

INDEX OF SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITY OF CHICAGO

DAN RYAN EXPRESSWAY:	ADT (2020)	DESIGN SPEED	POSTED SPEED
SB I-94 (DAN RYAN)	140,500	60 MPH	55 MPH
SB I-57	69,390	60 MPH	55 MPH
SB 71ST STREET C-D ENTRANCE RAMP	9,145	45 MPH	40 MPH
SB 75TH STREET C-D EXIT RAMP	7,985	45 MPH	40 MPH
SB 76TH STREET C-D ENTRANCE RAMP	7,940	45 MPH	40 MPH
SB 79TH STREET C-D EXIT RAMP	7,205	45 MPH	40 MPH
SB 87TH STREET EXIT RAMP	12,590	45 MPH	40 MPH
SB 87TH STREET ENTRANCE RAMP	13,350	45 MPH	40 MPH
SB 95TH STREET EXIT RAMP	11,900	45 MPH	40 MPH
SB WENTWORTH AVE. EXIT RAMP	4,770	45 MPH	40 MPH
SB HALSTED STREET EXIT RAMP	21,310	45 MPH	40 MPH

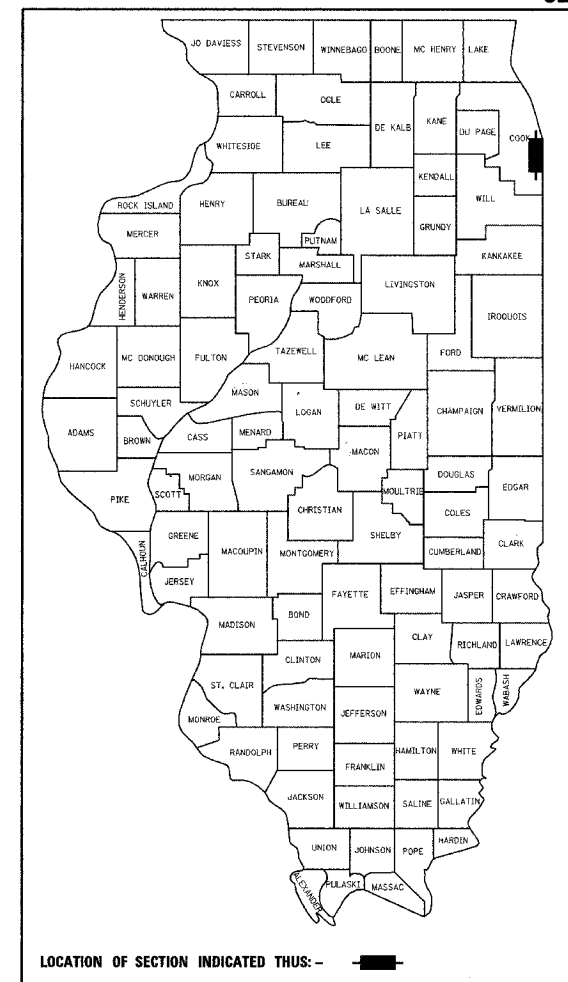
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

PROPOSED HIGHWAY PLANS

**F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)
SECTION (1516.1, 1717 & 1818) I-2
71ST STREET TO I-57 (SB RAMPS, C-D'S, AND RETAINING WALLS)
FENCING ON SB RETAINING WALLS
PROJECT: IM-094-3(395)060**

**COOK COUNTY
C-91-167-05
R. 14 E.**

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	1
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
D-91-421-01		(1516.1, 1717 & 1818) I-2	62931	



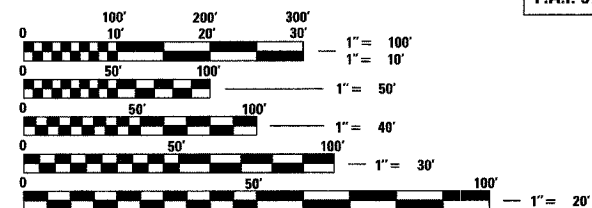
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS**

SUBMITTED April 8, 2005
Dina O'Keefe/AP
DISTRICT ENGINEER

May 13, 2005
Mike Nunez/D
ENGINEER OF DESIGN AND ENVIRONMENT

May 13, 2005
Victor Moders/D
DIRECTOR, DIVISION OF HIGHWAYS

CONTRACT 17J



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES; REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED

DIGGER:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

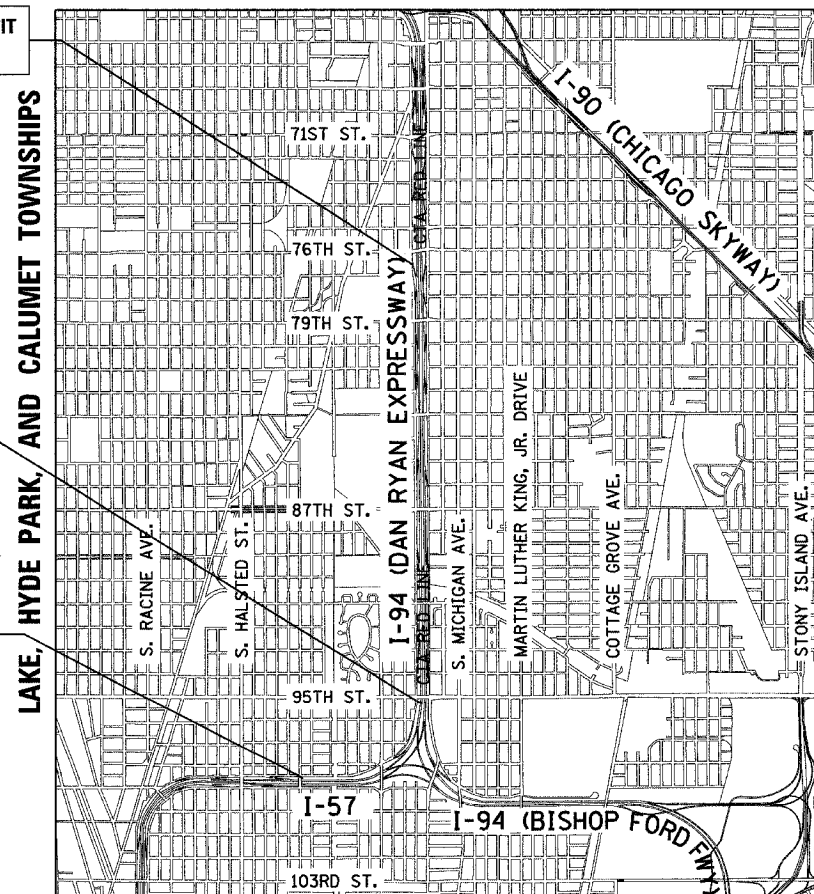
CTA CONTACT:
MARVIN A. WATSON,
GENERAL MANAGER, CONSTRUCTION
(312) 681-3860

CONTRACT NO. 62931

F.A.I. 94 (RYAN) PROJECT LIMIT
STA. 1329 + 61.69 (SB I-94)

F.A.I. 94 (RYAN) STA. 1204 + 63.94 =
F.A.I. 57 STA. 155 + 37.15

F.A.I. 57 PROJECT LIMIT
STA. 107 + 16.17 (SB I-57)



LOCATION MAP

0 1/2 MILE 1 MILE
MAP SCALE: 1" = 1/2 MILE
GROSS LENGTH OF PROJECT = 17,318.73 FT. = 3.280 MI.
NET LENGTH OF PROJECT = 17,318.73 FT. = 3.280 MI.



Signed Dean A. Kieseling
Dean A. Kieseling, P.E., Ill. Lic. No. 32957
Expires 11-30-2005.
Date APRIL 11, 2005

TYLIN INTERNATIONAL
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INDEX OF SHEETS

SHEET NO.	TITLE
1.	COVER SHEET
2.	INDEX OF SHEETS, INDEX OF STATE STANDARDS GENERAL NOTES, & SUMMARY OF QUANTITIES
3.	SUGGESTED CONSTRUCTION SEQUENCE FOR SB RAMPS - SHEET 1 OF 4
4.	SUGGESTED CONSTRUCTION SEQUENCE FOR SB RAMPS - SHEET 2 OF 4
5.	SUGGESTED CONSTRUCTION SEQUENCE FOR SB RAMPS - SHEET 3 OF 4
6.	SUGGESTED CONSTRUCTION SEQUENCE FOR SB RAMPS - SHEET 4 OF 4
7.	LOCATION PLAN
8.	WALL 33 - GENERAL PLAN
9.	WALL 33 - CHAIN LINK GATES (SPECIAL)
10.	WALL 34 - GENERAL PLAN
11.	WALL 34 - GENERAL PLAN
12.	WALL 35 - GENERAL PLAN
13.	WALL 36 - GENERAL PLAN
14.	WALL 36 - GENERAL PLAN
15.	WALL 37 - GENERAL PLAN
16.	WALL 38 - GENERAL PLAN
17.	WALL 39 - GENERAL PLAN
18.	WALL 39 - GENERAL PLAN
19.	WALL AIS 3 - GENERAL PLAN
20.	WALL 68 - GENERAL PLAN
21.	WALL 73A - GENERAL PLAN
22.	WALL 73B - GENERAL PLAN
23.	WALLS 33, 34, 35, 36, 37, 38, 39, AIS 3, 68, 73A, 73B - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
24.	WALL 67 - GENERAL PLAN
25.	WALL 67 - GENERAL PLAN
26.	WALL 67 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE
27.	WALL 72 - GENERAL PLAN
28.	WALL 72 - CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)
29.	WALLS 36, 38, 72, 73A, 73B - GATE PLAN AND NOTES
30.	WALLS 36, 38, 72, 73A, 73B - GATE ELEVATIONS
31.	WALLS 36, 38, 72, 73A, 73B - GATE SECTIONS
32.	WALLS 36, 38, 72, 73A, 73B - GATE SECTIONS AND DETAILS
33.	TC-8 DIST. 1, FREEWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS
34.	TC-17 DIST. 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
35.	TC-18 DIST. 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
36.	TC-22 DIST. 1, TEMPORARY INFORMATION SIGNING

INDEX OF STATE STANDARDS

STANDARD NO.	TITLE
664001-01	CHAIN LINK FENCE
701411-03	LANE CLOSURE MULTILANE AT ENTRANCE OR EXIT RAMP FOR SPEEDS ≥ 45 MPH
701601-04	URBAN LANE CLOSURE MULTILANE 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-04	URBAN LANE CLOSURE MULTILANE INTERSECTION
701801-03	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
702001-05	TRAFFIC CONTROL DEVICES

GENERAL NOTES:

1. THE CONTRACTOR SHALL NOT SET UP A YARD OR FIELD OFFICE ON IDOT PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
2. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
3. NIGHT OPERATIONS: WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTION IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AS WELL AS THE ADJOINING RESIDENTIAL AREAS.
4. ALL ELEVATIONS SHOWN ARE BASED ON THE CHICAGO CITY DATUM OF 0.00, WHICH IS 579.19 FEET ABOVE MEAN TIDE NEW YORK. (NAVD 88)
5. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
6. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCING OR WHERE PROPOSED FENCING TERMINATES AND EXISTING FENCE REMAINS IN PLACE.
7. THIS CONTRACT INCLUDES THE INSTALLATION OF FENCE ON RETAINING WALLS. THE PROPOSED RETAINING WALLS ARE CONSTRUCTED IN CONTRACT 62695 AND ARE SHOWN FOR INFORMATION ONLY.

SUMMARY OF QUANTITIES

CODE NUMBER	ITEM DESCRIPTION	UNIT	TOTAL	URBAN
				90% FEDERAL, 10% STATE
66410700	CHAIN LINK GATES (SPECIAL)	EACH	1	1
67100100	MOBILIZATION	L. SUM	1	1
70101800	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L. SUM	1	1
X0322256	TEMPORARY INFORMATION SIGNING	SQ FT	100	100
X6640050	CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL)	FOOT	7315	7315
X6640500	CHAIN LINK GATE ASSEMBLY (SPECIAL)	EACH	6	6
X7015000	CHANGEABLE MESSAGE SIGN	CAL.MO.	12	12
Z0013798	CONSTRUCTION LAYOUT	L. SUM	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L. SUM	1	1
X6640049	CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE	FOOT	930	930

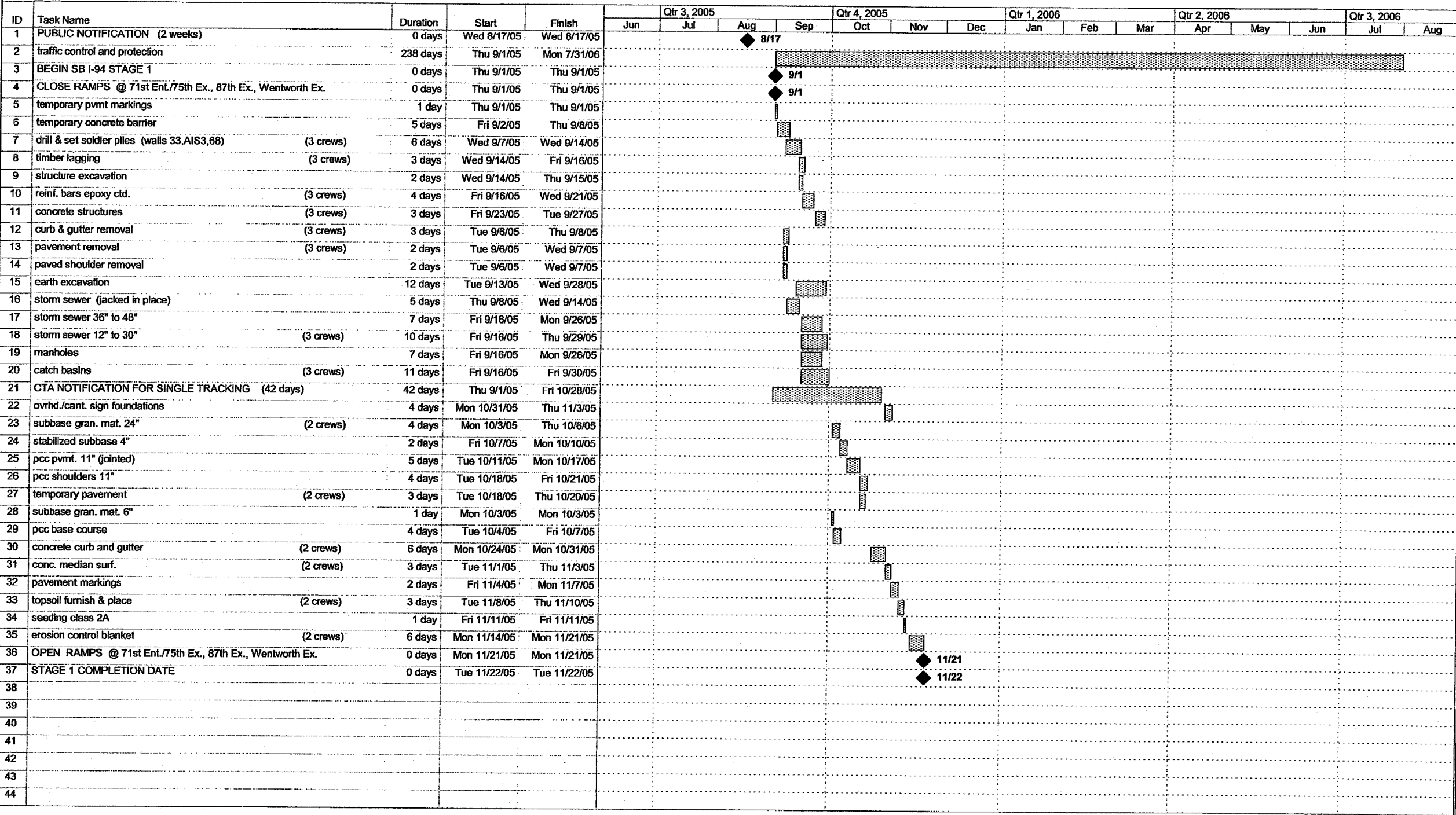


REVISIONS	
NAME	DATE

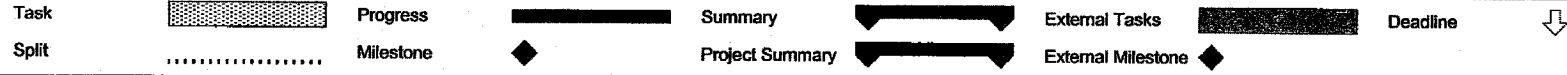
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
**INDEX OF SHEETS, INDEX OF STATE
STANDARDS, GENERAL NOTES,
& SUMMARY OF QUANTITIES**
SCALE: NONE DRAWN BY: JPA
DATE: APRIL 15, 2005 CHECKED BY: JPM

04/14/2005 10:43:52 AM

CONTRACT 62695



Project: 17B Construction Schedule
Date: Tue 3/29/05



FOR INFORMATION ONLY

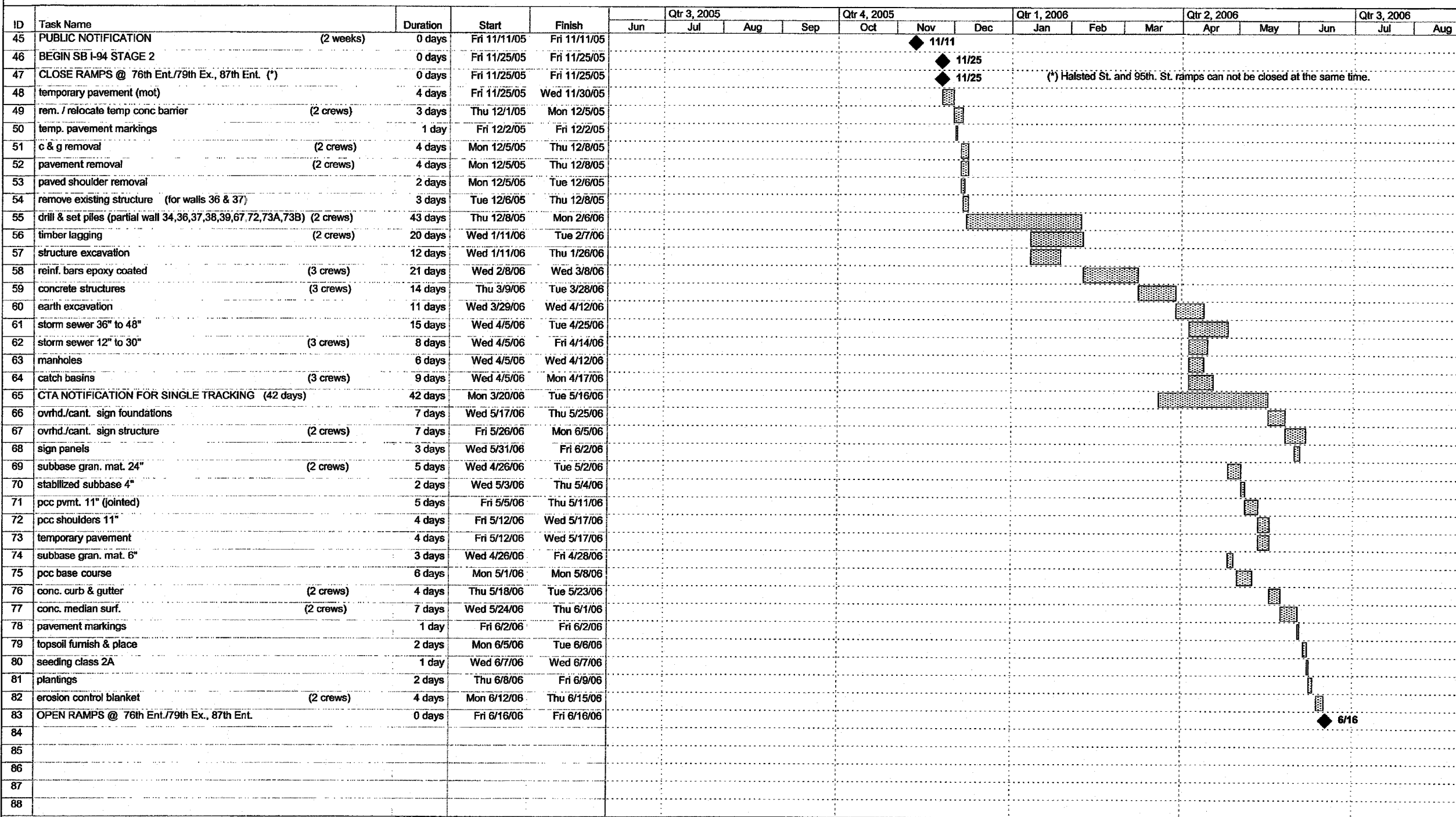
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NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
SUGGESTED CONSTRUCTION SEQUENCE
CONTRACT #62695 (17B)
SHEET 1 OF 4

S.N. _____ DESIGNED BY: _____
SCALE: NONE DRAWN BY: JPA
DATE: APRIL 15, 2005 CHECKED BY: MAG

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CONTRACT 62695



Project: 17B Construction Schedule
Date: Tue 3/29/05

Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone			

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

SUGGESTED CONSTRUCTION SEQUENCE
CONTRACT #62695 (17B)
SHEET 2 OF 4

SCALE: NONE DRAWN BY: JPA
DATE: APRIL 15, 2005 CHECKED BY: MAG

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CONTRACT 62695

ID	Task Name	Duration	Start	Finish	Qtr 3, 2005				Qtr 4, 2005			Qtr 1, 2006			Qtr 2, 2006			Qtr 3, 2006	
					Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug
89	PUBLIC NOTIFICATION (2 weeks)	0 days	Mon 4/17/06	Mon 4/17/06															
90	CLOSE RAMP @ 95th Ex.	0 days	Mon 5/1/06	Mon 5/1/06															
91	rem. / relocate temp conc barrier (2 crews)	2 days	Mon 5/1/06	Tue 5/2/06															
92	temp. pavement markings	1 day	Wed 5/3/06	Wed 5/3/06															
93	c & g removal (2 crews)	2 days	Thu 5/4/06	Fri 5/5/06															
94	pavement removal (2 crews)	2 days	Thu 5/4/06	Fri 5/5/06															
95	paved shoulder removal	1 day	Thu 5/4/06	Thu 5/4/06															
96	drill & set piles (partial wall 34, 35) (2 crews)	8 days	Mon 5/8/06	Wed 5/17/06															
97	timber lagging	7 days	Fri 5/12/06	Mon 5/22/06															
98	structure excavation	2 days	Fri 5/12/06	Mon 5/15/06															
99	reinf. bars epoxy coated (2 crews)	4 days	Thu 5/18/06	Tue 5/23/06															
100	concrete structures (2 crews)	3 days	Mon 5/22/06	Wed 5/24/06															
101	earth excavation	6 days	Thu 5/25/06	Thu 6/1/06															
102	storm sewer 36" to 48"	3 days	Fri 5/26/06	Tue 5/30/06															
103	storm sewer 12" to 30" (3 crews)	6 days	Fri 5/26/06	Fri 6/2/06															
104	manholes	4 days	Fri 5/26/06	Wed 5/31/06															
105	catch basins (2 crews)	5 days	Fri 5/26/06	Thu 6/1/06															
106	CTA NOTIFICATION FOR SINGLE TRACKING (42 days)	42 days	Thu 4/6/06	Fri 6/2/06															
107	ovrhd./cant. sign foundations	5 days	Mon 6/5/06	Fri 6/9/06															
108	ovrhd./cant. sign structure (2 crews)	5 days	Mon 6/12/06	Fri 6/16/06															
109	sign panels	2 days	Mon 6/19/06	Tue 6/20/06															
110	subbase gran. mat. 24"	3 days	Mon 6/5/06	Wed 6/7/06															
111	stabilized subbase 4"	1 day	Thu 6/8/06	Thu 6/8/06															
112	pcc pvmt. 11" (jointed)	4 days	Fri 6/9/06	Wed 6/14/06															
113	pcc shoulders 11"	4 days	Thu 6/15/06	Tue 6/20/06															
114	temporary pavement	2 days	Thu 6/15/06	Fri 6/16/06															
115	conc. curb & gutter	3 days	Wed 6/21/06	Fri 6/23/06															
116	pavement markings	1 day	Mon 6/26/06	Mon 6/26/06															
117	topsoil furnish & place	1 day	Tue 6/27/06	Tue 6/27/06															
118	seeding class 2A	1 day	Wed 6/28/06	Wed 6/28/06															
119	erosion control blanket (2 crews)	2 days	Thu 6/29/06	Fri 6/30/06															
120	OPEN RAMP @ 95th Ex.	0 days	Fri 6/30/06	Fri 6/30/06															
121																			
122	PUBLIC NOTIFICATION (2 weeks)	0 days	Sat 6/17/06	Sat 6/17/06															
123	CLOSE RAMP @ Halsted Ex.	0 days	Sat 7/1/06	Sat 7/1/06															
124	rem. / relocate temp conc barrier (2 crews)	1 day	Mon 7/3/06	Mon 7/3/06															
125	temp. pavement markings	1 day	Tue 7/4/06	Tue 7/4/06															
126	curb & gutter removal	2 days	Wed 7/5/06	Thu 7/6/06															
127	pavement removal	2 days	Wed 7/5/06	Thu 7/6/06															
128	paved shoulder removal	1 day	Wed 7/5/06	Wed 7/5/06															
129	earth excavation	1 day	Fri 7/7/06	Fri 7/7/06															
130	storm sewer 12" to 30" (2 crews)	3 days	Mon 7/10/06	Wed 7/12/06															
131	manholes	1 day	Mon 7/10/06	Mon 7/10/06															
132	catch basins (2 crews)	2 days	Mon 7/10/06	Tue 7/11/06															

Project: 17B Construction Schedule
Date: Tue 3/29/05

Task Progress Summary External Tasks Deadline

Split Milestone Project Summary External Milestone

FOR INFORMATION ONLY

REVISIONS	
NAME	DATE

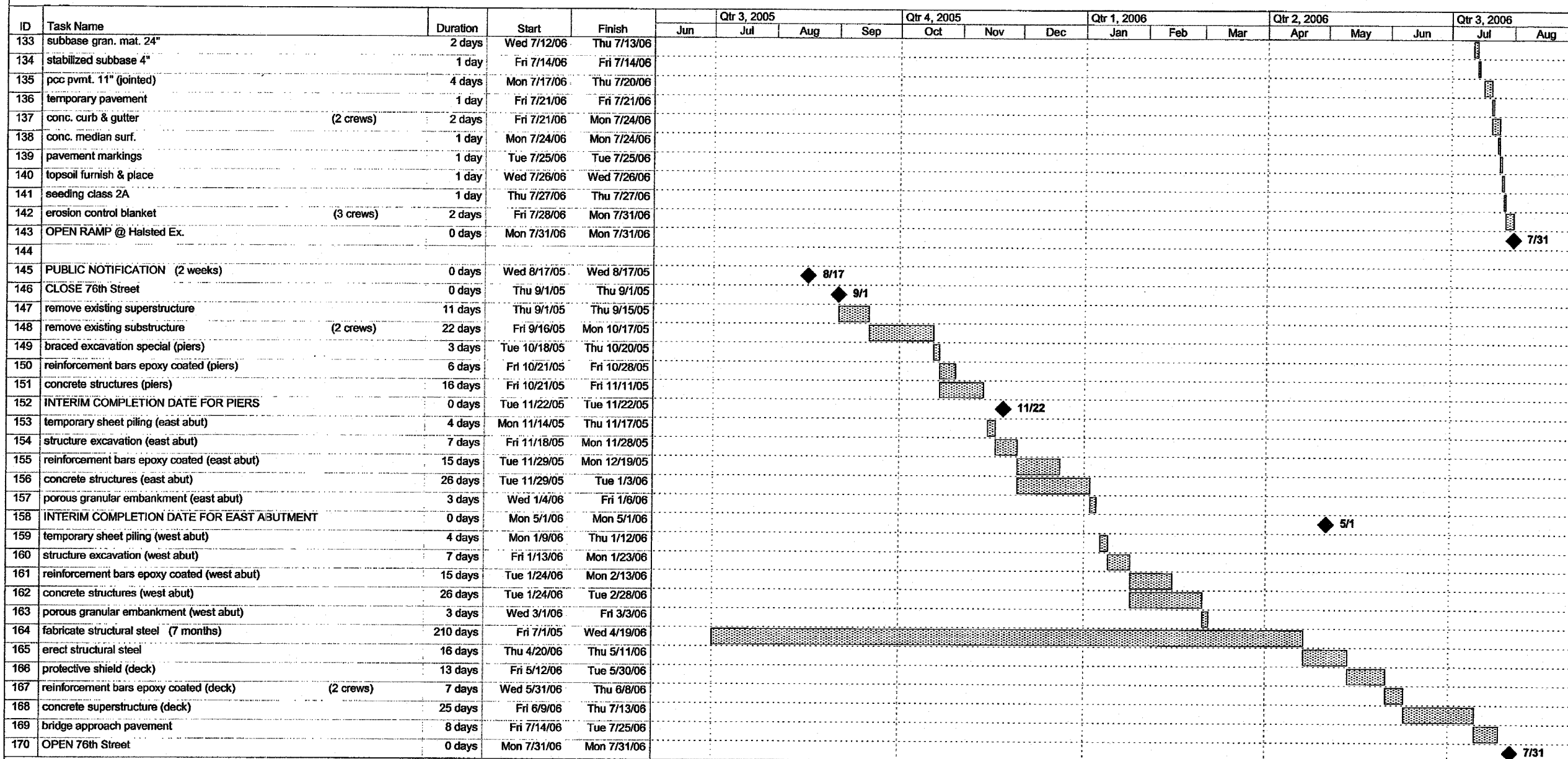
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

SUGGESTED CONSTRUCTION SEQUENCE
CONTRACT #62695 (17B)
SHEET 3 OF 4

SCALE: NONE DRAWN BY: JPA
DATE: APRIL 15, 2005 CHECKED BY: MAG

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CONTRACT 62695



Project: 17B Construction Schedule
Date: Tue 3/29/05

Task		Progress		Summary		External Tasks		Deadline	
Split		Milestone		Project Summary		External Milestone			

FOR INFORMATION ONLY

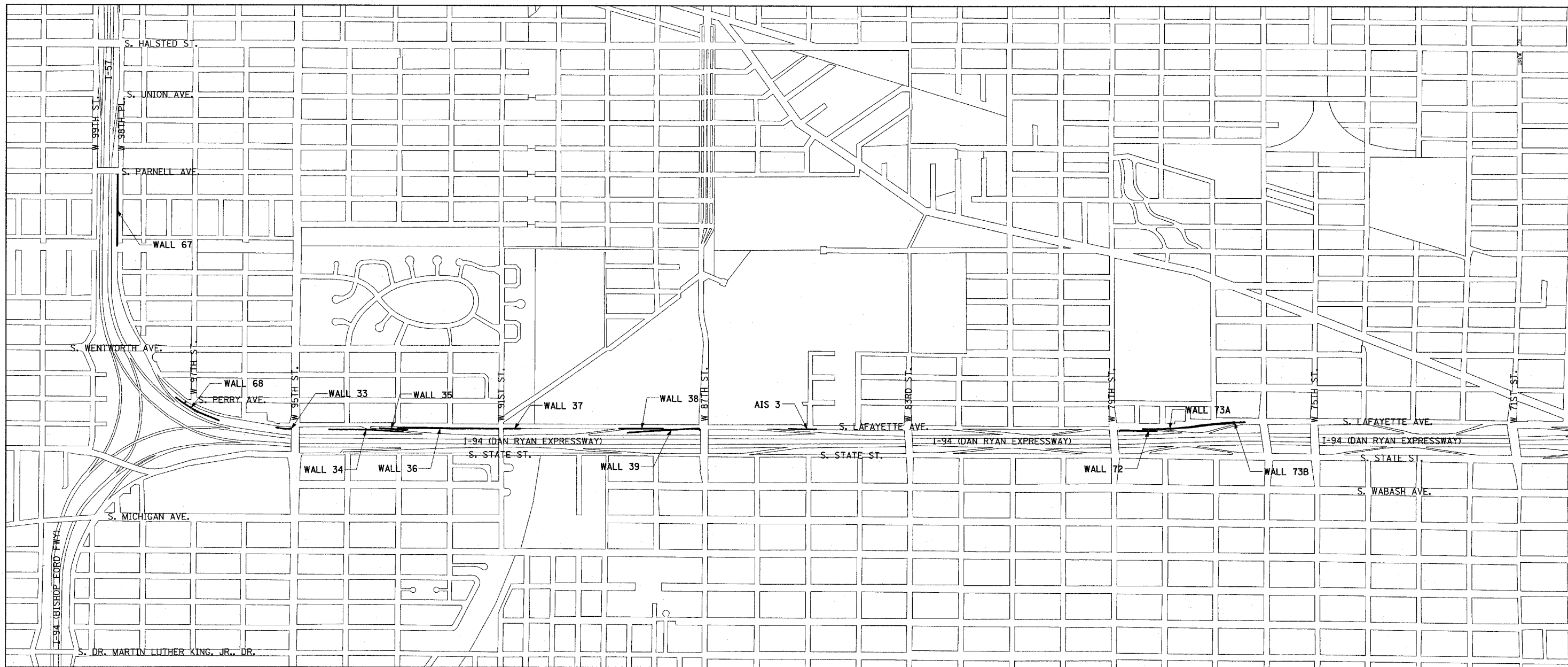
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)

SUGGESTED CONSTRUCTION SEQUENCE
CONTRACT #62695 (17B)
SHEET 4 OF 4

SCALE: NONE DRAWN BY: JPA
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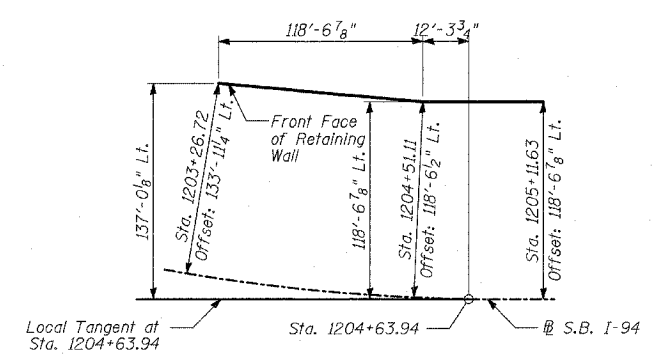
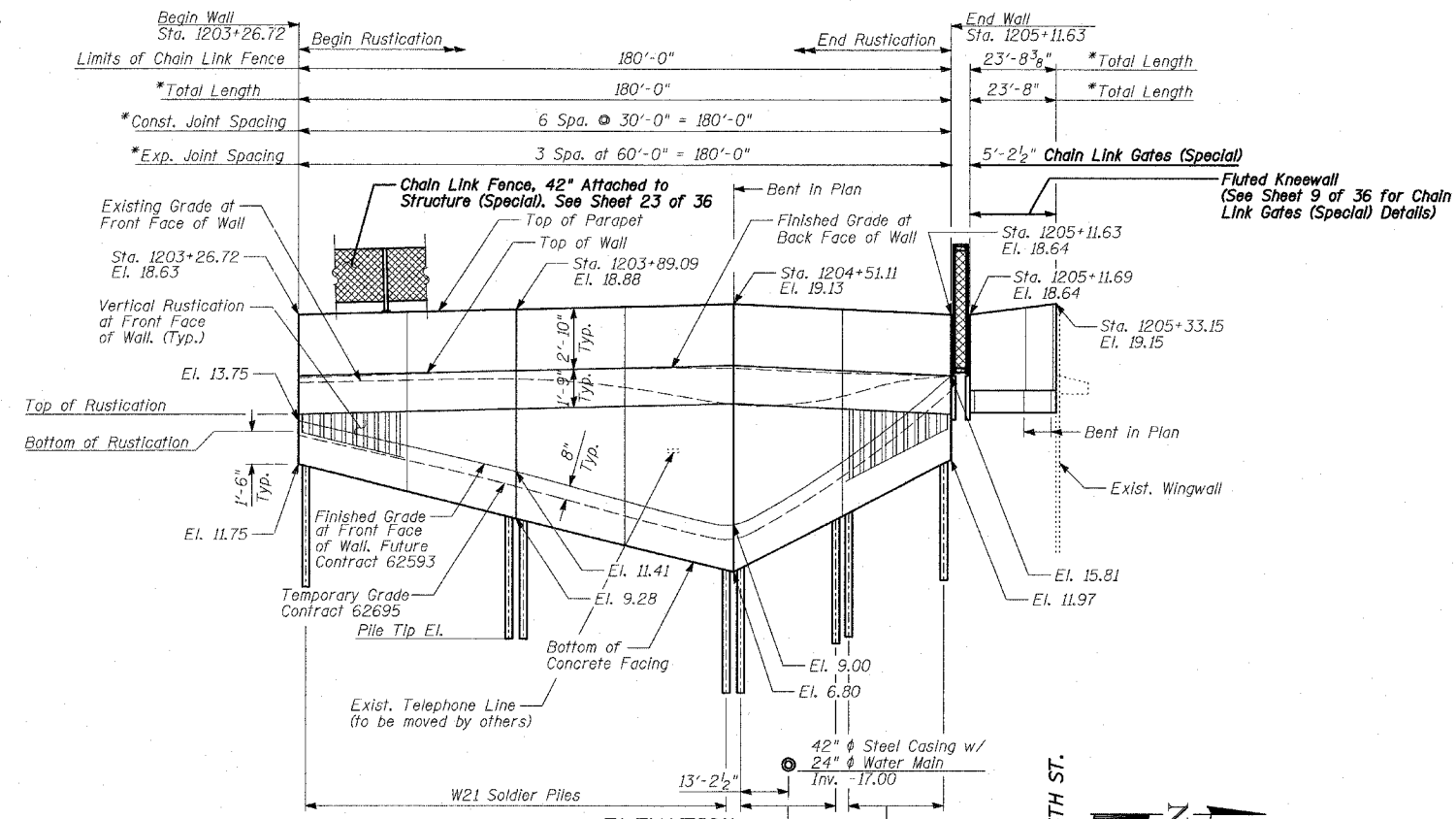
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
LOCATION PLAN
SB RETAINING WALLS
 SCALE: NOT TO SCALE
 DATE: APRIL 15, 2005
 DRAWN BY: JDF
 CHECKED BY: TGB

Benchmarks: BM 3551 Set "+" northerly flange bolt of hydrant at southwest intersection of 95th St. and Lafayette Ave. El. 17.50

Existing Structure: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	8
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
* (1516.1, 1717 & 1818) I-2				62931



CURVE DATA

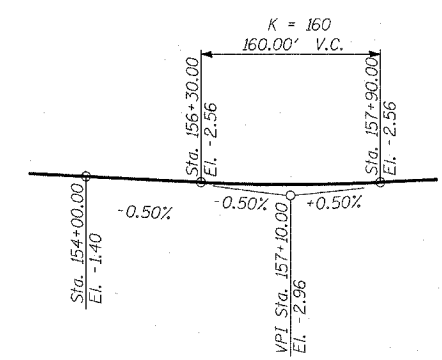
$\Delta = 9^\circ 05' 16.13''$ (L.I.)
 $D = 1^\circ 57' 31.79''$
 $R = 2,925.00$
 $L = 463.94$
 $E = 9.22$
 $T = 232.46$
 $PC = \text{Sta. } 1200+00.00$
 $PI = \text{Sta. } 1202+32.46$
 $PT = \text{Sta. } 1204+63.94$

OFFSET SKETCH

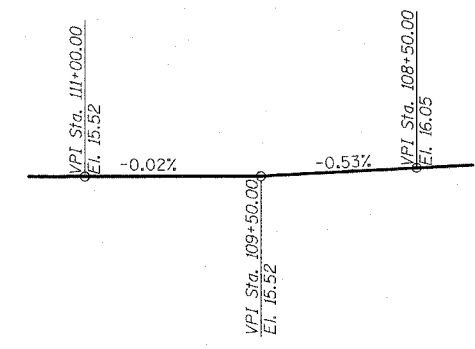
DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Solder Piles

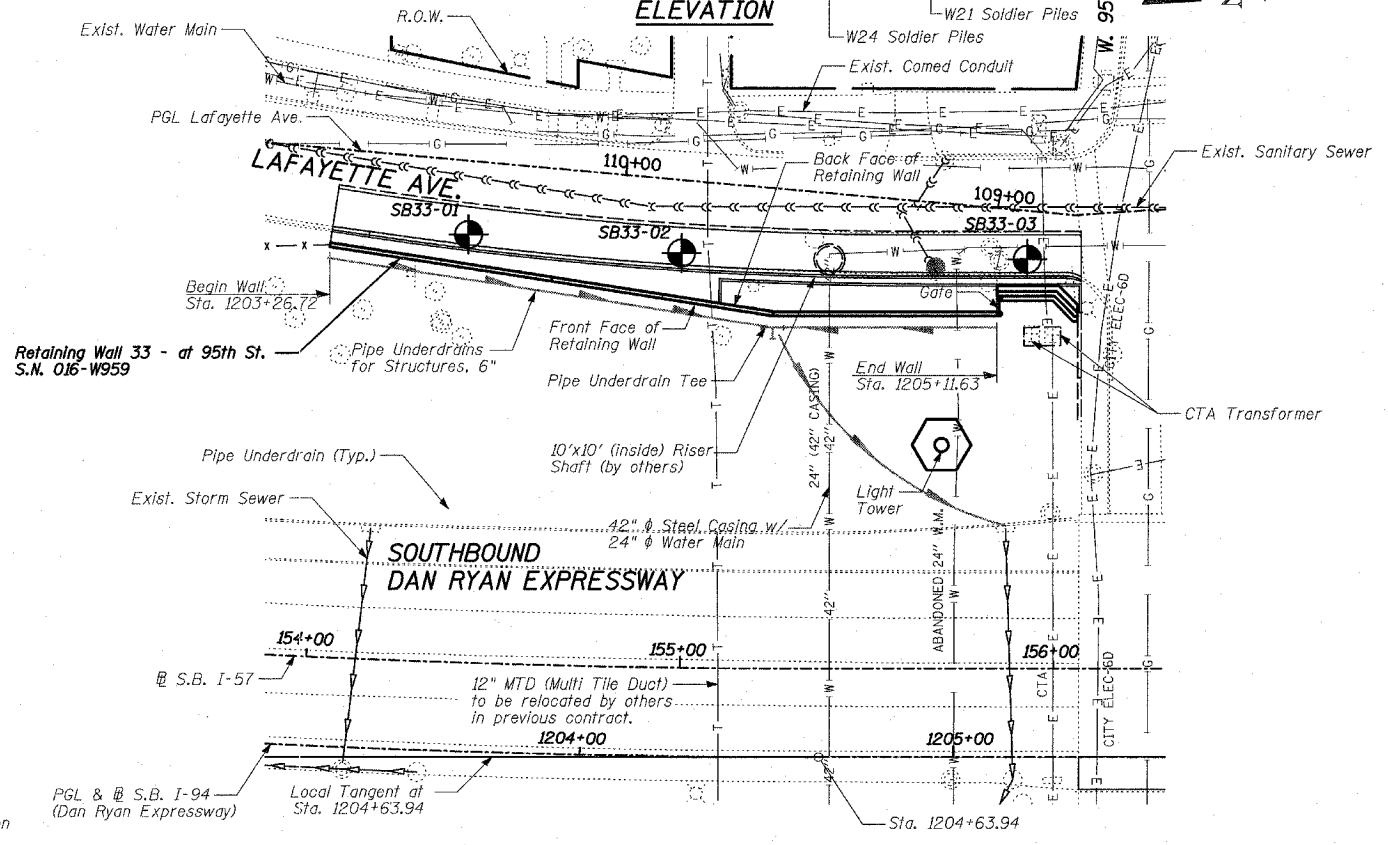
LOADING
 Max. Soil Pressure Under Footing = 1800 psf



PROFILE GRADE
 (S.B. I-57)



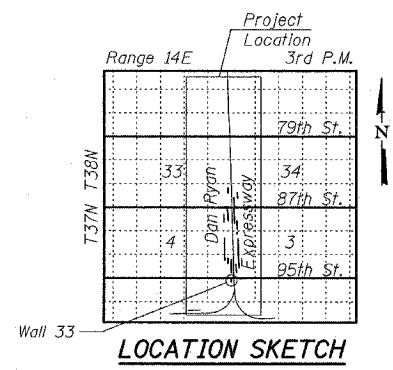
PROFILE GRADE
 (Lafayette Ave.)



PLAN

LEGEND
 Boring Location
 * Measured along Front Face of Wall.

WARNING: Existing conduit servicing the CTA transformer at the south corner of Lafayette Ave. and 95th Street crosses under the proposed Knee Wall. Location of conduit placed per existing plans and may not reflect actual location.

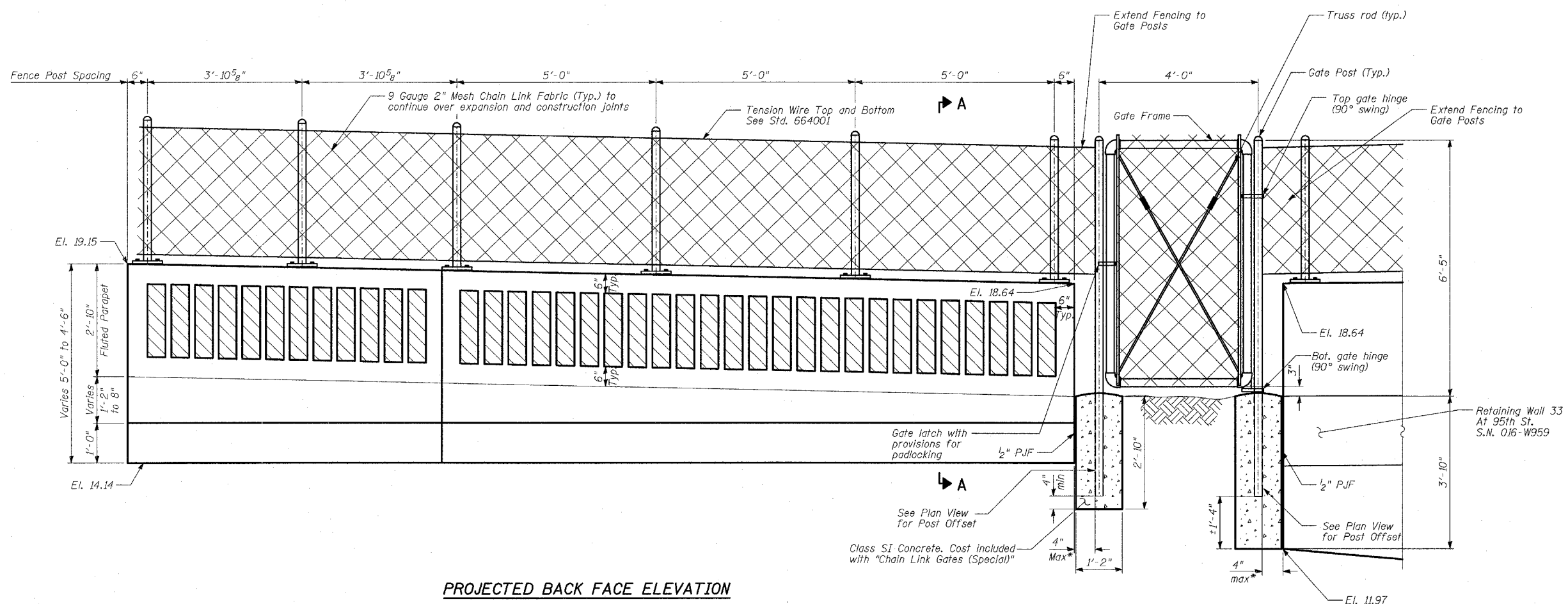


LOCATION SKETCH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 AT 95TH ST.
 WALL 33 - GENERAL PLAN
 STA. 1203+26.72 TO STA. 1205+11.63
 S.N. 016-W959
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, TB
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

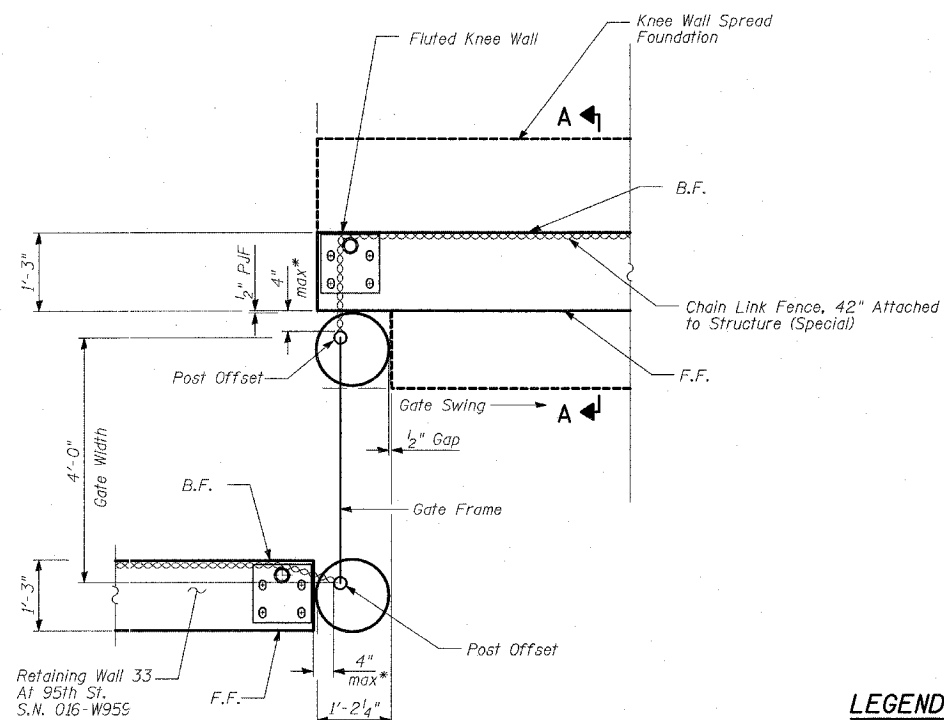


PROJECTED BACK FACE ELEVATION

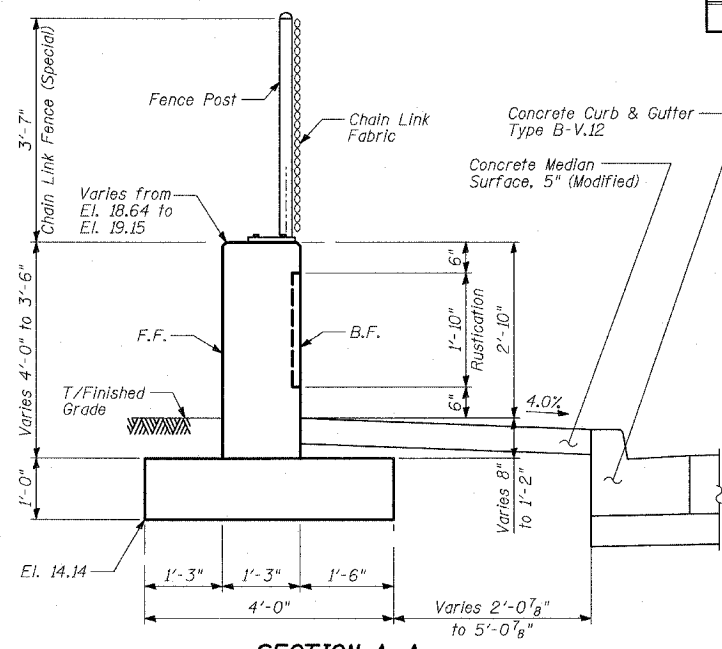
CHAIN LINK GATES (SPECIAL)

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
33	Chain Link Gates (Special)	EACH	1



PLAN VIEW



SECTION A-A

Sta. 1205+11.69 to Sta. 1205+33.15

LEGEND

F.F. - denotes Front Face
 B.F. - denotes Back Face
 * - Refer to Standard 664001-01

REVISIONS	
NAME	DATE

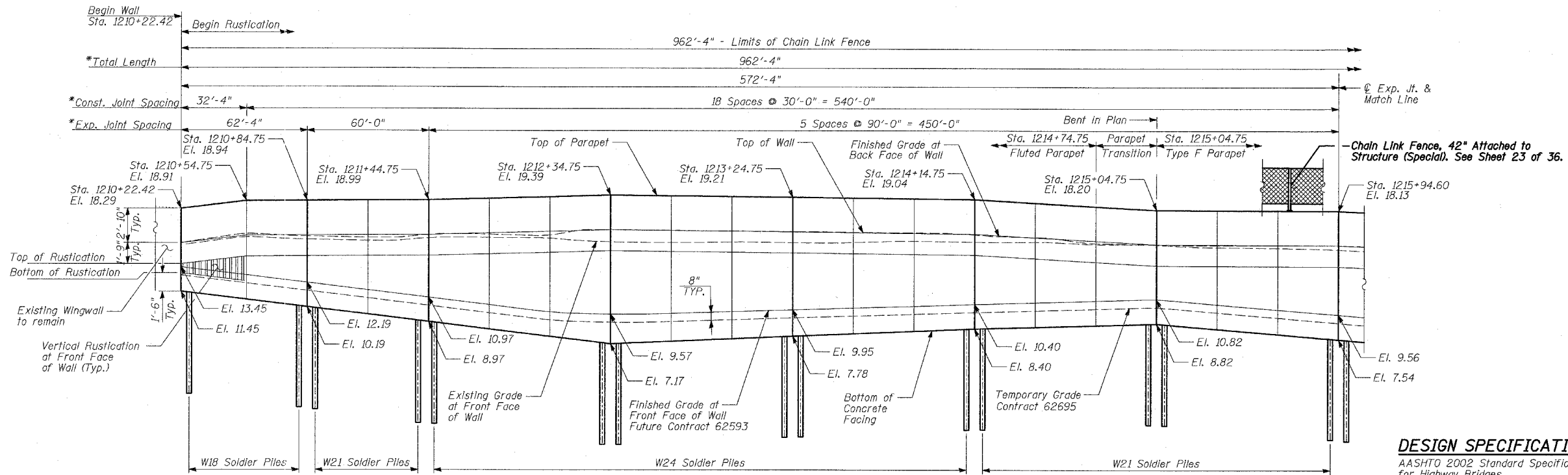
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 AT 95TH ST.
 WALL 33 - CHAIN LINK GATES (SPECIAL)

SCALE: N.T.S
 DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, BK
 CHECKED BY: TD, MI

Benchmarks: BM 3551 Set "+" northerly flange bolt of hydrant at southwest intersection of 95th St. and Lafayette Ave. El. 17.50
 Existing Structure: None.

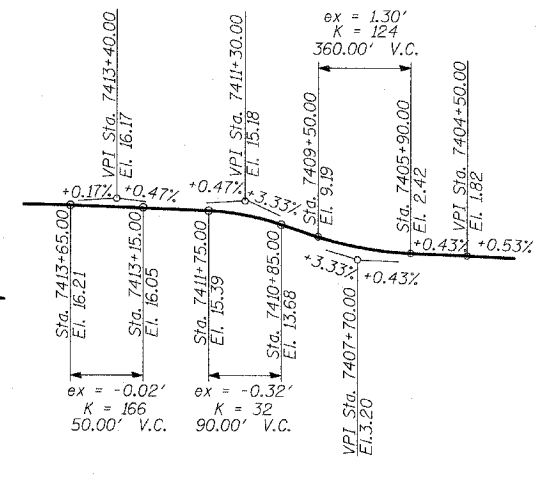
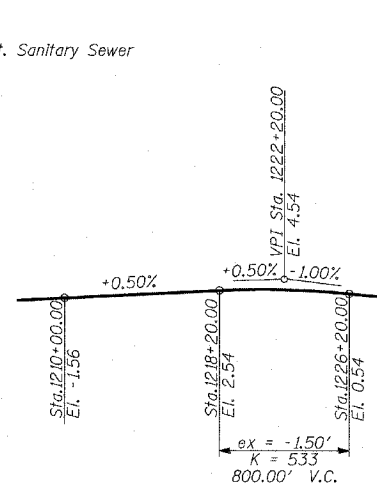
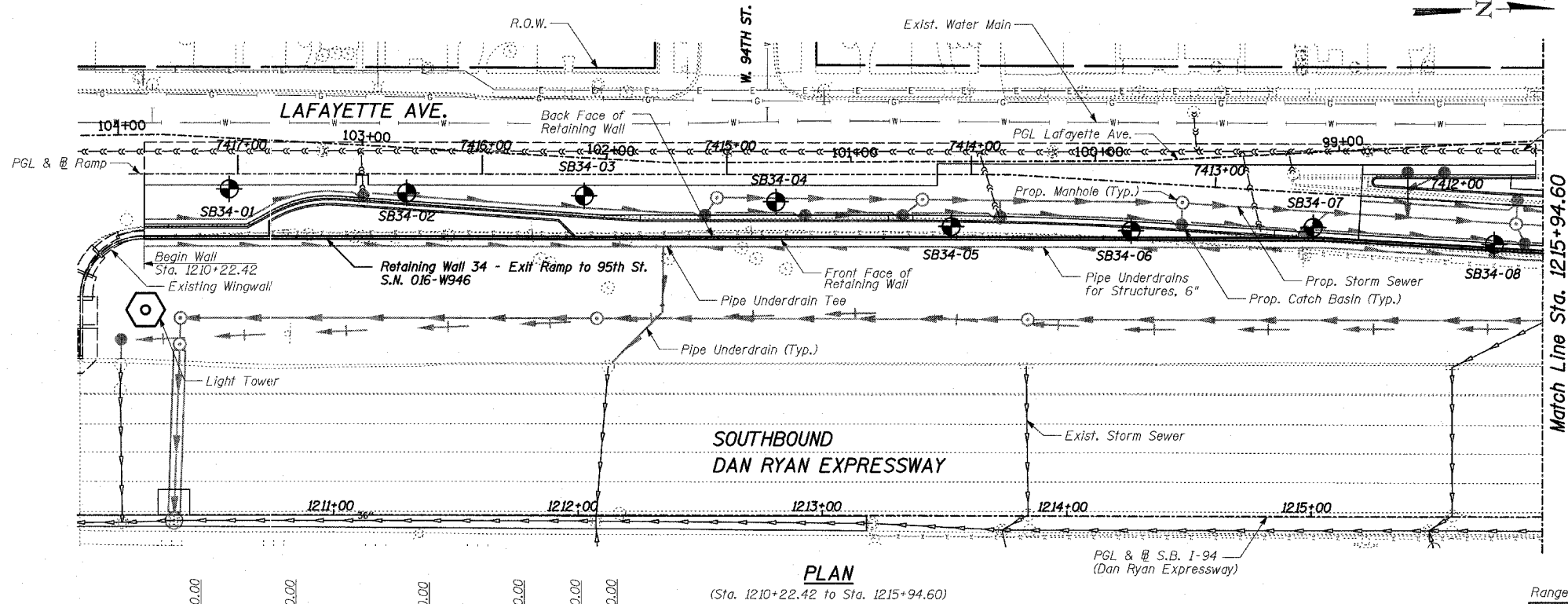
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	10
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (1516.1, 1717 & 1818) I-2		62931		



DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

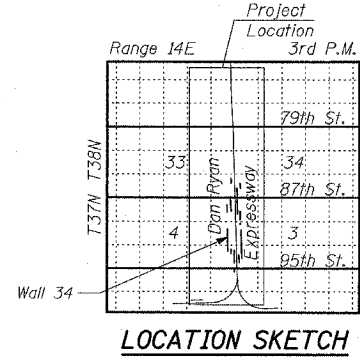
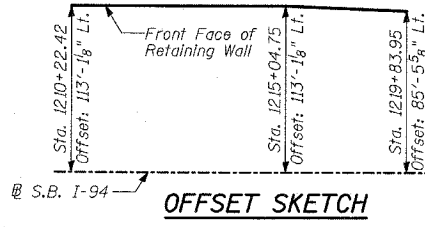
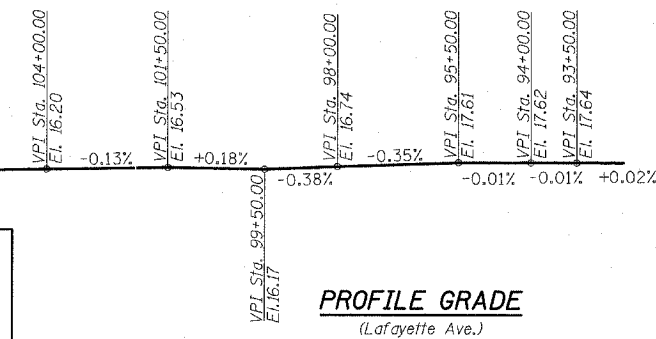
DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)
 Solder Piles



LEGEND

• Boring Location
 * Measured along Front Face of Wall.

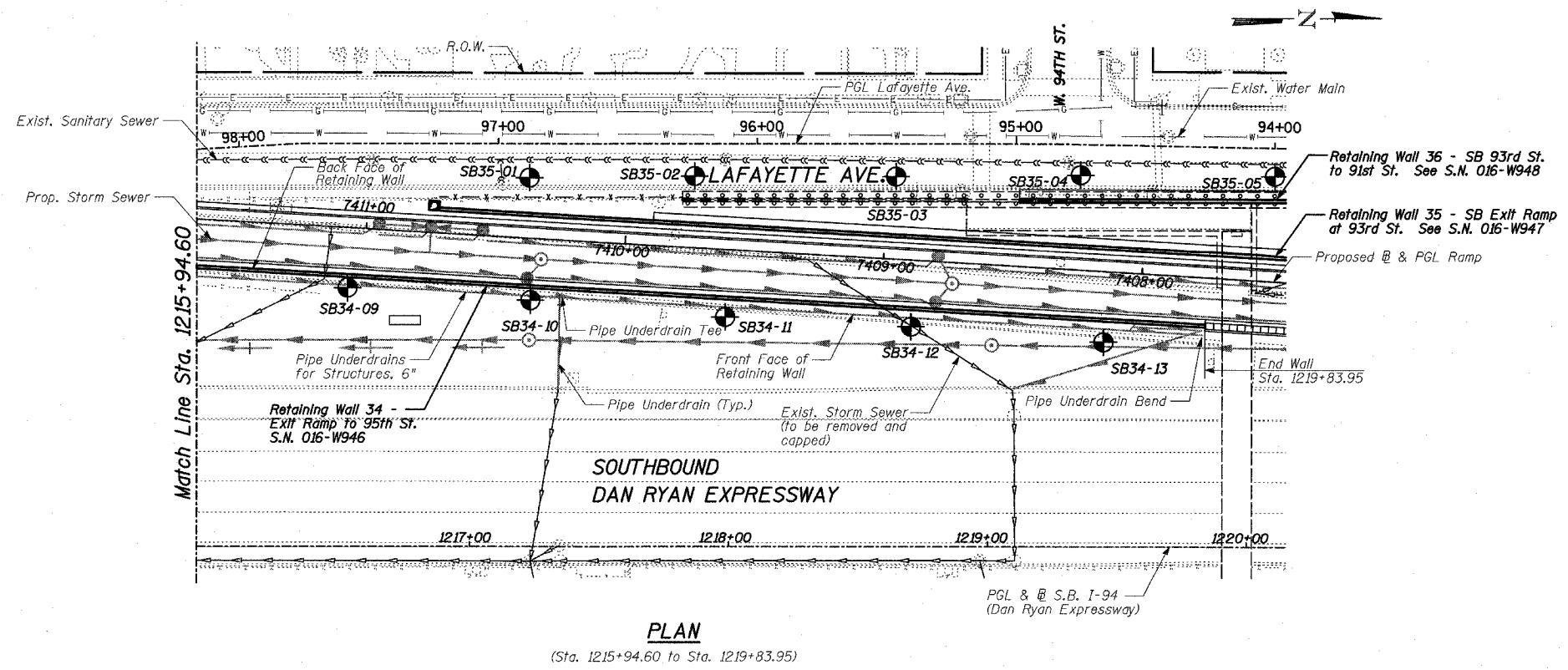
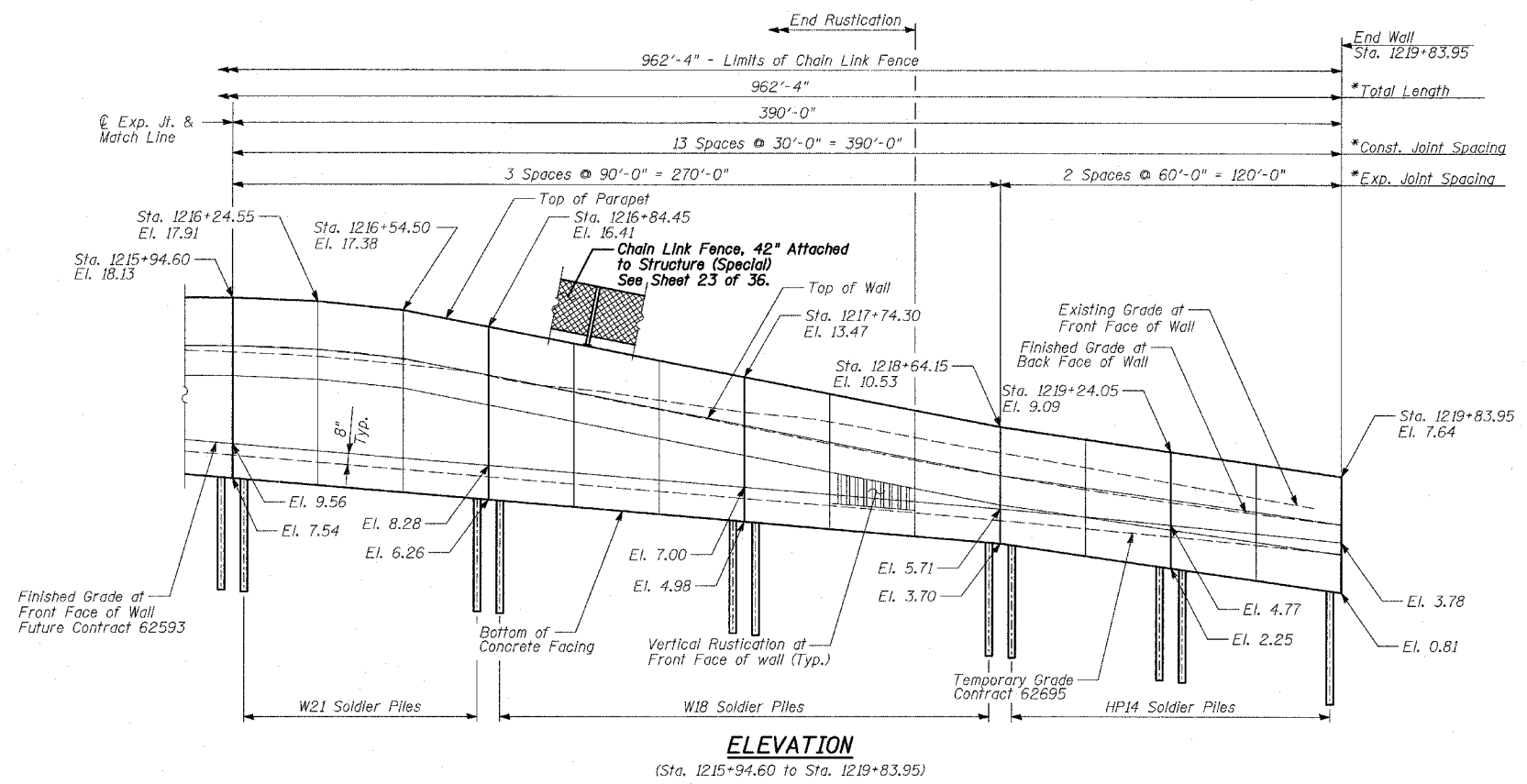


REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
EXIT RAMP TO 95TH ST.
WALL 34 - GENERAL PLAN
 STA. 1210+22.42 TO STA. 1219+83.95
 S.N. 016-W946
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

P:\0231\Road\7\Inpelt\7\1210231a_w946.dgn 4/14/2005 7:17:07 AM



LEGEND

- ◆ Boring Location
- * Measured along Front Face of Wall.

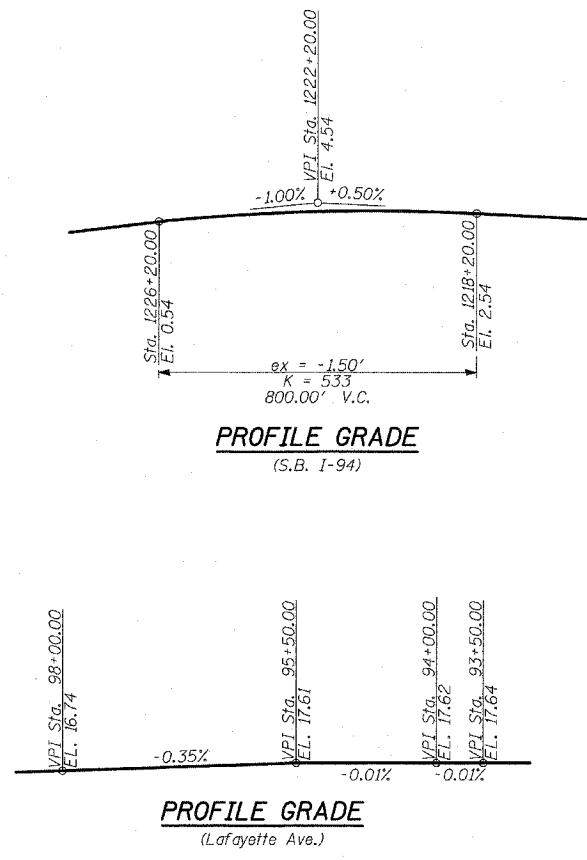
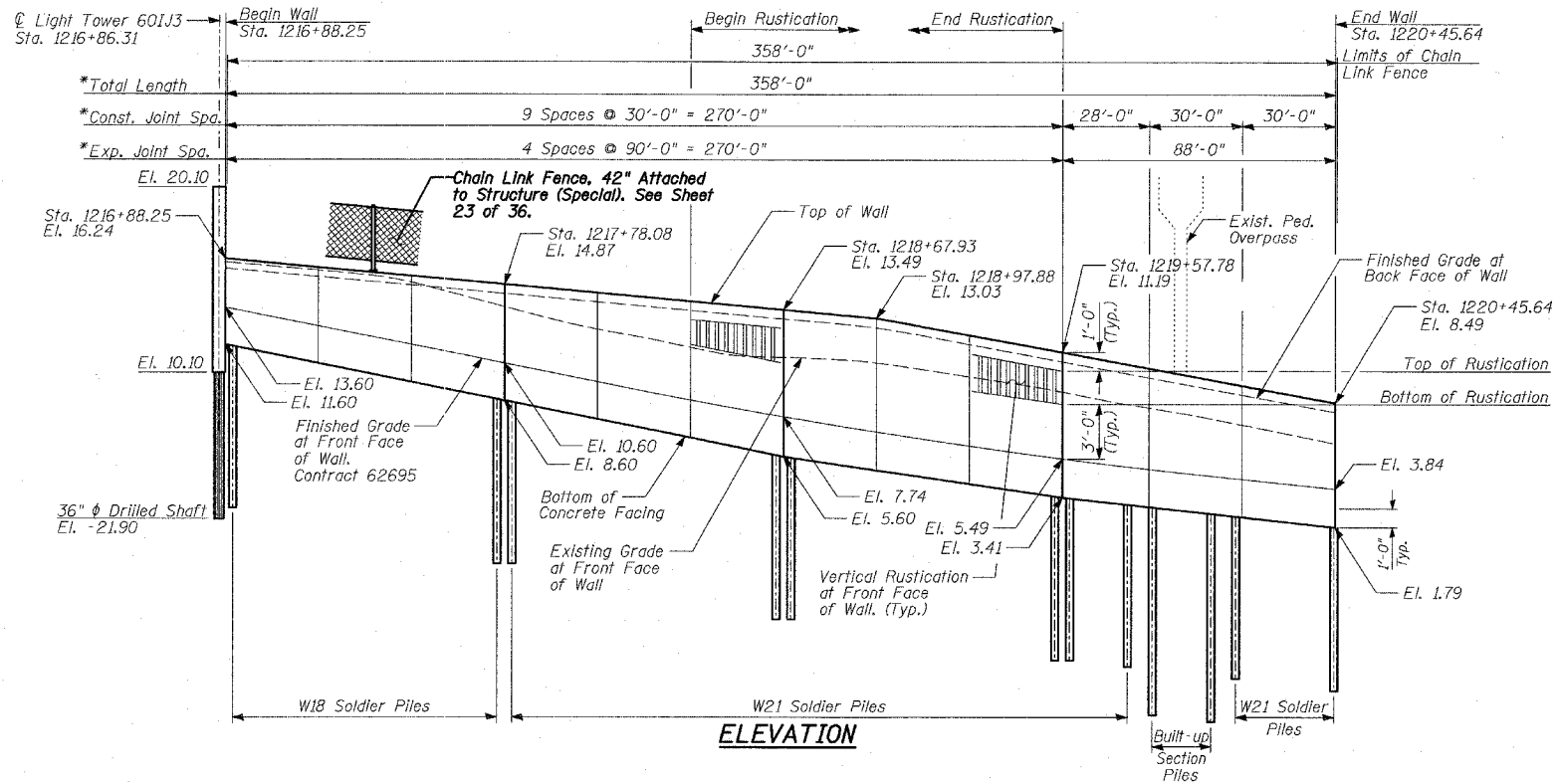
TYLIN INTERNATIONAL

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94 (DAN RYAN EXPRESSWAY) RETAINING WALL ALONG LAFAYETTE AVE. EXIT RAMP TO 95TH ST. WALL 34 - GENERAL PLAN STA. 1210+22.42 TO STA. 1219+83.95 S.N. 016-W946
NAME	DATE	
		DESIGNED BY: MI, DJR
		SCALE: N.T.S.
		DATE: APRIL 15, 2005
		DRAWN BY: DJR, TB
		CHECKED BY: TD, MI

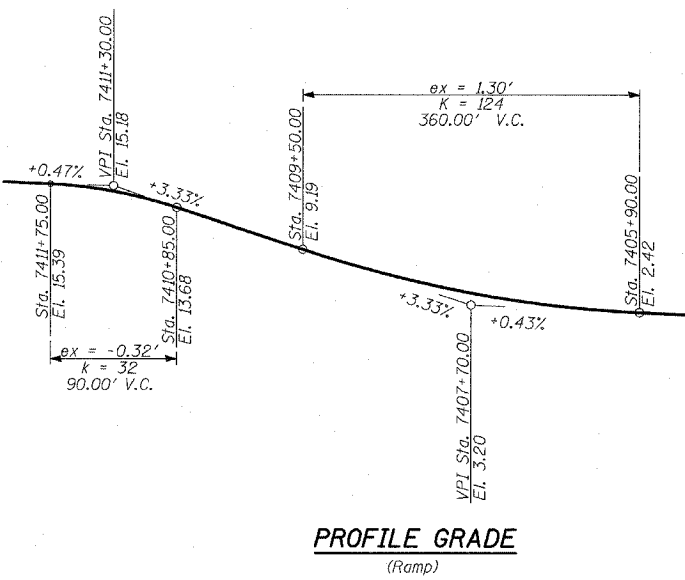
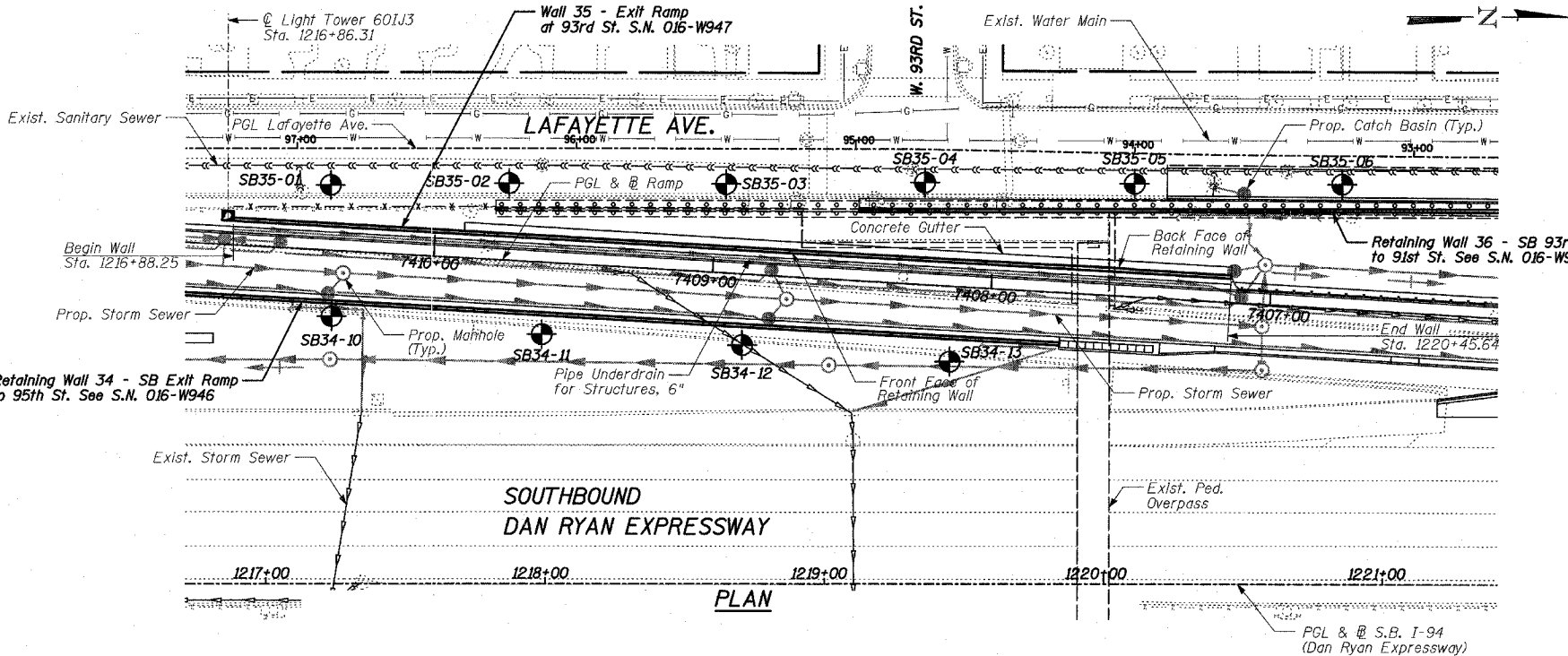
4/14/2005 11:14 AM

Benchmarks: BM 3550 Set "+" westerly flange bolt of hydrant at southwest intersection of 91st St. and Lafayette Ave. El. 22.88

Existing Structure: None



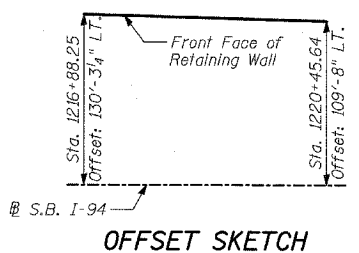
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	12
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
* (1516.1, 1717 & 1818) I-2		62931		



DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

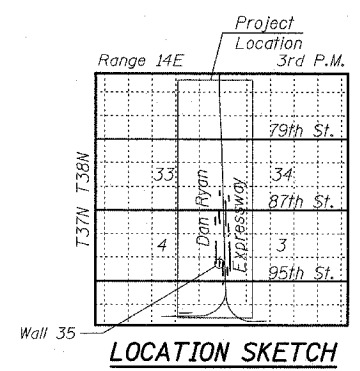
DESIGN STRESSES
FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Soldier Piles



LEGEND
 Boring Location
 * Measured along Front Face of Wall.

TYLIN INTERNATIONAL



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
EXIT RAMP AT 93RD ST.
WALL 35 - GENERAL PLAN
STA. 1216+88.25 TO STA. 1220+45.64
 S.N. 016-W947
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, MAF
 DRAWN BY: MAF, TB
 CHECKED BY: TD, MI

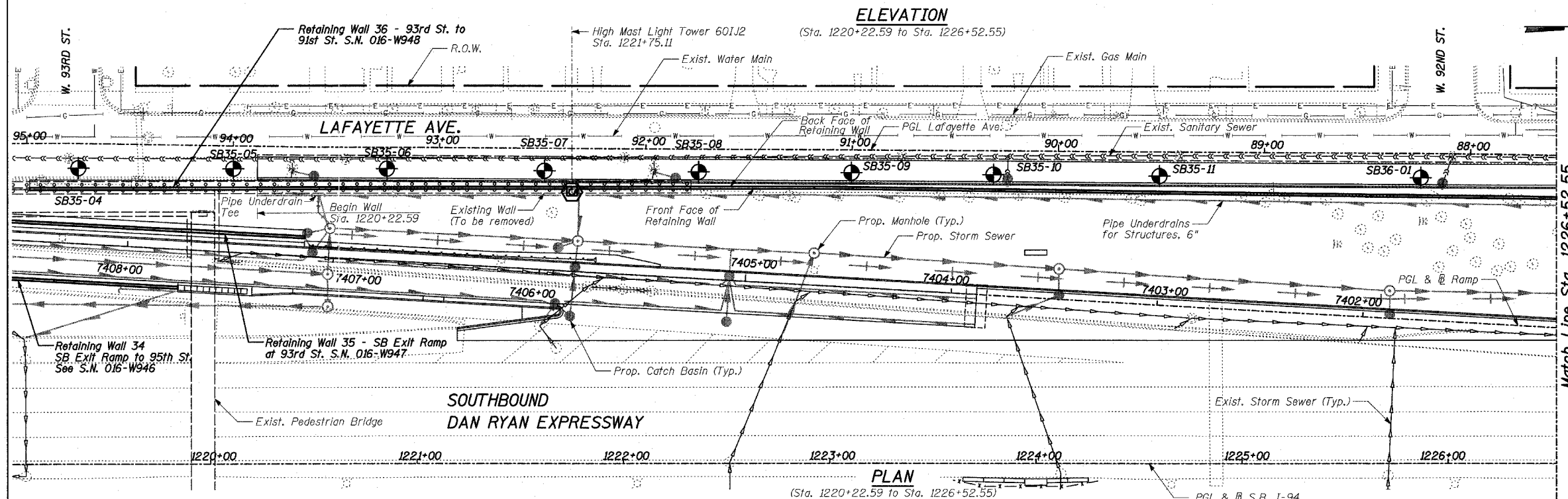
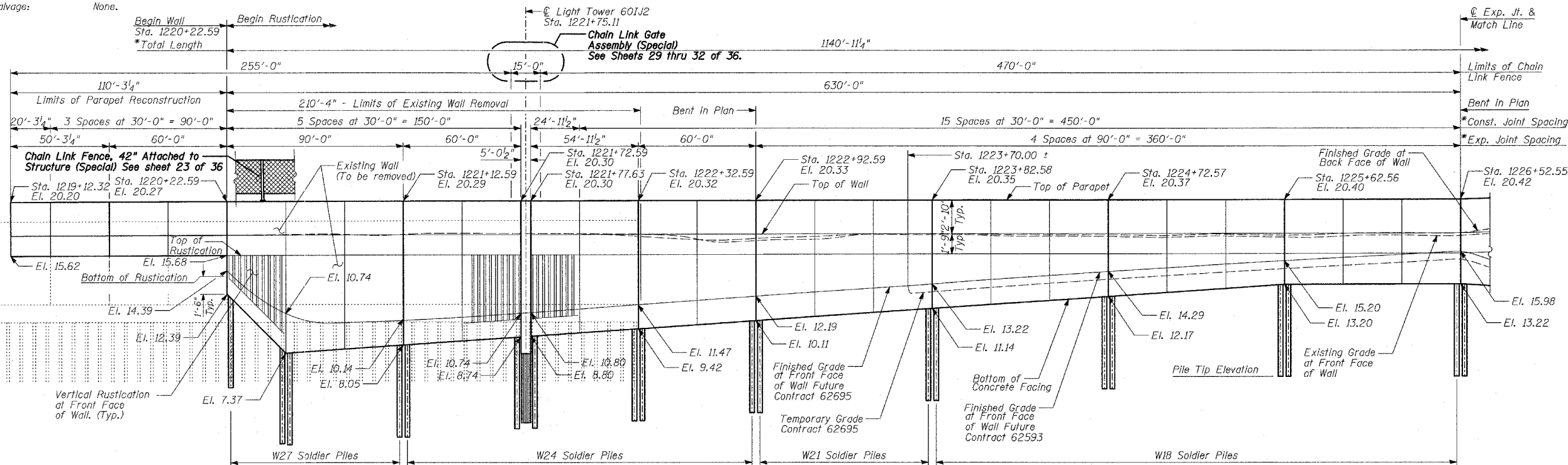
1/14/2005 7:17:24 AM

Benchmarks: BM 3550 Set "+" westerly flange bolt of hydrant at southwest intersection of 91st St. and Lafayette Ave. El. 22.88

Existing Structure: Reinforced concrete cantilever retaining wall, supported on concrete pile footings, along East edge of Lafayette Avenue, at 93rd St. Built in 1960. Total length ±450'-6".**
Reinforced concrete cantilever retaining wall, supported on concrete pile footings, along East edge of Lafayette Avenue, at 91st St. Built in 1960. Total length ±240'.

Salvage: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	13
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2				62931



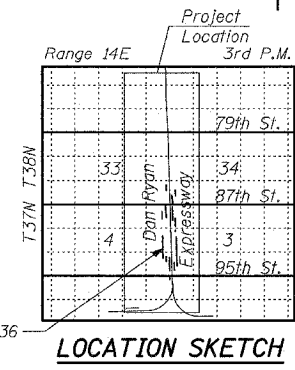
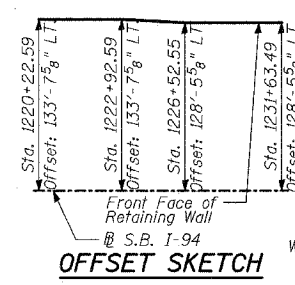
DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (M270 Grade 36) Soldier Piles

LEGEND

- Boring Location
- * Measured along Front Face of Wall.
- ** Portions of existing walls to be removed to accommodate proposed wall.

TYLIN INTERNATIONAL



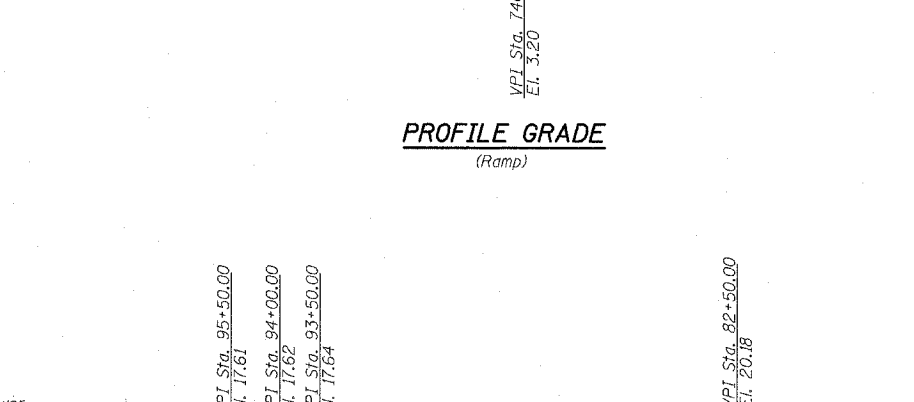
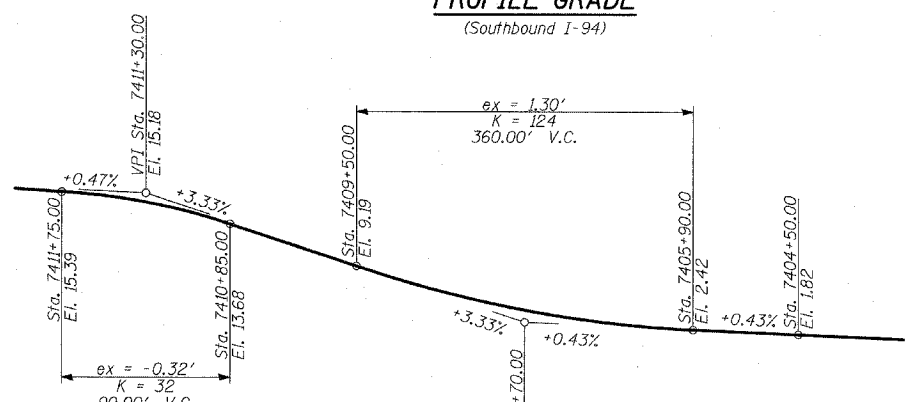
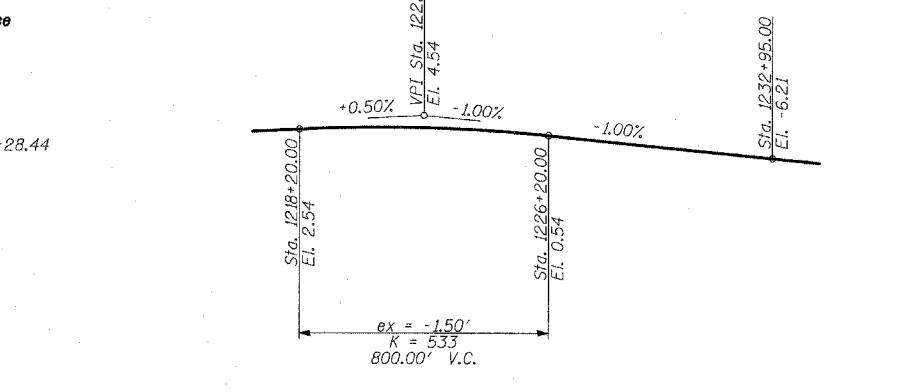
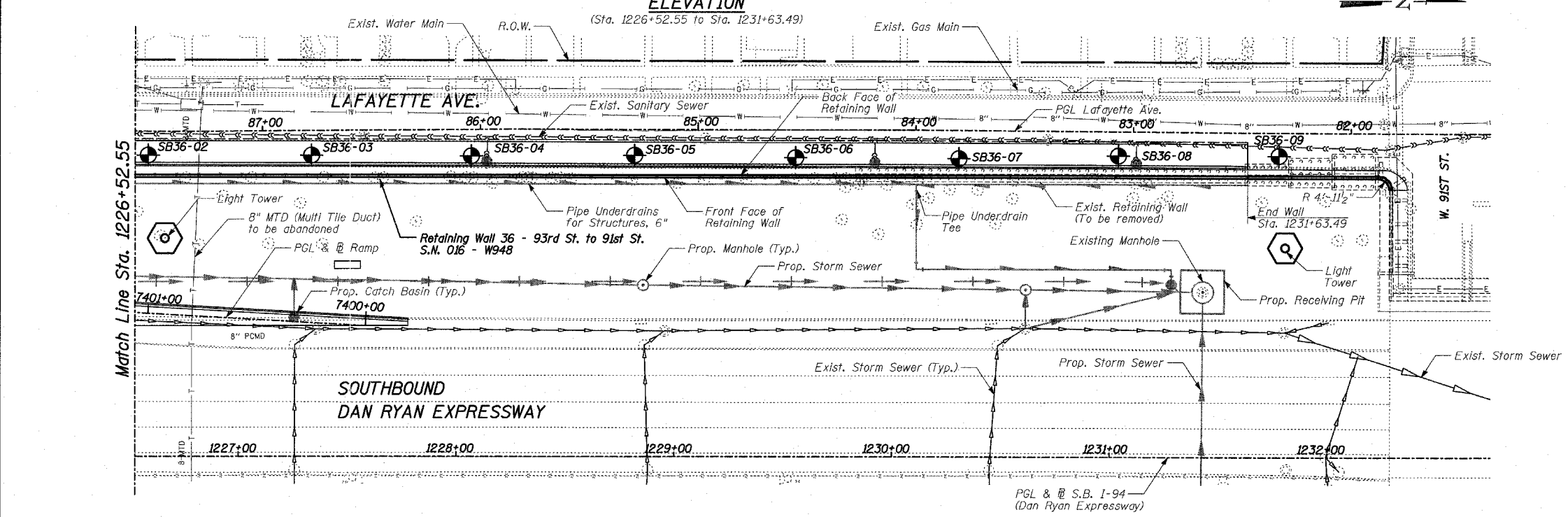
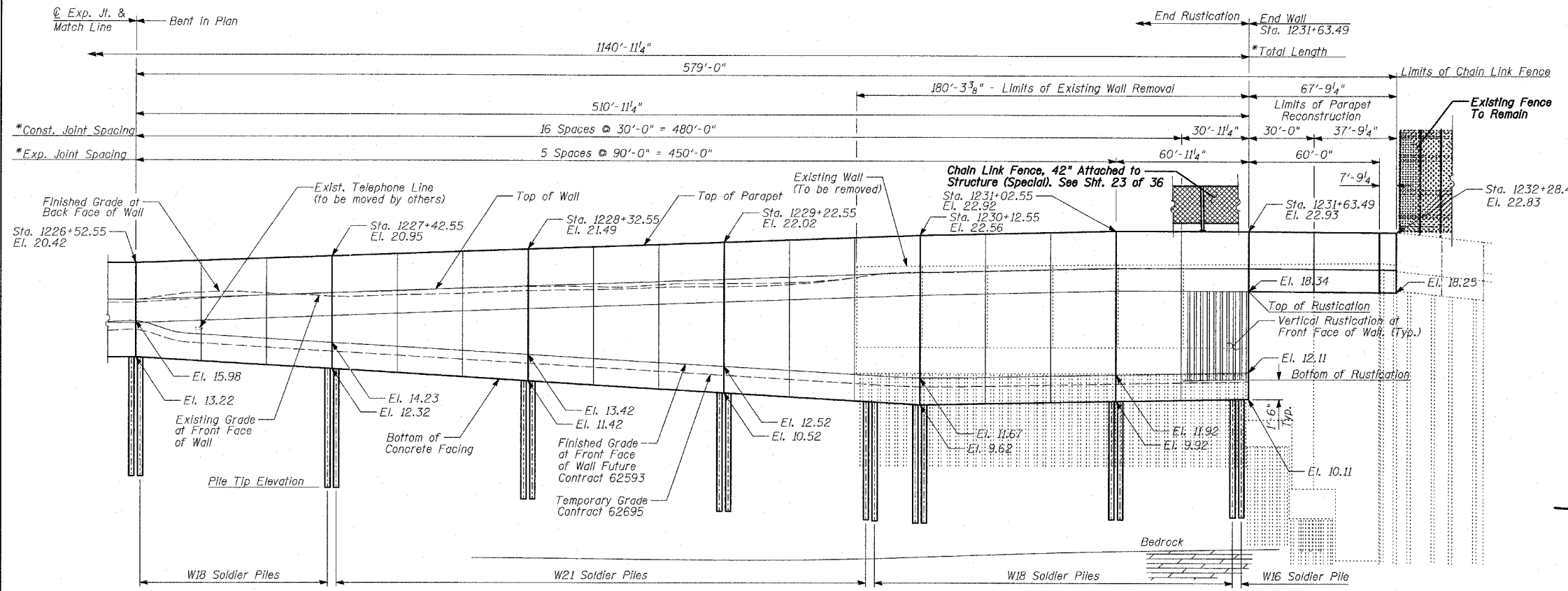
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
93RD ST. TO 91ST ST.
WALL 36 - GENERAL PLAN
 STA. 1220+22.59 TO STA. 1231+63.49
 S.N. 016-W948
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

4/14/2005 7:17:31 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	14
STA. 1200+00.00 TO STA. 1330+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		• (1516.1, 1717 & 1818) I-2		
62931				



LEGEND
 • Boring Location
 * Measured along Front Face of Wall.

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
93RD ST. TO 91ST ST.
WALL 36 - GENERAL PLAN
STA. 1220+22.59 TO STA. 1231+63.49
 S.N. 016-W948
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DESIGNED BY: MI, DJR
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

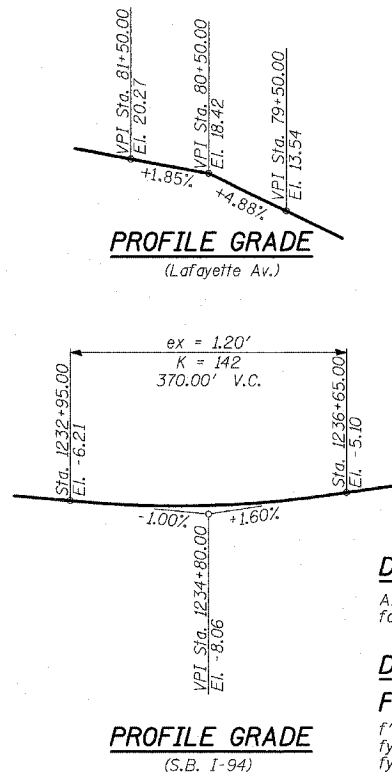
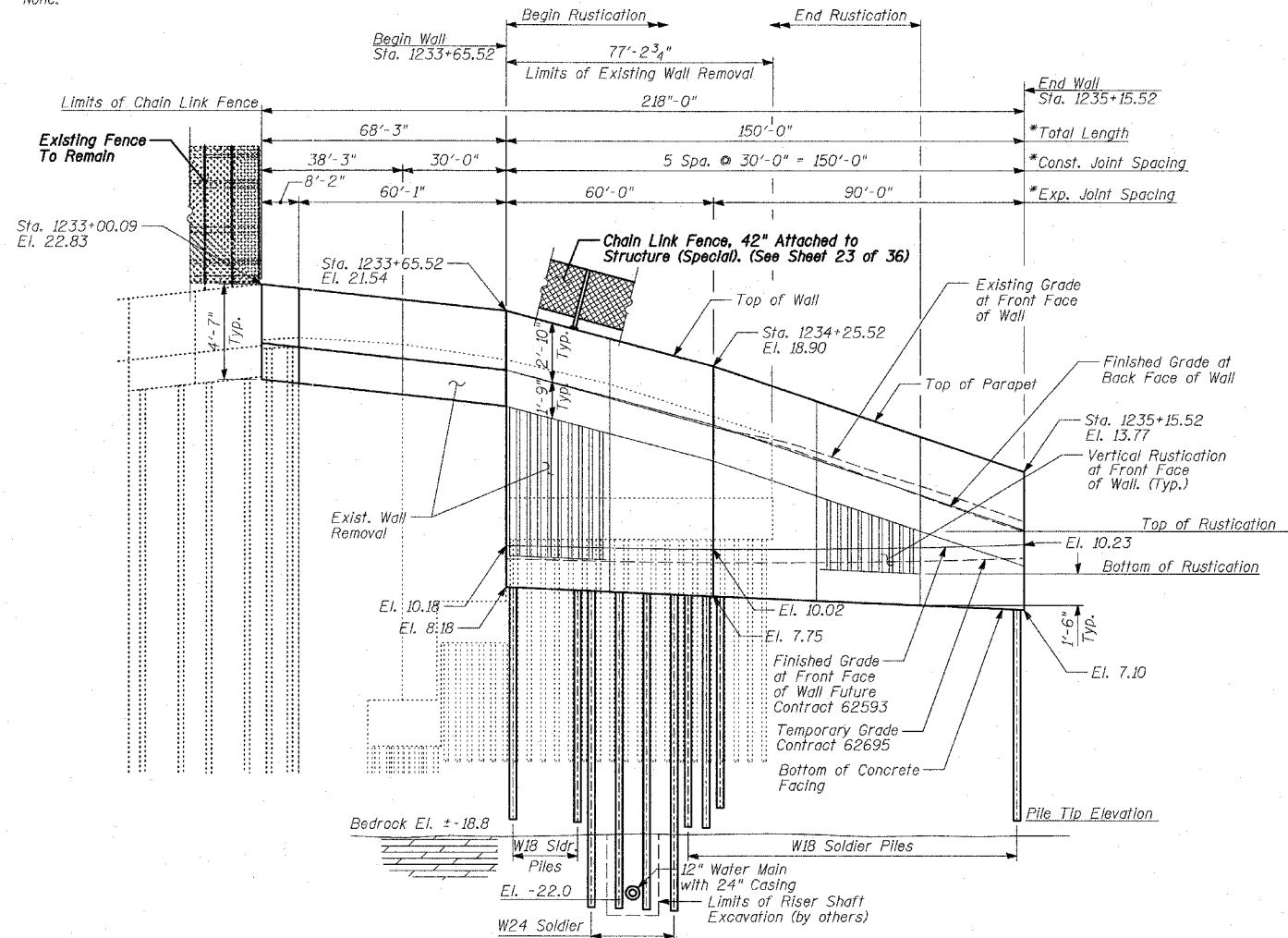
4/14/2005 7:17:40 AM

Benchmarks: BM 3550 Set "A" westerly flange bolt of hydrant at southwest intersection of 91st St. and Lafayette Ave. El. 22.88

Existing Structure: Reinforced concrete cantilever retaining wall, supported on concrete pile footings, along Southbound Dan Ryan, East edge of Lafayette Avenue, 91ST Street to CRI&P RR. Built in 1960. Total length ±137'±±

Salvage: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	15
STA. 1200+00.00 TO STA. 1330+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT		
• (1516.1, 1717 & 1818) I-2				62931



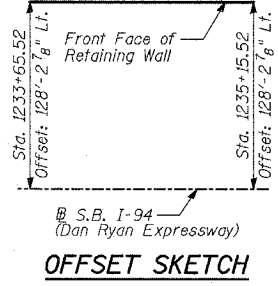
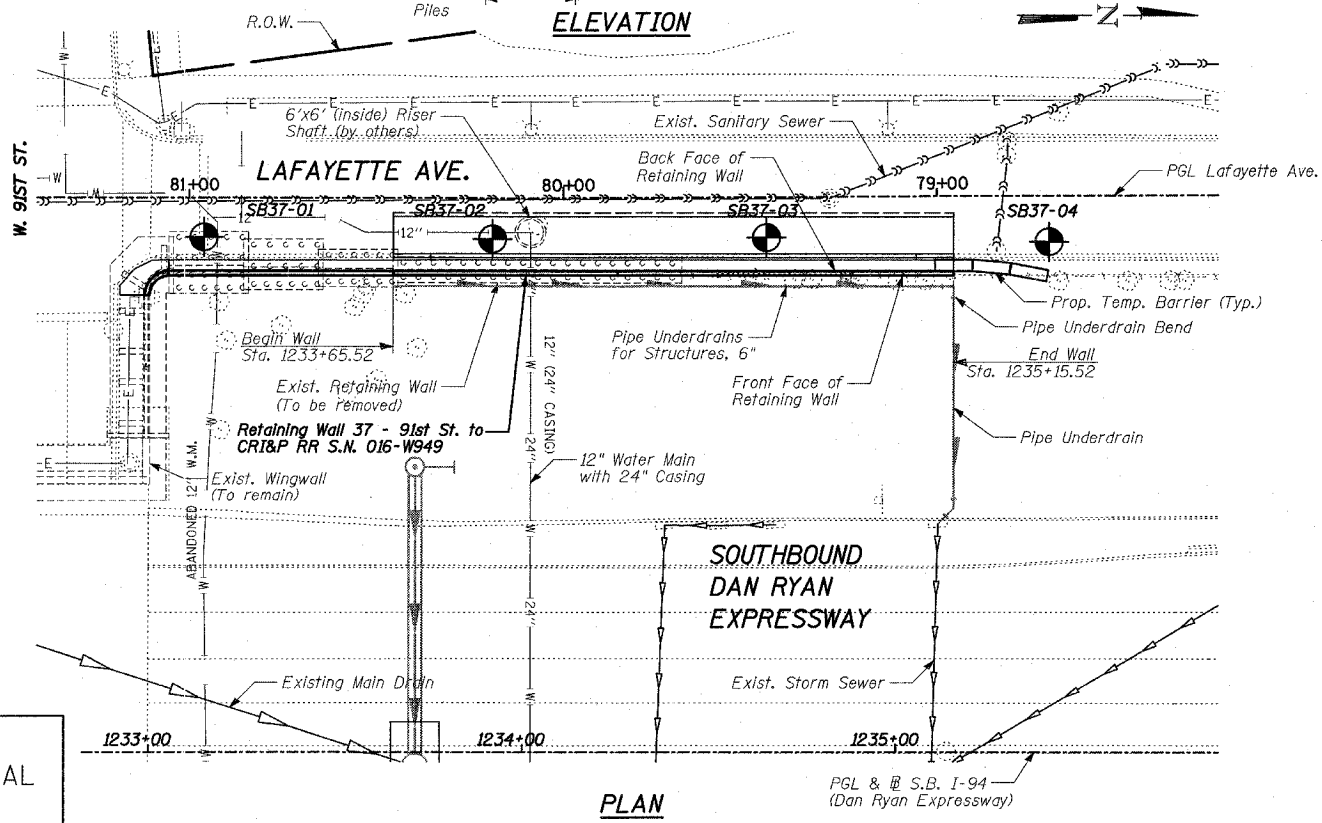
DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

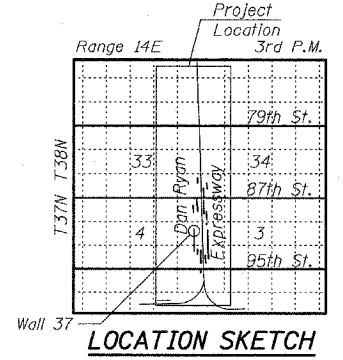
DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)
 Soldier Piles



- LEGEND**
- ⊕ Boring Location
 - * Measured along Front Face of Wall.
 - ** Portions of existing walls to be removed to accommodate proposed walls.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
91ST ST. TO CRI&P RR
WALL 37 - GENERAL PLAN
STA. 1233+65.52 TO STA. 1235+15.52
 S.N. 016-W949
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

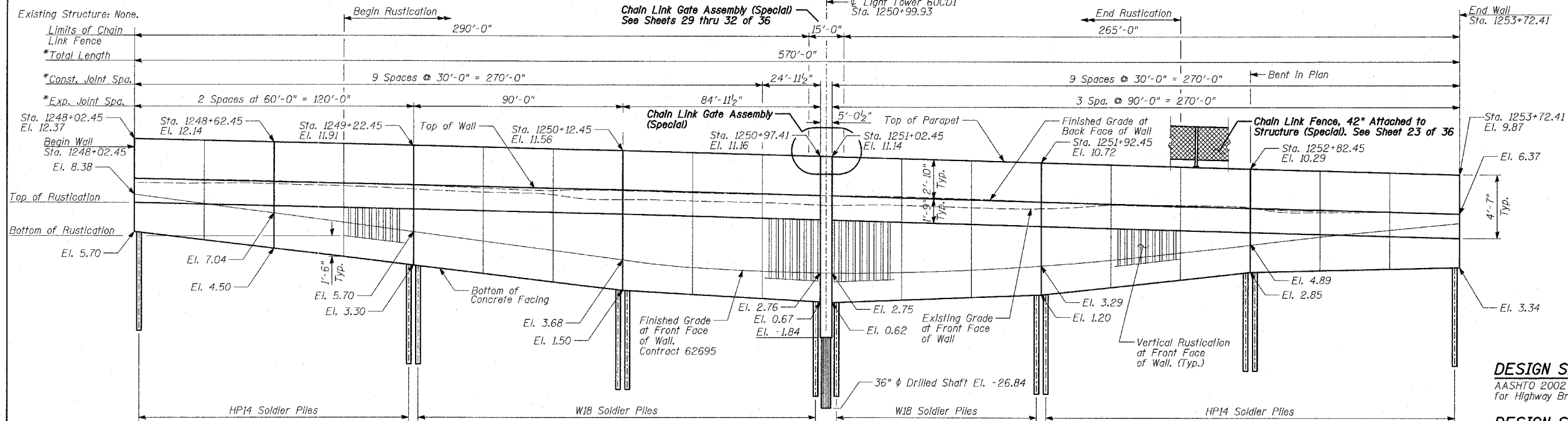
DESIGNED BY: MI, DJR
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

TYLIN INTERNATIONAL

4/14/2005 7:46 AM

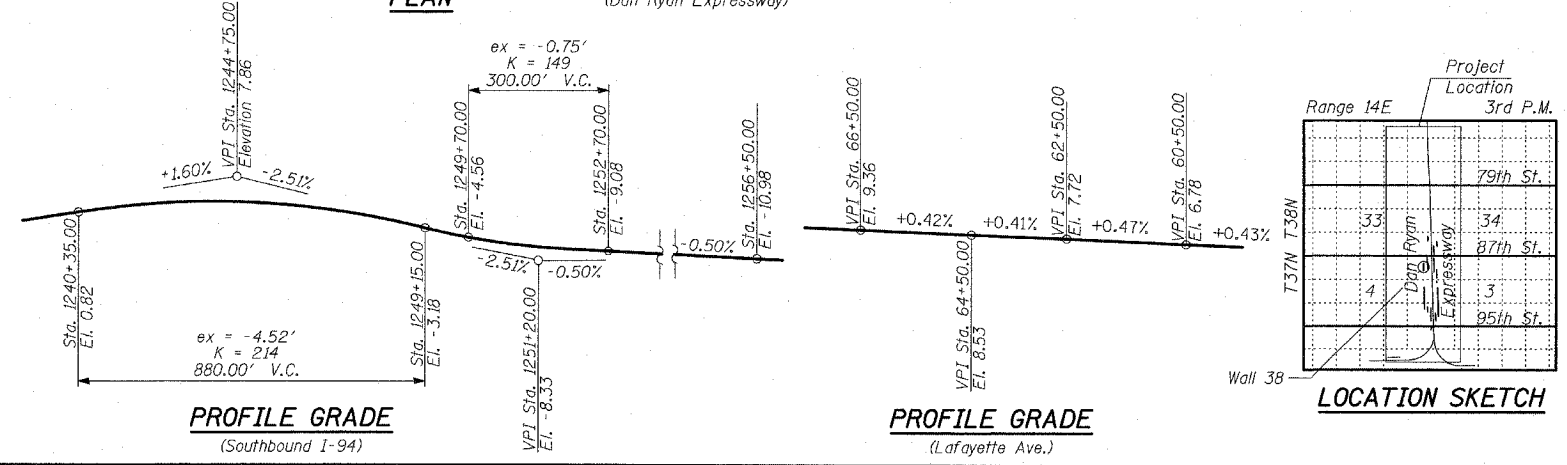
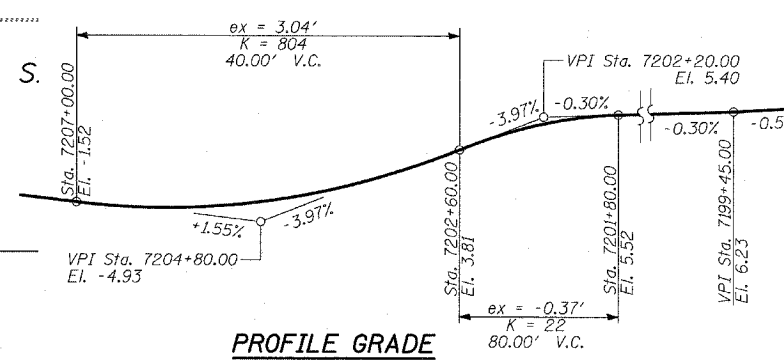
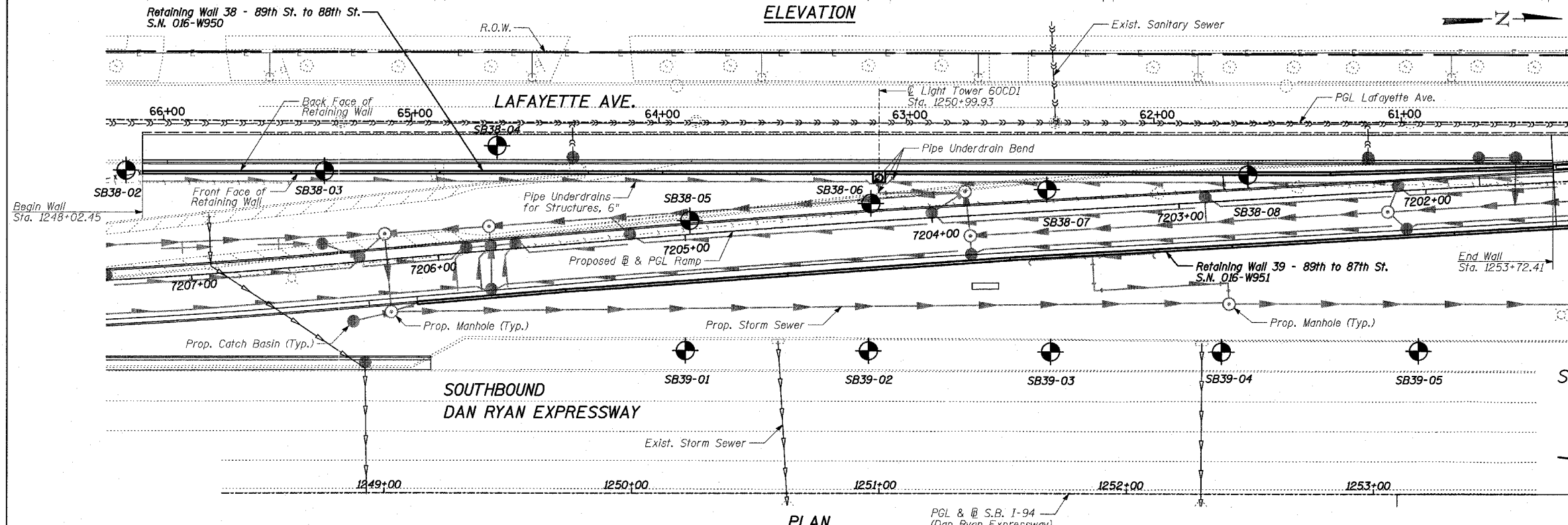
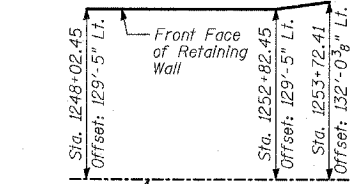
Benchmarks: BM 3549 Set "+" westerly flange bolt of hydrant at southwest intersection of 87th St. and Lafayette Ave. El. 9.49

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	16
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2		62931		



DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Soldier Piles



LEGEND

◊ Boring Location

* Measured along Front Face of Wall.

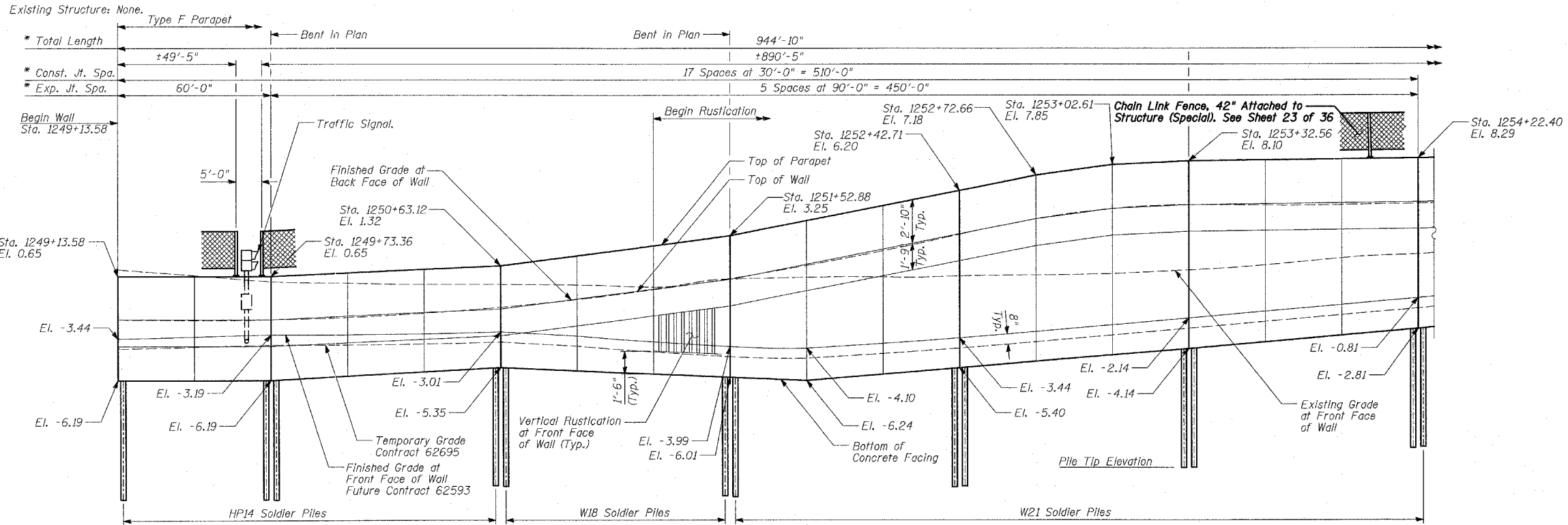
REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 94 (DAN RYAN EXPRESSWAY) RETAINING WALL ALONG LAFAYETTE AVE. 89TH ST. TO 88TH ST. WALL 38 - GENERAL PLAN STA. 1248+02.45 TO STA. 1253+72.41 S.N. 016-W950 SCALE: N.T.S. DATE: APRIL 15, 2005	DESIGNED BY: MI, MAF DRAWN BY: MAF, TB CHECKED BY: TD, MI
NAME	DATE		

TYLIN INTERNATIONAL

4/14/2005 7:47:52 AM

Benchmarks: BM 3549 Set "+" westerly flange bolt of hydrant at southwest intersection of 87th St. and Lafayette Ave. El. 9.49

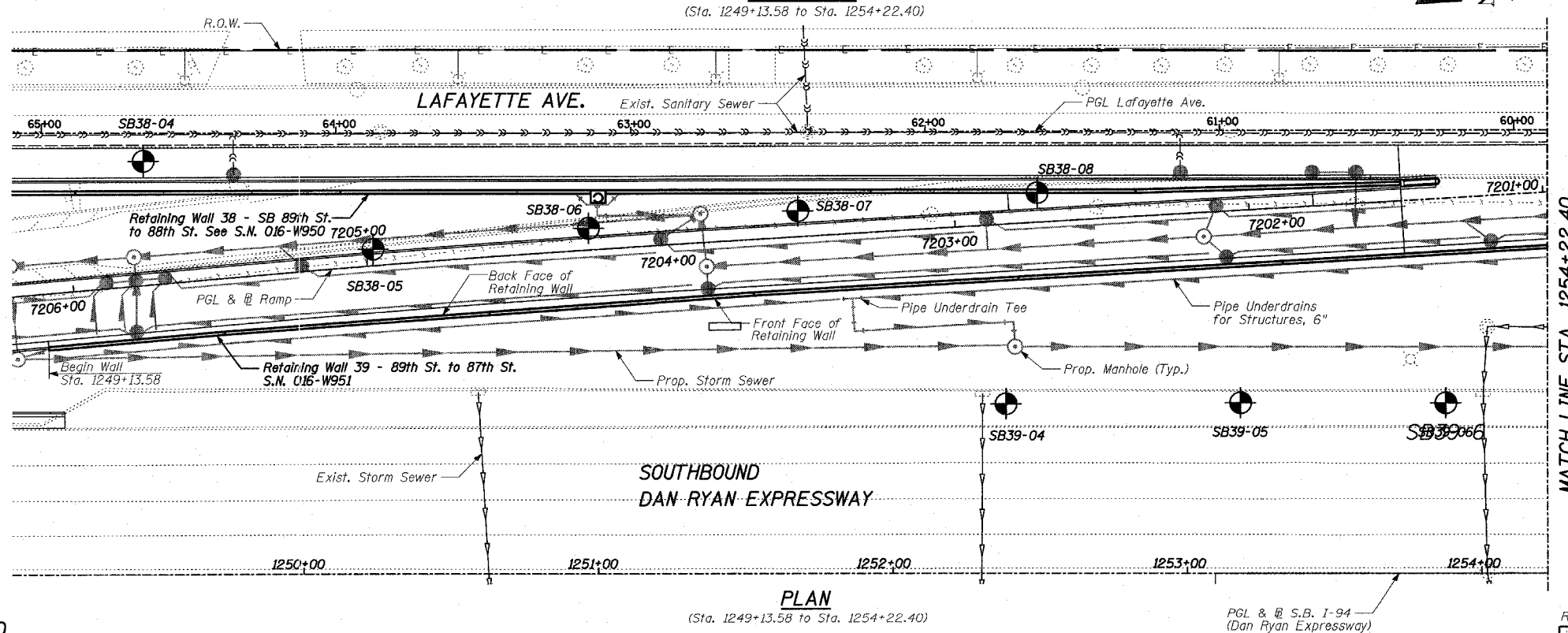
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	17
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2				62931



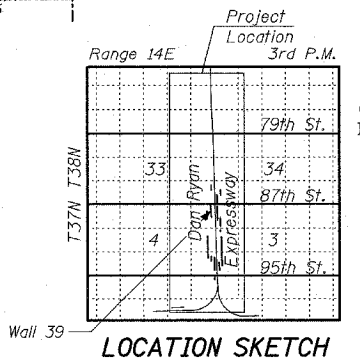
DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications
 For Highway Bridges

DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36)
 Soldier Piles

LOADING
 Max. Soil Pressure Under Footing = 700 psf



LEGEND
 ◉ Boring Location
 * Measured along Front Face of Wall.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 89TH ST. TO 87TH ST.
 WALL 39 - GENERAL PLAN
 STA. 1249+13.58 TO STA. 1254+22.40
 S.N. 016-W951
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

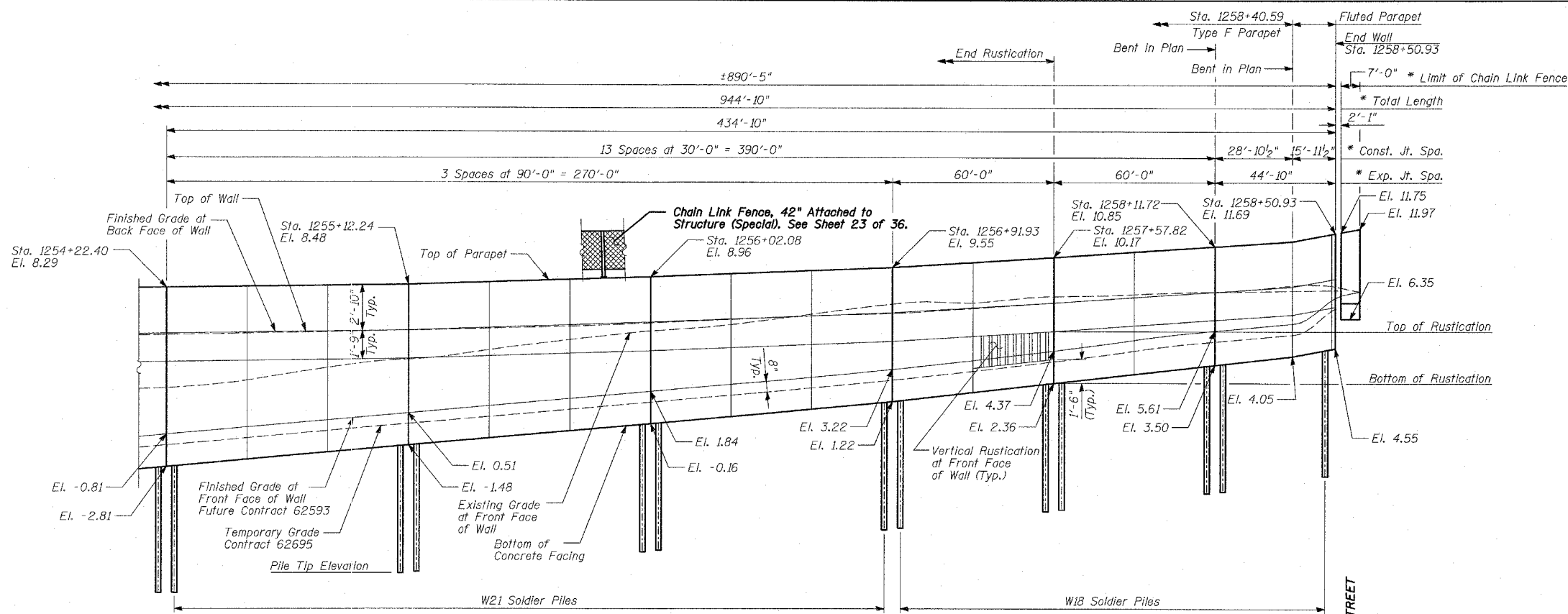
DESIGNED BY: MI, TB
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

TYLIN INTERNATIONAL

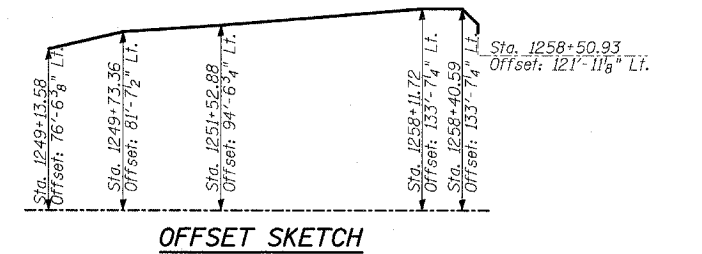
4/17/2005 7:17:58 AM

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	18
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• (1516.1, 1717 & 1818) I-2				

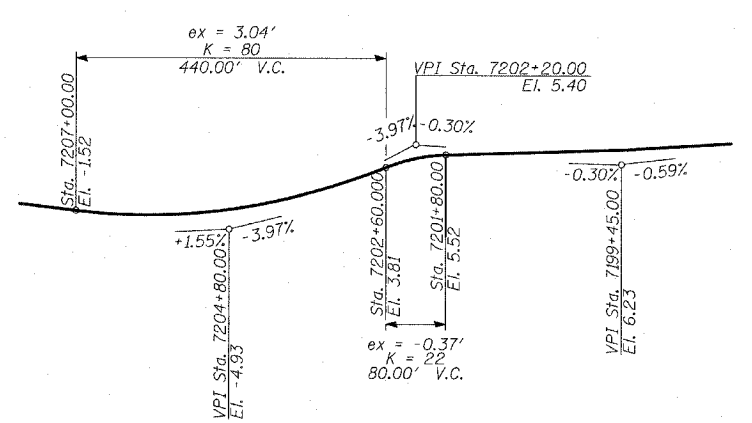
62931



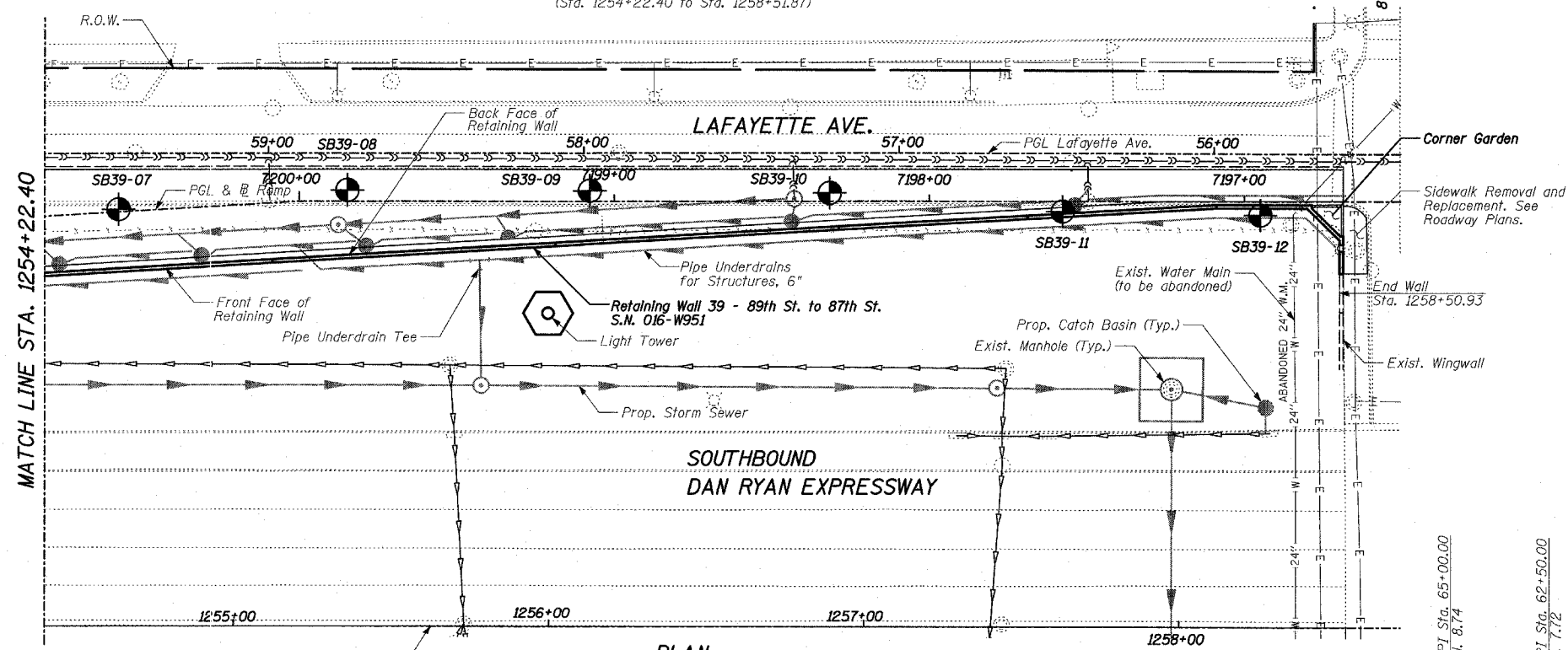
ELEVATION
(Sta. 1254+22.40 to Sta. 1258+51.87)



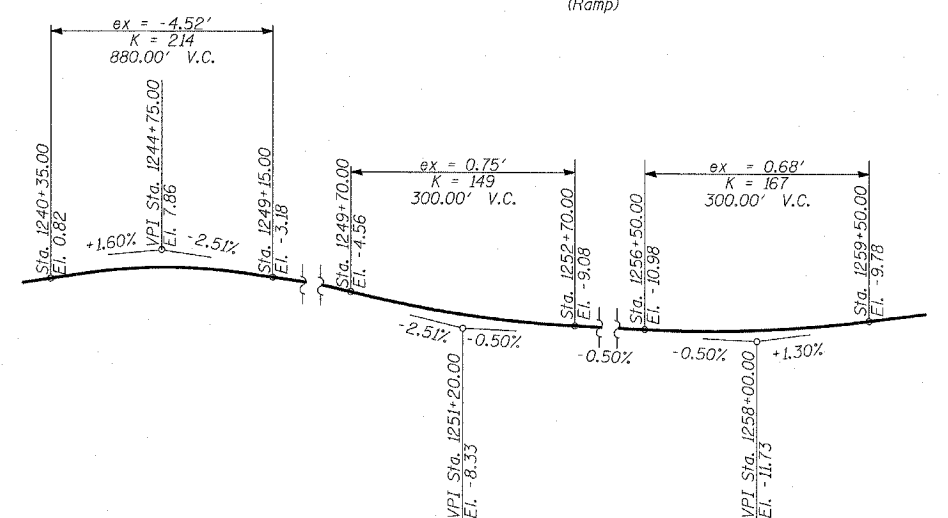
OFFSET SKETCH



PROFILE GRADE
(Ramp)



PLAN
(Sta. 1254+22.40 to Sta. 1258+50.93)



PROFILE GRADE
(Southbound I-94)

LEGEND
 Boring Location
 * Measured along Front Face of Wall.

TYLIN INTERNATIONAL

PROFILE GRADE
(Lafayette Av.)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 89TH ST. TO 87TH ST.
 WALL 39 - GENERAL PLAN
 STA. 1249+13.58 TO STA. 1258+50.93
 S.N. 016-W951
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

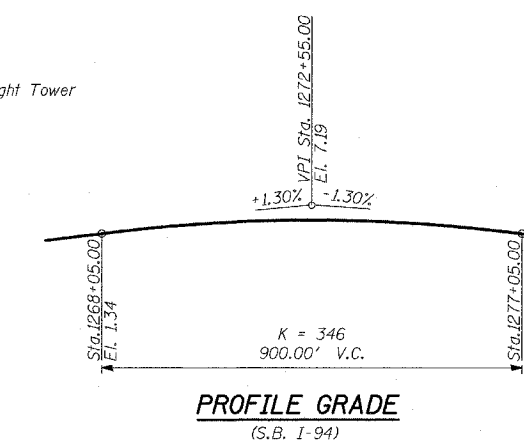
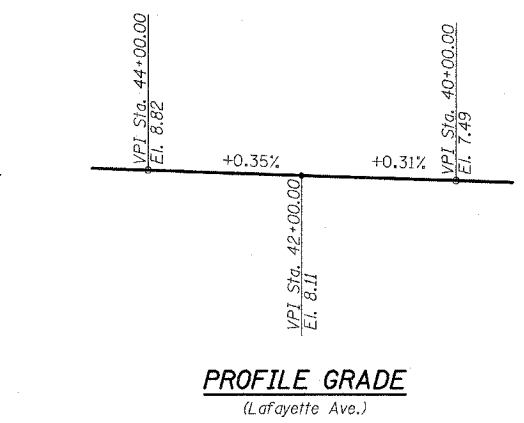
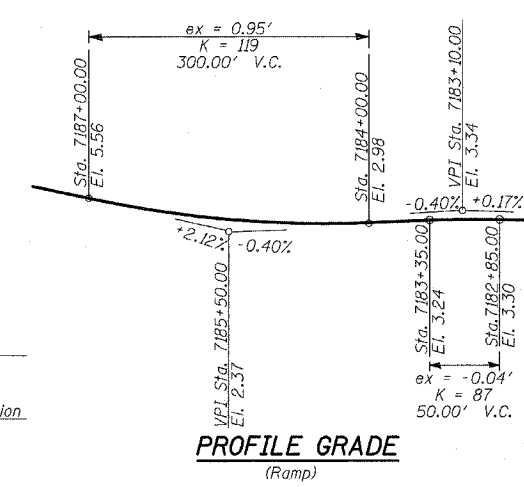
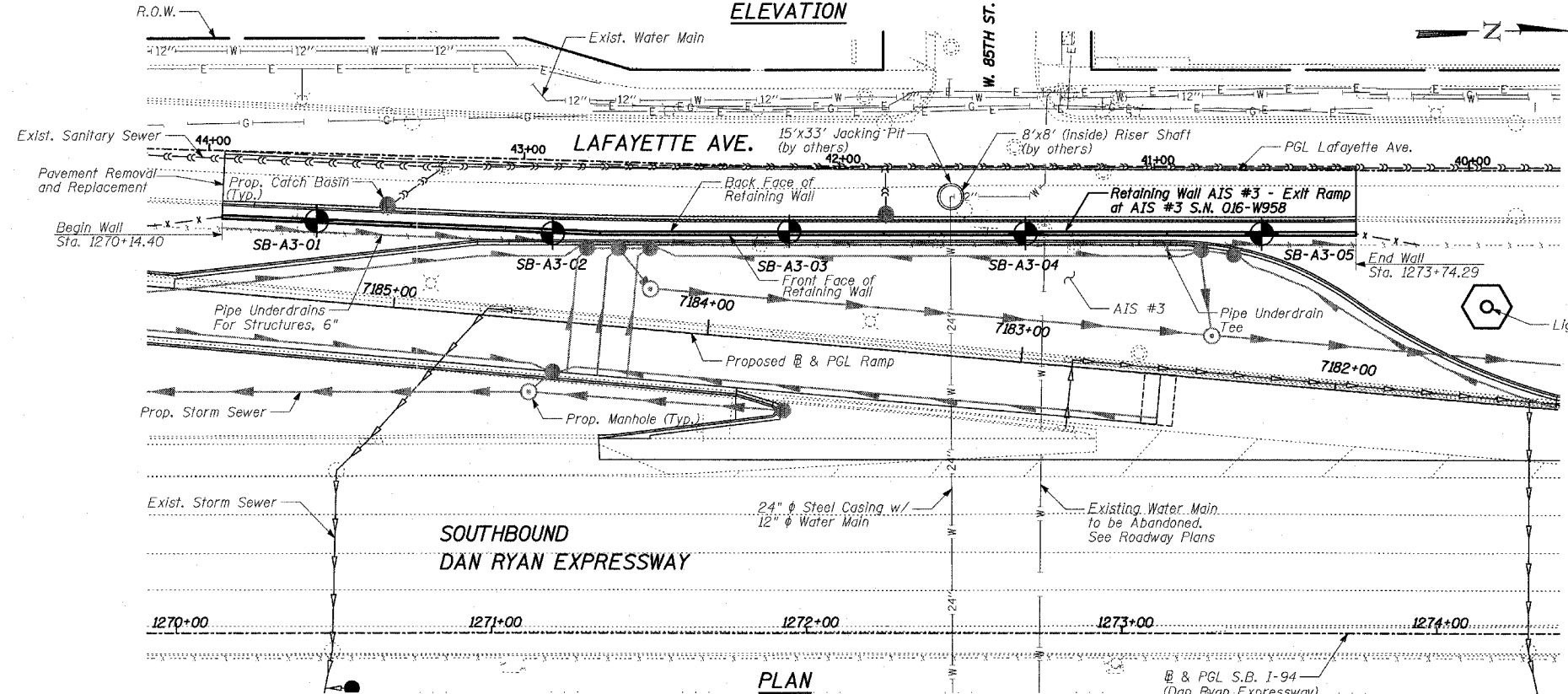
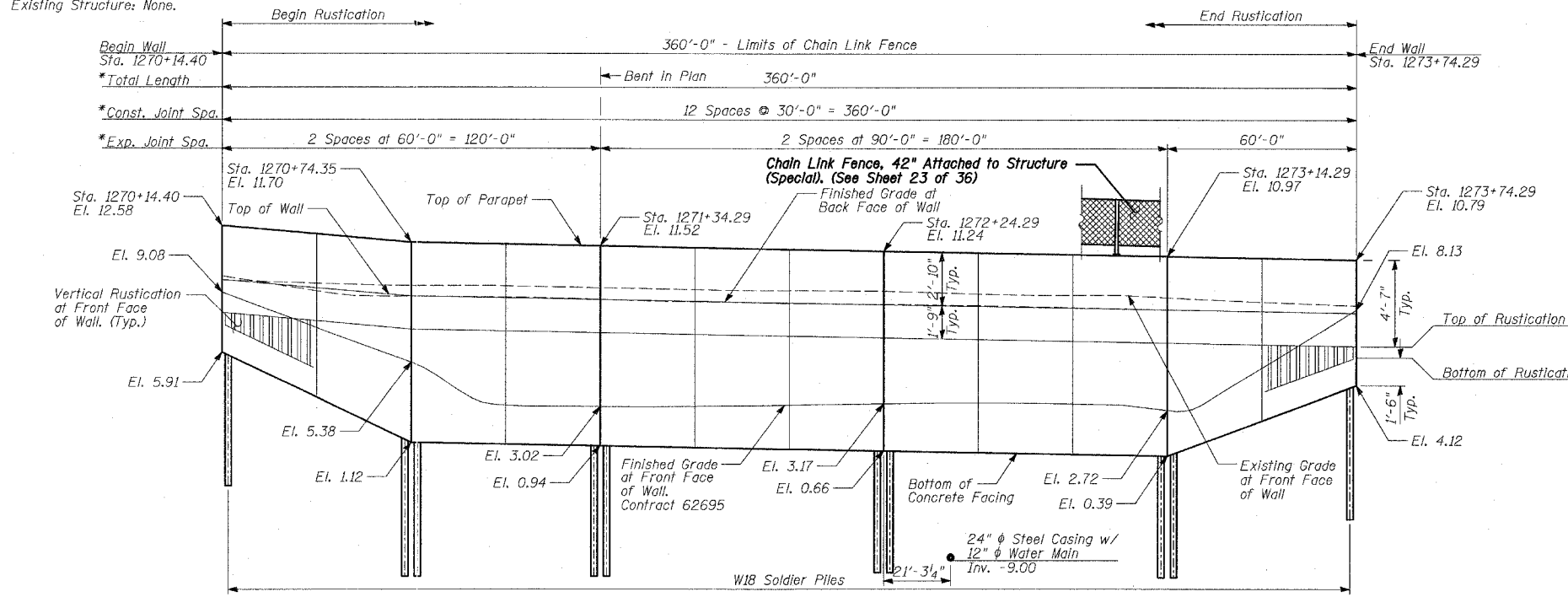
DESIGNED BY: MI, TB
 DRAWN BY: DJR, TB
 CHECKED BY: TD, MI

1/14/2005 7:16:03 AM

Benchmarks: BM 3549 Set "+" westerly flange bolt of hydrant at southwest intersection of 87th St. and Lafayette Ave.. El. 9.49

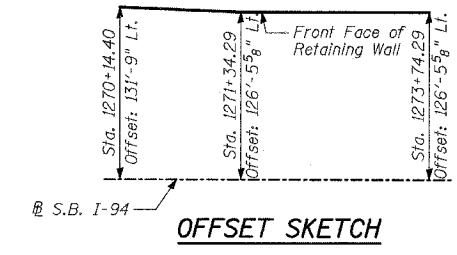
Existing Structure: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	19
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT		62931
* (1516.1, 1717 & 1818) I-2				



DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36) Soldier Piles

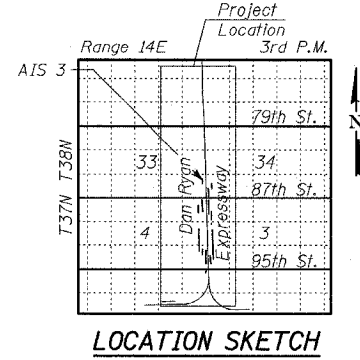


LEGEND

⊙ Boring Location

* Measured along Front Face of Wall.

TYLIN INTERNATIONAL



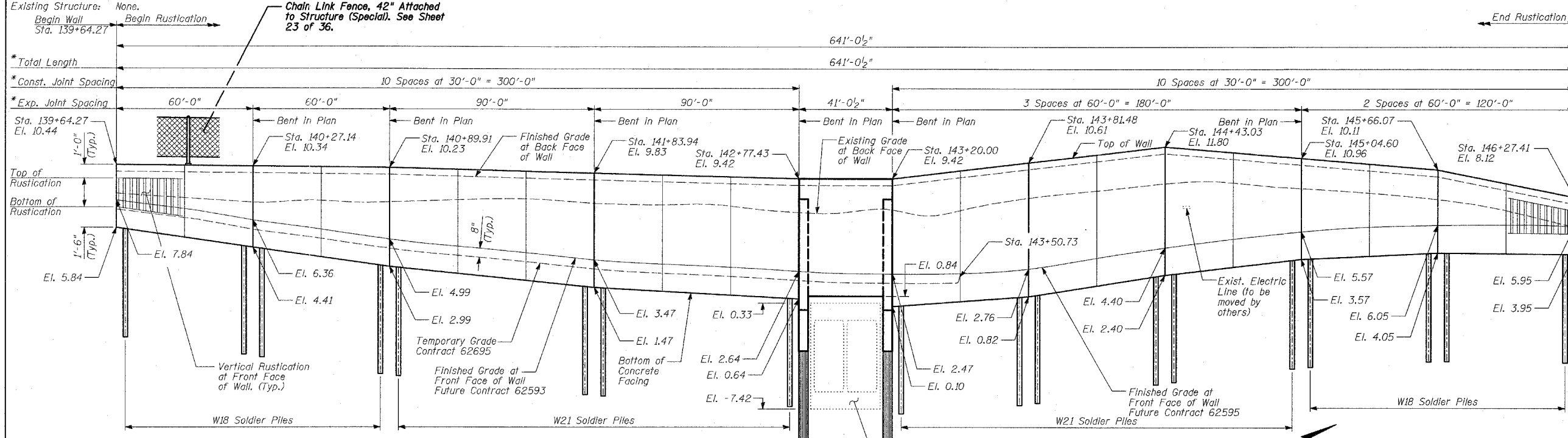
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
EXIT RAMP AT AIS #3
AIS 3 - GENERAL PLAN
STA. 1270+14.40 TO STA. 1273+74.29
S.N. 016-W958
SCALE: N.T.S.
DATE: APRIL 15, 2005

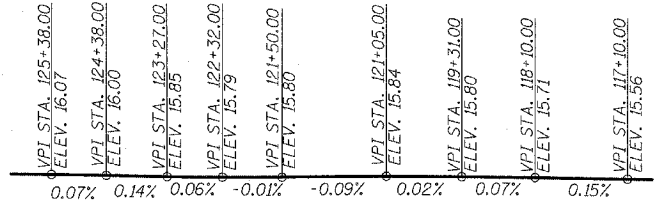
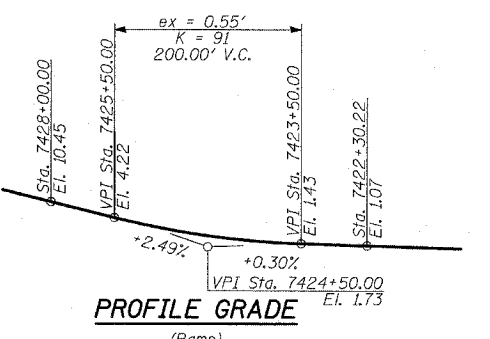
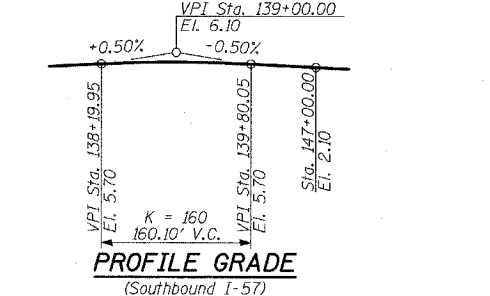
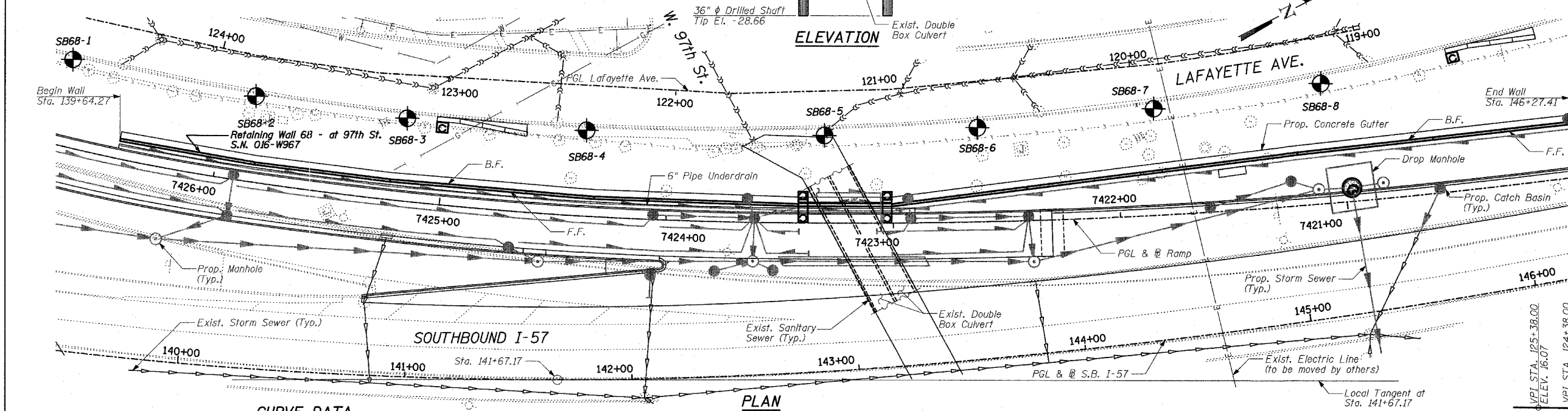
DESIGNED BY: MI, DJR
DRAWN BY: DJR, TB
CHECKED BY: TD, MI

4/14/2005 7:48:09 AM

Benchmarks: BM 3514 Set "+" on chain bolt of hydrant at southwest intersection of LaSalle St. and 97th St. El. 17.56



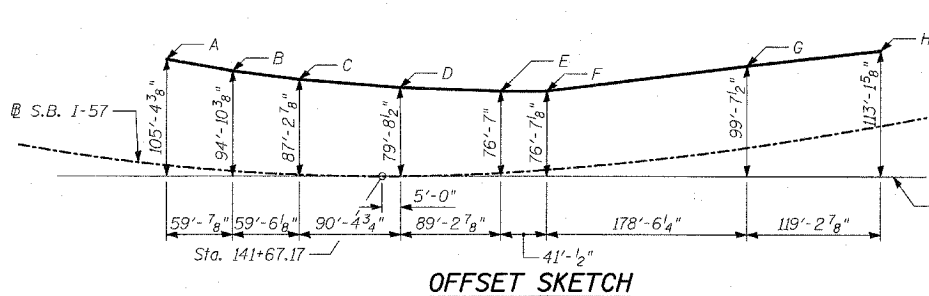
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	20
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
• (1516.1, 1717 & 1818) I-2		62931		



CURVE DATA

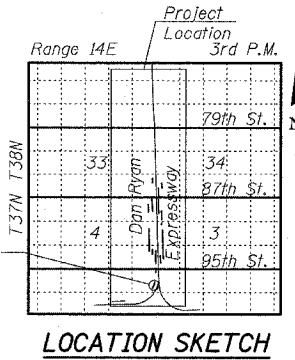
Curve SB5700	Curve SB5701
$\Delta = 66^\circ 11' 55.15''$ (Lt.)	$\Delta = 24^\circ 02' 7.49''$ (Lt.)
$D = 3^\circ 02' 10.83''$	$D = 1^\circ 58' 30.13''$
$R = 1,887.00$	$R = 2,901.00$
$L = 2,180.21$	$L = 1,216.96$
$E = 365.53$	$E = 65.01$
$T = 1,230.09$	$T = 617.56$
$PC = Sta. 121+39.97$	$PC = Sta. 143+20.18$
$PI = Sta. 133.70.06$	$PI = Sta. 149+37.75$
$PT = Sta. 143+20.18$	$PT = Sta. 155+37.15$

DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges
DESIGN STRESSES
FIELD UNITS
 $f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
 $f_y = 36,000$ psi (M270 Grade 36) Soldier Piles



OFFSET SKETCH

Point	Sta.	Offset to S.B. I-57
A	139+64.27	95'-0 1/8" Lt.
B	140+27.14	89'-11" Lt.
C	140+89.91	85'-8 3/4" Lt.
D	141+83.94	79'-8 1/2" Lt.
E	142+77.43	73'-5 7/8" Lt.
F	143+20.00	70'-7 1/2" Lt.
G	145+04.60	73'-5" Lt.
H	146+27.41	67'-0 1/8" Lt.



REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 AT 97TH ST.
 WALL 68 - GENERAL PLAN
 STA. 139+64.27 TO STA. 146+27.41
 S.N. 016-W967
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

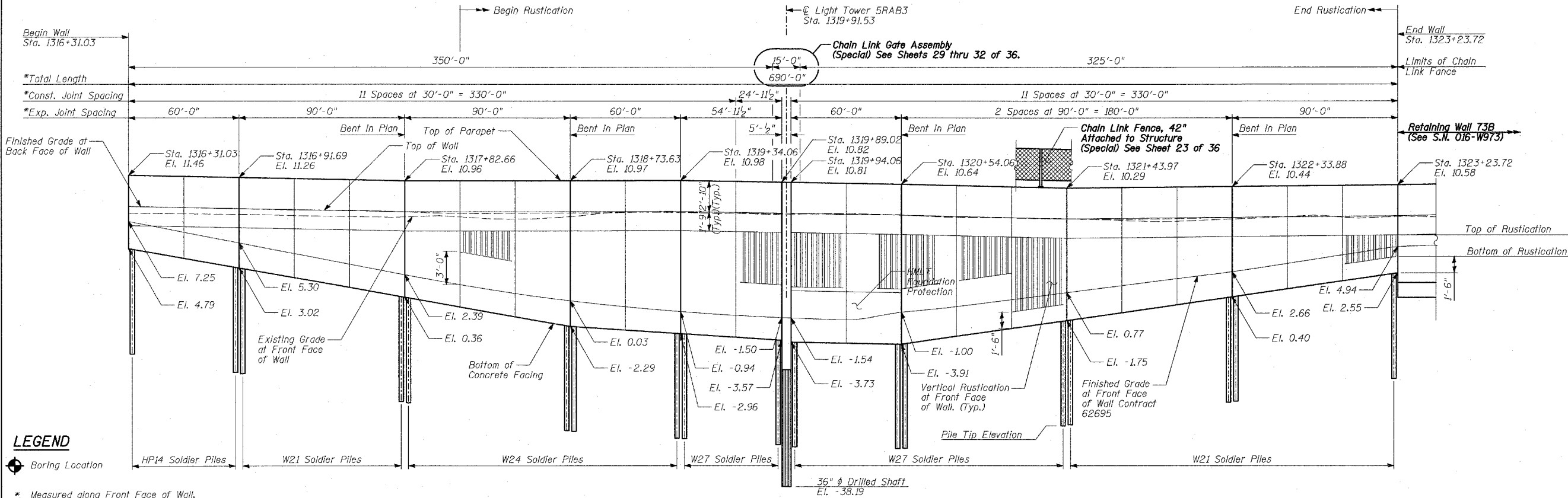
DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI

TYLIN INTERNATIONAL

P:0237, S:woodall, J:spirel, J:ar, 5/14/2005, 7:18:15 AM

Benchmarks: BM 3810 Cut square on southerly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan, opposite of West 77th Place, approximately 1000 feet north of 79th Street bridge. Elev. 0.29 feet.
Existing Structure: None.

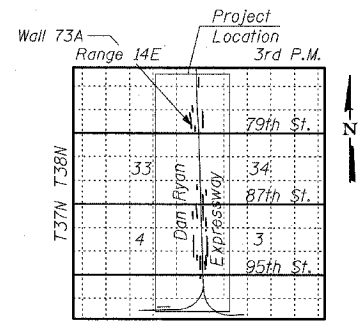
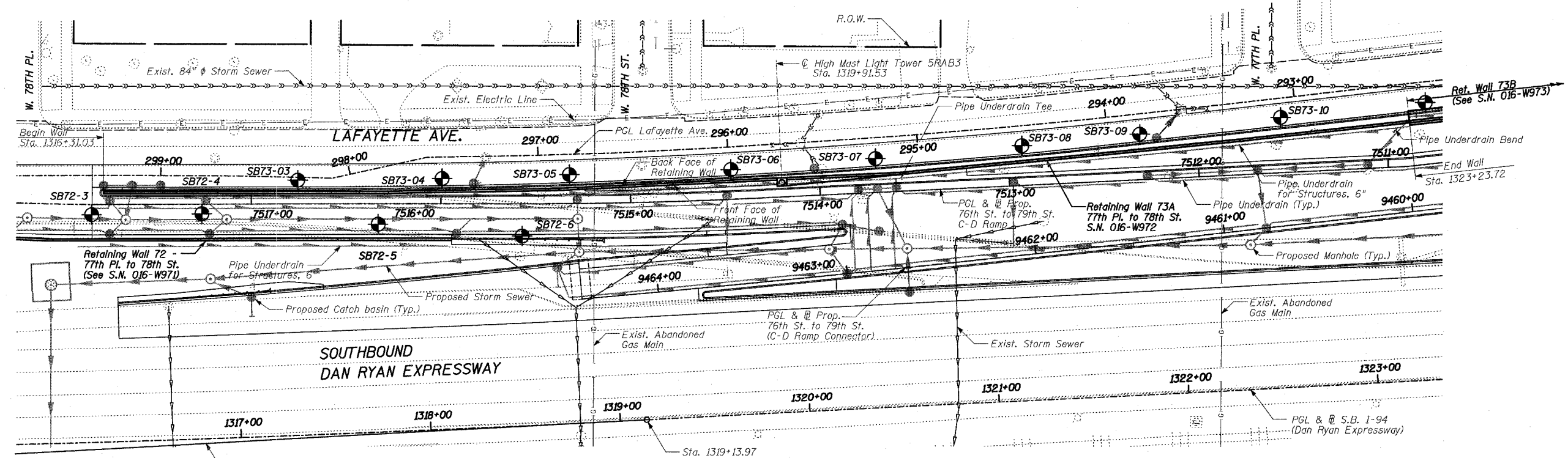
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	21
STA. 1200+00.00 TO STA. 1330+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		(1516, 1717 & 1818) 1-2		
				62931



LEGEND
 Boring Location
 * Measured along Front Face of Wall.

DESIGN SPECIFICATION
 AASHTO 2002 Standard Specifications for Highway Bridges
DESIGN STRESSES
FIELD UNITS
 f'c = 3,500 psi
 fy = 60,000 psi (Reinforcement)
 fy = 36,000 psi (M270 Grade 36) Solder Piles

ELEVATION



LOCATION SKETCH

PLAN

TYLIN INTERNATIONAL

REVISIONS	
NAME	DATE

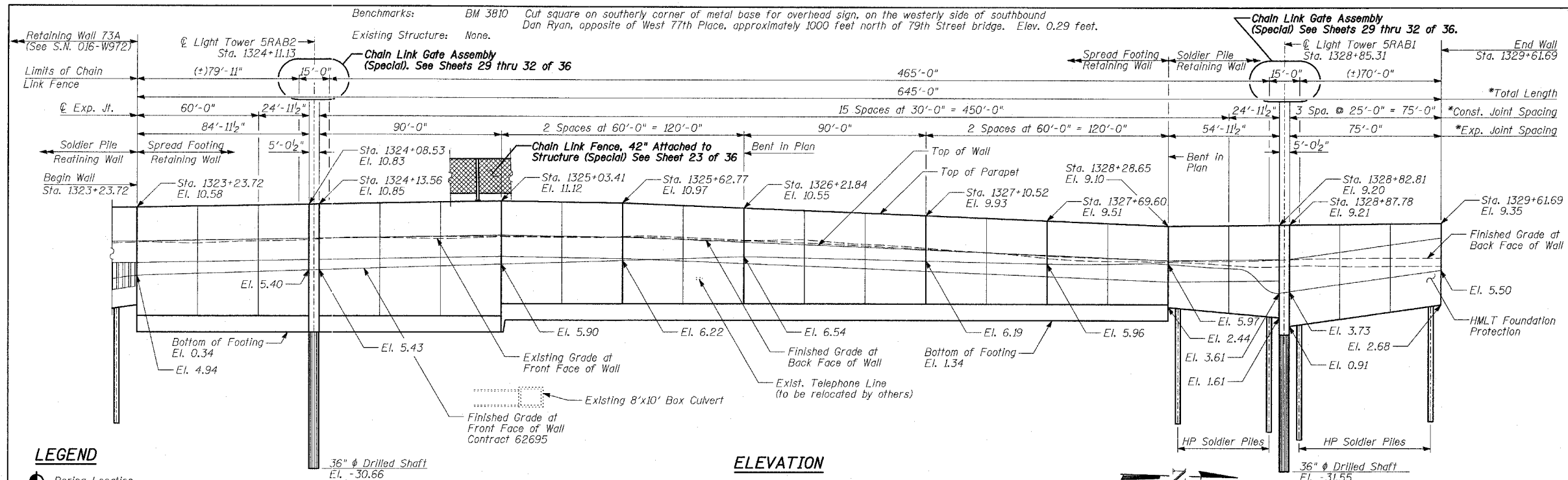
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 RETAINING WALL ALONG LAFAYETTE AVE.
 77TH PL. TO 78TH ST.
 WALL 73A - GENERAL PLAN
 STA. 1316+31.03 TO STA. 1327+23.72
 S.N. 016-W972 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, MAF
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

4/14/2005 7:48:21 AM

Benchmarks: BM 3810 Cut square on southerly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan, opposite of West 77th Place, approximately 1000 feet north of 79th Street bridge. Elev. 0.29 feet.

Existing Structure: None.

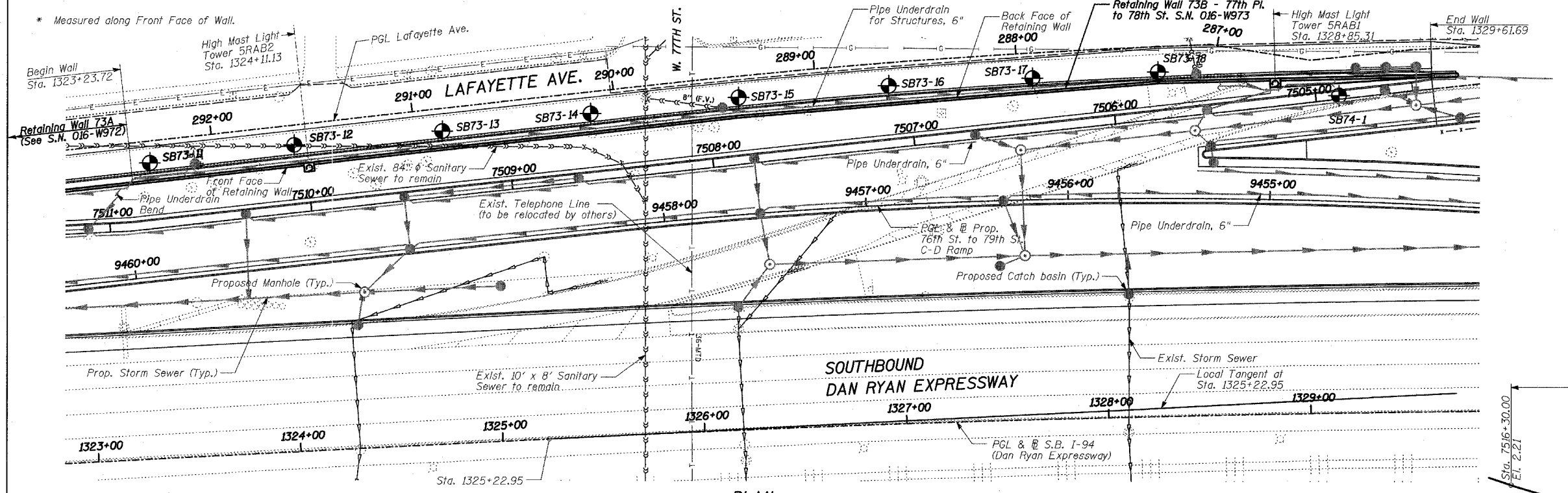
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	22
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
(1516.1, 1717 & 1818) I-2		62931		



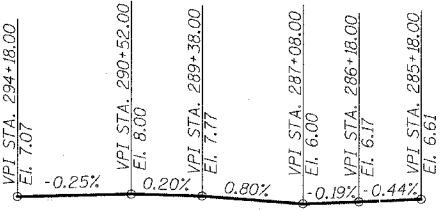
LEGEND

- Boring Location
- * Measured along Front Face of Wall.

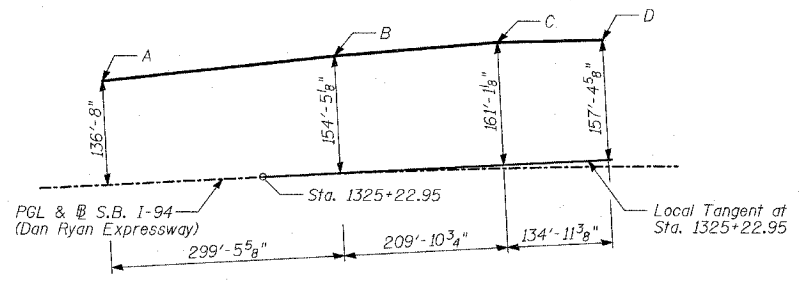
ELEVATION



PLAN

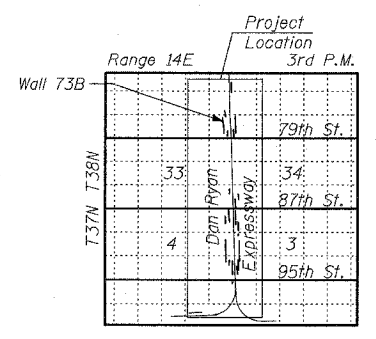


PROFILE GRADE
(Lafayette Ave.)



OFFSET SKETCH

Point	Sta.	Offset to S.B. I-57
A	1323+23.72	136'-8" Lt.
B	1326+21.84	154'-10 5/8" Lt.
C	1328+28.65	165'-3 1/2" Lt.
D	1329+61.69	166'-0 5/8" Lt.



LOCATION SKETCH

DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS

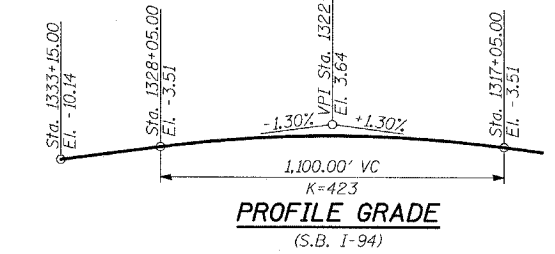
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)

LOADING

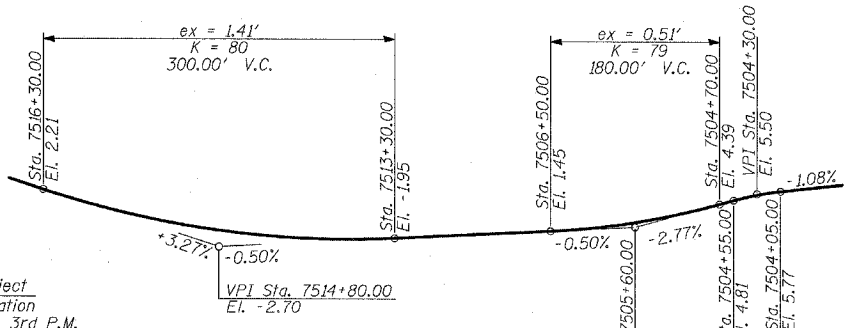
Maximum soil pressure under footings is 2200 psf.

CURVE DATA

S.B. I-94 SBDRO3:
Δ = 3° 16' 11.04" (RT)
D = 0° 30' 28.59"
R = 11,280.00
L = 643.72
E = 4.59
T = 321.95
P.C. STA = 1325+22.95
P.I. STA = 1328+44.90
P.T. STA = 1331+66.67



PROFILE GRADE
(S.B. I-94)



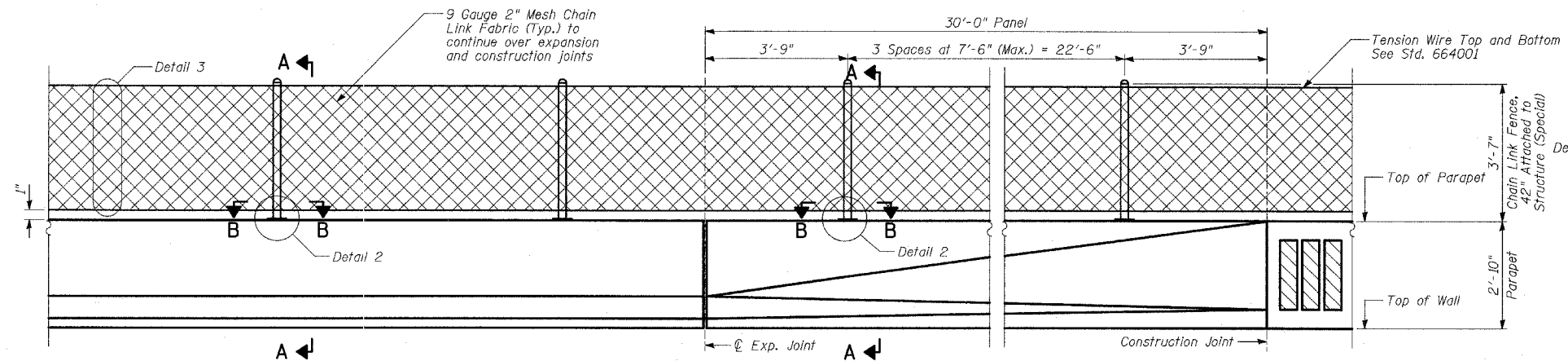
PROFILE GRADE
(76th to 79th St.)
(C-D Ramp)

REVISIONS	
NAME	DATE

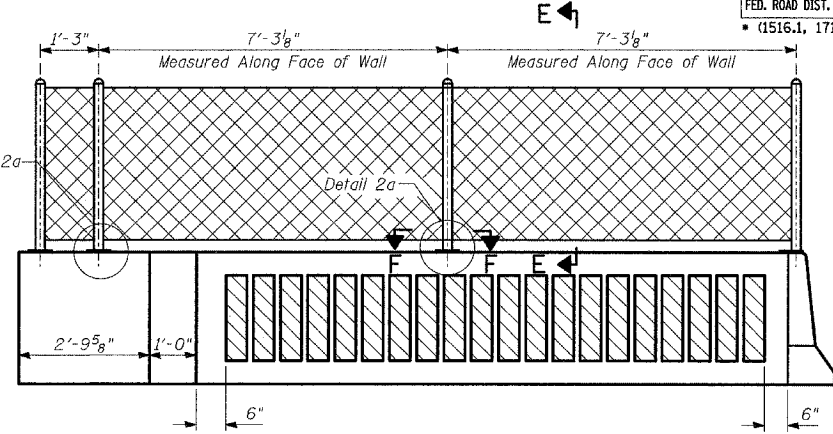
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG LAFAYETTE AVE.
77TH PL. TO 78TH ST.
WALL 73B - GENERAL PLAN
STA. 1323+23.72 TO STA. 1329+61.69
S.N. 016-W973
SCALE: N.T.S.
DATE: APRIL 15, 2005

DESIGNED BY: MI. DJR
DRAWN BY: DJR
CHECKED BY: TD, MI

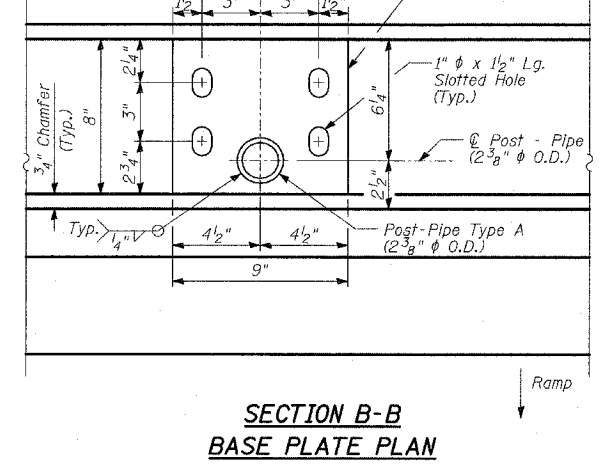
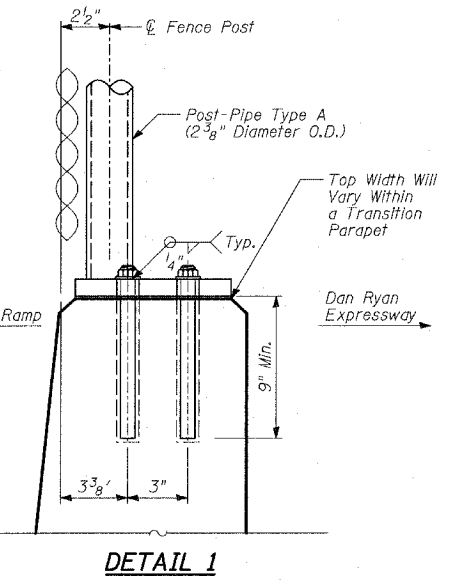
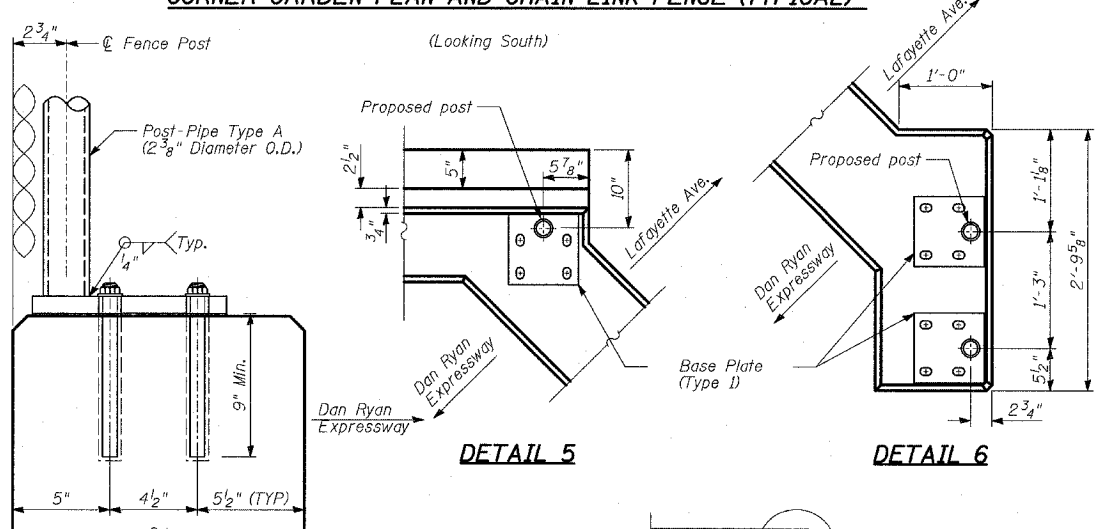
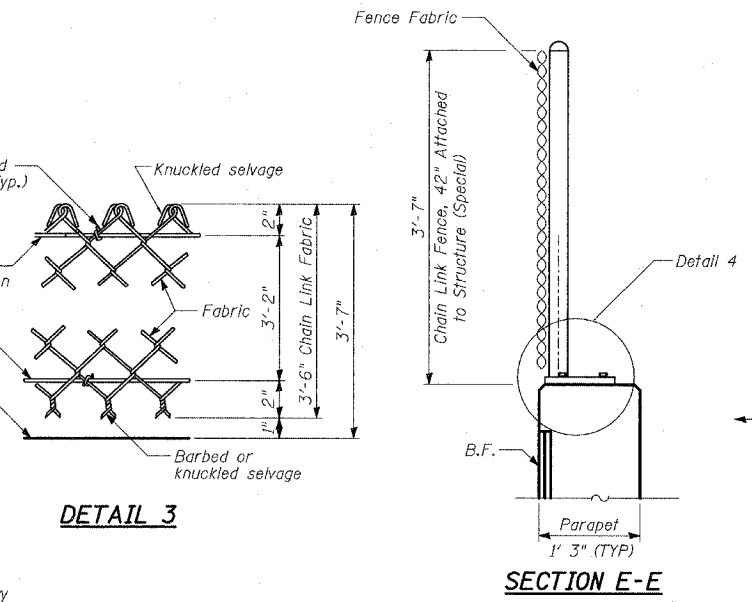
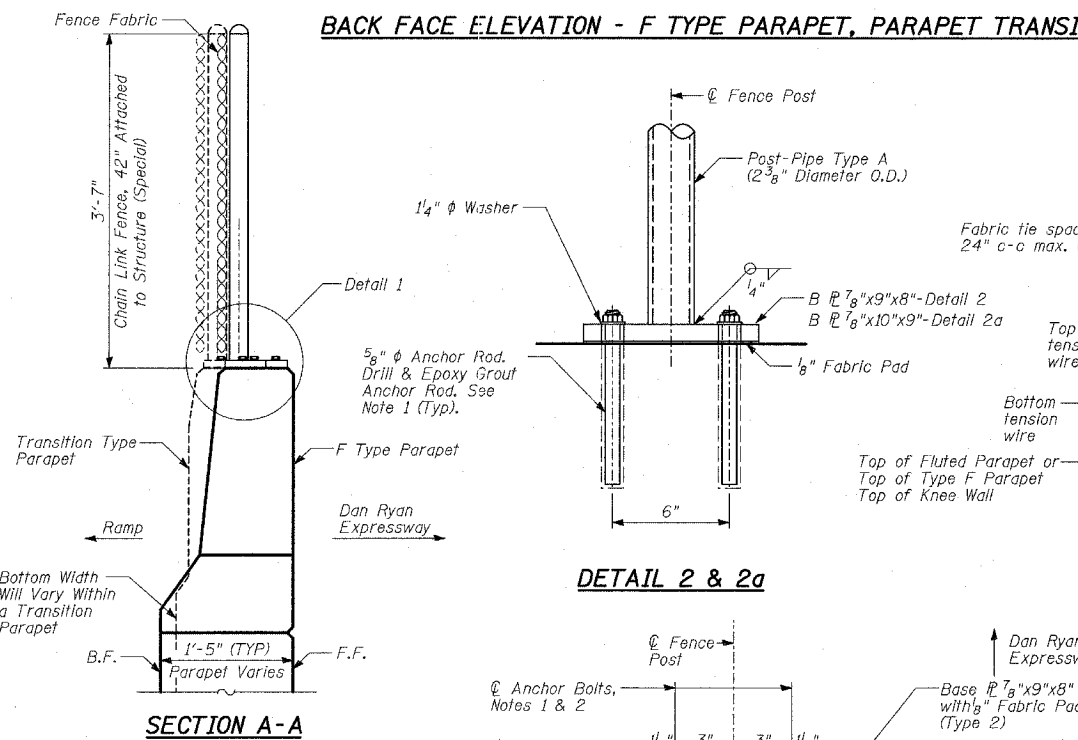
7/14/2005 7:48:28 AM



BACK FACE ELEVATION - F TYPE PARAPET, PARAPET TRANSITION, FLUTED PARAPET AND CHAIN LINK FENCE - (TYPICAL)

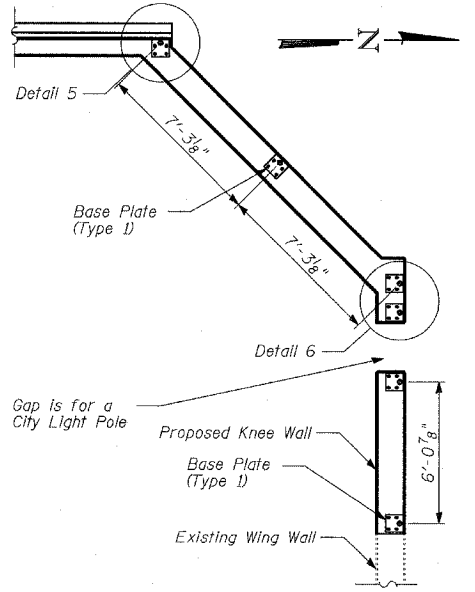
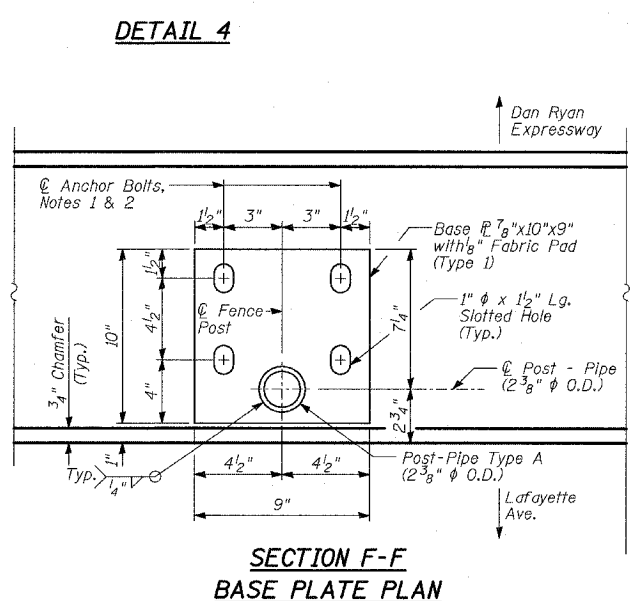


BACK FACE ELEVATION - TOP OF RETAINING WALL PARAPET, FLUTED PARAPET, CORNER GARDEN PLAN AND CHAIN LINK FENCE (TYPICAL)



BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
33	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	204
34	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	963
35	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	358
36	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	1304
37	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	218
38	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	555
39	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	947
AIS 3	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	360
68	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	641
73A	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	675
73B	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	615
	TOTAL	FOOT	6840



- NOTES:**
- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
 - For additional chain link fence details, see Standard 664001.

- LEGEND**
- B.F. - Denotes Back Face.
F.F. - Denotes Front Face.

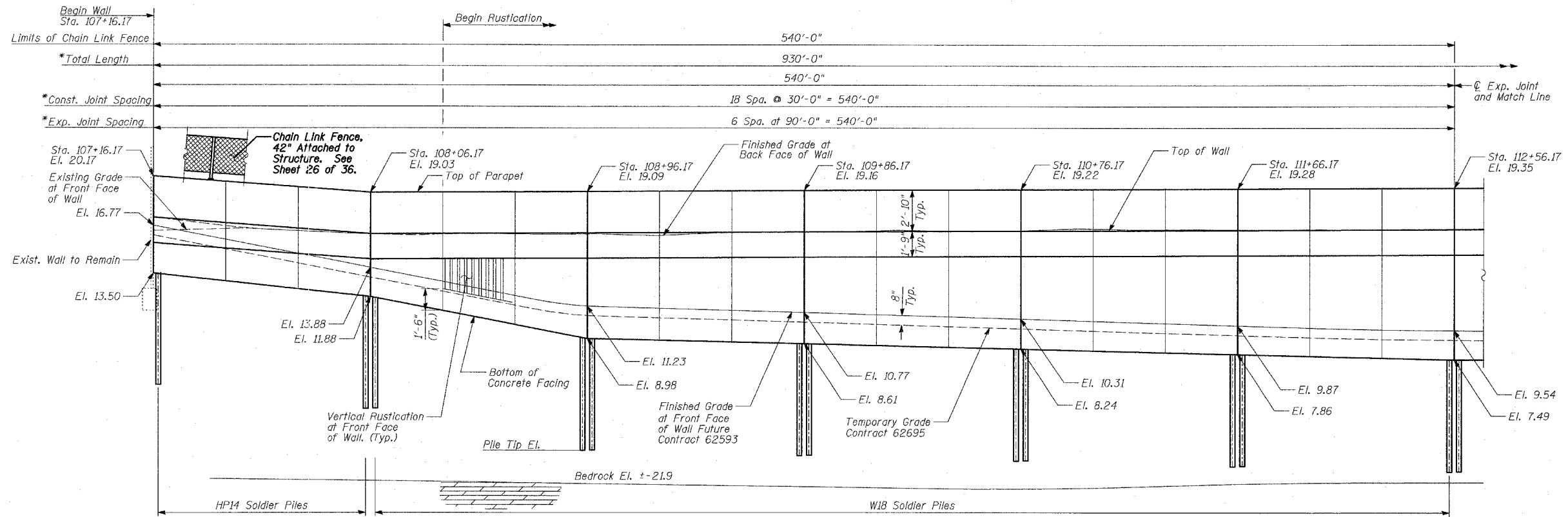
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
WALLS 33, 34, 35, 36, 37, 38, 39, AIS3,
68, 73A, 73B - CHAIN LINK FENCE, 42"
ATTACHED TO STRUCTURE (SPECIAL)
DESIGNED BY: MI
SCALE: N.T.S. DRAWN BY: DJR
DATE: APRIL 15, 2005 CHECKED BY: TD

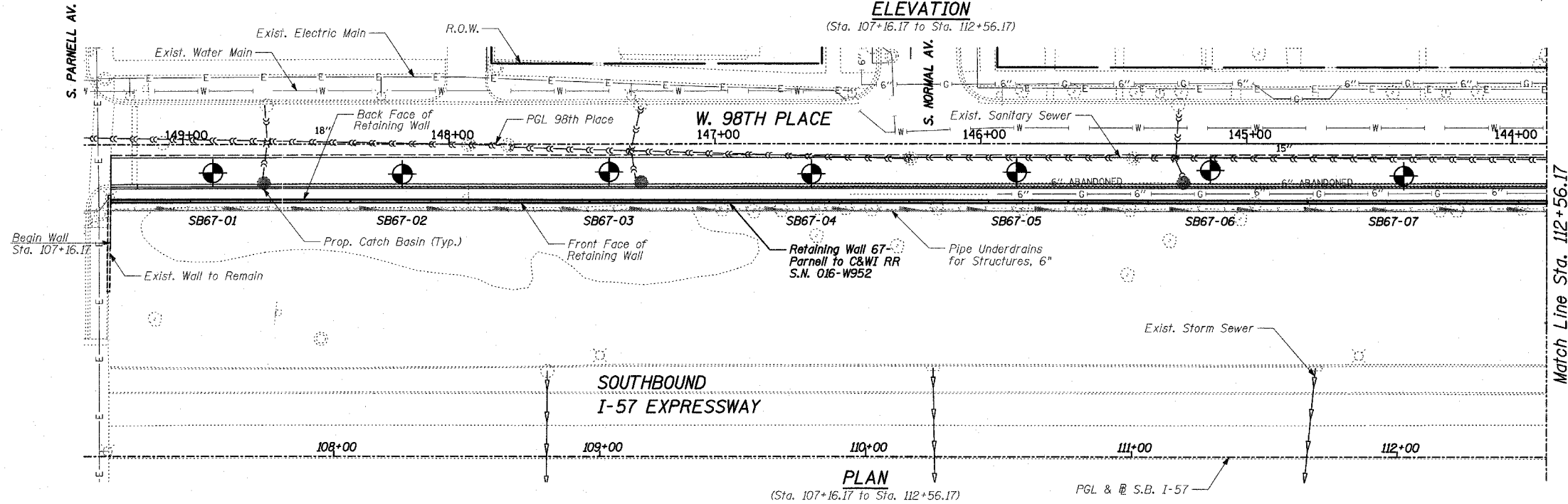
Benchmarks: BM 3558 Set "+" southwesterly flange bolt of hydrant at northwest intersection of Normal St. and 98th Place. El. 18.15

Existing Structure: None.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	24
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2				62931



ELEVATION
(Sta. 107+16.17 to Sta. 112+56.17)



PLAN
(Sta. 107+16.17 to Sta. 112+56.17)

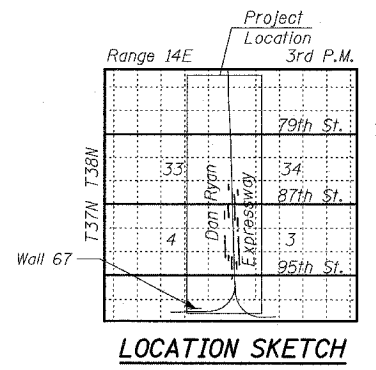
LEGEND

- ⊙ Boring Location
- * Measured along Front Face of Wall.

TYLIN INTERNATIONAL

DESIGN SPECIFICATION
AASHTO 2002 Standard Specifications for Highway Bridges

DESIGN STRESSES
FIELD UNITS
f'c = 3,500 psi
fy = 60,000 psi (Reinforcement)
fy = 36,000 psi (M270 Grade 36) Soldier Piles



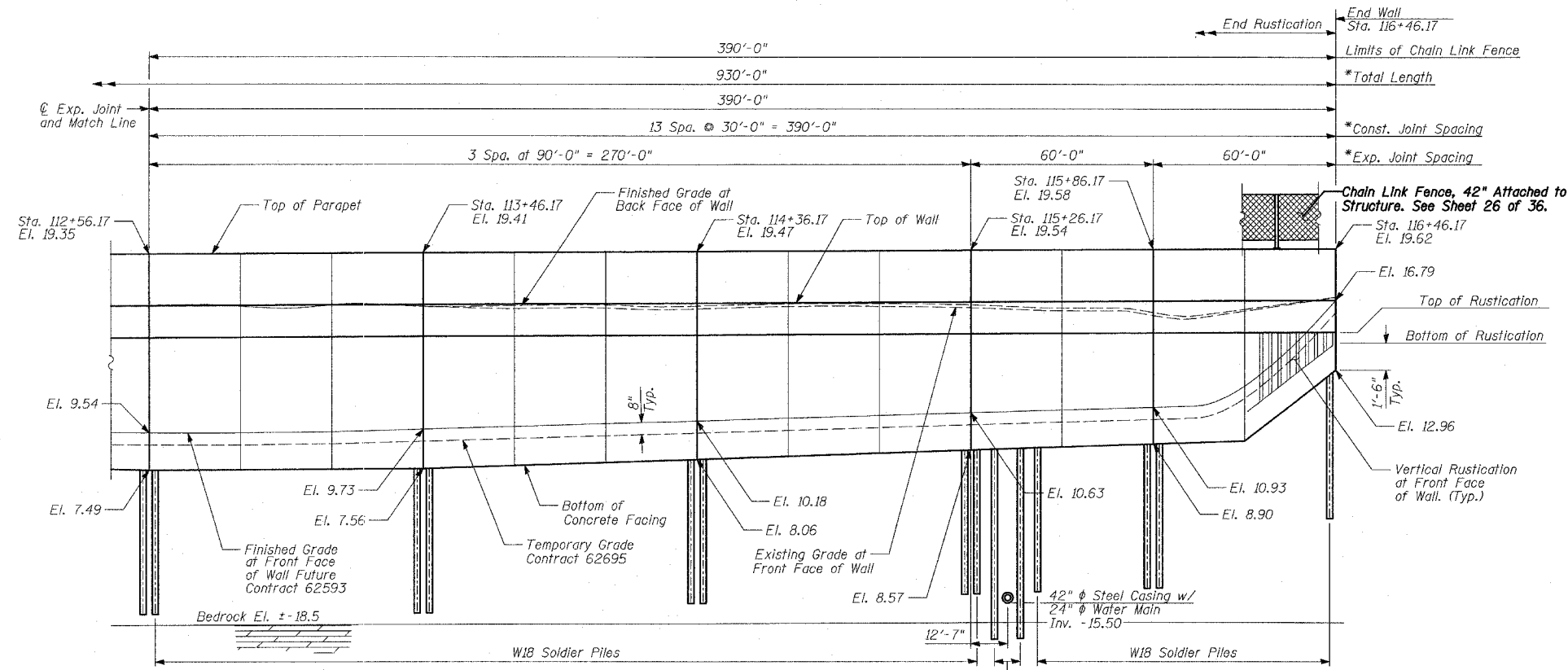
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG W. 98TH PLACE
PARNELL TO C&WI RR
WALL 67 - GENERAL PLAN
STA. 117+16.17 TO STA. 116+46.17
S.N. 016-W952
SCALE: N.T.S.
DATE: APRIL 15, 2005

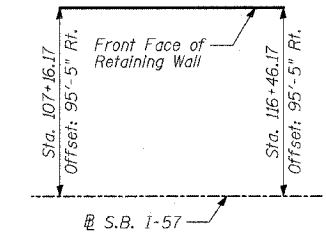
DESIGNED BY: MI, DJR
DRAWN BY: DJR, TB
CHECKED BY: TD, MI

4/14/2005 7:49:38 AM p:\0237\road\c77\ngp\17\1r\101036_w952.dgn

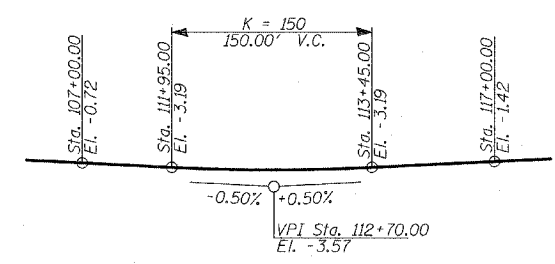
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94		COOK	36	25
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2				62931



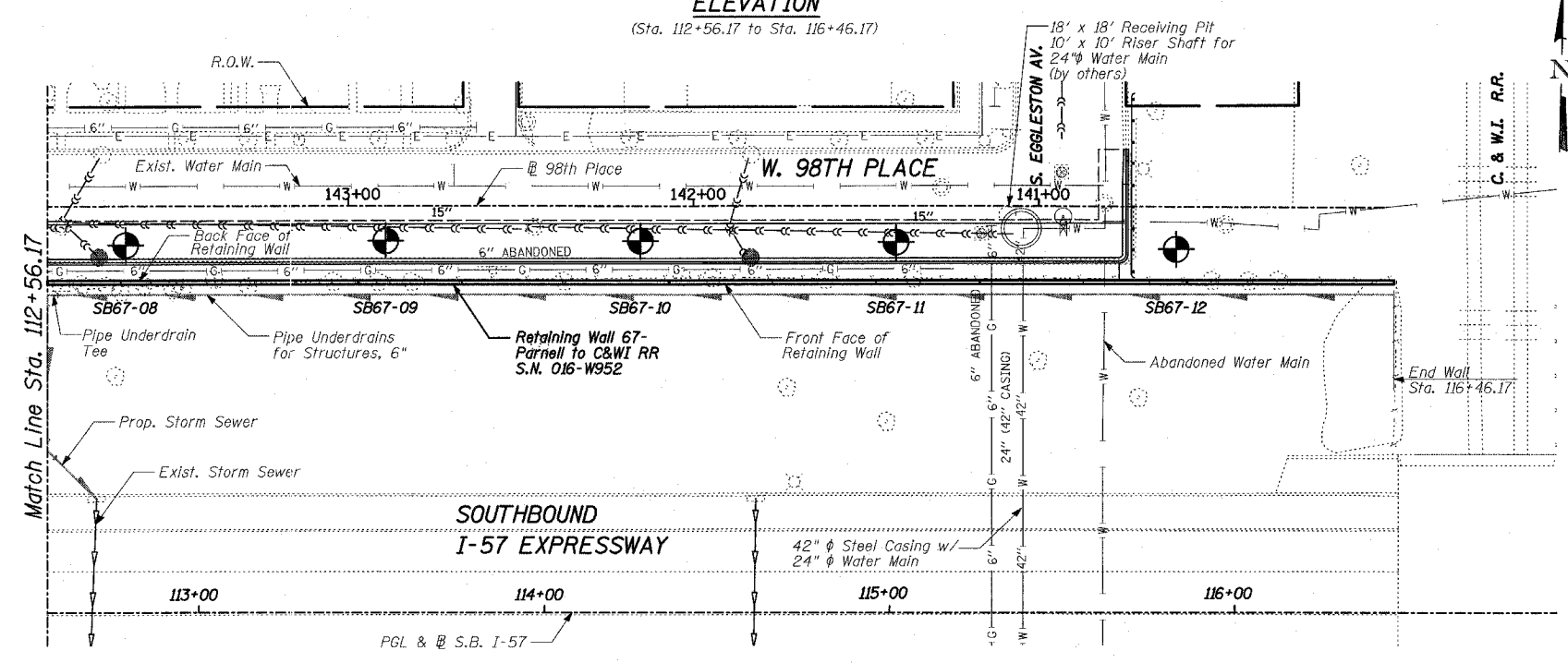
ELEVATION
(Sta. 112+56.17 to Sta. 116+46.17)



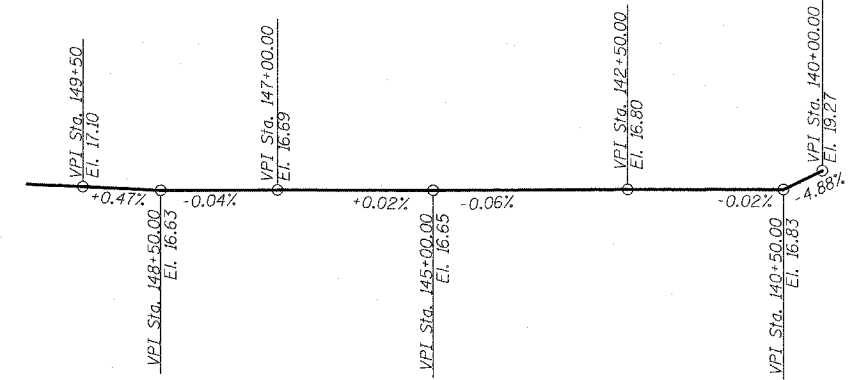
OFFSET SKETCH



PROFILE GRADE
(S.B. I-57)



PLAN
(Sta. 112+56.17 to Sta. 116+46.17)



PROFILE GRADE
(W. 98th Place)

LEGEND

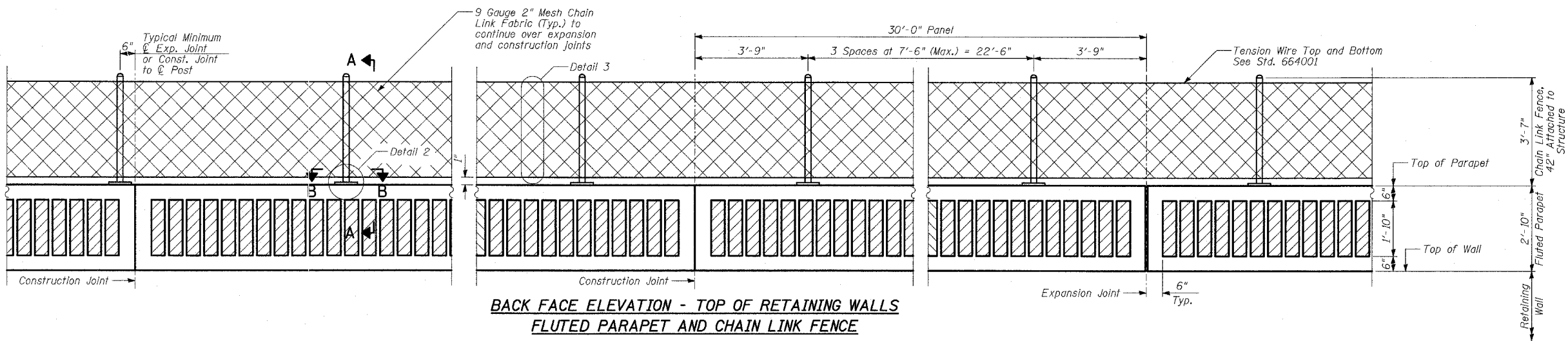
- Boring Location
- * Measured along Front Face of Wall.

TYLIN INTERNATIONAL

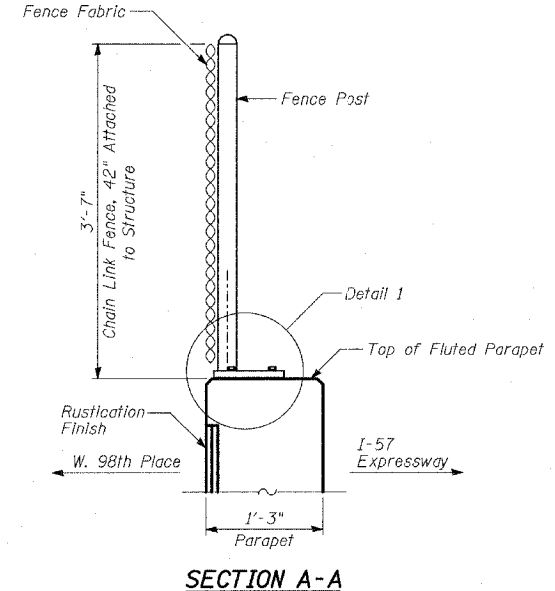
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
RETAINING WALL ALONG W. 98TH PLACE
PARNELL TO C&WI RR
WALL 67 - GENERAL PLAN
STA. 107+16.17 TO STA. 116+46.17
 S.N. 016-W952 DESIGNED BY: MI, DJR
 SCALE: N.T.S. DRAWN BY: DJR, TB
 DATE: APRIL 15, 2005 CHECKED BY: TD, MI

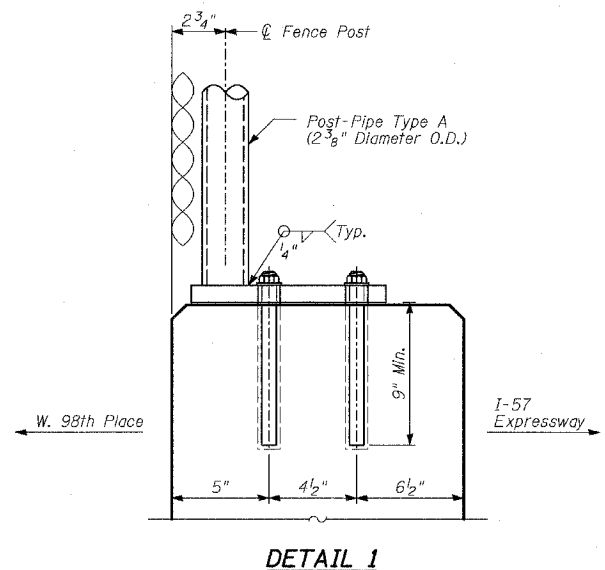
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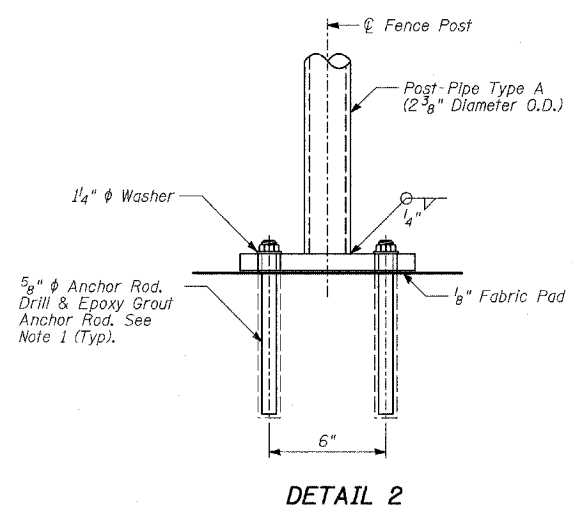
**BACK FACE ELEVATION - TOP OF RETAINING WALLS
FLUTED PARAPET AND CHAIN LINK FENCE**



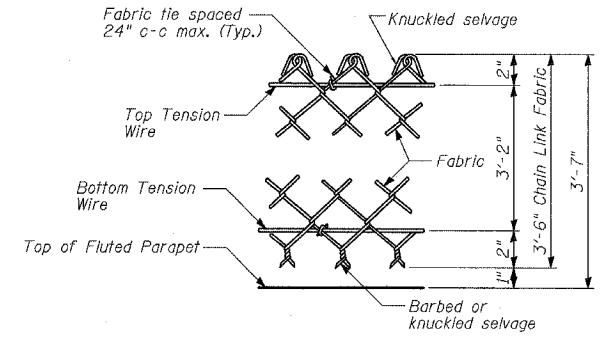
SECTION A-A



DETAIL 1



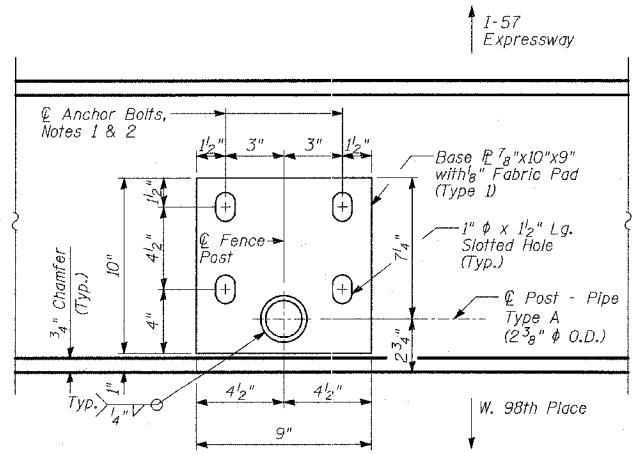
DETAIL 2



DETAIL 3

BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
67	Chain Link Fence, 42" Attached to Structure	FOOT	930



**SECTION B-B
BASE PLATE PLAN**

NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

REVISIONS	
NAME	DATE

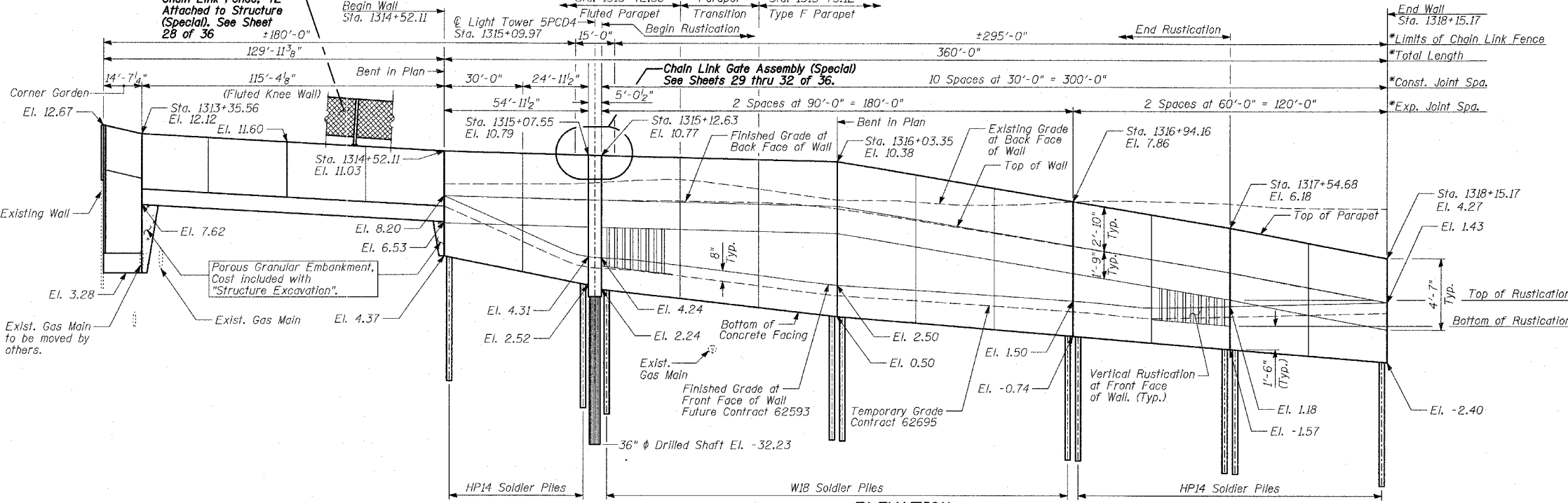
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
**WALL 67 - CHAIN LINK FENCE,
42" ATTACHED TO STRUCTURE**

SCALE: N.T.S.
DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
DRAWN BY: DJR
CHECKED BY: TD, MI

Benchmarks:
 BM 3810 Cut square on southerly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan, opposite of West 77th Place, approximately 1000 feet north of 79th Street bridge. Elev. 0.29 feet.
 BM 3811 Cut square on southeasterly corner of metal base for overhead sign, on the westerly side of southbound Dan Ryan approximately 840 feet southerly of 83rd Street. Elev. 1.95 feet.

Existing Structure: None.



DESIGN SPECIFICATION

AASHTO 2002 Standard Specifications for Highway Bridges

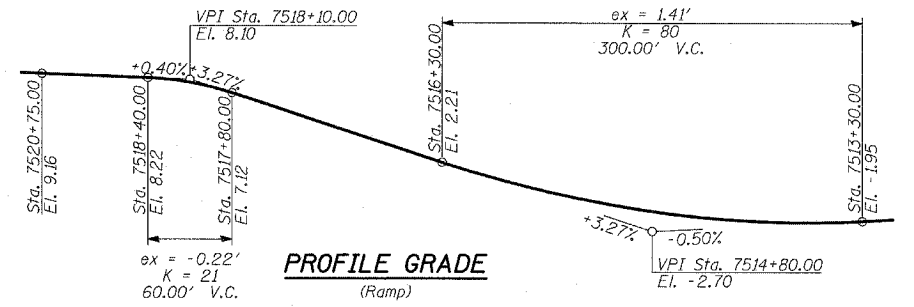
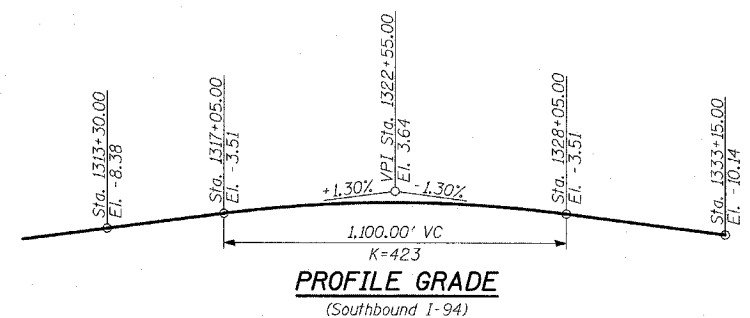
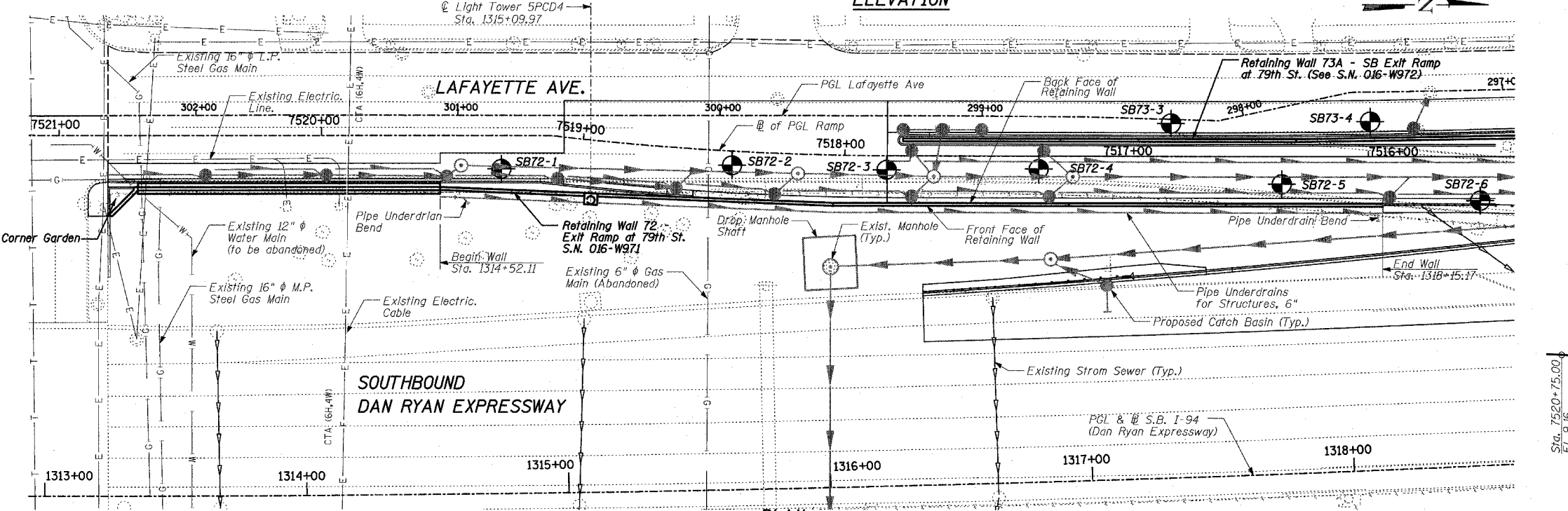
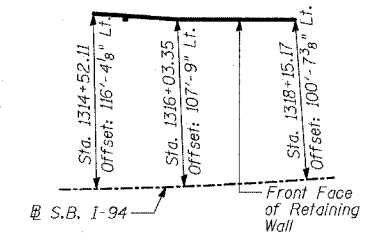
DESIGN STRESSES

FIELD UNITS

f'_c = 3,500 psi
 f_y = 60,000 psi (Reinforcement)
 f_y = 36,000 psi (M270 Grade 36) Solder Piles

LOADING

Maximum soil pressure under footings is 2250 psf.

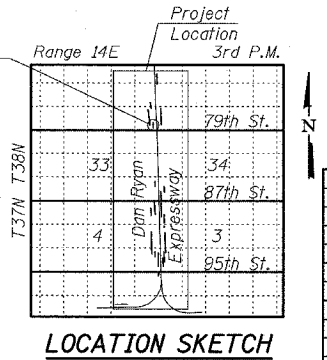
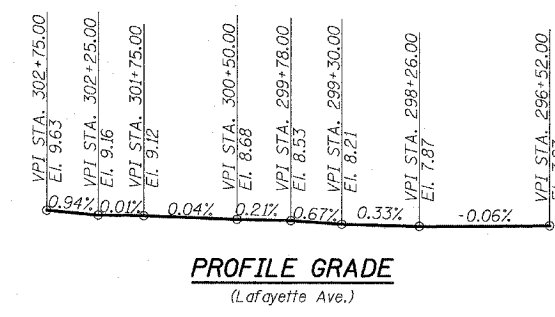


LEGEND

- Boring Location
- * Measured along Front Face of Wall.

GENERAL NOTES:

PLAN

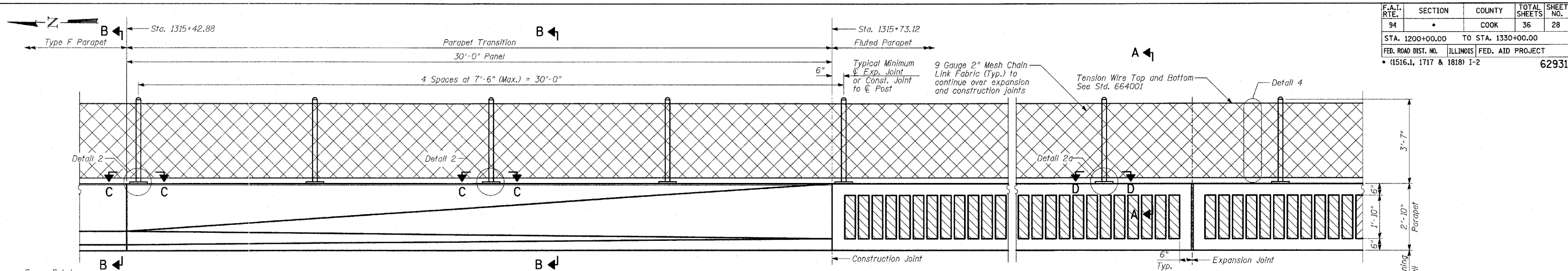


REVISIONS	
NAME	DATE

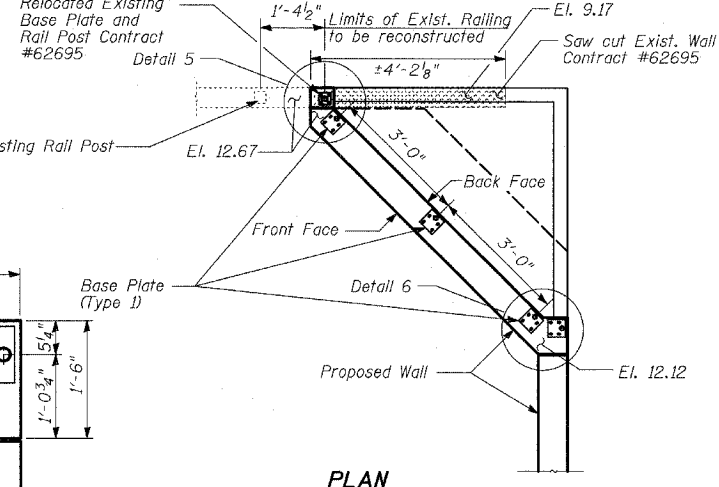
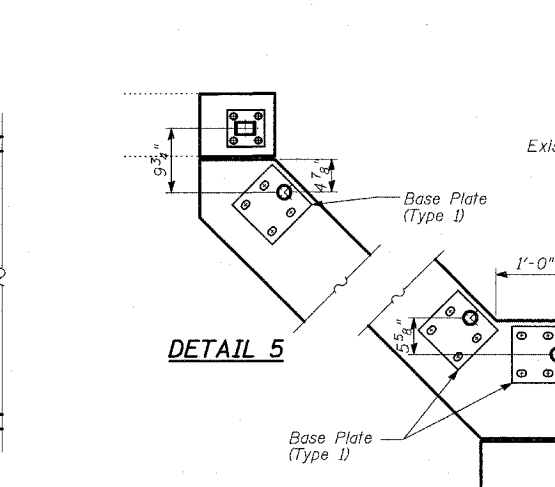
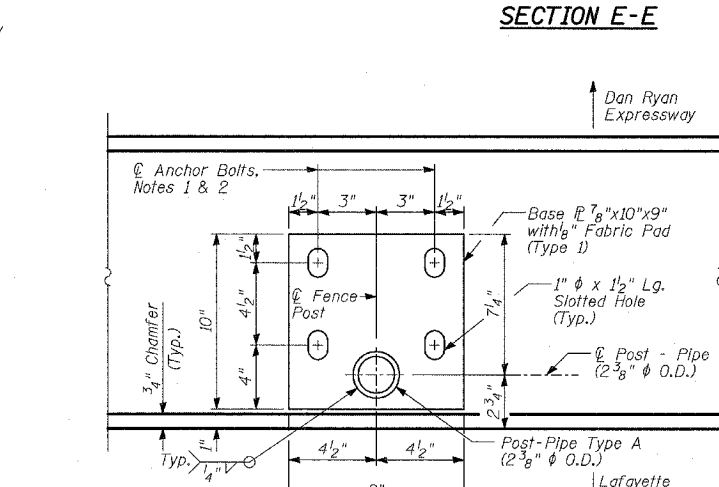
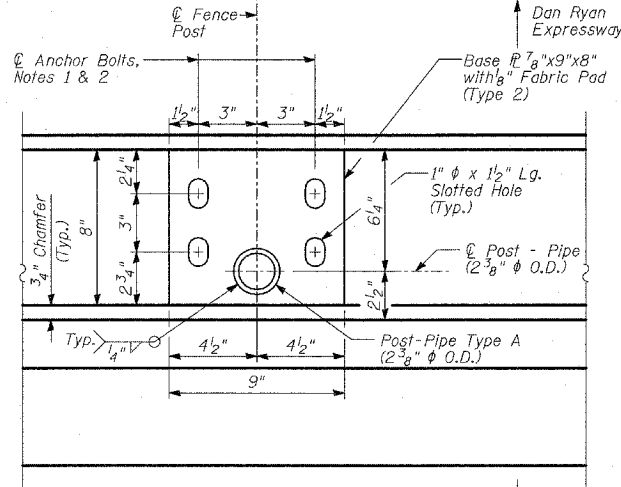
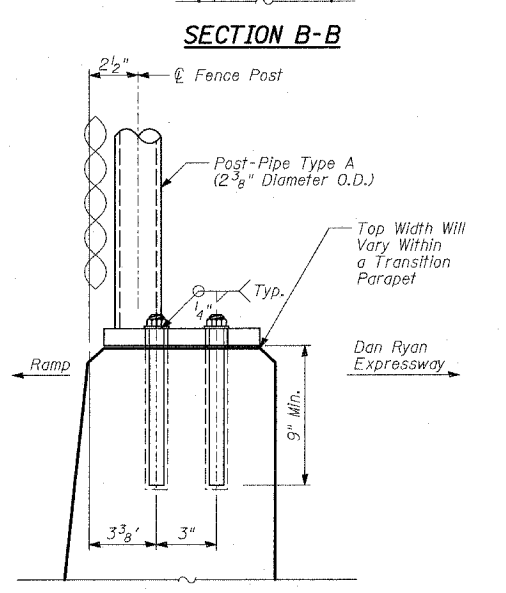
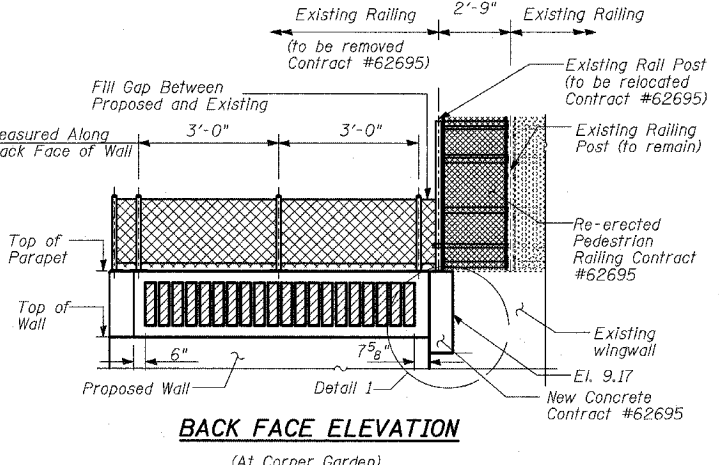
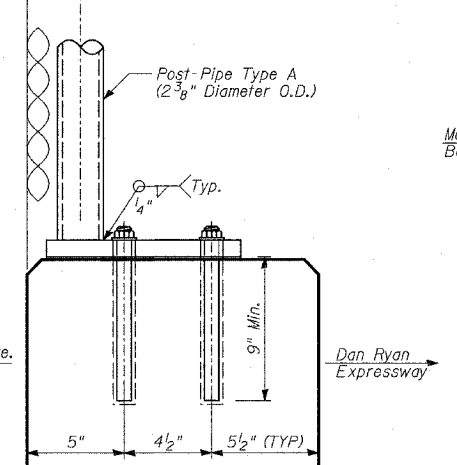
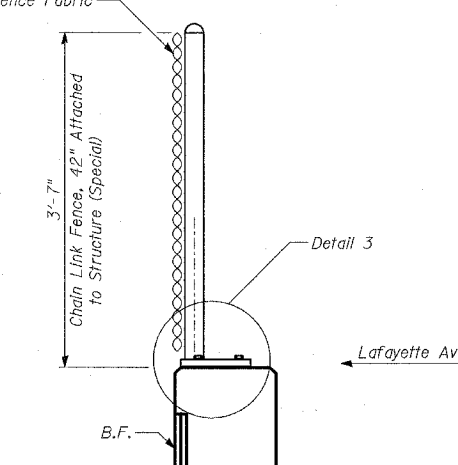
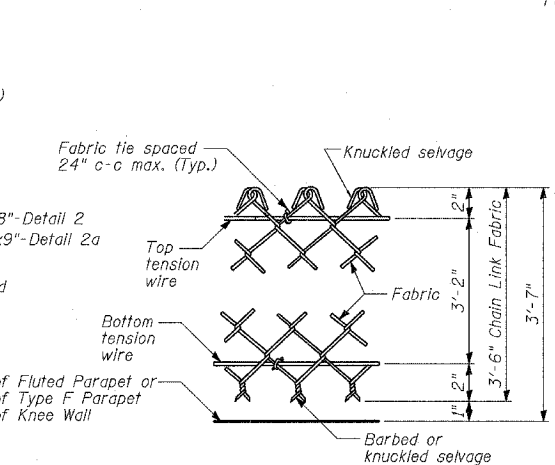
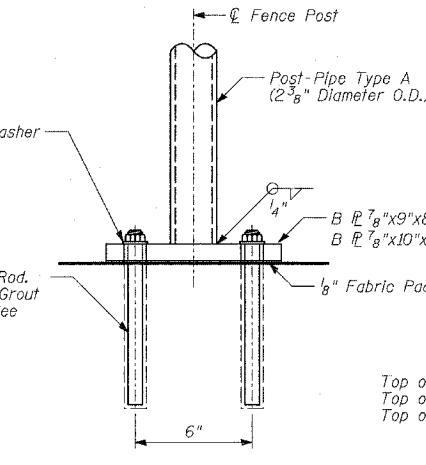
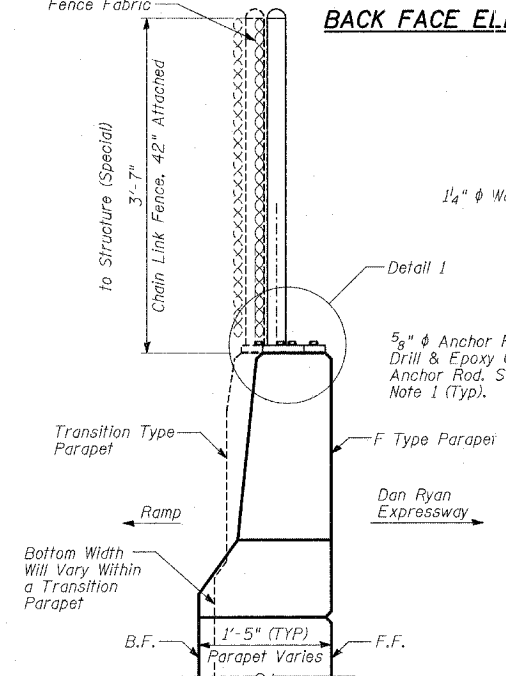
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND EXIT RAMP RETAINING WALL
 AT 79TH ST.
 WALL 72 - GENERAL PLAN
 STA. 1314+52.11 TO STA. 1318+15.17
 S.N. 016-W971
 SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, MAF
 DRAWN BY: MAF, DJR
 CHECKED BY: TD, MI

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	28
STA. 1200+00.00 TO STA. 1330+00.00		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO.		• (1516.1, 1717 & 1818) I-2		
		62931		



BACK FACE ELEVATION - F TYPE PARAPET, PARAPET TRANSITION, FLUTED PARAPET AND CHAIN LINK FENCE - (TYPICAL)



BILL OF MATERIAL

WALL	ITEM	UNIT	TOTAL
72	Chain Link Fence, 42" Attached to Structure (Special)	FOOT	475

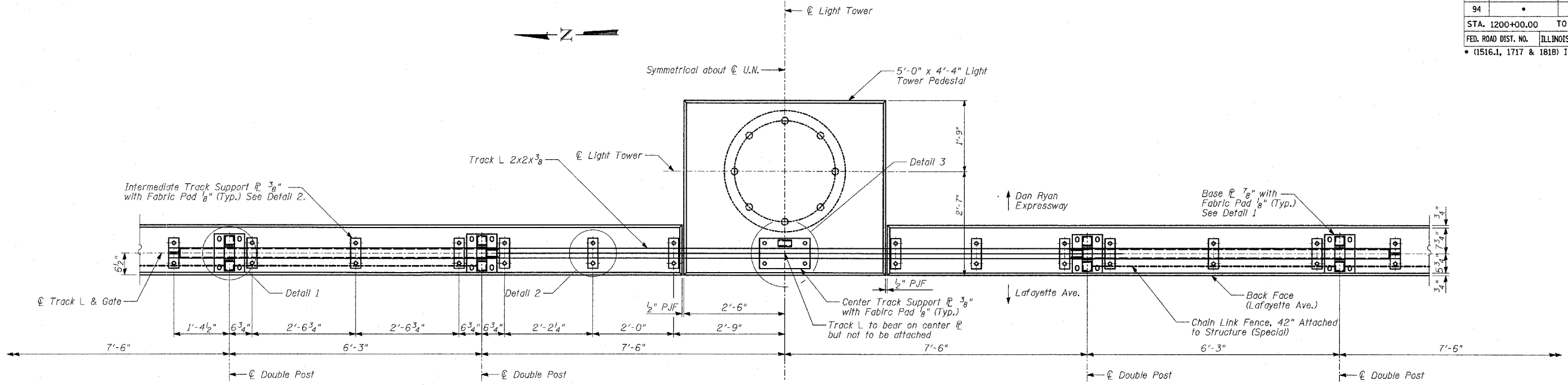
NOTES:

- The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed.
- For additional chain link fence details, see Standard 664001.

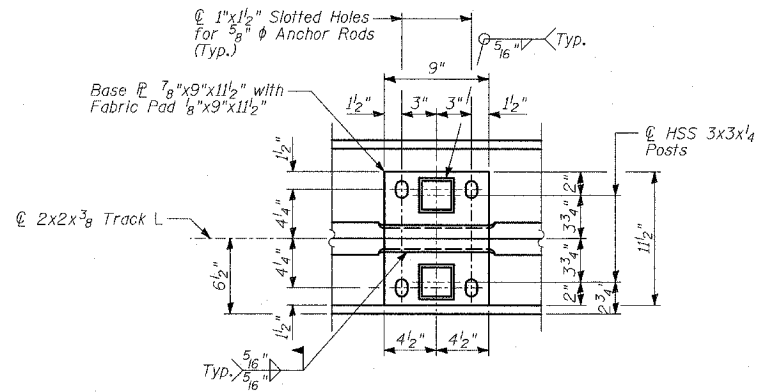
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 SOUTHBOUND EXIT RAMP RETAINING WALL
 AT 79TH ST. - WALL 72
 CHAIN LINK FENCE, 42"
 ATTACHED TO STRUCTURE (SPECIAL)
 DESIGNED BY: MI, MAF
 DRAWN BY: MAF, DJR
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 CHECKED BY: TD, MI

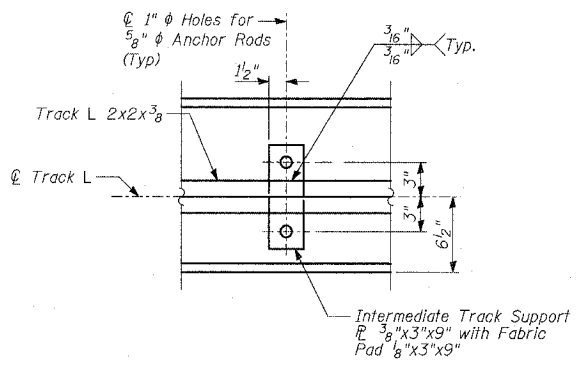
04/14/2005 11:11:37 AM



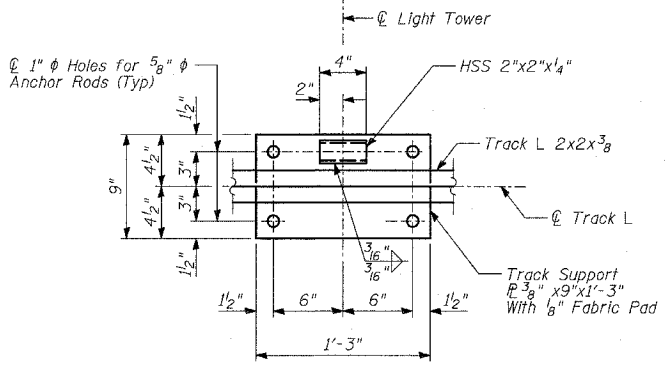
PLAN - GATE IN OPEN POSITION



DETAIL 1 - BASE P PLAN



DETAIL 2



DETAIL 3

BILL OF MATERIAL

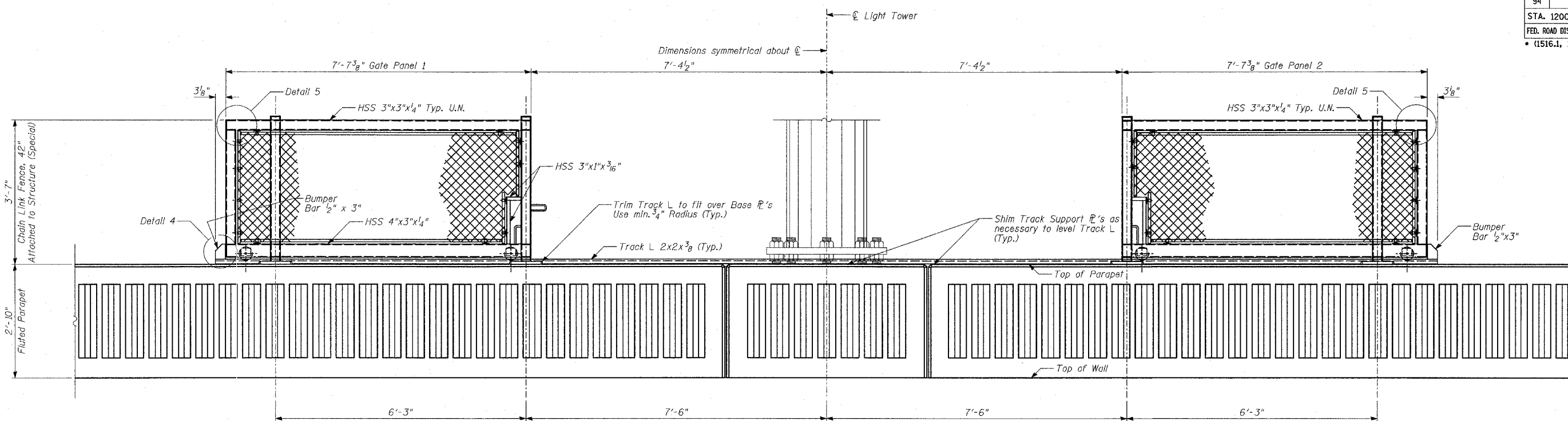
WALL	ITEM	UNIT	TOTAL
36	Chain Link Gate Assembly (Special)	EACH	1
38	Chain Link Gate Assembly (Special)	EACH	1
72	Chain Link Gate Assembly (Special)	EACH	1
73A	Chain Link Gate Assembly (Special)	EACH	1
73B	Chain Link Gate Assembly (Special)	EACH	2
	TOTAL	EACH	6

- NOTES:
- All rods shall be stainless steel conforming to ASTM F593-98 and F594-98.
 - All pipes and bars shall be hot dipped galvanized after fabrication.
 - For Back Face Elevations, see Sheet 30 of 36.
 - For Anchor Rod Details, see Sheet 31 of 36.

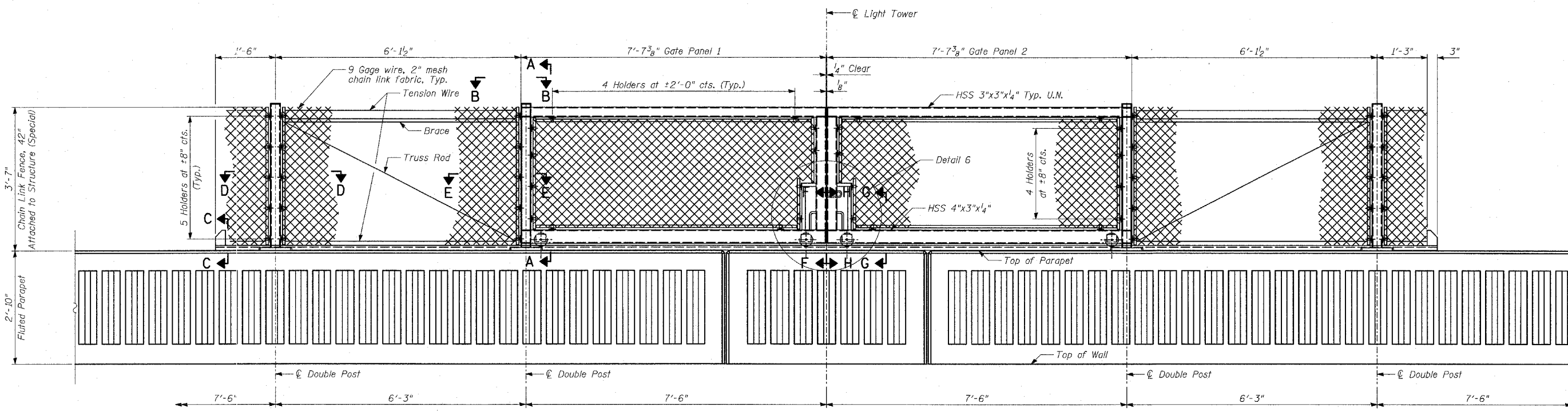
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94 (DAN RYAN EXPRESSWAY)
 WALLS 36, 38, 72, 73A, 73B
 GATE PLAN AND NOTES
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI

4/14/2005 1:48:58 AM
 P:\0237\3\0237.dwg
 4/14/2005 1:48:58 AM



BACK FACE ELEVATION - GATE IN OPEN POSITION



BACK FACE ELEVATION - GATE IN CLOSED POSITION

TYLIN INTERNATIONAL

- NOTES:**
1. For notes, see Sheet 29 of 36.
 2. For Sections A-A, B-B, D-D & E-E, see Sheet 31 of 36.
 3. For Sections C-C, F-F, G-G, H-H, J-J and Details 4, 5, 6 & 7, see Sheet 32 of 36.

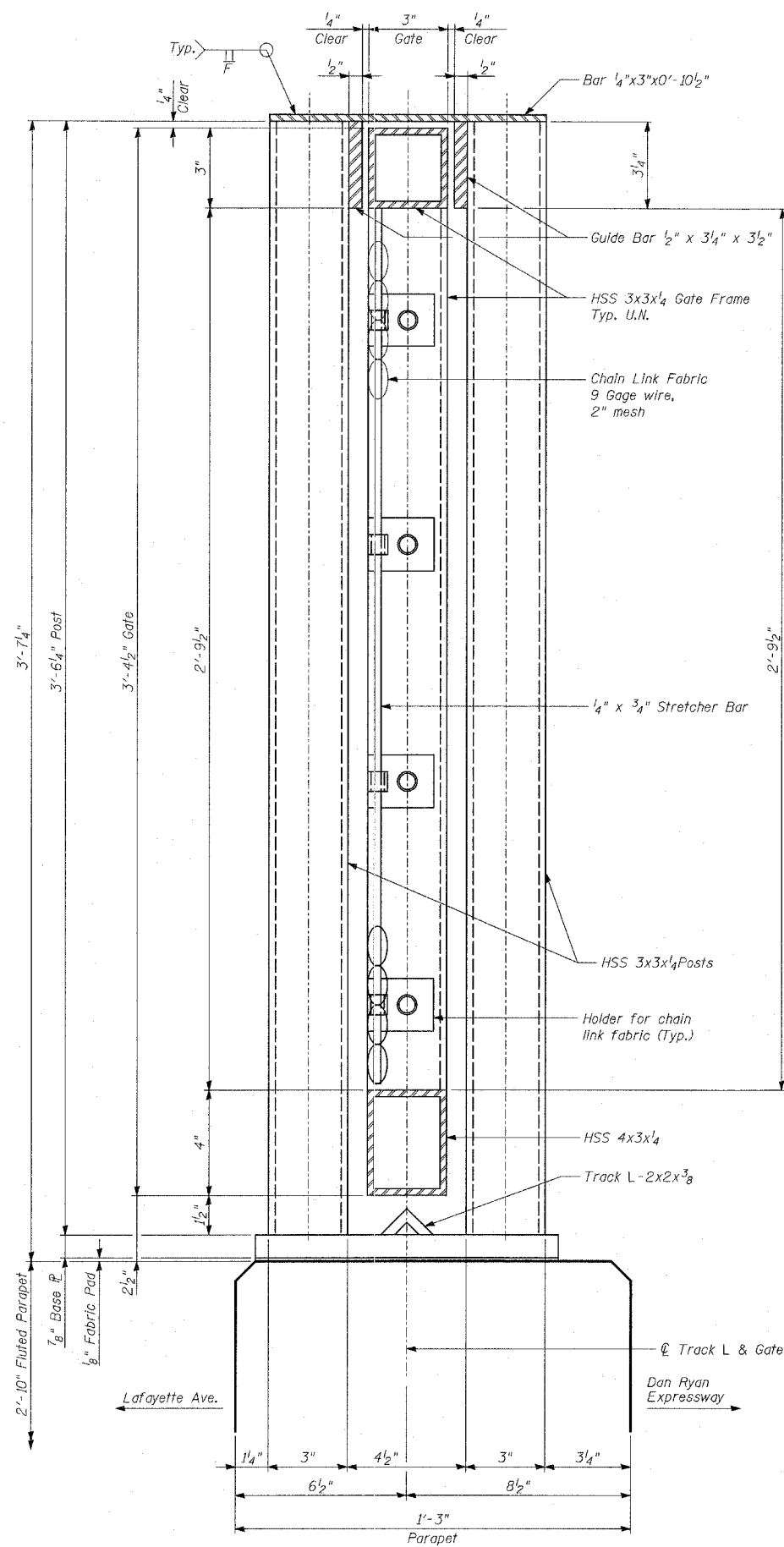
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
WALLS 36, 38, 72, 73A, 73B
GATE ELEVATIONS

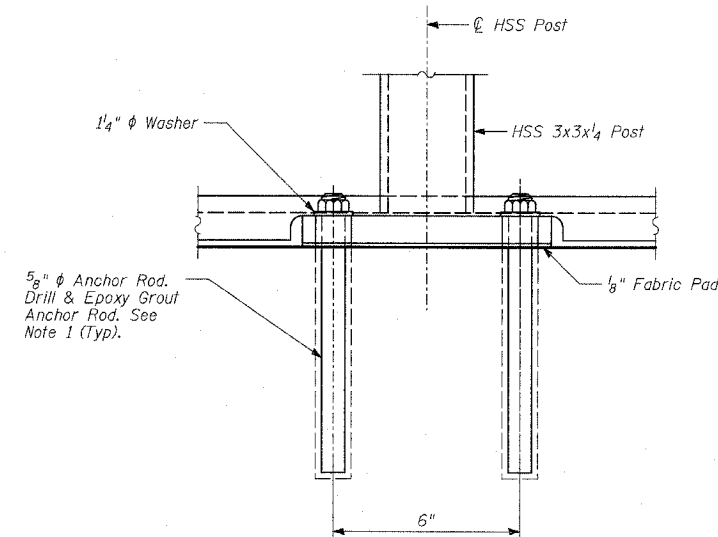
SCALE: N.T.S.
 DATE: APRIL 15, 2005

DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: MI, TD

4/14/2005 7:09:59 AM

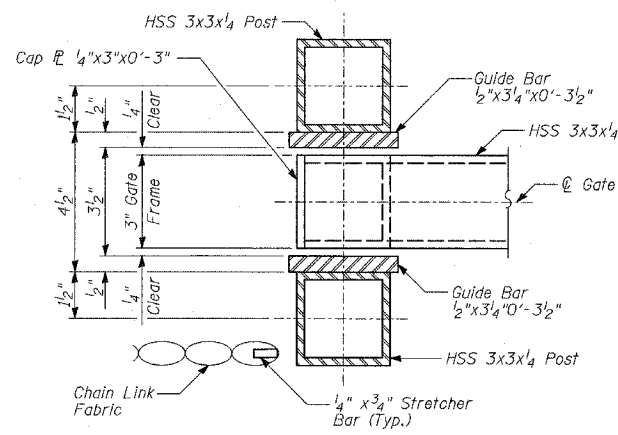
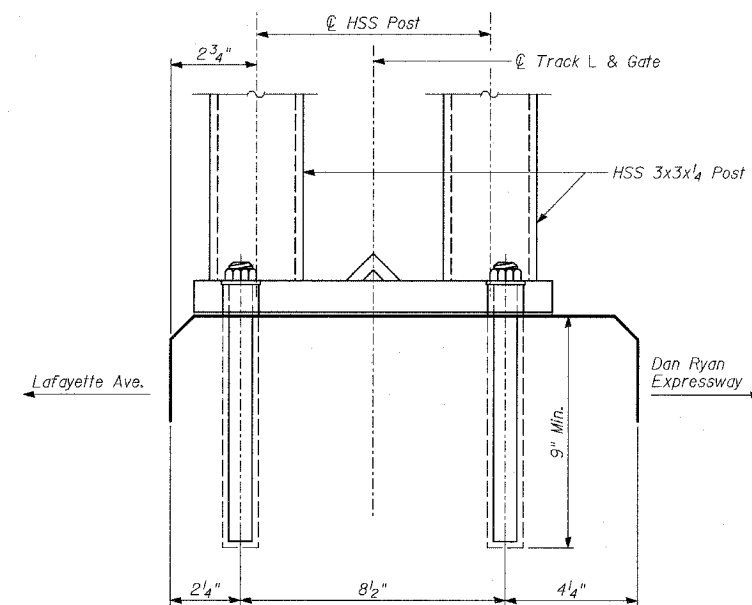


SECTION A-A

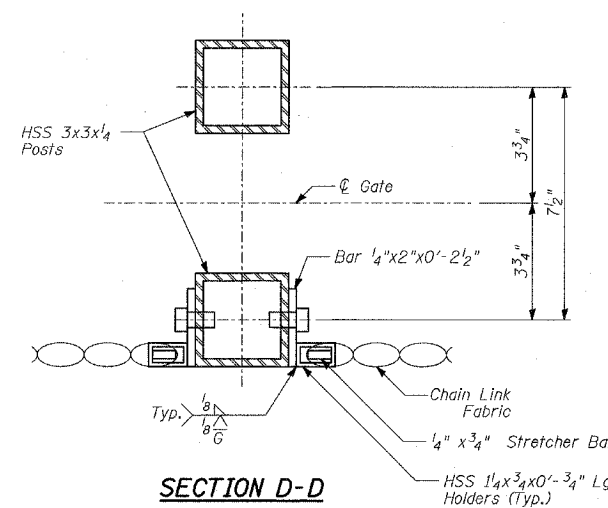


ANCHOR ROD DETAILS

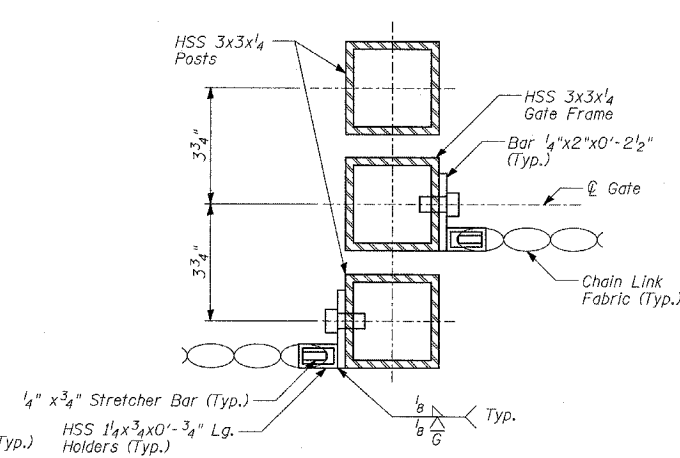
The Contractor shall drill and epoxy grout 5/8" diameter anchor rods. The Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given prior approval by the Department for the above specified anchor rod spacing. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures. The capsule or adhesive cartridge shall be sealed with pre-measured amounts of adhesive chemical. Anchor rod threading to be peened after nuts are installed. See details 2 & 3 on sheet 29 of 36 for anchor rod spacing.



SECTION B-B



SECTION D-D



SECTION E-E

NOTES:

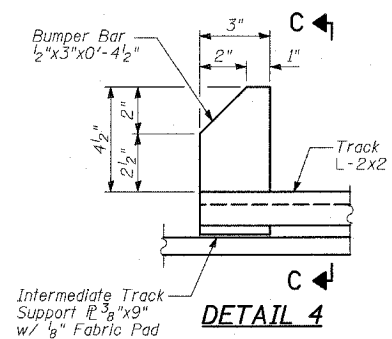
1. For Notes See Sheet 29 of 36.
2. For Anchor Rod locations, see Details 1, 2 & 3 on Sheet 29 of 36.

REVISIONS	
NAME	DATE

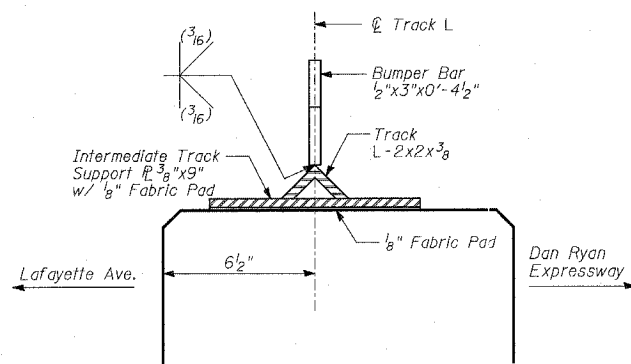
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
WALLS 36, 38, 72, 73A, 73B
GATE SECTIONS

SCALE: N.T.S.
DATE: APRIL 15, 2005
DESIGNED BY: MI, DJR
DRAWN BY: DJR
CHECKED BY: TD, MI

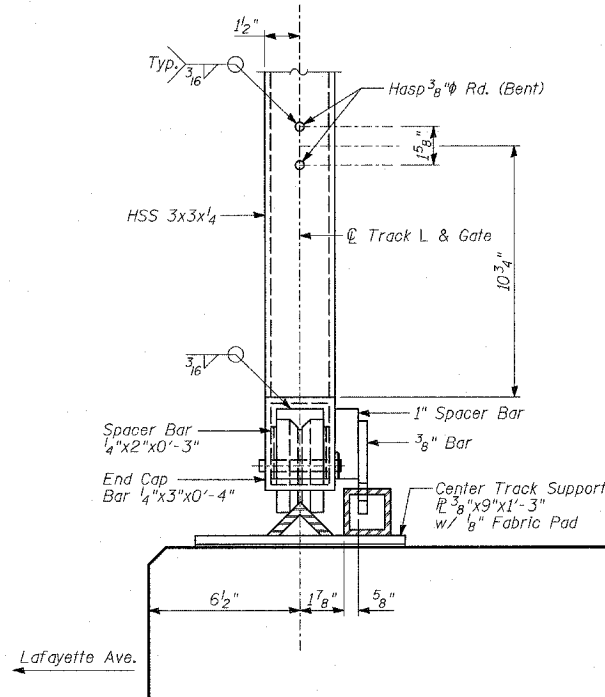
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	•	COOK	36	32
STA. 1200+00.00		TO STA. 1330+00.00		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
(1516.1, 1717 & 1818) I-2		62931		



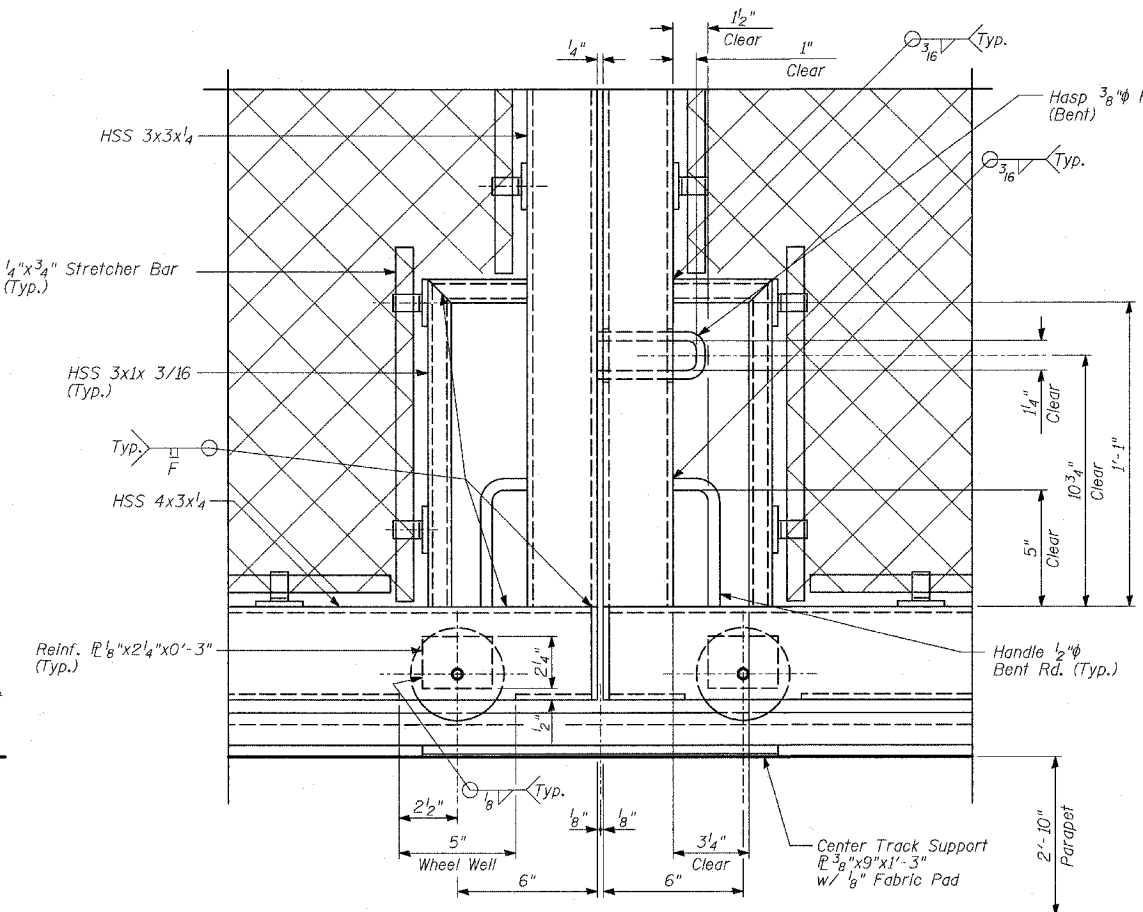
DETAIL 4



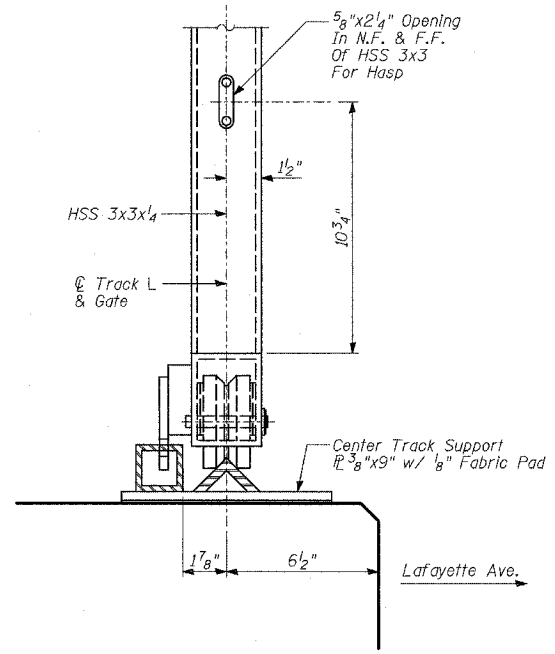
SECTION C-C



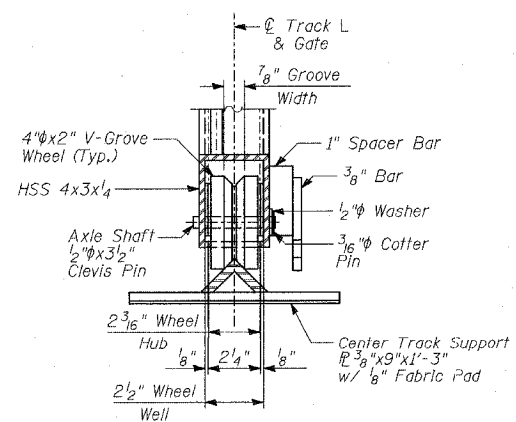
SECTION F-F



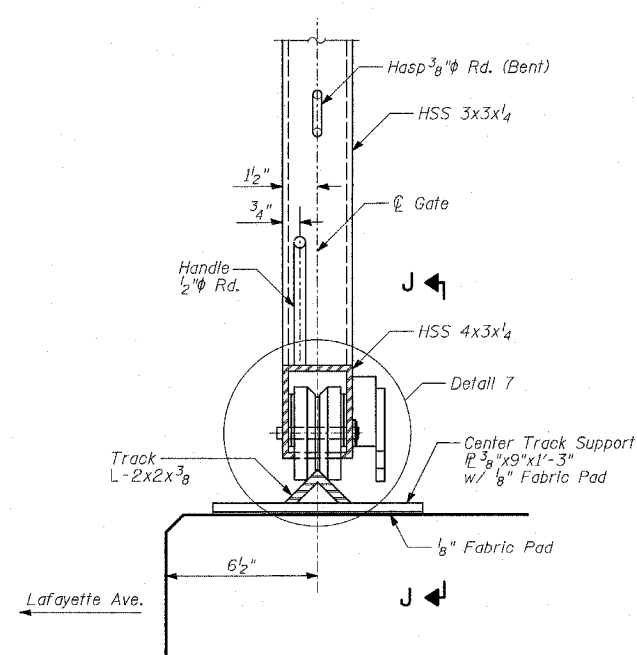
DETAIL 6



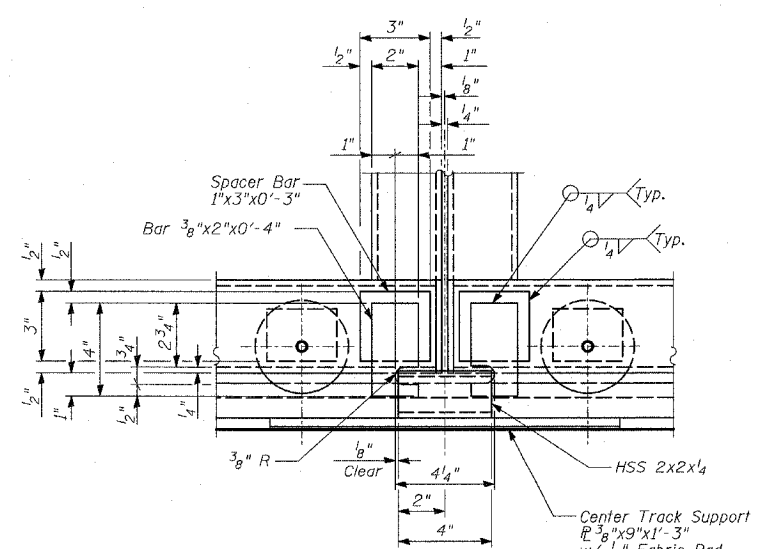
SECTION H-H



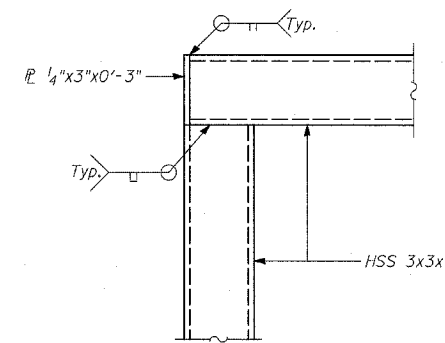
DETAIL 7



SECTION G-G



SECTION J-J



DETAIL 5

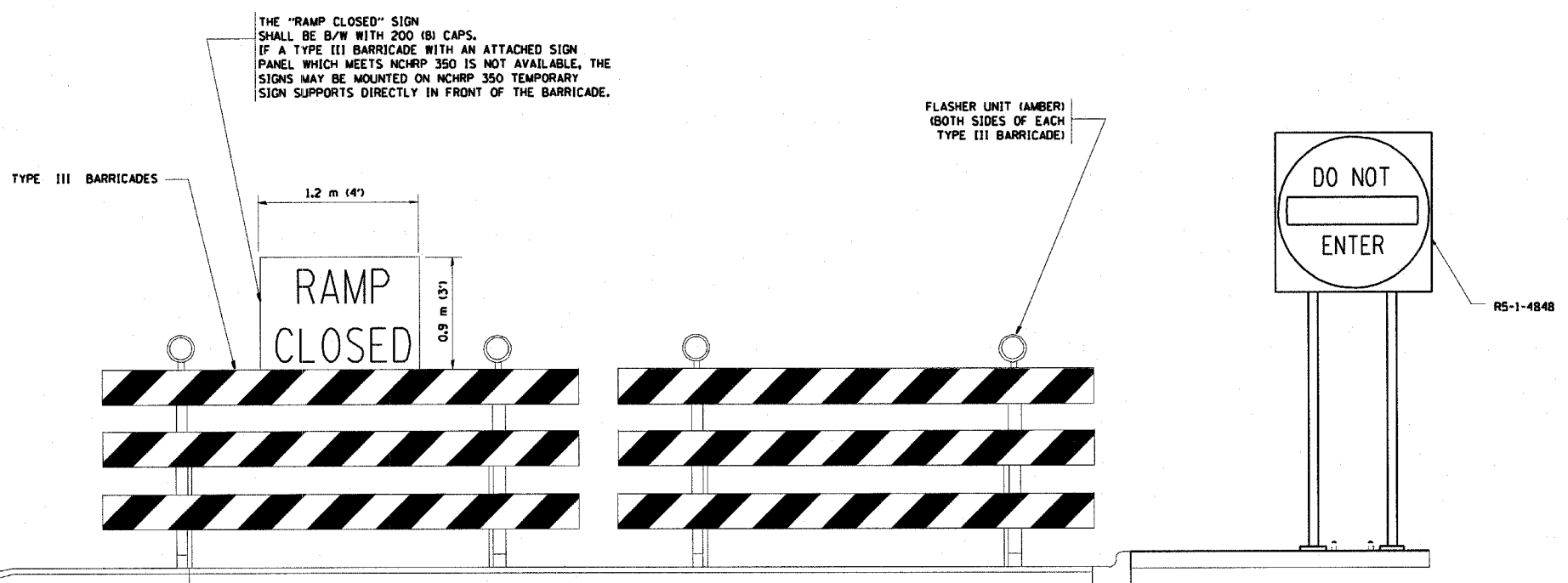
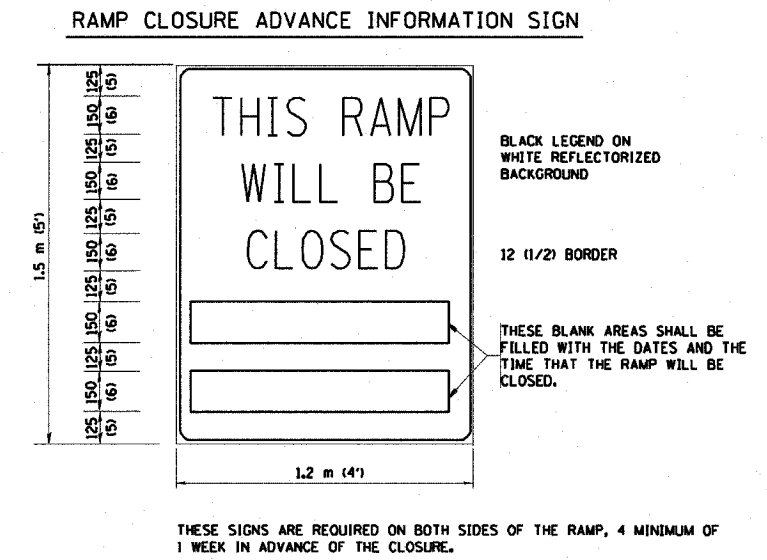
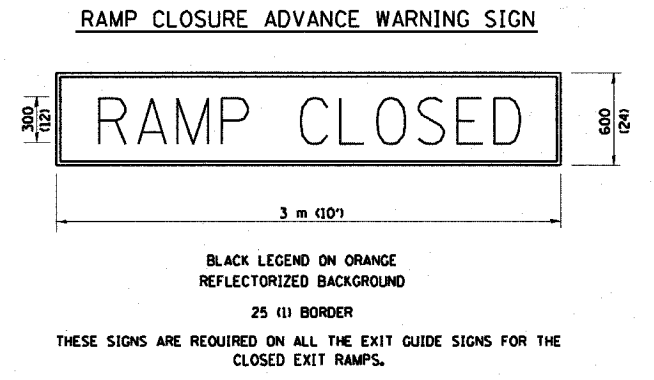
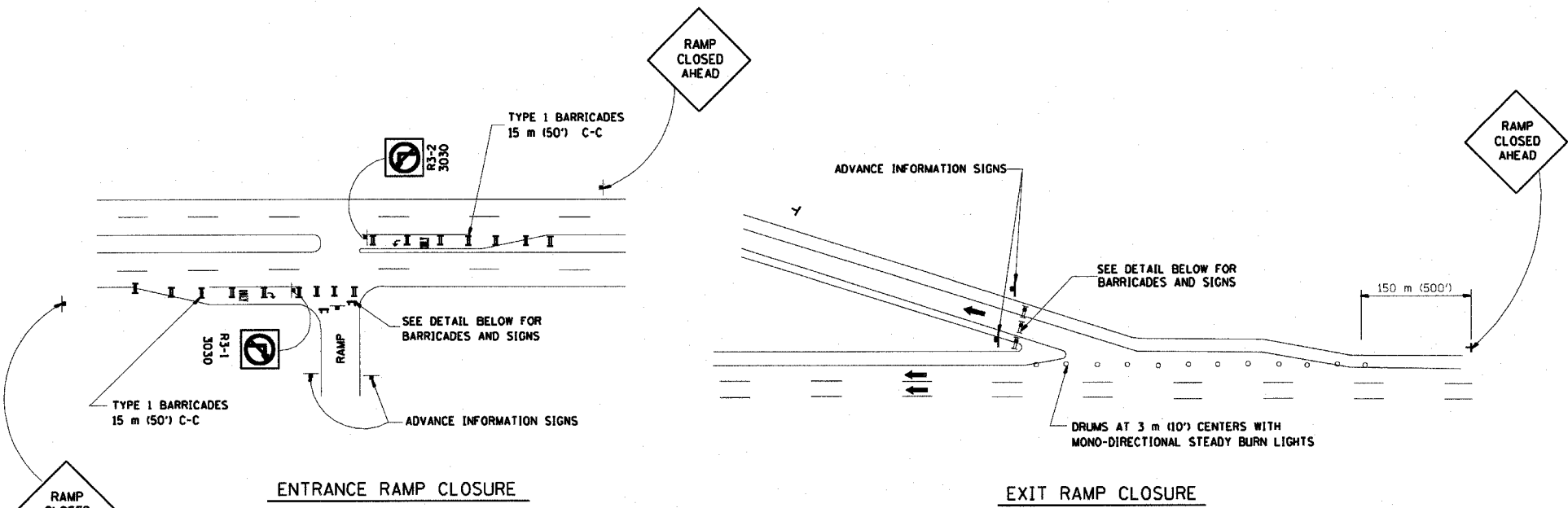
NOTES:

1. For notes, see Sheet 29 of 36.
2. For Anchor Rod locations, see Sheet 29 of 36.
3. For Anchor Rod details, see Sheet 31 of 36.
4. N.F. - denotes Near Face.
5. F.F. - denotes Far Face.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94 (DAN RYAN EXPRESSWAY)
WALLS 36, 38, 72, 73A, 73B
GATE SECTIONS AND DETAILS
 SCALE: N.T.S.
 DATE: APRIL 15, 2005
 DESIGNED BY: MI, DJR
 DRAWN BY: DJR
 CHECKED BY: TD, MI

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	36	33
STA. 1200+00.00 TO STA. 1330+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*(1516, 1717 + 1818) I-2 62931				



- GENERAL NOTES:**
- CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 700 (28") HIGH.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES.
 - FOR DAYTIME RAMP CLOSURES, LASTING 6 HOURS OR LESS, THE CONTRACTOR MAY ELIMINATE THE ADVANCE WARNING SIGNS ON THE EXIT GUIDE SIGNS.
 - ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED.
 - THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE CONSIDERED INCIDENTAL TO TRAFFIC CONTROL AND PROTECTION.
 - AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.

- NOTES:**
- CONES MAY BE SUBSTITUTED FOR TYPE I AND TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28" IN HEIGHT.
 - STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
 - THE RAMP CLOSURE ADVANCE INFORMATION SIGNS SHALL BE ERECTED IF THE CLOSURE TIME EXCEEDS TWENTY-FOUR (24) HOURS.
 - ADDITIONAL ADVANCE WARNING SIGNS ON EXIT GUIDE SIGNING WILL BE REQUIRED FOR EXIT RAMP CLOSURES THAT EXCEED TWENTY FOUR (24) HOURS IN LENGTH.

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

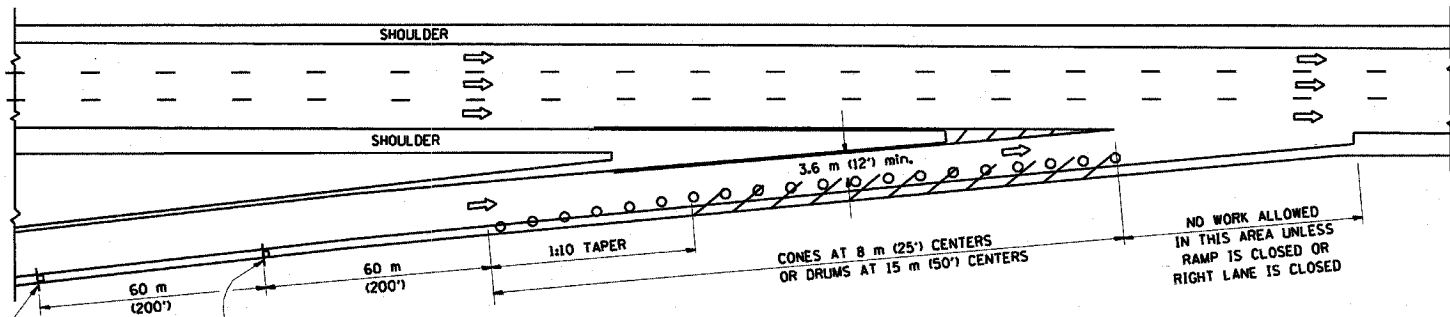
FREWAY ENTRANCE AND EXIT RAMP CLOSURE DETAILS

REVISIONS

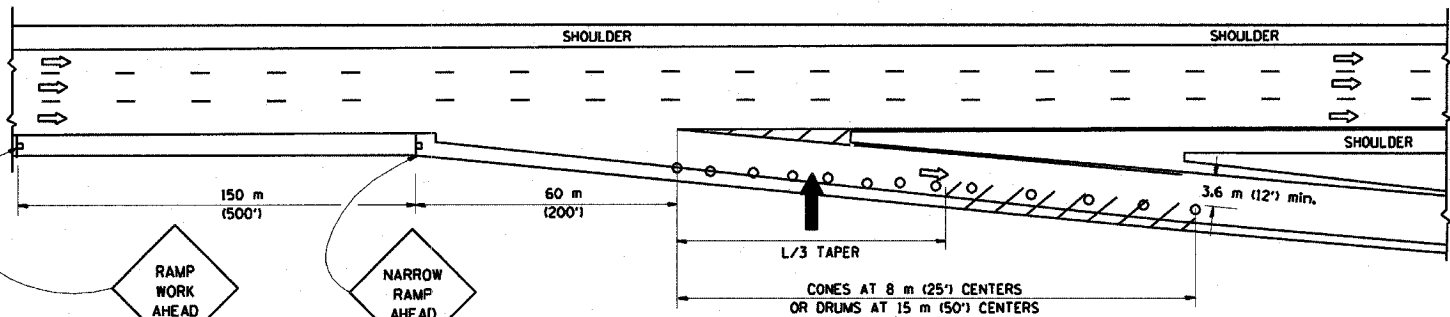
NAME	DATE
DWS	2-83
DWS	1/90
DWS	9/94
DWS	12/94
DWS/JAF	12/02
Revise devices to meet NCHRP 350	4/03

SCALE: NONE
DATE: 05/06/2003
DRAWN BY:
CHECKED BY:
TC-8

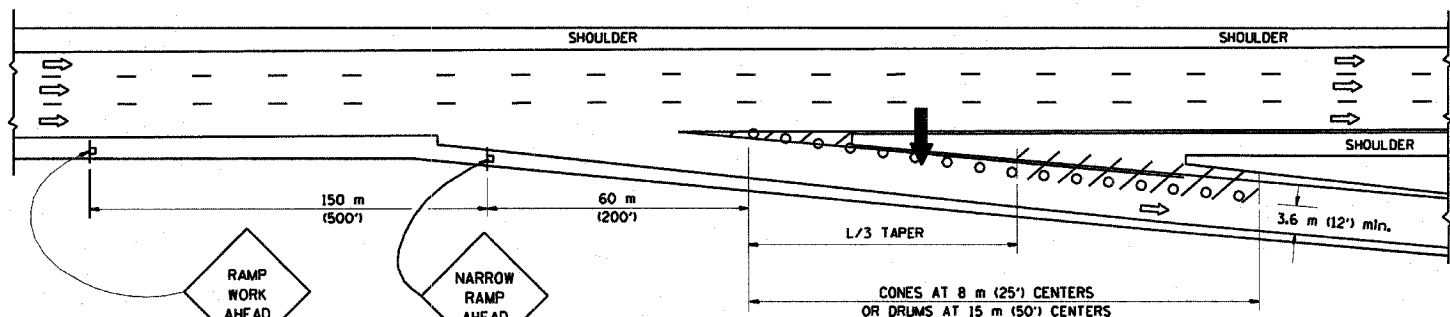
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- CONES - 700 (28) IN HEIGHT

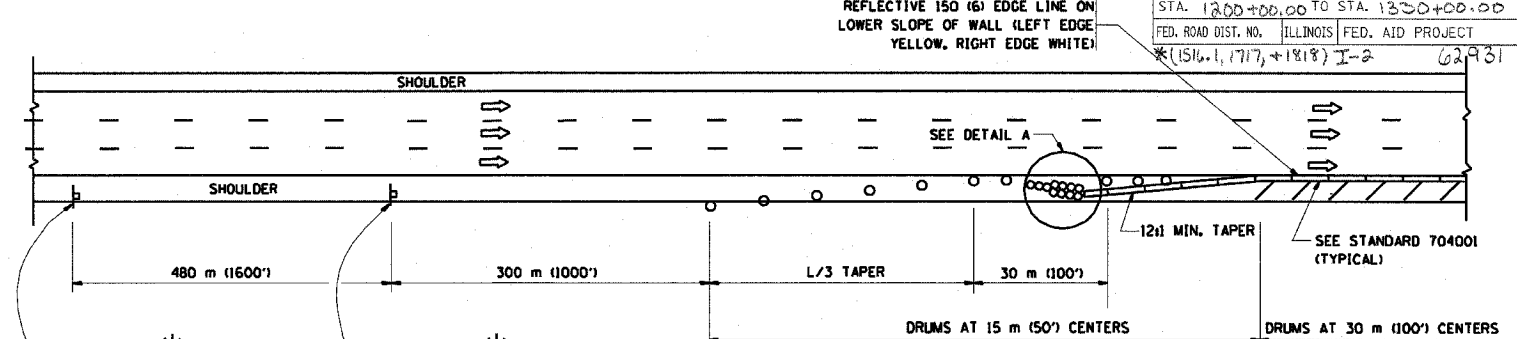
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:

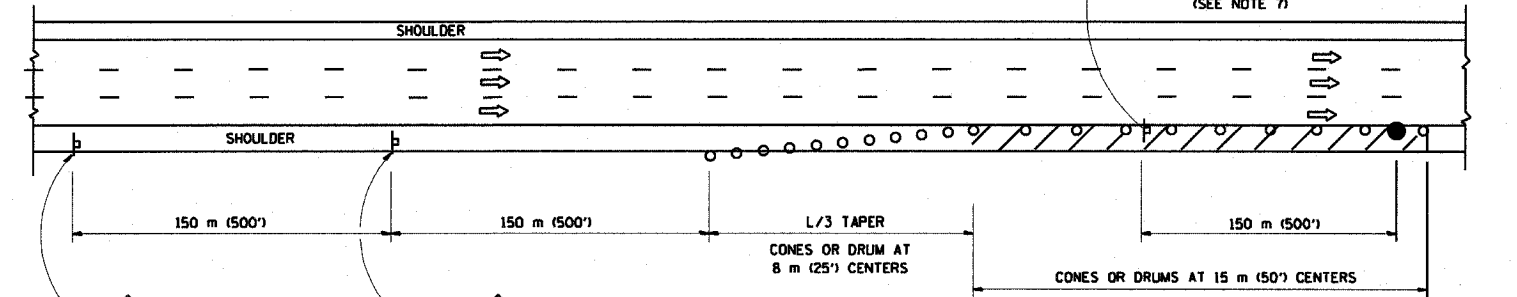
SPEED LIMIT	FORMULAS
80 km/h (45 mph)	METRIC ENGLISH
OR GREATER:	$L=0.65(W)(S)$ $L=(W)(S)$
W = WIDTH OF OFFSET IN METERS (FEET)	
S = NORMAL POSTED SPEED KM/H (MPH)	
2. PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
3. ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
4. FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

SHOULDER CLOSURE DETAILS

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	*	COOK	26	34
STA. 1200+00.00 TO STA. 1300+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*(1516.1, 1717, +1818) I-2 62931				



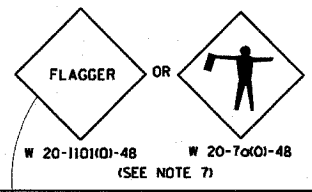
PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

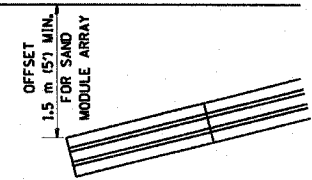
REFLECTIVE 150 (6) EDGE LINE ON LOWER SLOPE OF WALL (LEFT EDGE YELLOW, RIGHT EDGE WHITE)

OR WHEN SPECIFIED INSTALL TEMPORARY CONCRETE BARRIER WALL WITH BARRIER WALL REFLECTORS PER STANDARD 701402, DETAIL A.



THIS DETAIL IS USED WHERE:
 1. VEHICLES, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCR OACH IN AN AREA CLOSER THAN 4.5 m (15') TO THE EDGE OF PAVEMENT FOR A PERIOD IN EXCESS OF 15 MINUTES.

ARRAY DESIGN PER MANUFACTURER TO BE NCHRP 350 COMPLIANT FOR POSTED SPEED.



DETAIL "A"
 IMPACT ATTENUATOR, TEMPORARY
 (SEE NOTE 5)

5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS OUTSIDE THE CLEAR ZONE OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
7. THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - a. FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - b. THE WORK ACTIVITY REQUIRES FREQUENT ENCROACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 30 m (100') TO 60 m (200') IN ADVANCE OF THE WORKERS.

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03

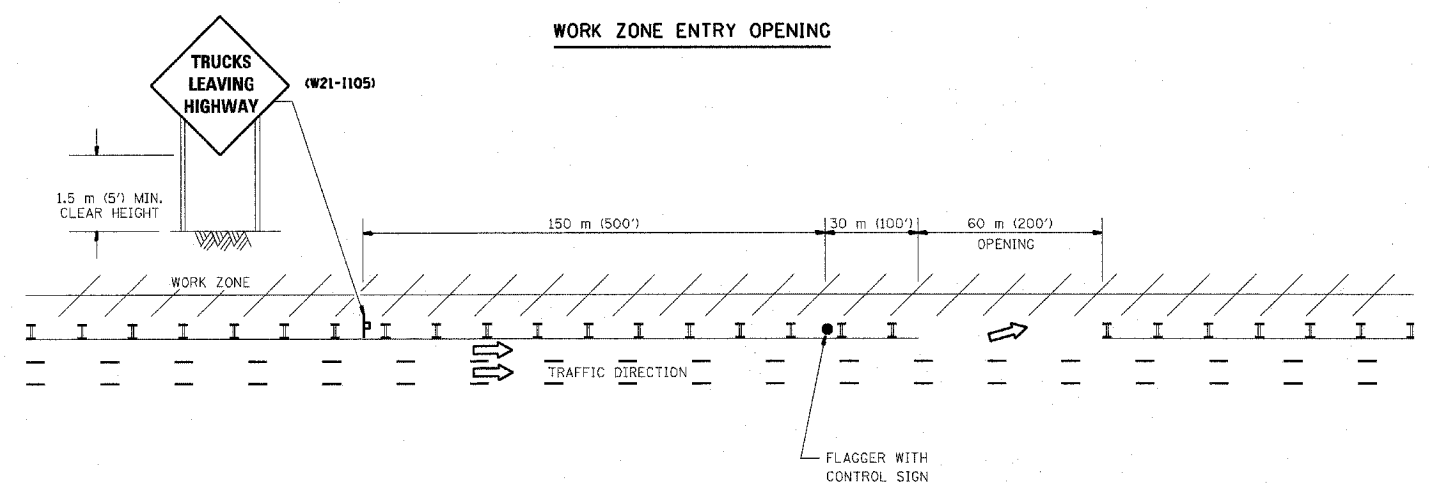
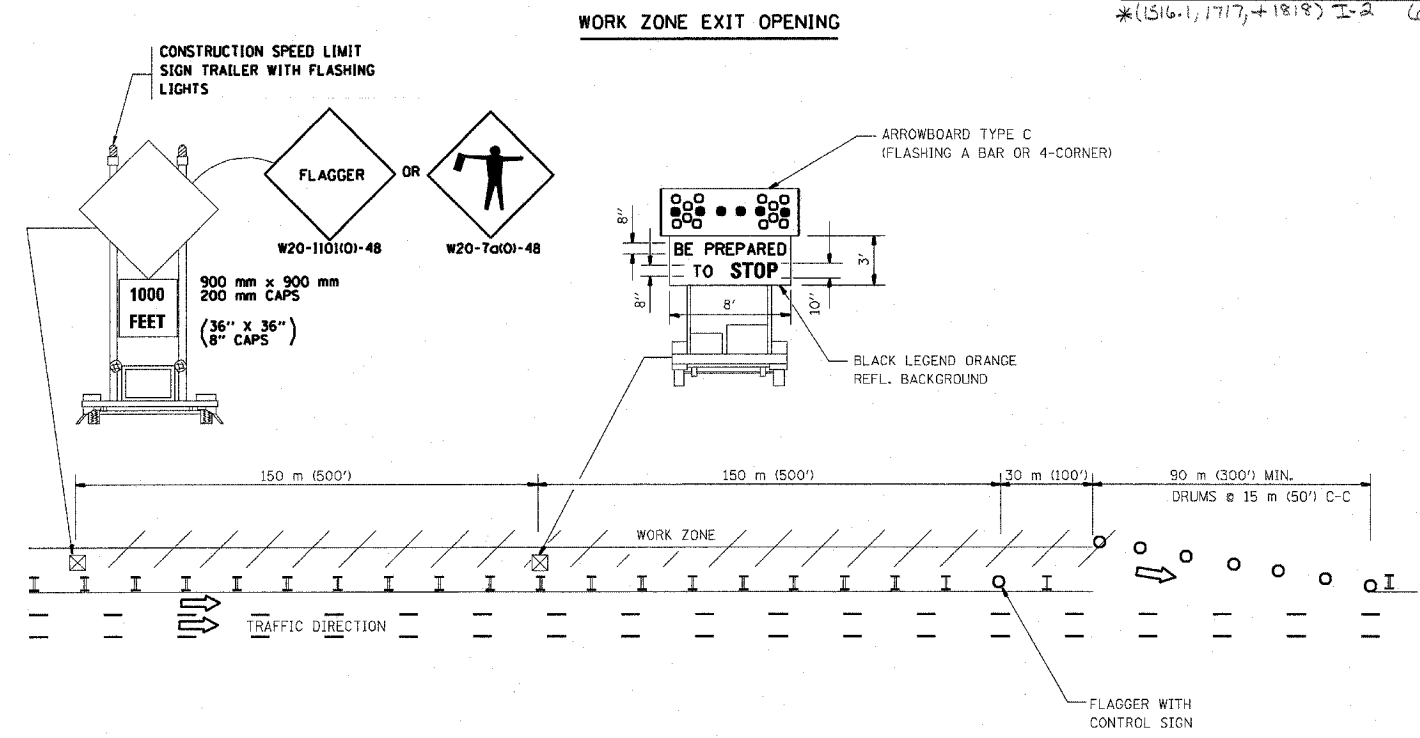
ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 ILLINOIS DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES

SCALE: NONE
 DATE: 05/06/2003
 DRAWN BY: DESIGNED BY: DWS
 CHECKED BY: TC-17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94	#	COOK	36	35
STA. 1200+00.00 TO STA. 1320+00.00				
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
*(1516, 1717, 1818) I-2 62931				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



NOTES:

1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
2. Work Zone Exit Openings should be a minimum of one half mile apart.
3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN

ILLINOIS DEPARTMENT OF TRANSPORTATION

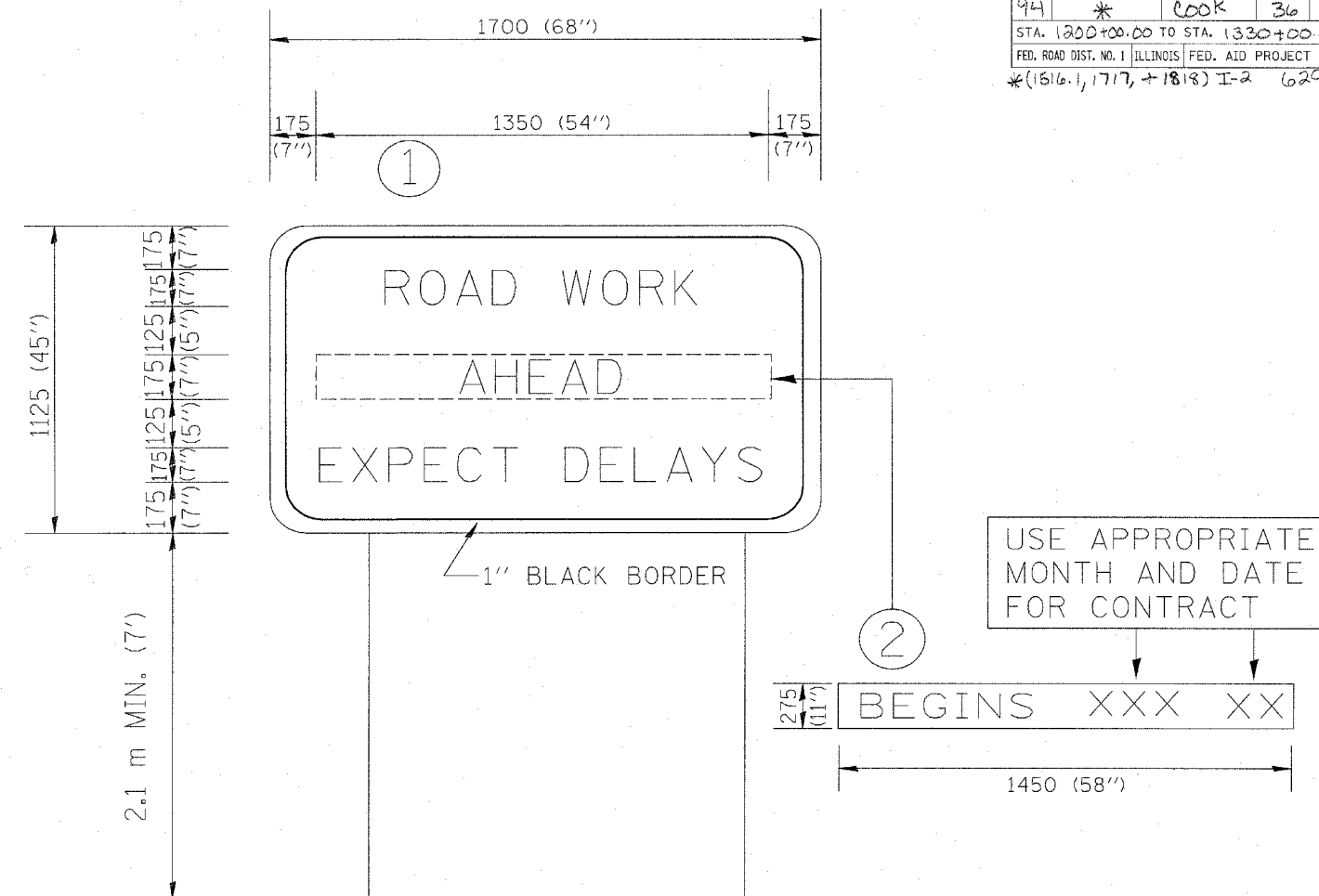
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03

SCALE: NONE DRAWN BY CADD

DATE 05/06/2003 CHECKED BY

TC-18



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 2.3 SQ. M. (25.70 SQ. FT.)

ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99

ILLINOIS DEPARTMENT OF TRANSPORTATION
TEMPORARY INFORMATION SIGNING

SCALE:
DATE 10/18/2002

DRAWN BY: BUR. OF DESIGN
CHECKED BY