

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

F.A.I. ROUTE 90/94 (DAN RYAN EXPRESSWAY)
SECTION 2005-0331
NORTHBOUND FENCE AND GATES
(47TH ST TO 31ST ST)
COOK COUNTY
C-91-262-05

INDEX OF SHEETS

SHEET DESCRIPTION

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IDOT HIGHWAY STANDARDS

STANDARD DESCRIPTION

- | | |
|-----------|--|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 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 |



LOCATION OF SECTION INDICATED THUS: - [Symbol] -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED October 23, 2008

Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER
December 5, 2008

Eric E. Horn
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT
December 5, 2008

Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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OF THE STATE OF ILLINOIS**

BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com

PROJECT LOCATED IN CITY OF CHICAGO

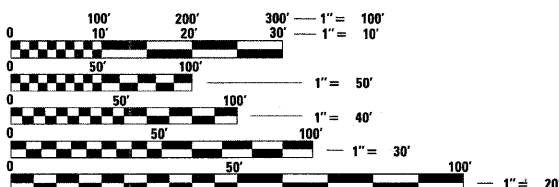
DESIGN DESIGNATION

LA SALLE ST: 8275 (20) URBAN COLLECTOR

FRONTAGE ROAD:	ADT (2020)	DESIGN SPEED	POSTED SPEED
LA SALLE ST	15,000	30	25

DESIGN NUMBER

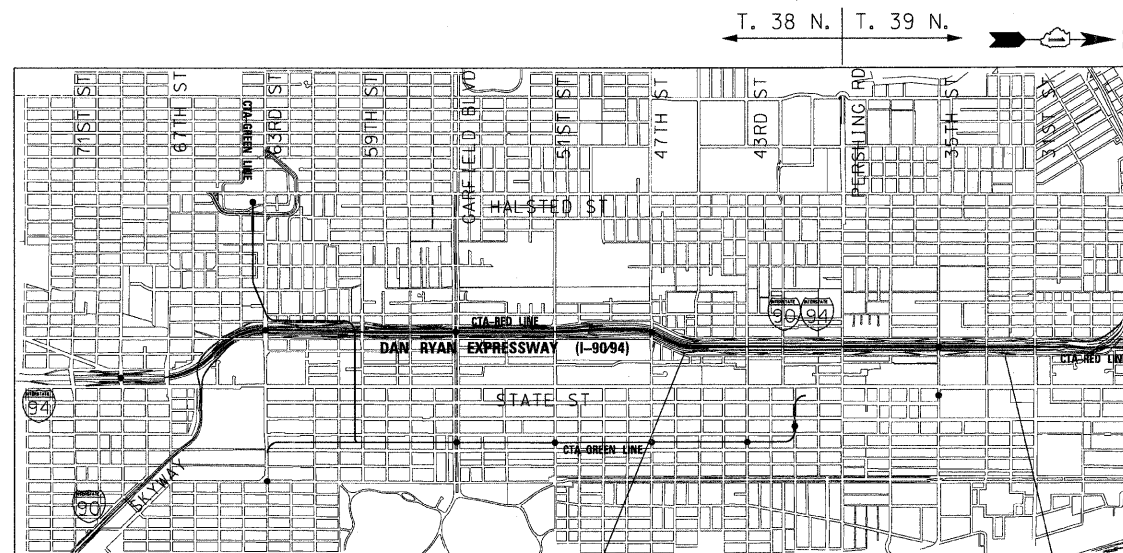
D-91-417-01



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

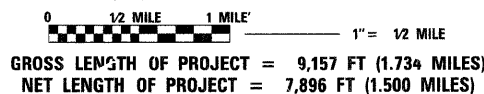
CONTRACT NO. 60A04



PROJECT BEGINS
NB LASALLE
STA 215+91

PROJECT ENDS
NB LASALLE
STA 442+82

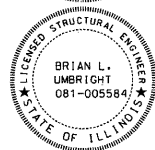
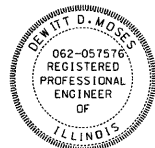
LOCATION MAP



SIGNATURE *[Signature]*
DATE Oct. 21, 2008
EXPIRES Nov. 30, 2009

SIGNATURE *[Signature]*
DATE Oct. 21, 2008
EXPIRES Nov. 30, 2009

SIGNATURE *[Signature]*
DATE Oct. 21, 2008
EXPIRES Nov. 30, 2010



F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	2
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

GENERAL NOTES:

- THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:
 CONTRACT 60A79 - GATEWAY LANDSCAPING AND IRRIGATION @ 35TH STREET
 CONTRACT 62301 - RECONSTRUCTION OF NORTHBOUND LOCAL LANES AND RAMPS BETWEEN GARFIELD BOULEVARD AND 31ST ST
 CONTRACT 62583 - LIGHTING AND SURVEILLANCE 31ST ST TO I-57 INTERCHANGE
 CONTRACT 62988 - NB KNEEWALL 47TH ST TO 45TH ST
 CONTRACT 62989 - NB KNEEWALL 45TH ST TO 43RD ST
 CONTRACT 62990 - NB KNEEWALL 43RD ST TO ROOT ST
 CONTRACT 62991 - NB KNEEWALL ROOT ST TO PERSHING RD
 CONTRACT 62992 - NB KNEEWALL PERSHING RD TO 35TH ST
 CONTRACT 62993 - NB KNEEWALL 35TH ST TO 33RD ST
 CONTRACT 62994 - NB KNEEWALL 33RD ST TO 31ST ST
- THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN ON THE DRAWINGS, REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL INCLUSIVE. THE CONTRACTOR MUST CONDUCT HIS OWN INVESTIGATIONS INTO THE LOCATION, SIZE, DEPTH, AND NATURE OF ANY AND ALL EXISTING UTILITIES WHICH MAY IMPACT THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES WHICH ARE TO REMAIN IN SERVICE MUST BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION MUST BE IMMEDIATELY REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE PROTECTION OF ANY AND ALL SURFACE AND UNDERGROUND UTILITIES, EVEN THOUGH THEY MAY NOT BE IDENTIFIED ON THE PLANS.
- 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 HOURS 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.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM IDOT.
- WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR MUST EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING COMMERCIAL AND RESIDENTIAL AREAS.
- IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED FENCE AND EXISTING FENCE TO REMAIN IN PLACE.
- THE CONTRACTOR MUST TAKE ALL NECESSARY SAFETY PRECAUTIONS TO PROTECT AND PROVIDE ACCESS TO ABUTTING PROPERTY, UTILITIES, PEDESTRIANS, AND VEHICULAR TRAFFIC.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER MUST BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR MUST PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS. THE ENGINEER OR AN 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 MUST REMAIN UNDISTURBED.
- ALL ELEVATIONS IN THIS PLAN SET ARE BASED ON THE CHICAGO CITY DATUM. THE CONVERSION EQUATION FROM CCD TO NAVD 88 IS: NAVD 88 ELEVATION = CCD + 579.19.

- BARRICADES: THE CONTRACTOR MUST PROVIDE AND INSTALL TWO WEIGHTED SANDBAGS ON EACH TYPE I OR TYPE II BARRICADE USED - ONE WEIGHTED SANDBAG ACROSS EACH BOTTOM RAIL. ALL TYPE III BARRICADES REQUIRE A MINIMUM OF FOUR SANDBAGS PER BARRICADE.
- LOCATIONS OF ACCESS CONTROL FENCING AS SHOWN ON THE PLANS MAY BE ADJUSTED AS DIRECTED BY THE ENGINEER TO BETTER FIT FIELD CONDITIONS.
- THE LOCATION OF VARIOUS ITEMS SUCH AS PAVEMENT, BARRIER WALLS, ELECTRICAL SYSTEMS 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.
- THE CONTRACTOR IS ALERTED THAT THERE ARE EXISTING CTA UTILITY FACILITIES WITHIN, ADJACENT TO, AND CROSSING UNDER THE EXPRESSWAY FROM THE FRONTAGE ROADS TO THE CTA OPERATING AREA. THE EXACT LOCATION OF THESE FACILITIES IS NOT KNOWN. THE CONTRACTOR MUST CONTACT THE CTA AT 312-681-3860 FOR LOCATIONS OF THESE FACILITIES BEFORE PROCEEDING WITH ANY WORK WITHIN OR ADJACENT TO THE CTA OPERATING AREA. FOR ADDITIONAL INFORMATION REGARDING BURIED CONDUITS, CONTACT MR. RICK STRAUBEL, MANAGER TECH SUPPORT, AT 312-922-0508.
- THE CONTRACTOR MUST MAINTAIN THE SURFACE DRAINAGE OF ALL ROADWAYS DURING CONSTRUCTION OF THIS PROJECT. WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR MUST PROVIDE AND MAINTAIN TEMPORARY OUTLETS AND CONNECTIONS FOR ALL PRIVATE OR PUBLIC DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR MUST PROVIDE FACILITIES TO TAKE IN ALL STORM WATER WHICH WILL BE RECEIVED BY THESE DRAINS AND SEWERS AND DISCHARGE THE SAME. THE CONTRACTOR MUST PROVIDE AND MAINTAIN A TEMPORARY OUTLET AND BE PREPARED AT ALL TIMES TO DISPOSE OF THE WATER RECEIVED FROM THESE TEMPORARY CONNECTIONS UNTIL INSTALLATION IS COMPLETE INCLUDING PAVEMENT. THIS WORK MUST NOT BE PAID FOR SEPERATELY BUT MUST BE CONSIDERED INCLUDED IN THE COST OF THIS CONTRACT.
- 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.
- ALL RELOCATION OF EXISTING SIGNS IN CONFLICT WITH PROPOSED CONSTRUCTION SHALL CONFORM TO ARTICLE 107.25 OF THE STANDARD SPECIFICATIONS.

GENERAL NOTES: CITY OF CHICAGO

- IN CASE OF DAMAGE TO CITY OF CHICAGO SEWERS, PRIVATE AND PUBLIC DRAINS, SEWER STRUCTURES AND/OR BENCH MONUMENTS, THE CONTRACTOR MUST IMMEDIATELY CONTACT THE DEPARTMENT OF WATER MANAGEMENT AT (312) 747-7892 OR (312) 747-7893.
- BENCH MONUMENT LOCATIONS WITHIN THE LIMITS OF THE IMPROVEMENT CAN BE OBTAINED FROM THE DEPARTMENT OF WATER MANAGEMENT AT 333 SOUTH STATE STREET, SUITE 410, CHICAGO, IL 60604. THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF REPLACING ANY BENCH MONUMENT DAMAGED OR DESTROYED DURING CONSTRUCTION.
- IN LOCATIONS WHERE THE MAIN SEWERS, DRAINAGE STRUCTURES, PUBLIC, AND PRIVATE DRAIN CONNECTIONS ARE DISTURBED OR DAMAGED DURING CONSTRUCTION BY THE CONTRACTOR, IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO RESTORE AND REPLACE THE DAMAGED FACILITIES AT HIS/HER OWN EXPENSE TO THE SATISFACTION OF THE DEPARTMENT OF WATER MANAGEMENT. THE SEWER FLOWS MUST BE MAINTAINED AT ALL TIMES.
- EXTREME CAUTION IS TO BE TAKEN TO ENSURE THAT NO FACILITY OWNED AND MAINTAINED BY THE DEPARTMENT OF WATER MANAGEMENT IS DAMAGED DURING CONSTRUCTION. IF ANY DAMAGE OCCURS TO ANY FACILITIES, THE CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE COST OF REPAIRING OR REPLACING THEM.
- CITY OF CHICAGO WATER VALVE VAULTS AND SEWER STRUCTURES MUST NOT BE CLOSED, COVERED OR OTHERWISE OBSTRUCTED DURING CONSTRUCTION WITHOUT WRITTEN PERMISSION FROM THE CITY OF CHICAGO DEPARTMENT OF WATER MANAGEMENT.
- THE CHICAGO TRANSIT AUTHORITY (CTA) HAS BUS OPERATIONS ALONG WENTWORTH AVENUE/WELLS STREET. THE CONTRACTOR MUST INFORM THE CTA REPRESENTATIVE MS. CHARLENE RIFFER (GENERAL MANAGER CONSTRUCTION) OF THE ON-GOING PROJECT SCHEDULE STARTING 28 DAYS BEFORE THE START OF CONSTRUCTION AT (312) 681-3851.

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
 312.228.0100
 www.bbandainc.com



REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

GENERAL NOTES

SCALE: NONE
 DATE: 10/23/08

DRAWN BY: JDC
 CHECKED BY: RS

10/24/2008 15:24:45 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	4
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

60A04

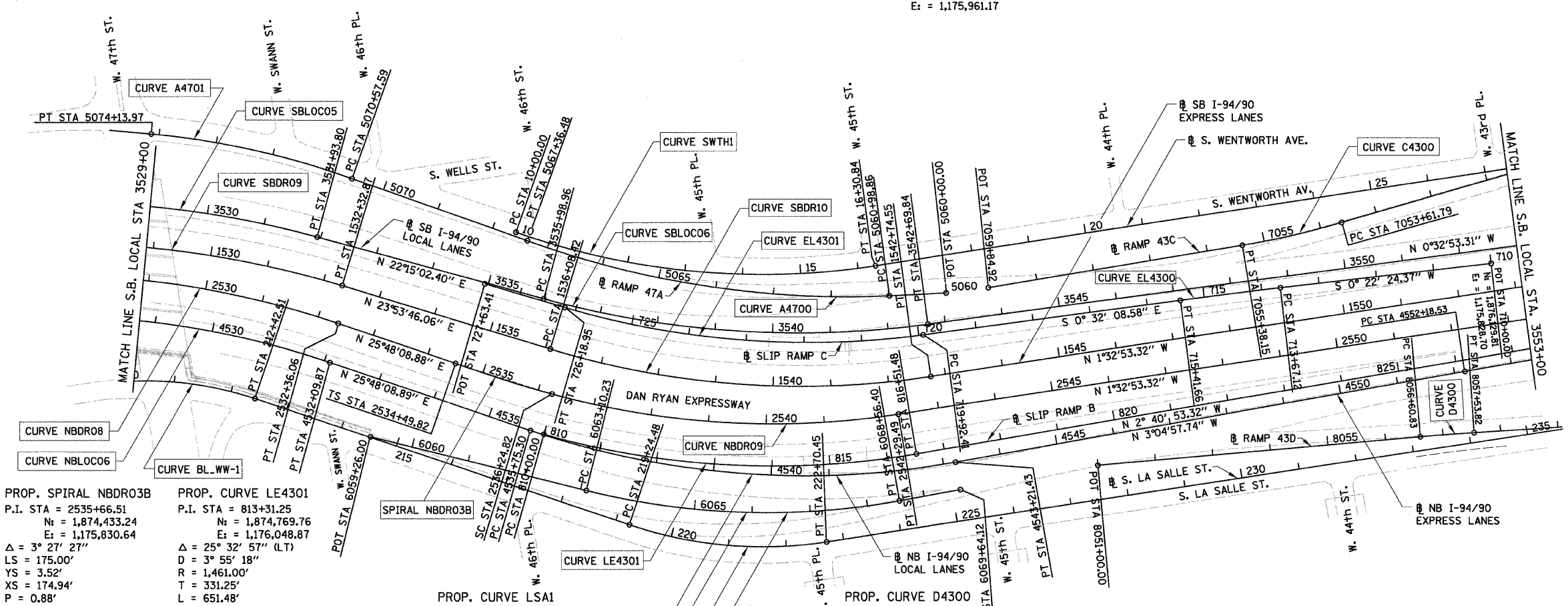
- PROP. CURVE SBDRI0**
P.I. STA = 1539+47.07
N_i = 1,874,803.43
E_i = 1,175,912.56
Δ = 25° 26' 39" (LT)
D = 3° 49' 11"
R = 1,500.00'
T = 338.65'
L = 666.13'
E = 37.75'
e = 5.9%
S.A. = END CONTINUOUSLY ROTATING PLANE AT STA 1537+03.93
T.R. = 68.20'
S.E. RUN = 315.00'
S.R. = STA 1541+69.55 TO STA 1545+52.75
P.C. STA = 1536+08.42
N_i = 1,874,493.81
E_i = 1,175,775.38
P.T. STA = 1542+74.55
N_f = 1,875,141.96
E_f = 1,175,903.41
- PROP. CURVE EL4300**
P.C. STA = 714+54.39
N_i = 1,875,675.42
E_i = 1,175,825.74
Δ = 0° 54' 33" (LT)
D = 0° 31' 15"
R = 11,000.00'
T = 87.27'
L = 174.54'
E = 0.35'
e = 5.9%
P.C. STA = 713+67.12
N_i = 1,875,762.70
E_i = 1,175,826.31
P.T. STA = 715+41.66
N_f = 1,874,459.70
E_f = 1,175,826.55
- PROP. CURVE SWTH1**
P.I. STA = 13+21.89
N_i = 1,874,747.97
E_i = 1,175,711.50
Δ = 28° 04' 24" (LT)
D = 4° 27' 01"
R = 1,287.50'
T = 321.89'
L = 630.84'
E = 39.63'
e = MATCH EXISTING
T.R. = MATCH EXISTING
S.E. RUN = MATCH EXISTING
P.C. STA = 10+00.00
N_i = 1,874,459.70
E_i = 1,175,568.28
P.T. STA = 16+30.84
N_f = 1,875,069.72
E_f = 1,175,702.20
- PROP. CURVE EL4301**
P.I. STA = 723+10.32
N_i = 1,874,819.53
E_i = 1,175,833.74
Δ = 23° 55' 56" (RT)
D = 3° 49' 11"
R = 1,500.00'
T = 317.91'
L = 626.54'
E = 33.32'
e = 5.9%
S.A. = STA 719+00.06 TO STA 720+38.59
S.R. = STA 725+72.77 TO 727+63.41 (1.83%)
P.C. STA = 719+92.41
N_i = 1,875,137.42
E_i = 1,175,830.77
P.T. STA = 726+18.95
N_f = 1,874,527.76
E_f = 1,175,707.50
- PROP. CURVE A4701**
P.I. STA = 5072+36.79
N_i = 1,874,030.16
E_i = 1,175,360.65
Δ = 14° 54' 56" (LT)
D = 4° 11' 07"
R = 1,369.00'
T = 179.20'
L = 356.38'
E = 11.68'
e = MATCH EXISTING
T.R. = MATCH EXISTING
S.E. RUN = MATCH EXISTING
P.C. STA = 5070+57.59
N_i = 1,874,189.71
E_i = 1,175,442.25
P.T. STA = 5074+13.97
N_f = 1,873,854.99
E_f = 1,175,322.86
- PROP. CURVE A4700**
P.I. STA = 5064+21.82
N_i = 1,874,765.22
E_i = 1,175,731.41
Δ = 22° 28' 55" (RT)
D = 3° 31' 33"
R = 1,625.00'
T = 322.97'
L = 637.62'
E = 31.78'
e = 4.4%
S.A. = STA 5060+00 (3.58%) TO 5061+21.86
S.R. = STA 5067+13.48 TO 5067+83.48
P.C. STA = 5060+98.86
N_i = 1,875,087.21
E_i = 1,175,756.48
P.T. STA = 5067+36.48
N_f = 1,874,477.28
E_f = 1,175,585.12
- PROP. CURVE C4300**
P.I. STA = 7054+50.07
N_i = 1,875,794.51
E_i = 1,175,741.50
Δ = 6° 44' 11" (RT)
D = 3° 49' 11"
R = 1,500.00'
T = 88.28'
L = 176.36'
E = 2.60'
e = 4.6%
S.A. = STA 7053+09.79 TO 7053+87.79
S.R. = STA 7055+12.15 TO 7055+90.15
P.C. STA = 7053+61.79
N_i = 1,875,881.65
E_i = 1,175,727.39
P.T. STA = 7055+38.15
N_f = 1,875,706.31
E_f = 1,175,745.28
- PROP. CURVE NBDRO9**
P.I. STA = 2539+31.62
N_i = 1,874,770.97
E_i = 1,175,969.46
Δ = 23° 53' 35" (LT)
D = 3° 57' 05"
R = 1,450.00'
T = 306.79'
L = 604.67'
E = 32.10'
e = 6.0%
S.A. = END CONTINUOUSLY ROTATING PLANE AT STA 2536+24.82
T.R. = 33.10'
S.E. RUN = 320.00'
S.R. = STA 2541+22.82 TO STA 2544+75.92
P.C. STA = 2536+24.82
N_i = 1,874,487.21
E_i = 1,175,852.82
P.T. STA = 2542+29.49
N_f = 1,875,077.65
E_f = 1,175,961.17

- PROP. CURVE SBLOC06**
P.I. STA = 3539+38.89
N_i = 1,874,807.75
E_i = 1,175,816.77
Δ = 22° 47' 56" (LT)
D = 3° 23' 54"
R = 1,686.00'
T = 339.94'
L = 670.88'
E = 33.93'
e = 5.7%
S.A. = END CONTINUOUSLY ROTATING PLANE AT STA 3537+00.25
T.R. = 68.79'
S.E. RUN = 380.00'
S.R. = STA 3541+43.17 TO STA 3545+91.96
P.C. STA = 3535+98.96
N_i = 1,874,493.12
E_i = 1,175,688.05
P.T. STA = 3542+69.84
N_f = 1,875,147.67
E_f = 1,175,813.52
- PROP. CURVE NBLOC07**
P.I. STA = 4539+56.47
N_i = 1,874,785.65
E_i = 1,176,076.72
Δ = 28° 53' 07" (LT)
D = 3° 52' 17"
R = 1,480.00'
T = 381.17'
L = 746.13'
E = 48.30'
e = 5.9%
S.A. = END CONTINUOUSLY ROTATING PLANE AT STA 4536+66.66
T.R. = 68.49'
S.E. RUN = 393.00'
S.R. = STA 4541+90.43 TO STA 4546+51.92
P.C. STA = 4535+75.30
N_i = 1,874,442.48
E_i = 1,175,910.80
P.T. STA = 4543+21.43
N_f = 1,875,166.27
E_f = 1,176,056.22

- PROP. CURVE B4700**
P.I. STA = 6065+87.40
N_i = 1,874,784.51
E_i = 1,176,124.85
Δ = 24° 04' 19" (LT)
D = 4° 24' 27"
R = 1,300.00'
T = 277.18'
L = 546.17'
E = 29.22'
e = 4.9%
S.A. = STA 6061+55.16 TO 6063+58.24
S.R. = STA 6068+08.40 TO 4546+51.92
P.C. STA = 6063+10.23
N_i = 1,874,525.73
E_i = 1,176,025.56
P.T. STA = 6068+56.40
N_f = 1,875,061.29
E_f = 1,176,109.94
- PROP. CURVE BL_WW-1**
P.I. STA = 211+05.58
N_i = 1,873,849.12
E_i = 1,175,736.29
Δ = 27° 13' 24" (RT)
D = 9° 44' 58"
R = 587.69'
T = 142.30'
L = 279.23'
E = 16.98'
e = MATCH EXISTING
T.R. = MATCH EXISTING
S.E. RUN = MATCH EXISTING
P.C. STA = 209+63.28
N_i = 1,873,706.87
E_i = 1,175,740.12
P.T. STA = 212+42.51
N_f = 1,873,977.37
E_f = 1,175,797.95

- PROP. SPIRAL NBDRO3B**
P.I. STA = 2535+66.51
N_i = 1,874,433.24
E_i = 1,175,830.64
Δ = 3° 27' 27"
LS = 175.00'
YS = 3.52'
XS = 174.94'
P = 0.88'
K = 87.49'
LT = 116.69'
ST = 58.35'
LC = 174.97'
T.S. STA = 2534+49.82
N_i = 1,874,328.19
E_i = 1,175,779.85
S.C. STA = 2536+24.82
N_f = 1,874,487.21
E_f = 1,175,852.82
- PROP. CURVE LE4301**
P.I. STA = 813+31.25
N_i = 1,874,769.76
E_i = 1,176,048.87
Δ = 25° 32' 57" (LT)
D = 3° 55' 18"
R = 1,461.00'
T = 331.25'
L = 651.48'
E = 37.08'
e = 5.9%
S.A. = STA 810+00.00 (4.45%) TO 810+67.35
T.R. = 71.04'
S.E. RUN = 208.68'
S.R. = STA 815+81.92 TO STA 818+61.64
P.C. STA = 810+00.00
N_i = 1,874,464.55
E_i = 1,175,920.15
P.T. STA = 816+51.48
N_f = 1,875,100.65
E_f = 1,176,033.38

- PROP. CURVE LSA1**
P.I. STA = 221+00.82
N_i = 1,874,750.89
E_i = 1,176,169.92
Δ = 27° 20' 30" (LT)
D = 7° 54' 10"
R = 725.00'
T = 176.34'
L = 345.97'
E = 21.14'
e = MATCH EXISTING
T.R. = MATCH EXISTING
S.E. RUN = MATCH EXISTING
P.C. STA = 219+24.48
N_i = 1,874,591.98
E_i = 1,176,093.48
P.T. STA = 222+70.45
N_f = 1,874,927.16
E_f = 1,176,164.84
- PROP. CURVE D4300**
P.I. STA = 8057+07.33
N_i = 1,876,018.11
E_i = 1,176,112.42
Δ = 1° 19' 55" (RT)
D = 1° 25' 57"
R = 4,000.00'
T = 46.49'
L = 92.99'
E = 0.27'
e = 2.3%
S.A. = STA 8056+54.83 TO 8056+63.83
S.R. = STA 8057+50.82 TO 8057+59.82
P.C. STA = 8056+60.83
N_i = 1,875,971.65
E_i = 1,176,110.86
P.T. STA = 8057+53.82
N_f = 1,876,064.53
E_f = 1,176,115.06



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- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.
 - FOR RAMP P.O.T. INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: RS

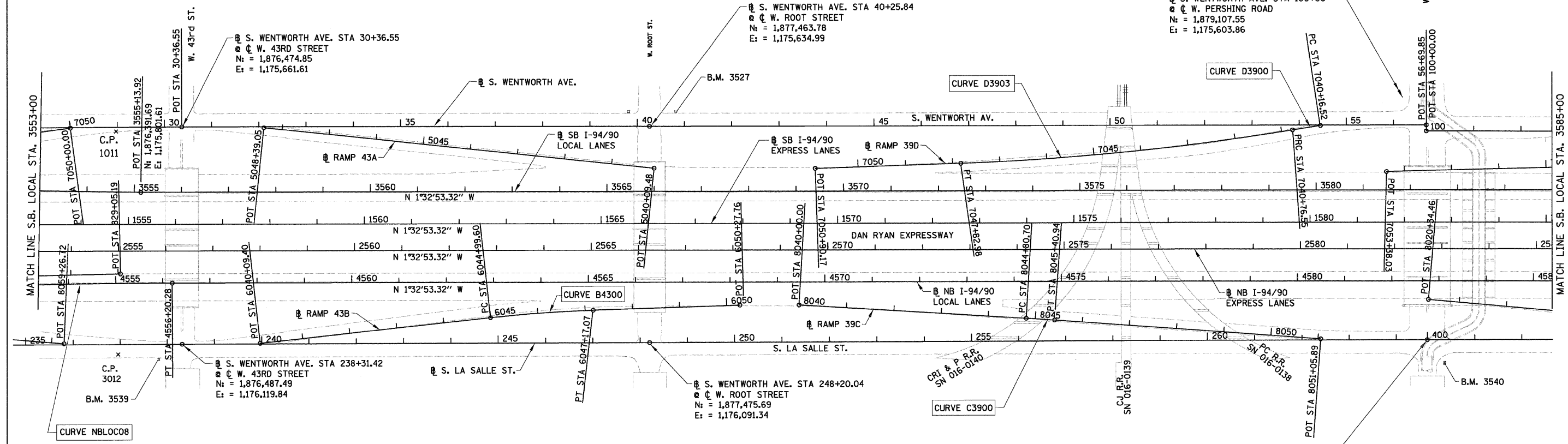
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	5
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

PROP. CURVE D3903
P.I. STA = 7044+30.25
Nt = 1,878,475.96
Et = 1,175,675.24
Δ = 7° 22' 41" (RT)
D = 1° 02' 40"
R = 5,486.00'
T = 353.70'
L = 706.43'
E = 11.39'
P.C. STA = 7040+76.55
Nt = 1,878,823.36
Et = 1,175,608.75
P.T. STA = 7047+82.98
Nt = 1,878,122.90
Et = 1,175,696.57

PROP. CURVE D3900
P.I. STA = 7040+46.54
Nt = 1,878,852.84
Et = 1,175,603.11
Δ = 0° 47' 26" (LT)
D = 1° 19' 02"
R = 4,350.00'
T = 30.02'
L = 60.03'
E = 0.10'
P.C. STA = 7040+16.52
Nt = 1,878,882.40
Et = 1,175,597.87
P.T. STA = 7040+76.55
Nt = 1,878,823.36
Et = 1,175,608.75



PROP. CURVE NBLOC08
P.I. STA = 4554+19.42
Nt = 1,876,262.66
Et = 1,175,997.17
Δ = 1° 32' 04" (RT)
D = 0° 22' 55"
R = 15,000.00'
T = 200.89'
L = 401.75'
E = 1.35'
P.C. STA = 4552+18.53
Nt = 1,876,062.07
Et = 1,176,007.97
P.T. STA = 4556+20.28
Nt = 1,876,463.47
Et = 1,175,991.74

PROP. CURVE B4300
P.I. STA = 6046+08.39
Nt = 1,877,246.14
Et = 1,176,032.59
Δ = 4° 21' 02" (RT)
D = 2° 00' 02"
R = 2,864.00'
T = 108.79'
L = 217.47'
E = 2.07'
e = 3.0%
S.A. = STA 6044+79.60
TO 6045+09.60
S.R. = STA 6047+07.07
TO 6047+37.07
P.C. STA = 6044+99.60
Nt = 1,877,138.36
Et = 1,176,047.37
P.T. STA = 6047+17.07
Nt = 1,877,354.72
Et = 1,176,026.03

PROP. CURVE C3900
P.I. STA = 8045+10.82
Nt = 1,878,300.35
Et = 1,176,021.08
Δ = 0° 41' 25" (RT)
D = 1° 08' 45"
R = 5,000.00'
T = 30.12'
L = 60.24'
E = 0.09'
P.C. STA = 8044+80.70
Nt = 1,878,270.25
Et = 1,176,020.07
P.T. STA = 8045+40.94
Nt = 1,878,330.44
Et = 1,176,022.46

⊕ S. LASALLE ST. STA 400+00.00 AH
STA 264+66.03 BK
⊕ W. PERSHING ROAD
Nt = 1,879,121.00
Et = 1,176,043.89

- NOTES:**
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.
 3. FOR RAMP P.O.T. INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: 10/23/08

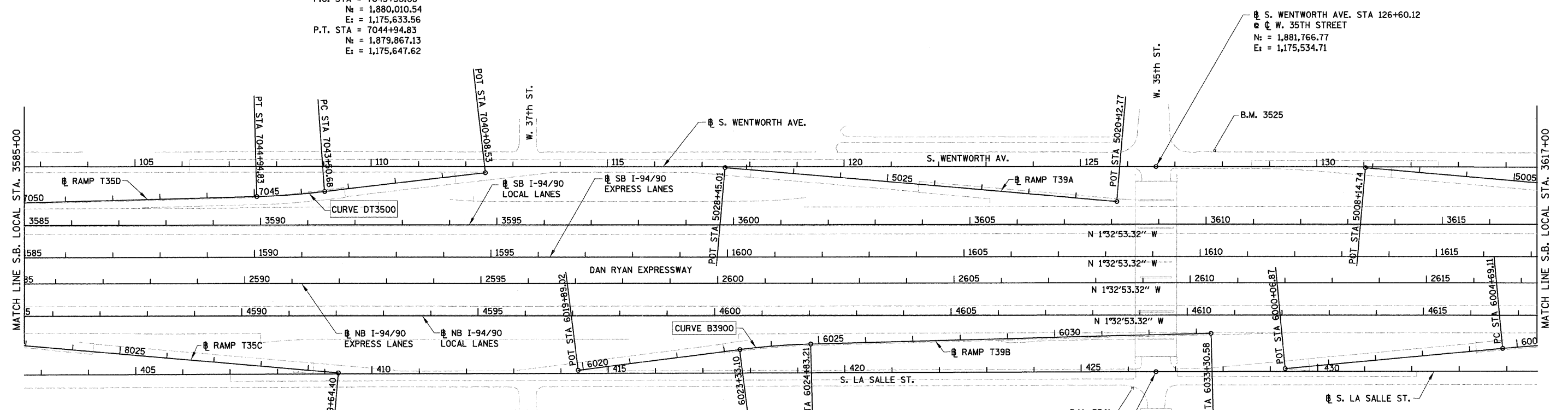
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CHECKED BY: RS

ALT-02
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	6
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

PROP. CURVE DT3500
 P.I. STA = 7044+22.81
 Nt = 1,879,939.16
 E = 1,175,643.87
 $\Delta = 5^\circ 14' 38''$ (RT)
 $D = 3^\circ 38' 16''$
 $R = 1,575.00'$
 $T = 72.13'$
 $L = 144.15'$
 $E = 1.65'$
 $e = 3.6\%$
 S.A. = STA 7043+14.68
 TO 7043+59.68
 S.R. = STA 7044+85.83
 TO 7045+30.83
 P.C. STA = 7043+50.68
 Nt = 1,880,010.54
 E = 1,175,633.56
 P.T. STA = 7044+94.83
 Nt = 1,879,867.13
 E = 1,175,647.62



PROP. CURVE B3900
 P.I. STA = 6024+08.22
 Nt = 1,880,970.99
 E = 1,175,932.00
 $\Delta = 5^\circ 47' 44''$ (RT)
 $D = 3^\circ 51' 39''$
 $R = 1,484.00'$
 $T = 75.12'$
 $L = 150.11'$
 $E = 1.90'$
 $e = 3.7\%$
 S.A. = STA 6022+97.10
 TO 6023+42.10
 S.R. = STA 6024+74.21
 TO 6025+19.21
 P.C. STA = 6023+33.10
 Nt = 1,880,896.76
 E = 1,175,943.46
 P.T. STA = 6024+83.21
 Nt = 1,881,046.01
 E = 1,175,928.09

S. LASALLE ST. STA 426+58.57
 @ W. 35TH STREET
 Nt = 1,881,778.46
 E = 1,175,967.25

- NOTES:
1. AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 2. FOR BENCH MARK INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.
 3. FOR RAMP P.O.T. INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.

ALT-03

REVISIONS	
NAME	DATE

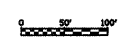
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

ALIGNMENT PLAN

SCALE: 1"=100'
 DATE: 10/23/08

DRAWN BY: JDC
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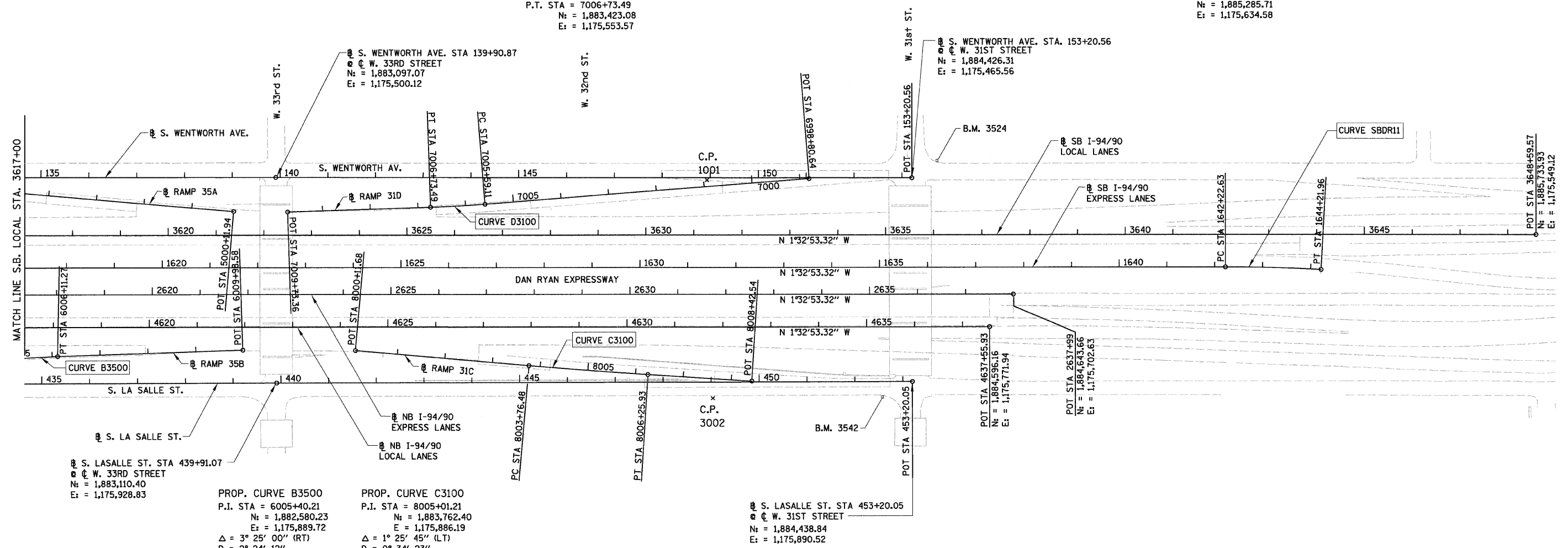
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	7
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

60A04

PROP. CURVE D3100
P.I. STA = 7006+16.31
Nt = 1,883,480.18
E = 1,175,550.12
Δ = 2° 35' 11" (RT)
D = 2° 15' 40"
R = 2,534.00'
T = 57.20'
L = 114.38'
E = 0.65'
e = 2.6%
S.A. = STA 7005+43.11
TO 7005+63.11
S.R. = STA 7006+69.49
TO 7006+89.49
P.C. STA = 7005+59.11
Nt = 1,883,537.06
E = 1,175,544.09
P.T. STA = 7006+73.49
Nt = 1,883,423.08
E = 1,175,553.57

PROP. CURVE SBDR11
P.I. STA = 1643+22.32
Nt = 1,885,186.06
E = 1,175,631.95
Δ = 3° 03' 18" (RT)
D = 1° 31' 57"
R = 3,738.57'
T = 99.69'
L = 199.33'
E = 1.33'
e = ±2.5% (MATCH EXISTING)
S.A. = STA 1641+95.99
TO 1642+35.95
S.R. = N/A
P.C. STA = 1642+22.63
Nt = 1,885,086.40
E = 1,175,634.65
P.T. STA = 1644+21.96
Nt = 1,885,285.71
E = 1,175,634.58



S. LASALLE ST. STA 439+91.07
W. 33RD STREET
Nt = 1,883,110.40
E = 1,175,928.83

PROP. CURVE B3500
P.I. STA = 6005+40.21
Nt = 1,882,580.23
E = 1,175,889.72
Δ = 3° 25' 00" (RT)
D = 2° 24' 12"
R = 2,384.00'
T = 71.10'
L = 142.16'
E = 1.06'
e = 2.7%
S.A. = STA 6004+53.11
TO 6004+73.11
S.R. = STA 6006+07.27
TO 6006+27.27
P.C. STA = 6004+69.11
Nt = 1,882,509.63
E = 1,175,898.23
P.T. STA = 6006+11.27
Nt = 1,882,651.20
E = 1,175,895.43

PROP. CURVE C3100
P.I. STA = 8005+01.21
Nt = 1,883,762.40
E = 1,175,886.19
Δ = 1° 25' 45" (LT)
D = 0° 34' 23"
R = 10,000.00'
T = 124.73'
L = 249.45'
E = 0.78'
P.C. STA = 8003+76.48
Nt = 1,883,637.89
E = 1,175,878.68
P.T. STA = 8006+25.93
Nt = 1,883,887.05
E = 1,175,890.60

S. LASALLE ST. STA 453+20.05
W. 31ST STREET
Nt = 1,884,438.84
E = 1,175,890.52

- NOTES:
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.
 - FOR RAMP P.O.T. INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.

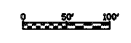
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: 10/23/08
DRAWN BY: JDC
CHECKED BY: RS

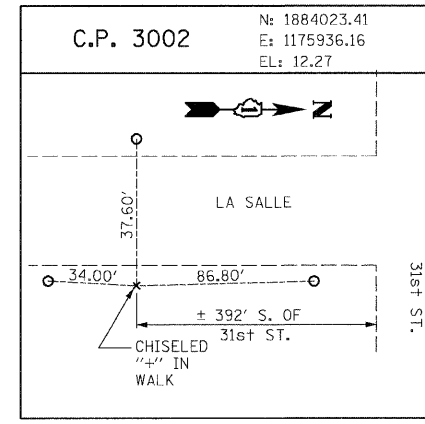
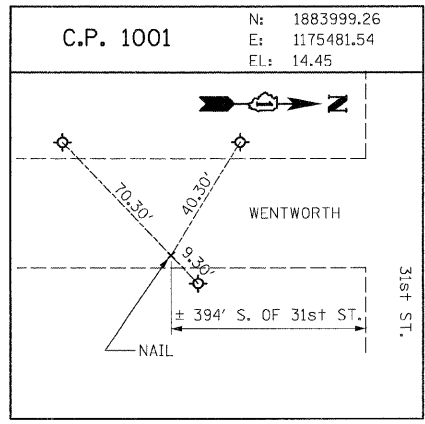
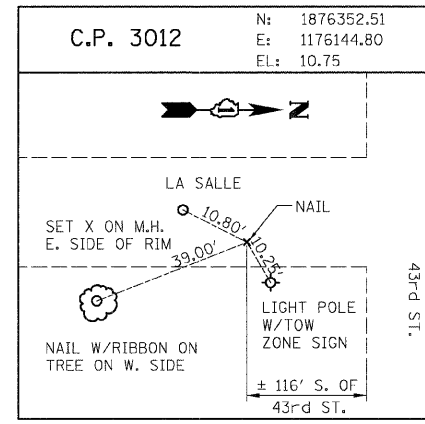
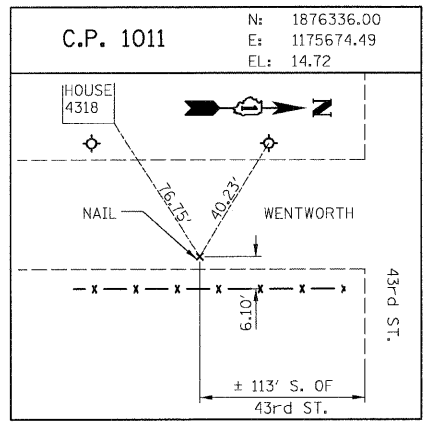
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	8
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04



RAMP P.O.T. COORDINATE INFORMATION

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP 47A	5060+00.00	1,875,185.77	1,175,764.15
END	RAMP 47A	5074+13.97	1,873,854.99	1,175,322.86
BEGIN	RAMP 47B	6059+26.00	1,874,166.99	1,175,887.94
END	RAMP 47B	6069+64.12	1,875,168.85	1,176,104.15
BEGIN	RAMP 43C	7050+00.00	1,876,238.80	1,175,669.59
END	RAMP 43C	7059+84.92	1,875,259.95	1,175,764.44
BEGIN	RAMP 43D	8051+00.00	1,875,411.12	1,176,092.10
END	RAMP 43D	8059+26.72	1,876,237.16	1,176,124.86
BEGIN	RAMP 43A	5040+09.48	1,877,475.98	1,175,723.30
END	RAMP 43A	5048+39.05	1,876,648.91	1,175,658.90
BEGIN	RAMP 43B	6040+09.40	1,876,652.70	1,176,113.96
END	RAMP 43B	6050+27.76	1,877,664.85	1,176,007.29
BEGIN	RAMP 39D	7040+16.52	1,878,882.40	1,175,597.87
END	RAMP 39D	7050+90.17	1,877,816.27	1,175,715.09
BEGIN	RAMP 39C	8040+00.00	1,877,789.82	1,176,003.91
END	RAMP 39C	8051+05.89	1,878,894.81	1,176,048.24

POINT	DESCRIPTION	STATION	NORTH	EAST
BEGIN	RAMP T35D	7040+08.53	1,880,349.18	1,175,584.62
END	RAMP T35D	7053+38.03	1,879,025.07	1,175,691.43
BEGIN	RAMP T35C	8020+34.46	1,879,121.15	1,175,958.93
END	RAMP T35C	8029+64.40	1,880,049.40	1,176,014.92
BEGIN	RAMP T39A	5020+12.77	1,881,685.70	1,175,610.45
END	RAMP T39A	5028+45.01	1,880,854.96	1,175,560.34
BEGIN	RAMP T39B	6019+89.02	1,880,556.70	1,175,995.95
END	RAMP T39B	6033+30.58	1,881,892.23	1,175,884.04
BEGIN	RAMP 35A	5000+11.94	1,883,011.02	1,175,573.65
END	RAMP 35A	5008+14.74	1,882,209.69	1,175,525.14
BEGIN	RAMP 35B	6000+06.87	1,882,050.72	1,175,953.56
END	RAMP 35B	6009+98.58	1,883,037.81	1,175,862.08
BEGIN	RAMP 31D	6998+80.64	1,884,211.76	1,175,472.66
END	RAMP 31D	7009+73.36	1,883,123.75	1,175,571.65
BEGIN	RAMP 31C	8000+11.68	1,883,273.75	1,175,856.72
END	RAMP 31C	8008+42.54	1,884,103.52	1,175,898.24

BENCH MARK NO. 3524 ELEV. 15.17
 DESCRIPTION: CROSS CUT ON NORTH FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 31st ST. AND WENTWORTH AVE.

BENCH MARK NO. 3525 ELEV. 16.93
 DESCRIPTION: CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF 35th ST. AND WENTWORTH AVE.

BENCH MARK NO. 3526 ELEV. 17.37
 DESCRIPTION: CROSS CUT ON NORTHWEST FLANGE BOLT OF FIRE HYDRANT AT THE WENTWORTH GARDEN OFFICE ALONG THE WEST SIDE OF WENTWORTH AVE.

BENCH MARK NO. 3527 ELEV. 15.63
 DESCRIPTION: CROSS CUT ON NORTHERLY FLANGE BOLT OF FIRE HYDRANT AT THE NORTHWEST CORNER OF ROOT ST. AND WENTWORTH AVE.

BENCH MARK NO. 3539 ELEV. 13.10
 DESCRIPTION: CROSS CUT ON EASTERLY BOLT OF LIGHT POLE BASE AT THE SOUTHEAST CORNER OF 43rd ST. AND LA SALLE ST.

BENCH MARK NO. 3540 ELEV. 12.33
 DESCRIPTION: SQUARE CUT ON THE SOUTHWEST CORNER OF THE TRAFFIC CONTROL BOX AT THE NORTHEAST CORNER OF 39th ST. AND LA SALLE ST.

BENCH MARK NO. 3541 ELEV. 14.78
 DESCRIPTION: CROSS CUT ON THE SOUTHWEST BOLT OF LIGHT POLE BASE AT THE SOUTH EAST CORNER OF 35th ST. AND LA SALLE ST.

BENCH MARK NO. 3542 ELEV. 13.57
 DESCRIPTION: CROSS CUT ON THE EASTERLY FLANGE BOLT OF THE FIRE HYDRANT AT THE INTERSECTION OF 31st ST. AND LA SALLE ST.

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REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE & GATES (47TH ST TO 31ST ST)

ALIGNMENT PLAN

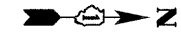
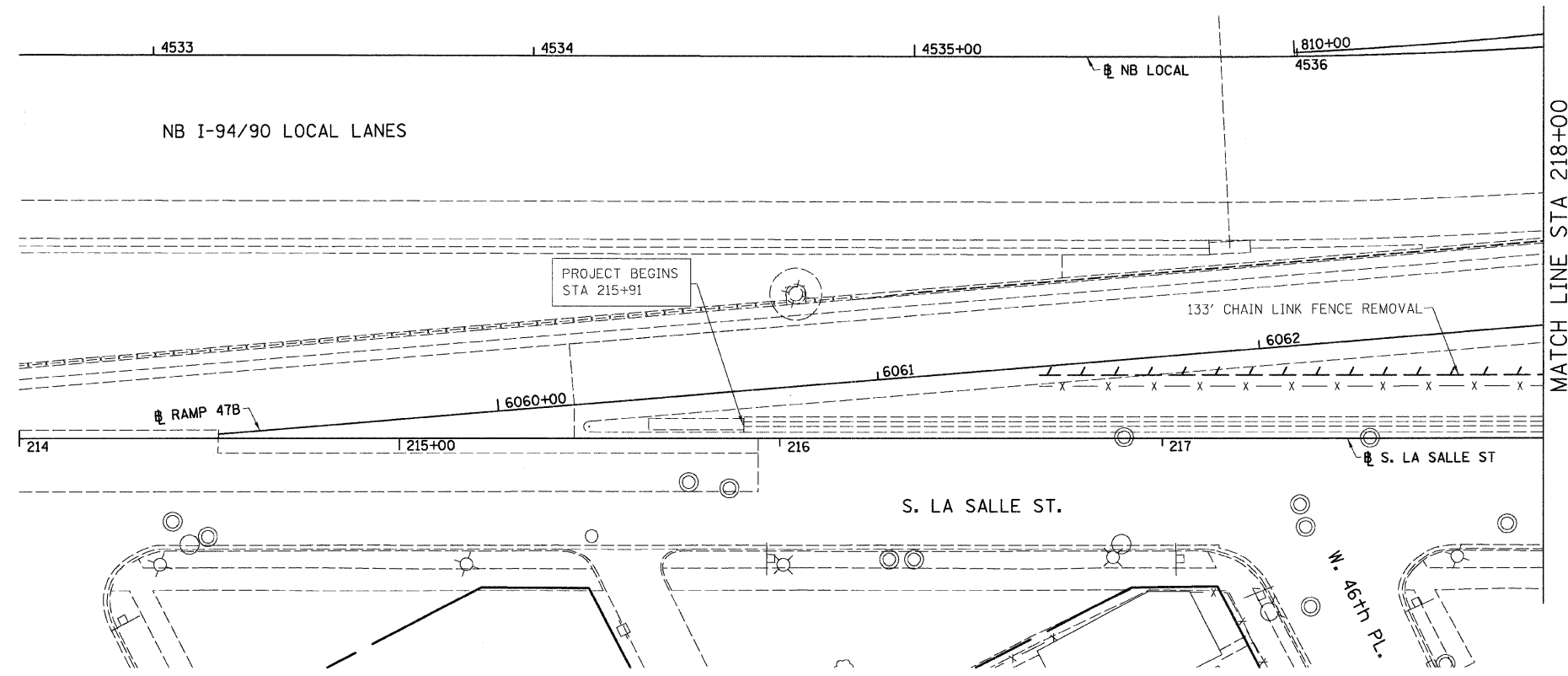
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DRAWN BY: JDC
 CHECKED BY: RS

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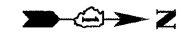
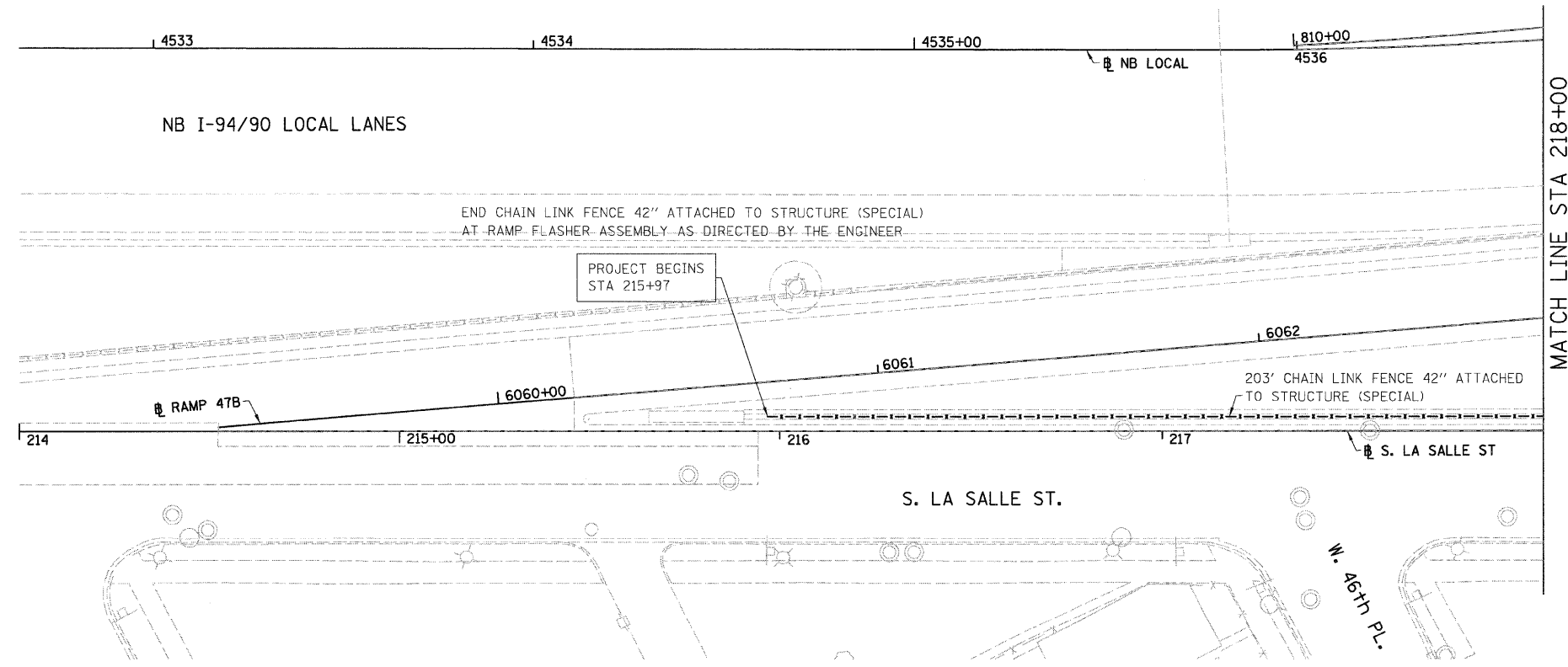
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	9
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

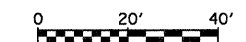


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-1

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

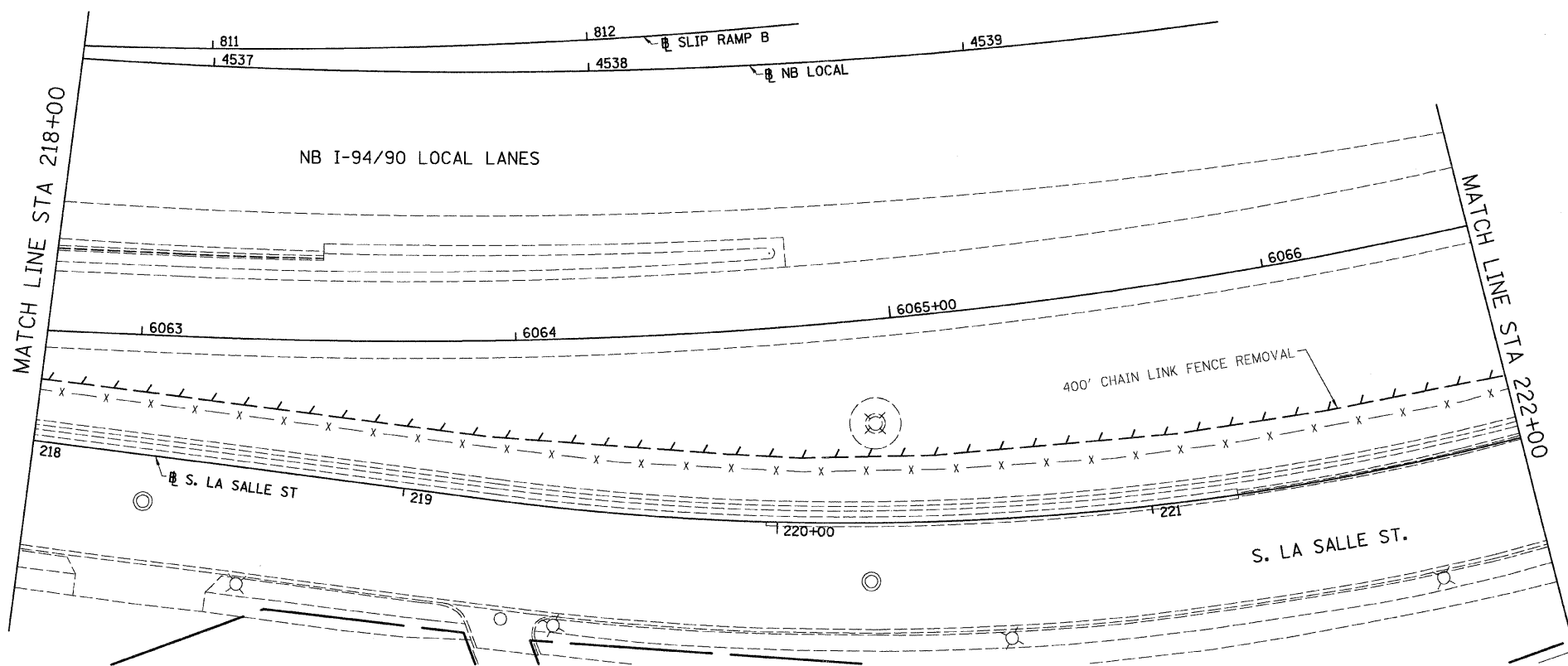
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12/28/08 PM 10/24/2008

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	10
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

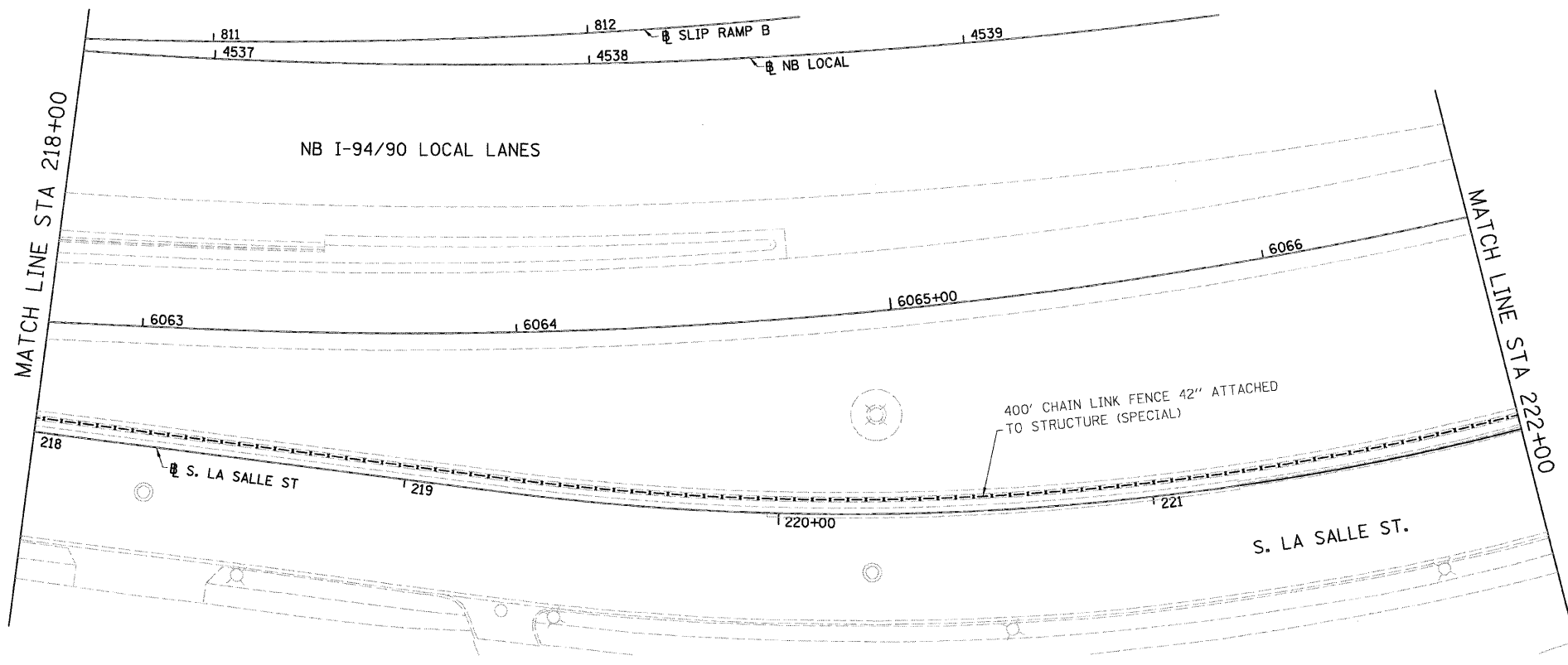
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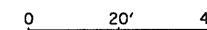
--- LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-2

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

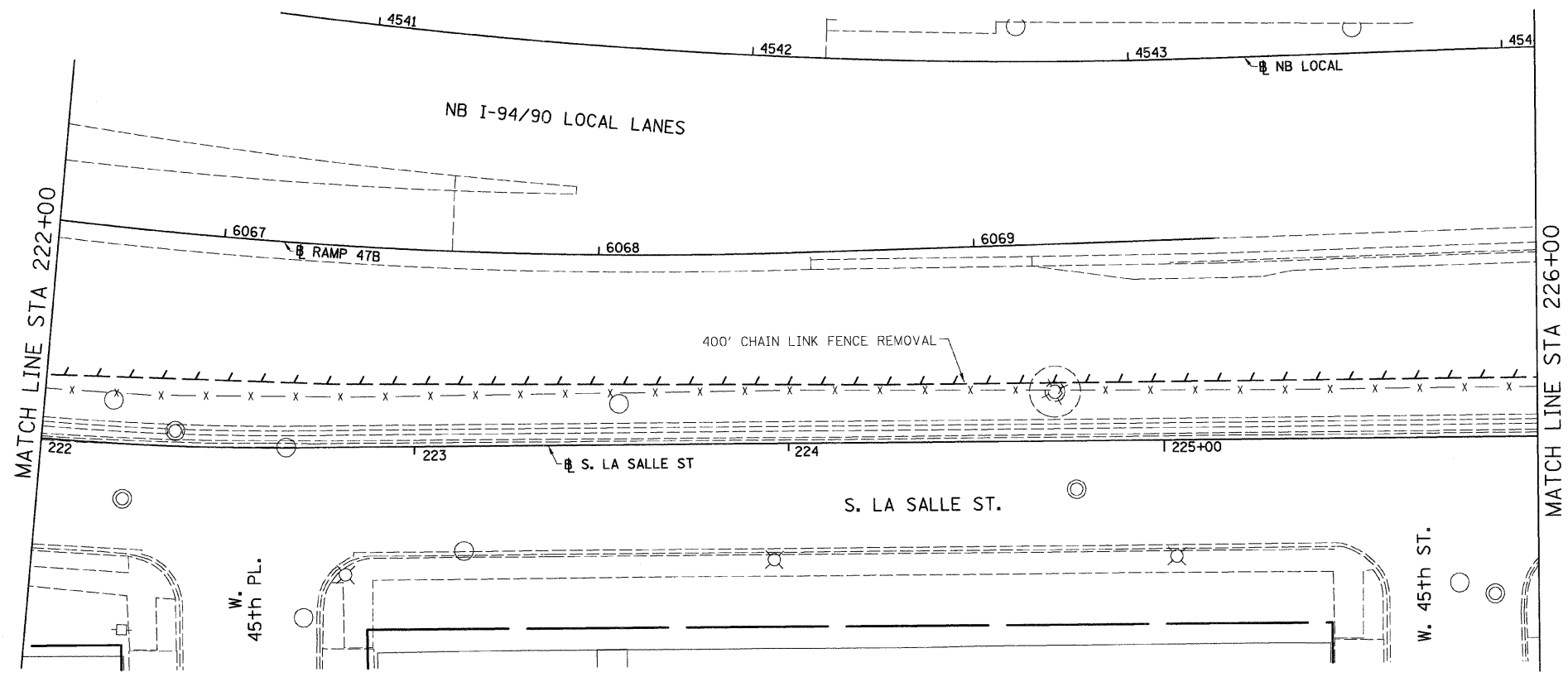
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10/24/2008 12:28:46 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

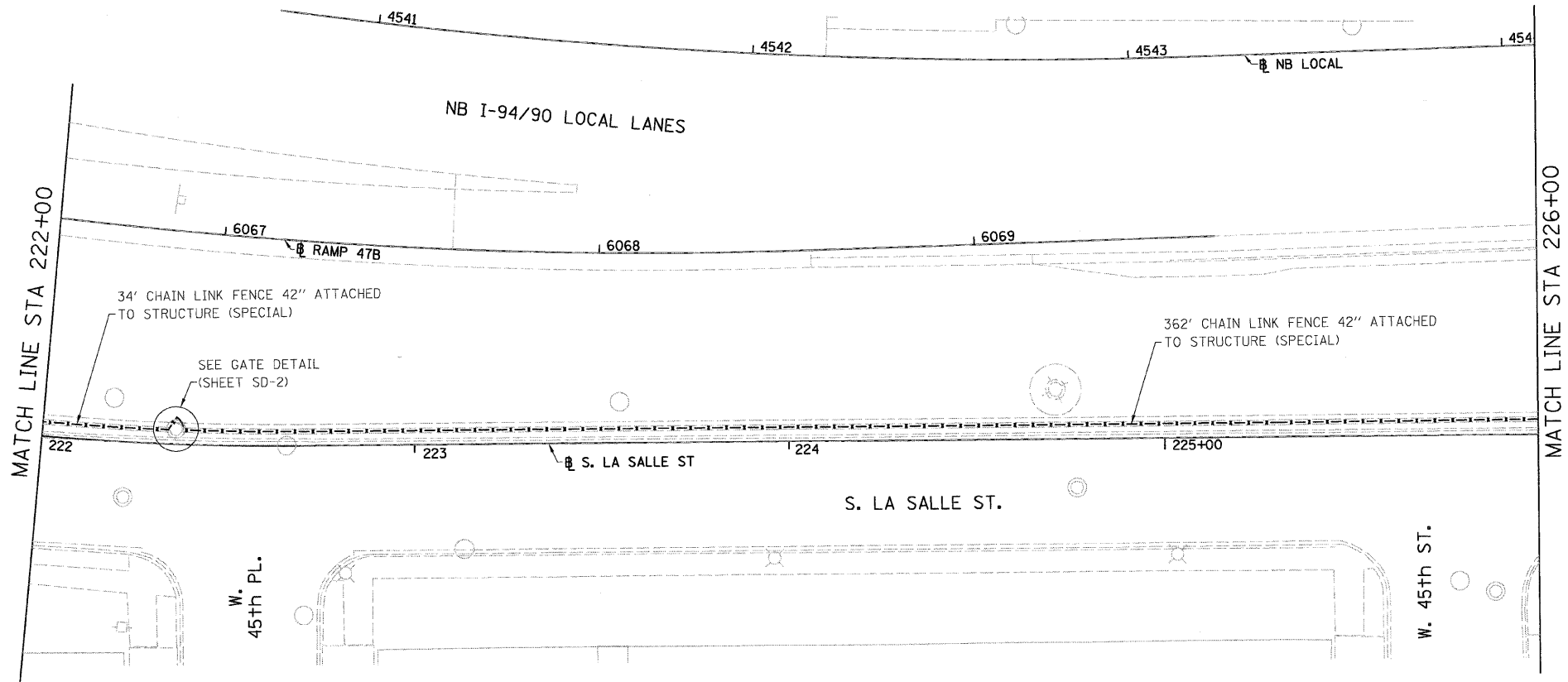
60A04



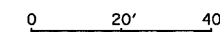
LEGEND:

 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-3

REVISIONS	
NAME	DATE

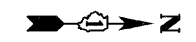
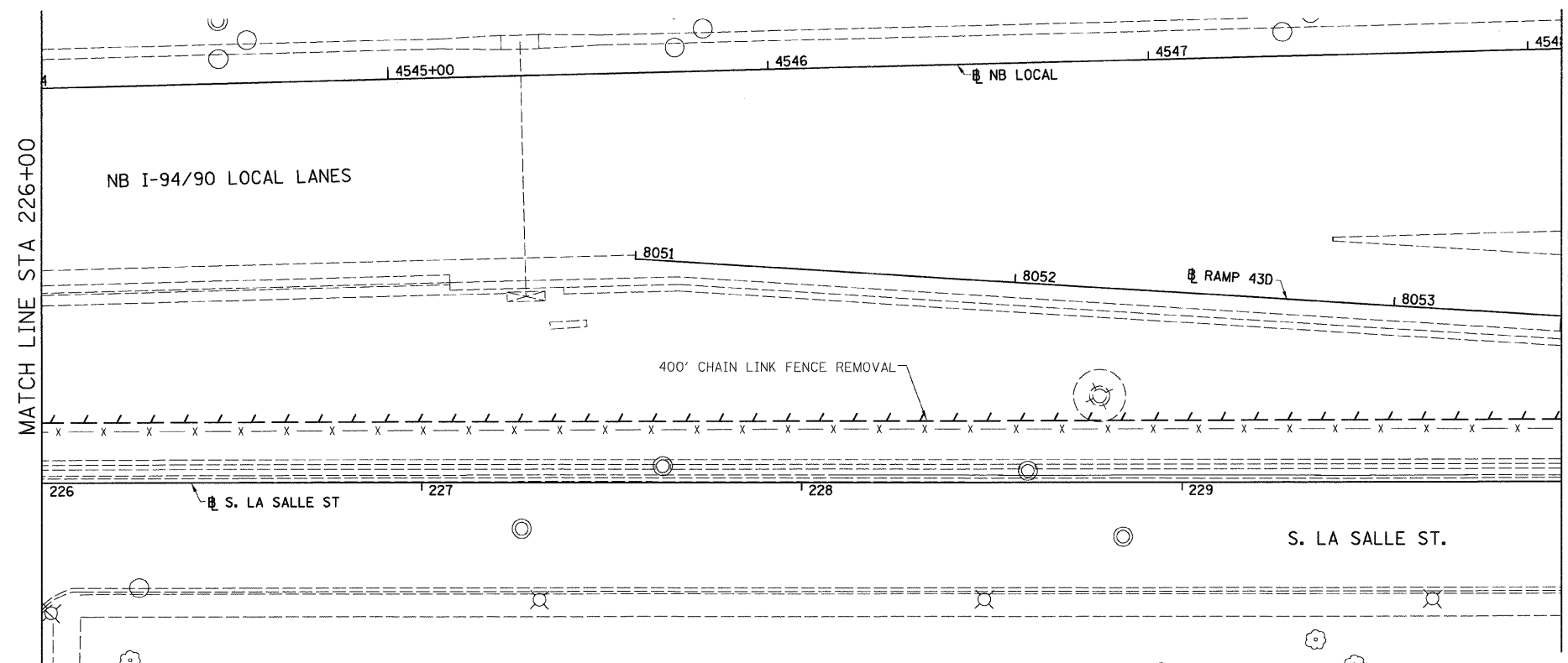
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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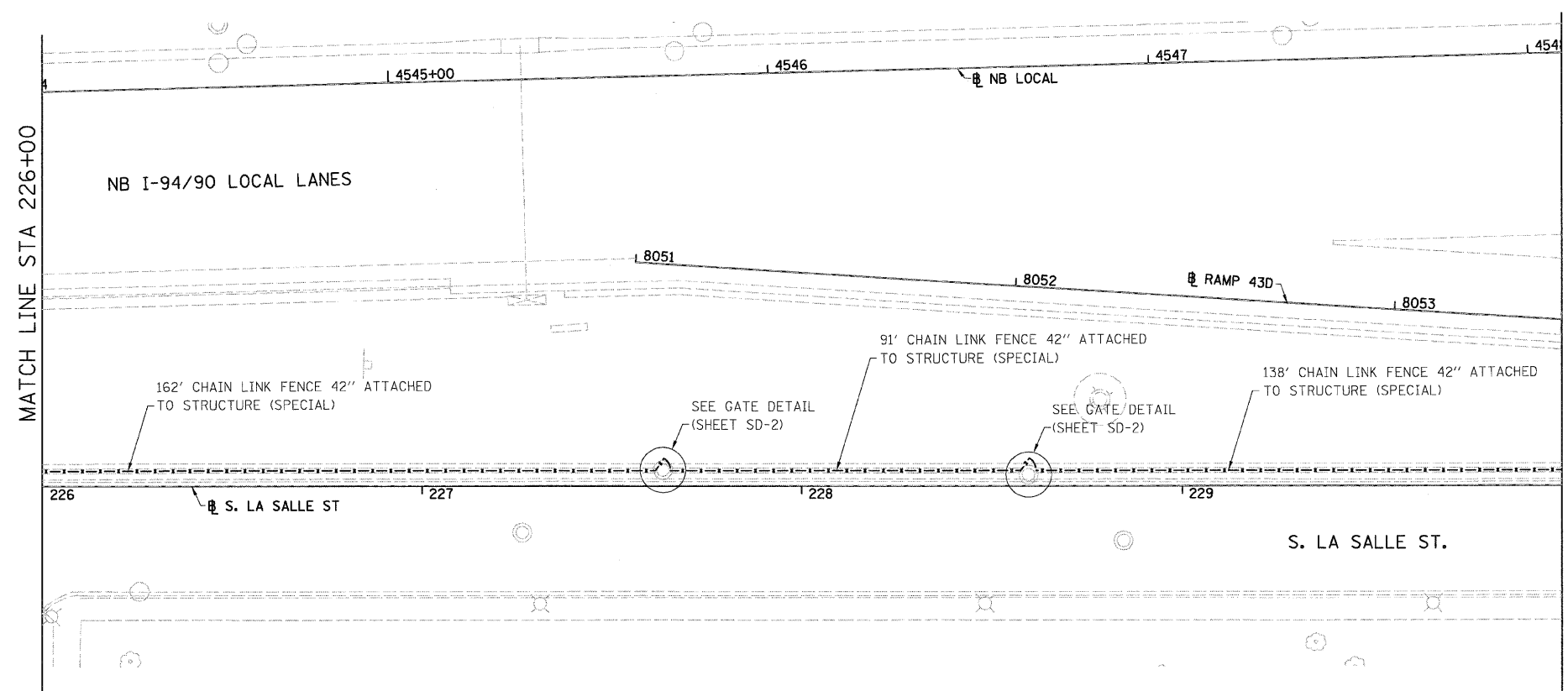
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	12
STA.		TO STA.		
60A04				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

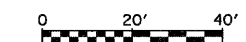


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-4

REVISIONS NAME	DATE

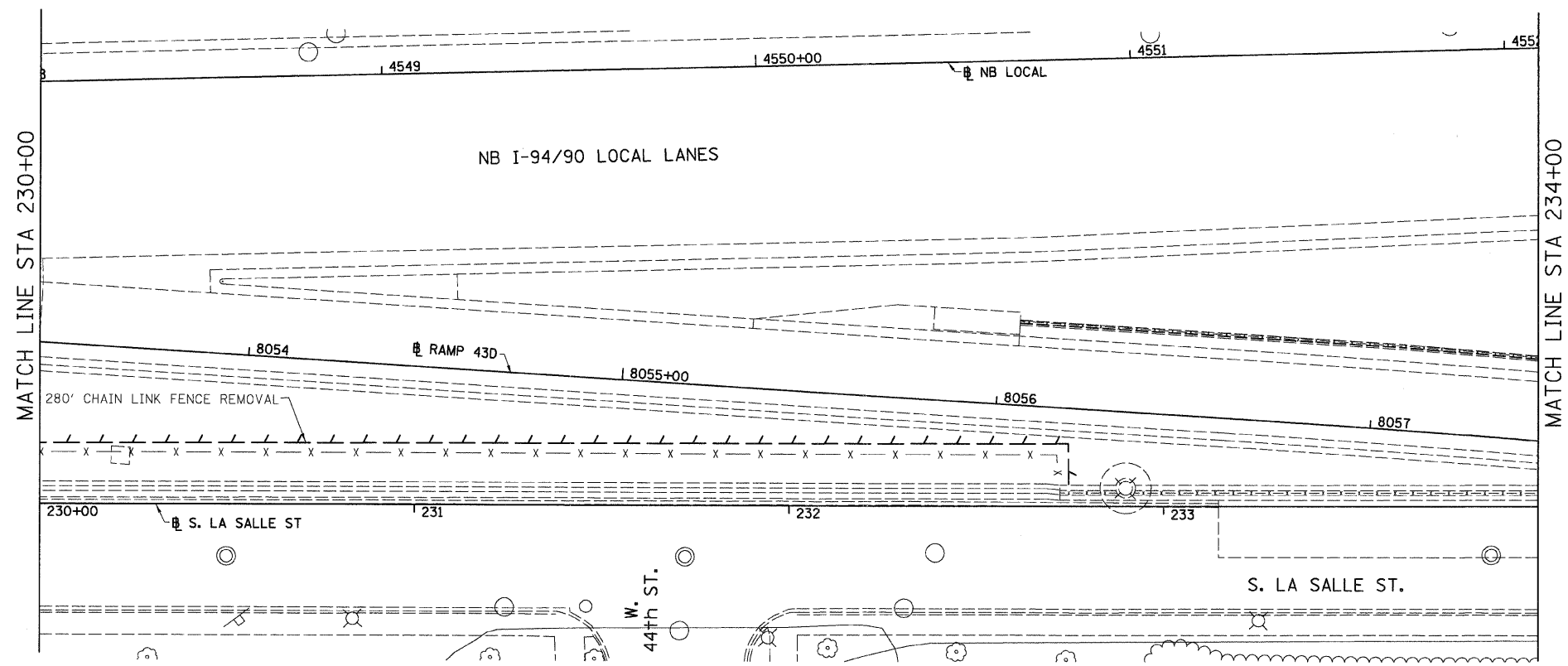
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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10/24/2008 12:35 PM

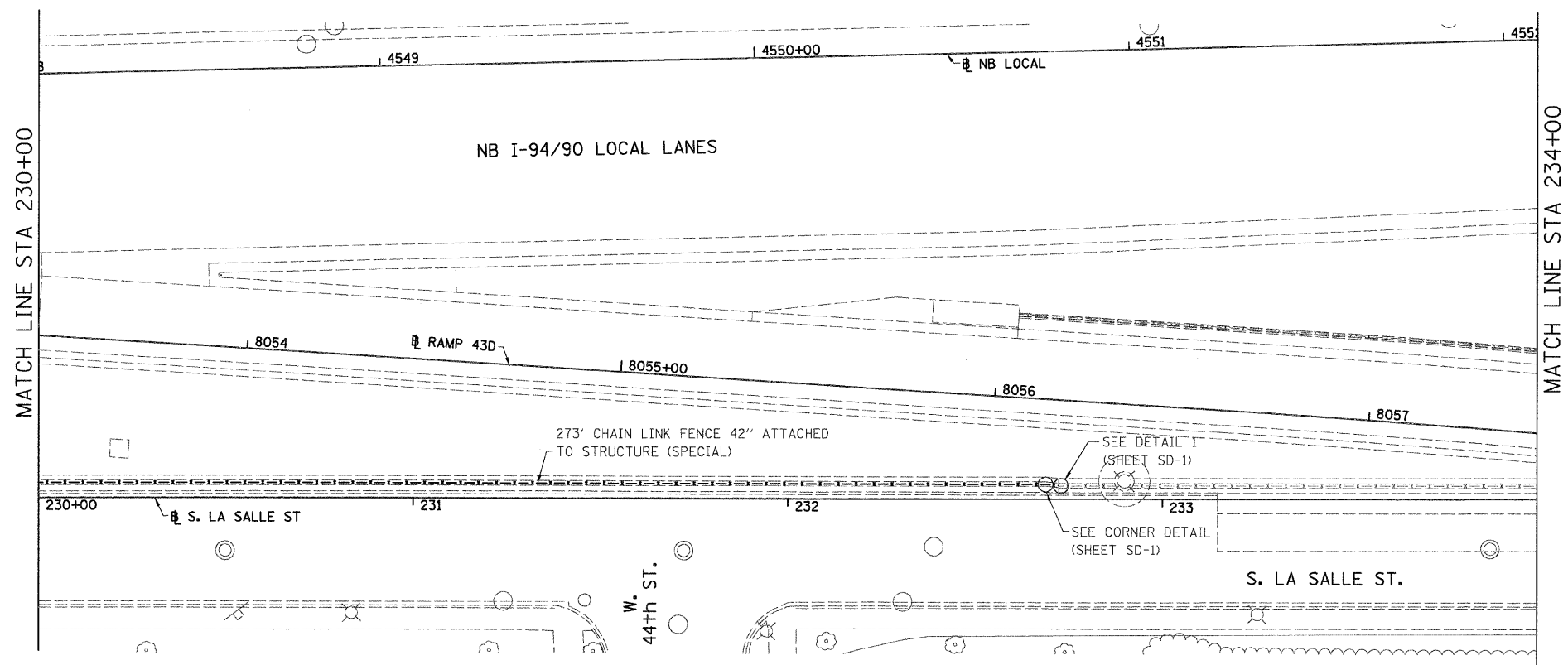
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	13
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
60A04				



LEGEND:

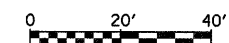
LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-5

REVISIONS	NAME	DATE
1	REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE:
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

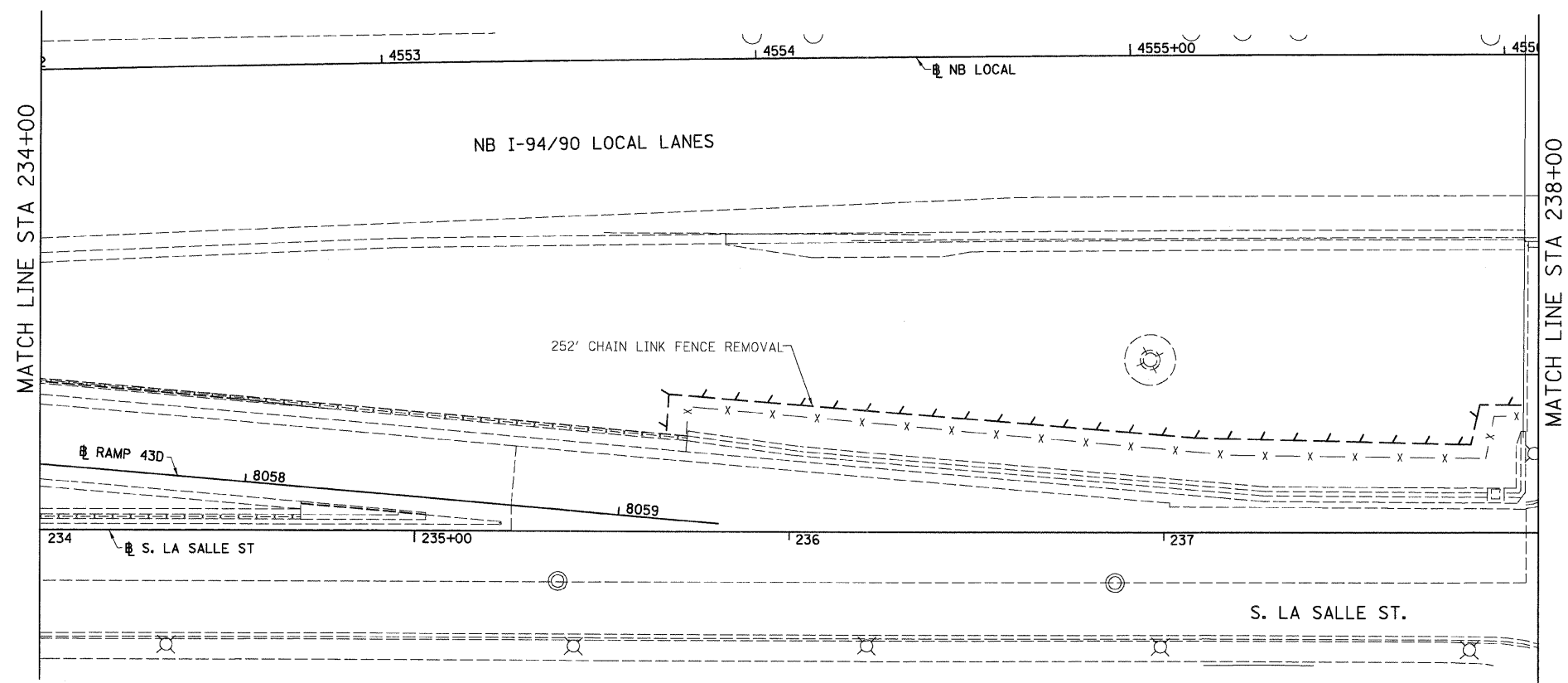
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11/5/2008

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	14
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

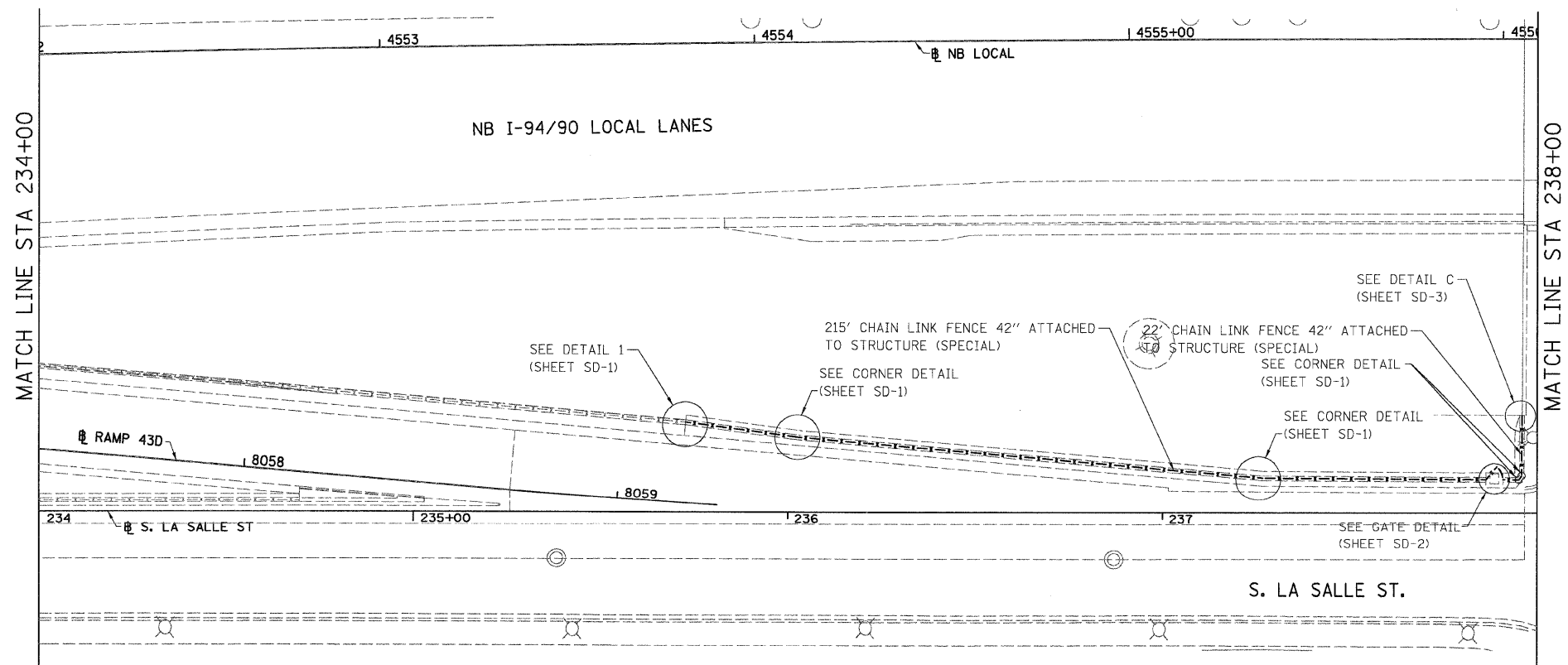
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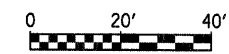
--- LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

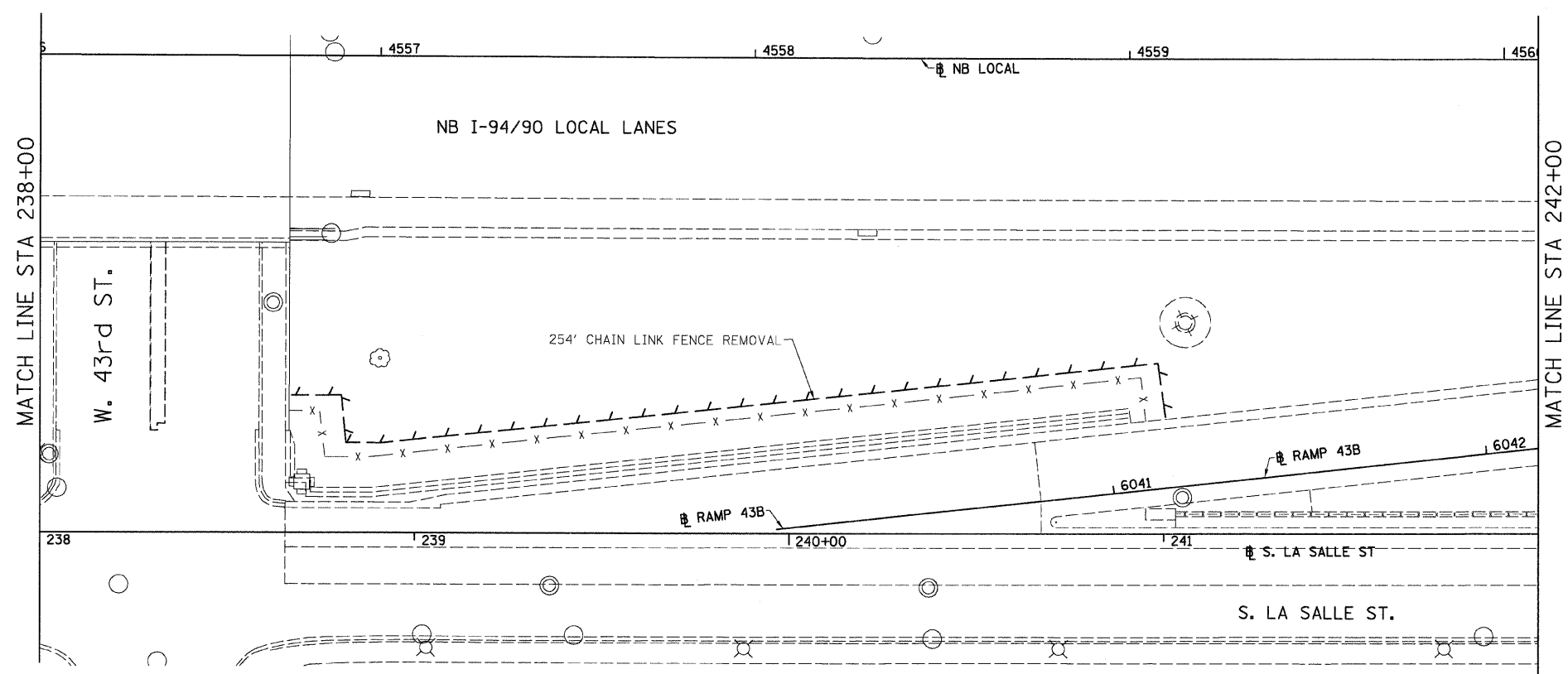
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PL-6

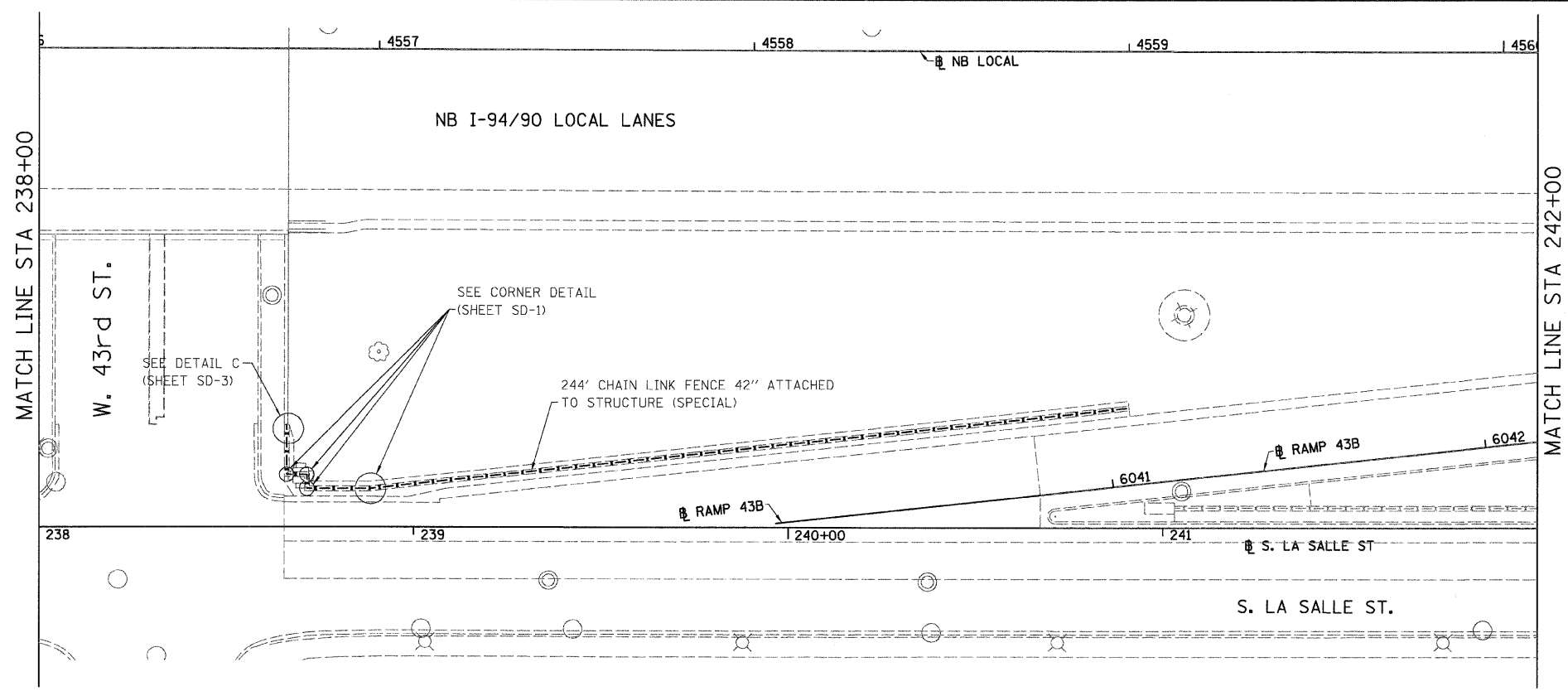
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
60A04				

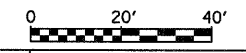


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42'' ATTACHED TO STRUCTURE (SPECIAL).



REVISIONS	
NAME	DATE
REVISED	11/5/08

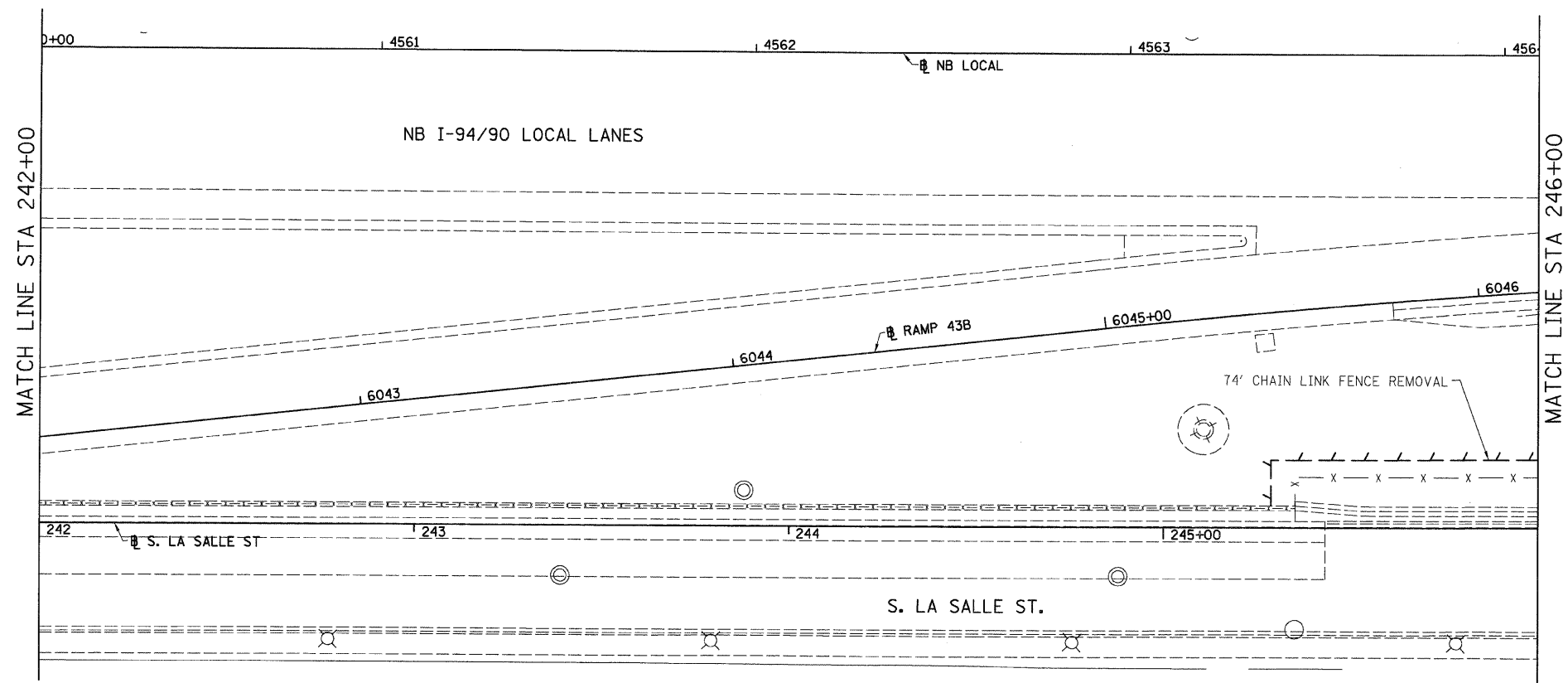
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
**EXISTING AND PROPOSED
 FENCE PLANS**
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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 PL-7
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

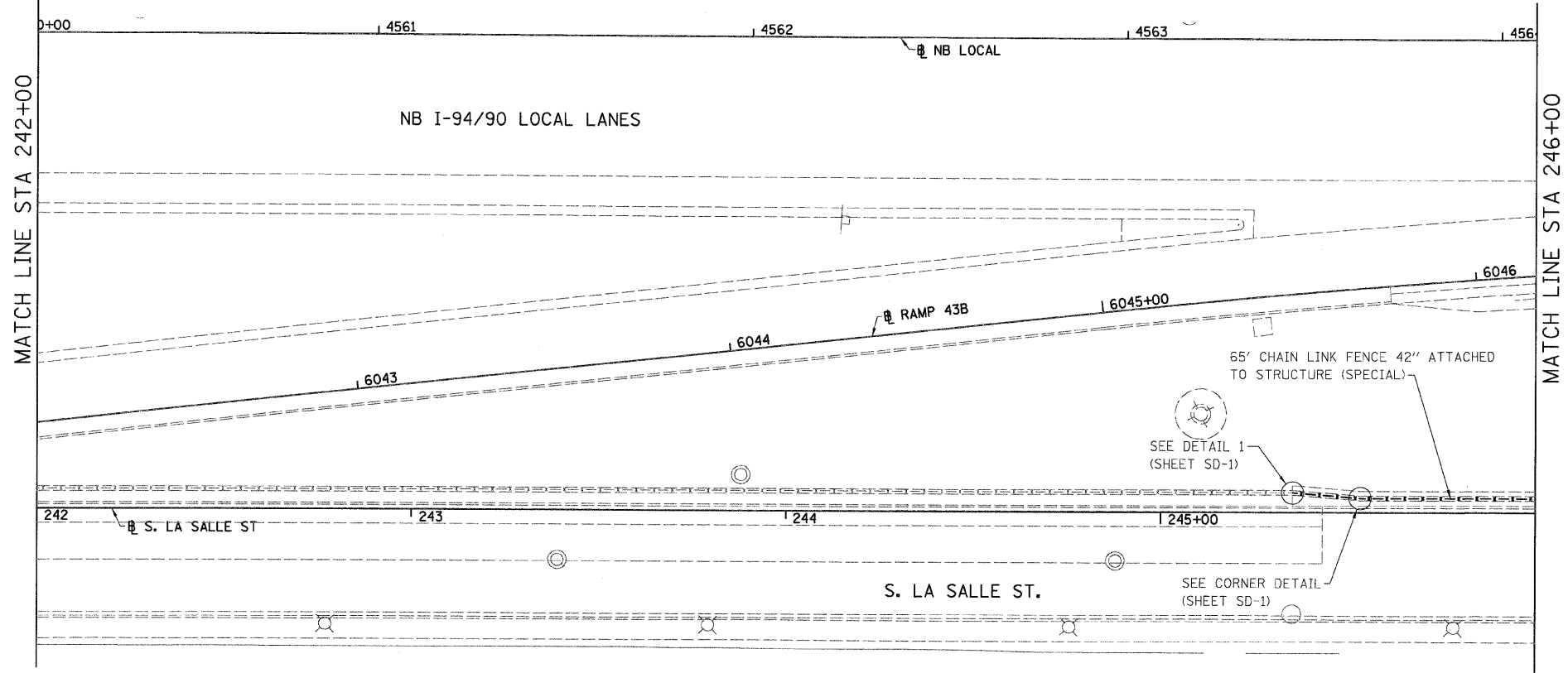
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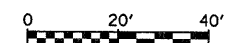
--- LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-8

REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

**EXISTING AND PROPOSED
FENCE PLANS**

SCALE: 1"=20'
DATE: 10/23/08

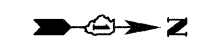
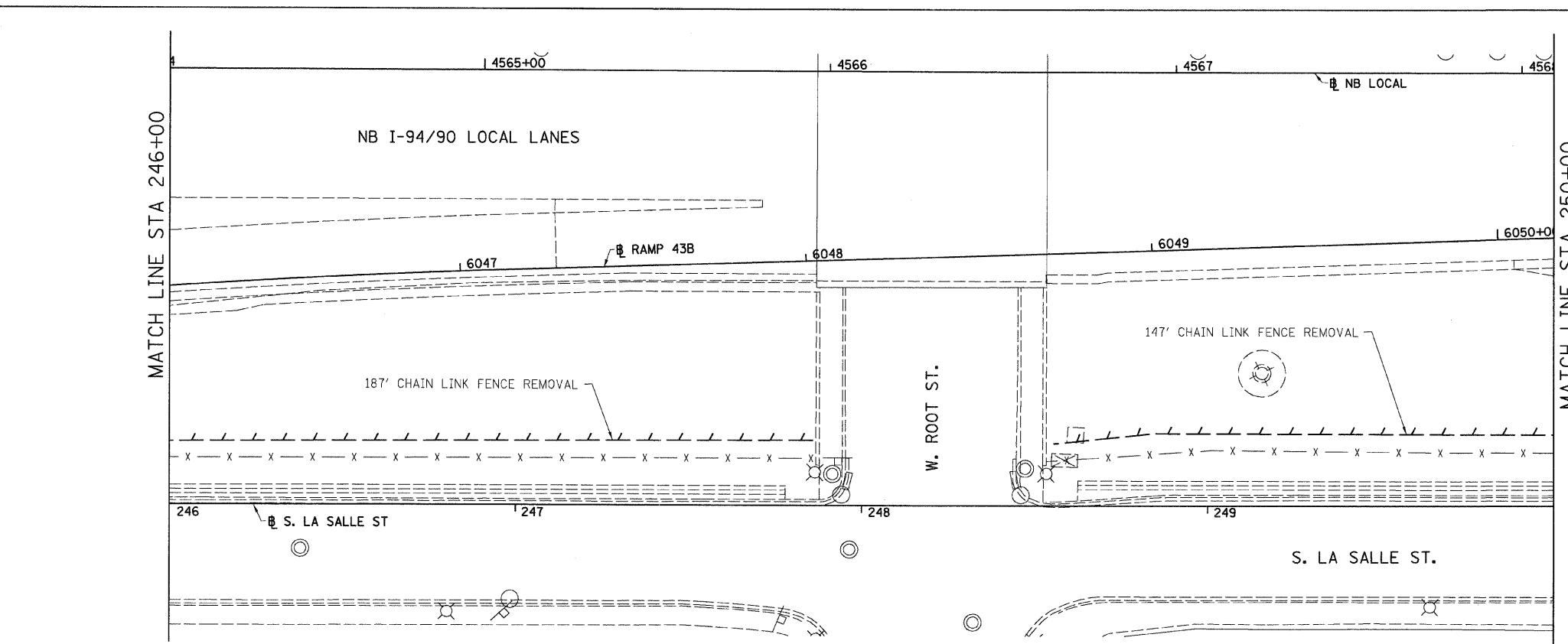
DRAWN BY: JDC
CHECKED BY: DDM

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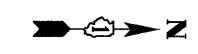
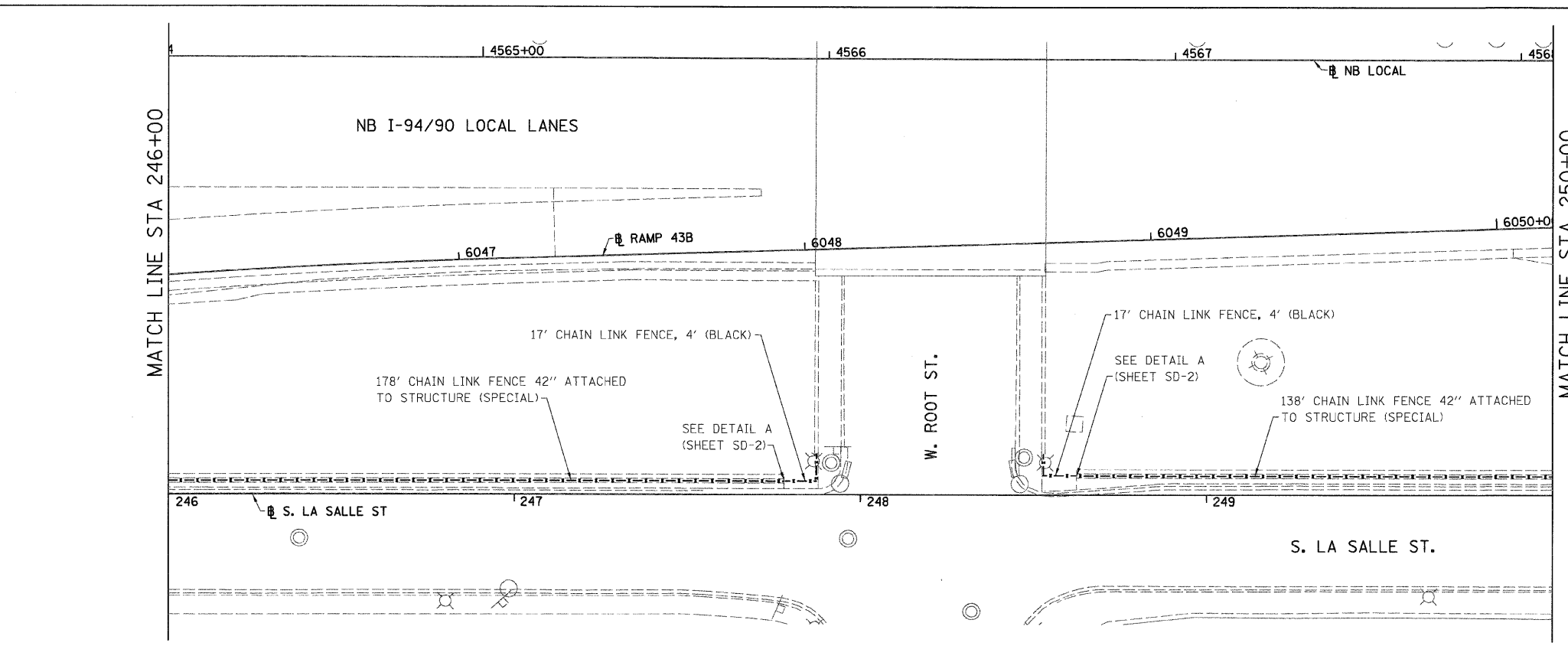


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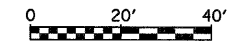
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	17
STA.		TO STA.		
60A04				
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



LEGEND:
 LINEAR REMOVALS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



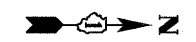
REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

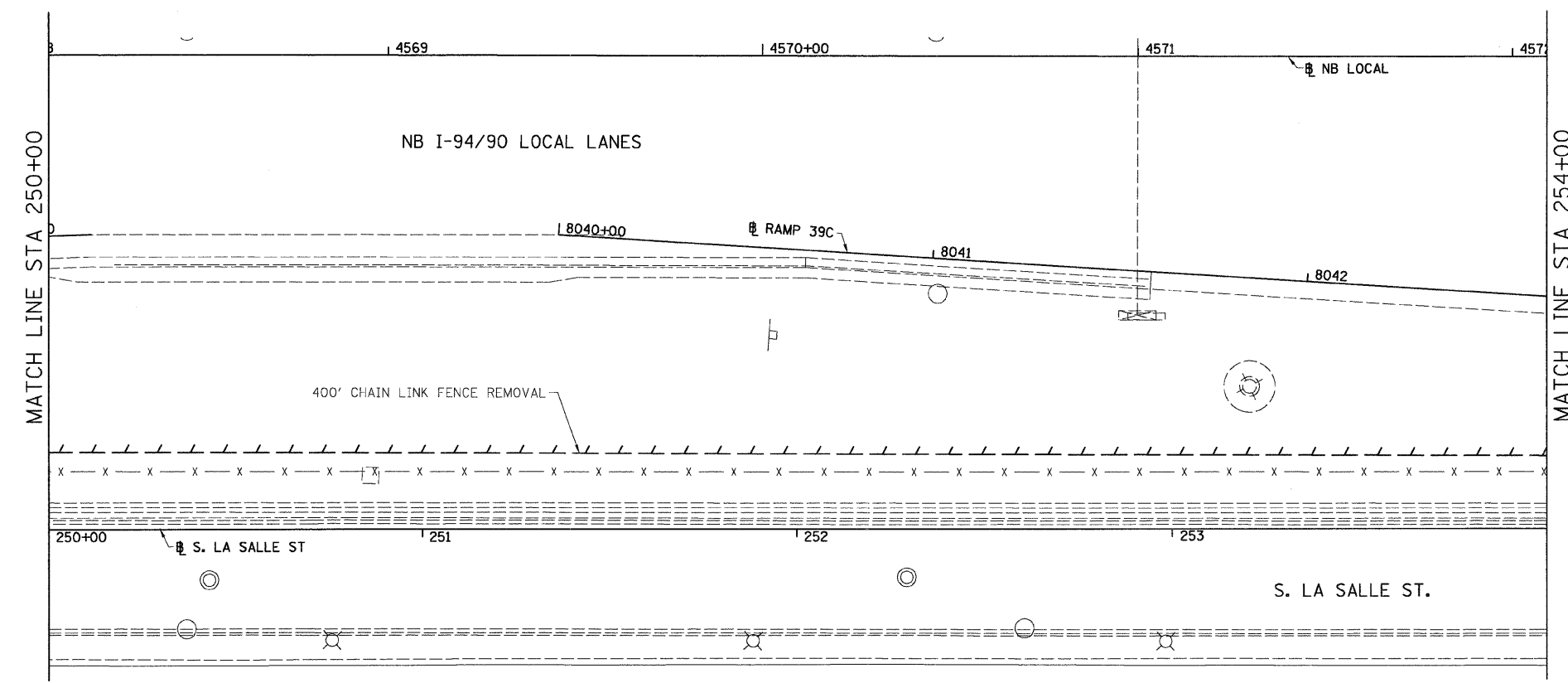
BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
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11/5/2008 5:08:59 PM PL-9

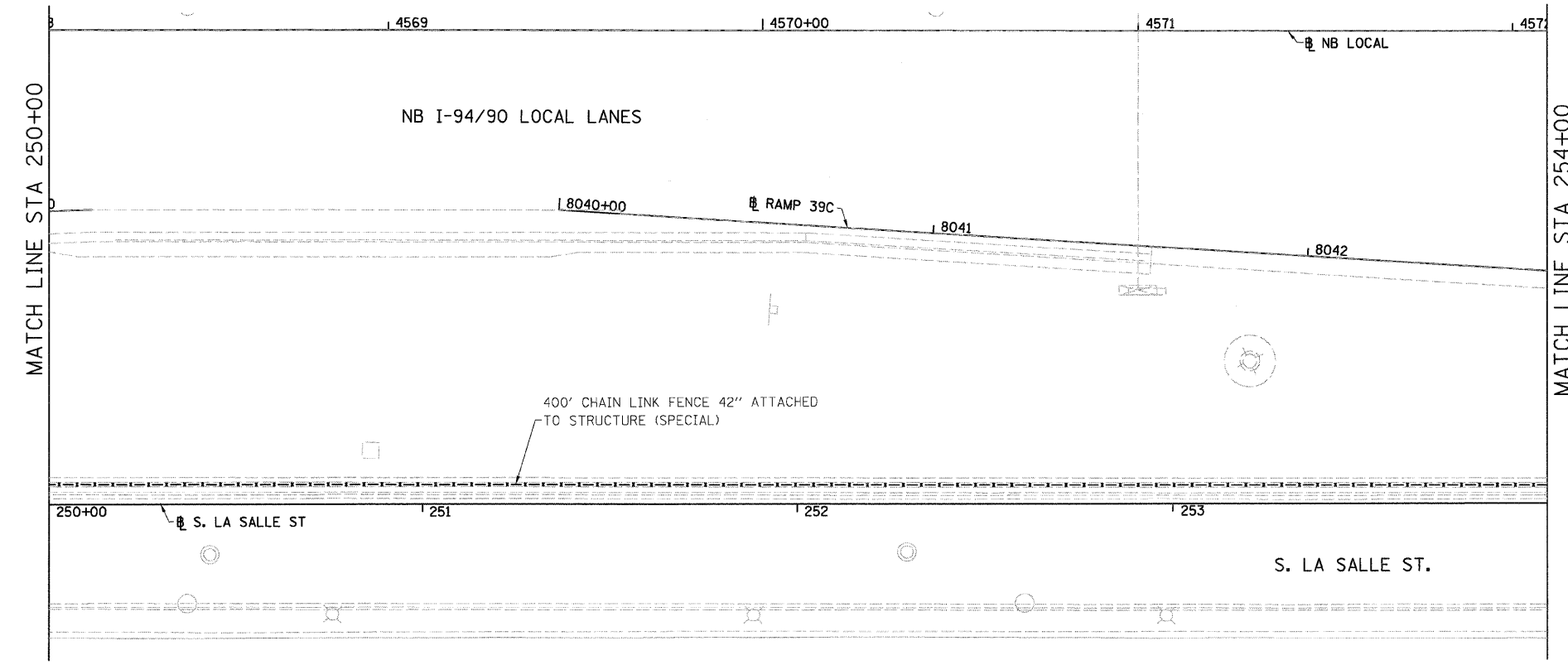
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
60A04				



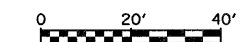
LEGEND:
 LINEAR REMOVALS



EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-10

REVISIONS	
NAME	DATE

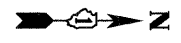
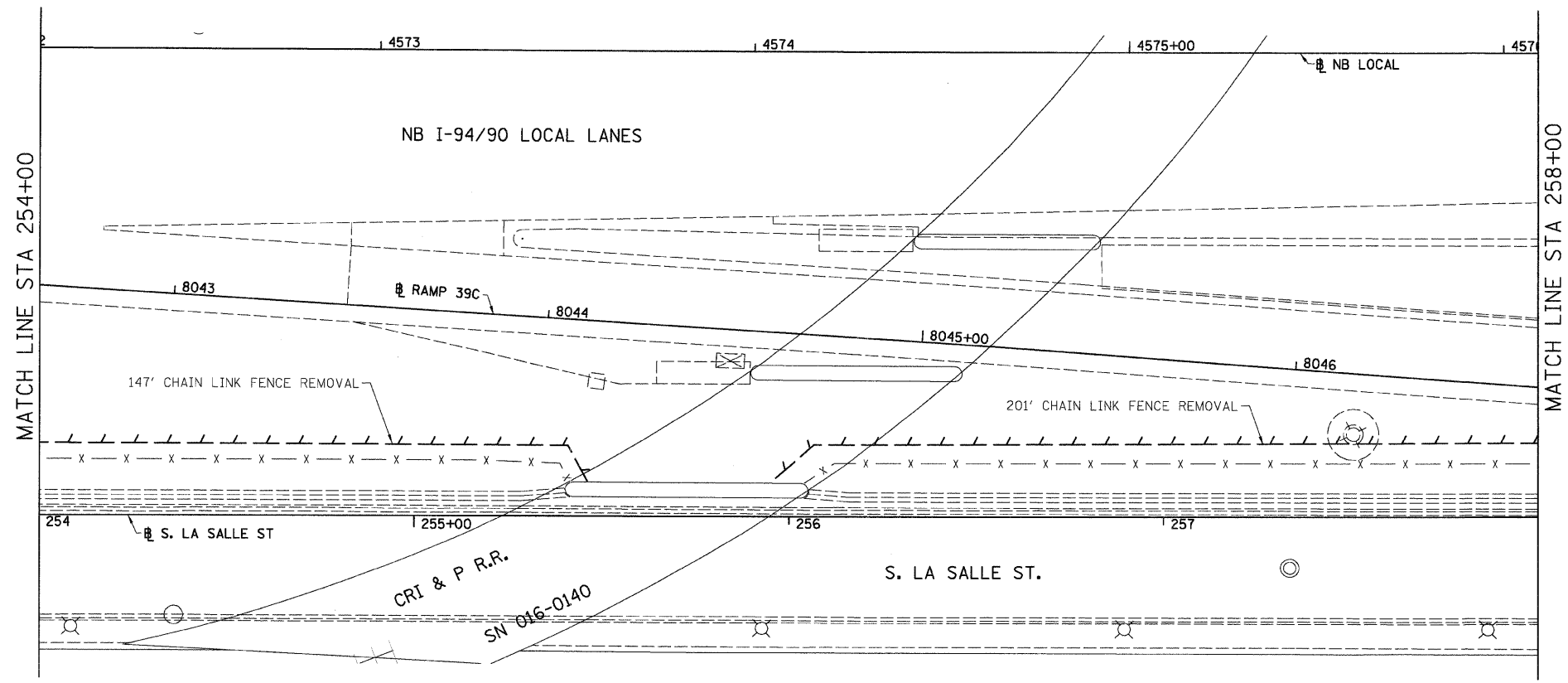
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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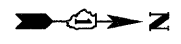
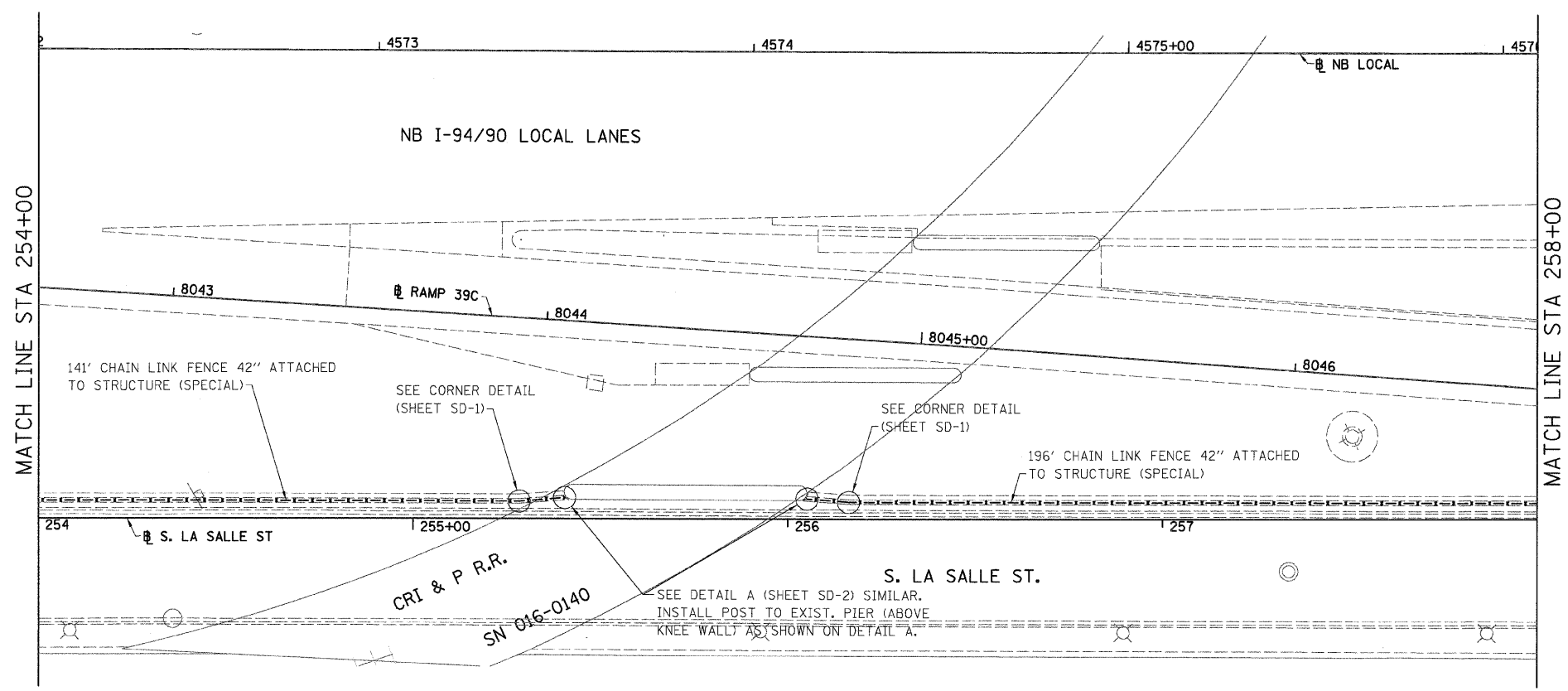
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
60A04				

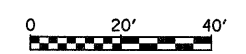


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



REVISIONS	
NAME	DATE
REVISED	11/5/08

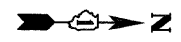
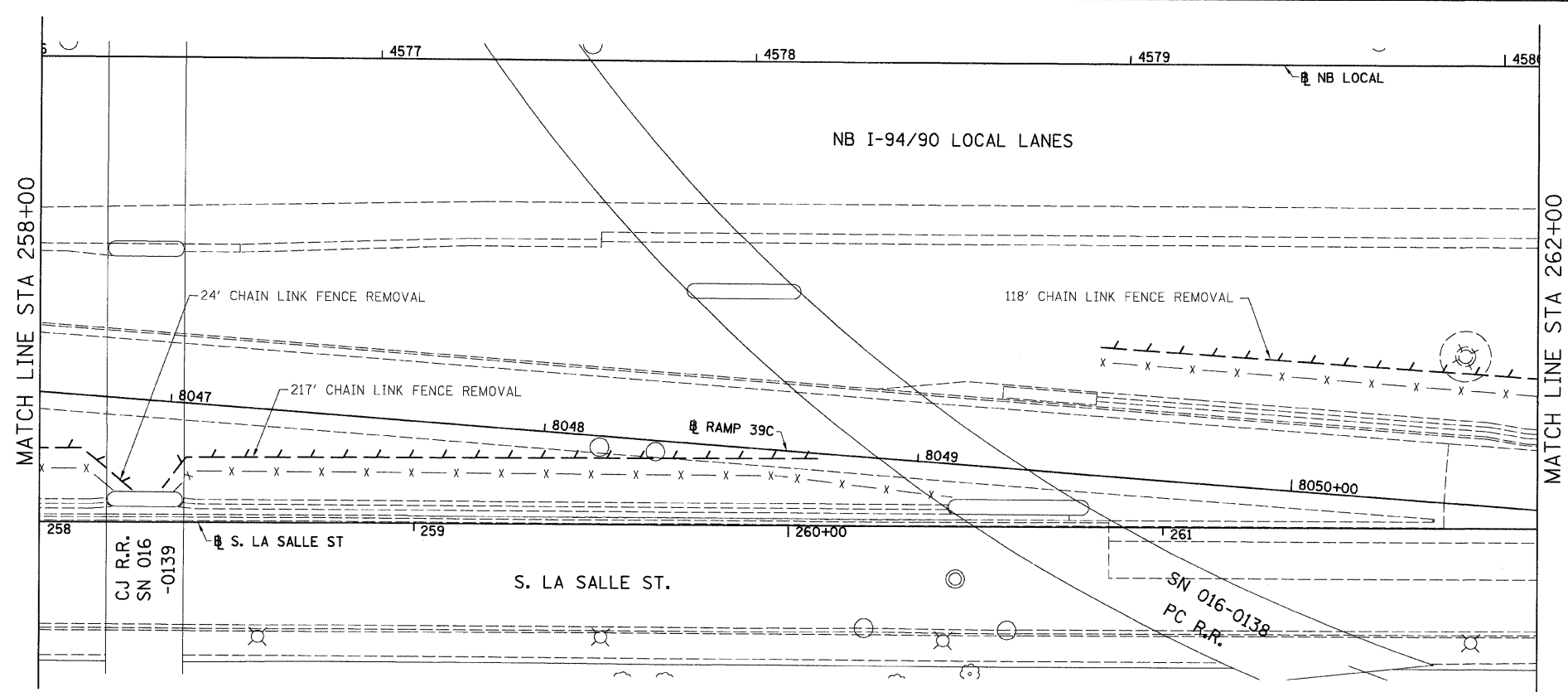
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
**EXISTING AND PROPOSED
 FENCE PLANS**
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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PL-11
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 11/5/2008

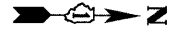
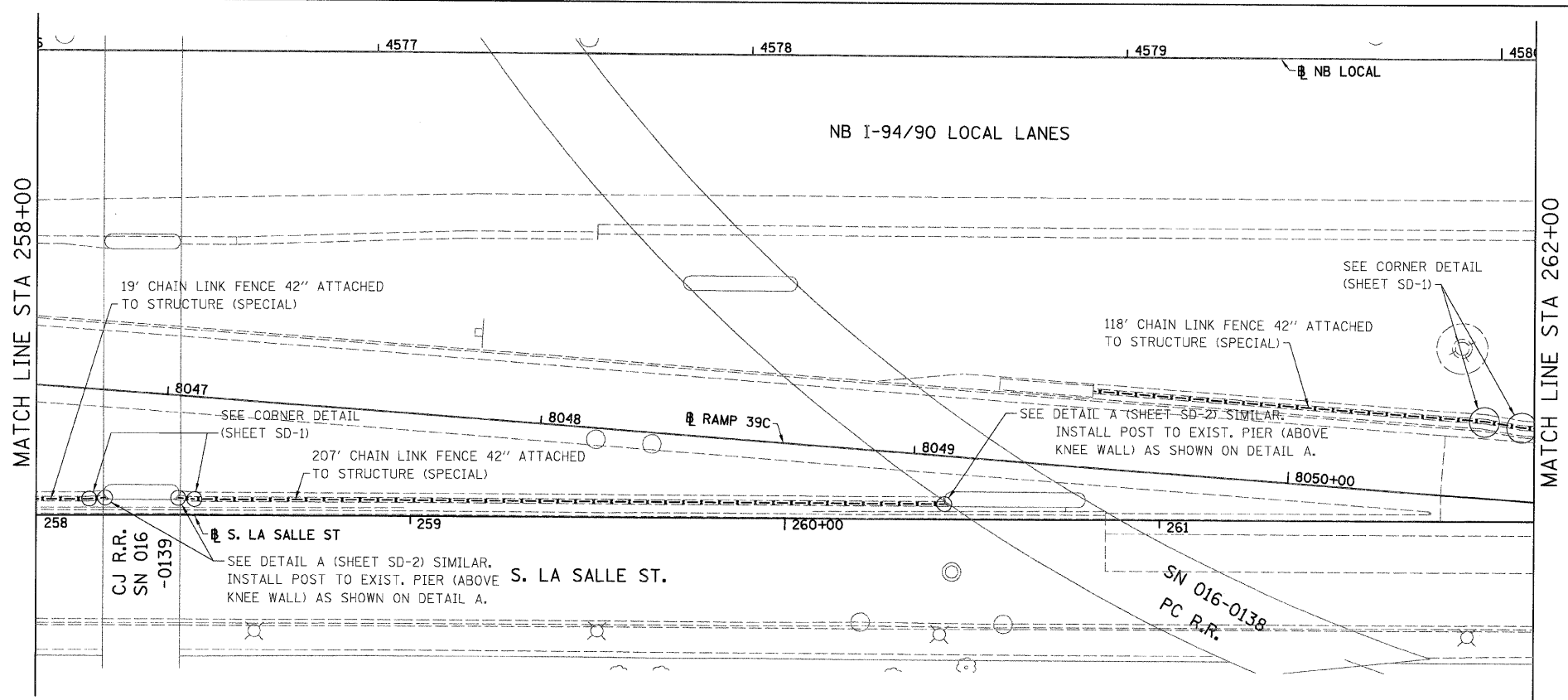
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	20
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

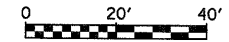


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-12

REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
 FENCE PLANS

SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: ODM

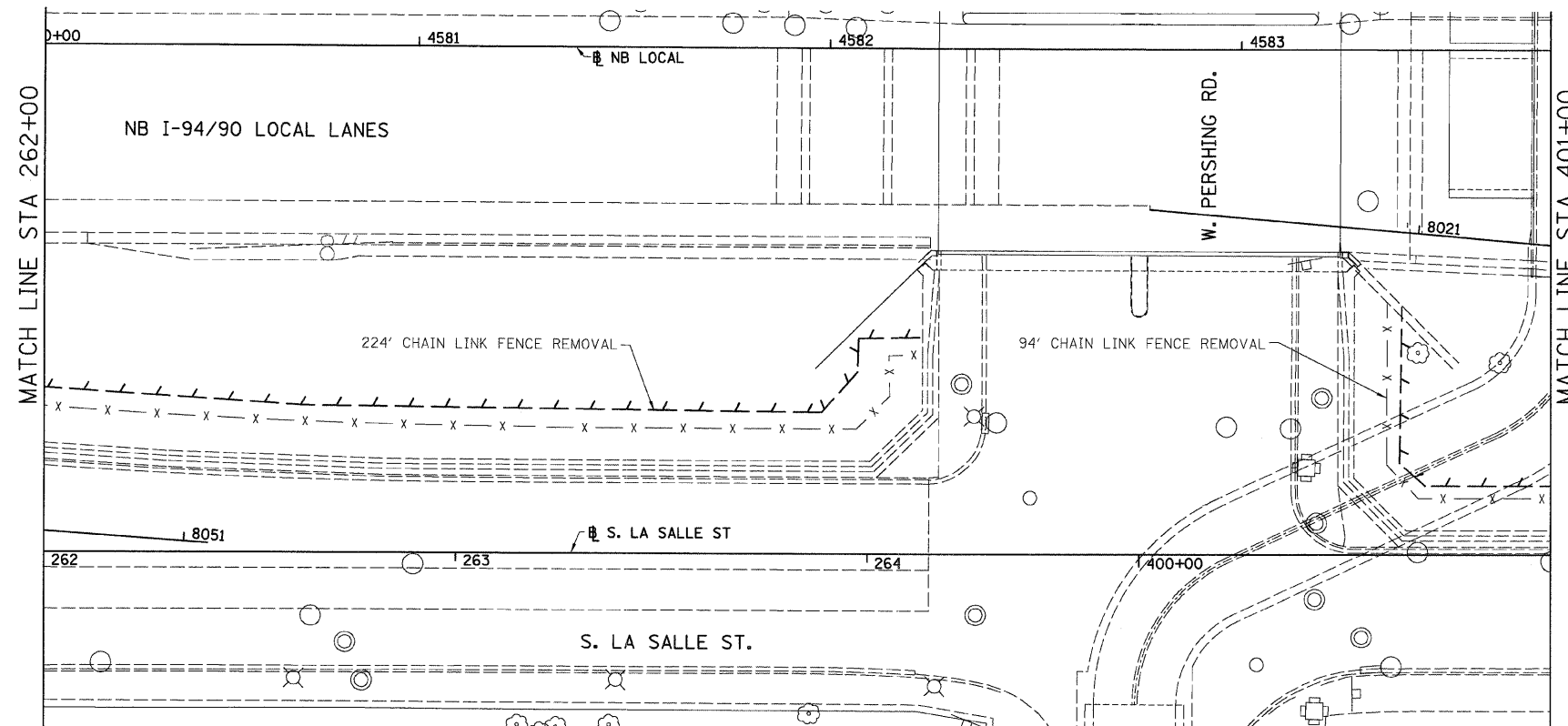
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	21
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

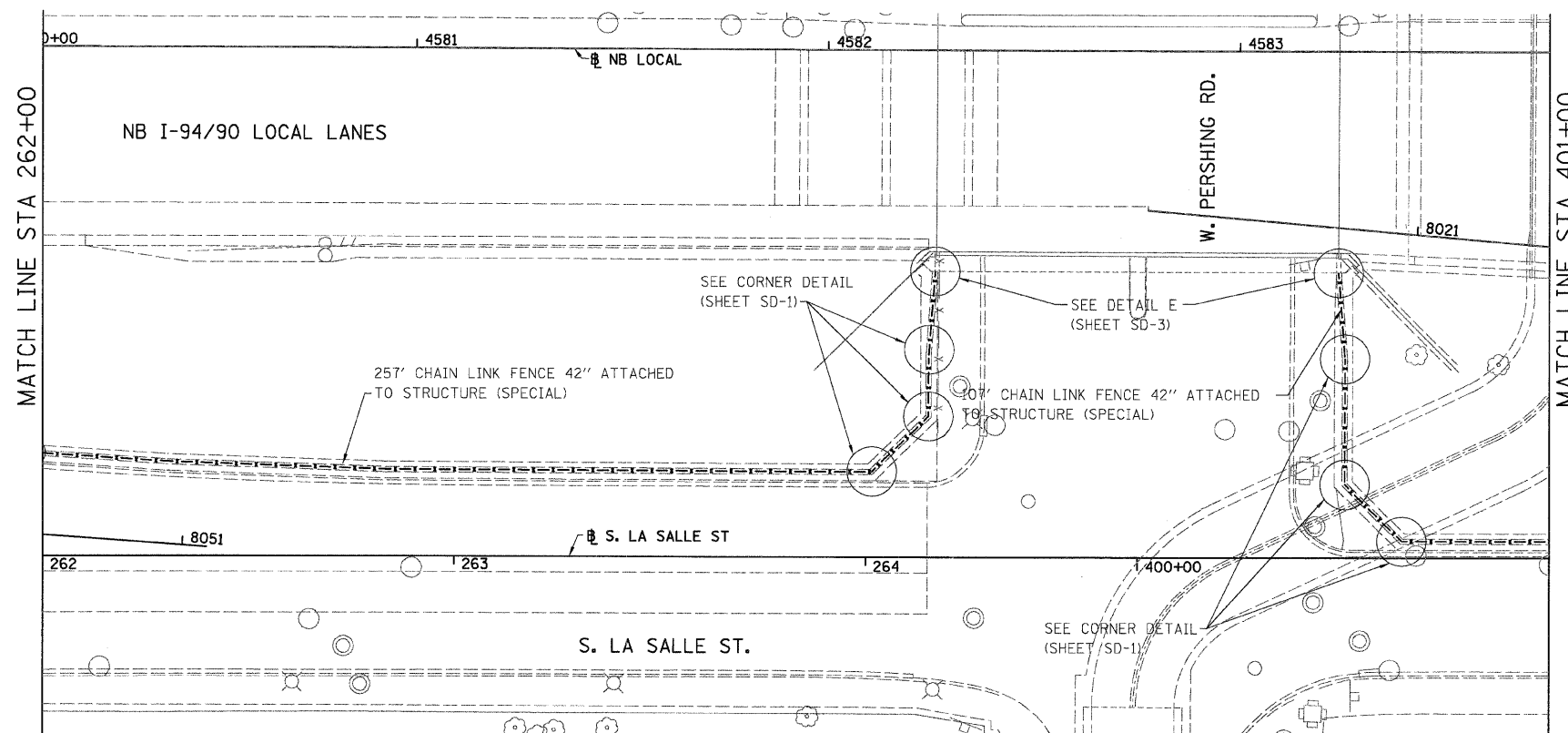
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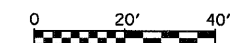
LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-13

REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

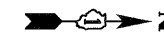
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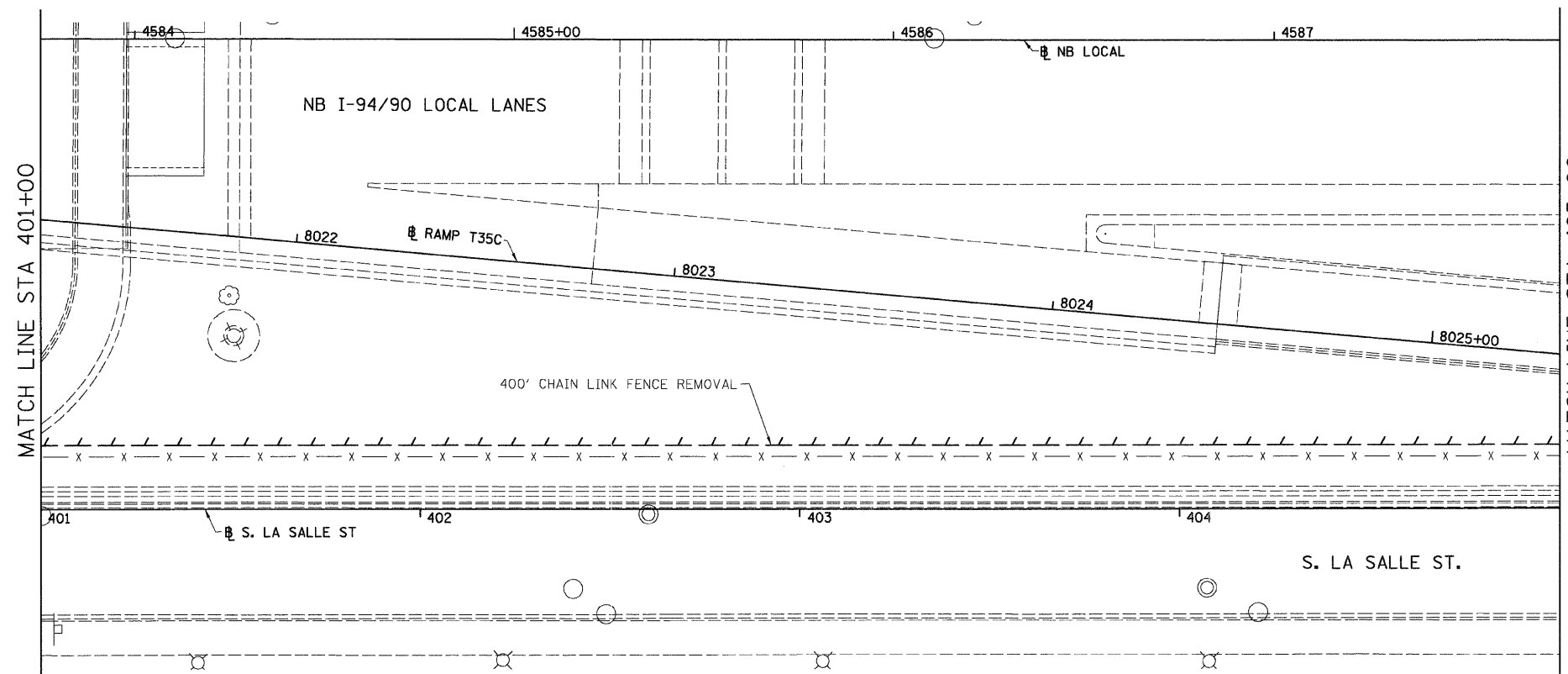
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94/90	2005-0331	COOK	37	22
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

60A04

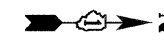
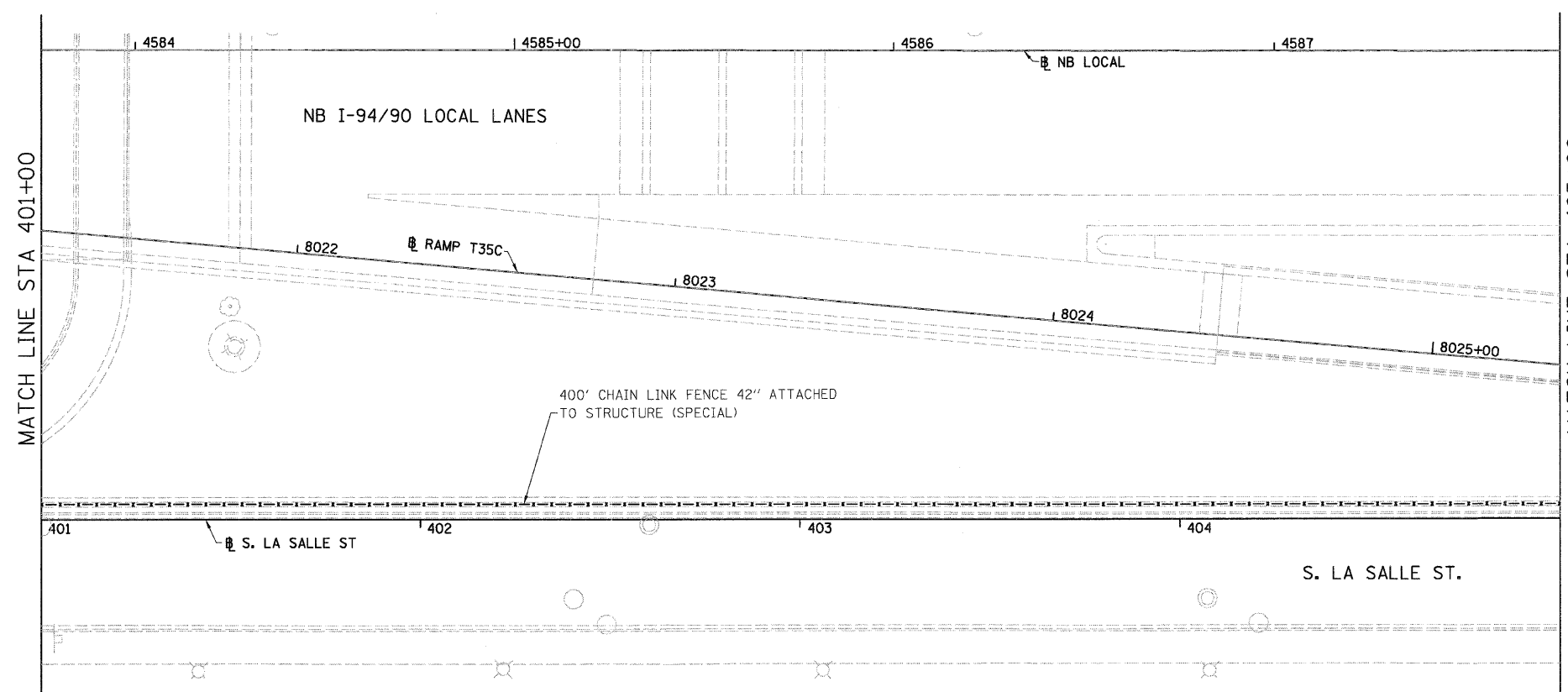


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LINEAR REMOVALS

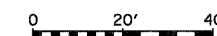


EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-14

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

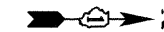
BOWMAN, BARRETT & ASSOCIATES INC.
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12/24/2008 12:52:03 PM

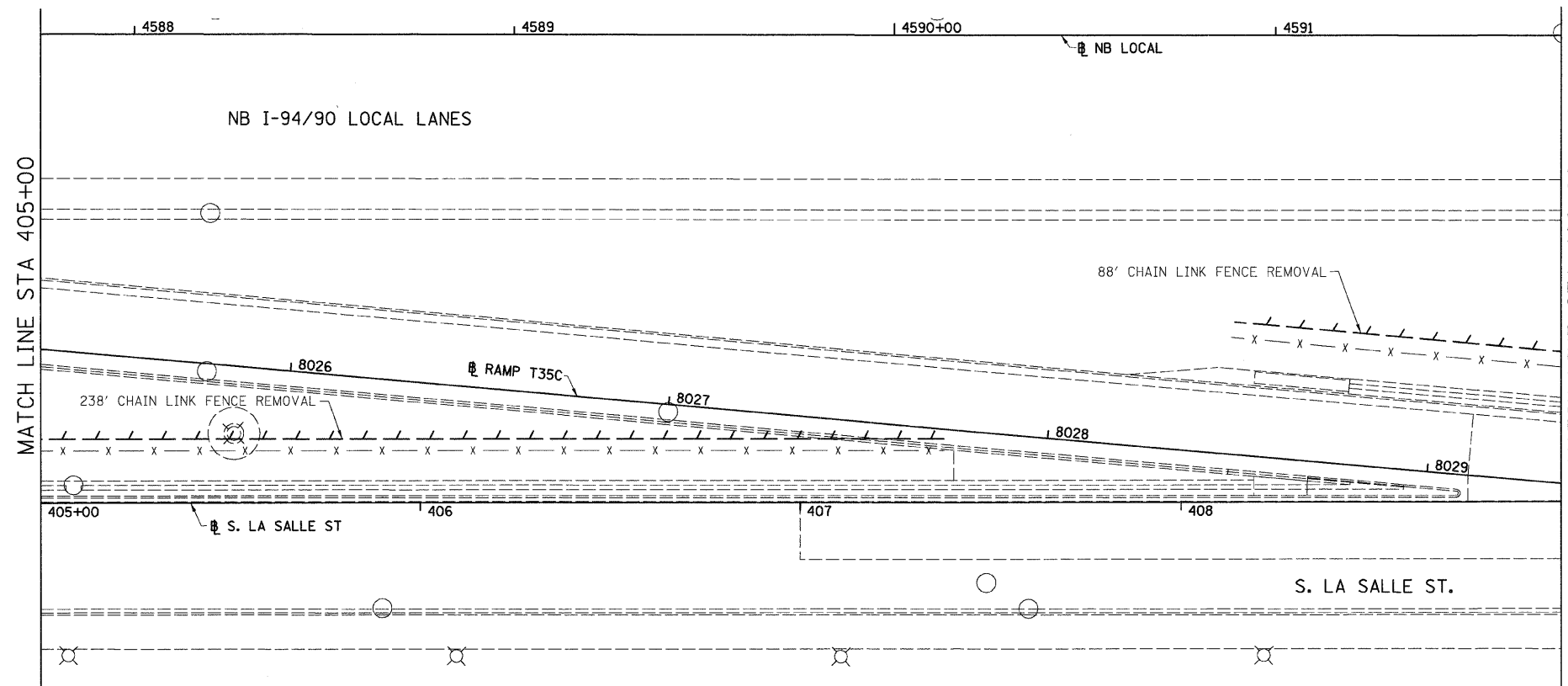
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	23
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

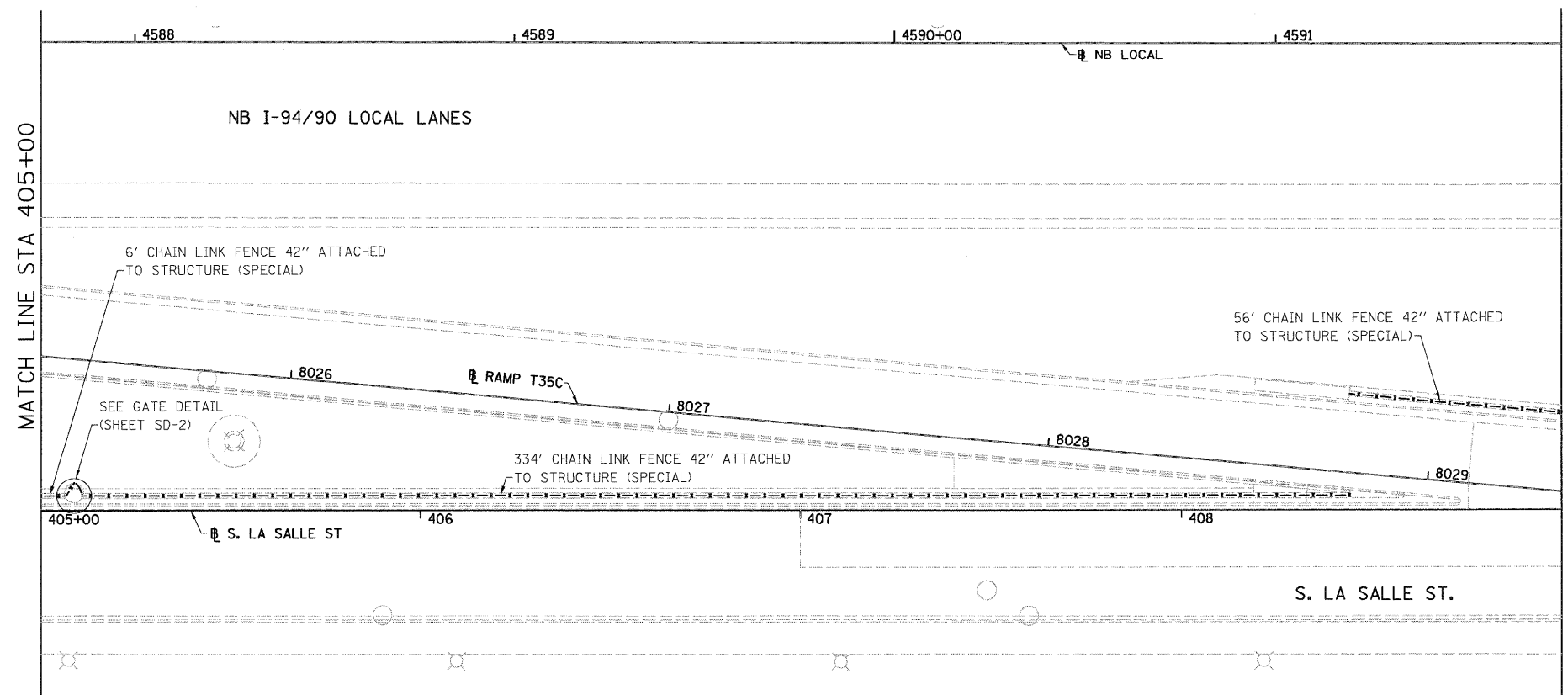


LEGEND:

--- LINEAR REMOVALS

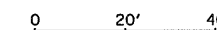


EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-15

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

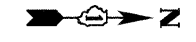
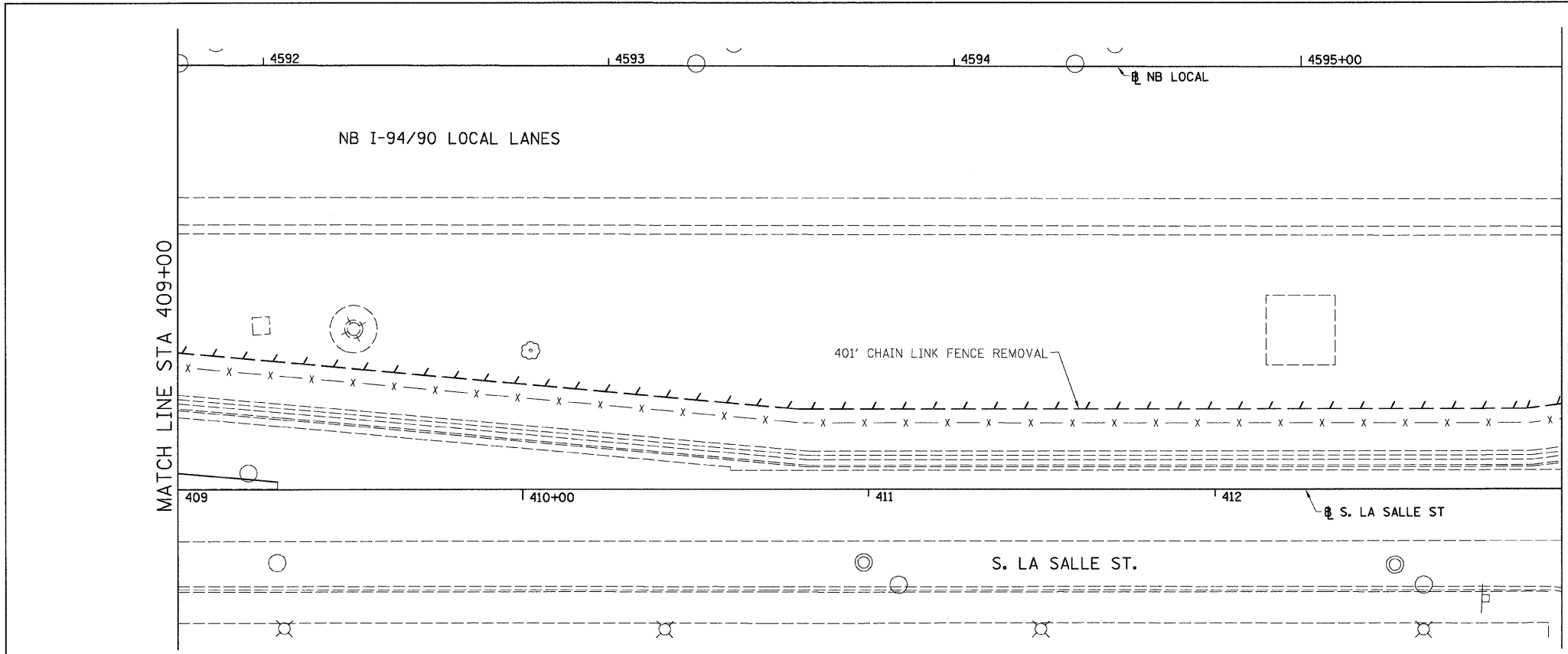
BOWMAN, BARRETT & ASSOCIATES INC.
CONSULTING ENGINEERS
Chicago, Illinois
312.228.0100
www.bbainc.com



10/24/2008 12:33:35 PM

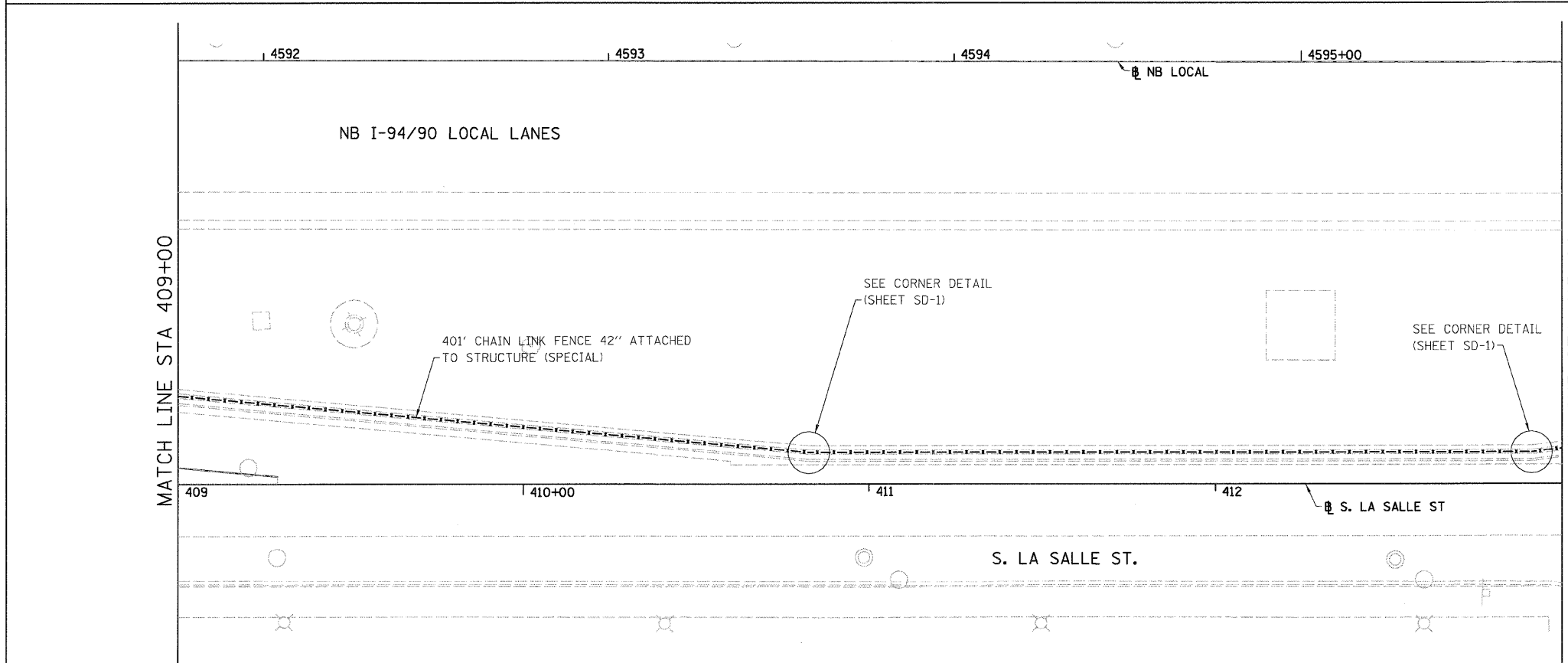
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	24
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

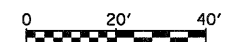


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42\"/>



PL-16

REVISIONS	
NAME	DATE

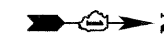
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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I:\Projects\94\90\94-90-0331\94-90-0331-24.dwg
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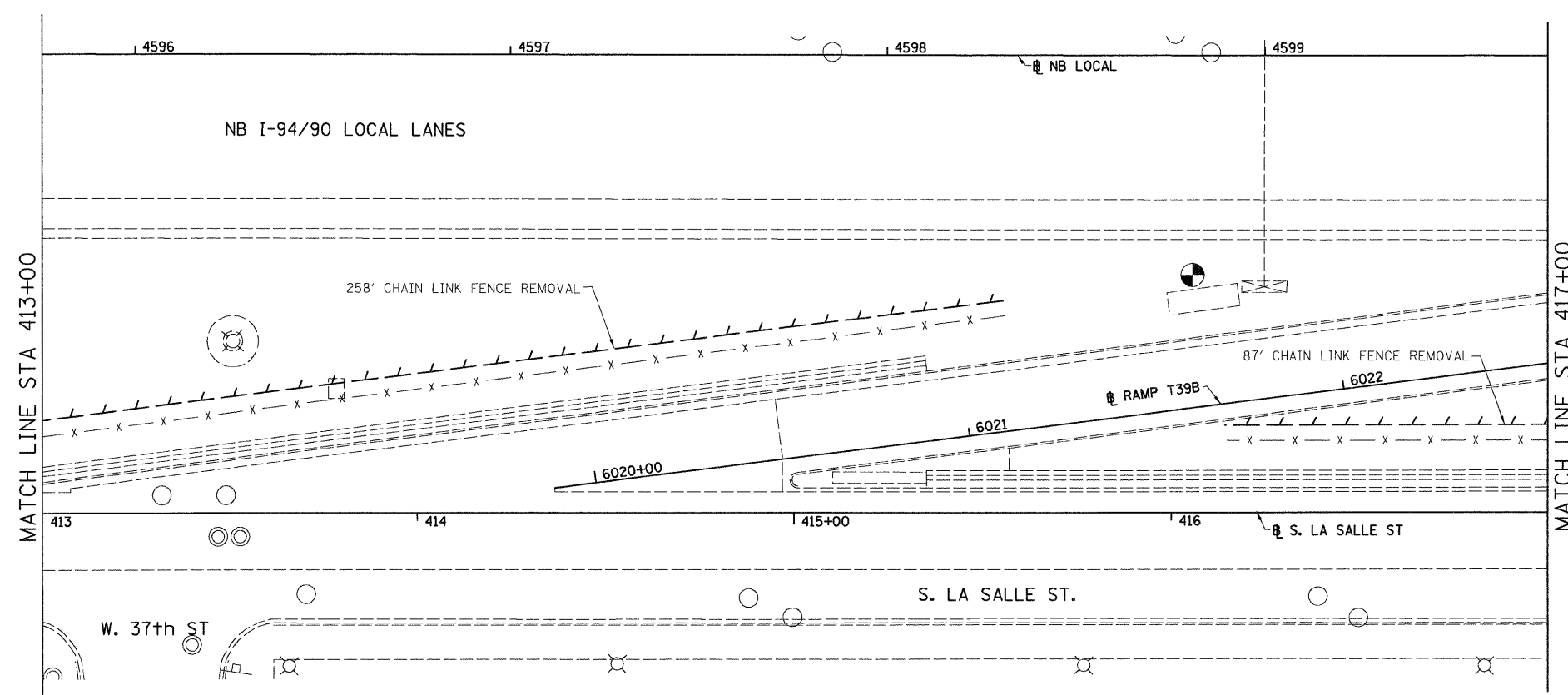
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

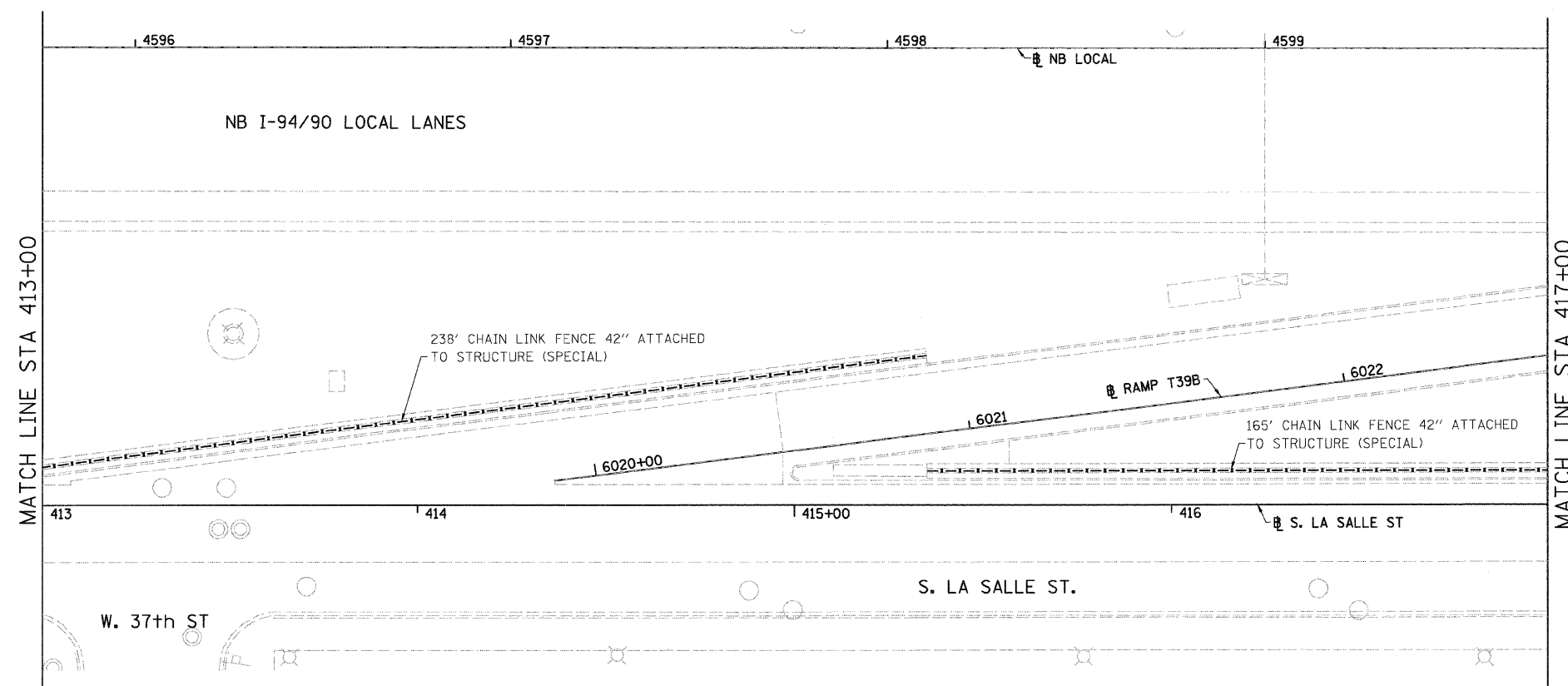


LEGEND:

LINEAR REMOVALS

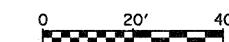


EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-17

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

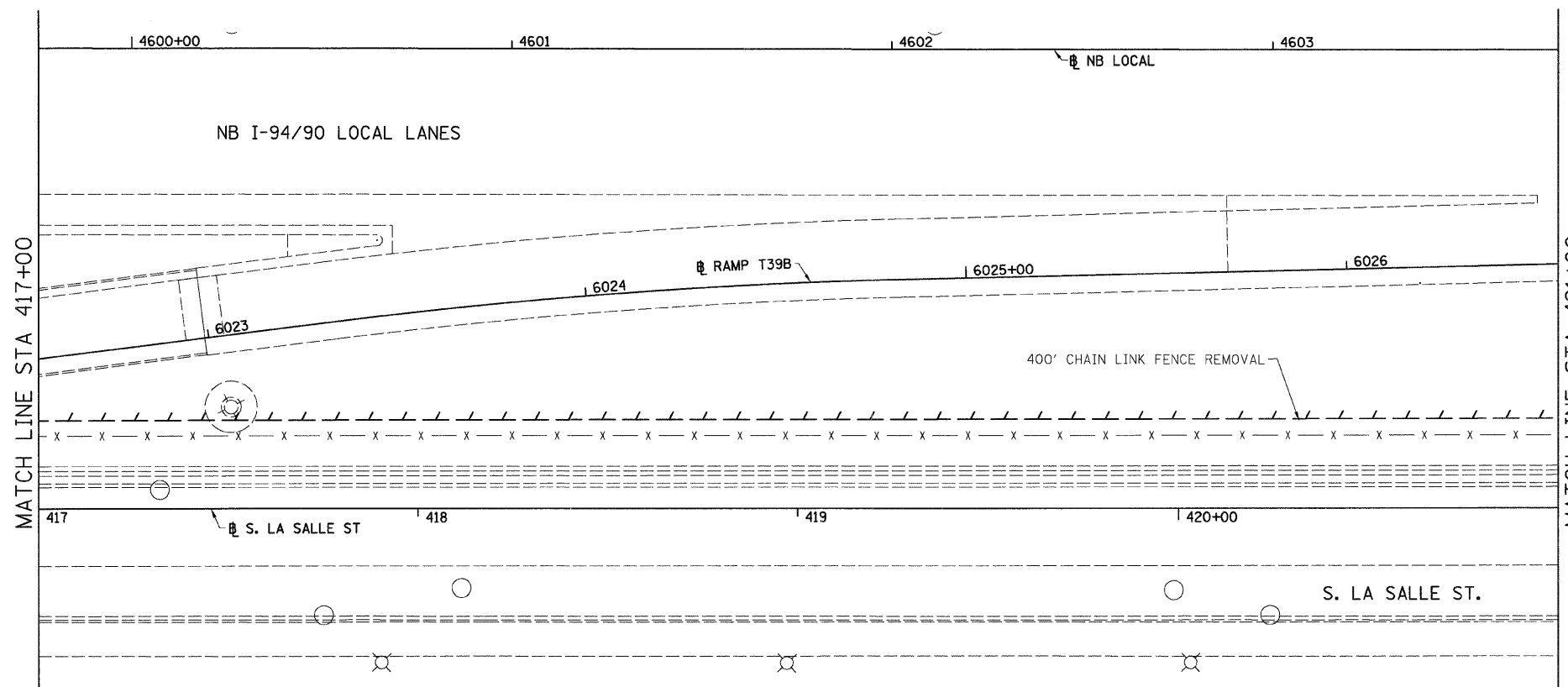
BOWMAN, BARRETT & ASSOCIATES INC
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

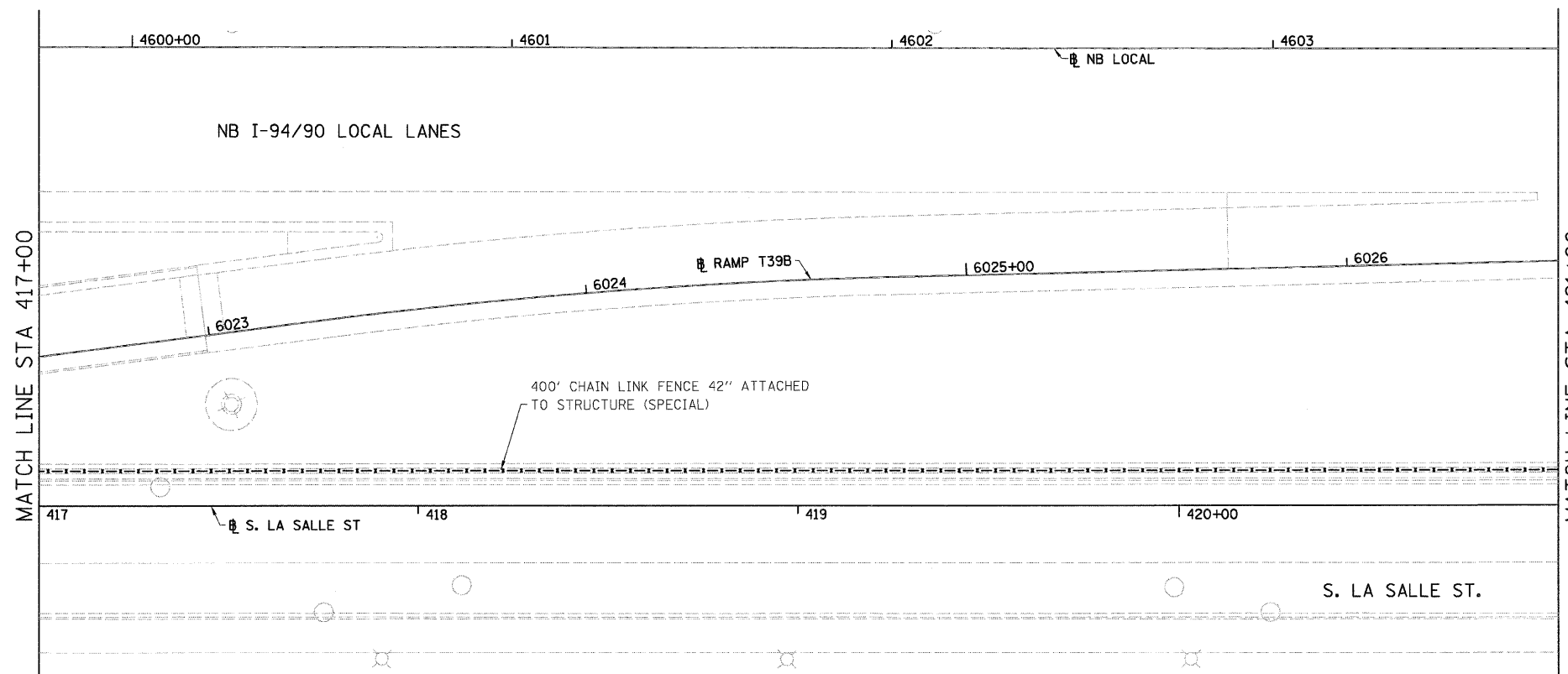
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LEGEND:

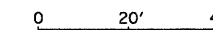
LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-18

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

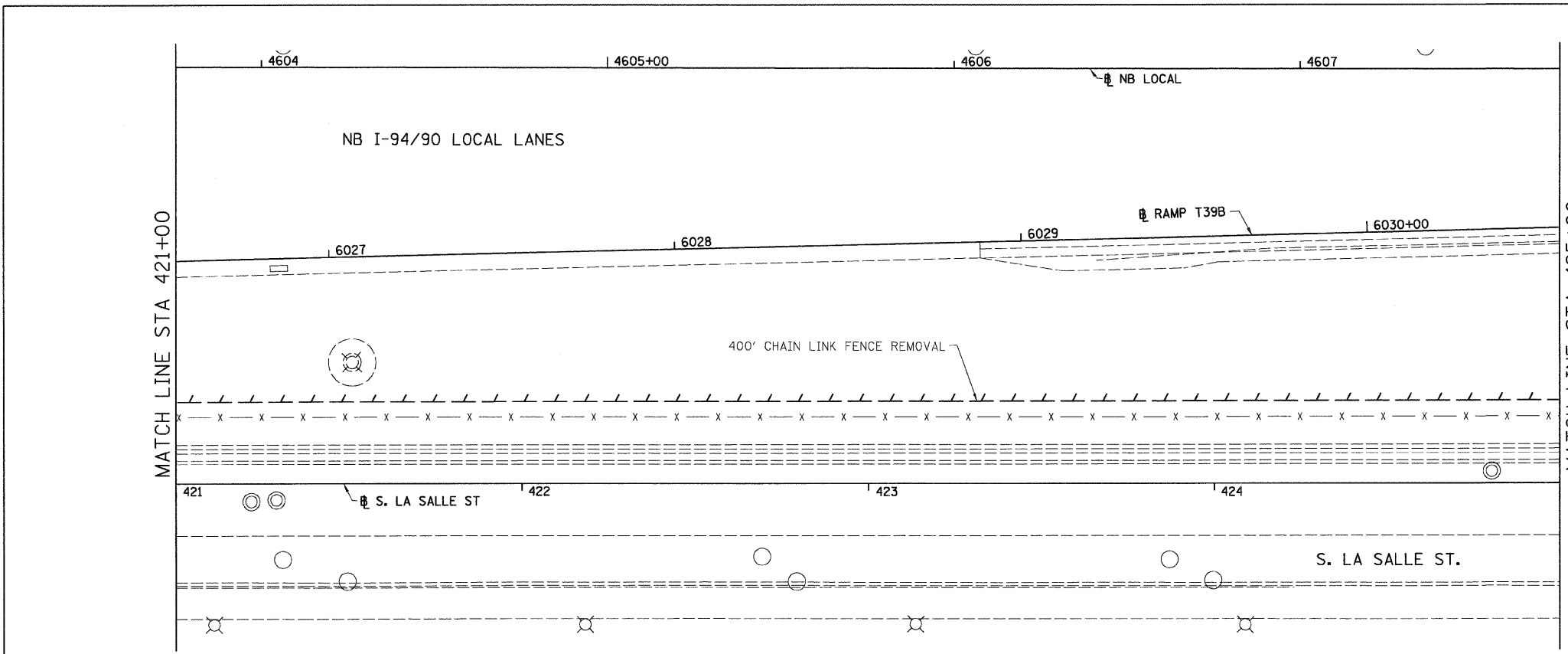
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10/24/2008 12:47 PM

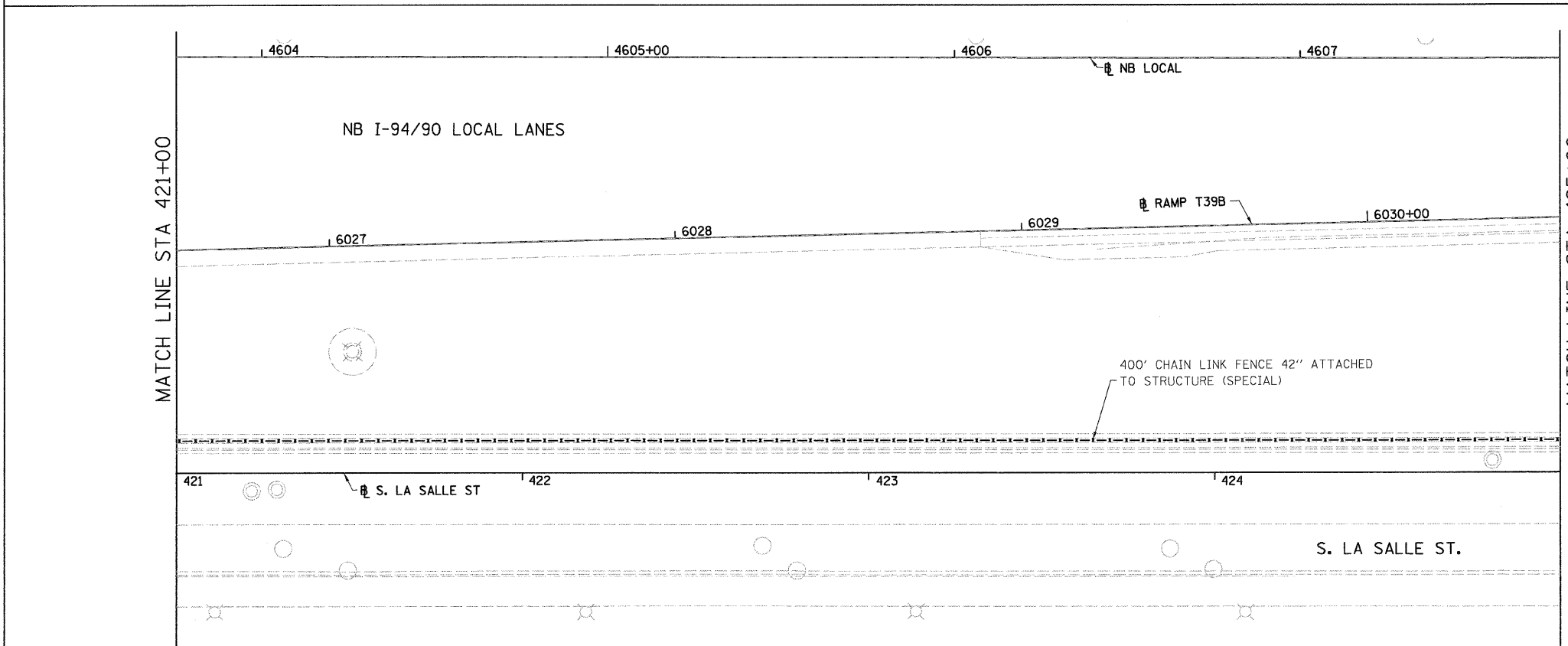
F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	27
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

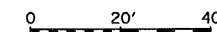


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-19

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

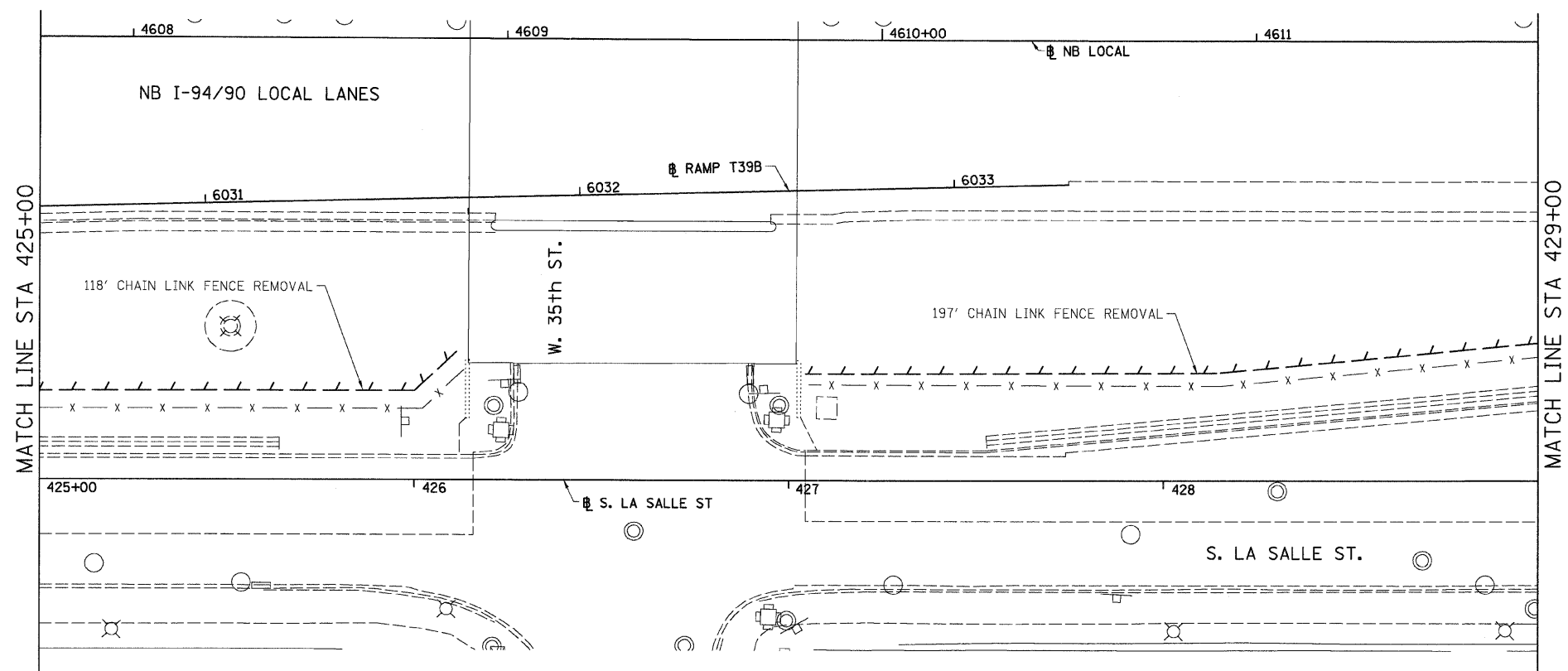
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10/24/2008 12:43:31 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

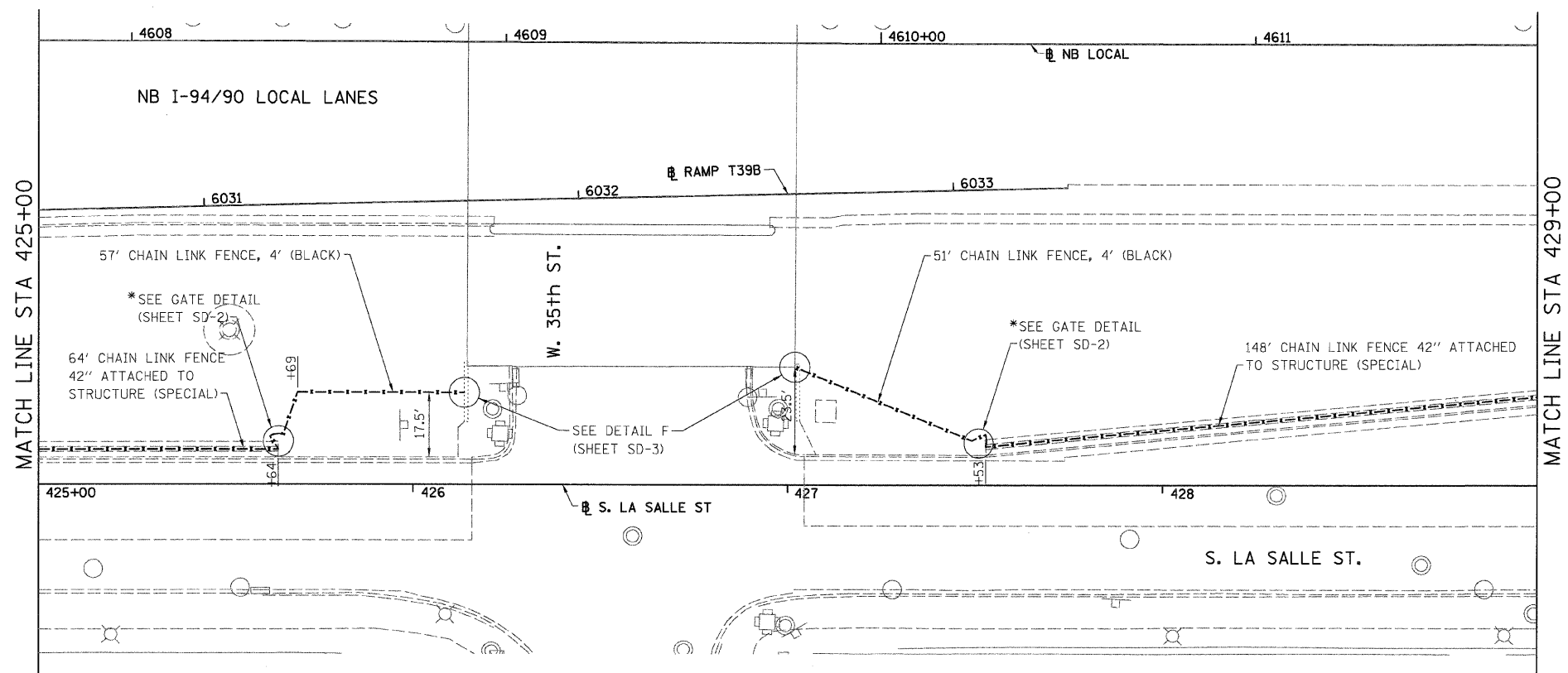
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LEGEND:

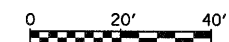
--- LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
PROPOSED IMPROVEMENTS



NOTES:

- SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-20

REVISIONS	
NAME	DATE
REVISED	11/5/08

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
FENCE PLANS

SCALE: 1"=20'
DATE: 10/23/08

DRAWN BY: JDC
CHECKED BY: DDM

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* USE GATE DETAIL ON SHEET SD-2 FOR ATTACHMENT TO KNEE WALL AND STANDARD 664001 FOR GROUND POST INSTALLATION. ALL OTHER DETAILS AND REQUIREMENTS SHOWN ON GATE DETAIL ON SHEET SD-2 SHALL BE PROVIDED.

14860 CAD/CIVIL/SURVEYING SHEETS/60A04.DWG

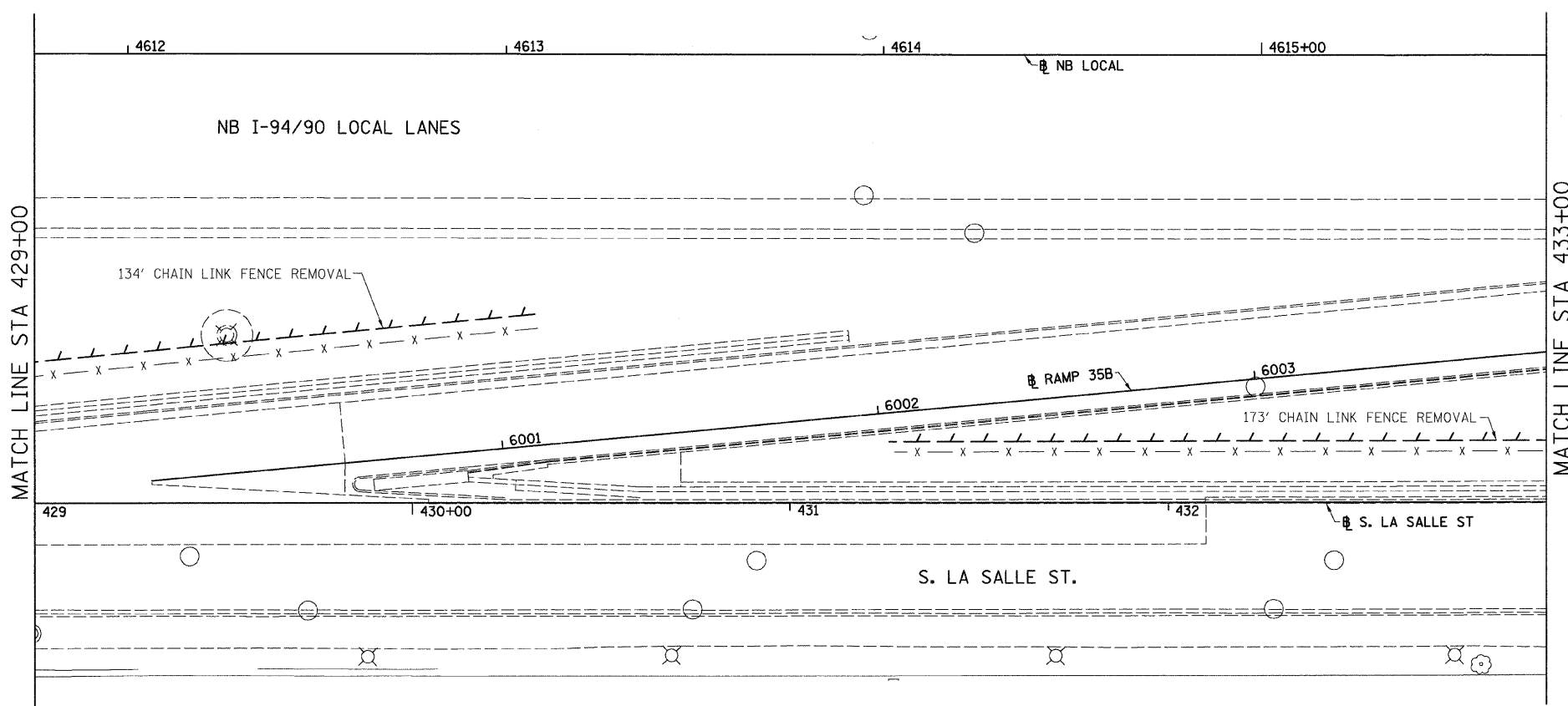
5/20/08 PM 11/5/2008

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	

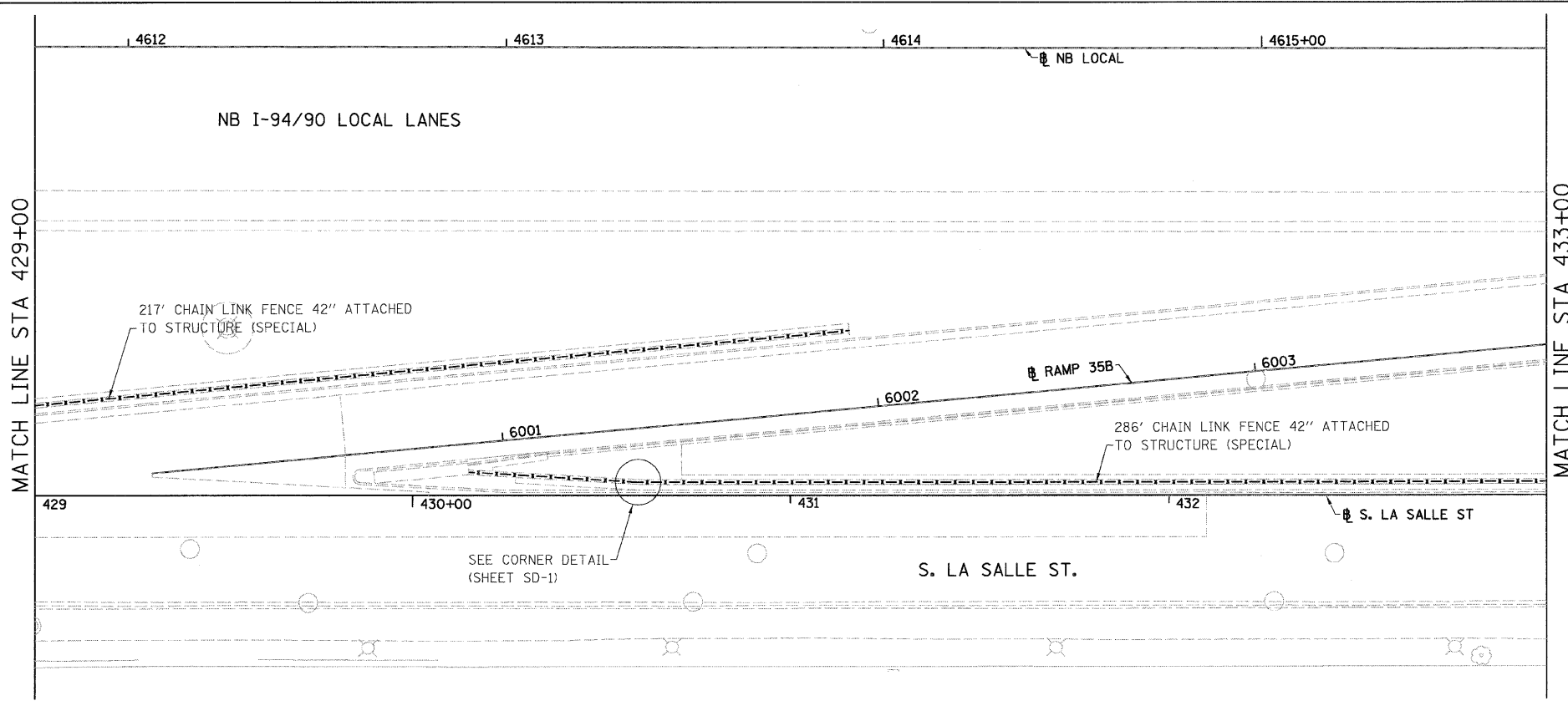
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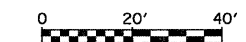
LEGEND:
 LINEAR REMOVALS



EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-21

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)

EXISTING AND PROPOSED
 FENCE PLANS

SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

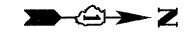
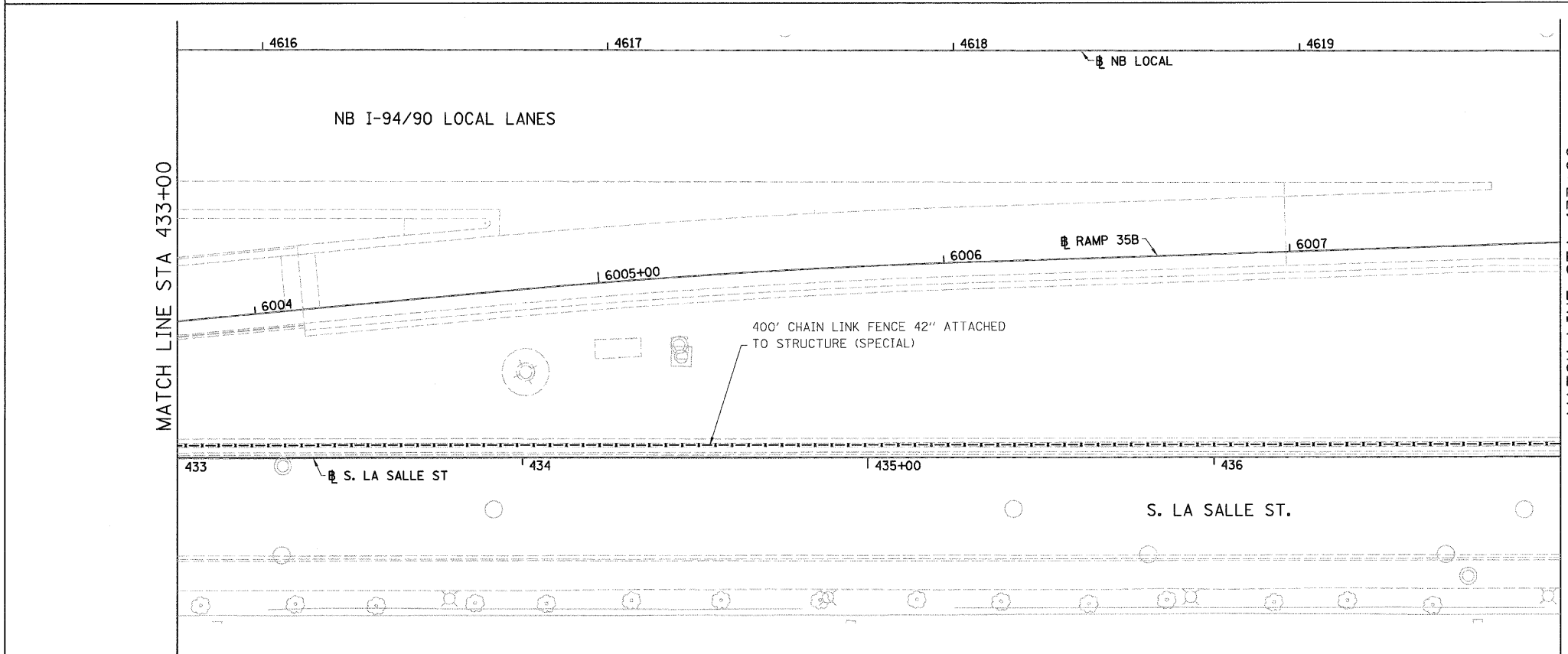
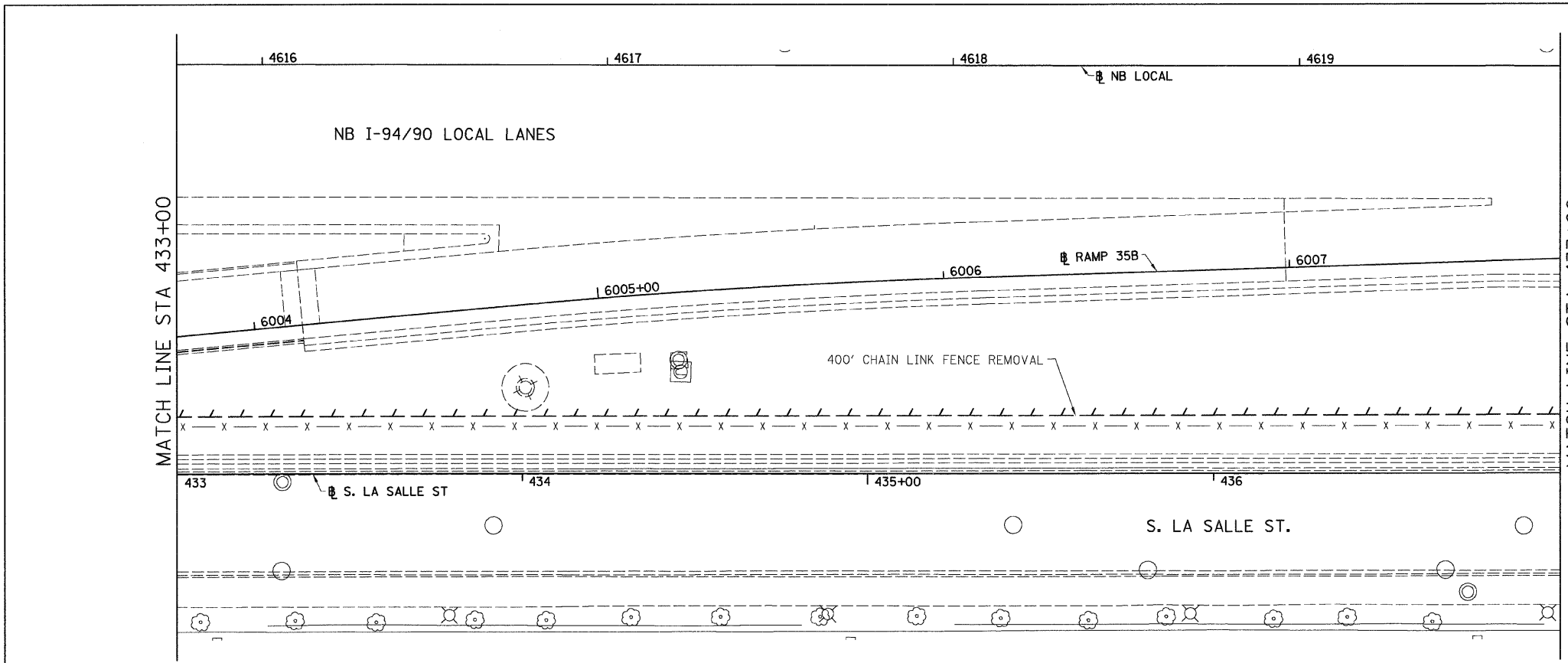
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

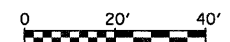


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-22

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
 EXISTING AND PROPOSED
 FENCE PLANS
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

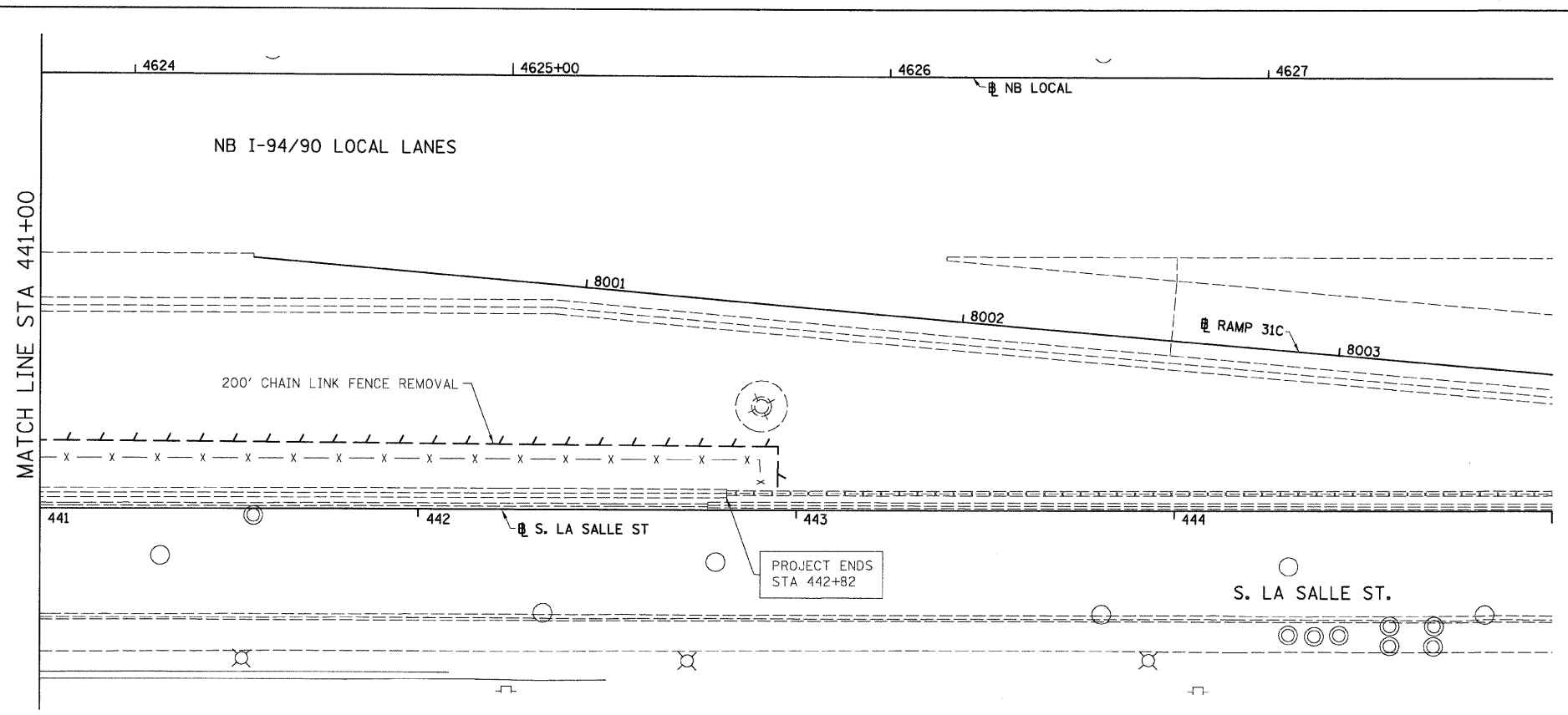
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10/24/2008 1:35:02 PM

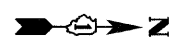
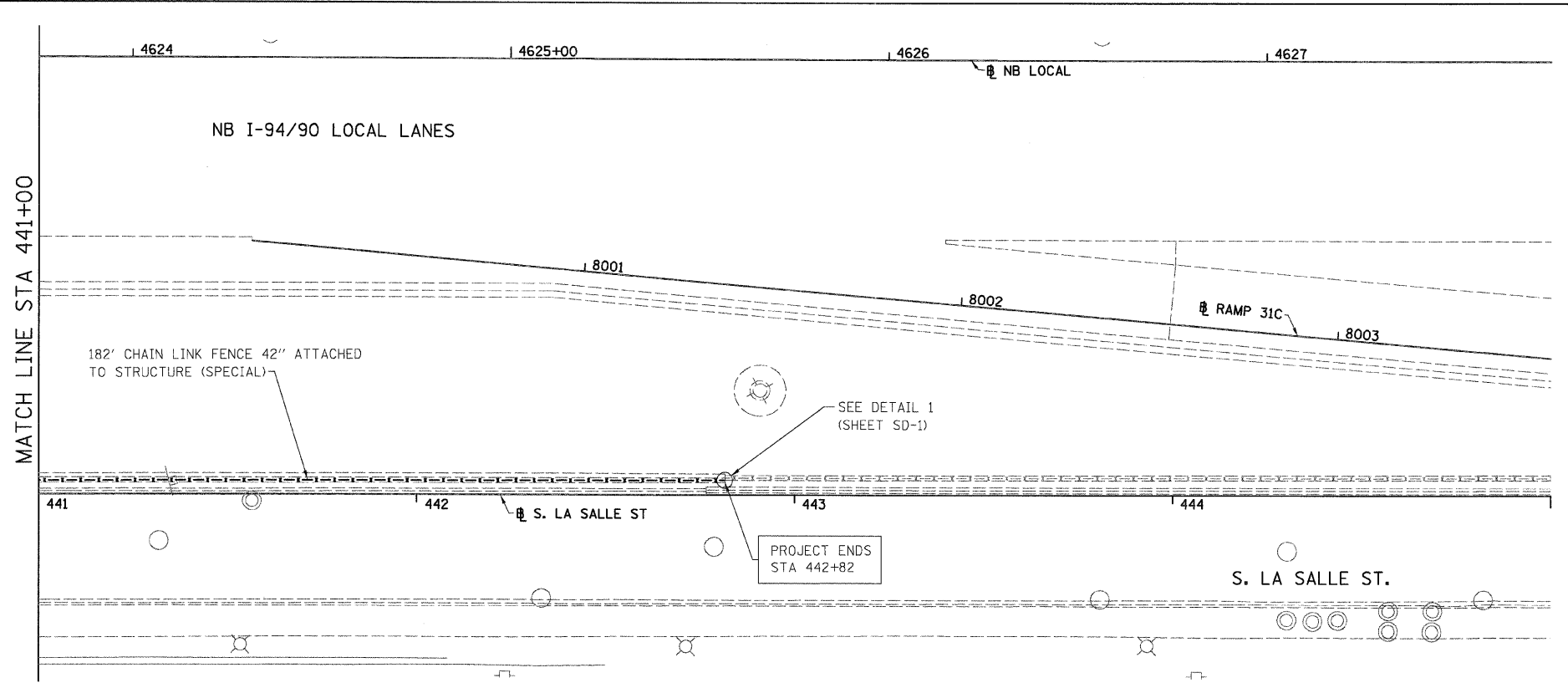
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

60A04

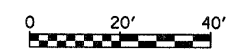


LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



NOTES:
 1. SEE DETAIL FOR CHAIN LINK FENCE, 42" ATTACHED TO STRUCTURE (SPECIAL).



PL-24

REVISIONS	
NAME	DATE
REVISED	11/5/08

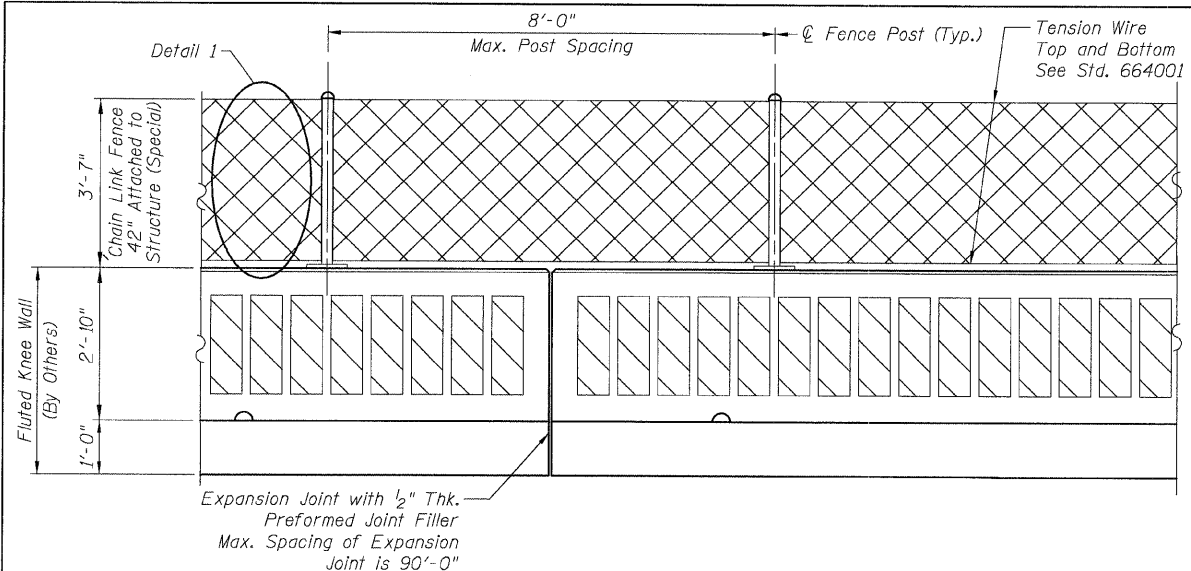
ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND FENCE AND GATES (47TH ST TO 31ST ST)
**EXISTING AND PROPOSED
 FENCE PLANS**
 SCALE: 1"=20'
 DATE: 10/23/08
 DRAWN BY: JDC
 CHECKED BY: DDM

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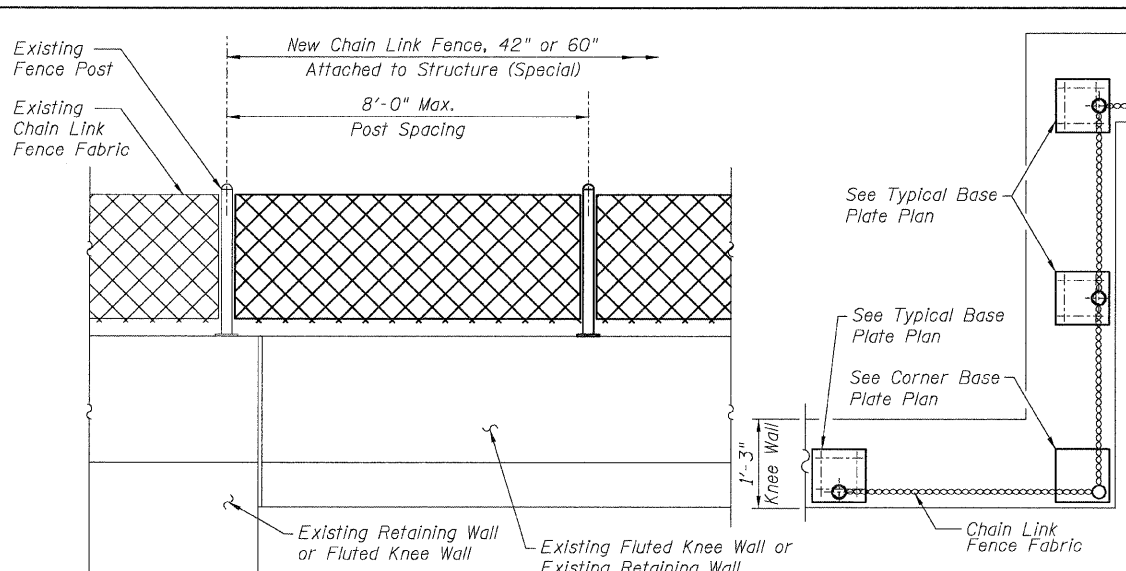


14-660-CAD/CIVIL/SUBSHEET 30/60-30P.DWG 11/25/2008 5:20:30 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

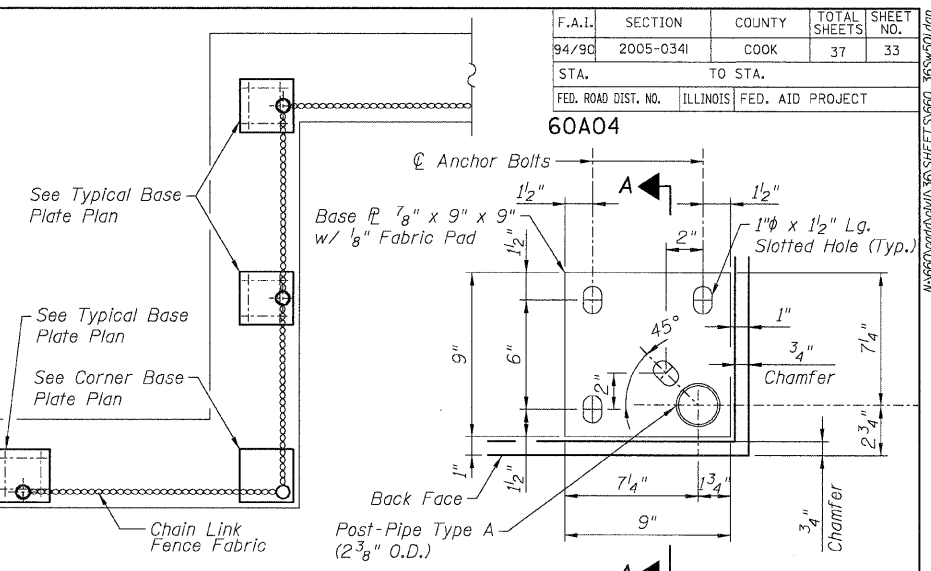


BACK FACE ELEVATION - FLUTED KNEE WALL AND CHAIN LINK FENCE



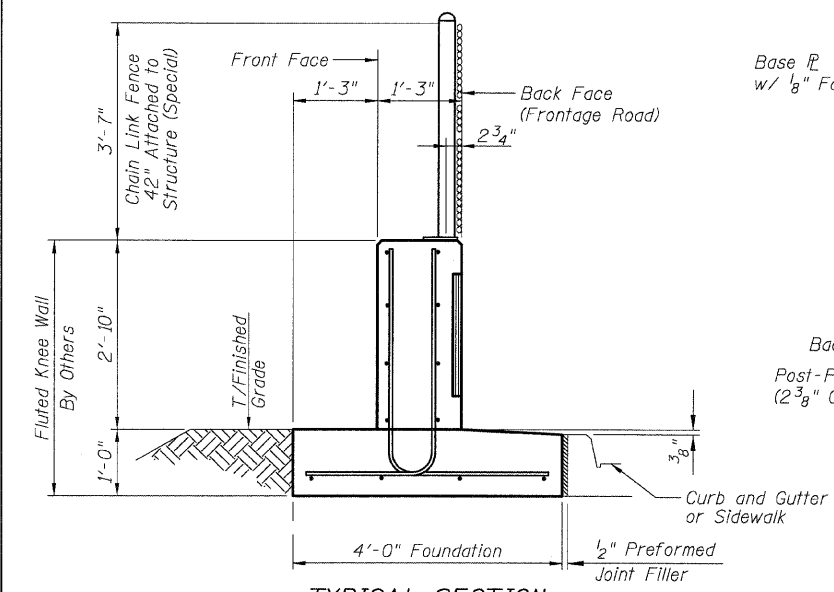
DETAIL 1

Cost to attach fence to exist. post shall be included in the cost of Chain Link Fence, of the type specified.

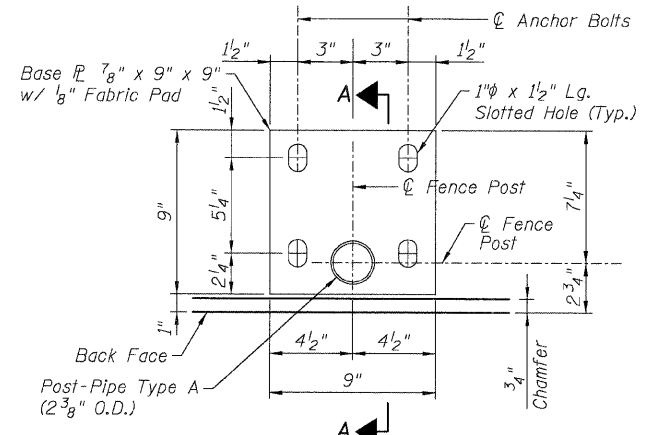


KNEE WALL POSTS AT RIGHT ANGLES

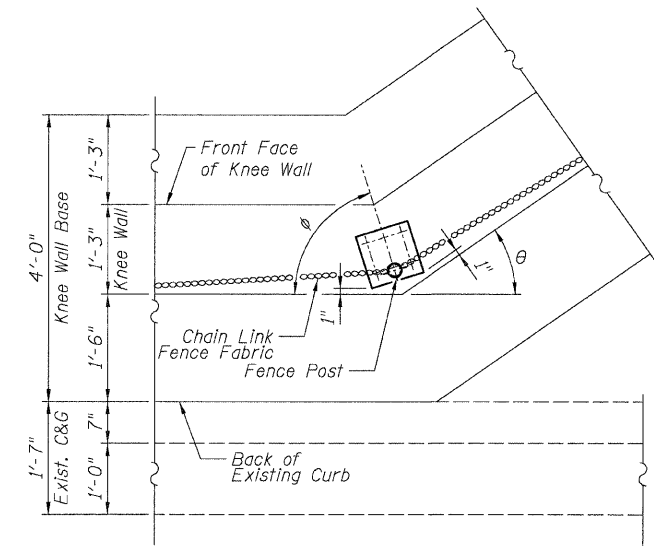
CORNER BASE PLATE PLAN



TYPICAL SECTION FLUTED KNEE WALL & CHAIN LINK FENCE

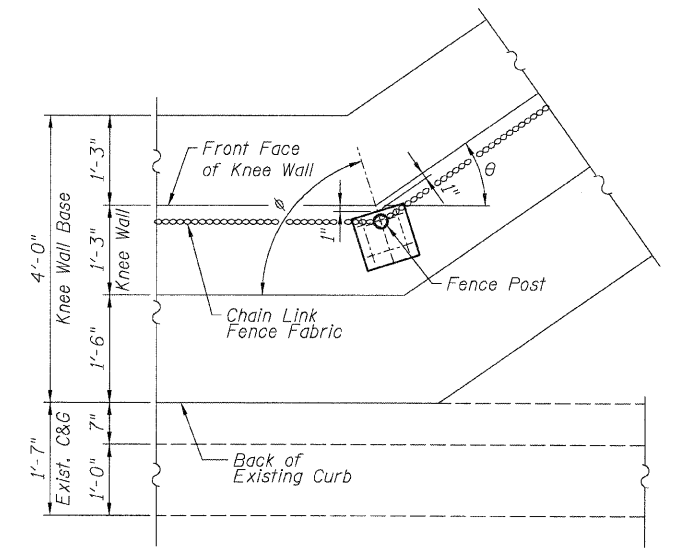


TYPICAL BASE PLATE PLAN



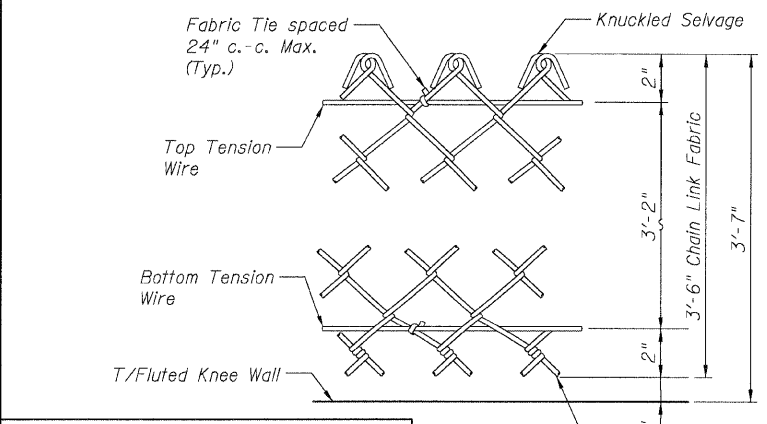
KNEE WALL TYPICAL CORNER POST

θ = Field Verify (Valid for $0^\circ < \theta < 90^\circ$)
 $\phi = 90^\circ - (\theta/2)$

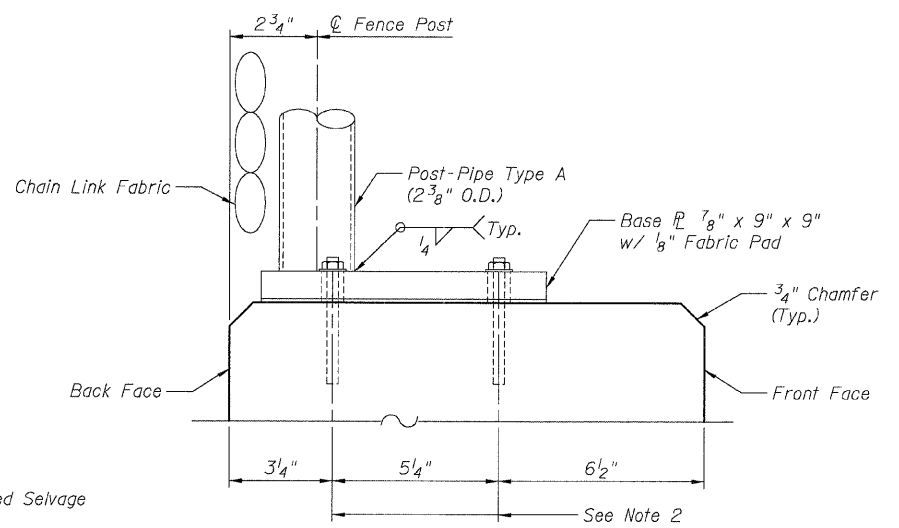


KNEE WALL INTERIOR CORNER POST

θ = Field Verify (Valid for $0^\circ < \theta < 90^\circ$)
 $\phi = 90^\circ - (\theta/2)$



DETAIL 1



SECTION A-A

NOTES:

1. Back Face is face adjacent to Frontage Rd. and Front Face is face adjacent to Expressway.
2. Contractor shall drill and grout 1/2" dia. anchor rods in accordance with Art. 584 of the Std. Specs. Provide hex nut and 1/4" dia. washer. Anchor rods, nuts and washers shall be galvanized in accordance with Art. 1006.09 of the Std. Specs. Embedment shall be according to manufacturer's specifications using HVA adhesive anchor rod system as manufactured by Hilti, Inc. or approved equal. Weld nuts to anchor rods after installation. Cost included with Chain Link Fence, 42" Attached to Structure (Special).
3. For additional Chain Link Fence Details see Std. 664001.
4. Posts shall be located no closer than 9" to an expansion joint. Unless otherwise noted, the center of post shall be 1'-0" from end of knee wall at locations where Chain Link Fence, 42" Attached to Structure (Special) terminates.

LEGEND:

- Chain Link Fabric
- Rustication Finish
- E.F. = Each Face

REVISIONS	
NAME	DATE
REVISED	11/5/08

SHEET SD-1

ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NB FENCE AND GATES FROM 47TH PLACE TO 31ST ST

**CHAIN LINK FENCE, 42"
ATTACHED TO STRUCTURE (SPECIAL)**

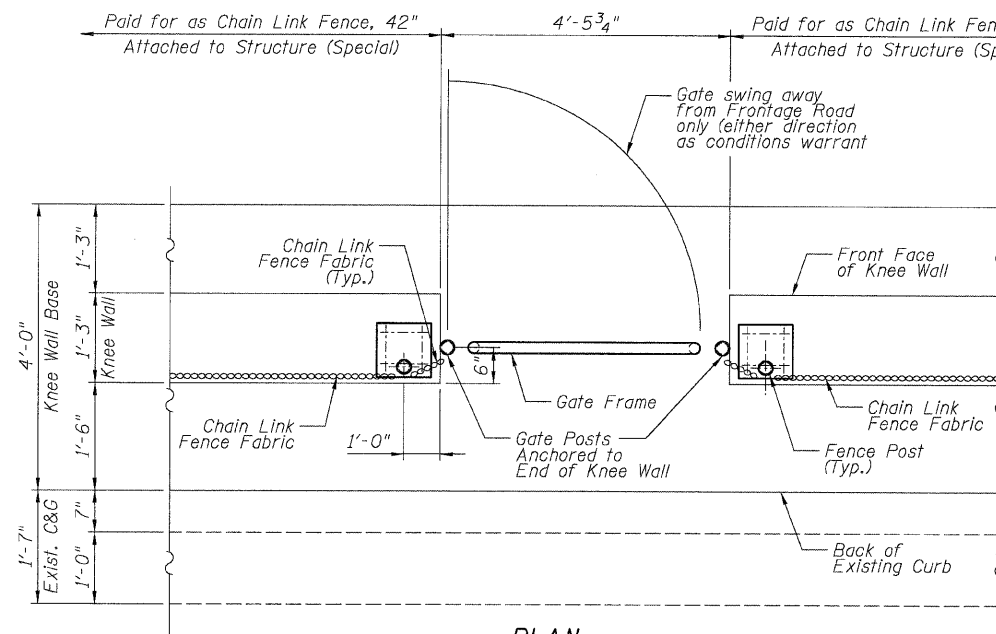
SCALE: NTS
DATE: 10/23/08

DRAWN BY: TL
CHECKED BY: BLU

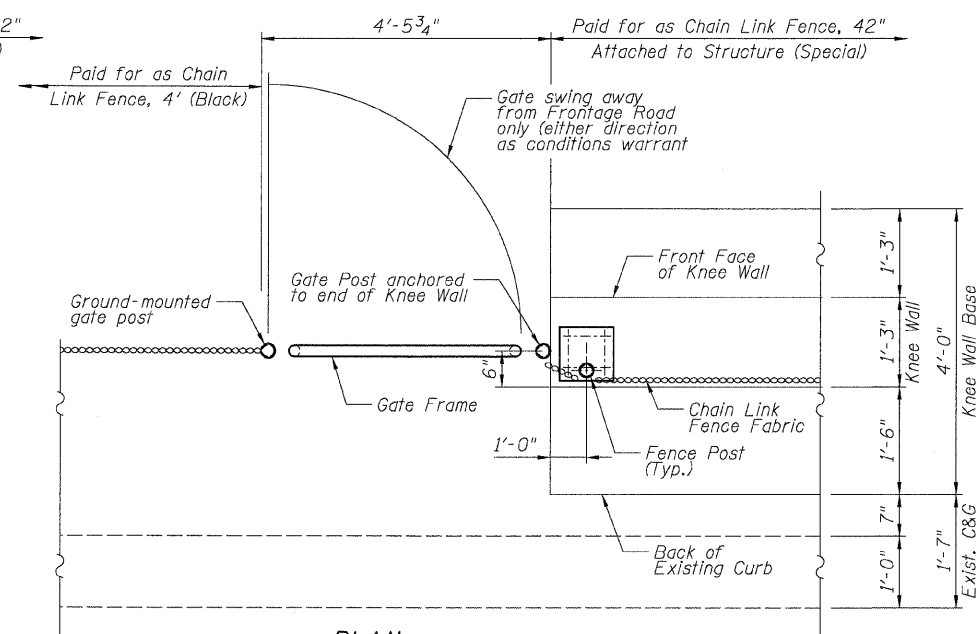
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F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	34
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

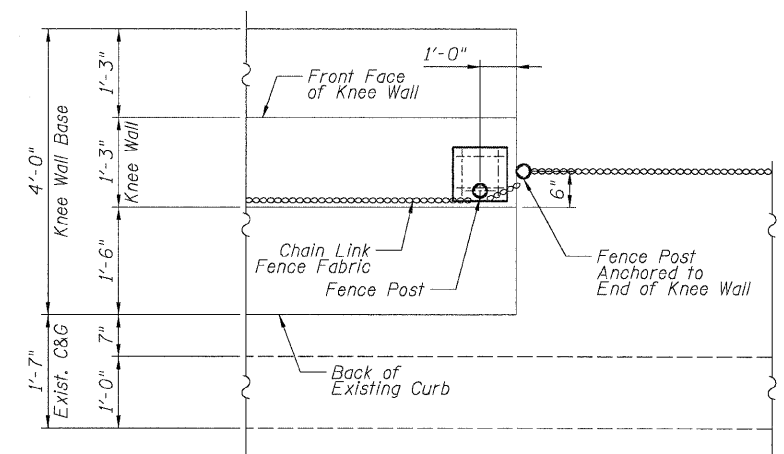
60A04



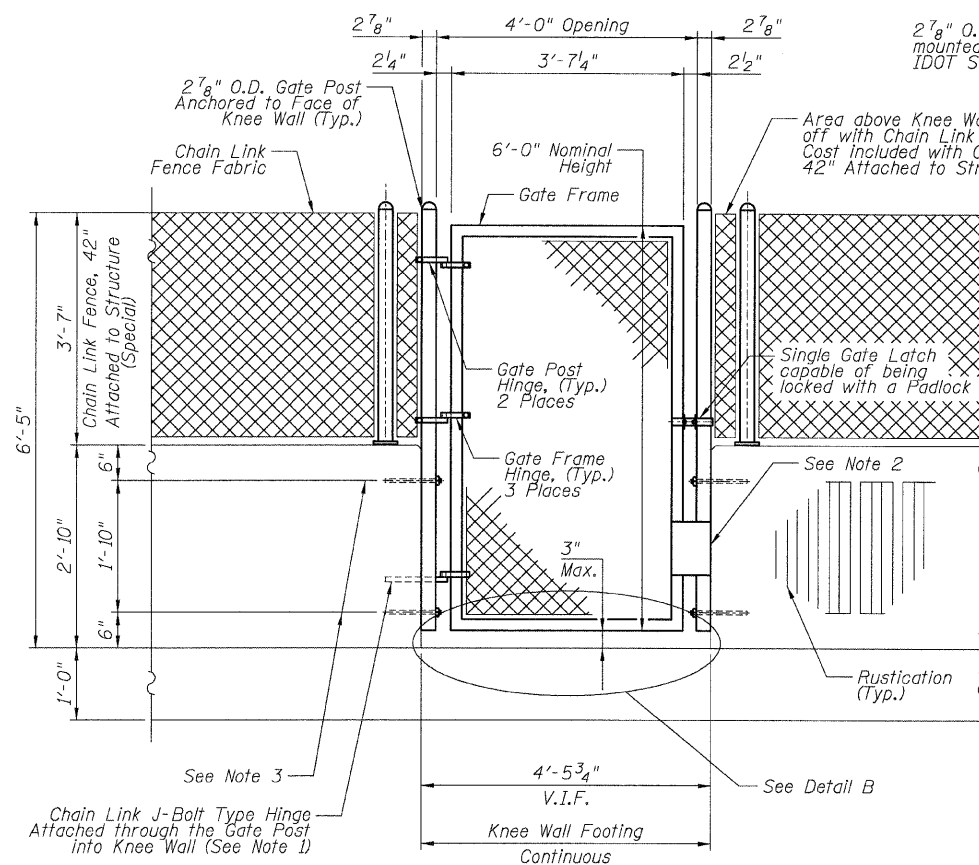
PLAN



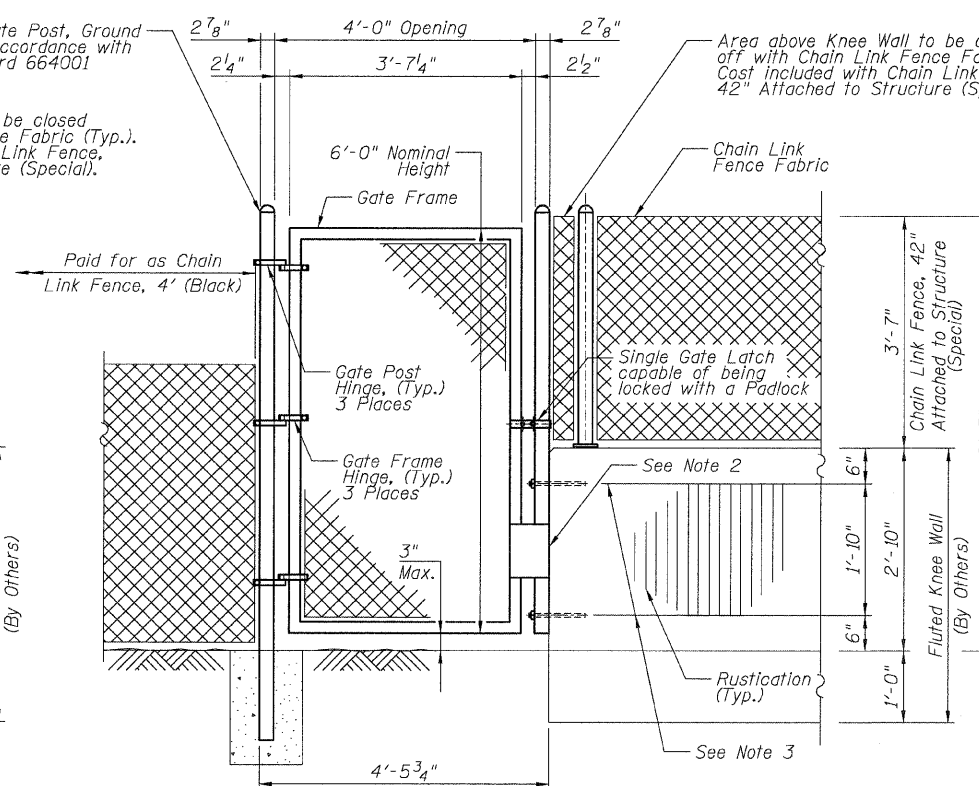
PLAN



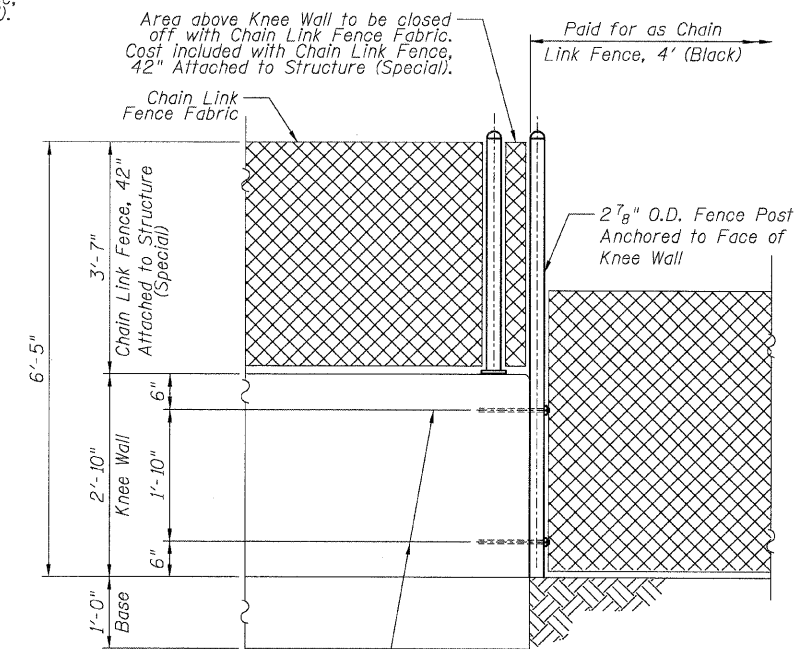
PLAN



6'x4' CHAIN LINK GATE AT KNEE WALL GAP



6'x4' CHAIN LINK GATE AT END OF KNEE WALL



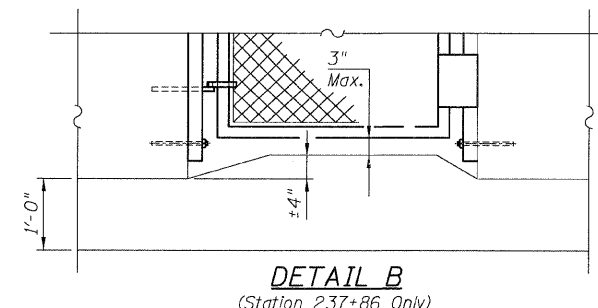
DETAIL A

NOTES:

1. Drill and grout Chain Link J-Bolt Type Hinge in accordance with Art. 584 of the Std. Specs. J-Bolts shall be galvanized in accordance with Art. 1006.09 of the Std. Specs. Cost included with Chain Link Gates, 6'x4' Single.
2. Provide mechanism to prevent gate from opening toward frontage road. In addition, provide gate keepers to hold gate in open position. Cost included with Chain Link Gates, 6'x4' Single.

3. Contractor shall drill and grout 5/8" dia. anchor rods in accordance with Art. 584 of the Std. Specs. Provide hex nut and 1/4" dia. washer. Anchor rods, nuts and washers shall be galvanized in accordance with Art. 1006.09 of the Std. Specs. Embedment shall be according to manufacturer's specifications using HVA adhesive anchor rod system as manufactured by Hilti, Inc. or approved equal. Weld nuts to anchor rods after installation. Cost included with Chain Link Gates, 6'x4' Single.
4. V.I.F. = Contractor to Verify in Field before ordering materials.

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DETAIL B
(Station 237+86 Only)

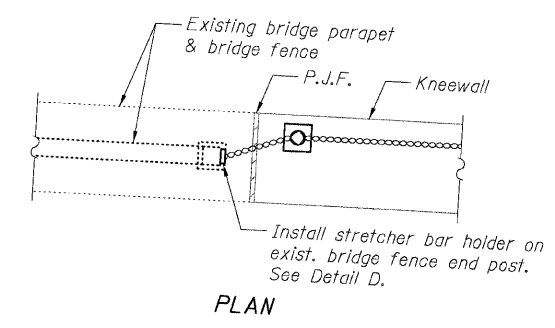
REVISIONS	
NAME	DATE
REVISED	11/5/08

SHEET SD-2
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NB FENCE AND GATES FROM 47TH PLACE TO 31ST ST
CHAIN LINK FENCE & GATE DETAILS 1
SCALE: NTS
DATE: 10/23/08
DRAWN BY: TL
CHECKED BY: BLU

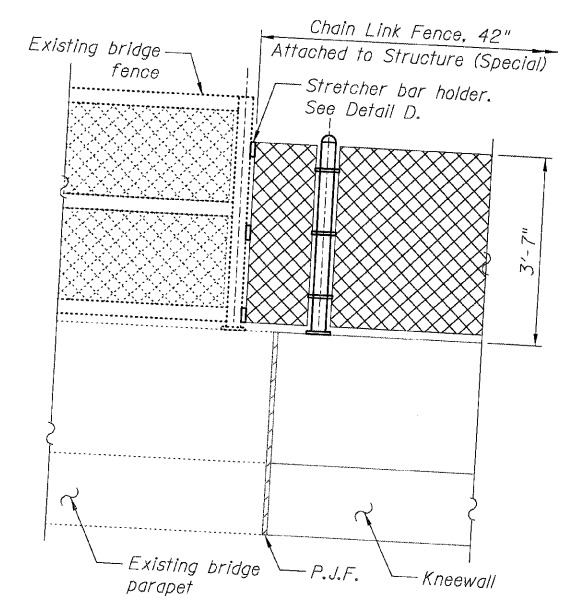
11/5/2008 5:20:03 PM

F.A.I.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
94/90	2005-0331	COOK	37	34A
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			

60A04

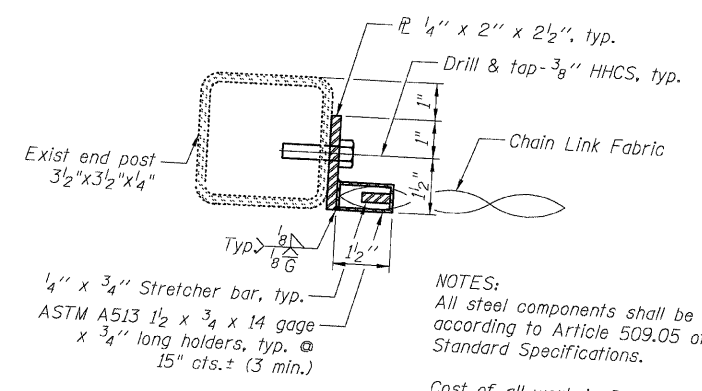


PLAN



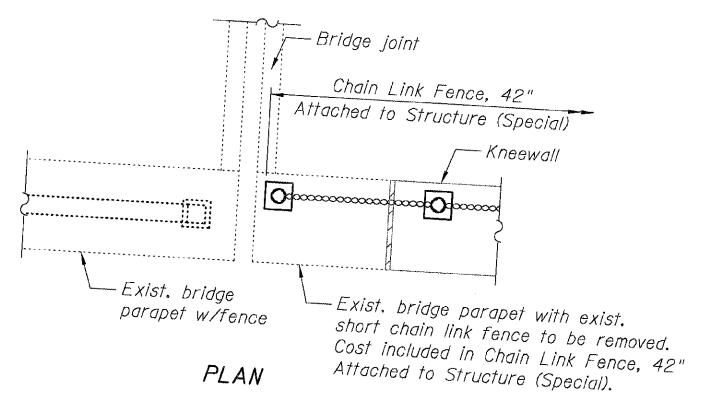
ELEVATION

DETAIL C

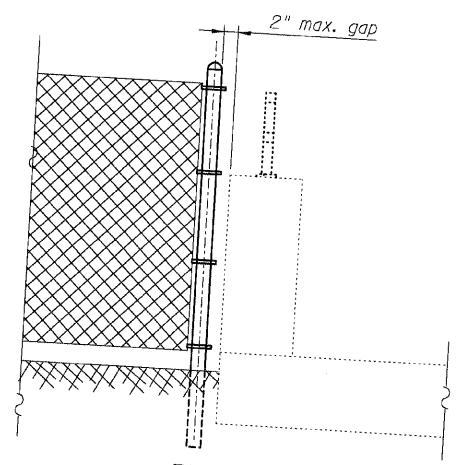


DETAIL D

NOTES:
 All steel components shall be galvanized according to Article 509.05 of the Standard Specifications.
 Cost of all work in Detail D shall be included in Chain Link Fence, 42\"/>

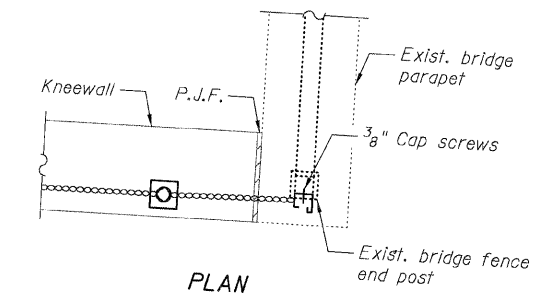


PLAN
 DETAIL E

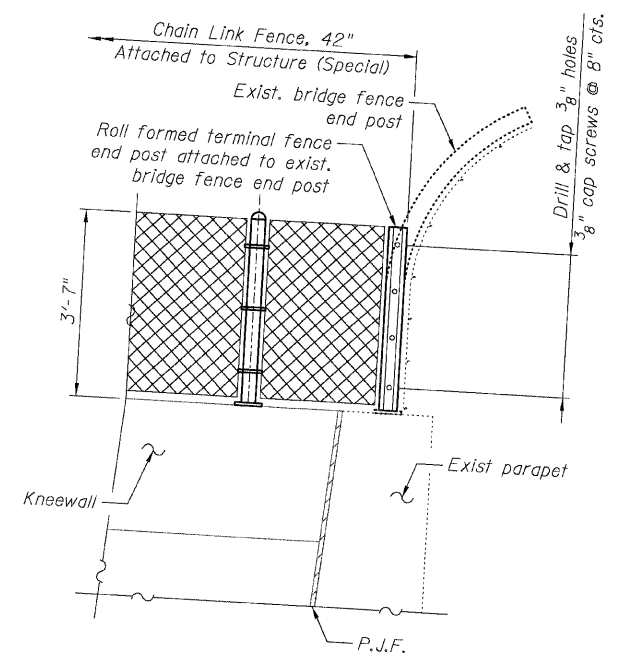


ELEVATION

DETAIL F



PLAN



ELEVATION

DETAIL G

NOTE:
 If closure R has been installed on existing bridge end post, remove screws on bottom 3'-7\"/>

BOWMAN, BARRETT & ASSOCIATES INC.
 CONSULTING ENGINEERS
 Chicago, Illinois
 312.228.0100
 www.bbandainc.com

REVISIONS	
NAME	DATE
NEW SHEET	11/5/08

SHEET SD-3
 ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NB FENCE AND GATES FROM 47TH PLACE TO 31ST ST
 CHAIN LINK FENCE & GATE DETAILS 2

SCALE: NTS
 DATE: 10/23/08

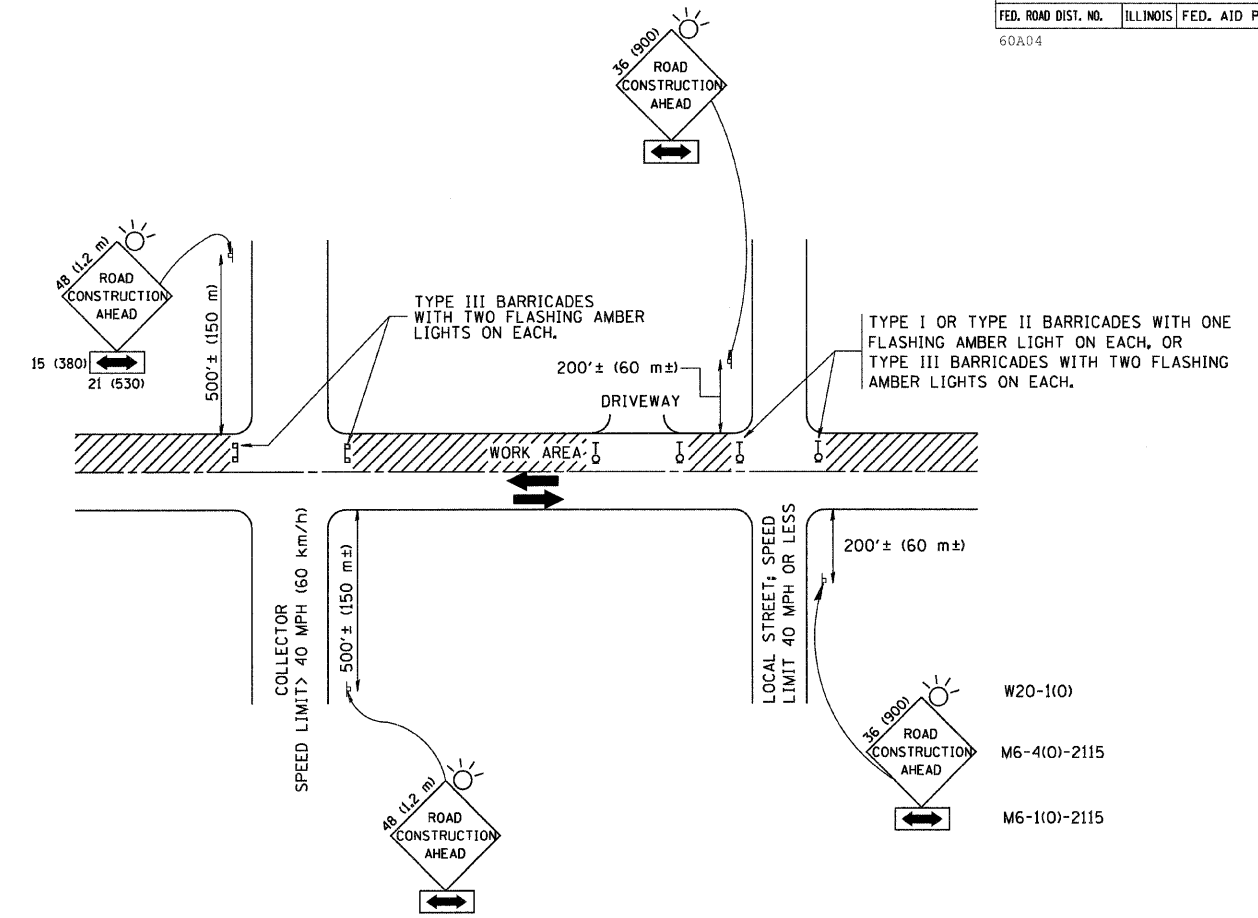
DRAWN BY: LAM

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	2005-0331		35	37

STA.	TO STA.

FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT

60A04



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

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 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:
 - 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.
 - 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.
 - SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
 - 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
 TC-10

PLOT DATE = 3/6/2007
 FILE NAME = K:\projects\060809
 PLOT SCALE = 50,000 / 1 IN.
 USER NAME = baurndi

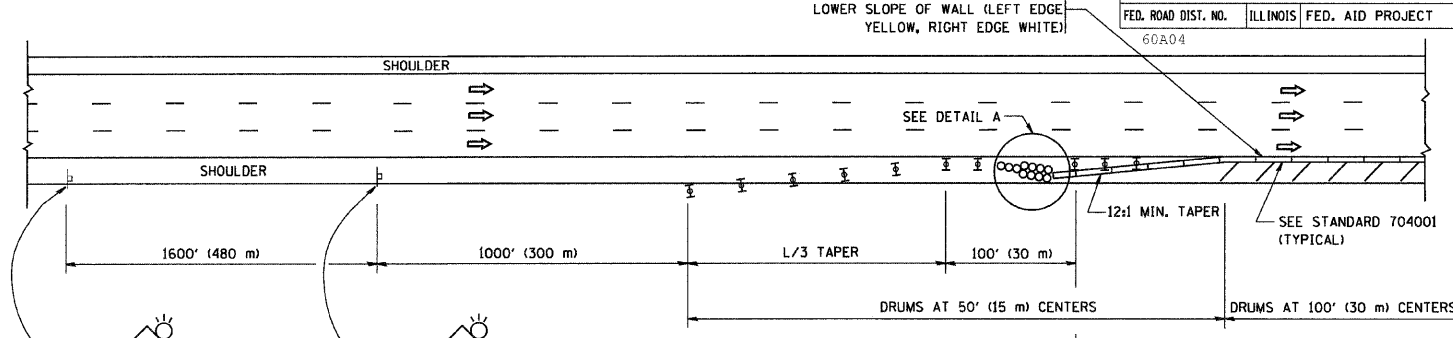
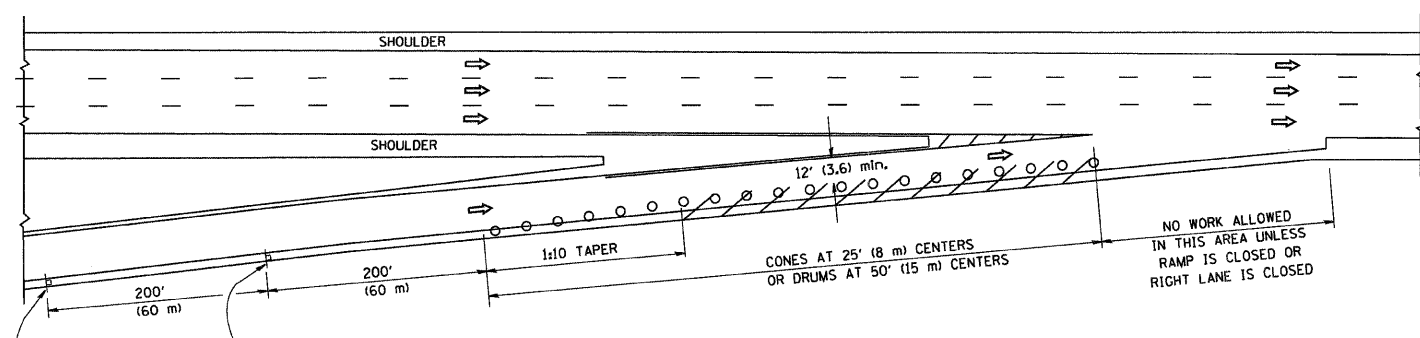
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2005-0331			37	36

PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

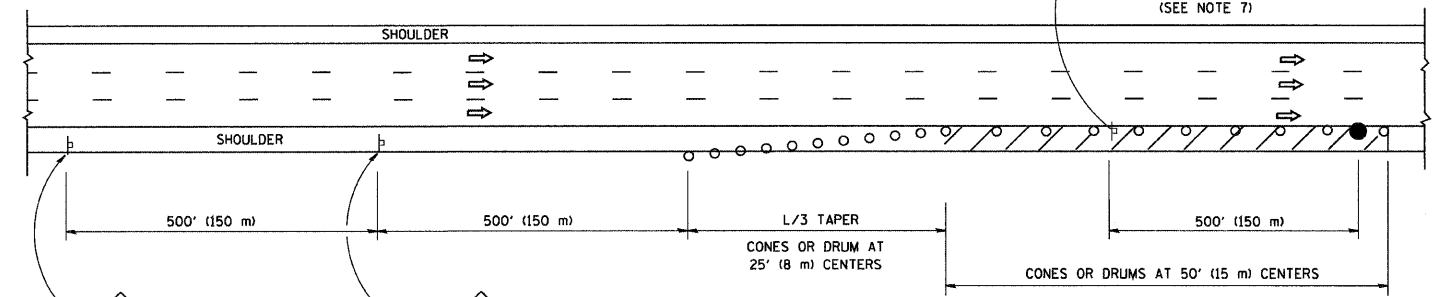
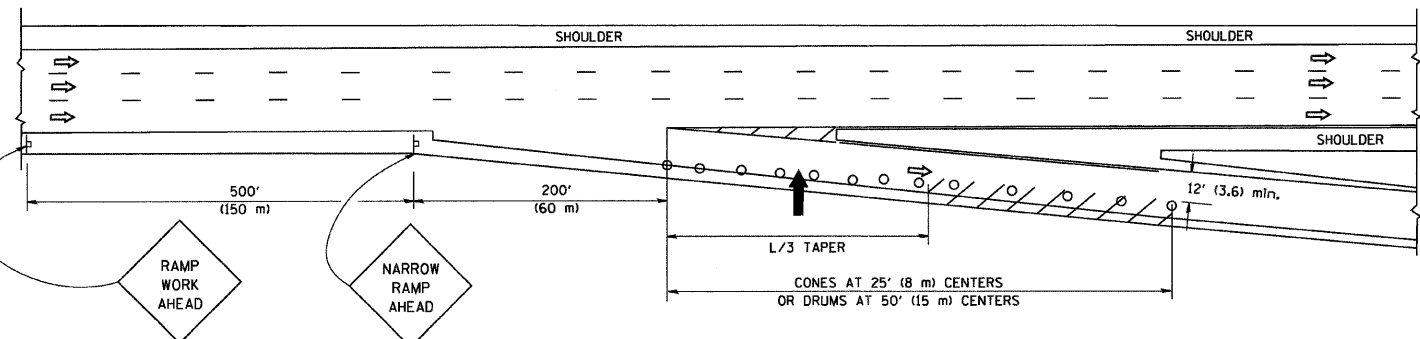
REFLECTIVE 6 (150) EDGE LINE ON LOWER SLOPE OF WALL (LEFT EDGE YELLOW, RIGHT EDGE WHITE)

STA.	TO STA.
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT
60A04	



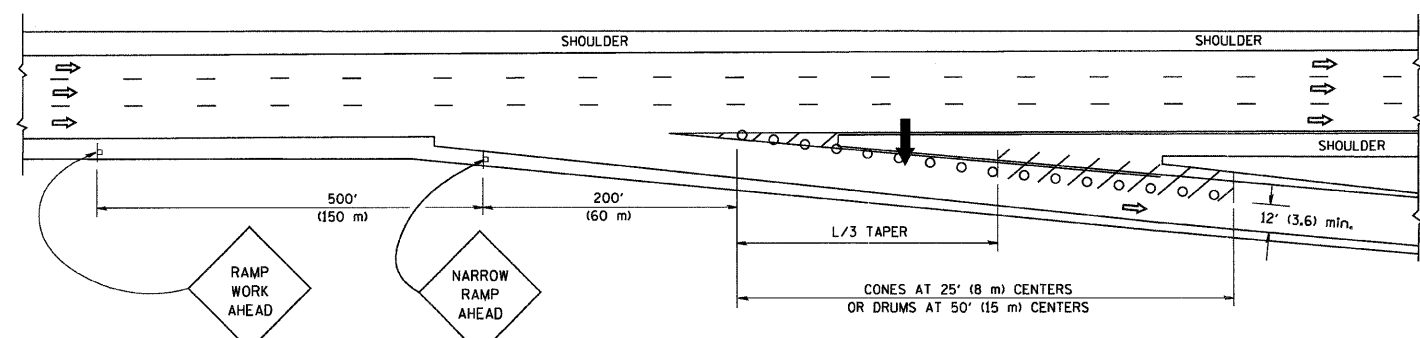
TYPICAL ENTRANCE RAMP

PERMANENT SHOULDER CLOSURE

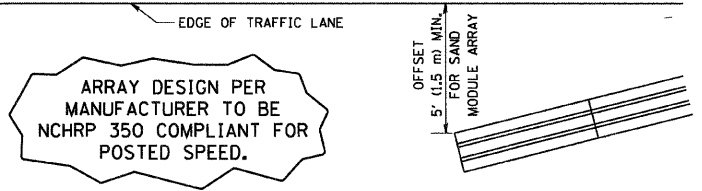


TYPICAL EXIT RAMP

DAYTIME SHOULDER CLOSURE



TYPICAL EXIT RAMP



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

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) OR GREATER:	METRIC ENGLISH
	$L=0.65(W)(S)$ $L=(W)(S)$
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.

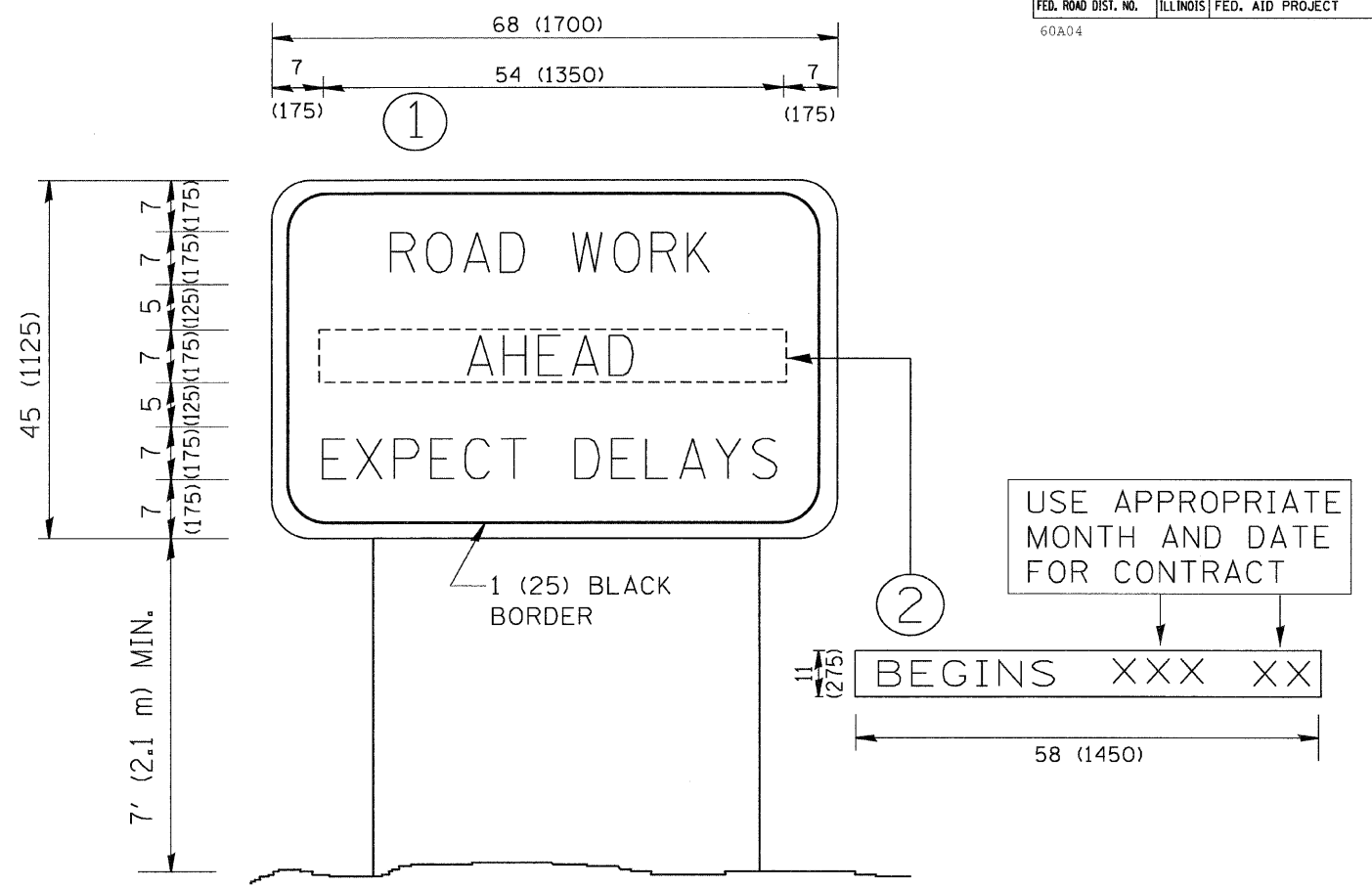
5. THE IMPACT ATTENUATOR, TEMPORARY IS NOT REQUIRED WHEN THE TEMPORARY CONCRETE BARRIER WALL IS PROTECTED BY OR IS TIED INTO THE EXISTING GUARDRAIL. IF OFFSET IS LESS THAN 5 FEET USE "TRAFFIC BARRIER TERMINAL, TYPE III, TEMPORARY" DEVICE TO MEET NCHRP350 FOR POSTED SPEED.
6. AUTHORIZATION FROM THE DISTRICT'S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

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

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

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

DESIGNED BY: DWS
DRAWN BY:
CHECKED BY:
SCALE: NONE
TC-17



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