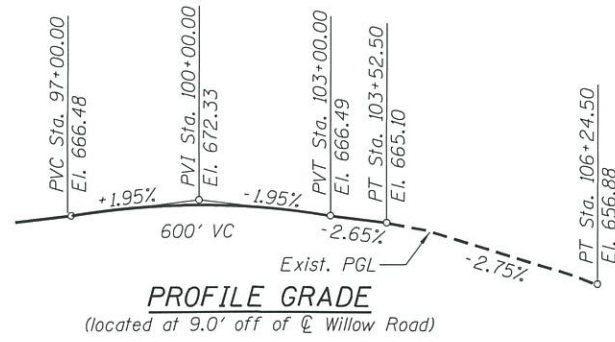


Bench Mark BM: Located on southwest wingwall of the Willow Road Bridge (S.N. 016-0533) over Lehigh Avenue & Soo Line Railroad, Sta. 98+74.59, 40.03' Rt., El. 669.03

Existing Structure: None



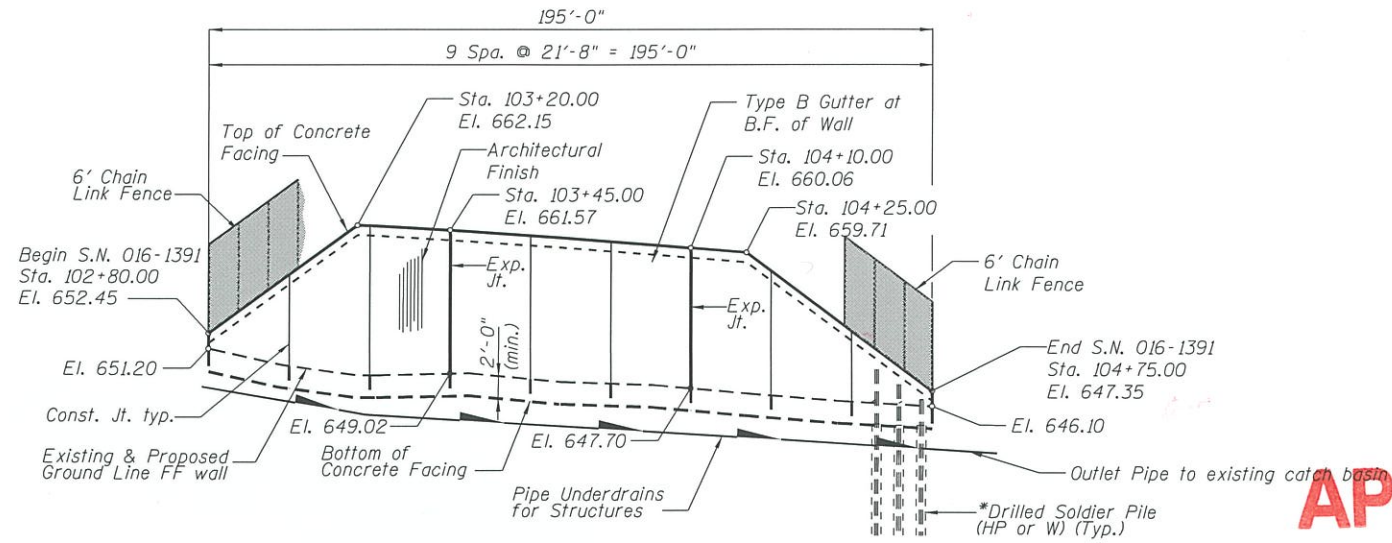
PROFILE GRADE
(located at 9.0' off of ϕ Willow Road)

DESIGN SPECIFICATIONS
2017 AASHTO LRFD Bridge Design Specifications, 8th edition

DESIGN STRESSES

FIELD UNITS

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



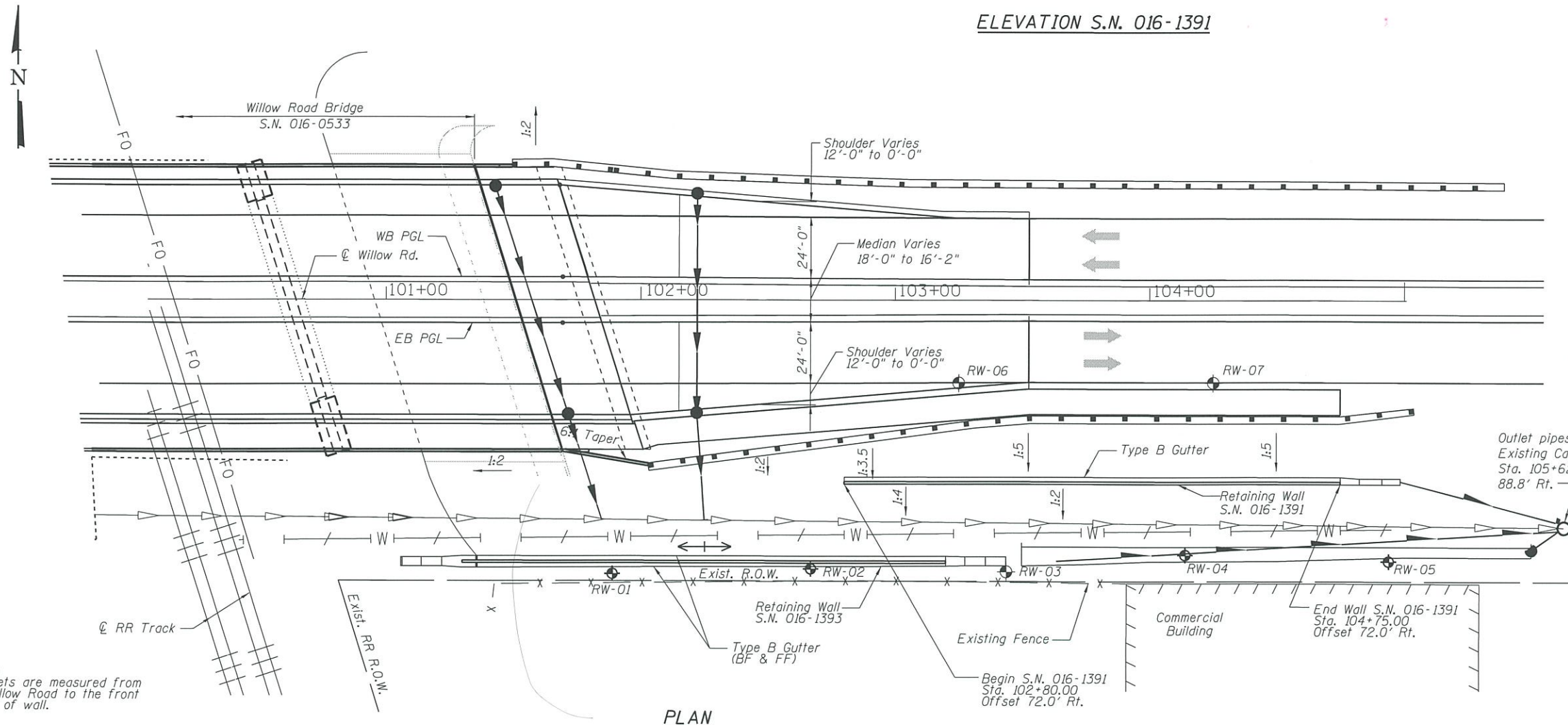
ELEVATION S.N. 016-1391

*The soldier pile wall will be anchored and the pile section, spacing, tip elevation and shaft diameter to be determined during final design.

APPROVED

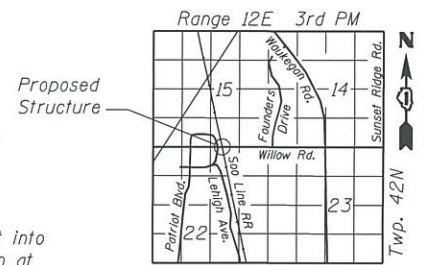
NOV 07 2018

AS A BASIS FOR
PREPARATION OF DETAILED PLANS



PLAN

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



LOCATION SKETCH

GENERAL PLAN
WILLOW ROAD
FAP 305 SEC. 1920.01-BR
COOK COUNTY
STA. 102+80 TO STA. 104+75
STRUCTURE NO. 016-1391



USER NAME = vscarpe
PLOT SCALE = 600.0000' / ft.
PLOT DATE = 11/1/2018

DESIGNED - LAS
CHECKED - LMS
DRAWN - TCS
CHECKED - LAS

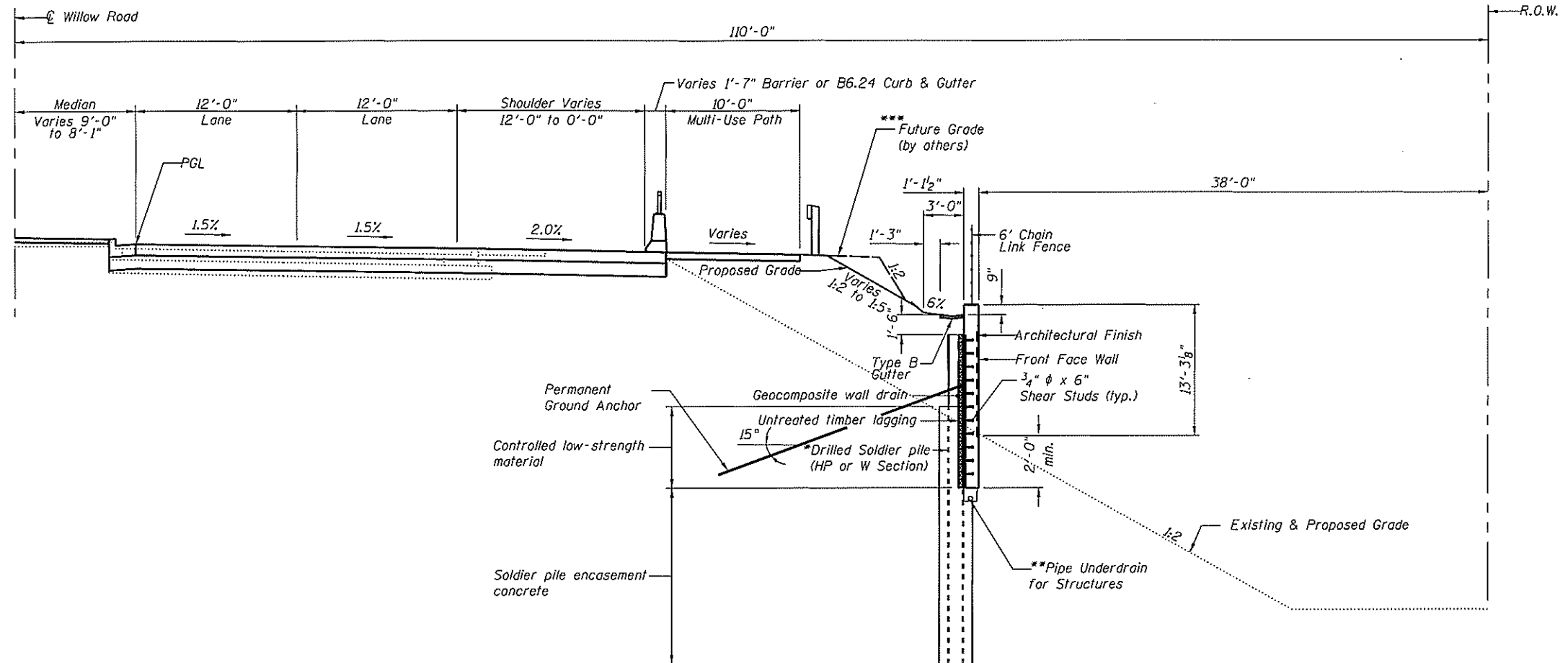
REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NUMBER 016-1391

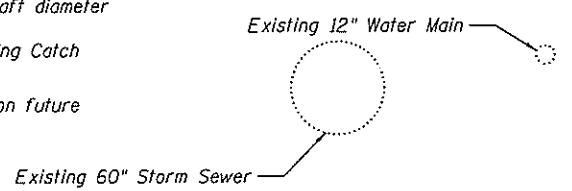
SHEET NO. 1 OF 2 SHEETS

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



TYPICAL SECTION
Sta. 102+80.00 to Sta. 104+75.00
(Looking East)

*The soldier pile wall will be anchored and the 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. 105+62.71.
*** Top of wall elevations are based on future roadway widening.



FILE NAME = P:\2015\9562 [00T] D1 Willow Rd over 500 Line RR Widening (PTB 159-171) (ADD Files) Revised (S&L) (No) Wall Alternates (016) (013-540) (E-1391) - TS, 2.dwg



USER NAME = vscorp	DESIGNED - LAS	REVISED -
	CHECKED - LMS	REVISED -
PLOT SCALE = 1/28.0011' / 1" =	DRAWN - TCS	REVISED -
PLOT DATE = 11/1/2018	CHECKED - LAS	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION
STRUCTURE NUMBER 016-1391
SHEET NO. 2 OF 2 SHEETS

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