

177'-10" Back-to-Back Abutment

83'-3"

SN 082 0161

-0"

Sidewalk

12 25th Street Sta. 20 00

8'-0" Median

FAI 64 Sta. 120+87,29

88

11

32'-0"

SN 082-0160

90'-10<sup>3</sup>a'

182'-1038" Back-to-Back Abutment

PLAN

& Gutter

45'-5"

Floor Drain Typ.

Bk. West Abutment

Sta. 120+04.88

5 Spa @ 6'-0"

5

54'-0"

ccc4d-tecces

Bk. West Abutme

Sta. 119+86.49

46'-1"

7'-0"

### 6 Spa. 9 6'-0" € 25th St. TOTAL BILL OF MATERIAL

49'-2"

Bk. East Abutment

Bk. East Abutment

Sta. 121+69.35

829

Sta. 121+82.72

1 82 P.S.

E = 7.22'

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ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	29.0
Concrete Superstructure	Cu. Yd.	28.6
Bridge Deck Concrete Sealer	Sq. Ft.	21300
Furnishing and Erecting Structural Steel	Pound	2520
Reinforcement Bars, Epoxy Coated	Pound	4170
Preformed Joint Strip Seal	Foot	221
Deck Slab Repair (Partial)	Sq. Yd.	5.7
Deck Slab Repair (Full)	Sq. Yd.	1.3
Bar Splicers	Each	96
Remove and Re-erect Existing Lighting Unit	Each	1
Protective Shield	Şq. Yd.	63
Anchor Bolt, I'	Each	72

## FIELD UNITS

f'c = 1.200 psi (Substructure, Piers, & Curb) fy = 20,000 psi (Reinforcement) fy = 20,000 psi (Structural Steel A36)

081-004623 LICENSED STRUCTURAL **ENGINEER** OF

R 9 W 3rd. P.M. Structure Location LOCATION SKETCH

GENERAL PLAN & ELEVATION INTERSTATE 64 OVER 25TH ST F.A.I. RTE. 64 - SEC. 82-2HBI ST. CLAIR COUNTY US 64 STA, 120+87,29 25TH ST. STA. 20+00.00

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

54'-1138"

**GENERAL PLAN & ELEVATION** STRUCTURE NO. 082-0160 & 082-0161

SHEET NO. 1 OF 10 SHEETS

COUNTY TOTAL SHEE 64 ST. CLAIR 208 167 82-2H81 CONTRACT NO. 76D22 AID PROJECT

## ORIGINAL DESIGN STRESSES

f'c = 1,400 psi (Superstructure) n = 10

N = 75 psi

Concrete Removal	Cu. Yd.	29.0
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Protective Shield	Sq. Yd.	63

# 10. Areas of deck repairs shown are estimated. The Engineer shall show actual

locations of deck repairs on As-built Plans. 11. The existing structural steel contains lead. The contractor shall take appropriate

when the deck is poured at an ambient temperature other than 50° F.

precautions to deal with the presence of lead on this project.

9. Joint openings shall be adjusted according to Article 520.04 of the Standard Specs.

INDEX OF SHEETS

Temporary Concrete Barrier For Stage Construction

2-3

General Plan & Elevation

GENERAL NOTES

1. All new structural steel shall conform to AASHTO Classification M270 Gr. 36

3. No field welding is permitted except as specified in the contract documents,

2. Fasteners shall be AASHTO MI64 Type 1, mechanically galvanized balts (in painted

areas and M164 Type 3 in unpainted areas). Bolts  $^78$   $^9$ , holes  $^{15}$   $^6$   $^9$ , unless

5. 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. Tightly 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

6. 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

penetrant testing (PT) by qualified personnel approved by the Engineer. Any cracks

that can not be removed by grinding 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.

construction variations. The Contractor shall field verify existing dimensions and

to construction or ordering of materials. Such variations shall not be cause for

details affecting new construction and make necessary approved adjustments prior

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.

flush and inspected for cracks using magnetic particle testing (MT) or dye

7. Plan dimensions and details relative to existing plans are subject to nominal

8. 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.

Concrete Removal & Replacement Preformed Joint Strip Seal Bar Splicer Assembly Details

Staging

4. Reinforcement bars designated (E) shall be epoxy coated.

unless otherwise noted.

otherwise noted.

existing concrete.

Deck Repairs

- 12. All structural steel shall be shop painted with the inarganic zinc rich primer per AASHTO M300, Type I. Color to match existing, Cost included with Furnishing and Erecting Structural Steel.
- 13. Existing structural steel that will be in contact with new structural steel shall be cleaned and painted prior to erection as required by the Special Provisions "Cleaning & Painting Contact Surface Areas of Existing Steel Structures".

BENTON & ASSOCIATES, INC. TLE NAME : Pr\ 10-2166-2\ Design\ DESIGNED - M8H USER NAME : REVISED CHECKED - SJH Plans\ 982-9169 \$ 992-9161 REVISED - JAS PLOT SCALE : DRAWN 0820160-76022-001-GPE.dgn REVISED PLOT DATE CHECKED - SUH REVISED