Total Bill of Material

ITEM	UNIT	QTY
Drilled Shaft In Soil	Cu. Yd.	2***
Chain Link Fence, 6'	Foot	16
Chain Link Gates, 5'x6' Single	Each	2
Underground Conduit, Galvanized Steel 2" Dia	Foot	60
Conduit Attached to Structure, 2" Dia, Galvanized Steel	Foot	55
Unit Duct, 600V, 3-1C No.1 1/C No. 1 Ground (XLP-Type Use), 2" Dia Polyethylene	Foot	50*
Procurement and Installation of RWIS	Lu. Sum	1

Notes:

*May vary depending on relocated Power Pole location (45' min. separation - See Note 5 below)

***Contractor to follow all applicable provisions of Article 516 of the Standard Specifications for Road and Bridge Construction in Illinois (2012 Edition). Quantity based off of 9' depth min. See Special Provisions for Contractor design information.

Tower foundation and Service Pad concrete strength per Standard Specifications Article 516.

Notes:

1) Contractor shall procure the RWIS per the Special Provisions.

2) Contractor shall install the RWIS per the Vaisala manufacturer's instructions/recommendations included in the Special Provisions.

3) Contractor shall provide all breaker box components, communication service and grounding complete as per the manufacturer recommendations including all labor and materials for the conduit and wiring of the connections and all permitting fees.

4) Tower foundation shall be paid for as Drilled Shaft in Soil. Service pad, welded wire fabric and joints to be included in the cost for Drilled Shaft in Soil.

5) Existing power pole at STA 205+87.62 (LT) to be relocated by others. Contractor to coordinate power-drop location with Com-Ed following power pole relocation. Power pole must be at least 45' from the Tower per manufacturers recommendation ($1\frac{1}{2}$ x the tower height (30'), thus 1.5 x 30' = 45').

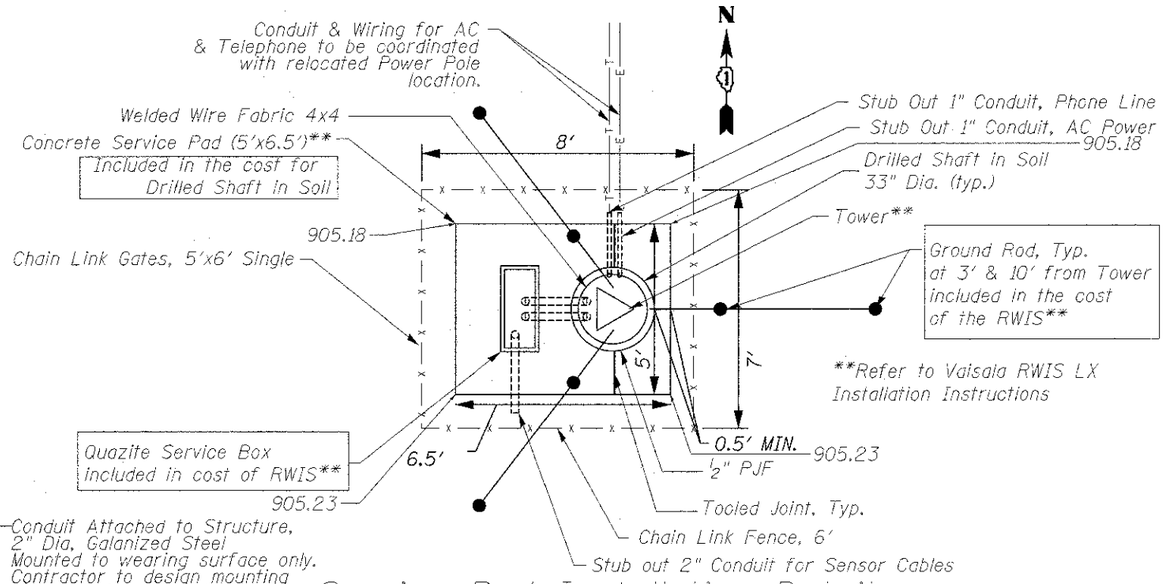
6) Contractor to coordinate with the Engineer for land line phone service for RWIS.

7) Stream Gauge including all labor, material, and appurtances for mounting & connection shall be included in the Unit Cost for the Procurement and Installation of RWIS.

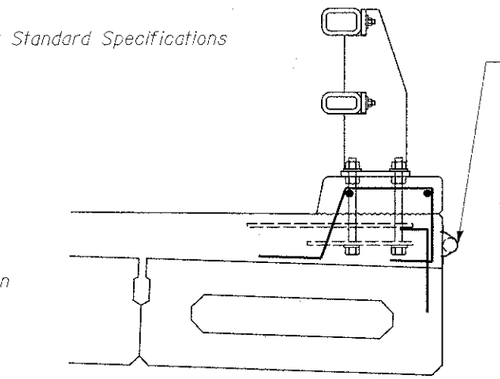
8) Welded Wire Fabic in Pad shall be epoxy-coated.

9) The contractor shall locate the SERVICE INSTALLATION - POLE MOUNTED on the ComEd pole closest to the RWIS. The service will be Type A as described in the Standard Specifications. All communication connections, materials and labor shall be included with this pay item. The communications and power from that ComEd pole shall be run underground to the RWIS, not aerial.

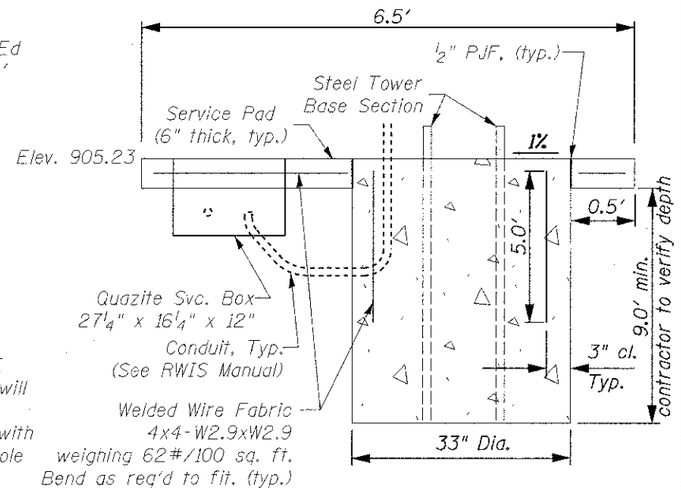
10) Contractor shall use embankment material 15 feet around proposed RWIS foundation and shall be compacted to 95% proctor density.



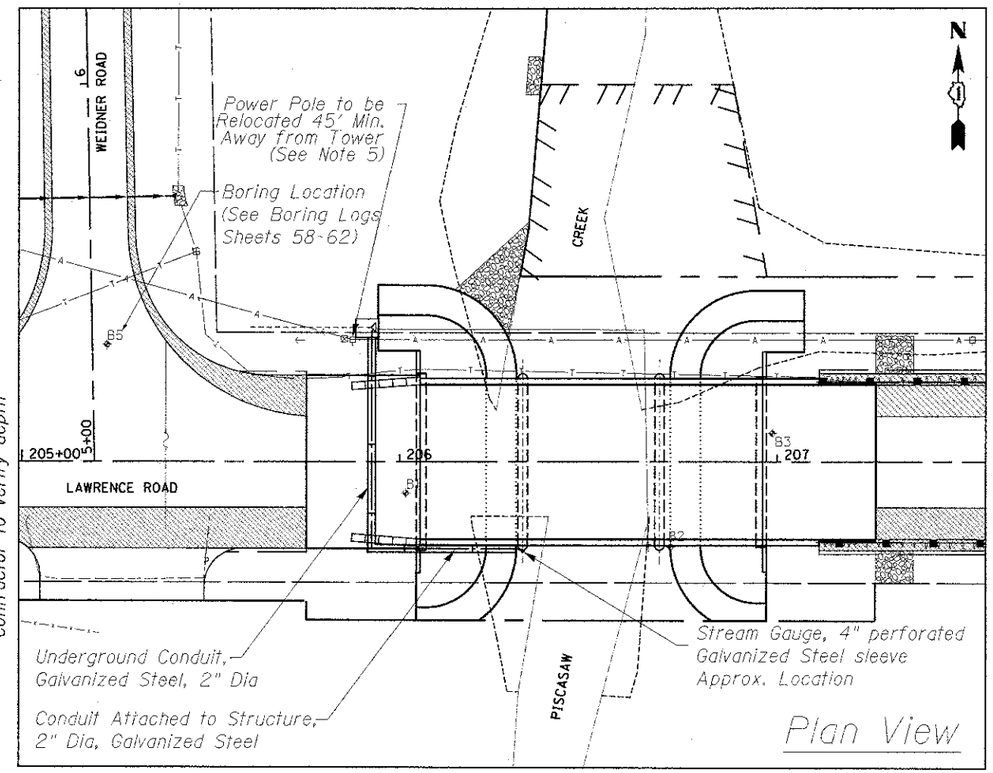
Service Pad Installation Detail



Section Thru Curb w/Conduit Mount



Tower Base, Service Pad Side View



Plan View

FILE NAME = W:\795-012 Lawrence Phase I\CAD SHEETS\795-012-rwis-Details-RWIS.dgn

Bollinger, Lach & Associates, Inc. ITASCA, ILLINOIS	USER NAME = gallwanger	DESIGNED - GJE	REVISED -
		DRAWN - GJE	REVISED -
	PLOT SCALE = 20.0000 ' / in.	CHECKED - CF	REVISED -
	PLOT DATE = 10/3/2012	DATE - 08/17/12	REVISED -

MCHENRY COUNTY DIVISION OF TRANSPORTATION

LAWRENCE ROAD BRIDGE OVER PISCASAW CREEK
R.W.I.S. DETAIL
SCALE: N.T.S. | SHEET NO. 67 OF 87 SHEETS | STA. | TO STA.

F.A.S RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
0028	08-00355-01-BR	MCHENRY	87	67
		CONTRACT NO. 63694		
		ILLINOIS FED. AID PROJECT		