50104000	BRIDGE RAIL REMOVAL	FOOT	230	230		
50104000	RRIDGE RALL REMOVAL	EOOT	230	230		_
50102400	CONCRETE REMOVAL	CU YD	37.6	37.6		_
						_
50101500	REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	1		_
						_
44213200	SAW CUTS	FOOT	451	451		
44000600	SIDEWALK REMOVAL	SQ FT	1,792	1,792		_
						_
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	385	385		_
						_
44000100	PAVEMENT REMOVAL	SQ YD	553	553		_
44000100						_
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	1,138	1,138	<u> </u>	_
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	80	80		_
						_
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	32	32		
NO.			QUANTIT	SN 016-2029		_
	ITEM	UNIT		BR I DGE 0013	SAFETY - IDOT 0021	_
			1	90% FED 10% STATE	90% FED 10% STATE	



ITEMS	EXISTING	PROPOSED
f'c	3000 psi	3500 psi
f'c (superstructure)	3000 psi	4000 psi
fy (reinforcement)	40,000 psi	60,000 psi
fy (structural steel)	33,000 psi	50,000 psi (M270 Grade 50)*

STATION	OFFSET
28+51	30'-0" Lt.
28+51	30'-0" Rt.
29+54	30'-0" Lt.
29+54	30'-0" Rt.
30+45	30'-0" Lt.
30+45	30'-0" Rt.
31+42	30'-0" Lt.
31+42	30'-0" Rt.

### GENERAL NOTES

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

- 2. All new structural steel shall be galvanized. See Special Provision for "Hot Dip Galvanizing for Structural Steel."
- 3. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot dip galvanized bolts. Bolts  $\frac{7}{8}$ in.  $\oslash$ , holes  $\frac{15}{16}$ in.  $\oslash$ , unless otherwise noted.
- 4. Calculated weight of Structural Steel (Grade 50)= 248,440 lb and Structural Steel (Grade 36)= 24,620 lb.
- 5. It shall be the Contractor's responsibility to verify the location of all utilities prior to starting construction.
- 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. Bearing seat surface shall be constructed or adjusted to the designated elevation within a tolerance of 1/8"(0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
- 8. Concrete Sealer shall be applied to the designated areas of the piers and abutments.

Face of Backwall, S. Abut.-

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

178'-3'

Protective Shield Limits

### INDEX OF SHEETS

- 1. GENERAL PLAN & ELEVATION
- GENERAL NOTES & BILL OF MATERIAL 2.
- 3. DECK ELEVATION 1
- 4. DECK ELEVATION 2
- 5. DECK ELEVATION 3 6. TOP OF SOUTH APPROACH SLAB ELEVATIONS
- 7. TOP OF NORTH APPROACH SLAB ELEVATIONS
- 8. SUPERSTRUCTURE DECK
- 9. SUPERSTRUCTURE DETAILS
- 10. DIAPHRAGM DETAILS
- 11. SOUTH APPROACH SLAB
- 12. NORTH APPROACH SLAB
- 13. APPROACH SLAB DETAILS
- 14. BRIDGE FENCE RAILING, PARAPET MOUNTED
- 15. PREFORMED JOINT STRIP SEAL
- 16. FRAMING PLAN AND STEEL GIRDER
- 17. FRAMING DETAILS
- 18. BEARING DETAILS
- 19. N. & S. ABUTMENT REMOVAL PLAN
- 20. N. & S. ABUTMENT CONSTRUCTION PLAN 21. N. & S. ABUTMENT DETAILS
- 22. N. & S. ABUTMENT & WINGWALL REPAIRS
- 23. PIER 1 ADJUSTMENT & DETAILS
- 24. PIER 1 REPAIRS
- 25. PIER 2 ADJUSTMENT & DETAILS
- 26. PIER 2 REPAIRS



DESCRIPTION	Unit	Super	Sub	Total	
REMOVAL OF EXISTING SUPERSTRUCTURES	EACH	1	-	1	
CONCRETE REMOVAL	CU YD	37.6	-	37.6	
BRIDGE RAIL REMOVAL	FOOT	230	-	230	
PROTECTIVE SHIELD	SQ YD	679	-	679	
STRUCTURE EXCAVATION	CU YD	-	122.8	122.8	-A
CONCRETE STRUCTURES	CUYD		107.2	<u>107.2</u>	
CONCRETE SUPERSTRUCTURE	CUYD	583.4	-	583.4	i
BRIDGE DECK GROOVING	SQ YD	957.0		957.0	ſ
PROTECTIVE COAT	SQ YD	1,595	-	1,595	
CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	166.8	-	166.8	
FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	-	1	
STUD SHEAR CONNECTORS	EACH	6,216	-	6,216	
REINFORCEMENT BARS, EPOXY COATED	POUND	167,840	19,180	187,020	
BRIDGE FENCE RAILING, CURVED	FOOT	560	-	560	
NAME PLATES	EACH	1	-	1	
PREFORMED JOINT STRIP SEAL	FOOT	124.0	-	124.0	
ELASTOMERIC BEARING ASSEMBLY, TYPE I	EACH	24	-	24	
ANCHOR BOLTS, 1"	EACH	48	-	48	
ANCHOR BOLTS, 1 1/4"	EACH	16	-	16	
GRANULAR BACKFILL FOR STRUCTURES	CU YD	-	36.9	36.9	
CONCRETE SEALER	SQ FT	-	7,748	7,748	
EPOXY CRACK INJECTION	FOOT	-	100	100	
STRUCTURAL REPAIR OF CONCRETE (DEPTH EQUAL TO OR LESS THAN 5 INCHES)	SQ FT	-	885.0	885.0	
STRUCTURAL REPAIR OF CONCRETE (DEPTH GREATER THAN 5 INCHES)	SQ FT	-	184.0	184.0	
					1
					1

\*Parapet Wall & \_\_\_\_\_61'-2" \*Parapet Wall & 53'-8" Bridge Rail Removal Bridge Rail Removal \*Concrete Removal - 16.8 Cu. Yd. ELEVATION (Quantity for Parapet Wall Only) Showing limits of protective shield & bridge rail and parapet wall removal Bridge Rail Removal - 230 Foot 63'-0"

LIMITS OF PROTECTIVE SHIELD

- Face of Backwall, N. Abut.



## BRIDGE RAIL AND PARAPET WALL REMOVAL

(This detail is applicable to the Bridge Rail and Parapet Wall removal beyond the footprint of the bridge. Bridge Rail will be removed under "Bridge Rail Ŕemoval" pay item and Parapet Wall will be removed under "Concrete Removal" pay item.)

ABBREVIATIONS:

abut.	abutment	NW	north west
B.F.	back face	no.	number
B	baseline	0.F.	outside face
brg.	bearing	PJF	preformed joint fill
۲ ۵	centerline	PJS	preformed joint sea
ζĮ.	clearance	PG	profile grade
conc	concrete	prop	proposed
const.	construction	rea'd	required
E.B.	expansion bearings	rte.	route
ΕA	east abutment	SB	south bound
EB	east bound	SE	south east
E.F.	each face	SW	south west
elev.	elevation	sect.	section
exist.	existing	spa.	spaces
F.B.	fixed bearings	spec.	specification
F.F.	front face	sta.	station
I.F.	inside face	std.	standard
jt.	joint	struct.	structure
Ĭong.	Ĭongitudinal	typ.	typical
max.	maximum	ÚŃO	unless noted otherv
min.	minimum	WA	west abutment
NB	north hound	WB	west bound
NE	north east		wingwall
IVL	north East	V V V	wingwan

≣ ≥												
P d		USER NAME = asoltani	DESIGNED - AS	REVISED - 07/13/2023 1		CENERAL NOTES & RULLOF MATERIAL	F.A.I.	SECTION	COUNTY	TOTAL	SHE	ET
Bowman "15 Wester Date of the set	Rolamoan 311 S. Wacker Drive, Suite 1950 Chicago, Elinois 60505		CHECKED - AJN	REVISED -	STATE OF ILLINOIS		57	2021-063-B	соок	103	54	1 1
	PLOT SCALE =	DRAWN - AS	REVISED -	DEPARTMENT OF TRANSPORTATION	31NUCIUNE NU: 010-2029	CONTRACT NO			T NO.	NO. 62P00		
		PLOT DATE = 04/17/2023	CHECKED - AJN REVISED -	REVISED -		SHEET 2 OF 26 SHEETS	ILLINOIS FED. AID PROJECT					
	04/17/2023 12:18:59 PM											_

# TOTAL BILL OF MATERIAL



ler aler

## NAME PLATE AT NORTH ABUTMENT WALL

STATION 30+00
RE-BUILT BY
STATE OF ILLINOIS
F.A.I. RT. 57 SEC.2021-063-B
LOADING HL-93
STR. NO. 016-2029

wise

### NAME PLATE See Std. 515001

Note: Existing Name Plate shall be cleaned and relocated next to new Name Plate. Cost included with Name Plates.



04/17/2023 12:19:22 PM

DETAILS 016-2029		SECTION			COUNTY	TOTAL SHEETS	SHEET NO	
		2021-063-B			COOK	103	65	
					CONTRACT	NO.	62P00	
26 SHEETS			ILLINOIS	FED. AI	PROJECT			