BENCHMARK: TOP NORTH BOLT ON RIM OF FIRE HYDRANT AT SOUTHEAST CORNER OF WASHINGTON & MONFOE STREETS EXISTING STRUCTURE: Structure No. 043-0028; BUILT 1934 AS THREE SPANS, CONCRETE ARCHES WITH SPANDRELS 213'-1/2" BK./BK. ABUTMENTS SUPPORTING CONCRETE DECK. SUBSTRUCTURE CONSISTS OF CONCRETE PIERS AND CLOSED CONCRETE ABUTMENTS. ARCHES HAVE CLEAR SPAN OF GS O', TOTAL LOCATION OF LIGHT POLES TO BE INSTALLED BY OTHERS LENGTH OF STRUCTURE BACK TO BACK OF EXISTING ABUTMENTS IS 209'-6"; OUT TO OUT OF EXISTING DECK IS 39'-0". CONTRACTOR TO REMOVE AND DISPOSE OF EXISTING SUPERSTRUCTURE DECK AND H.W.E. 618.4 SPANDRELS TO TOP OF ARCHES AND PORTIONS OF EXISTING PIERS AND ABUTMENTS AS TELEV. 615.42 SHOWN IN DETAIL PLANS IN STACES ALL IN ACCORDANCE WITH SECTION SOI OF THE STANDARD SPECIFICATIONS, EXISTING LIGHT -- ELEV. 605.341 - FLEV 605.291 -ELEV. 605,83‡ - ELEV. 605-73! POCK STREAMBED STANDARDS TO BE SALVAGED BY CONTRACTOR AND STOCKPILED AT SITE AS DIRECTED BY ENGINEER FOR REINSTALLATION BY OTHERS. ELEY. 606.1 ELEVATION Apple Ri * LIGHT POLE BASE LOCATIONS -8 REQ'D (SEE SHEET 5) 213'-11/2" BK/BK. ABUTMENTS R. Z.E. ATH P.M. ---- & PER #1 - & PIER -2 BK. NO. ABUT. LOCATION SKETCH 71'-074" 71-034 \$ 5tructure 5ta 259+08.20 SHEET PILING STA. 257+88.12 TO STA. 258+01.45 SEE SHEET PILING STA, 260114.95 10 STA 260+28.28 SEE SHT 15 FOR DETAILS SHT 15 FOR DETAILS AFTR SLAS P.G.E. 630.00 -0.40% E PER#2 STA 259+4370 PROFILE *GR<u>ADE</u>* FG.E. 629.99 -SHOP (CHOPD (Top of Class I) BK. NO. ABUT. -4 PIERS EXIST STORM & FIEF *| SEWER TO STA. 258+7270 BK. 50 ABUT 4 STRUCTURE STA 259+08.20 STA. 258+01.64 + ARCHES STA 260114.76 P.G.E. 630.041 RG.E. 629.90 BE ABANDONED P.G.E. 630.01 EXIST SANITARY SEWER EXIST. STORM SEWER TO BE MAINTAINED Mullille EXIST. STORM SEWER PIPE FROM TO BE MAINTAINED 68:2/2 CTF./CTF. BRGS. 69:9"CTR/CTR. BRGS. 68'2/2" CTP./CTP. BRGS. 2-234 SPAN SPAN Z SPAN 3 شو:را^ت HOUSE EXISTING CONCRETE PETAINING WALL - REMOVE PORTIONS AS REQUIRED FOR CONSTRUCTION OF SOUTHWEST WINGWALL MODIFICATIONS. COST INCIDENTAL PLAN WATERWAY INFORMATION NOTE: ALL LONGITUDINAL DIMENSIONS AND STATIONING SHOWN ON HORIZONTAL CURVE DATA PLAN ARE MEASURED ALONG THE SHORT CHORD. PRAINAGE AREA = 246 SOMI. LOW GRADE ELEV. = 624.24 @ STA. 261+00 PL STATION 259+1670 Δ = 9° 46'-00" D = 1°-40'-00" Q OPENING SQ.PT. NAT. HEAD-FT. HEADWATER EL F = 3437.75' T = 293.71' C.R.S. EXIST. PROP. H.W.E. EXIST. PROP. EXIST. PROP - 586.00

STATION 259+08.20

APPLE RIVER BUILT 198

F. A. RTE. 18 SEC. 103 D BR

LOADING HS 20

F. A. PROJECT NO. 8HF-18(121)

STRUCT. NO. 043 -0028

NAME PLATE

(SEE STD. 2113)

GENERAL NOTES:

I. ALL STRUCTURAL STEEL SHALL BE SHOP PAINTED WITH TWO CDATS OF BASIC LEAD SIL'ICO CHROMATE PAINT.

ROUTE NO SECTION COUNTY TOTAL SHEET NO.

103-D- BR JO DAVIESS 27 SHEET I OF 15 SHEETS

- 2. EXPANSION GUARDS SHALL BE FABRICATED AND ERECTED IN ACCORDANCE WITH ARTICLE 503.07(C) OF THE STANDARD SPECIFICATIONS, AND ARE INCLUDED IN THE QUANTITY OF STRUCTURAL STEEL.
- 3. THE TOP SURFACE OF THE BEAMS SHALL BE FINISHED IN ACCORDANCE WITH ARTICLE 505.06 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE SURFACE SHALL NOT BE ROUGHENED BY BROOMING., THE FINISHED SURFACE SHALL BE FREE OF DEPRESSIONS OR HIGH SPDTS WITH SHARP CORNERS, AND THE TOP EOGE OF KEYS SHALL BE ROUNDED OR CHAMFERRED A MINIMUM OF 1/4".
- 4. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE BEEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NOMINAL CONSTRUCTION VARIATIONS. 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.
- 5. PROTECTIVE COAT SHALL NOT BE APPLIED TO SURFACES TO WHICH WATERPROOFING MEMBRANE SYSTEM
- REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF A.A.S.H.T.O. M-31 OR M-53 GRADE 60.
- 7. A CALCIUM NITRITE CORROSION INHIBITOR, AS COVERED IN THE SPECIAL PROVISIONS, SHALL BE USED IN THE CONCRETE FOR PRECAST PRESTRESSED CONCRETE DECK BEAMS
- B. EXPANSION BOLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4080 LBS. , AND 3/4" + x12" HOOKED BOLTS AS INDICATED ON PLANS (unless noted otherwise)
- DECK BEAMS & PIERS TO BE BUILT ON A & OFFSET 91/2" FROM A SHORT CHORD FROM CENTER TO CENTER OF ABUTMENT BEARINGS, WALKWAYS AND PARAPETS TO BE BUILT ON TRUE CURVE WITH THE & OF ROAD AS &

TOTAL BILL OF MATERIAL

:ITEM	UNIT	SUPER.	SUB.	TOTAL
CONCRETE REMOVAL	CU, YD.		96.0	96.0
REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1		1
PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ.FT.	8806		8806
CLASS X CONCRETE	CU.YD.	151.2	189,6	340.8
REINFORCEMENT BARS	LBS.	810	15,460	16,270
REINFORCEMENT BARS (EPOXY COATED)	LBS.	16,340		16,340_
TEMPORARY SLAB SUPPORT SYSTEM	EACH	1		1
NAME PLATES	EACH		_	1
PORTLAND CEMENT MORTAR FAIRING COURSE	LIN. FT.	2240		2240
WATERPROOFING MEMBRANE SYSTEM	SQ.YD.	.707	_	707
BITUMINOUS CONCRETE SURFACE COURSE(MIX D) CLASS I	TON	83.2	_	83,2
PROTECTIVE COAT	SQ.YD.	546		546
PREFORMED JOINT SEAL 2 1/2"	LIN. FT.	136		1.36
EXPANSION BOLTS 3/4" #	EACH		114	114
TEMPORARY BRIDGE RAILING	L'IN.FT.	258		258
TEMPORARY SHEET PILING	SQ.FT.	_		404
STRUCTURAL STEEL .	LBS.i	5,330		5,330
FLOOR DRAIN SPECIAL	EACH	12		12

50 14,244 2048 2048 618.4 0.16 0.16 618.56 618.56 DESIGN 0.2 0.2 619.10 619.10 100 15,821 2:143 2:143 6:18.9 BASE OVERTOPPING NA MAX. CALC. 500 19,900 2377 2377 620.0 0.26 0.26 620.26 620.26

DESIGNED: V. S. N. CHECKED: D. H C. DRAWN: R. A. W.

CHECKED: K.L. F.

KENNETH L. FIGGE REGISTERED STRUCTURAL ENGINEER 2902 IN ILLINOIS. NO. 2992

C. SHEJETURAL ADD DELY ONLY

Engineer of Crisiges and Streetures

DESIGN STRESSES

PRECAST PRESTRESSED UNITS

fe = 5,000 P.S.I.

fici = 4,000 PS.1. fis = 270,000 PS.1. (1/2" + Strands) fisi = 189,000 PS.1. (1/2" + Strands)

F = 12.52

CAST IN PLACE CONCRETE

fe = 3500 FS1 fy = 60,000 P.S.I. (REINFORCEMENT) = 9

STRUCTURAL STEEL (FOR TEMP. SUPPORT SYSTEM) Fy = 36,000 P.S.I. (MIN.)

LOADING HS 20 - 44

Design Specification: 1977 AAS.H.T.O.; 1978; 1979; 1980; 1981 f 1982 Interim Specifications (Allow 25 p.s.f. for future wearing surface)

GENERAL PLAN & ELEVATION

FA. RTE. 18 OVER APPLE RIVER FA. RTE. 18, SEC. 103-D-BR JO DAVIESS COUNTY STATION 259 + 08.20

Reinf. Bors (Epery Ct) from 14,50 Rev 16/83 - Add "Temp Sla

FOR INFORMATION ONLY

ND.

whks

	USER NAME = dheberling	DESIGNED -	REVISED		
	FILE NAME = 0430028-64E08.dgn	CHECKED -	REVISED		
	PLOT SCALE = 0:2.000000 ':' / in.	DRAWN -	REVISED		
	PLOT DATE = 8/5/2013	CHECKED -	REVISED		

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

EXISTING PLANS STRUCTURE NO. 043-0080 SHEET NO. 47 OF 60 SHEETS

COUNTY 308 103BR-4 JoDAVIESS 159 97 CONTRACT NO. 64E08