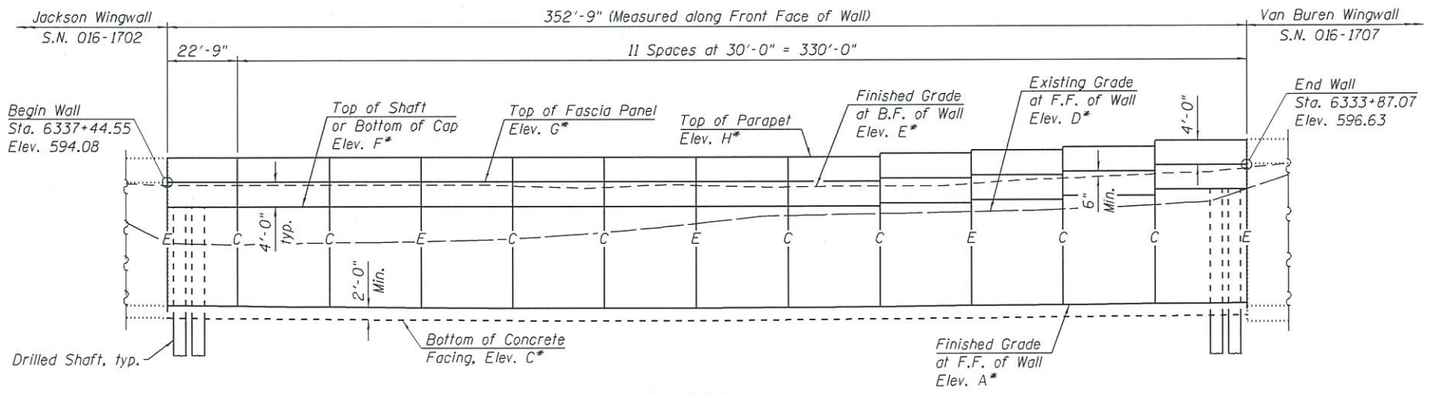
Bench Mark: Cut "□" on S. Line of Van Buren ±90' W. of W. Line of Des Plaines. Elev. 594.74.

Existing Structure: None.

Traffic is to be maintained during construction.



* For elevations, see Table 1 on Sheet 2 of 2.

ELEVATION

(Looking East at F.F. of Wall.
Proposed Concrete Barrier not shown for clarity.)

APPROVED

JUN 7 2016

AS A BASIS FOR PREPARATION OF DETAILED PLANS

Notes:

1.) Wall offsets are measured from the ℄ of NB C-D Road to the front face of precast panels.
2.) C denotes Construction Joint
3.) E denotes Expansion Joint
4.) F.F. denotes Front Face.
5.) B.F. denotes Back Face.
6.) Wall to be built along straight chords between construction joints.
7.) Shaft diameter, spacing and tip elevation to be determined during final design.
8.) 16" Water main and fiber optic to remain. Water main relocation, fiber optic relocation, and riser shaft construction as part of future Jackson Boulevard Utility Relocation Contract, 62A75.

CURVE DATA

(NB C-D Road)
Prop. Curve P-NCD-NX-5
P.I. Sta. = 6336+57.47
Δ = 35° 13' 41" (RT)
D = 4° 12' 24"
R = 1,362.00'
T = 432.42'
L = 837.42'
E = 67.00'
e = 4.20%
T.R. = 41'
S.E. Run = 87'
P.C. Sta. = 6332+25.05
P.T. Sta. = 6340+62.48

HIGHWAY CLASSIFICATION

NB C-D Road
Functional Class: Interstate
ADT: NA (2012): 17,000 (2040)
ADTT: NA (2012): 440 (2040)
DHV: 1,680 (2040)
Design Speed: 30 m.p.h.
Posted Speed: 30 m.p.h.
One-Way Traffic
Directional Distribution: NA

DESIGN SPECIFICATIONS

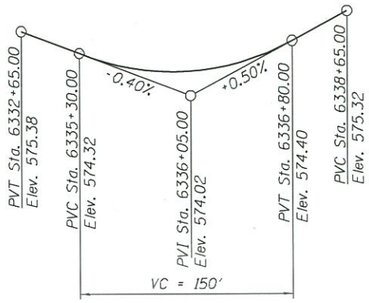
2014 AASHTO LRFD Bridge Design Specifications 7th Edition with 2015 and 2016 Interim Specifications

DESIGN STRESSES

FIELD UNITS

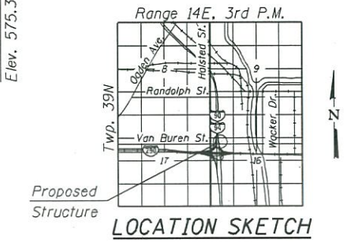
f'c = 7,000 psi (Drilled Shafts)**
f'c = 3,500 psi (All other concrete)
fy = 60,000 psi (Reinforcement)

** Final concrete strength will be determined during final design

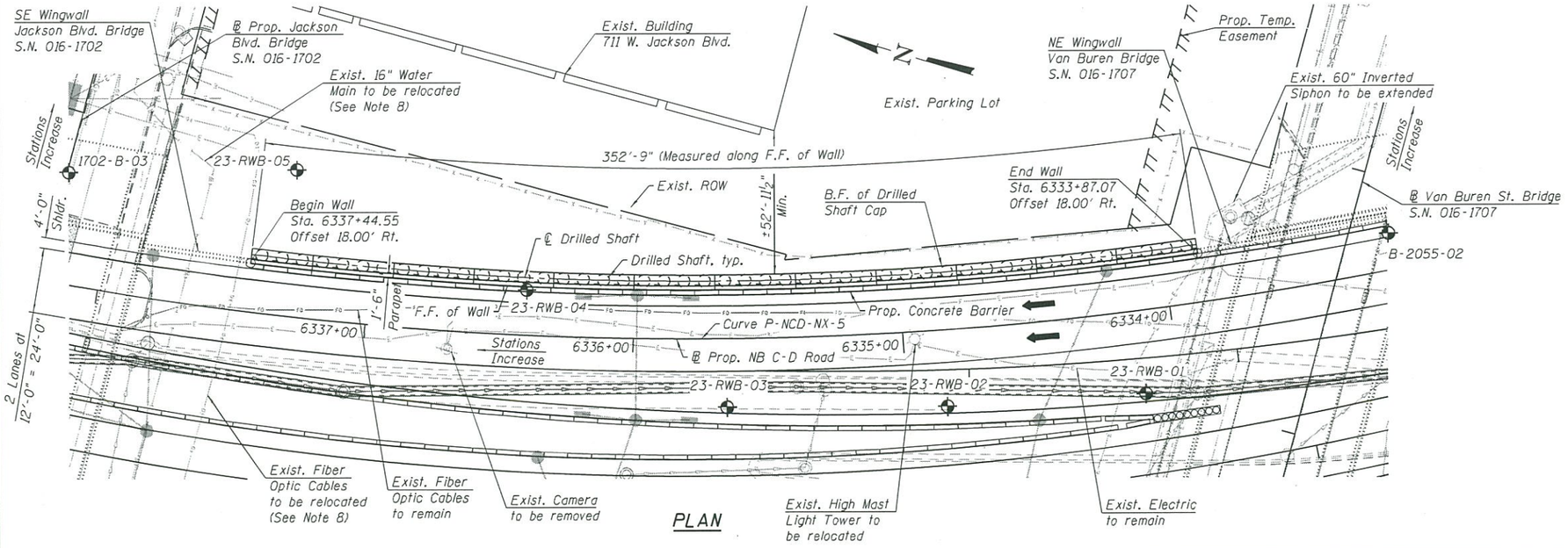


PROFILE GRADE

(Along ℄ NB C-D Road)



LOCATION SKETCH



PLAN

LEGEND:

Ex. Chain Link Fence
Combined Sewer
Electric
Water
Fiber Optic
Ex. Storm Sewer
Prop. Storm Sewer
Soil Boring

GENERAL PLAN AND ELEVATION
RETAINING WALL 23 ALONG NB C-D ROAD
F.A.I. RTE. 90/94 (KENNEDY EXPRESSWAY)
SECTION 2015-020B
COOK COUNTY
STATION 6333+87.07 TO STATION 6337+44.55
STRUCTURE NO. 016-1814

TranSystems

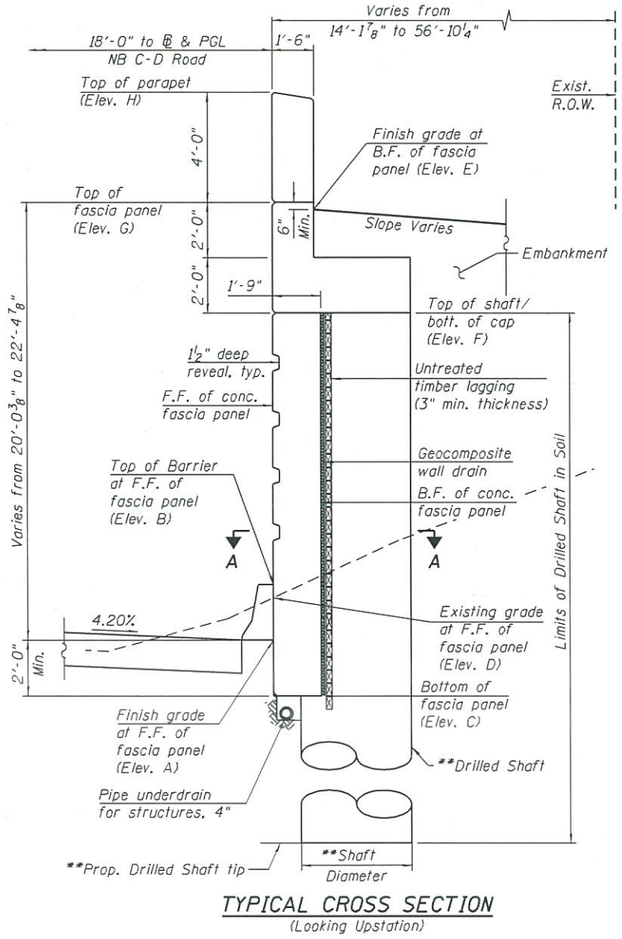
USER NAME = wjcolletti	DESIGNED - WJC	REVISED -
	CHECKED - DL	REVISED -
PLOT SCALE = 48.00 ' / in.	DRAWN - WJC	REVISED -
PLOT DATE = 5/13/2016	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

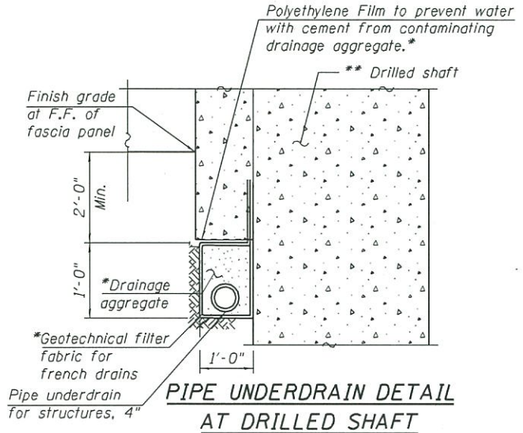
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2015-020B	COOK	2	1
		CONTRACT NO. 62A78		
		ILLINOIS FED. AID PROJECT		

3/16/2016 PM - pw:\\bi7419-PWNT.eacomonline.local:AECOM_0502_NA\Documents\01Americas\Transportation\60269938 Circle\Phase_II\000_CAD\000_Structural\Structure_016-1814\TSL\Sheets\016814-60X99-SHT-TSL-001

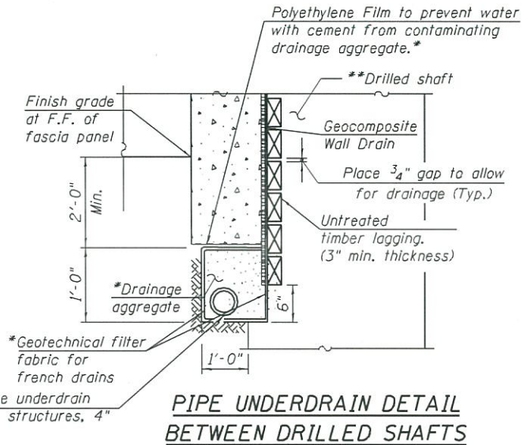


TYPICAL CROSS SECTION

(Looking Upstation)



PIPE UNDERDRAIN DETAIL AT DRILLED SHAFT



PIPE UNDERDRAIN DETAIL BETWEEN DRILLED SHAFTS

TABLE 1 - WALL ELEVATIONS

	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
	6333+87.07	18'-0"	574.22	577.72	572.22	592.73	596.13	592.63	596.63	600.63
†	6334+17.47	18'-0"	574.10	577.60	572.10	590.19	595.15	592.63	596.63	600.63
††	6334+17.47	18'-0"	574.10	577.60	572.10	590.19	595.15	591.66	595.66	599.66
†	6334+47.87	18'-0"	573.98	577.48	571.98	589.52	594.52	591.66	595.66	599.66
††	6334+47.87	18'-0"	573.98	577.48	571.98	589.52	594.52	591.08	595.08	599.08
†	6334+78.27	18'-0"	573.86	577.36	571.86	589.13	593.69	591.08	595.08	599.08
††	6334+78.27	18'-0"	573.86	577.36	571.86	589.13	593.69	590.58	594.58	598.58
†	6335+08.67	18'-0"	573.74	577.24	571.74	588.86	593.34	590.58	594.58	598.58
††	6335+08.67	18'-0"	573.74	577.24	571.74	588.86	593.34	590.08	594.08	598.08
	6335+39.08	18'-0"	573.62	577.12	571.62	588.50	593.23	590.08	594.08	598.08
	6335+69.48	18'-0"	573.54	577.04	571.54	587.33	593.51	590.08	594.08	598.08
	6335+99.88	18'-0"	573.52	577.02	571.52	585.84	593.43	590.08	594.08	598.08
	6336+30.28	18'-0"	573.55	577.05	571.55	584.84	593.38	590.08	594.08	598.08
	6336+60.68	18'-0"	573.64	577.14	571.64	584.41	593.57	590.08	594.08	598.08
	6336+91.09	18'-0"	573.78	577.28	571.78	584.23	593.58	590.08	594.08	598.08
	6337+21.49	18'-0"	573.93	577.43	571.93	583.94	593.58	590.08	594.08	598.08
	6337+44.55	18'-0"	574.05	577.55	572.05	584.25	593.53	590.08	594.08	598.08

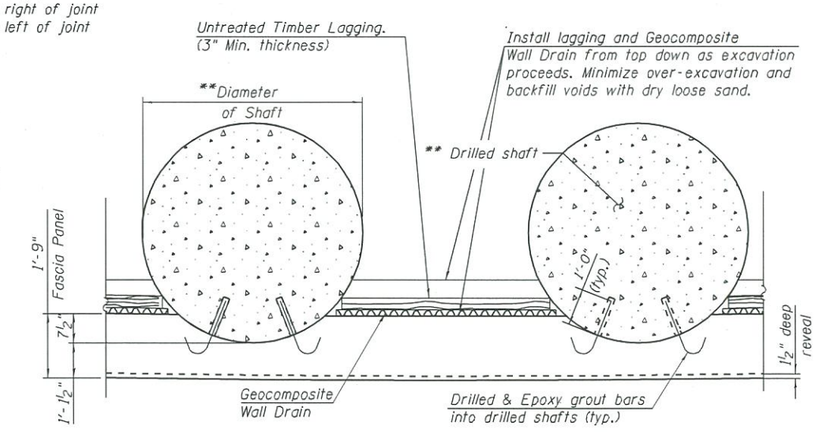
Elevation A- Finish Grade at Front Face of Fascia Panel
Elevation B- Top of Barrier at Front Face of Fascia Panel
Elevation C- Bottom of Fascia Panel
Elevation D- Existing Grade at Front Face of Fascia Panel
Elevation E- Finish Grade at Back Face of Fascia Panel
Elevation F- Top of Shaft / Bottom of Cap
Elevation G- Top of Fascia Panel
Elevation H- Top of Parapet
† Elevations just to the right of joint
†† Elevations just to the left of joint

*Cost included with "Pipe Underdrains for Structures, 4".

**Drilled shaft diameter, spacing and tip elevation to be determined during final design.

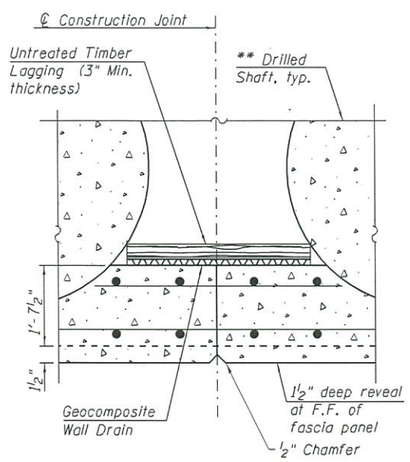
LEGEND:

B.F. - denotes Back Face.
E.F. - denotes Each Face.
F.F. - denotes Front Face.

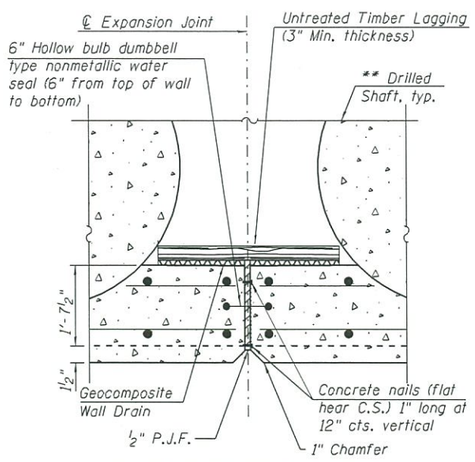


SECTION A-A

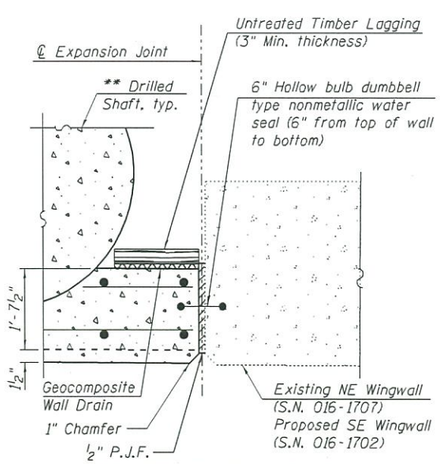
(Shaft Reinforcement not shown for clarity)



CONSTRUCTION JOINT DETAILS



EXPANSION JOINT DETAILS



EXPANSION JOINT DETAILS

APPROVED

JUN 7 2016

AS A BASIS FOR PREPARATION OF DETAILED PLANS

CROSS SECTION AND DETAILS
RETAINING WALL 23 ALONG NB C-D ROAD
F.A.I. RTE. 90/94 (KENNEDY EXPRESSWAY)
SECTION 2015-020B
COOK COUNTY
STATION 6333+87.07 TO STATION 6337+44.55
STRUCTURE NO. 016-1814

TranSystems

USER NAME = wjcolletti	DESIGNED - WJC	REVISED -
	CHECKED - DL	REVISED -
PLOT SCALE = 0.17 ' / in.	DRAWN - WJC	REVISED -
PLOT DATE = 5/13/2016	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	2015-020B	COOK	2	2
		CONTRACT NO. 62A78		
	ILLINOIS FED. AID PROJECT			

3:9:46 PM - pw:\\617419-PWNT.aecomonline.local:AECOM_DS02_NA\Documents\01Americas\Transportation\60269938 Circle\Phase_IN\00.CAD\008.Structural\Structure_016-1814NTSL\Sheets\016B14-60X99-SHT-TSL-002