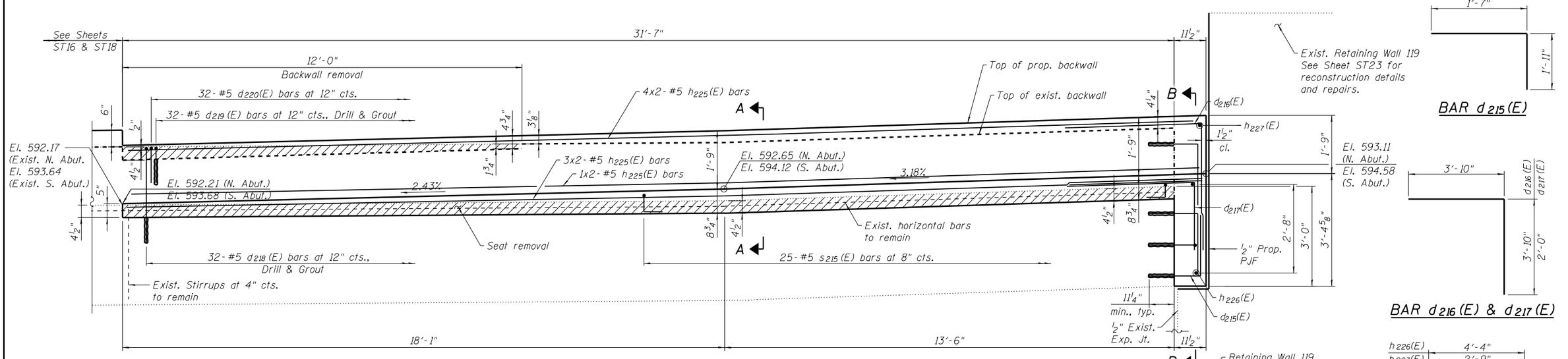
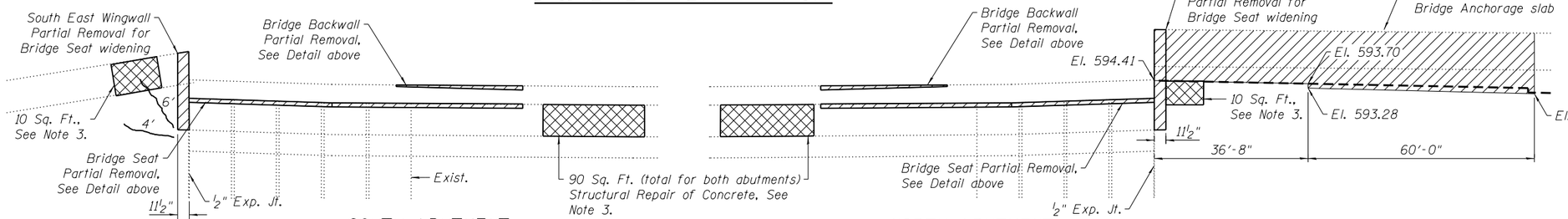


BRIDGE SEAT RECONSTRUCTION



SOUTH ABUTMENT PARTIAL ELEVATION

Showing Concrete Removal and Repairs

NORTH ABUTMENT PARTIAL ELEVATION

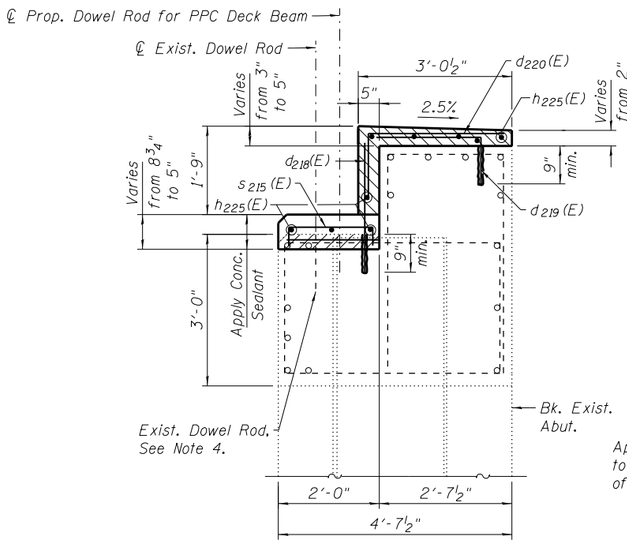
Showing Concrete Removal and Repairs

LEGEND:

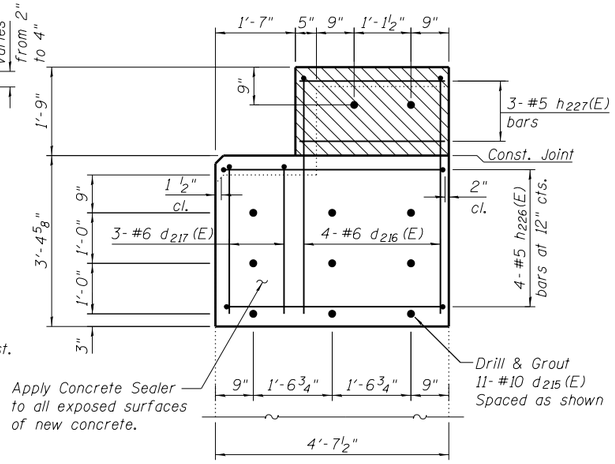
- Indicates Concrete Abutment and Retaining Wall Removal Area
- Indicates Concrete to be poured after PPC Deck Beams are in place with transverse tie assembly and dowel rods installed. The cost is included with Concrete Superstructure.
- Indicates Structural Repair of Concrete (Depth Equal to or Less than 5 inches)
- 6' Crack to be repaired using Epoxy Crack Injection (6 ft. long)

Notes:

1. Drill and epoxy grout bars into existing structure according to Section 584 of the Standard Specifications. The cost of drilling and grouting included with Concrete Structures.
2. Existing reinforcement shall be cleaned and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal operations shall be repaired or replaced using an approved bar splicer or anchorage system. Cost included with Concrete Removal.
3. The quantity of Structural Repair of Concrete is based on the Bridge Condition Report. The areas of concrete repair on abutments are located between underpass lighting conduits and the bridge seat. The exact quantity and locations will be determined by the Engineer during construction. Any necessary removals, relocation, temporary support, and reinstallation of the lights and appurtenances shall be included in the cost for concrete removal.
4. The existing dowel rods shall be burned or cut flush with the existing bearing seat, ground smooth and sealed with epoxy. The cost of this work shall be included with Concrete Removal.



SECTION A-A

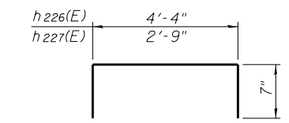


SECTION B-B

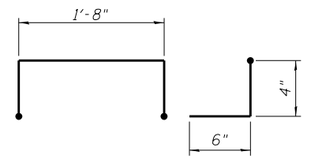
BAR d215(E)

BAR d216(E) & d217(E)

BAR h226(E) & h227(E)



BAR s215(E)



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d215(E)	22	#10	3'-6"	L
d216(E)	8	#5	7'-8"	L
d217(E)	6	#5	5'-10"	L
d218(E)	64	#5	2'-9"	——
d219(E)	64	#5	3'-9"	L
d220(E)	64	#5	4'-3"	L
h225(E)	32	#5	17'-11"	——
h226(E)	8	#5	5'-6"	⊓
h227(E)	6	#5	3'-11"	⊓
s215(E)	50	#5	3'-4"	⊓,⌋
Concrete Removal		Cu. Yd.	29.2	
Concrete Structures		Cu. Yd.	4.2	
Concrete Superstructure		Cu. Yd.	16.7	
Reinforcement Bars, Epoxy Coated		Pound	2,000	
Concrete Sealer		Sq. Ft.	89	
Epoxy Crack Injection		Foot	10	
Structural Repair to Concrete (Depth Equal to or Less than 5 inches)		Sq. Ft.	110	

Total for both abutments.

COLLINS ENGINEERS 123 N. Wacker Dr. Suite 900 Chicago, Il. 60606 Tele. (312) 704-9300 Fax (312) 704-9320 www.collinsengr.com
ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-000993

USER NAME =	DESIGNED - EKM	REVISED
	CHECKED - LDB	REVISED
PLOT SCALE =	DRAWN - PRH	REVISED
PLOT DATE =	CHECKED - EKM	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT REPAIRS AND SEAT RECONSTRUCTION
STRUCTURE NO. 016-2573
SHEET NO. ST20 OF ST30 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	0303-474HB-R	COOK	368	302
		CONTRACT NO. 60F63		
	ILLINOIS FED. AID PROJECT			