

CONTRACT NO. 85431				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR0683E	04-09116-00-BR	WINNEBAGO	15	1

INDEX OF SHEETS

1. COVER SHEET
2. SUMMARY OF QUANTITIES, GENERAL NOTES, TYPICAL SECTION
3. ROADWAY PLAN AND PROFILE
4. GENERAL PLAN AND ELEVATION
5. P.P.C. DECK BEAM SUPERSTRUCTURE
6. P.P.C. DECK BEAM DETAILS
7. P.P.C. DECK BEAM PILE BENT ABUTMENT
8. P.P.C. DECK BEAM PILE BENT PIER
9. STEEL BRIDGE RAIL, TYPE SM
10. NAME PLATE
11. PILE DETAILS
12. & 13. CROSS SECTIONS
14. WALL ELEVATIONS
15. STANDARDS AND DETAILS
 - 10.2 INLET SPECIAL
 - 13.2 FRAME AND GRATE FOR INLET SPECIAL

STANDARDS

- B.L.R. 22-5 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
- 602401-01 MANHOLE, TYPE A
 - 604001-02 FRAME AND LID
 - 701901 TRAFFIC CONTROL DEVICES
 - 780001-01 TYPICAL PAVEMENT MARKINGS
 - 720011 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
 - 728001 TELESCOPING STEEL SIGN SUPPORT
 - 729001 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)

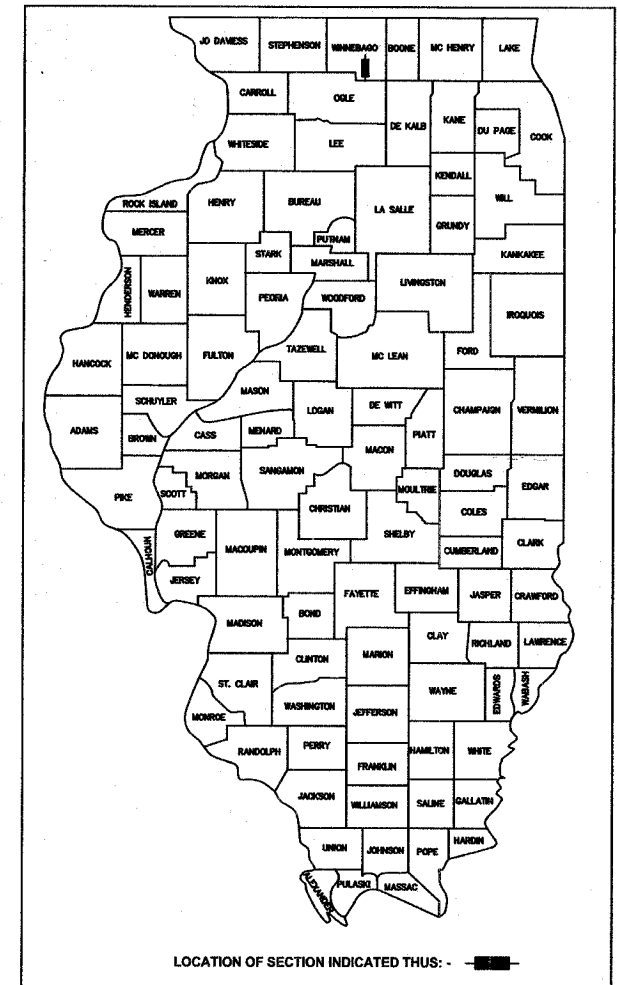
UTILITY CONTACTS

- GAS:**
NICOR
CONSTANCE LANE
UTILITY CONSULTANT
1844 FERRY ROAD
NAPERVILLE, ILLINOIS 60563-9600
PHONE: (630) 388-3830
FAX: (630) 983-4028
- ELECTRIC:**
COMED
MIKE LENOX
123 ENERGY AVENUE
ROCKFORD, ILLINOIS 61109
(815) 490-2869
- CABLE TV:**
COMCAST
MICHAEL OWENS
4450 KISHWAUKEE STREET
ROCKFORD, ILLINOIS 61109
- TELEPHONE:**
ATT
STEVE STULL
2404 8th AVENUE
ROCKFORD, ILLINOIS 61108
(815) 394-7276
- WATER:**
CITY OF ROCKFORD
MARCY LEACH
425 E. STATE STREET
ROCKFORD, ILLINOIS 61104
(815) 967-6740
- SEWER:**
ROCK RIVER WATER RECLAMATION DISTRICT
MICHAEL OLSON, P.E.
3333 KISHWAUKEE STREET
P.O. BOX 7480
ROCKFORD, ILLINOIS 61126-7480
(815) 387-7660

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
TOWNSHIP BRIDGE PROGRAM
BROOKVIEW ROAD BRIDGE
FEDERAL-AID BRRP PROJECT**

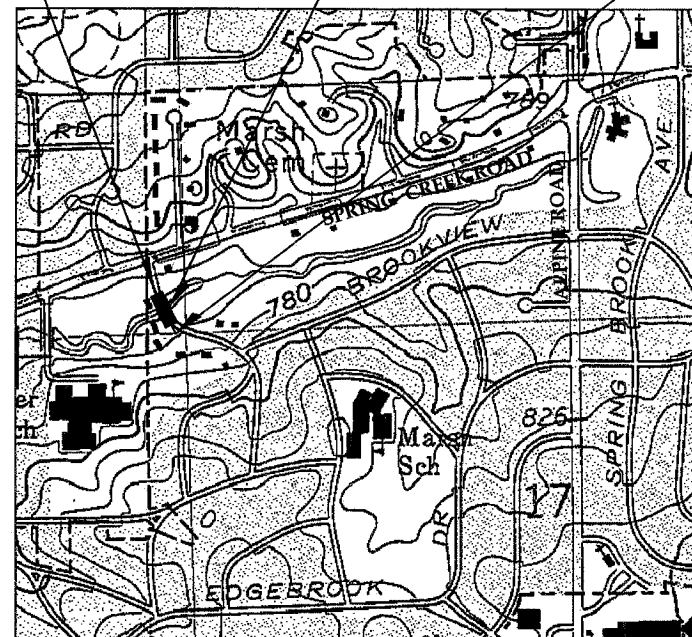
TR 683 (BROOKVIEW ROAD)
SECTION 04-09116-00-BR
PROJECT NO BROS - 201 (25)
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
JOB NO. C - 92 - 063 - 08



IMPROVEMENT BEGINS STATION 12+36.00

PROJECT LOCATION

IMPROVEMENT ENDS STATION 14+02.00



LOCATION PLAN
PROJECT LENGTH : 166.0 FT (0.031 MI.)

EXISTING STRUCTURE:

S.N. 101-3061; Built in 1950; three span bridge that is 46 ft long with steel beam spans varying from 13.1 ft to 14.6 ft long with two 12-inch thick concrete piers. The reinforced concrete deck with bituminous overlay is 24.2 feet wide with sub-standard steel railings. The steel beams are supported at the structure limits by limestone abutments with concrete caps.

PROPOSED IMPROVEMENT:

SN 101-3096;
The proposed structure is a two span precast prestressed concrete deck beam (11") bridge on closed pile bent abutments. The proposed cross section is 30' - 4" out-to-out of deck and face-to-face of bridge rail. The proposed total length is 50' - 7" back-to-back of abutments.



J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123

CONTRACT NO. 85431

BROOKVIEW ROAD FUNCTIONAL CLASSIFICATION : URBAN TWO-LANE LOCAL ROAD ADT = 550 (2004); 1% TRUCKS



ALI A. GHARAMTI, P.E., S.E. DATE
IL REGISTRATION #062-046049
EXPIRATION DATE 11/30/09

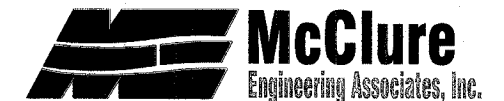
AGENCY RESPONSIBLE FOR LETTING

Approved MARCH 6, 2008 (date)
Scott A. Vennart
Local Agency Position *County Engineer*

Passed APRIL 1, 2008 (date)
John J. Johnson
District 2 Engineer of Local Roads & Street

Releasing for Bid Based on Limited Review APRIL 1, 2008 (date)
George F. Rynne
Deputy Director of Highways, Region 2 Engineer

PLAN & PROFILE SCALES 1" = 20' HORIZ. 1" = 5' VER.
CROSS SECTION SCALES 1" = 5' HORIZ. 1" = 5' VER.



7282 Argus Drive Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

SUMMARY OF QUANTITIES
CONSTRUCTION TYPE CODE: X080 - 2A

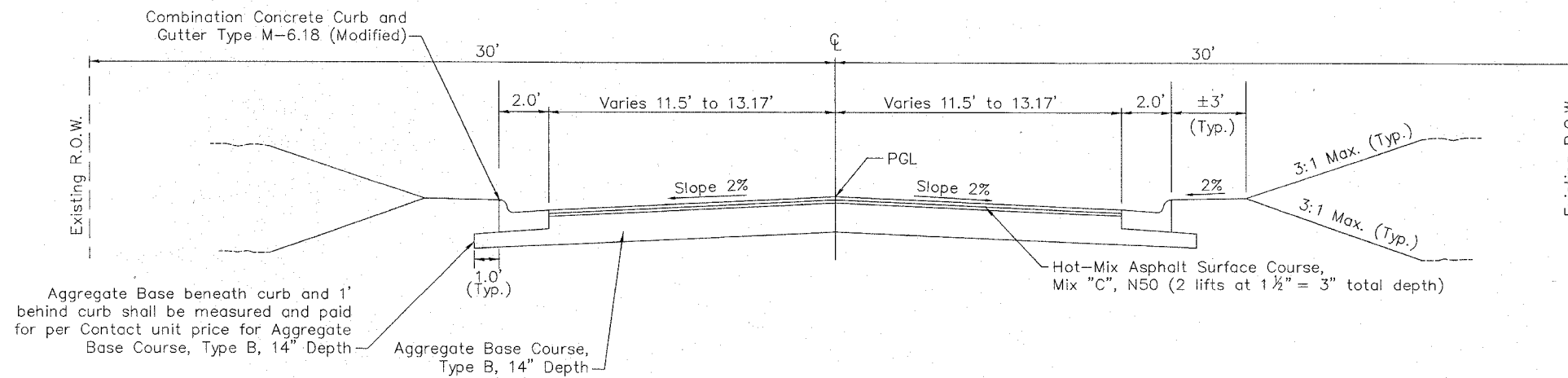
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 0683E	04-09116-00-BR	WINNEBAGO	15	2
		ILLINOIS	FED. AID PROJECT	

CODED PAY ITEM NO.	ITEM DESCRIPTION	UNIT	QUANTITY
20100110	TREE REMOVAL (6 - 15 UNITS DIAMETER)	UNIT	48
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	102
20200100	EARTH EXCAVATION	CU YD	710
20700220	POROUS GRANULAR EMBANKMENT	CU YD	71
20800150	TRENCH BACKFILL	CU YD	15
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	450
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	9
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	9
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	9
25200100	SODDING	SQ YD	450
25200200	SUPPLEMENTAL WATERING	UNIT	21
28100109	STONE RIPRAP, CLASS A5	SQ YD	315
28200200	FILTER FABRIC	SQ YD	520
28400100	GABIONS	CU YD	125
35102000	AGGREGATE BASE COURSE, TYPE B, 8"	SQ YD	70
35102600	AGGREGATE BASE COURSE, TYPE B, 14"	SQ YD	375
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GAL.	150
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	93
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	10
44000100	PAVEMENT REMOVAL	SQ YD	366
* 44213200	SAWCUT	FOOT	90
50100100	REMOVAL OF EXISTING STRUCTURE	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	210
50300225	CONCRETE STRUCTURES	CU YD	74
50300280	CONCRETE ENCASEMENT	CU YD	4.4
50400205	PRECAST PRESTRESSED CONCRETE DECK BEAMS (11" DEPTH)	SQ FT	1484
50800105	REINFORCEMENT BARS	POUND	8131
50901050	STEEL RAILING, TYPE SM	FOOT	98
51201005	FURNISHING METAL SHELL PILES, 12"	FOOT	523
51202305	DRIVING PILES	FOOT	523
51203200	TEST PILE METAL SHELLS	EACH	2
51500100	NAME PLATES	EACH	1
550A0050	STORM SEWER, CLASS A, TYPE 1, 12"	FOOT	28
550A0070	STORM SEWER, CLASS A, TYPE 1, 15"	FOOT	15
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	16.5
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	294
* 60240100	INLETS, TYPE A, SPECIAL W/SPECIAL FRAME & GRATE	EACH	1
* 60242400	INLETS, SPECIAL	EACH	2
60500060	REMOVING INLETS	EACH	2
* 60610100	COMBINATION CONC CURB & GUTTER, TYPE M-6.18(MOD.)	FOOT	230
67100100	MOBILIZATION	L.S.	1
* 70101700	TRAFFIC CONTROL AND PROTECTION	L.S.	1
Δ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	142
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* XX003952	TEMPORARY EROSION CONTROL COMPLETE	L.S.	1
* X5510100	STORM SEWER REMOVAL	FOOT	59
* Z0013798	CONSTRUCTION LAYOUT	L.S.	1

GENERAL NOTES

- The contractor shall be required to topsoil and sod all areas disturbed by all construction activities, to the satisfaction of the engineer. This work shall be performed according to the applicable portions of sections 211 and 252 of the Standard specifications. The final top four inches of soil in any area disturbed by the contractor must be a cohesive soil capable of supporting vegetation. All material and labor required to complete this work shall be paid for at the Contract Unit Price for the appropriate item.
- Clearing of existing saplings, brush, etc. required in order to construct abutments, piers, gabions and riprap slopes, shall be performed in accordance with section 201 of the standard specifications and shall not be paid for separately, but shall be included with the cost of Earth Excavation. Removal of trees as shown on the plans shall be paid for at the Contract Unit Price for Tree Removal of the size specified. Contractor shall coordinate all tree removal activities with the Engineer prior to starting construction. Refer to Tree Removal note on plan and profile sheet.
- The Contractor shall carefully protect and be responsible for all trees and shrubs directly adjacent to the construction limits. Other private property shall be similarly protected. Contractor shall remove and replace the existing mailbox near the southwest corner of the existing structure. Contractor shall provide a temporary mailbox if the relocated box will be removed for any period of time greater than one (1) day. This work will not be paid for separately but should be included in the Cost of Earth Excavation.
- The work included on these plans shall reference the Standard Specifications for Road and Bridge Construction adopted January 1, 2007 and the latest Supplemental Specifications and Recurring Special Provisions.
- All debris resulting from construction operations shall be properly disposed of off-site. Removal and disposal of unsalvageable material shall conform to the requirements of section 202.03. The existing bridge railing, approach railing and signs shall be removed in accordance with the plans and specifications. The Contractor shall store signs and reinstall as directed by the Engineer. This work shall be included in the cost of Structure Removal with no additional compensation.
- A nationwide 404 permit has been issued for this project, and the conditions of the permit must be adhered to. See special provisions.
- Backfill shall be placed behind the abutments in accordance with article 502.10 of the standard specifications. The abutment backfill material shall be in accordance with section 207 and shall be measured and paid for at the Contract Unit Price for Porous Granular Embankment.
- All exposed concrete edges shall have a 1" chamfer, unless noted otherwise. Chamfer on the vertical edges shall be continued a minimum of one foot below finished ground level. Exposed concrete shall be given a normal finish which shall be included with the cost per cubic yard for Concrete Structures.
- The locations of existing water main, gas main, sewers, electric power lines, telephone lines and other utilities as shown on the plans are based on the best information available, but they are not guaranteed. All utility locations shown are supplied by the utility companies. It is the contractor's responsibility to ascertain their exact location from the utility companies, and by field inspection. It shall be the responsibility of the Contractor to protect all existing utilities.
- Final gabions locations may be varied in the field to suit ground conditions or as directed by the Engineer.
- Excavation required for the construction of the gabion walls, sediment removal at structure limits, and riprap placement will not be paid for separately, but shall be included in the Contract Unit Price for Earth Excavation. Also, pavement removal and excavation of the existing residential drives as shown on the plans shall not be paid for separately but shall be included with Earth Excavation.
- Contractor shall provide positive drainage at all times within the construction area.
- Erosion control features as needed shall be incorporated into the construction at the earliest possible time to limit erosion and stream pollution and shall be maintained until acceptance of the project. This work shall be included in the Contract Unit Price for Temporary Erosion Control Complete.
- The Contractor shall notify the Engineer immediately if any discrepancies are encountered between the plans and specifications and the existing field conditions.
- All materials, labor, and equipment required to furnish and install the PPC deck beams including the cost of furnishing and installing the dowels, bearing pads and associated items, as shown on the plans shall be included in the Contract Unit Price of Precast, Prestressed Concrete Deck Beams (11" depth).
- The Contractor shall carefully preserve all existing property markers until referenced by a Licensed Professional Land Surveyor. Property markers damaged by the Contractor shall be replaced at the expense of the Contractor at no additional expense to the Contract.
- The existing roadway pavement to be removed consists of approximately 2 inches of asphalt thickness overlaying 11 inches of concrete with integral curbing. The removal of these items will not be paid for separately but shall be measured by the square yard and paid for at the Contract Unit Price for Pavement Removal.

* See special provisions
Δ Specialty Items



TYPICAL SECTION

SUMMARY OF QUANTITIES,
GENERAL NOTES, TYPICAL SECTION

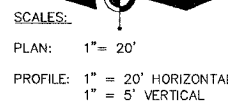
BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR
STATION 13+12
STRUCTURE NO. 101-3096

Mixture Uses(s):	Surface
PG:	PG 58-22
Design Air Voids	3.0 @ N50
Mixture Composition (Gradation Mixture)	IL 9.5 or 12.5
Friction Aggregate	C
20 Year ESAL	0.02
Mix Unit Weight	112 lbs/sy/in

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 0683E	04-0911B -00-BR	WINNEBAGO	15	3
ILLINOIS		FED. AID PROJECT		

CURVE NO. 2 DATA

$\Delta = 68^{\circ}20'35''$
 $D = 25^{\circ}08'25''$
 $T = 154.71'$
 $L = 271.84'$
 $E = 39.35'$
 $R = 227.90'$
 S.E. = NORMAL CROWN
 P.C.C. = Sta. 12+85.26
 P.T. = Sta. 15+57.10
 P.I. = Sta. 14+39.98

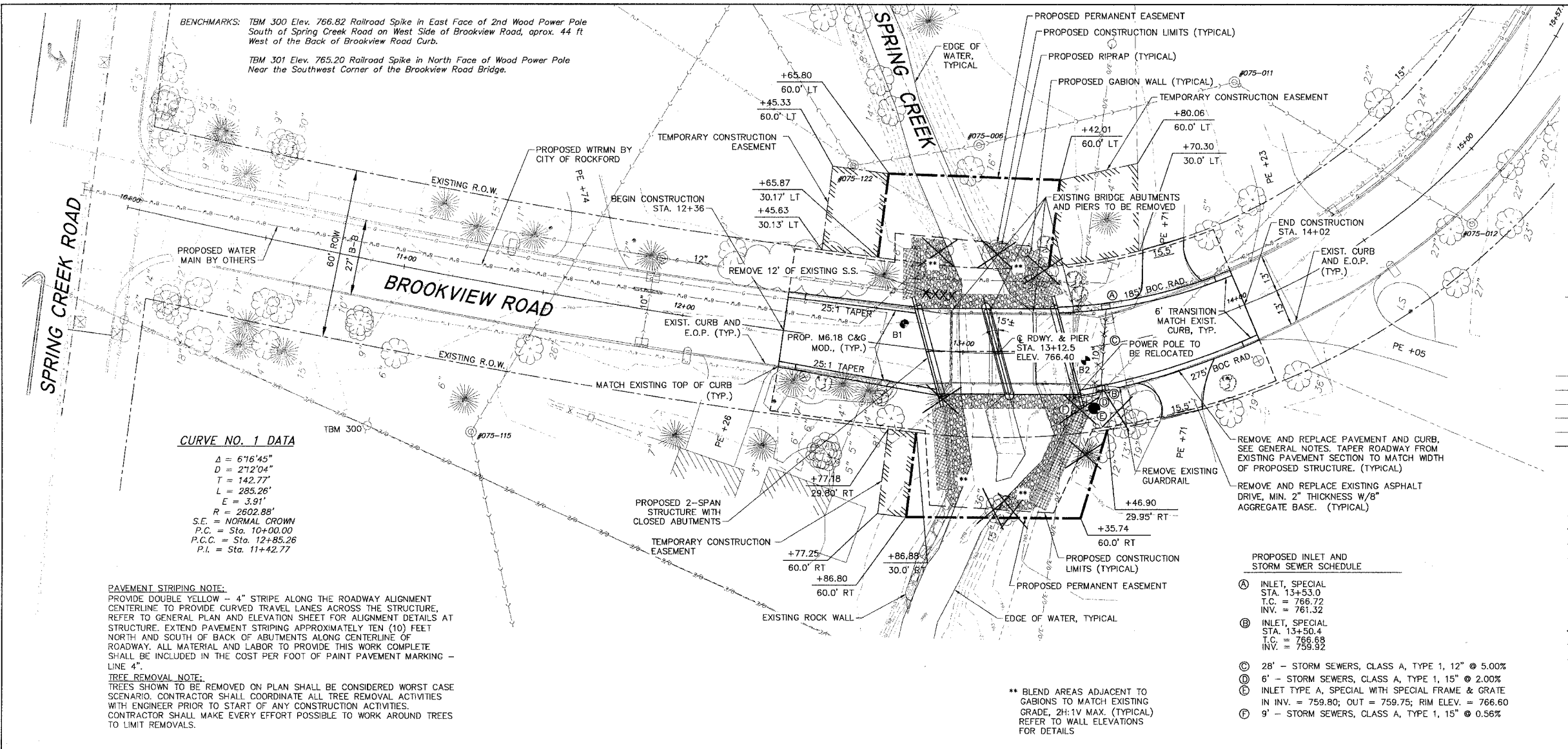


LEGEND

- DECIDUOUS TREE
- EVERGREEN TREE
- UTILITY POLE
- POLE TO BE RELOCATED BY OTHERS
- EXISTING CABLE TELEVISION LINE
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING GAS MAIN
- EXISTING UNDERGROUND TELEPHONE LINE
- EXISTING WATER MAIN
- PROPOSED WATER MAIN
- EXISTING VALVE AND VAULT
- EXISTING FIRE HYDRANT ASSEMBLY
- EXISTING MANHOLE
- EXISTING STORM SEWER
- PROPOSED STORM SEWER
- EXISTING SANITARY SEWER
- EXISTING INLET TYPE 700
- PROPOSED INLET IDOT D2 SPECIAL
- PROPOSED STRUCTURE
- STRUCTURE NUMBER
- ITEM TO BE REMOVED
- PROPERTY LINE
- EASEMENT LINE
- CENTER LINE
- EXISTING CONTOUR LINE 1 FOOT INTERVAL
- EXISTING CONTOUR LINE 5 FOOT INTERVAL
- EXISTING MAILBOX
- PROPOSED GABION WALL
- PROPOSED RIPRAP

BENCHMARKS: TBM 300 Elev. 766.82 Railroad Spike in East Face of 2nd Wood Power Pole South of Spring Creek Road on West Side of Brookview Road, approx. 44 ft West of the Back of Brookview Road Curb.

TBM 301 Elev. 765.20 Railroad Spike in North Face of Wood Power Pole Near the Southwest Corner of the Brookview Road Bridge.



CURVE NO. 1 DATA

$\Delta = 6^{\circ}16'45''$
 $D = 2^{\circ}12'04''$
 $T = 142.77'$
 $L = 285.26'$
 $E = 3.91'$
 $R = 2602.88'$
 S.E. = NORMAL CROWN
 P.C. = Sta. 10+00.00
 P.C.C. = Sta. 12+85.26
 P.I. = Sta. 11+42.77

PAVEMENT STRIPING NOTE:

PROVIDE DOUBLE YELLOW - 4" STRIPE ALONG THE ROADWAY ALIGNMENT CENTERLINE TO PROVIDE CURVED TRAVEL LANES ACROSS THE STRUCTURE. REFER TO GENERAL PLAN AND ELEVATION SHEET FOR ALIGNMENT DETAILS AT STRUCTURE. EXTEND PAVEMENT STRIPING APPROXIMATELY TEN (10) FEET NORTH AND SOUTH OF BACK OF ABUTMENTS ALONG CENTERLINE OF ROADWAY. ALL MATERIAL AND LABOR TO PROVIDE THIS WORK COMPLETE SHALL BE INCLUDED IN THE COST PER FOOT OF PAINT PAVEMENT MARKING - LINE 4".

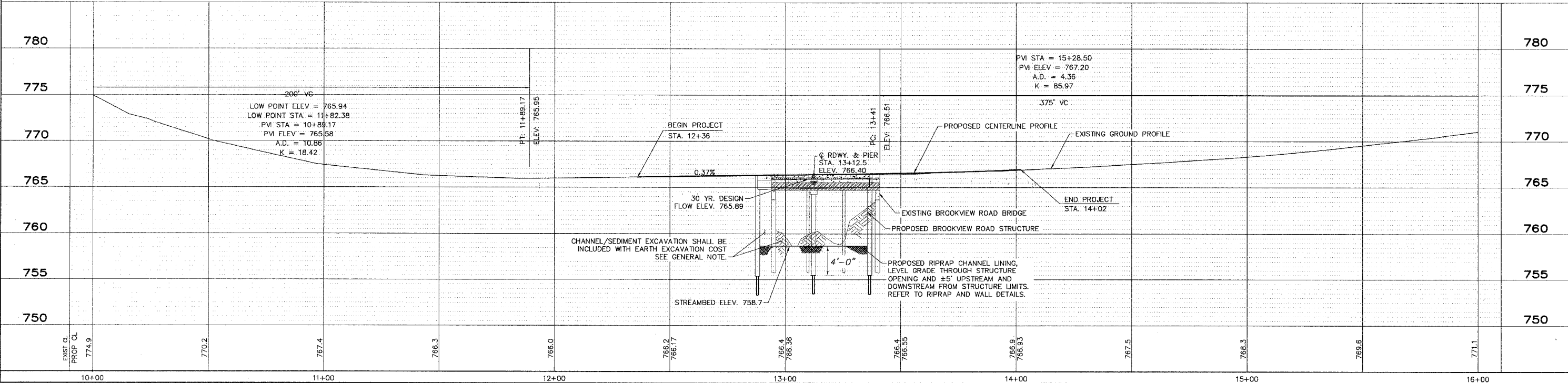
TREE REMOVAL NOTE:

TREES SHOWN TO BE REMOVED ON PLAN SHALL BE CONSIDERED WORST CASE SCENARIO. CONTRACTOR SHALL COORDINATE ALL TREE REMOVAL ACTIVITIES WITH ENGINEER PRIOR TO START OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL MAKE EVERY EFFORT POSSIBLE TO WORK AROUND TREES TO LIMIT REMOVALS.

PROPOSED INLET AND STORM SEWER SCHEDULE

- (A) INLET, SPECIAL STA. 13+53.0 T.C. = 766.72 INV. = 761.32
- (B) INLET, SPECIAL STA. 13+50.4 T.C. = 766.68 INV. = 759.92
- (C) 28" - STORM SEWERS, CLASS A, TYPE 1, 12" @ 5.00%
- (D) 6" - STORM SEWERS, CLASS A, TYPE 1, 15" @ 2.00%
- (E) INLET TYPE A, SPECIAL WITH SPECIAL FRAME & GRATE IN INV. = 759.80; OUT = 759.75; RM ELEV. = 766.80
- (F) 9" - STORM SEWERS, CLASS A, TYPE 1, 15" @ 0.56%

** BLEND AREAS ADJACENT TO GABIONS TO MATCH EXISTING GRADE, 2H:1V MAX. (TYPICAL) REFER TO WALL ELEVATIONS FOR DETAILS



EXIST. CL	770.2	767.4	766.3	766.0	766.2	766.17	766.4	766.36	766.4	766.9	767.5	766.3	766.6	771.1
PROP. CL	774.9													
	10+00	11+00		12+00		13+00		14+00		15+00		16+00		

REVISIONS

NO.	ITEM	DATE
1	IDOT Submittal	March 2007
2	revised alignment, added easements	December 2007
3	IDOT Review Comments	March 2008

SCALE: 1" = 20'
 DRAWN BY: CTB
 CHECKED BY:
 DATE: MARCH 2008

McClure
 Engineering Associates, Inc.
 7282 Argus Drive Rockford, Illinois 61107-5837
 (815) 398-2332 FAX (815) 398-2496
 Design Firm License: Illinois 184-000816
 Copyright 2008 By McClure Engineering Associates, Inc.

PLAN & PROFILE - BROOKVIEW ROAD
 BROOKVIEW ROAD STRUCTURE
 BROOKVIEW ROAD/SPRING CREEK ROCKFORD, ILLINOIS
 FILE: G:\04-059 BROOKVIEW SPV\DESIGN\DRAWINGS\PLAN & PROFILE.DWG JOB: 04-30-04-059

SHEET NO. 3 OF 15

BENCHMARKS:

B.M.- No. 300, Railroad Spike in East Face of 2nd Wood Power Pole South of Spring Creek Road on West Side of Brookview Road, approx. 44ft West of Back of Curb Elev. = 766.82'

B.M.- No. 301, Railroad Spike in North Face of Wood Power Pole Near the Southwest Corner of Brookview Bridge Elev. = 765.20'

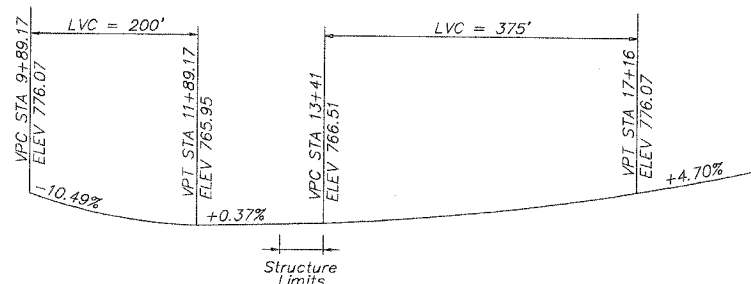
EXISTING STRUCTURE: S.N. 101-3061; Built in 1950, three span bridge that is 46 ft. long with steel beam spans varying from 13.1 ft. to 14.6 ft. long with two 12 inch thick concrete piers. The reinforced concrete deck with bituminous overlay is 24.2 ft. wide with sub-standard steel railings. The steel beams are supported at the structure limits by limestone abutments with concrete caps. Structure will be closed for demolition and construction.

Salvage- None

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
TR0603E	04-09116-00-BR	WINNEBAGO	15	4
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

- The Contractor shall drive 2 test piles, as specified, in permanent locations as directed by the Engineer before ordering the remaining piles. The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.
- The Metal Shell piles shall be according to ASTM A 252 Grade 3.
- See Special Provisions for boring logs.
- The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast, Prestressed Concrete Products. Corrosion Inhibitor, per Article 1020.05 (b)(12) of the Standard Specification, shall be used in the concrete for the precast, prestressed deck beams.



ROADWAY PROFILE GRADE

SCOPE OF WORK

Existing structure to be removed and replaced with a precast prestressed deck beam bridge supported by pile bent abutments and pier.

HIGHWAY CLASSIFICATION

Brookview Road
ADT: 550 (2004)
Functional Class: Local Road
Design Speed: 20 mph

DESIGN SPECIFICATIONS

2002 A.A.S.H.T.O. Standard Specifications - 17th ed.

LOADING HS20-44

Allow 25#/sq. ft. for future wearing surface.

SEISMIC DATA

Seismic Performance Category (SPC) = A
Bedrock Acceleration Coefficient (A) = 0.3, 25%
Site Coefficient (S) = 1.5

PILE DATA (PIER)

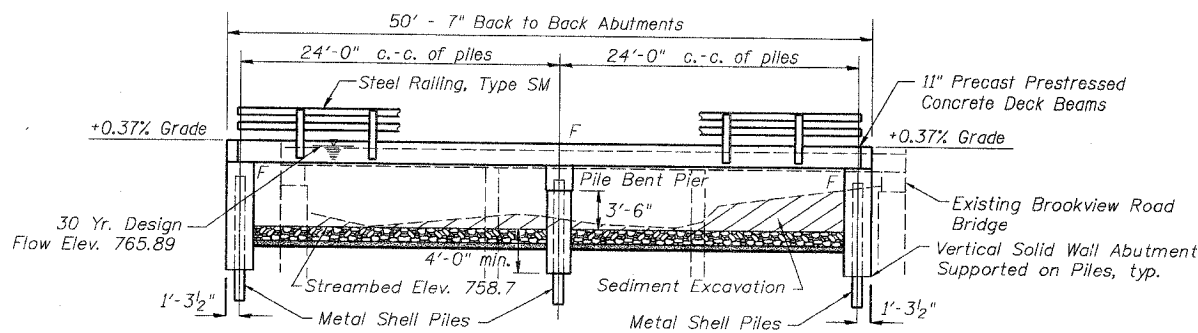
Type & Size: Metal Shell - 12 in. dia. x 0.179 in. Walls
Nominal Required Bearing: 204 kips
Allowable Resistance Available: 68 kips
Estimated Length: 38 Feet
Number Required: 6 (Includes 1 Test Pile)

PILE DATA (2- ABUTS.)

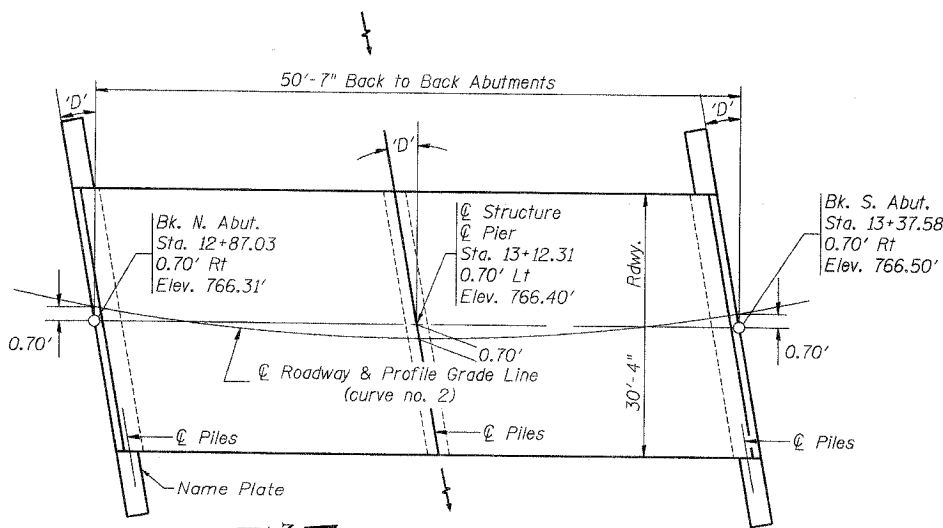
Type & Size: Metal Shell - 12 in. dia. x 0.179 in. Walls
Nominal Required Bearing: 192 kips
Allowable Resistance Available: 64 kips
Estimated Length: 37 Feet
Number Required: 10 (Includes 1 Test Pile located in South Abutment)

GENERAL NOTES

Soils information for final foundation design to be based on Geotechnical Engineering Report dated May 19, 2005 prepared by Terracon.



ELEVATION



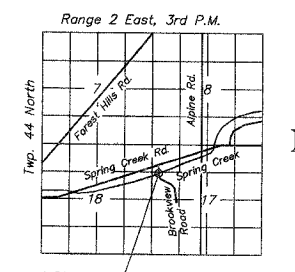
PLAN

Skew Angle 'D' = 15° Right Forward

CURVE NO. 2
P.I. STA. = 14+39.98
Δ = 68° 20' 35"
D = 25° 08' 25"
R = 227.90'
T = 154.71'
L = 271.84'
E = 39.35'
S.E. RUN = Normal Crown
P.C.C. STA = 12+85.26
P.T. STA = 15+57.10

BILL OF MATERIAL - BRIDGE

Item	Unit	Super	Sub.		Total
			Piers	Abuts.	
Removal of Existing Structures	Each				1
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	28.4			28.4
Waterproofing Membrane System	Sq. Yd.	165			165
Concrete Structures	Cu. Yd.		21.4	52.6	74.0
Precast Prestressed Concrete Deck Beams (11" Depth)	Sq. Ft.	1484			1484
Steel Bridge Rail, Type SM	Foot	98			98
Reinforcement Bars	Pound		1679	6452	8131
Furnishing Metal Shell Piles - 12"	Foot		190	333	523
Driving Piles	Foot		190	333	523
Test Pile Metal Shells	Each		1	1	2
Name Plates	Each	1			1
Concrete Encasement	Cu. Yd.		1.6	2.8	4.4
Portland Cement Mortar Fairing Course	Foot	294			294



LOCATION SKETCH

INDEX OF SHEETS

- GENERAL PLAN & ELEVATION
- P.P.C. DECK BEAM SUPERSTRUCTURE
- P.P.C. DECK BEAM DETAILS
- P.P.C. DECK BEAM PILE BENT ABUTMENTS
- P.P.C. DECK BEAM PILE BENT PIER
- STEEL BRIDGE RAIL, TYPE SM
- NAME PLATE
- PILE DETAILS

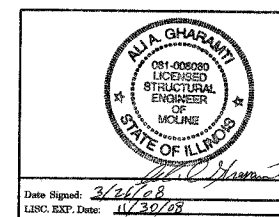
GENERAL PLAN & ELEVATION

BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR

SPRING CREEK
BUILT 2008 BY
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SEC. 04-09116-00-BR
STATION 13+12
STR. NO. 101-3096 LOADING HS20-44

LETTERING FOR NAME PLATE

Locate Name Plate at Northwest Corner of Bridge (See Std. CN)



"I certify that to the best of my knowledge, information, and belief, this bridge is designed and structurally adequate for the design loading shown on the plans, the design is an economical one for the style of structure and complies with the requirements of the current A.A.S.H.T.O. standard specifications for highway bridges."

WATERWAY INFORMATION

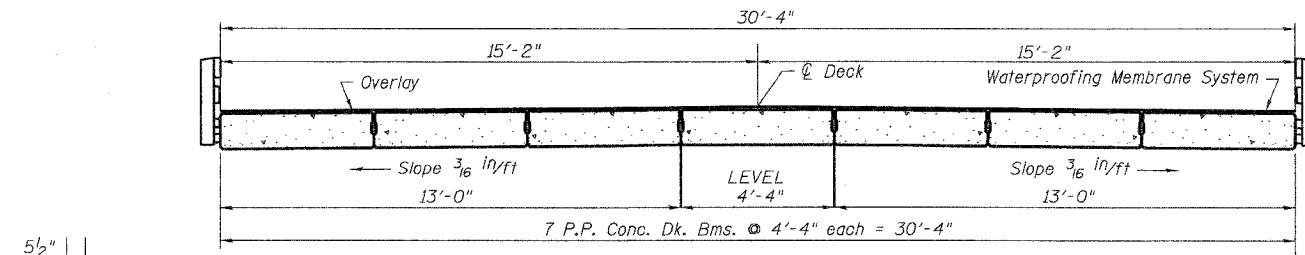
Drainage Area = 5.74 SQ.MI. Low Grade Elev. = 765.98 @ Sta. 11+88

Flood Yr.	Freq. C.F.S.	Q	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Design	30	1150	222.37	265.02	765.62	0.38	0.27	766.00	765.89
Base	100	1480	222.37	265.02	765.94	0.50	0.46	766.44	766.40
Overtopping	50	1268	222.37	265.02	765.73	0.44	0.34	766.17	766.07

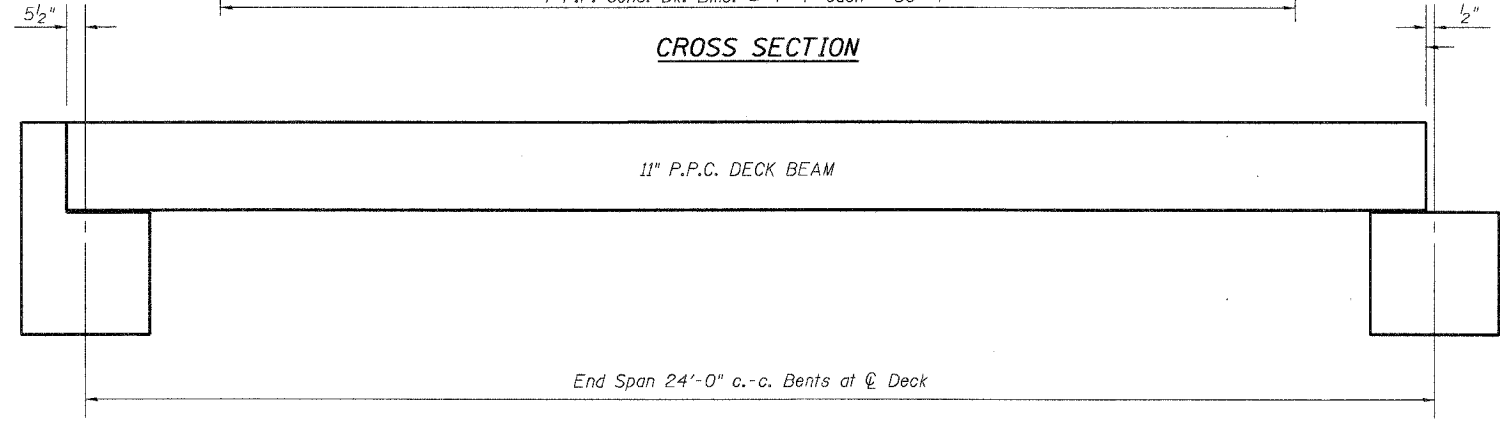
McClure
Engineering Associates, Inc.
7282 Argus Drive
Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
TR0683E	04-09116-00-BR	WINNEBAGO	15	5
ILLINOIS		FED. AID PROJECT		

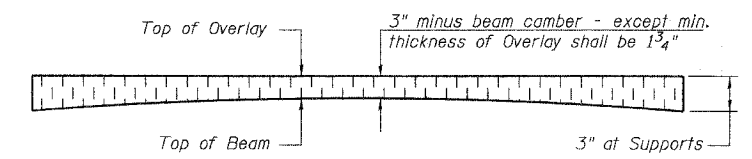
BRIDGE SHEET
2 of 8



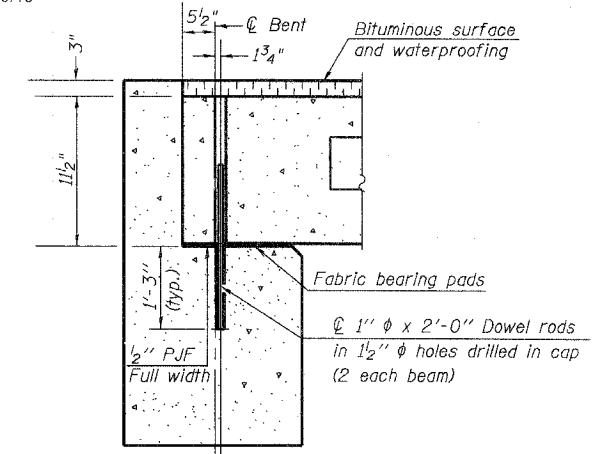
CROSS SECTION



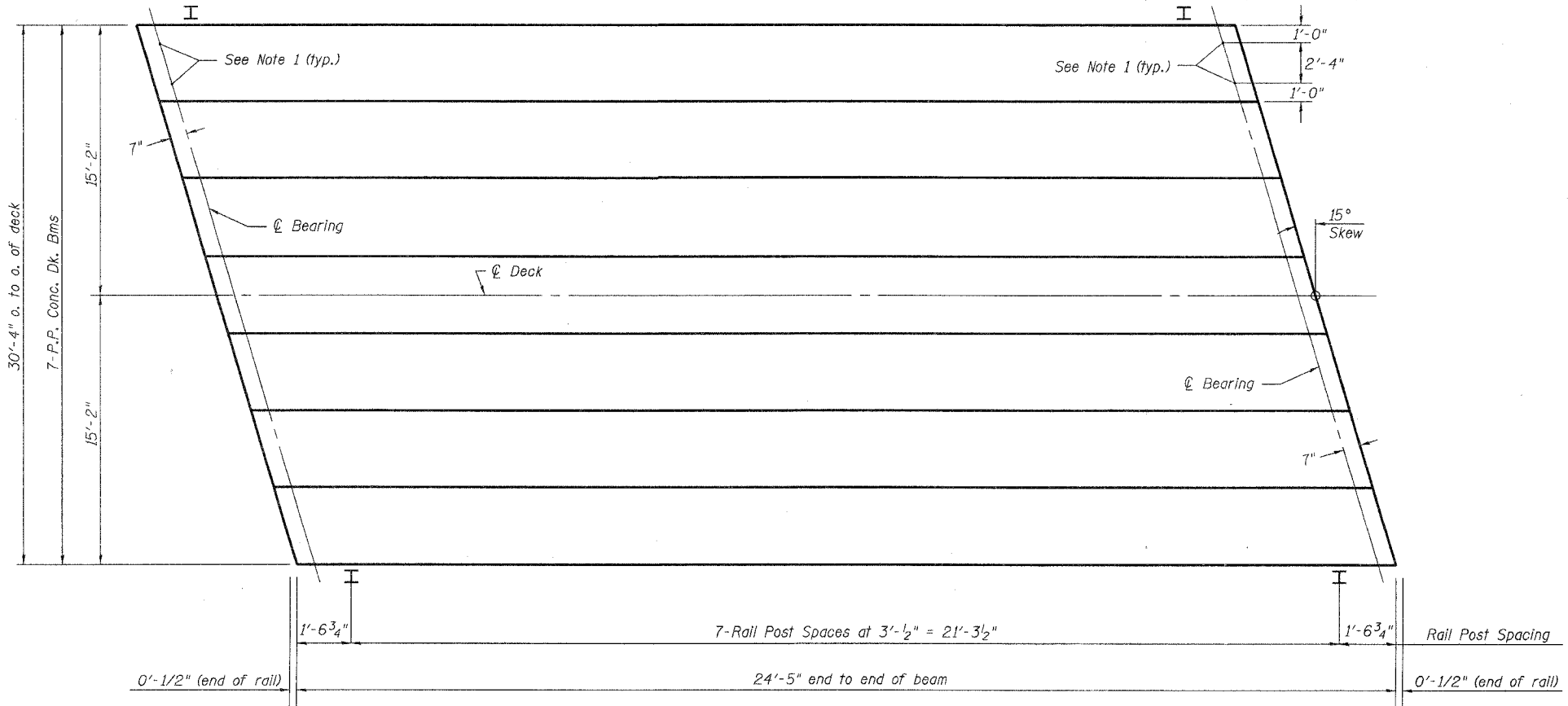
TYPICAL ELEVATIONS



PROFILE OF OVERLAY



SECTION THRU ABUTMENTS
(along centerline of beams)



PLAN

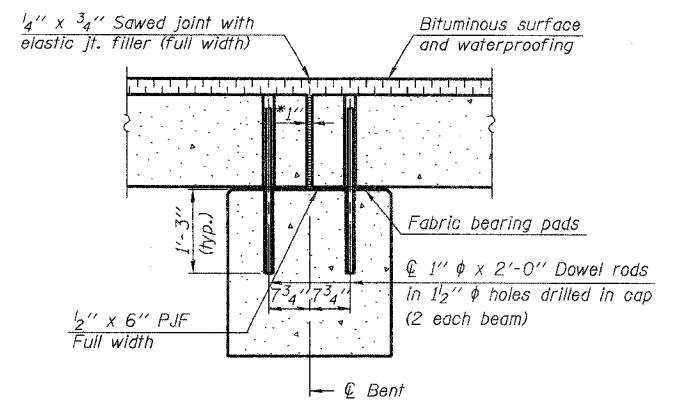
NOTES

1. 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.
2. Nominal 1" joint at centerline of Pier shall be filled with non-shrink grout.
3. Longitudinal keys shall be grouted.

QUANTITIES FOR ONE SPAN

Item	Unit	Total
P.P. Conc. Dk. Bm. 11" Dp.	Sq. Ft.	742
Steel Railing	Ft.	49
Waterproofing Membrane System	Sq. Yds.	82.5
Portland Cement Mortar Fairing Course	Ft.	147

Note: Quantity of Overlay for One Span = 14.2 Tons



SECTION THRU FIXED PIER
(along centerline of beams)

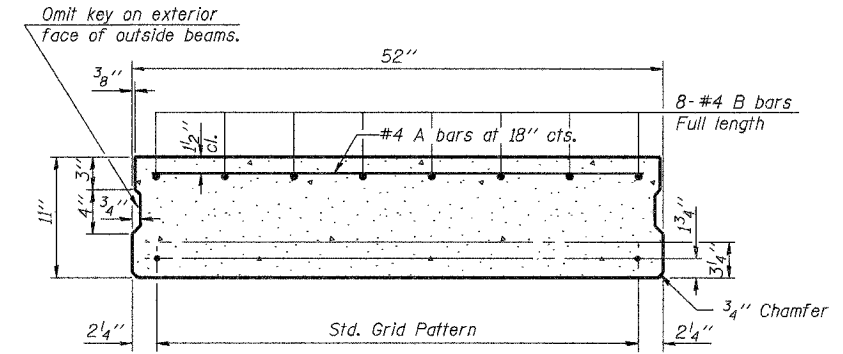
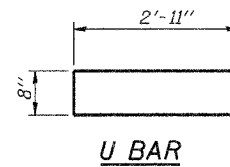
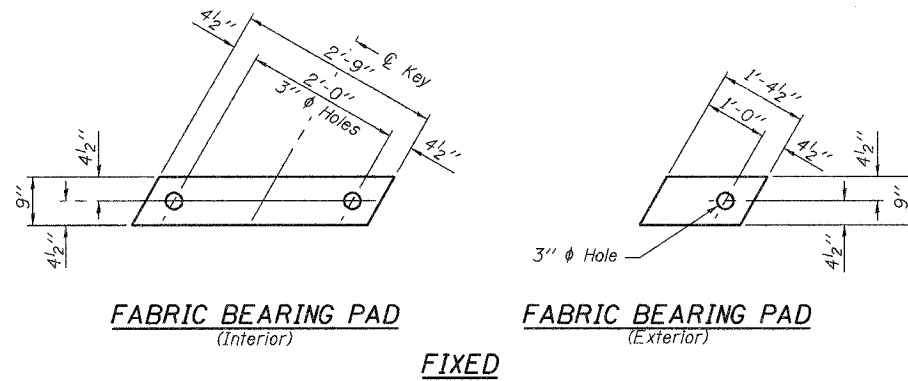
*1" Jt. shall be filled with non-shrink grout. 1" dimension may vary to accommodate tolerance in beam lengths.

P.P.C. DECK BEAM SUPERSTRUCTURE

**BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR**

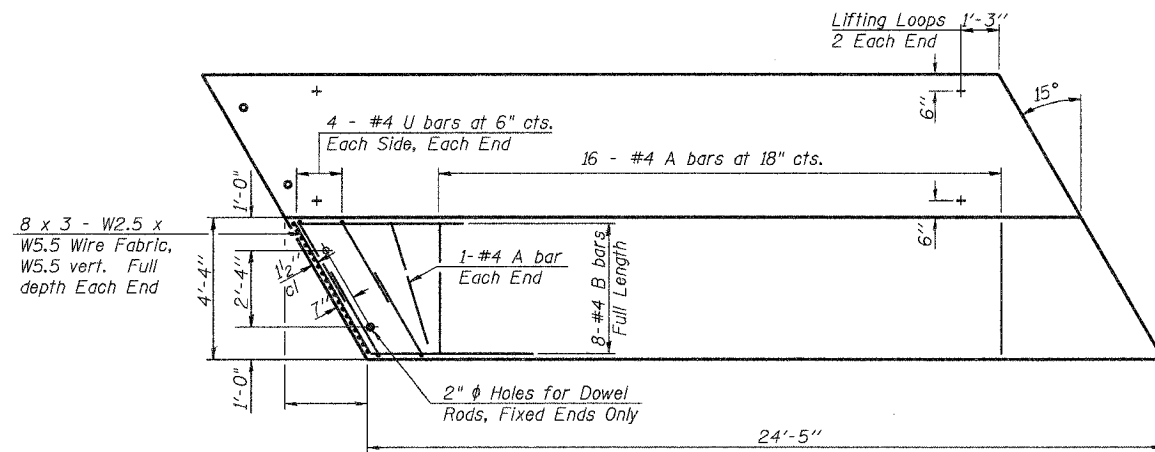
McClure
Engineering Associates, Inc.
7282 Argus Drive
Rockford, Illinois 61107-5837
(815) 398-2532 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR0663E	04-09116-00-BR	WINNEBAGO	15	6
ILLINOIS		FED. AID PROJECT		

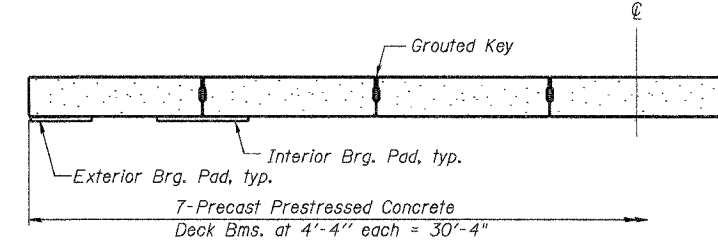


1/2" ϕ Strands, Each Strand Stressed to 30,900 Lbs.
6-Strands 1 3/4" up, 8-Strands 3/4" up,

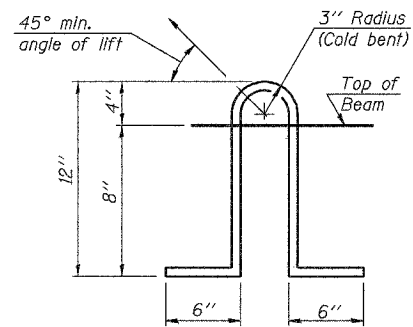
Note:
Place strands symmetrically about ϕ of beam.



PLAN



HALF CROSS SECTION



LIFTING LOOP DETAIL

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. Lifting loops shall be 2 - 1/2" ϕ -270 ksi strands, as shown. The 1" ϕ rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets that receive transverse tie bar on outside shall be filled with grout after transverse tie assembly is in place. N/A

Non prestressing steel placed in deck beams shall conform to ASTM A 706 (IL MOD), Grade 60, and shall be included in the cost of the deck beams.

The bearing seat surfaces shall be adjusted by shimming to assure firm and even bearing. Two 1/8" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing.

Keyway surfaces shall be cleaned to remove form oil or other bond breaking material prior to shipment of the beams. Cleaning shall be done by sandblasting the keyway areas between top of the beam and the bottom edge of the key.

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

Required Release Strength, f'ci, shall be 4,000 p.s.i.

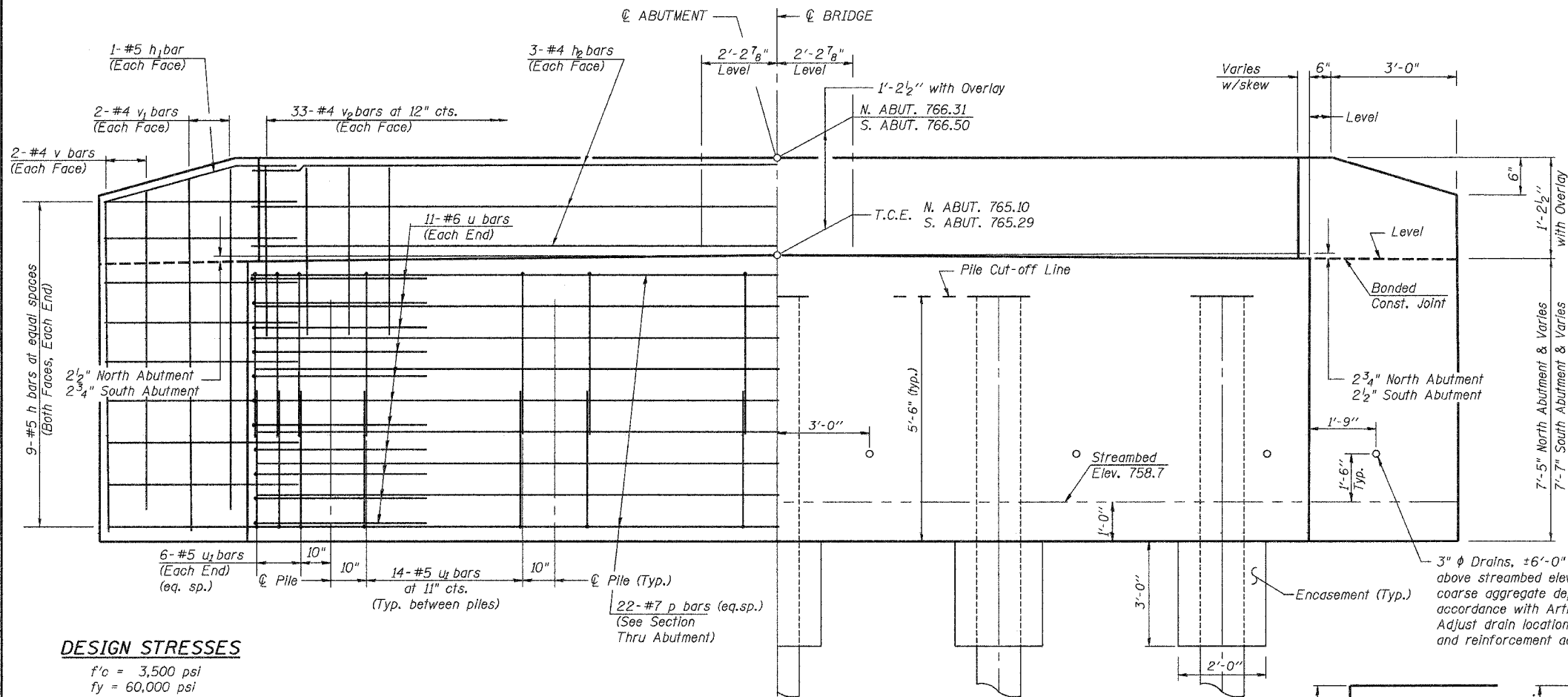
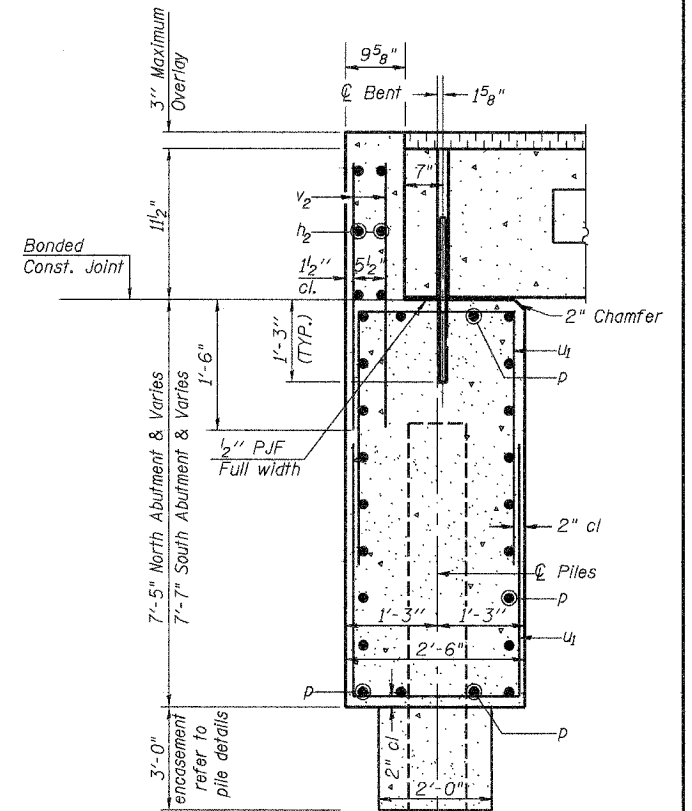
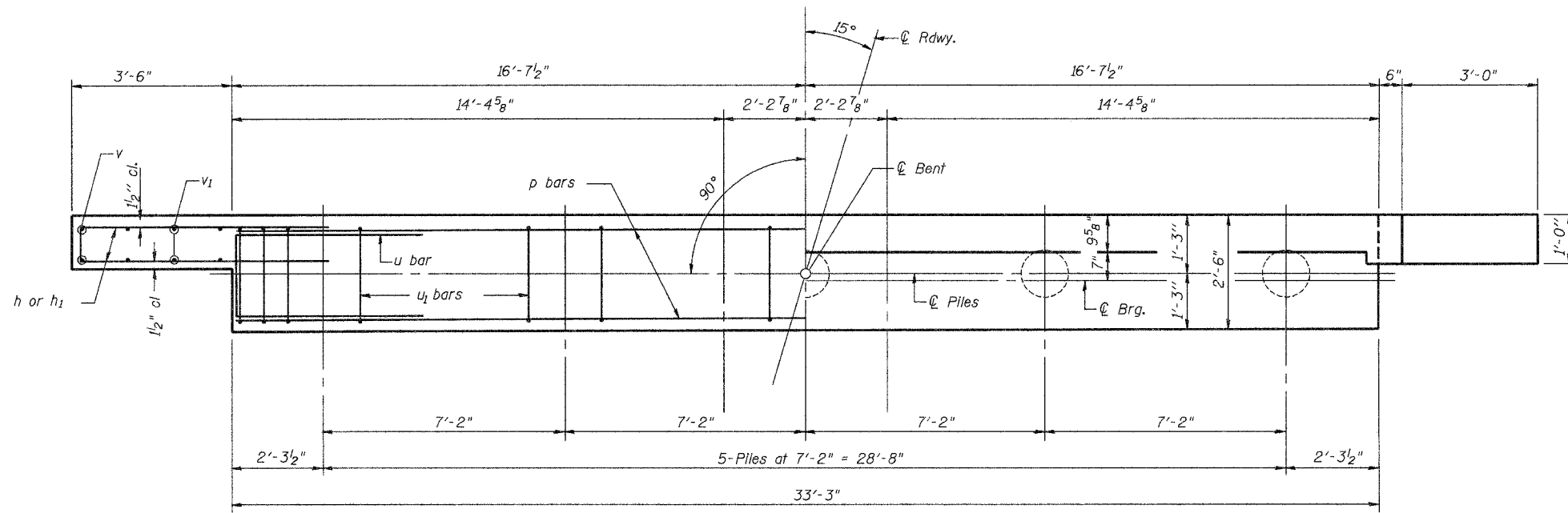
P.P.C. DECK BEAM DETAILS

**BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR**

McClure
Engineering Associates, Inc.

7282 Argus Drive Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

ROUTE NO.	SECTION	COUNTY	SHEET NO.	SHEET
TR0863E	04-09116-00-BR	WINNEBAGO	15	7
ILLINOIS		FED. AID PROJECT		



DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi

NOTES

1. The Backwall and the portion of the Wingwalls above the bounded construction joint shall be cast against the in-place beam.
2. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
3. Space reinforcement in cap to miss anchor bolts.

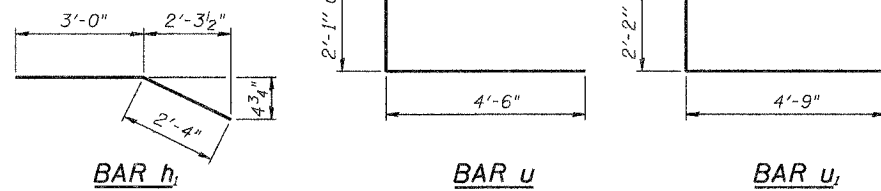
BILL OF MATERIAL FOR ONE ABUTMENT

Bar	No.	Size	Length	Shape
h	36	#5	5'-4"	—
h1	4	#5	5'-4"	—
h2	6	#4	32'-11"	—
p	22	#7	32'-11"	—
u	22	#6	11'-1"	—
u1	68	#5	11'-8"	—
v	8	#4	7'-9"	—
v1	8	#4	8'-0"	—
v2	66	#4	2'-7"	—
Concrete Encasement	1.4		Cu. Yd.	
Concrete Structures	26.3		Cu. Yd.	
Reinforcement Bars	3226		Pounds	

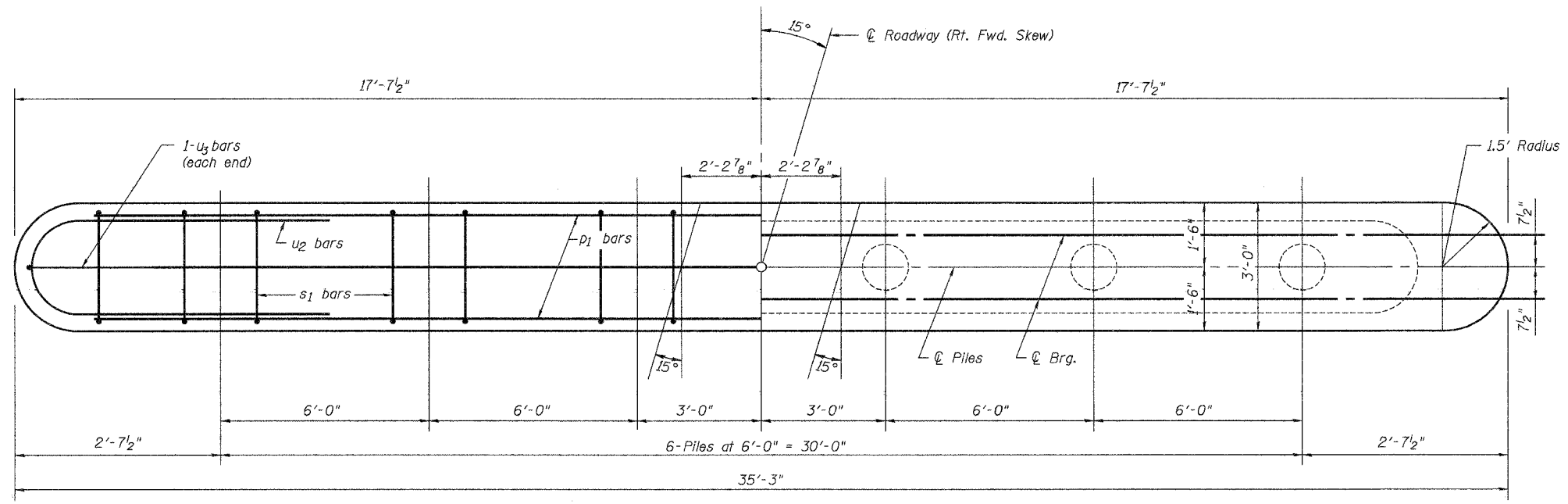
P.P.C. DECK BEAM PILE BENT ABUTMENTS
BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR



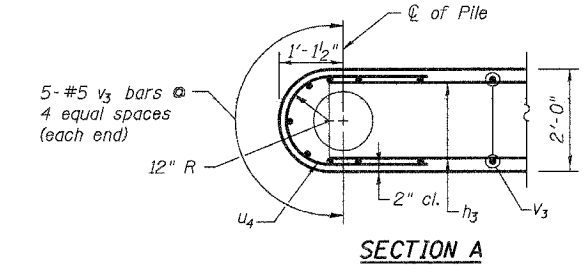
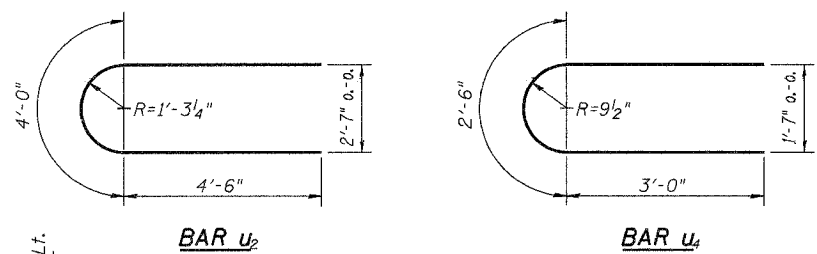
7282 Argus Drive Rockford, Illinois 61107-5837
 (815) 398-2332 FAX (815) 398-2496
 Design Firm License: Illinois 184-000816
 Copyright 2008 By McClure Engineering Associates, Inc.



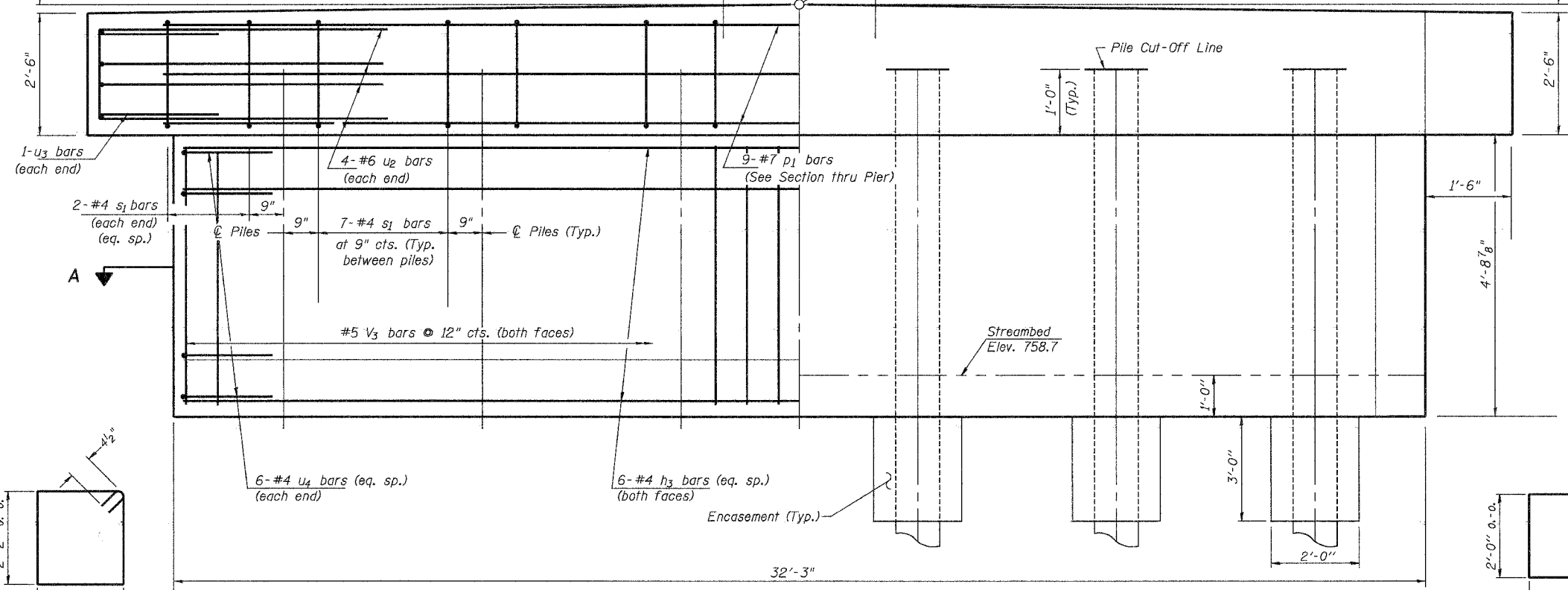
ROUTE NO.	SECTION	COUNTY	SHEETS	SHEET NO.
TR0683E	04-09116-00-BR	WINNEBAGO	15	8
DRAWN BY		PROJECT		



PLAN



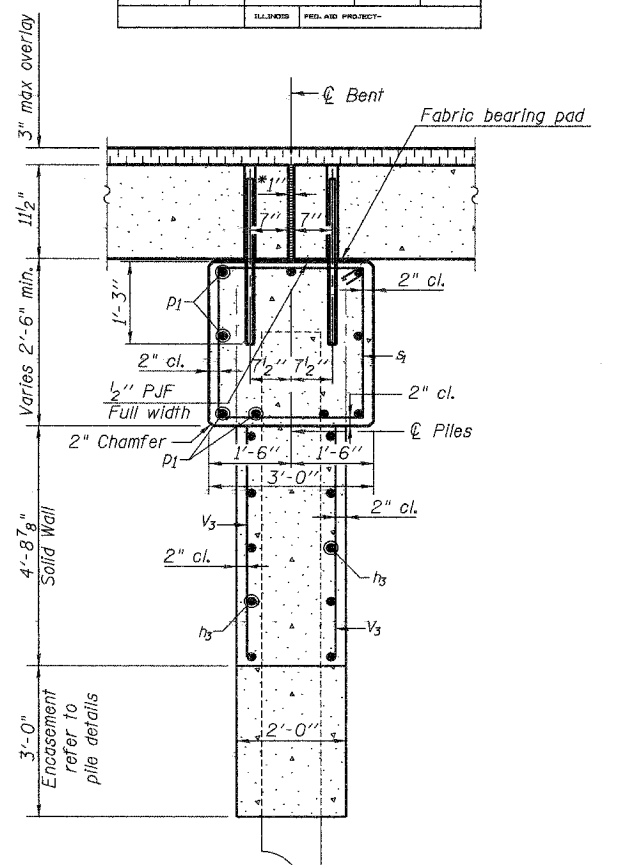
SECTION A



ELEVATION

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi



SECTION THRU FIXED PIER
(At Right Angles)

* Refer to P.P.C. Deck Beam Superstructure for Nominal 1" Joint Note.

BILL OF MATERIAL
FOR ONE PIER

Bar	No.	Size	Length	Shape
h3	12	#4	30'-3"	—
p1	9	#7	32'-3"	—
s1	39	#4	10'-5"	□
u2	8	#6	13'-0"	U
u3	2	#4	8'-0"	U
u4	12	#4	8'-6"	U
v3	76	#5	4'-3"	—
Concrete Encasement		1.6	Cu. Yd.	
Concrete Structures		21.4	Cu. Yd.	
Reinforcement Bars		1679	Pounds	

P.P.C. DECK BEAM PILE BENT PIER

BROOKVIEW ROAD BRIDGE
OVER SPRING CREEK
ROCKFORD ROAD DISTRICT
WINNEBAGO COUNTY
SECTION 04-09116-00-BR



7282 Argus Drive
Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

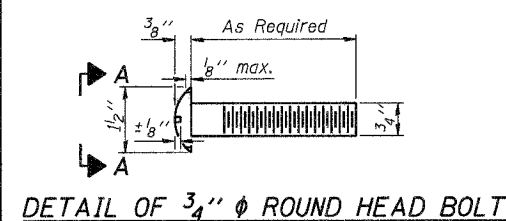
NOTES

1. Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31 or M-322, Grade 60.
2. Space reinforcement in cap to miss anchor bolts.

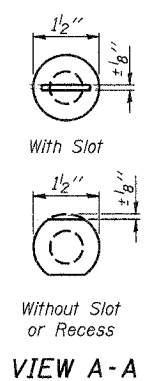
BAR s1

BAR u3

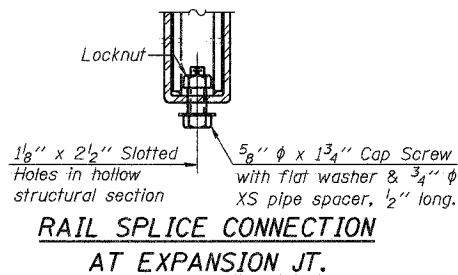
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR0833E	04-09116-00-BR	WINNEBAGO	15	9
ILLINOIS FED. AID PROJECT				



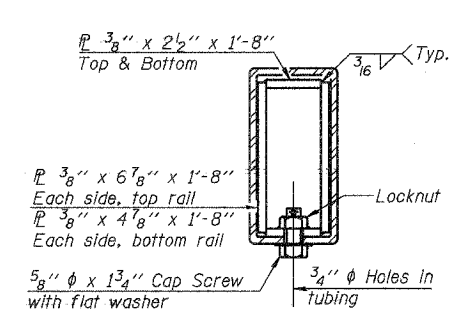
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



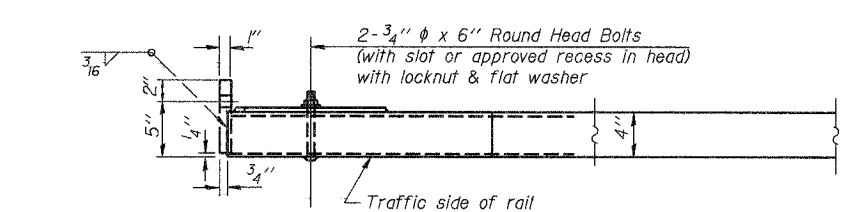
VIEW A-A



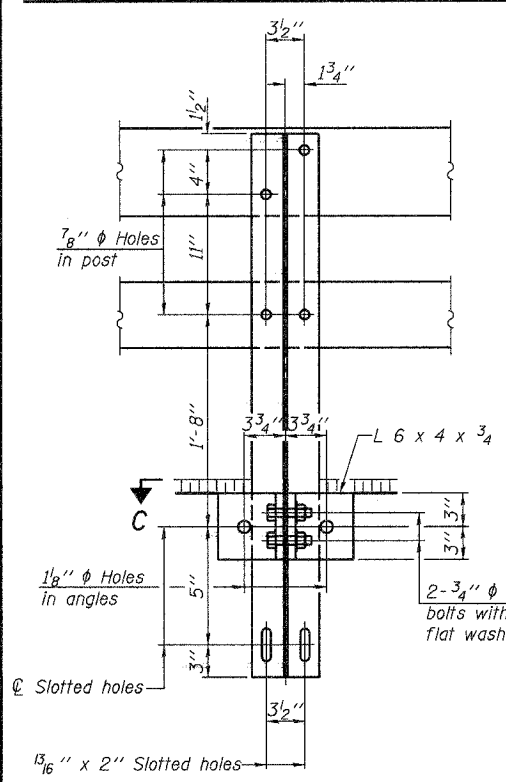
RAIL SPLICE CONNECTION AT EXPANSION JT.



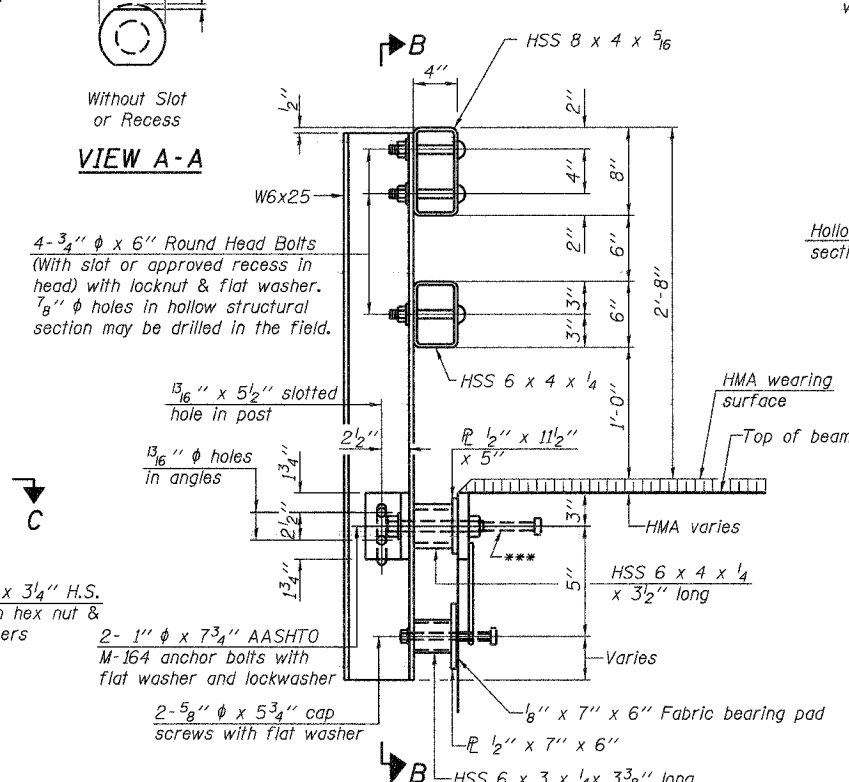
SECTION AT RAIL SPLICE



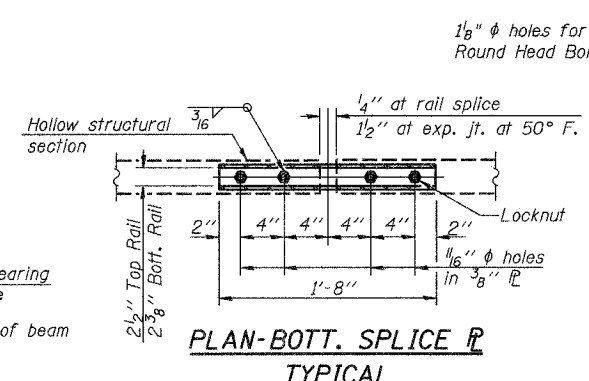
END OF RAIL DETAILS



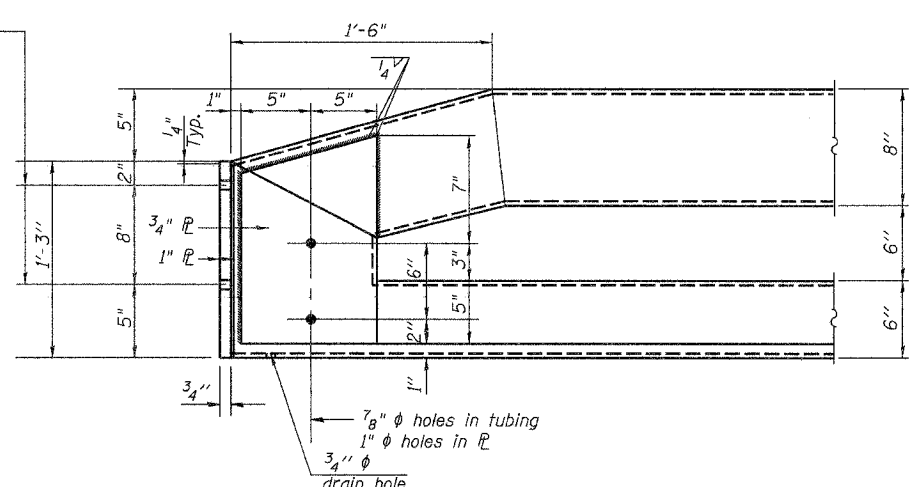
SECTION B-B



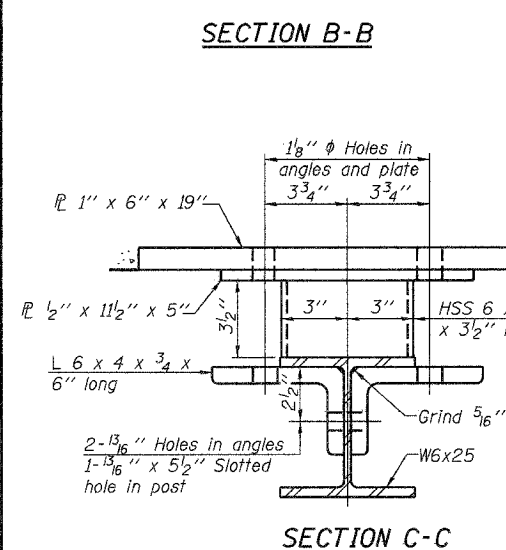
SECTION AT RAIL POST



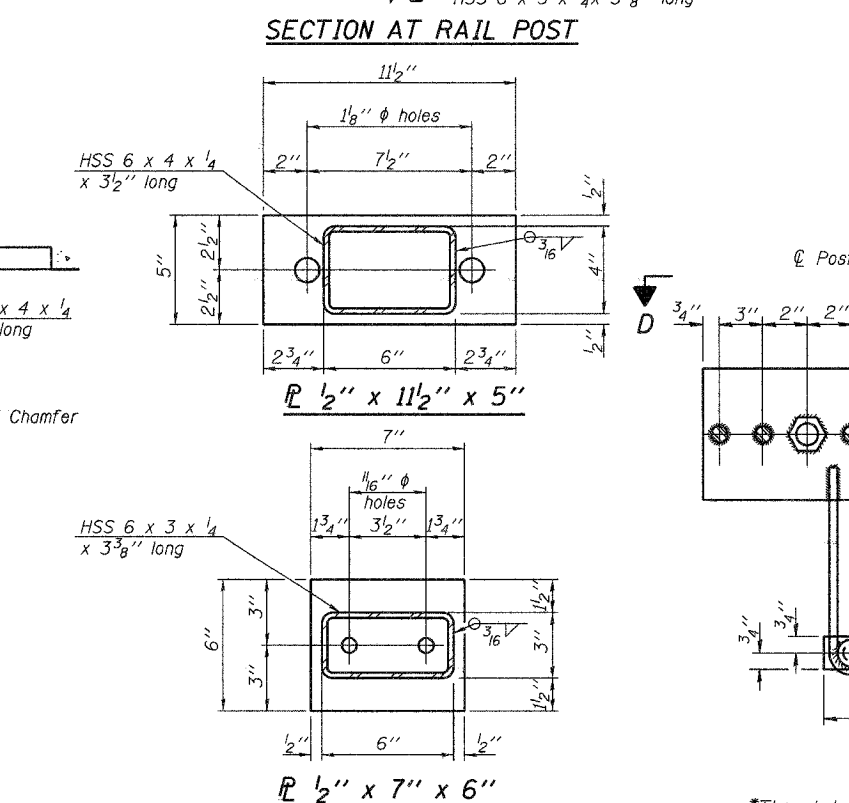
PLAN-BOTT. SPLICE P TYPICAL



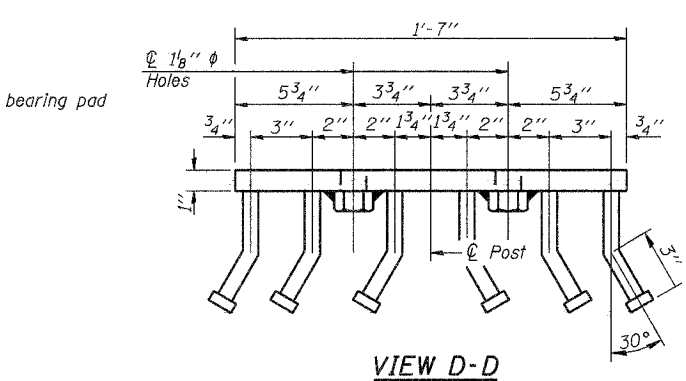
END OF RAIL DETAILS



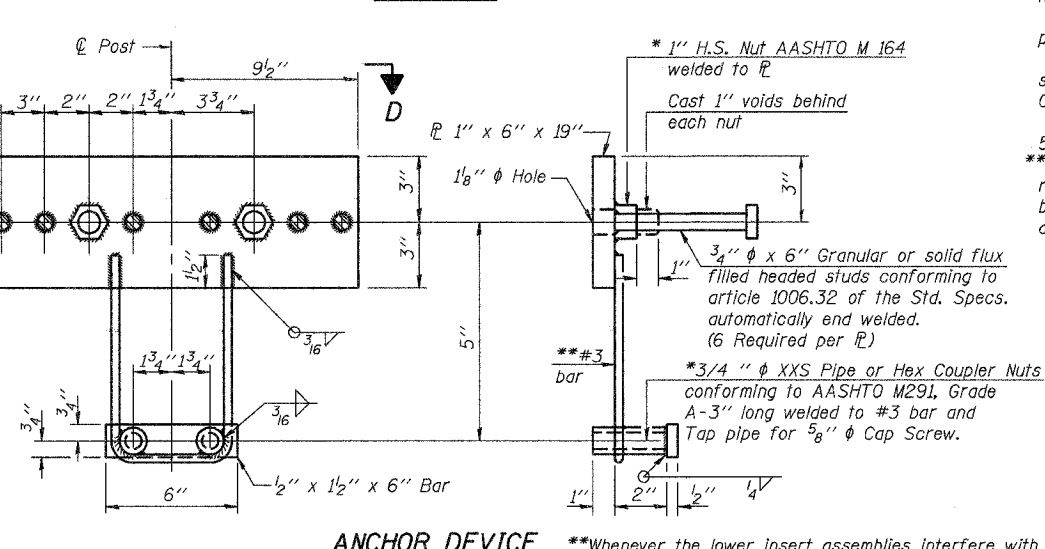
SECTION C-C



ANCHOR DEVICE



VIEW D-D



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

**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".

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	98

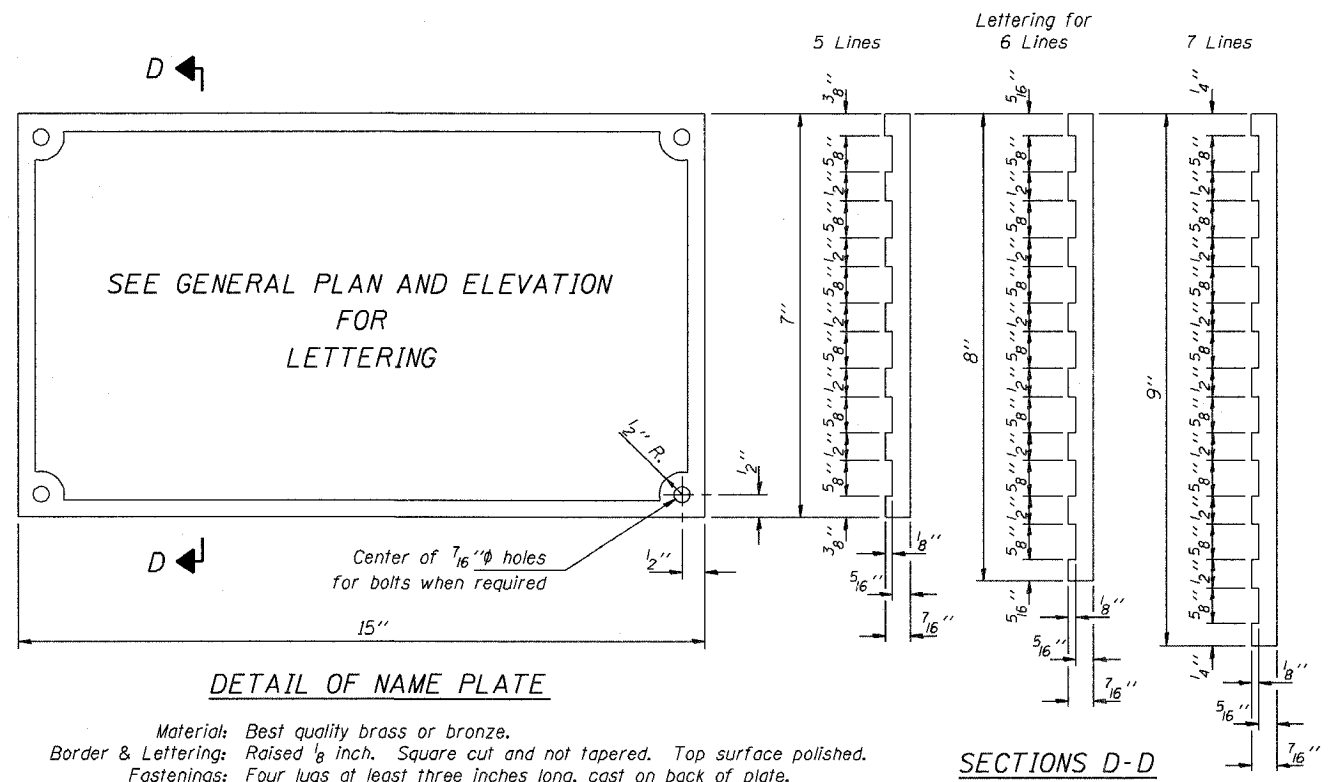
STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE

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.

STEEL BRIDGE RAIL TYPE SM
 BROOKVIEW ROAD BRIDGE
 OVER SPRING CREEK
 ROCKFORD ROAD DISTRICT
 WINNEBAGO COUNTY
 SECTION 04-09116-00-BR

McClure
 Engineering Associates, Inc.
 7282 Argus Drive
 Rockford, Illinois 61107-5837
 (815) 398-2332 FAX (815) 398-2496
 Design Firm License: Illinois 184-000816
 Copyright 2008 By McClure Engineering Associates, Inc.

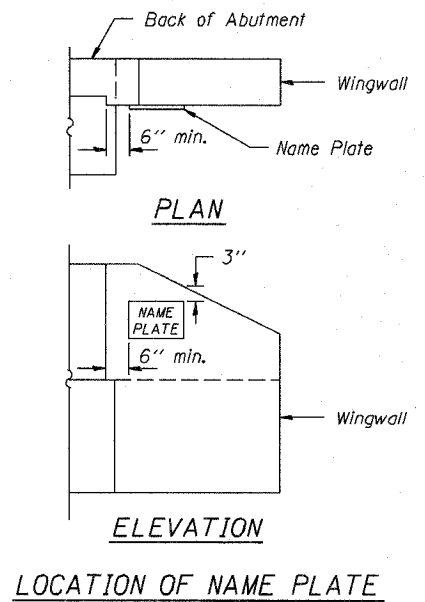
(3'-1/2" Maximum Post Spacing) (1/4" minimum to 3/8" maximum HMA thickness)



DETAIL OF NAME PLATE

Material: Best quality brass or bronze.
 Border & Lettering: Raised 1/8 inch. Square cut and not tapered. Top surface polished.
 Fastenings: Four lugs at least three inches long, cast on back of plate.

SECTIONS D-D



LOCATION OF NAME PLATE

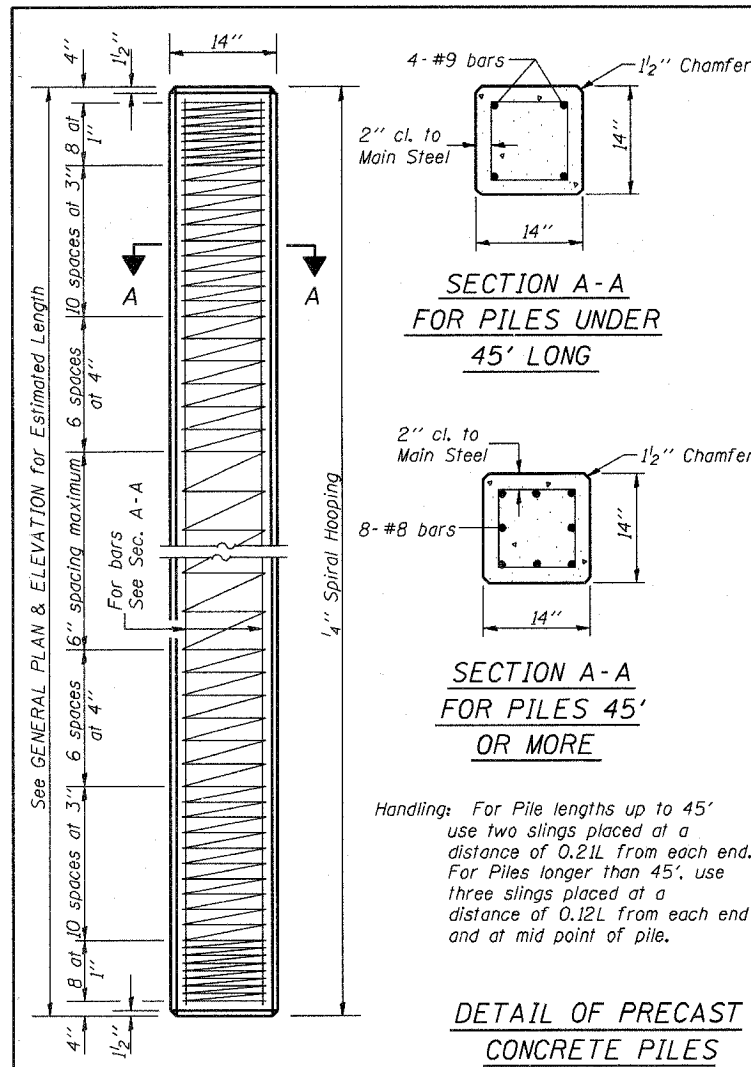
Illinois Department of Transportation

PASSED APRIL 4, 2005
Thomas S. Namasabadi
 Engineer of Bridge Design

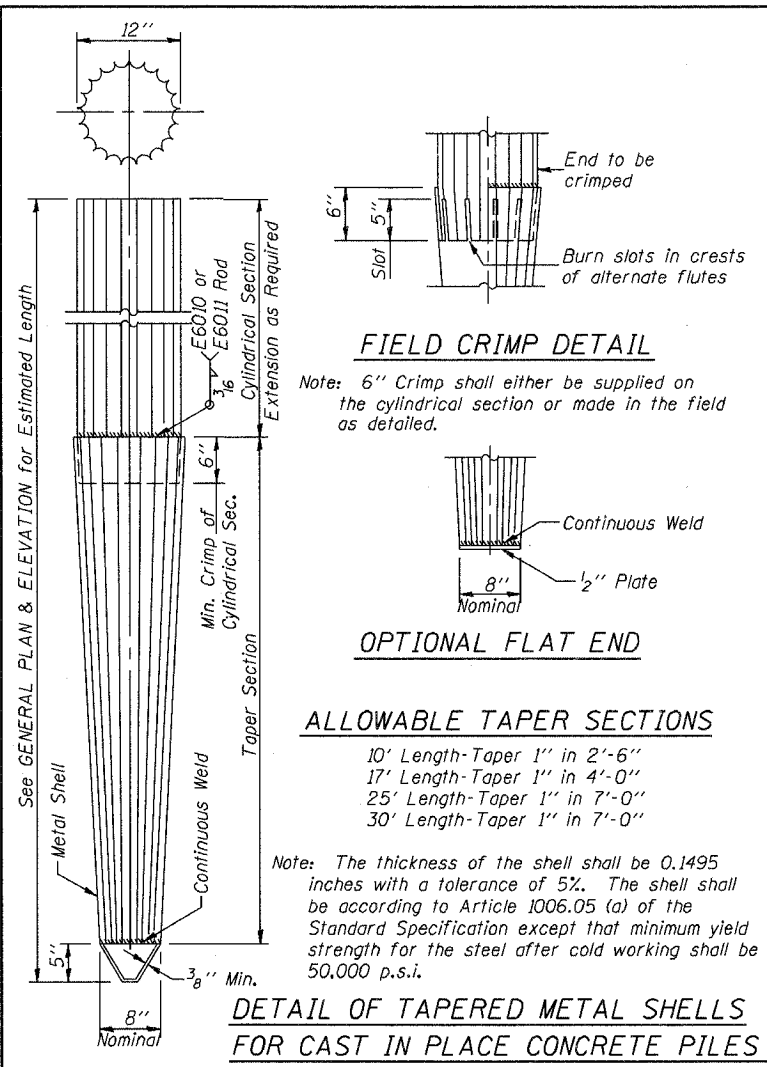
APPROVED APRIL 4, 2005
Ralph E. Anderson
 Engineer of Bridges and Structures

569-1-7 03/05/03

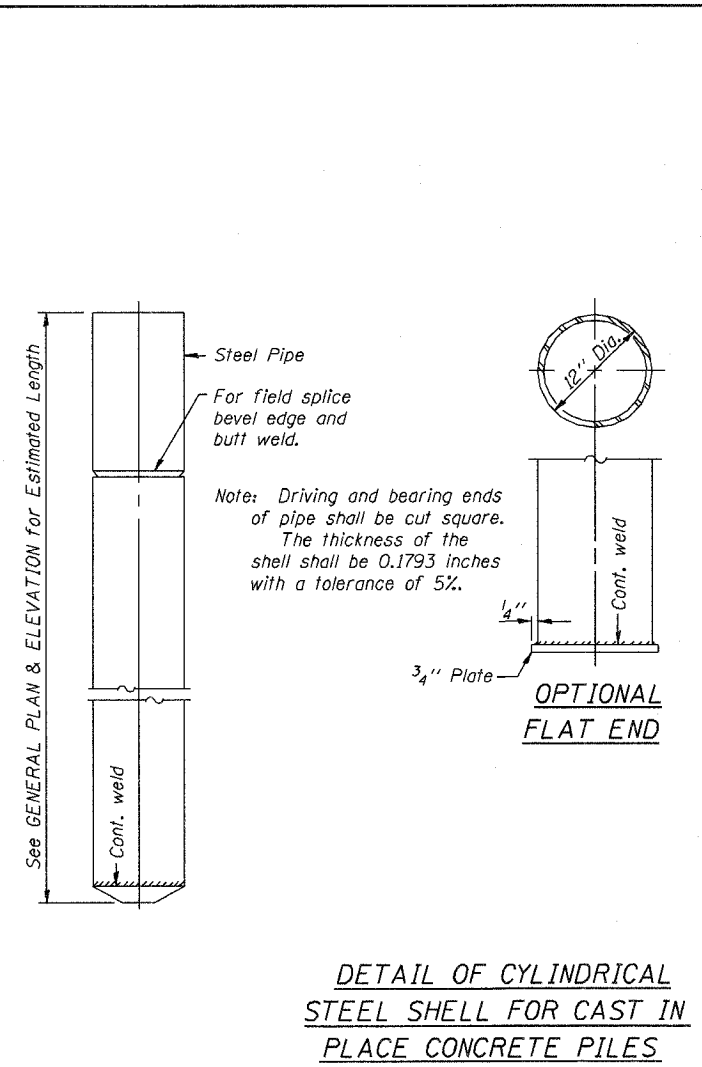
NAME PLATE
 STANDARD CN



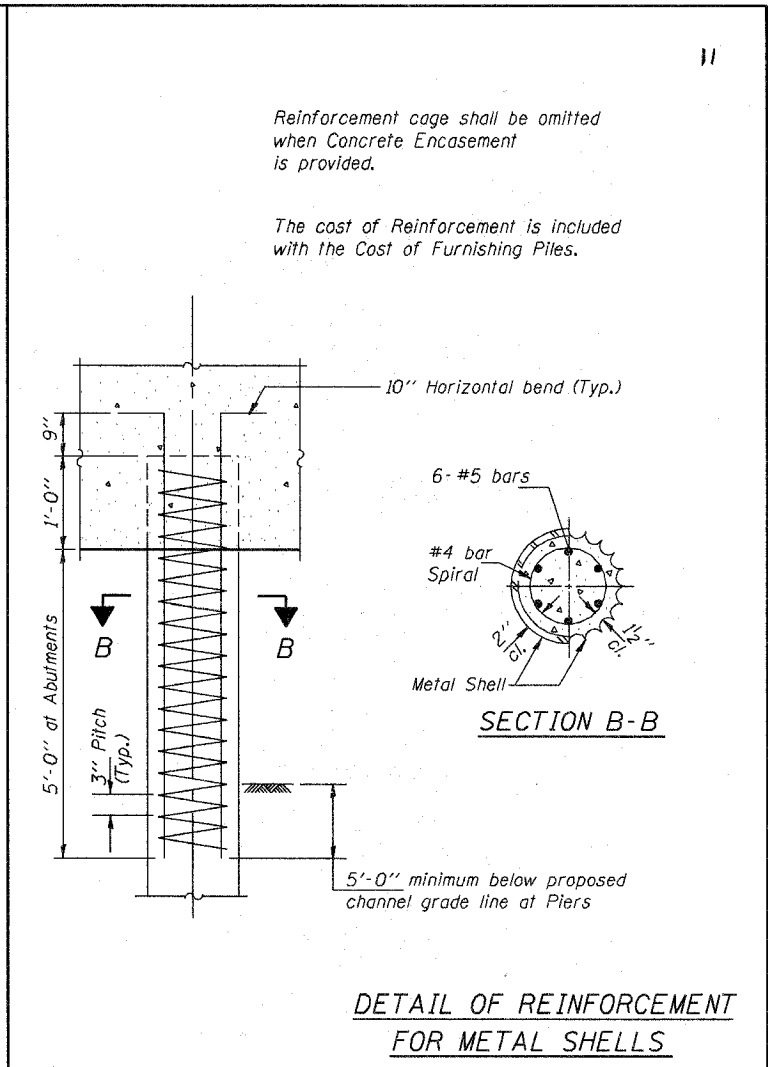
DETAIL OF PRECAST CONCRETE PILES



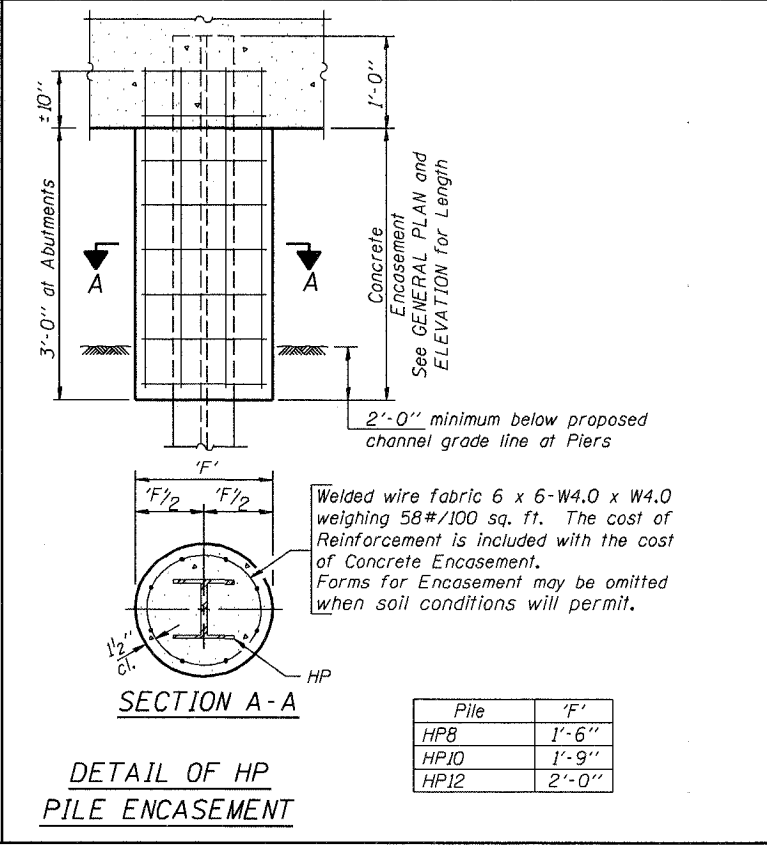
DETAIL OF TAPERED METAL SHELLS FOR CAST IN PLACE CONCRETE PILES



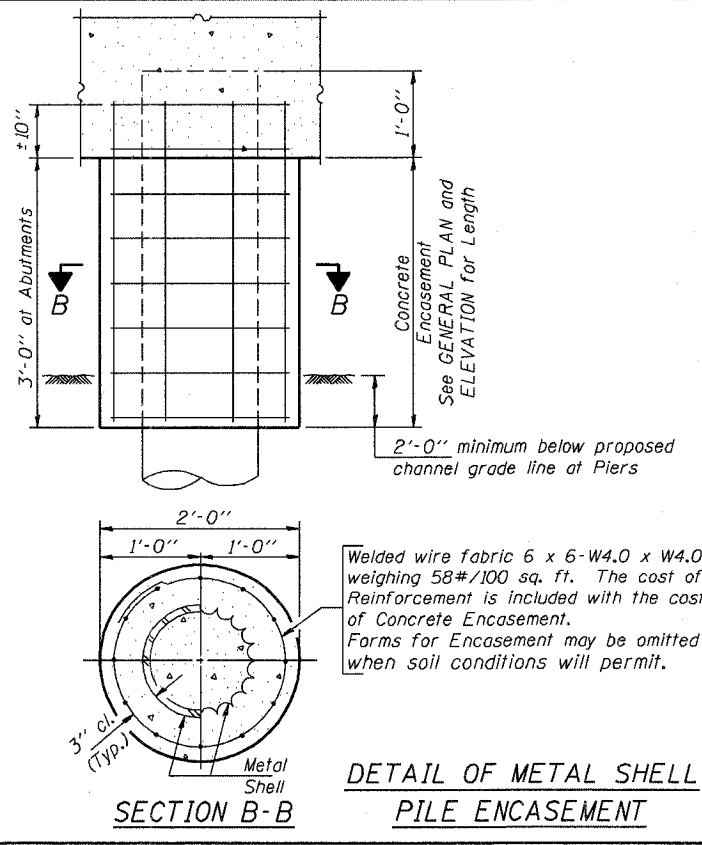
DETAIL OF CYLINDRICAL STEEL SHELL FOR CAST IN PLACE CONCRETE PILES



DETAIL OF REINFORCEMENT FOR METAL SHELLS



DETAIL OF HP PILE ENCASEMENT



DETAIL OF METAL SHELL PILE ENCASEMENT

QUANTITIES/FT. OF ENCASEMENT (STEEL PILES)

Pile Size	Item	Quantity
HP8	Concrete Encasement	0.063 C.Y.
HP10	Concrete Encasement	0.086 C.Y.
HP12	Concrete Encasement	0.112 C.Y.

(METAL SHELL PILES)

Pile Size	Item	Quantity
12" Dia.	Concrete Encasement	0.087 C.Y.

PILE DETAILS
STANDARD CX-1

Illinois Department of Transportation

PASSED FEBRUARY 1, 2000

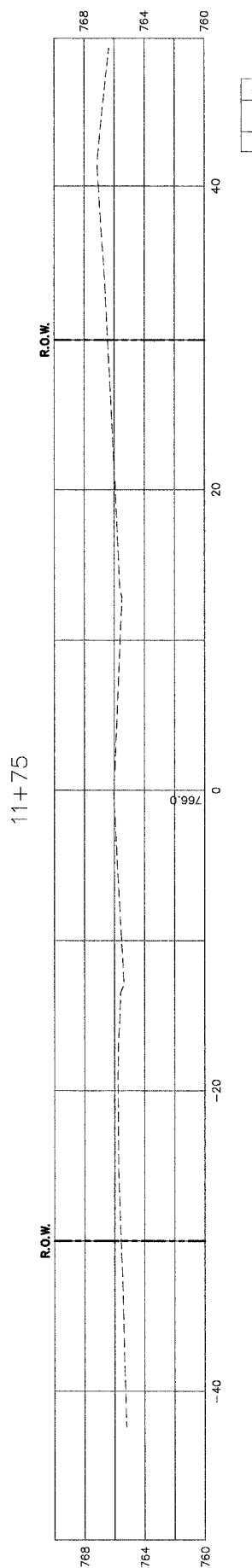
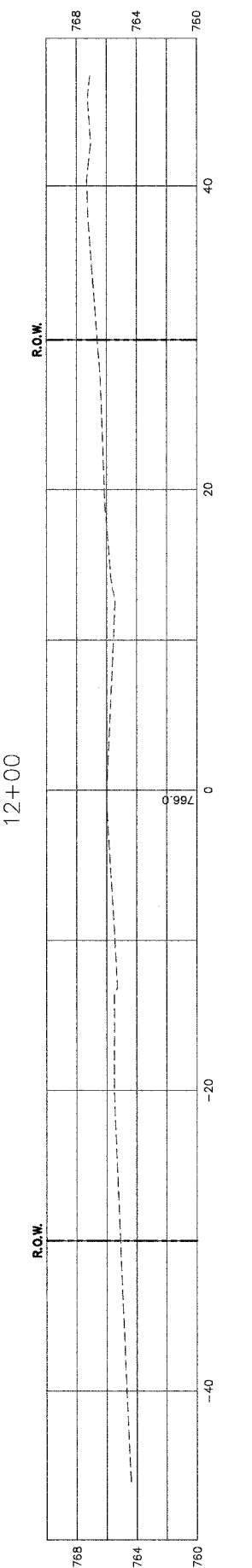
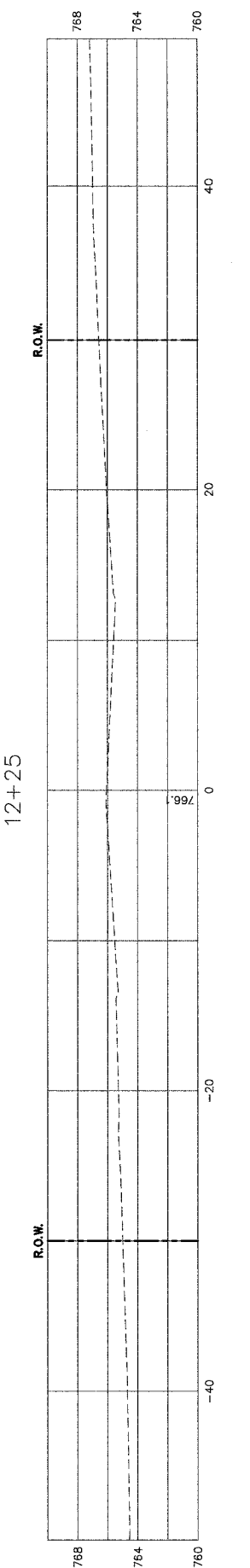
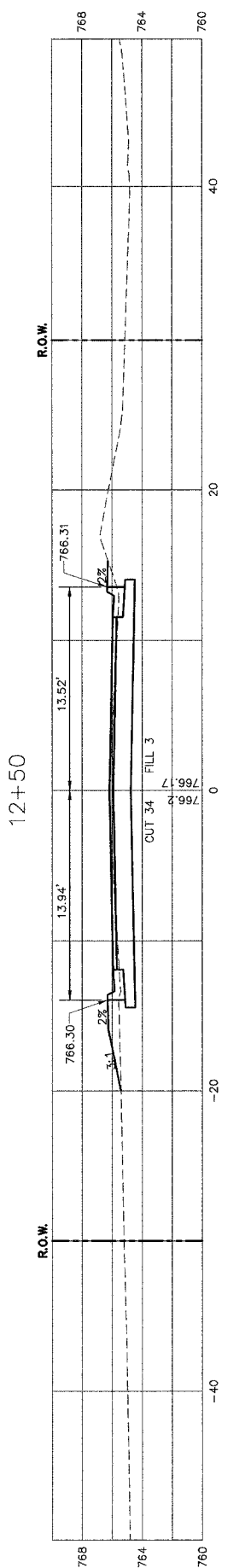
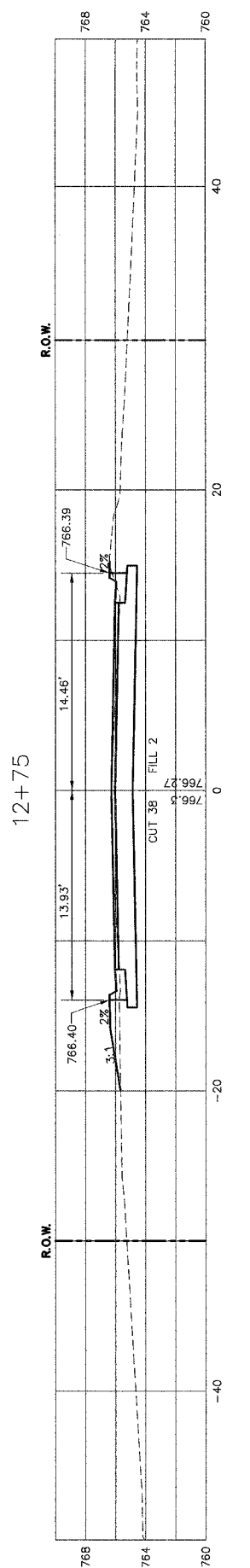
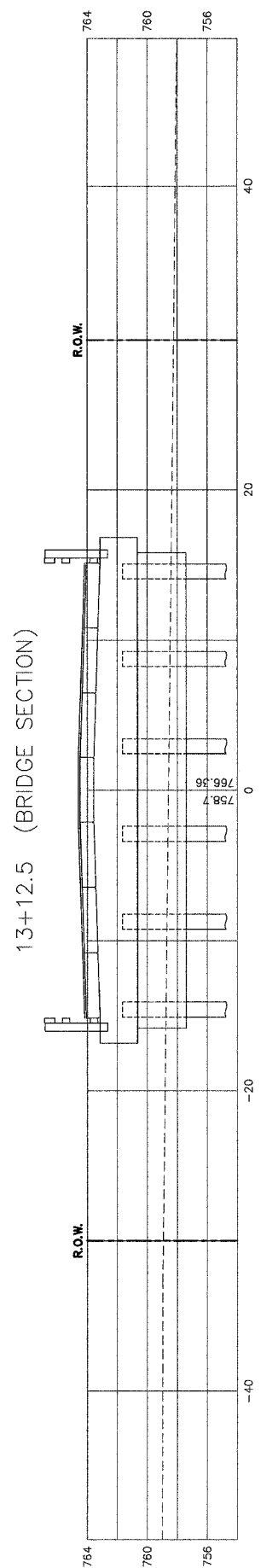
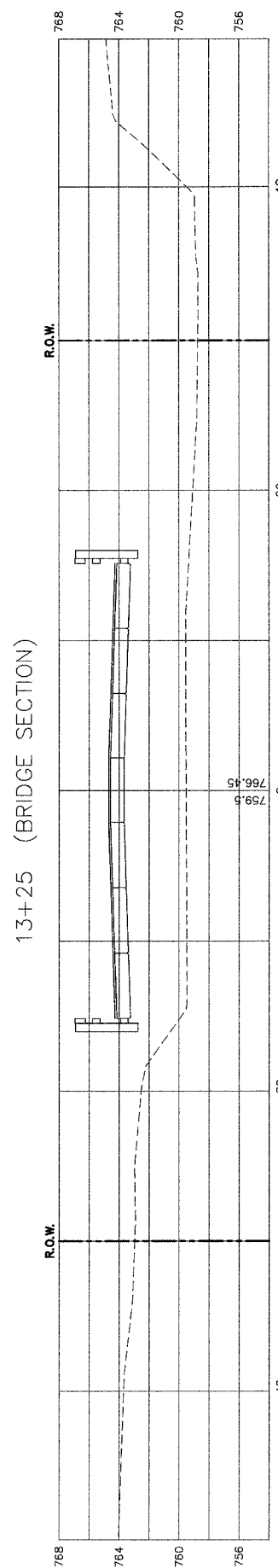
Thomas J. Nemesalaki
Engineer of Bridge Design

APPROVED FEBRUARY 1, 2000

Ralph E. Anderson
Engineer of Bridges and Structures

15JUL01-H-198

FIGURE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
TR 0683E	04-0911E -00-BR	WINNEBAGO	15	12
NAME		FED. AID PROJECT		



SHEET REVIEW	
AGENCY	DATE

REVISIONS		
NO.	ITEM	DATE

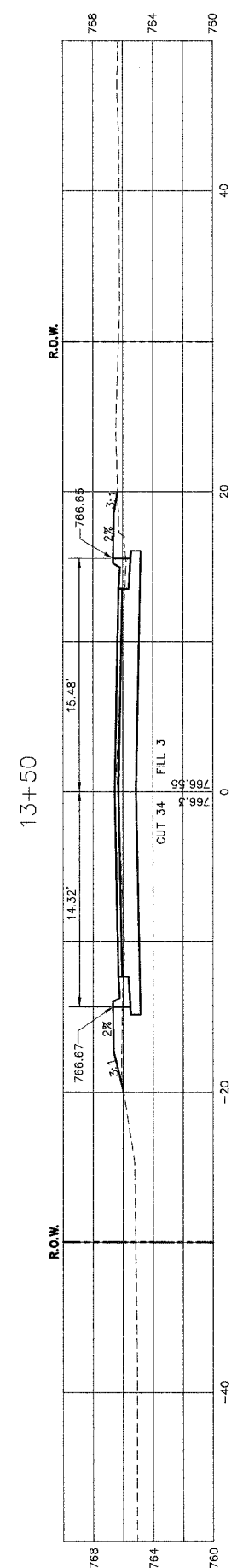
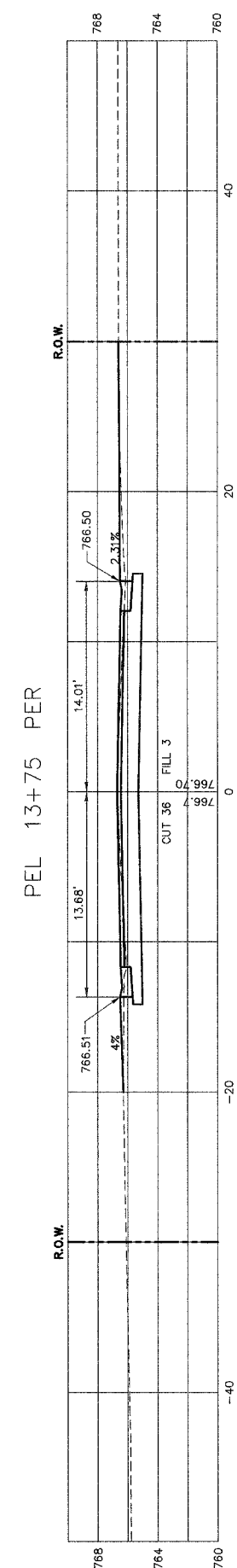
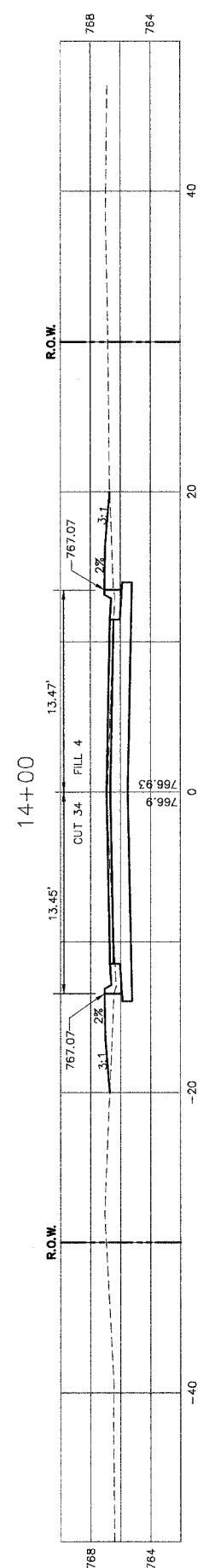
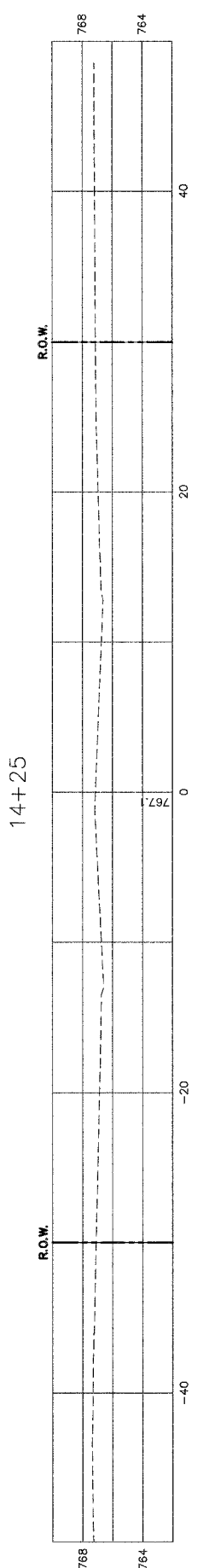
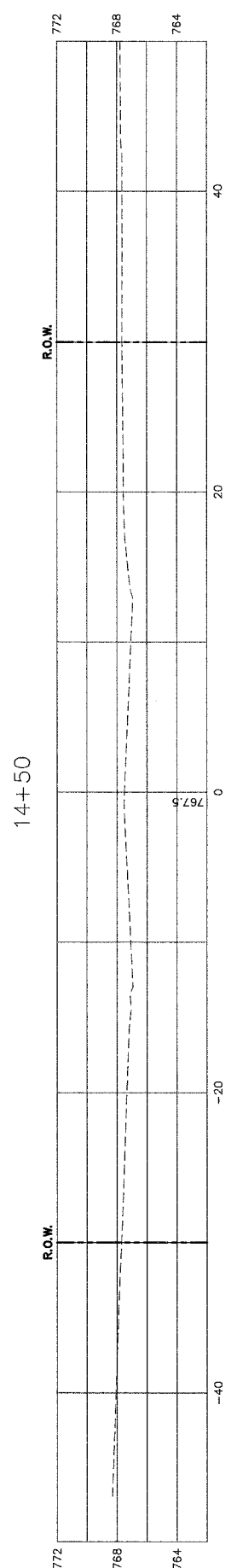
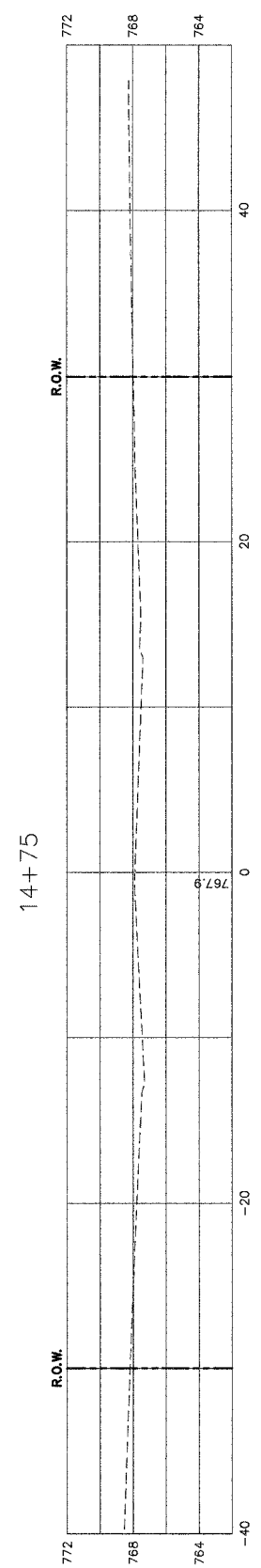
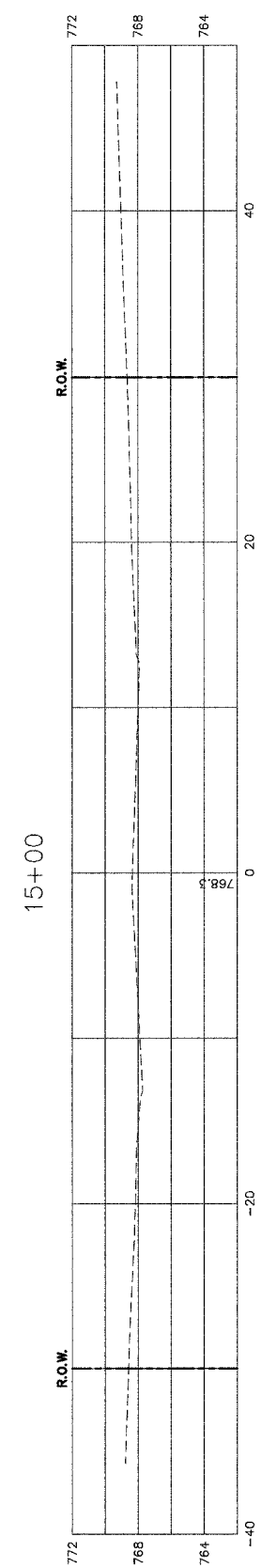
SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	CTB
DATE:	January 14, 2008

McClure
Engineering Associates, Inc.
7282 Arroyo Drive
Rockford, Illinois 61107-5837
(815) 398-2332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

CROSS SECTIONS 11+75 TO 13+25
BROOKVIEW ROAD/SPRING CREEK
BROOKVIEW ROAD STRUCTURE
ROCKFORD, ILLINOIS
FILE: 6:104-059 BROOKVIEW SPC\DESIGN\DRAWINGS\04059 CROSS SECTIONS.DWG
JOB: 04-30-04-059

SHEET NO.	12
OF	15

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 0683E	04-09116 -00-BR	WINNEBAGO	15	13
ALIGNMENT		FED. AID PROJECT		



SHEET REVIEW	
AGENCY	DATE

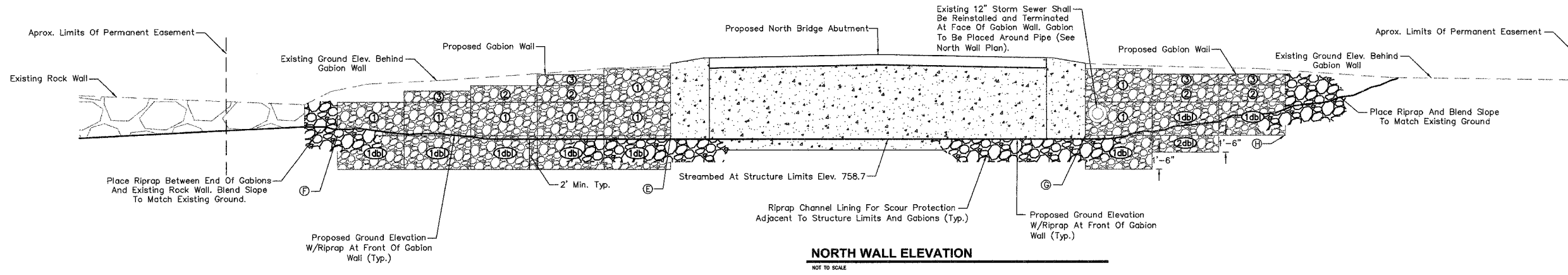
REVISIONS		
NO.	ITEM	DATE

SCALE:	Hor. 1"=5' Ver. 1"=5'
DRAWN BY:	MS
CHECKED BY:	CTB
DATE:	January 14, 2008

McClure
Engineering Associates, Inc.
7282 Argus Drive
Rockford, IL 61107-5837
(815) 398-7332 FAX (815) 398-2496
Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

CROSS SECTIONS 13+50 TO 15+00
BROOKVIEW ROAD/SPRING CREEK
BROOKVIEW ROAD STRUCTURE
ROCKFORD, ILLINOIS
FILE: G:\04-059 BROOKVIEW SPC\DESIGN\DRAWINGS\04059 CROSS SECTIONS.DWG
JOB: 04-30-04-059

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
TR 0683E	04-09116-00-BR	WINNEBAGO	15	14
ILLINOIS		FED. AID PROJECT-		



GABION BASKET KEY

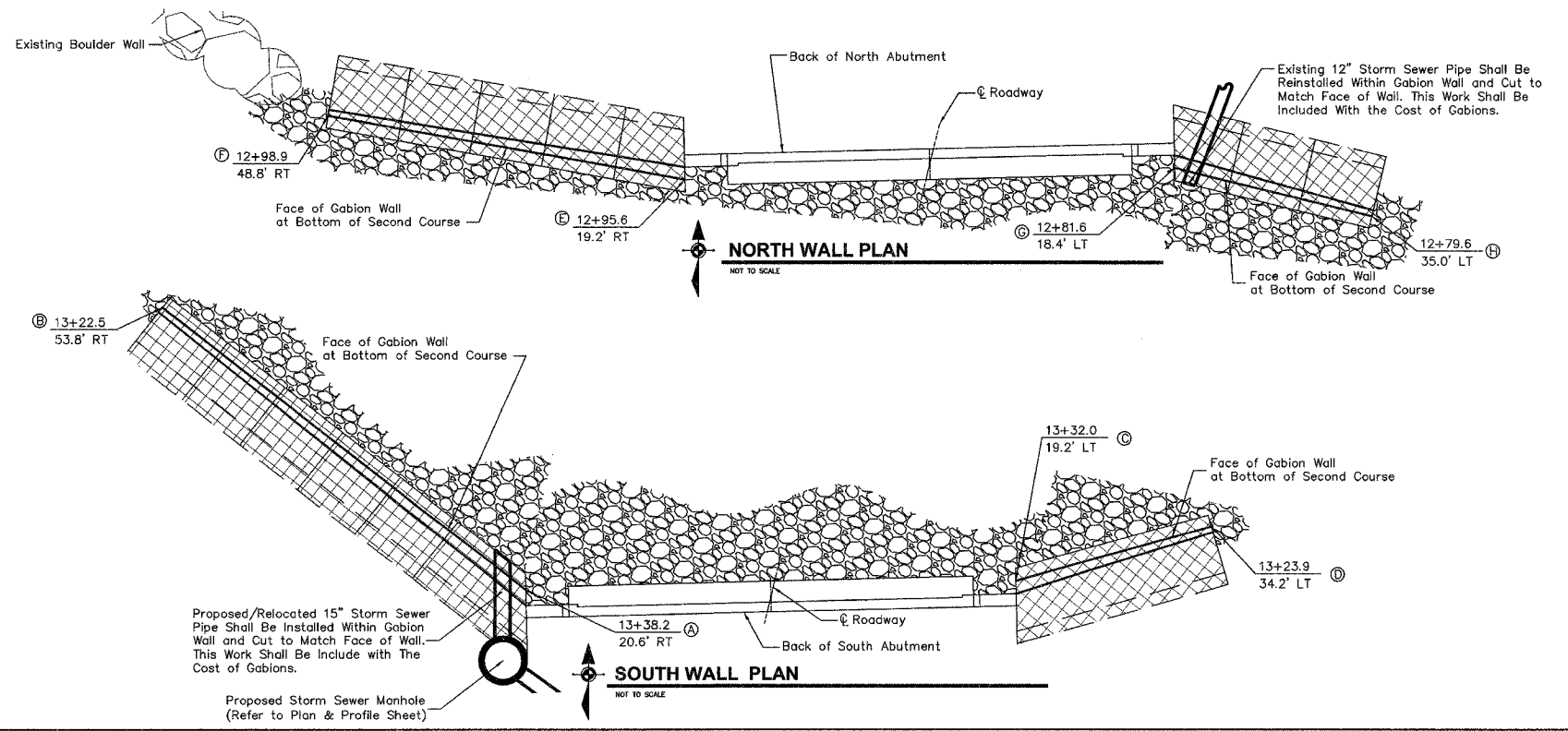
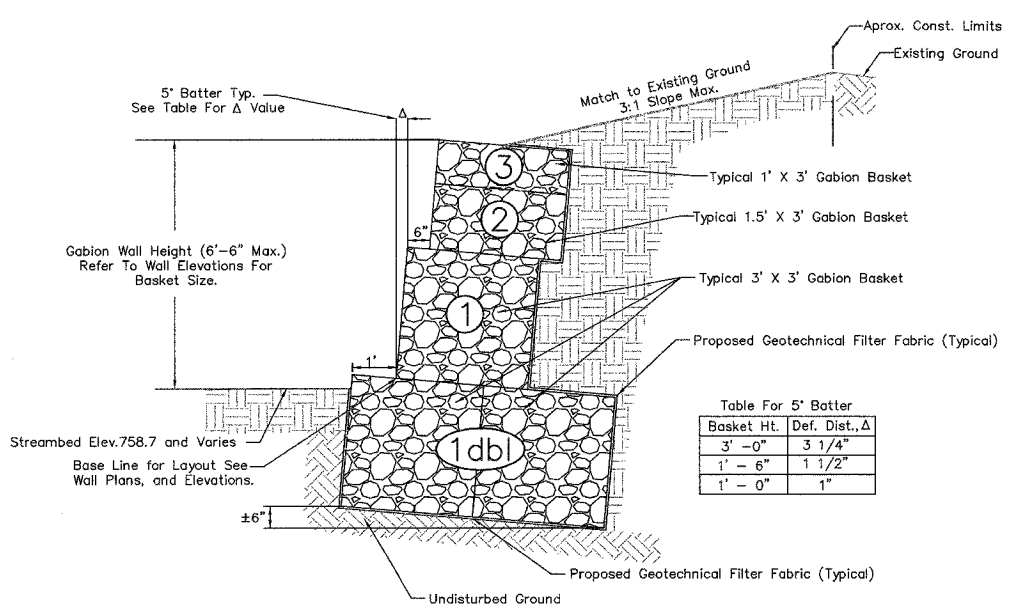
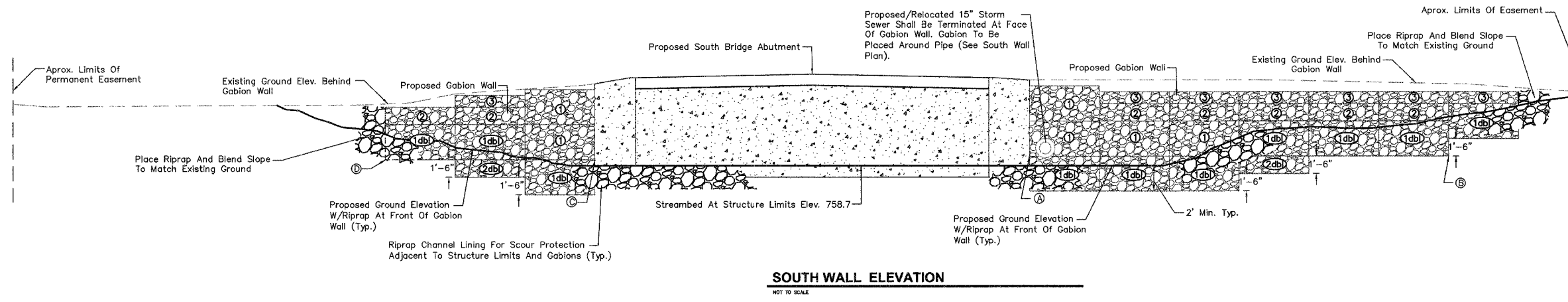
Unit No.	Basket Size (HxWxL)	BASKET VOL. (C.Y.)
①	3' x 3' x 6'	2.0
②	1.5' x 3' x 6'	1.0
③	1' x 3' x 6'	0.7

Basket No. followed by "dbl" shall denote two (2) baskets of the size specified for that layer. Refer to Typical Gabion Wall Section.

- GABION WALL NOTES:**
- Contact McClure Engineering 48 hrs. prior to starting Gabion Wall Construction.
 - Gabions and Riprap shall be installed in accordance with Section 201 & Section 284 of the IDOT Standard Specification for Road and Bridge Construction.
 - Contractor shall provide a uniform base of compacted, undisturbed ground or granular material for the Gabion foundation capable of supporting 1500 psf. Top of foundation shall be a minimum of 2'-0" below streambed/ground elevation. This work shall be included with the cost of Gabions.

GABION QUANTITIES

Item	Unit	Qty.
Earth Excavation	C.Y.	138
Filter Fabric	S.Y.	205
Gabions (Total)	C.Y.	124.7
50 - 3'x3'x6' Gabion Basket	C.Y.	100
17 - 1.5'x3'x6' Gabion Basket	C.Y.	17
11 - 1'x3'x6' Gabion Basket	C.Y.	7.7



G:\04-059 BROOKVIEW SPC\DESIGN\DRAWINGS\DETAILS.dwg, detailspage2, 3/10/2008 4:40:41 PM, C:\B, 1:1

SHEET REVIEW

AGENCY	DATE

REVISIONS

NO.	ITEM	DATE
1	IDOT Review Comments	3/7/2008

SCALE: 1" = 1'
DRAWN BY: PLH
CHECKED BY:
DATE: January 15, 2008

McClure Engineering Associates, Inc.
7282 Argus Drive, Rockford, Illinois 61107-5837
(815) 398-2332, Design Firm License: Illinois 184-000816
Copyright 2008 By McClure Engineering Associates, Inc.

WALL ELEVATIONS
BROOKVIEW ROAD STRUCTURE
BROOKVIEW ROAD/SPRING CREEK, ROCKFORD, ILLINOIS
FILE: G:\04-059 BROOKVIEW SPC\DESIGN\DRAWINGS\DETAILS.DWG JOB: 04-30-04-059

SHEET NO. 14 OF 15

ROUTE NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
TR 0683E	04-09116 -00-BR	WINNEBAGO	15	15
ILLINOIS FED. AID PROJECT-				

INLET SPECIAL

NOTES

SEE STANDARD 602701 FOR DETAILS OF STEPS. EXCEPT AS NOTED HEREON INLET SPECIAL SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 602 OF THE STANDARD SPECIFICATIONS.

THE SIDE WALLS MAY BE BUILT AS PRECAST SEGMENTED SECTIONS.

ALL VOIDS AROUND PIPE ENTRANCE, BOTH INSIDE AND OUTSIDE, SHALL BE SEALED WITH MORTAR.

WEIGHT OF CAST IRON FRAME & GRATE = 240 kg (530 lbs.) ±. STEPS SHALL BE OMITTED WHEN DEPTH OF "H" IS LESS THAN 1.5 m (5 ft.).

DETAIL OF FRAME & GRATE

NOTES

CLASS 51 CONCRETE OR PRECAST CONCRETE SHALL BE USED THROUGHOUT. PRECAST CONCRETE SHALL BE IN ACCORDANCE WITH SECTION 604.02 AND 54.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT CONCRETE STRENGTH SHALL BE 27.5 MPa (4,000 psi) AFTER 28 DAYS.

THE CONTRACT UNIT PRICE EACH FOR INLET SPECIAL SHALL INCLUDE THE COST OF CONSTRUCTING THE INLET BOX, FURNISHING AND INSTALLING THE FRAME AND GRATE, THE CAST IRON STEPS (IF USED), THE PRECAST FLOOR SLABS, SAND CUSHION (WHEN USED) AND REINFORCEMENT BARS.

* THIS GRATE TO BE USED WITHOUT CURB BOX WHEN INLET IS IN DRIVEWAY.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS
REVISION	01-20-04		REGION 2 / DISTRICT 2 STANDARD		
REVISION					
REVISION					
REVISION					

SCALE: 1/8" = 1'-0" (VERTICAL) 1/4" = 1'-0" (HORIZONTAL)

INLET SPECIAL 10.2

FRAME AND GRATE FOR INLET SPECIAL

PLAN OF FRAME WITHOUT GRATE AND CURB BOX

TRANSVERSE SECTION

LONGITUDINAL SECTION

PLAN OF GRATE

SECTION A-A

SECTION B-B

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.

R 3246 APPROXIMATE WEIGHT - 225 Kg (495 LBS.)

REVISION	DATE	BY	SECTION	COUNTY	TOTAL SHEETS
REVISION	01-20-04		REGION 2 / DISTRICT 2 STANDARD		
REVISION					
REVISION					
REVISION					

SCALE: 1/8" = 1'-0" (VERTICAL) 1/4" = 1'-0" (HORIZONTAL)

FRAME AND GRATE FOR INLET SPECIAL 13.2

COMBINATION CONCRETE CURB AND GUTTER - M-6.18 (MODIFIED)

NOT TO SCALE

* 9" THICKNESS REQUIRED WHEN ADJACENT TO FLEXIBLE PAVEMENT.

EXPANSION JOINTS AT 200' INTERVALS AND AT CONSTRUCTION JOINTS INCLUDING 1" PREMOULDED JOINT FILLER AND 1" SMOOTH DOWELS (2). CONTRACTION JOINTS AT 25' INTERVALS.

Riprap Class	t _R	t _B	A	B
A4	16"	6"	2' - 8"	4' - 0"
A5	22"	8"	3' - 8"	5' - 6"
A6	26"	10"	4' - 4"	6' - 6"
A7	30"	12"	5' - 0"	7' - 6"

SECTION AT ABUTMENT SHOWING DRAIN AND RIPRAP

NOT TO SCALE

Precast Prestressed Concrete Deck Beams (11" Depth)

Aggregate and Hot-Mix Asphalt

3" # Drains, ±6'-0" cts. With Cubical Coarse Aggregate Deposit, Approx. 18" Above Streambed Elev. per Article 503.11 (Typ.). This work shall be include with Concrete Structures.

Streambed Elev. 758.7

Stone Riprap

Bedding

Filter Fabric

Geotechnical Fabric

FLANK STONE RIPRAP TREATMENT STREAM CROSSING

NOT TO SCALE

Stone RR Class A5

Bedding

Filter Fabric

G:\04-059 BROOKVIEW SPC\DESIGN\DRAWINGS\DETAILS.dwg, details Page 1, 3/10/2008 4:44:19 PM, C.TB., 1:1

<p>SHEET REVIEW</p> <table border="1"> <tr> <th>AGENCY</th> <th>DATE</th> </tr> <tr> <td> </td> <td> </td> </tr> </table>	AGENCY	DATE			<p>REVISIONS</p> <table border="1"> <tr> <th>NO.</th> <th>ITEM</th> <th>DATE</th> </tr> <tr> <td>1</td> <td>IDOT Review Comments</td> <td>3/7/2008</td> </tr> </table>	NO.	ITEM	DATE	1	IDOT Review Comments	3/7/2008	<p>SCALE: 1" = 1'</p> <p>DRAWN BY: PLH</p> <p>CHECKED BY:</p> <p>DATE: January 16, 2008</p>	<p>7282 Argus Drive Rockford, Illinois 61107-5837 (815) 398-2332 FAX (815) 398-2496 Design Firm License: Illinois 164-000616 Copyright 2008 By McClure Engineering Associates, Inc.</p>	<p>STANDARDS AND DETAILS</p> <p>BROOKVIEW ROAD STRUCTURE</p> <p>BROOKVIEW ROAD/SPRING CREEK ROCKFORD, ILLINOIS</p> <p>FILE: G:\04-059 BROOKVIEW SPC\DESIGN\DRAWINGS\DETAILS.DWG JOB: 04-30-04-059</p>	<p>SHEET NO.</p> <p>15</p> <p>OF</p> <p>15</p>
AGENCY	DATE														
NO.	ITEM	DATE													
1	IDOT Review Comments	3/7/2008													