Bench Mark: Chisel "X" on chain bolt of fire hydrant in front of 555 W. Harrison St. Elev. 594.46.

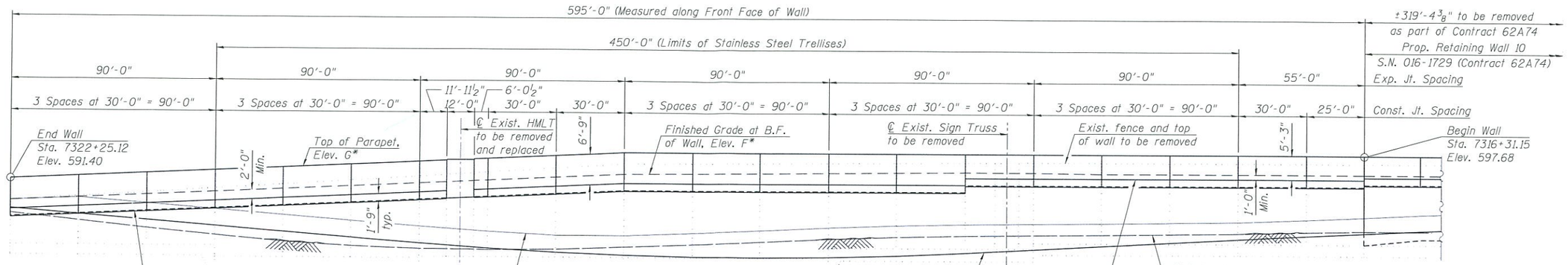
Existing Structure: Existing Retaining Wall 12. Constructed in 1987 under Sections 2526.6-IP-R-3, 2626.2-2B-DM, and 0101.6-IP-R(85). Reinforced concrete cantilever wall on steel H piles. Total length of 914'-4 3/8" from Harrison Street to Taylor Street. Exposed height varies 2'-10" to 18'-3". The existing fence and top part of the wall is to be removed and replaced with a concrete parapet on moment slab.

Existing Taylor Exit Ramp will be closed during construction.

No Salvage.

Notes:

1.) Wall offsets are measured from the ℄ of Prop. EB Taylor Exit Ramp to the front face of the existing wall.
2.) F.F. denotes Front Face.
3.) B.F. denotes Back Face.
4.) Repairs to front face of existing wall are to be made according to the Wall Condition Report.
5.) Expansion and construction joints for anchorage slab and parapet shall match the joints for the existing wall.
6.) Stainless Steel Trellises to be installed on the front face of the wall. For limits, see Elevation View. For details, see Typical Cross Section and SS Cable Wall Mount Unit Detail on Sheet 2 of 2.
7.) Proposed drainage information shown is conceptual and will be determined during final design



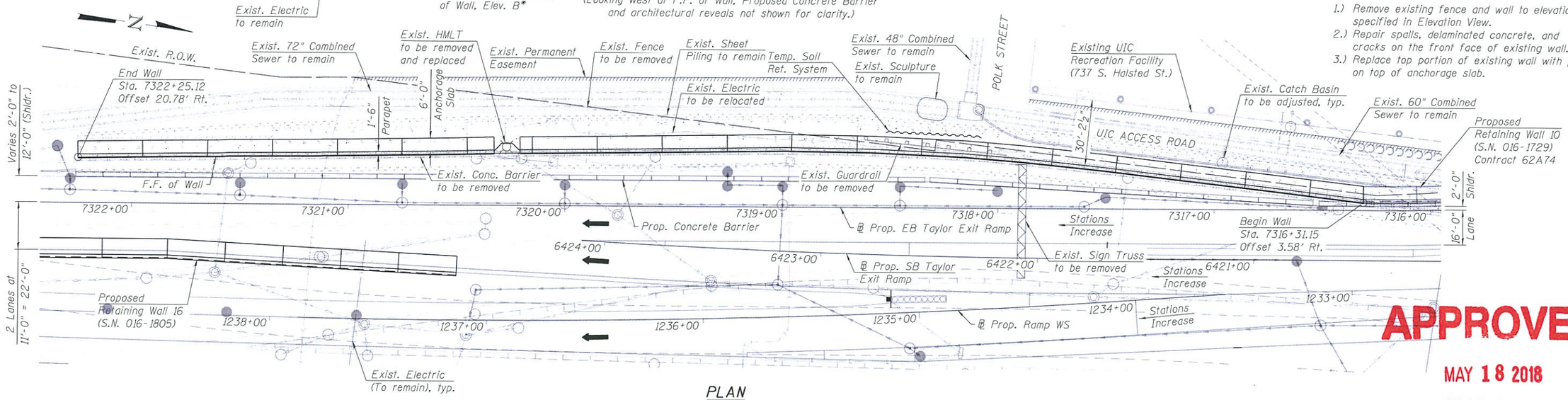
* For elevations, see Table 1 on Sheet 2 of 2.

ELEVATION

(Looking West at F.F. of Wall, Proposed Concrete Barrier and architectural reveals not shown for clarity.)

SCOPE OF WORK:

1.) Remove existing fence and wall to elevation specified in Elevation View.
2.) Repair spalls, delaminated concrete, and cracks on the front face of existing wall.
3.) Replace top portion of existing wall with parapet on top of anchorage slab.



PLAN

APPROVED

MAY 18 2018

AS A BASIS FOR PREPARATION OF DETAILED PLANS

HIGHWAY CLASSIFICATION

Taylor Street Exit Ramp
Functional Class: Interstate
ADT: 10,700 (2012); 11,000 (2040)
ADTT: 310 (2012); 319 (2040)
DHV: 750 (2040)
Design Speed: 25 m.p.h.
Posted Speed: 25 m.p.h.
One-Way Traffic
Directional Distribution: 100%

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition

2017 AASHTO LRFD Bridge Design Specifications 8th Edition

DESIGN STRESSES

FIELD UNITS

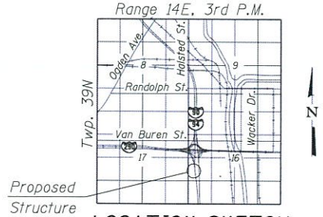
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

EXISTING UNITS

fc = 1,200 psi
fs = 20,000 psi (Reinforcement)

LEGEND:

Ex. Chain Link Fence — X —
Ex. Combined Sewer
Ex. Electric — E —
Ex. Storm Sewer
Prop. Storm Sewer



LOCATION SKETCH

GENERAL PLAN AND ELEVATION
EXISTING RETAINING WALL 12 ALONG EB TAYLOR EXIT RAMP
SECTION 2014-013 R&B-R
COOK COUNTY
STATION 7316+31.15 TO STATION 7322+25.12
STRUCTURE NO. 016-2311

TranSystems

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PLOT DATE = 5/4/2018	CHECKED - JM/MDS	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 1 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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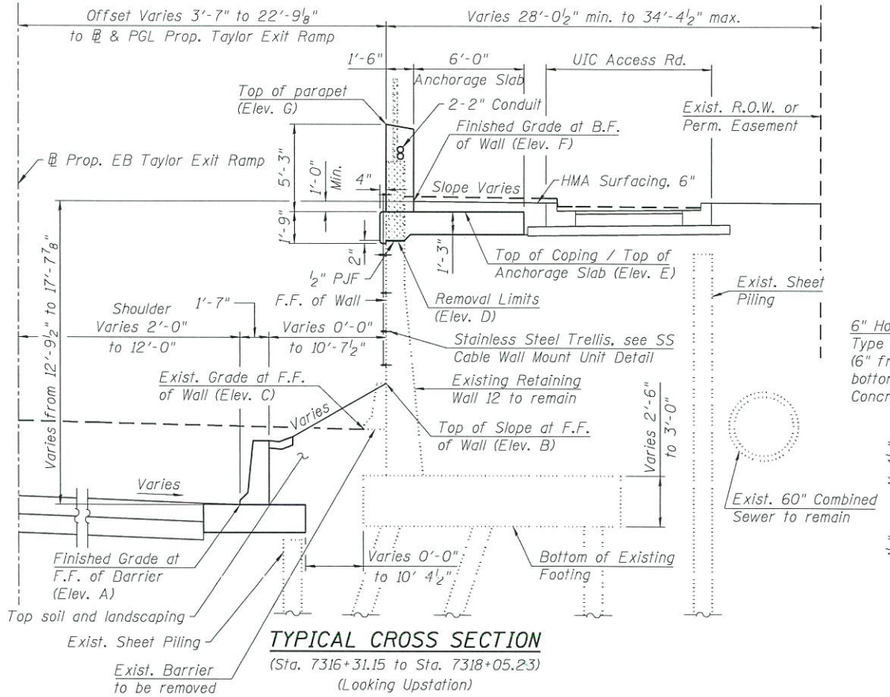
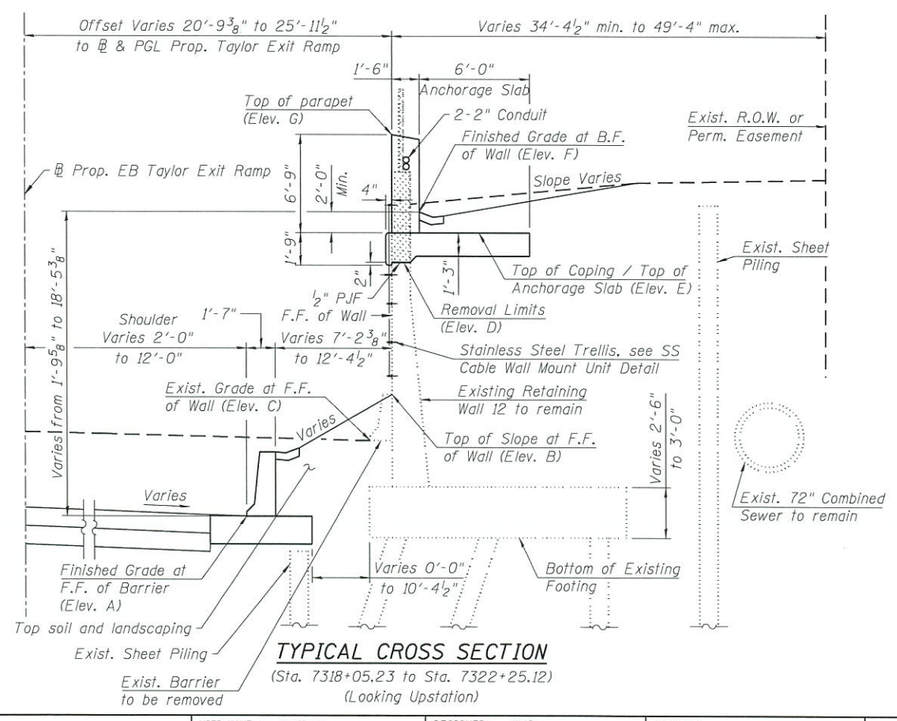


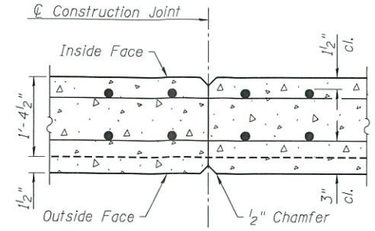
TYPICAL CROSS SECTION

(Sta. 7316+31.15 to Sta. 7318+05.23)
(Looking Upstation)



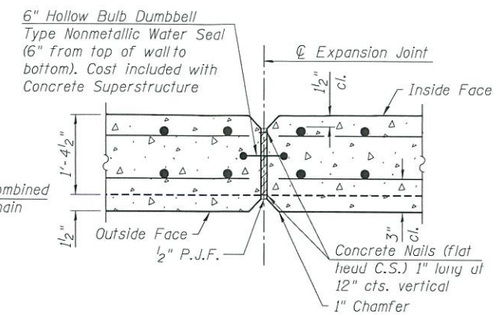
TYPICAL CROSS SECTION

(Sta. 7318+05.23 to Sta. 7322+25.12)
(Looking Upstation)



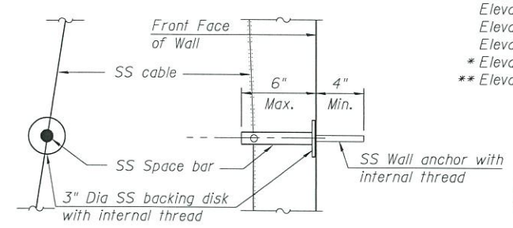
CONSTRUCTION JOINT DETAILS

(NTS)



EXPANSION JOINT DETAILS

(NTS)



SS CABLE WALL MOUNT UNIT DETAIL

Note: Type, size and location of SS Wall Anchor shall be determined in final design.

TABLE 1 - WALL ELEVATIONS

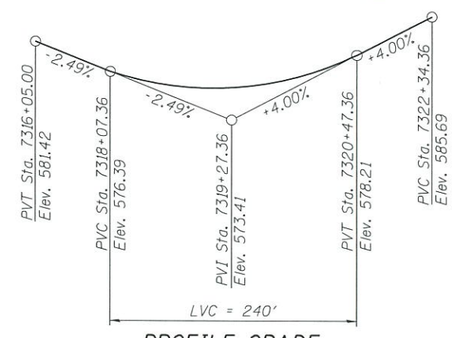
	Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G
	7316+31.15	3.58' Rt.	580.69	584.19	581.17	590.81	592.43	593.49	597.68
	7316+56.12	6.53' Rt.	580.06	583.62	580.89	590.81	592.43	593.49	597.68
	7316+85.91	10.04' Rt.	579.26	583.02	580.52	590.81	592.43	593.49	597.68
	7317+15.71	13.52' Rt.	578.45	582.82	580.32	590.81	592.43	593.49	597.68
	7317+45.51	16.99' Rt.	577.64	582.63	580.13	590.81	592.43	593.49	597.68
	7317+75.35	20.09' Rt.	576.83	582.46	579.96	590.81	592.43	593.66	597.68
*	7318+05.23	22.76' Rt.	576.02	582.28	579.78	590.81	592.43	593.68	597.68
**	7318+05.23	22.76' Rt.	576.02	582.28	579.78	589.31	590.93	593.68	597.68
	7318+35.18	24.43' Rt.	575.33	581.95	579.45	589.31	590.93	593.53	597.68
	7318+65.16	25.54' Rt.	574.93	581.42	578.92	589.31	590.93	593.38	597.68
	7318+95.16	25.95' Rt.	574.77	580.71	578.21	589.31	590.93	593.23	597.68
	7319+25.16	25.53' Rt.	574.86	580.04	577.54	589.31	590.93	593.08	597.68
	7319+55.15	25.06' Rt.	575.19	579.47	576.97	589.31	590.93	592.93	597.68
	7319+85.15	24.58' Rt.	575.77	579.49	576.41	588.61	590.23	592.23	596.98
	7320+15.15	24.21' Rt.	576.58	580.30	576.30	587.91	589.53	591.53	596.28
	7320+45.14	23.67' Rt.	577.64	581.35	576.44	587.21	588.84	590.84	595.59
	7320+75.14	23.11' Rt.	578.84	582.53	576.98	586.51	588.14	590.14	594.89
	7321+05.13	22.59' Rt.	580.04	583.72	577.91	585.82	587.44	589.44	594.19
	7321+35.13	22.27' Rt.	581.24	584.92	579.25	585.12	586.74	588.74	593.49
	7321+65.13	21.74' Rt.	582.44	586.11	580.68	584.42	586.05	588.05	592.80
	7321+95.12	21.33' Rt.	583.64	587.30	582.28	583.72	585.35	587.35	592.10
	7322+25.12	20.78' Rt.	584.84	587.15	583.83	583.03	584.65	586.65	591.40

Elevation A- Finished Grade at Front Face of Barrier
Elevation B- Top of Slope at Front Face of Wall
Elevation C- Existing Grade at Front Face of Wall
Elevation D- Removal Limits
Elevation E- Top of Coping / Top of Anchorage Slab
Elevation F- Finished Grade at Back Face of Wall
Elevation G- Top of Parapet
* Elevations just to the right of joint
** Elevations just to the left of joint

LEGEND:

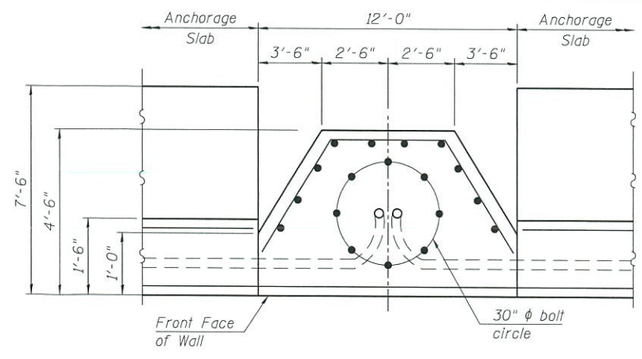
B.F. - denotes Back Face.
F.F. - denotes Front Face.
- Concrete Removal

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



PROFILE GRADE

(Along ℄ EB Taylor Exit Ramp)



PARAPET DETAIL AT HMLT

CROSS SECTION AND DETAILS
EXISTING RETAINING WALL 12 ALONG
EB TAYLOR EXIT RAMP
SECTION 2014-013 R&B-R
COOK COUNTY
STATION 7316+31.15 TO STATION 7322+25.12
STRUCTURE NO. 016-2311

TranSystems

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. 2 OF 2 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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		ILLINOIS FED. AID PROJECT		

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