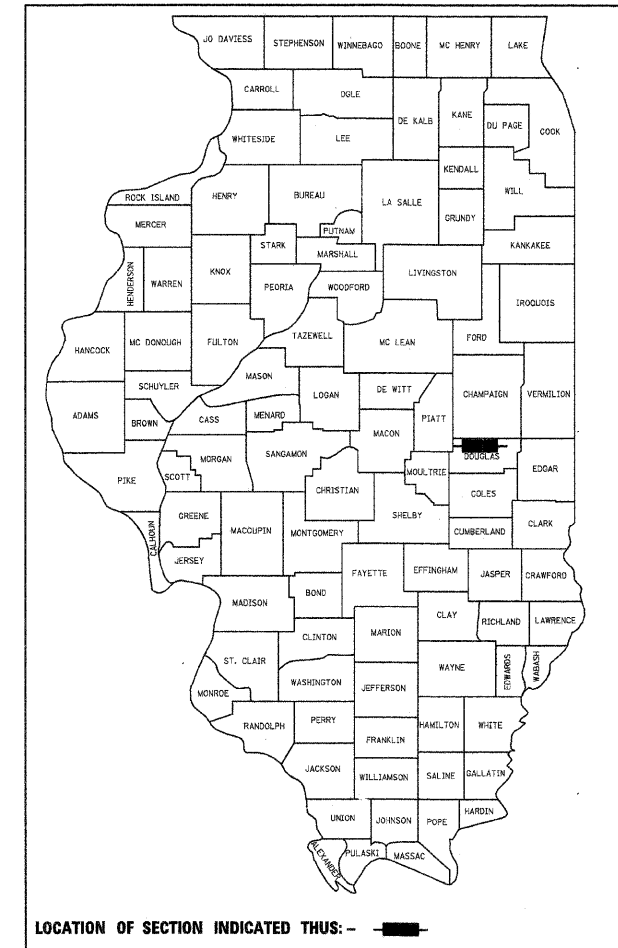


ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 56	09-05123-01-BR	DOUGLAS	19	1
GARRETT ROAD DIST.		ILLINOIS		

CONTRACT NO. 91433

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

SECTION 09-05123-01-BR
DOUGLAS COUNTY
GARRETT ROAD DISTRICT
PROJECT NO. BROS-0041(098)
T.R. 56
C-95-323-10



CLASSIFICATION: LOCAL ROAD (NON-URBAN)
DESIGN VOLUME: UNDER 250 ADT
CURRENT ADT: 116 (2011)
DESIGN SPEED: 30 MPH

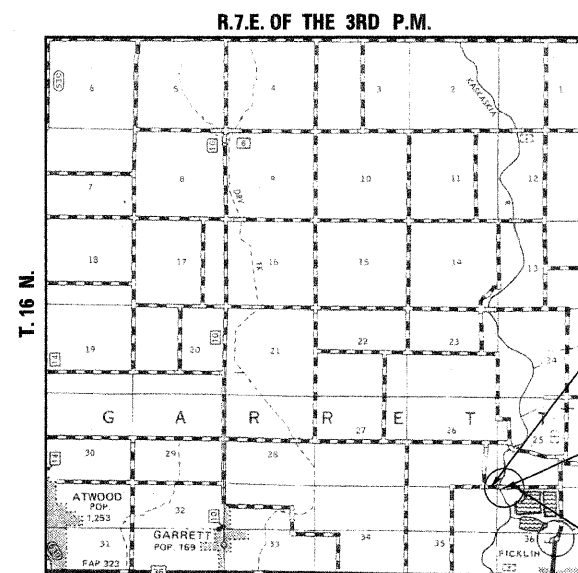
TOLL FREE JOINT UTILITY LOCATING
INFORMATION FOR EXCAVATORS (J.U.L.I.E.)
TELEPHONE NUMBER 1-800-892-0123

PASSED	<u>1/5</u>	20 <u>11</u>
	<i>Ed J. ...</i>	ROAD DISTRICT COMMISSIONER
APPROVED	<u>1/5</u>	20 <u>11</u>
	<i>J. ...</i>	COUNTY ENGINEER
PASSED	<u>2/3</u>	20 <u>11</u>
	<i>D. ...</i>	DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS
RELEASED FOR BID BASED ON LIMITED REVIEW	<u>February 3</u>	20 <u>11</u>
	<i>J. ...</i>	DEPUTY DIRECTOR OF HIGHWAYS, REGION THREE ENGINEER
		STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SHEET NO.	TITLE
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES, GENERAL NOTES & TYPICAL SECTIONS
3.	PLAN AND PROFILE SHEET
4.-13	BRIDGE PLANS
14.-19.	STATION CROSS SECTIONS

STANDARDS	
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-05	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

SCALES	
PLAN	0' 50' 100'
PROFILE HORIZ.	0' 50' 100'
PROFILE VERT.	0' 5' 10'
CROSS SECTIONS	0' 5' 10'



LOCATION PLAN
GROSS LENGTH OF SECTION = 750.00 FEET = 0.142 MILES
NET LENGTH OF SECTION = 750.00 FEET = 0.142 MILES
SCALE IN MILES

IMPROVEMENT BEGINS
STA. 11+00

STA. 14+90.00 - PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE (21" DEPTH), THREE SPANS @ 50'-0", 58'-0", 50'-0"; 159'-6" BK. TO BK. ABUTS.; 27'-0" ROADWAY; NO SKEW
EXISTING S.N. 021-4012
PROPOSED S.N. 021-4307

IMPROVEMENT ENDS
STA. 18+50



Gary J. Cartwright 12-29-10
ILLINOIS PROFESSIONAL NO. 43408
EXPIRES 11-30-11

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

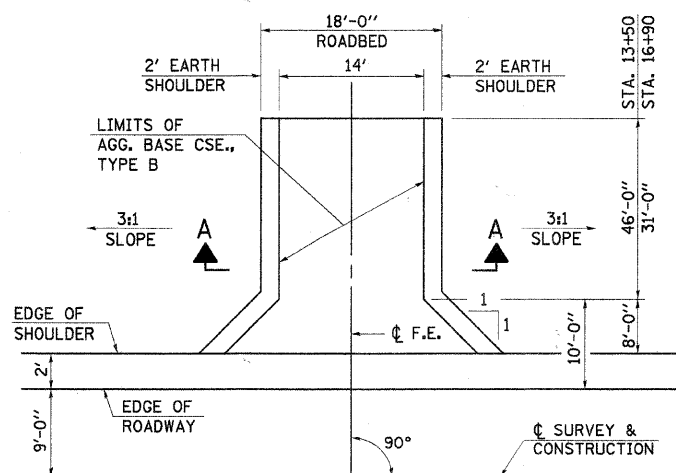
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEMONT, IL ROCKFORD, IL ROCKFORD, IL MONROE, IL SPRINGFIELD, IL

SUMMARY OF QUANTITIES

NUMBER	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	274
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	118
20100500	TREE REMOVAL, ACRES	ACRE	0.25
20200100	EARTH EXCAVATION	CU YD	697
20300100	CHANNEL EXCAVATION	CU YD	696
20400800	FURNISHED EXCAVATION	CU YD	2,346
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	98
28000305	TEMPORARY DITCH CHECKS	FOOT	60
28000400	PERIMETER EROSION BARRIER	FOOT	1,522
28000500	INLET AND PIPE PROTECTION	EACH	2
35101400	AGGREGATE BASE COURSE, TYPE B	TON	722
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	42.4
50300280	CONCRETE ENCASEMENT	CU YD	43.7
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	4,266
50800105	REINFORCEMENT BARS	POUND	5,560
50900205	STEEL RAILING, TYPE S1	FOOT	317
51201600	FURNISHING STEEL PILES HP12X53	FOOT	699
51202305	DRIVING PILES	FOOT	699
51203600	TEST PILE STEEL HP12X53	EACH	3
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	44
542D1063	PIPE CULVERTS, CLASS D, TYPE 2 18"	FOOT	66
67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.7
X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	377
X5020501	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 1	EACH	1
X5020502	UNDERWATER STRUCTURE EXCAVATION PROTECTION - LOCATION 2	EACH	1
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

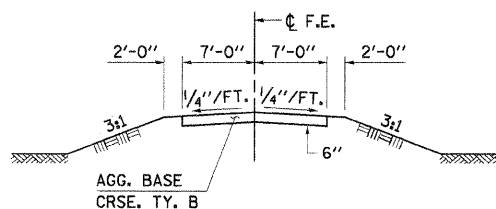
*SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS



FIELD ENTRANCE DETAIL

F.E. LT. STA. 13+50
F.E. LT. STA. 16+90



SECTION A-A

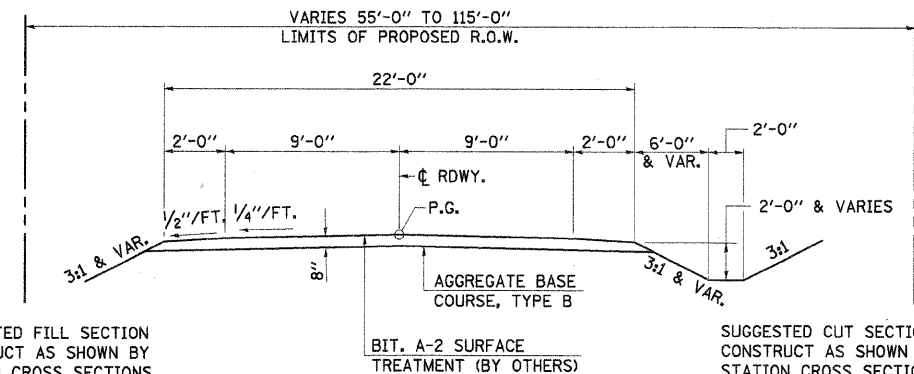
GENERAL NOTES

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AND AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

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

SEEDING, CLASS 2 (SPECIAL) = 0.7 ACRE

ALL TREES BETWEEN THE LIMITS SHOWN BELOW WHICH INTERFERE WITH THE CONSTRUCTION SHALL BE REMOVED ONLY AS DIRECTED BY THE ENGINEER.



TYPICAL PROPOSED CROSS SECTION

STA. 11+50 TO STA. 18+00

TRANSITION FROM EXISTING ROADWAY TO PROPOSED ROADWAY TO BE CONSTRUCTED FROM STA. 11+00 TO STA. 11+50 AND FROM STA. 18+00 TO STA. 18+50.

SUGGESTED FILL SECTION CONSTRUCT AS SHOWN BY STATION CROSS SECTIONS

SUGGESTED CUT SECTION CONSTRUCT AS SHOWN BY STATION CROSS SECTIONS

TREE REMOVAL (6 TO 15 UNITS DIAMETER)

25' LT. STA. 11+47	=	10 UNIT
41' LT. STA. 11+51	=	12 UNIT
32' LT. STA. 11+86	=	8 UNIT
37' LT. STA. 11+86	=	8 UNIT
31' LT. STA. 11+94	=	14 UNIT
42' LT. STA. 12+12	=	8 UNIT
35' LT. STA. 12+33	=	12 UNIT
35' LT. STA. 12+58	=	12 UNIT
32' LT. STA. 12+59	=	10 UNIT
32' LT. STA. 12+71	=	8 UNIT
30' LT. STA. 12+77	=	10 UNIT
32' LT. STA. 12+81	=	6 UNIT
32' LT. STA. 12+81	=	10 UNIT
33' LT. STA. 12+86	=	14 UNIT
29' LT. STA. 13+04	=	8 UNIT
30' LT. STA. 13+20	=	14 UNIT
51' LT. STA. 14+28	=	12 UNIT
57' LT. STA. 14+30	=	10 UNIT
57' LT. STA. 14+30	=	10 UNIT
22' RT. STA. 12+17	=	8 UNIT
20' RT. STA. 12+53	=	14 UNIT
20' RT. STA. 12+53	=	14 UNIT
38' RT. STA. 14+18	=	8 UNIT
39' RT. STA. 14+20	=	12 UNIT
31' RT. STA. 14+42	=	6 UNIT
22' RT. STA. 14+50	=	6 UNIT
37' RT. STA. 14+56	=	10 UNIT
TOTAL	=	274 UNIT

TREE REMOVAL (OVER 15 UNITS DIAMETER)

32' LT. STA. 11+98	=	16 UNIT
32' LT. STA. 12+30	=	18 UNIT
31' LT. STA. 13+35	=	18 UNIT
21' RT. STA. 13+30	=	26 UNIT
35' RT. STA. 13+84	=	40 UNIT
TOTAL	=	118 UNIT

TREE REMOVAL, ACRE

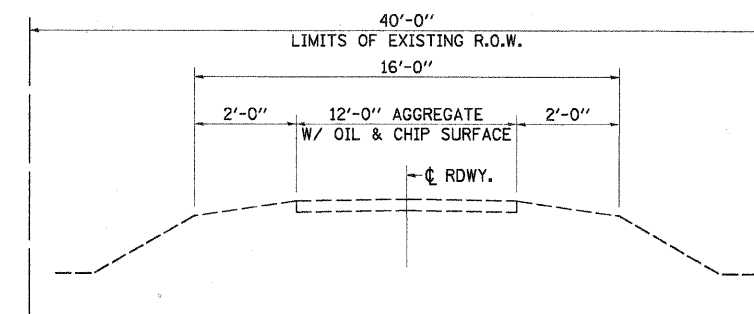
LT. STA. 15+19 TO LT. STA. 17+34
& RT. STA. 15+85 TO RT. STA. 18+50
TOTAL = 0.25 ACRE

TEMPORARY DITCH CHECKS

LT. STA. 14+50	=	20 FOOT
LT. STA. 15+50	=	20 FOOT
RT. STA. 15+50	=	20 FOOT
TOTAL	=	60 FOOT

INLET AND PIPE PROTECTION

LT. STA. 13+17	=	1 EACH
LT. STA. 17+12	=	1 EACH
TOTAL	=	2 EACH



EXISTING TYPICAL CROSS SECTION

APPLICATION RATES USED IN QUANTITY CALCULATIONS

AGGREGATE BASE, COURSE	2.05 TON/CU YD
STONE RIPRAP (SPECIAL)	1.65 TON/CU YD

TEMPORARY EROSION CONTROL

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

TEMPORARY EROSION CONTROL SEEDINGS	=	98 POUND
PERIMETER EROSION CONTROL BARRIER	=	1,522 FOOT
TEMPORARY DITCH CHECKS	=	60 FOOT
INLET AND PIPE PROTECTION	=	2 EACH

FILE NAME = 09-455_SUMTYP.DGN

DESIGNED - G.J.C.	REVISED -
DRAWN - S.A.P.	REVISED -
CHECKED - A.L.S.	REVISED -
DATE - 12/22/10	REVISED -

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

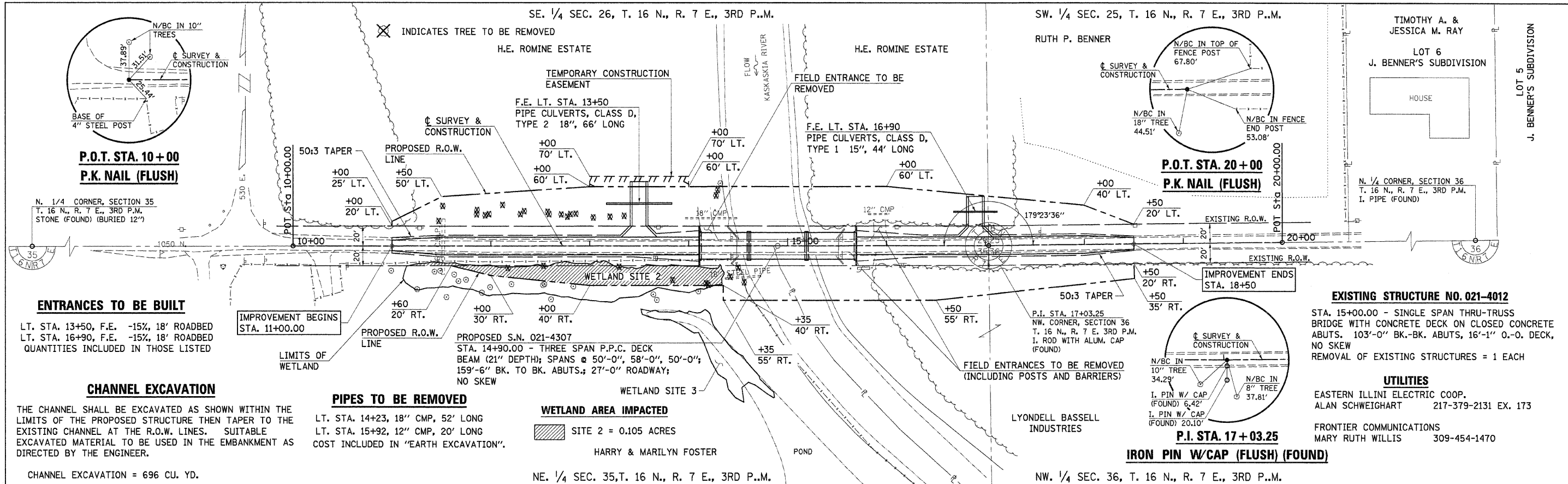
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

SUMMARY OF QUANTITIES, GENERAL NOTES AND TYPICAL CROSS SECTIONS

SCALE: N/A

PROPOSED STRUCTURE @ STA. 14+90.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	2
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



ENTRANCES TO BE BUILT
 LT. STA. 13+50, F.E. -15%, 18' ROADBED
 LT. STA. 16+90, F.E. -15%, 18' ROADBED
 QUANTITIES INCLUDED IN THOSE LISTED

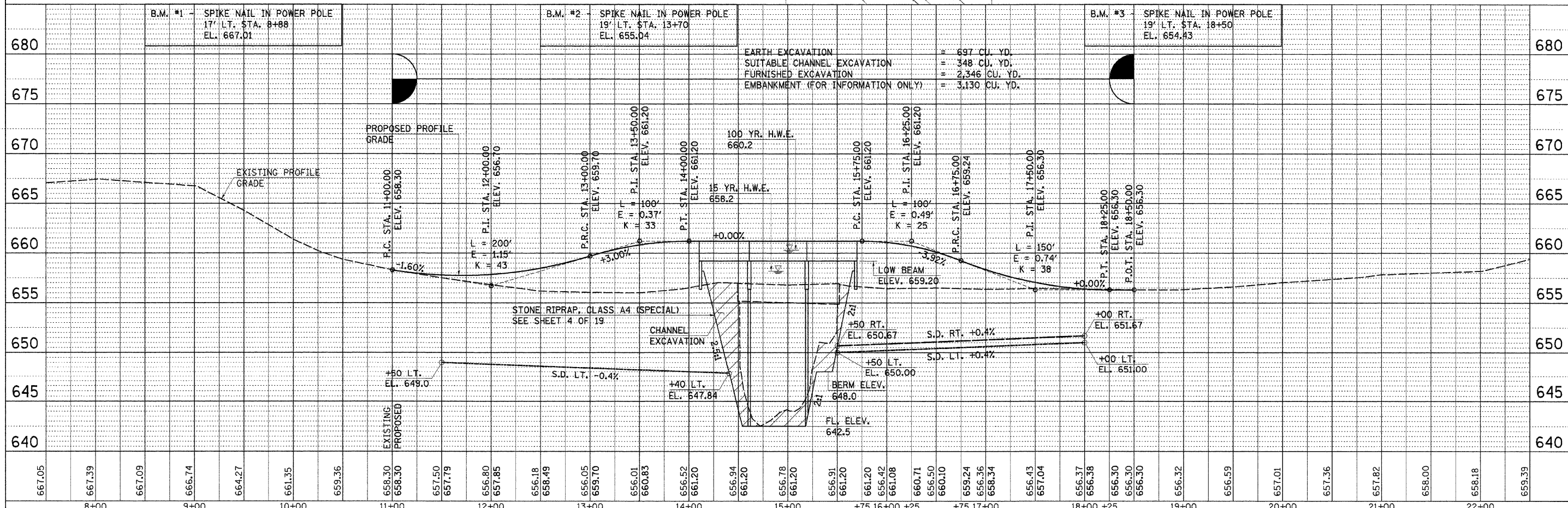
CHANNEL EXCAVATION
 THE CHANNEL SHALL BE EXCAVATED AS SHOWN WITHIN THE LIMITS OF THE PROPOSED STRUCTURE THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. SUITABLE EXCAVATED MATERIAL TO BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER.
 CHANNEL EXCAVATION = 696 CU. YD.

PIPES TO BE REMOVED
 LT. STA. 14+23, 18" CMP, 52' LONG
 LT. STA. 15+92, 12" CMP, 20' LONG
 COST INCLUDED IN "EARTH EXCAVATION".

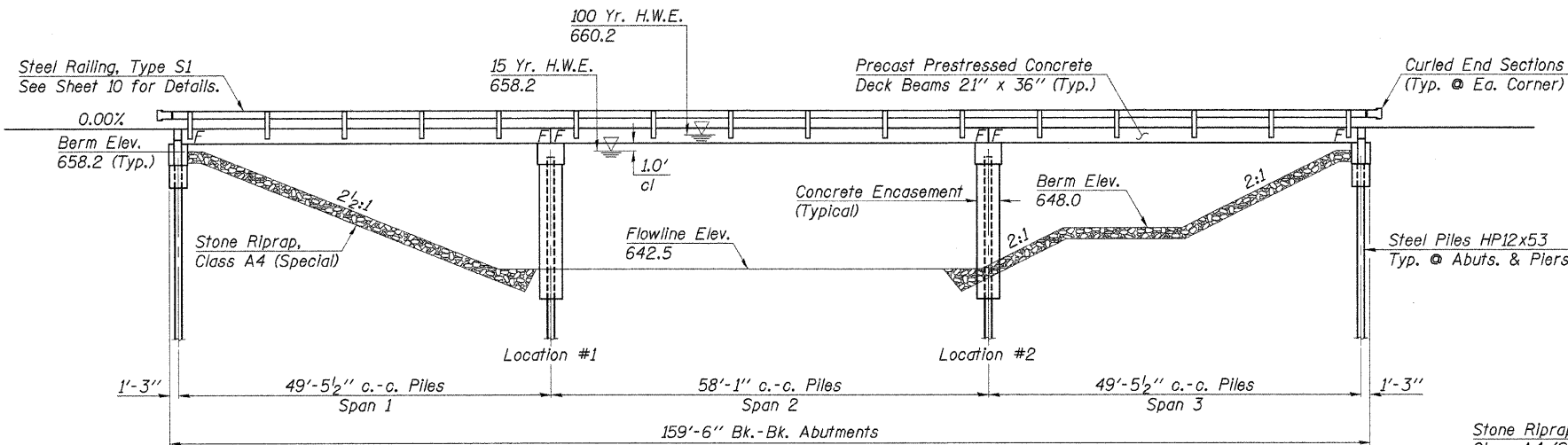
WETLAND AREA IMPACTED
 WETLAND SITE 2 = 0.105 ACRES
 HARRY & MARILYN FOSTER POND

EXISTING STRUCTURE NO. 021-4012
 STA. 15+00.00 - SINGLE SPAN THRU-TRUSS BRIDGE WITH CONCRETE DECK ON CLOSED CONCRETE ABUTS. 103'-0" BK.-BK. ABUTS, 16'-1" O.-O. DECK, NO SKEW
 REMOVAL OF EXISTING STRUCTURES = 1 EACH

UTILITIES
 EASTERN ILLINI ELECTRIC COOP. ALAN SCHWEIGHART 217-379-2131 EX. 173
 FRONTIER COMMUNICATIONS MARY RUTH WILLIS 309-454-1470



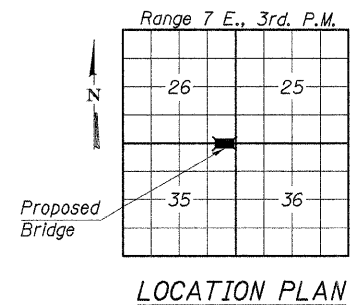
FILE NAME = 09-455_P&P.DGN	DESIGNED - G.J.C.	REVISED -	4440 ASH GROVE SPRINGFIELD, IL. 62711 (217) 793-8600 www.fehr-graham.com	FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS PREPONT, IL. ROCKFORD, IL. ROCHELLE, IL. MONROE, WI. SPRINGFIELD, IL.	PLAN & PROFILE - T.R. 56 OVER KASKASKIA RIVER	TWP. RTE. 56	SECTION 09-05123-01-BR	COUNTY DOUGLAS	TOTAL SHEETS 19	SHEET NO. 3	CONTRACT NO. 91433
PLOTTED BY = S.A.P.	DRAWN - S.A.P.	REVISED -				STA. 10+00.00 TO STA. 20+00.00	GARRETT ROAD DIST. ILLINOIS				
CHECKED BY = G.J.C.	CHECKED - A.L.S.	REVISED -									
DATE = 01/20/18	DATE = 12/21/10	REVISED -									



ELEVATION

DESIGN SCOUR ELEVATION TABLE

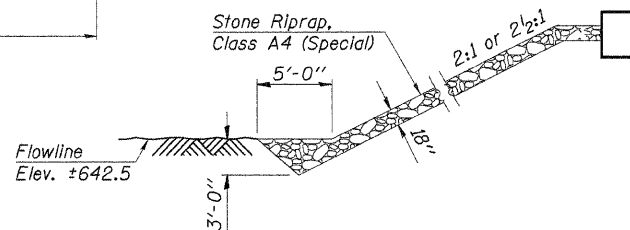
Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	653.3	634.0	634.0	653.3



LOCATION PLAN

GENERAL NOTES

See Proposal Booklet for Boring data.
 Reinforcement bars shall conform to the requirements of ASTM A706 Grade 60.
 The Contractor shall drive one steel HP12x53 test pile in a permanent location at the west abutment and one steel HP12x53 test pile in a permanent location at each pier as directed by the Engineer, before ordering the remainder of piles.
 Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
 Structure Excavation will not be measured for payment but shall be included in the unit price bid for "Concrete Structures" or "Concrete Encasement."



SECTION A-A

Note: Excavation will not be paid for as a separate item and shall be considered as included in "Stone Riprap, Class A4 (Special)".

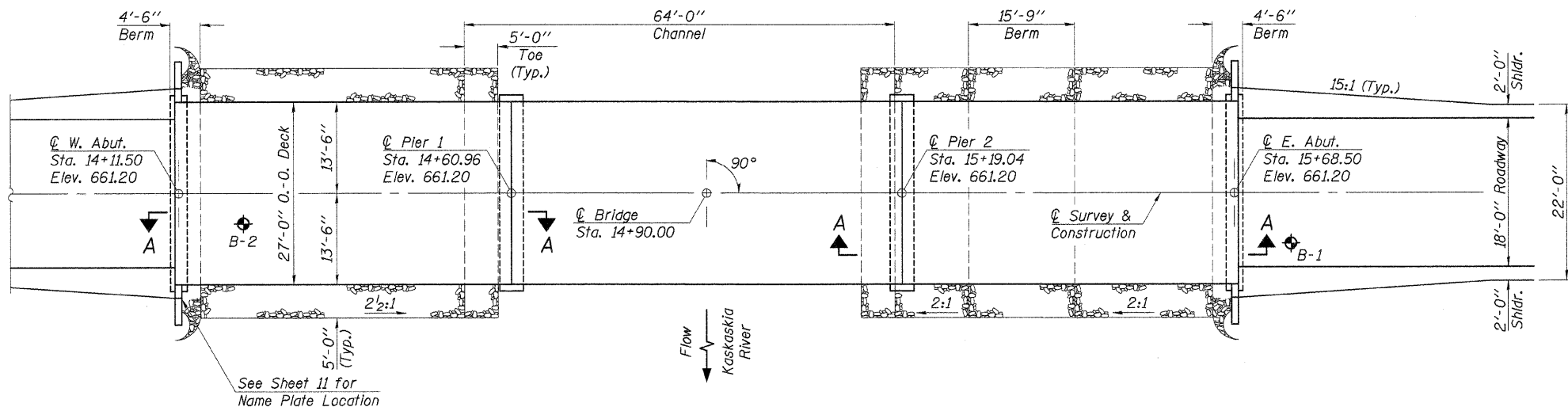
KASKASKIA RIVER
 BUILT 20__ BY
 GARRETT ROAD DISTRICT
 DOUGLAS COUNTY
 SEC. 09-05123-01-BR
 STR. NO. 021-4307
 LOADING HL-93

LETTERING FOR NAME PLATE

See Std. 515001

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	4,266		4,266
Concrete Structures	Cu. Yd.		42.4	42.4
Reinforcement Bars	Pound		5,560	5,560
Steel Railing, Type S1	Foot	317		317
Name Plates	Each		1	1
Furnishing Steel Piles HP12x53	Foot		699	699
Driving Piles	Foot		699	699
Test Pile Steel HP12x53	Each		3	3
Stone Riprap, Class A4 (Special)	Ton		377	377
Concrete Encasement	Cu. Yd.		43.7	43.7
Underwater Structure Excavation Protection - Location 1	Each		1	1
Underwater Structure Excavation Protection - Location 2	Each		1	1



PLAN

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.155
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.288
 Soil Site Class = D

WATERWAY INFORMATION

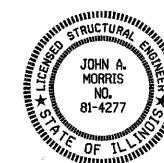
Drainage Area	127 Sq. Mi.
Existing Opening (15 Yr.)	889 Sq. Ft.
Required Opening (15 Yr.)	2,223 Sq. Ft.
Proposed Bridge Opening (15 Yr.)	1,644 Sq. Ft.
Over-The-Road Flow (15 Yr.)	579 Sq. Ft.
Design Discharge (15 Yr.)	4,870 C.F.S.
Created Head (15 Yr.)	0.0 Ft.
Over-The-Road Flow (100 Yr.)	2,240 Sq. Ft.
100 Year Discharge	7,840 C.F.S.
100 Yr. Created Head	0.0 Ft.

DESIGN STRESSES

f_c = 6,000 p.s.i. (Prestressed Beams)
 f_{ci} = 5,000 p.s.i. (Prestressed Beams)
 f_s = 270,000 p.s.i. (Prestressed Strands)
 f_{sl} = 201,960 p.s.i. (Prestressed Strands)
 f_c = 3,500 p.s.i. (Concrete -- Field Units)
 f_y = 60,000 p.s.i. (Reinf. Bars)
 LOADING HL-93
 Design Specifications: 2010 AASHTO LRFD & Interims
 50#/Sq. Ft. included in dead load for future wearing surface.

"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 LRFD Bridge Design Specifications".

John A. Morris
 ILLINOIS STRUCTURAL NO. 4277 (Expires 11/30/12)

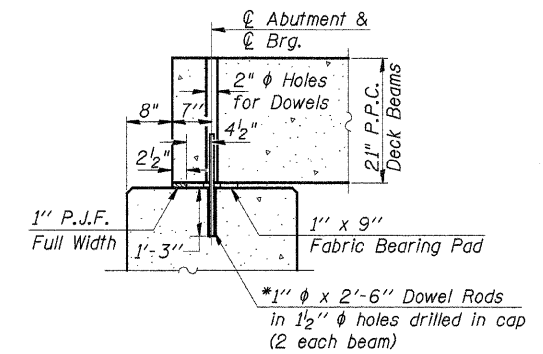
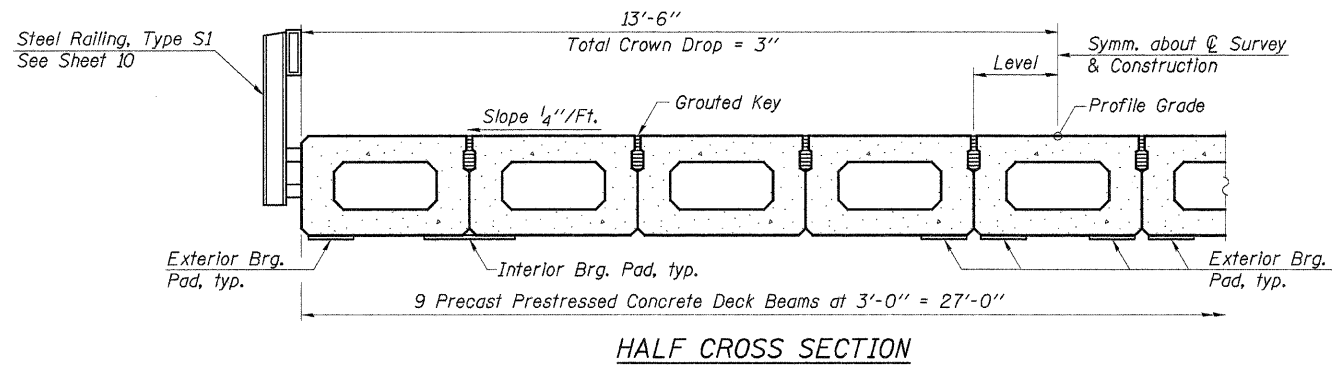


GENERAL PLAN & ELEVATION

SECTION 09-05123-01-BR
 GARRETT ROAD DISTRICT
 DOUGLAS COUNTY
 STATION 14+90.00
 S.N. 021-4307

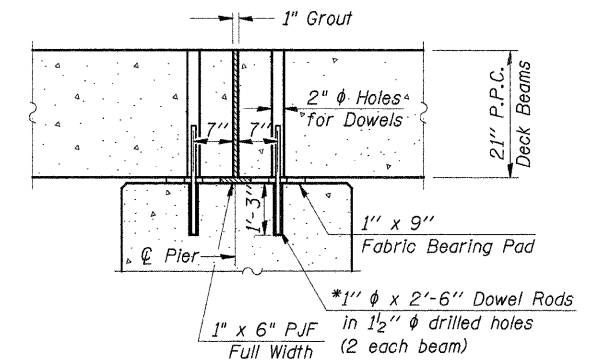
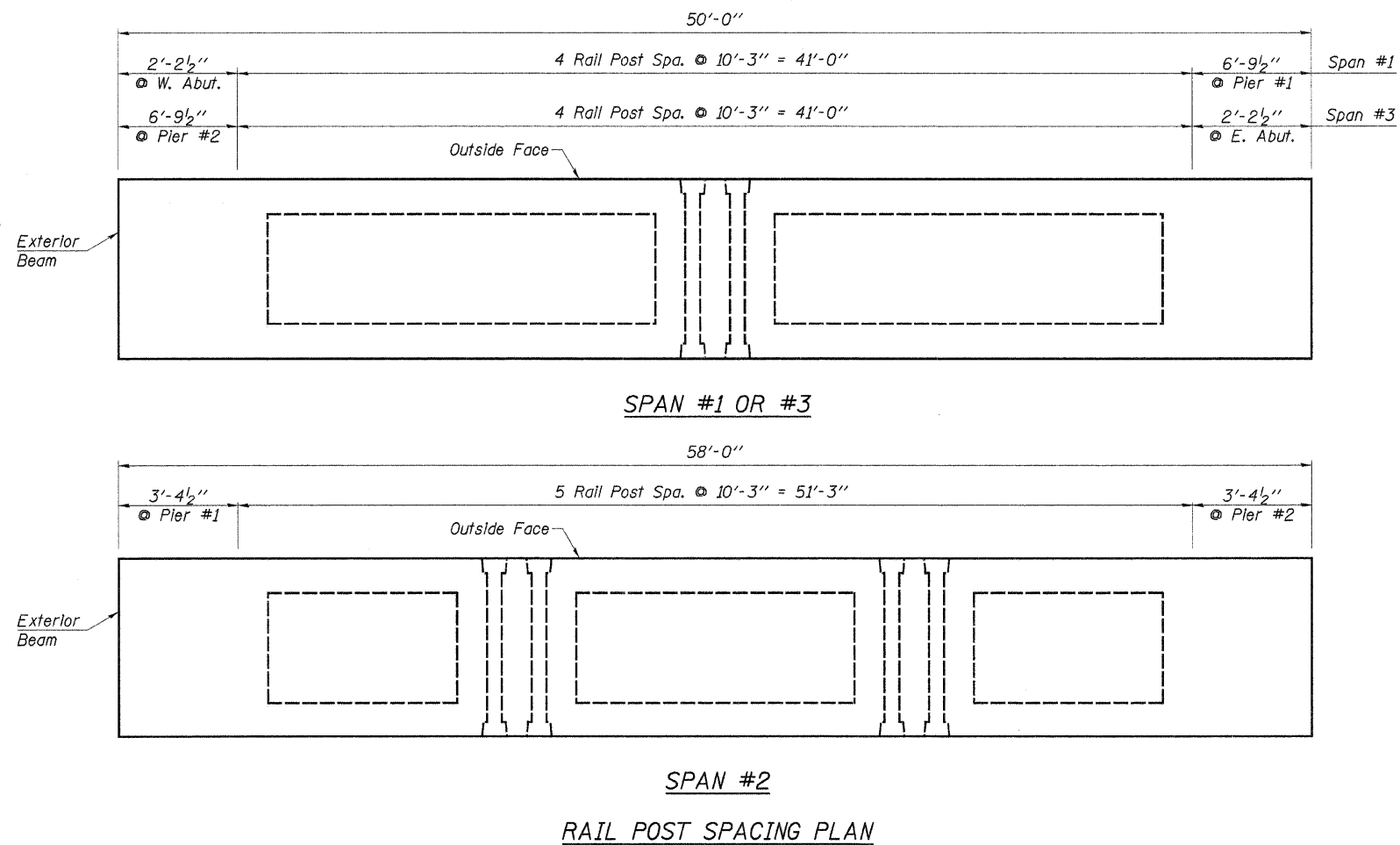
DESIGNED	A.L.S.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.L.S. & A.R.K.

FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS <small>FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL</small>	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	4
4440 ASH GROVE SPRINGFIELD, IL 62711 (271)-793-8600 www.fehr-graham.com			GARRETT ROAD DIST. ILLINOIS		CONTRACT NO. 91433



SEC. THRU ABUT.

* Note: After beams are in place, 1/2" holes shall be drilled into the Substructure, and the dowel rods grouted in place and allowed to cure (Min. 24 Hrs.) prior to grouting shear key.



SEC. AT PIER

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

PDB-2136-0S 03-12-10

FILE: 09-455_SUPER.DGN DATE: 11/08/10

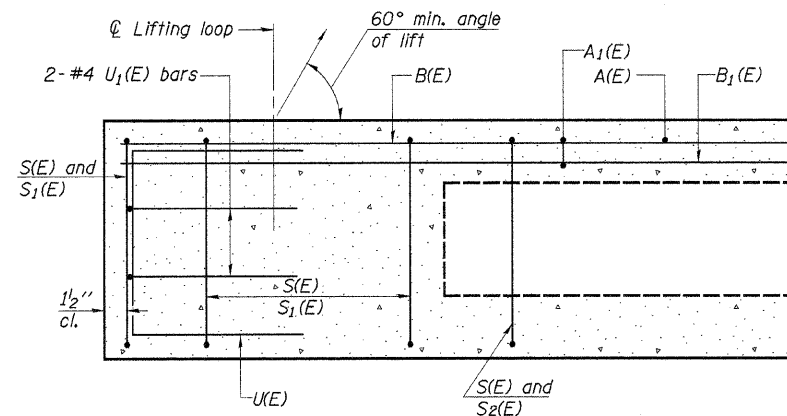
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

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

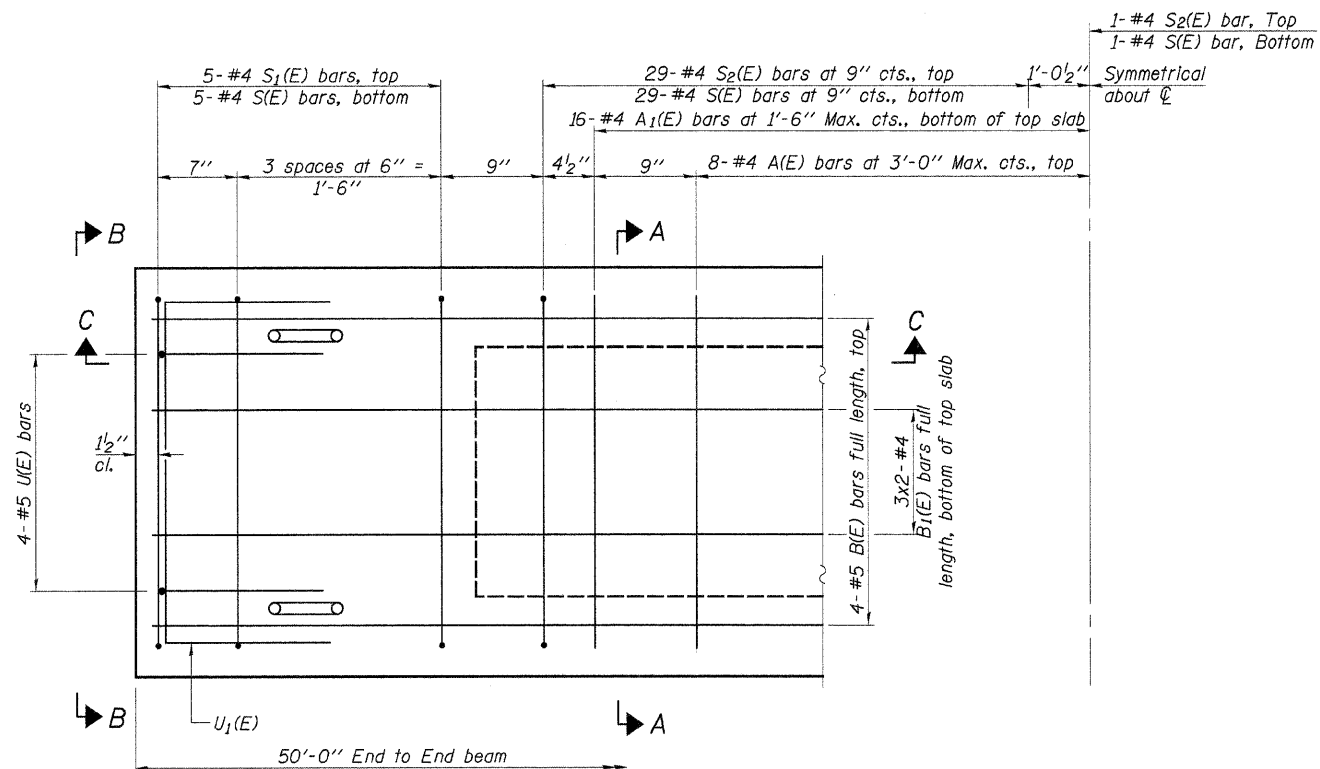
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	5
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	

#09-455

SUPERSTRUCTURE
S.N. 021-4307



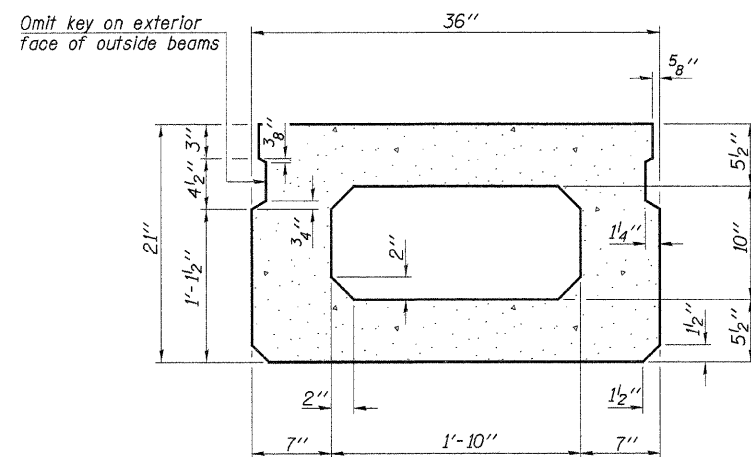
SECTION C-C



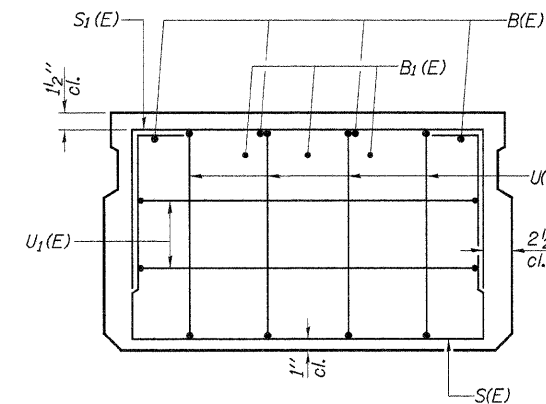
PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

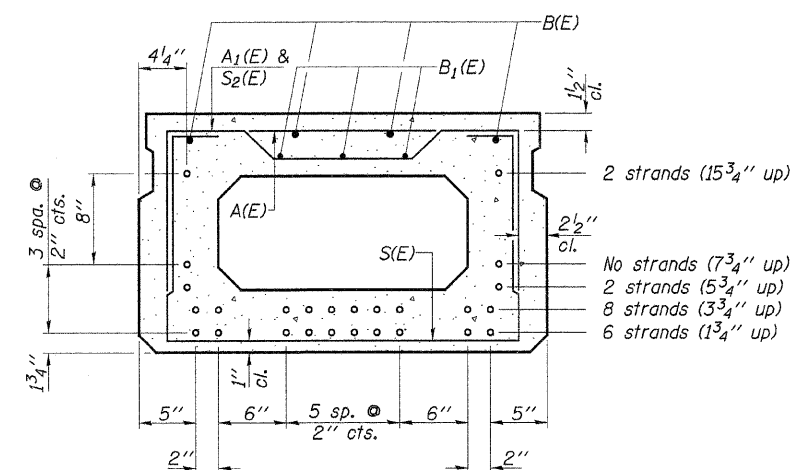
Bars Indicated thus, 3x2-#4 bars etc., indicates 3 lines of bars with 2 lengths per line.



SECTION A-A
(Showing dimensions)



VIEW B-B



Use 18-1/2" ϕ strands at the locations shown.

SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS

#4	2'-0"
#5	2'-6"

BAR LIST

ONE BEAM ONLY - SPANS 1 & 3

(For information only)

Bar	No.	Size	Length	Shape
A(E)	15	#4	2'-7"	—
A1(E)	31	#4	2'-10"	—
B(E)	4	#5	49'-8"	—
B1(E)	6	#4	26'-0"	—
S(E)	69	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	59	#4	5'-2"	□
U(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

Note: See sheet 7 for additional details and Bill of Material. Reinforcement bars designated (E) shall be epoxy coated.

21" X 36" PPC DECK BEAM - SPANS 1 & 3

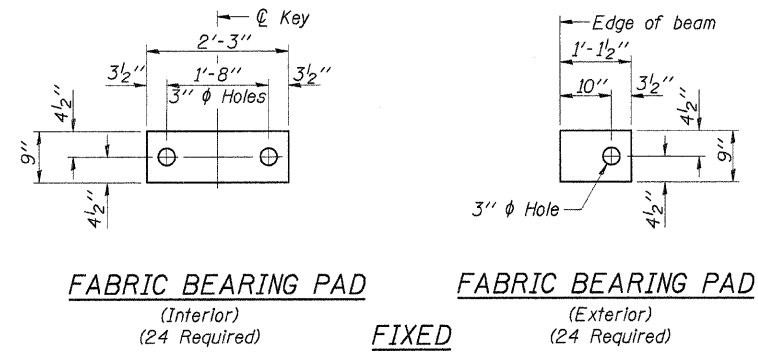
S.N. 021-4307

DESIGNED	A.L.S.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.L.S. & A.R.K.

PDB-2136-0 03-12-10

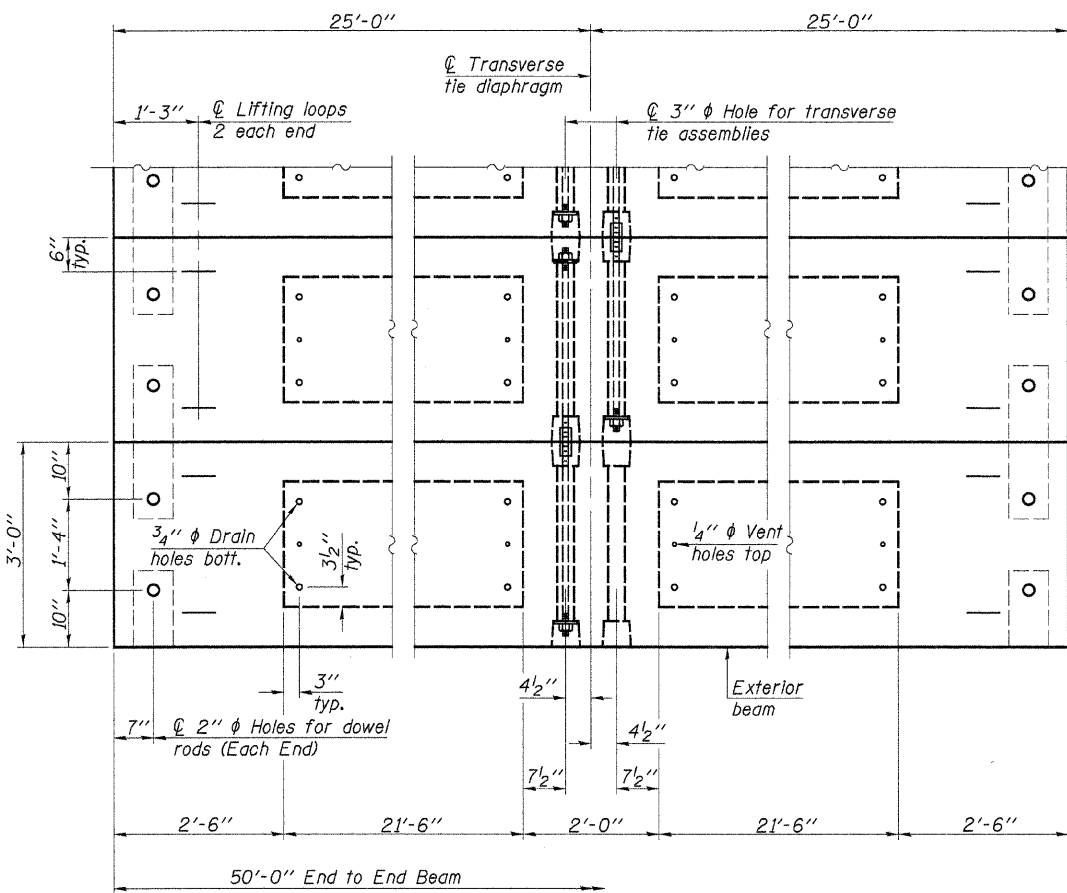
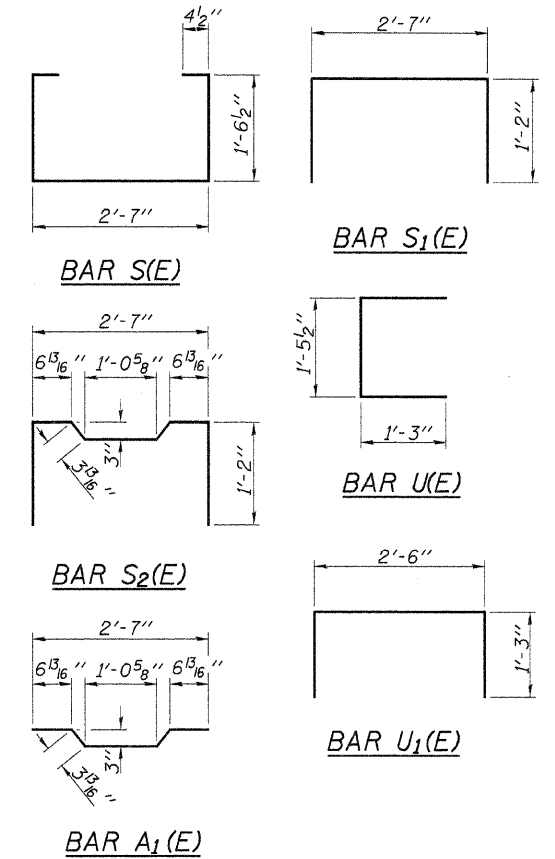
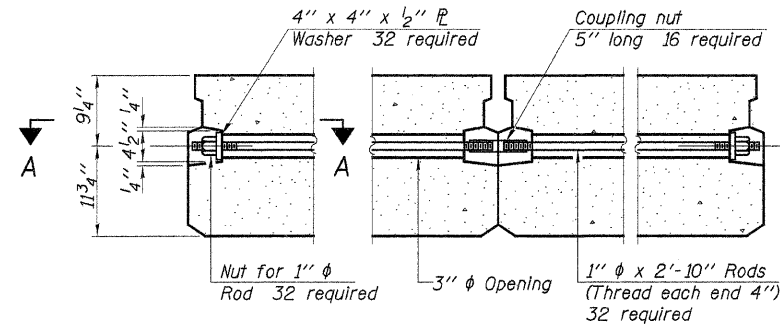
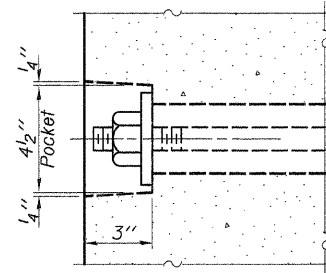
FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	6
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



Note: All bearing pads shall be 1" thick.

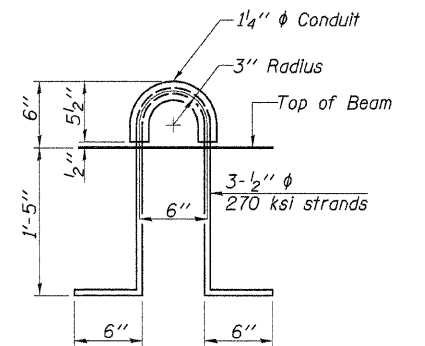
FIXED



Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.
- The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Reinforcement bars shall conform to ASTM A 706, Grade 60.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. (96 Required)
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
- Compressive strength of prestressed concrete at release, f'cl, shall be 5000 psi.
- Rail post inserts, specified elsewhere, shall be cast into the exterior face of the outside beams. See Special Provisions for review and distribution of shop drawings.



BILL OF MATERIAL - SPANS 1 & 3

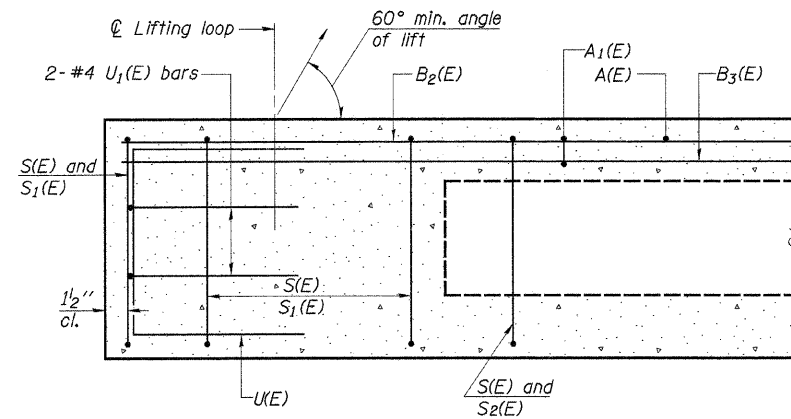
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	2,700
Estimated Total Weight (One Beam) = 30,500 Pounds		

**21" X 36" PPC DECK BEAM DETAILS
SPANS 1 & 3
S.N. 021-4307**

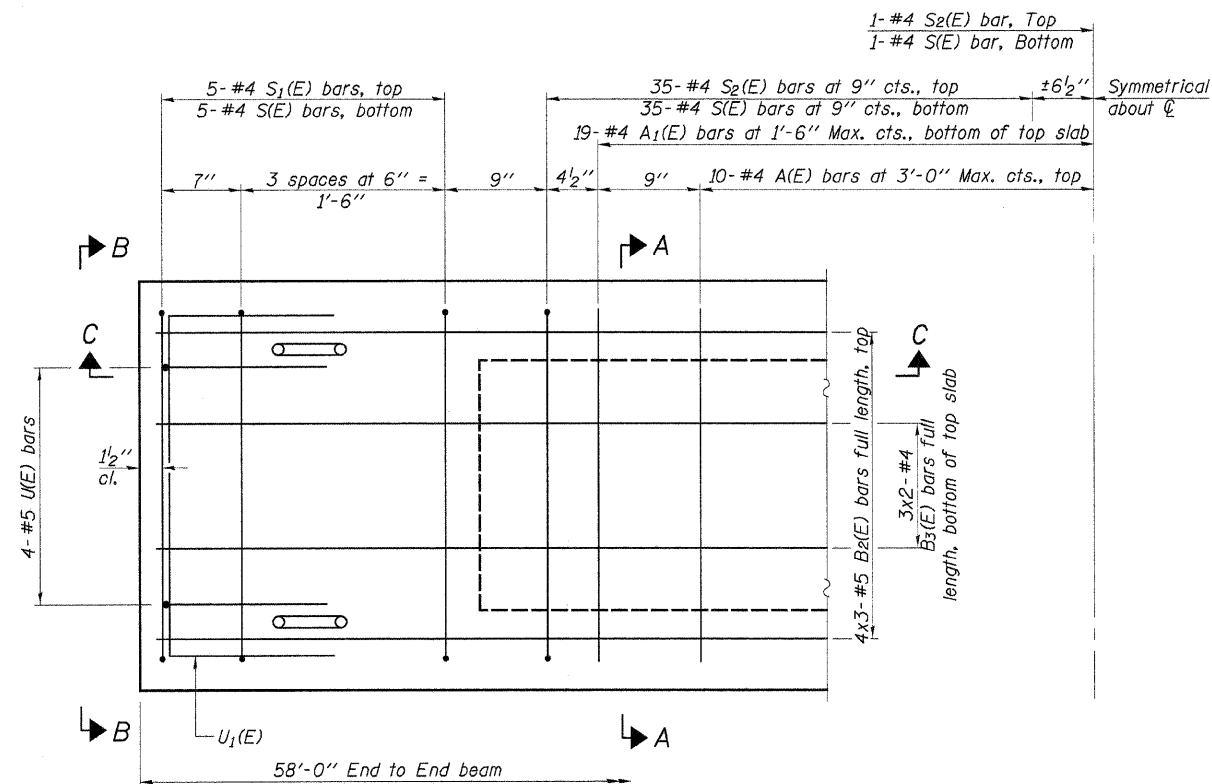
DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

PDB-2136-0D 03-12-10

FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL 4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-9600 www.fehr-graham.com	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	7
			CONTRACT NO. 91433		
			GARRETT ROAD DIST. ILLINOIS		



SECTION C-C



PLAN VIEW

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus, 4x3-#5 bars etc., indicates 4 lines of bars with 3 lengths per line.

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

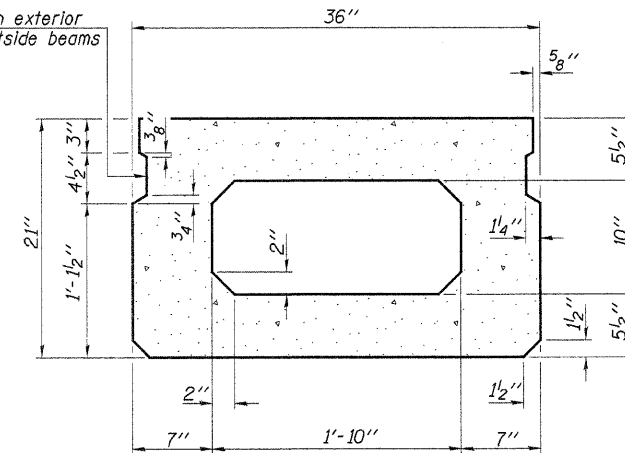
PDB-2136-0

03-12-10

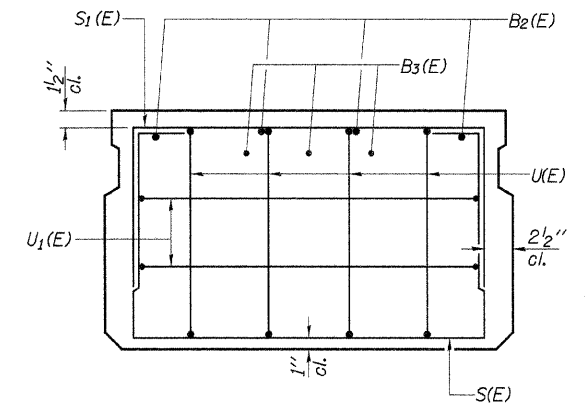
FILE: 09-455.SUPER.DGN

DATE: 11/08/10

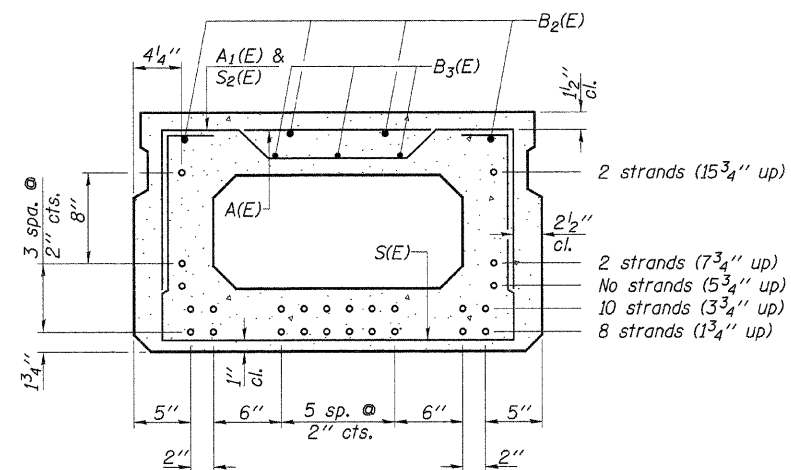
Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)



VIEW B-B



Use 22-1/2" φ strands at the locations shown.

SECTION A-A

(Showing reinforcement and permissible strand locations)

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

MIN. BAR LAPS

#4	2'-0"
#5	2'-6"

BAR LIST

ONE BEAM ONLY - SPAN 2

(For information only)

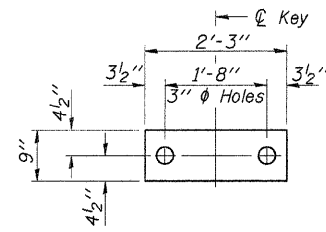
Bar	No.	Size	Length	Shape
A(E)	19	#4	2'-7"	—
A1(E)	37	#4	2'-10"	—
B2(E)	12	#5	20'-11"	—
B3(E)	6	#4	30'-0"	—
S(E)	81	#4	6'-5"	□
S1(E)	10	#4	4'-11"	□
S2(E)	71	#4	5'-2"	□
UK(E)	8	#5	4'-0"	□
U1(E)	4	#4	5'-0"	□

Note: See sheet 9 for additional details and Bill of Material. Reinforcement bars designated (E) shall be epoxy coated.

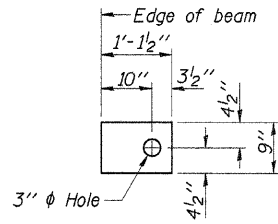
21" X 36" PPC DECK BEAM - SPAN 2

S.N. 021-4307

<p>FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL</p>	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	8
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com			CONTRACT NO. 91433		
GARRETT ROAD DIST. ILLINOIS					



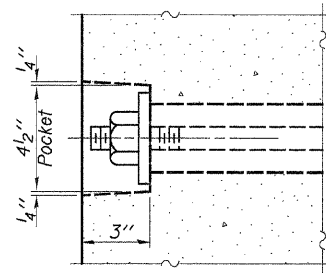
FABRIC BEARING PAD
(Interior)
(12 Required)



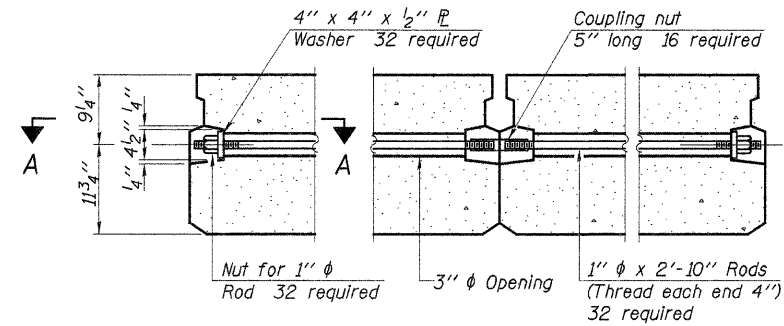
FABRIC BEARING PAD
(Exterior)
(12 Required)

FIXED

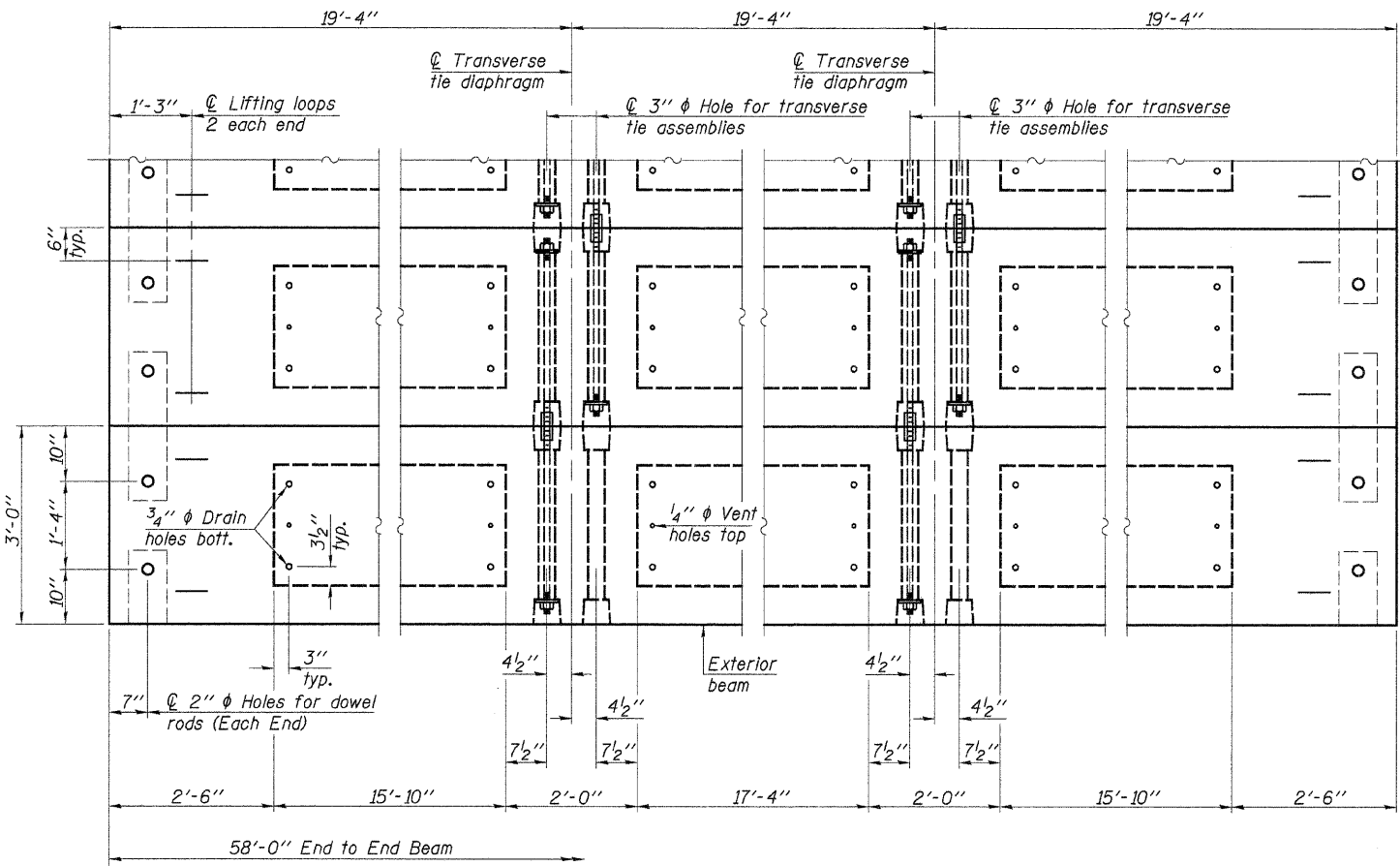
Note: All bearing pads shall be 1" thick.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

Note: Connect beams in pairs with the transverse tie configuration shown.

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 1/2" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. (48 Required)

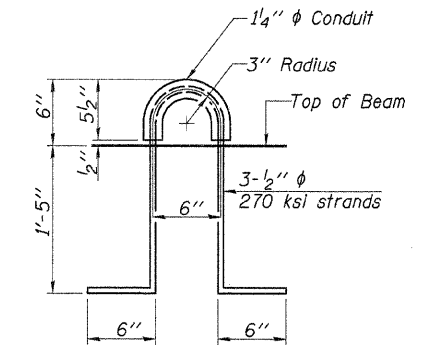
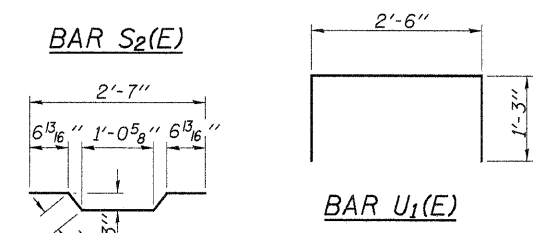
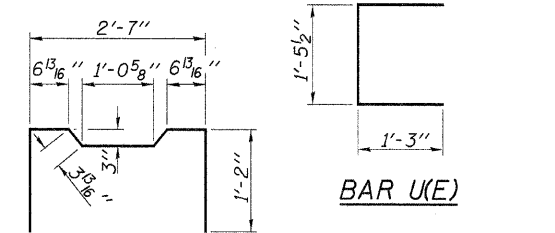
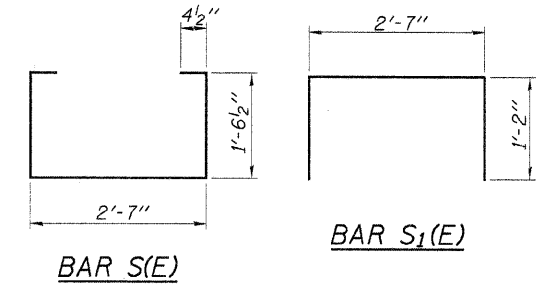
A minimum 2 1/2" lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

Rail post inserts, specified elsewhere, shall be cast into the exterior face of the outside beams. See Special Provisions for review and distribution of shop drawings.



LIFTING LOOP DETAIL

BILL OF MATERIAL - SPAN 2

Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,566
Estimated Total Weight (One Beam) = 35,600 Pounds		

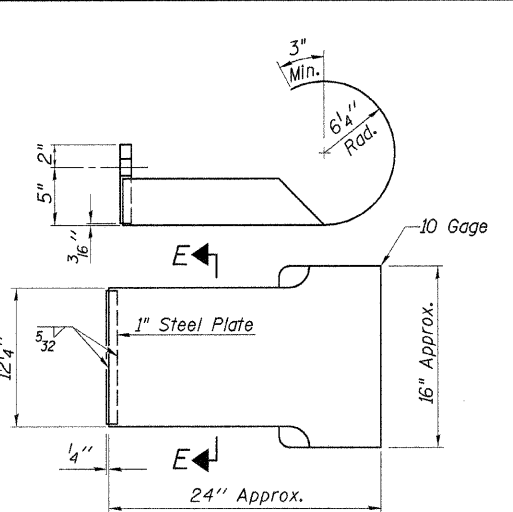
21" X 36" PPC DECK BEAM DETAILS
SPAN 2
S.N. 021-4307

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

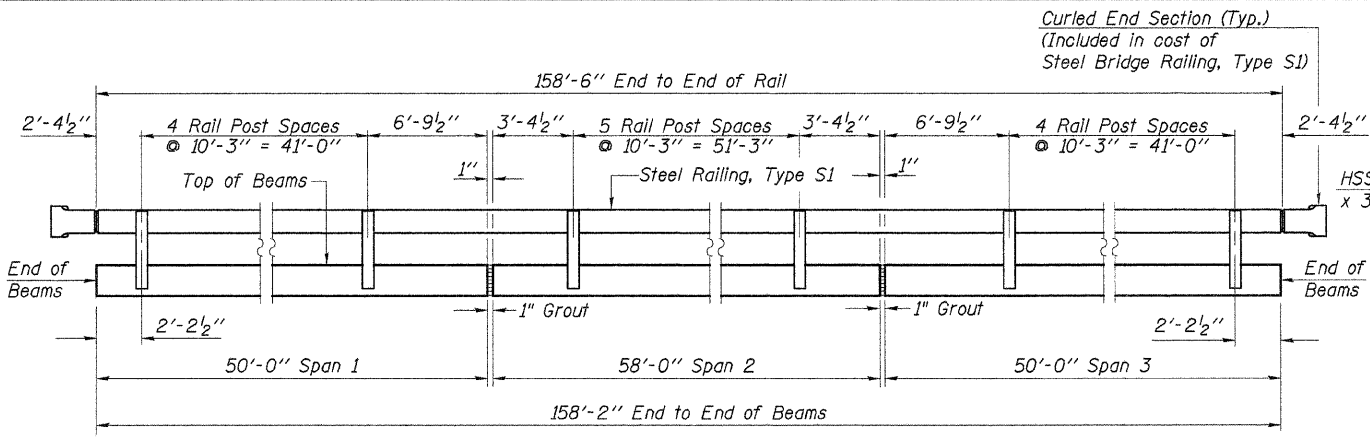
PDB-2136-0D 03-12-10

FILE: 09-455_SUPER.DGN DATE: 11/08/10

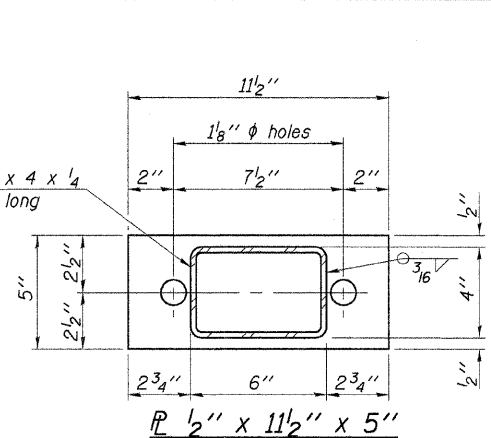
<p>FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL</p>	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	9
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com			GARRETT ROAD DIST. ILLINOIS		
CONTRACT NO. 91433					



CURLED END SECTION DETAILS
(4 Required)

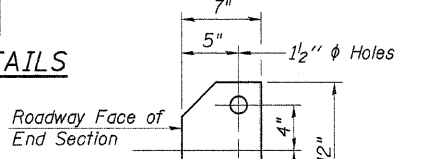


W. ABUT. PIER 1 PIER 2 E. ABUT.
ELEVATION



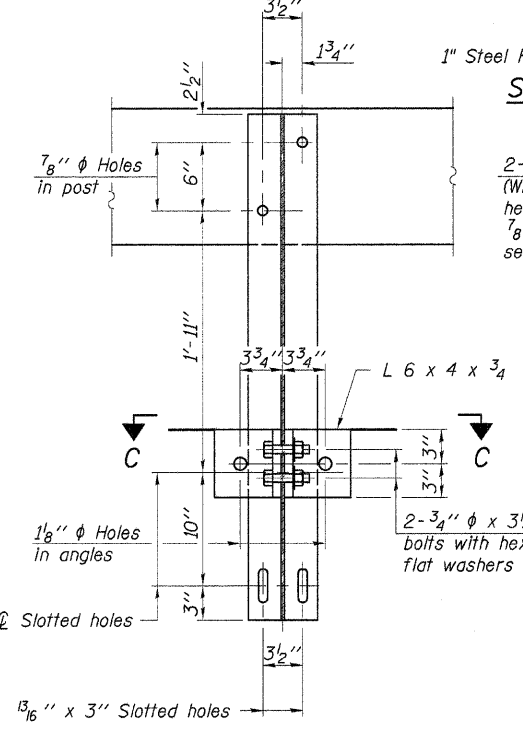
PL 1/2" x 11 1/2" x 5"

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



SECTION E-E

** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

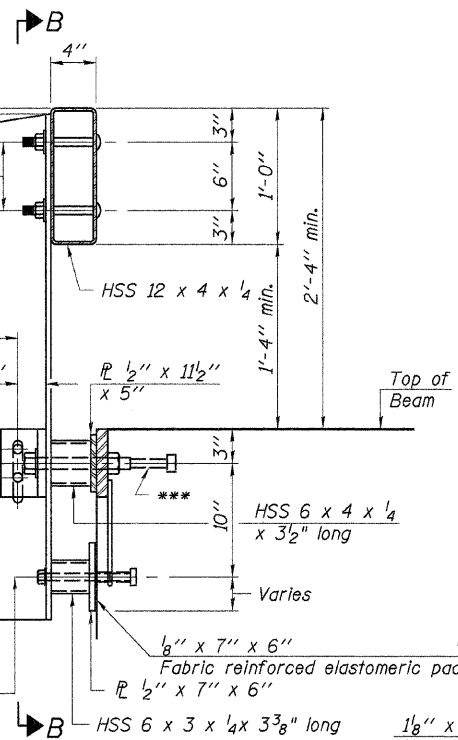


SECTION B-B

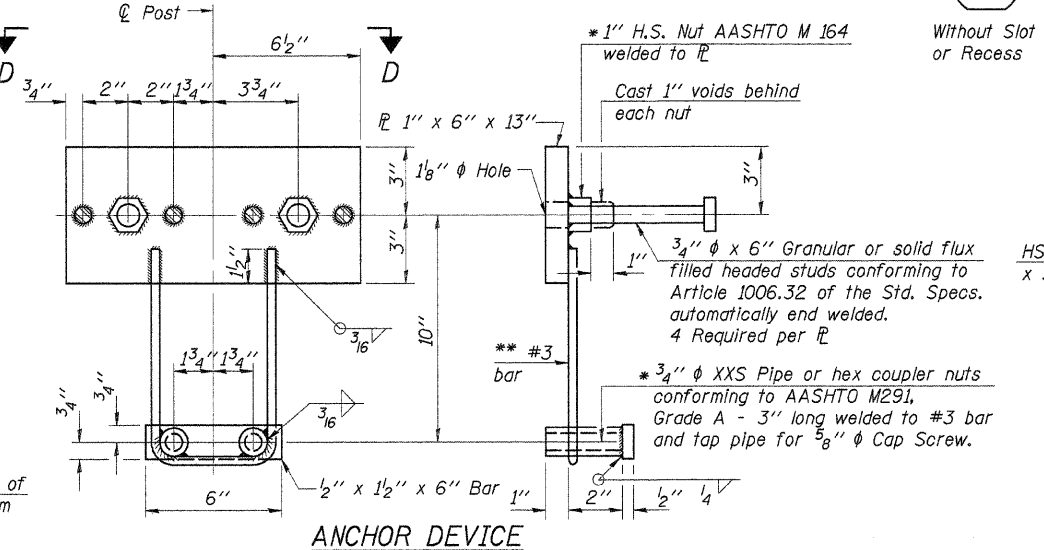
2-3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.

2-1" ϕ x 7 3/4" AASHTO M-164 anchor bolts with flat washer and lock washer

2-5/8" ϕ x 5 3/4" cap screws with flat washer



SECTION AT RAILING POST



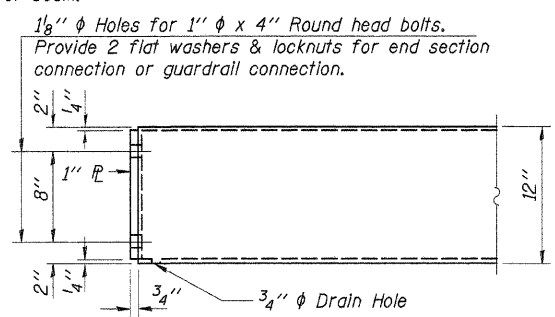
ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.



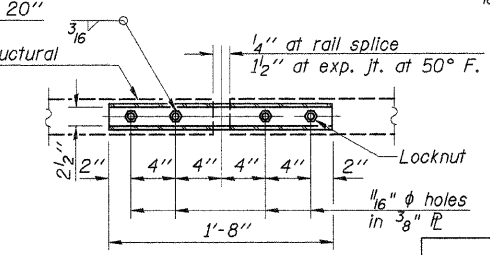
VIEW A-A

ROUND HEAD BOLT

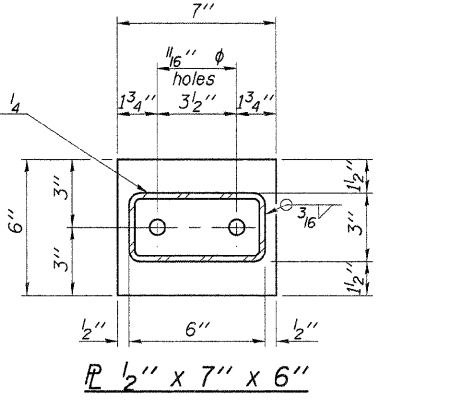


END OF RAIL DETAILS

RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE TYPICAL



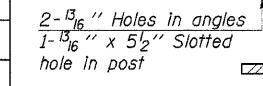
VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	317

STEEL RAILING, TYPE S-1
S.N. 021-4307

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.



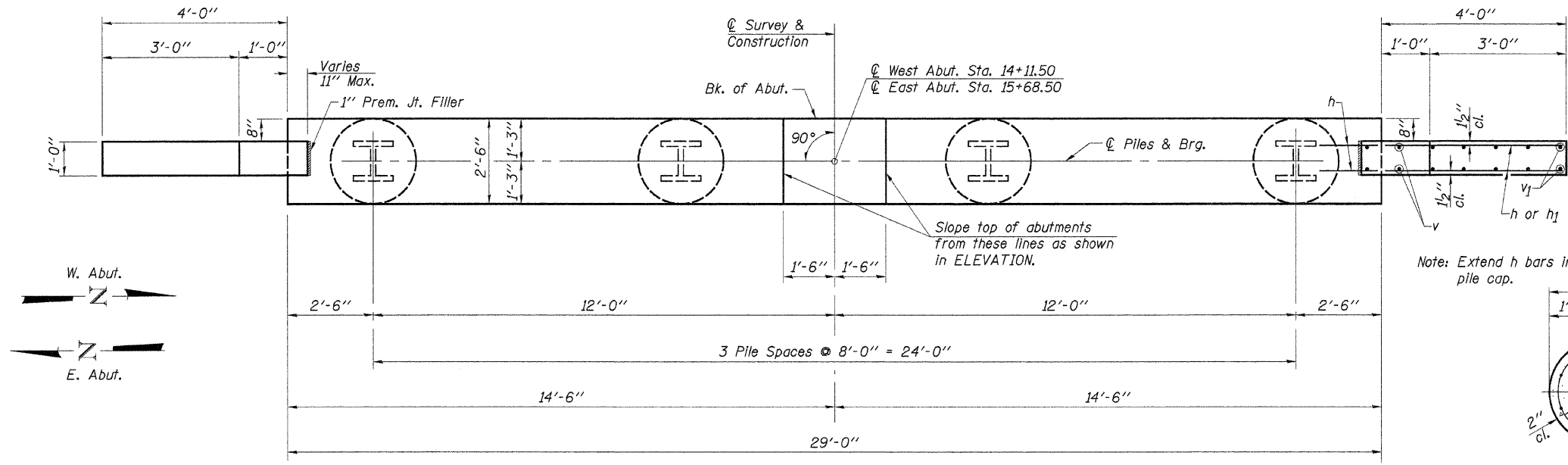
SECTION C-C

SECTIONS AT RAIL SPLICE

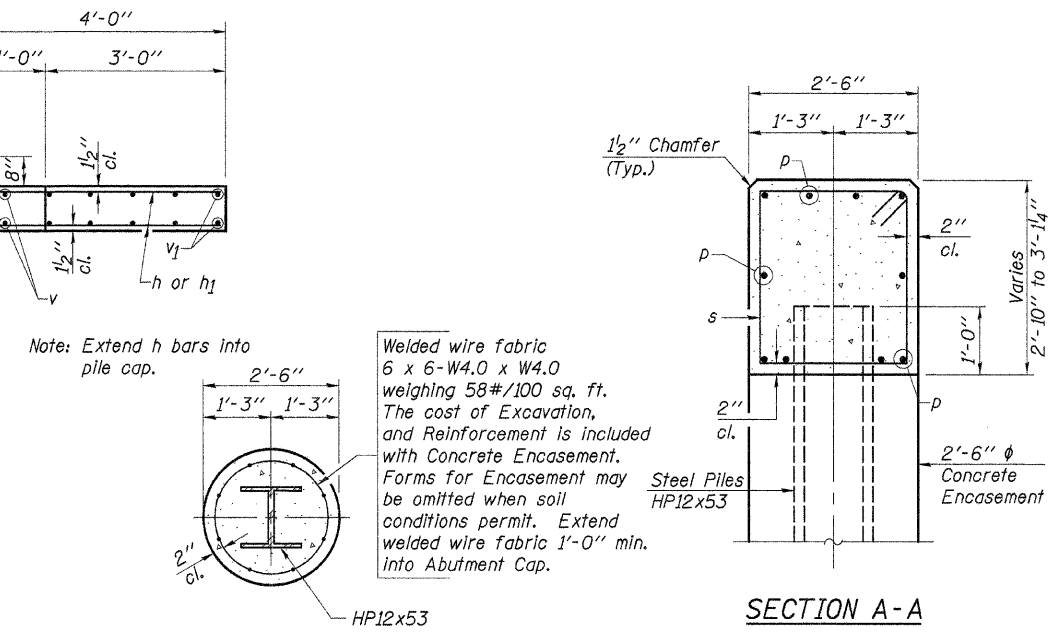
R-S-1 (3) 03-12-10 (10'-9" Maximum Post Spacing)

FEHR-GRAHAM & ASSOCIATES, LLC
ENGINEERING AND SCIENCE CONSULTANTS
PREPONT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com

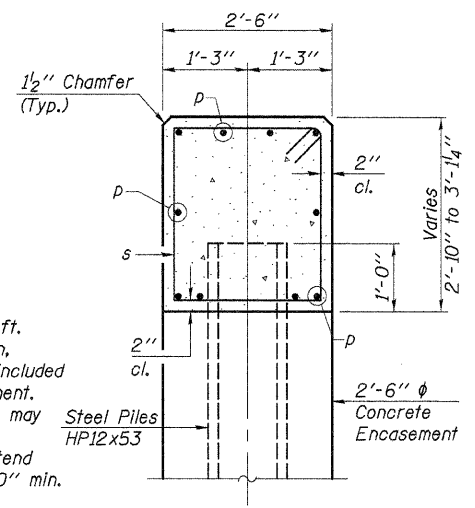
TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	10
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



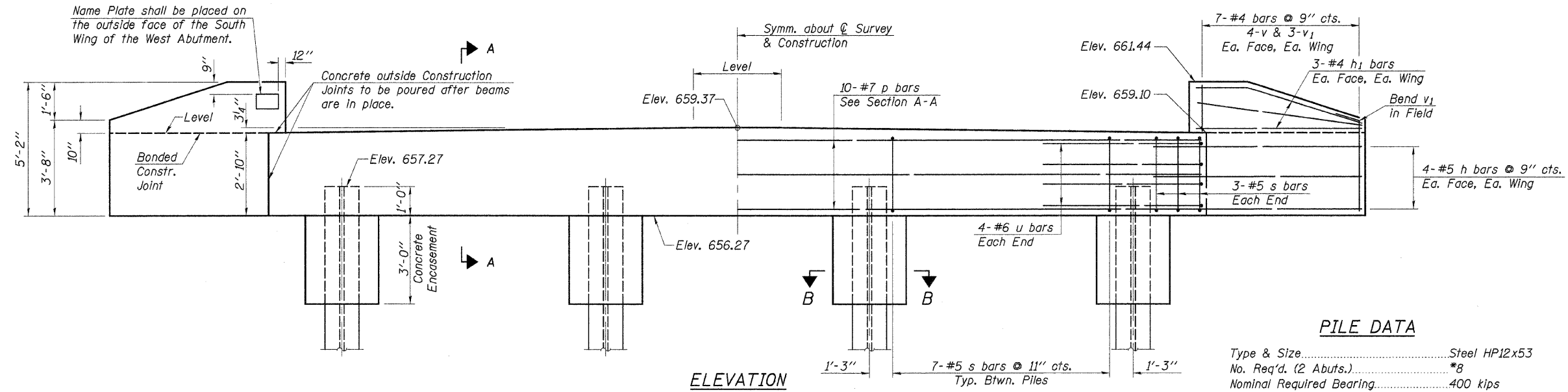
PLAN



SECTION B-B
PILE ENCASEMENT DETAIL



SECTION A-A



ELEVATION

2 ABUTMENTS
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
h	32	#5	6'-9"	—	
h ₁	24	#4	4'-8"	—	
p	20	#7	28'-8"	—	
s	54	#5	10'-3"	□	
u	16	#6	12'-1"	▬	
v	32	#4	4'-10"	—	
v ₁	24	#4	4'-3"	—	
Concrete Structures				Cu. Yd.	18.7
Reinforcement Bars				Pound	2,510
Name Plates				Each	1
Test Pile Steel HP12x53				Each	1
Steel Piles HP12x53				Foot	259
Driving Piles				Foot	259
Concrete Encasement				Cu. Yd.	4.4

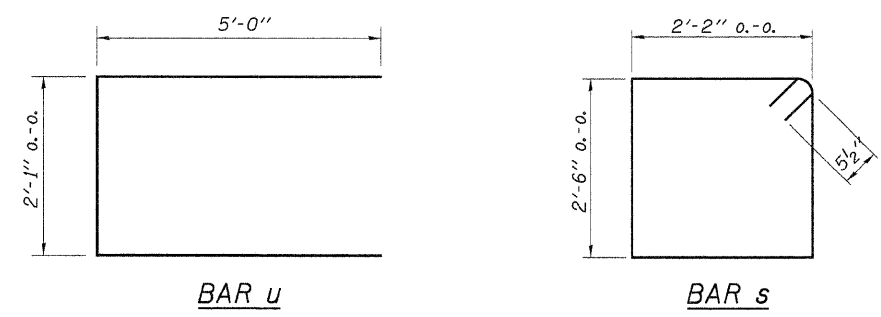
See Sheet 13 for Pile Details.

PILE DATA

Type & Size	Steel HP12x53
No. Req'd. (2 Abutments)	*8
Nominal Required Bearing	400 kips
Factored Resistance Available	220 kips
Estimated Length	37 ft./pile

*Includes 1 Test Pile to be driven in a permanent location at the west abutment.
The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated above.

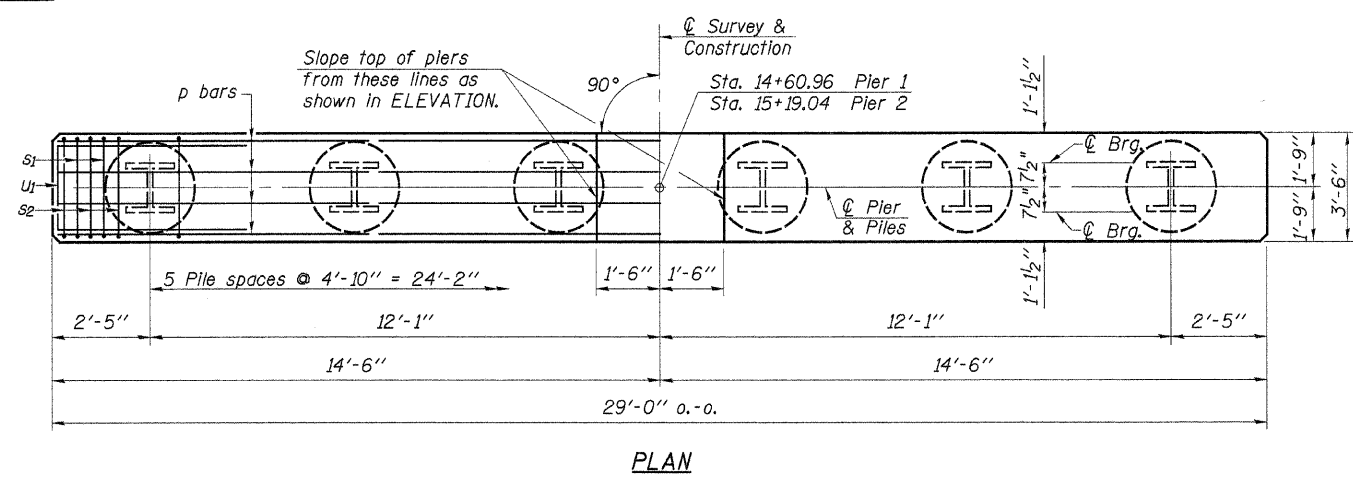
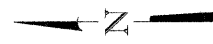
Steel Piles shall be according to AASHTO M270 Grade 50.



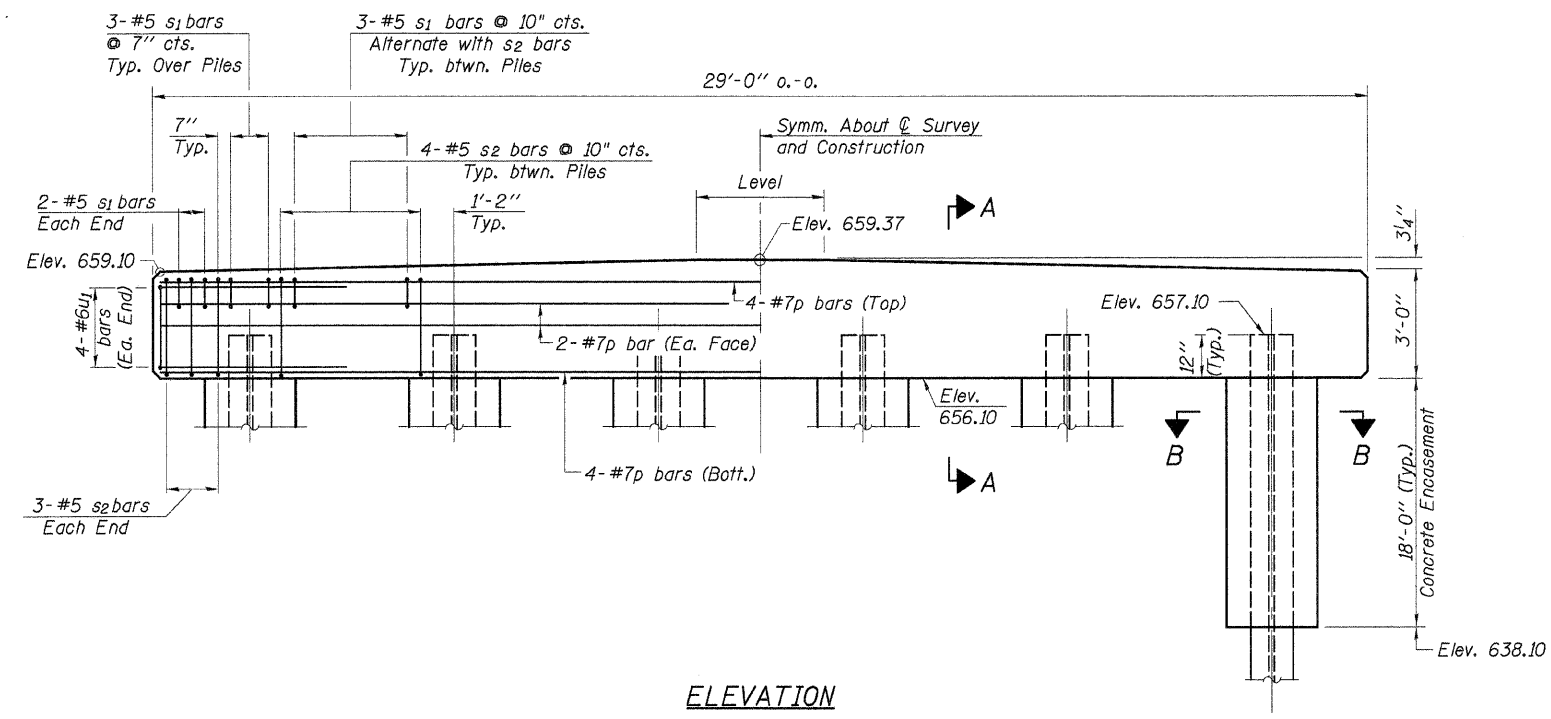
DESIGNED	A.L.S.
CHECKED	A.R.K.
DRAWN	S.A.P.
CHECKED	A.L.S. & A.R.K.

ABUTMENTS
S.N. 021-4307

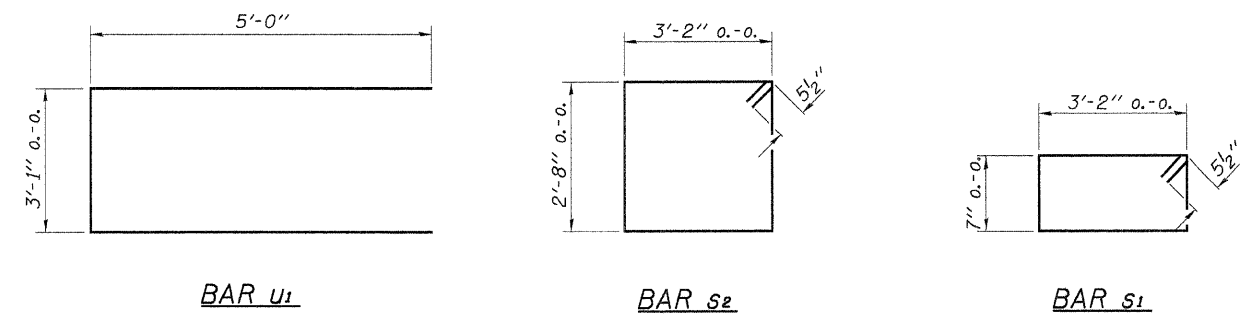
FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	11
CONTRACT NO. 91433					
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com		GARRETT ROAD DIST. ILLINOIS			



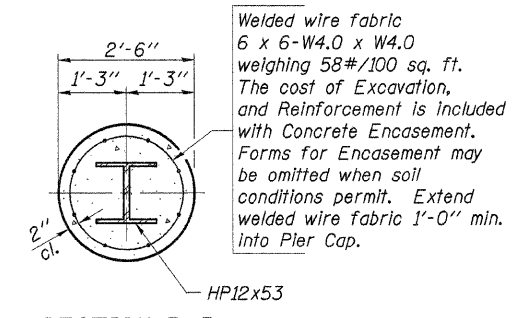
PLAN



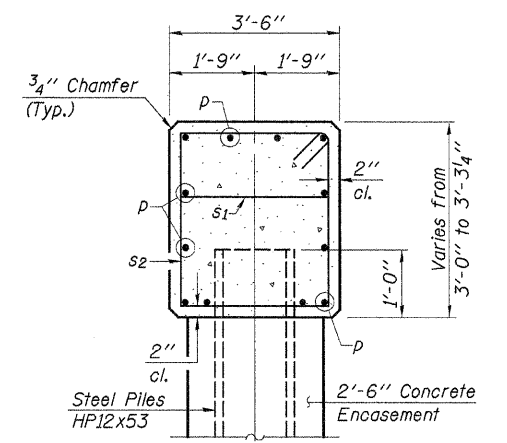
ELEVATION



DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.



SECTION B-B
PILE ENCASEMENT DETAIL



SECTION A-A

PILE DATA

Type & Size.....Steel HP12x53
 No. Req'd.....*12
 Nominal Required Bearing.....400 kips
 Factored Resistance Available.....184 kips
 Estimated Length.....49 ft./pile - Pier 1
 39 ft./pile - Pier 2

*Includes 1 Test Pile to be driven in a permanent location at each pier.
 The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated above.

Steel Piles shall be according to AASHTO M270 Grade 50.

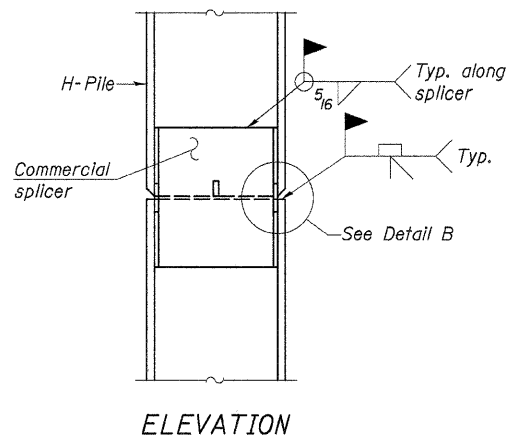
BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
P	24	#7	28'-8"	—
s1	74	#5	8'-5"	□
s2	52	#5	12'-7"	□
u1	16	#6	13'-1"	—
Concrete Structures			Cu. Yd.	23.7
Reinforcement Bars			Pound	3,050
Steel Piles HP12x53			Foot	440
Driving Piles			Foot	440
Test Pile Steel HP12x53			Each	2
Concrete Encasement			Cu. Yd.	39.3

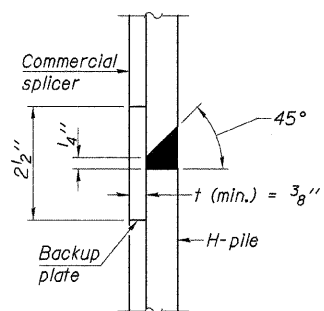
See Sheet 13 for Pile Details.

PIERS
S.N. 021-4307

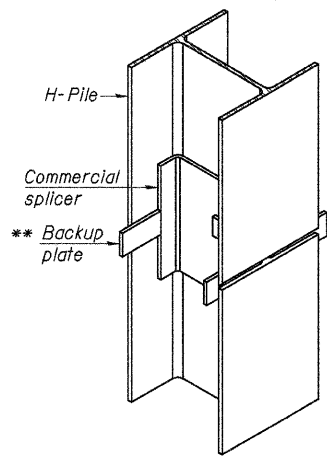
FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS <small>FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL</small>	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	12
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-9800 www.fehr-graham.com			CONTRACT NO. 91433		
GARRETT ROAD DIST. ILLINOIS					



ELEVATION

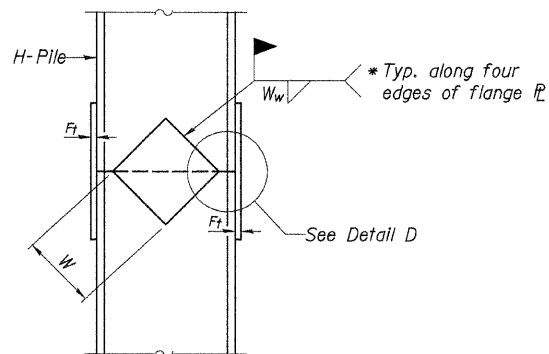


DETAIL "B"

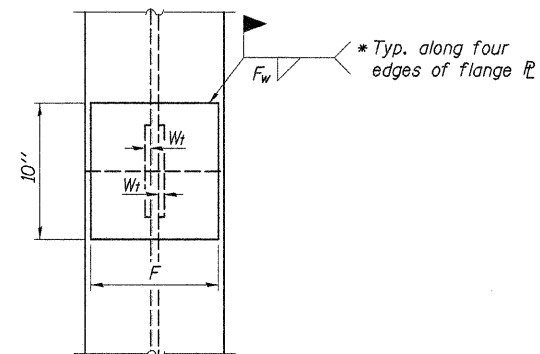


ISOMETRIC VIEW

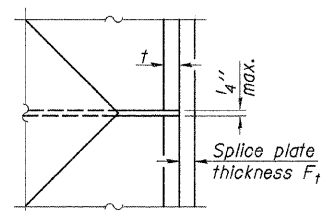
WELDED COMMERCIAL SPLICE



ELEVATION



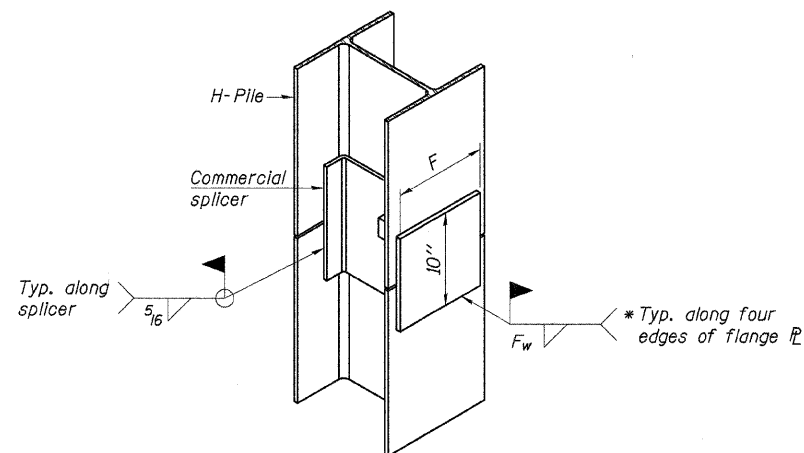
END VIEW



DETAIL D

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

WELDED PLATE FIELD SPLICE



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

- * Interrupt welds 1/4" from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.

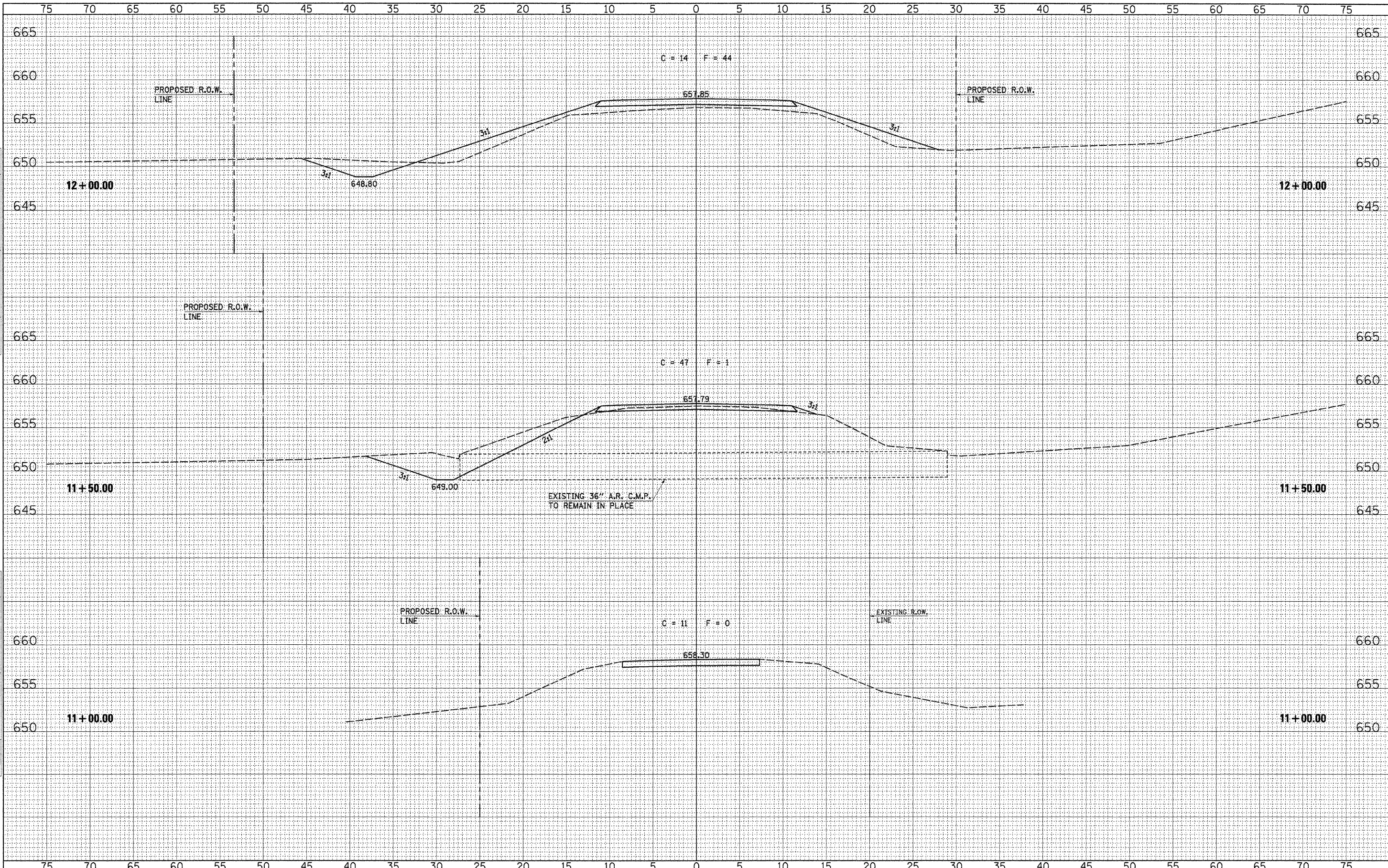
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

STEEL PILE SPLICING DETAILS
S.N. 021-4307

DESIGNED -	A.L.S.
CHECKED -	A.R.K.
DRAWN -	S.A.P.
CHECKED -	A.L.S. & A.R.K.

F-HP 11-1-09

FEHR-GRAHAM & ASSOCIATES, LLC ENGINEERING AND SCIENCE CONSULTANTS FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL	TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	56	09-05123-01-BR	DOUGLAS	19	13
4440 ASH GROVE SPRINGFIELD, IL 62711 (217)-793-8600 www.fehr-graham.com			GARRETT ROAD DIST. ILLINOIS		
CONTRACT NO. 91433					



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

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

FILE NAME = 09-455.XS-SHEETS.DGN
 PLOTTED BY = S.A.P.
 CHECKED BY = G.J.C.
 PLOT DATE = 12/28/09

DESIGNED - G.J.C.
 DRAWN - S.A.P.
 CHECKED - A.L.S.
 DATE - 11/22/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

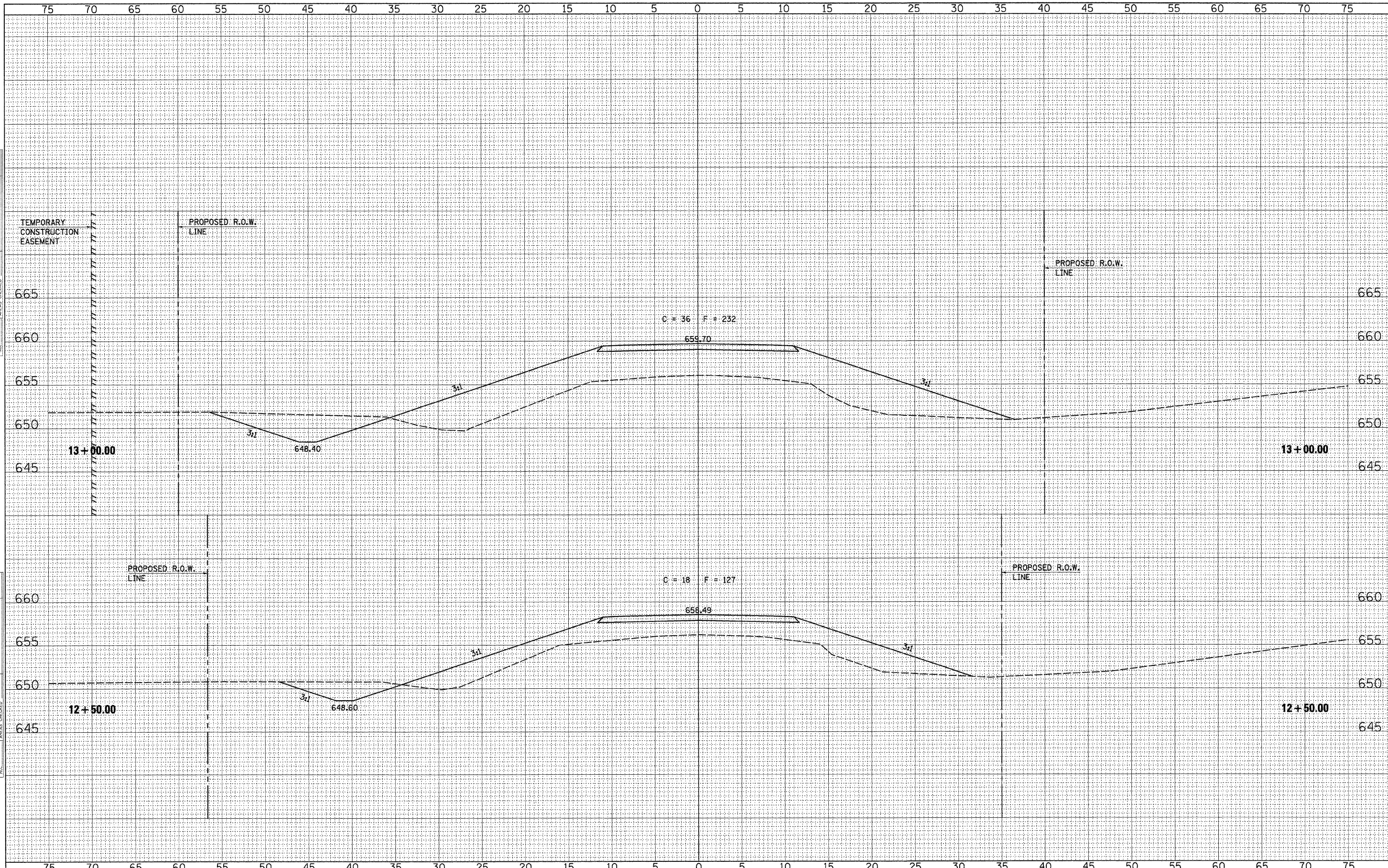
4440 ASH GROVE
 SPRINGFIELD, IL. 62711
 (217) 793-8600
 www.fehr-graham.com

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

ROADWAY CROSS SECTIONS - T.R. 56

STA. 11+00.00 TO STA. 12+00.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	14
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

FILE NAME = 09-455_XS-SHEETS.DGN
 PLOTTED BY = S.A.P.
 CHECKED BY = G.J.C.
 PLOT DATE = 12/28/09

DESIGNED - G.J.C.
 DRAWN - S.A.P.
 CHECKED - A.L.S.
 DATE - 11/22/10

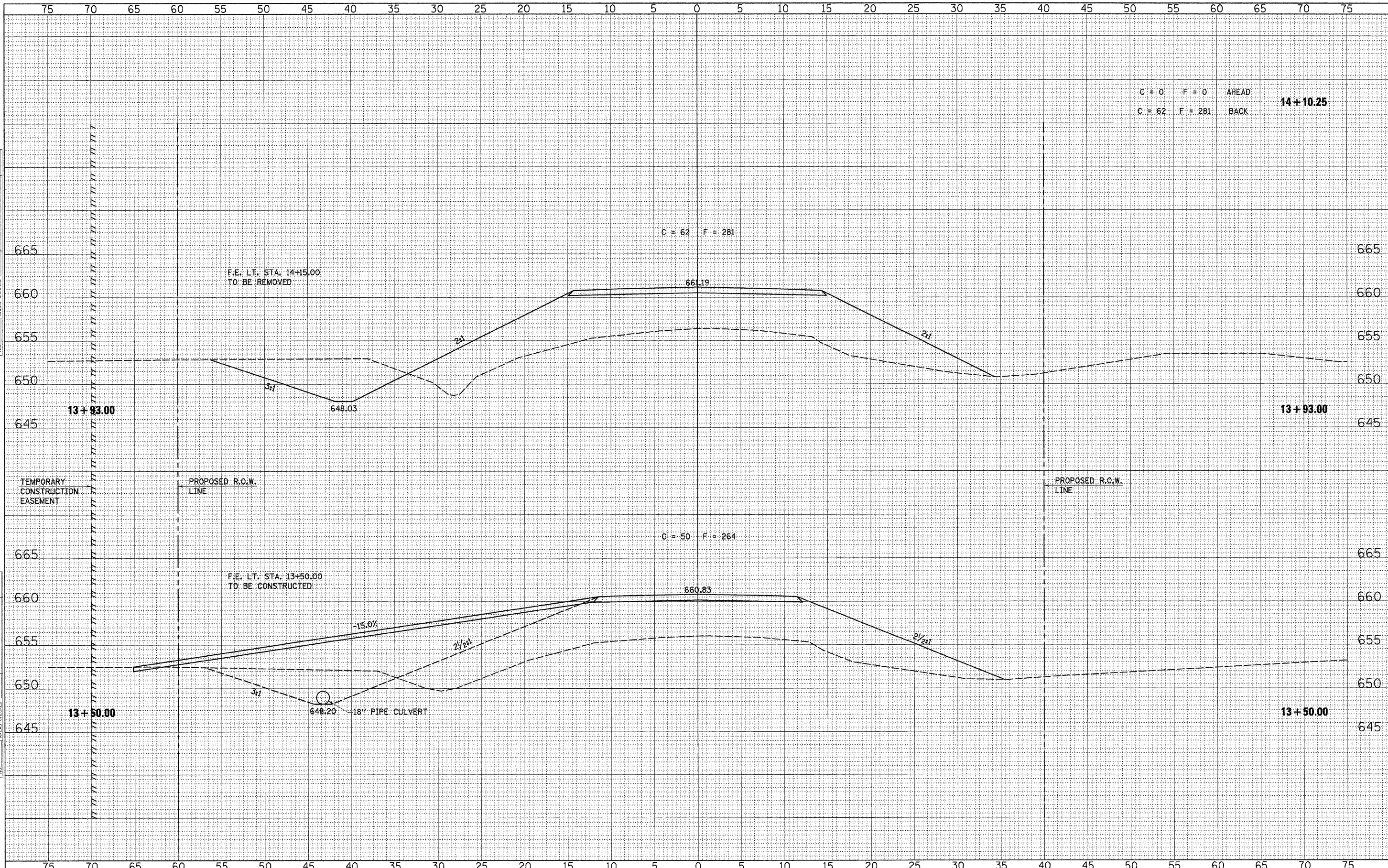
REVISED -
 REVISED -
 REVISED -
 REVISED -

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 ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

ROADWAY CROSS SECTIONS - T.R. 56
 STA. 12+50.00 TO STA. 13+00.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	15
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



DATE	
BY	
FINAL SURVEY	
NOTE BOOK	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
NOTE BOOK	
NO.	

FILE NAME = 09-455_XS-SHEETS.DGN
 PLOTTED BY = S.A.P.
 CHECKED BY = G.J.C.
 PLOT DATE = 12/28/09

DESIGNED - G.J.C.
 DRAWN - S.A.P.
 CHECKED - A.L.S.
 DATE - 11/22/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

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

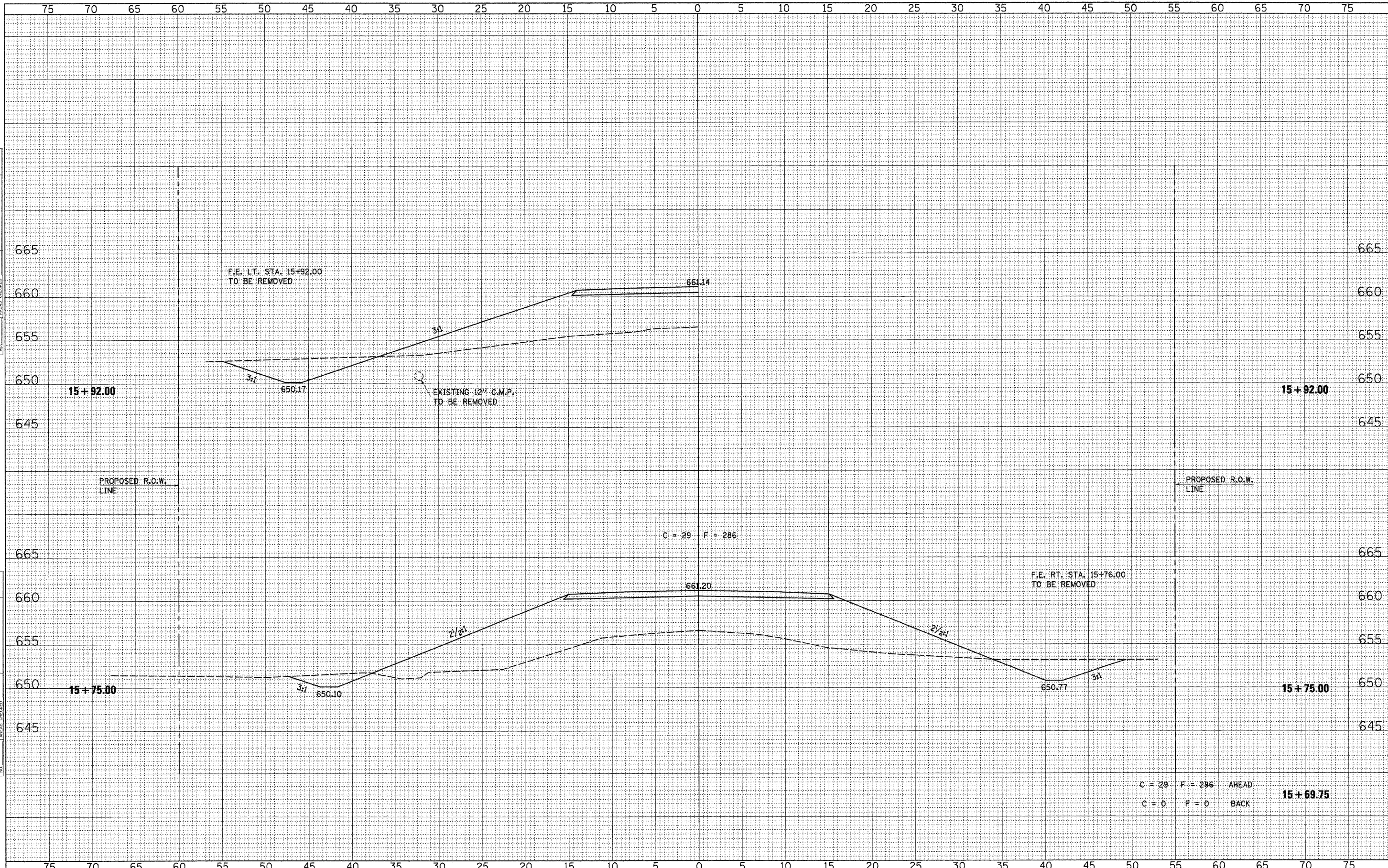


FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 FREEPORT, IL ROCKFORD, IL ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

ROADWAY CROSS SECTIONS - T.R. 56

STA. 13+50.00 TO STA. 14+10.25

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	16
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

FILE NAME	= 09-455.XS-SHEETS.DGN
DESIGNED	- G.J.C.
REVISOR	-
PLOTTED BY	= S.A.P.
DRAWN	- S.A.P.
REVISOR	-
CHECKED BY	= G.J.C.
CHECKED	- A.L.S.
REVISOR	-
PLOT DATE	= 12/28/09
DATE	- 11/22/10
REVISOR	-

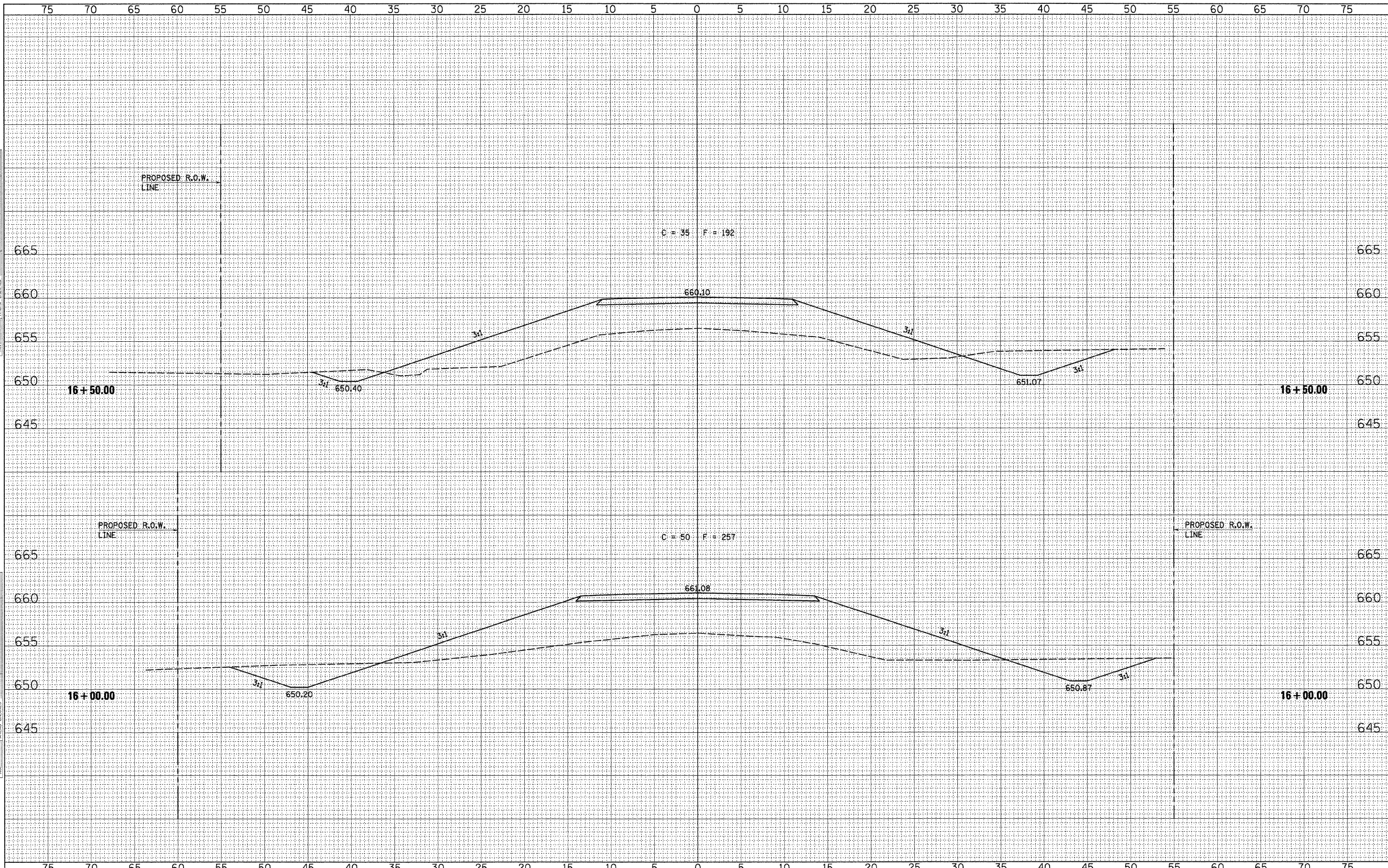
DESIGNED	- G.J.C.
DRAWN	- S.A.P.
CHECKED	- A.L.S.
DATE	- 11/22/10

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 ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

ROADWAY CROSS SECTIONS - T.R. 56
 STA. 15+69.75 TO STA. 15+92.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	17
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



DATE _____
 BY _____
 SURVEYED _____
 FINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 ORIGINAL SURVEY _____
 NOTE BOOK _____
 NO. _____

FILE NAME = 09-455_XS-SHEETS.DGN
 PLOTTED BY = S.A.P.
 CHECKED BY = G.J.C.
 PLOT DATE = 12/28/09

DESIGNED - G.J.C.
 DRAWN - S.A.P.
 CHECKED - A.L.S.
 DATE - 11/22/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

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

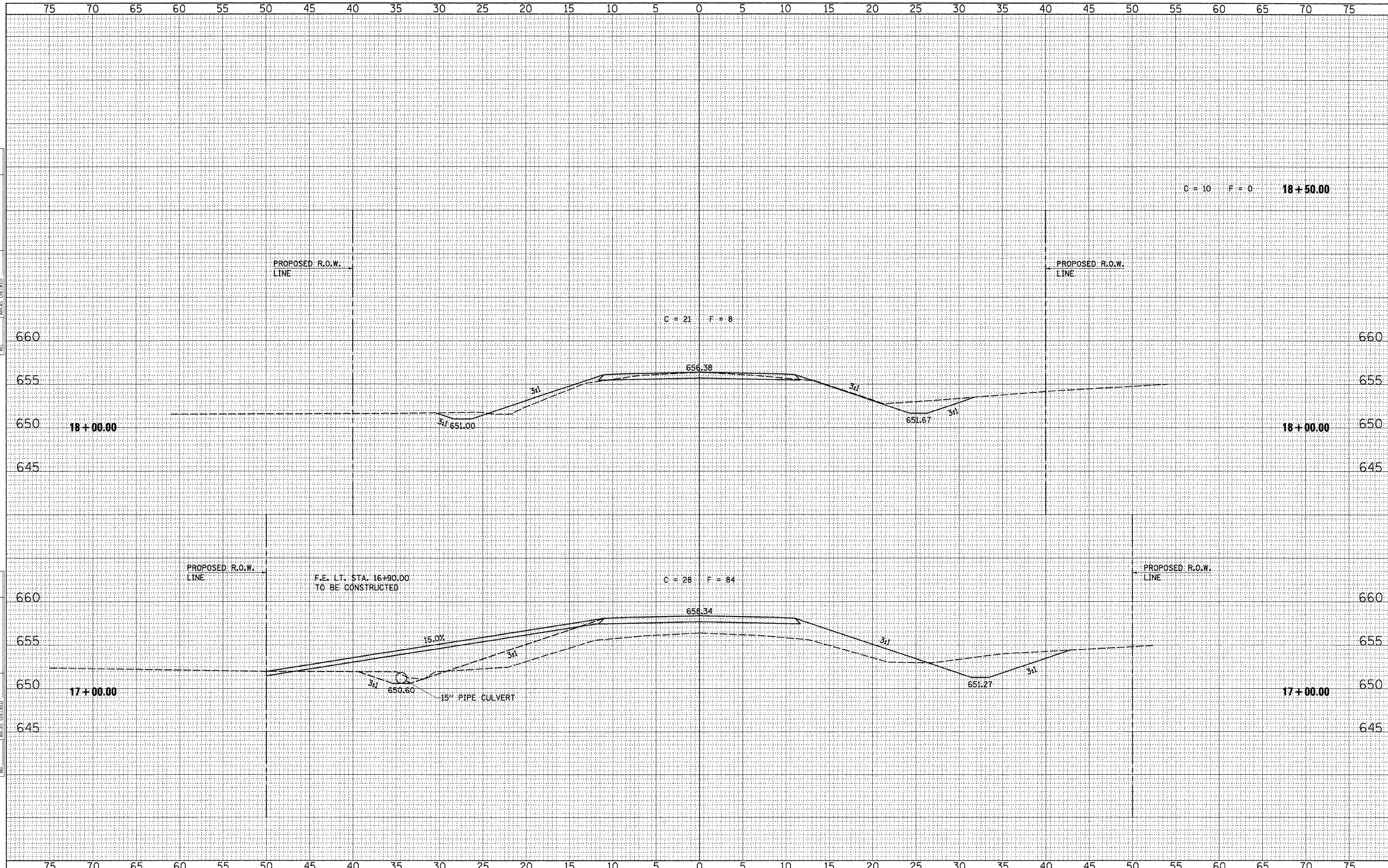


FEHR-GRAHAM & ASSOCIATES, LLC
 ENGINEERING AND SCIENCE CONSULTANTS
 FREEPORT, IL. ROCKFORD, IL. ROCHELLE, IL. MONROE, WI. SPRINGFIELD, IL.

ROADWAY CROSS SECTIONS - T.R. 56

STA. 16+00.00 TO STA. 16+50.00

TWP.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	18
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	



DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

FILE NAME = 09-485.XS-SHEETS.DGN
 PLOTTED BY = S.A.P.
 CHECKED BY = G.J.C.
 PLOT DATE = 12/28/09

DESIGNED - G.J.C.
 DRAWN - S.A.P.
 CHECKED - A.L.S.
 DATE - 11/22/10

REVISED -
 REVISED -
 REVISED -
 REVISED -

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 ROCHELLE, IL MONROE, WI SPRINGFIELD, IL

ROADWAY CROSS SECTIONS - T.R. 56
 STA. 17+00.00 TO STA. 18+50.00

TWP. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
56	09-05123-01-BR	DOUGLAS	19	19
GARRETT ROAD DIST. ILLINOIS			CONTRACT NO. 91433	