THIS DETAIL IS INCLUDED FOR INFORMATION ONLY **米 57-7[(1)** HBR-1:HBR-21 57-20[(1). HBR, HBR-1, HBR-3] SHEET NO. 2 55B74 * OF 17 SHEETS BENCH MARK: TOP DF CONCRETE HEADWALL FOR SLOPE DRAIN AT N.W. QUARTER AT STRUCTURE 0060. ELEV.-784.49. EXISTING STRUCTURES: TWIN BRIDGES AT STA 638+50.46, VETERANS PARKWAY OVER S.B. - F.A.I. ROUTE 74 SECTION 57-20HBR-1, BUILT IN 1963 AND 1964, STRUCTURE NO. 057-0059 AND 057-0060, SUPERSTRUCTURE-3 SIMPLE COMPOSITE SPANS W/R.C. SLAB ON STL BEAMS, SUBSTRUCTURE - STANOARD PILE BENT ABUTMENTS; PIERS - MULTIPLE COLUMNS (3) ON PILES. GENERAL NOTES An 100 surfaces of Mountains & Pierr Sears entries . Endge East Sealer Transmission, Eet number quantity = 1000 cg. At FASTENERS SHALL BE HIGH STRENGTH BOLTS. BOLTS 3/4"0, OPEN HOLES 15/16"0. UNLESS OTHERWISE NOTED. CALCULATED WEIGHT OF STRUCTURAL STEEL= 19,980 LBS. (M 183) THE THREE COAT LEAD AND CHROMATE FREE ALKYD PAINT SYSTEM SHALL BE USED FOR SHOP AND FIELD PAINTING OF NEW STRUCTURAL STEEL AND FOR PAINTING OF EXISTING STRUCTURAL STEEL. THE COLOR OF THE FINAL FINISH COAT SHALL BE MUNSELL STANDARD 7.504/8 INTERSTATE GREEN. SALVAGE: METAL RAILING AND EXPANSION JOINT MATERIAL TO IDOT MAINTENANCE. SUPERSTRUCTURE: TO BE RETROFITTED WITH NEW CONCRETE PARAPETS, DECK SCARIFICATION, PLANT CONCRETE OVERLAY, NEW DRAINAGE SCUPPERS, REPLACE REOPREME EXPANSION JOINTS WITH 22" PREFORMEN JOINT SEALS, REPOVE EXISTING LONGITUDINAL SEPARATION JOINT, ADD NEW DIAPHAGMS FOR BEAMS AT SEPARATION JOINT, PARTIAL AND FULL DEPTH DECK REPAIRS, CLEAN AND PAINT BRIDGES, REPOSITION BEARINGS, AND REPLACE NUTS AND WASHERS ON EXISTING ARCHOR BOLTS. FIELD WELDING OF CONSTRUCTION ACCESSORIES WILL NOT BE PERMITTED TO THE BOTTOM FLANGE OF BEAMS OR GIRDERS NOR TO THE TOP FLANGE FOR A OTSTANCE EQUAL TO ONE-FOURTH THE SPAN LENGTH EACH WAY FROM THE PIER SUPPORTS. FIELD WELDING IN OTHER AREAS WILL BE PERMITTED ONLY WHEN APPROVED BY THE ENGINEER. SUBSTBUCTURE: REP CONC.STRUCT, EPOXY CRACK SEALING AND FORM. CONC.REP FOR PIERS & ABUT'S. SEE SHEETS #13 AND #14 OF I7 FOR DETAILS. REPAIR AND EXTEND SLOPE WALLS TO 5° BEYOND FACE OF PARAPETS AND PLACE SLOPE WALL BETWEEN STRUCTURES 0059 AND 0060, SEE SHEET #16 OF 17 FOR DETAILS. REINFORCEMENT BARS SHALL CONFORM TO THE REQUIREMENTS OF AASHTO M-31, M-42 OR M-53 GRADE 60. STAGE CONSTRUCTION: TRAFFIC TO BE MAINTAINED USING STAGE CONSTRUCTION. CLOSE HALF OF EACH STRUCTURE AT A TIME WITH TEMPORARY CONCRETE BARRIER AS INDICATED ON SHEET ± 3 . SLOPE WALLS SHALL BE REINFORCED WITH WELDED WIRE FABRIC, $6"\ X\ 6"\ -W4.0\ X$ W4.0, WEIGHING 5B LBS. PER 10D SQ. FT. PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING STRUCTURE HAVE REEN TAKEN FROM EXISTING PLANS AND ARE SUBJECT TO NORMAL CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIEV SUCH DIMENSIONS AND DETAILS IN THE FIELD AND MAKE NECESSARY APPROVED ADJUSTMENTS PRIOR TO CONSTRUCTION OR ROBERIES OF MATERIALS. SUCH VAREATIONS SHALL NOT BE CAUSE FOR ADDITIONAL COMPRESSTION FOR A CHANGE IN THE SCOPE OF THE WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE DID FOR THE WORK. -Use Traffic Borrier Type IO For Departing End Of Bridge (Typ.) Existing formed droins To Be Removed (Typ.) & RODDWAY--Use Troffic Barrier Type 6 For Approach End Of Bridge (Typ.) EXPANSION BDLTS SHALL CONSIST OF APPROVED EXPANSION ANCHORS, PROVIDING MINIMUM CERTIFIED PROOF LOAD = 4,080 LBS., AND 3/4" \$\text{0.000} X 12" HODKED BOLTS. 12-0" 20-0" Typ. E.B. 20'-0" 12'-0 THE CONTRACTOR WILL BE REQUIRED TO MARK ON TOP OF THE CONCRETE DECK THE LOCATIONS OF THE TOP FLANGE OF ALL THE STEEL BEAMS OR GIRDERS, PRIOR TO ANY REMOVAL OF THE BRIDGE CONCRETE DECK. SAW CUTTING DIRECTLY OVER THE TOP OF THE BEAM OR GIRDER PLANGES IS NOT PERMITTED. THE MAXIMUM HEIGHT THAT A BEAM CAN BE RAISED FOR REPOSITIONING A BEARING IS 1/8". THE COST OF JACKING AND CRIBBING IS INCIDENTAL TO "BEARING REPOSITIONING". SEE SPECIAL PROVISIONS FOR "BEARING REPOSITIONING". CURVE DATA 4°01'50" CLEAN AND PAINT ALL STRUCTURAL STEEL. ALL EXISTING STRUCTURAL STEEL SHALL BE CLEANED USING METHOD II, WITH THE EXCEPTION OF THE FOLLOWING WHICH SHALL BE CLEANED BY METHOD I: THE END IO FEET OF EACH BEAM AT THE ABUTMENTS AND AT THE PIERS; AND THE BEARINGS. FOLLOWING THE REMOVAL OF THE CONCRETE DECK IN THE DECKROTH OF THE CONCRETE DECK SHALL BE CLEANED USING METHOD II. THE STEEL THUS EXPOSED SHALL BE FIELD PRIMED PRIOR TO FORMING THE NEW DECK. SEE SPECIAL PROVISIONS FOR CLEANING AND PAINTING STEEL STRUCTURES. CURVE NO.12 PI. STA. = 49+30.21 △= 52°-30'-00" € W.B. D = 2°-30' Rdwy R = 2291.83' TOTAL BILL OF MATERIALS T = 1130.21 UNIT SUPER SUB. TOTAL L = 2100.00° FURNISHING & ERECTING STRUCTURAL STEEL 19,980 19,980 41'-93" 20:21/2" 43'- 24" E = 263.53' r € Veterans Pkwy REINFORCEMENT BARS (EPOXY COATED) LB. 2000 31470 Sta. 57 + 97.32~ 58,4 S = 0.045/FT CONCRETE REMOVAL (SPECIAL) L Tangent to &esta. 57 +97.32 SQ.YD. 146'-94" € to € Big. Abut. BRIDGE DECK CONCRETE OVERLAY OPTION S0. YD. 1550 1556 1550 BRIDGE DECK CONCRETE SCARIFICATION 1/4 SQ.YD. 1556 RAMP CURVE FOR 0059 SQ.YD. 1289 BITUMINOUS CONCRETE SURFACE REMOVAL | m m | P.I. STA. = 17+47.06 EXPANSION BOLTS 3/4 INCH EACH △ = 9°-15'-14.3" DRAINAGE SCUPPERS FACH D = 2°-25' LIN.FT. PREFORMED JOINT SEAL 2 R = 2370.86 99.5 CONCRETE REMOVAL 814 T = 191 88' LIN.FT. L = 382.921 S0. FT. 406.4 406.4 LC.=382.511 BEARING REPOSITIONING SQ.YD. P.C. STA. = 15 + 55.16 = P.T. STA.59 + 00 SLOPE WALL REMOVAL SO. YD. CLEANING AND PAINTING STEEL BRIDGE NO. 3 LUMP SUM LIN.FT. BRIDGE HANDRAIL REMOVAL EXPANSION DEVICE REMOVAL \$500 800 may Awar 5 80 7 to 20 0000 I IN ET Pier #4 DECK SLAB REPAIR (PARTIAL DEPTH) Sn. vn. 377 – Brg. Abut. 4 DECK SLAB REPAIR (FULL DEPTH, TYPE 1) SO.YD. - Brg. Abut. 3 PLAN 41 CLEANING & PAINTING STEEL BRIDGE NO. 4 LUMP SUM NOTES: All dimension radial to & Veterans Pkwy (Curve 2°30'unless noted) 1"ANCHOR BOLTS CONTROLLED LOW STRENGTHMATERIAL CU. YD 24 24 STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DESIGN STRESSES (NEW CONSTRUCTION) Royles anie -Concrete fc. = 3,500 psi GENERAL DATA Reinforcement fy = 60,000 psi Design Looding: H-20-S16-44 and Alternate Design Specifications: 1983 A.A.S H.T.O. and 1984 thru 1988 Interim Specifications. REVISIONS NAME DATE VETERANS PARKWAY OVER E.B.- F.A.I. RT. 74 CHECKED M.J.H. SECTION 57-20 HBR-I Structural Steel: fy = 36,000 psi A.A.S.H.T.O. M-183 McLEAN COUNTY Z.Q. Existing and Proposed Structural Steel STATION 638 + 50.46 CHECKED pigush potmin STRUCTURE NO. 057-0059(E.B.) STRUCTURE NO. 057-0060(W.B.) 11/20/89 Δ Δ Δ D D С Α 0 В С TAMERAN FILE NAME = DESIGNED REVISED USER NAME = detersbj SECTION COUNTY S.N. 057-0059 & S.N. 057-0060 STATE OF ILLINOIS c:\pw_work\pwidot\detersbi\d0157116\D570570-sht-details.dgr DRAWN REVISED 704 57-20(HB,HB-1)BR-1 MCLEAN 440 265 **EXISTING GP&E BRIDGE PLANS (1990)** CHECKED REVISED **DEPARTMENT OF TRANSPORTATION** CONTRACT NO. 70570 SHEET NO. 1 OF 1 SHEETS STA. SCALE: PLOT DATE = 8/13/2013 DATE REVISED