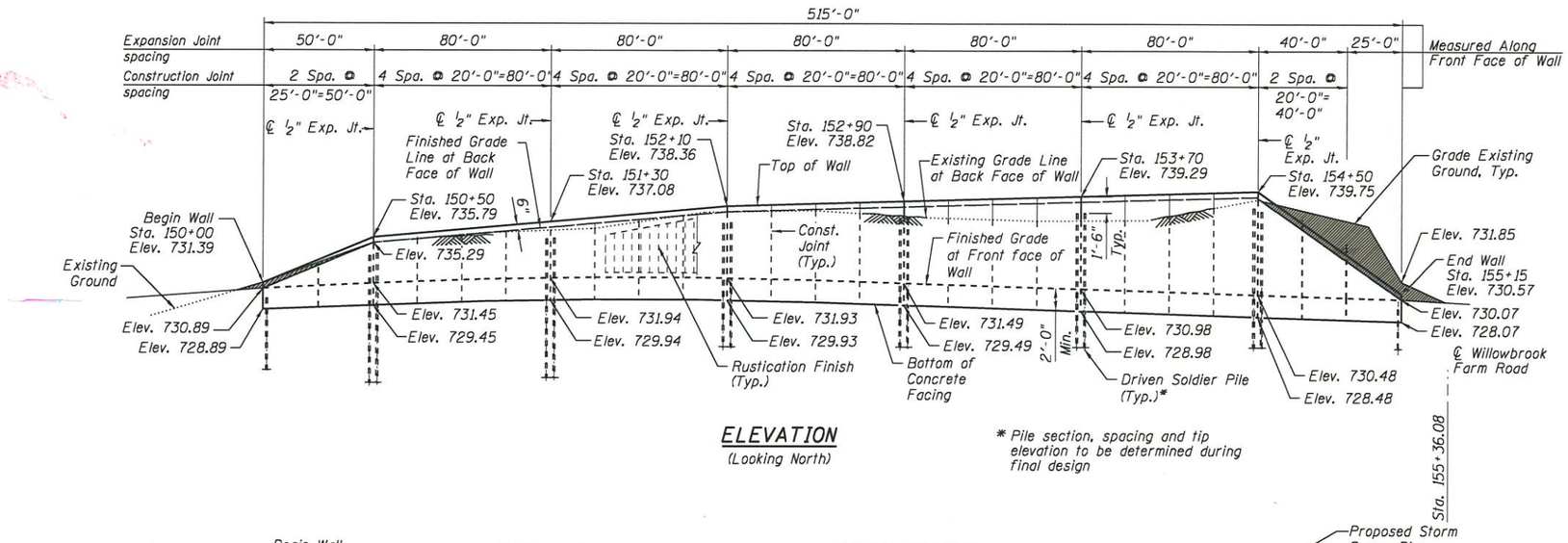
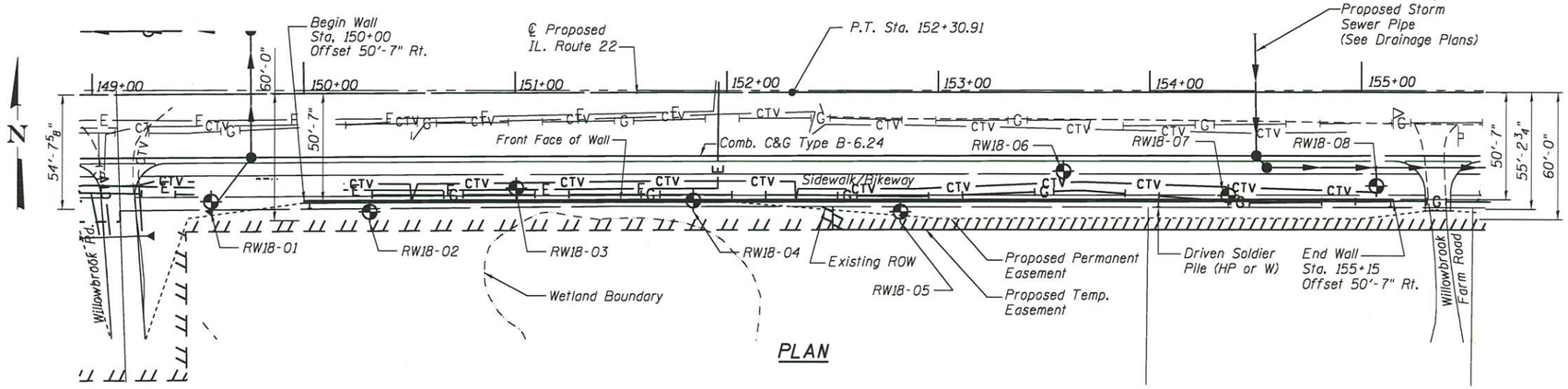
Bench Mark: C.P. #24 - P.K. Nail in shoulder of EB IL. Rte. 22 at east end of Guardrail. Approximate Sta. 113+55 (Elev. 755.10)

Existing Structure: None

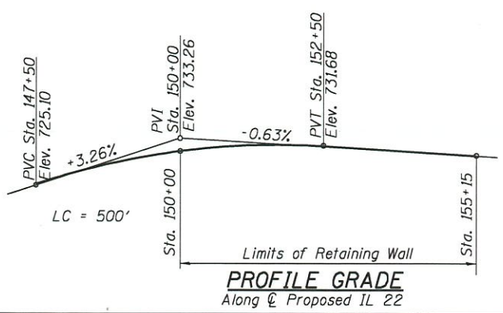


ELEVATION
(Looking North)

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



PLAN



PROFILE GRADE
Along ℄ Proposed IL 22

APPROVED

JUL 18 2018

AS A BASIS FOR PREPARATION OF DETAILED PLANS

DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017

DESIGN STRESSES

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (M270 Grade 50, Soldier Pile)

HIGHWAY CLASSIFICATION

F.A.P. Rte. 337 - IL Route 22
Functional Class: Other Principal Arterial
ADT: 21,400 (2013), 32,000 (2040)
ADTT: 825 (2013), 1,234 (2040)
DHV: 2,990 (2040)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.
2-Way Traffic
Directional Distribution: 50:50

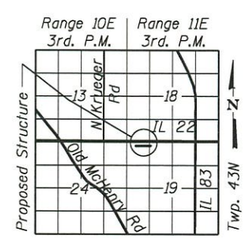
CURVE PR IL22-8 DATA

PI STA. = 148+59.72
Δ = 0° 51' 03" (RT)
D = 0° 06' 53"
R = 50,000.00'
T = 371.20'
L = 742.39'
E = 1.38'
P.C. STA. = 144+88.52
P.T. STA. = 152+30.91

LEGEND

- CTV - Underground Cable TV Line
- E - Underground Electrical Line
- G - Underground Gas Line
- T - Underground Telephone Line
- Underground Storm Sewer Line
- Exist. Underground Telephone Line
- Exist. Underground Sanitary Sewer Line
- Exist. Cable TV Manhole Line
- Exist. Utility Power Pole
- Catch Basin
- Existing Manhole
- Proposed Manhole
- Soil Boring
- Wall Rustication/Formed Liner

Note:
Wall offsets are measured from the ℄ of IL. Rte. 22 to the front face of wall.



LOCATION SKETCH

GENERAL PLAN & ELEVATION
RETAINING WALL NO. 18
ILLINOIS ROUTE 22
F.A.P. RTE. 337 - SEC 20-Y
LAKE COUNTY
STA. 150+00 TO STA. 155+15
STRUCTURE No. 049-W064

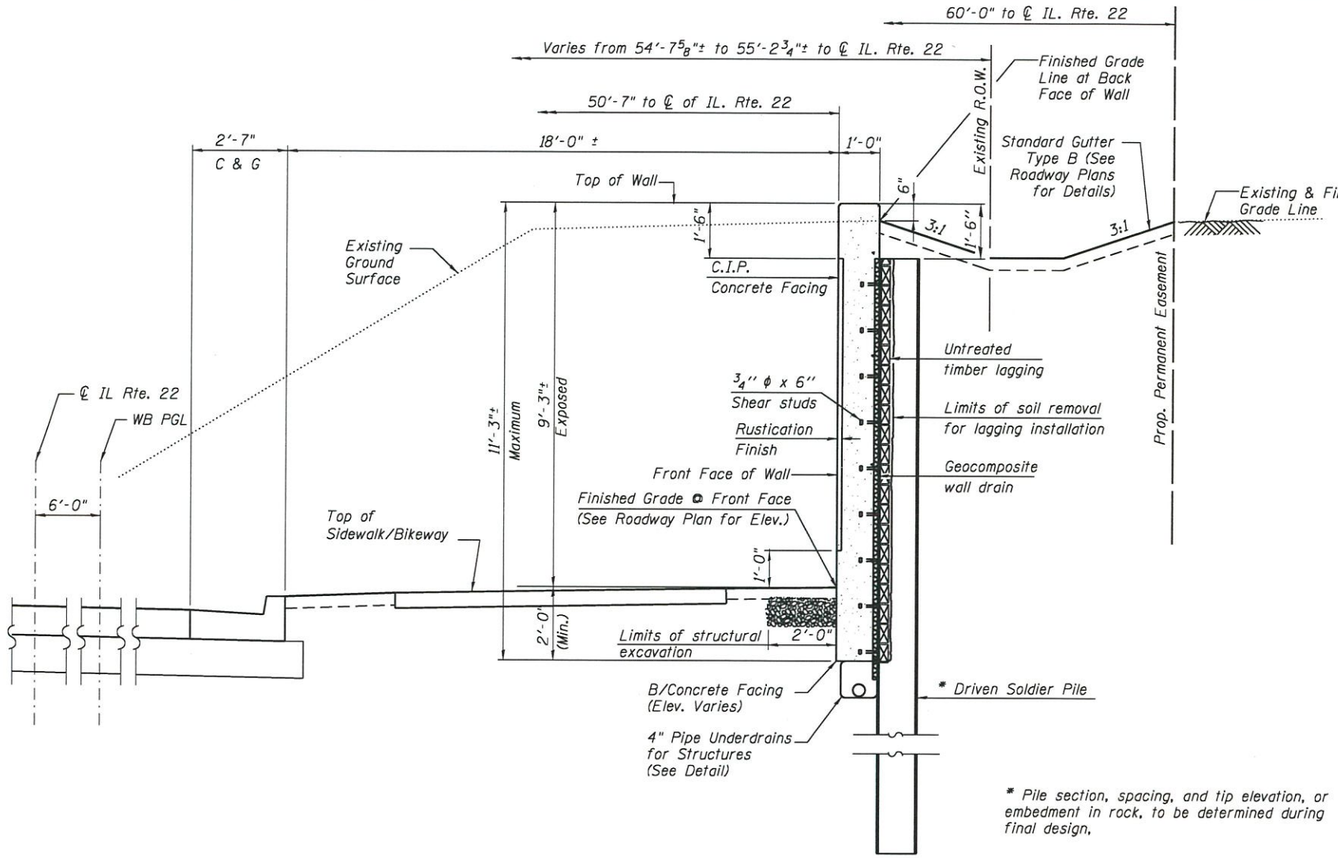
Primera
300 S. WACKER DRIVE SUITE 700 . CHICAGO, IL 60606 . P.312-986-9700 F.312-986-9745

USER NAME =	DESIGNED - JPM	REVISED	
	CHECKED - MMH/TPG	REVISED -	
PLOT SCALE =	DRAWN - MPS	REVISED -	
PLOT DATE = $DATE$	CHECKED - JPM/MMH/TPG	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

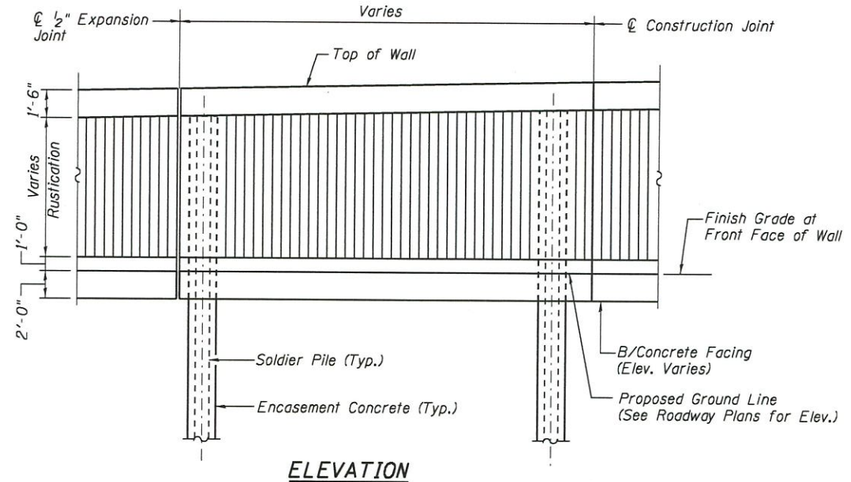
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20-Y	LAKE	$TOT	
		CONTRACT NO. 60N10		
		ILLINOIS FED. AID PROJECT		



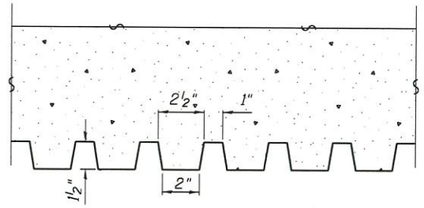
* Pile section, spacing, and tip elevation, or embedment in rock, to be determined during final design.

TYPICAL SECTION THRU SOLDIER PILE WALL

(Looking East)



ELEVATION
RUSTICATION FINISH DETAILS



RUSTICATION DETAIL

APPROVED
JUL 18 2018
AS A BASIS FOR PREPARATION OF DETAILED PLANS

Primera	USER NAME =	DESIGNED - JPM	REVISED	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SOLDIER PILE WALL DETAILS STRUCTURE NO. 049-W064	F.A.P. RTE. 337	SECTION 20-Y	COUNTY LAKE	TOTAL SHEETS $TOT	SHEET NO.
		CHECKED - MMH/TPG	REVISED -					CONTRACT NO. 60N10		
	PLOT SCALE =	DRAWN - MPS	REVISED -							
	PLOT DATE = $DATE$	CHECKED - JPM/MMH/TPG	REVISED -		SHEET NO. 2 OF 2 SHEETS			ILLINOIS FED. AID PROJECT		