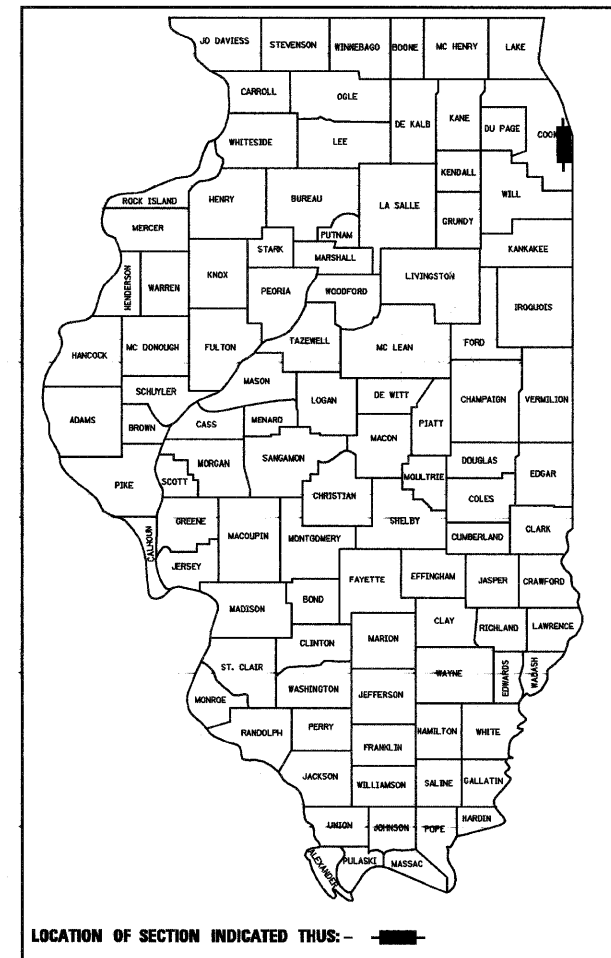


STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
FEDERAL AID HIGHWAY**

F.A.I. ROUTE 94 (DAN RYAN EXPRESSWAY)
SECTION (1818, 1919, 1919.15) I-11
INSTALLATION OF FLUTED KNEE WALL ALONG STATE
STREET FROM 71st STREET TO 63rd STREET
COOK COUNTY
C-91-241-05



INDEX OF SHEETS

SHEET	DESCRIPTION
1	COVER SHEET, INDEX OF SHEETS, LIST OF ILLINOIS DOT HIGHWAY STANDARDS
2	GENERAL NOTES AND PROJECT COMMITMENTS
3	SUMMARY OF QUANTITIES
4	EXISTING AND PROPOSED TYPICAL SECTIONS
5-15	ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS
16-21	EXISTING AND PROPOSED ROADWAY PLANS
22-23	ROADWAY DETAILS
24-34	CITY OF CHICAGO LIGHTING SHEETS
35-41	STRUCTURAL DETAILS
42	TC-10 DISTRICT 1, TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS
43	TC-17 DISTRICT 1, TRAFFIC CONTROL FOR SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
44	TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS
45	TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN

DESIGN NUMBER

D-91-241-05

IDOT HIGHWAY STANDARDS

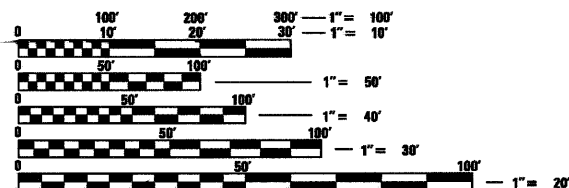
STANDARD	DESCRIPTION
000001-05	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
664001-02	CHAIN LINK FENCE
701601-06	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701701-06	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-04	LANE CLOSURE MULTILANE 1W OR 2W CROSSWALK OR SIDEWALK CLOSURE
701901-01	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-02	SIGN PANEL ERECTION DETAILS

PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

STATE ST: 1170 (20) URBAN COLLECTOR

DESIGN POSTED	SPEED	SPEED
STATE ST	30	25



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

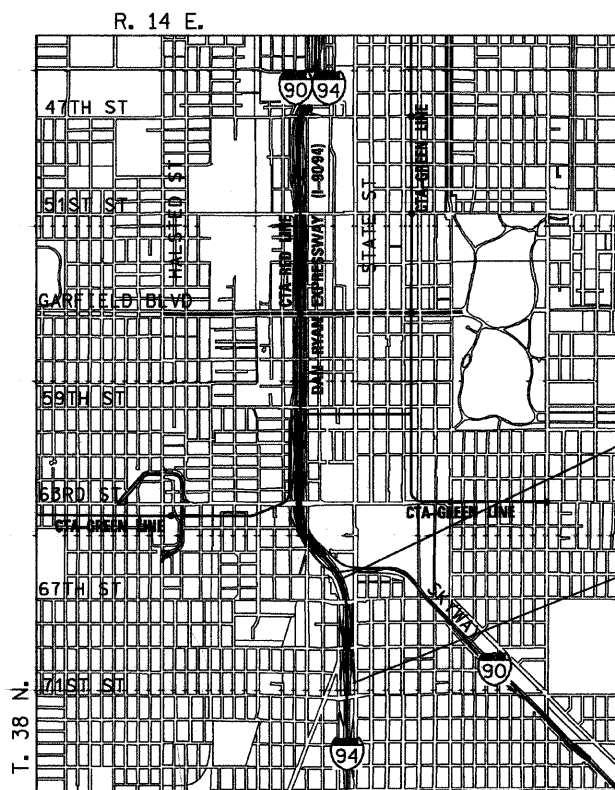
BEFORE EXCAVATING CALL:
CHICAGO UTILITY ALERT NETWORK
(312) 744-7000

CONTRACT NO. 62983

DISTRICT ONE DESIGN CONSULTANT SERVICES PROJECT MANAGER
RAJENDRA SHAH (847) 705-4555



Robert M. Goveia
ROBERT M. GOVEIA
4/30/2009 01/06/2009
EXPIRES DATE



PROJECT ENDS
S. STATE ST
STA 8008 + 16.45

PROJECT BEGINS
NB RAMP
STA 8198 + 56.30



LOCATION MAP
GROSS LENGTH OF PROJECT = 3,314 FT (0.628 MILES)
NET LENGTH OF PROJECT = 3,314 FT (0.628 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED JANUARY 8, 2009
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

June 26, 2009
Charles J. Ingersoll
ENGINEER OF DESIGN AND ENVIRONMENT

June 26, 2009
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



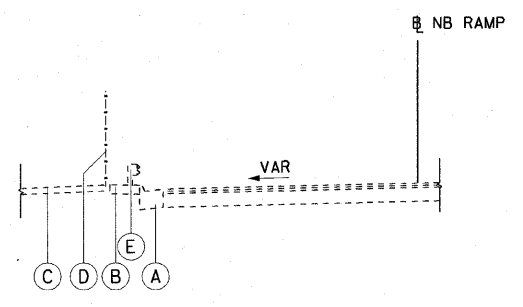
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	45	2
STA.	TO STA.			
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
•(1818, 1919, 1919.15)		1-11	62983	

GENERAL NOTES:

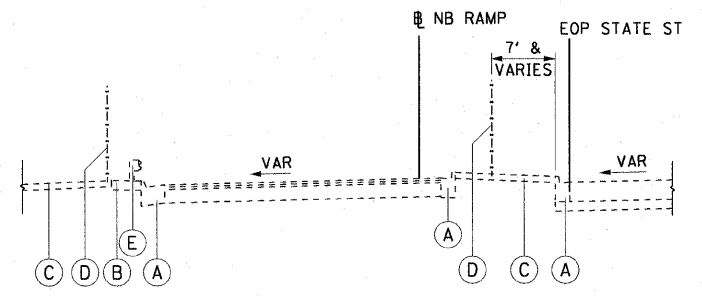
1. ALL WORK IN THIS CONTRACT SHALL BE COMPLETED WITHIN 35 WORKING DAYS.
2. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
3. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
4. THE CONTRACTOR SHALL TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
5. THIS CONTRACT DOES NOT INCLUDE QUANTITIES FOR THE PAY ITEMS "SOIL STABILIZERS" AND "APPLYING DUST SUPPRESSION AGENTS". IT HAS BEEN DETERMINED THAT THESE ITEMS ARE NOT NEEDED FOR THE WORK ASSOCIATED WITH THIS CONTRACT. IF THE ENGINEER DETERMINES THAT THIS WORK IS NECESSARY, PAYMENT SHALL BE MADE IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
6. THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:
 - CONTRACT 60A72 - NORTHBOUND ROADSIDE EMBANKMENT LANDSCAPING
 - CONTRACT 62583 - LIGHTING AND SURVEILLANCE 31ST ST TO I-57 INTERCHANGE
 - CONTRACT 60B88 - FENCING AND GATE INSTALLATION (71ST ST TO 63RD ST)
 - CONTRACT 60A77 - GATEWAY LANDSCAPING AND IRRIGATION AT 63RD STREET
 - CONTRACT 62593 - NORTHBOUND LANES 1-5, SHOULDER AND CTA BARRIER WALL (79TH TO 71ST STREET)
 - CONTRACT 60A62 - NORTHBOUND LOCAL LANES (63RD STREET TO GARFIELD BOULEVARD)
 - CONTRACT 62985 - INSTALLATION OF FLUTED KNEE WALL (63RD STREET TO 62ND STREET)
 - CONTRACT 60A03 - FENCING AND GATING INSTALLATION (63RD STREET TO 47TH STREET)
7. THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, RETAINING WALLS, AND DRAINAGE STRUCTURES BUILT IN CONTRACTS UNDER CONSTRUCTION DURING THE PREPARATION OF THESE PLANS IS BASED ON THE PUBLISHED CONTRACT PLAN DRAWINGS AVAILABLE DURING DESIGN. THE CONTRACTOR MUST FIELD VERIFY LIMITS, LOCATIONS, AND ELEVATIONS OF THESE PREVIOUSLY CONSTRUCTED ITEMS.
8. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER AND/OR AUTHORIZED SURVEYOR AGENT WILL WITNESS OR OTHERWISE REFERENCE AND RESET MONUMENTS AS NECESSARY. ALL PROPERTY CORNERS EXCEPT THOSE WITHIN AREAS WHERE THE SCHEDULE, IF PROVIDED, SHOWS PLACEMENT OF R.O.W. MARKERS SHALL REMAIN UNDISTURBED.
9. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS WHICH WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
10. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS FOR THE PROTECTION OF EXISTING PLANT MATERIAL FOR WHICH THE CONTRACT DOES NOT PROVIDE REMOVAL. THE PROTECTION OF EXISTING PLANT MATERIAL AND THE REPAIR OR REPLACEMENT OF EXISTING PLANT MATERIAL DAMAGED BY THE CONTRACTOR SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTION 201 OF THE STANDARD SPECIFICATIONS.
11. ALL RELOCATION OF EXISTING SIGNS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL CONFORM TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS. EXISTING SIGNS TO BE RELOCATED IN PROPOSED CONCRETE MEDIAN SURFACE SHALL BE INSTALLED USING A SLEEVE OR BY CORING THE CONCRETE MEDIAN SURFACE. THE SLEEVE AND CORING OPERATIONS SHALL BE AS DIRECTED AND APPROVED BY THE ENGINEER. THE SLEEVES AND CORING WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE CONCRETE MEDIAN SURFACE.
12. THE INTENT OF THE CONTRACT DOCUMENTS IS TO CONSTRUCT THE FLUTED KNEE WALL BEHIND THE EXISTING CURB AND GUTTER. ANY DAMAGE TO THE EXISTING CURB AND GUTTER SHALL BE REPAIRED TO THE ORIGINAL CONDITION OF THE CURB AND GUTTER BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
13. CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62589 AND CONTRACT 62590.
14. TRAFFIC CONTROL ALONG THE FRONTAGE ROADS AND RAMPS SHALL BE PAID FOR AS TRAFFIC CONTROL AND PROTECTION (SPECIAL).
15. THE CONTRACTOR SHALL PROTECT ALL BLUNT ENDS OF THE KNEE WALL FOR TRAFFIC SAFETY. ALL TEMPORARY PROTECTION DEVICES USED FOR THIS PURPOSE SHALL BE NCHRP 350 COMPLIANT AND AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL).
16. CHAIN LINK FENCE, 4' (SPECIAL) SHALL BE INSTALLED AT ALL LOCATIONS WHERE THE EXISTING CHAIN LINK FENCE IS REMOVED AS SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER.
17. THE CONTRACTOR MUST COORDINATE CONSTRUCTION ACTIVITIES WITH THE RESPECTIVE UTILITIES OF THE CITY OF CHICAGO. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR MUST CALL THE CHICAGO UTILITY ALERT NETWORK (C.U.A.N.) AT (312) 744-7000 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRICAL, TELEPHONE, CABLE AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED). THE CONTRACTOR MUST CONTACT THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT, PERMIT SECTION AT (312) 747-7893 FOR WATER AND CITY SEWER LOCATIONS.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)	
NAME	DATE	GENERAL NOTES AND PROJECT COMMITMENTS	
SCALE: NONE		DRAWN BY: NJH	
DATE: JANUARY 14, 2009		CHECKED BY: RMG	

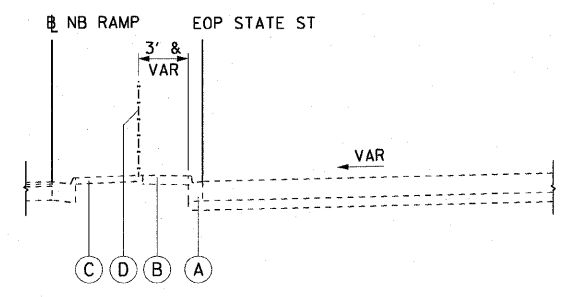




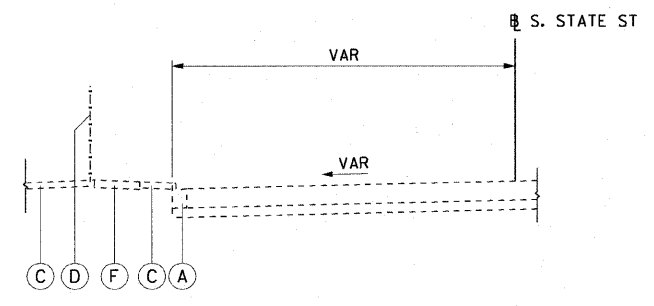
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NB RAMP
STA 8198+56.30 TO STA 8202+59.24



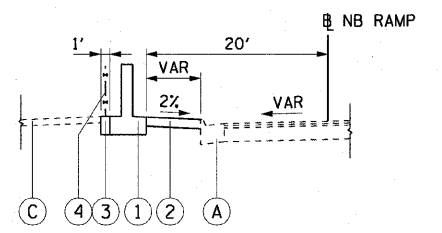
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S. STATE STREET
STA 8202+59.24 TO STA 8203+07.49



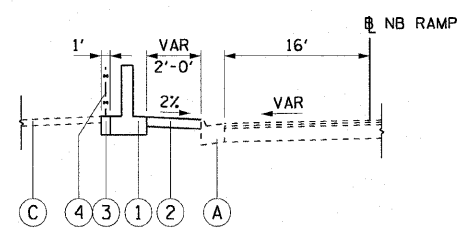
3 EX TYPICAL SECTION
S. STATE STREET
STA 8203+07.49 TO STA 8209+47.72
STA 8220+23.69 TO STA 8223+36.23



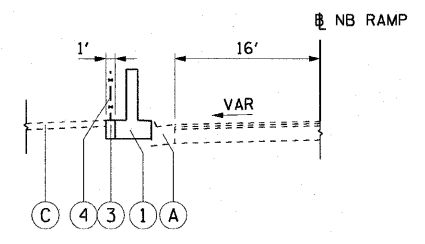
4 EX TYPICAL SECTION
S. STATE STREET
STA 8002+62.14 TO STA 8008+16.45



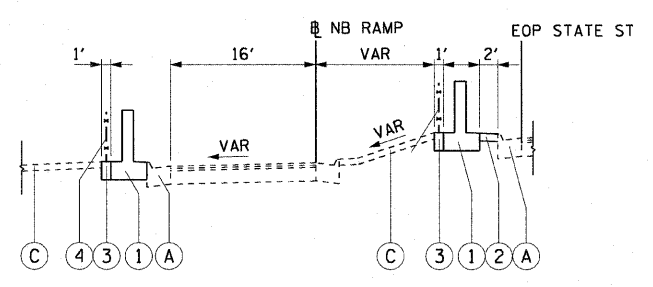
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STA 8198+56.30 TO STA 8199+91.75



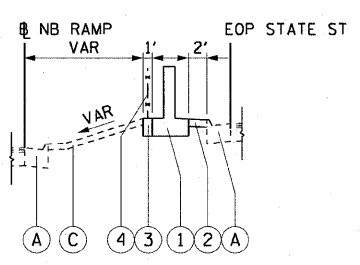
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NB RAMP
STA 8199+91.75 TO STA 8200+17.93



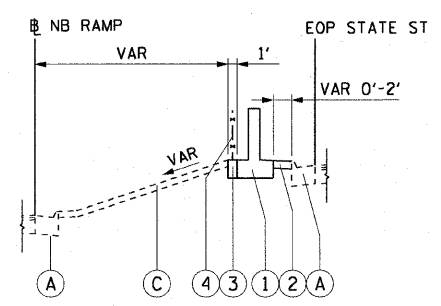
3 PR TYPICAL SECTION
NB RAMP
STA 8200+17.93 TO STA 8202+63.82



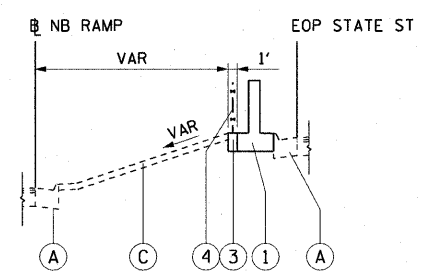
4 PR TYPICAL SECTION
NB RAMP
STA 8202+63.82 TO STA 8202+94.24



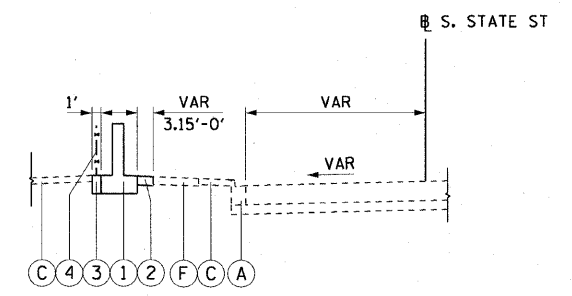
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NB RAMP
STA 8202+94.24 TO STA 8208+36.00



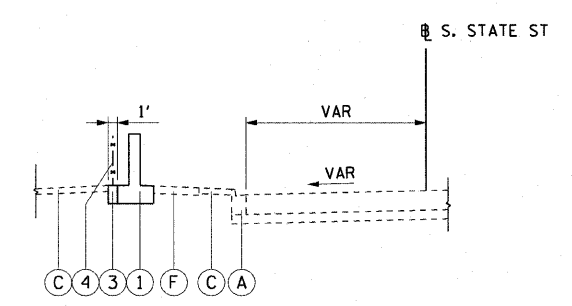
6 PR TYPICAL SECTION
NB RAMP
STA 8208+36.00 TO STA 8208+67.09



7 PR TYPICAL SECTION
NB RAMP
STA 8208+67.09 TO STA 8209+47.72
STA 8220+23.69 TO STA 8223+23.48



8 PR TYPICAL SECTION
S. STATE STREET
STA 8002+62.14 TO STA 8002+98.56



9 PR TYPICAL SECTION
S. STATE STREET
STA 8002+98.56 TO STA 8005+74.84
STA 8005+98.84 TO STA 8008+16.45

EXISTING LEGEND:

- (A) COMBINATION CONCRETE CURB AND GUTTER
- (B) PAVED SHOULDER
- (C) GRASS AREA
- (D) CHAIN LINK FENCE
- (E) GUARDRAIL
- (F) PCC SIDEWALK, 5"

PROPOSED LEGEND:

- 1 FLUTED KNEE WALL
- 2 CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
- 3 SEEDING CLASS 2A / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- 4 CHAIN LINK FENCE, 4' (SPECIAL)

NOTE:

- 1. EXISTING PAVEMENT INFORMATION TAKEN FROM DAN RYAN DESIGN PLANS OR RECORD DRAWINGS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: H:1"=10', V:1"=5'
DATE: JANUARY 14, 2009

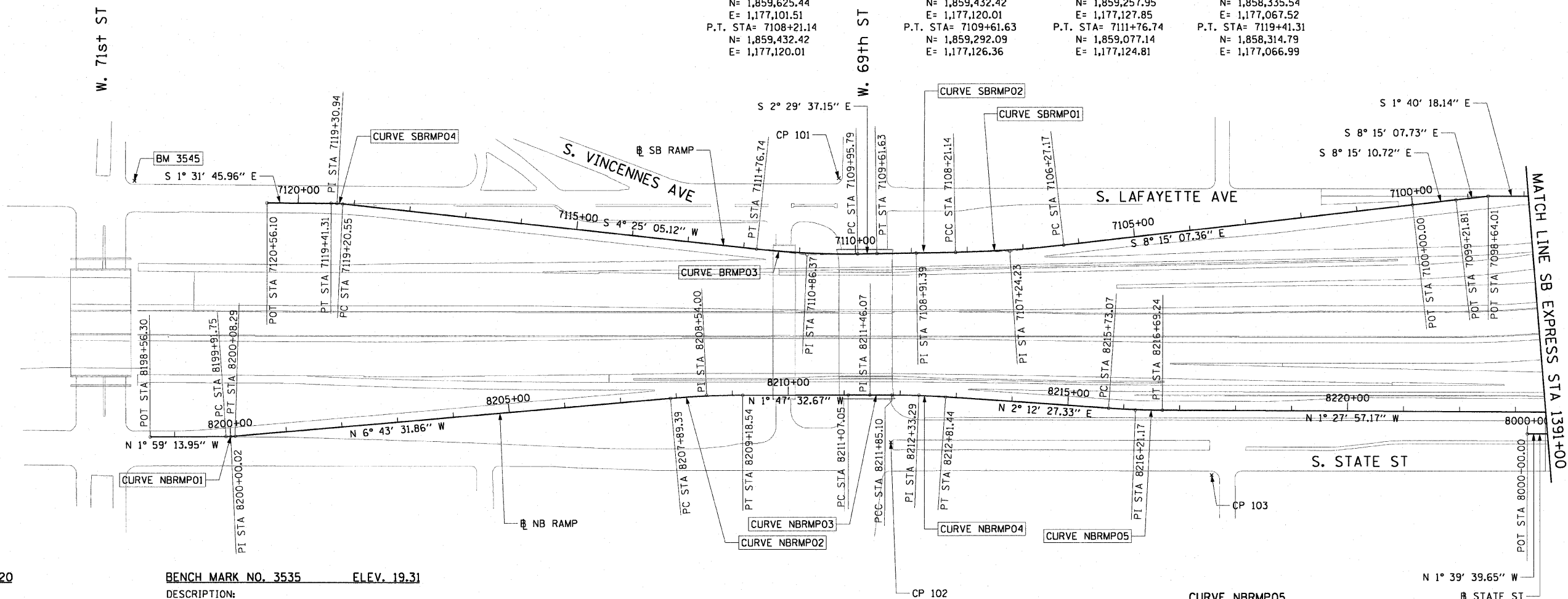
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CHECKED BY: RMG

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F.A.I. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	5
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
*1818, 1919, 1919.15		I-11		62983



CURVE SBRMPO1	CURVE SBRMPO2	CURVE SBRMPO3	CURVE SBRMPO4
P.I. STA= 7107+24.23 N= 1,859,529.38 E= 1,177,115.44 Δ= 5° 33' 25" D= 2° 51' 53" R= 2,000.00' T= 97.06' L= 193.98 E= 2.35' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7106+27.17 N= 1,859,625.44 E= 1,177,101.51 P.T. STA= 7108+21.14 N= 1,859,432.42 E= 1,177,120.01	P.I. STA= 7108+91.39 N= 1,859,362.26 E= 1,177,123.31 Δ= 0° 12' 05" D= 0° 08' 36" R= 39,975.44' T= 70.24' L= 140.48 E= 0.06' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7108+21.14 N= 1,859,432.42 E= 1,177,120.01 P.T. STA= 7109+61.63 N= 1,859,292.09 E= 1,177,126.36	P.I. STA= 7110+86.37 N= 1,859,167.46 E= 1,177,131.79 Δ= 6° 54' 42" D= 3° 49' 11" R= 1,500.00' T= 90.58' L= 180.95 E= 2.73' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7109+95.79 N= 1,859,257.95 E= 1,177,127.85 P.T. STA= 7111+76.74 N= 1,859,077.14 E= 1,177,124.81	P.I. STA= 7119+30.94 N= 1,858,325.18 E= 1,177,066.71 Δ= 5° 56' 51" D= 28° 38' 52" R= 200.00' T= 10.39' L= 20.76 E= 0.27' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7119+20.55 N= 1,858,335.54 E= 1,177,067.52 P.T. STA= 7119+41.31 N= 1,858,314.79 E= 1,177,066.99



BENCH MARK NO. 3528	ELEV. 16.20
DESCRIPTION: CROSS CUT ON NORTHWESTERLY BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 45TH ST AND WENTWORTH AVE	
BENCH MARK NO. 3530	ELEV. 18.18
DESCRIPTION: CROSS CUT ON SOUTHEAST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 51ST ST AND WELLS ST	
BENCH MARK NO. 3531	ELEV. 17.55
DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF GARFIELD BLVD AND WELLS ST	
BENCH MARK NO. 3532	ELEV. 18.84
DESCRIPTION: HORIZONTAL BOLT ON CTA "EL" STRUCTURE, EAST SIDE OF WELLS ST ABOUT 50 FEET NORTH OF 59TH PL.	
BENCH MARK NO. 3533	ELEV. 19.71
DESCRIPTION: BRASS DISK (CTA MONUMENT) AT THE SOUTHWEST CORNER OF 63RD ST AND HARVARD ST	

BENCH MARK NO. 3535	ELEV. 19.31
DESCRIPTION: FOUND CROSS CUT ON SOUTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 59TH ST AND WENTWORTH AVE	
BENCH MARK NO. 3536	ELEV. 18.37
DESCRIPTION: CROSS CUT ON SOUTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE SOUTHEAST CORNER OF GARFIELD BLVD AND WENTWORTH AVE	
BENCH MARK NO. 3537	ELEV. 17.71
DESCRIPTION: CROSS CUT ON NORTHEASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 51ST ST AND WENTWORTH AVE	
BENCH MARK NO. 3538	ELEV. 17.31
DESCRIPTION: CROSS CUT ON EASTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHEAST CORNER OF 47TH ST AND LASALLE ST	
BENCH MARK NO. 3544	ELEV. 19.38
DESCRIPTION: CROSS CUT ON WESTERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 67TH ST AND LAFAYETTE AVE	
BENCH MARK NO. 3545	ELEV. 10.53
DESCRIPTION: CROSS CUT ON NORTHWEST BOLT OF LIGHT POLE BASE AT THE NORTHWEST CORNER OF 71ST ST AND LAFAYETTE AVE	

CURVE NBRMPO1	CURVE NBRMPO2	CURVE NBRMPO3	CURVE NBRMPO4
P.I. STA= 8200+00.02 N= 1,858,147.27 E= 1,177,489.42 Δ= 4° 44' 18" D= 28° 38' 52" R= 200.00' T= 8.27' L= 16.54 E= 0.17' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8199+91.75 N= 1,858,139.01 E= 1,177,489.70 P.T. STA= 8200+08.29 N= 1,858,155.49 E= 1,177,488.45	P.I. STA= 8208+54.00 N= 1,858,995.39 E= 1,177,389.40 Δ= 4° 55' 59" D= 3° 49' 11" R= 1,500.00' T= 64.61' L= 129.15 E= 1.39' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8207+89.39 N= 1,858,931.22 E= 1,177,396.97 P.T. STA= 8209+18.54 N= 1,859,059.97 E= 1,177,387.38	P.I. STA= 8211+46.07 N= 1,859,287.39 E= 1,177,380.27 Δ= 0° 19' 12" D= 0° 24' 36" R= 13,976.00' T= 39.03' L= 78.05 E= 0.05' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8211+07.05 N= 1,859,248.39 E= 1,177,381.49 P.T. STA= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26	P.I. STA= 8212+33.29 N= 1,859,374.58 E= 1,177,378.02 Δ= 3° 40' 48" D= 3° 49' 11" R= 1,500.00' T= 48.10' L= 96.34 E= 0.77' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8211+85.10 N= 1,859,326.41 E= 1,177,379.26 P.T. STA= 8212+81.44 N= 1,859,422.73 E= 1,177,379.88

CURVE NBRMPO5	
P.I. STA= 8216+21.17	N= 1,859,762.21
	E= 1,177,392.97
Δ= 3° 40' 25"	D= 3° 49' 11"
R= 1,500.00'	T= 48.10'
L= 96.17'	E= 0.77'
e= N/A	T.R.= N/A
S.E. RUN= N/A	P.C. STA= 8215+73.07
	N= 1,859,714.14
	E= 1,177,391.11
	P.T. STA= 8216+69.24
	N= 1,859,810.29
	E= 1,177,391.74

NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

ALIGNMENT PLAN

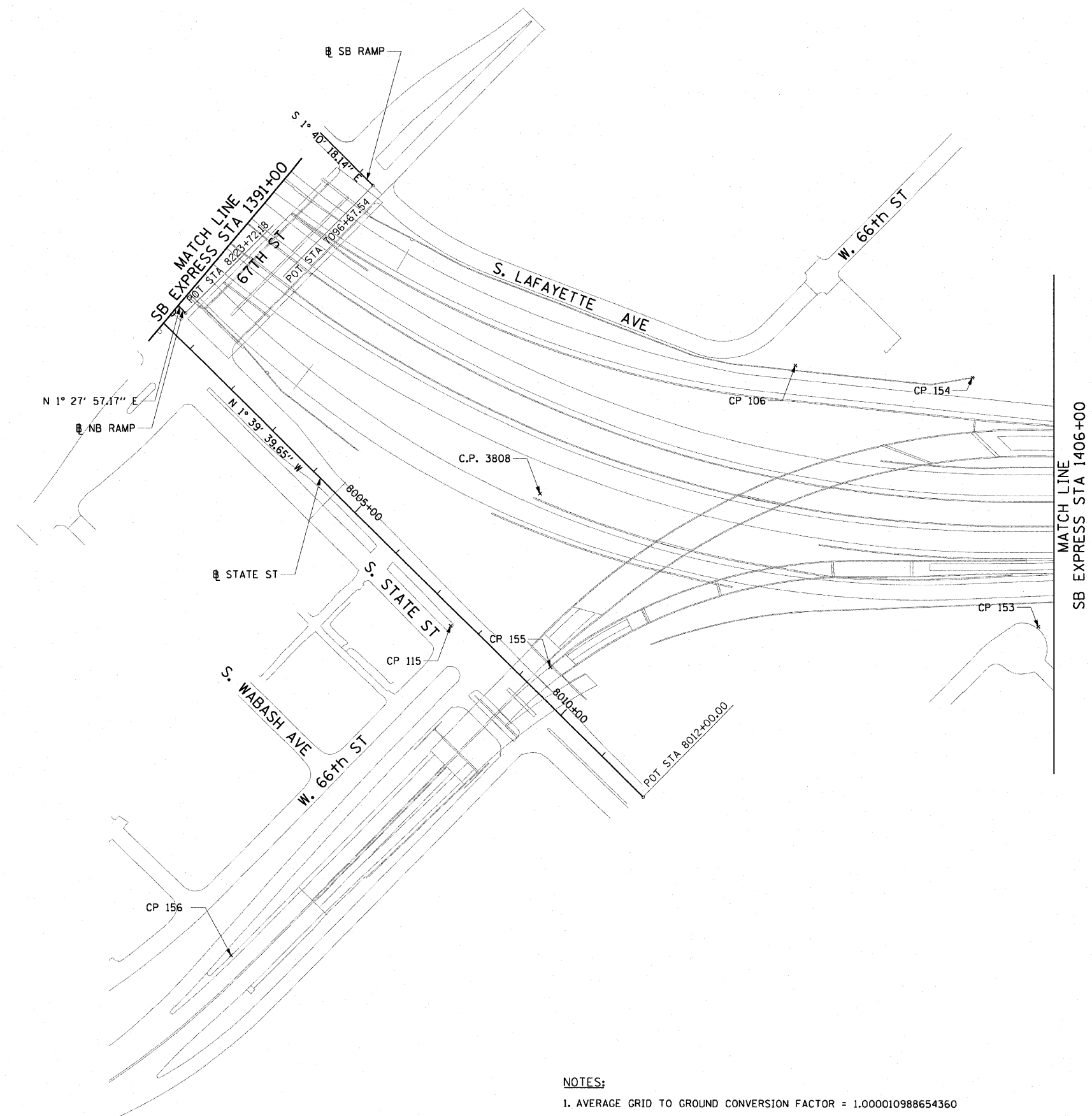
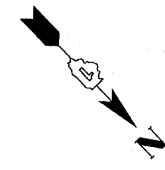
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DATE: JANUARY 14, 2009

DRAWN BY: NJH/AMM
CHECKED BY: JAL/MS



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	6
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
*(1818, 1919, 1919.15)		I-11	62983	



- NOTES:**
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

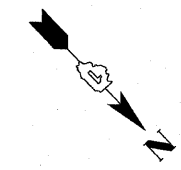
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

ALIGNMENT PLAN

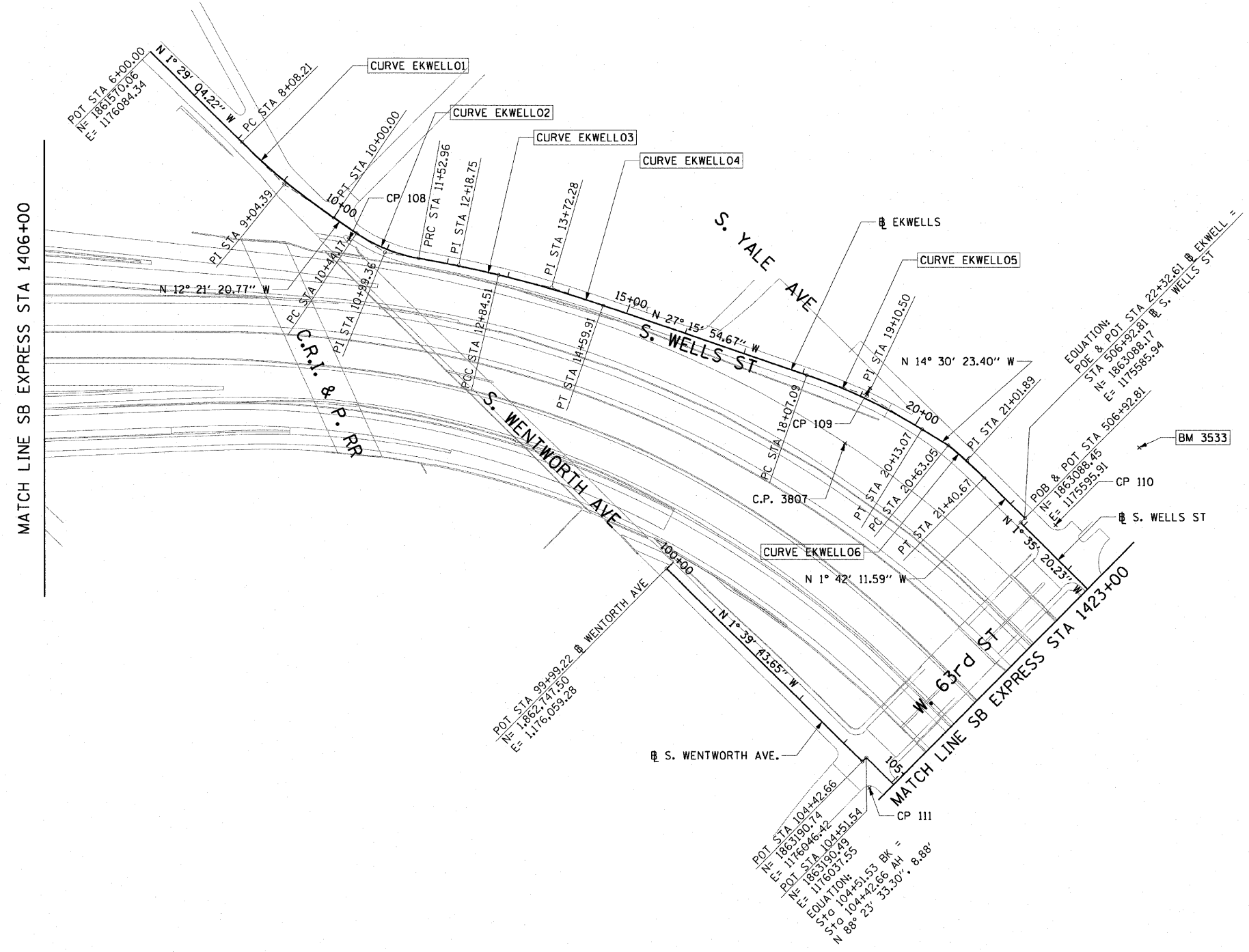
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 DATE: JANUARY 14, 2009

DRAWN BY: NJH/AMM
 CHECKED BY: JAL/MS

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CURVE EKWELLO1 P.I. STA= 9+04.39 N= 1,861,874.35 E= 1,176,076.45 Δ = 10° 52' 16" D= 5° 40' 05" R= 1,010.83' T= 96.18' L= 191.79' E= 4.56' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8+08.21 N= 1,861,778.19 E= 1,176,078.94 P.T. STA= 10+00.00 N= 1,861,968.30 E= 1,176,055.87	CURVE EKWELLO2 P.I. STA= 10+99.36 N= 1,862,065.35 E= 1,176,034.61 Δ = 23° 41' 58" D= 21° 47' 07" R= 263.00' T= 55.18' L= 108.78' E= 4.56' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 10+44.17 N= 1,862,011.45 E= 1,176,002.13 P.T. STA= 11+52.96 N= 1,862,109.97 E= 1,176,002.13
CURVE EKWELLO3 P.I. STA= 12+18.75 N= 1,862,163.15 E= 1,175,963.41 Δ = 2° 58' 46" D= 2° 15' 54" R= 2,529.60' T= 65.78' L= 131.54' E= 0.85' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 11+52.96 N= 1,862,109.97 E= 1,176,002.13 P.T. STA= 12+84.51 N= 1,862,218.28 E= 1,175,927.50	CURVE EKWELLO4 P.I. STA= 13+72.28 N= 1,862,291.83 E= 1,175,879.60 Δ = 5° 48' 38" D= 3° 18' 45" R= 1,729.58' T= 87.77' L= 175.40' E= 2.22' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 12+84.51 N= 1,862,218.28 E= 1,175,927.50 P.T. STA= 14+59.61 N= 1,862,369.86 E= 1,175,839.39
CURVE EKWELLO5 P.I. STA= 19+10.50 N= 1,862,770.39 E= 1,175,632.97 Δ = 12° 45' 31" D= 6° 11' 38" R= 925.00' T= 103.41' L= 205.97' E= 5.76' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 18+07.09 N= 1,862,678.46 E= 1,175,680.34 P.T. STA= 20+13.07 N= 1,862,870.51 E= 1,175,607.06	CURVE EKWELLO6 P.I. STA= 21+01.89 N= 1,862,957.45 E= 1,175,589.82 Δ = 5° 16' 59" D= 6° 48' 23" R= 841.78' T= 38.83' L= 77.62' E= 0.89' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 20+63.05 N= 1,862,918.90 E= 1,175,594.54 P.T. STA= 21+40.67 N= 1,862,996.27 E= 1,175,588.66



- NOTES:**
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

ALIGNMENT PLAN

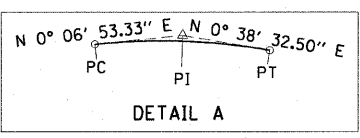
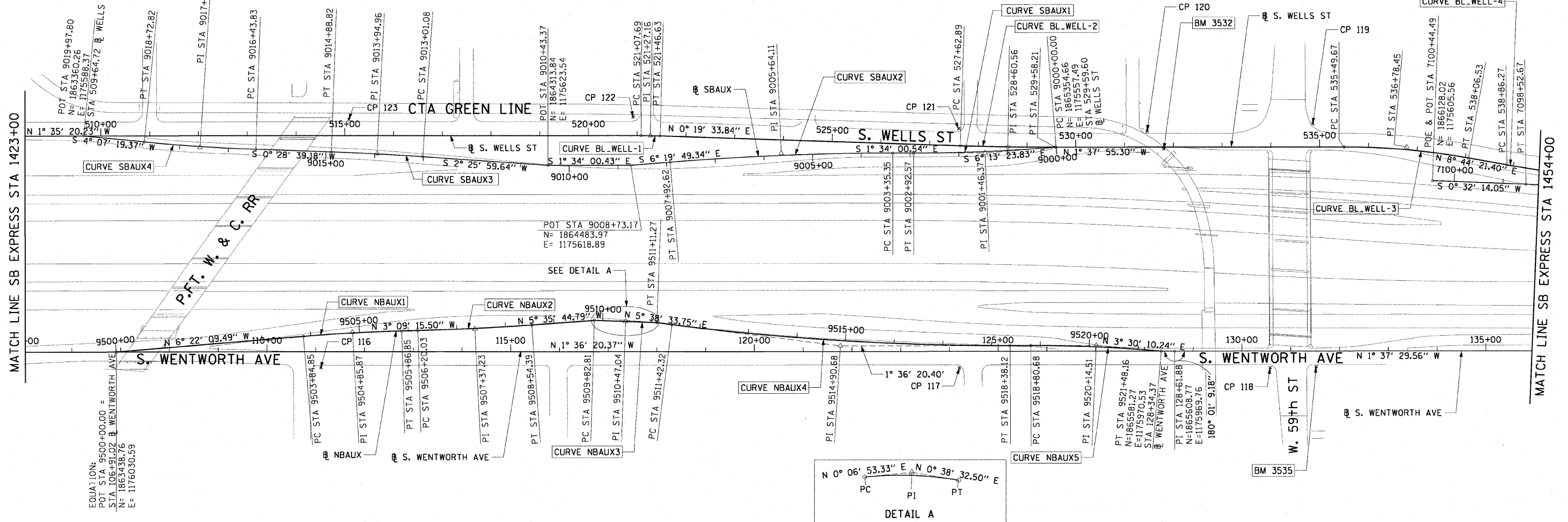
SCALE: 1"=100'
 DATE: JANUARY 14, 2009

DRAWN BY: NJH
 CHECKED BY: RMG



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 1/13/2009 11:09:29 AM

CURVE SBAUX1	CURVE SBAUX2	CURVE SBAUX3	CURVE SBAUX4
P.I. STA= 9001+46.37 N= 1,865,209.16 E= 1,175,573.36 Δ= 4° 39' 23" D= 1° 35' 30" R= 3600.00' T= 146.37' L= 292.57' E= 2.97' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9000+00.00 N= 1,865,354.66 E= 1,175,557.49 P.T. STA= 9002+92.57 N= 1,865,062.84 E= 1,175,577.36	P.I. STA= 9005+64.11 N= 1,864,791.41 E= 1,175,584.78 Δ= 4° 45' 49" D= 1° 02' 30" R= 5500.00' T= 228.77' L= 457.27' E= 4.76' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9003+35.35 N= 1,865,020.09 E= 1,175,578.53 P.T. STA= 9007+92.62 N= 1,864,564.03 E= 1,175,610.01	P.I. STA= 9013+94.96 N= 1,863,962.56 E= 1,175,608.62 Δ= 1° 57' 20" D= 1° 02' 30" R= 5500.00' T= 93.88' L= 187.72' E= 0.80' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9013+01.08 N= 1,864,056.35 E= 1,175,612.60 P.T. STA= 9014+88.82 N= 1,863,868.69 E= 1,175,607.83	P.I. STA= 9017+58.36 N= 1,863,599.16 E= 1,175,605.59 Δ= 3° 38' 40" D= 1° 35' 30" R= 3600.00' T= 114.53' L= 228.99' E= 1.82' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9016+43.83 N= 1,863,713.69 E= 1,175,606.54 P.T. STA= 9018+72.82 N= 1,863,484.92 E= 1,175,597.35



CURVE NBAUX1	CURVE NBAUX2	CURVE NBAUX3	CURVE NBAUX4	CURVE NBAUX5	CURVE BL_WELL-1	CURVE BL_WELL-2	CURVE BL_WELL-3
P.I. STA= 9504+85.87 N= 1,863,921.64 E= 1,175,976.69 Δ= 3° 12' 54" D= 1° 35' 30" R= 3600.00' T= 101.03' L= 202.00' E= 1.42' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9503+84.85 N= 1,863,821.23 E= 1,175,987.89 P.T. STA= 9505+86.85 N= 1,864,022.51 E= 1,175,971.13	P.I. STA= 9507+37.23 N= 1,864,172.66 E= 1,175,962.85 Δ= 2° 26' 29" D= 1° 02' 30" R= 5500.00' T= 117.20' L= 234.36' E= 1.25' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9506+20.03 N= 1,864,055.64 E= 1,175,969.30 P.T. STA= 9508+54.39 N= 1,864,289.30 E= 1,175,951.42	P.I. STA= 9510+47.04 N= 1,864,481.34 E= 1,175,939.03 Δ= 0° 31' 39" D= 0° 24' 38" R= 13952.00' T= 64.23' L= 128.46' E= 0.15' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9509+82.81 N= 1,864,417.11 E= 1,175,938.90 P.T. STA= 9511+11.27 N= 1,864,545.57 E= 1,175,939.75	P.I. STA= 9514+90.68 N= 1,864,923.14 E= 1,175,977.06 Δ= 7° 14' 54" D= 1° 02' 30" R= 5500.00' T= 348.36' L= 695.79' E= 11.02' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 9511+42.32 N= 1,864,576.47 E= 1,175,942.80 P.T. STA= 9518+38.12 N= 1,865,271.36 E= 1,175,967.30	P.I. STA= 9520+14.51 N= 1,865,447.69 E= 1,175,962.35 Δ= 5° 06' 31" D= 1° 54' 35" R= 3000.00' T= 133.83' L= 267.48' E= 2.98' e= N/A T.R.= 11' (0') S.E. RUN= 66' (0') P.C. STA= 9518+80.68 N= 1,865,313.91 E= 1,175,966.10 P.T. STA= 9521+48.16 N= 1,865,581.27 E= 1,175,970.53	P.I. STA= 521+27.16 N= 1,864,522.25 E= 1,175,556.14 Δ= 1° 54' 54" D= 4° 55' 05" R= 1165.00' T= 19.47' L= 38.94' E= 0.16' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 521+07.69 N= 1,864,502.79 E= 1,175,556.68 P.T. STA= 521+46.63 N= 1,864,541.72 E= 1,175,556.25	P.I. STA= 528+60.56 N= 1,865,255.64 E= 1,175,560.31 Δ= 1° 57' 29" D= 1° 00' 09" R= 5715.00' T= 97.67' L= 195.31' E= 0.83' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 527+62.89 N= 1,865,157.98 E= 1,175,559.75 P.T. STA= 529+58.21 N= 1,865,353.27 E= 1,175,557.53	P.I. STA= 536+78.45 N= 1,866,073.22 E= 1,175,537.02 Δ= 10° 22' 17" D= 4° 02' 16" R= 1419.00' T= 128.78' L= 256.86' E= 5.83' e= N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 535+49.67 N= 1,865,944.49 E= 1,175,540.68 P.T. STA= 538+06.53 N= 1,866,200.51 E= 1,175,556.58

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

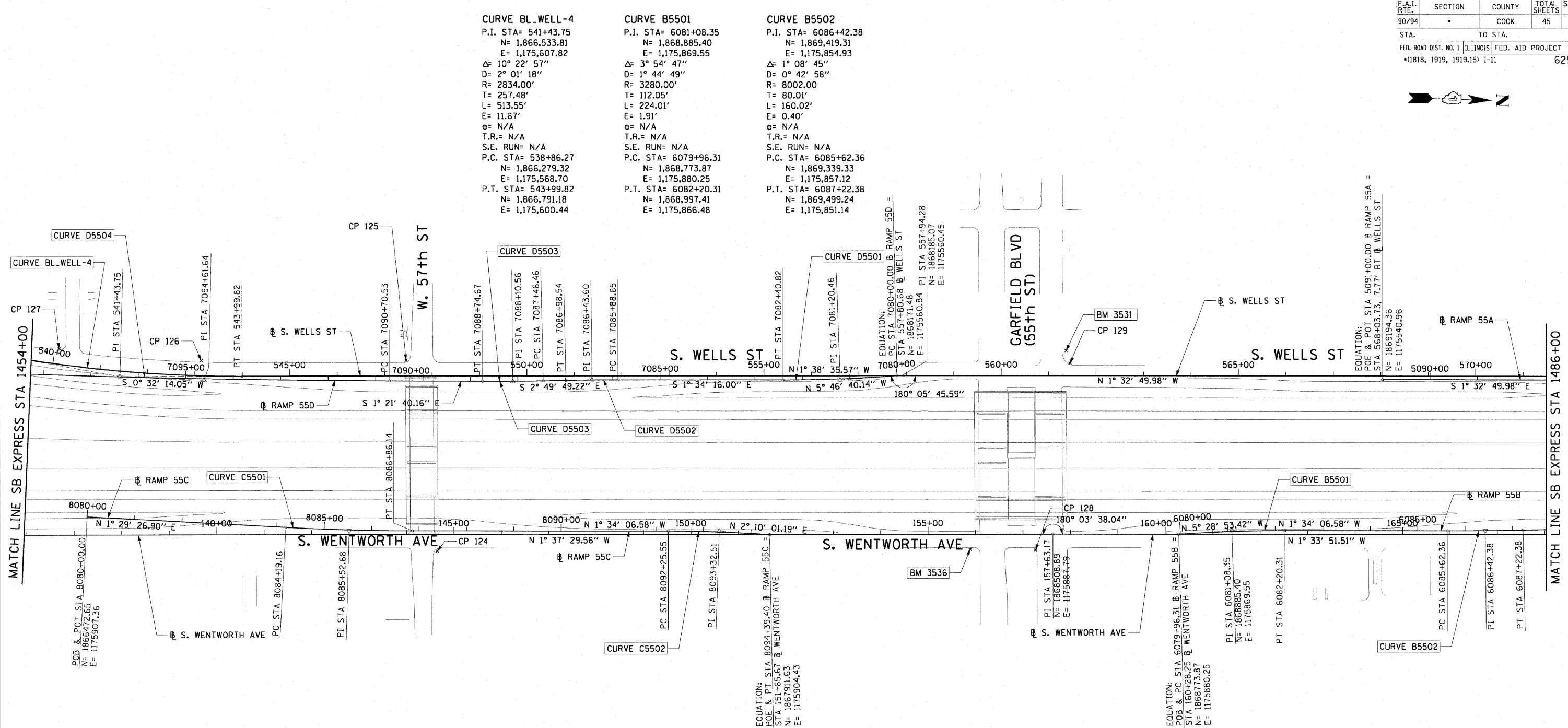
ALIGNMENT PLAN

SCALE: 1"=100'
 DATE: JANUARY 14, 2009
 DRAWN BY: NJH
 CHECKED BY: RMG



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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
(1818, 1919, 1919.15)		I-11		62983



CURVE BL_WELL-4
P.I. STA= 541+43.75
N= 1,866,533.81
E= 1,175,607.82
Δ= 10° 22' 57"
D= 2° 01' 18"
R= 2834.00'
T= 257.48'
L= 513.55'
E= 11.67'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 538+86.27
N= 1,866,279.32
E= 1,175,568.70
P.T. STA= 543+99.82
N= 1,866,791.18
E= 1,175,600.44

CURVE B5501
P.I. STA= 6081+08.35
N= 1,868,885.40
E= 1,175,869.55
Δ= 3° 54' 47"
D= 1° 44' 49"
R= 3280.00'
T= 112.05'
L= 224.01'
E= 1.91'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6079+96.31
N= 1,868,773.87
E= 1,175,880.25
P.T. STA= 6082+20.31
N= 1,868,997.41
E= 1,175,866.48

CURVE B5502
P.I. STA= 6086+42.38
N= 1,869,419.31
E= 1,175,854.93
Δ= 1° 08' 45"
D= 0° 42' 58"
R= 8002.00'
T= 80.01'
L= 160.02'
E= 0.40'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 6085+62.36
N= 1,869,339.33
E= 1,175,857.12
P.T. STA= 6087+22.38
N= 1,869,499.24
E= 1,175,851.14

CURVE C5501
P.I. STA= 8085+52.68
N= 1,867,025.15
E= 1,175,921.74
Δ= 3° 03' 33"
D= 1° 08' 45"
R= 5000.00'
T= 133.52'
L= 266.97'
E= 1.78'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8084+19.16
N= 1,866,891.67
E= 1,175,918.26
P.T. STA= 8086+86.14
N= 1,867,158.61
E= 1,175,918.08

CURVE C5502
P.I. STA= 8093+32.51
N= 1,867,804.75
E= 1,175,900.39
Δ= 3° 44' 08"
D= 1° 44' 49"
R= 3280.00'
T= 106.96'
L= 213.84'
E= 1.74'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 8092+25.55
N= 1,867,697.83
E= 1,175,903.32
P.T. STA= 8094+39.40
N= 1,867,911.63
E= 1,175,904.43

CURVE D5501
P.I. STA= 7081+20.46
N= 1,868,051.63
E= 1,175,572.97
Δ= 4° 12' 24"
D= 1° 44' 49"
R= 3280.00'
T= 120.46'
L= 240.82'
E= 2.21'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7080+00.00
N= 1,868,171.48
E= 1,175,560.84
P.T. STA= 7082+40.82
N= 1,867,931.21
E= 1,175,576.27

CURVE D5502
P.I. STA= 7086+43.60
N= 1,867,528.58
E= 1,175,587.31
Δ= 1° 15' 33"
D= 1° 08' 45"
R= 5000.00'
T= 54.95'
L= 109.89'
E= 0.30'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7085+88.65
N= 1,867,583.50
E= 1,175,585.81
P.T. STA= 7086+98.54
N= 1,867,473.70
E= 1,175,590.03

CURVE D5503
P.I. STA= 7088+10.56
N= 1,867,361.81
E= 1,175,595.56
Δ= 1° 28' 09"
D= 1° 08' 45"
R= 5000.00'
T= 64.11'
L= 128.21'
E= 0.41'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7087+46.46
N= 1,867,425.84
E= 1,175,592.39
P.T. STA= 7088+74.67
N= 1,867,297.72
E= 1,175,597.08

CURVE D5504
P.I. STA= 7094+61.64
N= 1,866,710.92
E= 1,175,611.02
Δ= 1° 53' 54"
D= 0° 14' 34"
R= 23606.00'
T= 391.11'
L= 782.14'
E= 3.24'
e= N/A
T.R.= N/A
S.E. RUN= N/A
P.C. STA= 7090+70.53
N= 1,867,101.91
E= 1,175,601.73
P.T. STA= 7098+52.67
N= 1,866,319.83
E= 1,175,607.36

- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG

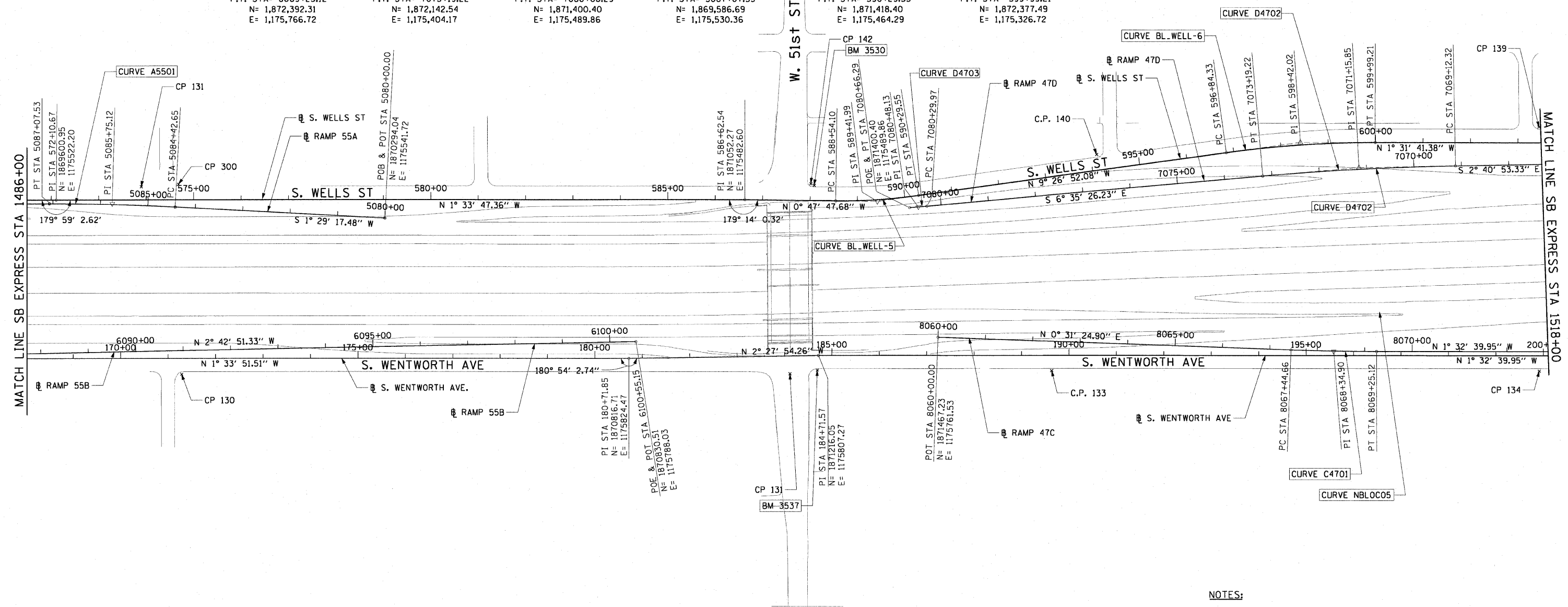
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F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 10
STA. 90/94		TO STA. 90/94		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
•(1818, 1919, 1919.15) I-11		62983		



CURVE C4701 P.I. STA= 8068+34.90 N= 1,872,302.10 E= 1,175,769.16 Δ = 2° 04' 05" D= 1° 08' 45" R= 5000.00' T= 90.24' L= 180.47' E= 0.81' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 8067+44.66 N= 1,872,211.86 E= 1,175,768.33 P.T. STA= 8069+25.12 N= 1,872,392.31 E= 1,175,766.72	CURVE D4702 P.I. STA= 7071+15.85 N= 1,872,344.72 E= 1,175,380.81 Δ = 3° 54' 33" D= 0° 57' 38" R= 5964.00' T= 203.53' L= 406.91' E= 3.47' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7069+12.32 N= 1,872,548.03 E= 1,175,371.29 P.T. STA= 7073+19.22 N= 1,872,142.54 E= 1,175,404.17	CURVE D4703 P.I. STA= 7080+48.13 N= 1,871,418.45 E= 1,175,487.83 Δ = 0° 11' 56" D= 0° 32' 51" R= 10464.00' T= 18.16' L= 36.32' E= 0.02' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 7080+29.97 N= 1,871,436.49 E= 1,175,485.75 P.T. STA= 7080+66.29 N= 1,871,400.40 E= 1,175,489.86	CURVE A5501 P.I. STA= 5085+75.12 N= 1,869,719.11 E= 1,175,526.79 Δ = 3° 02' 07" D= 1° 08' 45" R= 5000.00' T= 132.48' L= 264.89' E= 1.75' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 5084+42.65 N= 1,869,851.55 E= 1,175,530.23 P.T. STA= 5087+07.53 N= 1,869,586.69 E= 1,175,530.36	CURVE BL.WELL-5 P.I. STA= 589+41.99 N= 1,871,331.70 E= 1,175,478.71 Δ = 8° 39' 04" D= 4° 55' 51" R= 1162.00' T= 87.89' L= 175.45' E= 3.32' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 588+54.10 N= 1,871,243.82 E= 1,175,479.94 P.T. STA= 590+29.55 N= 1,871,418.40 E= 1,175,464.29	CURVE BL.WELL-6 P.I. STA= 598+42.02 N= 1,872,219.86 E= 1,175,330.92 Δ = 7° 55' 11" D= 2° 30' 55" R= 2278.00' T= 157.69' L= 314.87' E= 5.45' θ = N/A T.R.= N/A S.E. RUN= N/A P.C. STA= 596+84.33 N= 1,872,064.31 E= 1,175,356.80 P.T. STA= 599+99.21 N= 1,872,377.49 E= 1,175,326.72
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NOTES:

1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
2. FOR BENCH MARK INFORMATION, SEE SHEET 1 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

ALIGNMENT PLAN

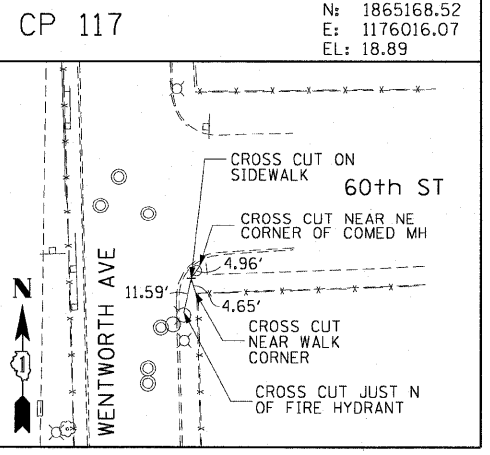
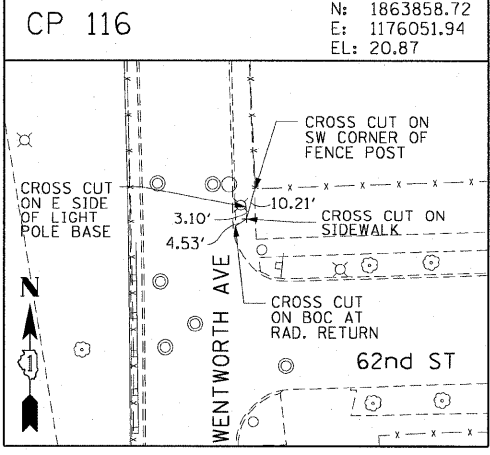
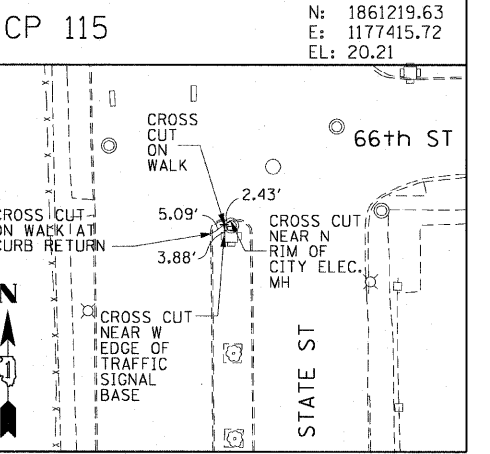
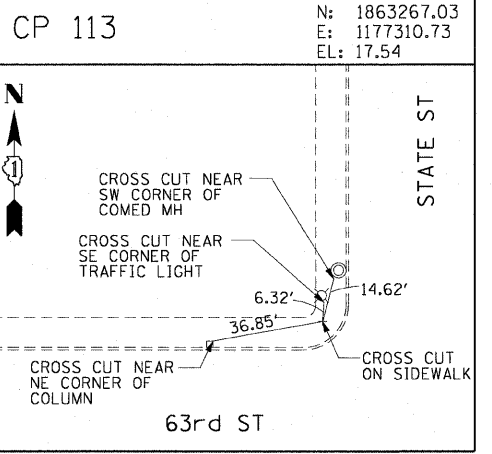
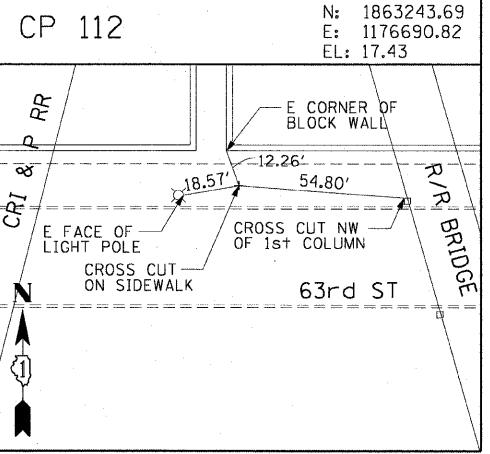
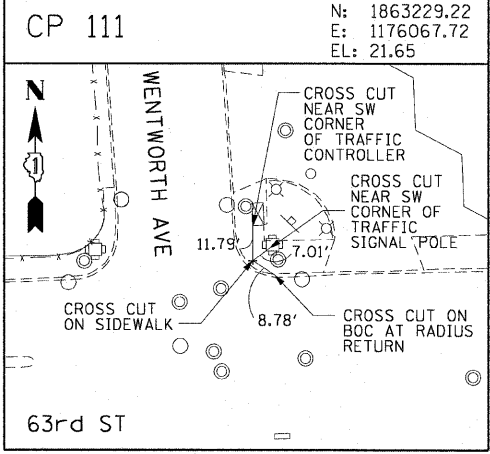
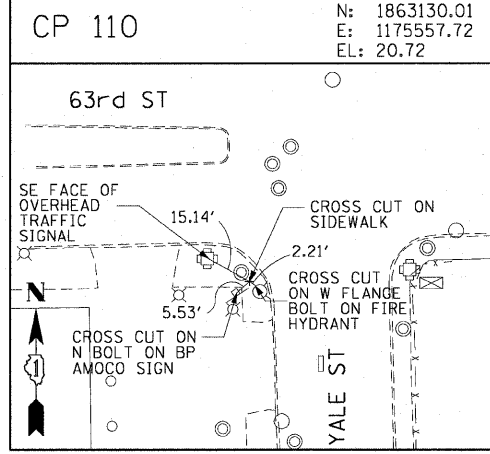
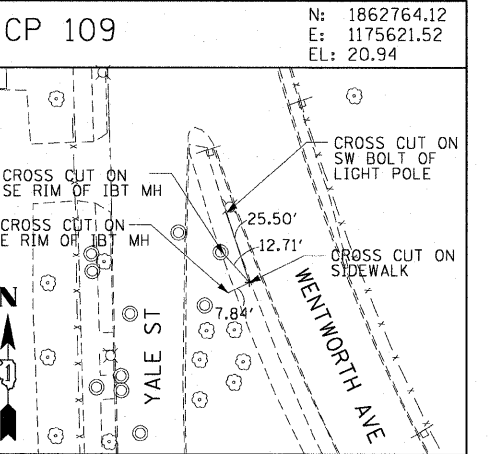
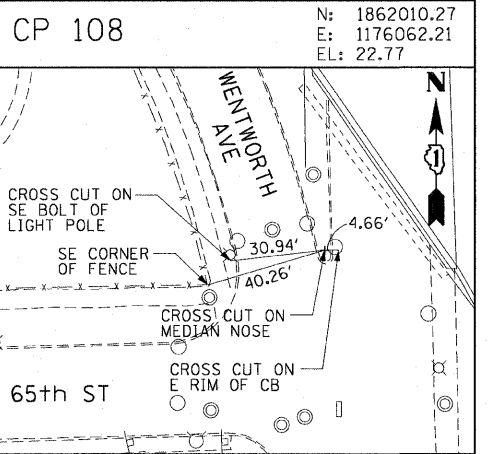
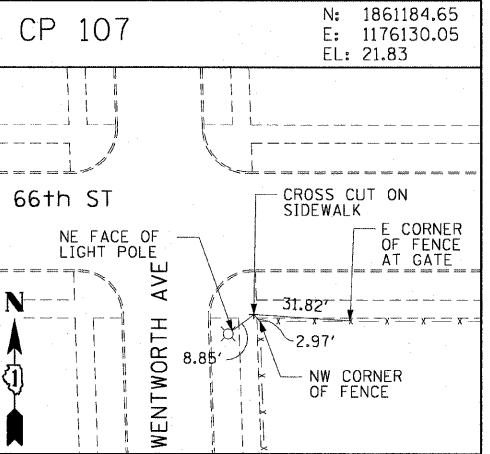
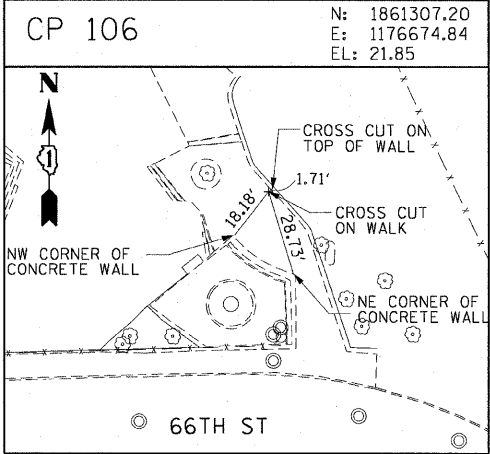
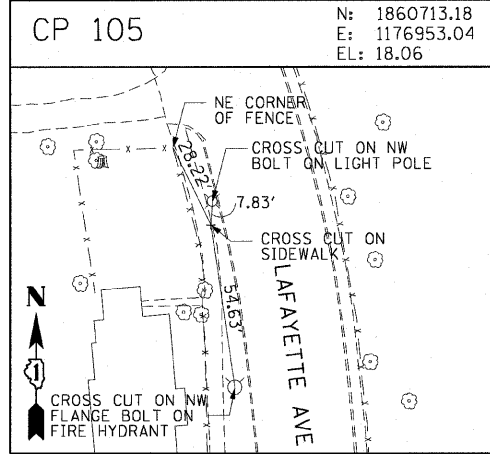
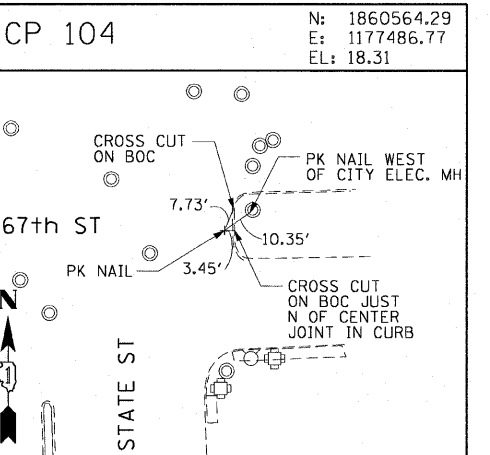
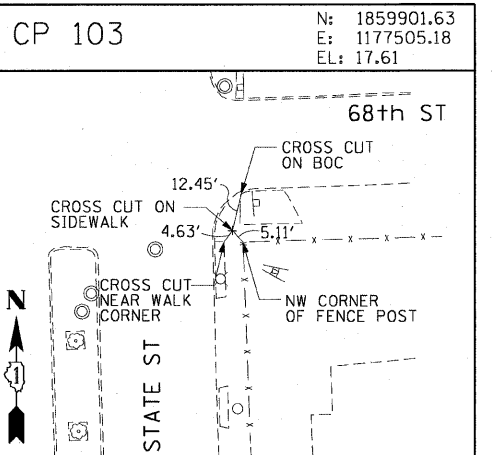
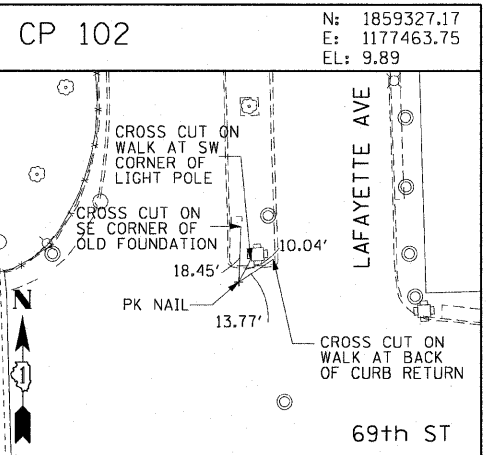
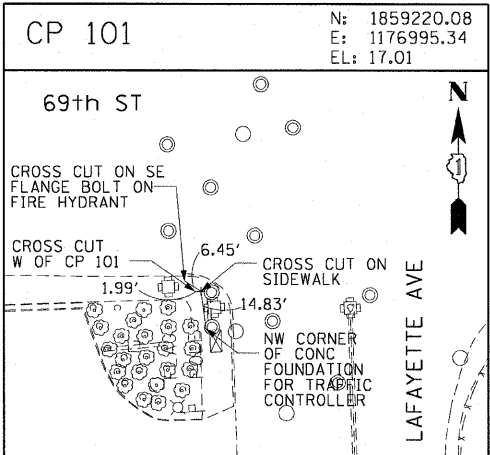
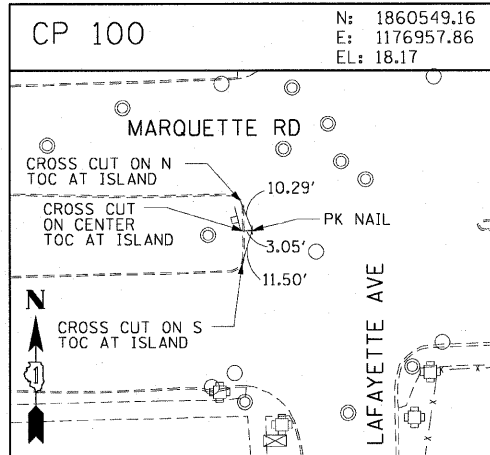
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 DATE: JANUARY 14, 2009

DRAWN BY: NJH
 CHECKED BY: RMG



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F.A.I. RTE. 90/94	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		COOK	45	12
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
•(1818, 1919, 1919.15)		1-11		62983



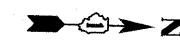
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REVISIONS	
NAME	DATE

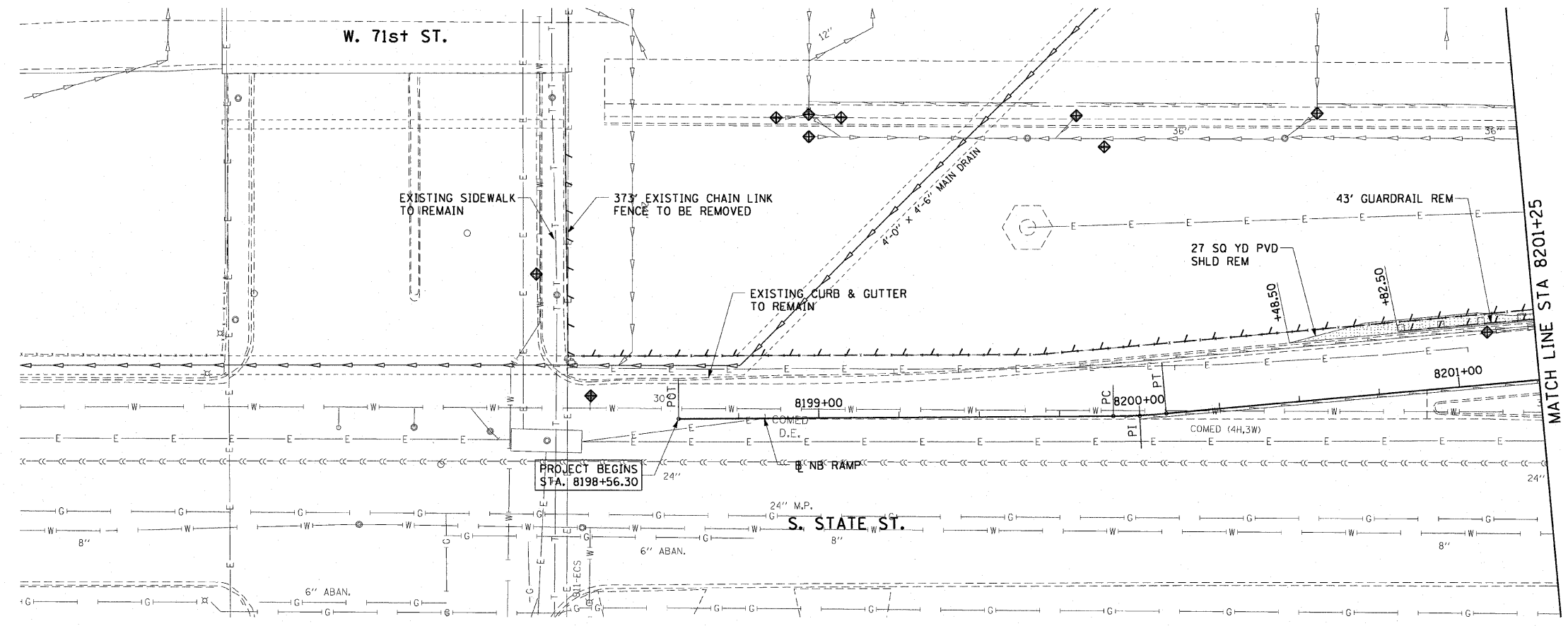
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
SURVEY TIES AND CONTROL POINTS
 SCALE: 1"=30'
 DATE: JANUARY 14, 2009
 DRAWN BY: MRK
 CHECKED BY: JAL

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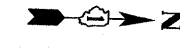
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90/94	*	COOK	45	16
STA. 8198+56.30 TO STA. 8201+00				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
•(1818, 1919, 1919.15) I-11				
				62983



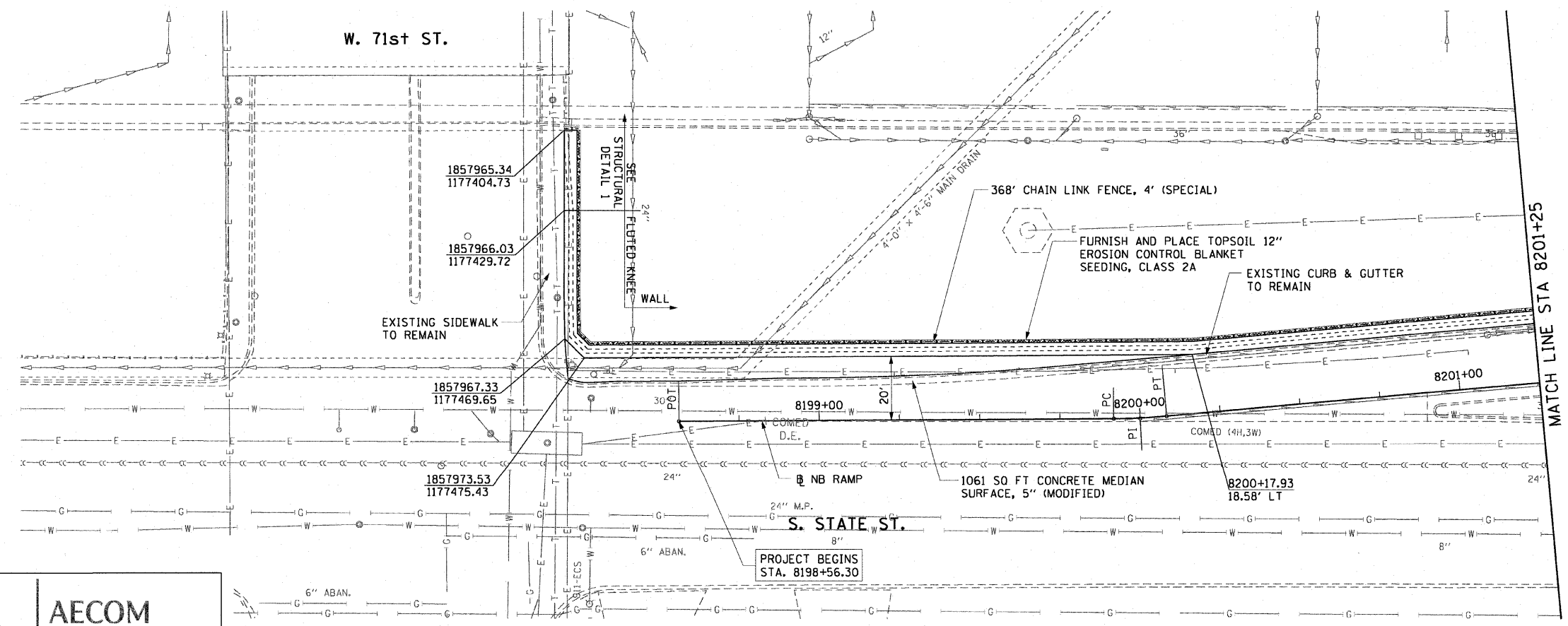
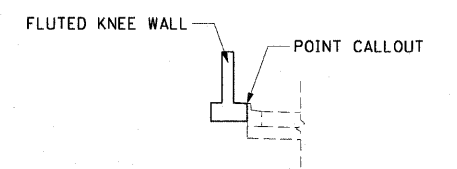
- LEGEND:**
- AREA REMOVALS
 - LINEAR REMOVALS
 - TREE REMOVAL (WITH SIZE)
 - INLET FILTER



**EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS**



- NOTES:**
1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
 3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS





SCALE: 1"=20'
DATE: JANUARY 14, 2009

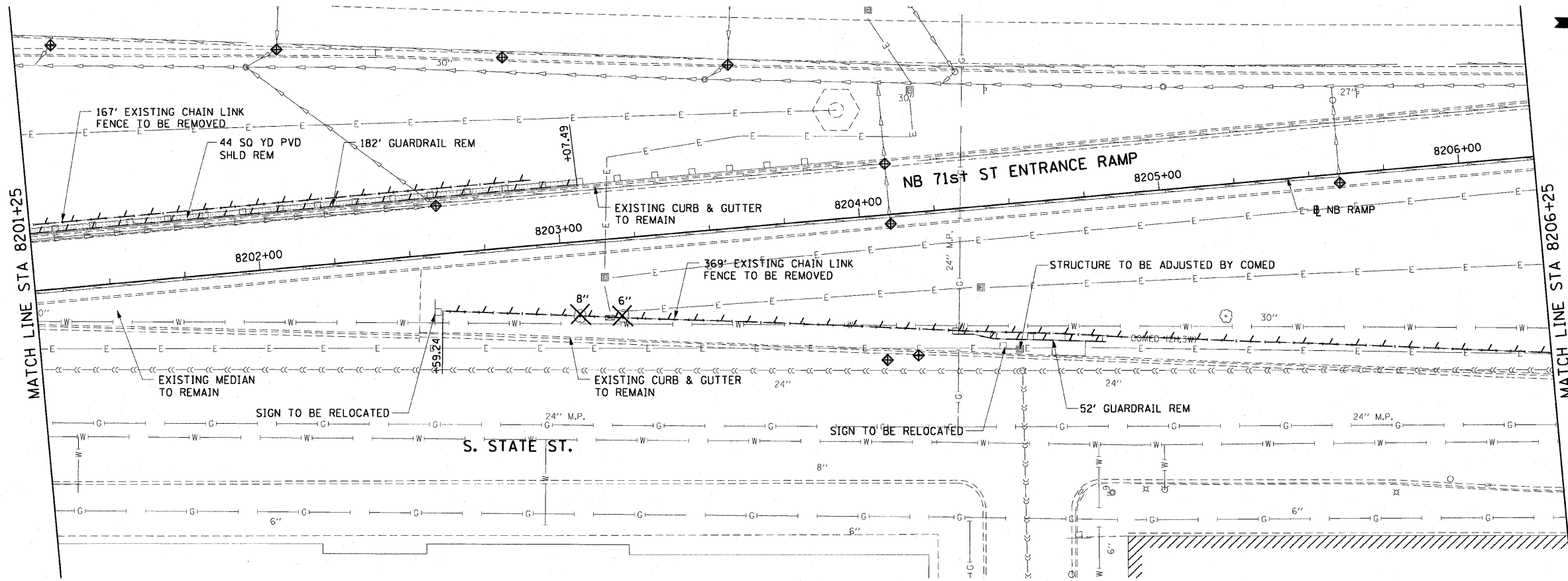
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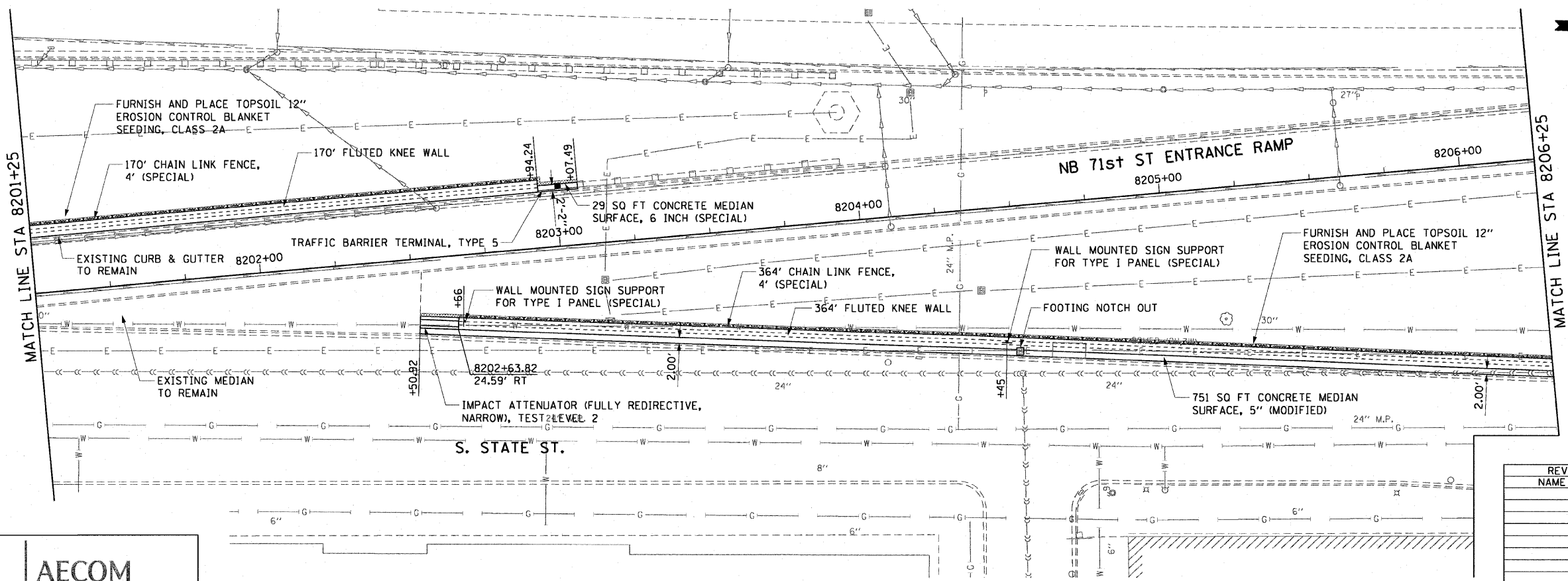
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LEGEND:

-  AREA REMOVALS
-  LINEAR REMOVALS
-  TREE REMOVAL (WITH SIZE)
-  INLET FILTER



EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.
4. SEE ROADWAY DETAILS FOR WALL MOUNTED SIGN SUPPORT DETAILS.
5. FOR FLUTED KNEE WALL FOOTING NOTCH OUTS, SEE STRUCTURAL DETAILS.

AECOM

REVISIONS	
NAME	DATE

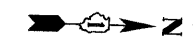
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F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS

SCALE: 1"=20'
DATE: JANUARY 14, 2009

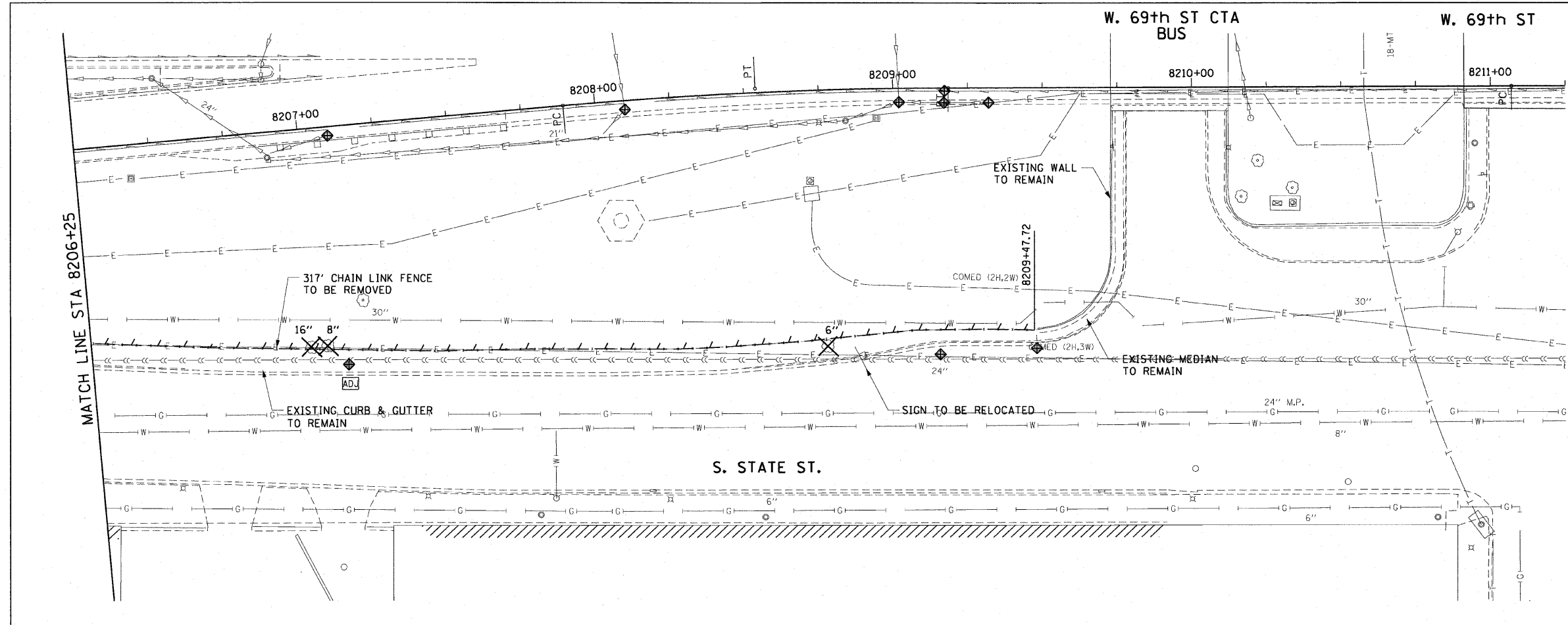
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CHECKED BY: RMG

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F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 18
STA. 8206+25		TO STA. 8209+47.76		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				62983
*(1818, 1919, 1919.15) I-11				



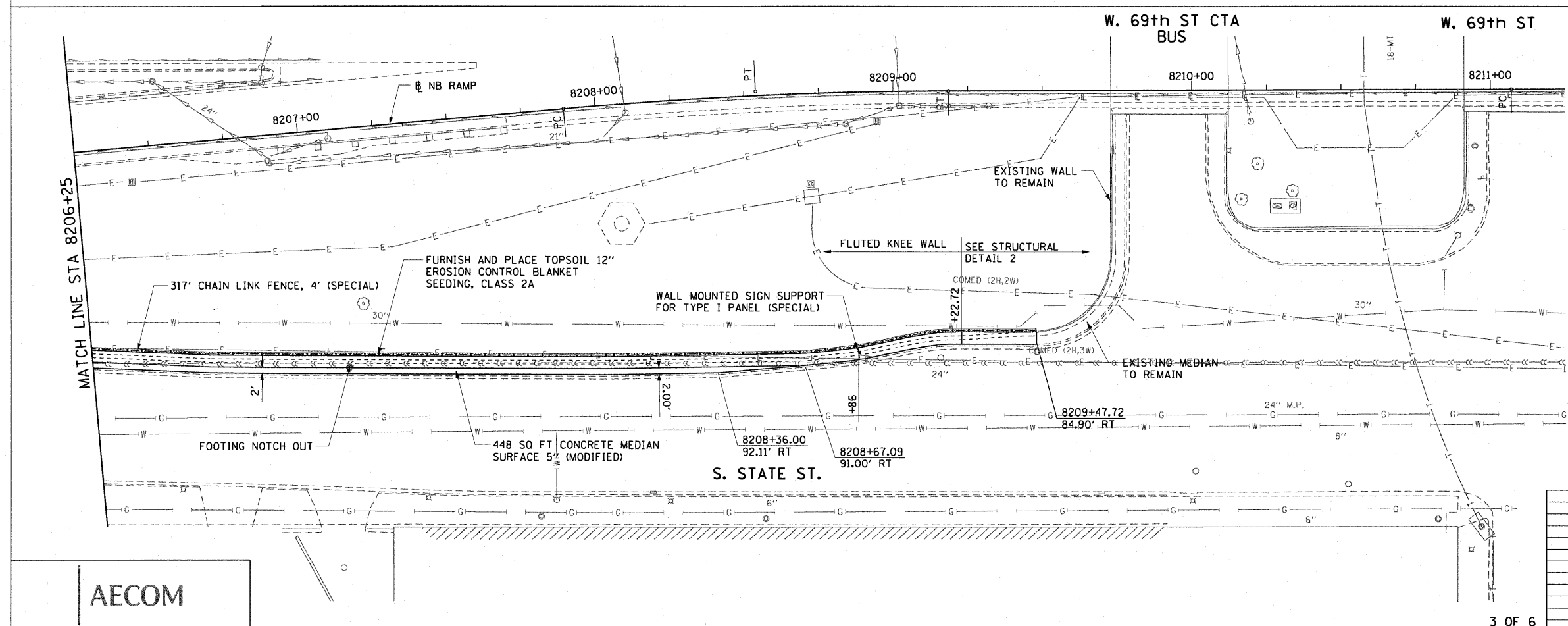
- LEGEND:**
- AREA REMOVALS
 - LINEAR REMOVALS
 - TREE REMOVAL (WITH SIZE)
 - INLET FILTER



**EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS**



- NOTES:**
1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
 3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.
 4. SEE ROADWAY DETAILS FOR WALL MOUNTED SIGN SUPPORT DETAILS.
 5. FOR FLUTED KNEE WALL FOOTING NOTCH OUTS, SEE STRUCTURAL DETAILS.
 6. FLUTED KNEE WALL STEM SHALL MATCH EXISTING WALL AT STA. 8209+47.72



REVISIONS	
NAME	DATE

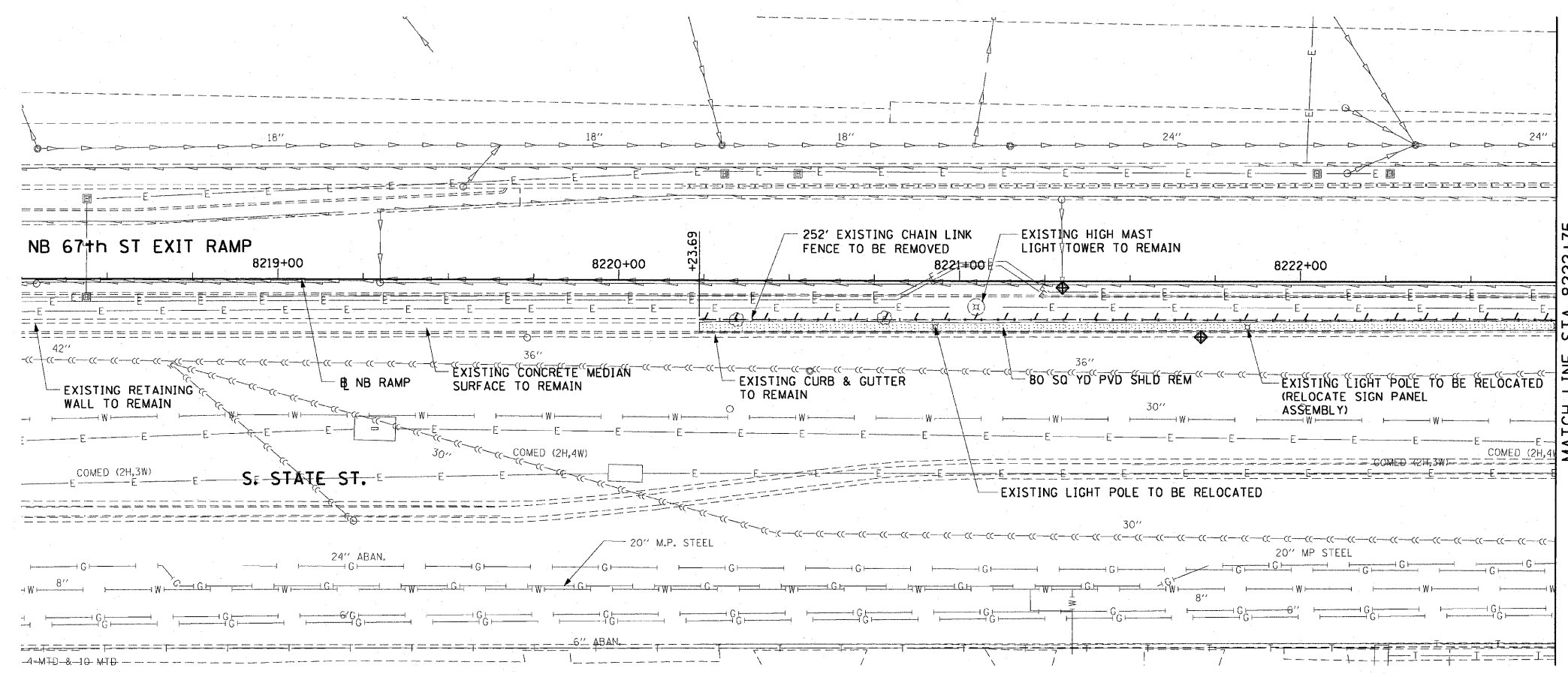
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS

SCALE: 1"=20'
DATE: JANUARY 14, 2009

DRAWN BY: NJH
CHECKED BY: RMG

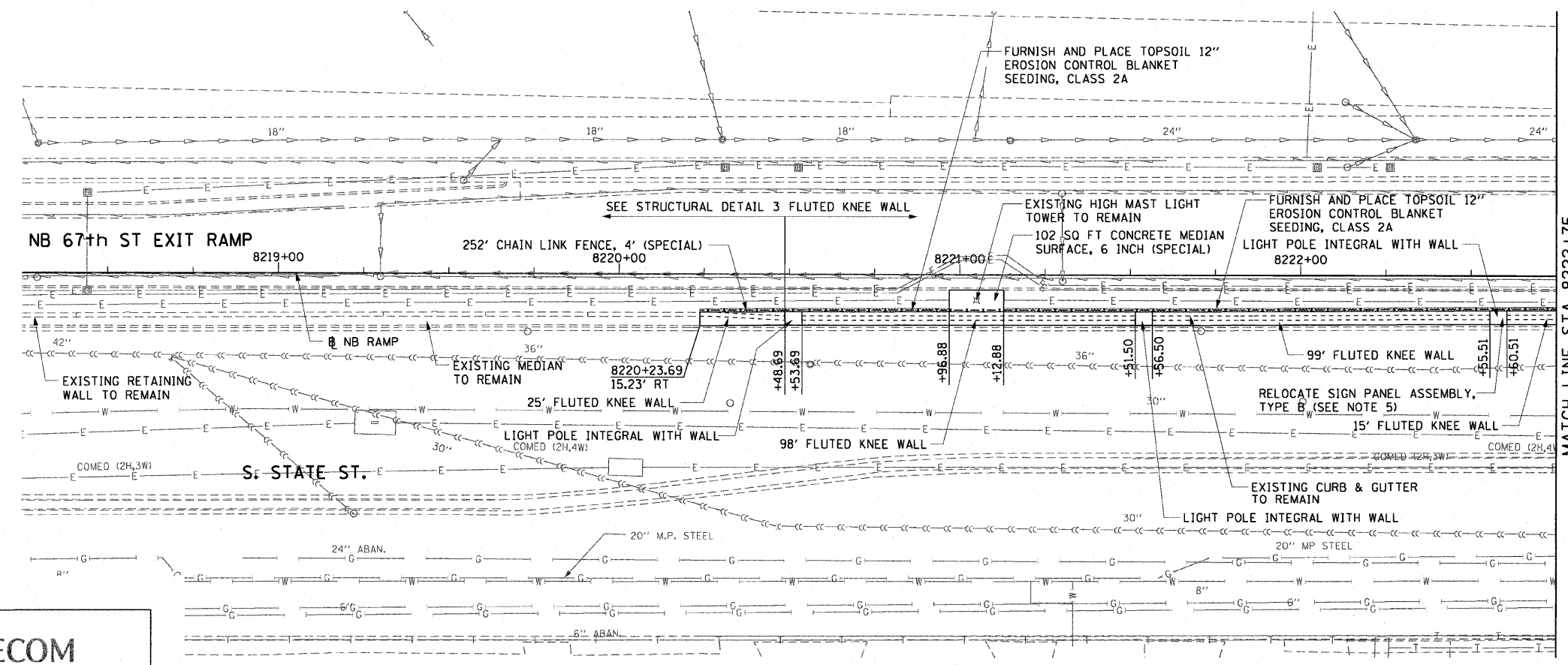
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- LEGEND:**
- AREA REMOVALS
 - LINEAR REMOVALS
 - TREE REMOVAL (WITH SIZE)
 - INLET FILTER

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



- NOTES:**
1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
 3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.
 4. SEE STRUCTURAL SHEETS FOR DETAILS OF THE LIGHT POLE FOUNDATION INTEGRAL WITH THE FLUTED KNEE WALL.
 5. THE SIGN PANEL ASSEMBLY SHALL BE RELOCATED TO THE LIGHTPOLE AT STATION 822+58.01

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS

SCALE: 1"=20'
DATE: JANUARY 14, 2009

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CHECKED BY: RMG



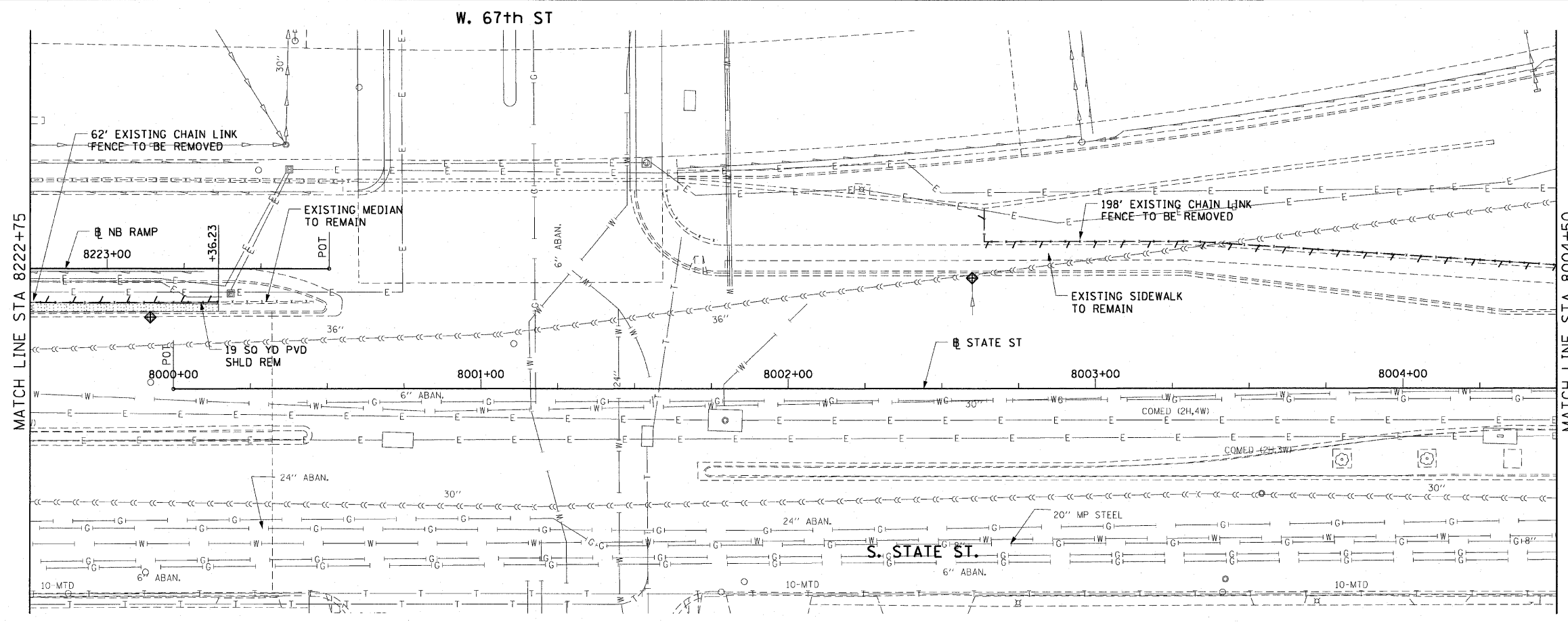
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F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 20
STA. 8222+75		TO STA. 8009+50		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
•(1818, 1919, 1919.15) I-11 62983				



LEGEND:

- AREA REMOVALS
- LINEAR REMOVALS
- TREE REMOVAL (WITH SIZE)
- INLET FILTER



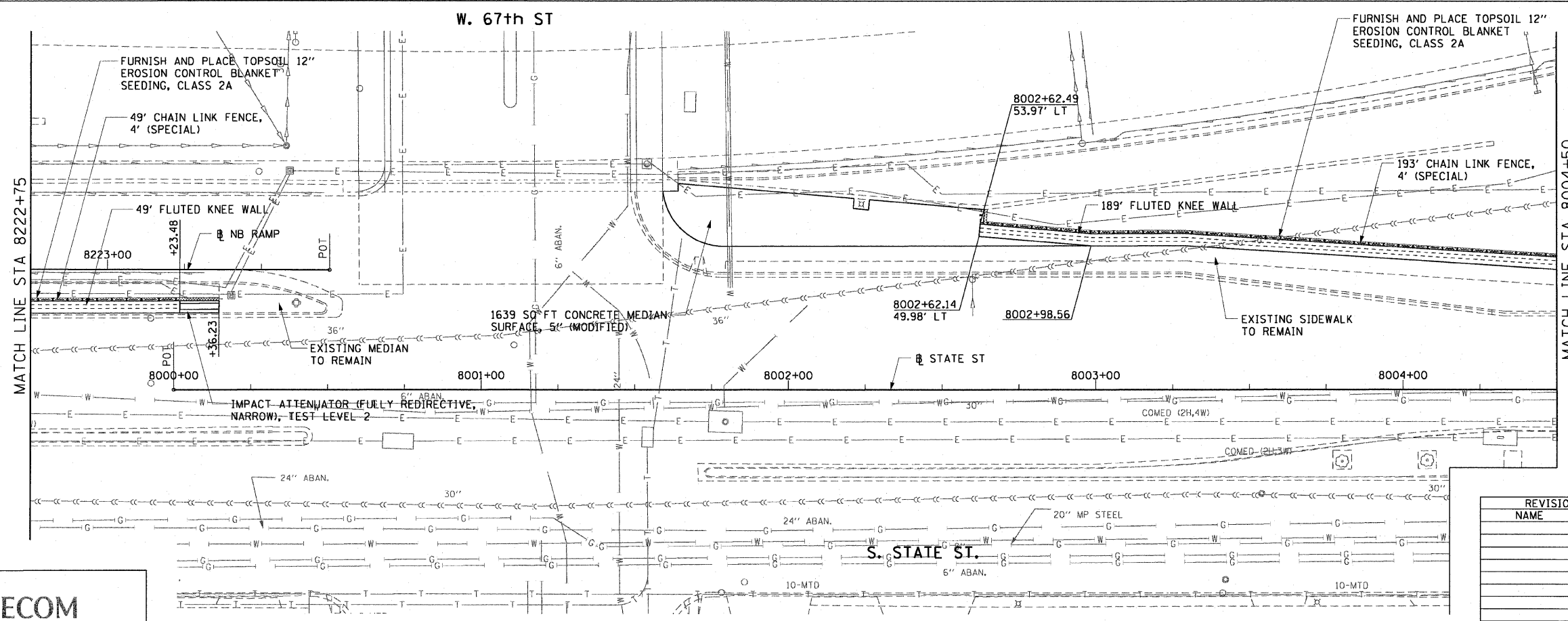
EXISTING CONDITIONS AND REMOVAL

PROPOSED IMPROVEMENTS



NOTES:

1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
3. SEE ROADWAY DETAILS FOR CONCRETE MEDIAN DETAILS.



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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
 EXISTING AND PROPOSED ROADWAY PLANS

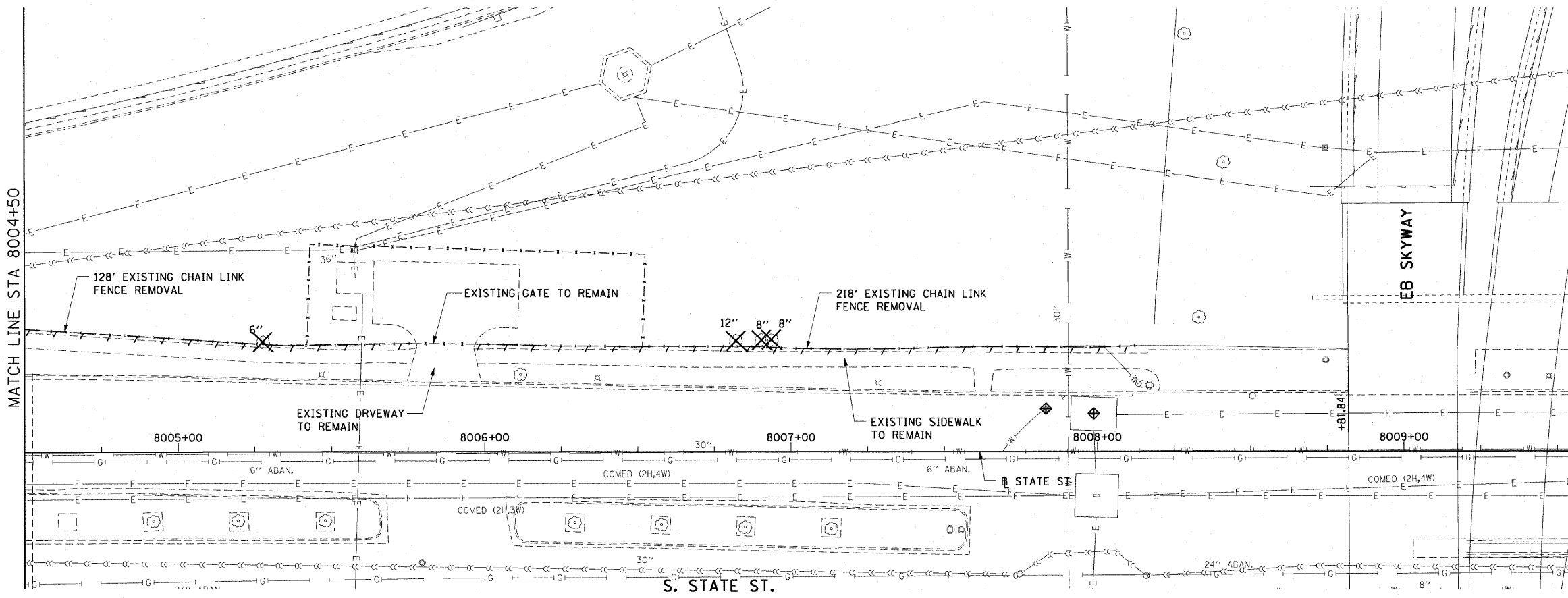
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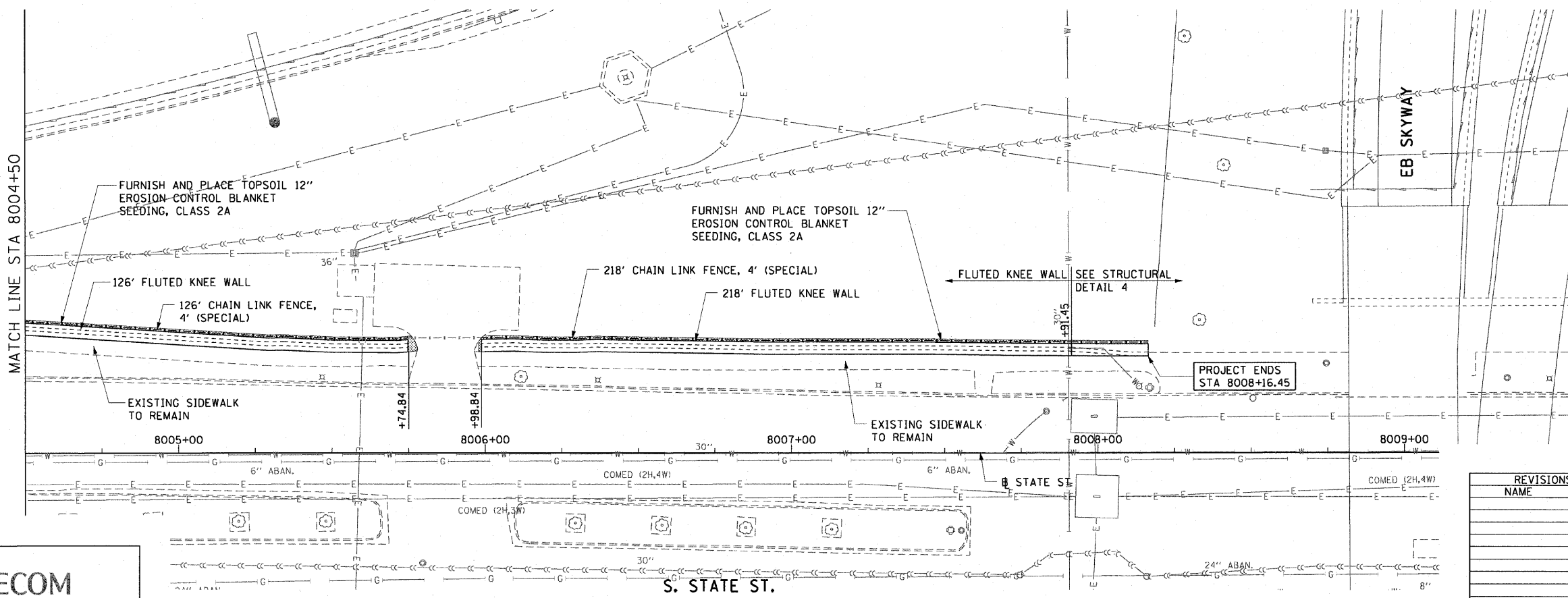
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STA. 8004+50		TO STA. 8008+81.84		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				62983
•(1818, 1919, 1919.15) 1-11				

- LEGEND:**
- AREA REMOVALS
 - LINEAR REMOVALS
 - TREE REMOVAL (WITH SIZE)
 - INLET FILTER



EXISTING CONDITIONS AND REMOVAL

PROPOSED IMPROVEMENTS



- NOTES:**
1. SEE STRUCTURAL DETAILS FOR FLUTED KNEE WALL DETAILS.
 2. ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.
 3. THE FRONT FACE OF THE FLUTED KNEE WALL STEM SHALL BE IN-LINE WITH THE ABUTMENT WALL OF THE EASTBOUND SKYWAY BRIDGE.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
EXISTING AND PROPOSED ROADWAY PLANS
 SCALE: 1"=20'
 DATE: JANUARY 14, 2009
 DRAWN BY: NJH
 CHECKED BY: RMG

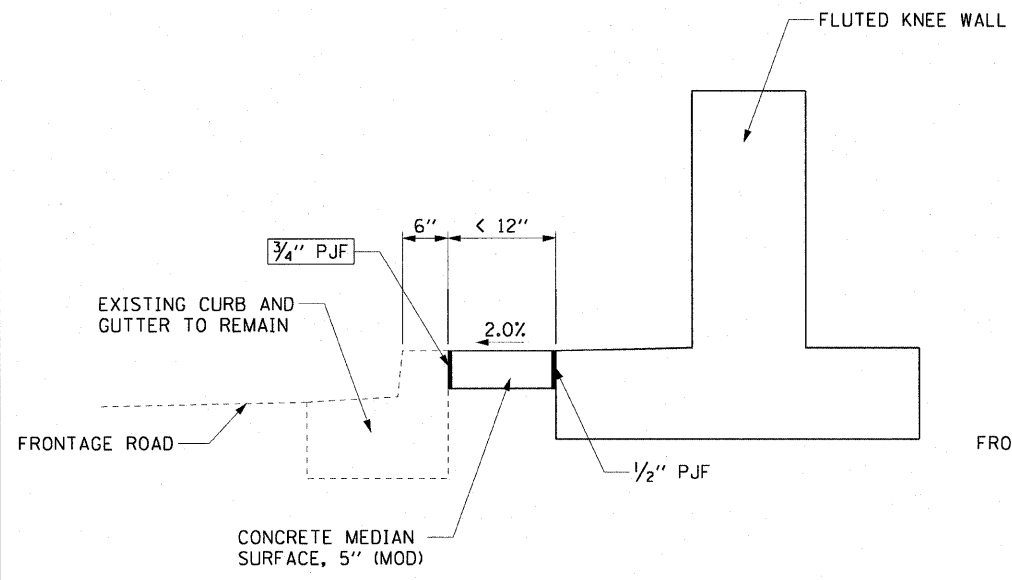
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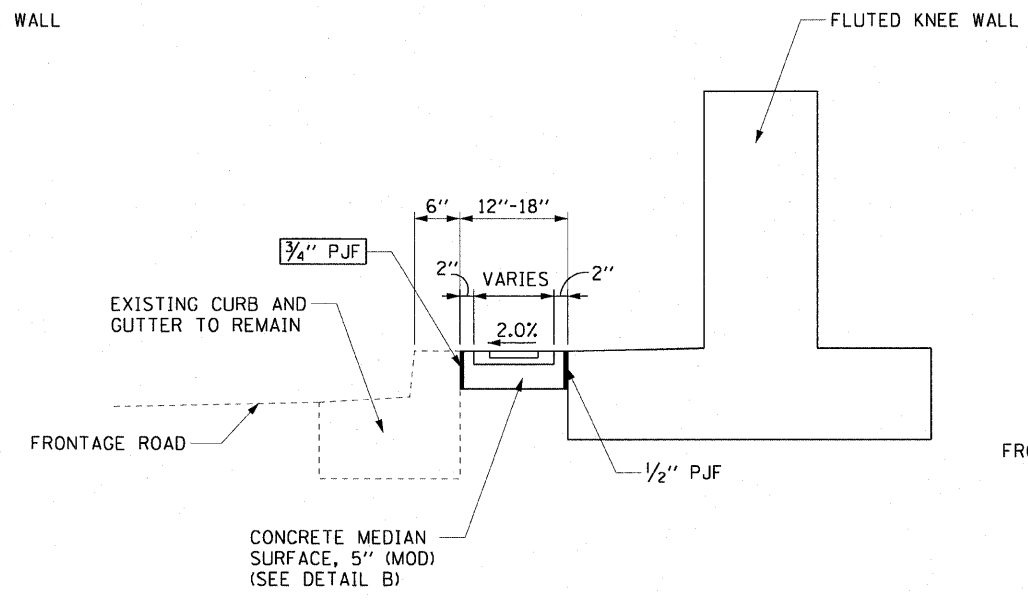
THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES < 12" IN WIDTH

THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES 12" TO 18" IN WIDTH

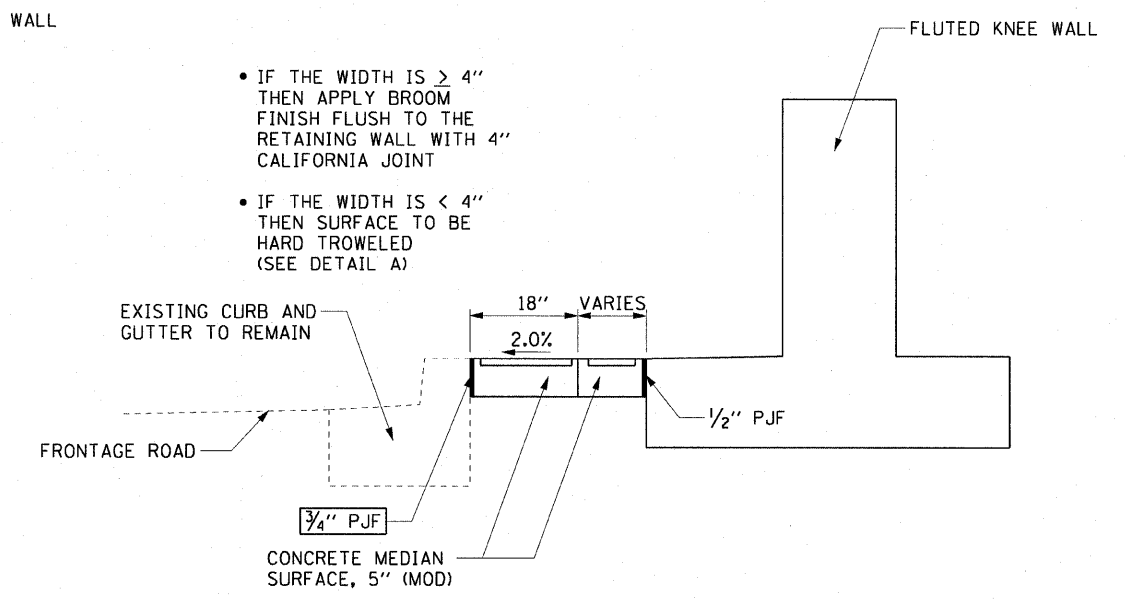
THIS OPTION WILL BE USED WHEN THE CARRIAGE WALK AREA MEASURES > 18" IN WIDTH



CARRIAGE WALK
AREA < 12" WIDE



CARRIAGE WALK
AREA 12" TO 18" WIDE

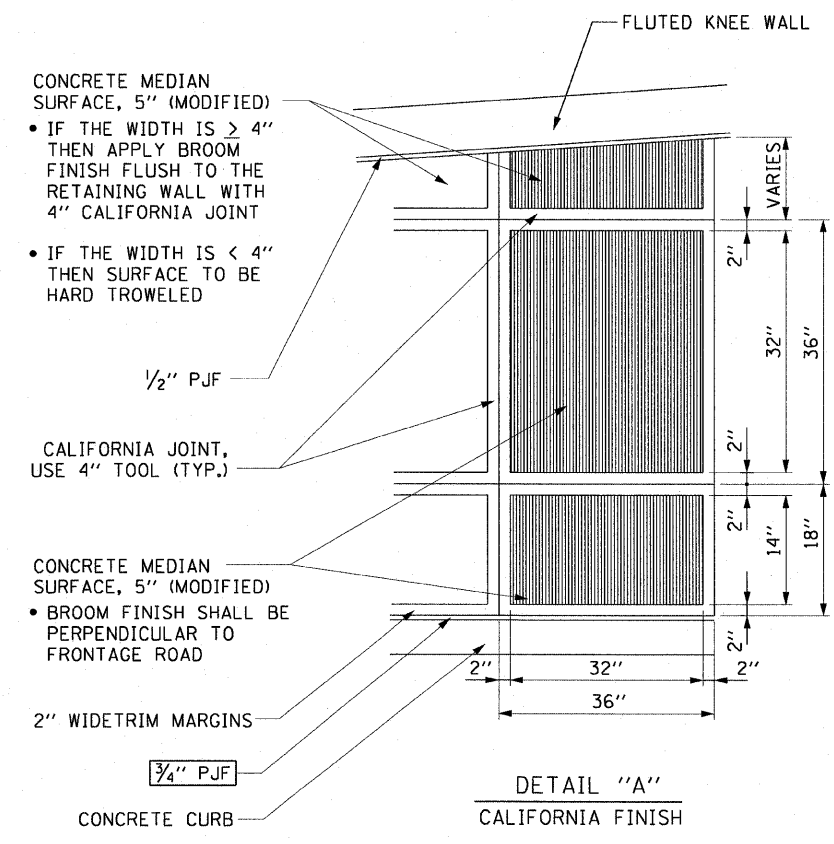


CARRIAGE WALK
AREA > 18" WIDE

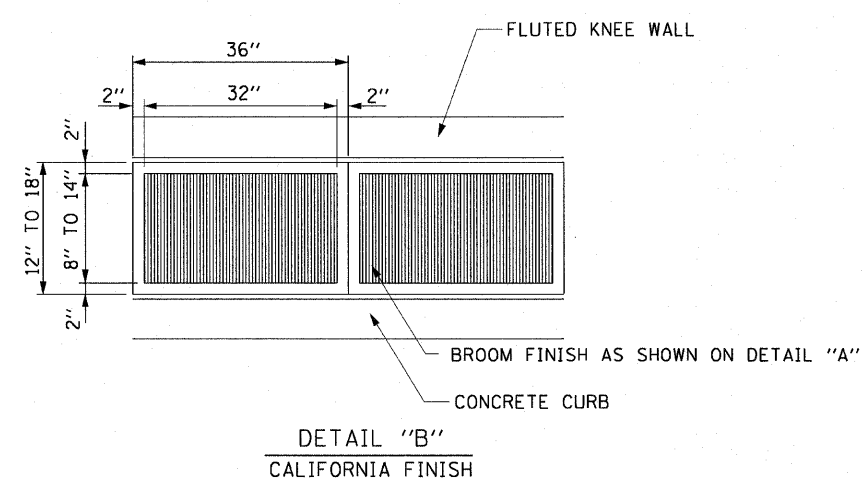
- IF THE WIDTH IS $\geq 4"$ THEN APPLY BROOM FINISH FLUSH TO THE RETAINING WALL WITH 4" CALIFORNIA JOINT
- IF THE WIDTH IS $< 4"$ THEN SURFACE TO BE HARD TROWELED (SEE DETAIL A)

NOTES:

3/4" PREFORMED JOINT FILLER SHALL BE INCLUDED IN THE COST OF THE CONCRETE MEDIAN SURFACE, 5" (MODIFIED).



DETAIL "A"
CALIFORNIA FINISH



DETAIL "B"
CALIFORNIA FINISH

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
ROADWAY DETAILS
CONCRETE MEDIAN SURFACE, 5" (MODIFIED)
CARRIAGE WALK AND CALIFORNIA FINISH DETAIL

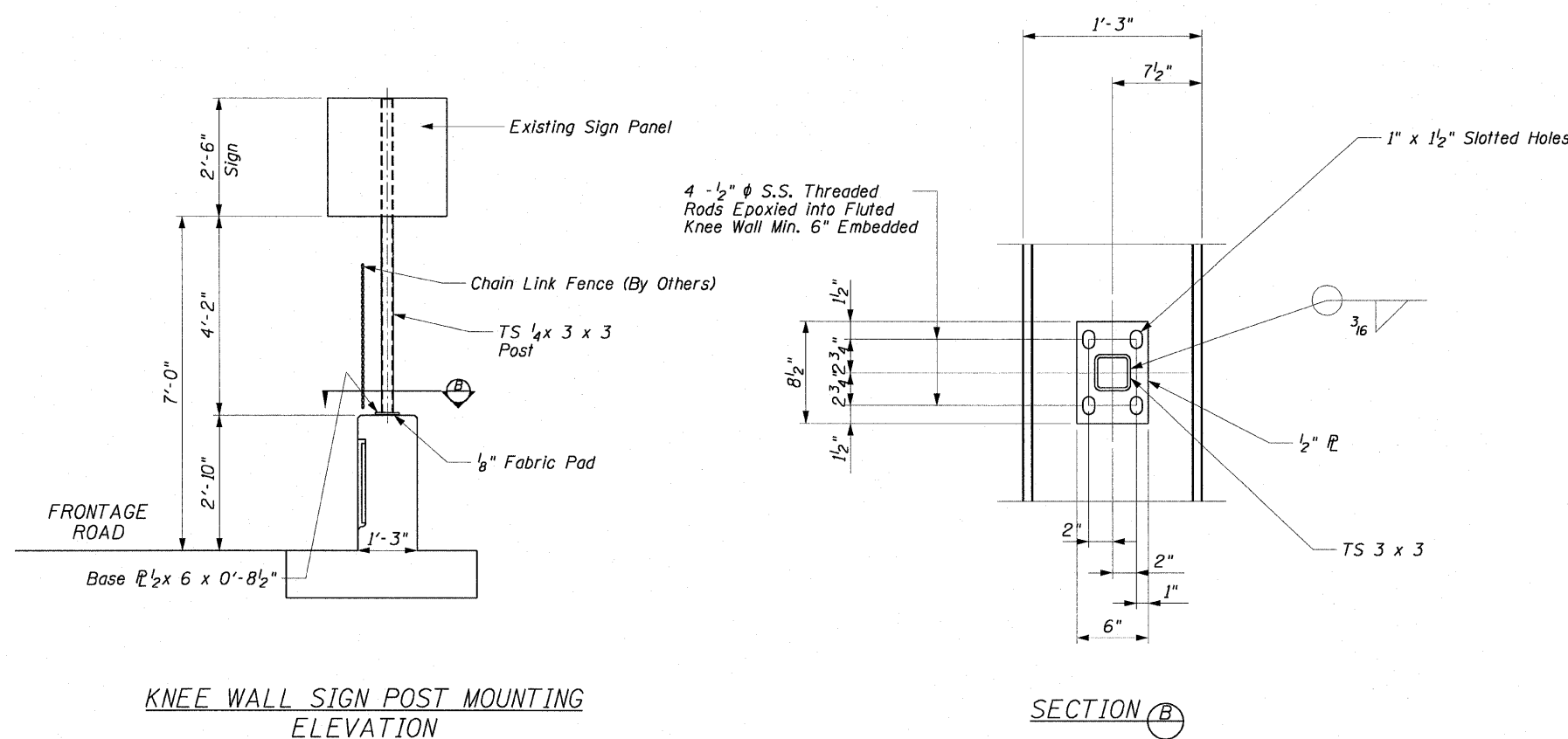
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WALL MOUNTED SIGN SUPPORT FOR TYPE 1 PANEL (SPECIAL) DETAILS

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	45	23
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
*(1818, 1919, 1919.15)		I-11		62983



KNEE WALL SIGN POST MOUNTING ELEVATION

SECTION B

NOTE

When drilling and epoxy grouting the anchor rods, the Contractor shall use the capsule or the adhesive cartridge type anchor rods that have been previously tested and given a prior approval by IDOT. 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 shall be sealed with pre-measured amounts of the adhesive chemical. This associated materials and work performed shall be included in the cost of Wall Mounted Sign Support for Type 1 Panel (Special).

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
 ROADWAY DETAILS
 WALL MOUNTED SIGN SUPPORT
 FOR TYPE 1 PANEL (SPECIAL) DETAILS
 SCALE: NONE
 DATE: JANUARY 14, 2009
 DRAWN BY: DS
 CHECKED BY: SWANG

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ELECTRICAL GENERAL NOTES

1. ALL WORK MUST BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST CHICAGO ELECTRICAL CODE RULES AND ORDINANCES, CITY OF CHICAGO DEPARTMENT OF ELECTRICAL WIRING AND COMMUNICATIONS REQUIREMENTS, BUREAU OF BRIDGES, AND CHICAGO BUREAU OF ELECTRICITY (BOE) STANDARDS, DRAWINGS, DETAILS AND ALL APPLICABLE SPECIFICATIONS/REQUIREMENTS FOR COMPLETE AND APPROVED ROADWAY LIGHTING INSTALLATIONS.
2. REFER TO CIVIL AND STRUCTURAL DRAWINGS FOR STAGING DIAGRAMS AND PHASES OF CONSTRUCTION. COORDINATE ALL DEMOLITION OF EXISTING AND INSTALLATION OF PROPOSED ELECTRICAL WORK SUCH AS INSTALLATION OF EXPANSION/DEFLECTION FITTINGS, LIGHT POLES, HANDHOLES, MANHOLES, CONTROLLERS, ETC., WITH ROADWAY CONSTRUCTION STAGES.
3. A STAGING SCHEDULE FOR MATERIAL AND EQUIPMENT REMOVAL, INSTALLATION, AND APPROXIMATE DATE OF PROPOSED ENERGIZING OF PERMANENT LIGHTING SYSTEMS MUST BE SUBMITTED PRIOR TO THE COMMENCEMENT OF WORK TO ASSURE COORDINATION OF THE WORK SCHEDULE.
4. ALL INFORMATION FOR EXISTING ITEMS SHOWN ON THE DRAWINGS ARE BASED ON FIELD OBSERVATIONS AND AVAILABLE DOCUMENTS, AND ARE NOT GUARANTEED TO BE COMPLETE AND/OR TOTALLY ACCURATE. THE CONTRACTOR MUST VERIFY ALL EXISTING CONDITIONS AND EQUIPMENT LOCATIONS IN THE FIELD PRIOR TO SUBMITTING PROPOSAL. FAILURE TO DO SO WILL NOT RELIEVE THIS CONTRACTOR FROM PERFORMING THE WORK AS PART OF THIS CONTRACT. INCLUDE IN THE PROPOSAL ANY RELOCATION OR ALTERATION OF EXISTING ELECTRICAL SYSTEMS, EQUIPMENT OR COMPONENTS WHICH ARE REQUIRED TO CLEAR THE NEW CONSTRUCTION, ADDITIONS OR ALTERATIONS TO BE PERFORMED.
5. NOTIFY THE ENGINEER, IN WRITING, OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND NEW WORK, OR BETWEEN ELECTRICAL WORK AND THE WORK OF OTHER TRADES PRIOR TO SUBMITTING PROPOSAL. LACK OF SUCH NOTIFICATION WILL BE CONSTRUED TO INDICATE NO DISCREPANCIES OR CONFLICTS EXIST. ADDITIONAL COMPENSATION WILL NOT BE GRANTED AFTER AWARD OF CONTRACT FOR ANY SUCH WORK REQUIRED TO COMPLY WITH THESE REQUIREMENTS.
6. THE QUANTITIES OF ALL MATERIALS AS INDICATED ON THESE PLAN DRAWINGS ARE APPROXIMATIONS ONLY. THE CONTRACTOR MUST FIELD VERIFY ALL LENGTHS AND QUANTITIES PRIOR TO ORDERING MATERIALS IN COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
7. THE CONTRACTOR IS RESPONSIBLE TO MARK THE PROPOSED LOCATIONS OF ALL LIGHT POLES, HANDHOLES, MANHOLES, CONDUIT ROUTES, AND OTHER EQUIPMENT AND ITEMS FOR A CONTRACTOR REQUESTED PRE CONSTRUCTION INSPECTION BY THE ENGINEER. THE EXACT LOCATIONS OF ALL ITEMS MUST BE APPROVED BY THE ENGINEER PRIOR TO STARTING WORK. ANY WORK INSTALLED WITHOUT LOCATION APPROVAL WILL BE SUBJECT TO CORRECTIVE ACTION AT THE CONTRACTOR'S EXPENSE.
8. THE CONTRACTOR WILL NOT DE-ENERGIZE ANY EXISTING ELECTRICAL EQUIPMENT WITHOUT PRIOR APPROVAL FROM THE ENGINEER.
9. FURNISH, INSTALL, AND MAINTAIN ADEQUATE TEMPORARY POWER AND LIGHTING REQUIRED FOR CONSTRUCTION. THE CONTRACTOR MUST PAY ALL ENERGY COSTS AND ALL POWER COMPANY COSTS.
10. ALL EXISTING AREAS THAT ARE DAMAGED AS PART OF THIS WORK; INCLUDING BUT NOT LIMITED TO FENCING, CURB AND GUTTER, SIDEWALKS, AND WHERE RESTORATION IS NOT COVERED BY THE APPLICABLE SECTIONS OF THE SPECIFICATIONS, MUST BE RESTORED TO THE SATISFACTION OF THE ENGINEER. THIS WORK MUST BE INCLUDED IN THE COST OF THIS CONTRACT. SEPARATE PAYMENT WILL NOT BE MADE.
11. NOTIFY THE UTILITY COMPANIES (SUCH AS COMED, CABLE TV, TELEPHONE, ETC.) TO RELOCATE THEIR EXISTING EQUIPMENT LOCATED ON PUBLIC RIGHT OF WAY SPACES WHICH INTERFERE WITH THE PROPOSED CONSTRUCTION OF ROADWAY.
12. TRENCHED CONDUITS MUST BE INSTALLED AT A MINIMUM DEPTH OF 30" BELOW GRADE AND POSITIONED IN THE FIELD TO AVOID CONFLICT WITH TREE ROOTS, ROADWAY SEWER DRAINS, SHEET PILING, AND OTHER EXISTING AND PROPOSED UTILITIES. THE CONTRACTOR MUST INCREASE THE DEPTH OF TRENCH AND CONDUITS TO AVOID CONFLICTS AS REQUIRED AT NO ADDITIONAL COST TO IDOT.
13. ALL EQUIPMENT, CONDUITS, LIGHT POLES, LIGHTING CONTROLLERS AND CABINET ENCLOSURES MUST BE PROPERLY GROUNDED IN ACCORDANCE WITH THE CITY OF CHICAGO ELECTRICAL CODE REQUIREMENTS. USE A CONTINUOUS EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT ALL WIRING, PROPERLY BONDED TO POLES, JUNCTION BOXES, CABINETS ETC. AND INCORPORATED IN ALL CIRCUIT RUNS.
14. RODS MUST BE INSTALLED FOR SERVICE GROUNDING AT LIGHTING CONTROLLERS, TEMPORARY LIGHTING UNITS, CONTROLLER FOUNDATION, AND AT EACH CONCRETE POLE FOUNDATION INSTALLED ON EMBANKMENT.
15. CONNECTIONS TO THE GROUND RODS MUST BE MADE WITH EXOTHERMIC WELDS, CITY OF CHICAGO APPROVED. THE DRIVEN GROUND ROD ELECTRODES MUST HAVE A LOW RESISTANCE TO THE GROUND NOT TO EXCEED 25 OHMS.
16. THE ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS MUST BE RUN CONTINUOUS WITHOUT ANY UNDERGROUND SPLICES, LIGHTING CONTROLLER SPLICES, HANDHOLE SPLICES, OR MANHOLE SPLICES. SPLICING OF ELECTRIC CABLE PHASE AND NEUTRAL CONDUCTORS WILL BE PERMITTED ONLY IN THE BASE OF THE EXISTING TO REMAIN OR PROPOSED LIGHT POLES. THIS WORK MUST BE INCLUDED IN THE ELECTRIC CABLE PAY ITEM. SEPARATE PAYMENT WILL NOT BE MADE.
17. PRIOR TO ENERGIZING THE ELECTRICAL SYSTEM, TEST THE ENTIRE INSTALLATION FOR GROUNDS, SHORTS, IMPROPER INSULATION RESISTANCE OR IMPROPER CONNECTION. APPLY DC VOLTAGE OF 1000 VOLTS FOR MEASUREMENT OF INSULATION RESISTANCE. (USE MOTOR DRIVEN MEGGER INSTRUMENT.)
18. THE CONTRACTOR MUST SCHEDULE A FINAL ACCEPTANCE INSPECTION WITH THE ENGINEER AND THE BOE UPON COMPLETION OF ALL PROPOSED LIGHTING WORK. UPON FINAL ACCEPTANCE, THE CONTRACTOR MUST TRANSFER ALL LIGHTING INSTALLATIONS TO THE BOE FOR MAINTENANCE PURPOSES.

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	45	24
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
•(1818, 1919, 1919.15) I-11		62983		

E-1









REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
CDOT ELECTRICAL GENERAL NOTES
 SCALE: NOT TO SCALE DRAWN BY: HAR
 DATE: JANUARY 14, 2009 CHECKED BY: JPC









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ELECTRICAL SYMBOLS FOR CDOT (BOE) WORK

-  EXISTING CDOT COMBINATION TRAFFIC SIGNAL/LIGHTING UNIT; POLE, MAST ARMS AND LUMINAIRES AS INDICATED ON PLANS.
-  EXISTING CDOT LIGHTING UNIT; POLE, MAST ARM AND LUMINAIRE AS INDICATED ON PLANS
-  EXISTING LUMINAIRE, 310W HPS LAMP, 240V, SEMI-CUTOFF
-  EXISTING CDOT LIGHTING UNIT TO BE REMOVED AND/OR RELOCATED (POLE, MAST ARM AND LUMINAIRE) AS INDICATED ON PLANS
-  EXISTING POLE, CITY STEEL, EMBEDDED, 4"x9"x20' 7 GA, TAPERED TUBULAR
-  EXISTING POLE, CITY STEEL, ANCHOR BASE, 20'-0", 7 GA, STEEL AND FND WITH 10" BC AND 1/4" ANCHOR RODS
-  EXISTING STREET LIGHTING CONTROLLER, PEDESTAL OR BASE MOUNTED
-  EXISTING IDOT HANDHOLE

GENERAL ELECTRICAL CABLE AND CONDUIT SYMBOLS

-  EXISTING RACEWAY OR CONDUIT RUN AS INDICATED ON PLANS
-  RACEWAY OR CONDUIT IN TRENCH, LENGTH AND TYPE AS INDICATED ON PLANS
-  EXPOSED RACEWAY OR CONDUIT, LENGTH AND TYPE AS INDICATED ON PLANS
-  RACEWAY OR CONDUIT EMBEDDED IN STRUCTURE, LENGTH AND TYPE AS INDICATED ON PLANS
-  AERIAL CABLE, LENGTH AND TYPE AS INDICATED ON PLANS
-  CABLE, STREET LIGHTING, 2-1/C*6, 1-1/C*8 GND EPRN, 600 V, TRIPLEXED, IN RACEWAY OR CONDUIT AS INDICATED ON PLANS
-  EXISTING CABLE, STREET LIGHTING, IN EXISTING RACEWAY OR CONDUIT RUN
-  CABLE, STREET LIGHTING, 3-1/C *2/0 EPR, 600V, IN RACEWAY OR CONDUIT AS INDICATED ON THE PLANS

ABBREVIATIONS (CDOT)

<p>A AMPERES</p> <p>AC ALTERNATING CURRENT</p> <p>A/C AERIAL CABLE</p> <p>ALUM ALUMINUM</p> <p>ATS ATTACHED TO STRUCTURE</p> <p>AWG AMERICAN WIRE GAUGE</p> <p>@ BASELINE</p> <p>BC BOLT CIRCLE</p> <p>BHB BALLAST HOUSING BASE</p> <p>BOE CITY OF CHICAGO BUREAU OF ELECTRICITY</p> <p>C CONDUIT</p> <p>CDOT CITY OF CHICAGO DEPARTMENT OF TRANSPORTATION</p> <p>CEC CHICAGO ELECTRIC CODE</p> <p>CONC CONCRETE</p> <p>CKT(S) CIRCUIT(S)</p> <p>Ⓢ CENTERLINE</p> <p>D DUCTBANK</p> <p>DC DIRECT CURRENT</p> <p>DIA DIAMETER</p> <p>DWG(S) DRAWING(S)</p> <p>E EXISTING UNIT TO REMAIN</p> <p>EB EASTBOUND</p> <p>ECA ELECTRIC CABLE ASSEMBLY</p> <p>EL ELEVATION</p> <p>EM EXISTING UNIT TO BE MODIFIED</p> <p>ER EXISTING RELOCATED UNIT</p> <p>F FOOT, FEET</p> <p>FND FOUNDATION</p> <p>GA GAUGE</p> <p>GND GROUND</p> <p>GRS GALVANIZED RIGID STEEL CONDUIT</p> <p>HPS HIGH PRESSURE SODIUM</p> <p>JB JUNCTION BOX</p> <p>KVA KILOVOLT-AMPERE</p> <p>KW KILOWATT</p> <p>LC LIGHTING CONTROLLER</p>	<p>LF LINEAR FEET</p> <p>LT LEFT</p> <p>LTG LIGHTING</p> <p>MA MAST ARM</p> <p>MAX MAXIMUM</p> <p>MIN MINIMUM</p> <p>MTD MOUNTED</p> <p>NB NORTHBOUND</p> <p>NEC NATIONAL ELECTRIC CODE</p> <p>NEMA NATIONAL ELEC MANUFACTURERS ASSOCIATION</p> <p>NM NON-METALLIC</p> <p>NO NUMBER</p> <p>NTS NOT TO SCALE</p> <p>PH PHASE</p> <p>PNL PANEL</p> <p>PTZ PAN-TILT-ZOOM</p> <p>PVC POLYVINYL CHLORIDE</p> <p>PVCC PVC COATED</p> <p>PVGRS PVC COATED GALVANIZED RIGID STEEL CONDUIT</p> <p>R EXISTING UNIT TO BE REMOVED (OWNER SALVAGED UNO)</p> <p>ROW RIGHT OF WAY</p> <p>RT RIGHT</p> <p>SB SOUTHBOUND</p> <p>SS STAINLESS STEEL</p> <p>STA STATION</p> <p>STRUCT STRUCTURE</p> <p>T TEMPORARY EQUIPMENT OR INSTALLATION</p> <p>TYP TYPICAL</p> <p>UNO UNLESS NOTED OTHERWISE</p> <p>V VOLT</p> <p>W WATT</p> <p>WB WESTBOUND</p> <p>WM WALL MOUNTED</p> <p>WP WOOD POLE</p> <p>XFMR TRANSFORMER</p>
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F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 25
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		62983
*(1818, 1919, 1919.15)		I-11		

AECOM

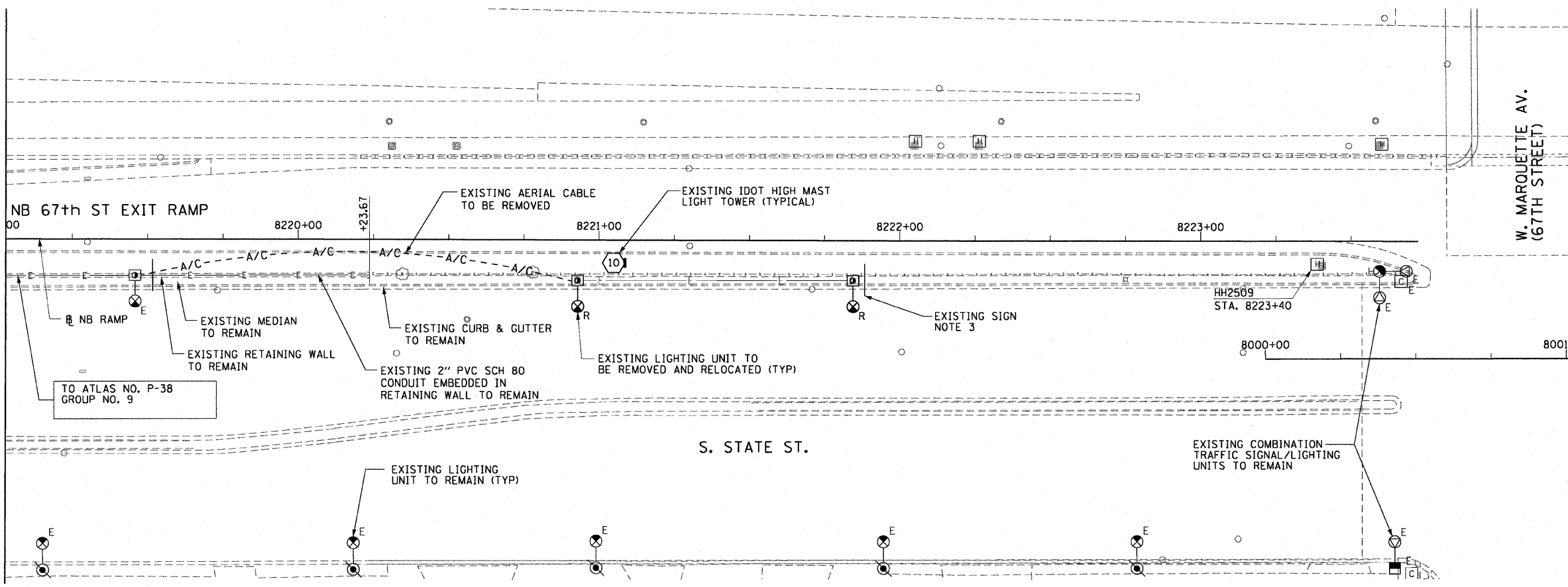
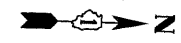
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

**CDOT ELECTRICAL
 SYMBOLS AND ABBREVIATIONS**

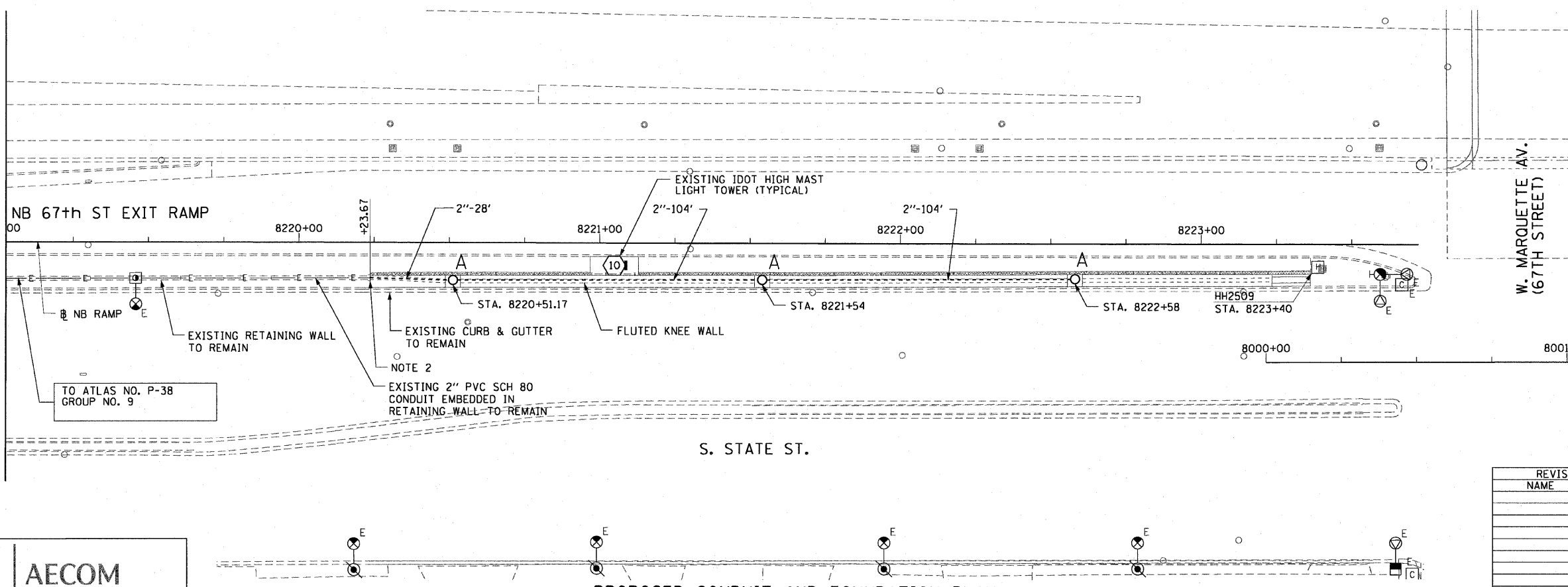
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 DATE: JANUARY 14, 2009 CHECKED BY: JPC

F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	26
STA. 8220+23.67 TO STA. 8222+75				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
•(1818, 1919, 1919.15) I-11 62983				



EXISTING CONDUIT/DEMOLITION PLAN

- NOTES:**
- SEE DRAWINGS E-1 AND E-2 FOR GENERAL NOTES SYMBOLS AND ABBREVIATIONS.
 - INTERCEPT EXISTING RACEWAY AND EXTEND TO WALL MOUNTED LIGHTING UNIT. (2" PVC SCH 80 EMBEDDED IN WALL).
 - REGULATORY SIGNS ATTACHED TO LIGHT POLES SHALL BE INVENTORIED, REMOVED AND STORED BY THE CONTRACTOR FOR REINSTALLATION ON RELOCATED LIGHT POLES.



PROPOSED CONDUIT AND FOUNDATION PLAN

A- FOUNDATION INTEGRAL WITH KNEE WALL SEE STRUCTURAL DRAWINGS. 10" B.C., 1/4" ANCHOR RODS
 2" CONDUIT BETWEEN FOUNDATIONS SHALL BE SCHEDULE 80 PVC EMBEDDED IN KNEE WALL



E-3

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

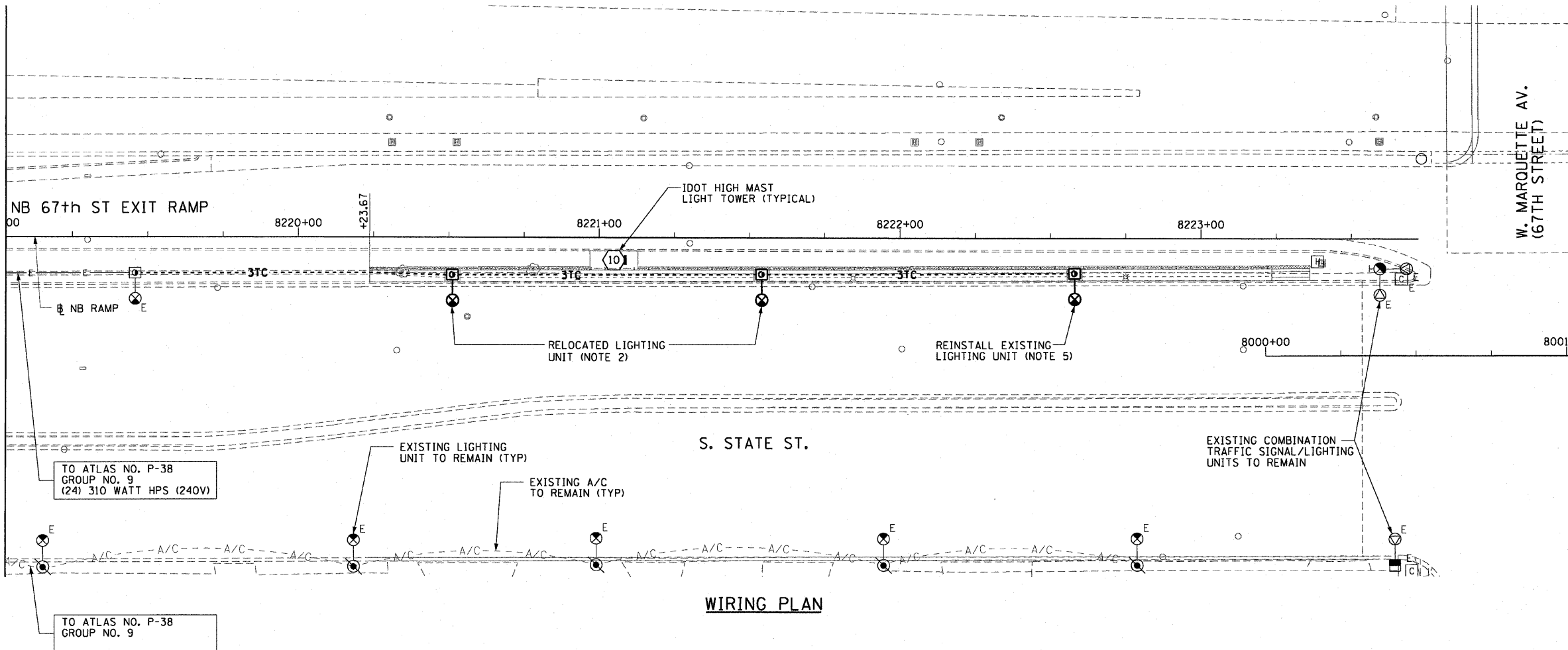
**EXISTING PLAN
 PROPOSED CONDUIT AND
 FOUNDATION PLAN**

SCALE: 1"=20'
 DATE: JANUARY 14, 2009

DRAWN BY: JCM
 CHECKED BY: JPC

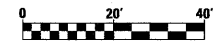
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	27
STA. 8220+23.67		TO STA. 8222+75		
FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT
(1818, 1919, 1919.15)		I-11		62983



NOTES:

1. SEE DRAWINGS E-1 AND E-2 FOR GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
2. EXISTING GROUND MOUNTED LIGHTING UNITS TO BE REMOVED, CLEANED, PAINTED, PROVIDED WITH NEW LAMPS AND BE INSTALLED ON TOP OF THE NEW KNEE WALL. SEE STRUCTURAL DRAWINGS FOR KNEE WALL FOUNDATION DETAILS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.
3. ROUTE ALL PROPOSED LIGHTING CIRCUIT CABLE SHOWN ON THIS DRAWING IN CONDUIT SHOWN ON THE PROPOSED CONDUIT AND FOUNDATION PLAN, DRAWING E-3.
4. EXISTING REGULATORY SIGNS SHALL BE REINSTALLED ON LIGHT POLES AS DIRECTED BY THE COMMISSIONER.
5. EXISTING LIGHTING UNIT REMOVED UNDER CONTRACT 60A62 TO BE CLEANED, PAINTED, PROVIDED WITH NEW LAMP AND BE INSTALLED ON TOP OF THE NEW KNEE WALL. SEE STRUCTURAL DRAWINGS FOR KNEE WALL FOUNDATION DETAILS. REFER TO SPECIAL PROVISIONS FOR ADDITIONAL REQUIREMENTS.



E-4

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

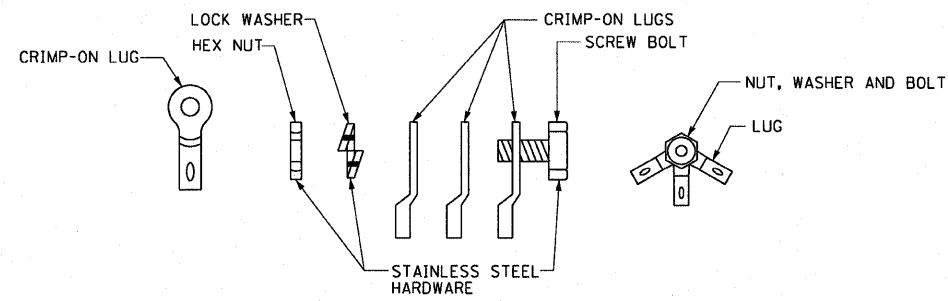
WIRING PLAN

SCALE: 1"=20'
 DATE: JANUARY 14, 2009

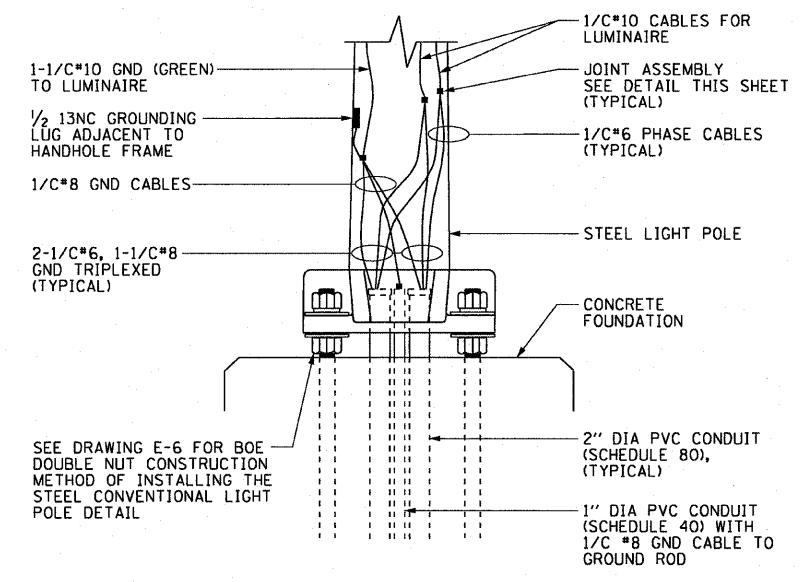
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 CHECKED BY: JPC

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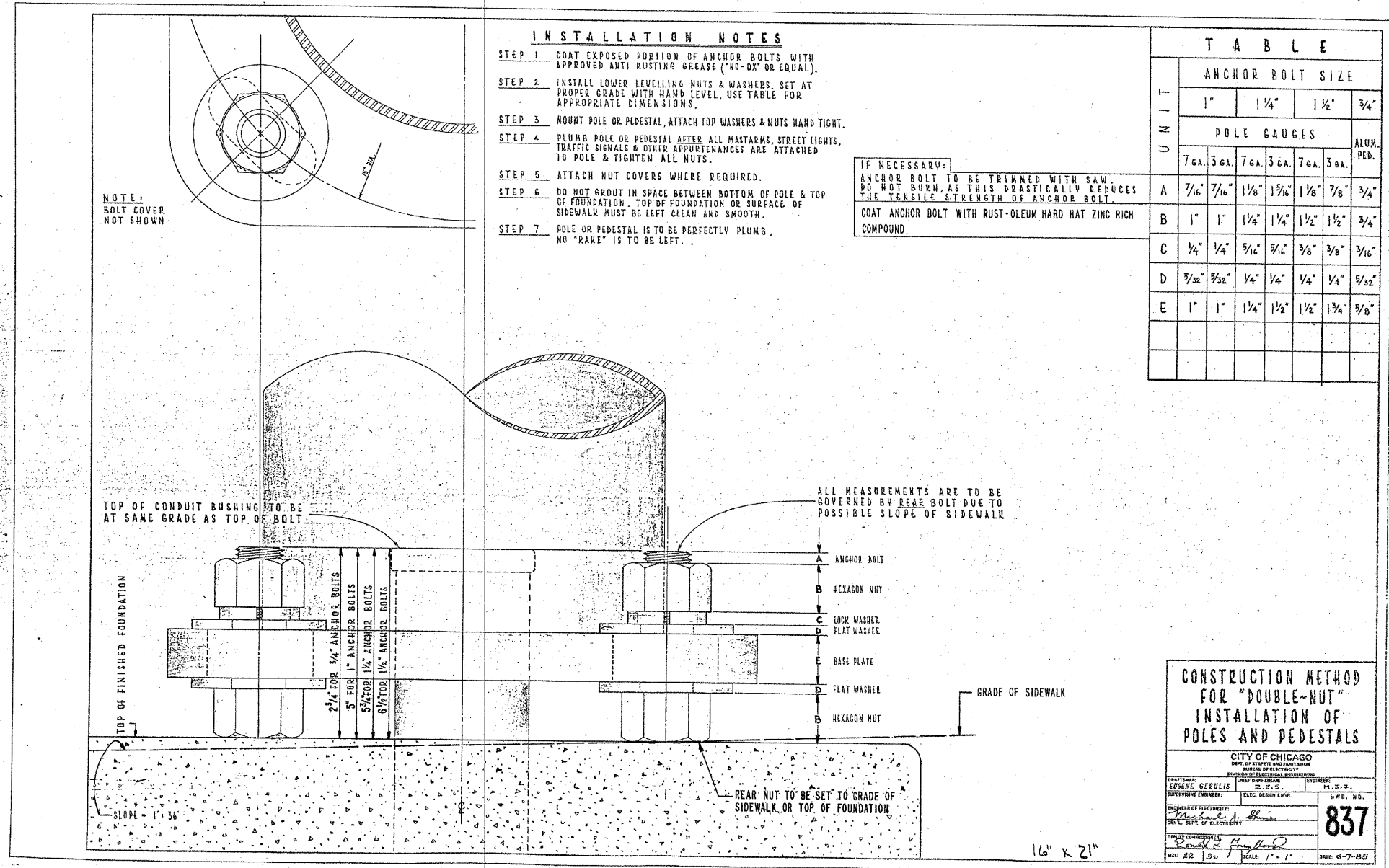
JOINT ASSEMBLY DETAILS
NOT TO SCALE



WALL MOUNTED POLE BASE WIRING DETAIL
NOT TO SCALE

- NOTES:**
1. SEE DRAWINGS E-1 AND E-2 FOR CDOT ELECTRICAL GENERAL NOTES, SYMBOLS AND ABBREVIATIONS.
 2. SEE PLAN DRAWING E-3 FOR THE PROPOSED CONDUIT ROUTING.

REVISIONS	
NAME	DATE



NOTES:

1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

STANDARD BOE DETAILS

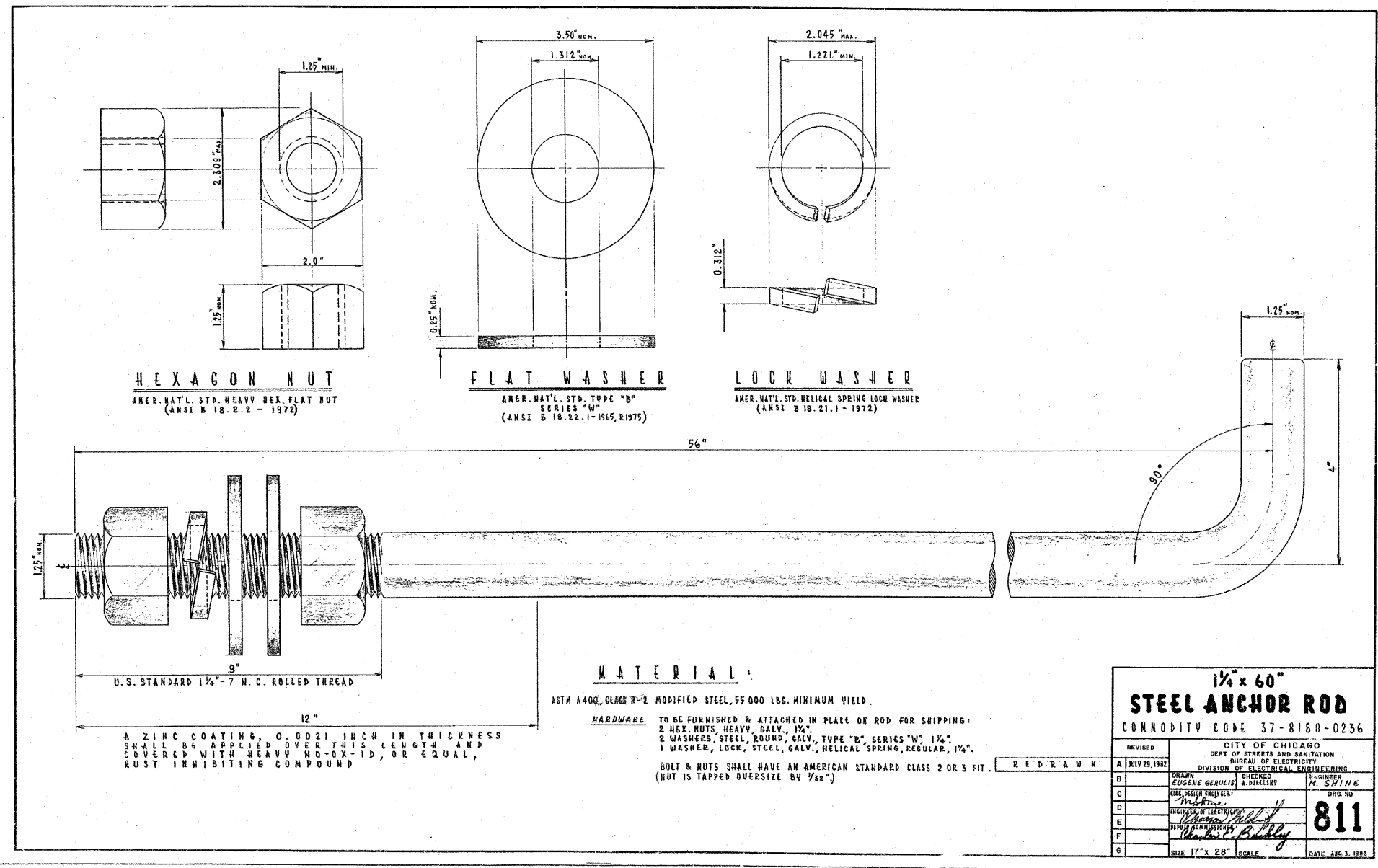
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DATE: JANUARY 14, 2009

DRAWN BY: HAR
CHECKED BY: JPC

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	•	COOK	45	30
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	
•(1818, 1919, 1919.15) 1-11		62983		

NOTES:
 1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



HEXAGON NUT
 AMER. NAT'L. STD. HEAVY HEX. FLAT NUT
 (ANSI B 18.2.2 - 1972)

FLAT WASHER
 AMER. NAT'L. STD. TYPE "B" SERIES "W"
 (ANSI B 18.22.1-1965, R1975)

LOCK WASHER
 AMER. NAT'L. STD. HELICAL SPRING LOCK WASHER
 (ANSI B 18.21.1 - 1972)

MATERIAL:

ASTM A400, GRADE X-2 MODIFIED STEEL, 55 000 LBS. MINIMUM YIELD.

HARDWARE TO BE FURNISHED & ATTACHED IN PLACE ON ROD FOR SHIPPING:
 2 HEX. NUTS, HEAVY, GALV., 1/4"
 2 WASHERS, STEEL, ROUND, GALV., TYPE "B", SERIES "W", 1/4"
 1 WASHER, LOCK, STEEL, GALV., HELICAL SPRING, REGULAR, 1/4"
 BOLT & NUTS SHALL HAVE AN AMERICAN STANDARD CLASS 2 OR 3 FIT.
 (NUT IS TAPPED OVERSIZE BY 1/32")

A ZINC COATING, 0.0021 INCH IN THICKNESS SHALL BE APPLIED OVER THIS LENGTH AND COVERED WITH HEAVY NO-OX-ID, OR EQUAL, RUST INHIBITING COMPOUND

1/4" x 60"
STEEL ANCHOR ROD
 COMMODITY CODE 37-8180-0236

REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING	
A	2017 25, 1982	DESIGNED BY: EUGENE GERULIS
B		CHECKED BY: M. SWINE
C		DATE: 10/15/82
D		DRG. NO. 811
E		DATE: 10/15/82
F		DATE: 10/15/82
G		DATE: 10/15/82

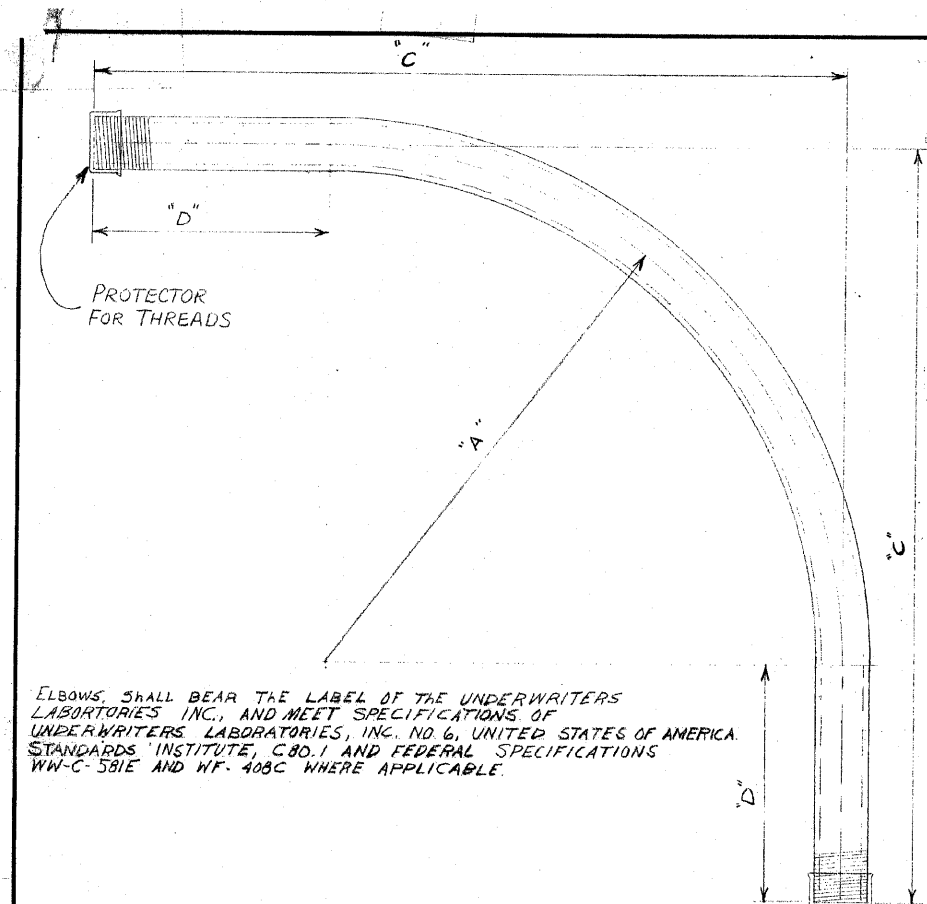
AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STANDARD BOE DETAILS
 SCALE: NOT TO SCALE
 DATE: JANUARY 14, 2009
 DRAWN BY: HAR
 CHECKED BY: JPC

NOTES:

- THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



ELBOWS SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES INC., AND MEET SPECIFICATIONS OF UNDERWRITERS LABORATORIES, INC. NO. 6, UNITED STATES OF AMERICA. STANDARDS INSTITUTE, C80.1 AND FEDERAL SPECIFICATIONS WW-C-581E AND WF-408C WHERE APPLICABLE.

NOTE:
TWO THREAD PROTECTORS TO BE FURNISHED ON EACH ELBOW, PROTECTOR TO COVER A MINIMUM OF TEN THREADS.

CONDUIT SIZE	DIMENSIONS			COMMODITY CODE
	"A"	"C"	"D"	
1 1/4"	24"	35"	11"	09-4001-0510
1 1/2"	24"	35"	11"	09-4001-0520
2"	24"	35"	11"	09-4001-4126
2 1/2"	24"	35"	11"	09-4001-4128
3"	24"	35"	11"	09-4001-4230
4"	24"	35"	11"	09-4001-0000

B SPECIFICATIONS REVISED
A REVISED DIMENSIONS ON 3" x 4" CONDUIT L.P.
ELBOW, CONDUIT, RIGID GALVANIZED STEEL, LARGE RADIUS

REVISED	CITY OF CHICAGO	
A 7-22-71	DEPT. OF STREETS AND SANITATION	
B 4-3-79	BUREAU OF ELECTRICITY	
C	DIVISION OF ELECTRICAL ENGINEERING	
D	DRAWN LON RUDY	CHECKED M.S.
E	ENGINEER M. SHINE	
F	DRG. NO. 11825	
G	DEPT. COMM. DEPT. COMM.	DATE 6-2-71

SIZE 8 1/2" x 14" SCALE: 3/16" DATE 6-2-71

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

STANDARD BOE DETAILS

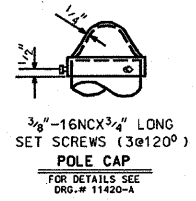
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 DATE: JANUARY 14, 2009

DRAWN BY: HAR
 CHECKED BY: JPC

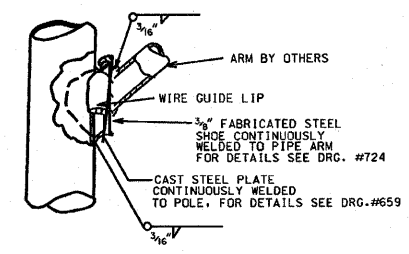
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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	32
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
*(1818, 1919, 1919.15) 1-11				62983

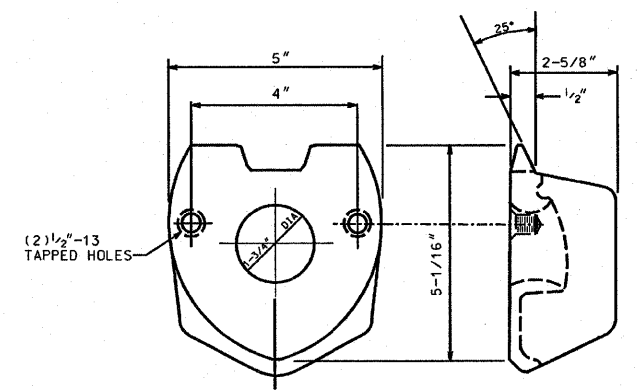
NOTES:
 1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



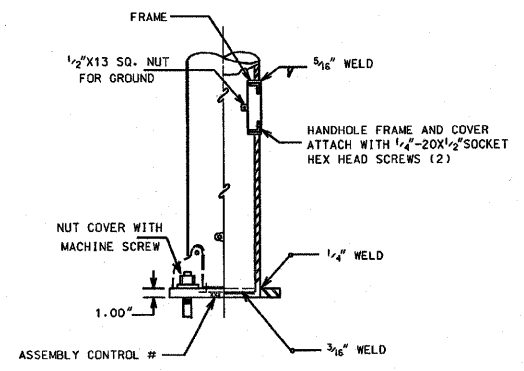
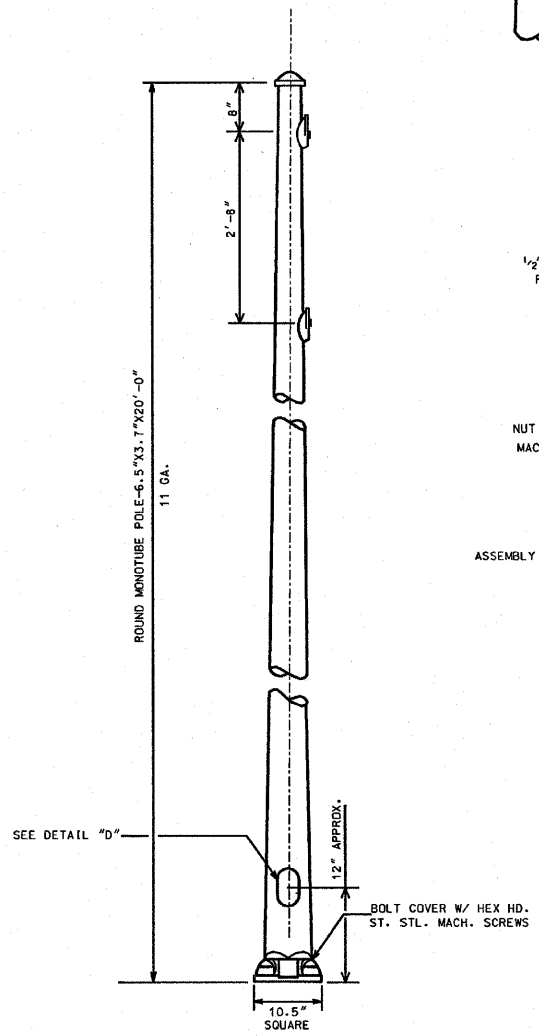
3/8" - 16NCX3/4" LONG SET SCREWS (3@120°)
POLE CAP
 FOR DETAILS SEE DRG. # 11420-A



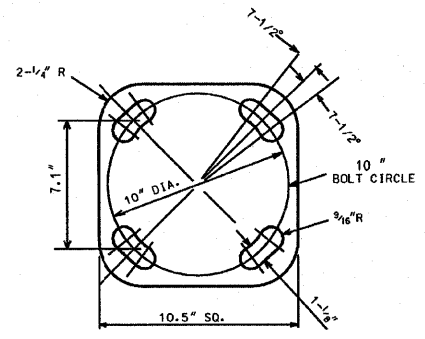
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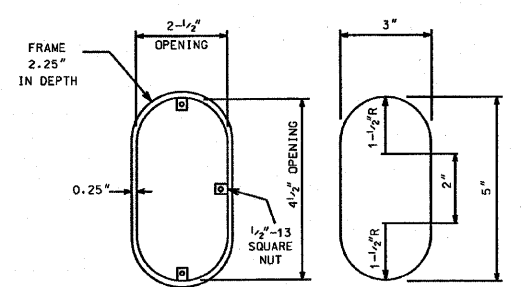
2 BOLT MAST ARM ATTACHMENT
 FOR DETAILS SEE DRG. # 659 MATERIAL: CAST STEEL



DETAIL "D"



DETAIL "A"
 BOLT SLOTS



FRAME **DOOR**
HANDHOLE DETAIL

3.7"x6.5" STEEL/20'-0" POLE 11 GAUGE		
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
DRAFTSMAN: ROBERT IVY	CHIEF DRAFTSMAN: ROBERT CARTER	ENGINEER: RON POOL
SUPERVISING ENGINEER:	ELEC. DESIGN ENGR.:	DWG. NO.
ENGINEER OF ELECTRICITY:		652
DEPT. Supt. OF ELECTRICITY:		10-03-01
DEPUTY COMMISSIONER:		

REVISIONS	
NAME	DATE

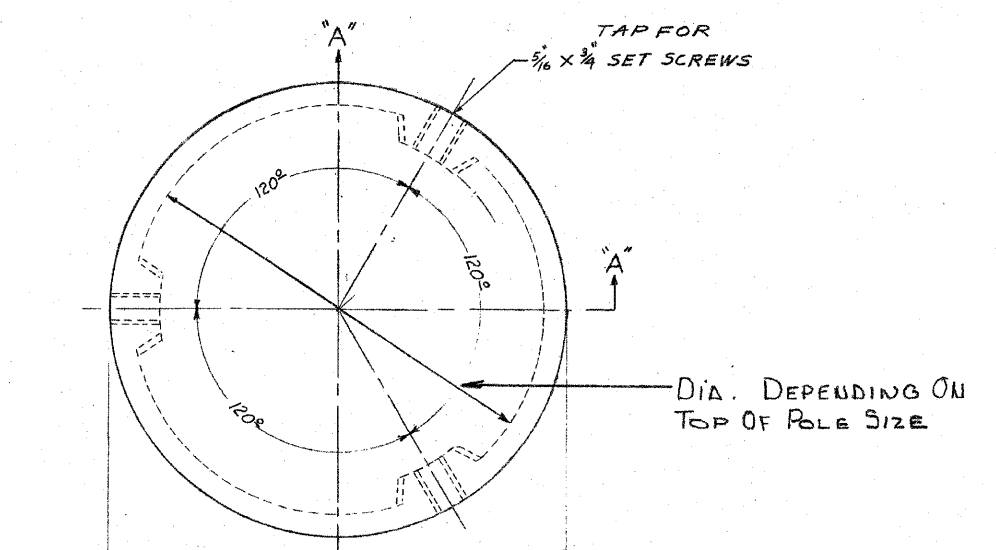
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STANDARD BOE DETAILS
 SCALE: NOT TO SCALE DRAWN BY: HAR
 DATE: JANUARY 14, 2009 CHECKED BY: JPC

AECOM

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F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	33
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
•(1818, 1919, 1919.15) 1-11				62983

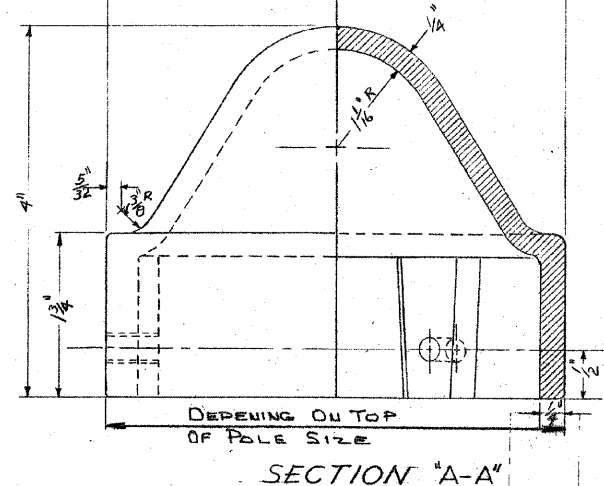
NOTES:
 1. THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



MATERIAL - CAST IRON OR CAST ALUMINUM

NOTES

- A $3\frac{3}{8} - 16 \times \frac{3}{4}$ STAINLESS STEEL SET SCREWS TO BE FURNISHED WITH EACH TOP
- B FOR USE ON THE FOLLOWING SIZE POLES:
 27'-6" - 3 AND 7 GAUGE
 29'-6" - 3 AND 7 GAUGE
 32'-6" - 3 AND 7 GAUGE
 34'-6" - 3 AND 7 GAUGE 10" & 12 1/2" BASE DIAM.



CAST POLETOP FOR STEEL POLE

REVISED	CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING		
A 2-13-85	DRAWN	CHECKED	ENGINEER
B	<i>D. NELLA</i>	<i>A. D. Kelly</i>	<i>A. D. Kelly</i>
C			
D			
E			11420-A
F			
G			

SIZE 16" X 21" NOT TO SCALE DATE 10-9-89

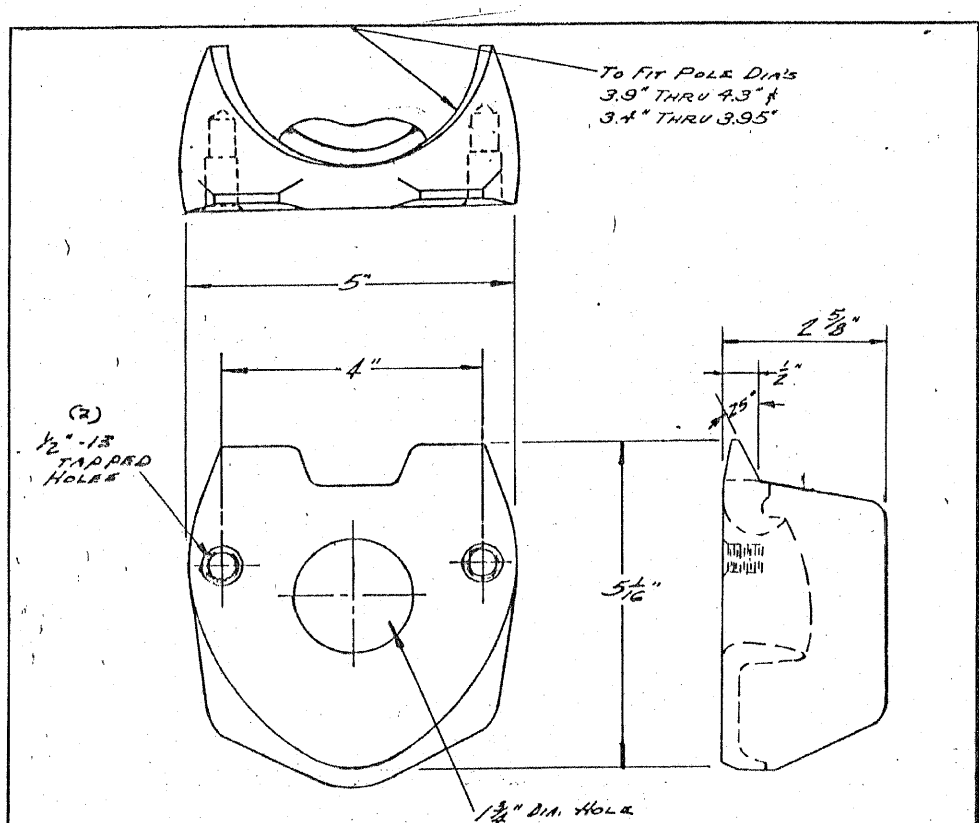
AECOM

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION F.A.I. 90/94 (DAN RYAN EXPRESSWAY) 71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
NAME	DATE	
		STANDARD BOE DETAILS

SCALE: NOT TO SCALE
 DATE: JANUARY 14, 2009
 DRAWN BY: HAR
 CHECKED BY: JPC

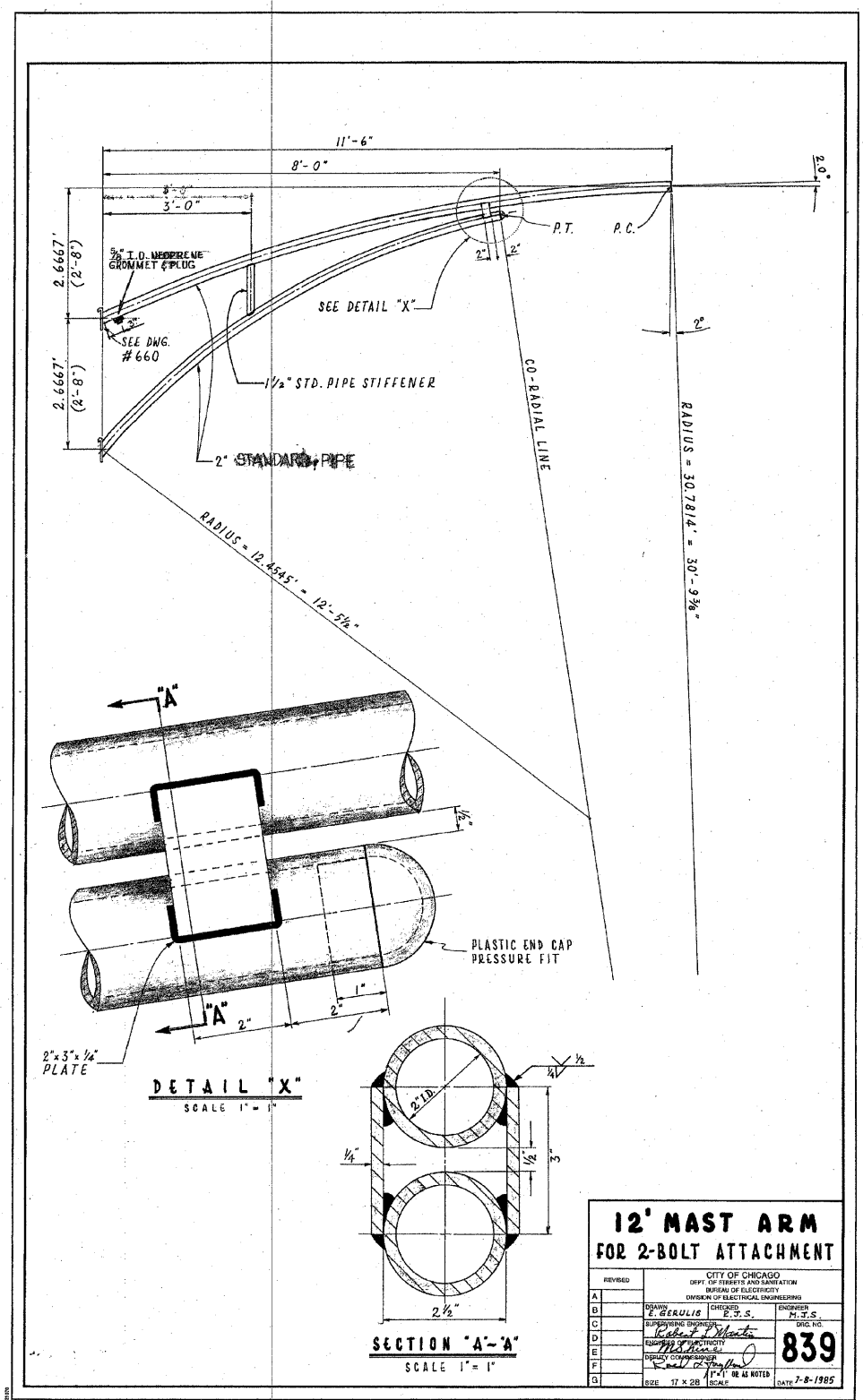
NOTES:

- THIS IS A STANDARD DRAWING MADE BY THE CITY OF CHICAGO, DEPARTMENT OF STREETS AND SANITATION, BUREAU OF ELECTRICITY. THIS DRAWING IS INCLUDED FOR THE CONVENIENCE OF THE CONTRACTOR.



MATERIAL: CAST STEEL

A J.O.C. MATERIAL NOTE ADDED.			
2 BOLT MAST ARM ATTACHMENT POLE PLATE DETAILS			
CITY OF CHICAGO DEPT. OF STREETS AND SANITATION DIVISION OF ELECTRICAL ENGINEERING			
REVISED	5-27-76	DRAWN J. WAHLFELDT	CHECKED U. BORE
A B C D E F G		ENGINEER U. BORE	
		DRG. NO. 659	
		DEPT. OF CONST. W. H. KELLEY	
	SIZE 8 1/2" x 14"	SCALE	DATE 10-25-66



12' MAST ARM FOR 2-BOLT ATTACHMENT			
<small>CITY OF CHICAGO DEPT. OF STREETS AND SANITATION BUREAU OF ELECTRICITY DIVISION OF ELECTRICAL ENGINEERING</small>			
REVISED		DRAWN E. BEROLTS	ENGINEER M. J. S.
A		PROJECT NO. 839	
B		DATE 7-8-1985	
C		SIZE 17 x 28	
D		DATE 7-8-1985	
E		DATE 7-8-1985	
F		DATE 7-8-1985	
G		DATE 7-8-1985	

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

STANDARD BOE DETAILS

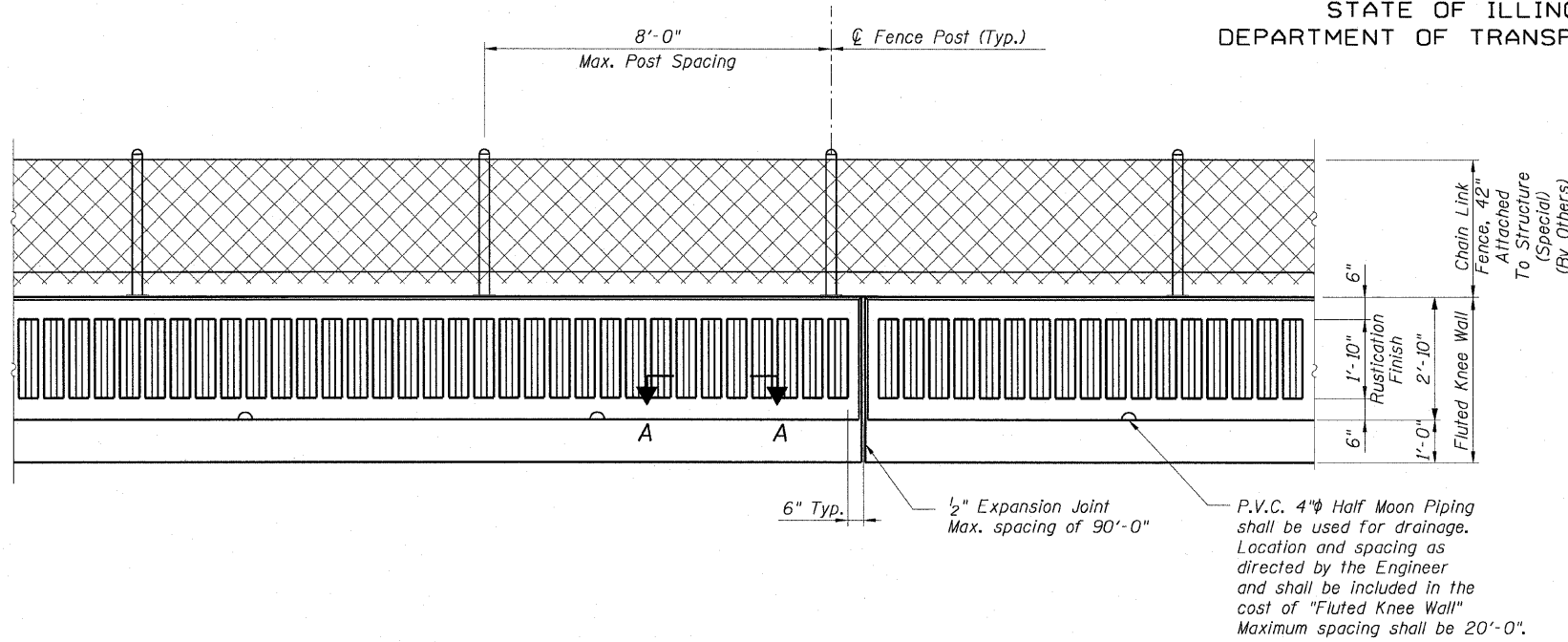
SCALE: NOT TO SCALE
DATE: JANUARY 14, 2009

DRAWN BY: HAR
CHECKED BY: JPC

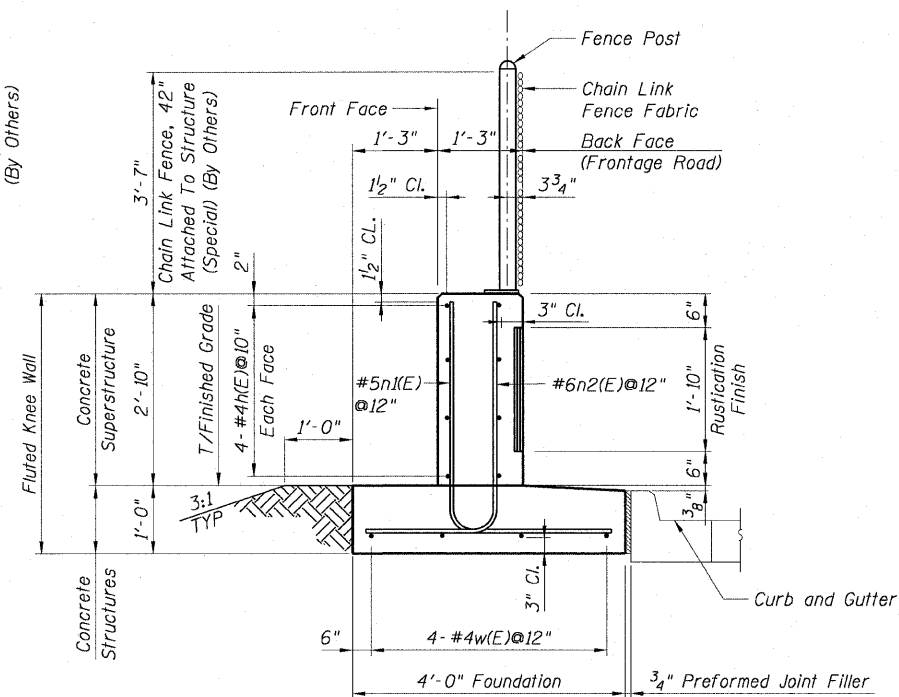
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION *	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 35
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1818, 1919, 1919.15)		I-11		

62983

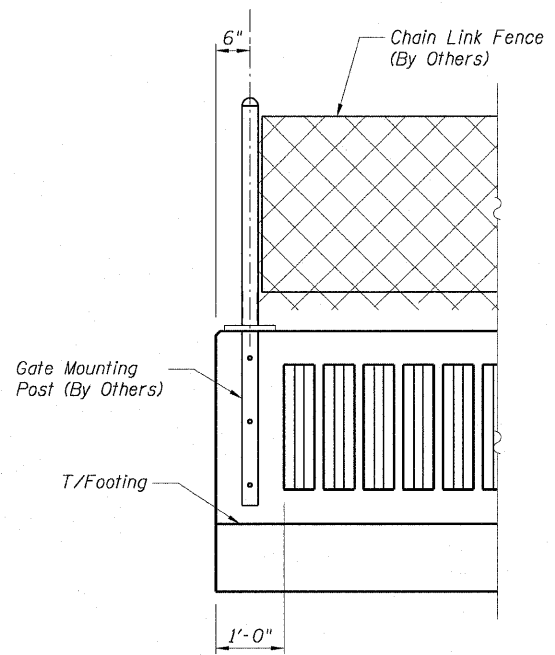


BACK FACE ELEVATION - FLUTED KNEE WALL AND CHAIN LINK FENCE

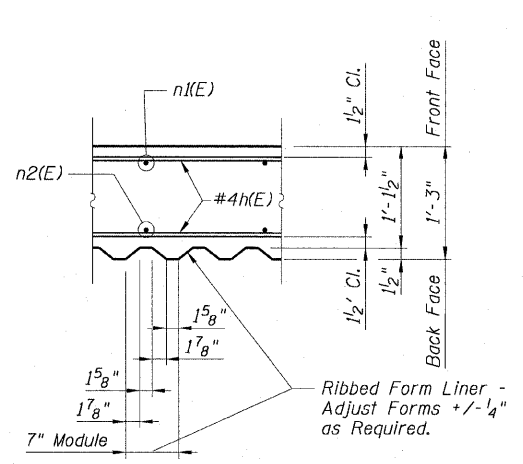


TYPICAL SECTION
FLUTED KNEE WALL

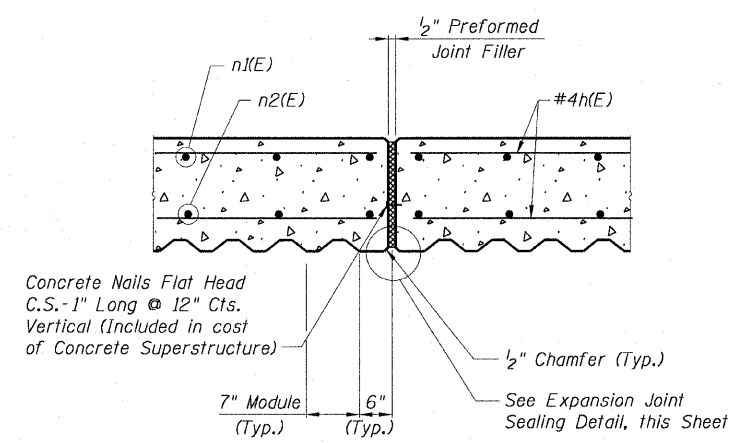
- NOTES:**
1. Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
 2. Concrete: $f'c = 3500$ psi
 3. Fluted knee wall shall be paid for per foot as "Fluted Knee Wall." Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" (stem), "Concrete Structures" (foundation), reinforcement bars (epoxy coated), rustication finish for fluted knee walls, protective coat, expansion joint filler and sealing compound.
 4. At locations where Fluted Knee Wall abuts a rigid structure, a 1/2" thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. 3/4" PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
 5. Quantities shown in "Bill of Material" are for one (1) foot of "Fluted Knee Wall".
 6. Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
 7. Unless noted otherwise, Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall.
 8. Minimum lap length for #4 bars shall be 1'-8".



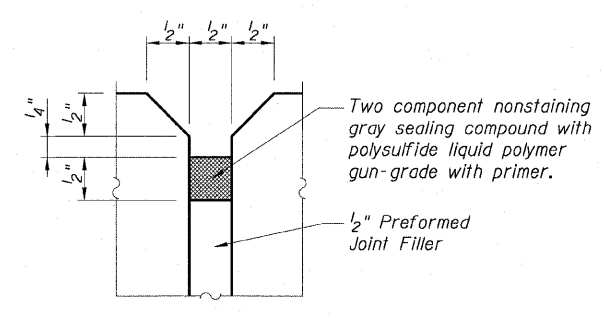
RUSTICATION DETAILS
AT GATE LOCATIONS



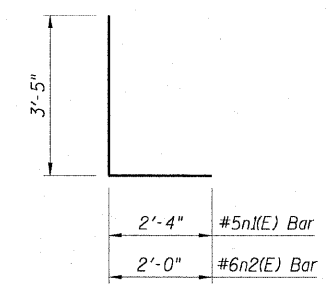
SECTION A-A



EXPANSION JOINT DETAIL



EXPANSION JOINT
SEALING DETAIL



BARS n1(E) and n2(E)

QUANTITIES PER FOOT OF FLUTED KNEE WALL		
ITEM	UNIT	QUANTITY
Reinforcement Bars, Epoxy Coated	Pound	23
Concrete Superstructure	Cu. Yd.	0.14
Concrete Structures	Cu. Yd.	0.15
Rustication Finish	Sq. Ft.	1.8
Protective Coat	Sq. Yd.	0.62

REVISIONS	
NAME	DATE

LEGEND:

- Chain Link Fabric
- Rustication Finish
- Earth
- Concrete

Sheet SI of 7

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

FLUTED KNEE WALL STANDARD DETAILS

SCALE: None
DATE: JANUARY 14, 2009

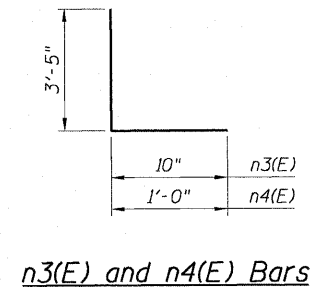
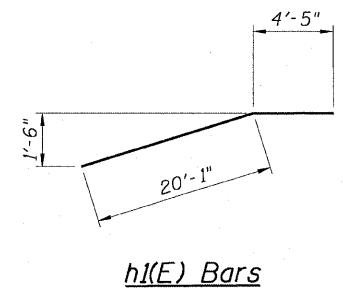
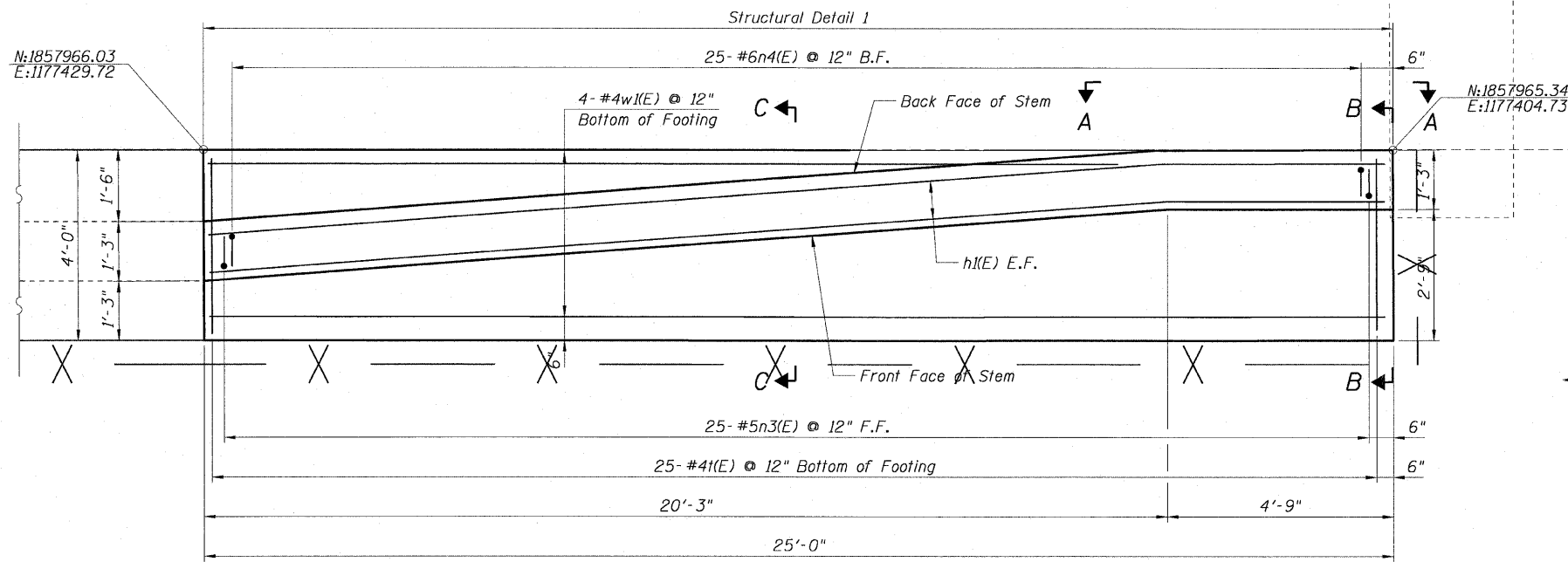
DRAWN BY: CHD
CHECKED BY: MJP

AECOM

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

W. 71ST STREET

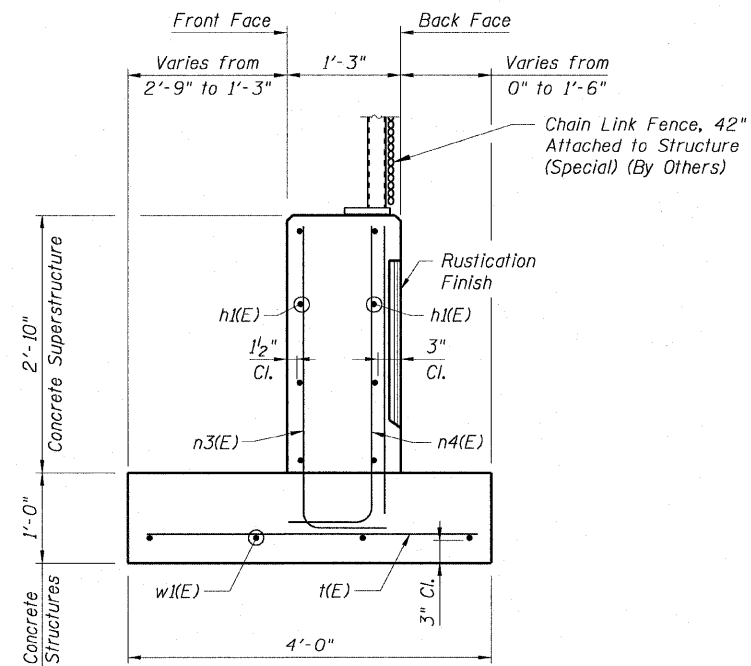
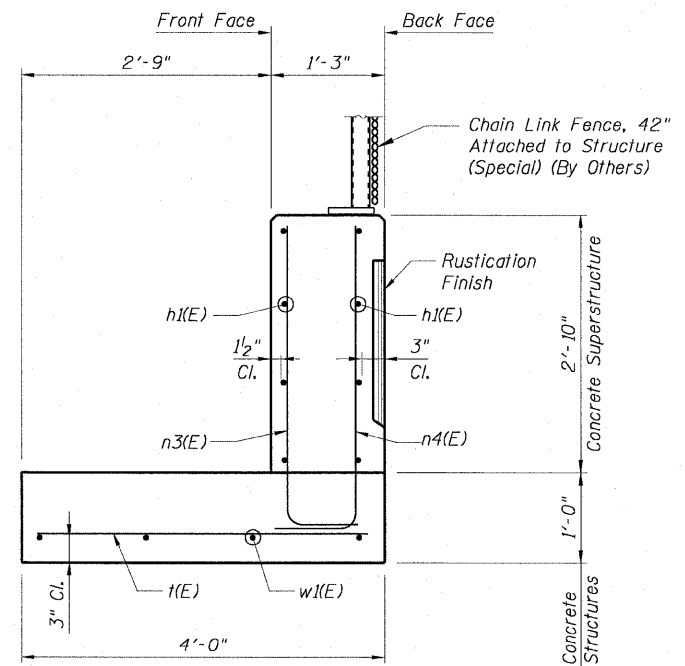
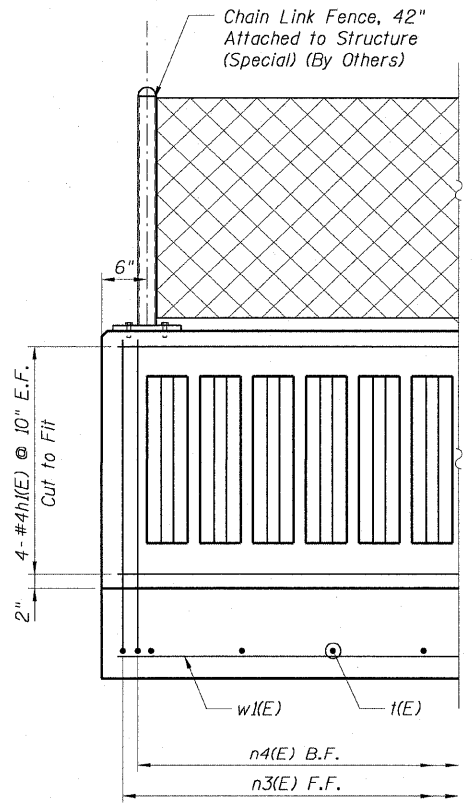
F.A.I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94		COOK	45	36
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
(1818, 1919, 1919.15)		1-11		
				62983



Bar	No.	Size	Length	Shape
h(E)	8	#4	24'-6"	
n3(E)	25	#5	4'-3"	
n4(E)	25	#6	4'-5"	
w4(E)	4	#4	24'-8"	
t(E)	25	#4	3'-8"	

- NOTES:**
- For location of Structural Detail 1, see Civil Drawings.
 - For Typical Section and details of Fluted Knee Wall see Sheet S1 of 7.
 - Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
 - Concrete: $f'c = 3500$ psi
 - Structural Detail 1 shall be paid for per foot as "Fluted Knee Wall". Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" stem, "Concrete Structures" foundation, reinforcement bars (epoxy coated), rustication finish, protective coat and expansion joint filler and sealing compound.
 - At locations where Fluted Knee Wall abuts a rigid structure, a $\frac{1}{2}$ " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
 - Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 1.
 - Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
 - Minimum lap for #4 bars shall be 1'-8".
 - BF = Back Face
EF = Each Face
FF = Front Face

FOOTING PLAN



PARTIAL ELEVATION A-A

SECTION B-B

SECTION C-C

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STRUCTURAL DETAIL 1
71ST STREET WINGWALL INTERFACE DETAILS
S. STATE STREET

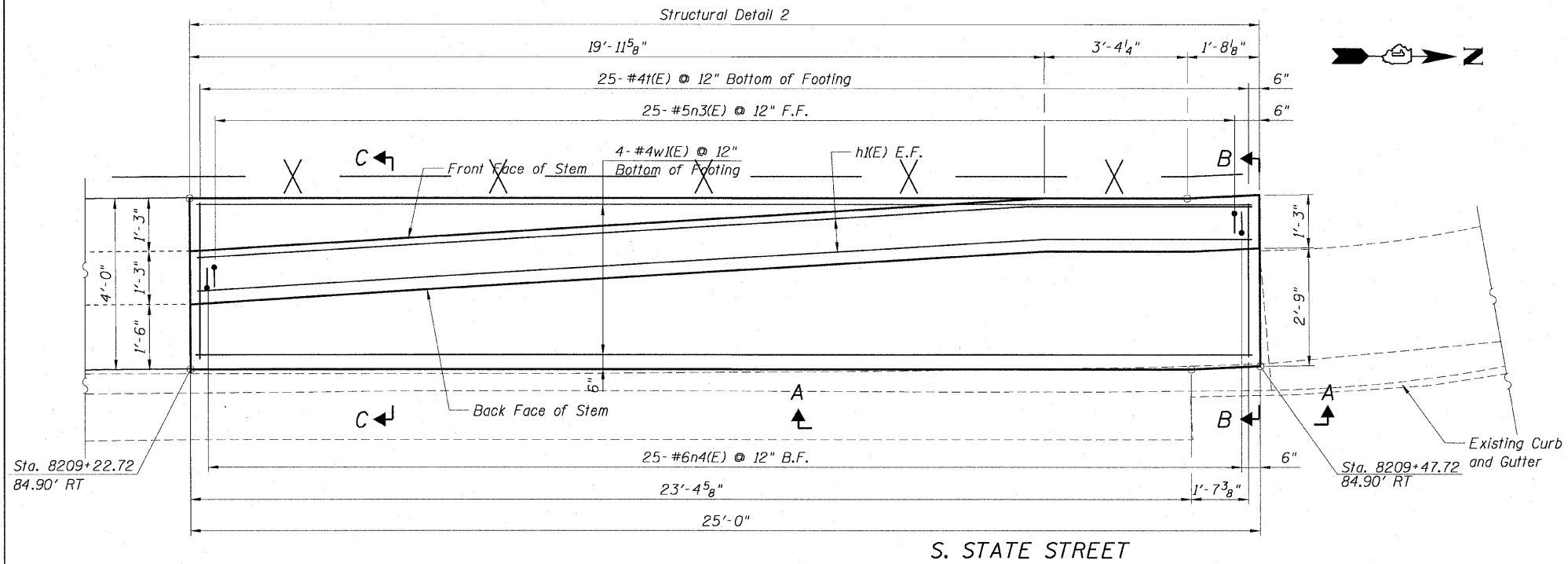
SCALE: None
DATE: JANUARY 14, 2009

DRAWN BY: CHD/KWT
CHECKED BY: MJP

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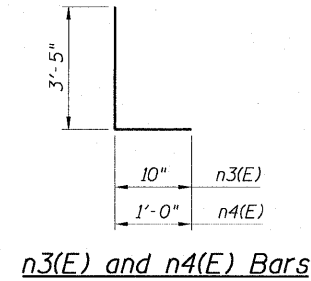
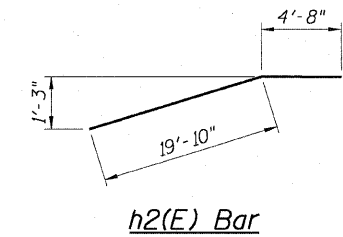
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 37
STA. 8209+22.72 TO STA. 84.90' RT		FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT		
		•(1818, 1919, 1919.15) 1-11 62983		



FOOTING PLAN

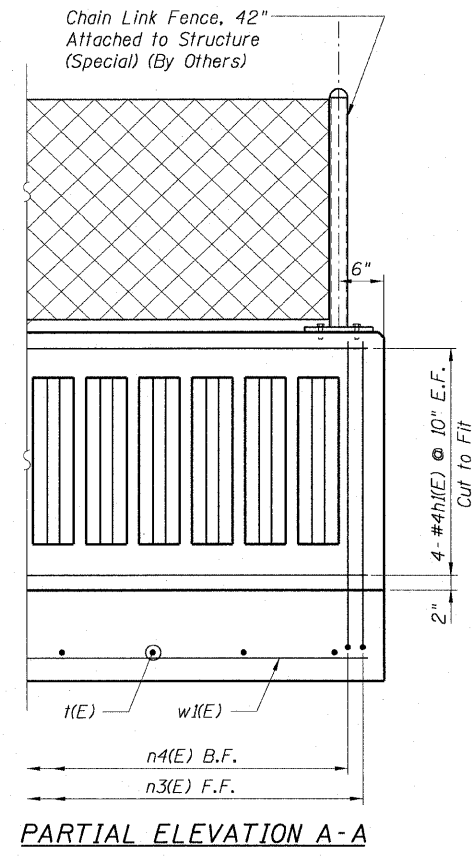
S. STATE STREET



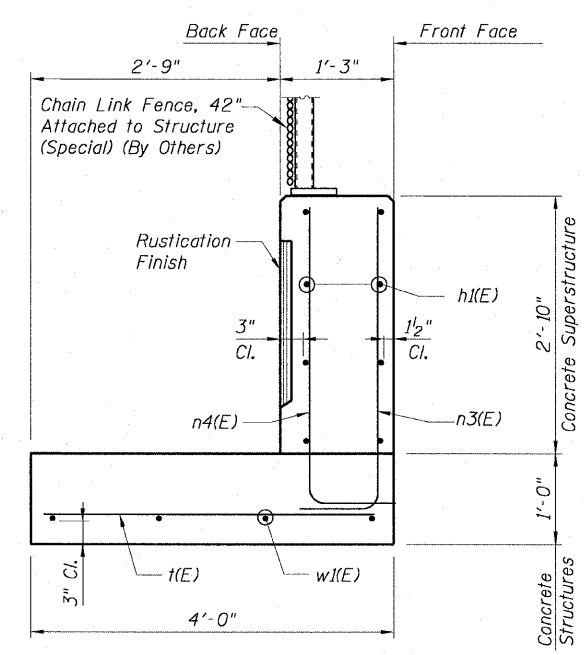
Bar	No.	Size	Length	Shape
h2(E)	8	#4	24'-6"	
n3(E)	25	#5	4'-3"	
n4(E)	25	#6	4'-5"	
w1(E)	4	#4	24'-8"	
t(E)	25	#4	3'-8"	

NOTES:

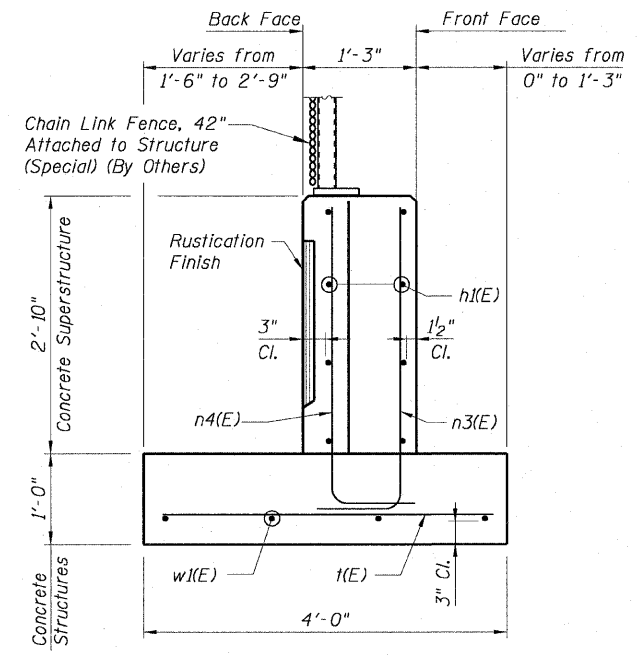
- For location of Structural Detail 2, see Civil Drawings.
- For Typical Section and details of Fluted Knee Wall see Sheet S1 of 7.
- Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- Concrete: $f'c = 3500$ psi
- Structural Detail 2 shall be paid for per foot as "Fluted Knee Wall". Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" stem, "Concrete Structures" foundation, reinforcement bars (epoxy coated), rustication finish, protective coat and expansion joint filler and sealing compound.
- At locations where Fluted Knee Wall abuts a rigid structure, a $\frac{1}{2}$ " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
- Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 2.
- Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
- Minimum lap for #4 bars shall be 1'-8".
- BF = Back Face
EF = Each Face
FF = Front Face



PARTIAL ELEVATION A-A



SECTION B-B



SECTION C-C

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STRUCTURAL DETAIL 2
W. 60TH STREET DETAILS
S. STATE STREET

SCALE: None
DATE: JANUARY 14, 2009

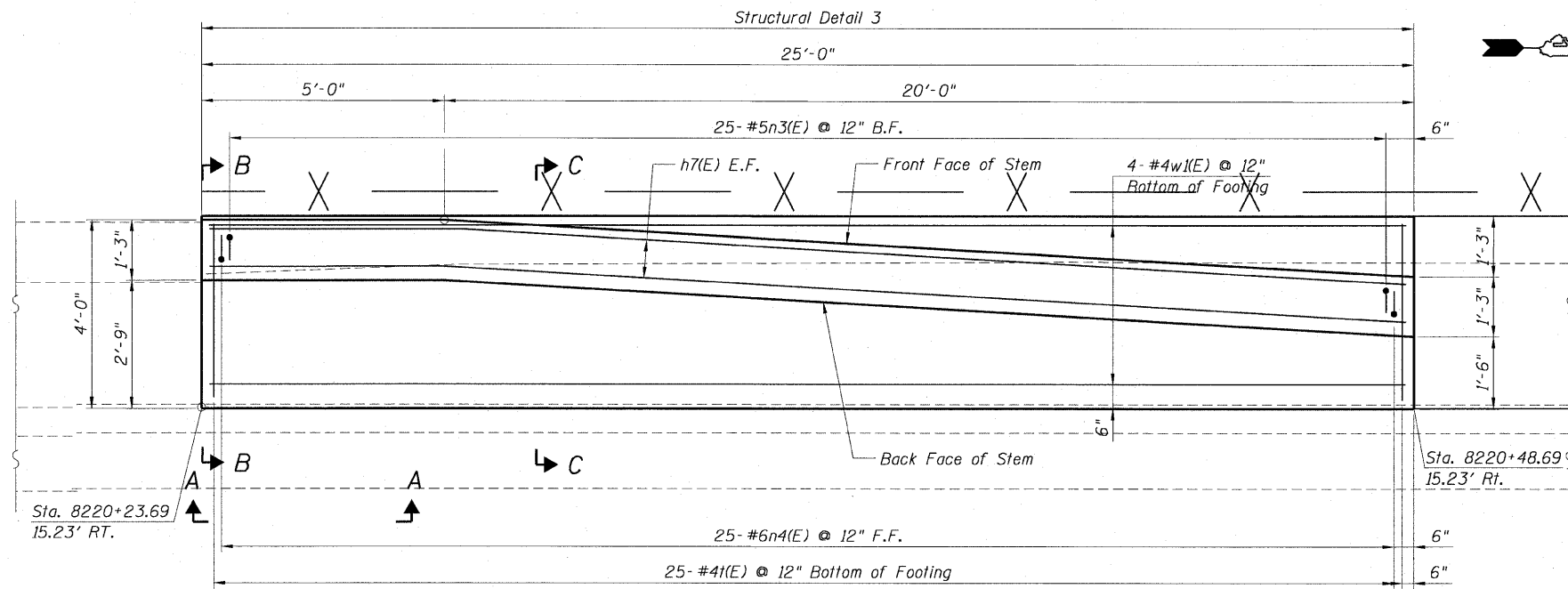
DRAWN BY: CHD/KWT
CHECKED BY: MJP

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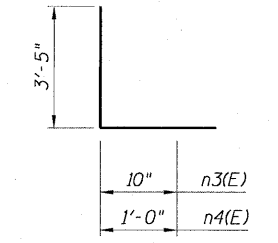
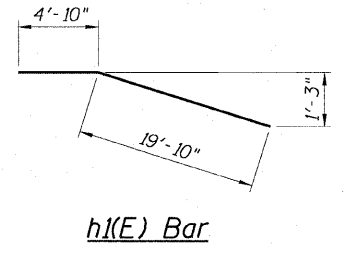
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 38
STA.	TO STA.			
FED. ROAD DIST. NO. 1 ILLINOIS			FED. AID PROJECT	
•(1818, 1919, 1919.15) 1-11			62983	



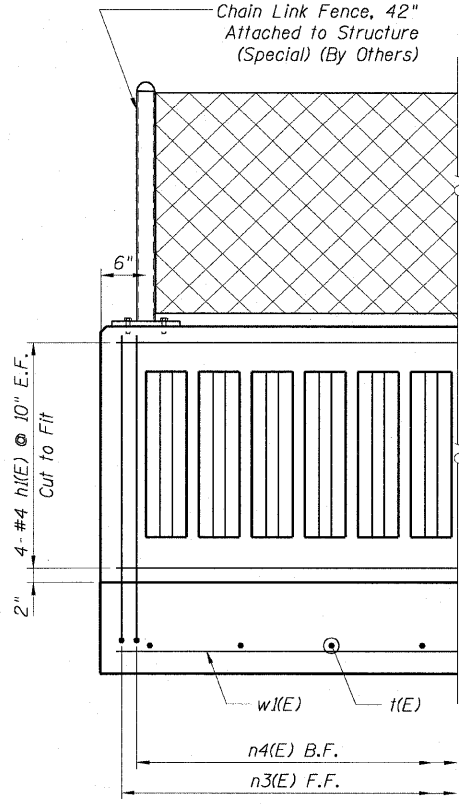
S. STATE STREET
FOOTING PLAN



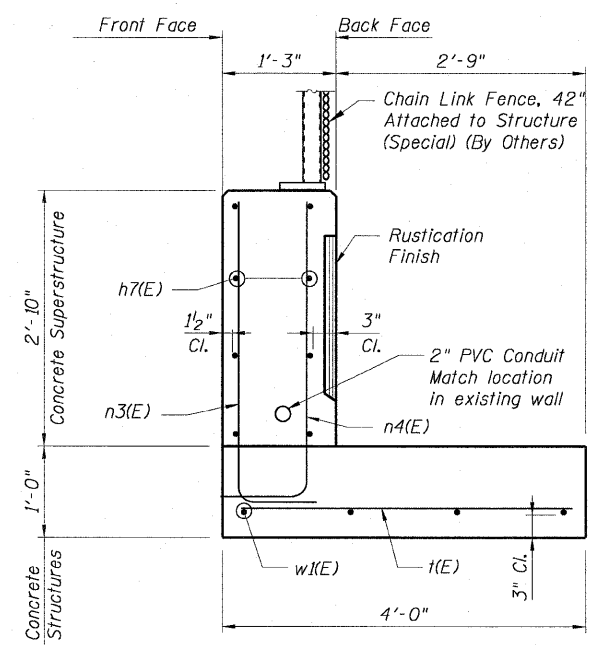
BAR LIST

Bar	No.	Size	Length	Shape
h1(E)	8	#4	24'-8"	
n3(E)	25	#5	4'-3"	
n4(E)	25	#6	4'-5"	
w1(E)	4	#4	24'-8"	
t(E)	25	#4	3'-8"	

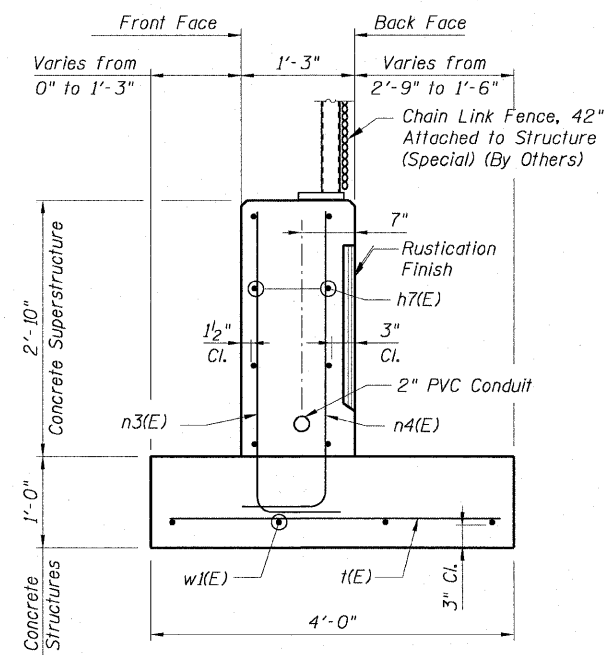
- NOTES:**
- For location of Structural Detail 3, see Civil Drawings.
 - For Typical Section and details of Fluted Knee Wall see Sheet S1 of 7.
 - Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
 - Concrete: $f'c = 3500$ psi
 - Structural Detail 3 shall be paid for per foot as "Fluted Knee Wall". Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" stem, "Concrete Structures" foundation, reinforcement bars (epoxy coated), rustication finish, protective coat and expansion joint filler and sealing compound.
 - At locations where Fluted Knee Wall abuts a rigid structure, a $\frac{1}{2}$ " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
 - Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 3.
 - Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
 - Minimum lap for #4 bars shall be 1'-8".
 - BF = Back Face
EF = Each Face
FF = Front Face



PARTIAL ELEVATION A-A



SECTION B-B



SECTION C-C

REVISIONS

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STRUCTURAL DETAIL 3
NEAR W. MARQUETTE AVENUE
(67TH STREET)
S. STATE STREET

SCALE: None
DATE: JANUARY 14, 2009

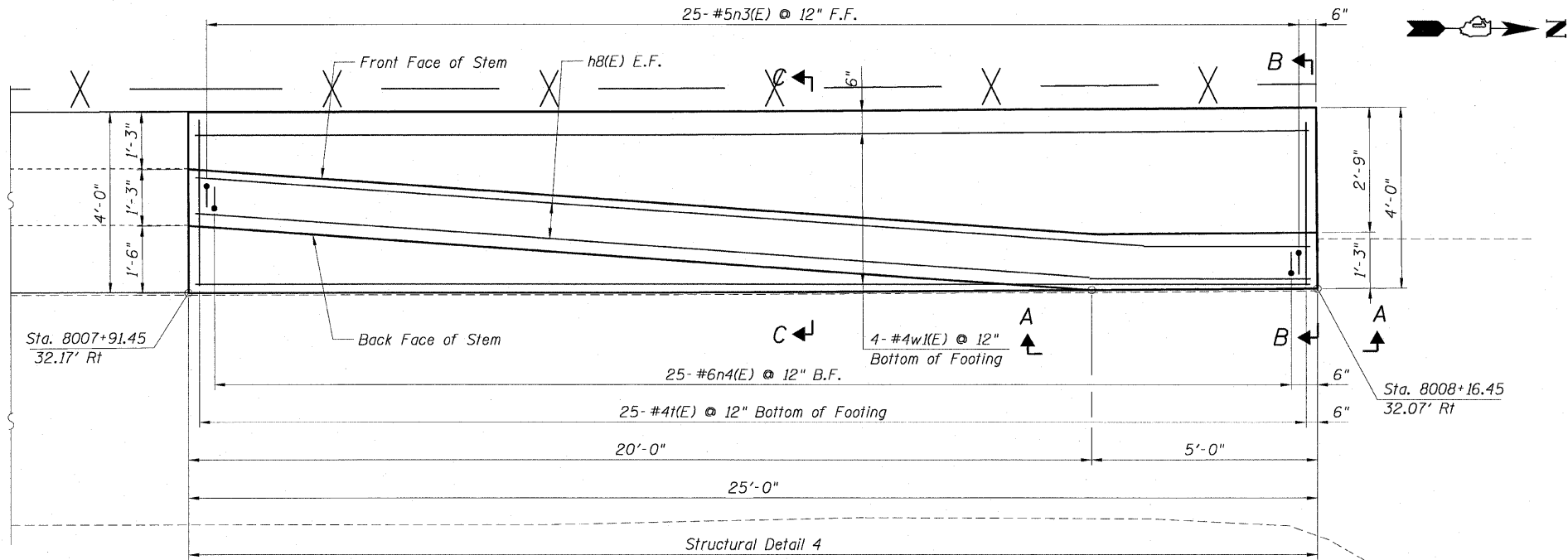
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CHECKED BY: MJP

AECOM

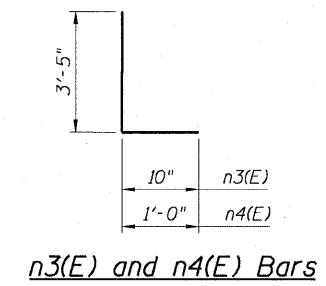
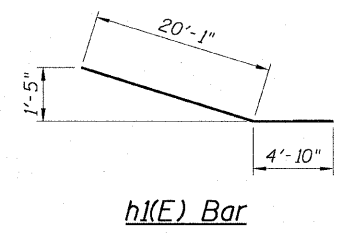
Sheet S4 of 7

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 39
STA. 8007+91.45 TO STA. 8008+16.45		FED. ROAD DIST. NO. 1 ILLINOIS		FED. AID PROJECT
•(1818, 1919, 1919.15) 1-11				62983

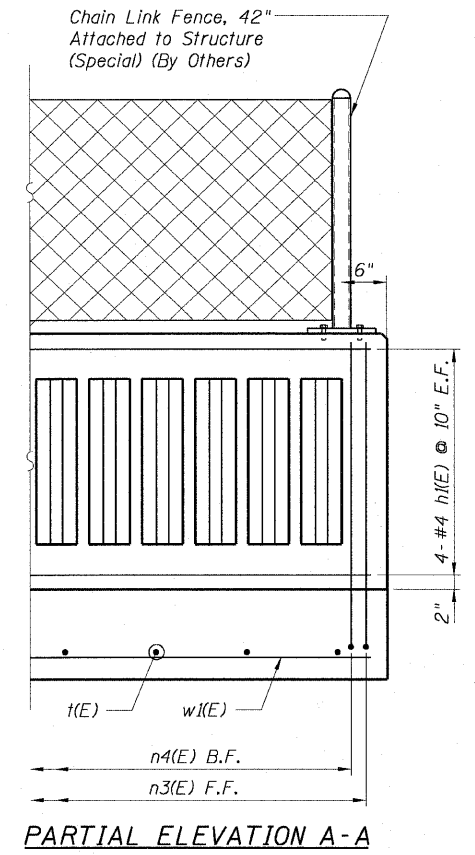


S. STATE ST.
FOOTING PLAN

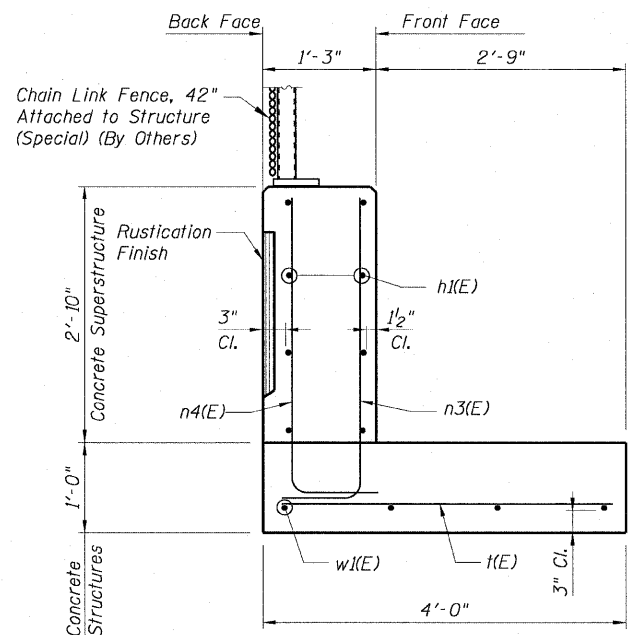


Bar	No.	Size	Length	Shape
h(E)	8	#4	24'-8"	
n3(E)	25	#5	4'-3"	
n4(E)	25	#6	4'-5"	
w(E)	4	#4	24'-8"	
t(E)	25	#4	3'-8"	

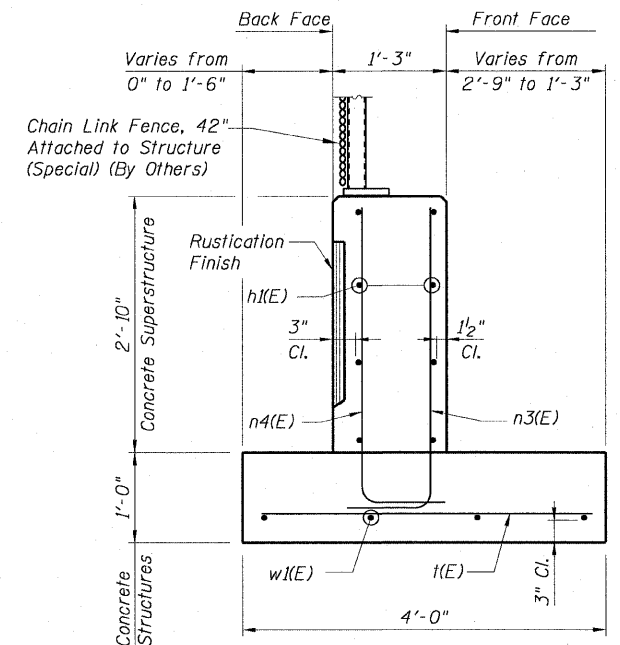
- NOTES:**
- For location of Structural Detail 4, see Civil Drawings.
 - For Typical Section and details of Fluted Knee Wall see Sheet S1 of 7.
 - Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
 - Concrete: $f'c = 3500$ psi
 - Structural Detail 4 shall be paid for per foot as "Fluted Knee Wall". Included in the cost of "Fluted Knee Wall" shall be "Concrete Superstructures" stem, "Concrete Structures" foundation, reinforcement bars (epoxy coated), rustication finish, protective coat and expansion joint filler and sealing compound.
 - At locations where Fluted Knee Wall abuts a rigid structure, a $\frac{1}{2}$ " thick preformed expansion joint filler (PJF) conforming to the shape of the structure shall be installed between the wall and the structure. $\frac{3}{4}$ " PJF shall be installed where Fluted Knee Wall footing abuts curb and gutter. The cost shall be included in "Fluted Knee Wall".
 - Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 4.
 - Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
 - Minimum lap for #4 bars shall be 1'-8".
 - BF = Back Face
EF = Each Face
FF = Front Face



PARTIAL ELEVATION A-A



SECTION B-B



SECTION C-C

AECOM

NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
STRUCTURAL DETAIL 4
EB SKYWAY DETAILS
STATE STREET

SCALE: None
DATE: JANUARY 14, 2009

DRAWN BY: CHD/KWT
CHECKED BY: MJP

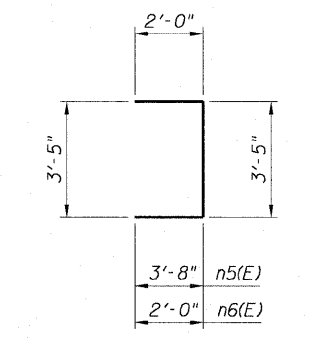
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.I. RTE. 90/94	SECTION	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 40
STA. TO STA.		ILLINOIS FED. AID PROJECT		
FED. ROAD DIST. NO. 1		•(1818, 1919, 1919.15) 1-11		
		62983		

BAR LIST FOR 1 FOUNDATION

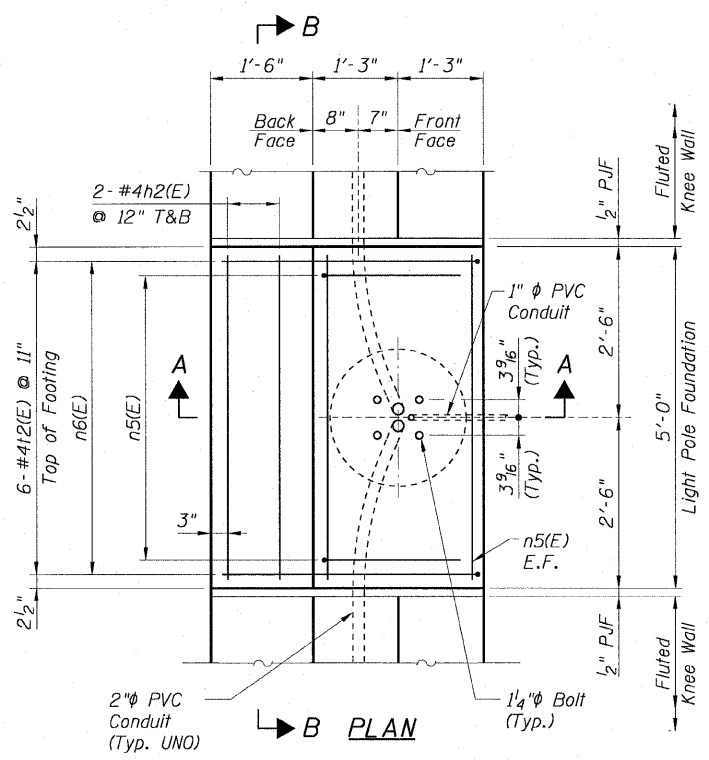
Bar	No.	Size	Length	Shape
h2(E)	14	#4	4'-8"	—
n5(E)	6	#5	9'-1"	⌈
n6(E)	6	#6	7'-5"	⌈
t2(E)	6	#4	3'-8"	—
v(E)	8	#6	11'-2"	—
Item		Unit	Quantity	
Light Pole Foundation		Each	3	
Integral With Barrier Wall				



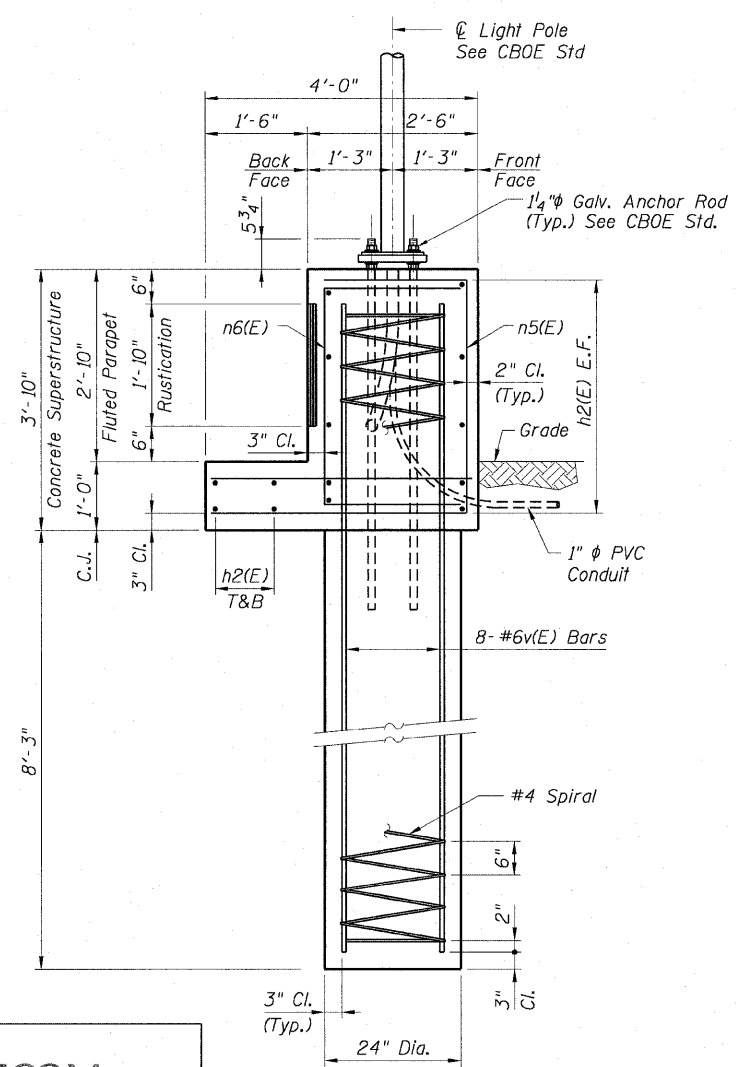
n5(E) and n6(E) Bars

NOTES:

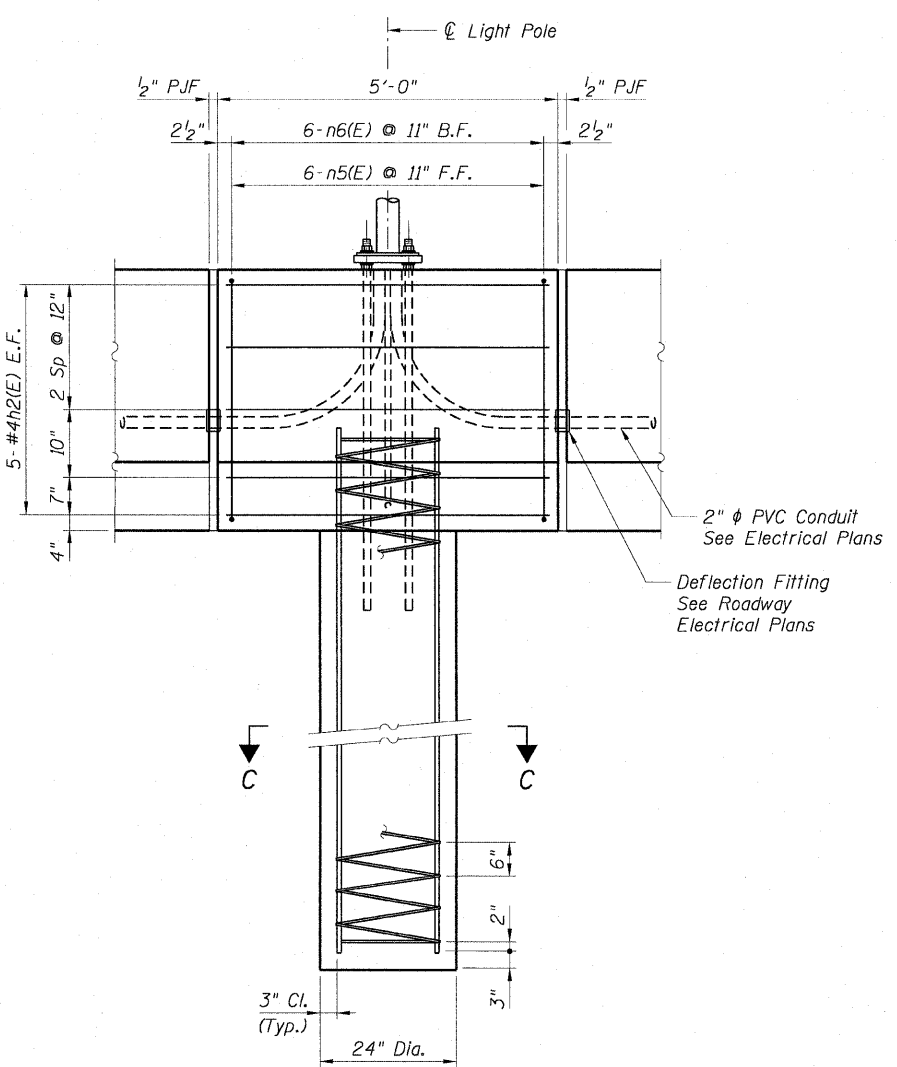
- For location of Light Pole Foundations, see Civil Drawings.
- Reinforcement bar shall conform to the requirements of AASHTO M-31 or M-322 Grade 60.
- Concrete: $f'c = 3500$ psi
- Protective Coat shall be applied according to Section 503.19 of the Standard Specifications to the top of stem and to the face of stem and top of footing on the Frontage Road side of the Knee Wall for Structural Detail 1.
- Chain Link Fence will not be paid for in this Contract, but shall be furnished and installed in Contract 60B88.
- BF = Back Face
EF = Each Face
FF = Front Face



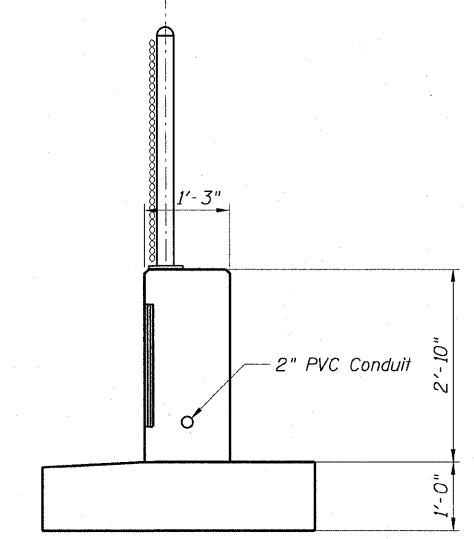
PLAN



SECTION A-A

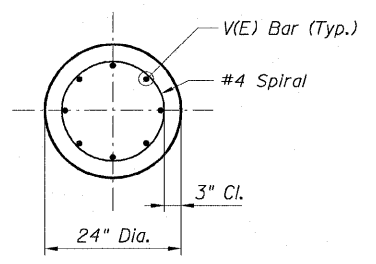


ELEVATION B-B



TYPICAL FLUTED KNEE WALL SECTION

Sta. 8220+51.67 to Sta. 8222+59.67
(For details of Fluted Knee Wall see Sheet S1 of 7)



SECTION C-C

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)

LIGHT POLE FOUNDATION DETAILS

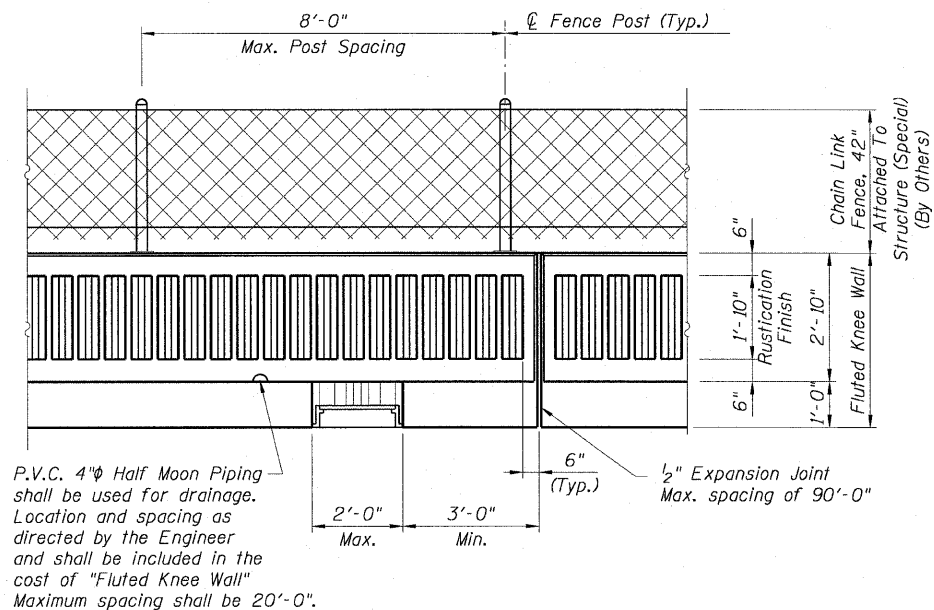
SCALE: None
DATE: JANUARY 14, 2009
DRAWN BY: CHD
CHECKED BY: RDP

Sheet S6 of 7

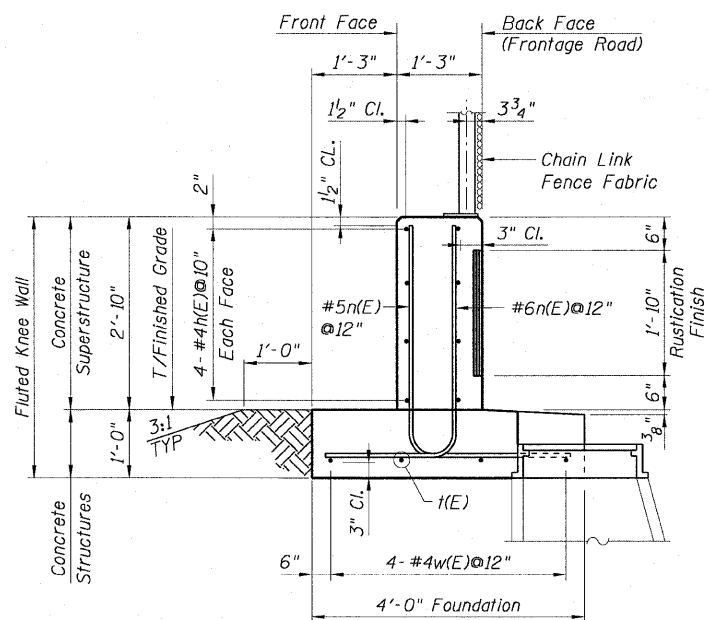
1/13/2009 11:20:24 AM \\usctg\p207\40468\040468-040468-struct\wall_knee_wall_foundation\contract_217\121\0002\asif

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

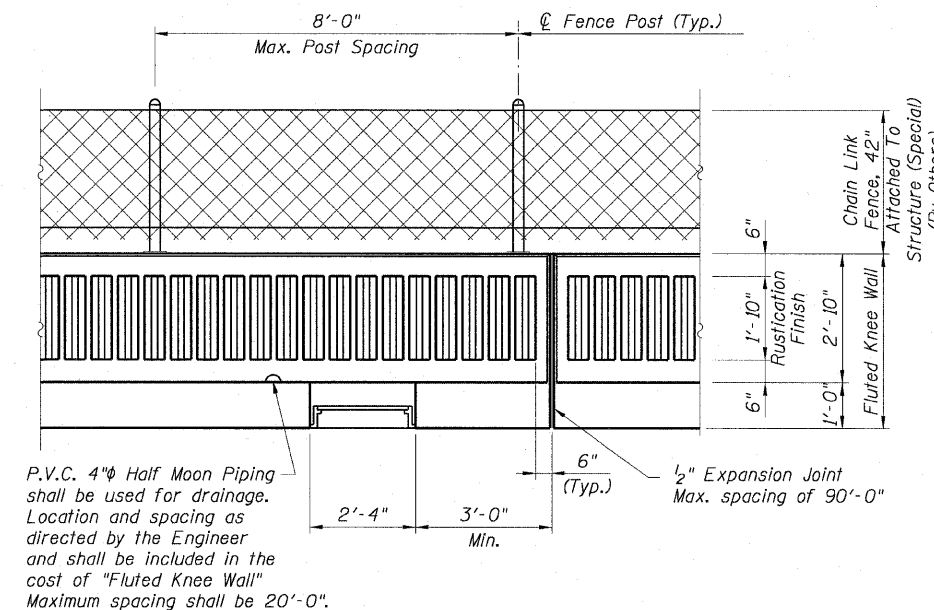
F.A.I. RTE. 90/94	SECTION •	COUNTY COOK	TOTAL SHEETS 45	SHEET NO. 41
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		
•(1818, 1919, 1919.15)		I-11		
				62983



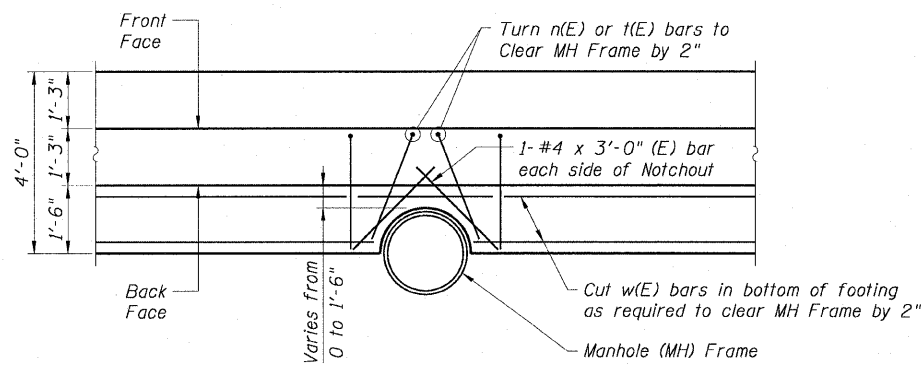
BACK FACE ELEVATION



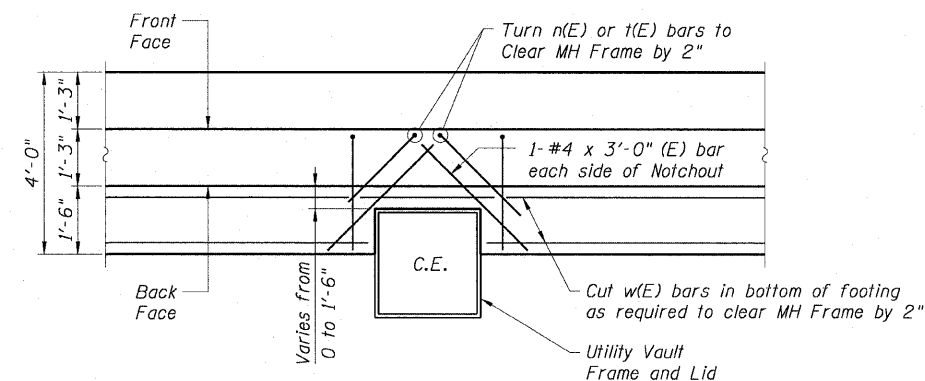
TYPICAL SECTION
AT NOTCH OUT



BACK FACE ELEVATION



PARTIAL PLAN
TYPICAL NOTCH OUT DETAILS AT MANHOLE FRAMES



PARTIAL PLAN
TYPICAL NOTCH OUT DETAILS AT UTILITY VAULTS

NOTE:

The cost of furnishing and installing the additional #4 bars in the bottom of the footing at notch outs are included with the cost of "FLUTED KNEE WALL".

AECOM

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 90/94 (DAN RYAN EXPRESSWAY)
71ST ST TO 63RD ST (NORTHBOUND KNEE WALLS)
**NOTCH OUT DETAILS FOR
FLUTED KNEE WALL FOOTING**

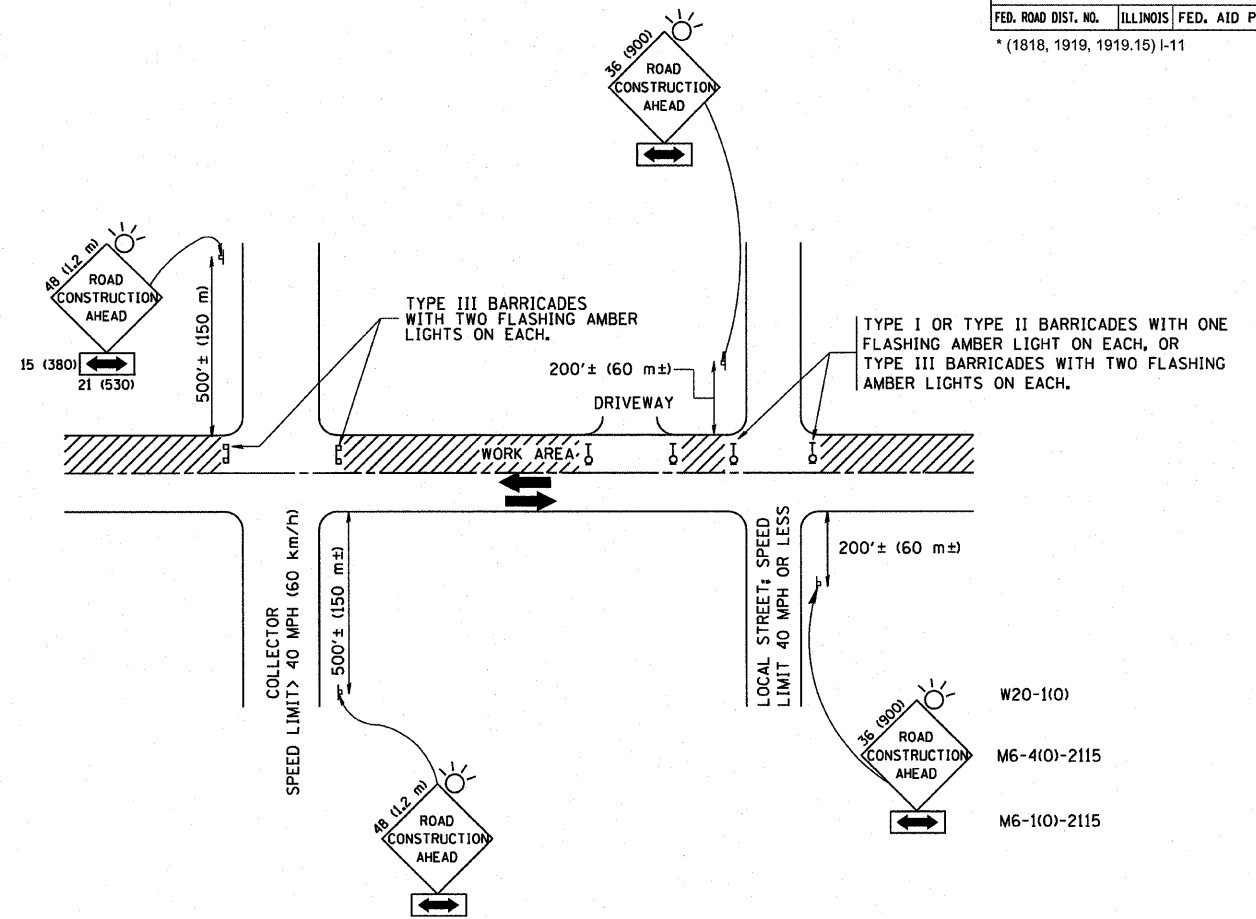
SCALE: None
DATE: JANUARY 14, 2009
DRAWN BY: CHD
CHECKED BY: MJP

Sheet S7 of 7

I:\scg\p207\p40468\p40468\struct\28-knee_wall\Fence\Sheet\contract\27\0712\0072.dwg

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	45	42
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

*(1818, 1919, 1919.15) I-11



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.

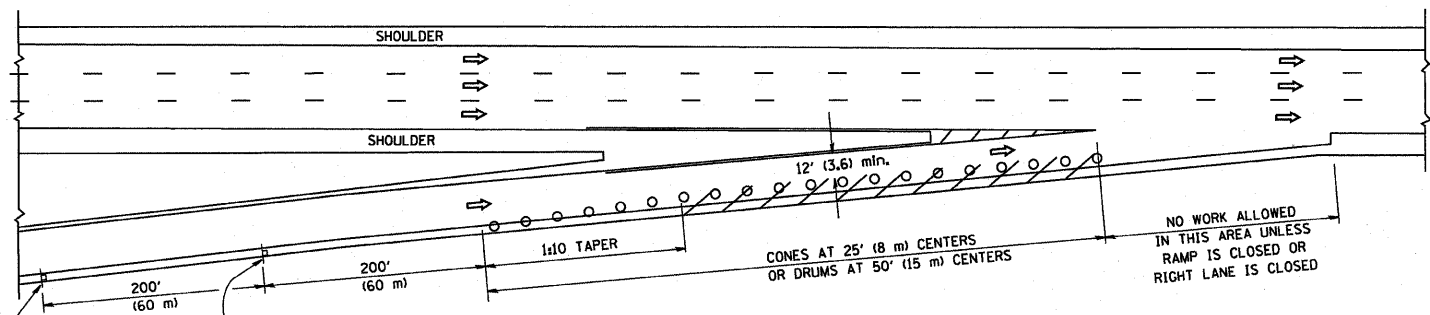
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

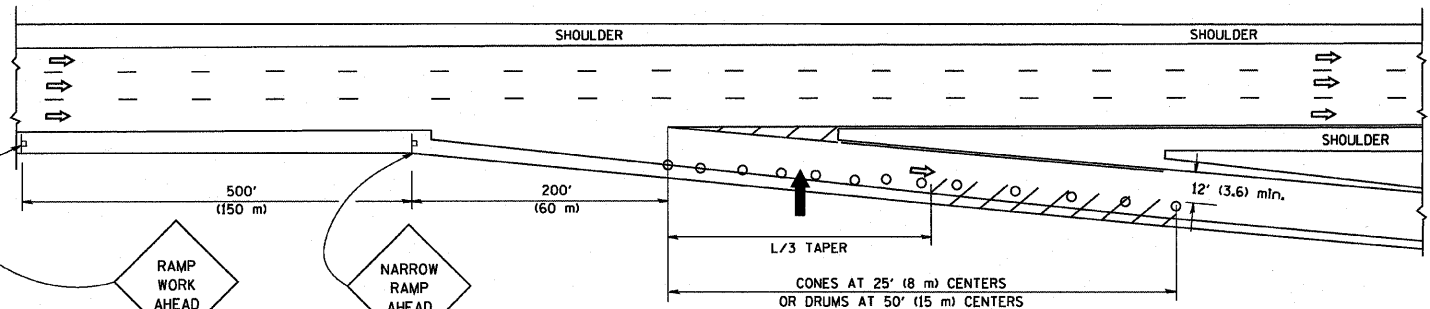
SCALE: NONE

DRAWN BY
 CHECKED BY

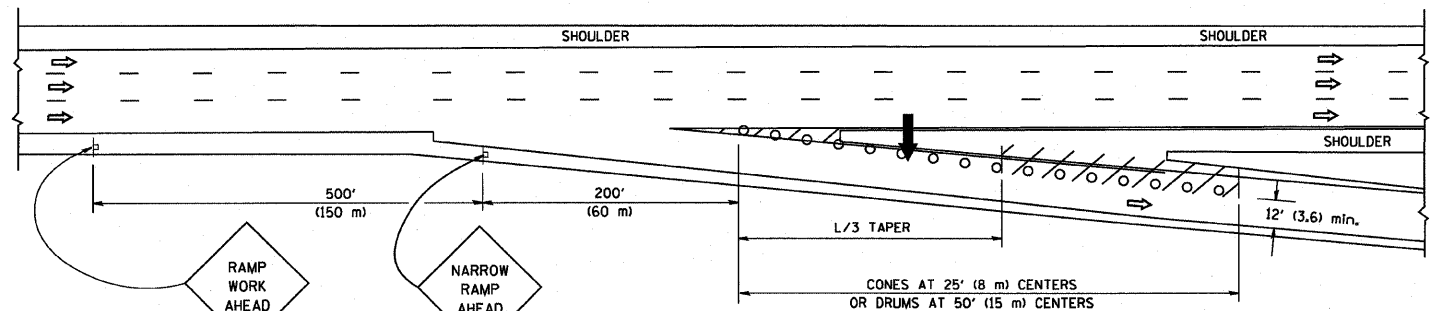
PARTIAL RAMP CLOSURE DETAILS



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

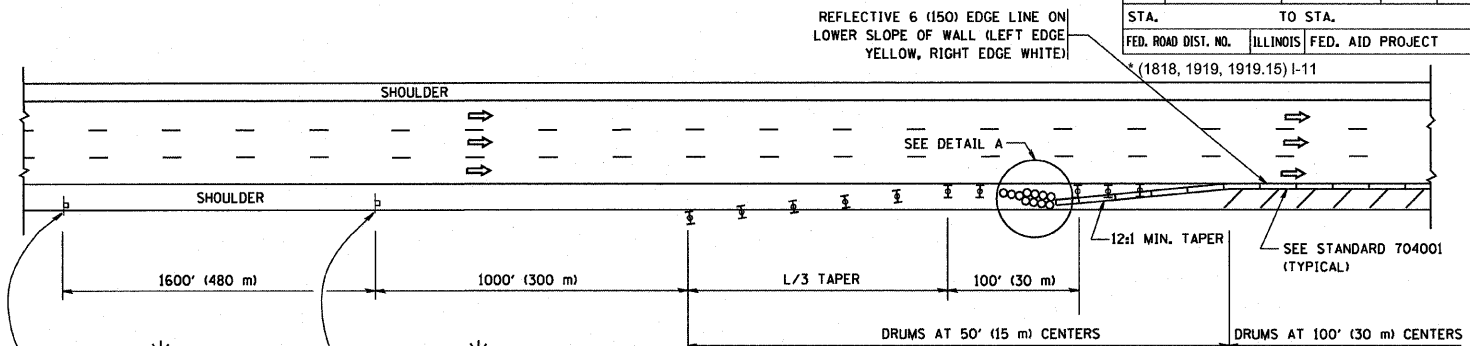
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

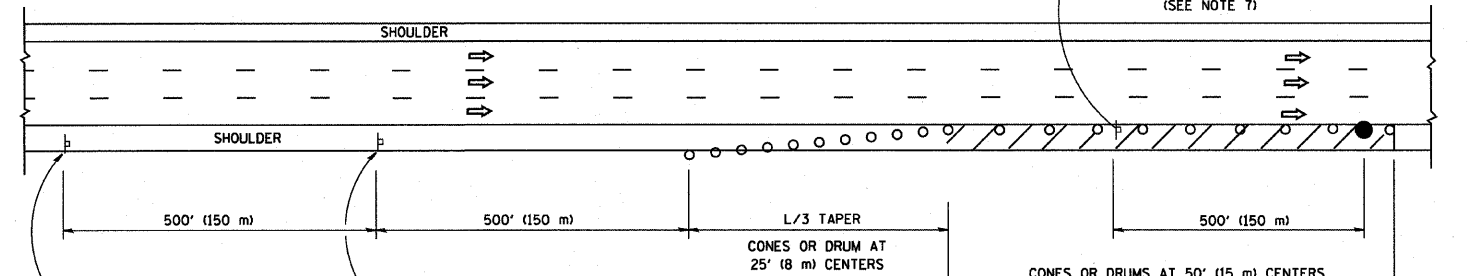
1. THE "L" DISTANCE EQUALS:

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

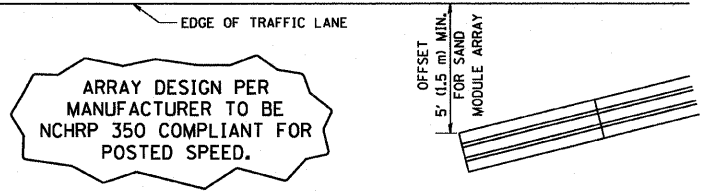


PERMANENT SHOULDER CLOSURE



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.



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

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

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

REVISIONS	
NAME	DATE
DWS	11/96
JAF	12/02
NCHRP 350	04/03
JAF	2/06
SPB	1/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL DETAILS
 FOR FREEWAY
 SHOULDER CLOSURES
 PARTIAL RAMP CLOSURES

SCALE: NONE

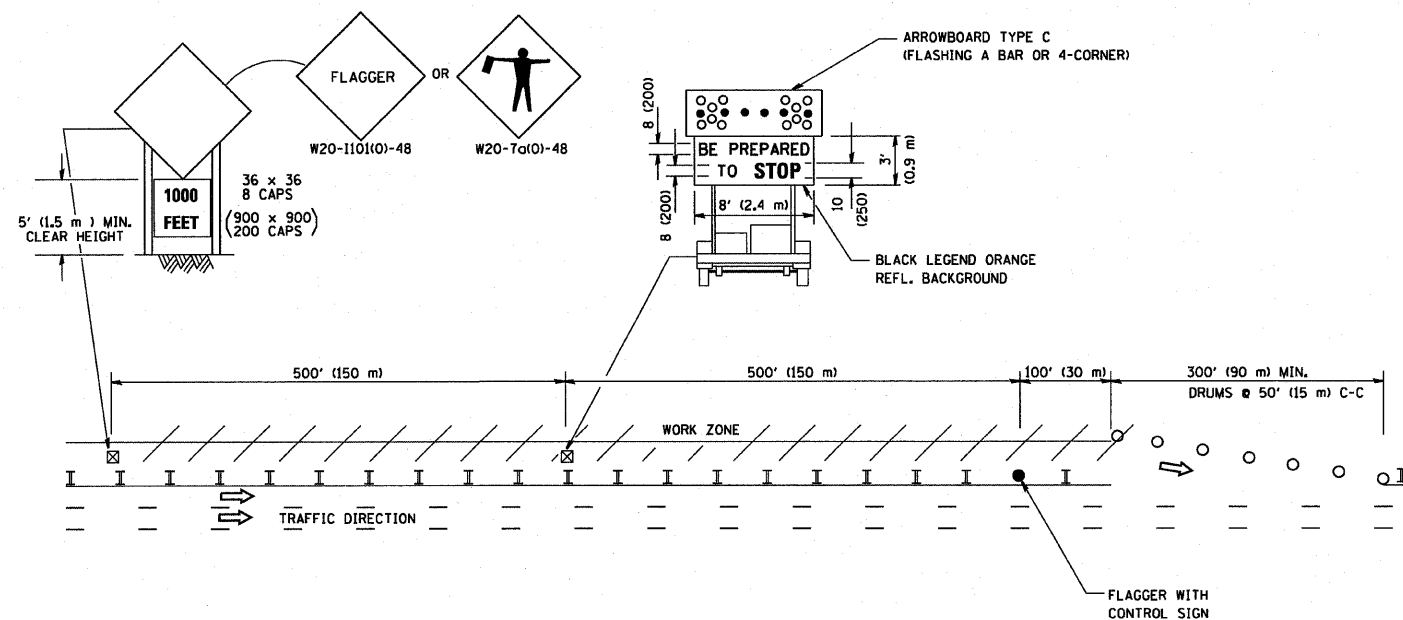
DESIGNED BY: DWS
 DRAWN BY
 CHECKED BY
 TC-17

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	45	44
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

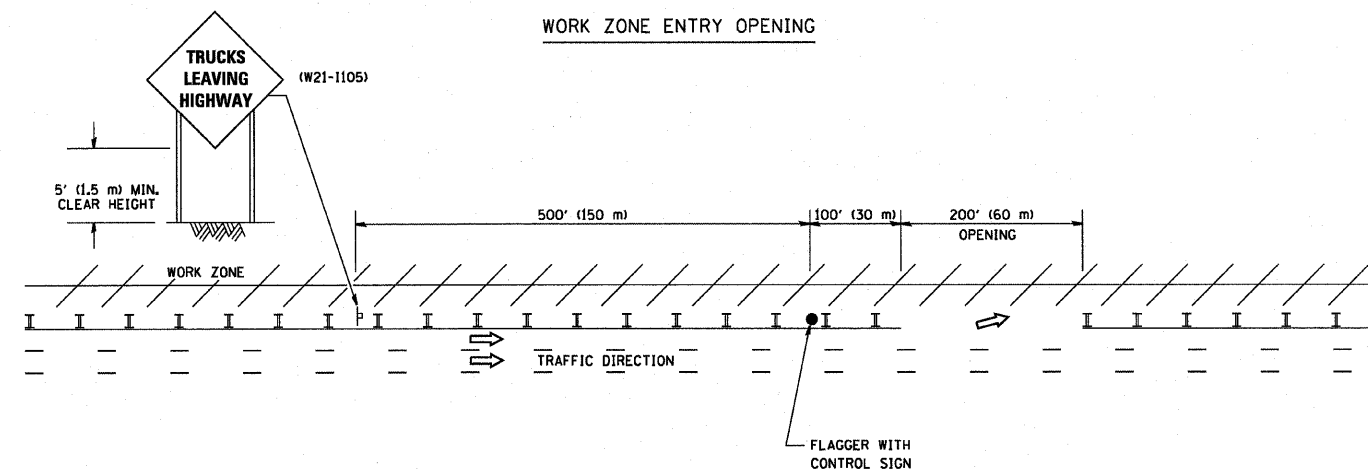
*(1818, 1919, 1919.15) I-11

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

WORK ZONE EXIT OPENING



WORK ZONE ENTRY OPENING



NOTES:

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

REVISIONS	
NAME	DATE
DWS	8/98
JAF	4/03
JAF	2/06
SPB	1/07

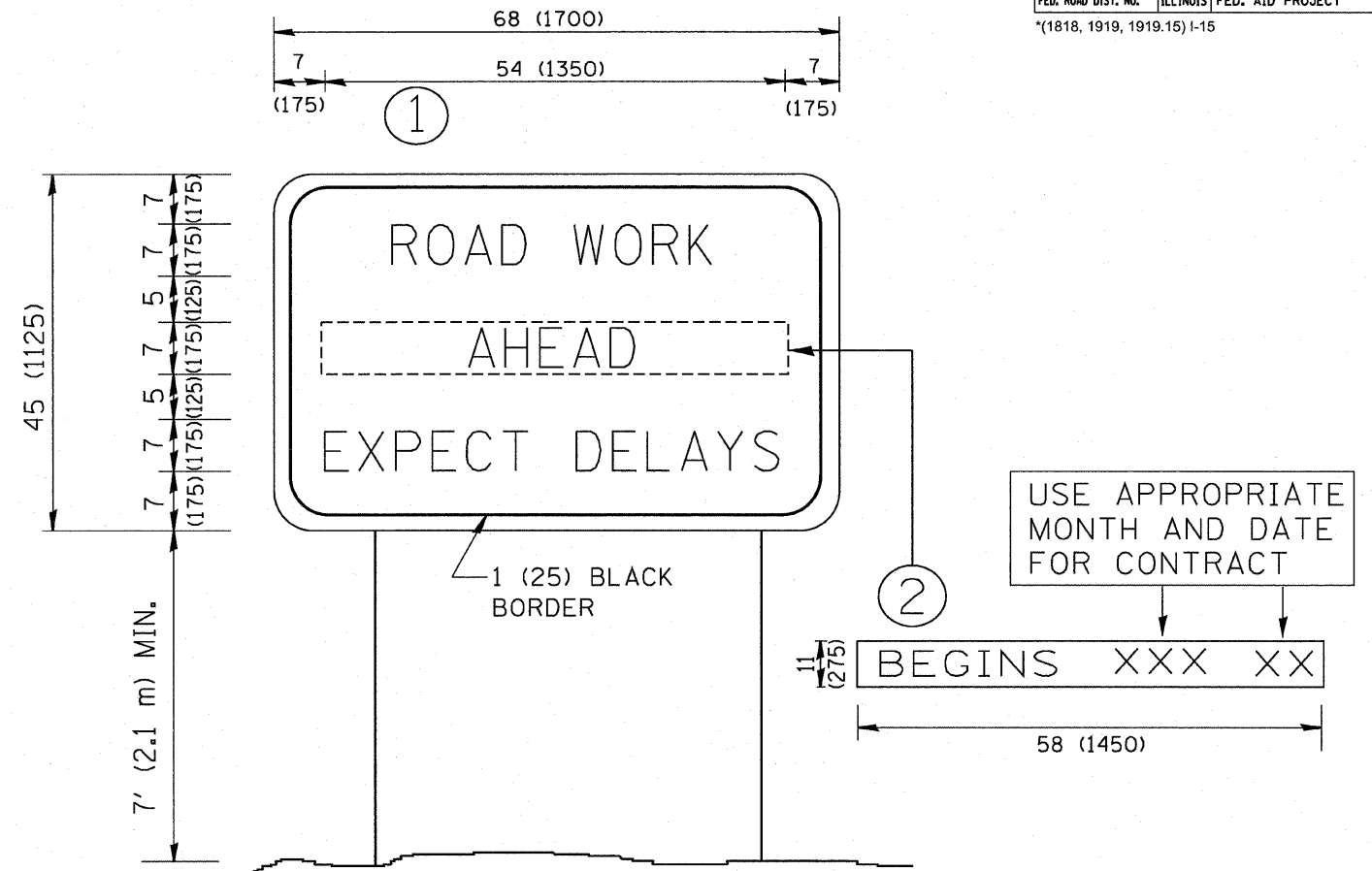
ILLINOIS DEPARTMENT OF TRANSPORTATION
SIGNING FOR FLAGGING OPERATIONS
AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-18

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
90/94	*	COOK	45	45
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

(1818, 1919, 1919.15) I-15



NOTES:

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

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

REVISIONS	
NAME	DATE
R. MIRS	9-15-97
R. MIRS	12-11-97
T. RAMMACHER	2-2-99
C. JUCIUS	1-31-07

ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

CHECKED BY

TC22