Bench Mark: Brass disk in 18" diameter concrete monument at the Northeast corner of the intersection of Old Orchard Rd. and Skokie Blvd. located in the NW 1/4 of Sec. 10, T. 41 N., R. 13 E., Elev. 625.89.

SN 016-3211 was originally built around 1981 during the widening of SN 016-0823 as northbound exit ramp Section 263-0707.5 C.F. This structure consists of a three span continuous W30x173 multi beam bridge with span lengths of 49'-6", 61'-9" and 49'-6" for a total length of 167'-7" from back of abutment to end of cantilever parapets. The substructure consists of a closed abutment, wingwalls and hammerhead piers all founded on piles. The existing ramp superstructure will be removed and placed on retained fill. MSE walls will be constructed to retain the fill.

Traffic will be detoured.

No salvage.

APPROVED

JUL 3 2018

AS A BASIS FOR PREPARATION OF DETAILED PLANS

## HIGHWAY CLASSIFICATION

Exit Ramp 'C' to Old Orchard Road
Functional Class: Interstate (Ramp)
ADT: 10,600 (2015); 14,000 (2040)
ADTT: 424 (2015); 700 (2040)
DHV: 925
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.
One-Way Traffic

## DESIGN SPECIFICATIONS

2014 AASHTO LFRD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims

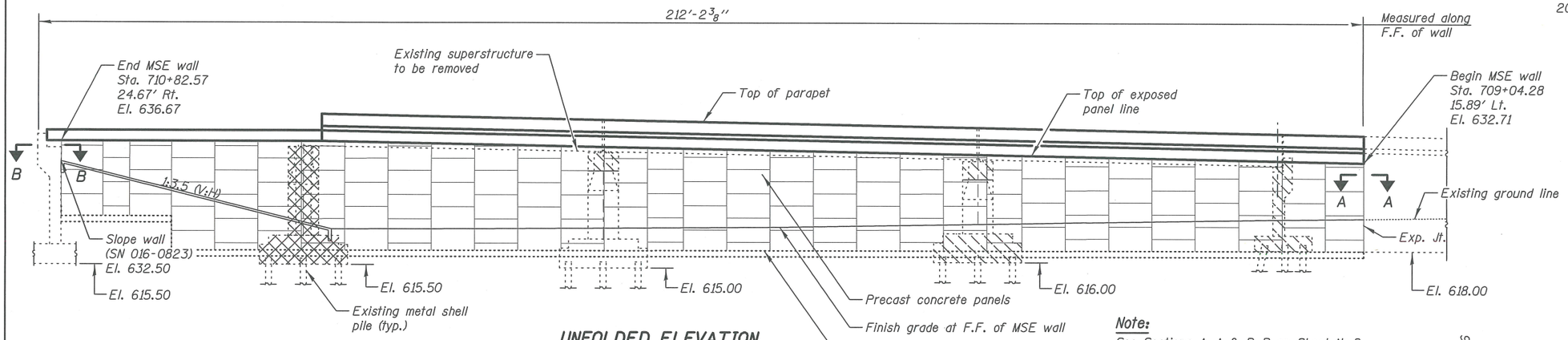
## DESIGN STRESSES

### FIELD UNITS (NEW CONSTRUCTION)

$f'_c$ = 3,500 psi
$f'_c$ = 4,000 (superstructure concrete)
$f_y$ = 60,000 psi (reinforcement)

### PRECAST UNITS

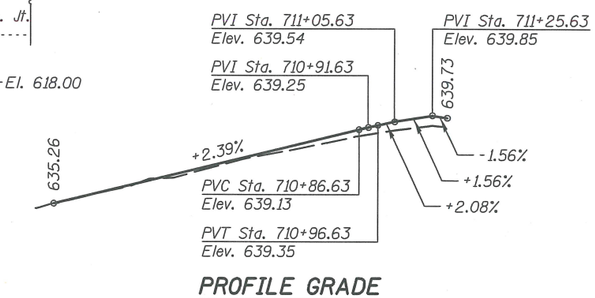
$f'_c$ = 5,000 psi (precast units)




## UNFOLDED ELEVATION

(Looking east)

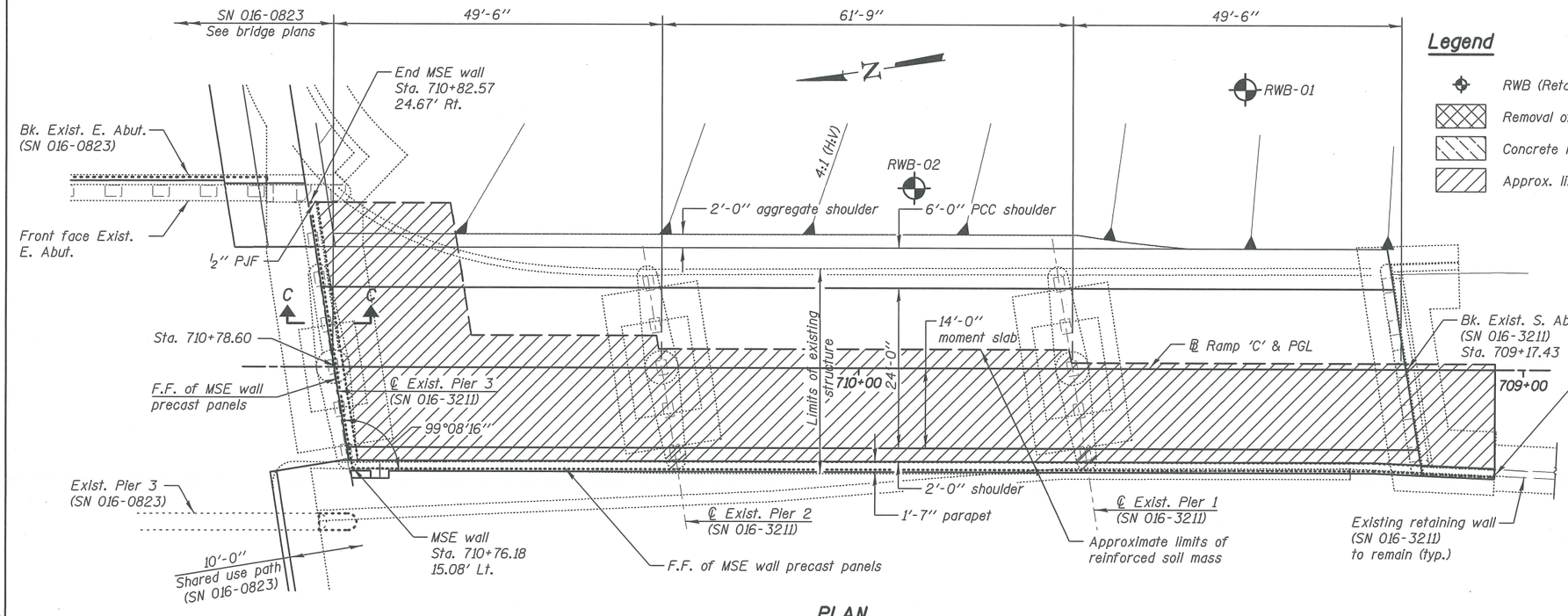
Note:
See Sections A-A & B-B on Sheet No.2




## PROFILE GRADE

(Along ℄ I-94 Ramp 'C')

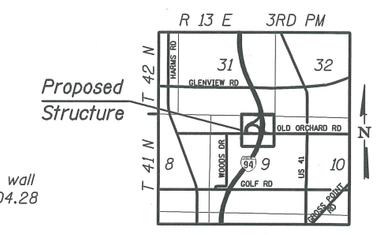
RWB-03




## PLAN

## Legend

- RWB (Retaining Wall Boring)
- Removal of existing structures
- Concrete removal
- Approx. limits of reinforced soil mass




## LOCATION SKETCH

# GENERAL PLAN AND ELEVATION
# I-94 EXIT RAMP 'C' TO OLD ORCHARD ROAD
# F.A.I. 94 SEC. 0707.2-I(85)
# COOK COUNTY
# STA. 709+04.28 TO 710+82.57
# STRUCTURE NO. 016-3211

PLOT DATE = 6/22/2018

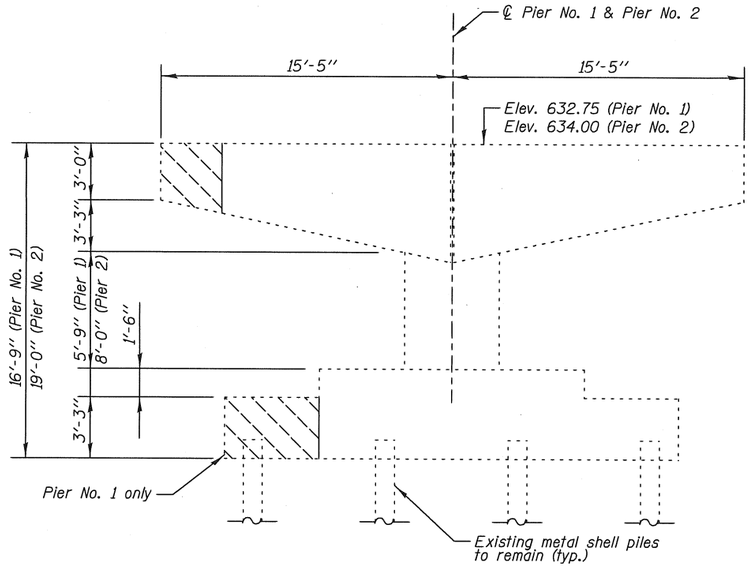
| | | | |
|---|---|---|---|
| KNIGHT Engineers & Architects | | DESIGNED - JW | REVISED |
| | | CHECKED - WPM | REVISED |
| | SCALE - NONE | DRAWN - BK | REVISED |
| | DATE - 6/22/2018 | CHECKED - TB | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

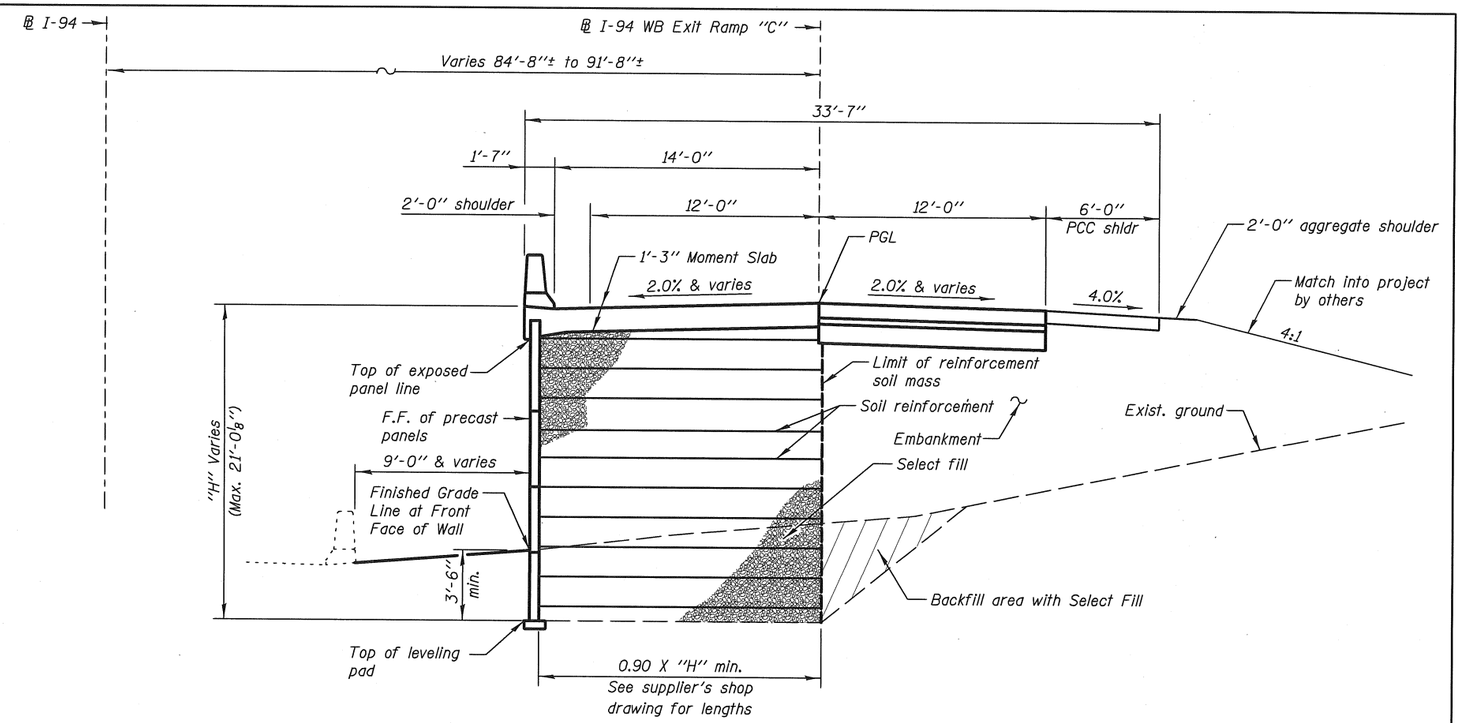
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94 | 0707.2-I(85) | COOK | 2 | 1 |

CONTRACT NO. 62A49

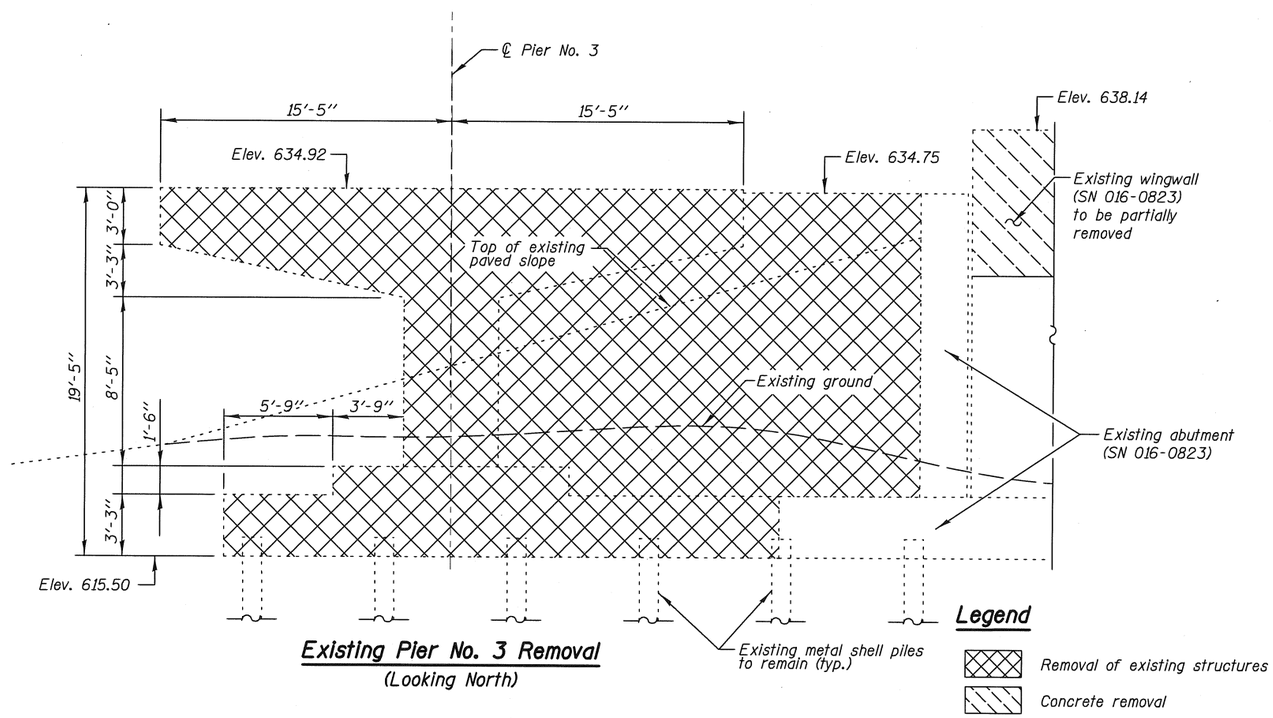
ILLINOIS FED. AID PROJECT



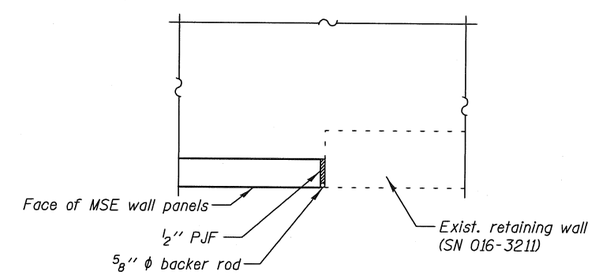

**Existing Piers No. 1 & No. 2 (To be abandoned)**
(Looking North)



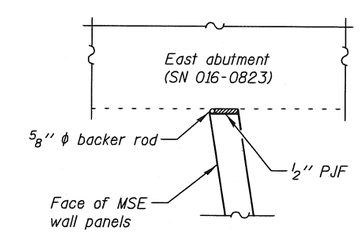

**Cross Section**
(Looking North)



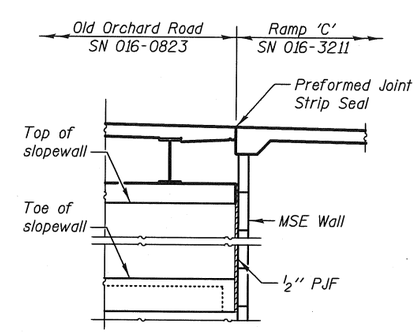

**Existing Pier No. 3 Removal**
(Looking North)




**Section A-A**




**Section B-B**




**SECTION C-C**
(Looking east)

GENERAL PLAN AND ELEVATION
I-94 EXIT RAMP 'C' TO OLD ORCHARD ROAD
F.A.I. 94 SEC. 0707.2-I(85)
COOK COUNTY
STA. 709+04.28 TO 710+82.57
STRUCTURE NO. 016-3211

PLOT DATE = 7/2/2018

| KNIGHT Engineers & Architects | | | |
|---|---|---|---|
| | | DESIGNED - JW | REVISED |
| | | CHECKED - WPM | REVISED |
| SCALE - NONE | | DRAWN - BK | REVISED |
| DATE - 6/22/2018 | | CHECKED - TB | REVISED |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94 | 0707.2-I(85) | COOK | 2 | 2 |
| | | CONTRACT NO. 62A49 | | |
| | ILLINOIS | FED. AID PROJECT | | |