

DL:COVR-5789.DGN APR. 12, 2011

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/ 07-00088-00-BR	BOND/ CLINTON	19	1
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FEDERAL AID PROJECT				

HIGHWAY BRIDGE PROGRAM

DETAIL PLANS FOR

F.A.S. 782 (C.H. 10/KEYESPORT RD.)

OVER TRIBUTARY TO CARLYLE LAKE

SECTION 07-00084-00-BR BOND COUNTY

SECTION 07-00088-00-BR CLINTON COUNTY

PROJECT NO. BRS-0782(120)

JOB NO. C-98-345-10

INDEX OF SHEETS

- COVER SHEET
- SUMMARY OF QUANTITIES, GENERAL NOTES AND SCHEDULES
- TYPICAL ROADWAY CROSS SECTIONS AND SCHEDULES
- PLAN & PROFILE EXISTING & PROPOSED ROADWAY
- DETOUR MAP
- EROSION CONTROL PLAN
- GENERAL PLAN & ELEVATION
- SUPERSTRUCTURE
- 27" x 48" P.P.C. DECK BEAM
- 27" x 48" P.P.C. DECK BEAM DETAILS
- PILE BENT ABUTMENT
- STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE
- HP PILE DETAILS
- SOIL BORING LOGS
- 19. CROSS SECTIONS EXISTING & PROPOSED ROADWAY

HIGHWAY STANDARDS

- 280001-05 TEMPORARY EROSION CONTROL SYSTEMS
- 285001-02 FABRIC FORMED CONCRETE REVETMENT MATS
- 515001-03 NAME PLATE FOR BRIDGES
- 542301-03 PRECAST REINFORCED CONCRETE FLARED END SECTION
- 630001-09 STEEL PLATE BEAM GUARDRAIL
- 630301-05 SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
- 631032-06 TRAFFIC BARRIER TERMINAL, TYPE 6A
- 635006-03 REFLECTOR AND TERMINAL MARKER PLACEMENT
- 635011-02 REFLECTOR MARKER AND MOUNTING DETAILS
- 701901-01 TRAFFIC CONTROL DEVICES
- 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)

DESIGN CLASSIFICATION

MAJOR COLLECTOR (NON-URBAN) A.D.T. = 1,000-3,000
 CURRENT A.D.T. = 1,255 (2010)
 DESIGN A.D.T. = 1,255 (2010)
 DESIGN SPEED = 50 M.P.H.

UTILITIES:

CALL J.U.L.I.E. BEFORE YOU DIG
 1-800-892-0123

TELEPHONE:

FRONTIER COMMUNICATIONS
 ALTAMONT, IL. 62411
 (618) 483-6205

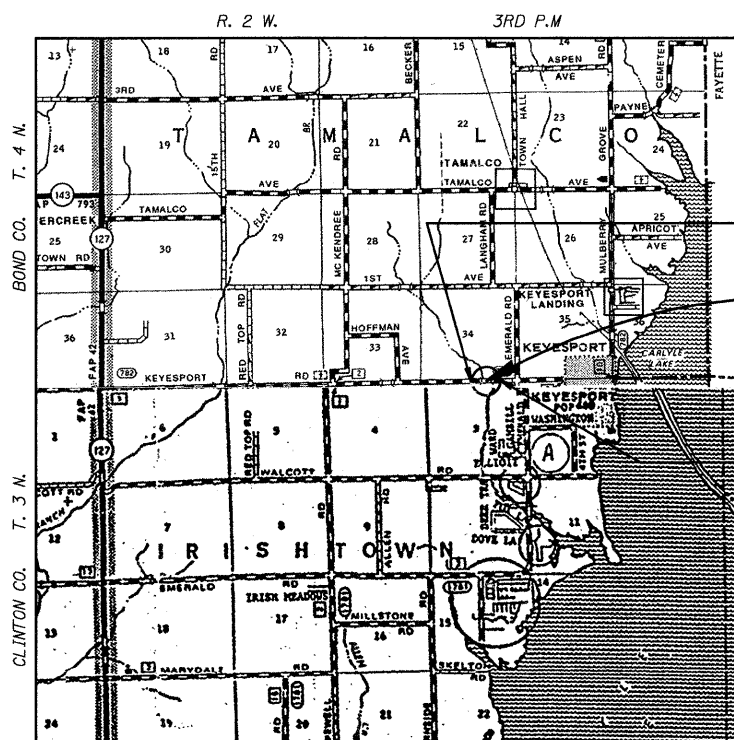
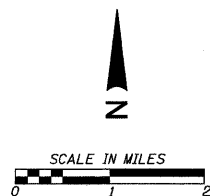
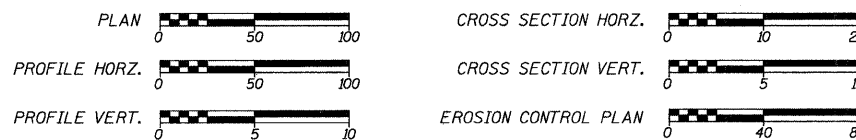
ELECTRIC:

SOUTHWESTERN ELECTRIC COOP
 HIGHLAND, IL. 62249
 (618) 664-1025

WATER:

CARLYLE NORTH WATER CO.
 CARLYLE, IL. 62231
 (618) 594-2508

SCALES:



SECTION 07-00084-00-BR/07-00088-00-BR
 BEGINS STA. 93+50

PROJECT LOCATION

PROPOSED STRUCTURE NO. 003-3052 STATION 96+96
 SIMPLE SPAN PRECAST PRESTRESSED CONCRETE
 DECK BEAMS (27" DEPTH) ON SPILL THRU PILE BENT
 ABUTMENTS MEASURING 68'-0" BACK TO BACK OF THE
 ABUTMENTS WITH A 28'-0" CLEAR ROADWAY WIDTH.

SECTION 07-00084-00-BR/07-00088-00-BR
 ENDS STA. 102+00



LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<u>April 12</u> 20 <u>11</u> <i>Douglas F. DeLong</i> BOND COUNTY ENGINEER
APPROVED	<u>April 12</u> 20 <u>11</u> <i>David R. Bohrens</i> CLINTON COUNTY ENGINEER
PASSED	<u>April 13</u> 20 <u>11</u> <i>[Signature]</i> DISTRICT 8 ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID BASED UPON LIMITED REVIEW	<u>April 13</u> 20 <u>11</u> <i>[Signature]</i> MARY C. LAMIE, P.E. DEPUTY DIRECTOR OF HIGHWAYS REGION FIVE ENGINEER

LOCATION MAP

NET LENGTH OF PROJECT = 850 FEET OR 0.161 MILES.

PRINTED BY THE AUTHORITY
 OF THE STATE OF ILLINOIS



[Signature] DATE 4/12/11
 LARRY D. GOWLER, JR.
 REGISTERED PROFESSIONAL
 ENGINEER IN ILLINOIS, NO. 52900



EXPIRES: NOVEMBER 30, 2011

PLAN: NO. 5789

GUARDRAIL SCHEDULE

STEEL PLATE BEAM GUARD RAIL, TYPE A, 6 FOOT POSTS

STA. 95+30.75 TO 96+18.25, RT.	=	87.5 FT.
STA. 95+93.25 TO 96+18.25, LT.	=	25.0 FT.
STA. 97+73.75 TO 99+11.25, LT.	=	137.5 FT.
STA. 97+73.75 TO 97+98.75, RT.	=	25.0 FT.

TOTAL = 275 FT.

GUARDRAIL MARKERS

LOCATION	EACH	
	A	B
S.M. 003-3052		
95+35 RT.	1	-
96+05 RT.	1	-
96+75 RT.	-	1
97+35 RT.	1	-
97+95 RT.	1	-
96+00 LT.	1	-
96+75 LT.	-	1
97+50 LT.	1	-
98+25 LT.	1	-
99+00 LT.	1	-
TOTAL	8	2

NOTE:
PLACE TYPE B MARKERS ON NEAREST
RAIL POST BETWEEN SM RAILS.

EARTHWORK SCHEDULE
(SEE SPECIAL PROVISIONS)

LOCATION	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CUBIC YARD	CUBIC YARD	CUBIC YARD	CUBIC YARD
STA. 93+50 TO 96+62	88	66	71	-5
BRIDGE OMISSION				
STA. 97+30 TO 102+00	233	175	868	-693
SUBTOTAL	321	241	939	-698
ALLOWANCE FOR 75% OF CHANNEL EXCAVATION IN EMBANKMENT				+112
TOTAL				-586

NOTE: SCHEDULE ASSUMES A 25% SHRINKAGE FACTOR.

GENERAL NOTES

- ALL ELEVATIONS REFER TO U.S.G.S. MEAN SEA LEVEL.
- UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY ON HIS OPERATIONS ACCORDINGLY.
- THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING CURING TIME FOR VARIOUS BITUMINOUS LIFTS.
- EXISTING SIDE SLOPES SHALL HAVE TOPSOIL REMOVED AND BENCHED TO SATISFACTION OF ENGINEER BEFORE RECEIVING EMBANKMENT. COST TO BE INCLUDED IN THE VARIOUS ITEMS OF EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED BECAUSE OF THIS WORK.
- THE FOLLOWING MATERIALS SHALL BE USED. NO OTHER KIND OF MATERIAL WILL BE PERMITTED AS AN ALTERNATE.

ITEM	MATERIAL
PIPE CULVERTS, CLASS A	REINFORCED CONCRETE CULVERTS, STORM DRAIN, AND SEWER PIPE
- NO TREE REMOVAL BETWEEN APRIL 1 THRU SEPTEMBER 30 TO PROTECT FEDERALLY ENDANGERED INDIANA BAT.
- ALL EMERGENCY, SCHOOL AND POSTAL SERVICES WILL BE NOTIFIED BEFORE CONSTRUCTION BEGINS.
- FIELD AND PRIVATE ENTRANCES WILL REMAIN ACCESSIBLE, AS DIRECTED BY THE ENGINEER, THROUGHOUT THE TIME OF CONSTRUCTION.
- THE COUNTY WILL COORDINATE THE DETOUR ROUTE WITH THE DISTRICT BEFORE CONSTRUCTION.
- THE COUNTY WILL COORDINATE WITH THE CARLYLE LAKE CORPS OF ENGINEERS OFFICE FOR THE LOCAL CORPS APPROVAL FOR FILL IN CARLYLE LAKE FLOWAGE EASEMENT BEFORE CONSTRUCTION.

COMMITMENTS

- A TEMPORARY FENCE WITH NO INTRUSION SIGNS WILL BE INSTALLED ALONG THE CONSTRUCTION LIMITS FROM STA. 95+00 TO 96+50, RT. DUE TO THE CLOSE PROXIMITY OF WETLAND SITE 1.

EXTRA BARS FOR TEST SAMPLES

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	1	#7	12'-2"	—
h ₂ (E)	1	#4	28'-4"	—
u(E)	1	#6	10'-1"	□
v(E)	1	#5	9'-3"	—

THESE BARS SHALL BE IDENTICAL TO AND DELIVERED WITH THE BARS OF THE SAME MARK LISTED IN THE STRUCTURE SHEETS. ONE BAR OF EACH OF THESE MARKS WILL BE SELECTED BY THE ENGINEER TO BE USED AS A TEST SAMPLE.

THIS CHART ASSUMES THAT ALL BARS OF THE SAME SIZE ON THE JOB WILL HAVE THE SAME HEAT NUMBER. IF BARS OF THE SAME SIZE ON THE JOB HAVE DIFFERENT HEAT NUMBERS, THEN THE CONTRACTOR SHALL SUPPLY ADDITIONAL BARS FROM OTHER HEAT NUMBERS FOR SAMPLING BY THE ENGINEER AT NO ADDITIONAL COST.

LOCATION OF WORK		CONSTRUCTION CODE 0011	
SUMMARY OF QUANTITIES			TOTAL QUANTITY
CODE NO.	ITEM	UNIT	
20200100	EARTH EXCAVATION	CU. YD.	321
20300100	CHANNEL EXCAVATION	CU. YD.	149
20400800	FURNISHED EXCAVATION	CU. YD.	586
25000200	SEEDING, CLASS 2	ACRE	0.7
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	63
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	63
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	63
25100115	MULCH, METHOD 2	ACRE	0.7
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	70
28000315	AGGREGATE DITCH CHECKS	TON	20
28100809	STONE DUMPED RIPRAP, CLASS A5	TON	302
28500100	FABRIC FORMED CONCRETE REVETMENT MAT	SQ. YD.	648
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	60
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	575
40600300	AGGREGATE (PRIME COAT)	TON	11
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	593
40603315	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	TON	364
48100100	AGGREGATE SHOULDERS, TYPE A	TON	360
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	126
50300225	CONCRETE STRUCTURES	CU. YD.	29.0
50300280	CONCRETE ENCASMENT	CU. YD.	2.8
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ. FT.	1,867
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	5,630
50901050	STEEL RAILING, TYPE SM	FOOT	136
51201610	FURNISHING STEEL PILES HP12x63	FOOT	168
51202305	DRIVING PILES	FOOT	168
51203610	TEST PILE STEEL HP12x63	EACH	2
51500100	NAME PLATES	EACH	1
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	359
542A0229	PIPE CULVERTS, CLASS A, TYPE 1 24"	FOOT	64
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	4
54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24"	EACH	4
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ. YD.	208
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	400
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU. YD.	24
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	275
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
63200310	GUARDRAIL REMOVAL	FOOT	160
67100100	MOBILIZATION	L SUM	1
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
* 78200420	GUARDRAIL MARKERS, TYPE B	EACH	2
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

* THESE ITEMS ARE CONSIDERED SPECIALTY ITEMS.

ENTRANCE SCHEDULE

LOCATION			AGG. SURFACE COURSE, TYPE B
STA.	TYPE		TON
94+47	RT.	F.E.	—
100+14	LT.	F.E.	—
100+16	RT.	P.E.	30
100+72	RT.	P.E.	30

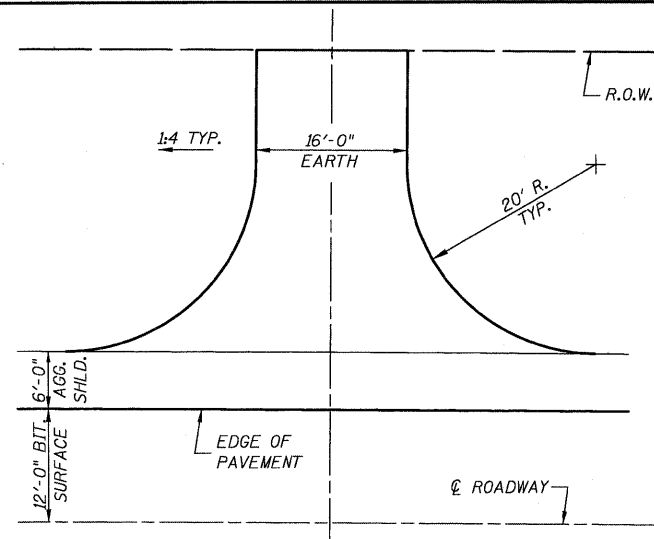
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES, GENERAL NOTES AND SCHEDULES

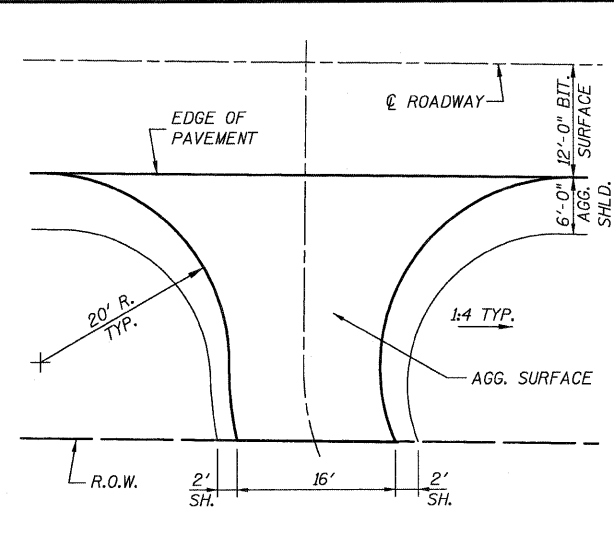
SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	2
S.M. 003-3052			CONTRACT NO. 97469	
ILLINOIS FED. AID PROJECT				

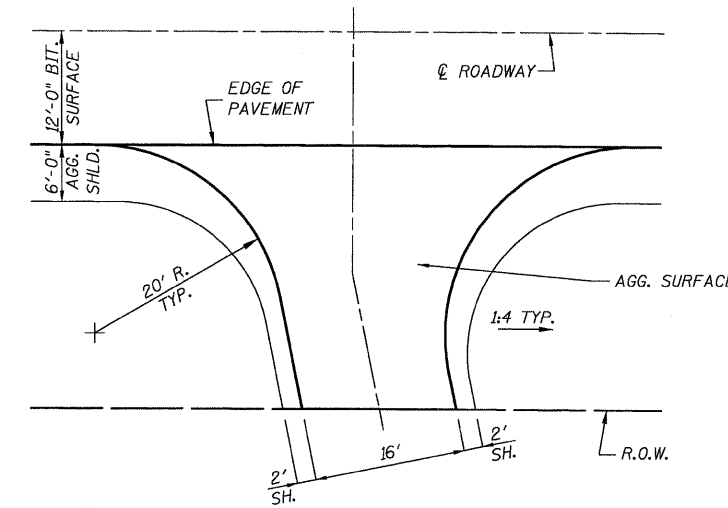
FILE NAME	USER NAME	DESIGNED	REVISED
h:\5789\02-sqy-5789.dgn	USERDESCR.	B.I.B.	-
		L.D.G.	-
		K.H.L.	-
		B.G.H.	-



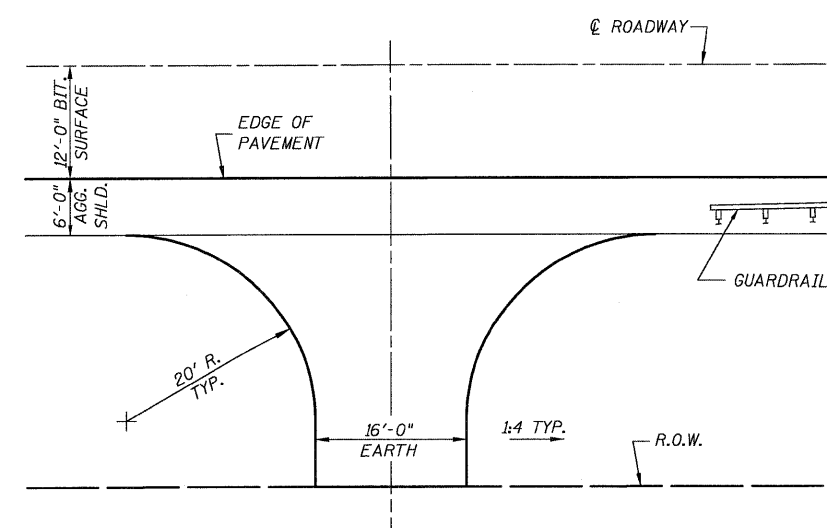
FIELD ENTRANCE LT.
STA. 100+14



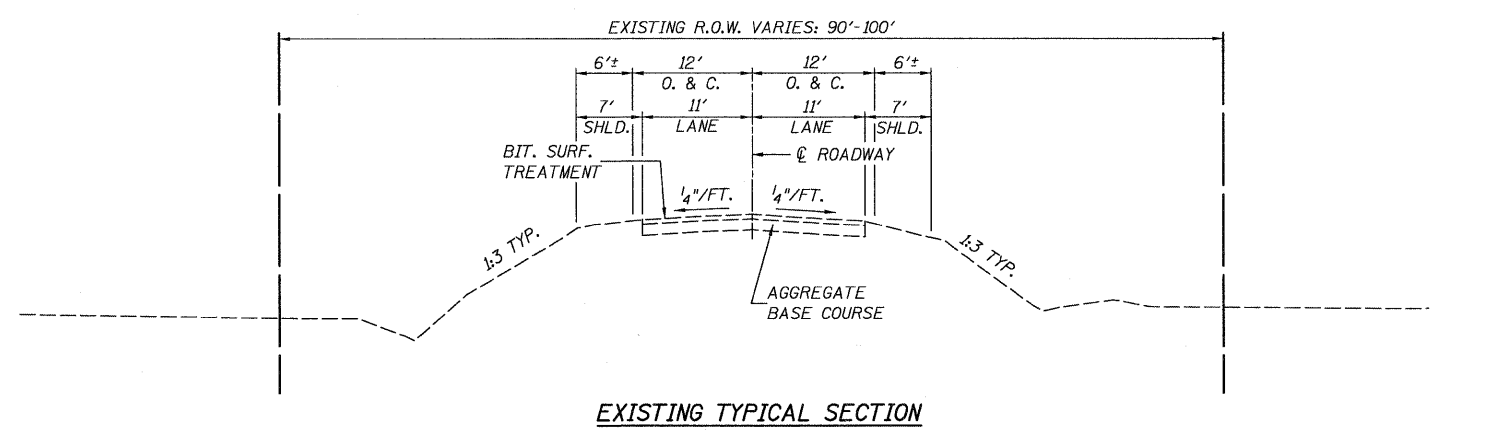
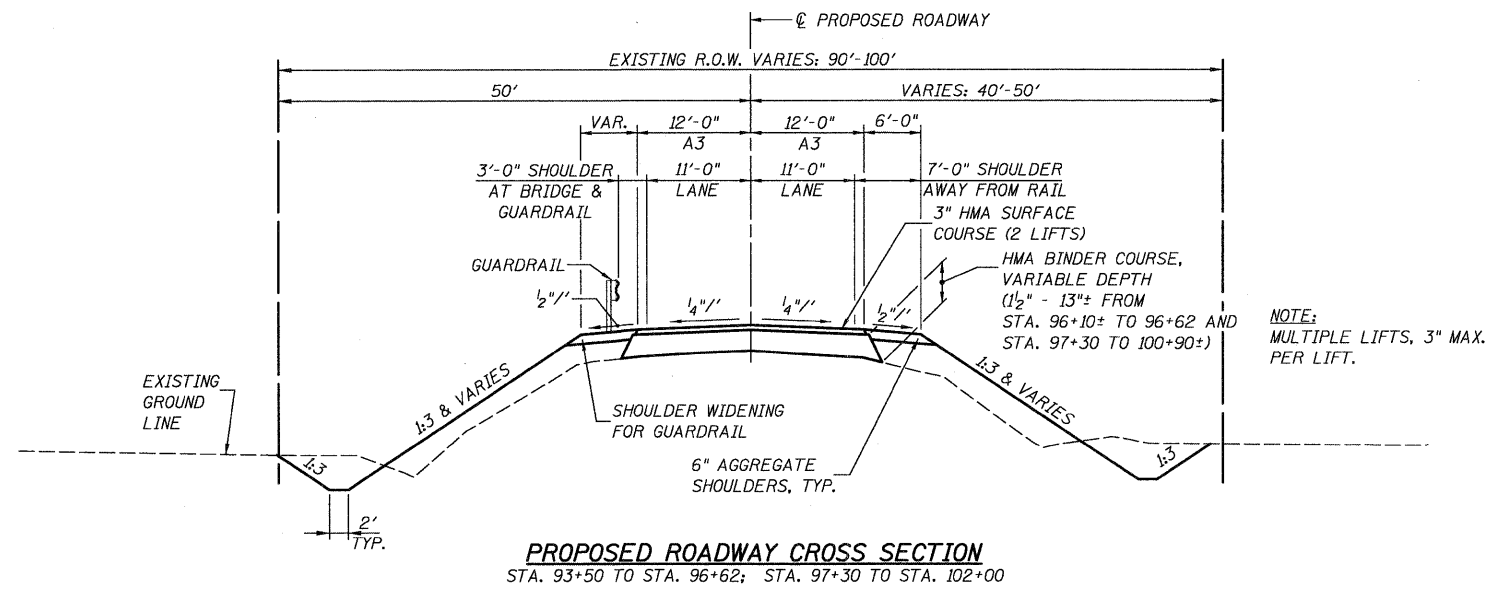
PRIVATE ENTRANCE RT.
STA. 100+72



PRIVATE ENTRANCE RT.
STA. 100+16



FIELD ENTRANCE RT.
STA. 94+47



MIXTURE REQUIREMENTS - SUPERPAVE PROJECT

ROUTE	F.A.S. 782 (C.H. 10)
SECTION	07-00084-00-BR/ 07-00088-00-BR
COUNTY	BOND/CLINTON
CONTRACT	97469

DESCRIPTION: KEYESPORT RD. OVER
TRIBUTARY TO CARLYLE LAKE
20 YR. ESAL'S: 0.27

MIXTURE USE	SURFACE	BINDER
AC/PG	PG 64-22	PG 64-22
RAP % (MAX)	0%	10%
DESIGN AIR VOIDS	4.0% @ Ndes=70	4.0% @ Ndes=70
MIX COMPOSITION (GRADATION MIXTURE)	IL 9.5	IL 19.0
FRICTION AGG	MIXTURE C	N/A

FILE NAME =	USER NAME = .USERDESCR.	DESIGNED - B.I.B.	REVISED -
h:\5789\83_rdos_5789.dgn		CHECKED - L.D.G.	REVISED -
	PLOT SCALE = 10.0016' / IN.	DRAWN - K.H.L.	REVISED -
	PLOT DATE = 4/12/2011	CHECKED - B.G.H.	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL ROADWAY CROSS SECTIONS AND SCHEDULES

SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	3
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

LEGEND

T POST MOUNTED SIGN

ALL ITEMS OF WORK INVOLVED WITH THE ROAD CLOSURE WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION.

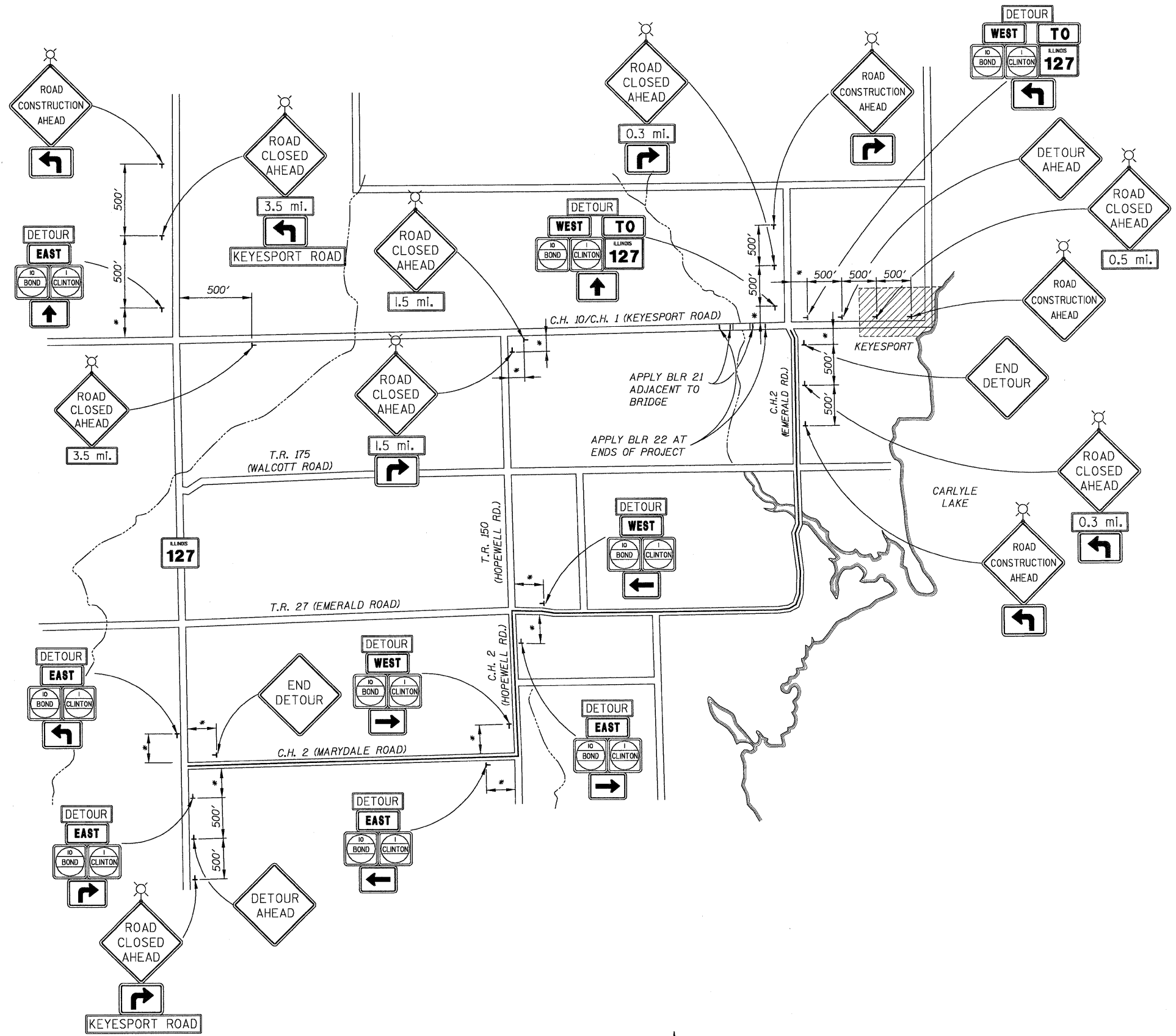
☼ ALL ROAD CONSTRUCTION AHEAD SIGNS AND ROAD CLOSED AHEAD SIGNS SHALL HAVE FLASHING LIGHTS.

NOTES:

ENGINEER MAY MODIFY SIGN PLACEMENT TO MEET FIELD CONDITIONS.

DETOUR SIGNING ASSEMBLY SHALL MAINTAIN THE HEIGHT TO THE BOTTOM OF THE LOWEST SIGN NO LESS THAN 5 FEET ABOVE THE EDGE OF PAVEMENT.

* 200' TYPICAL TO FIRST SIGN OR TO MEET FIELD CONDITIONS.



DETOUR MAP WITH SIGNING

FILE NAME =	USER NAME =
h:\5789\05.Detour-5789.dgn	_USERDESCR_

PLOT SCALE =	PLOT DATE =
200.0004 / / IN.	4/12/2011

DESIGNED -	CHECKED -	DRAWN -	CHECKED -
B.I.B.	L.D.G.	K.H.L.	B.G.H.

REVISED -	REVISED -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

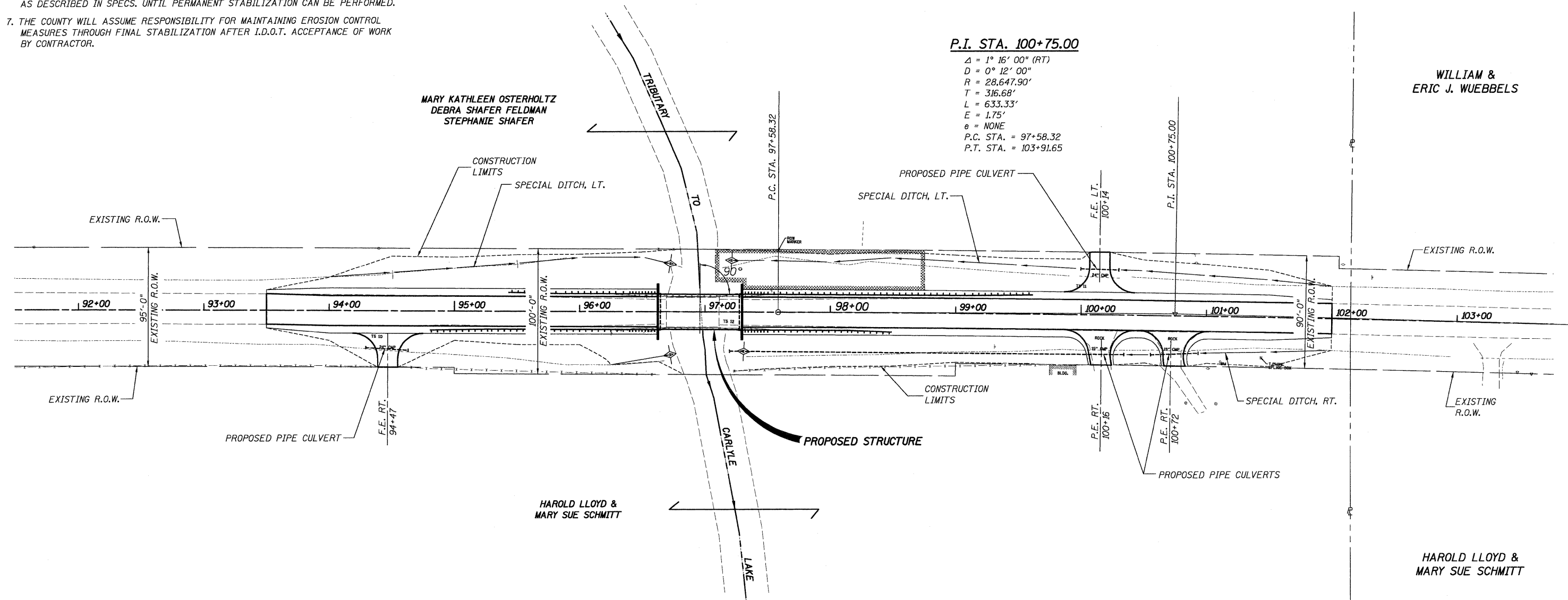
DETOUR MAP
SHEET NO. 1 OF 1 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	5
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

H.M.G. NO. 5789

GENERAL NOTES:

1. CONTRACTOR SHALL CONSULT JOB SPECIFICATIONS FOR MORE INFORMATION.
2. LAYOUT OF EROSION CONTROL MEASURES MAY BE ADJUSTED IN FIELD BY ENGINEER FOR VARYING GROUND CONDITIONS.
3. AGGREGATE DITCH CHECKS SHALL BE PLACED ACCORDING TO THE DETAILS SHOWN ON THIS SHEET AND AS DIRECTED BY THE ENGINEER.
4. HAY OR STRAW BALES SHALL NOT BE USED FOR DITCH CHECKS.
5. CONTRACTOR SHALL PROVIDE STABILIZED CONSTRUCTION ENTRANCES AS NECESSARY TO MINIMIZE OFF SITE VEHICLE TRACKING OF SOIL AND DEBRIS. SEE SPECS.
6. ALL DISTURBED AREAS SHALL RECEIVE TEMPORARY EROSION CONTROL SEEDING AS DESCRIBED IN SPECS. UNTIL PERMANENT STABILIZATION CAN BE PERFORMED.
7. THE COUNTY WILL ASSUME RESPONSIBILITY FOR MAINTAINING EROSION CONTROL MEASURES THROUGH FINAL STABILIZATION AFTER I.D.O.T. ACCEPTANCE OF WORK BY CONTRACTOR.

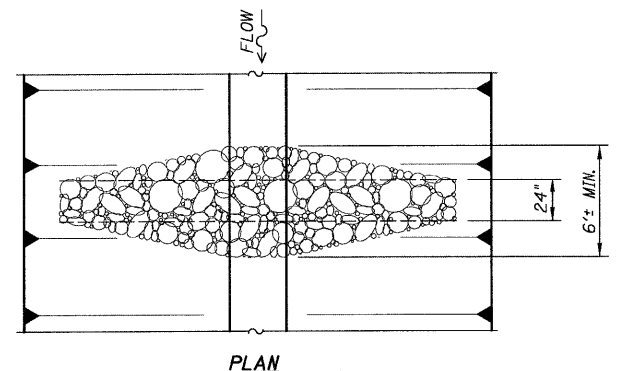


P.I. STA. 100+75.00
 $\Delta = 1^\circ 16' 00''$ (RT)
 $D = 0^\circ 12' 00''$
 $R = 28,647.90'$
 $T = 316.68'$
 $L = 633.33'$
 $E = 1.75'$
 $\theta = \text{NONE}$
 $P.C. STA. = 97+58.32$
 $P.T. STA. = 103+91.65$

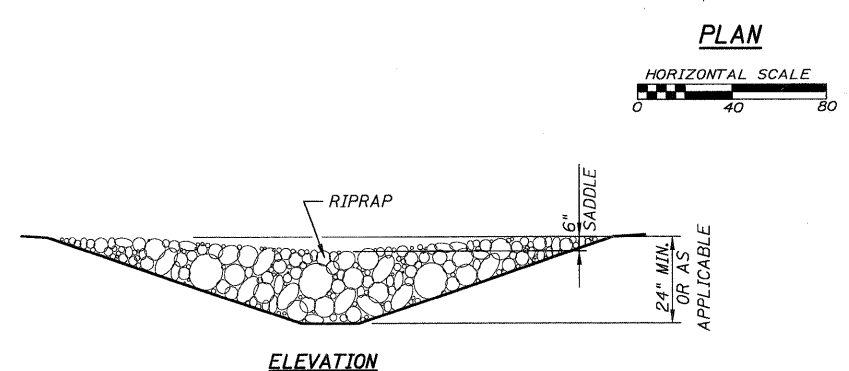
WILLIAM & ERIC J. WUEBBELS

HAROLD LLOYD & MARY SUE SCHMITT

HAROLD LLOYD & MARY SUE SCHMITT



AGGREGATE DITCH CHECK



ELEVATION



EROSION CONTROL LEGEND

- AGGREGATE DITCH CHECK
- FLOW DIRECTION
- REVETMENT MAT

FILE NAME = h:\5789\06_eros_5789.dgn	USER NAME = .USERDESCR.	DESIGNED - B.I.B.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL PLAN	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 48.0000' / IN.	CHECKED - L.D.G.	REVISED -			782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	6
PLOT DATE = 4/12/2011	DRAWN - K.H.L.	CHECKED - B.G.H.	REVISED -	SHEET NO. 1 OF 1 SHEETS		S.N. 003-3052		CONTRACT NO. 97469		
HENRY, MEISENHEIMER & GENDE, INC. LAKE ROAD, P.O. BOX 70 CARLYLE, ILL. 62231 (618) 594-3711 WWW.HMGENGINEERS.COM						ILLINOIS FED. AID PROJECT				

H.M.G. NO. 5789

BENCHMARK: T.B.M. Nail in Power Pole
Sta. 94+39.36, 49.6' Lt.
El. 465.910

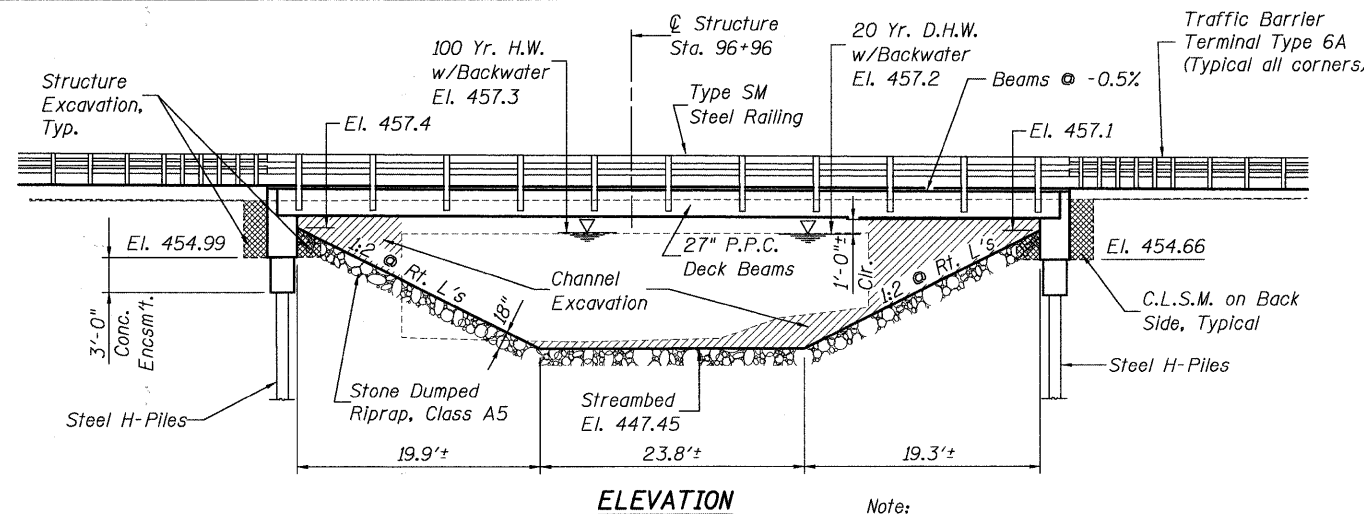
EXISTING STRUCTURE S.N. 003-3019

The existing structure, constructed in 1955, consists of a single span concrete deck and steel beams on closed abutments with timber piles. The structure has an overall length of 42'-6" back-to-back of abutments and a width of 26'-0" out to out of the deck.

The Contractor shall remove and dispose of the existing structure in accordance with Section 501 of the Standard Specifications.

The existing roadway will be closed to traffic during the construction period.

SALVAGE: No salvage



ELEVATION
Note: Channel excavation shall be transitioned from the edge of the proposed deck to match the existing channel at the R.O.W. line.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Bridge Design Specifications

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ p.s.i.
 $f'_{ci} = 5,000$ p.s.i.
 $f'_s = 270,000$ p.s.i. ($\frac{1}{2}$ " ϕ Strands)
 $f'_{si} = 201,960$ p.s.i. ($\frac{1}{2}$ " ϕ Strands)

FIELD UNITS

$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i. (reinf.)
 $f_y = 50,000$ p.s.i. (M270 Grade 50)

LOADING HL-93

Allow 50 p.s.f. for future wearing surface

SEISMIC DATA

Seismic Performance Zone (SPZ): 2
Design Spectral Acceleration at 1.0 sec (S_{D1}) = 0.250 g
Design Spectral Acceleration at 0.2 sec (S_{D5}) = 0.572 g
Soil Site Class = D

INDEX OF BRIDGE SHEETS

1. General Plan & Elevation
2. Superstructure
3. 27" x 48" P.P.C. Deck Beam
4. 27" x 48" P.P.C. Deck Beam Details
5. Pile Bent Abutment
6. Steel Railing, Type SM with Hot-Mix Asphalt Wearing Surface
7. HP Pile Details
8. Soil Boring Logs

GENERAL NOTES

1. The Contractor shall drive test piles to 110% of the nominal required bearing specified in production location at substructures specified or approved by the Engineer before ordering remaining piles.
2. Hot-mix asphalt surface course overlay for the bridge deck shall be constructed in accordance with applicable portions of Section 582 of the Standard Specifications.
3. Waterproofing membrane system for the bridge shall be in accordance with material and construction requirements of the applicable portions of Section 581 of the Standard Specifications.
4. Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.
5. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr. 60 (IL Modified). See Special Provisions.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. Deck beams shall be cleaned to the satisfaction of the Engineer before placing the waterproofing membrane system.
8. Structure Excavation shall not be paid for separately, but shall be included in cost of Concrete Structures. See Standard Specifications.

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (Feet)	W. Abut.	E. Abut.
	451.99	451.66

WATERWAY INFORMATION

Drainage Area = 7.35 Sq.Mi.		Low Grade Elev. = 459.60		Sta. 100+24					
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exlst.	Prop.		Exlst.	Prop.	Exlst.	Prop.
Base	10	1,200	316	418	457.2	0.1	0.1	457.3	457.3
Design	20	1,460	317	417	457.2	0.2	0.1	457.4	457.3
Base	100	2,200	317	415	457.3	1.1	0.2	458.4	457.5
Overtopping	N/A								
Max. Calc.	500	2,940	317	412	457.4	1.7	0.5	459.1	457.9

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER.	SUB.	TOTAL
Channel Excavation	Cu. Yd.			149
Stone Dumped Riprap, Class A5	Ton			302
Hot-Mix Asphalt Surface Course, Mix "C", N70	Ton	35		35
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		29.0	29.0
Concrete Encasement	Cu. Yd.		2.8	2.8
Prec. Pres. Conc. Dk. Bms. (27" Depth)	Sq. Ft.	1,867		1,867
Reinforcement Bars, Epoxy Coated	Pound		5,560	5,560
Steel Railing, Type SM	Foot	136		136
Furnishing Steel Piles HP 12x63	Foot		168	168
Driving Steel Piles	Foot		168	168
Test Pile Steel HP 12x63	Each		2	2
Name Plates	Each			1
Waterproofing Membrane System	Sq. Yd.	208		208
Portland Cement Mortar Fairing Course	Foot	400		400
Controlled Low-Strength Material	Cu. Yd.			24

Tributary to Carlyle Lake
Built 201 by
Bond County
Section 07-00084-00-BR
Clinton County
Section 07-00088-00-BR
F.A.S. 782 Station 96+96
S.N. 003-3051 Loading HL93
Proj. No. BRS-0782(120)

NAME PLATE

See Std. 515001.
Locate Name Plate as shown in Plan View.

GENERAL PLAN & ELEVATION
F.A.S. 782 (C.H. 10/KEYESPORT RD.)
OVER TRIBUTARY TO CARLYLE LAKE
SECTION 07-00084-00-BR
BOND COUNTY
SECTION 07-00088-00-BR
CLINTON COUNTY
STATION 96+96
STRUCTURE NO. 003-3051



"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' including seismic design."

Bradley G. Hummert Date: 4/12/11

Bradley G. Hummert
Licensed Structural Engineer
In Illinois No. 081-005428 Expires: November 30, 2012

FILE NAME = ha\5789\07.gpe\15789.dgr

USER NAME = _USERDESCR_

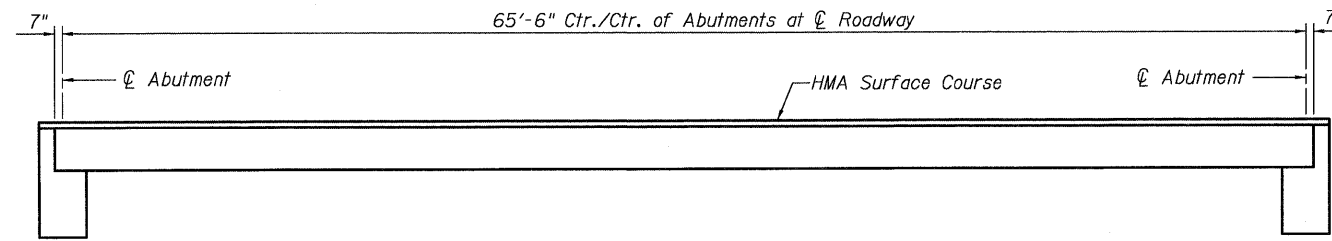
DESIGNED - B.I.B.
CHECKED - L.D.G.
DRAWN - K.H.L.
CHECKED - B.G.H.

REVISED -
REVISED -
REVISED -
REVISED -

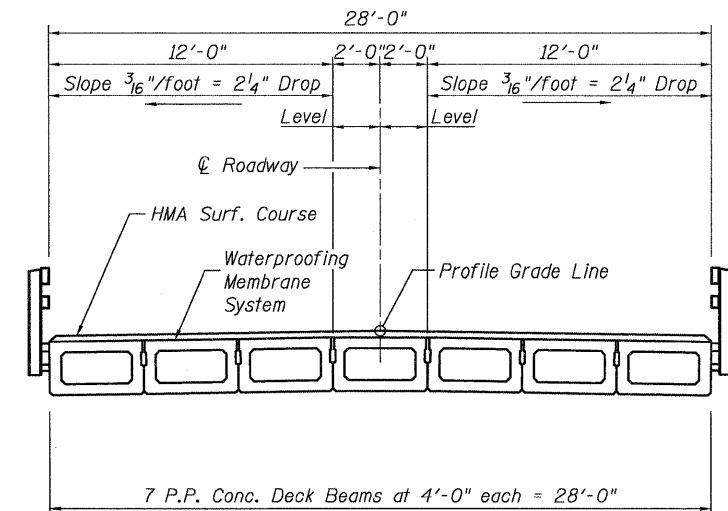
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN & ELEVATION

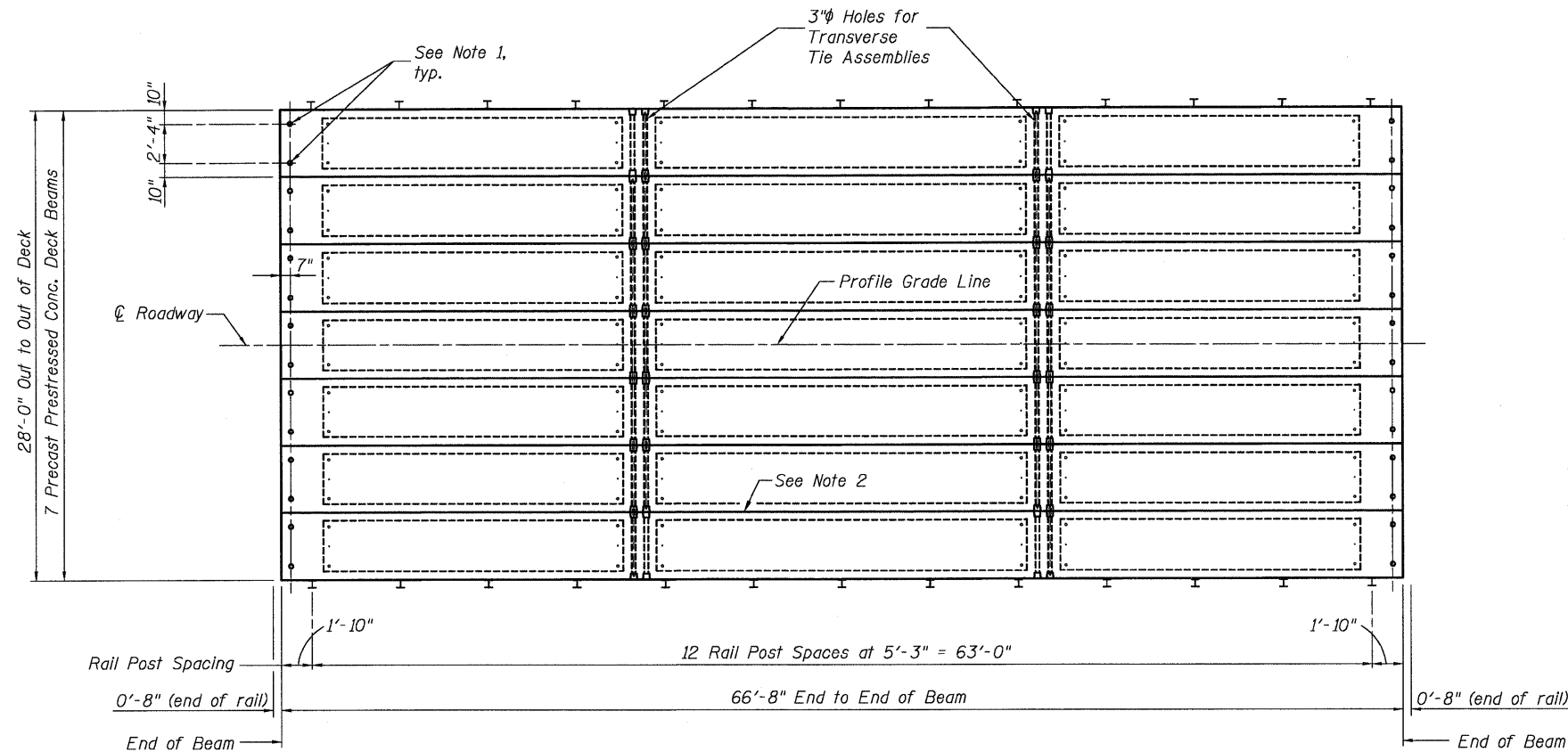
F.A.S. SECTION COUNTY TOTAL SHEETS SHEET NO.
782 07-00084-00-BR/07-00088-00-BR BOND/CLINTON 19 7



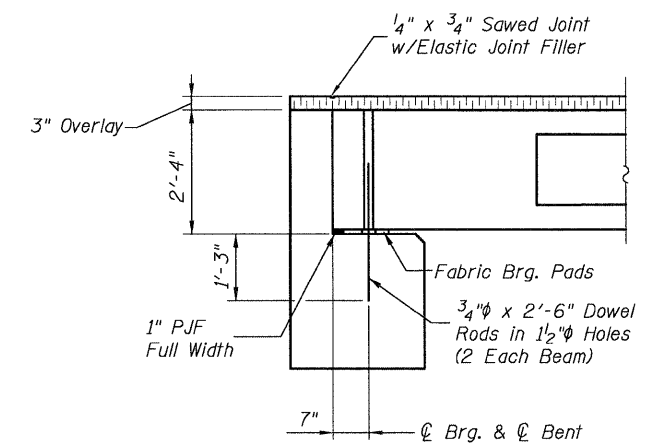
ELEVATION



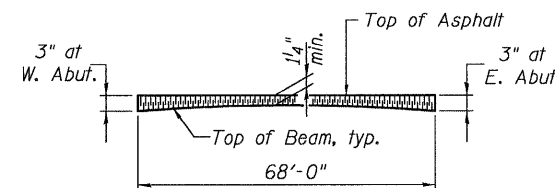
CROSS SECTION



PLAN



SECTION AT ABUTS.
(Along ϕ Beams)



PROFILE OF OVERLAY

NOTES

- After beams have been erected, holes shall be drilled into substructure and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of beam and allowed to cure min. 24 hrs. prior to grouting the shear keys.
- Longitudinal keys shall be grouted.

BILL OF MATERIAL

Item	Unit	Quantity
Portland Cement Mortar Fairing Course	Foot	400
Waterproofing Membrane System	Sq. Yd.	208
Hot-Mix Asphalt Surf. Cse., Mix "C", N70	Ton	35

FILE NAME =
h:\5789\88_sstr_5789.dgn

USER NAME = USERDESCR.
PLOT SCALE = 5.0000' / IN.
PLOT DATE = 4/12/2011

DESIGNED - B.I.B.
CHECKED - L.D.G.
DRAWN - K.H.L.
CHECKED - B.G.H.

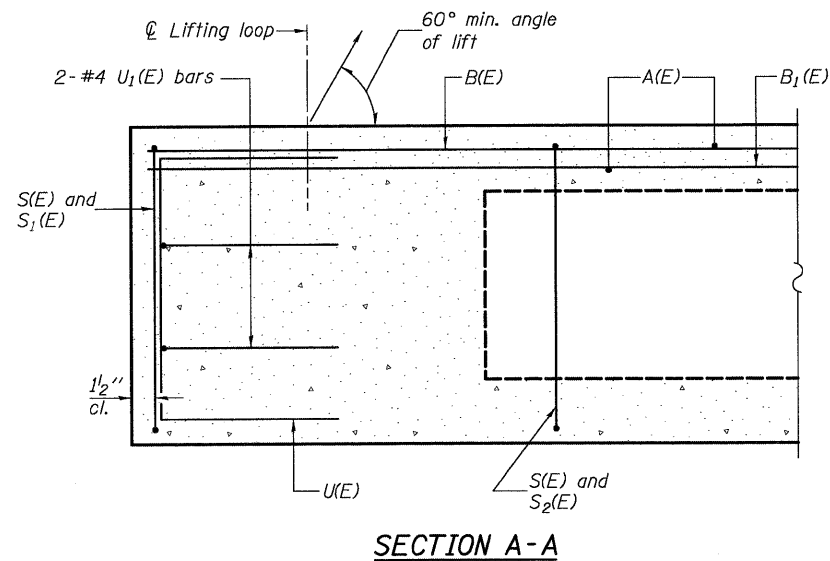
REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

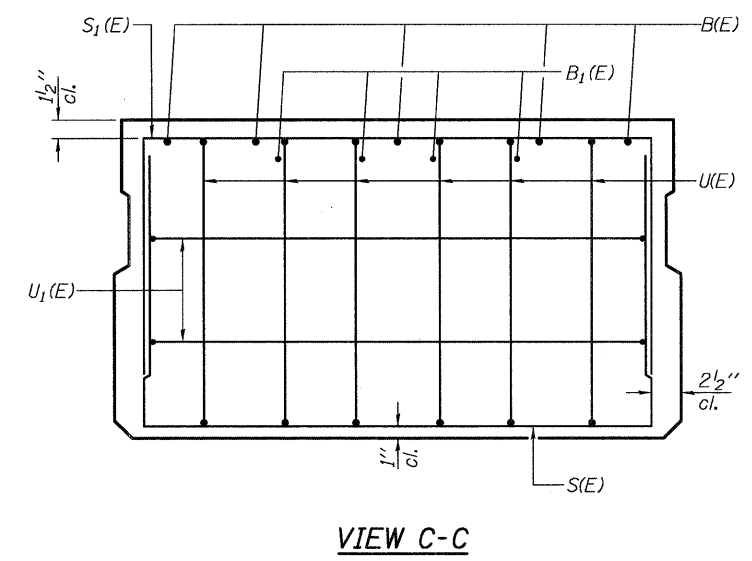
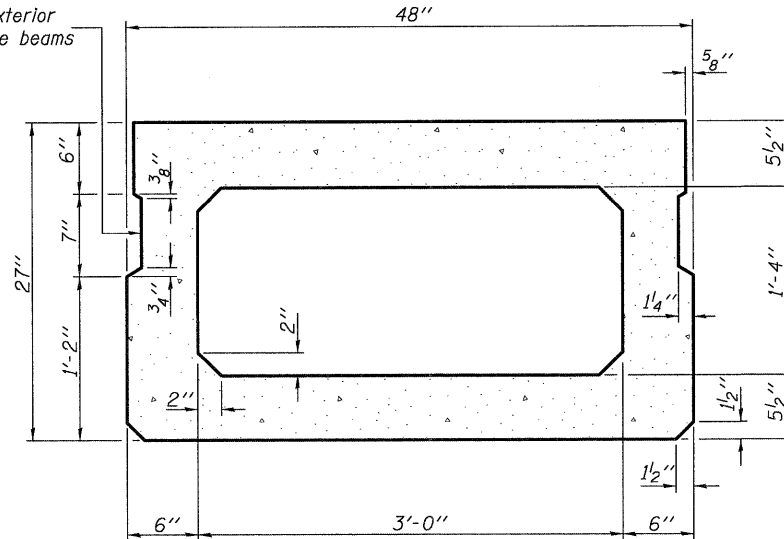
SUPERSTRUCTURE

SHEET NO. 2 OF 8 SHEETS

F.A.S.1 RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	8
S.N. 003-3052			CONTRACT NO. 97469	
ILLINOIS FED. AID PROJECT				



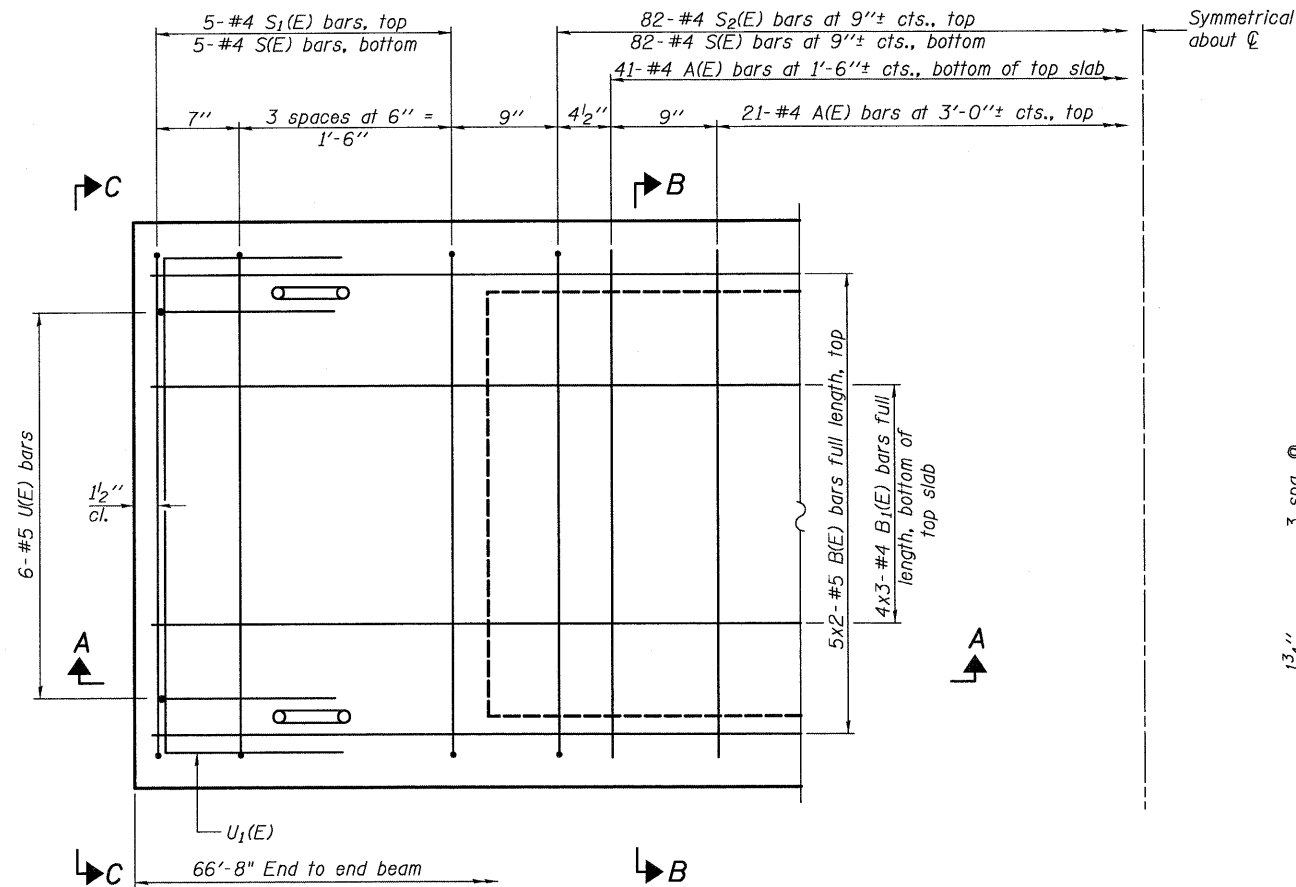
Omit key on exterior face of outside beams



SECTION A-A

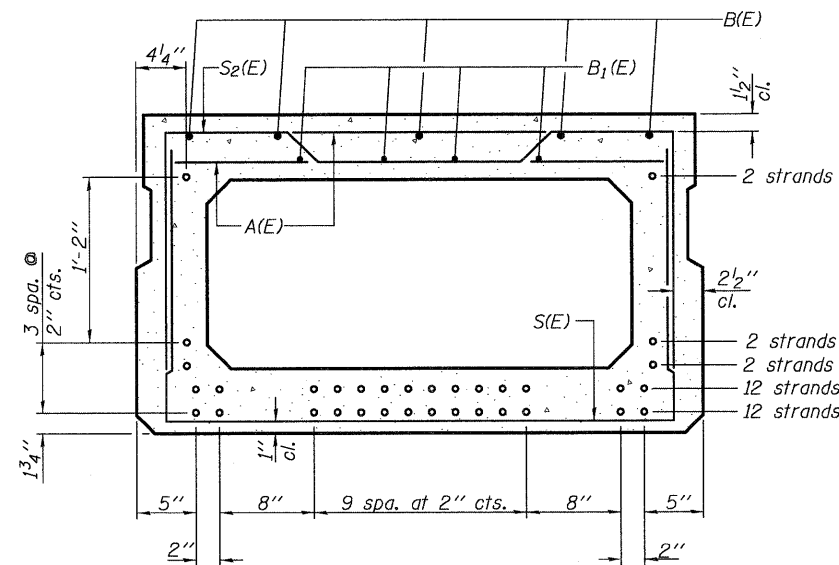
SECTION B-B
(Showing dimensions)

VIEW C-C



Symmetrical about centerline

PLAN VIEW



SECTION B-B
(Showing reinforcement and permissible strand locations)

30 - 1/2" strands
(12 strands 1 3/4" up, 12 strands 3 3/4" up, 2 strands 5 3/4" up, 2 strands 7 3/4" up, 2 strands 21 3/4" up)

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

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	62	#4	3'-7"	—
B(E)	10	#5	34'-10"	—
B1(E)	12	#4	23'-11"	—
S(E)	92	#4	7'-5"	U
S1(E)	10	#4	6'-11"	U
S2(E)	82	#4	7'-2"	U
U(E)	12	#5	4'-6"	C
U1(E)	4	#4	6'-0"	C

Note: See sheet 4 of 8 for additional details and Bill of Material.

MINIMUM BAR LAP

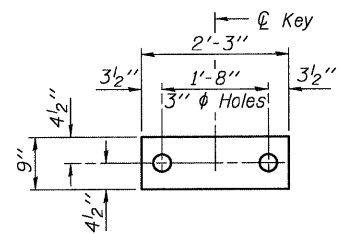
#4 bar = 2'-0"
#5 bar = 2'-6"

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.

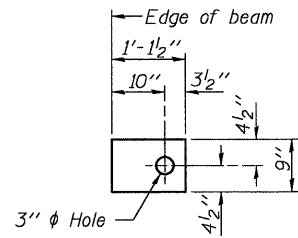
PD-2748-0

7-1-10

FILE NAME = h:\5789\09_dkbn_5789.dgn	USER NAME = _USERDESCR_	DESIGNED - B.I.B.	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	27" x 48" P.P.C. DECK BEAM	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLOT SCALE = 1.0000' / IN.	DRAWN - K.H.L.	CHECKED - L.D.G.	REVISIONS -			782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	9	
PLOT DATE = 4/12/2011	CHECKED - B.G.H.	REVISIONS -	REVISIONS -			S.N. 003-3052		CONTRACT NO. 97469		ILLINOIS FED. AID PROJECT	
SHEET NO. 3 OF 8 SHEETS											



FABRIC BEARING PAD
(Interior)

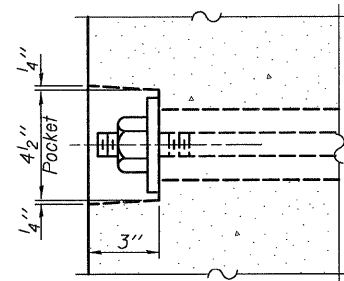


FABRIC BEARING PAD
(Exterior)

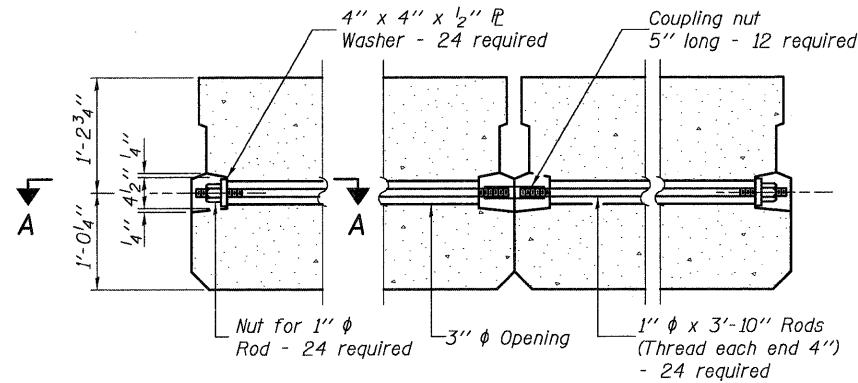
FIXED

Notes:

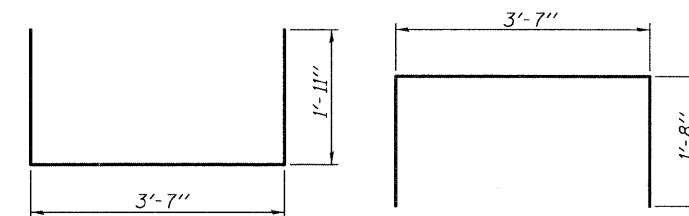
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

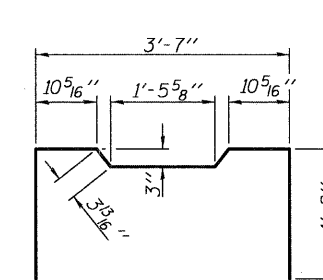


TYPICAL TRANSVERSE TIE ASSEMBLY



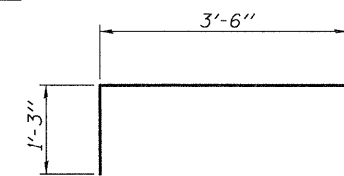
BAR S(E)

BAR S1(E)

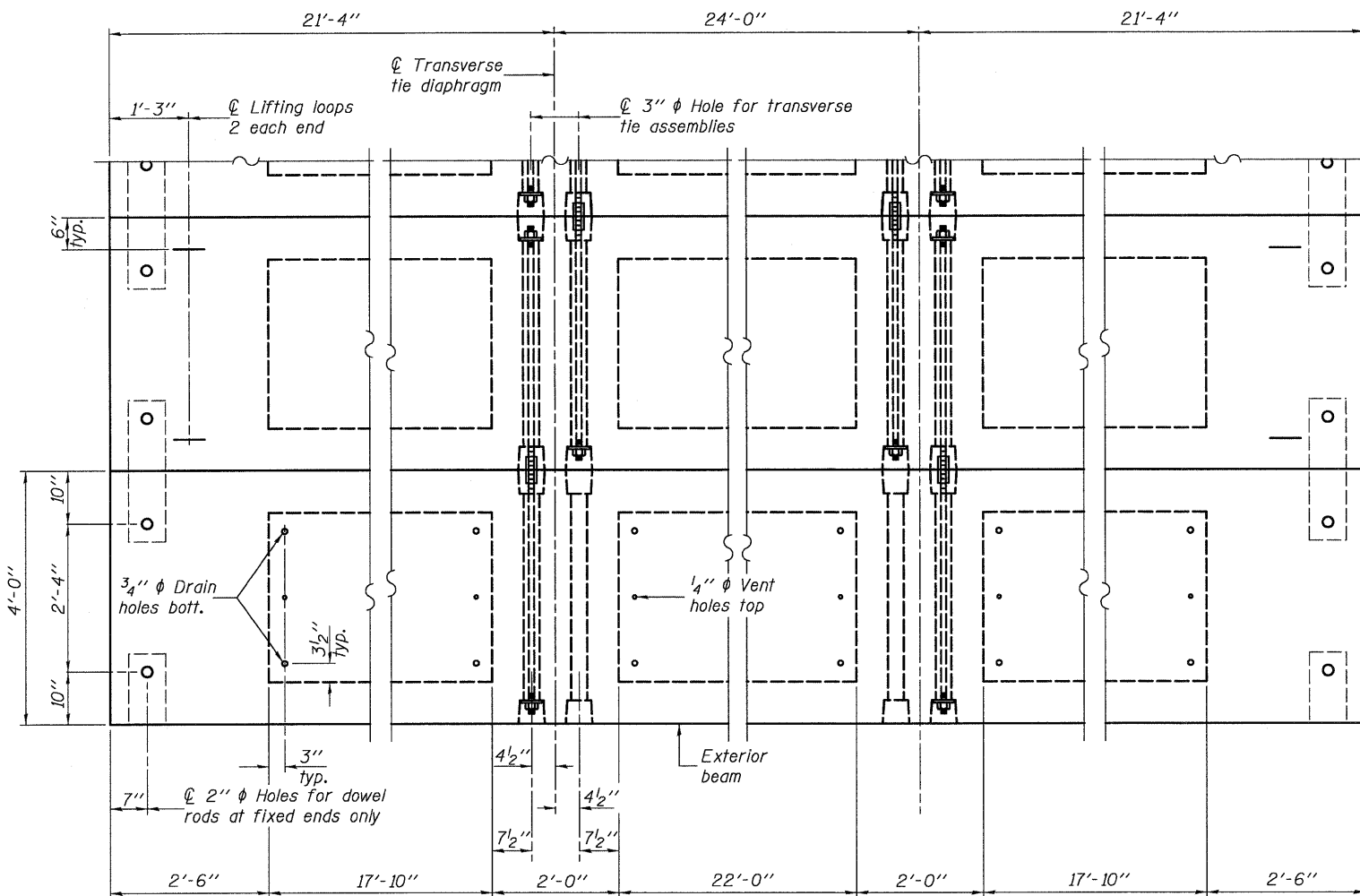


BAR S2(E)

BAR U(E)



BAR U1(E)



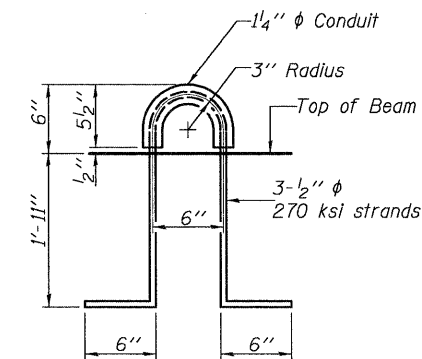
PLAN VIEW

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. (See Special Provisions).
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
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'ci, shall be 5000 psi.

LIFTING LOOP DETAIL



BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,867
---	---------	-------

PD-2748-OD 7-1-10

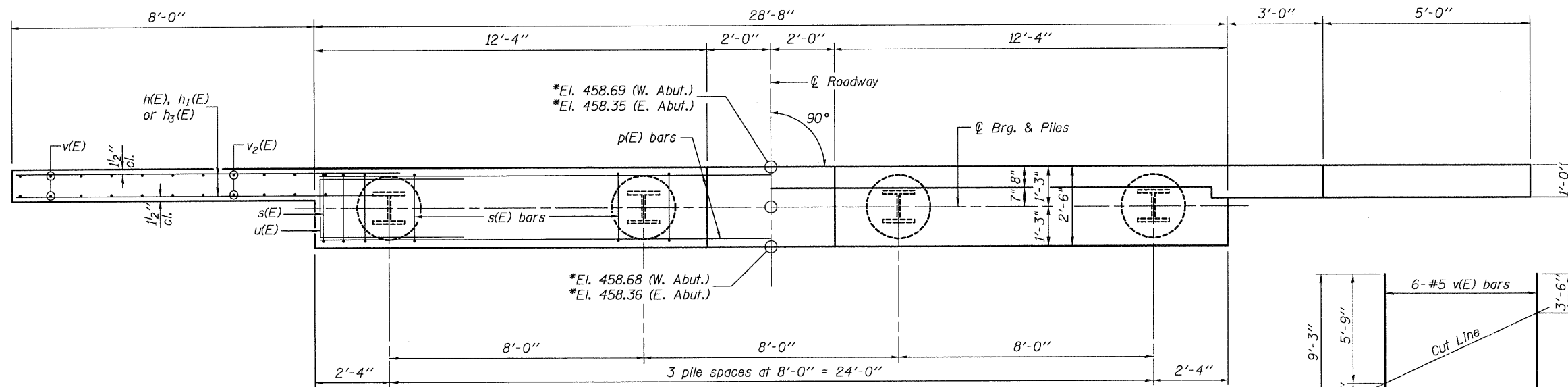
FILE NAME = h:\5789\10_bmdt.5789.dgn	USER NAME = _USERDESCR_	DESIGNED - B.I.B.	REVISED -
		CHECKED - L.D.G.	REVISED -
		DRAWN - K.H.L.	REVISED -
		CHECKED - B.G.H.	REVISED -
PLOT SCALE = 1:8000 1/4 IN.			
PLOT DATE = 4/12/2011			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

27" x 48" P.P.C. DECK BEAM DETAILS

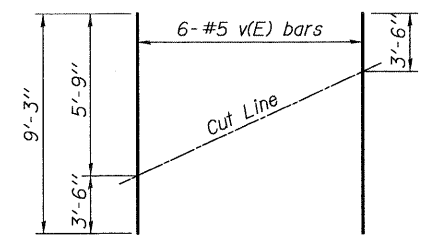
SHEET NO. 4 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	10
S.N. 003-3052			CONTRACT NO. 97469	
ILLINOIS FED. AID PROJECT				



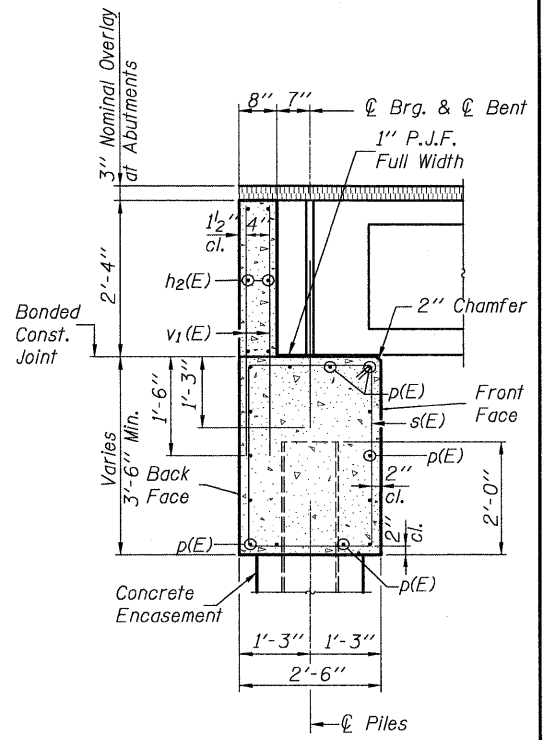
PLAN

* Top of Seat Elevation

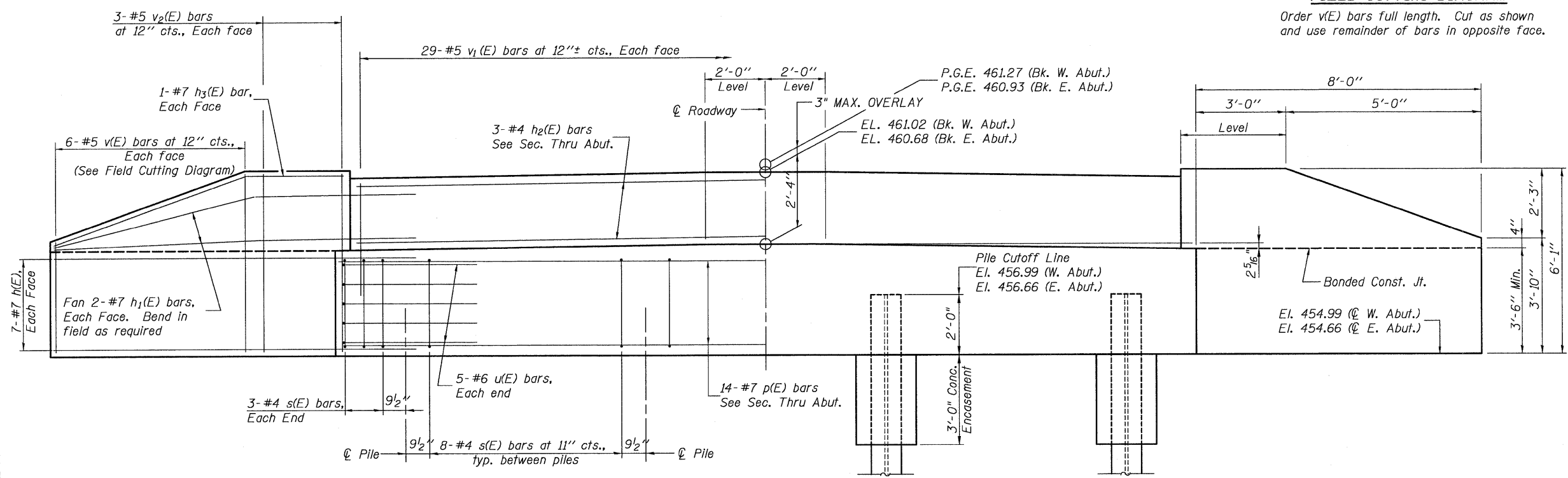


FIELD CUTTING DIAGRAM

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



SECTION THRU ABUTMENT
(at Right Angles)



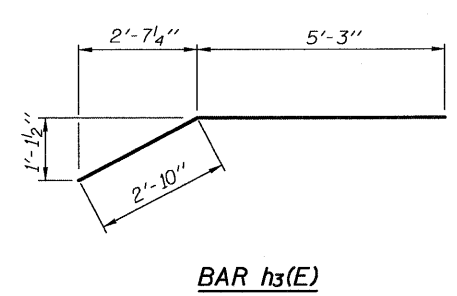
ELEVATION

BILL OF MATERIAL FOR ONE ABUTMENT

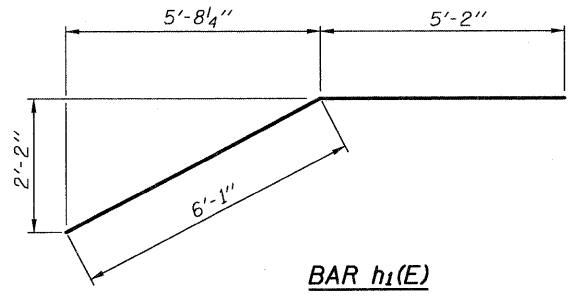
Bar	No.	Size	Length	Shape
h(E)	28	#7	12'-2"	—
h1(E)	8	#7	11'-3"	—
h2(E)	6	#4	28'-4"	—
h3(E)	4	#7	8'-1"	—
p(E)	14	#7	28'-4"	—
s(E)	30	#4	11'-5"	□
u(E)	10	#6	10'-1"	—
v(E)	24	#5	9'-3"	—
v1(E)	58	#5	3'-8"	—
v2(E)	12	#5	5'-9"	—
Concrete Structures			Cu. Yd.	14.5
Reinforcement Bars, Epoxy Coated			Pound	2,780
Concrete Encasement			Cu. Yd.	1.4
Furnishing Steel Piles HP 12x63			Foot	84
Driving Steel Piles			Foot	84
Test Pile Steel HP 12x63			Each	1

PILE DATA

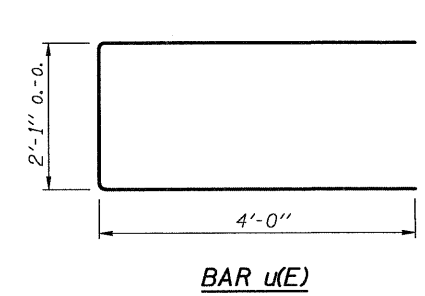
	W. ABUT.	E. ABUT.
Type:	Steel HP12x63	Steel HP12x63
Nominal Required Bearing:	497 k	497 k
Factored Resistance Available:	248 k	248 k
Est. Length:	28 ft.±	28 ft.±
No. Production Piles:	3	3
No. Test Piles:	1	1



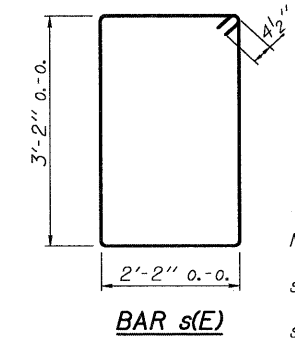
BAR h3(E)



BAR h1(E)

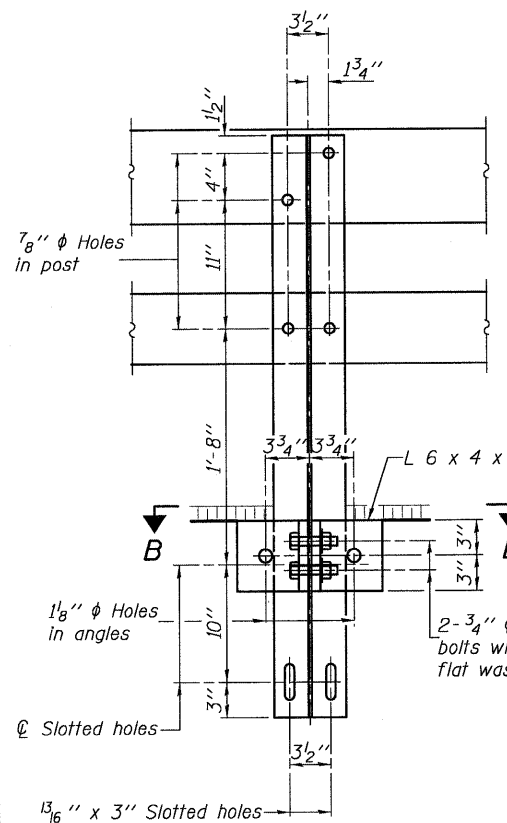


BAR u(E)



BAR s(E)

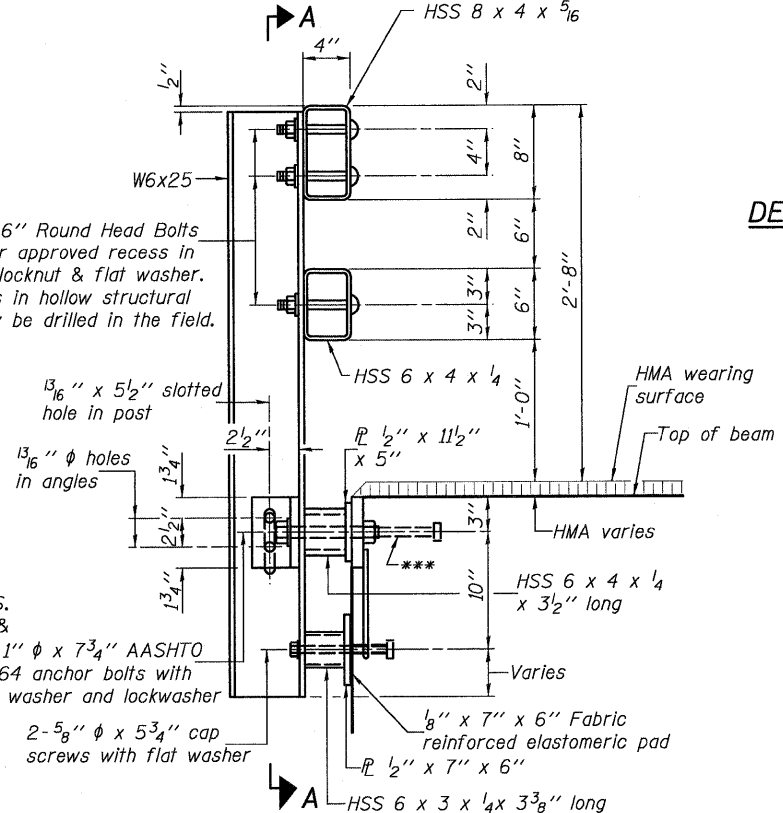
Notes:
For details of piles and Concrete Encasement, see sheet 7 of 8.
Cast backwall after beams and concrete wearing surface, if applicable, have been erected.



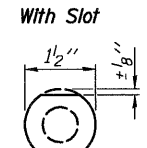
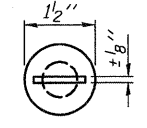
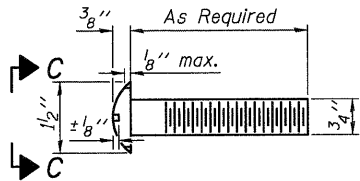
SECTION A-A

4-3/4" 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.

SECTION AT RAIL POST

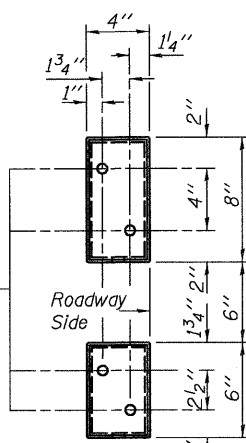


DETAIL OF 3/4" φ ROUND HEAD BOLT

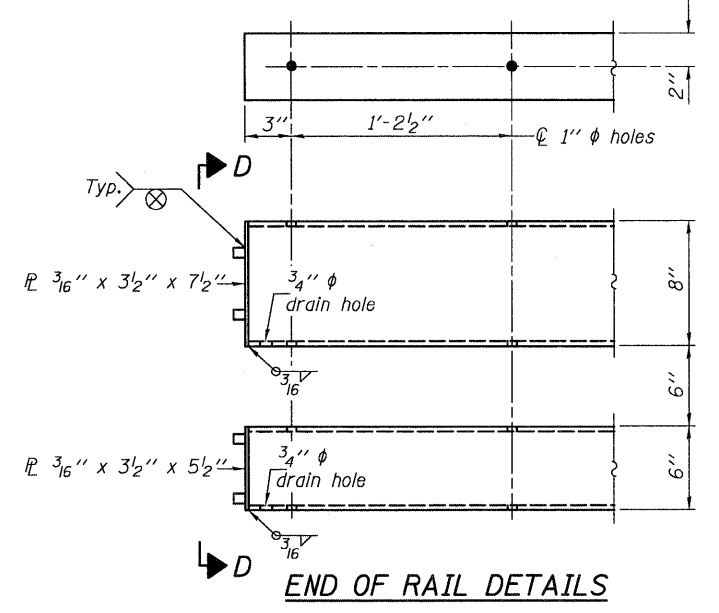


VIEW C-C

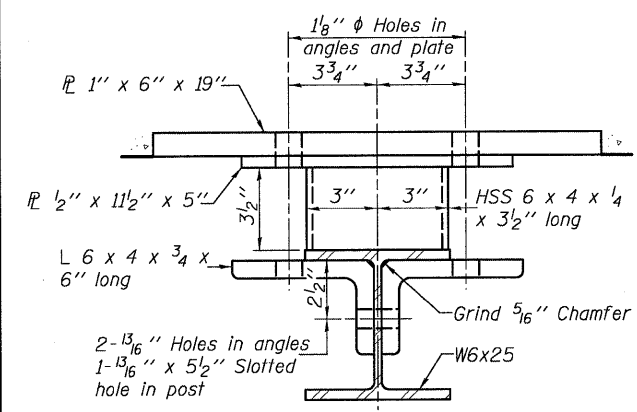
φ - 5/8" reduced base welded studs. Provide 4-5/8" washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



VIEW D-D

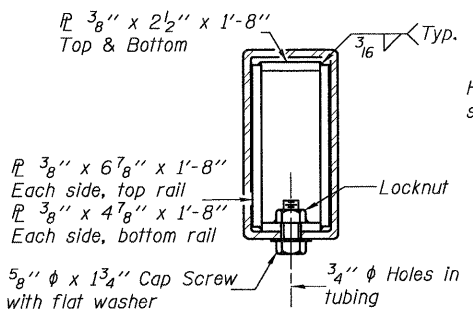
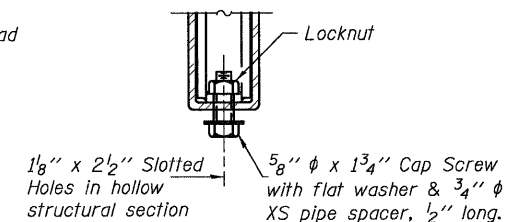


END OF RAIL DETAILS

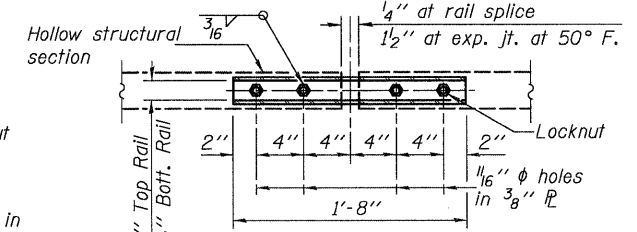


SECTION B-B

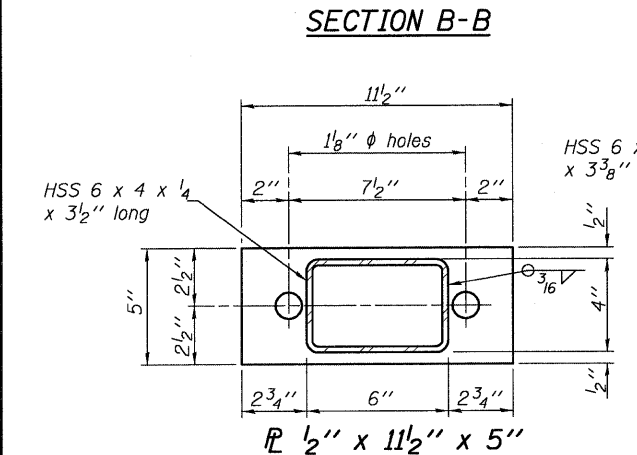
RAIL SPLICE CONNECTION AT EXPANSION JT.



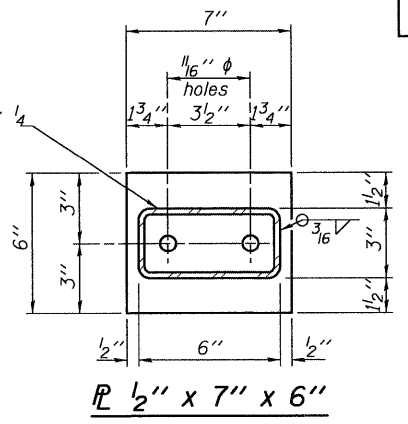
SECTION AT RAIL SPLICE



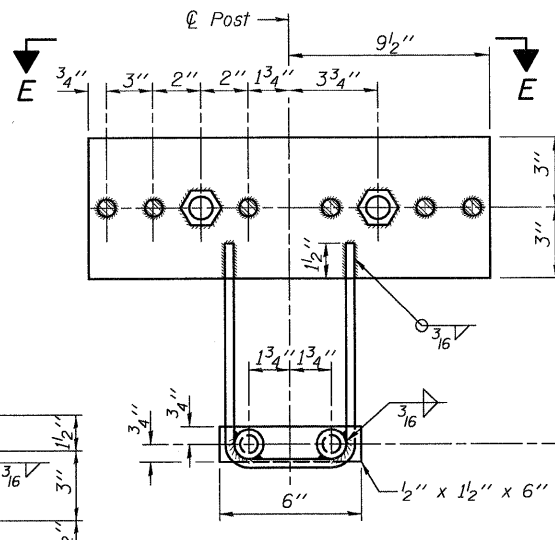
PLAN-BOTT. SPLICE TYPICAL



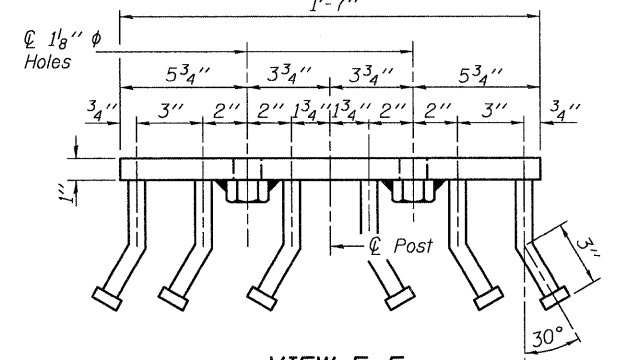
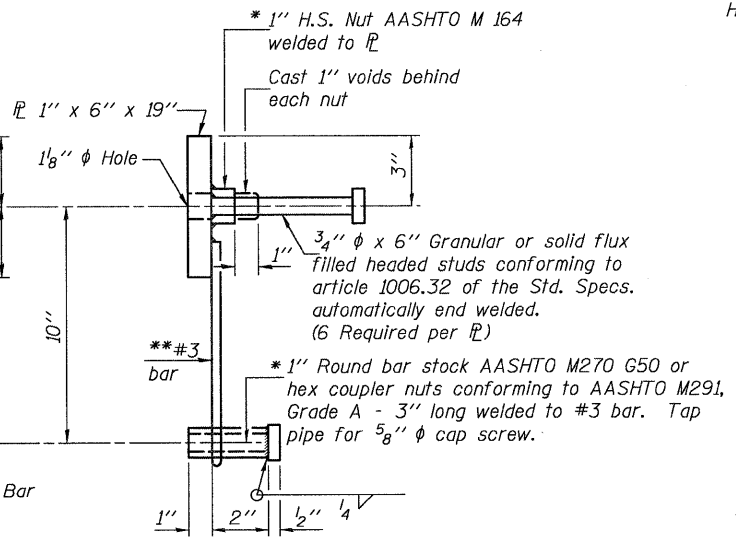
SECTION B-B



SECTION B-B



ANCHOR DEVICE



VIEW E-E

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

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	136

*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".

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

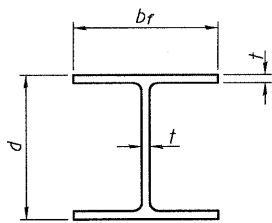
R-34HMAWS 7-1-10 (6'-3" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)

FILE NAME =	USER NAME = .USERDESCR.	DESIGNED - B.I.B.	REVISED -
ha5789\12_r1dt5789.dgn		CHECKED - L.D.G.	REVISED -
		DRAWN - K.H.L.	REVISED -
		CHECKED - B.G.H.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

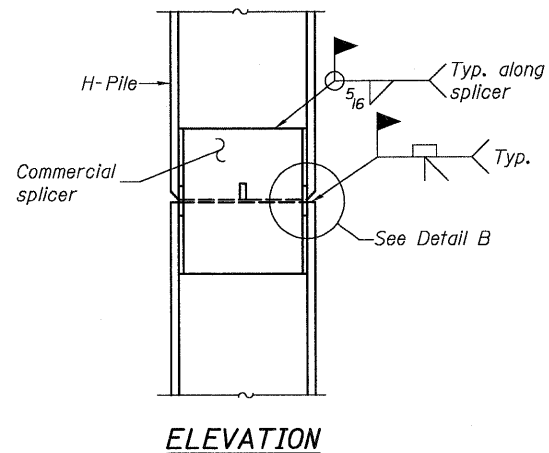
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	12
S.N. 003-3052			CONTRACT NO. 97469	
ILLINOIS FED. AID PROJECT				

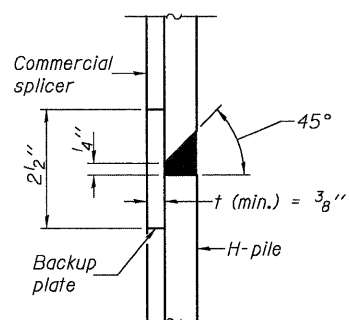


STEEL PILE TABLE

Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/2"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/2"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

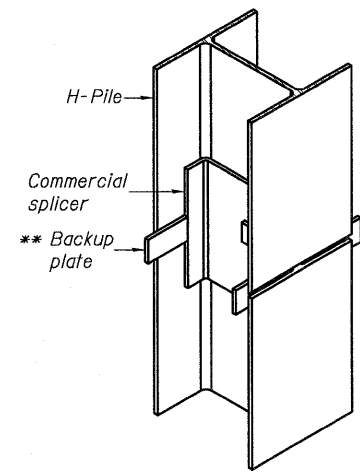


ELEVATION

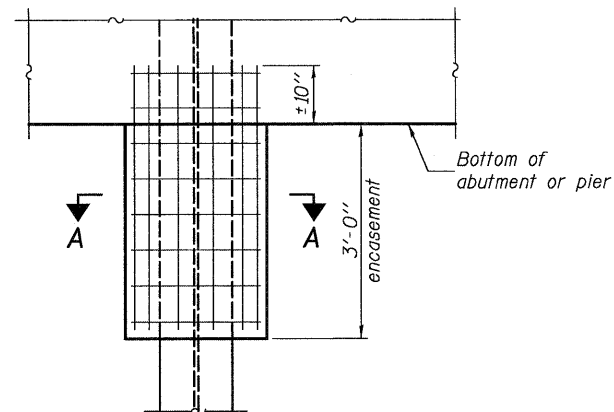


DETAIL "B"

WELDED COMMERCIAL SPLICE

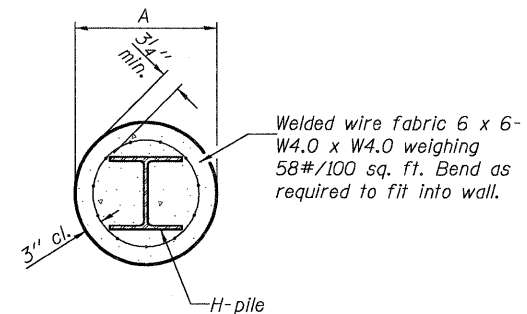


ISOMETRIC VIEW



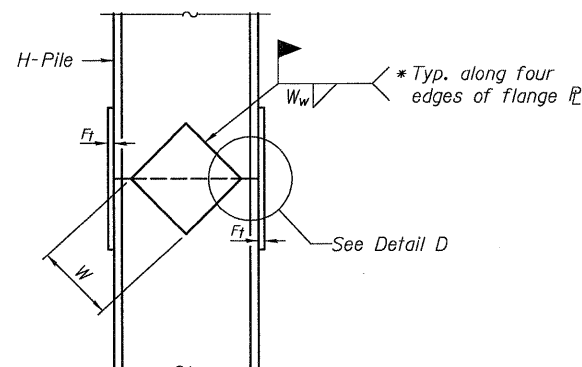
ELEVATION

PILE ENCASEMENT

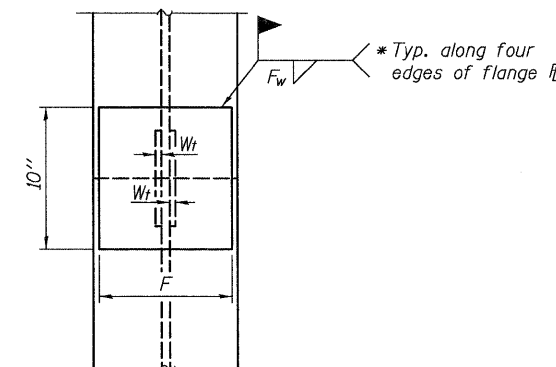


SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

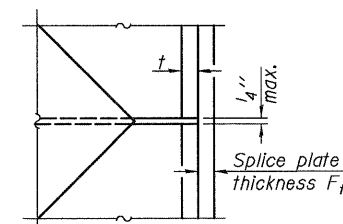


ELEVATION



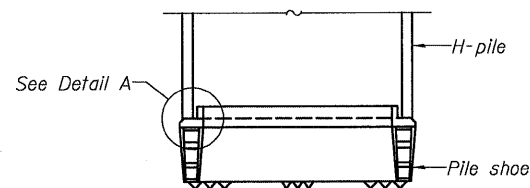
END VIEW

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"

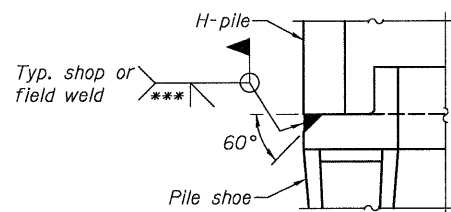


DETAIL D

WELDED PLATE FIELD SPLICE

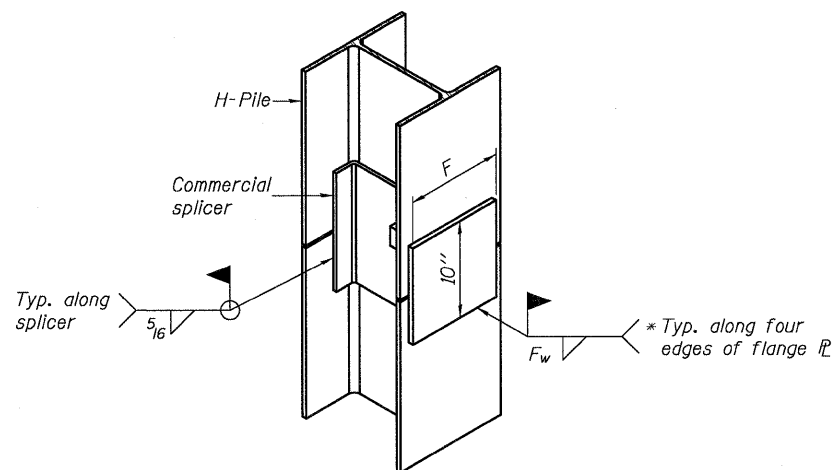


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



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.
- *** Weld size per pile shoe manufacturer (5/16" min.).

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

F-HP

7-1-10

FILE NAME = h:\5789\13_p1e5789.dgn	USER NAME = USERDESCR.	DESIGNED - B.I.B.	REVISIONS -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HP PILE DETAILS	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1.0000' / IN.	CHECKED - L.D.G.	REVISIONS -			782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	13	
	PLOT DATE = 4/12/2011	DRAWN - K.H.L.	REVISIONS -			S.N. 003-3052		CONTRACT NO. 97469		ILLINOIS FED. AID PROJECT	
		CHECKED - B.G.H.	REVISIONS -			SHEET NO. 7 OF 8 SHEETS					

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax Page 1 of 1

Bridge Foundation Boring Log

Project: H-08225 Bridge: Keysport Rd over Trib. to Carlyle Lake Date: 2/12/09
Section: 08-00220-00-BR Station: Bored by: D. Russell
Structure: 003-3019 Checked By: J. Holcomb
County: Bond

Boring No: 1
Station: _____
Offset: _____

Elevation	N	Qu tsf	w	Surface Water Elev.		Elevation	N	Qu tsf	w
				During Drilling	Upon Completion				
460.6	0					441.6			
459.6									
436.6	7	2.45	23				9	0.48	20
434.1									
431.6	4	0.58	27				25	3.35	15
454.1									
431.6	4	0.65	23				100		3
							100		5
	2	0.58	28						
426.6							100		6
	5	2.08	24						
	5	1.48	26						
	4	1.08	24						
441.5									
	4	1.18	20						
	12	2.28	15						

Ground Surface 460.6 0
3" A-3 Surface over 4" Crushed Stone 459.6
Gray Silty CLAY (CL) with sand
Gray Mottled Brown Sandy CLAY (A-6)
Gray SHALE
Gray Weathered LIMESTONE
End of Boring @ -34.0'
Brown Mottled Gray Sandy CLAY (A-6)

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax Page 1 of 1

Bridge Foundation Boring Log

Project: H-08225 Bridge: Keysport Rd over Trib. to Carlyle Lake Date: 2/12/09
Section: 08-00220-00-BR Station: Bored by: D. Russell
Structure: 003-3019 Checked By: J. Holcomb
County: Bond

Boring No: 2
Station: _____
Offset: _____

Elevation	N	Qu tsf	w	Surface Water Elev.		Elevation	N	Qu tsf	w
				During Drilling	Upon Completion				
460.5	0					441.5			
459.5									
436.5	8	3.95	14				2	0.68	15
434.0									
456.5									
434.0	4	0.98	26				27		7
454.0							100		3
431.5							75		
454.0	2	0.68	23				100		10
							100		
	5	1.18	24						
449.0							100		25
	5	1.75	24						
	3	0.98	27						
444.0									
	5	0.85	28						
441.5									
	7		15						
	5	1.45	13						

Ground Surface 460.5 0
3" A-3 Surface over 4" Crushed Stone 459.5
Brown Mottled Gray Sandy CLAY (A-6)
Brown Sandy CLAY (A-6)
Gray SHALE
Gray Weathered LIMESTONE
Gray Mottled Brown Sandy CLAY (A-6)
Gray CLAY (A-6) with sand
End of Boring @ -34.0'
Gray Mottled Brown CLAY (A-6) with sand
Brown Mottled Gray Clayey SAND (A-2-4)

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

FILE NAME =	USER NAME = .USERDESCR.
h:\5789\14.brng5789.dgn	
PLOT SCALE = 1.0000 / / IN.	
PLOT DATE = 4/12/2011	

DESIGNED - B.I.B.	REVISED -
CHECKED - L.D.G.	REVISED -
DRAWN - K.H.L.	REVISED -
CHECKED - B.G.H.	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

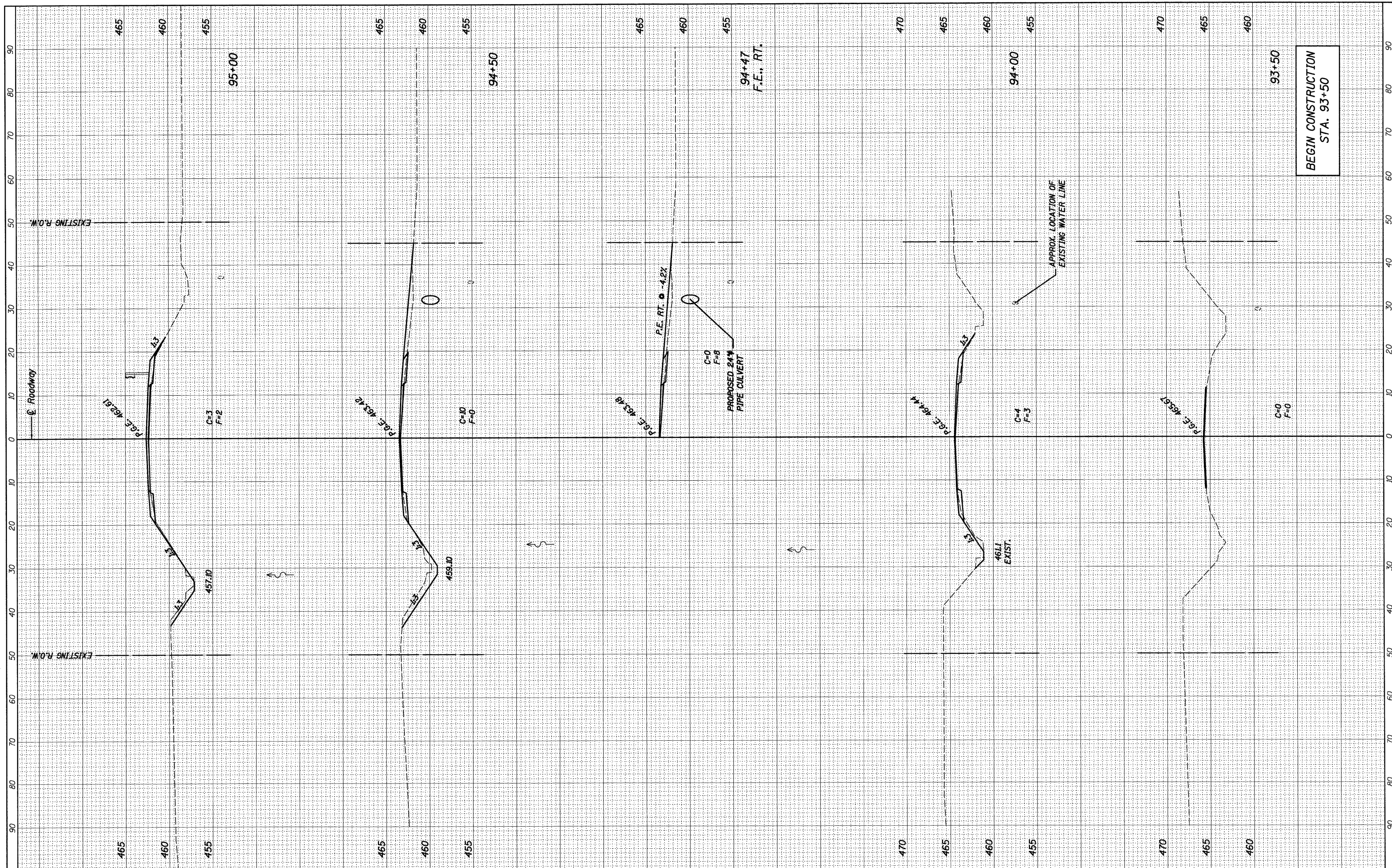
SOIL BORING LOGS

SHEET NO. 8 OF 8 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	14
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TEMPLATE	BY
AREAS CHECKED	AREAS CHECKED	

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	TEMPLATE	BY
AREAS CHECKED	AREAS CHECKED	



BEGIN CONSTRUCTION
STA. 93+50

FILE NAME = h:\5789\5789.dgn
USER NAME = USERDESCR...

DESIGNED - B.I.B.
DRAWN - K.H.L.
CHECKED - L.D.G.
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

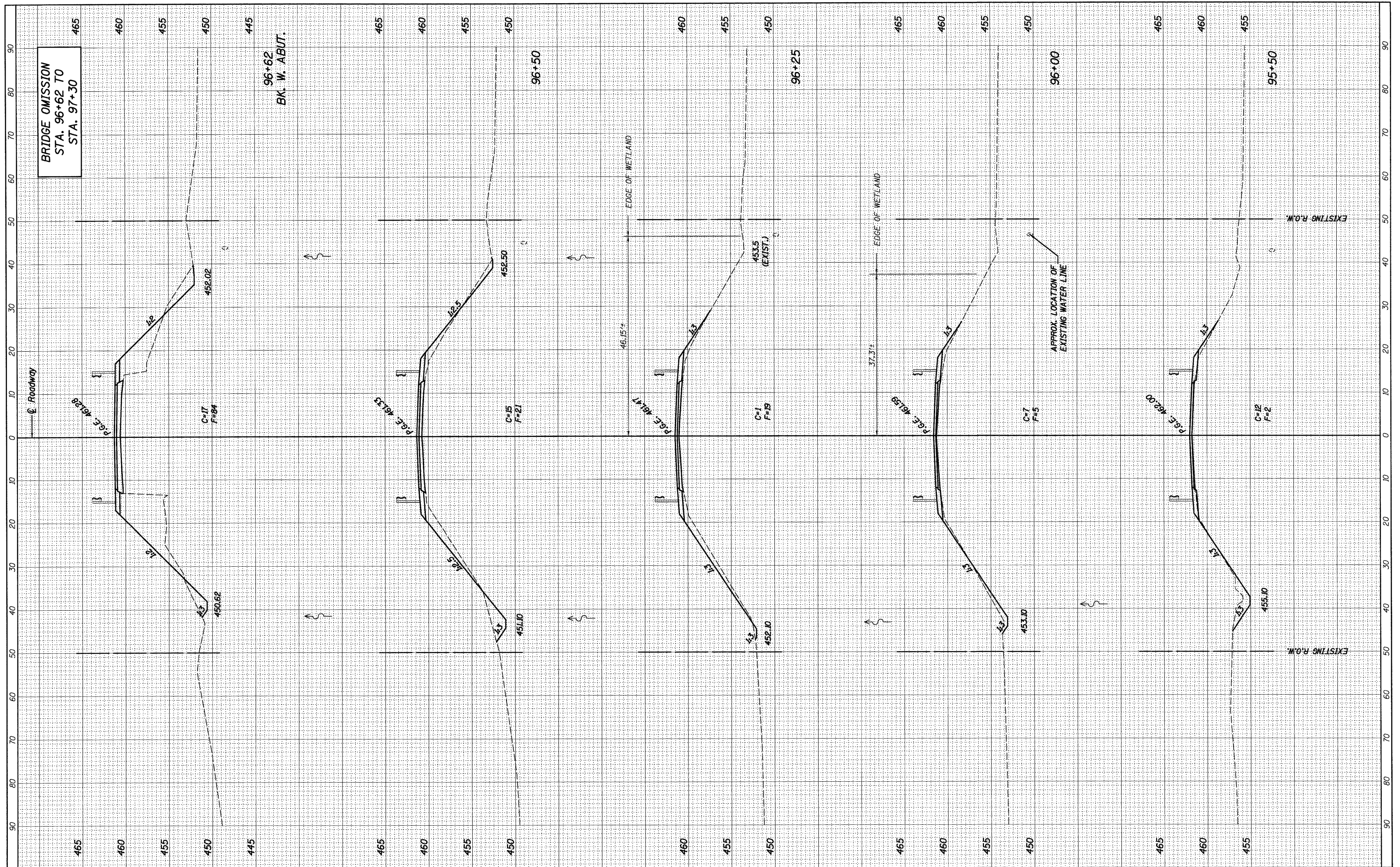
CROSS SECTIONS
EXISTING & PROPOSED ROADWAY
SCALE: SHEET NO. 1 OF 5 SHEETS STA. 93+50 TO STA. 95+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	15
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

HMG NO. 5789

FINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPERATURE	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	BY
PLANNED	
TEMPERATURE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = h:\5789\1519_XS&M_5789.dgn
 USER NAME = USERDESCR.
 DESIGNED - B.I.B.
 DRAWN - K.H.L.
 CHECKED - L.D.G.
 DATE - 4/12/2011
 PLOT SCALE = 10,000' / IN.
 PLOT DATE = 4/12/2011

DESIGNED	B.I.B.	REVISED	-
DRAWN	K.H.L.	REVISED	-
CHECKED	L.D.G.	REVISED	-
DATE		REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

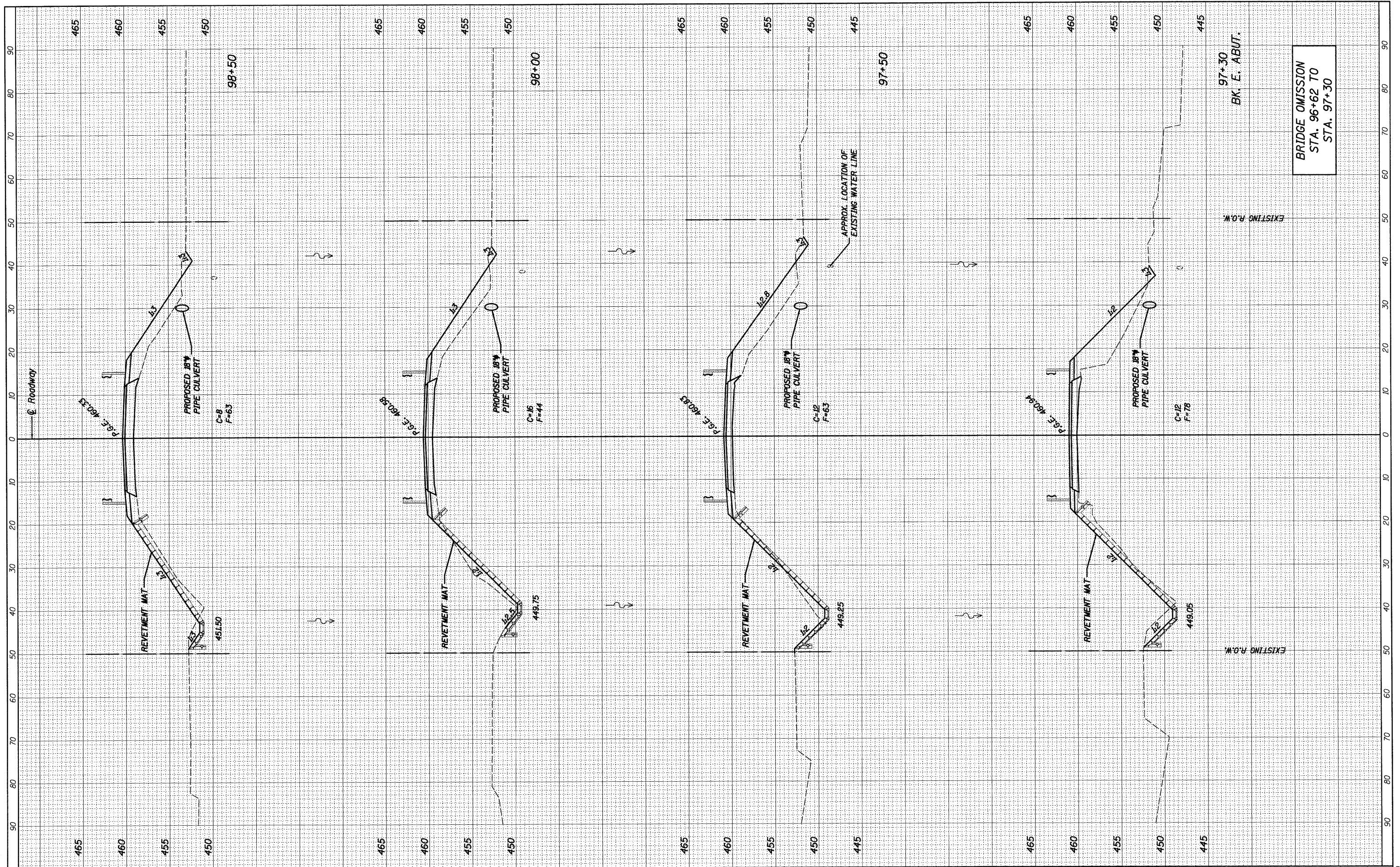
**CROSS SECTIONS
EXISTING & PROPOSED ROADWAY**

SCALE: SHEET NO. 2 OF 5 SHEETS STA. 95+50 TO STA. 96+62

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	16
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

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

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



BRIDGE OMISSION
STA. 96+62 TO
STA. 97+30

FILE NAME = h:\5789\5789_X5sh_5789.dgn
USER NAME = USERDESCR_

DESIGNED - B.I.B.
DRAWN - K.H.L.
CHECKED - L.D.G.
DATE - 4/12/2011

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

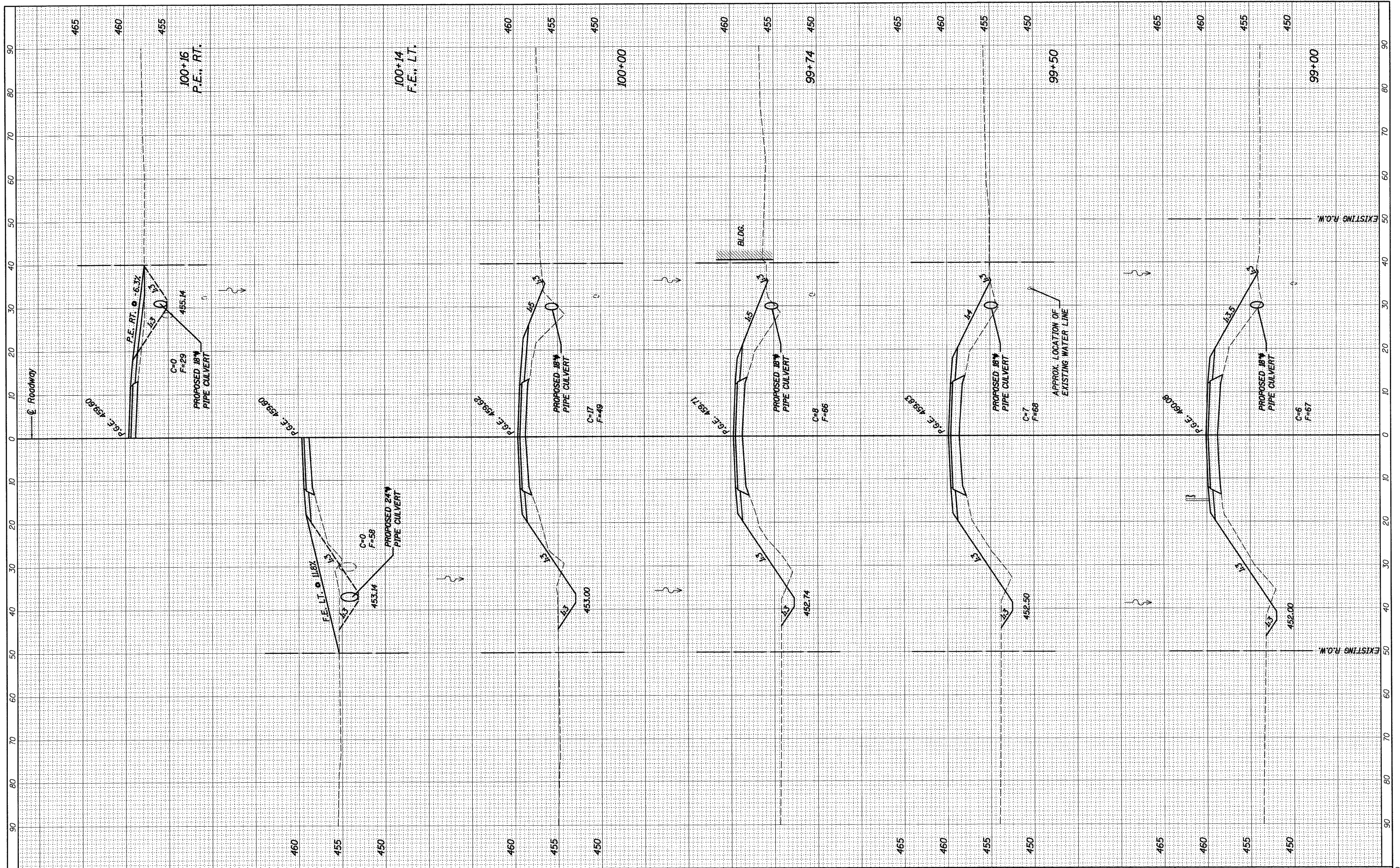
CROSS SECTIONS
EXISTING & PROPOSED ROADWAY
SCALE: SHEET NO. 3 OF 5 SHEETS STA. 97+30 TO STA. 98+50

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	17
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

HMG INC. 5789

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLotted		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLotted		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



FILE NAME = h:\5789\1519_xs\nt_5789.dgn
 USER NAME = USERDESCR.
 PLOT SCALE = 10,0000' / IN.
 PLOT DATE = 4/12/2011

DESIGNED - B.I.B.
 DRAWN - K.H.L.
 CHECKED - L.D.G.
 DATE

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 EXISTING & PROPOSED ROADWAY

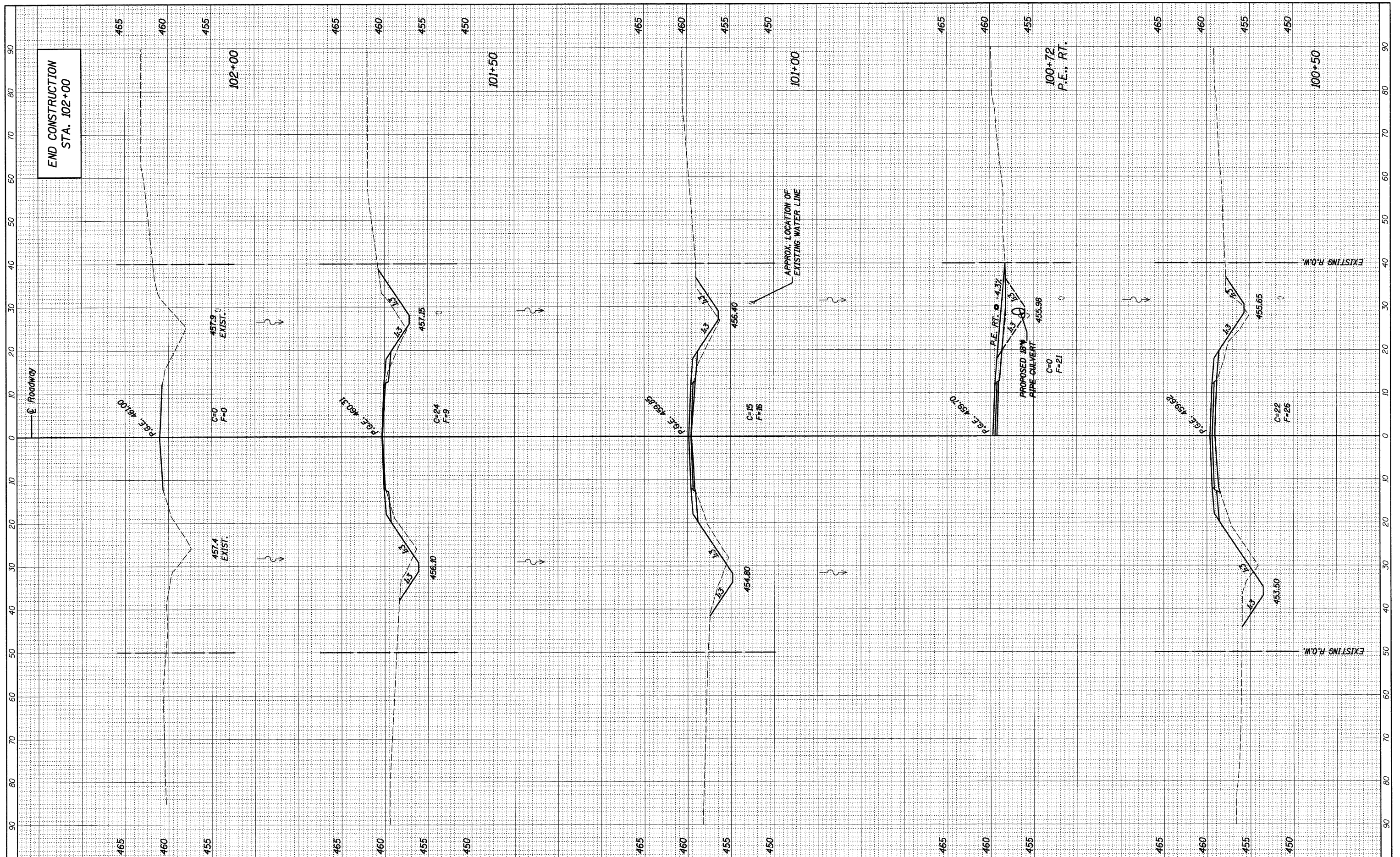
SCALE: SHEET NO. 4 OF 5 SHEETS STA. 99+00 TO STA. 100+16

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	18
S.N. 003-3052		CONTRACT NO. 97469		
ILLINOIS FED. AID PROJECT				

H&M NO. 5789

FINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK	NO.	
AREAS CHECKED		

ORIGINAL	SURVEYED	DATE
SURVEY	BY	
NOTE BOOK	NO.	
AREAS CHECKED		



FILE NAME = h:\5789\1519_X5shf_5789.dgn
 USER NAME = USERDESCR...
 PLOT SCALE = 10,000' / IN.
 PLOT DATE = 4/12/2011

DESIGNED - B.I.B.
 DRAWN - K.H.L.
 CHECKED - L.D.G.
 DATE -

REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 EXISTING & PROPOSED ROADWAY

SCALE: SHEET NO. 5 OF 5 SHEETS STA. 100+50 TO STA. 102+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
782	07-00084-00-BR/07-00088-00-BR	BOND/CLINTON	19	19
S.N. 003-3052			CONTRACT NO. 97469	
ILLINOIS FED. AID PROJECT				