4"	□
u(E)	10	#6	12'-3"	□
v1(E)	67	#5	4'-4"	—
v2(E)	11	#5	15'-4"	—
v3(E)	11	#5	19'-4"	—
Structure Excavation			Cu. Yd.	68
Concrete Structures			Cu. Yd.	22.1
Reinforcement Bars, Epoxy Coated			Pound	3,960
Furnishing Steel Piles HP14x89			Foot	145
Setting Piles in Rock			Each	5
Concrete Encasement			Cu. Yd.	2.8

For details of piles see sheet 18 of 19.

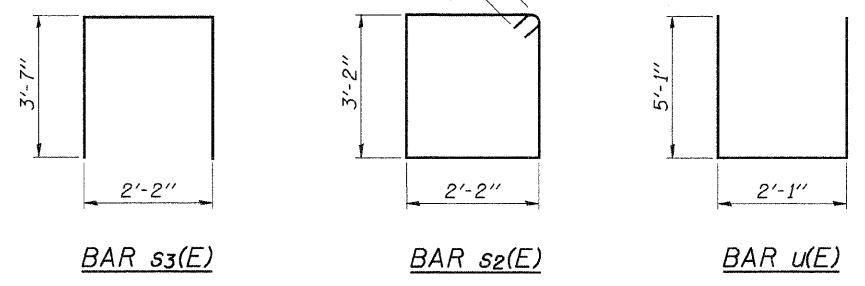


PLAN



FIELD CUTTING DIAGRAM

Order v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s3(E)

BAR s2(E)

BAR u(E)

***Note A:**
 Precore through existing earth, fragmented limestone and sound rock as shown. Piles shall be grouted into the rock with Class SI Concrete. Precored holes shall be clean at time of placement and grouting. The Class SI Concrete used for grouting piles into rock and the Porous Granular Embankment Material used to fill cored holes, are included in the price for "Setting Piles in Rock." See Special Provisions.

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

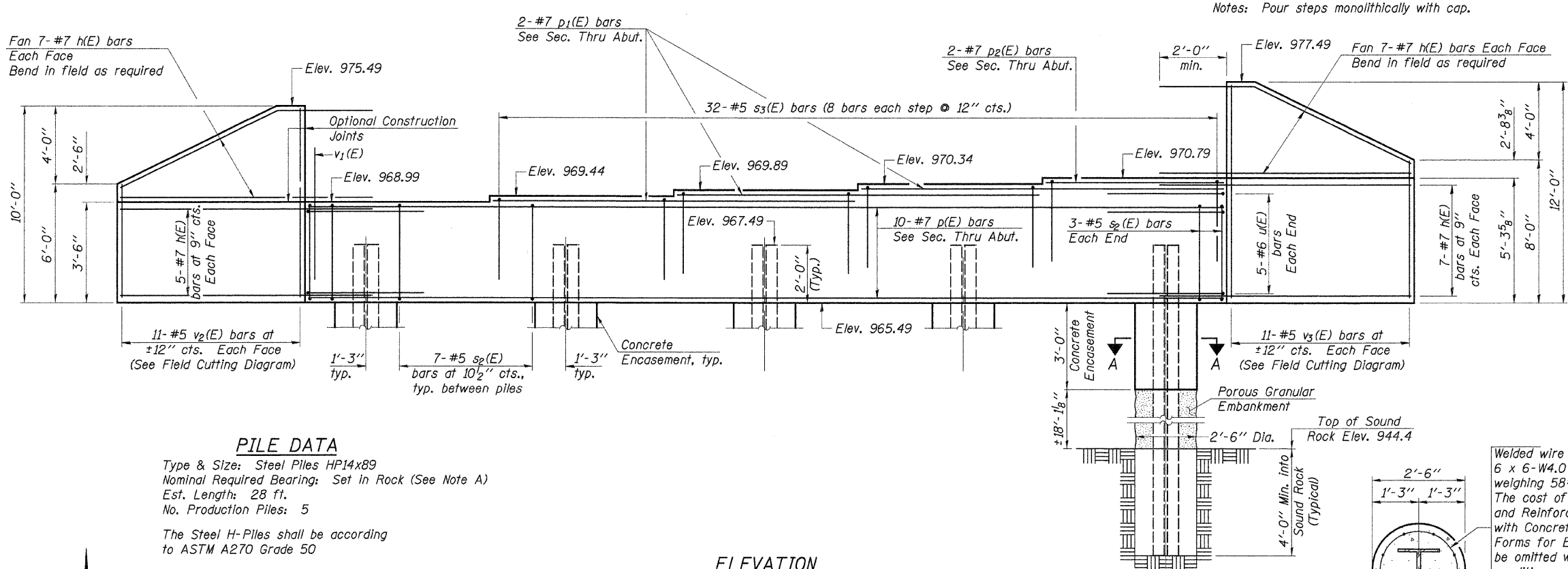
AI-O 11-1-06

SOUTH ABUTMENT
 SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 PREPARED IN ROCKFORD, IL, ROCKFORD, IL, MONROE, WI, SPRINGFIELD, IL

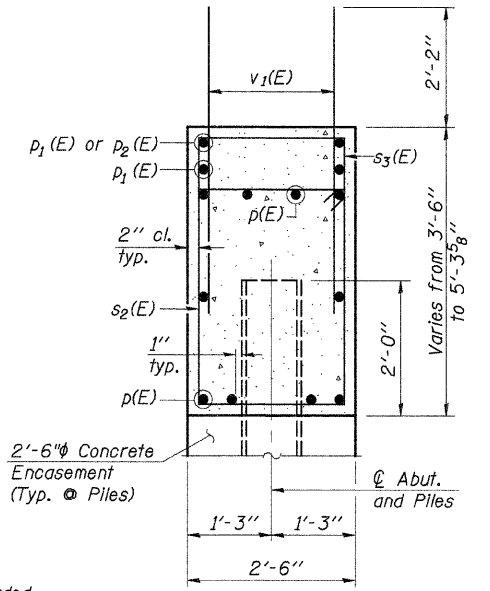
JOB NO.: 46859
 FILE: ABUT1.dgn
 DATE: 03/24/09



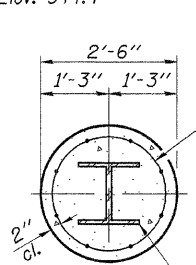
PILE DATA

Type & Size: Steel Piles HP14x89
 Nominal Required Bearing: Set in Rock (See Note A)
 Est. Length: 28 ft.
 No. Production Piles: 5
 The Steel H-Piles shall be according to ASTM A270 Grade 50

ELEVATION
 (Looking North)
 37'-2"

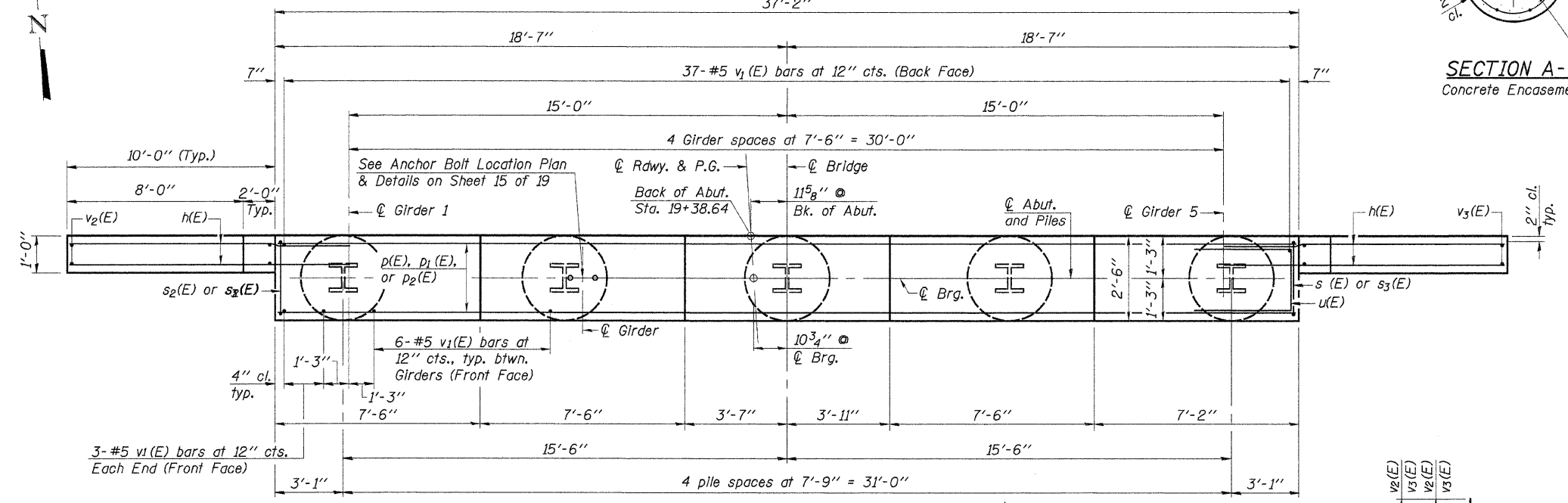


SEC. THRU ABUT.



SECTION A-A
 Concrete Encasement

Welded wire fabric 6 x 6-W4.0 x W4.0 weighing 58#/100 sq. ft. The cost of Excavation, and Reinforcement is included with Concrete Encasement. Forms for Encasement may be omitted when soil conditions permit. Extend welded wire fabric 1'-0" min. into abutment cap.

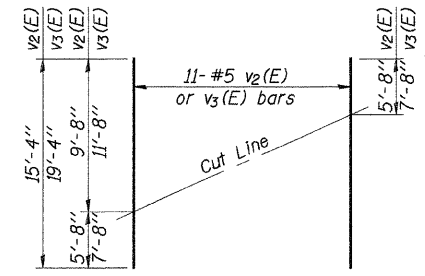


PLAN

NORTH ABUT. BILL OF MATERIAL

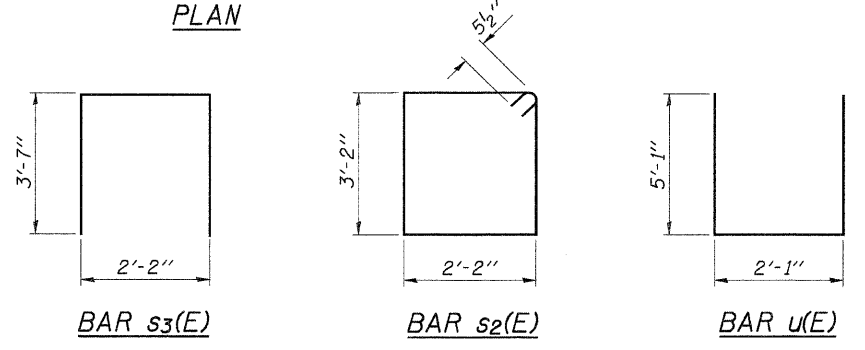
Bar	No.	Size	Length	Shape
h(E)	52	#7	13'-0"	
p(E)	10	#7	36'-10"	
p1(E)	6	#7	15'-0"	
p2(E)	2	#7	7'-3"	
s2(E)	34	#5	11'-7"	
s3(E)	32	#5	9'-4"	
u(E)	10	#6	12'-3"	
v1(E)	67	#5	4'-4"	
v2(E)	11	#5	15'-4"	
v3(E)	11	#5	19'-4"	
Structure Excavation			Cu. Yd.	68
Concrete Structures			Cu. Yd.	22.1
Reinforcement Bars, Epoxy Coated			Pound	3,960
Furnishing Steel Piles HP14x89			Foot	140
Setting Piles in Rock			Each	5
Concrete Encasement			Cu. Yd.	2.8

For details of piles see sheet 18 of 19.



FIELD CUTTING DIAGRAM

Order v2(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



BAR s3(E)

BAR s2(E)

BAR u(E)

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

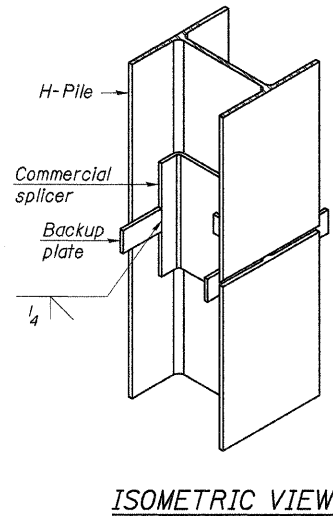
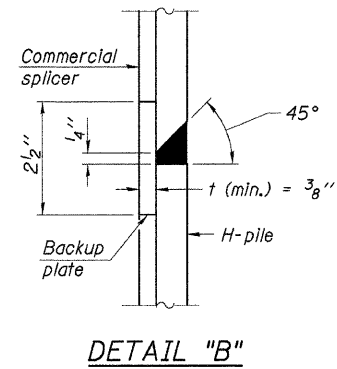
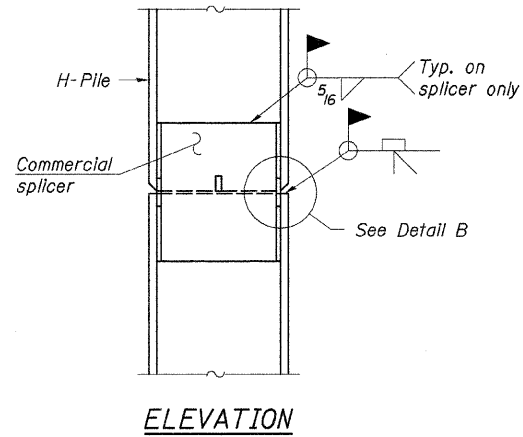
*Note A:
 Precore through existing earth, fragmented limestone and sound rock as shown. Piles shall be grouted into the rock with Class SI Concrete. Precored holes shall be clean at time of placement and grouting. The Class SI Concrete used for grouting piles into rock and the Porous Granular Embankment Material used to fill cored holes, are included in the price for "Setting Piles in Rock."
 See Special Provisions.

NORTH ABUTMENT
 SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

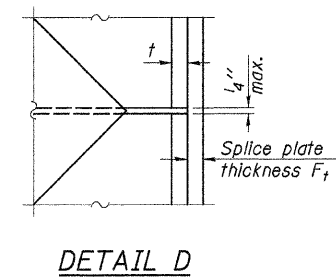
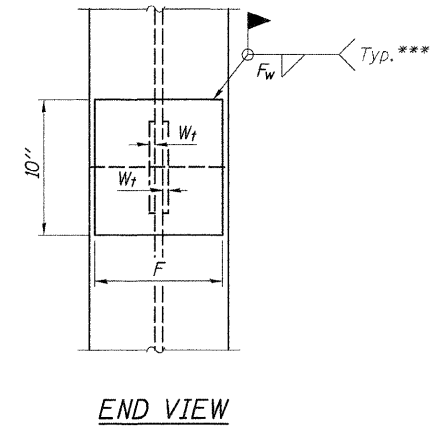
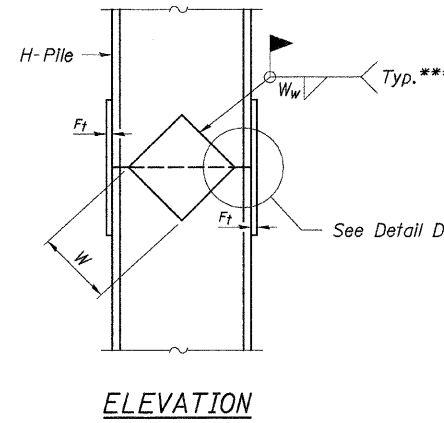
4440 ASH GROVE
 SPRINGFIELD, IL 62711
 (217) 793-8600
 www.fehr-graham.com

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 FRESNO, IL, ROCKFORD, IL, ROCKFORD, IL, MONROE, WI, SPRINGFIELD, IL

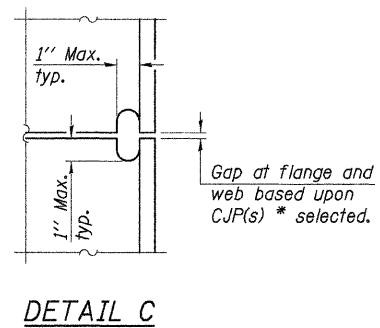
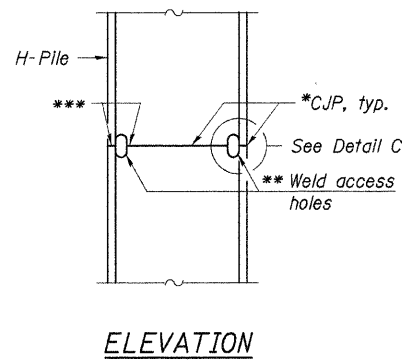
JOB NO.: 46859
 FILE: ABUT2.dgn
 DATE: 03/24/09



WELDED COMMERCIAL 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"



COMPLETE PENETRATION WELD SPLICE

WELDED PLATE FIELD SPLICE

- * 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.

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

F-HP

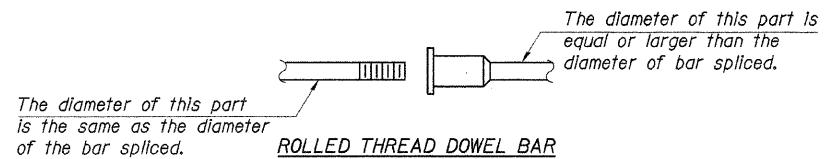
11-1-06

STEEL PILE DETAILS
SECTION 93-00112-00-BR
JO DAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCKFORD, WI SPRINGFIELD, IL

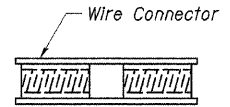
JOB NO.: 46859
FILE: PILES.dgn
DATE: 03/24/09



ROLLED THREAD DOWEL BAR



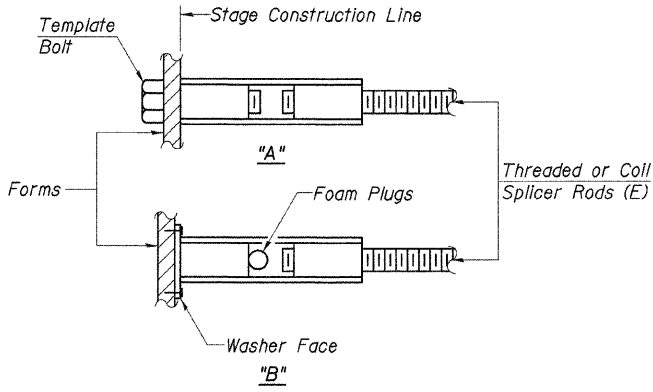
** ONE PIECE



WELDED SECTIONS

BAR SPLICER ASSEMBLY ALTERNATIVES

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



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.

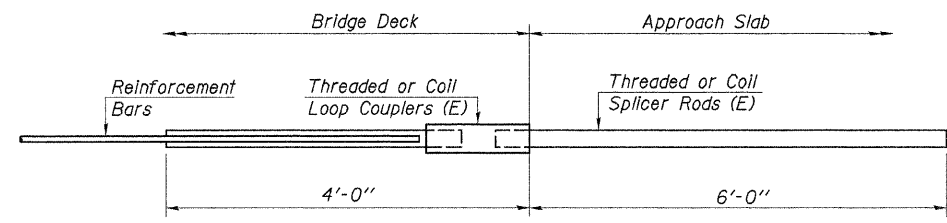
NOTES

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 or coiled 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) = $0.66 \times f_y \times A_t$

Where f_y = Yield strength of lapped reinforcement bars in ksi.
 A_t = Tensile stress area of lapped reinforcement bars.
 * = 28 day concrete

BAR SPLICER ASSEMBLIES			
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	7.9
#5	2'-2"	23.0	12.3
#6	2'-7"	33.1	17.4
#7	3'-5"	45.1	23.8
#8	4'-6"	58.9	31.3
#9	5'-9"	75.0	39.6
#10	7'-3"	95.0	50.3
#11	9'-0"	117.4	61.8



FOR INTEGRAL OR SEMI-INTEGRAL ABUTMENTS

Bar Splicer for #5 bar	
Min. Capacity =	23.0 kips - tension
Min. Pull-out Strength =	12.3 kips - tension
No. Required =	68

Bar Size	No. Assemblies Required	Location
#5	34	S. Approach Slab
#5	34	N. Approach Slab

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

BSD-1 10-1-08

BAR SPLICER DETAILS

SECTION 93-00112-00-BR
 JO DAVIESS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

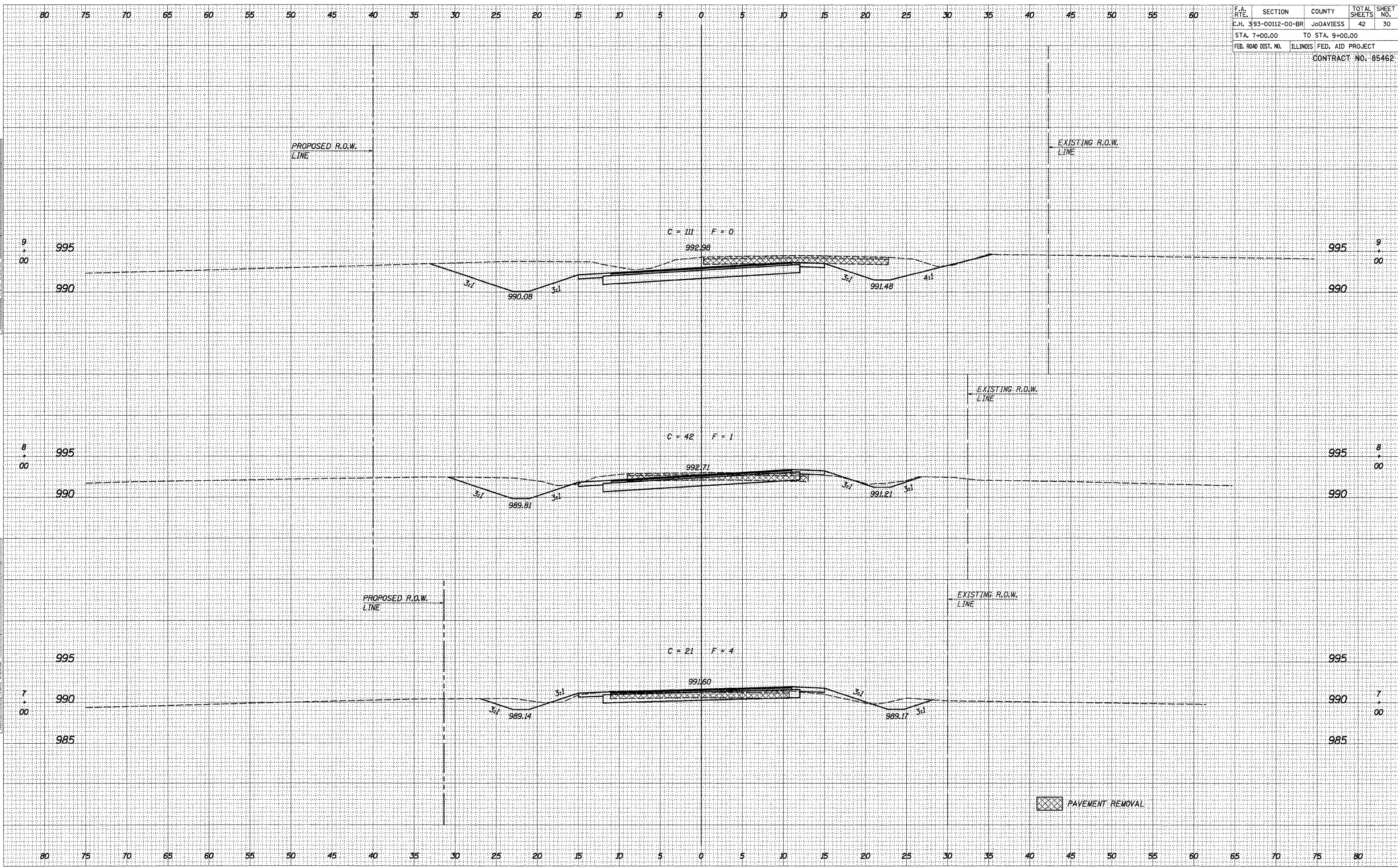
4440 ASH GROVE SPRINGFIELD, IL 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCOFORD, IL ROCKFORD, IL SPRINGFIELD, IL	JOB NO.: 46859 FILE: SPLICER.dgn DATE: 03/24/09
----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JO DAVIESS	42	30	
STA. 7+00.00 TO STA. 9+00.00				
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
CONTRACT NO. 85462				

DATE	BY

DATE	BY

PLOT DATE = 1/17/87
 PLOT SCALE = 8" = 100'
 USER NAME = S. PRICE



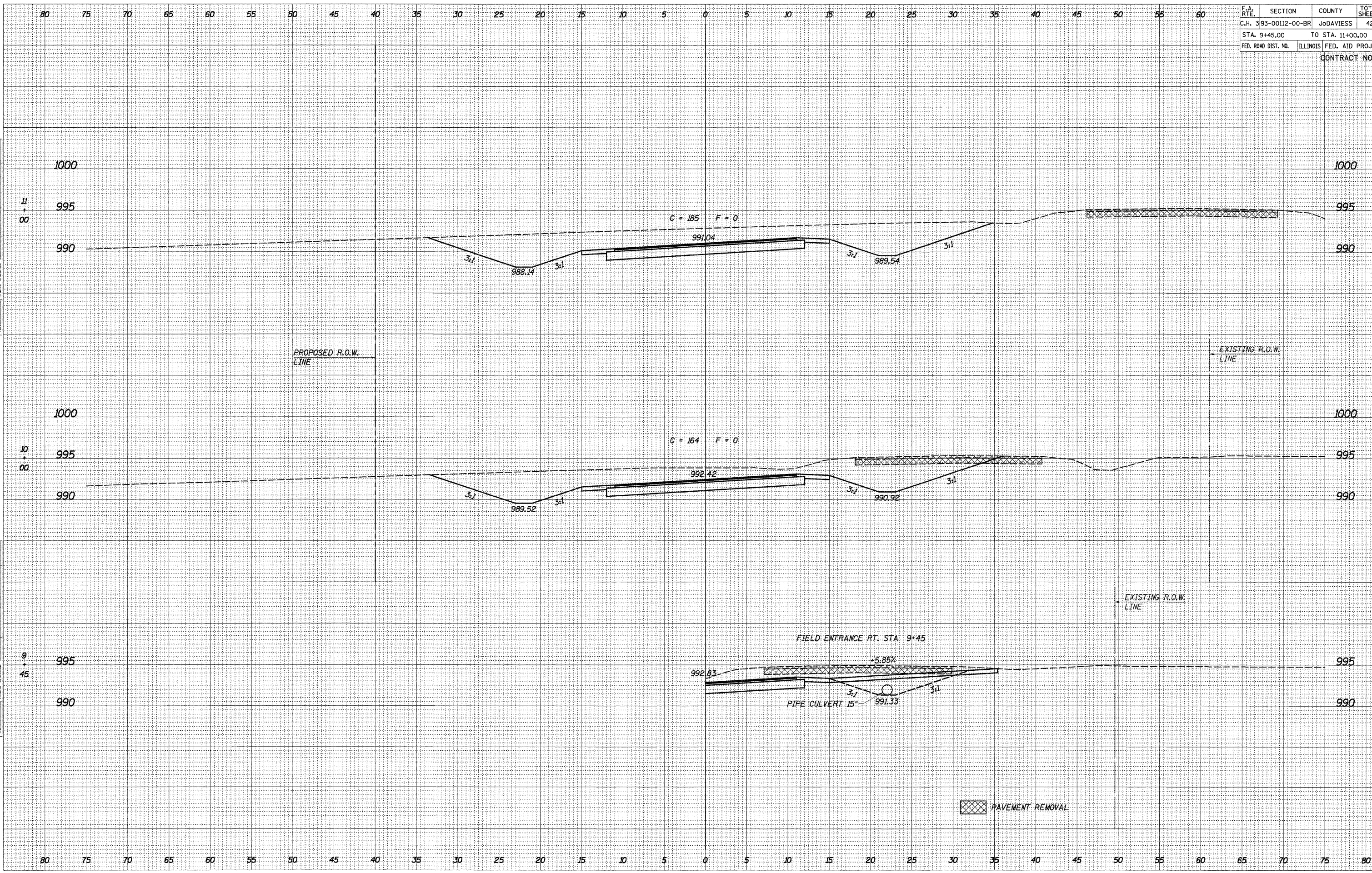
PAVEMENT REMOVAL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JoDAVISS		42	31
STA. 9+45.00		TO STA. 11+00.00		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 85462				

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

BY _____ DATE _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 AREAS CHECKED _____
 NO. _____

PLT DATE = 1/11/07
 USER NAME = S. PRICE
 PLOT SCALE = 5/8"

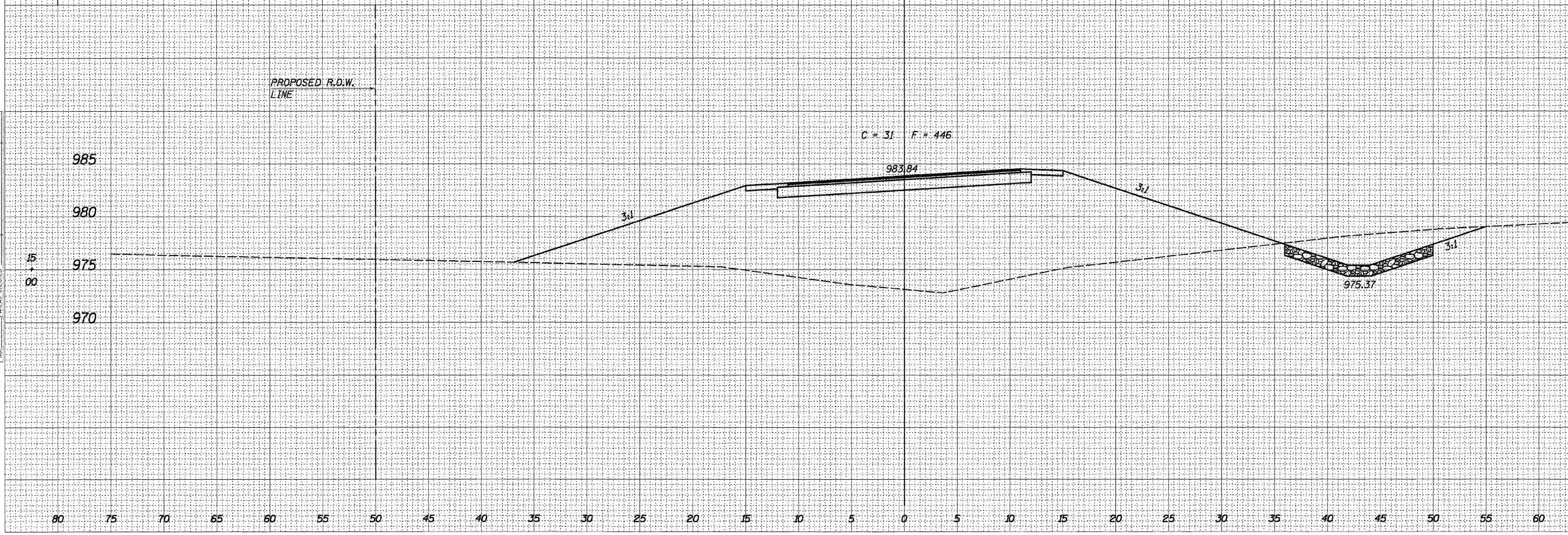
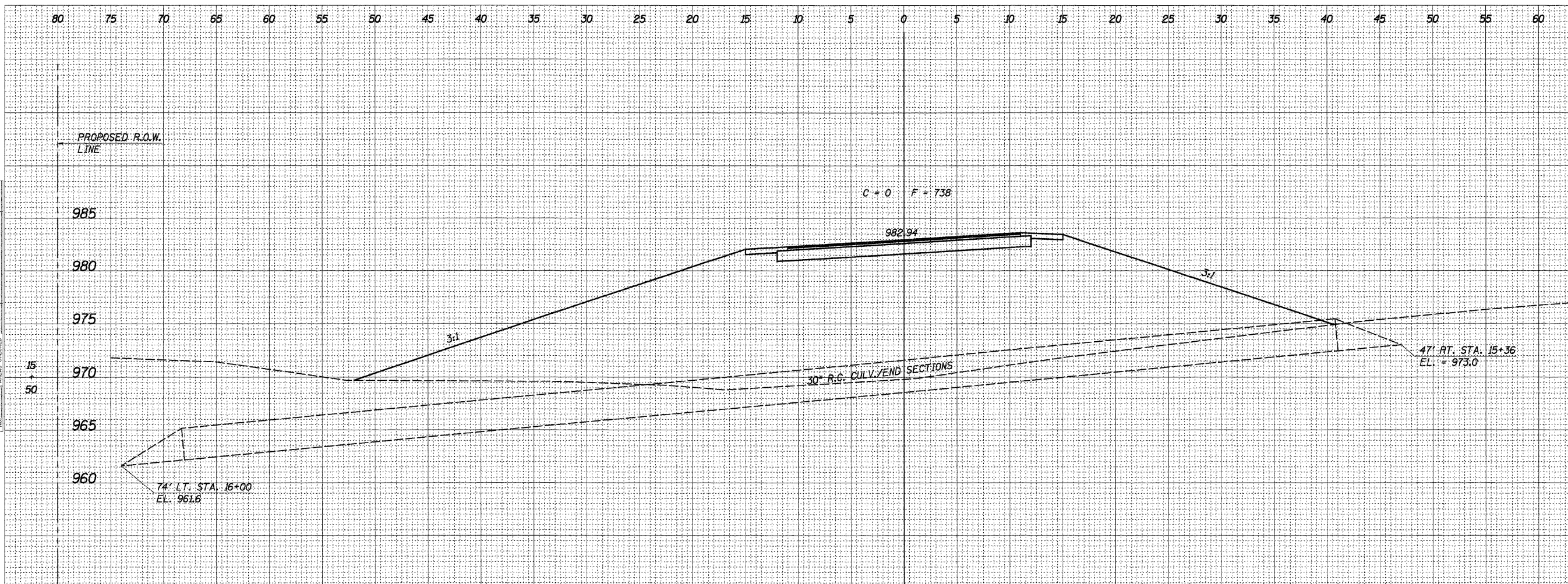


DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 SURVEY: _____ NOTE BOOK: _____
 NO. _____ AREAS CHECKED: _____

DATE: _____ BY: _____
 SURVEYED: _____ PLOTTED: _____
 SURVEY: _____ NOTE BOOK: _____
 NO. _____ AREAS CHECKED: _____

PLOT DATE = 1/11/87
 PLOT SCALE = 1" = 40'
 USER NAME = S. PRICE

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JODAVIESS		42	33
STA. 15+00.00 TO STA. 15+50.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 85462				

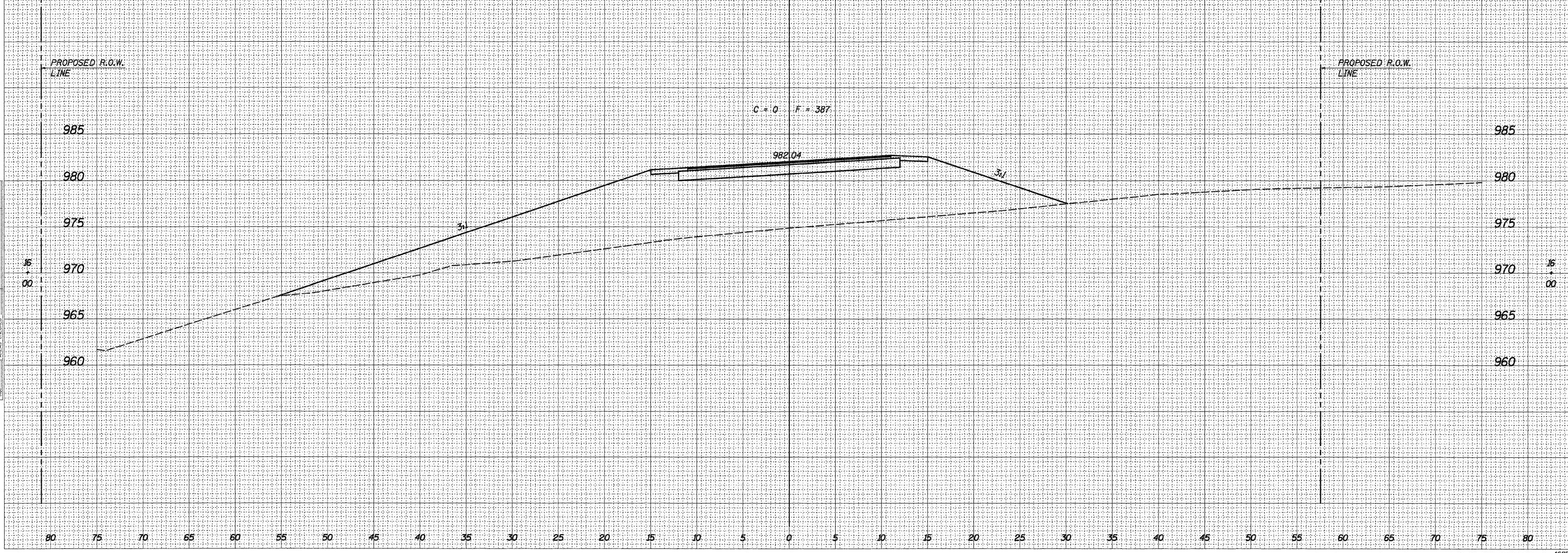
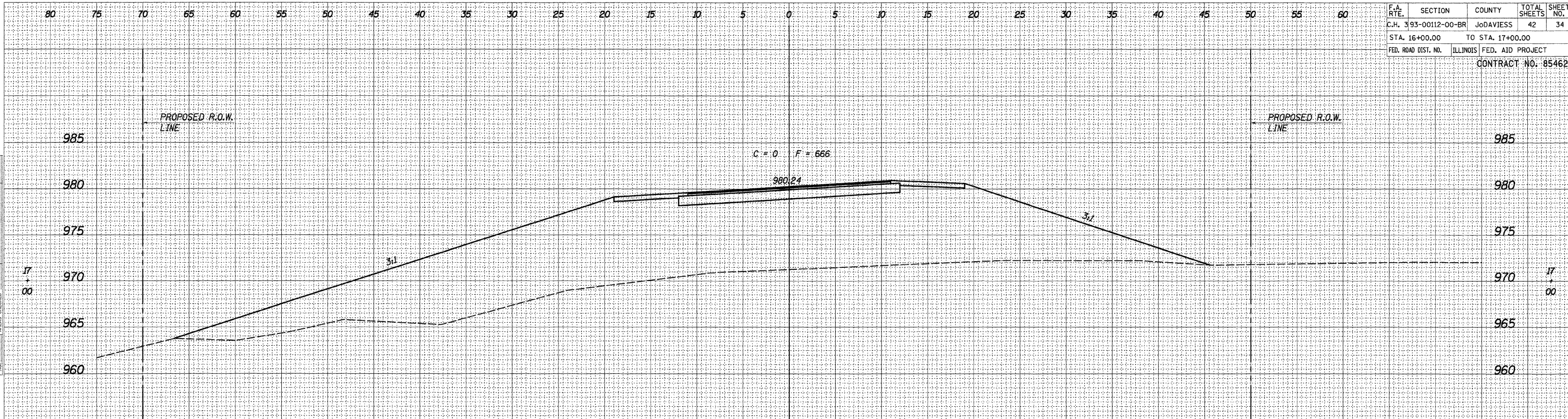


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR		JoDAVISS	42	34
STA. 16+00.00		TO STA. 17+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT		CONTRACT NO. 85462	

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____
 AREAS CHECKED: _____

DATE: _____
 BY: _____
 SURVEYED: _____
 PLOTTED: _____
 NOTE BOOK: _____
 NO. _____
 AREAS CHECKED: _____

PLOT DATE = 1/11/87
 PLOT SCALE = 5/8" = 1'-0"
 USER NAME = S. PRICE



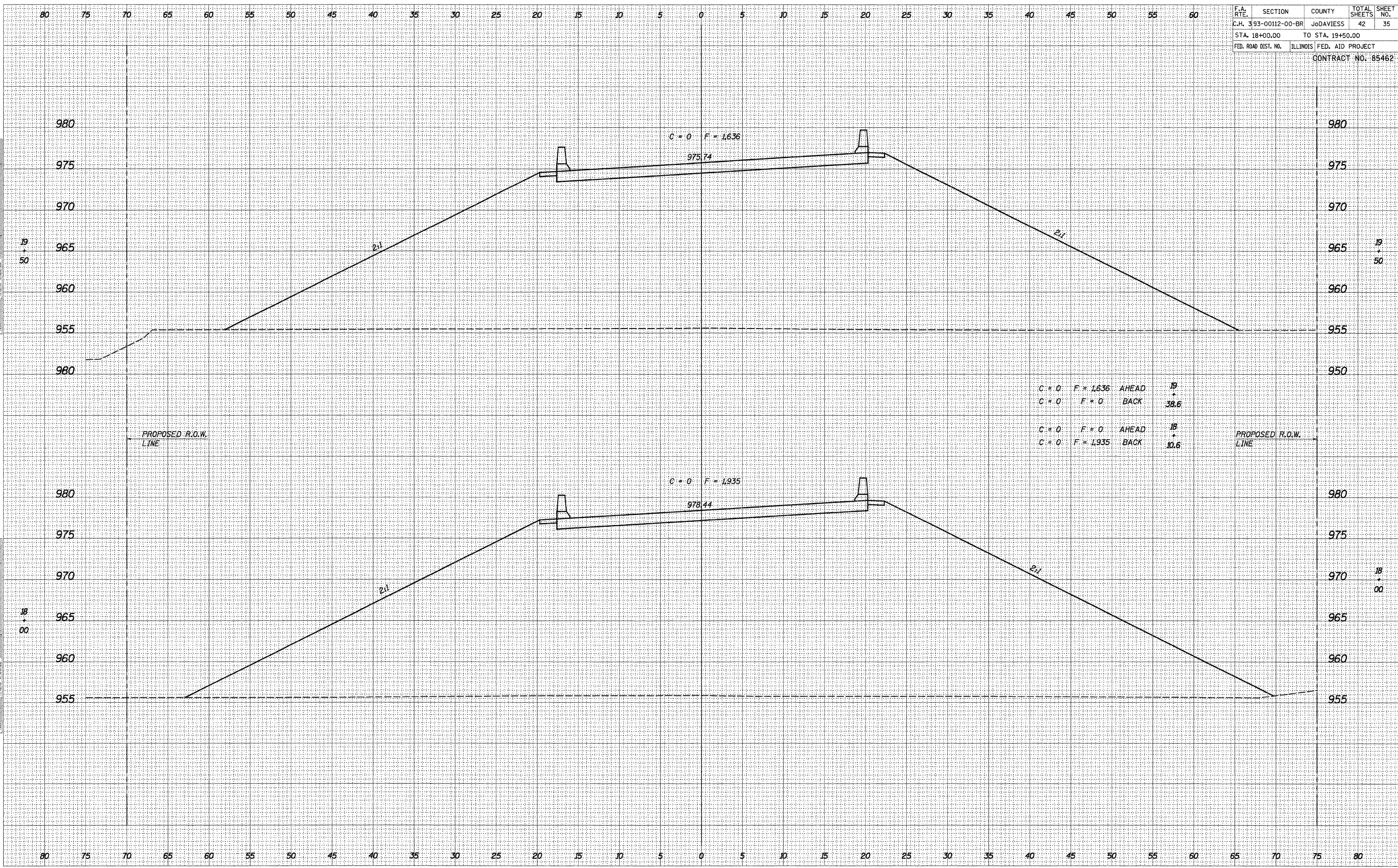
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR		JO DAVIESS	42	35
STA. 18+00.00		TO STA. 19+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 85462

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

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

PLOT DATE = 1/17/87
 PLOT SCALE = 1" = 20'
 USER NAME = S. PRICE



F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR		JO DAVIESS	42	36
STA. 20+00.00 TO STA. 21+00.00				
ILLINOIS FED. AID PROJECT				
CONTRACT NO. 85462				

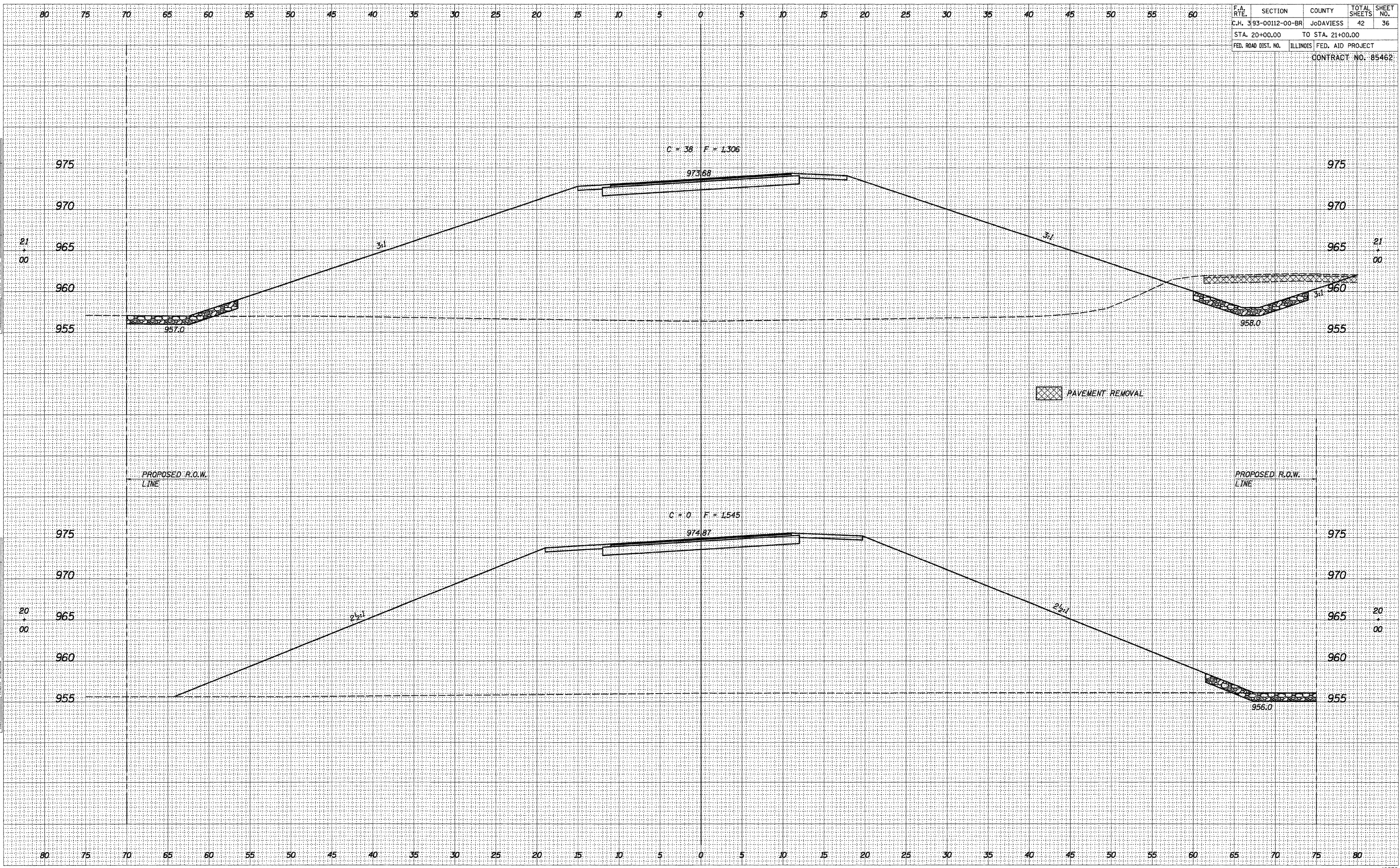
DATE	BY

SURVEYED	PLOTTED	CHECKED
NO.	NO.	NO.
DATE	DATE	DATE

DATE	BY

SURVEYED	PLOTTED	CHECKED
NO.	NO.	NO.
DATE	DATE	DATE

PLOT DATE = 1/11/07
 PLOT SCALE = 1" = 50'
 USER NAME = S. PRICE

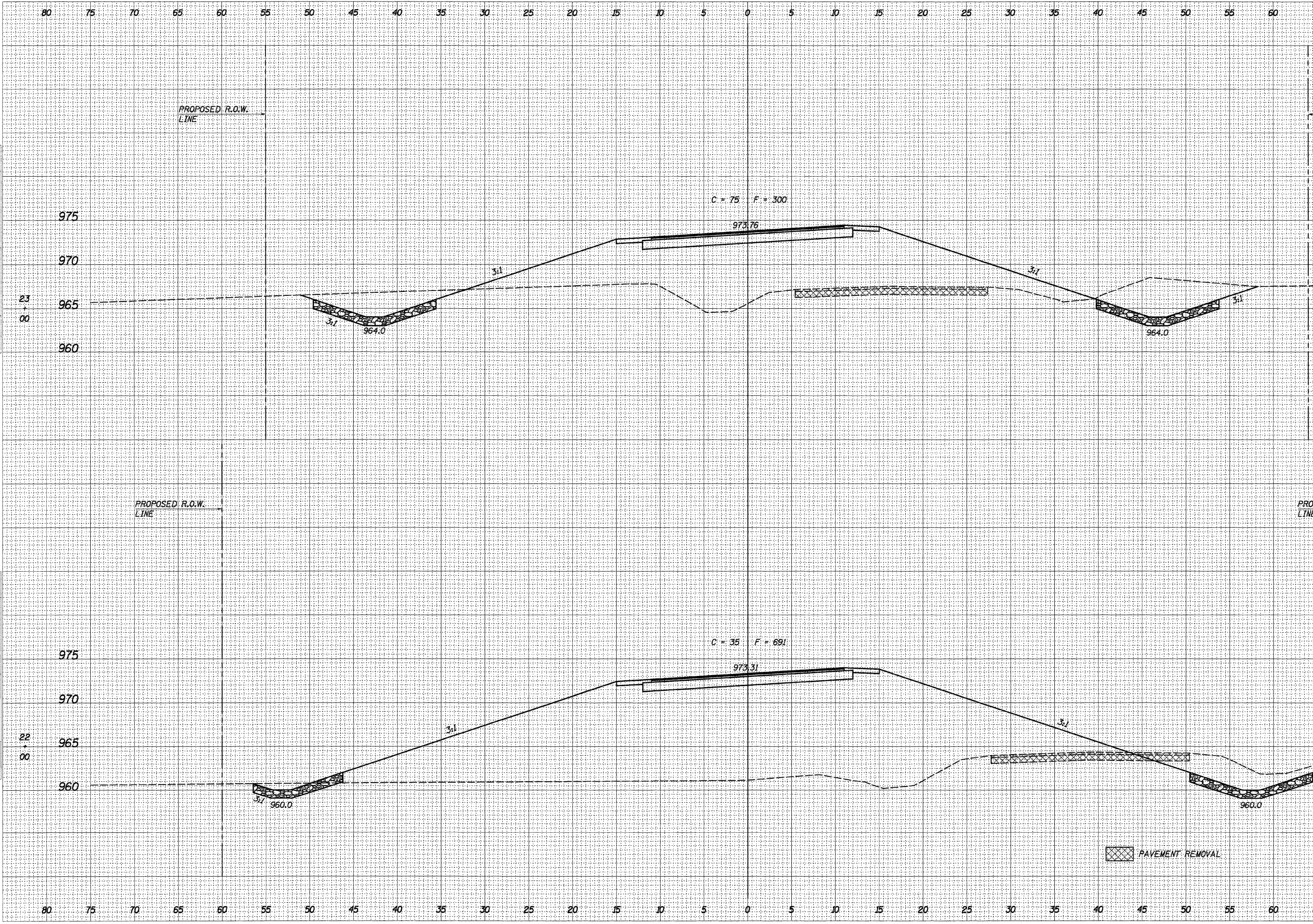


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR	JO DAVIESS		42	37
STA. 22+00.00		TO STA. 23+00.00		
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			
CONTRACT NO. 85462				

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

PLOT DATE = 1/11/87
 PLOT SCALE = 1" = 50'
 USER NAME = S. PRICE



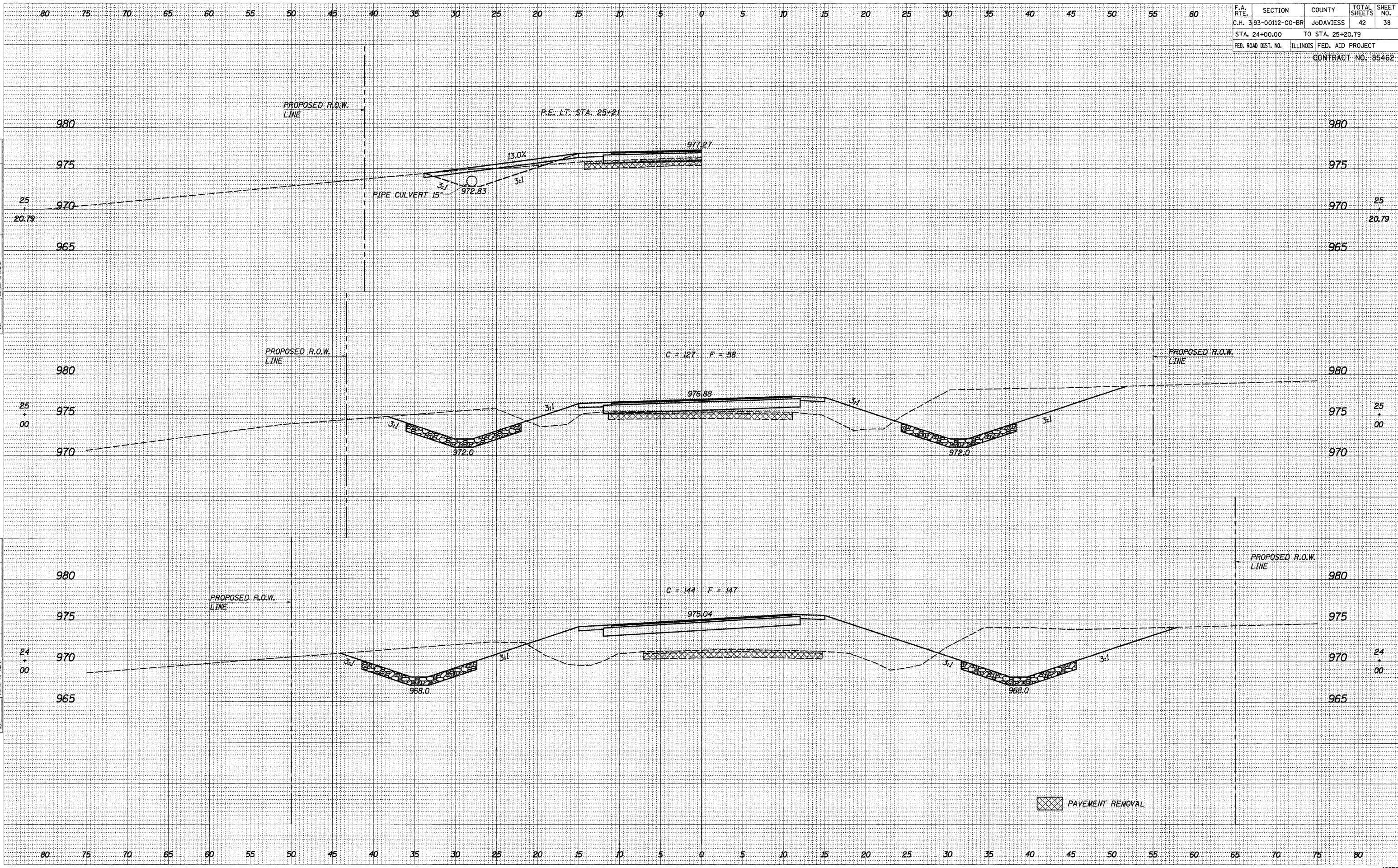
PAVEMENT REMOVAL

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR		JO DAVIESS	42	38
STA. 24+00.00		TO STA. 25+20.79		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 85462				

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	REPLATE
NO.	AREAS CHECKED

PLOT DATE = 1/17/87
 PLOT SCALE = 1" = 40'
 USER NAME = S. PRICE

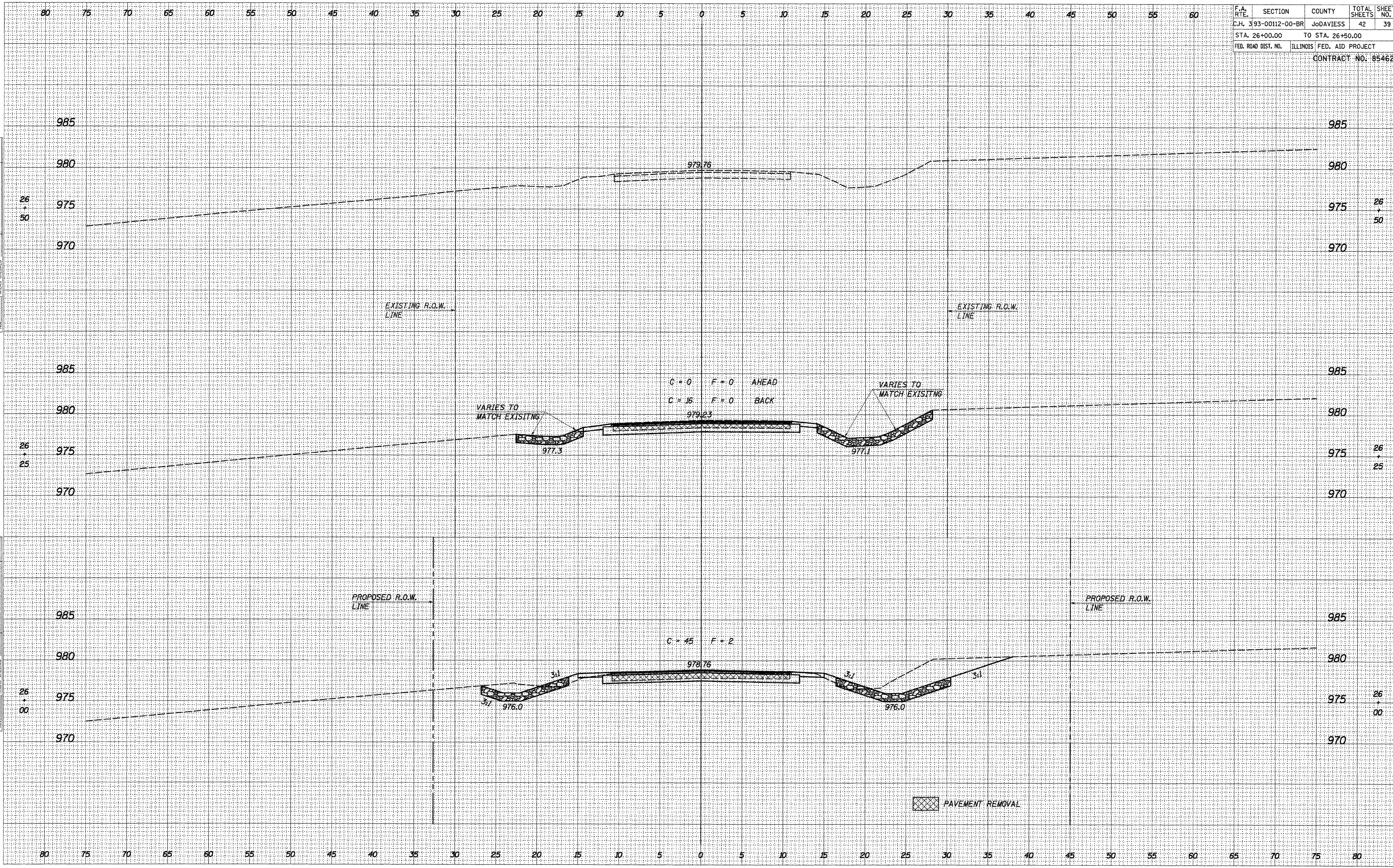


F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 393-00112-00-BR		JO DAVIESS	42	39
STA. 26+00.00		TO STA. 26+50.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 85462				

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

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

PLOT DATE = 1/11/87
 PLOT SCALE = 5/8"
 USER NAME = S. PRICE

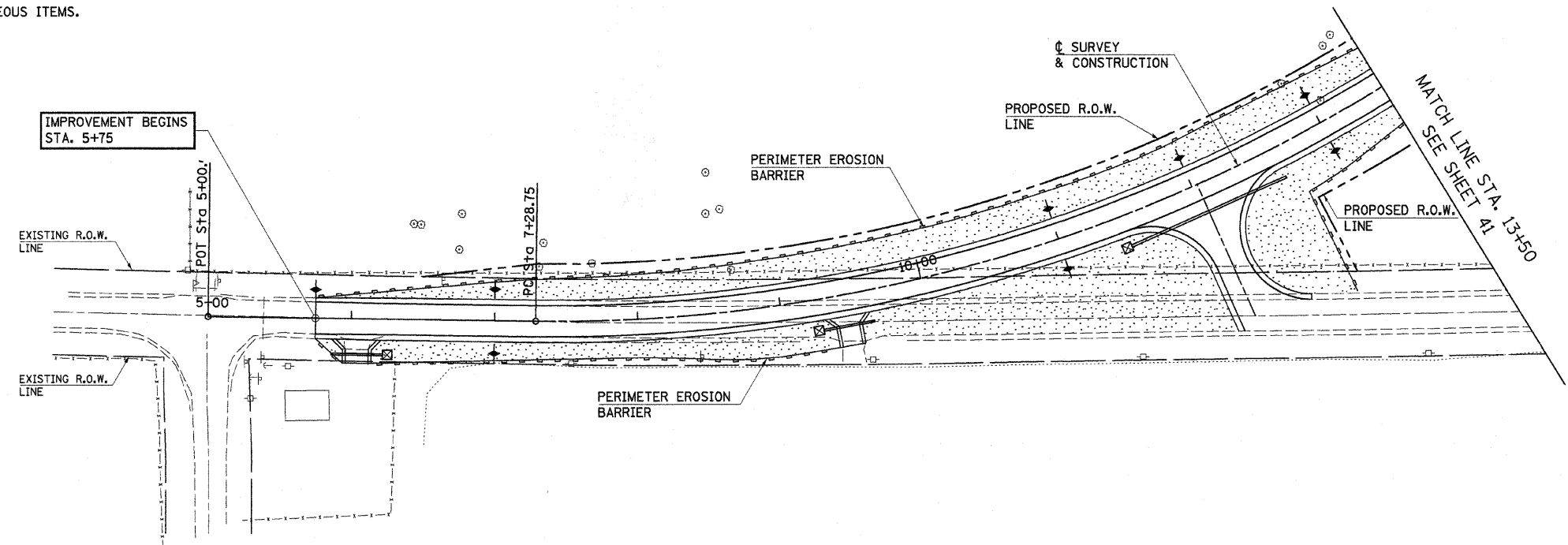


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVIESS	42	40
ILLINOIS				

CONTRACT NO. 85462

DESCRIPTION OF INTENDED SEQUENCE OF MAJOR CONSTRUCTION ACTIVITIES WHICH WILL DISTURB EARTH AND LEAD TO POSSIBLE EROSION FOR MAJOR PORTIONS OF THE CONSTRUCTION SITE:

1. PLACEMENT OF PERIMETER EROSION CONTROL FENCE PRIOR TO THE COMMENCEMENT OF ANY ROAD OR BRIDGE WORK. SEE STD. 280001.
2. CONSTRUCTION OF THE REPLACEMENT STRUCTURE.
3. PLACEMENT OF ROADWAY EMBANKMENT TO RAISE THE ROADWAY TO THE PROPOSED GRADE.
4. REMOVAL OF EXISTING STRUCTURE
5. REGRADING OF EXISTING ROADWAY
6. DRAINAGE STRUCTURES, INCLUDING DITCHES, WILL BE INSTALLED BEFORE AND/OR DURING THE COMPLETION OF THE EMBANKMENT.
7. PLACEMENT AND MAINTENANCE OF TEMPORARY EROSION CONTROL.
8. PLACEMENT OF PERMANENT EROSION CONTROL.
9. REMOVAL AND PROPER CLEAN UP OF TEMPORARY EROSION CONTROL.
10. FINAL GRADING, PLACING AGGREGATE AND OTHER MISCELLANEOUS ITEMS.



TEMPORARY EROSION CONTROL:	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
PERMANENT EROSION CONTROL:	
	SEEDING CLASS 2, FERTILIZERS, & MULCH, METHOD 2
	STONE RIPRAP DITCH

TEMPORARY DITCH CHECKS

LT. STA. 5+75	=	1 EACH
LT. & RT. STA. 7+25	=	2 EACH
LT. & RT. STA. 11+00	=	2 EACH
LT. STA. 12+00	=	1 EACH
LT. & RT. STA. 13+00	=	2 EACH
LT. & RT. STA. 14+00	=	2 EACH
RT. STA. 14+25	=	1 EACH
RT. STA. 14+50	=	1 EACH
RT. STA. 14+75	=	1 EACH
RT. STA. 15+00	=	1 EACH
RT. STA. 20+00	=	1 EACH
LT. & RT. STA. 21+00	=	2 EACH
LT. STA. 21+50	=	1 EACH
LT. & RT. STA. 22+00	=	2 EACH
LT. & RT. STA. 22+50	=	2 EACH
LT. & RT. STA. 23+00	=	2 EACH
LT. & RT. STA. 23+50	=	2 EACH
LT. & RT. STA. 24+00	=	2 EACH
LT. & RT. STA. 24+50	=	2 EACH
LT. & RT. STA. 25+00	=	2 EACH
LT. & RT. STA. 25+50	=	2 EACH
LT. & RT. STA. 26+00	=	2 EACH
TOTAL	=	36 EACH

INLET AND PIPE PROTECTION

RT. STA. 6+22	=	1 EACH
RT. STA. 9+27	=	1 EACH
RT. STA. 11+46	=	1 EACH
RT. STA. 15+36	=	1 EACH
RT. STA. 15+73	=	1 EACH
LT. STA. 25+39	=	1 EACH
TOTAL	=	6 EACH

BILL OF MATERIAL

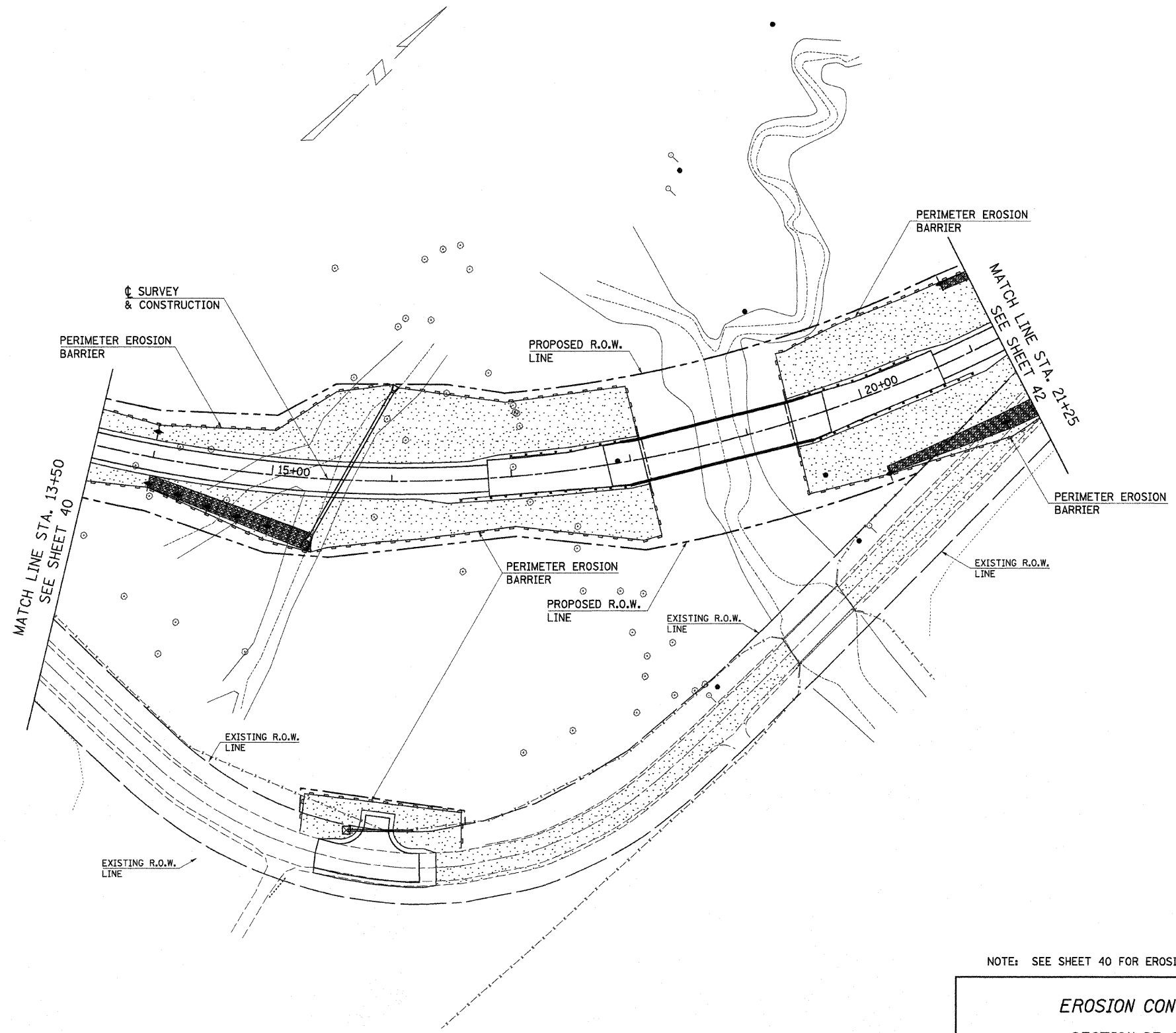
ITEM	UNIT	QUANTITY
TEMPORARY EROSION CONTROL SEEDING	POUND	700
TEMPORARY DITCH CHECKS	EACH	36
PERIMETER EROSION BARRIER	FOOT	4980
INLET AND PIPE PROTECTION	EACH	6

THE ABOVE QUANTITIES ARE ESTIMATES 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.

EROSION CONTROL PLAN
SECTION 93-00112-00-BR
JoDAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVISS	42	41
		ILLINOIS		

CONTRACT NO. 85462



TEMPORARY EROSION CONTROL:	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
PERMANENT EROSION CONTROL:	
	SEEDING CLASS 2, FERTILIZERS, & MULCH, METHOD 2
	STONE RIPRAP DITCH

NOTE: SEE SHEET 40 FOR EROSION CONTROL QUANTITIES.

EROSION CONTROL PLAN
 SECTION 93-00112-00-BR
 JoDAVISS COUNTY
 COUNTY HIGHWAY 3
 STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 PROFESSIONAL ENGINEERS, ARCHITECTS, SURVEYORS, AND PLANNERS

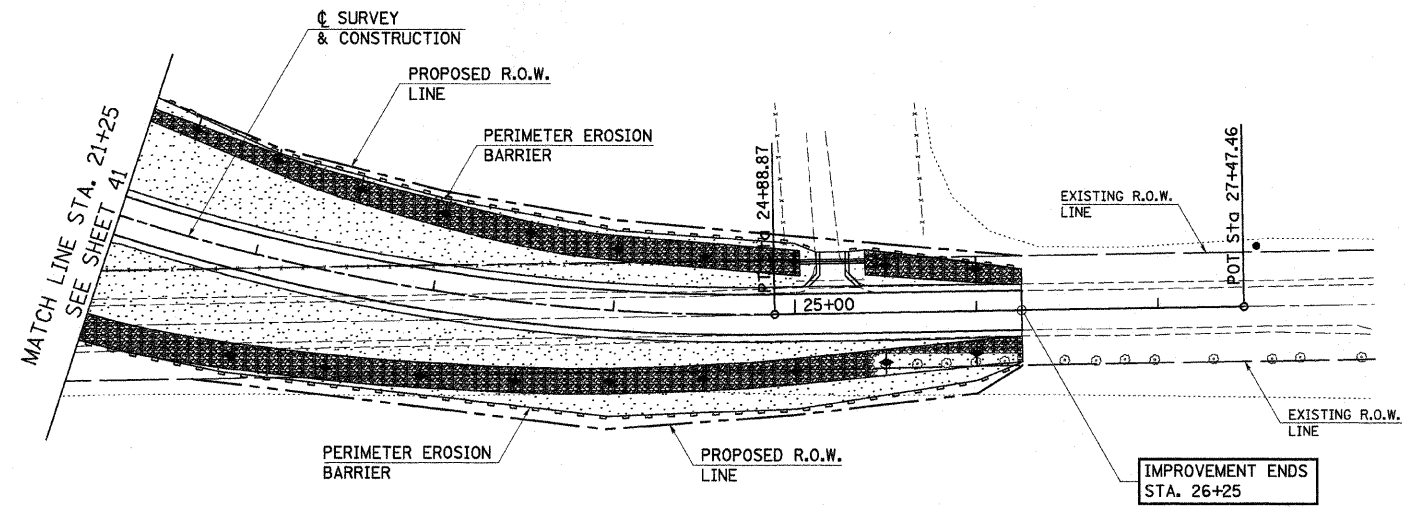
DRAWN: S.A.P.
 DATE: 07/16/08

CHECKED: G.J.C.
 DATE: 01/12/09

JOB NO.: 46859
 FILE: EROSION.DGN
 DATE: 03/24/09

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 3	93-00112-00-BR	JoDAVIESS	42	42
ILLINOIS				

CONTRACT NO. 85462



TEMPORARY EROSION CONTROL:	
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECK
	INLET AND PIPE PROTECTION
PERMANENT EROSION CONTROL:	
	SEEDING CLASS 2, FERTILIZERS, & MULCH, METHOD 2
	STONE RIPRAP DITCH

NOTE: SEE SHEET 40 FOR EROSION CONTROL QUANTITIES.

EROSION CONTROL PLAN
SECTION 93-00112-00-BR
JoDAVIESS COUNTY
COUNTY HIGHWAY 3
STATION 18+74.60

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

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PERFORMING ENGINEERING, ARCHITECTURE, SURVEYING AND ENVIRONMENTAL SERVICES

DRAWN: S.A.P.
DATE: 07/16/08

CHECKED: G.J.C.
DATE: 01/12/09

JOB NO.: 46859
FILE: EROSION.DGN
DATE: 03/24/09