

GENERAL NOTES:

1. Fasteners shall be AASHTO M164 Type 1, mechanically galvanized bolts. Bolts $\frac{7}{8}$ " ϕ , holes $\frac{15}{16}$ " ϕ , unless otherwise noted.
2. Calculated weight of Structural Steel = 4,814,600 lbs.
3. All structural steel shall be AASHTO M 270 Grade 50.
4. All structural steel shall be metalized (thermal spraying). See special provision for "Metallizing Structural Steel".
5. No field welding is permitted except as specified in the contract documents.
6. Reinforcement bars designated (E) shall be epoxy coated.
7. 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 work; however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
8. If the Contractor elects to use cantilever forming brackets on the exterior beams or girders, the brackets shall be placed at the same locations required for the hardwood blocks in Article 503.06(b) of the Standard Specifications. If additional cantilever forming brackets are required, hardwood blocking shall be wedged between the exterior and first interior beam at each of these additional bracket locations.
9. Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of $\frac{1}{8}$ in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
10. Concrete Sealer shall be applied to the designated areas of the abutments and pier.
11. Slipforming of the parapet is not allowed.
12. Structural steel erection shall be accomplished by a steel erection contractor or subcontractor certified as an Advanced Certified Steel Erector (ACSE) by the American Institute of Steel Construction (AISC). See special provision for "Erection of Complex Steel Structures".
13. Contractor shall provide equipment, labor and materials as required to install drilled shafts thru existing known obstruction. Obstruction mitigation shall be as per Special Provision Foundation Construction at Existing Obstructions.
14. The Contractor shall install protective shield system to protect travelling public from falling objects during the removal of existing S.N. 016-2449 (NW Ramp) & S.N. 016-2451 (EN Ramp). See sheet 470 for location and limits of Protective Shield.
15. The Drilled Shaft quantities and reinforcement detailing are based on the estimated elevations shown on the plans. The actual elevations may differ at each shaft locations and corresponding adjustments shall be made to the drilled shaft and reinforcement quantities and payment limits.
16. Concrete for the Pier 3 & Pier 8 shall be in accordance with Section 503 of Standard Specifications, except that the mix design of concrete shall attain a compressive strength of 5,000 psi at 14 days.
17. The Contractor shall field verify location of existing utilities prior to construction. The Contractor shall take precautions not to damage existing utilities. Any such damage shall be repaired by the Contractor at no additional cost.
18. The bracing system for Braced Excavation shall be installed without the use of impact-type pile drivers. The proposed equipment and procedures used for the installation of bracing system shall be submitted to the Engineer for approval prior to their use. If vibratory equipment utilized, the Contractor shall also submit documentation regarding the operating noise levels and operating vibration characteristics of the equipment proposed. The approval of the equipment and procedure by the Engineer does not guarantee the performance in the field of the equipment will be acceptable. If in the judgment of the Engineer, the noise and/or vibration effects exceed those required by the local residents, then the Contractor must halt production and find a remedy suitable to the Engineer. Threshold values for vibration monitoring are included in the special provision "CONSTRUCTION VIBRATION MONITORING". The costs incurred finding suitable equipment and procedures shall be included in the cost of Braced Excavation. No additional costs shall be paid for this effort.

INDEX OF SHEETS

S-1	General Plan and Elevation I	S-56	Deck Cross Section - Unit V	S-111	Fixed Pot Bearing Details II
S-2	General Plan and Elevation II	S-57	Deck Cross Section - Unit VI	S-112	South Abutment Plan and Elevation
S-3	General Plan and Elevation III	S-58	Deck Details	S-113	South Abutment Details
S-4	General Notes & Index of Sheets	S-59	Deck Pouring Sequence	S-114	West Abutment Plan and Elevation
S-5	Total Bill of Material & Abutment Section	S-60	South Approach Slab Plan	S-115	West Abutment Details
S-6	Profiles & Curve Data	S-61	South Approach Slab Details	S-116	Pier 1 Plan & Elevation
S-7	Offset Sketch	S-62	West Approach Slab Plan	S-117	Pier 1 Details
S-8	Substructure Layout I	S-63	West Approach Slab Details	S-118	Pier 2 Plan & Elevation
S-9	Substructure Layout II	S-64	Expansion Joint - South Abutment	S-119	Pier 2 Details
S-10	Substructure Details	S-65	Modular Expansion Joint - Pier 2	S-120	Pier 3 Plan & Elevation
S-11	Temp. Soil Retention System & Braced Excavation Details	S-66	Modular Expansion Joint - Pier 4	S-121	Pier 3 Details I
S-12	Top of Slab Elevations Plan - Unit I	S-67	Modular Expansion Joint - Pier 6	S-122	Pier 3 Details II
S-13	Top of Slab Elevations I - Unit I	S-68	Modular Expansion Joint - Pier 8	S-123	Pier 4 Plan & Elevation
S-14	Top of Slab Elevations II - Unit I	S-69	Modular Expansion Joint - Pier 10	S-124	Pier 4 Details I
S-15	Top of Slab Elevations Plan - Unit II	S-70	Expansion Joint - West Abutment	S-125	Pier 4 Details II
S-16	Top of Slab Elevations I - Unit II	S-71	Modular Expansion Joint Details	S-126	Pier 5 Plan & Elevation
S-17	Top of Slab Elevations II - Unit II	S-72	Drainage Scupper Details	S-127	Pier 5 Details
S-18	Top of Slab Elevations Plan - Unit III	S-73	Girder Framing Plan - Unit I	S-128	Pier 6 Plan & Elevation
S-19	Top of Slab Elevations I - Unit III	S-74	Girder Elevations - Unit I	S-129	Pier 6 Details
S-20	Top of Slab Elevations II - Unit III	S-75	Girder Camber and Top of Web Elevations - Unit I	S-130	Pier 7 Plan & Elevation
S-21	Top of Slab Elevations Plan - Unit IV	S-76	Girder Moment and Reaction Tables - Unit I	S-131	Pier 7 Details
S-22	Top of Slab Elevations I - Unit IV	S-77	Girder Framing Plan - Unit II	S-132	Pier 8 Plan & Elevation
S-23	Top of Slab Elevations II - Unit IV	S-78	Girder Elevations 1 - Unit II	S-133	Pier 8 Details I
S-24	Top of Slab Elevations Plan - Unit V	S-79	Girder Elevations 2 - Unit II	S-134	Pier 8 Details II
S-25	Top of Slab Elevations I - Unit V	S-80	Girder Camber and Top of Web Elevations - Unit II	S-135	Pier 9 Plan & Elevation
S-26	Top of Slab Elevations II - Unit V	S-81	Girder Moment and Reaction Tables 1 - Unit II	S-136	Pier 9 Details
S-27	Top of Slab Elevations Plan - Unit VI	S-82	Girder Moment and Reaction Tables 2 - Unit II	S-137	Pier 10 Plan & Elevation
S-28	Top of Slab Elevations I - Unit VI	S-83	Girder Framing Plan - Unit III	S-138	Pier 10 Details
S-29	Top of Slab Elevations II - Unit VI	S-84	Girder Elevations - Unit III	S-139	Pier 11 Plan & Elevation
S-30	Top of South Approach Slab Elevations	S-85	Girder Camber and Top of Web Elevations - Unit III	S-140	Pier 11 Details
S-31	Top of West Approach Slab Elevations	S-86	Girder Moment and Reaction Tables - Unit III	S-141	Pier 12 Plan & Elevation
S-32	Deck Plan I - Unit I	S-87	Girder Framing Plan - Unit IV	S-142	Pier 12 Details
S-33	Deck Plan II - Unit I	S-88	Girder Elevations - Unit IV	S-143	Architectural Details I
S-34	Deck Plan I - Unit II	S-89	Girder Camber and Top of Web Elevations - Unit IV	S-144	Architectural Details II
S-35	Deck Plan II - Unit II	S-90	Girder Moment and Reaction Tables - Unit IV	S-145	Architectural Details III
S-36	Deck Plan III - Unit II	S-91	Girder Framing Plan - Unit V	S-146	Bar Splicer Assembly Details
S-37	Deck Plan I - Unit III	S-92	Girder Elevations - Unit V	S-147	Drainage System Details
S-38	Deck Plan II - Unit III	S-93	Girder Camber and Top of Web Elevations - Unit V	S-148	HP Pile Details
S-39	Deck Plan I - Unit IV	S-94	Girder Moment and Reaction Tables - Unit V	S-149	Boring Logs - I
S-40	Deck Plan II - Unit IV	S-95	Girder Framing Plan - Unit VI	S-150	Boring Logs - II
S-41	Deck Plan I - Unit V	S-96	Girder Elevations - Unit VI	S-151	Boring Logs - III
S-42	Deck Plan II - Unit V	S-97	Girder Camber and Top of Web Elevations - Unit VI	S-152	Boring Logs - IV
S-43	Deck Plan I - Unit VI	S-98	Girder Moment and Reaction Tables - Unit VI	S-153	Boring Logs - V
S-44	Deck Plan II - Unit VI	S-99	Girder Splice Details	S-154	Boring Logs - VI
S-45	Parapet Elevations - Unit I	S-100	Cross Frame Details I	S-155	Boring Logs - VII
S-46	Parapet Elevations - Unit II	S-101	Cross Frame Details II	S-156	Boring Logs - VIII
S-47	Parapet Elevations - Unit III	S-102	Cross Frame Details III	S-157	Boring Logs - IX
S-48	Parapet Elevations - Unit IV	S-103	Bearing Layout & Orientation - Unit III	S-158	Boring Logs - X
S-49	Parapet Elevations - Unit V	S-104	Bearing Layout & Orientation - Unit IV	S-159	Boring Logs - XI
S-50	Parapet Elevations - Unit VI	S-105	Bearing Layout & Orientation - Unit V	S-160	Boring Logs - XII
S-51	Deck Cross Section - Unit I	S-106	Elastomeric Bearing Details I	S-161	Boring Logs - XIII
S-52	Deck Cross Section I - Unit II	S-107	Elastomeric Bearing Details II	S-162	Boring Logs - XIV
S-53	Deck Cross Section II - Unit II	S-108	Expansion Pot Bearing Details I	S-163	Boring Logs - XV
S-54	Deck Cross Section - Unit III	S-109	Expansion Pot Bearing Details II	S-164	Boring Logs - XVI
S-55	Deck Cross Section - Unit IV	S-110	Fixed Pot Bearing Details I	S-165	Boring Logs - XVII

STATION 1829+59.43
BUILT BY
STATE OF ILLINOIS
F.A.I. RTE.90/94 - SECTION 2013-010R
LOADING HL - 93
STRUCTURE NO. 016-1705

NAME PLATE S.N. 016-1705
See Std. 515001

0161705-60W2B-5004-CemNote.dgn



USER NAME = floresg	DESIGNED - ATB	REVISED
CHECKED - EJO	REVISIONS	
PLOT SCALE = N.T.S.	DRAWN - MRK	REVISED
PLOT DATE = 5/7/2014	CHECKED - ATB	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES AND INDEX OF SHEETS
STRUCTURE NO. 016-1705**

SHEET NO. S-4 OF S-165 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-010R	COOK	747	320
CONTRACT NO.			60W2B	
ILLINOIS FED. AID PROJECT				