

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	1
RHA# 1319D15		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHD5-00810581		

04-27-2018 LETTING ITEM 199

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED  
FEDERAL AID PROJECT  
SURFACE TRANSPORTATION  
RURAL - BRIDGE (FY-17)**

CH 1 (W. COUNCIL HILL RD)  
SECTION 15-00151-00-BR  
PROJECT NO. LCCT (292)  
JOB NO. C-92-034-17  
STRUCTURE REPLACEMENT  
JO DAVIESS COUNTY



**INDEX OF SHEETS:**

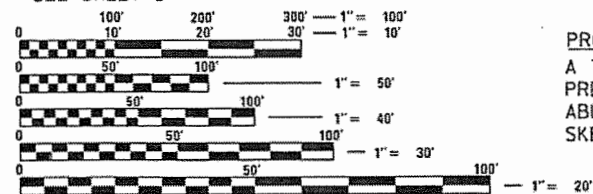
- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES
- 3-4 GENERAL NOTES AND SCHEDULE OF QUANTITIES
- 5-8 TYPICAL SECTIONS AND DETAILS
- 9 PLAN AND PROFILE
- 10 ROAD CLOSURE PLAN
- 11 EROSION CONTROL PLAN
- 12 GENERAL PLAN AND ELEVATION
- 13 RIPRAP LAYOUT
- 14 ABUTMENT REMOVAL DETAILS
- 15 PIER REMOVAL DETAILS
- 16 21" X 48" DECK BEAM
- 17 21" X 48" DECK BEAM DETAILS
- 18 33" X 48" DECK BEAM
- 19 33" X 48" DECK BEAM DETAILS
- 20 WEST ABUTMENT DETAILS
- 21 EAST ABUTMENT DETAILS
- 22 PIER #1 DETAILS
- 23 PIER #2 DETAILS
- 24-25 STEEL RAILING, TYPE SM DETAILS
- 26 BORINGS
- 27-32 EXISTING PLANS
- 33-38 CROSS SECTIONS

**STANDARDS:**

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	725001-01 OBJECT AND TERMINAL MARKERS
001001-02 AREAS OF REINFORCEMENT BARS	728001-01 TELESCOPING STEEL SIGN SUPPORT
280001-07 TEMPORARY EROSION CONTROL SYSTEMS	729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
515001-03 NAME PLATE FOR BRIDGES	782006 GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
630301-08 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS	BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
631032-09 TRAFFIC BARRIER TERMINAL, TYPE 6A	BLR 22-7 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
667101-02 PERMANENT SURVEY MARKERS	
701001-02 OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY	
701006-05 OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE	
701201-04 LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH	
701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	
701901-07 TRAFFIC CONTROL DEVICES	
720001-01 SIGN PANEL MOUNTING DETAILS	
720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS	

**UTILITIES:**

SEE SHEET 3

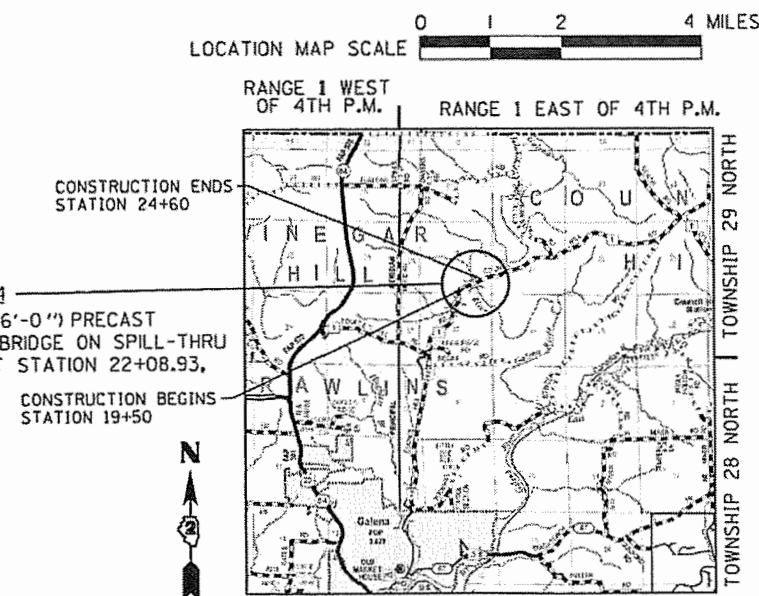


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E. DIG. NO. A1550561  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

PROJECT ENGINEER - EEL  
PROJECT MANAGER - BKC  
CONTRACT NO. 85653

PROPOSED STRUCTURE: S.N. 043-3024  
A THREE SPAN (56'-0" : 83'-0" : 56'-0") PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE ON SPILL-THRU ABUTMENTS AND FIXED R.C. PIERS AT STATION 22+08.93, SKEWED 0°.



FUNCTIONAL CLASSIFICATION  
MINOR COLLECTOR  
DESIGN SPEED 50 MPH  
2017 ADT - 402  
3R

GROSS LENGTH = 510 FT. = 0.097 MILE  
NET LENGTH = 500 FT. = 0.095 MILE

JO DAVIESS COUNTY HIGHWAY DEPARTMENT	
APPROVED	April 7, 2017 [Signature] JO DAVIESS COUNTY ENGINEER
PASSED	November 9, 2017 [Signature] DISTRICT 2 LOCAL ROADS AND STREETS ENGINEER
RELEASING FOR BID BASED ON LIMITED REVIEW	November 9, 2017 [Signature] REGION 2 ENGINEER



DATE: Brian K. Conover  
EXPIRES 11/30/17

**WILLET HOFMANN**  
& ASSOCIATES INC  
ENGINEERING ARCHITECTURE LAND SURVEYING  
809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-264-3381 DESIGN FIRM: #184-000916

FILE # S:\PROJECTS\2015\1319D15\JOY\DESIGN\STRUCT\20-Drawing\1319D15-Cover\_Sheet.dgn

**SUMMARY OF QUANTITIES**  
CONSTRUCTION TYPE CODE: 0013

PAY CODE	ITEM	UNIT	QUANTITY
*20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	10
20300100	CHANNEL EXCAVATION	CU YD	593
20400800	FURNISHED EXCAVATION	CU YD	70
25100630	EROSION CONTROL BLANKET	SQ YD	1,384
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	29
28000305	TEMPORARY DITCH CHECKS	FOOT	20
28000400	PERIMETER EROSION BARRIER	FOOT	669
28100109	STONE RIPRAP, CLASS A5	SQ YD	1,426
28200200	FILTER FABRIC	SQ YD	1,426
*30300011	AGGREGATE SUBGRADE IMPROVEMENT	TON	255
*40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	37
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	841
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	77
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	44
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	101
*48101200	AGGREGATE SHOULDERS, TYPE B	TON	53
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1
*50102400	CONCRETE REMOVAL	CU YD	60.6
50200100	STRUCTURE EXCAVATION	CU YD	72
50300225	CONCRETE STRUCTURES	CU YD	85.9
50300280	CONCRETE ENCASEMENT	CU YD	2.0
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQ FT	2,688
50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1,992
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	7,000
△ *50901050	STEEL RAILING, TYPE SM	FOOT	394
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	526
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	975
△ 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
△ 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	2
66700205	PERMANENT SURVEY MARKERS, TYPE 1	EACH	1
67100100	MOBILIZATION	L SUM	1
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
△ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
*Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	40
*Z0013798	CONSTRUCTION LAYOUT	L SUM	1
*Z0022800	FENCE REMOVAL	FOOT	382
*Z0023201	SEDIMENT CONTROL, SILT CURTAIN	EACH	2
*X2010400	STUMP REMOVAL ONLY	UNIT	182
*X2020410	EARTH EXCAVATION (SPECIAL)	CU YD	159
*X2501020	SEEDING, CLASS 2A (SPECIAL)	ACRE	0.29
*X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	48
*X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1

\*SEE SPECIAL PROVISIONS.

△ SPECIALTY ITEMS

FILE: S:\PROJECTS\2015\1319015\_JCH\DESIGN\STRUCT\20.DWG\1319015-Summary of Quantities.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22+08.93**

**SUMMARY OF QUANTITIES**

SHEET NO. 1 OF 1 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	2
WHA# 1319015		CONTRACT NO. 85653		
[ILLINOIS] FED. AID PROJECT BHOS-00850581				

**GENERAL NOTES:**

EXISTING WELLS SHALL BE SEALED IN ACCORDANCE WITH SECTION 672 OF THE STANDARD SPECIFICATIONS, AND EXISTING STRUCTURES (INCLUDING FOUNDATIONS, WALLS, CISTERNS, OR OTHER UNDERGROUND STRUCTURES) WITHIN THE RIGHT OF WAY SHALL BE REMOVED IN ACCORDANCE WITH ARTICLE 501.04 AND 501.05 OF THE STANDARD SPECIFICATIONS, WITHOUT ADDITIONAL COMPENSATION, UNLESS OTHERWISE NOTED IN THE PLANS OR SPECIAL PROVISIONS.

NO OVERHAUL HAS BEEN COMPUTED AND NONE SHALL BE PAID FOR FROM ANY SOURCE.

THE CONTRACTOR SHALL SEED ALL DISTURBED AREAS WITHIN THE PROJECT LIMITS.

THE FINAL TOP FOUR INCHES OF SOIL IN ANY RIGHT-OF-WAY AREA DISTURBED BY THE CONTRACTOR MUST BE A COHESIVE SOIL CAPABLE OF SUPPORTING VEGETATION AND APPROVED BY THE ENGINEER.

ALL UTILITY POLES, GAS PIPES, ETC. IN THE WAY OF THE IMPROVEMENTS SHALL BE MOVED BY THE UTILITIES PRIOR TO CONSTRUCTION AND SHALL NOT BE INCLUDED IN THE CONTRACT. THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITIES TO MAKE THE NECESSARY ADJUSTMENTS PRIOR TO CONSTRUCTION.

THE LOCATION AND ELEVATION OF THE VARIOUS UNDERGROUND UTILITIES AS SHOWN ON THE PLANS ARE NOT TO BE TAKEN AS EXACT. THE CONTRACTOR SHALL USE SPECIAL CARE WHEN CONDUCTING CONSTRUCTION OPERATIONS NEAR THEM TO PREVENT DAMAGE.

THE LOCATION OF EXISTING FIELD TILES AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN IN THE PLANS ARE NOT TO BE TAKEN AS EXACT. EXACT LOCATION OF ALL FIELD TILES AND UTILITIES IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY DURING CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.39 OF THE STANDARD SPECIFICATIONS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE OWNER AT THE CONTRACTOR'S EXPENSE.

THE UTILITIES LOCATED WITHIN THE PROJECT LIMITS OR IMMEDIATELY ADJACENT TO THE PROJECT CONSTRUCTION LIMITS INCLUDE:

AT&T 255 E. CHICAGO ST. ELGIN, ILLINOIS 60120 PH: (847) 888-6775 ATTN: STEVEN MAHER	WINDSTREAM KDL, INC. 1901 N ROSELLE RD, SUITE 110 SHAUMBURG, IL 60195 PH: (815) 592-3395 ATTN: DEVEN BARNHILL	JO CARROL ENERGY, INC. (NFP) 103 CHICAGO AVENUE SAVANNA, ILLINOIS 61074 PH: 800-858-5522; EXT. 1258 ATTN: MARK WILD
---	---	---

A NATIONWIDE 404 PERMIT HAS BEEN ISSUED FOR THIS PROJECT AND THE CONDITIONS OF THAT PERMIT MUST BE ADHERED TO.

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

EXISTING MAILBOXES, STREET SIGNS, AND TRAFFIC SIGNS THAT ARE WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED BY THE CONTRACTOR. COST OF REMOVAL TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

WHERE THE PROPOSED CONSTRUCTION MEETS AN EXISTING BITUMINOUS SURFACE, OR WHERE SAWING IS STATED ON THE PLANS, THE EXISTING SHALL BE SAWED IN A NEAT, STRAIGHT LINE. COST OF SAWING TO BE INCLUDED IN THE CONTRACT UNIT PRICE BID PER CUBIC YARD FOR EARTH EXCAVATION (SPECIAL).

ALL BORROW/WASTE/USE SITES MUST BE APPROVED BY THE DEPARTMENT PRIOR TO REMOVING ANY MATERIAL FROM THE PROJECT OR INITIATING ANY EARTHMOVING ACTIVITIES, INCLUDING TEMPORARY STOCKPILING OUTSIDE THE LIMITS OF CONSTRUCTION.

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL SHALL BE USED FOR REMOVAL OF SOFT SPOTS AS DETERMINED BY THE ENGINEER. SEE SPECIAL PROVISIONS.

**SCHEDULE OF QUANTITIES**

REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL		
STATION	CU YD	REMARKS
CH 1 (W COUNCIL HILL RD)		
CONTINGENCY ITEM	10	AS DIRECTED BY THE ENGINEER
PROJECT TOTAL	10	

EROSION CONTROL BLANKET		
STATION	SQ YD	REMARKS
CH 1 (W COUNCIL HILL RD)		
RT STA 19+50 - 23+97	775	
LT STA 20+50 - 24+50	609	
PROJECT TOTAL	1,384	

TEMPORARY EROSION CONTROL SEEDING		
STATION	POUND	REMARKS
CH 1 (W COUNCIL HILL RD)		
RT STA 19+50 - 23+97	13	100 LBS./ACRE
LT STA 20+50 - 24+50	16	100 LBS./ACRE
PROJECT TOTAL	29	

TEMPORARY DITCH CHECKS		
STATION	FOOT	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 21+75	10	
LT STA 21+89	10	
PROJECT TOTAL	20	

PERIMETER EROSION BARRIER		
STATION	FOOT	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 20+50 - 21+45	95	
LT STA 22+38 - 24+50	212	
RT STA 19+50 - 19+91	41	
RT STA 19+91 - 20+02	19	
RT STA 20+20 - 20+31	11	
RT STA 20+31 - 21+45	122	
RT STA 22+40 - 23+50	110	
RT STA 23+50 - 23+97	59	
PROJECT TOTAL	669	

**SCHEDULE OF QUANTITIES – CONT.**

AGGREGATE SUBGRADE IMPROVEMENT		
STATION	TON	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 20+60 - 21+10.34	92	12"
STA 23+07.54 - 23+97	163	12"
PROJECT TOTAL	255	

AGGREGATE SURFACE COURSE, TYPE B		
STATION	TON	REMARKS
CH 1 (W COUNCIL HILL RD)		
FER STA 20+06	37	8"
PROJECT TOTAL	37	

BITUMINOUS MATERIALS (PRIME COAT)		
STATION	POUND	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 20+60 - 21+10.34	303	0.25 LB./SQ. FT. OVER AGG.
STA 23+07.54 - 23+97	538	0.25 LB./SQ. FT. OVER AGG.
PROJECT TOTAL	841	

BITUMINOUS MATERIALS (TACK COAT)		
STATION	POUND	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 20+60 - 21+10.34	28	0.025 LB./SQ. FT. OVER BINDER
STA 23+07.54 - 23+97	49	0.025 LB./SQ. FT. OVER BINDER
PROJECT TOTAL	77	

HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50		
STATION	TON	REMARKS
CH 1 W COUNCIL HILL RD)		
STA 20+60 - 21+10.34	16	2 1/4" - 112 LBS/SQ.YD./IN.
STA 23+07.54 - 23+97	28	2 1/4" - 112 LBS/SQ.YD./IN.
PROJECT TOTAL	44	

FILE : S:\PROJECTS\2015\1319015\JCH\DESIGN\STRUCT\2D\_Drawings\1319015\_General\_Notes\_and\_Schedule\_of\_Quantities.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**GENERAL NOTES AND SCHEDULE OF QUANTITIES**

SHEET NO. 1 OF 2 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	3
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHOS-0085(058)		

**SCHEDULE OF QUANTITIES – CONT.**

<b>HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50</b>		
STATION	TON	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 20+60 - 21+10.34	10	1 1/2" - 112 LBS/SQ.YD./IN.
STA 23+07.54 - 23+97	18	1 1/2" - 112 LBS/SQ.YD./IN.
PROJECT TOTAL	28	SEE BRIDGE SHEETS FOR ADDITIONAL HMA SURFACE

<b>AGGREGATE SHOULDERS, TYPE B</b>		
STATION	TON	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 20+60 - 21+10.34	2	4"
LT STA 23+07.54 - 24+50	26	4"
RT STA 19+50 - 21+10.34	21	4"
RT STA 23+07.54 - 23+97	4	4"
PROJECT TOTAL	53	

<b>TRAFFIC BARRIER TERMINAL, TYPE 6A</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
RT STA 20+17	1	
LT STA 23+50	1	
PROJECT TOTAL	2	

<b>TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
RT STA 20+69	1	
LT STA 23+07.54	1	
PROJECT TOTAL	2	

<b>PERMANENT SURVEY MARKERS, TYPE 1</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 21+10.84, RT 13.5'	1	SOUTHWEST WINGWALL
PROJECT TOTAL	1	

**SCHEDULE OF QUANTITIES – CONT.**

<b>TERMINAL MARKER – DIRECT APPLIED</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
RT STA 20+17	1	END OF TRAFFIC BARRIER TERMINAL
LT STA 21+10.34	1	END OF SM RAIL
RT STA 23+07.54	1	END OF SM RAIL
LT STA 24+01	1	END OF TRAFFIC BARRIER TERMINAL
PROJECT TOTAL	4	

<b>GUARDRAIL REFLECTORS, TYPE A</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 20+17 - 23+08	4	
RT STA 21+10 - 24+01	4	
PROJECT TOTAL	8	

<b>FENCE REMOVAL</b>		
STATION	FOOT	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 20+50 - 21+16	66	
LT STA 21+16	20	
LT STA 23+18 - 24+50	131	
RT STA 19+50 - 20+03	52	
RT STA 20+20 - 21+12	93	
RT STA 21+12 - 21+16	20	
PROJECT TOTAL	382	

<b>SEDIMENT CONTROL, SILT CURTAIN</b>		
STATION	EACH	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 21+40 (WEST BANK)	1	
STA 22+79 (EAST BANK)	1	
PROJECT TOTAL	2	

**SCHEDULE OF QUANTITIES – CONT.**

<b>STUMP REMOVAL ONLY</b>		
STATION	UNIT	REMARKS
CH 1 (W COUNCIL HILL RD)		
STA 19+98, RT 31'	18	
STA 19+99, RT 35'	12	
STA 20+23, RT 37'	16	
STA 20+48, RT 37'	10	
STA 20+77, RT 37'	7	
STA 20+89, LT 45'	6	
STA 20+97, LT 38'	7	
STA 20+98, RT 30'	14	
STA 21+03, RT 28'	10	
STA 21+09, RT 31'	8	
STA 21+13, RT 39'	8	
STA 23+00, RT 19'	8	
STA 23+36, RT 24'	8	CLUSTER OF STUMPS
STA 23+48, RT 30'	10	CLUSTER OF STUMPS
STA 23+58, RT 25'	10	CLUSTER OF STUMPS
STA 23+74, RT 29'	12	
STA 23+79, RT 27'	6	
STA 23+82, RT 31'	12	CLUSTER OF STUMPS
PROJECT TOTAL	182	

<b>SEEDING, CLASS 2A (SPECIAL)</b>		
STATION	ACRE	REMARKS
CH 1 (W COUNCIL HILL RD)		
LT STA 19+50 - 24+50	0.13	
RT STA 19+50 - 24-50	0.16	
PROJECT TOTAL	0.29	

<b>CH 1 (W COUNCIL HILL RD) EARTHWORK TOTALS</b>						
LOCATION	EARTH EXCAVATION (SPECIAL)	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE 25%	EMBANKMENT	CHANNEL EXCAVATION	CHANNEL EXCAVATION ADJUSTED FOR SHRINKAGE 62.5%	FURNISHED EXCAVATION
	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
CH 1 (W COUNCIL HILL RD)						
STA 19+50 - 24+50	159	119	272	593	222	70

FILE : S:\PROJECTS\2015\1319D15\CH1\DESIGN\STRUCT\2D\Drawings\1319D15.General\_Notes\_and\_Schedule\_of\_Quantities.dgn



DESIGNED - IPN  
 CHECKED - MAC  
 DRAWN - FDL  
 CHECKED - EEL

REVISED - -  
 REVISED - -  
 REVISED - -  
 REVISED - -

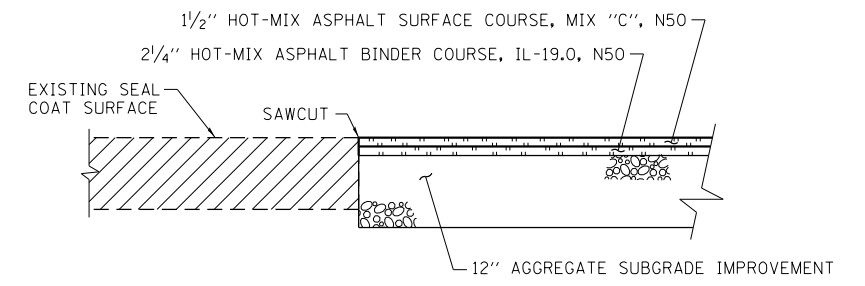
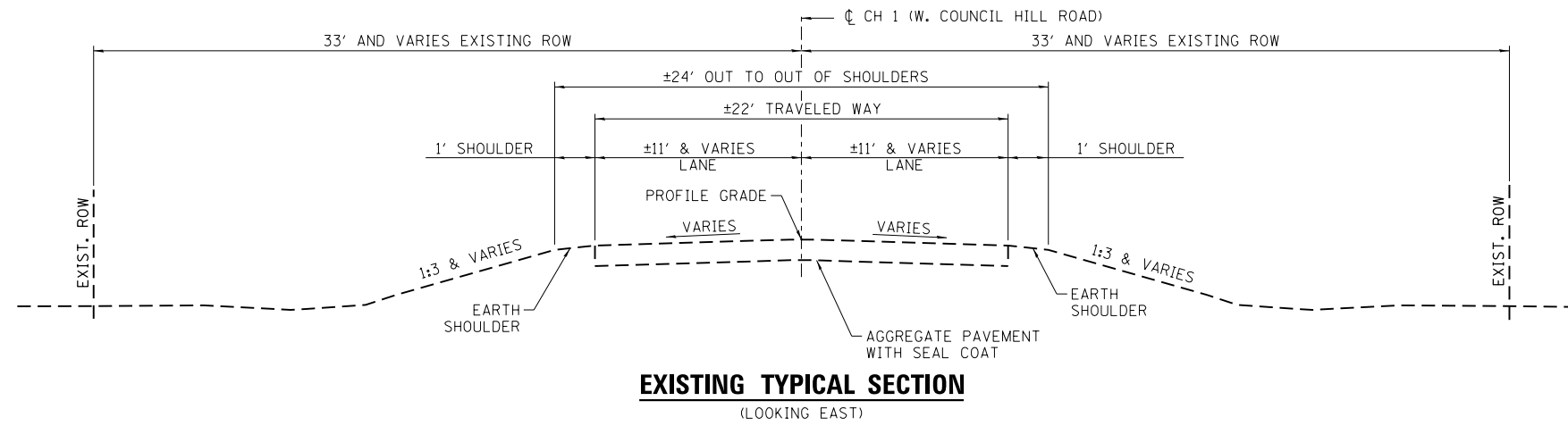
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**GENERAL NOTES AND SCHEDULE OF QUANTITIES**

SHEET NO. 2 OF 2 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	4
WHA# 1319D15		CONTRACT NO. 85653		
ILLINOIS		FED. AID PROJECT BHOS-0085(058)		





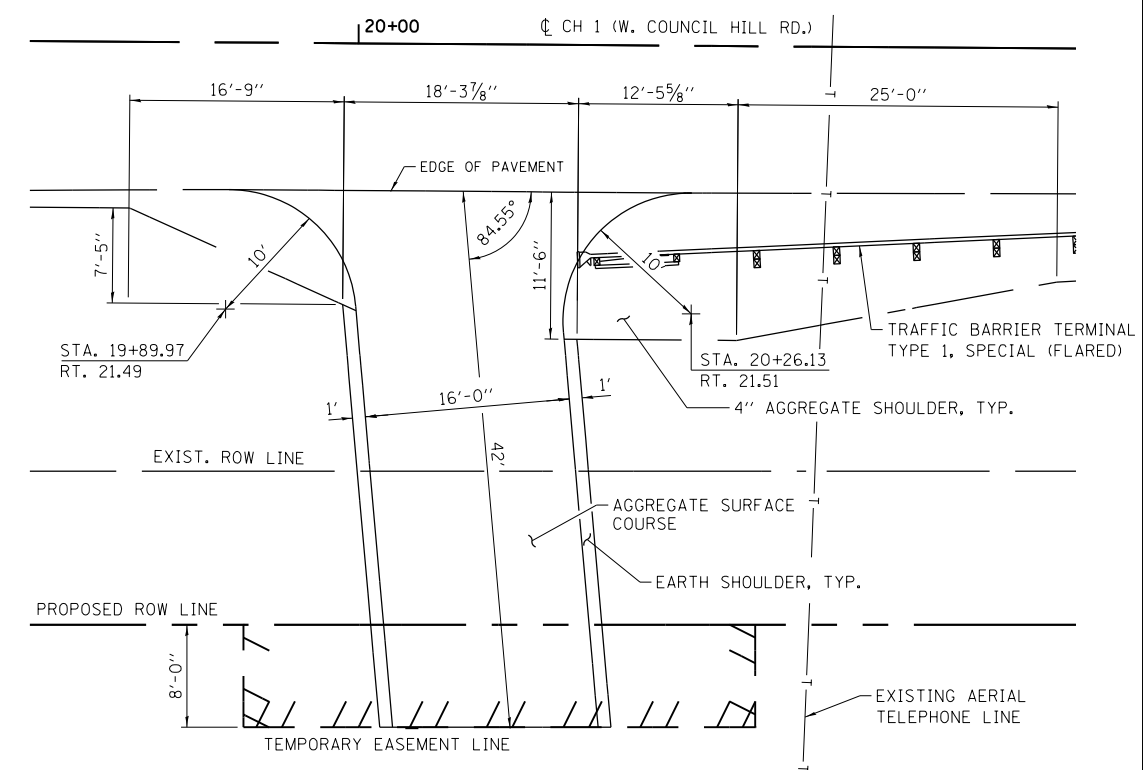
**TYPICAL CORE JOINT DETAIL**

**PAVEMENT STRUCTURAL DESIGN  
CH 1 (W. COUNCIL HILL ROAD)**

STRUCTURAL DESIGN TRAFFIC (SDT) = YEAR 2027  
 CLASS III STREET  
 80,000# TRUCK DESIGN  
 E<sub>Rt</sub> = 2 KSI (POOR SUBGRADE)  
 TF = 0.108  
 HMA MIX TEMP. = 72  
 HMA E<sub>AC</sub> = 655  
 HMA DESIGN STRAIN = 284  
**USE:**  
 1 1/2" HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50  
 2 1/4" HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50  
 12" AGGREGATE SUBGRADE IMPROVEMENT  
 SEE SECTION 44-3.03(a) OF THE LOCAL ROADS AND STREETS MANUAL.

PV 357  
 SU 28  
 MU 20 } 405 ADT

PAVEMENT MIXTURE REQUIREMENTS		
MIXTURE USE:	BINDER	SURFACE
PG:	PG 58-22	PG 58-22
DESIGN AIR VOIDS	4.0 @ N50	4.0 @ N50
MIXTURE COMPOSITION (GRADATION MIXTURE)	IL-19.0	IL-9.5
FRICTION AGGREGATE	N/A	MIX "C"
MIXTURE WEIGHT:	112 LBS/SY/IN	112 LBS/SY/IN



**F.E.R. 20+06**

FILE = S:\PROJECTS\2015\1319015\CH1\DESIGN\STRUCT\2D\Drawings\1319015\_Typical Sections and Details.dwg

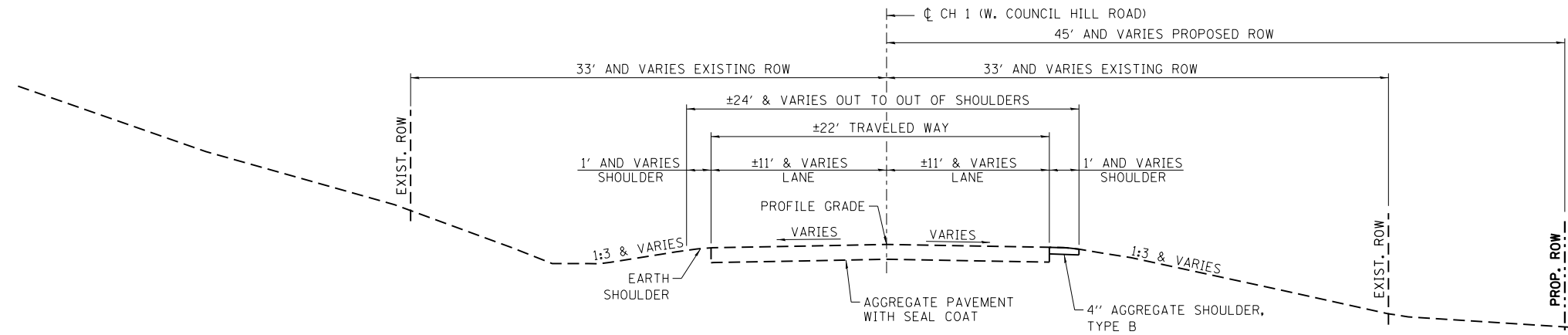


DESIGNED - MAH	REVISED -
CHECKED - PLP	REVISED -
DRAWN - EEL	REVISED -
CHECKED - PLP	REVISED -

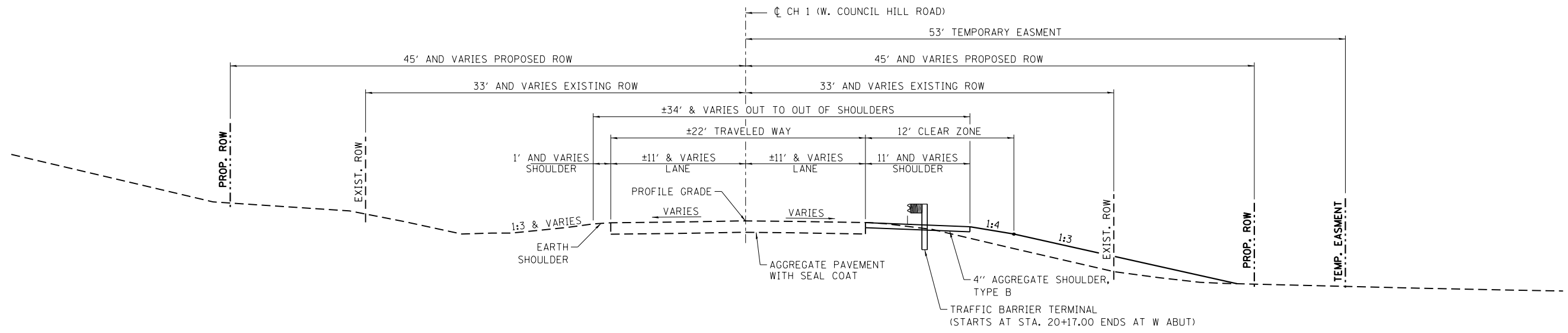
**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22 + 08.93**

**TYPICAL SECTIONS AND DETAILS**  
SHEET NO. 1 OF 4 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	5
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BH05-0085(058)		



**PROPOSED TYPICAL SECTION AT  
STATION 19+50 TO 20+17**  
(LOOKING EAST)



**PROPOSED TYPICAL SECTION AT  
STATION 20+17 TO 20+60**  
(LOOKING EAST)

FILE : S:\PROJECTS\2015\1319015\CHA\DESIGN\STRUCT\2D\Drawings\1319015\_Typical Sections and Details.dgn

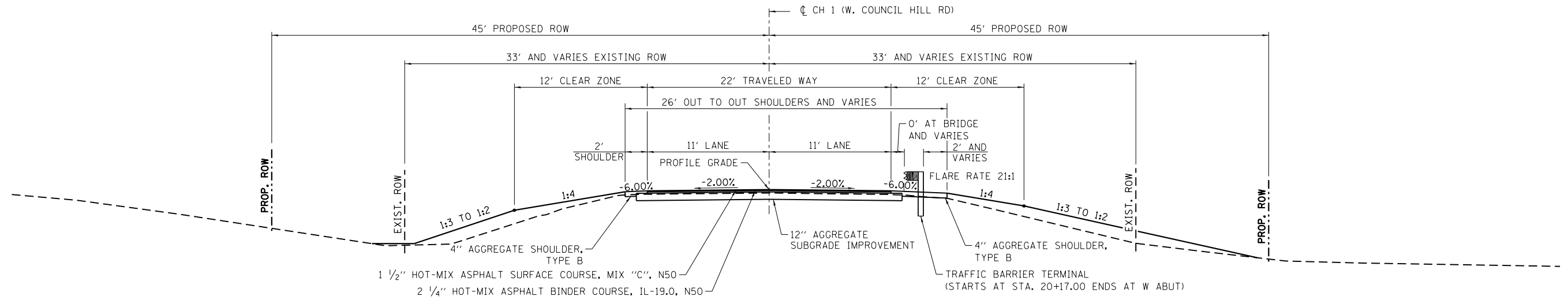


DESIGNED - MAH	REVISED -
CHECKED - PLP	REVISED -
DRAWN - EEL	REVISED -
CHECKED - PLP	REVISED -

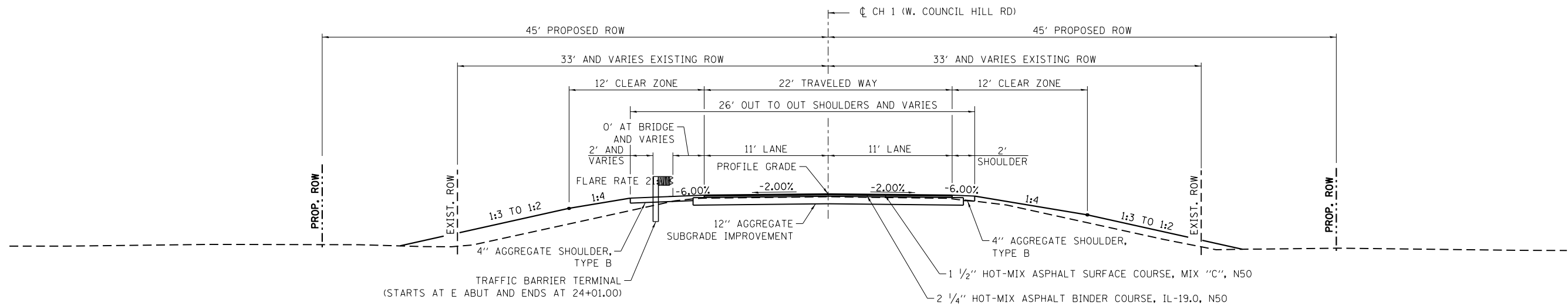
**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22 + 08.93**

**TYPICAL SECTIONS AND DETAILS**  
SHEET NO. 2 OF 4 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	6
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BH05-0085(058)	



**PROPOSED TYPICAL SECTION AT  
STATION 20+60 TO 21+10.34**  
(LOOKING EAST)



**PROPOSED TYPICAL SECTION AT  
STATION 23+07.54 TO 23+97**  
(LOOKING EAST)

FILE : S:\PROJECTS\2015\1319015\CHA\DESIGN\STRUCT\2D\Drawings\1319015\_Typical Sections and Details.dgn



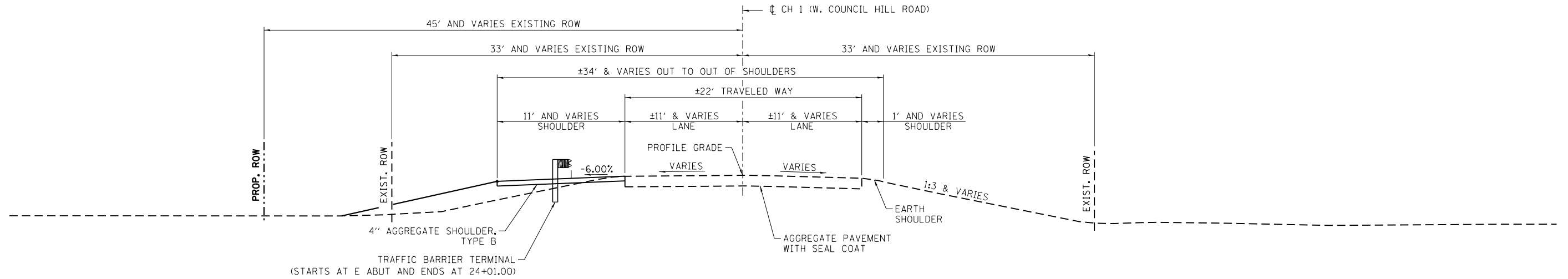
DESIGNED - MAH	REVISED -
CHECKED - PLP	REVISED -
DRAWN - EEL	REVISED -
CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22+08.93**

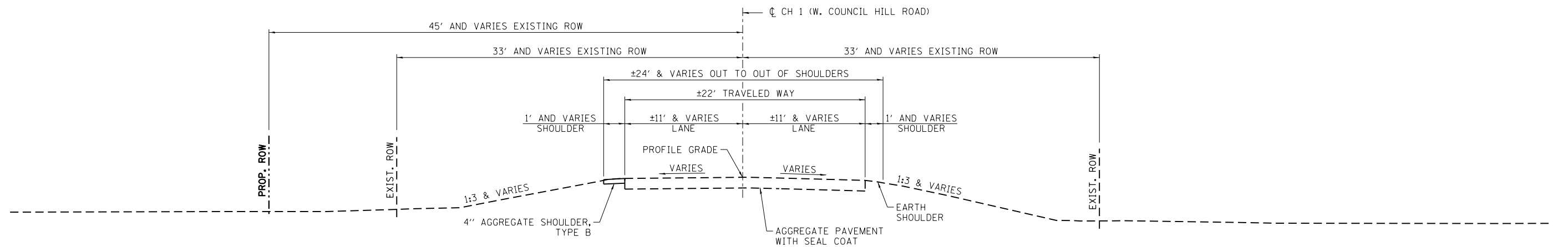
**TYPICAL SECTIONS AND DETAILS**

SHEET NO. 3 OF 4 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	7
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BH05-0085(058)	



**PROPOSED TYPICAL SECTION AT  
STATION 23+97 TO 24+01**  
(LOOKING EAST)



**PROPOSED TYPICAL SECTION AT  
STATION 24+01 TO 24+50**  
(LOOKING EAST)

FILE : S:\PROJECTS\2015\1319015\CH1\DESIGN\STRUCT\2D\Drawings\1319015\_Typical Sections and Details.dwg



DESIGNED - MAH	REVISED -
CHECKED - PLP	REVISED -
DRAWN - EEL	REVISED -
CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22+08.93**

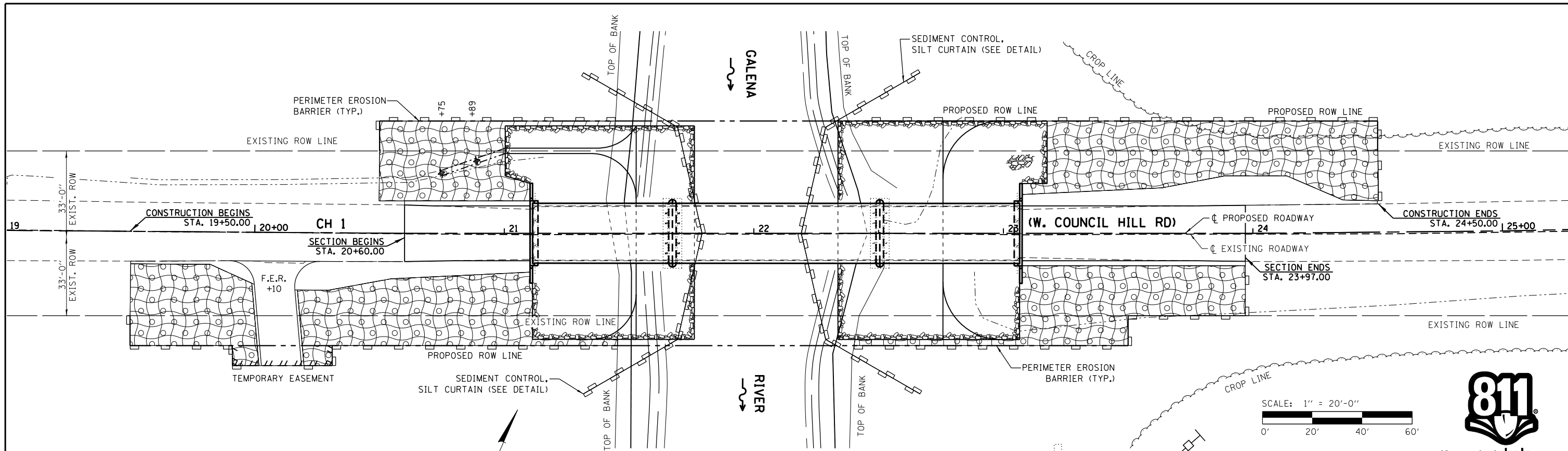
**TYPICAL SECTIONS AND DETAILS**

SHEET NO. 4 OF 4 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	8
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BH05-0085(058)	

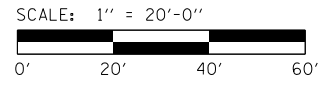




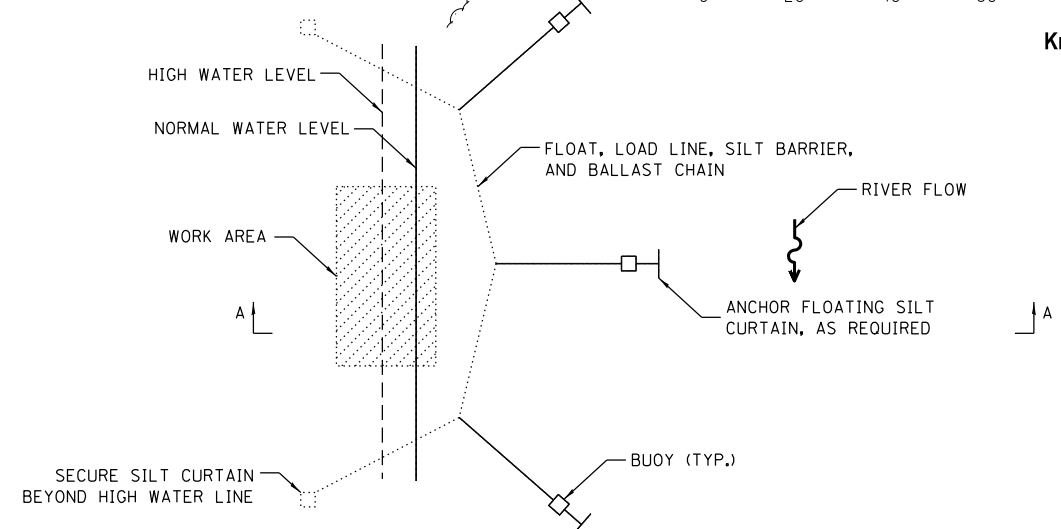


**PLAN VIEW - EROSION CONTROL**

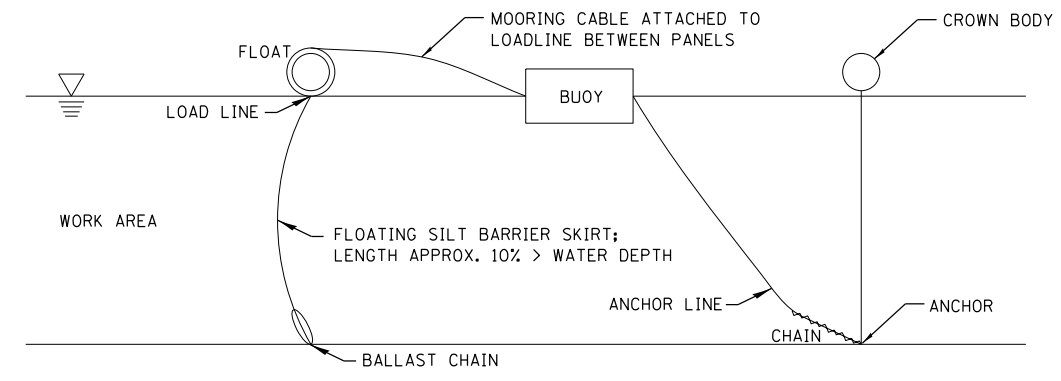
- LEGEND**
- PERIMETER EROSION BARRIER
  - SEDIMENT CONTROL, SILT CURTAIN
  - SEEDING, CLASS 2A (SPECIAL)
  - TEMPORARY DITCH CHECKS
  - EROSION CONTROL BLANKET



Know what's below.  
Call before you dig.



**DETAIL - TYPICAL PLAN VIEW OF SEDIMENT CONTROL, SILT CURTAIN**



**SECTION A-A: TYPICAL COMPONENTS**

**EROSION CONTROL NOTES**

THE SOIL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER 1/2" OF RAIN OR MORE BY THE INDIVIDUAL ON SITE IN CHARGE OF SOIL EROSION AND SEDIMENT CONTROL DURING THE CONSTRUCTION OF THE PROJECT.

PERIMETER EROSION BARRIER SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS AND SHALL BE PLACED AS SHOWN ON THE EROSION CONTROL PLAN AND IN ACCORDANCE WITH STATIONS SHOWN ON THE SCHEDULE OF QUANTITIES SHEET OR AS DIRECTED BY THE ENGINEER.

SILT FENCE SHALL BE INSTALLED FOLLOWING THE COMPLETION AND STABILIZATION OF ALL AREAS ADJACENT TO THE ON-SITE DRAINAGES. THE SILT FENCE WILL REMAIN IN PLACE UNTIL THE CONTRIBUTING AREA IS STABILIZED.

FOR SEEDING, CLASS 2A (SPECIAL) SEE SPECIAL PROVISIONS.

EROSION CONTROL BLANKET SHALL BE PLACED IN DITCHES AND ON ALL DISTURBED AREAS AS SHOWN ON THIS EROSION CONTROL PLAN SHEET AND IN ACCORDANCE WITH SECTION 251 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

THE USE OF GREEN DYE IN THE EROSION CONTROL BLANKET IS NOT ACCEPTABLE.

TEMPORARY DITCH CHECKS SHALL COMPLY WITH SECTION 280 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STANDARD 280001.

TEMPORARY DITCH CHECKS SHALL BE PLACED AT STATIONS CALLED OUT IN THE SCHEDULE OF QUANTITIES OR AS DIRECTED BY THE ENGINEER.

STOCKPILES OF SOIL AND OTHER BUILDING MATERIALS TO REMAIN IN PLACE MORE THAN THREE (3) DAYS SHALL BE FURNISHED WITH EROSION AND SEDIMENT CONTROL MEASURES (I.E. PERIMETER SILT FENCE). STOCKPILES TO REMAIN IN PLACE FOR 14 DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING.

ALL ADJACENT ENTRANCES MUST BE KEPT CLEAR OF DEBRIS. INSPECTED DAILY AND CLEANED WHEN NECESSARY.

SEDIMENT CONTROL, SILT CURTAIN SHALL BE PLACED PARALLEL TO STREAM FLOW.

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_Erosion\_Control.dwg



DESIGNED - IPN	REVISED - -
CHECKED - MAC	REVISED - -
DRAWN - FDL	REVISED - -
CHECKED - EEL	REVISED - -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**EROSION CONTROL PLAN**

SHEET NO. 1 OF 1 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	11
WHA# 1319015		CONTRACT NO. 85653		

ILLINOIS FED. AID PROJECT BH05-0085(058)



**EXISTING STRUCTURE:** S.N. 043-3024

Constructed in 1970 under Sec. 79-13-MFT at Sta. 22+08.93 as a three span (56'-0"; 83'-0"; 56'-0") precast, prestressed concrete deck beam bridge on stub pile spill-thru abutments with solid battered stem piers. 196'-10 1/2" back to back of abutments and 24'-0" out to out of deck, no skew. Structure to be rehabilitated.

Road to be closed during construction.

**BENCH MARK #401:** Chis "□" on Southwest Corner of Hub Guard at Sta ±21+12  
12' Rt El 658.33

**BENCH MARK #402:** Chis "□" on Northeast Corner of Hub Guard at Sta ±23+06  
12' Lt El 655.18

**BILL OF MATERIAL - BRIDGE**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		593	593
Stone Riprap, Class A5	Sq. Yd.		1,426	1,426
Filter Fabric	Sq. Yd.		1,426	1,426
Hot-Mix Asphalt Surface Course, Mix "C", N50	Ton	73		73
Removal of Existing Superstructures	Each	1		1
Concrete Removal	Cu. Yd.		60.6	60.6
Structure Excavation	Cu. Yd.		72	72
Concrete Structures	Cu. Yd.		85.9	85.9
Concrete Encasement	Cu. Yd.		2.0	2.0
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2,688		2,688
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1,992		1,992
Reinforcement Bars, Epoxy Coated	Pound		7,000	7,000
Steel Railing, Type SM	Foot	394		394
Name Plates	Each		1	1
Waterproofing Membrane System	Sq. Yd.	526		526
Portland Cement Mortar Fairing Course	Foot	975		975
Asbestos Bearing Pad Removal	Each		40	40
Granular Backfill For Structures	Cu. Yd.		48	48

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 Riprap Layout
- 3 West and East Abutment Removal Detail
- 4 Pier #1 and Pier #2 Removal Detail
- 5 21"x48" PPC Deck Beam
- 6 21"x48" PPC Deck Beam Details
- 7 33"x48" PPC Deck Beam
- 8 33"x48" PPC Deck Beam Details
- 9 West Abutment Details
- 10 East Abutment Details
- 11 Pier #1 Details
- 12 Pier #2 Details
- 13-14 Steel Railing, Type SM Details
- 15 Boring Logs
- 16-21 Existing Plans

**GENERAL NOTES:**

- Reinforcement bars designated (E) shall be epoxy coated.
- Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the shafts and webwalls.
- Concrete Removal of the existing piers shall be executed with the use of defined saw cuts. The use of drilling or other means of pier splitting shall not be allowed. The Contractor's Structural Assessment Report for Means and Methods shall define the removal line appropriately and provide a method that employs the use of saw cutting.
- The existing piers below the proposed removal lines shall remain in place during construction. The Contractor may substitute a temporary support system to facilitate construction. The use of a temporary system shall be executed according to the General Bridge Specifications Standard Assessment Report for Contractors means and methods.
- Existing vertical reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal. See Special Provisions.
- Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation for a change in scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for work.
- The channel shall be transitioned to fit the proposed structure inside the Right of Way. Cost shall be included in price per Cubic Yard for Channel Excavation.
- The Contractor is advised that the existing structure contains prestressed precast deck beams that are in a deteriorated condition with reduced load carrying capacity. It is the Contractor's responsibility to account for the condition of the existing structure when developing construction procedures for the complete or partial removal, or replacement of the structure. An Existing Structure Information Package is available upon request as noted in the Special Provisions.
- The Contractor shall retain the services of an Engineering Firm, pre-qualified in the IDOT consultant selection category of Highway Bridges (Typical), for preparation of the Structural Assessment Report. Contractor's pre-approval shall not be applicable for the project. See Special Provisions.
- \*See special provisions.

**WATERWAY INFORMATION**

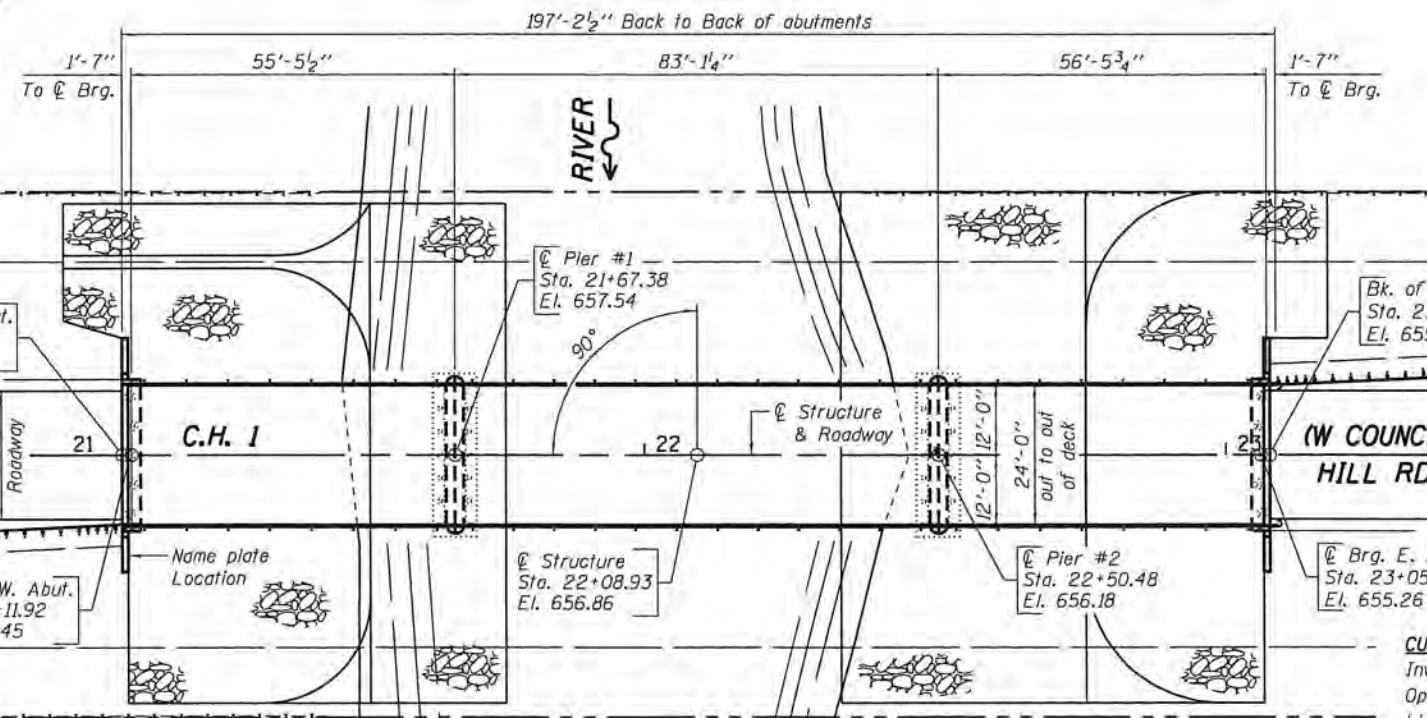
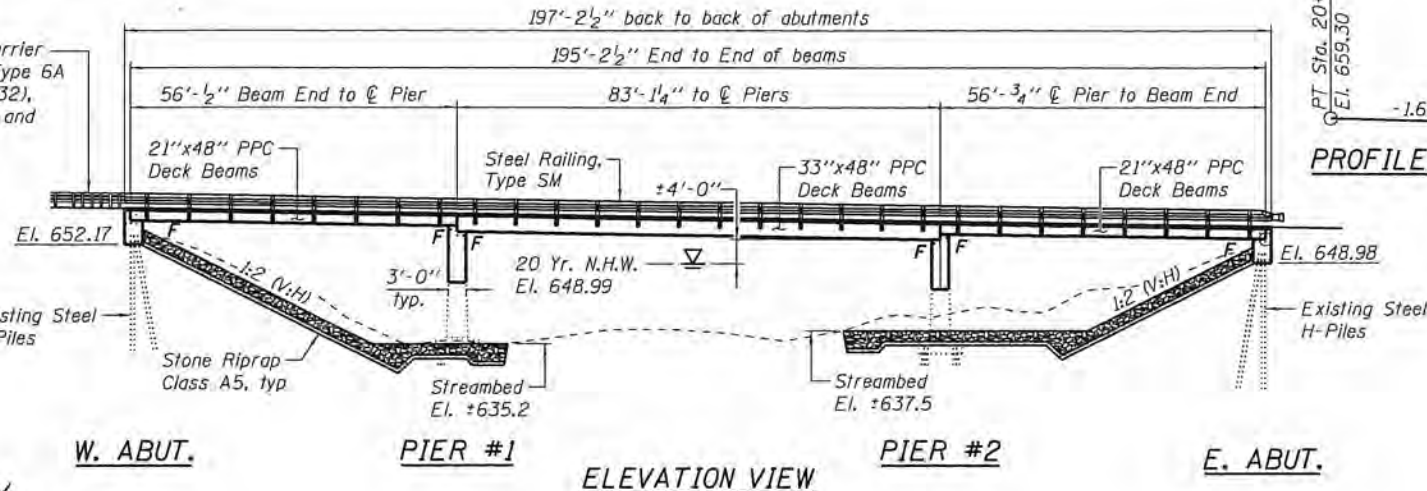
Drain. Area = 151 sq. mi. Low Grade El. 653.17 @ Sta. 25+06.63

Flood	Freq. Yr.	0	Opening	Sq. Ft.	Nat. H.W.E.	Head - Ft.	Headwater El.
		Exist.	Prop.		Exist.	Prop.	Exist.
Design	20	9,000	1,396		648.99	0	648.47
Base	100	13,200	1,691		650.23	0.04	650.27
Max. Calc.	500	17,700	1,974		651.23	0.67	651.90

**BRIDGE DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)			
	W. Abut.	Pier #1	Pier #2	E. Abut. Item 113
Q100 (Design)		627.8	632.6	
Q200 (Check)		627.4	632.3	5

**GENERAL PLAN AND ELEVATION**  
**CH 1 (W COUNCIL HILL ROAD) OVER GALENA RIVER**  
**SECTION 15-00151-00-BR**  
**JO DAVIESS COUNTY**  
**STATION 22+08.93**  
**STRUCTURE NO. 043-3024**



**PROFILE GRADE**



**DESIGN SPECIFICATIONS**  
 2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2016 Interims

**DESIGN STRESSES**

**FIELD UNITS (NEW CONSTRUCTION)**  
 f'c = 3,500 psi (Substructure)  
 fy = 60,000 psi (Reinforcement)

**FIELD UNITS (EXISTING CONSTRUCTION)**  
 f'c = 3,500 psi (Substructure)  
 fy = 40,000 psi (Reinforcement)

**PRECAST PRESTRESSED UNITS**  
 f'c = 6,000 psi  
 f'ci = 5,000 psi  
 fpu = 270,000 psi (1/2" φ Low Lax Strands)  
 fpbt = 201,960 psi (1/2" φ Low Lax Strands)

**LOADING HL-93**  
 Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**  
 Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.069  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.096  
 Soil Site Class = D

GALENA RIVER  
 RE-BUILT 2017 BY  
 JO DAVIESS COUNTY  
 SECTION 15-00151-00-BR  
 C.H.1 STATION 22+08.93  
 STR. NO. 043-3024 LOADING HL-93

**NAME PLATE LETTERING**  
 Refer To Std. 51500  
 Existing Name Plate shall be cleaned and relocated next to new Name Plate.  
 Cost included with Name Plates.

**HIGHWAY CLASSIFICATION**  
 CH 1 (W Council Hill Road)  
 Functional Class: Minor Collector  
 ADT: 402 (2017); 407 (2037)  
 ADTT: 4 (2017); 4 (2037)  
 DHV: 40  
 Design Speed: 50 m.p.h.  
 Posted Speed: 55 m.p.h.  
 2-Way Traffic  
 Directional Distribution: 50:50



DATE: *Dixon A. Brown*  
 EXPIRES 11/30/18

"I Certify That To The Best Of My Knowledge, Information And Belief, This Bridge Design Is Structurally Adequate For The Design Loading Shown On The Plans. The Design Is An Economical One, & Complies With Requirements Of The Current "AASHTO Bridge Design Specifications For Highway Bridges"."



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

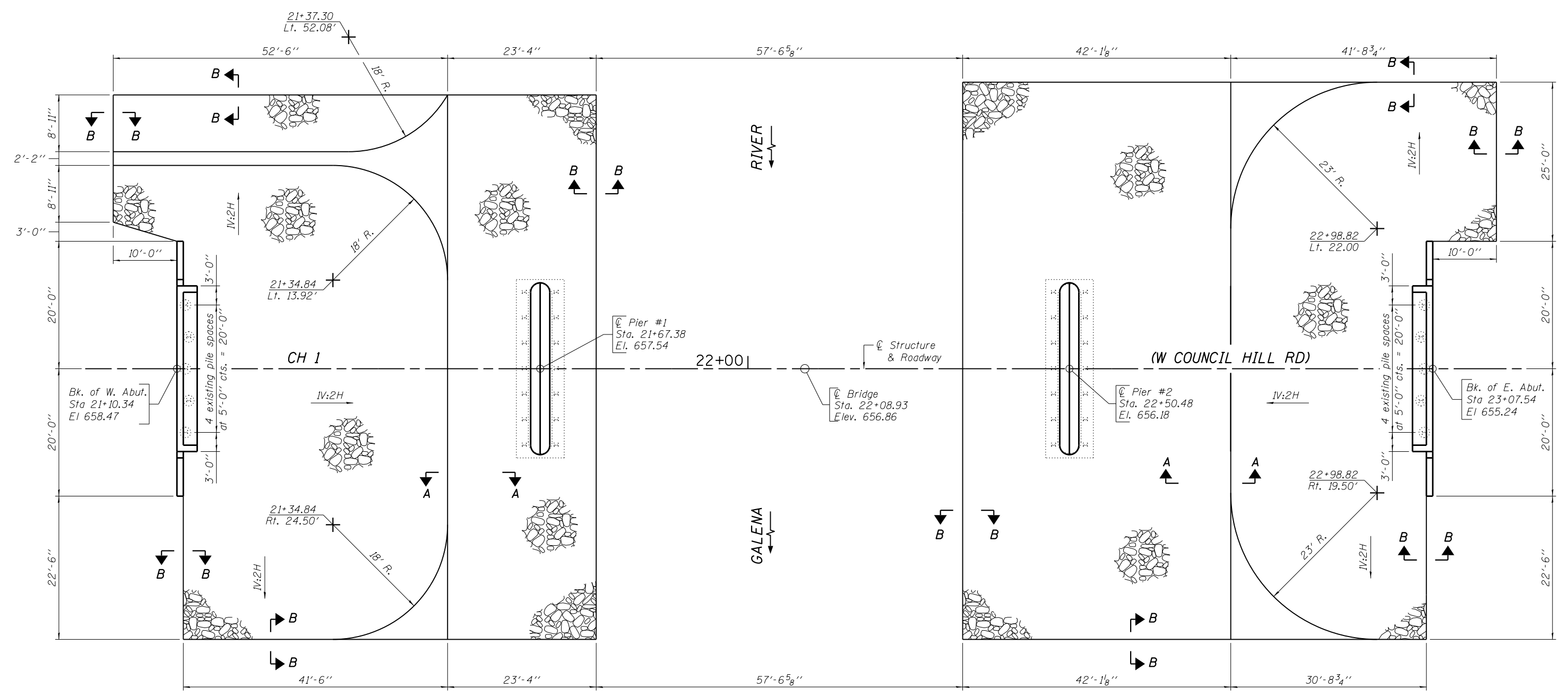
STRUCTURAL SHEET NO. 1 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	12
WHA* 1319D15		CONTRACT NO. 85653		
		[ILLINOIS] FED. AID PROJECT	BHOS-00810581	

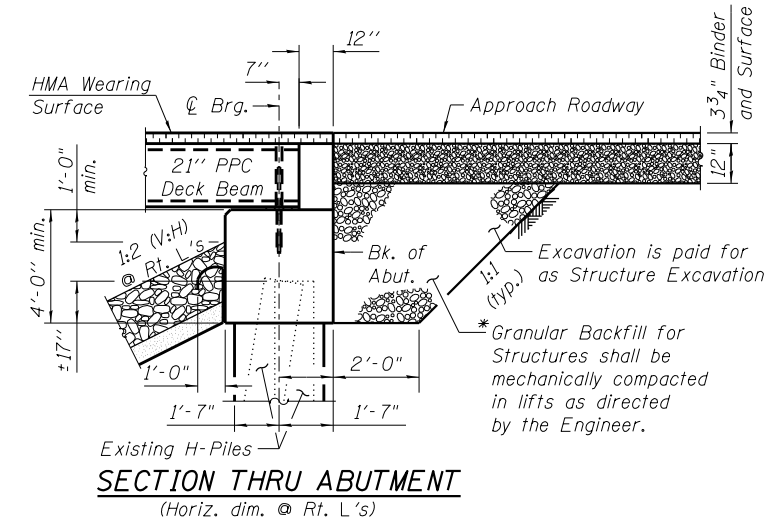
FILE = S:\PROJECTS\2015\1319D15\CONNECTIONS\STRUCT\_20\_Drawing\1319D15\_CPE.dgn



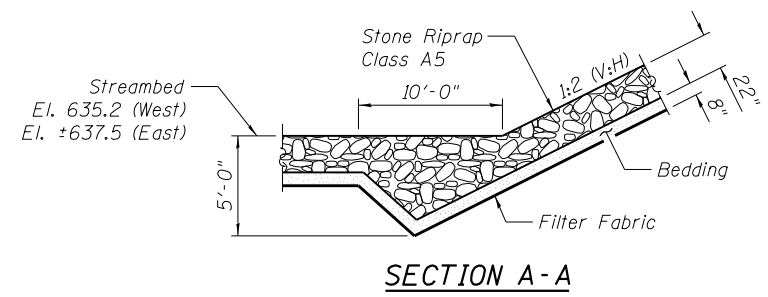
FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_DRAWINGS\Riprap and Pile Layout.dgn



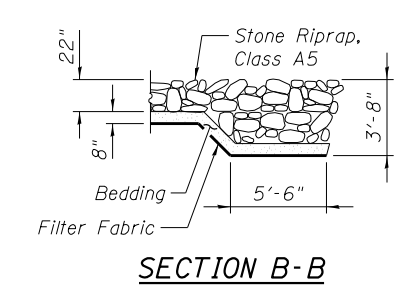
**PLAN VIEW**  
See Sheet 9 for existing utilities



**SECTION THRU ABUTMENT**  
(Horiz. dim. @ Rt. L's)



**SECTION A-A**



**SECTION B-B**

**BILL OF MATERIAL**

Item	Unit	Quantity
Stone Riprap, Class A5	Sq Yd	1,426
Filter Fabric	Sq Yd	1,426

**NOTE:**  
\* Pay limits of Granular Backfill for Structures shall extend to 2'-0" in from end of each wingwall.

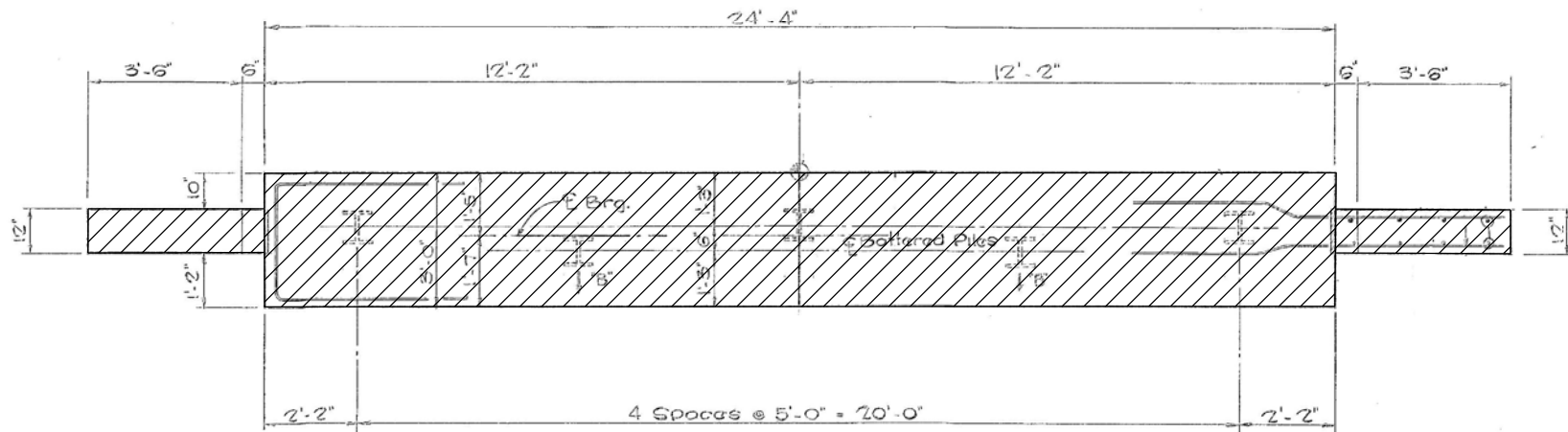
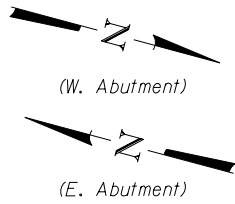


**WILLET HOFMANN & ASSOCIATES INC.**  
ENGINEERING ARCHITECTURE LAND SURVEYING  
809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-000918

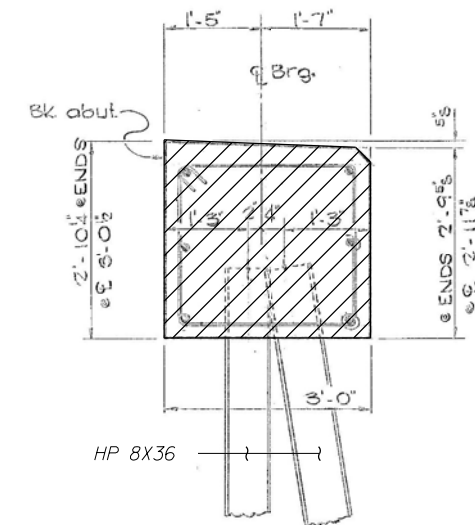
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**RIPRAP AND PILE LAYOUT**  
**STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 2 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	13
WHA# 1319015		CONTRACT NO. 85653		
		ILLINOIS FED. AID PROJECT BHOS-0085(058)		

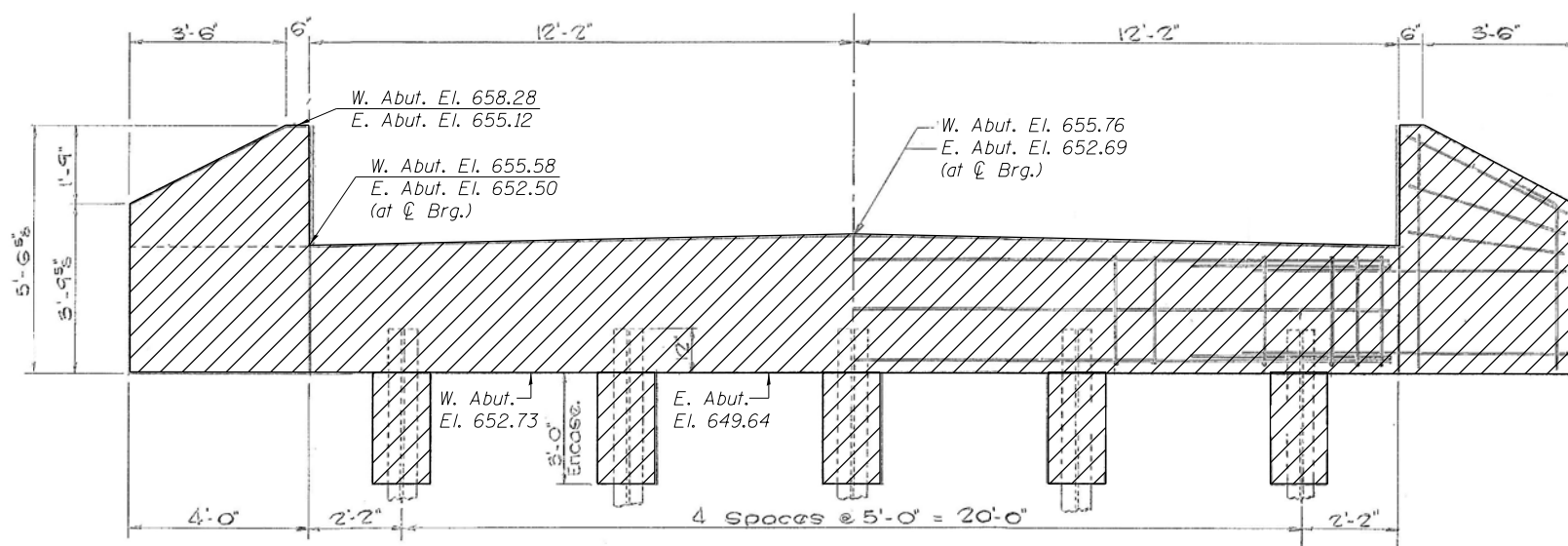


**ABUTMENT PLAN**

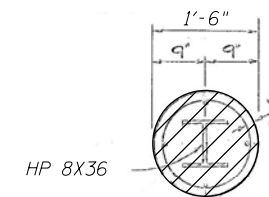
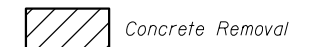


**SECTION THRU CAP**

West Abutment Shown,  
East Abutment Similar



**ELEVATION**



**SECTION THRU ENCASEMENT**

**NOTE:**

Existing piles shall remain in place and shall be cleaned prior to construction of abutment. See Special Provisions for Concrete Removal.

See Structural Sheet 18 of 21 for locations of existing asbestos bearing pads.

**BILL OF MATERIAL - PER ABUT.**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	10.3
Asbestos Bearing Pad Removal	Each	12

FILE : S:\PROJECTS\2015\1319015\1319015\_ARCH\DESIGN\STRUCT\2D\_Dr\Drawings\1319015\_Abutment\_Detail.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

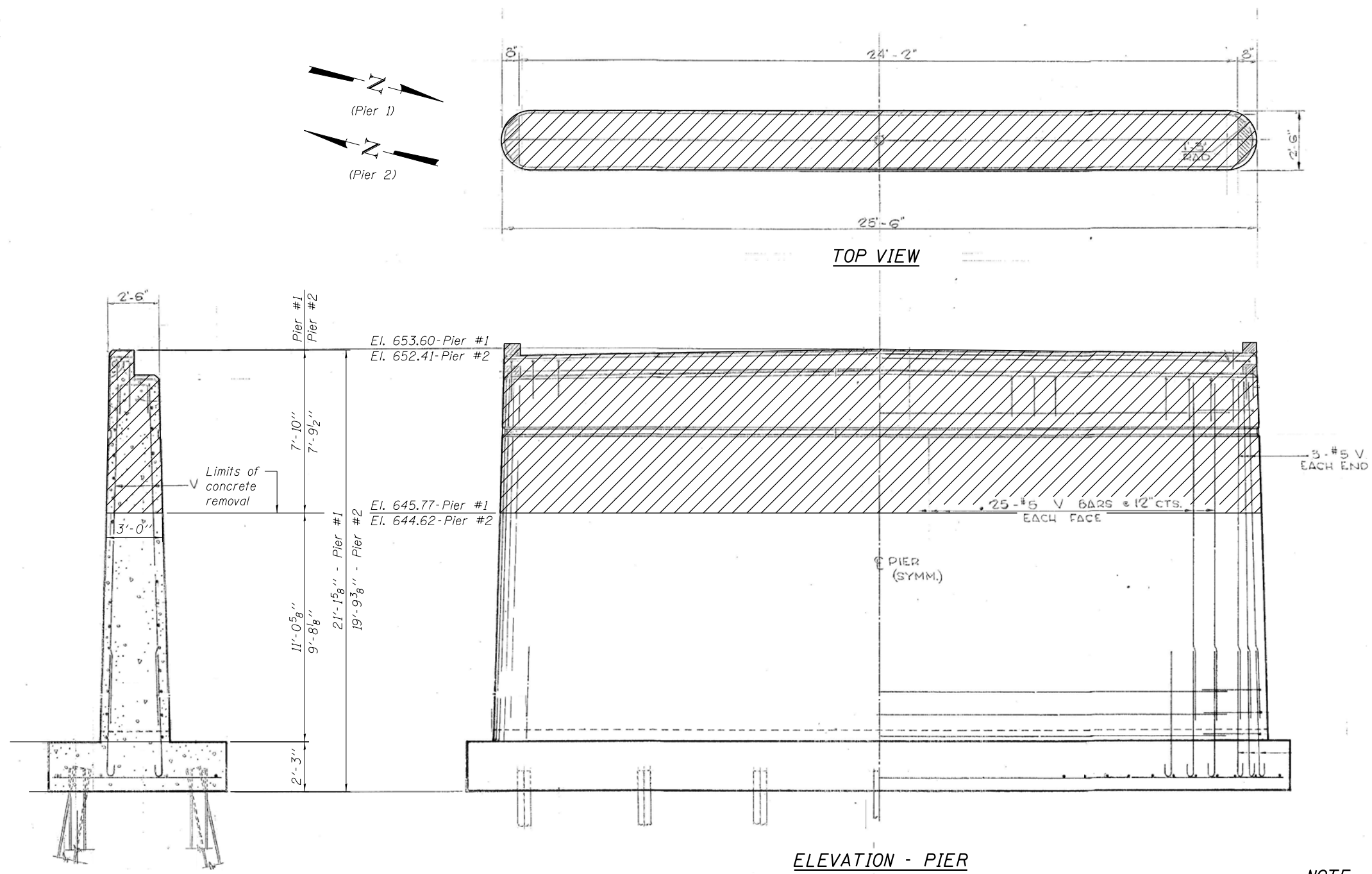
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**WEST & EAST ABUTMENT REMOVAL DETAIL**  
**STRUCTURE NO. 043-3024**

STRUCTURAL SHEET NO. 3 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	14
WHA# 1319015		CONTRACT NO. 85653		
		ILLINOIS FED. AID PROJECT BH05-0085(058)		

FILE : S:\PROJECTS\2015\1319015\JCH\DESIGN\STRUCT\2D\Drawings\1319015\_Pier\_Removal\_Details.dgn



SECTION THRU PIER

ELEVATION - PIER

**NOTE:**  
 All saw cuts shall be to such a depth that when concrete is removed, a clean, neat edge will result with no spalling of the remaining concrete. Saw cuts cost included with Concrete Removal. See Special Provisions for Concrete Removal.

See Structural Sheet 18 of 21 for locations of existing asbestos bearing pads.

**BILL OF MATERIAL - PER PIER**

Item	Unit	Quantity
Concrete Removal	Cu. Yd.	20.0
Asbestos Bearing Pad Removal	Each	28

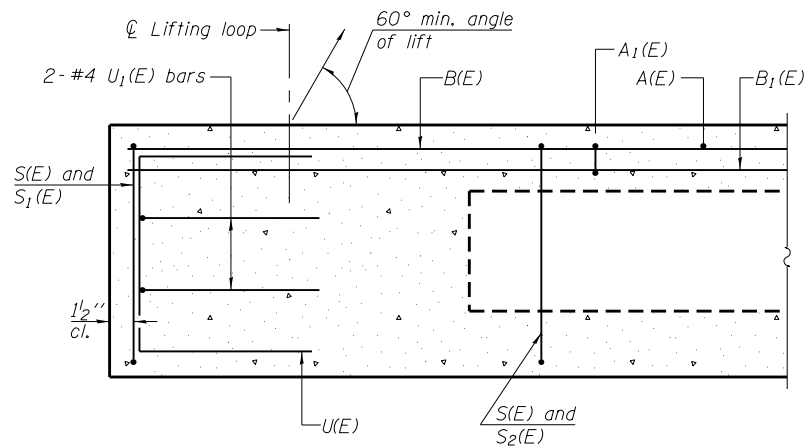


DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

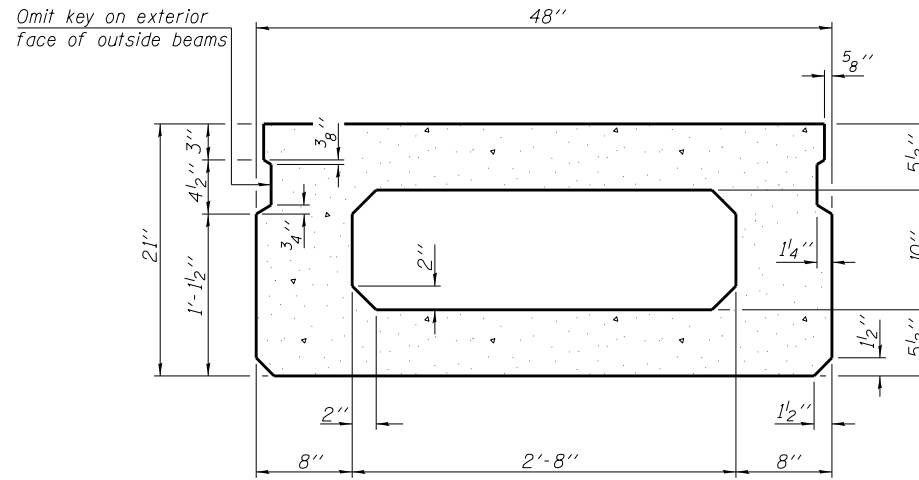
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**PIER #1 & PIER #2 REMOVAL DETAIL**  
**STRUCTURE NO. 043-3024**  
 STRUCTURAL SHEET NO. 4 OF 21 SHEETS

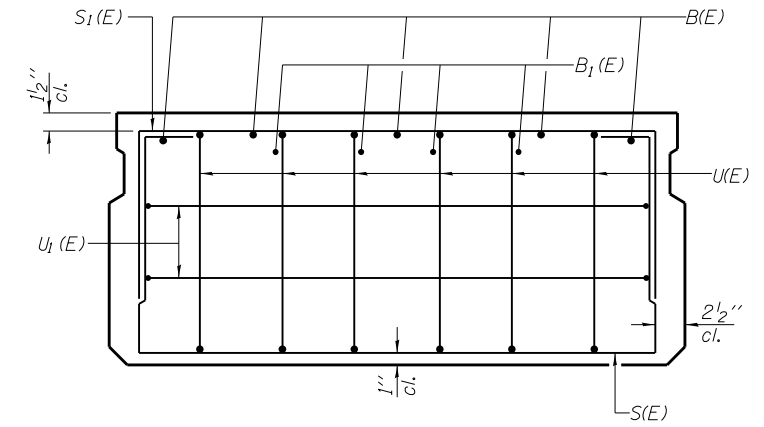
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	15
WHA# 1319015		CONTRACT NO. 85653		
		ILLINOIS FED. AID PROJECT BH05-0085(058)		



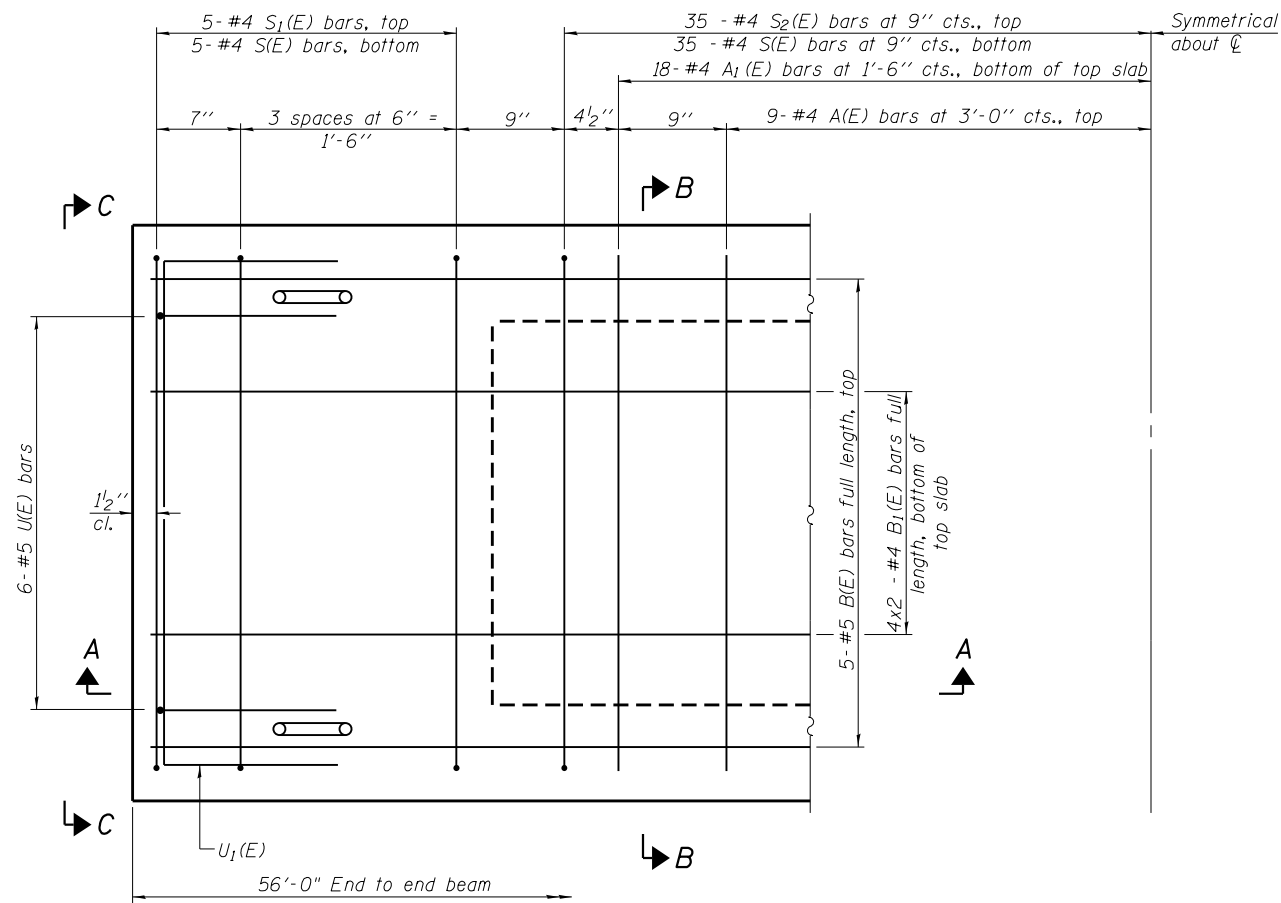
**SECTION A-A**



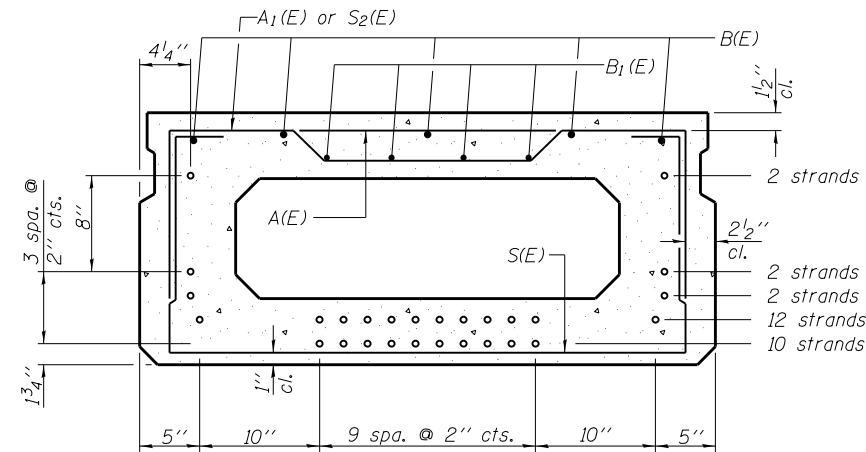
**SECTION B-B**  
(Showing dimensions)



**VIEW C-C**



**PLAN VIEW**



**SECTION B-B**

(Showing reinforcement and permissible strand locations)

**NOTE:**

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

**MINIMUM BAR LAP**

#4 bar = 1'-11"  
#5 bar = 2'-6"

**BAR LIST**  
**ONE BEAM ONLY**  
(For Information Only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	3'-7"	—
A1(E)	36	#4	3'-10"	~
B(E)	5	#5	55'-9"	—
B1(E)	8	#4	28'-10"	—
S(E)	80	#4	7'-5"	⌊
S1(E)	10	#4	5'-11"	⌊
S2(E)	80	#4	6'-2"	⌊
U(E)	12	#5	4'-0"	⌊
U1(E)	4	#4	6'-0"	⌊

**NOTES:**

See sheet 6 of 21 for additional details and Bill of Material.

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

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

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_DR\PPC Deck Beam.dgn



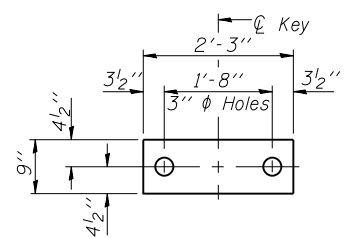
DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

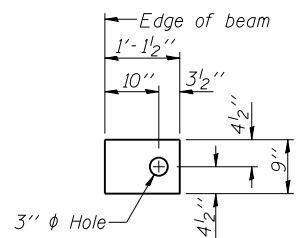
**21" x 48" PPC DECK BEAM**  
**STRUCTURE NO. 043-3024**

STRUCTURAL SHEET NO. 5 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	16
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHOS-0085(058)		



**FABRIC BEARING PAD**  
(Interior)

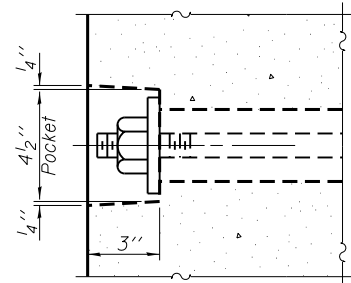


**FABRIC BEARING PAD**  
(Exterior)

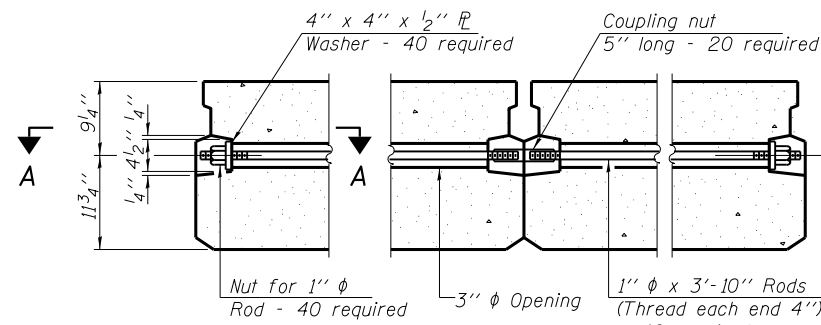
**FIXED**

**NOTES:**

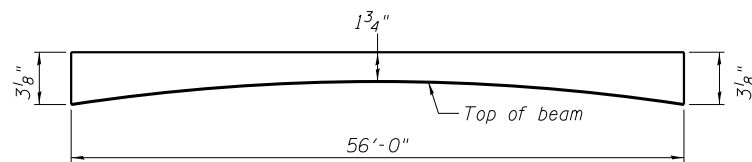
All bearing pads shall be 1" thick.  
Omit holes when using expansion bearings.



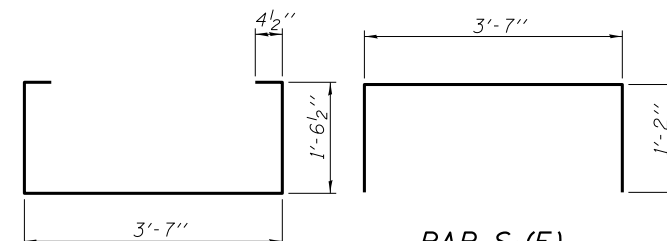
**SECTION A-A**



**TYPICAL TRANSVERSE TIE ASSEMBLY**

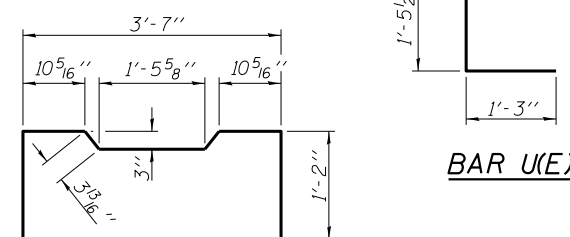


**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)



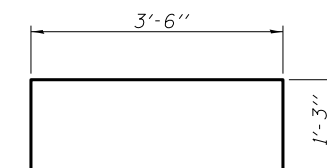
**BAR S(E)**

**BAR S<sub>1</sub>(E)**

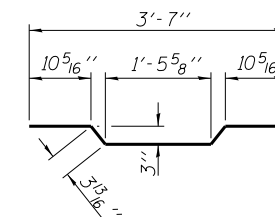


**BAR S<sub>2</sub>(E)**

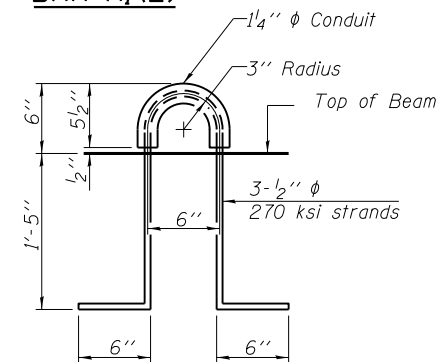
**BAR U(E)**



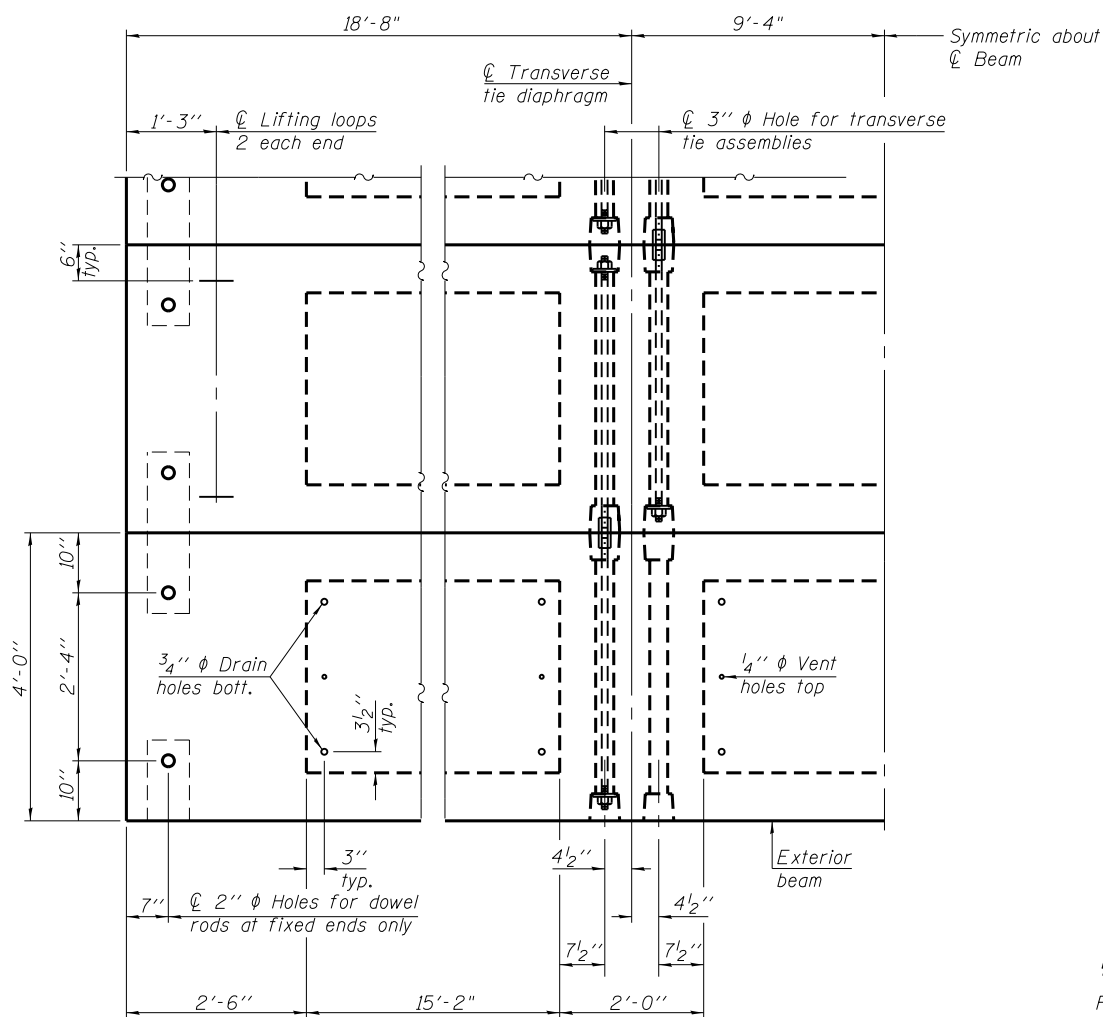
**BAR U<sub>1</sub>(E)**



**BAR A<sub>1</sub>(E)**



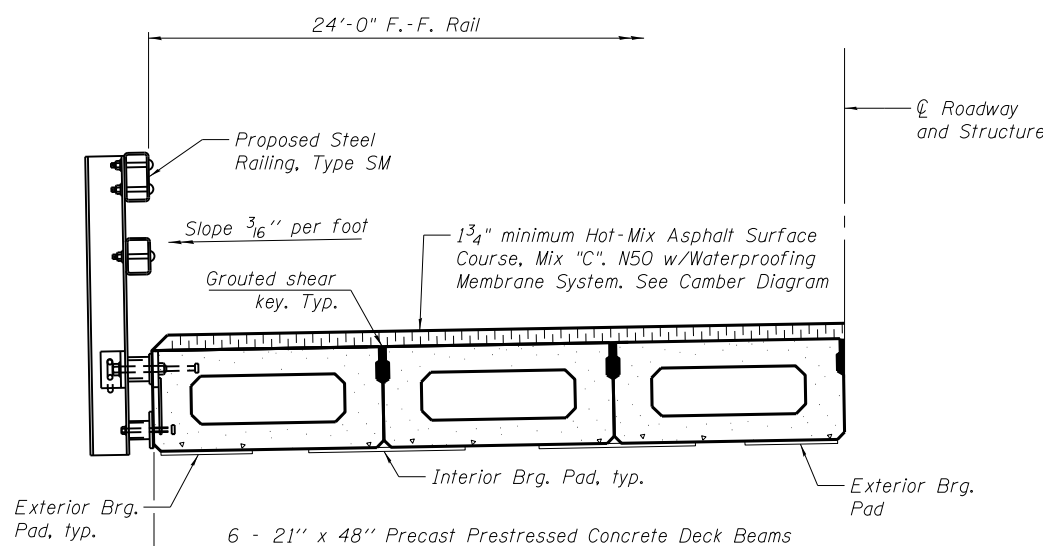
**LIFTING LOOP DETAIL**



**PLAN VIEW**

**NOTE:**

Connect beams in pairs with the transverse tie configuration shown.



**HALF CROSS SECTION**  
(Looking East)

**NOTES**

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

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

Corrosion inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6,000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5,000 psi.

**BILL OF MATERIAL - SPAN 1 AND 3**

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix "C", N50	Tons	42
Precast Prestressed Concrete Deck Beams (21" Depth)	Sq. Ft.	2,688
Waterproofing Membrane System	Sq. Yd.	304
Portland Cement Mortar Fairing Course	Foot	560

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_21 x 48 PPC Deck Beam Detail.sldg



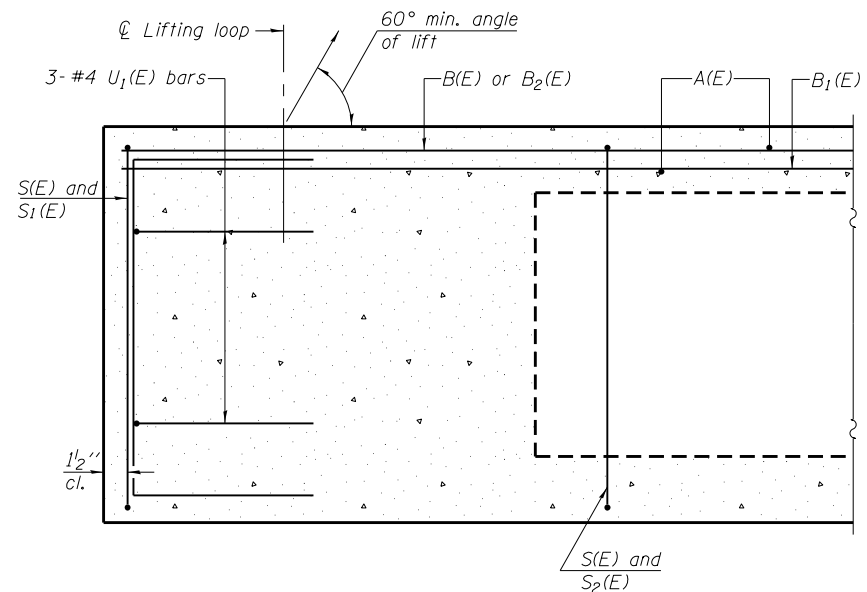
DESIGNED - IPN	REVISED - -
CHECKED - MAC	REVISED - -
DRAWN - FDL	REVISED - -
CHECKED - EEL	REVISED - -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

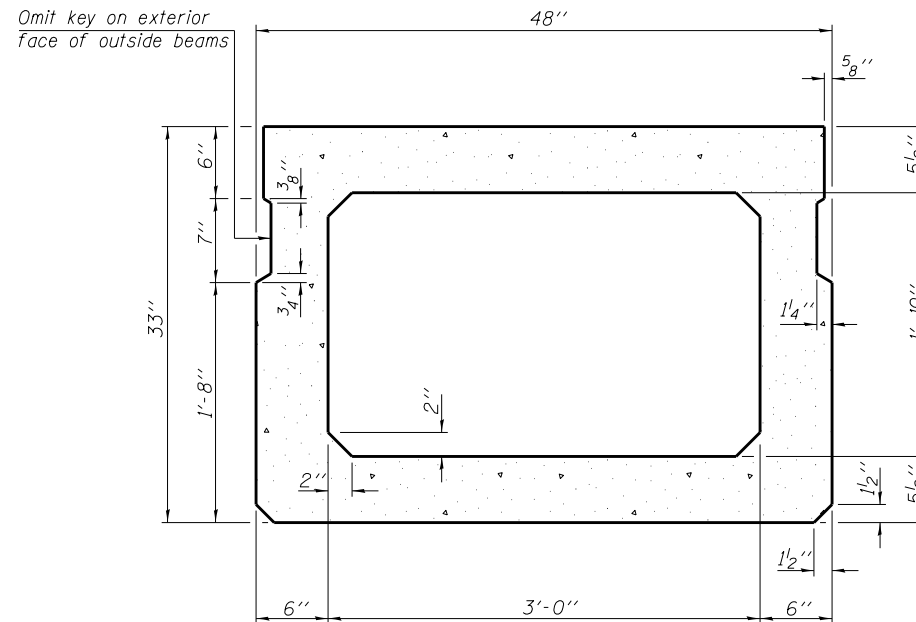
**21" x 48" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 043-3024**

STRUCTURAL SHEET NO. 6 OF 21 SHEETS

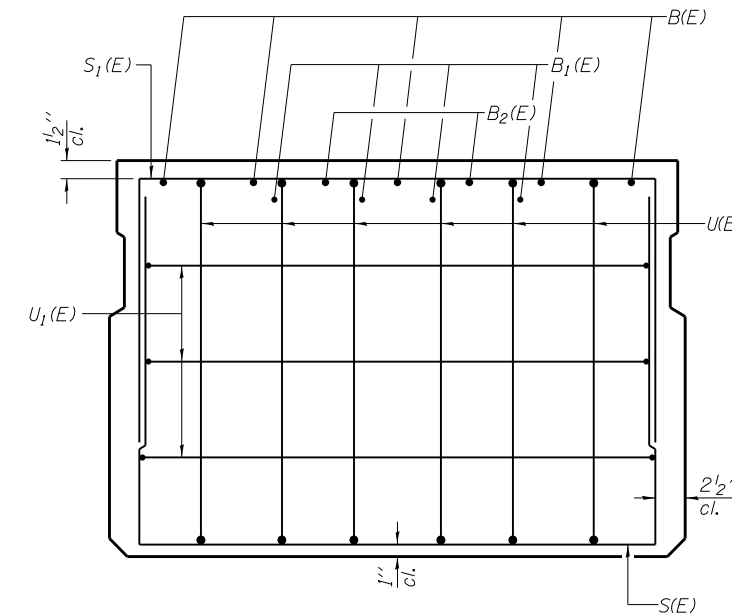
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	17
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHOS-0085(058)		



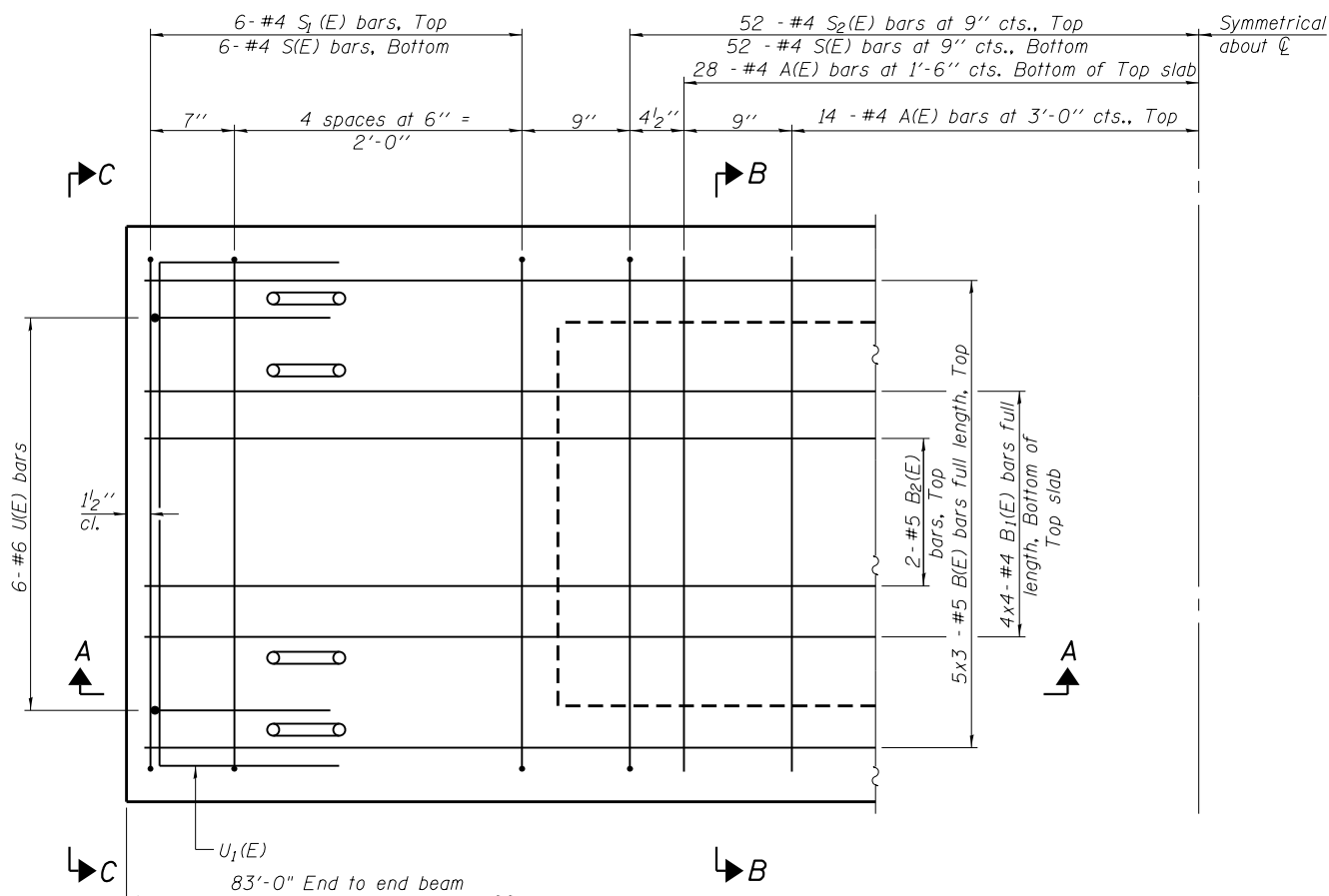
**SECTION A-A**



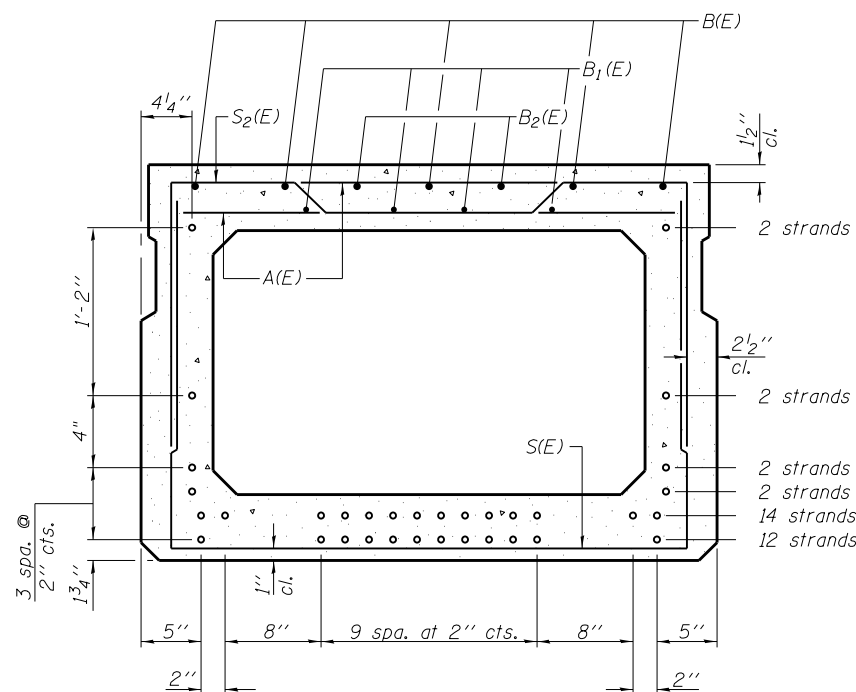
**SECTION B-B**  
(Showing dimensions)



**VIEW C-C**



**PLAN VIEW**



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

**NOTE:**

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

**MINIMUM BAR LAP**

#4 bar = 1'-11"  
#5 bar = 2'-6"

**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	84	#4	3'-7"	—
B(E)	15	#5	29'-3"	—
B1(E)	16	#4	22'-2"	—
B2(E)	4	#5	10'-0"	—
S(E)	116	#4	8'-8"	U
S1(E)	12	#4	7'-5"	U
S2(E)	104	#4	7'-8"	U
U(E)	12	#6	5'-0"	U
U1(E)	6	#4	6'-0"	U

**NOTES:**

See sheet 8 of 21 for additional details and Bill of Material.

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

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

FILE = S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_33 x 48 PPC Deck Beams.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

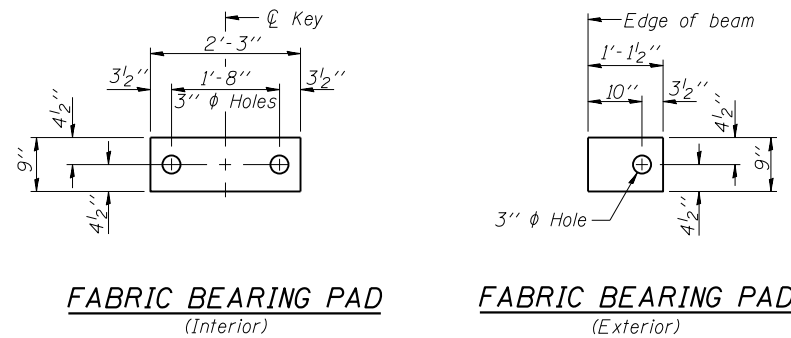
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**33" x 48" PPC DECK BEAM**  
**STRUCTURE NO. 043-3024**

STRUCTURAL SHEET NO. 7 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	18
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHOS-0085(058)		





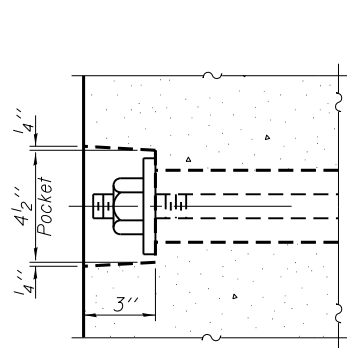
**FABRIC BEARING PAD**  
(Interior)

**FABRIC BEARING PAD**  
(Exterior)

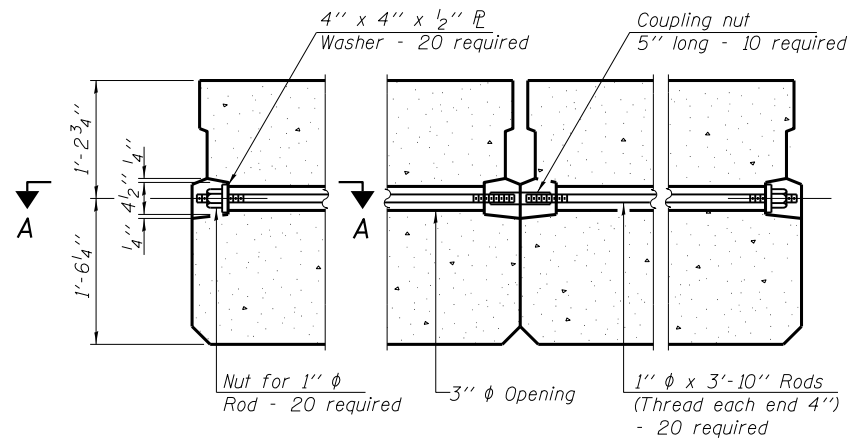
**FIXED**

**NOTES:**

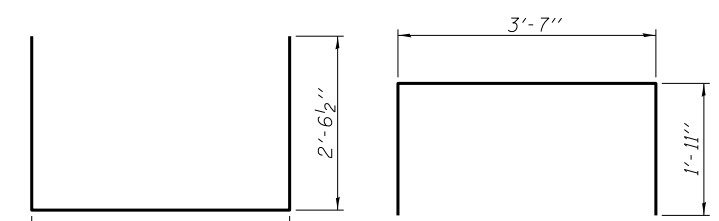
All bearing pads shall be 1" thick.  
Omit holes when using expansion bearings.



**SECTION A-A**

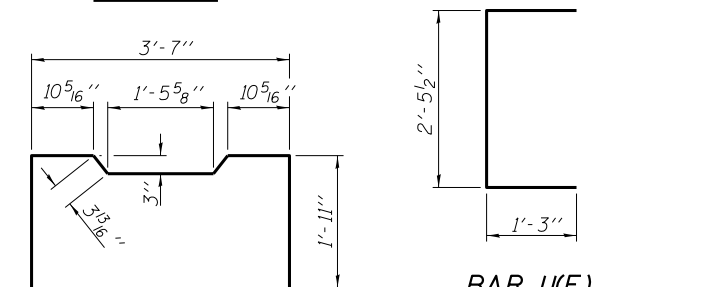


**TYPICAL TRANSVERSE TIE ASSEMBLY**



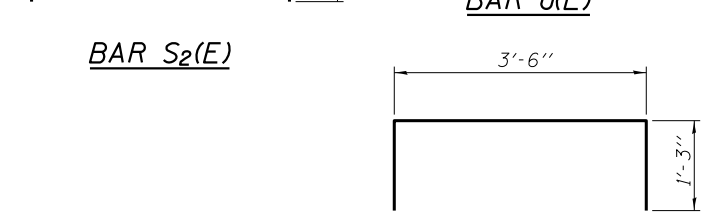
**BAR S(E)**

**BAR S<sub>1</sub>(E)**

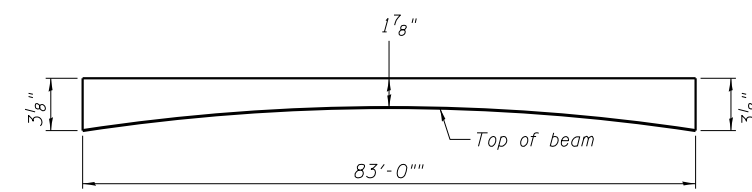


**BAR S<sub>2</sub>(E)**

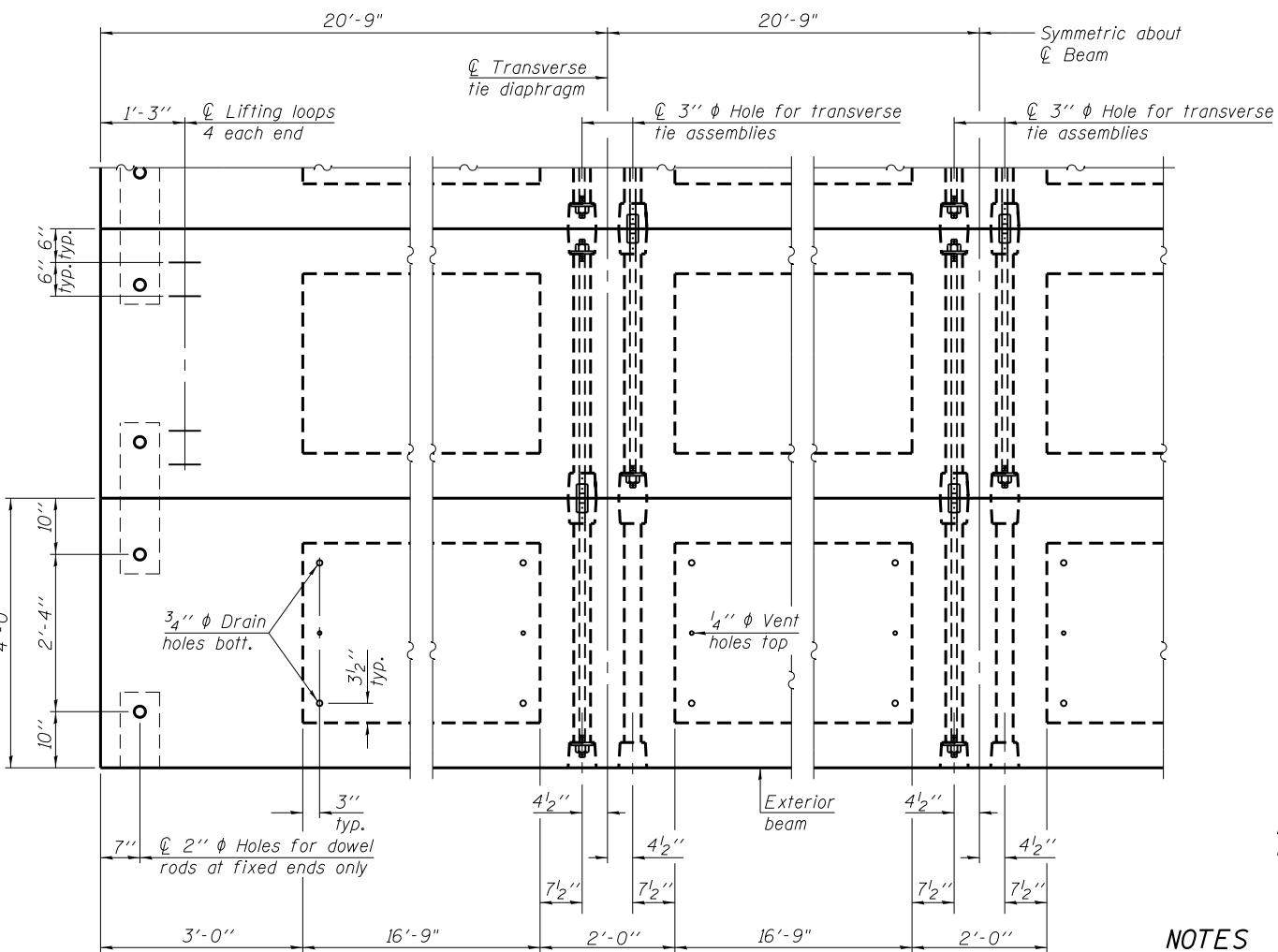
**BAR U(E)**



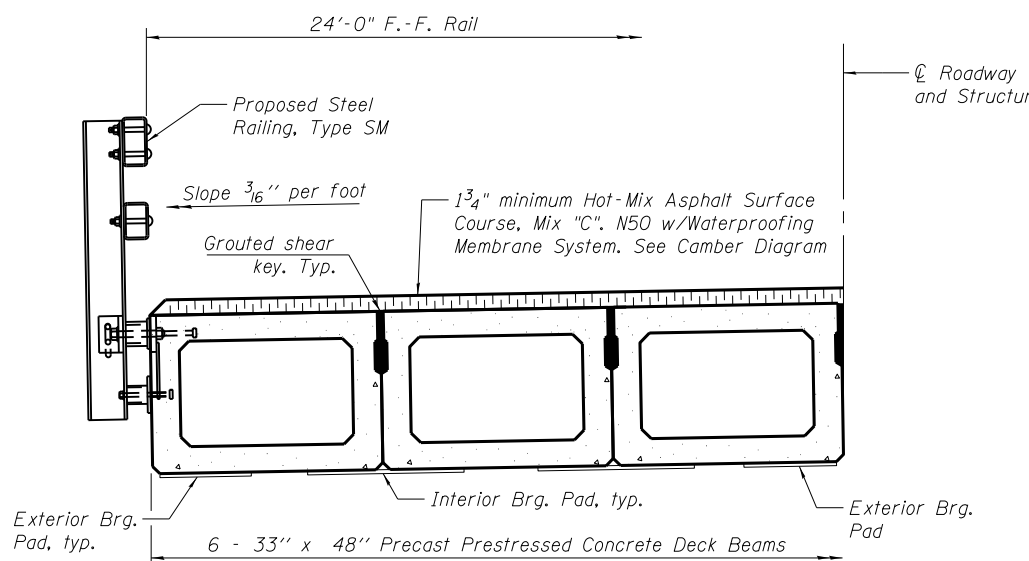
**BAR U<sub>1</sub>(E)**



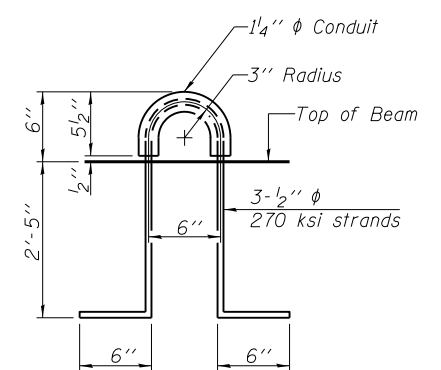
**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only)



**PLAN VIEW**



**HALF CROSS SECTION**  
(Looking East)



**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.
- The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
- Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
- A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
- Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
- Compressive strength of prestressed concrete, f'c, shall be 6,000 psi.
- Compressive strength of prestressed concrete at release, f'ci, shall be 5,000 psi.

**BILL OF MATERIAL - SPAN 2**

ITEM	UNIT	QUANTITY
Hot-Mix Asphalt Surface Course, Mix "C", N50	Tons	31
Precast Prestressed Concrete Deck Beams (33" Depth)	Sq. Ft.	1,992
Waterproofing Membrane System	Sq. Yd.	222
Portland Cement Mortar Fairing Course	Foot	415

**NOTE:**

Connect beams in pairs with the transverse tie configuration shown.

FILE = S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_33 x 48 PPC Deck Beam Detail.dgn



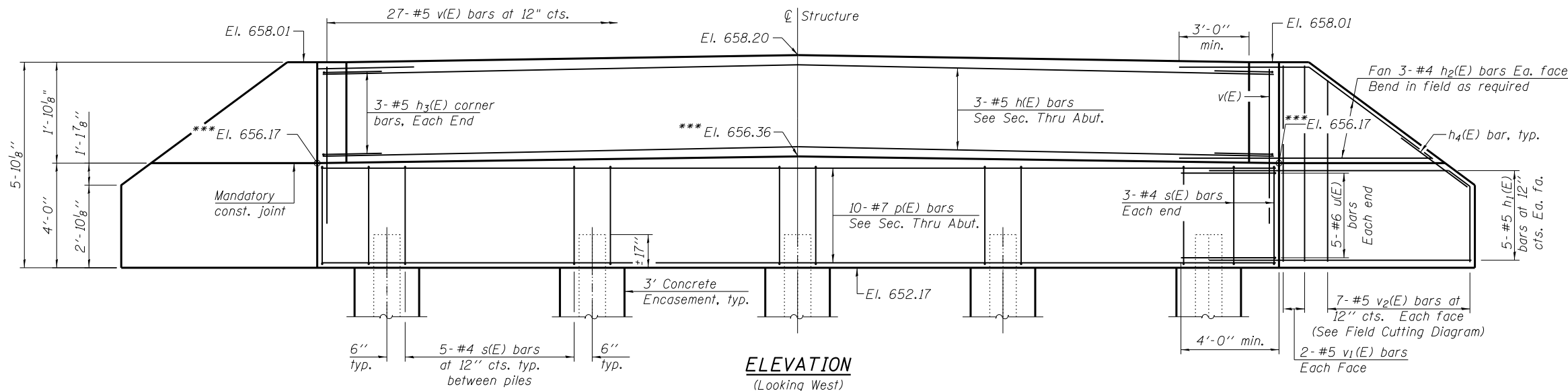
DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**33" x 48" PPC DECK BEAM DETAILS**  
**STRUCTURE NO. 043-3024**

STRUCTURAL SHEET NO. 8 OF 21 SHEETS

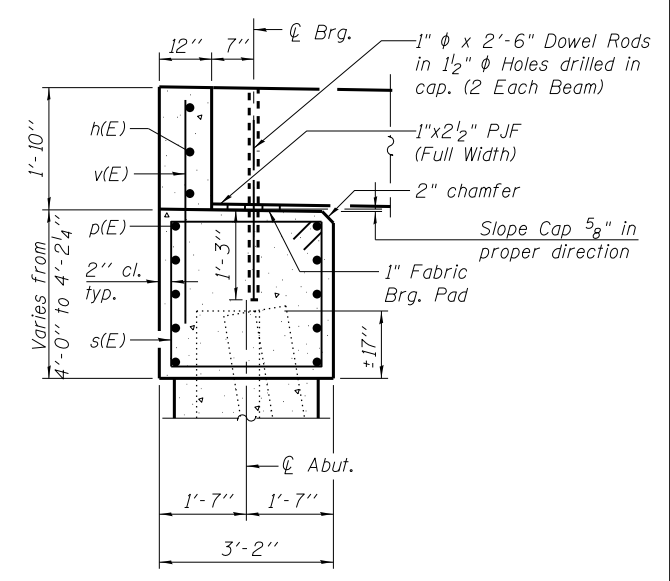
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	19
WHA# 1319D15		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BH05-0085(058)	



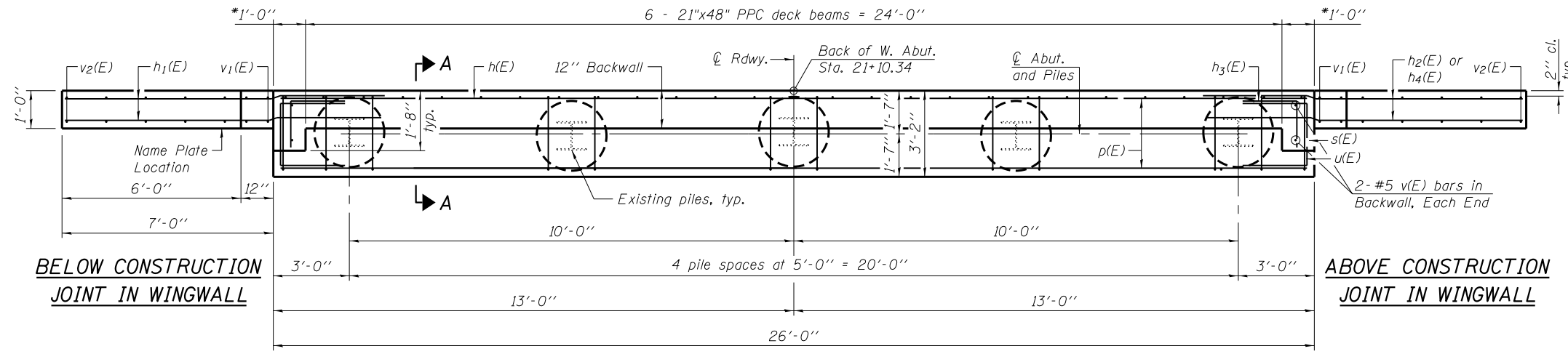
**ELEVATION**

(Looking West)

\*\*\*Taken at C Brg.; See Slope note in Section A-A



**SECTION A-A**



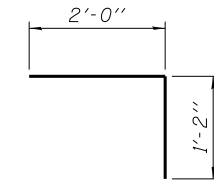
**PLAN**

**BILL OF MATERIAL**

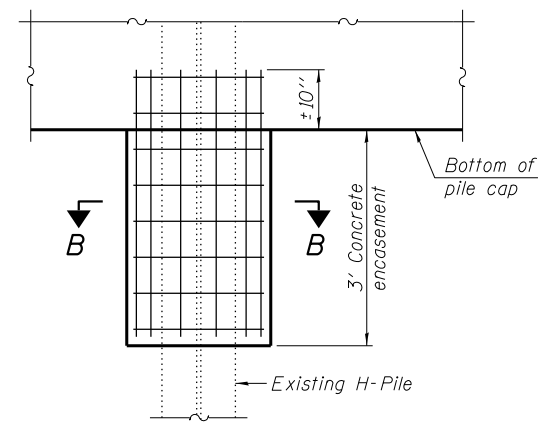
Bar	No.	Size	Length	Shape
h(E)	3	#5	25'-8"	—
h1(E)	20	#5	10'-10"	—
h2(E)	12	#4	9'-1"	—
h3(E)	6	#5	3'-2"	└
h4(E)	4	#4	4'-8"	—
p(E)	10	#7	25'-8"	—
s(E)	26	#4	13'-9"	□
u(E)	10	#6	7'-6"	▭
v(E)	31	#5	4'-4"	—
v1(E)	8	#5	5'-6"	—
v2(E)	14	#5	8'-0"	—
Structure Excavation			Cu. Yd.	36
Concrete Structures			Cu. Yd.	16.7
Reinforcement Bars, Epoxy Coated			Pound	1,590
Concrete Encasement			Cu. Yd.	1.0
** Granular Backfill For Structures			Cu. Yd.	24

**BELOW CONSTRUCTION JOINT IN WINGWALL**

**ABOVE CONSTRUCTION JOINT IN WINGWALL**



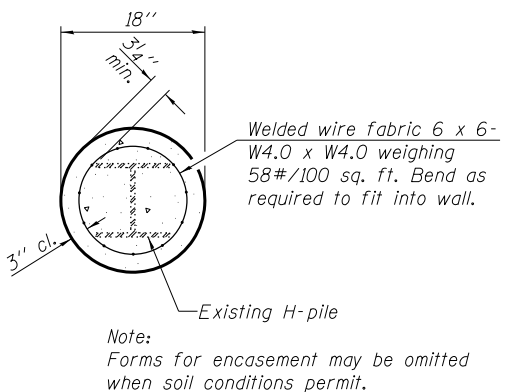
**BAR h3(E)**



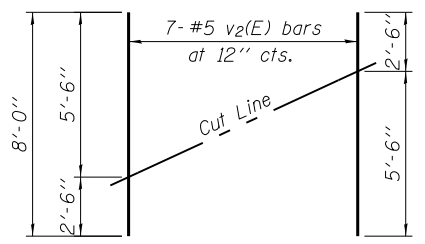
**ELEVATION**

**PILE ENCASEMENT**

Typical, each battered and non-battered pile

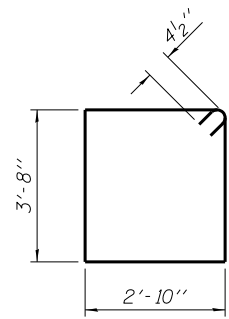


**SECTION B-B**

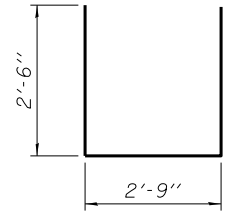


**FIELD CUTTING DIAGRAM**

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



**BAR s(E)**



**BAR u(E)**

**NOTES:**

Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours. All exposed edges shall have standard 3/4" chamfers, except as noted. Space reinforcement in cap to miss dowel rods.

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 a min. of 24 hours prior to grouting the shear keys.

\* May vary due to overrun of beams.  
\*\* For drainage details, see Structural Sheet 2 of 21.

FILE = S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawings\1319015\_West Abutment\_Detail.dgn



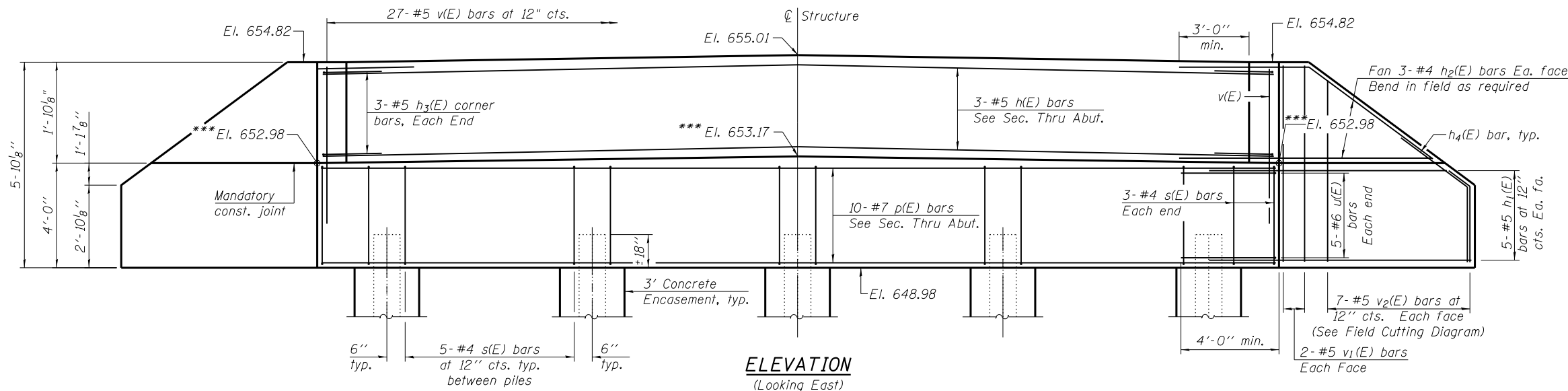
DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**WEST ABUTMENT DETAIL**  
**STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 9 OF 21 SHEETS

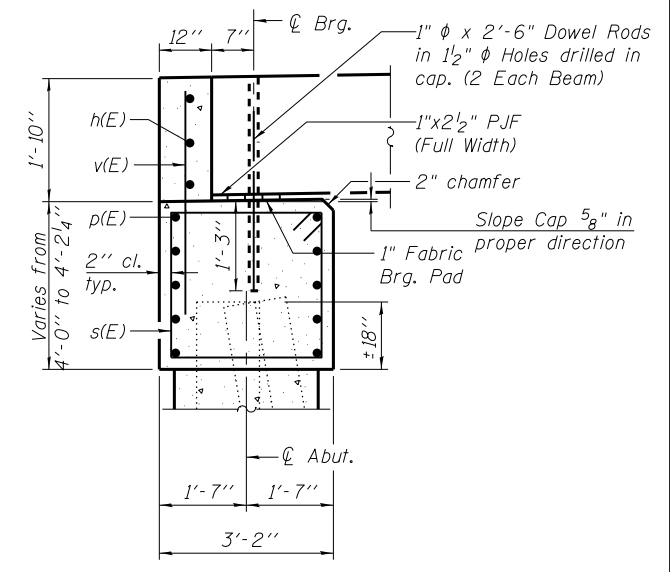
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	20
	WHA# 1319015	CONTRACT NO. 85653		

ILLINOIS FED. AID PROJECT BH05-0085(058)

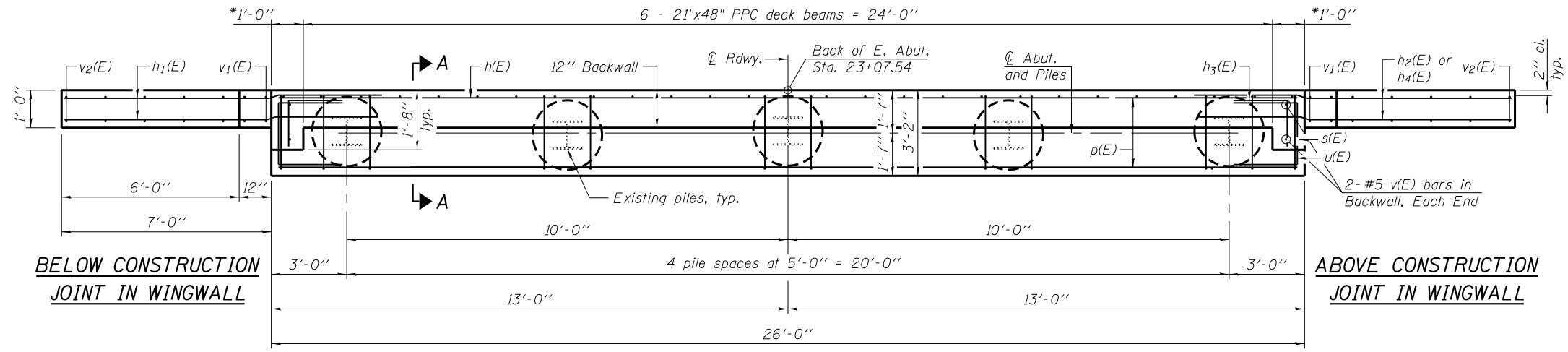
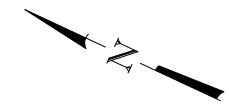


**ELEVATION**  
(Looking East)

\*\*\*Taken at  $\odot$  Brg.; See Slope note in Section A-A



**SECTION A-A**



**PLAN**

**BELOW CONSTRUCTION JOINT IN WINGWALL**

**ABOVE CONSTRUCTION JOINT IN WINGWALL**

**BILL OF MATERIAL**

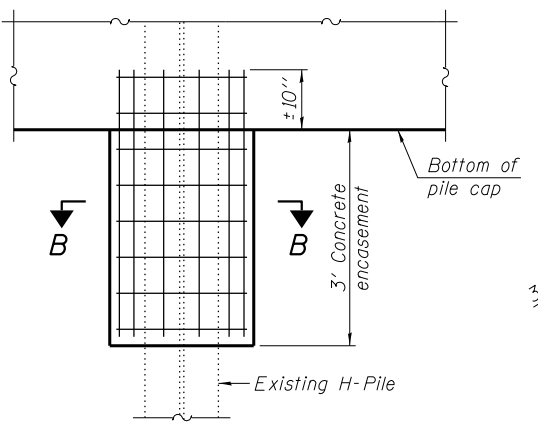
Bar	No.	Size	Length	Shape
h(E)	3	#5	25'-8"	—
h1(E)	20	#5	10'-10"	—
h2(E)	12	#4	9'-1"	—
h3(E)	6	#5	3'-2"	└
h4(E)	4	#4	4'-8"	—
p(E)	10	#7	25'-8"	—
s(E)	26	#4	13'-9"	□
u(E)	10	#6	7'-6"	▭
v(E)	31	#5	4'-4"	—
v1(E)	8	#5	5'-6"	—
v2(E)	14	#5	8'-0"	—
Structure Excavation			Cu. Yd.	36
Concrete Structures			Cu. Yd.	16.7
Reinforcement Bars, Epoxy Coated			Pound	1,590
Concrete Encasement			Cu. Yd.	1.0
** Granular Backfill For Structures			Cu. Yd.	24

**BAR h3(E)**

**NOTES:**

Hatched portion of wingwalls to be poured with the backwall after the deck beams have been installed and grout has cured for a minimum of 24 hours. All exposed edges shall have standard 3/4" chamfers, except as noted. Space reinforcement in cap to miss dowel rods. 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 a min. of 24 hours prior to grouting the shear keys.

\* May vary due to overrun of beams.  
\*\* For drainage details, see Structural Sheet 2 of 21.

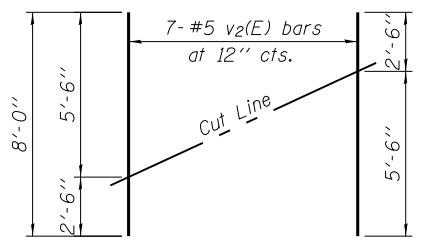


**ELEVATION**

**SECTION B-B**

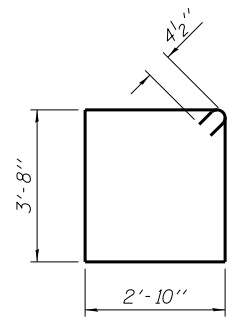
**PILE ENCASEMENT**

Typical, each battered and non-battered pile

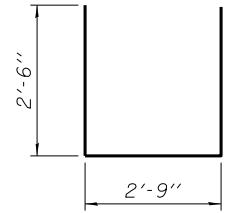


**FIELD CUTTING DIAGRAM**

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



**BAR s(E)**



**BAR u(E)**

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_East Abutment\_Detail.dgn



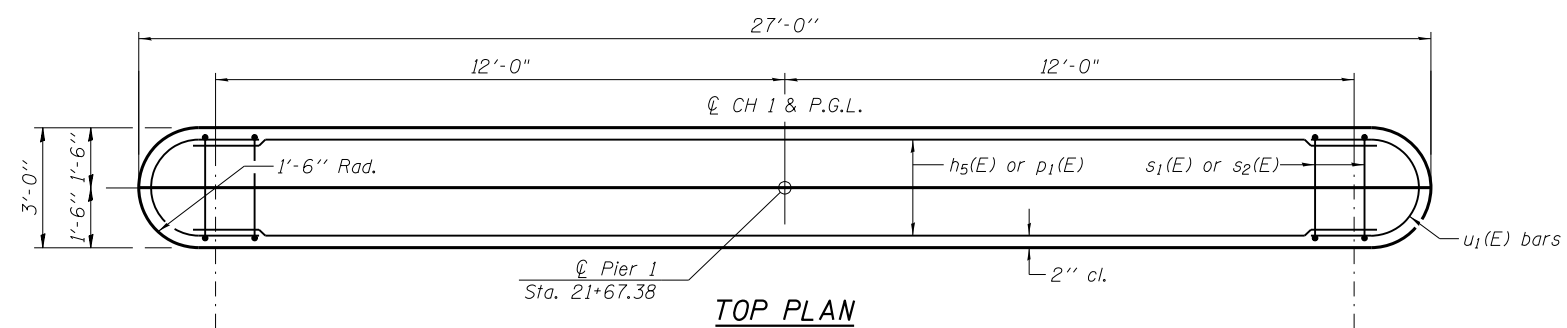
DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

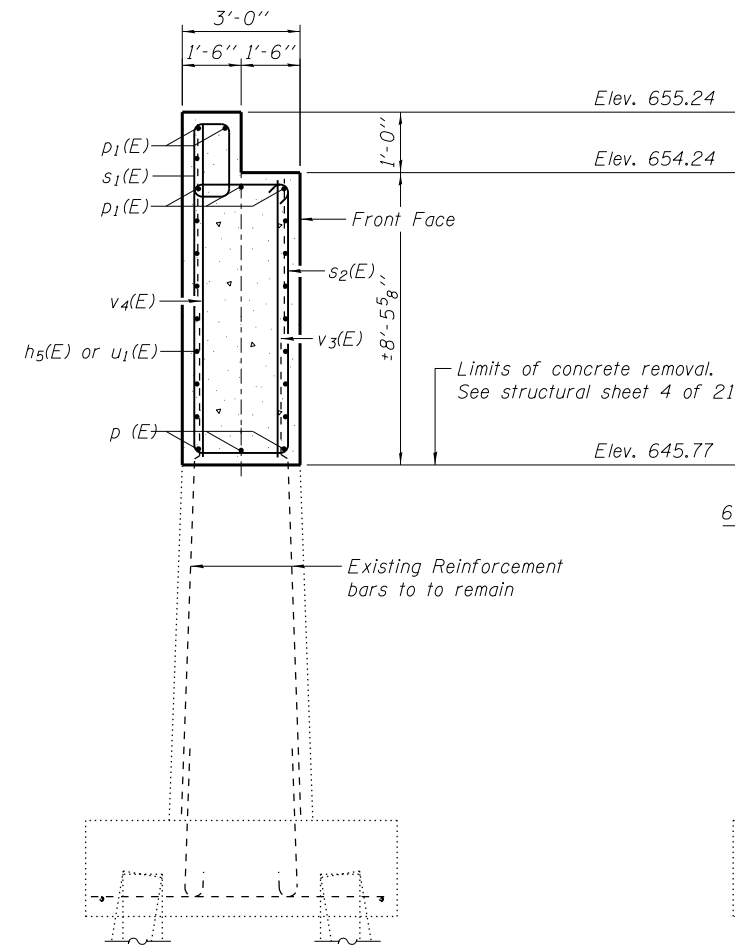
**EAST ABUTMENT DETAIL**  
**STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 10 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	21
	WHA# 1319015	CONTRACT NO.	85653	

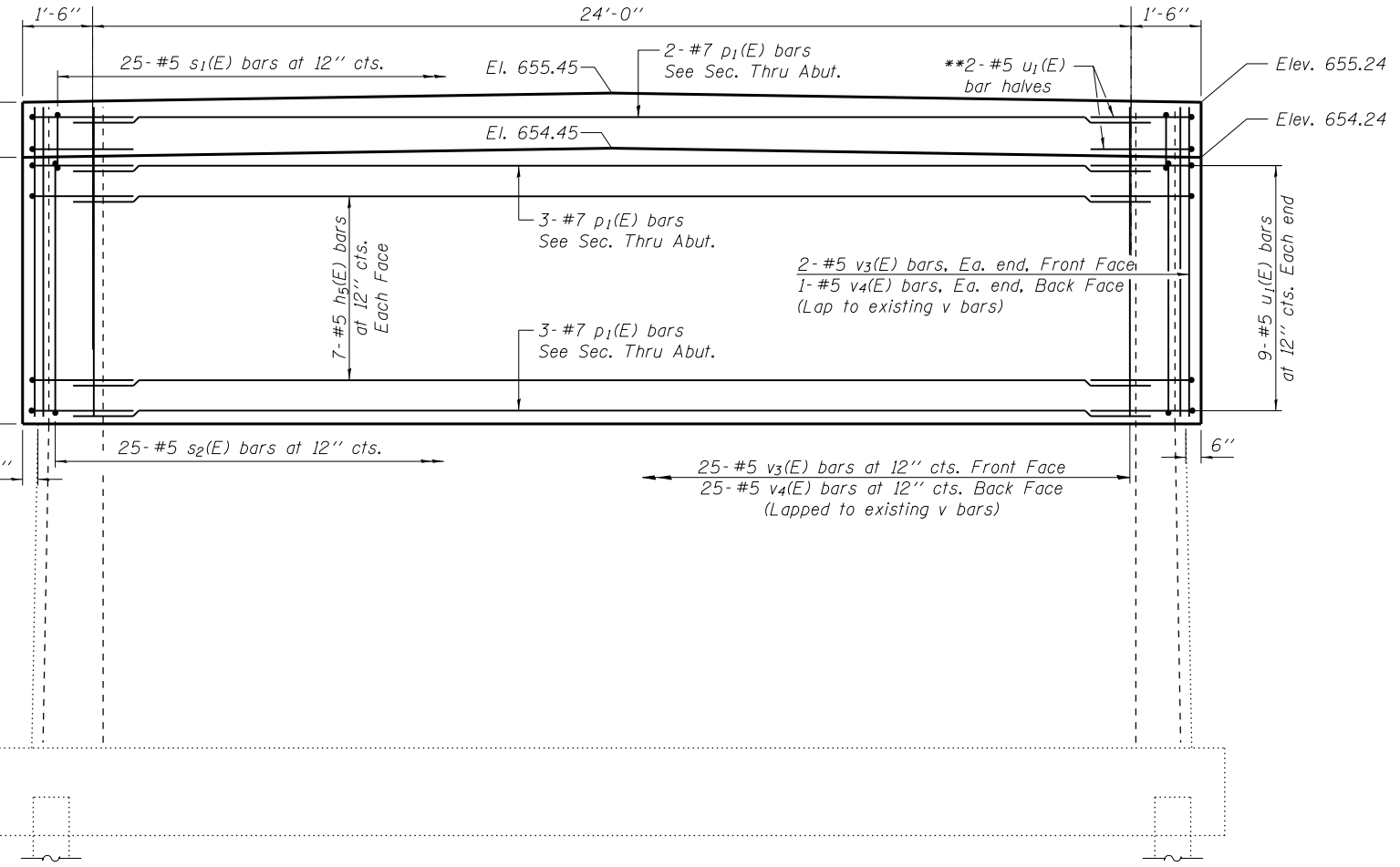
ILLINOIS FED. AID PROJECT BH05-0085(058)



**TOP PLAN**

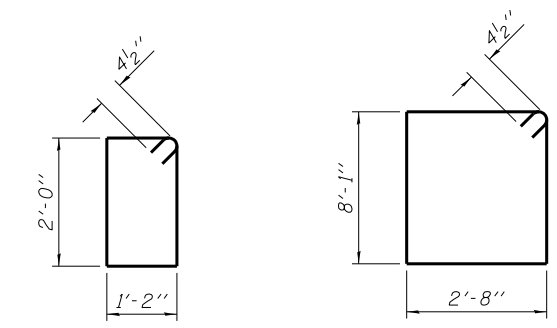


**END VIEW**

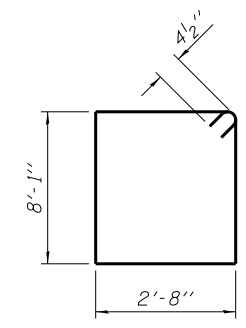


**ELEVATION**  
(Looking West)

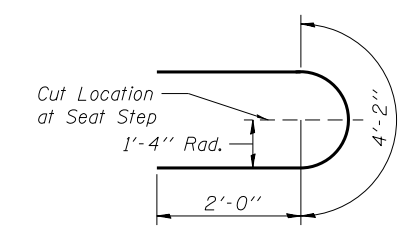
\*\*Take single u(E) bar and cut per bar detail; typical each end



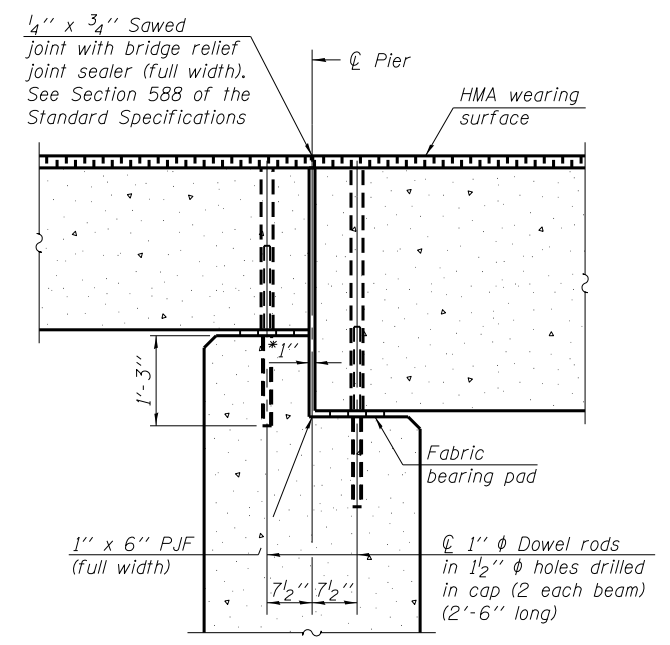
**BAR s1(E)**



**BAR s2(E)**



**BAR u1(E)**



**SECTION THRU PIER**

With HMA wearing surface  
(Dimensions are at Rt. L's.)

\*1" Joint shall be filled with non-shrink grout.  
1" dimensions may vary to accommodate tolerance in beam length.

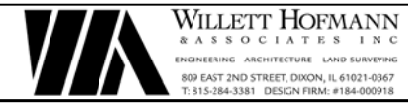
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h5(E)	14	#5	24'-0"	—
p1(E)	8	#7	24'-0"	—
s1(E)	25	#4	7'-1"	□
s2(E)	25	#4	22'-3"	□
u1(E)	20	#5	8'-2"	U
v3(E)	29	#5	8'-5"	—
v4(E)	27	#5	9'-5"	—
Concrete Structures			Cu. Yd.	26.6
Reinforcement Bars, Epoxy Coated			Pound	1,920

**NOTE:**

For existing pier plans, See structural sheet 19 of 21.

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawings\1319015\_Pier\_1\_Details.rvt

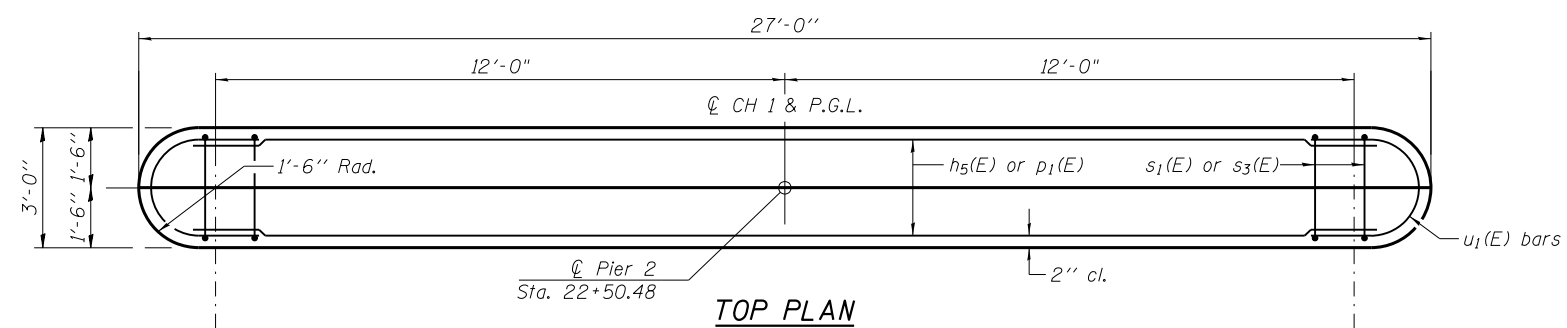
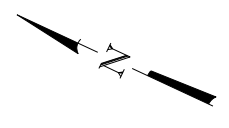


DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

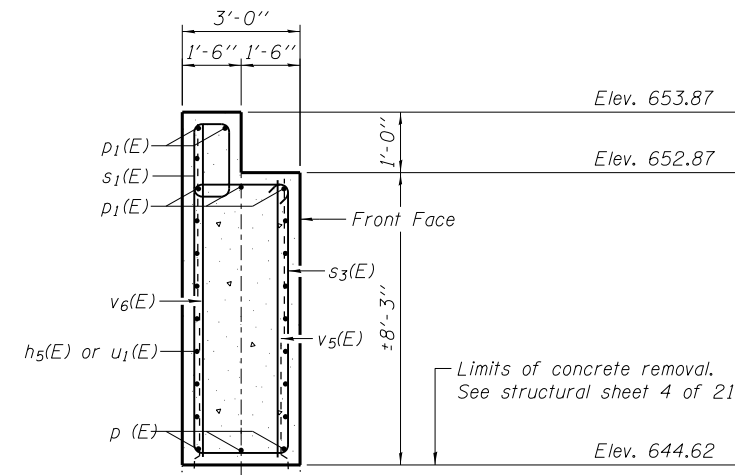
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**PIER #1 DETAILS**  
**STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 11 OF 21 SHEETS

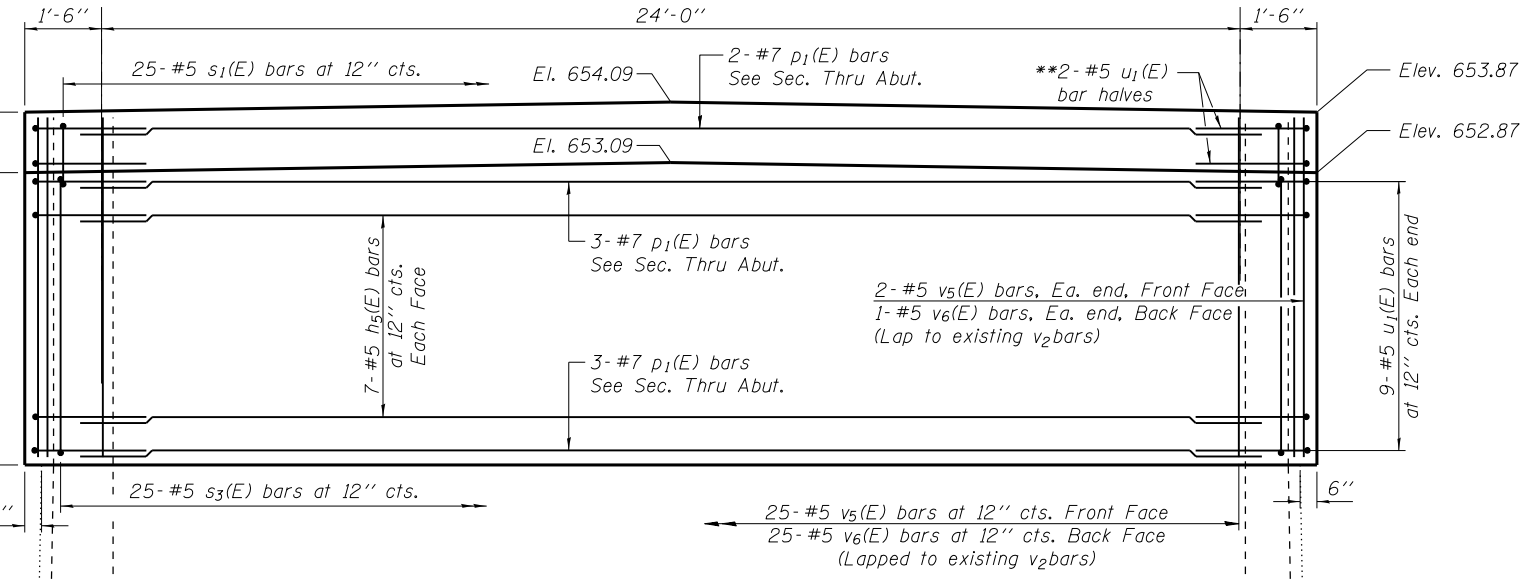
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	22
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BHOS-0085(058)	



**TOP PLAN**

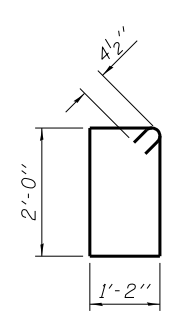


**END VIEW**

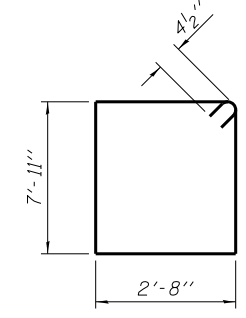


**ELEVATION**  
(Looking East)

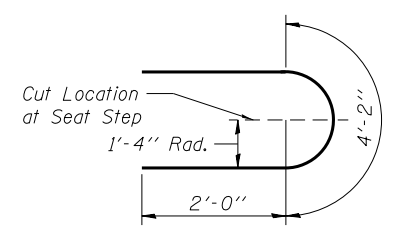
\*\*Take single u(E) bar and cut per bar detail; typical each end



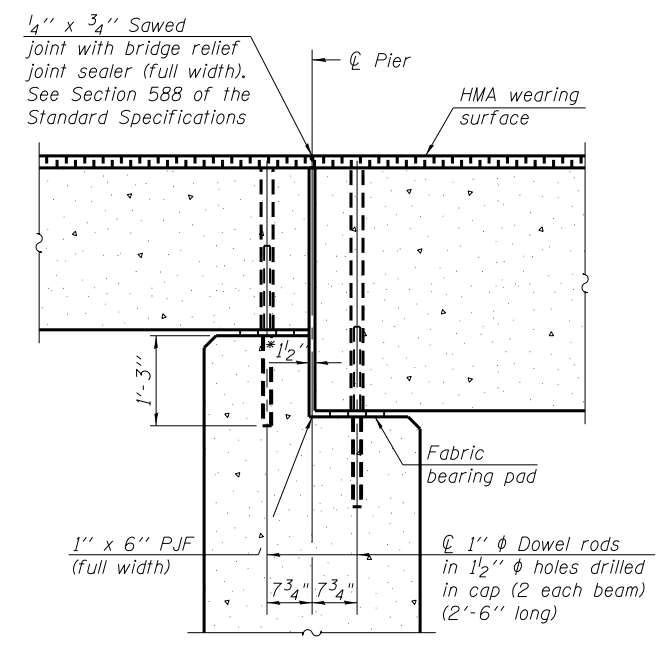
**BAR s1(E)**



**BAR s3(E)**



**BAR u1(E)**



**SECTION THRU PIER**

With HMA wearing surface  
(Dimensions are at Rt. L's.)

\*1/2" Joint shall be filled with non-shrink grout.  
1/2" dimensions may vary to accommodate tolerance in beam length.

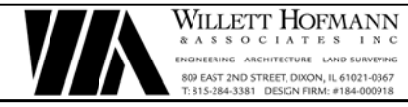
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h5(E)	14	#5	24'-0"	—
p1(E)	8	#7	24'-0"	—
s1(E)	25	#4	7'-1"	□
s3(E)	25	#4	21'-11"	□
u1(E)	20	#5	8'-2"	U
v5(E)	29	#5	8'-2"	—
v6(E)	27	#5	9'-2"	—
Concrete Structures			Cu. Yd.	25.9
Reinforcement Bars, Epoxy Coated			Pound	1,900

**NOTE:**

For existing pier plans, See structural sheet 20 of 21.

FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawings\1319015\_Pier\_2\_Details.dgn



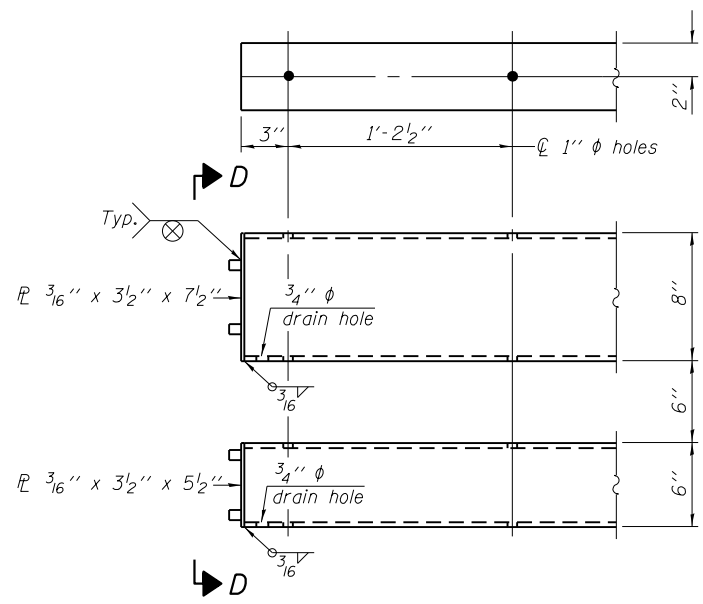
DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**PIER #2 DETAILS**  
**STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 12 OF 21 SHEETS

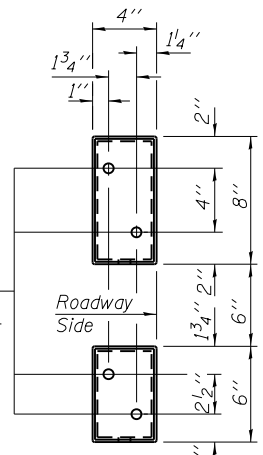
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	23
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT			BHOS-0085(058)	



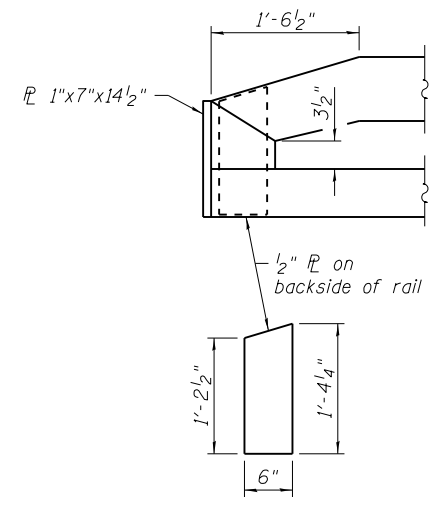


**APPROACH END OF RAIL DETAILS**  
Typical, Southwest and Northeast quadrants

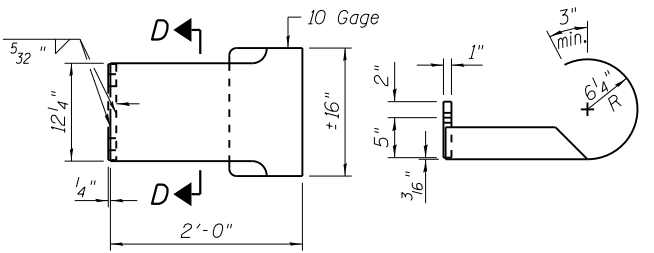
Use  $\frac{5}{8}$ " reduced base welded studs. Provide  $4-\frac{5}{8}$ " washers and self-locking nuts or nuts and jam nuts for guardrail connection shown on Std. 631032.



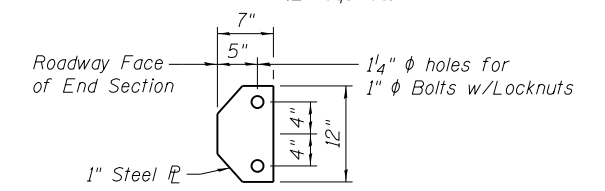
**VIEW D-D**



**DEPARTURE END OF RAIL DETAILS**  
Typical, Southeast and Northwest quadrants



**CURLED END SECTION DETAILS**  
\*\*\* (2 required)



**SECTION D-D**

**NOTES:**  
\*\*\*See Structural Sheet 13 of 21.

FILE = S:\PROJECTS\2015\1319015\CH1\DESIGN\STRUCT\2D\Drawings\1319015\_SM\_Railing\_Details.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**STEEL RAILING, TYPE SM WITH HOT-MIX ASPHALT WEARING SURFACE**  
**STRUCTURE NO. 043-3024**

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	25
WHA# 1319015		CONTRACT NO. 85653		

STRUCTURAL SHEET NO. 14 OF 21 SHEETS

ILLINOIS FED. AID PROJECT BHOS-0085(058)



TEI-2

**TESTING ENGINEERS, INC.**

809 EAST SECOND ST.  
DIXON, ILLINOIS

LOG OF BORING NO. 1

PROJECT Millbrig Bridge - Section 79B-MFT JOB NO. 502  
 CLIENT Jo Daviess County Highway Department ORDER NO. \_\_\_\_\_  
 ARCHITECT-ENGINEER Willett, Hofmann & Associates, Inc.  
 LOCATION New Bridge over Galena River in SE 1/4, 28-29-1 E.  
Station 21+10 25' Rt. Centerline

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DISC	REC	N	γ	Qu	w%
655.5	Crushed stone surface	0.0 0.4								
	Dark brown and black SILT with trace sand, occasional pieces of gravel- strongly organic		1	SS	X		10		28.5	
			2	SS	X		6	1.4P	27.4	
648.0	Stiff black and brown SILTY CLAY with trace to some sand.	7.5	3	SS	X		16		18.1	
645.0	Stiff dark gray SILT	10.5	4	SS	X		12	1.9P	31.5	
643.5	Light brown SILTY CLAY with some sand and gravel	12.0	5	SS	X		11		12.9	
			6	SS	X		15		18.7	
637.2	Refusal - End of Boring	18.3	7	SS	X		60/3"		14.9	

Drilled By DDD Checked RNL  
 Inspector \_\_\_\_\_  
 Boring Started 7-15-69  
 Boring Completed 7-15-69  
 Sheet 1 of 1 Sheets



**WATER LEVELS**  
 While Drilling 639.5  
 On Completion Backfilled  
 After \_\_\_\_\_ Hours  
 After \_\_\_\_\_ Hours

TEI-2

**TESTING ENGINEERS, INC.**

809 EAST SECOND ST.  
DIXON, ILLINOIS

LOG OF BORING NO. 2

PROJECT Millbrig Bridge - Section 79B-MFT JOB NO. 502  
 CLIENT Jo Daviess County Highway Department ORDER NO. \_\_\_\_\_  
 ARCHITECT-ENGINEER Willett, Hofmann & Associates, Inc.  
 LOCATION New Bridge over Galena River in SE 1/4, 28-29-1 E.  
Station 20+90 25' Rt. Centerline

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DISC	REC	N	γ	Qu	w%
655.4	Crushed stone surface	0.0 0.5								
	Dark brown and black SILTY CLAY and CLAYEY SILT occasionally mixed with sand and gravel		1	A	X					
			2	A	X					
645.4	Light brown SILTY CLAY with some sand and gravel	10.0	3	A	X					
639.4	Refusal - End of Boring	16.0								

Drilled By DDD Checked RNL  
 Inspector \_\_\_\_\_  
 Boring Started 7-15-69  
 Boring Completed 7-15-69  
 Sheet 1 of 1 Sheets



**WATER LEVELS**  
 While Drilling None  
 On Completion Backfilled  
 After \_\_\_\_\_ Hours  
 After \_\_\_\_\_ Hours

TEI-2

**TESTING ENGINEERS, INC.**

809 EAST SECOND ST.  
DIXON, ILLINOIS

LOG OF BORING NO. 3

PROJECT Millbrig Bridge - Section 79B-MFT JOB NO. 502  
 CLIENT Jo Daviess County Highway Department ORDER NO. \_\_\_\_\_  
 ARCHITECT-ENGINEER Willett, Hofmann & Associates, Inc.  
 LOCATION New Bridge over Galena River in SE 1/4, 28-29-1 E.  
Station 23+00 40' Rt. Centerline

ELEV.	SOIL DESCRIPTION	DEPTH	SAMPLE NO.	TYPE	DISC	REC	N	γ	Qu	w%
651.9	Black CLAYEY SILT with occasional gravel	0.0								
649.4	Stiff dark brown SILTY CLAY	2.5	1	SS	X		6			
644.9	Medium dark brown SANDY SILT with some clay	7.0	2	SS	X		6	1.3P	26.7	
			3	SS	X		5	0.81	25.5	
639.9	Medium light gray-brown SILTY SAND with some fine to coarse gravel	12.0	4	SS	X		4			
634.9	Dense light brown CLAYEY GRAVEL	17.0	5	SS	X		15			
629.9	Soft gray CLAYEY SILT with some gravel	22.0	6	SS	X		65		10.5	
			7	SS	X		7	0.43	20.7	
622.9	Note 1	29.0								
620.4	End of Boring	31.5	9	HX	X					
	Note 1 Hard chocolate brown LIMESTONE (Platville) Dense, fine-grained - occasionally shaley.									

Drilled By RHB Checked RNL  
 Inspector \_\_\_\_\_  
 Boring Started 7-16-69  
 Boring Completed 7-16-69  
 Sheet 1 of 1 Sheets



**WATER LEVELS**  
 While Drilling 639.4  
 On Completion Backfilled  
 After \_\_\_\_\_ Hours  
 After \_\_\_\_\_ Hours

FILE : S:\PROJECTS\2015\1319015\JCH\DESIGN\STRUCT\2D\Drawings\1319015.Boring\_Logs.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**BORING LOGS**  
**STRUCTURE NO. 043-3024**  
 STRUCTURAL SHEET NO. 15 OF 21 SHEETS

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	26
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT		BHOS-0085(058)		

**BENCH MARK:** R. 2. Spk. in 36" Oak Elder  
150' Rt. 19165 Elev. 658.40

**EXISTING BRIDGE:** Steel truss 117' face to face abuts, timber deck, stone abuts. Bridge washed out June 28, 1969.

SECTION 79-B-MFT	ROUTE NO. C. H. NO. 1	SHEET 8 OF 16
COUNTY JODAVIESS		ROAD DISTRICT

**GENERAL NOTES**

THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED BY THE DEPARTMENT OF PUBLIC WORKS AND BUILDINGS AUGUST 1, 1968, SHALL APPLY.

ALL REINFORCEMENT BARS SHALL BE LAPPED 24 DIAMETERS UNLESS OTHERWISE SHOWN.

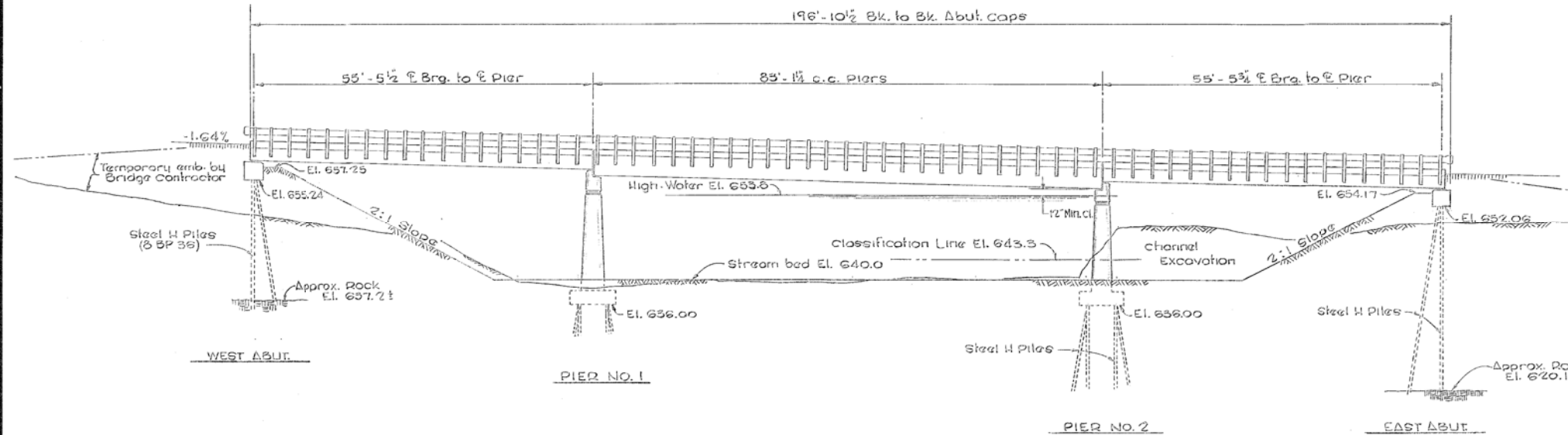
ALL REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE DEPARTMENT AS SHOWN ON THE INDEX OF SHEETS IN THE PLANS.

THE CONTRACTOR SHALL DRIVE ONE TEST PILE STEEL 8 HP36 AT EACH ABUTMENT AND PIER IN A PERMANENT LOCATION AS DIRECTED BY THE ENGINEER, BEFORE ORDERING THE REMAINDER OF THE PILING.

THE EXPOSED SURFACES OF THE EXPANSION GUARD SHALL BE GIVEN TWO SHOP COATS OF RED LEAD PAINT. THE CONTACT SURFACES SHALL BE GIVEN ONE COAT OF RED LEAD PAINT. ANCHOR STUDS SHALL NOT BE PAINTED.

EXPANSION GUARDS WHICH ARE NOT CAST IN THE PRECAST UNIT SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 503.08 (c) OF THE STANDARD SPECIFICATIONS AND ARE INCLUDED IN QUANTITY OF STRUCTURAL STEEL

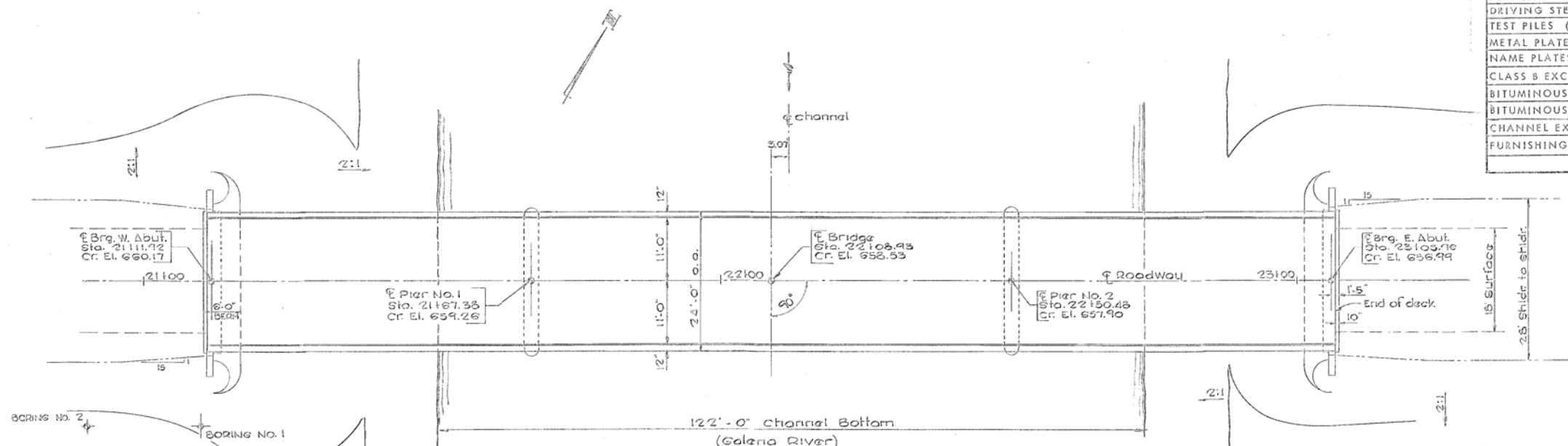
THE CHANNEL SHALL BE CLEANED OUT FOR A DISTANCE OF 50' LEFT AND RIGHT OF CENTERLINE ROADWAY AS SHOWN ON SHEET 2. MATERIAL RESULTING FROM THIS EXCAVATION SHALL BE USED TO CONSTRUCT THE EMBANKMENT CONES AT EACH END OF THE BRIDGE. THE COST OF THIS WORK WILL BE PAID FOR PER CU. YD. OF CHANNEL EXCAVATION.



**SUMMARY OF QUANTITIES**

ITEM	UNIT	SUB	SUPER	TOTAL
REMOVAL OF EXISTING SUB-STRUCTURES	EACH			1
CLASS X CONCRETE	CU. YD.	157.5	12.4	169.9
REINFORCEMENT BARS	POUND	7790	540	8330
PRECAST PRESTRESSED CONC. DECK BEAMS - 21"	SQ. FT.		2688	2688
PRECAST PRESTRESSED CONC. DECK BEAMS - 33"	SQ. FT.		1992	1992
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND		120	120
FURNISHING STEEL PILES	LIN. FT.	494		494
DRIVING STEEL PILES	LIN. FT.	494		494
TEST PILES (STEEL)	EACH	4		4
METAL PLATE BRIDGE RAIL	LIN. FT.		388	388
NAME PLATES	EACH		1	1
CLASS B EXCAVATION FOR STRUCTURES	CU. YD.	90		90
BITUMINOUS CONC. SURF. COURSE, CLASS I	TON		40	40
BITUMINOUS MATERIALS (PRIME COAT)	GAL.		48	48
CHANNEL EXCAVATION	CU. YD.			1080
FURNISHING & ERECTING R.O.W. MARKERS	EACH			8

**ELEVATION**



**PLAN VIEW**

**WATERWAY DATA:**

DRAINAGE AREA: 98,240 Acres  
CHARACTER: Hilly, Wooded, Pasture  
EXIST. OPENING: 1550 Sq. Ft.  
REQD. OPENING: 2000 Sq. Ft. (15 Yr.)  
PROP. OPENING: 2000 Sq. Ft.

**FOR INFORMATION ONLY**

STATION 22+08.93  
GALENA RIVER  
BUILT 1969 BY  
JODAVIESS COUNTY  
SECTION 79-B-MFT  
LOADING HS 15

NAME PLATE LETTERING  
ILL. STD. 2113

**DESIGN STRESSES**

**PRECAST UNITS**  
f<sub>c</sub> = 5,000 psi  
f<sub>ci</sub> = 4,000 psi  
f<sub>s</sub> = 248,000 psi  
f<sub>s1</sub> = 173,400 psi

**FIELD UNITS**  
f<sub>c</sub> = 3,500 psi  
f<sub>c</sub> = 1,400 psi  
f<sub>s</sub> = 20,000 psi (Rainf.)  
n = 10

LOADING HS 15-44

**GENERAL PLAN & ELEVATION  
SECTION 79-B-MFT  
JODAVIESS COUNTY**

CLELAND H. HICKMAN - CO. SUPT. HIGHWAYS

DESIGN BY:  
B. THOMPSON  
DATE Sept. 1969  
DRAWN BY:  
R. HODGSON  
DATE Sept. 1969  
CHECKED BY:  
D. E. HUFFMAN  
DATE Sept. 1969  
APPROVED BY:  
DATE

PREPARED BY  
**WILLETT, HOFMANN  
& ASSOCIATES INC.**  
CONSULTING ENGINEERS  
DIXON, ILLINOIS



FILE NO. SHEET NO. OF SHEETS



DESIGNED - IPN  
CHECKED - MAC  
DRAWN - FDL  
CHECKED - EEL

REVISED -  
REVISED -  
REVISED -  
REVISED -

**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22 + 08.93**

**EXISTING PLANS  
STRUCTURE NO. 043-3024**  
STRUCTURAL SHEET NO. 16 OF 21 SHEETS

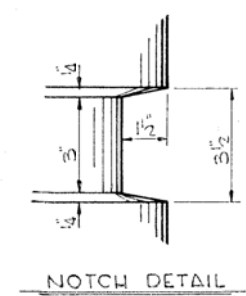
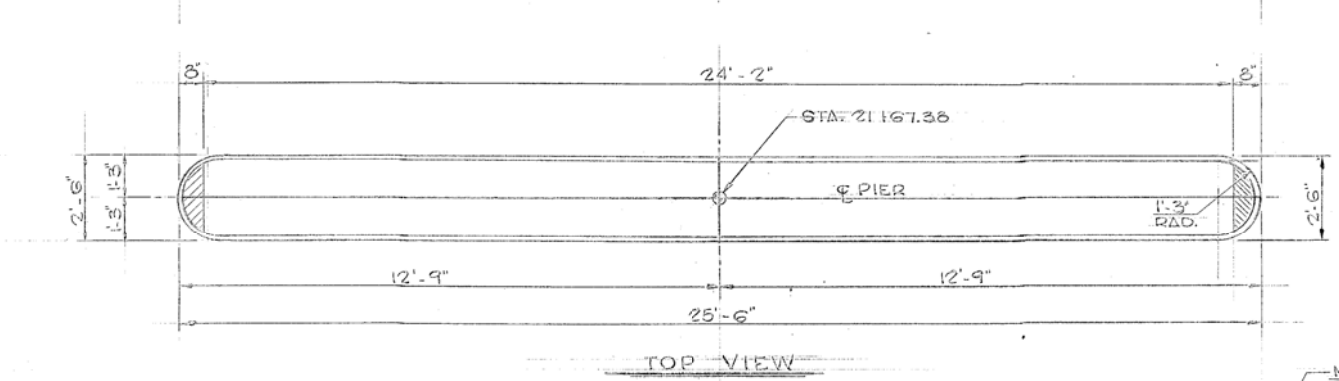
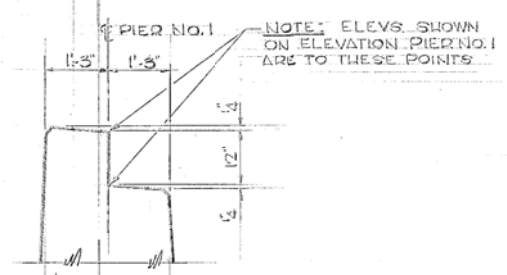
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	27
WHA# 1319015		CONTRACT NO. 85653		

ILLINOIS FED. AID PROJECT BHOS-0085(058)

FILE = S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawings\1319015\_Existing\_Plans.dgn

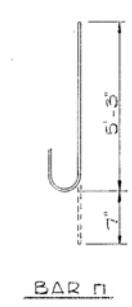
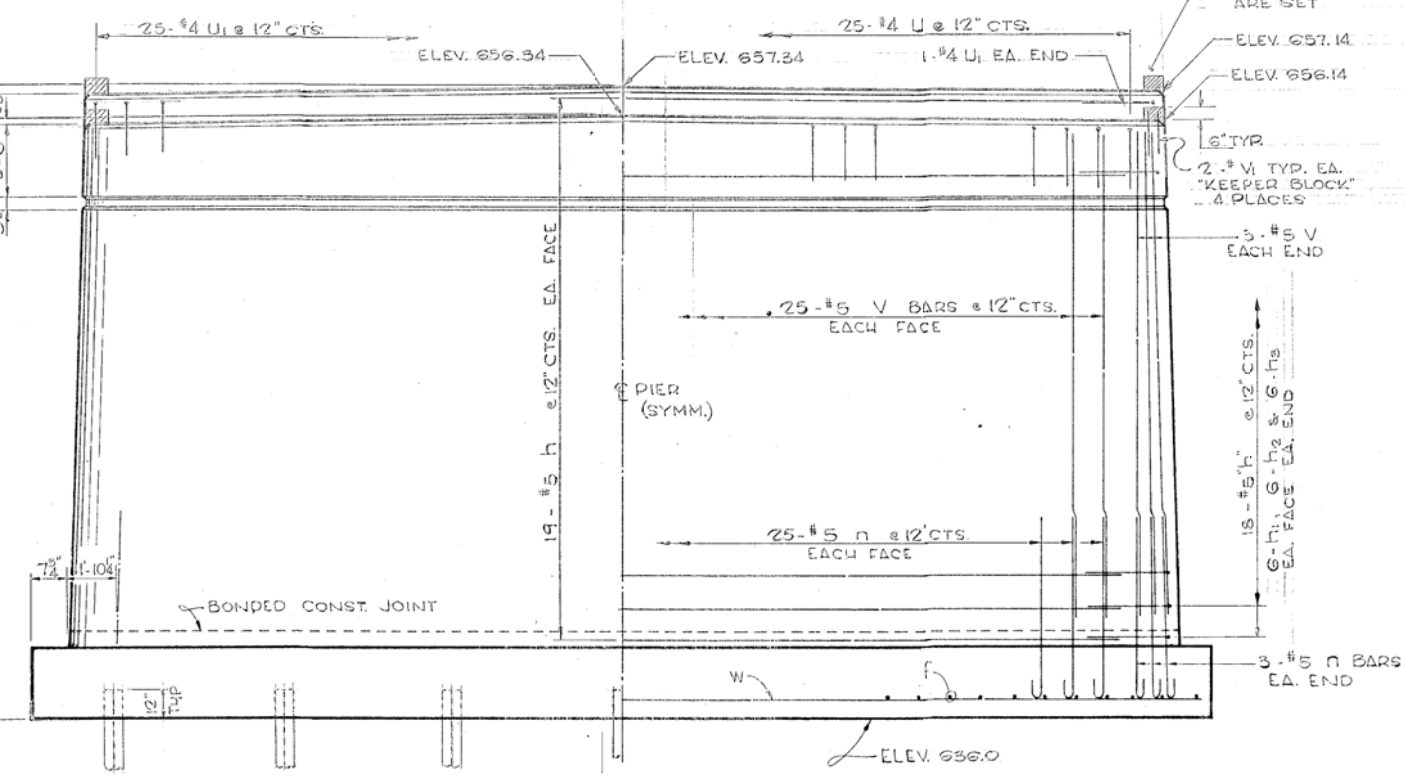
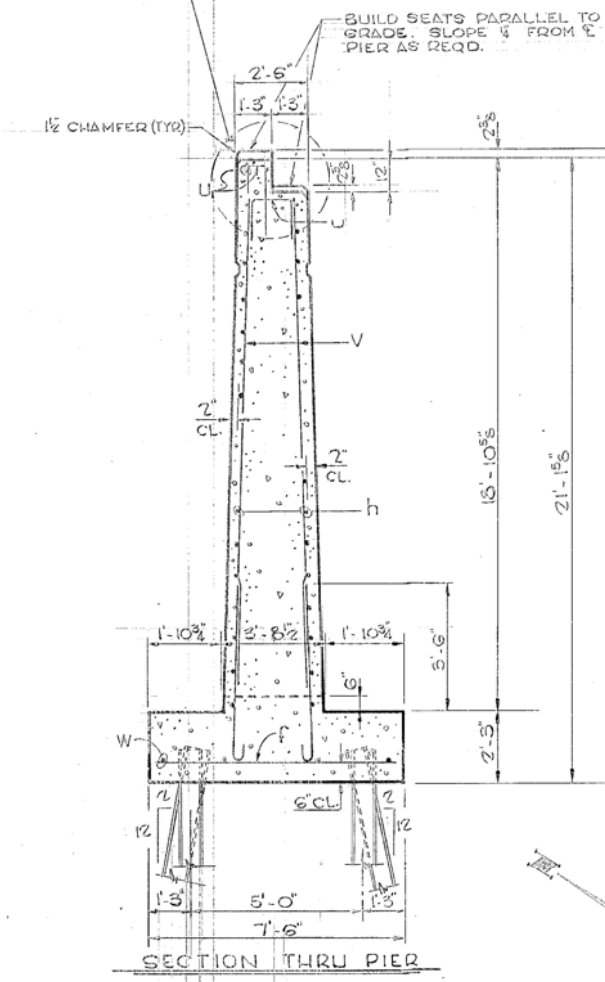




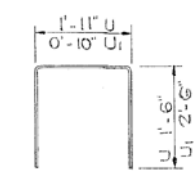


BAR	R	A
h <sub>1</sub>	1'-7 1/2"	3'-10"
h <sub>2</sub>	1'-5"	3'-4"
h <sub>3</sub>	1'-2 1/2"	2'-10"

DETAIL "h" BARS



BAR n



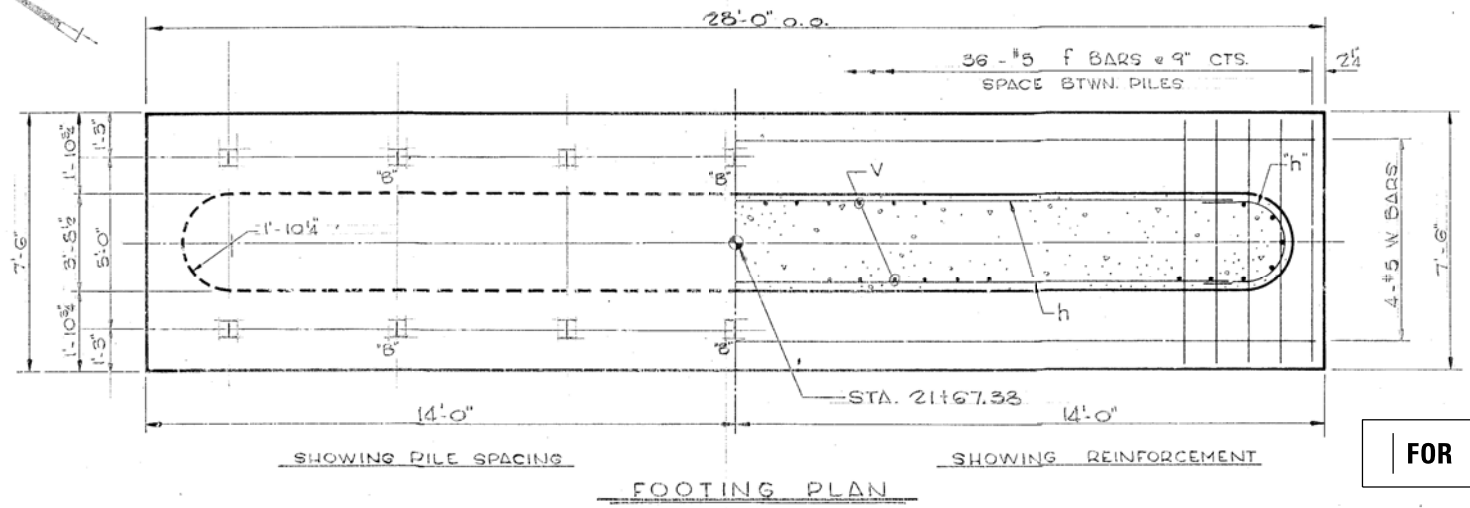
BARS U & U1

BILL OF MATERIAL - PIER 1

BAR	NO.	SIZE	LENGTH	SHAPE
f	36	#5	7'-2"	—
h	38	#5	23'-0"	—
h <sub>1</sub>	24	#5	3'-10"	—
h <sub>2</sub>	24	#5	3'-4"	—
h <sub>3</sub>	24	#5	2'-10"	—
n	56	#5	5'-10"	—
U	25	#4	4'-11"	□
U <sub>1</sub>	27	#4	5'-10"	□
V	56	#5	17'-2"	—
V <sub>1</sub>	3	#4	1'-4"	—
W	4	#5	27'-3"	—

CLASS X CONCRETE CU. YD. 71.8  
 REINFORCEMENT BARS LBS. 3080  
 BUR. STEEL PILE (2BP36) L.F. 104  
 DRIVING STEEL PILES L.F. 104  
 TEST PILE (STEEL) EA. 1  
 CL. & EXCAV. FOR STRUCT. CY. 45

PILE DATA:  
 TYPE: STEEL (2BP36)  
 NO. REQD.: 1311 TEST PILE  
 EST. LENGTH: 8 FT.  
 MIN. CAPACITY: DRIVE TO REFUSAL



FOR INFORMATION ONLY

PIER NO. 1  
 SECTION 79-B-MFT  
 CO. HIGHWAY NO. 1  
 JODAVIESS COUNTY

FILE: S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\Drawings\1319015\_Existing\_Plans.dgn



DESIGNED - IPN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - FDL	REVISED -
CHECKED - EEL	REVISED -

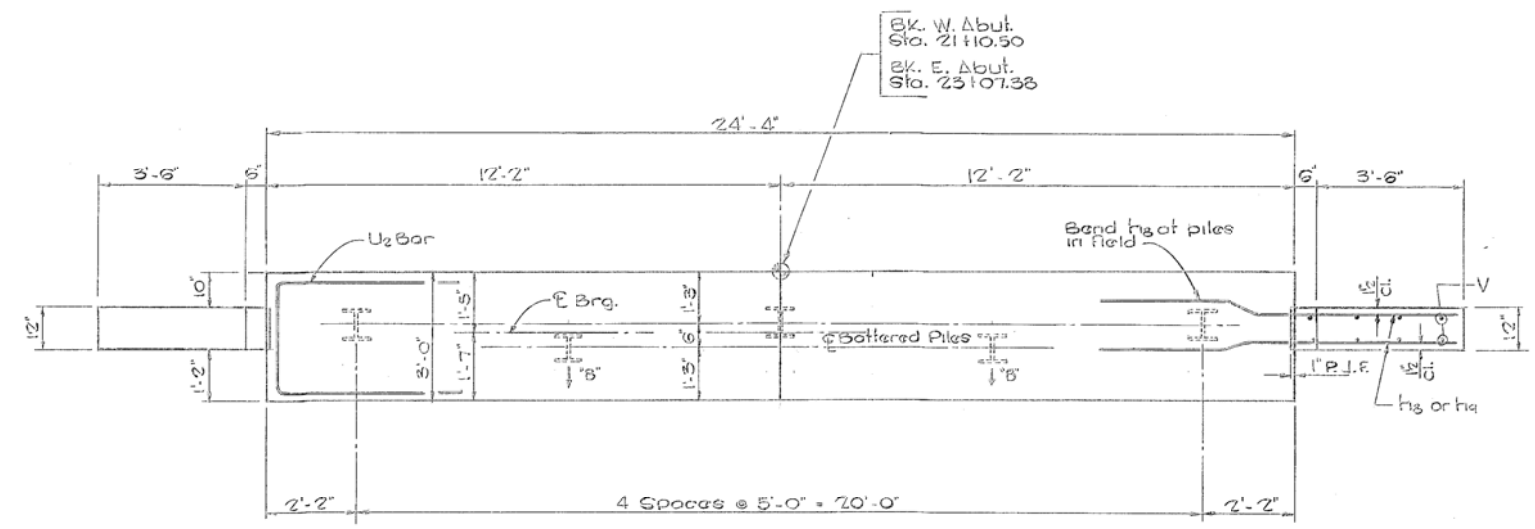
JO DAVIESS COUNTY  
 CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
 STATION 22 + 08.93

EXISTING PLANS  
 STRUCTURE NO. 043-3024  
 STRUCTURAL SHEET NO. 19 OF 21 SHEETS

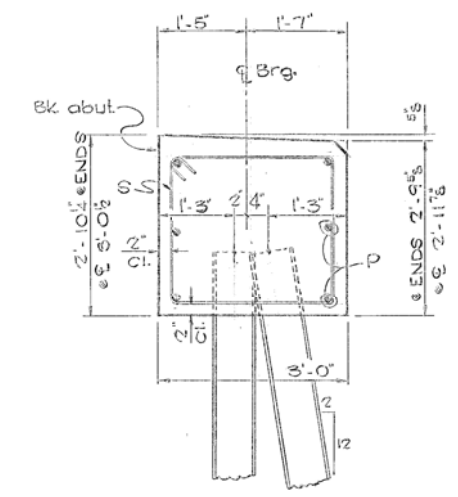
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	30
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT BH05-0085(058)				



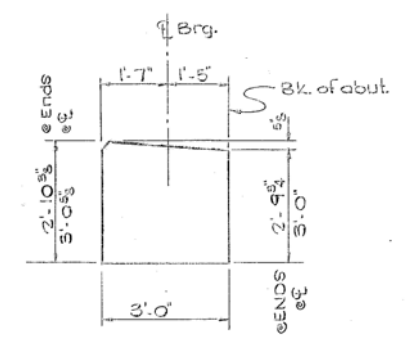




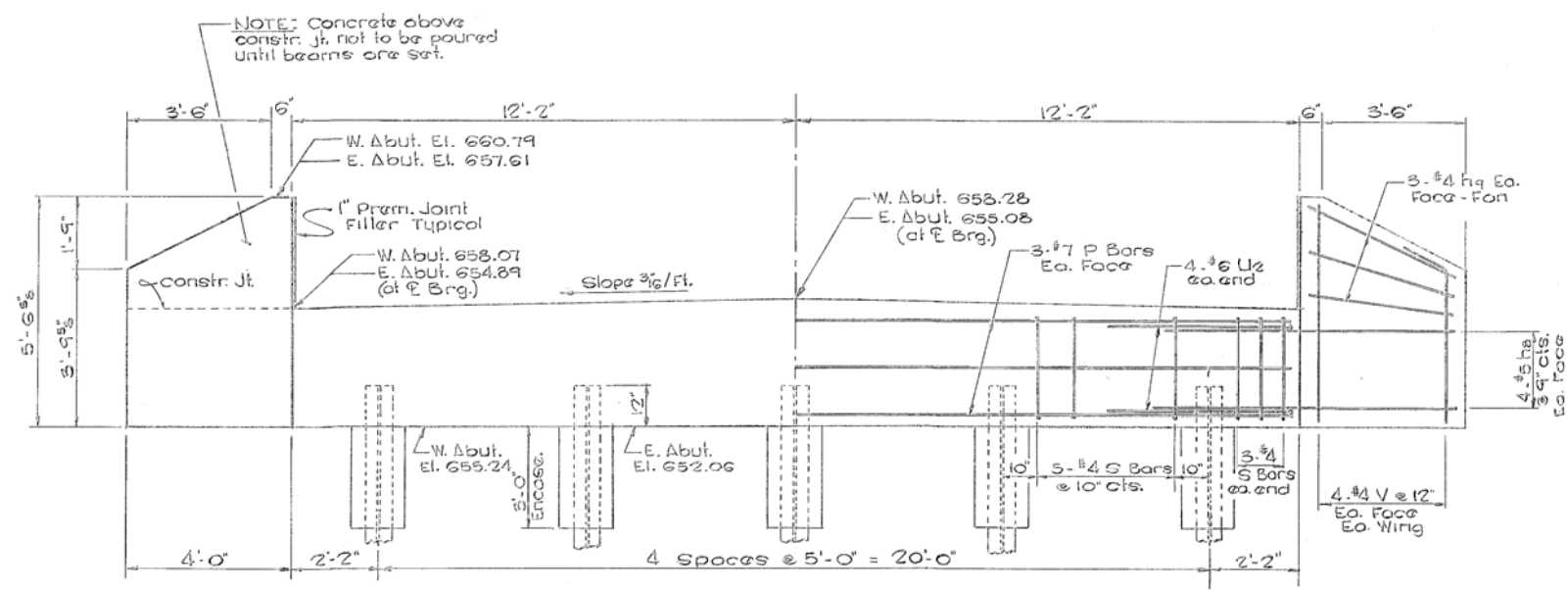
ABUTMENT PLAN



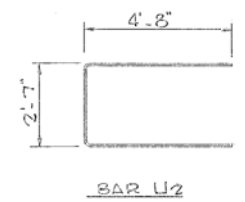
SECTION THRU CAP  
(WEST ABUTMENT)



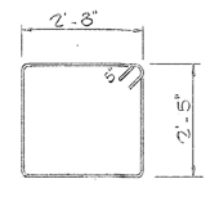
SECTION THRU E. ABUT  
Reinforcement and pile  
spacing same as W. Abut.



ELEVATION



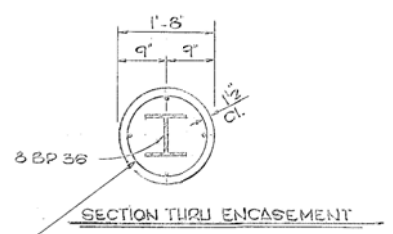
BAR U2



BAR S

BILL OF MATERIAL 2 Abuts.

Bar	No.	Size	Length	Shape	
h <sub>3</sub>	32	#5	8'-6"	—	
h <sub>4</sub>	24	#4	3'-9"	—	
P	12	#7	24'-0"	—	
S	52	#4	11'-0"	□	
U <sub>2</sub>	16	#6	11'-11"	□	
V	32	#4	5'-3"	—	
Class X Concrete				Cu. Yd.	18.6
Reinforcement Bars				Lbs.	1710
Fur. Steel H Piles (8 BP 36)				L.F.	208
Driving Steel Piles				L.F.	208
Test Pile (Steel)				Eq.	2



SECTION THRU ENCASUREMENT

Welded wire fabric 6" x 6" mesh  
#4 wires - Wt. 58 1/2 lb. per sq. ft. plus 4 #4  
h<sub>2</sub> bars. The cost of Class X Conc. Encase-  
ment & reinforcement is incidental to the  
cost of furnishing piles.

**PILE DATA:**  
**WEST ABUT:**  
TYPE: Steel H (8BP 36)  
NO. REQD.: 4 Plus 1  
Test Pile  
EST. LENGTH: 19 Ft.  
MIN. CAPACITY: Drive to refusal

**EAST ABUT:**  
Steel H (8BP 36)  
4 1/2 Test Pile  
33 Ft.  
Drive to refusal

FOR INFORMATION ONLY

ABUTMENT DETAILS  
SECTION 79-B-MFT  
CO. HIGHWAY NO. 1  
JODAVIESS COUNTY

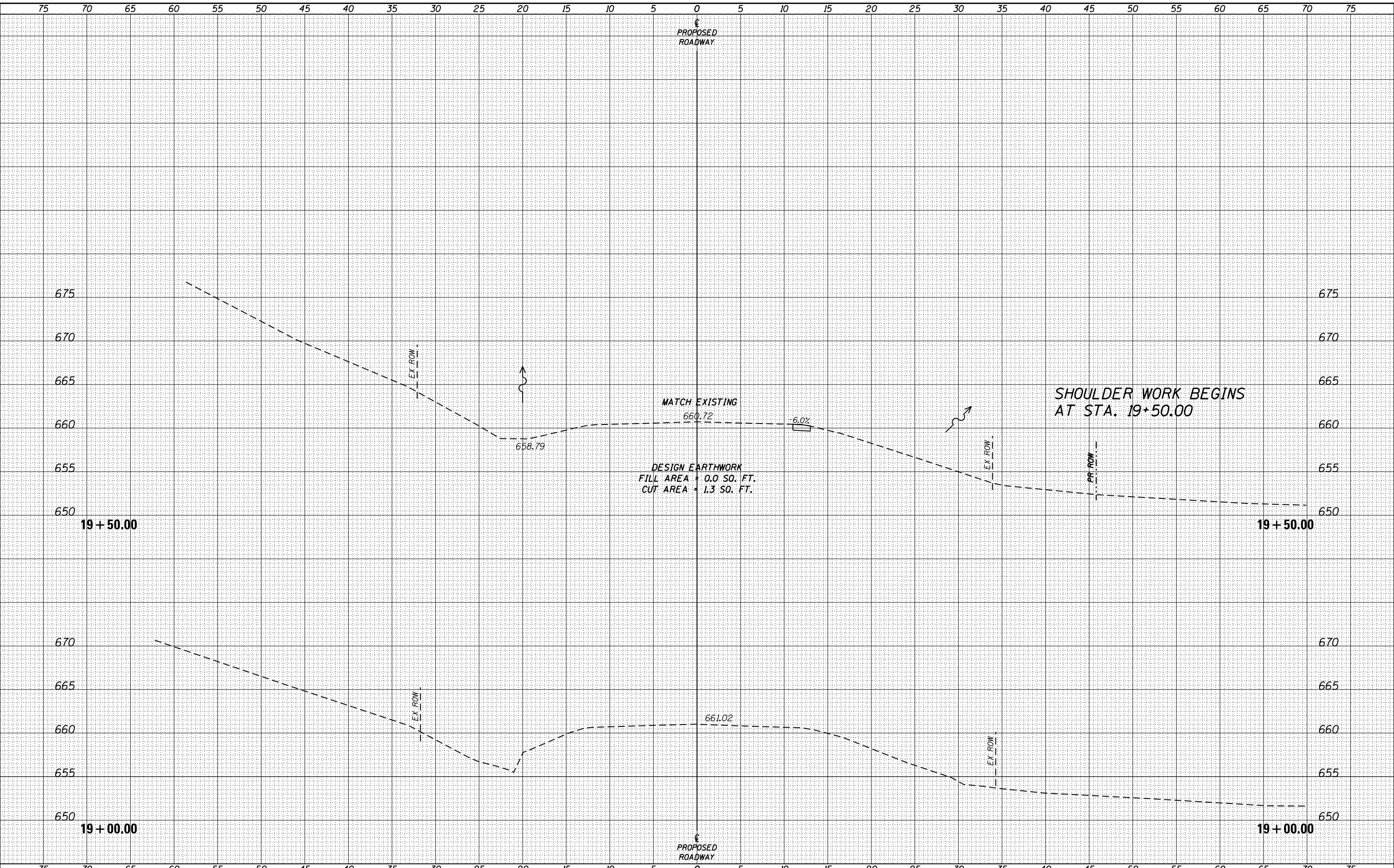
FILE : S:\PROJECTS\2015\1319015\_ARCH\DESIGN\STRUCT\2D\_Drawing\1319015\_Existing\_Plans.dgn



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE : S:\PROJECTS\2015\1319015\_JCH\DESIGN\STRUCT\2D\Drawings\1319015\_Cross Sections.dgn



DESIGNED - DAN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - EEL	REVISED -
CHECKED - PLP	REVISED -

**JO DAVIESS COUNTY  
CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER  
STATION 22 + 08.93**

**CROSS SECTIONS**

SCALE: 1" = 5'-0"    SHEET NO. 1 OF 6 SHEETS    STA. 19+00.00 TO STA. 19+50.00

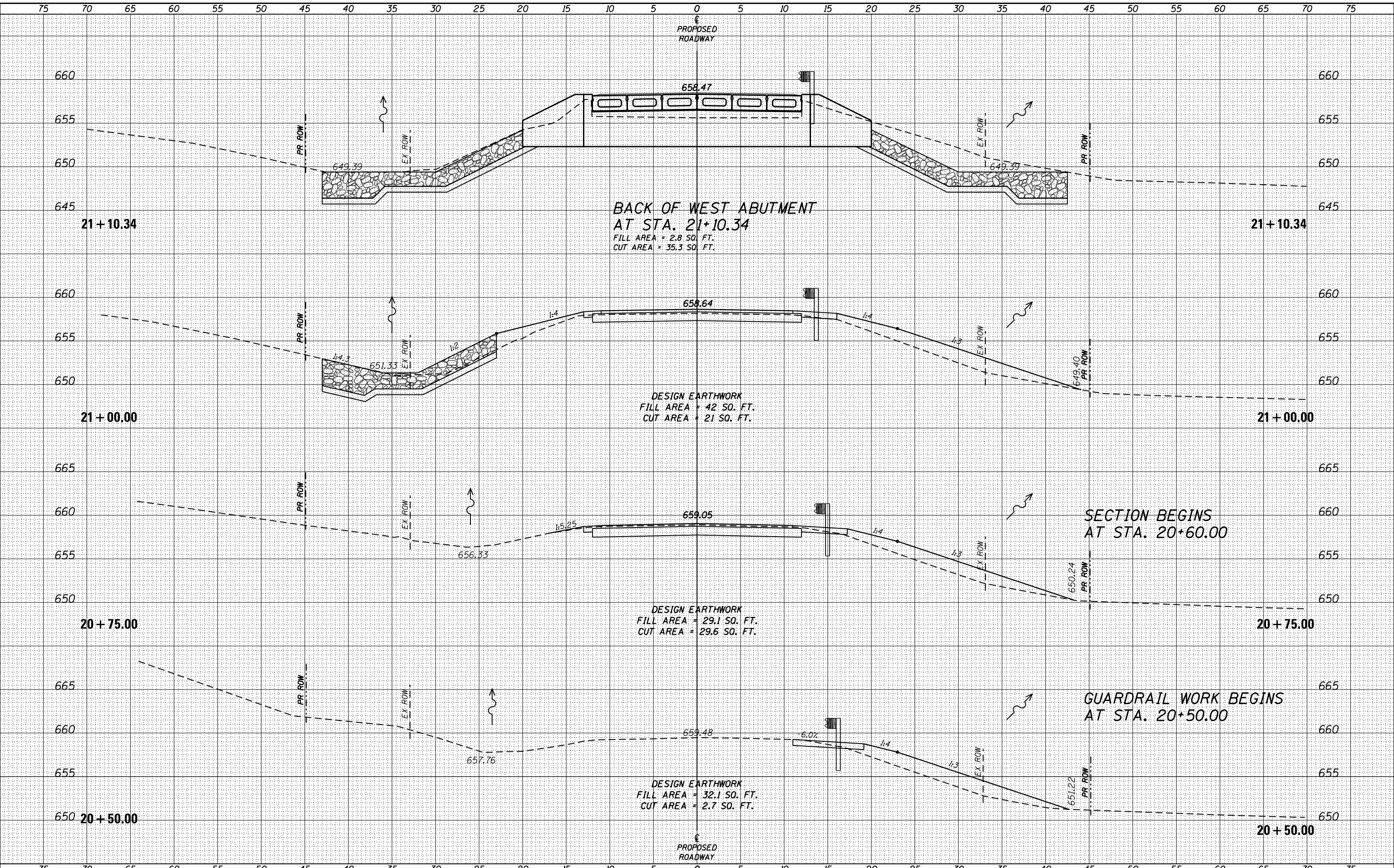
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	33
WHA# 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT BH05-0085(053)				



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

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

FILE : S:\PROJECTS\2015\1319015\_JCH\DESIGN\STRUCT\20-Dwg\1319015-Cross Sections.dwg



**WILLET HOFMANN & ASSOCIATES INC.**  
 ENGINEERING ARCHITECTURE LAND SURVEYING  
 809 EAST 2ND STREET, DIXON, IL 61021-0367  
 T: 815-284-3381 DESIGN FIRM: #184-000918

DESIGNED - DAN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - EEL	REVISED -
CHECKED - MAC	REVISED -

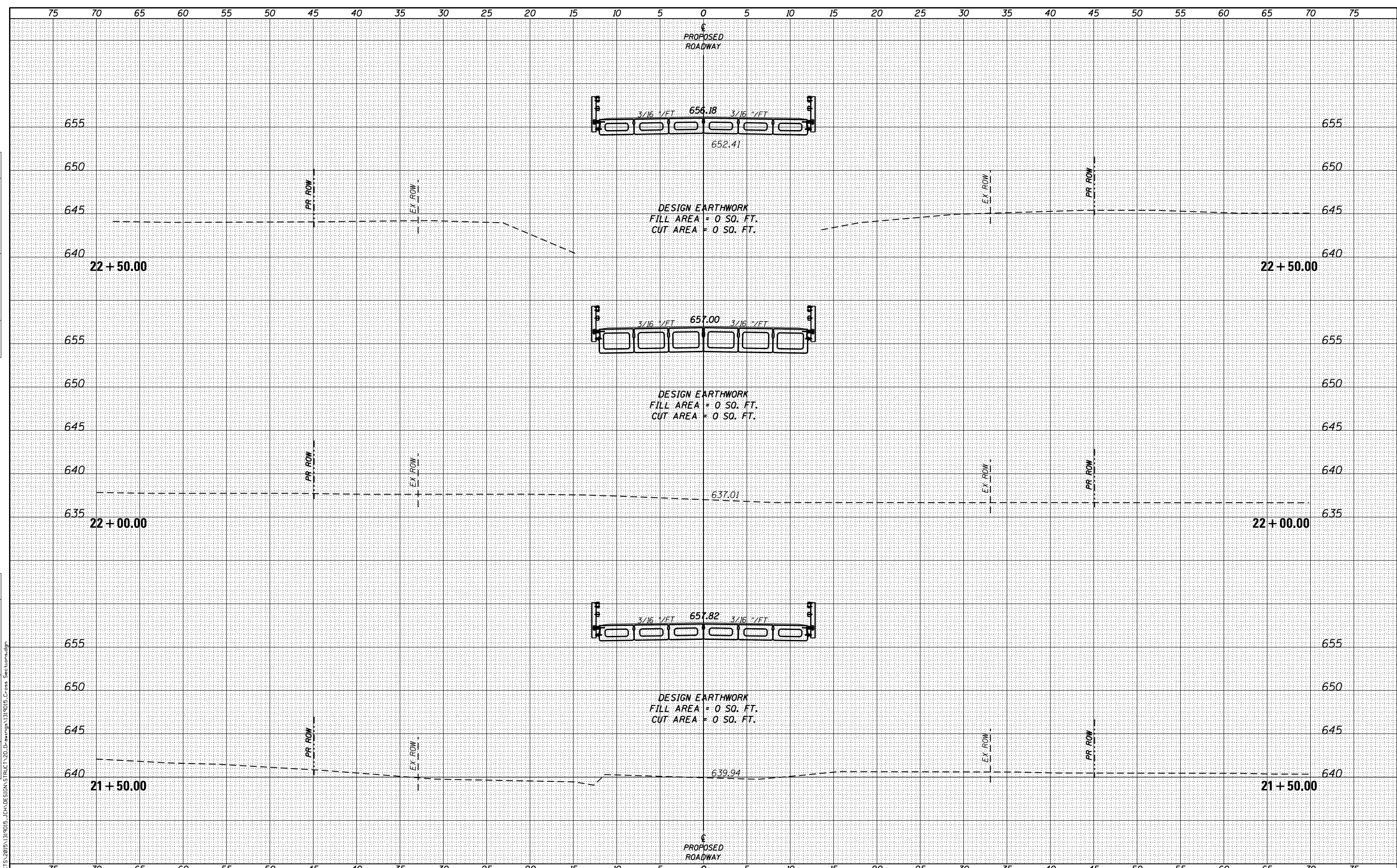
**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**CROSS SECTIONS**  
 SCALE: 1" = 5'-0"  
 SHEET NO. 3 OF 6 SHEETS  
 STA. 20+50.00 TO STA. 21+10.34

CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	35
WHA* 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT BHOS-0085(053)				

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

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



FILE : S:\PROJECTS\2015\1319015\_JCH\DESIGN\PROJECT\2D\_Drawing\1319015\_Cross\_Sections.dgn

**WILLET HOFMANN & ASSOCIATES INC.**  
ENGINEERING ARCHITECTURE LAND SURVEYING  
809 EAST 2ND STREET, DIXON, IL 61021-0367  
T: 815-284-3381 DESIGN FIRM: #184-0009'8

DESIGNED - DAN	REVISED -
CHECKED - MAC	REVISED -
DRAWN - EEL	REVISED -
CHECKED - MAC	REVISED -

**JO DAVIESS COUNTY**  
**CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER**  
**STATION 22 + 08.93**

**CROSS SECTIONS**

SCALE: 1" = 5'-0" SHEET NO. 4 OF 6 SHEETS STA. 21+50.00 TO STA. 22+50.00

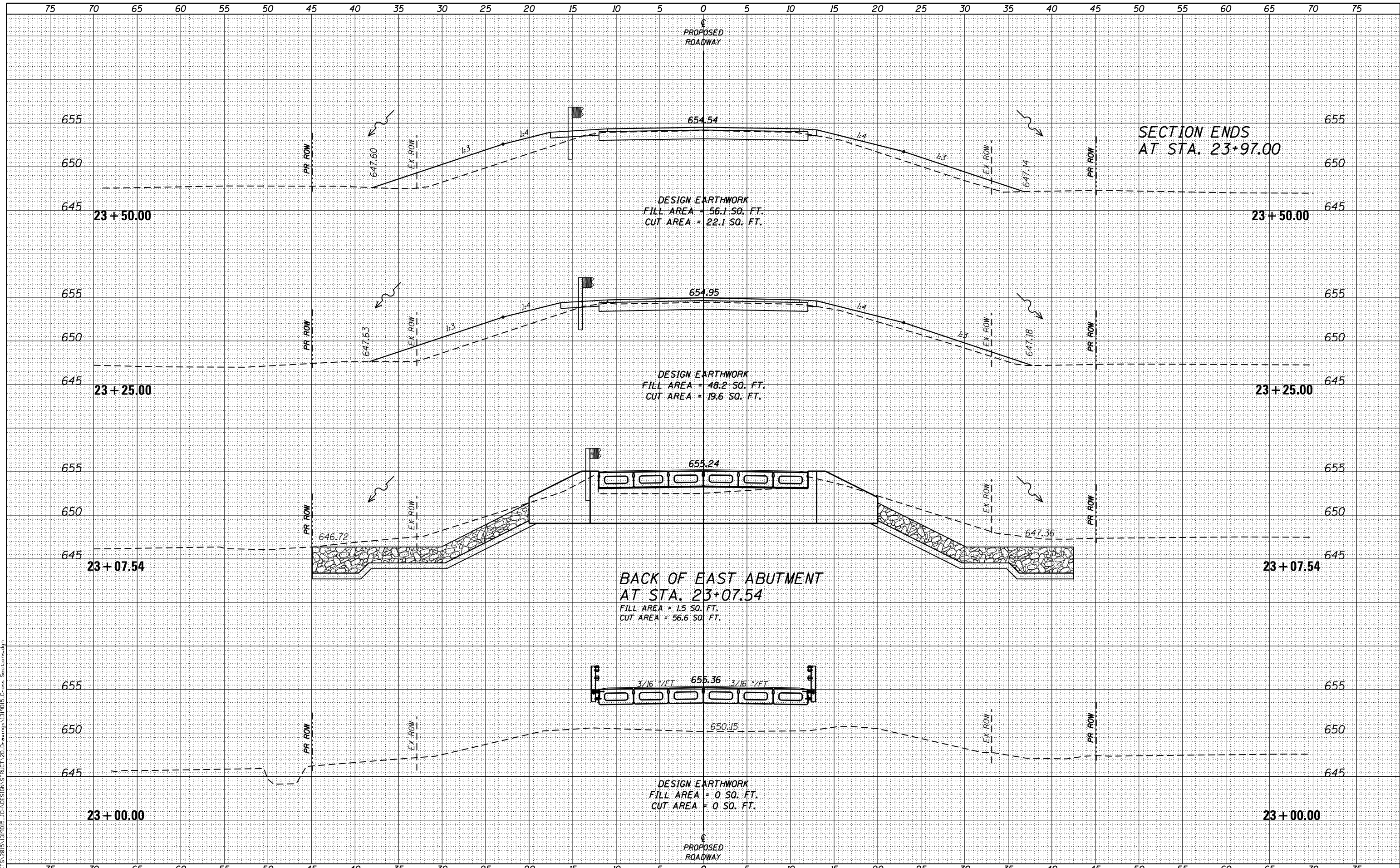
CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1	15-00151-00-BR	JO DAVIESS	38	36
WHA* 1319015		CONTRACT NO. 85653		
ILLINOIS FED. AID PROJECT BH05-0085(053)				



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

FILE : S:\PROJECTS\2015\1319015\_JCH\DESIGN\STRUCT\2D\Drawings\1319015\_Cross Sections.dgn

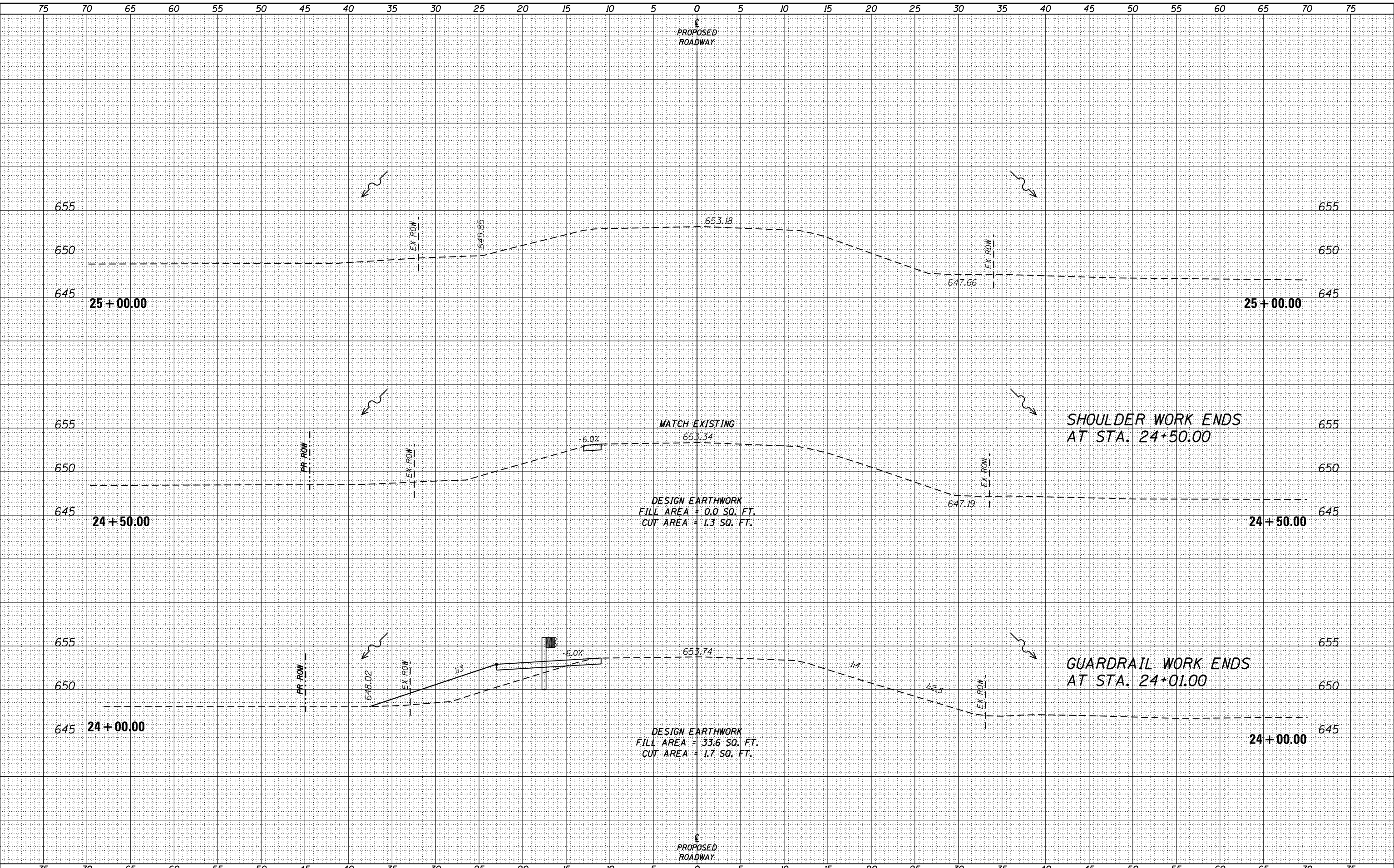


<p>WILLET HOFMANN &amp; ASSOCIATES INC        ENGINEERING ARCHITECTURE LAND SURVEYING        809 EAST 2ND STREET, DIXON, IL 61021-0367        T: 815-284-3381 DESIGN FIRM: #184-000918</p>	DESIGNED - DAN CHECKED - MAC DRAWN - EEL CHECKED - MAC	REVISED - REVISED - REVISED - REVISED -	<p align="center"><b>JO DAVIESS COUNTY</b>  <b>CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER</b>  <b>STATION 22 + 08.93</b></p>	<p align="center"><b>CROSS SECTIONS</b></p>	<table border="1"> <tr> <th>CH</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>1</td> <td>15-00151-00-BR</td> <td>JO DAVIESS</td> <td>38</td> <td>37</td> </tr> <tr> <td colspan="2">WHA* 1319015</td> <td colspan="3">CONTRACT NO. 85653</td> </tr> </table>	CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	1	15-00151-00-BR	JO DAVIESS	38	37	WHA* 1319015		CONTRACT NO. 85653		
	CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.															
1	15-00151-00-BR	JO DAVIESS	38	37																
WHA* 1319015		CONTRACT NO. 85653																		
SCALE: 1" = 5'-0"    SHEET NO. 5 OF 6 SHEETS    STA. 23+00.00 TO STA. 23+50.00		ILLINOIS FED. AID PROJECT BHOS-0085(053)																		

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

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

FILE : S:\PROJECTS\2015\1319015\_JCH\DESIGN\STRUCT\2D\Drawings\1319015\_Cross Sections.dgn



<p>WILLET HOFMANN &amp; ASSOCIATES INC ENGINEERING ARCHITECTURE LAND SURVEYING 809 EAST 2ND STREET, DIXON, IL 61021-0367 T: 815-284-3381 DESIGN FIRM: #184-000918</p>	DESIGNED - DAN	REVISED -	<p><b>JO DAVIESS COUNTY</b> <b>CH 1 (W COUNCIL HILL RD) OVER GALENA RIVER</b> <b>STATION 22 + 08.93</b></p>	<b>CROSS SECTIONS</b>		CH	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CHECKED - MAC	REVISED -		1	15-00151-00-BR	JO DAVIESS	38	38		
DRAWN - EEL	REVISED -	WHA* 1319015		CONTRACT NO. 85653						
CHECKED - MAC	REVISED -	ILLINOIS FED. AID PROJECT BHOS-0085(053)								
			SCALE: 1" = 5'-0"	SHEET NO. 6 OF 6 SHEETS	STA. 24+00.00 TO STA. 25+00.00					