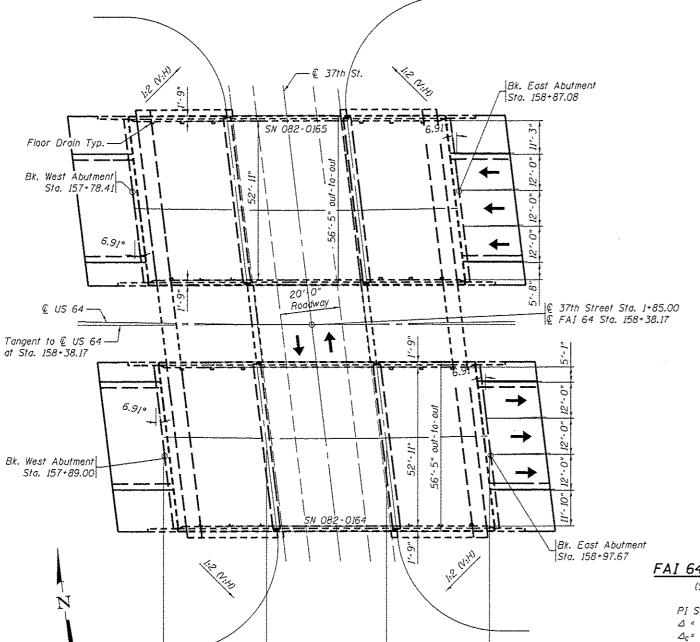


ELEVATION



TOTAL BILL OF MATERIAL

The state of the s		
ITEM	UNIT	QUANTITY
Bridge Deck Concrete Sealer	Sq. Ft.	13240
Structural Repair of Concrete (Depth <= 5")	Sq. Ft.	116
Deck Slab Repair (Partial)	Sg. Yd.	1.6
Deck Slab Repair (Full)	Sq. Yd.	3.0
Protective Shield	Sq. Yd.	88
Concrete Removal	Cu. Yd.	306
Concrete Structure	Cu. Yd.	68
Concrete Superstructure	Cu. Yd.	320
Reinforcement Bars. Epoxy Coated	Pound	90190
Bar Splicers	Each	888
Concrete Anchors	Fach	448

INDEX OF SHEETS

General Plan & Elevation <u>Staging</u> Temporary Concrete Barrier For Stage Construction Deck Repairs Substructure Repairs Bridge Approach Slab Details 8-9 Bar Splicer Assembly Details

GENERAL NOTES

- I. Fasteners shall be AASHTO MI64 Type I, mechanically galvanized bolts (in painted areas and MI64 Type 3 in unpainted areas). Bolts 78 0, holes 15,6 0, unless otherwise noted.
- 2. No field welding is permitted except as specified in the contract documents.
- 3. Reinforcement bars designated (E) shall be epoxy coated.
- 4. Prior to pouring the new concrete deck, all heavy or loose rust, loose mill scale, and other loose or potentially detrimental foreign material shall be removed from the surfaces in contact with concrete. Tightiy adhered paint may remain unless otherwise noted. Removal shall be accomplished by methods that will not damage the steel and the cost will be included in the pay item covering removal of the existing concrete.
- 5. As directed by the Engineer, existing construction accessories welded to the top flange of beams and girders shall be removed. The weld areas shall be ground flush and inspected for cracks using magnetic particle testing (MT) or dye penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks that can not be removed by grinding $^{l}_{4}$ in, deep shall be identified and reported to the Bureau of Bridges and Structures for further disposition. The cost of removing welded accessories, grinding and inspecting weld areas and grinding cracks will be paid for according to Article 109.04 of the Standard Specifications.
- 6. 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 of 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 the work.
- 7. Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.
- 8. Areas of deck-repairs shown are estimated. The Engineer shall show actual locations of deck repairs on As-built Plans.
- 9. All structural steel shall be shop pointed with the inorganic zinc rich primer per AASHTO M300, Type 1. Color to match existing. Cost included with Furnishing and Erecting Structural Steel.
- 10. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.
- 11. Concrete anchors shall be epoxy adhesive anchors with sufficient embedment to match the bars yeild strength.



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ORIGINAL DESIGN STRESSES

FIELD UNITS f'c = 1.400 psi (Piers and Supersstructure) f'c = 1,000 psi (Substructure w/ Earth Pressure)

fy = 20,000 psi (Reinforcement)

fy = 20,000 psi (Structural Steel A36)

N = 75 psi

GENERAL PLAN & ELEVATION INTERSTATE 64 OVER 37TH ST. F.A.I. RTE. 64 - SEC. 82-3HB ST. CLAIR COUNTY US 64 STA. 158+38.17 37TH ST. STA. 1+85.00

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION SKETCH

R 9 W 3rd, P.M.

Structure

Location

COUNTY **GENERAL PLAN & ELEVATION** 64 82-3HB ST. CLAIR 208 177 STRUCTURE NO. 082-0164 & 082-0165 CONTRACT NO. 76D22 SHEET NO. 1 OF 10 SHEETS FED. ROAD DIST. NO. 8 HALINGIS FED. AID PROJECT

FAI 64 CURVE DATA

(Spiral Curve)

PI STA. = 157+18.07 Δ = 16° 51' 34" Dc = 10° 51' 34"

Dc= 3° 0' 0" Rc= 1,909.86'

Lc= 361.98' L s= 200.00' 85 3° 0' 0"

T 5= 383.16'

Es= 81.76'

S.E. = 0.025'/FT.

BENTON & ASSOCIATES, INC. FILE NAME = Pr\ 18+2166-2\ 0++1gm\ USER NAME :

34'-4"

Plans\ 082-0164 & 082-0165 CHECKED - SJH REVISED PLOT SCALE : DRAWN REVISED 0820154-76022-801-GPE.don CHECKED - S.IH PLOT DATE 3 REVISEO

40'-0"

108'-8" Bk. to Bk. Abutments

PLAN

DESIGNED - MBH

34'-4"

REVISED

10/3/13