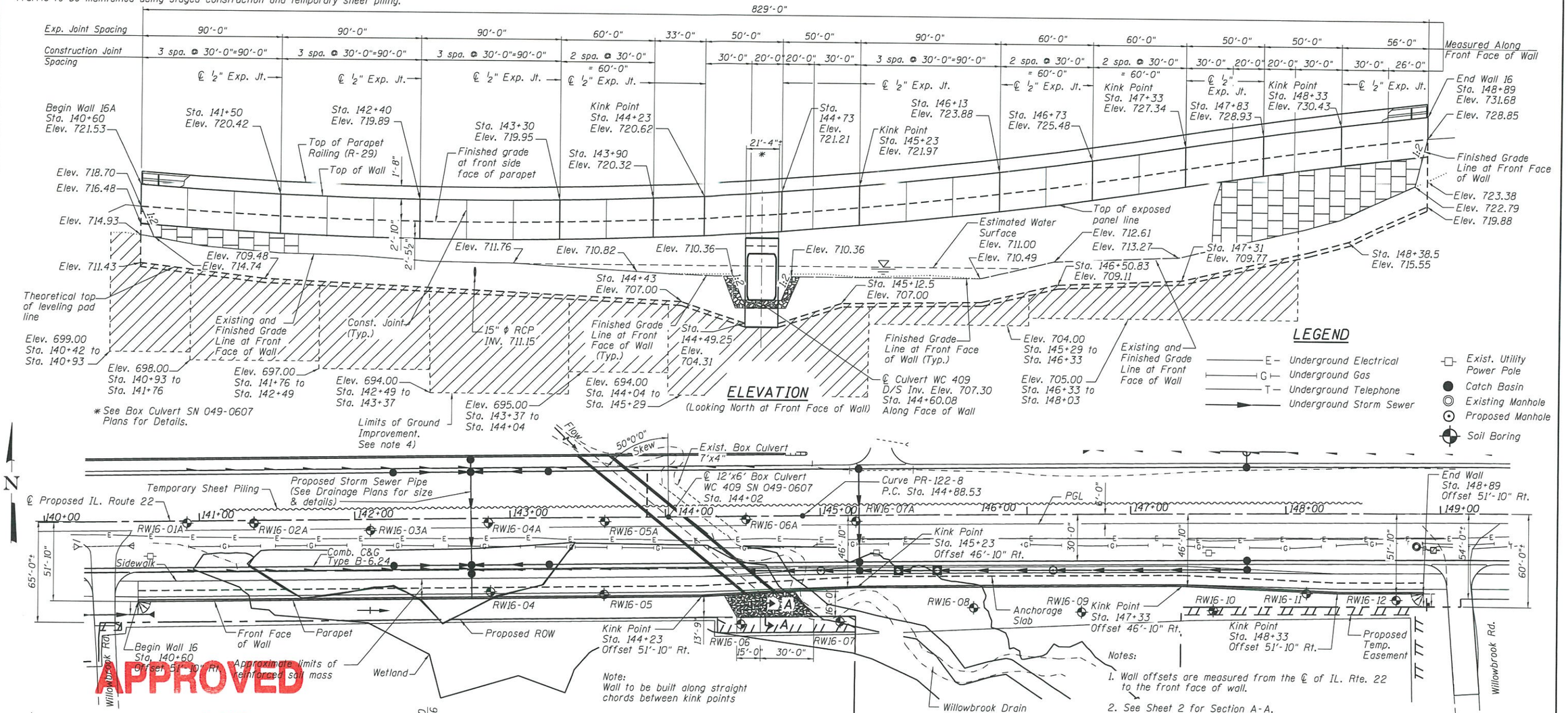
Bench Mark: C.P. #24 Nail in Shoulder of EB IL. Rte. 22 at east end of Guardrail. Approximate Sta. 113+55, Elev. 755.10

Existing Structure: None
Traffic to be maintained using staged construction and temporary sheet piling.

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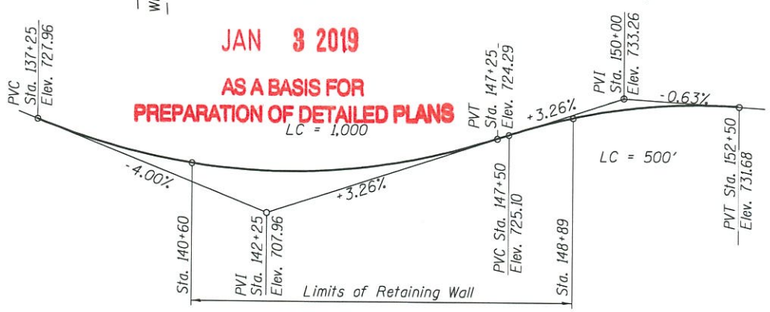



PROFILE GRADE
(Along ℄ IL 22)

## DESIGN SPECIFICATIONS

AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017

## DESIGN STRESSES

**FIELD UNITS**

f'c = 3,500 psi (Reinforced Concrete)
fy = 60,000 psi (Reinforcement)

**PRECAST PANEL**

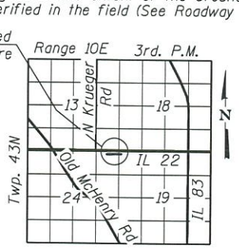
f'c = 4,500 psi (Precast Panel)

## 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), 2,814 (2040)
DHV: 3,185 (2040)
Design Speed: 50 m.p.h.
Posted Speed: 45 m.p.h.
2-Way Traffic
Directional Distribution: 75:50

## 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




LOCATION SKETCH

# GENERAL PLAN & ELEVATION
# RETAINING WALL NO. 16
# ILLINOIS ROUTE 22
# F.A.P. RTE. 337 - SEC 20-Y
# LAKE COUNTY
# STA. 140+60 TO STA. 148+89
# STRUCTURE No. 049-W062

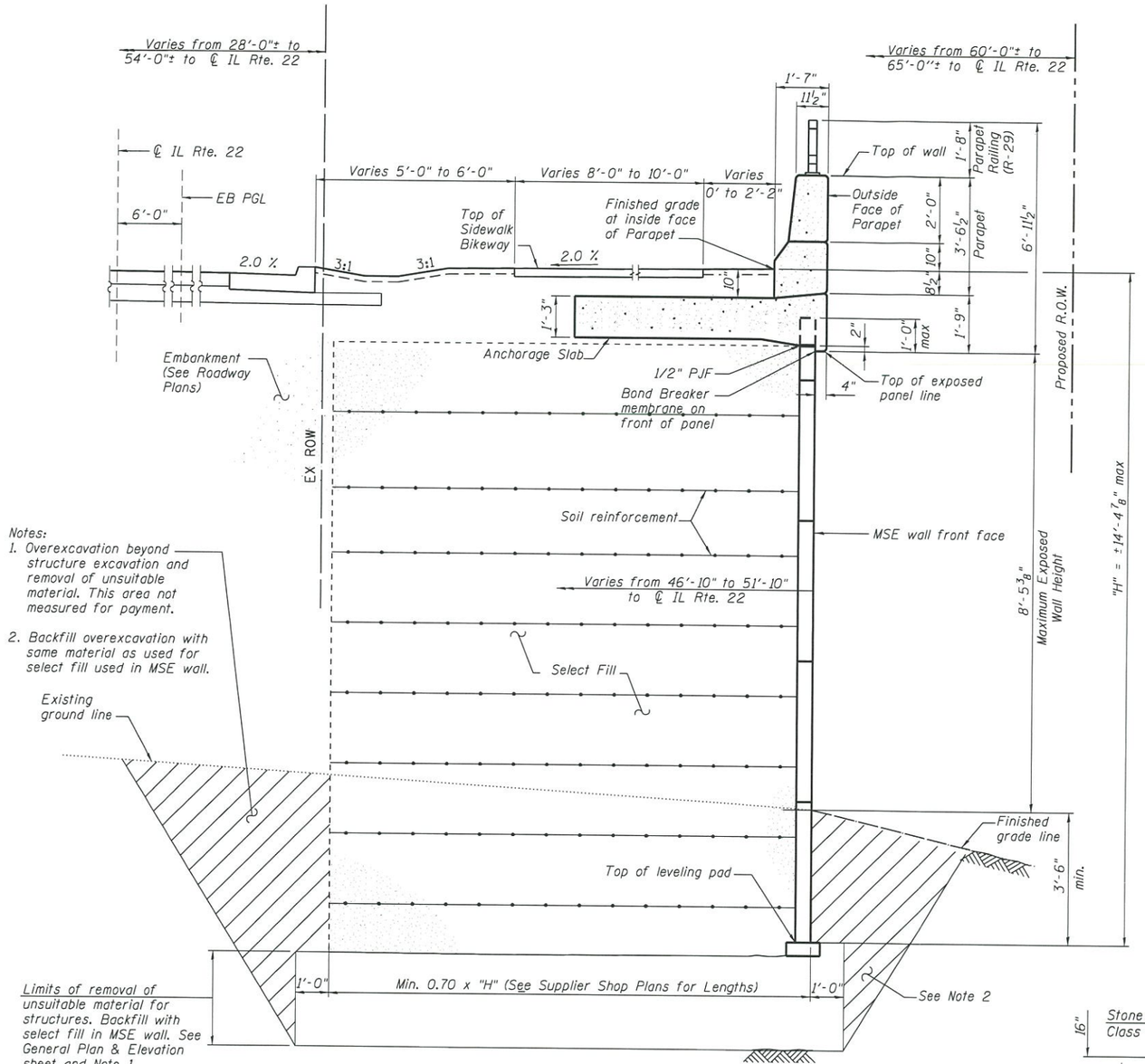
Primera
300 S. WACKER DRIVE SUITE 700 . CHICAGO IL 60606 . P.312-595-9700 F.312-595-9415

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

**STATE OF ILLINOIS**
**DEPARTMENT OF TRANSPORTATION**

SHEET NO. 1 OF 2 SHEETS

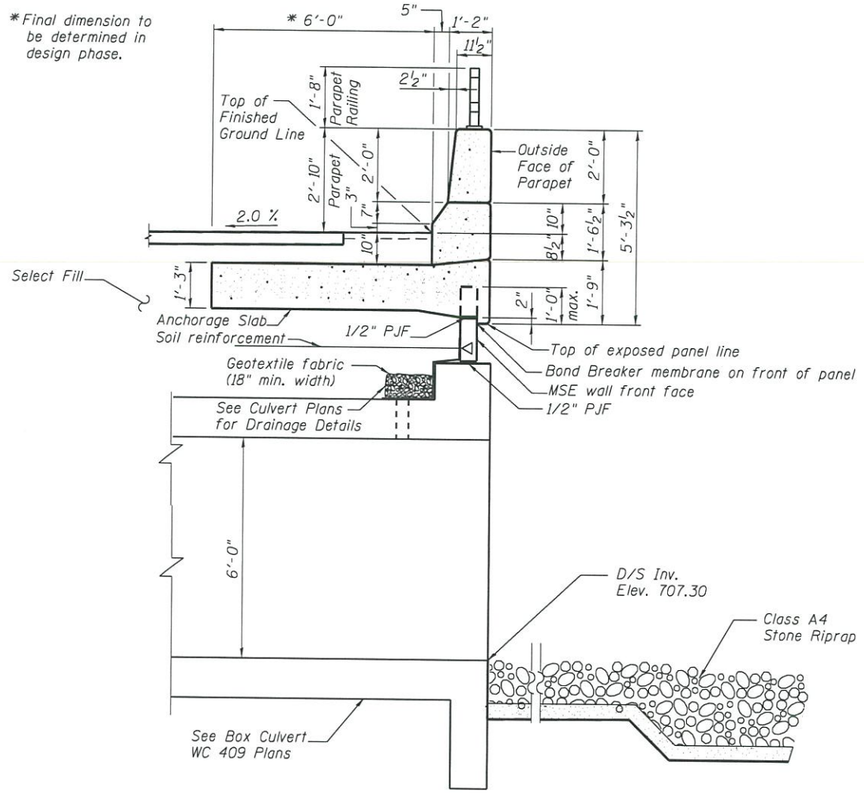
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 337 | 20-Y | LAKE | | |
| | | CONTRACT NO. 60N10 | | |
| | ILLINOIS FED. AID PROJECT | | | |




Notes:
1. Overexcavation beyond structure excavation and removal of unsuitable material. This area not measured for payment.
2. Backfill overexcavation with same material as used for select fill used in MSE wall.

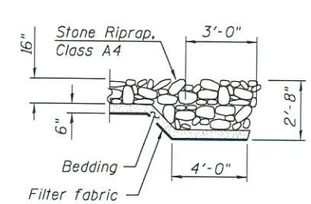
TYPICAL SECTION THRU MSE WALL

(Looking East)




SECTION THRU ANCHORAGE SLAB/PARAPET & CULVERT WC 409

The M.S.E. wall supplier's internal stability design shall account for the anchorage slab's bearing pressure surcharge of 1.0 ksf and horizontal bearing pressure of 0.5 kips/ft. of wall.




SECTION A-A

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DETAILS
RETAINING WALL NO. 16
ILLINOIS ROUTE 22
F.A.P. RTE. 337 - SEC 20-Y
LAKE COUNTY
STA. 140+60 TO STA. 148+89
STRUCTURE No. 049-W062

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Primera | USER NAME = | DESIGNED - JPM | REVISED | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | MSE WALL DETAILS STRUCTURE NO. 049-W062 | F.A.P. RTE. 337 | SECTION 20-Y | COUNTY LAKE | TOTAL SHEETS / SHEET NO. |
| | | CHECKED - MMH/MMZ | REVISED - | | | | | | |
| | PLOT SCALE = | DRAWN - MPS | REVISED - | | | | | CONTRACT NO. 60N10 | |
| | PLOT DATE = $DATE$ | CHECKED - MMH/MMZ | REVISED - | | SHEET NO. 2 OF 2 SHEETS | | | ILLINOIS FED. AID PROJECT | |