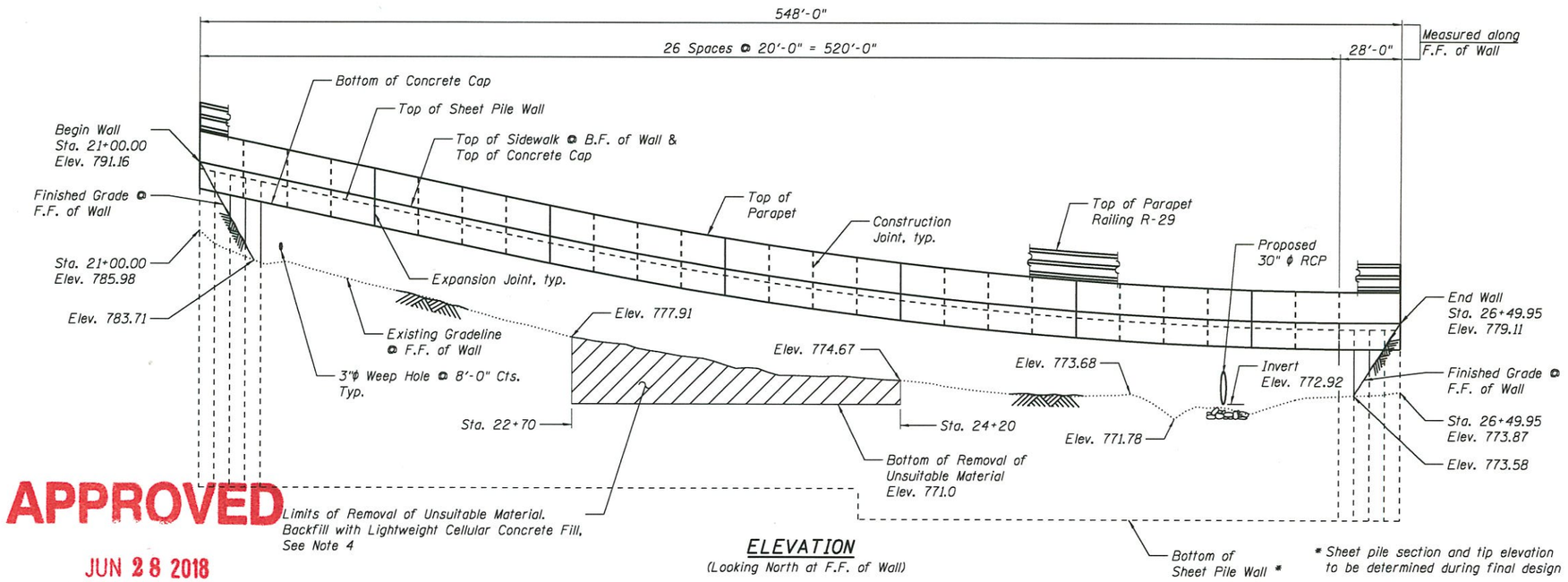
Bench Mark: P. K. Nail at the northwest corner of Sanctuary Drive and IL Rte. 22 (Elev. 775.81)
Existing Structure: None



ELEVATION
(Looking North at F.F. of Wall)

* Sheet pile section and tip elevation to be determined during final design

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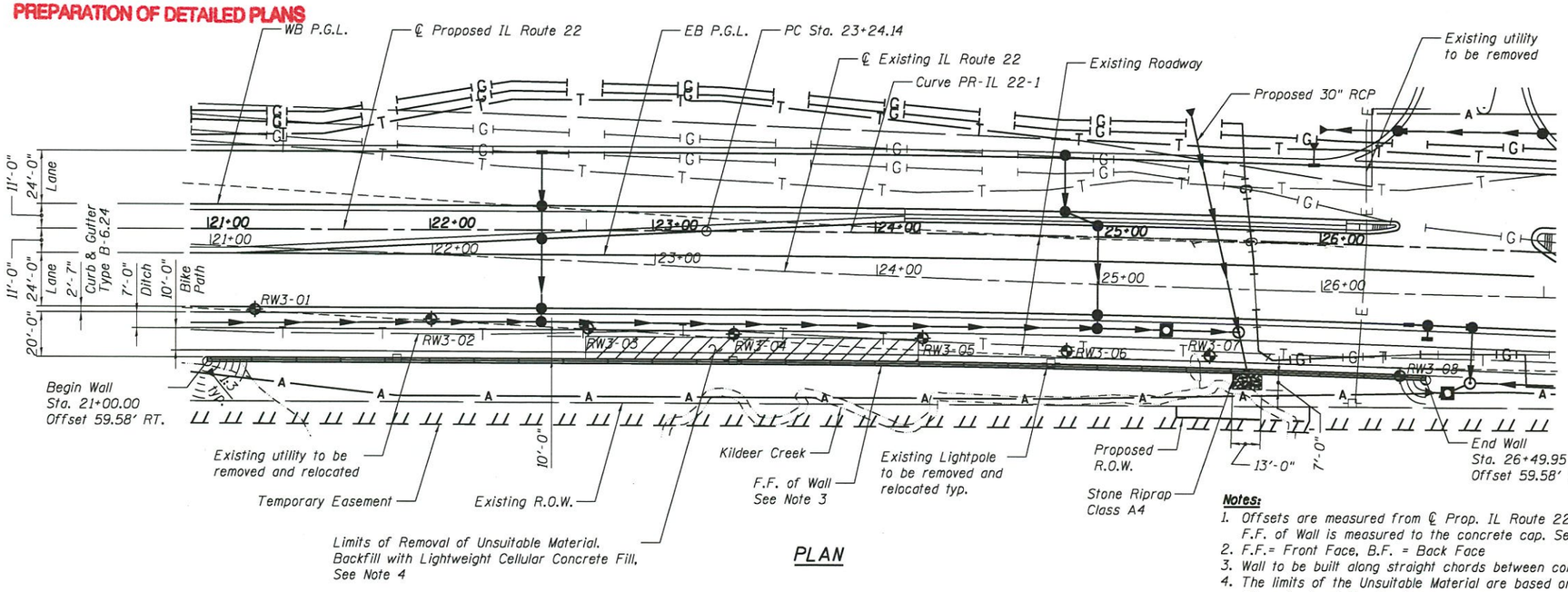


PLAN

Notes:

1. Offsets are measured from ℄ Prop. IL Route 22 to the F.F. of Wall. F.F. of Wall is measured to the concrete cap. See typical sections.
2. F.F.= Front Face, B.F. = Back Face
3. Wall to be built along straight chords between construction joints.
4. The limits of the Unsuitable Material are based on soil boring data. The extents of the Unsuitable Material to be verified in field.

HIGHWAY CLASSIFICATION

F.A.P. Rte. 337 - IL Route 22
Functional Class: Other Principal Arterial
ADT: 14,800 (2015), 35,000 (2040)
ADTT: 1,190 (2015), 2,815 (2040)
DHV: 3,180 (2040)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.
2-Way Traffic
Directional Distribution: 75:25 (EB:WB)

DESIGN SPECIFICATIONS

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

DESIGN STRESSES

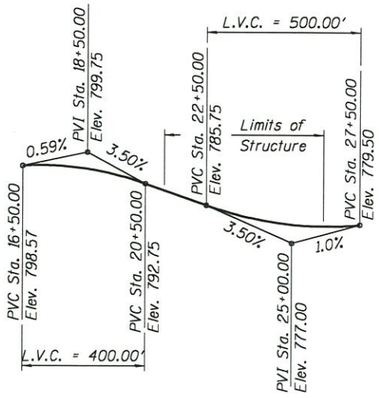
FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 50,000 psi (ASTM A 572, Grade 50, Sheet Pile)

CURVE DATA

PR-IL 22-1

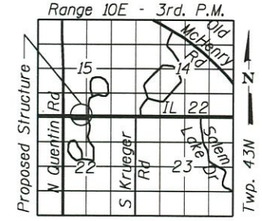
P.I. Sta. = 26+50.34
Δ = 3°44'23"
D = 0°34'23"
R = 10,000.00'
T = 326.20'
L = 652.16'
E = 5.32'
e = N.C.
T.R. = N/A
S.E. Run = N/A
P.C. Sta. = 23+24.14
P.T. Sta. = 29+76.30



PROFILE GRADE
(Along EB P.G.L.)

LEGEND

- Lightpole
- A — Prop. Aerial Line
- E — Exist. Electric Line
- G — Prop. Gas Line
- G — Exist. Gas Line
- T — Prop. Telephone Line
- T — Exist. Telephone Line
- Soil Boring
- Prop. Storm Sewer



LOCATION SKETCH

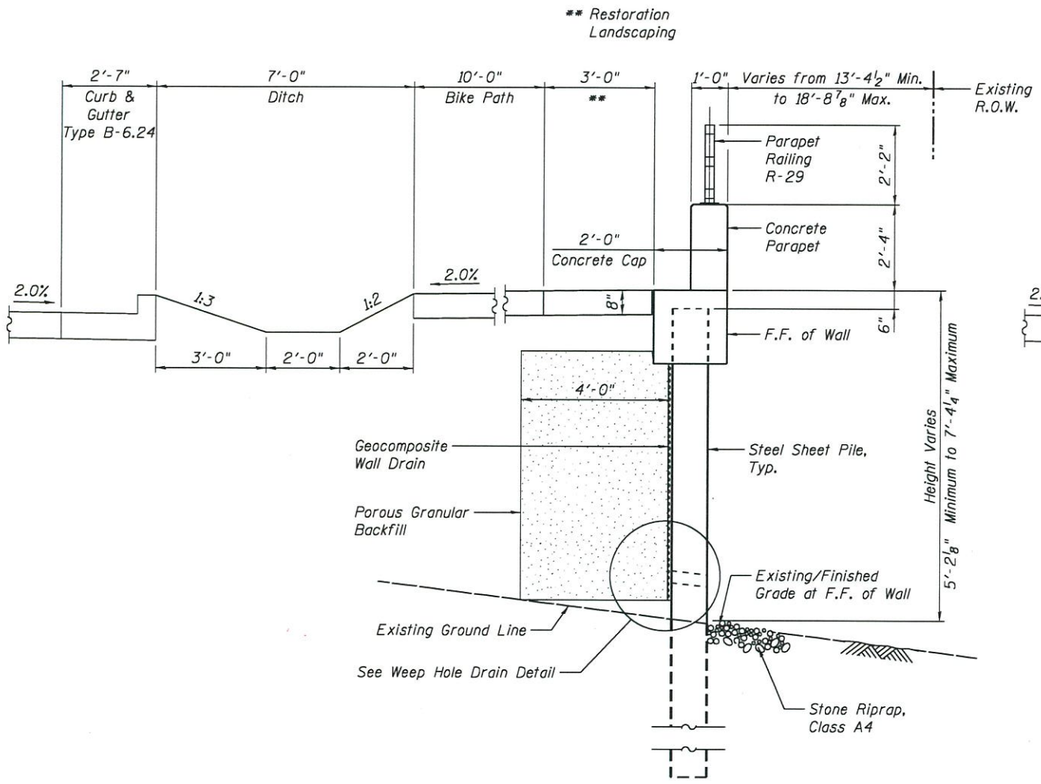
GENERAL PLAN
RETAINING WALL NO. 3
ILLINOIS ROUTE 22
F.A.P. RTE. 337 - SEC 20-Y
LAKE COUNTY
STA. 21+00 TO STA. 26+50
STRUCTURE NO. 049-W051

GARZA KARHOFF ENGINEERING, LLC	USER NAME =	DESIGNED - MET	REVISED
		CHECKED - BGK	REVISED -
	PLOT SCALE =	DRAWN - MET	REVISED -
	PLOT DATE =	CHECKED - BGK	REVISED -

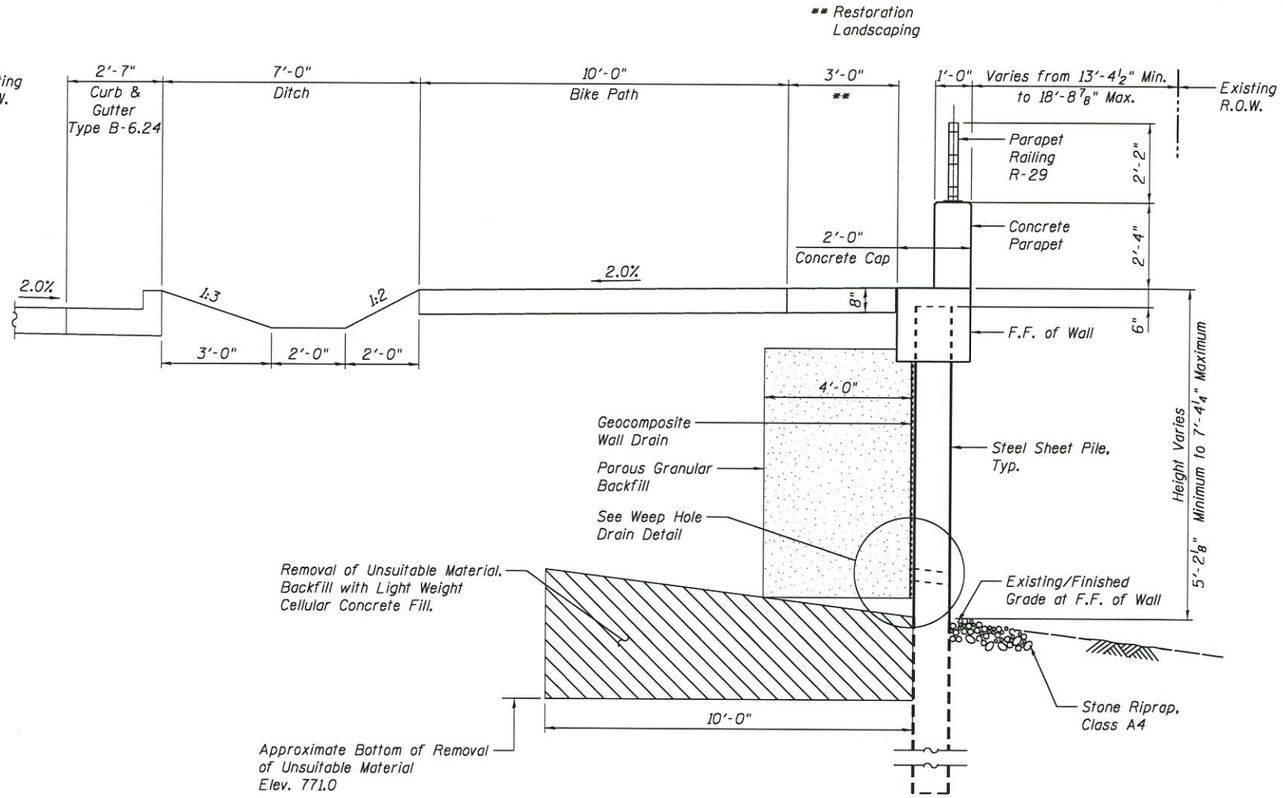
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STRUCTURE NO. 049-W051
SHEET NO. 1 OF 2 SHEETS

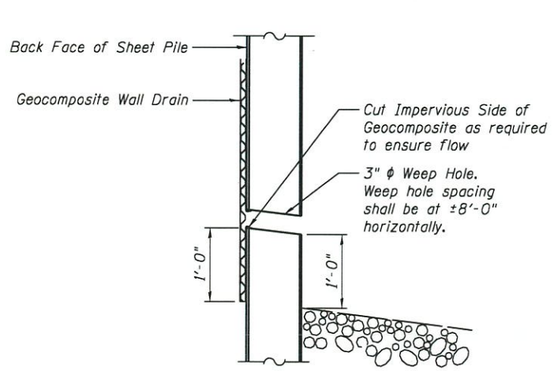
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20-Y	LAKE	693	
		CONTRACT NO. 60N10		
	ILLINOIS FED. AID PROJECT			



TYPICAL SECTION THROUGH
SHEET PILE WALL



SECTION THROUGH
SHEET PILE WALL AT
SOIL REMEDIATION



WEEP HOLE DRAIN DETAIL

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JUN 28 2018

AS A BASIS FOR
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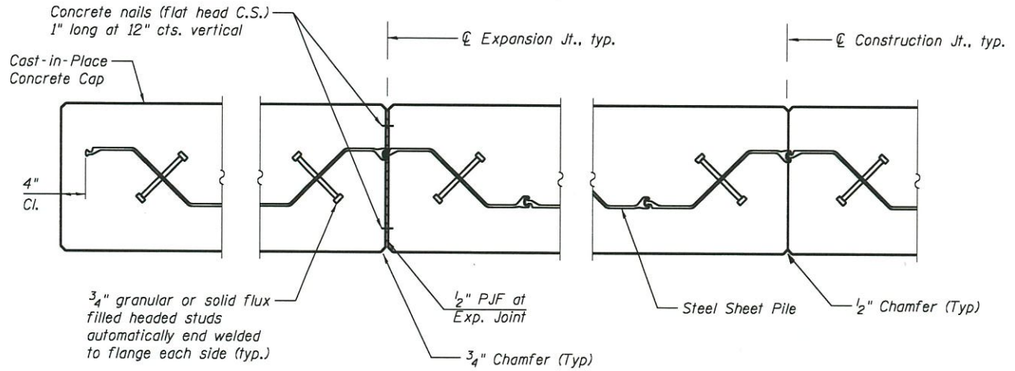

AT WALL END AT EXPANSION JOINT AT CONSTRUCTION JOINT

SECTION OF PILE CAP

GARZA KARHOFF ENGINEERING, LLC	USER NAME =	DESIGNED - MET	REVISED
		CHECKED - BGK	REVISED -
	PLOT SCALE =	DRAWN - MET	REVISED -
	PLOT DATE =	CHECKED - BGK	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS
STRUCTURE NO. 049-W051
SHEET NO. 2 OF 2 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
337	20-Y	LAKE	693	
		CONTRACT NO. 60N10		
	ILLINOIS	FED. AID PROJECT		