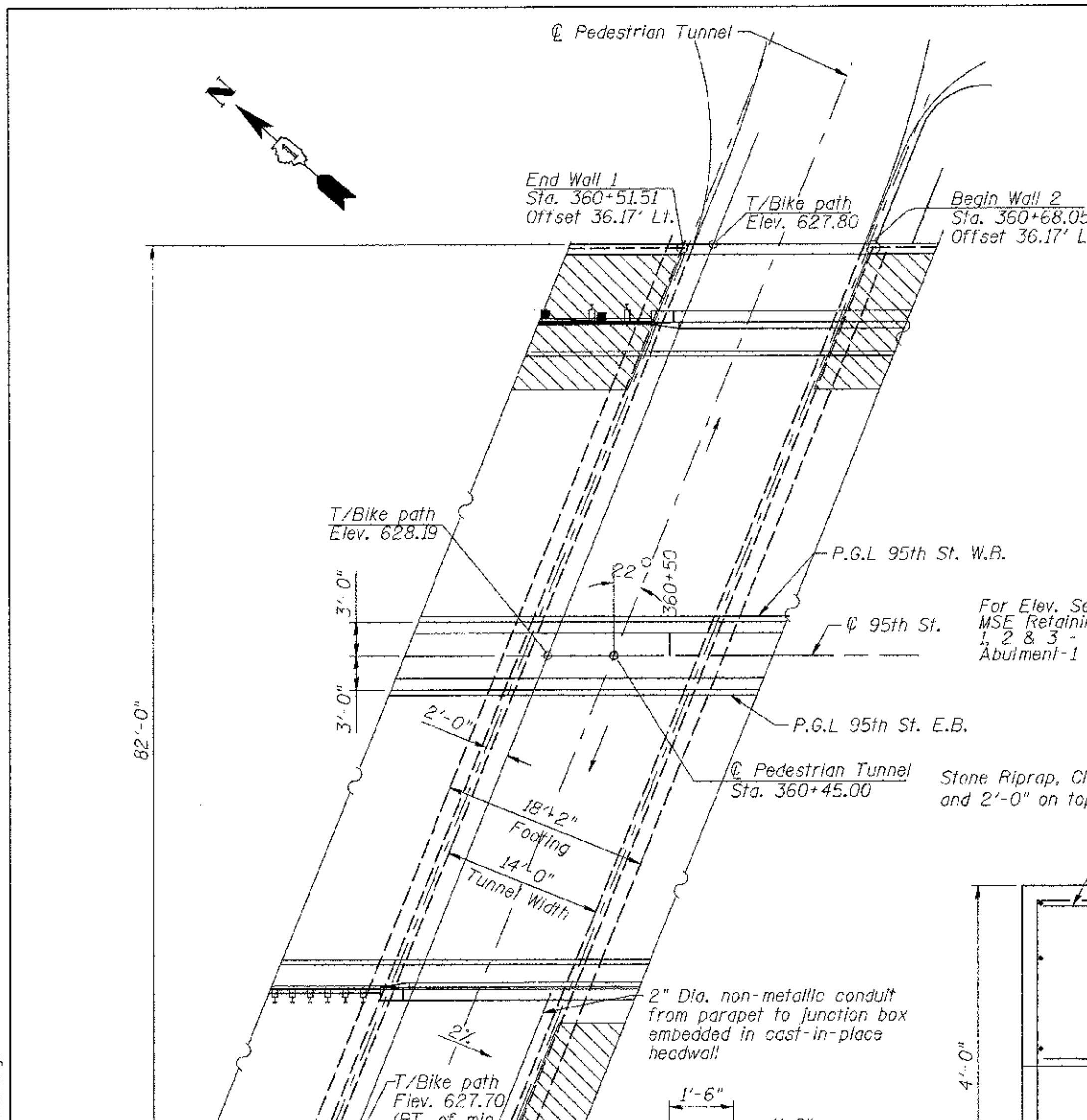
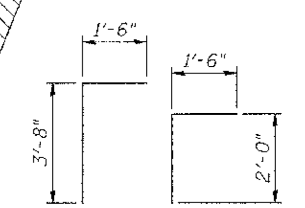
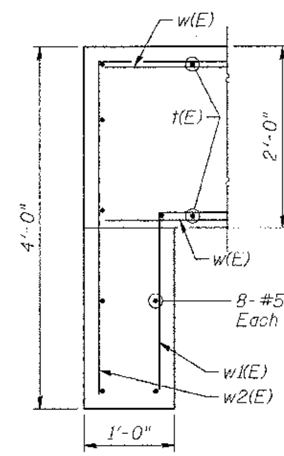


PLAN

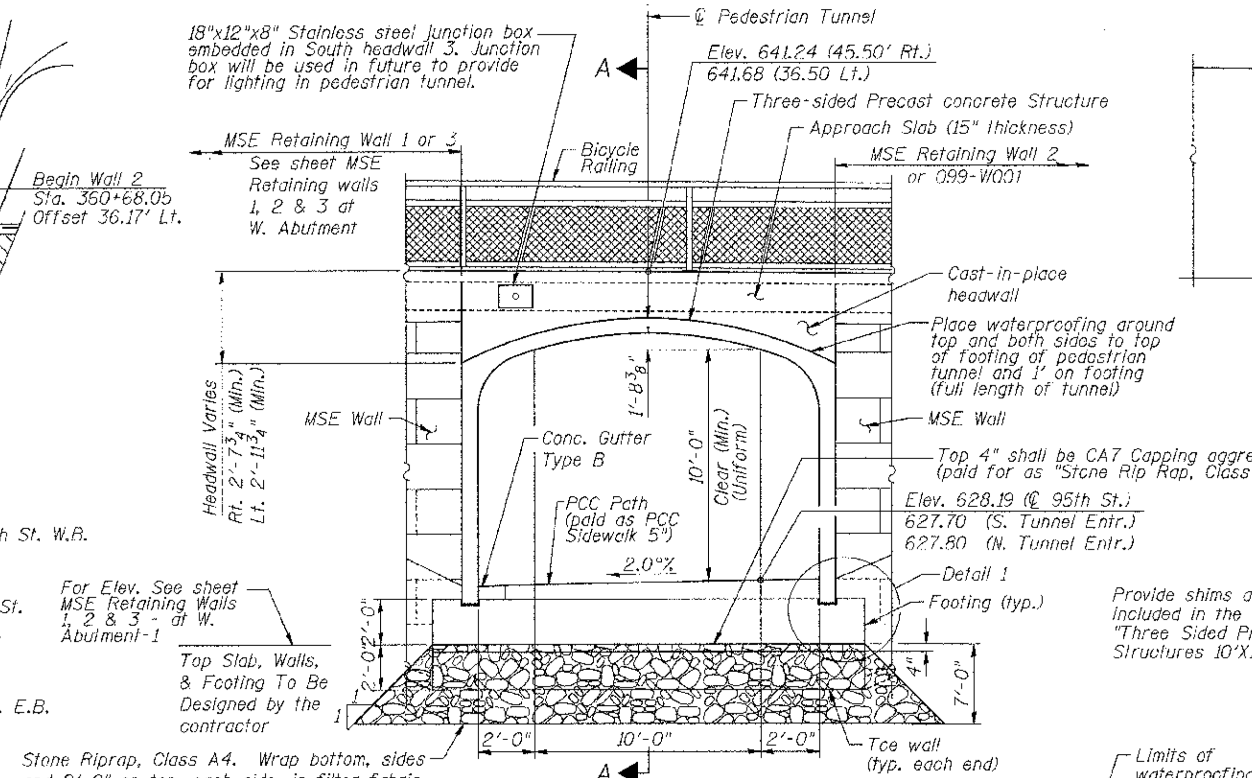
See sheet Retaining Wall Plan and Elevation 2 Structure Nos. W001 and W002 for limits of removal of unsuitable material outside limits of the tunnel



BAR w1(E) BAR w1(E)



SECTION B-B

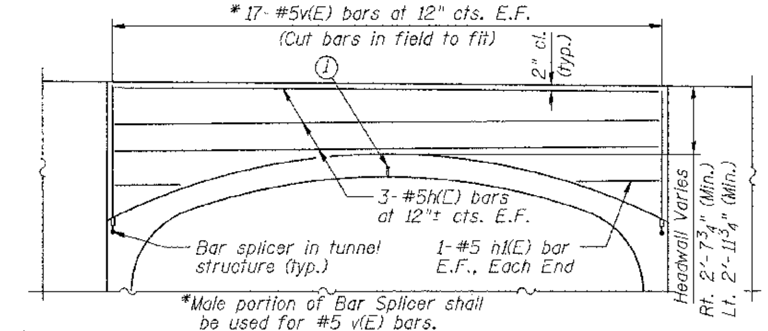


PEDESTRIAN TUNNEL ELEVATION

(Looking South)

Horizontal dimensions are at right angles

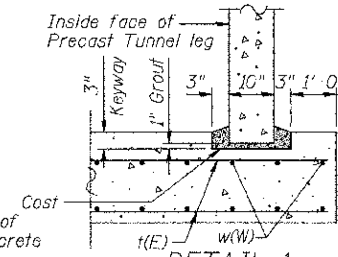
Note: Additional PCC Thickness for path to provide cross slope shall be considered included in the Cost of the item PCC Sidewalk 5".



*Male portion of Bar Splicer shall be used for #5 v(E) bars.

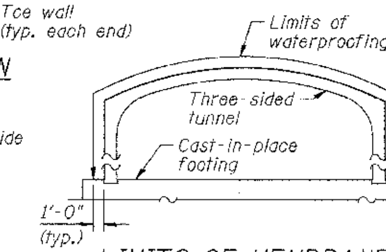
HEADWALL REINFORCEMENT

(Reinforcement is same for both headwalls)

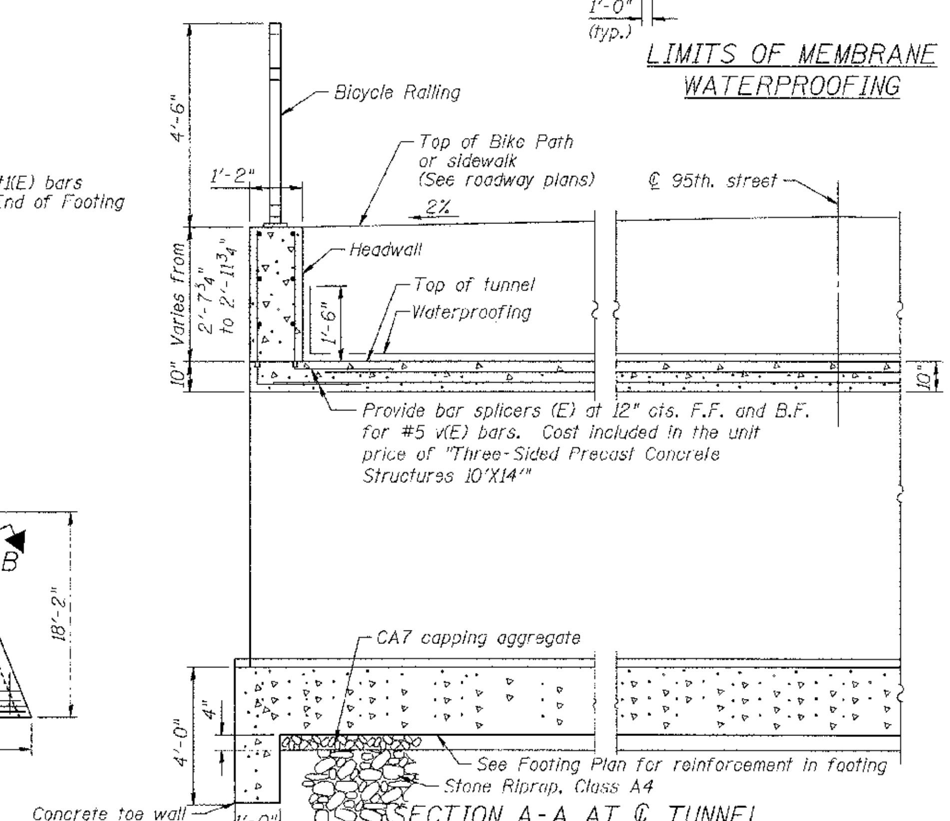


DETAIL 1

① Provide ½" ϕ epoxy threaded coil loop insert min. 4" embedment at maximum 5'-0" spacing for future conduit and light fixture support. Cost is included with "Three-Sided Precast Concrete Structures 10'X14'"

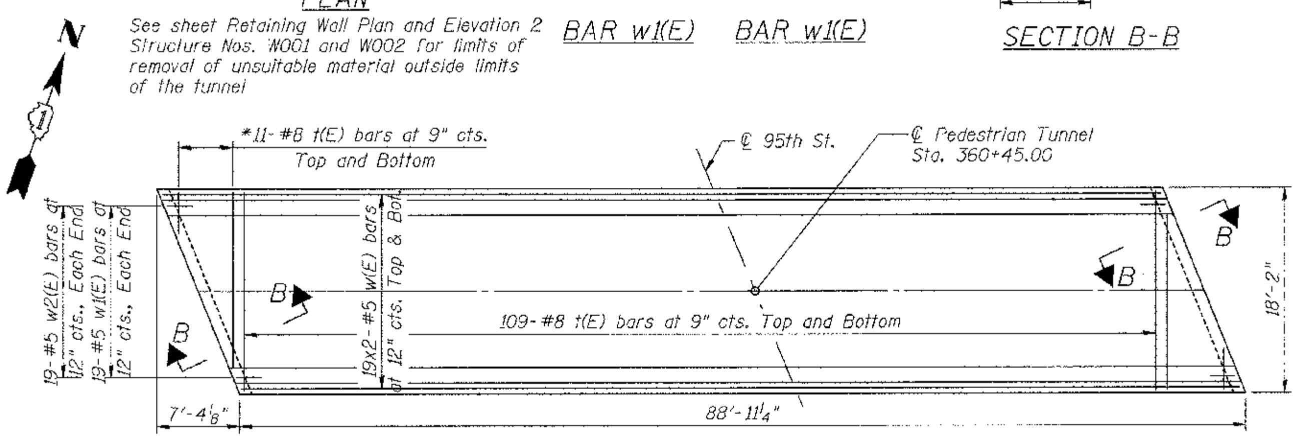


LIMITS OF MEMBRANE WATERPROOFING



SECTION A-A AT ℄ TUNNEL

(Dimensions shown are perpendicular to 95th Street centerline.)



FOOTING PLAN

* Order t(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes:

1. The option of using a precast footing is not allowed.
2. All exposed concrete edges shall be chamfered ¾" except as noted.
3. All construction joints shall be bonded.
4. Reinforcement Bars designated (E) shall be epoxy coated.
5. The footing is based on the following maximum service reactions applied at the top of the footing: 31 kips/ft. (vertical), 2 kips/ft. (horizontal). The Contractor shall verify that the selected structure meets these design parameters. If the design parameters are exceeded a complete footing design with calculations, details, and the required seals shall be submitted for review and approval.
6. The cost of backfill material and excavation necessary for the structure shall be included in the pay item Three-Sided Precast Concrete Structures 10'X14'. The backfill material shall be installed as noted in the provisions for Three-Sided Precast Concrete Structures 10'X14'. The backfill material gradation, compaction and installation method shall conform to the precast structure manufacturer's requirements.
7. Provide waterproof joint between headwall and tunnel.
8. The cost of providing waterproof joints and waterproofing the exterior surface of the Pedestrian Tunnel, as shown and as described in the Special Provisions, shall be included in the pay item Three-Sided Precast Concrete Structures 10'X14'.
9. Drilling of holes in precast tunnel will not be permitted.
10. See sheet MSE Retaining walls 1, 2 & 3 at w. abutment -1 for tunnel Key elevation.
11. Construct precast sections of pedestrian tunnel first, working up grade from ends toward center of tunnel to achieve tight leakproof fit between segments. Construct cast in place section of tunnel after all all precast segments have been installed.

BILL OF MATERIAL

Bar	Size	No.	Length	Shape
t(E)	#8	240	17'-10"	—
t1(E)	#5	16	19'-3"	—
w(E)	#5	76	45'-7"	—
w1(E)	#5	38	3'-6"	L
w2(E)	#5	38	5'-2"	L
h(E)	#5	12	16'-2"	—
h1(E)	#5	8	2'-1"	—
v(E)	#5	68	2'-9"	—
Concrete Structures			Cu. Yd.	124.7
Reinforcement Bars, Epoxy Coated			Pound	16,130
Three-Sided Precast Concrete Structures 10'X14'			Foot	89
Conduit Embedded In Structure, 2" dia., PVC			Foot	16
Junction Box, Stainless Steel, Embedded In Structure, 18"x12"x8"			Each	1
Stone Riprap, Class A4			Ton	954
Filter Fabric			Sq Yd	553

URS
100 S.WACKER DR. SUITE 500
CHICAGO IL 60606
TEL (312)939-1000
FAX (312)939-4198

USER NAME = %STB%	DESIGNED - STB	REVISED -
	CHECKED - NPP	REVISED -
PLOT SCALE = 8x8 '1' / IN.	DRAWN - SOI	REVISED -
PLOT DATE = 10/16/2012	CHECKED - NPP	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PRECAST TUNNEL DETAILS
STRUCTURE NO. 099-3035

SHEET NO. 31 OF 38 SHEETS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1644	01-00181-00-FP	WILL	328	189
		CONTRACT NO. 63647		
		ILLINOIS FED. AID PROJECT		