

PRECAST DECK PANEL PLAN

SUGGESTED CONSTRUCTION SEQUENCE

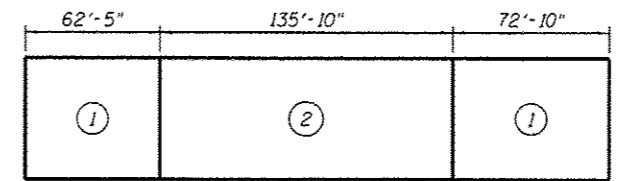
1. Erect steel girders.
2. Cast abutment diaphragms.
3. Clean surfaces of deck panel shear keys and stud shear connector pockets.
4. Install drainage scuppers.
5. Preset leveling bolts to anticipated height.
6. Form fillets between the top of the girders and the bottom of the deck panels.
7. Erect precast concrete deck panels according to the erection sequence for Stage 1.
8. Adjust leveling devices on deck panels to bring panels to grade.
9. All leveling bolts shall be torqued to approximately the same value (20 percent maximum deviation).
10. Install stud shear connectors in all blockouts and along Girder 5.
11. Form and cast transverse and longitudinal UHPC joints for Stage 1.
12. Grout all fillets and stud shear connector pockets along Girders 1-4 and 6-9 with a flowable, non-shrink grout.
13. Repeat steps 7-12 according to the erection sequence for Stage 2.
14. Cast concrete superstructure slab at CTA stairway.
15. Cast parapets.
16. Place latex concrete overlay.

Precast Concrete Deck Panel Notes:
 Contractor shall field verify all dimensions and horizontal locations prior to ordering materials to verify fit-up of new deck panels. The panel layout and dimensions provided are suggested. Final panel layout and dimensions shall be shown on the panel shop drawings. All panel dimensions provided on the superstructure plans are plan dimensions. The fabrication dimensions on the panel shop drawings shall account for the profile and slope of the proposed bridge deck. Contractor shall be responsible for exercising care in lifting, handling, storing, and transportation of the precast slab panels to prevent cracking or damage. Panels shall be lifted by devices as designed by the contractor and approved by the Engineer. UHPC shall reach a strength of 14.5 ksi before live loads or deck overlay can be applied to the bridge. Contractor shall apply set retarder to inside of side bulkheads and to stud pocket blockouts on the day prior to a pour to avoid interference with form setup. After form stripping, set retarder shall be thoroughly cleaned off keyways (and stud pockets) using a water blast to create the desired exposed aggregate finish.

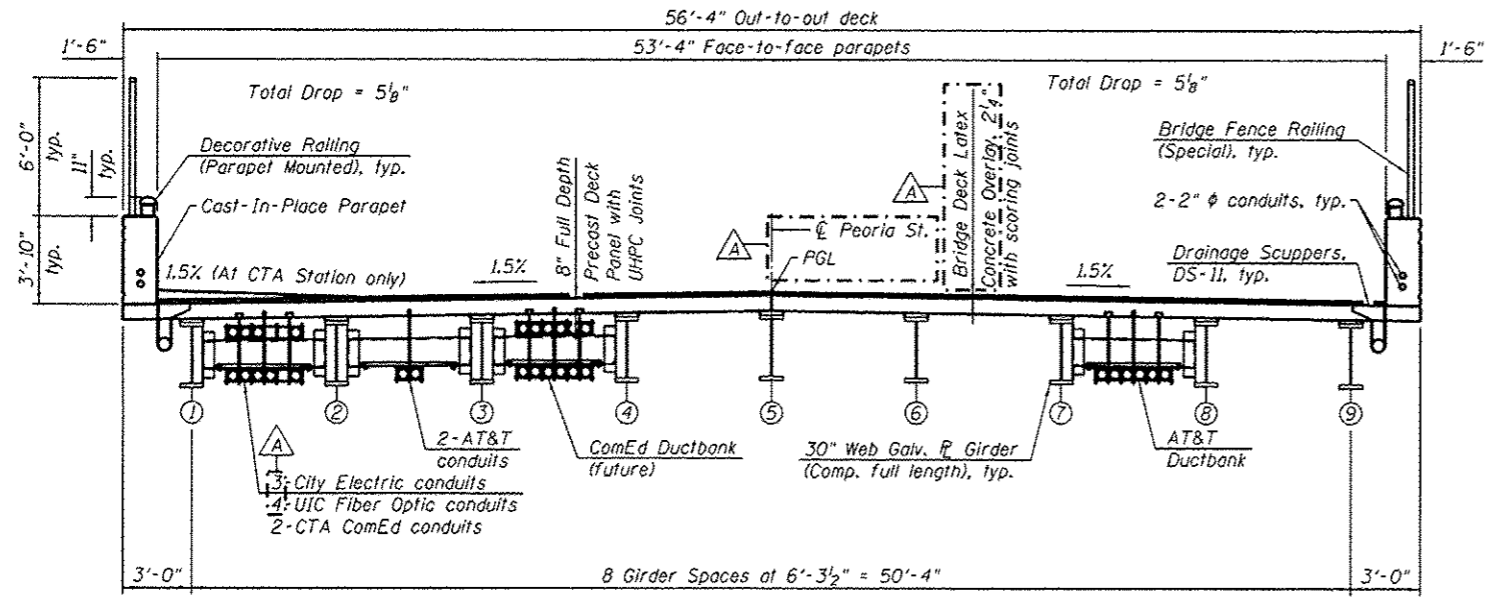
BILL OF MATERIAL

Item	Unit	Total
Precast Concrete Deck Panels	Sq. Ft.	15,272

Notes:
 See Sheet 16 of 55 for Sections A-A, B-B, C-C, D-D, Detail B and Scupper Plan.
 See Sheet 23 of 55 for Detail E.
 See Sheet 20 of 55 for Bill of Material.
 See Sheet 21 of 55 for parapet reinforcement. Type and location of precast inserts for utility hangers shall be coordinated with the utility companies. Cost included in Precast Concrete Deck Panels.
 See Lighting Plans for parapet conduit sleeve locations.
 See Roadway Plans for scoring joint details.
 Location of the 4" sleeve for the wayfinding sign conduit shall be confirmed with the University of Illinois at Chicago prior to fabrication of the deck panels.



PANEL ERECTION SEQUENCE



CROSS SECTION (Looking North)

5/24/14 4:46 PM 0161708-00129-5015-Deck_Plan&Section.dgn



USER NAME: FISCHLITZ	DESIGNED: JRM	REVISED: 12/18/2013 JRM
PLOT SCALE: 21:4.0024 1" / 1'	CHECKED: WJC	REVISED: 2/10/2014 JRM
PLOT DATE: 2/7/2014	DRAWN: RLS	REVISED:
	CHECKED: DL	REVISED:

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PRECAST DECK PANEL PLAN AND CROSS SECTION
 STRUCTURE NO. 016-1708
 SHEET NO. 15 OF 55 SHEETS

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2090	2013-011R	COOK	356	147
CONTRACT NO. 60W29				ILLINOIS FED. AID PROJECT