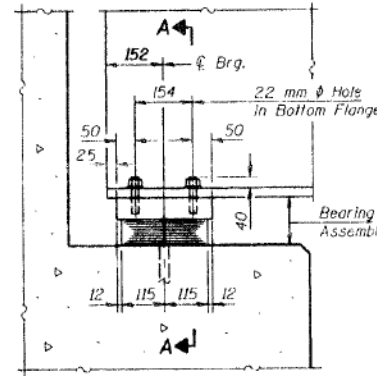


FOR INFORMATION ONLY

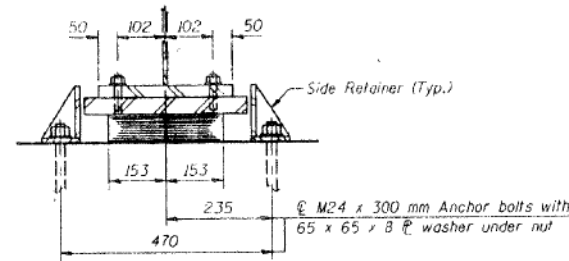
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLATE NO.	SECTION	DATE	TOTAL SHEETS	SHEET NO.	SHEET NO. SV - 32
1423	01012-1B-R	COOK	192	155	SHEETS SV - 48
PREPARED BY:		DESIGNED BY:	PROJECT:		



ELEVATION

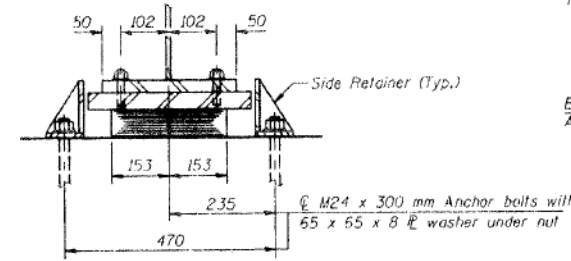
TYPE I ELASTOMERIC EXP. BRG. AT BENT A



SECTION A-A

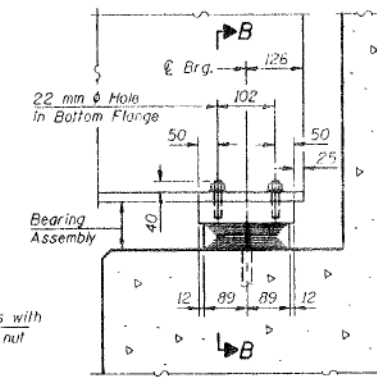
NOTES:

1. See Sheets SV-33 and SV-35 for Anchor Bolt Installation.
2. All dimensions are in millimeters (mm) except as noted.



SECTION B-B

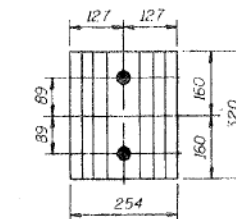
TYPE I ELASTOMERIC EXP. BRG. AT BENT K



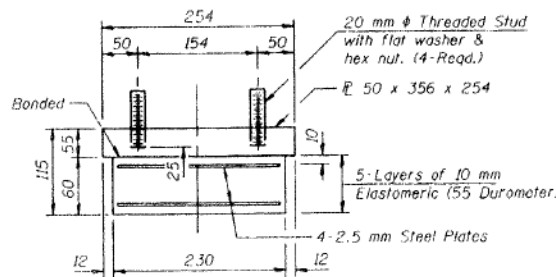
ELEVATION

BILL OF MATERIAL

Item	Unit	Total
Elastomeric Bearing Assembly Type I 230 x 306	Each	9
Elastomeric Bearing Assembly Type I 178 x 306	Each	9

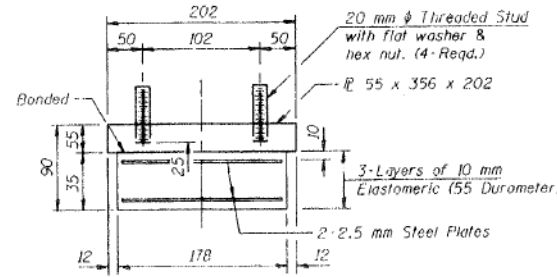


VIEW E-E



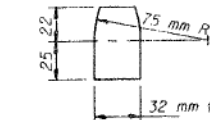
BEARING ASSEMBLY - BENT A

Note: Shim plates shall not be placed under Bearing Assembly.

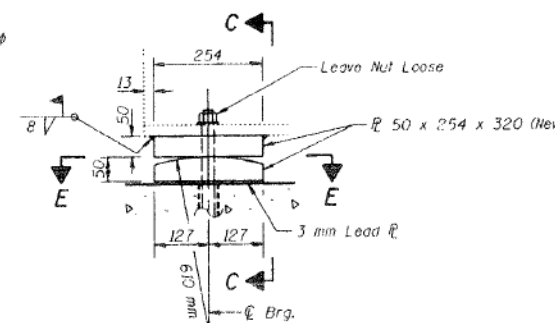


BEARING ASSEMBLY - BENT K

Note: Shim plates shall not be placed under Bearing Assembly.



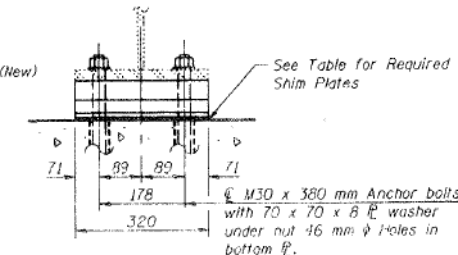
PINTLE



ELEVATION

FIXED BEARING

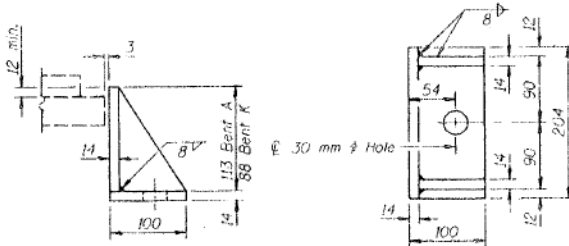
(At E. Brg. Bent B & W. Brg. Bent J)



SECTION C-C

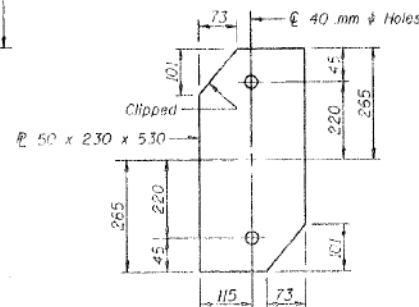
REQUIRED SHIM PLATE (mm)

	Beam 3	Beam 5	Beam 8
Bent B (East)	-	18	-
Bent B (West)	-	18	-
Bent J (East)	18	-	18
Bent J (West)	18	-	18



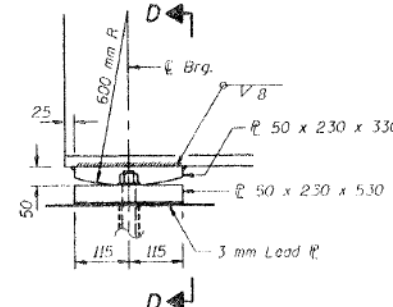
SIDE RETAINER

Equivalent rolled angle with stiffeners will be allowed in lieu of welded plates. Weight included with Structural Steel.



BOTTOM BRG. PLATES

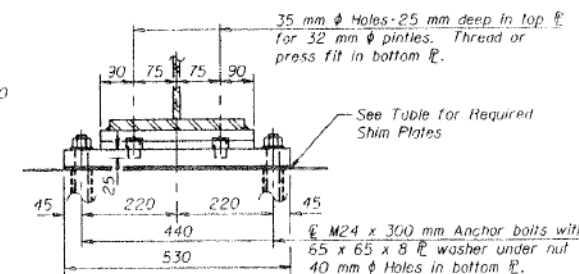
(For West Bearing Bent B Only)



ELEVATION

FIXED BEARING

(At W. Brg. Bent B & E. Brg. Bent J)



SECTION D-D

BEARING DETAILS
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 01012-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

LIN ENGINEERING, LTD.

DESIGNED	TK
CHECKED	PL
DRAWN	NC
CHECKED	PL

USER NAME	= mkwilson	DESIGNED	WJC	REVISED	
		CHECKED	DL	REVISED	
PLOT SCALE	= 0x2.0000 "1" / in.	DRAWN	RVV	REVISED	
PLOT DATE	= 12/15/2016	CHECKED	WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

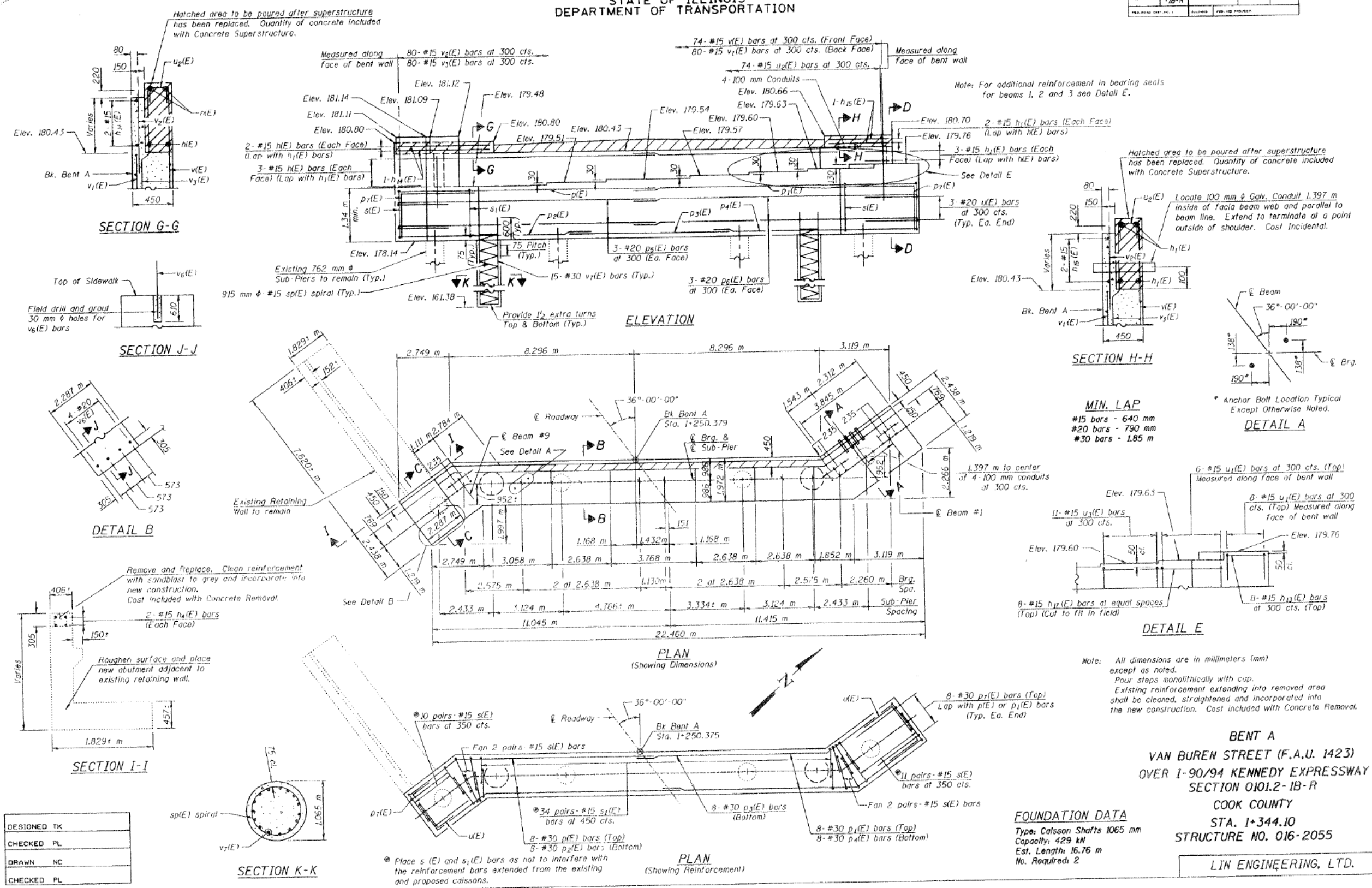
SHEET NO. AB-33 OF AB-68 SHEETS

F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	301
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	DATE	SHEET NO.
1423	0101.2-IB-R	COOK	192	156
SHEET NO. SV - 33				SHEETS SV - 48



DESIGNED	TK
CHECKED	PL
DRAWN	NC
CHECKED	PL

BENT A
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-IB-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055
LIN ENGINEERING, LTD.

3:05:58 PM 01/06/2019 5:51:45 AM - BUILT-34



USER NAME =	mkwilson	DESIGNED	WJC	REVISED	
		CHECKED	DL	REVISED	
PLOT SCALE =	0x2.0000 "1" / in.	DRAWN	RVV	REVISED	
PLOT DATE =	12/15/2016	CHECKED	WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707
SHEET NO. AB-34 OF AB-68 SHEETS

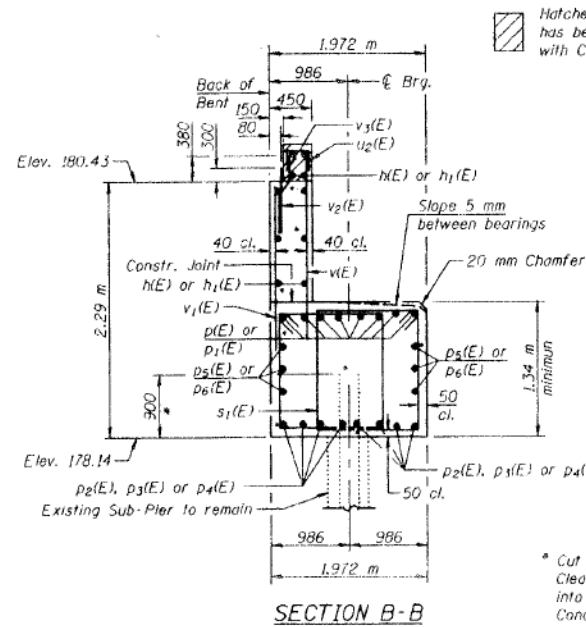
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	302
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

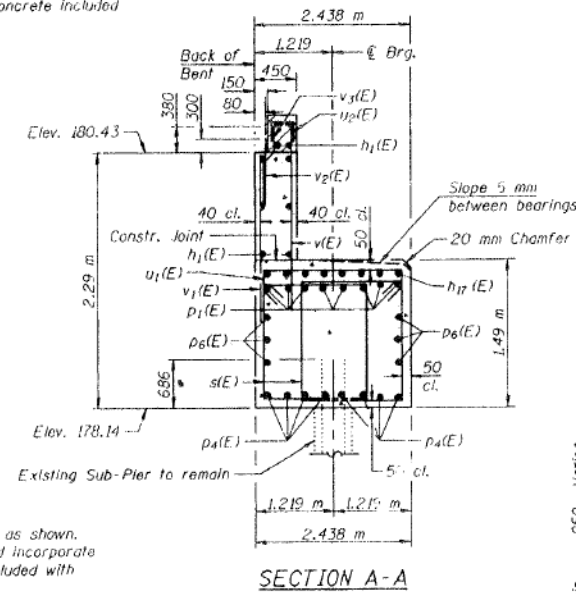
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	157
SHEET NO. SV - 34 SHEETS SV - 48				

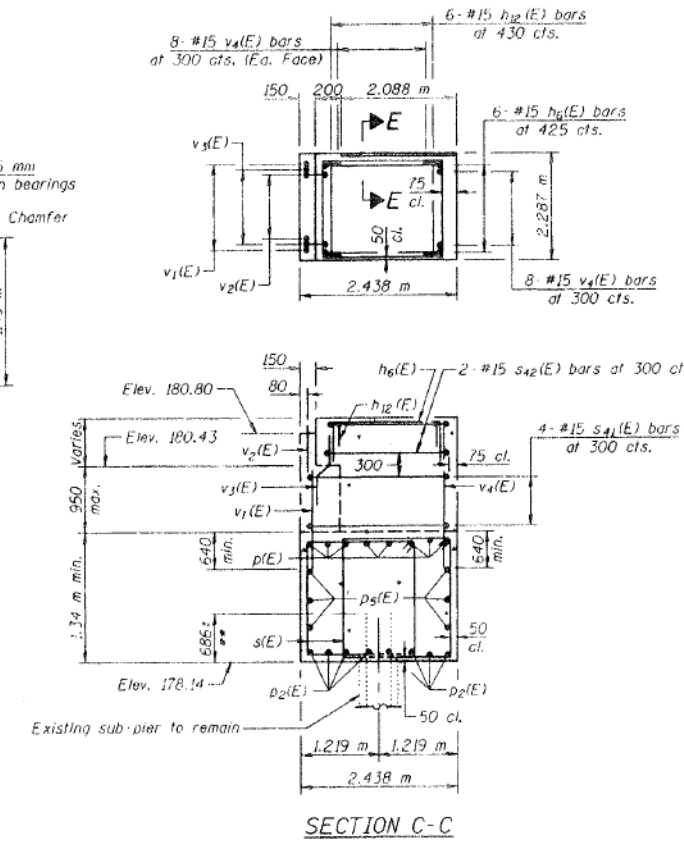
06 APR 1999 09:42:44



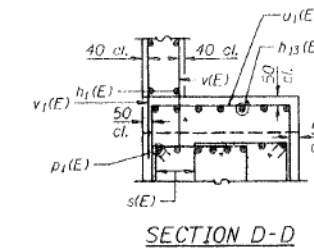
SECTION B-B



SECTION A-A



SECTION C-C



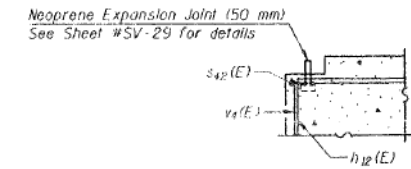
SECTION D-D

Hatched area to be poured after superstructure has been replaced. Quantity of concrete included with Concrete Superstructure.

* Cut existing reinforcement bars as shown. Clean with sandblast to grey and incorporate into new construction. Cost included with Concrete Removal.

** Clean with sandblast to grey and incorporate into new construction. Cost included with Concrete Removal.

Notes:
Cut existing interior and north sub piers at Elev. 178.14. Cost included with Concrete Removal.



Place s42(E) in back of anchor bolt as shown. Anchor bolts should be tied to s42(E) bar.

SECTION E-E

BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
h1(E)	10	#15	11.97	
h4(E)	4	#15	12.42	
h6(E)	6	#15	7.52	
h12(E)	6	#15	2.91	
h13(E)	6	#15	2.96	
h14(E)	2	#15	2.21	
h16(E)	2	#15	6.79	
h17(E)	2	#15	3.75	
h18(E)	8	#15	5.93	
p1(E)	8	#30	12.58	
p1(E)	8	#30	13.03	
p2(E)	8	#30	8.52	
p3(E)	8	#30	9.95	
p4(E)	8	#30	8.97	
p5(E)	6	#20	12.05	
p6(E)	6	#20	12.50	
p7(E)	16	#30	4.50	
s1(E)	50	#15	6.06	
s1(E)	68	#15	5.50	
s41(E)	4	#15	9.24	
s42(E)	2	#15	8.94	
sp(E)	2	#15	16.83	○
v1(E)	6	#20	8.20	
v1(E)	14	#15	3.72	
v2(E)	74	#15	0.98	
v3(E)	11	#15	2.93	
v1(E)	74	#15	2.05	
v1(E)	80	#15	1.62	
v2(E)	80	#15	1.30	
v3(E)	80	#15	0.84	
v4(E)	24	#15	2.52	
v6(E)	4	#20	1.22	
v7(E)	30	#30	17.31	
Structure Excavation	m ³		160.6	
Concrete Structures	m ³		88.1	
Reinforcement Bars, Epoxy Coated	kg		10,900	
Colson Shafts 1.065 mm	m ³		30	

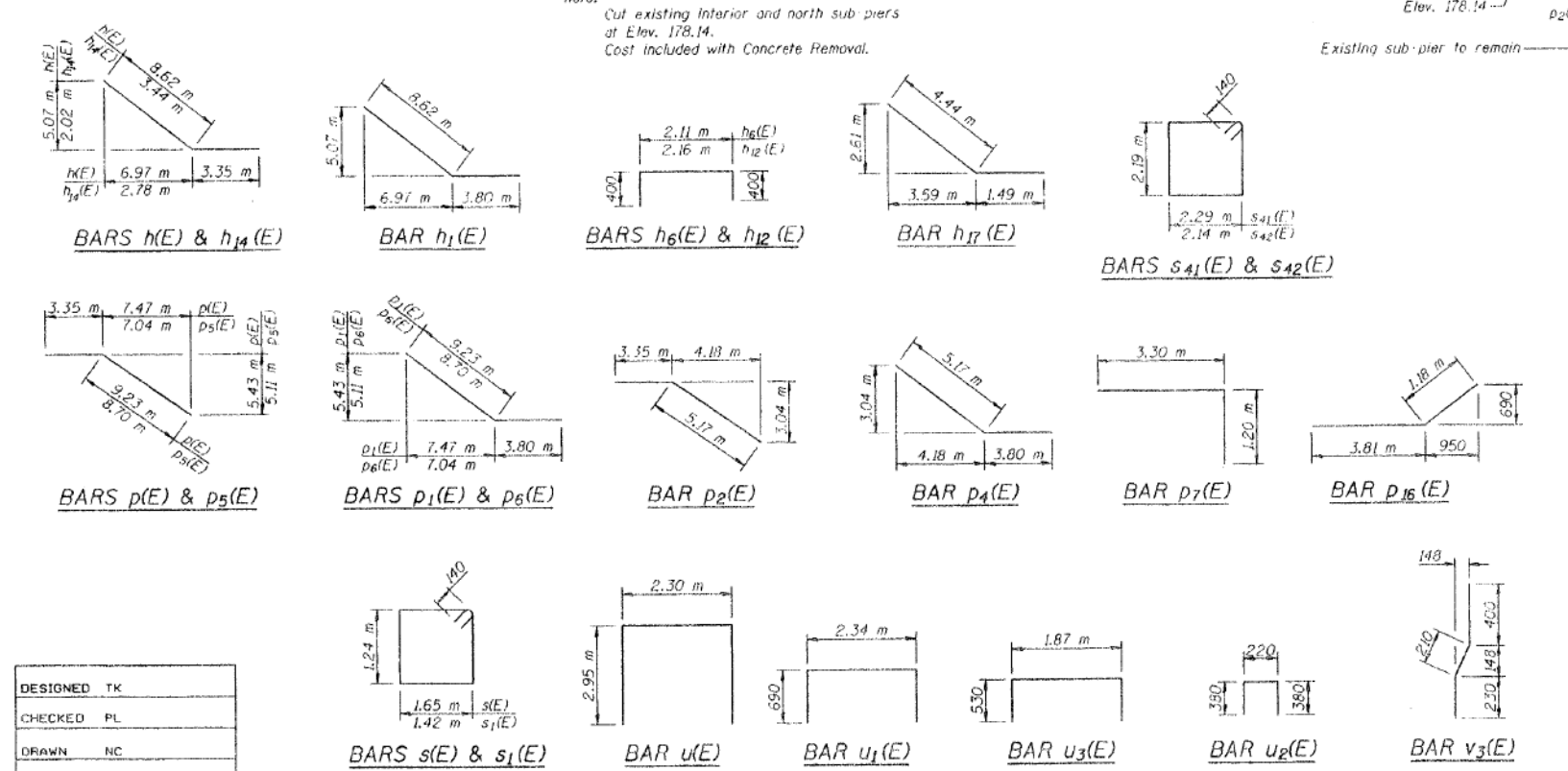
All dimensions are in millimeters (mm) except as noted.

*** Length is height of spiral

BENT A DETAILS

VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

LIN ENGINEERING, LTD.



DESIGNED	TK
CHECKED	PL
DRAWN	NC
CHECKED	PL

3:06:03 PM
D:\60X99-SHT-AS-BUILT-35



USER NAME = mkwilson	DESIGNED WJC	REVISED
	CHECKED DL	REVISED
PLOT SCALE = 0x2.0000 '1' / in.	DRAWN RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-35 OF AB-68 SHEETS

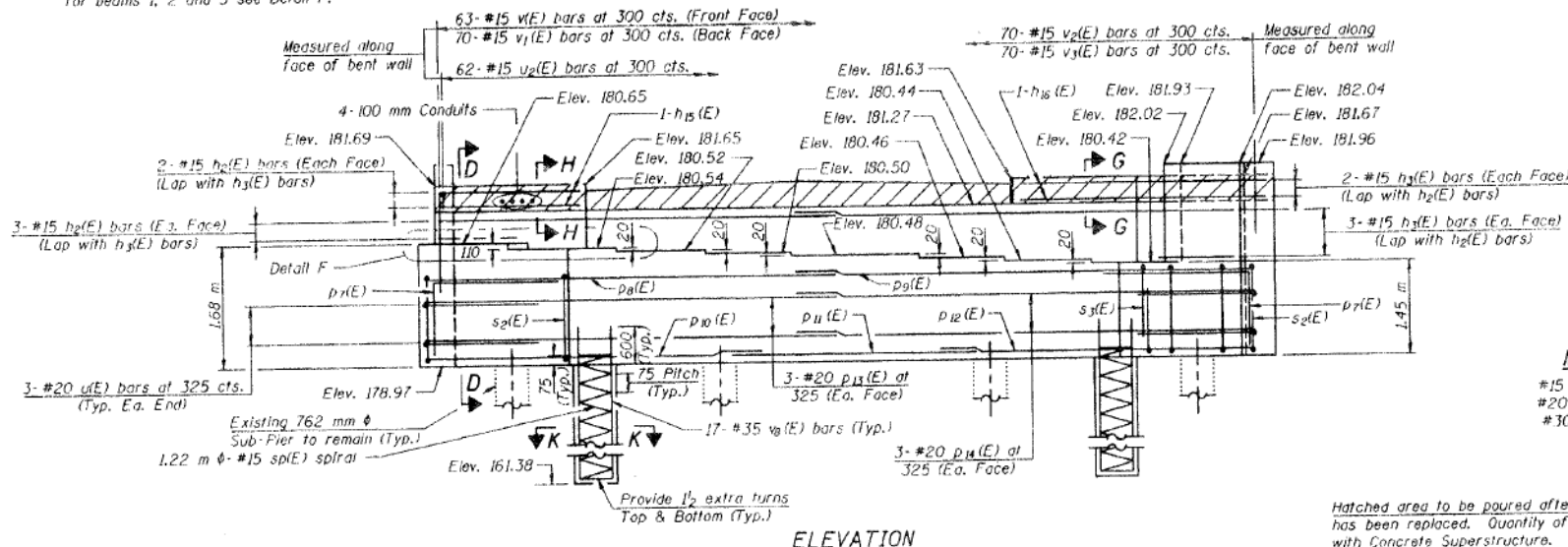
F.A.U. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	303
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

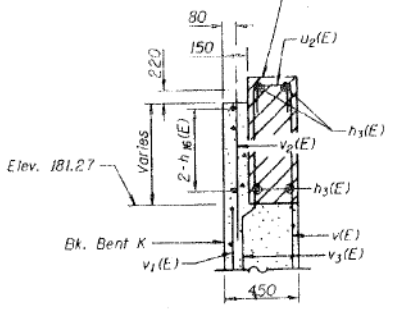
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. SV - 35
1423	0112-1B-R	COOK	192	158	SHEETS SV - 48
DESIGNED BY	CHECKED BY	DRAWN BY	DATE		
WJC	DL	RVV	12/15/2016		

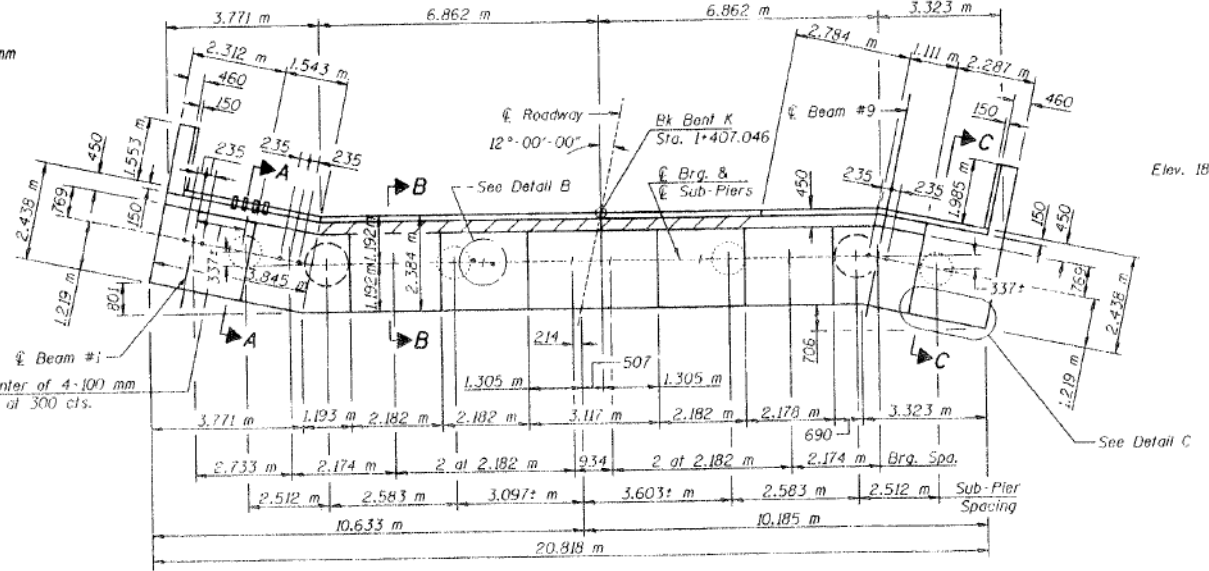
Note: For additional reinforcement in bearing seats for beams 1, 2 and 3 see Detail F.



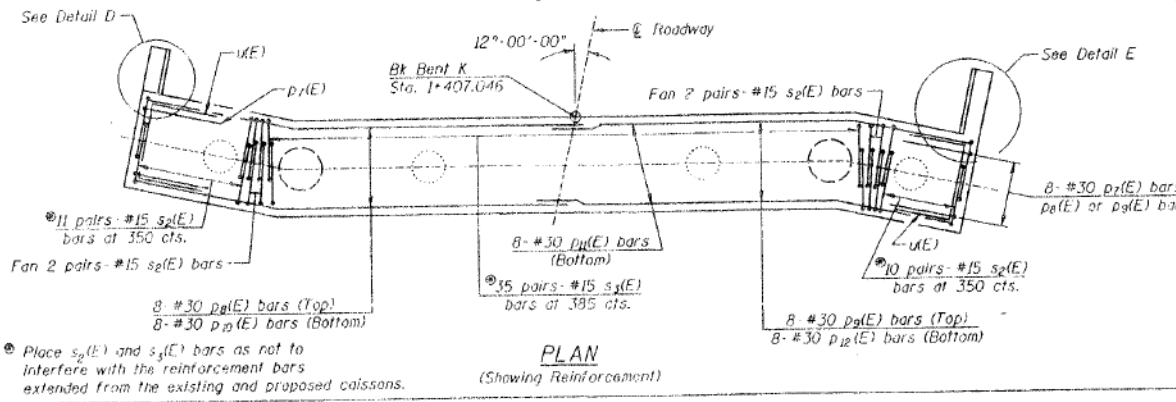
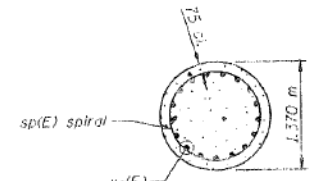
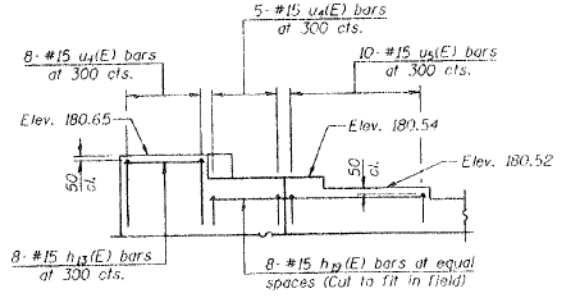
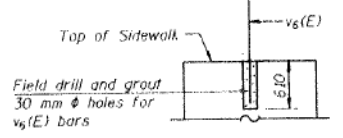
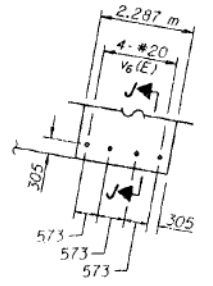
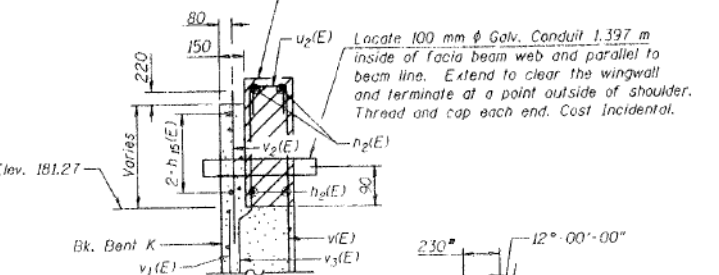
Hatched area to be poured after superstructure has been replaced. Quantity of concrete included with Concrete Superstructure.



FOUNDATION DATA
Type: Caisson Shafts 1370 mm
Capacity: 710 kN
Est. Length: 17.59 m
No. Required: 2



Hatched area to be poured after superstructure has been replaced. Quantity of concrete included with Concrete Superstructure.



- Note:
- All dimensions are in millimeters (mm), except as noted.
 - Pour steps monolithically with cap.
 - Existing reinforcement extending into removal area shall be cleaned, straightened and incorporated into the new construction. Cost included with Concrete Removal.

BENT K
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 01012-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

LIN ENGINEERING, LTD.

DESIGNED	TK
CHECKED	PL
DRAWN	NC
CHECKED	PL

3:06:10 PM D:\60X99-SHT-AS-BUILT-36



USER NAME = mkwilson	DESIGNED WJC	REVISED
DESIGNED WJC	CHECKED DL	REVISED
PLOT SCALE = 0x2.0000 "/>		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-36 OF AB-68 SHEETS

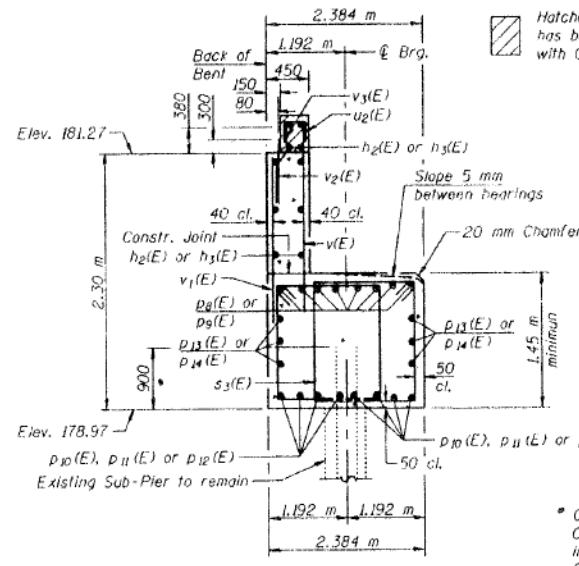
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	304
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

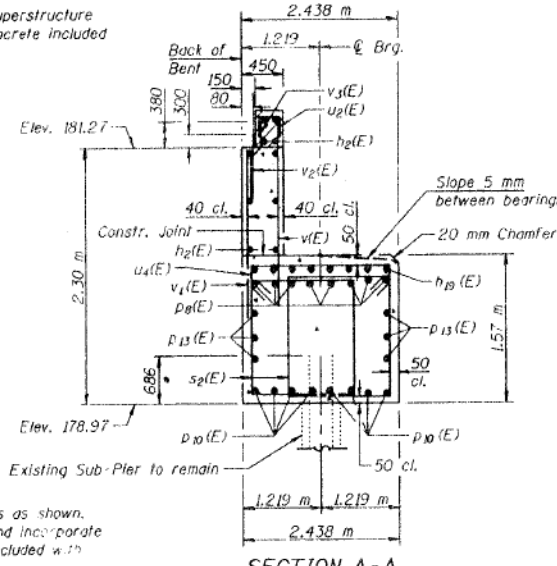
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	159
SHEET NO. SV - 36				SHEETS SV - 48

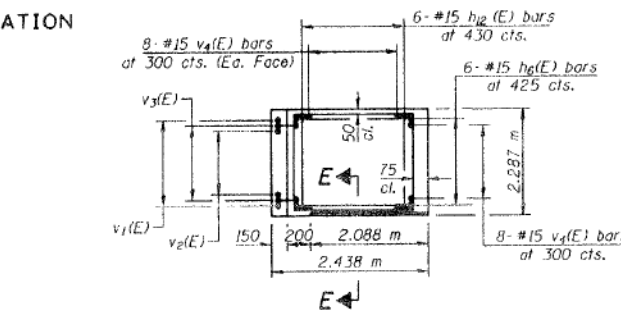
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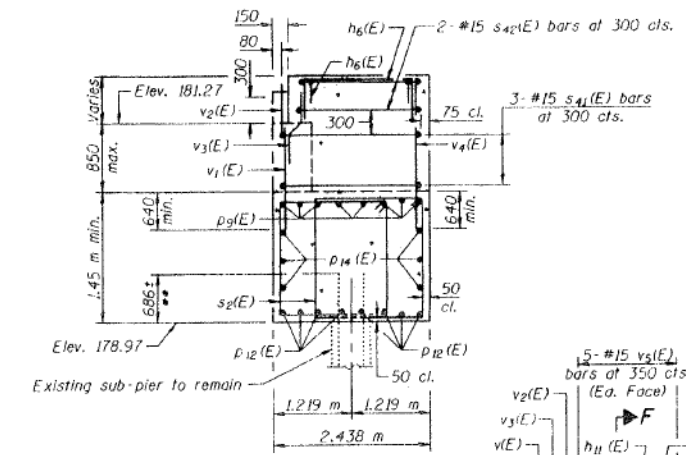
SECTION B-B



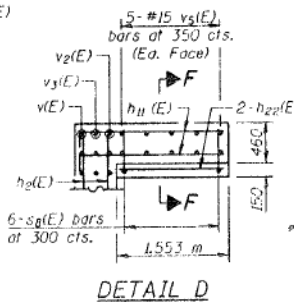
SECTION A-A



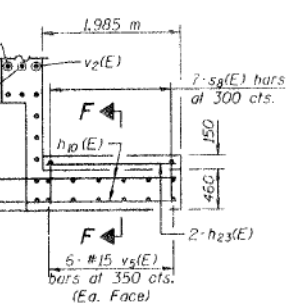
SECTION C-C



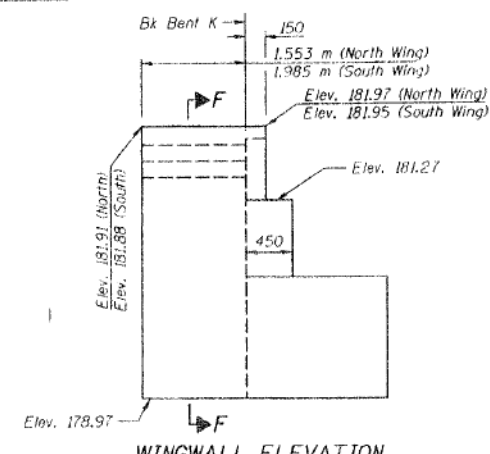
SECTION D-D



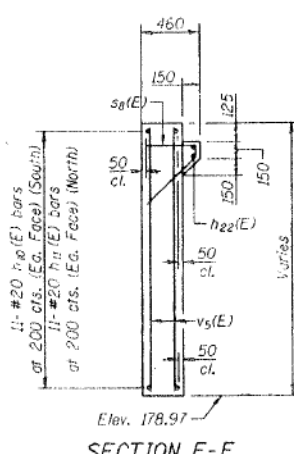
DETAIL D



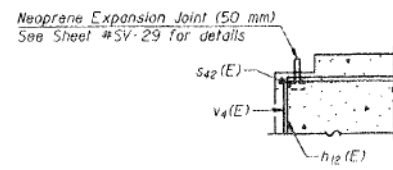
DETAIL E



WINGWALL ELEVATION



SECTION F-F



Place $s_{42}(E)$ in back of anchor bolt as shown. Anchor bolts should be tied to $s_{42}(E)$ bar.

SECTION E-E

BILL OF MATERIAL

Bar No.	Size	Length (m)	Shape
$h_{21}(E)$	#10	11.00	
$h_{22}(E)$	#10	10.55	
$h_{23}(E)$	#6	2.91	
$h_{24}(E)$	#20	2.73	
$h_{25}(E)$	#20	2.00	
$h_{26}(E)$	#6	2.96	
$h_{27}(E)$	#8	2.21	
$h_{28}(E)$	#2	3.75	
$h_{29}(E)$	#2	6.20	
$h_{30}(E)$	#8	4.83	
$h_{31}(E)$	#2	1.46	
$h_{32}(E)$	#2	1.89	
$p_{11}(E)$	#16	4.50	
$p_{12}(E)$	#8	11.59	
$p_{13}(E)$	#8	11.14	
$p_{14}(E)$	#8	8.24	
$p_{15}(E)$	#8	8.55	
$p_{16}(E)$	#8	7.79	
$p_{17}(E)$	#6	11.06	
$p_{18}(E)$	#6	10.61	
$s_{21}(E)$	#50	6.28	
$s_{22}(E)$	#70	6.22	
$s_{23}(E)$	#13	1.15	
$s_{24}(E)$	#3	9.24	
$s_{25}(E)$	#2	8.94	
$s_{26}(E)$	#2	17.66	
$u_{11}(E)$	#6	8.20	
$u_{12}(E)$	#62	0.98	
$u_{13}(E)$	#13	4.22	
$u_{14}(E)$	#10	3.92	
$v_{11}(E)$	#63	2.05	
$v_{12}(E)$	#70	1.62	
$v_{13}(E)$	#70	1.30	
$v_{14}(E)$	#70	0.84	
$v_{15}(E)$	#24	2.32	
$v_{16}(E)$	#22	2.81	
$v_{17}(E)$	#4	1.22	
$v_{18}(E)$	#34	18.14	
Structure Excavation	m ³	167.6	
Concrete Structures	m ³	96.6	
Reinforcement Bars	kg	13,640	
Epoxy Coated			
Caisson Shafts 1370 mm	m ³	50	

All dimensions are in millimeters (mm) except as noted.
*** Length is height of spiral

BENT K DETAILS
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

LIN ENGINEERING, LTD.

DESIGNED	TX
CHECKED	PL
DRAWN	NC
CHECKED	PL

DESIGNED	WJC
CHECKED	DL
DRAWN	RVV
CHECKED	WJC

REVISED	
REVISED	
REVISED	
REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-37 OF AB-68 SHEETS

F.A.U. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	305
CONTRACT NO. 60X99				

ILLINOIS FED. AID PROJECT



3/06/17 PM 0160X99-SHT-AS-BUILT-37

FOR INFORMATION ONLY

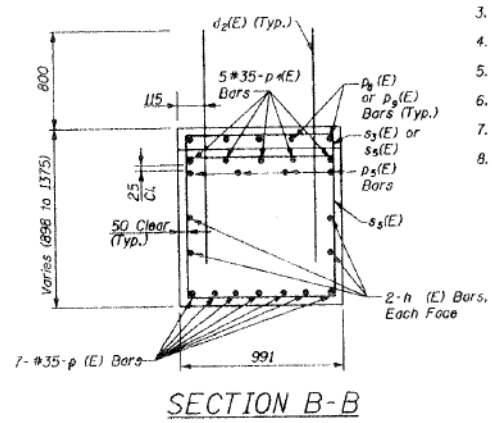
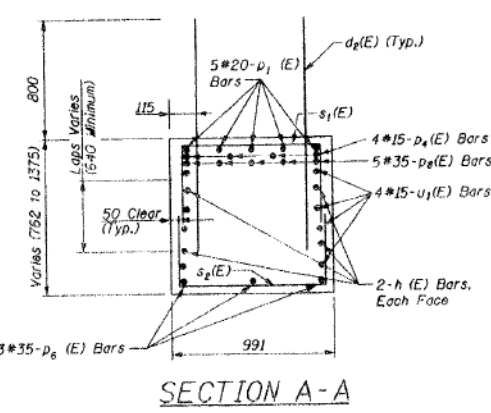
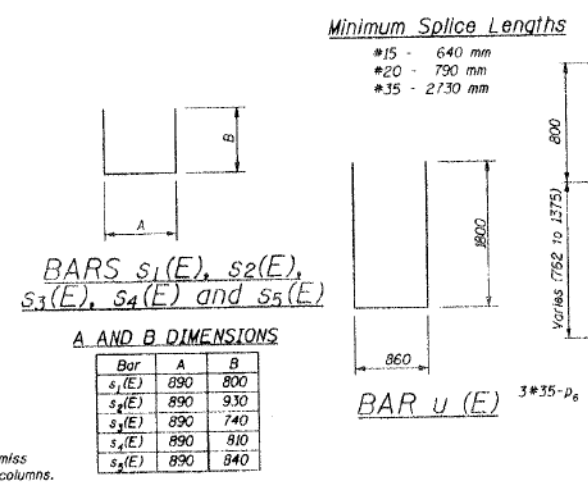
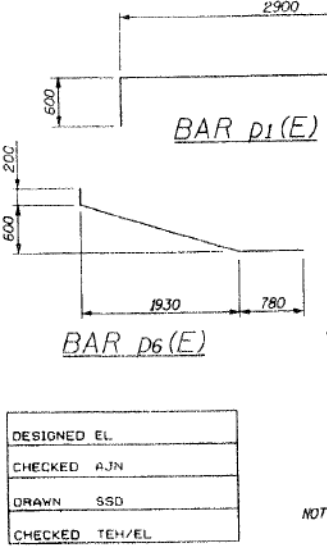
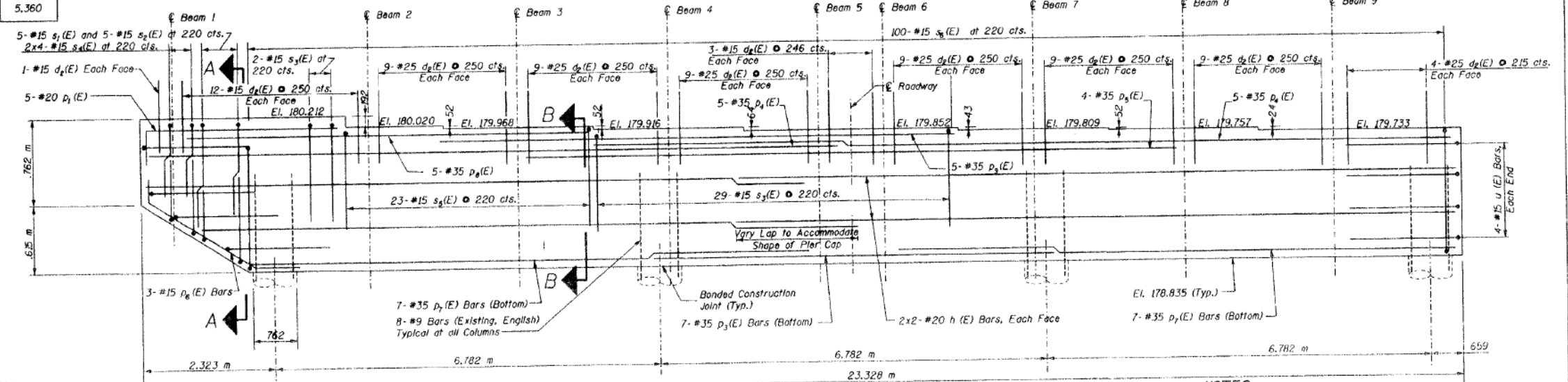
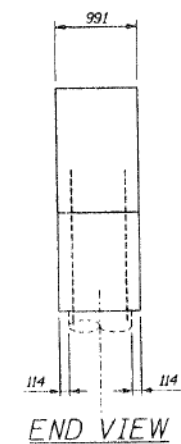
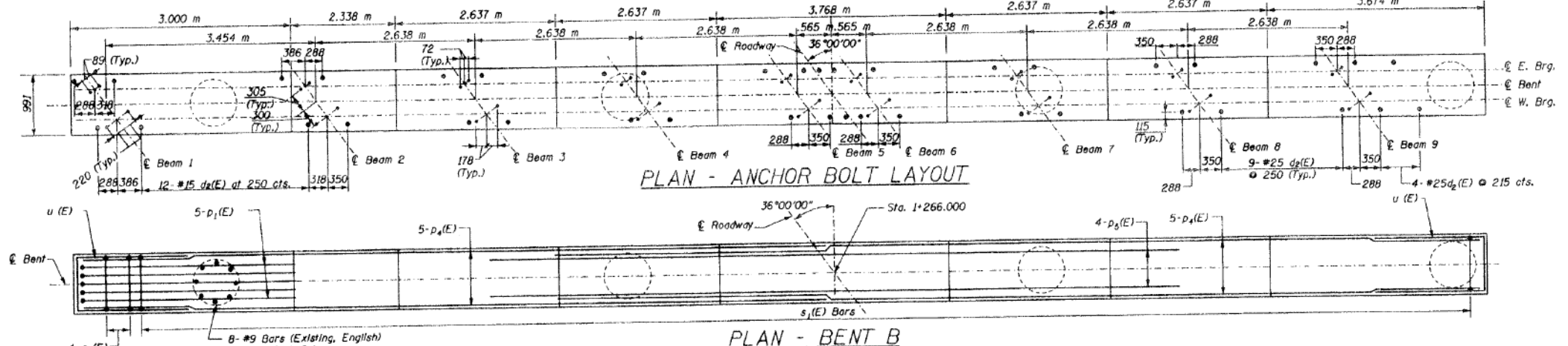
BENT B BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$d_2(E)$	148	#25	1.280	
$h(E)$	8	#20	12.620	
$D_1(E)$	5	#20	3.500	
$D_2(E)$	7	#35	6.800	
$p_1(E)$	10	#35	12.245	
$D_3(E)$	4	#35	11.300	
$D_4(E)$	3	#15	3.000	
$D_5(E)$	14	#35	10.120	
$D_6(E)$	5	#35	7.100	
$D_7(E)$	5	#35	9.140	
$s_1(E)$	5	#15	2.490	
$s_2(E)$	5	#15	2.750	
$s_3(E)$	31	#15	2.370	
$s_4(E)$	8	#15	2.498	
$s_5(E)$	23	#15	2.570	
$s_6(E)$	100	#15	3.480	
$u(E)$	8	#15	4.460	
Concrete Structures	m ³		24.2	
Reinforced Bars, Epoxy Coated	kg		5,360	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-18-R	COOK	192	160

SHEET NO. SV - 37
SHEETS SV-48



- NOTES:
- Space reinforcement in cap to miss anchor bolts.
 - All edges shall have Standard 20 mm chamfers except as noted.
 - Pour steps monolithically with cap.
 - All dimensions are in millimeters (mm) except as noted.
 - Remove concrete in columns to meet Elevation 178.835.
 - Reinforcement bars designated (E) shall be epoxy coated.
 - Work with Sheet SV-23.
 - Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cost included with "Concrete Removal".

BENT B CAP REPLACEMENT
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-18-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:06:22 PM D:\60X99-SHT-AS-BUILT-38



USER NAME	DESIGNED	REVISIONS
mkwilson	WJC	1
	DL	2
	RVV	3
	WJC	4

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-38 OF AB-68 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	306

CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

BENT D BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$h_{II}(E)$	8	#20	10.220	
$p_{II}(E)$	5	#20	3.350	
$p_{II}(E)$	12	#35	8.720	
$p_{II}(E)$	8	#35	10.005	
$p_{II}(E)$	4	#35	8.400	
$p_{II}(E)$	3	#15	2.500	
$p_{II}(E)$	6	#35	5.600	
$s_{II}(E)$	5	#15	2.490	
$s_{II}(E)$	78	#15	4.000	
$s_{II}(E)$	5	#15	2.210	
$s_{II}(E)$	4	#15	2.090	
$s_{II}(E)$	7	#15	2.290	
$u_{II}(E)$	8	#15	4.380	

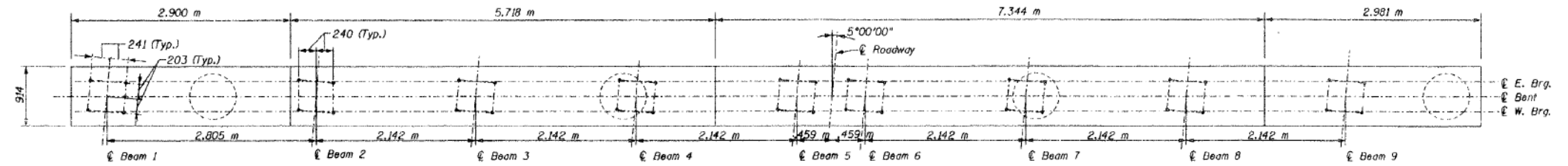
Concrete Structures	m ³	15.6
Reinforced Bars, Epoxy Coated	kg	2,840

Reinforcement bars designated (E) shall be epoxy coated.

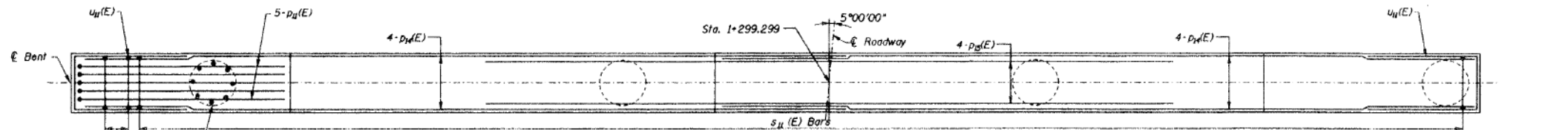
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLAN SHEET NO.	SECTION	COUNTY	YEAR	SHEET NO.
1423	0101.2-1B-R	COOK	192	161

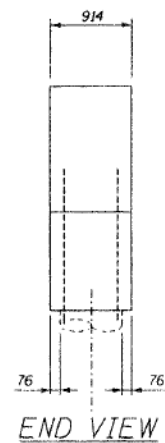
SHEET NO. SV - 39
SHEETS SV-48



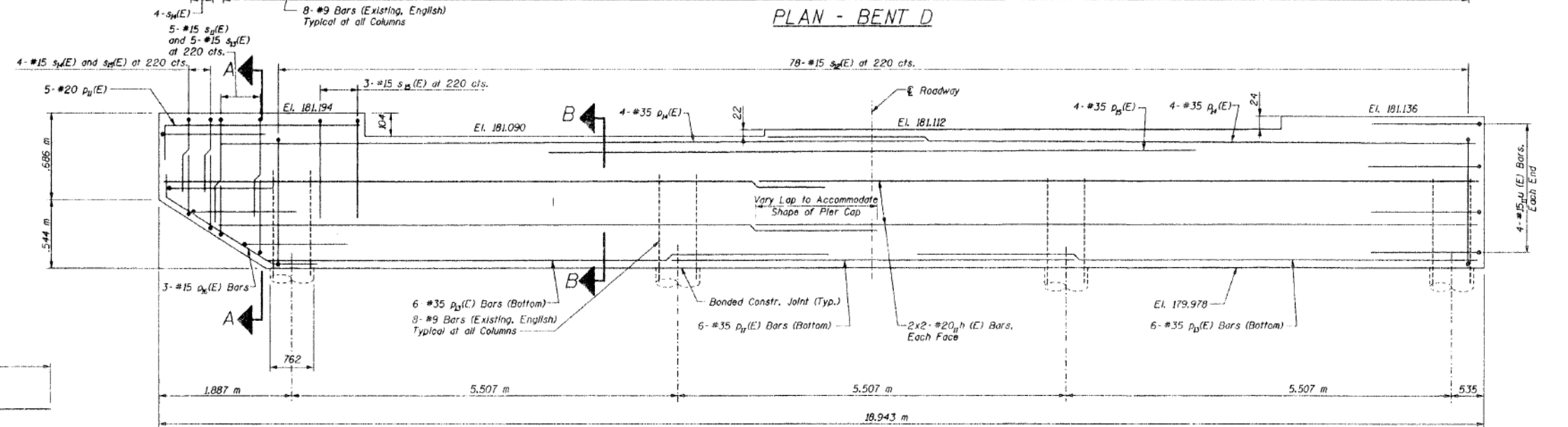
PLAN - ANCHOR BOLT LAYOUT



PLAN - BENT D

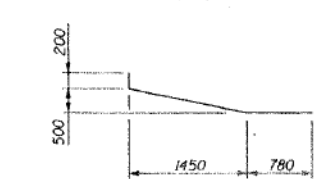


END VIEW



ELEVATION - BENT D
Looking East (N.T.S.)

BAR $p_{II}(E)$



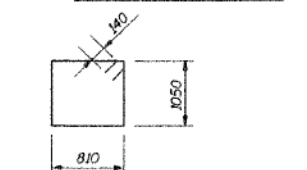
BAR $p_{II}(E)$

DESIGNED EL	
CHECKED AJN	
DRAWN SSD	
CHECKED TEH	

A AND B DIMENSIONS

Bar	A	B
$s_{II}(E)$	810	840
$s_{II}(E)$	810	700
$s_{II}(E)$	810	640
$s_{II}(E)$	810	740

BARS $s_{II}(E)$, $s_{II}(E)$, $s_{II}(E)$ and $s_{II}(E)$



BAR $s_{II}(E)$

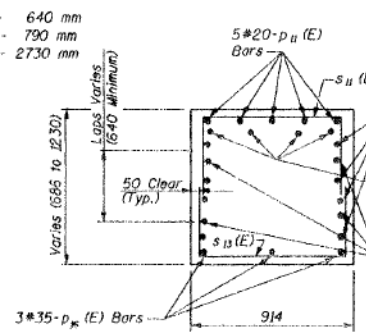
(NOTE: Space stirrups to miss existing bars at columns)

Minimum Splice Lengths

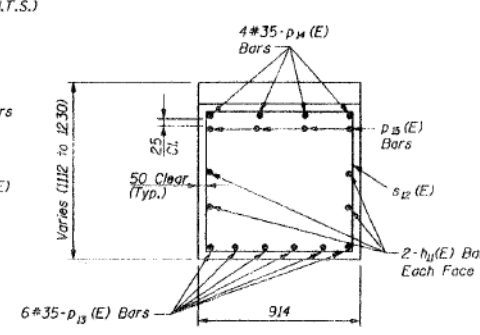
#15 -	640 mm
#20 -	790 mm
#35 -	2730 mm



BAR $u_{II}(E)$



SECTION A-A



SECTION B-B

NOTES:

1. Space reinforcement in cap to miss anchor bolts.
2. All edges shall have Standard 20 mm chamfers except as noted.
3. Pour steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Remove concrete in columns to meet elevation.
6. Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cast included with "Concrete Removal."

BENT D CAP REPLACEMENT
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

USER NAME = mkwilson	DESIGNED WJC	REVISED
	CHECKED DL	REVISED
PLOT SCALE = 0x2.0000 '1' / in.	DRAWN RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	307
CONTRACT NO. 60X99				

ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY

BENT G BILL OF MATERIAL

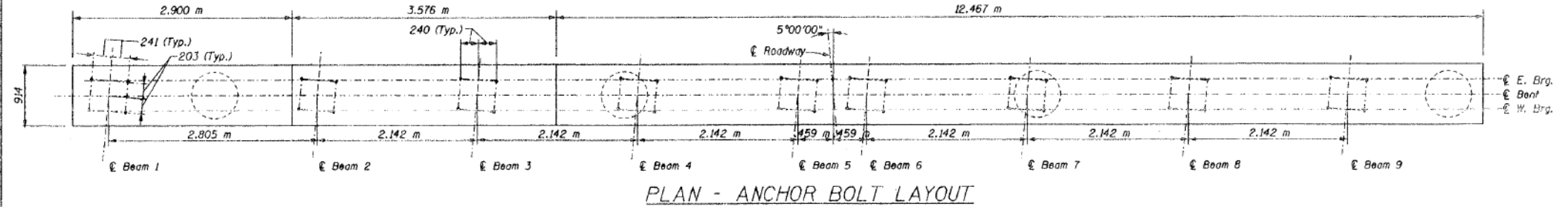
Bar	No.	Size	Length (m)	Shape
$h_{21}(E)$	8	#20	10.220	
$p_{21}(E)$	5	#20	3.350	
$p_{22}(E)$	12	#35	8.720	
$p_{23}(E)$	8	#35	10.005	
$p_{24}(E)$	4	#35	8.400	
$p_{25}(E)$	3	#15	2.514	
$p_{26}(E)$	6	#35	5.600	
$s_{21}(E)$	5	#15	2.590	
$s_{22}(E)$	78	#15	3.840	
$s_{23}(E)$	8	#15	2.210	
$s_{24}(E)$	4	#15	2.190	
$s_{25}(E)$	4	#15	2.250	
$u_{21}(E)$	8	#15	4.380	
Concrete Structures	m ³		15.8	
Reinforced Bars, Epoxy Coated	kg		2,820	

Reinforcement bars designated (E) shall be epoxy coated.

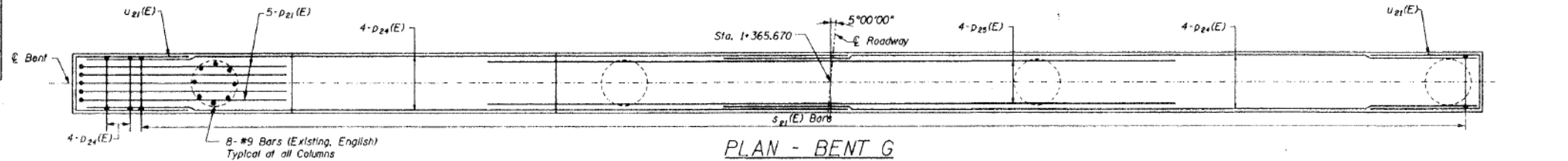
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	162

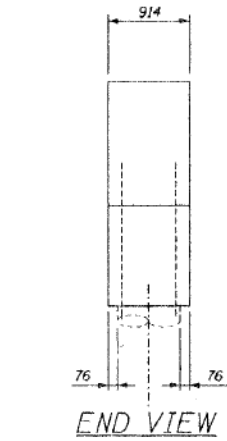
SHEET NO. SV - 39
SHEETS SV-49



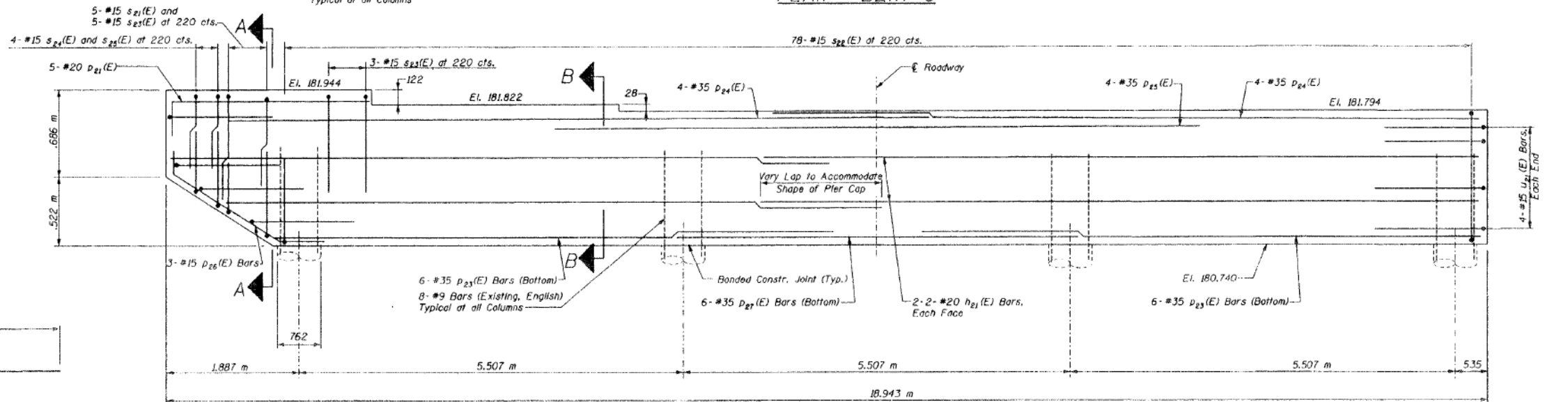
PLAN - ANCHOR BOLT LAYOUT



PLAN - BENT G

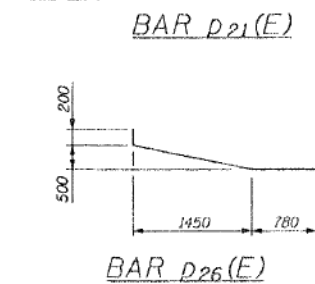


END VIEW



ELEVATION - BENT G

Looking East
(N.T.S.)



BAR $p_{21}(E)$

BAR $p_{26}(E)$

A AND B DIMENSIONS

Bar	A	B
$s_{21}(E)$	810	890
$s_{23}(E)$	810	700
$s_{24}(E)$	810	690
$s_{25}(E)$	810	720

BARS $s_{21}(E)$, $s_{23}(E)$,
 $s_{24}(E)$ and $s_{25}(E)$

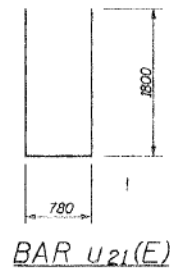


BAR $s_{22}(E)$

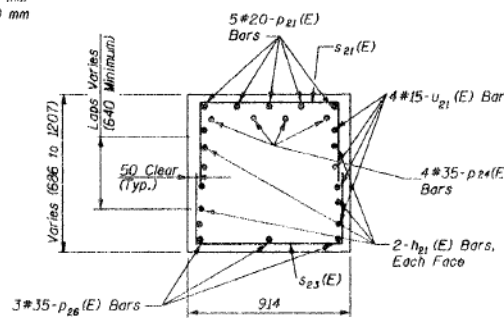
(NOTE: Space stirrups to miss existing bars at columns)

Minimum Splice Lengths

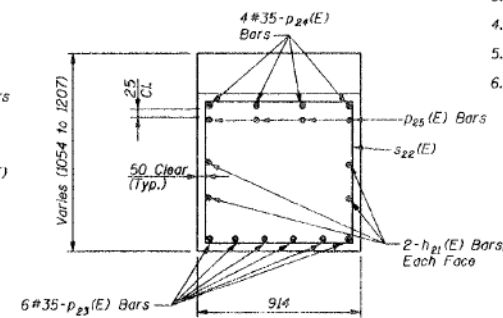
- #15 - 640 mm
- #20 - 790 mm
- #35 - 2730 mm



BAR $u_{21}(E)$



SECTION A-A



SECTION B-B

NOTES:

1. Space reinforcement in cap to miss anchor bolts.
2. All edges shall have Standard 20 mm chamfers except as noted.
3. Four steps monolithically with cap.
4. All dimensions are in millimeters (mm) except as noted.
5. Remove concrete in columns to meet elevation.
6. Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cost included with "Concrete Removal."

**BENT G CAP REPLACEMENT
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055**

EDWARDS AND KELCEY

DESIGNED	EL
CHECKED	AJN
DRAWN	SSD
CHECKED	TEH

USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0x2.0000 '1" / in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-40 OF AB-68 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	308

CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT



FOR INFORMATION ONLY

BENT J BILL OF MATERIAL

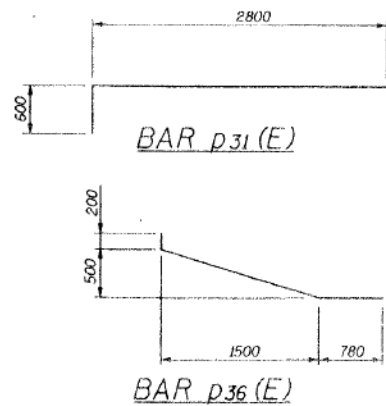
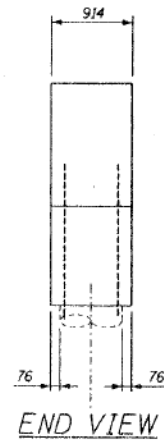
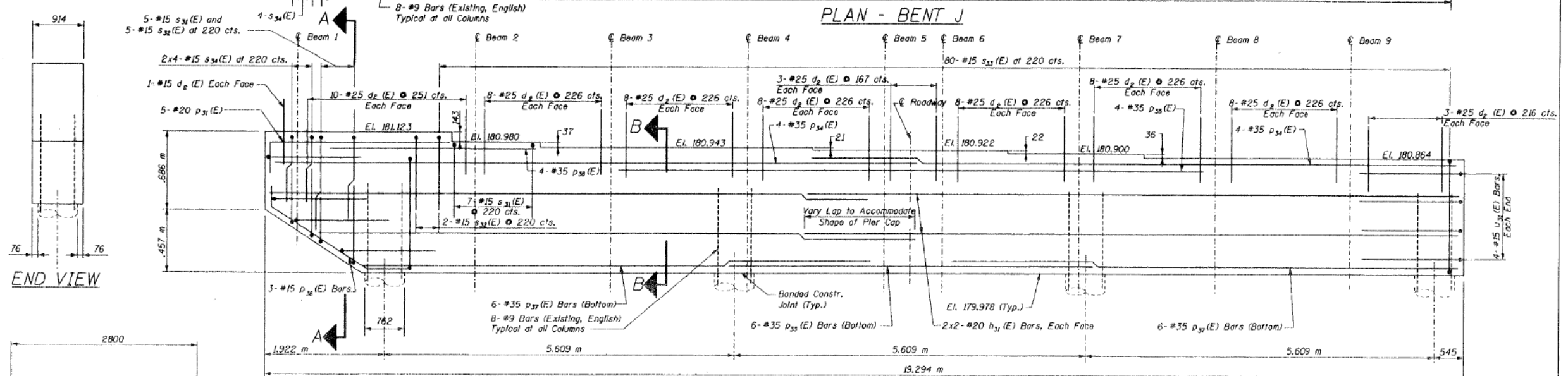
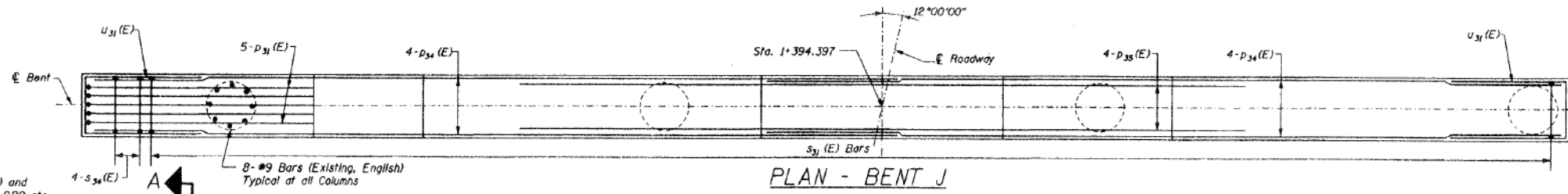
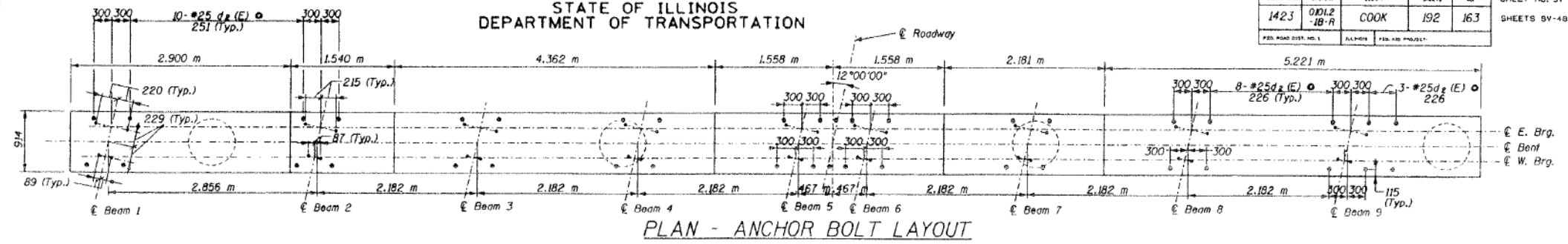
Bar	No.	Size	Length (m)	Shape
d_2 (E)	130	#25	1.280	
h_{31} (E)	8	#20	10.360	
p_{31} (E)	5	#20	3.400	
p_{32} (E)	6	#35	5.700	
p_{34} (E)	8	#35	10.235	
p_{35} (E)	4	#35	9.400	
p_{36} (E)	3	#15	2.560	
p_{37} (E)	12	#35	8.830	
p_{38} (E)	4	#35	4.270	
s_{31} (E)	12	#15	2.410	
s_{32} (E)	7	#15	2.590	
s_{33} (E)	80	#15	3.520	
s_{34} (E)	8	#15	2.110	
u_{31} (E)	8	#15	4.380	
Concrete Structures		m ³	16.8	
Reinforced Bars, Epoxy Coated		kg	3,670	

Reinforcement bars designated (E) shall be epoxy coated.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	EDITION	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	163
FED. ROAD DIST. NO. 1	ALLIANCE	FED. AID PROJECT		

SHEET NO. SV-48
SHEETS SV-48



DESIGNED EL	
CHECKED AJN	
DRAWN SSO	
CHECKED TEH/EL	

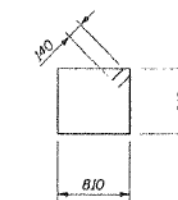
A AND B DIMENSIONS

Bar	A	B
s_{31} (E)	810	800
s_{32} (E)	810	890
s_{34} (E)	810	650

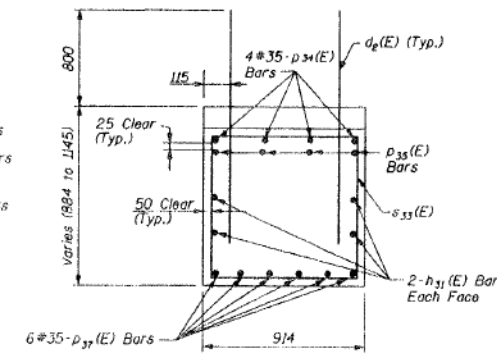
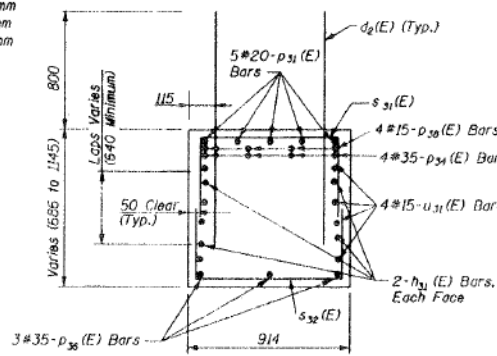
Minimum Splice Lengths

#15	640 mm
#20	790 mm
#35	2730 mm

BARS s_{31} (E), s_{32} (E) and s_{34} (E)



BAR u_{31} (E)



- NOTES:
1. Space reinforcement in cap to miss anchor bolts.
 2. All edges shall have Standard 20 mm chamfers except as noted.
 3. Four steps monolithically with cap.
 4. All dimensions are in millimeters (mm) except as noted.
 5. Work with Sheet SV-24.
 6. Existing reinforcement extending into removed area shall be cleaned, straightened and incorporated into the new construction. Cost included with "Concrete Removal."

BENT J CAP REPLACEMENT
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

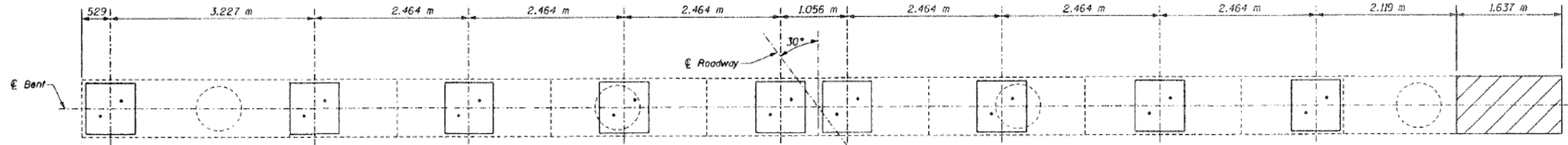
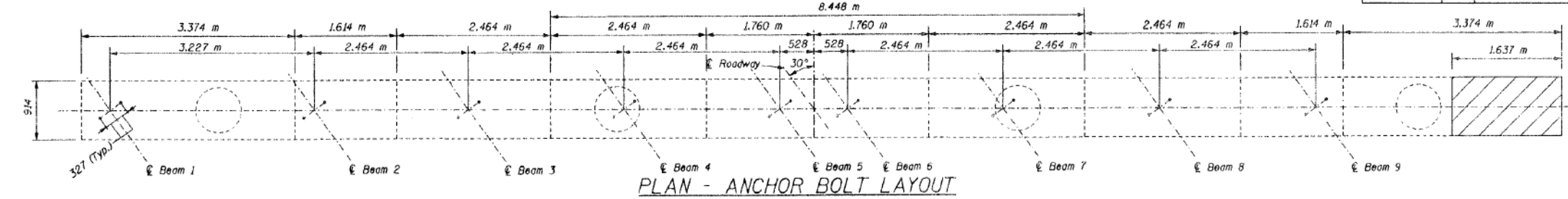
USER NAME = mkwilson	DESIGNED WJC	REVISED
	CHECKED DL	REVISED
PLOT SCALE = 0x2.0000 '1' / in.	DRAWN RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	309
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

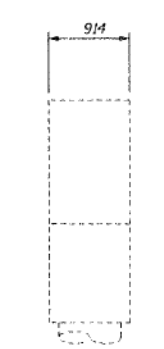
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

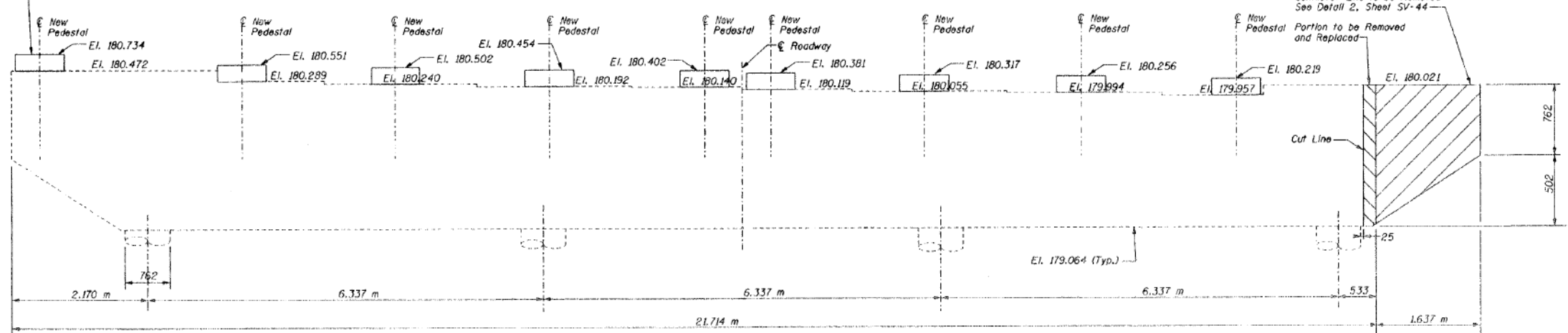
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	164
SHEET NO. SV - 41 SHEETS SV-48				



New Pedestal See Detail 1 This Sheet (Typ. @ Bents C, F & H) Shim Plate For Bent E Only



END VIEW



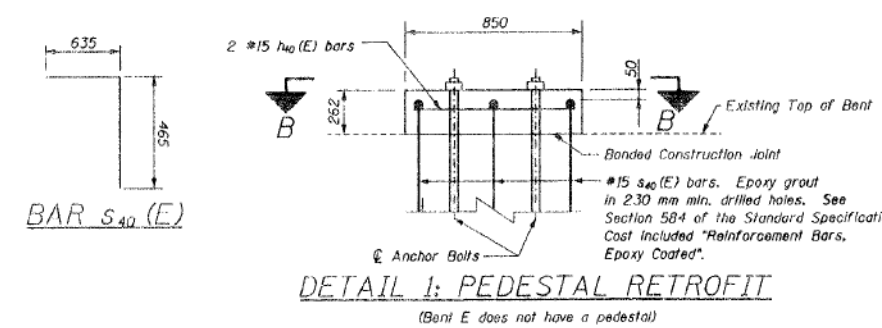
ELEVATION - EXISTING BENT C

BENT C BILL OF MATERIAL

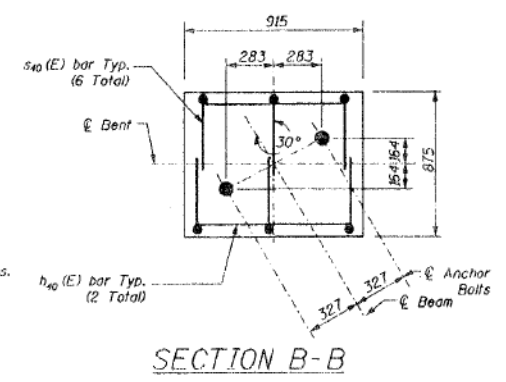
Bar	No.	Size	Length (m)	Shape
$h_{40}(E)$	18	#15	0.815	---
$h_{41}(E)$	4	#15	0.750	---
$v_{42}(E)$	3	#15	1.000	---
$s_{40}(E)$	54	#15	1.100	---
Concrete Removal		m^3		1.4
Concrete Structures		m^3		0.05
Reinforcement Bars, Epoxy Coated		kg		120
Expansion Bolts (M12)		Each		9

DESIGNED	TEH
CHECKED	EL
DRAWN	TEH
CHECKED	EL

- NOTES:
1. Work this sheet with Sheet SV-44.
 2. Reinforcement bars designated (E) shall be epoxy coated.
 3. All dimensions are in millimeters (mm) except as noted.



DETAIL 1: PEDESTAL RETROFIT
(Bent E does not have a pedestal)



SECTION B-B

BENT C CAP REHABILITATION
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:06:45 PM 0160X99-SHT-AS-BUILT-42



USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0x2.0000 '1' / in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

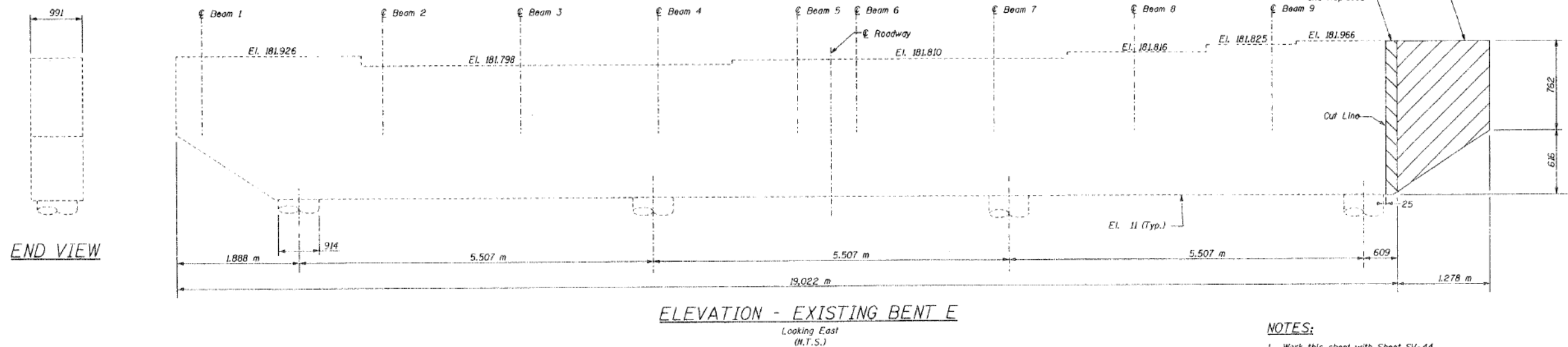
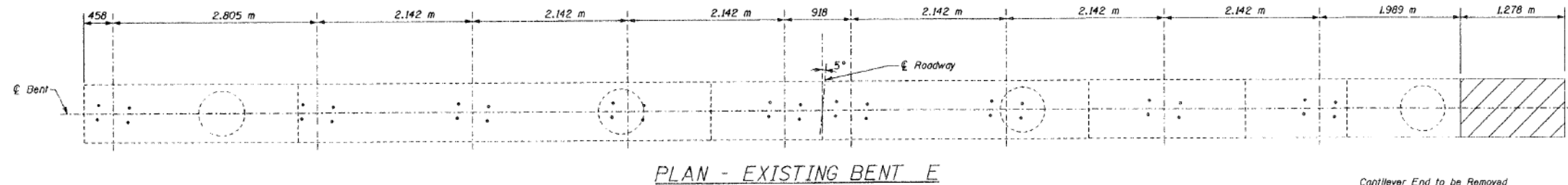
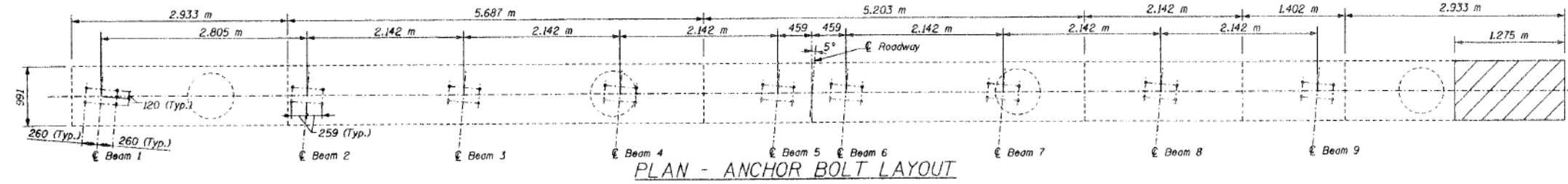
SHEET NO. AB-42 OF AB-68 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	310
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. R.T.E. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	165
SHEET NO. SV - 42 SHEETS SV-40				



NOTES:

1. Work this sheet with Sheet SV-44.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. All dimensions are in millimeters (mm) except as noted.

BENT E
BILL OF MATERIAL

Bar	No.	Size	Length (m)	Shape
$h_{41}(E)$	4	#15	0.750	—
$v_{42}(E)$	3	#15	1.000	—
Concrete Removal			m ³	1.2
Concrete Structures			m ³	0.05
Reinforcement Bars, Epoxy Coated			kg	10
Expansion Bolts (M12)			Each	9

DESIGNED	TEH
CHECKED	EL
DRAWN	TEH
CHECKED	EL

BENT E CAP REHABILITATION
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:06:49 PM
D:\60X99-SHT-AS-BUILT-43



USER NAME = mkwilson	DESIGNED WJC	REVISED
	CHECKED DL	REVISED
PLOT SCALE = 0x2.0000 '1" / in.	DRAWN RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-43 OF AB-68 SHEETS

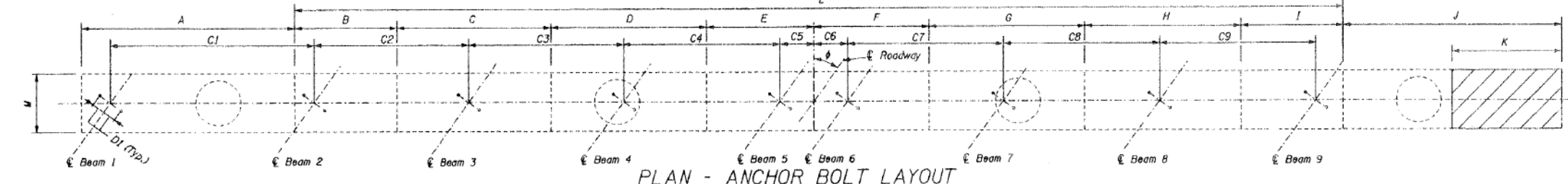
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	311
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

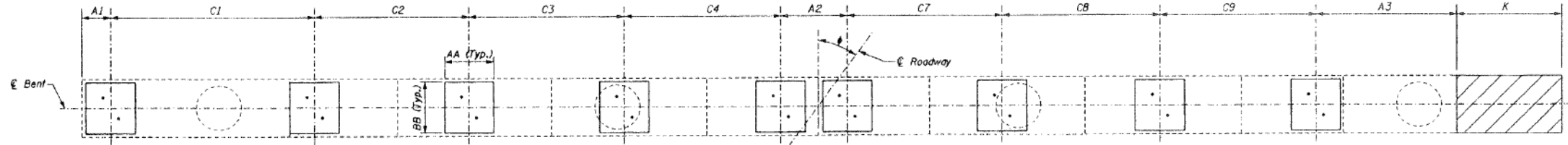
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
1423	0101.2-1B-R	COOK	192	166
SHEET NO. SV - 43		SHEETS SV-48		

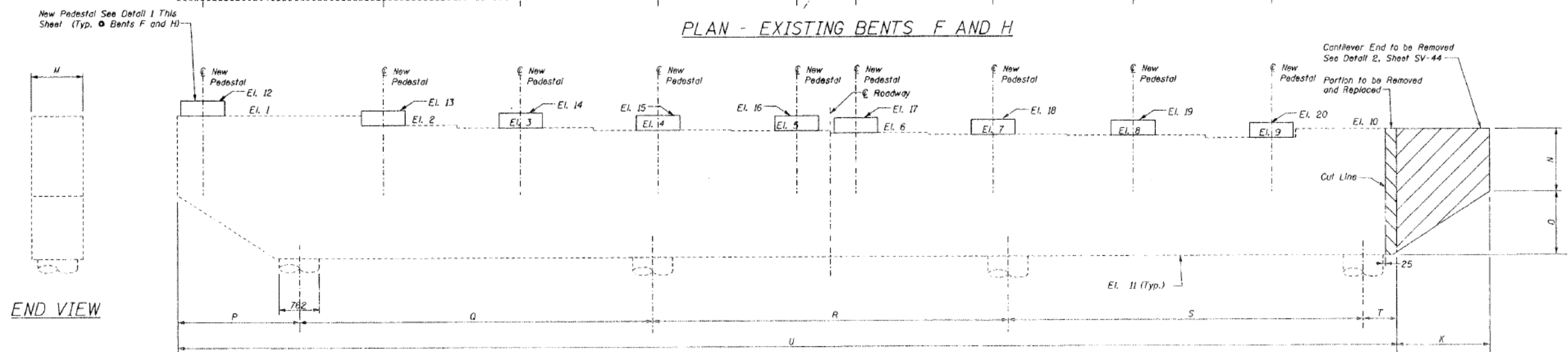
06 APR 1999 09:54:08



PLAN - ANCHOR BOLT LAYOUT



PLAN - EXISTING BENTS F AND H



ELEVATION - EXISTING BENTS F AND H

Looking East
(N.T.S.)

**BENTS F AND H
BILL OF MATERIAL***

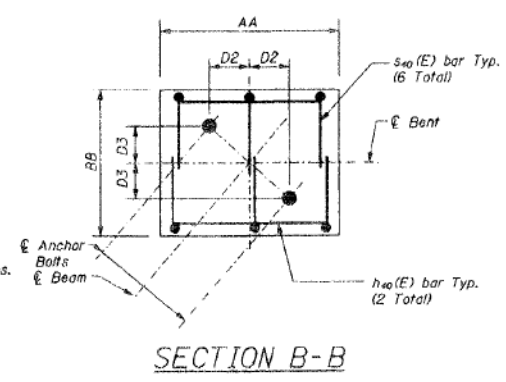
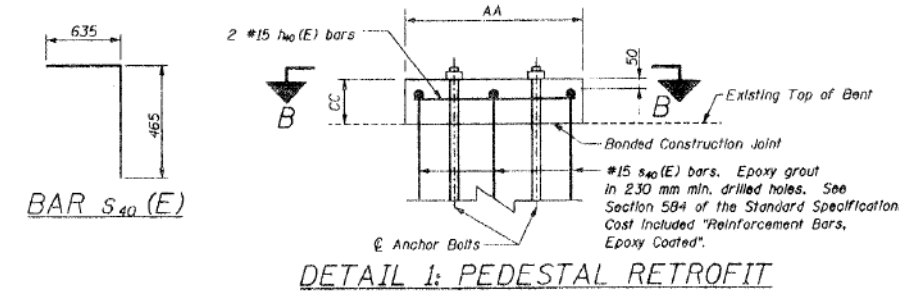
Bar	No.	Size	Length (m)	Shape
$h_{40}(E)$	8	#15	0.750	---
$v_{40}(E)$	6	#15	1.000	---
$h_{90}(E)$	18	#15	0.740	---
$s_{40}(E)$	108	#15	1.100	---
Concrete Removal		m^3	2.6	
Concrete Structures		m^3	0.10	
Reinforcement Bars, Epoxy Coated		kg	240	
Expansion Bolts (M12)		Each	18	

* Total for bents F and H

DESIGNED	TEH
CHECKED	EL
DRAWN	TEH
CHECKED	EL

NOTES:

1. Work this sheet with Sheet SV-44.
2. Bar Schedule and Bill of Material are for Bents F and H.
3. Reinforcement bars designated (E) shall be epoxy coated.
4. All dimensions are in millimeters (mm) except as noted.
5. For dimensions see Tables on SV-44.



**BENTS F AND H
CAP REHABILITATION**
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:06:52 PM 0160X99-SHT-AS-BUILT-44



USER NAME = mkwilson	DESIGNED	WJC	REVISED
	CHECKED	DL	REVISED
PLOT SCALE = 0x2.0000 '1' / 'in.	DRAWN	RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-44 OF AB-68 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	312
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PAGE NO. 1423	SECTION 0101.2-1B-R	COUNT 192	SHEET NO. 167	SHEET NO. SV - 44
SHEETS SV-48				

DIMENSION TABLE (mm)

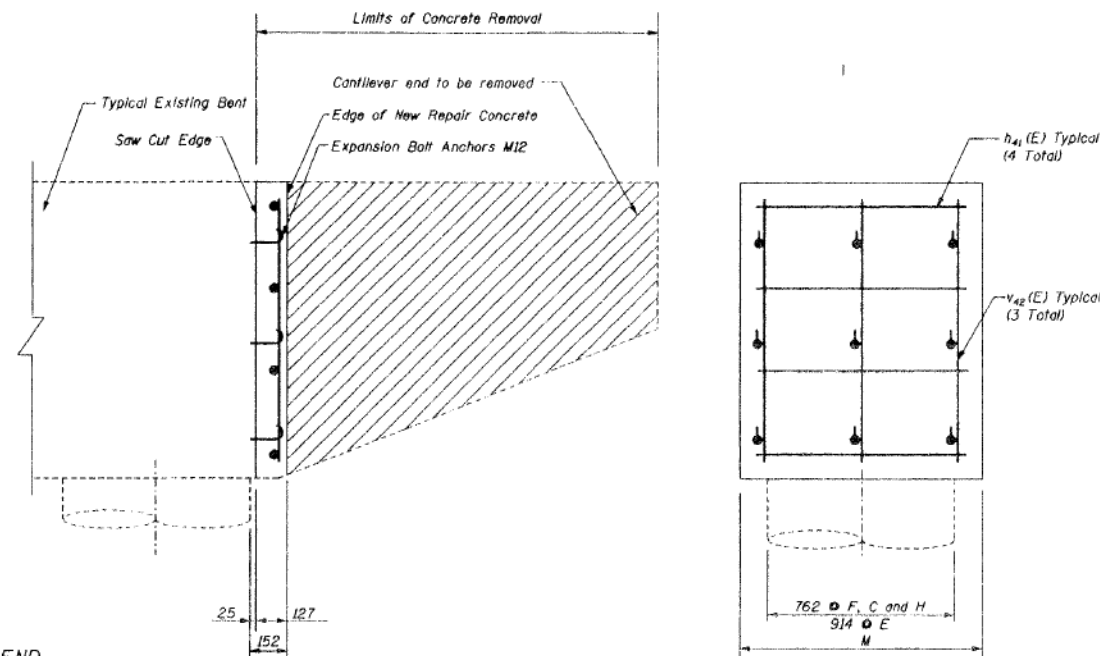
	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	φ
Bent F	2933	-	-	-	-	-	-	-	-	2933	1353	14435	914	762	581	1894	5507	5507	5507	533	18948	5°
Bent H	2987	1429	2182	2182	1559	1559	2182	2182	1429	2987	1392	-	813	762	356	1922	5610	5610	5610	533	19278	12°

ELEVATION TABLE (m)

	Existing Top Of Pier										New Bottom Of Bearing										
	El. 1	El. 2	El. 3	El. 4	El. 5	El. 6	El. 7	El. 8	El. 9	El. 10	El. 11	El. 12	El. 13	El. 14	El. 15	El. 16	El. 17	El. 18	El. 19	El. 20	
Bent F	181.932	181.798	181.798	181.798	181.798	181.798	181.798	181.798	181.798	181.932	180.588	182.194	182.060	182.060	182.060	182.060	182.060	182.060	182.060	182.060	182.060
Bent H	181.393	181.255	181.240	181.222	181.204	181.204	181.185	181.167	181.152	181.249	180.131	181.675	181.537	181.522	181.504	181.486	181.486	181.467	181.449	181.434	181.434

ANCHOR BOLT LAYOUT DIMENSIONS (mm)

	AA	BB	CC	A1	A2	A3	C1	C2	C3	C4	C5	C6	C7	C8	C9	D1	D2	D3
Bent F	915	875	262	459	918	1914	2805	2142	2142	2142	459	459	2142	2142	2142	327	326	29
Bent H	840	775	285	468	936	1932	2857	2181	2181	2181	468	468	2181	2181	2181	291	285	61



LEGEND:
 Concrete Removal

Note: Saw cut 25 mm from the face of the column.

DETAIL 2: CANTILEVER RETROFIT

For Bents C, E, F and H
(From Sheet SV-41, SV-42 and SV-43)

DESIGNED EL	
CHECKED JDB	
DRAWN TEH	
CHECKED EL	

NOTES:

1. Work this Sheet with Sheet SV-41 through SV-43.
2. All dimensions are in millimeters (mm) except as noted.

BENTS F AND H DIMENSION
TABLES AND CANTILEVER RETROFIT DETAIL
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:06:56 PM
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USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0x2.0000 '1" / in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-45 OF AB-68 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	313
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

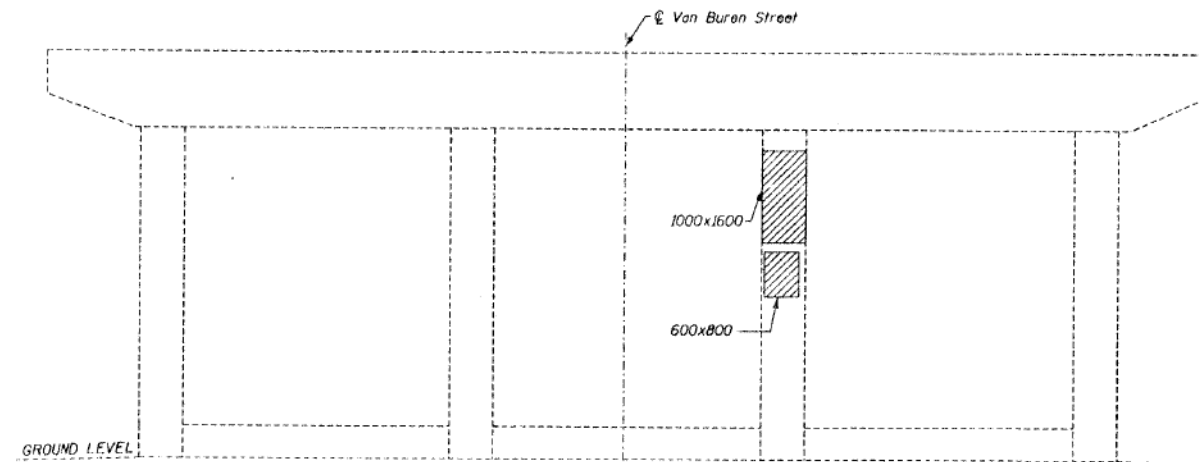
FOR INFORMATION ONLY

BILL OF MATERIALS

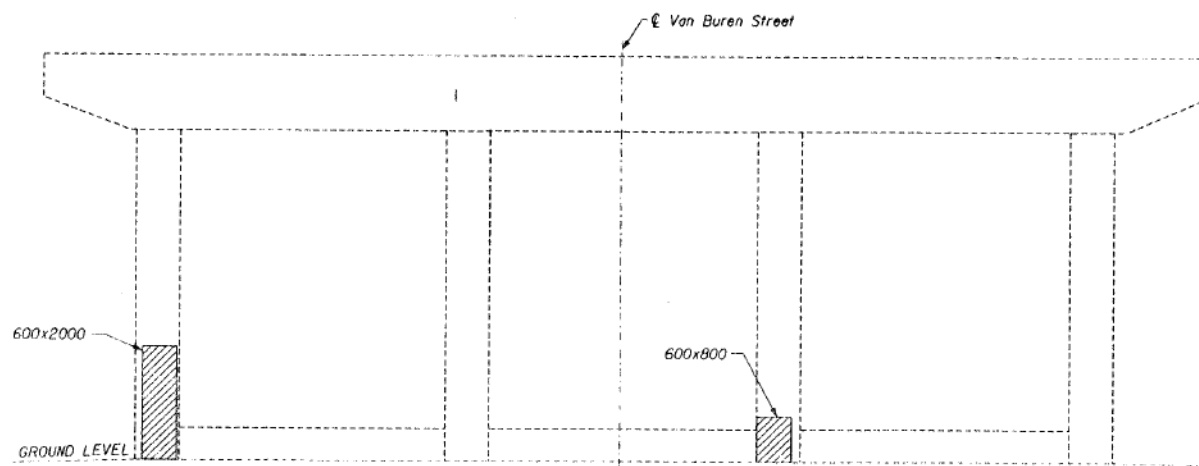
ITEM	UNIT	QUANTITY
Formed Concrete Repair Depth < 125 mm	m ²	3.0
Formed Concrete Repair Depth > 125 mm	m ²	2.0

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

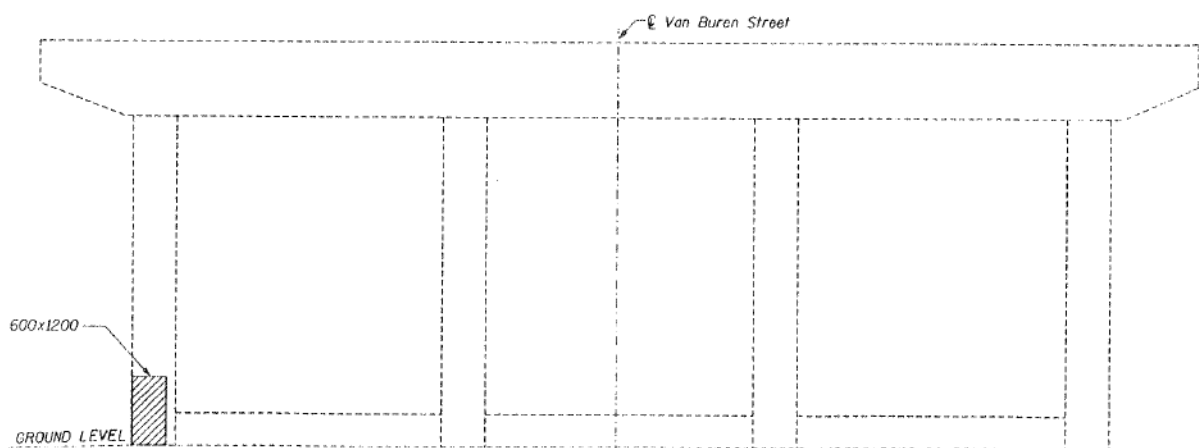
PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	SHEET NO. SV
1423	0101.2 IB-R	COOK	192	168	45
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT			SHEETS SV-48



BENT B
(Looking West)



BENT C
(Looking West)



BENT E
(Looking West)

NOTES:

- All dimensions are in millimeters (mm) except as noted.
- Work this Sheet with Sheets SV-3 and SV-4.

COLUMN REHABILITATION DETAILS
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-IB-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

DESIGNED	EL
CHECKED	JDB
DRAWN	AJN
CHECKED	EL

USER NAME = mkwilson	DESIGNED	WJC	REVISED
	CHECKED	DL	REVISED
PLOT SCALE = 0x2.0000 '1" / in.	DRAWN	RVV	REVISED
PLOT DATE = 12/15/2016	CHECKED	WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-46 OF AB-68 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	314
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

MATERIALS FOR ILLINOIS COIL-LOCK ANCHOR BOLT

The anchor bolt shall be fabricated from cold drawn or hot finished seamless carbon steel mechanical tubing conforming to ASTM A 519, Grade 1026, CW and supplied with hexagonal nuts and nut washers.
The coil wire shall be made of any suitable soft steel wire.
The finished anchor bolt shall be cleaned of rust and other foreign materials and wrapped or packaged to prevent contamination until they are installed.
The epoxy grout shall be a two-component, epoxy resin bonding system conforming to ASTM C 881, Type I, Grade 1 and of a Class suitable for the temperature at installation.

INSTALLATION PROCEDURE for the ILLINOIS COIL-LOCK ANCHOR BOLT

1. With the coil wire in place, the bolt shall be inserted into the hole and turned clockwise to a snug fit in the hole. Nut and washer shall be placed on the bolt. The nut shall be tensioned until the steel base plates are held securely to the concrete bearing seat.
2. Epoxy grout shall be pumped through the zerk fitting with a pressure gun. Pumping shall continue until the epoxy overflows the hole around the bolt shank. After pumping is discontinued, excess epoxy shall be immediately wiped off.

ALTERNATE ANCHOR BOLTS

The Contractor may use, at his option, the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by the Department. The Contractor shall install these anchor rods in pre-drilled holes according to the manufacturer's recommendations and procedures.
The capsule or the adhesive cartridge type anchor rods shall be a two part system composed of:
1. A threaded rod stud with nut and washer of the type specified.
2. A sealed glass capsule or a sealed glass adhesive cartridge containing premeasured amounts of the adhesive chemical.

NOTE: All anchor bolts are A307 type bolts.

PROJECT NO.	SECTION	DATE	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	169
FED. ROAD DIST. NO.	SHEET NO.	FED. AID PROJECT		

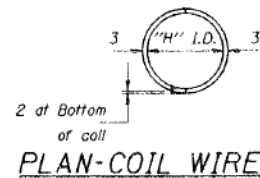
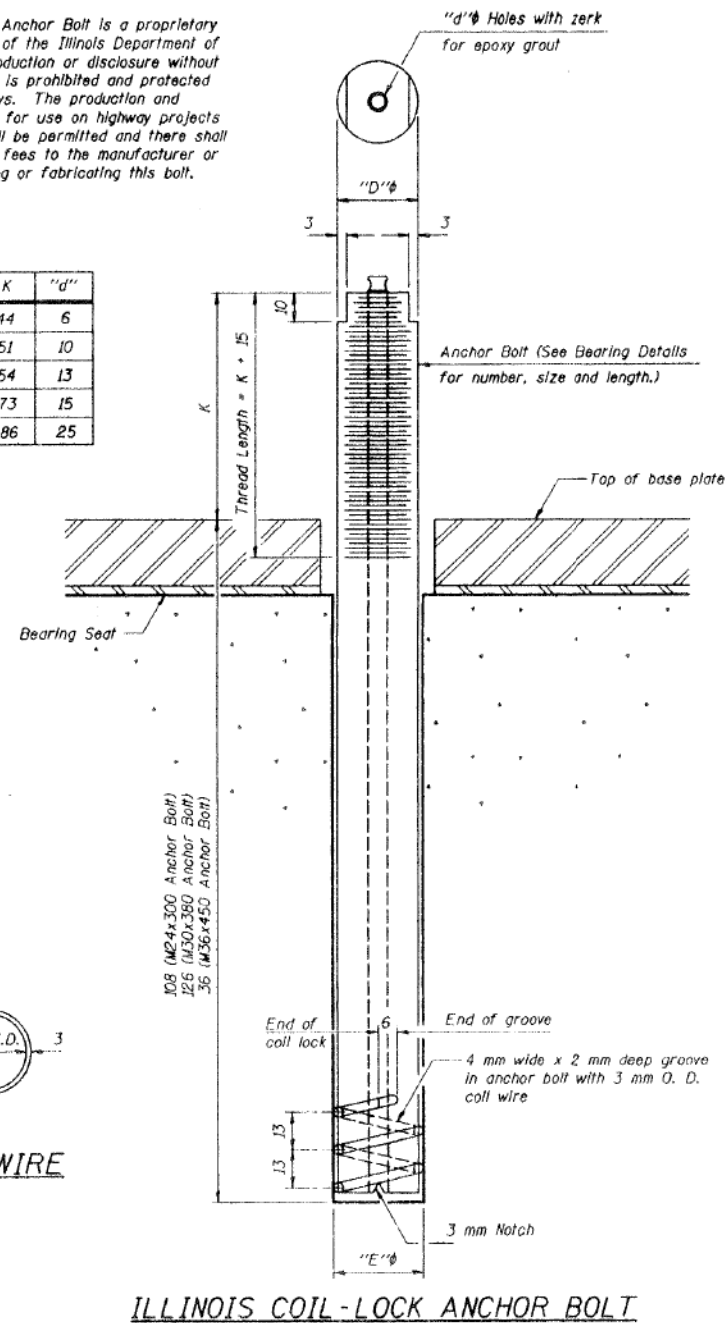
SHEET NO. SV - 46
SHEETS SV-48

GENERAL NOTES

Holes in the masonry for anchor bolts shall be drilled through the base plates to the diameter and depth shown or according to the manufacturer's recommendation after beams or girders have been erected and adjusted.
Prior to setting the bolts, the holes shall be dry and all dust and loose particles shall be removed by the use of compressed air or vacuuming.
The anchor bolts, furnished and installed and including the epoxy grout or capsules shall not be paid for separately but shall be included in the unit bid price for "Furnishing and Erecting Structural Steel".
All dimensions are in millimeters (mm) except as noted.

The Illinois Coil-Lock Anchor Bolt is a proprietary item which is the property of the Illinois Department of Transportation. Use, reproduction or disclosure without express written permission is prohibited and protected under Federal copyright laws. The production and the fabrication of this bolt for use on highway projects in the State of Illinois shall be permitted and there shall be no incurred charges or fees to the manufacturer or the fabricator for producing or fabricating this bolt.

D	E	H	K	"d"
24	27	20	44	6
30	33	26	51	10
36	39	32	54	13
48	51	44	73	15
64	67	60	86	25



PLAN-COIL WIRE

06 APR 1998 09:55:43

A:\as-built\vanuren\sn0101.2-1B-R

DESIGNED	EL
CHECKED	AJN
DRAWN	SSD
CHECKED	EL

- NOTE:
1. All dimensions are in millimeter (mm) except otherwise noted.
 2. For bolt types and locations, see Sheets SV-30 to SV-32

ANCHOR BOLT DETAILS
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

3:07:03 PM
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USER NAME = mkwilson	DESIGNED WJC	REVISED
	CHECKED DL	REVISED
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PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-47 OF AB-68 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	315
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

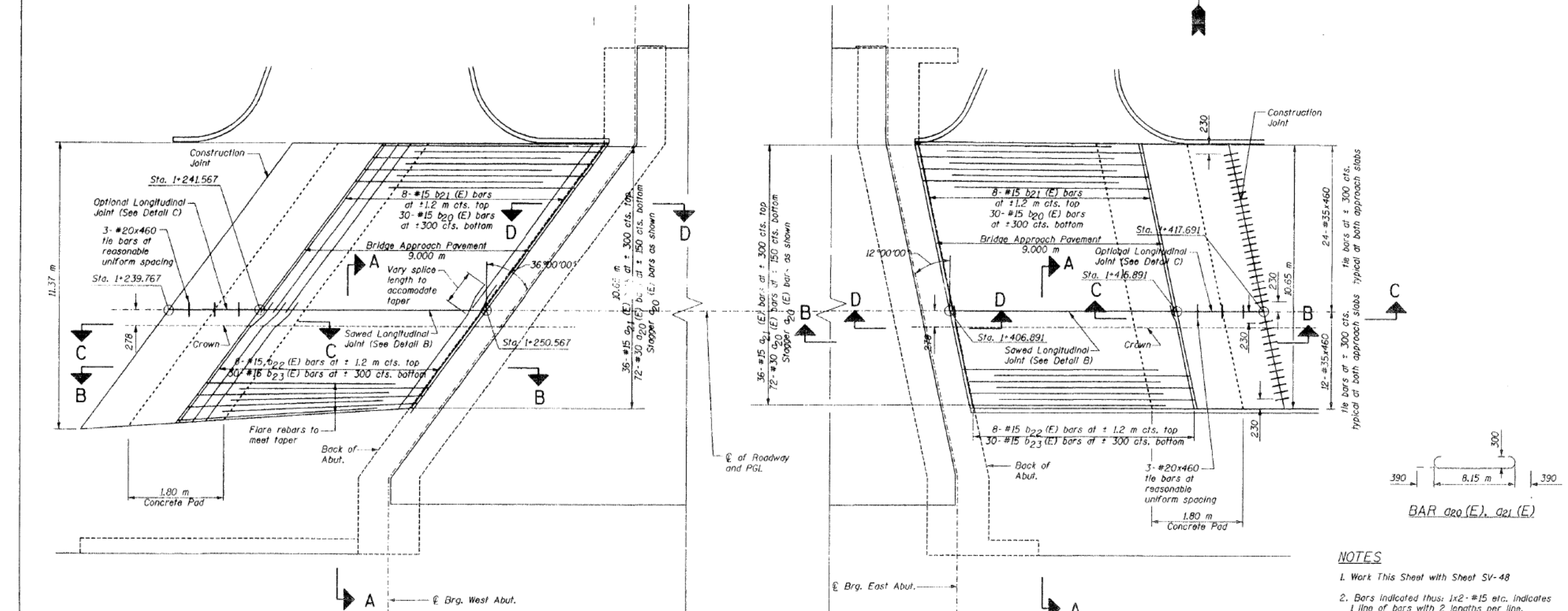
FOR INFORMATION ONLY

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	016-1B-R	COOK	192	170
FED. ROAD DIST. NO.	ALTERN.	FED. AID PROJECT		

SHEET NO. SV - 47
SHEETS SV-48

06 APR 1999 10:00:14



PLAN VIEW
N.T.S.

- NOTES**
1. Work This Sheet with Sheet SV-48
 2. Bars indicated thus: 1x2-#15 etc., indicates 1 line of bars with 2 lengths per line.
 3. Typical splice length for #15 bars to be 640 mm minimum.
 4. Reinforcement bars designated (E) shall be epoxy coated.
 5. All dimensions are in mm unless noted otherwise.

APPROACH SLAB PLAN
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

DESIGNED	HDD
CHECKED	MRS
DRAWN	MJP
CHECKED	EL

USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0x2.0000 '1' / in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-48 OF AB-68 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	316
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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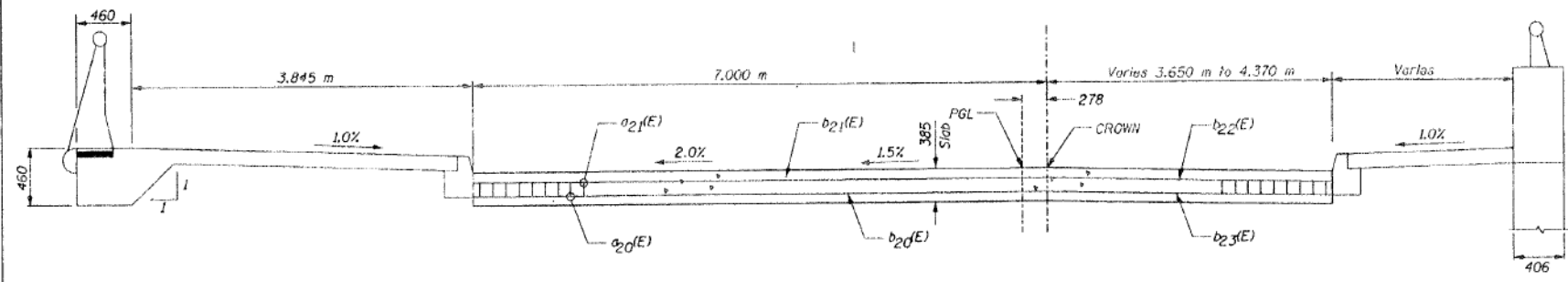


FOR INFORMATION ONLY

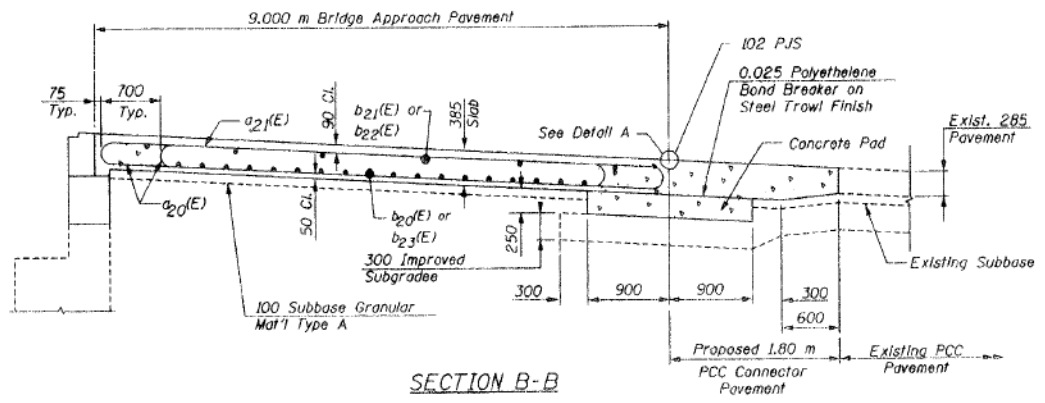
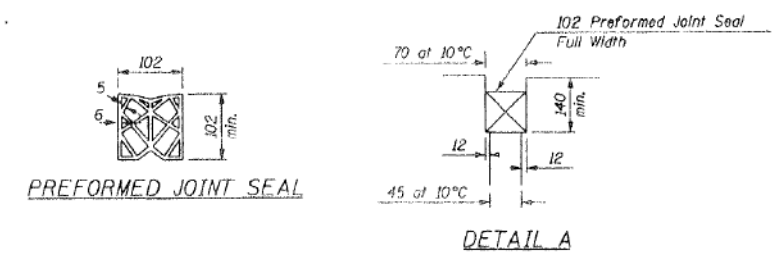
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PROJECT NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	0101.2-1B-R	COOK	192	171
DESIGNED BY	CHECKED BY	DRAWN BY	PROJECT NO.	

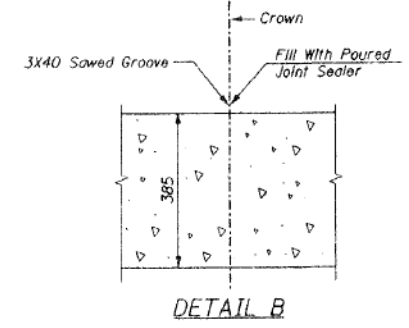
SHEET NO. SV - 48
SHEETS SV-48



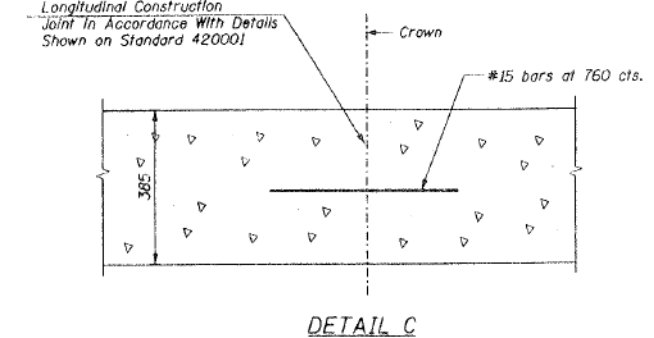
SECTION A-A



SECTION B-B

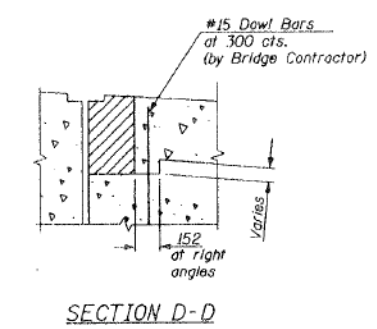


DETAIL B

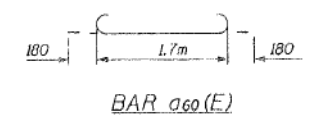


DETAIL C

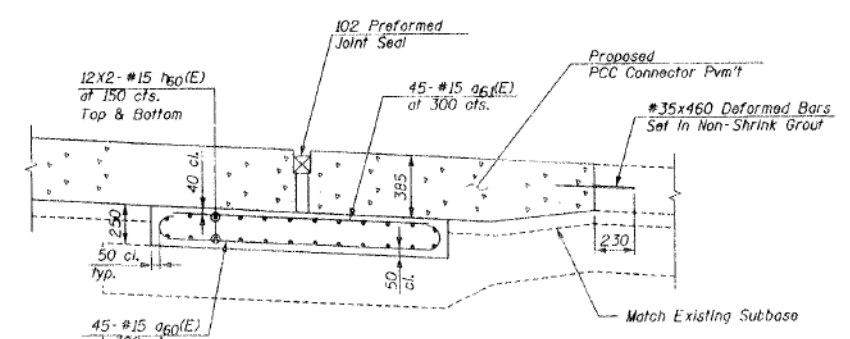
As Approved by the Engineer, the Contractor may elect to reduce the widths of pour by the use of the optional Longitudinal Construction Joint shown. Joints shall be located at the edge of a traffic lane.



SECTION D-D



BAR a60(E)



SECTION C-C

NOTES

1. Work This Sheet with Sheet SL-23
2. Reinforcement bars designated (E) shall be epoxy coated.
3. The Cost of the Subgrade is Included in the Unit Price Bid for "Bridge Approach Pavement"
4. All dimensions are in mm unless noted otherwise.

APPROACH SLAB SECTIONS & DETAILS
VAN BUREN STREET (F.A.U. 1423)
OVER I-90/94 KENNEDY EXPRESSWAY
SECTION 0101.2-1B-R
COOK COUNTY
STA. 1+344.10
STRUCTURE NO. 016-2055

EDWARDS AND KELCEY

DESIGNED	HDD
CHECKED	MRS
DRAWN	MJP
CHECKED	EL

USER NAME =	mkwilson	DESIGNED	WJC	REVISED	
CHECKED	DL	CHECKED	DL	REVISED	
PLOT SCALE =	0x2.0000 '1' / in.	DRAWN	RVV	REVISED	
PLOT DATE =	12/15/2016	CHECKED	WJC	REVISED	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-49 OF AB-68 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	317
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

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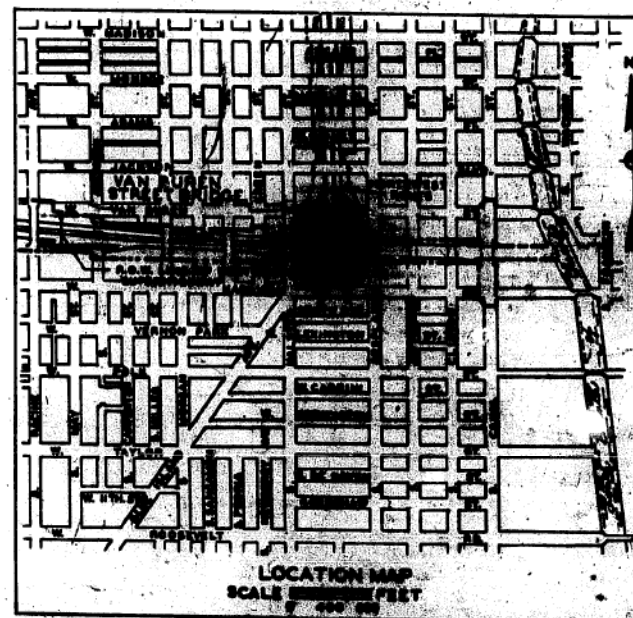
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EXPRESSWAY MAINTENANCE

STATE OF ILLINOIS
CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
PLANS FOR
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B
F. A. I. ROUTE NO. 12, PROJECT 0702-2 (49)



- | | |
|---|--|
| <p>STRUCTURES IN CONTRACT</p> <p>LONGITUDINAL METAL JOINT FOR PAVEMENT CONSTRUCTION JOINT FOR PAVEMENT</p> <p>EXISTING GENERAL REINFORCEMENT</p> <p>ELEVATION AT TOP OF CURB</p> <p>ELEVATION AT EDGE OF PAVEMENT</p> <p>LONGITUDINAL CURB EXPANSION</p> <p>MANHOLE EXISTING</p> <p>MANHOLE TO BE ADJUSTED</p> <p>CATCH BASIN EXISTING</p> <p>CATCH BASIN TO BE ADJUSTED</p> <p>STORM SEWER CONNECTION</p> <p>INLET EXISTING</p> <p>INLET TO BE CONSTRUCTED</p> <p>CATCH BASIN TO BE CONSTRUCTED</p> | <p>STRUCTURES NOT IN CONTRACT</p> <p>CITY ELECTRICAL MANHOLE</p> <p>COMMERCIAL UNION CO. MANHOLE</p> <p>CITY WATER MANHOLE</p> <p>ILLINOIS BELL TELEPHONE CO. MANHOLE</p> <p>CITY SURFACE LINE MANHOLE</p> <p>TRAFFIC LIGHT</p> <p>LIGHT STANDARD</p> <p>FIRE HYDRANT</p> |
|---|--|

ITEM NO	UNIT
1	CU. YD.
2	CU. YD.
3	CU. YD.
4	CU. YD.
5	CU. YD.
6	CU. YD.
7	CU. YD.
8	CU. YD.
9	CU. YD.
10	CU. YD.
11	CU. YD.
12	CU. YD.
13	CU. YD.
14	CU. YD.
15	CU. YD.
16	CU. YD.
17	CU. YD.
18	CU. YD.
19	CU. YD.
20	CU. YD.
21	CU. YD.
22	CU. YD.
23	CU. YD.
24	CU. YD.
25	CU. YD.
26	CU. YD.
27	CU. YD.
28	CU. YD.
29	CU. YD.
30	CU. YD.
31	CU. YD.
32	CU. YD.
33	CU. YD.
34	CU. YD.
35	CU. YD.
36	CU. YD.
37	CU. YD.
38	CU. YD.
39	CU. YD.
40	CU. YD.
41	CU. YD.
42	CU. YD.
43	CU. YD.
44	CU. YD.
45	CU. YD.
46	CU. YD.
47	CU. YD.
48	CU. YD.
49	CU. YD.
50	CU. YD.
51	CU. YD.
52	CU. YD.

SUMMARY OF QUANTITIES

RETURN THIS PLAN
TO MAINTENANCE

1014 706

3A

QUANTITY	DESCRIPTION
1,070	ALUMINUM
3,975	STEEL
1,350	STEEL
4	INLET
3	CATCH
6	MANHOLE
4	CATCH
2	FILLING
3,000	MISCELLANEOUS IRON CASTINGS
	SIPHON INLET CHAMBER
	SIPHON OUTLET CHAMBER
	STEP CHAMBER
	STEP CONNECTION
110	STONE CURBS, TYPE 2, 6-INCH
300	STONE CURBS, TYPE 2, 30-INCH
150	STONE CURBS, TYPE 2, 18-INCH, JACKED IN PLACE
150	STONE CURBS, TYPE 2, 18-INCH
450	30-INCH DIAMETER CONCRETE PIPE SIPHON TUBES
475	30-INCH DIAMETER CONCRETE PIPE SIPHON TUBES
120	24-INCH DIAMETER CONCRETE PIPE SIPHON TUBES
35	2-INCH CAST IRON FITTINGS
75	6-INCH CAST IRON FITTINGS AND FITTINGS
60	MISCELLANEOUS THINGS
2	NAME PLATES
7	REMOVING EXISTING ELEVATED COLUMNS
	MISCELLANEOUS ELECTRICAL WORK ON EXISTING ELEVATED STRUCTURE
	REMOVING EXISTING ELEVATED STRUCTURE AND TRUCK

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
DATE: MARCH 18, 1957
APPROVED: [Signature]
APPROVED: [Signature]
APPROVED: [Signature]
APPROVED: [Signature]

DEPARTMENT OF COMMERCE
BUREAU OF PUBLIC WORKS
APPROVED: [Signature]
APPROVED: [Signature]

APPROVED AS TO SEWER ALTERATIONS AND ADDITIONS
[Signature]

3:07:14 PM 0160X99-5HT-AS-BUILT-50



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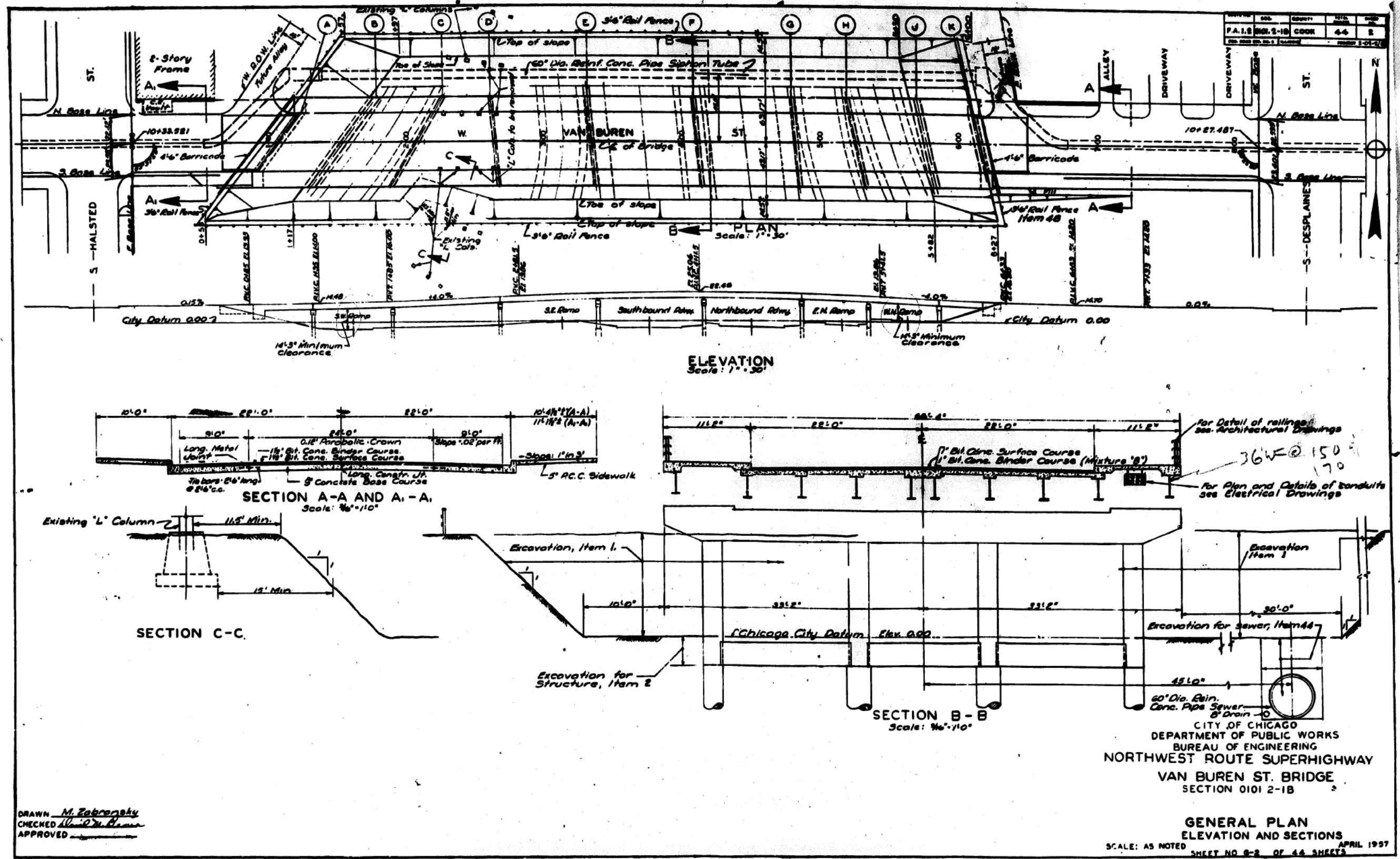
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-50 OF AB-68 SHEETS

F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 318
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	

FOR INFORMATION ONLY



3:07:18 PM
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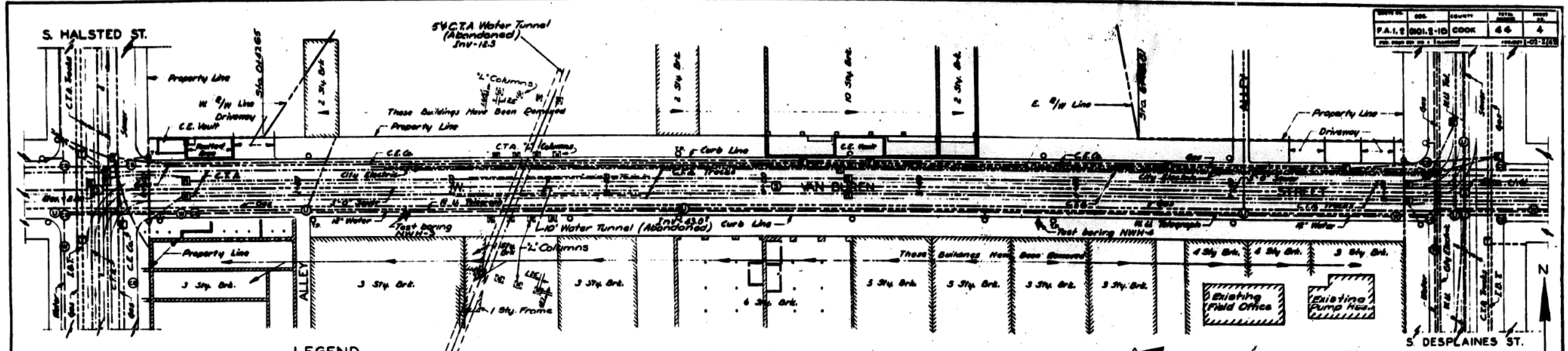
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

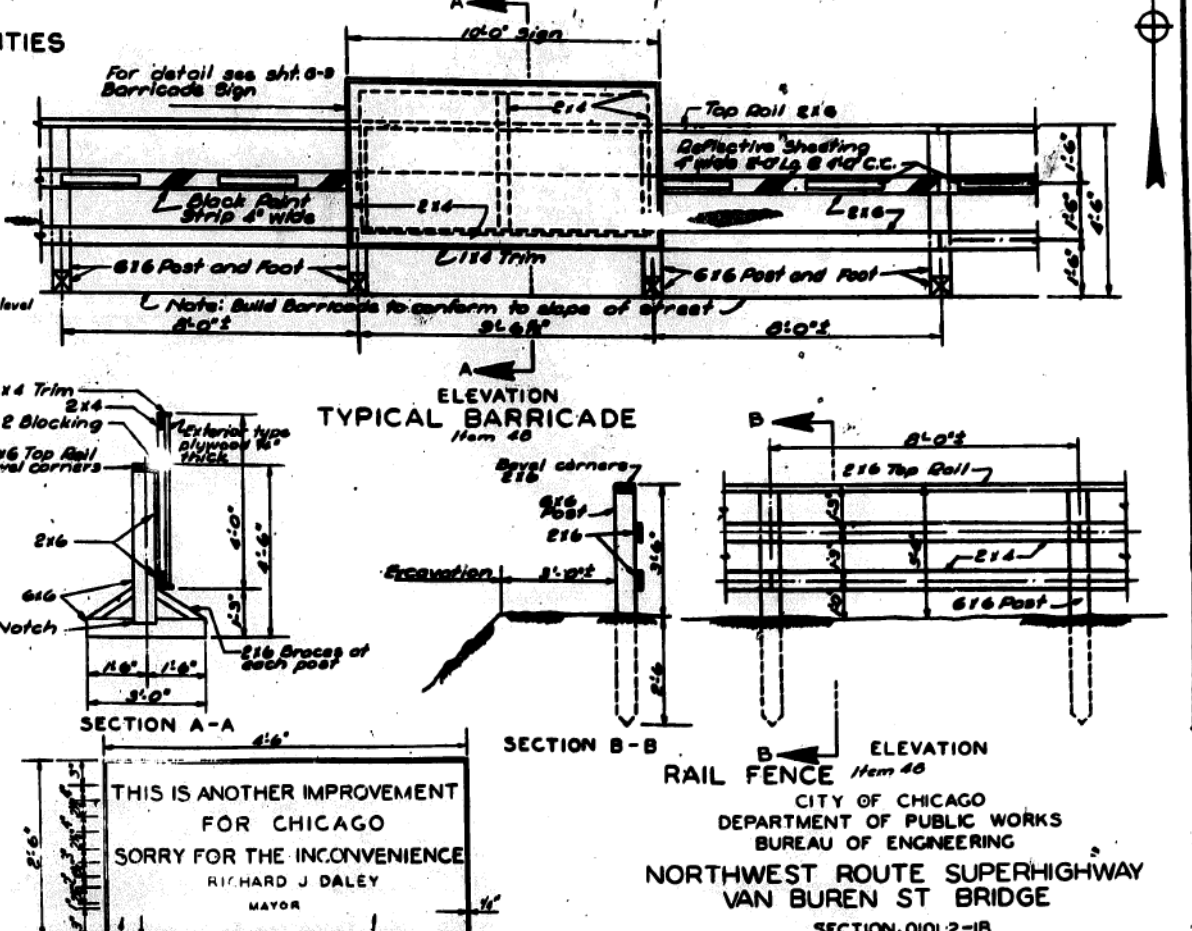
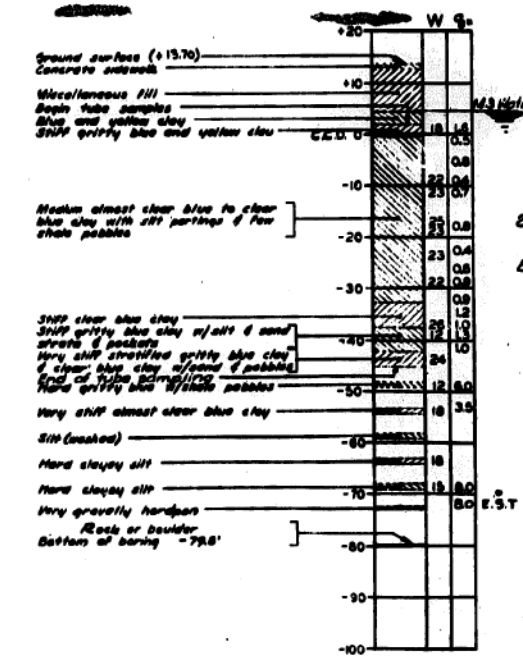
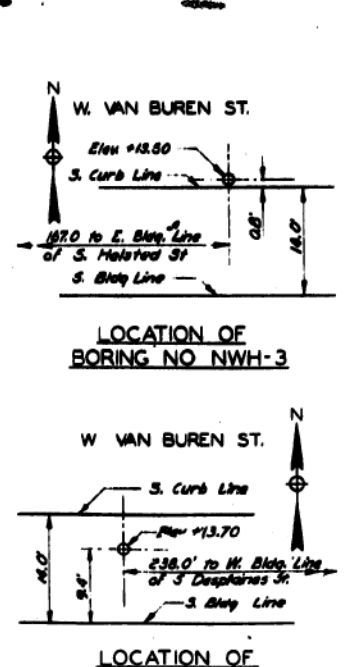
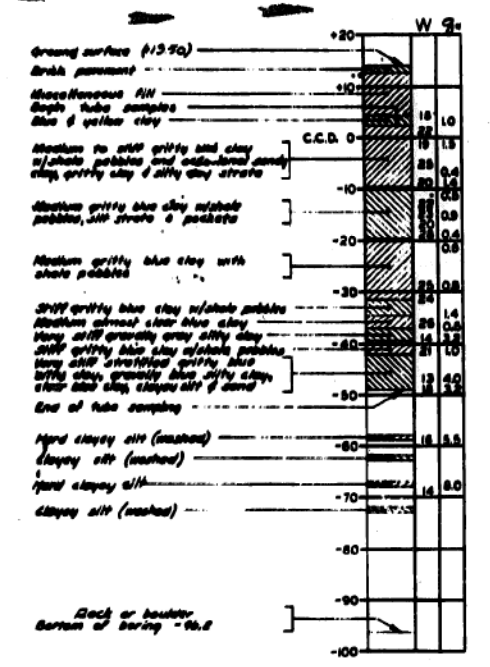
SHEET NO. AB-51 OF AB-68 SHEETS

F.A.I. R.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 319
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



- LEGEND**
- ① --- City Sewers
 - ② --- Commonwealth Edison Co.
 - ③ --- Chicago Transit Authority
 - ④ --- Western Union Telegraph Co.
 - ⑤ --- Illinois Bell Telephone Co.
 - ⑥ --- City Water
 - ⊙ --- City Electric
 - ⊙ --- Peoples Gas Light & Coke Co.
 - ⊙ --- Catch Basin
 - ⊙ --- Fire Hydrant
 - ⊙ --- Trolley & Light Pole

PLAN OF EXISTING UTILITIES
Scale: 1"=30'



DRAWN BY FRD TREBIS
TRACED BY
CHECKED BY George J. S.B. J.E.S. '96
APPROVED BY

SOIL TEST BORINGS

Notes:
Figures in column marked "W" indicate the water content in % of dry weight.
Figures in column marked "G" indicate the unconfined compressive strength (tons/sq. ft.).
Boring data are shown only as a guide for bidders in estimating soil conditions which may be encountered in the work.

Location to be determined by Engineer and suitable pointing to be included at no additional cost.

EXISTING UTILITIES AND SOIL BORINGS BARRICADE, FENCE AND SIGN DETAILS
SECTION 001.2-1B
APRIL 1957
SCALE AS NOTED
SHEET NO. 6-4 OF 44 SHEETS

3:07:21 PM 0160X99-SHT-AS-BUILT-52



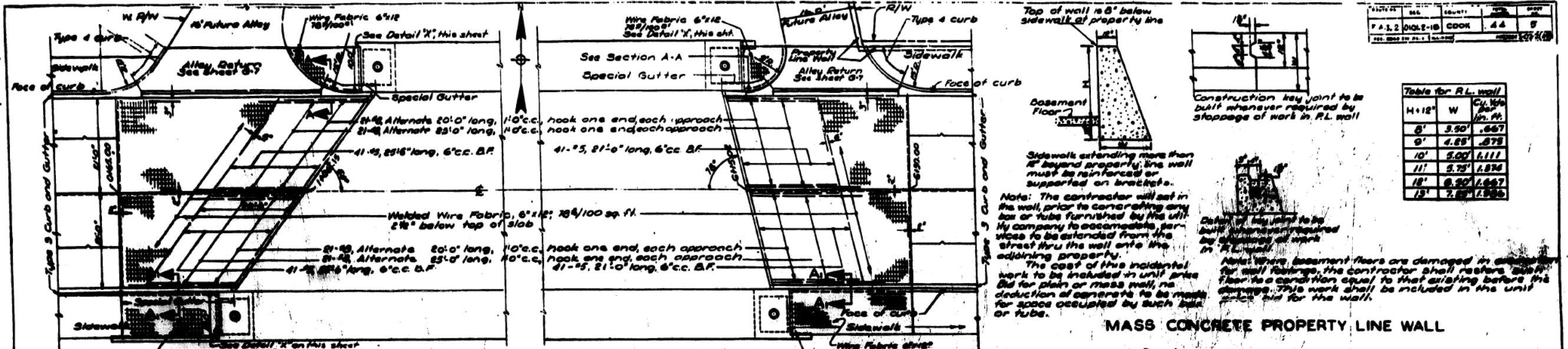
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	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

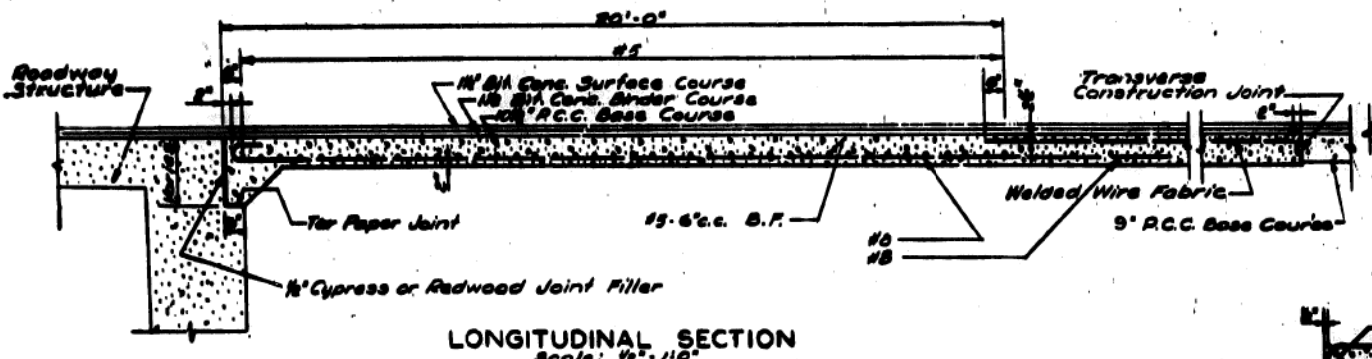
EXISTING AS-BUILTS SN 016-1707
SHEET NO. AB-52 OF AB-68 SHEETS

F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 320
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	

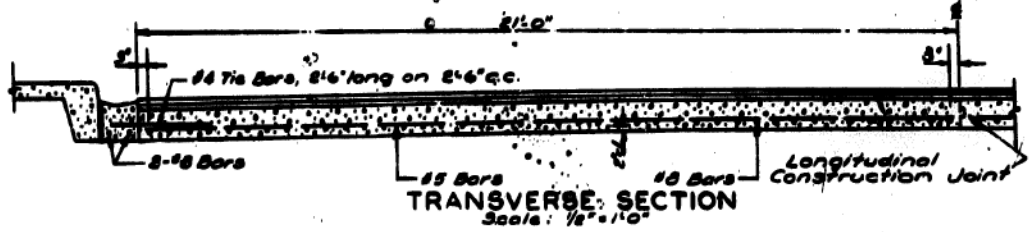
FOR INFORMATION ONLY



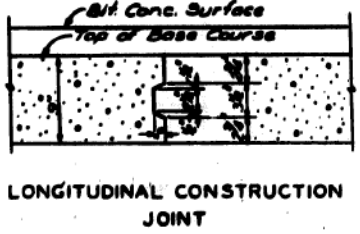
PLAN OF APPROACH PAVEMENTS
Scale: 1" = 10'



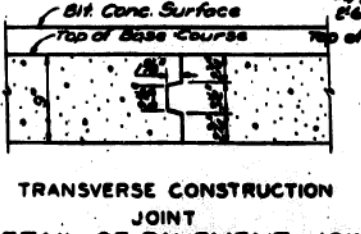
LONGITUDINAL SECTION
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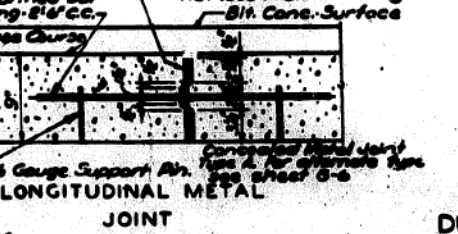
TRANSVERSE SECTION
Scale: 1/2" = 10'



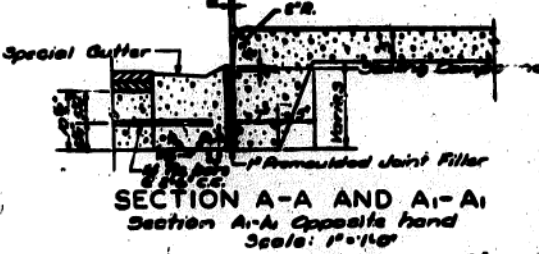
LONGITUDINAL CONSTRUCTION JOINT



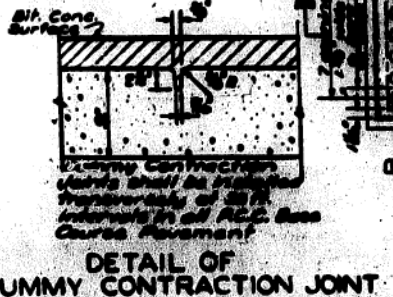
TRANSVERSE CONSTRUCTION JOINT



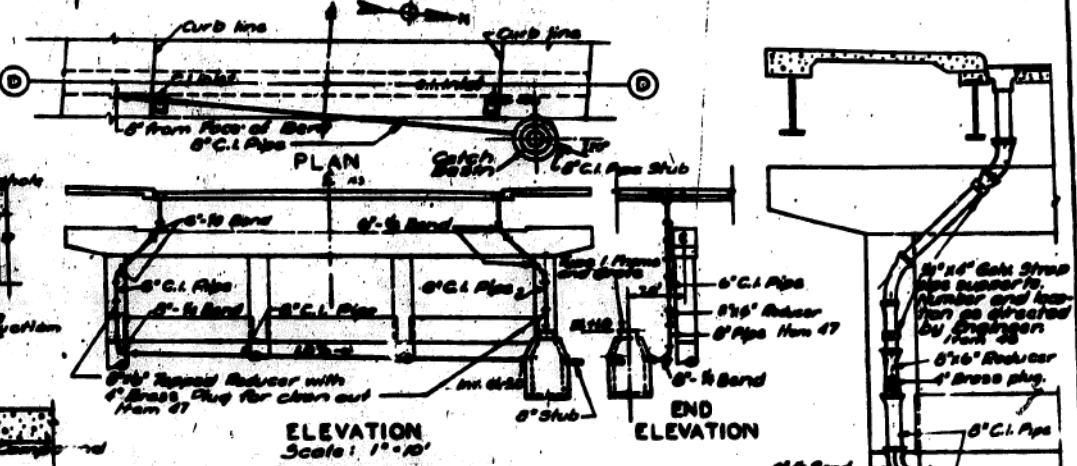
DETAIL OF PAVEMENT JOINTS
Scale: 1 1/2" = 10'



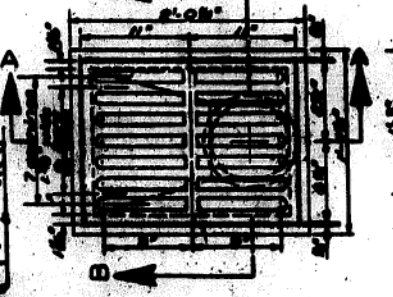
SECTION A-A AND A-A'
Scale: 1" = 10'



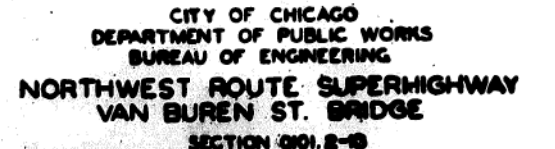
DETAIL OF DUMMY CONTRACTION JOINT



DOWNSPOUT DETAIL AT BENT D
Scale: 1" = 10'



SECTION A-A
MODIFIED TYPE 4 C.I. INLET



SECTION B-B

SECTION 001, 8-10
APPROACH PAVEMENT, PROPERTY LINE WALL
AND PAVEMENT JOINTS

SCALE: AS NOTED APRIL 1987
SHEET NO. 8-9 OF 44 SHEETS

SECTION	DATE	BY	NO.
F.A.I. 2	01/18/87	COOK	44
REVISED BY: []			

H x 12" W	Cu. Yds per 100 sq. ft.
8'	3.50' .667
9'	4.85' .875
10'	5.00' 1.111
11'	5.75' 1.375
12'	6.20' 1.667
13'	7.65' 1.969

Top of wall is 8" below sidewalk at property line

Construction key joint to be built whenever required by stoppage of work in R.L. wall

Sidewalk extending more than 12' beyond property line must be reinforced or supported on brackets.

Note: The contractor will set in the wall prior to concreting any box or tube furnished by the utility company to accommodate services to be extended from the street thru the wall into the adjoining property.

The cost of this incidental work to be included in unit price bid for plain or mass wall, no deduction of concrete to be made for space occupied by such box or tube.

Note: Where basement floors are damaged in excavation for wall footings, the contractor shall restore such floor to a condition equal to that existing before the damage. This work shall be included in the unit price bid for the wall.

MASS CONCRETE PROPERTY LINE WALL

DRAWN W.M. E. M. Z.
CHECKED [Signature]
APPROVED [Signature]

3:07:25 PM 01/18/87 AS-BUILT-53



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PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

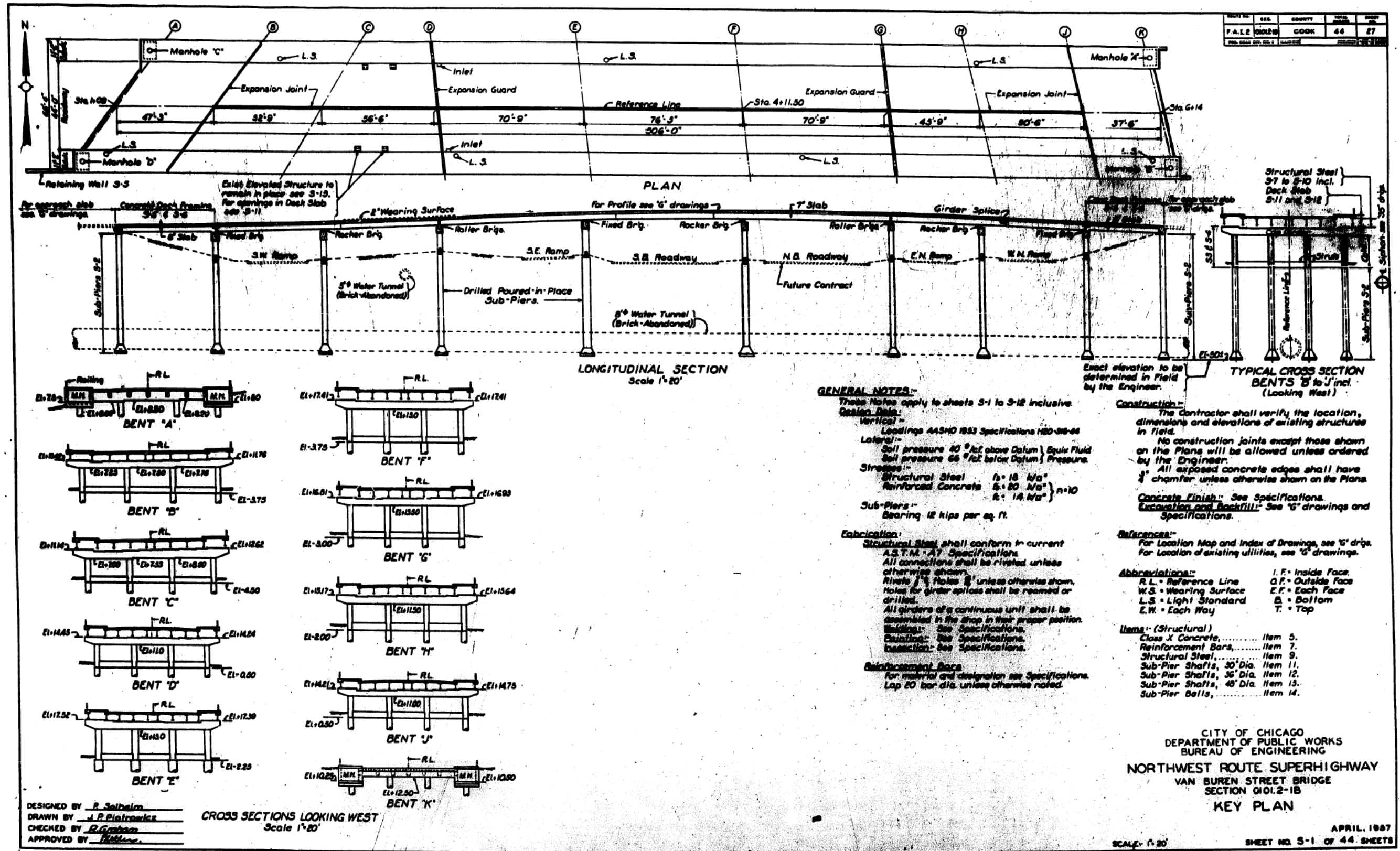
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-53 OF AB-68 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	321
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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 PLOT DATE = 12/15/2016

DESIGNED WJC
 CHECKED DL
 DRAWN RVV
 CHECKED WJC

REVISED
 REVISED
 REVISED
 REVISED

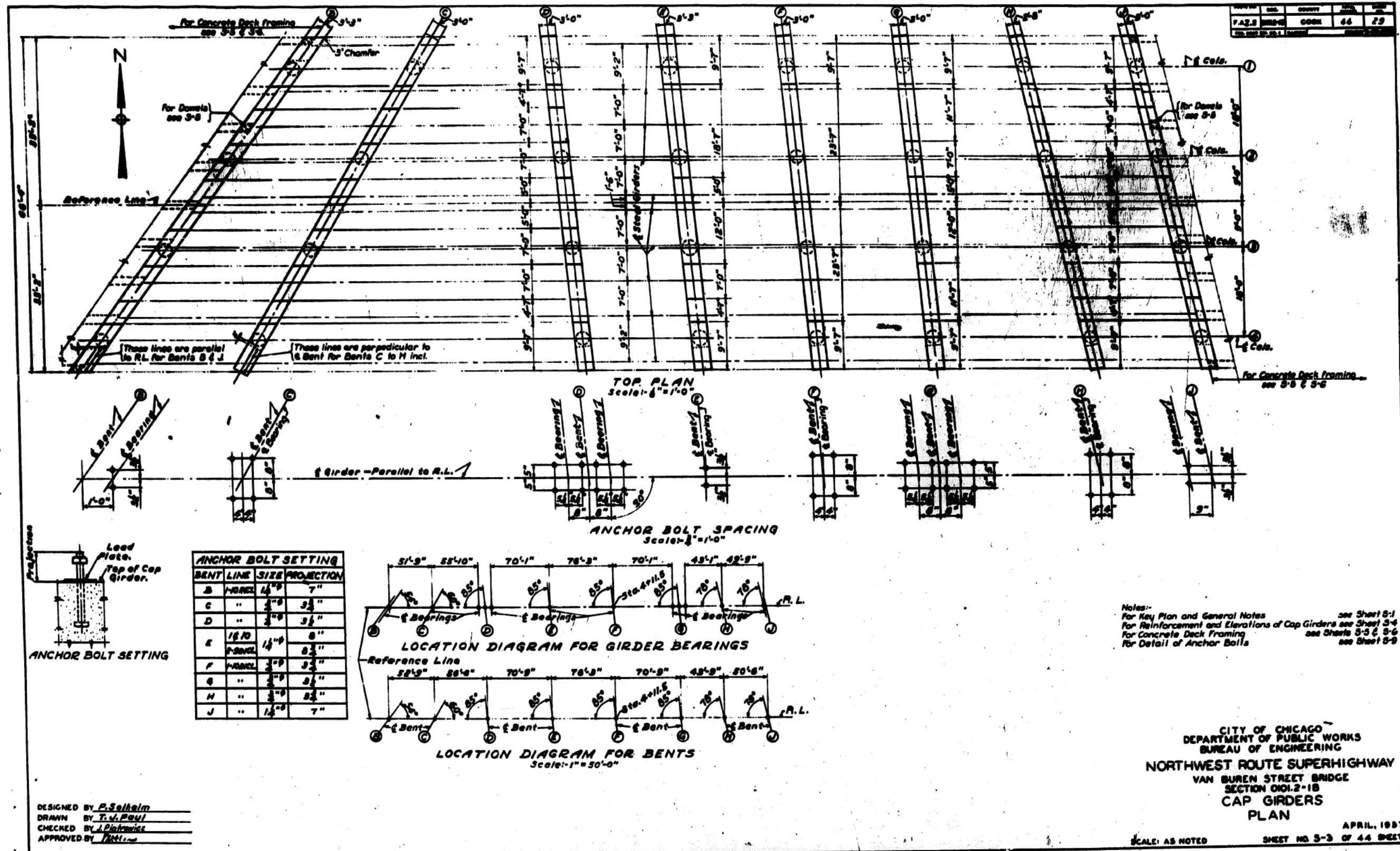
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-54 OF AB-68 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	322
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY



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	CHECKED WJC	REVISED

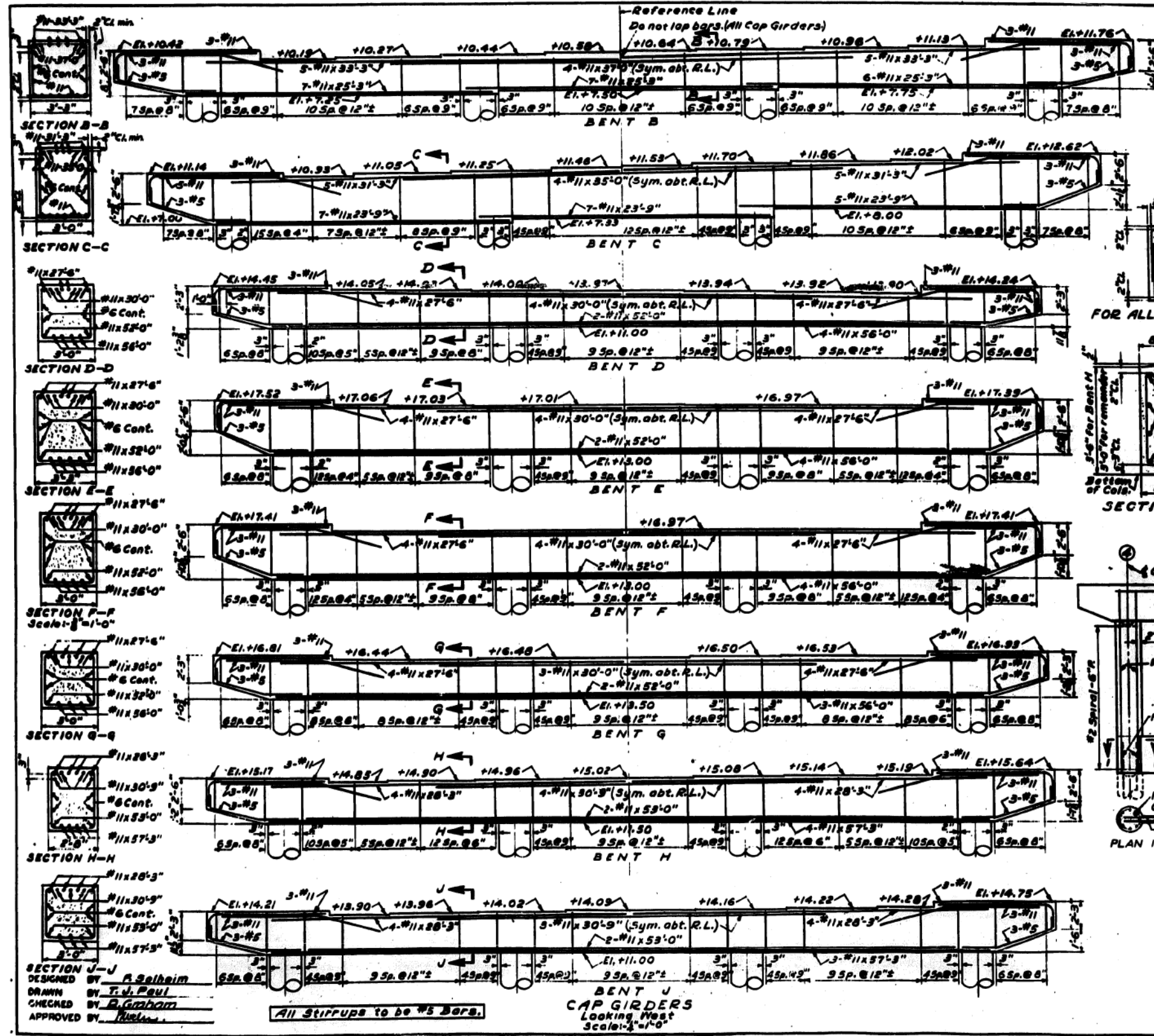
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-56 OF AB-68 SHEETS

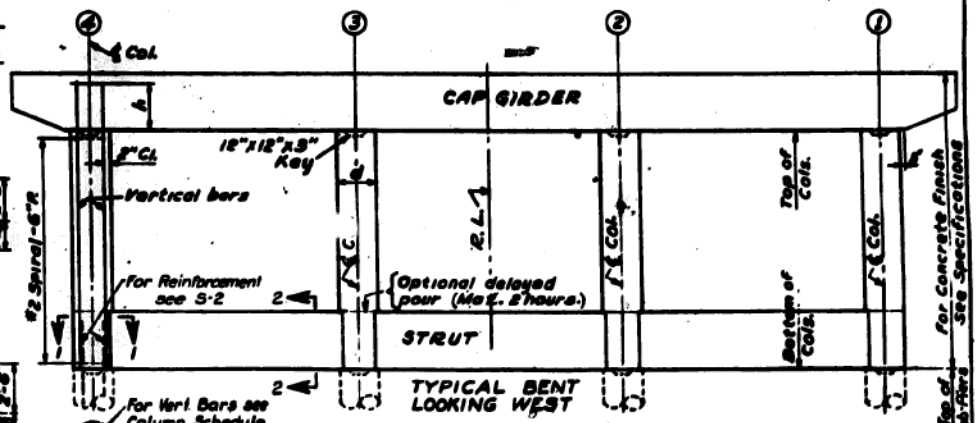
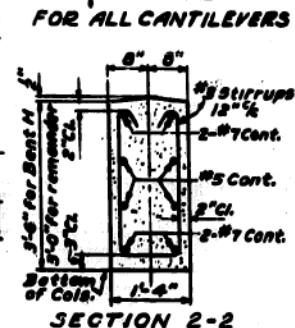
F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 324
CONTRACT NO. 60X99				ILLINOIS FED. AID PROJECT

FOR INFORMATION ONLY



DATE	REV.	BY	NO.	DESCRIPTION
P.A.I. 2/20/67	1	COOK	44	30

BENT NO.	LINE	ELEVATIONS		VERTICAL BARS	h	REMARKS
		Bottom	Top			
B	1	2'-6"	-3.75	+7.75	8-#9	2'-6"
	2	2'-6"	-3.75	+7.50	8-#9	2'-6"
	3	2'-6"	-3.75	+7.25	8-#9	2'-6"
	4	2'-6"	-3.75	+7.25	8-#9	2'-6"
C	1	2'-6"	-4.50	+8.00	8-#9	2'-6"
	2	2'-6"	-4.50	+7.75	8-#9	2'-6"
	3	2'-6"	-4.50	+7.00	8-#9	2'-6"
	4	2'-6"	-4.50	+7.00	8-#9	2'-6"
D	1	2'-6"	-0.50	+11.00	8-#9	2'-6"
	2	2'-6"	-0.50	+11.00	8-#9	2'-6"
	3	2'-6"	-0.50	+11.00	8-#9	2'-6"
	4	2'-6"	-0.50	+11.00	8-#9	2'-6"
E	1	2'-6"	-2.25	+12.00	8-#10	2'-6"
	2	2'-6"	-2.25	+12.00	8-#10	2'-6"
	3	2'-6"	-2.25	+12.00	8-#10	2'-6"
	4	2'-6"	-2.25	+12.00	8-#10	2'-6"
F	1	2'-6"	-3.75	+12.00	8-#9	2'-6"
	2	2'-6"	-3.75	+12.00	8-#9	2'-6"
	3	2'-6"	-3.75	+12.00	8-#9	2'-6"
	4	2'-6"	-3.75	+12.00	8-#9	2'-6"
G	1	2'-6"	-3.00	+12.50	8-#9	2'-6"
	2	2'-6"	-3.00	+12.50	8-#9	2'-6"
	3	2'-6"	-3.00	+12.50	8-#9	2'-6"
	4	2'-6"	-3.00	+12.50	8-#9	2'-6"
H	1	2'-6"	-2.00	+11.50	8-#9	2'-6"
	2	2'-6"	-2.00	+11.50	8-#9	2'-6"
	3	2'-6"	-2.00	+11.50	8-#9	2'-6"
	4	2'-6"	-2.00	+11.50	8-#9	2'-6"
J	1	2'-6"	+0.50	+11.00	8-#9	2'-6"
	2	2'-6"	+0.50	+11.00	8-#9	2'-6"
	3	2'-6"	+0.50	+11.00	8-#9	2'-6"
	4	2'-6"	+0.50	+11.00	8-#9	2'-6"



Notes:
 For Key Plan and General Notes see Sheet S-1
 For Sub-Piers see Sheet S-2
 For Plan of Cap Girders see Sheet S-3
 For Girder Bearings see Sheet S-9

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 VAN BUREN STREET BRIDGE
 SECTION 010.2-18
 CAP GIRDERS
 REINFORCEMENT

SCALE: AS NOTED SHEET NO. S-4 OF 44 SHEETS APRIL, 1967

DESIGNED BY: A. Seilheim
 DRAWN BY: T. J. Paul
 CHECKED BY: R. G. Gorman
 APPROVED BY: [Signature]

All Stirrups to be #5 Bars.

BENT J
 CAP GIRDERS
 Looking West
 Scale: 3/4"=1'-0"

3:07:38 PM 0160X59-SHT-AS-BUILT-57



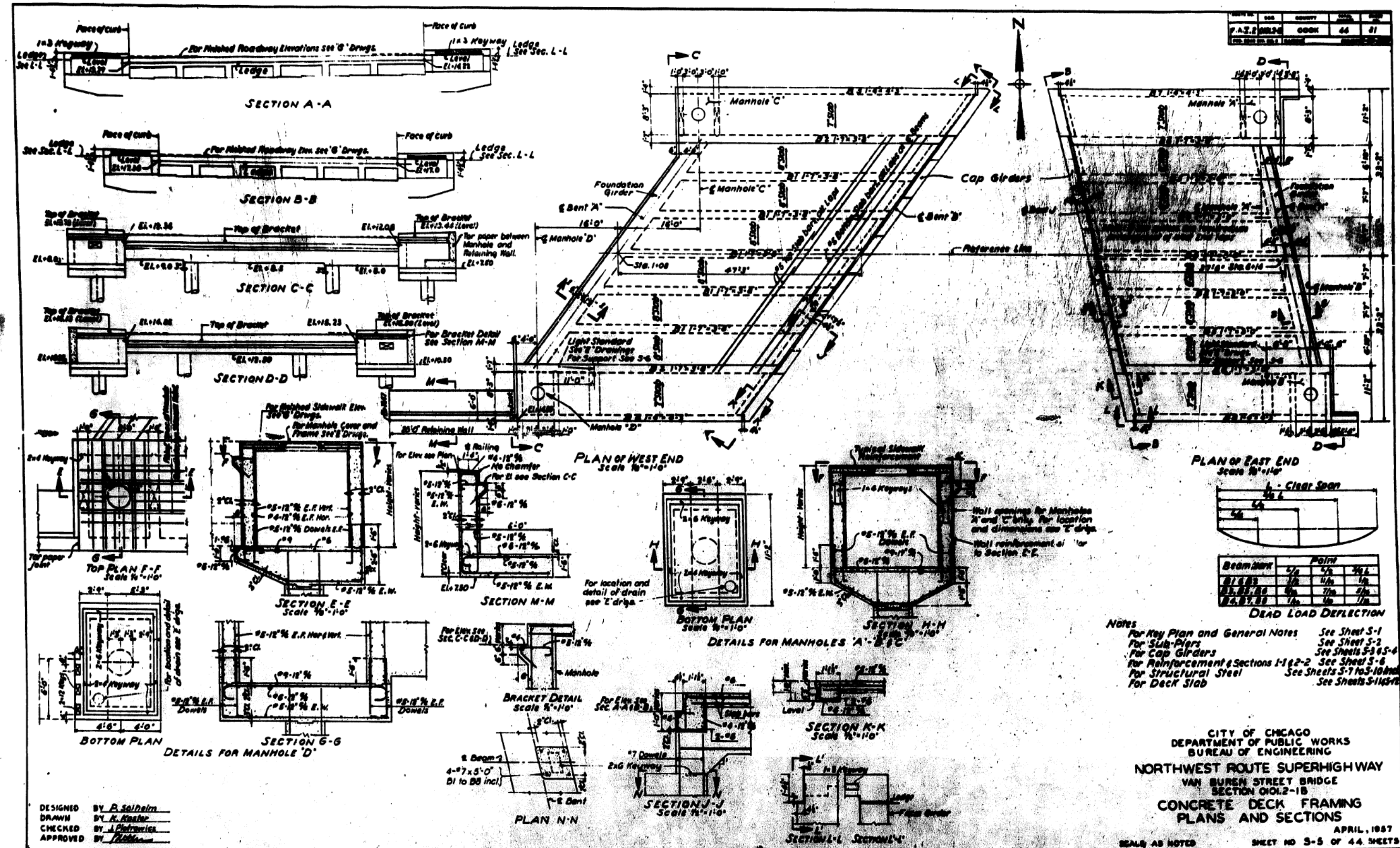
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	CHECKED WJC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-57 OF AB-68 SHEETS

F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 325
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



3:07:41 PM
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DESIGNED BY WJC
CHECKED BY DL
DRAWN BY RVV
CHECKED BY WJC
PLOT SCALE = 0.2:0.000 '1" / 1"
PLOT DATE = 12/15/2016

DESIGNED WJC
CHECKED DL
DRAWN RVV
CHECKED WJC
REVISED
REVISED
REVISED
REVISED

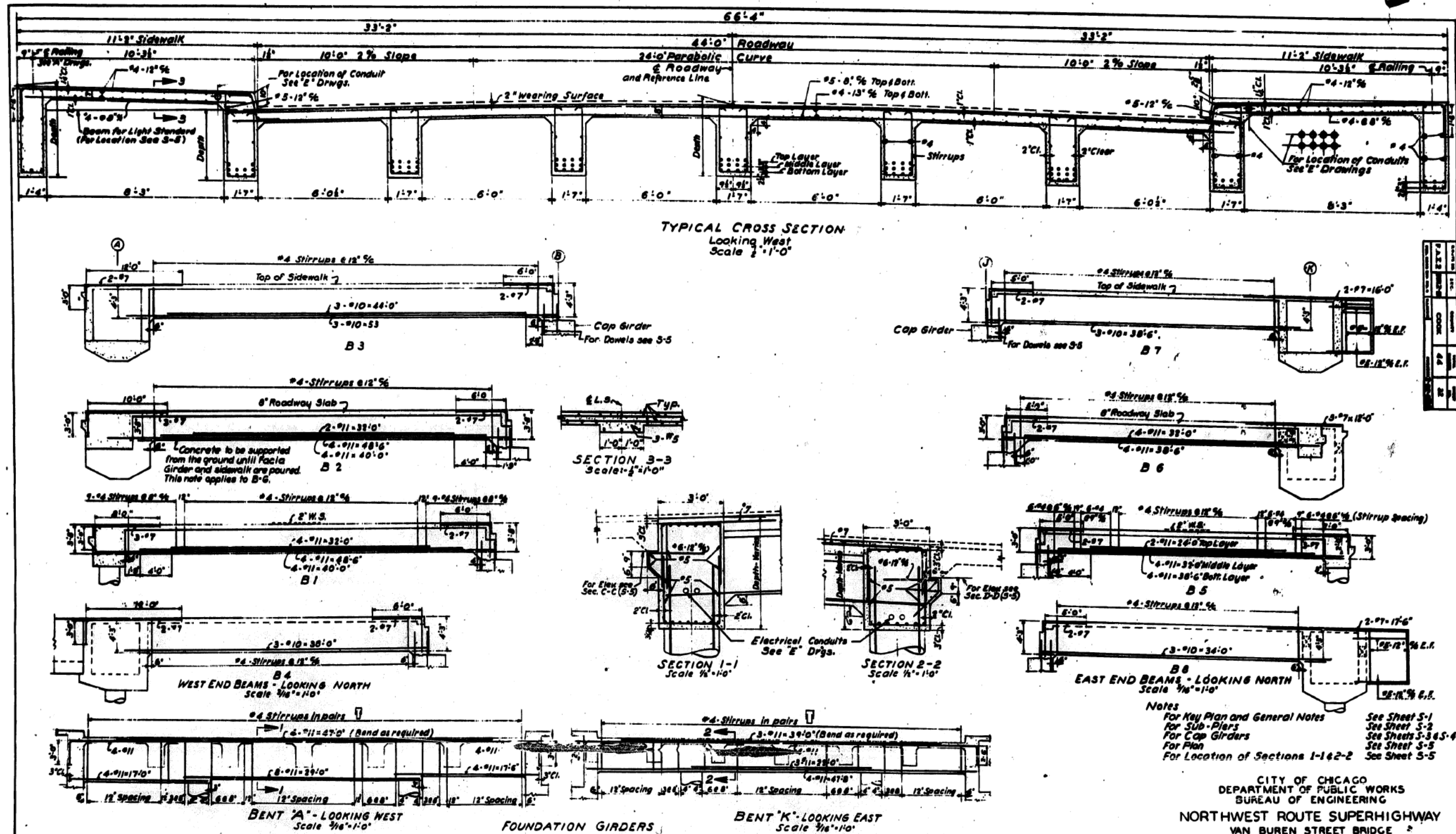
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-58 OF AB-68 SHEETS

F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 326
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



DESIGNED BY B. Sahelm
DRAWN BY K. Kasper
CHECKED BY R. Graham
APPROVED BY [Signature]

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 010.2-1B
CONCRETE DECK FRAMING
REINFORCEMENT
APRIL, 1957
SCALE AS NOTED SHEET NO 5-6 OF 44 SHEETS

3:07:44 PM
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	CHECKED WJC	REVISED

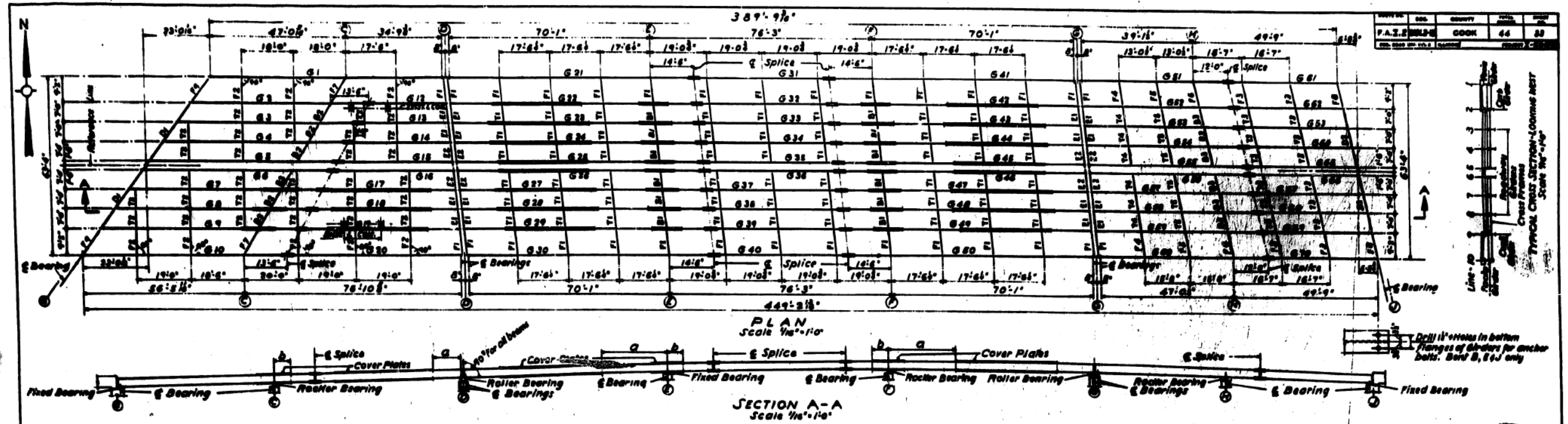
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-59 OF AB-68 SHEETS

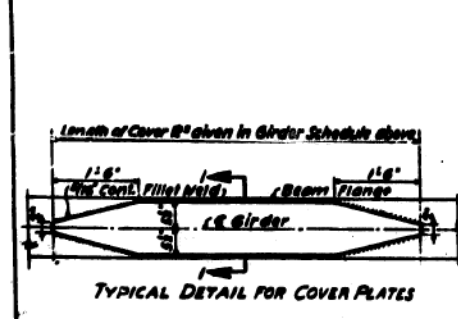
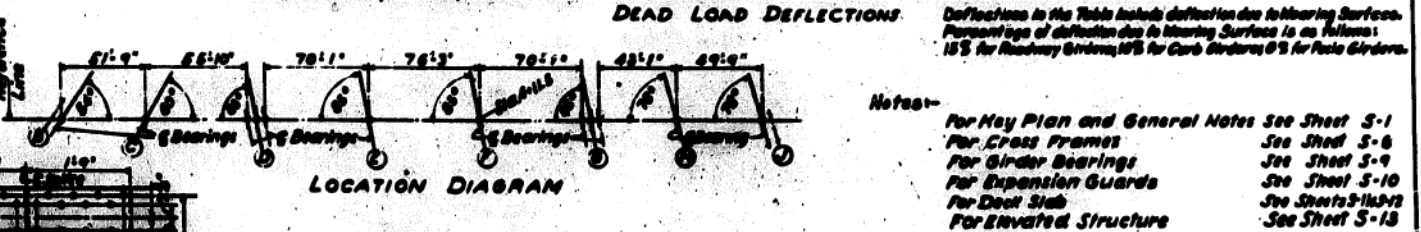
F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 327
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY

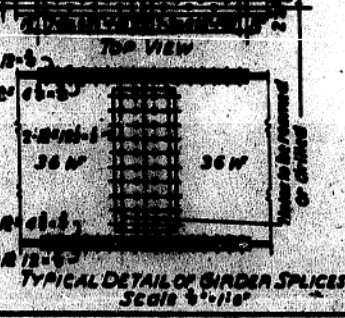


UNITS	MARK	BEAMS	COVER PLATES				REMARKS	
			BETWEEN SUPPORTS		AT SUPPORTS			
			SIZE	LENGTH	SIZE	LENGTH		
2 SPANS CONT. B-D	G1	36W 150						
	G2, G3, G4, G5, G6	150					For Cambering of G9 G10 & G30 see Schedule below.	
	G7	150			2-11/16"	11'6"	G8 natural camber down.	
	G8, G10, G11, G12, G13, G14	150					Remainder - natural camber up.	
	G15, G16	150	3-11/16"	34'6"	10'8"			
3 SPANS CONT. D-E	G17, G18	170						
	G19	170	3-11/16"	34'6"	19'8"			
	G20	170						
	G21, G22, G23, G24, G25, G26, G27, G28, G29	170	3-11/16"	37'0"	28'6"	3-11/16"	10'10"	For Cambering see Schedule below.
	G31, G32, G33, G34, G35, G36, G37, G38, G39	170	3-11/16"	38'0"	23'0"	3-11/16"	11'0"	
2 SPANS CONT. G-J	G40, G41, G42, G43, G44, G45, G46, G47, G48, G49	180					For Cambering of G41, G42 G43 & G44 see Schedule below. For remainder natural camber up.	
	G50, G51	180						
	G52, G53	36W 150						
	G54, G55	150						
	G56, G57	150						

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
North Face Girder Line 1	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
North Curb Girder "	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
Roadway Girder "	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
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South Curb Girder "	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"
South Face Girder Line 10	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"	1/16"



UNITS	GIRDER MARK	L	C	REMARKS
2-Span	G9	69'-1 3/4"	3 3/4"	Camber down
B-D	G70	70'-8 1/2"	2 3/4"	
	G30	65'-10 1/4"	1 3/4"	Camber up
2-Span D-E	G21 to G30 incl.	68'-4 3/4"	3 3/4"	
	G31 to G40 incl.	67'-9 1/4"	1 3/4"	
	G41 to G50 incl.	65'-1 3/4"	3 3/4"	
2-Span G-J	G51	61'-7 1/4"	1 3/4"	
	G52	65'-8 1/4"	1 3/4"	
	G53	65'-8 1/4"	1 3/4"	

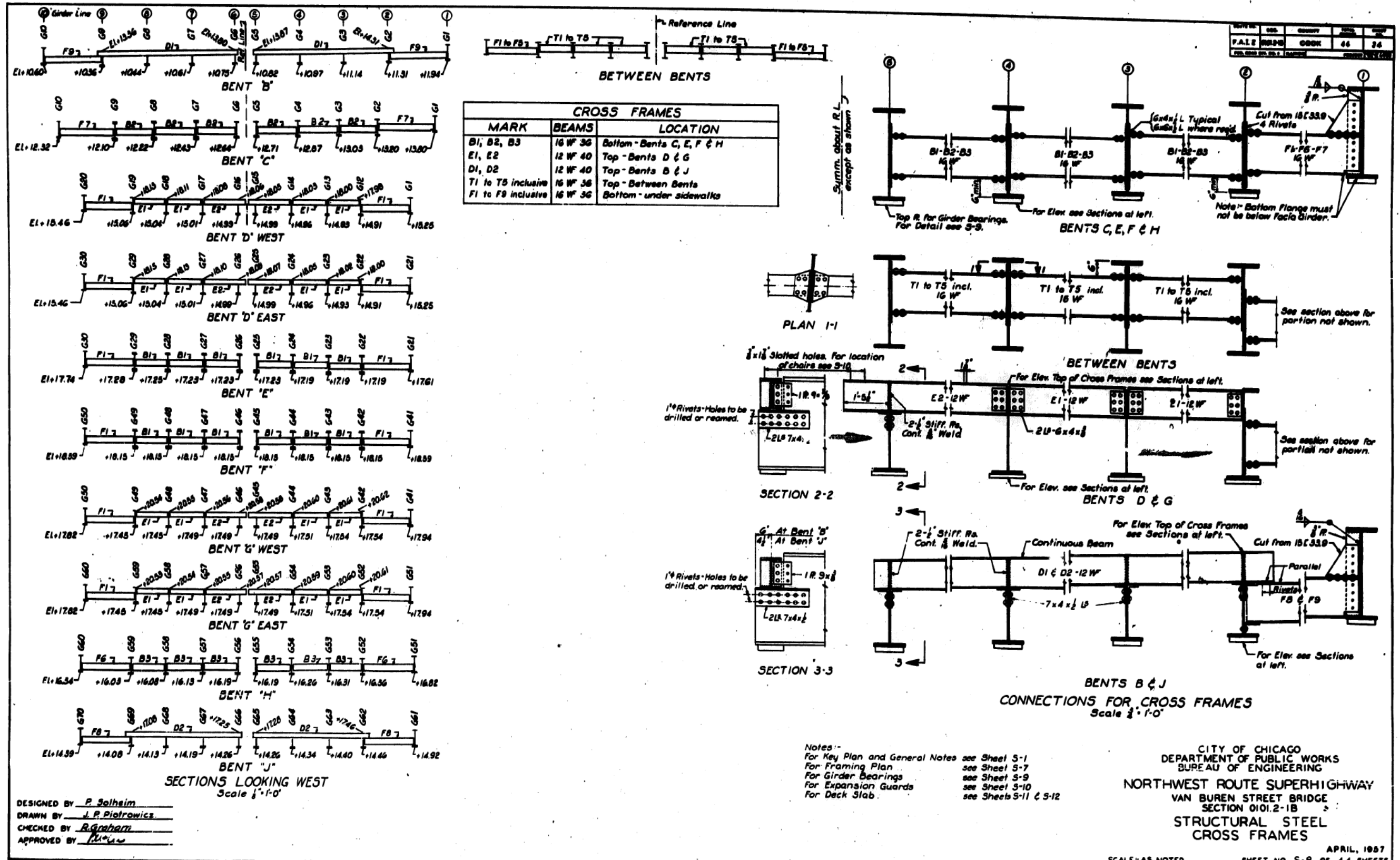


DESIGNED BY D. Salheim
 DRAWN BY K. Krieger
 CHECKED BY B. Boham
 APPROVED BY [Signature]

Notes:
 For Key Plan and General Notes See Sheet S-1
 For Cross Frames See Sheet S-6
 For Girder Bearings See Sheet S-9
 For Expansion Guards See Sheet S-10
 For Deck Slab See Sheets S-10 & S-12
 For Elevated Structure See Sheet S-13

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 VAN BUREN STREET BRIDGE
 SECTION 0101.2-18
 STRUCTURAL STEEL
 FRAMING PLAN
 APRIL, 1957
 SCALE-AS NOTED SHEET NO. 57 OF 44 SHEETS

FOR INFORMATION ONLY



DESIGNED BY P. Solheim
 DRAWN BY J. P. Piotrowicz
 CHECKED BY R. Graham
 APPROVED BY [Signature]

Notes:-
 For Key Plan and General Notes see Sheet S-1
 For Framing Plan see Sheet S-7
 For Girder Bearings see Sheet S-9
 For Expansion Guards see Sheet S-10
 For Deck Slab see Sheets S-11 & S-12

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 VAN BUREN STREET BRIDGE
 SECTION 0101.2-1B
 STRUCTURAL STEEL
 CROSS FRAMES

SCALE - AS NOTED SHEET NO. S-8 OF 44 SHEETS

3/07/151 PM 0160X99-SHT-AS-BUILT-61



USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0x2.0000 "1" / in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

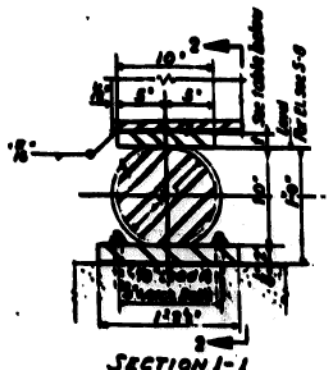
EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-61 OF AB-68 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	329
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

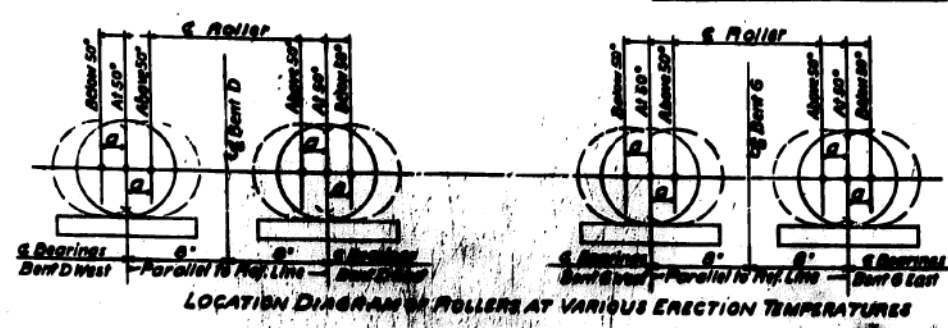
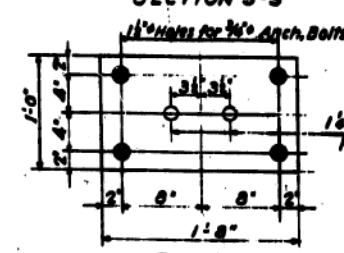
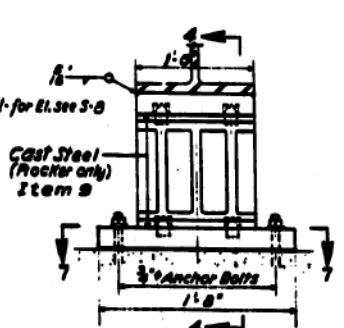
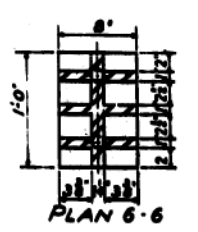
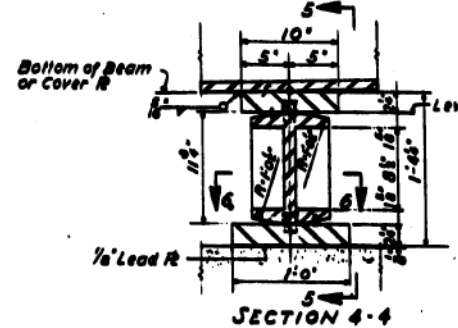
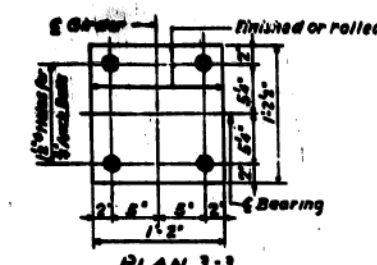
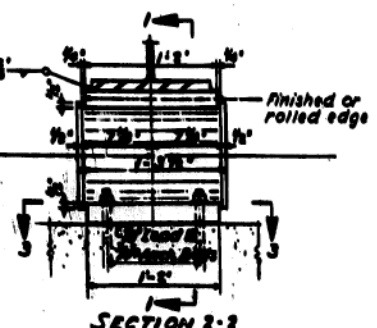
FOR INFORMATION ONLY

REV. NO.	DATE	DESCRIPTION	BY	CHKD.
1	11/15/54	ISSUED FOR CONSTRUCTION	J.P.	J.P.



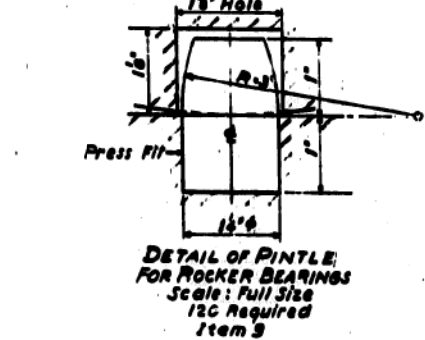
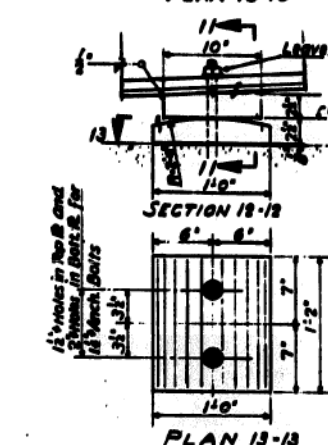
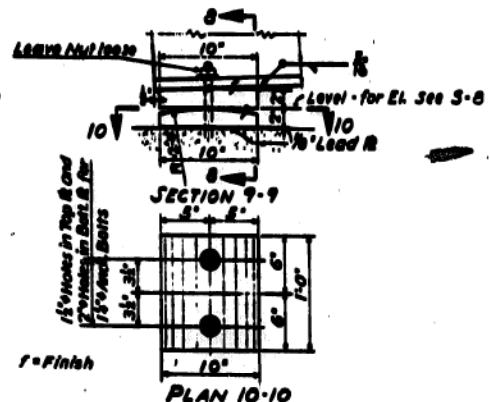
TOP R FOR ROLLER BEARINGS

GIRDER MARK	Dimension F
D 31	2 1/2"
G 30	2 3/4"
D 41	1 3/4"
G 30	1 3/4"
Remainder	1 3/4"

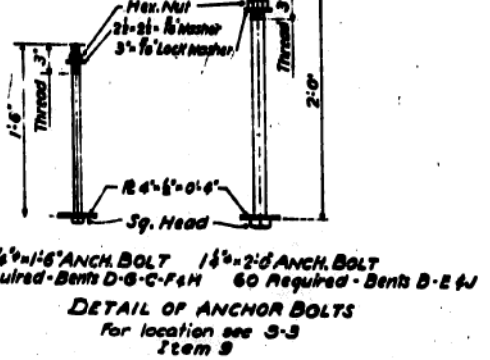
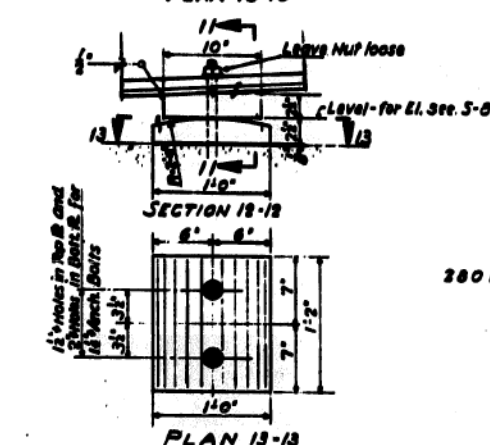
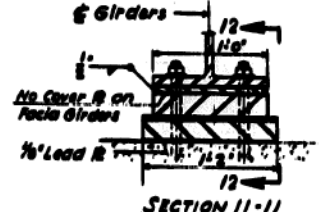


TEMPERATURE AT TIME OF ERECTION	DIMENSION IN INCHES (AVERAGE SPANS)			
	BENT D WEST	BENT D EAST	BENT G WEST	BENT G EAST
0°F	5"	7"	4"	5"
10°F	5"	7"	4"	5"
20°F	5"	7"	4"	5"
30°F	5"	7"	4"	5"
40°F	5"	7"	4"	5"
50°F	5"	7"	4"	5"
60°F	5"	7"	4"	5"
70°F	5"	7"	4"	5"
80°F	5"	7"	4"	5"
90°F	5"	7"	4"	5"
100°F	5"	7"	4"	5"

Note: For temperatures other than given in table, interpolate between values given



Note
Top R for Roller, Rocker and Fixed Bearings to be beveled and finished. Top of R to slope same as bottom of Girders. Bottom of all Top R to be level.



3/4" x 1-6" ANCH. BOLT 1 1/2" x 2-6" ANCH. BOLT
280 Required - Bents D-G-C-F-H 60 Required - Bents B-E-J

Notes
For Key Plan & General Notes see Sheet S-1
For Framing Plan see Sheet S-7
For Cross Frames see Sheet S-8
For Expansion Guards see Sheet S-10
For Deck Slab see Sheets S-11&S-12

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B
**STRUCTURAL STEEL
GIRDER BEARINGS**

SCALE: AS NOTED SHEET NO. 5-9 OF 44 SHEETS APRIL, 1957

DESIGNED BY: P. Solheim
DRAWN BY: K. Kasper
CHECKED BY: J. Piotrowski
APPROVED BY: [Signature]

3:07:54 PM
D:\60X99-5HT-AS-BUILT-62



USER NAME = mkwilson	DESIGNED WJC	REVISED
PLOT SCALE = 0.2:0.0000 '1" / 1/2" in.	CHECKED DL	REVISED
PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

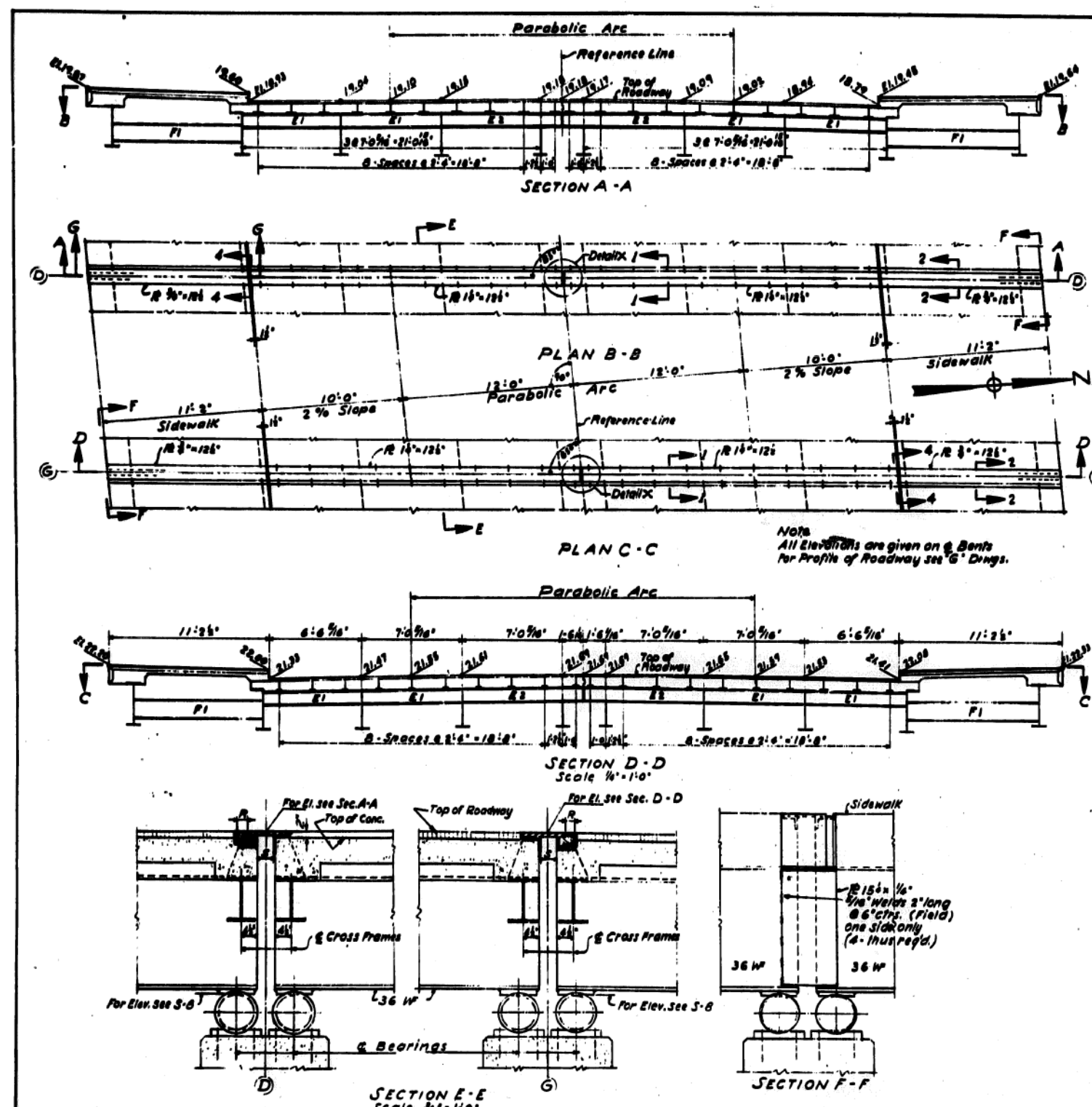
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-62 OF AB-68 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	330
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

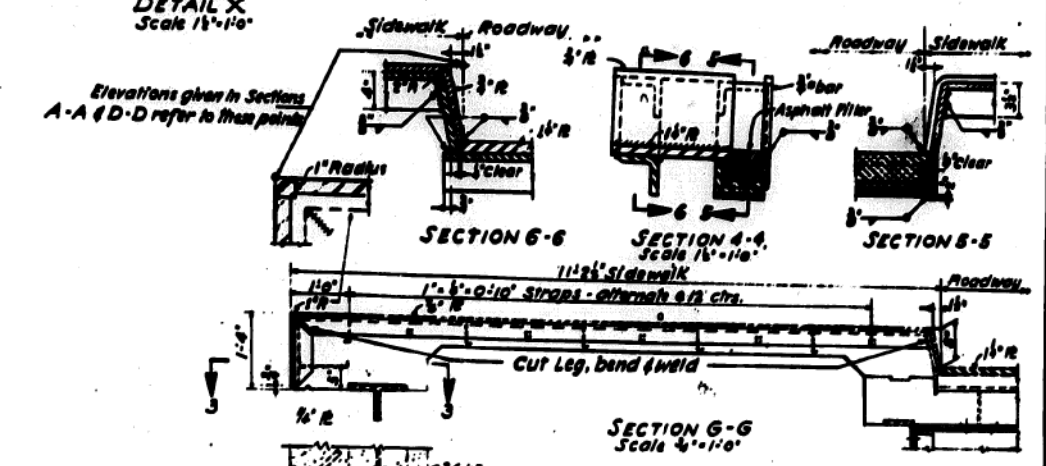
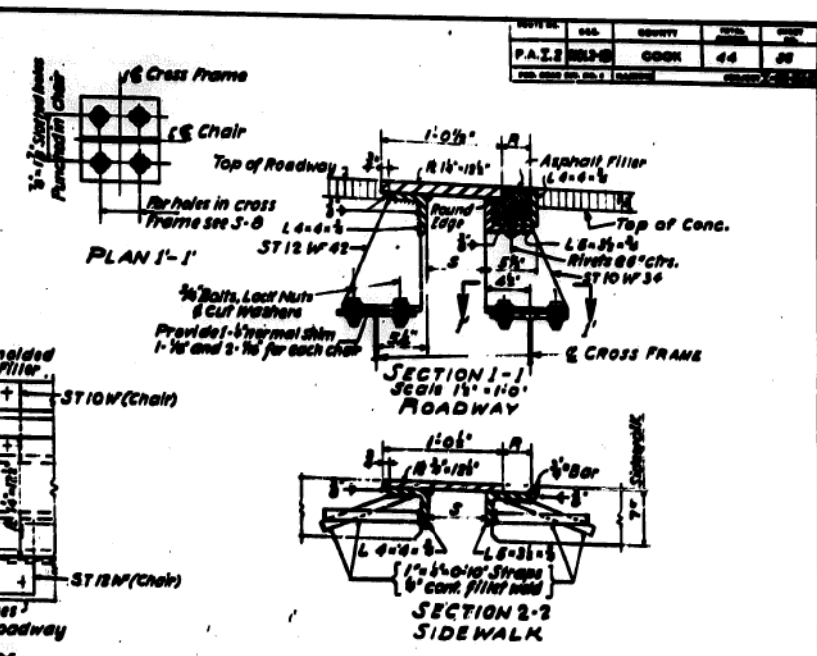
FOR INFORMATION ONLY



Values of R and S to be used for erection

Temp	Bent D		Bent G	
°	R	S	R	S
0	2 1/2	5 1/2	3	6
+25	2 3/8	5 3/8	2 1/2	5 1/2
+50	2	5	2	5
+75	1 3/4	4 1/2	1 1/2	4 1/2
+100	1 1/2	4 1/4	1 1/4	4 1/4

For temperatures other than given in table, interpolate between values given.



DESIGNED BY R. Salheim
 DRAWN BY K. Kuster
 CHECKED BY J. Piotrowski
 APPROVED BY [Signature]

Notes
 For Key Plan & General Notes See Sheet S-1
 For Framing Plan See Sheet S-7
 For Cross Frames See Sheet S-8
 For Girder Bearings See Sheet S-9
 For Deck Slab See Sheets S-11&12
 All work and material billed on this sheet to be paid for under Item 3.

CITY OF CHICAGO
 DEPARTMENT OF PUBLIC WORKS
 BUREAU OF ENGINEERING
 NORTHWEST ROUTE SUPERHIGHWAY
 VAN BUREN STREET BRIDGE
 SECTION 0101.2-1B
 STRUCTURAL STEEL
 EXPANSION GUARDS
 APRIL, 1957
 SCALE AS NOTED SHEET NO. 5-10 OF 44 SHEETS

3:07:57 PM 0160X99-SHT-AS-BUILT-63



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PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
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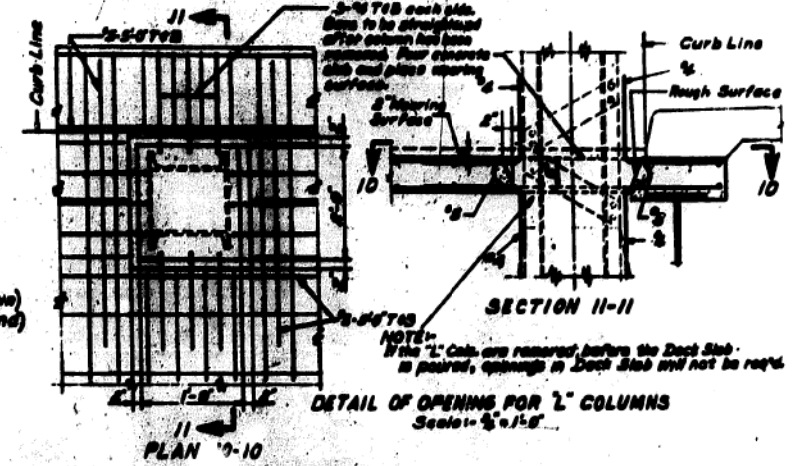
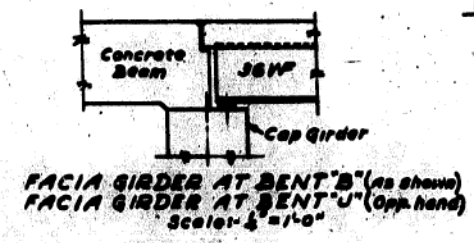
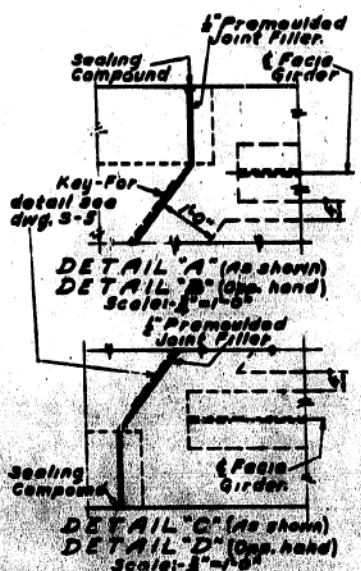
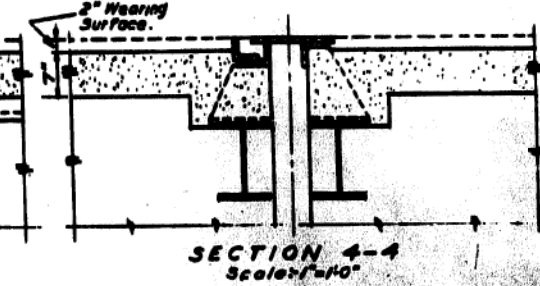
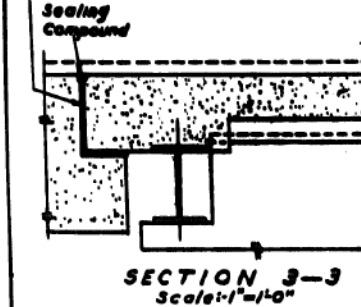
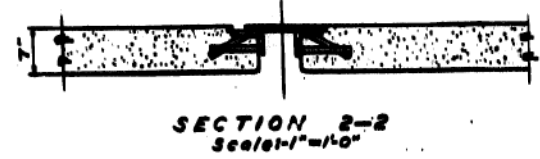
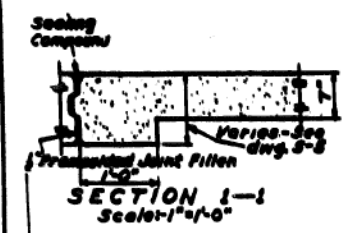
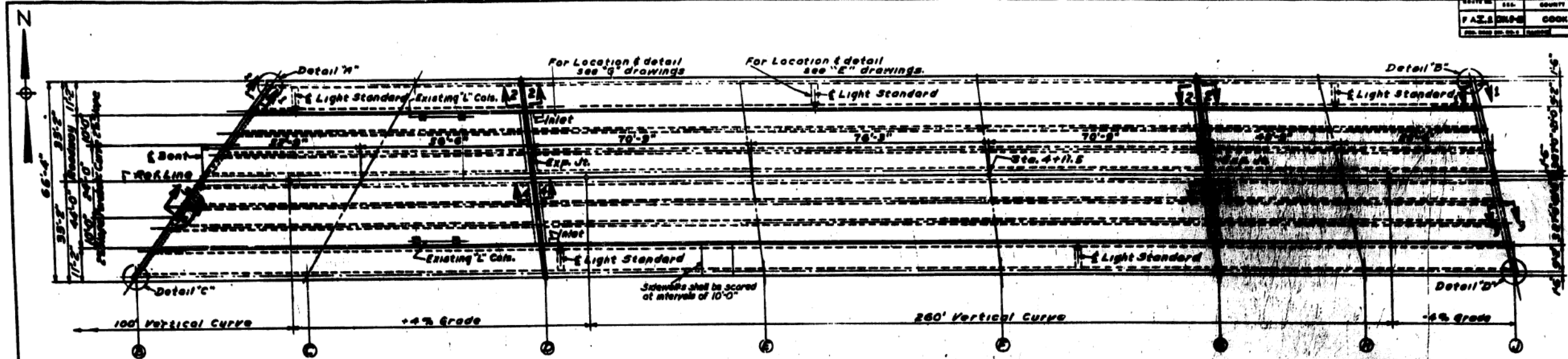
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707
 SHEET NO. AB-63 OF AB-68 SHEETS

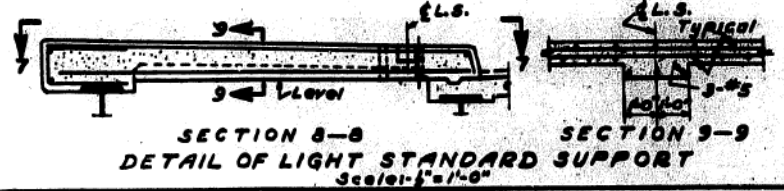
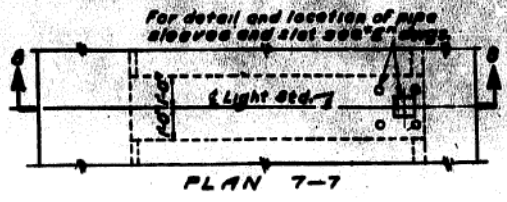
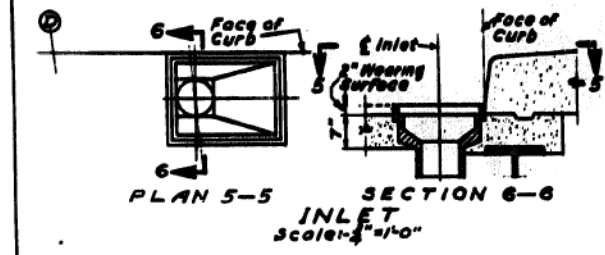
F.A.I. R.T.E. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 331
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	

FOR INFORMATION ONLY

STATE	COUNTY	SECTION	SHEET NO.
ILLINOIS	COOK	14	37



NOTES:
For Key Plan and General Notes See Sheet 8-1
For Concrete Deck Framing See Sheets 8-5 & 8-6
For Structural Steel See Sheets 8-7 to 8-10 incl.
For Deck Slab Reinforcement See Sheet 8-12
For Alterations of Elevated Structure See 8-13



DESIGNED BY F. Solheim
DRAWN BY J. Paul
CHECKED BY J. Piotrowski
APPROVED BY [Signature]

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 010.2-1B
DECK SLAB
PLAN AND SECTIONS
APRIL, 1957
SCALE AS NOTED SHEET NO 5-11 OF 44 SHEETS

3:08:00 PM
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PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

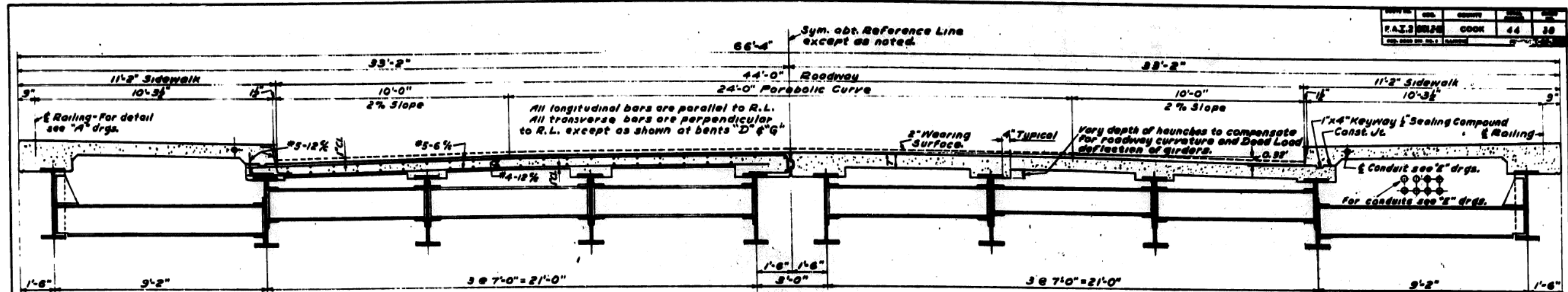
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

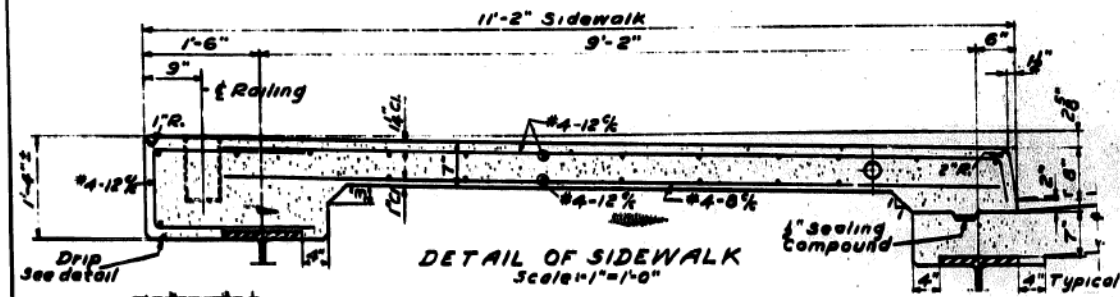
SHEET NO. AB-64 OF AB-68 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 332
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

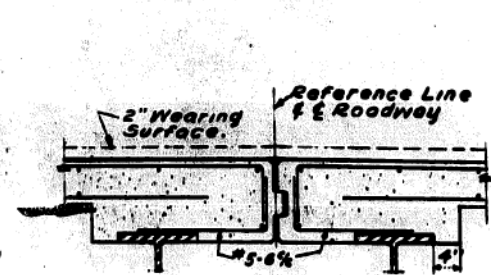
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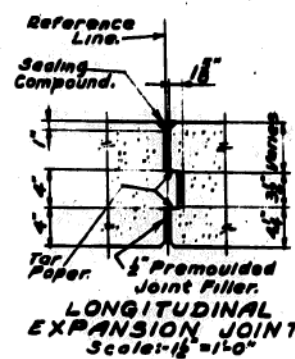
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LOOKING WEST
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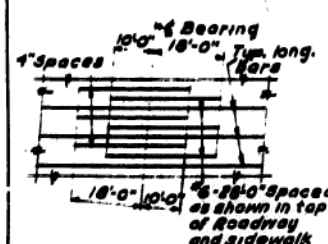
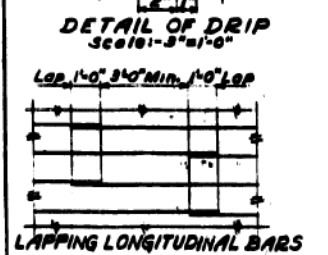
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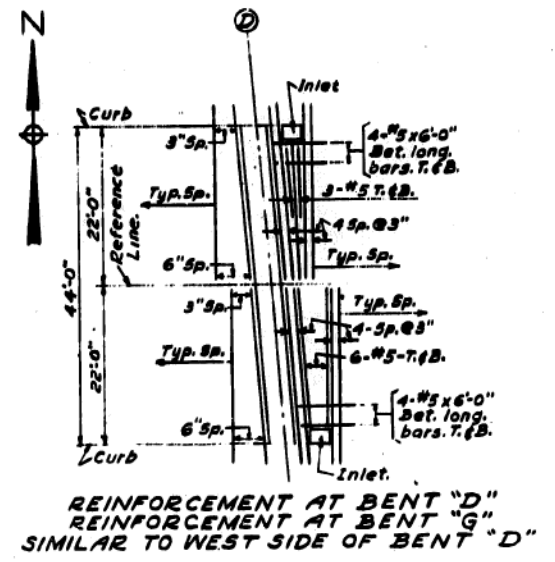
DETAIL AT ROADWAY
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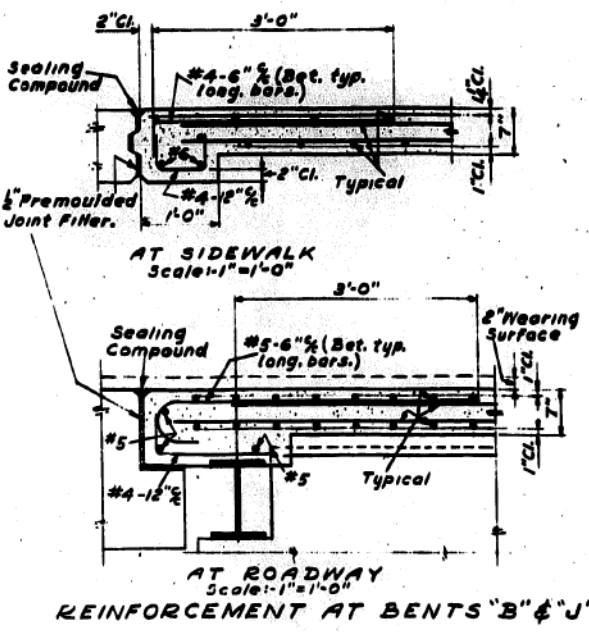
LONGITUDINAL
EXPANSION JOINT
Scale: 1/2" = 1'-0"



ADDITIONAL LONGITUDINAL
REINFORCING-BENTS C, E, F
AND H.



REINFORCEMENT AT BENT "D"
REINFORCEMENT AT BENT "G"
SIMILAR TO WEST SIDE OF BENT "D"



REINFORCEMENT AT BENTS "B" & "J"

NOTES:-
For Key Plan and General Notes See Sheet S-1
For Concrete Deck Framing See Sheets S-5 & S-6.
For Structural Steel See Sheets S-7 to S-10 incl.
For Plan of Deck Slab See Sheet S-11

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B
DECK SLAB
REINFORCEMENT

APRIL, 1957
SCALE: AS NOTED
SHEET NO 3-12 OF 4: SHEETS

DESIGNED BY F. Solheim
DRAWN BY T. J. Paul
CHECKED BY J. Polkowski
APPROVED BY [Signature]

3:08:03 PM
D:\60X99-SHT-AS-BUILT-65



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CHECKED DL	REVISED	
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PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

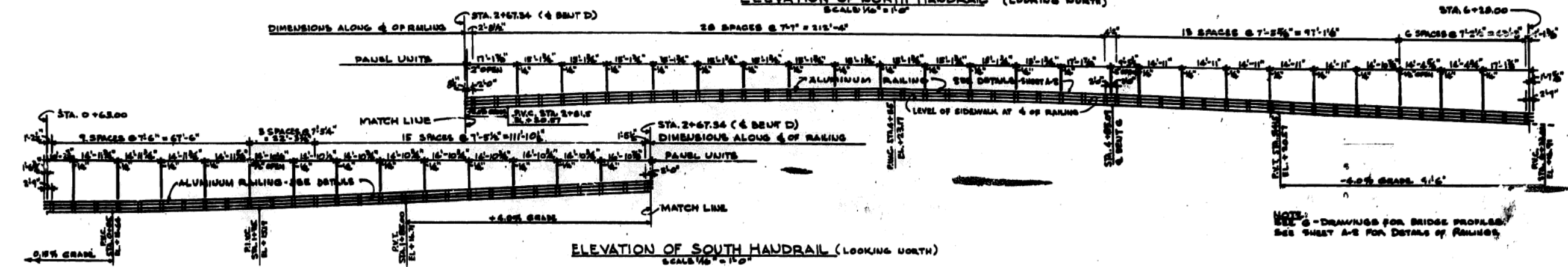
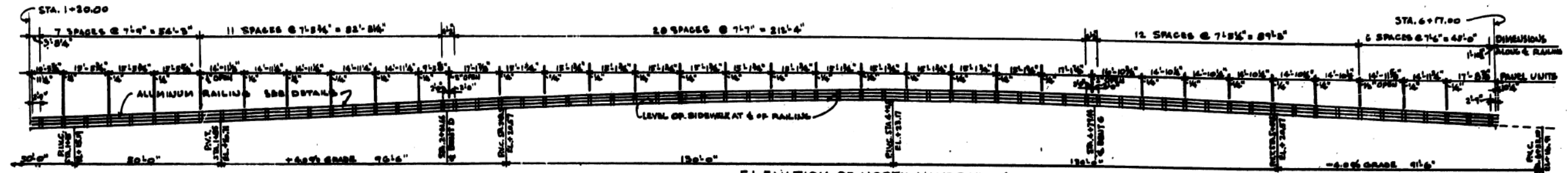
EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-65 OF AB-68 SHEETS

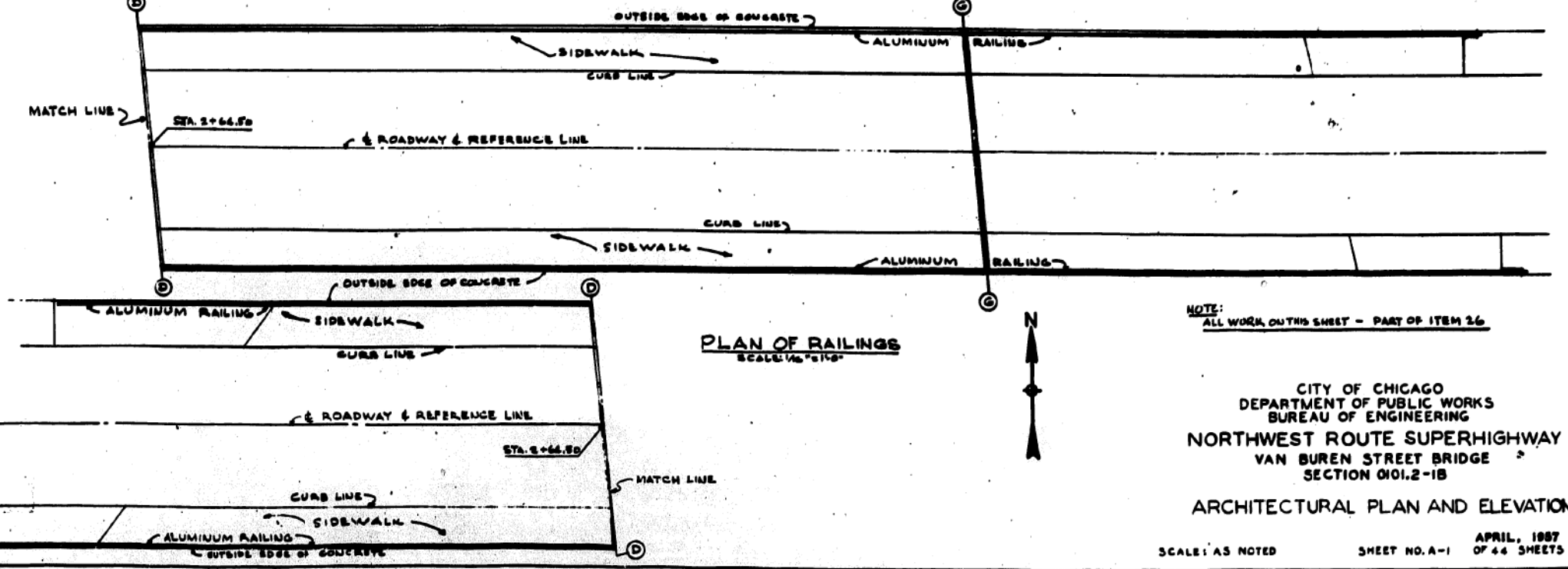
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	333
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

ROUTE	SECTION	COUNTY	SHEET NO.	TOTAL SHEETS
F.A.I. 90-94	290	COOK	44	40



GENERAL NOTE:
RAIL SHALL BE FABRICATED AND ERRECTED TO CONFORM TO VERTICAL CURVES AND GRADES OF ROADWAY.
RAIL UPRIGHTS SHALL BE TRULY VERTICAL. ALL EDGES AT THE ENDS OF EACH RAILING UNIT SHALL BE SLIGHTLY ROUNDED.
ALL ALUMINIUM IN CONTACT WITH CONCRETE, SHALL BE INSULATED FROM THE CONTACTING SURFACES BY ONE COAT OF ZINC CHROMATE PAINT.
WHERE ELASTIC ADHESIVE COMPOUND IS CALLED FOR THE CONTRACTOR MUST REMOVE THE LACQUER FROM THE METAL BEFORE APPLYING COMPOUND.



NOTE: ALL WORK ON THIS SHEET - PART OF ITEM 26

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B

ARCHITECTURAL PLAN AND ELEVATION
SCALE: AS NOTED
SHEET NO. A-1
APRIL, 1987
OF 44 SHEETS

Drawn by G. GREENH
Checked by [Signature]
Approved by [Signature] Architect

3:08:06 PM 01/06/99 5HT-AS-BUILT-66



USER NAME = mkwilson	DESIGNED WJC	REVISED
CHECKED DL	REVISED	
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PLOT DATE = 12/15/2016	CHECKED WJC	REVISED

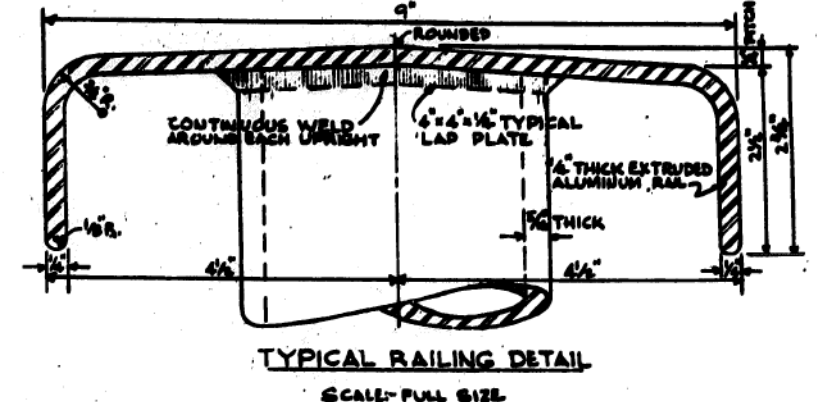
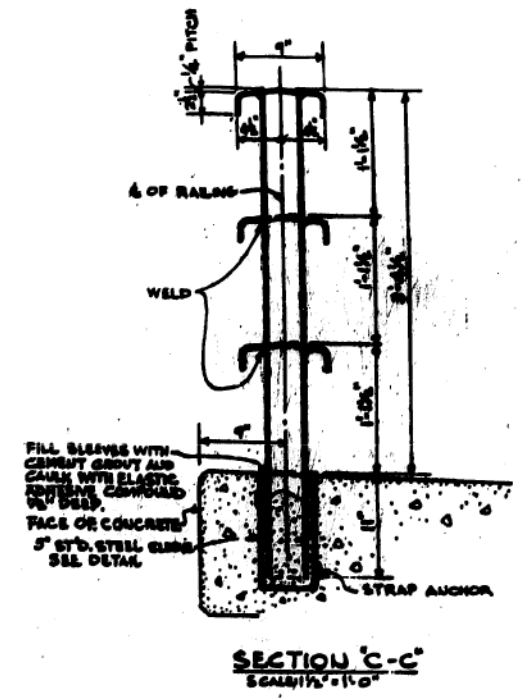
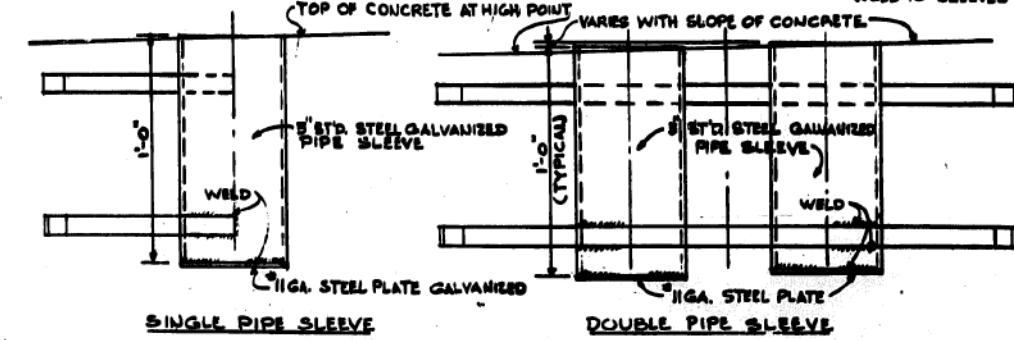
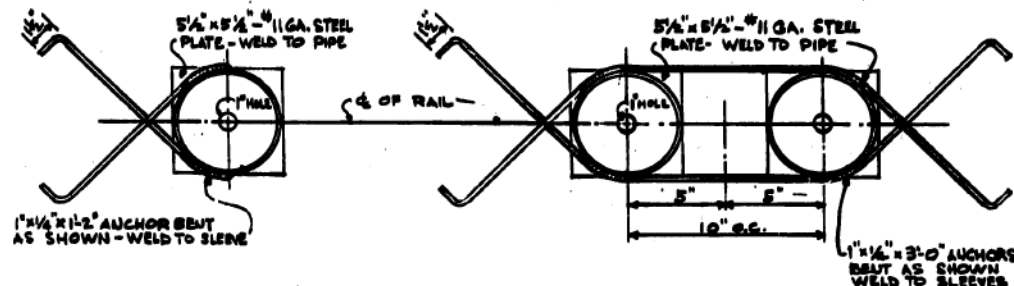
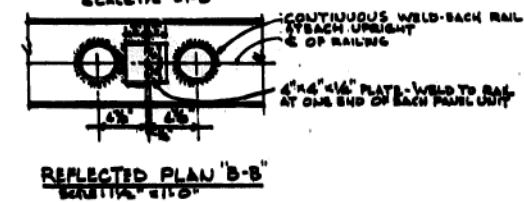
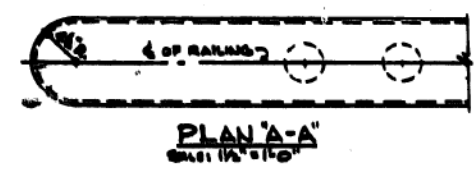
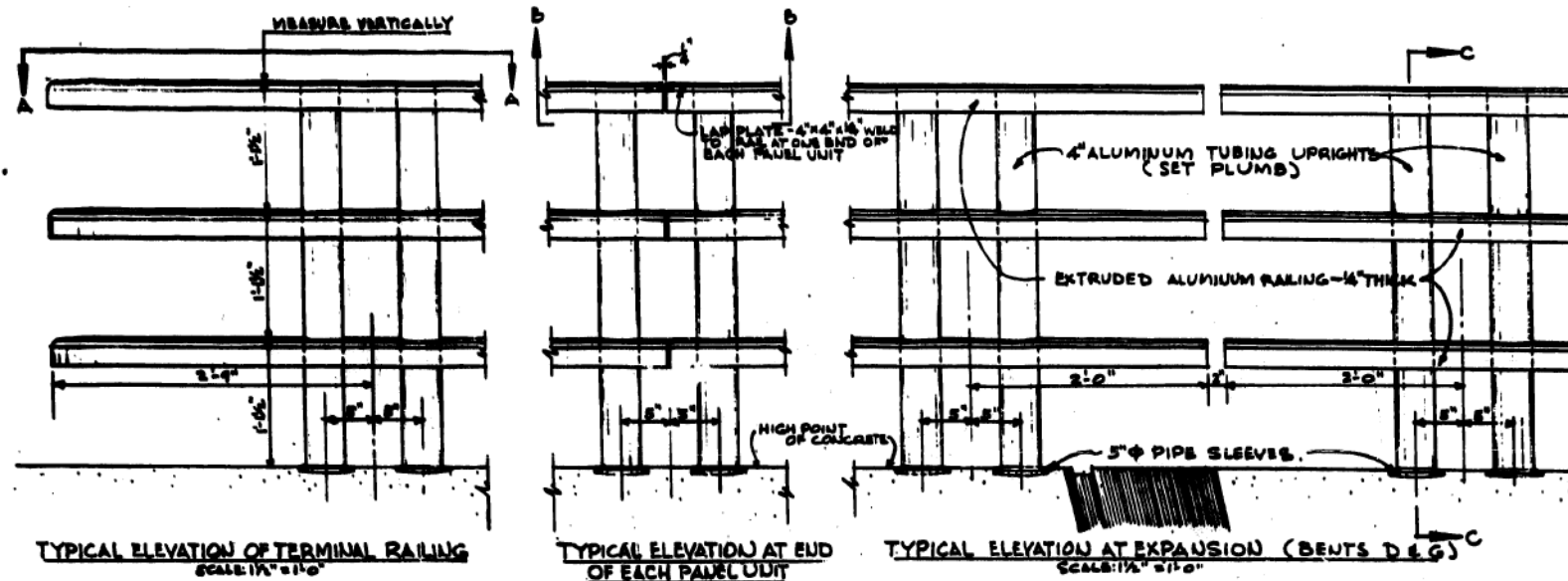
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-66 OF AB-68 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 334
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

FOR INFORMATION ONLY



NOTE: ALL WORK ON THIS SHEET - PART OF ITEM 24

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B
RAILING DETAILS

SCALE: AS NOTED SHEET NO. A-2 APRIL, 1987 OF 44 SHEETS

Drawn By: G. HARRISON
Checked By: J. BROWN
Approved By: D. J. HARRISON

3:08:10 PM
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PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-67 OF AB-68 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 335
				CONTRACT NO. 60X99
ILLINOIS FED. AID PROJECT				

FOR INFORMATION ONLY

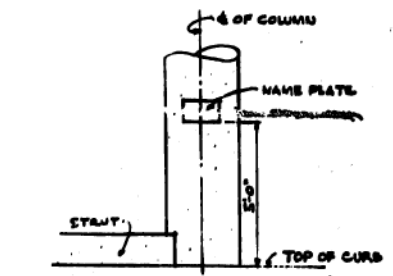
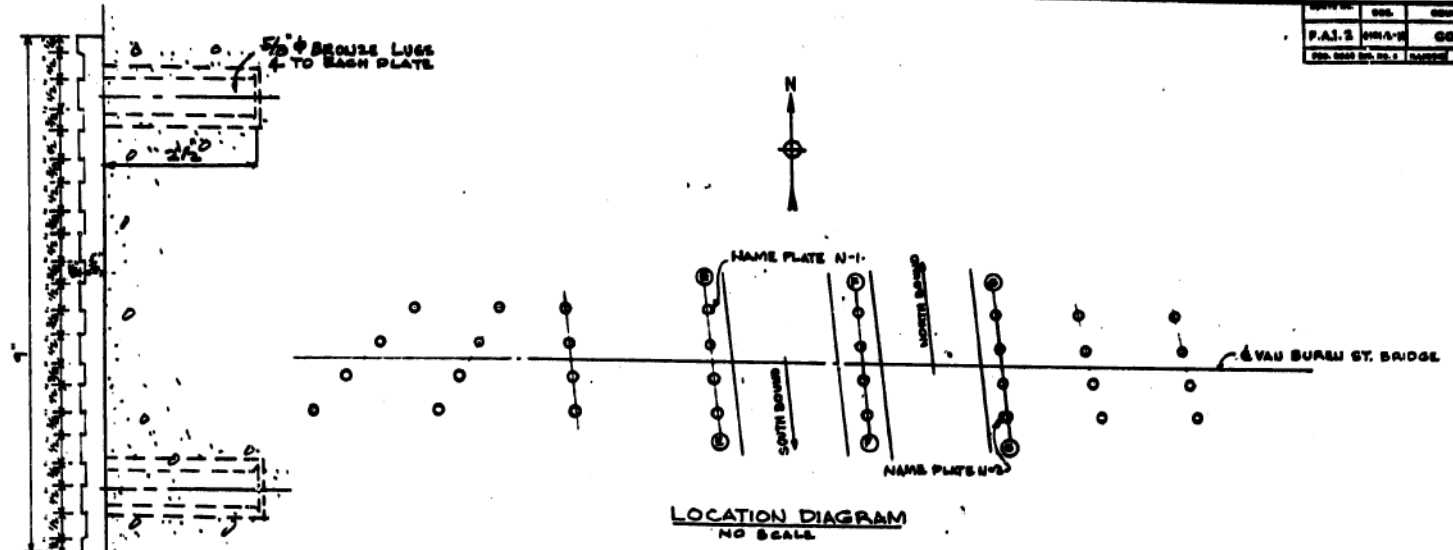
NORTHWEST ROUTE
EXPRESSWAY
AT
VAN BUREN STREET
F.A.I. ROUTE 2. SECTION 0101.2 - 1B
F.A.I. PROJECT 1-02-2(49)
STATION 18+28
LOADING H20-516-44
1957

15"
CURVE PLATE FOR MOUNTING ON 8" DIA. CONCRETE COLUMN
NAME PLATE N-1
SCALE 3/4" = 1"

BUILT BY
CITY OF CHICAGO
WITH THE CO-OPERATION OF
COUNTY OF COOK
STATE OF ILLINOIS
FEDERAL GOVERNMENT
1957

15"
CURVE PLATE FOR MOUNTING ON 8" DIA. CONCRETE COLUMN
NAME PLATE N-2
SCALE 3/4" = 1"

Drawn By...
Checked By...
Approved By...



NOTES:
NAME PLATES SHALL BE BEST QUALITY BRASS OR BRONZE. BORDERS, LETTERS AND FIGURES SHALL BE RAISED 1/8" SQUARE CUT AND NOT TAPERED; TOP SURFACE POLISHED TO SATIN FINISH. BACKGROUND SHALL HAVE MATTED FINISH. FOUR BRASS STUDS CAST ON BACK. FOUR ANCHOR LUGS SCREW INTO BOSS FOR MOUNTING.
LOCATION AND INSCRIPTION OF ALL SIGNS ARE NOT FINAL AND SUBJECT TO CHANGES UNTIL SHOP DRAWINGS ARE APPROVED. ALL WORK ON THIS SHEET IS PART OF ITEM 4-1.

CITY OF CHICAGO
DEPARTMENT OF PUBLIC WORKS
BUREAU OF ENGINEERING
NORTHWEST ROUTE SUPERHIGHWAY
VAN BUREN STREET BRIDGE
SECTION 0101.2-1B
NAME PLATES

SCALE: AS NOTED SHEET NO. A-5 OF 44 SHEETS APRIL, 1957

DATE	DES.	COUNTY	FILE	NO.
F.A.I. 9/14/57	COOK	44	42	

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PLOT DATE = 12/15/2016	DRAWN RVV	REVISED
	CHECKED WJC	REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AS-BUILTS SN 016-1707

SHEET NO. AB-68 OF AB-68 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	336
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

Bench Mark: Cut "X" at SE Corner of Van Buren and Halsted Streets. Elev. 593.24.

Existing Structure: None.

Traffic is to be maintained during construction.

LEGEND:

- Ex. Chain Link Fence — X — X —
- Electric — — — — —
- Ex. Storm Sewer — — — — —
- Prop. Storm Sewer — — — — —
- Soil Boring — — — — —
- Ex. Drainage — — — — —

CURVE DATA

(Ramp SW)
 Prop. Curve P-CIR-SW-3
 P.I. Sta. = 1322+16.98
 $\Delta = 83^\circ 35' 08''$ (RT)
 D = 10° 03' 07"
 R = 570.00'
 T = 509.51'
 L = 831.54'
 E = 194.53'
 e = 5.40%
 T.R. = NA
 S.E. Run = 101'
 P.C. Sta. = 1317+07.47
 P.T. Sta. = 1325+39.01

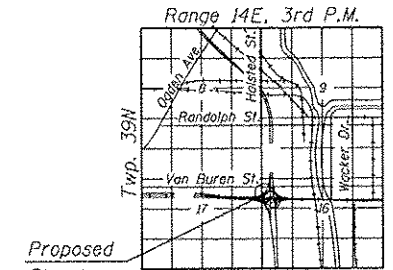
DESIGN SPECIFICATIONS

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

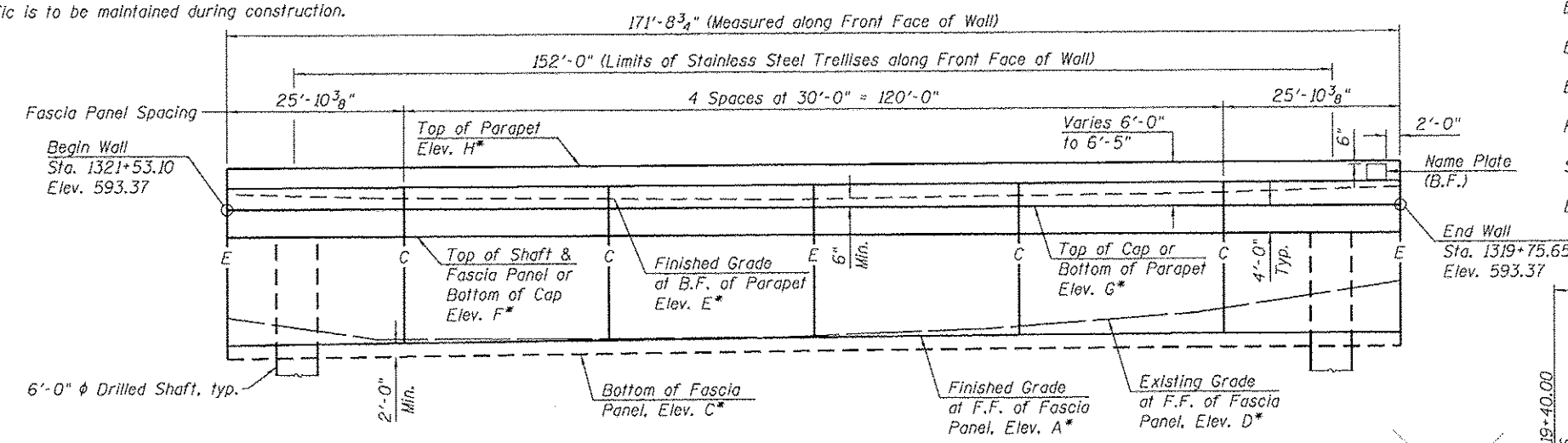
DESIGN STRESSES

FIELD UNITS

$f'_c = 7,000$ psi (Drilled Shafts)
 $f'_c = 3,500$ psi (All other concrete)
 $f_y = 60,000$ psi (Reinforcement)

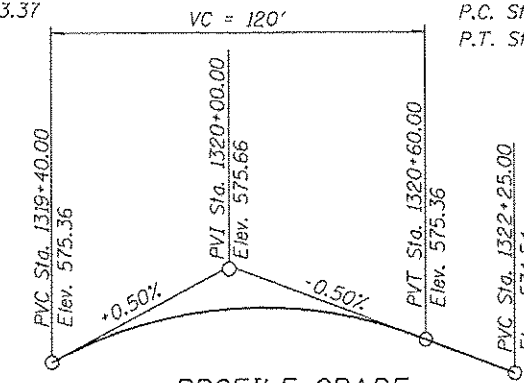


LOCATION SKETCH



ELEVATION

(Looking Northwest at F.F. of Wall)



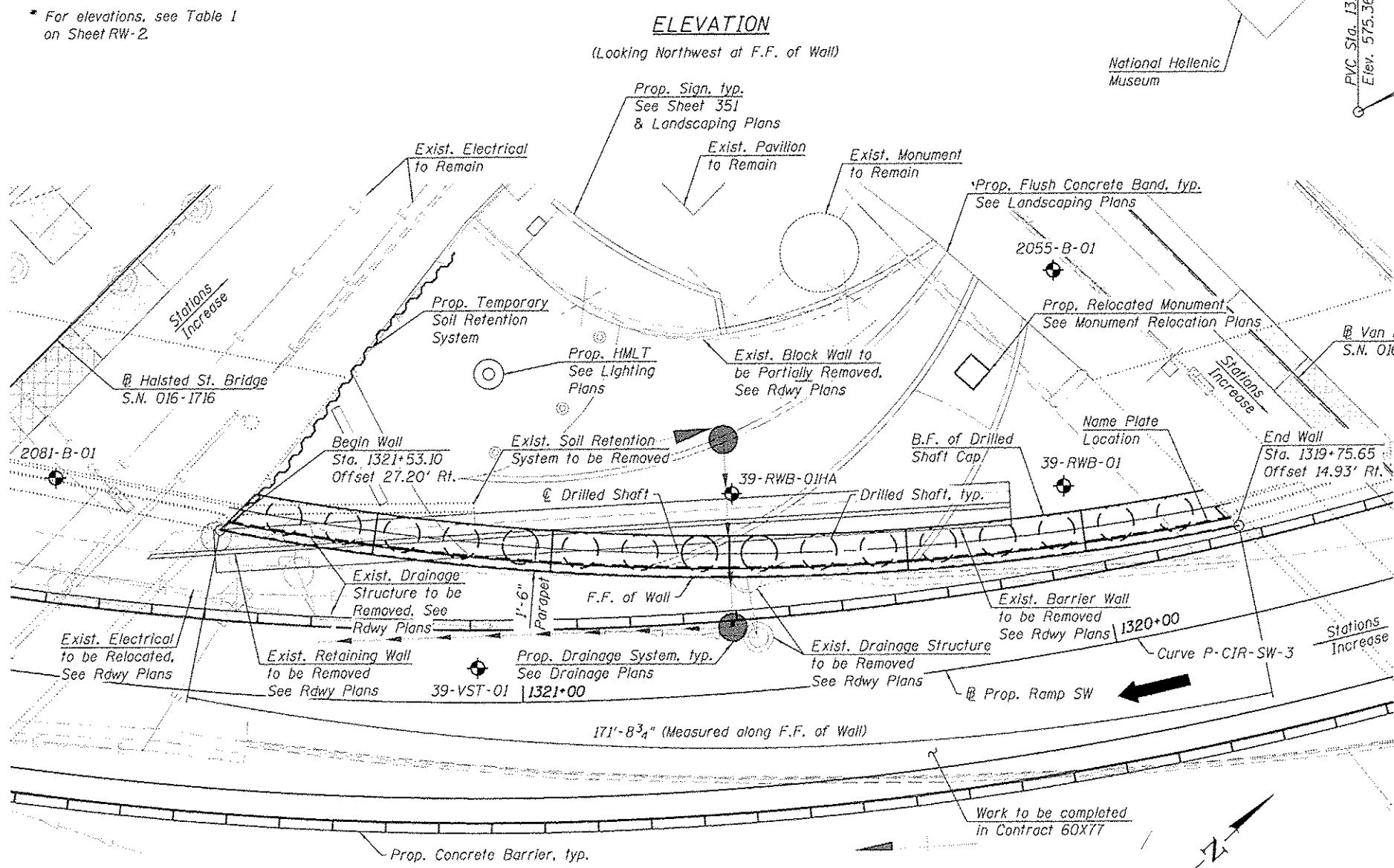
PROFILE GRADE
(Along Ramp SW)

Notes:

1. Wall offsets are measured from the centerline of Ramp SW to the front face of cast-in-place fascia panels.
2. C denotes Construction Joint
3. E denotes Expansion Joint
4. F.F. denotes Front Face.
5. B.F. denotes Back Face.
6. Stainless Steel Trellises to be installed on the face of the wall. For limits, see Elevation View. For details, see Typical Cross Section and SS Cable Wall Mount Unit Detail on Sheet RW-6.
7. See Sheet 139 for proposed drainage details.

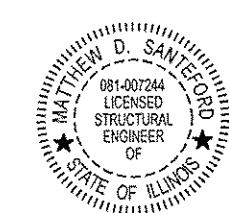
Table 2

Structure	Distance to F.F. Wall
Relocated Monument	32'-4 1/4"
Existing Monument	54'-2 3/8"
Existing Pavilion	75'-0"
National Hellenic Museum	81'-9"



PLAN

APPROVED
 For Structural Adequacy Only
 [Signature]
 Engineer of Bridges & Structures



4/24/17
 MATTHEW D. SANTEFORD, P.E., S.E.
 NO. 081-007244
 EXP. DATE 11/30/2018

GENERAL PLAN AND ELEVATION
RETAINING WALL 39 ALONG RAMP SW
F.A.I. RTE. 290 (EISENHOWER EXPRESSWAY)
SECTION 2014-017B
COOK COUNTY
STATION 1319+75.65 TO STATION 1321+53.10
STRUCTURE NO. 016-1808

3/24/17 RW-1 OF RW-10 SHEETS



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PLLOT SCALE = 24.0' / 1" =	CHECKED - DL	REVISD -
PLLOT DATE = 4/24/2017	DRAWN - TLR	REVISD -
	CHECKED - DL/WJC	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHEET NO. RW-1 OF RW-10 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	337
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

GENERAL NOTES

1. Reinforcement bars designated (E) shall be epoxy coated.
2. The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge and other loads applied to the structures will not have detrimental effects on the adjacent building and monument foundations. Driving piles and temporary sheet piling is not allowed.
3. Drilled shaft construction above existing grade shall not be paid separately but shall be included with Drilled Shaft in Soil.
4. Slipforming of parapets is not allowed.
5. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The Contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
6. The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the wall. Any damage to the existing utilities shall be the responsibility of the Contractor.
7. Concrete for the Drilled Shafts shall be in accordance with Section 516 of Standard Specifications and shall have the minimum compressive strength of 7,000 psi at 14 days.
8. Bars noted thus, 3x2-#5 indicates 3 lines of bars with 2 lengths per line.
9. Wall to be built along straight chords between construction and expansion joints.
10. Concrete Sealer shall be applied to the exposed top, front, and back faces of the parapet, and to the exposed front faces of cap and fascia panels.
11. Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shafts to an elevation above the top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor will not be compensated for issues related to the groundwater elevation.
12. Foundation Construction at Existing Obstructions applies to Shafts 6 through 13 only.

LEGEND:

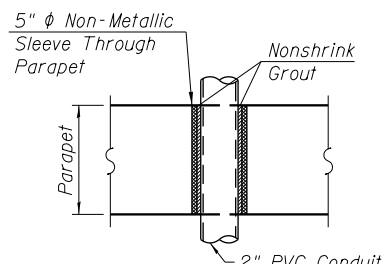
- B.F. - denotes Back Face.
- E.F. - denotes Each Face.
- F.F. - denotes Front Face.
- SS - denotes Stainless Steel.

STATION 1319+75.65 TO 1321+53.10
 BUILT 20__ BY
 STATE OF ILLINOIS
 F.A.I. RT. 90/94 SEC. 2014-017B
 LOADING HL-93
 STR. NO. 016-1808

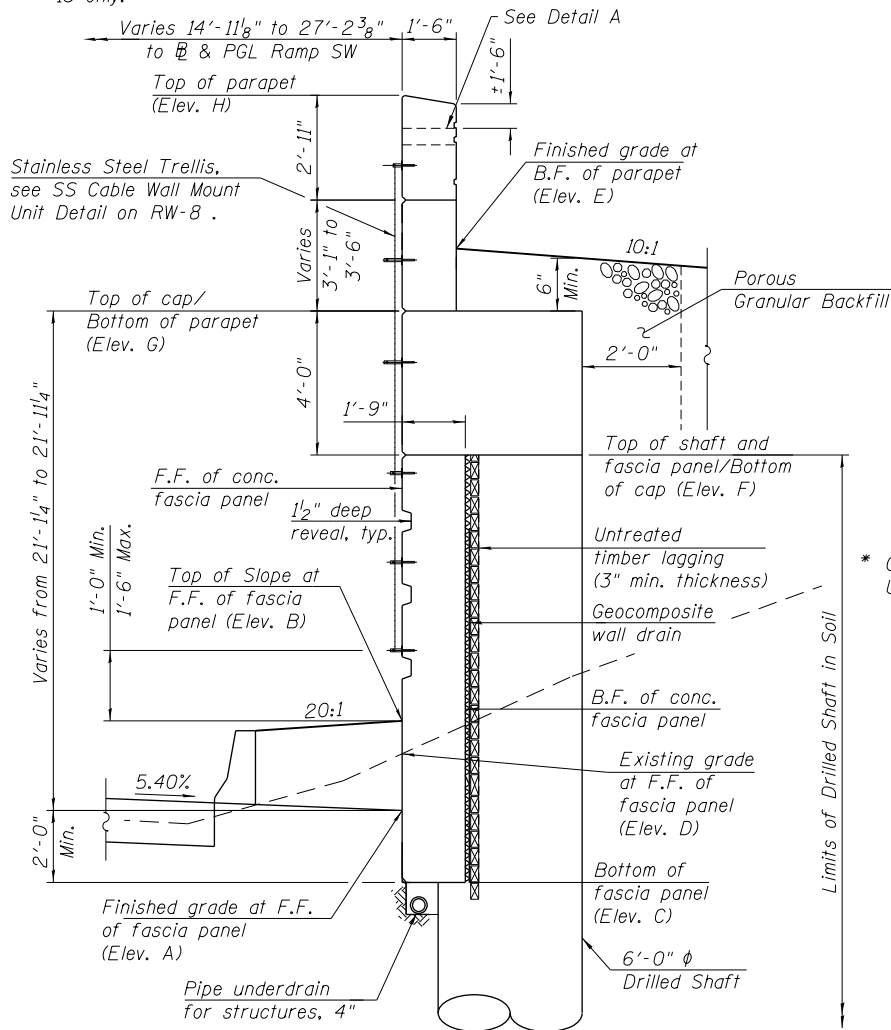
NAME PLATE
 See Std. 515001

INDEX OF SHEETS

- RW-1 General Plan & Elevation
- RW-2 Total Bill of Materials & General Notes
- RW-3 Wall Elevation Detail
- RW-4 Wall Sections & Details
- RW-5 Architectural Details I
- RW-6 Architectural Details II
- RW-7 Bar Splicer Assembly & Mechanical Splicer Details
- RW-8 Boring Logs I
- RW-9 Boring Logs II
- RW-10 Boring Logs III



DETAIL A
SLEEVE THRU PARAPET
 Furnishing and installing Non-Metallic Sleeve and Grout is included in the cost of Concrete Superstructure. See Lighting Plans for additional details.



TYPICAL CROSS SECTION
 (Looking Upstation)

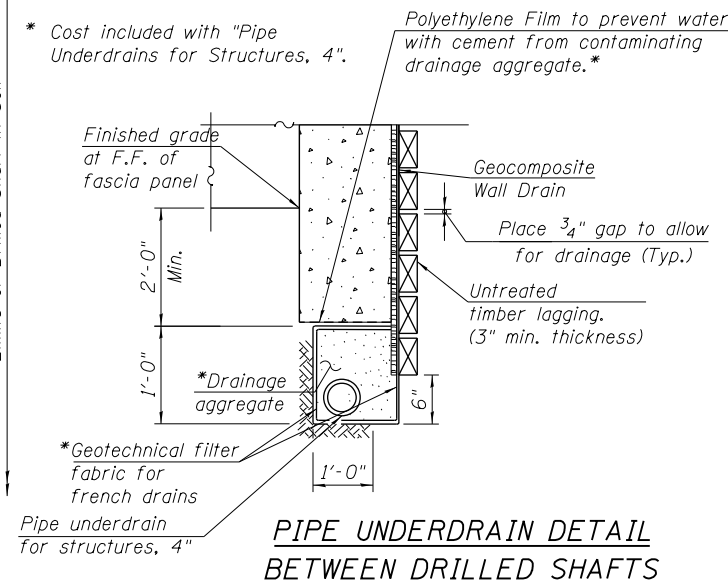
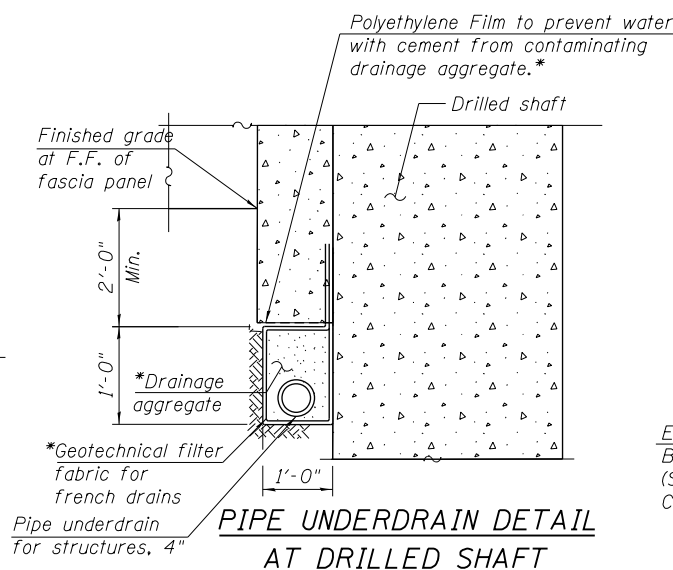


TABLE 1 - WALL ELEVATIONS

Station	Offset	Elevation A	Elevation B	Elevation C	Elevation D	Elevation E	Elevation F	Elevation G	Elevation H
1319+75.65	14'-11 ¹ / ₈ "	574.68	578.39	572.68	582.21	596.03	589.37	593.37	599.78
1320+02.21	15'-10 ³ / ₄ "	574.66	578.46	572.66	577.86	595.21	589.37	593.37	599.72
1320+33.07	17'-5 ¹ / ₈ "	574.53	578.49	572.53	576.91	594.99	589.37	593.37	599.65
1320+64.00	19'-4 ¹ / ₂ "	574.30	578.46	572.30	574.41	594.65	589.37	593.37	599.57
1320+95.03	21'-8 ³ / ₄ "	574.02	578.43	572.02	574.29	594.77	589.37	593.37	599.50
1321+26.16	24'-6"	573.71	578.41	571.71	575.05	594.86	589.37	593.37	599.43
1321+53.10	27'-2 ³ / ₈ "	573.43	578.41	571.43	577.47	595.62	589.37	593.37	599.37

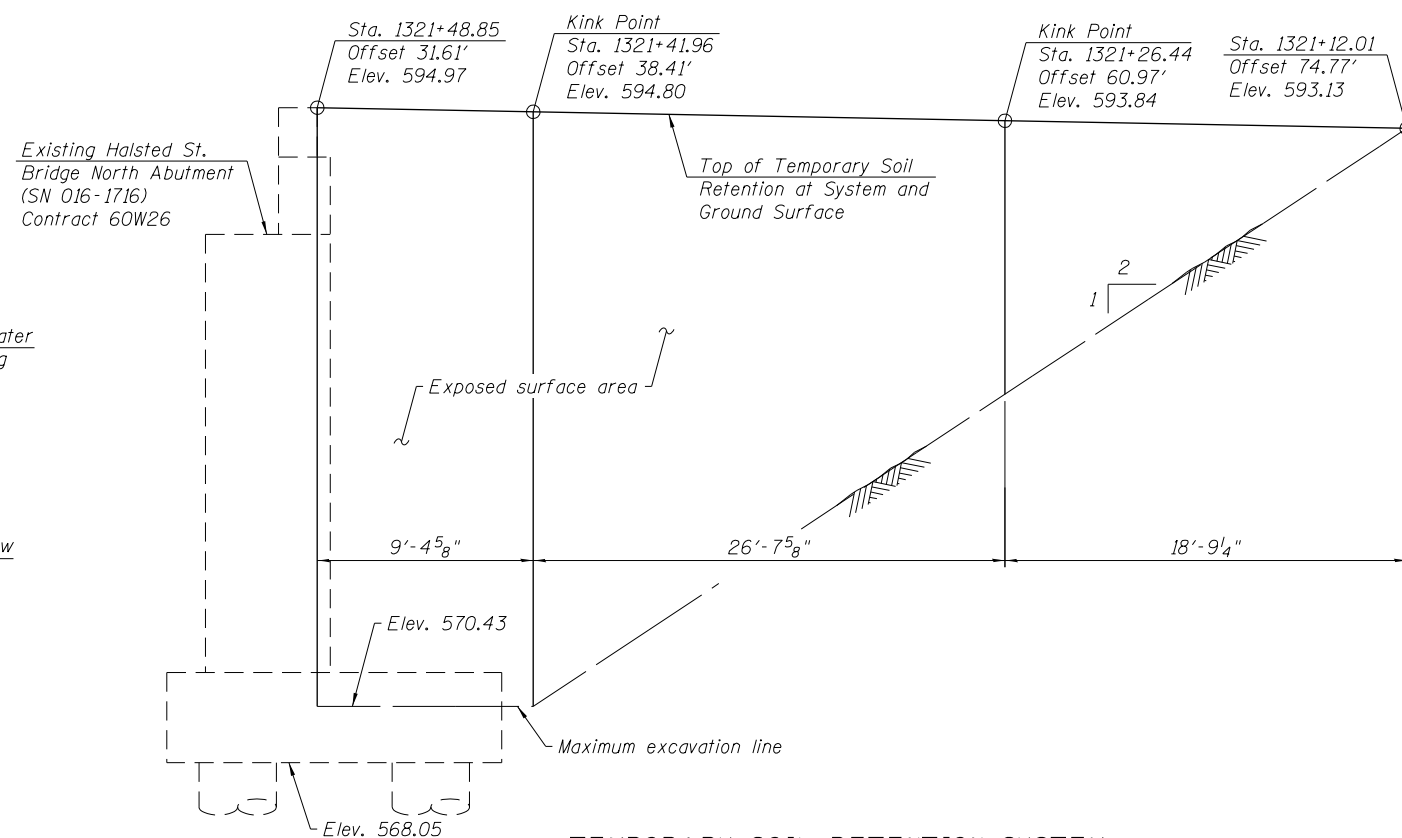
Elevation A- Finished Grade at Front Face of Fascia Panel
 Elevation B- Top of Slope at Front Face of Fascia Panel
 Elevation C- Bottom of Fascia Panel
 Elevation D- Existing Grade at Front Face of Fascia Panel
 Elevation E- Finished Grade at Back Face of Parapet
 Elevation F- Top of Shaft & Fascia Panel / Bottom of Cap
 Elevation G- Top of Cap / Bottom of Parapet
 Elevation H- Top of Parapet

TOTAL BILL OF MATERIAL

Item	Unit	Total
Porous Granular Backfill	Cu. Yd.	614.7
Structure Excavation	Cu. Yd.	99.2
Concrete Structures	Cu. Yd.	178.1
Concrete Superstructure	Cu. Yd.	58.5
Reinforcement Bars	Pound	397,460
Reinforcement Bars, Epoxy Coated	Pound	16,370
Mechanical Splicers	Each	512
Concrete Sealer	Sq. Ft.	5684
Name Plates	Each	1
Drilled Shaft in Soil	Cu. Yd.	1340.5
Temporary Soil Retention System	Sq. Ft.	783
Class SI Concrete (Miscellaneous)	Cu. Yd.	169.9
Crosshole Sonic Logging	Each	1
Crosshole Sonic Logging Access Ducts	Foot	480
Foundation Construction at Existing Obstructions	Each	8
Removal of Soil Retention System	L. Sum	1
Stainless Steel Cable Plant Support System	L. Sum	1
Pipe Underdrain for Structures 4"	Foot	172

SUGGESTED CONSTRUCTION SEQUENCE

- Note: Work with Relocated Monument Suggested Reassembly Sequence on Sheet MON-3. Any revisions shall be submitted and approved by the Engineer.
1. Construct drilled shaft 1 thru 16.
 2. Construct drilled shaft cap & parapet.
 3. Excavate in front of shafts to Finished grade, installing lagging system in the process.
 4. Construct concrete fascia panel.



TEMPORARY SOIL RETENTION SYSTEM
 Along Halsted St. Bridge (SN 016-1716) approach slab

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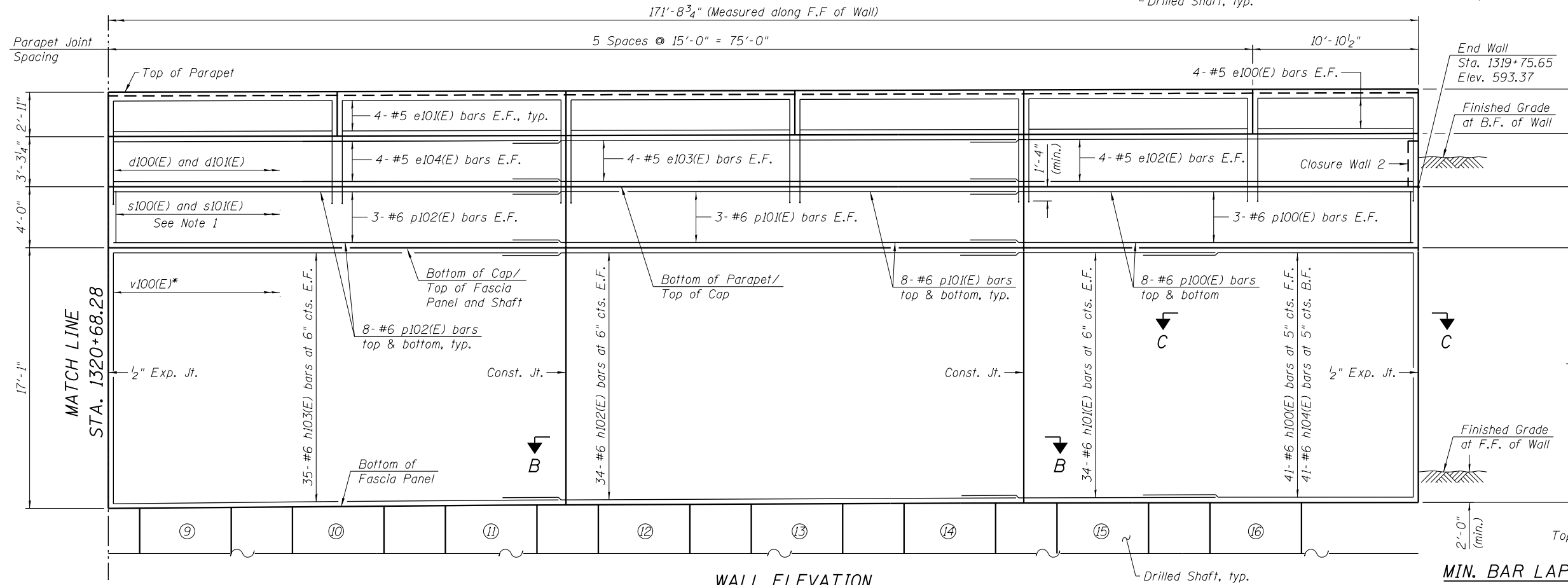
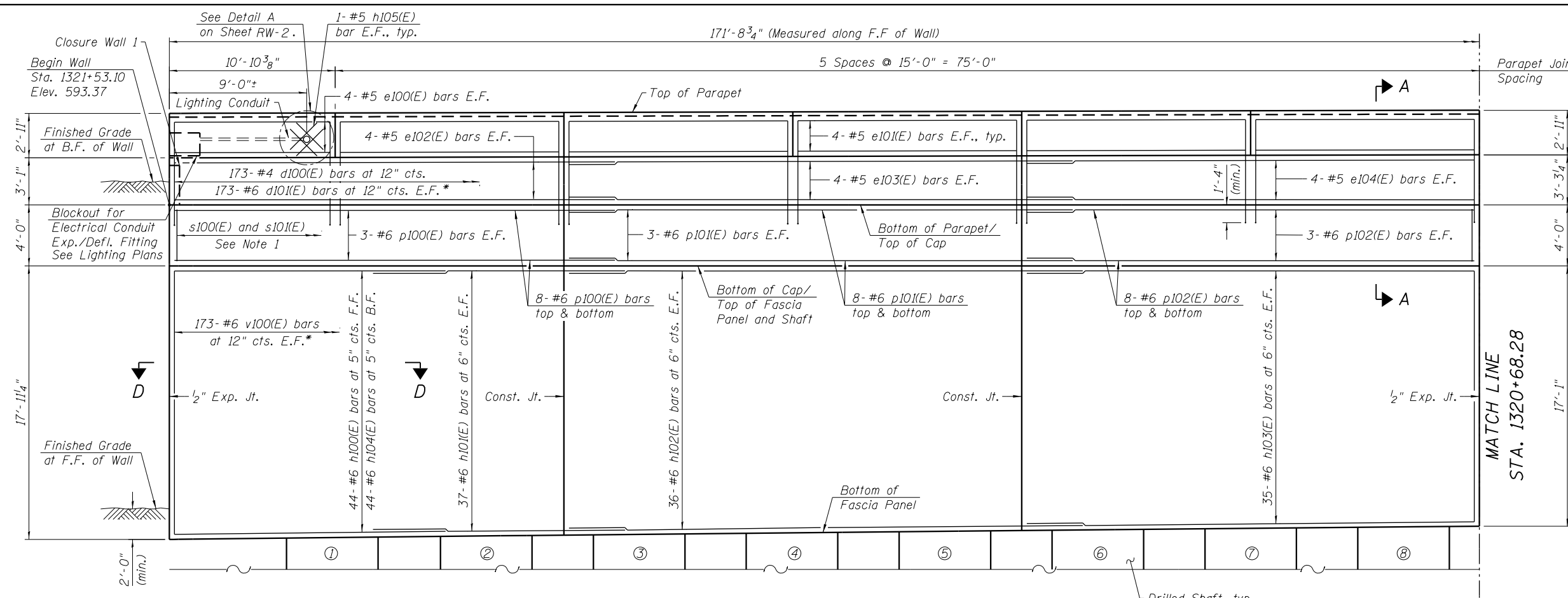
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PLOT DATE = 2/28/2017	DRAWN - TLR	REVISED -
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

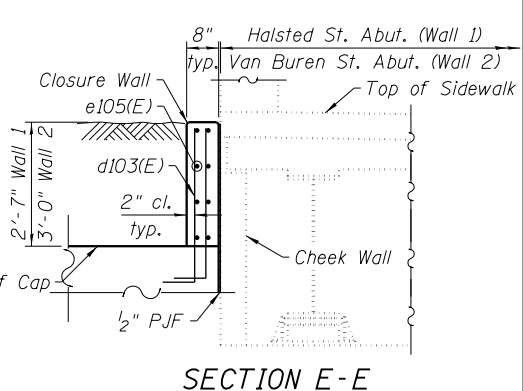
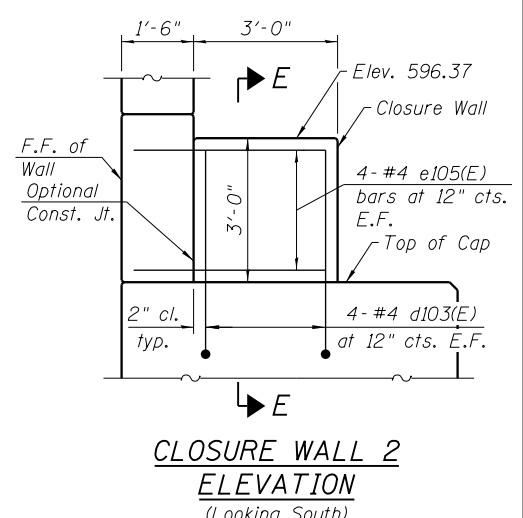
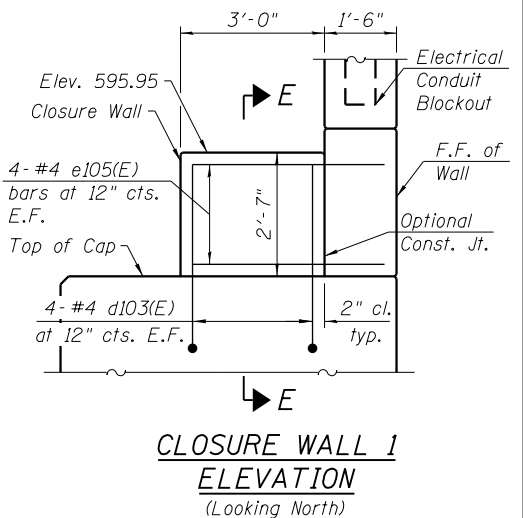
TOTAL BILL OF MATERIAL AND GENERAL NOTES
 STRUCTURE NO. 016-1808

SHEET NO. RW-2 OF RW-10 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 338
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



- NOTES:**
- 116 Pairs- #4 s100(E) bars and 116- #4 s100(E) bars at 18" cts.
 - Work this sheet with RW-4 & RW-5.
 - F.F. = Front Face
B.F. = Back Face
E.F. = Each Face
 - Parapet concrete shall be paid for as Concrete Superstructure.
 - Shaft cap shall be paid for as Concrete Structures.
 - Concrete fascia panels shall be paid as Class SI Concrete (Miscellaneous).
 - A drilled shaft shall be tested in accordance with Special Provision for Crosshole Sonic Logging.
 - See sheet RW-5 for Drilled Shaft Layout Table.



MIN. BAR LAP

#5	3'-2"
#6	3'-10"

WALL ELEVATION
(Looking Northwest)

Drilled shaft reinforcement not shown for clarity. * Cut bars to maintain minimum cover.

3/31/14 4:44 PM 0161808-60X99-503-ElevDetails

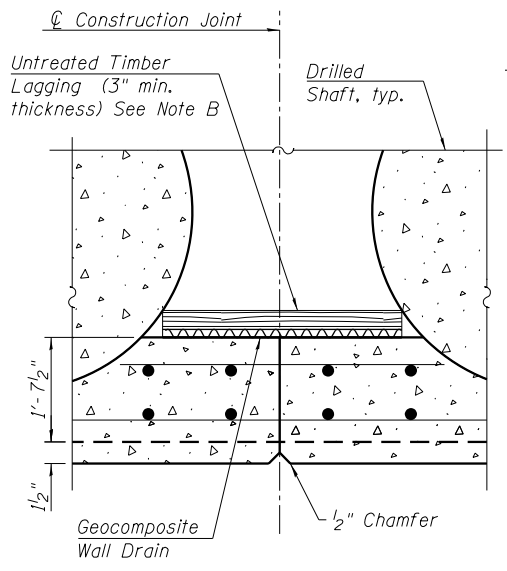


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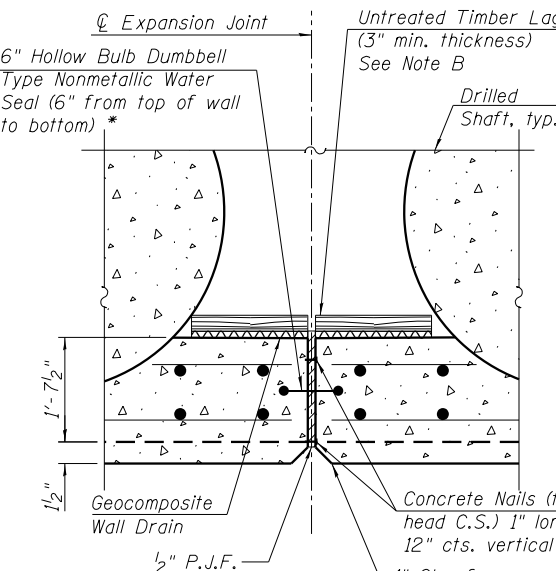
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WALL ELEVATION DETAILS
STRUCTURE NO. 016-1808
SHEET NO. RW-3 OF RW-10 SHEETS

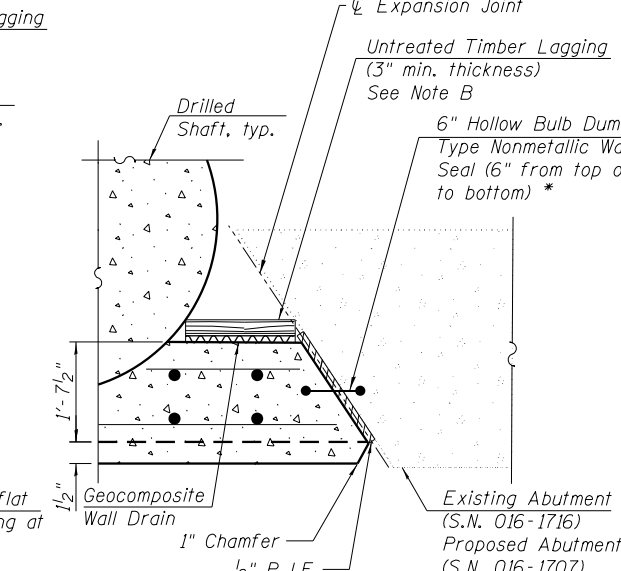
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CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



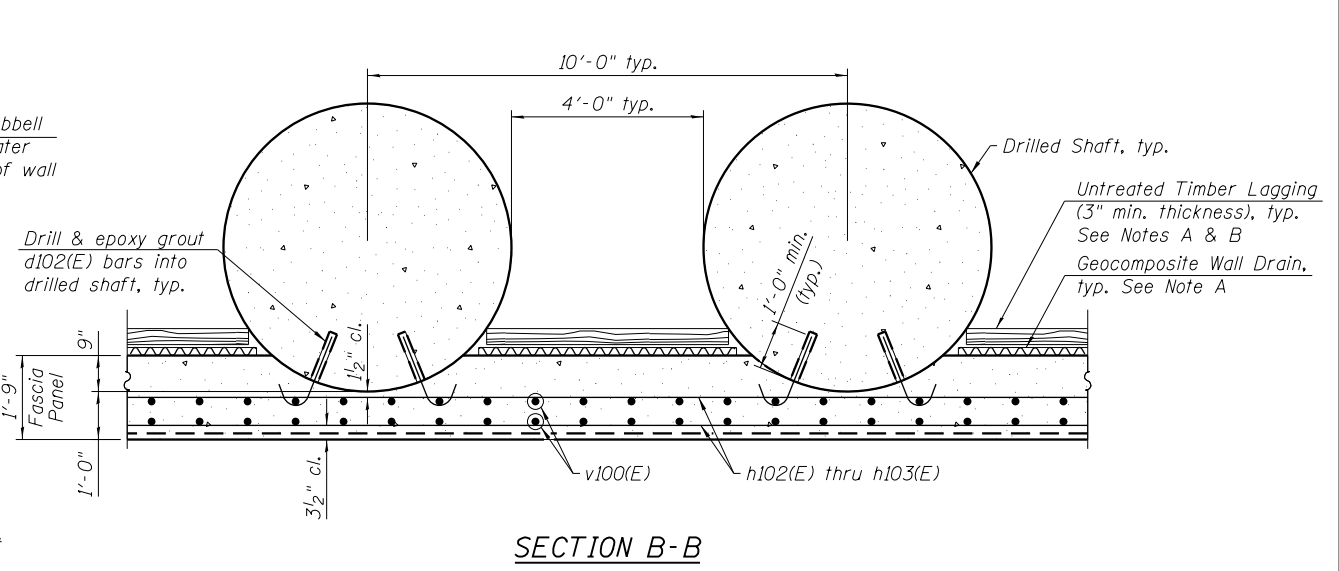
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(NTS)



EXPANSION JOINT DETAILS
(NTS)

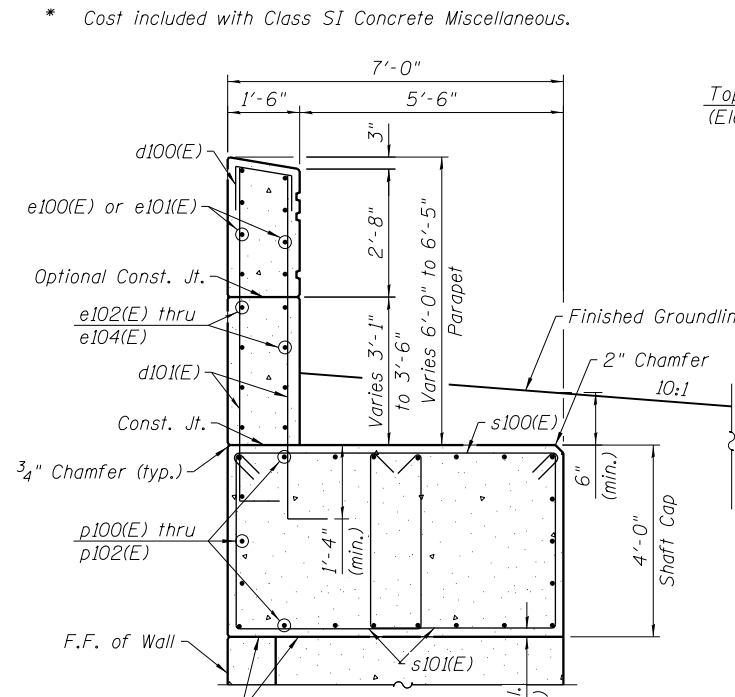


EXPANSION JOINT DETAILS
(NTS)



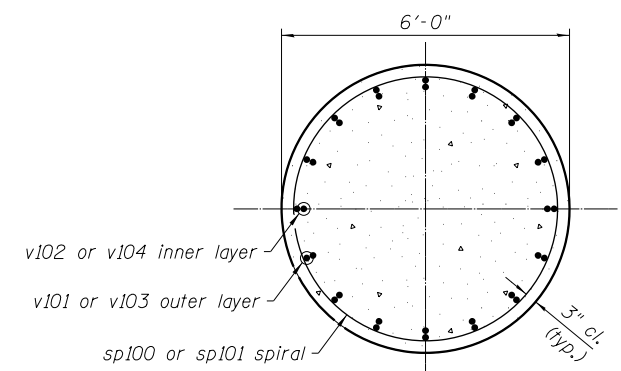
SECTION B-B

(Shaft reinforcement not shown for clarity)

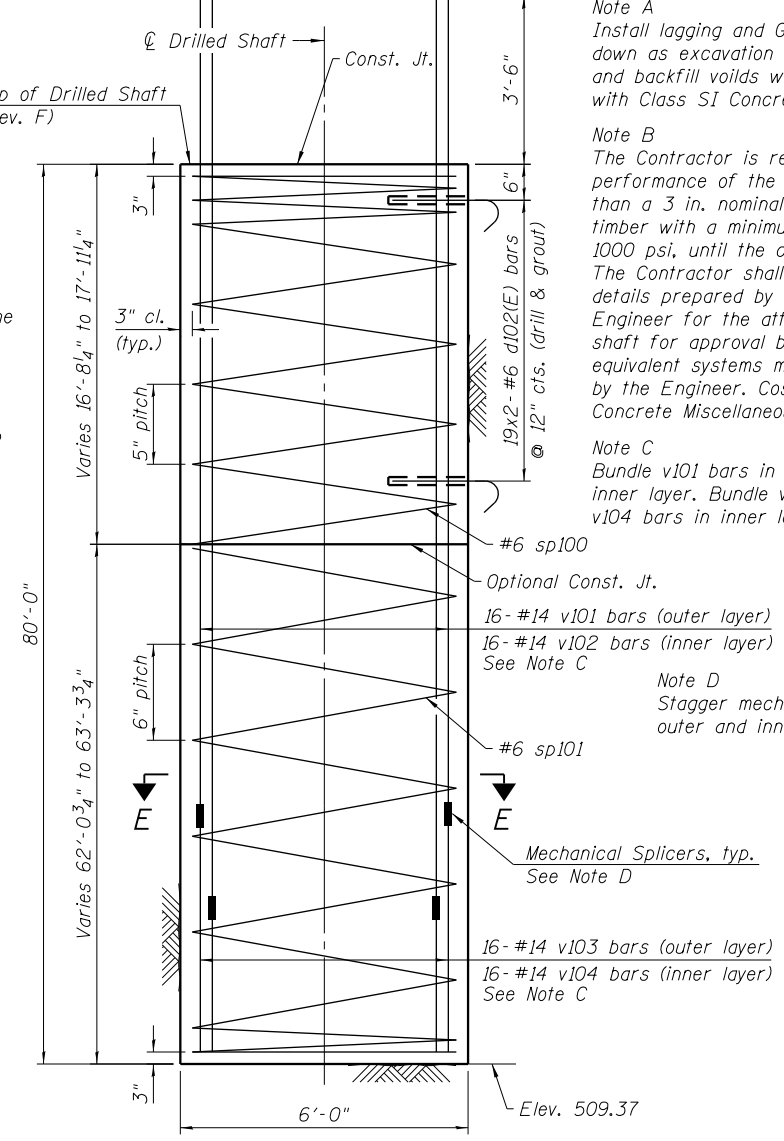


SECTION A-A

(Shaft and fascia panel reinforcement not shown for clarity)



SECTION E-E



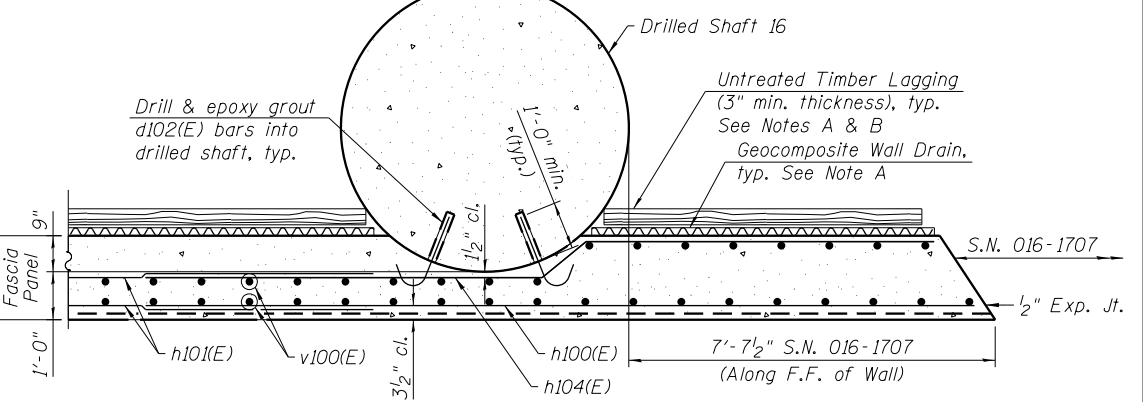
TYPICAL SHAFT ELEVATION

Note A
Install lagging and Geocomposite Wall Drain from top down as excavation proceeds. Minimize over-excavation and backfill voids with dry loose sand. Cost included with Class SI Concrete Miscellaneous.

Note B
The Contractor is responsible for the design and performance of the lagging system, using no less than a 3 in. nominal rough-sawn thickness and timber with a minimum allowable bending stress of 1000 psi, until the concrete facing is installed. The Contractor shall submit design calculations and details prepared by an Illinois Licensed Structural Engineer for the attachment of the lagging to the shaft for approval by the Engineer. Alternative equivalent systems may be submitted for approval by the Engineer. Cost included with Class SI Concrete Miscellaneous.

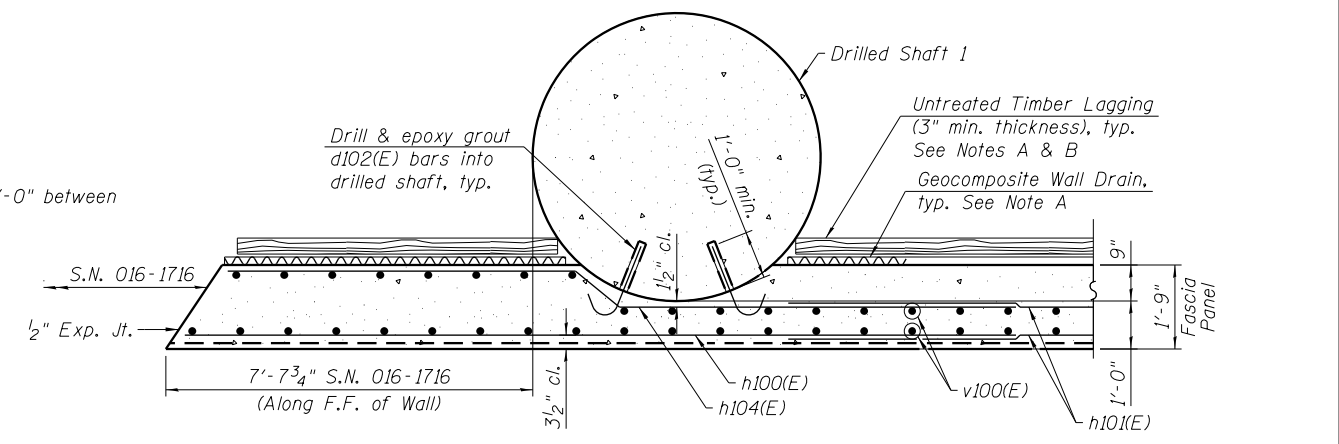
Note C
Bundle v101 bars in outer layer with v102 bars in inner layer. Bundle v103 bars in outer layer with v104 bars in inner layer.

Note D
Stagger mechanical splicers 2'-0" between outer and inner layer of bars.



SECTION C-C

(Shaft reinforcement not shown for clarity)



SECTION D-D

(Shaft reinforcement not shown for clarity)

NOTES

- When splicing spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
- Work this sheet with Sheets RW-3, RW-5, & RW-6.
- Drilling and grouting will be as per Section 584 of the Standard Specifications. Depth of embedment = 12". Cost to be included in Drilled Shaft in Soil.

3:08:28 PM 01/16/08-60X99-504-WallDetails



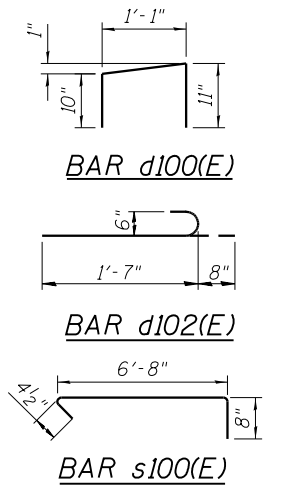
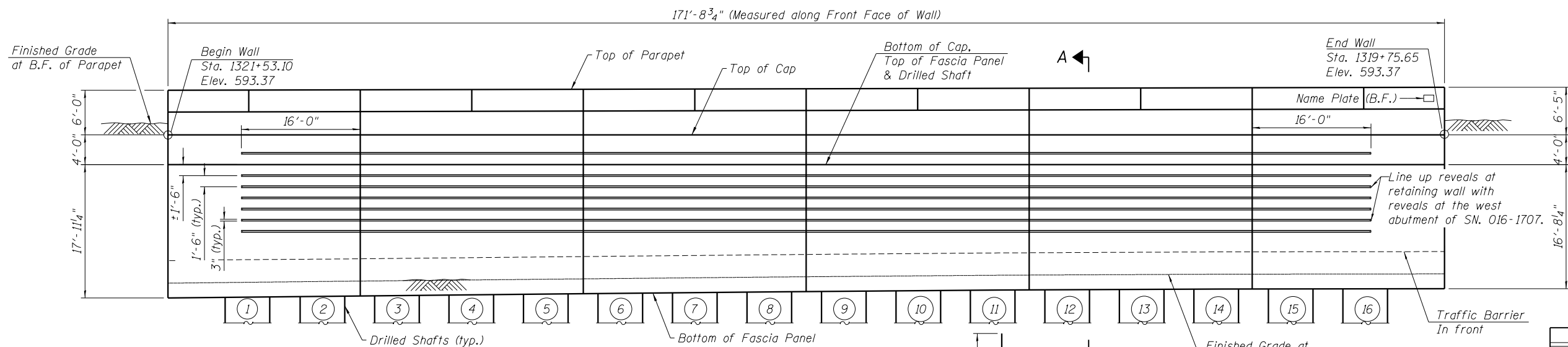
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PLOT SCALE = 4/8" 1' = 1/4"	CHECKED - DL	REVISED -
PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - DL/WJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WALL SECTIONS AND DETAILS
STRUCTURE NO. 016-1808**

SHEET NO. RW-4 OF RW-10 SHEETS

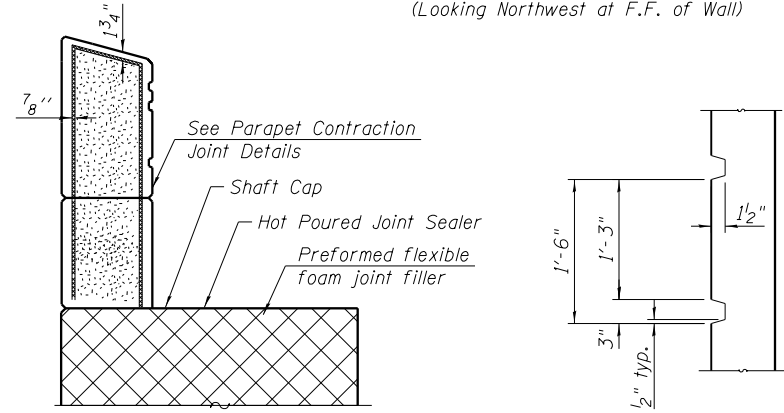
F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	340
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



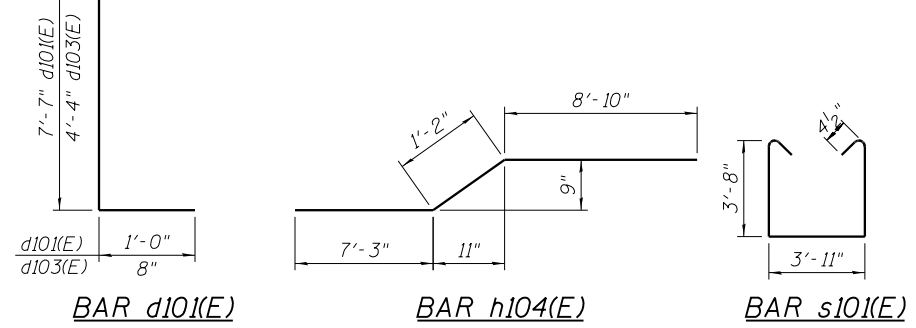
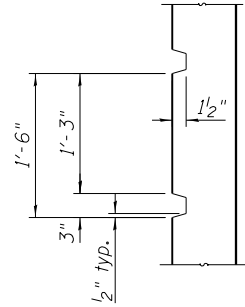
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
d100(E)	173	#4	2'-10"	[L-shaped]
d101(E)	346	#6	8'-7"	[L-shaped]
d102(E)	608	#6	2'-3"	[L-shaped]
d103(E)	16	#4	5'-0"	[L-shaped]
e100(E)	16	#5	10'-6"	[Horizontal]
e101(E)	80	#5	14'-8"	[Horizontal]
e102(E)	16	#5	29'-0"	[Horizontal]
e103(E)	16	#5	33'-2"	[Horizontal]
e104(E)	16	#5	29'-8"	[Horizontal]
e105(E)	16	#4	4'-2"	[Horizontal]
h100(E)	85	#6	17'-11"	[Horizontal]
h101(E)	142	#6	16'-7"	[Horizontal]
h102(E)	140	#6	34'-0"	[Horizontal]
h103(E)	140	#6	29'-8"	[Horizontal]
h104(E)	85	#6	17'-3"	[Horizontal]
h105(E)	8	#5	2'-6"	[Horizontal]
p100(E)	44	#6	29'-0"	[Horizontal]
p101(E)	44	#6	33'-2"	[Horizontal]
p102(E)	44	#6	29'-8"	[Horizontal]
s100(E)	116	#4	7'-9"	[L-shaped]
s101(E)	232	#4	12'-0"	[L-shaped]
sp100	16	#6	17'-9"	[Spiral]
sp101	16	#6	61'-9"	[Spiral]
v100(E)	346	#6	17'-7"	[Horizontal]
v101	256	#14	43'-5"	[Horizontal]
v102	256	#14	45'-5"	[Horizontal]
v103	256	#14	39'-11"	[Horizontal]
v104	256	#14	37'-11"	[Horizontal]
Porous Granular Backfill		Cu. Yd.	614.7	
Structure Excavation		Cu. Yd.	99.2	
Concrete Structures		Cu. Yd.	178.1	
Concrete Superstructures		Cu. Yd.	58.5	
Reinforcement Bars		Pound	397,460	
Reinforcement Bars, Epoxy Coated		Pound	16,370	
Concrete Sealer		Sq. Ft.	5,684	
Drilled Shaft in Soil		Cu. Yd.	1,304.5	
Class SI Concrete (Miscellaneous)		Cu. Yd.	169.9	
Crosshole Sonic Logging		Each	1	
Crosshole Sonic Logging Access Ducts		Foot	480	
Pipe Underdrain for Structures 4"		Foot	172	

ELEVATION
(Looking Northwest at F.F. of Wall)



DETAIL 1

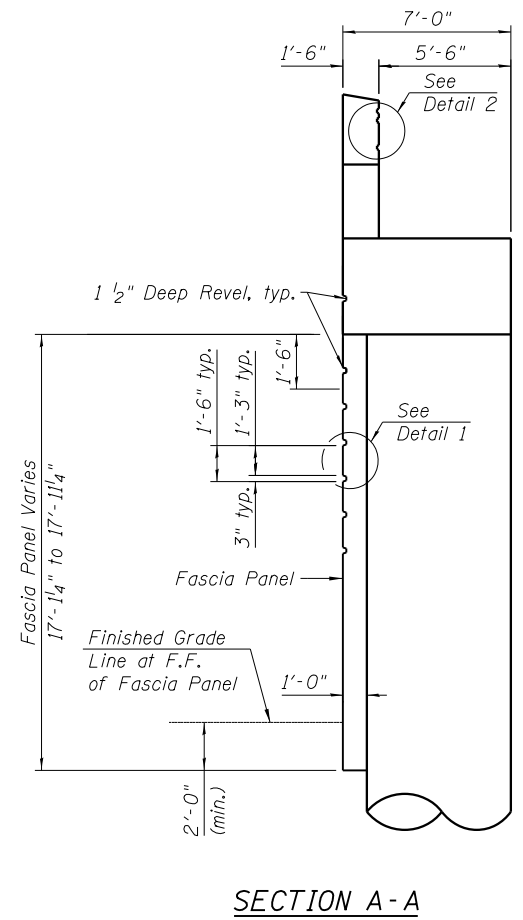


DRILLED SHAFT LAYOUT TABLE

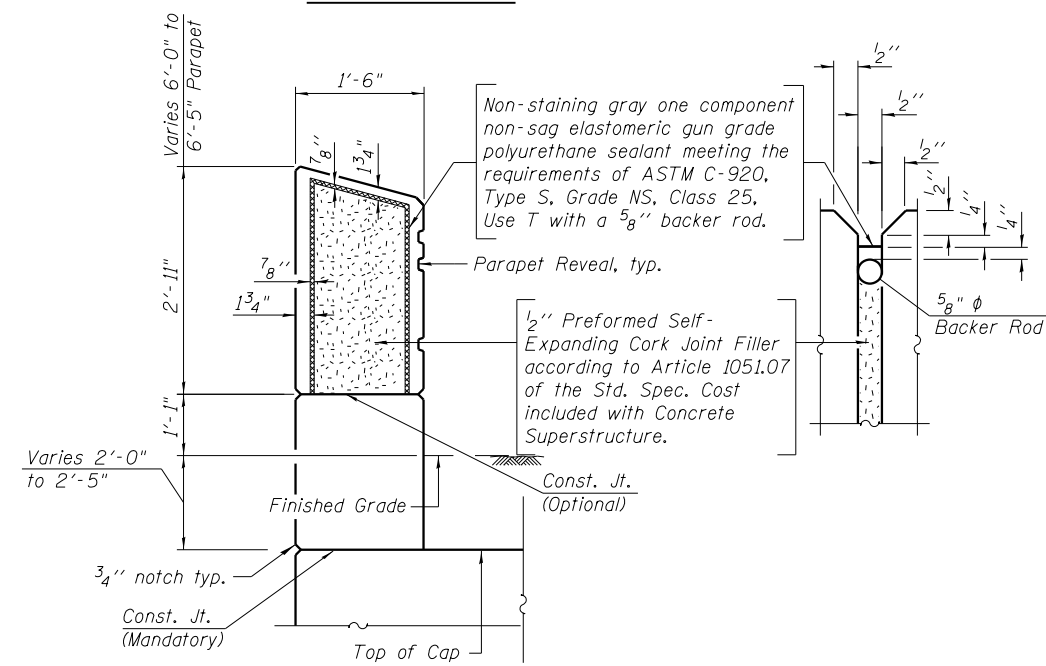
Shaft No.	Station	Offset	Top of Shaft Elevation	Bottom of Shaft Elevation	Existing Groundline Elevation
1	1321+42.05	30.08 RT	589.37	509.37	577.74
2	1321+31.56	29.04 RT	589.37	509.37	574.28
3	1321+21.09	28.04 RT	589.37	509.37	574.85
4	1321+10.63	27.08 RT	589.37	509.37	574.28
5	1321+00.18	26.18 RT	589.37	509.37	574.25
6	1320+89.74	25.31 RT	589.37	509.37	574.33
7	1320+79.32	24.50 RT	589.37	509.37	574.37
8	1320+68.91	23.73 RT	589.37	509.37	574.39
9	1320+58.51	23.01 RT	589.37	509.37	574.44
10	1320+48.12	22.33 RT	589.37	509.37	574.45
11	1320+37.74	21.70 RT	589.37	509.37	575.23
12	1320+27.37	21.12 RT	589.37	509.37	576.30
13	1320+17.00	20.59 RT	589.37	509.37	576.95
14	1320+06.64	20.10 RT	589.37	509.37	577.71
15	1319+96.29	19.66 RT	589.37	509.37	578.07
16	1319+85.95	19.27 RT	589.37	509.37	578.62

NOTES:

- The 3" x 1 1/2" reveal in the fascia wall will not be paid separately and shall be included in the cost of the pay item Class SI Concrete (Miscellaneous).
- Prior to fascia panel construction the Contractor shall submit retaining wall and abutments elevations showing reveal spacing and location to the Engineer for review and approval.
- Work this sheet with Sheets RW-3, RW-4, and RW-6.



SECTION A-A



PARAPET CONTRACTION JOINT DETAILS

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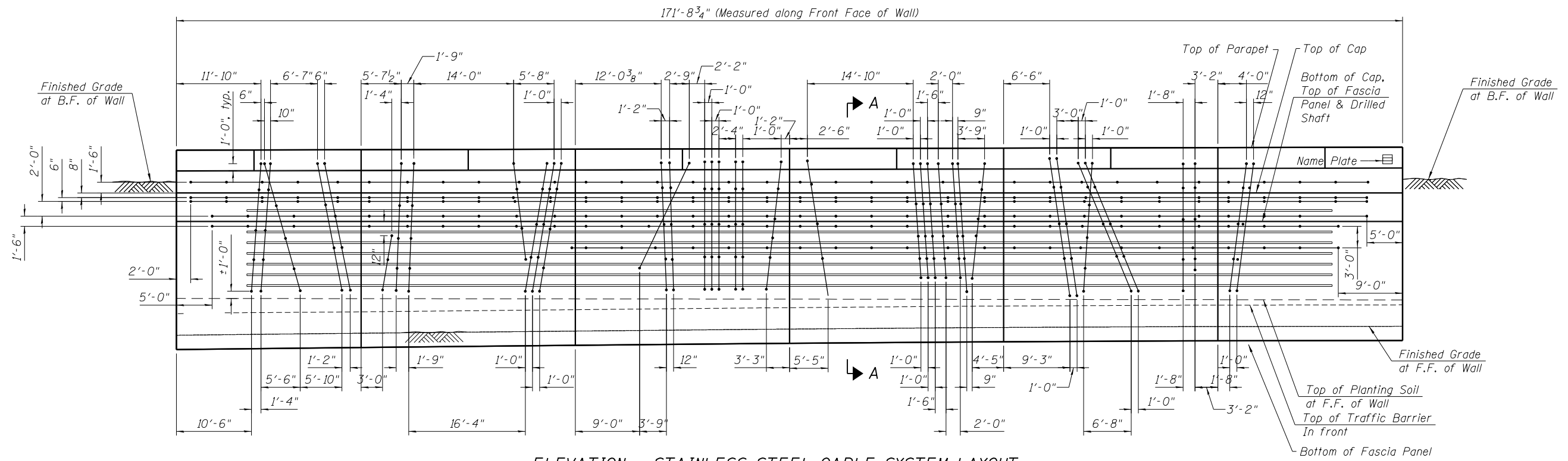
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CHECKED - DL	REVISIONS -	
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PLOT DATE = 2/28/2017	CHECKED - DL/WJC	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

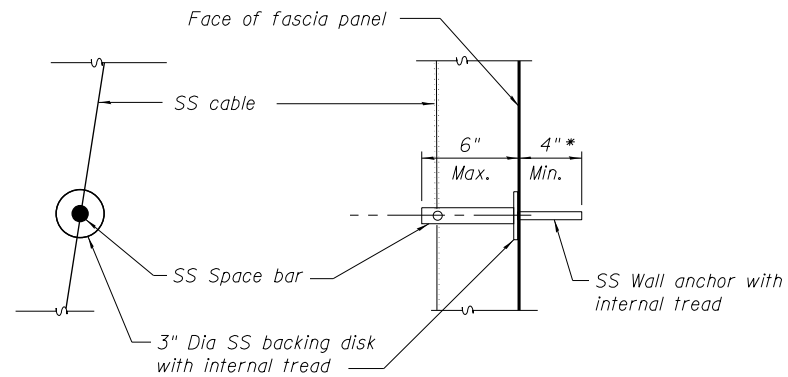
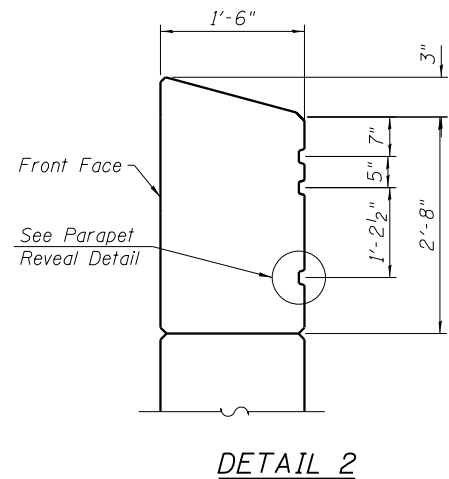
ARCHITECTURAL DETAILS I
STRUCTURE NO. 016-1808

SHEET NO. RW-5 OF RW-10 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	341
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

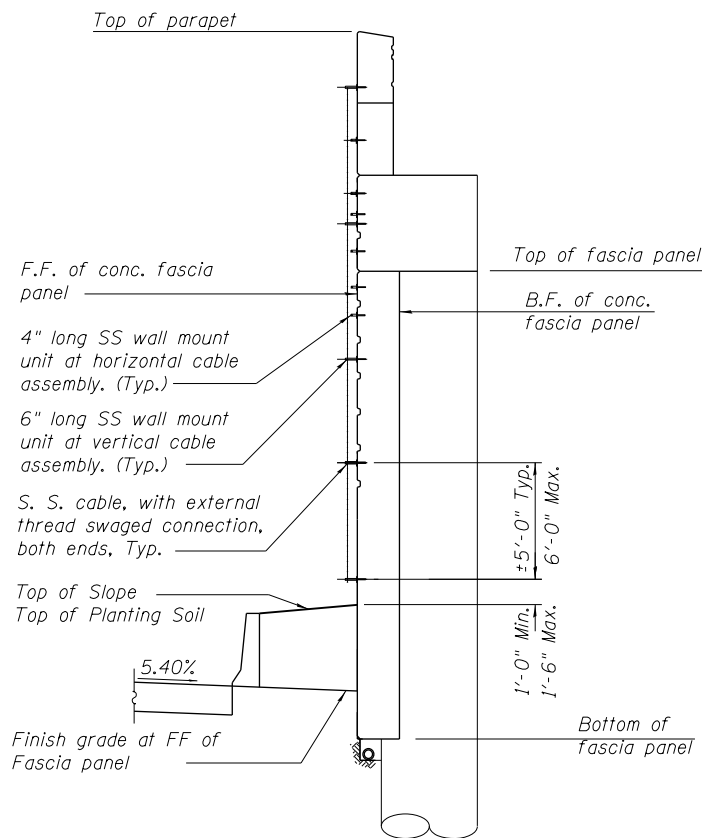


ELEVATION - STAINLESS STEEL CABLE SYSTEM LAYOUT
(Looking Northwest at F.F. of Wall)



* For size and type of wall anchor follow Manufacturer's instructions and installation guide.

SS CABLE WALL MOUNT DETAIL



SECTION A-A
(Looking Upstair)

NOTES:

1. Stainless steel cable system will be paid at a lump sum price for "Stainless Steel Cable Plant Support System" per wall.
2. Locate bottom anchor 1'-0" minimum to 1'-6" maximum above finished grade. Line up anchors as shown on elevation where possible, maintaining 5'-0" typ. up to 6'-0" maximum spacing between anchor points.
3. Avoid placing anchors at intersection of vertical and horizontal cables.
4. Use 4" long SS space bars at horizontal cables and use 6" long SS space bars at vertical cables.
5. Drilled holes for trellis wall anchors to be at least 6" away from the construction joints in wall panels and reveals. Coordinate with the concrete manufacturer for other requirements.
6. Coordinate / verify all dimensions with structural drawings.
7. Parapet reveal will not be paid separately and shall be included in the cost of pay item Concrete Superstructures.
8. Work this sheet with Sheets RW-4 and RW-5.

BILL OF MATERIAL

Item	Unit	Total
Stainless Steel Cable Plant Support System	L. Sum	1

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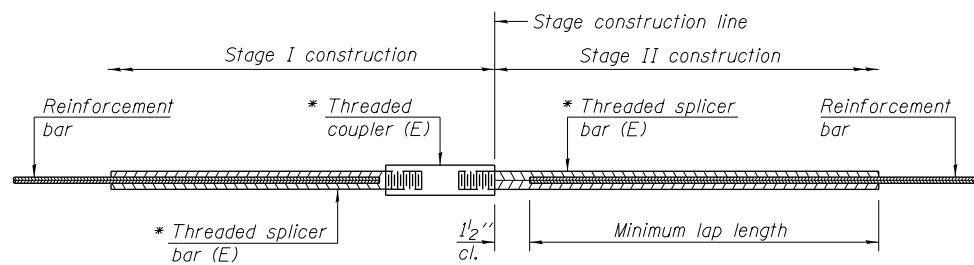
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	CHECKED - DL/WJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARCHITECTURAL DETAILS II
STRUCTURE NO. 016-1808**

SHEET NO. RW-6 OF RW-10 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	342
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



STANDARD BAR SPLICER ASSEMBLY

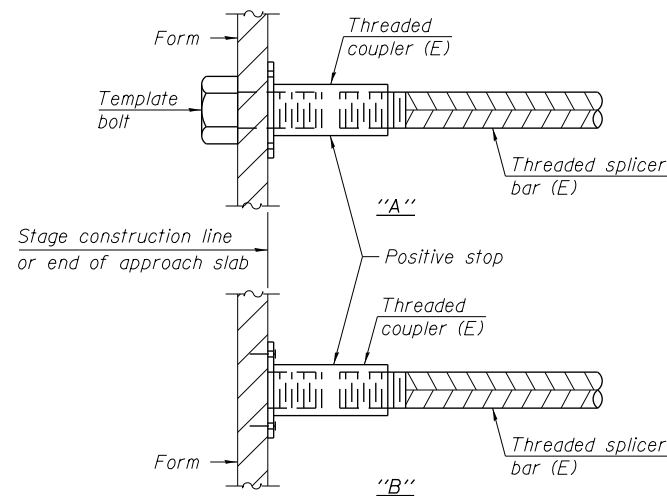
Minimum Lap Lengths						
Bar size to be spliced	Table 1	Table 2	Table 3	Table 4	Table 5	Table 6

- Table 1: Black bar, 0.8 Class C
- Table 2: Black bar, Top bar lap, 0.8 Class C
- Table 3: Epoxy bar, 0.8 Class C
- Table 4: Epoxy bar, Top bar lap, 0.8 Class C
- Table 5: Epoxy bar, Class C
- Table 6: Epoxy bar, Top bar top, Class C

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

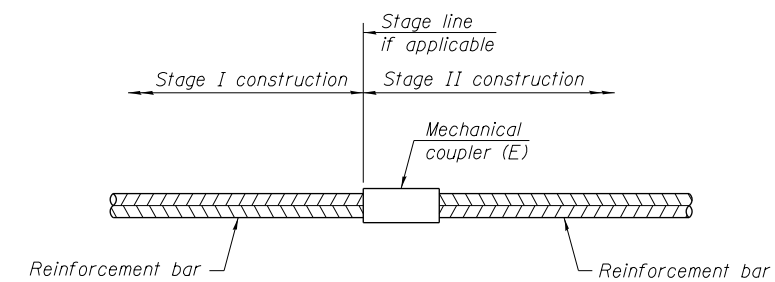
* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Table for minimum lap length



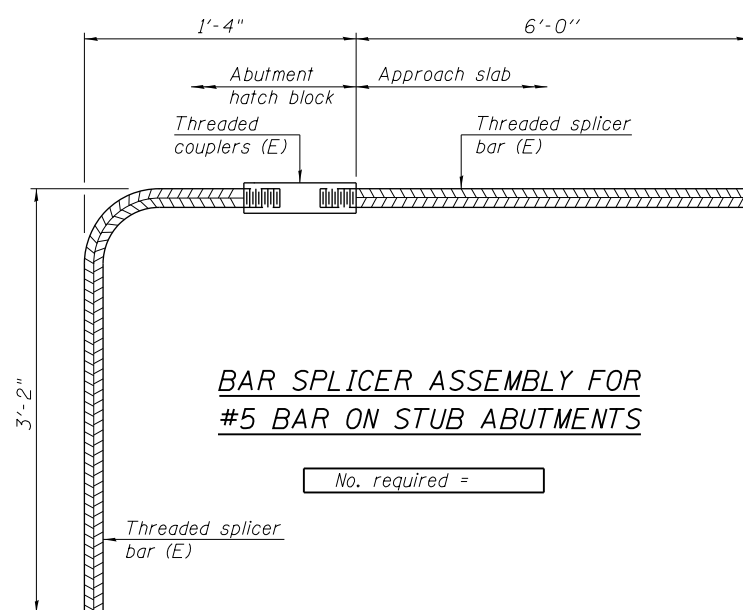
INSTALLATION AND SETTING METHODS

"A" : Set bar splicer assembly by means of a template bolt.
 "B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.
 (E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required
Drill Shaft 1	14	32
Drill Shaft 2	14	32
Drill Shaft 3	14	32
Drill Shaft 4	14	32
Drill Shaft 5	14	32
Drill Shaft 6	14	32
Drill Shaft 7	14	32
Drill Shaft 8	14	32
Drill Shaft 9	14	32
Drill Shaft 10	14	32
Drill Shaft 11	14	32
Drill Shaft 12	14	32
Drill Shaft 13	14	32
Drill Shaft 14	14	32
Drill Shaft 15	14	32
Drill Shaft 16	14	32



BAR SPLICER ASSEMBLY FOR #5 BAR ON STUB ABUTMENTS

No. required =

NOTES

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.
 All reinforcement shall be lapped and tied to the splicer bars.
 Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.
 See approved list of bar splicer assemblies and mechanical splicers for alternatives.

3:08:35 PM 0161808-60X99-507-BarSplice.dgn

BSD-1

6-8-15



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PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - DL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS
STRUCTURE NO. 016-1707**

SHEET NO. RW-7 OF RW-10 SHEETS

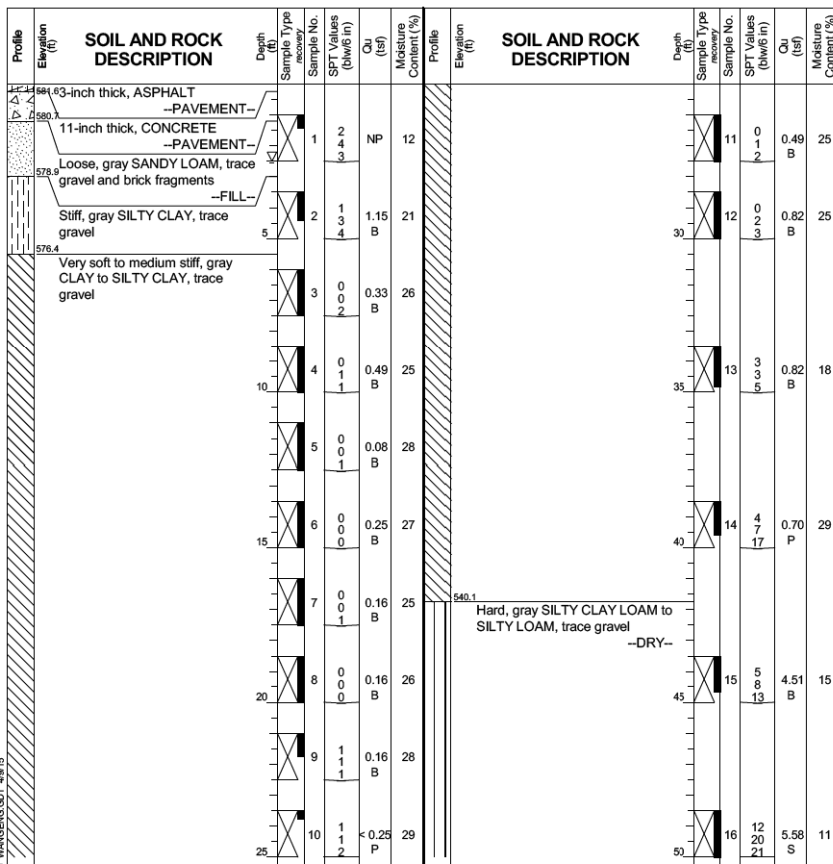
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CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 39-RWB-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.87 ft
North: 1898358.83 ft
East: 1171247.64 ft
Station: 1320+04.07
Offset: 27.4619 RT

Page 1 of 2



GENERAL NOTES
Begin Drilling: 08-07-2014 Complete Drilling: 08-07-2014
Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR
Driller: R&J Logger: S. Woods Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 2.50 ft
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

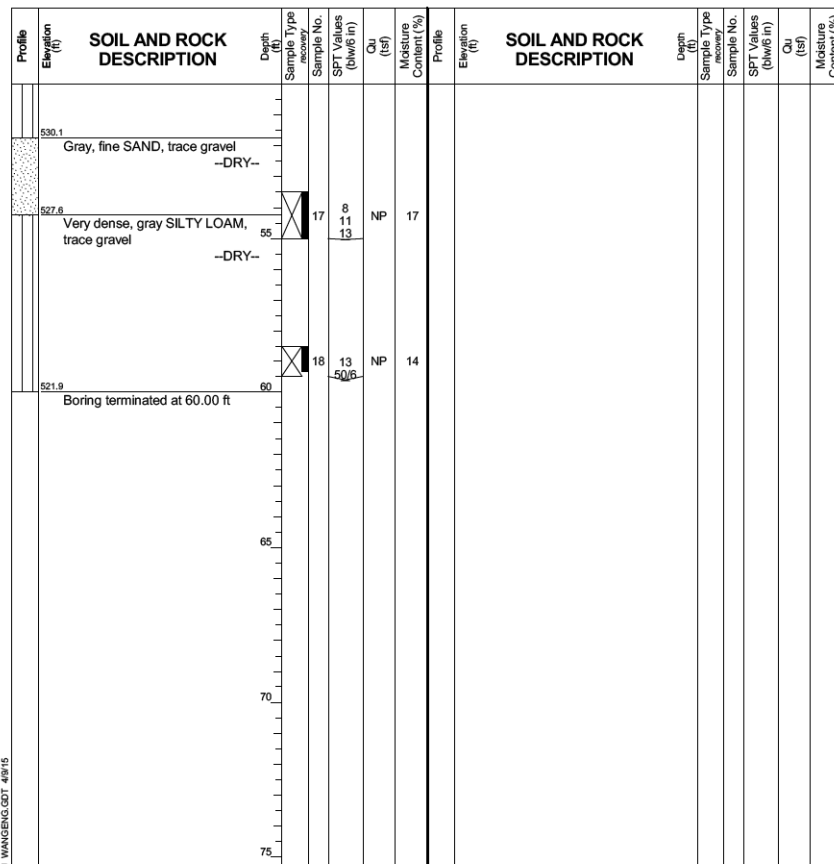
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 39-RWB-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 581.87 ft
North: 1898358.83 ft
East: 1171247.64 ft
Station: 1320+04.07
Offset: 27.4619 RT

Page 2 of 2



GENERAL NOTES
Begin Drilling: 08-07-2014 Complete Drilling: 08-07-2014
Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR
Driller: R&J Logger: S. Woods Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 2.50 ft
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

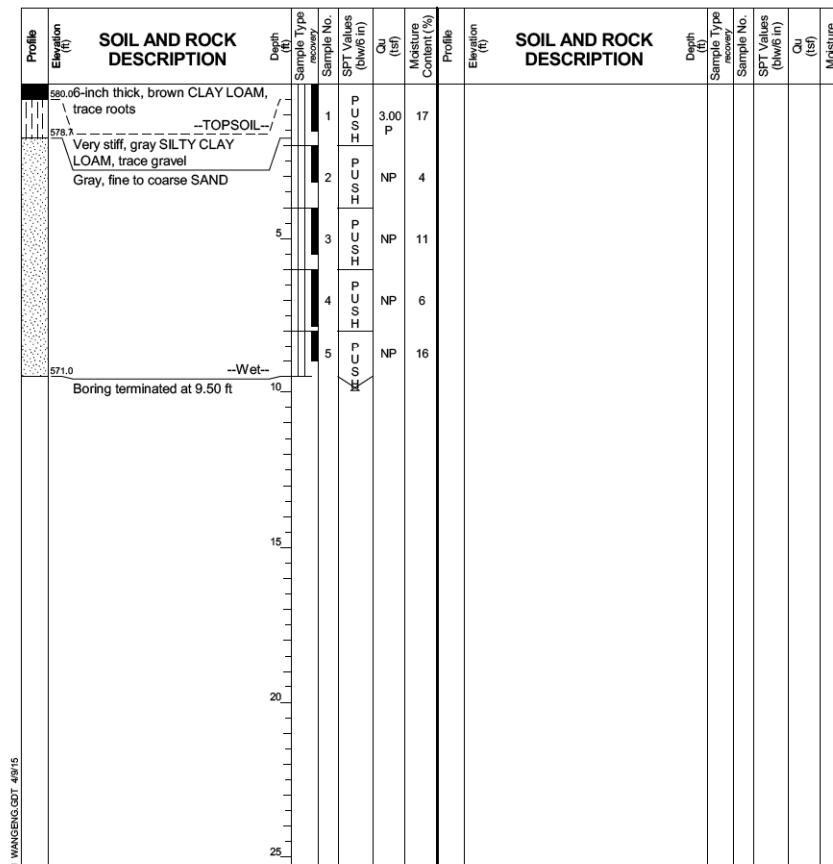
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 39-RWB-01HA
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 580.50 ft
North: 1898317.61 ft
East: 1171210.29 ft
Station: 1320+62.52
Offset: 33.3936' RT

Page 1 of 1



GENERAL NOTES
Begin Drilling: 10-28-2014 Complete Drilling: 10-28-2014
Drilling Contractor: Wang Testing Services Drill Rig: Geoprobe HA
Driller: P&P Logger: F. Bozga Checked by: M. Seyhun
Drilling Method: 1" IDA Pneumatic Geoprobe LB Sampler

WATER LEVEL DATA
While Drilling: DRY
At Completion of Drilling: DRY
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

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DESIGNED - TLR
CHECKED - DL
DRAWN - TLR
CHECKED - DL
PLOT SCALE = 0.2" / 1'
PLOT DATE = 12/15/2016

REVISOR -
REVISION -
REVISOR -
REVISION -
REVISOR -
REVISION -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS I
STRUCTURE NO. 016-1808

SHEET NO. RW-8 OF RW-10 SHEETS

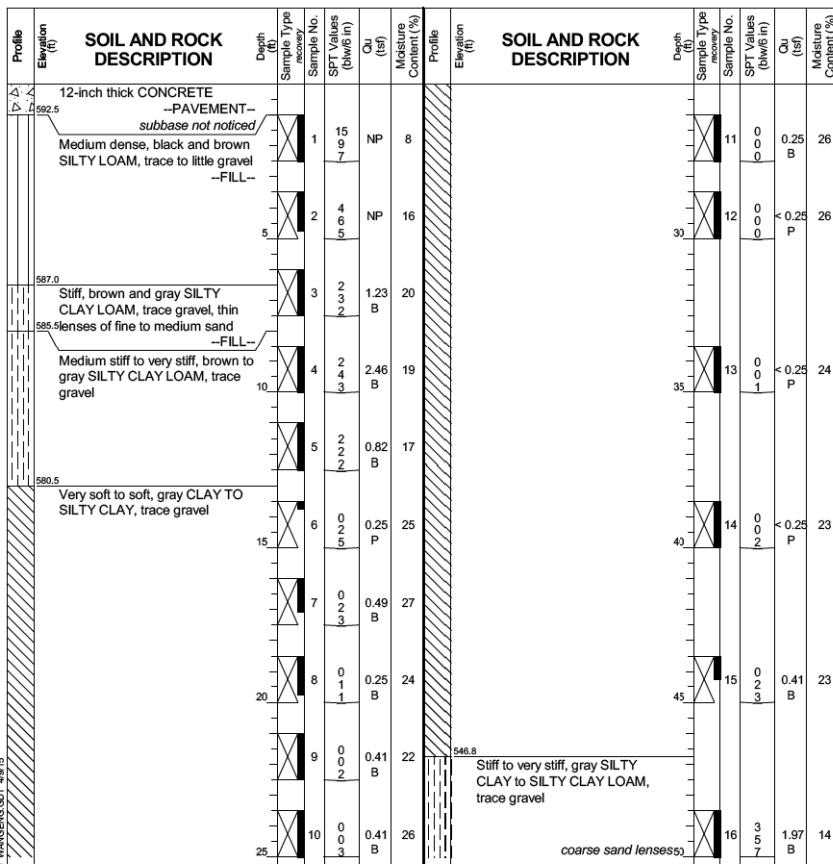
F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	344
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2055-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.52 ft
North: 1898392.15 ft
East: 1171221.90 ft
Station: 8147+32.81
Offset: 7.5987 RT

Page 1 of 3



GENERAL NOTES
Begin Drilling: 04-21-2013 Complete Drilling: 04-22-2013
Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR
Driller: R&N Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: Rotary wash
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

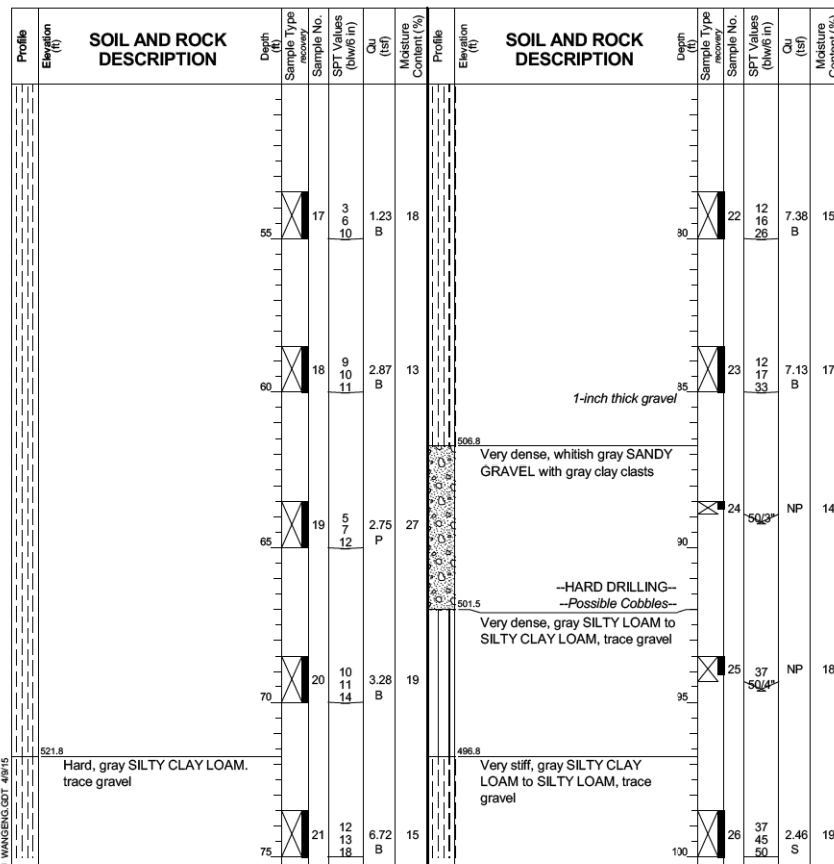
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2055-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.52 ft
North: 1898392.15 ft
East: 1171221.90 ft
Station: 8147+32.81
Offset: 7.5987 RT

Page 2 of 3



GENERAL NOTES
Begin Drilling: 04-21-2013 Complete Drilling: 04-22-2013
Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR
Driller: R&N Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: Rotary wash
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

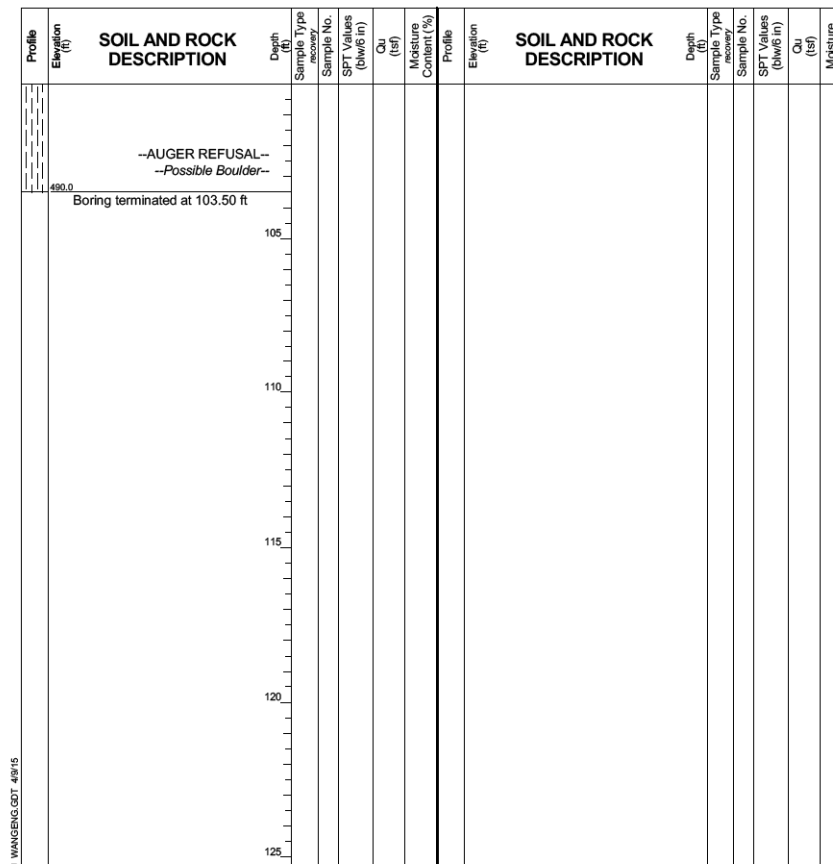
The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2055-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 593.52 ft
North: 1898392.15 ft
East: 1171221.90 ft
Station: 8147+32.81
Offset: 7.5987 RT

Page 3 of 3



GENERAL NOTES
Begin Drilling: 04-21-2013 Complete Drilling: 04-22-2013
Drilling Contractor: Wang Testing Services Drill Rig: D-50 TMR
Driller: R&N Logger: A. Happel Checked by: C. Marin
Drilling Method: 2.25" SSA to 10', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: Rotary wash
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

The stratification lines represent the approximate boundary between soil types; the actual transition may be gradual.

3:08:41 PM
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PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS II
STRUCTURE NO. 016-1808

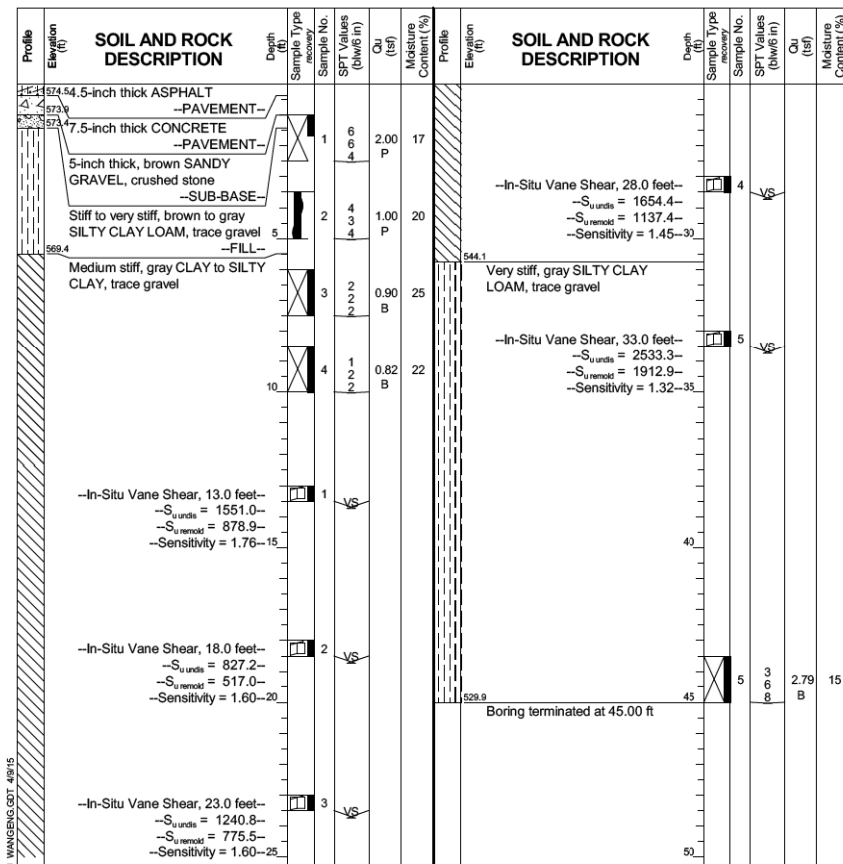
SHEET NO. RW-9 OF RW-10 SHEETS

F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	345
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 39-VST-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 574.85 ft
North: 1898266.88 ft
East: 1171202.33 ft
Station: 1321+07.61
Offset: 5.7540' RT



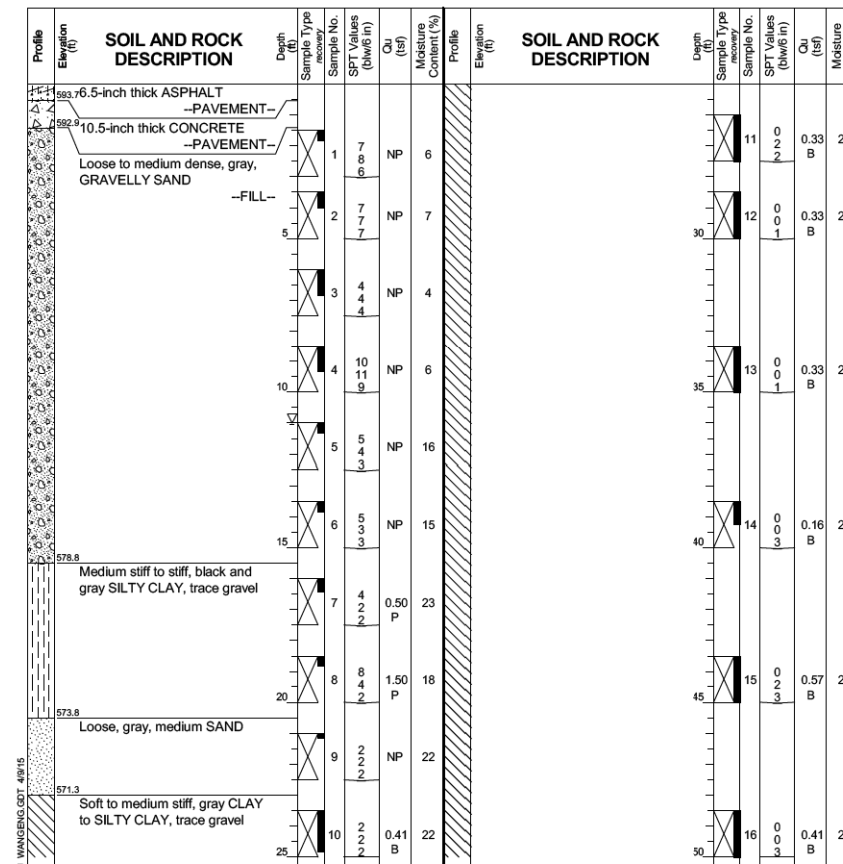
GENERAL NOTES
Begin Drilling: 10-15-2014
Complete Drilling: 10-19-2014
Drilling Contractor: Wang Testing Services
Drill Rig: CME-55 TMR
Driller: R&J
Logger: F. Bozga
Checked by: CLM (-coord)
Drilling Method: 2.25" IDA HSA, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: Rotary wash
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2081-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.27 ft
North: 1898215.40 ft
East: 1171096.56 ft
Station: 3837+74.38
Offset: 18.2325 LT



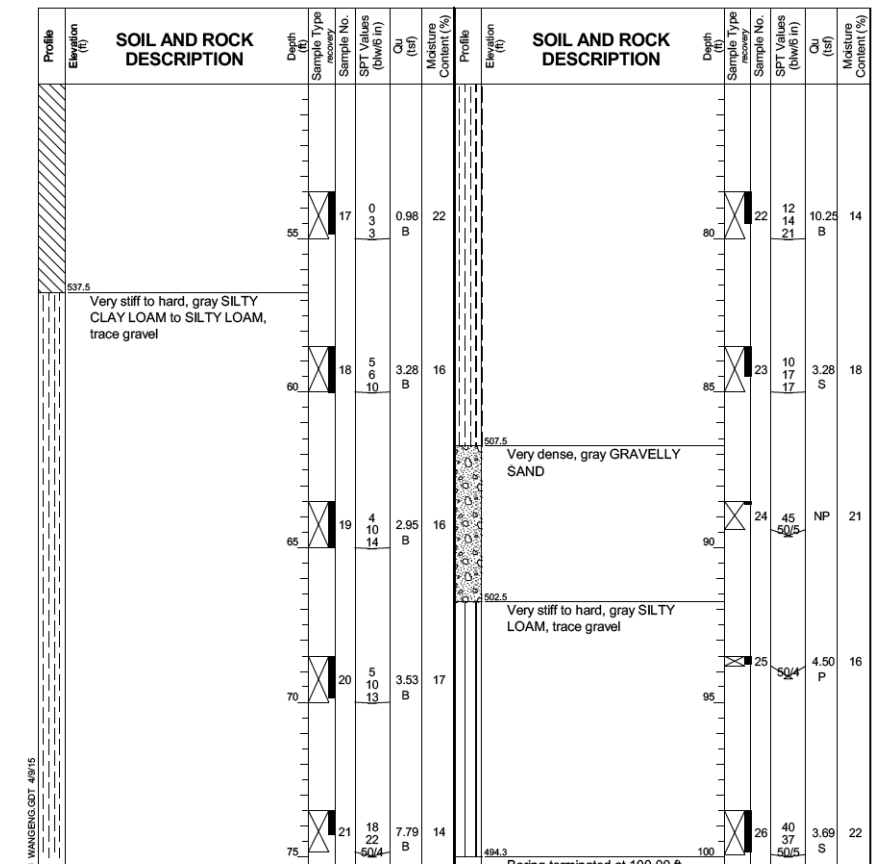
GENERAL NOTES
Begin Drilling: 04-02-2013
Complete Drilling: 04-02-2013
Drilling Contractor: Wang Testing Services
Drill Rig: B-57 TMR
Driller: R&T
Logger: D. Wind
Checked by: C. Marin
Drilling Method: 3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 11.00 ft
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

Wang Engineering
wangeng@wangeng.com
1145 N Main Street
Lombard, IL 60148
Telephone: 630 953-9928
Fax: 630 953-9938

BORING LOG 2081-B-01
WEI Job No.: 1100-04-01
Client: **AECOM**
Project: **Circle Interchange Reconstruction**
Location: **Section 17, T39N, R14E of 3rd PM**

Datum: NAVD 88
Elevation: 594.27 ft
North: 1898215.40 ft
East: 1171096.56 ft
Station: 3837+74.38
Offset: 18.2325 LT



GENERAL NOTES
Begin Drilling: 04-02-2013
Complete Drilling: 04-02-2013
Drilling Contractor: Wang Testing Services
Drill Rig: B-57 TMR
Driller: R&T
Logger: D. Wind
Checked by: C. Marin
Drilling Method: 3.25" HSA to 11', mud rotary thereafter, boring backfilled upon completion

WATER LEVEL DATA
While Drilling: 11.00 ft
At Completion of Drilling: unable to measure
Time After Drilling: NA
Depth to Water: NA

3:08:45 PM
0161808-60X99-510-Bor-IngLogs



USER NAME = mkwilson	DESIGNED - TLR	REVISED -
PLOT SCALE = 0.2" / 1'	CHECKED - DL	REVISED -
PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS III
STRUCTURE NO. 016-1808
SHEET NO. RW-10 OF RW-10 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	346
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				






GENERAL NOTES:

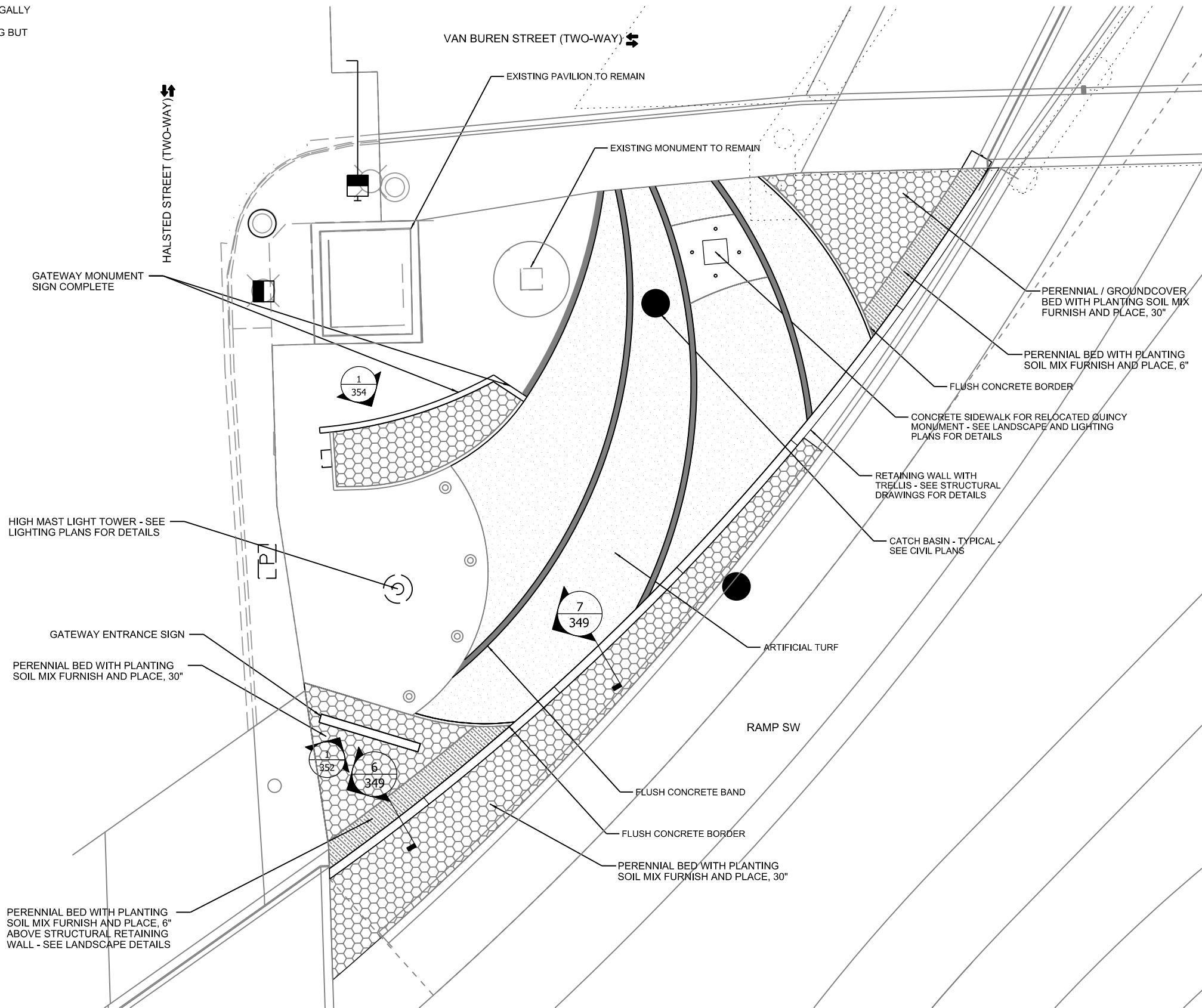
1. KEEP ALL AREAS CLEAN, NEAT AND ORDERLY AT ALL TIMES, CLEAR OF RUBBISH AND DEBRIS. LEGALLY DISPOSE OF ALL MATERIALS REMOVED FROM THE SITE.
2. DO NOT INTERFERE WITH THE DAILY OPERATIONS OR USE OF ADJACENT PROPERTIES INCLUDING BUT NOT LIMITED TO BUILDINGS, PARKING LOTS, STREETS OR ALLEYS.
3. VERIFY SITE CONDITIONS BEFORE PROCEEDING WITH WORK AND REPORT ANY CONFLICT TO ENGINEER.
4. VERIFY DIMENSIONS IN FIELD.
5. COORDINATE WORK WITH ALL OTHER TRADES.

LANDSCAPE NOTES:

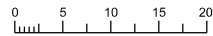
1. FOR LANDSCAPE PLANS, SEE SHEET L348
2. FOR LANDSCAPE DETAILS, SEE SHEET L350

LEGEND

-  ARTIFICIAL TURF
-  FLUSH CONCRETE BAND
-  FLUSH CONCRETE BORDER
-  PLANTING SOIL MIX FURNISH AND PLACE, 6"
-  PLANTING SOIL MIX FURNISH AND PLACE, 30"



1 SOIL PLACEMENT PLAN
1" = 10'-0"



FILE PATH = D:\60X99-Site\land-01.dgn



FILES#	DESIGNED ECW	REVISED -
USER NAME = JR	DRAWN JT	REVISED -
PLOT SCALE = 1:20	CHECKED BK	REVISED -
PLOT DATE = 12/15/2016	DATE - \$DATE	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
ELYSIAN FIELD**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	347
CONTRACT NO. 60X99				
ILLINOIS		FED. AID PROJECT		

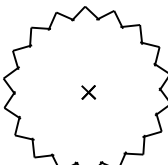
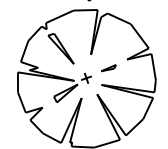


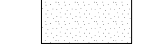



GENERAL NOTES:

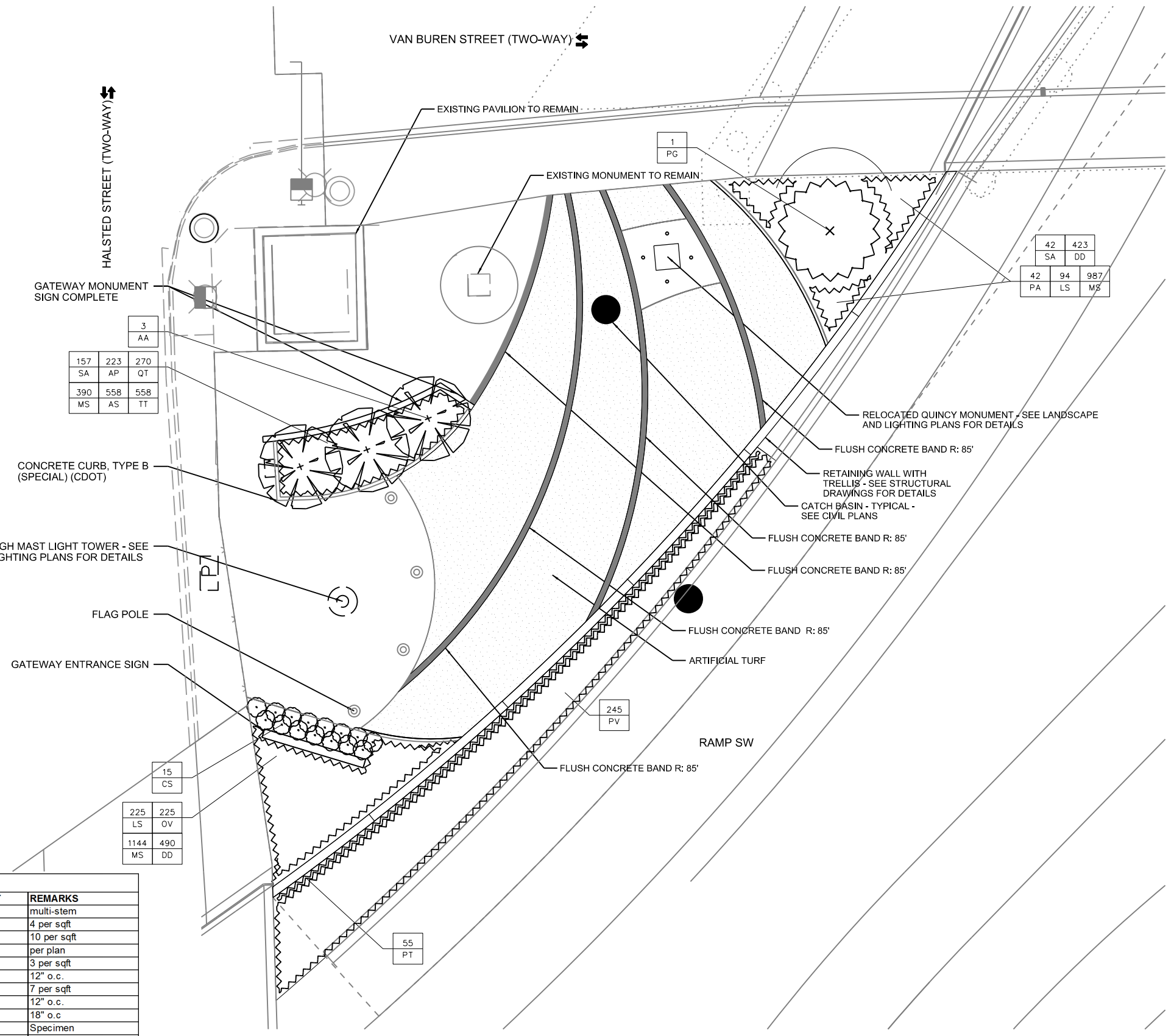
1. KEEP ALL AREAS CLEAN, NEAT AND ORDERLY AT ALL TIMES, CLEAR OF RUBBISH AND DEBRIS. LEGALLY DISPOSE OF ALL MATERIALS REMOVED FROM THE SITE.
2. DO NOT INTERFERE WITH THE DAILY OPERATIONS OR USE OF ADJACENT PROPERTIES INCLUDING BUT NOT LIMITED TO BUILDINGS, PARKING LOTS, STREETS OR ALLEYS.
3. VERIFY SITE CONDITIONS BEFORE PROCEEDING WITH WORK AND REPORT ANY CONFLICT TO ENGINEER.
4. VERIFY DIMENSIONS IN FIELD.
5. COORDINATE WORK WITH ALL OTHER TRADES.

LANDSCAPE NOTES:

1. FOR LANDSCAPE DETAILS, SEE SHEET 350

LEGEND

-  EVERGREEN TREE
-  ORNAMENTAL TREE
-  SHRUB
-  PERENNIAL BED PLANTING SOIL DEPTH AS SPECIFIED ON SHEET 347
-  ARTIFICIAL TURF
-  FLAG POLE
-  FLUSH CONCRETE BAND
-  FLUSH CONCRETE BORDER



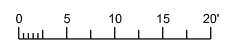
3	AA	
157	223	270
SA	AP	QT
390	558	558
MS	AS	TT

42	423	
SA	DD	
42	94	987
PA	LS	MS

15	CS
225	225
LS	OV
1144	490
MS	DD

CODE	QUANTITY	BOTANICAL NAME	COMMON NAME	SIZE	ROOT	REMARKS
AA	6	Amelanchier x grandiflora	Apple Serviceberry	12' H	B&B	multi-stem
AP	223	Allium 'Purple Sensation'	Purple Sensation Ornamental Onion	bulb	bulb	4 per sqft
AS	558	Allium sphaerocephalon	Durmstick Allium	bulb	bulb	10 per sqft
CS	15	Cornus sanguinea 'Midwinter Fire'	Midwinter Fire Blood Twig Dogwood	5 gal	pot	per plan
DD	913	Daffodil	Tete-a-Tete Daffodil	bulb	bulb	3 per sqft
LS	319	Liriope spicata	Lilyturf	4"	pot	12" o.c.
MS	2521	Muscari	Grape Hyacinth	bulb	bulb	7 per sqft
OV	225	Origanum vulgare 'Aureum'	Golden Oregano	4"	pot	12" o.c.
PA	42	Perovskia atriplicifolia 'Little Spire'	Little Spire Russian Sage	gal	pot	18" o.c
PG	1	Picea glauca 'Densata'	Black Hills Spruce	10' H	B&B	Specimen
PT	55	Parthenocissus tricuspidata	Boston Ivy	gal	pot	18" o.c
PV	245	Panicum virgatum 'Shenandoah'	Shenandoah Red Switch Grass	gal	pot	24" o.c.
QT	279	Tulipa 'Queen of Night'	Queen of Night Tulip	bulb	bulb	5 per sqft
SA	199	Sesleria autumnalis	Autumn Moor Grass	gal	pot	18" o.c
TT	558	Turkestanica	Turkestanica	bulb	bulb	10 per sqft

1 LANDSCAPE PLAN
1" = 10'-0"



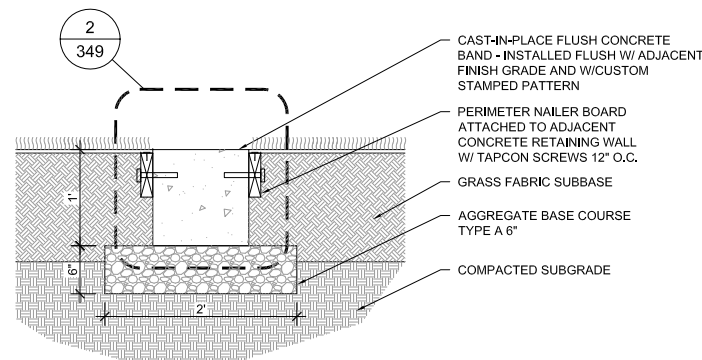
\$FILES\$	DESIGNED ECW	REVISED -
USER NAME = JR	DRAWN JT	REVISED -
PLOT SCALE = 1:20	CHECKED BK	REVISED -
PLOT DATE = 3/31/2017	DATE - 3/31/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

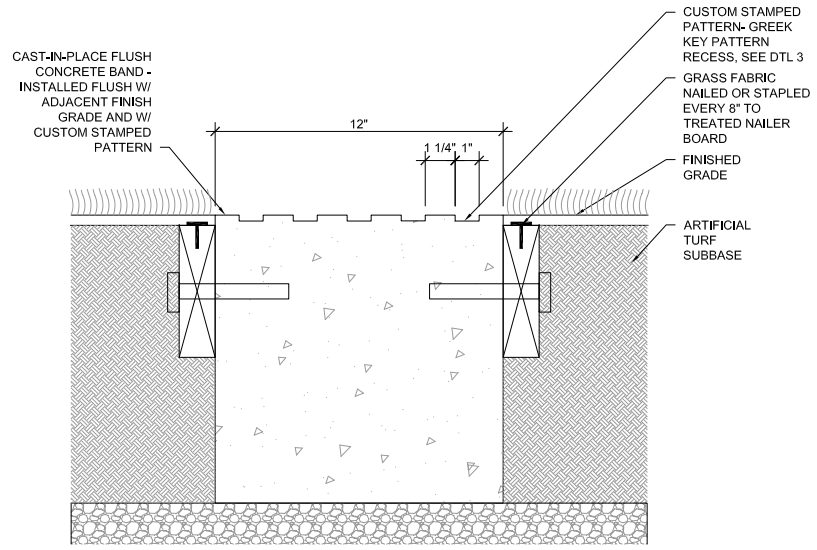
LANDSCAPING PLAN
ELYSIAN FIELD

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

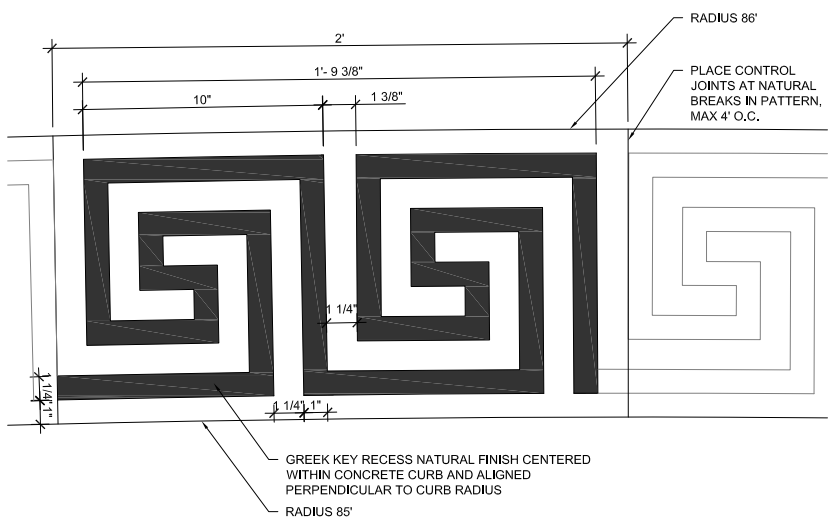
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	348
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



1 FLUSH CONCRETE BAND
1"=1'-0"

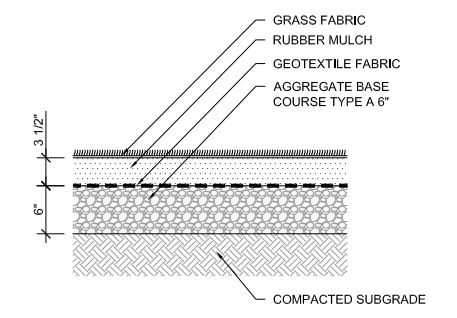


2 FLUSH CONCRETE BAND ENLARGEMENT
3"=1'-0"

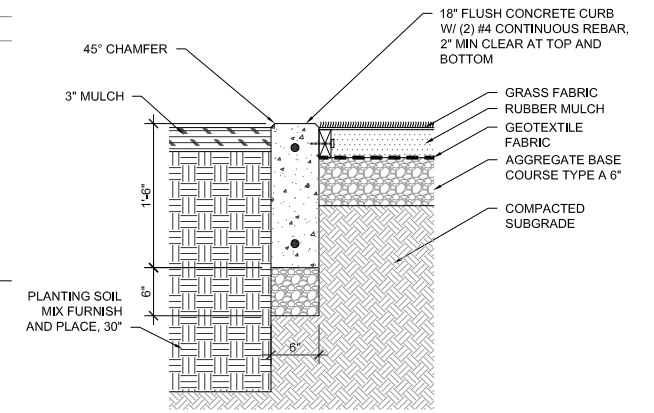


3 FLUSH CONCRETE BAND PATTERN DETAIL
3"=1'-0"

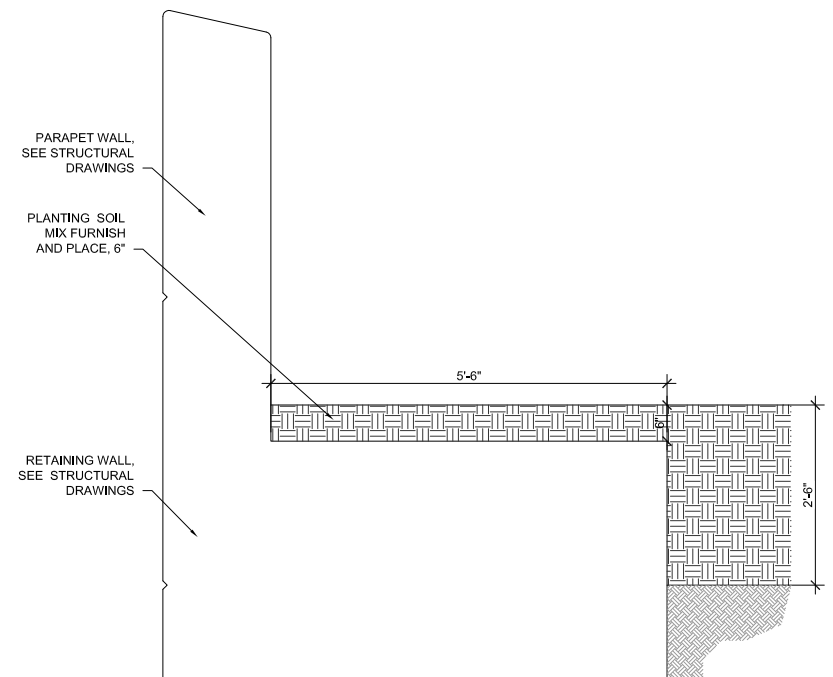
NOTES
1. OBTAIN VECTOR FILE FROM ENGINEER PRIOR TO PATTERN STAMP FABRICATION.



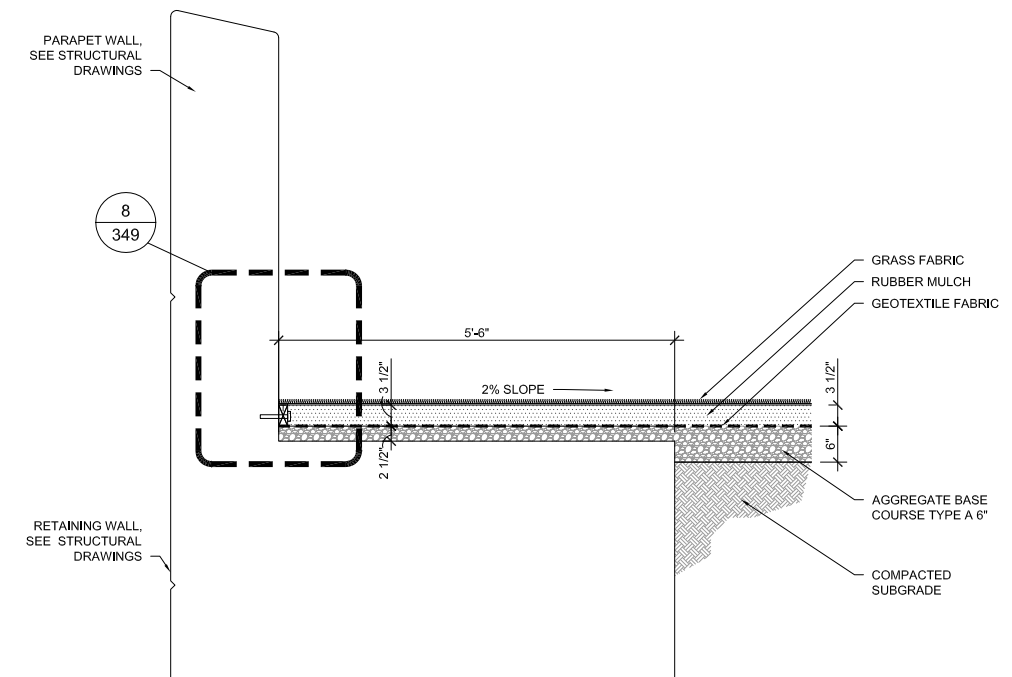
4 ARTIFICIAL TURF SECTION
1"=1'-0"



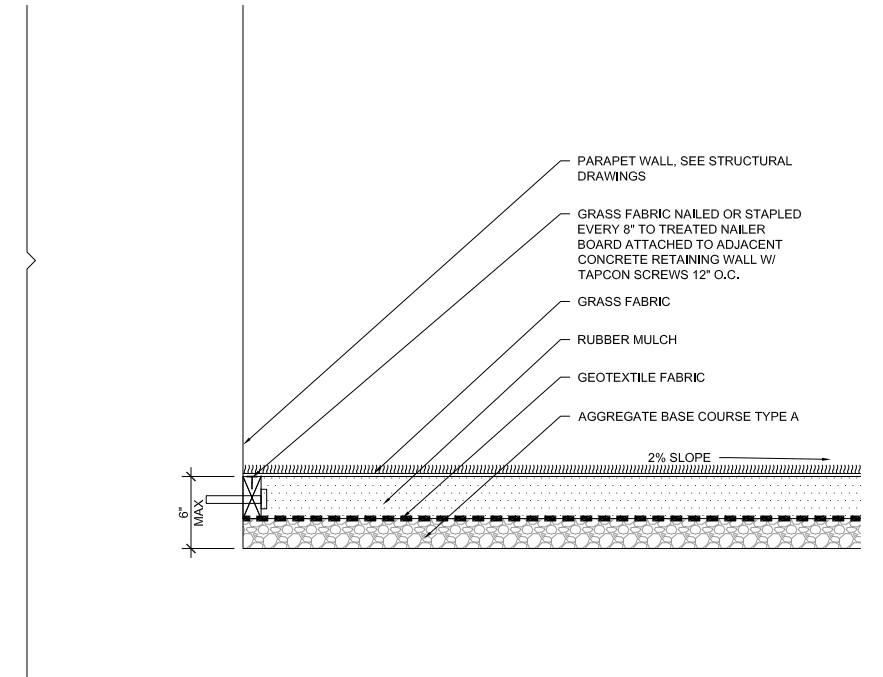
5 FLUSH CONCRETE BORDER
1"=1'-0"



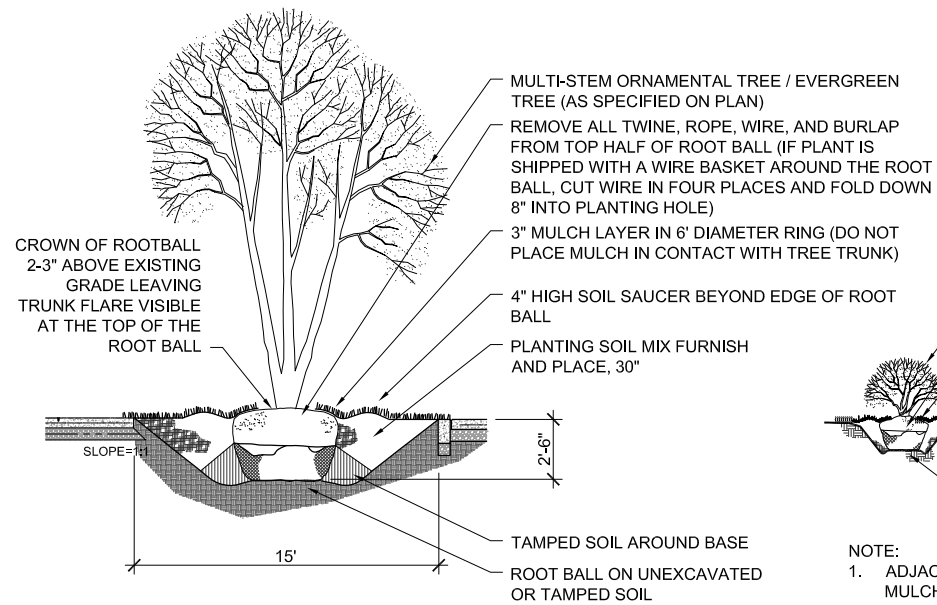
6 LANDSCAPE OVER RETAINING WALL CAP DETAIL
3/4"=1'-0"



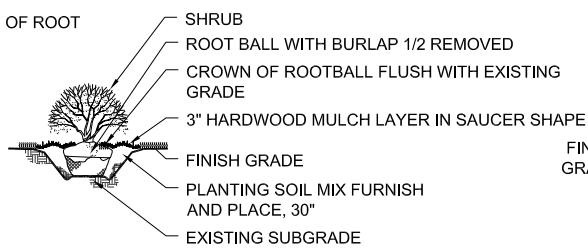
7 ARTIFICIAL TURF OVER RETAINING WALL CAP DETAIL
3/4"=1'-0"



8 ARTIFICIAL TURF OVER RETAINING WALL CAP ENLARGEMENT
1 1/2"=1'-0"

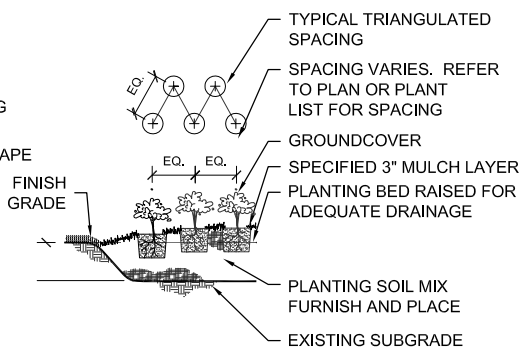


1 ORNAMENTAL TREE PLANTING SECTION
NOT TO SCALE

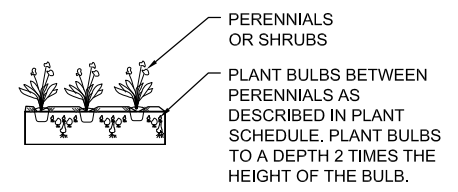


2 SHRUB PLANTING DETAIL
NOT TO SCALE

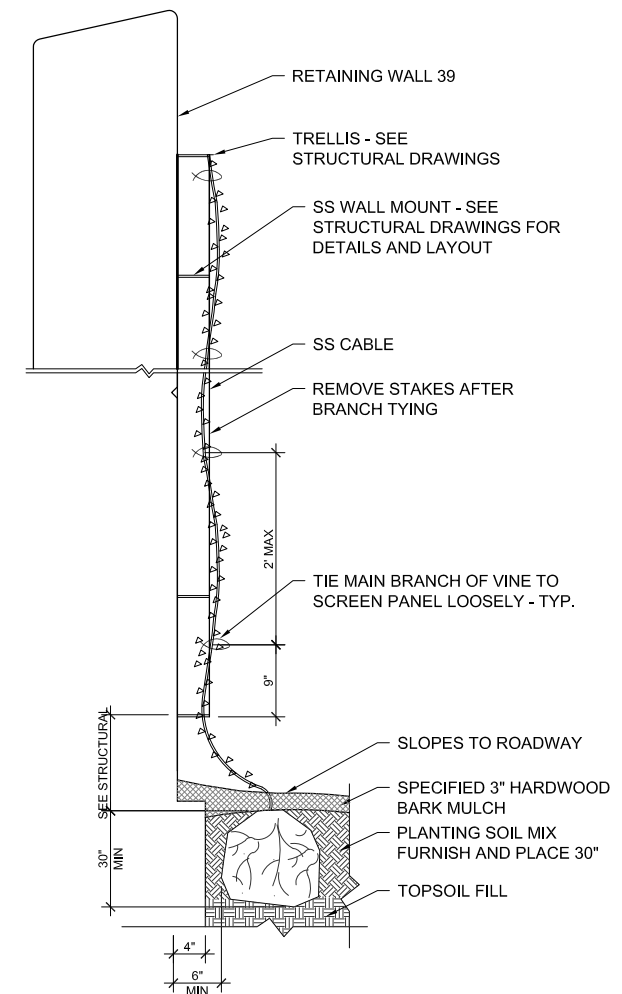
NOTE:
1. ADJACENT MULCH IS TO BE 3" HARDWOOD MULCH.



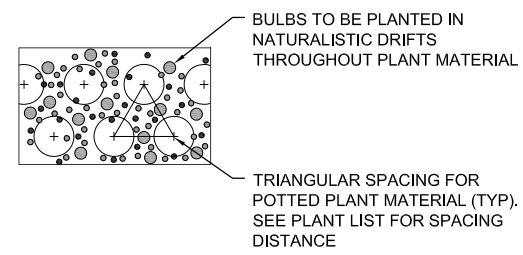
3 PERENNIAL PLANTING DETAIL
NOT TO SCALE



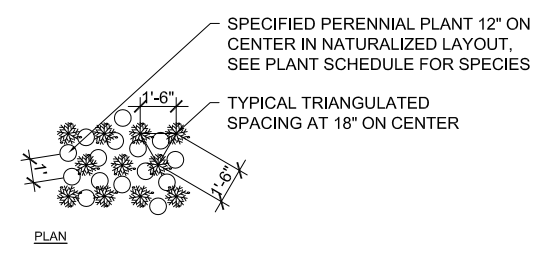
4 BULB PLANTING DETAIL
NOT TO SCALE



5 TRELLIS PLANTING DETAIL
NOT TO SCALE



6 INTERPLANTING DETAIL
NOT TO SCALE



7 INTERPLANTING DETAIL
NOT TO SCALE

FILE PATH - SFILES



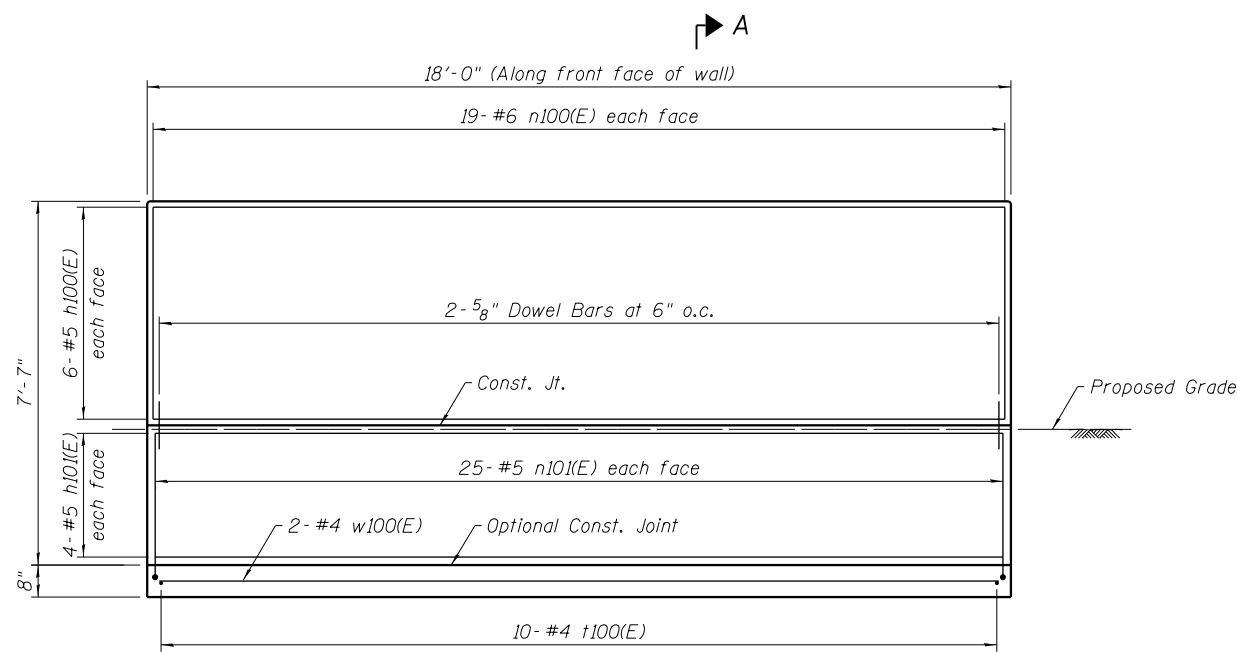
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USER NAME - SUSERS	DRAWN JT	REVISED -
PLOT SCALE - SSCALES	CHECKED BK	REVISED -
PLOT DATE - SDATES	DATE - 3/31/14	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

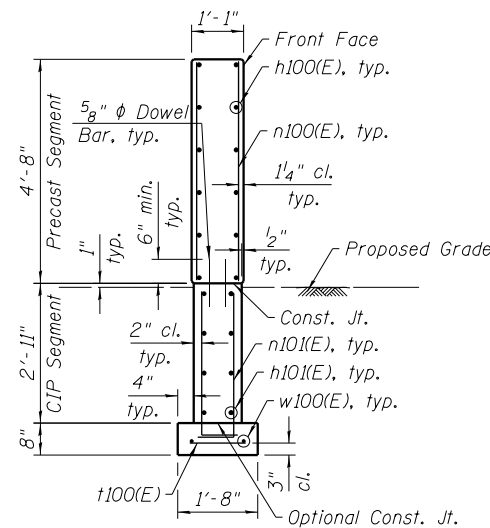
LANDSCAPING DETAILS

SCALE: AS NOTED SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	350
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



GATEWAY ENTRANCE SIGN ELEVATION
(Looking North)



SECTION A-A

BILL OF MATERIAL

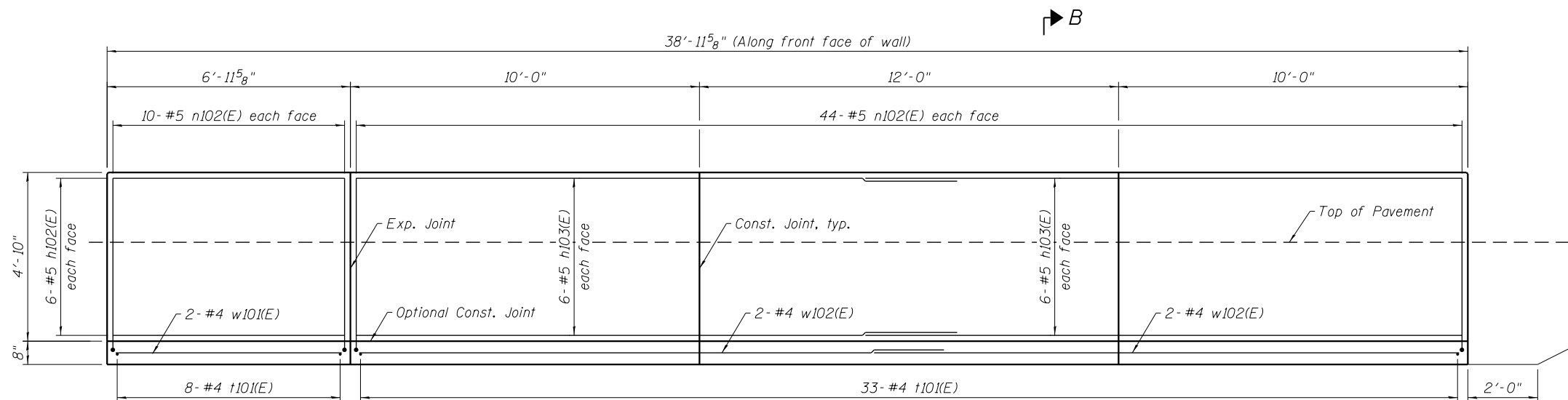
Bar	No.	Size	Length	Shape	
* h102(E)	12	#5	6'-7"	—	
* h103(E)	24	#5	17'-2"	—	
* n102(E)	108	#5	5'-8"	—	
* t101(E)	41	#4	1'-2"	—	
* w101(E)	2	#4	6'-5"	—	
* w102(E)	2	#4	16'-10"	—	
* Protective Coat				Sq. Yd.	23
* Structures Excavation				Cu. Yd.	80.9
* Concrete Structures				Cu. Yd.	8.6
* Reinforcement Bars, Epoxy Coated				Pound	870
Gateway Monument Sign Complete				Each	1

* For reference only. Cost included in Gateway Monument Sign Complete.

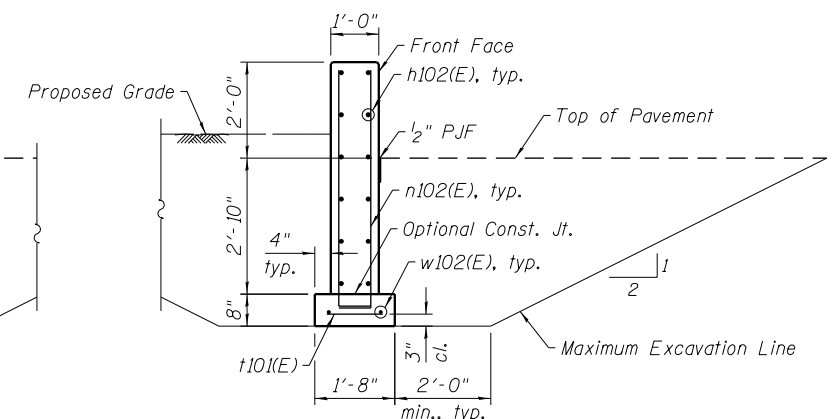
BILL OF MATERIAL

Bar	No.	Size	Length	Shape	
** h100(E)	12	#5	17'-10"	—	
** h101(E)	8	#5	17'-8"	—	
** n100(E)	38	#6	4'-7"	—	
** n101(E)	50	#5	3'-9"	—	
** t100(E)	20	#4	1'-2"	—	
** w100(E)	2	#4	17'-6"	—	
** Protective Coat				Sq. Yd.	22
** Dowel Bars 5/8"				Each	74
** Concrete Structures				Cu. Yd.	2.7
** Reinforcement Bars, Epoxy Coated				Pound	1,220
** Precast Wall Type A				Foot	18
** Gateway Entrance Sign				Each	1

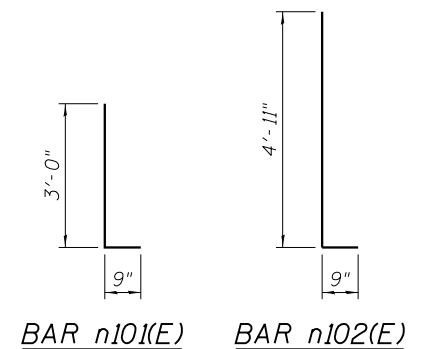
** For reference only. Cost included in Gateway Entrance Sign.



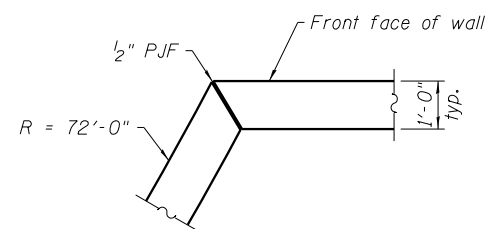
GATEWAY MONUMENT SIGN ELEVATION
(Looking South)



SECTION B-B



BAR n101(E) BAR n102(E)



EXPANSION JOINT DETAIL

MIN. LAP

- #4 2'-1"
- #5 2'-7"

NOTES:

1. See Elysian Field Sign plans for additional details.
2. Reinforcement bars designated (E) shall be epoxy coated.
3. Protective coat shall be applied to all exposed faces of signs.
4. Exposed concrete edges shall have a standard 1/2" chamfer UNO. Chamfer on vertical edges shall continue a minimum of 1'-0" below finished grade.
5. Maximum allowable bearing pressure is 2.0 ksf.
6. Maximum excavation slope is 1:2 (V:H).
7. 1/2" P.J.F. shall conform to Article 1051.09 of the Standard Specifications. Cost included with Gateway Monument Sign Complete.

3:08:52 PM C:\eek\Town-60X99-S01-WallDetails



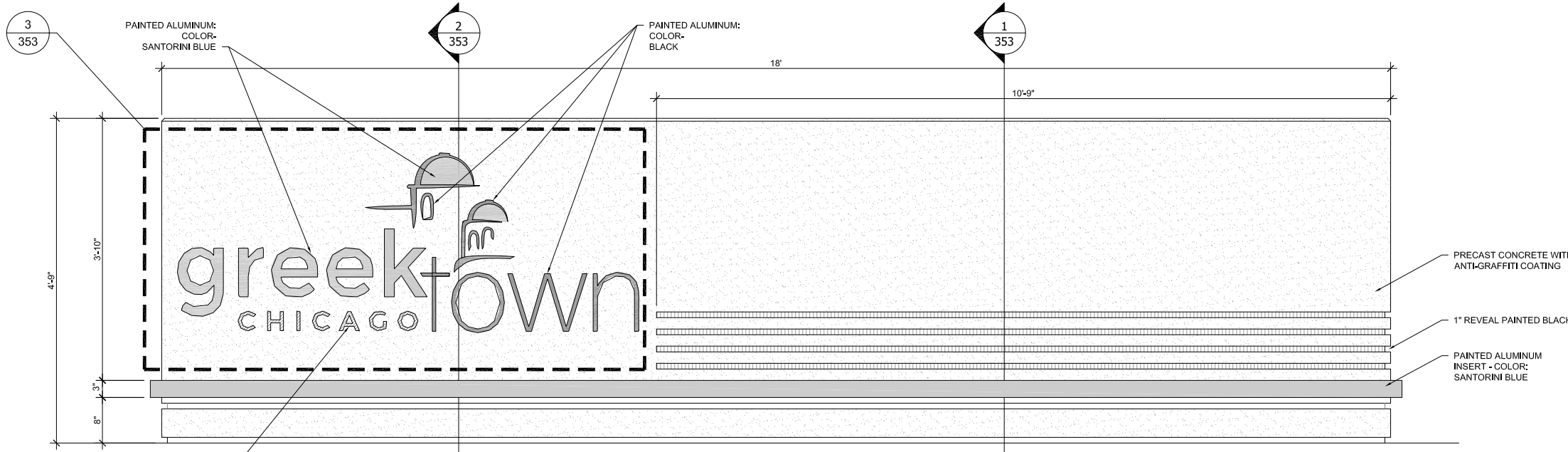
USER NAME = mkwilson	DESIGNED - TLR	REVISED -
PLOT SCALE = 4/8" 1' / in.	CHECKED - RVV	REVISED -
PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - RVV	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ELYSIAN FIELD
SIGN DETAILS**

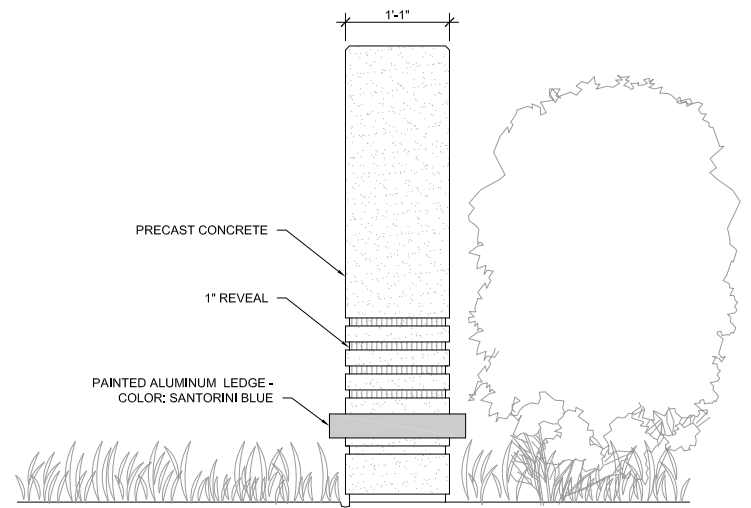
SHEET NO. 5 OF 8 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	351
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

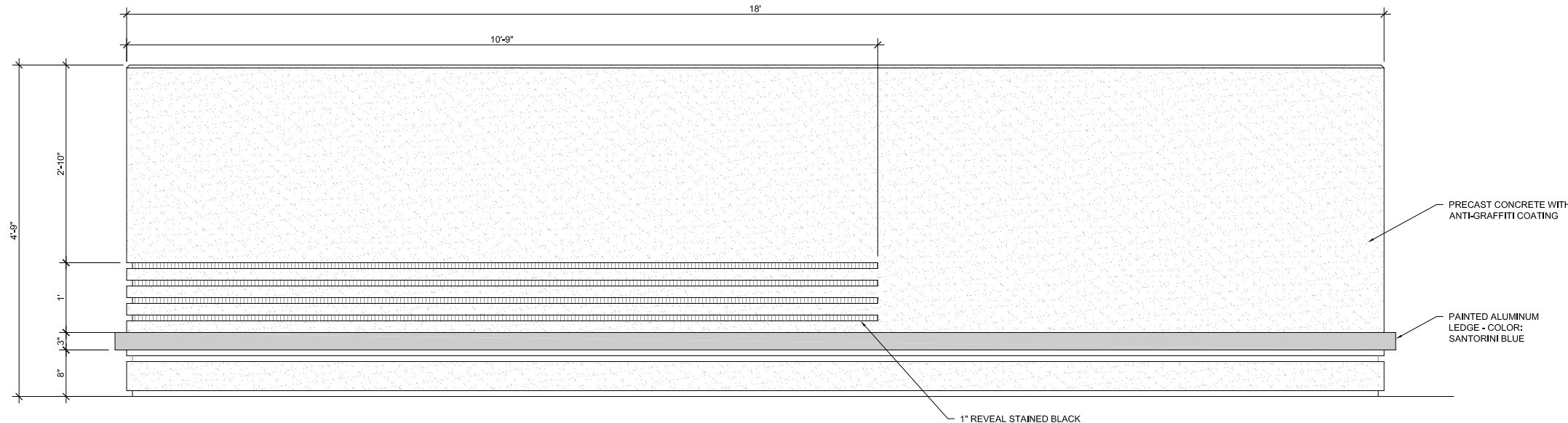


1 GATEWAY ENTRANCE SIGN ELEVATION - SOUTH
1" = 1'-0"

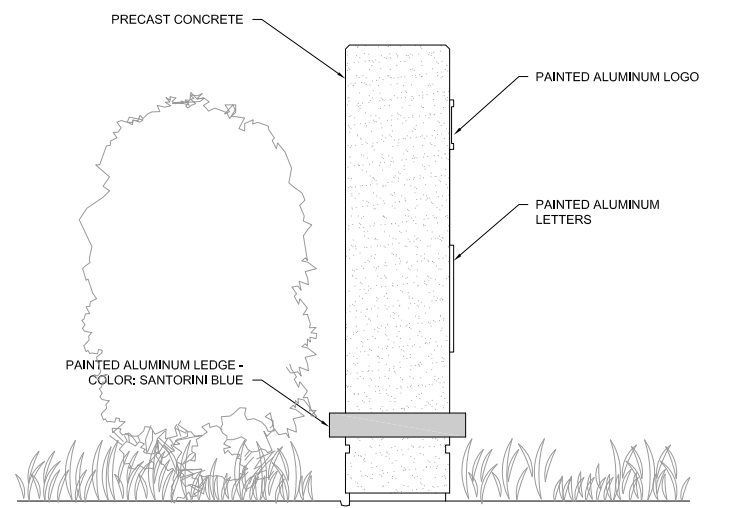
NOTES:
1. OBTAIN DIGITAL VECTOR FILE OF LOGO PRIOR TO FABRICATION OF METAL INSERT
2. PROVIDE GRAFFITI COATING PRIOR TO DELIVERY TO PROJECT SITE.



2 GATEWAY ENTRANCE SIGN ELEVATION - EAST
1" = 1'-0"








3 GATEWAY ENTRANCE SIGN ELEVATION - NORTH
1" = 1'-0"

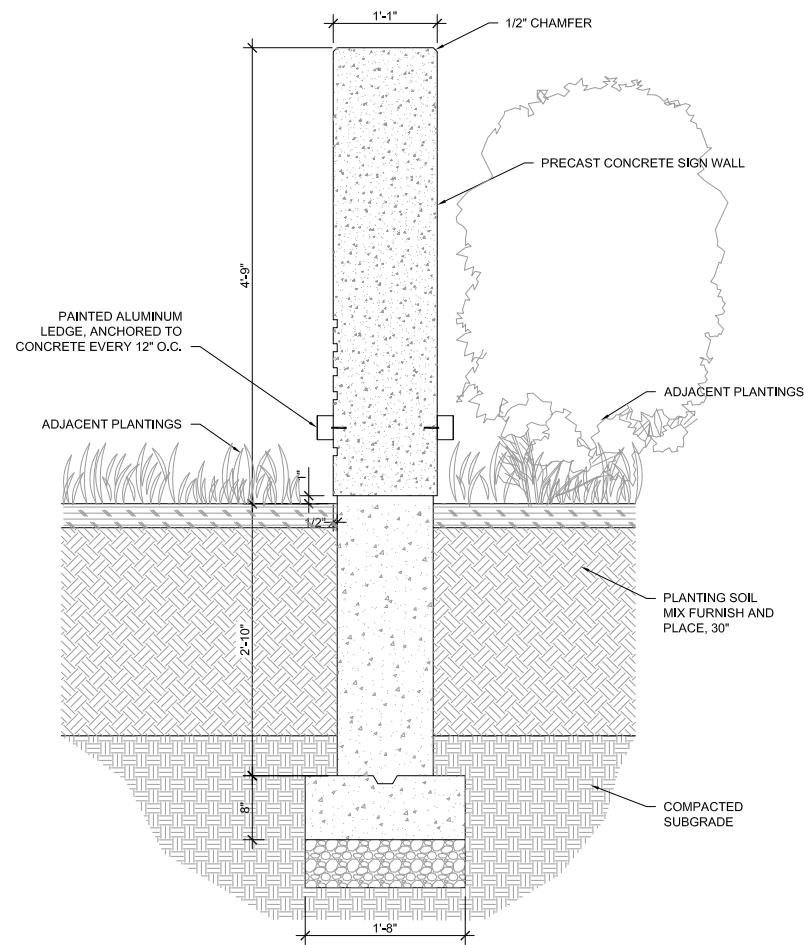


4 GATEWAY ENTRANCE SIGN ELEVATION - WEST
1" = 1'-0"

COLOR LEGEND

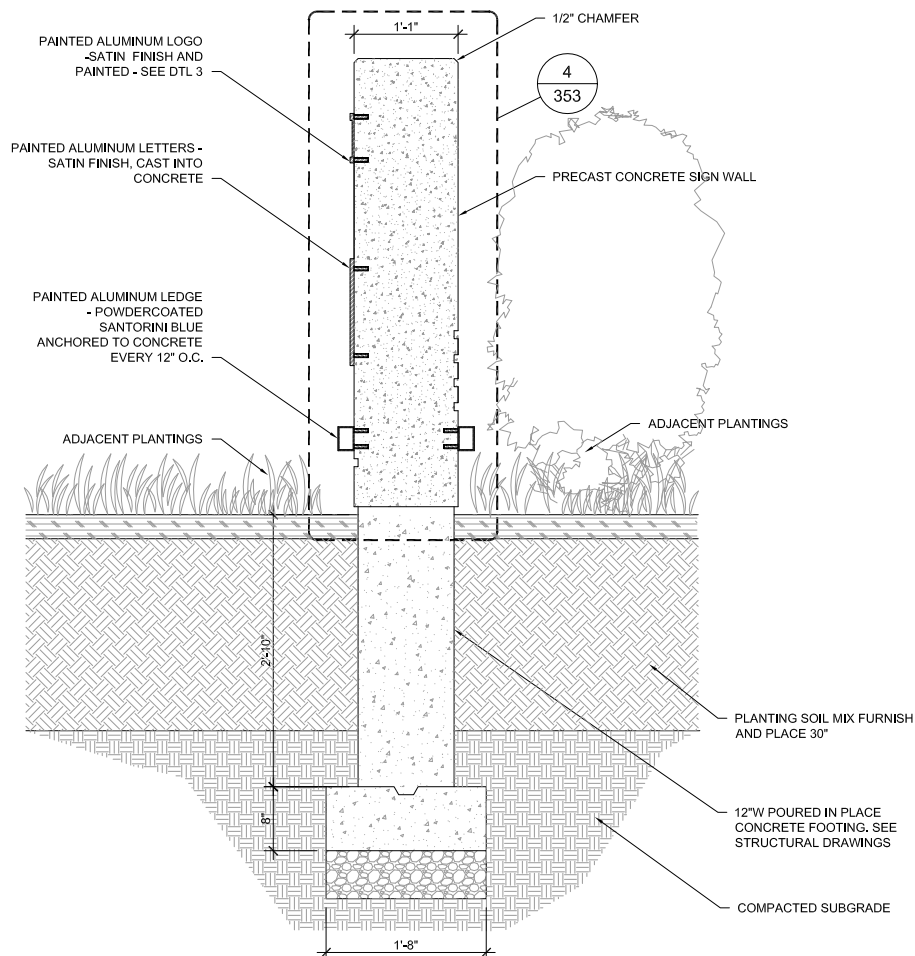
	PAINTED ALUMINUM INSERT - COLOR: BLACK		PRECAST CONCRETE COLOR: WHITE - SMOOTH FINISH
	PAINTED ALUMINUM LEDGE - COLOR: SANTORINI BLUE		PRECAST CONCRETE REVEAL: STAINED BLACK
	PAINTED ALUMINUM LEDGE - COLOR: COOL GRAY		

- NOTES:**
- GATEWAY ENTRANCE SIGN SHALL BE FABRICATED FROM A QUALIFIED SIGN MANUFACTURER AND SHALL COME TO THE PROJECT SITE COMPLETE.
 - ITEMS INCLUDED IN THE COST OF GATEWAY ENTRANCE SIGN:
 - PAINTED ALUMINUM LETTERS, LOGO AND LEDGE
 - ANTI-GRAFFITI COATING
 - PRECAST CONCRETE WALL AND ALL REINFORCEMENT RECOMMENDED BY MANUFACTURER
 - CAST-IN-PLACE FOUNDATION
 - DRAWINGS SHOW DESIGN INTENT ONLY. PRIOR TO FABRICATION, THE CONTRACTOR MUST PROVIDE PROFESSIONAL STRUCTURAL ENGINEERING FOR THE ENTRANCE SIGN, ENTRANCE SIGN COMPONENTS, ENTRANCE SIGN MOUNTING, AND HARDWARE. THE SEAL OF A LICENSED PROFESSIONAL STRUCTURAL ENGINEERING TO APPEAR ON THE SHOP DRAWINGS.
 - ALL WELDS TO BE GROUND SMOOTH FOR A SEAMLESS APPEARANCE.
 - APPLY ALL FINISHES IN STRICT ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS.
 - ALL CUT METAL PIECES SHALL BE WATERJET CUT. CAD ART FOR THE LOGO AND LETTERS TO BE PROVIDED BY COMMISSIONER.
 - SEE STRUCTURAL DRAWINGS FOR FOUNDATION DETAILS.



NOTE: FOR REINFORCEMENT DETAILS, SEE STRUCTURAL DRAWINGS

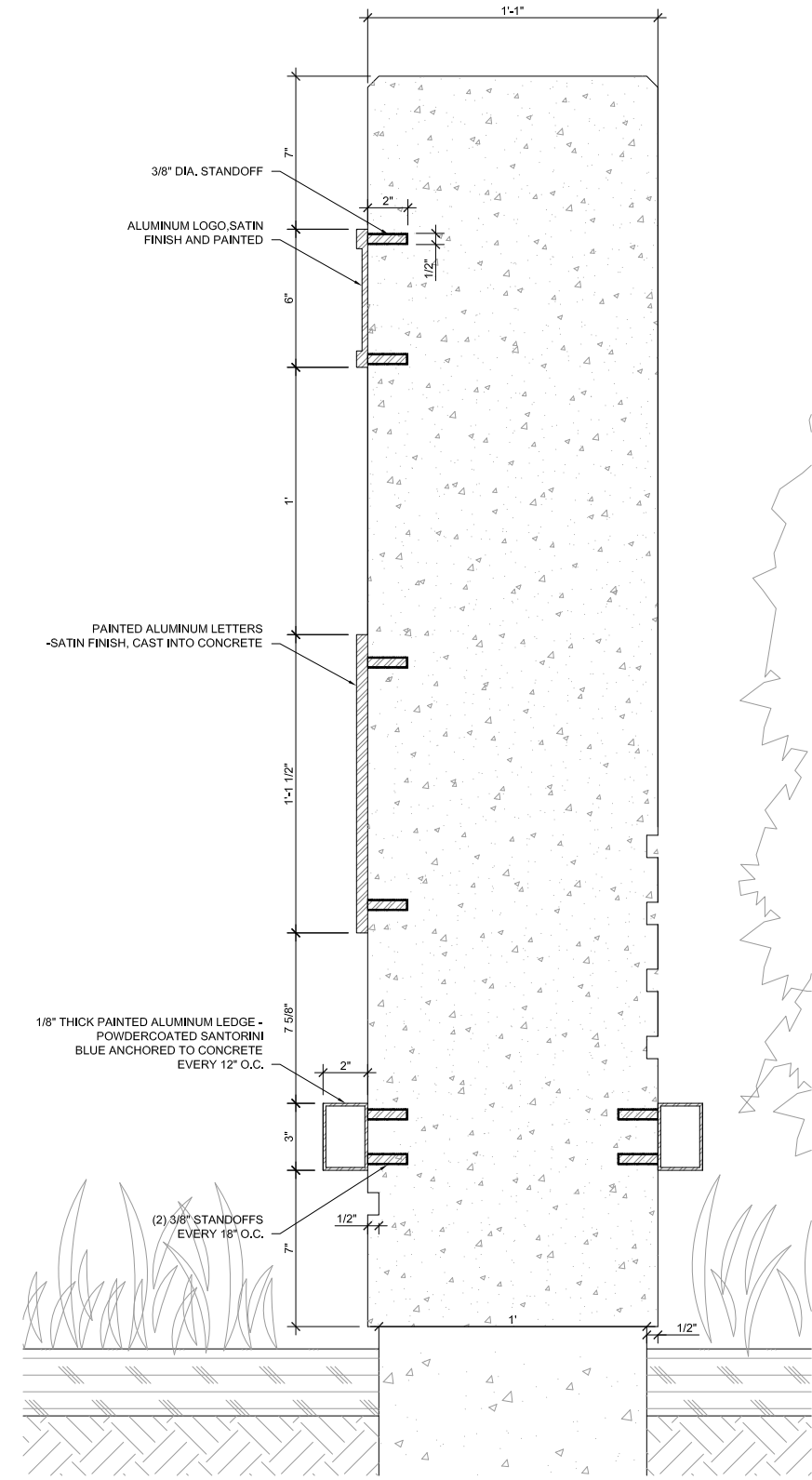
1 GATEWAY ENTRANCE SIGN SECTION
1" = 1'-0"



2 GATEWAY ENTRANCE SIGN
1" = 1'-0"



3 GATEWAY LOGO ENLARGEMENT DETAIL
1 1/2" = 1'-0"



4 GATEWAY ENTRANCE SIGN ENLARGED SECTION DETAIL
3" = 1'-0"

3 TIMES
SCALE



USER NAME = USER	DESIGNED -	REVISD -
PLOT SCALE = SCALE	CHECKED -	REVISD -
PLOT DATE = DATE	DRAWN -	REVISD -
	CHECKED -	REVISD -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ELYSIAN FIELD SIGN DETAILS

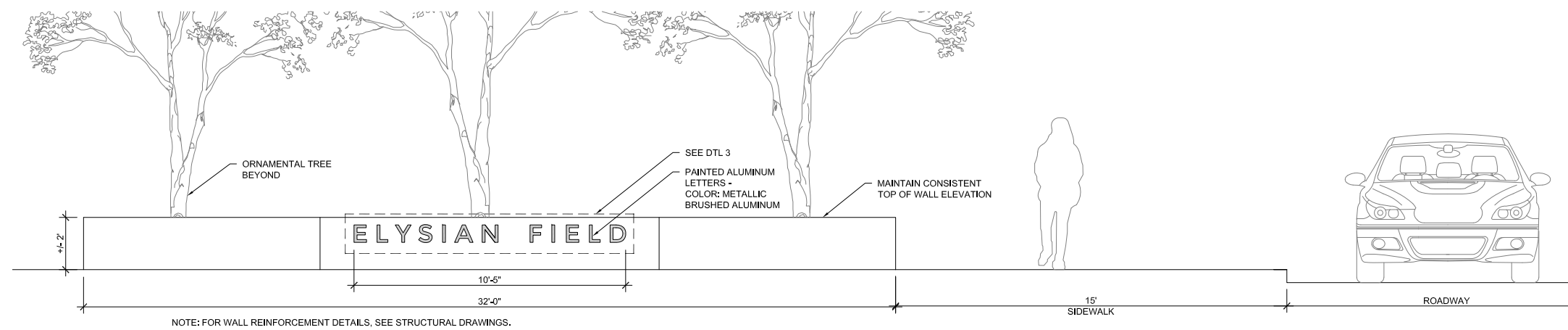
SCALE: AS NOTED SHEET NO. 3 OF 4 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	353
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

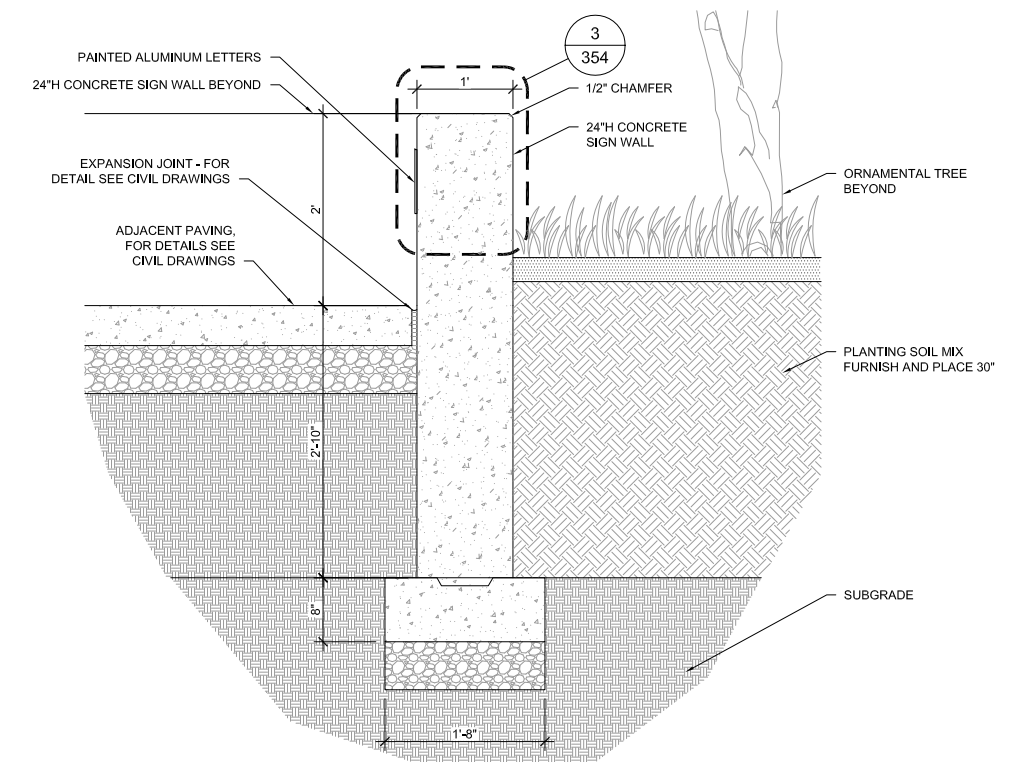
NOTES

ITEMS INCLUDED IN THE COST OF GATEWAY MONUMENT SIGN:

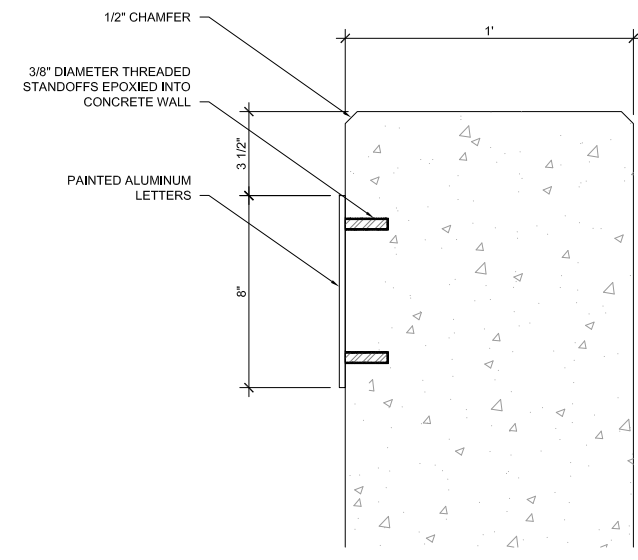
1. PAINTED ALUMINUM LETTERS
2. ANTI-GRAFFITI COATING
3. CAST-IN-PLACE CONCRETE WALL
4. CAST-IN-PLACE FOUNDATION



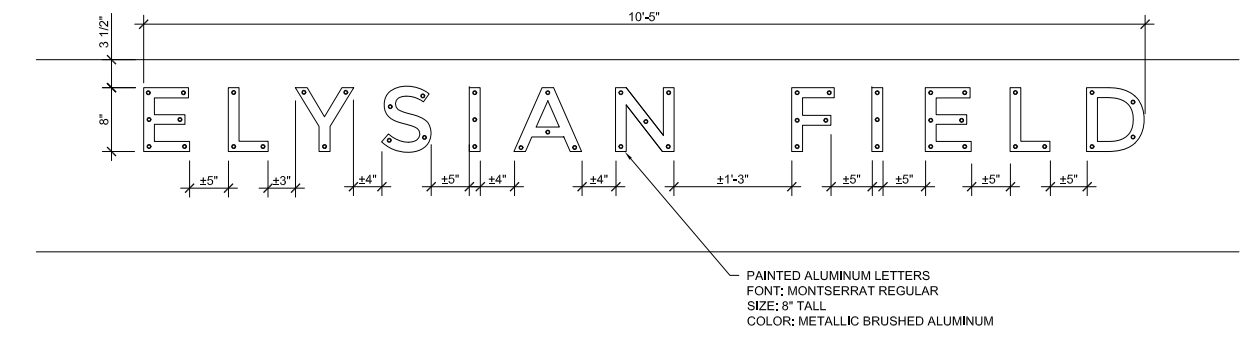
1 GATEWAY MONUMENT SIGN COMPLETE ELEVATION - NORTH
3/8"=1'-0"



2 GATEWAY MONUMENT SIGN COMPLETE - SECTION DETAIL
1" = 1'-0"

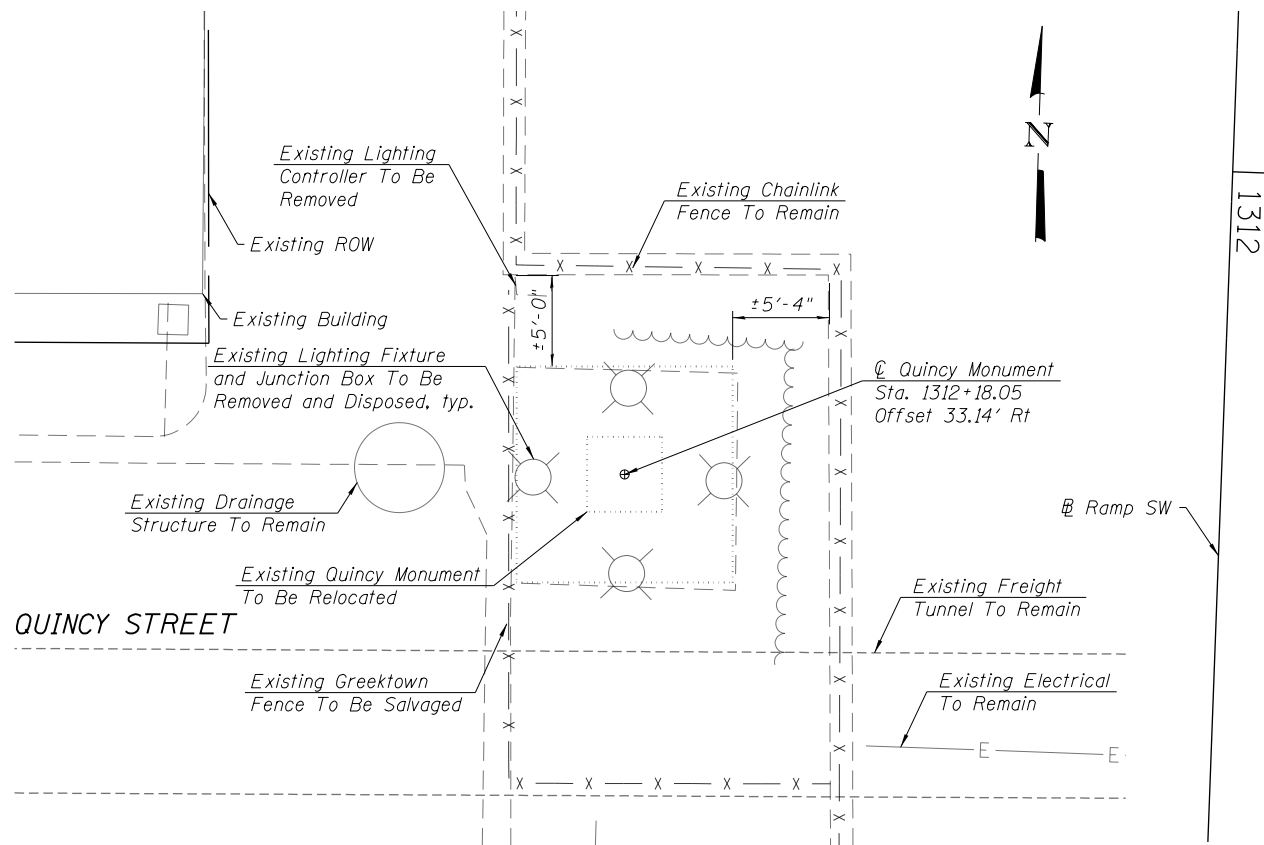


3 LETTER INSERT ENLARGEMENT DETAIL
3" = 1'-0"

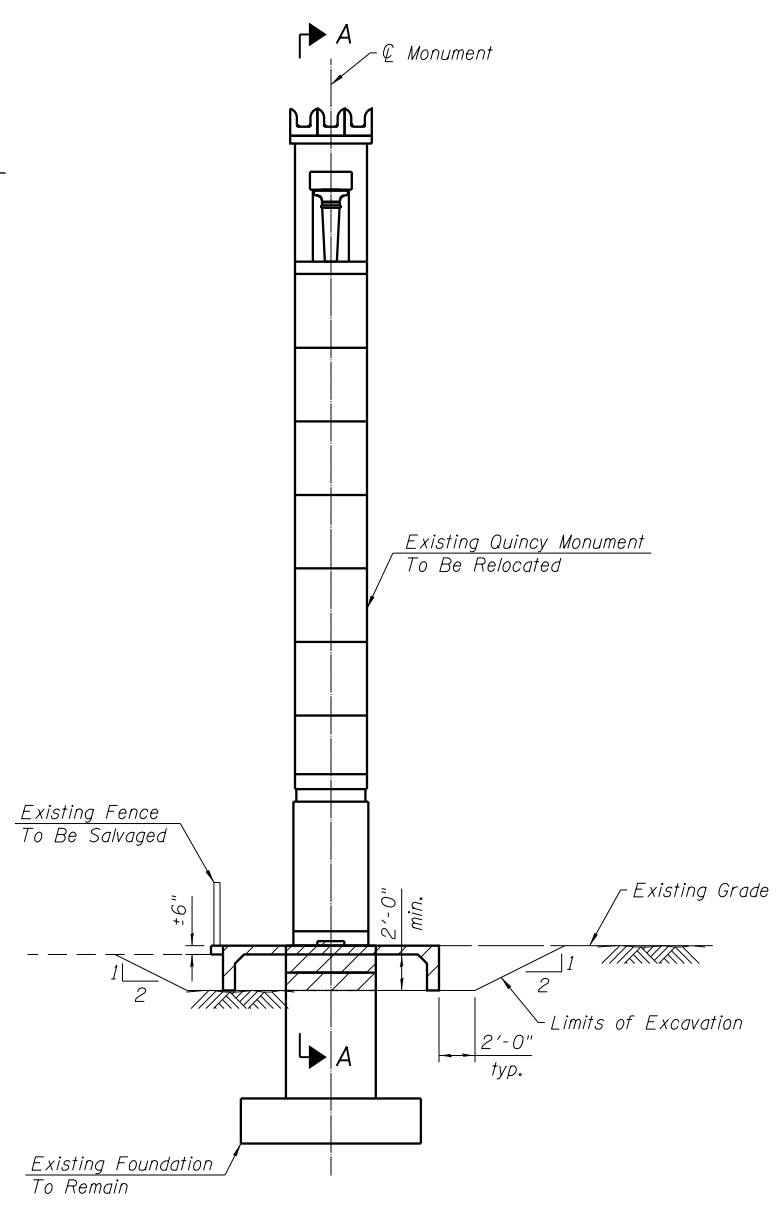


4 GATEWAY MONUMENT SIGN COMPLETE - ENLARGED ELEVATION
1"=1'-0"

SITIMES SFILLESS

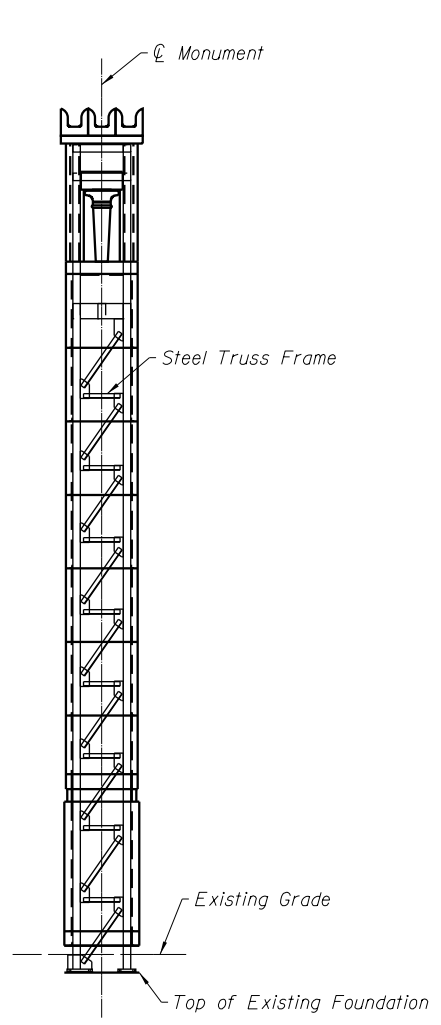


PLAN



ELEVATION

(Looking West)
(Existing lighting receptacles not shown)



SECTION A-A

(Foundation not shown for clarity)

LEGEND

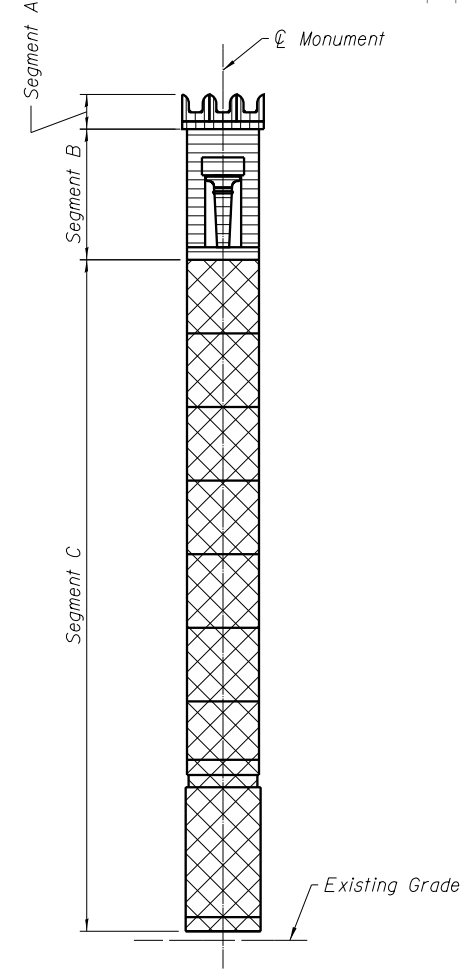
- Concrete Removal
- Segment A
- Segment B
- Segment C

SUGGESTED DISASSEMBLY SEQUENCE

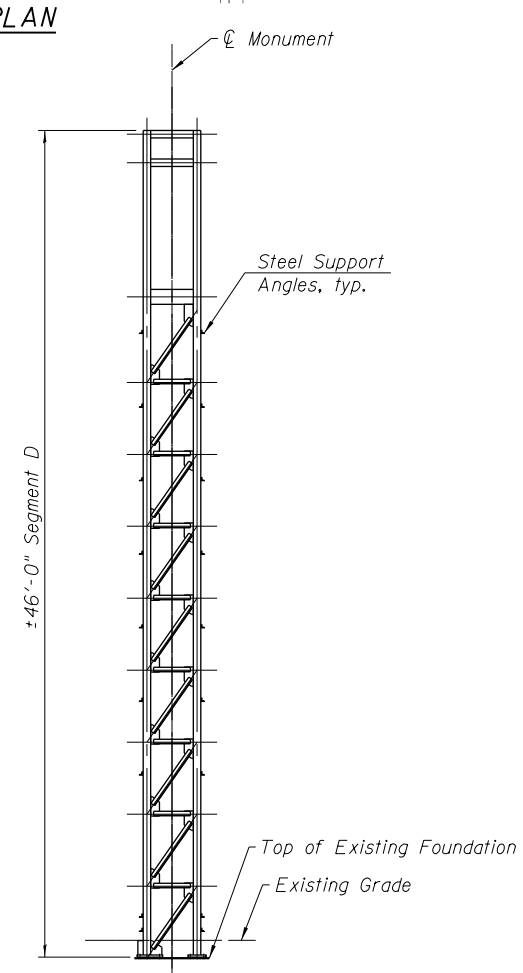
1. Build scaffold to access top of monument.
2. Remove caulking and/or mortar joints in Segments A and B to locate anchoring dowels or pins.
3. Cut dowels or pins and use stone clamps or belts to lift off masonry pieces in Segments A and B using a crane. Removing Segment A will reveal the steel truss frame.
4. Remove caulking and/or mortar joints in Segment C to locate steel support angles.
5. Lift off vertical masonry panels in Segment C with stone clamps or belts using a crane. Any damage to support angles during masonry removal shall be repaired or replaced at the Contractor's expense.
6. Carefully remove concrete around steel truss with chipping hammers to expose bearing plates and anchor bolts, and detach from foundation. Concrete pad and foundation shall be removed a minimum of 1'-0" below existing grade.
7. Lift off steel truss frame, Segment D, from foundation as one piece using a crane.
8. Load truss and all masonry components onto truck for delivery to the proposed relocation site.

NOTES

1. All dimensions taken from record drawings (included in the plans): Greek Town Development, dated April 26, 1996. Existing plans can be provided at the request of the Contractor.
2. Contractor shall verify the existing location of the Quincy Monument, and all dimensions and sizes prior to disassembly. Contractor must report any discrepancies to the Engineer before proceeding.
3. All masonry and steel pieces must be catalogued prior to and during the work according to the Special Provision, Remove and Relocate Existing Monument.
4. The maximum allowable excavation slope is 1:2 (V:H).
5. See Quincy Monument Plan for additional site details.
6. Cost of new dowels or pins, and installation included in Remove and Relocate Existing Monument.
7. Existing lighting receptacle, conduits, and connections in the monument shall be removed. See lighting plans for additional details.
8. Stations and offset are measured to the Ramp SW .



MASONRY DISASSEMBLY



STEEL TRUSS FRAME

3:08:58 PM Monument-60X99-S01-Removal



USER NAME = mkwilson	DESIGNED - TLR	REVISED -
	CHECKED - WJC	REVISED -
PLOT SCALE = 1/8" = 1' / in.	DRAWN - TLR	REVISED -
PLOT DATE = 12/15/2016	CHECKED - WJC	REVISED -

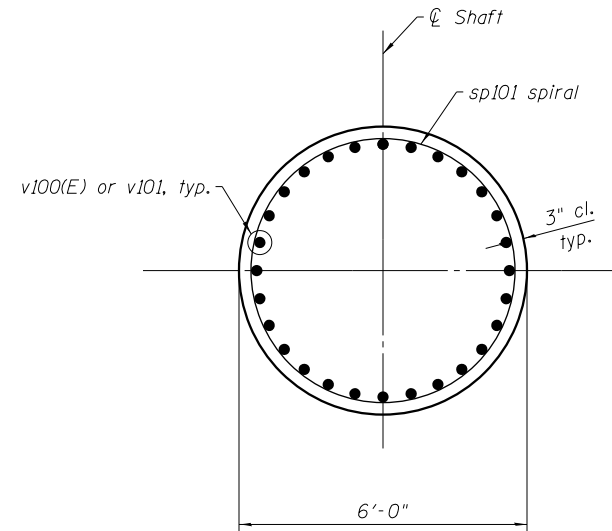
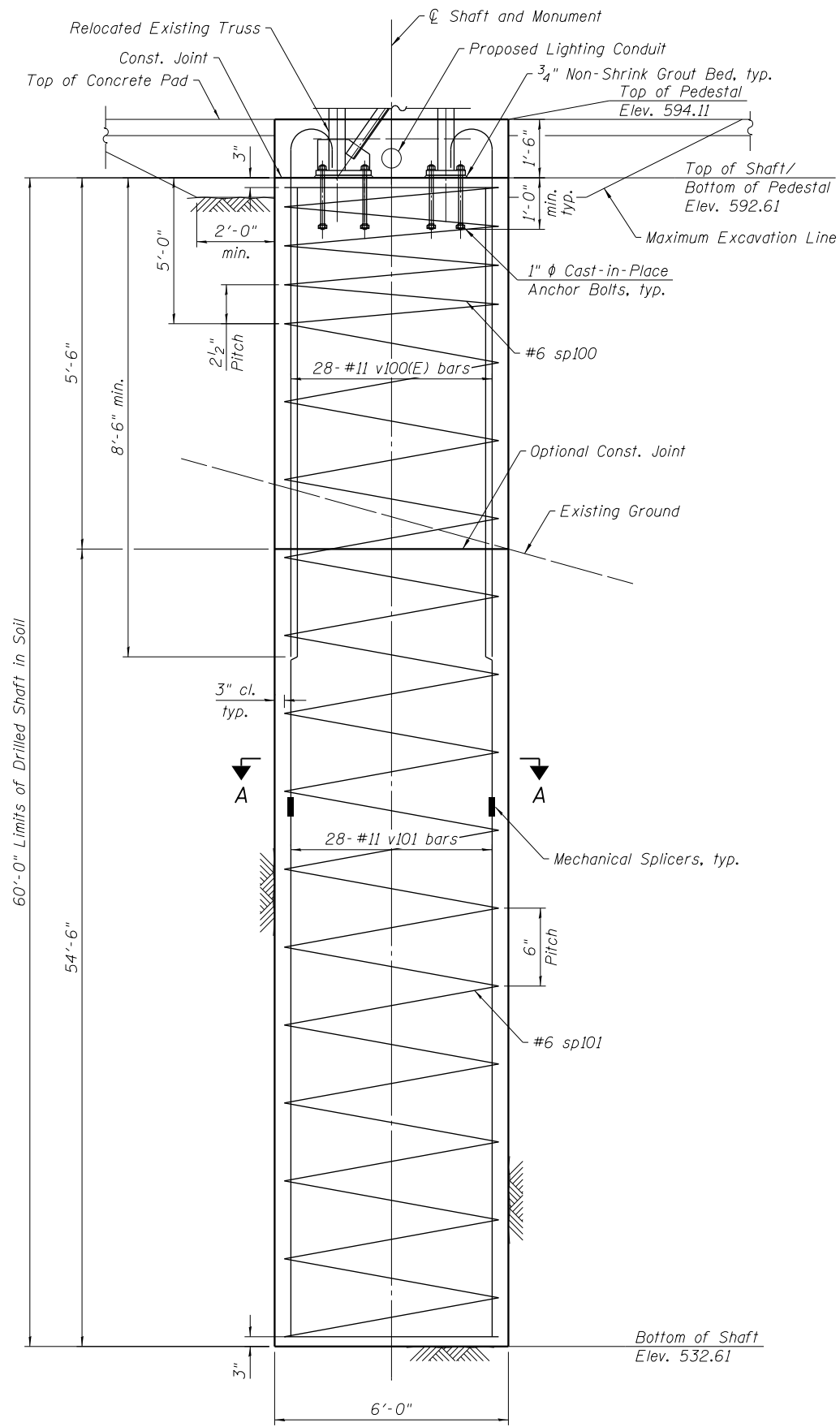
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONUMENT RELOCATION
REMOVAL AND DISASSEMBLY PLAN**

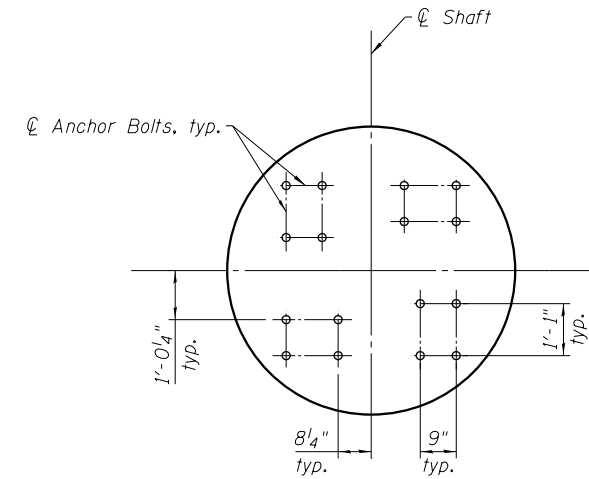
SHEET NO. MON-1 OF MON-7 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 355
CONTRACT NO. 60X99				

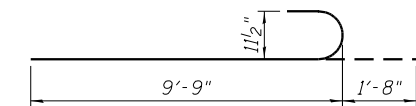
ILLINOIS FED. AID PROJECT



SECTION A-A



ANCHOR BOLT LAYOUT



BAR v100(E)

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
* sp100	1	#6	4'-9"	⌘
* sp101	1	#6	54'-9"	⌘
v100(E)	28	#11	11'-5"	⌘
v101	56	#11	29'-9"	⌘
** Anchor Bolts			Each	16
Concrete Structures			Cu. Yd.	1.6
Reinforcement Bars			Pound	12,420
Reinforcement Bars, Epoxy Coated			Pound	1,700
Mechanical Splicers			Each	28
Drilled Shaft in Soil			Cu. Yd.	62.9
Crosshole Sonic Logging			Each	1

* Length is height of spiral
 ** Shown for information only. Cost included with Remove and Relocate Existing Monument.

NOTES:

- 1" ϕ anchor bolts included in cost of Remove and Relocate Existing Monument. Space anchor bolts to avoid shaft reinforcement.
- See Lighting plans for lighting and conduit details.
- See Grading and Retaining Wall 39 plans for additional details.
- Work this sheet with Sheet MON-3.
- The Contractor shall exercise extreme caution during construction to make certain that construction activities, live load surcharge, and other loads applied to the structures will not have detrimental effects on the adjacent existing structures.
- The Contractor shall field verify locations of existing underground utilities. The Contractor shall take precautions to protect existing utilities during construction of the foundation. Any damage to the existing utilities shall be the responsibility of the Contractor.
- Concrete for Drilled Shaft shall be in accordance with Section 516 of the Standard Specifications and shall have the minimum compressive strength of 7,000 psi at 14 days.
- Limited groundwater elevation data is available in the boring logs. In addition, groundwater may also be present in deeper granular layers. The groundwater may rise in the shaft to an elevation above top of granular layers. The Contractor shall consider this information when choosing construction methods. The Contractor shall not be compensated for issues related to groundwater elevation.
- When splicing spiral reinforcement is necessary, the spiral shall be provided with 1/2 extra turns at the ends to be spliced. These additional turns shall either be welded together according to AWS D1.4 or shall both terminate with a 135° standard hook.
- Maximum excavation slope is 1:2 (V:H).

ELEVATION

(Looking North)
 (Masonry panels not shown for clarity)

3:09:04 PM Monument-60X99-S02-FanDetails



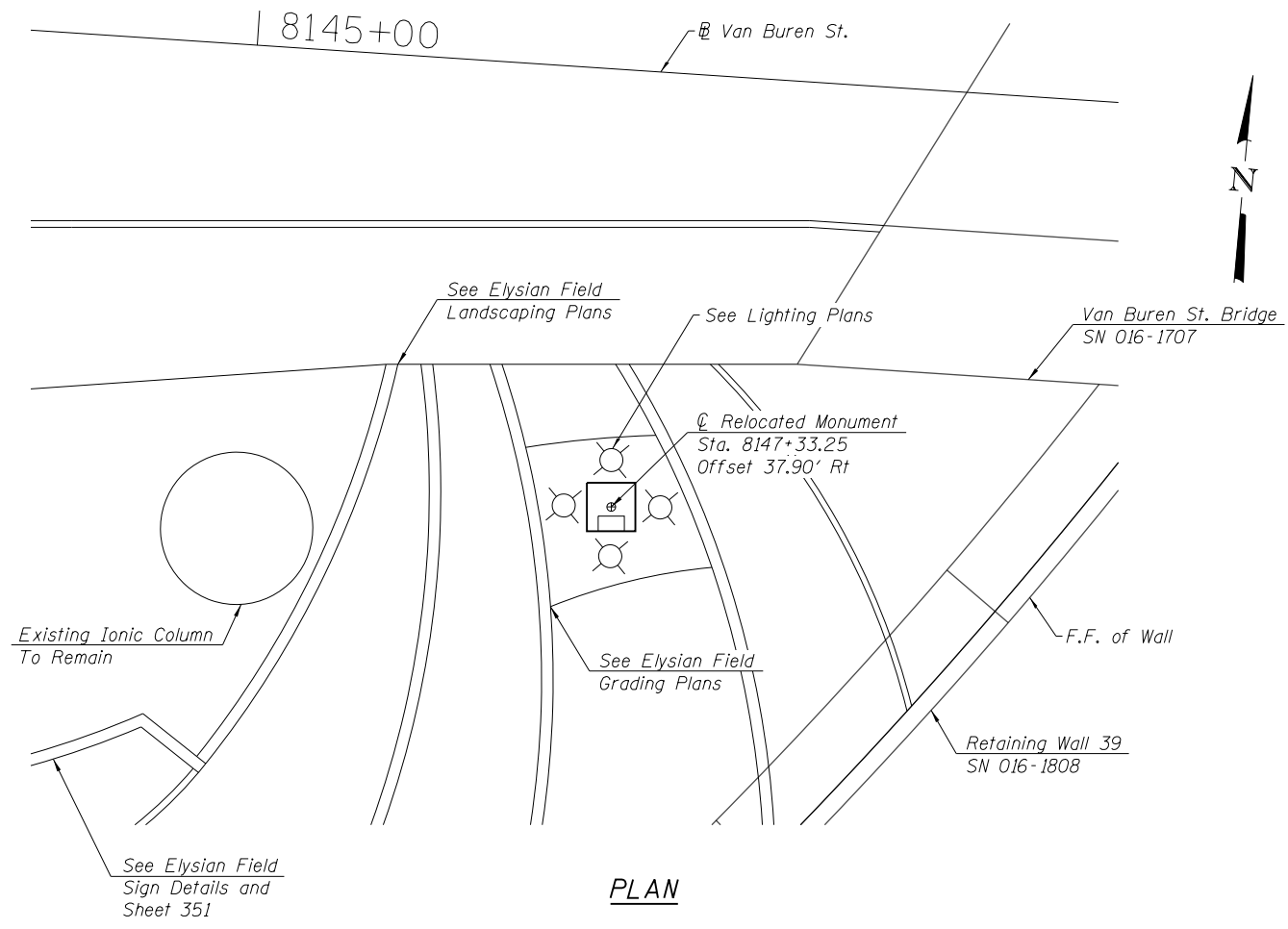
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PLOT SCALE = 4/8" 1' / 1/4"	CHECKED - WJC	REVISED -
PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - WJC	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

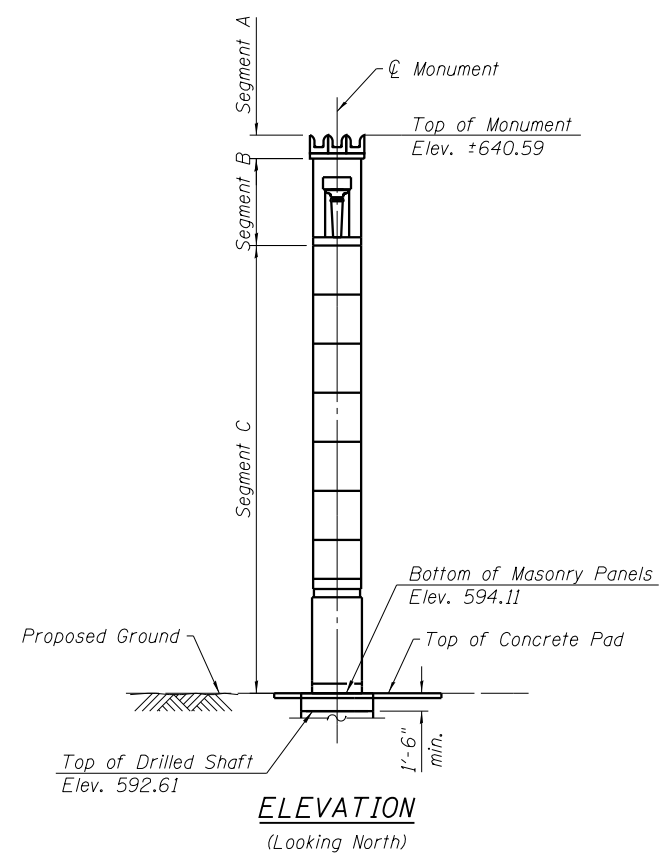
MONUMENT RELOCATION
 FOUNDATION DETAILS

SHEET NO. MON-2 OF MON-7 SHEETS

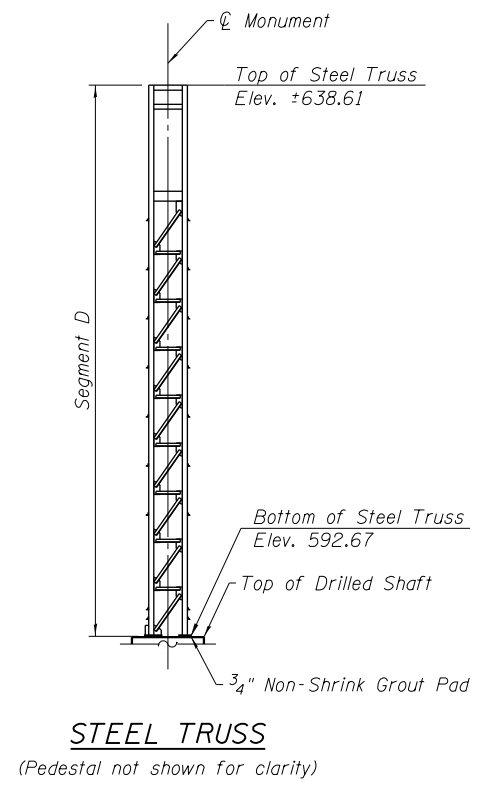
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	356
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



PLAN



ELEVATION
(Looking North)



STEEL TRUSS

(Pedestal not shown for clarity)

SUGGESTED REASSEMBLY SEQUENCE

- Note: Work with Retaining Wall 39 Suggested Construction Sequence on Sheet RW-2 .
1. Install drilled shaft foundation.
 2. Lift steel truss frame, Segment D, onto proposed foundation and connect to cast-in-place anchor bolts.
 3. Install new dowels or pins.
 4. Lift, place, and connect masonry panels from Segment C to steel support angles. Set panels with caulk or mortar.
 4. Lift, place, and connect masonry pieces from Segments A and B. Set panels with caulk or mortar.

NOTES

1. The maximum allowable excavation slope is 1:2 (V:H).
2. Work this sheet with Sheets MON-1&MON-2.
3. See grading, landscaping, and Retaining Wall 39 plans for additional details.
4. Cost of proposed lighting receptacle and conduit, and installation included in Remove and Relocate Existing Monument. See Lighting plans for additional details.
5. All damaged areas of the steel truss paint system shall be repaired in kind, and the cost shall be included in Remove and Relocate Existing Monument.
6. Caulk and/or mortar samples shall be submitted to the Engineer for approval.

BILL OF MATERIAL

Item	Unit	Total
Remove and Relocate Existing Monument	Each	1

3:09:08 PM Monument-60X99-S03-Reassembly



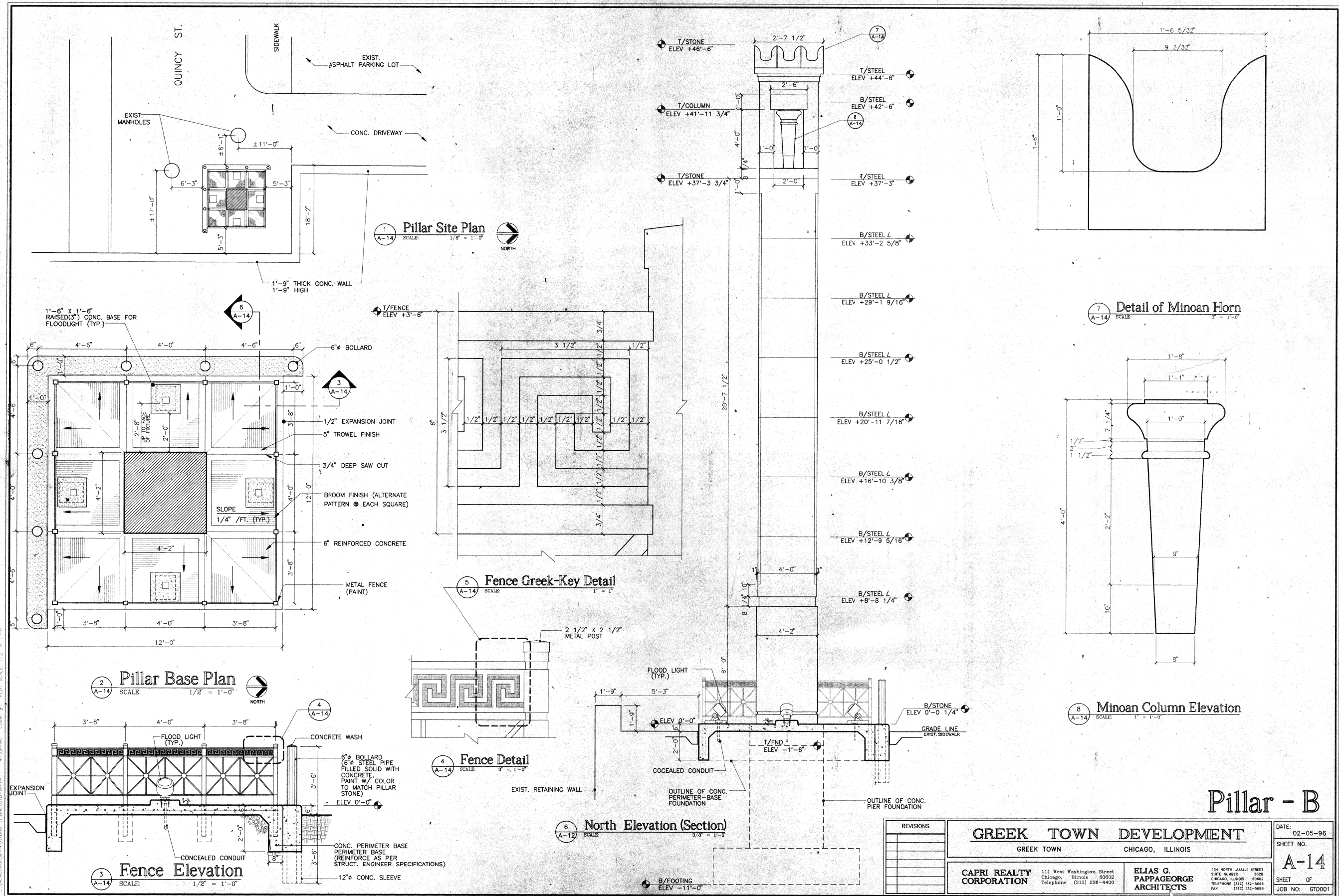
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	CHECKED - WJC	REVISED -
PLOT SCALE = 1/8" = 1'-0"	DRAWN - TLR	REVISED -
PLOT DATE = 12/15/2016	CHECKED - WJC	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONUMENT RELOCATION
REASSEMBLY PLAN**

SHEET NO. MON-3 OF MON-7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	357
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



3:09:10 PM
Monument-60X99-S04-AsBjlit



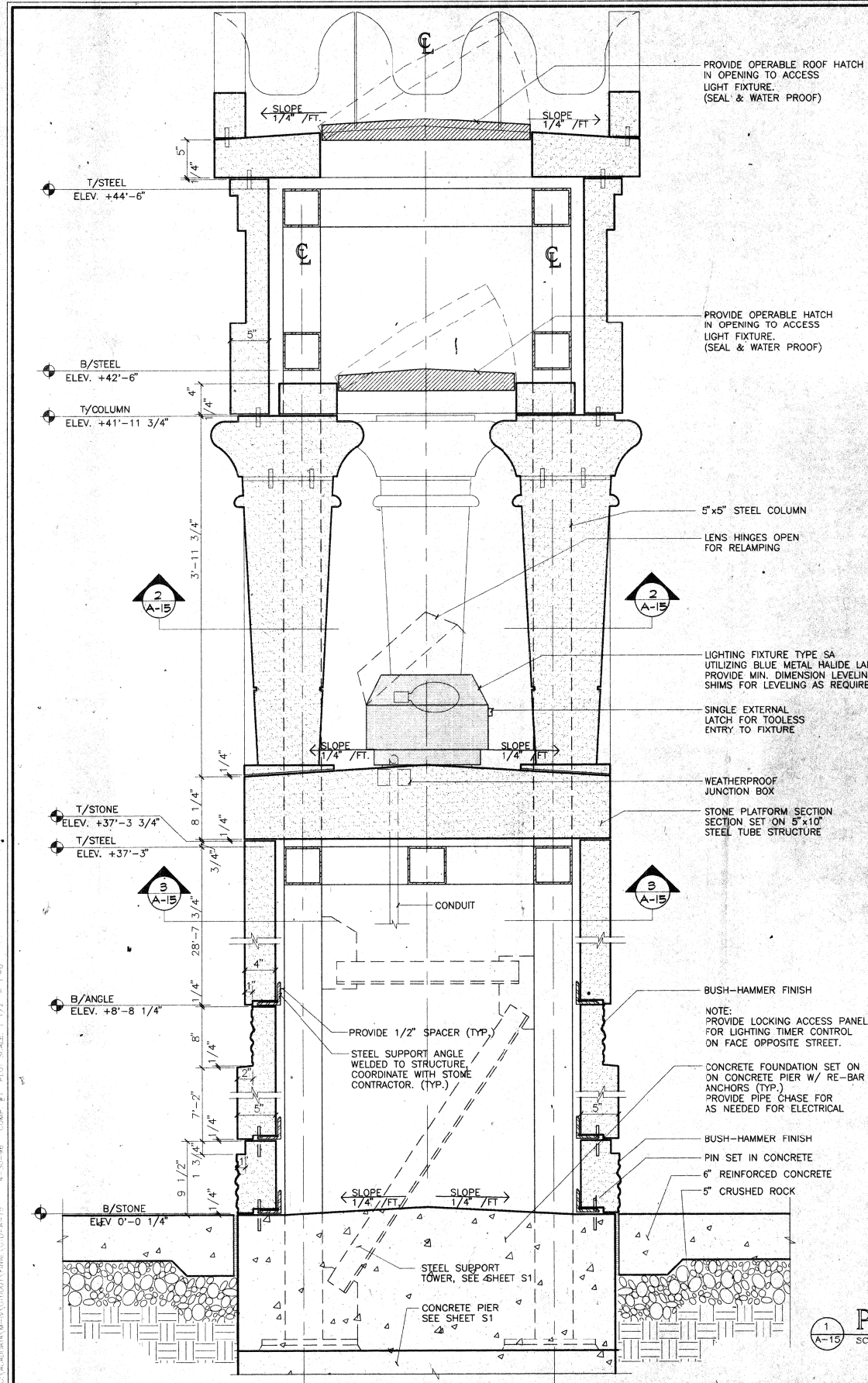
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	CHECKED - DL	REVISED -
PLOT SCALE = @2 1/4" = 1'-0"	DRAWN - TLR	REVISED -
PLOT DATE = 12/15/2016	CHECKED - DL	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

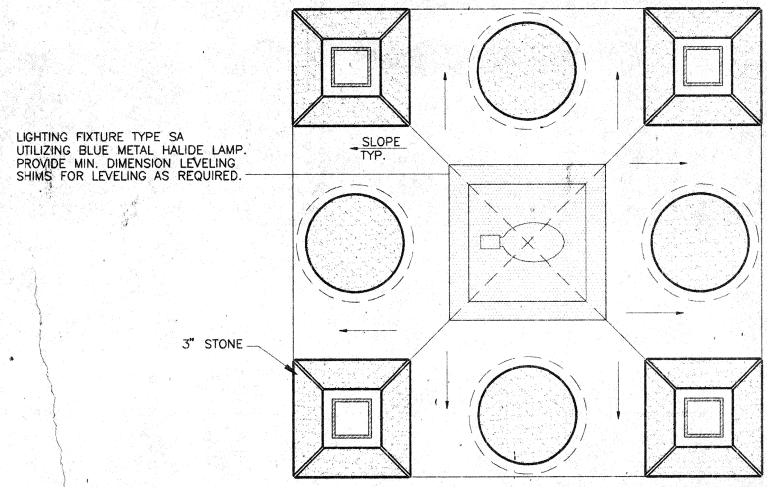
MONUMENT RELOCATION
AS-BUILT DRAWING - PILLAR B

SHEET NO. MON-4 OF MON-7 SHEETS

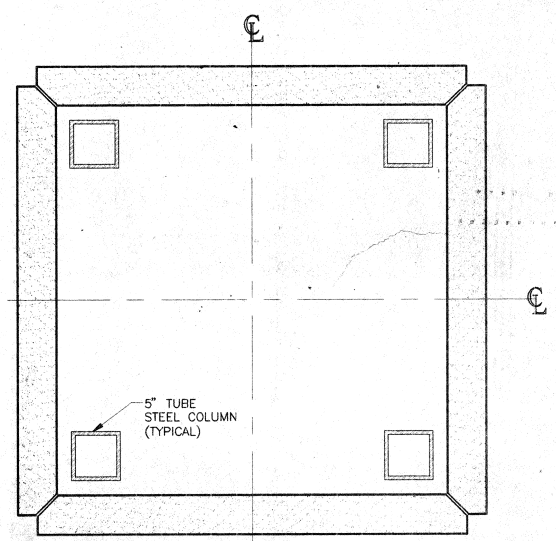
F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 358
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



1
A-15
SCALE: 1 1/2" = 1'-0"



2
A-15
SCALE: 1 1/2" = 1'-0"



3
A-15
SCALE: 1 1/2" = 1'-0"

Pillar - B

REVISIONS

GREEK TOWN DEVELOPMENT		DATE: 02-05-96
GREEK TOWN CHICAGO, ILLINOIS		SHEET NO. A-15
CAPRI REALTY CORPORATION	111 West Washington Street Chicago, Illinois 60602 Telephone (312) 236-4400	ELIAS G. PAPPAGEORGE ARCHITECTS 124 NORTH LASKILLE STREET SUITE NUMBER 2008 CHICAGO, ILLINOIS 60602 TELEPHONE (312) 532-5685 FAX (312) 532-7696
SHEET OF		JOB NO. GTD001

3:10:26 PM Monument-60X99-S05-AsBullit



USER NAME = mkwilson	DESIGNED - TLR	REVISED -
PLOT SCALE = @2' 1" / in.	CHECKED - DL	REVISED -
PLOT DATE = 12/15/2016	DRAWN - TLR	REVISED -
	CHECKED - DL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONUMENT RELOCATION
AS-BUILT DRAWING - PILLAR B**

SHEET NO. MON-5 OF MON-7 SHEETS

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 359
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				

GENERAL CONSTRUCTION NOTES

1. THE OWNER SHALL APPLY FOR AND SECURE THE BUILDING PERMIT. OWNER WILL PAY FOR THE PERMIT.
2. THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL OBTAIN AND PAY FOR ALL OTHER PERMITS, FEES, LICENSES, ETC., AS REQUIRED BY LOCAL, STATE AND FEDERAL AGENCIES.
3. ALL WORKMANSHIP AND MATERIALS ARE TO COMPLY WITH ALL LOCAL AND STATE STATUTES, CODES, REGULATIONS AND ORDINANCES. LATEST EDITION OF EACH SHALL GOVERN.
4. THE CONTRACTOR AND SUBCONTRACTOR DURING AND AT COMPLETION OF WORK SHALL REMOVE ALL SURPLUS CONSTRUCTION MATERIAL, INCLUDING BOXES, DEBRIS, ETC., AND DISPOSE OF SAME OFF-SITE. LEAVE ALL SURFACES BROOM CLEAN.
5. THE OWNER'S AND ARCHITECT'S RESPONSIBILITY LIES IN THE PERMANENT RESULTS AND DO NOT INCLUDE THE MEANS, SEQUENCES OR PROCEDURES EMPLOYED BY THE CONTRACTOR IN EXECUTING OR COMPLETING THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE PROCEDURES OF CONSTRUCTION AND TO PROVIDE SAFE AND ADEQUATE MEANS OF SHORING, BRACING, SCAFFOLDING, LADDERS, STAGES, HOSTS, TEMPORARY SUPPORTS AND OTHER FACILITIES OR METHODS AS HE MAY DETERMINE ARE REQUIRED FOR THE EXECUTION AND COMPLETION OF THE WORK.
6. THE CONTRACTOR SHALL INSPECT THE SITE AND SHALL VERIFY ALL DATA PERTAINING TO THE EXISTING BUILDING AND ITS RELATION TO THE NEW WORK, AND REPORT TO THE ARCHITECT ANY DISCREPANCIES WHICH MAY AFFECT HIS WORK.
7. THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING SOIL CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IS TO COMPARE THE SITE CONDITIONS AS INDICATED ON THE ENGINEERING DRAWINGS.
8. SHORING AND BRACING: INSTALLATION OF NEW LINEETS WILL REQUIRE SHORING OF PORTIONS OF EXISTING MASONRY. SHALL SET ANY NEEDED, CRIBBING, BRACING AND SHORING REQUIRED TO CARRY EXISTING LOADS, WITHOUT DEFLECTION OR SETTLEMENT OF EXISTING STRUCTURES.
9. SOME CRITICAL MEASUREMENTS MUST BE VERIFIED IN THE FIELD PRIOR TO ANY EXCAVATION. IF ANY DISCREPANCIES ARE NOTED, CONTACT THE ARCHITECT PRIOR TO COMMENCEMENT OF WORK. IT IS IMPORTANT THAT THE EXISTING CONDITIONS ARE VERIFIED PRIOR TO SET UP OF FORM WORK.
10. DO NOT ATTEMPT TO SCALE DRAWINGS. USE GIVE DIMENSIONS.

GENERAL

1. CONTRACTOR SHALL SECURE AND PAY FOR ALL REQUIRED PERMITS, FEES, TAP CHARGES, DISCONNECT FEES, ETC., AS MAY BE REQUIRED BY THE CITY OF CHICAGO AND ANY OTHER GOVERNMENTAL AGENCIES HAVING JURISDICTION OVER THIS PROJECT.
2. IF THE CONTRACTOR SHOULD DISCOVER ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND THE EXISTING CONDITIONS, THE CONTRACTOR SHALL NOTIFY THE ARCHITECT PROPOSAL THE GREATER QUANTITY OR THE BETTER QUALITY AND SHALL THEN BRING THE MATTER TO THE ARCHITECT'S ATTENTION FOR A DECISION AND ADJUSTMENT IF NECESSARY.
3. THE AIA GENERAL CONDITIONS 2001, 1987 EDITION IS HEREBY MADE A PART OF THE CONTRACT.
4. ALL CONSTRUCTION SHALL BE DONE IN STRICT ACCORDANCE WITH THE SERVICE LINE.
5. CONTRACTOR SHALL FURNISH A ONE-YEAR UNCONDITIONAL GUARANTEE FOR ALL WORK COMMENCING FROM THE DATE OF SUBSTANTIAL COMPLETION AND ACCEPTANCE BY THE OWNER.
6. IT IS EXPRESSLY UNDERSTOOD THAT THE ARCHITECT DOES NOT GUARANTEE THE CONTRACTOR'S PERFORMANCE OF THE CONTRACT AND THAT NO PROVISION OF THE CONTRACT DOCUMENTS SHALL OPERATE IN ANY MANNER TO RELIEVE THE CONTRACTOR FROM ANY LIABILITY RESULTING FROM NEGLIGENCE, INCOMPETENCE OR ERRORS OF OMISSION OR COMMISSION.
7. ALL APPLICATIONS FOR PERMIT SHALL BE FURNISHED APPLICATIONS TYPED ON AIA DOCUMENT G702 AND CONTINUATION SHEETS G703.
8. SUBMIT MANUFACTURER'S DATA FOR ALL MANUFACTURED PRODUCTS. SUBMIT SAMPLES OF MANUFACTURED PRODUCTS AS REQUESTED BY ARCHITECT.

CIVIL NOTES

- GENERAL NOTES AND SPECIFICATIONS
1. ALL CONSTRUCTION OPERATIONS SHALL BE PERFORMED IN FULL ACCORDANCE WITH CURRENT APPLICABLE OSHA, IEPA AND CITY OF CHICAGO SAFETY REGULATIONS.
 2. ALL EXCAVATION, GRADING, PAVING, CURB AND GUTTER, CURB REMOVAL, REPAIRS OR RECONSTRUCTION, GRANULAR MATERIAL COMPACTION, STORM SEWER CONSTRUCTION AND RELATED WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF UNIFORM CODE DEPARTMENT OF TRANSPORTATION'S STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND CURRENT SUPPLEMENTAL SPECIFICATIONS.
 3. ALL SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF CHICAGO DEPARTMENT OF SEWERS "STANDARDS" AND REGULATIONS.
 4. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCING WORK AND IF ANY DISCREPANCIES ARE FOUND, HE IS TO NOTIFY THE ARCHITECT AT ONCE. WORK ON ITEMS FOUND IN QUESTION SHALL NOT COMMENCE UNTIL THE DISCREPANCIES ARE RESOLVED.
 5. CONTRACTOR SHALL REVIEW THE AVAILABLE SOILS INVESTIGATION REPORTS AVAILABLE FROM THE OWNER AND SHALL BE RESPONSIBLE FOR VERIFYING THE EXISTING CONDITIONS PRIOR TO COMMENCING HIS CONSTRUCTION OPERATIONS.
 6. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER AND THE CITY OF CHICAGO, THEIR AGENTS, ETC., FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF ALL WORK ASSOCIATED WITH THIS PROJECT.
 7. PERMITS FROM THE DEPARTMENT OF SEWERS OF THE CITY OF CHICAGO ARE REQUIRED FOR ALL UNDERGROUND STORM, SANITARY, OR COMBINED SEWER SYSTEMS, WITHIN OR WITHOUT THE LIMITS OF A BUILDING OR PUBLIC OR PRIVATE PROPERTY. A DEPARTMENT OF SEWERS PERMIT MUST BE OBTAINED BY A LICENSED DRAIN LAYER ONLY.
 8. ALL CONSTRUCTION ON, BEHIND OR ADJACENT TO EXISTING CITY OF CHICAGO STREETS SHALL BE COORDINATED WITH THE CITY TO INSURE THE SAFETY AND CONVENIENCE OF THE GENERAL PUBLIC AND NEIGHBORING BUSINESSES, AND SHALL NOT COMMENCE WITHOUT THE PROPER PERMITS, CLEARANCES, ETC., AT NO TIME SHALL CITY STREETS BE CLOSED TO TRAFFIC UNLESS SPECIALLY APPROVED BY, AND COORDINATED WITH, THE APPROPRIATE CITY DEPARTMENT.
 9. PRIOR TO COMMENCING WITH ANY EXCAVATION OPERATIONS AT THE SITE, THE CONTRACTOR SHALL CONTACT "GOTGERT" AT 312-744-7000 TO VERIFY THE LOCATION OF EXISTING UTILITIES, INCLUDING "UNDERGROUND FACILITIES". THE CONTRACTOR SHALL VERIFY ALL EXISTING STORM SEWER, SANITARY SEWER, DRAIN TILE, WATERMAIN, CABLE AND UNDERGROUND TELEPHONE OR ELECTRIC CONDUIT OR CABLE LOCATIONS IN THE FIELD PRIOR TO COMMENCING ANY CONSTRUCTION INVOLVING THESE ITEMS AND HE SHALL BE RESPONSIBLE FOR ANY DAMAGE TO THEM.
 10. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE FURNISHING, PROPER PLACEMENT, INSTALLATION AND MAINTENANCE OF ALL SHORING, BRACING, BRICK LIGHTS, AND OTHER SAFETY DEVICES AS ARE REQUIRED BY MANUAL OF TRAFFIC CONTROL DEVICES OR AS MAY BE AMENDED BY THE CITY OF CHICAGO. THE COST OF FURNISHING AND MAINTAINING SIGNS, BARRICADES, AND WARNING DEVICES SHALL BE INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
 11. THE PLANS SHOW THE LOCATION OF CERTAIN OVERHEAD AND UNDERGROUND UTILITY LINES, WATERMANS, SEWERS, GAS MAINS, ELECTRIC LINES, TELEPHONE LINES, ACCORDING TO INFORMATION OBTAINED IN THE FIELD AND FROM AVAILABLE RECORDS. THIS INFORMATION IS NOT DEEMED TO BE COMPLETE. THE DETERMINATION OF THE EXACT LOCATIONS AND DEPTHS OF ALL EXISTING FACILITIES, PIPES AND LINES, AND THEIR PROPER PROTECTION, SUPPORT AND MAINTENANCE DURING ALL CONSTRUCTION OPERATIONS IS THE EXPRESS RESPONSIBILITY OF THE CONTRACTOR(S). WHENEVER EXISTING UTILITY LINES OF ANY KIND ARE ENCOUNTERED, THE CONTRACTOR(S) SHALL NOTIFY THE ENGINEER, WHO WILL ASSIST IN ARRANGING FOR THEIR REMOVAL OR RELOCATION. ALL OVERHEAD UTILITY LINES LOCATED ON THE SITE SHALL BE REMOVED PRIOR TO WORK COMMENCING ON THE SITE.

CONCRETE

1. UNLESS NOTED OTHERWISE, ALL CONCRETE WORK SHALL CONFORM TO ACI 301. PLYWOOD FORMS SHALL BE REINFORCED PLYWOOD, MINIMUM 3/4" INCH THICK. FORM TIES SHALL BE SHAPED OR CUT TYPE, LEAVING NO METAL IN THE CONCRETE. CLOSER THAN 1-1/2" INCHES FROM THE SURFACE. FORM OIL SHALL BE NON-STAINING. REMOVAL OF FORMS AND SHORING SHALL BE IN ACCORDANCE WITH ACI 301 AND ACI 347.
2. FORMS SHALL CONFORM TO THE SHAPE, LINES AND DIMENSIONS SHOWN ON THE DRAWINGS. BE SUBSTANTIAL AND DESIGNED TO RESIST ALL PRESSURE AND WEIGHT OF THE CONCRETE. BE PROPERLY TIED AND BRACED OR SHORED SO AS TO MAINTAIN POSITION, SHAPE AND SUFFICIENTLY TIGHT TO PREVENT LEAKAGE OF CONCRETE. FORMS SHALL BE DESIGNED AND CONSTRUCTED TO PROVIDE A SMOOTH FINISH. FORMS SHALL BE FREE OF OBTUSE ANGLES AND CORNERS TIE TO LINES AS DETAILLED.
3. REINFORCING STEEL BARS: ASTM A 615, GRADE 60.
4. WELDED WIRE FABRIC: ASTM A 185.
5. PROVIDE METAL ACCESSORIES INCLUDING SPACERS, CHAIRS, BOLSTERS, TIES AND OTHER DEVICES NECESSARY FOR PROPER PLACING, SPACING, SUPPORTING AND FASTENING REINFORCEMENT IN PLACE.
6. ALL REINFORCEMENT SHALL BE FREE FROM RUST, SCALE, GRASS, PAINT OR COATINGS WHICH MAY TEND TO REDUCE OR DESTROY BOND. PLACE REINFORCEMENT IN ACCORDANCE WITH ACI 318.
7. CONCRETE:
 - A. PORTLAND CEMENT: ASTM C150, TYPE I.
 - B. AGGREGATE: ASTM C 33. ALL AGGREGATE WHEN SUBJECTED TO 5 CYCLES OF THE SODIUM SULFATE SOUNDNESS TEST SHALL NOT LOSE MORE THAN 15 PERCENT BY WEIGHT.
 - C. WATER: POTABLE.
 - D. DESIGN STRENGTH: UNLESS NOTED OTHERWISE, 3,000 PSI AT 28 DAYS; 8-BAG MIX, 4 INCH SLUMP MAXIMUM.
8. CONCRETE FOR ANY FOOTING SHALL NOT BE POURED ON FROZEN GROUND OR WHEN WATER IS PRESENT.
9. PROVIDE ADEQUATE RUNWAYS, CHUTES AND OTHER MEANS OF CONCRETE AND PLACE.
10. PROTECT ALL CONCRETE WORK FROM DRYING OUT BY COVERING IT WITH WATERPROOF PAPER, POLYETHYLENE SHEETING OR WET BURLAP.
11. ALL FOOTINGS SHALL BEAR ON UNDISTURBED SOIL OR APPROVED COMPACTED FILL, EITHER OF WHICH MUST HAVE A MINIMUM BEARING CAPACITY OF 2,000 PSF.
12. ALL FOOTINGS SHALL EXTEND 3" - 4" BELOW FINISHED GRADE, UNLESS OTHERWISE SHOWN ON DRAWINGS.
13. PROVIDE GRANULAR FILL, WHERE NECESSARY, COMPACTED TO 90 PERCENT MAXIMUM DENSITY AT OPTIMUM MOISTURE ACCORDING TO ASTM SPECIFICATIONS D 1587.
14. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST EDITION OF ACI 301, "SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS AND OTHER STRUCTURES". ALL CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
15. STRUCTURAL STEEL SHALL CONFORM TO ASTM SPECIFICATION FOR A-36 STEEL.
16. JOISTS SHALL BE SPRUCE-PINE-FIR UNLESS OTHERWISE INDICATED. HEADERS SHALL BE DOUGL FIR, LARCH, NO. 2 GRADE AND BETTER WITH 1,400 PSI IN BENDING.
17. PROVIDE DOUBLE JOISTS UNDER ALL PARTITIONS PARALLEL TO JOISTS AND PROVIDE SLOD BLOOMING UNDER ALL PARTITIONS PERPENDICULAR TO JOISTS.
18. PROVIDE 1" X 4" CROSS BRIDGING 7 FEET ON CENTER MAXIMUM.
19. PROVIDE DOUBLE TRIMMERS MINIMUM EACH SIDE OF ALL PARTITIONS. PROVIDE DOUBLE JOISTS UNDER ALL BEARING PARTITIONS UNLESS OTHERWISE NOTED. WHERE PIPING FOR DUCTWORK OCCURS, BLOCK JOISTS AT 4 FOOT INTERVALS. PROVIDE DOUBLE JOISTS AROUND ANY FURNACE.
20. USE 5/8" INCH TYPE "X" REINSTEEL WARE REQUIRED FOR FIRE RATING AND 1/2" INCH WATER RESISTANT BOARD AT ALL SHOWER AND BATHUB RECESSES IF ANY.
21. PROVIDE 12 INCH MINIMUM GRAVEL FILL UNDER ALL CONCRETE SToops.
22. PROVIDE, IF REQUIRED, 1/4" INCH UNDERLAYMENT OVER SUBFLOOR WHEREVER RESILIENT FLOORING OR CERAMIC TILE OCCURS.
23. CUTTING, NOTCHING OR DRILLING OF FRAMING ON ANY STRUCTURAL LOAD BEARING WALLS SHALL NOT DESTROY THE INTEGRITY OF THE SYSTEM AND SHALL BE IN ACCORDANCE WITH ALL APPLICABLE CODES.

MORTAR

1. PORTLAND CEMENT: NATURAL COLOR, TYPE I CONFORMING TO ASTM C150.
2. HYDRATED LIME: TYPE S CONFORMING TO ASTM C207.
3. AGGREGATES FOR MORTAR: NATURAL CLEAN SAND CONFORMING TO ASTM C144.
4. AGGREGATE FOR GROUT: ASTM C404.
5. WATER: CLEAN AND FREE OF DELTERIOUS AMOUNTS OF ACIDS, ALKALIES OR ORGANIC MATERIALS.
6. ADMIXTURES: NO AIR-ENTRAPPING ADMIXTURES OR CEMENTITIOUS MATERIALS CONTAINING AIR-ENTRAPPING ADMIXTURES SHALL BE USED IN MORTAR. NOR SHALL ANTI-FREEZE COMPOUNDS OR OTHER SUBSTANCES BE USED IN MORTAR TO LOWER THE FREEZING POINT. CALCIUM CHLORIDE OR ADMIXTURES CONTAINING CALCIUM CHLORIDE SHALL NOT BE USED.
7. TYPE N MORTAR: SHALL BE PROPORTIONED OF 1 PART BY VOLUME OF PORTLAND CEMENT, 1 PART BY VOLUME OF HYDRATED LIME, AND SAND MEASURED IN A DRY LOOSE CONDITION NOT LESS THAN 2-1/4" AND NOT MORE THAN 3 TIMES THE SUM OF THE VOLUMES OF CEMENT AND LIME USED, MIXED WITH SUFFICIENT WATER.
8. POINTING MORTAR SHALL BE COMPOSED OF ONE PART WHITE NON-STAINING PORTLAND CEMENT AND TWO PARTS SAND TO WHICH SHALL BE ADDED SUFFICIENT HYDRATED LIME TO MAKE AS STIFF A MIXTURE AS CAN BE WORKED.
9. GROUT MIXING: COMPLY WITH ASTM C 476 FOR GROUT FOR USE IN CONSTRUCTION OF REINFORCED AND NON-REINFORCED UNIT MASONRY.

STRUCTURAL STEEL

1. STRUCTURAL STEEL SHALL CONFORM TO AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS.
2. SHOP DRAWINGS: INDICATE PROFILES, SIZES, SPACING AND LOCATIONS OF STRUCTURAL MEMBERS, CONNECTIONS, ATTACHMENTS, FASTENERS, CAMBRS, CORNERS AND LOADS. INDICATE WELDED CONNECTIONS USING STANDARD AWS WELD SYMBOLS. INDICATE NET WELD LENGTHS.
3. STRUCTURAL STEEL MEMBERS: ASTM A-36 WITH A MINIMUM YIELD POINT OF 36,000 PSI.
4. BOLTS, NUTS, WASHERS: ASTM A307, GRADE A.
5. WELDING MATERIALS: AWS D11; TYPE REQUIRED FOR MATERIALS BEING WELDED.
6. PRIMER: SSPC - PART 13.

11. UNLOADING AND STORAGE AT JOB SITE: All stone shall be received and unloaded at the site with necessary care in handling to avoid damaging or soiling. Stone shall be stored clear of the ground on nonstaining skids (cypress, white pine, poplar, or yellow pine without an excessive amount of resin). Chemically treated wood should not be used. DO NOT use chestnut, walnut, oak, fir and other woods containing tannin. Stone shall be covered with waterproof paper, clean canvas or polyethylene.

SETTING CUT INDIANA LIMESTONE (WITH MORTAR)

This section describes the setting and further handling of limestone where mortar joints are used. In conjunction with Section 1, no further stone sections are necessary for specifying hand set cut stone.

12. WORK INCLUDED: The work under this contract shall include all labor and materials necessary for the satisfactory installation of cut Indiana Limestone in accordance with the provisions set out herein.

13. SETTING MORTAR: Setting mortar shall be ASTM C-270 Type N (non-staining) composed of: one part portland cement, one part mason's lime, and six parts sand mixed with potable water.

14. POINTING MORTAR: Pointing mortar shall be composed of one part (non-staining, portland cement), one part hydrated lime, and six parts white sand passing a #16 sieve.

15. EXPANSION JOINTS: Joints shall be adequate to allow for thermal and structural differential movement. Filler material for these joints shall be non-staining.

16. WEEPS: Plastic or other weep tubes, or felt wicks, shall be placed in joints where moisture may accumulate within the wall, such as at base of cavity, continuous angles, flashing, etc., or as shown on architectural drawings.

17. ANCHORS, DOWELS, FASTENINGS: The setting mortar shall furnish and set all anchors shown on approved shop drawings unless otherwise specified. All anchors shall be fabricated from type 304 stainless steel. Multi-part anchors may contain metal other than stainless steel provided such metal is not embedded in sinkings in the limestone.

18. STAIN PREVENTION: Dampproof all concrete surfaces on which limestone will rest. Dampproof adjacent concrete structure, haunches, etc.

19. SETTING:
 - A. All Indiana Limestone shall be set accurately in strict accordance with the contract and shop drawings.
 - B. When necessary, before setting in the wall, all stones shall be thoroughly cleaned on all exposed surfaces by washing with fiber brush and soap powder, followed by a thorough drenching with clean water.
 - C. All stone joint surfaces not thoroughly wet shall be drenched with clear water just prior to setting.
 - D. Except as otherwise specially noted, every stone shall be set in full beds of mortar with all vertical joints flushed full, completely fill an anchor, dowel, and similar holes. All bed and vertical joints shall be mortared unless otherwise noted.
 - E. Lead or plastic setting pads shall be placed under heavy stones, column drums, etc., in same thickness as joint, and in sufficient quantity to avoid squeezing mortar out. Heavy stones or projecting courses shall not be set until mortar-in courses below has hardened sufficiently to avoid squeezing.
 - F. Joints can be tooled when initial set has occurred, or raked out 1" and pointed later. If pointed with sealant, the raked depth and sealant applications shall conform to manufacturer's instructions.
 - G. Projecting stones shall be securely propped or anchored until the wall above is set.
 - H. Only the ends of lugged sills and steps shall be embedded in mortar. Balance of joint shall be left open until finally pointed.

20. PROTECTION OF FINISHED WORK:
 - A. Receipt, storage, and protection of cut stone work prior to, during and subsequent to installation shall be the responsibility of the mason contractor.
 - B. During construction, tops of walls shall be carefully covered at night, and especially during any precipitation or other inclement weather.
 - C. At all times, walls shall be adequately protected from droppings.
 - D. Whenever necessary, substantial wooden covering shall be placed to protect the stone work. Nonstaining building paper or membrane shall be used under the wood. Maintain all covering until removed to permit final clearing of the stone work.

21. CLEANING: The stone shall be washed with fiber brushes, mild soap powder or detergent and clean water or approved mechanical cleaning process.

22. SPECIAL CONSIDERATION AND PROTECTION shall be provided when brickwork is cleaned above the limestone. Strong acid compounds used for cleaning brick will burn and discolor the limestone. Use of sand blasting, wire brushes or acids will only be permitted under special circumstances, approved by the architect.

REVISIONS		GREEK TOWN DEVELOPMENT		DATE: 2-05-96
		GREEK TOWN CHICAGO, ILLINOIS		SHEET NO. A-18
CAPRI REALTY CORPORATION		111 West Washington Street Chicago, Illinois 60602 Telephone (312) 238-4400	ELIAS G. PAPPAGEORGE ARCHITECTS	154 NORTH LASSALLE STREET SUITE NUMBER 2028 CHICAGO, ILLINOIS 60602 TELEPHONE (312) 332-5885 FAX (312) 332-5884



USER NAME = mkwilson	DESIGNED - TLR	REVISED -
	CHECKED - DL	REVISED -
PLOT SCALE = @2 1/4" = 1"	DRAWN - TLR	REVISED -
PLT DATE = 12/15/2016	CHECKED - DL	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MONUMENT RELOCATION
AS-BUILT DRAWING - PILLAR B**

SHEET NO. MON-6 OF MON-7 SHEETS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	360
CONTRACT NO. 60X99				ILLINOIS FED. AID PROJECT

STRUCTURAL GENERAL NOTES

GENERAL
THE STRUCTURAL DRAWINGS ARE TO BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL AND ELECTRICAL DRAWINGS. REFERENCE MUST BE MADE TO ALL BID DOCUMENTS AS WELL AS THE PROJECT SPECIFICATIONS. DISCREPANCIES SHALL BE RESOLVED BEFORE PROCEEDING WITH CONSTRUCTION. CONTRACTOR TO COORDINATE THE WORK OF ALL TRADES AND MAKE NECESSARY INVESTIGATIONS AND FIELD MEASUREMENTS.

EXCAVATION
EXCAVATE AS REQUIRED FOR FOUNDING OF FOOTINGS ON UNDISTURBED SOIL OF 2000 PSF MINIMUM BEARING CAPACITY. BACKFILL BEHIND EXTERIOR WALLS WITH COMPACTED GRANULAR FILL PLACED IN 10" LOOSE CONCRETE.

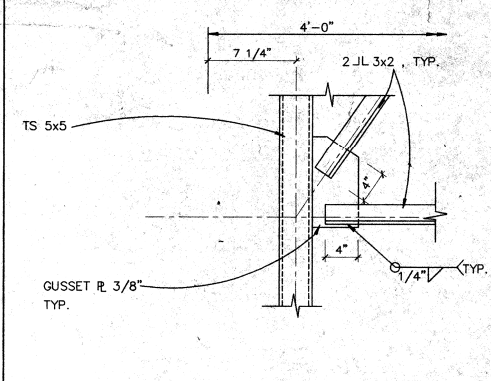
CONCRETE
ALL REINFORCED CONCRETE WORK PER "BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE" (ACI 318-89).
ALL CONCRETE 4000 PSI ULTIMATE COMPRESSIVE STRENGTH AT 28 DAYS.
ALL WEATHER-EXPOSED CONCRETE AIR-ENTRAINED 4 TO 7 PERCENT BY VOLUME.
FOR CONCRETE PROPORTIONS, FORMING, CURING AND FINISHING, REFER TO PROJECT SPECIFICATIONS.

REINFORCING STEEL (BARS) ASTM A615, GRADE 60 (Fy=60 KSI).
ALL WELDED WIRE FABRIC (MESH) ASTM A185.
ALL BAR SPICES 36 X BAR DIAMETERS, BUT NOT LESS THAN 18 INCHES. ALL WELDED WIRE SPECIFICATIONS.

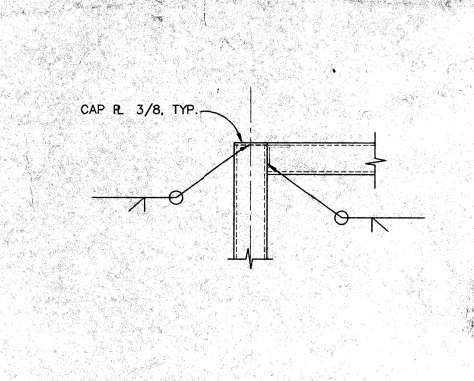
STRUCTURAL STEEL
ALL STRUCTURAL STEEL WORK TO CONFORM TO THE AISC "SPECIFICATIONS FOR THE DESIGN, FABRICATION & ERECTION OF STRUCTURAL STEEL FOR BUILDINGS", 1989.
ALL STRUCTURAL STEEL ASTM A36 (Fy=36 KSI).
ALL STRUCTURAL STEEL TUBES ASTM A500, GRADE B.
ALL WELDING TO CONFORM TO AMERICAN WELDING SOCIETY "STRUCTURAL WELDING CODE", AWS D1.1.
ALL WELD ELECTRODES SHALL BE E70XX AND ALL WELDING TO BE PERFORMED BY CERTIFIED WELDERS.
ALL WELDS TO BE A MINIMUM 1/4" FILLET WELD, UNLESS NOTED OTHERWISE.
ALL BOLTING WITH 3/4" A325 HIGH STRENGTH BOLTS UNLESS NOTED OTHERWISE.

STRUCTURAL STABILITY AND CONSTRUCTION
INDIVIDUAL STRUCTURAL COMPONENTS ARE DESIGNED TO SUPPORT LOADS IN THEIR FINALLY ERECTED POSITION AS PART OF THE TOTAL COMPLETED STRUCTURE. PROVIDE TEMPORARY GUYING AND BRACING AS REQUIRED UNTIL ALL CONSTRUCTION AFFECTING LATERAL STABILITY IS COMPLETED.
CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR STABILITY OF STRUCTURE, ITS PARTS AND JOB SITE SAFETY BY USE OF GUYING, BRACING, SHORING, BARRICADES, SAFETY RAILINGS AND DEVICES DURING ENTIRE PERIOD OF CONSTRUCTION.

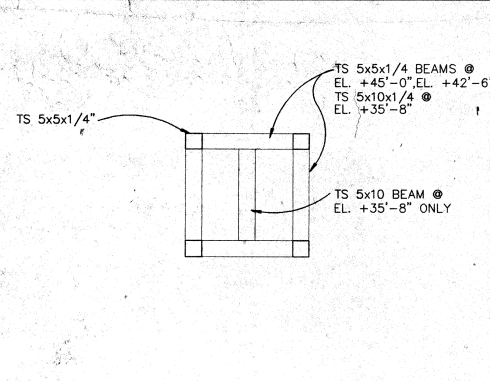
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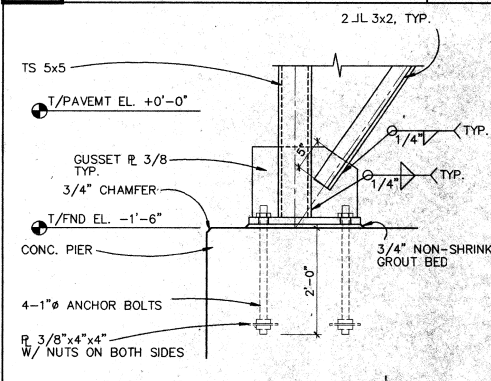
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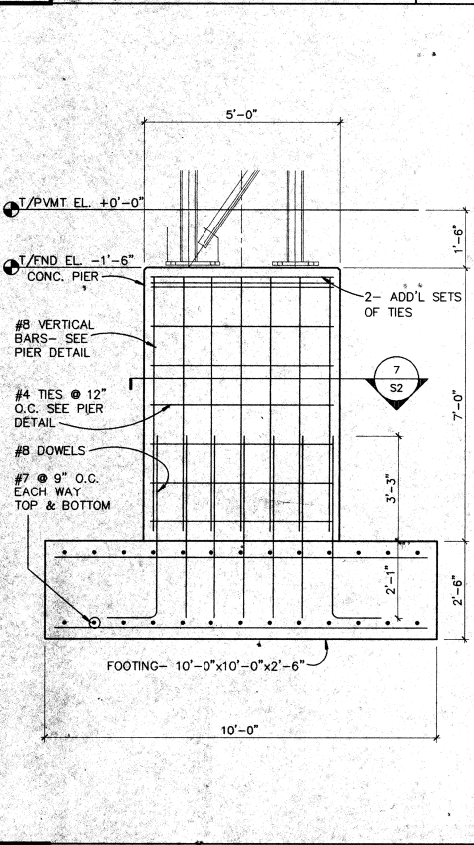
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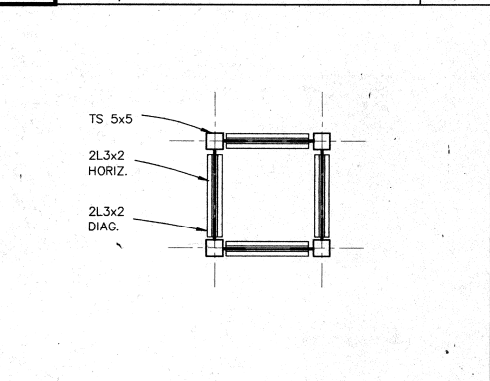
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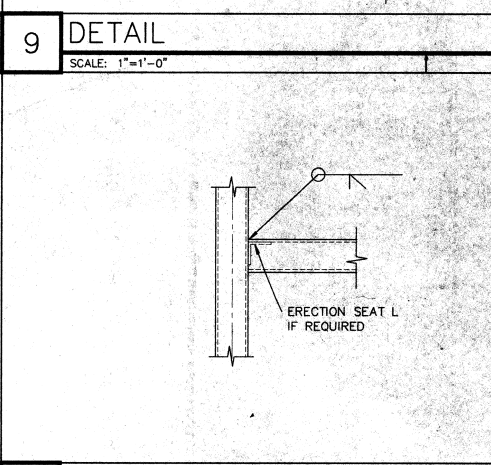
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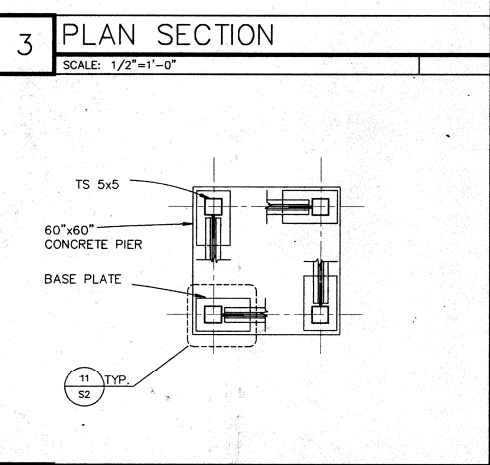
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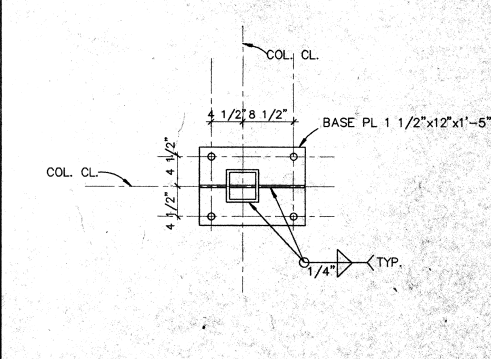
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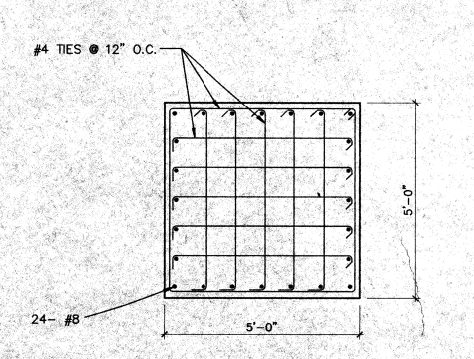
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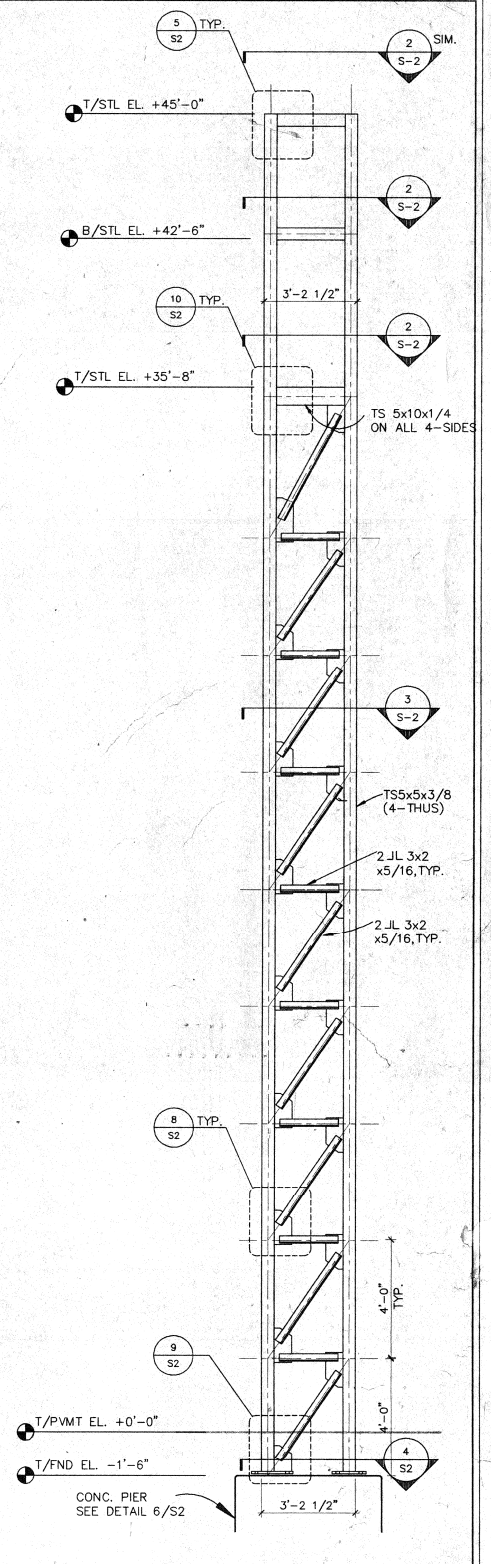
4 PLAN SECTION
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11 DETAIL
SCALE: 1"=1'-0"



7 PLAN SECTION OF PIER
SCALE: 1/2"=1'-0"



1 PILLAR 'B' ELEVATION
SCALE: 3/8"=1'-0"

C.E. ANDERSON ASSOCIATES, P.C.
STRUCTURAL ENGINEERS
1550 N. NORTHWEST HWY. STE. 112
Phone 847.635.5115 Fax 847.635.5612

REVISIONS

GREEK TOWN DEVELOPMENT
GREEK TOWN CHICAGO, ILLINOIS

CAPRI REALTY CORPORATION
111 West Washington Street
Chicago, Illinois 60602
Telephone (312) 238-4400

ELIAS G. PAPPAGEORGE ARCHITECTS
134 NORTH LAMARLE STREET
STATE BOARD 3000
CHICAGO, ILLINOIS 60602
TELEPHONE (312) 332-3888
FAX (312) 332-3888

DATE: 2-3-96
SHEET NO. S2
SHEET OF
JOB NO: GTD001

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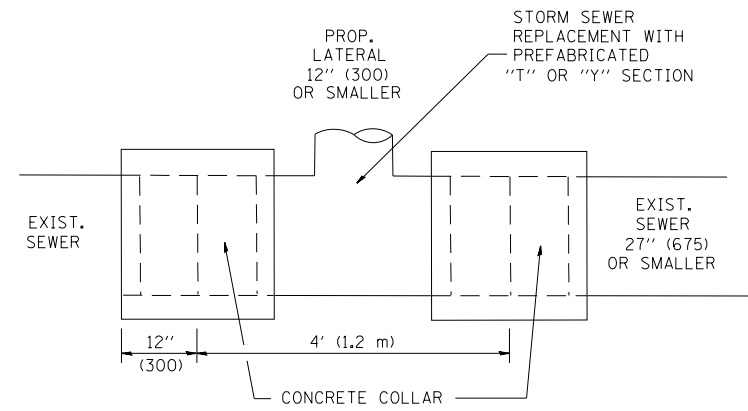
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PLOT DATE = 12/15/2016
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

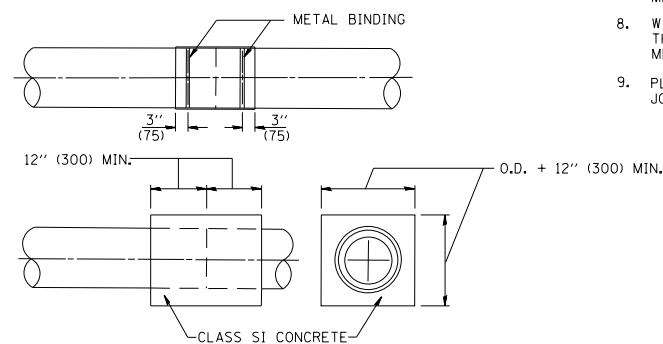
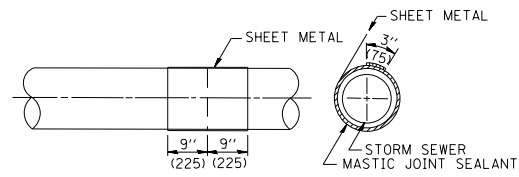
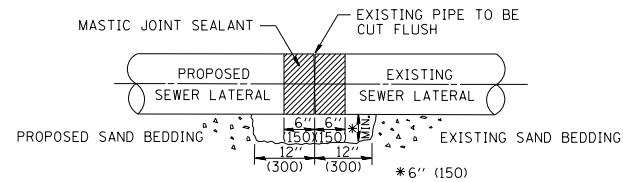
**MONUMENT RELOCATION
AS-BUILT DRAWING - PILLAR B**
SHEET NO. MON-7 OF MON-7 SHEETS

F.A.I. R.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	361
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				



DETAIL "A"

LATERAL CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER



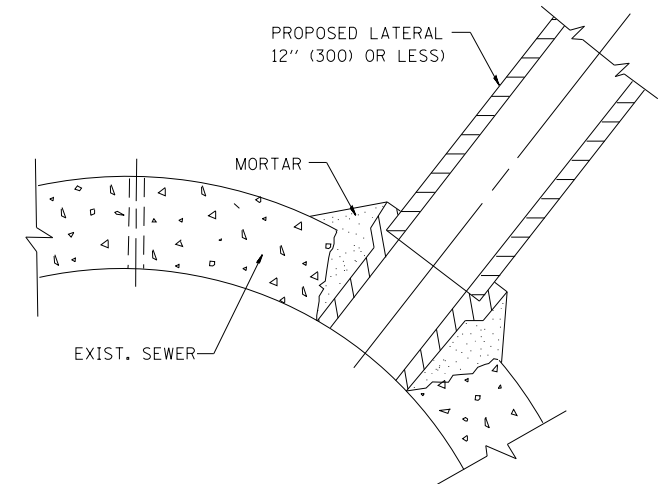
DETAIL "B"

CLASS SI CONCRETE COLLAR

CONSTRUCTION SEQUENCE

- CUT THE EXISTING END OF THE PIPE SO AS TO PRESENT A FLUSH BUTT JOINT. BRUSH AND CLEAN ALL PIPES.
- APPLY THE MASTIC JOINT SEALANT TO THE FIRST 6" (150) OF EACH PIPE.
- BUTT THE PIPES TOGETHER LEAVING A MINIMUM OF 12" x 6" (300 x 150) DEEP EXCAVATION UNDER AND AROUND EACH PIPE END.
- CUT A PIECE OF SHEET METAL GAGE NO. 19 1.1 (0.0418) 18" (450) WIDE BY THE OUTSIDE CIRCUMFERENCE OF THE PIPE PLUS 3" (75) LONG.
- WRAP THE SHEET METAL AROUND THE PIPES, 9" (225) ON EACH SIDE OF THE JOINT, STARTING AT THE TOP OF THE PIPE.
- LAP THE SHEET METAL AT LEAST 3" (75) AT THE TOP OF THE PIPE AND PLACE THE MASTIC JOINT SEALANT BETWEEN THE LAP.
- PLACE TWO METAL BANDS AROUND THE SHEET METAL AND TIGHTEN.
- WIPE OFF ANY EXCESS MASTIC JOINT SEALANT THAT OOOZES OUT FROM BETWEEN THE SHEET METAL AND THE PIPES.
- PLACE CLASS SI CONCRETE AROUND THE JOINT.

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



DETAIL "C"

PROPOSED LATERAL CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER

NOTES

MATERIAL

MATERIAL USED FOR THE TEE OR WYE SECTION SHALL BE COMPATIBLE WITH THE EXISTING STORM SEWER OR THE PROPOSED STORM SEWER.

CONSTRUCTION METHODS

- THIS WORK SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE APPLICABLE PORTIONS OF SECTION 550 OF THE STANDARD SPECIFICATIONS.
- CONNECTION TO AN EXISTING STORM SEWER SHALL BE BY EITHER OF THE FOLLOWING METHODS:
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 27" (675) OR SMALLER SEE DETAIL "A" AND "B".
 - PROPOSED STORM SEWER CONNECTION TO EXISTING SEWER OF 30" (750) OR LARGER SEE DETAIL "C".

IF THE EXISTING SEWER PIPE IS CRACKED, BROKEN OR OTHERWISE DAMAGED BY THE CONTRACTOR IN MAKING THE CIRCULAR OPENING, THE CONTRACTOR SHALL REPLACE THAT SECTION OF PIPE WITH PIPE EQUAL AND SIMILAR IN ALL RESPECTS TO THE PIPE IN THE EXISTING SEWER, IN A CAREFUL WORKMANLIKE MANNER, WITHOUT EXTRA COMPENSATION.

GENERAL

CARE MUST BE TAKEN TO PREVENT DEBRIS FROM ENTERING THE SEWER. ALL DEBRIS WHICH ENTERS THE SEWER MUST BE REMOVED. THE SEWER MUST BE LEFT CLEAN AND UNOBSTRUCTED UPON COMPLETION OF THE CONTRACT.

CARE MUST BE TAKEN TO PREVENT ANY PART OF THE NEW PIPE CONNECTION FROM PROJECTING INTO THE EXISTING SEWER.

BASIS OF PAYMENT

TEE OR WYE CONNECTIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR STORM SEWER TEE OR WYE OF THE TYPE AND SIZE SPECIFIED IN THE PLANS. THIS PRICE SHALL INCLUDE ALL EXCAVATION OF THE TRENCH, REMOVAL OF THE EXISTING STORM SEWER, FURNISHING AND INSTALLING THE SPECIFIED TEE OR WYE SECTION, FURNISHING AND INSTALLING THE REQUIRED CONCRETE COLLAR, AND ALL OTHER MATERIAL NECESSARY TO COMPLETE THIS WORK AS SHOWN AND SPECIFIED.

REMOVAL AND REINSTALLATION OF EXISTING STORM SEWER ADJACENT TO THE PROPOSED TEE OR WYE SECTION, FOR THE PURPOSE OF FACILITATING THE INSTALLATION OF THE TEE OR WYE SECTION, WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR THE WORK.

TRENCH BACKFILL, EXCAVATION IN ROCK AND REMOVAL AND REPLACEMENT OF UNSUITABLE MATERIAL BELOW PLAN BEDDING GRADE WILL BE PAID FOR SEPARATELY.

CONCRETE COLLAR FOR CONNECTING A PROPOSED STORM SEWER TO AN EXISTING STORM SEWER WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE PROPOSED STORM SEWER.

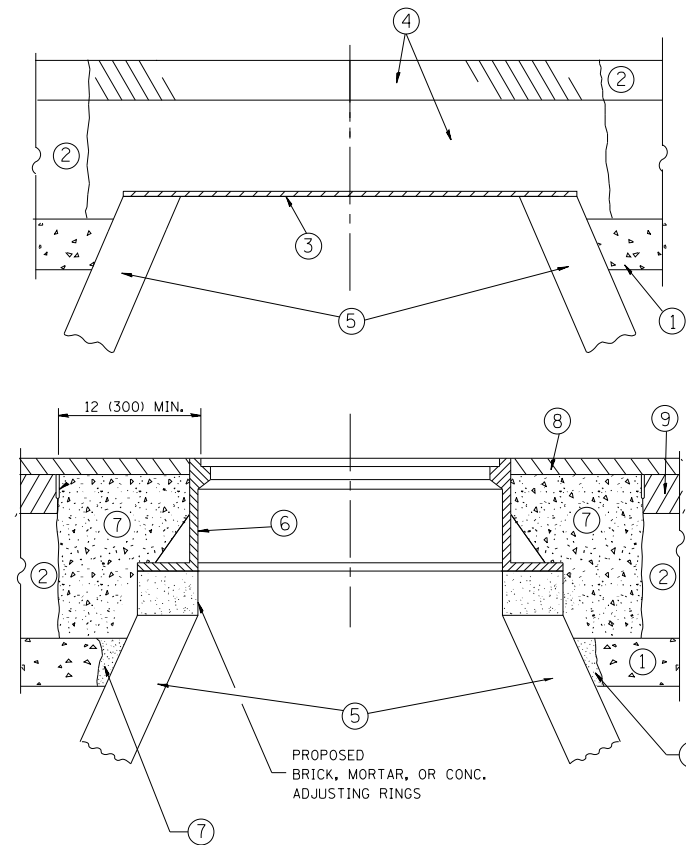
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	PLOT DATE = 12/15/2016	DATE - 07-25-90	REVISED - R. SHAH 06-12-96

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BD-07

SCALE: NONE SHEET NO. 1 OF 32 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	442	362
BD500-01 (BD-7)			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

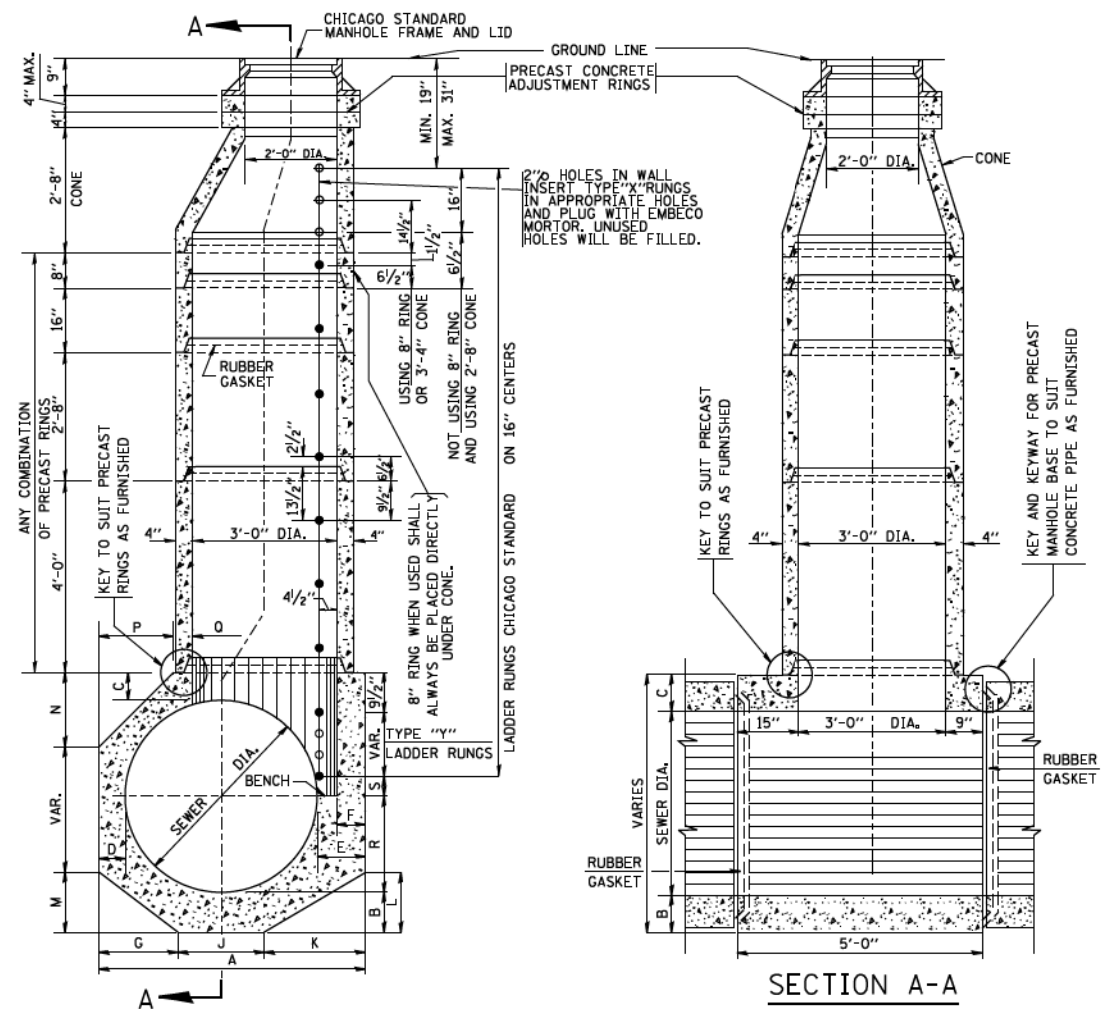
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		DRAWN -	REVISED - R. BORO 01-01-07
	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

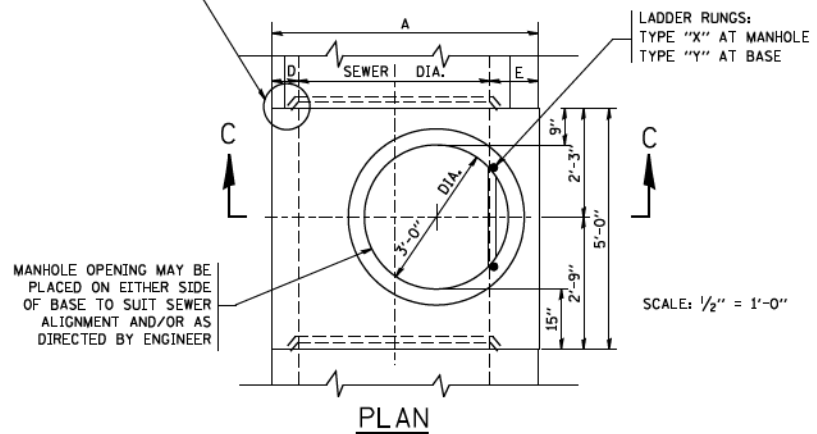
**DISTRICT 1 STANDARD DETAILS
BD-08**

SCALE: NONE SHEET NO. 2 OF 32 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
*	2013-011R	COOK	442	363
BD600-03 (BD-8)		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

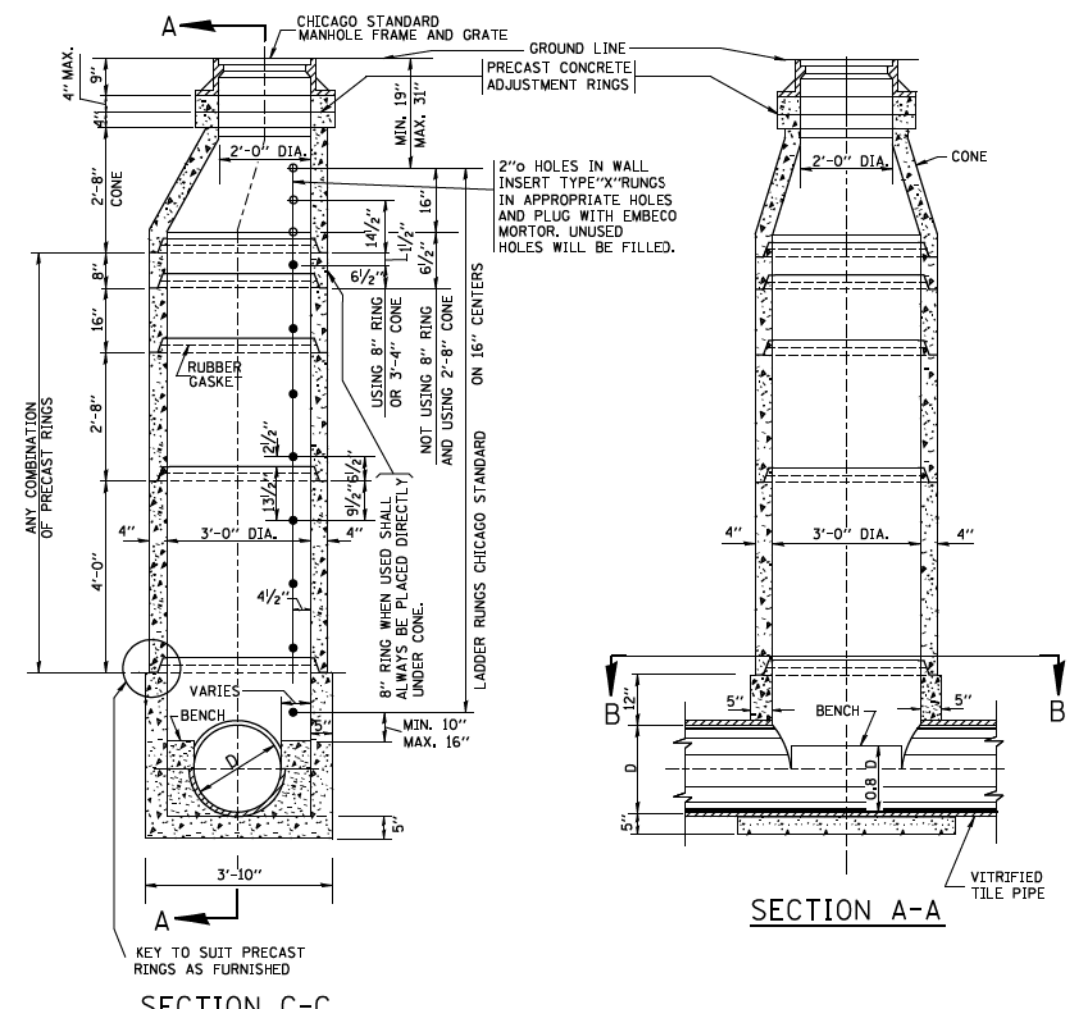


SECTION C-C



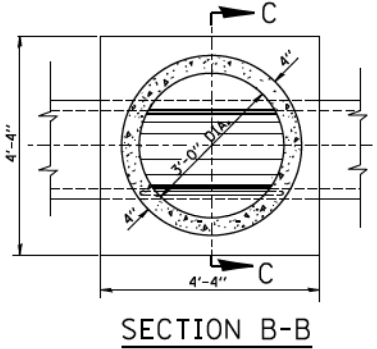
PLAN

TYPE "A" MANHOLE
FOR SEWERS
24" TO 120" DIAMETER
PRECAST BASES AND RINGS



SECTION C-C

TYPE "A" MANHOLE
FOR SEWERS
21" DIAMETER AND SMALLER
PRECAST BASES AND RINGS



SECTION B-B

SCALE: 1/2" = 1'-0"

SEWER DIA.	PART OF ITEM	DIMENSIONS OF PRECAST MANHOLE BASE																NO. "Y" RINGS
		A	B	C	D	E	F	G	J	K	L	M	N	P	Q	R		
120"	---	12'-4 1/2"	12"	12"	12"	16 1/2"	12"	4'-0"	4'-0"	4'-4 1/2"	2'-7 1/2"	2'-5"	3'-7"	3'-7"	4'-8 1/2"	2'-0"	2 1/2"	7
108"	---	11'-4 1/2"	12"	12"	12"	16 1/2"	12"	3'-8"	3'-8"	4'-0 1/2"	2'-5"	2'-2"	3'-4"	3'-4"	4'-0 1/2"	2'-0"	6 1/2"	6
102"	---	10'-10 1/2"	12"	12"	12"	16 1/2"	12"	3'-6"	3'-6"	3'-10 1/2"	2'-4"	2'-1"	3'-2"	3'-2"	3'-8 1/2"	2'-0"	16 1/2"	5
96"	10-A	10'-2 1/2"	11"	11"	11"	15 1/2"	11"	3'-3"	3'-3"	3'-8 1/2"	2'-3"	23"	2'-11"	2'-11"	3'-4 1/2"	2'-0"	9 1/2"	5
90"	10-B	9'-8 1/2"	11"	11"	11"	15 1/2"	11"	3'-1"	3'-1"	3'-6 1/2"	2'-1 1/2"	22"	2'-10"	2'-10"	2'-11 1/2"	2'-0"	3 1/2"	5
84"	10-C	9'-0 1/2"	10"	10"	10"	14 1/2"	10"	2'-11"	2'-11"	3'-2 1/2"	23"	21"	2'-7"	2'-7"	2'-7 1/2"	2'-0"	12 1/2"	4
78"	10-D	8'-6 1/2"	10"	10"	10"	14 1/2"	10"	2'-9"	2'-9"	3'-0 1/2"	22"	20"	2'-6"	2'-6"	2'-2 1/2"	2'-0"	6 1/2"	4
72"	10	7'-10 1/2"	9"	9"	9"	13 1/2"	9"	2'-6"	2'-6"	2'-10 1/2"	21"	18"	2'-3"	2'-3"	22 1/2"	2'-0"	15 1/2"	3
66"	11	7'-4 1/2"	9"	9"	9"	13 1/2"	9"	2'-4"	2'-4"	2'-8 1/2"	19 1/2"	17"	2'-1"	2'-1"	18 1/2"	2'-0"	9 1/2"	3
60"	12	6'-8 1/2"	8"	8"	8"	12 1/2"	8"	2'-1 1/2"	2'-1 1/2"	2'-6"	18"	15"	23"	23"	13 1/2"	2'-0"	2 1/2"	3
54"	13	6'-2 1/2"	8"	8"	8"	12 1/2"	8"	23 1/2"	23"	2'-4"	17"	14"	21"	21"	9 1/2"	2'-0"	12 1/2"	2
48"	14	5'-6 1/2"	7"	7"	7"	11 1/2"	7"	20 1/2"	21"	2'-1"	15"	12 1/2"	18 1/2"	18 1/2"	5"	2'-0"	5 1/2"	2
42"	15	5'-0 1/2"	7"	7"	7"	11 1/2"	7"	18 1/2"	19"	23"	14"	11"	---	---	17 1/2"	21"	2 1/2"	2
36"	16	4'-4 1/2"	6"	6"	6"	10 1/2"	6"	16"	16"	20 1/2"	12 1/2"	9 1/2"	---	---	10 1/2"	18"	14 1/2"	1
30"	17	4'-0"	6"	6"	6"	12"	6"	14"	14"	20"	12"	8 1/2"	---	---	6"	15"	11 1/2"	1
24"	18	4'-0"	6"	6"	12"	12"	6"	16"	16"	16"	9 1/2"	9 1/2"	---	---	6"	12"	8 1/2"	1

FOR STATE CONTRACT
ALL DIMENSIONS SHOULD
BE PREPARED IN METRIC
UNITS SOFT CONVERSION
METHOD SHOULD BE USED.

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W:\dststd\22x34\bd09.dgn

USER NAME = geglanoht
DESIGNED -
DRAWN -
PLOT SCALE = 50.0000 / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE - 06-18-82

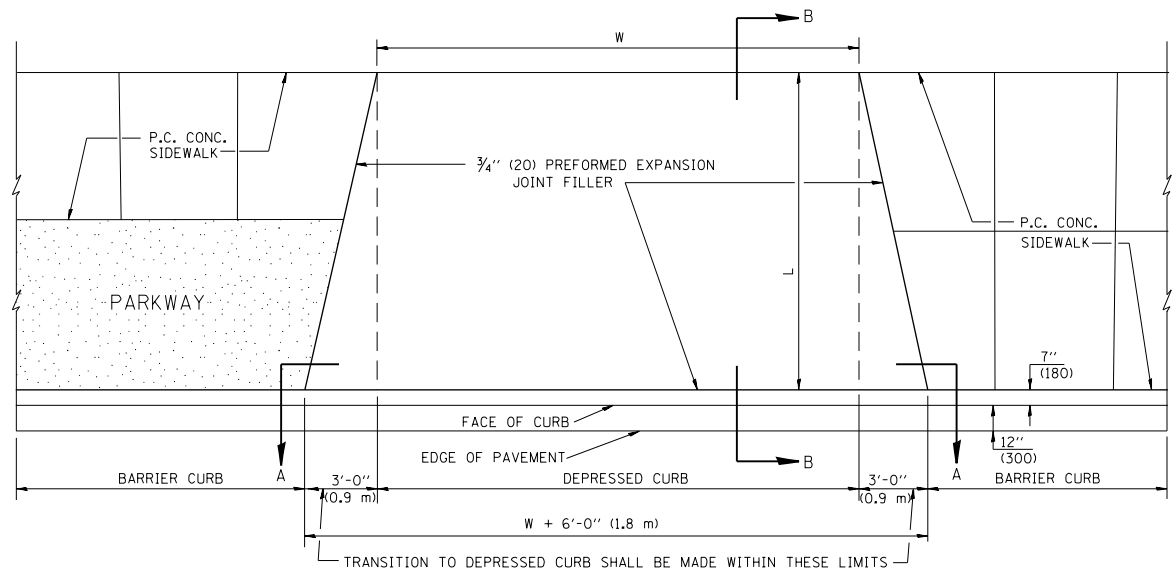
REVISED - 09-22-90
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
DRAINAGE DETAILS

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

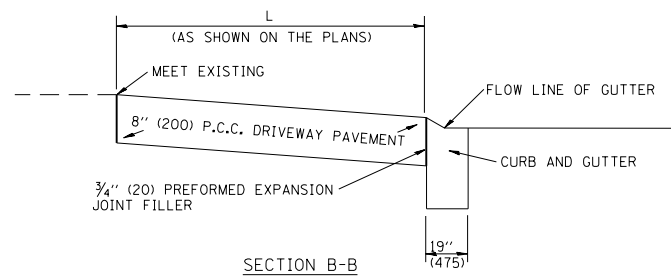
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	364
BD600-12 (BD-9)			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. J ILLINOIS FED. AID PROJECT				



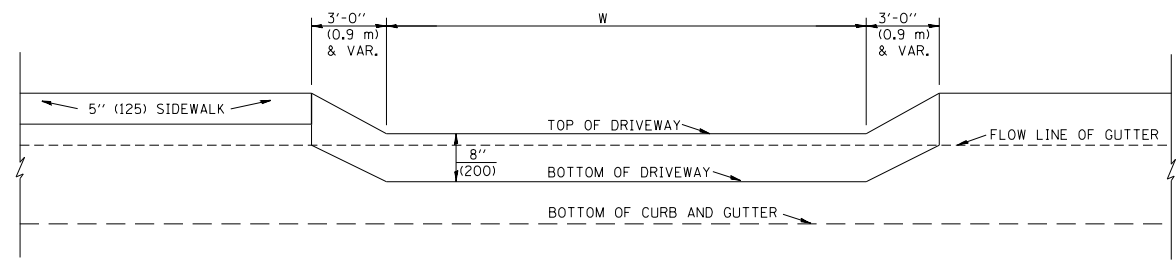
PLAN VIEW

NOTES:

1. EXPANSION JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE DETAILS FOR P.C.C. SIDEWALK.
2. THE CURB BETWEEN ADJACENT DRIVEWAYS SHALL BE FULL HEIGHT FOR A DISTANCE OF AT LEAST FOUR FEET (1.2 METERS)
3. P.C. CONCRETE DRIVEWAYS SHALL BE CONSTRUCTED AT LOCATIONS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
4. 3/4" (20) PREFORMED EXPANSION JOINTS WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCIDENTAL TO P.C.C. DRIVEWAY PAVEMENT 8" (200).
5. COMBINATION CONC. CURB AND GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE TRANSITION CURB AND GUTTER.

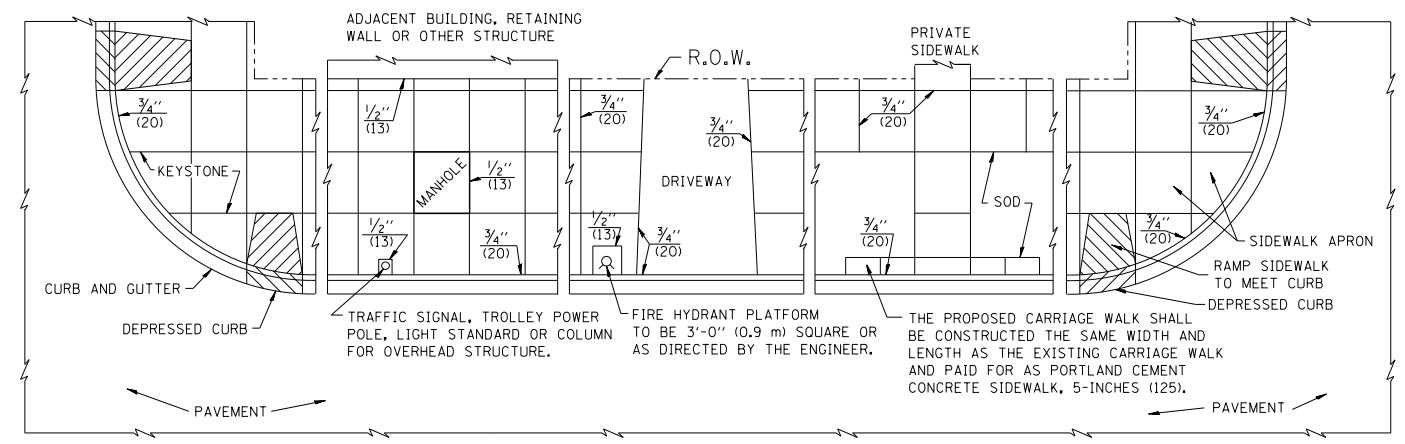


SECTION B-B



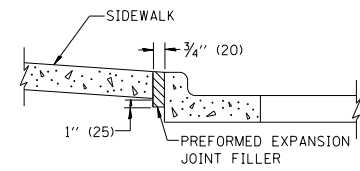
SECTION A-A

P.C.C. DRIVEWAY PAVEMENT DETAIL



NOTES:

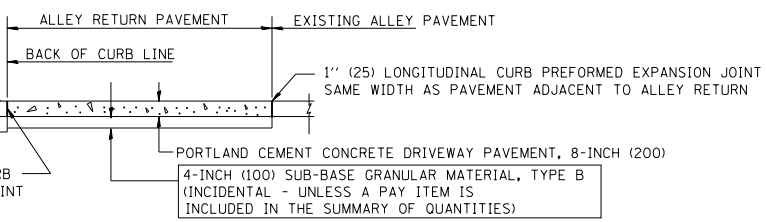
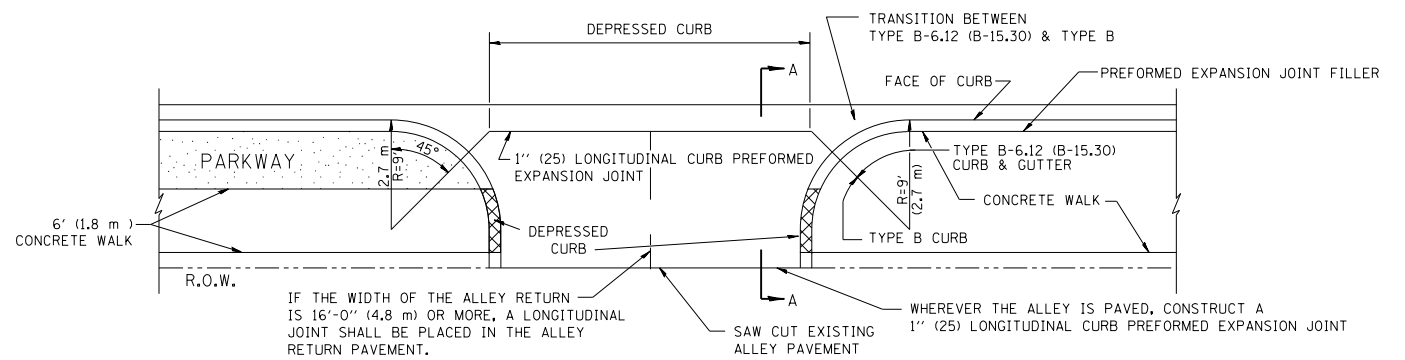
1. ONE-HALF INCH THICK EXPANSION JOINTS SHALL BE PLACED BETWEEN THE SIDEWALK AND ALL STRUCTURES SUCH AS LIGHT STANDARDS, TRAFFIC LIGHT STANDARDS, MANHOLES, WHICH EXTEND THROUGH THE SIDEWALK.
2. 3/4" (20) THICK EXPANSION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 100 FEET (30 METERS) IN THE SIDEWALK, WHERE THE SIDEWALK IS CONSTRUCTED ADJACENT TO PAVEMENT OR CURB HAVING EXPANSION JOINTS, THE EXPANSION JOINTS IN THE SIDEWALK SHALL BE PLACED OPPOSITE THE EXISTING EXPANSION JOINTS AS NEARLY AS PRACTICABLE. EXPANSION JOINTS SHALL ALSO BE PLACED WHERE THE SIDEWALK ABUTS EXISTING SIDEWALKS, BETWEEN DRIVEWAY PAVEMENT AND SIDEWALK, AND BETWEEN SIDEWALK AND CURBS WHERE THE SIDEWALK ABUTS A CURB.



SLOPE FOR SIDEWALK
1" (25) IN 3'-0" (0.9 m) IN CHICAGO

PORTLAND CEMENT CONCRETE SIDEWALK DETAILS

NOTES: NO EXTRA COMPENSATION SHALL BE ALLOWED FOR THE GUTTER FLARE



SECTION A-A

ALLEY RETURN DETAIL

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =
D160X99-SHT-01-Detail-04.dgn

USER NAME = mkwilson
PLOT SCALE = 100.0000' / in.
PLOT DATE = 12/15/2016

DESIGNED - M. DE YONG
DRAWN -
CHECKED -
DATE - 06-13-90

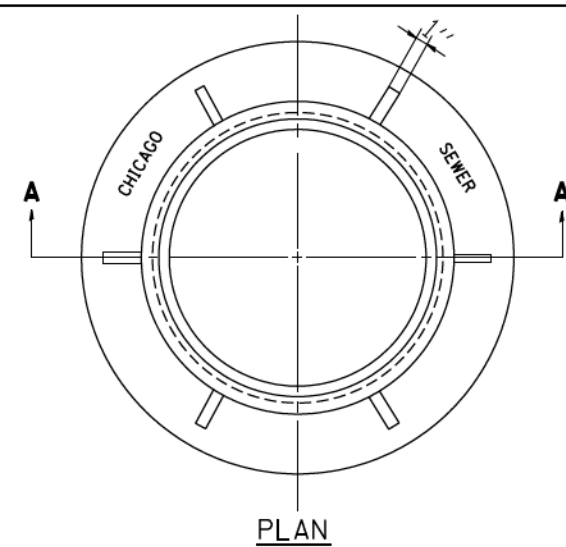
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

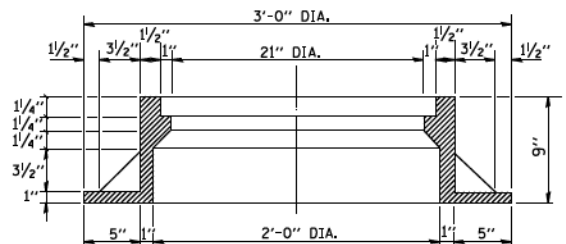
DISTRICT 1 STANDARD DETAILS
BD-17

SCALE: NONE SHEET NO. 4 OF 32 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	442	365
BD400-03 (BD-17)		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
90/94/290				



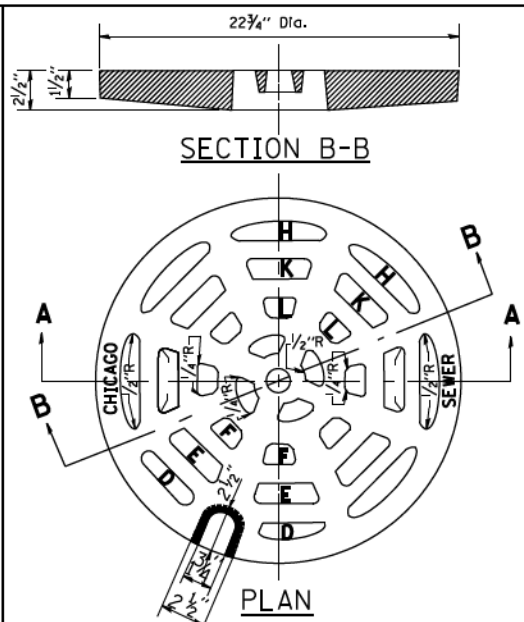
PLAN



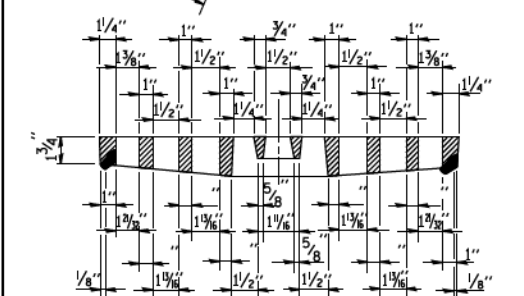
SECTION A-A

NOTE: METAL PLATES MUST BE FURNISHED FOR PERFORATED LIDS ON MANHOLES

CHICAGO STANDARD MANHOLE FRAME
SCALE: 1/2"=1'-0"
MATERIAL: CAST IRON

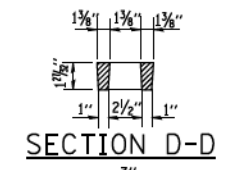


SECTION B-B

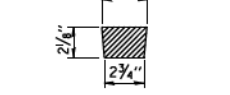


SECTION A-A

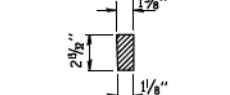
PERFORATED LID FOR CATCH BASINS & MANHOLES
SCALE: 2"=1'-0"
MATERIAL: CAST IRON



SECTION D-D



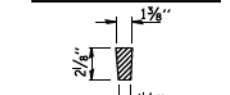
SECTION E-E



SECTION F-F



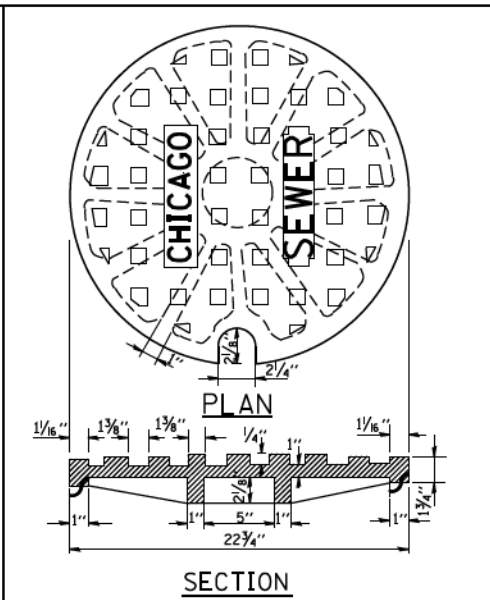
SECTION H-H



SECTION K-K

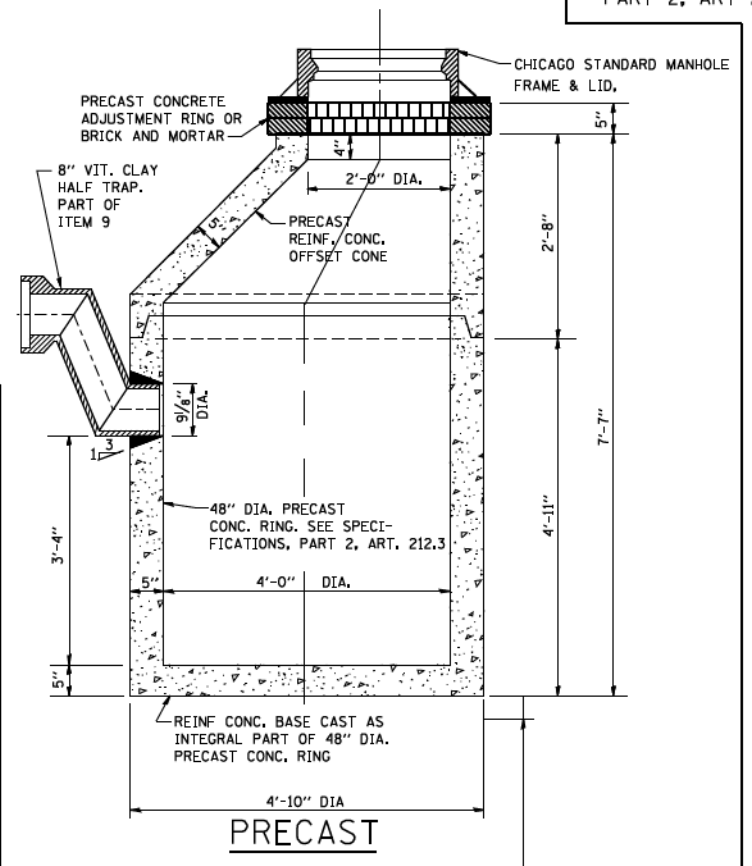


SECTION L-L



SECTION

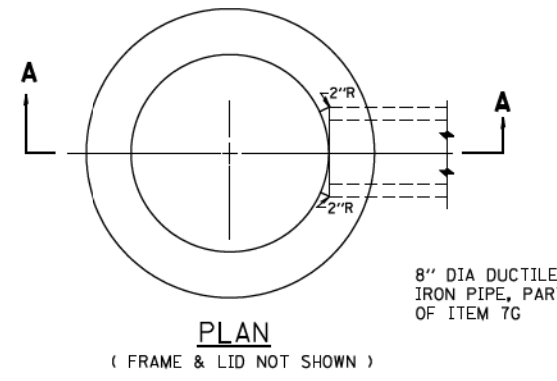
SOLID LID FOR MANHOLES
SCALE: NONE
MATERIAL: CAST IRON



PRECAST

NOTE: 6" MINIMUM GRANULAR EMBEDMENT UNDER ALL CATCH BASINS

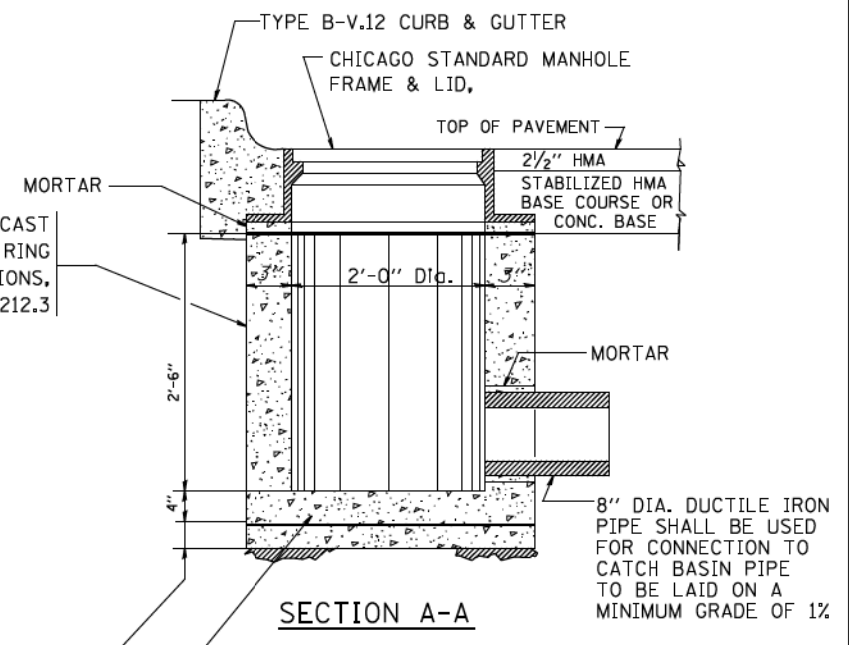
STANDARD CATCH BASINS
SCALE: 3/4"=1'-0"
ITEM 9



PLAN

(FRAME & LID NOT SHOWN)

8" DIA DUCTILE IRON PIPE, PART OF ITEM 7G



SECTION A-A

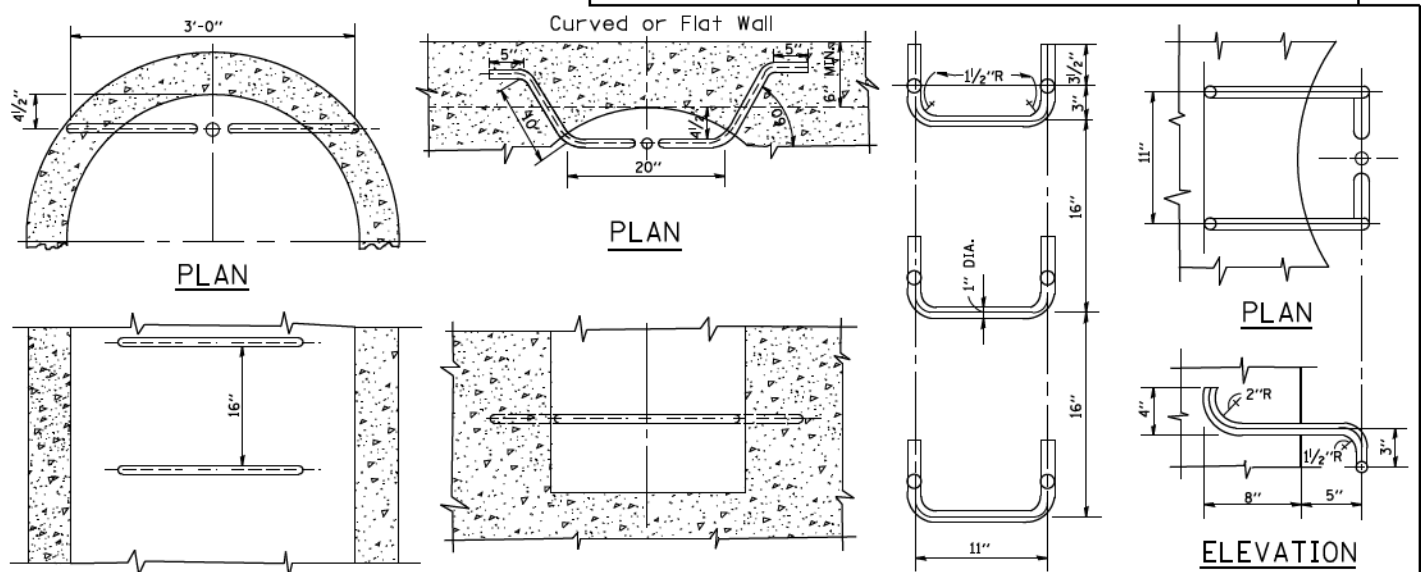
REINF. CONC. BASE CAST AS INTEGRAL PART OF 24" DIA. PRECAST CONC. RING
6" MINIMUM GRANULAR EMBEDMENT UNDER ALL INLETS. FURNISHING AND INSTALLING GRANULAR EMBEDMENT SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 12

STANDARD INLETS
SCALE 1"=1'-0"
ITEM 12

THIS INLET DETAIL IS SOMETIMES REFERRED TO AS "CHICAGO STANDARD INLET, TYPE A"

NOTE: INLETS SHALL NOT BE CONSTRUCTED UNLESS IT IS IMPOSSIBLE TO CONSTRUCT A CATCH BASIN. THE CONTRACTOR SHALL HAVE THE DEPARTMENT OF SEWERS APPROVAL BEFORE CONSTRUCTING INLETS.

CITY OF CHICAGO
DEPARTMENT OF SEWERS
ENGINEERING DIVISION



ELEVATION TYPE X

SCALE: 1"=1'-0"

ELEVATION TYPE Y

SCALE: 1"=1'-0"

SPACING HANDHOLD-TYPE Z RUNG

Scale: 1/2"=1'-0"

STANDARD LADDER RUNGS

ALL LADDER RUNGS SHALL BE ALUMINUM OR GALVANIZED WROUGHT IRON AS SPECIFIED IN THE SPECIFICATIONS, PART 2, ARTICLE 214.2. RUNGS SHALL BE 1" DIAMETER OR OF A SHAPE HAVING AN EQUIVALENT CROSS-SECTIONAL AREA.

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W:\dstd\22x34\bd47.dgn	

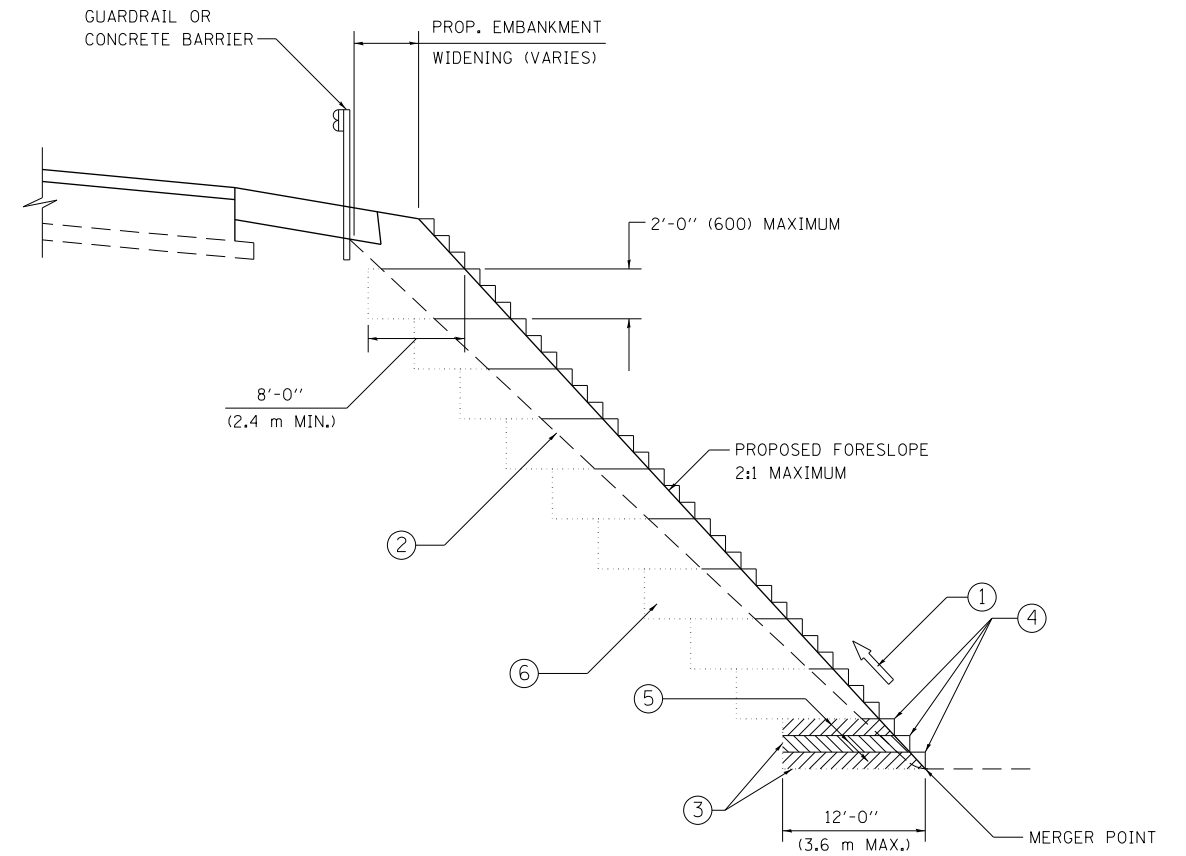
DESIGNED - M. GOMEZ	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 01-25-01	REVISED -

DESIGNED - M. GOMEZ	REVISED -
DRAWN -	REVISED -
CHECKED -	REVISED -
DATE - 01-25-01	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO
CATCH BASIN, INLET AND MANHOLE DETAILS
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	366
BD600-13 (BD47)			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

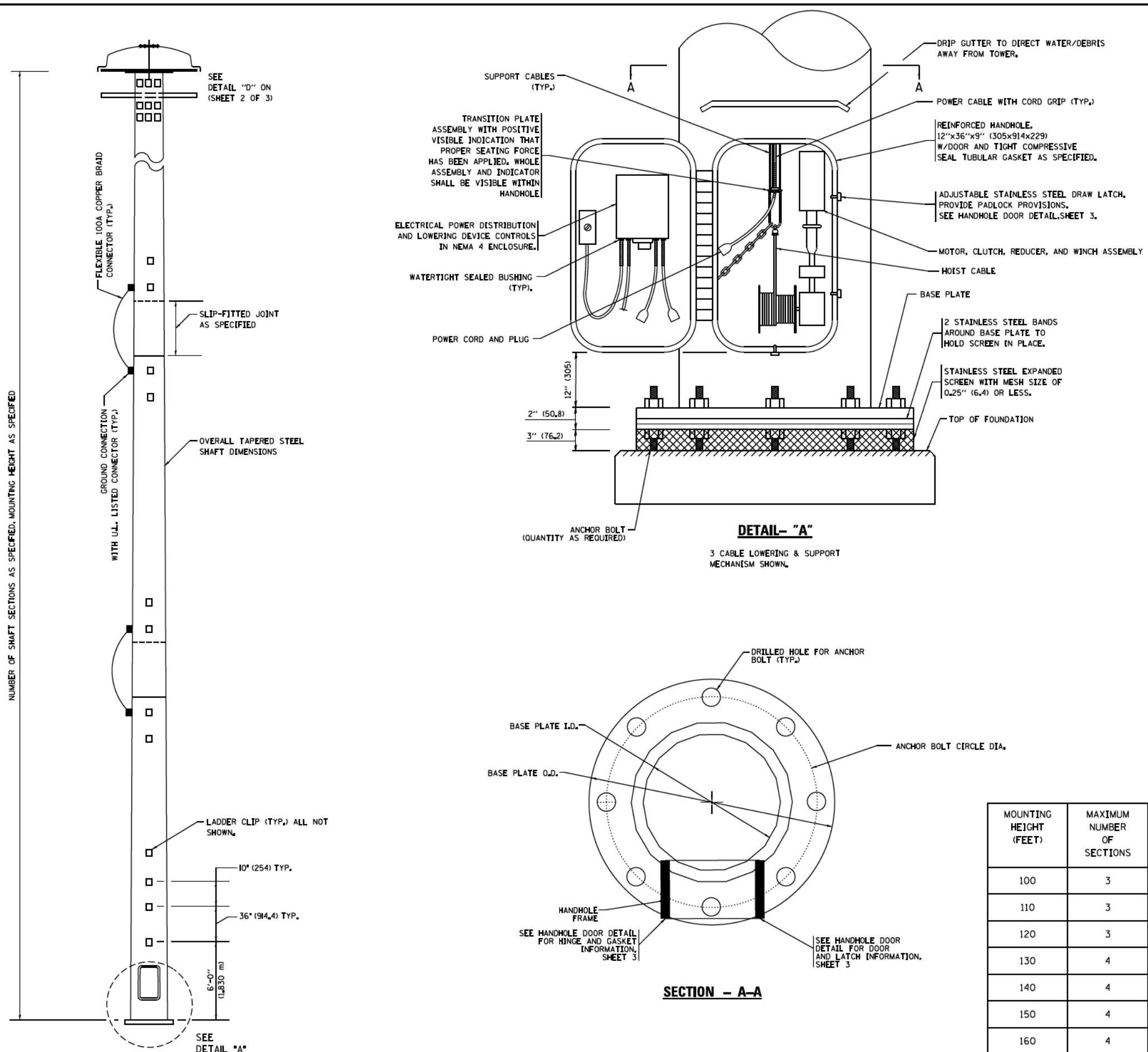
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	PLOT DATE = 12/15/2016	DATE - 06-16-04	REVISED - REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
BD-51

SCALE: NONE SHEET NO. 6 OF 32 SHEETS STA. TO STA.

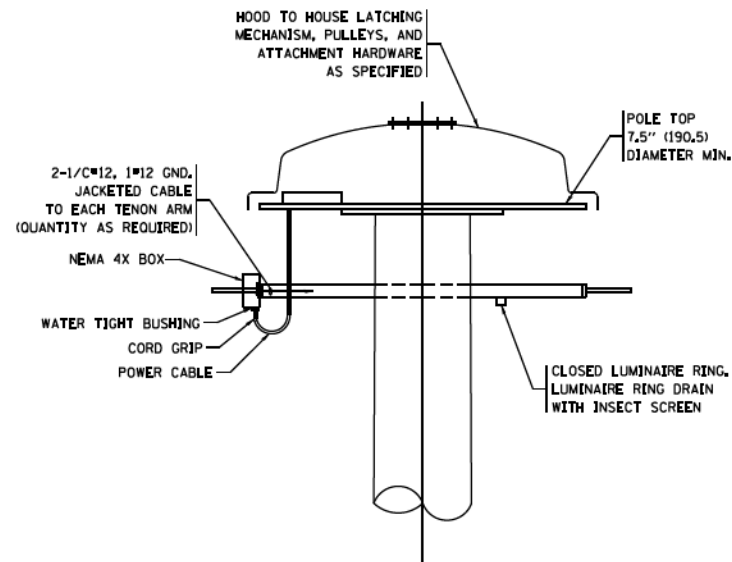
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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BD-51			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



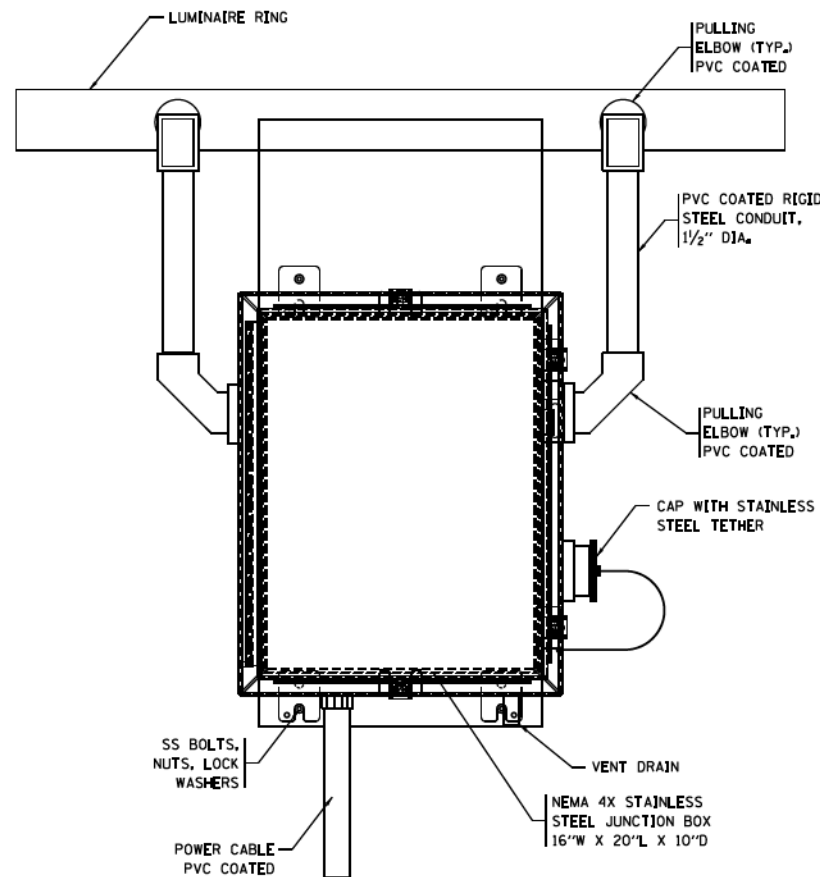
- NOTES:**
1. ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
 2. THE DESIGN SHALL BE BASED UPON AASHTO "LRFD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" IN EFFECT ON THE DATE OF INVITATION FOR BIDS, HOWEVER THE WIDTH OF REINFORCED OPENING REQUIREMENT IN CHAPTER 5, SECTION 5.6.6.1 SHALL NOT APPLY. LIGHT TOWERS SHALL BE DESIGNED FOR ADT > 10,000, RISK CATEGORY TYPICAL, AND FATIGUE IMPORTANCE CATEGORY I. A MINIMUM TOTAL COMBINED LUMINAIRE WEIGHT OF 600 LB (272 KG) SHALL BE USED PLUS A COMBINED HOOD AREA AND LOWERING RING WEIGHT OF 400 LB (181 KG). THE ASSOCIATED TOTAL PROJECTED AREA SHALL BE 24 SQ FT (2.23 SQ M) AND 10 SQ FT (0.93 SQ M) RESPECTIVELY.
 3. ALL TOWER SHAFT COMPONENTS, INCLUDING, BUT NOT LIMITED TO THE SHAFT SECTIONS, BASE PLATE, LADDER CLIPS, HANDHOLE DOOR, HANDHOLE REINFORCING, RAIN GUTTER, AND BASE PLATE, SHALL BE FABRICATED FROM HIGH-STRENGTH, LOW ALLOY, STEEL WITH A MINIMUM YIELD STRENGTH OF 50,000 PSI (345 K PA) ACCORDING TO AASHTO M 270 (ASTM A 572 GR50).
 4. THE ELECTRIC MOTOR, MOTOR GEAR REDUCER, WINCH DRUM ASSEMBLY AND AUTOMATIC SHUTOFF SWITCH OF THE LOWERING DEVICE SHALL BE ACCESSIBLE FROM THE FRONT OF THE TOWER FOR EASY REMOVAL AND MAINTENANCE. ALL COMPONENTS SHALL BE REMOVABLE THROUGH THE HANDHOLE.
 5. THE LIGHT TOWER SHAFT SHALL HAVE LADDER CLIPS, CLIPS SHALL BEGIN 6 FT. (1.8 m) ABOVE THE BASE PLATE WITH ALTERNATE 36 INCH (900) AND 10 INCH (250) SPACING THEREAFTER, FOR THE ENTIRE LENGTH. THE TOP 10 FT. (3 m) OF THE POLE SHAFT SHALL HAVE 3 SETS OF CLIPS. EACH SET OF CLIPS SHALL BE 120 DEGREES APART. CLIPS SHALL BE 0.25 X 2 INCHES (6 X 50) WELDED TO THE SHAFT TO PRODUCE A SLOT 0.625 INCHES (15.9) DEEP AND 1.625 INCHES (41.3) LONG. THE TOP INSIDE EDGE SHALL BE CHAMFERED.
 6. A COPPER BONDING JUMPER SHALL BOND SLIP-FIT POLE SECTIONS TOGETHER WITH A FLAT COPPER MESH AND STAINLESS STEEL GROUND LUGS.
 7. ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
 8. THE ENTIRE TOWER INCLUDING THE SHAFT, HANDHOLE, HANDHOLE DOOR, BASE PLATE AND ALL OTHER ELEMENTS WELDED TO THE SHAFT SHALL BE GALVANIZED IN ACCORDANCE WITH AASHTO M 111 (ASTM A 123). THE LUMINAIRE RING SHALL BE PRIMED AND PAINTED AS SPECIFIED OR BE STAINLESS STEEL.
 9. ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-I-81765/1.
 10. THE LIGHT TOWER SHALL BE STRAIGHT AND CENTERED ON ITS LONGITUDINAL AXIS, UNDER NO-WIND CONDITIONS, SO WHEN EXAMINED WITH A TRANSIT FROM ANY DIRECTION, THE DEVIATION FROM THE NORMAL SHALL NOT EXCEED 1/8 IN. IN 3 FT (2 mm IN 1 m) WITHIN ANY 5 FT (1.5 m) OF HEIGHT, WITH TOTAL DEVIATION NOT TO EXCEED 3 IN. (75) FROM THE VERTICAL AXIS THROUGH THE CENTER OF THE POLE BASE.
 11. PVC CONDUIT WILL NOT BE ALLOWED FOR ANY LIGHT TOWER COMPONENT.
 12. COUNTER WEIGHTS TO BE INCLUDED AS A PART OF THE LIGHT TOWER PAY ITEM.

LIGHT TOWER DIMENSIONS

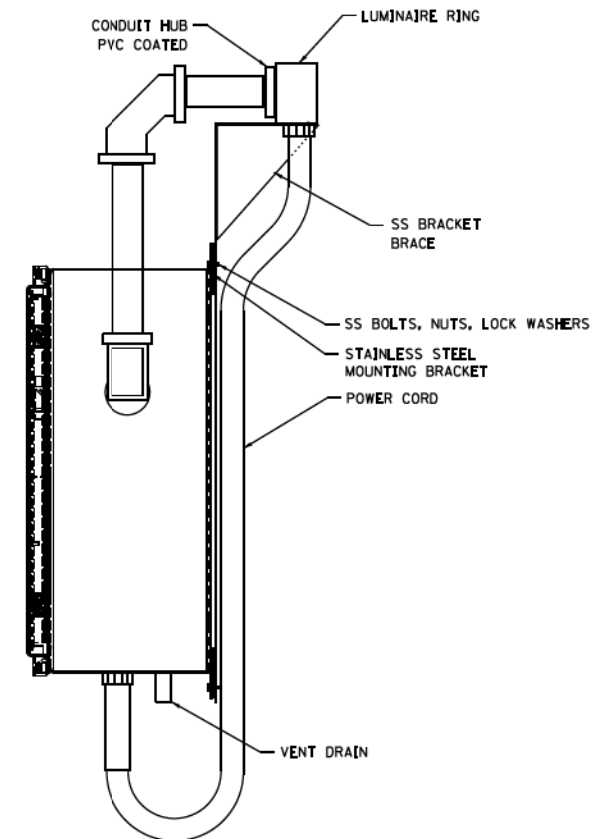
MOUNTING HEIGHT (FEET)	MAXIMUM NUMBER OF SECTIONS	MINIMUM NUMBER OF ANCHOR RODS	MINIMUM TOWER TOP DIAMETER (INCHES)	MINIMUM TOWER BOTTOM DIAMETER (INCHES)	MINIMUM ROD DIAMETER (INCHES)	MINIMUM ANCHOR ROD CIRCLE (INCHES)
100	3	8	7.5	24	1.5	30
110	3	8	7.5	24	1.5	30
120	3	8	7.5	26	1.75	36
130	4	8	7.5	28	1.75	36
140	4	8	7.5	28	1.75	36
150	4	8	7.5	30	2.25	38
160	4	8	7.5	32	2.25	38



DETAIL-D

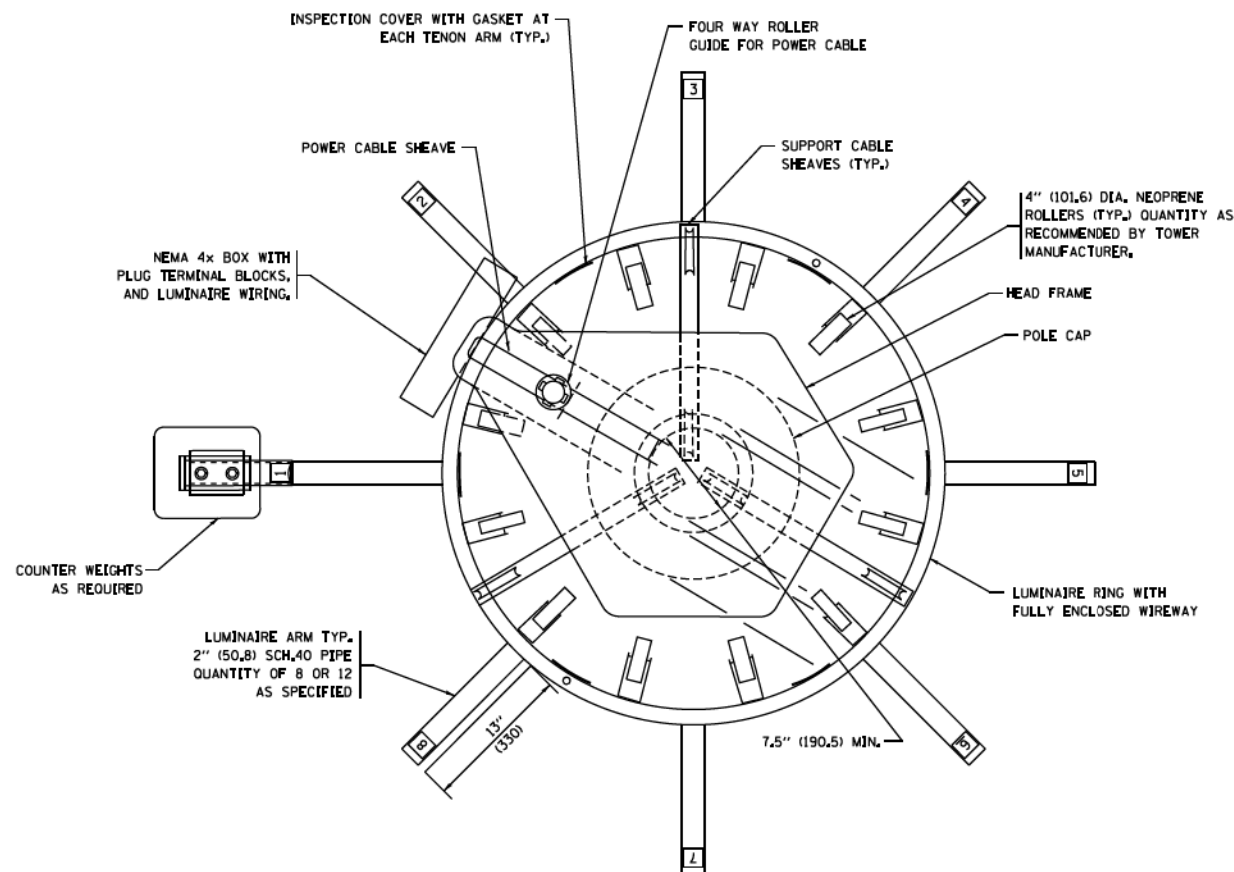


**FRONT VIEW
N.T.S.**



**SIDE VIEW
N.T.S.**

LUMINAIRE RING TERMINAL BOX



NOTES:

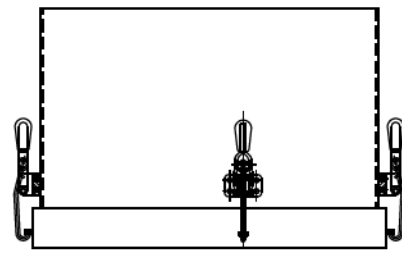
- LUMINAIRE WIRES SHALL EXTEND 24 INCHES (609mm) LONGER THAN THE RESPECTIVE TENON ARM AND SHALL BE TRAINED BACK INTO THE ARM WHICH SHALL THEN BE CLOSED WITH A CAP AS SPECIFIED. ALL WIRES SHALL BE CAPPED WITH HEAT SHRINK INSULATING BOOTS, CRIMP CAPS ARE UNACCEPTABLE. ALL RING WIRES SHALL BE TAGGED WITH WIRE MARKERS AT BOTH ENDS. THE TENON ARMS SHALL ALSO BE TAGGED CORRESPONDING TO THE WIRING CONTAINED WITHIN.
- SPLICING WILL NOT BE ALLOWED WITHIN THE LUMINAIRE RING.
- ALL TOWER SHAFT HARDWARE, SUCH AS GROUND LUGS, JUNCTION BOXES, HARDWARE FOR THE HANDHOLE DOOR, INCLUDING THE HANDLE/LATCH MECHANISM, HINGE AND DOOR STOP, SHALL BE STAINLESS STEEL. ALL CONDUIT AND CONDUIT FITTINGS SHALL BE PVC COATED GALVANIZED STEEL.
- ALL MULTI-CONDUCTOR CABLES SHALL BE FITTED WITH A HEAT-SHRINK MULTI-LEG BOOT. THE BOOT SHALL MEET MILITARY SPECIFICATION MIL-T-81765/1.

FILE NAME :	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
pw\ill084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\082\DWG\CADData\CADsheets\be500.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE -	REVISED - R. TOMSONS 04-29-16
			REVISED - R. TOMSONS 07-26-16

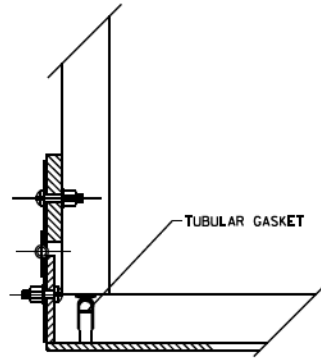
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HIGH MAST LIGHT TOWER			
100 FT TO 160 FT (30 m TO 49 m)			
SCALE:	SHEET 2	OF 3 SHEETS	STA. TO STA.

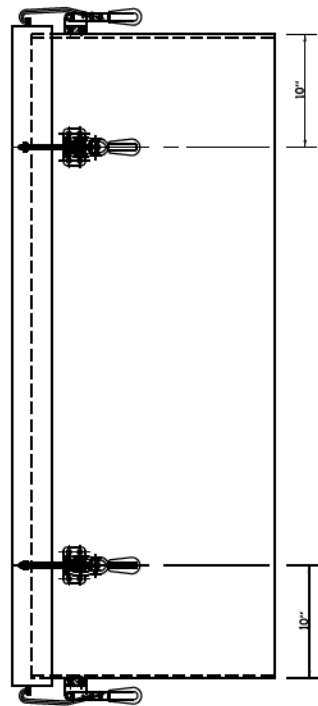
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		442	369
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	



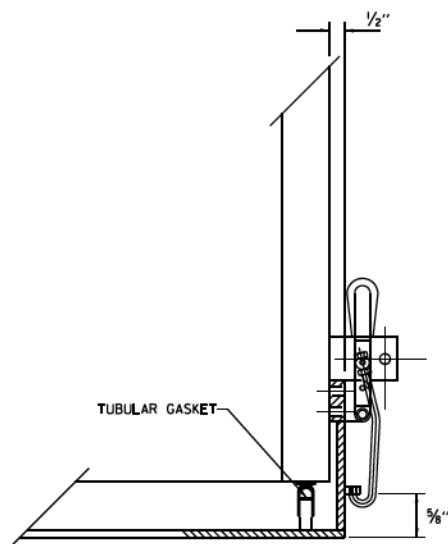
TOP VIEW



HINGE DETAIL

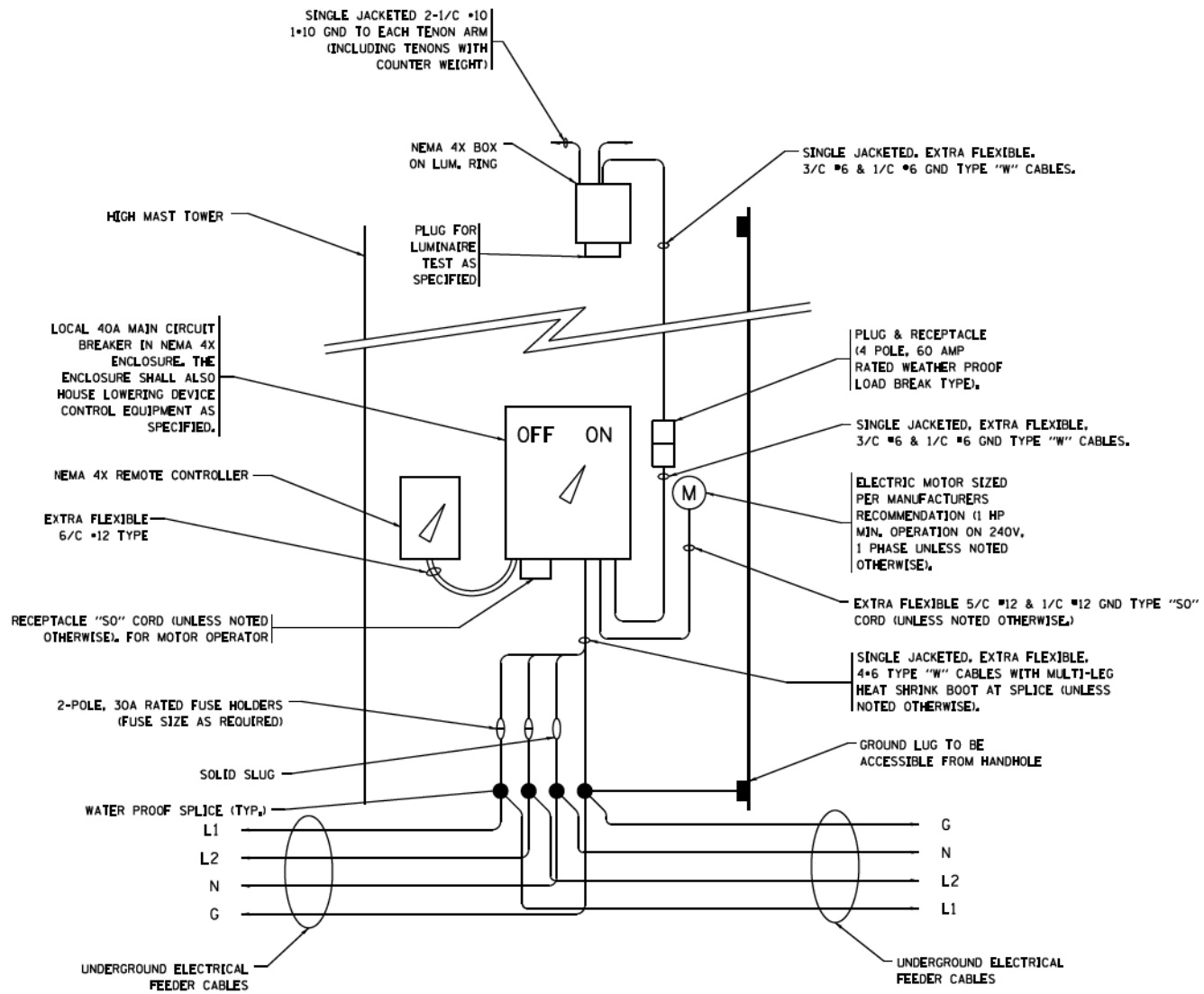


SIDE VIEW

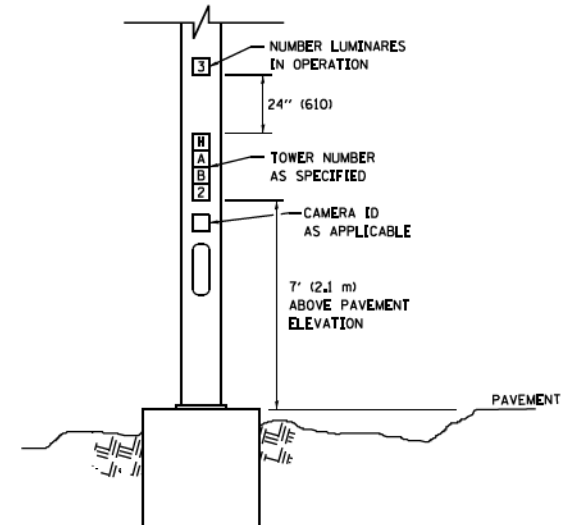


LATCH DETAIL

HANDHOLE DOOR DETAILS



HIGH MAST POLE WIRING DIAGRAM



LIGHT TOWER NUMBERING DETAIL

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - R. TOMSONS 09-02-10
pw\11884EBID\INTEG\Illinois.gov\FWDDT\Documents\IDOT Offices\District 1\Projects\Dist 1\022111\CADData\CADsheets\be500.dgn		REVISED - R. TOMSONS 02-27-13	
	PLOT SCALE = 50.0000 / 1 in.	CHECKED -	REVISED - R. TOMSONS 04-29-16
Default	PLOT DATE = 7/27/2016	DATE -	REVISED - R. TOMSONS 07-26-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HIGH MAST LIGHT TOWER
100 FT TO 160 FT (30 m TO 49 m)

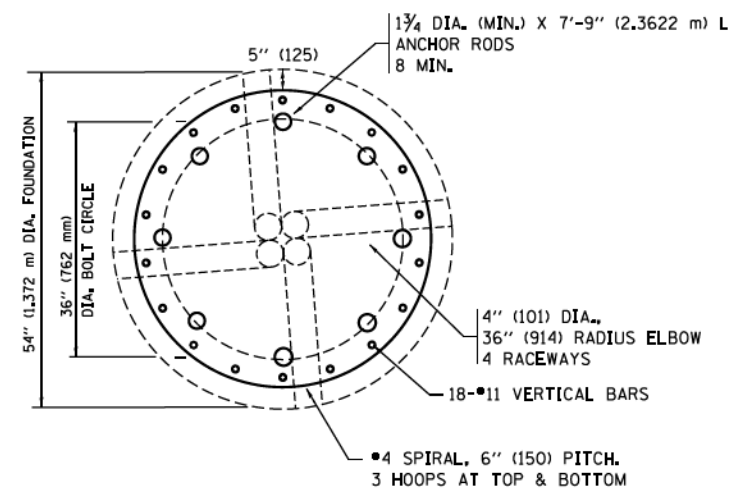
SCALE: SHEET 3 OF 3 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-500		442	370
			CONTRACT NO. 60X99	
ILLINOIS FED. AID PROJECT				

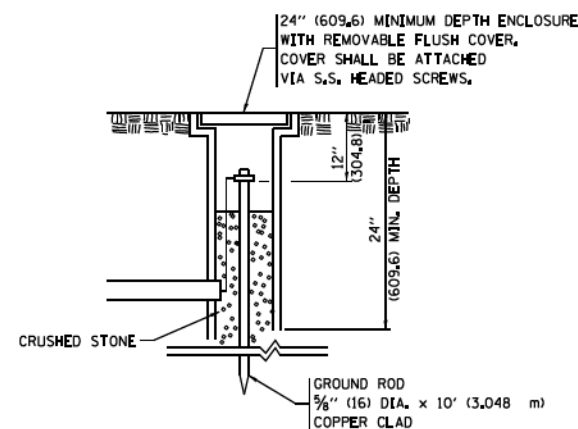
DESIGN NOTES

- ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
- THE ANCHOR RODS SHALL BE VERTICAL NO ADJUSTMENT SHALL BE ALLOWED AFTER THE FOUNDATION IS PLACED.
- THE GAP BETWEEN THE FOUNDATION AND THE BASE PLATE SHALL BE ENCLOSED WITH A STAINLESS STEEL SCREEN FASTENED WITH A STAINLESS STEEL BAND.
- THE TOP OF THE FOUNDATION TO 18" (457) BELOW GRADE SHALL BE FORMED.
- SURFACE WATER WILL NOT BE PERMITTED TO ENTER THE HOLE AND ALL WATER WHICH MAY HAVE INFILTRATED INTO THE HOLE SHALL BE REMOVED BEFORE PLACING CONCRETE.
- THE LIGHT TOWER SHALL NOT BE ERECTED UNTIL AFTER THE CONCRETE HAS BEEN CURED ACCORDING TO ARTICLE 1020.13.
- ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.9.
- ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED FOR APPROVAL WITH TOWER MANUFACTURER REQUIREMENTS.
- REINFORCEMENT BARS SHALL BE ACCORDING TO ARTICLE 1006.10
- TWO ANCHOR RODS OPPOSITE EACH OTHER SHALL HAVE THE ANCHOR ROD THREADS PEENED AFTER NUTS ARE INSTALLED.
- A MINIMUM OF THREE FULL THREADS SHALL REMAIN EXPOSED AFTER LIGHT TOWER IS INSTALLED.
- ALL GROUNDING INDICATED IN THE PLANS SHALL BE INCLUDED IN THE COST OF THE LIGHT TOWER FOUNDATION AND SHALL NOT BE PAID FOR SEPARATELY.
- CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
- ANCHOR ROD QUANTITY, DIAMETER, AND LENGTH SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.
- COORDINATE THE ROD CIRCLE DIAMETER OF THE TOWER WITH THE DIAMETER OF THE ANCHOR ROD CAGE.
- THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.

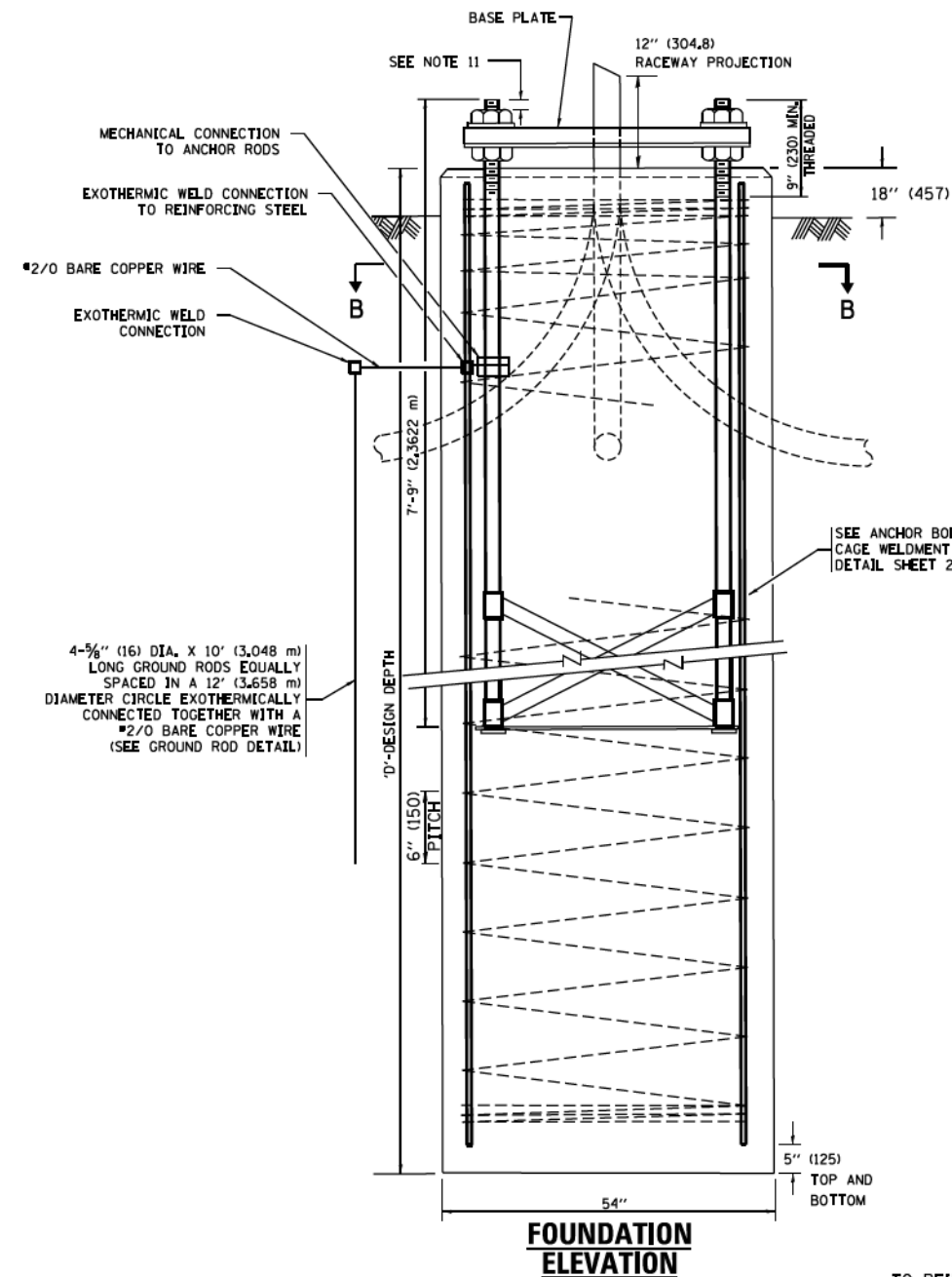
SOIL CONSISTENCY		SHAFT LENGTH (D) TABLE			
		AVERAGE STRENGTH (Q_u In tsf (Q_u In kPa))	LIGHT TOWER MOUNTING HEIGHT		
			120 FT. (37 m)	130 FT. (40 m)	140 FT. (43 m)
SOFT		<0.5 (<50)	25'-0" (7.6 m)	26'-6" (8.0 m)	27'-6" (8.3 m)
	MEDIUM	0.5 TO 1 (50 TO 100)	20'-6" (6.2 m)	21'-6" (6.4 m)	22'-0" (6.7 m)
COHESIVE	STIFF	1 TO 2 (100 TO 200)	17'-6" (5.2 m)	18'-0" (5.4 m)	18'-6" (5.5 m)
	VERY STIFF	2 TO 4 (200 TO 400)	15'-0" (4.5 m)	15'-6" (4.6 m)	16'-0" (4.7 m)
HARD		>4 (>400)	13'-6" (4.0 m)	13'-6" (4.1 m)	14'-0" (4.2 m)
		N In BLOWS/FT. (N In BLOWS/0.3m)			
VERY LOOSE		<5 (<5)	19'-0" (6.3 m)	20'-0" (6.0 m)	20'-6" (6.2 m)
	LOOSE	5 TO 10 (5 TO 10)	17'-6" (5.7 m)	18'-0" (5.5 m)	18'-6" (5.6 m)
GRANULAR	MEDIUM	10 TO 25 (10 TO 25)	16'-6" (5.5 m)	17'-0" (5.2 m)	17'-6" (5.3 m)
	DENSE	25 TO 50 (25 TO 50)	15'-6" (5.2 m)	16'-6" (4.9 m)	16'-6" (5.0 m)
VERY DENSE		>50 (>50)	15'-0" (4.5 m)	15'-6" (4.7 m)	16'-0" (4.8 m)



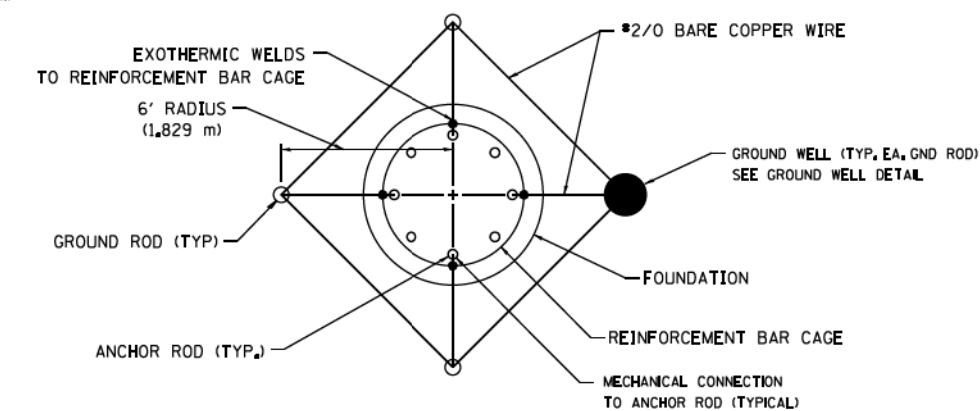
SECTION-B-B



GROUND WELL DETAIL



FOUNDATION ELEVATION



GROUND ROD DETAIL

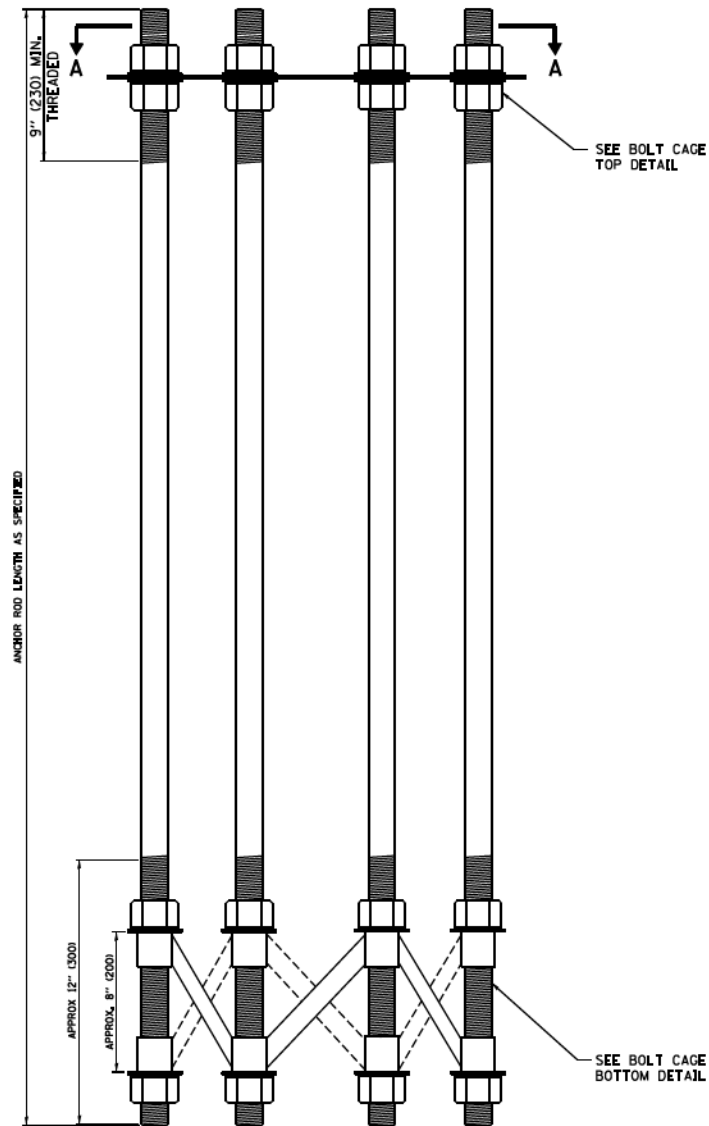
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pw\11.084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\022\11\CADData\CAD\Sheets\be506.dgn		CHECKED -	REVISED - R. TOMSONS 02-27-13
		DATE - 03-12-10	REVISED - R. TOMSONS 04-29-16
			REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

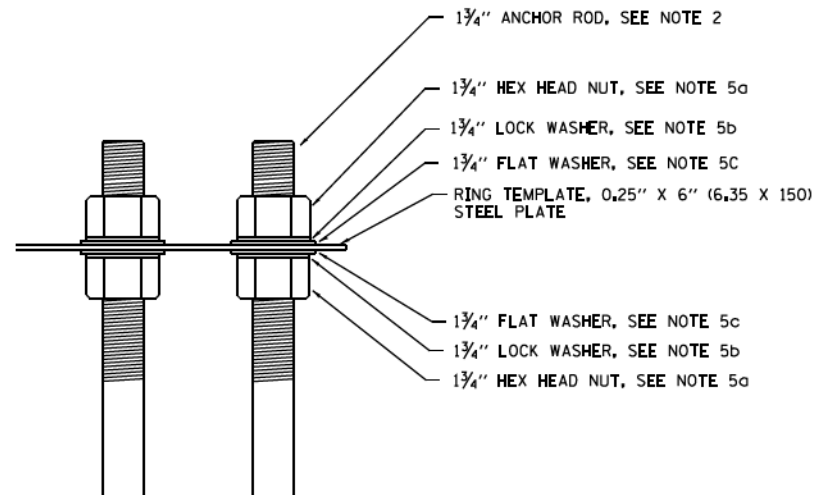
HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

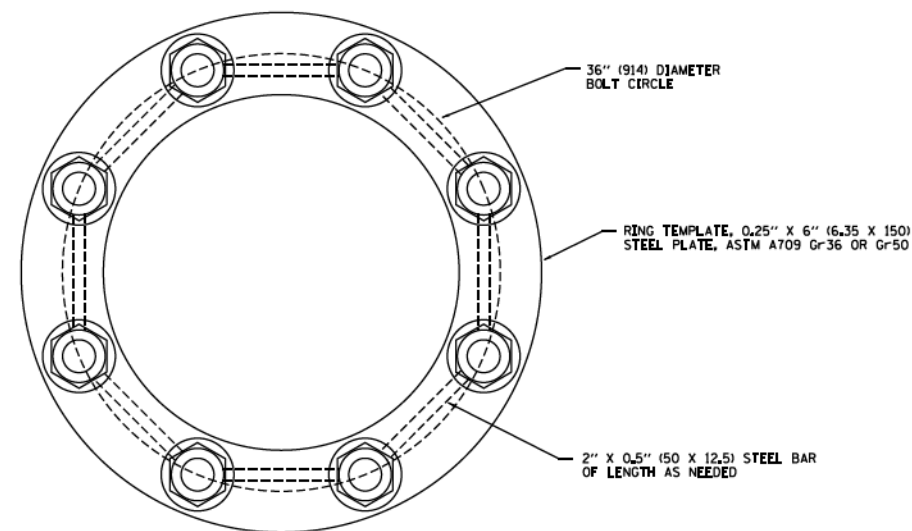
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		442	371
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	



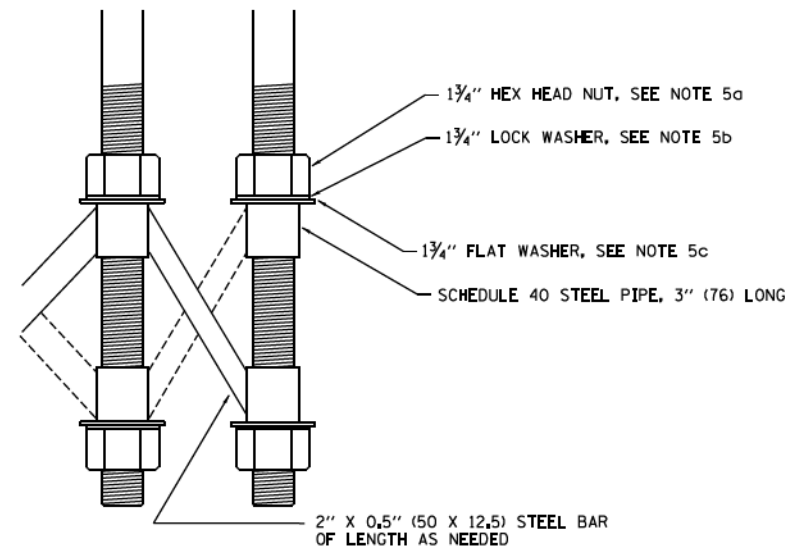
ANCHOR BOLT CAGE



BOLT CAGE TOP



SECTION A-A



BOLT CAGE BOTTOM

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN
2. ANCHOR RODS SHALL BE STRAIGHT AND SHALL BE ACCORDING TO ASTM F1554, GRADE 725 (GRADE 105) AND GALVANIZED ACCORDING TO ARTICLE 1006.09.
3. ANCHOR ROD INFORMATION SHALL BE SUBMITTED FOR APPROVAL AND SHALL BE FULLY COORDINATED WITH TOWER MANUFACTURERS REQUIREMENTS
4. CUT NUTS, OR JAM NUTS, ARE NOT ALLOWED
5. ANCHOR ROD CAGE HARDWARE SHALL BE IN ACCORDANCE WITH THE FOLLOWING:
 - a) 1.5 (38) HEX HEAD NUTS
AASHTO M291, GRADE C, C3, D, DH OR DH3
HOT DIPPED GALVANIZED AASHTO M 232
 - b) 1.5 (38) HELICAL LOCK WASHERS
ANSI/ASME B18.21.1
I.D. 1.504 - 1.524
O.D. 2.159 MAX.
WIDTH 0.292 MIN.
THICKNESS 0.375 MIN.
HARDNESS 26-45 ROCKWELL C
HOT DIPPED GALVANIZED AASHTO M232
 - c) 1.5 (38) FLAT WASHERS
AASHTO M293
O.D. 2.75
I.D. 1.56
THICKNESS 0.16 - 0.25
HARDNESS 26-45 ROCKWELL C.
HOT DIPPED GALVANIZED AASHTO M232
6. THE SHAFT LENGTHS SHALL BE BASED ON SOIL BORINGS IN THE PLANS AND OR A DETERMINATION OF SOIL CONDITIONS BY THE ENGINEER.
7. ALL FOUNDATION REINFORCEMENT STEEL SHALL BE EPOXY COATED.
8. THE FOUNDATION SHALL BE POURED MONOLITHICALLY AND SHALL HAVE NO CONSTRUCTION JOINTS.
9. ANCHOR RODS AND ALL ASSOCIATED HARDWARE ARE SHOWN AS MINIMUMS. SIZING SHALL BE DETERMINED BY THE TOWER MANUFACTURER AND APPROVED BY THE ENGINEER. EACH FOUNDATION SHALL HAVE A MINIMUM OF 8 ANCHOR RODS.

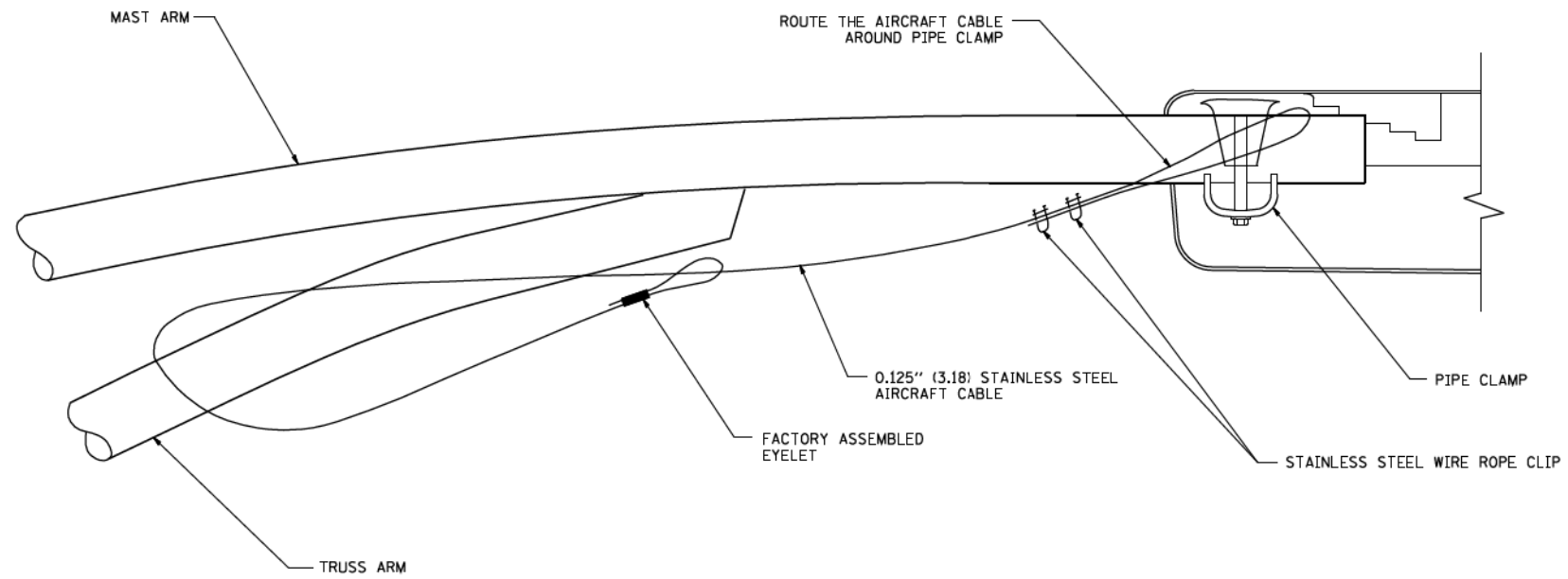
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Default	PLOT SCALE = 50.000' / 1in.	CHECKED -	REVISED -
	PLOT DATE = 4/29/2016	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

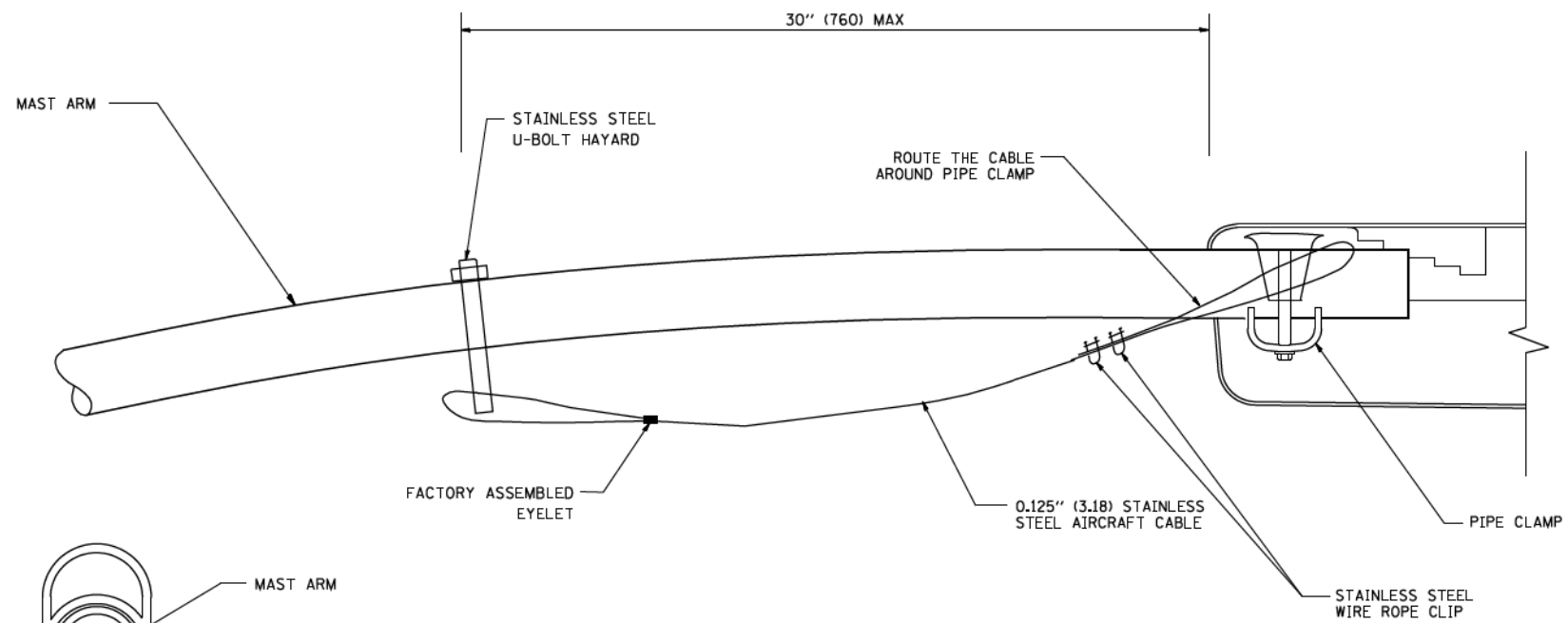
**HIGH MAST LIGHT TOWER
120 FT TO 140 FT FOUNDATION DETAIL**

SCALE: SHEET 2 OF 2 SHEETS STA. TO STA.

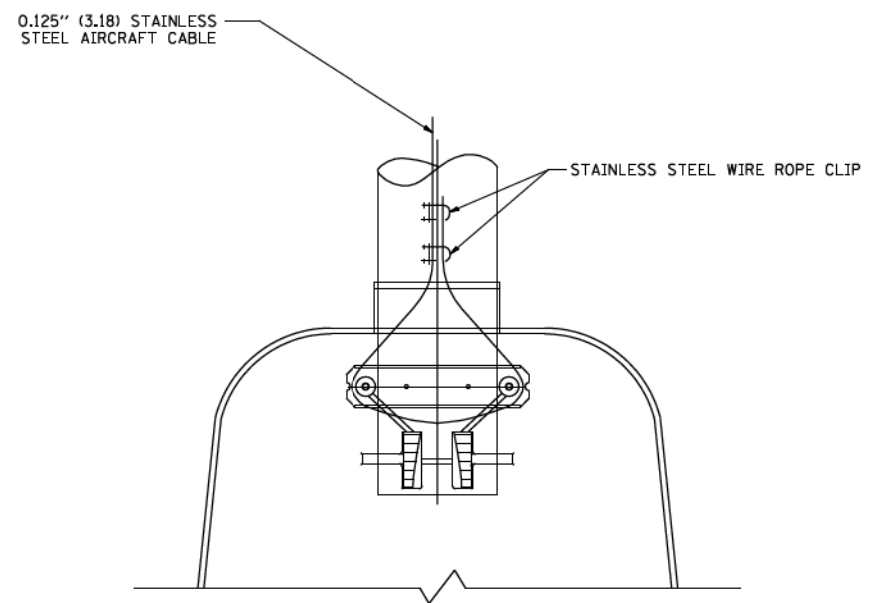
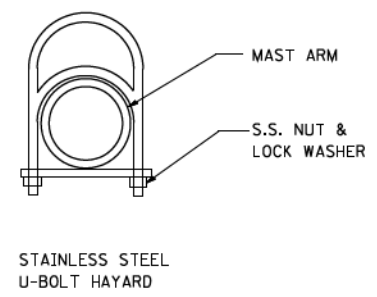
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	BE-506		442	372
			CONTRACT NO.	60X99
ILLINOIS FED. AID PROJECT				



SIDE VIEW (TRUSS ARM)
N.T.S.



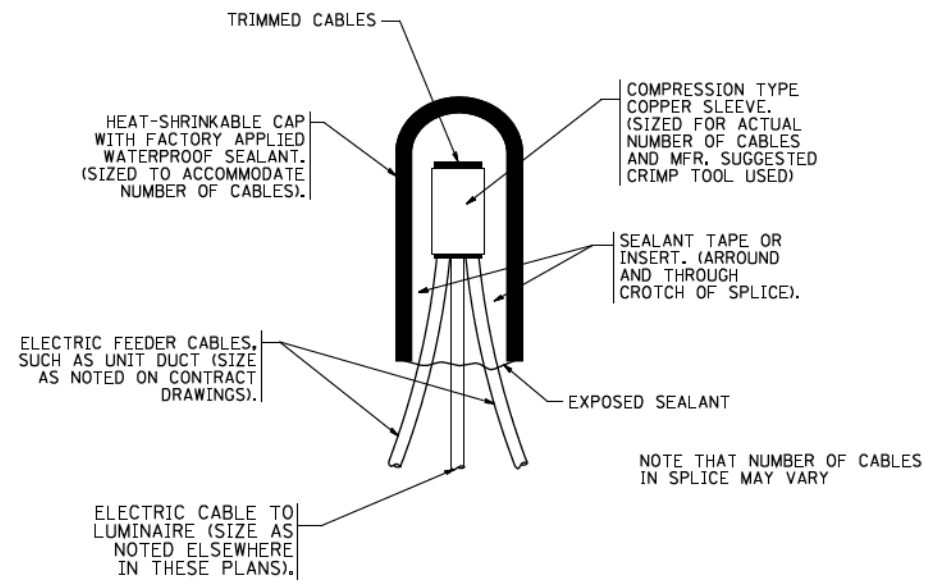
SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

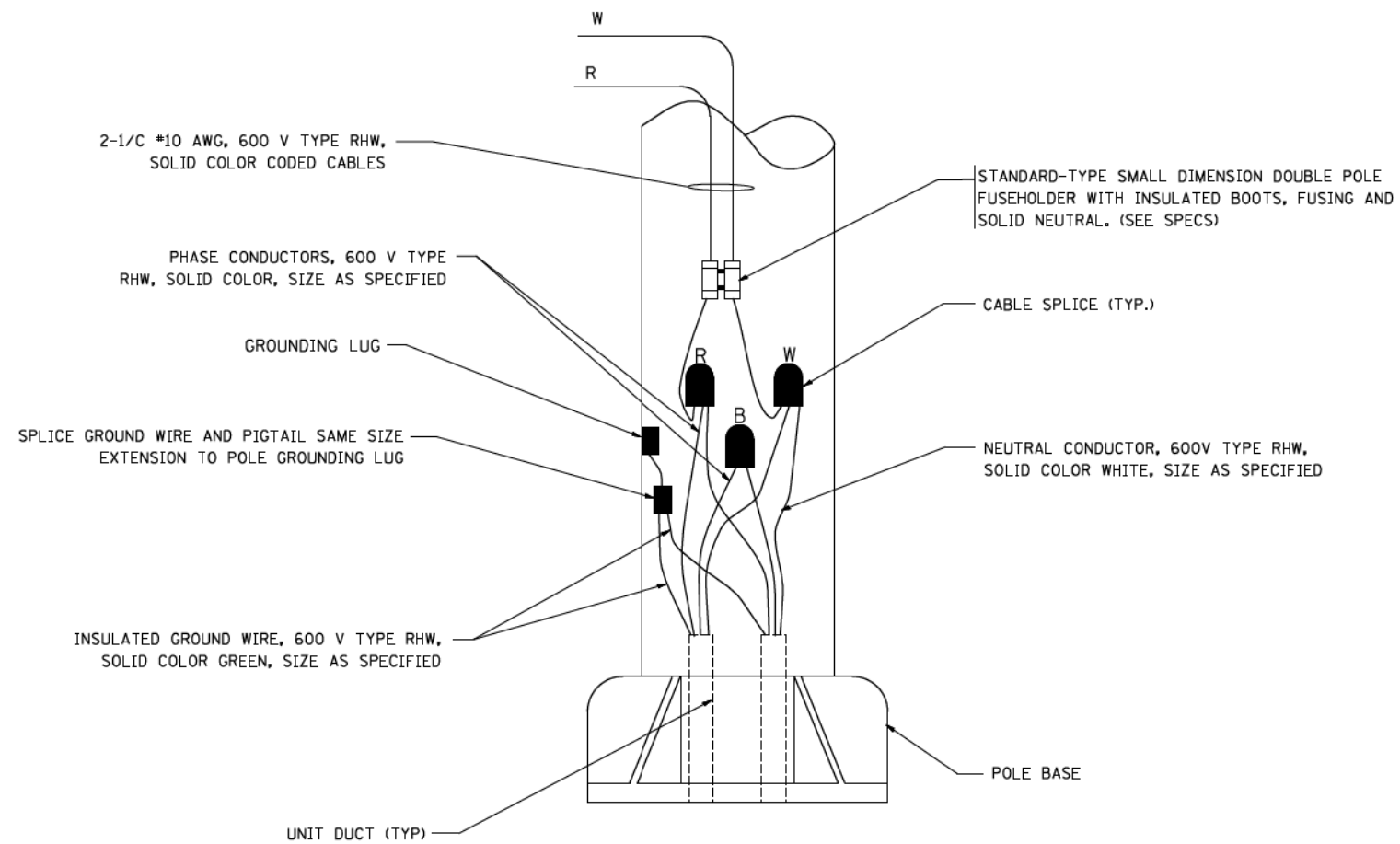
- NOTES:**
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
 2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
 3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
 4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

FILE NAME = W:\diststd\22x34\be701.dgn	USER NAME = geglano	DESIGNED -	REVISED - 08-08-03	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	LUMINAIRE SAFETY CABLE ASSEMBLY			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 50.000' / IN.	DRAWN -	REVISED -								442	373
	PLOT DATE = 1/4/2008	CHECKED -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	BE-701		CONTRACT NO. 60X99	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



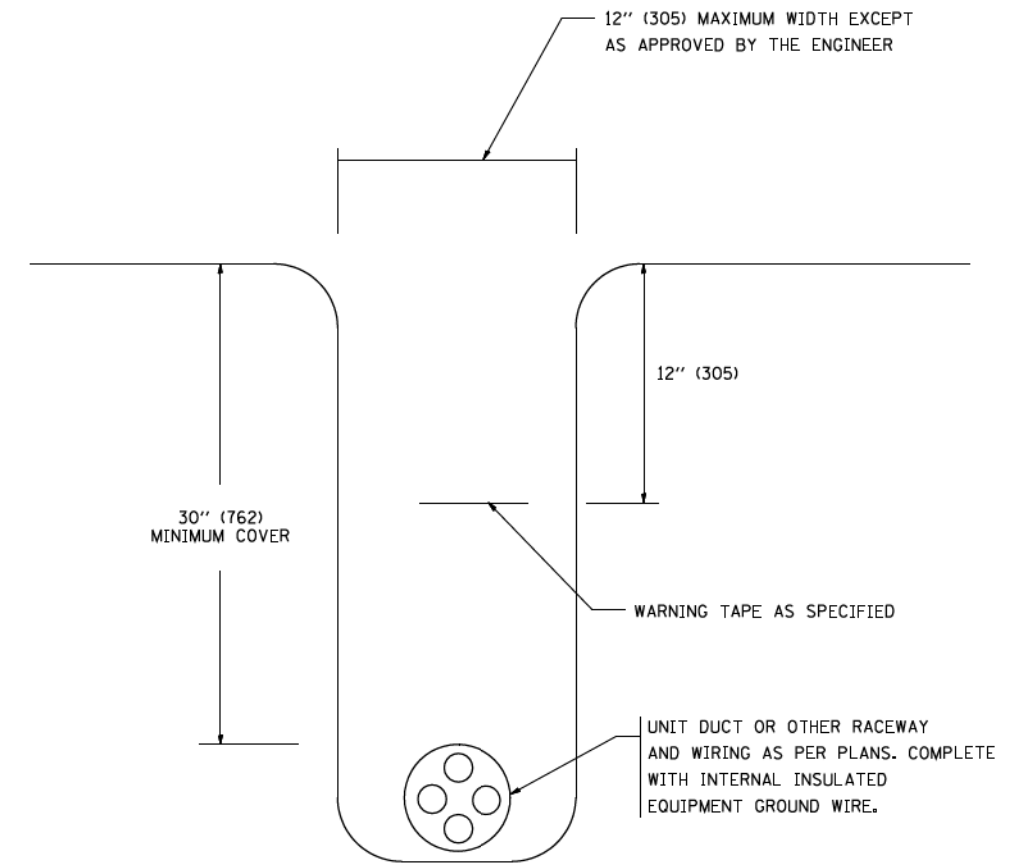
TYPICAL SPLICE DETAIL

N.T.S.



POLE WIRING DETAIL

N.T.S.



TYPICAL WIRING IN TRENCH DETAIL

N.T.S.

FILE NAME =
W:\diststd\22x34\be782.dgn

USER NAME = geglanoht
DESIGNED -
DRAWN -
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

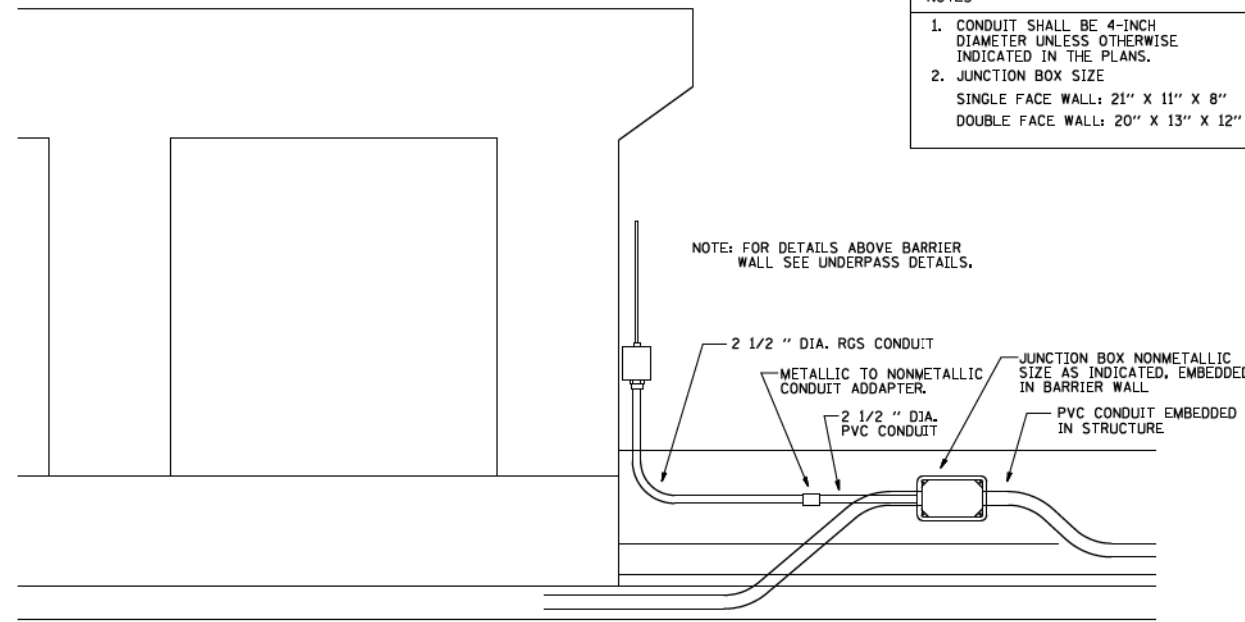
REVISED - 08-08-03
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MISC. ELECTRICAL DETAILS
SHEET A**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

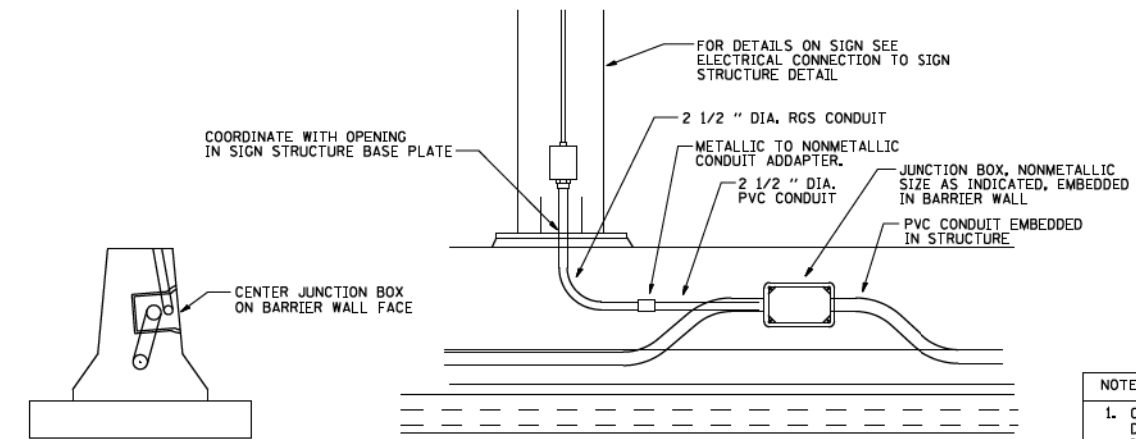
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			442	374
BE-702		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

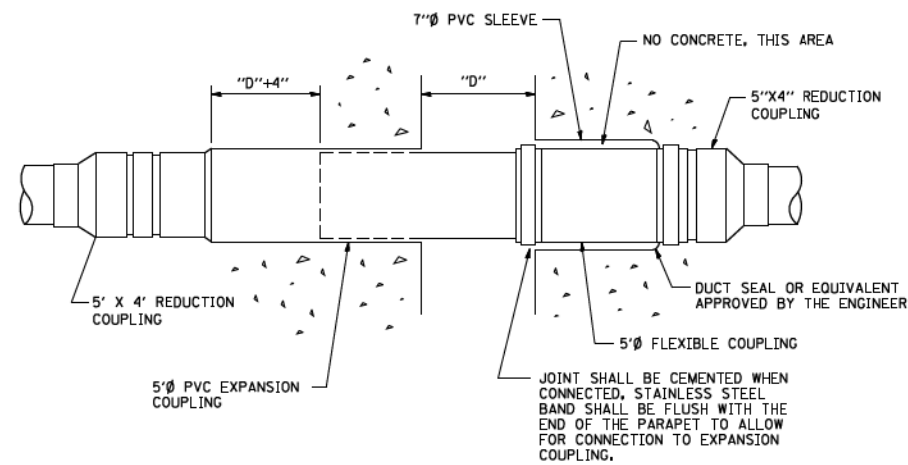
NOTE: FOR DETAILS ABOVE BARRIER WALL SEE UNDERPASS DETAILS.

ED - BWD
ELECTRIC CONNECTION TO UNDERPASS LIGHTING

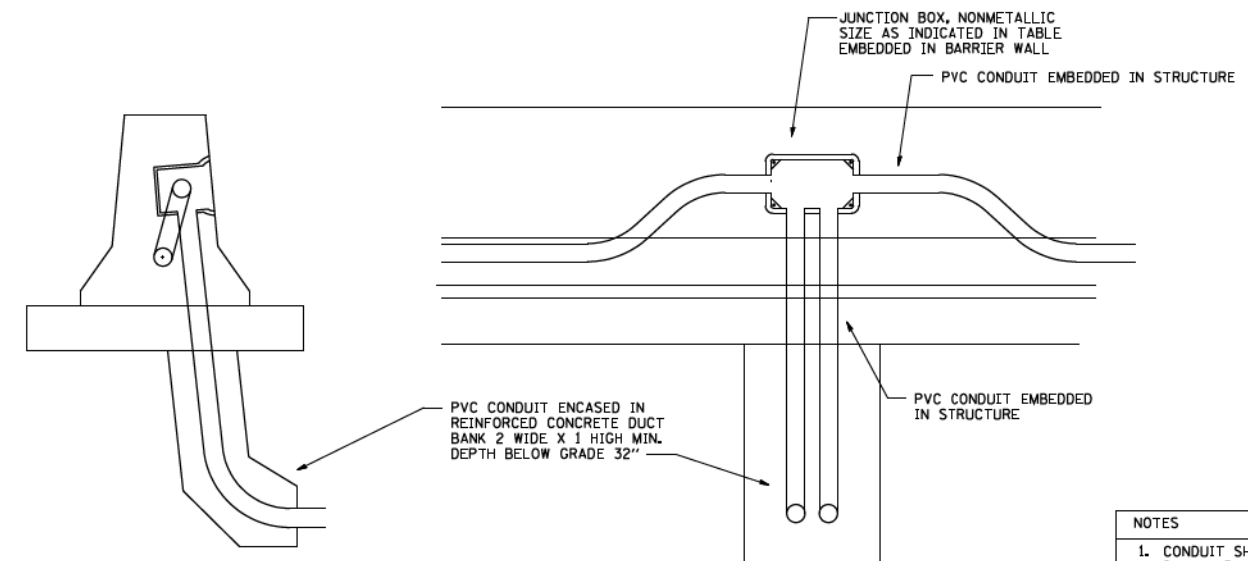


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - SGN
JUNCTION BOX EMBEDDED IN BARRIER WALL FOR SIGN LIGHTING

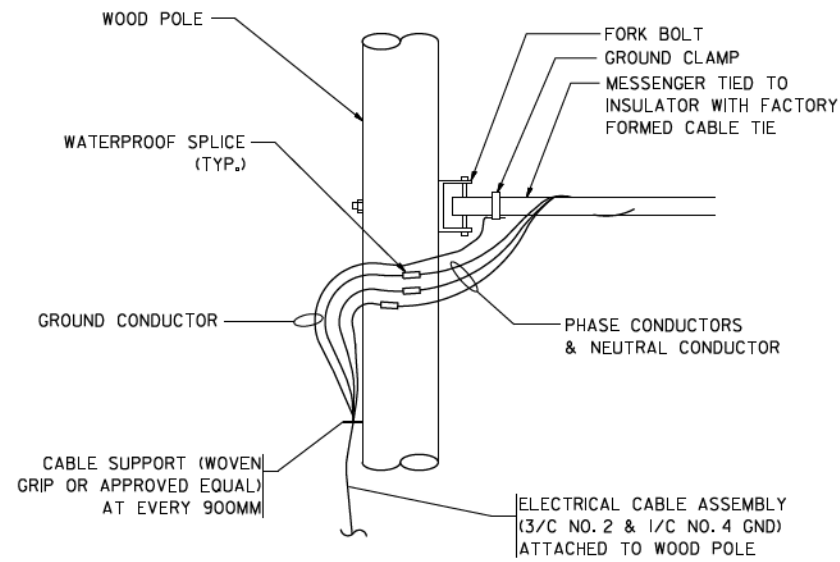


INSTALLATION OF CONDUIT
IN BRIDGE PARAPET EXPANSION JOINT
(N.T.S.)

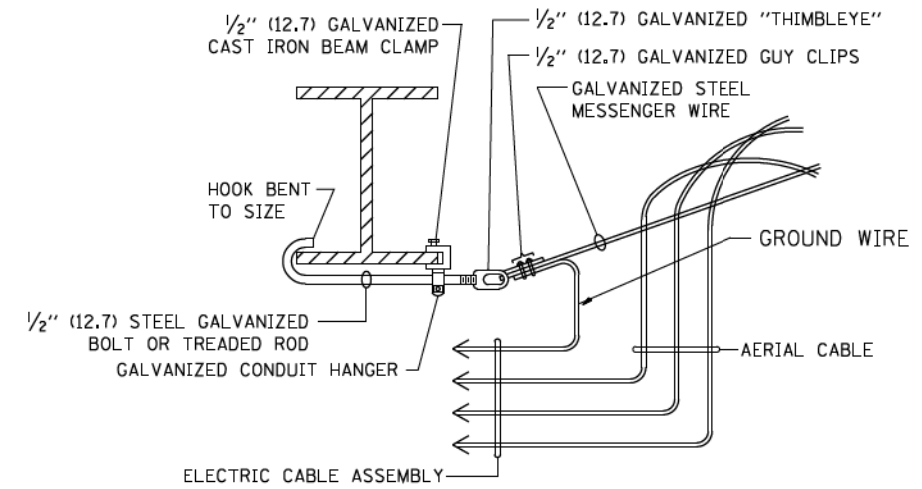


- NOTES
1. CONDUIT SHALL BE 4-INCH DIAMETER UNLESS OTHERWISE INDICATED IN THE PLANS.
 2. JUNCTION BOX SIZE
SINGLE FACE WALL: 21" X 11" X 8"
DOUBLE FACE WALL: 20" X 13" X 12"

ED - BW
JUNCTION BOX EMBEDDED IN BARRIER WALL



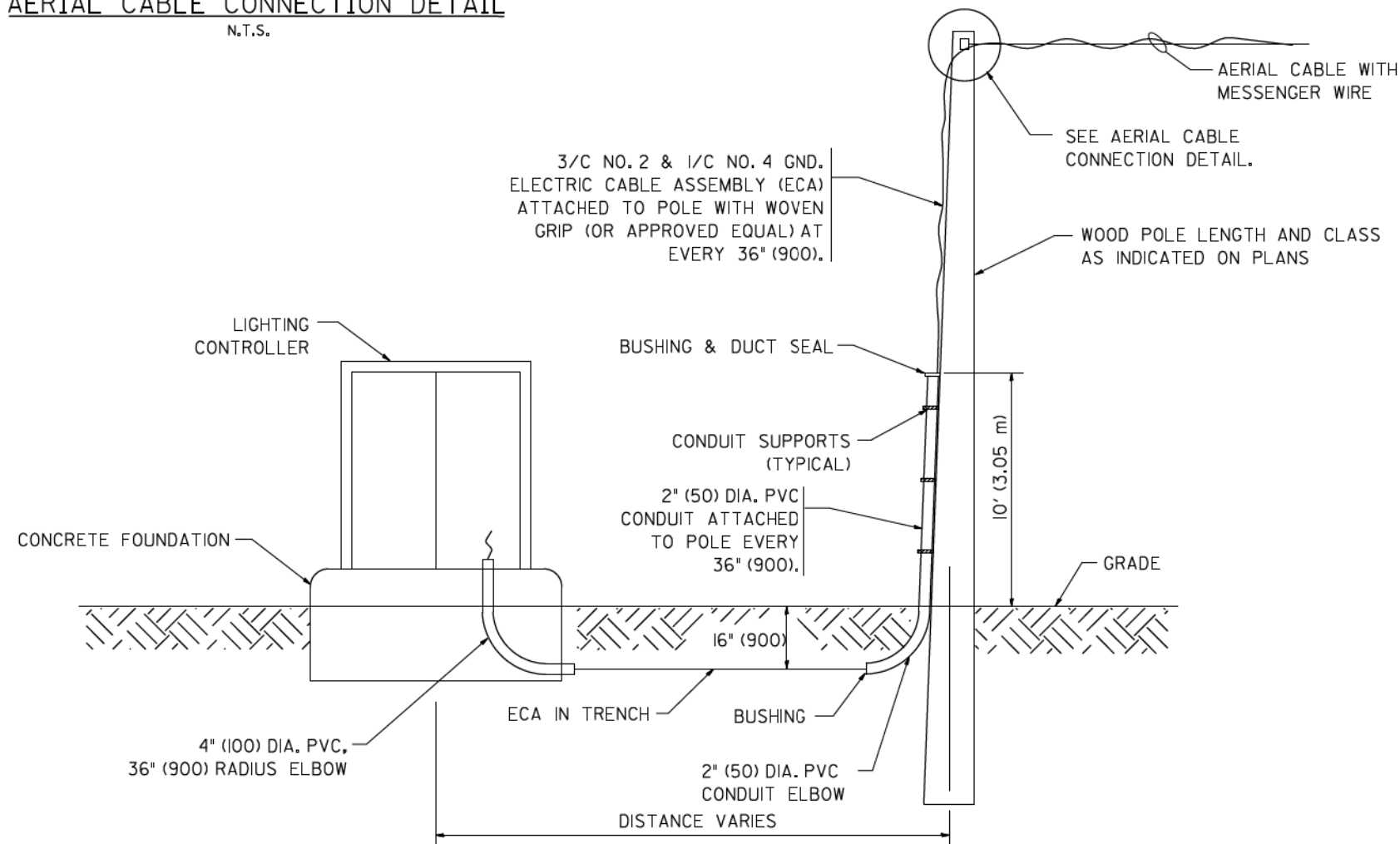
AERIAL CABLE CONNECTION DETAIL
N.T.S.



**AERIAL CABLE
ATTACHED TO STRUCTURE**
NOT TO SCALE

NOTES:

1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
2. SEE PROPOSED LIGHTING PLAN FOR CONDUIT, CABLE AND ROUTING.
3. THE CONTRACTOR SHALL PROVIDE INTERMEDIATE SUPPORTS TO MAINTAIN MINIMUM CLEARANCES. REFER TO AERIAL CABLE ATTACHED TO STRUCTURE DETAIL.
4. COST OF SPLICES AND MOUNTING HARDWARE SHALL BE INCLUDED IN THE UNIT PRICE FOR AERIAL CABLE.



**WOOD POLE TO LIGHTING CONTROLLER
WIRING CONNECTION DETAIL**
N.T.S.

FILE NAME =
W:\diststd\22x34\be901.dgn

USER NAME = geglanoht
PLOT SCALE = 50.000' / IN.
PLOT DATE = 1/4/2008

DESIGNED -
DRAWN -
CHECKED -
DATE -

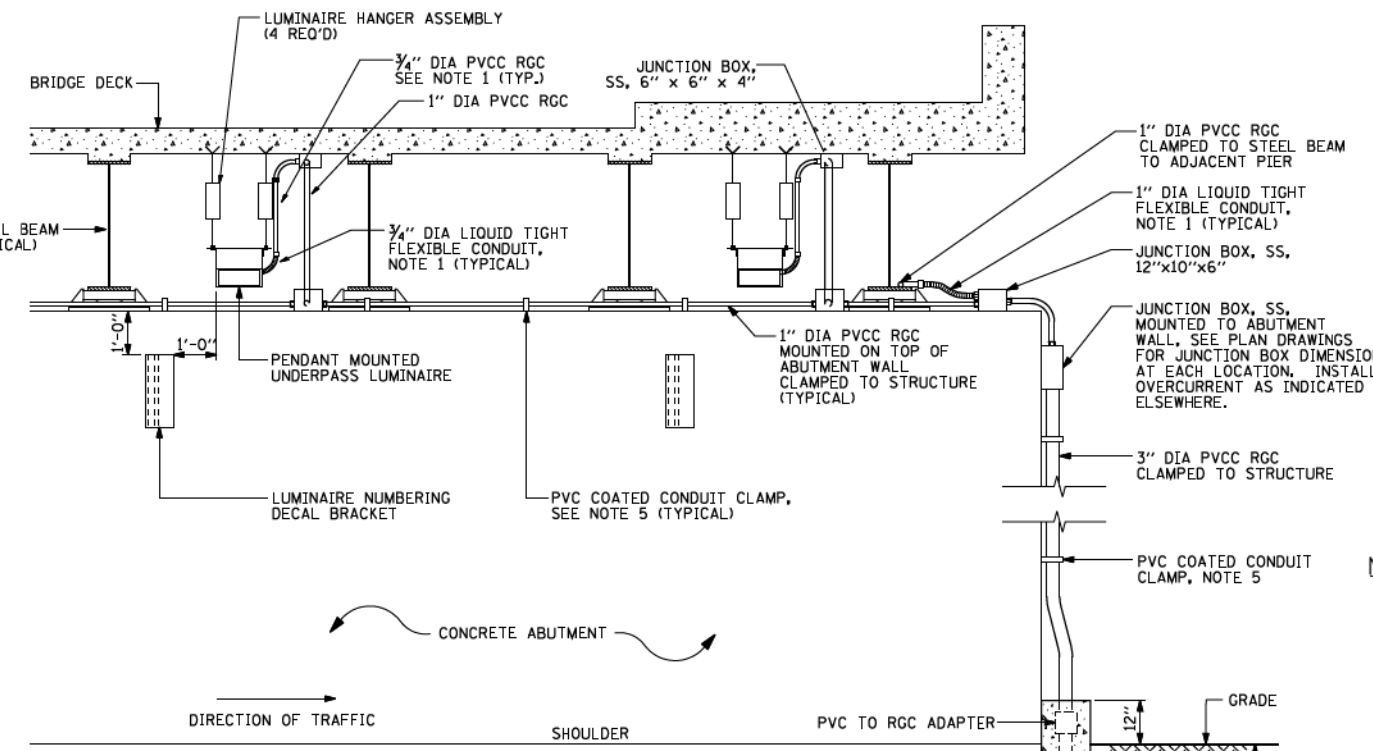
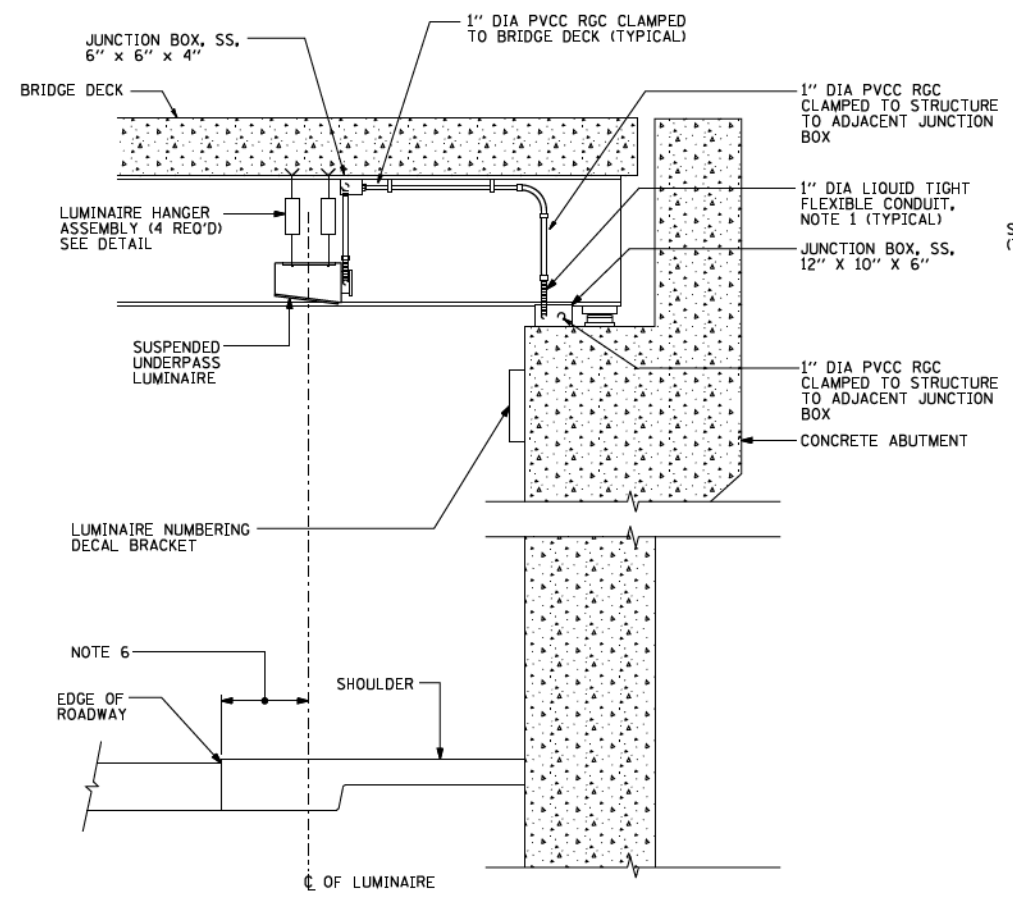
REVISED - 08-08-03
REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

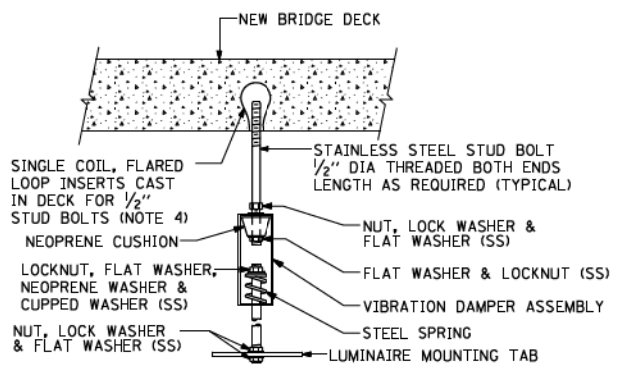
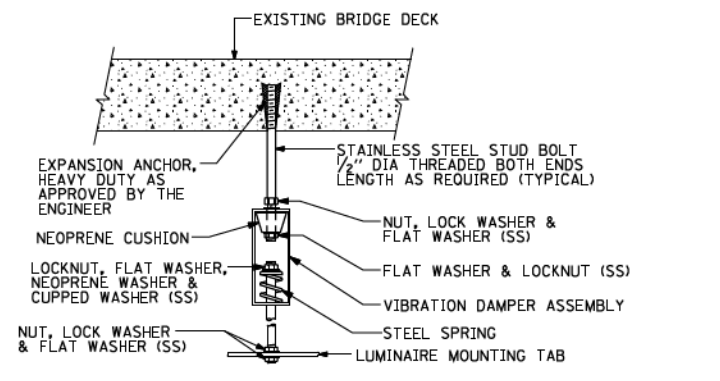
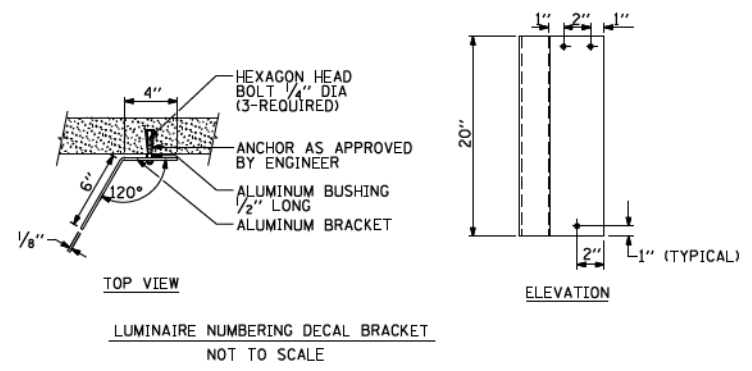
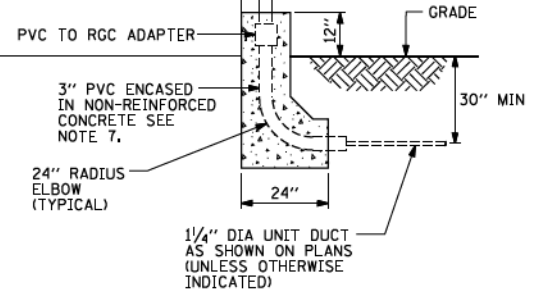
TEMPORARY AERIAL CABLE INSTALLATION

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	376
BE-801		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



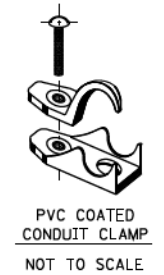
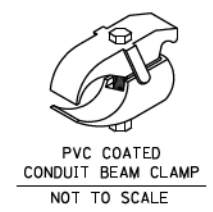
- NOTES:**
- LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN. PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT 3/4" DIA. CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE COST OF UNDERPASS LUMINAIRE INSTALLATION.
 - SEE UNDERPASS LIGHTING PLANS FOR INSTALLATION LOCATION OF UNDERPASS LIGHTING LUMINAIRES.
 - THE CONTRACTOR SHALL USE APPROVED SINGLE COIL FLARED LOOP INSERTS WHEN SUSPENDED MOUNTING AN UNDERPASS LUMINAIRE TO A NEW BRIDGE DECK. THE FLARED LOOP INSERTS MUST BE CAST INTO THE CONCRETE DECK. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND COORDINATING THE INSERT LOCATIONS FOR MOUNTING THE UNDERPASS LIGHTING SYSTEM AS SHOWN ON THE PLANS WITH THE BRIDGE DECK CONTRACTOR. SEE DETAIL.
 - THE UNDERPASS LUMINAIRE HANGER ASSEMBLY COMPLETE WITH HEAVY DUTY ANCHORS/INSERTS AND ALL APPLICABLE HARDWARE SHALL BE INCLUDED IN THE COST OF THE UNDERPASS LUMINAIRE PAY ITEM.
 - SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
 - ALL UNDERPASS LUMINAIRES MUST BE CENTERED IN THE BEAM SPACE AS INDICATED ON THE PLANS UNLESS OTHERWISE DIRECTED BY THE ENGR. LUMINAIRE SETBACK SHALL BE AS INDICATED IN PLANS FOR EACH SPECIFIC UNDERPASS.
 - THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
 - ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.



EXISTING BRIDGE DECK INSTALLATION

NEW BRIDGE DECK INSTALLATION

TYPICAL LUMINAIRE HANGER ASSEMBLY DETAILS



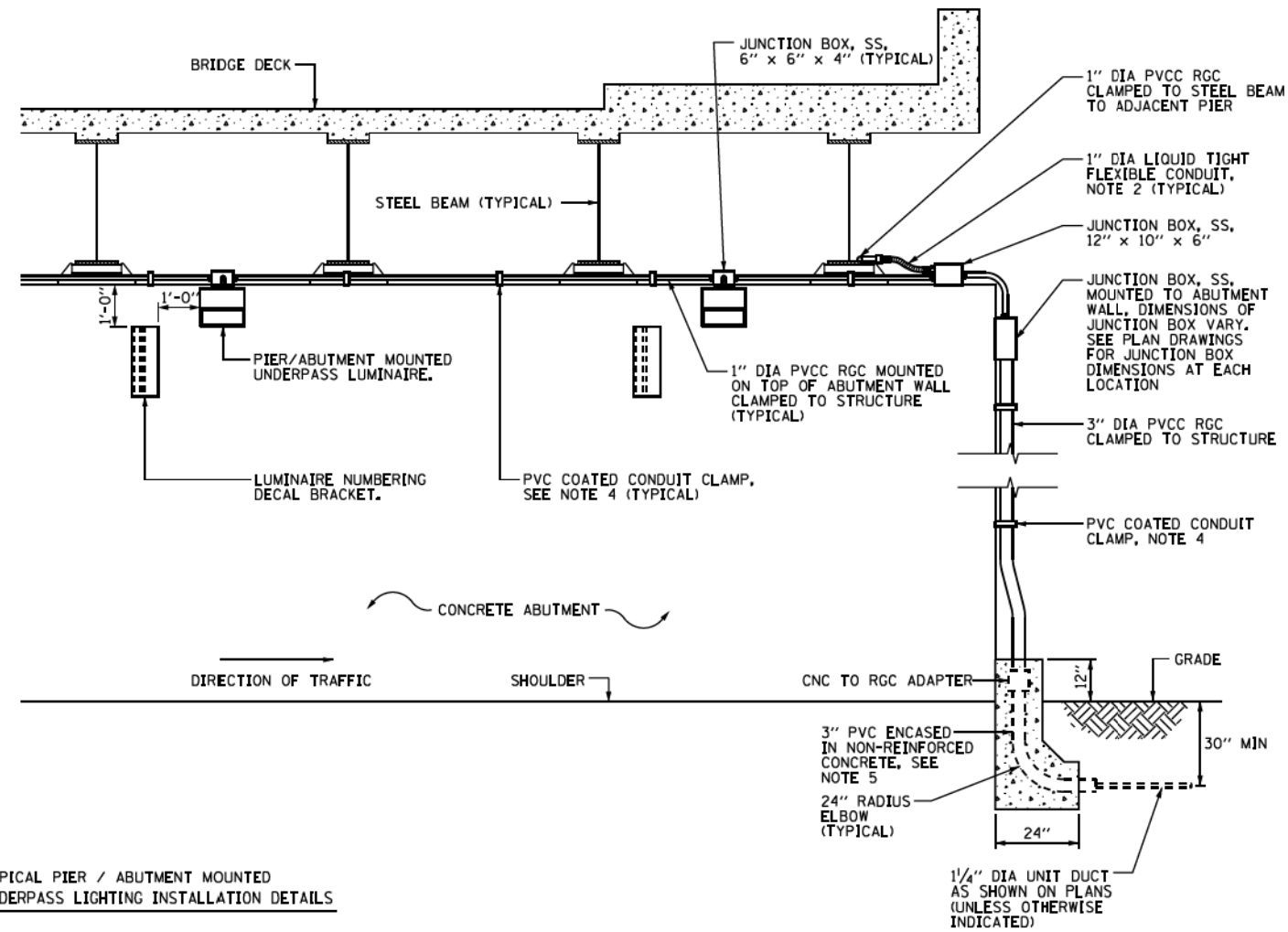
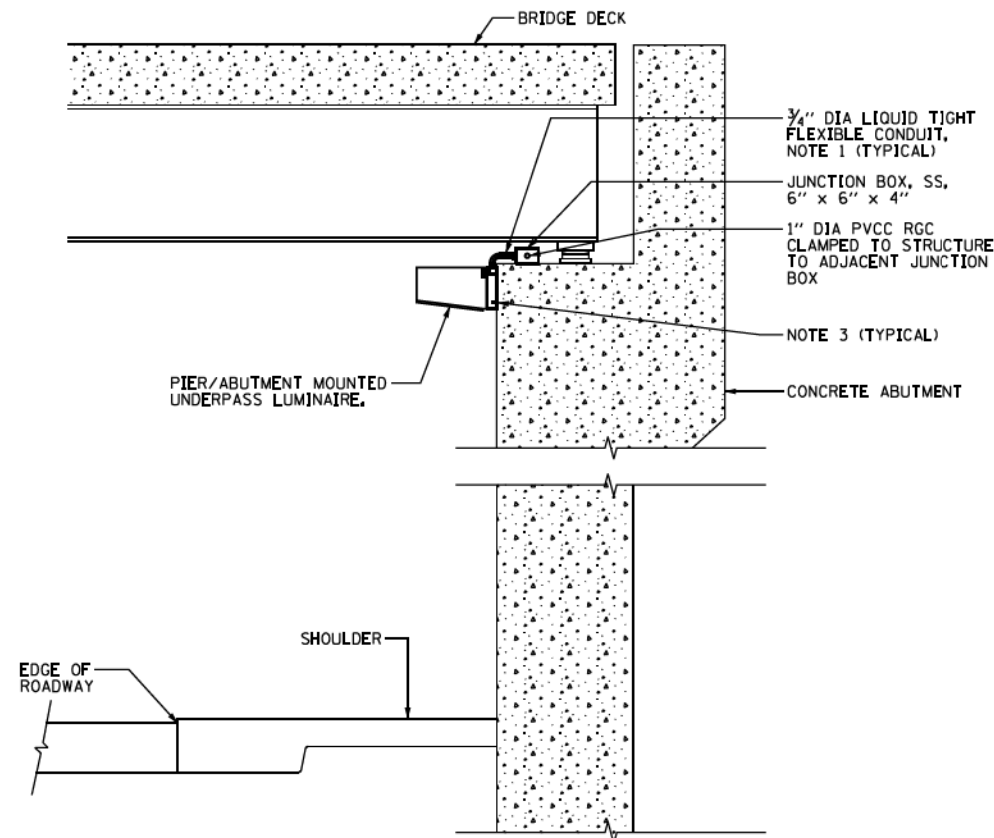
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		DRAWN -	REVISED -
		CHECKED -	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

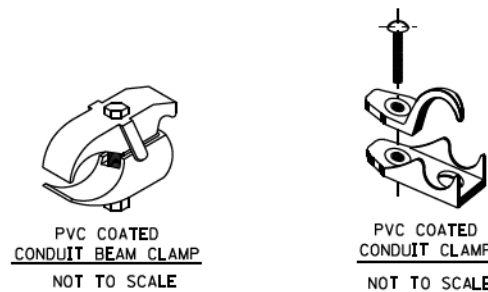
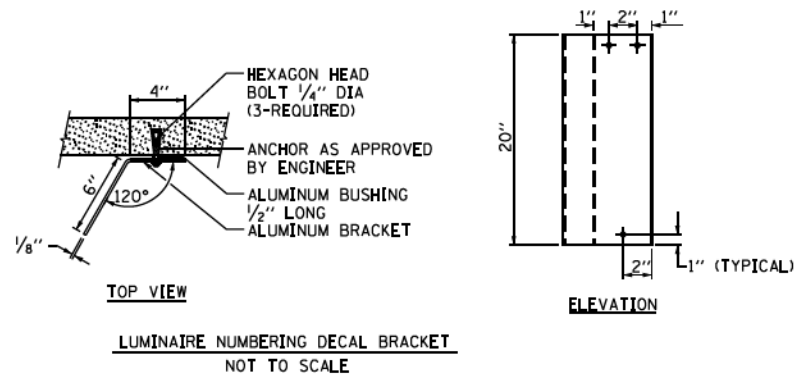
**SUSPENDED MOUNT UNDERPASS
LUMINAIRE INSTALLATION DETAILS**

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	377
BE-900		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



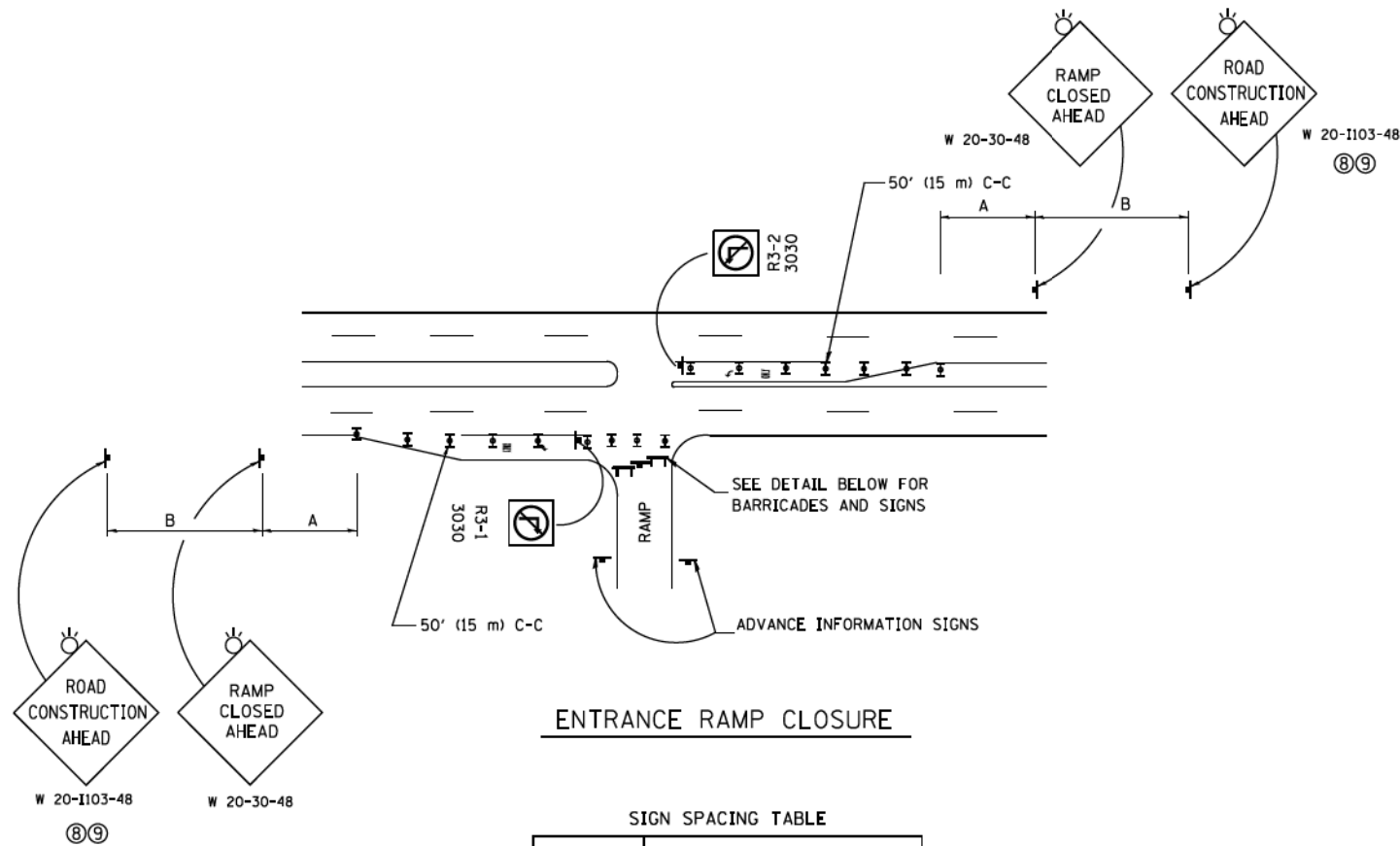
TYPICAL PIER / ABUTMENT MOUNTED UNDERPASS LIGHTING INSTALLATION DETAILS



NOTES:

1. LIQUID TIGHT FLEXIBLE METAL CONDUIT, MAXIMUM LENGTH 6'-0", TYPICAL FOR EACH INSTANCE AS SHOWN, PROVIDE PVC COATED RIGID GALVANIZED STEEL CONDUIT AS REQUIRED NOT TO EXCEED 6'-0" OF FLEXIBLE LIQUID TIGHT METAL CONDUIT. LIQUID TIGHT FLEXIBLE METAL CONDUIT WILL BE INCLUDED IN THE COST OF THE CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED PAY ITEM EXCEPT THAT THE COST OF THE 3/4" DIA. RIGID STEEL CONDUIT AND 3/4" DIA. FLEXIBLE CONDUIT SHALL BE INCLUDED IN THE LUMINAIRE INSTALLATION.
2. UNDERPASS LUMINAIRE MOUNTED TO FACE OF PIER OR ABUTMENT WALL, MOUNTING HEIGHT OF 1" BELOW THE TOP OF PIER OR ABUTMENT WALL TYPICAL FOR ALL PIER/ABUTMENT MOUNTED UNDERPASS LUMINAIRES UNLESS OTHERWISE NOTED.
3. EXPANSION ANCHOR, POWDER ACTUATED FASTENERS WILL NOT BE ALLOWED. EXPANSION ANCHOR MUST BE SIZED IN ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
4. SECURE THE CONDUIT WITH PVC COATED CONDUIT CLAMPS OR CONDUIT BEAM CLAMPS AS SHOWN AT 5'-0" INTERVALS FOR LATERALS AND WITHIN 2'-0" MAXIMUM FROM ANY JUNCTION BOX, FLEXIBLE CONDUIT, OR CHANGE IN DIRECTION. ALL PVC COATED CONDUIT CLAMPS OR BEAM CLAMPS SHALL BE INCLUDED WITH THE COST OF THE "CONDUIT ATTACHED TO STRUCTURE, OF THE CORRESPONDING DIA., GALVANIZED STEEL, PVC COATED" PAY ITEM.
5. THE CONCRETE ENCASED CONDUIT TRANSITION SHALL BE INCLUDED IN THE COST OF THE GALVANIZED RIGID STEEL CONDUIT PAY ITEMS.
6. ALL CONDUIT ATTACHED TO STRUCTURE SHALL BE PVC COATED RIGID STEEL CONDUIT (PVCC RGC) TYPICAL.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 01-25-05	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PIER / ABUTMENT MOUNTED UNDERPASS LUMINAIRE INSTALLATION DETAILS		F.A. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw\l\884680\INTEG\Illinois.gov\FWIDOT\Documents\DOT Offices\District 1\Projects\Dist 1\BRAM\CADData\CADsheets\be982.dgn		CHECKED -	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS	STA. TO STA.	BE-902			442	378
Default	PLOT DATE = 11/17/2015	DATE -	REVISED -							CONTRACT NO.	60X99	

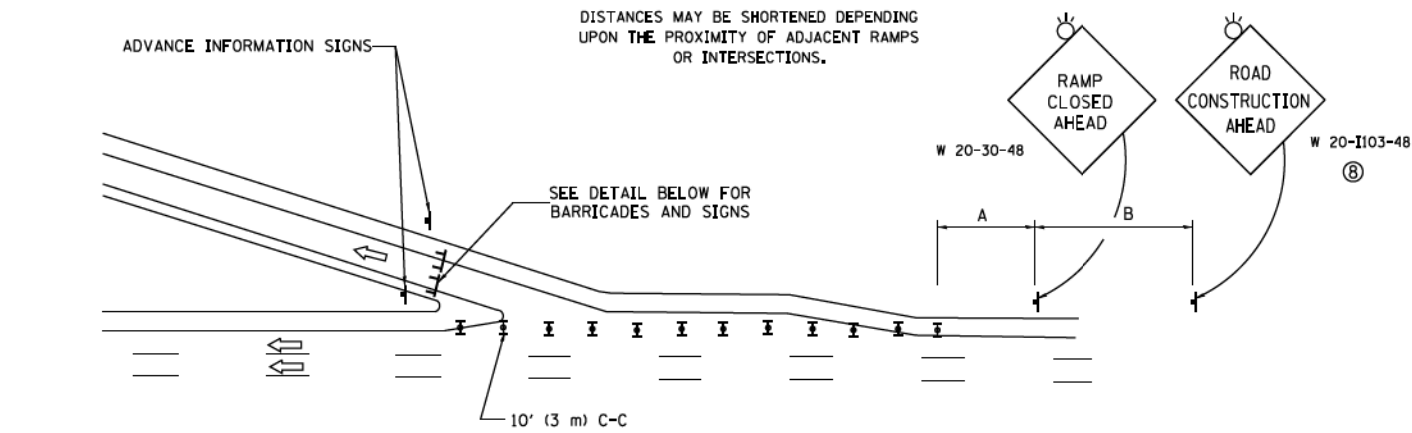


ENTRANCE RAMP CLOSURE

SIGN SPACING TABLE

FACILITY	DISTANCE BETWEEN SIGNS	
	A	B
EXPRESSWAY >24 HOURS	1000' (300 m)	1500' (450 m)
EXPRESSWAY ≤24 HOURS	500' (150 m)	500' (150 m)
ARTERIAL 55 MPH	500' (150 m)	500' (150 m)
ARTERIAL 50-45 MPH	350' (100 m)	350' (100 m)
ARTERIAL <45 MPH	200' (60 m)	200' (60 m)

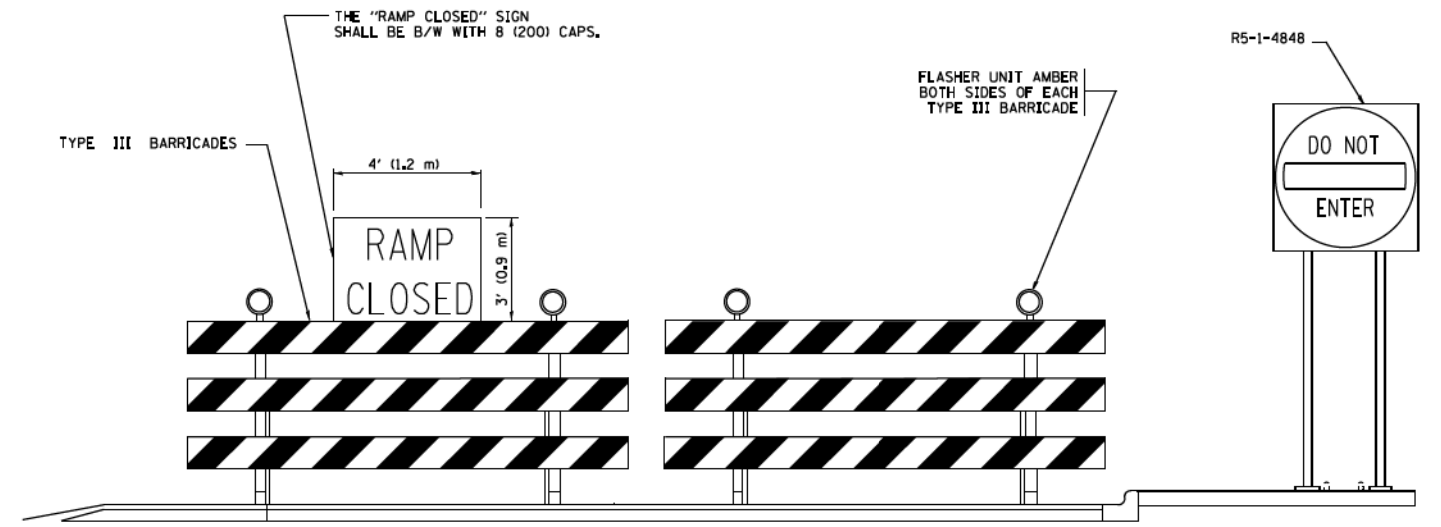
DISTANCES MAY BE SHORTENED DEPENDING UPON THE PROXIMITY OF ADJACENT RAMPS OR INTERSECTIONS.



EXIT RAMP CLOSURE

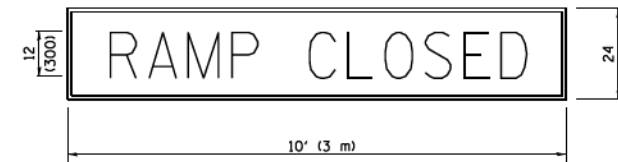
SYMBOLS

- ▬ TYPE II BARRICADE OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- ▬ TYPE III BARRICADE WITH 2 FLASHING LIGHTS



DETAIL FOR REQUIRED BARRICADES & SIGNS

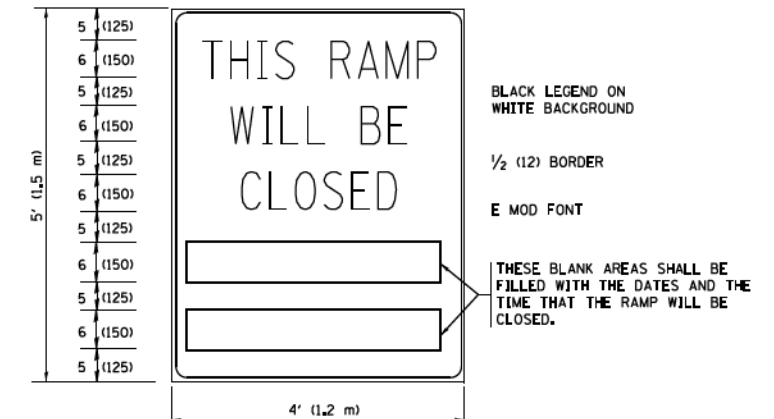
RAMP CLOSURE ADVANCE WARNING SIGN



BLACK LEGEND ON ORANGE BACKGROUND MOUNTED DIAGONALLY
E MOD FONT
1 (25) BORDER

THESE SIGNS ARE REQUIRED ON ALL THE EXIT GUIDE SIGNS FOR EXIT RAMPS THAT WILL BE CLOSED FOR MORE THAN FOUR (4) CONSECUTIVE DAYS.

RAMP CLOSURE ADVANCE INFORMATION SIGN



BLACK LEGEND ON WHITE BACKGROUND

1/2 (12) BORDER

E MOD FONT

THESE BLANK AREAS SHALL BE FILLED WITH THE DATES AND THE TIME THAT THE RAMP WILL BE CLOSED.

THESE SIGNS ARE REQUIRED ON BOTH SIDES OF THE RAMP, MINIMUM OF 1 WEEK IN ADVANCE OF THE CLOSURE.

THESE SIGNS SHALL BE FABRICATED AND PAID FOR ACCORDING TO THE TEMPORARY INFORMATION SIGNING SPECIAL PROVISION

GENERAL NOTES:

- ① CONES MAY BE SUBSTITUTED FOR DRUMS OR TYPE II BARRICADES DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (700) HIGH.
- ② STEADY BURN LIGHTS WILL NOT BE REQUIRED FOR DAY OPERATIONS.
- ③ A FLAGGER SHALL BE POSITIONED AT EACH CLOSED RAMP THAT IS OPEN TO CONSTRUCTION VEHICLES, PRECEDED BY A W20-7 FLAGGER WARNING SIGN.
- ④ ALL ROUTE MARKERS AND TRAILBLAZER ASSEMBLIES WHICH DIRECT MOTORISTS TO A CLOSED ENTRANCE RAMP SHALL BE COVERED WHEN THE RAMP IS CLOSED FOR MORE THAN FOUR (4) DAYS.
- ⑤ THE SIGNING AND BARRICADING WHICH IS REQUIRED BY THIS DETAIL SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (EXPRESSWAYS).
- ⑥ AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL RAMP CLOSURES.
- ⑦ 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 FOUR (4) DAYS IN LENGTH.
- ⑧ ROAD CONSTRUCTION AHEAD SIGNS MAY BE OMITTED WHEN THIS DETAIL IS USED IN CONJUNCTION WITH OTHER TRAFFIC CONTROL THAT ALREADY INCLUDES A ROAD CONSTRUCTION AHEAD SIGN.
- ⑨ ARTERIAL ROAD CONSTRUCTION AHEAD SIGNS SHALL BE INSTALLED ON THE LEFT SIDE OF TRAFFIC IF THE MEDIAN IS MORE THAN 10 FT WIDE.

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

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06
ca:\pwork\pwork\dot\footemj\d0108315\to08.dgn		DRAWN -	REVISED - SPB 01-07
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	PLOT DATE = 7/8/2013	DATE - 02-83	REVISED - MD 06-13

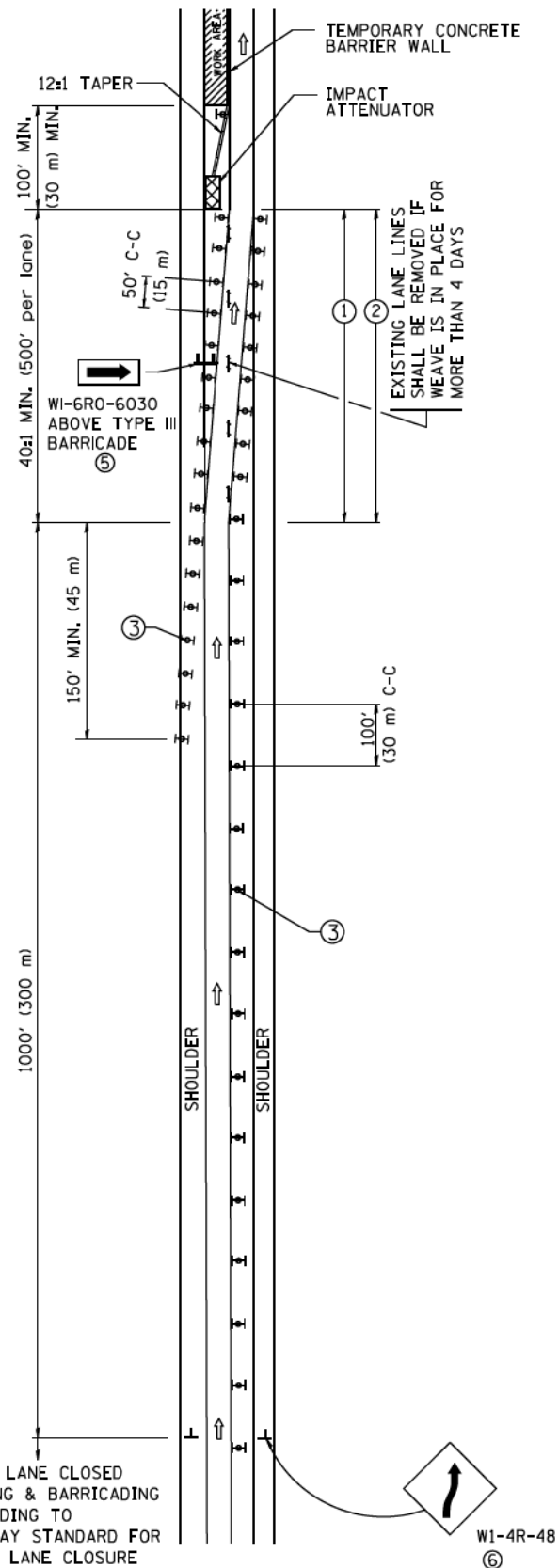
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ENTRANCE AND EXIT RAMP
CLOSURE DETAILS**

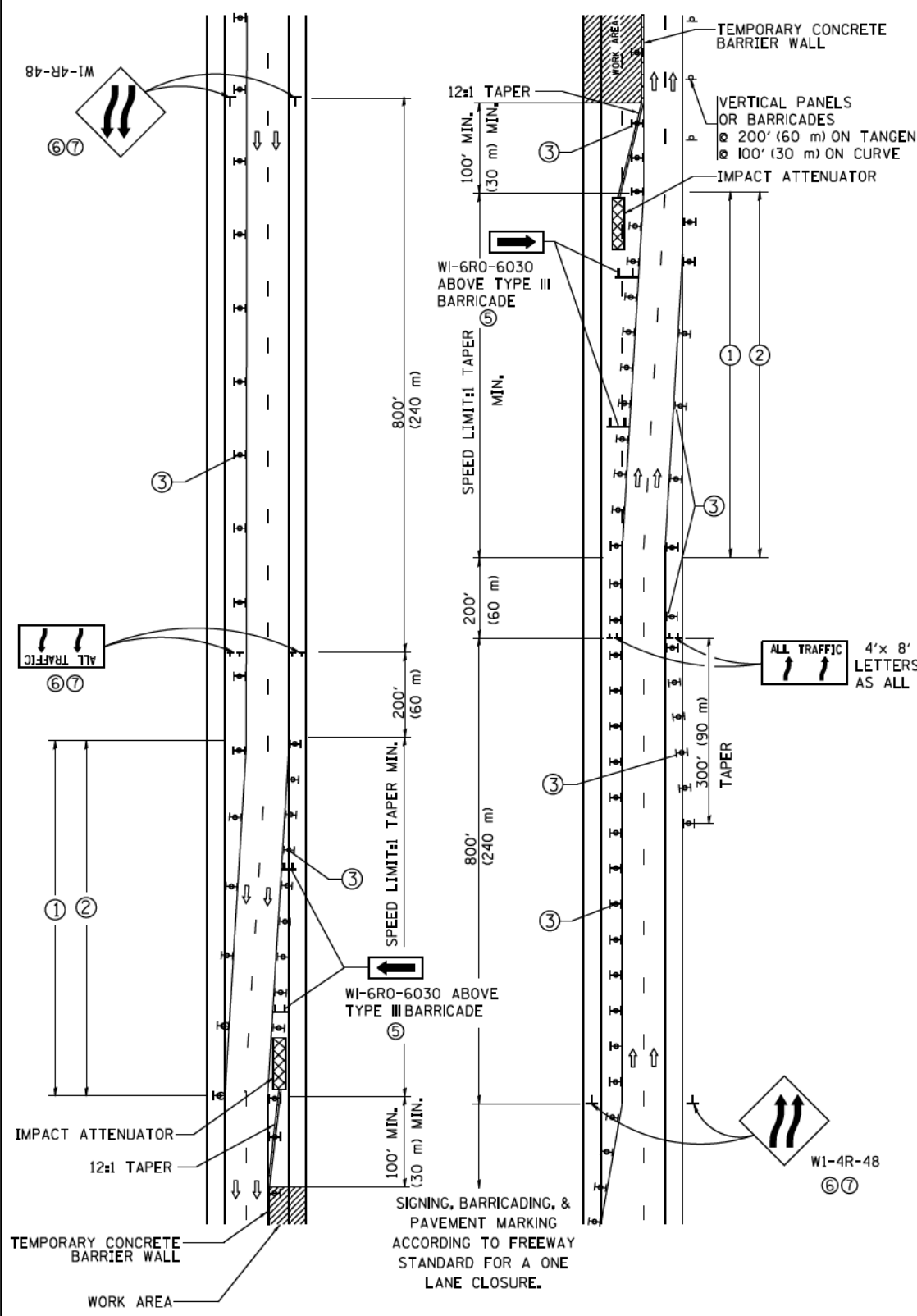
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-08	COOK	442	379
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	

SINGLE LANE WEAVE



MULTI-LANE WEAVE



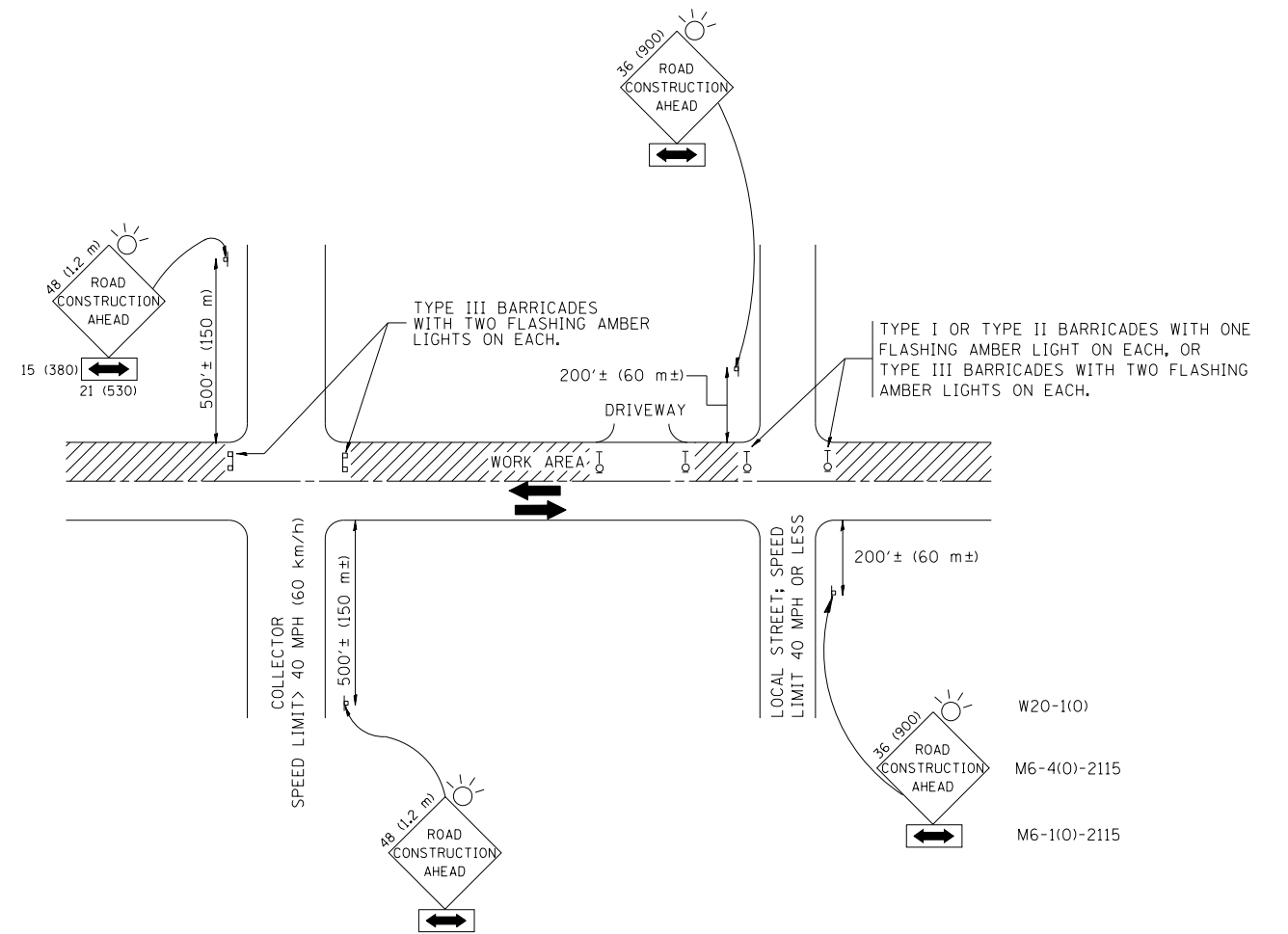
- ### GENERAL NOTES
- EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.
 - CONTINUOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.
 - PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.
 - ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
 - TYPE III BARRICADES MAY BE OMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE ELIMINATED IN THE TAPER AREAS.
 - WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE THE SAME SHAPE.
 - THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL STEADY BURNING LIGHT
- TEMPORARY CONCRETE BARRIER WALL
- IMPACT ATTENUATOR
- W24-1-48

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED - DWS	REVISED - JAF 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREWAY SINGLE & MULTI-LANE WEAVE		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
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PLOT DATE = 7/1/2013	DATE - 02-87	REVISED - MD 06-13											
					SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		CONTRACT NO. 60X99		



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (inches) unless otherwise shown.

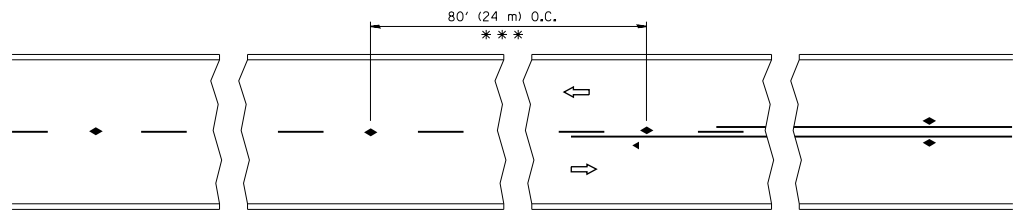
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		DRAWN -	REVISED - A. HOUSEH 03-06-96
	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED - A. HOUSEH 10-15-96
	PLOT DATE = 12/15/2016	DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
TC-10

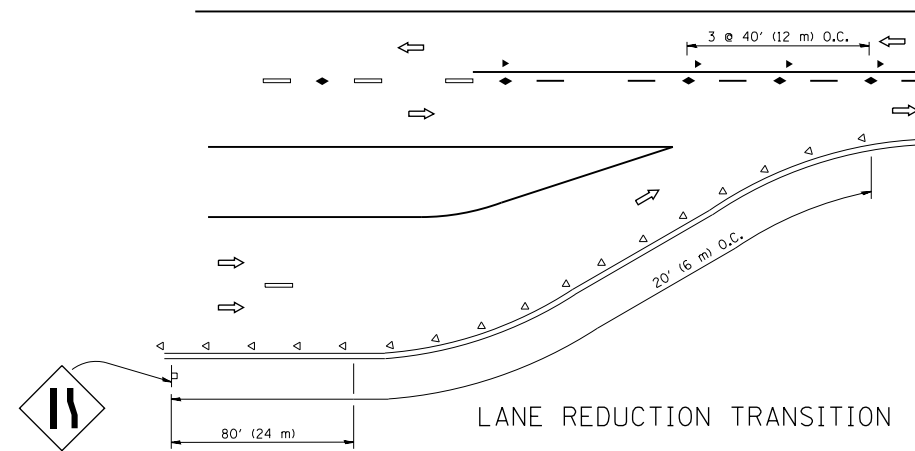
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
•	2013-011R	COOK	442	381
TC-10			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
• 90/94/290				

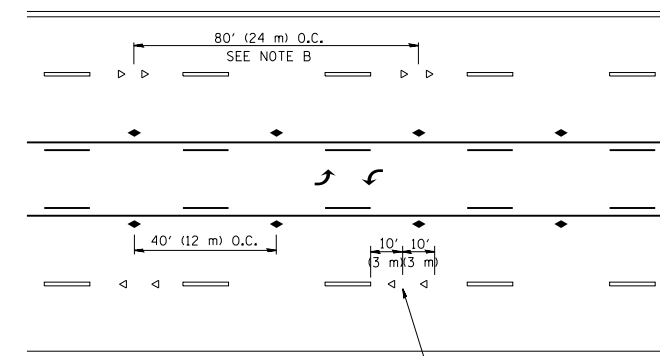


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

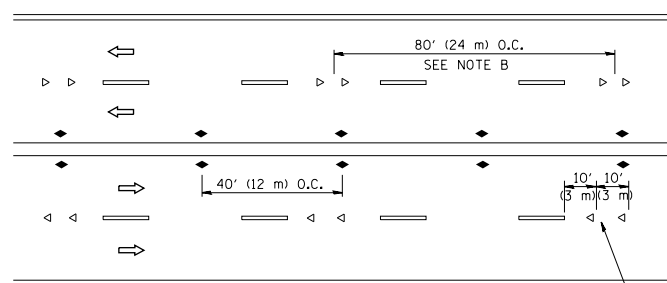
TWO-LANE/TWO-WAY



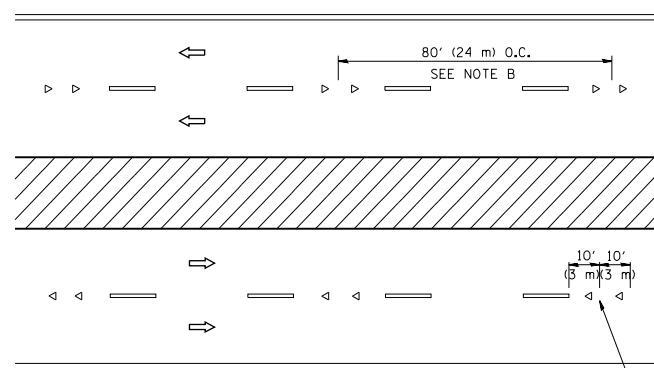
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

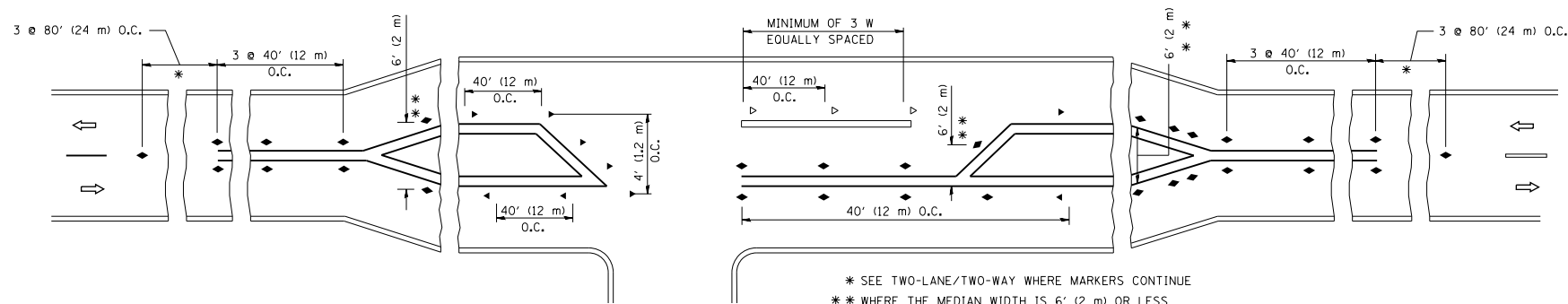
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

All dimensions are in inches (millimeters) unless otherwise shown.

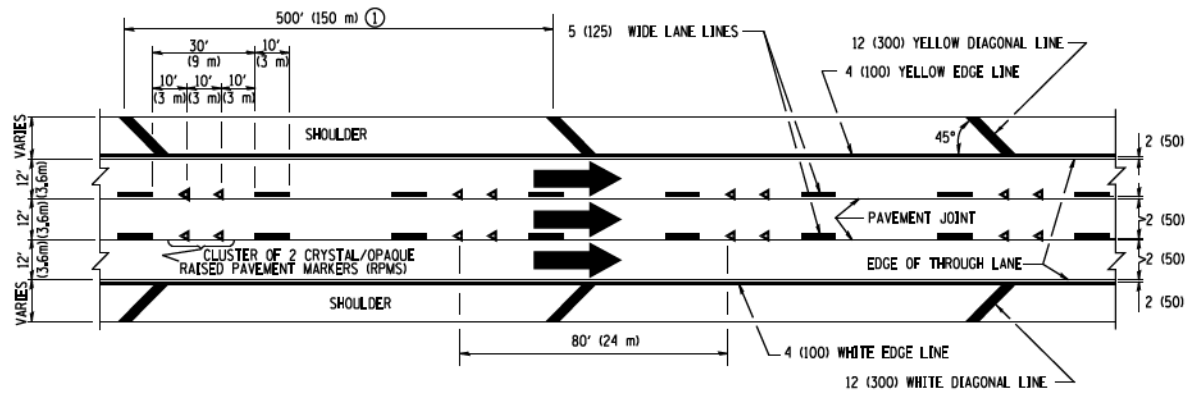
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	PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -T, RAMMACHER 01-06-00
	PLOT DATE = 12/15/2016	DATE -	REVISED -C, JUCIUS 09-09-09

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT 1 STANDARD DETAILS
 TC-11

SCALE: NONE SHEET NO. 21 OF 32 SHEETS STA. TO STA.

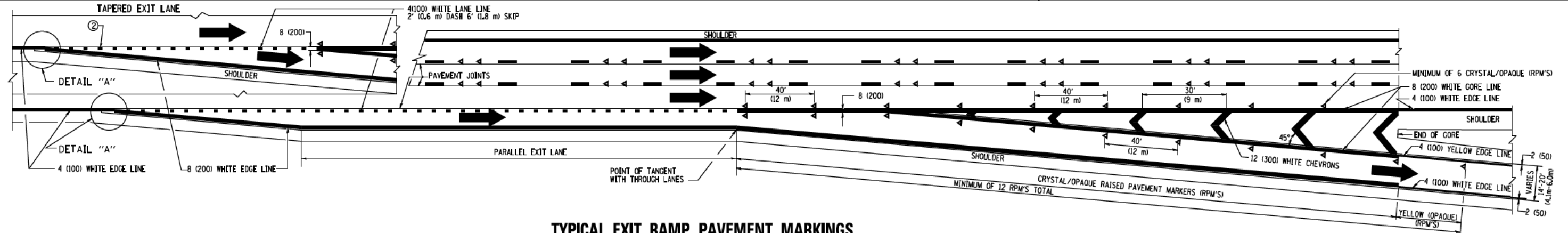
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	442	382
TC-11		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
90/94/290				



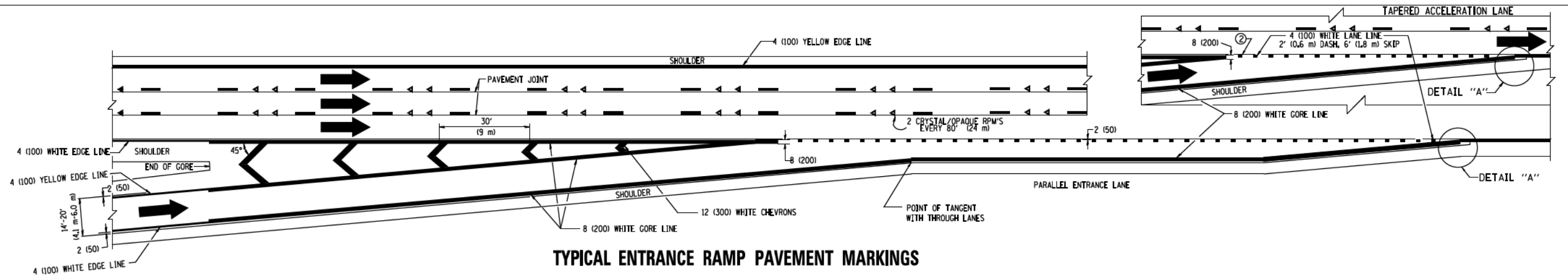
TYPICAL EDGE LINES & LANE LINES

PAVEMENT MARKING MATERIALS

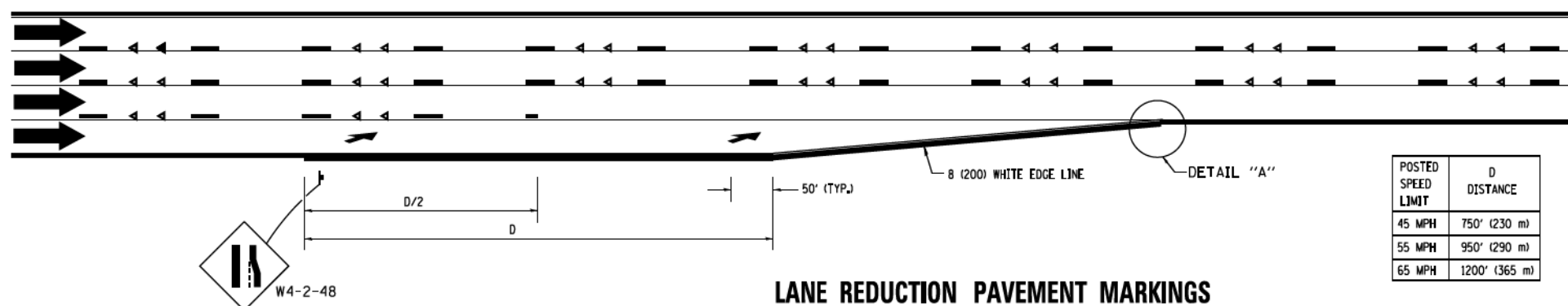
1. THERMO PLASTIC PAVEMENT MARKING LINE SHALL BE USED FOR THE EDGE LINES, GORE LINES, AND DIAGONAL LINES ON BITUMINOUS PAVEMENT ONLY.
2. PREFORMED PLASTIC TYPE B PAVEMENT MARKING LINE; INLaid OR GROOVED IN SHALL BE USED FOR ALL LANE LINES ON HMA PAVEMENT PROJECTS.
3. POLYUREA PAVEMENT MARKING SHALL BE USED FOR ALL MARKINGS ON PCC PROJECTS.



TYPICAL EXIT RAMP PAVEMENT MARKINGS

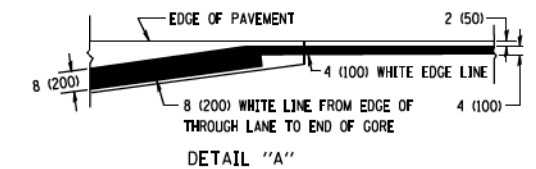


TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS



LANE REDUCTION PAVEMENT MARKINGS

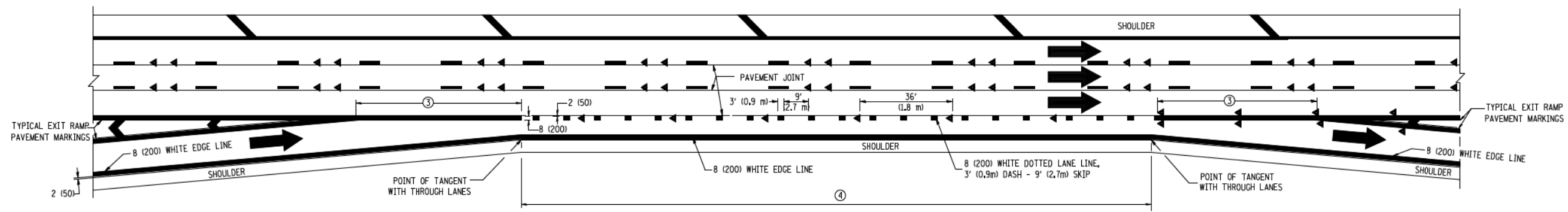
POSTED SPEED LIMIT	D DISTANCE
45 MPH	750' (230 m)
55 MPH	950' (290 m)
65 MPH	1200' (365 m)



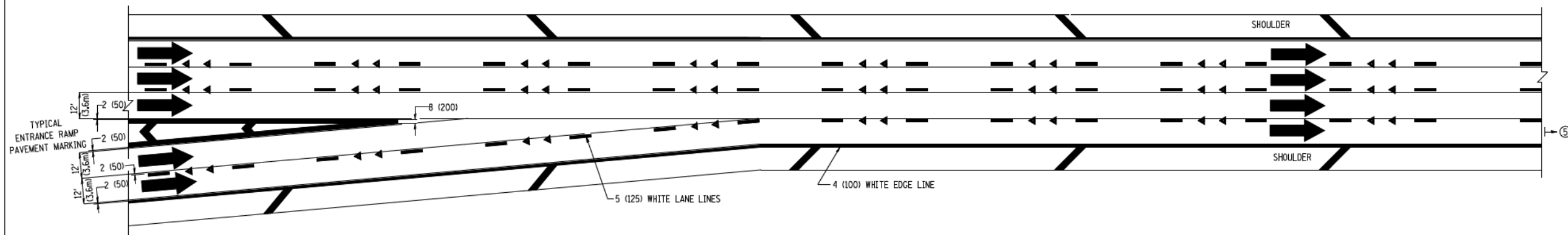
NOTES

- ① THE DIAGONAL LINES SHALL BE SPACED AT 40' (12 m) C-C ACROSS ALL STRUCTURES WHICH ARE 500' (150 m) OR LESS IN LENGTH. THE DIAGONAL LINES ARE NOT REQUIRED ON SHOULDERS WHICH ARE 6' (1.8 m) OR LESS IN WIDTH.
- ② 4" (2' DASH, 6' SKIP) MARKING ON TAPERED ENTRANCE AND EXIT RAMP SHALL BE OMITTED ON TANGENT SECTIONS.

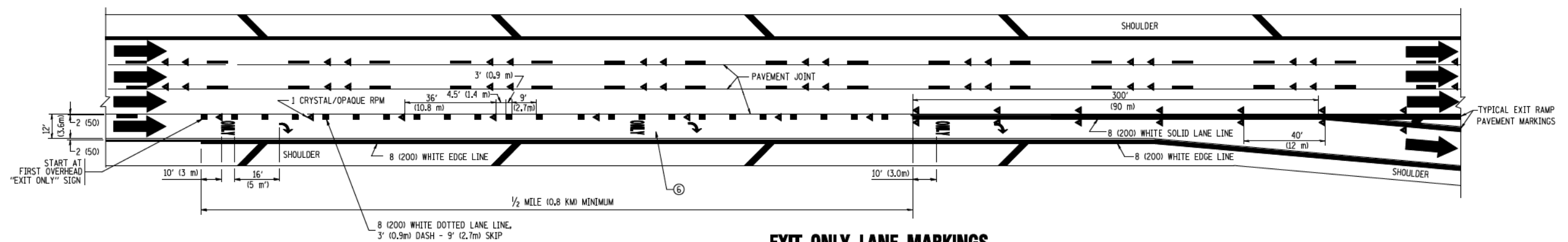
FILE NAME =	USER NAME = footemj	DESIGNED - D.W.S.	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
ca:\pwork\p\dot\footemj\d0108315\1012.dgn		DRAWN -	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	2013-011R	COOK	442	383
PLOT SCALE = 58.800' / in.		CHECKED -	REVISED - S.P.B. 01-10						TC-12	CONTRACT NO.	60X99	
PLOT DATE = 7/8/2013		DATE - 01-90	REVISED - M.D. 05-13						FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT	



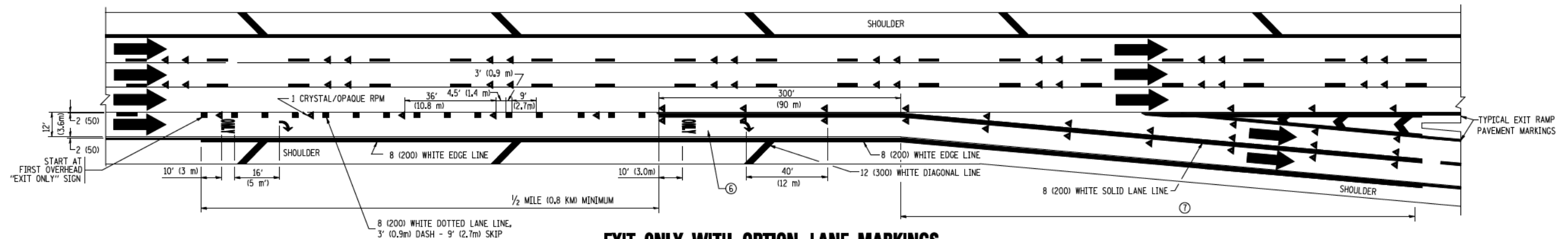
AUXILIARY LANE MARKINGS



TWO LANE ENTRANCE RAMP WITH MERGE MARKINGS



EXIT ONLY LANE MARKINGS



EXIT ONLY WITH OPTION LANE MARKINGS

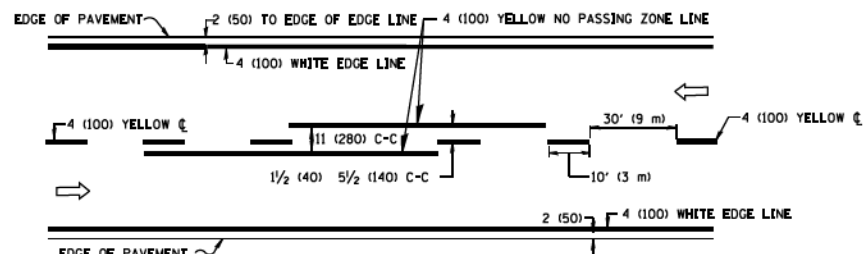
- NOTES**
- ③ OMIT WHEN LENGTH OF AUXILIARY LANE IS LESS THAN 500' (150 m).
 - ④ 8-INCH WIDE DOTTED LANE LINE MARKINGS SHALL BE USED WHEN THE LENGTH OF THE AUXILIARY LANE IS 2 MILES OR LESS.
 - ⑤ FOR TWO-LANE ENTRANCE RAMP, IF RIGHT LANE ENDS, USE TYPICAL ENTRANCE RAMP PAVEMENT MARKINGS.
 - ⑥ ONLY AND ARROWS EQUALLY SPACED, 500' (150 m) MAXIMUM SPACING. FULL SIZE LETTERS AND ARROW SHALL BE USED.
 - ⑦ CONTINUE 8" SOLID LANE LINE THROUGH EXIT TO END OF PAVED CORE.

FILE NAME =	USER NAME = luyao	DESIGNED - D.W.S.	REVISED - D.W.S. 07-96
ca:\pwork\PIWIDOT\LEYSAN\0108315\to12.dwg		DRAWN -	REVISED - J.A.F. 02-06
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - S.P.B. 01-07
	PLOT DATE = 1/22/2010	DATE - 01-90	REVISED - S.P.B. 01-10

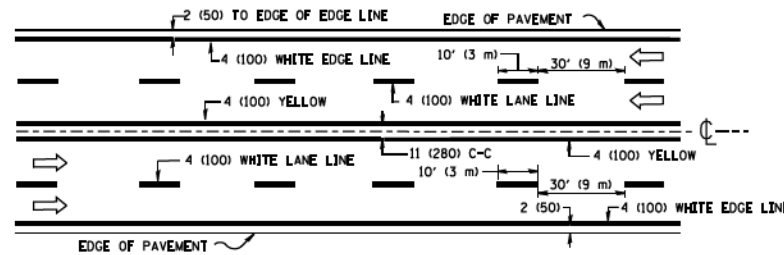
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

MULTI-LANE FREEWAY PAVEMENT MARKING DETAILS			
SCALE: NONE	SHEET NO. 2 OF 2 SHEETS	STA.	TO STA.

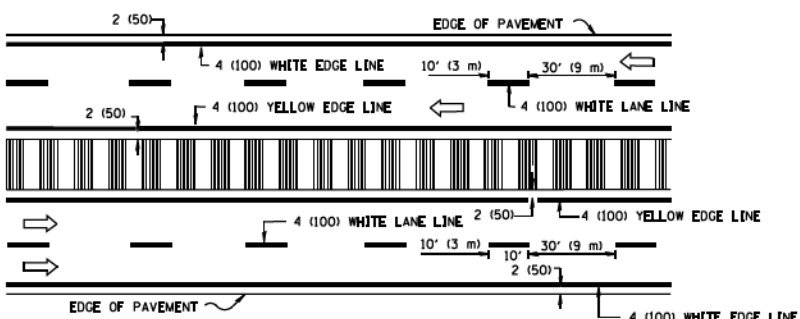
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-011R	COOK	442	384
TC-12		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

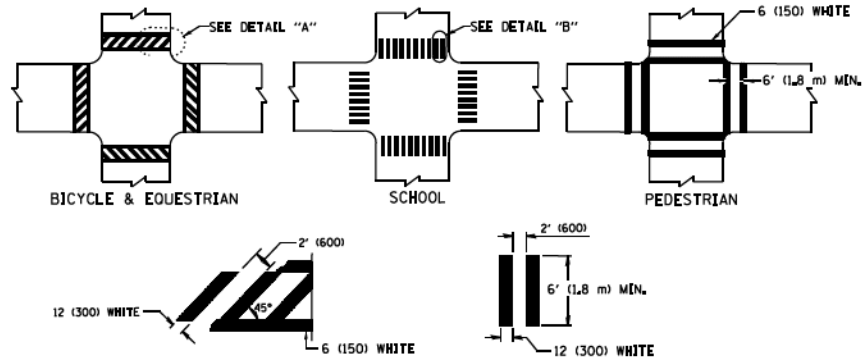


MULTI-LANE UNDIVIDED



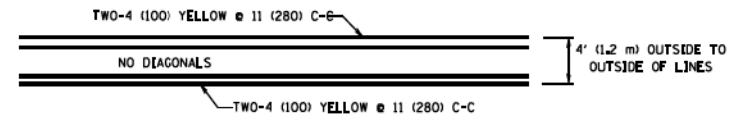
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

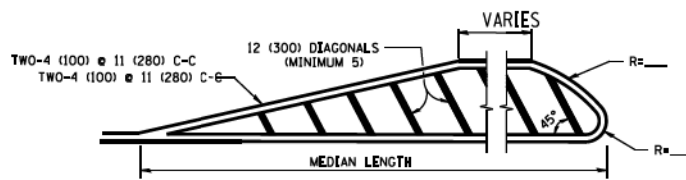


TYPICAL CROSSWALK MARKING

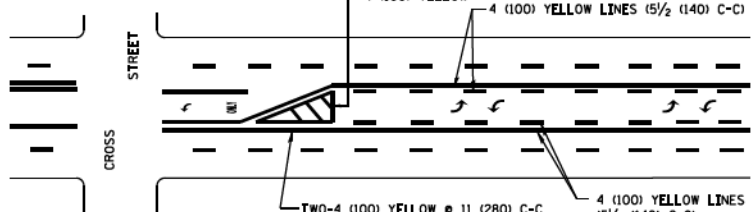
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



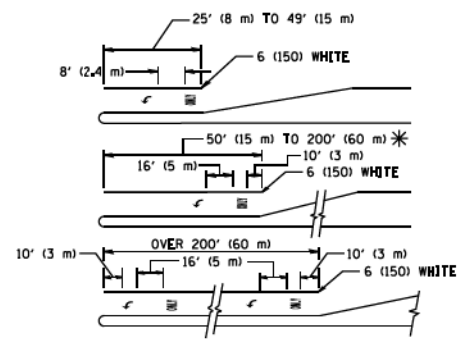
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE



MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

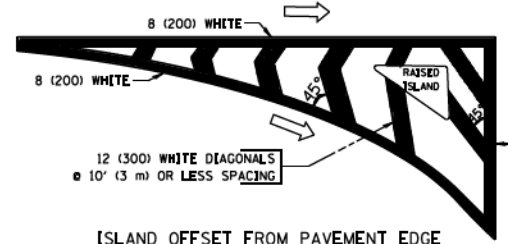


TYPICAL TURN LANE MARKING

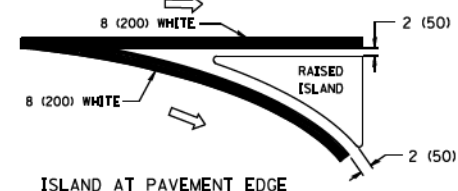
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²)

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

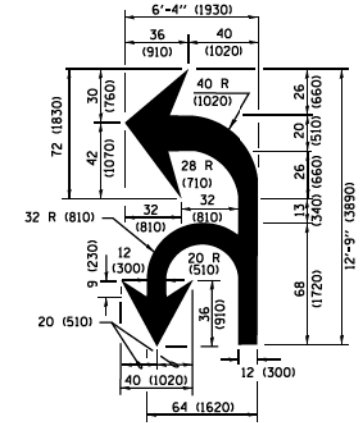


ISLAND OFFSET FROM PAVEMENT EDGE

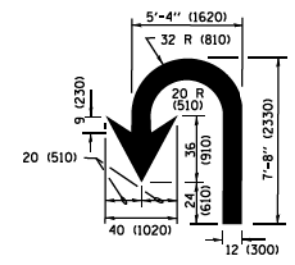


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK. IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW WHITE	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES "RR" 15' 6" (4.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "X" = 3.6 SQ. FT. (0.33 m ²) EACH "X" = 54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

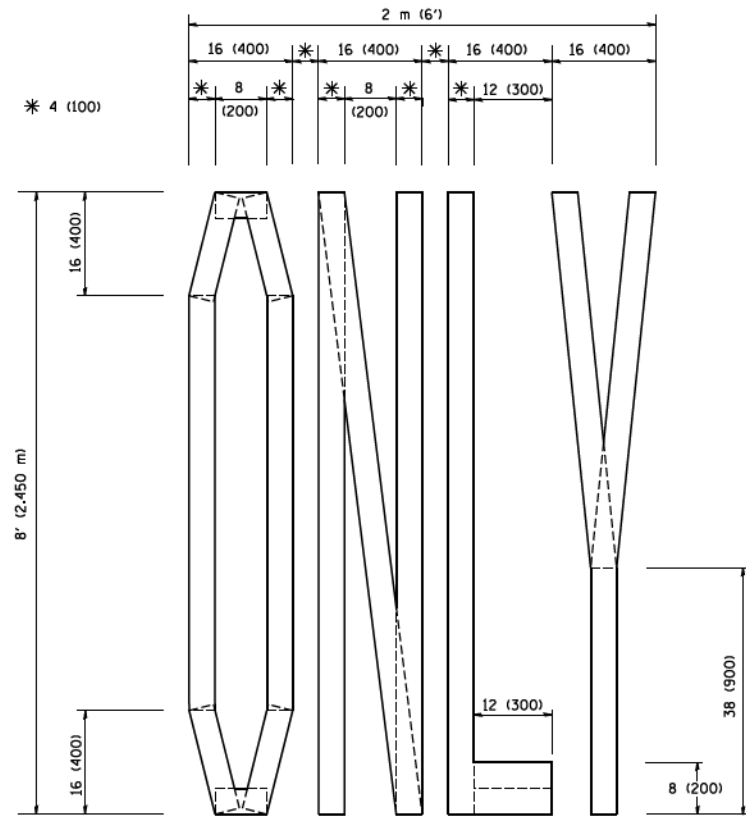
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = lszakrf	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
pw\11.084EBID\INTEG\Illinois.gov\FWDDT\Documents\DOT Offices\District 1\Projects\Dist 1\021011\CADData\CAD\hearts\to13.dgn		CHECKED -	REVISED - C. JUCIUS 09-09-09
	PLOT SCALE = 58.000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 07-01-13
Default	PLOT DATE = 12/21/2015		REVISED - C. JUCIUS 12-21-15

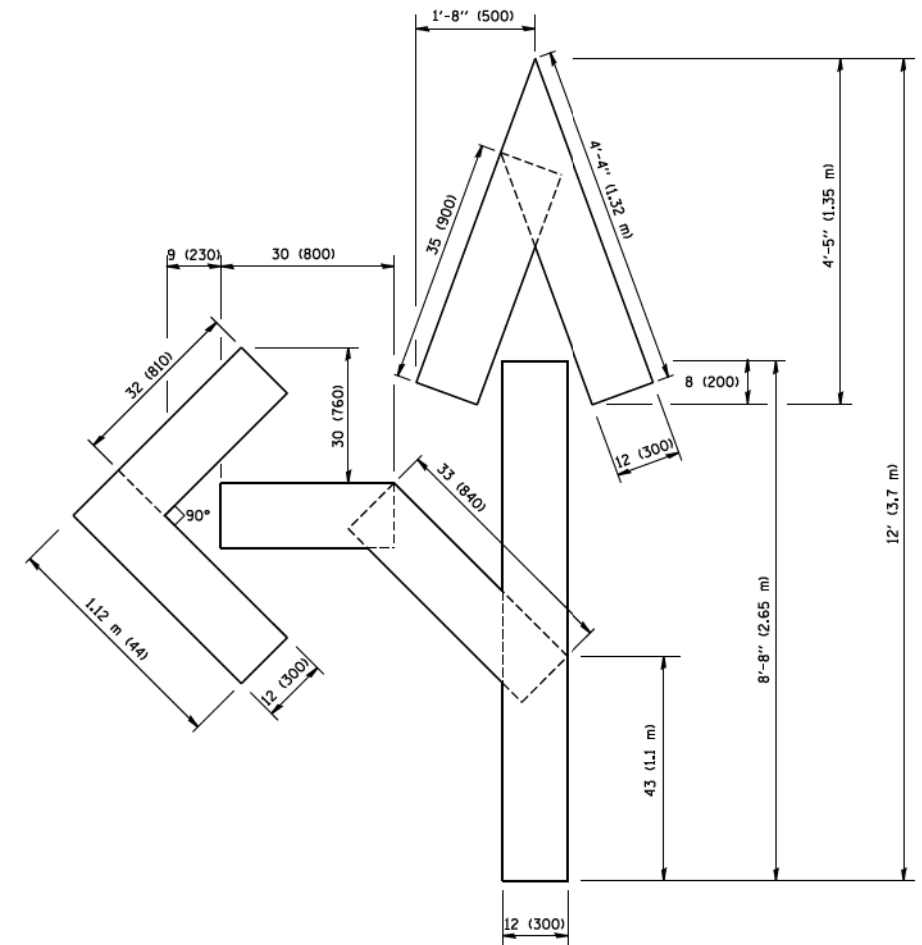
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

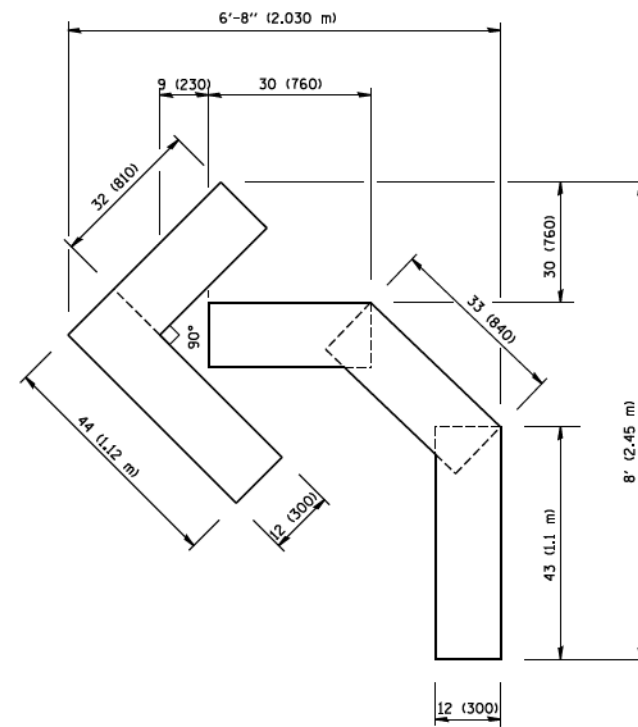
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	TC-13		442	385
ILLINOIS FED. AID PROJECT			CONTRACT NO. 60X99	



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

All dimensions are in Inches (millimeters) unless otherwise shown.

FILE NAME = W:\diststd\22x34\to16.dgn	USER NAME = geglanoht	DESIGNED - DRAWN -	REVISED -T. RAMMACHER 06-05-96 REVISED -T. RAMMACHER 11-04-97
	PLOT SCALE = 50.0000 / IN.	CHECKED -	REVISED -T. RAMMACHER 03-02-98
	PLOT DATE = 1/4/2008	DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00

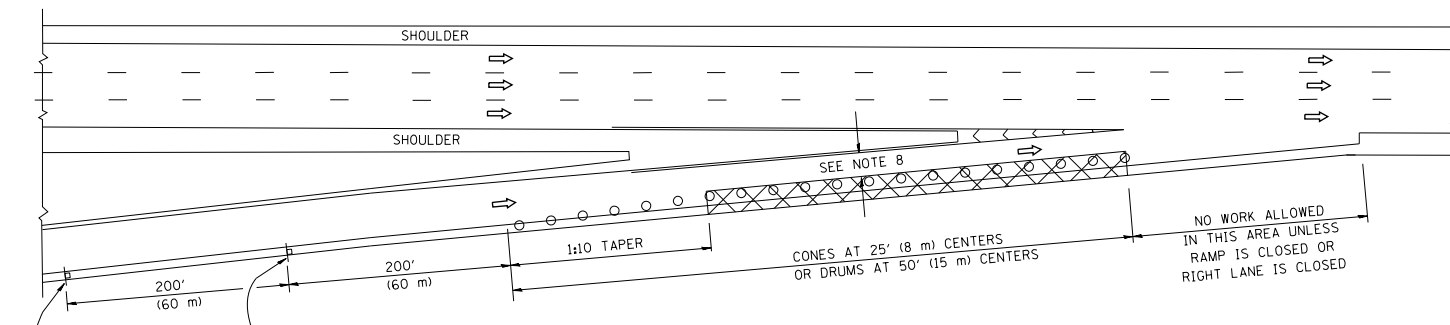
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING**

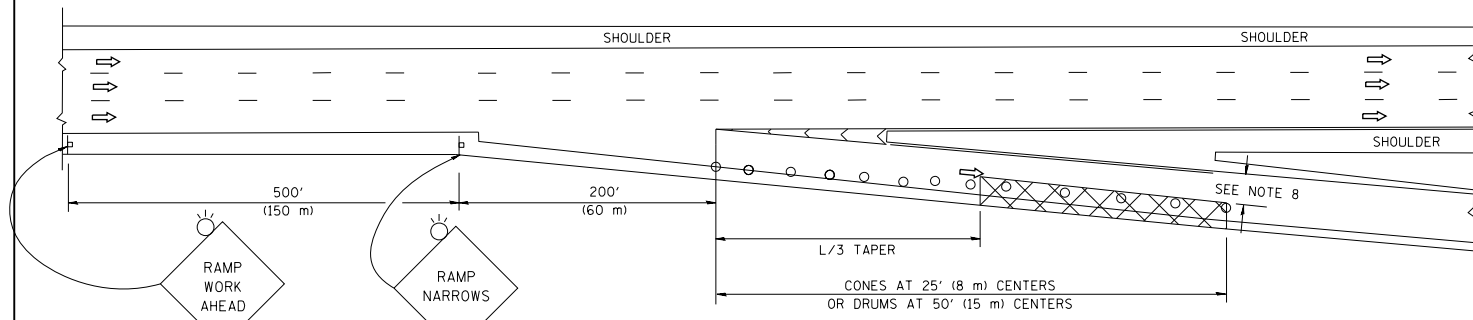
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	386
TC-16			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

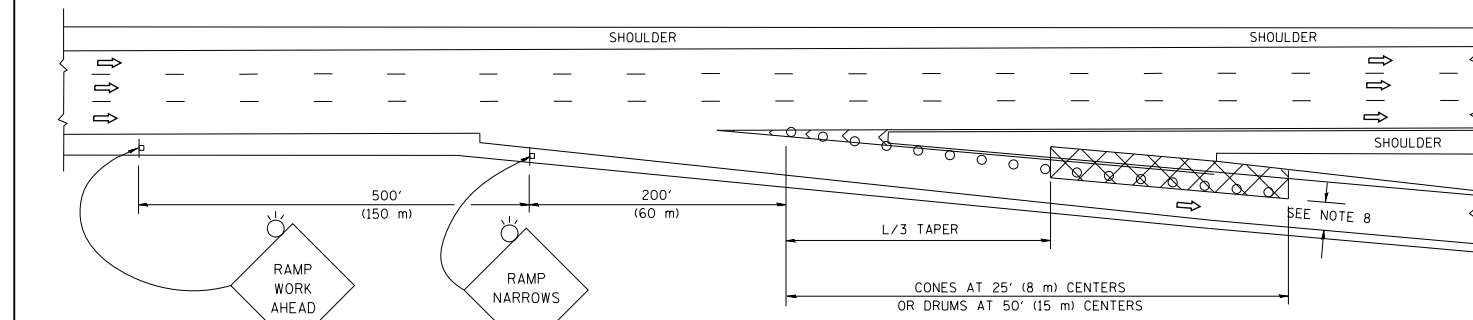
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

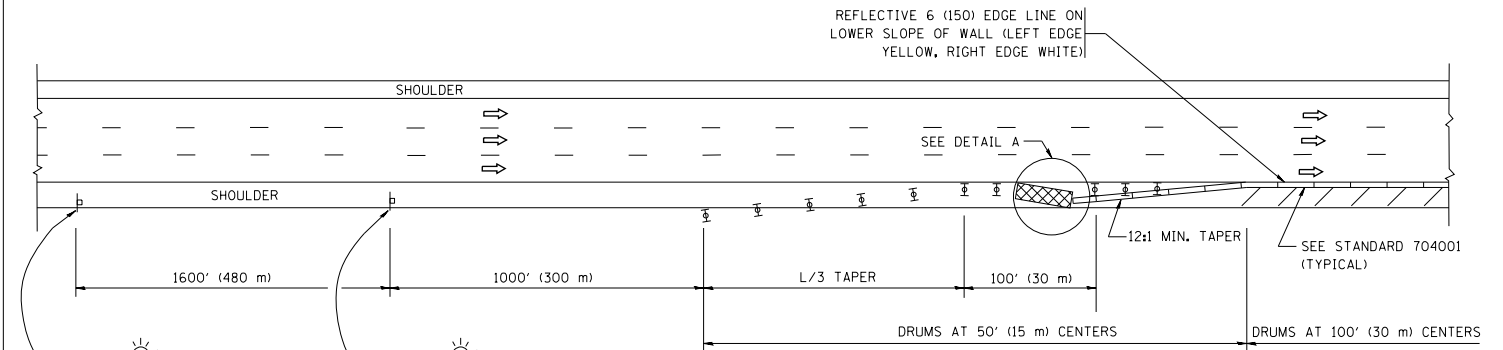
SYMBOLS

- ACTIVE WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, OR DRUM WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE
- IMPACT ATTENUATOR OF TYPE AND TEST LEVEL SPECIFIED

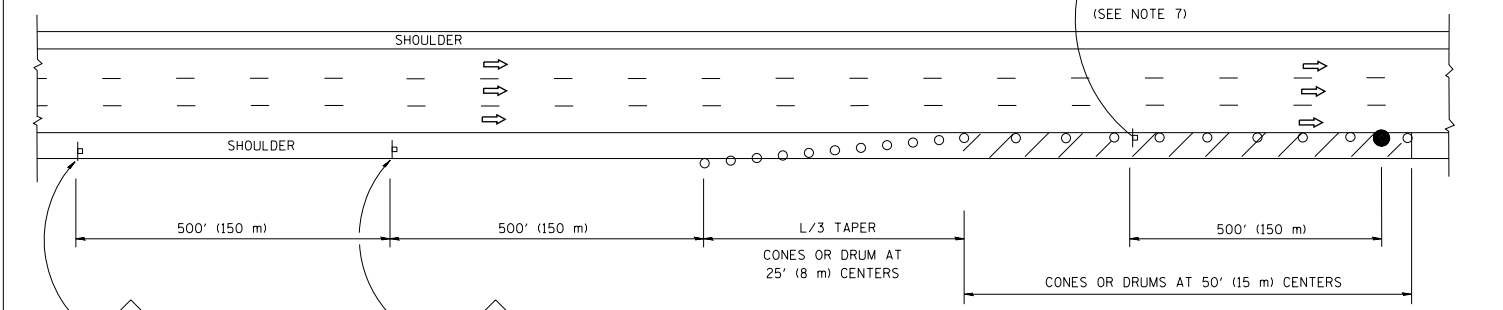
GENERAL NOTES

1. THE "L" DISTANCE EQUALS:
 SPEED LIMIT FORMULAS
 45 mph (80 km/h) METRIC ENGLISH
 OR GREATER: L=0.65(W)(S) L=(W)(S)
 W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
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

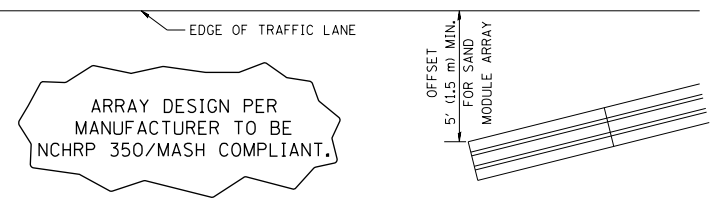


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

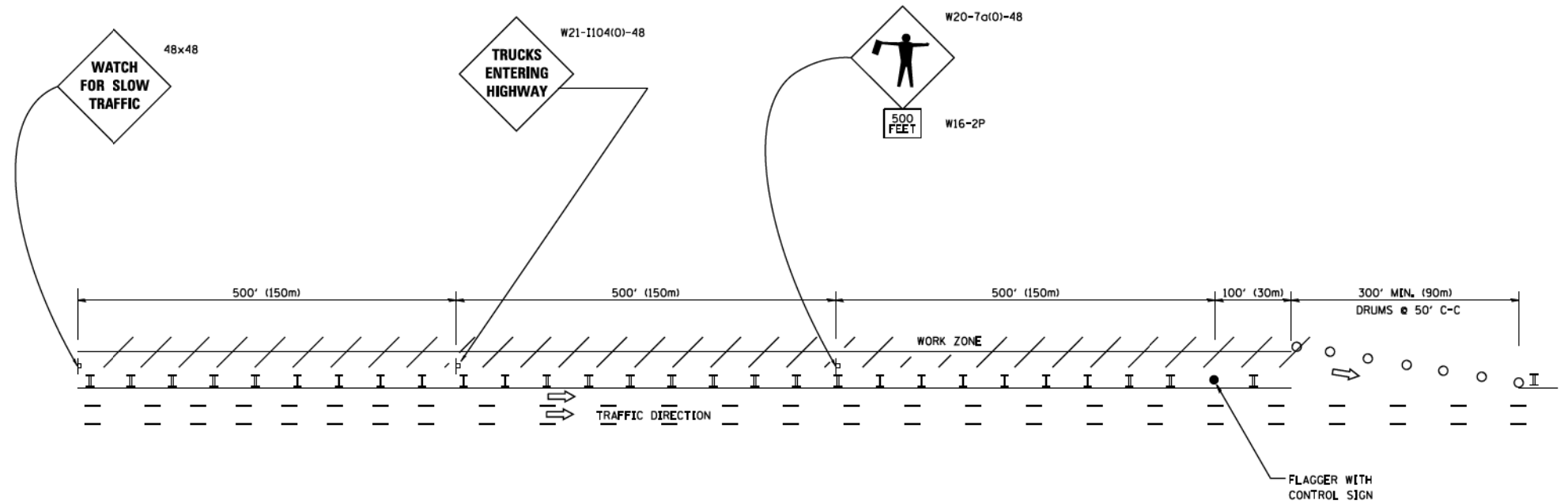
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE NARROW USE TYPE DEVICE TO MEET NCHRP350/MASH.
6. AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL 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 ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.
8. 12" MIN. WIDTH TANGENT SECTION
 16" MIN. WIDTH CURVE SECTION

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

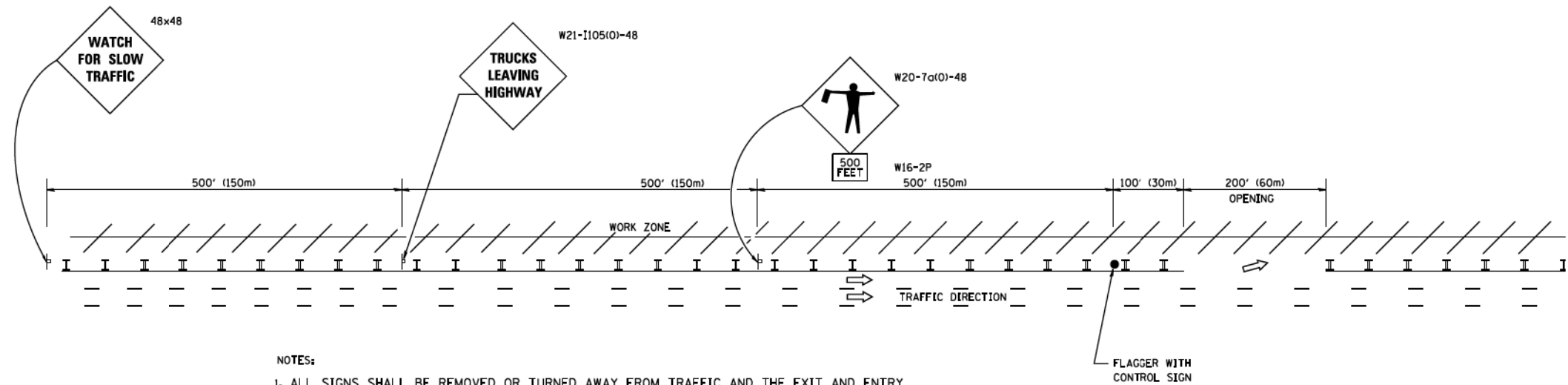
FILE NAME = C:\pwwork\pwwidot\Footmej\dolo8315\tcl7.dgn	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 12-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES			F.A. RTE. =	SECTION =	COUNTY =	TOTAL SHEETS =	SHEET NO. =
		DRAWN - D.W.S.	REVISED - S.P.B. 01-07		SCALE: NONE	SHEET NO. 26 OF 32 SHEETS	STA. TO STA.	2013-011R	COOK	442	387	
		CHECKED -	REVISED - S.P.B. 12-09					TC-17		CONTRACT NO. 60X99		
		DATE - 11-96	REVISED - M.D. 06-13					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



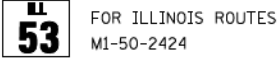
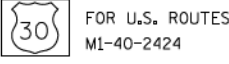
NOTES:

1. ALL SIGNS SHALL BE REMOVED OR TURNED AWAY FROM TRAFFIC AND THE EXIT AND ENTRY OPENINGS SHALL BE CLOSED WHEN THE FLAGGING OPERATION CEASES. NON OPERATING EQUIPMENT SHALL COMPLY WITH ARTICLE 701.11
2. WORK ZONE OPENINGS SHALL BE A MINIMUM OF ONE HALF MILE APART AND A MINIMUM OF ONE QUARTER MILE FROM ALL ENTRANCE AND EXIT RAMPS.
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
5. FLAGGERS SHALL NOT STOP TRAFFIC OR DIRECT TRAFFIC INTO AN ADJACENT LANE.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = footemj	DESIGNED -	REVISED - J.A.F. 02-06	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	FREEWAY/EXPRESSWAY SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS ON FREEWAYS/EXPRESSWAYS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ca:\pwork\pwork\footemj\d0108315\to18.dgn		DRAWN -	REVISED - S.P.B. 01-07						2013-011R	COOK	442	388
		CHECKED -	REVISED - S.P.B. 12-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	TC-18			
		DATE -	REVISED - M.D. 06-13		CONTRACT NO. 60X99							
				FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT								

ROUTE MARKERS



R.R. UNMARKED ROUTES
SPECIAL 24" x 18" VARIABLE
4" BLACK LETTERS ON WHITE
REFLECTIVE BACKGROUND

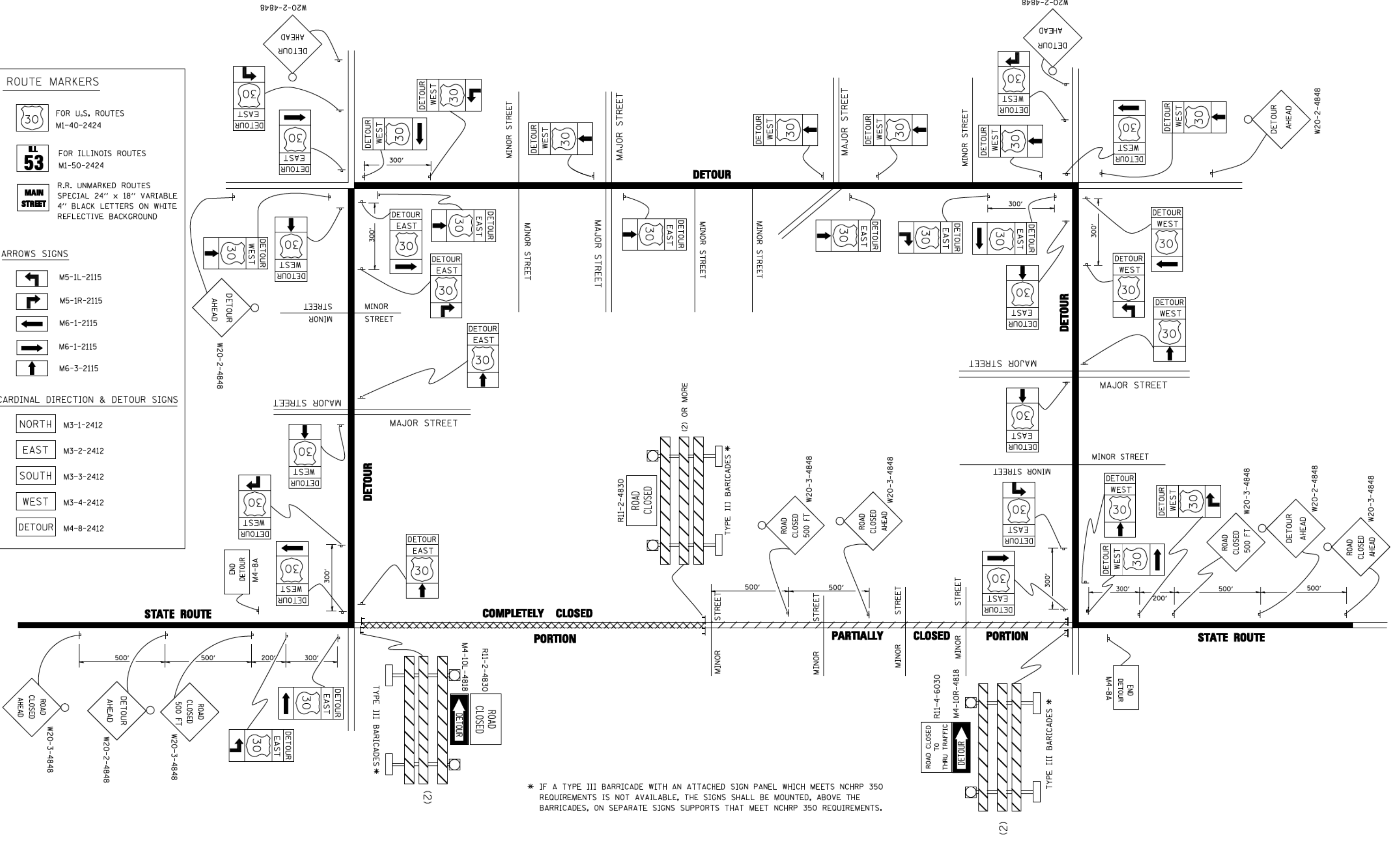


ARROWS SIGNS

- M5-1L-2115
- M5-1R-2115
- M6-1-2115
- M6-1-2115
- M6-3-2115

CARDINAL DIRECTION & DETOUR SIGNS

- NORTH M3-1-2412
- EAST M3-2-2412
- SOUTH M3-3-2412
- WEST M3-4-2412
- DETOUR M4-8-2412



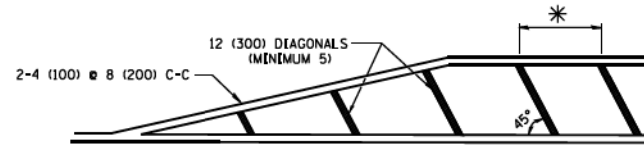
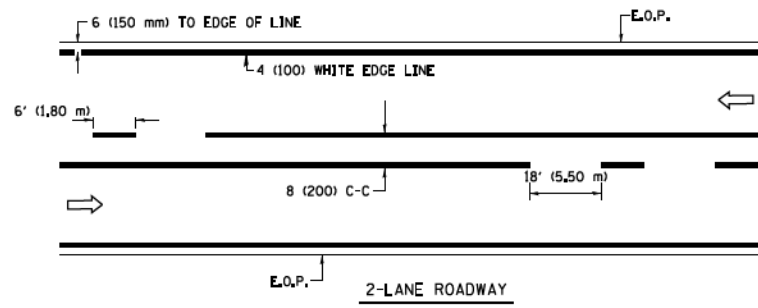
* IF A TYPE III BARRICADE WITH AN ATTACHED SIGN PANEL WHICH MEETS NCHRP 350 REQUIREMENTS IS NOT AVAILABLE, THE SIGNS SHALL BE MOUNTED, ABOVE THE BARRICADES, ON SEPARATE SIGNS SUPPORTS THAT MEET NCHRP 350 REQUIREMENTS.

FILE NAME =	USER NAME = drivakosgn	DESIGNED -	REVISED - 10-18-02
ca\pwork\PIWIDOT\DRIVAKOSGN\d0108315\td21.dgn		DRAWN -	REVISED - R. BORO 09-14-09
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

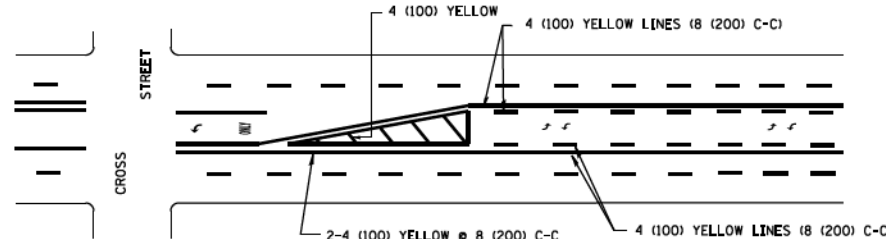
DETOUR SIGNING FOR CLOSING STATE HIGHWAYS	
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS
STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2013-01R	COOK	442	389
TC-21			CONTRACT NO. 60X99	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

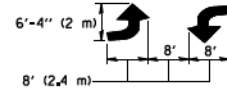


* FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.
 * DIAGONAL LINE SPACING: 20' (6.1 m) C-C

PAINTED MEDIANS

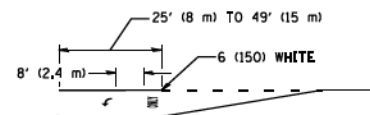
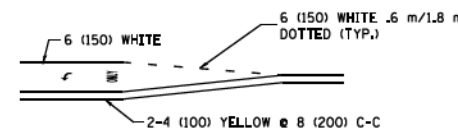


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

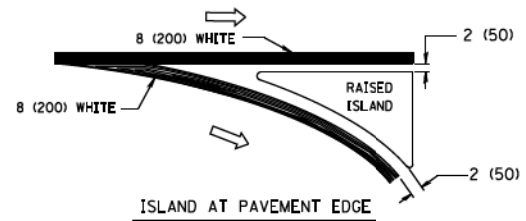
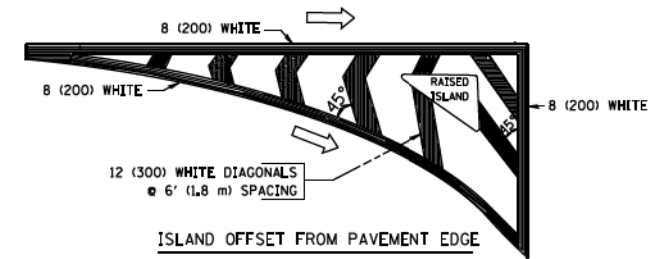
TYPICAL PAINTED MEDIAN MARKING



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 AREA = 15.8 SQ. FT. (1.47 m²) AREA = 22.9 SQ. FT. (2.13 m²)
 * TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

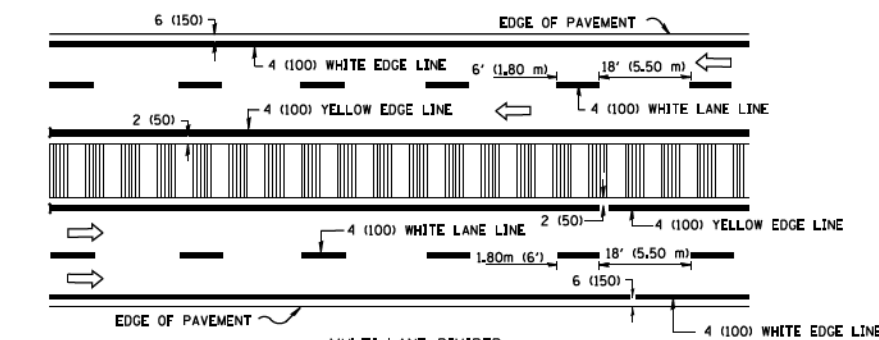
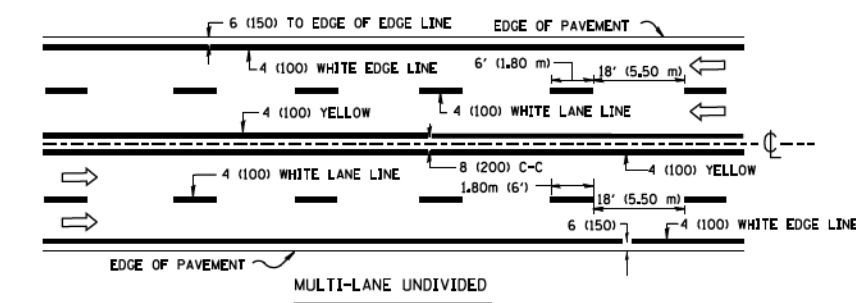


TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 x 4 (100)	SOLID	YELLOW	8 (200) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 x 4 (100)	SOLID SOLID	YELLOW YELLOW	8 (200) C-C
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	6' (1.80 m) LINE WITH 18' (5.50 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4 m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 x 4 (100) EACH DIRECTION 8' (2.4 m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	6' (1.8 m) LINE WITH 18' (5.50 m) SPACE FOR SKIP-DASH; 8 (200) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL & PEDESTRIAN)	12 (300) @ 45° 24 (600) @ 90°	SOLID SOLID	WHITE WHITE	2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 x 4 (100) WITH 12 (300) DIAGONALS @ 45°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	8 (200) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 20' (6.1 m) (LESS THAN 30 MPH (50 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF "R" = 3.6 SQ. FT. (0.33m ²) EACH "X" = 54.0 SQ. FT. (5.0 m ²)

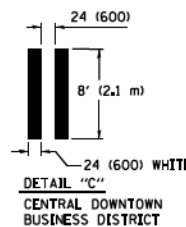
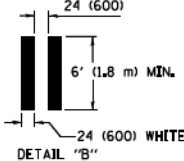
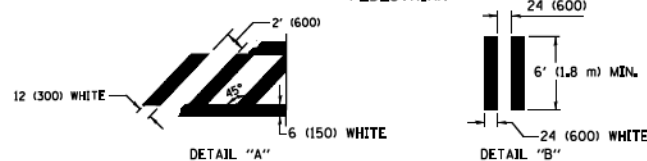
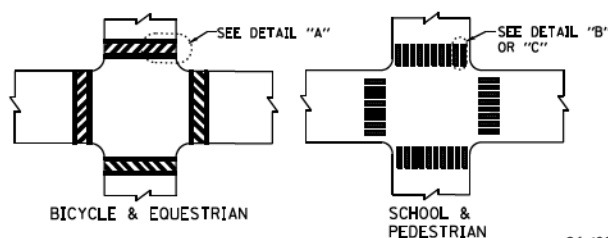
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STREET MARKING STANDARDS, PRINTED BY CITY OF CHICAGO, DEPARTMENT OF TRANSPORTATION, BUREAU OF TRAFFIC.

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



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING

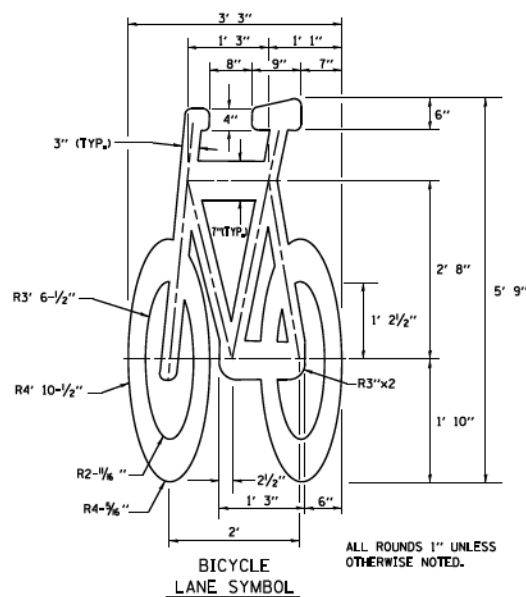
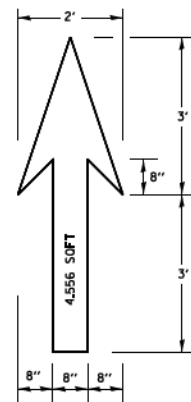
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	PLOT SCALE = 58.800' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/1/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CITY OF CHICAGO
TYPICAL PAVEMENT MARKINGS**

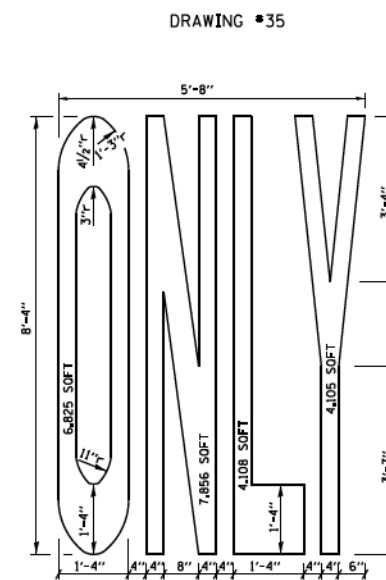
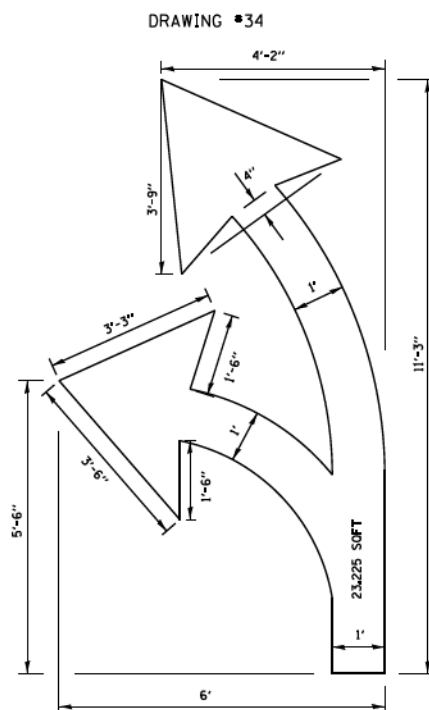
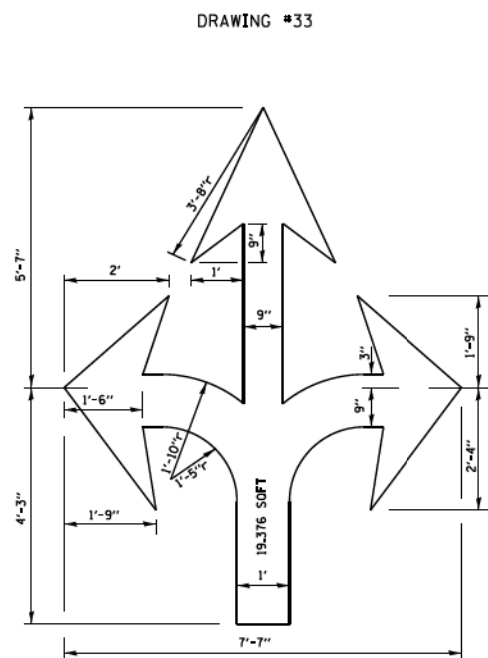
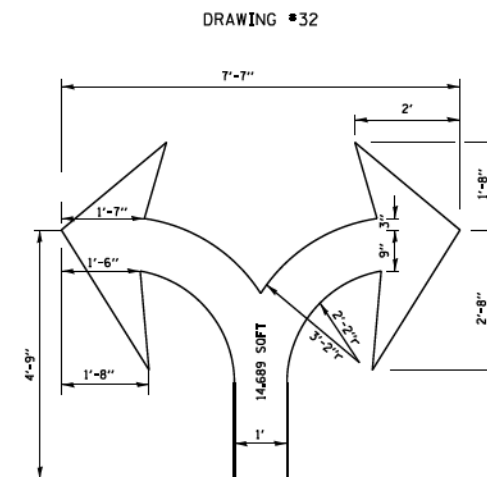
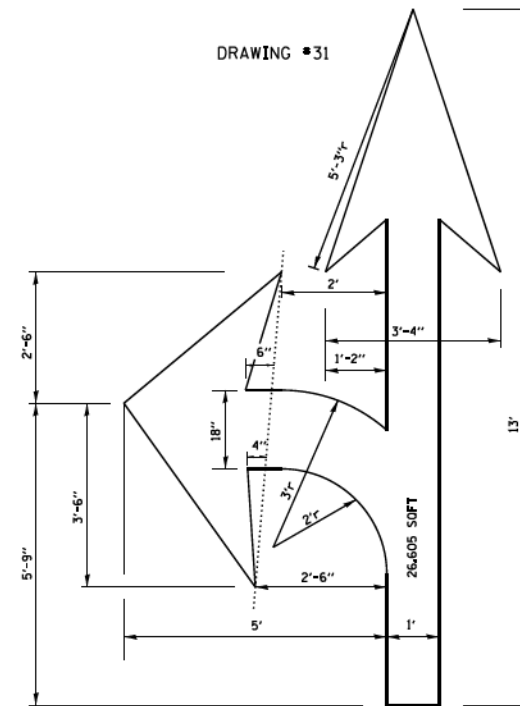
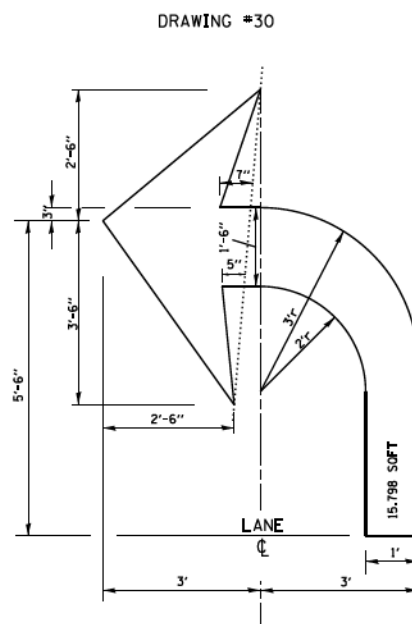
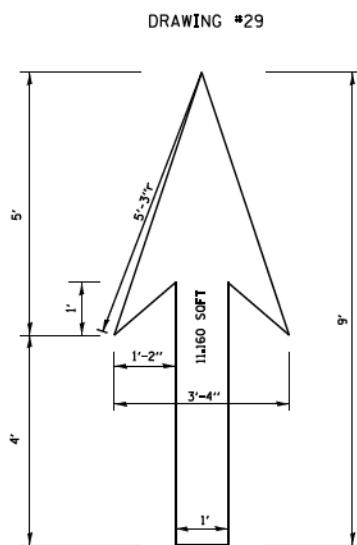
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	442	390
TC-24		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

SCALE: NONE SHEET NO. 1 OF 3 SHEETS STA. TO STA.



- NOTE:**
- FOR BIKE LANE SYMBOLS ONLY, USE PRE-FORMED THERMOPLASTIC WITH A MINIMUM THICKNESS OF 90 MILS, MINIMUM SKID RESISTANCE VALUE OF 60 BPN, & A MINIMUM INDEX OF REFRACTION OF 1.50.
 - THE RESIDENT ENGINEER SHALL CONTACT MR. BEN GOMBERG AT 312-744-8093 AT LEAST ONE CALENDAR WEEK PRIOR TO INSTALLING BIKE LANE SYMBOLS.

TYPICAL BIKE LANE SYMBOLS
DRAWING #28



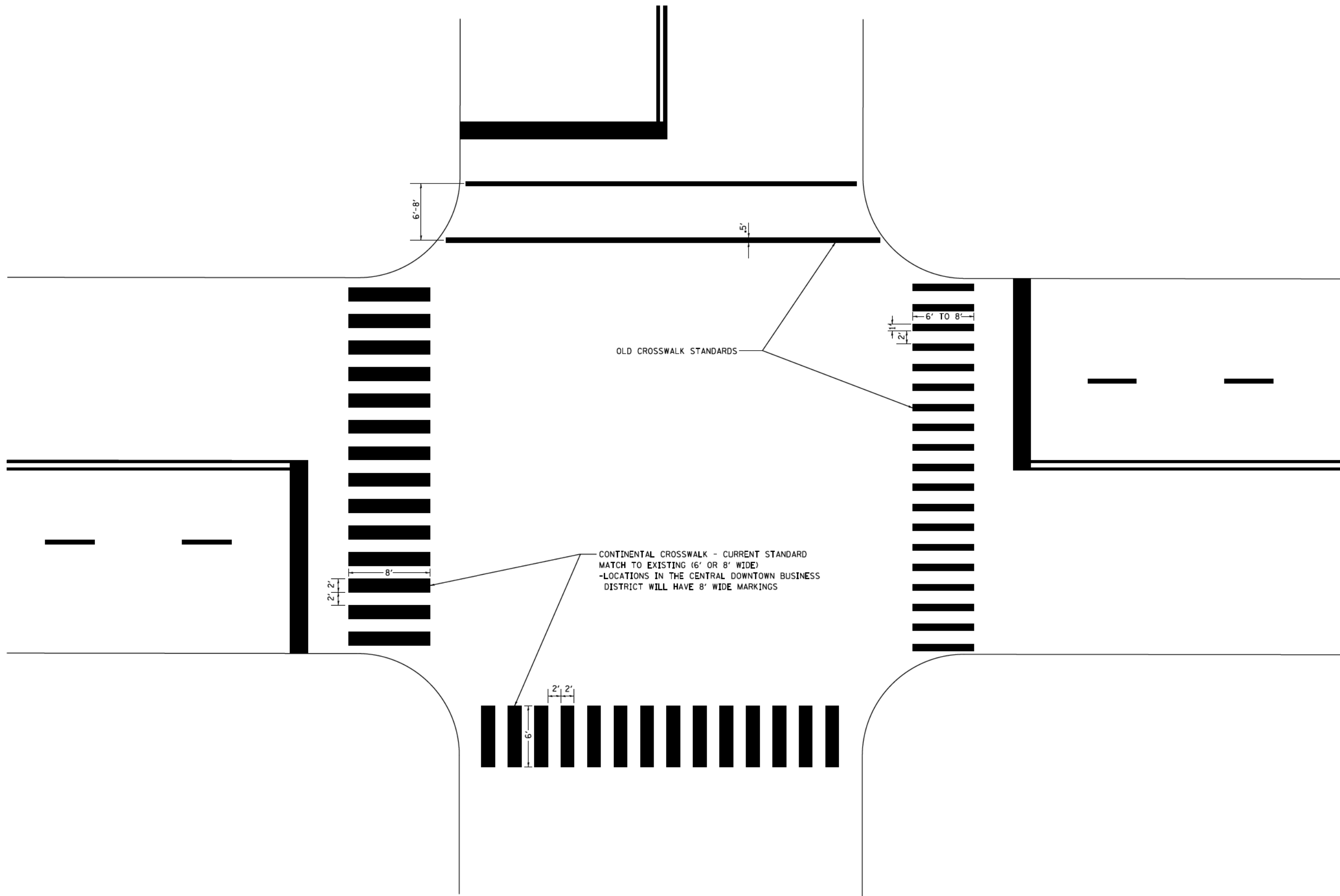
NOTE:
ALL MARKINGS SHALL BE SOLID WHITE UNLESS OTHERWISE NOTED IN THE PLANS

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	PLOT SCALE = 58.800' / in.	CHECKED -	REVISED -
	PLOT DATE = 3/29/2012	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CITY OF CHICAGO	
TYPICAL PAVEMENT MARKINGS	
SCALE: NONE	SHEET NO. 2 OF 3 SHEETS STA. TO STA.

P.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2013-011R	COOK	442	391
TC-24		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

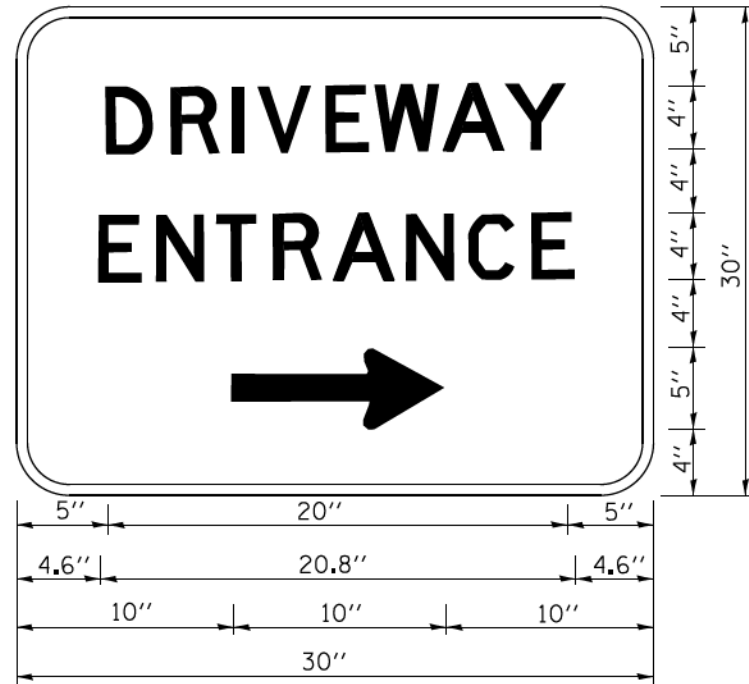


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	PLOT DATE = 3/29/2012	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CITY OF CHICAGO			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 3 OF 3 SHEETS	STA.	TO STA.

F.A.I. RTE. 90/94/290	SECTION 2013-011R	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 392
TC-24		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
 "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

NOTES:

1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
 PLACED BACK-TO-BACK; ONE WITH A RIGHT HAND ARROW (SHOWN)
 SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
 AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
 FAR LEFT SIDE OF THE DRIVEWAY.
3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

FILE NAME =	USER NAME = geglianobt	DESIGNED -	REVISED - C. JUCIUS 02-15-07
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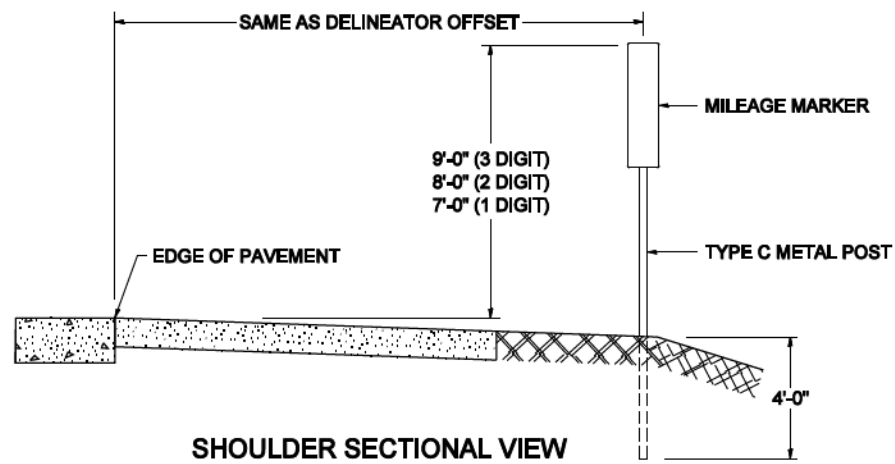
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

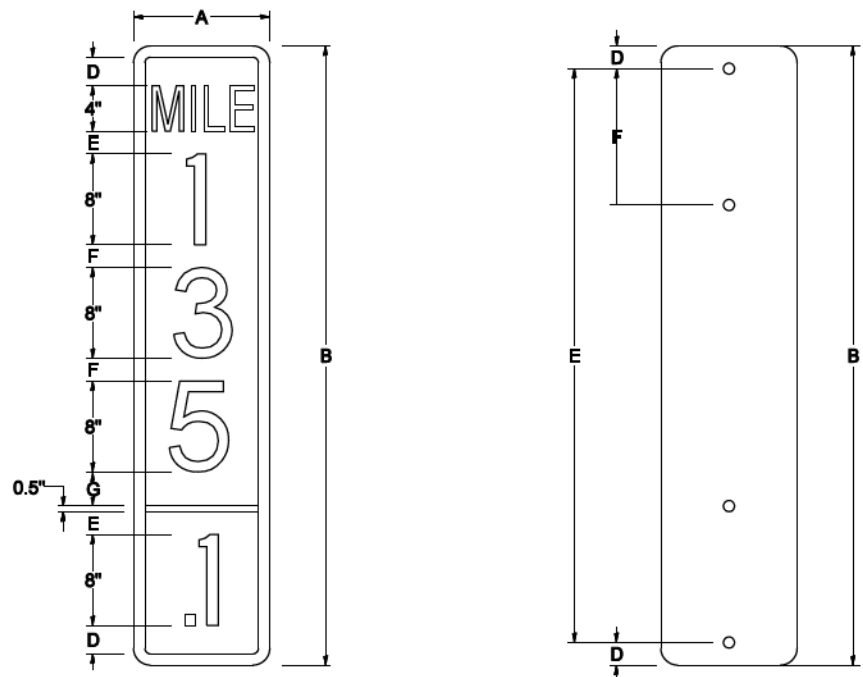
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			442	393
TC-26		CONTRACT NO. 60X99		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

STANDARD DESIGN FOR MILE POST



SHOULDER SECTIONAL VIEW

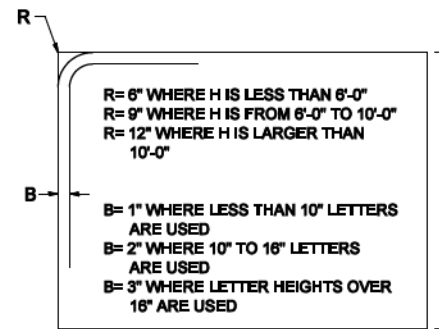


SIGN SIZE	DIMENSIONS							
	A	B	C	D	E	F	G	DIGIT
12 x 24	12.0	24.0	1.5	1.5	1.5	N/A	1.5	1
12 x 36	12.0	36.0	1.5	2.0	2.0	2.0	1.5	2
12 x 48	12.0	48.0	1.5	2.5	2.0	2.0	2.5	3

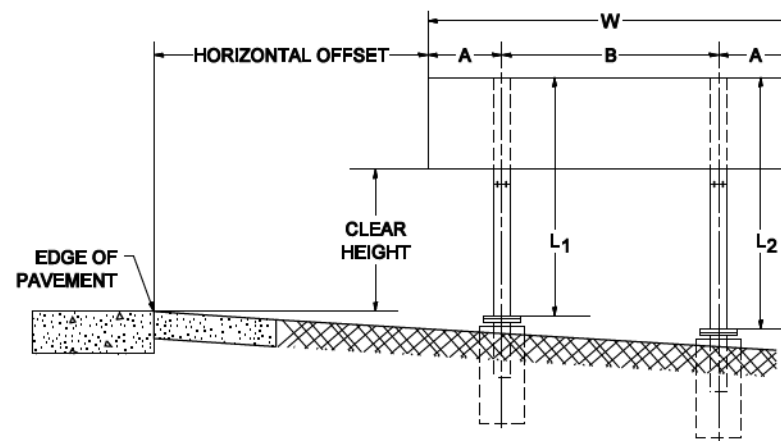
BLANK	A	B	C	D	E	F
B9-1224	12.0	24.0	1.5	2.0	20.0	N/A
B9-1236	12.0	36.0	1.5	2.0	32.0	12.0
B9-1248	12.0	48.0	1.5	2.0	44.0	12.0

SIGN SIZE	SERIES					BORDER	BLANK STD.
	LINES						
	1	2	3	4	5		
12 x 24	4C	8D	4C	N/A	N/A	0.5	B9-1224
12 x 36	4C	8D	8D	4C	N/A	0.5	B9-1236
12 x 48	4C	8D	8D	8D	4C	0.5	B9-1248

BORDER AND RADIUS LAYOUT



MAJOR GUIDE SIGN LAYOUT

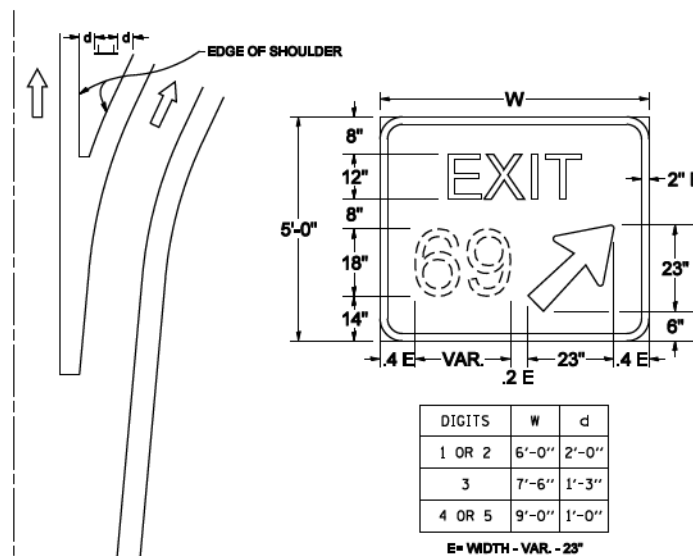


NUMBER OF STEEL SUPPORTS	A	B
2	.2 W	.6 W
3	.15 W	.35 W
4	.125 W	.25 W
5	.1 W	.2 W

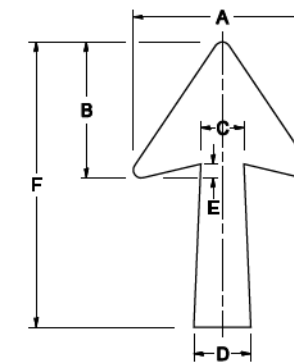
L₁ IS THE LENGTH OF SUPPORT, NOT INCLUDING THE STUB PROJECTION, CLOSEST TO THE EDGE OF THE PAVEMENT.

"A" IS THE DISTANCE FROM THE SIGN EDGE TO THE CENTERLINE OF THE NEAREST SUPPORT. "B" IS THE DISTANCE BETWEEN CENTERLINES OF SUPPORTS.

GORE SIGNS

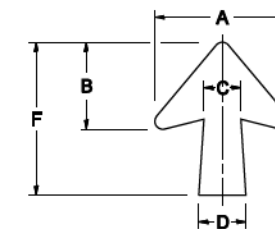


STANDARD ARROWS FOR INTERSTATE GUIDE SIGNS



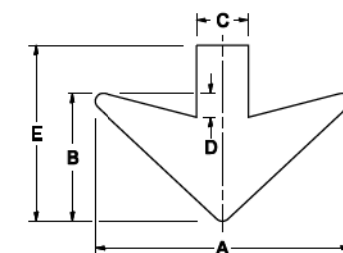
ARROW SYMBOL	A	B	C	D	E	F	R
24 1/4 x 15 1/8	15 1/8	11 3/8	3 3/4	5	1 1/2	24 1/4	1 1/8
29 1/4 x 18 1/4	18 1/4	14	4 1/2	6	1 1/2	29 1/4	3/4
35 5/8 x 22 1/4	22 1/4	17	5 3/8	7 1/8	1 3/4	35 5/8	1
18 1/4 x 11 1/4	11 1/4	8 3/4	3 1/8	3 3/8		18 1/4	

NOTE: D & F ARE RECOMMENDED DIMENSIONS. TAPER SHOULD BE HELD CONSTANT FOR LONGER OR SHORTER SHAFT LENGTHS

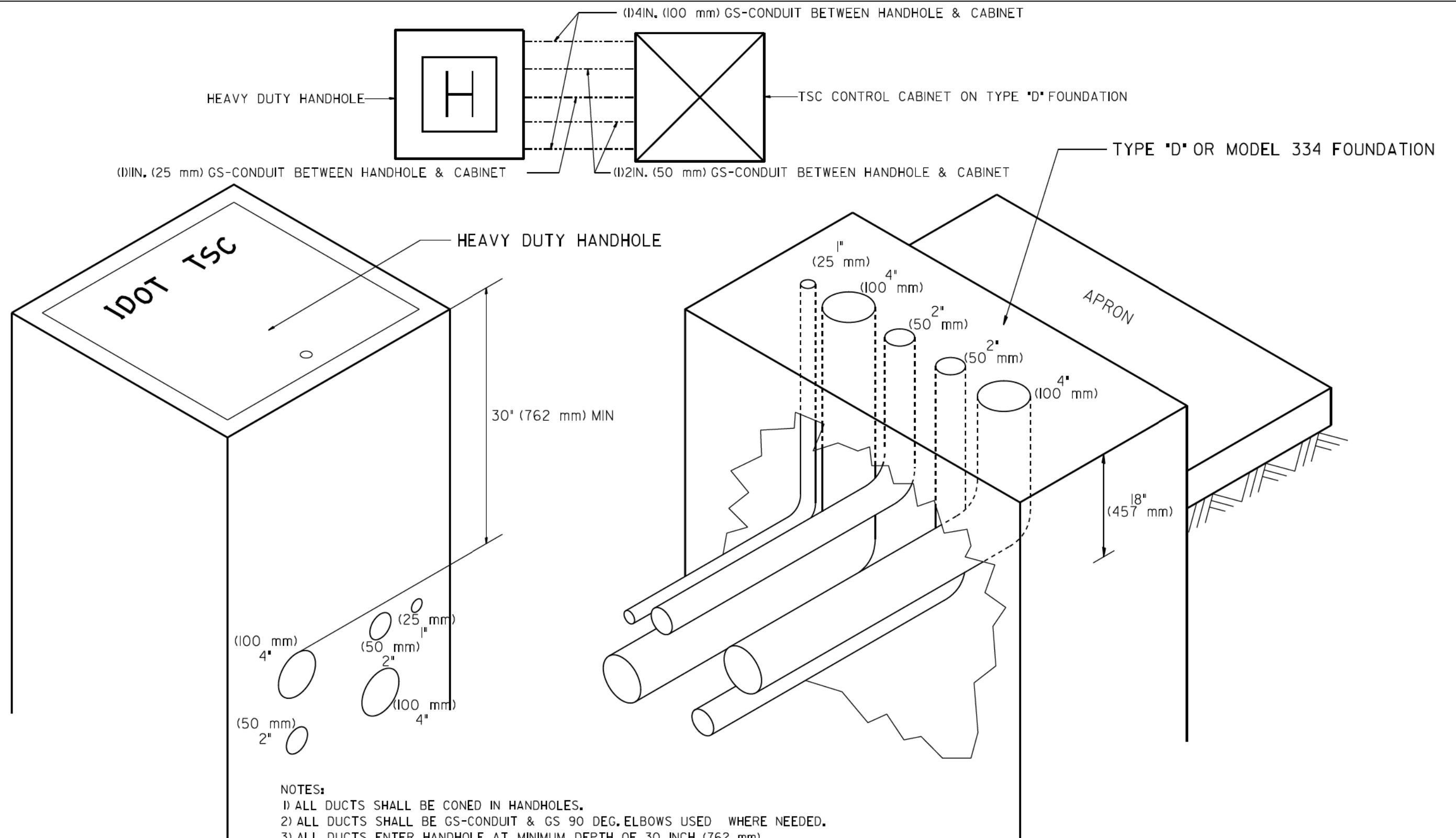


ARROW SYMBOL	A	B	C	D	E	F	R
17 1/4 x 14 1/4	14 1/4	9 1/8	3 3/8	4 1/2	5/8	17 1/4	3/4
20 1/4 x 17 1/4	17 1/4	11 3/4	4 3/8	5 5/8	1 1/2	20 1/4	
25 x 21 1/8	21 1/8	14 1/4	5	6 3/4	1 3/4	25	1
9 5/8 x 8 1/8	8 1/8	5 1/8	2 1/8	2 1/8		9 5/8	1/2

DOWN ARROWS



ARROW SYMBOL	A	B	C	D	E	R
16 1/2 x 24	24	12	5	1 1/2	16 1/2	3/4
22 x 32	32	16	6 1/2	3	22	1



NOTES:

- 1) ALL DUCTS SHALL BE CONED IN HANDHOLES.
- 2) ALL DUCTS SHALL BE GS-CONDUIT & GS 90 DEG. ELBOWS USED WHERE NEEDED.
- 3) ALL DUCTS ENTER HANDHOLE AT MINIMUM DEPTH OF 30 INCH (762 mm)
- 4) ALL HANDHOLE COVERS SHALL READ "IDOT TSC".
- 5) ALL CABINET HANDHOLES SHALL BE HEAVY DUTY.
- 6) DUCTS SHALL BE CENTERED IN CABINET FOUNDATION/HANDHOLE AS SHOWN.
- 7) CONDUITS SHALL BE SPACED 305 mm (1FOOT) CENTER TO CENTER IN HEAVY DUTY HANDHOLE.
- 8) INSTALL 3/4" X 10' (20 mm X 3 m) COPPER CLAD STEEL GROUND ROD IN HDHH PROVIDED AS CABINET PAD. EXOTHERMIC WELD CONNECTION FROM GROUND ROD TO #6 GROUND WIRE INSULATED (GREEN).
- 9) BOND ALL GSC CONDUITS IN CABINET FOUNDATION.
- 10) INSTALL #6 GROUND WIRE IN 1IN. (25 mm) GSC FROM HANDHOLE TO CABINET.
- 11) TYPE "D" FOUNDATION SHALL BE 18" FROM TOP OF FOUNDATION TO FINISHED GRADE.

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PLOT SCALE = 100.000 / in.	CHECKED -	REVISED -
PLOT DATE = 12/15/2016	DATE - 12/14/16	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CABINET - HANDHOLE
CONDUIT DETAIL**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	395
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

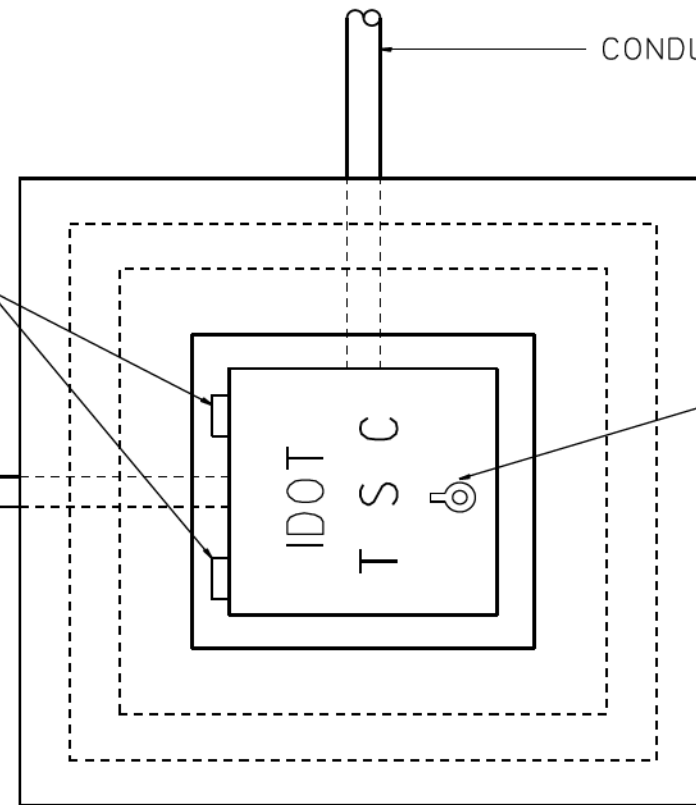
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TYPE "T" HINGES REQUIRED ONLY ON ON HEAVY DUTY SPECIAL.

CONDUIT TYP.

CONDUIT TYP.

TYPE "G" HANDLE FOR BOTH HDHH AND HDHH SPECIAL

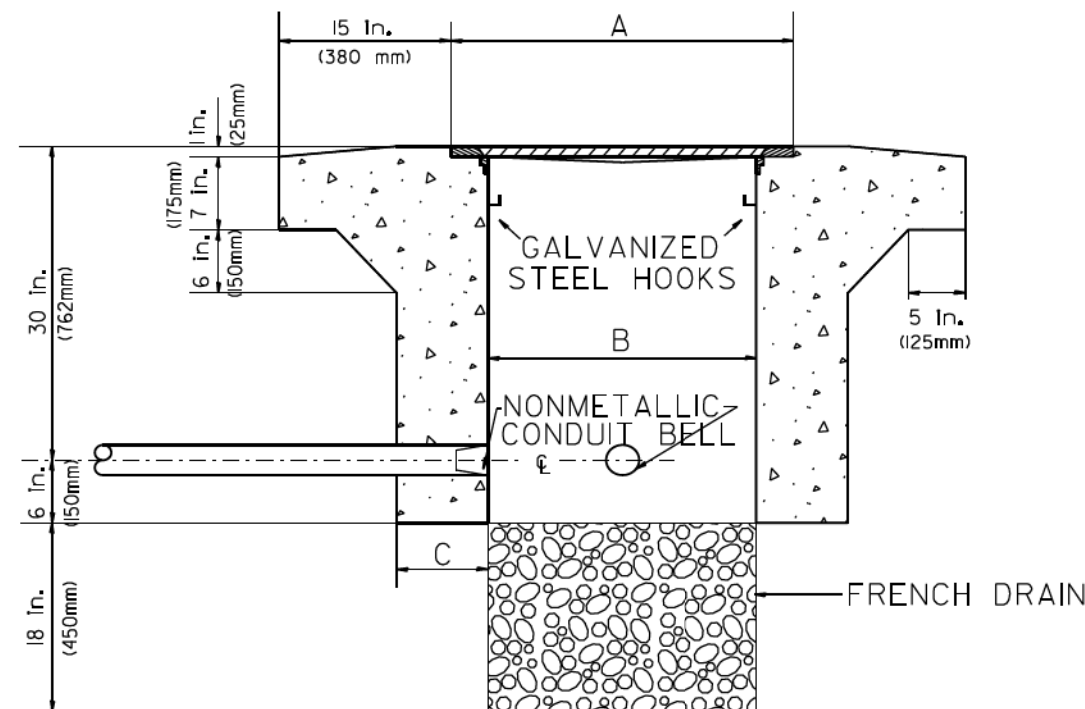


PLAN

HEAVY DUTY HANDHOLE MINIMUM DIMENSIONS (UNHINGED)

A	28" (711 mm)
B	22" (559 mm)
C	8" (200 mm)

(FRAME AND COVER 260 LBS. (118 Kg.) MIN.)



ELEVATION

HEAVY DUTY HANDHOLE SPECIAL MINIMUM DIMENSIONS

A	31.5" (800 mm)
B	30.0" (762 mm)
C	10.0" (250 mm)

(FRAME AND COVER 405 LBS. (184 Kg. (405))

PC CONCRETE - HEAVY DUTY HAND HOLE



DI60X99-SHT-DI-Detail-ITSC-400-15
 USER NAME = mkwilson
 PLOT SCALE = 100.000 / in.
 PLOT DATE = 12/15/2016

DESIGNED -
 DRAWN -
 CHECKED -
 DATE - 12/14/16

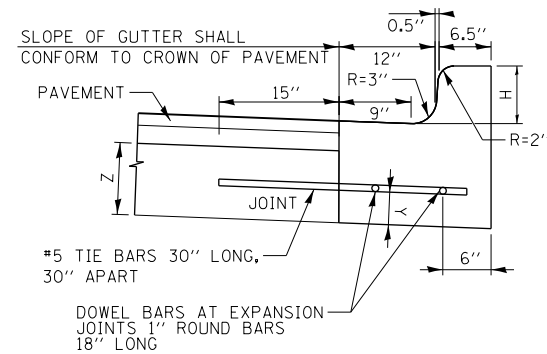
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

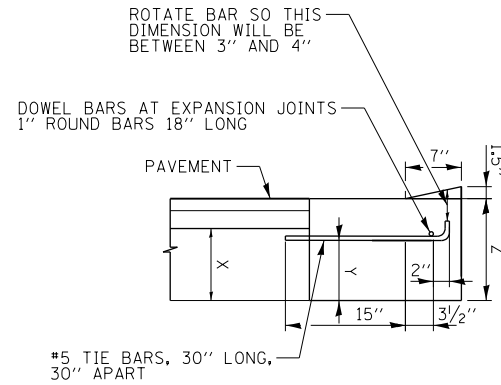
PC CONCRETE - HEAVY DUTY
 HAND HOLE

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

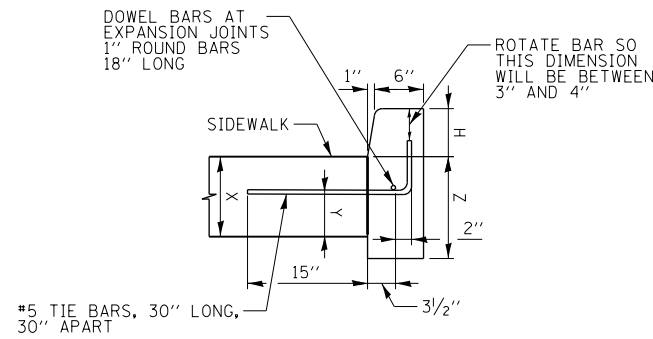
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	396
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	



**COMBINATION CURB AND GUTTER
TYPE B V.12 (CDOT)**



DEPRESSED CURB



BARRIER CURB

CONCRETE CURB, TYPE B (SPECIAL) (CDOT)

**DETAILS OF CONCRETE CURB, TYPE B (SPECIAL) (CDOT) AND
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT)**

DEPRESSED CURB & GUTTER

DEPRESSED CURB AND GUTTER AND TRANSITIONS BETWEEN BARRIER CURB WILL BE PAID FOR UNDER THE ADJACENT CURB ITEM. DEPRESSED CURB AND MOUNTABLE GUTTER MUST MEET CDOT ADA STANDARDS.

JOINTS IN CURB, COMBINED CURB AND GUTTER

TRANSVERSE JOINTS OF A TYPE SIMILAR TO THAT USED IN THE ADJACENT PAVEMENT SHALL BE INSTALLED IN THE CURB, GUTTER AND COMBINED CURB & GUTTER IN PROLONGATION WITH THE JOINTS IN THE PAVEMENT. THE DETAILS OF THE TRANSVERSE JOINTS IN THE CURB, GUTTER AND COMBINED CURB & GUTTER SHALL BE APPROVED BY THE ENGINEER. CURB, GUTTER OR COMBINED CURB AND GUTTER IS CONSTRUCTED ADJACENT TO A FLEXIBLE BASE PAVEMENT, 1" THICK EXPANSION JOINTS COMPOSED OF BITUMINOUS PREFORMED JOINT FILLER SHALL BE INSTALLED IN THE CURB AND/OR GUTTER AT POINTS OF CURVATURE AND AT CONSTRUCTION JOINTS. CONTRACTION JOINTS SHALL ALSO BE PLACED BETWEEN THESE EXPANSION JOINTS AT DISTANCES NOT EXCEEDING 20 FEET. ALL TIE BARS SHALL BE DEFORMED - ALL DOWEL BARS SHALL BE SMOOTH. ALL TIE BARS AND DOWEL BARS TO BE EPOXY COATED.

JOINTS IN CURB, COMBINED CURB AND GUTTER

THE COST OF ALL JOINTS, INCLUDING LABOR, FURNISH AND PLACING OF STEEL, JOINT FILLER, SEALANT, AND ALL OTHER INCIDENTALS SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CONCRETE CURB, TYPE B (SPECIAL) (CDOT), AND COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) ITEMS. SAWCUTTING AND FURNISHING AND INSTALLING CURB ANCHORS, DOWELS, AND TIE BARS SHALL ALSO BE INCIDENTAL TO THESE ITEMS.

NOTE:

- H = VARIABLE, MINIMUM 3" AND NOT TO EXCEED 9" (SEE PLANS)
- X = THICKNESS OF PAVEMENT
- Y = ONE HALF THE THICKNESS OF CONCRETE PAVEMENT OR CONCRETE BASE
- Z = 10" OR THICKNESS OF PAVEMENT - WHICHEVER IS GREATER

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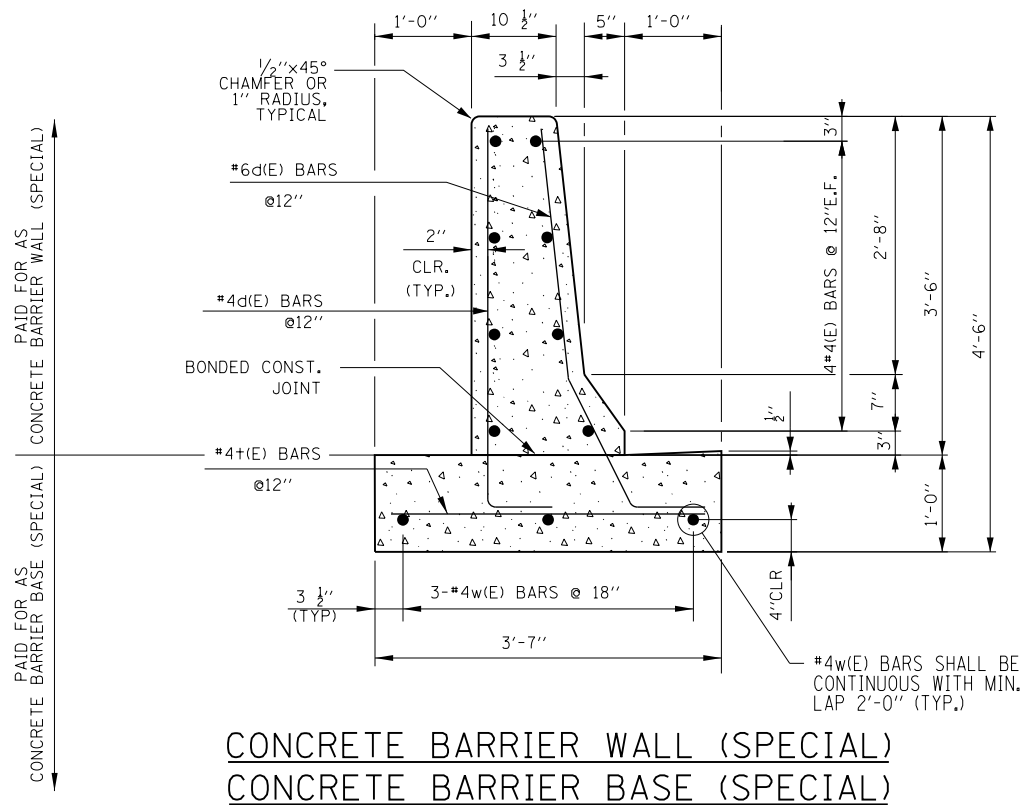
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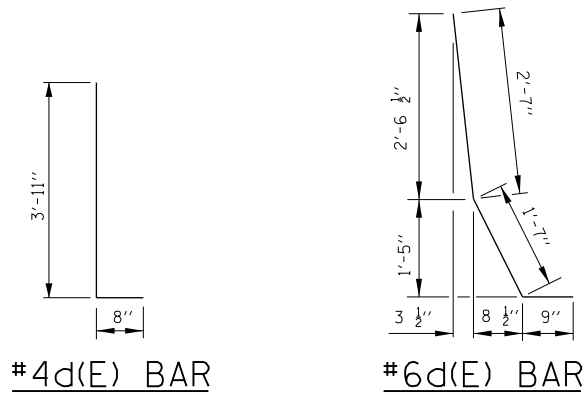
ROADWAY DETAILS			
COMBINATION CURB AND GUTTER TYPE B V.12 (CDOT) AND CONCRETE CURB, TYPE B (SPECIAL) (CDOT)			
SCALE: NONE	SHEET 1	OF 6 SHEETS	STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	397
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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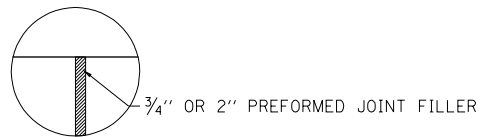
CONCRETE BARRIER WALL (SPECIAL)
CONCRETE BARRIER BASE (SPECIAL)



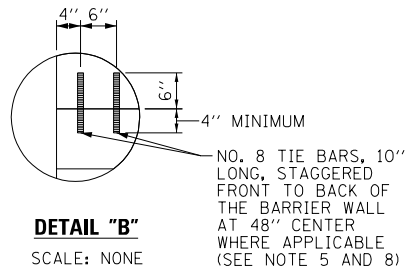
#4d(E) BAR
BENDING DIAGRAMS
#6d(E) BAR

NOTES:

1. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
2. 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
3. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
4. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
5. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES ", ACI 315, LATEST EDITION.
6. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
7. BARRIER SHALL BE USED WITH ALL NEW CONSTRUCTION, OR RECONSTRUCTION OF EXISTING BARRIERS.
8. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33.
9. ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
10. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF OF CONCRETE BARRIER WALL (SPECIAL) OR CONCRETE BARRIER TRANSITION (SPECIAL).
11. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
12. TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10" LONG, SHALL BE PLACED STAGGERED FRONT TO BACK OF THE BARRIER WALL AT 48" CENTERS ALONG THE CONCRETE BARRIER TRANSITION. TIE BARS SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION (SPECIAL).
13. HORIZONTAL TIE BARS SHALL BE NO. 6 EPOXY COATED, 24" LONG, 24" C-C AND SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER BASE (SPECIAL). HORIZONTAL TIE BARS ARE REQUIRED WHEN PAVEMENT IS PCC.
14. EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
15. VERTICAL TIE BARS ARE REQUIRED WHEN CONCRETE BARRIER AND CONCRETE BARRIER BASE ARE NOT POURED MONOLITHICALLY.



DETAIL "A"
SCALE: NONE



DETAIL "B"
SCALE: NONE



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

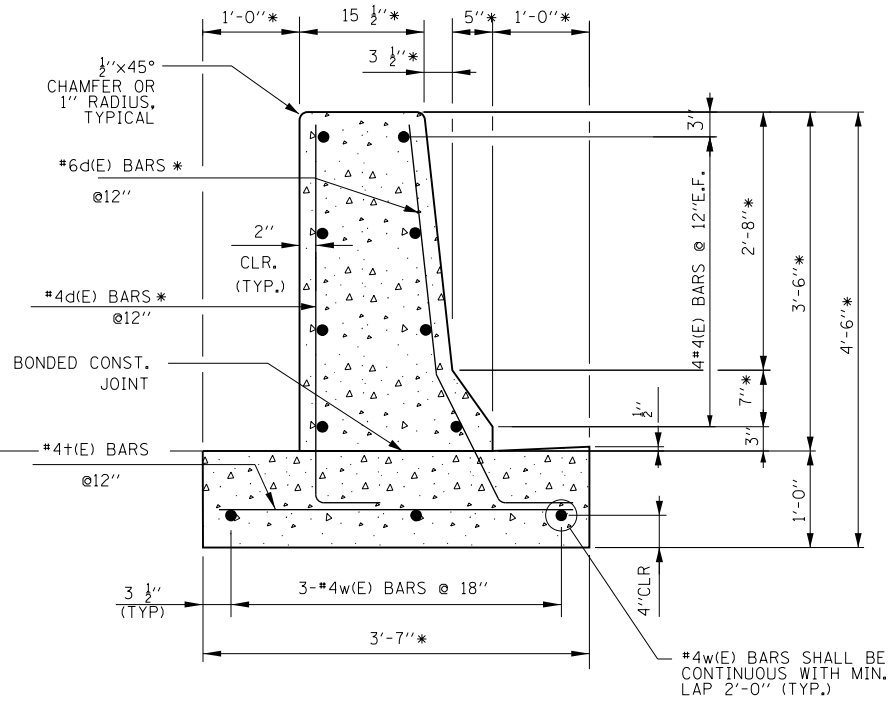
ROADWAY DETAILS

SCALE: N.T.S. SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94/290	2014-017B	COOK	442	398
CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

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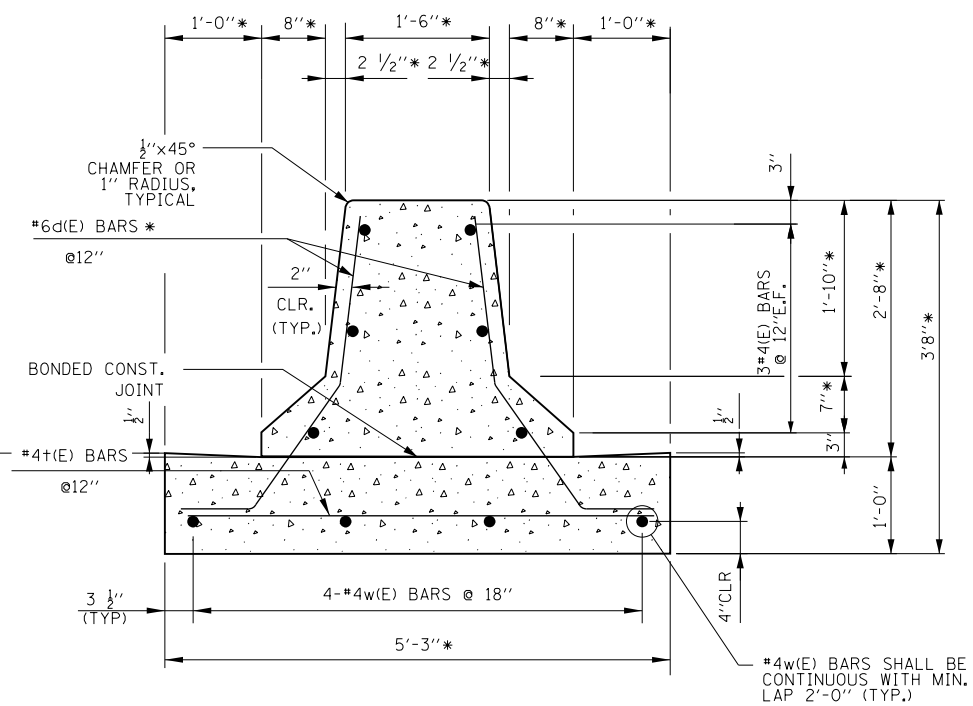
PAID FOR AS
CONCRETE BARRIER TRANSITION (SPECIAL)
CONCRETE BARRIER BASE (SPECIAL)



**CONCRETE BARRIER, TRANSITION (SPECIAL)
(EXISTING SINGLE FACE, 42 INCH HEIGHT)**

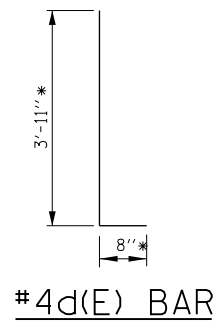
* DIMENSIONS VARY TO TIE TO PROPOSED

PAID FOR AS
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CONCRETE BARRIER BASE (SPECIAL)

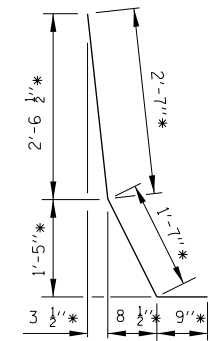


**CONCRETE BARRIER, TRANSITION (SPECIAL)
(EXISTING DOUBLE FACE, 32 INCH HEIGHT)**

* DIMENSIONS VARY TO TIE TO PROPOSED

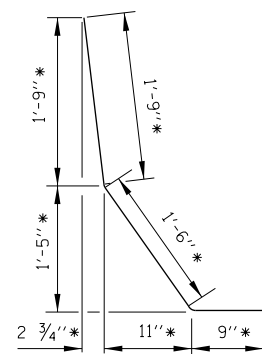


#4d(E) BAR



#6d(E) BAR

BENDING DIAGRAMS



#6d(E) BAR

BENDING DIAGRAMS

NOTES:

1. TOP SHOULDER EDGE OF BARRIER BASE GUTTER SHALL MATCH THE TOP OF SHOULDER ELEVATION.
2. 1" DEEP CONTRACTION JOINTS SHALL BE CONSTRUCTED IN BOTH THE REINFORCED CONCRETE BARRIER WALL AND BASE.
3. THE FORMING OF CONTRACTION JOINTS SHALL BE DONE WITH AN APPROVED FINISHING TOOL OR BY SAWING AT THE DISCRETION OF THE ENGINEER SUBJECT TO THE SATISFACTORY CONTROL OF CRACKING.
4. REINFORCING BARS DESIGNATED "(E)" SHALL BE EPOXY COATED.
5. REINFORCEMENT BENDING DETAILS SHALL BE IN ACCORDANCE WITH THE "MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES", ACI 315, LATEST EDITION.
6. REINFORCEMENT BAR BENDING DIMENSIONS ARE OUT TO OUT.
7. BARRIER SHALL BE USED WITH ALL NEW CONSTRUCTION, OR RECONSTRUCTION OF EXISTING BARRIERS.
8. EXPANSION JOINTS SHOWN ON THIS DRAWING SHALL BE PREFORMED JOINT MATERIAL (BITUMINOUS TYPE) FILLER AND SHALL MEET AASHTO DESIGNATION M-33.
9. ALL WORK AND MATERIALS DETAILED HEREIN SHALL BE INCLUDED IN THE COST OF THE VARIOUS CONCRETE BARRIER PAY ITEMS UNLESS OTHERWISE NOTED.
10. PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER WALL (SPECIAL) OR CONCRETE BARRIER TRANSITION (SPECIAL).
11. JOINTS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH ARTICLE 637.08 OF THE STANDARD SPECIFICATIONS
12. TWO VERTICAL EPOXY COATED, NO. 8 TIE BARS, 10" LONG, SHALL BE PLACED STAGGERED FRONT TO BACK OF THE BARRIER WALL AT 48" CENTERS ALONG THE CONCRETE BARRIER TRANSITION. TIE BARS SHALL BE INCLUDED IN THE COST OF CONCRETE BARRIER TRANSITION (SPECIAL).
13. HORIZONTAL TIE BARS SHALL BE NO. 6 EPOXY COATED, 24" LONG, 24" C-C AND SHALL BE INCLUDED IN THE COST OF THE CONCRETE BARRIER BASE (SPECIAL). HORIZONTAL TIE BARS ARE REQUIRED WHEN PAVEMENT IS PCC.
14. EXPANSION JOINTS SHALL BE CONSTRUCTED IN BARRIER WALL AT MAXIMUM JOINT SPACING OF 90 FEET.
15. VERTICAL TIE BARS ARE REQUIRED WHEN CONCRETE BARRIER AND CONCRETE BARRIER BASE ARE NOT POURED MONOLITHICALLY.



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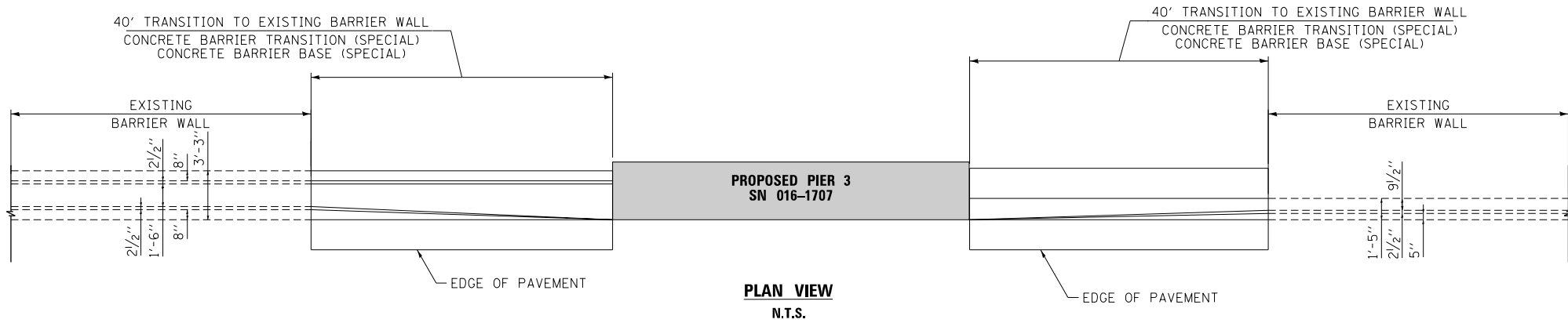
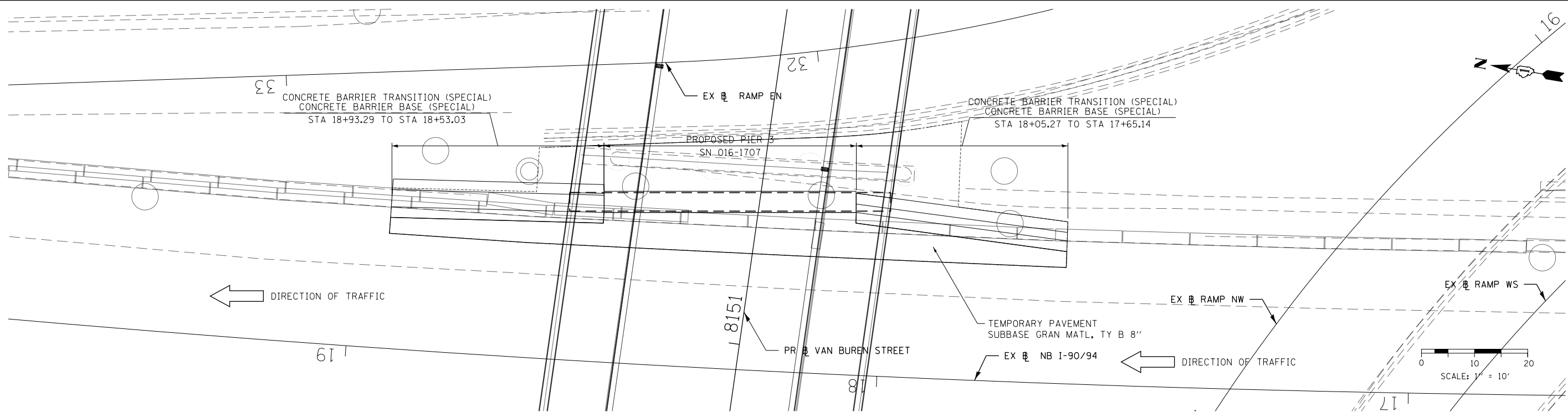
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ROADWAY DETAILS

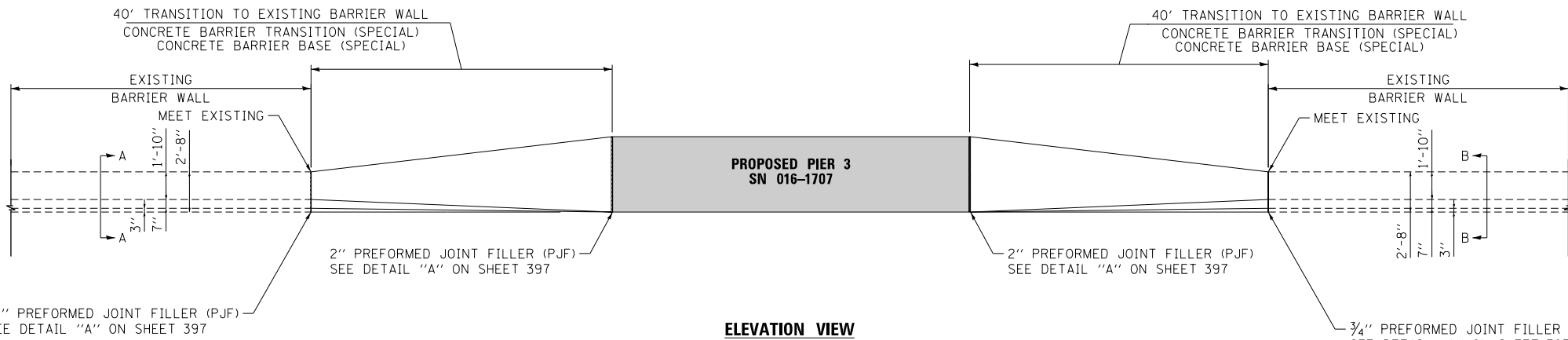
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 60X99			ILLINOIS FED. AID PROJECT	

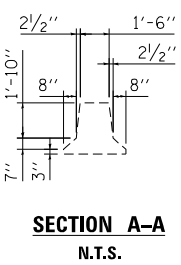
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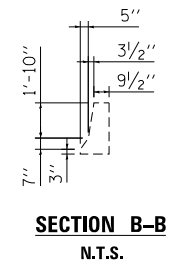
PLAN VIEW
N.T.S.



ELEVATION VIEW
N.T.S.



SECTION A-A
N.T.S.



SECTION B-B
N.T.S.



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STATE OF ILLINOIS
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ROADWAY DETAILS

SCALE: N.T.S. SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.I. RTE. 90/94/290	SECTION 2014-017B	COUNTY COOK	TOTAL SHEETS 442	SHEET NO. 400
CONTRACT NO. 60X99				
ILLINOIS FED. AID PROJECT				