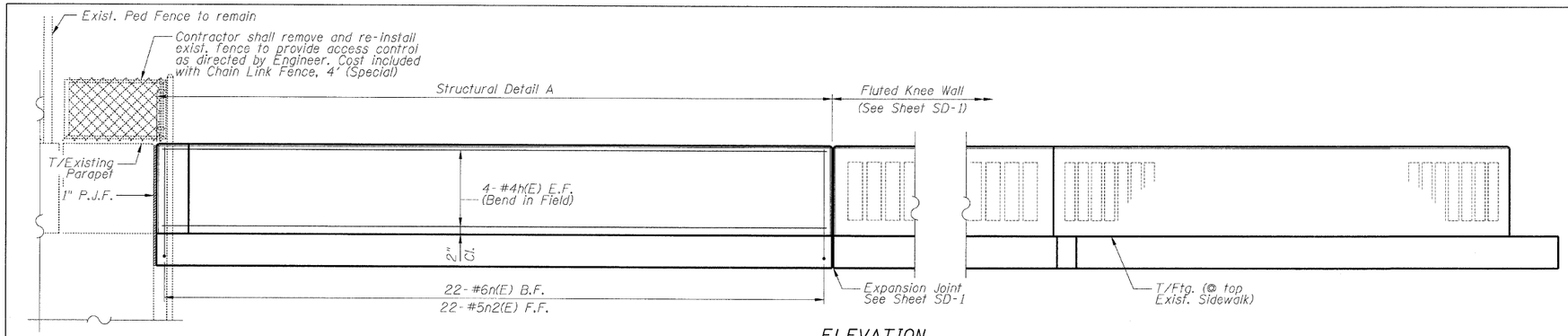
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	•	COOK	37	18
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

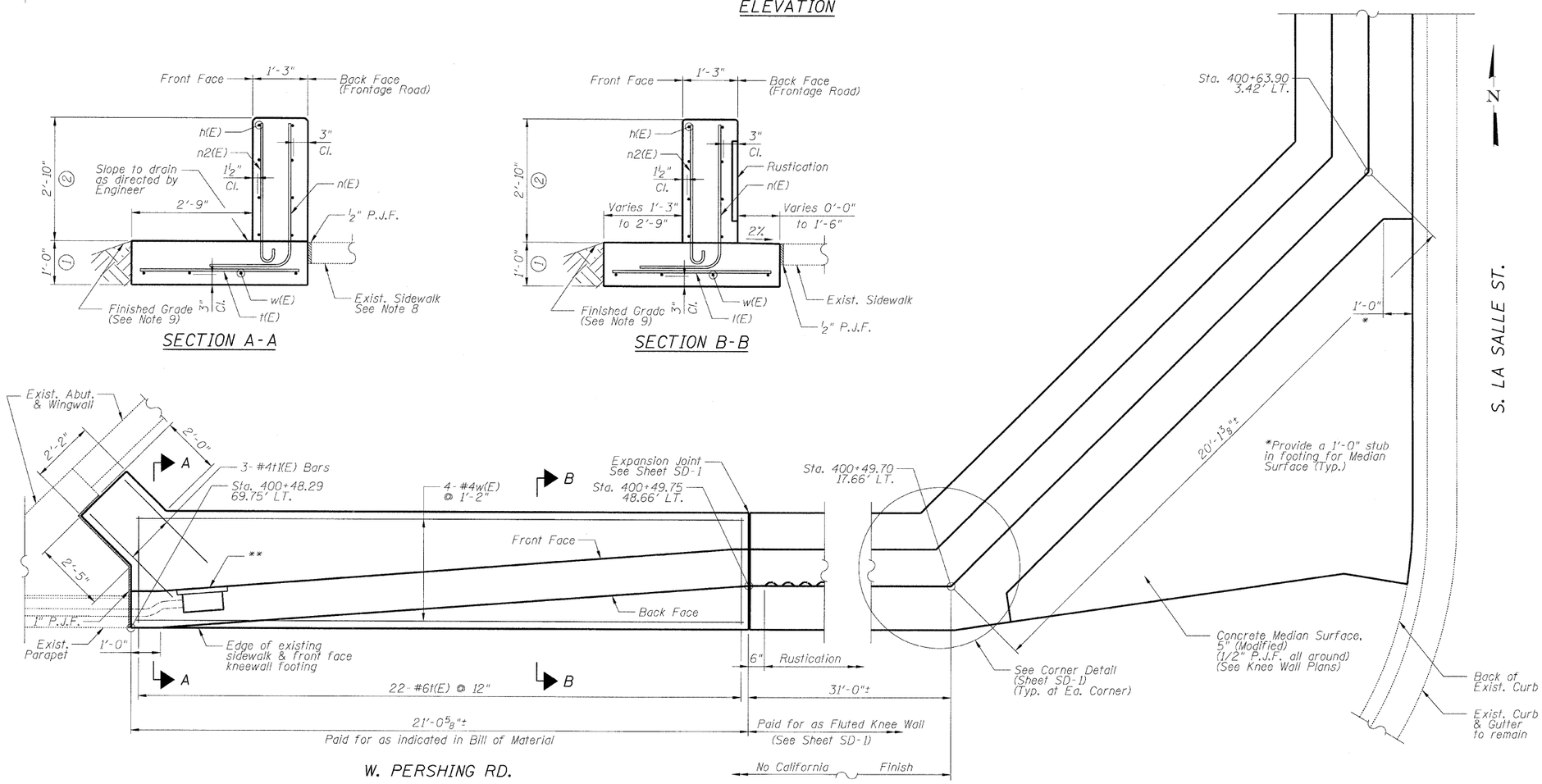
62992 • (2323.6-2P&2324.6-1P)I



ELEVATION

SECTION A-A

SECTION B-B



PLAN

** Contractor shall provide a stainless steel junction box and cover flush with the front face of Knee Wall and extend exisitng conduit from end of exiting parapet as directed by the Engineer. Cost incidental to Concrete Superstructures

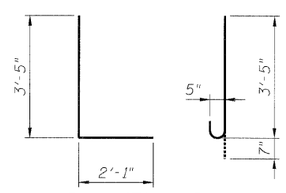
DETAIL A REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	8	#4	20'-9"	
n(E)	22	#6	5'-6"	L
n2(E)	22	#5	4'-0"	
t(E)	22	#6	3'-8"	
t1(E)	3	#4	4'-0"	
w(E)	4	#4	20'-8"	

	Item	Unit	Qty.
1	Concrete Structures	Cu. Yd.	3.3
2	Concrete Superstructure	Cu. Yd.	2.8
	Reinforcement Bars, Epoxy Coated	Pound	570
	Protective Coat	Sq. Yd.	12

NOTES:

1. All stations and offsets measured from S. La Salle St. ℄.
2. Concrete: f'c = 3500 psi
3. Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details.
4. At locations where Fluted Knee Wall abuts a rigid Structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
5. Apply Protective Coat to top and front face of stem and top of Frontage Road side of foundation.
6. For Fluted Knee Wall standard details, see Sheet SD-1
7. B.F. = Back Face (Frontage Road Side)
   F.F. = Front Face (Expressway Side)
   E.F. = Each Face
8. Saw cut sidewalk along removal line full depth to provide neat line.
9. Shape finished grade as required to match existing conditions.
10. P.J.F. included in cost of concrete structures.



Bar n(E) Bar n2(E)

SHEET SD-2

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbandainc.com

REVISIONS	
NAME	DATE
REVISED	3-6-08

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94/90 (DAN RYAN EXPRESSWAY)

NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

KNEE WALL DETAIL A

SCALE: N.T.S. DRAWN BY: PAH

DATE: 03/06/08 CHECKED BY: BLU

N:\660acad\dgn\HJE\SHEETS\660_3FSW502.dgn 7:47:41 PM 3/6/2008