

0006-670

PROJECT ENGINEER: PATTI LEBEAU (618)346-3179  
SQUAD LEADER: TIFFANY BRASE (618)346-3329

129

3-5-0X  
95%  
5-28-2005

Randolph sec. 119-1BR-I I & R #28

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS  
**PROPOSED  
HIGHWAY PLANS**  
UNMARKED ROUTE  
SECTION 119-1BR-I  
PROJECT NHCB-00D8(097)  
RANDOLPH COUNTY

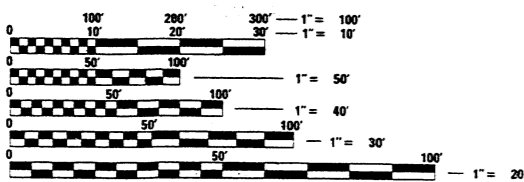
FAP ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119-1BR		RANDOLPH	34	1

\* UNMARKED  
PROJECT NHCB-00D8(097)

- INDEX OF SHEETS**
- 1 - COVER SHEET
  - 2 - SUMMARY OF QUANTITIES & GENERAL NOTES
  - 3 - PROJECT SITE PLAN
  - 4 - TYPICAL SECTIONS, SCHEDULES & DETAILS
  - 5 - PLAN & PROFILE
  - 6 - EROSION CONTROL
  - 7 & 8 - CROSS SECTIONS
  - 9 & 10 - GENERAL PLAN & ELEVATION
  - 11 - DECK PLAN
  - 12 - STRUCTURAL STEEL
  - 13 - BEARING DETAILS
  - 14 - ANCHOR BOLT DETAILS
  - 15 - STRUCTURAL STEEL REMOVAL
  - 16 - TRUSS REPAIR DETAILS
  - 17 & 18 - ROOF AND SIDING DETAILS
  - 19 - ABUTMENT REMOVAL DETAILS
  - 20 & 21 - SOUTH ABUTMENT
  - 22 & 23 - NORTH ABUTMENT
  - 24 - BORINGS
  - 25 - 28 - ELECTRICAL DISTRIBUTION SYSTEM
  - 29 - 34 - FIRE PROTECTION SYSTEM

- IDOT STANDARDS**
- 280001-02
  - 542401
  - 602301
  - 604036-01
  - 701001
  - 702001-03

MICROFILMED \_\_\_\_\_  
REEL NUMBER \_\_\_\_\_  
AWARDED \_\_\_\_\_  
RESIDENT ENGINEER \_\_\_\_\_  
AS BUILT CHANGES WERE MADE  
ON THE FOLLOWING SHEETS \_\_\_\_\_

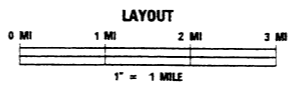
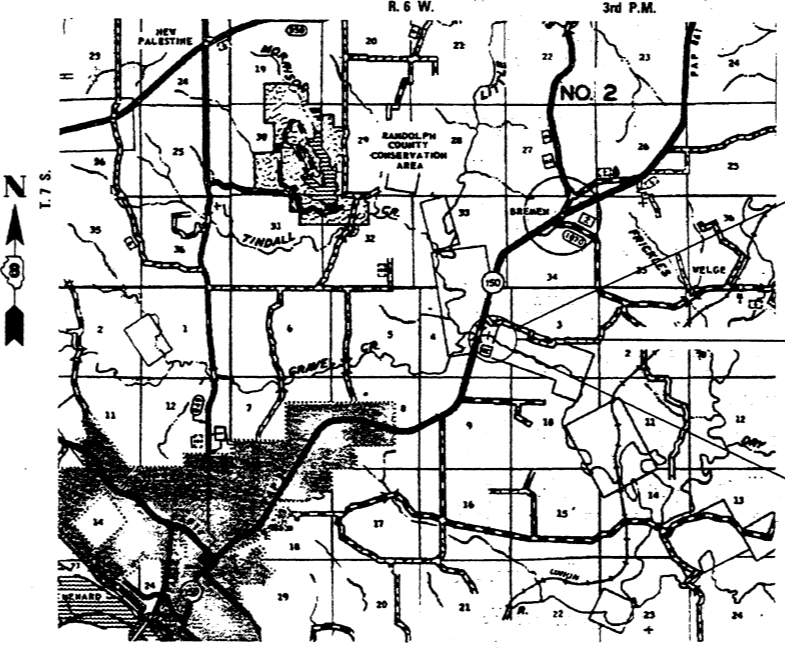


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 76602

C-98-021-04  
**COVERED BRIDGE REHABILITATION**



PROPOSED PROJECT ENDS  
STA. 11+45.00

EXISTING COVERED BRIDGE, S.N. 079-9000  
TO BE REHABILITATED. (EXISTING STRUCTURE TO BE SHORED AND RAISED ABOVE THE 50 YEAR HIGH WATER ELEVATION. EXISTING SUBSTRUCTURE TO BE MODIFIED AND RAISED. NEW EARTH APPROACHES TO BE CONSTRUCTED.)

PROPOSED PROJECT BEGINS  
STA. 8+75.00

EXPIRATION DATE: 11/30/03

GROSS LENGTH = 270.00 FEET = 0.051 MILES  
NET LENGTH = 270.00 FEET = 0.051 MILES



STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED Oct 22 20 03  
Mary Lurie  
DISTRICT ENGINEER

December 5 20 03  
Michael J. Blum  
ENGINEER OF DESIGN AND ENVIRONMENT

December 5 20 03  
Theresa A. Miller  
DIRECTOR, DIVISION OF HIGHWAYS

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

079-9000

9-181

SUMMARY OF QUANTITIES					80% FED. 20% STATE	
CODE NO.	ITEM	UNIT	QUANTITY	TOTAL	RURAL - RANDOLPH COUNTY	
					CONSTRUCTION TYPE CODE	
					Y044	X002
					ROADWAY	STRUCTURE
X0324193	JACKING AND SHORING EXISTING BRIDGE	L. SUM		1		1
X0324194	REMOVE AND REPLACE CEDAR SHINGLES	SQ. FT.		2710		2710
X0324195	REMOVAL OF EXISTING SIDING	SQ. FT.		3208		3208
X0324196	LIMESTONE MASONRY	CU. YD.		60.3		60.3
X0324197	PAINTING TIMBER STRUCTURE	SQ. FT.		3910		3910
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT		84	84	
20400800	FURNISHED EXCAVATION	CU. YD.		716	716	
25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE		0.6	0.6	
25100630	EROSION CONTROL BLANKET	SQ. YD.		840	840	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND		100	100	
28000300	TEMPORARY DITCH CHECKS	EACH		3	3	
28000400	PERIMETER EROSION BARRIER	FOOT	Δ	278	278	
28100209	STONE RIPRAP, CLASS A5	TON		1733		1733
28200100	FILTER FABRIC FOR USE WITH RIPRAP	SQ. YD.		1387	1387	
35100500	AGGREGATE BASE COURSE, TYPE A 6"	SQ. YD.		378	378	
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON		142	142	
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON		228	228	
40300500	COVER COAT AGGREGATE	TON		4	4	
40400800	SEAL COAT AGGREGATE	TON		4	4	
50102400	CONCRETE REMOVAL	CU. YD.		3.2		3.2
50102700	MASONRY REMOVAL	CU. YD.		7.1		7.1
50105100	REMOVAL OF EXISTING TIMBER FLOOR	EACH		1		1
50300225	CONCRETE STRUCTURES	CU. YD.		49.2		49.2
50300320	ELASTOMERIC BEARING ASSEMBLY, TYPE II	EACH		4		4
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L. SUM		1		1
50501110	STRUCTURAL STEEL REMOVAL	POUND		2790		2790
50700105	TREATED TIMBER	F.B.M.		5386		5386
50700205	UNTREATED TIMBER	F.B.M.		13388		13388
50700305	HARDWARE	POUND		7390		7390
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND		3910		3910
54215559	METAL END SECTIONS 24"	EACH		1	1	
54200229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT		38	38	
58700200	BRIDGE SEAT SEALER	SQ. FT.		183		183
60239400	INLETS, TYPE A, SPECIAL, TYPE 8 GRATE	EACH		1	1	
63400105	GUARD POSTS	EACH		24	24	
63400205	GUARD POSTS REMOVAL	EACH		17	17	
67000400	ENGINEERS FIELD OFFICE, TYPE A	CAL. MO.		6	6	
67100100	MOBILIZATION	L. SUM		1	1	
70103700	TRAFFIC CONTROL COMPLETE	L. SUM		1	1	
72400330	REMOVE SIGN PANEL-TYPE 3	SQ. FT.		24	24	
72400730	RELOCATE SIGN PANEL-TYPE 3	SQ. FT.		24	24	
* 80400105	ELECTRIC SERVICE INSTALLATION (SPECIAL)	EACH		1	1	

SUMMARY OF QUANTITIES					80% FED. 20% STATE	
CODE NO.	ITEM	UNIT	QUANTITY	TOTAL	RURAL - RANDOLPH COUNTY	
					CONSTRUCTION TYPE CODE	
					Y044	X002
					ROADWAY	STRUCTURE
* X0300188	WATER SERVICE CONNECTION	L. SUM		1		1
X0321600	FORM LINER TEXTURED SURFACE	SQ. FT.		177		177
X0322001	TUCKPOINTING MASONRY JOINTS	FOOT		480		480
* X0322283	VIDEO SURVEILLANCE SYSTEM COMPLETE	EACH		1	1	
* X0323607	FIRE PROTECTION SYSTEM	L. SUM		1	1	
* X0323608	FIRE ALARM SYSTEM	L. SUM		1	1	
X0323609	MECHANICAL BUILDING STRUCTURE	L. SUM		1	1	
* X0323610	ELECTRICAL DISTRIBUTION SYSTEM	L. SUM		1	1	
X0323700	REMOVE AND RELOCATE PICNIC TABLES	EACH		1	1	
* X8011010	TELEPHONE SERVICE INSTALLATION	L. SUM		1	1	

\* SPECIALTY ITEM

GENERAL NOTES

EXCEPT AS NOTED IN THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF PAVEMENT SURFACES.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR WILL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

ALL SAW CUTTING OF THE EXISTING PAVEMENT SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.

ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING BY CALLING J.U.L.I.E. AND BY NOTIFYING NON-JULIE MEMBERS INDIVIDUALLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- \*CHARTER COMMUNICATIONS, INC.  
317 WEST MAIN STREET  
BELLEVILLE, IL 62220
- \*VERIZON NORTH, INC.  
SOUTHERN DIVISION  
111 E. STATE STREET  
MASCOUTAH, IL 62258
- \*ILLINOIS POWER COMPANY  
1010 N. MARKET STREET  
P.O. BOX 218  
SPARTA, IL 62286-0218
- \*VILLAGE OF CHESTER  
1330 SWANWICK STREET  
CHESTER, IL 62233

(MEMBERS OF J.U.L.I.E. (800)892-0123 ARE INDICATED BY \* NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.)

THE STANDARD AND REVISION NUMBERS SHALL APPLY TO THIS PROJECT.

THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

THE CONTRACTOR SHALL FURNISH AND INSTALL WOOD SIGN SUPPORTS IN ACCORDANCE WITH SECTION 730 OF THE STANDARD SPECIFICATIONS; HOWEVER, INSTALLATION BY METHOD "A" (ARTICLE 730.04(g)) SHALL BE THE ONLY METHOD PERMITTED.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED TO CALCULATE THE PLAN QUANTITIES OR SHOULD BE APPLIED AT THIS RATE IF INCLUDED IN A PLAN QUANTITY:

BITUMINOUS MATERIALS (PRIME COAT)	0.375 GALLON/SQ. YD. (ON AGG.)
AGGREGATE MATERIAL	2.05 TON/CU. YD.
RIPRAP	1.75 TON/CU. YD.
AGRICULTURAL GROUND LIMESTONE	2.0 TON/ACRE
AGGREGATE PRIME COAT	0.002 TON/SQ. YD.
BITUMINOUS MATERIALS (COVER AND SEAL COATS)	0.30 GALLON/SQ. YD.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	2
STA. 8+75 TO STA. 11+45				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* UNMARKED 76602				

SUMMARY OF QUANTITIES & GENERAL NOTES  
UNMARKED ROUTE OVER LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
RANDOLPH COUNTY

Δ REVISED 2-23-04

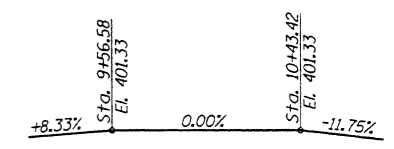
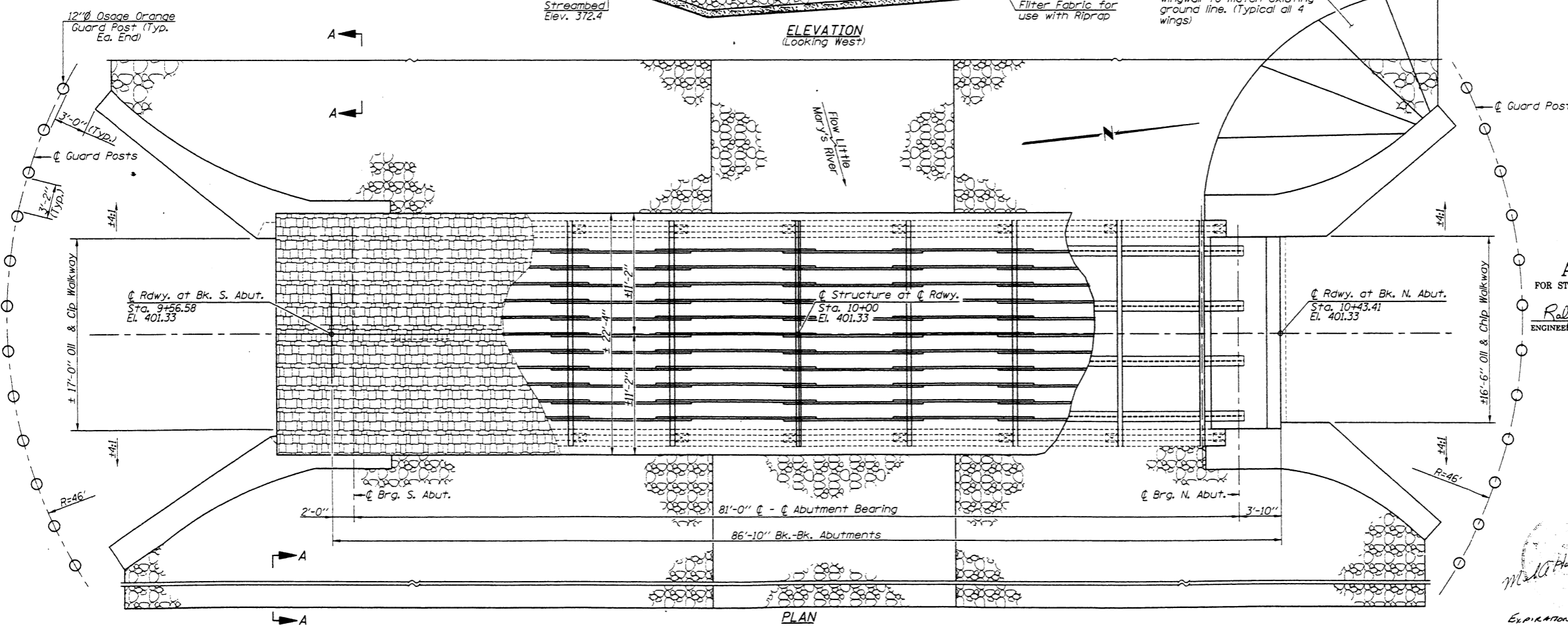
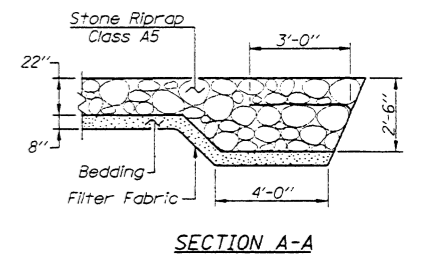
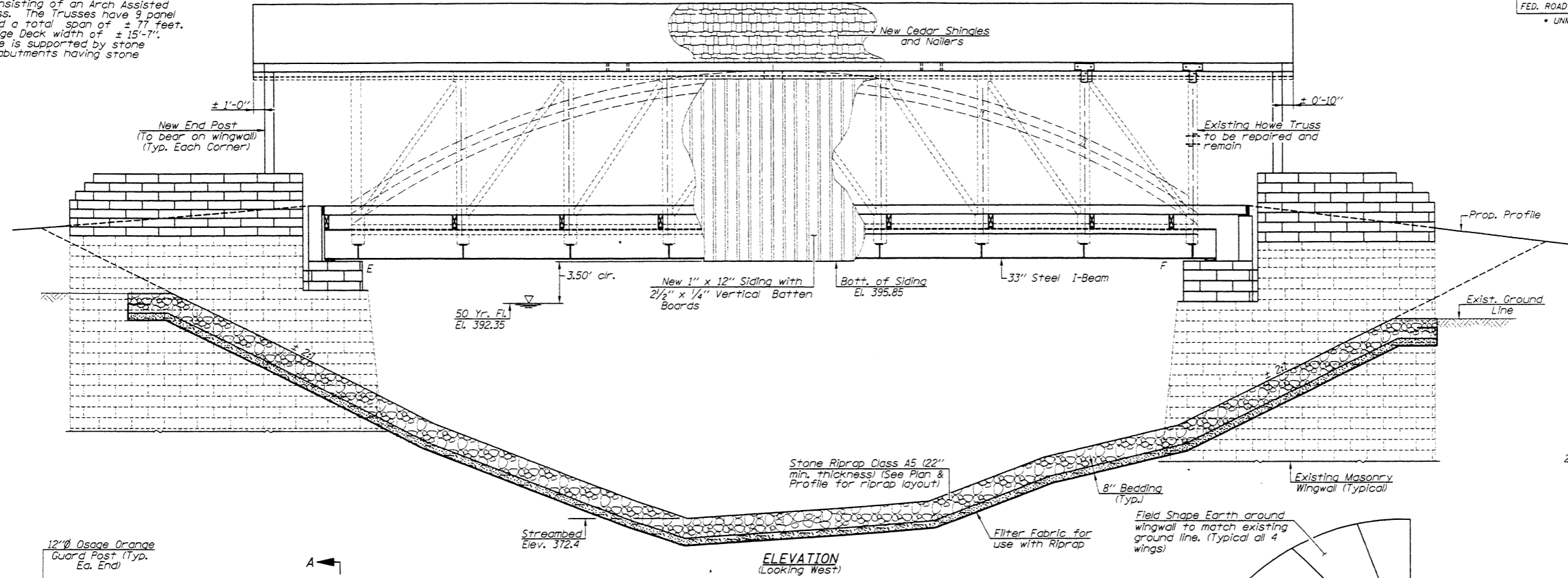


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

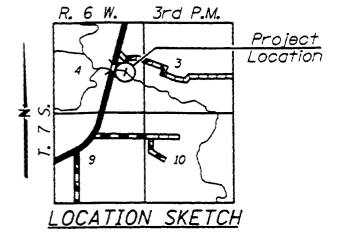
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119-1BR		RANDOLPH	34	9
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
UNMARKED				

SHEET NO. 1  
OF 16 SHEETS

BM #10A - 60d Nail & Washer in Wood Light Pole  
14' Rt. Sta. 9+15 El. 396.32  
Existing Structure: Wood Covered Truss Bridge consisting of an Arch Assisted Howe Truss. The Trusses have 9 panel points and a total span of ± 77 feet. Clear Bridge Deck width of ± 15'-7". The Bridge is supported by stone masonry abutments having stone wingwalls.



APPROVED  
FOR STRUCTURAL ADEQUACY ONLY  
*Ralph E. Anderson*  
ENGINEER OF BRIDGES AND STRUCTURES



GENERAL PLAN & ELEVATION  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

**SUGGESTED SEQUENCE OF CONSTRUCTION**

1. Remove and dispose of existing siding.
2. Reposition and secure all top chord truss bracing. Replace damaged bracing and provide new bracing where existing bracing is missing.
3. Remove roof from existing structure. Dispose of all existing shingles and any nailers deemed not fit for re-use as directed by the Engineer. Store roof rafters for re-use as condition allows.
4. Provide temporary shoring for existing structure. Jack existing trusses to remove sag. Where jacking of the existing structure is required to remove sag, a system of flat jacks shall be used to provide for simultaneous jacking and uniform adjustments. The structure may be lifted and stored at an on site work area at the contractor's option. Support structure at each lower chord panel point. Temporary shoring design shall be the responsibility of the contractor, shall be sealed by an Illinois licensed structural engineer, and shall be approved by the Illinois Department of Transportation or their representative.
5. Remove existing steel hangers and bottom chord channels from existing trusses. Remove floor beams, floor stringers and decking as shown on the plans. Replace damaged and deteriorated truss members as shown on the plans and as directed by the Engineer. Rigidly connect all truss members.
6. Place new floor beams, floor joists and decking as shown on the plans. Reconnect existing floor beam cross bracing in a manner similar to the existing connections.
7. Reposition existing knee braces and provide new knee braces at each truss vertical member as shown on the plans. Complete this work in a manner that will leave trusses in a plumb position.
8. Tuck point the existing masonry abutment mortar joints according to the Special Provisions and as directed by the Engineer.
9. Using the temporary shoring, raise the structure a sufficient amount that will allow the placement of the new concrete abutments caps and new steel superstructure. At the Contractor's option, the structure may be lifted and stored at the on-site work area shown on the Site Plan.
10. Pour new concrete abutment caps.
11. Place new steel superstructure onto the concrete abutments caps.
12. Lower the existing structure and place on the new steel superstructure. Shim as required to provide proper vertical alignment.
13. Provide new roof. Use existing roof rafters and nailers as condition permits. Provide new cedar shingles.
14. Raise wingwalls to elevations shown on plans using limestone masonry of the same color and shape as existing stone masonry. (See Special Provisions.)
15. Place new 1x12 siding with vertical batten boards. Vertical Siding and batten boards shall be continuous full height of structure. Paint siding with two coats of latex paint according to the Special Provision for Painting Timber Structure.
16. Place riprap at locations shown on the plans.

**TOTAL BILL OF MATERIAL**

Item	Unit	Super	Sub	Total
Concrete Structures	Cu. Yd.		49.2	49.2
Elastomeric Bearing Assembly, Type II	Each	4		4
Reinforcement Bars, Epoxy Coated	Pound		3910	3910
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stone Riprap, Class A5	Ton			1183
Filter Fabric For Use With Riprap	Sq. Yd.			1387
Remove and Replace Cedar Shingles	Sq. Ft.	2710		2710
Treated Timber	F.B.M.	5386		5386
Untreated Timber	F.B.M.	13388		13388
Jacking and Shoring Existing Bridge	L. Sum	1		1
Hardware	Pound	7390		7390
Remove Existing Timber Siding	Sq. Ft.	3208		3208
Bridge Seat Sealer	Sq. Ft.		183	183
Concrete Removal	Cu. Yd.		3.2	3.2
Tuckpointing Masonry Joints	Foot		480	480
Limestone Masonry	Cu. Yd.	60.3		60.3
Structural Steel Removal	Pound	2790		2790
Masonry Removal	Cu. Yd.		7.1	7.1
Removal of Existing Timber Floor	Each	1		1
Form Liner Textured Surface	Sq. Ft.		177	177
Painting Timber Structure	Sq. Ft.		3910	3910

**WATERWAY INFORMATION**

Drainage Area = 66.44 sq. mi.		Low Grade Elev. = N.A.		Sta. N.A.					
Flood	Freq. Yr.	0 C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Erosion	10	6028	966.5	967.0	391.14	1.44	1.38	392.58	392.52
Design	50	9126	983.7	1055.7	392.35	2.23	2.17	394.58	394.52
Base	100	10439	983.7	1084.6	392.75	2.49	2.43	395.24	395.18
Overtopping	NA	NA	NA	NA	NA	NA	NA	NA	NA
Max. Calc.	500	NA	NA	NA	NA	NA	NA	NA	NA

**DESIGN SPECIFICATIONS**

2002 A.A.S.H.T.O. Specifications with 2003 Interim Specifications.  
Illinois Accessibility Code 1997.  
A.A.S.H.T.O. Guide Specifications for Design of Pedestrian Bridges.

**LOADING**

Pedestrian - 85 p.s.f. (Reducible per A.A.S.H.T.O.)  
Alternate H5 Truck Load  
Roof Snow Load: 20 p.s.f.  
Roof Live Load: 30 p.s.f. Maximum DL+LL deflection = L/240  
Wind Speed: 70 m.p.h.

**DESIGN STRESSES**

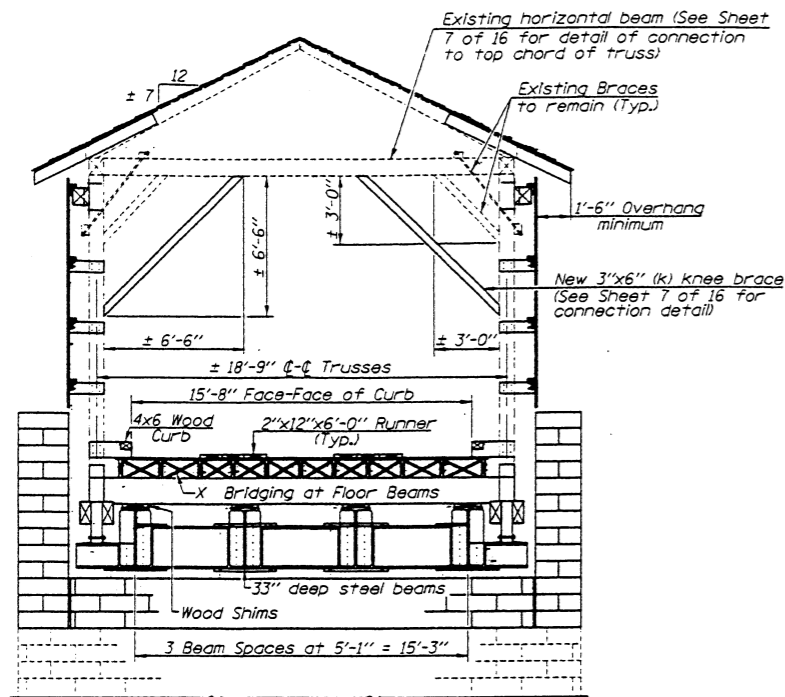
f<sub>c</sub> = 3500 p.s.i.  
f<sub>y</sub> = 60000 p.s.i. (Reinforcement)  
F<sub>y</sub> = 36000 p.s.i. (Structural Steel M270 Gr. 36)  
F<sub>b</sub> = 1050 p.s.i. (Red Oak No. 2 2" to 4" thick, 5" and wider and siding)  
F<sub>b</sub> = 725 p.s.i. (Red Oak No. 2, Beams and Stringers)  
Masonry Mortar: ASTM C270, Type O, (350 p.s.i.) (Tuckpointing)  
ASTM C270, Type N

**SEISMIC DATA**

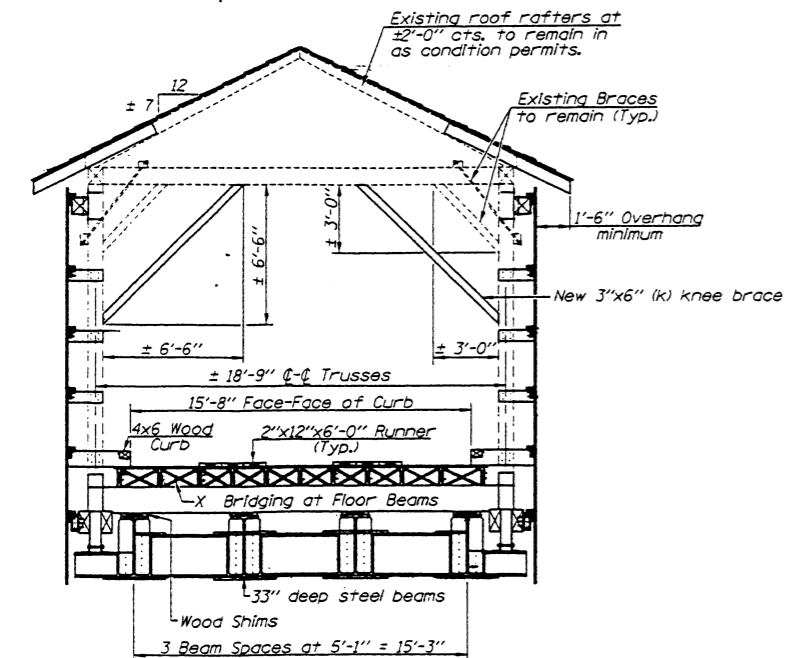
Seismic Performance Category = B  
Bedrock Acceleration Coefficient = 13%g  
Site Coefficient = 1.0

GENERAL PLAN & ELEVATION  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

REVISED  
2.23.04



CROSS SECTION THROUGH REHABILITATED BRIDGE  
(At Abutments)



CROSS SECTION THROUGH REHABILITATED BRIDGE  
(Near Midspan)

**GENERAL NOTES**

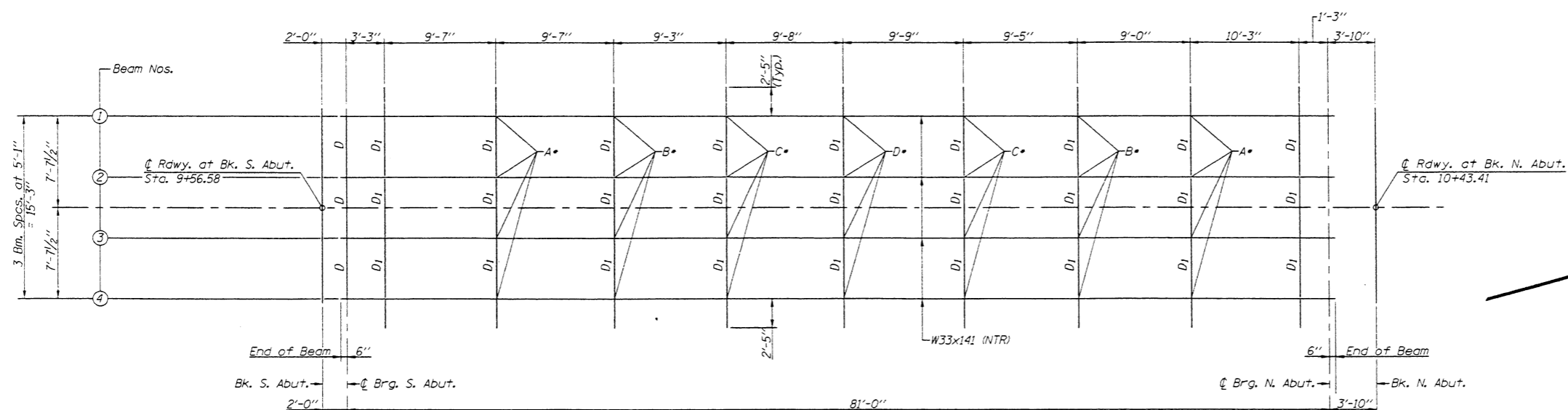
Fasteners shall be high strength bolts. Bolts 7/8" Ø, open holes 15/16" Ø, unless noted otherwise.  
Calculated weight of Structural Steel = 61700 lbs. (M270 Gr. 36)  
Field welding of construction accessories will not be permitted to beams.  
Anchor bolts shall be set before bolting diaphragms over supports.  
The main load carrying member components subject to tensile stress shall conform to the Supplemental Requirements for Notch Toughness Zone 2. These components are the wide flange beams.  
Reinforcement bars shall conform to the requirements of A.A.S.H.T.O. M-31, M-42 or M-53 Grade 60.  
Layout of slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.  
Plan dimensions and details relative to the existing structure have been taken from the existing plans and are subject to nominal construction variances. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.  
The inorganic zinc rich primer/Acrylic/Acrylic Paint System shall be used for shop and field painting of new structural steel and all hardware except where otherwise noted. The color of the final finish coat for all steel surfaces shall be pale brown, Munsell No. 7.5YR4/2. The finish coat shall have a semi-gloss finish. See Special Provisions for "Cleaning and Painting New Metal Structures".  
Bridge Seat Sealer shall be applied to the seat area of both abutments.  
All construction joints shall be bonded.  
The contractor shall pre-drill holes where required for driving nails. The cost of pre-drilling holes will be included with "Hardware".





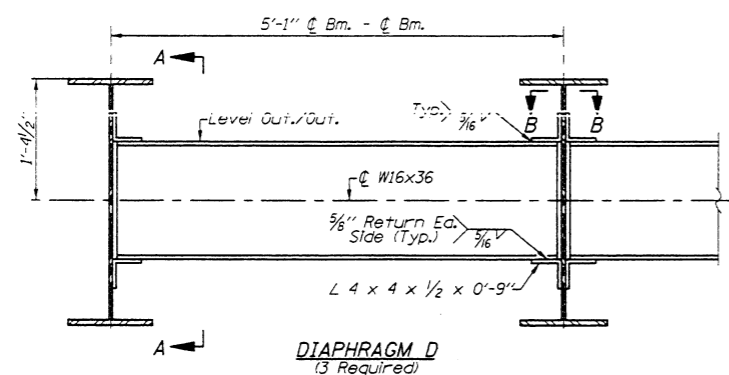
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	12
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
	• UNMARKED			

SHEET NO. 4  
OF 16 SHEETS

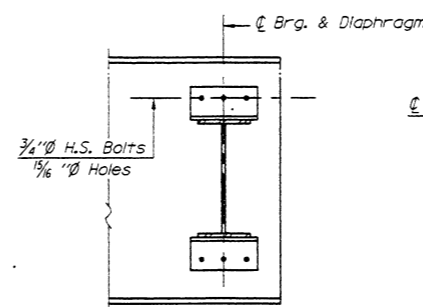


**FRAMING PLAN**

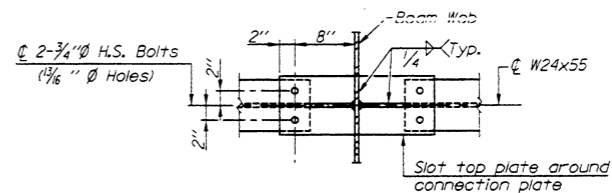
• See Shim Plate Table



**DIAPHRAGM D**  
(3 Required)



**SECTION A-A**



**SECTION D-D**

SHIM PLATE TABLE		
LOCATION	THICKNESS	SIZE
A	1/4"	6"x12"
B	1/4"	6"x12"
C	2 3/8"	6"x12"
D	2/2"	6"x12"

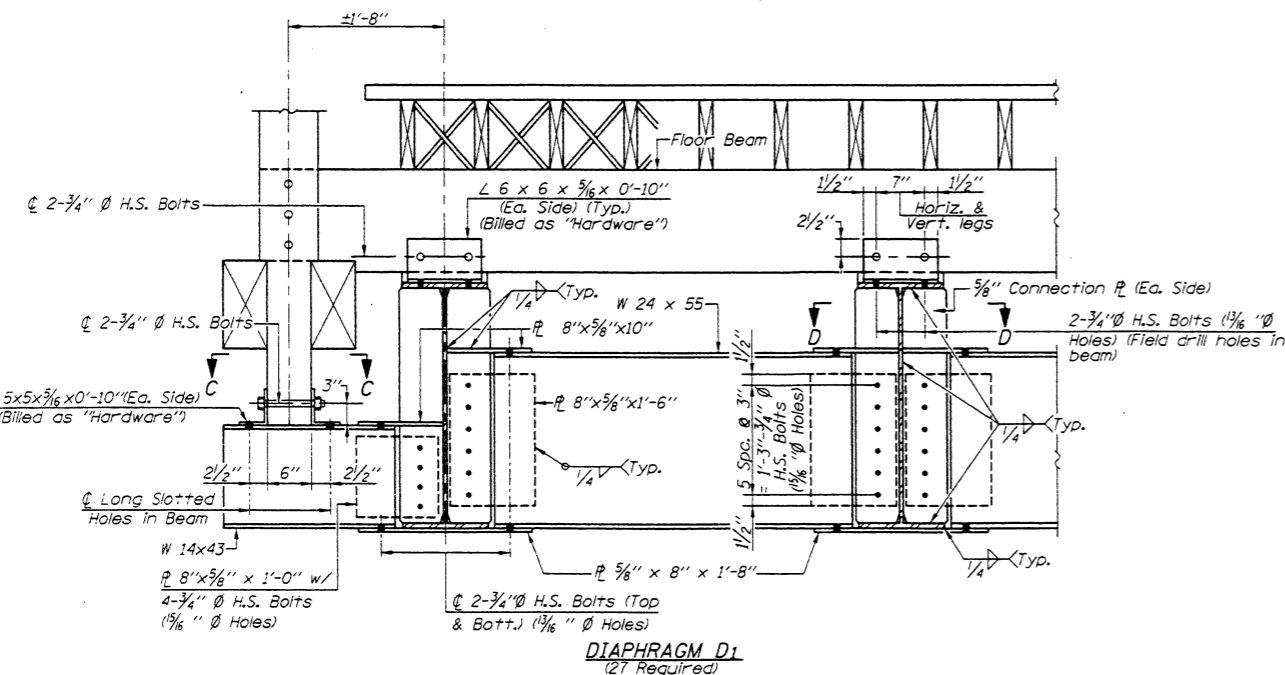
Note: Hardwood shim plates quantity included with bid item "Treated Timber".

INTERIOR BEAM MOMENT TABLE	
0.5 PT SIMPLE SPAN	
I (in <sup>4</sup> )	7450
Q (K/ft <sup>2</sup> ) •	498
M <sub>R</sub> (Ft-k)	408
M <sub>LL</sub> (Ft-k)	259
Imp (Ft-k)	0
f <sub>s</sub> (Ksi)	17.9

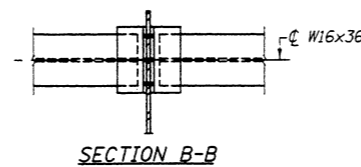
INTERIOR BEAM REACTION TABLE	
R <sub>R</sub> (K)	20.9
R <sub>LL</sub> (K)	13.5
Imp (K)	0
R Total	34.4

I is the moment of inertia of the steel section used in computing f<sub>s</sub>.

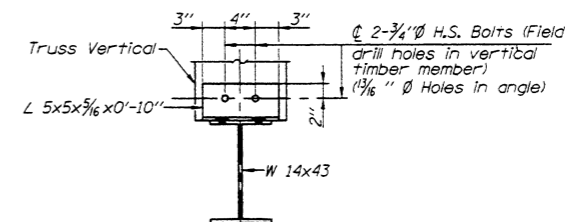
• M<sub>R</sub> is computed using a series of point loads located at the truss panel points. Q is the equivalent uniform load required to produce M<sub>R</sub> as shown in the table.



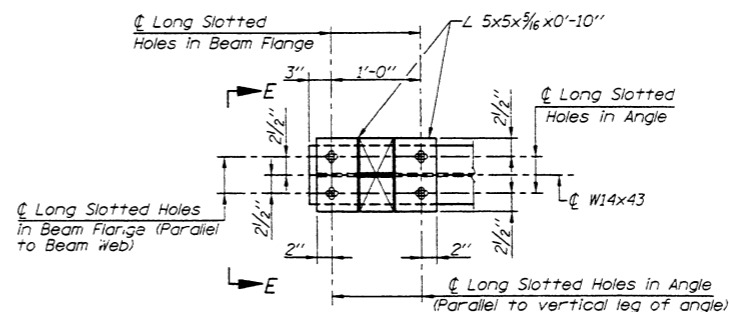
**DIAPHRAGM D1**  
(27 Required)



**SECTION B-B**



**SECTION E-E**



**SECTION C-C**

**STRUCTURAL STEEL**  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

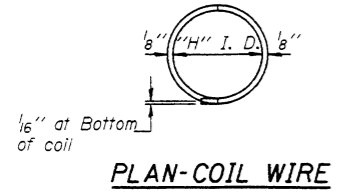
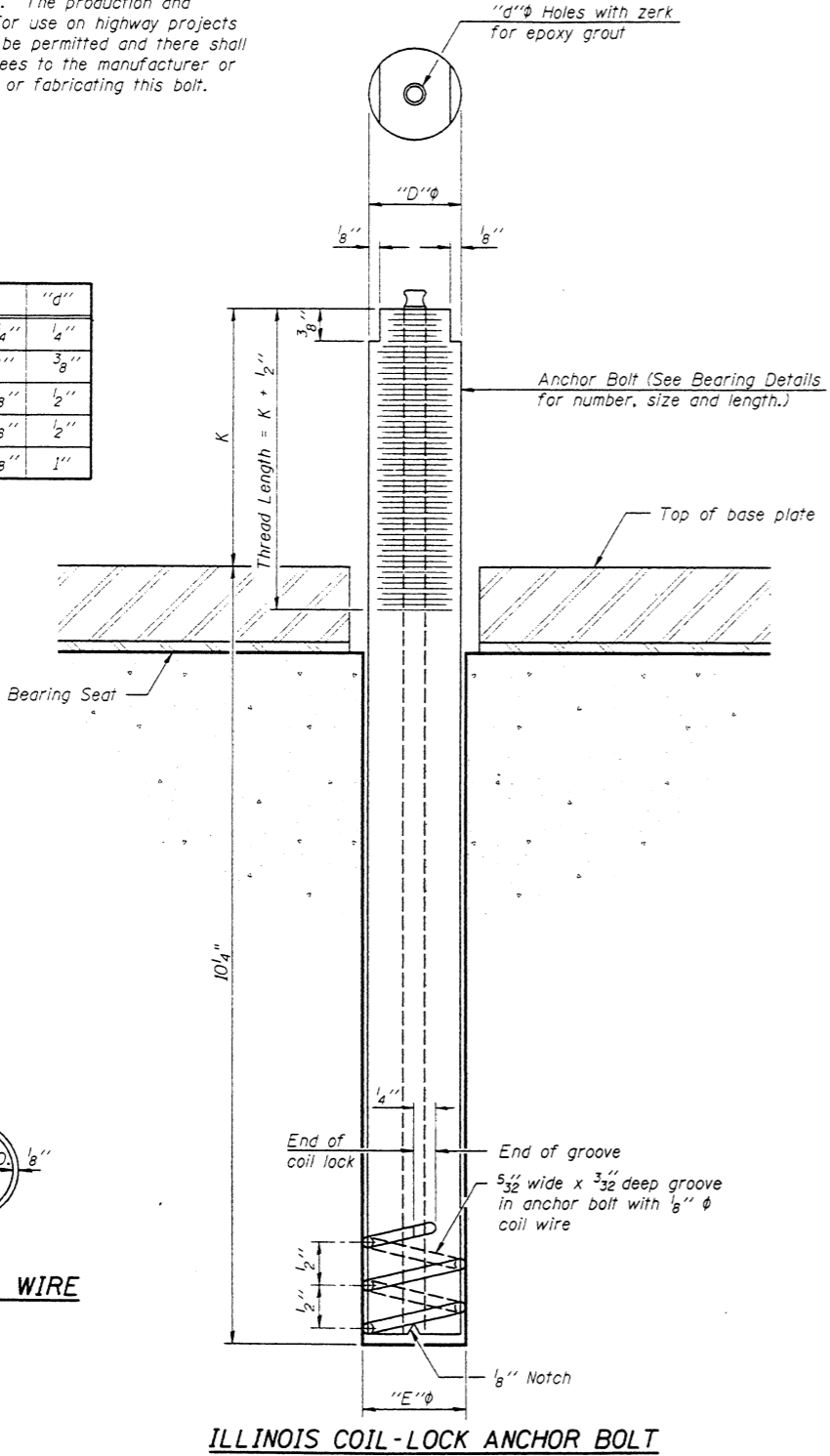
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	119-1BR	RANDOLPH	34	14
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
* UNMARKED				

SHEET NO. 6  
OF 16 SHEETS

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

D	E	H	K	"d"
1"	1 1/8"	1 3/8"	1 3/4"	1/4"
1 1/4"	1 3/8"	1 1/2"	2"	3/8"
1 1/2"	1 5/8"	1 5/8"	2 1/8"	1/2"
2"	2 1/8"	1 13/16"	2 7/8"	1/2"
2 1/2"	2 5/8"	2 5/8"	3 3/8"	1"



**MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT**

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

**INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT**

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

**ALTERNATE ANCHOR BOLTS**

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

Location	Type
Abuts.	A307

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

**GENERAL NOTES**

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

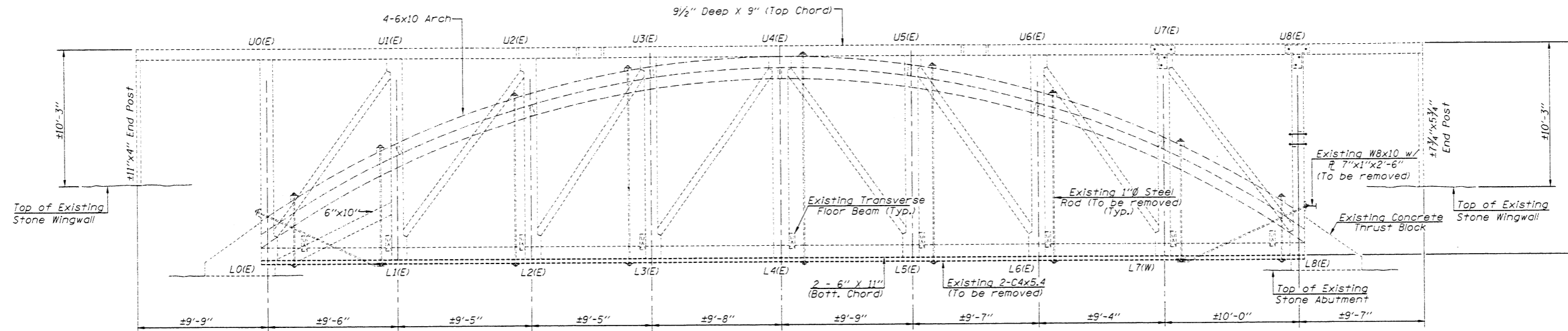
ANCHOR BOLT DETAILS  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY



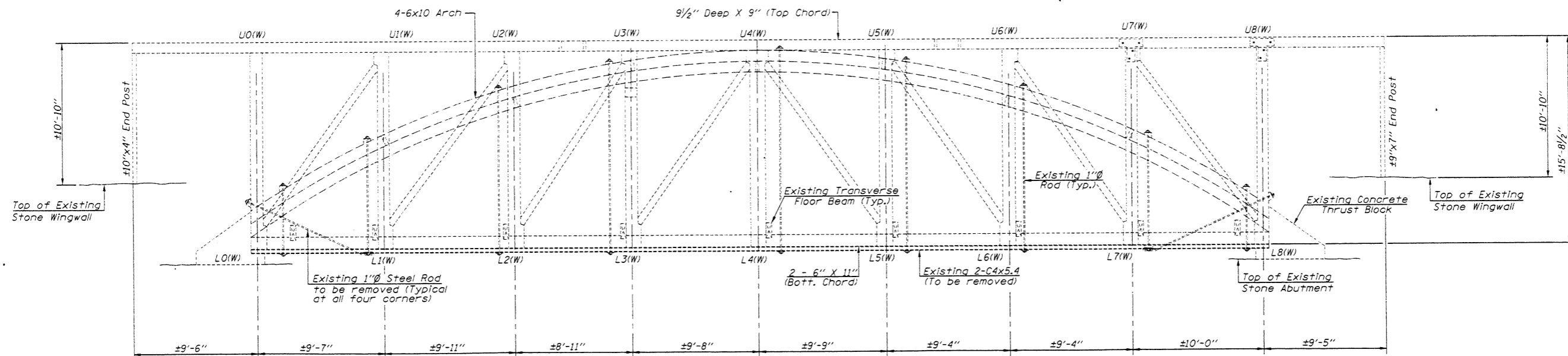
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	15
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• UNMARKED				

SHEET NO. 7  
OF 16 SHEETS



**EAST TRUSS ELEVATION**  
(Looking West)



**WEST TRUSS ELEVATION**  
(Looking West)

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Structural Steel Removal	Pound	2790

**NOTES**

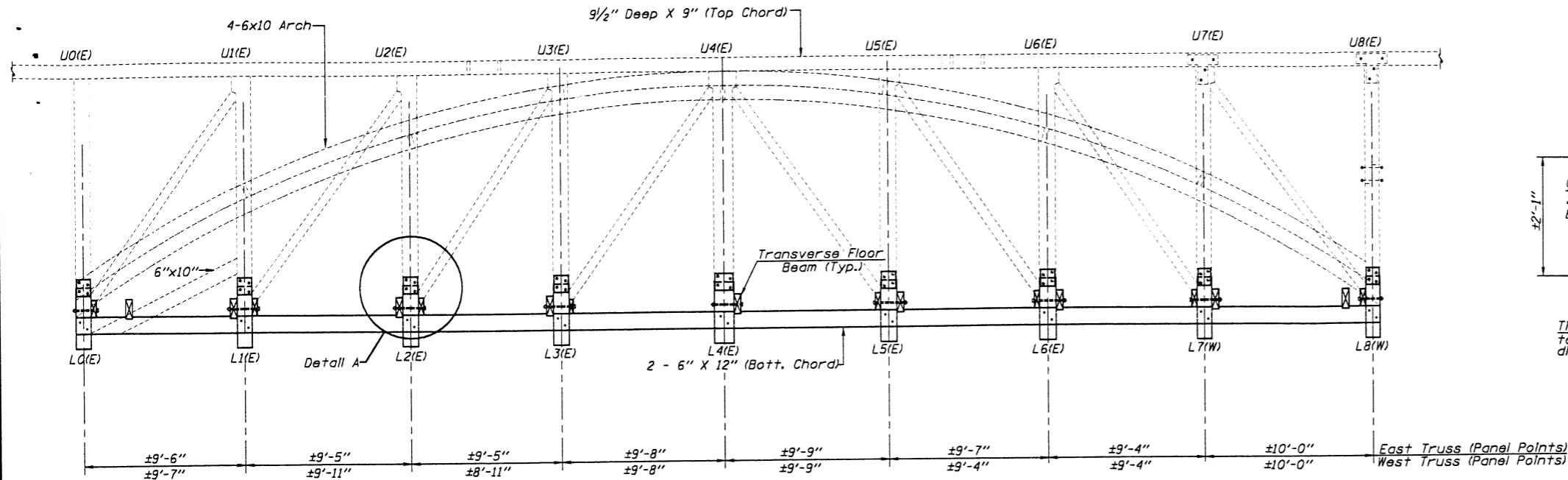
Temporary shoring for the existing structure shall be in place and the existing structure shall be fully supported prior to removing any of the existing structural steel as shown above.  
Removal of timber blocking and washers at locations of steel rods to be removed shall be included with the bid item "Structural Steel Removal".

**STRUCTURAL STEEL REMOVAL  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY**

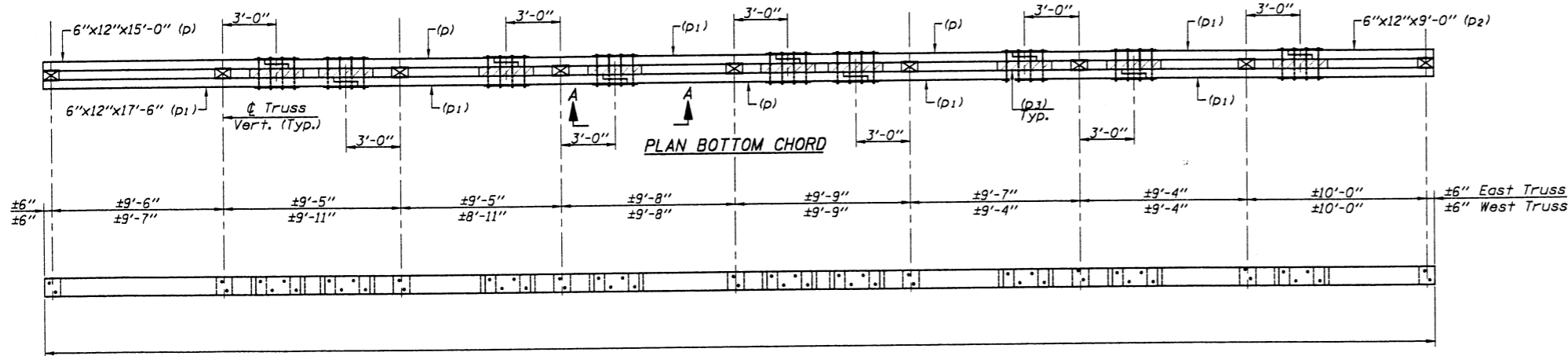
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 119-1BR		RANDOLPH	34	16
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

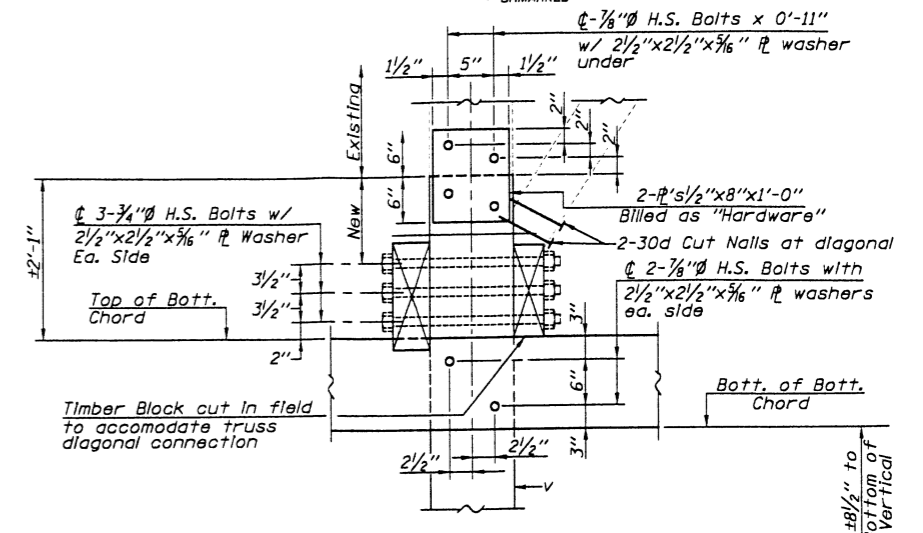
SHEET NO. 8  
OF 16 SHEETS



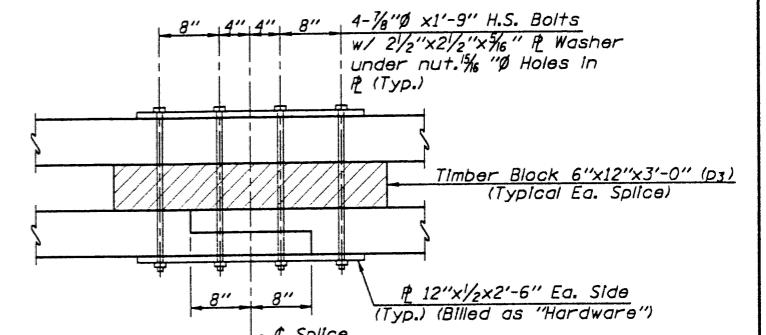
TRUSS ELEVATION  
(Looking West)



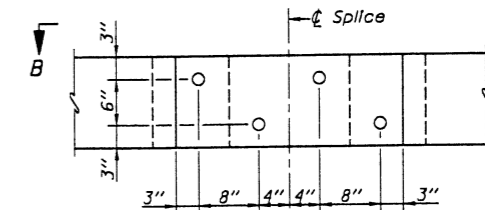
ELEVATION BOTTOM CHORD



DETAIL A



SECTION B-B

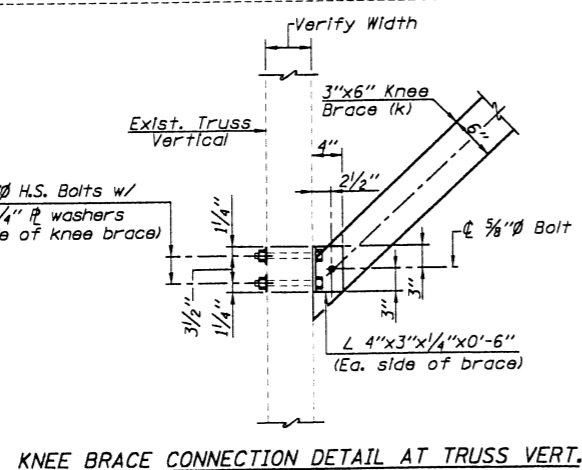
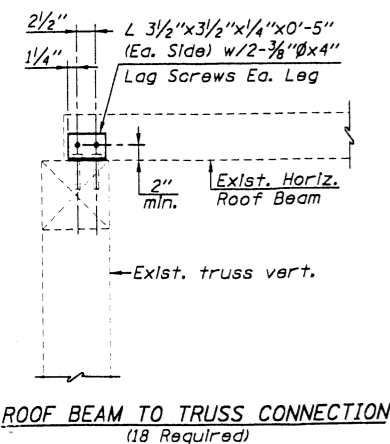


SECTION A-A

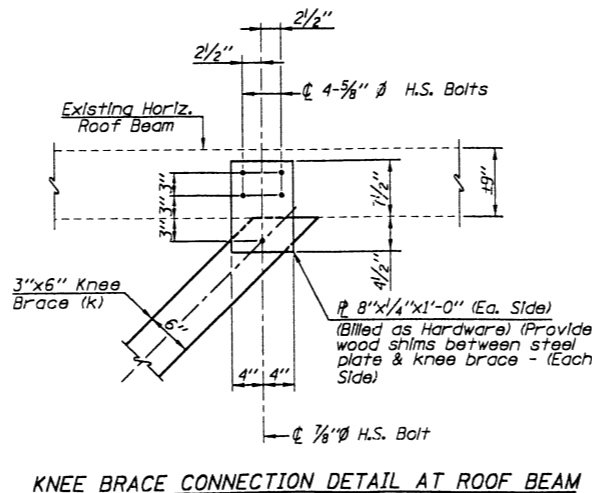
BILL OF MATERIAL - 2 TRUSSES  
(Replacement Details)

MEMBER	DESCRIPTION	NUMBER	SIZE	MATERIAL
p	Bottom Chord	8	6"x12"x15'-0"	Red Oak
p1	Bottom Chord	12	6"x12"x17'-6"	Red Oak
p2	Bottom Chord	2	6"x12"x9'-0"	Red Oak
p3	Timber Block	18	6"x12"x3'-0"	Red Oak
v	Vertical Post	18	8"x12"x4'-6"	Red Oak
k	Knee Brace	18	3"x6"x9'-6"	Red Oak

Field cut new member to match size of existing truss vertical. Quantity of vertical posts shown is based on the bottom of all verticals being replaced. If the engineer in the field deems any of the verticals fit for re-use, this quantity shall be adjusted.



KNEE BRACE CONNECTION DETAIL AT TRUSS VERT.

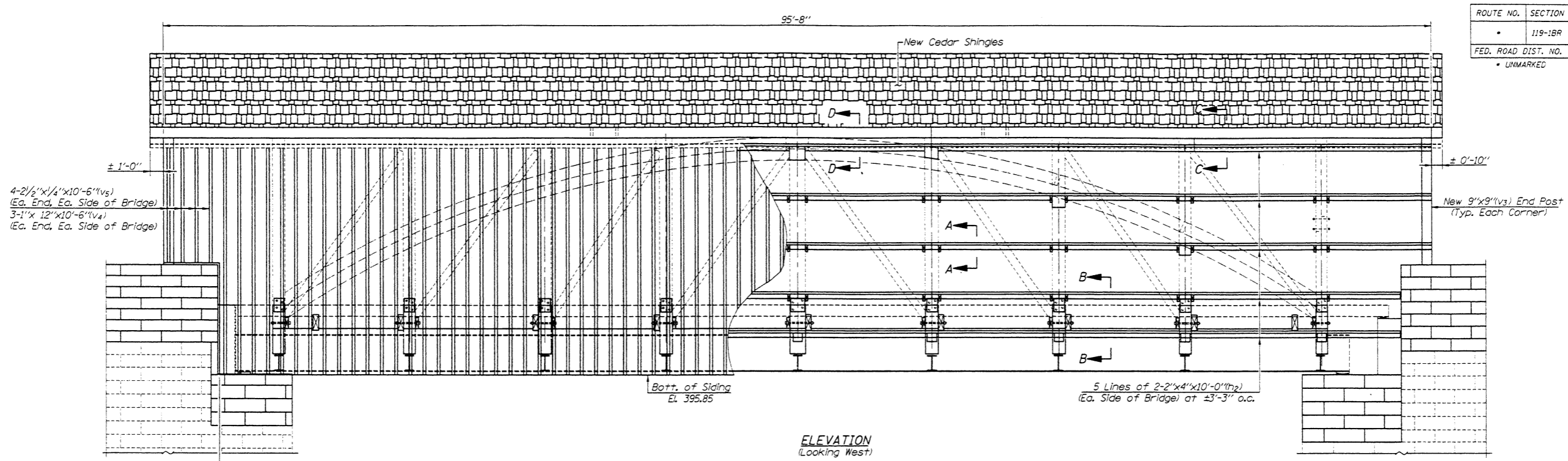


KNEE BRACE CONNECTION DETAIL AT ROOF BEAM

Notes:

- Dimensions shown are actual sizes of timber to be used. Nominal sizes will not be permitted.
- Timber members must be cut to fit as needed.
- Structural Timber shall be rough sawn.
- Holes in timber members shall be field drilled according to Article 507.08 of the Standard Specifications.
- Holes in steel members and hardware shall be standard size holes unless noted otherwise.

TRUSS REPAIR DETAILS  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

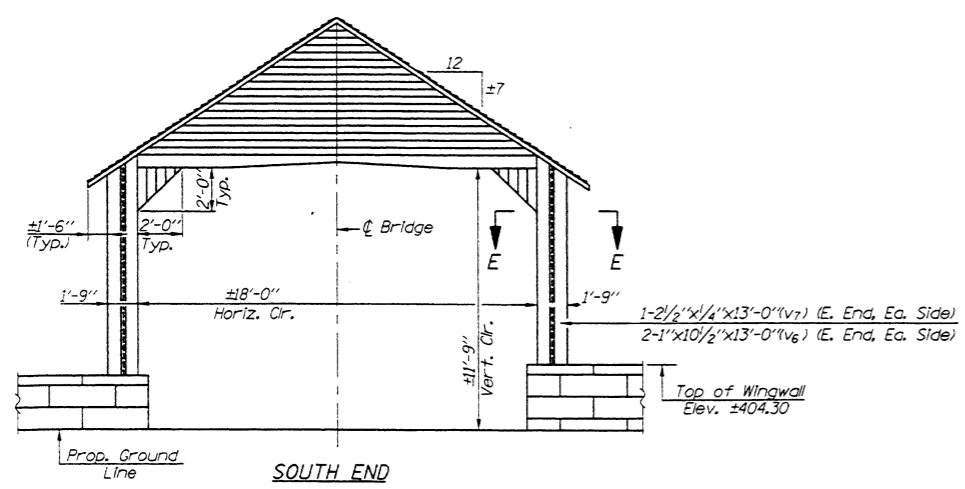


ELEVATION  
(Looking West)

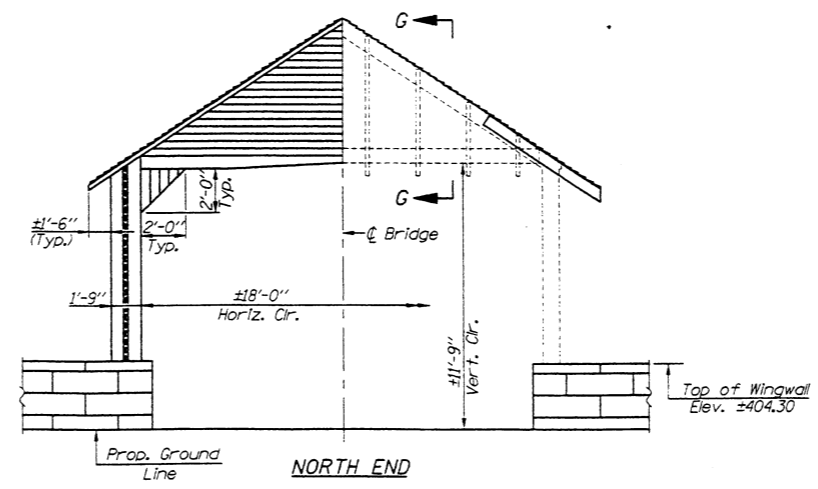
BILL OF MATERIAL - ROOF AND SIDING

MEMBER	DESCRIPTION	NUMBER	SIZE	MATERIAL
b <sub>7</sub>	Roof Rafter	15	•	Red Oak
b <sub>8</sub>	Rafter Extension	98	2"x4"x6'-0"	Red Oak
h <sub>2</sub>	Siding Supports	200	2"x4"x10'-0"	Red Oak
h <sub>3</sub>	Siding Connector	80	2"x6"x1'-9"	Red Oak
h <sub>4</sub>	Connection Block	22	8"x4"x0'-9"	Red Oak
h <sub>5</sub>	Curb/Siding Connector	36	2"x6"x3'-0"	Red Oak
h <sub>6</sub>	Connection Block	20	9"x9"x0'-9"	Red Oak
h <sub>7</sub>	Connection Block	6	8"x4"x1'-3"	Red Oak
h <sub>8</sub>	Horizontal/Siding(Ends)	64	8"x7/8"x12'-0"	Red Oak
d <sub>4</sub>	Nailers	50	1"xVariesx16'-0"	Red Oak
v <sub>1</sub>	Vertical Siding	176	1"x12"x18'-0"	Red Oak
v <sub>2</sub>	Batten Boards	176	2 1/2"x1/4"x18'-0"	Red Oak
v <sub>3</sub>	End Post	4	9"x9"x10'-6"	Red Oak
v <sub>4</sub>	Vertical Siding	12	1"x12"x10'-6"	Red Oak
v <sub>5</sub>	Batten Boards	16	2 1/2"x1/4"x10'-6"	Red Oak
v <sub>6</sub>	Siding (Ends)	8	1"x 10 1/2"x13'-0"	Red Oak
v <sub>7</sub>	Batten Boards (Ends)	4	2 1/2"x1/4"x13'-0"	Red Oak

- Replace roof rafters as condition requires. Quantity of roof rafters is based on 15% of roof rafters being replaced. Existing roof rafters are 2" thick with a depth of 7" at the outside support and 3 1/2" at the roof ridge. Approximate length = 11'-6". Field verify roof rafter dimensions and quantity required prior to ordering members.
  - Nailer widths shall vary between 4" and 12" and shall be nailed to roof rafters in a random order with a distance between roof nailers varying from 4" to 8". Quantity of nailers is based on 25% of nailers being replaced.
  - Nail siding boards to each horizontal (h<sub>2</sub>) using 3-12d cut nails per board. Nail batten boards to each horizontal (h<sub>2</sub>) w/ 1-8d cut nail each side of joint.
- Notes:
1. Structural timber designated ( ), represents member designation. See Bill of Material - Roof and Siding this sheet.
  2. All holes shall be field drilled.
  3. Timber members must be cut to fit as needed.
  4. Sizes shown are the actual dimensions of structural timber to be used. Nominal sizes will not be permitted.



SOUTH END



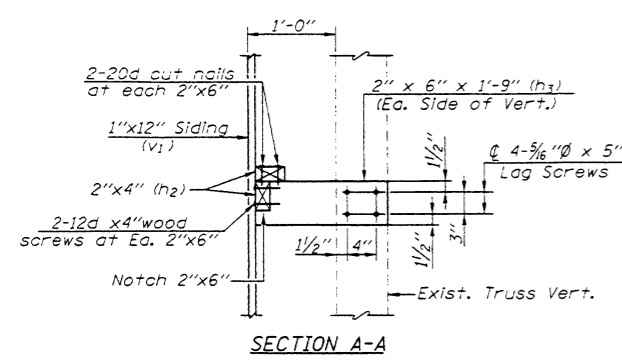
NORTH END

ROOF & SIDING DETAILS  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

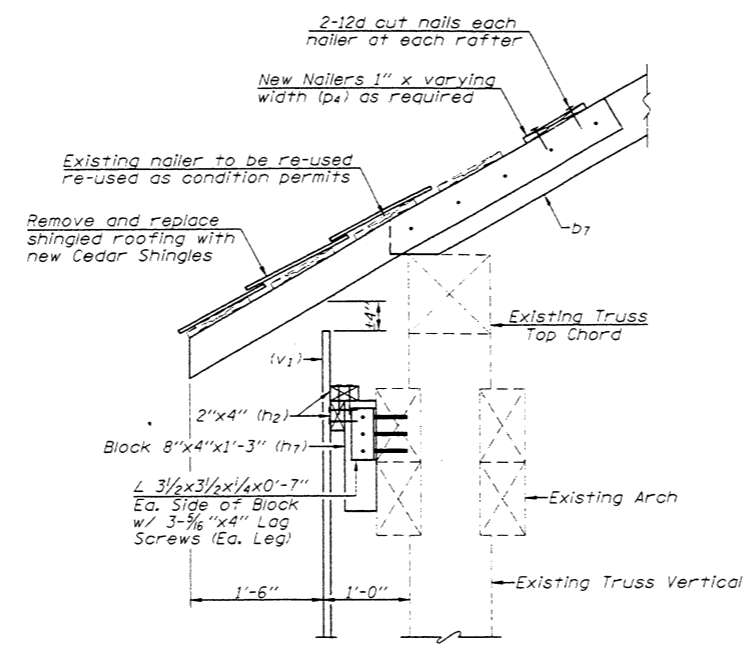
Note: Work this sheet with Sheet No. 9 of 16.

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	18
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• UNMARKED				

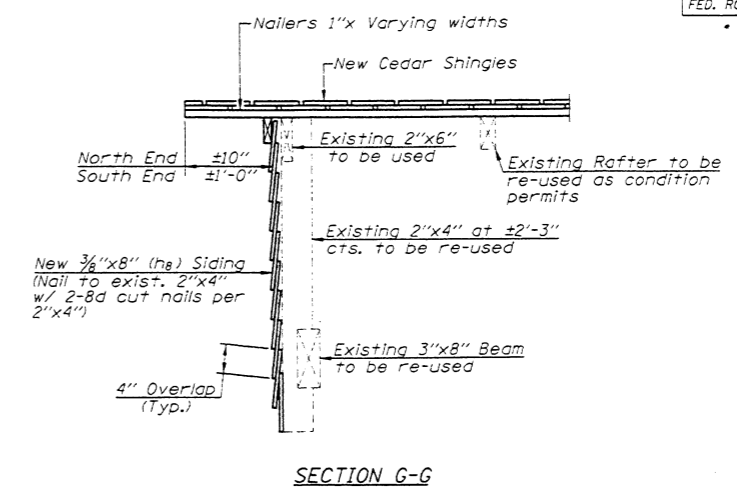
SHEET NO. 10  
OF 16 SHEETS



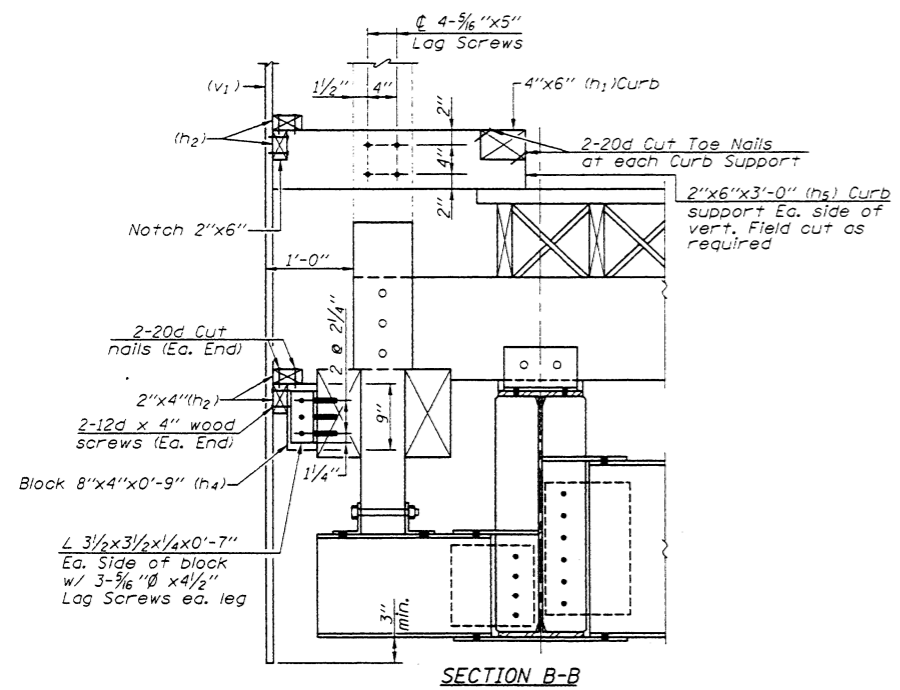
SECTION A-A



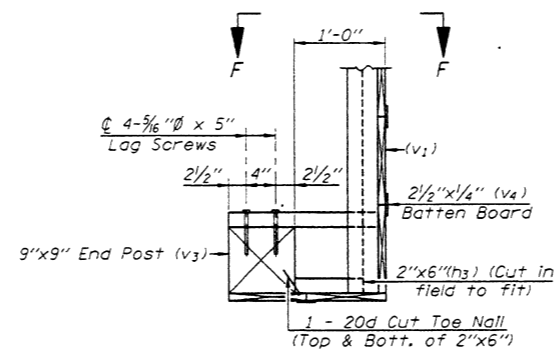
SECTION D-D



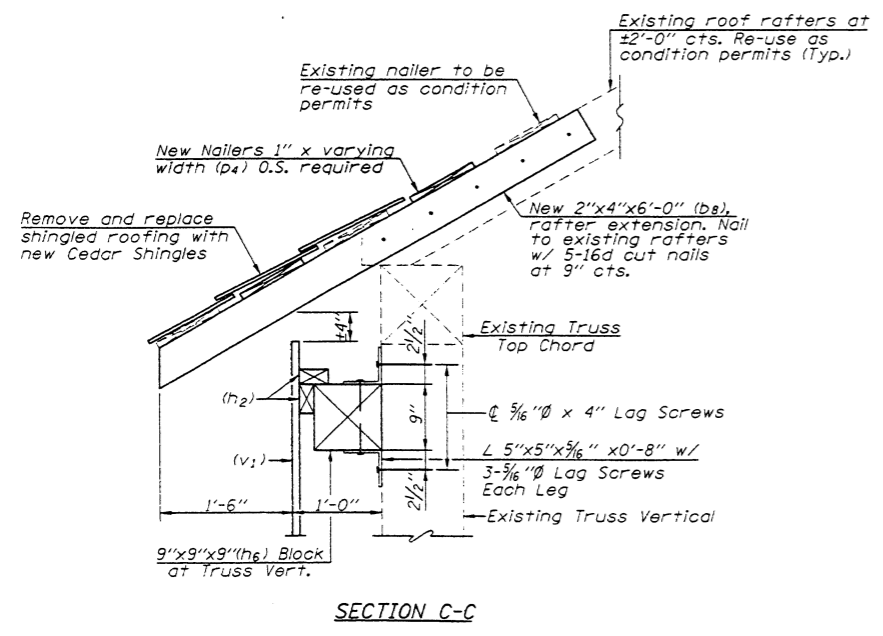
SECTION G-G



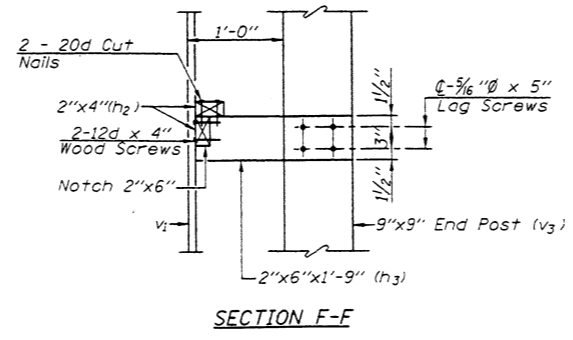
SECTION B-B



SECTION E-E



SECTION C-C



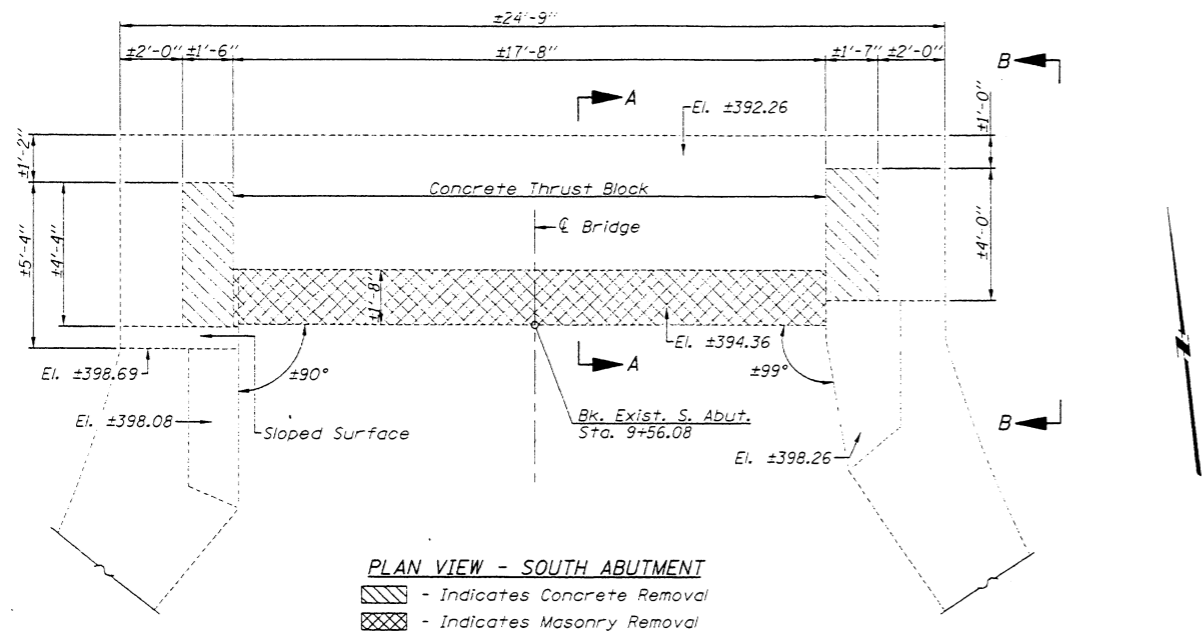
SECTION F-F

ROOF & SIDING DETAILS  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

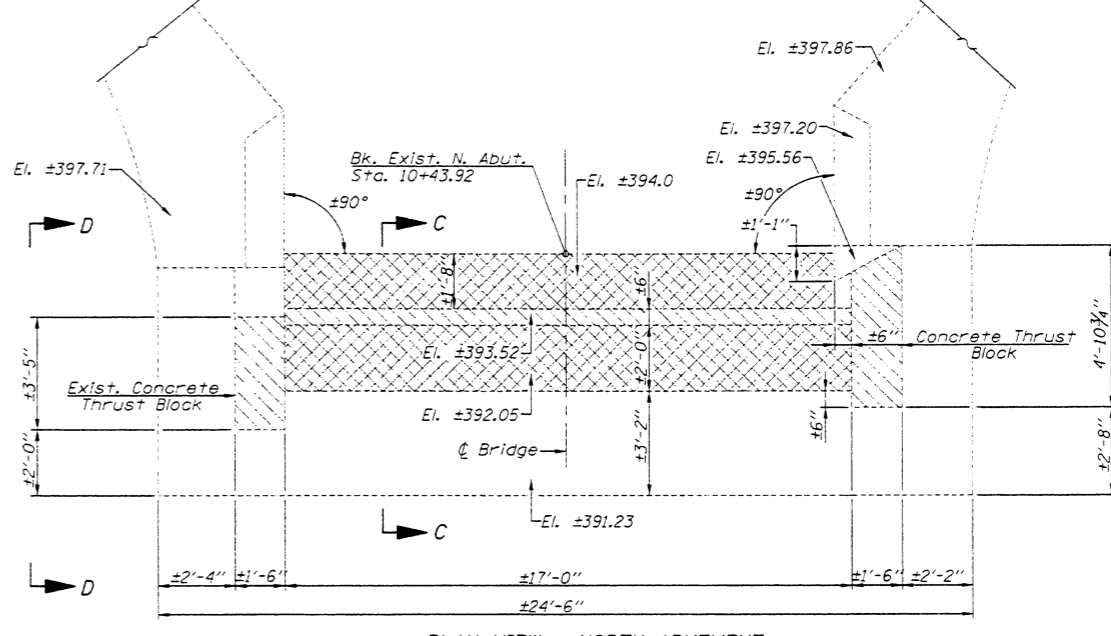
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	19
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* UNMARKED				

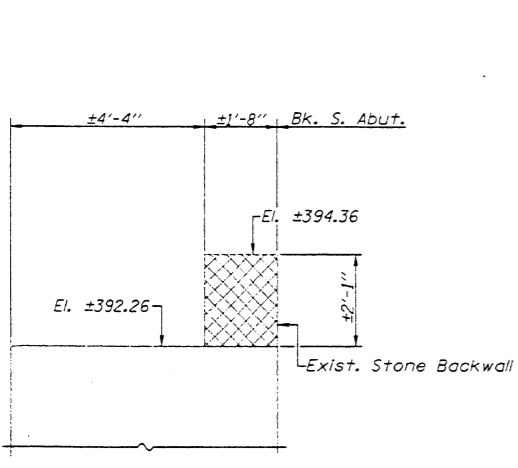
SHEET NO. 11  
OF 16 SHEETS



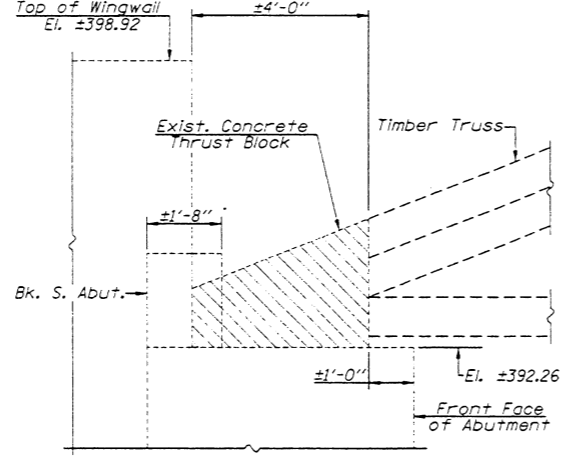
PLAN VIEW - SOUTH ABUTMENT  
 - Indicates Concrete Removal  
 - Indicates Masonry Removal



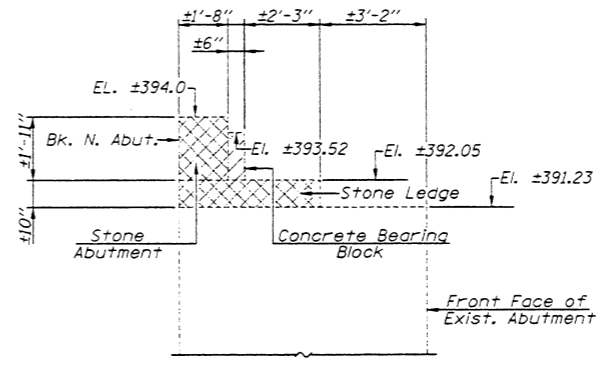
PLAN VIEW - NORTH ABUTMENT  
 - Indicates Concrete Removal  
 - Indicates Masonry Removal



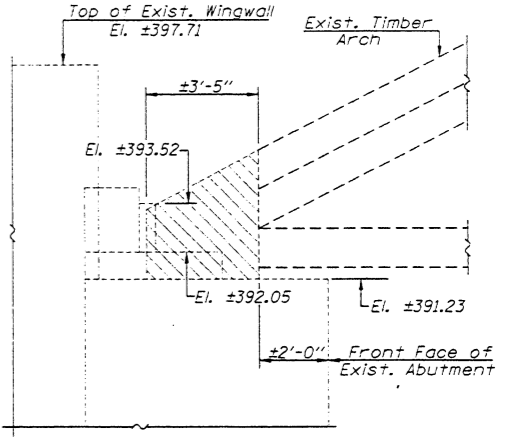
SECTION A-A



SECTION B-B



SECTION C-C



SECTION D-D

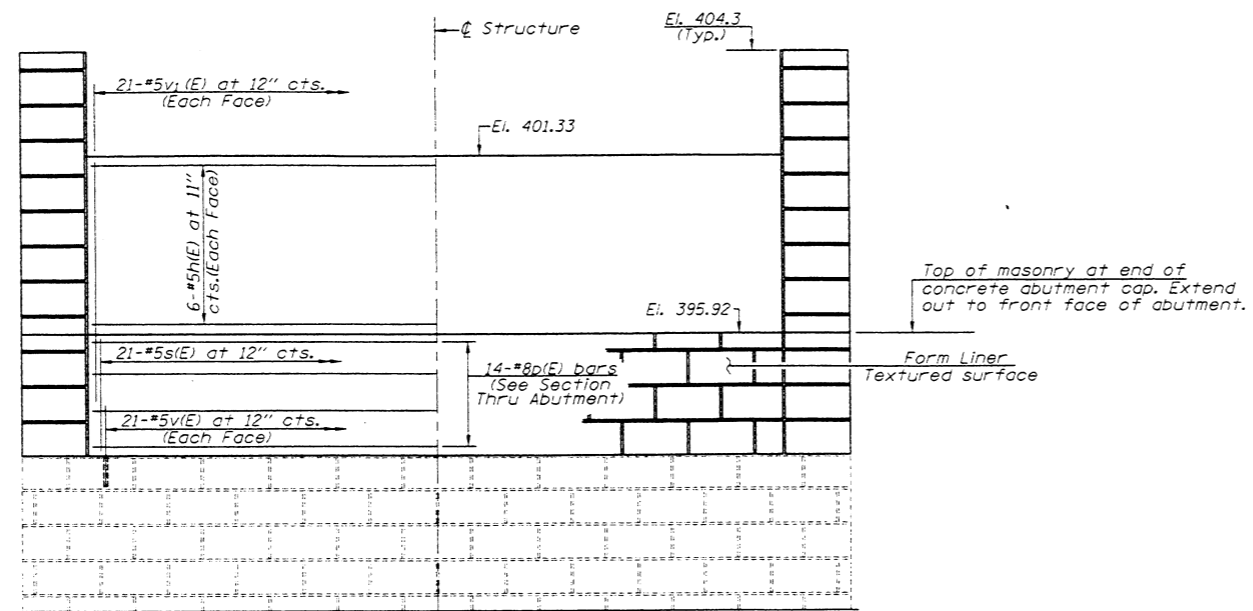
BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	3.2
Masonry Removal	Cu. Yd.	7.1

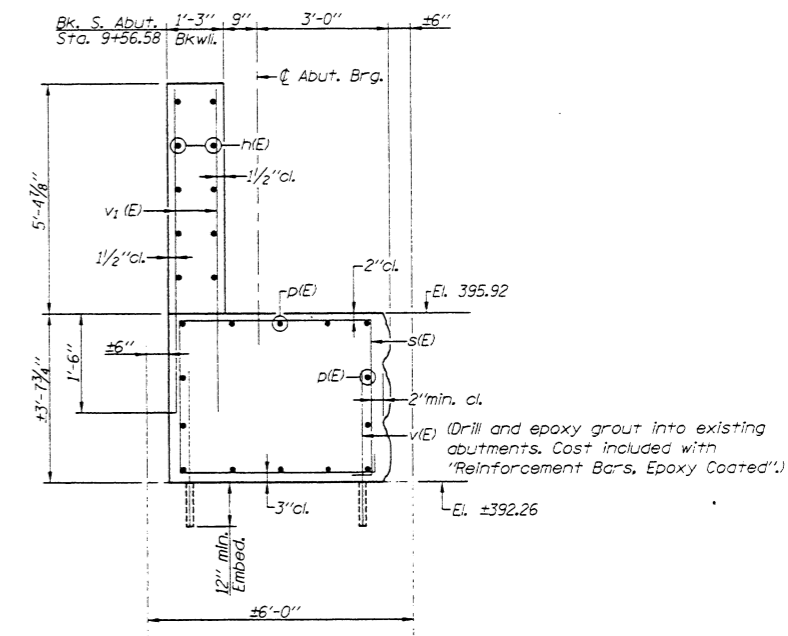
ABUTMENT REMOVAL DETAILS  
 UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 SECTION 119-1BR  
 S.N. 079-9000  
 STA. 10+00  
 RANDOLPH COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	20
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• UNMARKED				

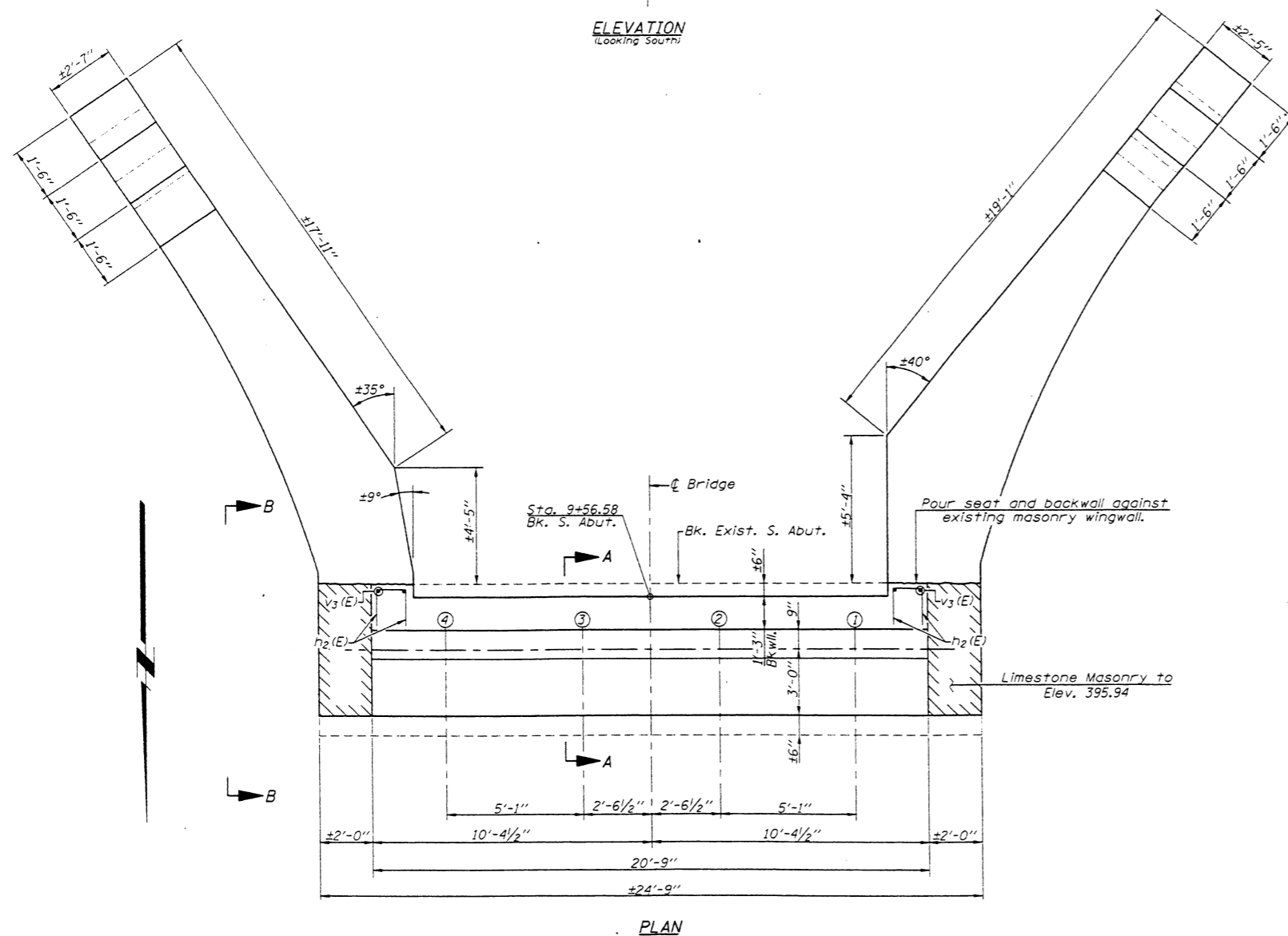
SHEET NO. 12  
OF 16 SHEETS



ELEVATION  
(Looking South)



SECTION A-A



PLAN

- NOTES**
- Reinforcement bars designated (E) shall be epoxy coated.
  - All exposed edges shall have standard 3/4" chamfer.
  - Work this sheet with Sheet No. 13 of 16.
  - Place reinforcement bars in top of cap to miss anchor bolts.
  - The bridge superstructure shall be in place prior to placing additional backfill behind the abutment.

SOUTH ABUTMENT  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

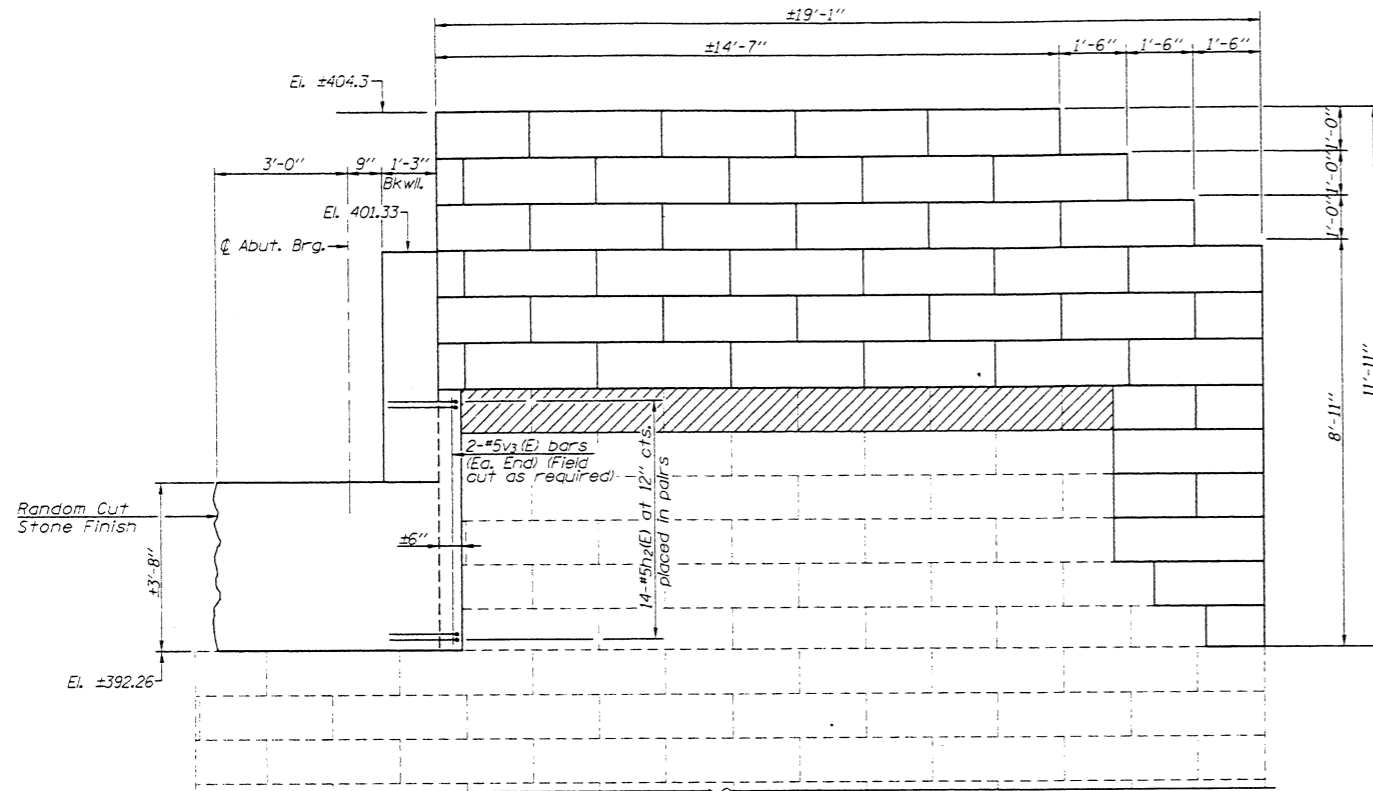


STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

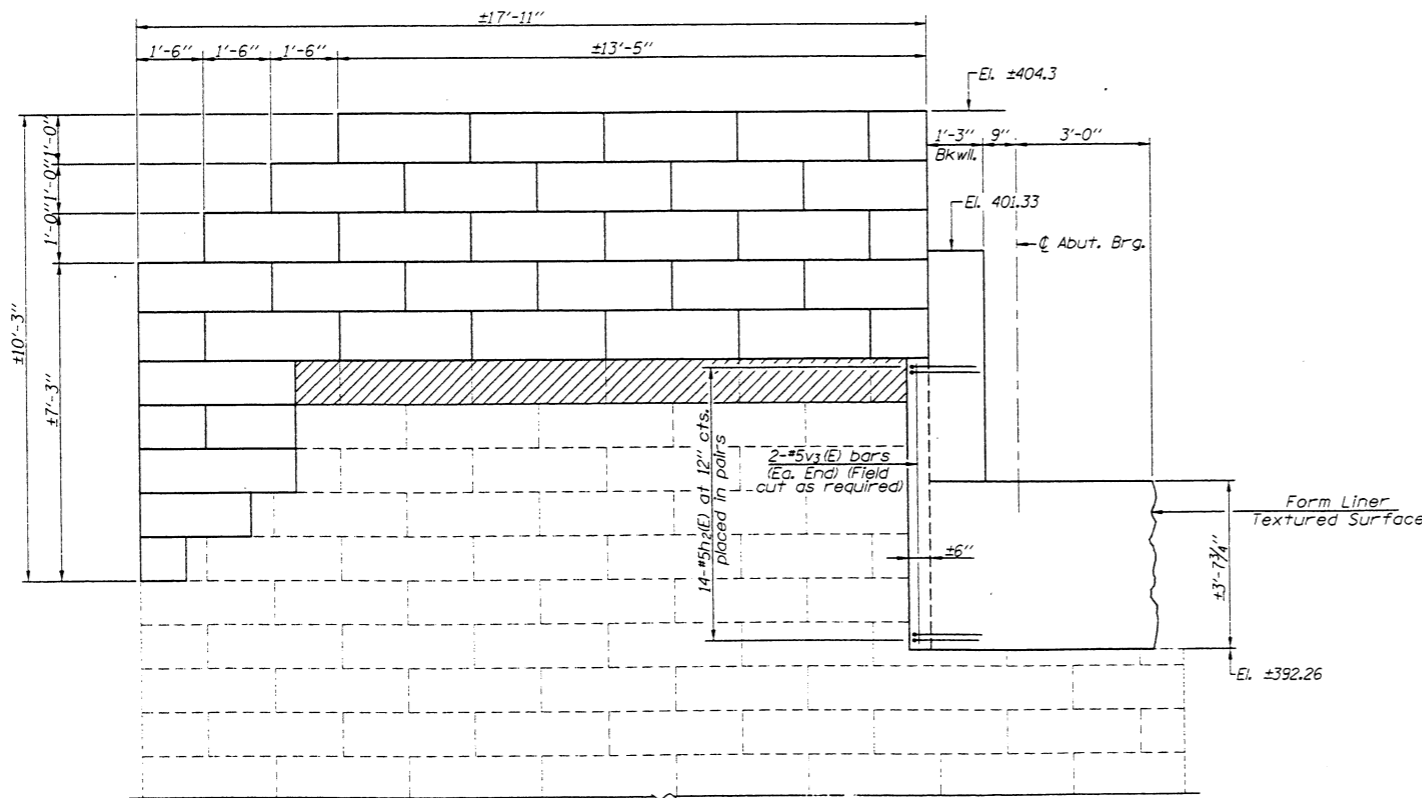
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
119-1BR	119-1BR	RANDOLPH	34	21
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

• UNMARKED

SHEET NO. 13  
OF 16 SHEETS

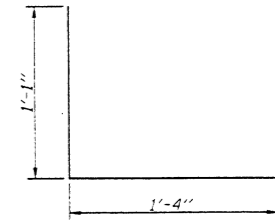


SOUTHWEST WINGWALL

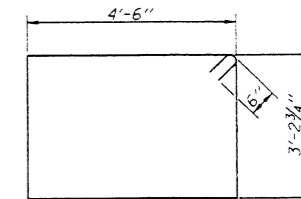


SOUTHEAST WINGWALL

- Existing top wingwall course to be removed and incorporated into new wingwall as top course



BAR h2(E)



BAR s

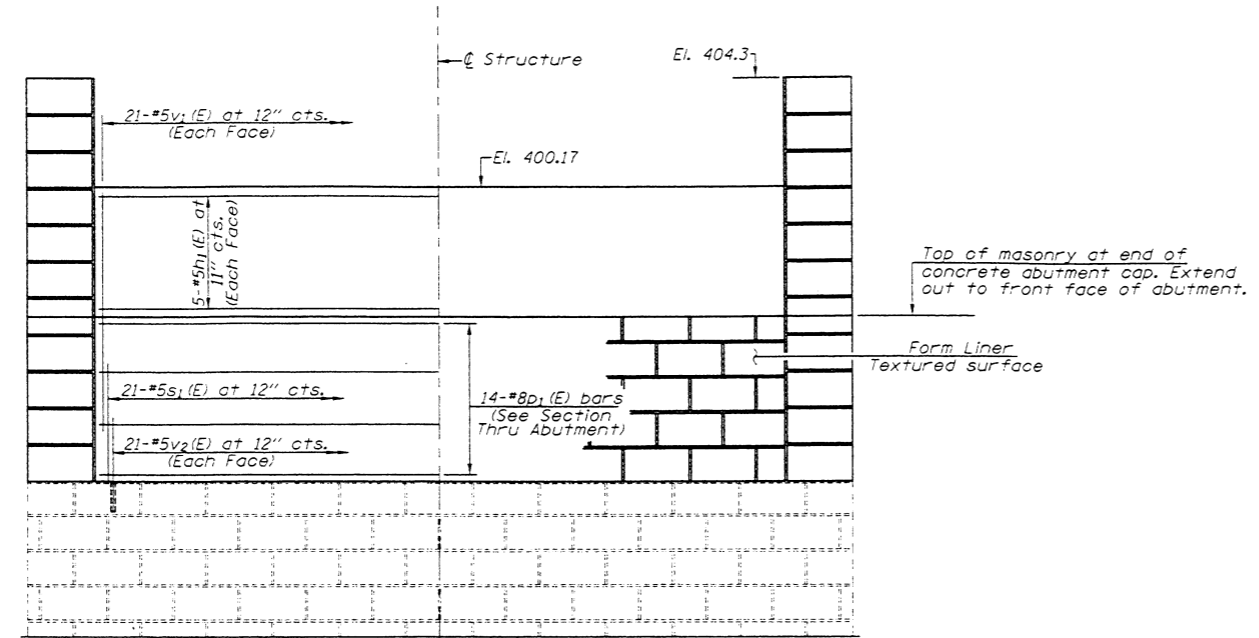
BILL OF MATERIAL  
SOUTH ABUTMENT

Bar	No.	Size	Length	Shape
h(E)	12	#5	20'-5"	—
h2(E)	28	#5	2'-5"	—
p(E)	14	#8	20'-5"	—
s(E)	21	#5	16'-6"	□
v(E)	42	#5	3'-0"	—
v1(E)	42	#5	6'-9"	—
v3(E)	4	#5	6'-0"	—
Concrete Structures			Cu. Yd.	19.9
Reinforcement Bars, Epoxy Coated			Pound	1910
Bridge Seat Sealer			Sq. Ft.	78
Limestone Masonry			Cu. Yd.	30.7
Tuckpointing Masonry Joints			Foot	260
Form Liner Textured Surface			Sq. Ft.	76

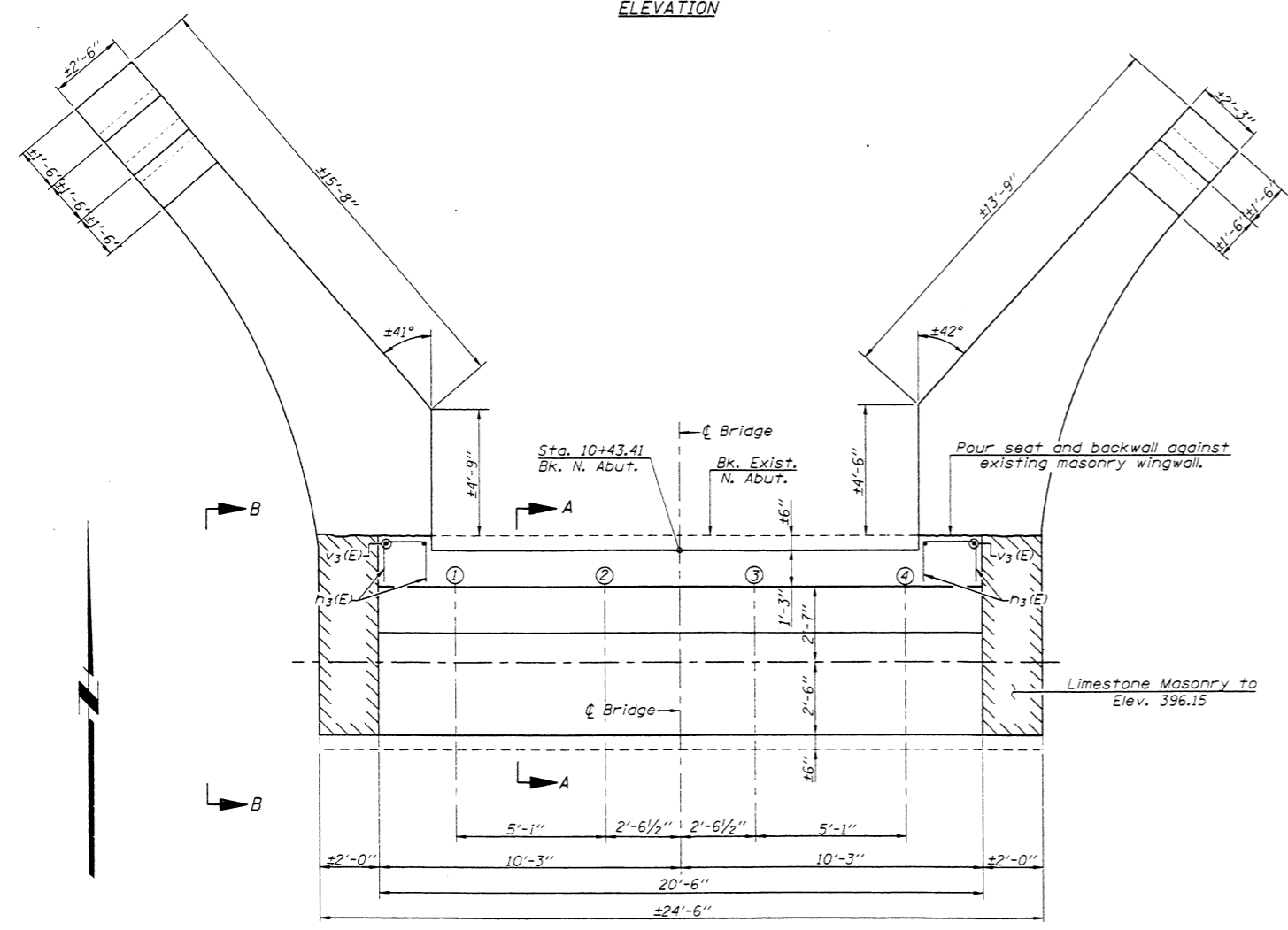
SOUTH ABUTMENT  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	22
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
• UNMARKED				

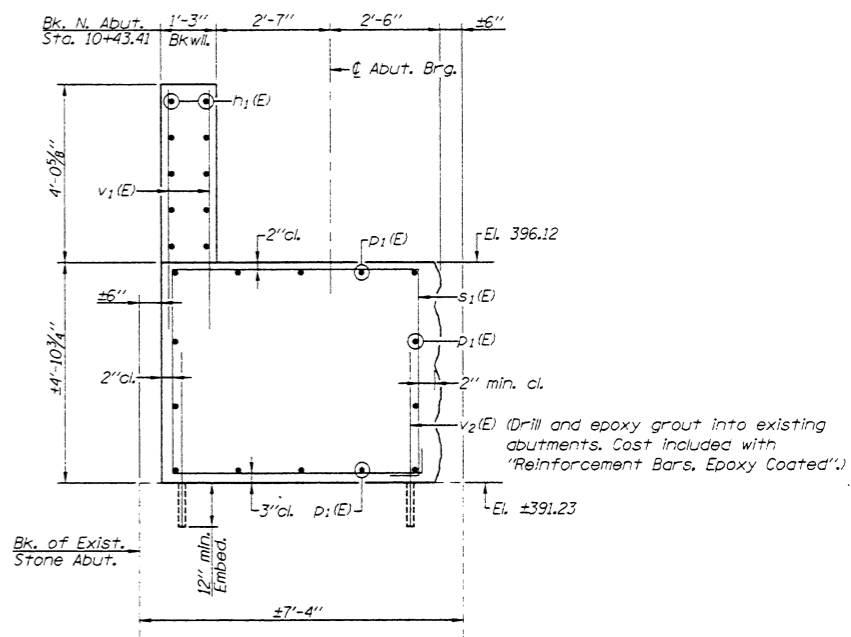
SHEET NO. 14  
OF 16 SHEETS



ELEVATION



PLAN



SECTION A-A

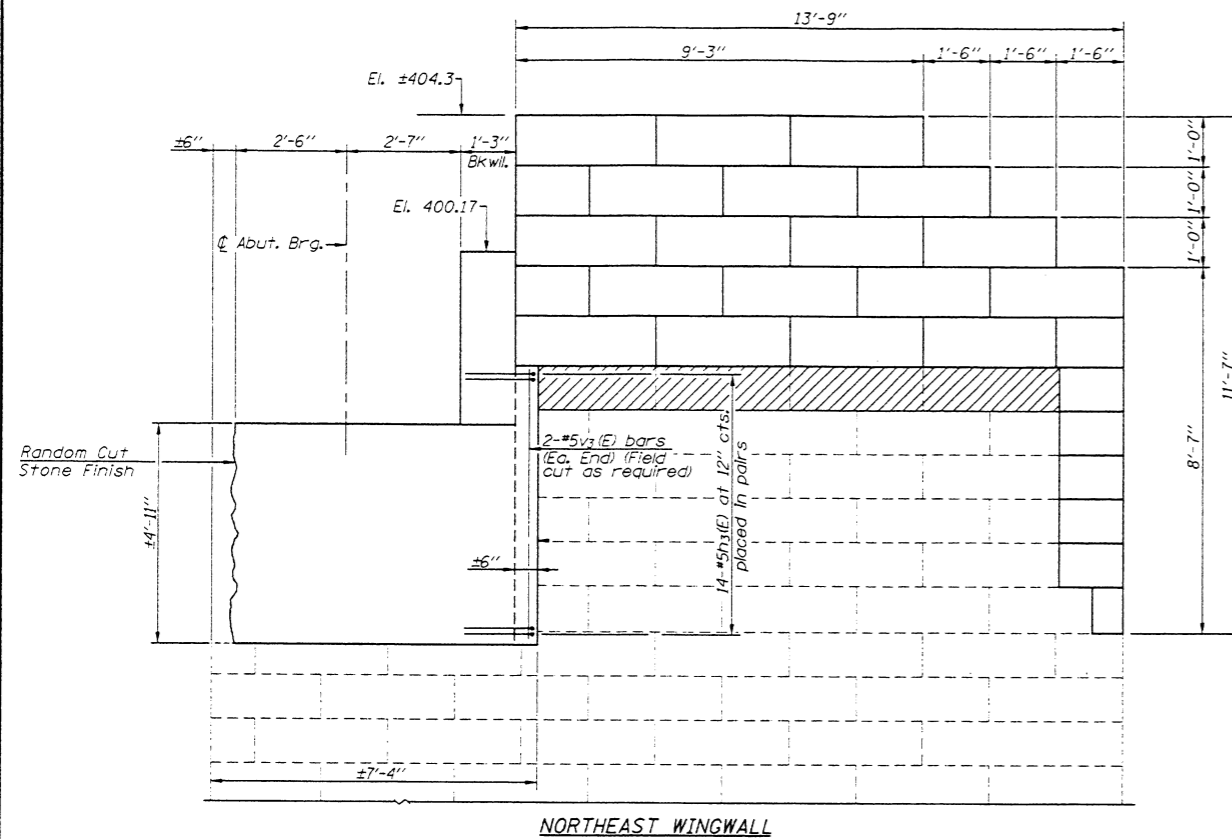
- NOTES**
- Reinforcement bars designated (E) shall be epoxy coated.
  - All exposed edges shall have standard 1/4" chamfer.
  - Work this sheet with Sheet No. 15 of 16.
  - Place reinforcement bars in top of cap to miss anchor bolts.
  - The bridge superstructure shall be in place prior to placing additional backfill behind the abutment.

NORTH ABUTMENT  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY

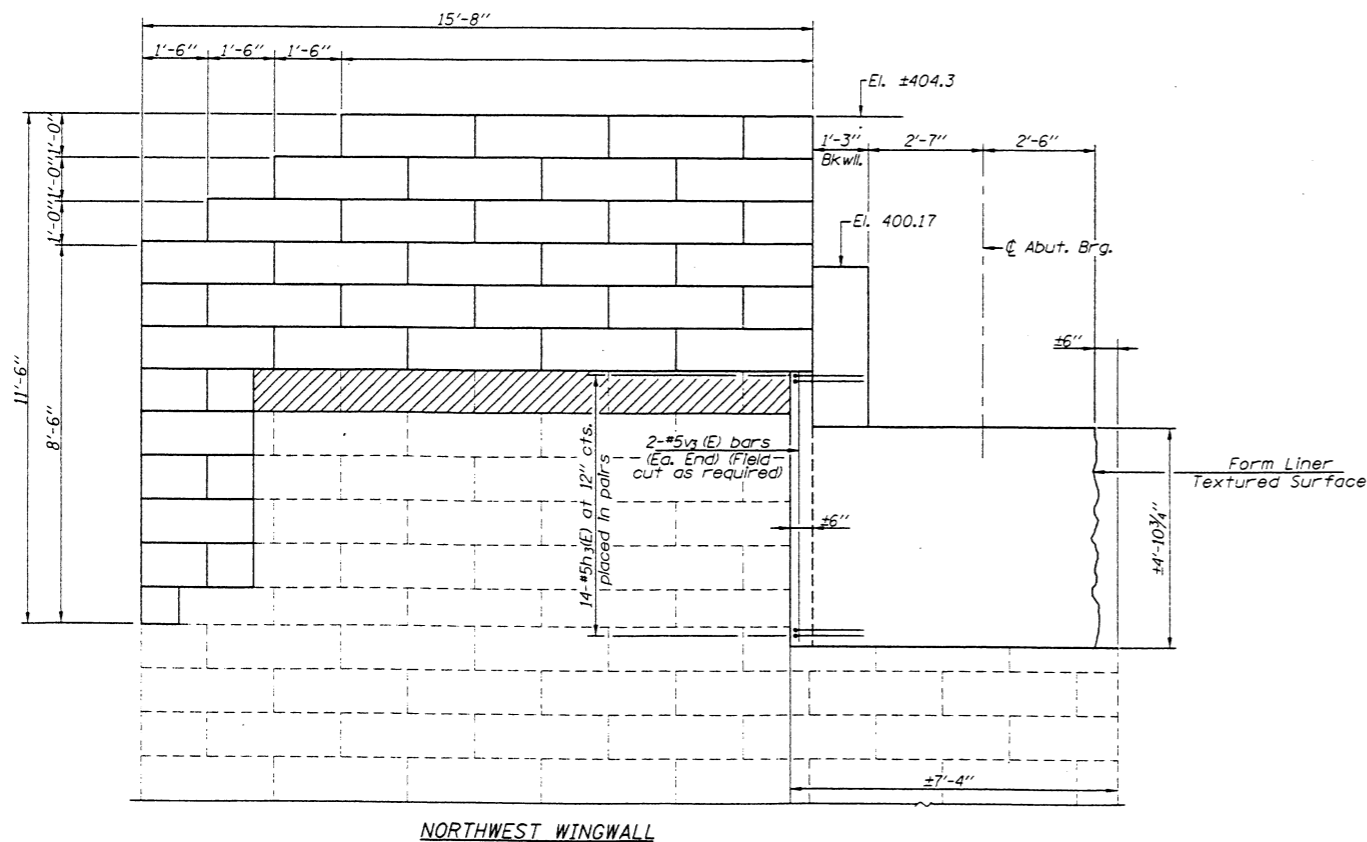
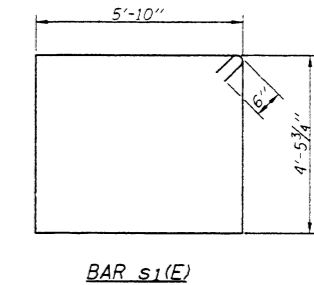
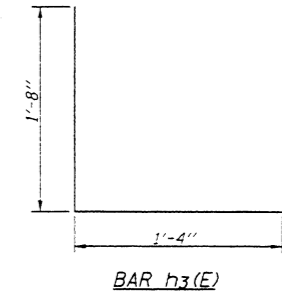
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	23
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
• UNMARKED				

SHEET NO. 15  
OF 16 SHEETS



- Existing top wingwall course to be removed and incorporated into new wingwall as top course



**BILL OF MATERIAL  
NORTH ABUTMENT**

Bar	No.	Size	Length	Shape
h <sub>1</sub> (E)	10	#5	20'-2"	—
h <sub>3</sub> (E)	28	#5	3'-0"	L
p <sub>1</sub> (E)	14	#8	20'-2"	—
s <sub>1</sub> (E)	21	#5	21'-8"	□
v <sub>1</sub> (E)	42	#5	6'-9"	—
v <sub>2</sub> (E)	42	#5	3'-6"	—
v <sub>3</sub> (E)	4	#5	6'-0"	—
Concrete Structures			Cu. Yd.	29.3
Reinforcement Bars, Epoxy Coated			Pound	2000
Bridge Seat Sealer			Sq. Ft.	105
Limestone Masonry			Cu. Yd.	29.6
Tuckpointing Masonry Joints			Foot	220
Form Liner Textured Surface			Sq. Ft.	101

NORTH ABUTMENT  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N. 079-9000  
STA. 10+00  
RANDOLPH COUNTY



\* UNMARKED



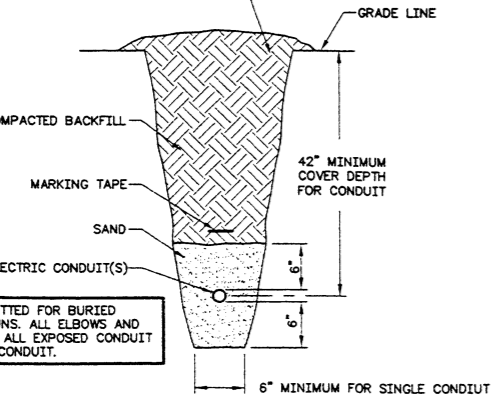
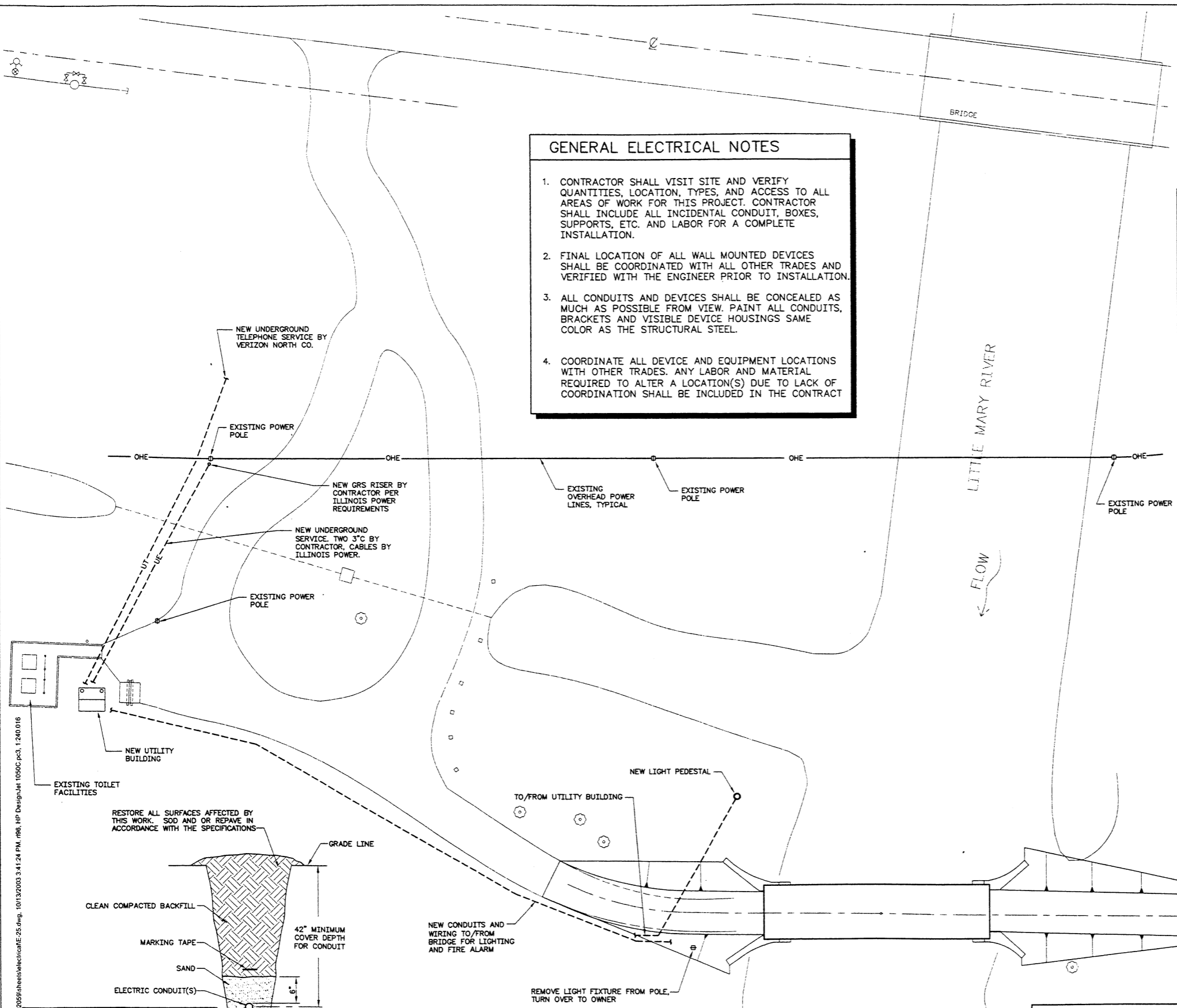
EXPIRES 11/30/03

**GENERAL ELECTRICAL NOTES**

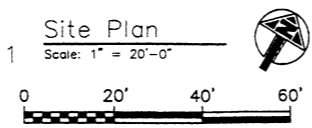
1. CONTRACTOR SHALL VISIT SITE AND VERIFY QUANTITIES, LOCATION, TYPES, AND ACCESS TO ALL AREAS OF WORK FOR THIS PROJECT. CONTRACTOR SHALL INCLUDE ALL INCIDENTAL CONDUIT, BOXES, SUPPORTS, ETC. AND LABOR FOR A COMPLETE INSTALLATION.
2. FINAL LOCATION OF ALL WALL MOUNTED DEVICES SHALL BE COORDINATED WITH ALL OTHER TRADES AND VERIFIED WITH THE ENGINEER PRIOR TO INSTALLATION.
3. ALL CONDUITS AND DEVICES SHALL BE CONCEALED AS MUCH AS POSSIBLE FROM VIEW. PAINT ALL CONDUITS, BRACKETS AND VISIBLE DEVICE HOUSINGS SAME COLOR AS THE STRUCTURAL STEEL.
4. COORDINATE ALL DEVICE AND EQUIPMENT LOCATIONS WITH OTHER TRADES. ANY LABOR AND MATERIAL REQUIRED TO ALTER A LOCATION(S) DUE TO LACK OF COORDINATION SHALL BE INCLUDED IN THE CONTRACT

**ELECTRICAL SYMBOLS**

<b>FIRE ALARM</b>	<b>SITE</b>
<ul style="list-style-type: none"> <li>Ⓜ HEAT DETECTOR - 190° FIXED TEMPERATURE</li> <li>Ⓜ AUDIO/VISUAL ALARM HORN</li> <li>Ⓜ AUTOMATIC DIALER</li> <li>Ⓜ TAMPER SWITCH CONNECTION</li> <li>Ⓜ FLOW SWITCH CONNECTION</li> <li>Ⓜ SOLENOID VALVE</li> <li>Ⓜ PRESSURE SWITCH</li> <li>Ⓜ FIRE ALARM CONTROL PANEL</li> <li>Ⓜ KNOX BOX</li> <li>— MESSENGER WIRE</li> <li>— HEAT DETECTION WIRING</li> </ul>	<ul style="list-style-type: none"> <li>Ⓜ UTILITY POLE</li> <li>— UE — UNDERGROUND ELECTRIC</li> <li>— OHE — OVERHEAD ELECTRIC</li> <li>— UT — UNDERGROUND TELEPHONE</li> </ul>
<b>LIGHT FIXTURES</b>	<b>ABBREVIATIONS</b>
<ul style="list-style-type: none"> <li>LETTER &amp; NUMBER = FIXTURE TYPE</li> <li>EM = WITH EMERGENCY BATTERY BACKUP</li> <li>Ⓜ LOW VOLTAGE FIXTURE</li> <li>Ⓜ SURFACE MOUNTED FIXTURE</li> <li>Ⓜ BRACKET MOUNTED LIGHT FIXTURE</li> <li>Ⓜ GROUND MOUNTED FIXTURE</li> </ul>	<ul style="list-style-type: none"> <li>C CONDUIT</li> <li>EC ELECTRICAL CONTRACTOR</li> <li>EM WITH EMERGENCY BATTERY BACKUP</li> <li>FACP FIRE ALARM CONTROL PANEL</li> <li>GC GENERAL CONTRACTOR</li> <li>GRD GROUND</li> <li>GRS GALV. RIGID STEEL</li> <li>kcmil THOUSAND CIRCULAR MILLS</li> <li>LT LIQUID TIGHT CONDUIT</li> <li>MC MECHANICAL CONTRACTOR</li> <li>NEC NATIONAL ELECTRICAL CODE</li> <li>PC PLUMBING CONTRACTOR</li> <li>WP WEATHERPROOF</li> </ul>
<b>DEVICES</b>	<b>CONDUIT AND WIRE</b>
<ul style="list-style-type: none"> <li>SWITCHING:</li> <li>Ⓜ SINGLE POLE LIGHT SWITCH</li> <li>Ⓜ PHOTOCELL</li> </ul>	<ul style="list-style-type: none"> <li>Ⓜ HOME RUN: DOT=GRD, SHORT=PHASE, LONG=NEUT, DASHED=ISOLATED GRD</li> <li>Ⓜ HOME RUN CIRCUIT DESIGNATION: LETTER(S) = PANEL SERVING CIRCUIT, NUMERAL(S) = CIRCUIT NUMBER</li> <li>— CONDUIT AND WIRING CONCEALED WALL</li> <li>— CONDUIT AND WIRING CONCEALED</li> <li>— CONDUIT AND WIRING UNDERGROUND</li> </ul>
<b>RECEPTACLES:</b>	<b>SECURITY</b>
<ul style="list-style-type: none"> <li>"GFI" INDICATES GROUND FAULT INTERRUPTER TYPE</li> <li>"S" INDICATES SURGE SUPPRESSION</li> <li>Ⓜ DUPLEX RECEPTACLE</li> <li>Ⓜ QUADRAPLEX RECEPTACLE</li> </ul>	<ul style="list-style-type: none"> <li>Ⓜ CAMERA</li> <li>Ⓜ WALL MOUNTED MOTION SENSOR</li> <li>Ⓜ CEILING MOUNTED MOTION SENSOR</li> <li>Ⓜ DOOR CONTACTS</li> <li>Ⓜ ELECTRIC LOCK</li> <li>Ⓜ PROXIMITY CARD READER</li> <li>Ⓜ KEYPAD</li> <li>Ⓜ SECURITY CABINET</li> </ul>
<b>SYSTEMS</b>	
<ul style="list-style-type: none"> <li>Ⓜ TELEPHONE TERMINAL BOARD</li> </ul>	
<b>EQUIPMENT AND CONNECTIONS</b>	
<ul style="list-style-type: none"> <li>Ⓜ SURFACE MOUNTED PANEL</li> <li>Ⓜ EQUIPMENT AS NOTED</li> <li>Ⓜ SAFETY SWITCH - NON FUSED</li> <li>Ⓜ COMBINATION STARTER - FUSED TYPE</li> <li>Ⓜ FHMS (FRACTIONAL HORSEPOWER MOTOR STARTER)</li> <li>Ⓜ MOTOR OR EQUIPMENT CONNECTION</li> <li>Ⓜ MOTORIZED DAMPER</li> <li>Ⓜ JUNCTION BOX OR CONDUIT CONNECTION</li> </ul>	



2 Trench Detail for Conduit  
Not to Scale



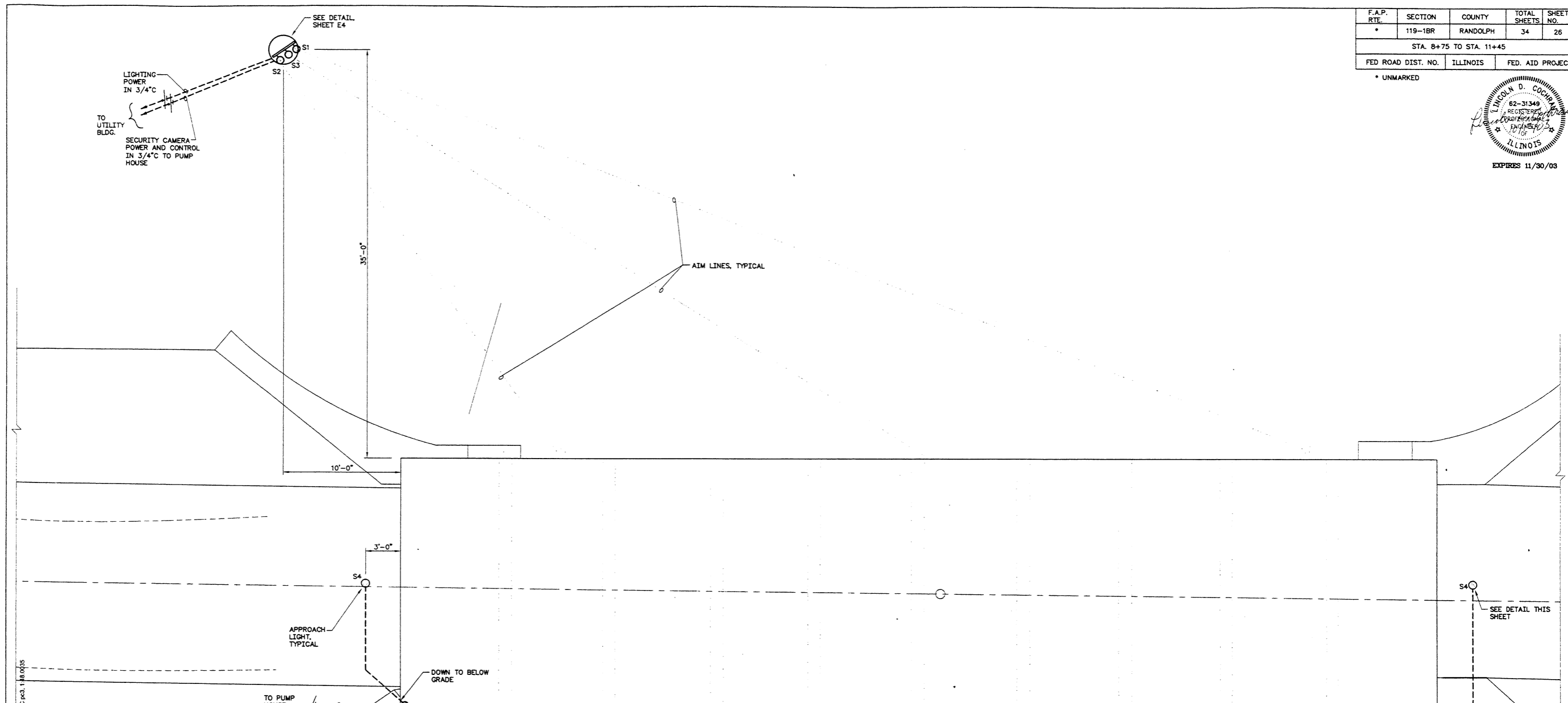
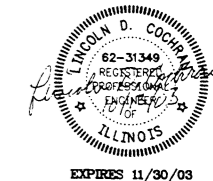
**SPECIAL NOTE**

CONTRACTOR SHALL VERIFY ALL ELECTRICAL POWER SYSTEM REQUIREMENTS WITH ILLINOIS POWER COMPANY AND VERIZON NORTH INC. PRIOR TO BIDDING. ELECTRICAL CONTRACTOR SHALL PREPARE A WORK SCHEDULE OUTLINING THE STEP BY STEP SEQUENCE OF ALL NEW WORK AS IT PERTAINS TO THE SERVICE FOR THIS PROJECT FOR REVIEW BY THE UTILITY CO'S, THE OWNER & THE A/E PRIOR TO COMMENCING WORK.

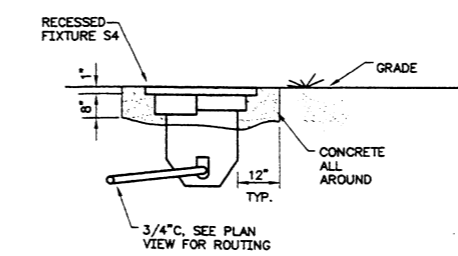
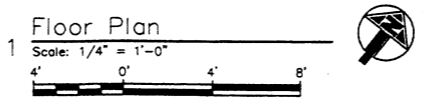
**ELECTRICAL DISTRIBUTION SYSTEM**  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	119-1BR	RANDOLPH	34	26
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

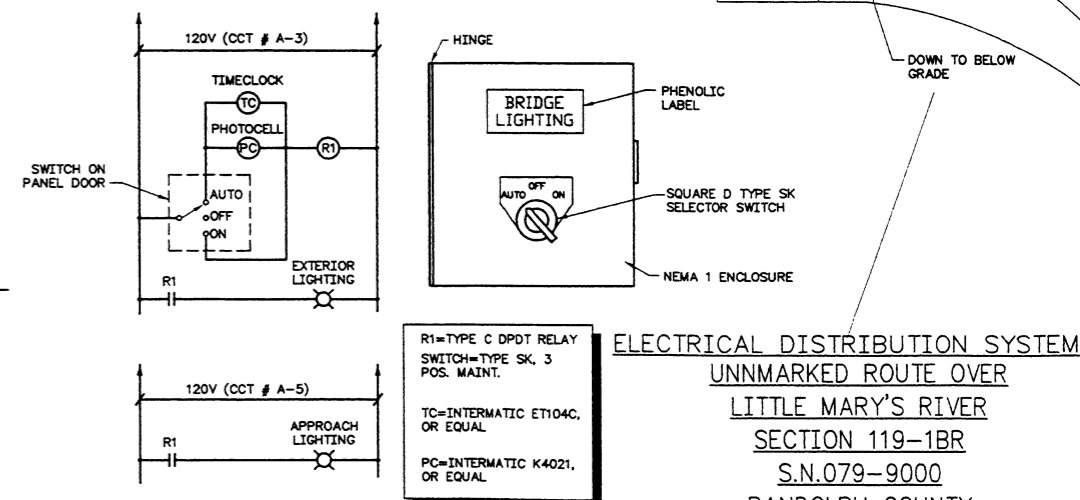
• UNMARKED



LIGHTING SCHEDULE	
F1	4' ENCLOSED FIBERGLASS, GASKETED FIXTURE, ACRYLIC DIFFUSER, CAPTIVE CORROSION RESISTANT CAM ACTION LATCHES, COLD WEATHER ELECTRONIC BALLAST, DAMP LOCATION LISTED, TWO 32W, T8 LAMPS, EMERGENCY BATTERY BACKUP BALLAST AS INDICATED BY "EM" LITHONIA #DM SERIES OR EQUAL BY METALUX, COLUMBIA OR DAY-BRITE
S1	ARCHITECTURAL FLOODLIGHT, ELECTRONIC BALLAST, DIE CAST HOUSING, 2" TENON MOUNTED HEAVY DUTY SWIVEL, FIXTURES MOUNTED ON COMMON CROSSBAR, WET LOCATION LISTED.
S2	FIXED HOOD, S1=NARROW SPOT, S2=NARROW FLOOD, S3=SPOT
S3	S1 = KIM #AFL26/250MHxx, OR APPROVED EQUAL S2 = KIM #AFL24/250MHxx, OR APPROVED EQUAL S3 = KIM #AFL25/250MHxx, OR APPROVED EQUAL
	POLE = 12"x4 1/2" DIA. .12" THK. ROUND STRAIGHT STEEL POLE, 3"x5" HANDHOLE, GROUNDING NUT, DARK BRONZE, BASE AND ANCHOR BOLTS, TENON TO MATCH LIGHTING BRACKETS, LITHONIA RSS12 4-5B, OR EQUAL
S4	RECESSED 12" DIA. CAST BRONZE, GASKETED FIXTURE, TRAFFIC RATED, 360° DIRECTIONAL LENS PATTERN, ELECTRONIC BALLAST, WET LOCATION LISTED, ONE 70W, MH LAMP, KIM #LTV22-WW-GM30 SERIES OR APPROVED EQUAL



2 Recessed Fixture S4 Detail  
SCALE: NONE



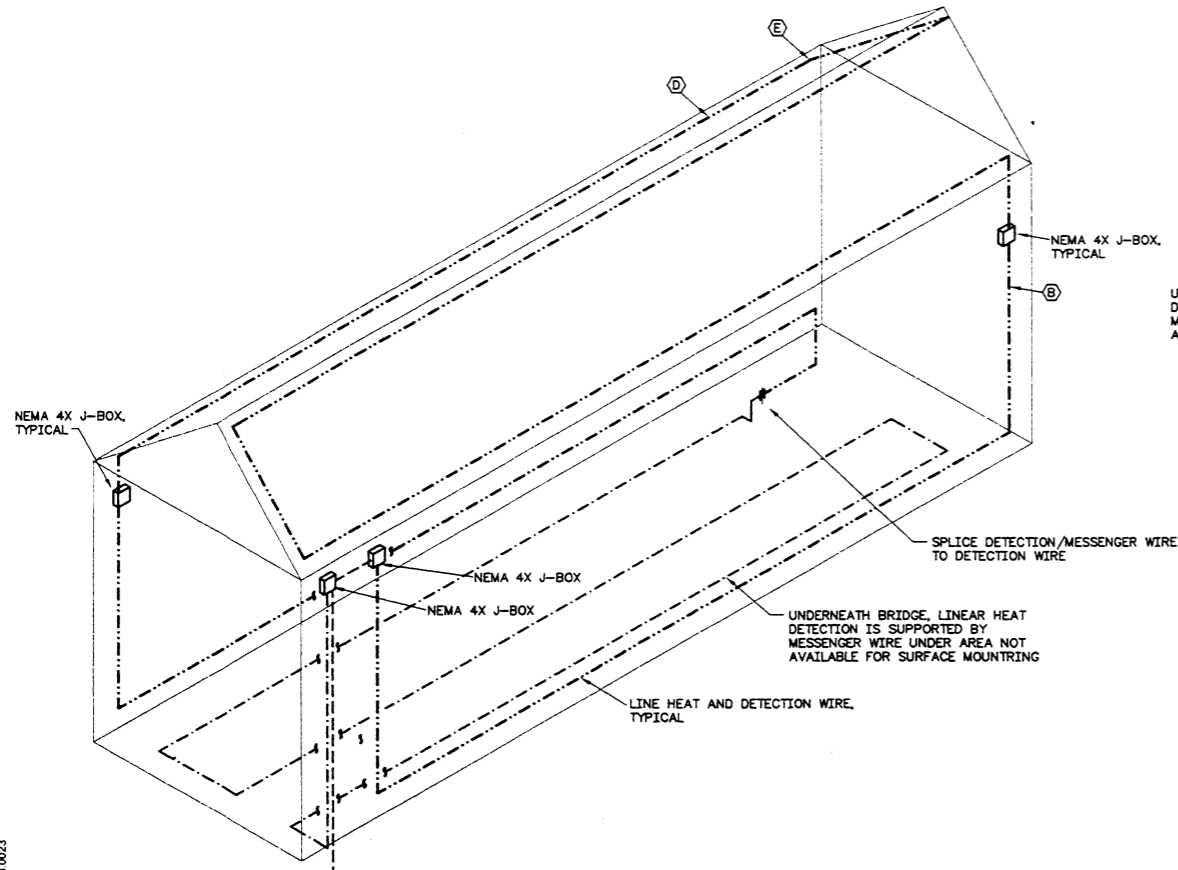
3 Lighting Control Panel  
No to Scale

ELECTRICAL DISTRIBUTION SYSTEM  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

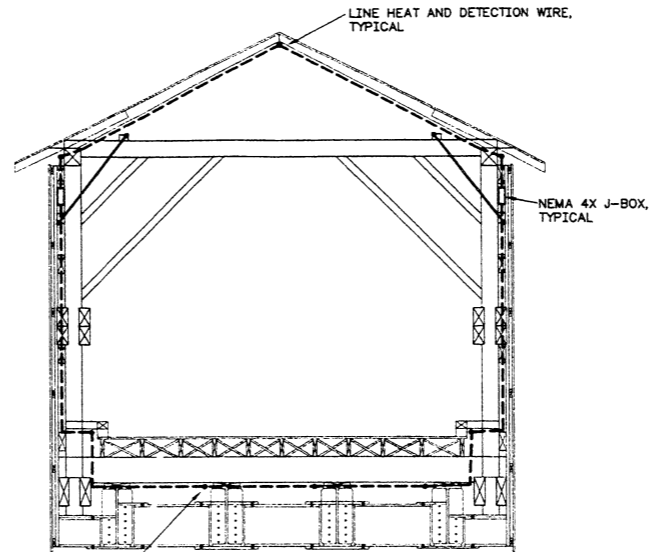


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	27
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* UNMARKED

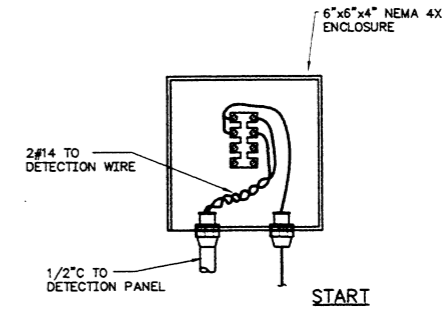


1 Detection Wire Isometric  
Not to Scale

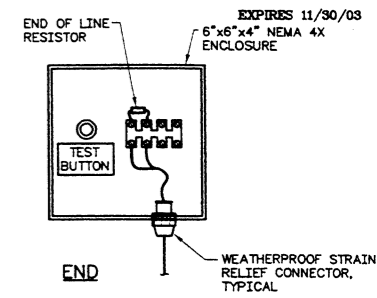


UNDERNEATH BRIDGE, LINEAR HEAT DETECTION IS SUPPORTED BY MESSENGER WIRE UNDER AREA NOT AVAILABLE FOR SURFACE MOUNTING

2 End Elevation  
Scale: 1/4" = 1'-0"



4 Zone Box Detail  
Not to Scale

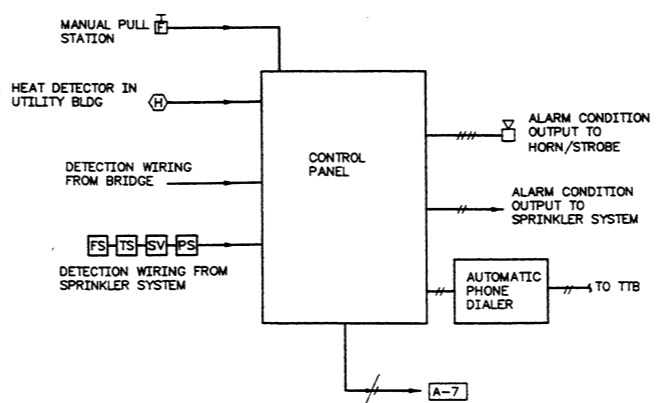


5 Test Zone/EOL Box Detail  
Not to Scale

- KEYED NOTES**
- (A) PROVIDE WEATHERPROOF NEMA 4 ENCLOSURE TO PROTECT DETECTION WIRING FROM MOISTURE. PIPE 1/2°C WITH DETECTION WIRE INTO THE NEMA 4 ENCLOSURE. USE WATERTIGHT STRAIN RELIEF CONNECTOR TO ENSURE A WATERTIGHT CONNECTION FOR DETECTION WIRE TO EXIT THE NEMA 4 ENCLOSURE
  - (B) PROVIDE 1/2°C TO PROTECT DETECTION WIRE FROM BEING TAMPERED WITH. EXTEND CONDUIT DOWN TO NEMA 4 ENCLOSURE LOCATED ON THE UNDERSIDE OF THE WOOD CURB
  - (C) PROVIDE 2#14 WIRING IN 1/2°C FROM DETECTION PANEL TERMINALS TO PROTECTIVE ZONE BOX, SEE DETAILS THIS SHEET
  - (D) INSTALL STAINLESS STEEL OHS LINE CLIPS AT 15' AND 20' INTERVALS AS THE INTERMEDIATE FASTENERS BETWEEN CORNER MOUNTED WAW CLIPS, WHICH PROVIDE MAIN SUPPORT
  - (E) INSTALL WALL CLIP FASTENERS AT CORNERS (TURNS) OF DETECTION CABLE

**SPECIAL NOTE**  
MOUNT ALL COMPONENTS ON BRIDGE SO TO BE CONCEALED AS MUCH AS POSSIBLE. ANY EXPOSED CONDUITS OR J-BOXES SHALL BE PAINTED DARK BROWN

**MANUFACTURER NOTE**  
THE DETECTION SYSTEM SHOWN IS MODELED AFTER DETECTION SYSTEMS BY PROTECTO FIRESYSTEMS MANUFACTURING CO. INC., HANOVER, MASSACHUSETTS. INSTALLATION AND EQUIPMENT REQUIREMENTS MAY VARY PER MANUFACTURER.

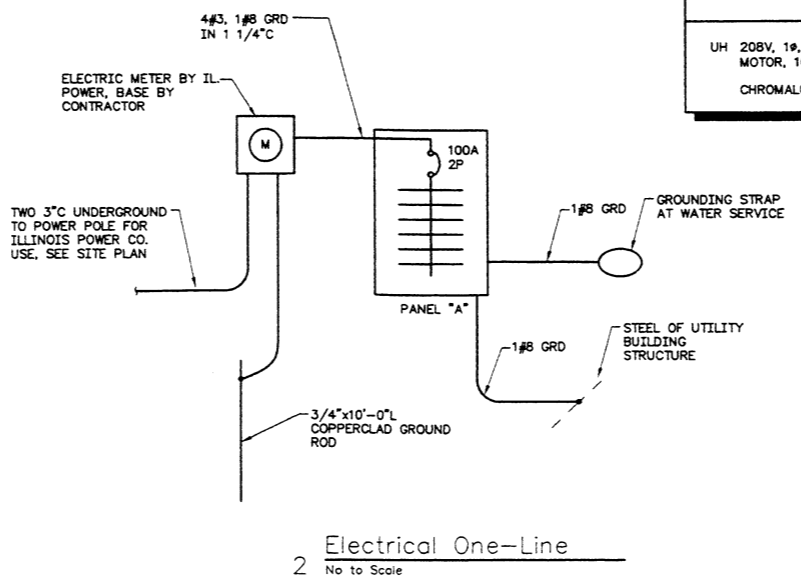
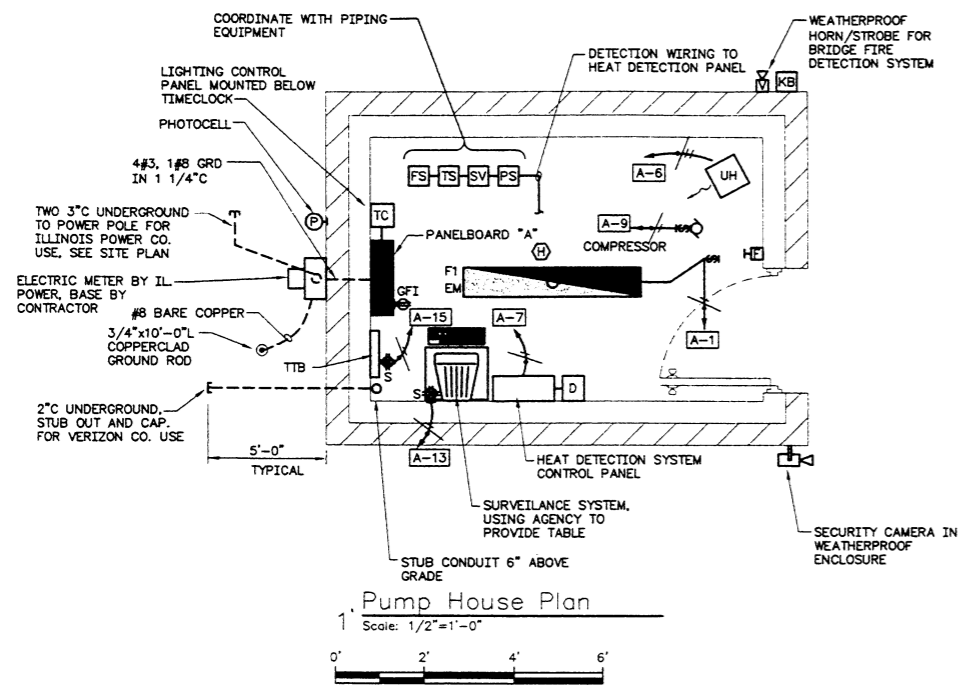


3 Heat Detection System  
Not to Scale

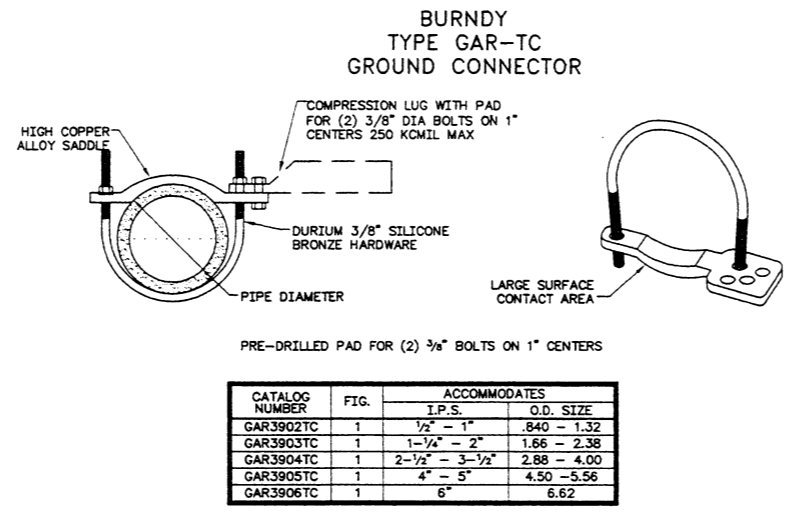
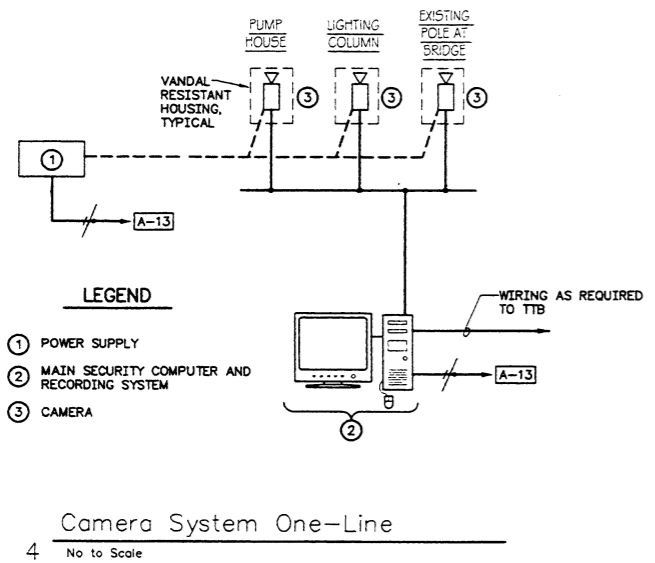
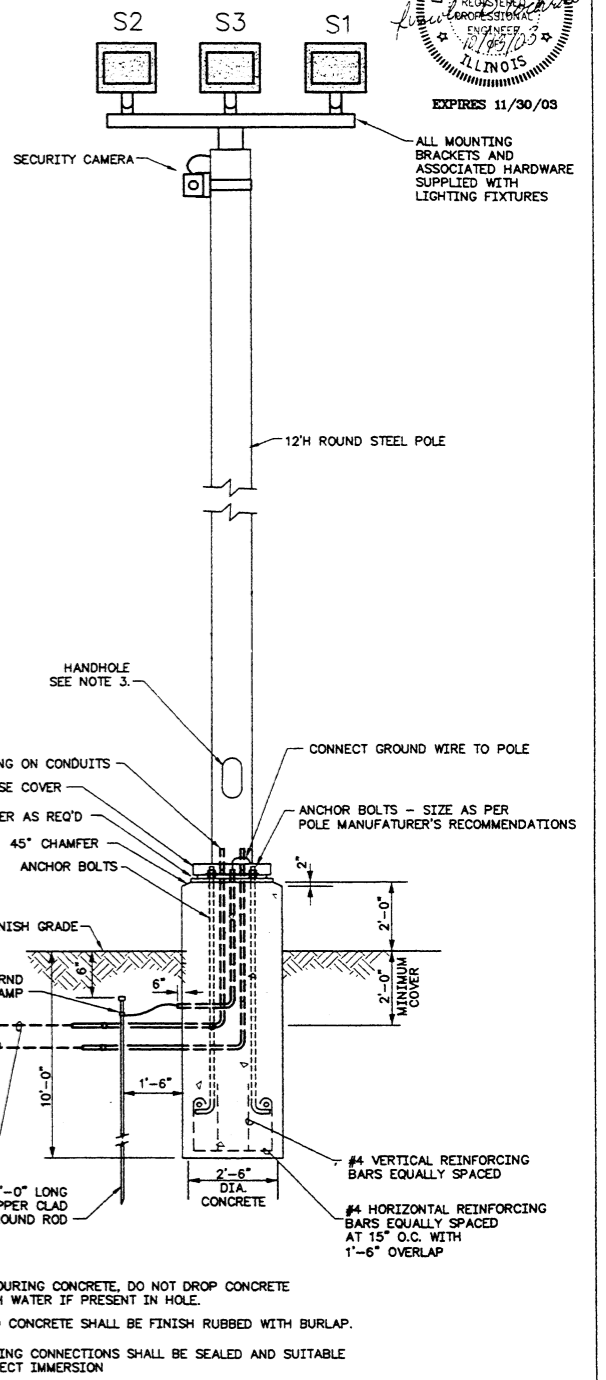
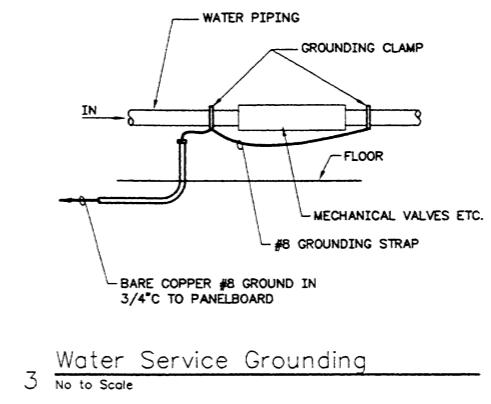
X:\Little Marys River Covered Bridge\02059shens\electrician\27.dwg, 10/13/2003 4:16:34 PM, r86, HP DesignJet 1050C p33, 148 0023

ELECTRICAL DISTRIBUTION SYSTEM  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

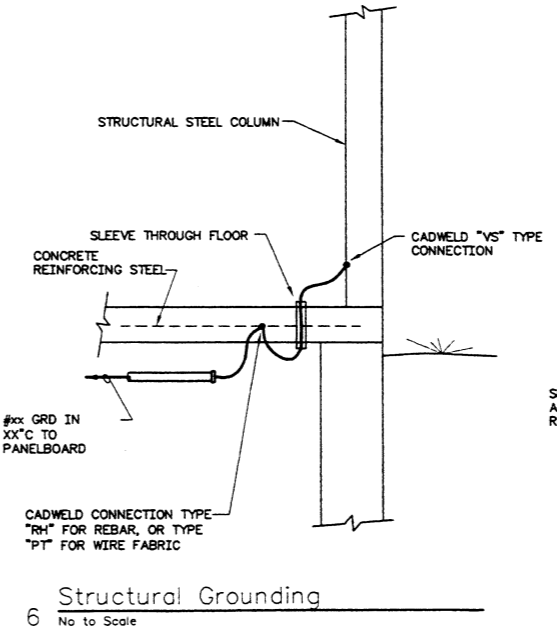
\* UNMARKED



**EQUIPMENT LEGEND**  
 UH 208V, 1 $\phi$ , 2.6KW HEATER WITH INTEGRAL 120V CONTROL CIRCUIT AND THERMOSTAT, FAN MOTOR, 1000 RPM, 310 CFM, THROW 12', AND SAFETY THERMAL CUTOFF  
 CHROMALOX #LUH SERIES, OR EQUAL



CATALOG NUMBER	FIG.	ACCOMMODATES	I.P.S.	O.D. SIZE
GAR3902TC	1	1/2" - 1"	0.84	1.32
GAR3903TC	1	1-1/4" - 2"	1.66	2.38
GAR3904TC	1	2-1/2" - 3-1/2"	2.88	4.00
GAR3905TC	1	4" - 5"	4.50	5.56
GAR3906TC	1	6"	6.62	



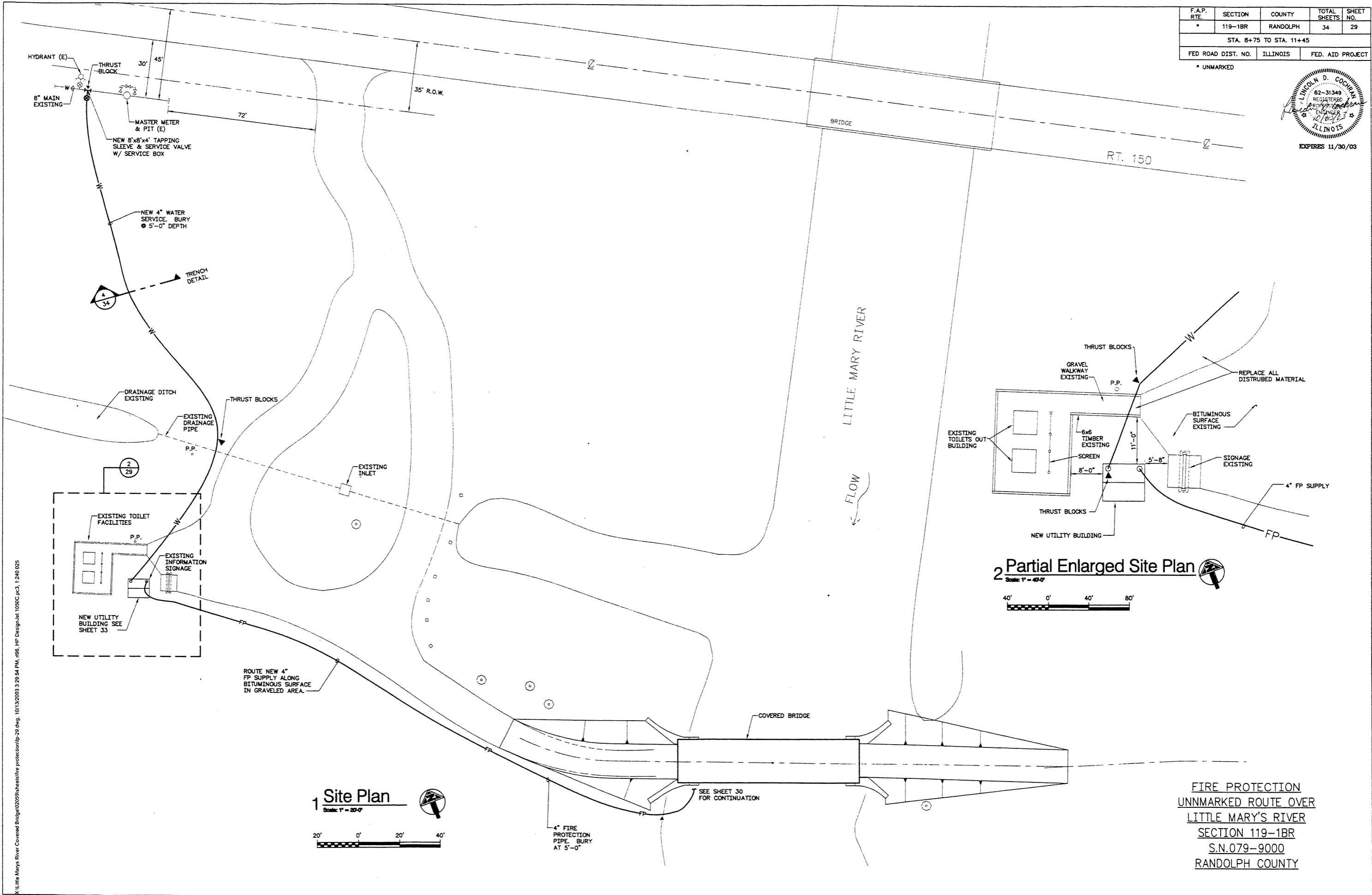
PANEL A PANELBOARD SCHEDULE										OPTIONS:		
WIRE SIZE		GRD SIZE	C.	ITEM	POLE	AMP RAT.	CKT NO.	LEFT PHASE	RIGHT PHASE	ITEM	WIRE SIZE	GRD SIZE
#12	#12	3/4"		PUMP HOUSE LIGHTING	1	20	1	0.64	0.83	TVSS	3/4"	#10
#12	#12	3/4"		BRIDGE EXTERIOR LIGHTING	1	20	3	0.64	0.83			
#12	#12	3/4"		BRIDGE INTERIOR LIGHTING	1	20	5	0.68	0.83	UNIT HEATER	3/4"	#12
#12	#12	3/4"		HEAT DETECTION CONTROL PANEL	1	20	7	0.50				
#12	#12	3/4"		COMPRESSOR	1	20	9	0.70		SPARE		
#12	#12	3/4"		RECEPTACLES	1	20	11	0.20		SPACE		
#12	#12	3/4"		SECURITY COMPUTER	1	20	13	1.00		SPACE		
#12	#12	3/4"		TTB	1	20	15	0.50		SPACE		
#12	#12	3/4"		FIRE SUPPRESSION CONTROL PANEL	1	20	17	0.50		SPACE		
#12	#12	3/4"		SPARE	1	20	19			SPACE		
				FEEDER		TOP FEED		BOTTOM FEED				
				WIRE SIZE		GRD SIZE		CNDDT SIZE				
				#3		#8		1 1/4"				

X:\Little Marys River Covered Bridge\02059\electrical\28.dwg, 10/13/2003 3:44:35 PM, r86, HP DesignJet 1050C, p3, 1,24,0029

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	29
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

UNMARKED

EXPIRES 11/30/03



X:\Little Marys River Covered Bridge\0205\sheets\fire protection\p-29.dwg, 10/13/2003 3:29:54 PM, r98, HP DesignJet 1050C.pcl, 1:240 025

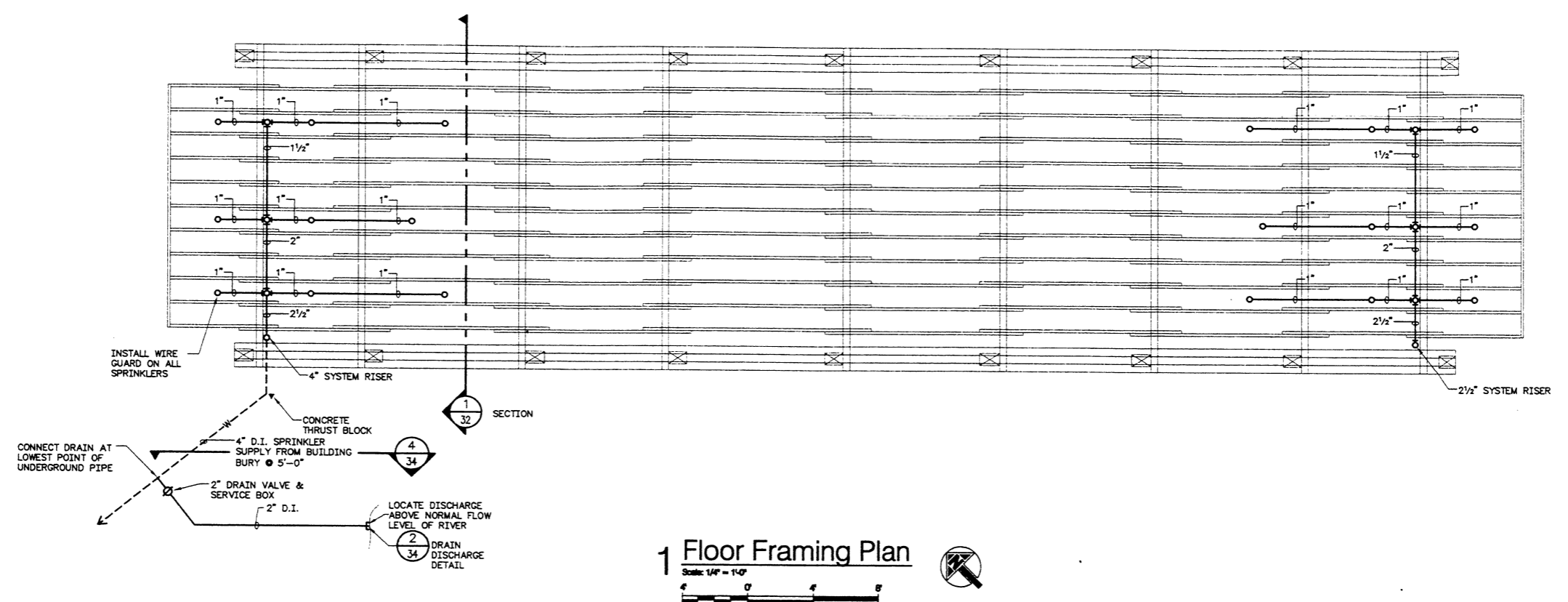
**1 Site Plan**  
Scale: 1" = 20'-0"

**2 Partial Enlarged Site Plan**  
Scale: 1" = 40'-0"

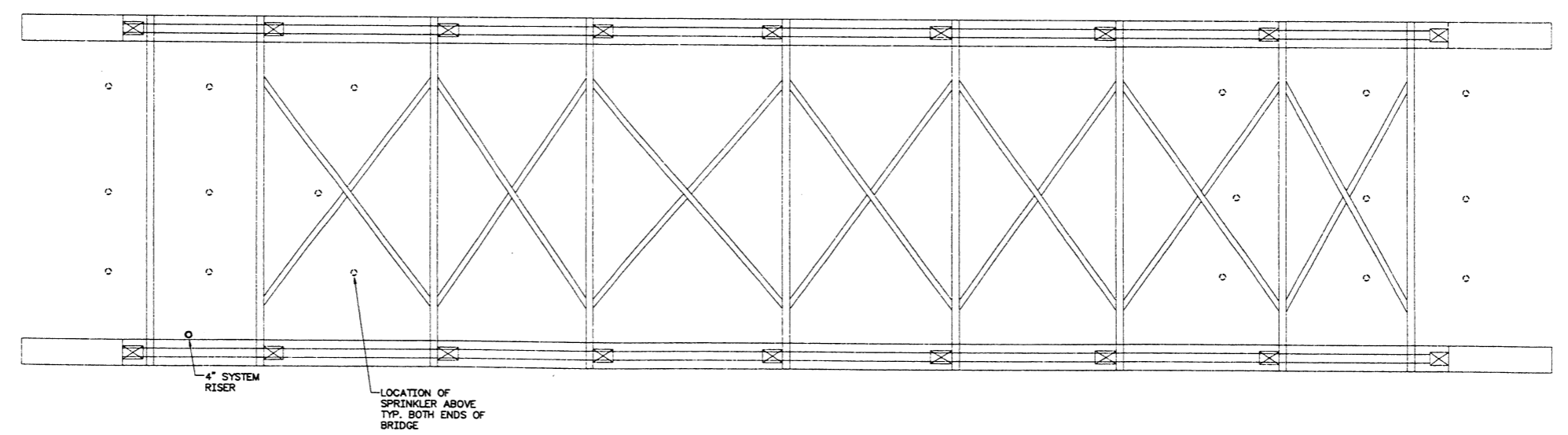
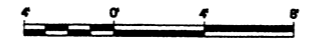
FIRE PROTECTION  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	30
STA. 8+75 TO STA. 11+45				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* UNMARKED



**1 Floor Framing Plan**  
Scale: 1/4" = 1'-0"



**1 Floor Bracing Plan**  
Scale: 1/4" = 1'-0"

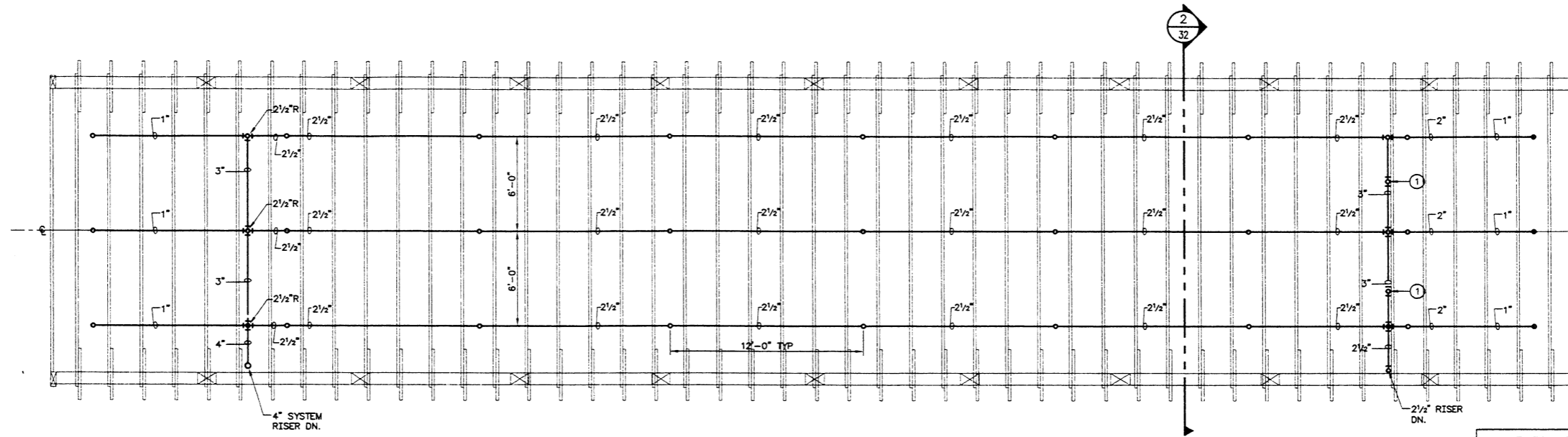
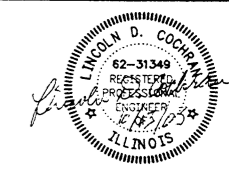


UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

X:\Little Marys River Covered Bridge\02959\sheet\fire protection\p-30.dwg, 10/13/2003 3:38:59 PM, r196, HP DesignJet 1090C.pc3, 1:48:0036

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	31
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

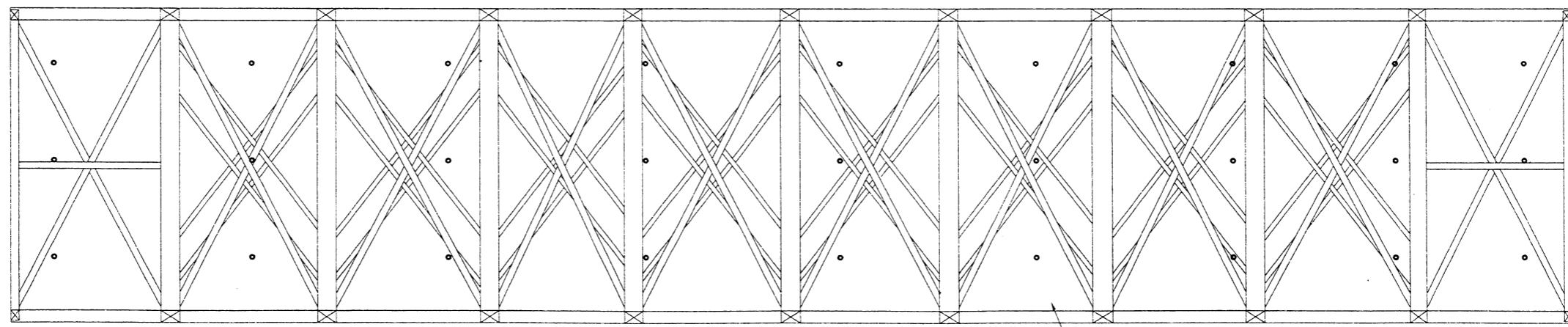
\* UNMARKED



**1 Roof Framing Plan**  
 Scale: 1/4" = 1'-0"

**SPRINKLER DESIGN**  
 .2 GPM/SF @ 1500 SF ORDINARY  
 HAZZARD GROUP 1

**KEYED NEW WORK NOTES**  
 ① INSTALL ACCELERATORS IN MAIN CROSSOVER PIPE. CONCEAL ON TOP NEAR FRAMING.



SHOWN FOR INFORMATION & SPRINKLER LOCATION TO FRAMING MEMBERS

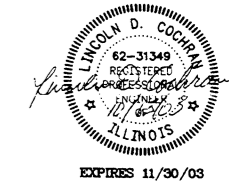
**2 Top Chord Bracing Plan**  
 Scale: 1/4" = 1'-0"

UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 SECTION 119-1BR  
 S.N.079-9000  
 RANDOLPH COUNTY

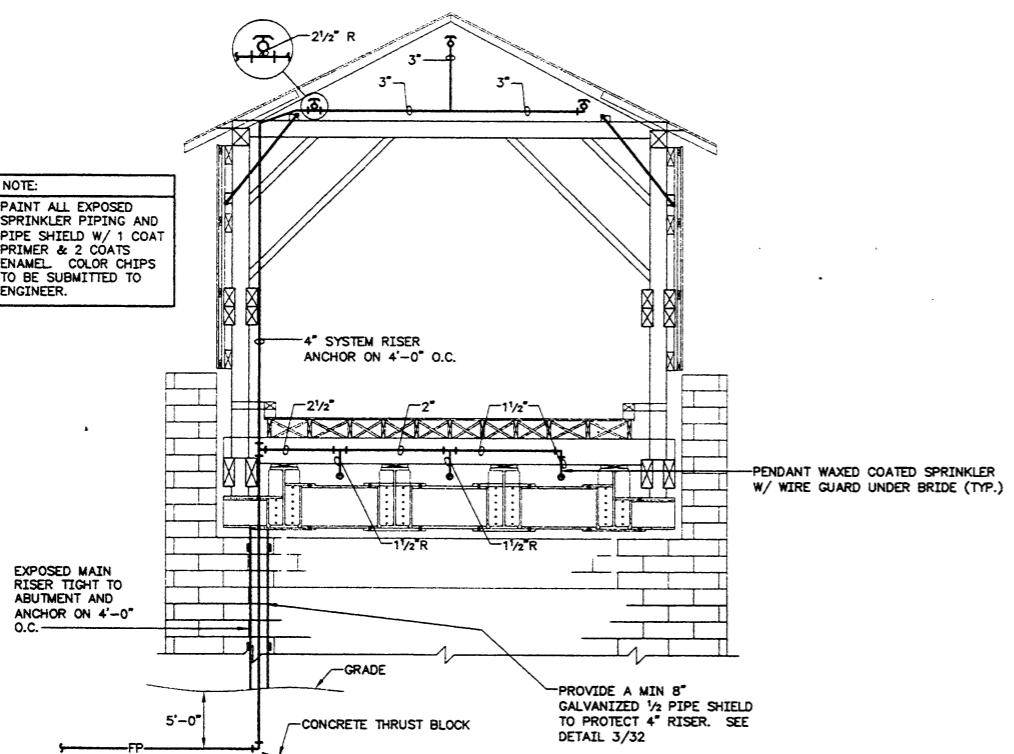
X:\Little Marys River Covered Bridge\0205\sheet\fire protection\p-31.dwg, 10/13/2003 3:37:17 PM, rbb, HP Design\let 1050C pc3, 148.0046

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	32
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

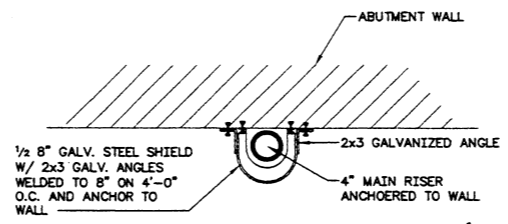
\* UNMARKED



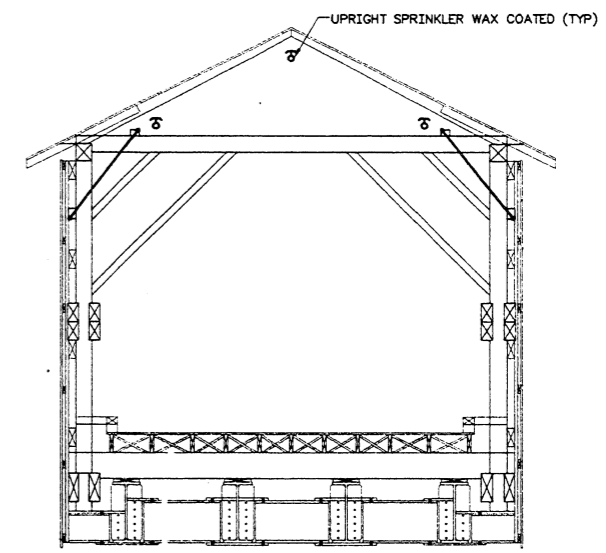
**NOTE:**  
 PAINT ALL EXPOSED  
 SPRINKLER PIPING AND  
 PIPE SHIELD W/ 1 COAT  
 PRIMER & 2 COATS  
 ENAMEL COLOR CHIPS  
 TO BE SUBMITTED TO  
 ENGINEER.



**1 Cross Section at Abutments**  
 Scale: 1/4" = 1'-0"



**2 Cross Section Near Midspan**  
 Scale: 1" = 1'-0"



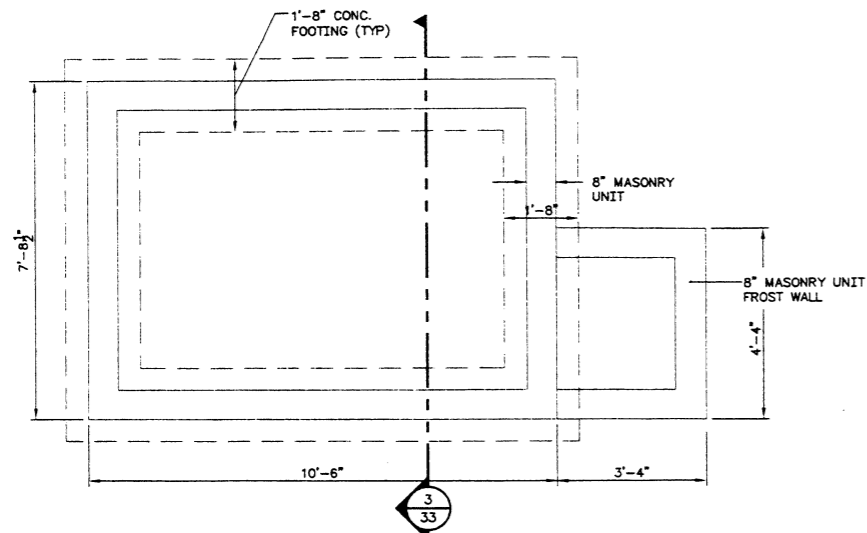
**2 Cross Section Near Midspan**  
 Scale: 1/4" = 1'-0"



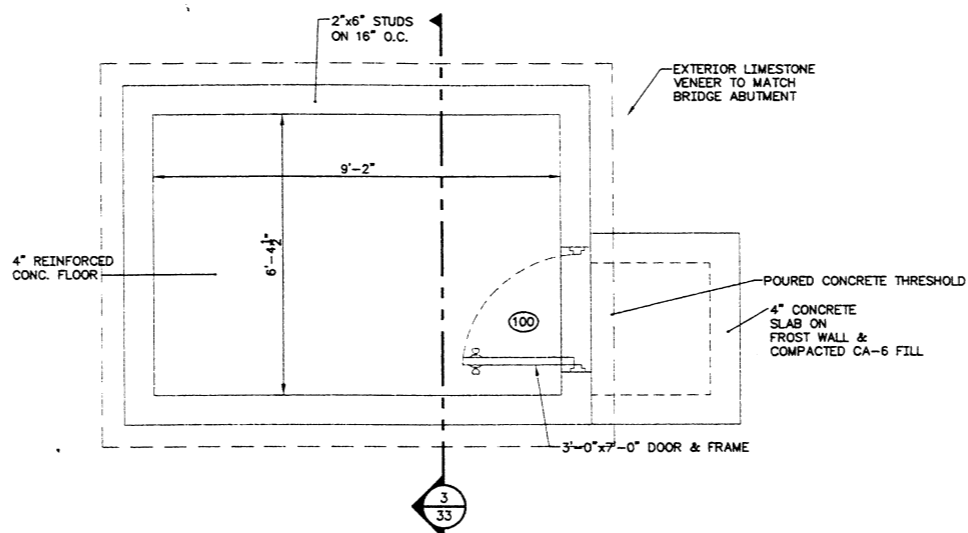
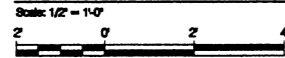
X:\Little Marys River Covered Bridge\02059\sheet\fire protection\fp-32.dwg, 10/13/2003, 3:37:38 PM, r86, HP Design\el 1056C.pc3, 1:48:0057

FIRE PROTECTION  
 UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 SECTION 119-1BR  
 S.N.079-9000  
 RANDOLPH COUNTY





**1 Mechanical Building Structure**

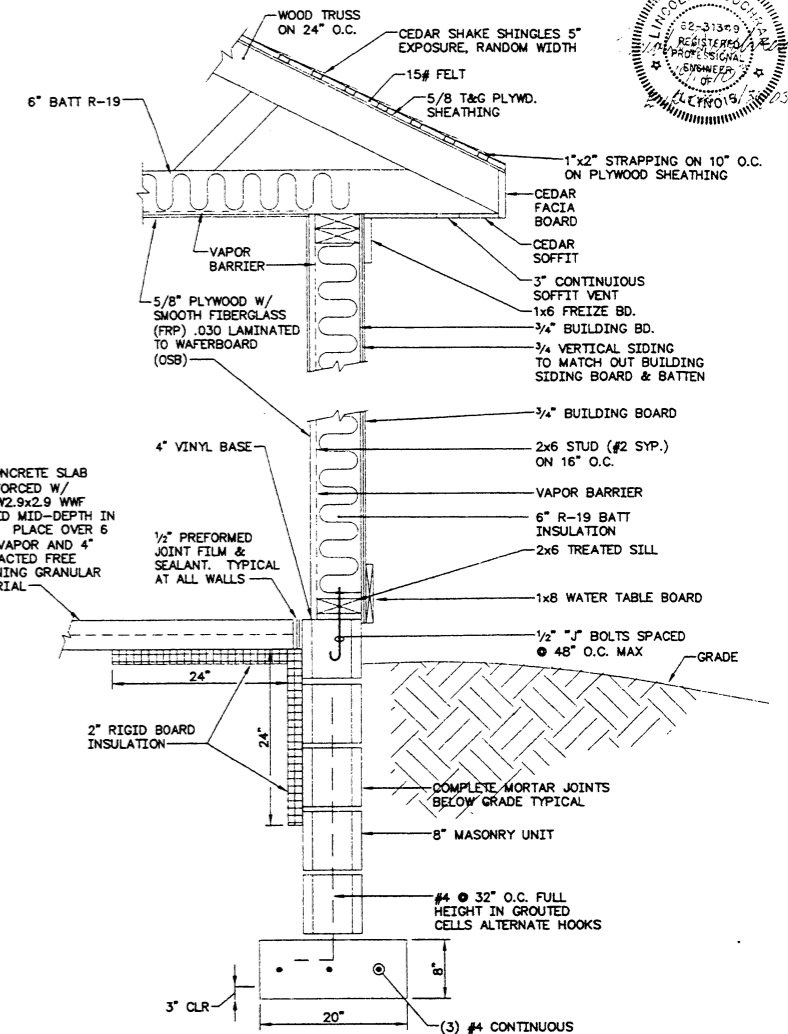


**2 Mechanical Building Structure**

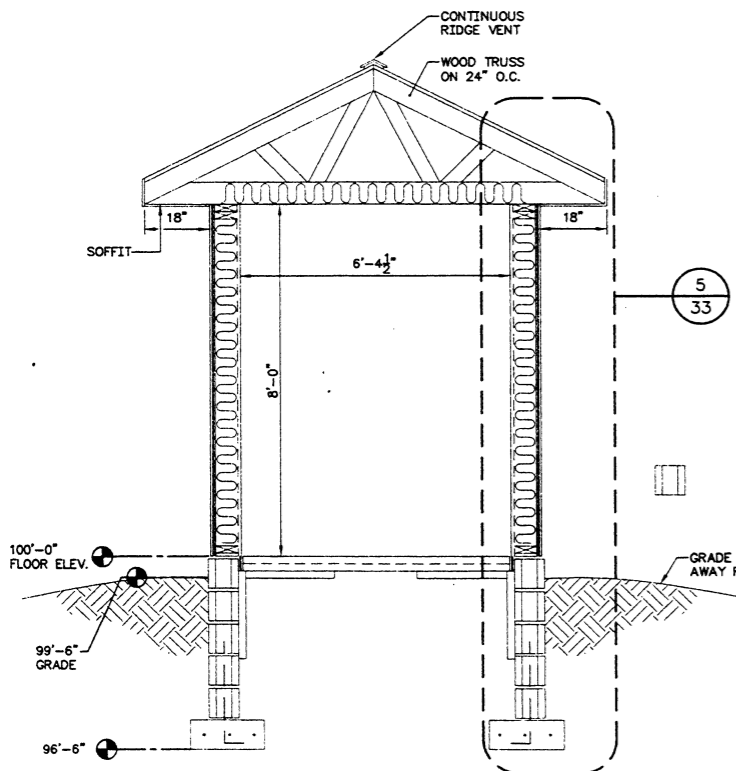
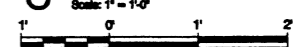


DOOR AND FRAME SCHEDULE										
NUMBER	LOCATION	DOOR				FRAME				
		WIDTH	HEIGHT	THK.	TYPE	CORE	MTL.	FINISH	FRAME DEPTH	FINISH
100	EXTERIOR	3'-0"	7'-0"	1 1/4"	A	INSUL	HM	PT	5 3/4"	PT

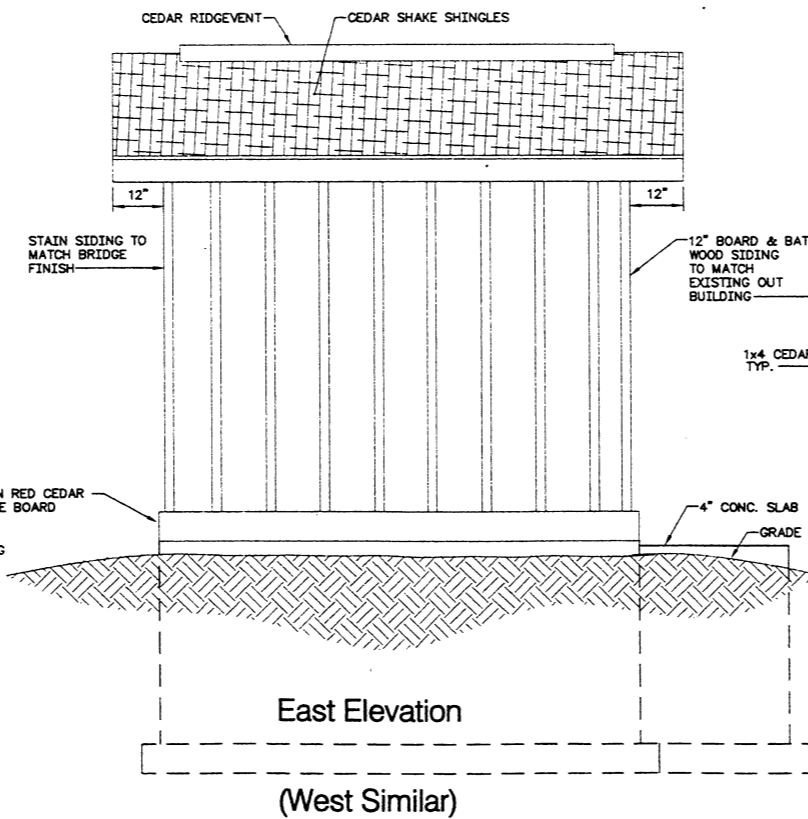
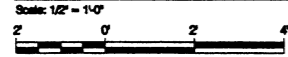
WEATHER STRIP DOOR FRAME AND THRESHOLD SWEEP



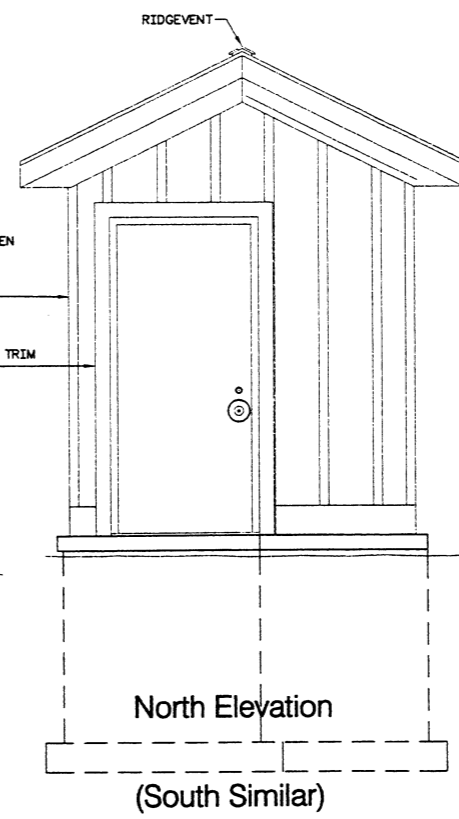
**5 Wall Section**



**3 Mechanical Building Structure**

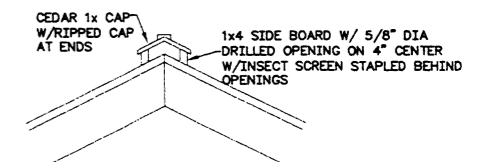


East Elevation  
(West Similar)



North Elevation  
(South Similar)

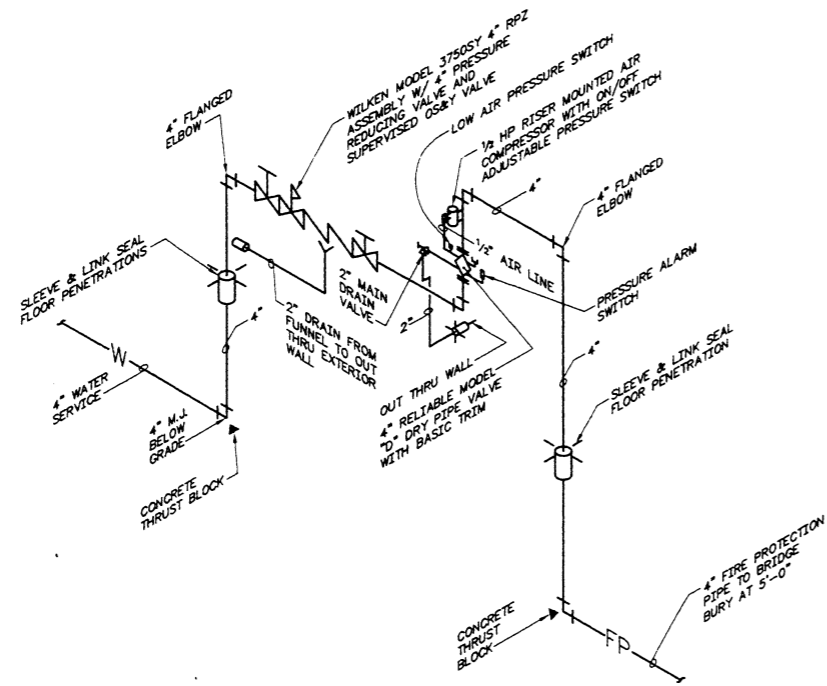
**6 RIDGE VENT DETAIL**



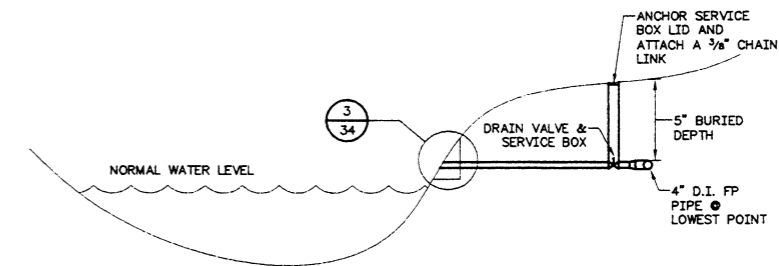
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	119-1BR	RANDOLPH	34	34
STA. 8+75 TO STA. 11+45				
FED ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

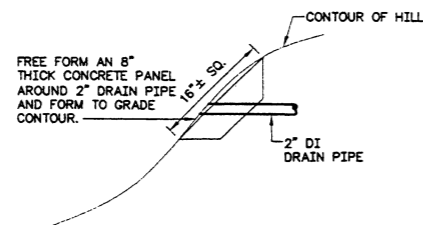
\* UNMARKED



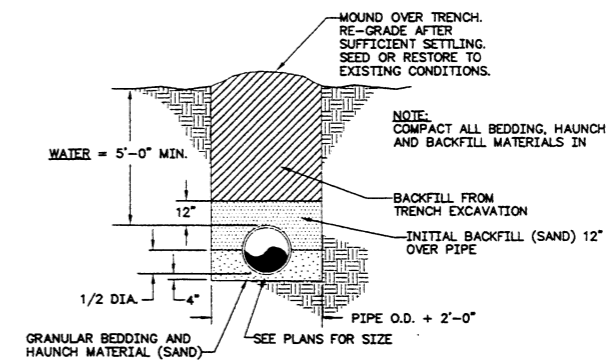
**1 Sprinkler Riser Detail**  
Scale: None



**2 Section**  
Scale: None



**3 Discharge Detail**  
Scale: None



**4 Trench Detail - Flexible Pipe (Non-Roadway Areas)**  
Scale: None

UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
SECTION 119-1BR  
S.N.079-9000  
RANDOLPH COUNTY

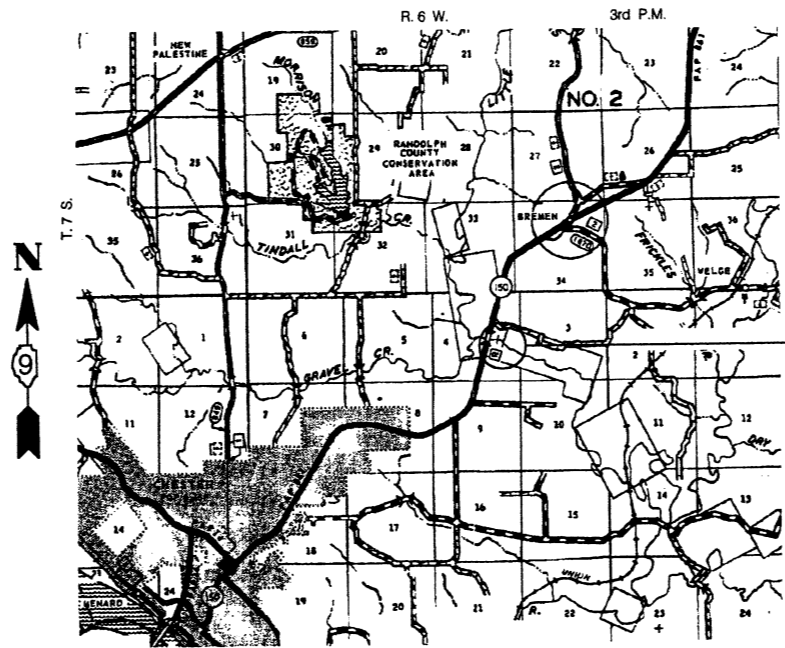
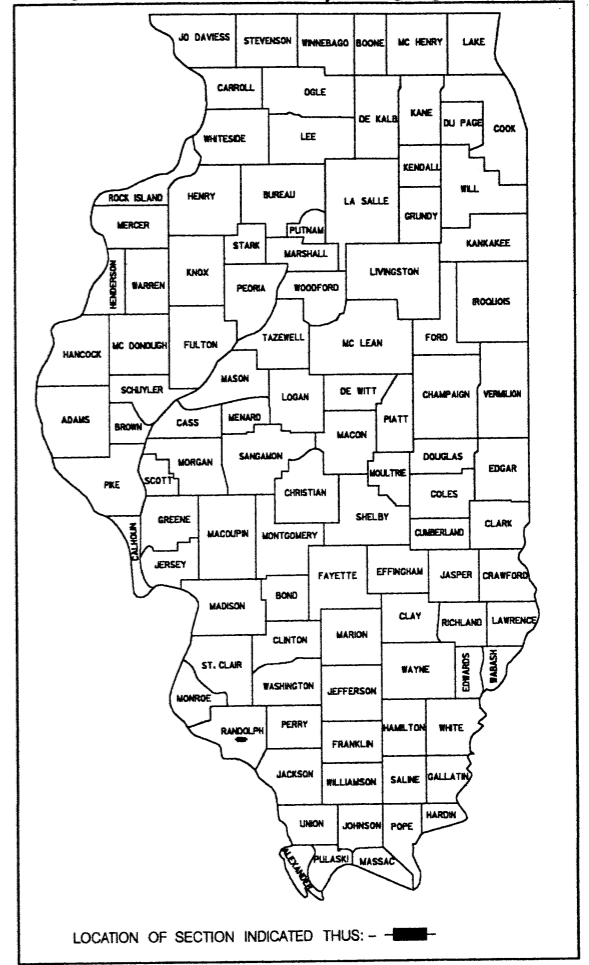
X:\Little Marys River Covered Bridge\020509\sheet\fire protection\p-34.dwg, 10/13/2003 3:38:48 PM, /R6, HP Designer\1059C.pcs, 1:24:0000

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

LITTLE MARY'S RIVER  
COVERED BRIDGE  
RANDOLPH COUNTY

S.N. 079-9000

- INDEX OF SHEETS
- 1 - GENERAL PLAN & ELEVATION
  - 2 - SUBSTRUCTURE LAYOUT
  - 3 - FLOOR FRAMING PLAN
  - 4 - ROOF FRAMING PLAN
  - 5 - TRUSS DETAILS
  - 6 & 7 - DETAILS
  - 8 - SOUTH ABUTMENT
  - 9 - NORTH ABUTMENT



LOCATION MAP  
Scale: 1" = 1 Mile

Years: 2002

Note: Existing plans for this covered bridge were not available. Therefore, in the year 2002 the consultant was hired to go and take field measurements of the bridge. From those measurements, the consultant prepared these existing plans.

The next step was to prepare a T&E plan for the rehabilitation of the covered bridge. That has been completed and the consultant is now preparing final plans for the rehabilitation project.

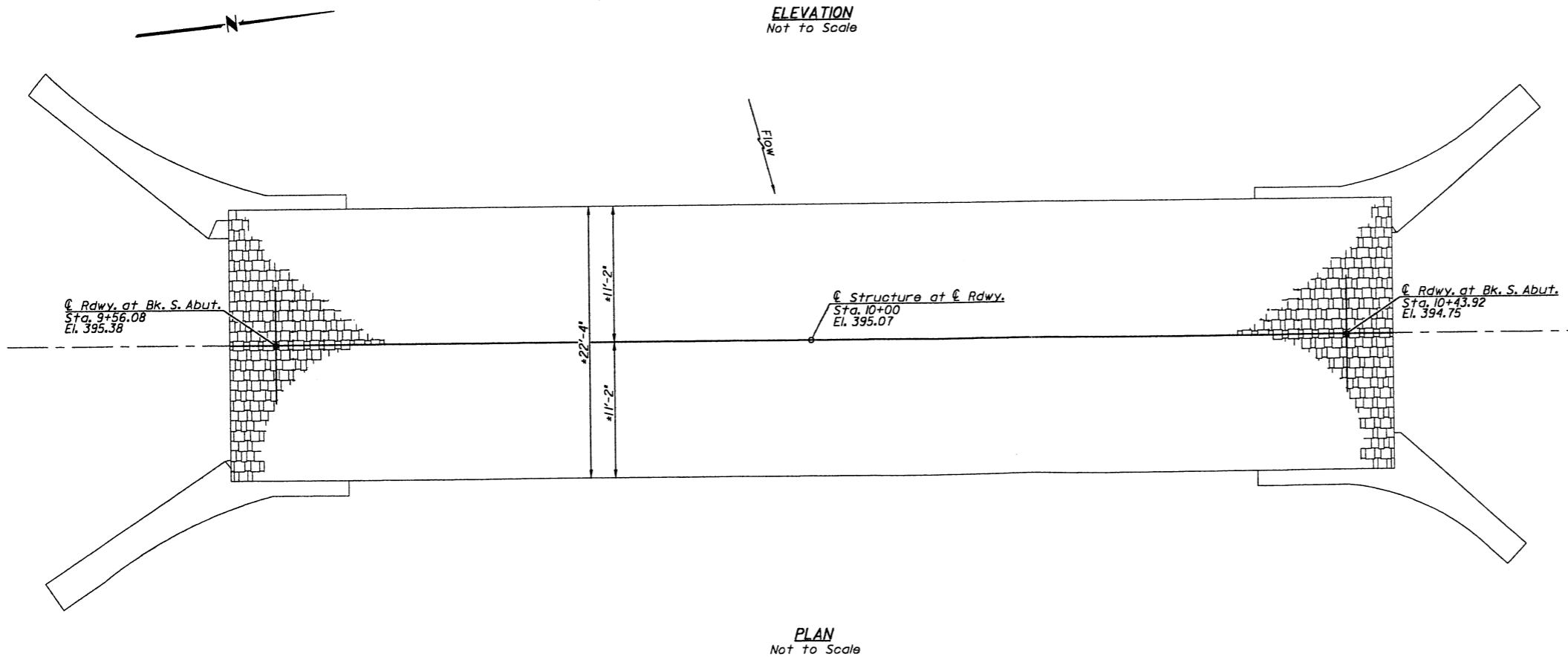
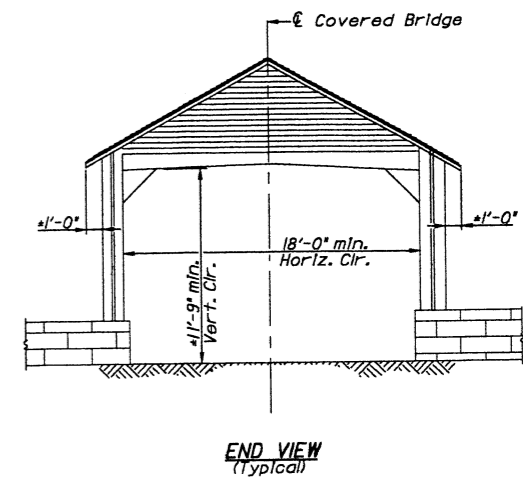
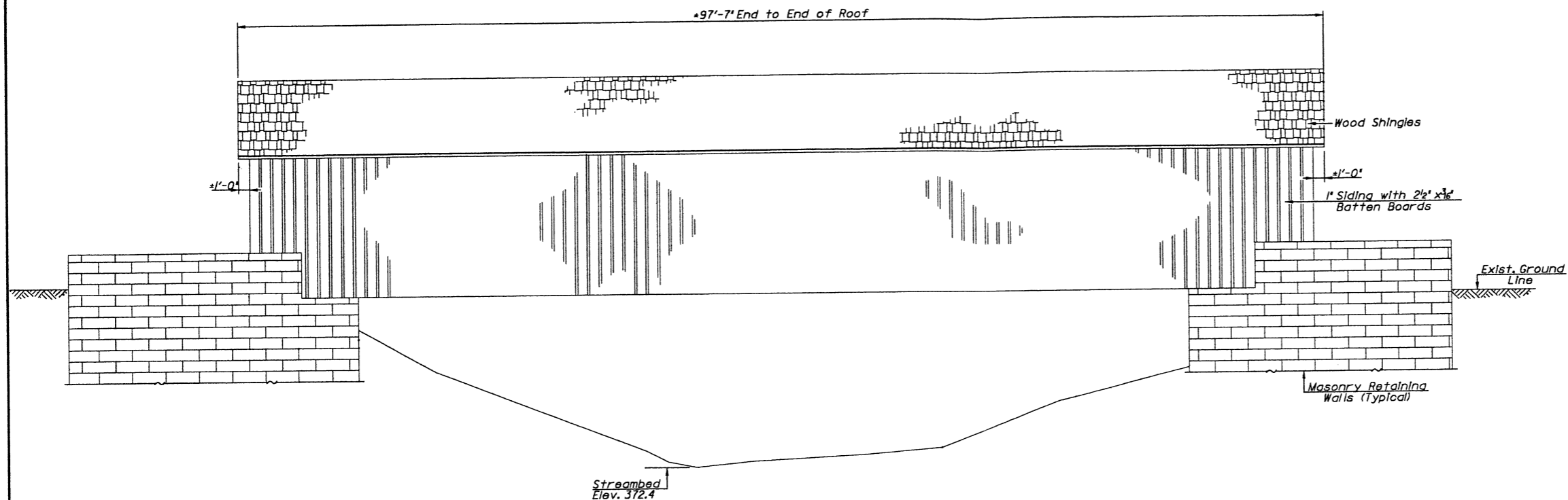
170

FILE NAME: IS GREV-7/23/2002

011-11602

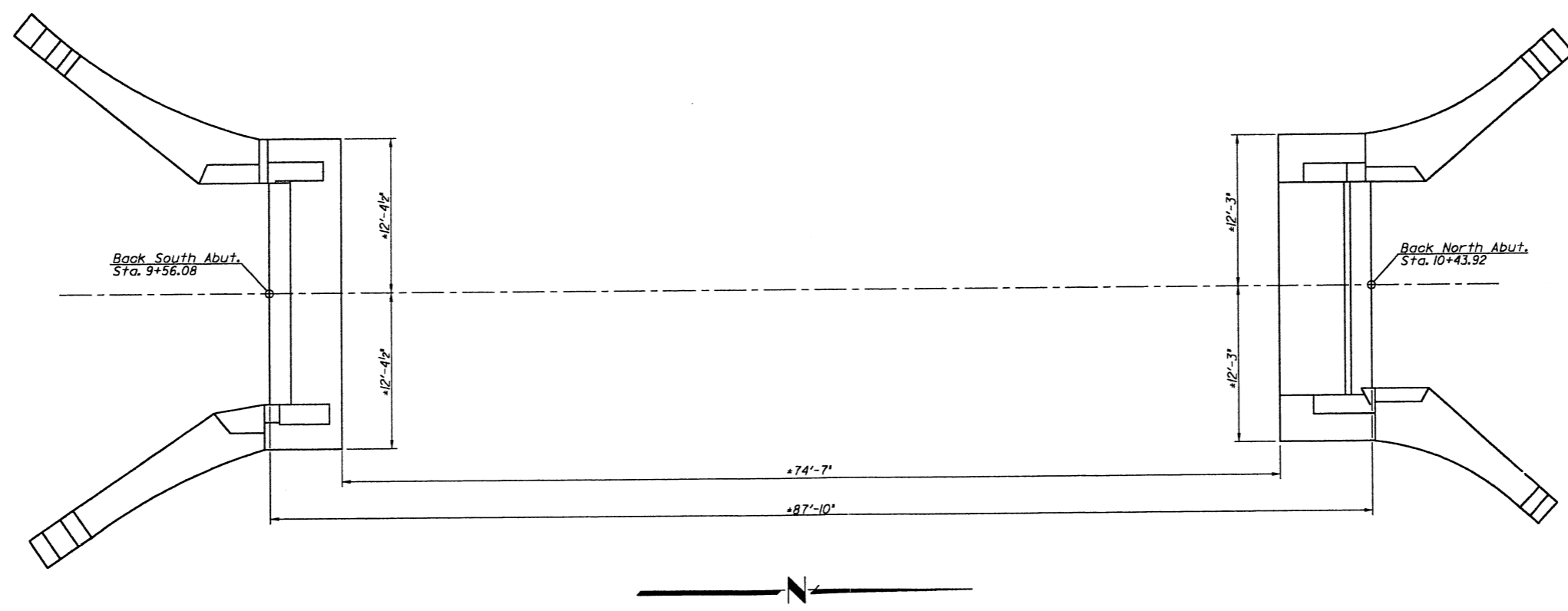
BM #10A - 60d Nail & Washer in Wood Light Pole  
14' Rt. Sta. 9+15 El. 396.32

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		RANDOLPH	9	1
PROJECT				



GENERAL PLAN & ELEVATION  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
S.N. 079-9000  
RANDOLPH COUNTY

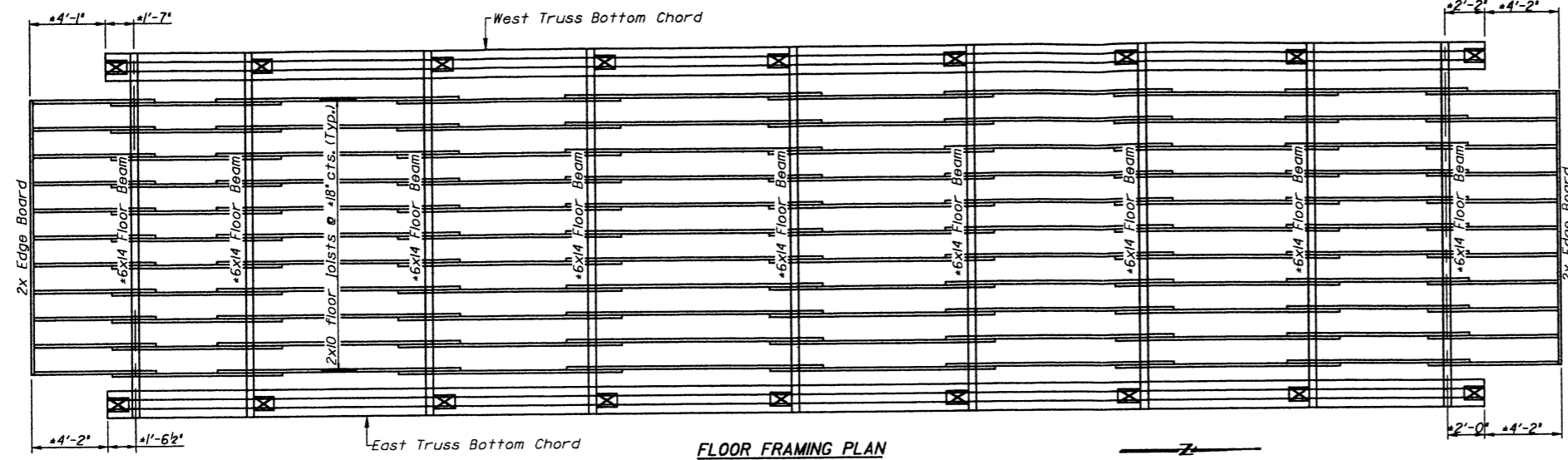
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		RANDOLPH	9	2
PROJECT				



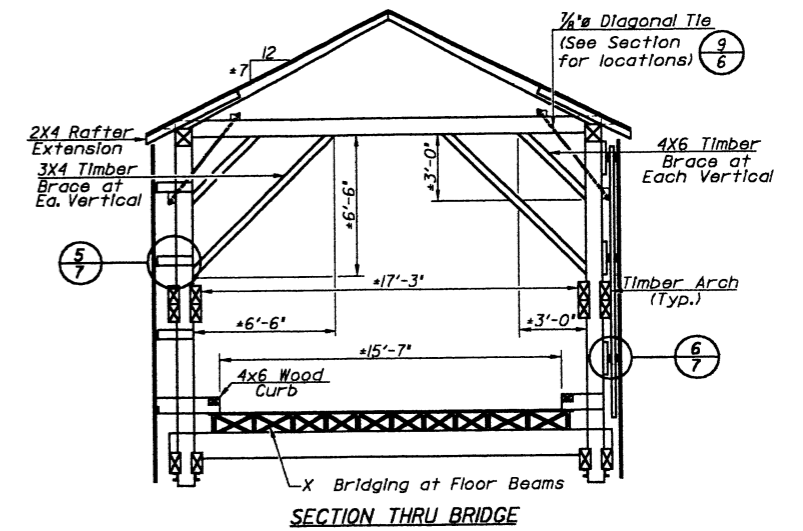
SUBSTRUCTURE LAYOUT

SUBSTRUCTURE  
 UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 S.N. 079-9000  
 RANDOLPH COUNTY

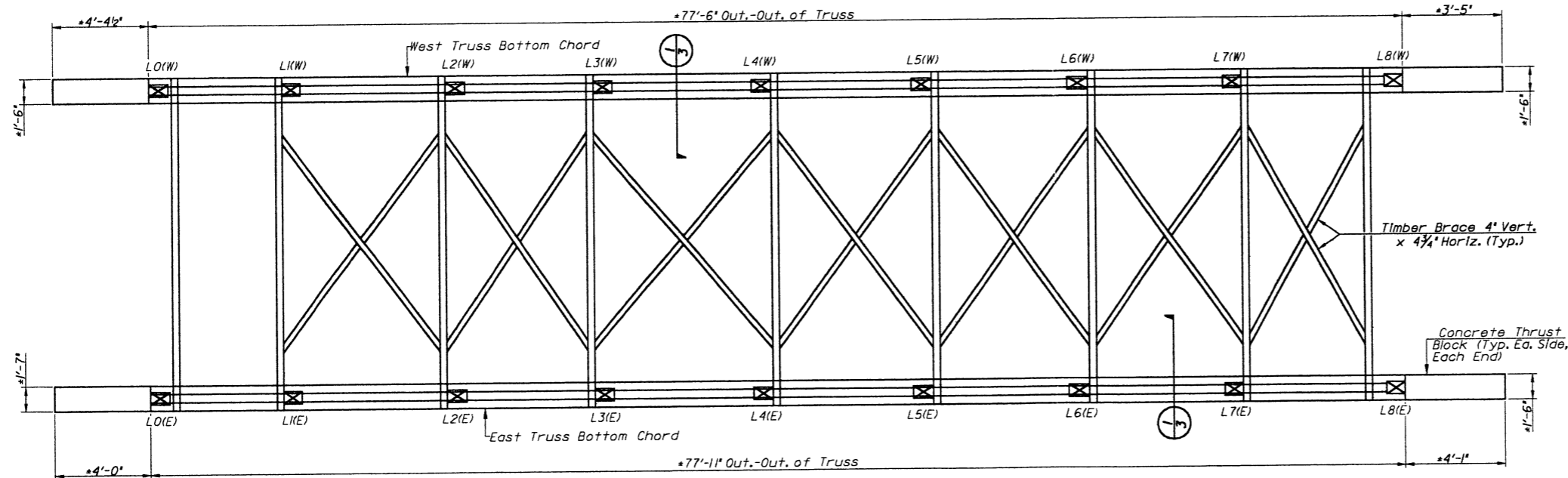
FILE NAME: SUB (REV. 7/23/02)



FLOOR FRAMING PLAN



SECTION THRU BRIDGE

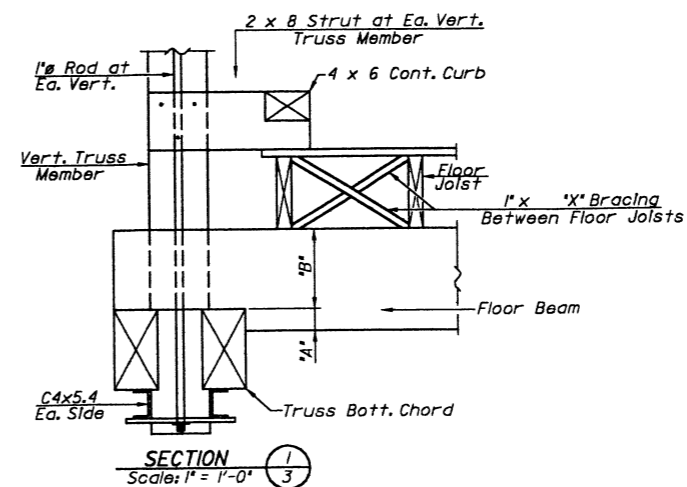


FLOOR BRACING PLAN

Location	Dim 'A'	Dim 'B'
L0(W)	5'	7 3/4'
L1(W)	3 3/4'	9 5/8'
L2(W)	2'	11 1/2'
L3(W)	2'	11 1/2'
L4(W)	2 1/4'	12 1/2'
L5(W)	2'	11 1/2'
L6(W)	1 1/2'	11 1/2'
L7(W)	3 3/4'	9 3/4'
L8(W)	5 1/2'	8'
L0(E)	6 1/4'	7 1/2'
L1(E)	2 1/2'	11 3/4'
L2(E)	2'	12 1/2'
L3(E)	2'	11 1/2'
L4(E)	2'	11 3/4'
L5(E)	2'	12'
L6(E)	2'	11 1/2'
L7(E)	2 1/4'	11 1/4'
L8(E)	5'	9 1/4'

**TOP OF FLOOR ELEVATIONS**

Location	Station	West Curb Line Elev.	Center Bridge Elev.	East Curb Line Elev.
S. End of Deck	9+57.25	395.39	395.38	395.26
L0	9+61.75	395.21	395.18	395.24
L1	9+71.33	395.09	394.99	395.02
L2	9+80.97	394.94	394.71	394.72
L3	9+90.14	394.73	394.53	394.58
L4	9+99.80	394.57	394.34	394.37
L5	10+09.55	394.42	394.20	394.15
L6	10+19.02	394.73	394.20	394.17
L7	10+28.35	394.44	394.15	394.14
L8	10+38.34	394.47	394.30	394.40
N. End of Deck	10+42.75	394.51	394.75	394.60

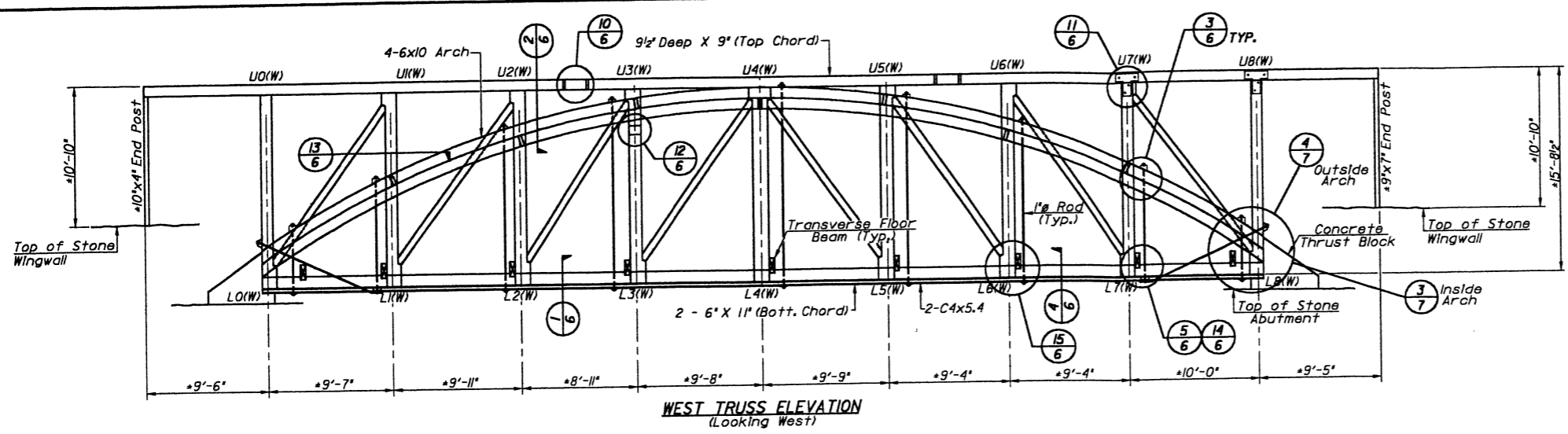


SECTION 1/3  
Scale: 1" = 1'-0"

Top Number Denotes Detail Number  
 Bottom Number Denotes page on which detail may be found

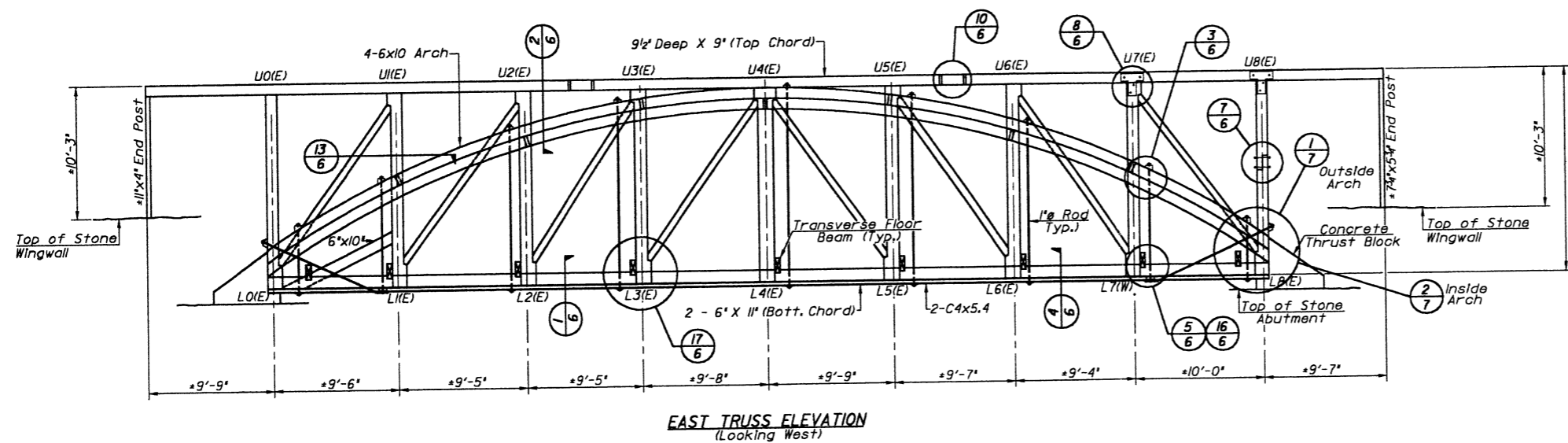
BRIDGE FLOOR PLAN  
 UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 S.N. 079-9000  
 RANDOLPH COUNTY





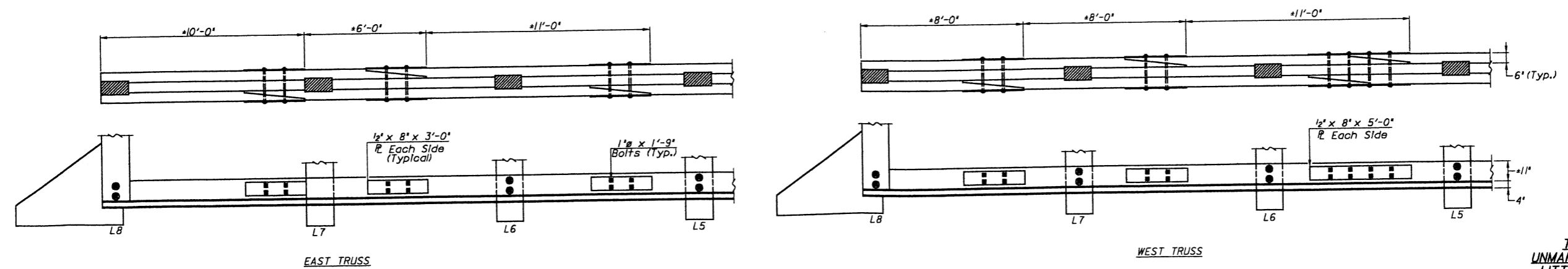
**TRUSS MEMBER SIZES (WEST TRUSS)**

MEMBER	WIDTH x DEPTH
L0(W) - U0(W)	+10' x 11'
L1(W) - U1(W)	+8 1/2' x 10'
L2(W) - U2(W)	+8' x 11'
L3(W) - U3(W)	+8' x 11'
L4(W) - U4(W)	+8 1/2' x 13 3/4'
L5(W) - U5(W)	+8 1/2' x 11 1/2'
L6(W) - U6(W)	+9' x 11 1/2'
L7(W) - U7(W)	+7 1/2' x 10 1/2'
L8(W) - U8(W)	+7' x 10'
L0(W) - U1(W)	+5 1/4' x 8'
L1(W) - U2(W)	+8 3/4' x 6 3/4'
L2(W) - U3(W)	+9' x 6 1/2'
L3(W) - U4(W)	+9 1/4' x 6 1/4'
L4(W) - U5(W)	+8 3/4' x 6 1/2'
L5(W) - U6(W)	+8 3/4' x 6 1/2'
L6(W) - U7(W)	+8 3/4' x 6 1/4'
L7(W) - U8(W)	+7 1/2' x 5 3/4'



**TRUSS MEMBER SIZES (EAST TRUSS)**

MEMBER	WIDTH x DEPTH
L0(E) - U0(E)	+10' x 12'
L1(E) - U1(E)	+8 3/4' x 11'
L2(E) - U2(E)	+8 3/4' x 11'
L3(E) - U3(E)	+8 3/4' x 11'
L4(E) - U4(E)	+8 3/4' x 14'
L5(E) - U5(E)	+9' x 11 1/4'
L6(E) - U6(E)	+8 3/4' x 11'
L7(E) - U7(E)	+9' x 11'
L8(E) - U8(E)	+8' x 10'
L0(E) - U1(E)	+9 1/2' x 8'
L1(E) - U2(E)	+9' x 7'
L2(E) - U3(E)	+9' x 6 1/2'
L3(E) - U4(E)	+8 3/4' x 6 1/2'
L4(E) - U5(E)	+9' x 7'
L5(E) - U6(E)	+9' x 6 1/2'
L6(E) - U7(E)	+9' x 6 1/2'
L7(E) - U8(E)	+8' x 5 1/2'



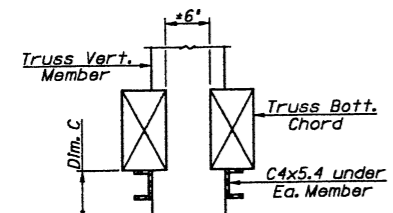
**LOWER CHORD SPLICES**  
(Looking East)  
Scale: 3/8" = 1'-0"

**TRUSS DETAILS**  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
S.N. 079-9000  
RANDOLPH COUNTY

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		RANDOLPH	9	6
PROJECT				

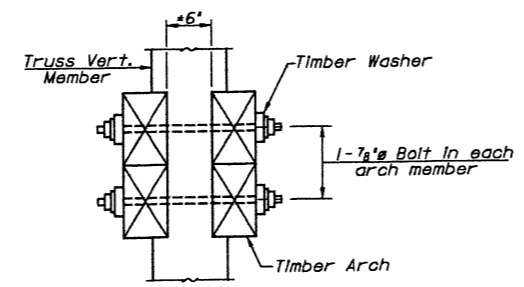
**DIMENSION C**  
(Work this Table with Section 1/6)

MEMBER	WIDTH x DEPTH
L0(W)	—
L1(W)	+12 1/4"
L2(W)	+11 1/4"
L3(W)	+12"
L4(W)	+13 1/2"
L5(W)	+13"
L6(W)	Flush
L7(W)	+12"
L8(W)	—
L0(E)	—
L1(E)	+13 1/4"
L2(E)	Flush
L3(E)	Deteriorated
L4(E)	+11 1/2"
L5(E)	+11 1/2"
L6(E)	Flush
L7(E)	Flush
L8(E)	—

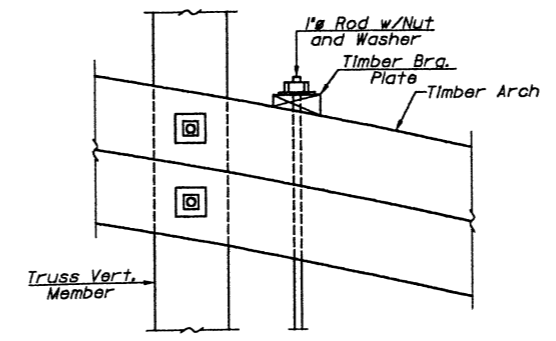


Note: See Table this Sheet for Dimension 'C'

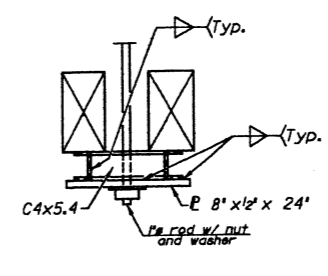
**SECTION 1/6**  
Scale: 1" = 1'-0"



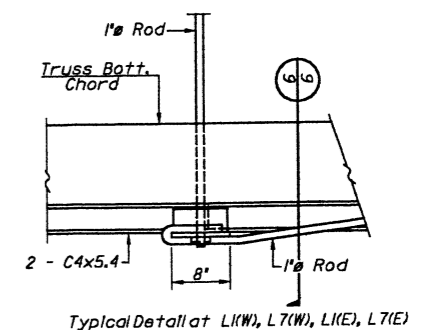
**SECTION 2/6**  
Scale: 1" = 1'-0"



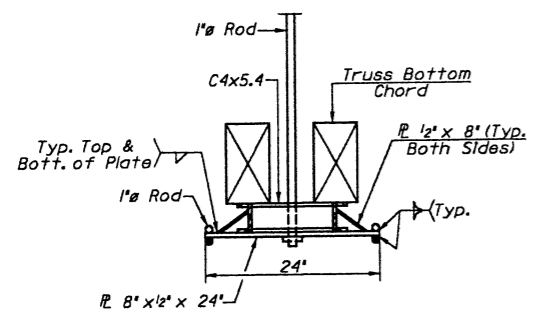
**SECTION 3/6**  
Scale: 1" = 1'-0"



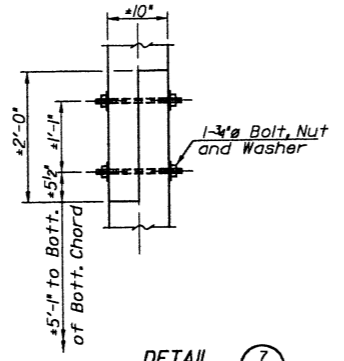
**SECTION 4/6**  
Scale: 1" = 1'-0"



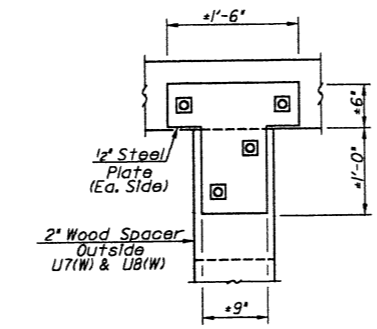
**SECTION 5/6**  
Scale: 1" = 1'-0"



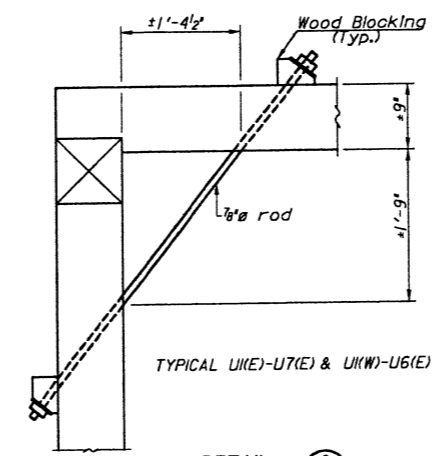
**SECTION 6/6**  
Scale: 1" = 1'-0"



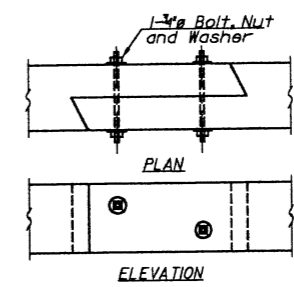
**DETAIL 7/6**  
Scale: 1" = 1'-0"



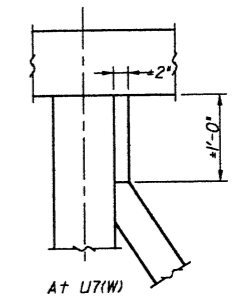
**DETAIL 8/6**  
Scale: 1" = 1'-0"



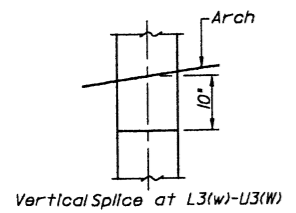
**DETAIL 9/6**  
Scale: 1" = 1'-0"



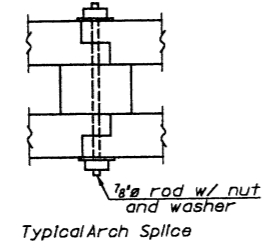
**DETAIL 10/6**  
Scale: 1" = 1'-0"



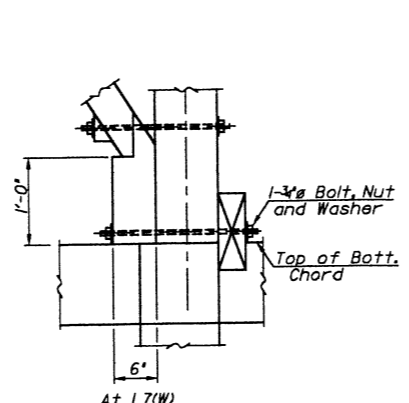
**DETAIL 11/6**  
Scale: 1" = 1'-0"



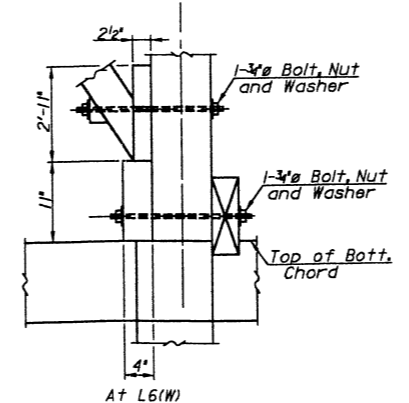
**DETAIL 12/6**  
Scale: 3/4" = 1'-0"



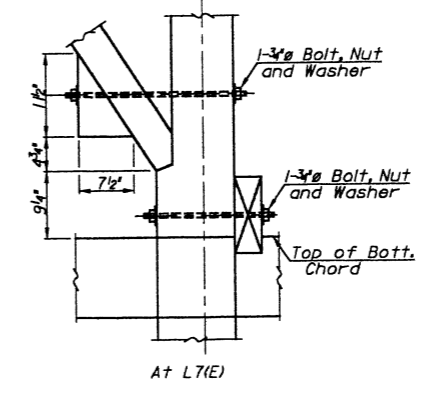
**DETAIL 13/6**  
Scale: 1" = 1'-0"



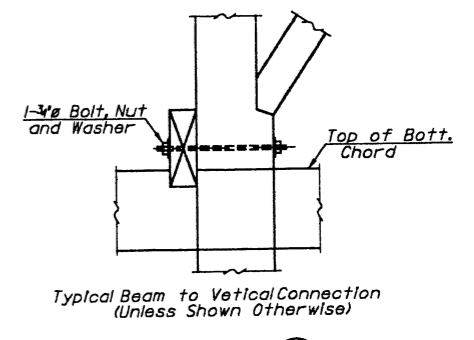
**DETAIL 14/6**  
Scale: 1" = 1'-0"



**DETAIL 15/6**  
Scale: 1" = 1'-0"



**DETAIL 16/6**  
Scale: 1" = 1'-0"

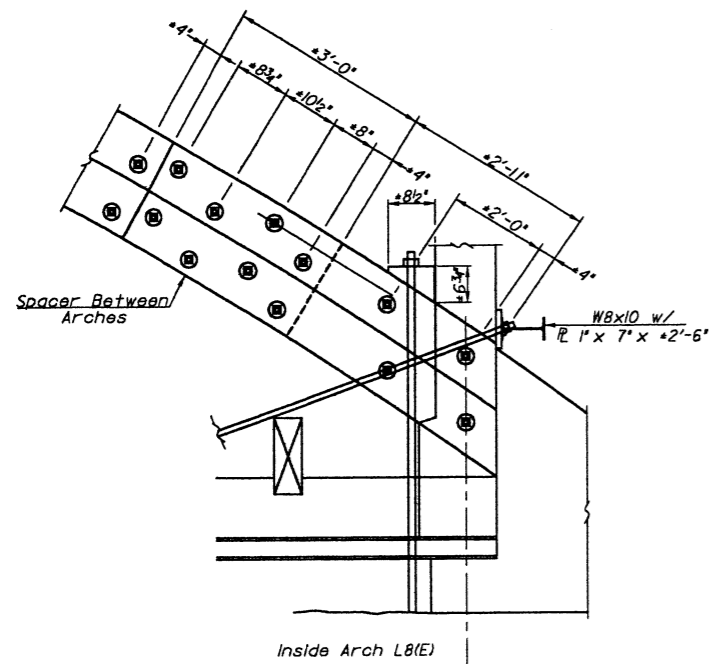


**DETAIL 17/6**  
Scale: 1" = 1'-0"

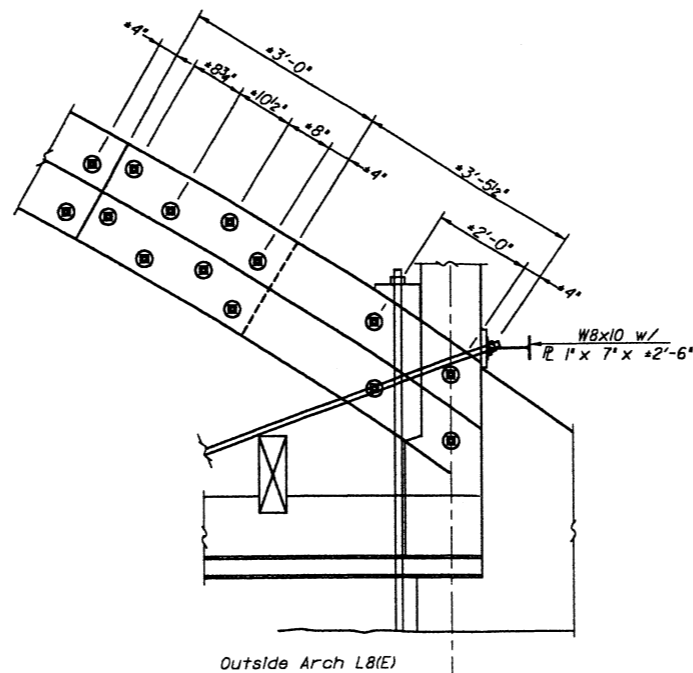
**DETAILS**  
UNMARKED ROUTE OVER  
LITTLE MARY'S RIVER  
S.N. 179-9000  
RANDOLPH COUNTY

FILE NAME: DETAILS\LIBR\T22202

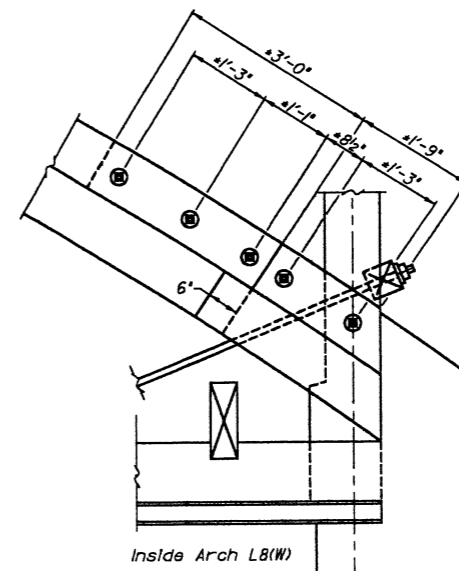
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		RANDOLPH	9	7
PROJECT				



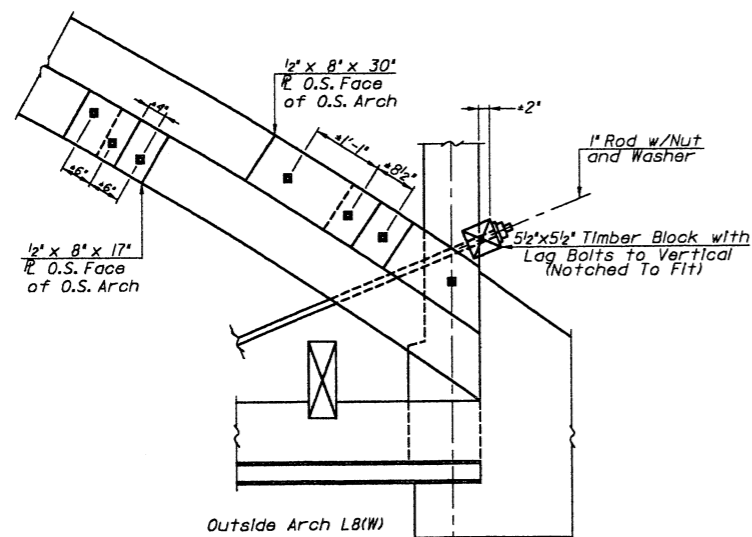
DETAIL 1  
Scale: 3/4" = 1'-0"



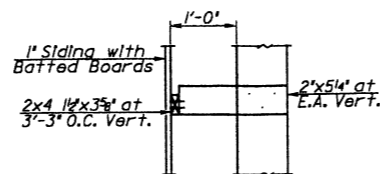
DETAIL 2  
Scale: 3/4" = 1'-0"



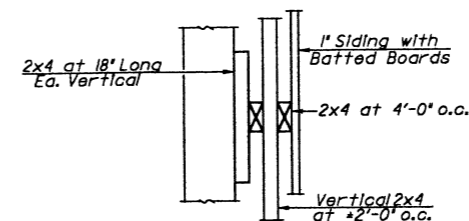
DETAIL 3  
Scale: 3/4" = 1'-0"



DETAIL 4  
Scale: 3/4" = 1'-0"



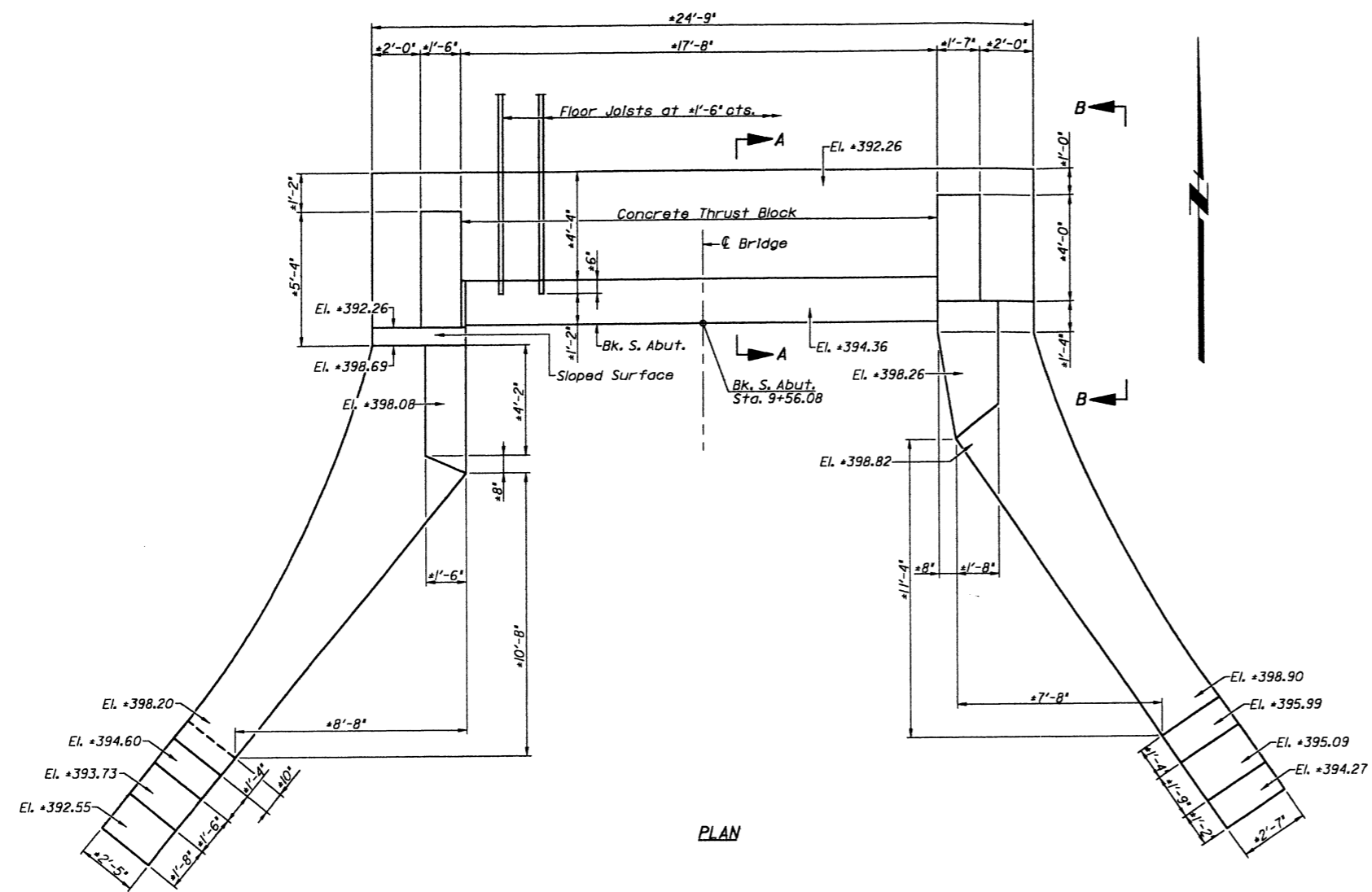
DETAIL 5  
Scale: 1" = 1'-0"



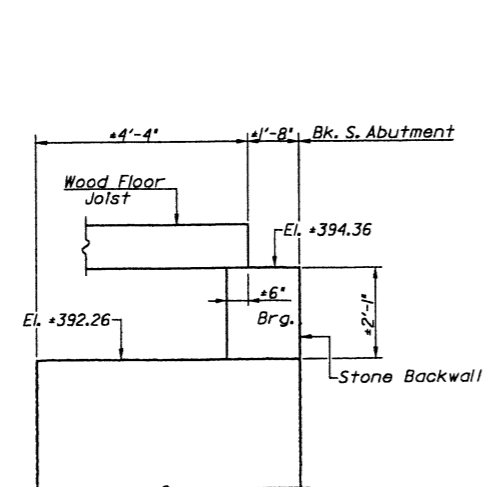
DETAIL 6  
Scale: 1" = 1'-0"

FILE NAME: DETAIL52.DWG, 7/23/02

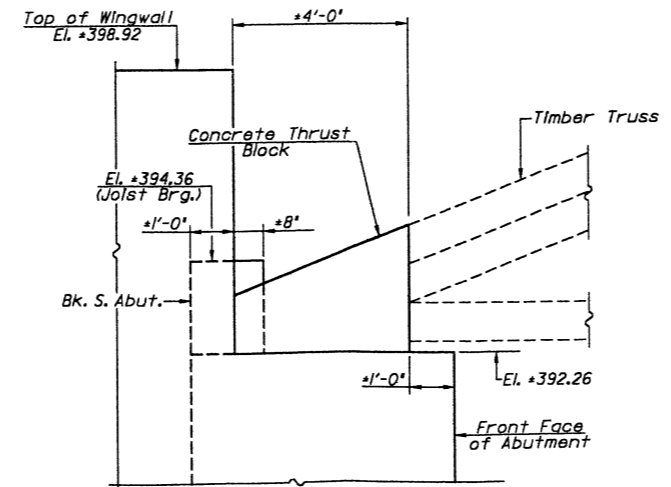
ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		RANDOLPH	9	8
PROJECT				



PLAN



SECTION A-A



SECTION B-B

SOUTH ABUTMENT  
 UNMARKED ROUTE OVER  
 LITTLE MARY'S RIVER  
 S.N. 079-9000  
 RANDOLPH COUNTY

FILE NAME: SOUTH ABUT. 1/23/02

