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|-------------|---------|--------|--------------|-----------|
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 90/94 | * | COOK | 37 | 1 |
| 62992 | | | 12 | 39 |

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 (2323.6-2P&2324.6-1P)I**

**NORTHBOUND KNEE WALLS
(PERSHING RD TO 35TH ST)**

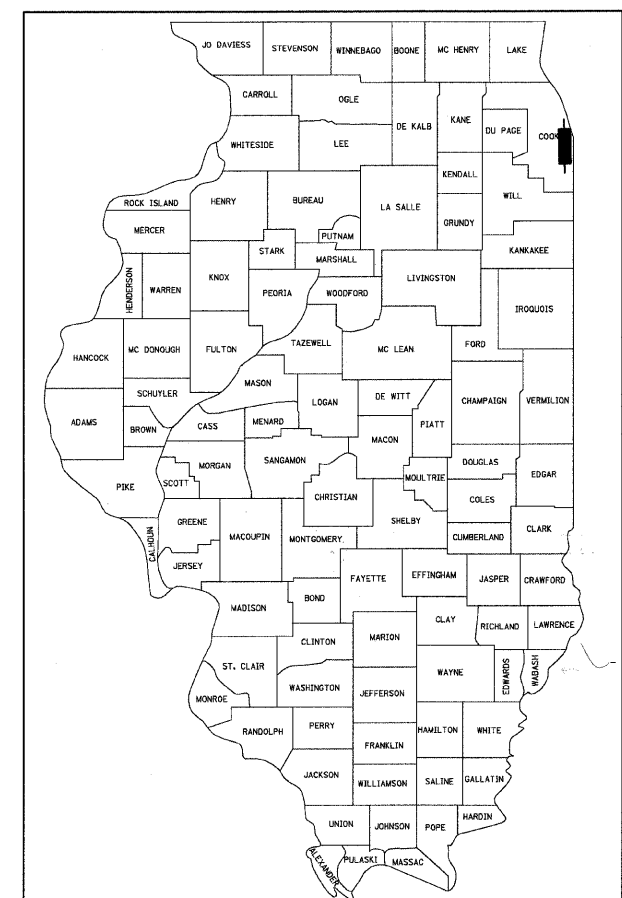
**COOK COUNTY
C-91-250-05**

DESIGN NUMBER
D-91-417-01

SIGNATURE *[Signature]*
DATE Feb. 7, 2008
EXPIRES Nov. 30, 2009

SIGNATURE *[Signature]*
DATE Feb. 7, 2008
EXPIRES Nov. 30, 2009

SIGNATURE *[Signature]*
DATE Feb. 7, 2008
EXPIRES Nov. 30, 2009



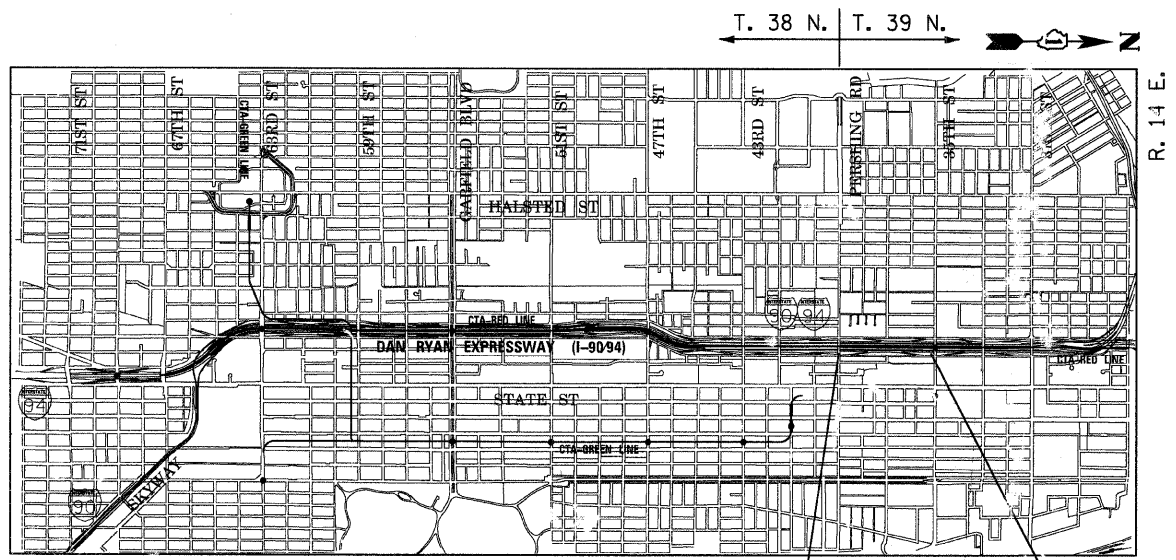
LOCATION OF SECTION INDICATED THIS: - [Symbol] -

PROJECT LOCATED IN CITY OF CHICAGO

DESIGN DESIGNATION

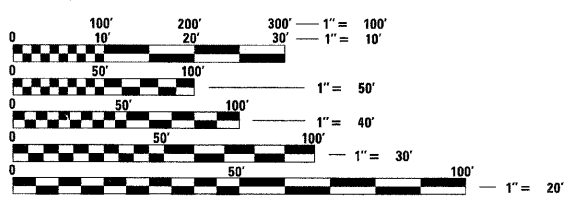
LA SALLE ST: 8275 (20) URBAN COLLECTOR

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



PROJECT BEGINS
NB LA SALLE ST
STA 400+36

PROJECT ENDS
NB LA SALLE ST
STA 426+28

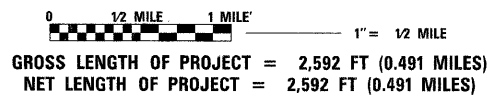


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

CONTRACT NO. 62992

LOCATION MAP



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED FEBRUARY 8, 2008
Diana M. O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

March 21, 2008
Eric E. Haran
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

March 21, 2008
Christina M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

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

FR:6601\cadd\gwin\31E SHEETS\6601_31ECOVER.dgn

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

62992

GENERAL NOTES:

- THE CONTRACTOR SHALL COORDINATE ALL ACTIVITIES WITH:
 CONTRACT 60A04 - NB FENCE AND GATES FROM 47TH PLACE TO 31ST ST.
 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
- CONTRACTOR SHALL MATCH ALL WORK COMPLETED IN CONTRACT 62301
- 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.
- USE NO. 6 EPOXY-COATED TIE BARS CONFORMING TO ARTICLE 1006.10(B)(2) OF THE STANDARD SPECIFICATIONS FOR TYING THE CURB AND GUTTER SECTIONS TO PAVEMENT AS SHOWN ON THE PLANS. THE TIE BARS WILL NOT BE PAID FOR SEPARATELY. TIE BARS USED WITH CURB AND GUTTER MUST BE INCLUDED IN THE COST OF THE COMBINATION CONCRETE CURB AND GUTTER OF THE TYPE SPECIFIED.
- CHAIN LINK FENCE REMOVAL MUST BE CONSIDERED AS PART OF CLEARING.
- IT MUST BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT NO GAP REMAINS BETWEEN PROPOSED KNEE WALLS OR WHERE PROPOSED KNEE WALL TERMINATES AND EXISTING FENCE REMAINS 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.
- SUPERSTRUCTURE RATING COARSE AGGREGATE MUST BE USED IN THE CONCRETE BARRIER WALL CONCRETE MIXTURE.
- 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.
- CRUSHING PLANT AND CONCRETE PLANT LOCATIONS REQUIRE CITY OF CHICAGO APPROVAL.
- 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 USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR MUST BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
- 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. 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. EXISTING SIGNS TO BE RELOCATED ONTO PROPOSED KNEE WALL FOOTINGS SHALL BE INSTALLED ACCORDING TO SECTIONS 728 AND 731 OF THE STANDARD SPECIFICATIONS. LABOR AND MATERIALS FOR RELOCATION OF EXISTING SIGNS WILL NOT BE MEASURED FOR PAYMENT, BUT SHALL BE INCLUDED IN THE COST OF THE FLUTED KNEE WALL.
- 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.

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.

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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

GENERAL NOTES

SCALE: NONE
 DATE: 02/08/08

DRAWN BY: JDC
 CHECKED BY: RS

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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 3 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

62992

SUMMARY OF QUANTITIES

| CODE NO. | ITEM | UNIT | QUANTITY | URBAN |
|----------|--|--------|----------|-----------------|
| | | | | 100% STATE JOOO |
| 20200100 | EARTH EXCAVATION | CU YD | 608 | 608 |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 57 | 57 |
| 21101645 | TOPSOIL FURNISH AND PLACE, 12" | SQ YD | 511 | 511 |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.21 | 0.21 |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 25 | 25 |
| 25000500 | PHOSPHORUS FERTILIZER NUTRIENT | POUND | 25 | 25 |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 25 | 25 |
| 25000800 | GROUND PREPARATION FOR SEEDING | ACRE | 0.15 | 0.15 |
| 25001800 | SEEDING, CLASS 4 (MODIFIED) | ACRE | 0.06 | 0.06 |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 1,283 | 1,283 |
| 42001300 | PROTECTIVE COAT | SQ YD | 112 | 112 |
| 50300225 | CONCRETE STRUCTURES | CU YD | 8.9 | 8.9 |
| 50300255 | CONCRETE SUPERSTRUCTURE | CU YD | 7.4 | 7.4 |
| 50300300 | PROTECTIVE COAT | SQ YD | 282 | 282 |
| 50300510 | RUSTICATION FINISH | SQ FT | 95 | 95 |
| 50800205 | REINFORCEMENT BARS, EPOXY COATED | POUND | 1,270 | 1,270 |
| 60618324 | CONCRETE MEDIAN SURFACE, 6" (SPECIAL) | SQ FT | 815 | 815 |
| 66400550 | CHAIN LINK FENCE, 4' (SPECIAL) | FOOT | 2,477 | 2,477 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| 70101800 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 1 |
| X0322256 | TEMPORARY INFORMATION SIGNING | SQ FT | 26 | 26 |
| X0323973 | SEDIMENT CONTROL, SILT FENCE | FOOT | 2670 | 2670 |
| X0323974 | SEDIMENT CONTROL, SILT FENCE MAINTENANCE | FOOT | 668 | 668 |
| X0324640 | FLUTED KNEE WALL | FOOT | 2621 | 2621 |
| X2500322 | SEEDING, CLASS 5A (MODIFIED) | ACRE | 0.06 | 0.06 |
| X6065740 | CONCRETE MEDIAN SURFACE, 5" (MODIFIED) | SQ FT | 193 | 193 |
| X7015000 | CHANGEABLE MESSAGE SIGN | CAL MO | 6 | 6 |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 1 |
| Z0030020 | IMPACT ATTENUATORS (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 | EACH | 2 | 2 |
| 44002300 | CURB REMOVAL (PARTIAL) | FOOT | 138 | 138 |
| Z0029999 | IMPACT ATTENUATOR REMOVAL | EACH | 1 | 1 |

INDEX OF SHEETS

| SHEET | DESCRIPTION |
|-------|---|
| 1 | COVER SHEET |
| 2 | GENERAL NOTES AND PROJECT COMMITMENTS |
| 3 | SUMMARY OF QUANTITIES / INDEX / HIGHWAY STANDARDS |
| 4 | EXISTING AND PROPOSED TYPICAL SECTIONS |
| 5-9 | ALIGNMENT PLANS, SURVEY TIES AND CONTROL POINTS |
| 10-16 | EXISTING AND PROPOSED KNEE WALL PLANS |
| 17-19 | STRUCTURAL DETAILS |
| 20 | BD-51 DISTRICT 1, BENCHING DETAIL FOR EMBANKMENT WIDENING |
| 21 | TC-10 DISTRICT 1, TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS & DRIVEWAYS |
| 22 | TC-17 DISTRICT 1, TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES PARTIAL RAMP CLOSURES |
| 23 | TC-18 DISTRICT 1, SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS |
| 24 | TC-22 DISTRICT 1, ARTERIAL ROAD INFORMATION SIGN |
| 25-37 | CROSS SECTIONS |

IDOT HIGHWAY STANDARDS

| SHEET | DESCRIPTION |
|-----------|---|
| 000001-05 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 001001-01 | AREAS OF REINFORCEMENT BARS |
| 001006 | DECIMAL OF AN INCH AND OF A FOOT |
| 664001-01 | CHAIN LINK FENCE |
| 701601-05 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701701-05 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701801-03 | LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, for speeds < 45 mph |
| 701901 | TRAFFIC CONTROL DEVICES |
| 720001 | SIGN PANEL MOUNTING DETAILS |
| 720006-01 | SIGN PANEL ERECTION DETAILS |
| 728001 | TELESCOPING STEEL SIGN SUPPORT |
| 731001 | BASE FOR TELESCOPING STEEL SIGN SUPPORT |

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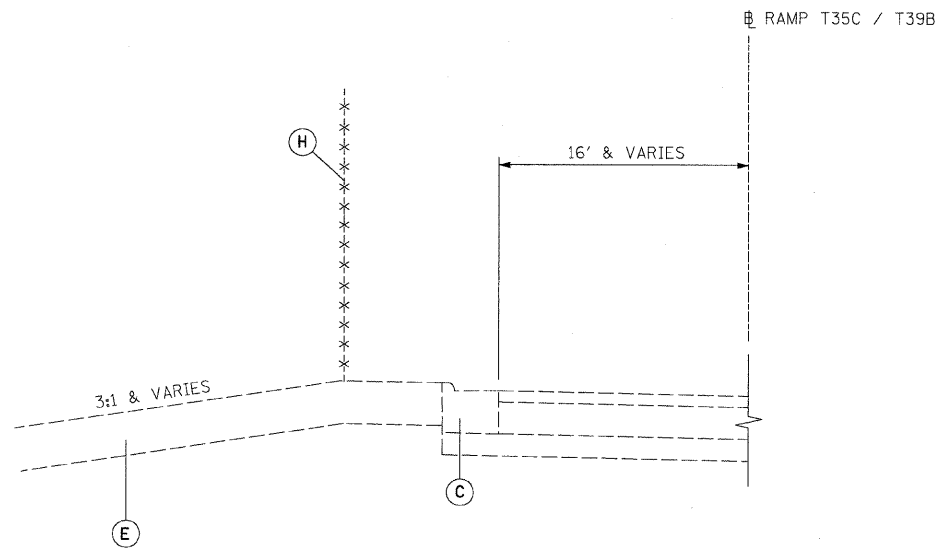
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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)
SUMMARY OF QUANTITIES
INDEX OF SHEETS
HIGHWAY STANDARDS
SCALE: NONE DRAWN BY: JDC
DATE: 02/08/08 CHECKED BY: DDM

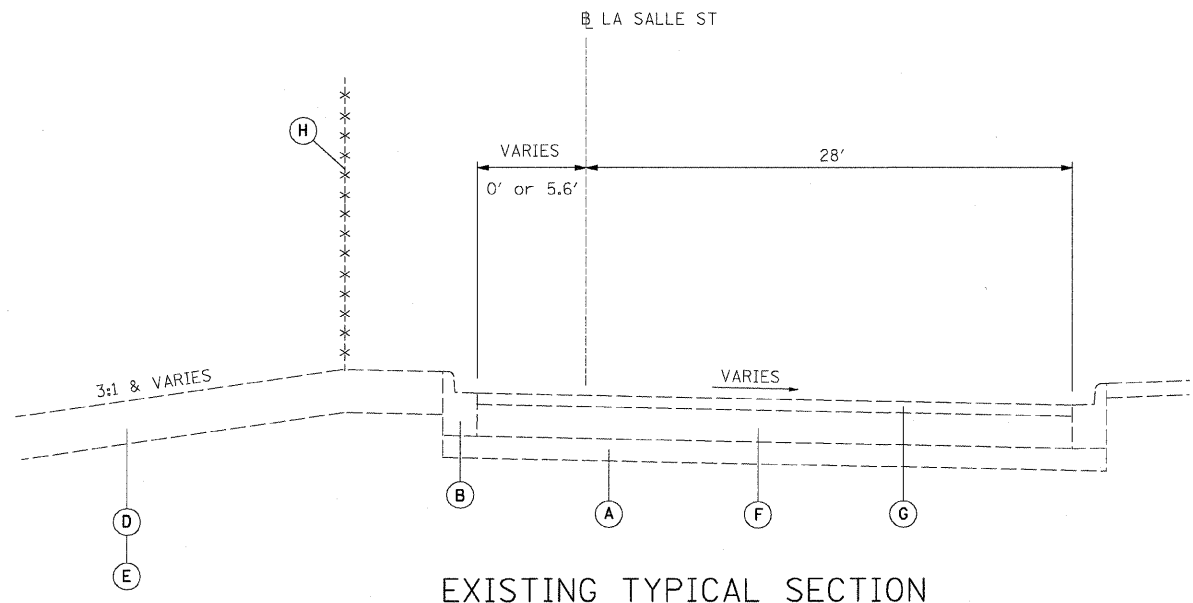
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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 4 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P)1 | | |



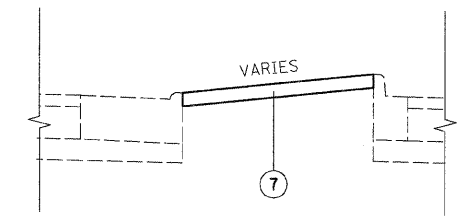
STA. 8028+48 to 410+83
 STA. 412+91 to 6020+75



EXISTING TYPICAL SECTION
 STA. 400+52 to 408+33
 STA. 410+83 to 412+91
 STA. 415+19 to 426+03

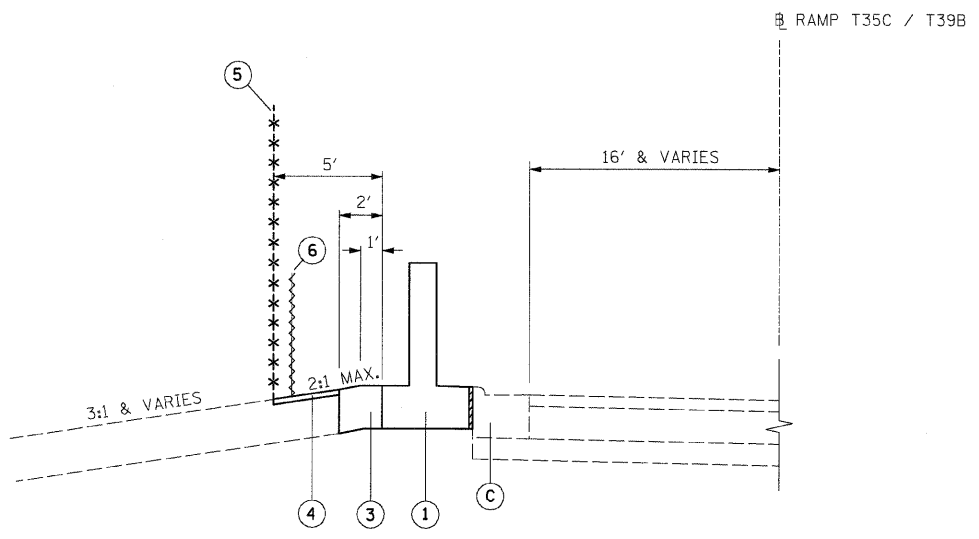
EXISTING LEGEND

- (A) GRANULAR MATERIAL, 6"
- (B) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE M-4.24
- (D) TOPSOIL, 4"
- (E) TOPSOIL, 12"
- (F) PORTLAND CEMENT CONCRETE PAVEMENT, 9"
- (G) BITUMINOUS CONCRETE, 3"
- (H) CHAIN LINK FENCE, 4"

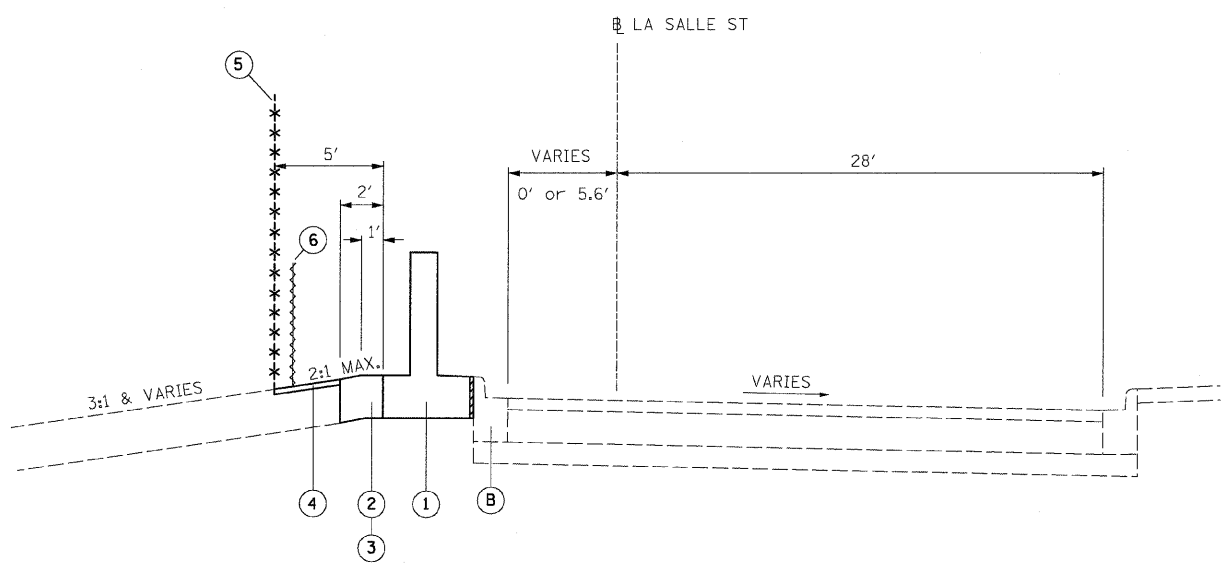


TYPICAL MEDIAN TREATMENT

STA. 407+40 to 408+19
 STA. 414+99.50 to 415+57
 STA. 8028+19 to 8028+78



STA. 8028+48 to 410+83
 STA. 412+91 to 6020+75



PROPOSED TYPICAL SECTION
 STA. 400+52 to 408+33
 STA. 410+83 to 412+91
 STA. 415+19 to 426+03

PROPOSED LEGEND

- (1) FLUTED KNEE WALL
- (2) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 4" / EROSION CONTROL BLANKET
- (3) SEEDING, CLASS 2A / TOPSOIL FURNISH AND PLACE, 12" / EROSION CONTROL BLANKET
- (4) SEEDING, CLASS 2A / GROUND PREPARATION FOR SEEDING / EROSION CONTROL BLANKET
- (5) CHAIN LINK FENCE, 4' (SPECIAL)
- (6) SEDIMENT CONTROL, SILT FENCE (TO BE REMOVED AT PROJECT COMPLETION)
- (7) CONCRETE MEDIAN SURFACE, 6" (SPECIAL)

NOTES:

1. THICKNESS OF EXISTING PAVEMENT AND GRANULAR MATERIAL ARE TAKEN FROM RECORD DRAWING PLANS.
2. TYPICAL SECTIONS NEED TO BE VERIFIED WITH THE PLANS AS THEY ARE A REPRESENTATION OF THE PLANS. THEY DO NOT SHOW ALL CONFIGURATIONS, JUST THE MOST PREDOMINANT.

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| REVISIONS | |
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| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

TYPICAL SECTIONS

SCALE: NTS
 DATE: 03/06/08

DRAWN BY: JDC
 CHECKED BY: RS

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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 5 |
| STA. | | TO STA. | | |
| 62992 | | • (2323.6-2P&2324.6-1P) | | |

PROP. CURVE SBDR10
P.I. STA = 1539+47.07
N = 1,874,803.43
E = 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 = 1,874,493.81
E = 1,175,775.38
P.T. STA = 1542+74.55
N = 1,875,141.96
E = 1,175,903.41

PROP. CURVE EL4300
P.C. STA = 714+54.39
N = 1,875,675.42
E = 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'
P.C. STA = 713+67.12
N = 1,875,762.70
E = 1,175,826.31
P.T. STA = 715+41.66
N = 1,875,588.15
E = 1,175,826.55

PROP. CURVE SWTH1
P.I. STA = 13+21.89
N = 1,874,747.97
E = 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 = 1,874,459.70
E = 1,175,568.28
P.T. STA = 16+30.84
N = 1,875,069.72
E = 1,175,702.20

PROP. CURVE EL4301
P.I. STA = 723+10.32
N = 1,874,819.53
E = 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 STA 727+63.41 (1.83%)
P.C. STA = 719+92.41
N = 1,875,137.42
E = 1,175,830.77
P.T. STA = 726+18.95
N = 1,874,527.76
E = 1,175,707.50

PROP. CURVE A4701
P.I. STA = 5072+36.79
N = 1,874,030.16
E = 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 = 1,874,189.71
E = 1,175,442.25
P.T. STA = 5074+13.97
N = 1,873,854.99
E = 1,175,322.86

PROP. CURVE A4700
P.I. STA = 5064+21.82
N = 1,874,765.22
E = 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 STA 5061+21.86
S.R. = STA 5067+13.48 TO STA 5067+83.48
P.C. STA = 5060+98.86
N = 1,875,087.21
E = 1,175,756.48
P.T. STA = 5067+36.48
N = 1,874,477.28
E = 1,175,585.12

PROP. CURVE C4300
P.I. STA = 7054+50.07
N = 1,875,794.51
E = 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 STA 7053+87.79
S.R. = STA 7055+12.15 TO STA 7055+90.15
P.C. STA = 7053+61.79
N = 1,875,881.65
E = 1,175,727.39
P.T. STA = 7055+38.15
N = 1,875,706.31
E = 1,175,745.28

PROP. CURVE NBDR09
P.I. STA = 2539+31.62
N = 1,874,770.97
E = 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 = 1,874,487.21
E = 1,175,852.82
P.T. STA = 2542+29.49
N = 1,875,077.65
E = 1,175,961.17

PROP. CURVE SBLOC06
P.I. STA = 3539+38.89
N = 1,874,807.75
E = 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 = 1,874,493.12
E = 1,175,688.05
P.T. STA = 3542+69.84
N = 1,875,147.67
E = 1,175,813.52

PROP. CURVE NBLOC07
P.I. STA = 4539+56.47
N = 1,874,785.65
E = 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 = 1,874,442.48
E = 1,175,910.80
P.T. STA = 4543+21.43
N = 1,875,166.27
E = 1,176,056.22

PROP. CURVE B4700
P.I. STA = 6065+87.40
N = 1,874,784.51
E = 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 STA 6063+58.24
S.R. = STA 6068+08.40 TO STA 6068+51.92
P.C. STA = 6063+10.23
N = 1,874,525.73
E = 1,176,025.56
P.T. STA = 6068+56.40
N = 1,875,061.29
E = 1,176,109.94

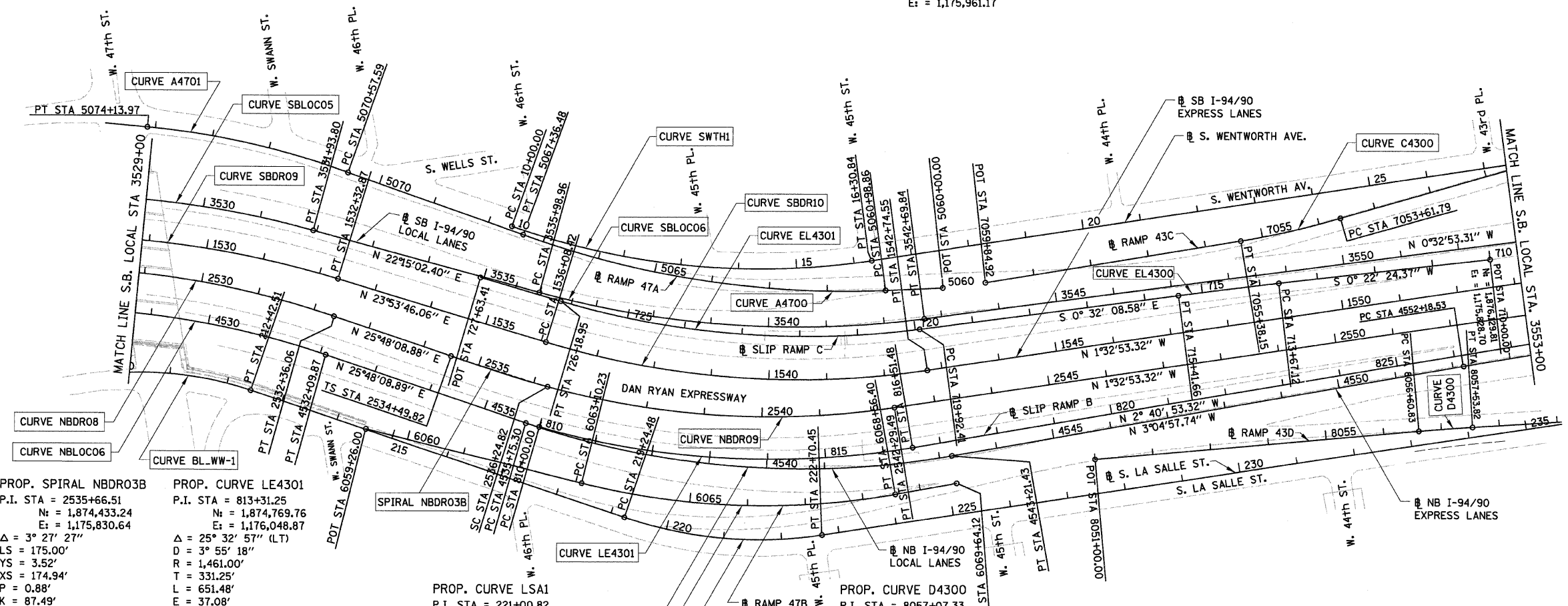
PROP. CURVE BL_WW-1
P.I. STA = 211+05.58
N = 1,873,849.12
E = 1,175,736.29
Δ = 27° 13' 24" (RT)
D = 9° 44' 58"
R = 587.69'
T = 142.30'
L = 279.23'
E = 16.98'
e = MATCH EXISTING
T.R. = MATCH EXISTING
S.E. RUN = MATCH EXISTING
P.C. STA = 209+63.28
N = 1,873,706.87
E = 1,175,740.12
P.T. STA = 212+42.51
N = 1,873,977.37
E = 1,175,797.95

PROP. SPIRAL NBDR03B
P.I. STA = 2535+66.51
N = 1,874,433.24
E = 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 = 1,874,328.19
E = 1,175,779.85
S.C. STA = 2536+24.82
N = 1,874,487.21
E = 1,175,852.82

PROP. CURVE LE4301
P.I. STA = 813+31.25
N = 1,874,769.76
E = 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 STA 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 = 1,874,464.55
E = 1,175,920.15
P.T. STA = 816+51.48
N = 1,875,100.65
E = 1,176,033.38

PROP. CURVE LSA1
P.I. STA = 221+00.82
N = 1,874,750.89
E = 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 = 1,874,591.98
E = 1,176,093.48
P.T. STA = 222+70.45
N = 1,874,927.16
E = 1,176,164.84

PROP. CURVE D4300
P.I. STA = 8057+07.33
N = 1,876,018.11
E = 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 STA 8056+63.83
S.R. = STA 8057+50.82 TO STA 8057+59.82
P.C. STA = 8056+60.83
N = 1,875,971.65
E = 1,176,110.86
P.T. STA = 8057+53.82
N = 1,876,064.53
E = 1,176,115.06



- 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.

| REVISIONS | |
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| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH STREET)
ALIGNMENT PLAN
SCALE: 1"=100'
DATE: 03/06/08
DRAWN BY: JDC
CHECKED BY: RS

BOWMAN, BARRETT & ASSOCIATES INC.
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11/26/08 08:00 AM 11/26/08 08:00 AM SHEETS 5660_31E.CAD 01.dwg 11/26/08 08:00 AM

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|---------------------|---------|-----------------------|------------------|-----------|
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 7 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| 62992 | | [2323.6-2P&2324.6-1P] | | |

PROP. CURVE DT3500
P.I. STA = 7044+22.81
N_c = 1,879,939.16
E = 1,175,643.87
Δ = 5° 14' 38" (RT)
D = 3° 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
N_c = 1,880,010.54
E_c = 1,175,633.56
P.T. STA = 7044+94.83
N_c = 1,879,867.13
E_c = 1,175,647.62

PROP. CURVE B3900
P.I. STA = 6024+08.22
N_c = 1,880,970.99
E = 1,175,932.00
Δ = 5° 47' 44" (RT)
D = 3° 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
N_c = 1,880,896.76
E_c = 1,175,943.46
P.T. STA = 6024+83.21
N_c = 1,881,046.01
E_c = 1,175,928.09

S. LASALLE ST. STA 426+58.57
W. 35TH STREET
N_c = 1,881,778.46
E_c = 1,175,967.25

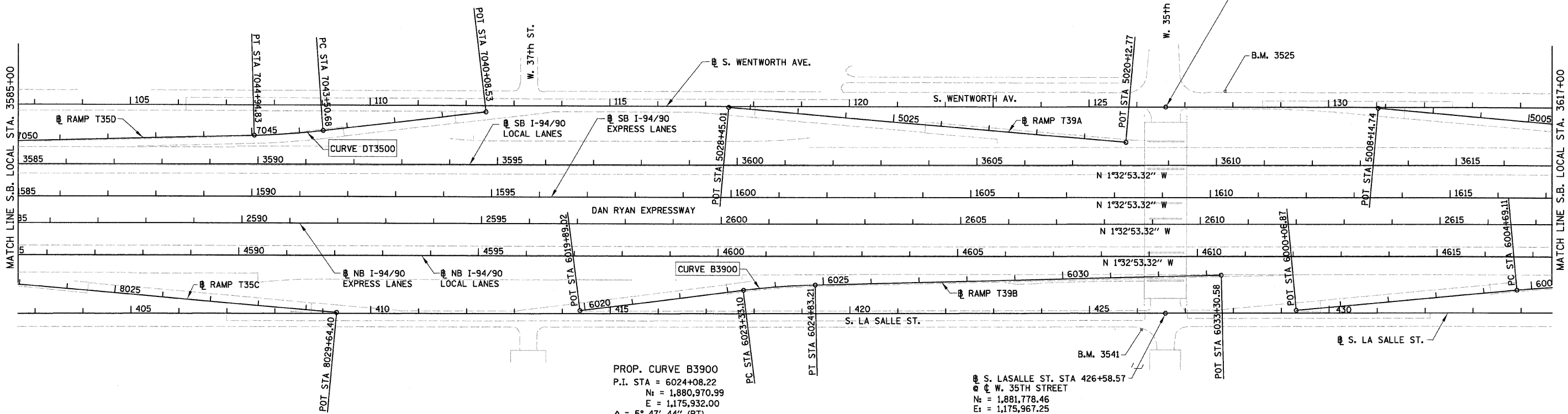
- NOTES:**
- AVERAGE GRID TO GROUND CONVERSION FACTOR = 1.000010988654360
 - FOR BENCH MARK INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.
 - FOR RAMP P.O.T. INFORMATION, SEE SHEET ALT-16 OF ALIGNMENT PLAN SHEETS.

| REVISIONS | |
|-----------|--------|
| NAME | DATE |
| REVISED | 3-6-08 |
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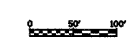
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH STREET)

ALIGNMENT PLAN

SCALE: 1"=100'
DATE: 03/06/08
DRAWN BY: JDC
CHECKED BY: RS

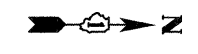
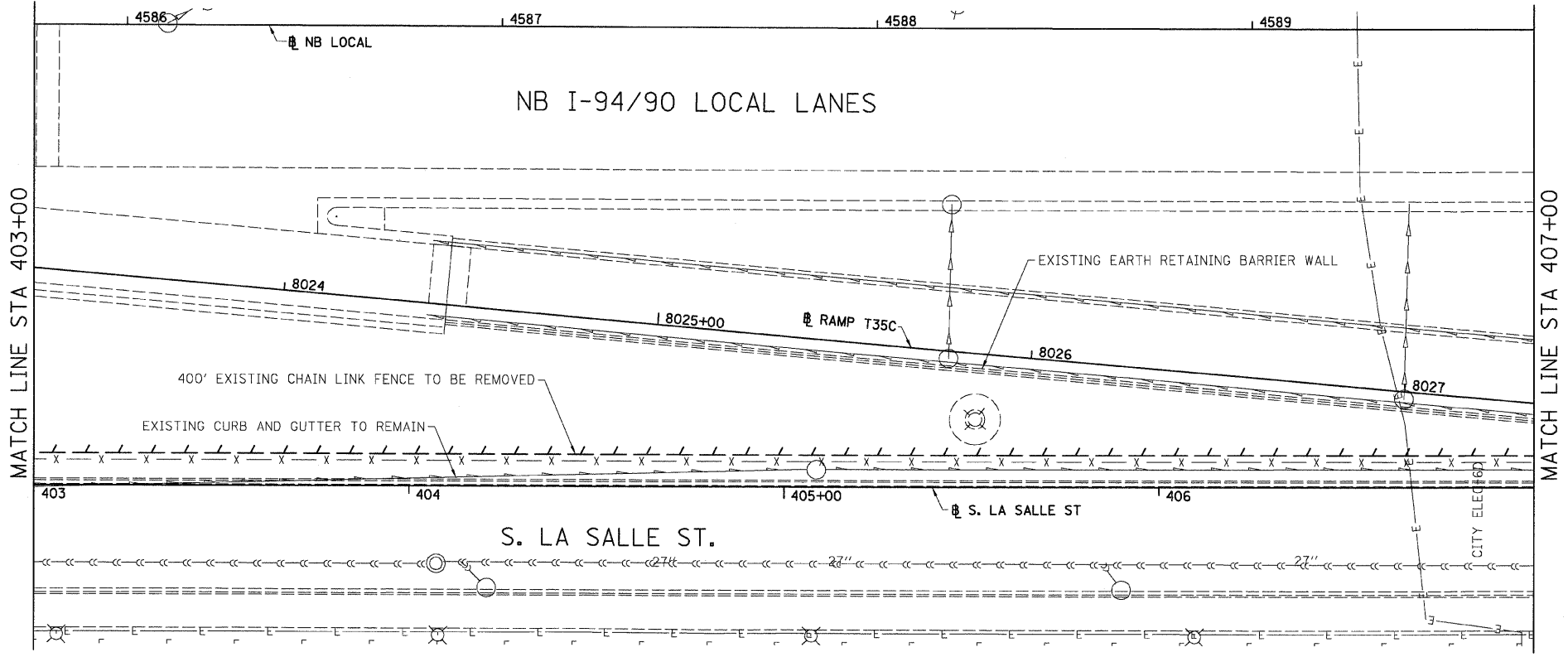


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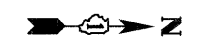
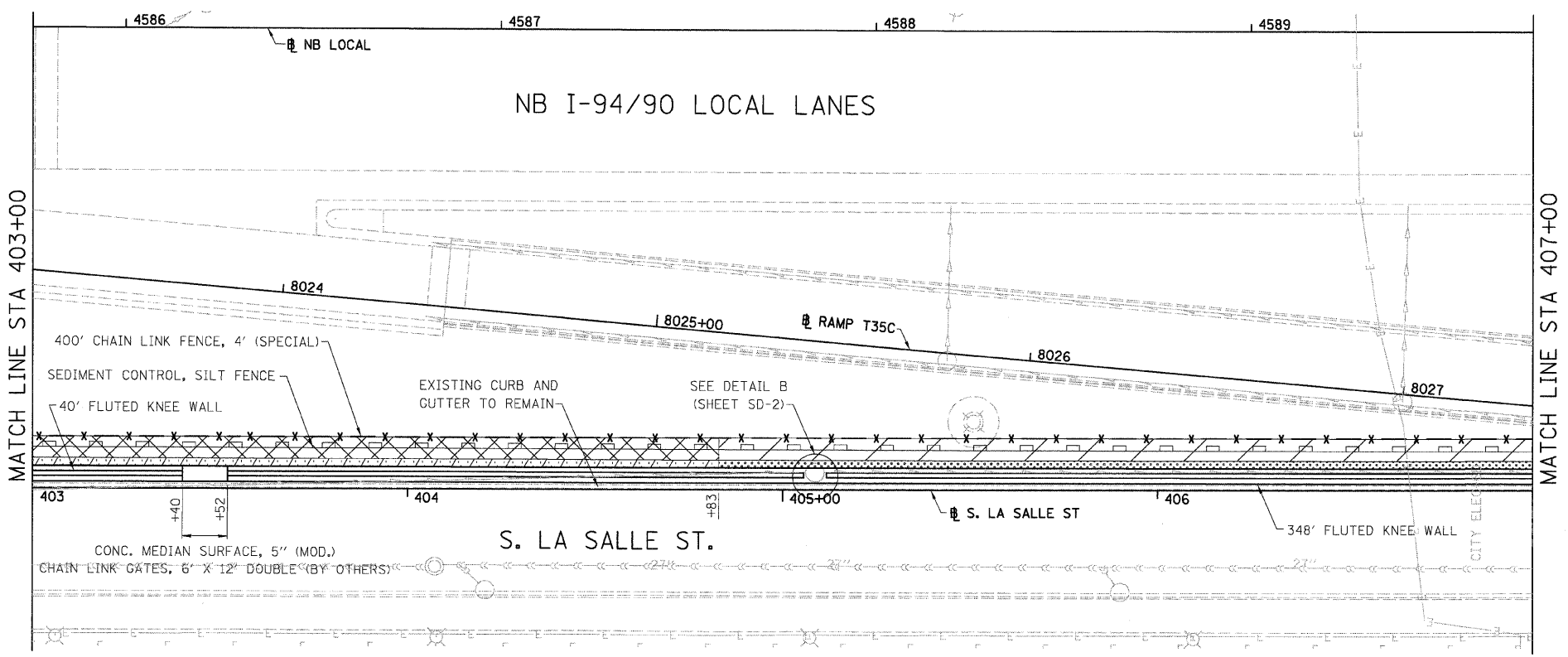
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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 11 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | • (2323.6-2P&2324.6-1P1) | | | |



LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

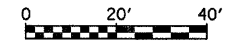


LEGEND:

- GROUND PREPARATION FOR SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- GROUND PREPARATION FOR SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



| REVISIONS | |
|-----------|--------|
| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

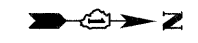
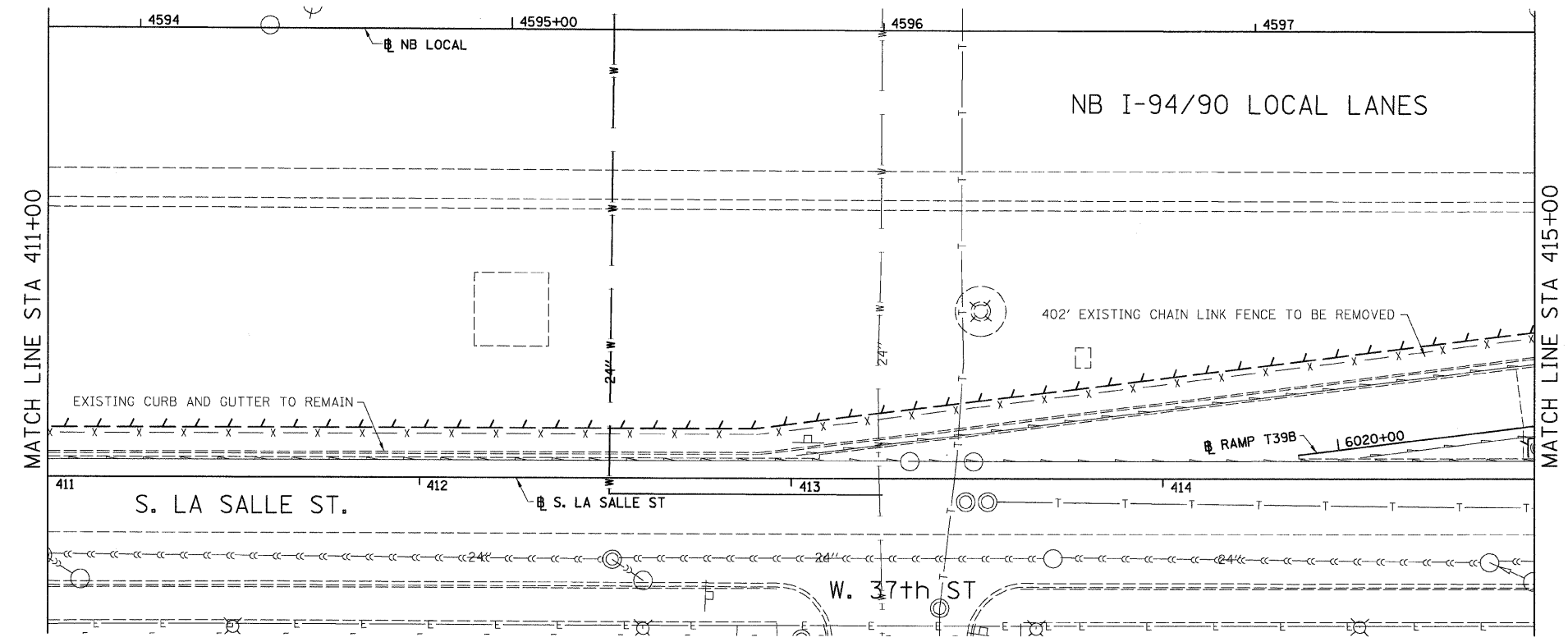
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 DATE: 03/06/08

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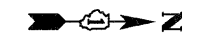
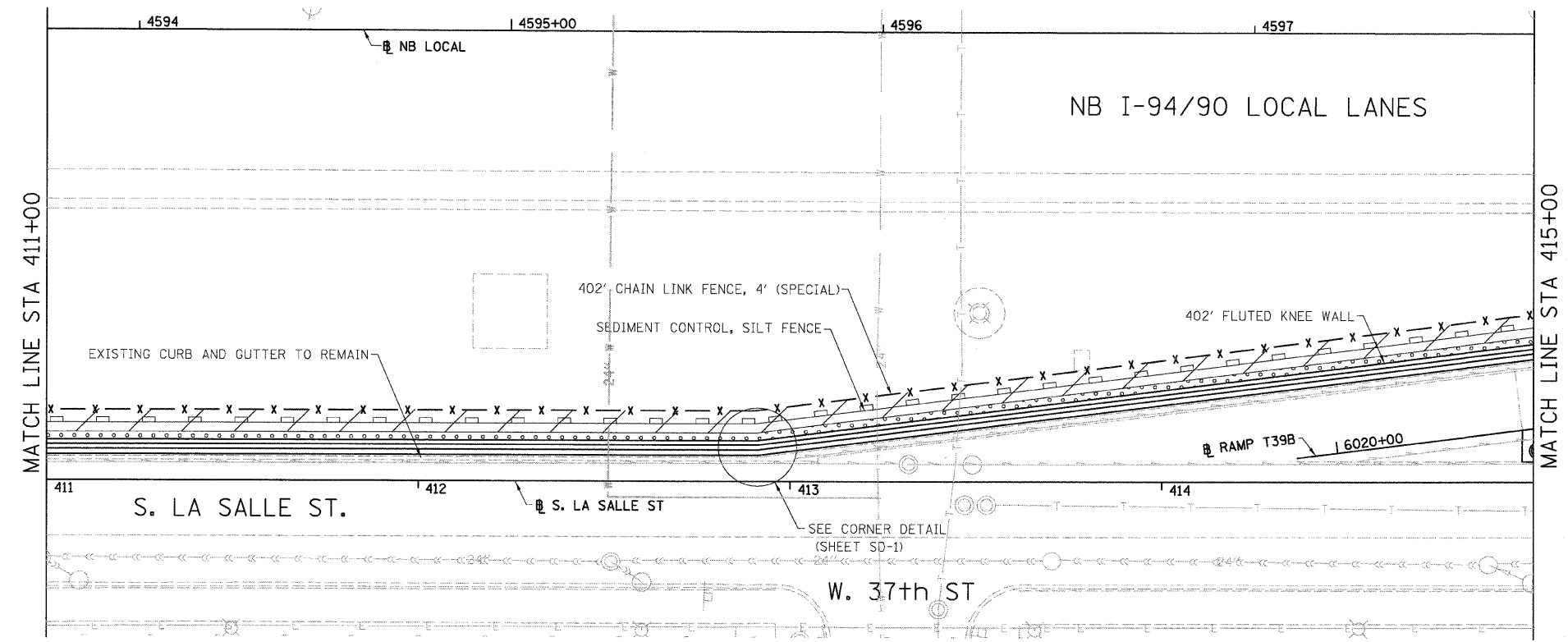
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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 13 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | I2323.6-2P&2324.6-1P1 | | | |



LEGEND:
 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

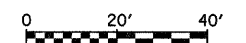


LEGEND:

- GROUND PREPARATION FOR SEEDING SEEDING, CLASS 2A EROSION CONTROL BLANKET
- GROUND PREPARATION FOR SEEDING SEEDING, CLASS 4 (MODIFIED) SEEDING CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" SEEDING CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



| REVISIONS | |
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| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

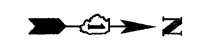
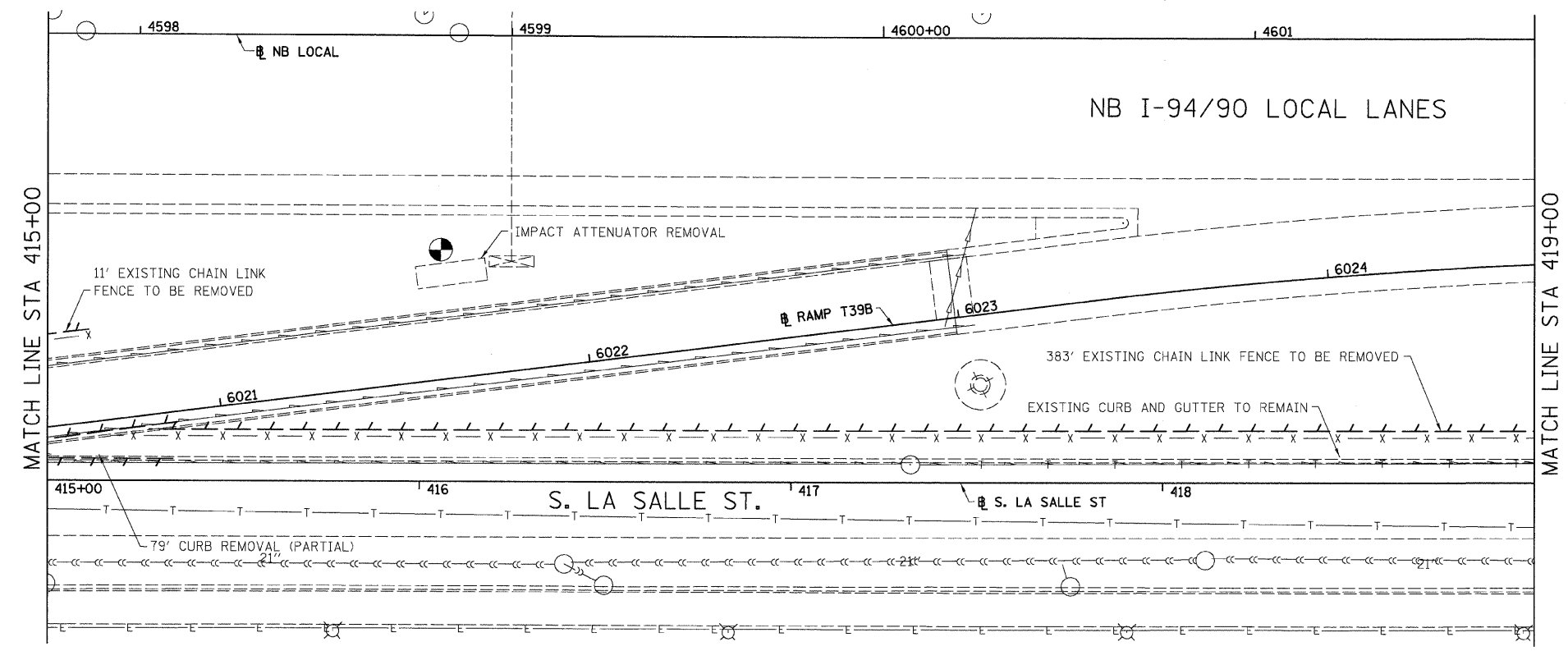
SCALE: 1"=20'
 DATE: 03/06/08

DRAWN BY: JDC
 CHECKED BY: DDM

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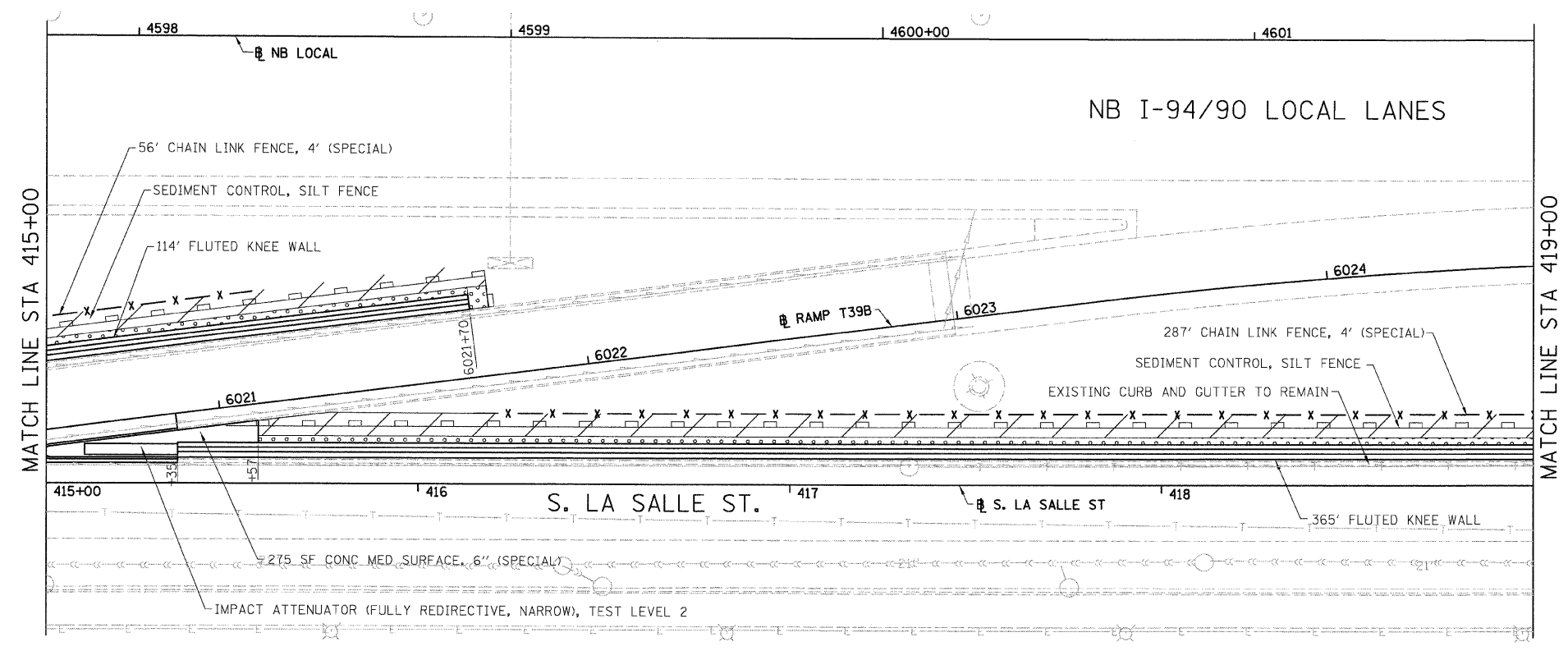
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|---------------------|--------------------------|------------------|--------------|-----------|
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 14 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | • (2323.6-2P&2324.6-1P)1 | | | |



LEGEND:

 LINEAR REMOVALS

EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS

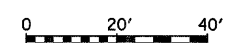


LEGEND:

- GROUND PREPARATION FOR SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- GROUND PREPARATION FOR SEEDING, CLASS 4 (MODIFIED)
SEEDING CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING, CLASS 2A
EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12"
SEEDING CLASS 4 (MODIFIED)
SEEDING, CLASS 5A (MODIFIED)
EROSION CONTROL BLANKET

NOTES:

- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
- ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



PL-5

| REVISIONS | |
|-----------|--------|
| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

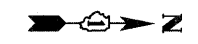
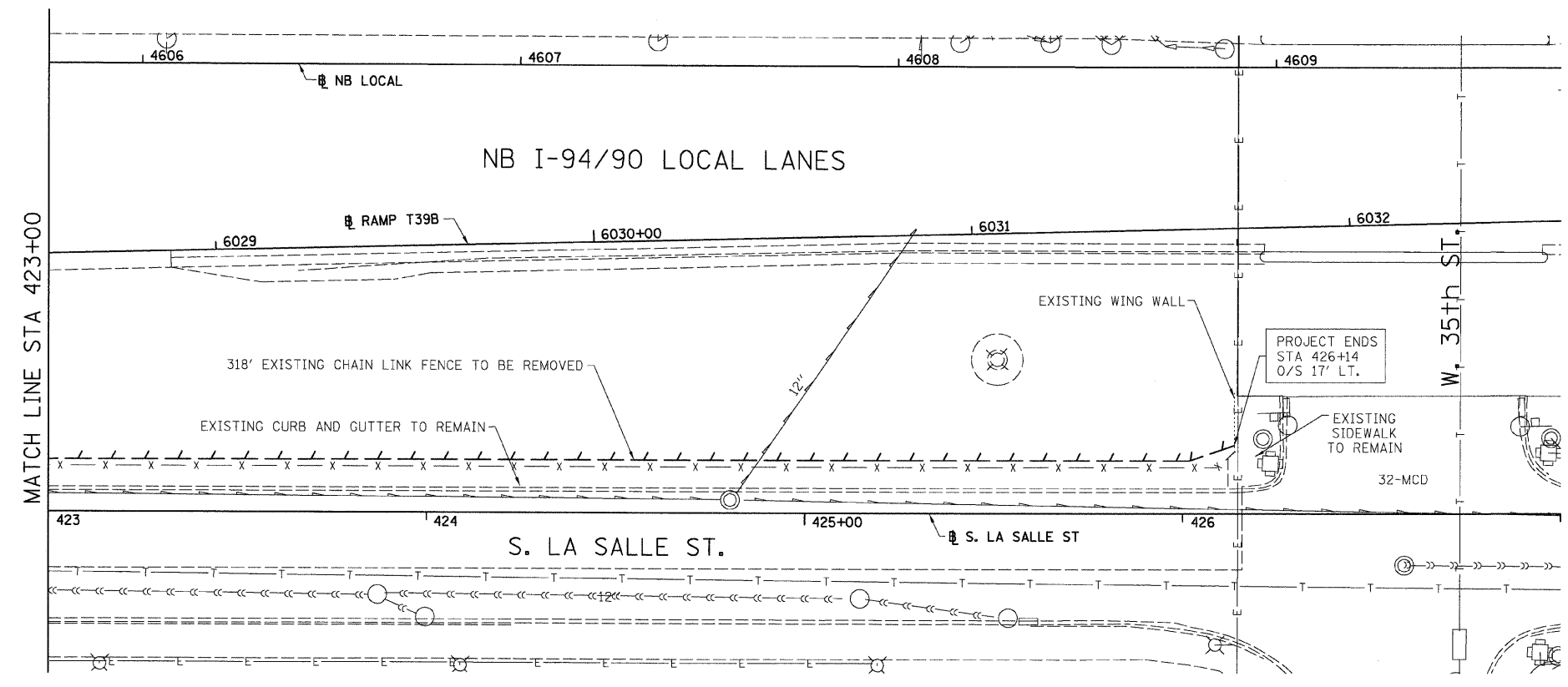
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 DATE: 03/06/08

DRAWN BY: JDC
 CHECKED BY: DDM

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

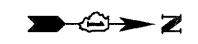
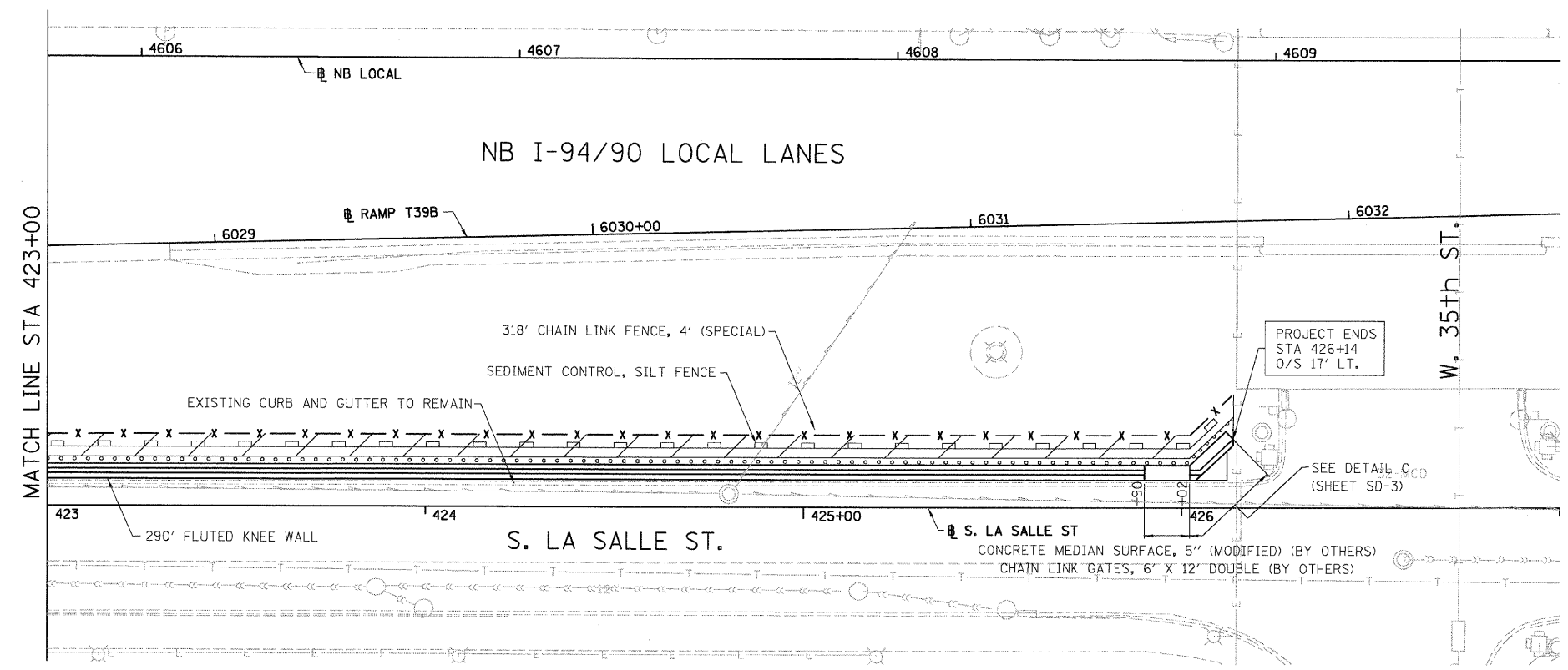
ILLINOIS DEPARTMENT OF TRANSPORTATION
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)
 SHEETS 660-31ECCPL48P
 5/16/2008 5:04:05 PM

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|---------------------|---------|---------------------------|--------------|-----------|
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | * | COOK | 37 | 16 |
| STA. | | TO STA. | | |
| 62992 | | ILLINOIS FED. AID PROJECT | | |
| FED. ROAD DIST. NO. | | • (2323.6-2P&2324.6-1P1) | | |



LEGEND:
 LINEAR REMOVALS

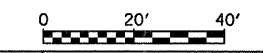
EXISTING CONDITIONS AND REMOVAL
 PROPOSED IMPROVEMENTS



LEGEND:

- GROUND PREPARATION FOR SEEDING SEEDING, CLASS 2A EROSION CONTROL BLANKET
- GROUND PREPARATION FOR SEEDING SEEDING, CLASS 4 (MODIFIED) SEEDING CLASS 5A (MODIFIED) EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 4" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" SEEDING, CLASS 2A EROSION CONTROL BLANKET
- TOPSOIL FURNISH AND PLACE, 12" SEEDING CLASS 4 (MODIFIED) SEEDING, CLASS 5A (MODIFIED) EROSION CONTROL BLANKET

- NOTES:
- SEE STRUCTURAL DETAIL FOR FLUTED KNEE WALL DETAILS.
 - ALL POINT CALLOUTS ARE TAKEN AT THE EDGE OF THE KNEE WALL BASE.



| REVISIONS | | DATE |
|-----------|----------|--------|
| NAME | REVISION | |
| | | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
 F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
 NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

EXISTING AND PROPOSED
 KNEE WALL PLANS

SCALE: 1"=20'
 DATE: 03/06/08

DRAWN BY: JDC
 CHECKED BY: DDM

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|---------------------|--------------------------|------------------|--------------|-----------|
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 18 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | • (2323.6-2P&2324.6-1P)1 | | | |

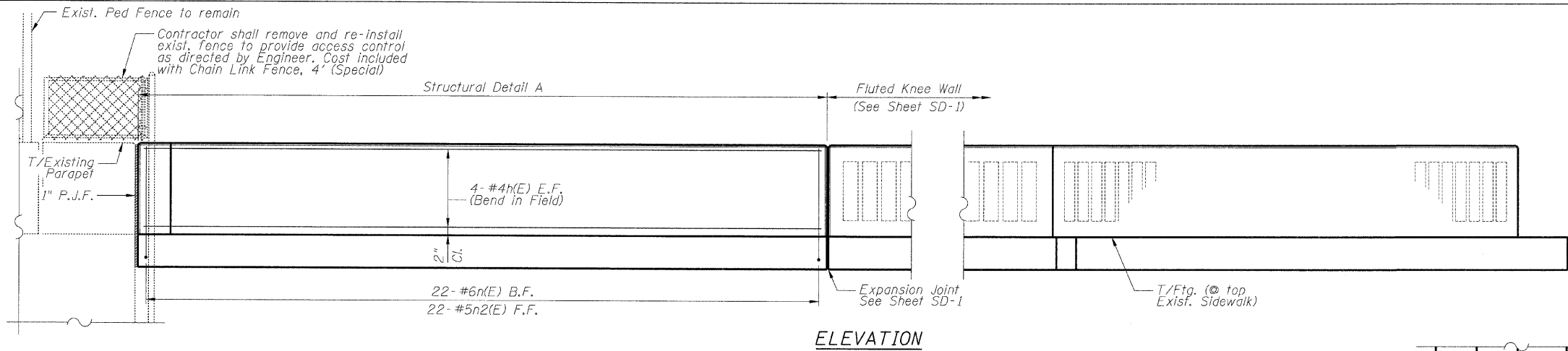
DETAIL A REINFORCEMENT SCHEDULE AND BILL OF MATERIAL

| Bar | No. | Size | Length | Shape |
|-------|-----|------|--------|-------|
| n(E) | 8 | #4 | 20'-9" | — |
| n(E) | 22 | #6 | 5'-6" | L |
| n2(E) | 22 | #5 | 4'-0" | — |
| t(E) | 22 | #6 | 3'-8" | — |
| t1(E) | 3 | #4 | 4'-0" | — |
| w(E) | 4 | #4 | 20'-8" | — |

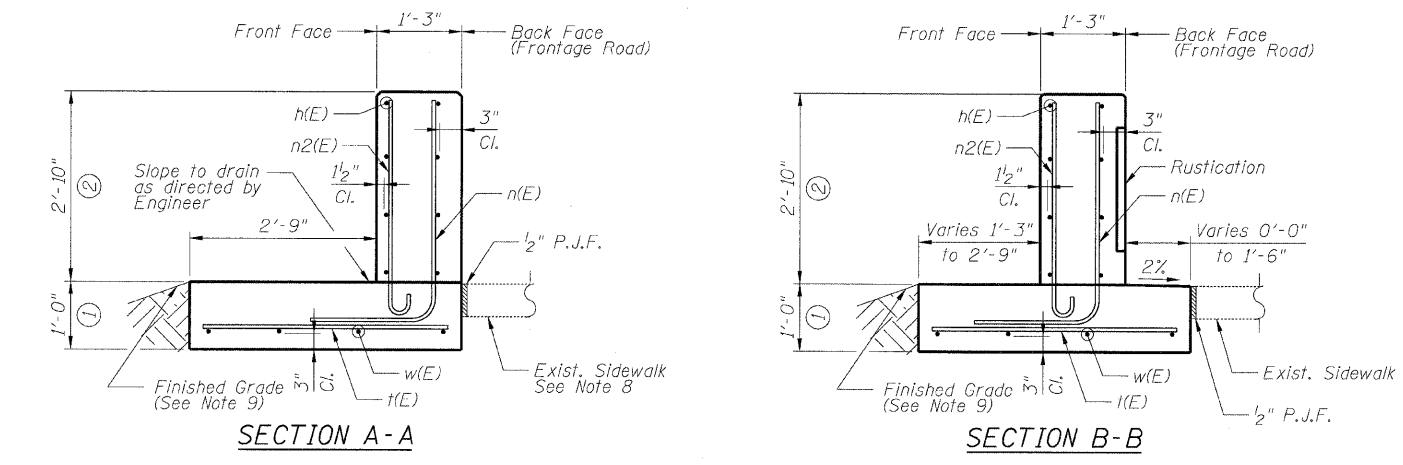
| Item | Unit | Qty. |
|----------------------------------|---------|------|
| ① Concrete Structures | Cu. Yd. | 3.3 |
| ② Concrete Superstructure | Cu. Yd. | 2.8 |
| Reinforcement Bars, Epoxy Coated | Pound | 570 |
| Protective Coat | Sq. Yd. | 12 |

NOTES:

- All stations and offsets measured from S. La Salle St. \perp .
- Concrete: $f'c = 3500$ psi
- Provide California Finish on top of foundation between stem and Frontage Road. See Roadway Details.
- At locations where Fluted Knee Wall abuts a rigid Structure, a 1" thick Preformed Expansion Joint Filler conforming to the shape of the Structure shall be installed between the Wall and the Structure.
- Apply Protective Coat to top and front face of stem and top of Frontage Road side of foundation.
- For Fluted Knee Wall standard details, see Sheet SD-1
- B.F. = Back Face (Frontage Road Side)
F.F. = Front Face (Expressway Side)
E.F. = Each Face
- Saw cut sidewalk along removal line full depth to provide neat line.
- Shape finished grade as required to match existing conditions.
- P.J.F. included in cost of concrete structures.

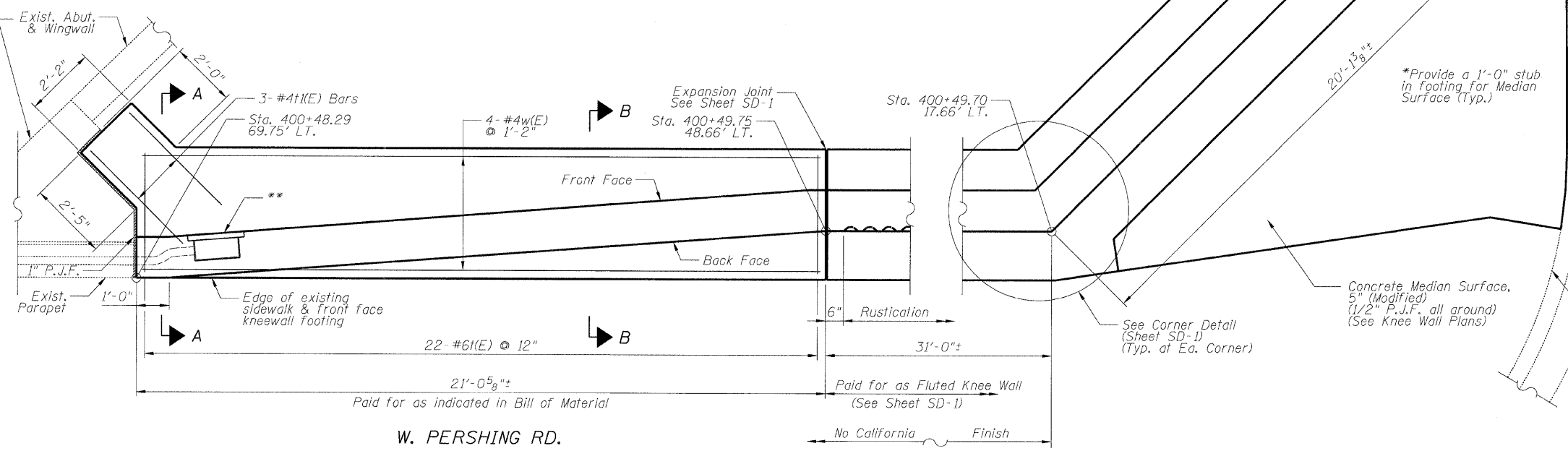


ELEVATION



SECTION A-A

SECTION B-B



PLAN

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** Contractor shall provide a stainless steel junction box and cover flush with the front face of Knee Wall and extend existing conduit from end of exiting parapet as directed by the Engineer. Cost incidental to Concrete Superstructures

| REVISIONS | |
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| NAME | DATE |
| REVISED | 3-6-08 |
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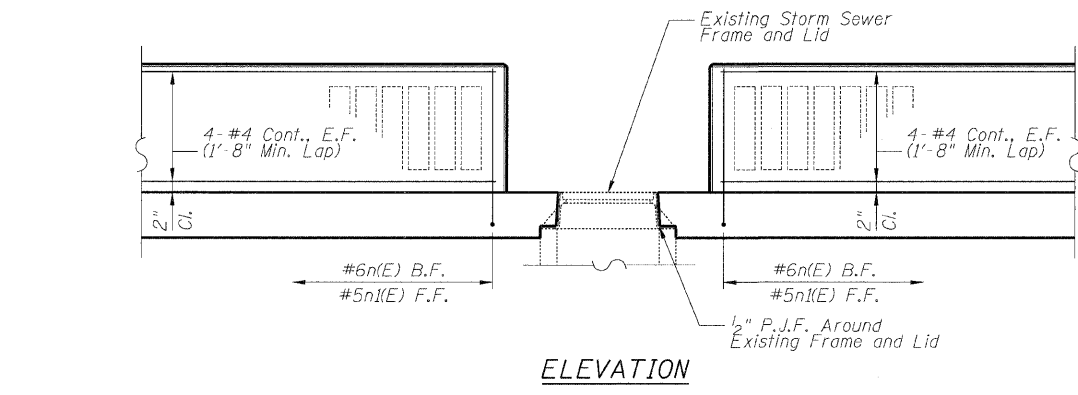
ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

KNEE WALL DETAIL A

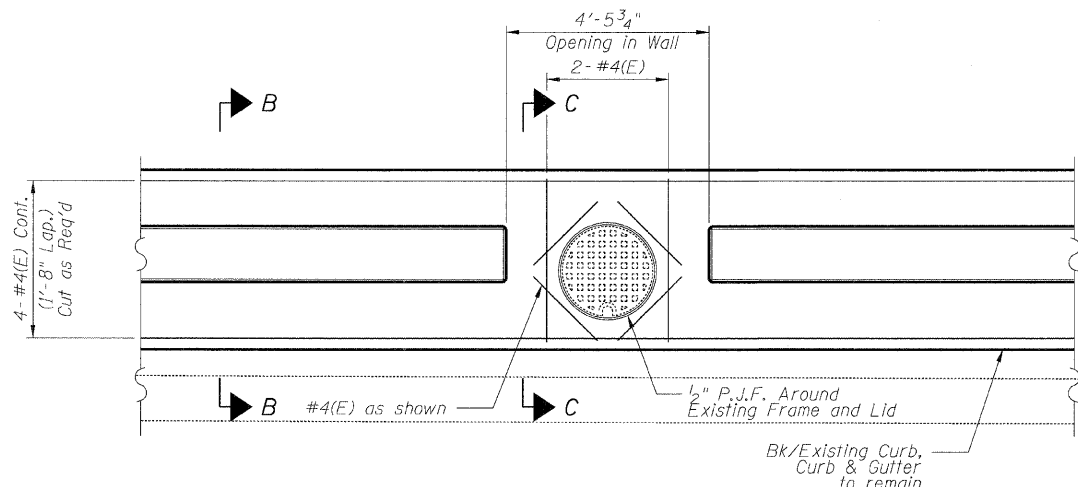
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DATE: 03/06/08 CHECKED BY: BLU

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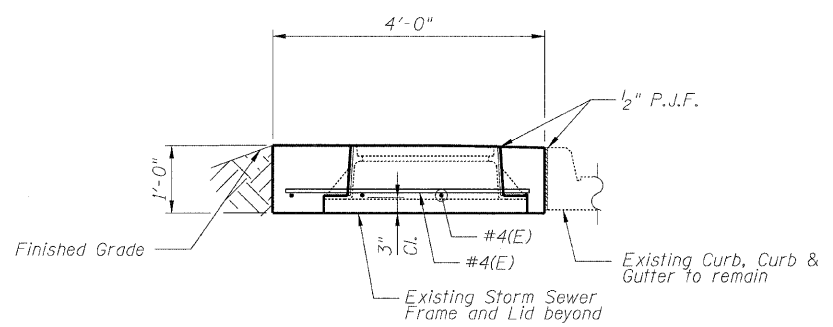
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|---------------------|------------------------|------------------|--------------|-----------|
| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 19A |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| 62992 | (2323.6-2P&2324.6-1PI) | | | |



ELEVATION



PLAN @ EXISTING STORM SEWER



SECTION C-C

NOTES:

1. All modifications shown on Detail D shall be included in the cast of Fluted Knee Wall.
2. See Sheet SD-1 for information and details not shown here.
3. Adjust California Finish as directed by Engineer.
4. Adjust dimensions to assure that a minimum of 6" of concrete is poured around the exist. storm sewer frame.
5. Center opening with center of frame and grate.

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| REVISIONS | |
|-----------|--------|
| NAME | DATE |
| REVISED | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
NORTHBOUND KNEE WALLS (PERSHING RD TO 35TH ST)

DETAIL D

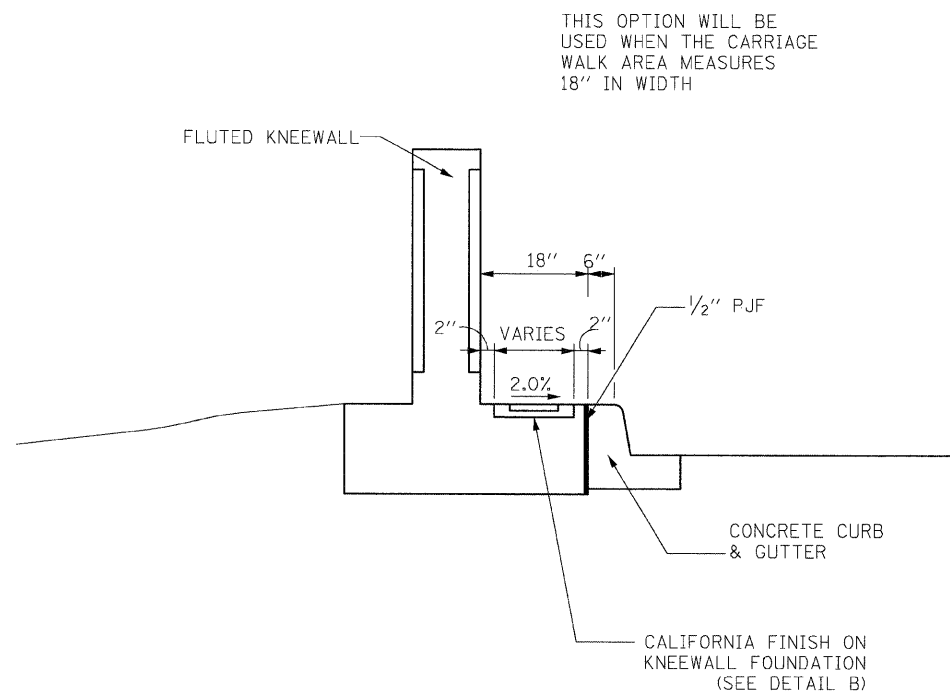
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DATE: 03/06/08

DRAWN BY: PAH
CHECKED BY: BLU

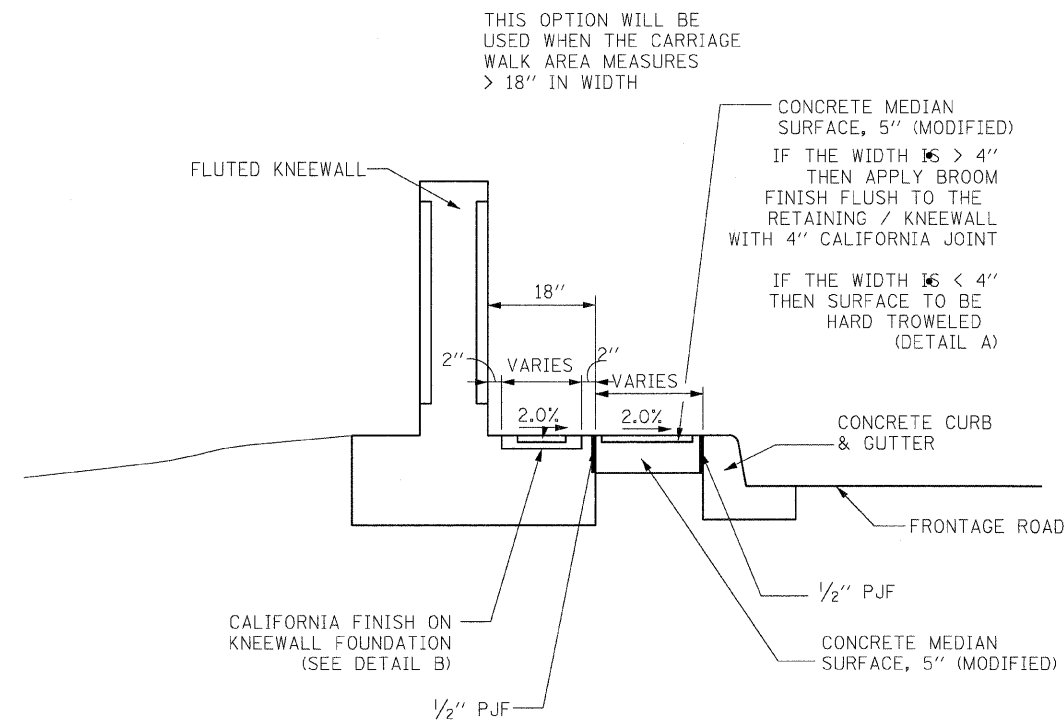
SHEET SD-4

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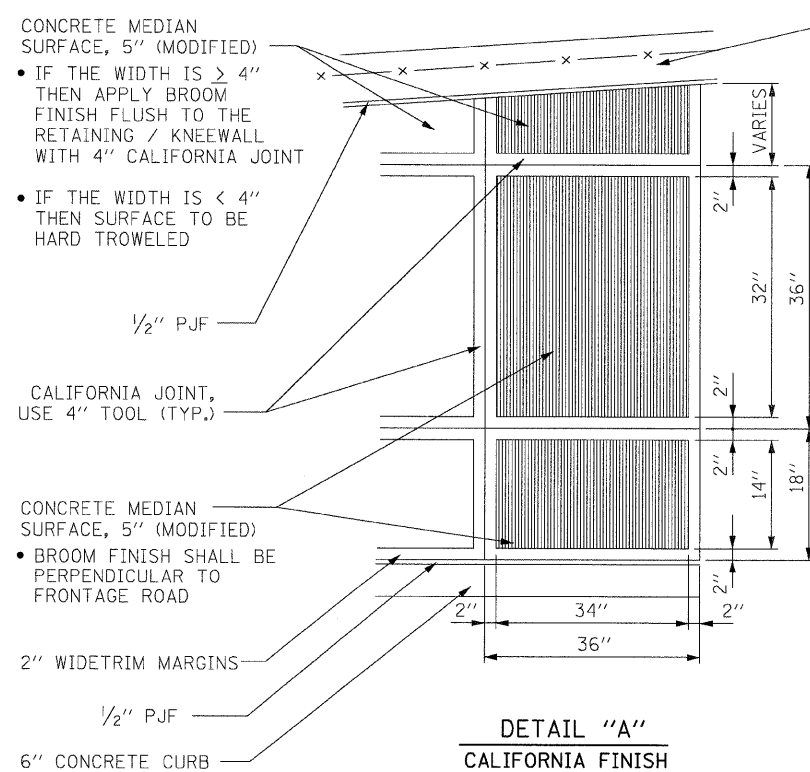
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| F.A.I. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | | COOK | 37 | 19B |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | |
| 62992 | • (2323.6-2P&2324.6-1P)1 | | | |



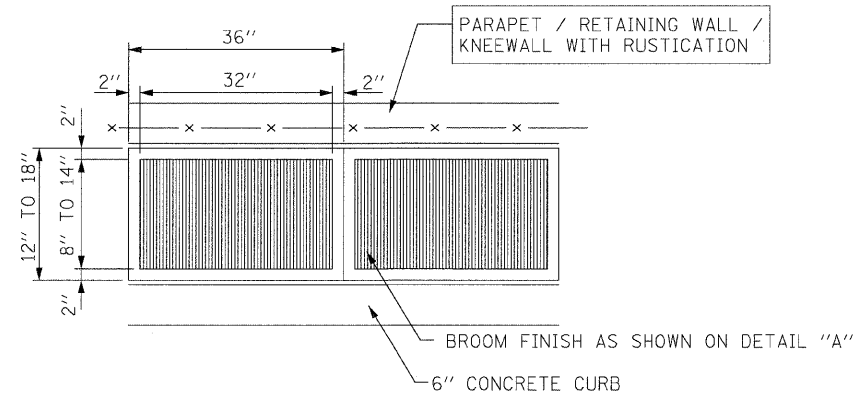
CARRIAGE WALK
WIDTH = 18"



CARRIAGE WALK
WIDTH > 18"



DETAIL "A"
CALIFORNIA FINISH



DETAIL "B"
CALIFORNIA FINISH

| REVISIONS | |
|-----------|--------|
| NAME | DATE |
| NEW SHEET | 3-6-08 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
F.A.I. 94/90 (DAN RYAN EXPRESSWAY)
GARFIELD BLVD TO 31ST STREET (NB LOCAL LANES)
ROADWAY DETAILS
CONCRETE MEDIAN SURFACE 5" (MODIFIED) CALIFORNIA FINISH
SCALE: NONE
DATE: 03/06/08
DRAWN BY: CTE
CHECKED BY: JDC

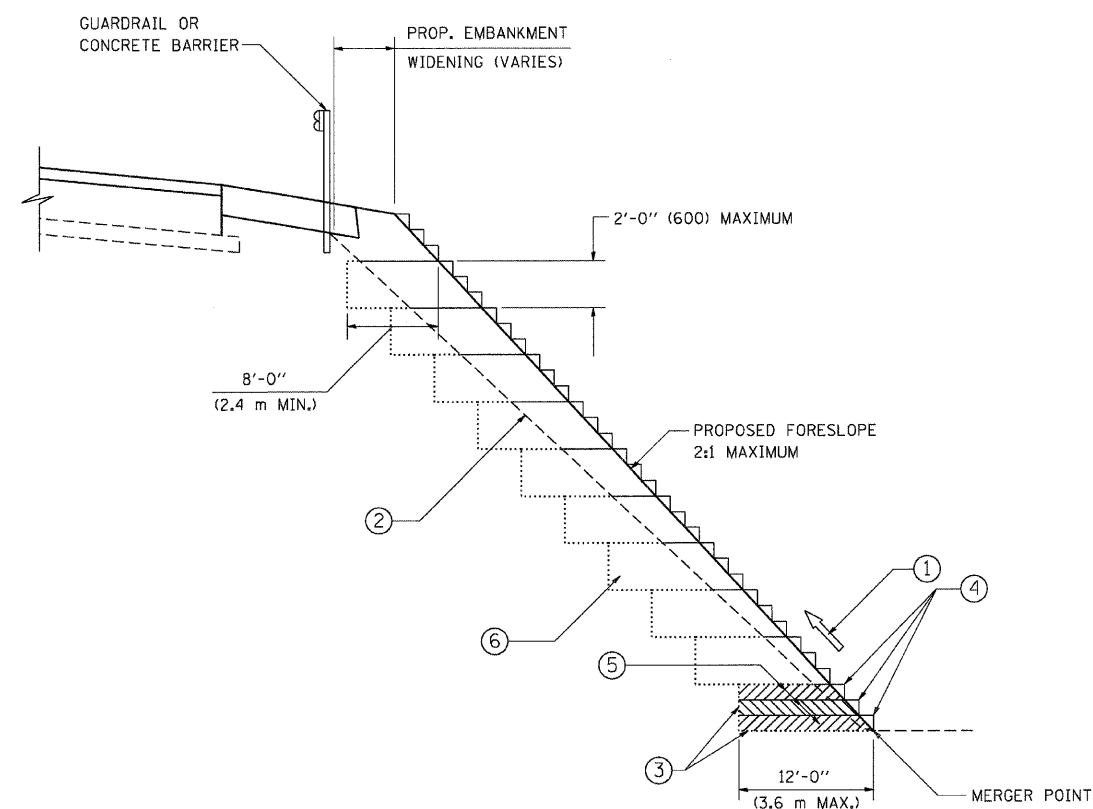
BOWMAN, BARRETT & ASSOCIATES INC.
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|---------------------|---------|---------------------------|--------------|-----------|
| CONTRACT NO. | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | * | COOK | 37 | 20 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



TYPICAL BENCHING DETAIL
FOR EMBANKMENT

NOTES:

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

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

| REVISIONS | |
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| NAME | DATE |
| | 06/16/04 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

BENCHING DETAIL
FOR EMBANKMENT
WIDENING

SCALE: VERT. NONE
HORIZ.

DRAWN BY: CADD

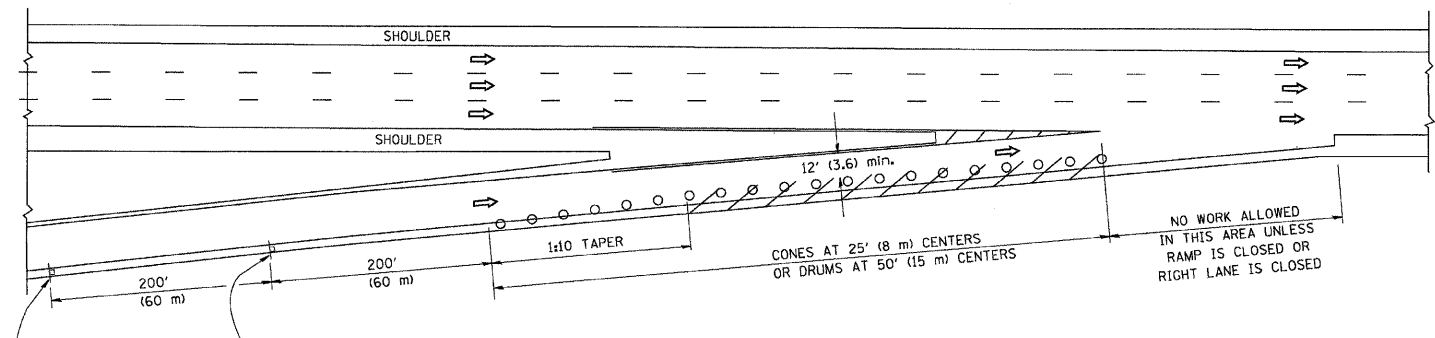
CHECKED BY: S.E.B.

BD-51

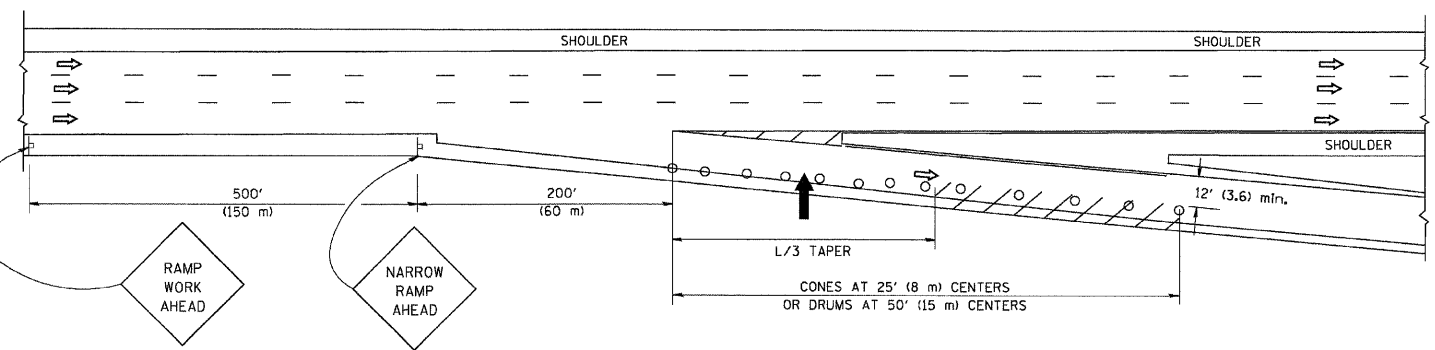
PARTIAL RAMP CLOSURE DETAILS

SHOULDER CLOSURE DETAILS

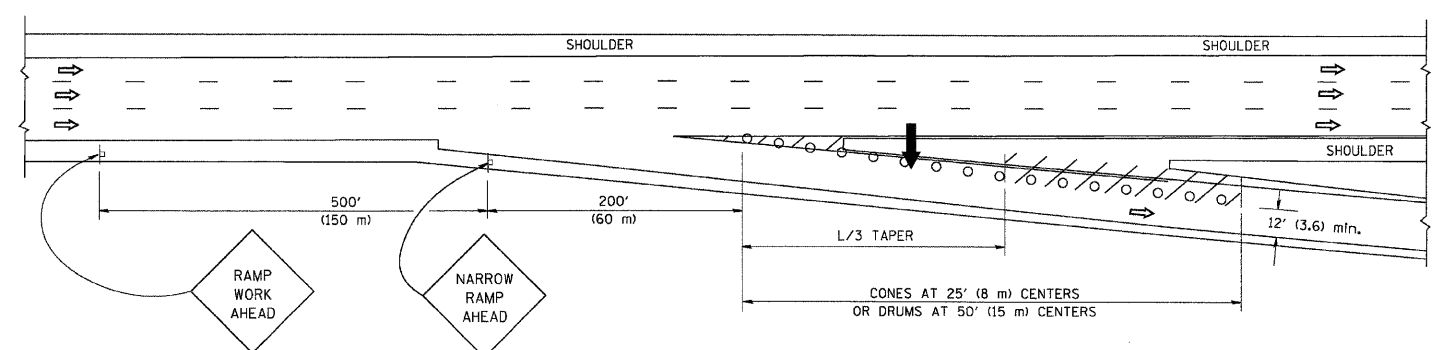
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | * | COOK | 37 | 22 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | |



TYPICAL ENTRANCE RAMP



TYPICAL EXIT RAMP



TYPICAL EXIT RAMP

SYMBOLS

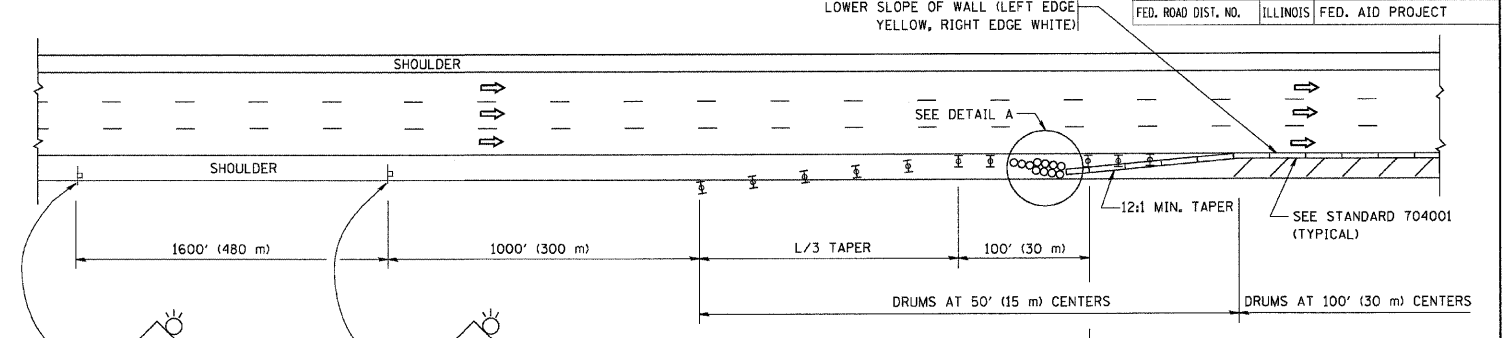
- ARROWBOARD
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH CONTROL SIGN
- TYPE II BARRICADE, DRUM OR VERTICAL BARRICADE WITH STEADY BURN MONO-DIRECTIONAL LIGHT
- CONE, DRUM OR BARRICADE

GENERAL NOTES

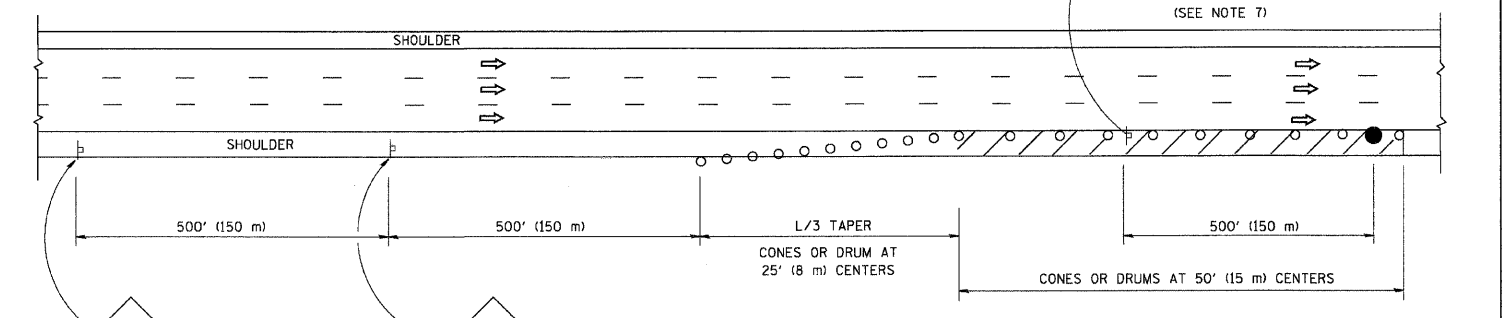
- THE "L" DISTANCE EQUALS:

| | |
|------------------------------|--|
| SPEED LIMIT | FORMULAS |
| 45 mph (80 km/h) OR GREATER: | METRIC: $L=0.65(W)(S)$ ENGLISH: $L=(W)(S)$ |

W = WIDTH OF OFFSET IN FEET (METERS)
 S = NORMAL POSTED SPEED MPH (KM/H)
- PLASTIC DRUMS WITH HIGH PERFORMANCE REFLECTIVE SHEETING AND STEADY BURNING LIGHTS ARE REQUIRED FOR ALL NIGHTTIME CLOSURES.
- ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.
- FLASHING LIGHTS SHALL BE USED DURING THE HOURS OF DARKNESS AND SHALL BE INSTALLED ABOVE THE FIRST TWO SETS OF SIGNS.

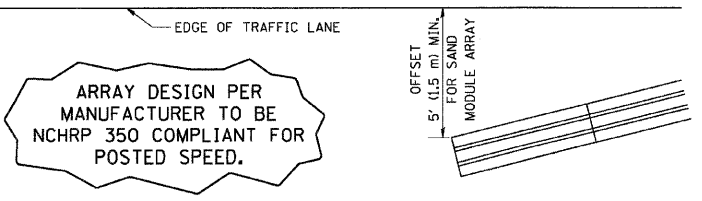


PERMANENT SHOULDER CLOSURE



DAYTIME SHOULDER CLOSURE

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



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

- 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.
- AUTHORIZATION FROM THE DISTRICT'S BUREAU OF TRAFFIC IS REQUIRED FOR ALL FREEWAY CLOSURES.
- THE FLAGGER AND FLAGGER SIGN ARE REQUIRED AT THE ABOVE WORK SITES WHEN:
 - FOUR OR MORE WORK VEHICLES ENTER THE TRAFFIC LANES IN A ONE HOUR PERIOD.
 - THE WORK ACTIVITY REQUIRES FREQUENT ENCR OACHMENT INTO THE LANE OPEN TO TRAFFIC.
 THE FLAGGER SHALL BE STATIONED APPROXIMATELY 100' (30 m) TO 200' (60 m) IN ADVANCE OF THE WORKERS.

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

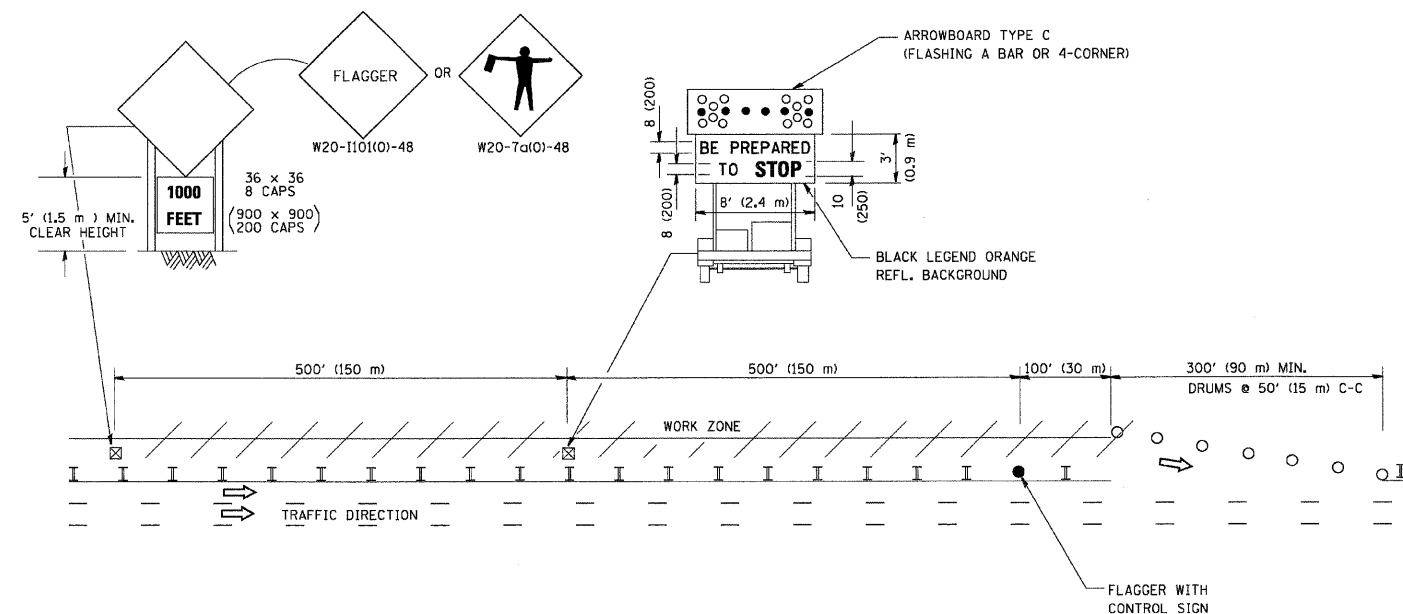
DESIGNED BY: DWS
 DRAWN BY:
 CHECKED BY:
 TC-17

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 PLOT SCALE = 50.000000 / 1 IN.
 USER NAME = baward

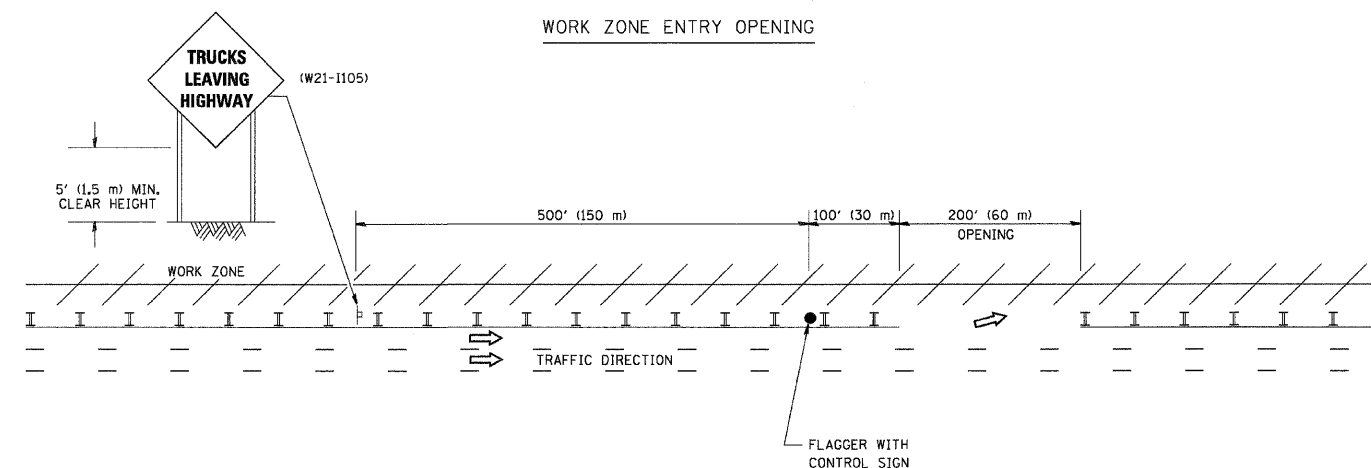
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| F.A. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | * | COOK | 37 | 23 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

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 |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

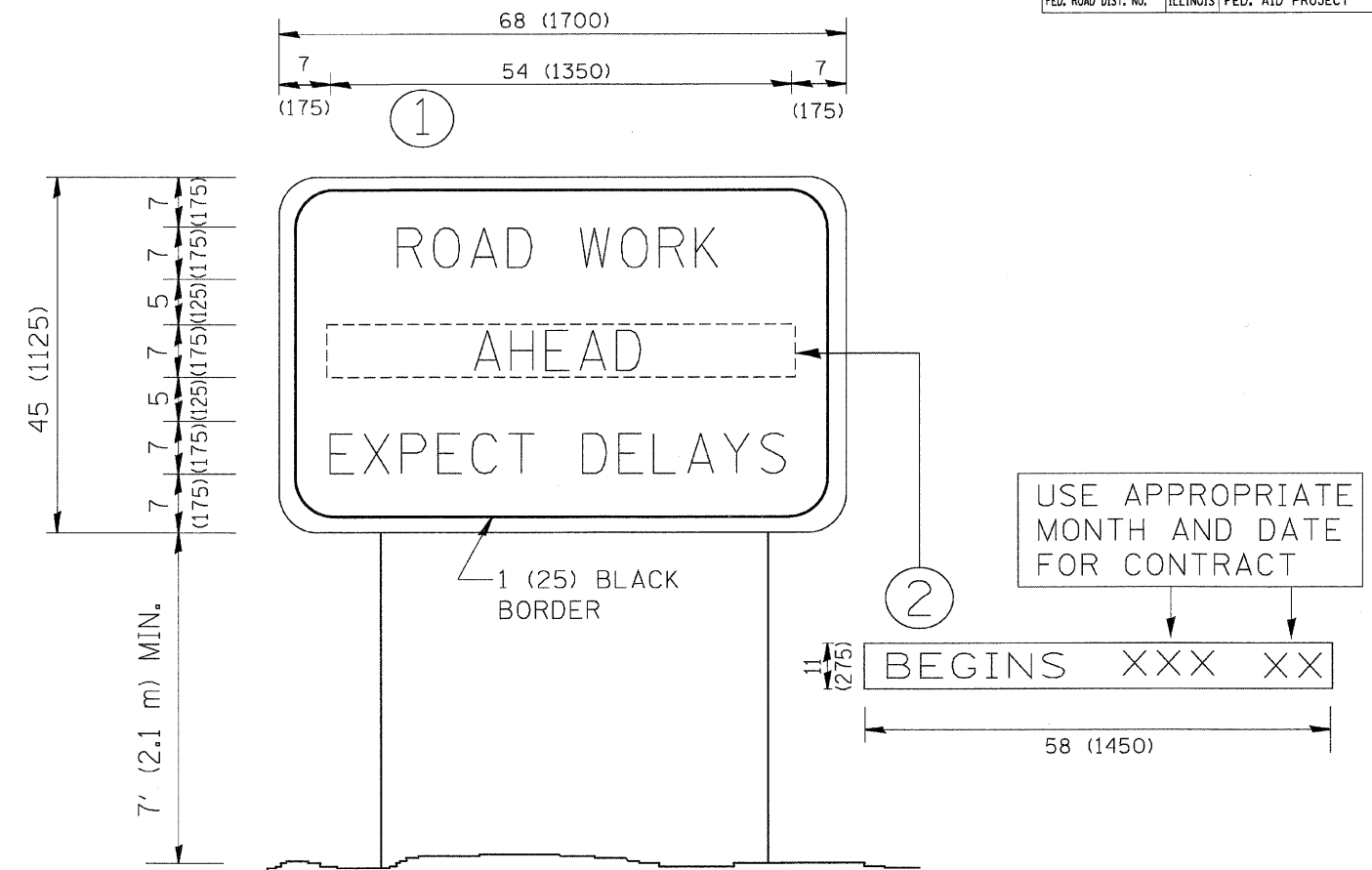
SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS

SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-18



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 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. JUCCIUS | 1-31-07 |
| | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION

ARTERIAL ROAD INFORMATION SIGN

SCALE: NONE

DRAWN BY DESIGN

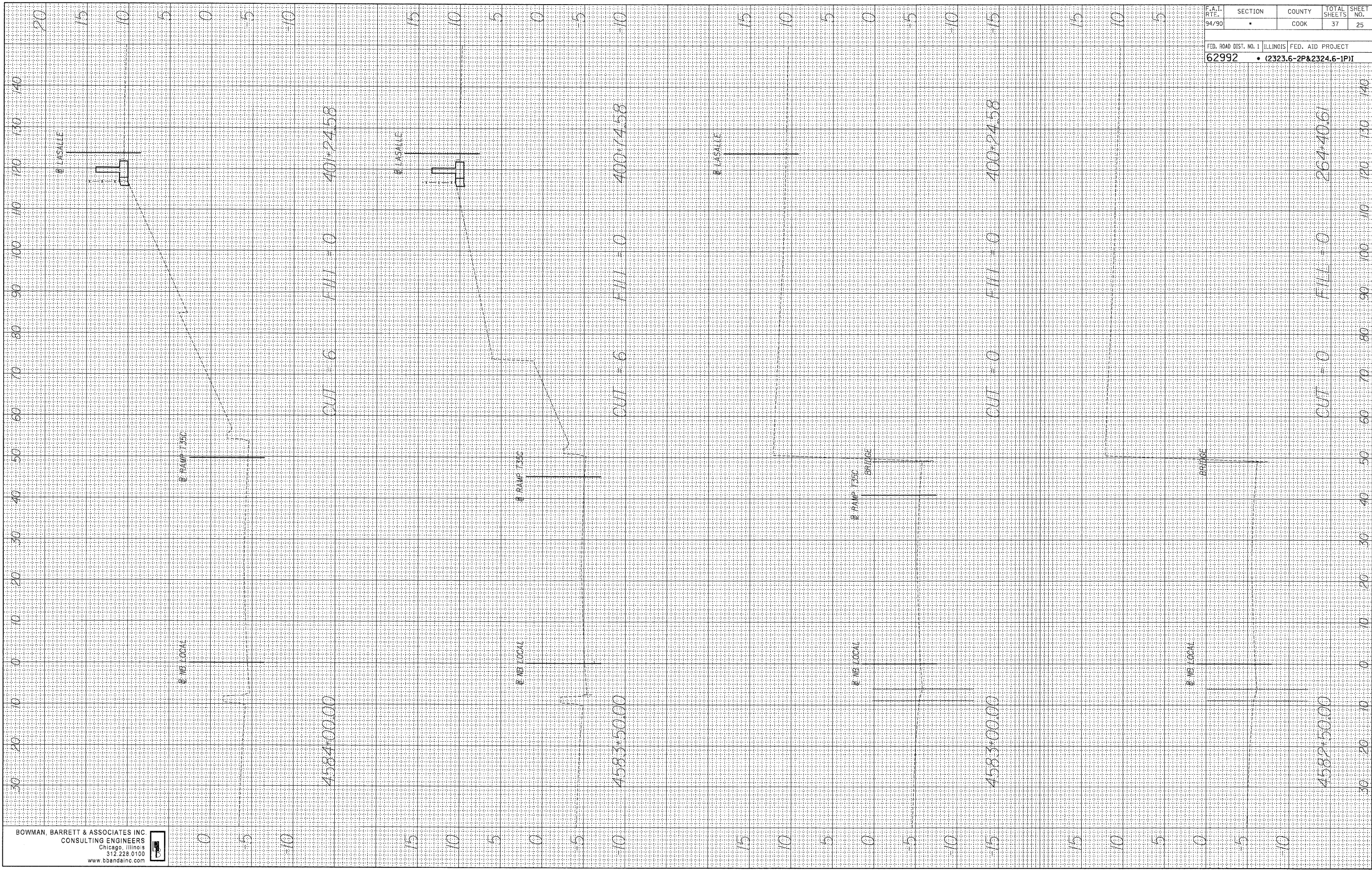
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TC22

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| FINAL SURVEY | SURVY | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| AREAS CHECKED | TEMPLATE | | |
| NO. | AREAS CHECKED | | |

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| ORIGINAL SURVEY | SURVY | BY | DATE |
| NOTE BOOK | PLOTTED | | |
| AREAS CHECKED | TEMPLATE | | |
| NO. | AREAS CHECKED | | |

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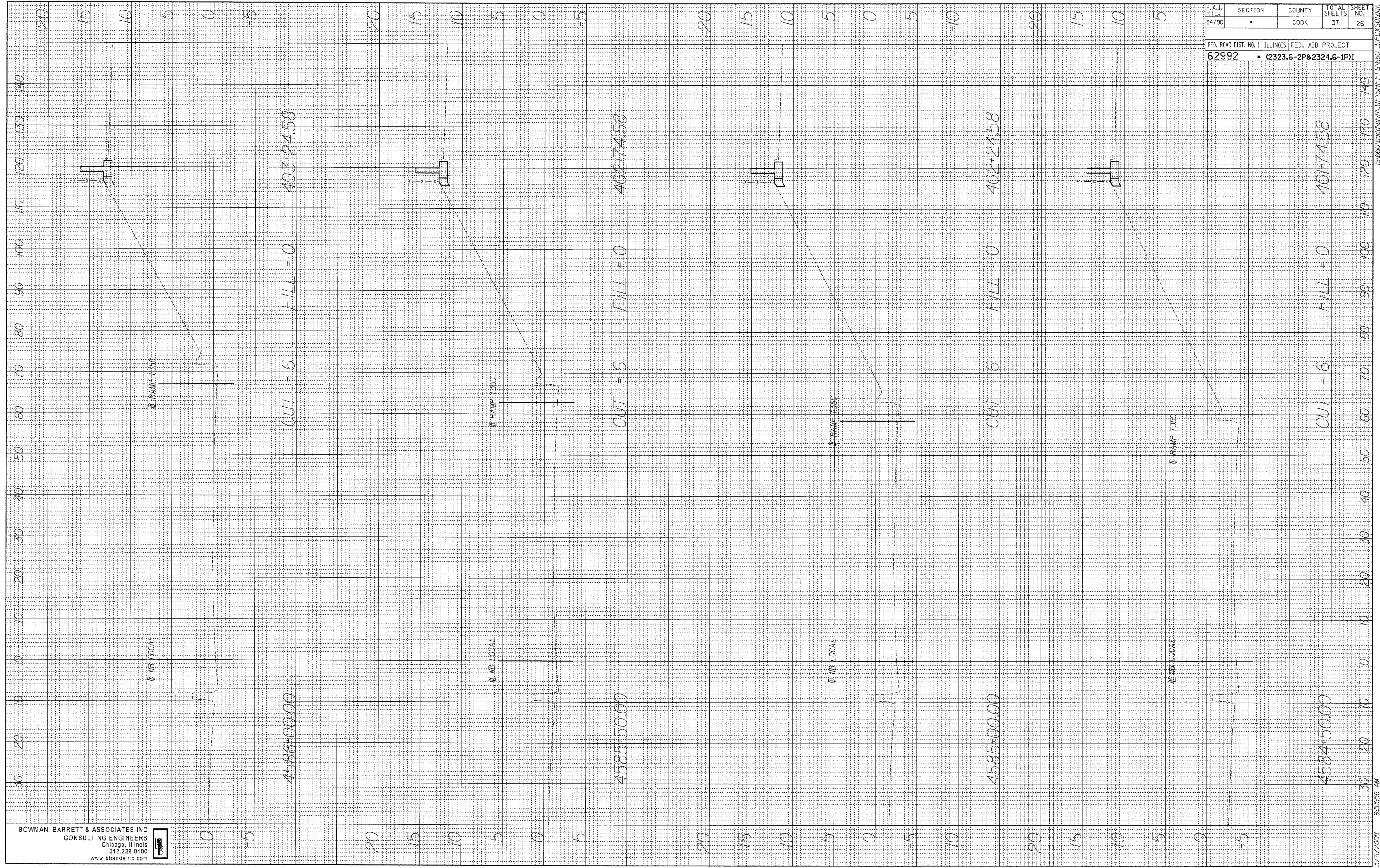


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| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | • | COOK | 37 | 25 |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P)I | | |

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| FINAL SURVEY NOTE BOOK NO. | SURVEY PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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|-------------------------------|---------------------------------------|----|------|
| ORIGINAL SURVEY NOTE BOOK NO. | SURVEY PLOTTED TEMPLATE AREAS CHECKED | BY | DATE |
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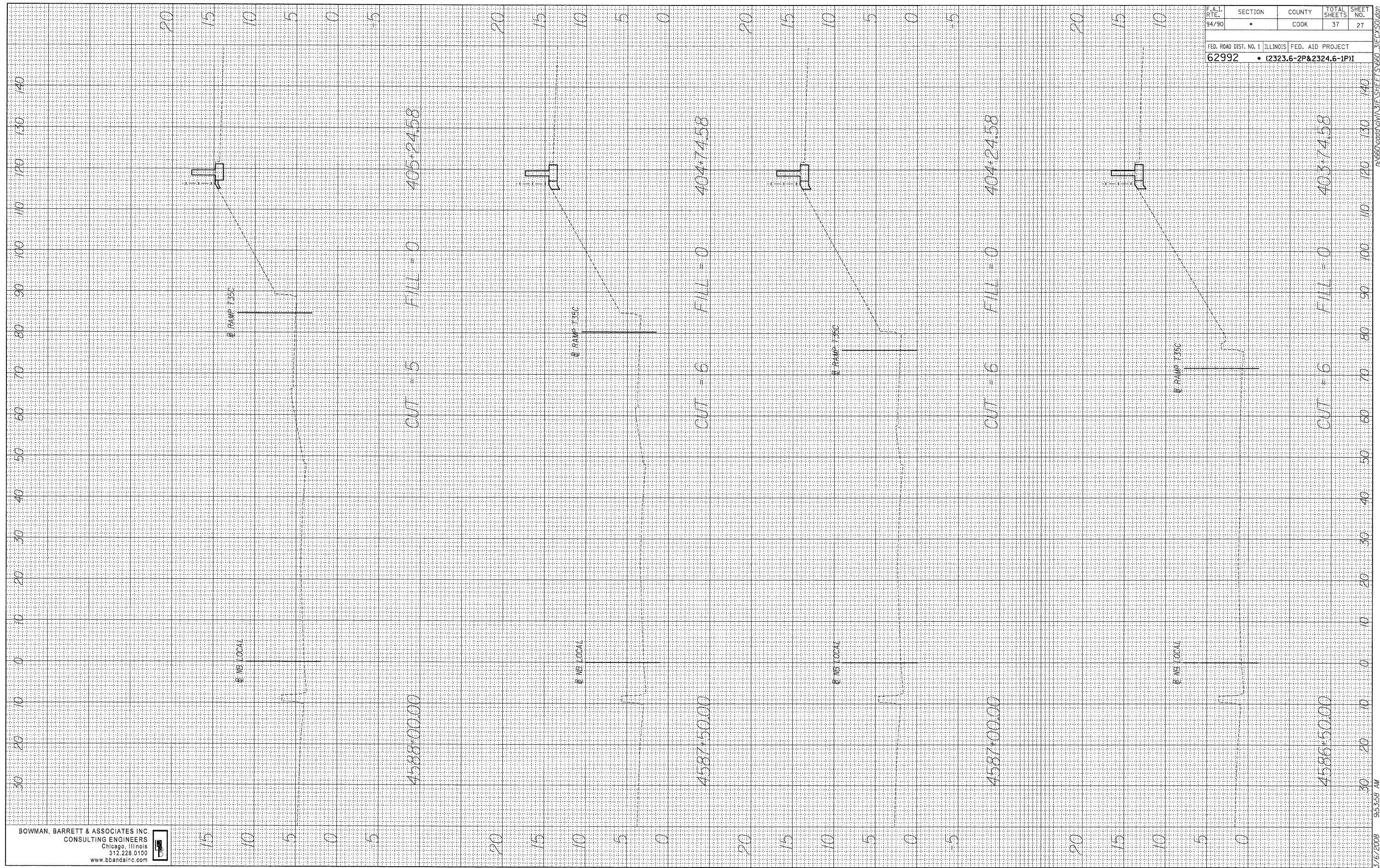
BOWMAN, BARRETT & ASSOCIATES INC
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 www.bbainc.com

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|-----------------------|-----------|---------------------------|-----------------|--------------|
| F.A.I. RTE. 94/90 | SECTION * | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 26 |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P) | | |

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| FINAL SURVEY NO. | CURVES PLOTTED | BY | DATE |
| NOTE BOOK | TEMPLATE | | |
| AREAS CHECKED | | | |

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| ORIGINAL SURVEY NO. | SPRINT PLOTTED | BY | DATE |
| NOTE BOOK | TEMPLATE | | |
| AREAS CHECKED | | | |



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|--------------------------------|-----------|--------------------------|-----------------|--------------|
| F.A.I. RTE. 94/90 | SECTION * | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 27 |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P)1 | | |

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ORIGINAL SURVEY PLOTTED AREAS CHECKED

DATE

BY

NO.

NOTE BOOK

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ORIGINAL SURVEY PLOTTED AREAS CHECKED

DATE

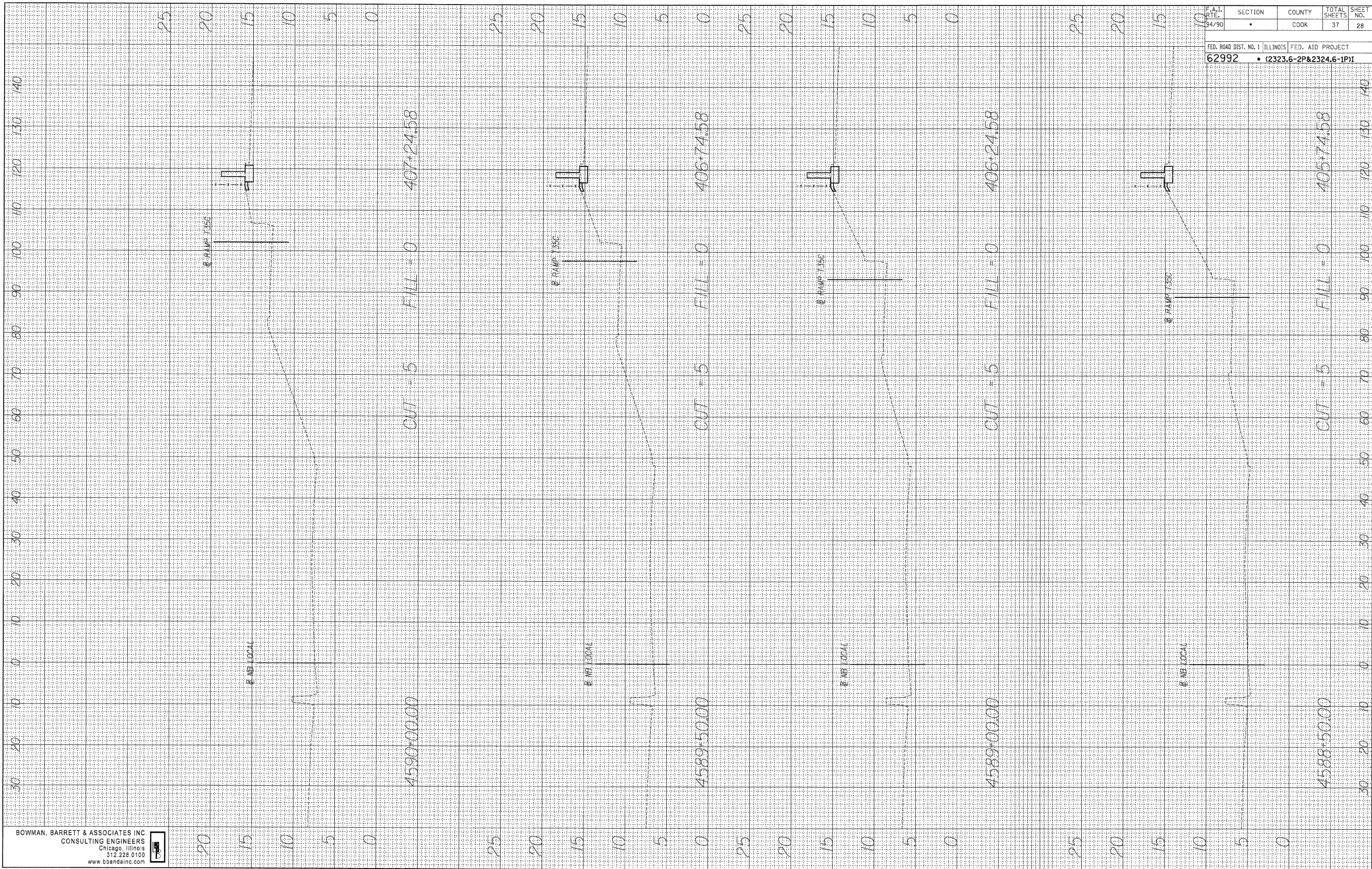
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NO.

NOTE BOOK

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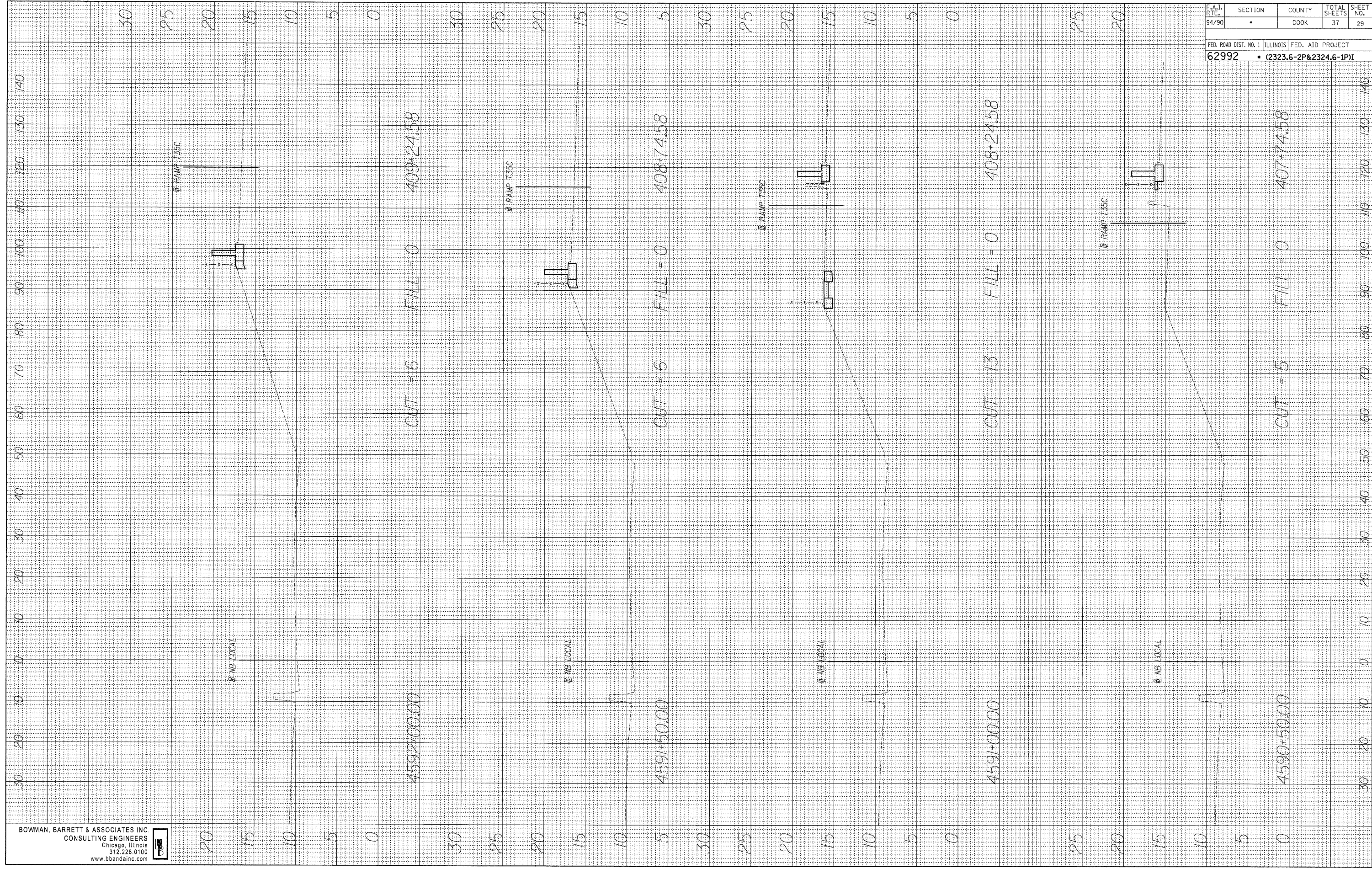


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|--------------------------------|-----------|--------------------------|-----------------|--------------|
| F.A.I. DIST. 94/90 | SECTION * | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 28 |
| FED. ROAD DIST. NO. 1 ILLINOIS | | FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P)1 | | |

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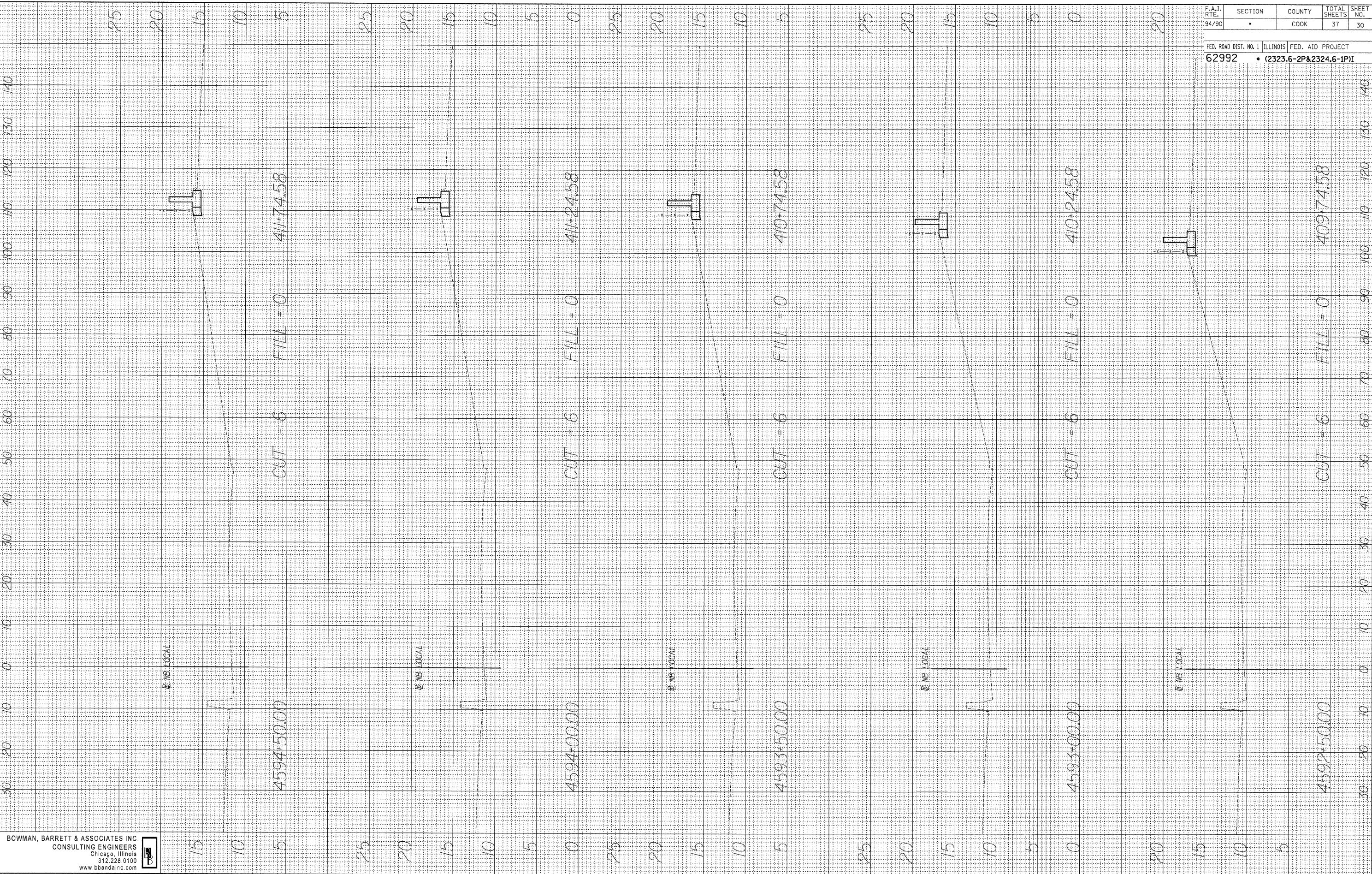


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|---|---------|--------|--------------|-----------|
| F.A.I. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 94/90 | * | COOK | 37 | 29 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P) | | | | |

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ORIGINAL SURVEY CHECKED BY DATE
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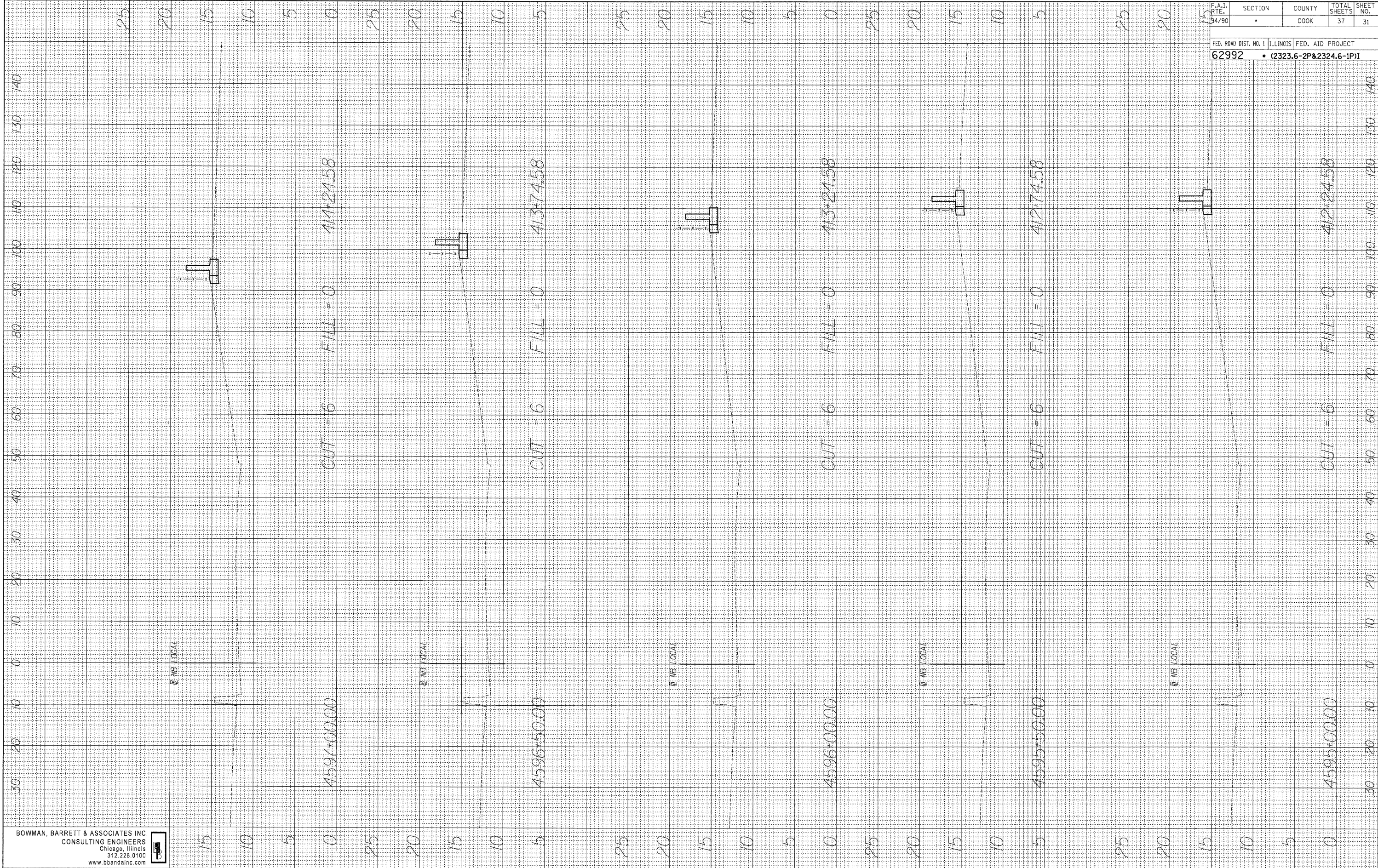
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| F.A.I. RTE. 94/90 | SECTION • | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 30 |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |
| 62992 | | • (2323.6-2P&2324.6-1P)1 | | |

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ORIGINAL SURVEY
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 NO. _____ BY _____ DATE _____

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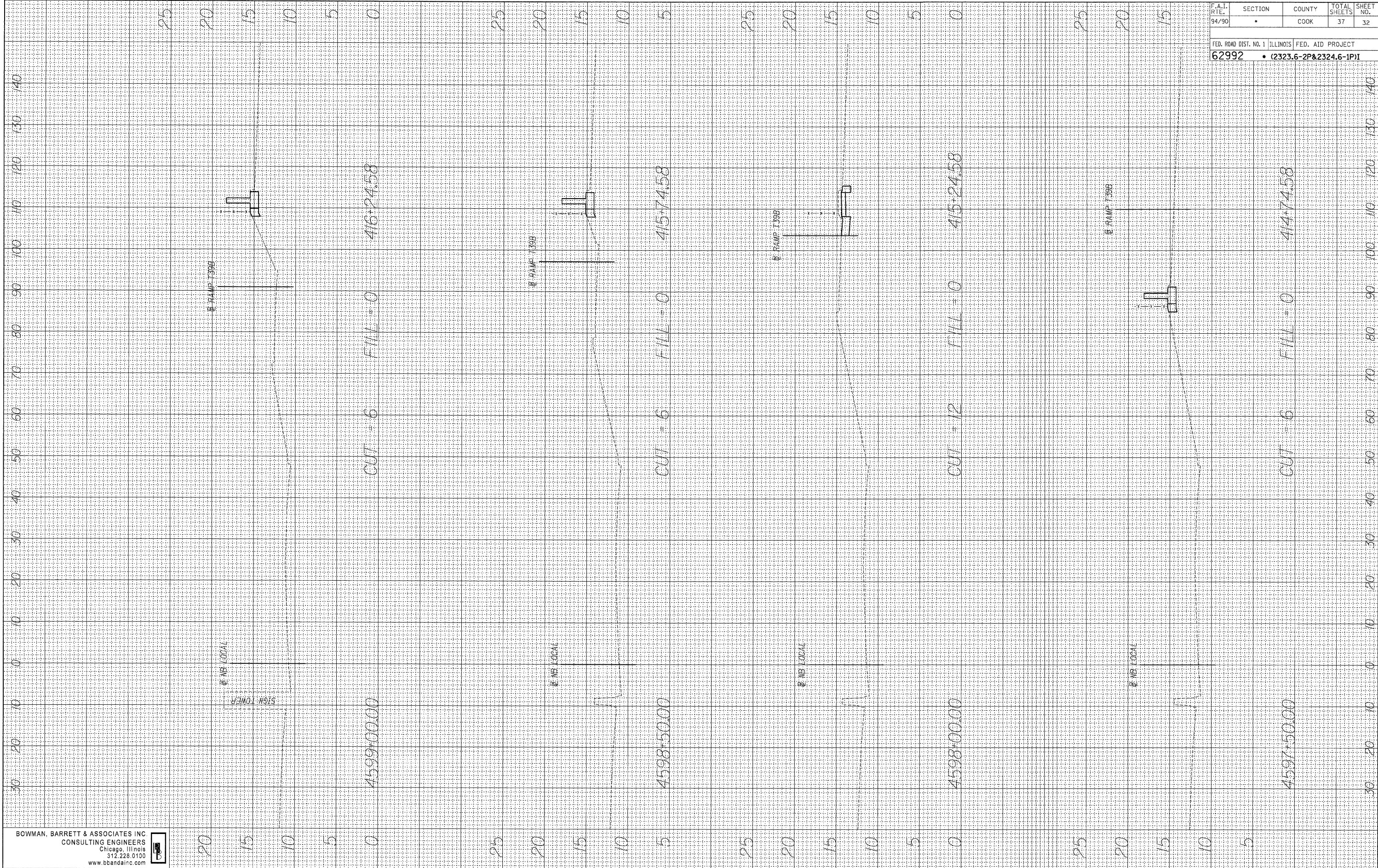
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| F.A.I. DIST. NO. 94/90 | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | COOK | 37 | 31 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P) | | | | |

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FINAL SURVEY NO. _____
 ORIGINAL SURVEY NO. _____
 DATE _____
 BY _____

ORIGINAL SURVEY NO. _____
 ORIGINAL SURVEY NO. _____
 DATE _____
 BY _____

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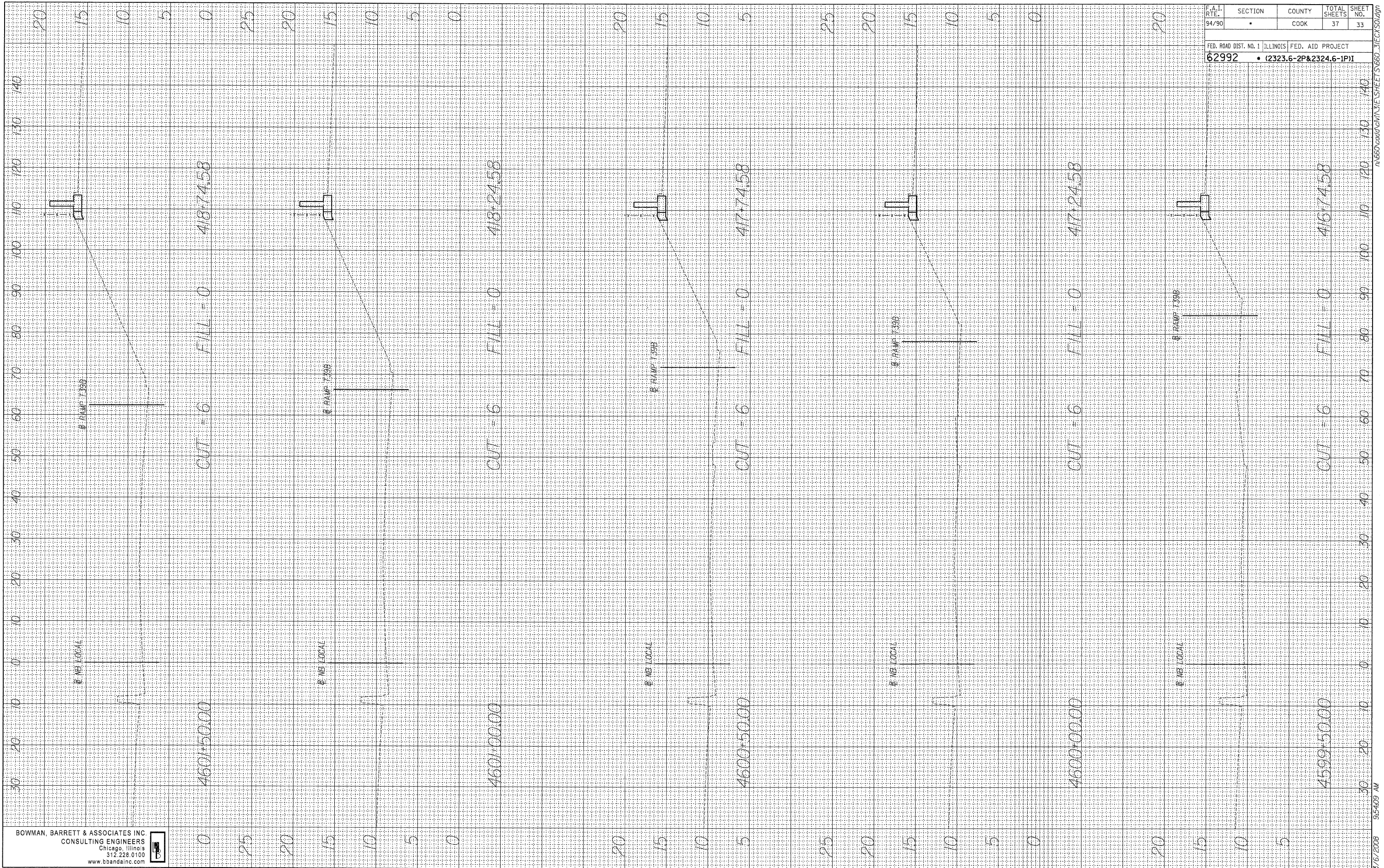
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| F.A.I. R.T.E. 94/90 | SECTION | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 32 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P1) | | | | |

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 NOTE BOOK NO. _____
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 FINISHED SURVEY NO. _____
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 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED _____
 BY _____ DATE _____

ORIGINAL SURVEY NO. _____
 SURVEY PLOTTED _____
 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED _____
 BY _____ DATE _____
 FINISHED SURVEY NO. _____
 SURVEY PLOTTED _____
 NOTE BOOK NO. _____
 TEMPLATE AREAS CHECKED _____
 BY _____ DATE _____

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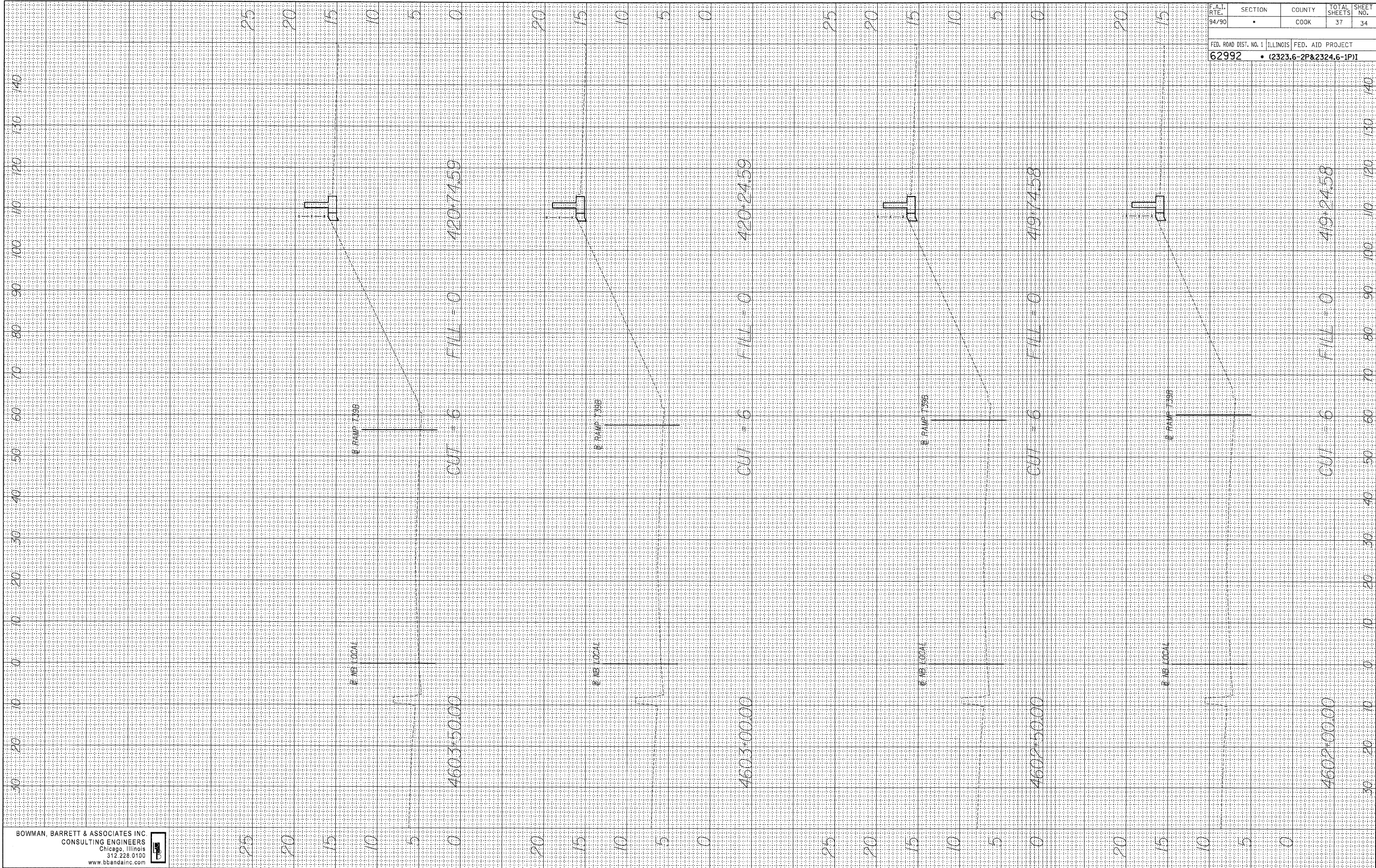
| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 94/90 | * | COOK | 37 | 33 |

| FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT |
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FINAL SURVEY NO. _____
 BY _____ DATE _____
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ORIGINAL SURVEY NO. _____
 BY _____ DATE _____
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 AREAS CHECKED _____

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| F.A.I. RTE. 94/90 | SECTION • | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 34 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P1) | | | | |

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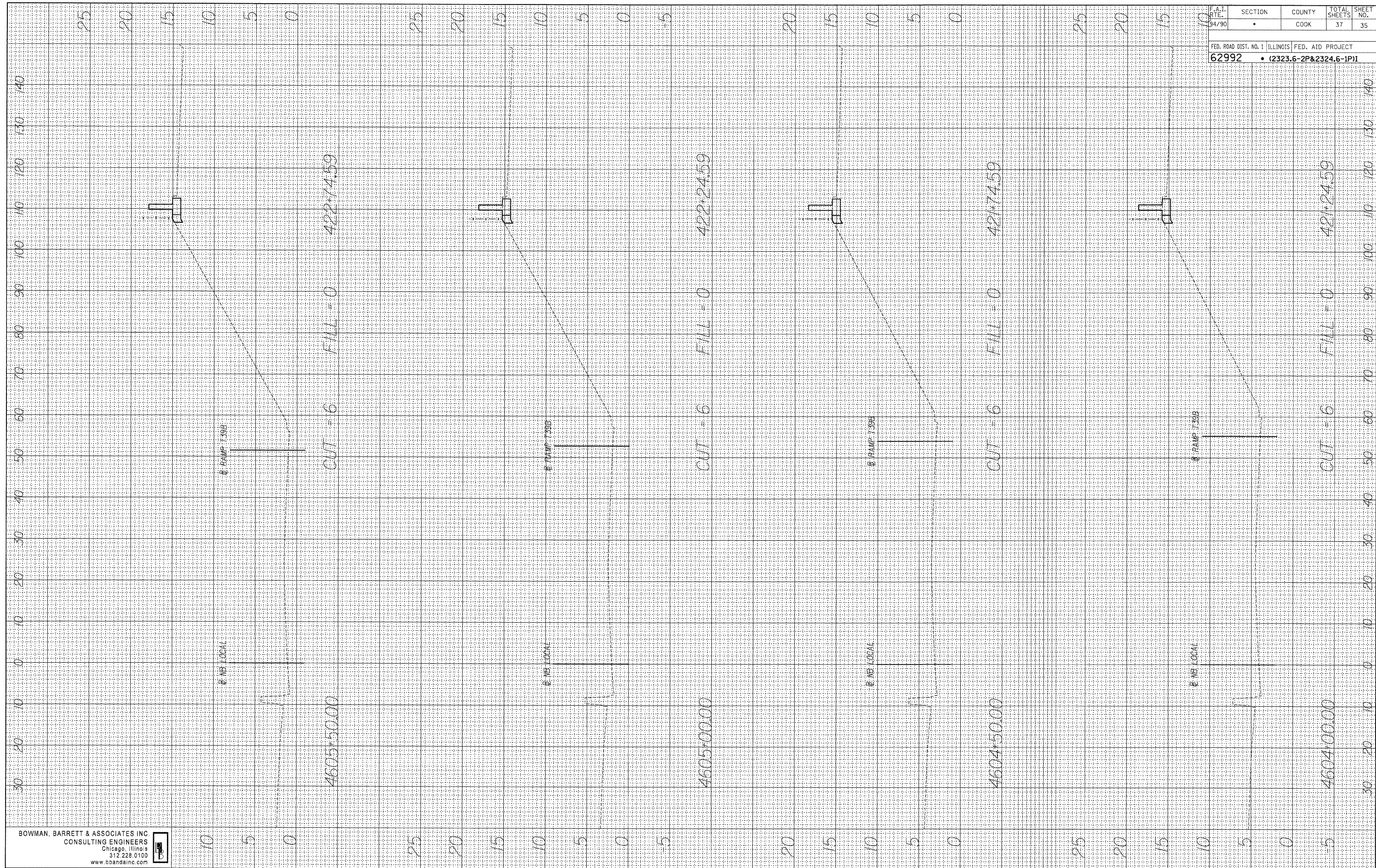
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BY _____ DATE _____

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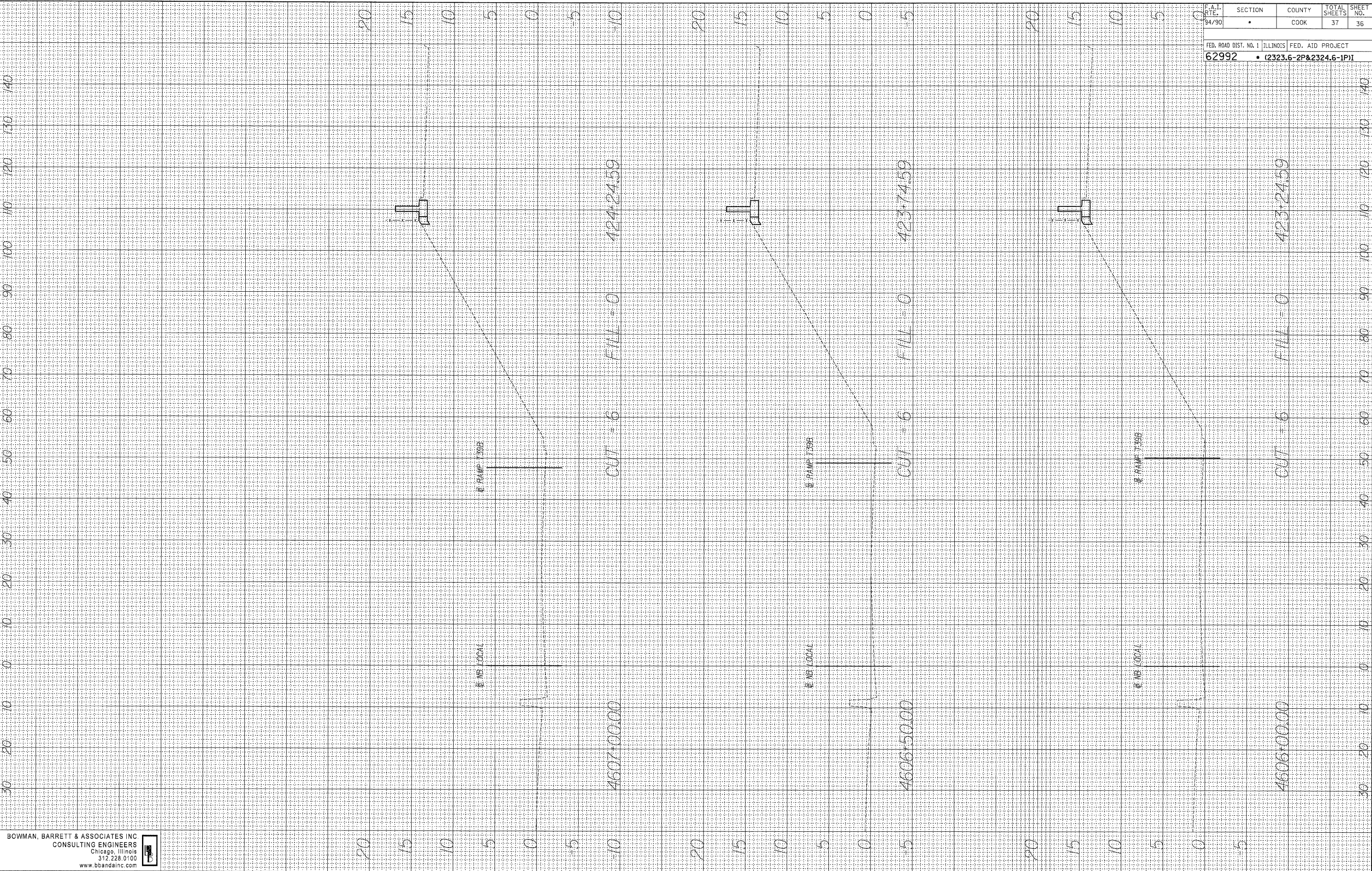


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| F.A.I. DATE: 9/4/90 | SECTION: * | COUNTY: COOK | TOTAL SHEETS: 37 | SHEET NO.: 35 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
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| ORIGINAL SURVEY NO. | DATE |
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| PLOTTED | |
| TEMPERATURE | |
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|---|---------|-------------|-----------------|--------------|
| F.A.I. RTE. 94/90 | SECTION | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 36 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P)I | | | | |

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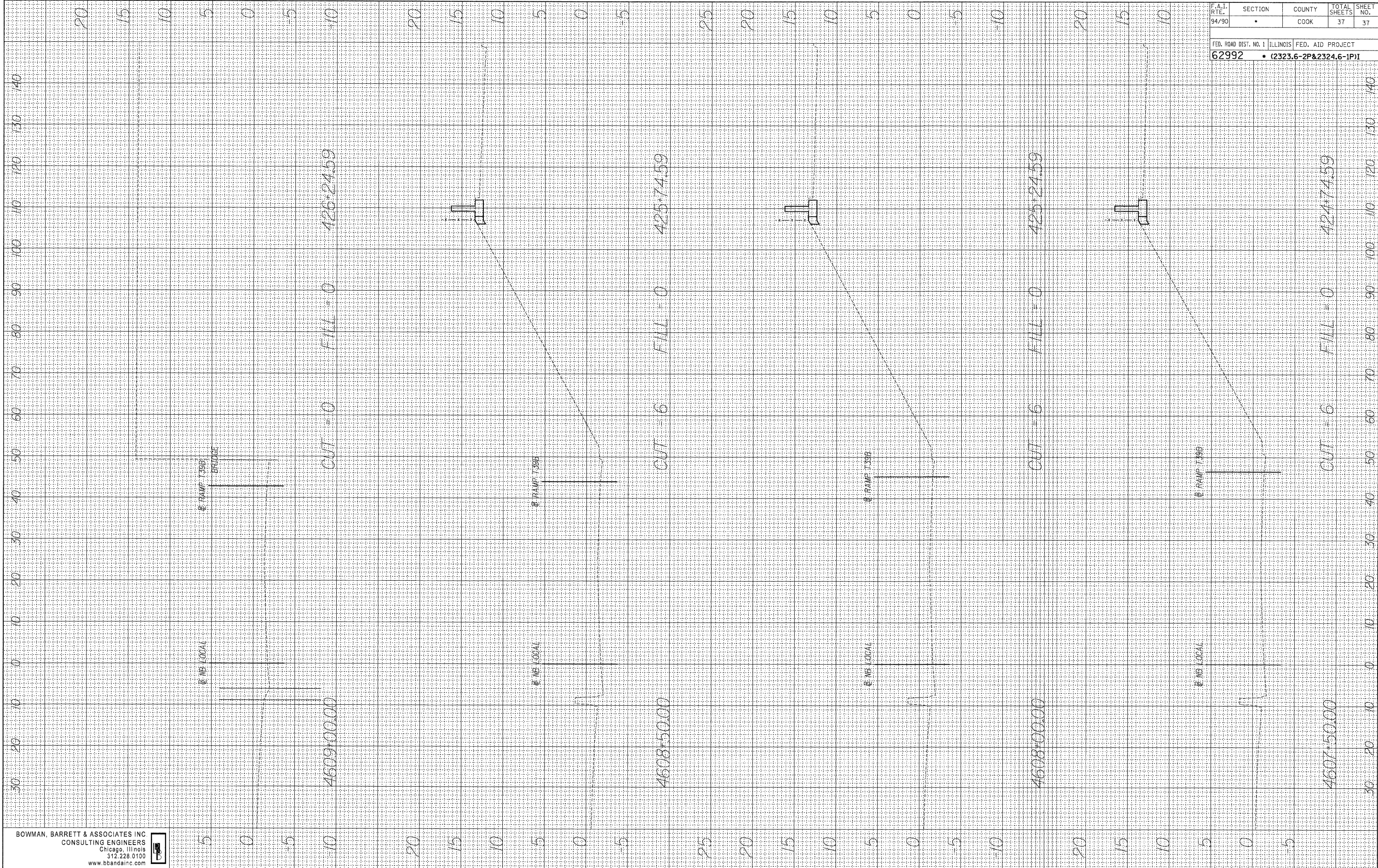


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FINAL SURVEY SURVEYED PLOTTED DATE
 NOTE BOOK TEMPLATE BY
 NO. AREAS CHECKED

ORIGINAL SURVEY SURVEYED PLOTTED DATE
 NOTE BOOK TEMPLATE BY
 NO. AREAS CHECKED

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|---|--------------|----------------|--------------------|-----------------|
| F.A.I. RTE. 94/90 | SECTION • | COUNTY COOK | TOTAL SHEETS 37 | SHEET NO. 37 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| 62992 • (2323.6-2P&2324.6-1P1) | | | | |

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