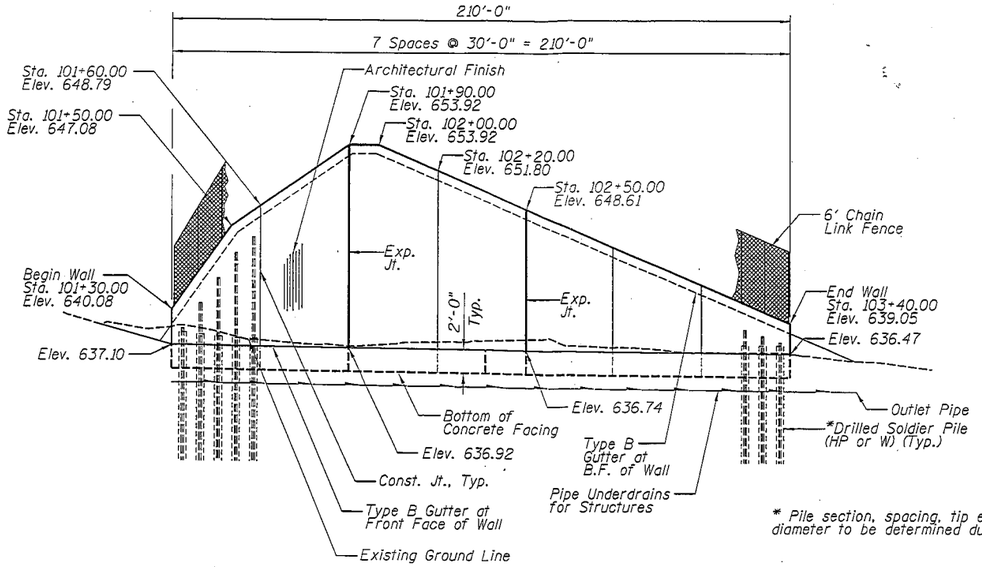
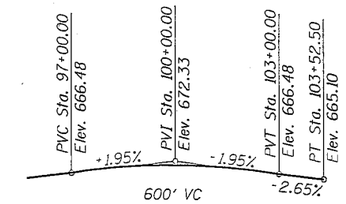
Bench Mark BM1: Located on southwest wingwall of the Willow Road Bridge (S.N. 016-0533) over Lehigh Avenue & Soo Line Railroad, Sta. 98+74.59, 40.03' Rt., Elev. 669.03

Existing Structure: None



ELEVATION

* Pile section, spacing, tip elevation and shaft diameter to be determined during final design.



PROFILE GRADE
(located at 9.0' off of ℄ Willow Road)

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications 6th Edition with 2012 Interims

DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
f_y = 60,000 psi (reinforcement)
f_y = 50,000 psi (M270 Grade 50)

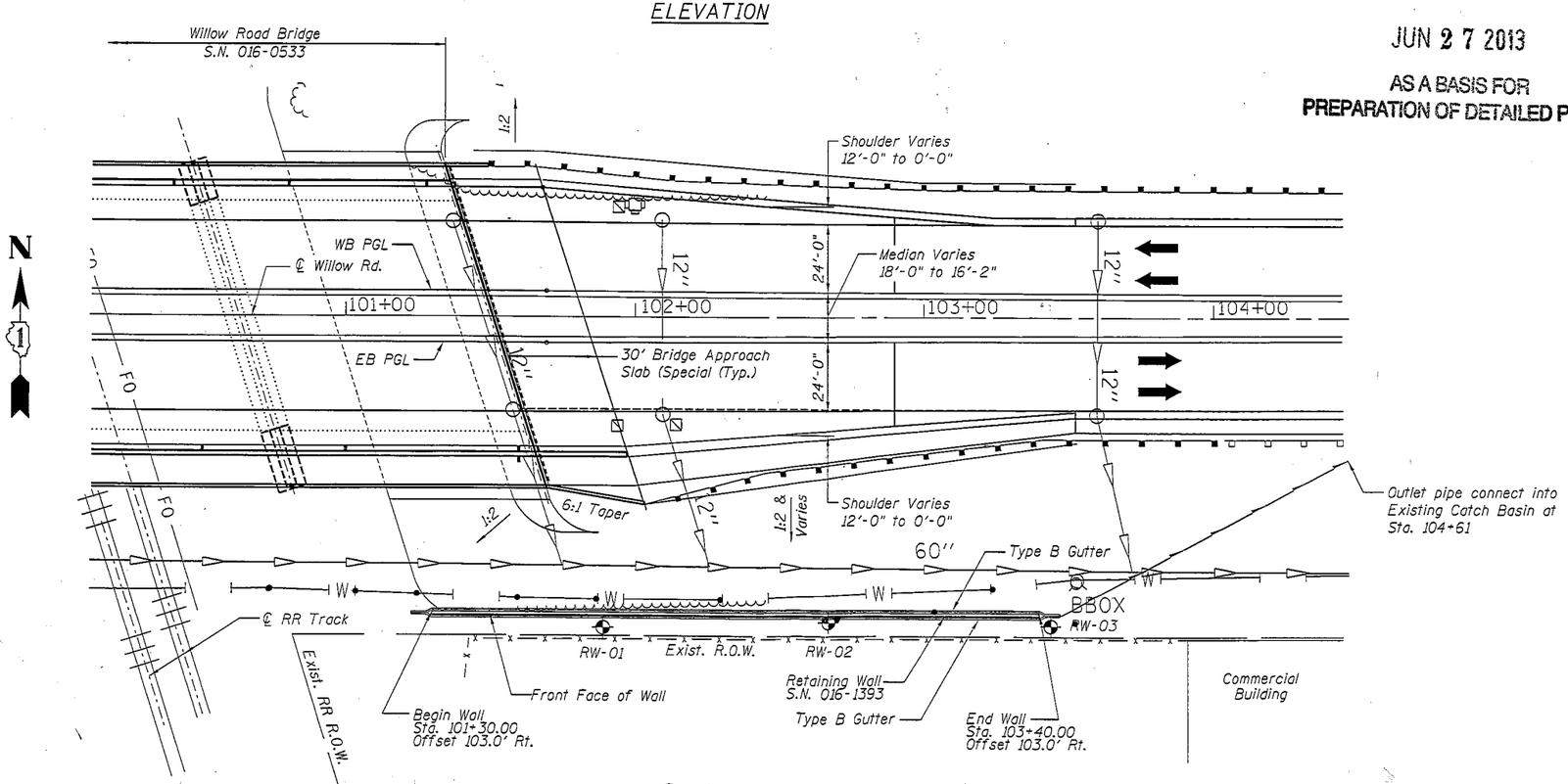
APPROVED

JUN 27 2013

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

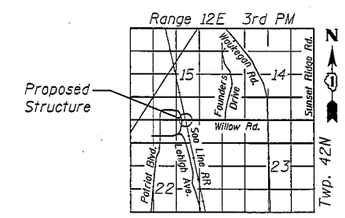
HIGHWAY CLASSIFICATION

Route: FAP 305 (Willow Road)
Functional Class: Other Principal Arterial
ADT: 35,400 (2006), 50,200 (2020)
DHV = 1475
ADTT = 9%
Design Speed: 45 mph
Posted Speed: 45 mph
Directional Distribution: 50/50
Two Way Traffic



PLAN

Note:
Offsets are measured from ℄ Willow Road to the front face of wall.



LOCATION SKETCH

GENERAL PLAN
WILLOW ROAD
FAP 305 SEC. 1920.01-BR
COOK COUNTY
STA. 101+30 TO STA. 103+40
STRUCTURE NO. 016-1393

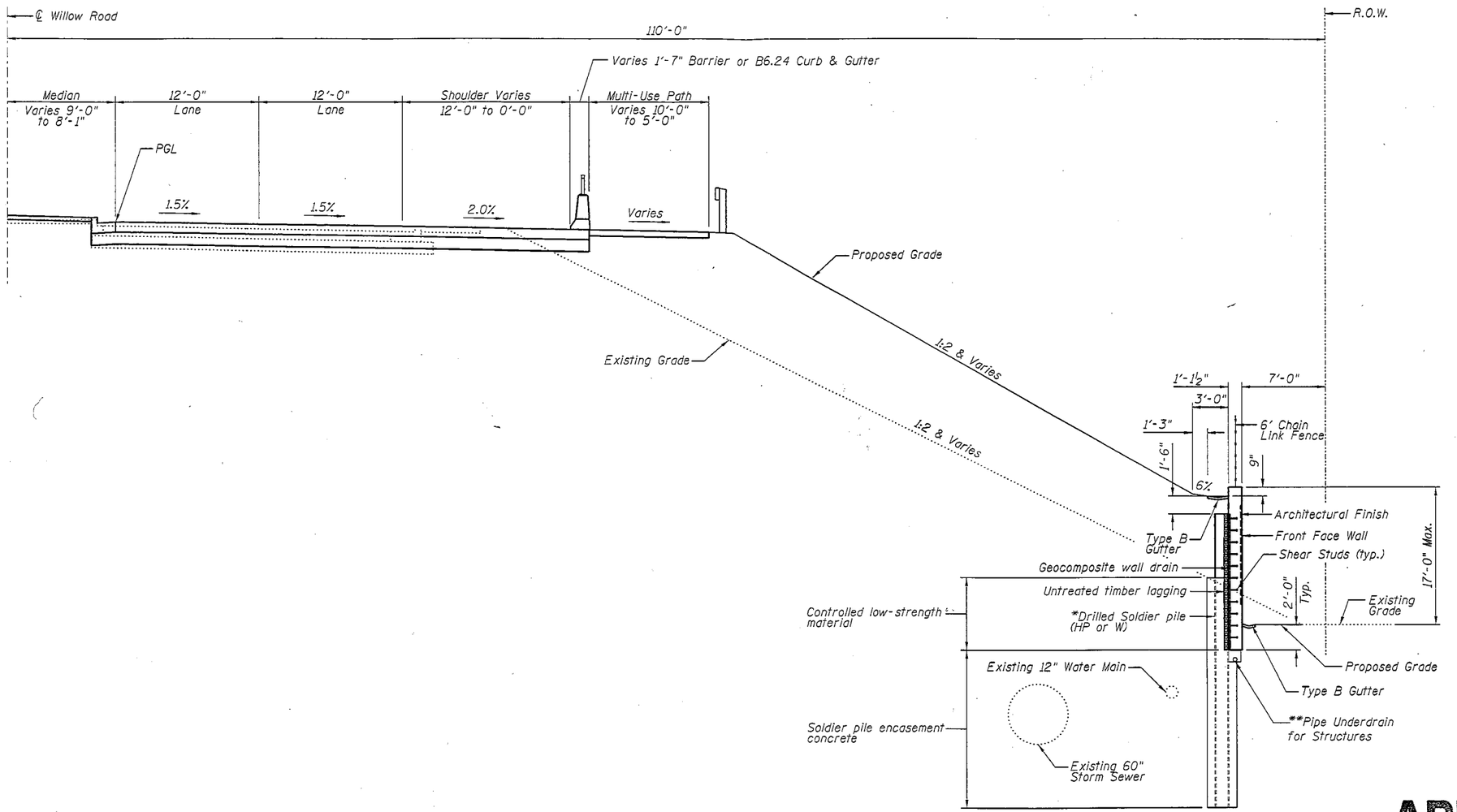
FILE NAME = ...\016N03-SN016-1393-TSL1.dgn

ZROKA engineering — Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	USER NAME = SAW	DESIGNED - LAS	REVISED -
		CHECKED - DAZ	REVISED -
	PLOT SCALE = 50.0000 ' / in.	DRAWN - SAW	REVISED -
	PLOT DATE = 6/18/2013	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
S.N. 016-1393
SHEET NO. 1 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
305	1920.01-BR	COOK	2	1
		CONTRACT NO.		
	ILLINOIS FED. AID PROJECT			



* Pile section, spacing, tip elevation and shaft diameter to be determined during final design.

**Pipe Underdrain to outlet into Existing Catch Basin located at Sta. 104+61. Beyond the wall, the outlet pipe will be a solid 6"Φ minimum Schedule 80 PVC pipe.

TYPICAL SECTION
(Looking East)

APPROVED

JUN 27 2013

AS A BASIS FOR
PREPARATION OF DETAILED PLANS

FILE NAME = ...\D160N83-SN016-1393-TSL2.dgn

ZROKA engineering — Zroka Engineering, P.C. 4216 North Hermitage Chicago, IL 60613	USER NAME = SAW	DESIGNED - LAS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL SECTION S.N. 016-1393	F.A.P. RTE. 305	SECTION 1920.01-BR	COUNTY COOK	TOTAL SHEETS 2	SHEET NO. 2
		CHECKED - DAZ	REVISED -						CONTRACT NO.	
	PLOT SCALE = 10.0002 ' / in.	DRAWN - SAW	REVISED -							
	PLOT DATE = 6/18/2013	CHECKED - LAS	REVISED -		SHEET NO. 2 OF 2 SHEETS		ILLINOIS FED. AID PROJECT			