

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
55	99 (1&2) I-11	WILL	176	98
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

Drilled Shaft Mark	Cent. East Frntg. Rd. (Exist.) Station	Offset	Est. Ground Surface Elev.	Est. T/Rock Elev.	T/Drilled Shaft in Soil Elev.	B/Drilled Shaft in Soil Elev.	T/Permanent Casing	B/Permanent Casing	Vertical Bar	Spiral Bar	Dowel Bar	Drilled Shaft Length in Soil (ft.)	Permanent Casing Length (ft.)
DS1	392+14.74	23'-10" LT	593.2	566.1	592.6	566.1	592.6	566.1	14- #8v1	1- #5sp1	14- #8n(E)	26.5	26.5
DS2	391+64.74	23'-10" LT	592.6	564.3	592.6	564.3	592.6	564.3	14- #8v2	1- #5sp2	14- #8n(E)	28.3	28.3

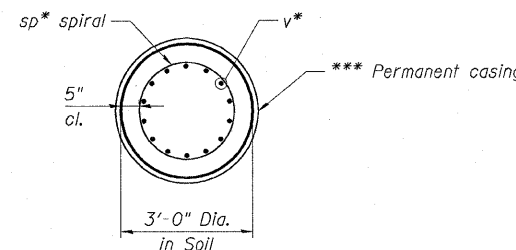
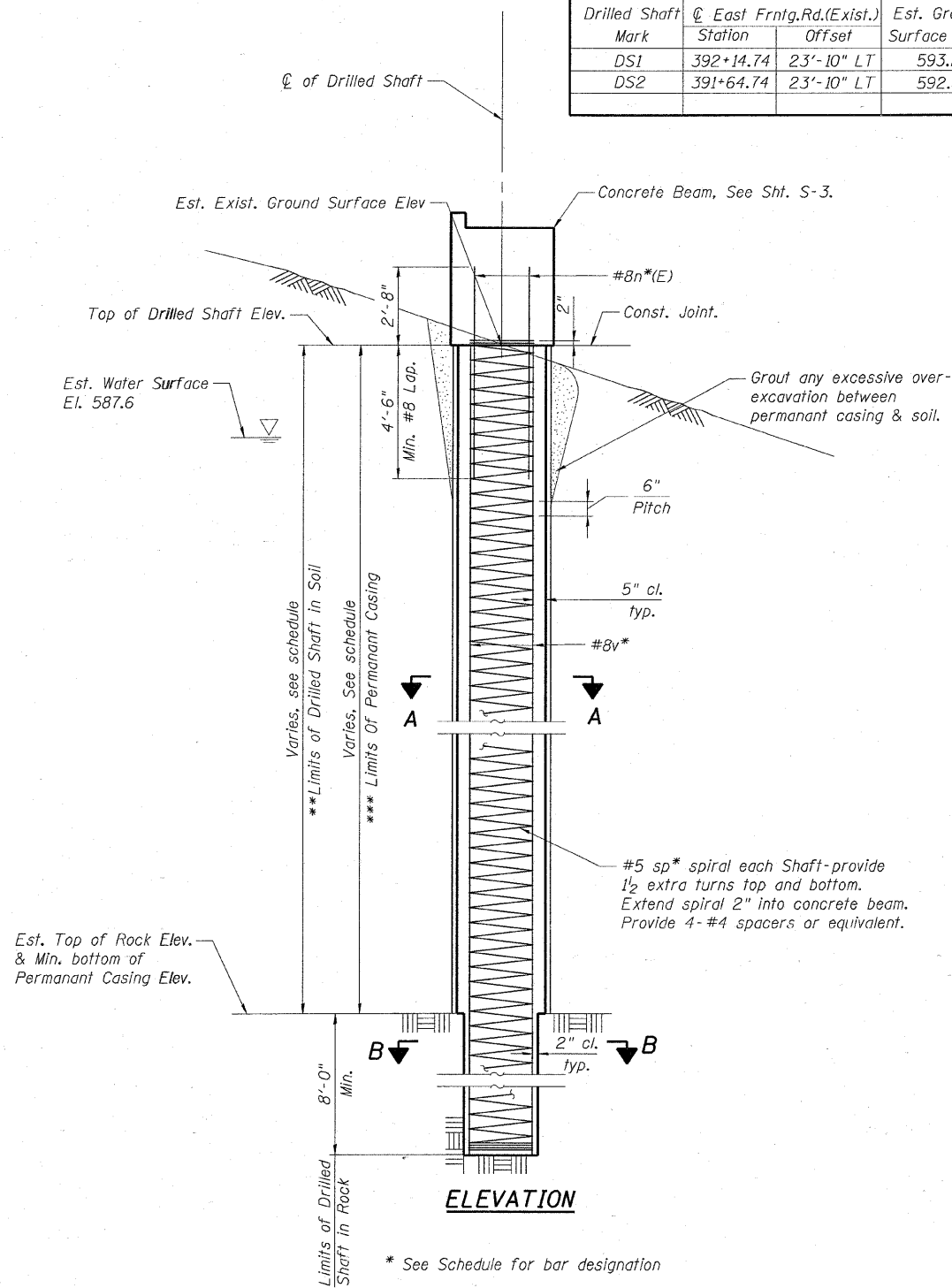
BAR LIST

Bar	No.	Size	Length	Shape
n(E)	28	#8	7'-2"	—
sp1	1	#5	34'-8"	~
sp2	1	#5	36'-6"	~
v1	14	#8	34'-6"	—
v2	14	#8	36'-4"	—

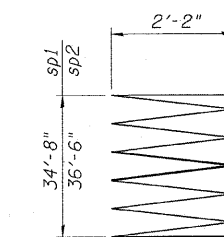
Minimum lap for spirals = 1 1/2 turns
 ** Length is height of spiral

BILL OF MATERIAL

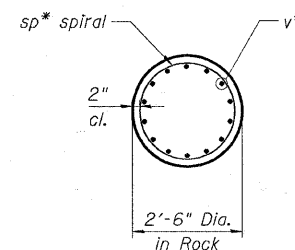
Item	Unit	Total
Reinforcement Bars	Pound	3,720
Reinforcement Bars, Epoxy Coated	Pound	540
Drilled Shaft in Soil	Cu. Yd.	14.4
Drilled Shaft in Rock	Cu. Yd.	2.9
Permanent Casing	Foot	54.8



SECTION A-A



SPIRAL BAR sp1 & sp2



SECTION B-B

* See Schedule for bar designation

** The quantities and reinforcement detailing are based on top of shaft and the estimated elevations shown and may change based on the actual elevations encountered at each shaft and the final top of shaft elevation.

*** Contractor is responsible for determining the casing thickness and the actual tip elevation to be used. See Article 516.06(d) of the Standard Specifications. Pay limits for the permanent casing shall be based on the minimum length shown.

SHT. S-4 OF S-6

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 FAI ROUTE 55 (BLACK ROAD TO U.S. ROUTE 30)
 NOISE ABATEMENT WALLS
 NOISE WALL OVER SUNNYLAND DRAIN AT EAST FRONTAGE ROAD
 S.N. 099-0032, STA. 391+89.74, SECTION 99 (1&2) I-11
 WILL COUNTY

DRILLED SHAFT FOUNDATION DETAILS

SCALE: DRAWN BY CB
 DATE 02/06/09 CHECKED BY BKG

TENG TENG & ASSOCIATES, INC.
 ENGINEERS/ARCHITECTS/PLANNERS
 CHICAGO, ILLINOIS

PLOT DATE = #DATE#
 PLOT SCALE = #SCALE#
 USER NAME = #USER#