

BU-26 - TRAFFIC CONTROL, SIGNING AND PAVEMENT MARKING
...\\BU-26\\96833_GT026.dgn 8/1/2019 10:32:45 AM Derek.Johnson



LOCATION MAP

LATITUDE: 41°29'08" LONGITUDE: 81°37'22"



| | |
|-------------------------|-------|
| PORTION TO BE IMPROVED | ----- |
| INTERSTATE HIGHWAY | ----- |
| FEDERAL ROUTES | ----- |
| STATE ROUTES | ----- |
| COUNTY & TOWNSHIP ROADS | ----- |
| OTHER ROADS | ----- |

DESIGN DESIGNATION

| | |
|----------------------------------|--------------------------|
| CURRENT ADT (2017) | 35,820 |
| DESIGN YEAR ADT (2020) | 48,230 |
| DESIGN HOURLY VOLUME (2020) | 3,580 |
| DIRECTIONAL DISTRIBUTION | 58% |
| TRUCKS (24 HOUR B&C) | 6% |
| DESIGN SPEED | 40 MPH |
| LEGAL SPEED | 35 MPH |
| DESIGN FUNCTIONAL CLASSIFICATION | URBAN PRINCIPAL ARTERIAL |
| NHS PROJECT | NO |

DESIGN EXCEPTIONS

NONE

UNDERGROUND UTILITIES
CONTACT BOTH SERVICES TWO WORKING DAYS
BEFORE YOU DIG.

Ohio Utilities Protection Service
Call Before You Dig
1-800-362-2764
(Non-members must be called directly)

**OIL & GAS PRODUCERS
UNDERGROUND PROTECTION SERVICE**
1-800-925-0988

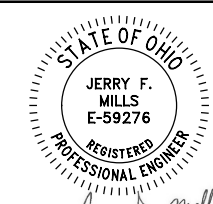


ENGINEERS SEAL:



SIGNED: *Derek J. Johnson*
DATE: 2019-08-02

ENGINEERS SEAL:



SIGNED: *Jerry F. Mills*
DATE: 2019-08-02

STATE OF OHIO
DEPARTMENT OF TRANSPORTATION
**CUY-IR490/ SR010-
2.09 / 19.28**
CITY OF CLEVELAND
CUYAHOGA COUNTY

INDEX OF SHEETS:

SEE SHEET 2

BU-26
TRAFFIC CONTROL:
SIGNING AND PAVEMENT MARKING

PLAN PREPARED BY:

Michael Baker
INTERNATIONAL

1111 SUPERIOR AVENUE EAST, SUITE 2300
CLEVELAND, OHIO 44114



DYNOTEC, INC.
2931 E. DUBLIN GRANVILLE ROAD, SUITE 200
COLUMBUS, OH 43231

| ODOT STANDARD CONSTRUCTION DRAWINGS | | | CITY OF CLEVELAND STANDARD CONSTRUCTION DRAWINGS | | ODOT SUPPLEMENTAL SPECIFICATIONS | SPECIAL PROVISIONS |
|-------------------------------------|----------|----------|---|-----------|--|-----------------------|
| TC-7.65 | 01/15/16 | TC-41.10 | 07/19/13 | TC-71.10 | 07/15/16 | |
| TC-12.30 | 10/18/13 | TC-41.20 | 10/18/13 | TC-72.20 | 07/15/16 | |
| TC-15.115 | 10/18/13 | TC-41.30 | 10/18/13 | | | |
| | | TC-41.40 | 10/18/13 | | | |
| TC-21.10 | 07/15/16 | TC-41.41 | 10/18/13 | | | |
| TC-21.20 | 07/15/16 | TC-42.10 | 10/18/13 | ITS-35.14 | 01/15/16 | |
| TC-21.50 | 07/15/16 | TC-42.20 | 10/18/13 | RM-4.4 | 07/18/14 | |
| TC-22.10 | 10/18/13 | | | | | |
| TC-22.20 | 01/17/14 | TC-51.11 | 01/15/16 | | | |
| | | TC-51.12 | 01/15/16 | MT-95.40 | 7/18/14 | |
| | | TC-52.10 | 10/18/13 | MT-95.45 | 7/15/16 | |
| | | TC-52.20 | 07/15/16 | MT-99.60 | 7/15/16 | |
| | | | | | | |
| | | TC-61.10 | 01/17/14 | | | |
| | | TC-65.10 | 01/17/14 | | | |
| | | TC-65.11 | 07/15/16 | | | |

PROJECT DESCRIPTION

THIS PROJECT CONSISTS OF THE CONSTRUCTION OF 2.09 MILES OF A NEW TWO- TO THREE-LANE BOULEVARD FROM E. 55TH ST. TO E. 93RD ST. WORK INCLUDES PAVEMENT, RAILROAD, STRUCTURES, DRAINAGE, WATERWORK, LIGHTING, POWER DISTRIBUTION, TRAFFIC CONTROL, LANDSCAPING, AND ADJUSTMENT OF EXISTING UTILITIES.

EARTH DISTURBED AREAS

PROJECT EARTH DISTURBED AREA: 87.2 ACRES
ESTIMATED CONTRACTOR EARTH DISTURBED AREA: 0 ACRES
NOTICE OF INTENT EARTH DISTURBED AREA: 87.2 ACRES
(AREA SERVICED BY COMBINED SEWER)

2016 SPECIFICATIONS

THE STANDARD SPECIFICATIONS OF THE STATE OF OHIO, DEPARTMENT OF TRANSPORTATION, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED IN THE PROPOSAL SHALL GOVERN THIS IMPROVEMENT.

| 0 | 2019-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

CONSTRUCTION PROJECT NO.

17-3000

RAILROAD INVOLVEMENT

NORFOLK SOUTHERN
GCRTA

CUY-IR490/ SR010-

2.09 / 19.28

FEDERAL PROJECT NO.

E140 (249)

PID NO.

96833

RECORD PLANS

RECORD PLANS

| ISSUE NO. | RECORD DATE | PAGE NO. | SHEET TITLE |
|-----------|-------------|----------|---|
| 0 | 2019-08-02 | 1 | TITLE SHEET |
| 3 | 2024-09-10 | 2 | INDEX OF SHEETS (1 OF 2) |
| 0 | 2019-08-02 | 3 | INDEX OF SHEETS (2 OF 2) |
| 0 | 2019-08-02 | 4 | TRAFFIC CONTROL GENERAL NOTES |
| 1 | 2024-09-10 | 5 | PAVEMENT MARKING PLAN - OC BLVD - BEGIN TO STA 118+00 |
| 1 | 2024-09-10 | 6 | PAVEMENT MARKING PLAN - OC BLVD - STA 118+00 TO STA 128+00 |
| 1 | 2024-09-10 | 7 | PAVEMENT MARKING PLAN - OC BLVD - STA 128+00 TO STA 138+00 |
| 0 | 2019-08-02 | 8 | PAVEMENT MARKING PLAN - OC BLVD - STA 138+00 TO STA 148+00 |
| 1 | 2024-09-10 | 9 | PAVEMENT MARKING PLAN - OC BLVD - STA 148+00 TO STA 158+00 |
| 0 | 2019-08-02 | 10 | PAVEMENT MARKING PLAN - OC BLVD - STA 158+00 TO STA 168+00 |
| 0 | 2019-08-02 | 11 | PAVEMENT MARKING PLAN - OC BLVD - STA 168+00 TO STA 178+00 |
| 0 | 2019-08-02 | 12 | PAVEMENT MARKING PLAN - OC BLVD - STA 178+00 TO STA 188+00 |
| 0 | 2019-08-02 | 13 | PAVEMENT MARKING PLAN - OC BLVD - STA 188+00 TO STA 198+00 |
| 0 | 2019-08-02 | 14 | PAVEMENT MARKING PLAN - OC BLVD - STA 198+00 TO STA 208+00 |
| 0 | 2019-08-02 | 15 | PAVEMENT MARKING PLAN - OC BLVD - STA 208+00 TO STA 218+00 |
| 0 | 2019-08-02 | 16 | PAVEMENT MARKING PLAN - OC BLVD - STA 218+00 TO STA 229+00 |
| 1 | 2024-09-10 | 17 | PAVEMENT MARKING PLAN - E. 55TH ST |
| 1 | 2024-09-10 | 18 | PAVEMENT MARKING PLAN - KINSMAN RD |
| 0 | 2019-08-02 | 19 | PAVEMENT MARKING PLAN - E. 79TH ST |
| 0 | 2019-08-02 | 20 | PAVEMENT MARKING PLAN - BUCKEYE RD |
| 0 | 2019-08-02 | 21 | PAVEMENT MARKING PLAN - WOODLAND AVE |
| 0 | 2019-08-02 | 22 | PAVEMENT MARKING PLAN - E. 93RD ST |
| 0 | 2019-08-02 | 23 | EXISTING SIGNING PLAN - OC BLVD - BEGIN TO STA. 118+00 |
| 0 | 2019-08-02 | 24 | EXISTING SIGNING PLAN - OC BLVD - STA. 118+00 TO STA. 128+00 |
| 0 | 2019-08-02 | 25 | EXISTING SIGNING PLAN - E. 55TH ST. - STA. 9+50 TO STA. 17+50 |
| 0 | 2019-08-02 | 26 | EXISTING SIGNING PLAN - OC BLVD - STA. 128+00 TO STA. 138+00 |
| 0 | 2019-08-02 | 27 | EXISTING SIGNING PLAN - OC BLVD - STA. 138+00 TO STA. 148+00 |
| 1 | 2024-09-10 | 28 | EXISTING SIGNING PLAN - OC BLVD - STA. 148+00 TO STA. 158+00 |
| 0 | 2019-08-02 | 29 | EXISTING SIGNING PLAN - OC BLVD - STA. 158+00 TO STA. 168+00 |
| 0 | 2019-08-02 | 30 | EXISTING SIGNING PLAN - OC BLVD - STA. 168+00 TO STA. 178+00 |
| 0 | 2019-08-02 | 31 | EXISTING SIGNING PLAN - OC BLVD - STA. 178+00 TO STA. 188+00 |
| 0 | 2019-08-02 | 32 | EXISTING SIGNING PLAN - OC BLVD - STA. 188+00 TO STA. 198+00 |
| 0 | 2019-08-02 | 33 | EXISTING SIGNING PLAN - OC BLVD - STA. 198+00 TO STA. 208+00 |
| 0 | 2019-08-02 | 34 | EXISTING SIGNING PLAN - BUCKEYE RD. - STA. 32+50 TO END |
| 0 | 2019-08-02 | 35 | EXISTING SIGNING PLAN - OC BLVD - STA 208+00 TO STA. 218+00 |
| 0 | 2019-08-02 | 36 | EXISTING SIGNING PLAN - OC BLVD - STA. 218+00 TO STA. 228+00 |
| 1 | 2024-09-10 | 37 | SIGNING PLAN - OC BLVD - BEGIN TO STA. 118+00 |
| 1 | 2024-09-10 | 38 | SIGNING PLAN - OC BLVD - STA. 118+00 TO STA. 128+00 |
| 1 | 2024-09-10 | 39 | SIGNING PLAN - OC BLVD - STA. 128+00 TO STA. 138+00 |
| 0 | 2019-08-02 | 40 | SIGNING PLAN - OC BLVD - STA. 138+00 TO STA. 148+00 |
| 2 | 2024-09-10 | 41 | SIGNING PLAN - OC BLVD - STA. 148+00 TO STA. 158+00 |
| 0 | 2019-08-02 | 42 | SIGNING PLAN - OC BLVD - STA. 158+00 TO STA. 168+00 |
| 1 | 2020-07-24 | 43 | SIGNING PLAN - OC BLVD - STA. 168+00 TO STA. 178+00 |
| 1 | 2020-07-24 | 44 | SIGNING PLAN - OC BLVD - STA. 178+00 TO STA. 188+00 |
| 0 | 2019-08-02 | 45 | SIGNING PLAN - OC BLVD - STA. 188+00 TO STA. 198+00 |
| 1 | 2020-07-24 | 46 | SIGNING PLAN - OC BLVD - STA. 198+00 TO STA. 208+00 |
| 1 | 2020-07-24 | 47 | SIGNING PLAN - OC BLVD - STA. 208+00 TO STA. 218+00 |
| 1 | 2020-07-24 | 48 | SIGNING PLAN - OC BLVD - STA. 218+00 TO END |
| 0 | 2019-08-02 | 49 | SIGNING PLAN - E. 89TH ST. & FREDERICK AVE. |
| 0 | 2019-08-02 | 50 | SIGNING PLAN - BUCKEYE RD. & E. 89TH ST. |
| 1 | 2024-09-10 | 51 | SIGNING PLAN - E. 55TH ST. |
| 0 | 2019-08-02 | 52 | TRAILBLAZING SIGNS - OC BLVD - STA. 229+50 TO STA. 241+00 |
| 0 | 2019-08-02 | 53 | TRAILBLAZING SIGNS - OC BLVD - STA. 241+00 TO STA. 250+00 |
| 0 | 2019-08-02 | 54 | TRAILBLAZING SIGNS - OC BLVD - FROM NORMAN AVE TO CARNGIE AVE |
| 0 | 2019-08-02 | 55 | TRAILBLAZING SIGNS - EUCLID AVE |

| ISSUE NO. | RECORD DATE | PAGE NO. | SHEET TITLE |
|-----------|-------------|----------|--|
| 0 | 2019-08-02 | 56 | TRAILBLAZING SIGNS - CHESTER AVE |
| 0 | 2019-08-02 | 57 | SPECIAL SIGNING DETAILS |
| 0 | 2019-08-02 | 58 | GUIDE SIGN PLAN - SCHEMATIC LAYOUT |
| 1 | 2024-09-10 | 59 | GUIDE SIGN PLAN - ONTARIO STREET & CARNEGIE AVENUE |
| 1 | 2020-07-24 | 60 | GUIDE SIGN PLAN - ORANGE AVENUE & E. 9TH STREET |
| 0 | 2019-08-02 | 61 | GUIDE SIGN PLAN - ORANGE AVENUE & E. 14TH STREET |
| 1 | 2024-09-10 | 62 | GUIDE SIGN PLAN - I-77 & WOODLAND AVENUE |
| 3 | 2024-09-10 | 63 | GUIDE SIGN PLAN - I-77 & E. 30TH STREET |
| 1 | 2020-12-14 | 64 | GUIDE SIGN PLAN - I-77 & E. 37TH STREET |
| 0 | 2019-08-02 | 65 | GUIDE SIGN PLAN - I-77 |
| 0 | 2019-08-02 | 66 | GUIDE SIGN PLAN - I-77 & I-490 |
| 0 | 2019-08-02 | 67 | GUIDE SIGN PLAN - I-77 & BROADWAY AVENUE |
| 1 | 2024-09-10 | 68 | GUIDE SIGN PLAN - I-77 |
| 0 | 2019-08-02 | 69 | GUIDE SIGN PLAN - I-77 & PERSHING AVENUE |
| 0 | 2019-08-02 | 70 | GUIDE SIGN PLAN - I-77 |
| 0 | 2019-08-02 | 71 | GUIDE SIGN PLAN - I-77 & FLEET AVE. |
| 0 | 2019-08-02 | 72 | GUIDE SIGN PLAN - I-490 |
| 0 | 2019-08-02 | 73 | GUIDE SIGN PLAN - I-490 & BROADWAY AVENUE |
| 1 | 2024-09-10 | 74 | GUIDE SIGN PLAN - I-490 |
| 0 | 2019-08-02 | 75 | GUIDE SIGN PLAN - I-490 & E. 55TH STREET |
| 1 | 2024-09-10 | 76 | SIGN ELEVATIONS - SIGN Q |
| 1 | 2024-09-10 | 77 | SIGN ELEVATIONS - SIGN R |
| 1 | 2024-09-10 | 78 | SIGN ELEVATIONS - SIGN K |
| 0 | 2019-08-02 | 79 | SIGN ELEVATIONS - SIGN AE |
| 0 | 2019-08-02 | 80 | SIGN ELEVATIONS - SIGN S |
| 1 | 2024-09-10 | 81 | SIGN ELEVATIONS - SIGNS L, N |
| 0 | 2019-08-02 | 82 | SIGN ELEVATIONS - SIGN AD |
| 1 | 2020-12-14 | 83 | SIGN ELEVATIONS - SIGN M, MI |
| 0 | 2019-08-02 | 84 | SIGN ELEVATIONS - SIGNS AC, AF |
| 0 | 2019-08-02 | 85 | SIGN ELEVATIONS - SIGNS O, T |
| 0 | 2019-08-02 | 86 | SIGN ELEVATIONS - SIGN P |
| 0 | 2019-08-02 | 87 | SIGN ELEVATIONS - SIGN F |
| 0 | 2019-08-02 | 88 | SIGN ELEVATIONS - SIGN D |
| 0 | 2019-08-02 | 89 | SIGN ELEVATIONS - SIGN E, J |
| 1 | 2024-09-10 | 90 | SIGN ELEVATIONS - SIGN C |
| 0 | 2019-08-02 | 91 | SIGN ELEVATIONS - SIGN AN |
| 1 | 2024-09-10 | 92 | SIGN ELEVATIONS - SIGN B |
| 0 | 2019-08-02 | 93 | SIGN ELEVATIONS - SIGN A |
| 0 | 2019-08-02 | 94 | SIGN ELEVATIONS - SIGN G |
| 0 | 2019-08-02 | 95 | SIGN ELEVATIONS - SIGN H |
| 0 | 2019-08-02 | 96 | SIGN ELEVATIONS - SIGN AA |
| 1 | 2024-09-10 | 97 | SIGN ELEVATIONS - SIGN Y |
| 0 | 2019-08-02 | 98 | SIGN ELEVATIONS - SIGNS U, V |
| 0 | 2019-08-02 | 99 | SIGN ELEVATIONS - SIGNS W, X |
| 0 | 2019-08-02 | 100 | SIGN ELEVATIONS - SIGN Z, AQ, AS |
| 1 | 2020-12-14 | 101 | SIGN ELEVATIONS - SIGN AR |
| 0 | 2019-08-02 | 102 | GUIDE SIGN FABRICATION DETAILS - OH-A, CL-B |
| 0 | 2019-08-02 | 103 | GUIDE SIGN FABRICATION DETAILS - OH-AN, OH-C |
| 0 | 2019-08-02 | 104 | GUIDE SIGN FABRICATION DETAILS - OH-D, GM-E |
| 0 | 2019-08-02 | 105 | GUIDE SIGN FABRICATION DETAILS - OH-F, OH-G |
| 0 | 2019-08-02 | 106 | GUIDE SIGN FABRICATION DETAILS - OH-H, OH-K |
| 1 | 2020-12-14 | 107 | GUIDE SIGN FABRICATION DETAILS - CL-L, OH-M |
| 1 | 2020-12-14 | 108 | GUIDE SIGN FABRICATION DETAILS - CL-N, OH-MI, CL-O |
| 0 | 2019-08-02 | 109 | GUIDE SIGN FABRICATION DETAILS - OH-P, OH-Q, OH-R |
| 0 | 2019-08-02 | 110 | GUIDE SIGN FABRICATION DETAILS - OH-S, CL-T, OH-AR |

| 3 | 2024-09-10 | RECORD DRAWINGS |
|--------------|------------|-----------------|
| 2 | 2020-12-14 | DC048 |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

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| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

ITEM 630 - SIGN, STREET NAME, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING STREET NAME SIGNS FOR ASSOCIATED MOUNTING IN ACCORDANCE WITH PLAN DETAILS AT LOCATIONS SPECIFIED IN THE PLAN.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 630, EACH, SIGN, STREET NAME, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR COMPLETION OF THIS ITEM.

SEE SHEET 57 FOR DETAILS AND SPECIFICATIONS.

ITEM 630 - SIGNING MISC.: SIGN, MOUNTING ASSEMBLY, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING MOUNTING HARDWARE FOR THE INSTALLATION OF STREET NAME SIGNS IN ACCORDANCE WITH PLAN DETAILS AT LOCATIONS SPECIFIED IN THE PLAN.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 630, EACH, SIGNING MISC.: SIGN MOUNTING ASSEMBLY, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR COMPLETION OF THIS ITEM.

SEE SHEET 57 FOR DETAILS AND SPECIFICATIONS.

ITEM 630 - SIGN, DOUBLE FACED, STREET NAME, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING STREET NAME, DOUBLE FACED, SIGNS FOR ASSOCIATED MOUNTING IN ACCORDANCE WITH PLAN DETAILS AT LOCATIONS SPECIFIED IN THE PLAN. SIGNS SHALL INCLUDE NECESSARY MOUNTING HARDWARE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 630, EACH, SIGN, DOUBLE FACED, STREET NAME, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR COMPLETION OF THIS ITEM.

SEE SHEET 57 FOR DETAILS AND SPECIFICATIONS.

POINTS OF CONTACT

POINTS OF CONTACT FOR COORDINATION OF SIGNING WORK ARE:

FRANK KONOPKA
SIGN COORDINATOR
ODOT DISTRICT 12
5500 TRANSPORTATION BLVD
GARFIELD HEIGHTS, OH 44125
(216) 584-2105
Frank.Konopka@dot.ohio.gov

ANDY CROSS
CITY OF CLEVELAND
DIVISION OF TRAFFIC ENGINEERING
601 LAKESIDE AVENUE
CLEVELAND, OH 44114
(216) 664-3197
ACross@city.cleveland.oh.us

ITEM 630 - SIGNING MISC.: RTA SIGN, DOUBLE FACED, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND THE INSTALLING RTA SIGNS FOR ASSOCIATED MOUNTING IN ACCORDANCE WITH PLAN DETAILS AT LOCATIONS SPECIFIED IN THE PLAN. SIGNS SHALL INCLUDE NECESSARY MOUNTING HARDWARE.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 630, EACH, SIGNING MISC.: RTA SIGN, DOUBLEFACED, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR COMPLETION OF THIS ITEM.

SEE SHEET 57 FOR DETAILS AND SPECIFICATIONS.

ITEM 630 - SIGNING MISC.: RTA POST, 2" ROUND, AS PER PLAN

THIS WORK SHALL CONSIST OF FURNISHING AND INSTALLING RTA POSTS, 2" ROUND IN ACCORDANCE WITH PLAN DETAILS AT LOCATIONS SPECIFIED IN THE PLAN.

PAYMENT FOR THE ABOVE WORK SHALL BE MADE AT THE UNIT BID PRICE FOR ITEM 630, EACH, SIGNING MISC.: RTA POST, 2" ROUND, AS PER PLAN AND SHALL INCLUDE ALL LABOR, TOOLS, EQUIPMENT AND MATERIALS NECESSARY FOR COMPLETION OF THIS ITEM.

SEE SHEET 57 FOR DETAILS AND SPECIFICATIONS.

REMOVAL AND DISPOSAL

THE DBT SHALL REMOVE AND DISPOSE OF EXISTING SIGNS AND SUPPORTS. THIS APPLIES TO TO BOTH THE DEPARTMENT AND CITY OF CLEVELAND SIGNS THAT ARE TO BE ELIMINATED OR REPLACED. REMOVED SIGNS AND SUPPORTS SHALL BECOME THE PROPERTY OF THE DBT.

PAVEMENT MARKING AND DELINEATION REQUIREMENTS

BARRIER REFLECTORS SHALL BE NEW AND CONFORM TO C&MS 626, SCD's AND THE TEM. THEY SHALL BE PLACED ON BRIDGE PARAPETS, CONCRETE BARRIER WALLS, RETAINING WALLS AND GUARDRAILS IN ACCORDANCE WITH THE CURRENT DESIGN STANDARDS.

GUARDRAIL BLOCKOUT REFLECTORS SHALL BE INSTALLED ON THE SIDE OF THE BLOCKOUT AWAY FROM TRAFFIC.

OBJECT MARKERS SHALL CONFORM TO C&MS 630, SIGN, FLAT SHEET TYPE G

SIGN POST REFLECTORS

THE CONTRACTOR SHALL INSTALL SIGN POST REFLECTORS FOR ALL SIGNS AS IDENTIFIED IN C&MS 630.04. ALL POSTS REQUIRING REFLECTORS SHALL BE NOTED IN THE SIGNING SUB-SUMMARY.

ITEM 614 - MAINTAINING TRAFFIC

SEE BUILDABLE UNIT 01 (BU-01) FOR MAINTENANCE OF TRAFFIC GENERAL NOTES, SEQUENCE OF CONSTRUCTION, AND PLANS.

SHOULDER CLOSURE FOR MEDIAN BARRIER SIGN SUPPORT

NEW OVERHEAD SIGN TRUSSES WITH BARRIER MEDIAN SUPPORT FOUNDATIONS WILL BE INSTALLED ON I-77 AT OVERHEAD GUIDE SIGN LOCATIONS B, C, AND K.

BARRIER MEDIAN SUPPORT FOUNDATIONS FOR OVERHEAD SIGN TRUSSES SHALL BE CONSTRUCTED IN ACCORDANCE WITH ODOT SCD TC-21.10 AND AS SHOWN IN THE PLANS. BARRIER MEDIAN SHALL BE REMOVED AND RECONSTRUCTED FOR 40 FT UPSTREAM AND DOWNSTREAM OF THE MEDIAN BARRIER SUPPORT FOUNDATION TO TRANSITION BARRIER WIDTH, SHAPE, AND HEIGHT TO MEET THE EXISTING BARRIER. THE BARRIER TRANSITION SHALL FOLLOW THE DETAIL ON SHEET .

TRAFFIC SHALL BE MAINTAINED ADJACENT TO BARRIER MEDIAN OVERHEAD SIGN SUPPORT AND FOUNDATION WORK BY CLOSING THE LEFT LANE WITH PORTABLE BARRIER DURING OFF-PEAK PERIODS IN ACCORDANCE WITH ODOT SCD MT-95.40.

DURING PEAK PERIODS WHEN NO BARRIER MEDIAN OVERHEAD SIGN SUPPORT OR FOUNDATION WORK ARE BEING PERFORMED, ALL LANES SHALL BE OPEN BUT THE SHOULDER SHALL REMAIN CLOSED USING PORTABLE BARRIER IN ACCORDANCE WITH ODOT SCD MT-95.45. THE SHOULDER SHALL NOT REOPEN UNTIL ALL WORK ON THE BARRIER MEDIAN OVERHEAD SIGN SUPPORT FOUNDATION IS COMPLETE AND THE BARRIER MEDIAN TRANSITIONS TO THE EXISTING BARRIER MEDIAN ARE COMPLETE.

LANE CLOSURE TIMES SHALL BE SCHEDULED FOR OFF-PEAK TRAFFIC TIMES AND COINCIDE WITH THE ODOT DISTRICT 12 PERMITTED LANE CLOSURE TIMES AND AS DESCRIBED IN BU-01 - MAINTENANCE OF TRAFFIC.

STOPPAGE OF MAINLINE TRAFFIC (OVERHEAD SIGN WORK)

STOPPAGE TIMES SHALL BE SCHEDULED FOR OFF-PEAK TRAFFIC TIMES AND COINCIDE WITH THE ODOT DISTRICT 12 PERMITTED LANE CLOSURE TIMES. NO COMPLETE STOPPAGE WILL BE SCHEDULED DURING THOSE TIMES WHICH ARE UNACCEPTABLE FOR A LANE REDUCTION.

THE CONTRACTOR SHALL NOTIFY THE ENGINEER/PERMIT OFFICE AND THE ODOT PUBLIC INFORMATION OFFICE SEVEN (7) DAYS PRIOR TO ANY MAINLINE TRAFFIC STOPPAGE.

LAW ENFORCEMENT OFFICERS WITH PATROL CARS ARE REQUIRED FOR EACH LANE TO BE CLOSED ON THE HIGHWAY.

SEE SCD MT-99.60 FOR ADDITIONAL INFORMATION.

BUILDABLE UNIT REFERENCE

THE PROJECT IS BROKEN INTO BUILDABLE UNITS, PORTIONS OF THE PROJECT DEFINED BY GEOGRAPHIC AREAS OR TYPES OF WORK TO BE PERFORMED. THE FOLLOWING IS A LIST OF BUILDABLE UNITS ASSOCIATED WITH THIS PLAN SET:

| | |
|--------|---|
| BU-01 | MAINTENANCE OF TRAFFIC |
| BU-12 | TRAFFIC CONTROL - SIGNALS AND DUCT BANK |
| BU-14 | ROADWAY & PAVEMENT - BEGIN PROJECT TO KINGSBURY RUN |
| BU-15 | ROADWAY & PAVEMENT - KINGSBURY RUN TO END PROJECT |
| BU-15A | ROADWAY & PAVEMENT - GCRTA PARKING LOT |
| BU-27 | STREET LEVEL LIGHTING |
| BU-28 | HIGHWAY LIGHTING |
| BU-29 | LANDSCAPING, FINISH GRADING & SEEDING |

| | | |
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| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

PAVEMENT MARKING LEGEND

- CH

CHANNELIZING LINE, 12", WHITE
- CL

CENTER LINE (DOUBLE SOLID YELLOW)
- CW

CROSSWALK LINE, 12" (TYP.)
- LA

LANE ARROW
- LL

LANE LINE, 6"
- DL

DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP)
- SL

STOP LINE, 24" (TYP.)
- BS

BIKE LANE SYMBOL

EW

EDGE LINE, 6" WHITE

EY

EDGE LINE, 6" YELLOW

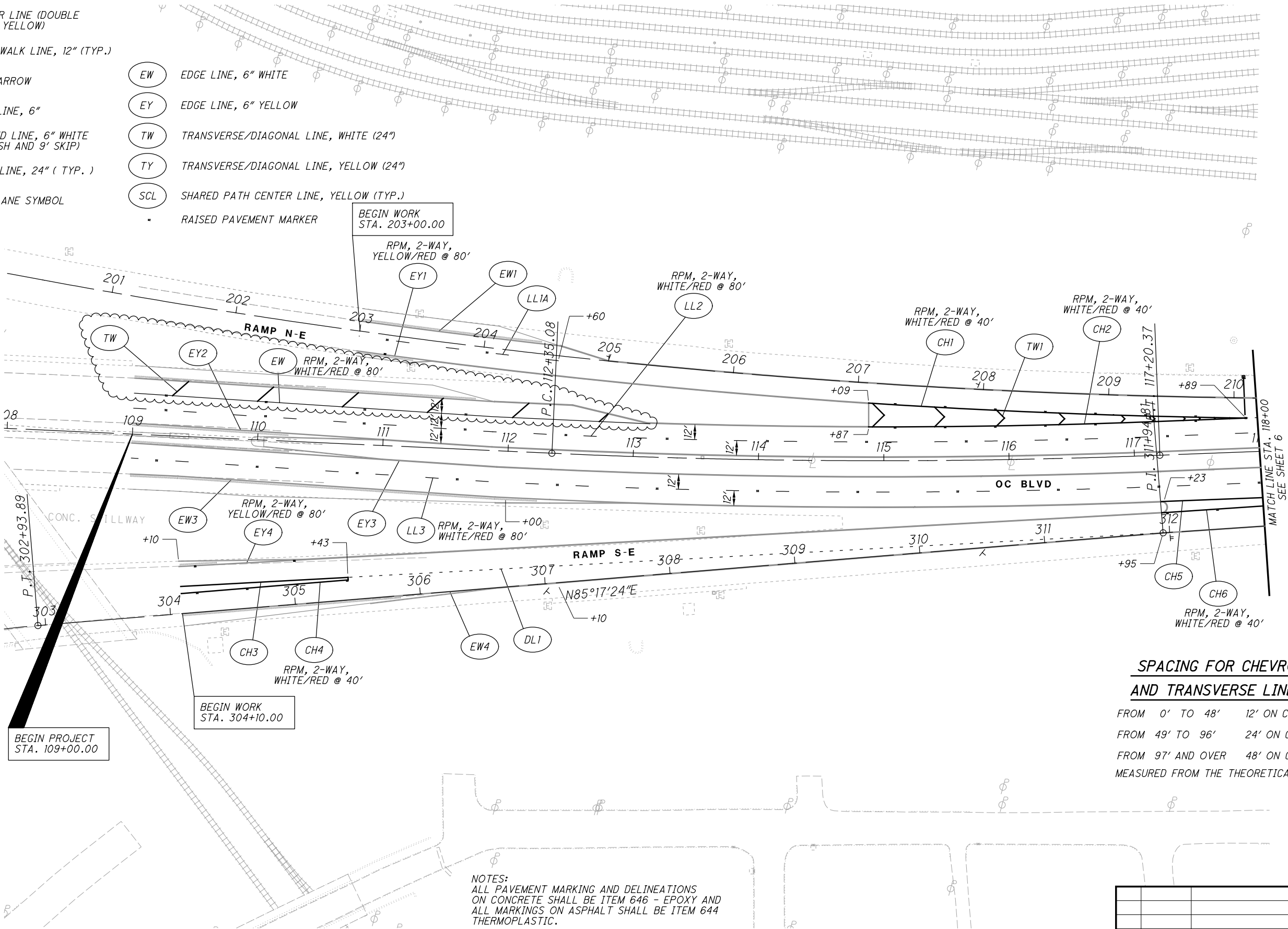
TW

TRANSVERSE/DIAGONAL LINE, WHITE (24")

TY

TRANSVERSE/DIAGONAL LINE, YELLOW (24")

SCL

SHARED PATH CENTER LINE, YELLOW (TYP.)RAISED PAVEMENT MARKER

**SPACING FOR CHEVRONS
AND TRANSVERSE LINES, 24"**

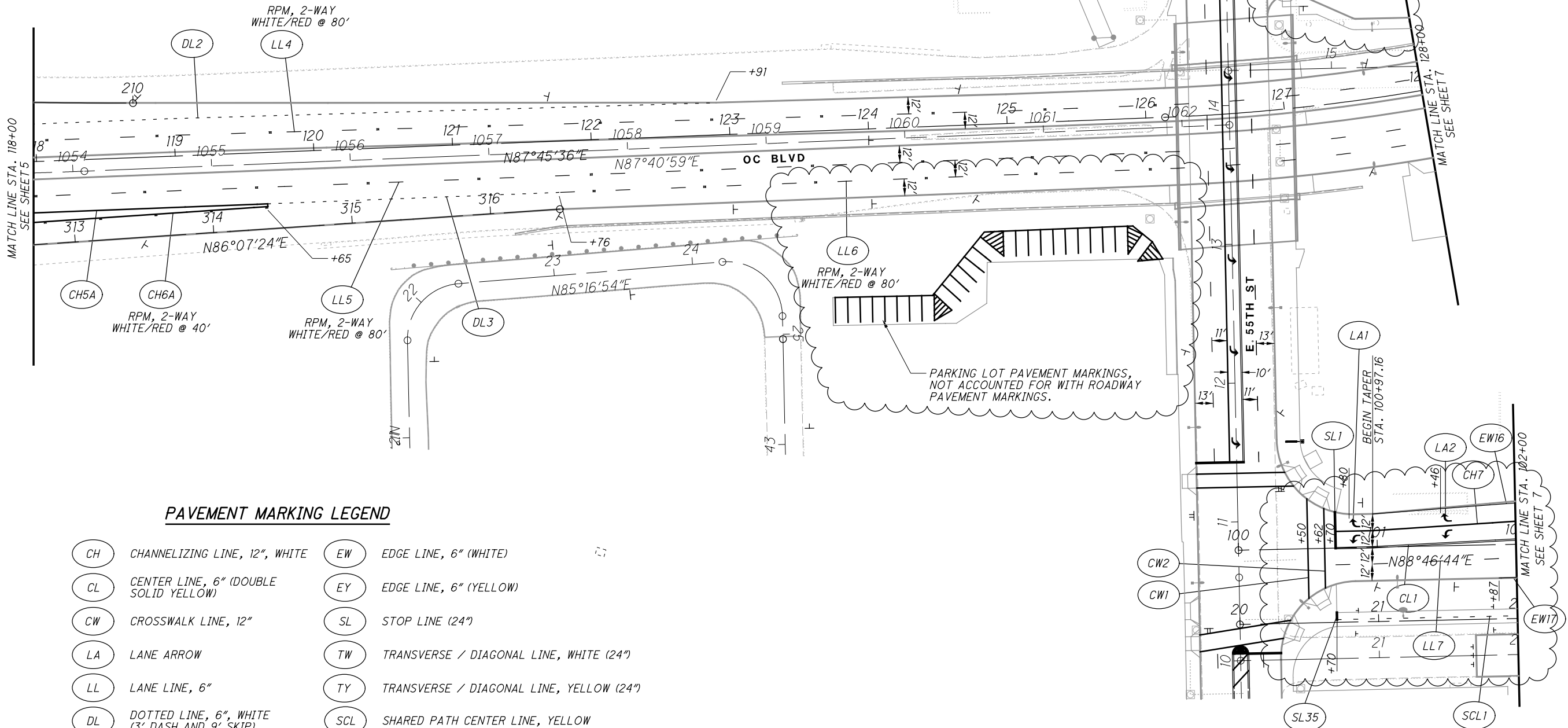
| | |
|-------------------|----------------|
| FROM 0' TO 48' | 12' ON CENTERS |
| FROM 49' TO 96' | 24' ON CENTERS |
| FROM 97' AND OVER | 48' ON CENTERS |

MEASURED FROM THE THEORETICAL GORE.

NOTES:
ALL PAVEMENT MARKING AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.

YELLOW ISLAND MARKINGS SHALL EXTEND 20'
BEYOND THE RADIUS OF THE ISLAND ON THE
CONCRETE MEDIAN OR CURB.

| NO. | DATE | DESCRIPTION |
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| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
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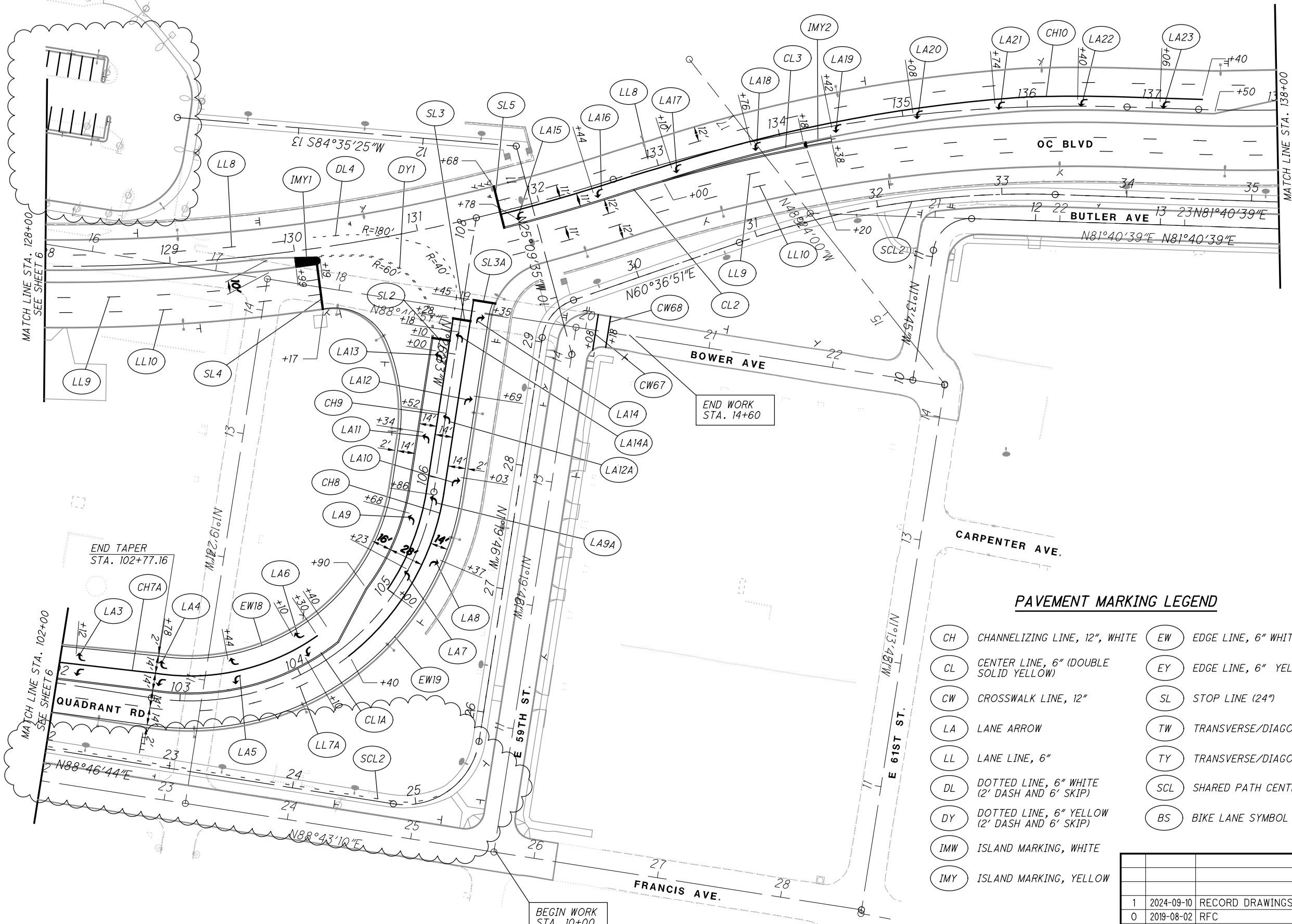


PAVEMENT MARKING LEGEND

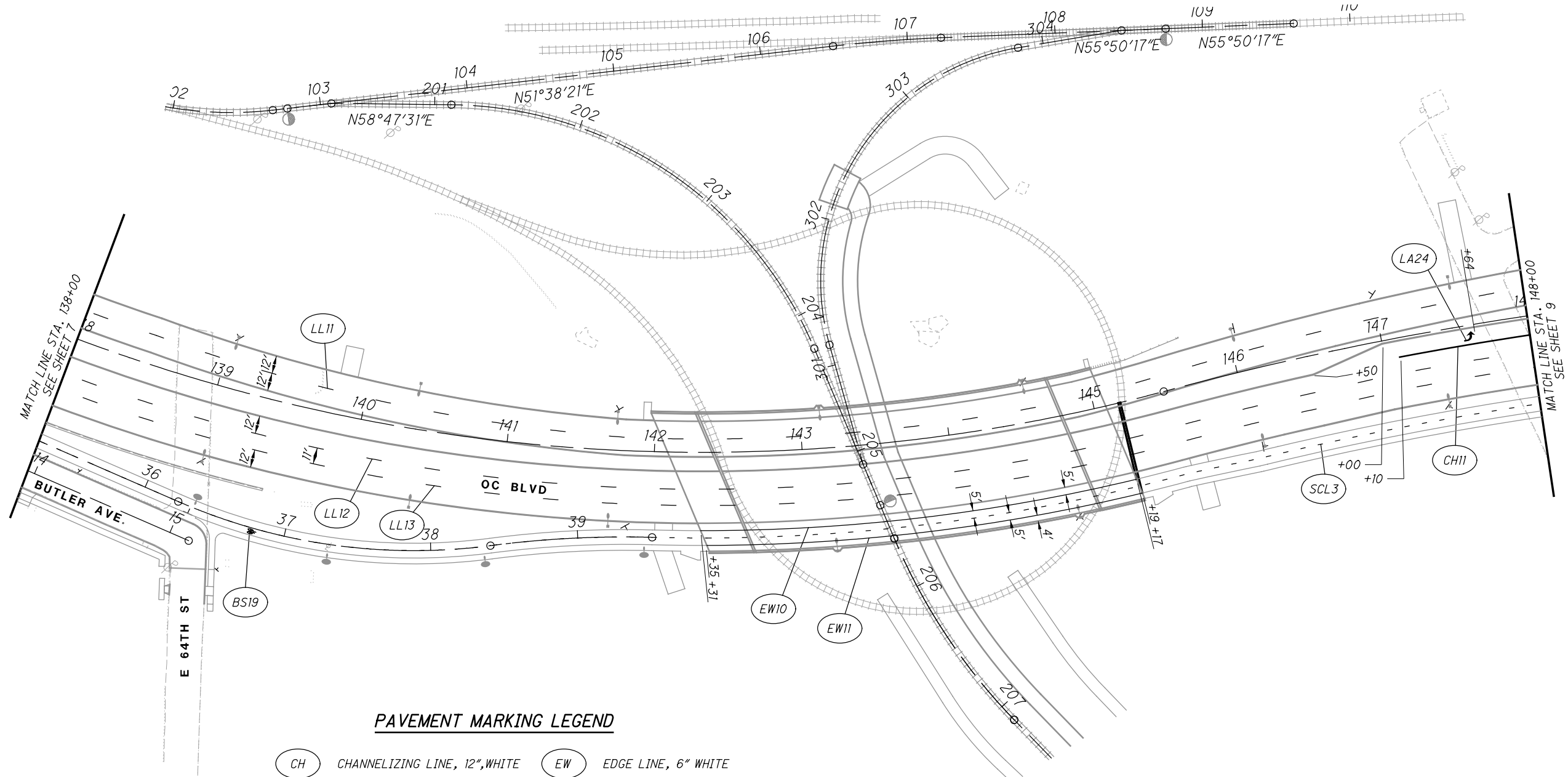
- | | | | |
|-----|--|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" (WHITE) |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" (YELLOW) |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE / DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE / DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6", WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| ▪ | RAISED PAVEMENT MARKER | IMY | ISLAND MARKING (YELLOW) |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| | | IMW | ISLAND MARKING, WHITE |

NOTE:
FOR E. 55TH STREET QUANTITIES,
SEE SHEET 17.

| ISSUE RECORD | | |
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| NO. | DATE | DESCRIPTION |
| 0 | 2019-08-02 | RFC |
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| ISSUE RECORD | | |

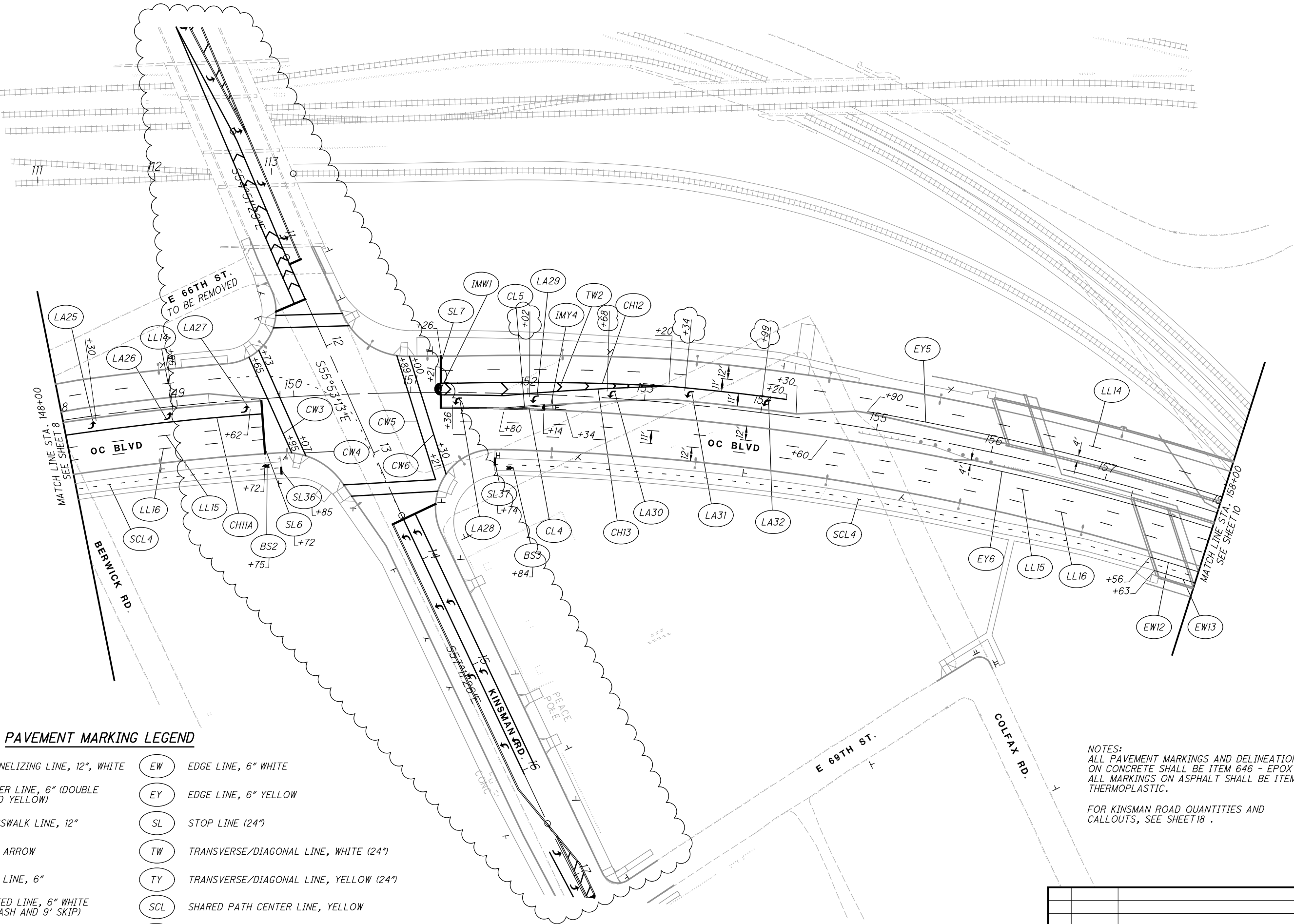


PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |

NOTE:
ALL PAVEMENT MARKINGS AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.

| | | |
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PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |

NOTES:
ALL PAVEMENT MARKINGS AND DELINEATIONS ON CONCRETE SHALL BE ITEM 646 - EPOXY AND ALL MARKINGS ON ASPHALT SHALL BE ITEM 644 THERMOPLASTIC.

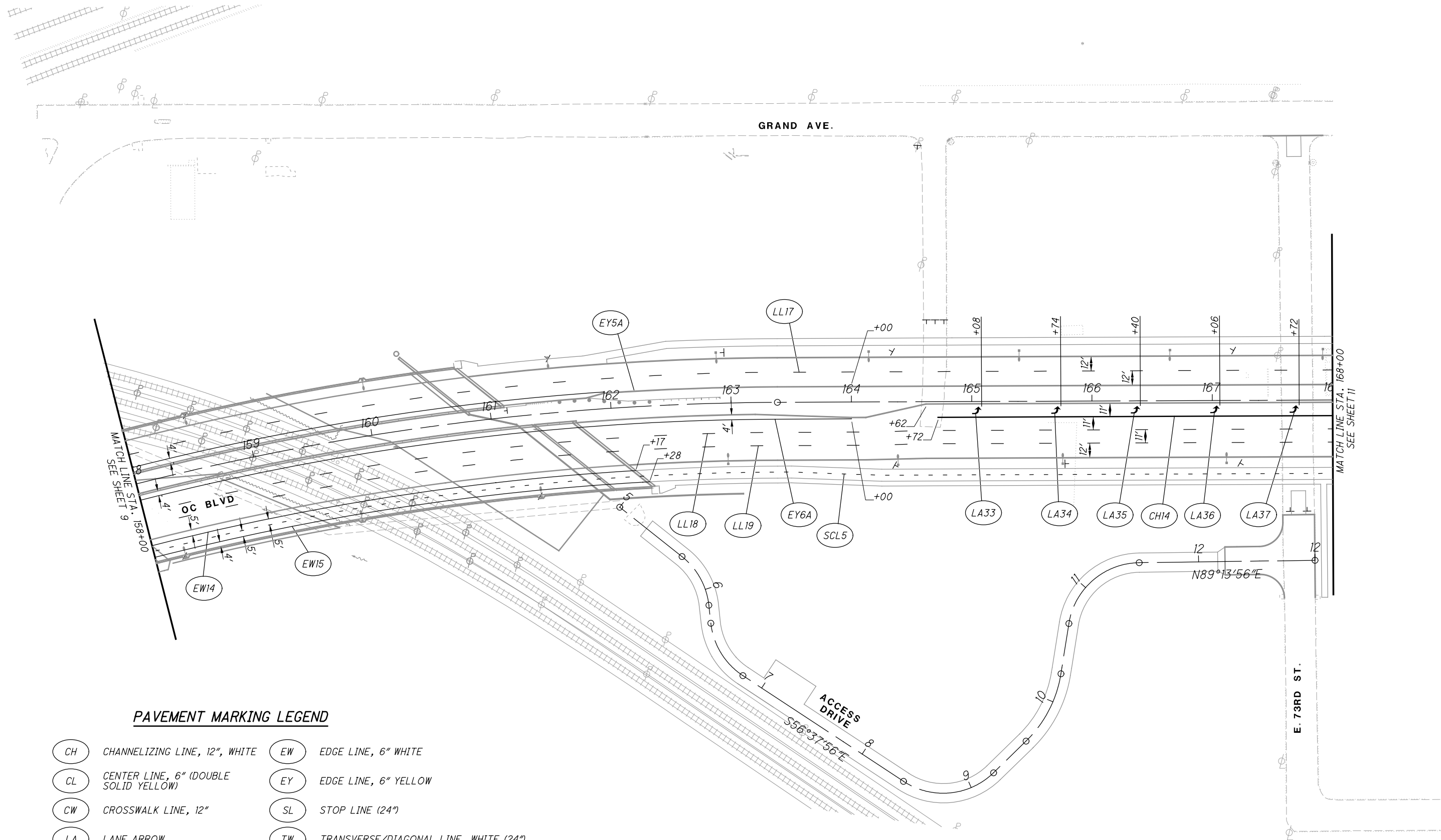
FOR KINSMAN ROAD QUANTITIES AND CALLOUTS, SEE SHEET 18.

| NO. | DATE | DESCRIPTION |
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| 1 | 2024-09-10 | RECORD DRAWINGS |
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PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |

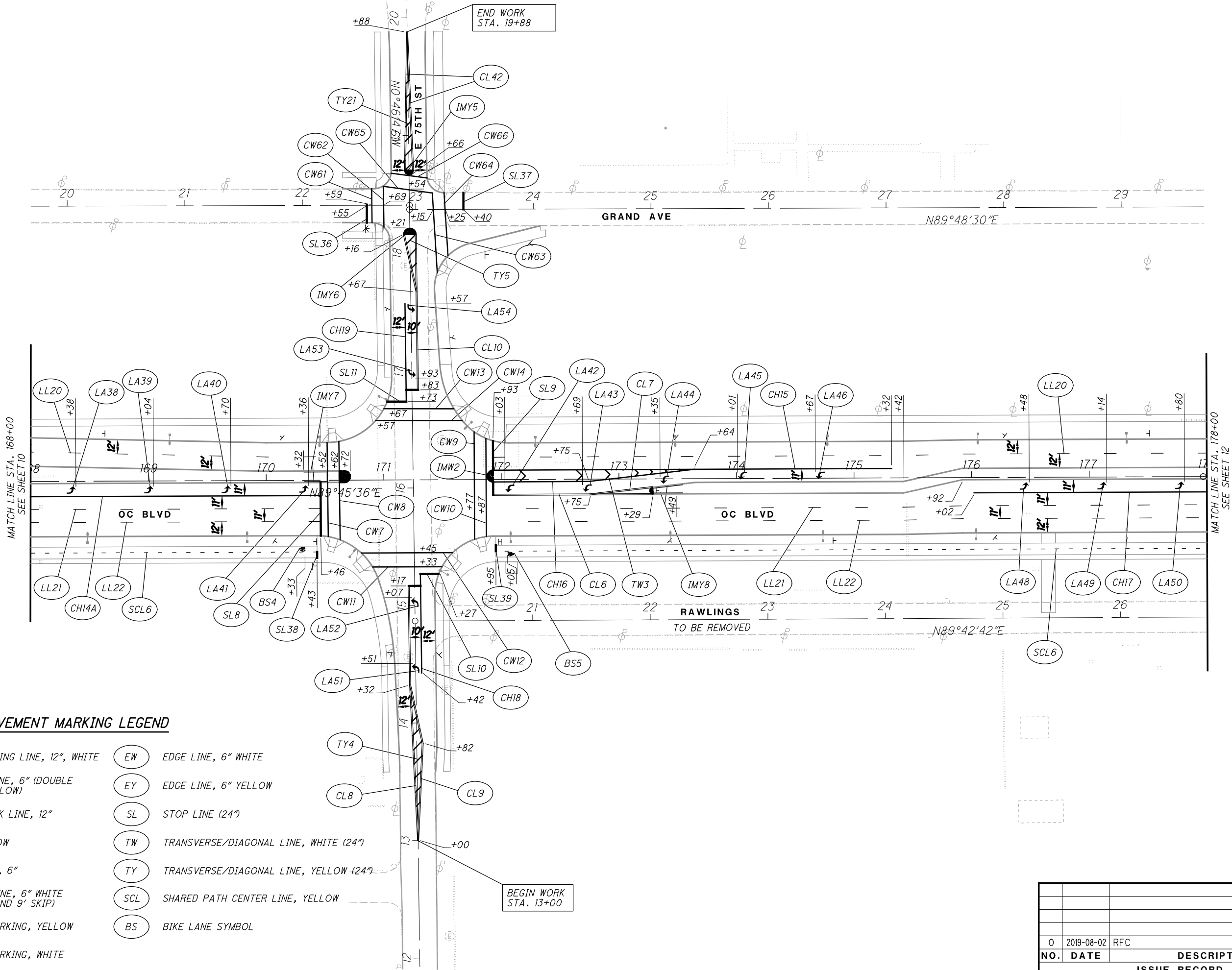
NOTE:
ALL PAVEMENT MARKINGS AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.



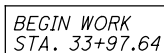
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PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |

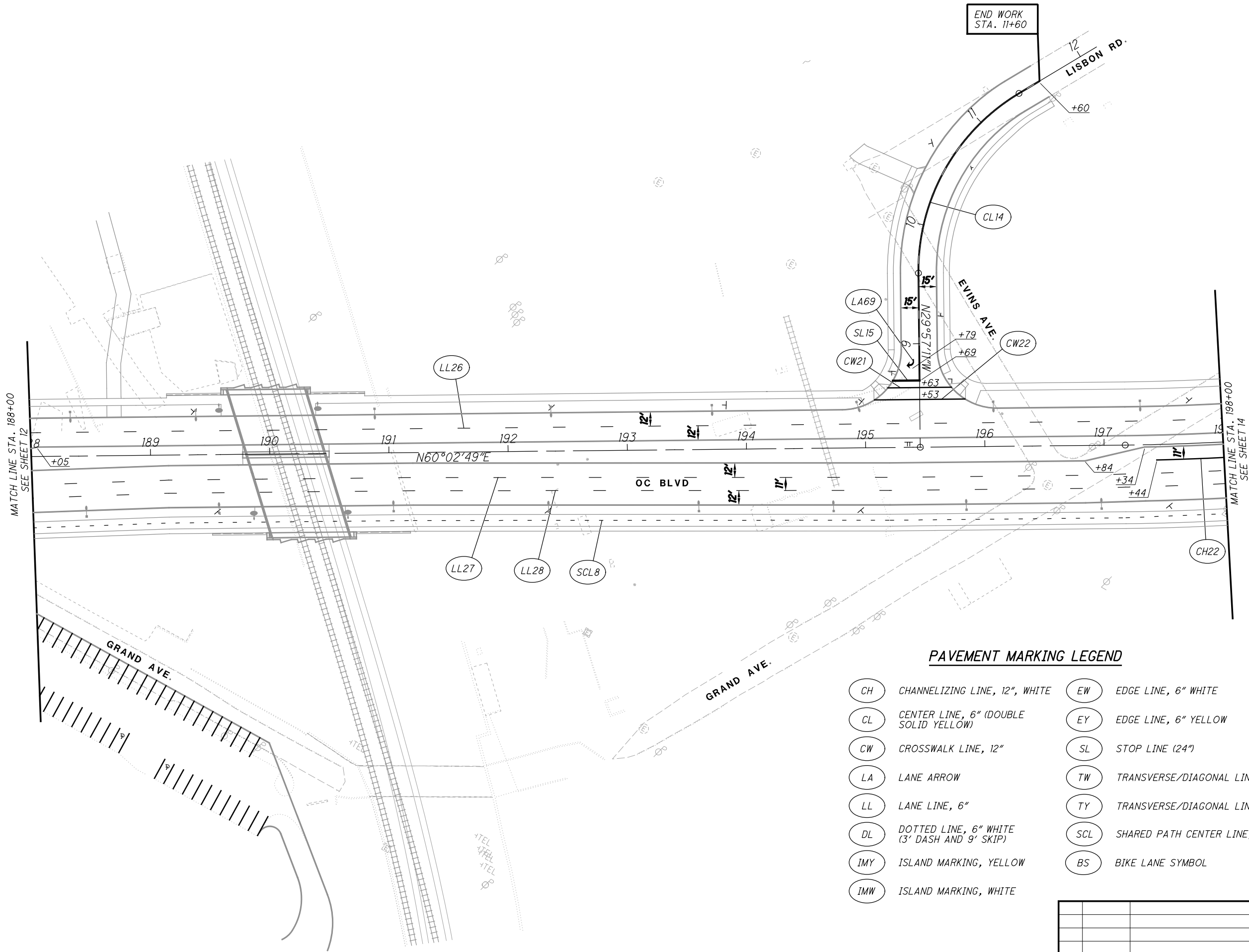


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NOTE:
FOR E. 79TH STREET QUANTITIES AND
CALLOUTS, SEE SHEET 19 .

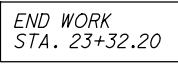
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PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |

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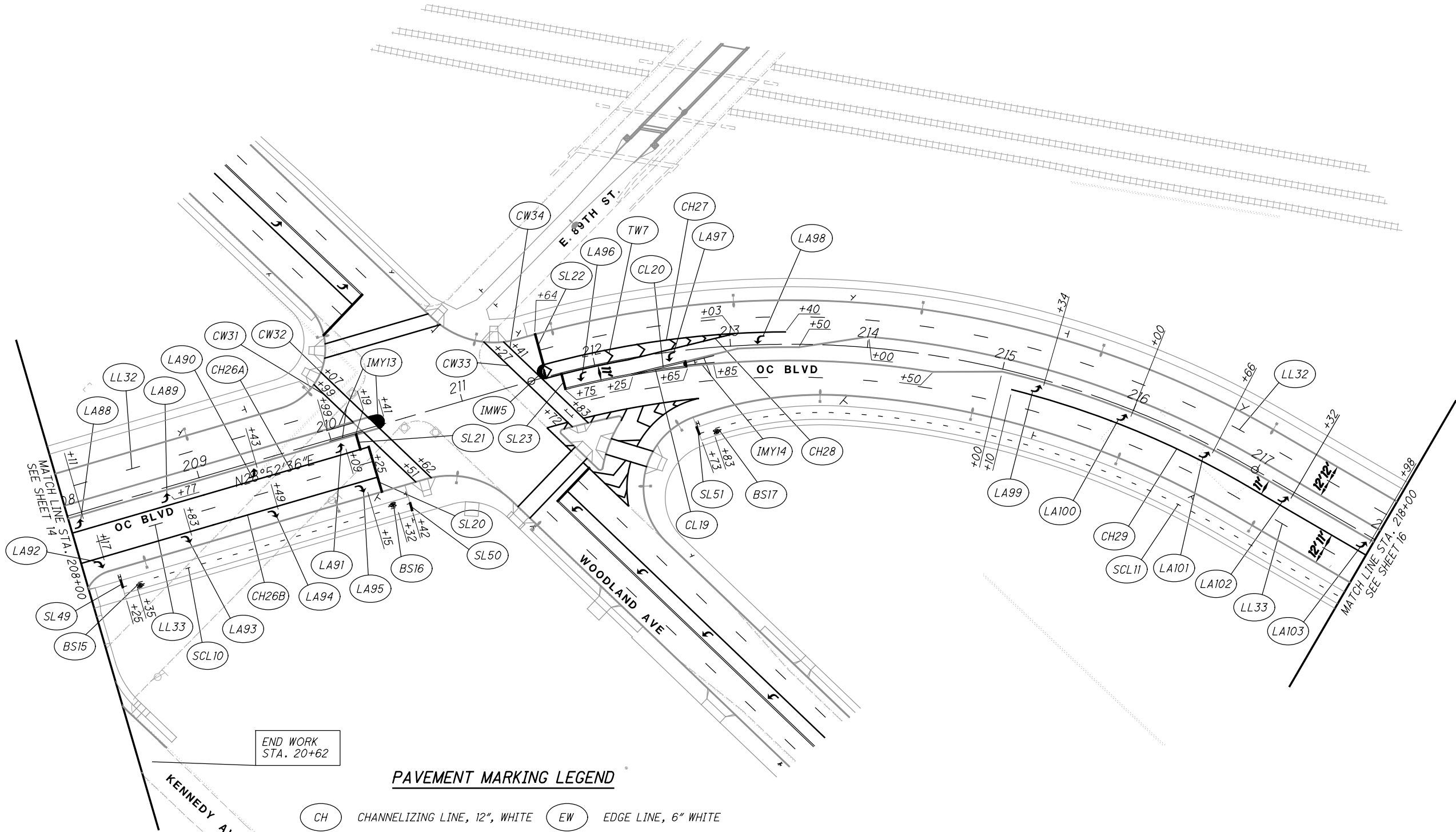
PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | CHD | DOTTED LINE, 12" (3' LONG, 9' GAPS) |

NOTE:
FOR BUCKEYE AVENUE QUANTITIES AND
CALLOUTS, SEE SHEET 20.

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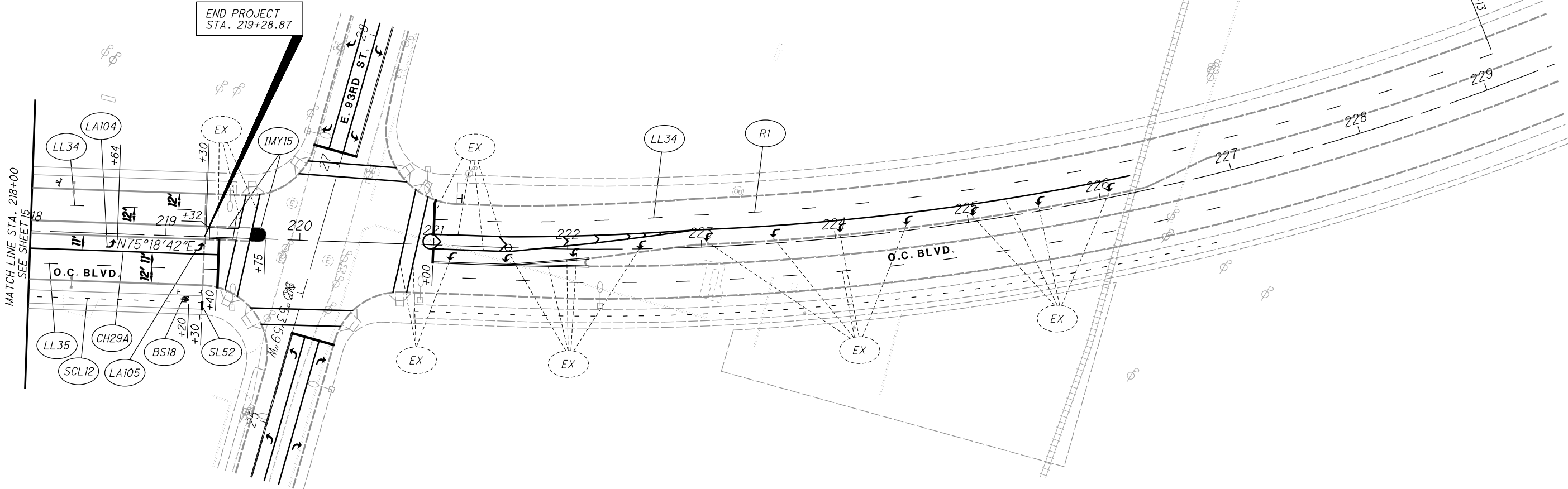


PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | CHD | DOTTED LINE, 12" (3' DASH AND 9' SKIP) |

NOTE:
FOR WOODLAND AVENUE QUANTITIES
AND CALLOUTS, SEE SHEET 21.

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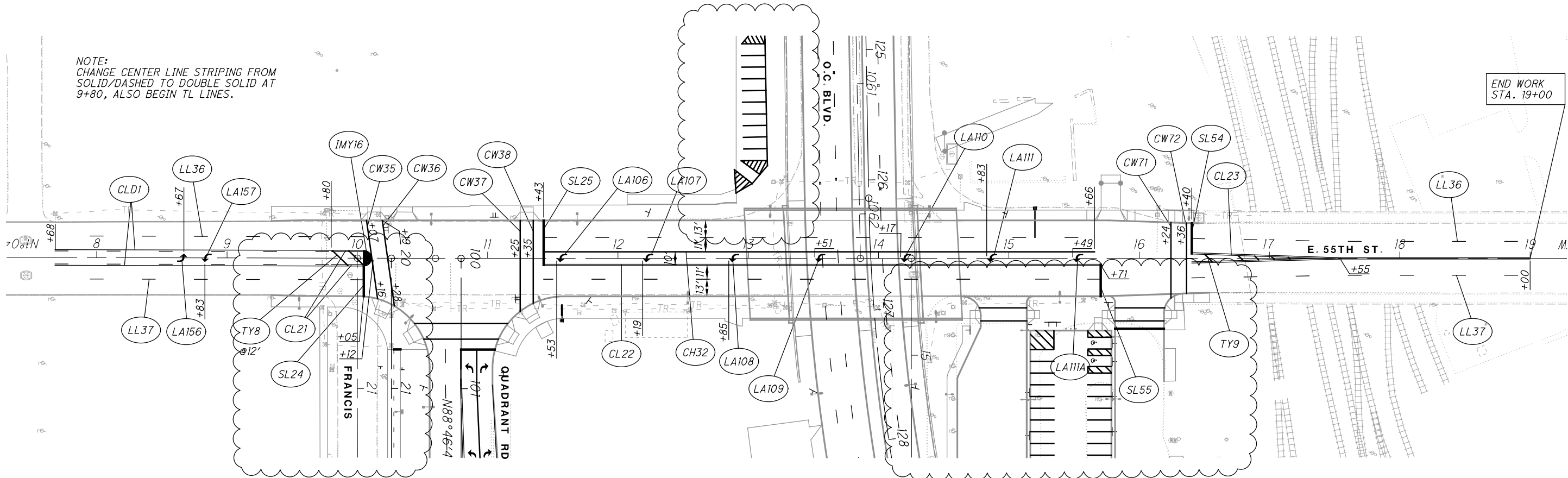
PAVEMENT MARKING LEGEND

| | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| R | PAVEMENT MARKINGS REMOVED | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | | |
| IMY | ISLAND MARKING, YELLOW | | |

NOTE:
ALL PAVEMENT MARKINGS CALLED OUT AS EXISTING, WERE APPLIED AS PART OF OPPORTUNITY CORRIDOR - SECTION2. ANY SECTION 2 PAVEMENT MARKINGS IN CONFLICT WITH FINAL MARKINGS SHALL BE REMOVED UNDER ITEM 646 - REMOVAL OF PAVEMENT MARKINGS. (EDGE LINE AND TRANSVERSE/DIAGONAL LINE FROM 221+00 TO 229+25.)

NOTE:
FOR E. 93RD STREET QUANTITIES AND CALLOUTS,
SEE SHEET 22.

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NOTE:
CHANGE CENTER LINE STRIPING FROM
SOLID/DASHED TO DOUBLE SOLID AT
9+80, ALSO BEGIN TL LINES.

PAVEMENT MARKING LEGEND

- | | | | |
|-----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| IMY | ISLAND MARKING, YELLOW | BS | BIKE LANE SYMBOL |
| IMW | ISLAND MARKING, WHITE | CLD | CENTER LINE, 6" (SOLID/DASHED, YELLOW) |

NOTE:
ALL PAVEMENT MARKINGS AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.

| NO. | DATE | DESCRIPTION |
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PAVEMENT MARKING LEGEND

- CH

CHANNELIZING LINE, 12", WHITE
- CL

CENTER LINE, 6" (DOUBLE SOLID YELLOW)
- CW

CROSSWALK LINE, 12"
- LA

LANE ARROW
- LL

LANE LINE, 6"
- DL

DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP)
- IMY

ISLAND MARKING, YELLOW
- EW

EDGE LINE, 6" WHITE
- EY

EDGE LINE, 6" YELLOW
- SL

STOP LINE (24")
- TW

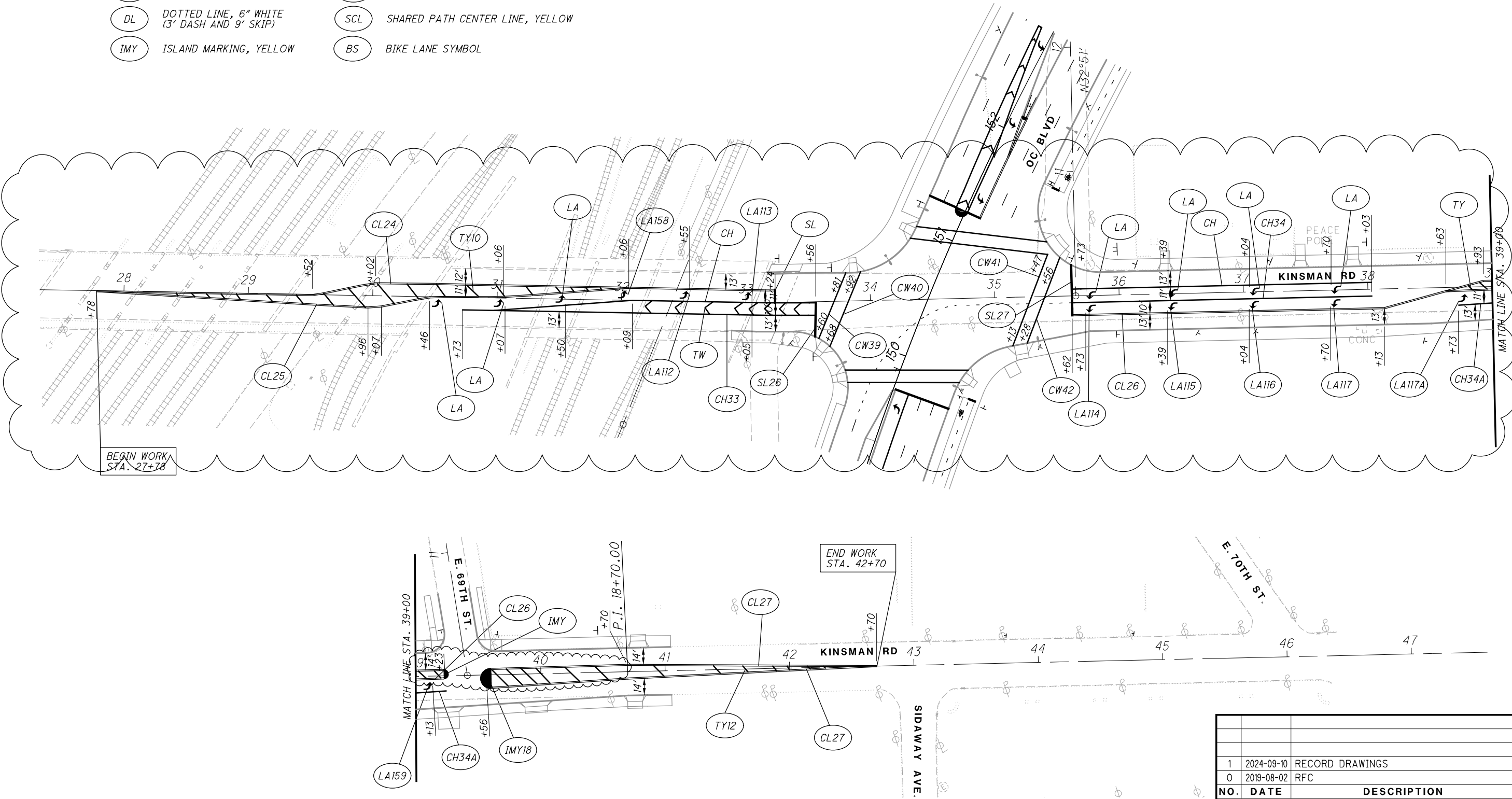
TRANSVERSE/DIAGONAL LINE, WHITE (24")
- TY

TRANSVERSE/DIAGONAL LINE, YELLOW (24")
- SCL

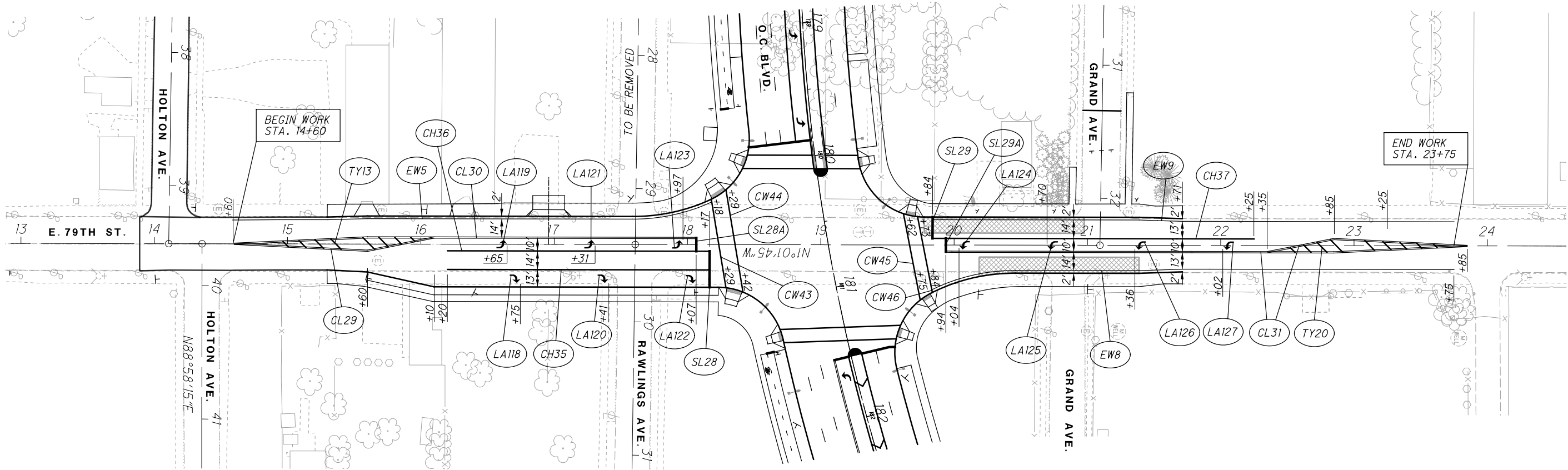
SHARED PATH CENTER LINE, YELLOW
- BS

BIKE LANE SYMBOL

NOTE:
ALL PAVEMENT MARKINGS AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.



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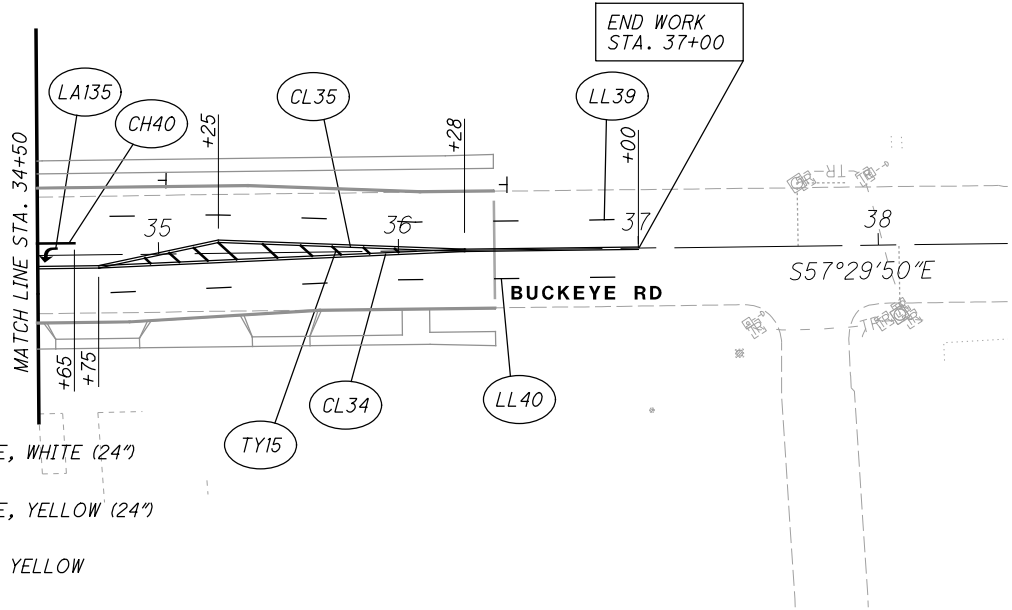
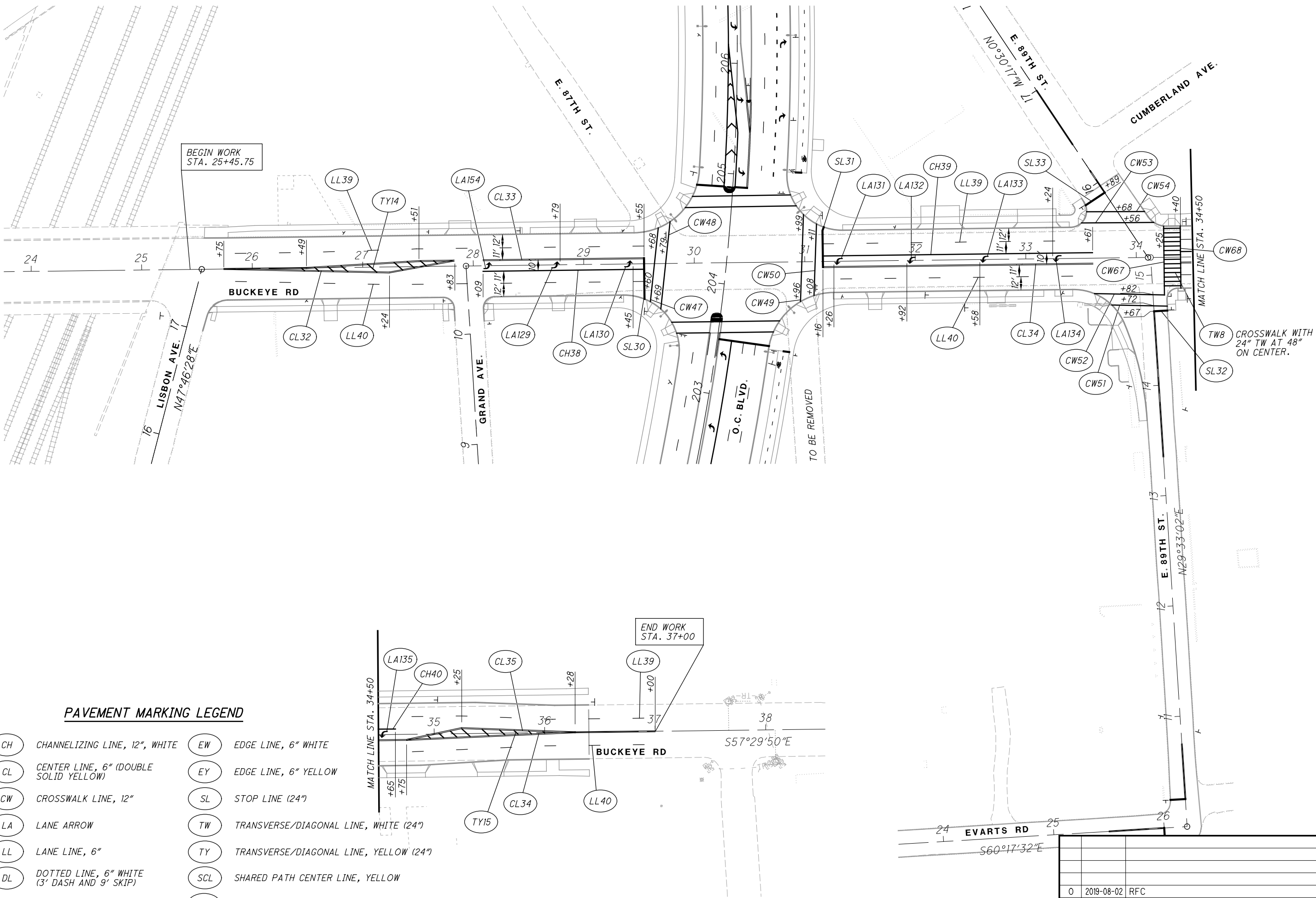
PAVEMENT MARKING LEGEND

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|----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| | | BS | BIKE LANE SYMBOL |

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|----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| | | BS | BIKE LANE SYMBOL |



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PAVEMENT MARKING PLAN
BUCKEYE RD.

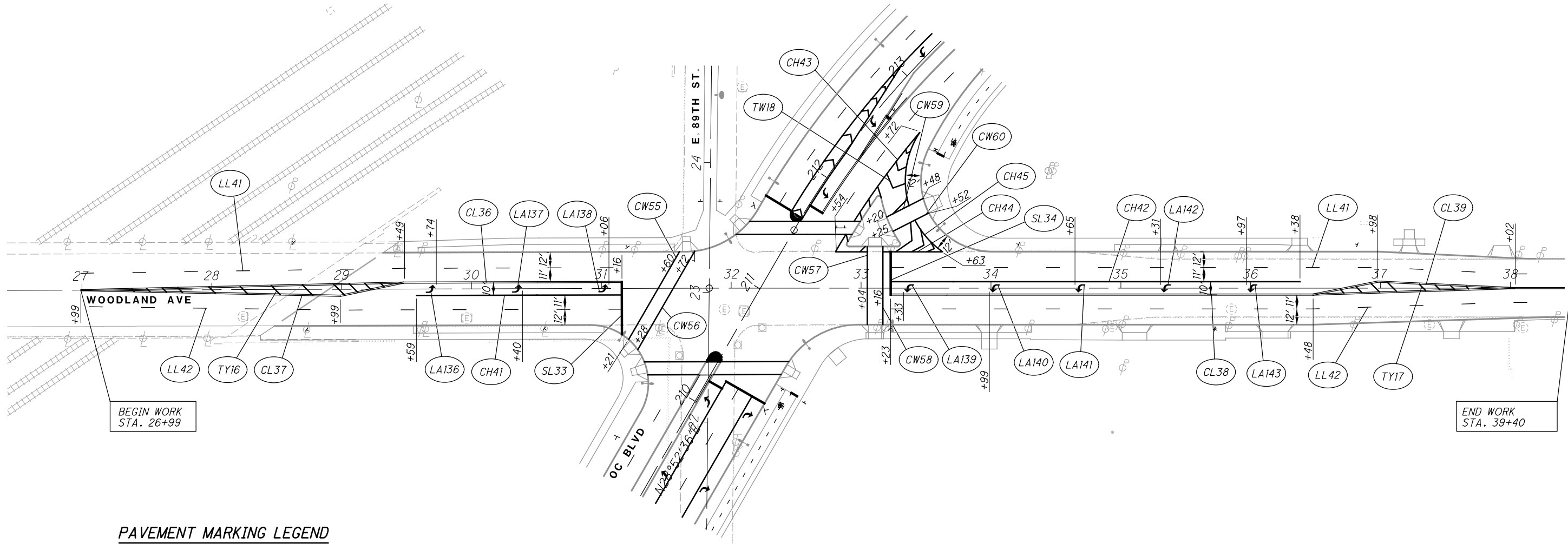
RECORD PLANS



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CHECKED
JFM

RECORD PLANS

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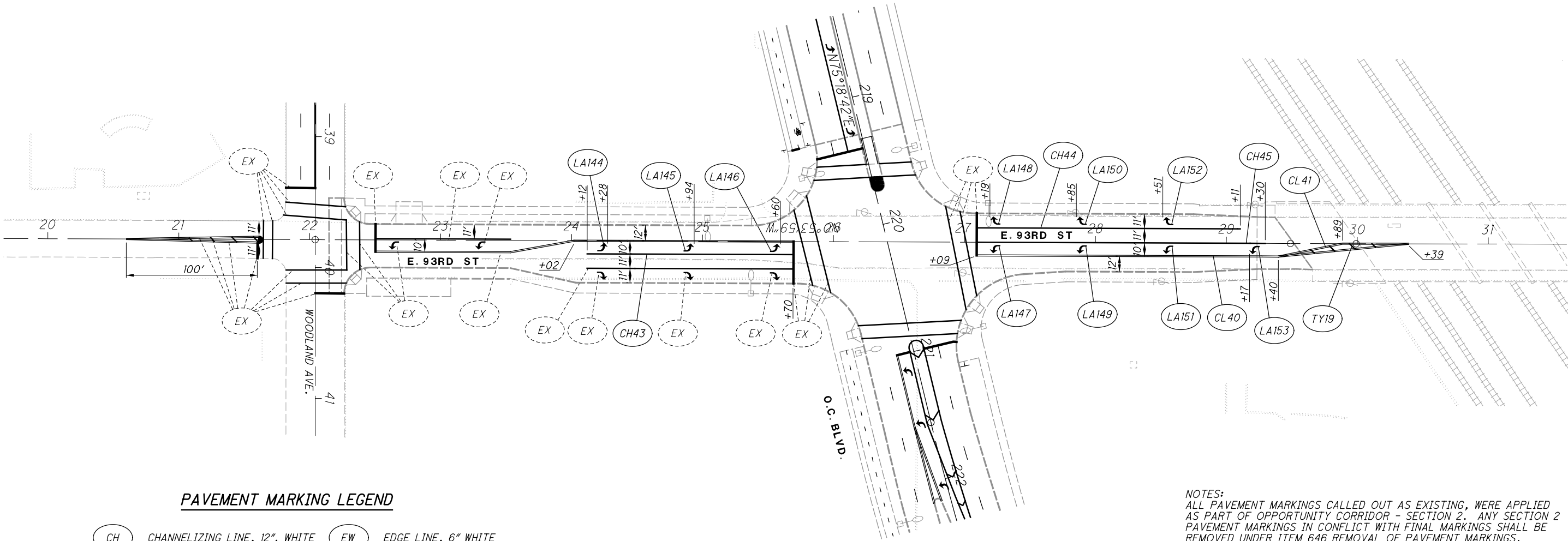


PAVEMENT MARKING LEGEND

- | | | | |
|----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| | | BS | BIKE LANE SYMBOL |

NOTE:
ALL PAVEMENT MARKINGS AND DELINEATIONS
ON CONCRETE SHALL BE ITEM 646 - EPOXY AND
ALL MARKINGS ON ASPHALT SHALL BE ITEM 644
THERMOPLASTIC.

| 0 | 2019-08-02 | RFC |
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PAVEMENT MARKING LEGEND

- | | | | |
|----|---|-----|--|
| CH | CHANNELIZING LINE, 12", WHITE | EW | EDGE LINE, 6" WHITE |
| CL | CENTER LINE, 6" (DOUBLE SOLID YELLOW) | EY | EDGE LINE, 6" YELLOW |
| CW | CROSSWALK LINE, 12" | SL | STOP LINE (24") |
| LA | LANE ARROW | TW | TRANSVERSE/DIAGONAL LINE, WHITE (24") |
| LL | LANE LINE, 6" | TY | TRANSVERSE/DIAGONAL LINE, YELLOW (24") |
| DL | DOTTED LINE, 6" WHITE (3' DASH AND 9' SKIP) | SCL | SHARED PATH CENTER LINE, YELLOW |
| EX | EXISTING PAVEMENT MARKING | BS | BIKE LANE SYMBOL |

NOTES:
ALL PAVEMENT MARKINGS CALLED OUT AS EXISTING, WERE APPLIED AS PART OF OPPORTUNITY CORRIDOR - SECTION 2. ANY SECTION 2 PAVEMENT MARKINGS IN CONFLICT WITH FINAL MARKINGS SHALL BE REMOVED UNDER ITEM 646 REMOVAL OF PAVEMENT MARKINGS.

ALL PAVEMENT MARKINGS AND DELINEATIONS ON CONCRETE SHALL BE ITEM 646 - EPOXY AND ALL MARKINGS ON ASPHALT SHALL BE ITEM 644 THERMOPLASTIC.

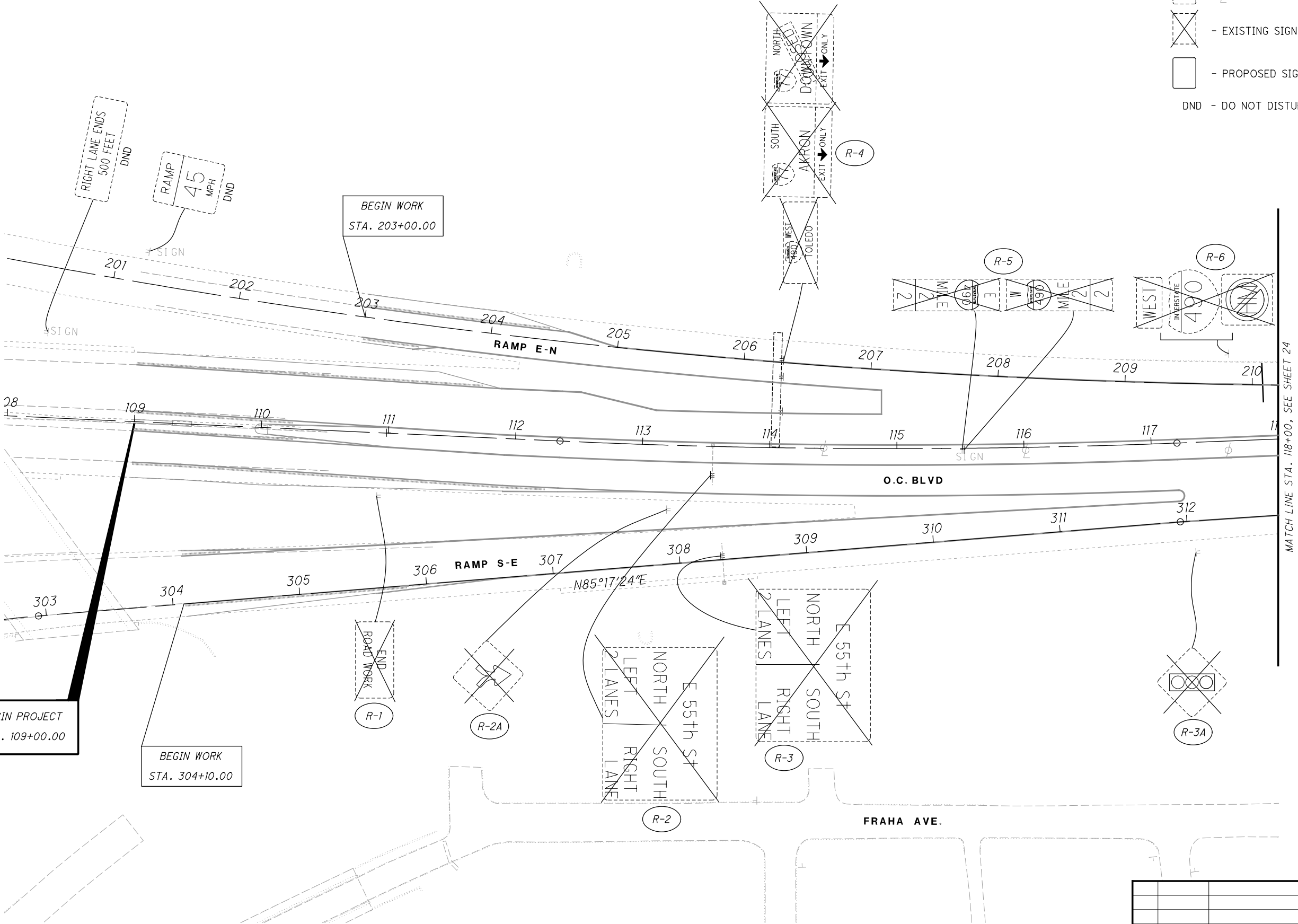
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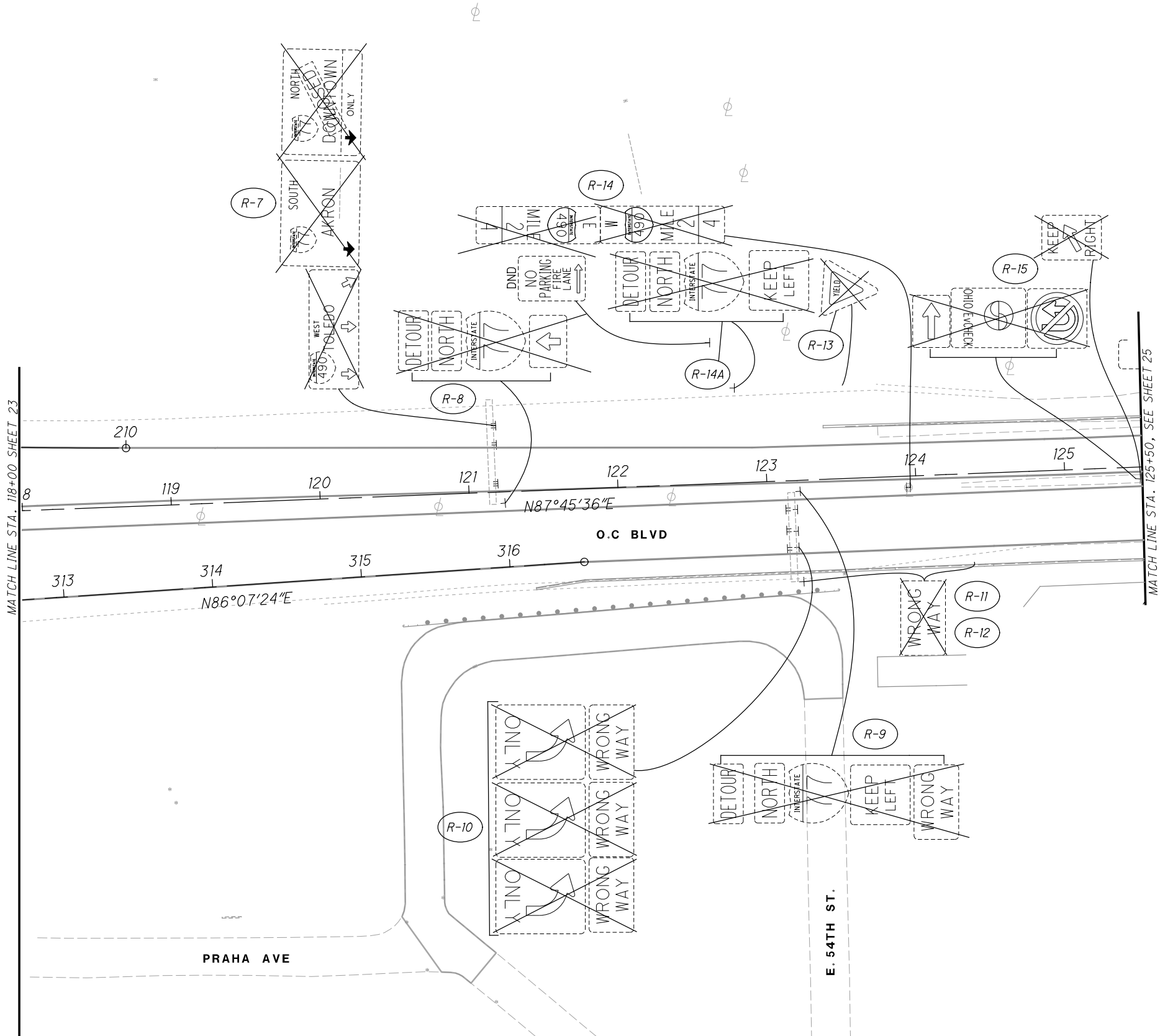
BEGIN WORK
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BEGIN WORK
STA. 203+00.00



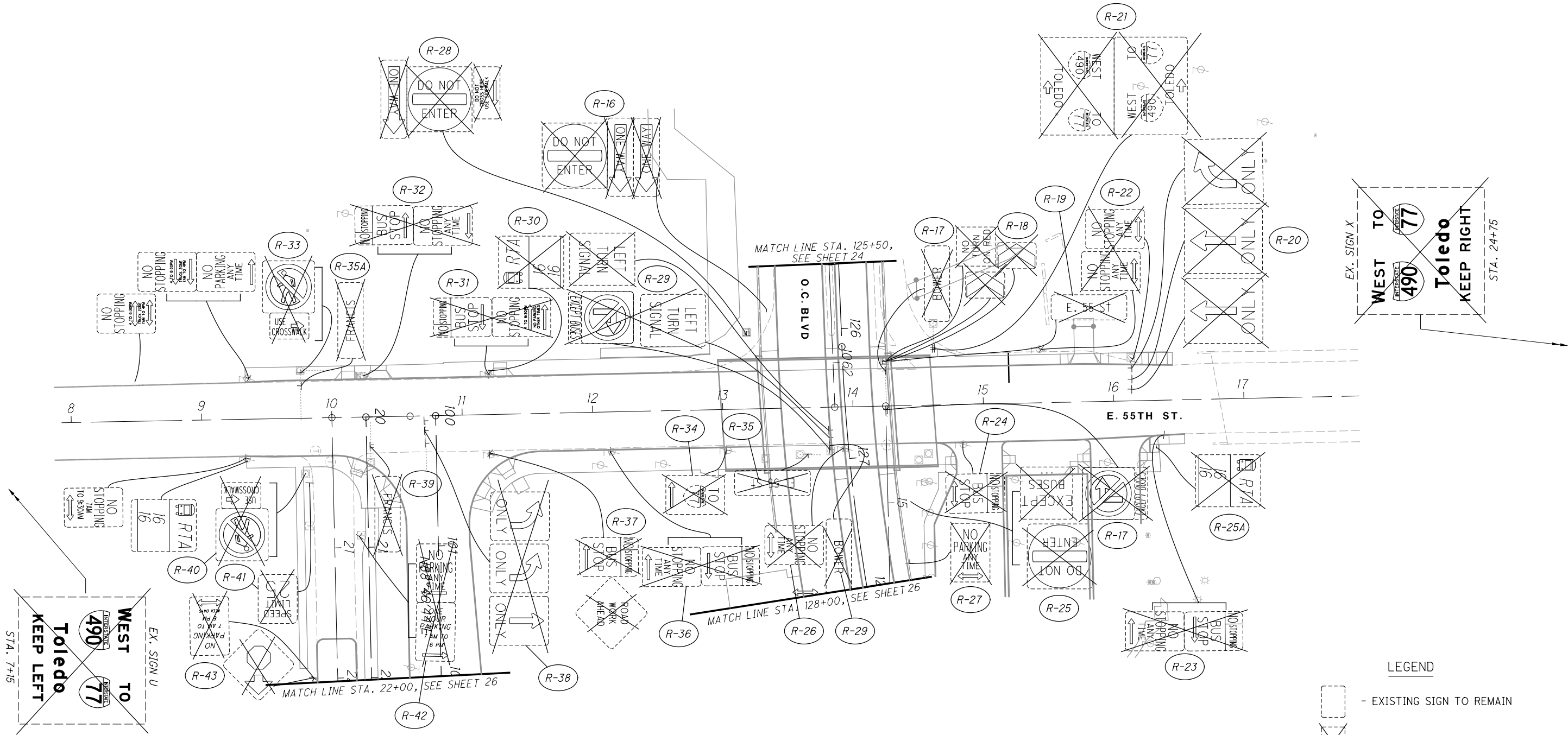
- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB

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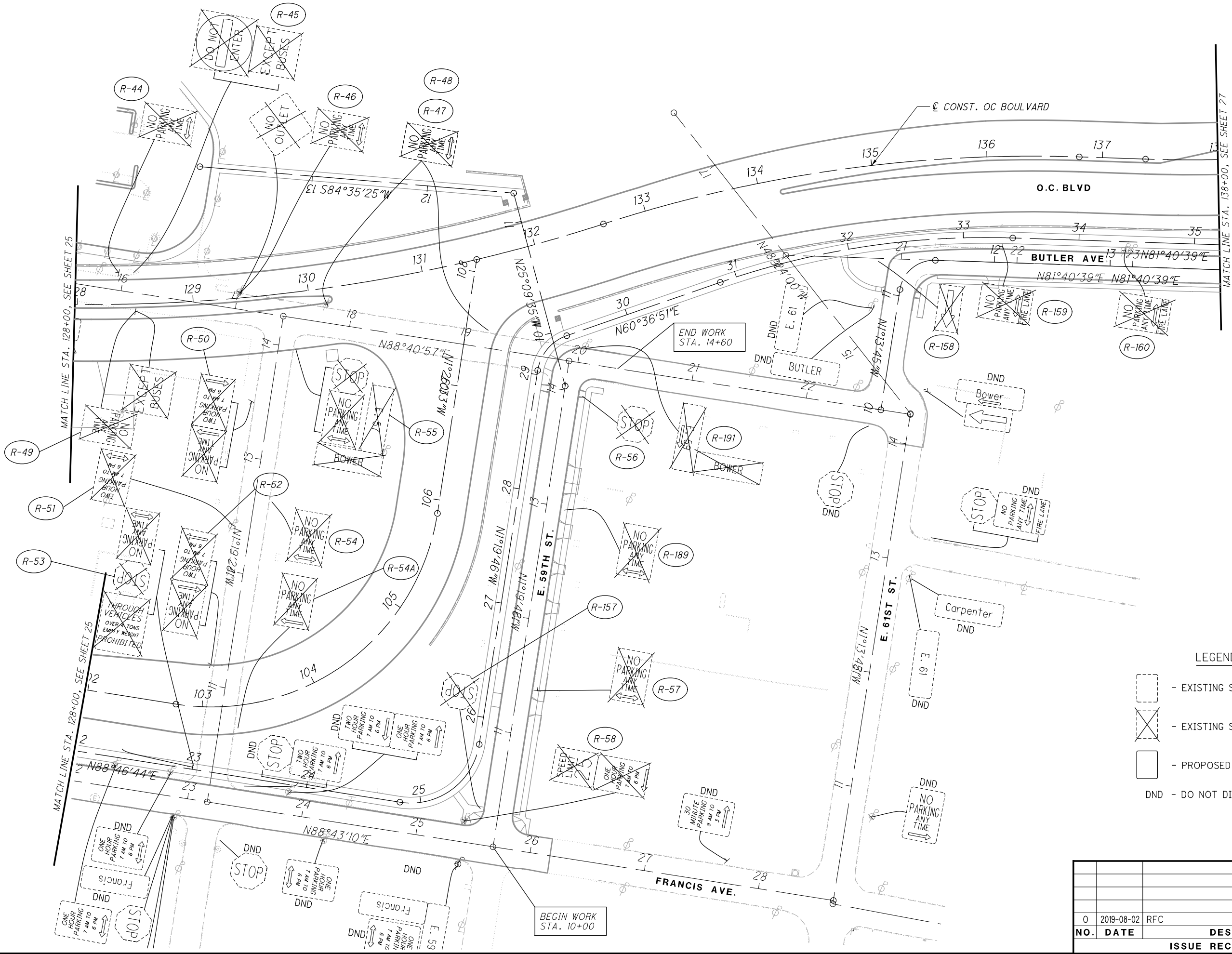


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- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB



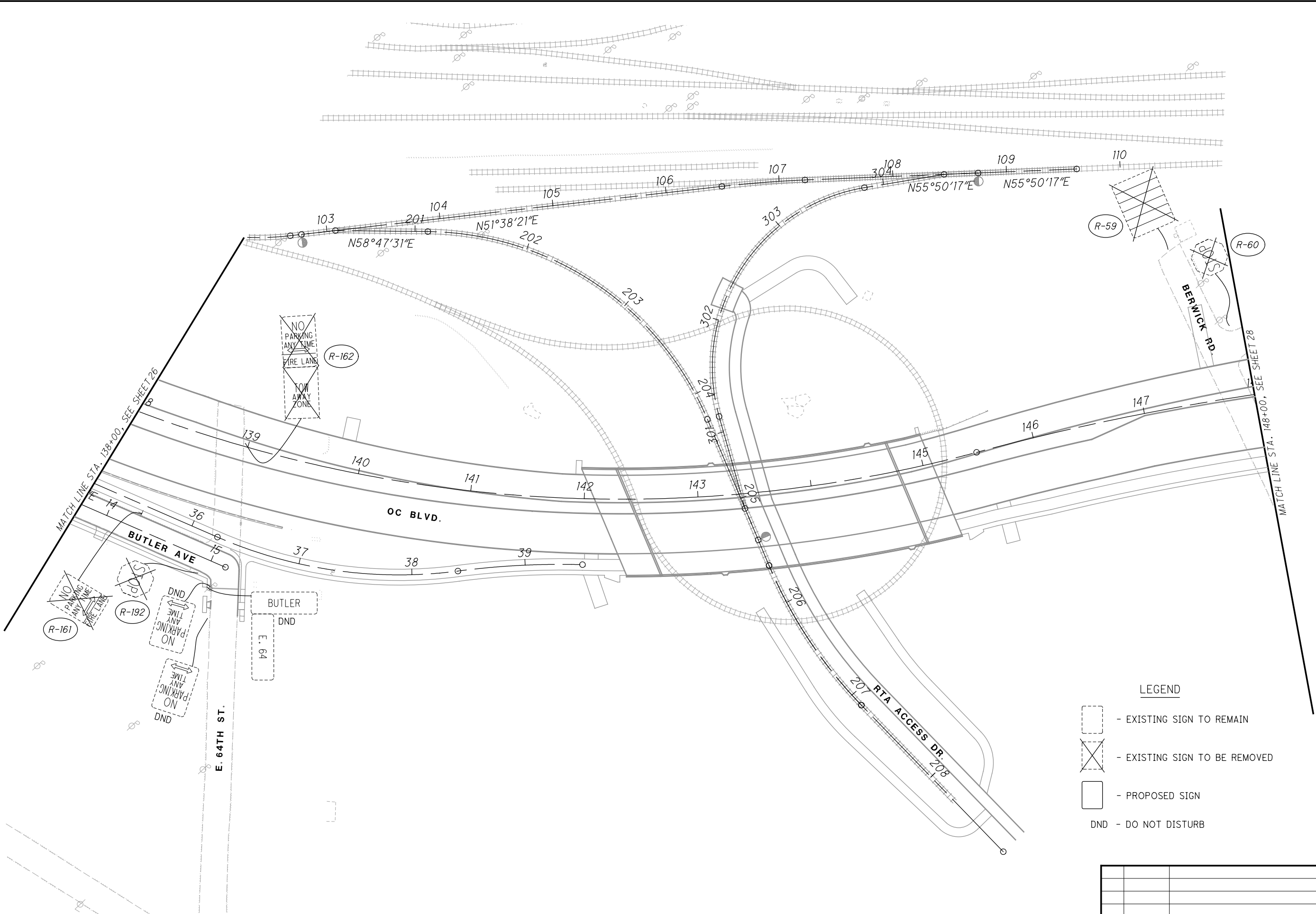
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LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

| NO. | DATE | DESCRIPTION |
|--------------|------------|-------------|
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| ISSUE RECORD | | |



LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

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CUY-IR490/ SR010-
2.09 / 19.28

EXISTING SIGNING PLANS
OC BLVD. - STA. 138+00 TO STA. 148+00

CALCULATED WCB
CHECKED JFM

0 40 80
HORIZONTAL
SCALE IN FEET

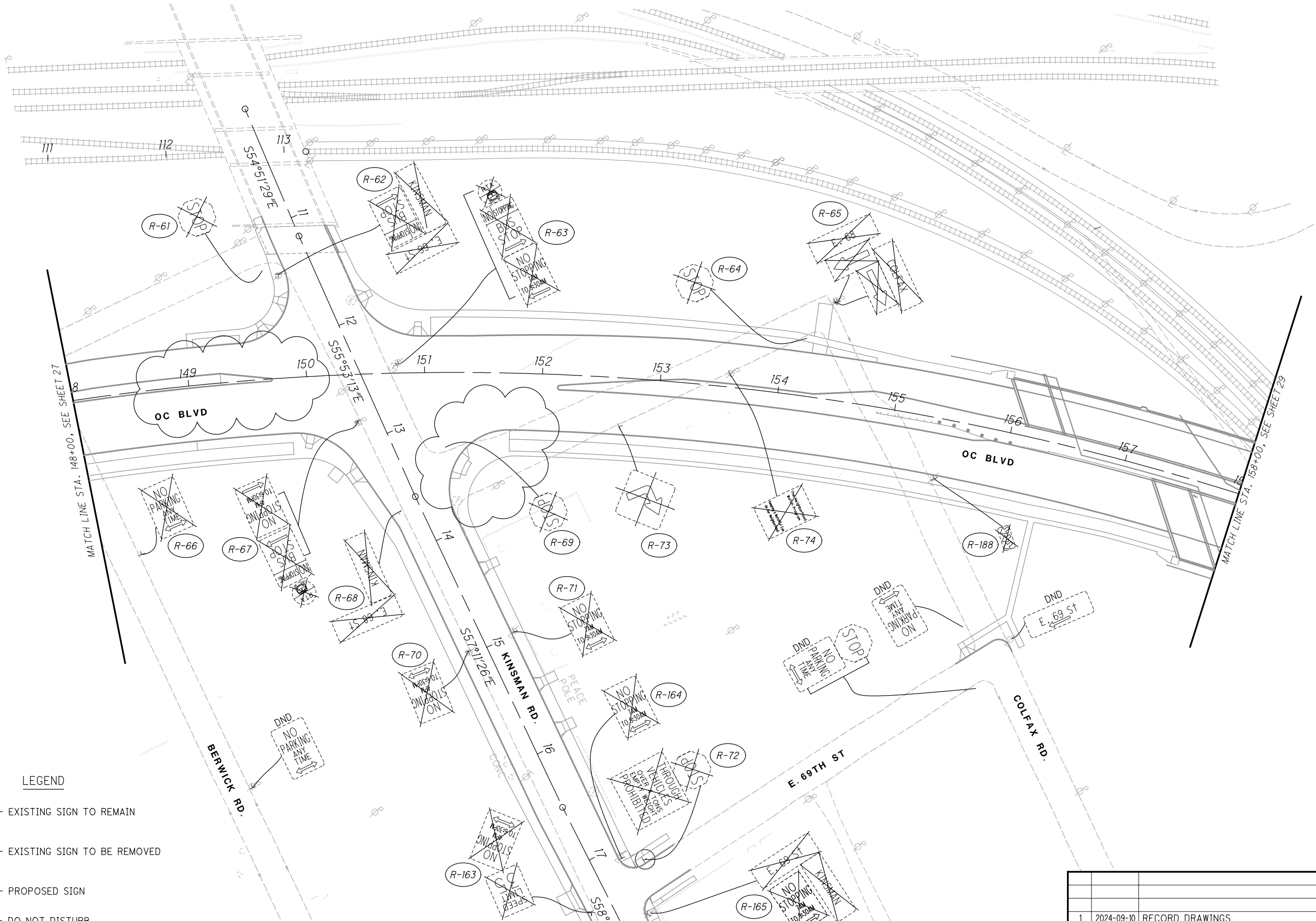
27
117

RECORD PLANS

RECORD PLANS

RECORD PLANS

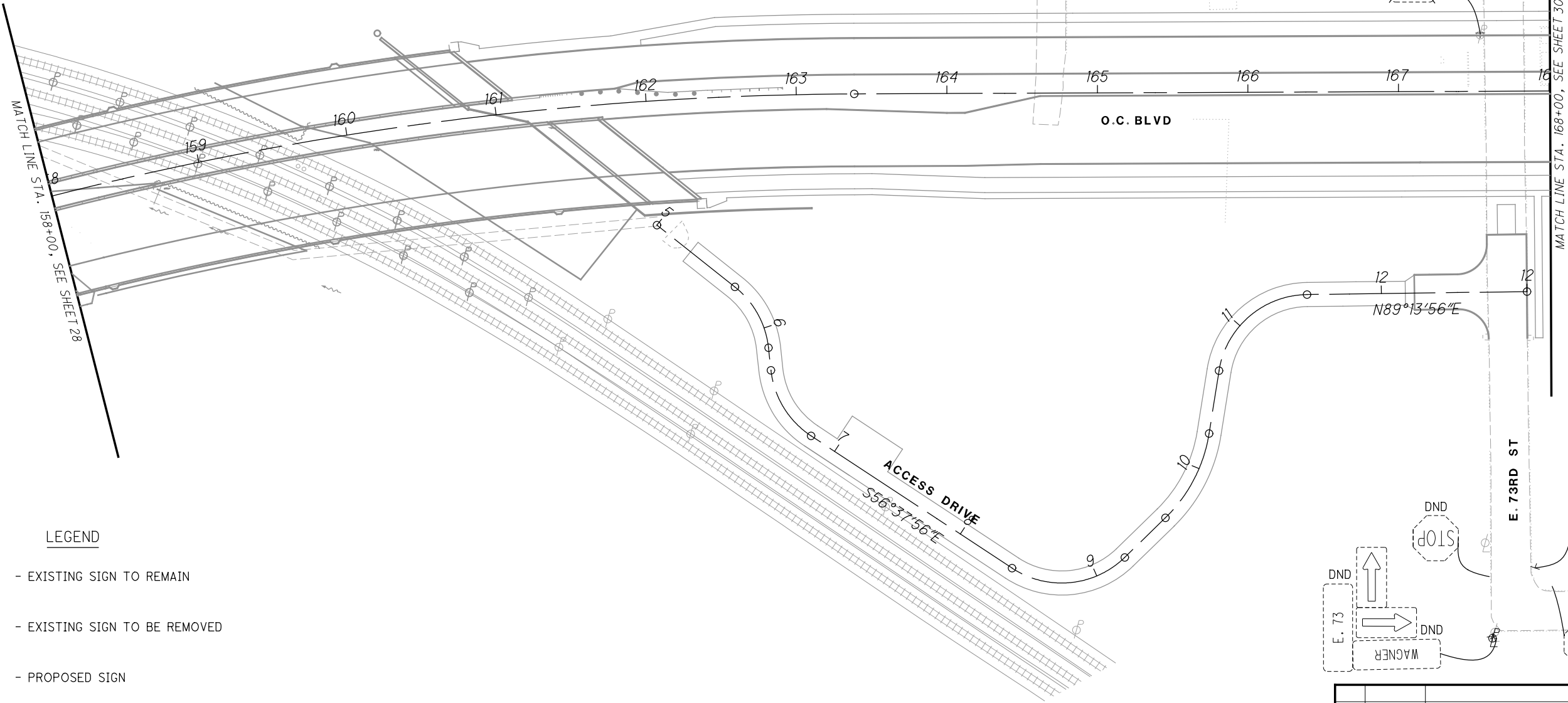
- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB



| NO. | DATE | DESCRIPTION |
|--------------|------------|-----------------|
| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

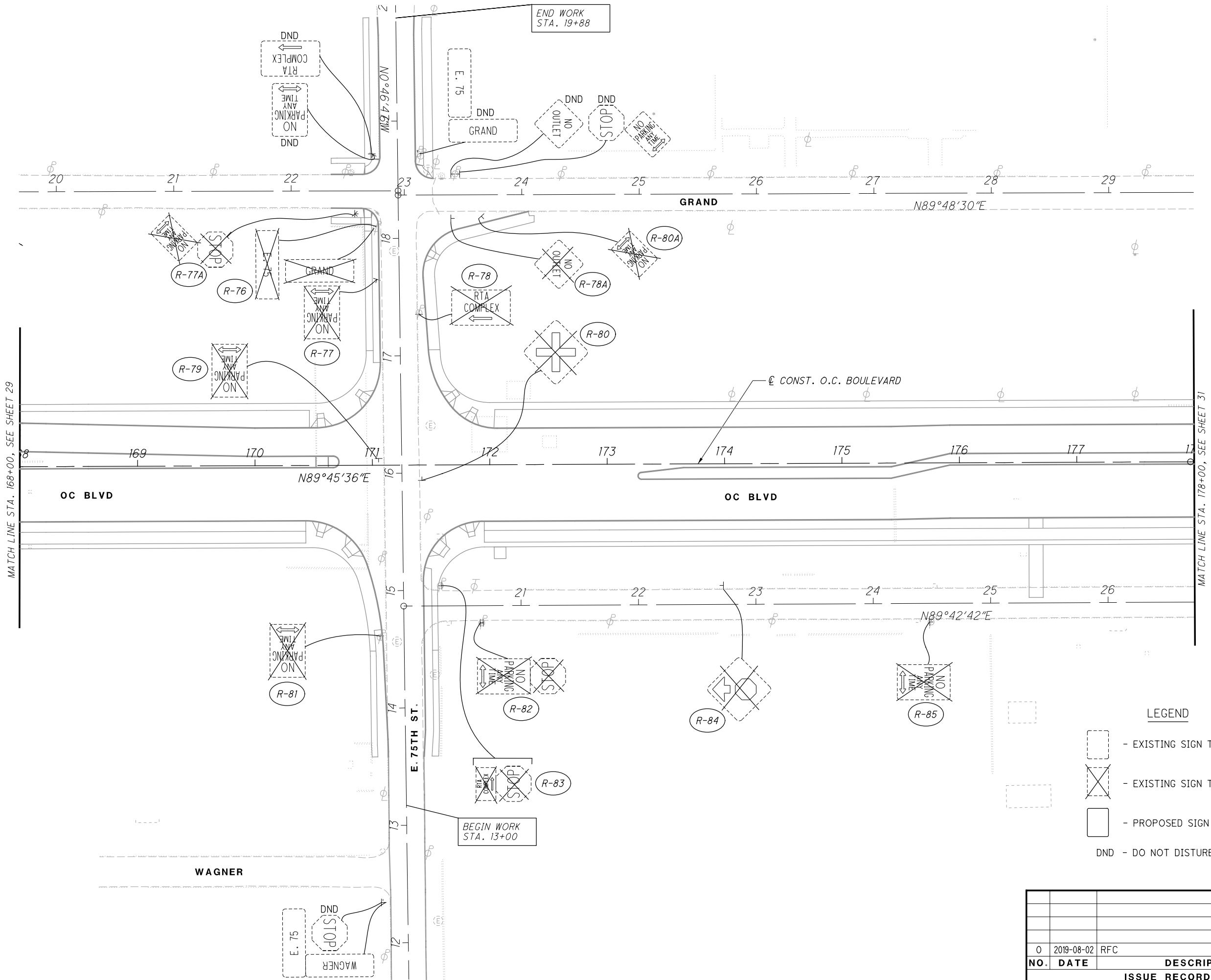
- LEGEND**
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB

MATCH LINE STA. 158+00, SEE SHEET 28



| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 0 | 2019-08-02 | RFC |

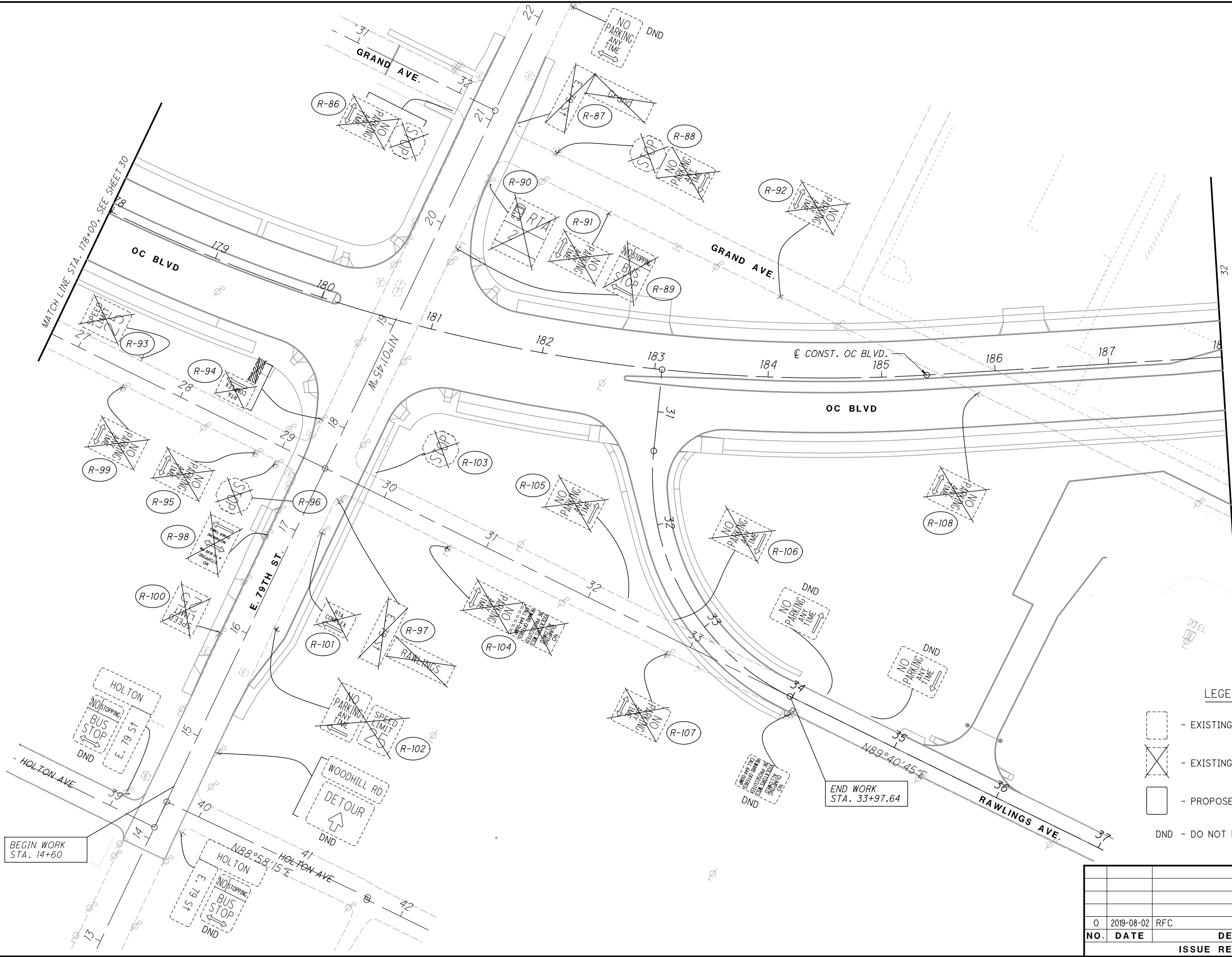




LEGEND

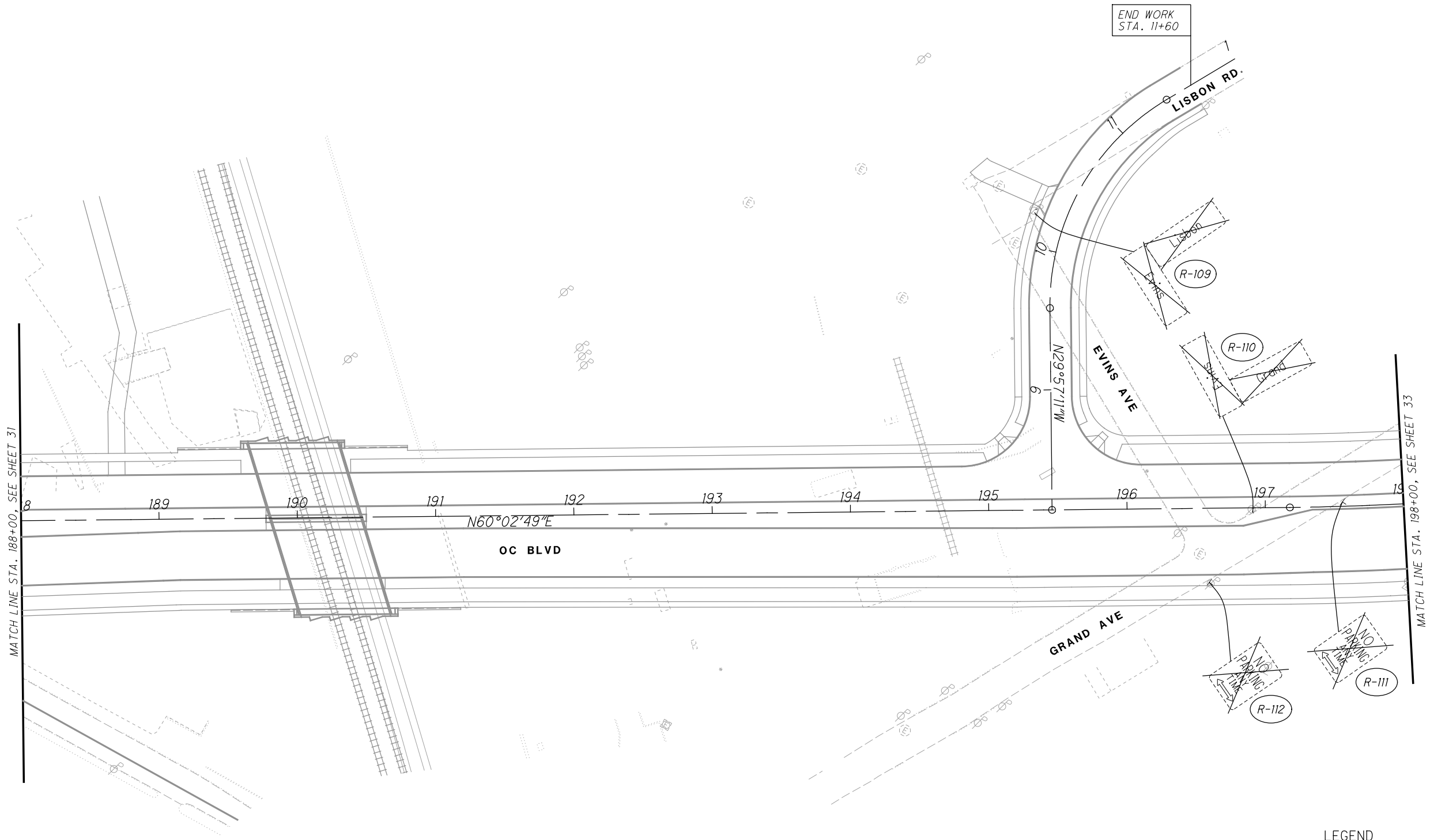
- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

| NO. | | DATE | DESCRIPTION |
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| 0 | | 2019-08-02 | RFC |
| | | ISSUE RECORD | |



- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB

| 0 | 2019-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |



LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

| 0 | 2018-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

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117

CUY-IR490/ SR010-
2.09 / 19.28

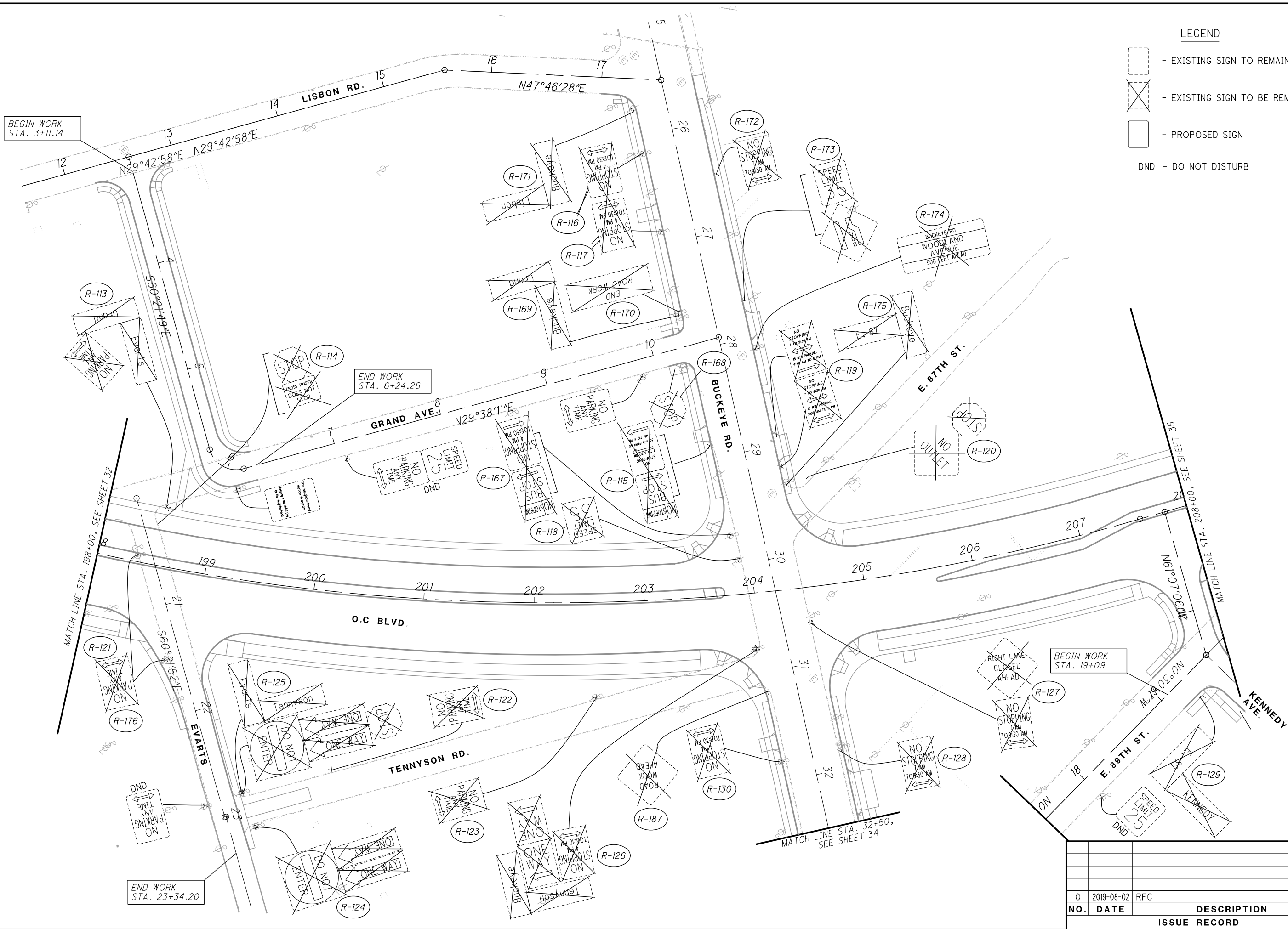
EXISTING SIGNING PLAN
OC BLVD. - STA. 188+00 TO STA. 198+00

CALCULATED WCB
CHECKED JFM

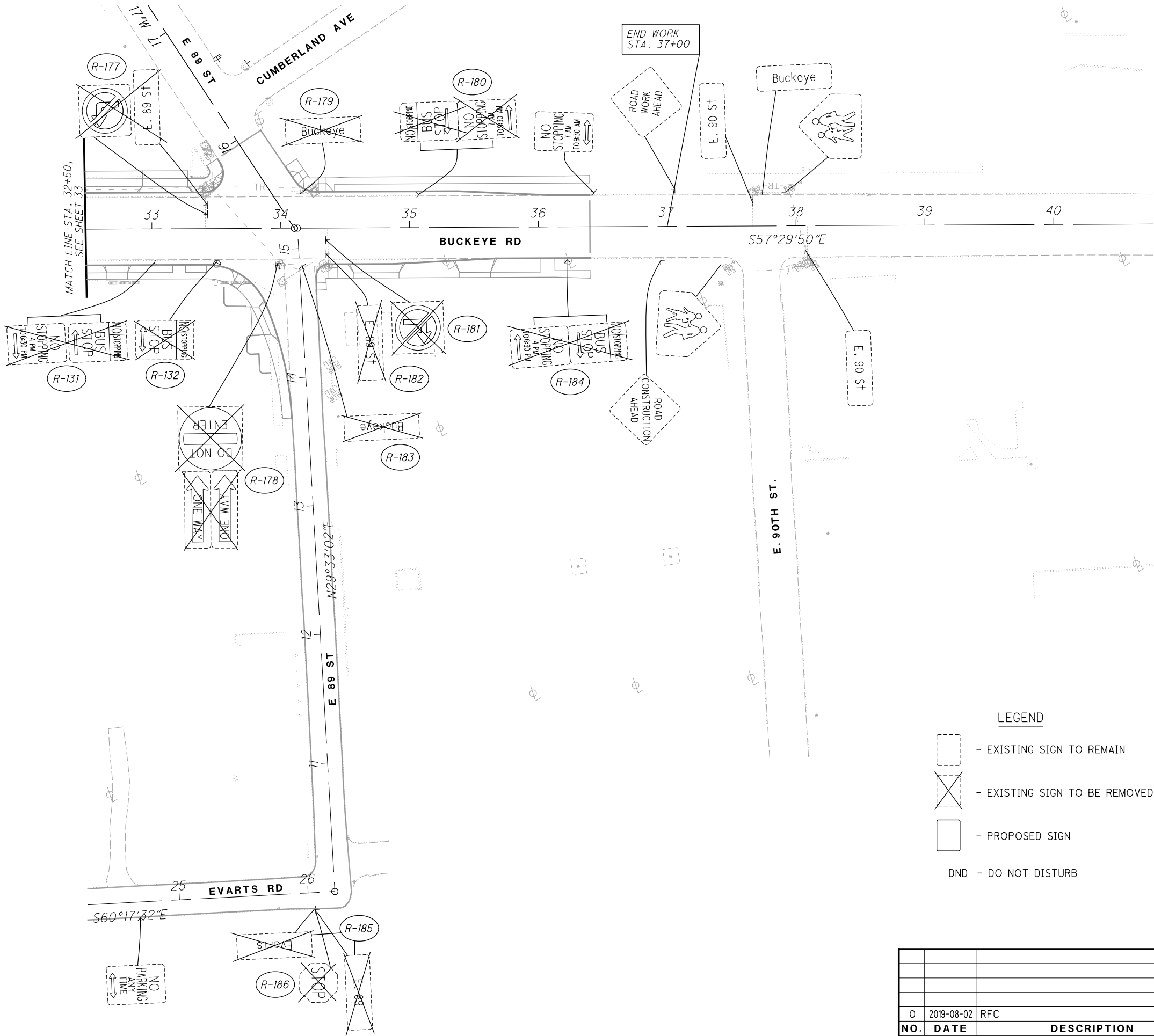
RECORD PLANS

RECORD PLANS

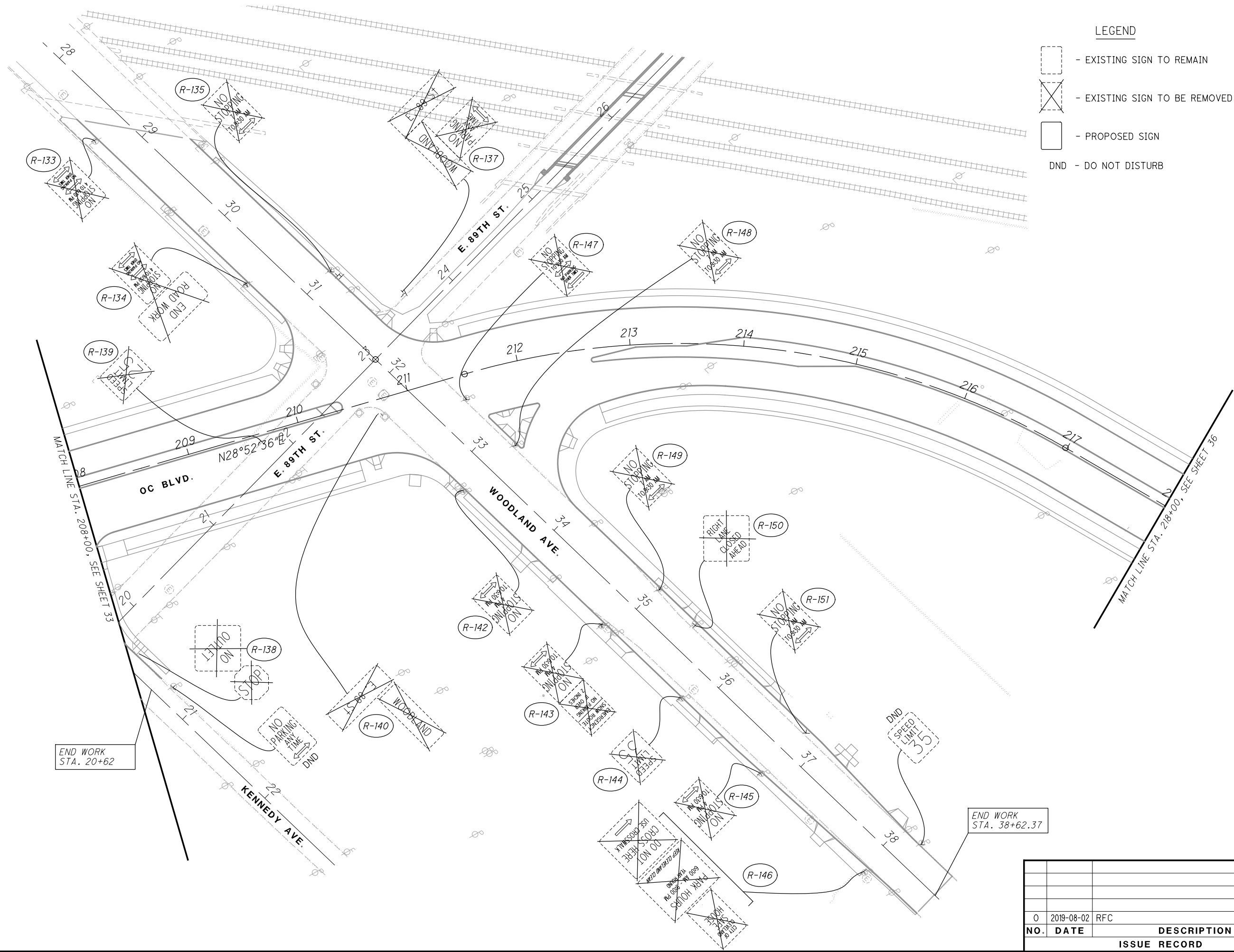
RECORD PLANS



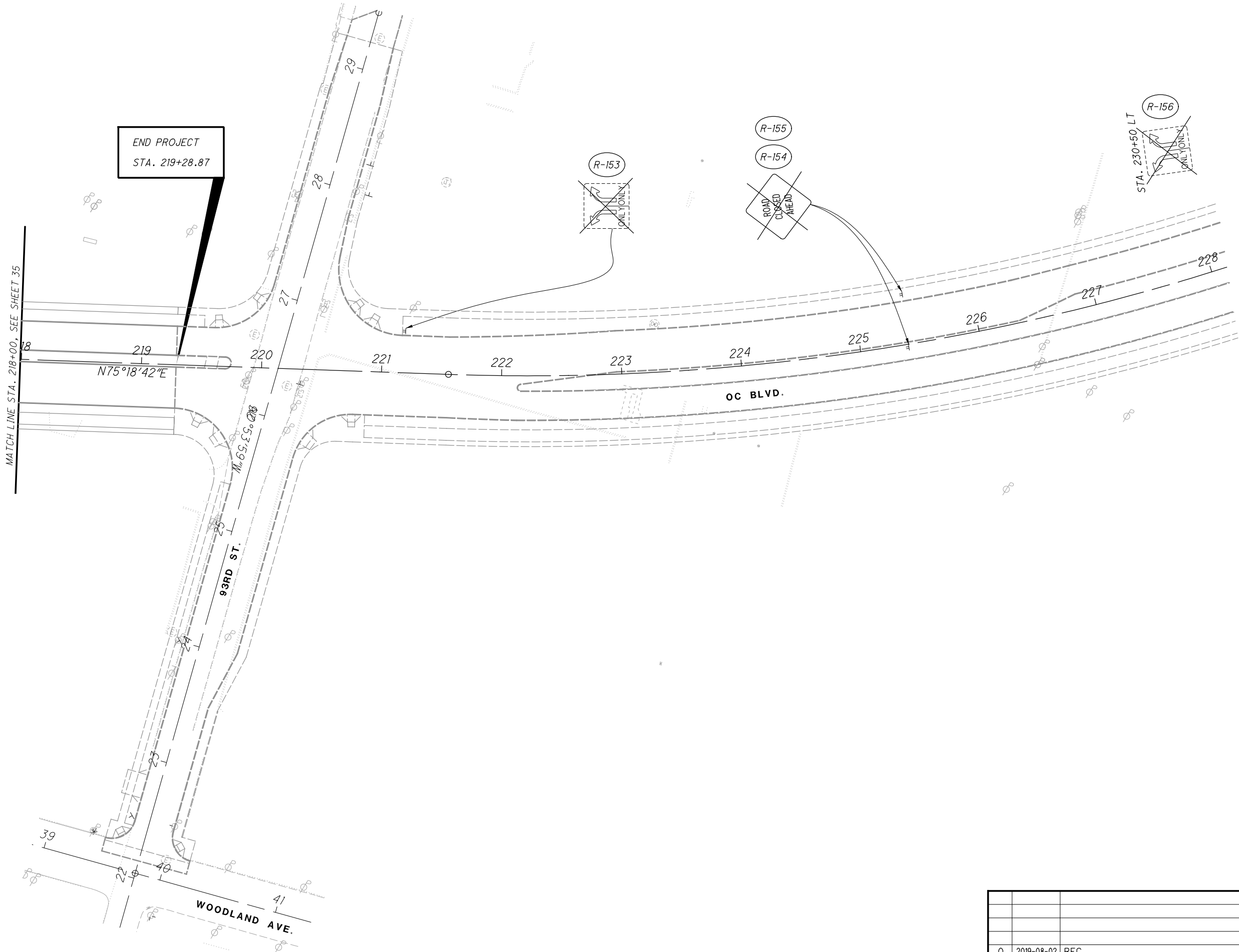
| | | |
|------------|-------------|---------------------|
| | | |
| | | |
| | | |
| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| | | ISSUE RECORD |



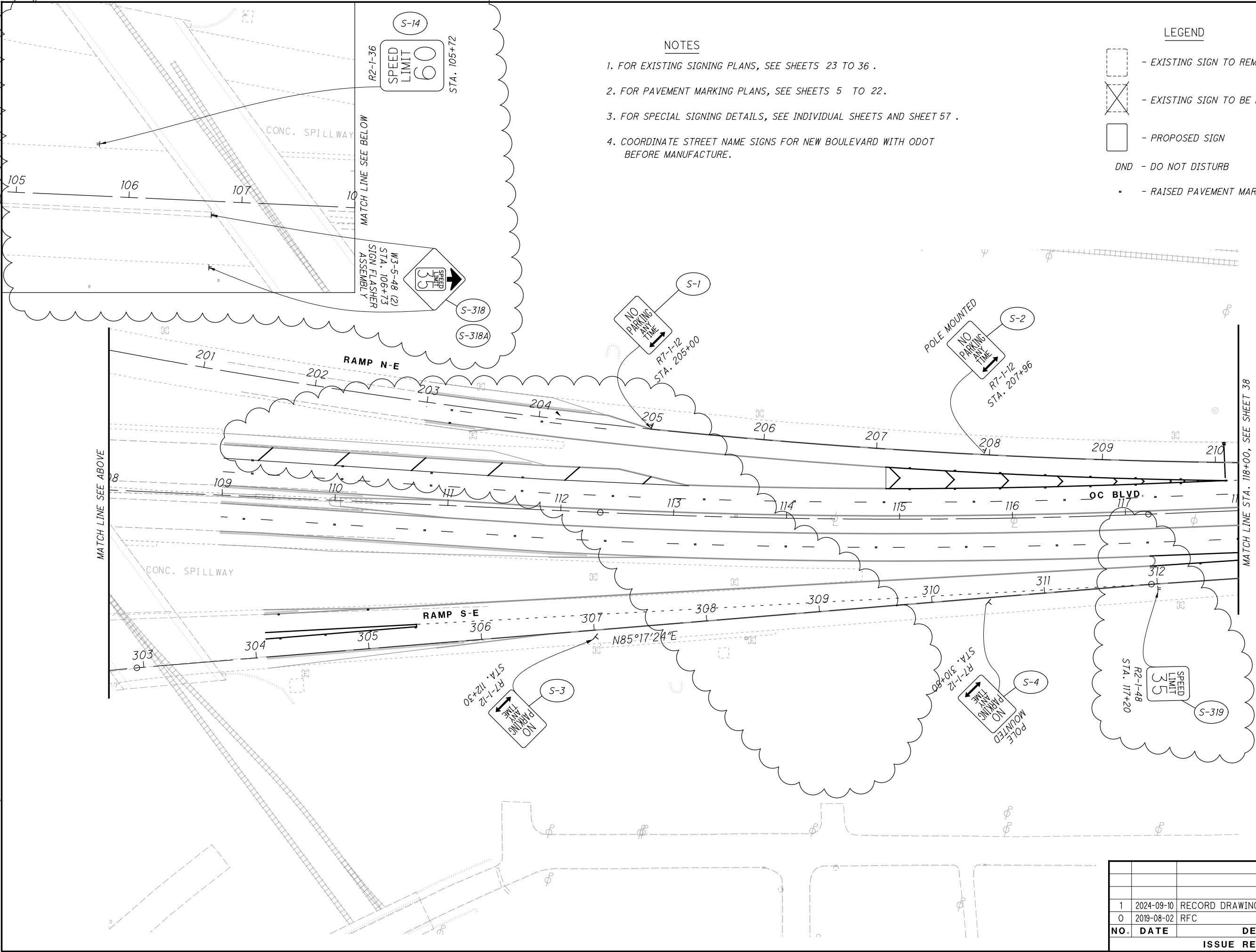
| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 0 | 2019-08-02 | RFC |



| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 0 | 2018-08-02 | RFC |



| 0 | 2019-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |



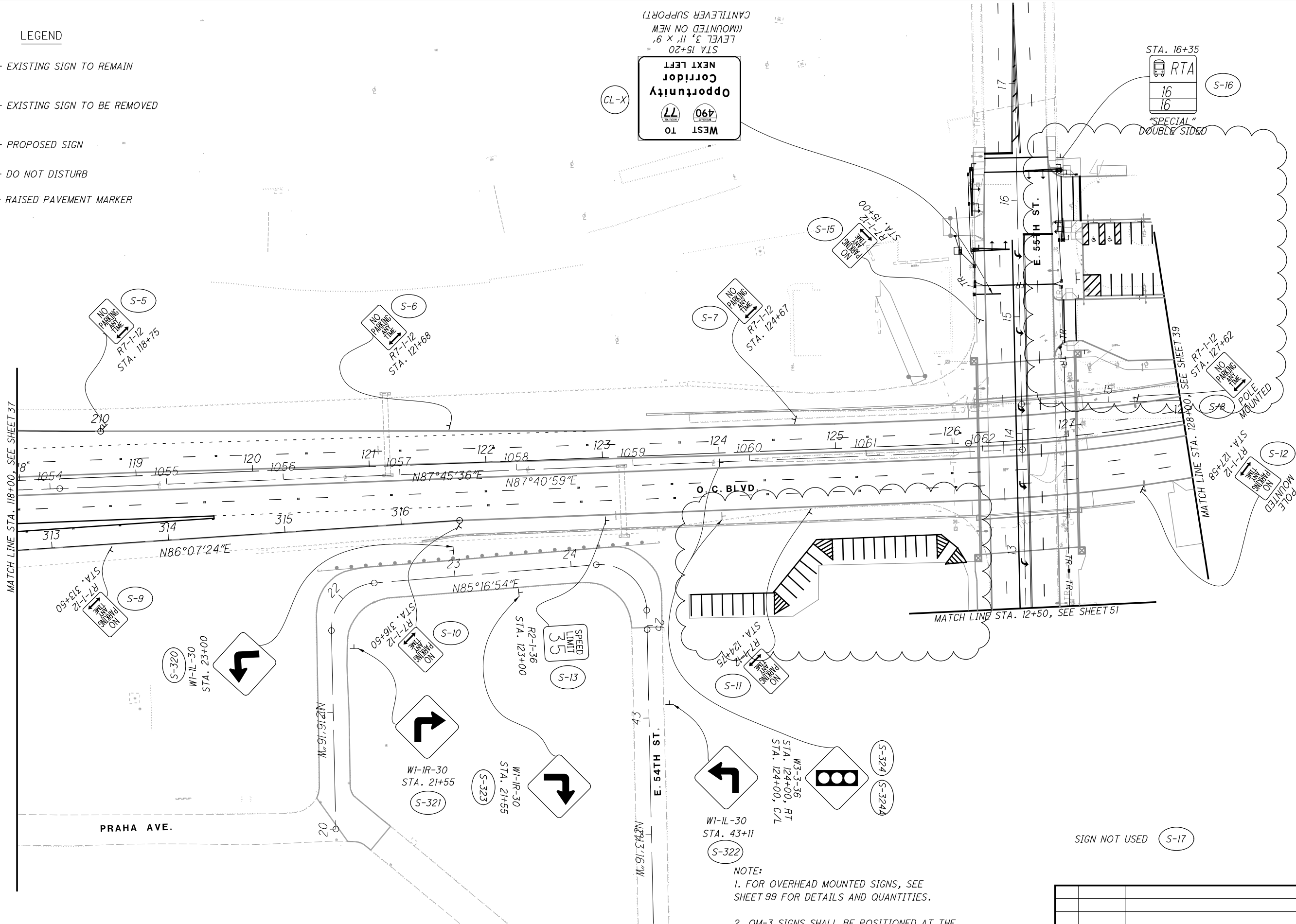
- NOTES**
1. FOR EXISTING SIGNING PLANS, SEE SHEETS 23 TO 36 .
 2. FOR PAVEMENT MARKING PLANS, SEE SHEETS 5 TO 22.
 3. FOR SPECIAL SIGNING DETAILS, SEE INDIVIDUAL SHEETS AND SHEET 57 .
 4. COORDINATE STREET NAME SIGNS FOR NEW BOULEVARD WITH ODOT BEFORE MANUFACTURE.

- LEGEND**
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB
 - RAISED PAVEMENT MARKER

| NO. | DATE | DESCRIPTION |
|--------------|------------|-----------------|
| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB
- RAISED PAVEMENT MARKER



NOTE:
1. FOR OVERHEAD MOUNTED SIGNS, SEE SHEET 99 FOR DETAILS AND QUANTITIES.
2. OM-3 SIGNS SHALL BE POSITIONED AT THE OUTSIDE CORNER OF THE PYLON APPROACH.

| NO. | DATE | DESCRIPTION |
|--------------|------------|-----------------|
| | | |
| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

CUY-IR490/ SR010-
2.09 / 19.28

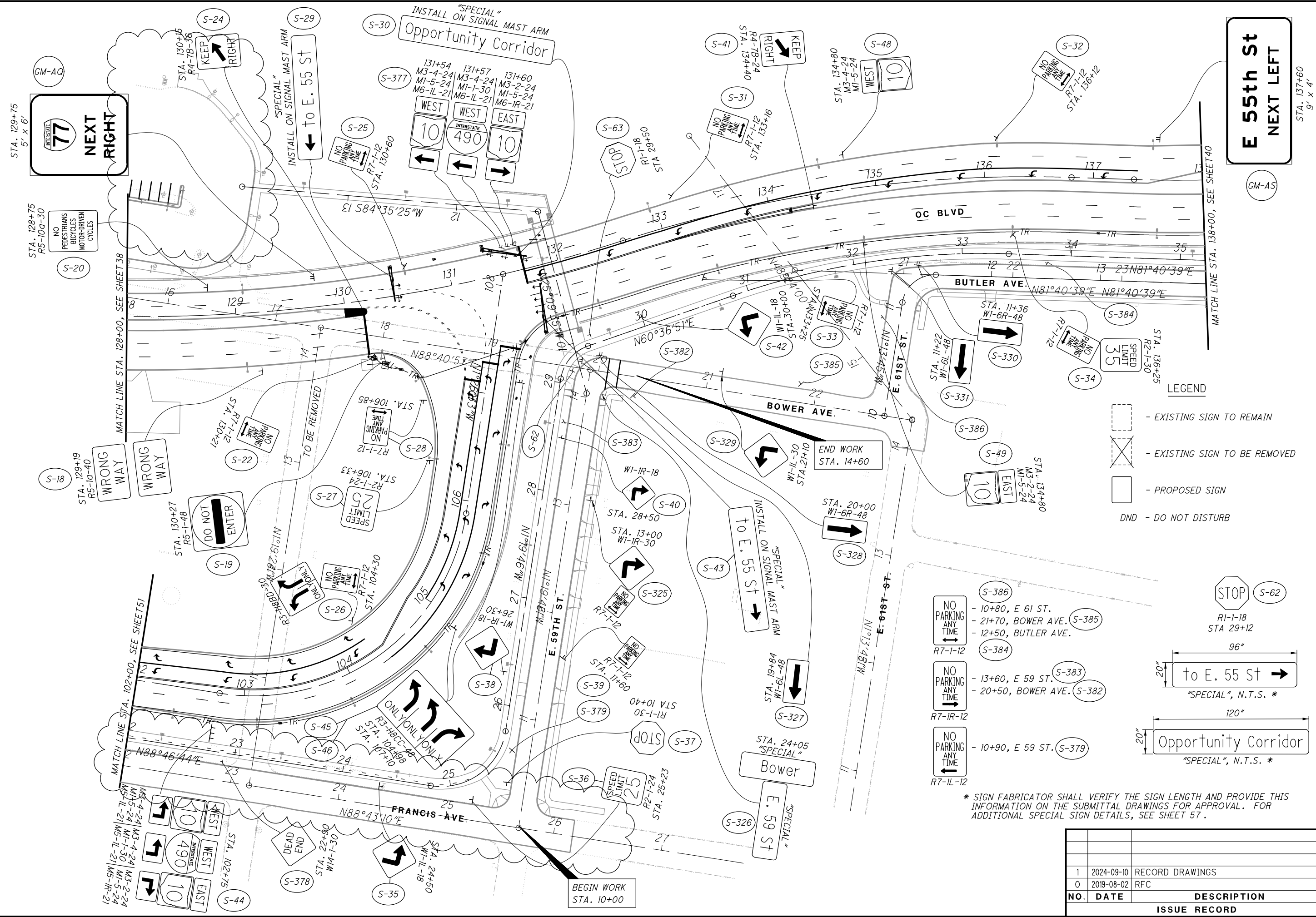
SIGNING PLAN
OC BLVD. - STA. 118+00 TO STA. 128+00

RECORD PLANS

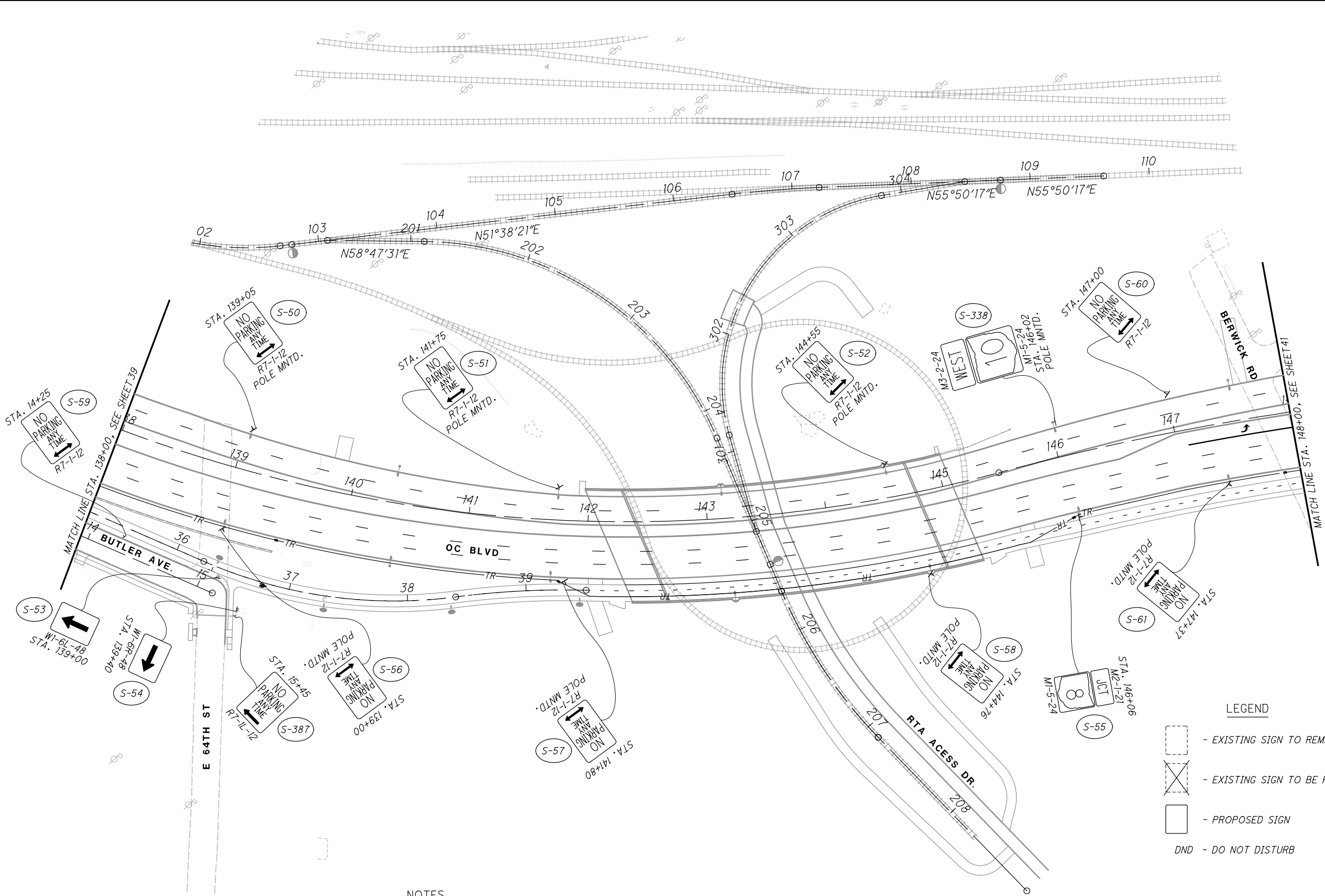
RECORD PLANS



CALCULATED
WCB
CHECKED
JFM



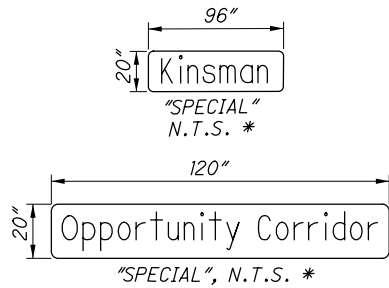
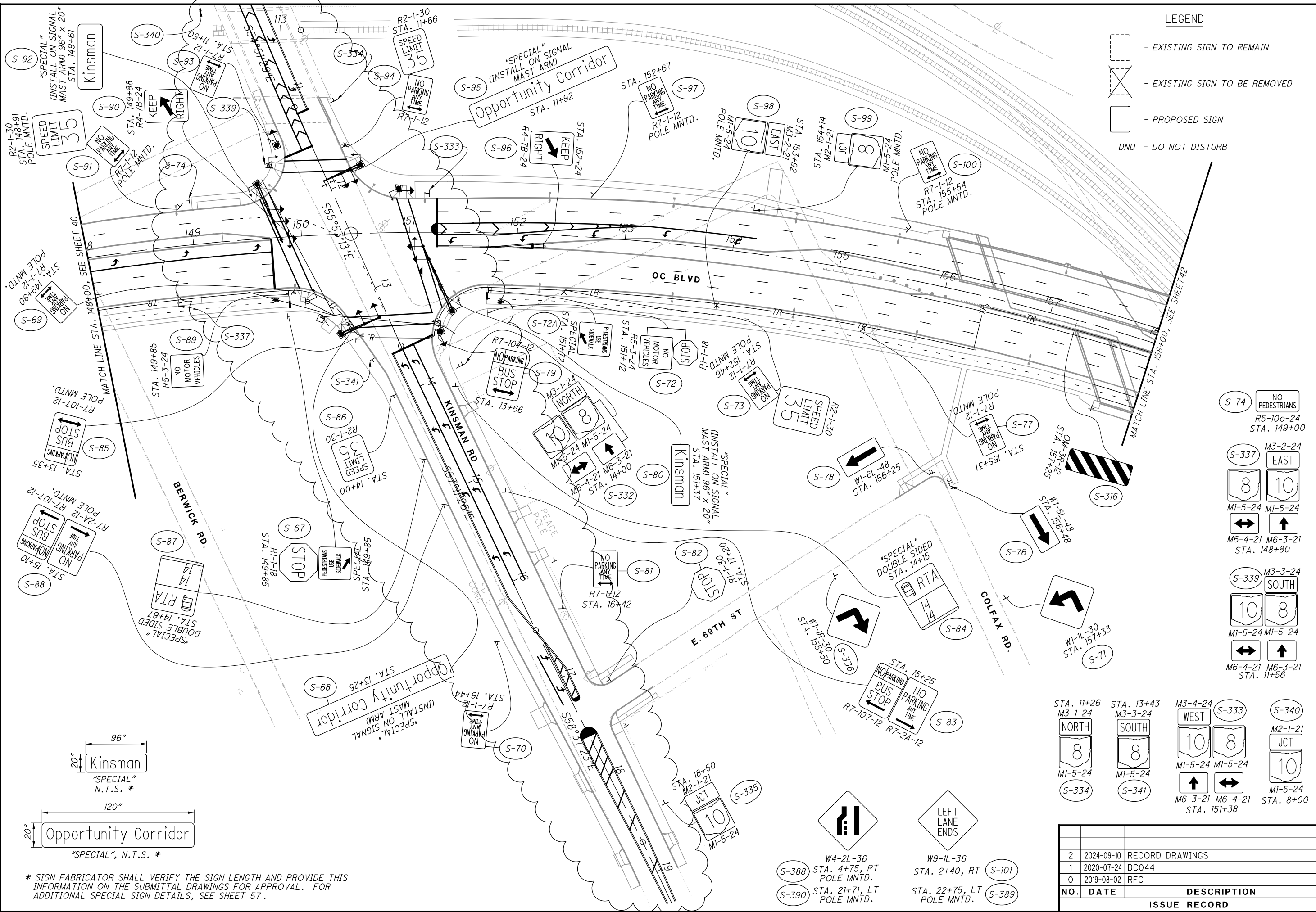
| NO. | DATE | DESCRIPTION |
|-----|------------|-----------------|
| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
| | | ISSUE RECORD |



NOTES

- 1. FOR EXISTING SIGNING PLANS, SEE SHEETS 23 TO 36 .
- 2. FOR PAVEMENT MARKING PLANS, SEE SHEETS 5 TO 22.

| NO. | DATE | DESCRIPTION |
|--------------|------------|-------------|
| | | |
| 0 | 2018-08-02 | RFC |
| ISSUE RECORD | | |



* SIGN FABRICATOR SHALL VERIFY THE SIGN LENGTH AND PROVIDE THIS INFORMATION ON THE SUBMITTAL DRAWINGS FOR APPROVAL. FOR ADDITIONAL SPECIAL SIGN DETAILS, SEE SHEET 57.

- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB

- S-74 NO PEDESTRIANS R5-10c-24 STA. 149+00
- S-337 M3-2-24 EAST MI-5-24 MI-5-24 M6-4-21 M6-3-21 STA. 148+80
- S-339 M3-3-24 SOUTH MI-5-24 MI-5-24 M6-4-21 M6-3-21 STA. 11+56

- STA. 11+26 M3-1-24 NORTH MI-5-24 S-334
- STA. 13+43 M3-3-24 SOUTH MI-5-24 S-341
- M3-4-24 WEST MI-5-24 MI-5-24 M6-3-21 M6-4-21 STA. 151+38
- S-340 M2-1-21 JCT MI-5-24 STA. 8+00

- S-388 W4-2L-36 STA. 4+75, RT POLE MNTD.
- S-390 STA. 21+71, LT POLE MNTD.
- W9-IL-36 STA. 2+40, RT S-101
- STA. 22+75, LT POLE MNTD. S-389

| ISSUE RECORD | | |
|--------------|------------|-----------------|
| NO. | DATE | DESCRIPTION |
| 2 | 2024-09-10 | RECORD DRAWINGS |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |

MATCH LINE STA. 158+00, SEE SHEET 41

STA. 158+52
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-102

OM-3P-12
STA. 161+14
S-317

STA. 161+51
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-103

STA. 162+94
SPEED LIMIT
35
R2-1-30
POLE MNTD.
S-104

STA. 164+34
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-105

STA. 13+00
W14-1-30
DEAD
END
S-106

OM4-3-18 (3)
STA. 11+60
S-107
S-108
S-109

STA. 167+17
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-110

STA. 158+26
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-115

STA. 161+30
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-116




STA. 164+42
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-117

STA. 165+79
SPEED LIMIT
35
R2-1-30
POLE MNTD.
S-118

STA. 167+22
NO PARKING
ANY TIME
R7-1-12
POLE MNTD.
S-119

OM4-3-18 (2)
STA. 12+53
S-120
S-121

LEGEND

-  - EXISTING SIGN TO REMAIN
-  - EXISTING SIGN TO BE REMOVED
-  - PROPOSED SIGN

DND - DO NOT DISTURB

GRAND AVE.

OC BLVD

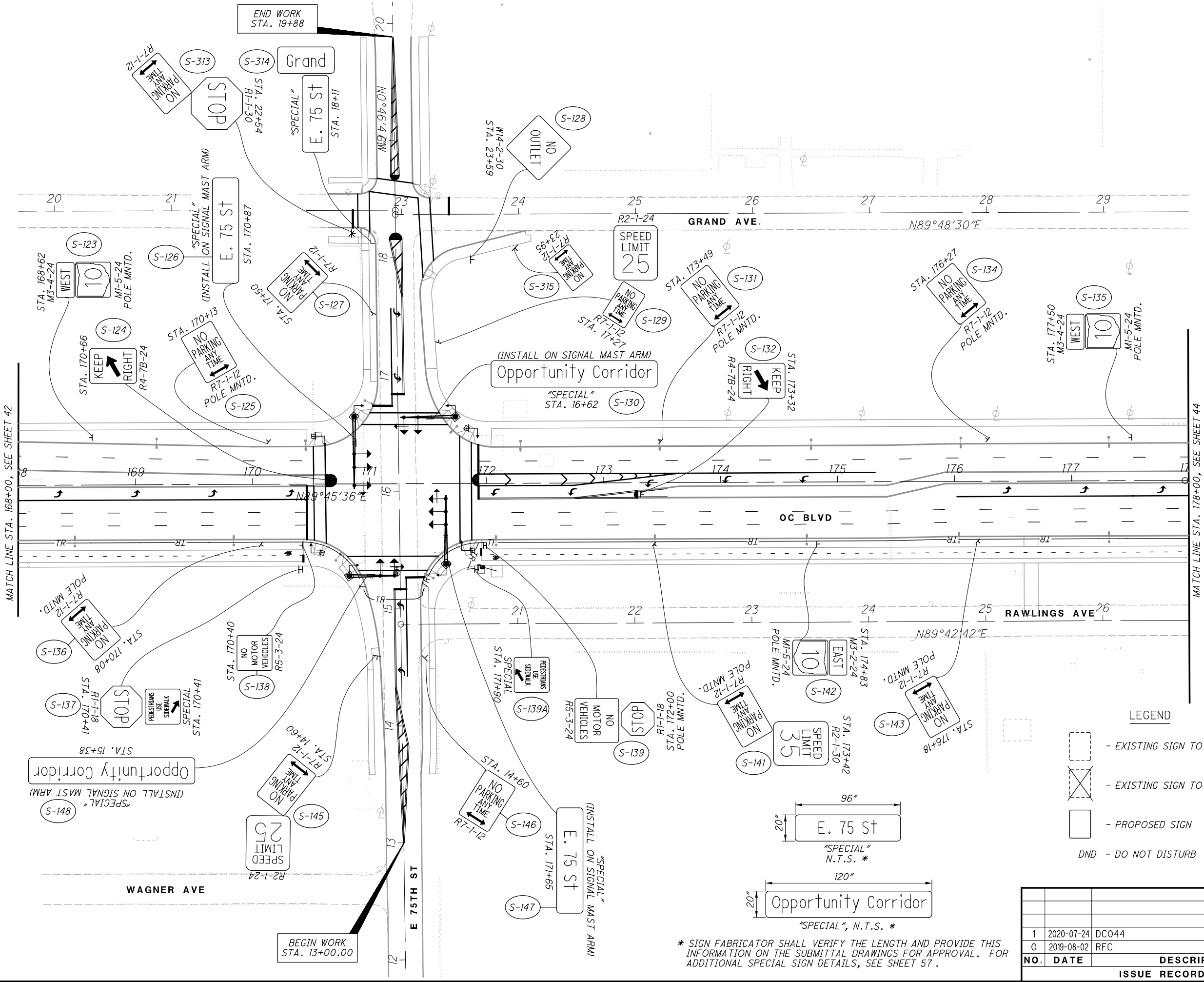
ACCESS DRIVE
S56°37'56"E

E. 71ST ST.

E. 73RD ST

MATCH LINE STA. 168+00, SEE SHEET 43

| NO. | | DATE | DESCRIPTION |
|--------------|------------|------|-------------|
| 0 | 2018-08-02 | RFC | |
| ISSUE RECORD | | | |

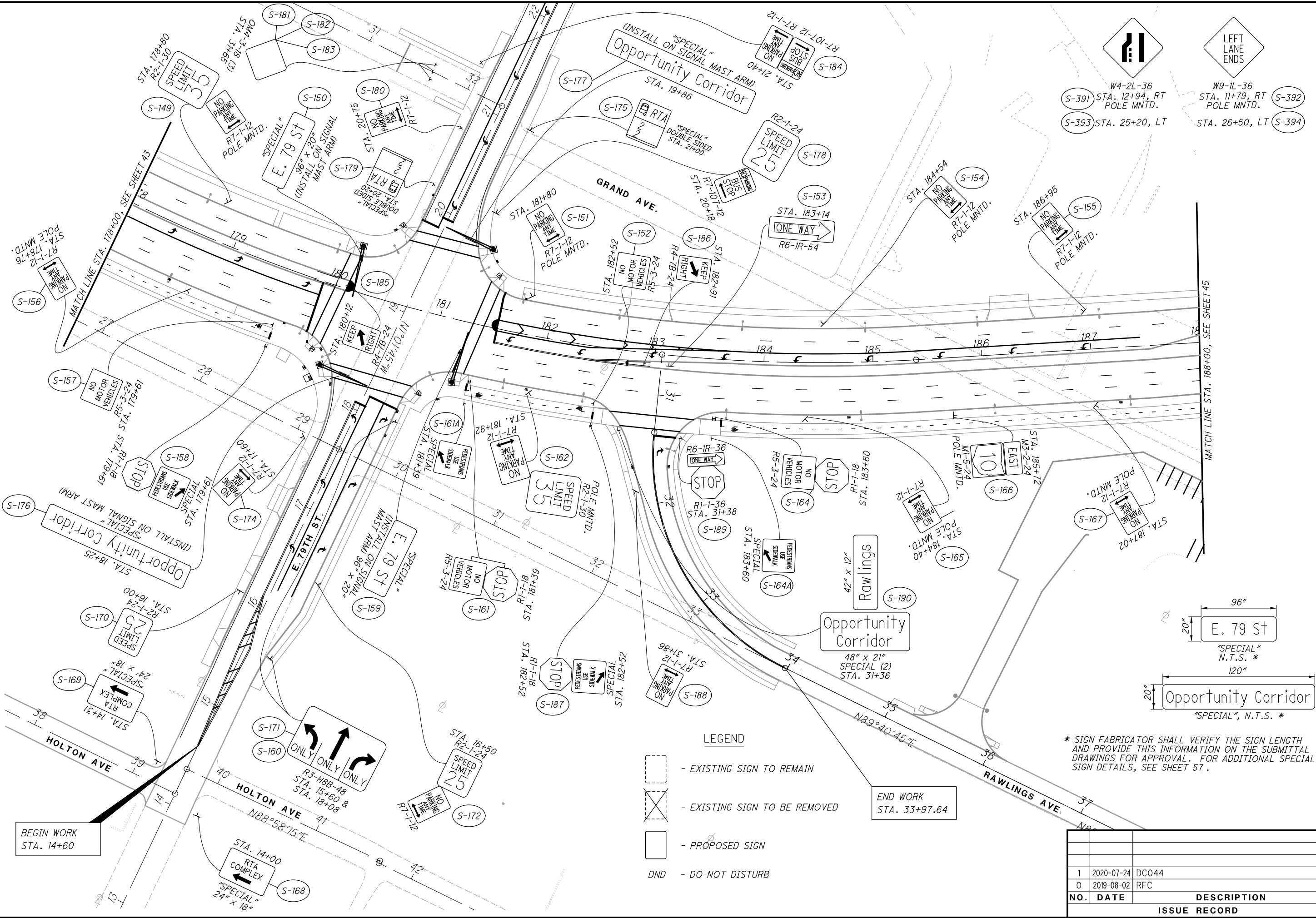


LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

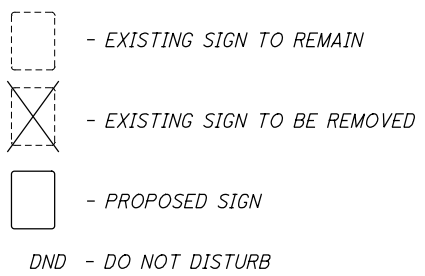
* SIGN FABRICATOR SHALL VERIFY THE LENGTH AND PROVIDE THIS INFORMATION ON THE SUBMITTAL DRAWINGS FOR APPROVAL. FOR ADDITIONAL SPECIAL SIGN DETAILS, SEE SHEET 57.

| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |



* SIGN FABRICATOR SHALL VERIFY THE SIGN LENGTH AND PROVIDE THIS INFORMATION ON THE SUBMITTAL DRAWINGS FOR APPROVAL. FOR ADDITIONAL SPECIAL SIGN DETAILS, SEE SHEET 57.

| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |



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* SIGN FABRICATOR SHALL VERIFY THE SIGN LENGTH AND PROVIDE THIS INFORMATION ON THE SUBMITTAL DRAWINGS FOR APPROVAL. FOR ADDITIONAL SPECIAL SIGN DETAILS, SEE SHEET 57.

**
SPEED LIMIT 35
R2-I-30
STA. 206+20

THROUGH TRAFFIC
KEEP LEFT
R4-HI2-36
STA. 205+50

RIGHT LANE
MUST
TURN RIGHT
AT SIGNAL
R3-7-36 (MOD.)
STA. 207+24

POLE MOUNTED ABOVE
PROPOSED R7-I-12 SIGN.
S-231

LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

STOP
NO MOTOR VEHICLES
R1-I-18
R5-3-24
STA. 205+07 RT.

KEEP RIGHT
R4-7B-24
STA. 203+70 LT.
STA. 205+80 RT.

S-223
S-225
S-226

96"
20"
Buckeye
"SPECIAL"
N.T.S. *

120"
20"
Opportunity Corridor
"SPECIAL", N.T.S. *

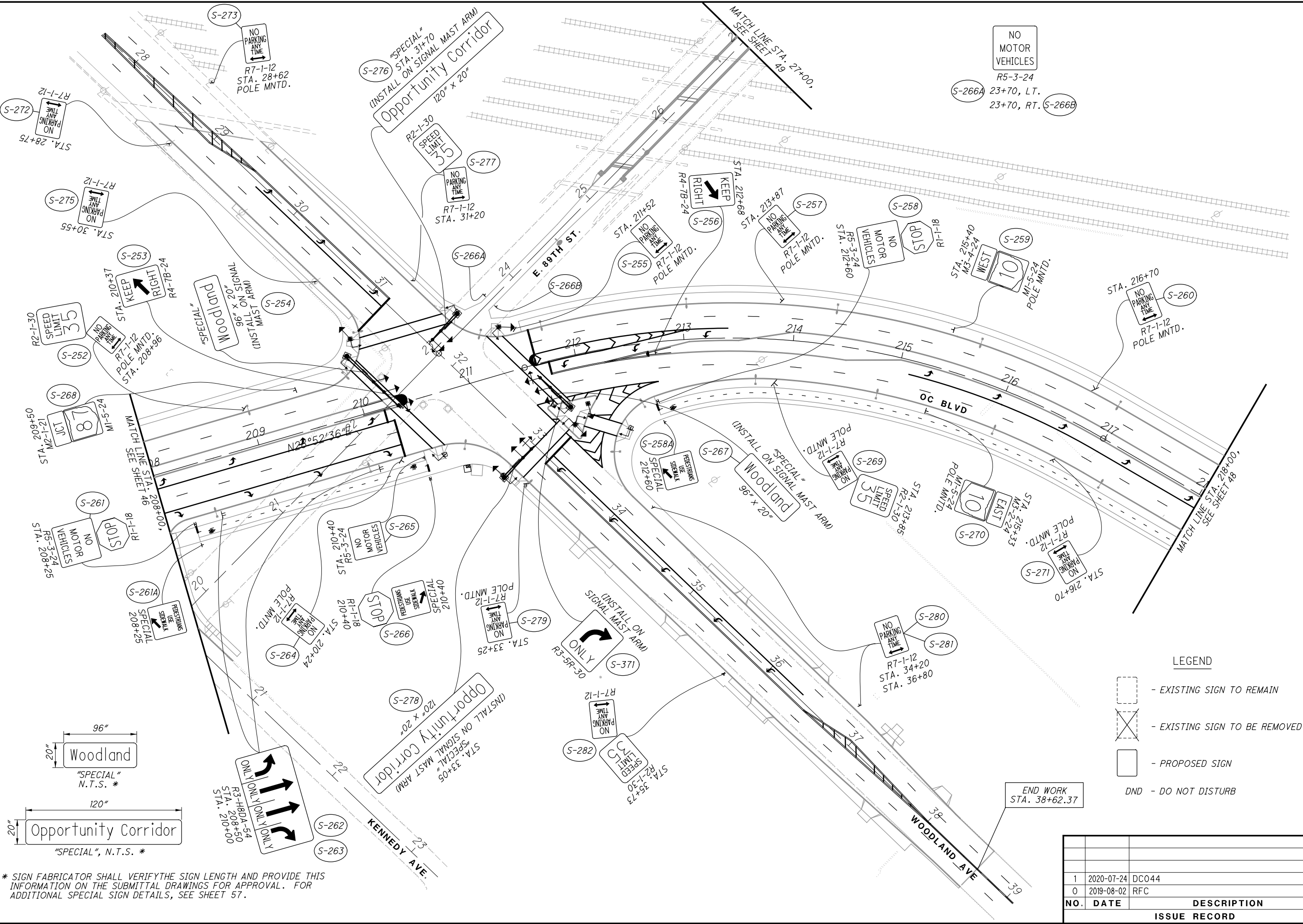
SPECIAL (2)
STA. 207+60
48" x 21"
Opportunity Corridor
Kennedy
42" x 12"



SIGNING PLAN
OC BLVD. - STA. 198+00 TO STA. 208+00
RECORD PLANS

CUY-IR490/SR010-
2.09/19.28
RECORD PLANS

| NO. | DATE | DESCRIPTION |
|--------------|------------|-------------|
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

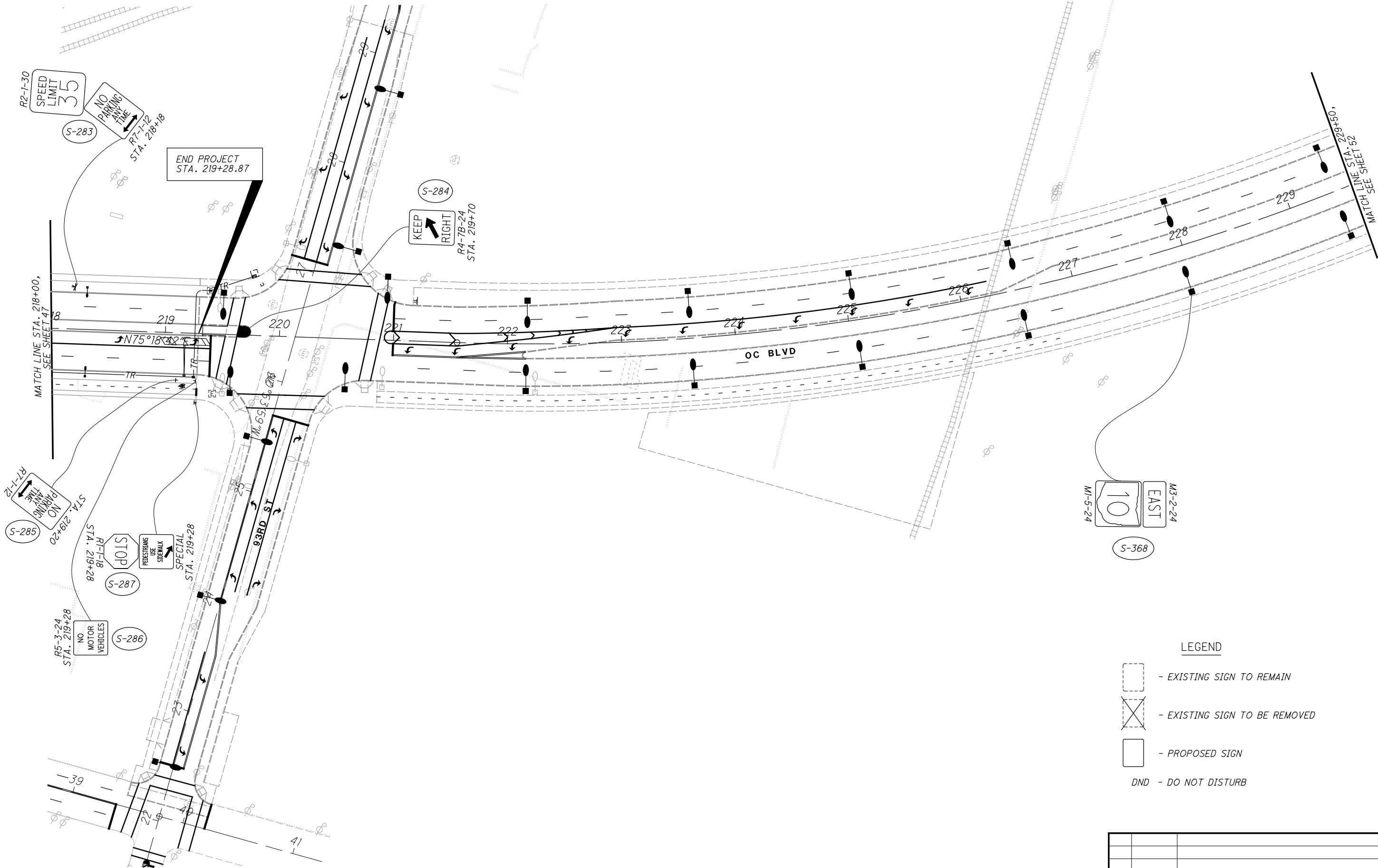


* SIGN FABRICATOR SHALL VERIFY THE SIGN LENGTH AND PROVIDE THIS INFORMATION ON THE SUBMITTAL DRAWINGS FOR APPROVAL. FOR ADDITIONAL SPECIAL SIGN DETAILS, SEE SHEET 57.

LEGEND

- EXISTING SIGN TO REMAIN
- EXISTING SIGN TO BE REMOVED
- PROPOSED SIGN
- DND - DO NOT DISTURB

| NO. | DATE | DESCRIPTION |
|--------------|------------|-------------|
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |



| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |

- LEGEND
- EXISTING SIGN TO REMAIN
 - EXISTING SIGN TO BE REMOVED
 - PROPOSED SIGN
 - DND - DO NOT DISTURB

CALCULATED WCB
CHECKED JFM

48
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SIGNING PLAN

OC BLVD. - STA. 218+00 TO END

2.09 / 19.28

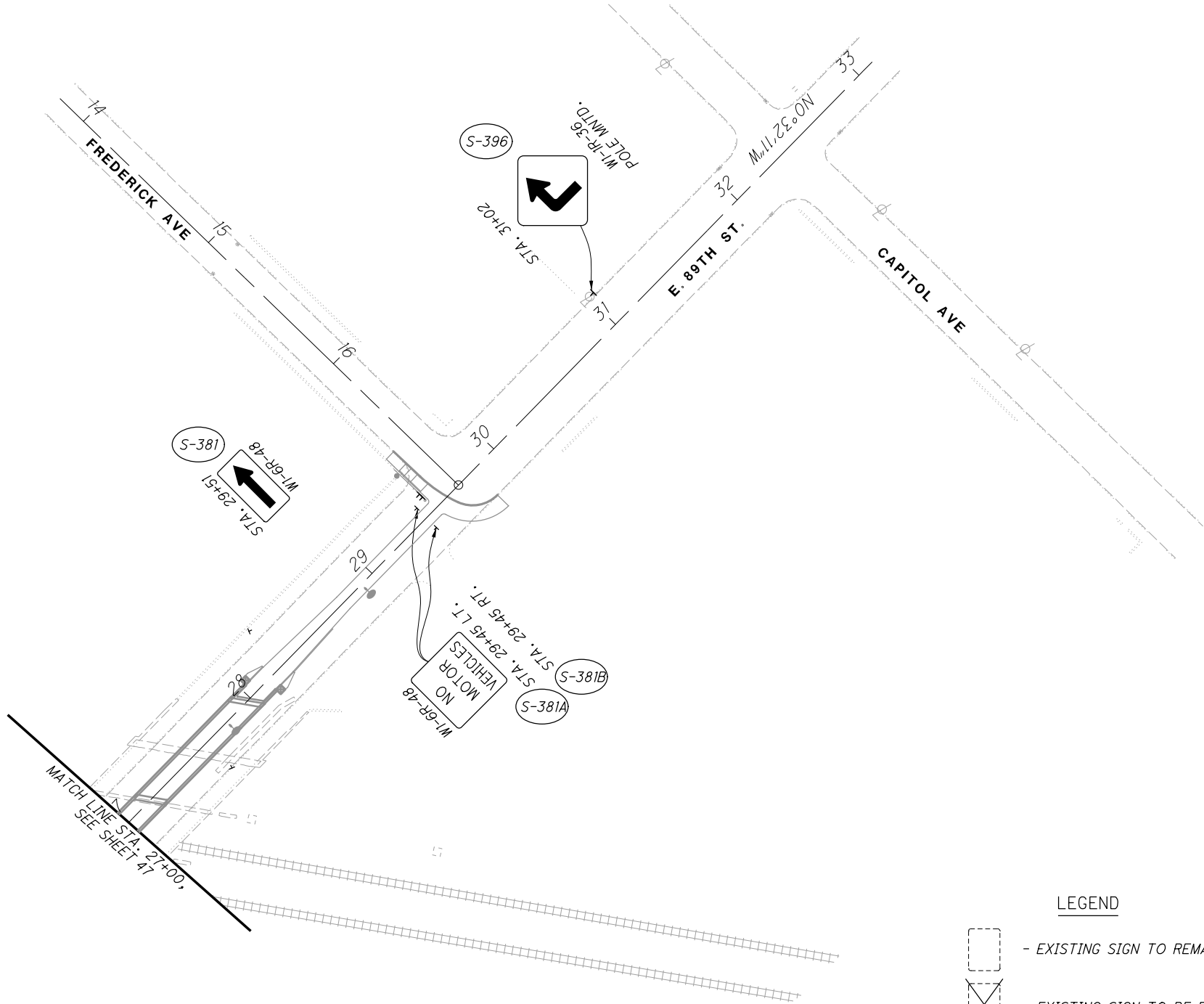
RECORD PLANS




RECORD PLANS

RECORD PLANS

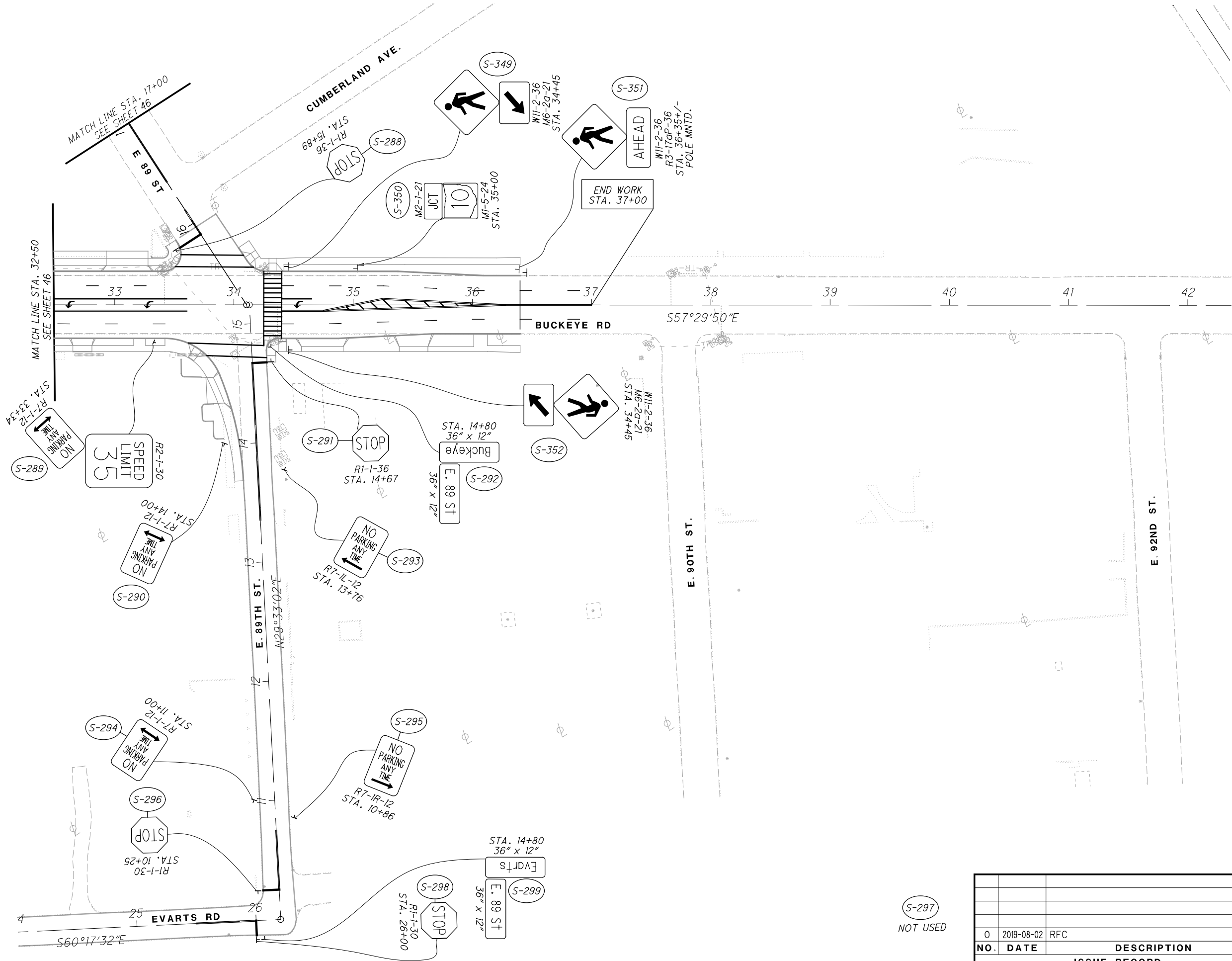
0 20 40 80
HORIZONTAL
SCALE IN FEET

RECORD PLANS

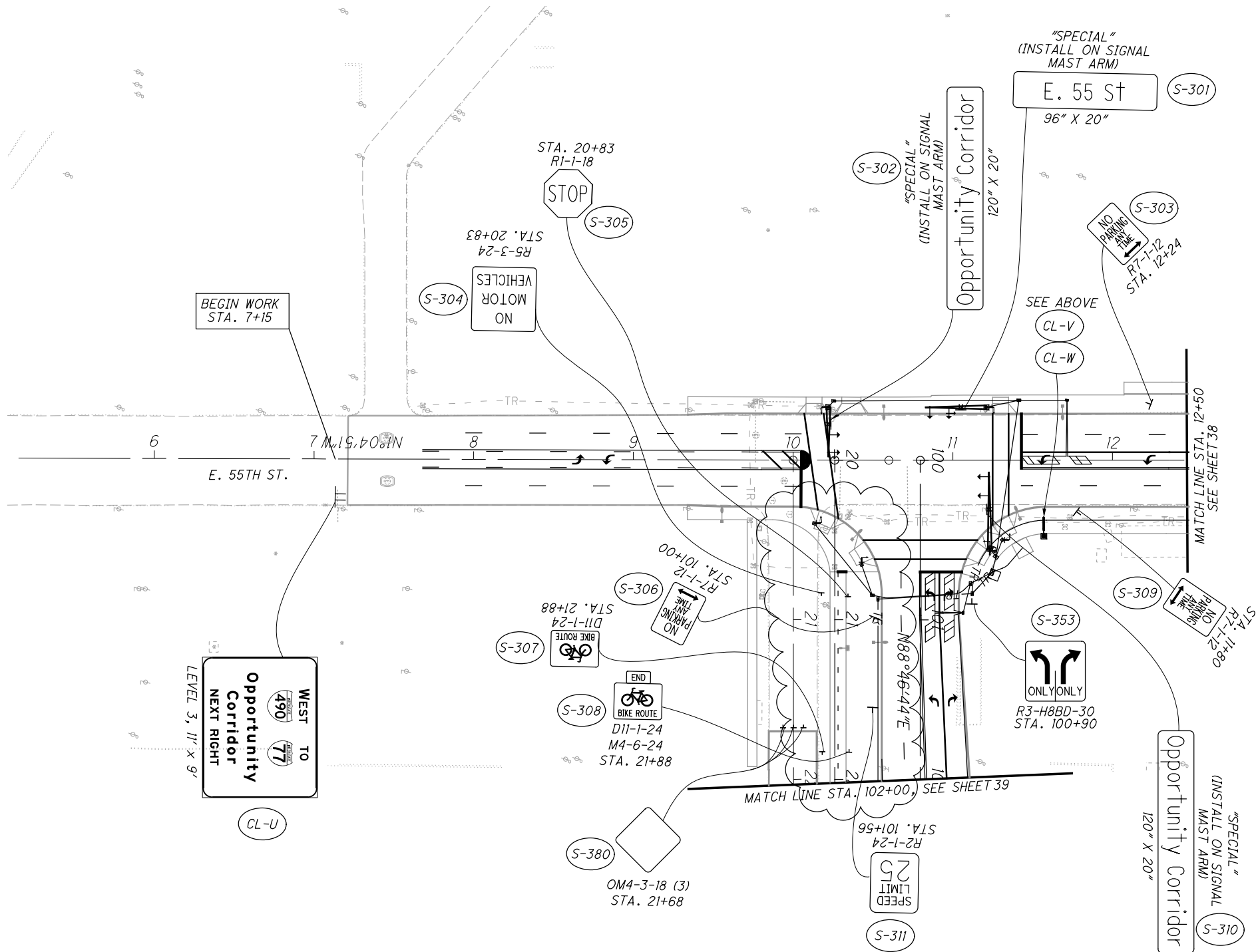


- LEGEND
-  - EXISTING SIGN TO REMAIN
 -  - EXISTING SIGN TO BE REMOVED
 -  - PROPOSED SIGN
 - DND - DO NOT DISTURB

| 0 | 2019-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

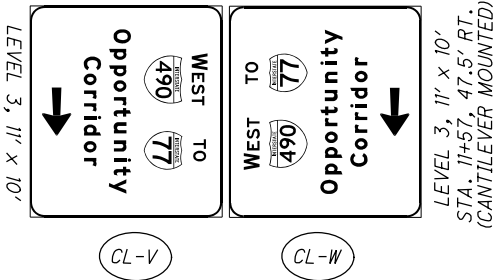
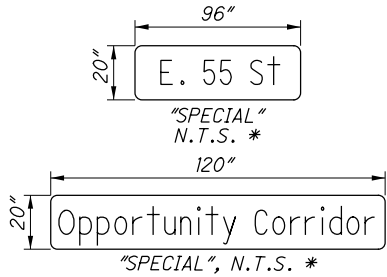


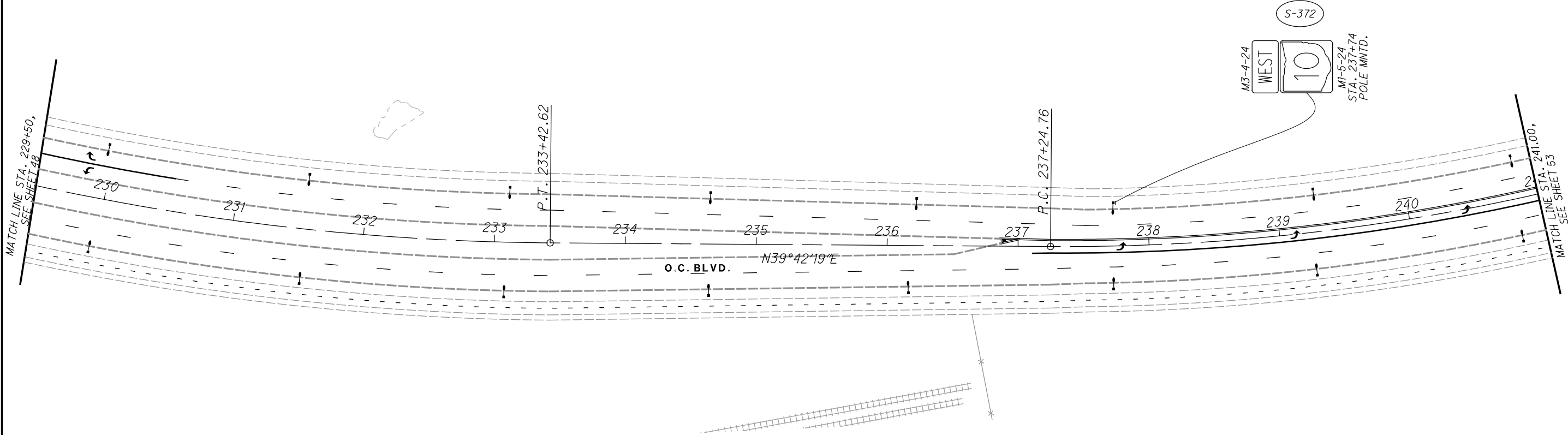
| NO. | DATE | DESCRIPTION |
|--------------|------------|-------------|
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |



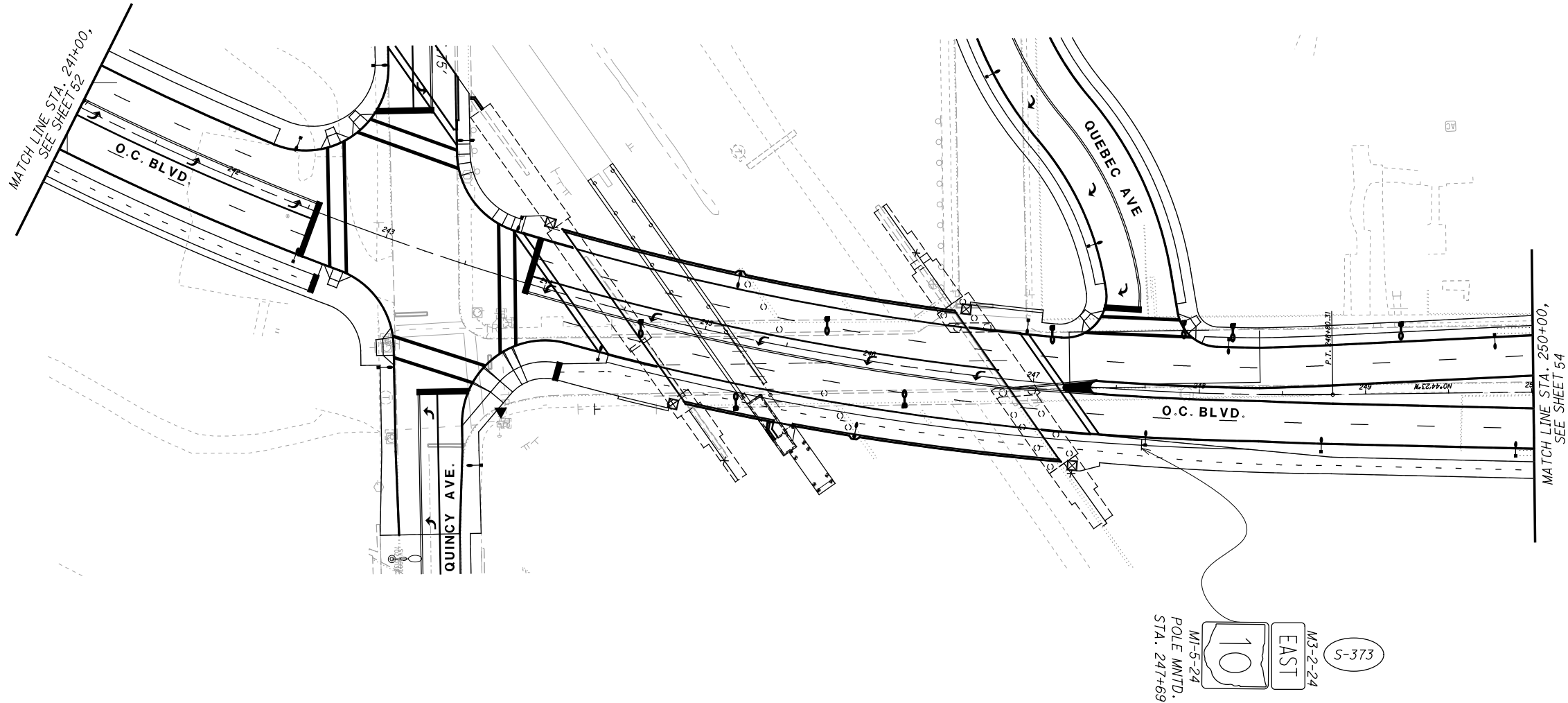
| NO. | DATE | DESCRIPTION |
|--------------|------------|-----------------|
| 1 | 2024-09-10 | RECORD DRAWINGS |
| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

NOTE:
FOR OVERHEAD SIGNS, SEE SHEETS 98, AND 99
FOR DETAILS AND QUANTITIES.





| 0 | 2019-08-02 | RFC |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |



| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 0 | 2019-08-02 | RFC |
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CUY-IR490 / SR010-
2.09 / 19.28

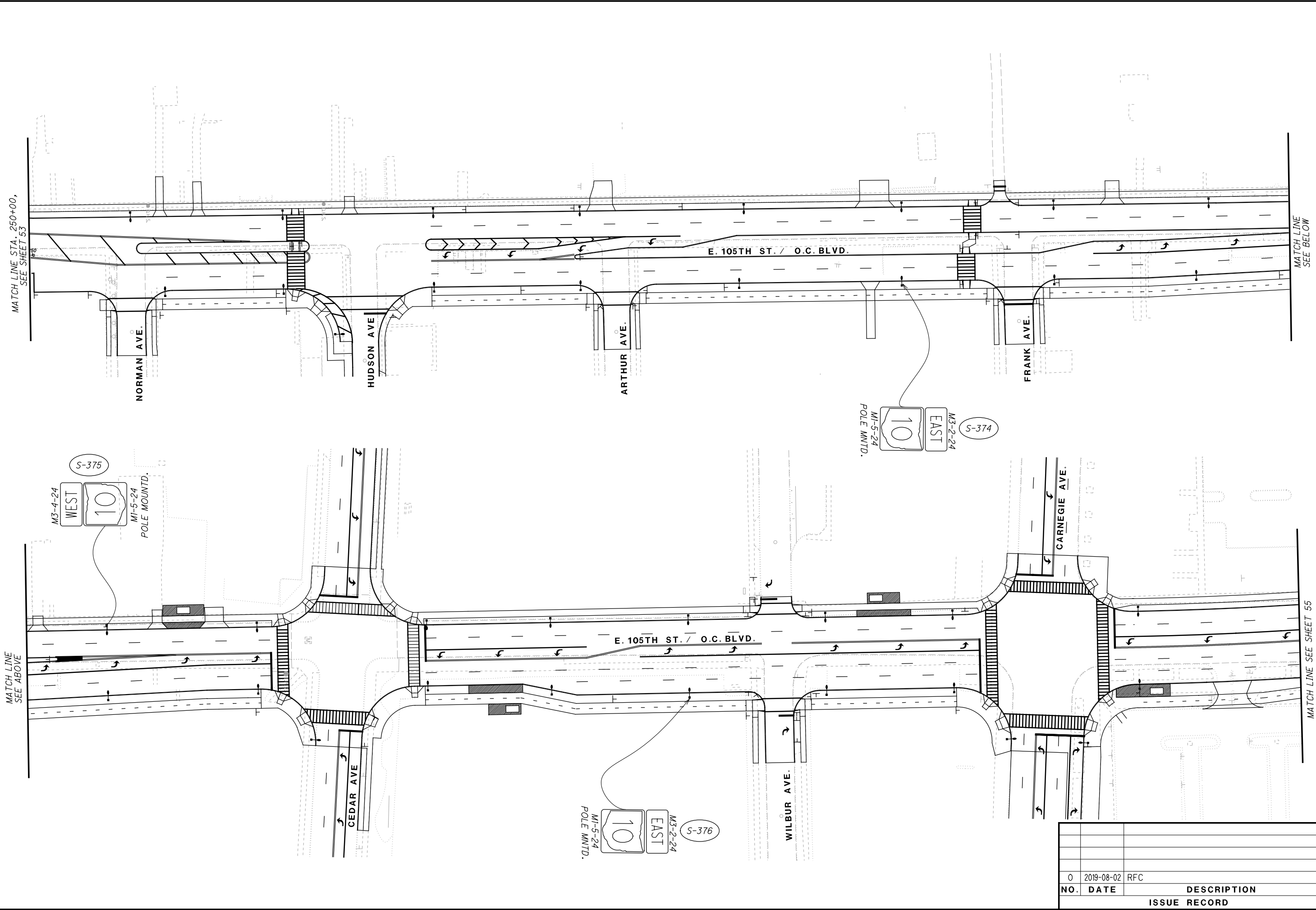
TRAILBLAZING SIGNS
O.C. BLVD. STA. 241+00 TO STA. 250+00

CALCULATED
WCB
CHECKED
JFM

0 20 40 80
HORIZONTAL
SCALE IN FEET

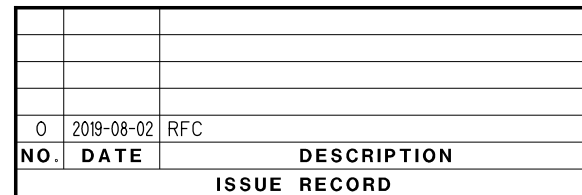
RECORD PLANS

RECORD PLANS



| ISSUE RECORD | | |
|--------------|------------|-------------|
| NO. | DATE | DESCRIPTION |
| 0 | 2019-08-02 | RFC |
| | | |
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| | | |
| | | |

= EXISTING TO BE REMOVED
AND RE-ERECTED



Greater Cleveland
Wayfinding Sign Standards

Street Name
Mast Arm w/o District (Mast Arm)

D4

Program Rationale

The street name sign is utilized at intersections 1) where signal mast arms exist; or 2) in conjunction with cantilevered pole-mounted (Type D.3 signs) street name signs for approaches without signal mast arms. It identifies street names primarily for vehicular traffic as well as pedestrians along secondary lower traffic volume streets.

Design Expression

The sign features a larger 12" cap height, more legible street name size using a distinctive bright blue reflectorized background and white message. The message utilizes the Univers 65 font, initial caps, centered horizontally and vertically on the panel. The message shall be screen printed, whereby the background colors are screened and the message "drops out" in white from the high-intensity grade reflectorized sheeting.

Sign panels are .080" thick aluminum with a consistent width (20"). Three panel sizes are suggested to accommodate varying message lengths (6'-0", 7'-0" and 8'-0").

Placement Criteria

Sign panels are mounted on mast arms of signal or light poles between the signal head and curb, using stainless steel straps and standard City of Cleveland brackets and hardware mechanically fastened to panel stiffeners bonded to the back of the panel.

Signs are located at the far side of the intersection, facing all approaches whenever possible.

References

Appendix A - General Specifications
Appendix B - Production, Installation, Management Specifications - Drawing D1-D4.1
Appendix C - Program Matrix

Bolivar

A12

BUS STOP
IDENTIFICATION

Post-Mounted

DESCRIPTION

.080 gauge aluminum, double-sided sign, used to show applicable RTA routes and bus stops. These signs are posted at bus stops around the Greater Cleveland area.

SIGN CONSTRUCTION

- Face-White High Intensity prismatic sheeting, with applied translucent vinyl or printed color(s).

MOUNTING

Flag-mounted with tension bands to a 2 3/4 inch round post. Post is buried directly into ground or mounted via a small plate to concrete.

Alternatively, this sign can be mounted to an existing pole or overhead structure, as long as it clears a minimum of 84-inches to ground level.

REFERENCES

- Logo Usage—Page 2
- Colors and Materials—Page 5
- Fonts—Page 3

SIGN DETAILS

SCALE: 1"=1'

A12

BUS STOP
IDENTIFICATION

Post-Mounted

DESCRIPTION

.080 gauge aluminum, double-sided sign, used to show applicable RTA routes and bus stops. These signs are posted at bus stops around the Greater Cleveland area.

SIGN CONSTRUCTION

- Face-White High Intensity prismatic sheeting, with applied translucent vinyl or printed color(s).

MOUNTING

Flag-mounted with tension bands to a 2 3/4 inch round post. Post is buried directly into ground or mounted via a small plate to concrete.

Alternatively, this sign can be mounted to an existing pole or overhead structure, as long as it clears a minimum of 84-inches to ground level.

REFERENCES

- Logo Usage—Page 2
- Colors and Materials—Page 5
- Fonts—Page 3

SIGN DETAILS

SCALE: 1"=1'

A12

BUS STOP
IDENTIFICATION

Post-Mounted

DESCRIPTION

.080 gauge aluminum, double-sided sign, used to show applicable RTA routes and bus stops. These signs are posted at bus stops around the Greater Cleveland area.

SIGN CONSTRUCTION

- Face-White High Intensity prismatic sheeting, with applied translucent vinyl or printed color(s).

MOUNTING

Flag-mounted with tension bands to a 2 3/4 inch round post. Post is buried directly into ground or mounted via a small plate to concrete.

Alternatively, this sign can be mounted to an existing pole or overhead structure, as long as it clears a minimum of 84-inches to ground level.

REFERENCES

- Logo Usage—Page 2
- Colors and Materials—Page 5
- Fonts—Page 3

SIGN DETAILS

SCALE: 1"=1'

Greater Cleveland
Wayfinding Sign Standards

Street Name
Cantilevered w/o District (Cantilevered)

D3

Program Rationale

The street name sign is utilized at intersections 1) where signal mast arm street name signs cannot be utilized; or 2) in conjunction with mast arm street name signs for intersection approaches with signal mast arm street name sign. It identifies street names primarily for pedestrians and secondarily for vehicular traffic along secondary lower traffic volume streets.

Design Expression

The sign features a larger 7" cap height, more legible street name size using a distinctive bright blue reflectorized background and white message. The message utilizes the Univers 65 font, initial caps, centered horizontally and vertically on the panel. The messages shall be screen printed, whereby the background colors are screened and the message "drops out" in white from the high-intensity grade reflectorized sheeting.

Sign panels are .080" thick aluminum with a consistent width (12"). Three panel sizes are available to accommodate varying message lengths (3'-0", 3'-6" and 4'-0"). Where existing post strength or windloading is a concern, the Engineer may reduce this to a 10" high panel with 6" copy.

Placement Criteria

Sign panels are roadside mounted to existing light or signal mast arm poles, utilizing a sign-fix or equivalent bracket and stainless steel strapping. Minimum of 8'-0" vertical clearance and 18" horizontal curb clearance to prevent being hit by trucks. Signs are located diagonally opposed on light or signal poles at the near side corner of the intersection for the arterial roadway approach.

References

Appendix A - General Specifications
Appendix B - Production, Installation, Management Specifications - Drawing D1-D4.1
Appendix C - Program Matrix

SIGN DETAILS

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

Greater Cleveland
Wayfinding Sign Standards

Street Name
Graphic Details

D1-D4.1

NOTES:

- All panels .080" thick aluminum with 3M High Intensity Grade reflective sheeting.
- Background colors/messages reverse screen printed or equivalent color transparent film.
- Block addresses, if used, applied with machine-cut reflective sheeting.
- Use heavy duty Sign-Fix bracket for cantilever mounting.
- Colors:
 - Name light Blue Scotch-lite ink #983 or equivalent transparent film.
 - District light Violet Scotch-lite ink #953 or equivalent transparent film.
 - Message: Scotch-lite High Intensity Grade silver #5873.
- D3 Sign - Where existing post strength or windloading is a concern the engineer may reduce to a 10" high panel with 6" copy.

SIGN DETAILS

SCALE: 3/4"=1'-0"

Greater Cleveland
Wayfinding Sign Standards

General Specifications
Typography

GS.3

The Univers family is the official letter style for the Greater Cleveland Master Signage Program. This style is readily available from manufacturers of signs, or sign making equipment and features a wide variety of proportions and stroke widths adaptable to the various program applications. Univers Bold is utilized throughout all applications as sign messages and text. Univers Condensed Bold is utilized on Pedestrian Directional signs and printed maps. Univers Condensed is utilized primarily on maps and other printed applications.

Among various manufacturers and letter cutting equipment, there is not total uniformity as to letter form. This is especially true with Univers Condensed. It is important that there be a match with the examples shown in this manual. Univers Condensed has a lighter stroke width for internal illumination to minimize the "halation effect", where the stroke will appear to glow and enlarge.

All non-tactile sign word messages are to be in initial upper case followed by lower case to enhance word signature readability unless specified otherwise. Examples of exceptions are "EXIT" and "DO NOT ENTER", where these word signatures are learned in all upper case. Other exceptions are to distinguish a heading from body copy or to emphasize the importance of a word or phrase.

As required by ADA, any tactile messages shall be all upper case. Univers Bold braille messages do not have to be all upper case except to emphasize the importance of a word or phrase.

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
\$1234567890
Univers Bold - 65

ABCDEFGHIJKLMNOPQRSTUVWXYZ
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
\$1234567890
Univers Condensed Bold - 67

ABCDEFGHIJKLMNOPQRSTUVWXYZ
OPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz
\$1234567890
Univers Condensed Regular - 57

Greater Cleveland
Wayfinding Sign Standards

General Specifications
Letter Spacing

GS.4

The final layout and/or assembly of letters on a sign panel requires careful letter spacing guidelines to assure maximum legibility.

This manual recommends normal spacing for signs that are ambiently lighted or externally lighted. Normal spacing should result in approximately one stroke width between straight vertical letters such as (i) and (n). All other letter spacing combinations should be visually proportional to one stroke width. Tight letter spacing shall not be considered and is not within the guidelines of this manual since legibility would be compromised.

This manual recommends wide spacing for signs that are internally-illuminated and normal spacing for letters that are reflective. Wide spacing should result in approximately 1 1/4 (1.25) times the stroke width.

Spacing between words is equally as important to achieve good legibility as inter-letter and inter-line spacing. Word spacing shall be 3/4 (.75) times the cap letter height. Thus, lettering using 4" cap letters will have 3" between words. This space guideline also applies to abbreviations, initials, etc.

Line spacing shall be 1/2 (.50) times the cap letter height for words of a related message line such as "Metroparks Zoo". Spacing between unrelated message lines shall be 1 times the cap letter height.

Signage margins for left, right, top and bottom spacing shall be a standard 3/4 (.75) times the cap letter height and for exceptions where there are space limitations, 1/2 (.50) times cap letter height.

Univers 67 Condensed
Spacing

Univers 65
Spacing

Spacing NOT APPROVED (Tight)

Univers 67 Condensed
Spacing

Univers 65
Spacing

Spacing APPROVED (Normal) for ambiently & externally illuminated & reflective letters

Univers 67 Condensed
Spacing

Univers 65
Spacing

Spacing APPROVED (Wide) for internally illuminated letters

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CALCULATED
WCB
CHECKED
JFM

NOT TO SCALE

SPECIAL SIGNING DETAILS

RECORD PLANS

RECORD PLANS

CUY-IR490/ SR010-
2.09 / 19.28

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LEGEND:



SIGN MOUNTED ON TRUSS



SIGN MOUNTED ON CANTILEVER



GROUND MOUNTED SIGN



PROPOSED SIGN



REMOVED SIGN

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CUY-IR490/ SR010-
2.09/ 19.28

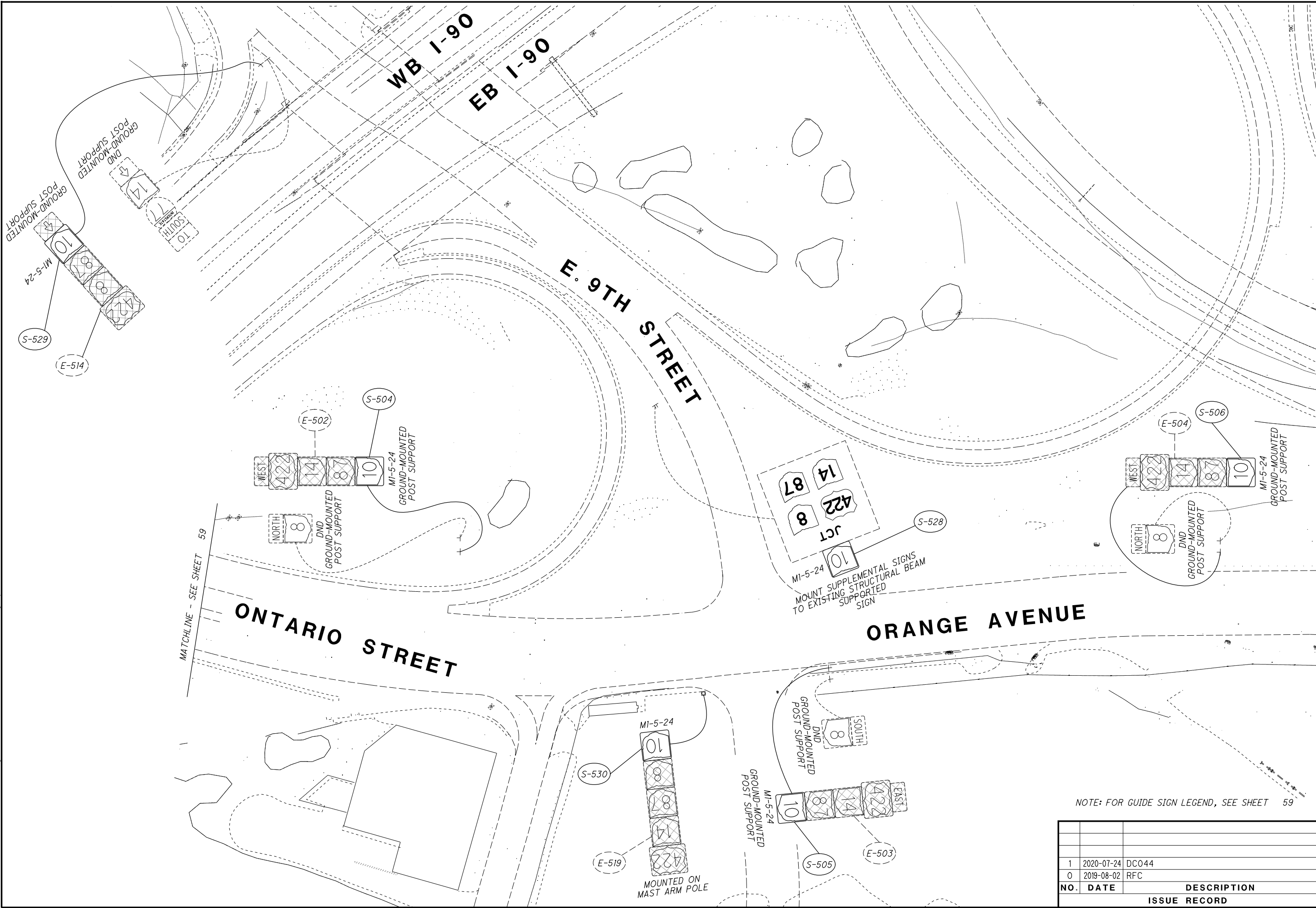
58
117

PERMANENT GUIDE SIGNS
SCHEMATIC LAYOUT

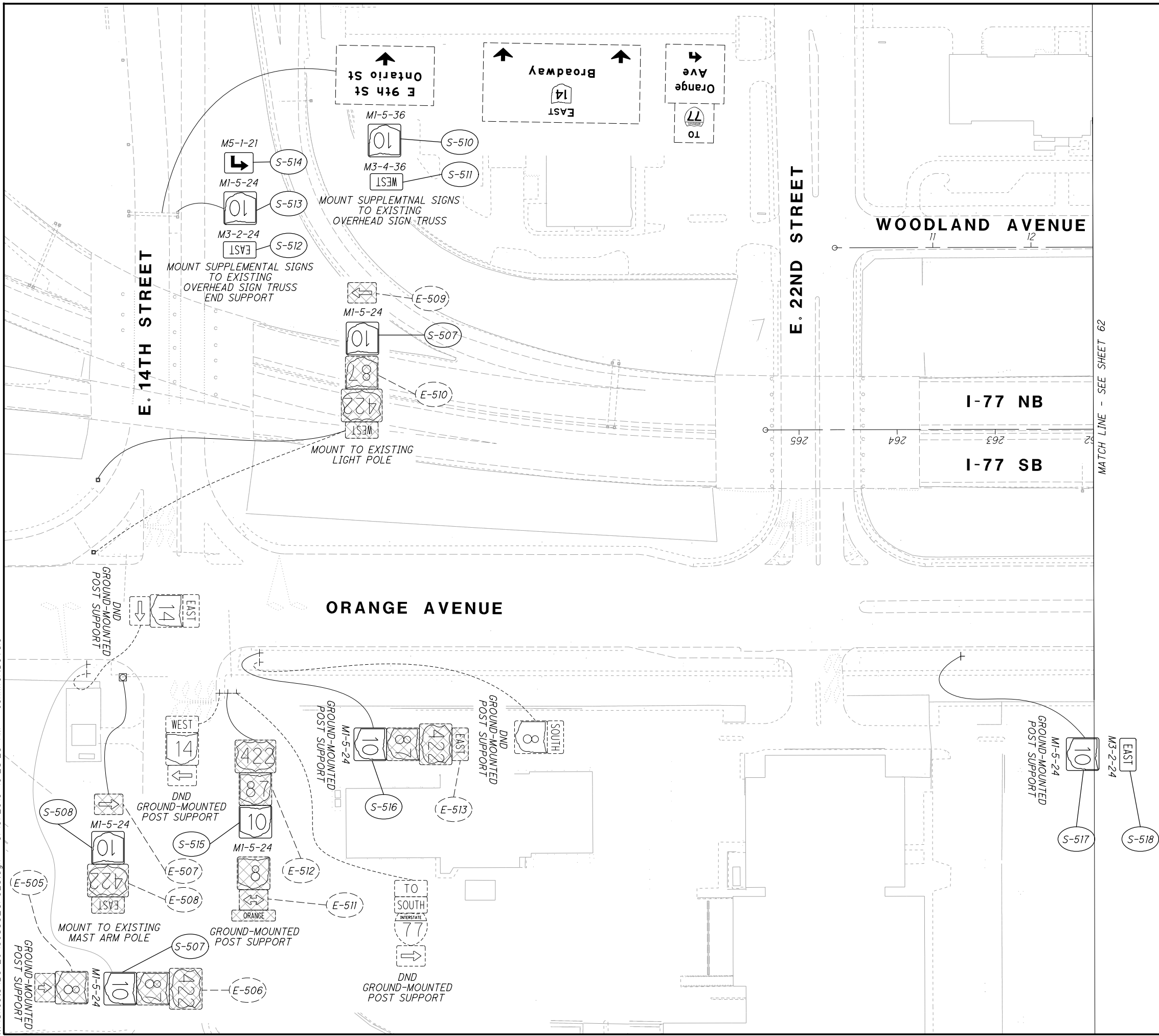
RECORD PLANS
RECORD PLANS



ISSUE RECORD

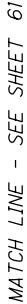


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| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |
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NOTE: FOR GUIDE SIGN LEGEND, SEE SHEET 59

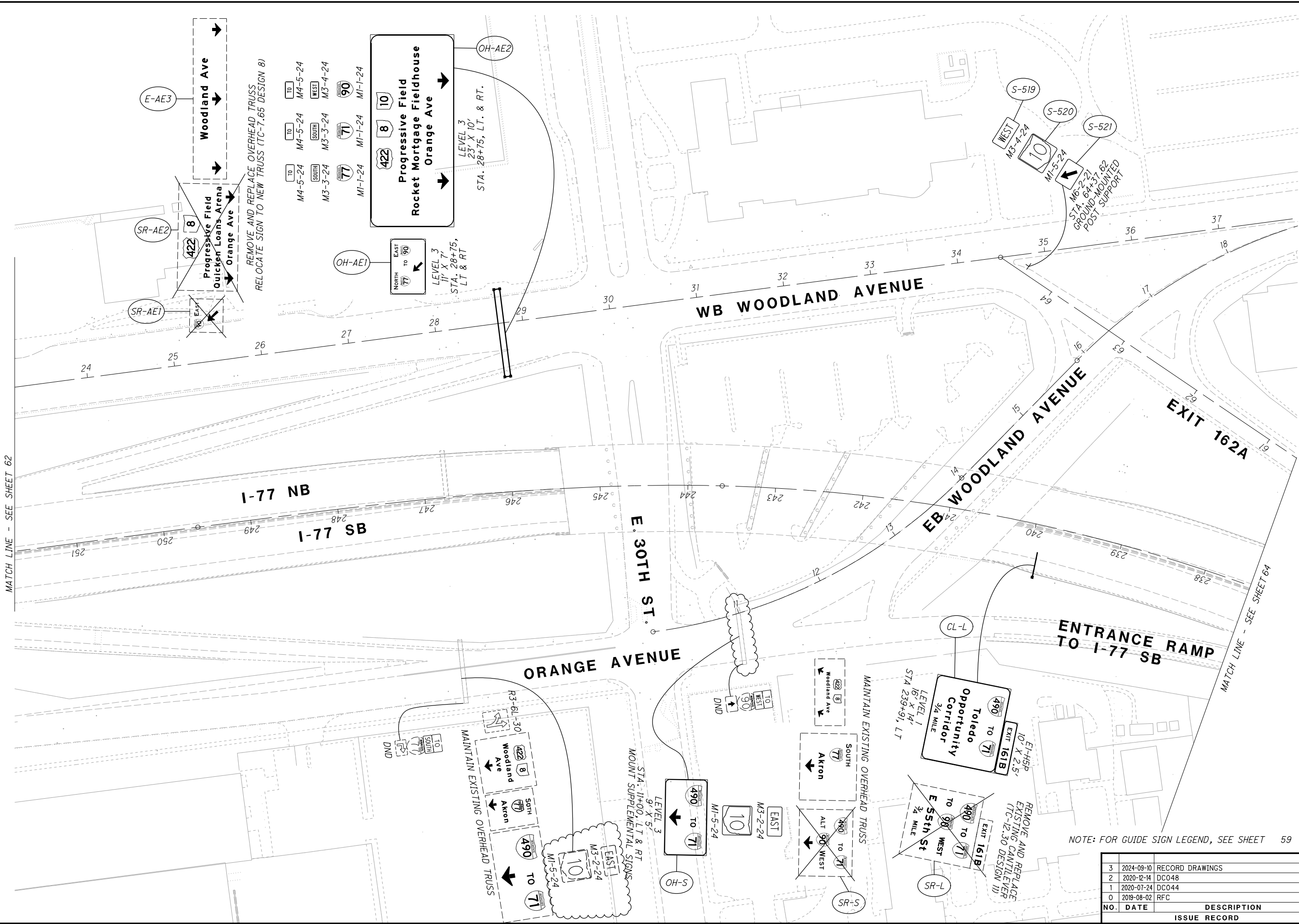
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| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |



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| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

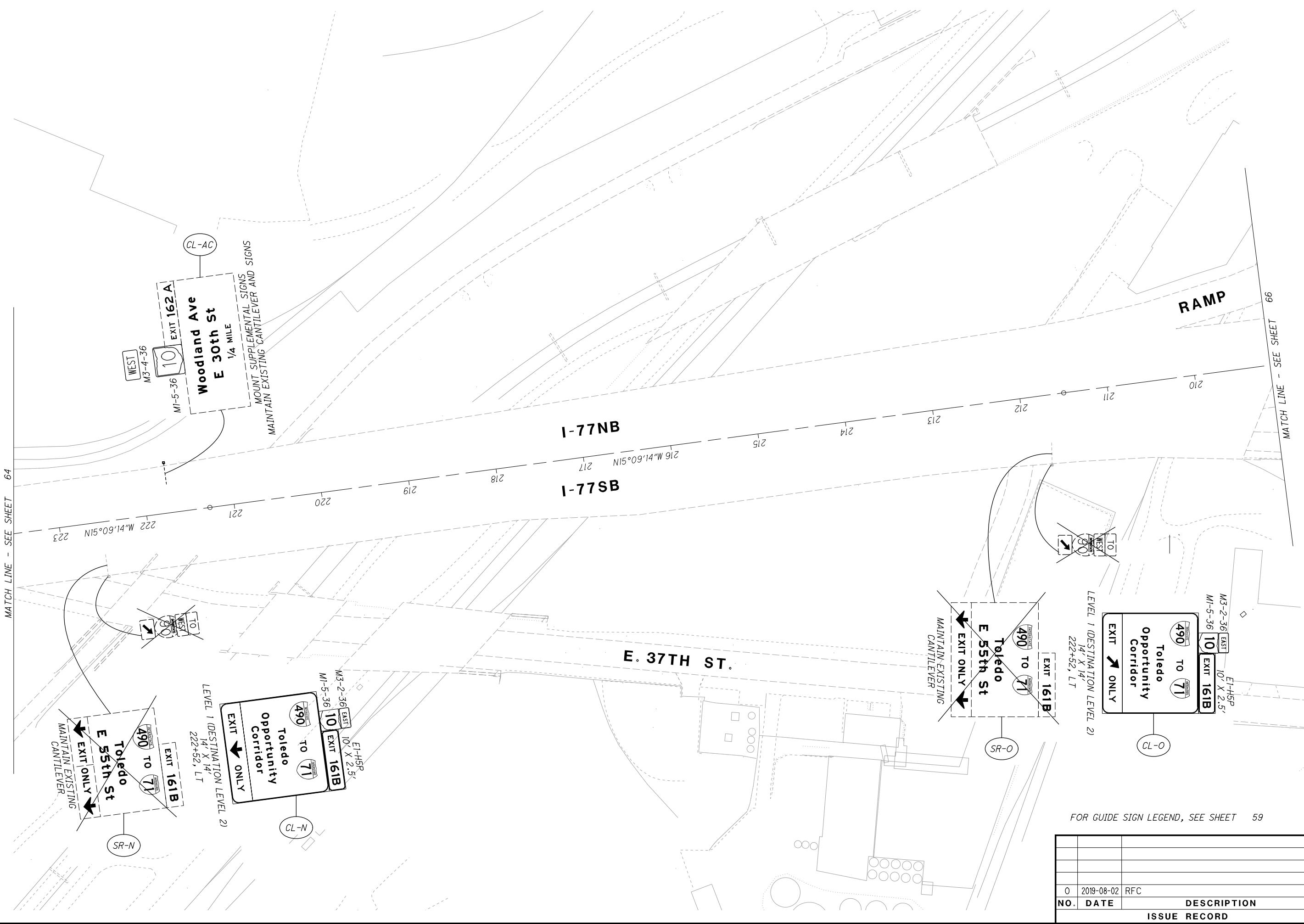
NOTE: FOR GUIDE SIGN LEGEND, SEE SHEET 59





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| 2 | 2020-12-14 | DC048 |
| 1 | 2020-07-24 | DC044 |
| 0 | 2019-08-02 | RFC |

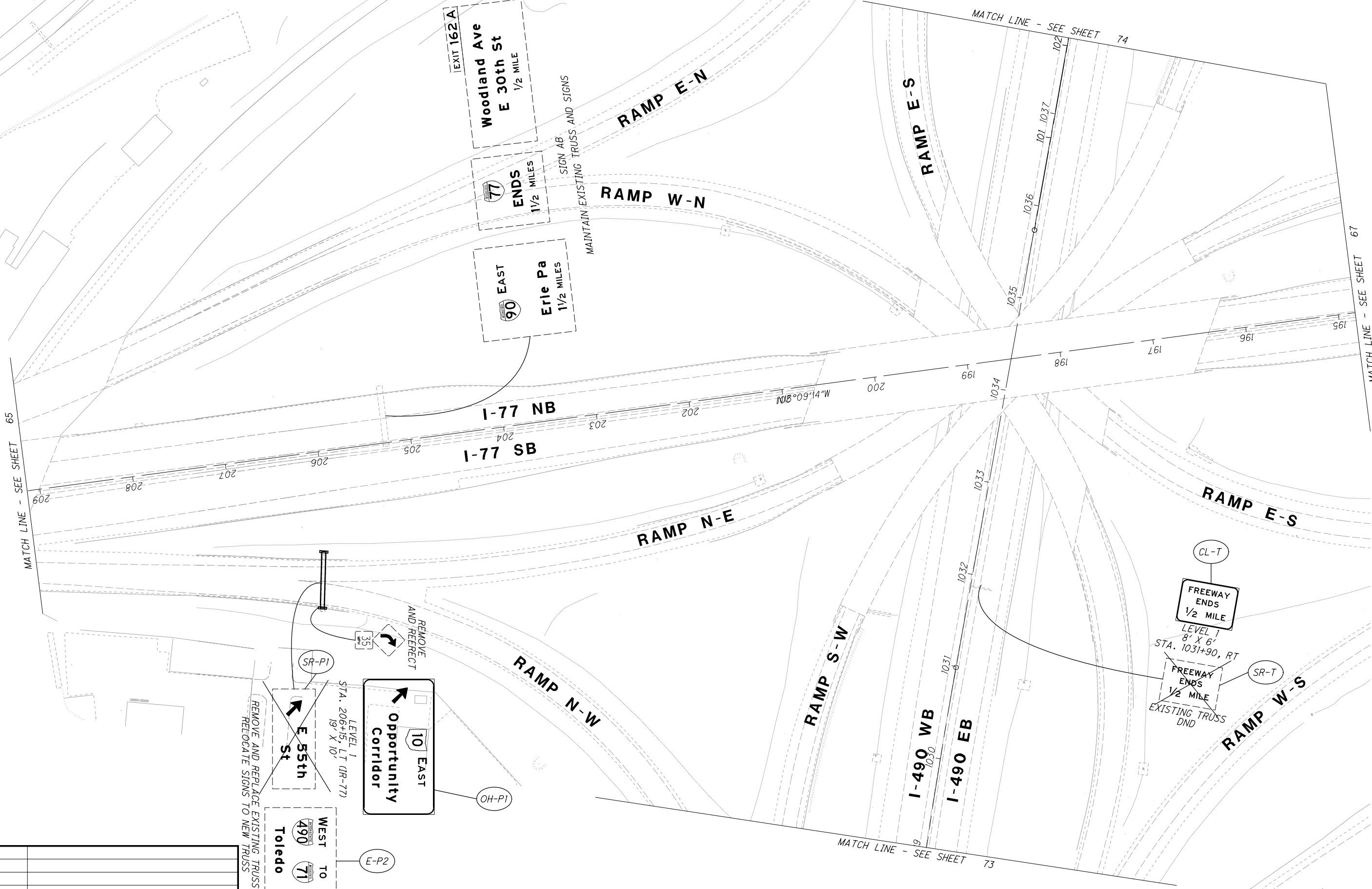
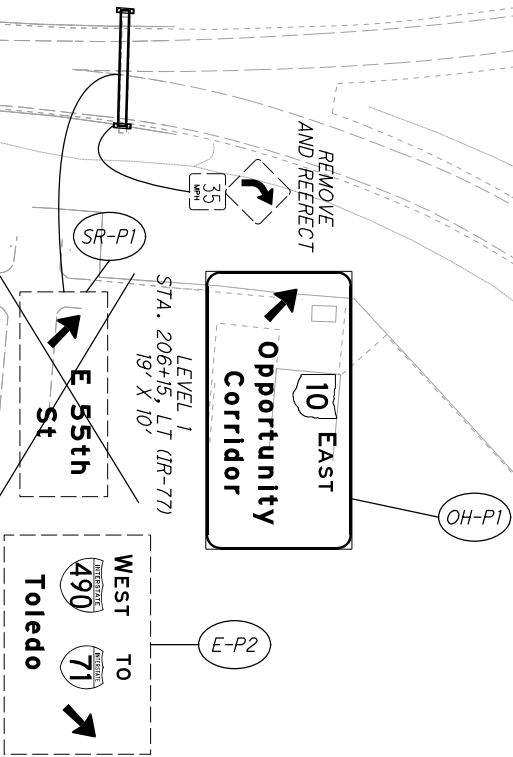
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| 1 | 2020-07-24 | DC044 |
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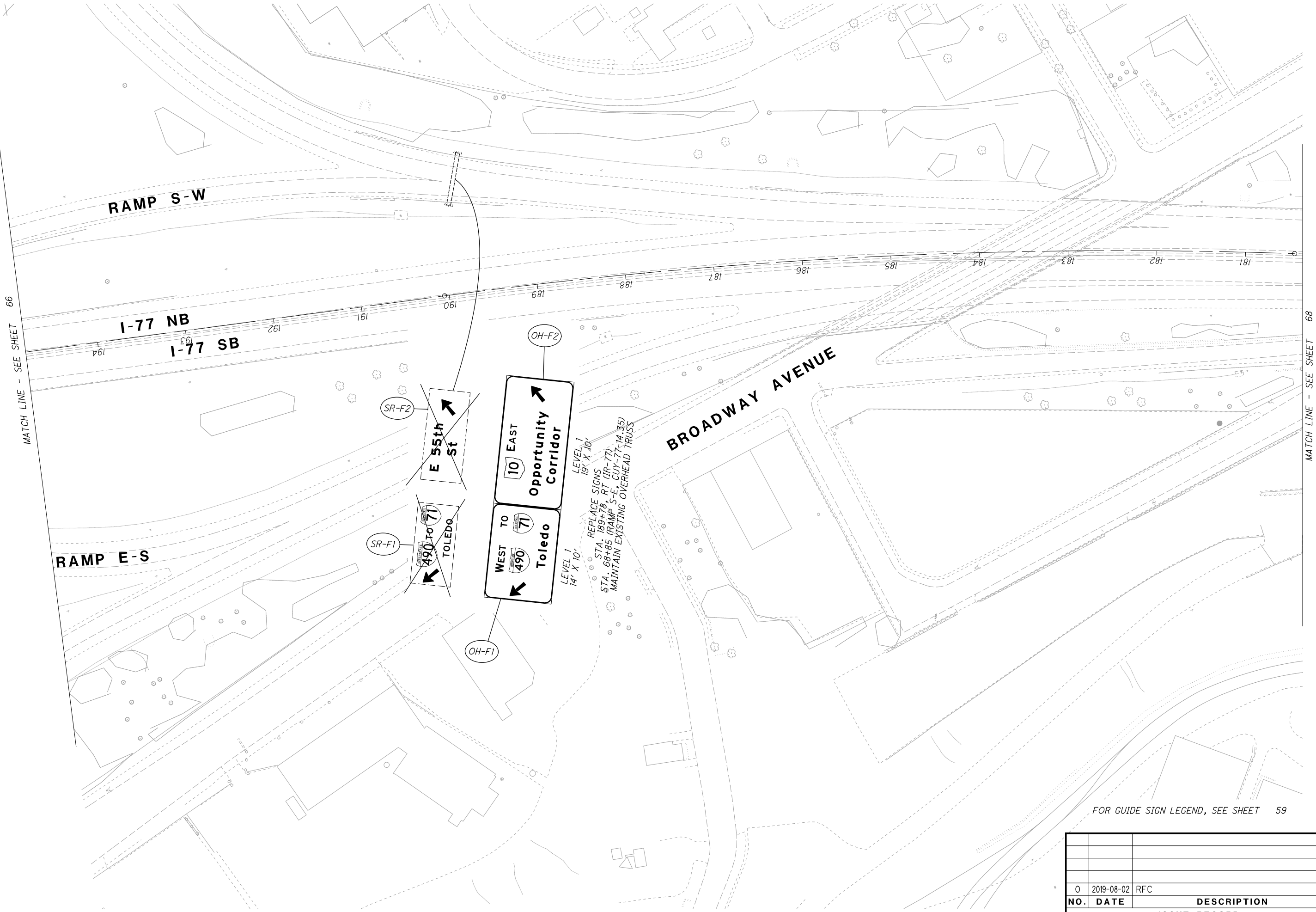
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REMOVE AND REPLACE EXISTING TRUSS
RELOCATE SIGNS TO NEW TRUSS

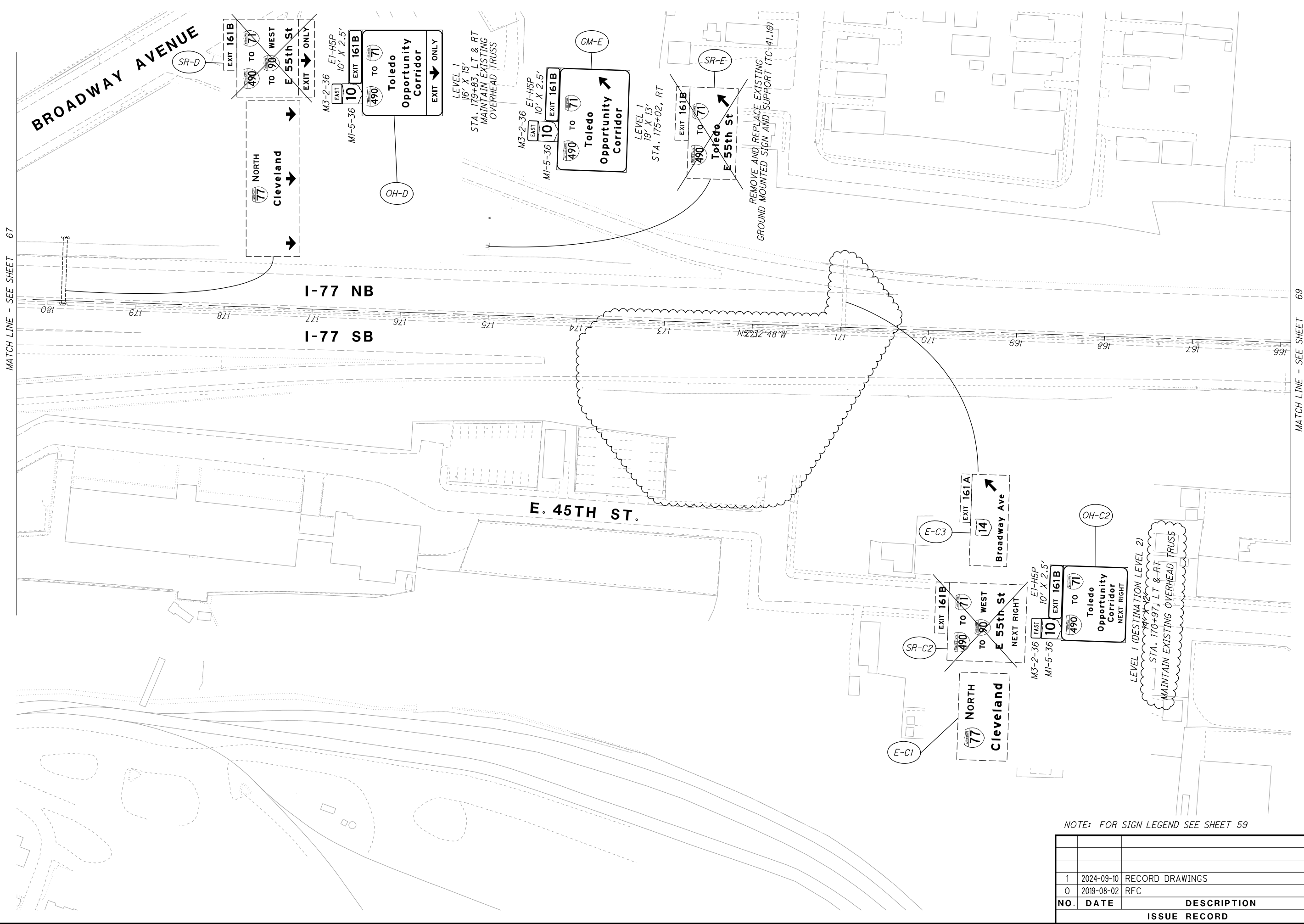


FOR GUIDE SIGN LEGEND, SEE SHEET 59



FOR GUIDE SIGN LEGEND, SEE SHEET 59

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MATCH LINE - SEE SHEET 67

MATCH LINE - SEE SHEET 69

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| 1 | 2024-09-10 | RECORD DRAWINGS |
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CUY-IR490/ SR010-2.09 / 19.28

GUIDE SIGN PLAN
I-77

CALCULATED JSR
CHECKED DUJ

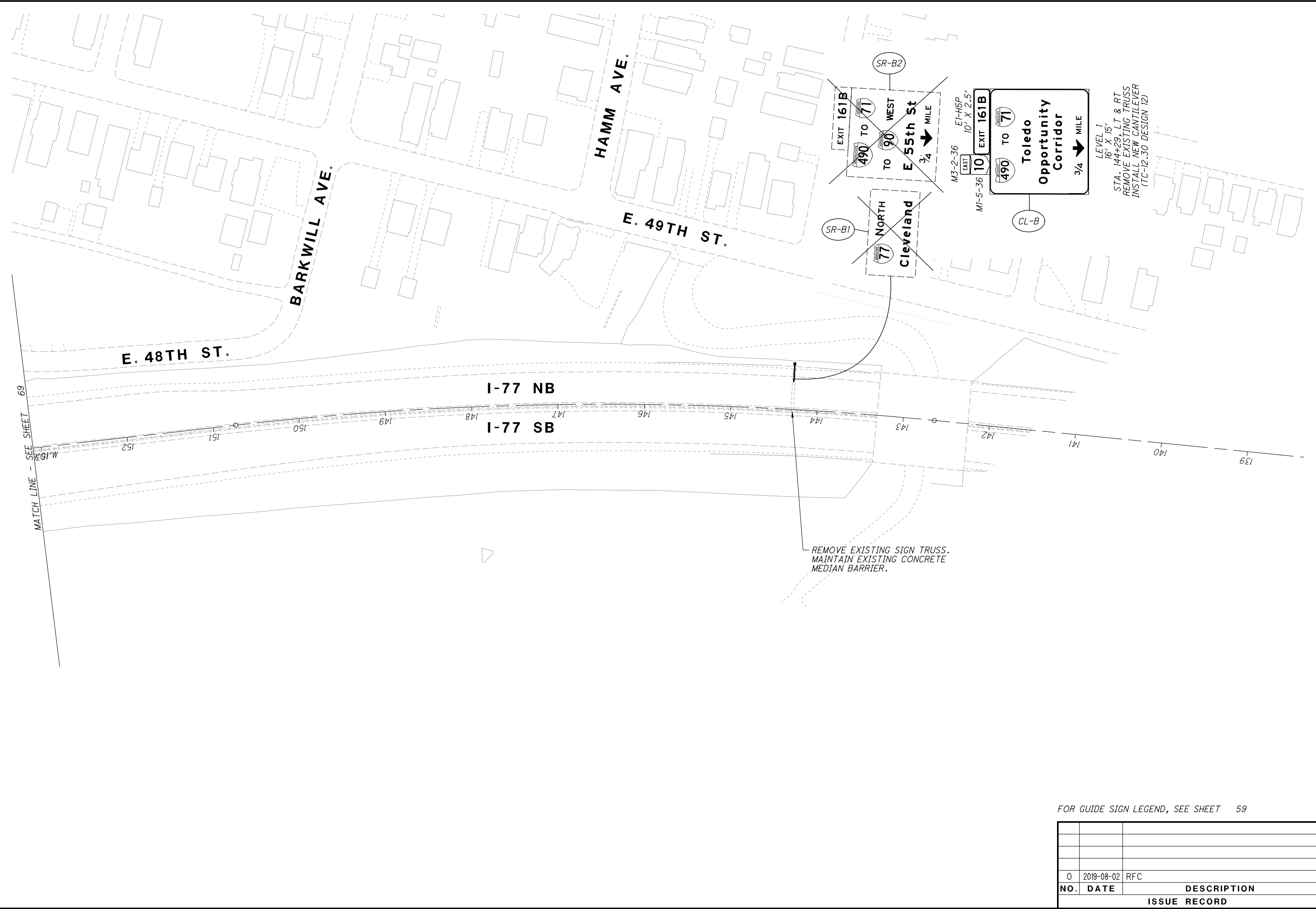
RECORD PLANS

0 50 100
HORIZONTAL SCALE IN FEET

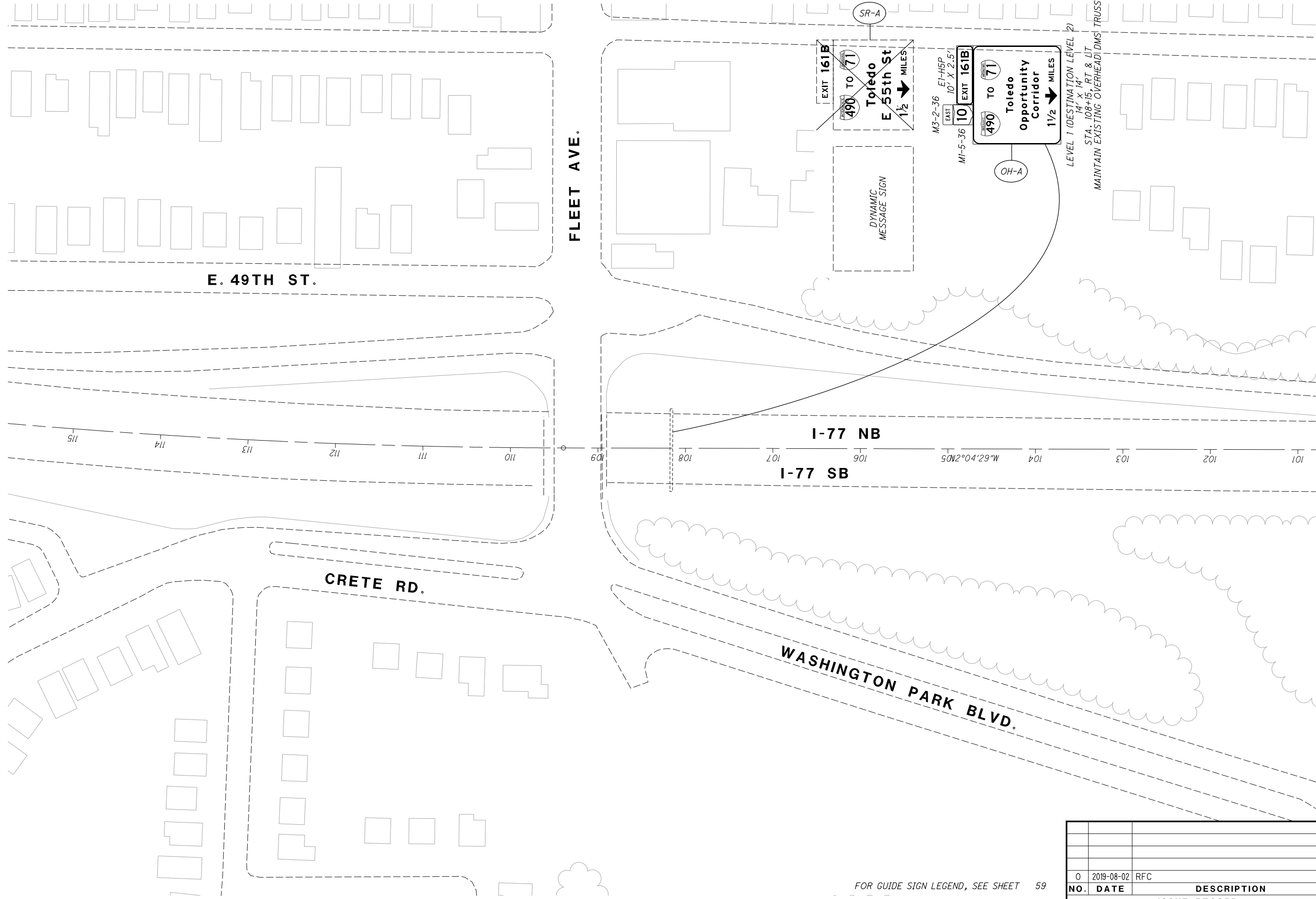
RECORD PLANS

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| ISSUE RECORD | | |
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FOR GUIDE SIGN LEGEND, SEE SHEET 59

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CUY-IR490/ SR010-
2.09 / 19.28

GUIDE SIGN PLAN
I-77 AND FLEET AVE.

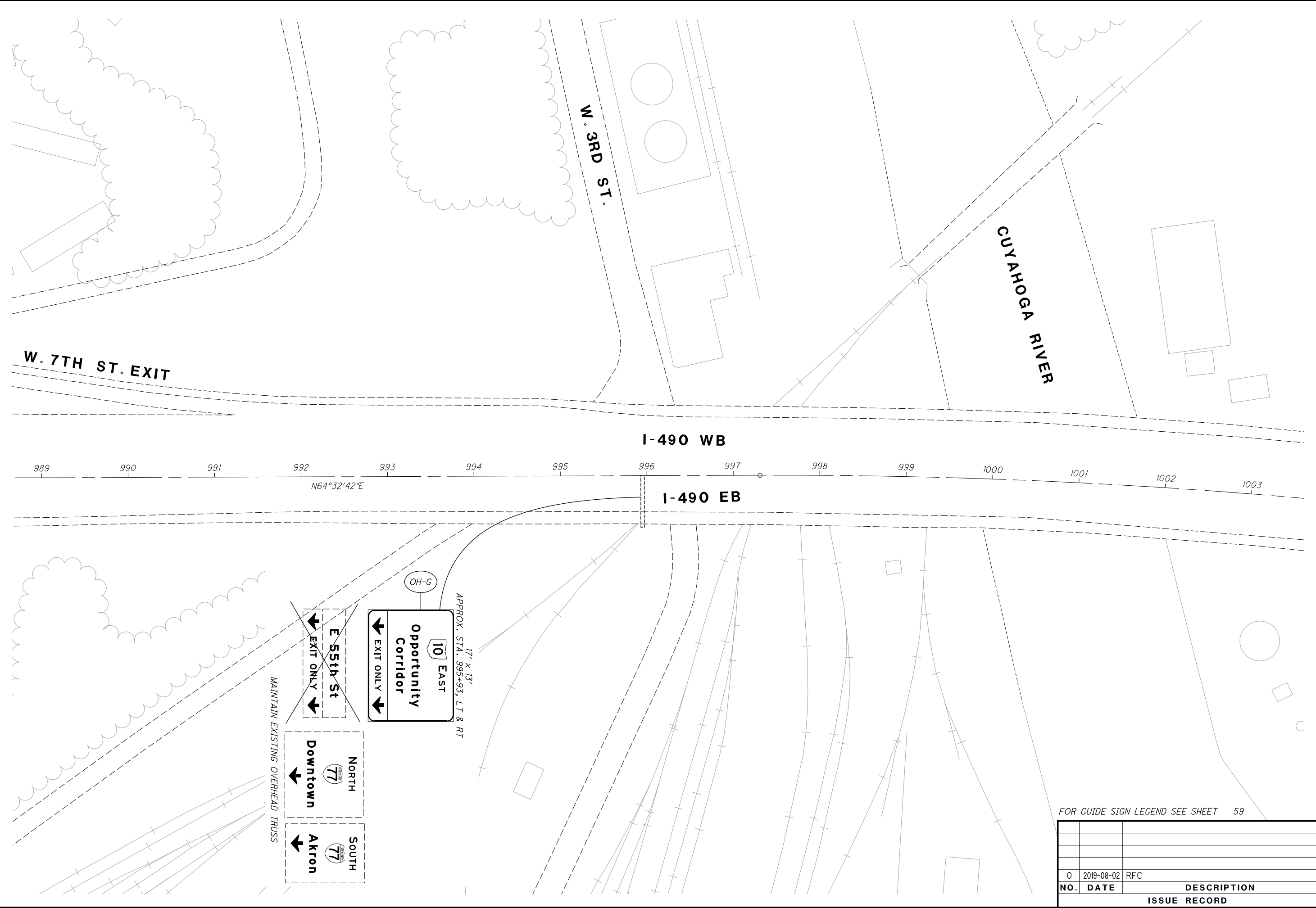
RECORD PLANS

CALCULATED JSR
CHECKED DUJ

0 25 50 100
HORIZONTAL
SCALE IN FEET

RECORD PLANS





FOR GUIDE SIGN LEGEND SEE SHEET 59

| NO. | DATE | DESCRIPTION |
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| ISSUE RECORD | | |

CUY-IR490/ SR010-2.09 / 19.28

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GUIDE SIGN PLAN

I-490

RECORD PLANS

RECORD PLANS

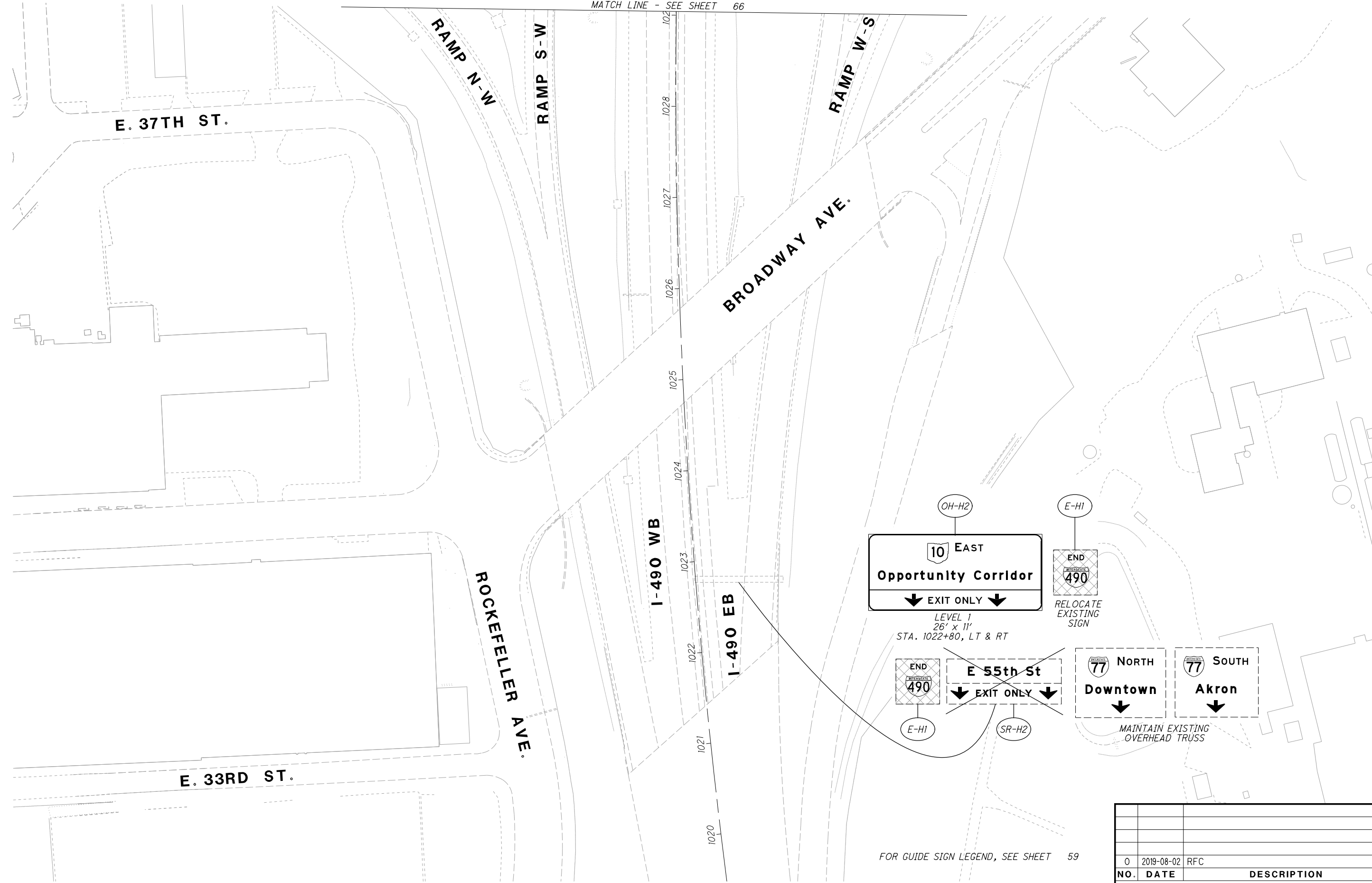
CALCULATED JSR

CHECKED DUJ

0 50 100

HORIZONTAL SCALE IN FEET

RECORD PLANS



FOR GUIDE SIGN LEGEND, SEE SHEET 59

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| NO. | DATE | DESCRIPTION |
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CUY-IR490/ SR010-2.09/ 19.28

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GUIDE SIGN PLAN
I-490 AND BROADWAY AVE.

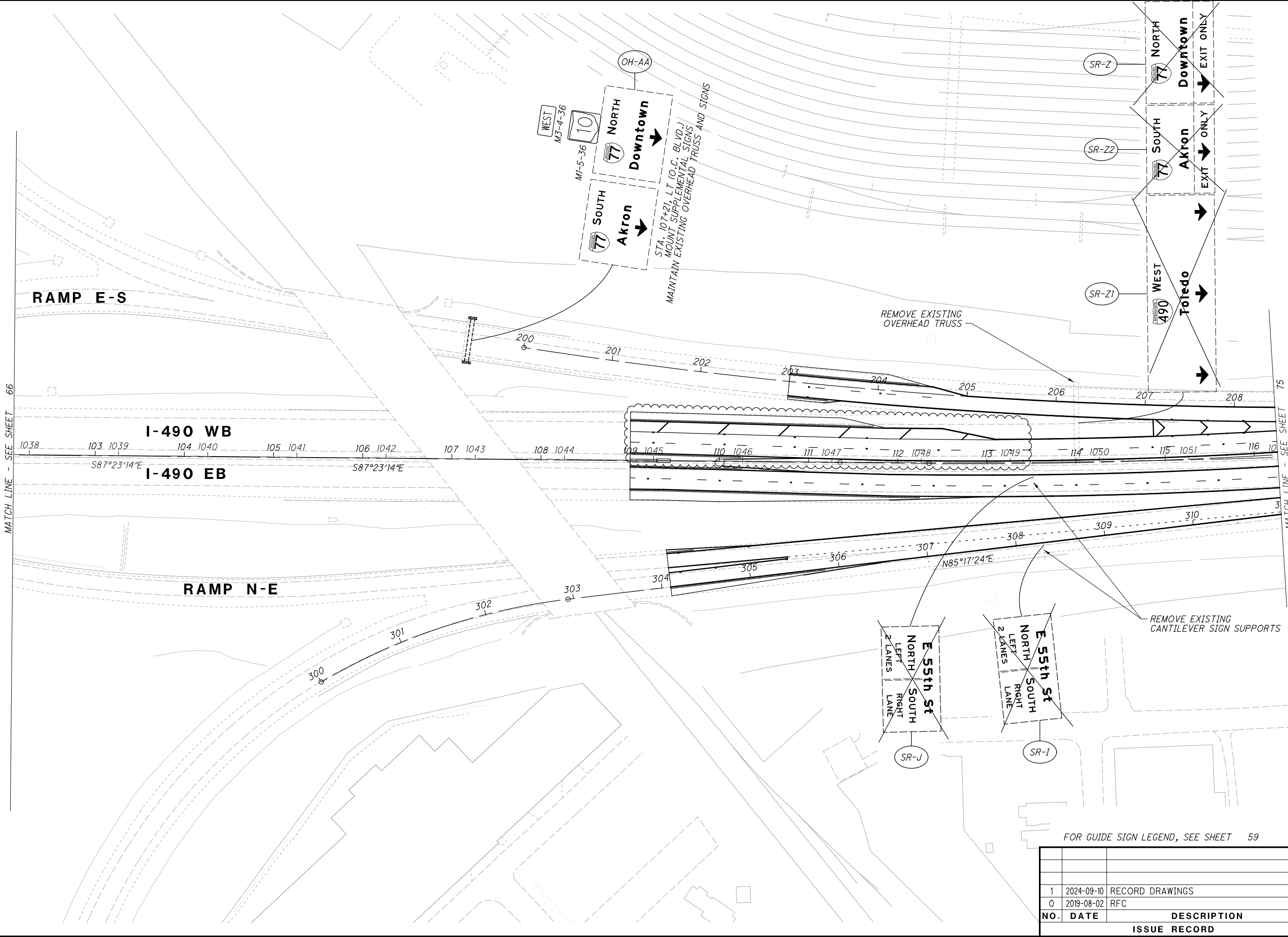
CALCULATED JSR
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0 50 100
HORIZONTAL SCALE IN FEET

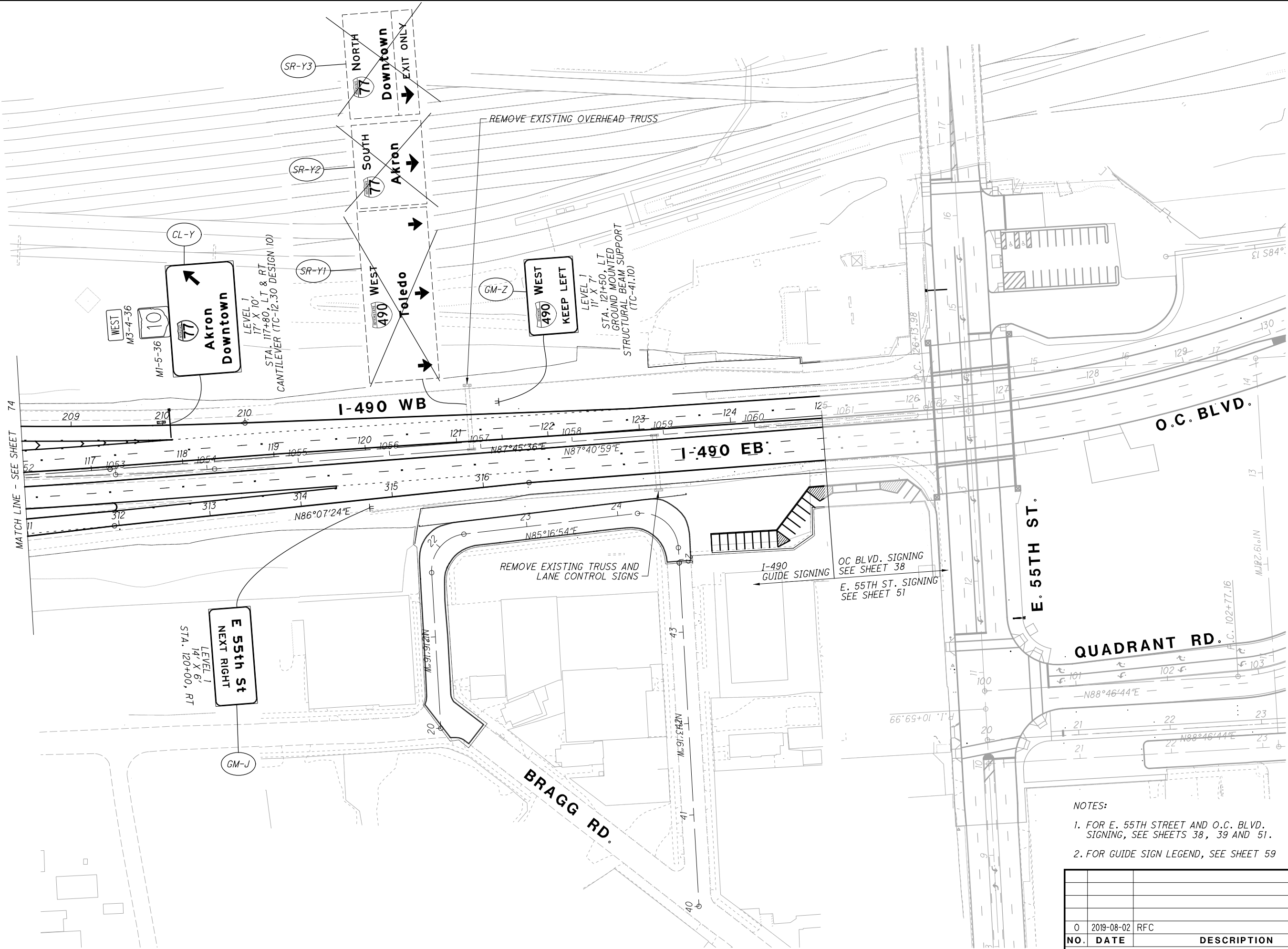
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RECORD PLANS

RECORD PLANS



| FOR GUIDE SIGN LEGEND, SEE SHEET 59 | | |
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- NOTES:
1. FOR E. 55TH STREET AND O.C. BLVD. SIGNING, SEE SHEETS 38, 39 AND 51.
 2. FOR GUIDE SIGN LEGEND, SEE SHEET 59

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CUY-IR490/ SR010-
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GUIDE SIGN PLAN
I-490 AND E. 55TH ST.

RECORD PLANS

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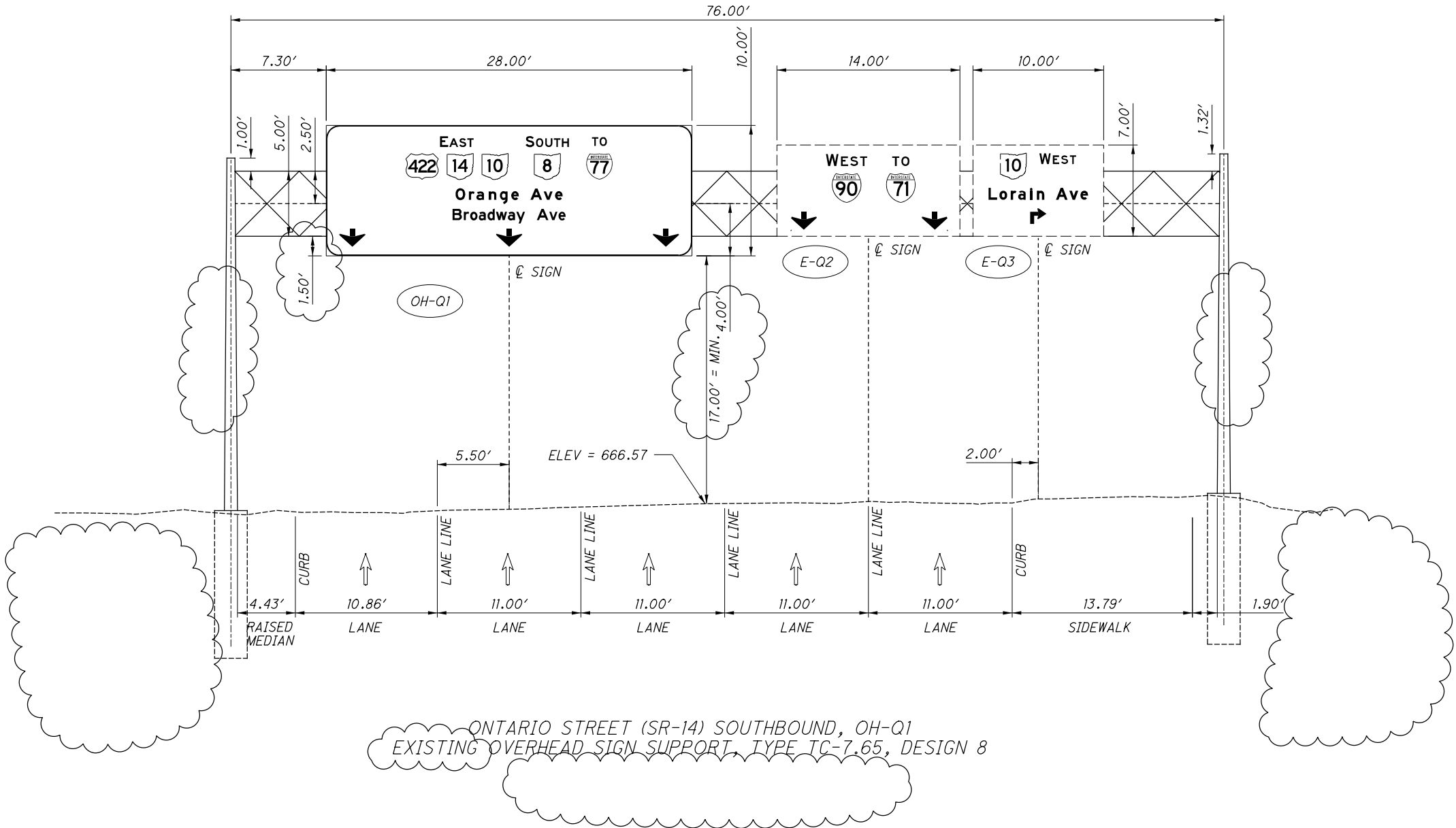
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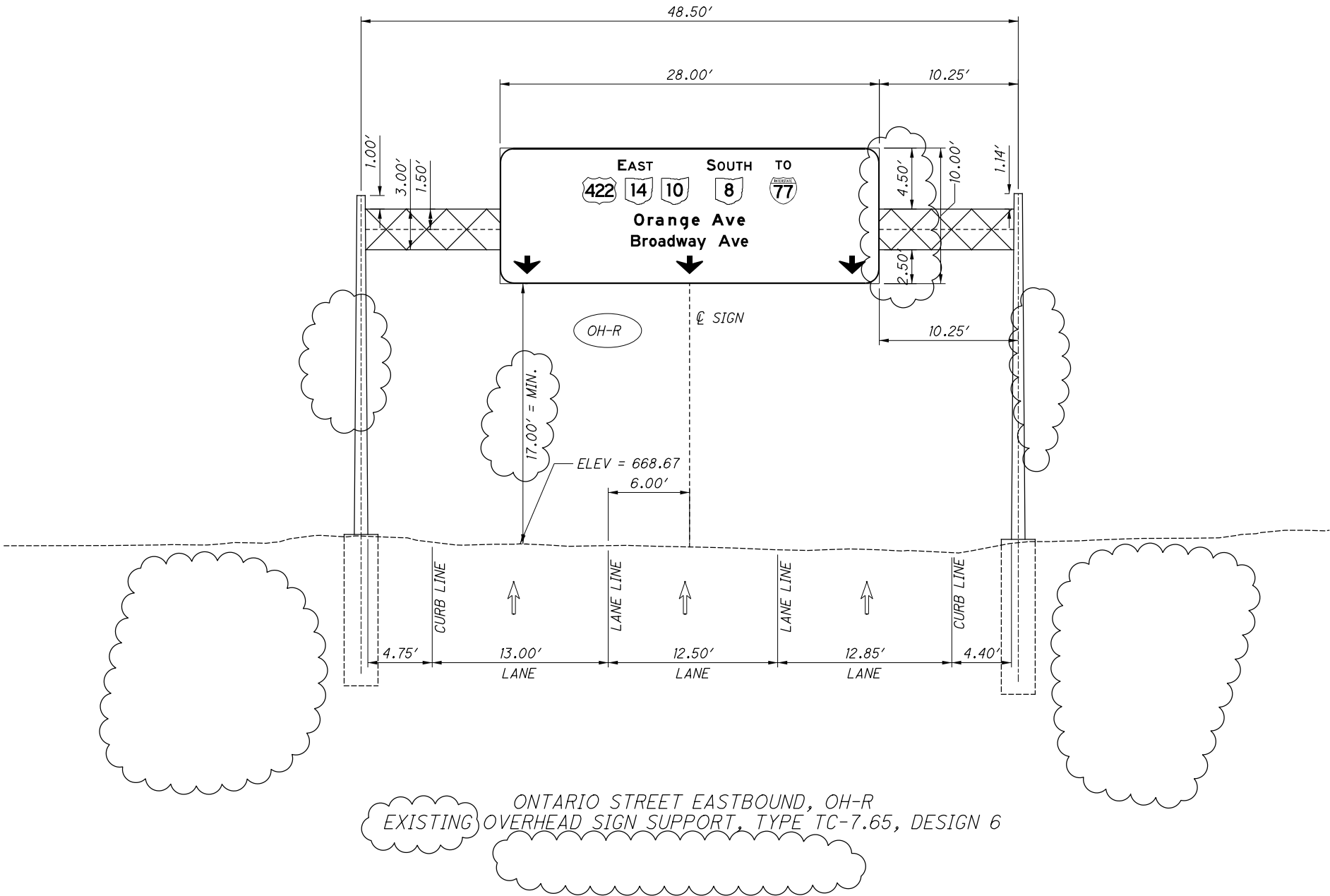
25

HORIZONTAL

SCALE IN FEET

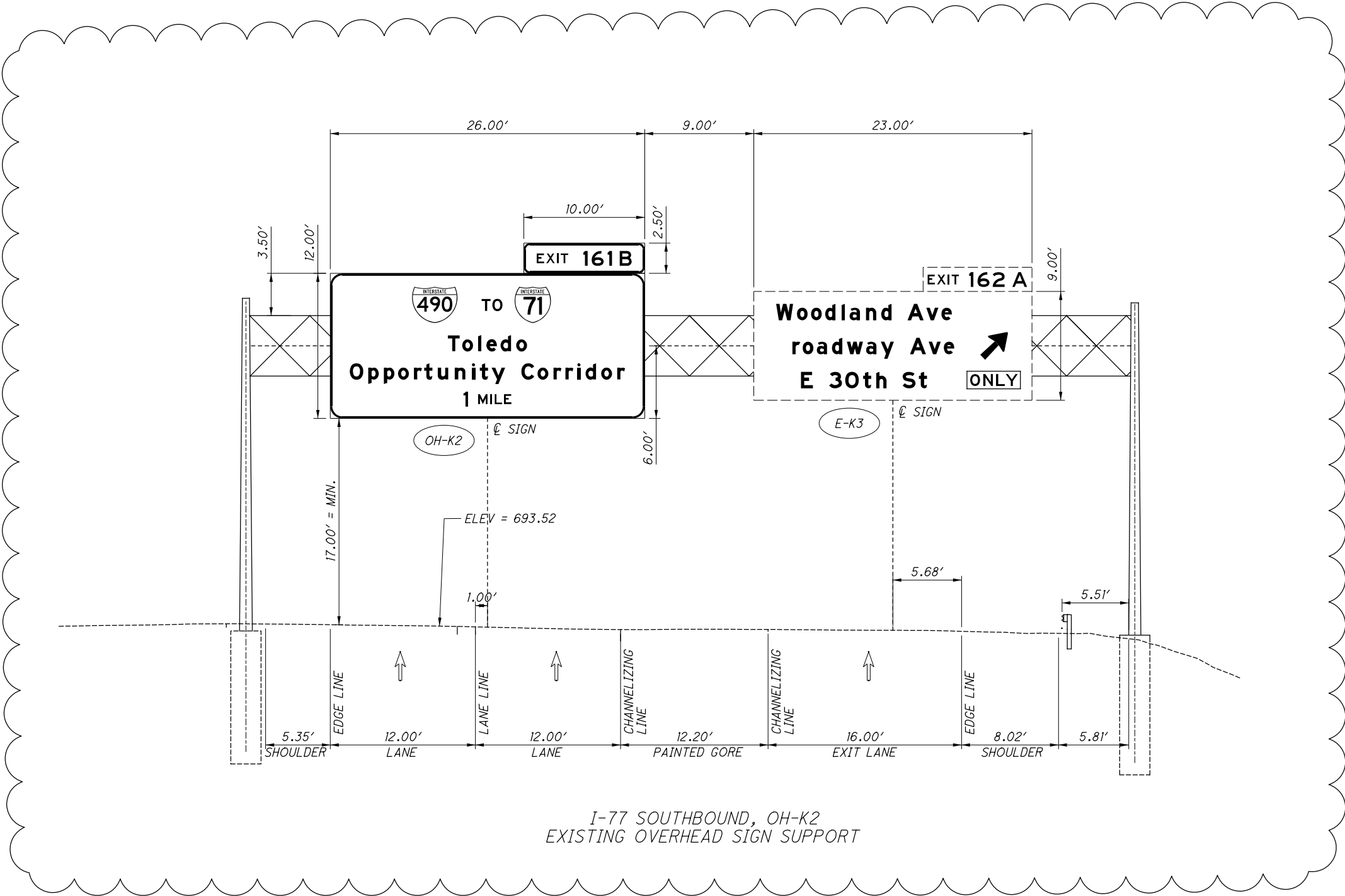


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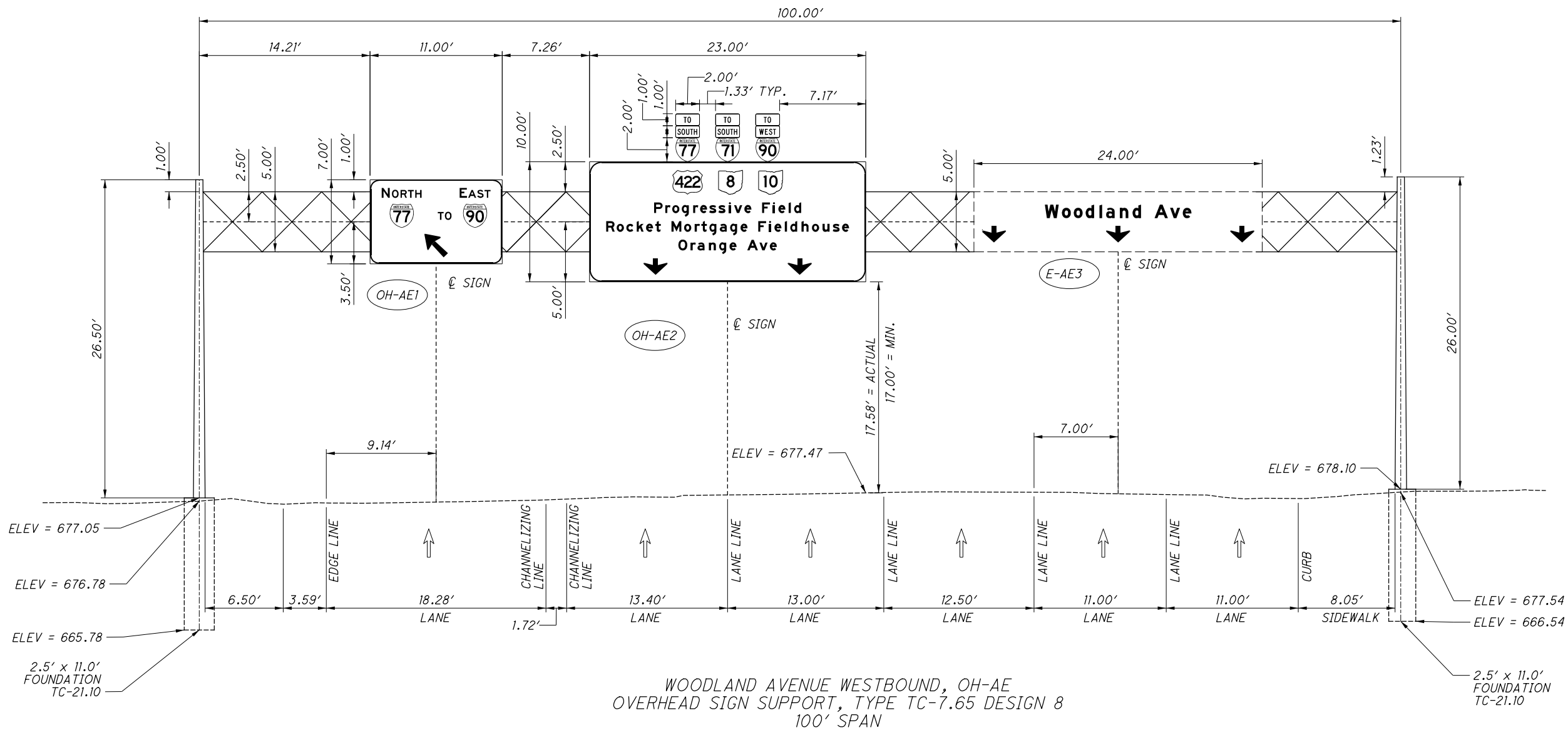


ONTARIO STREET EASTBOUND, OH-R
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 6

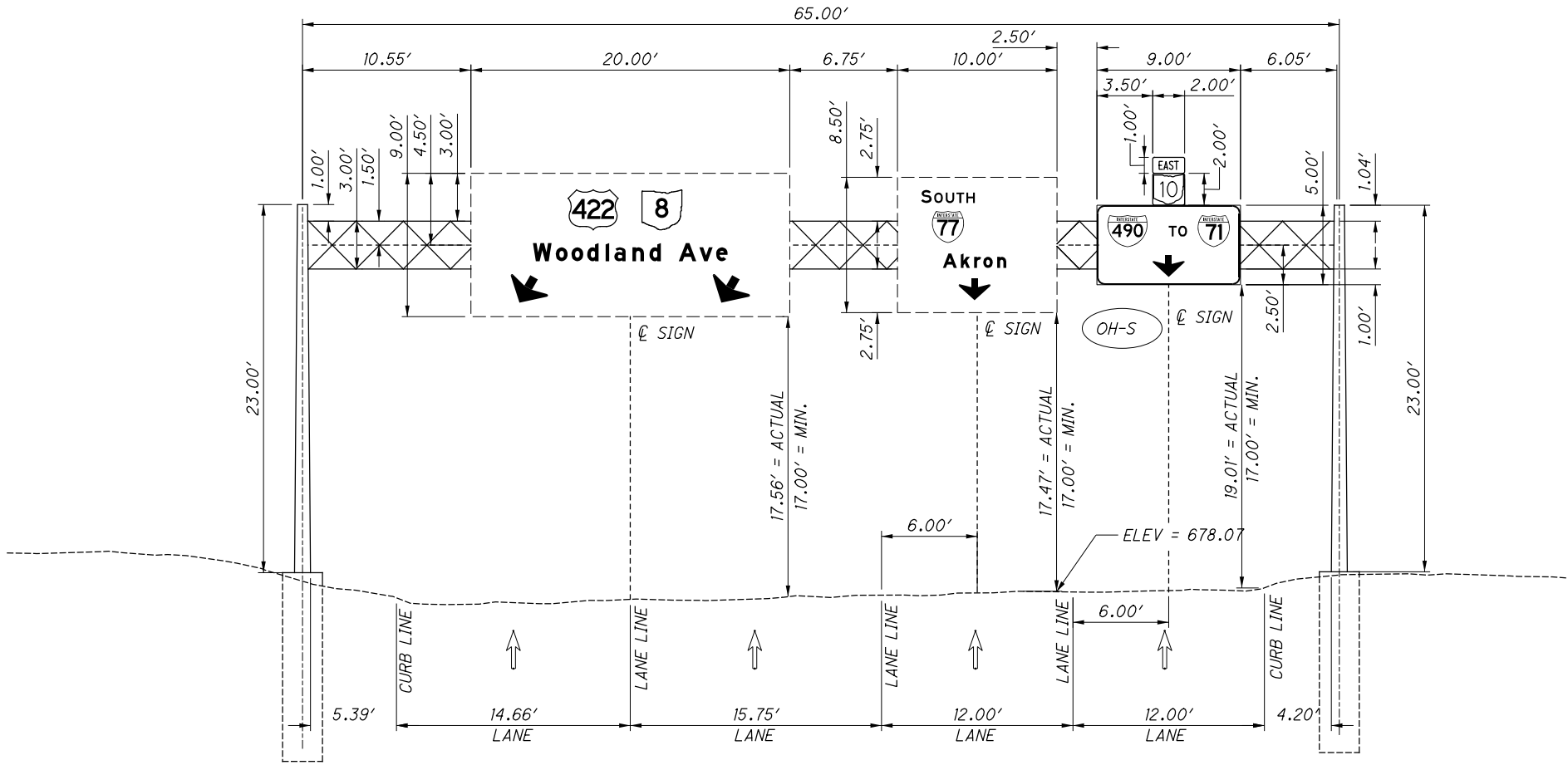
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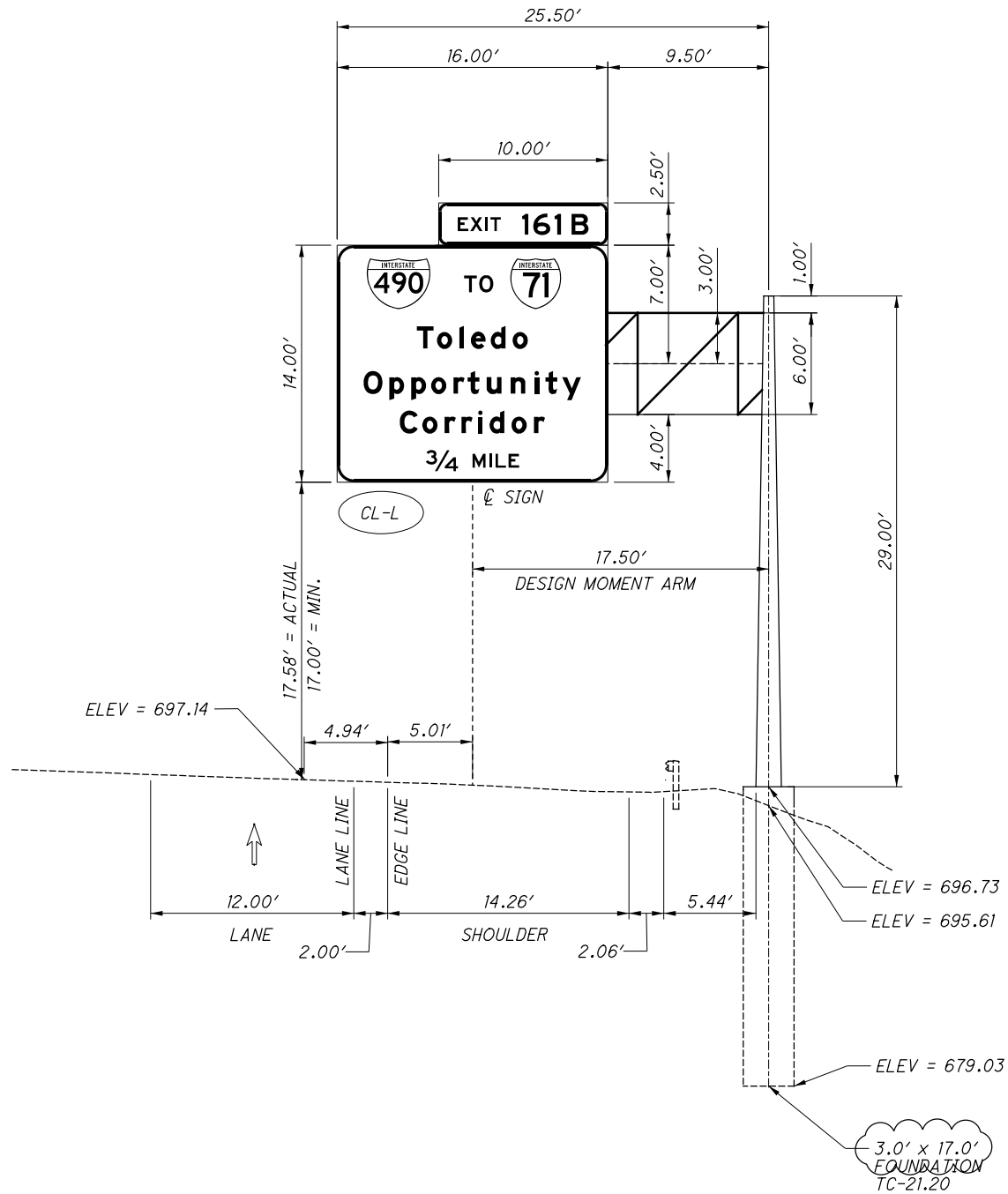


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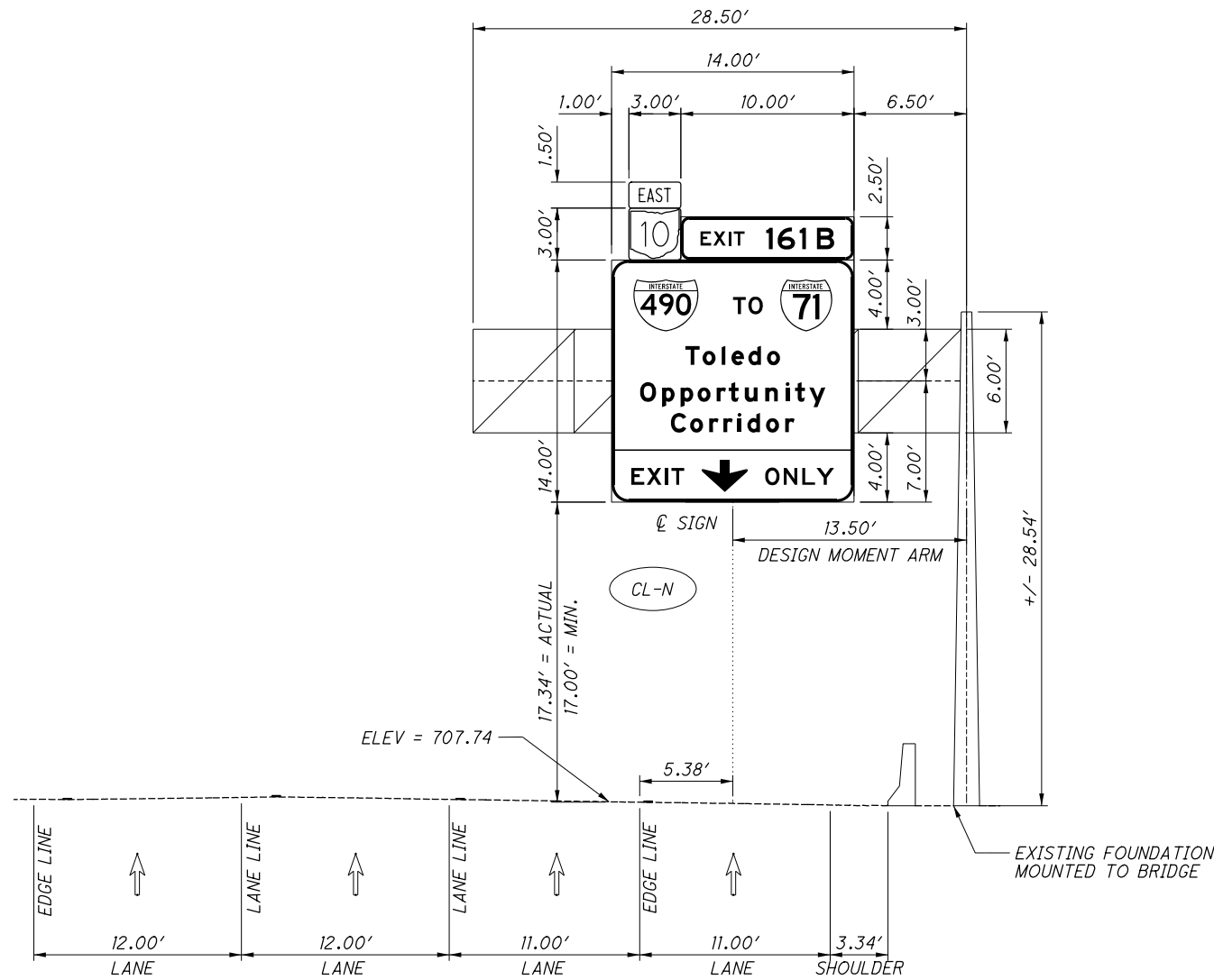


ORANGE AVE EASTBOUND, OH-S
EXISTING OVERHEAD SIGN SUPPORT, TC-7.65, DESIGN 6

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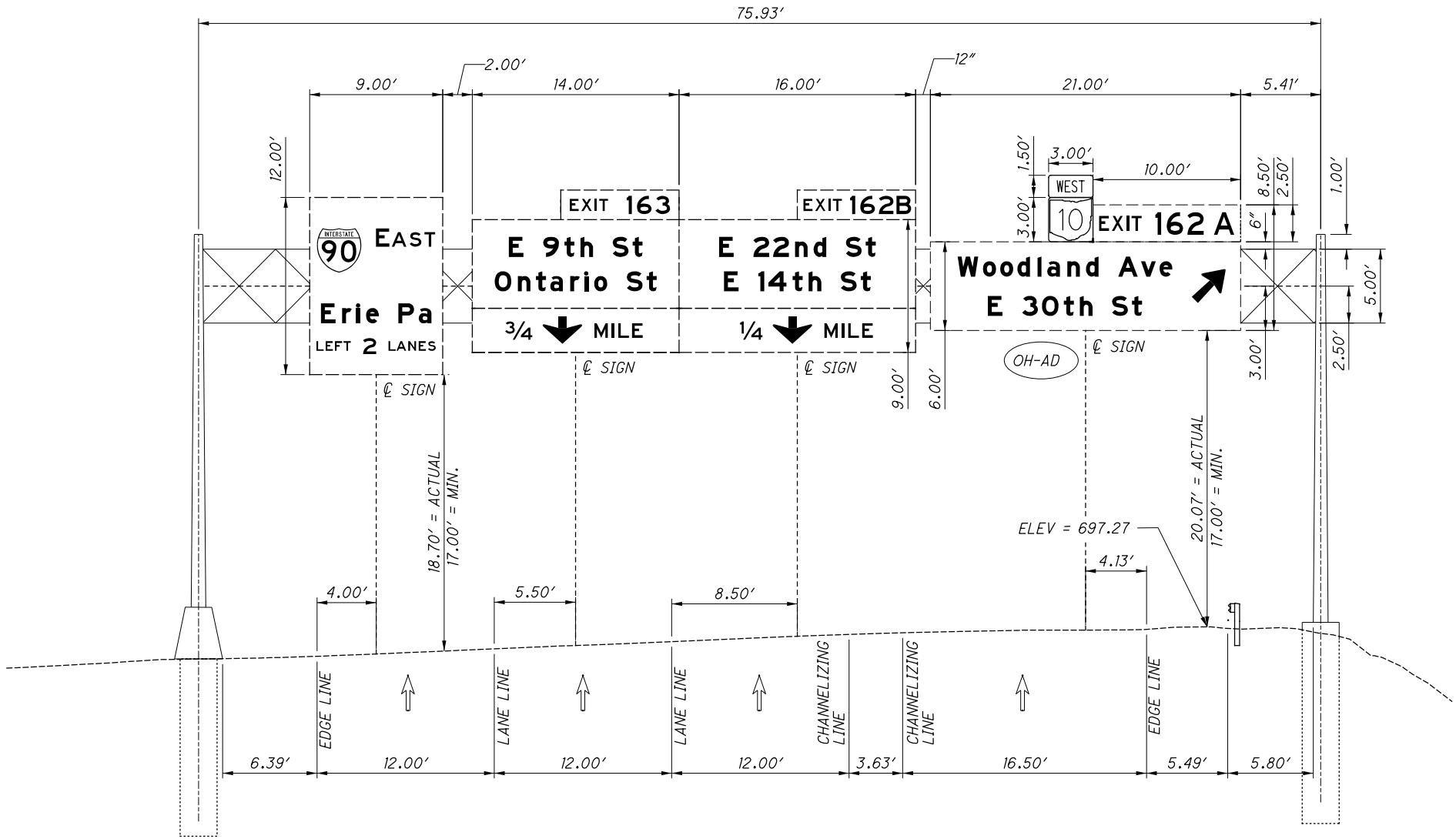


I-77 SOUTHBOUND, CL-L
OVERHEAD CANTILEVER SIGN SUPPORT, TYPE TC-12.30, DESIGN 10
ARM LENGTH 25.50'



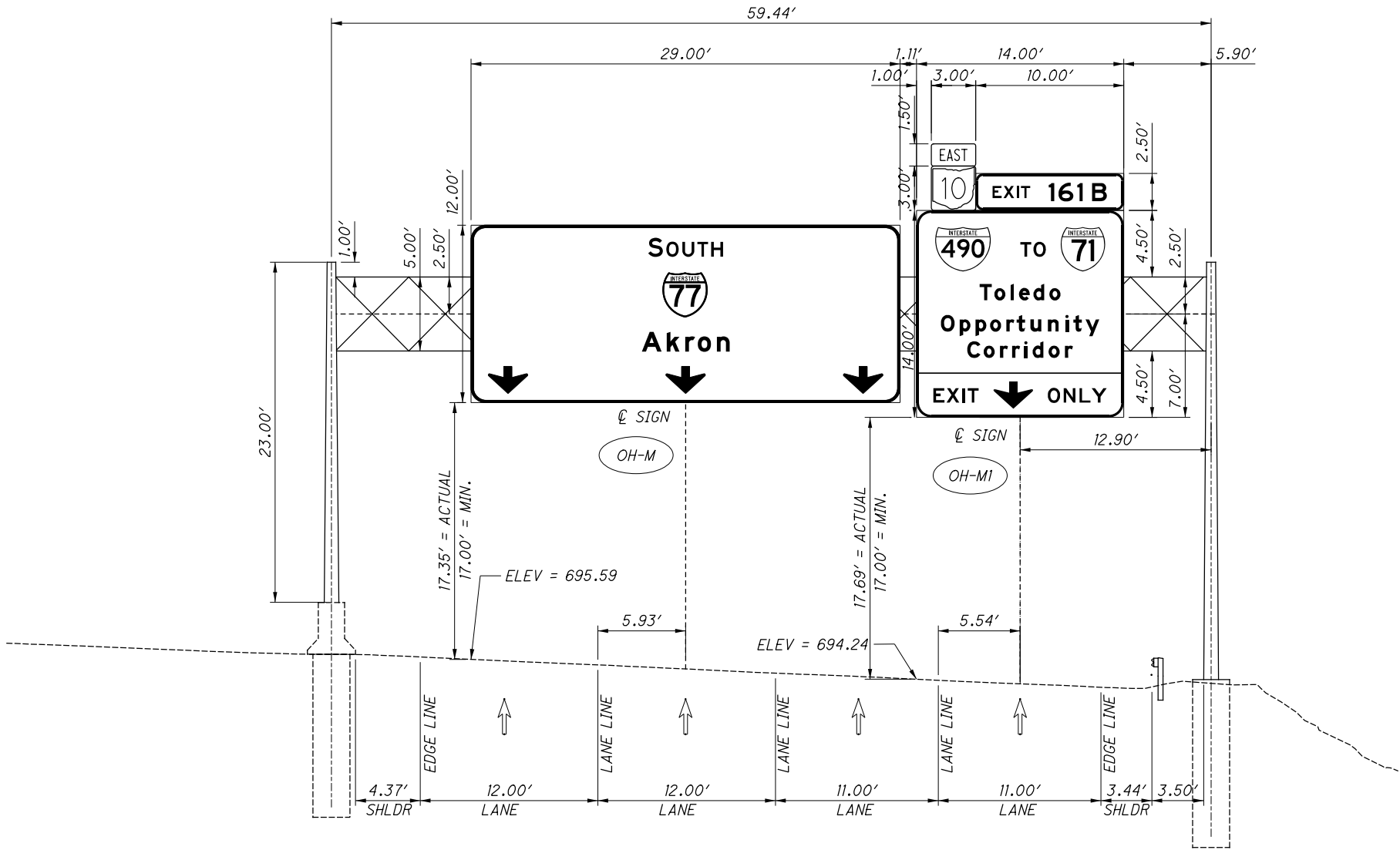
I-77 SOUTHBOUND, CL-N
EXISTING CANTILEVER OVERHEAD SIGN SUPPORT
TYPE TC-12.30, DESIGN 10

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| 0 | 2019-08-02 | RFC |
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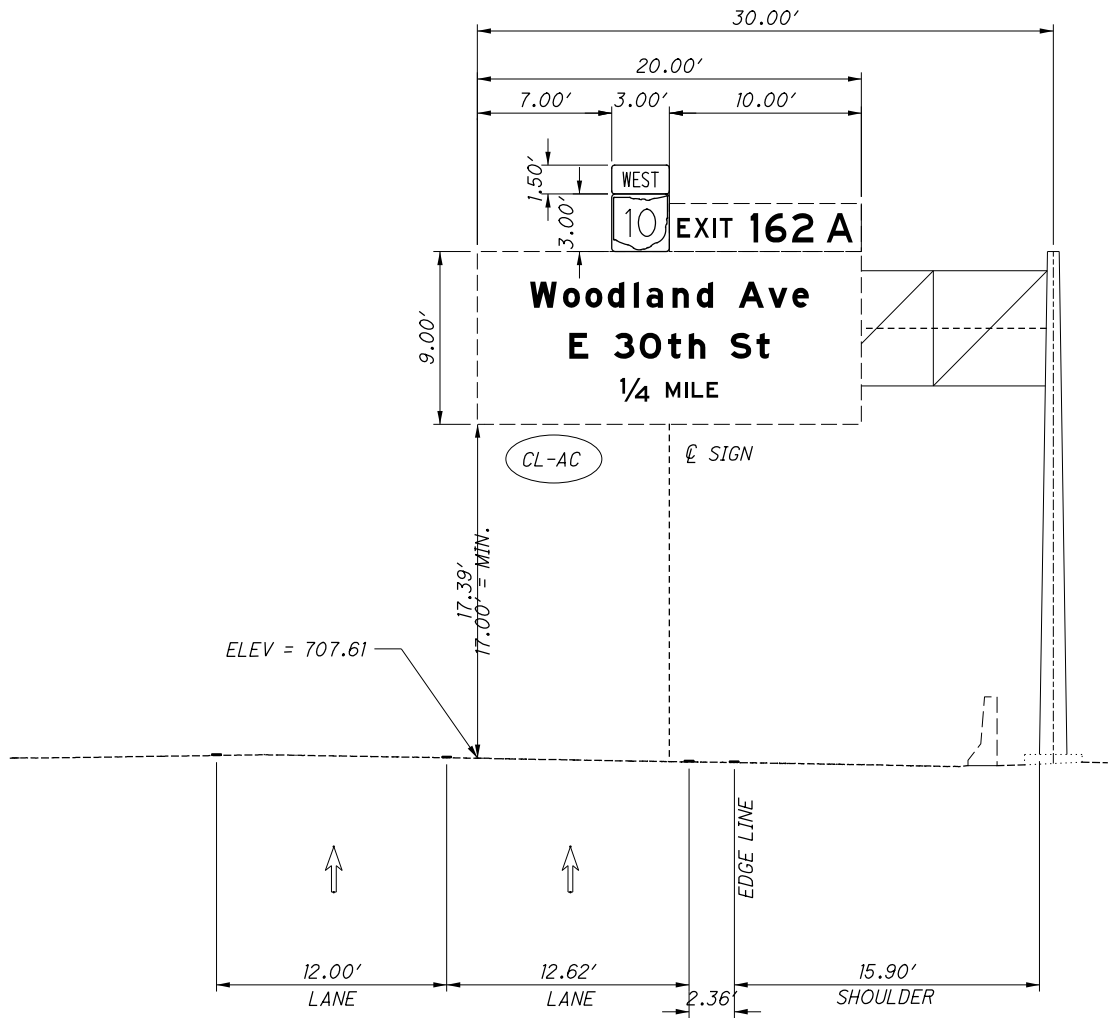
I - 77 NORTHBOUND, OH-AD
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8

| 0 | 2019-08-02 | RFC |
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| NO. | DATE | DESCRIPTION |
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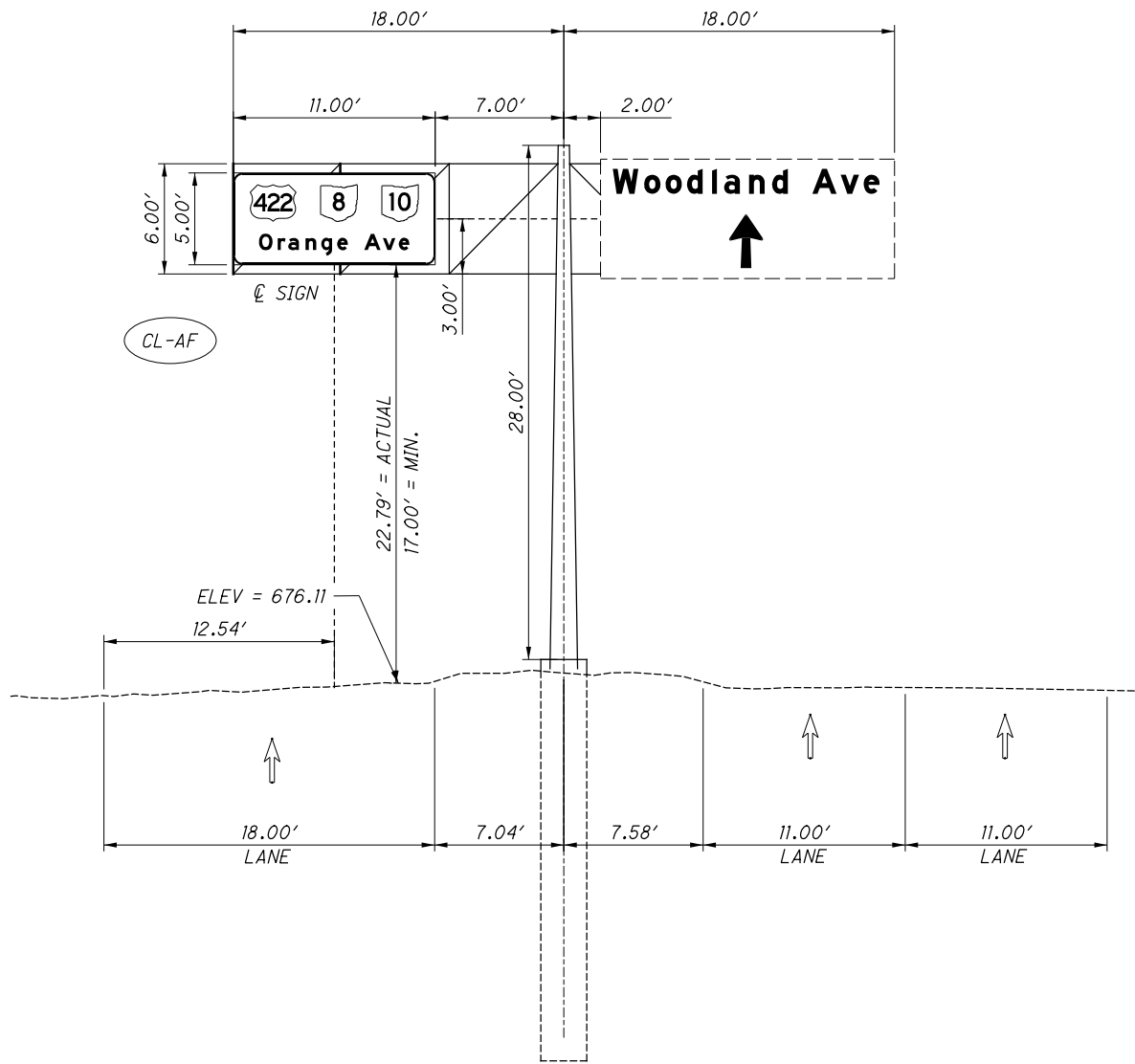


I - 77 SOUTHBOUND, OH-M, OH-M1
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8

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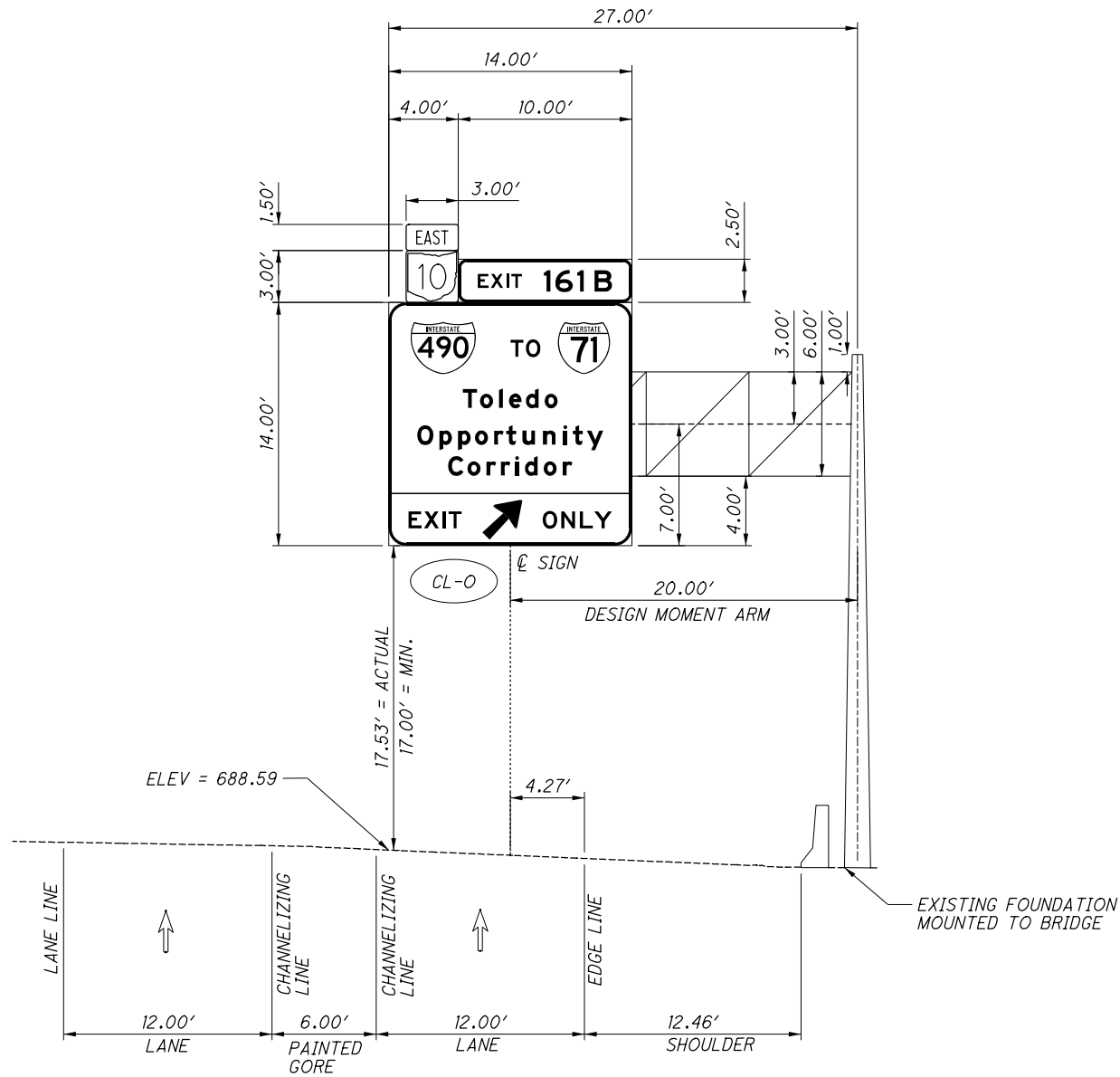


I-77 SOUTHBOUND, CL-AC
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 10

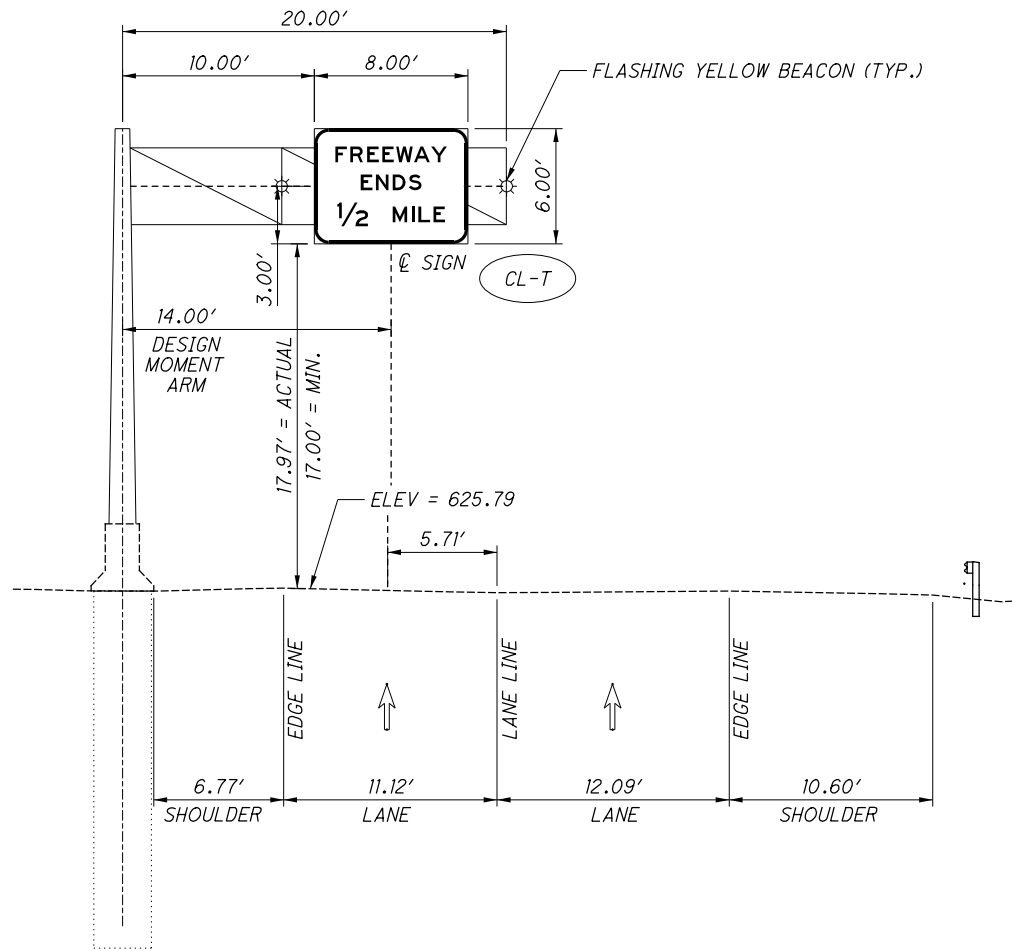


WOODLAND AVENUE WESTBOUND, CL-AF
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-10.48

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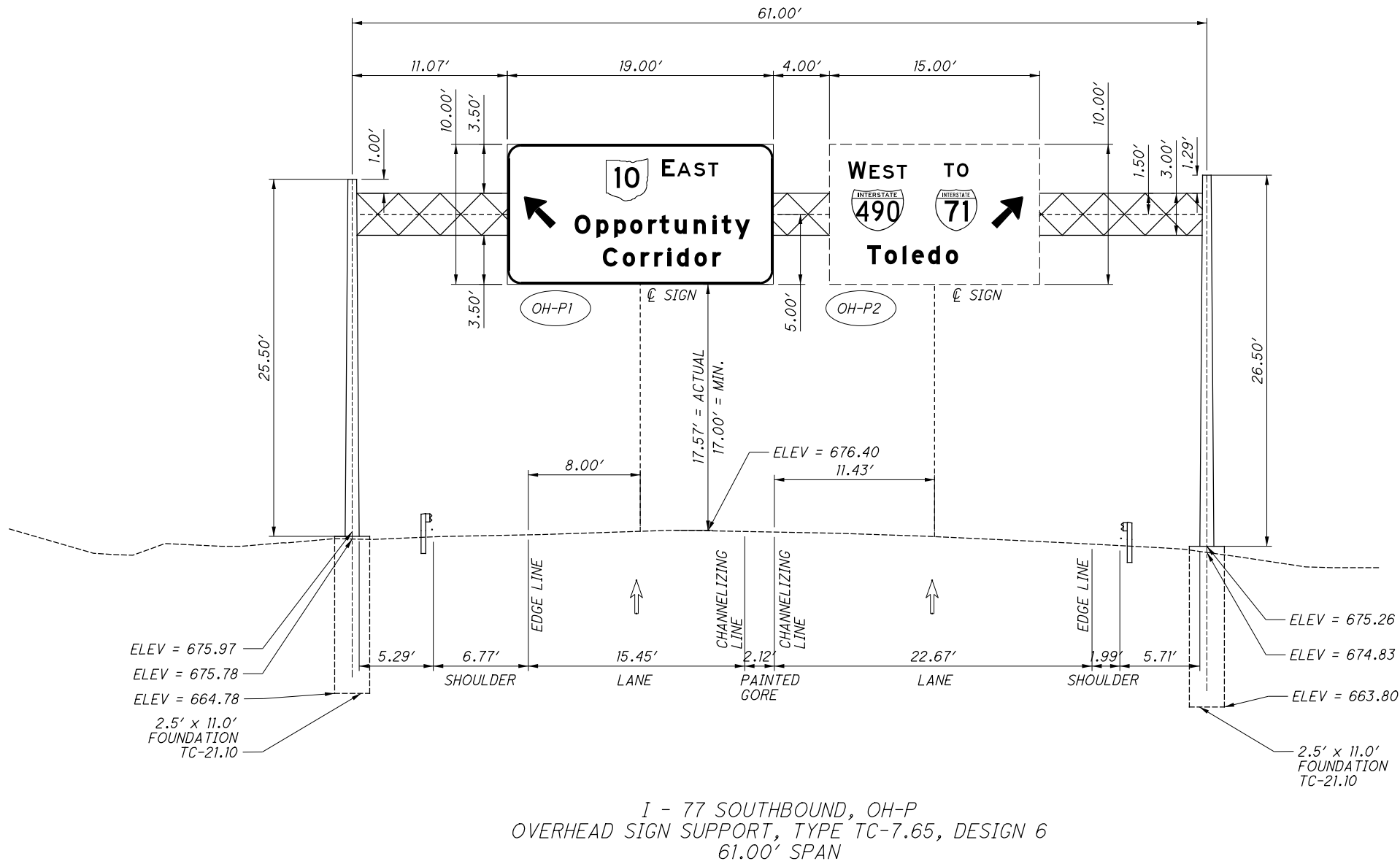


I-77 SOUTHBOUND, CL-O
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 12



I-490 EASTBOUND, CL-T
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 4 MOD

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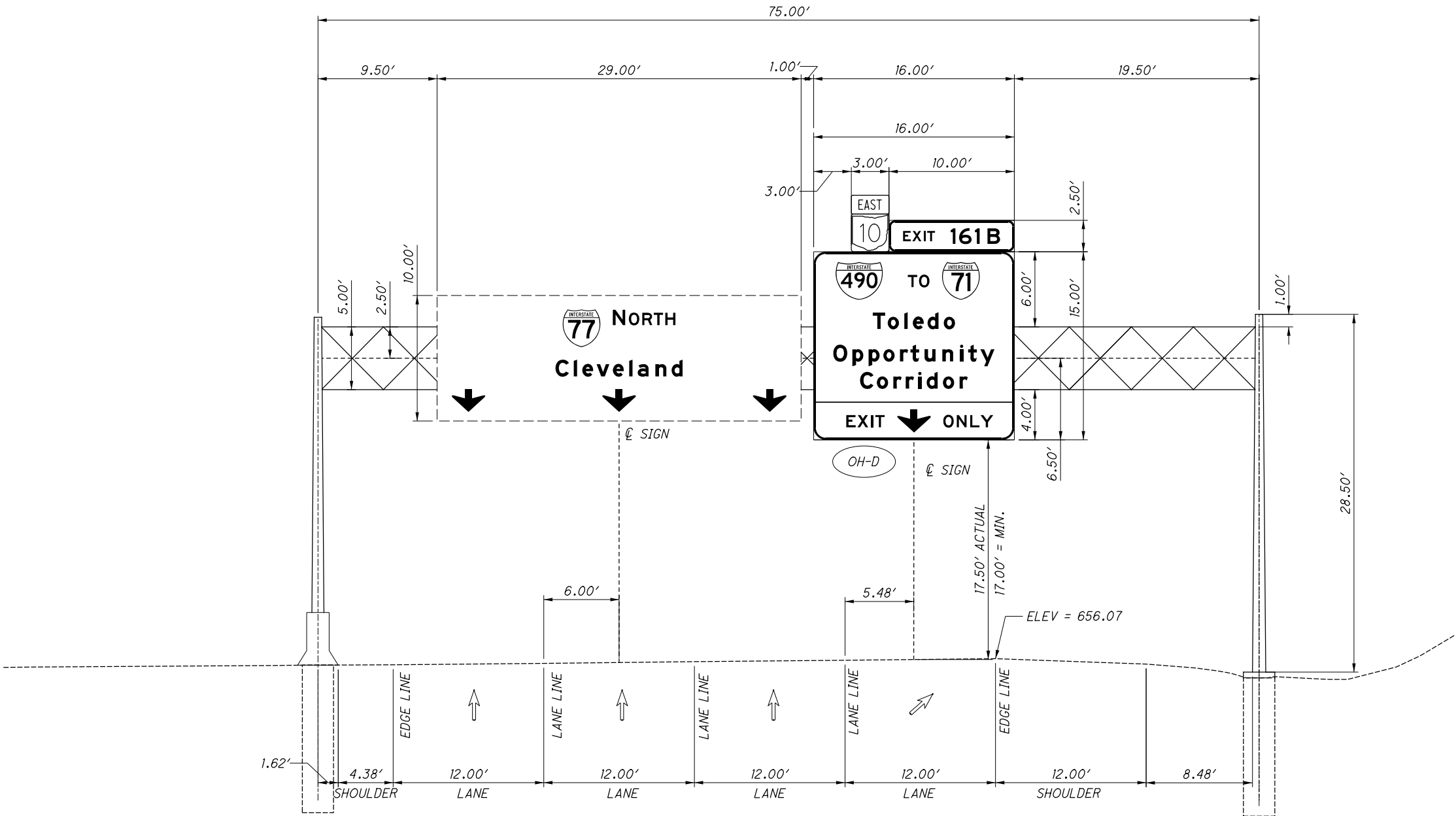
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-IR490 / SR
2.09 / 19.28

SIGN ELEVATION

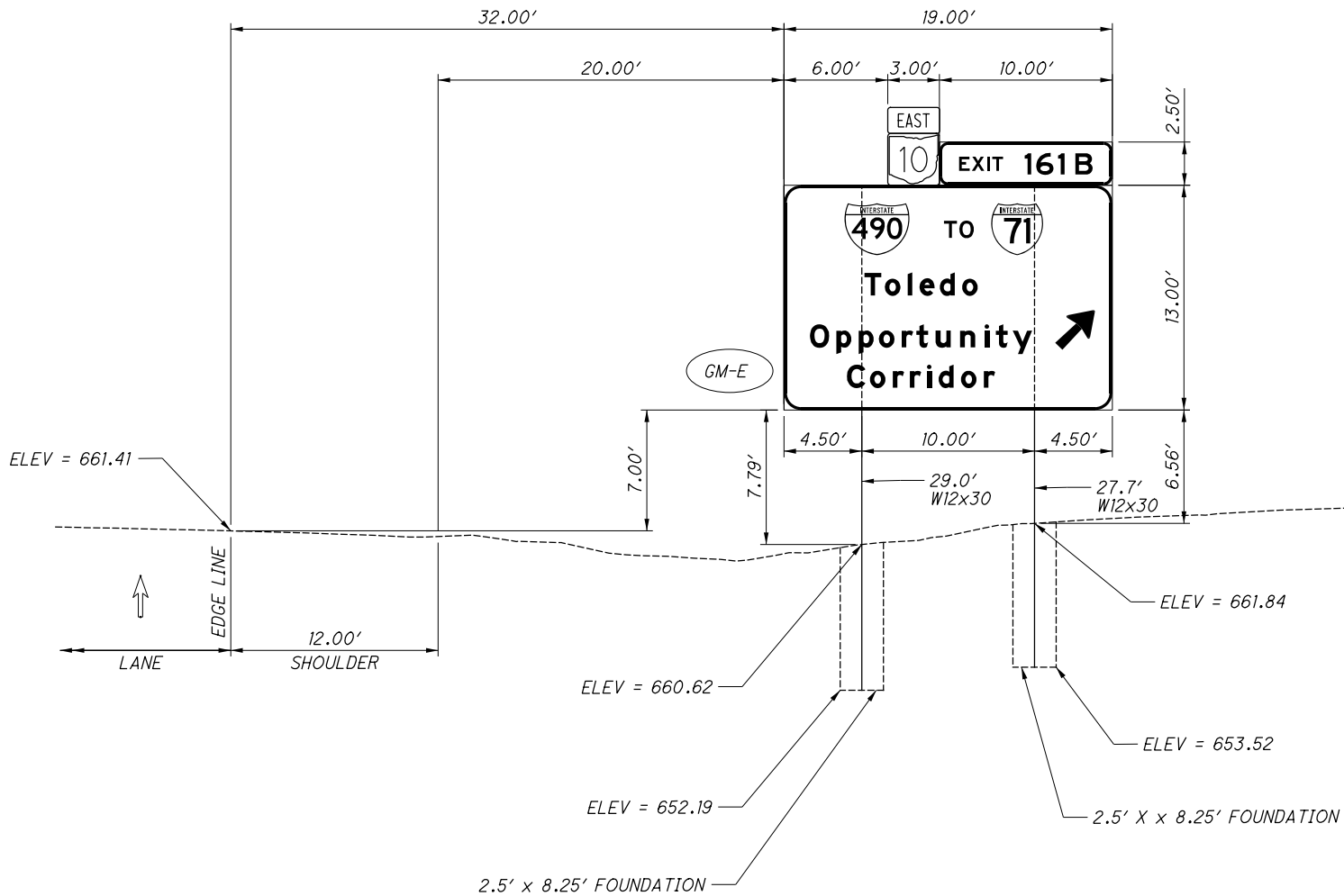
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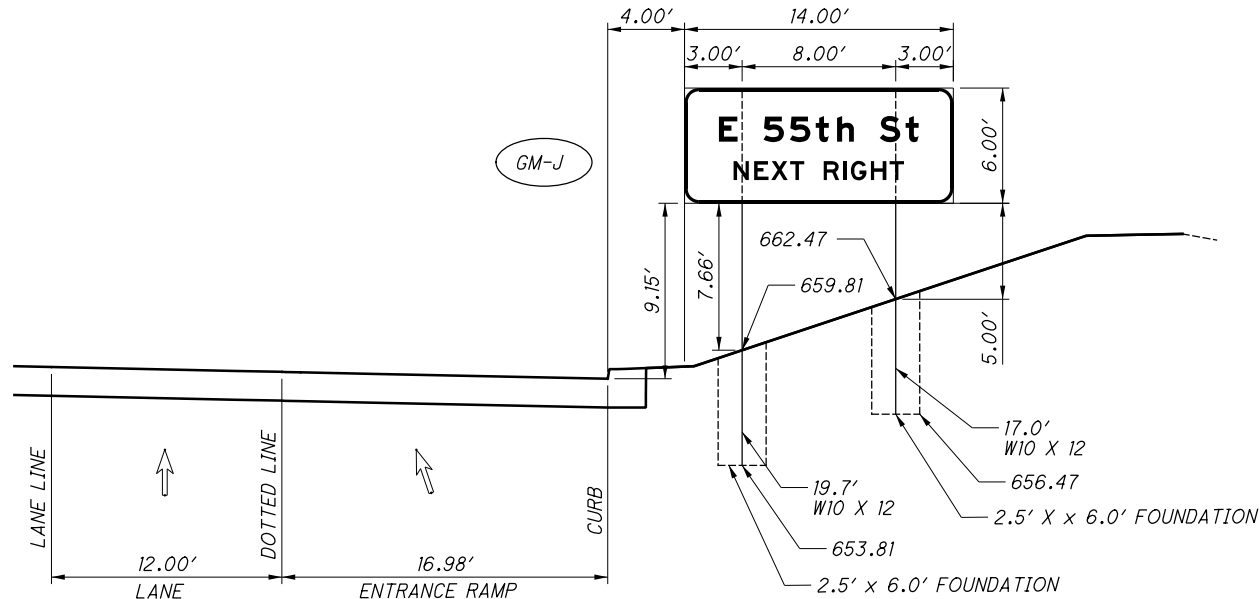


I - 77 NORTHBOUND, OH-D
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8

| 0 | 2019-08-02 | RFC |
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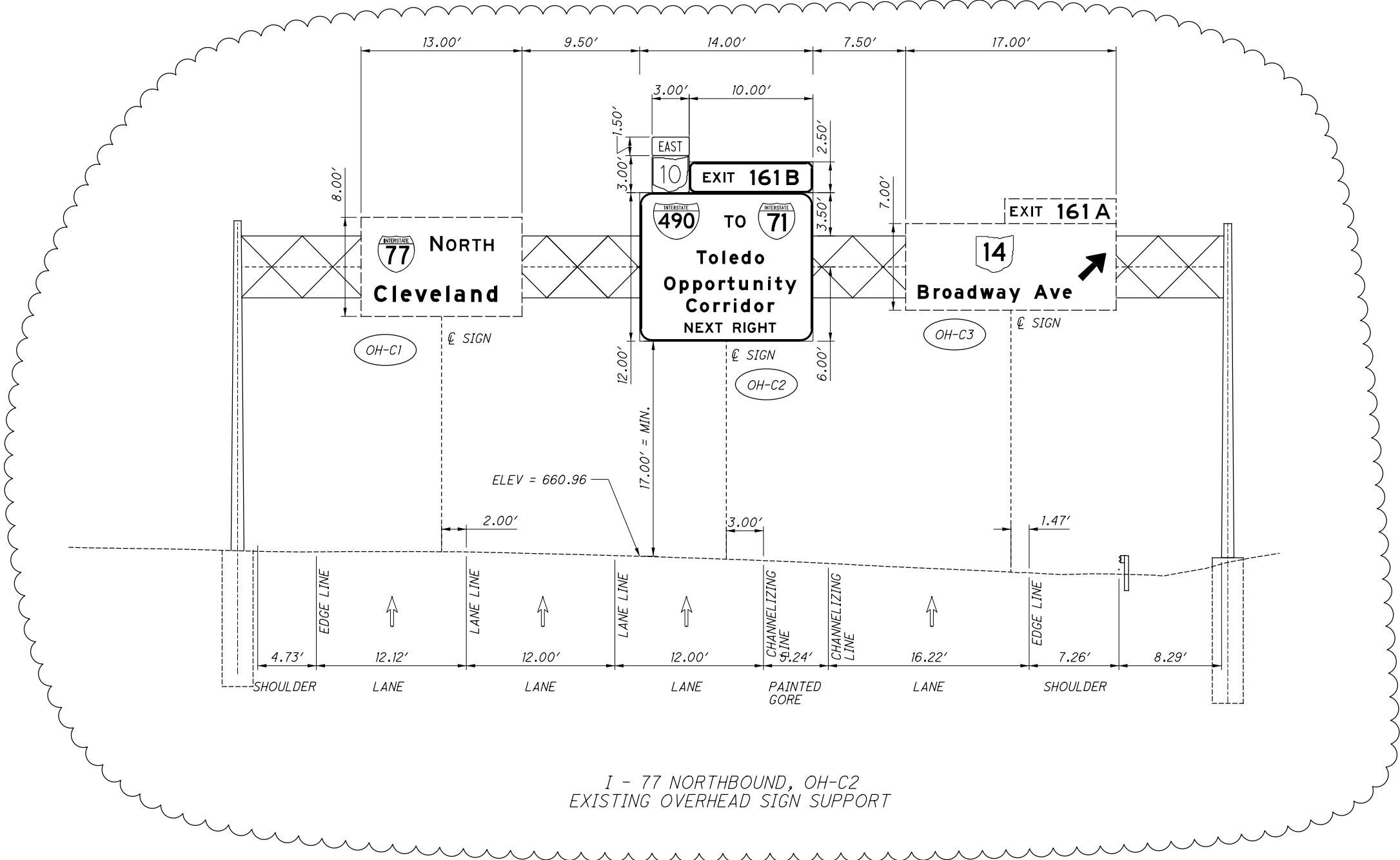


I-77 NORTHBOUND RT, GM-E
STRUCTURAL BEAM SIGN SUPPORT, TC-41.10

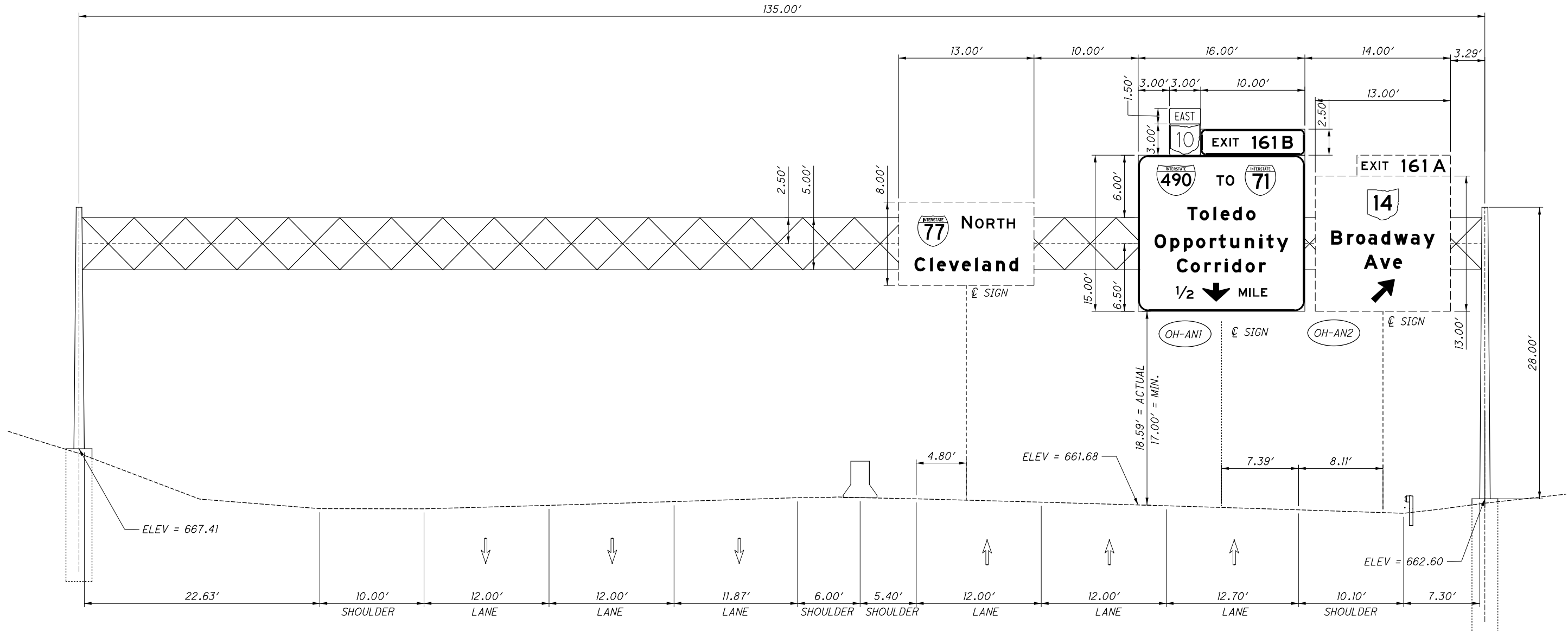


EASTBOUND OPPORTUNITY CORRIDOR, 120+00 RT, GM-J
STRUCTURAL BEAM SIGN SUPPORT, TC-41.10

| 0 | 2019-08-02 | RFC |
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| NO. | DATE | DESCRIPTION |
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| 1 | 2024-09-10 | RECORD DRAWINGS |
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I-77 NORTHBOUND, OH-AN
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-15.115

| 0 | 2019-08-02 | RFC |
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I-77 NORTHBOUND, CL-B

ARM LENGTH = 27.50'

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| 1 | 2024-09-10 | RECORD DRAWINGS |
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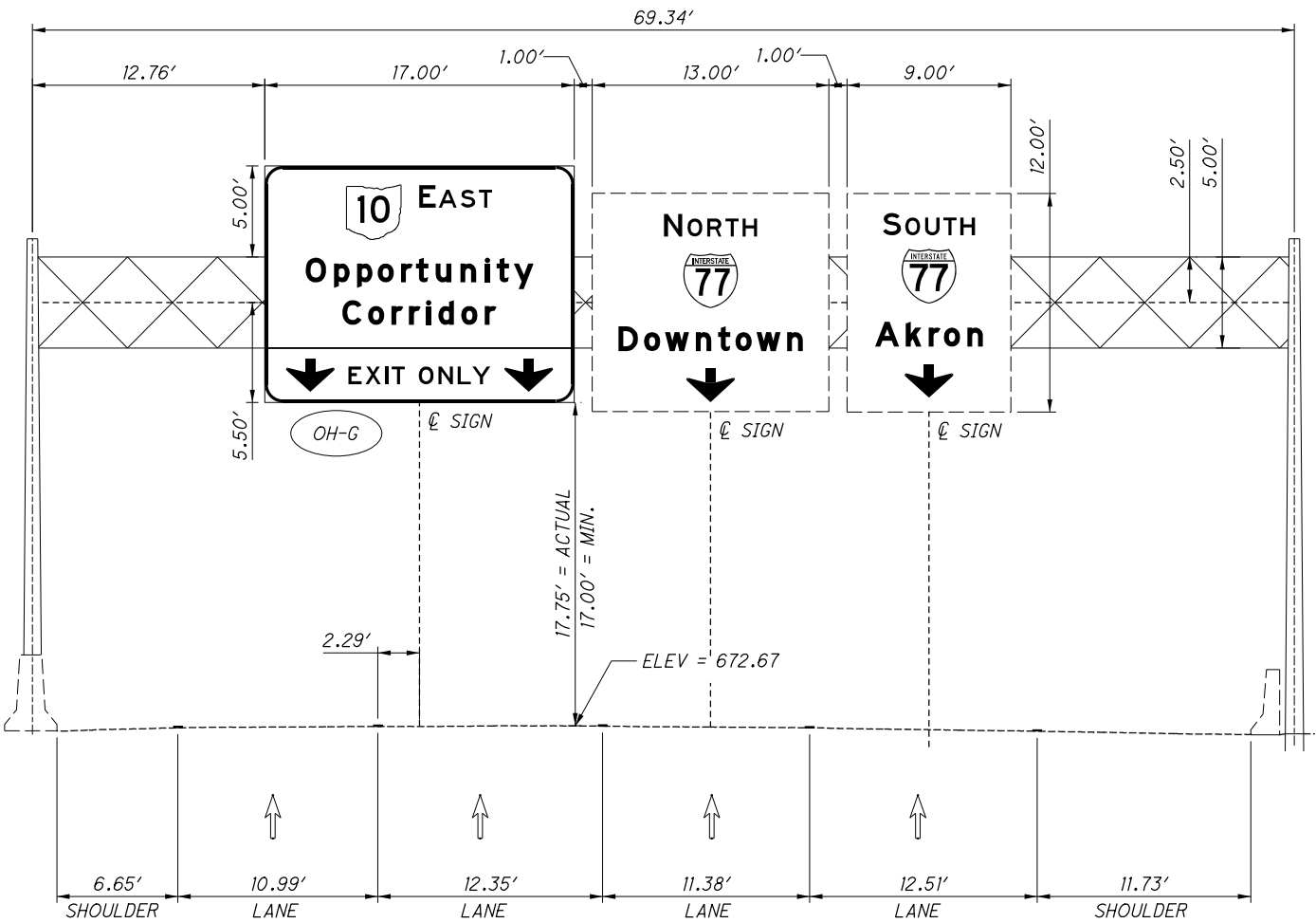
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RECORD PLANS

RECORD PLANS

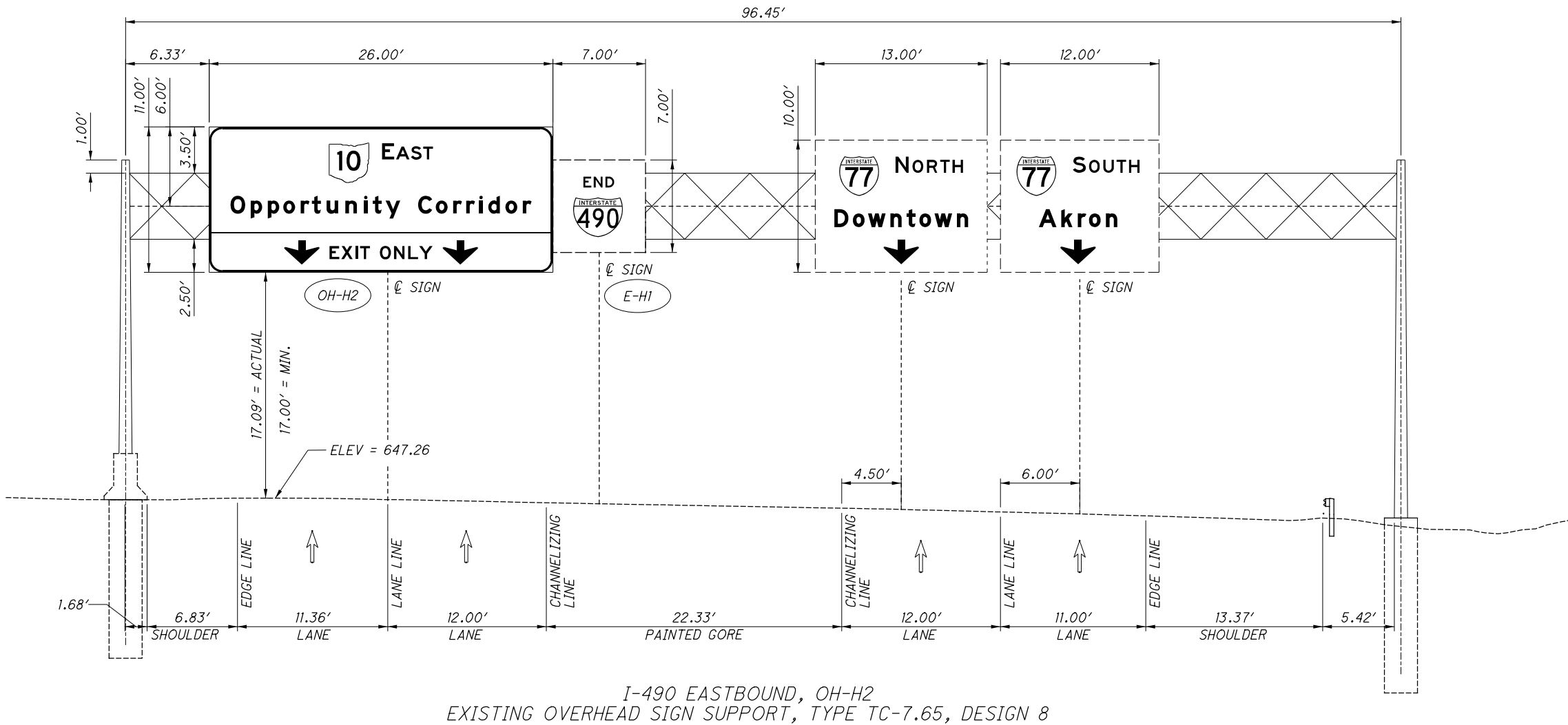
RECORD PLANS





I-490 EASTBOUND, OH-G
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8

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I-490 EASTBOUND, OH-H2
EXISTING OVERHEAD SIGN SUPPORT, TYPE TC-7.65, DESIGN 8

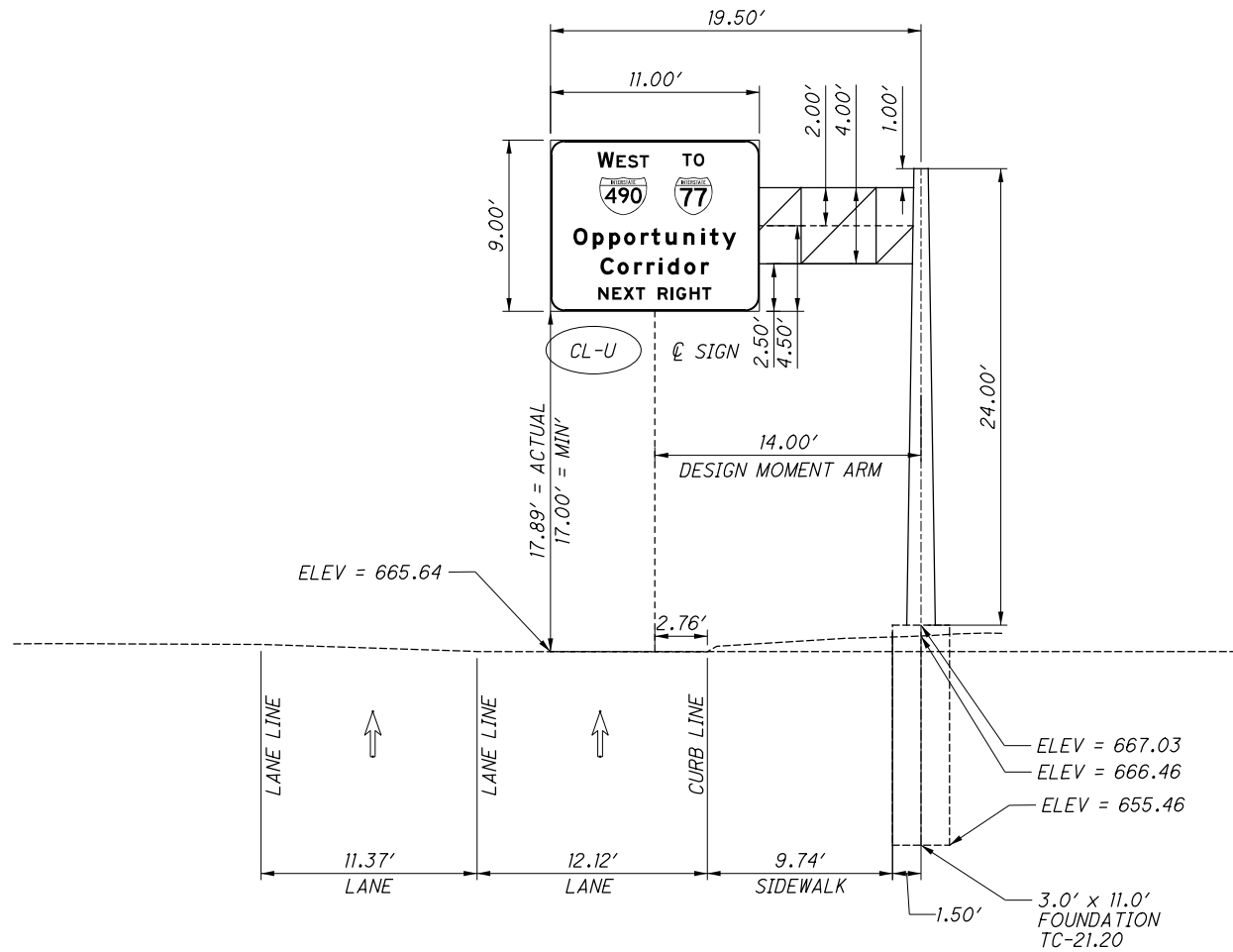
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| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

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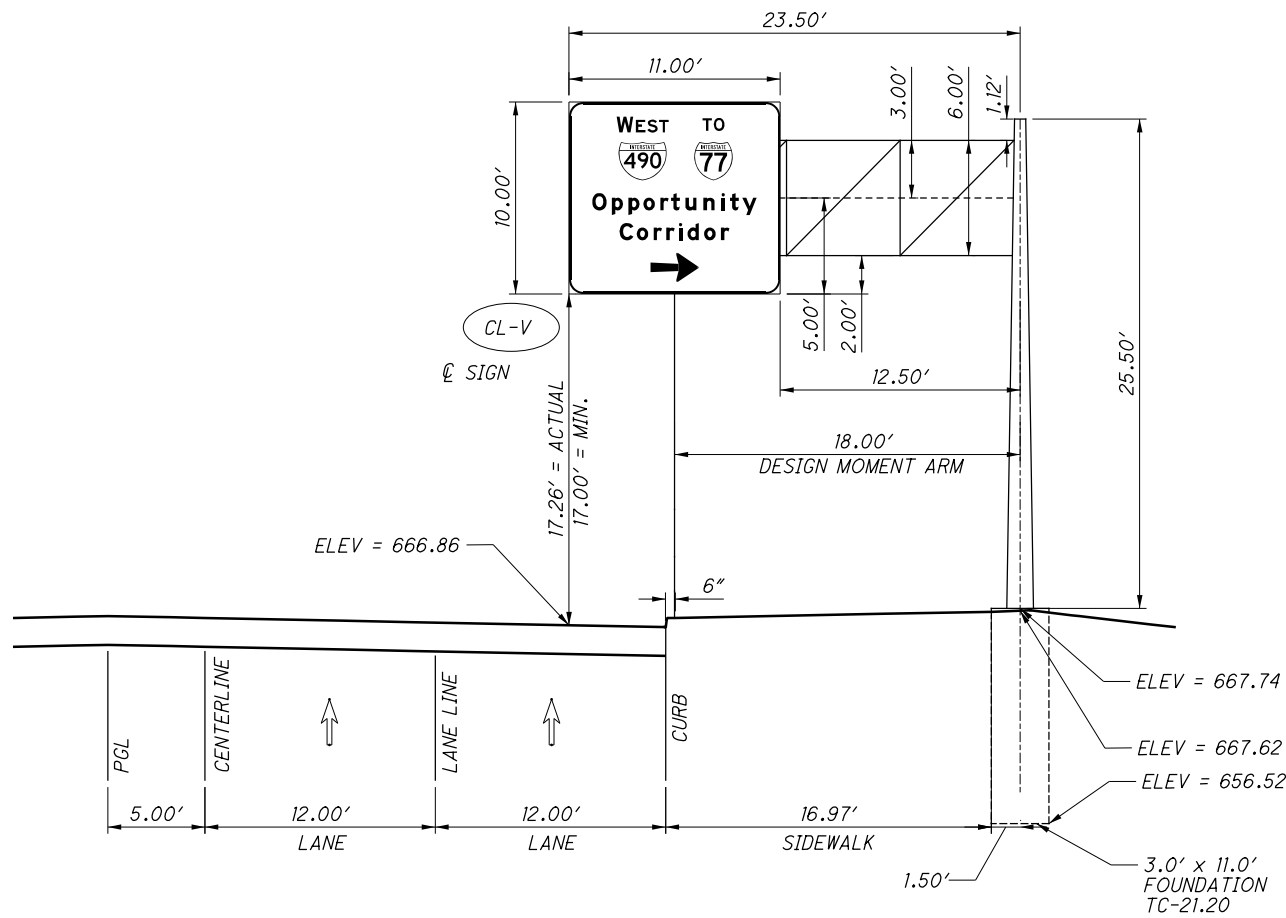




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E. 55TH STREET NORTHBOUND, CL-U
OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 4
ARM LENGTH = 19.5'

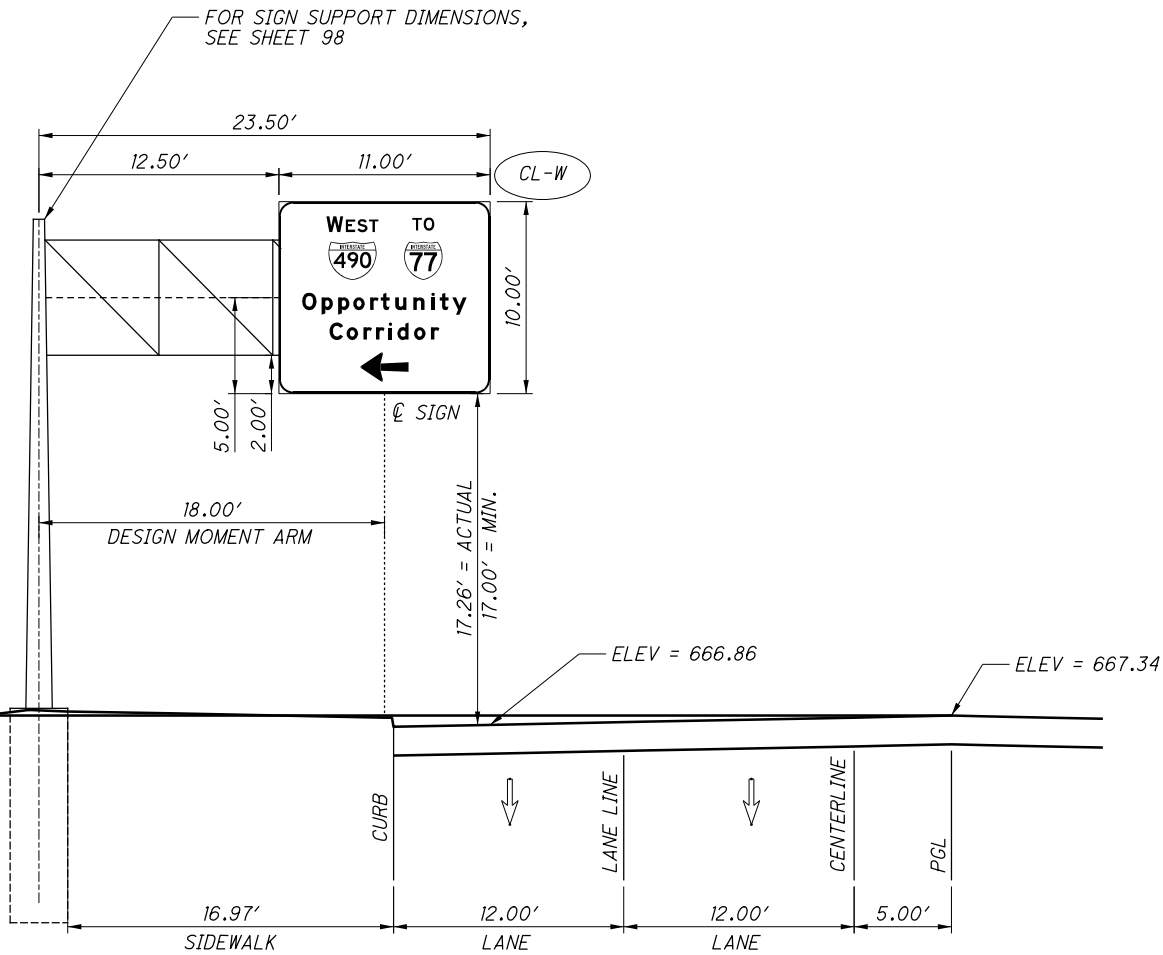


E. 55TH STREET NORTHBOUND, CL-V
OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6
ARM LENGTH 23.5'
SIGN CL-W PLACED ON OPPOSITE SIDE OF SUPPORT

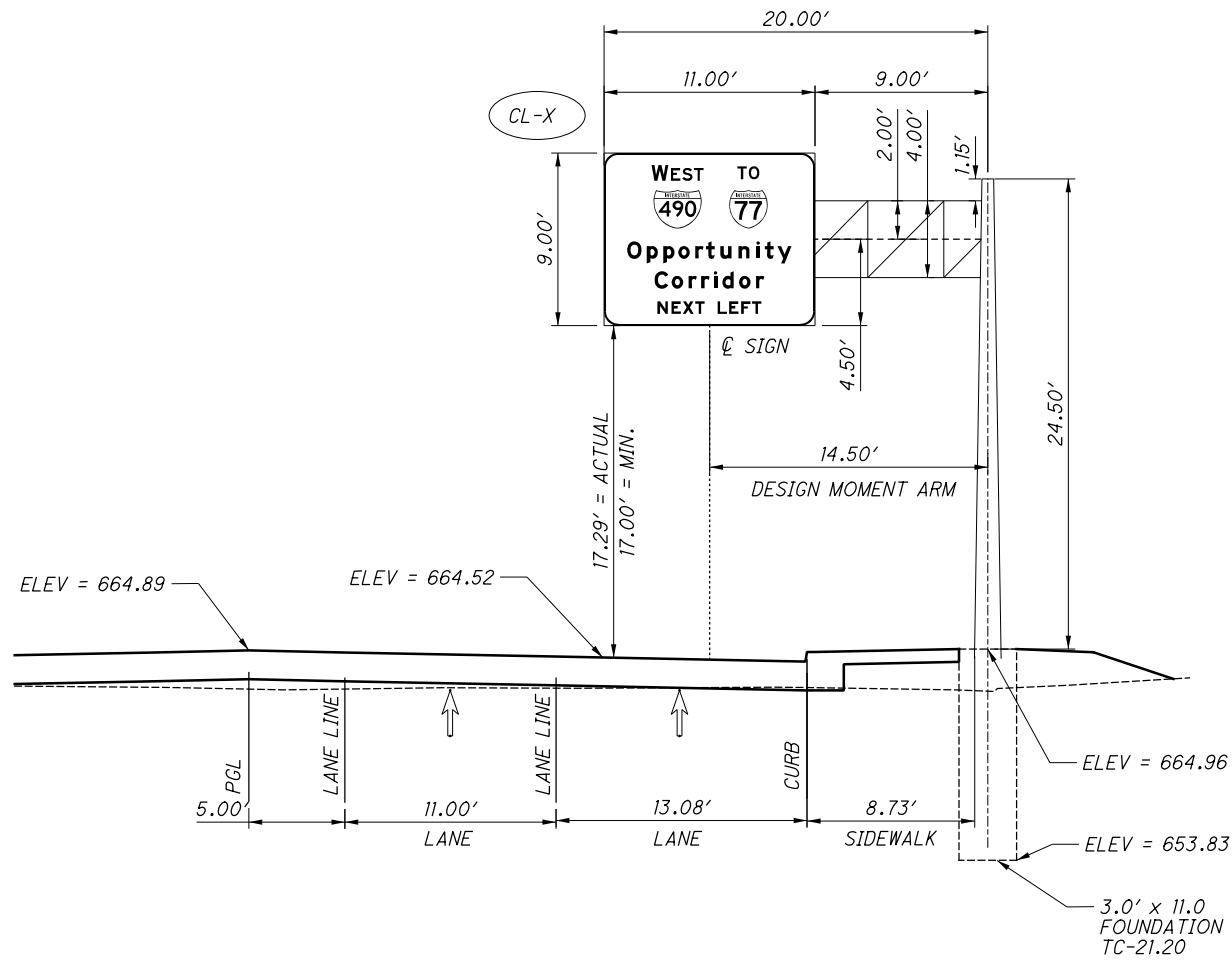
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CUY-IR490/ SR010-
2.09 / 19.28

SIGN ELEVATIONS
SIGNS U, V



E. 55TH STREET SOUTHBOUND, CL-W
OVERHEAD SIGN SUPPORT, TYPE TC-12.30, DESIGN 6
ARM LENGTH 23.5'
SIGN CL-V PLACED ON OPPOSITE SIDE OF SUPPORT

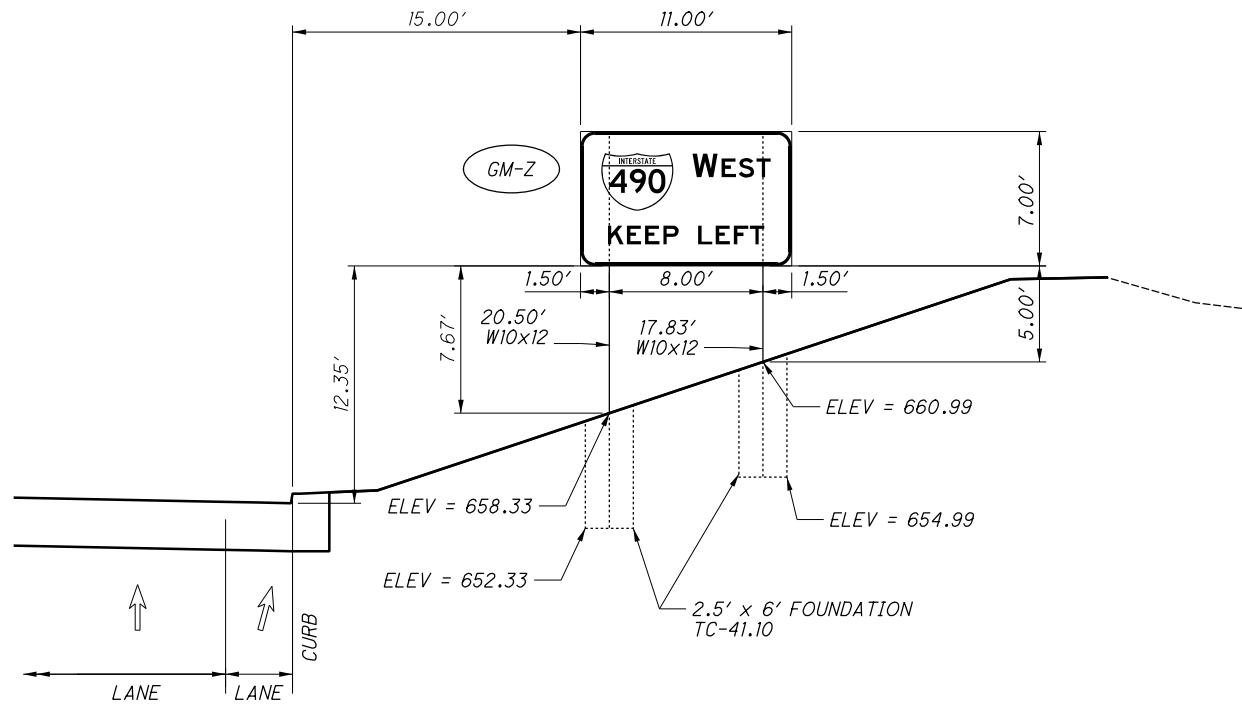


E. 55TH STREET SOUTHBOUND, CL-X
OVERHEAD SIGN SUPPORT, TC-12.30, DESIGN 4
ARM LENGTH 20.0'

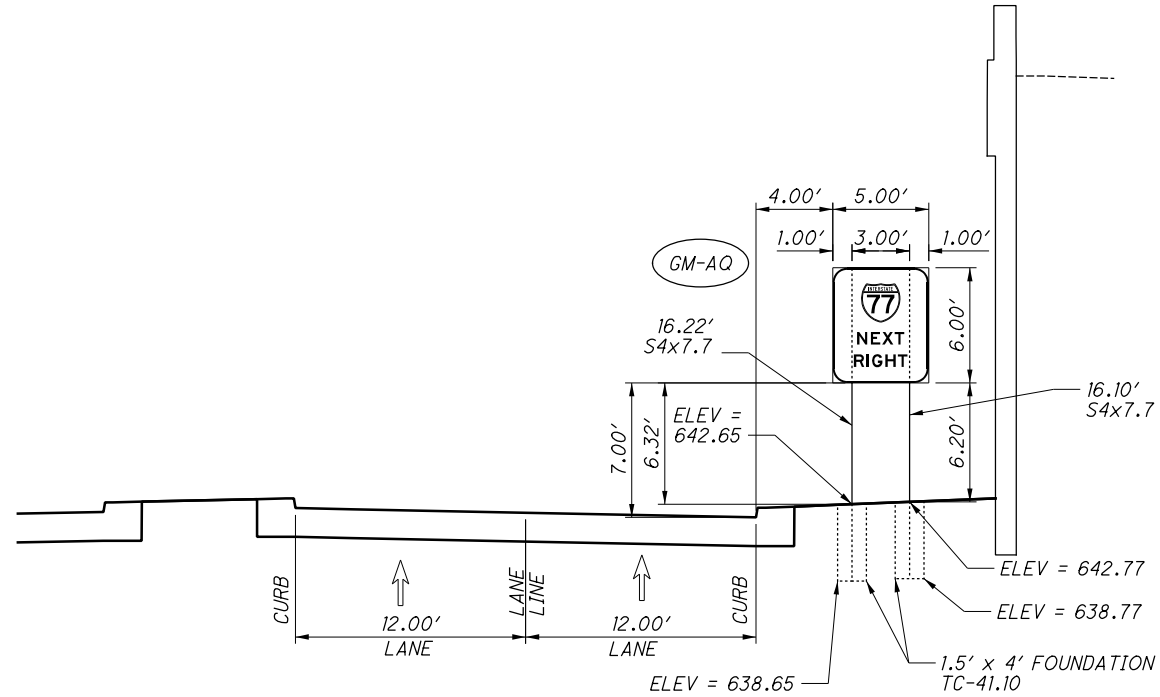
| NO. | DATE | DESCRIPTION |
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SIGN ELEVATIONS
SIGNS W, X

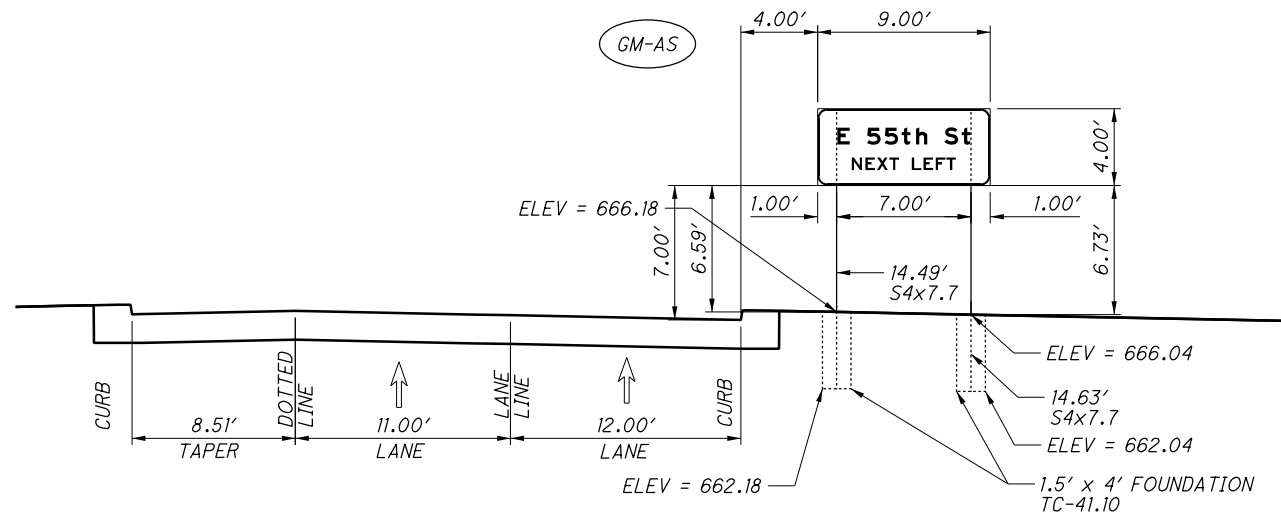
CUY-IR490/ SR010-
2.09 / 19.28



I - 490 WESTBOUND STA. 121+50 LT, GM-Z
STRUCTURAL BEAM SUPPORT, TC-41.10
(LOOKING WEST)

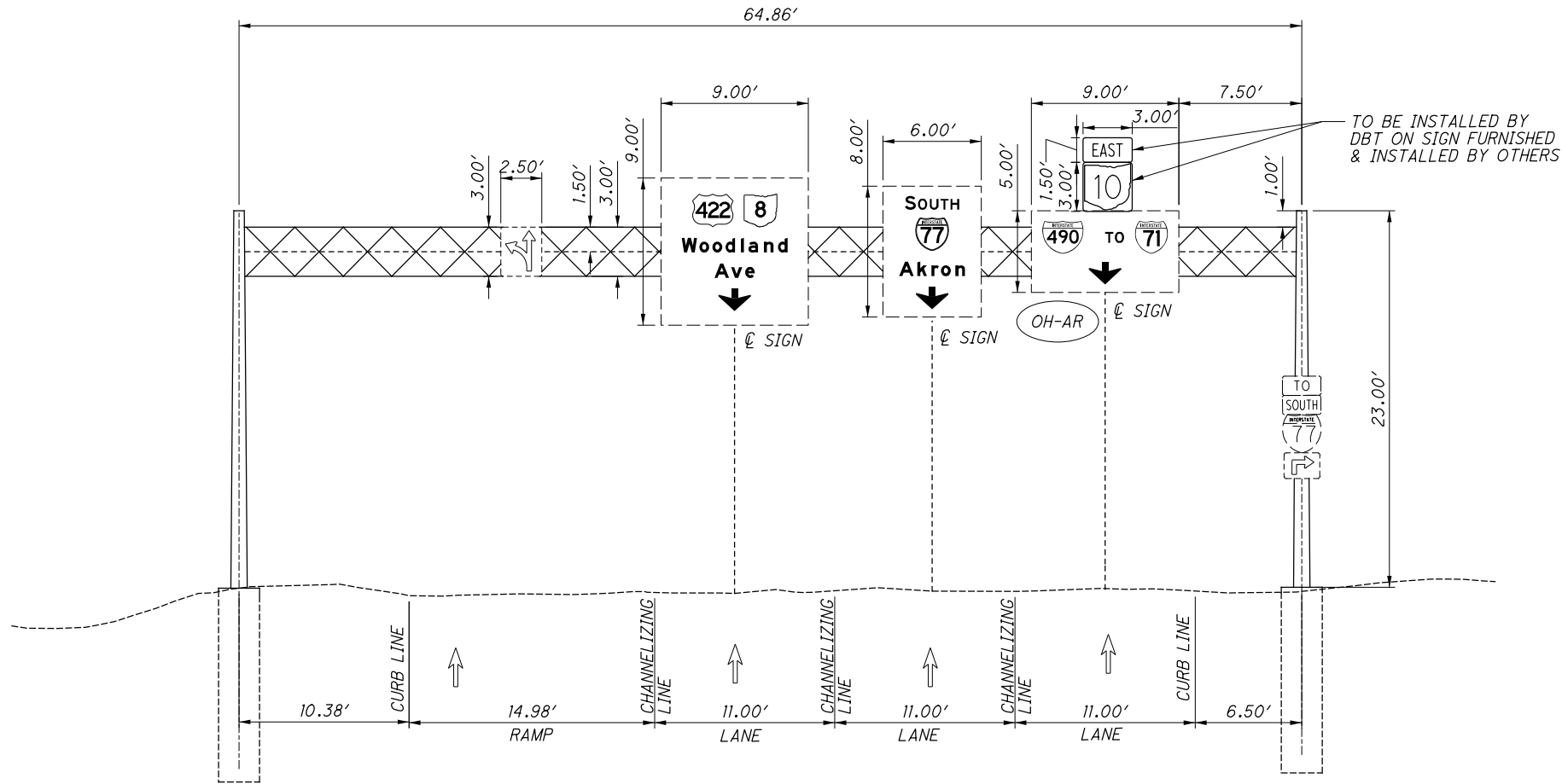


I - 490 WESTBOUND STA. 129+75 LT, GM-AQ
STRUCTURAL BEAM SUPPORT, TC-41.10
(LOOKING WEST)



I - 490 WESTBOUND STA. 137+60 LT, GM-AS
STRUCTURAL BEAM SUPPORT, TC-41.10
(LOOKING WEST)

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| 0 | 2019-08-02 | RFC |
| ISSUE RECORD | | |

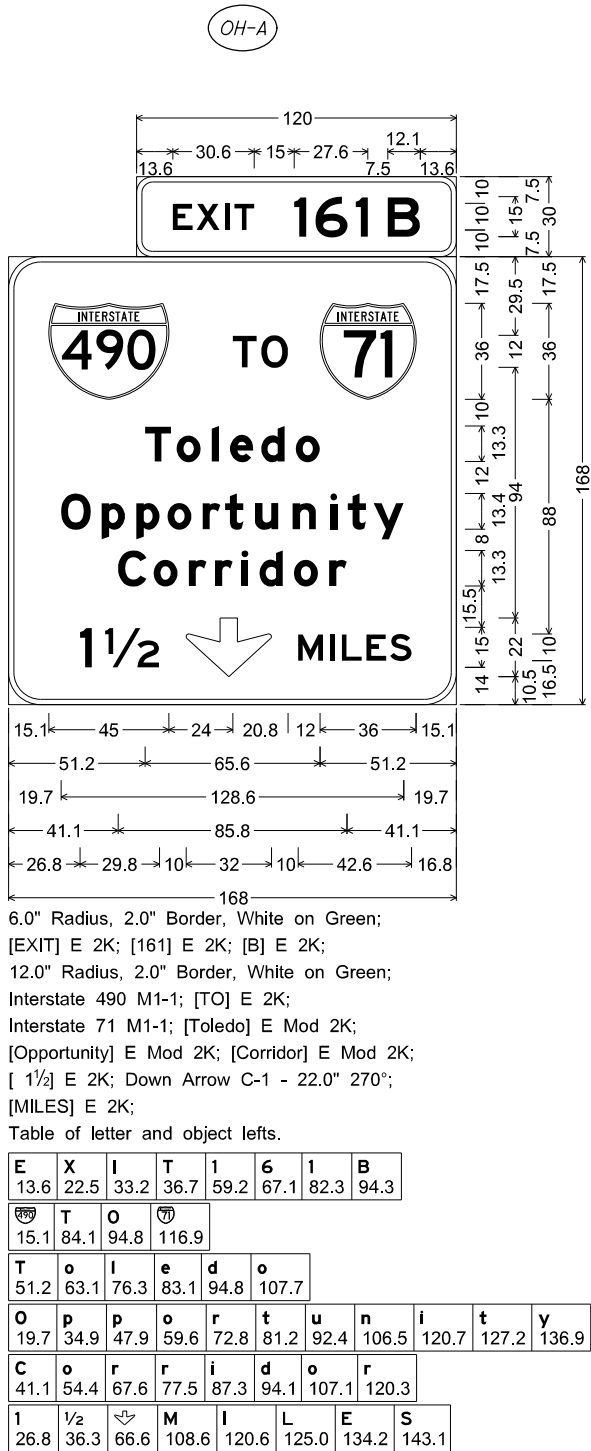


ORANGE AVE EASTBOUND, OH-AR
EXISTING OVERHEAD SIGN SUPPORT

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| 0 | 2019-08-02 | RFC |
| NO. | DATE | DESCRIPTION |
| ISSUE RECORD | | |

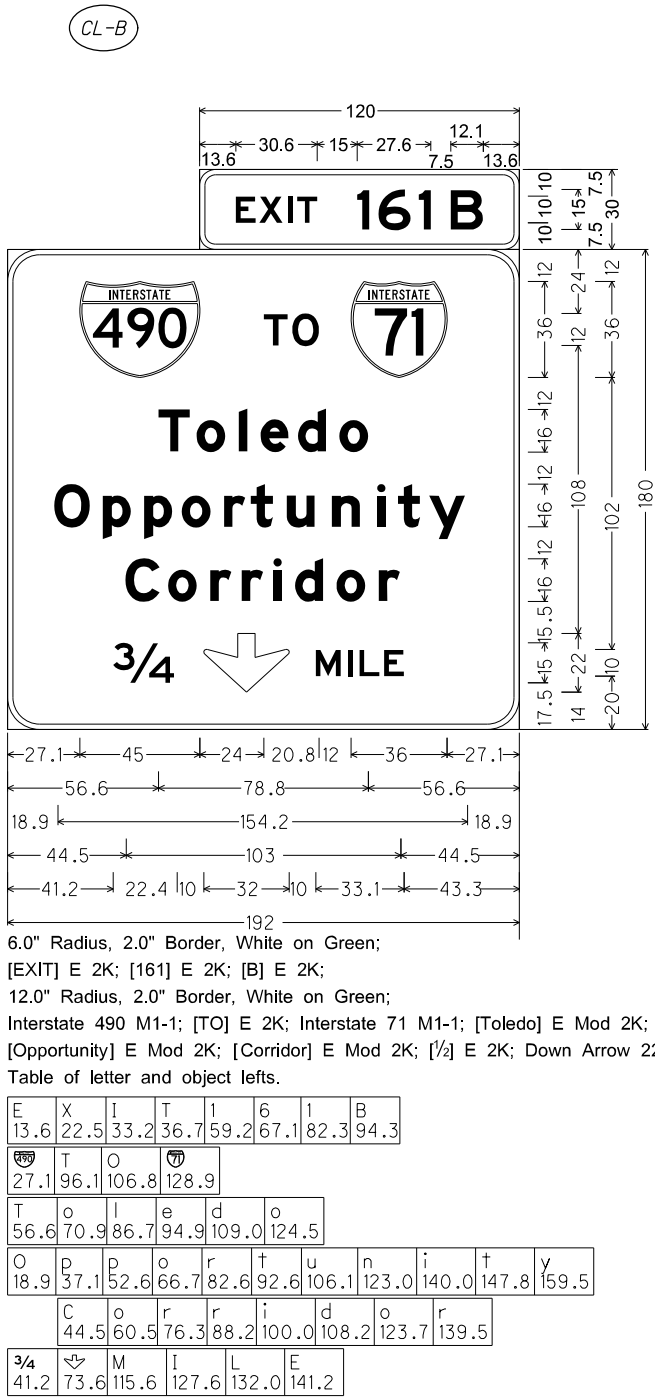
SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DESTINATION LEGEND: LEVEL 2
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

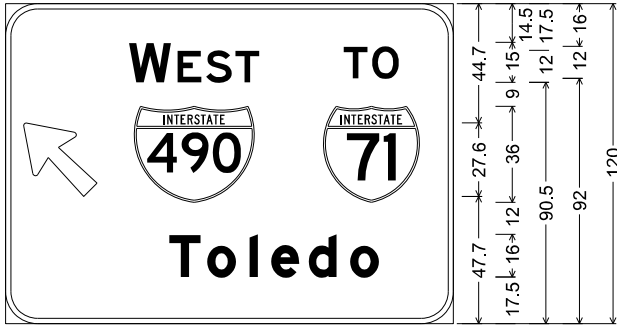


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SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSTONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

OH-F1



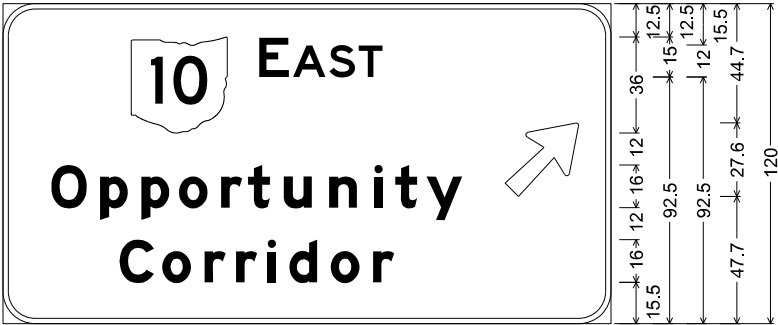
12.0" Radius, 2.0" Border, White on Green;
Arrow A-1 - 35.0" 135°; [WEST] E 2K;
[TO] E 2K; Interstate 490 M1-1;
Interstate 71 M1-1; [Toledo] E Mod 2K;
Table of letter and object lefts.

| | | | | | | |
|---|---|------|------|-------|-------|-------|
|  | W | E | S | T | T | O |
| 6.8 | 46.3 | 64.5 | 75.2 | 86.2 | 126.8 | 137.5 |
|  |  | | | | | |
| 48.3 | 119.2 | | | | | |
| T | o | I | e | d | o | |
| 61.4 | 75.6 | 91.5 | 99.6 | 113.7 | 129.2 | |


SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

OH-F2



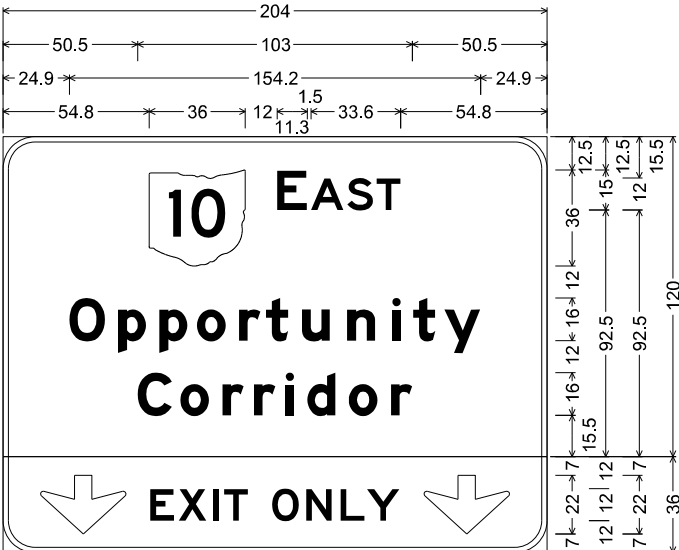
12.0" Radius, 2.0" Border, White on Green;
State Highway 10 M1-H5-36-2; [EAST] E 2K;
[Opportunity] E Mod 2K; [Corridor] E Mod 2K;
Arrow A-1 - 35.0" 45°;
Table of letter and object lefts.

| | | | | | | | | | | |
|-----------|----------|----------|----------|----------|---|----------|----------|----------|----------|----------|
| 10 | E | A | S | T |  | | | | | |
| 48.1 | 96.1 | 108.8 | 122.4 | 133.4 | 188.4 | | | | | |
| O | p | p | o | r | t | u | n | i | t | y |
| 18.1 | 36.4 | 51.9 | 66.0 | 81.8 | 91.9 | 105.3 | 122.3 | 139.2 | 147.1 | 158.8 |
| C | o | r | r | i | d | o | r | | | |
| 43.7 | 59.7 | 75.6 | 87.4 | 99.2 | 107.4 | 122.9 | 138.8 | | | |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

OH-G



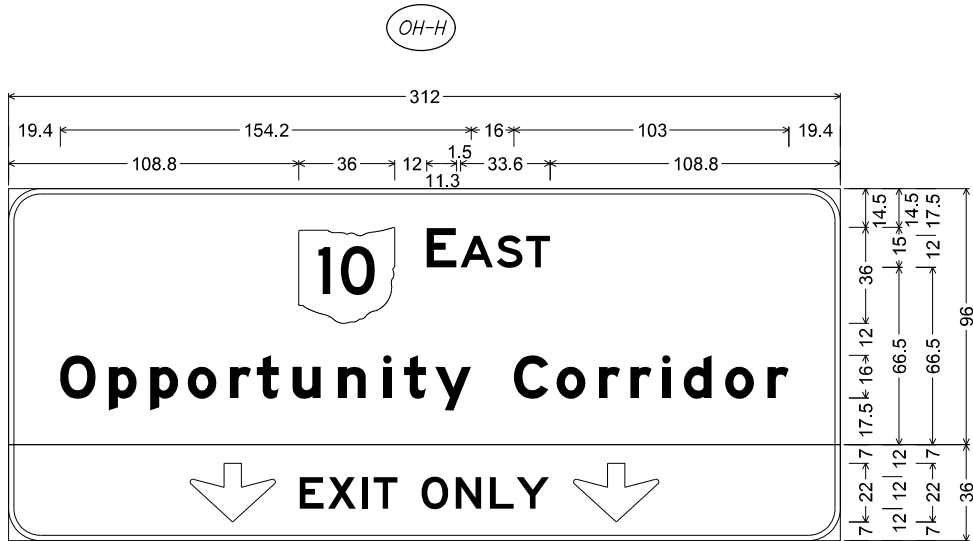
12.0" Radius, 2.0" Border, White on Green;
State Highway 10 M1-H5-36-2; [EAST] E 2K;
[Opportunity] E Mod 2K; [Corridor] E Mod 2K;
12.0" Radius, 2.0" Border, Black on Yellow;
Down Arrow C-1 - 22.0" 270°; [EXIT] E 2K; [ONLY] E 2K;
Down Arrow C-1 - 22.0" 270°;
Table of letter and object lefts.

| 🛣 | E | A | S | T | | | | | | | | |
|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|
| 54.8 | 102.8 | 115.6 | 129.1 | 140.2 | | | | | | | | |
| O | p | p | o | r | t | u | n | i | t | y | | |
| 24.9 | 43.1 | 58.6 | 72.7 | 88.6 | 98.6 | 112.1 | 129.0 | 146.0 | 153.8 | 165.5 | | |
| C | o | r | r | i | d | o | r | | | | | |
| 50.5 | 66.5 | 82.3 | 94.2 | 106.0 | 114.2 | 129.7 | 145.5 | | | | | |
| ↕ | E | X | I | T | O | N | L | Y | ↕ | | | |
| 14.1 | 55.2 | 65.9 | 78.7 | 82.9 | 100.9 | 113.8 | 126.6 | 136.6 | 157.9 | | | |

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SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

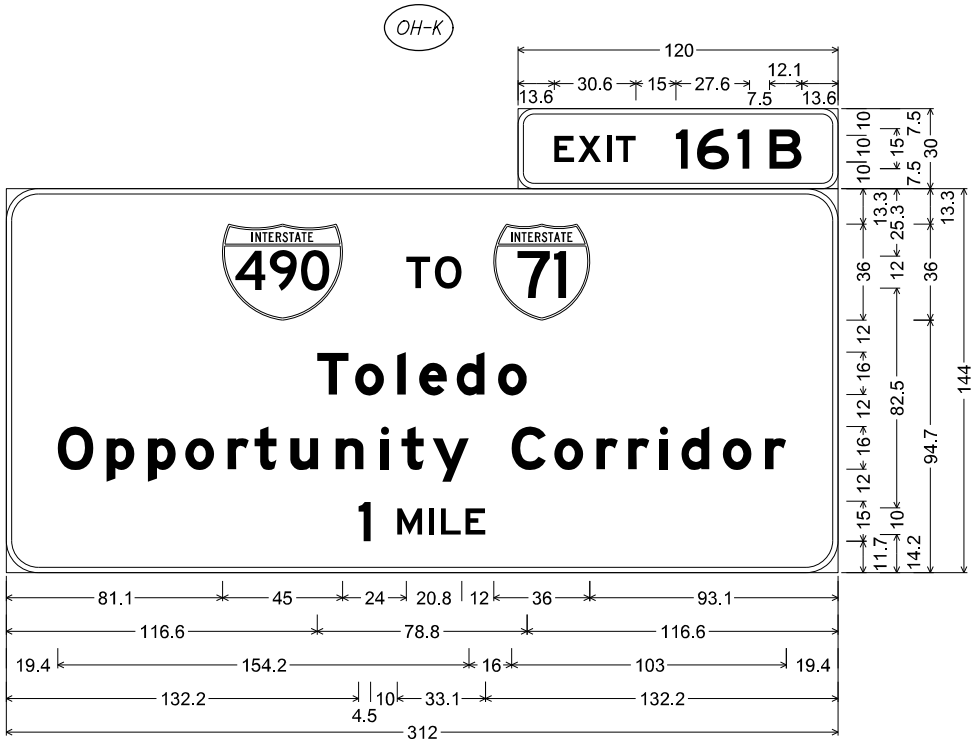


12.0" Radius, 2.0" Border, White on Green;
State Highway 10 M1-H5-36-2; [EAST] E 2K; [Opportunity Corridor] E Mod 2K;
12.0" Radius, 2.0" Border, Black on Yellow;
Down Arrow C-1 - 22.0" 270°; [EXIT] E 2K; [ONLY] E 2K; Down Arrow C-1 - 22.0" 270°;
Table of letter and object lefts.

| | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--|--|--|--|
| 10 | E | A | S | T | | | | | | | | | | |
| 108.8 | 156.8 | 169.6 | 183.1 | 194.2 | | | | | | | | | | |
| O | p | p | o | r | t | u | n | i | t | y | | | | |
| 19.4 | 37.6 | 53.1 | 67.2 | 83.0 | 93.1 | 106.6 | 123.5 | 140.5 | 148.3 | 160.0 | | | | |
| C | | o | r | r | i | d | o | r | | | | | | |
| 189.6 | | 205.6 | 221.4 | 233.3 | 245.1 | 253.3 | 268.8 | 284.6 | | | | | | |
| ⬇ | E | X | I | T | O | N | L | Y | ⬇ | | | | | |
| 68.1 | 109.2 | 119.9 | 132.7 | 136.9 | 154.9 | 167.8 | 180.6 | 190.6 | 211.9 | | | | | |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



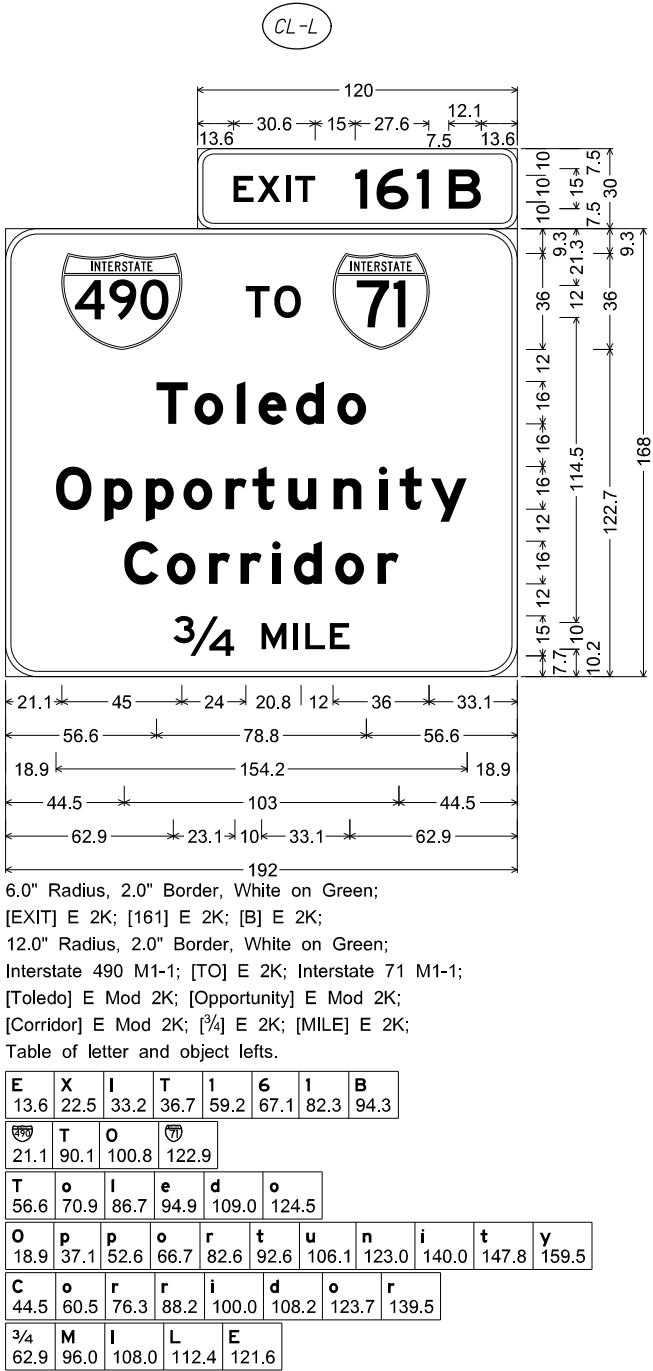
6.0" Radius, 2.0" Border, White on Green;
[EXIT] E 2K; [161] E 2K; [B] E 2K;
12.0" Radius, 2.0" Border, White on Green;
Interstate 490 M1-1; [TO] E 2K; Interstate 71 M1-1; [Toledo] E Mod 2K;
[Opportunity Corridor] E Mod 2K; [1] E 2K; [MILE] E 2K;
Table of letter and object lefts.

| | | | | | | | | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|---|--|--|--|--|--|--|--|
| E | X | I | T | 1 | 6 | 1 | B | | | | | | | | | | |
| 13.6 | 22.5 | 33.2 | 36.7 | 59.2 | 67.1 | 82.3 | 94.3 | | | | | | | | | | |
| ४९० | T | O | ७१ | | | | | | | | | | | | | | |
| 81.1 | 150.1 | 160.8 | 182.9 | | | | | | | | | | | | | | |
| T | o | I | e | d | o | | | | | | | | | | | | |
| 116.6 | 130.9 | 146.7 | 154.9 | 169.0 | 184.5 | | | | | | | | | | | | |
| O | p | 53.1 | o | r | t | u | n | i | t | y | | | | | | | |
| 19.4 | 37.6 | 67.2 | 83.0 | 93.1 | 106.6 | 123.5 | 140.5 | 148.3 | 160.0 | | | | | | | | |
| | C | o | r | r | i | d | o | r | | | | | | | | | |
| | 189.6 | 205.6 | 221.4 | 233.3 | 245.1 | 253.3 | 268.8 | 284.6 | | | | | | | | | |
| 1 | M | I | L | E | | | | | | | | | | | | | |
| 132.2 | 146.7 | 158.7 | 163.1 | 172.3 | | | | | | | | | | | | | |

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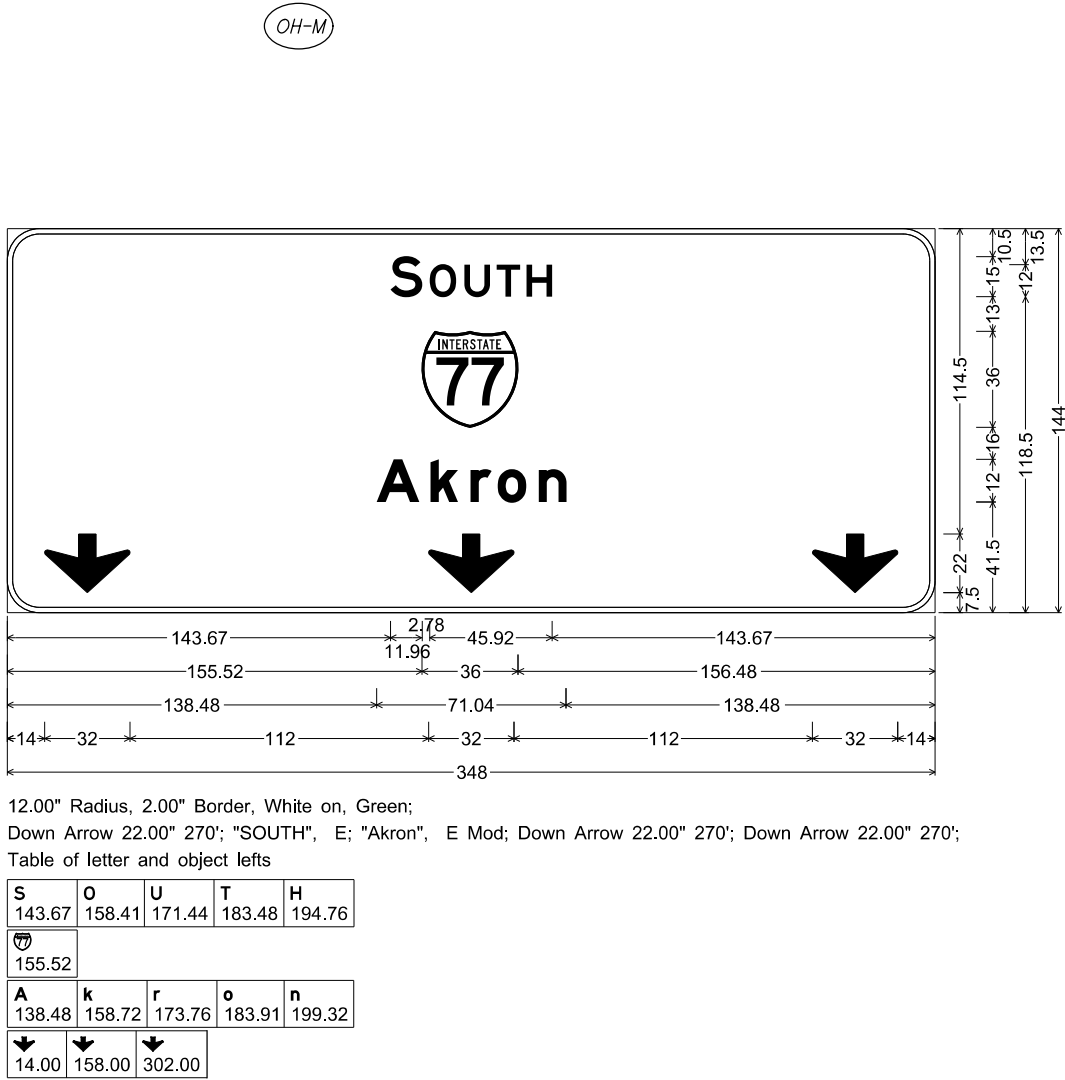
SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



SIGN DETAIL

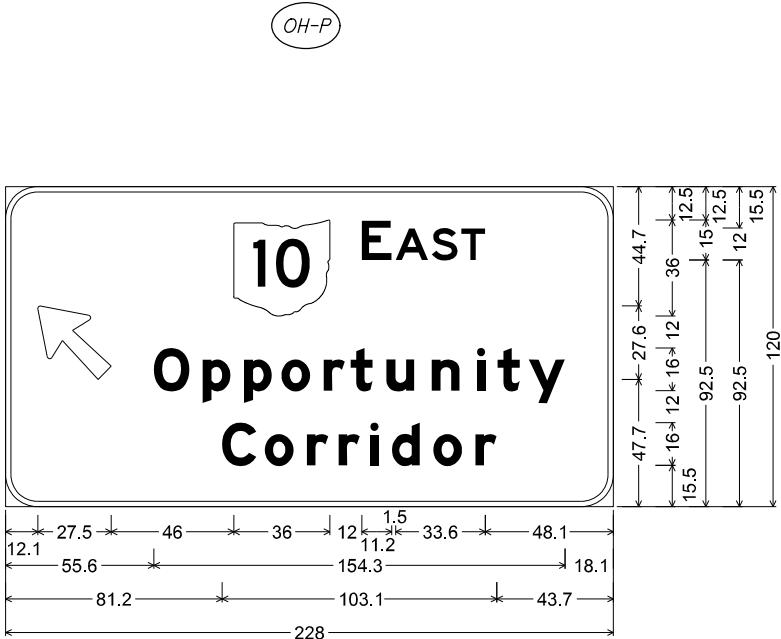
PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



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SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



12.0" Radius, 2.0" Border, White on Green;
Arrow A-1 - 35.0" 135°; State Highway 10 M1-H5-36-2;
[EAST] E 2K; [Opportunity] E Mod 2K; [Corridor] E Mod 2K;
Table of letter and object lefts.

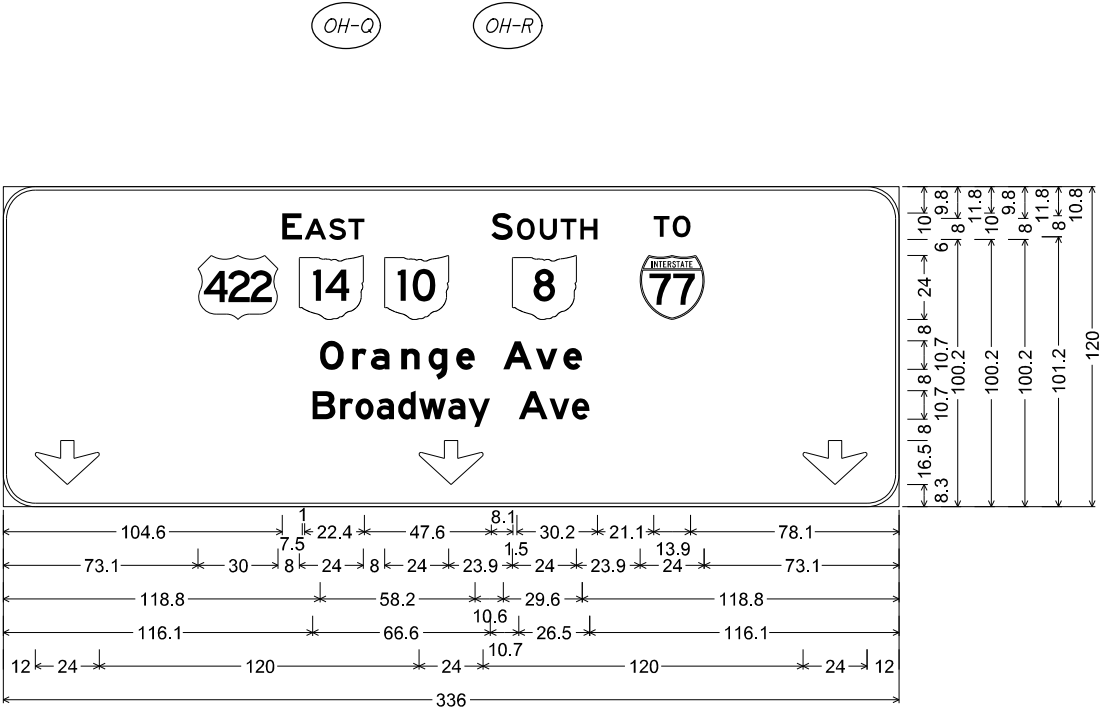
| | | | | | |
|------|------|-------|-------|-------|-------|
| | | E | A | S | T |
| 12.1 | 85.6 | 133.6 | 146.3 | 159.9 | 170.9 |

| | | | | | | | | | | |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|
| O | p | p | o | r | t | u | n | i | t | y |
| 55.6 | 73.9 | 89.4 | 103.5 | 119.3 | 129.4 | 142.8 | 159.8 | 176.8 | 184.6 | 196.3 |

| | | | | | | | |
|------|------|-------|-------|-------|-------|-------|-------|
| C | o | r | r | i | d | o | r |
| 81.2 | 97.2 | 113.1 | 124.9 | 136.8 | 144.9 | 160.4 | 176.3 |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



12.0" Radius, 1.3" Border, White on Green;
[EAST] E 2K; [SOUTH] E 2K; [TO] E 2K; US 422 M1-4; State Highway 14 M1-H5-24-2;
State Highway 10 M1-H5-24-2; State Highway 8 M1-H5-24-2; Interstate 77 M1-1;
[Orange Ave] E Mod 2K; [Broadway Ave] E 2K; Down Arrow C-2 & C-3 - 16.0" 270°;
Down Arrow C-2 & C-3 - 16.0" 270°; Down Arrow C-2 & C-3 - 16.0" 270°;
Table of letter and object lefts.

| | | | | | | | | | | |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| E | A | S | T | S | O | U | T | H | T | O |
| 104.6 | 113.1 | 122.2 | 129.5 | 183.1 | 192.7 | 201.3 | 209.1 | 216.5 | 244.0 | 251.1 |

| | | | | |
|------|-------|-------|-------|-------|
| | | | | |
| 73.1 | 111.1 | 143.1 | 191.0 | 238.9 |

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|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| O | r | a | n | g | e | A | v | e |
| 118.8 | 131.0 | 137.9 | 149.2 | 159.6 | 169.9 | 187.6 | 199.8 | 210.1 |

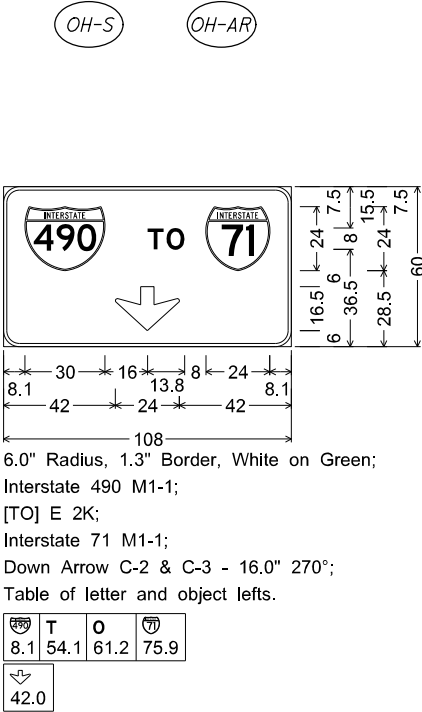
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|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| B | r | o | a | d | w | a | y | A | v | e |
| 116.1 | 126.4 | 132.2 | 140.2 | 148.2 | 155.9 | 166.9 | 174.5 | 193.4 | 204.9 | 213.3 |

| | | |
|------|-------|-------|
| | | |
| 12.0 | 156.0 | 300.0 |

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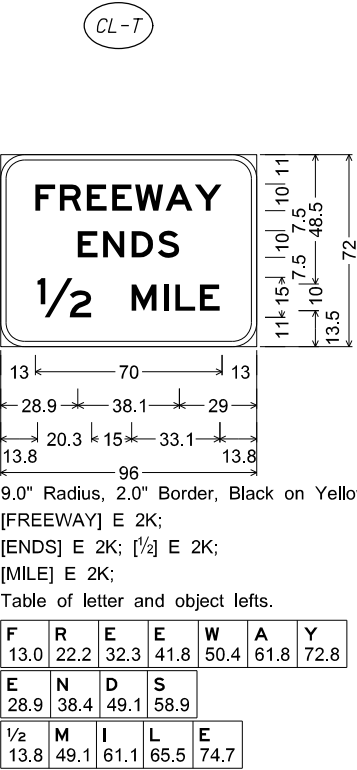
SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



SIGN DETAIL

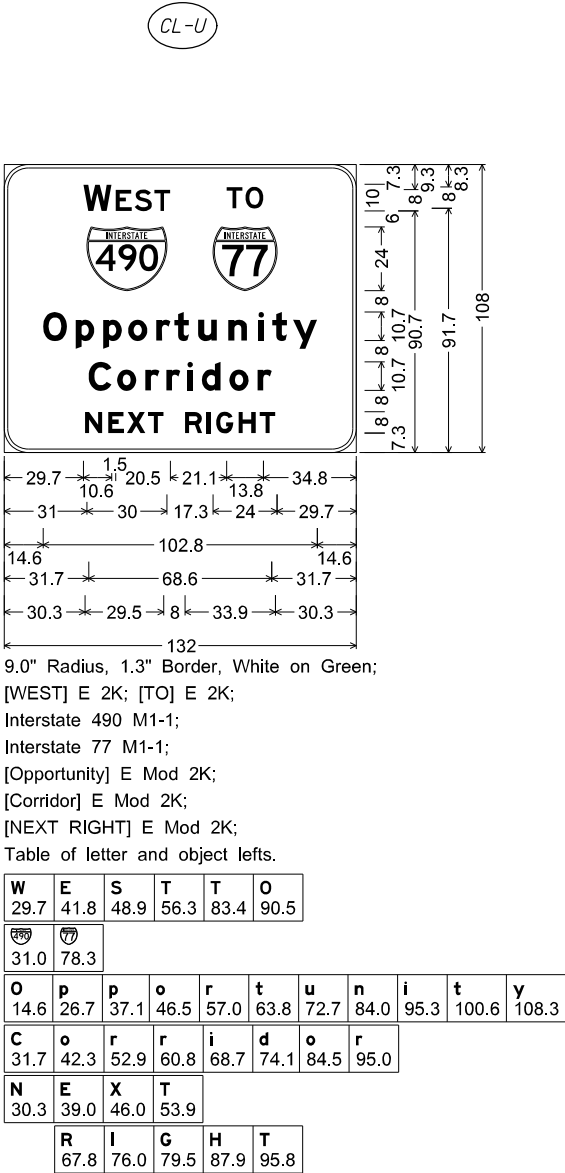
PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



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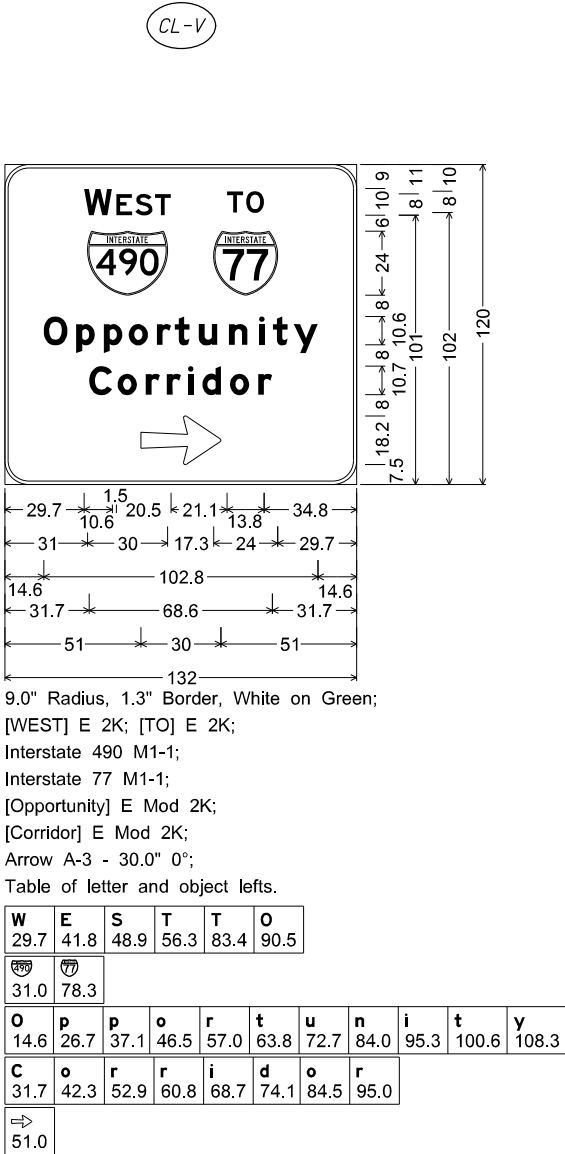
SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



SIGN DETAIL

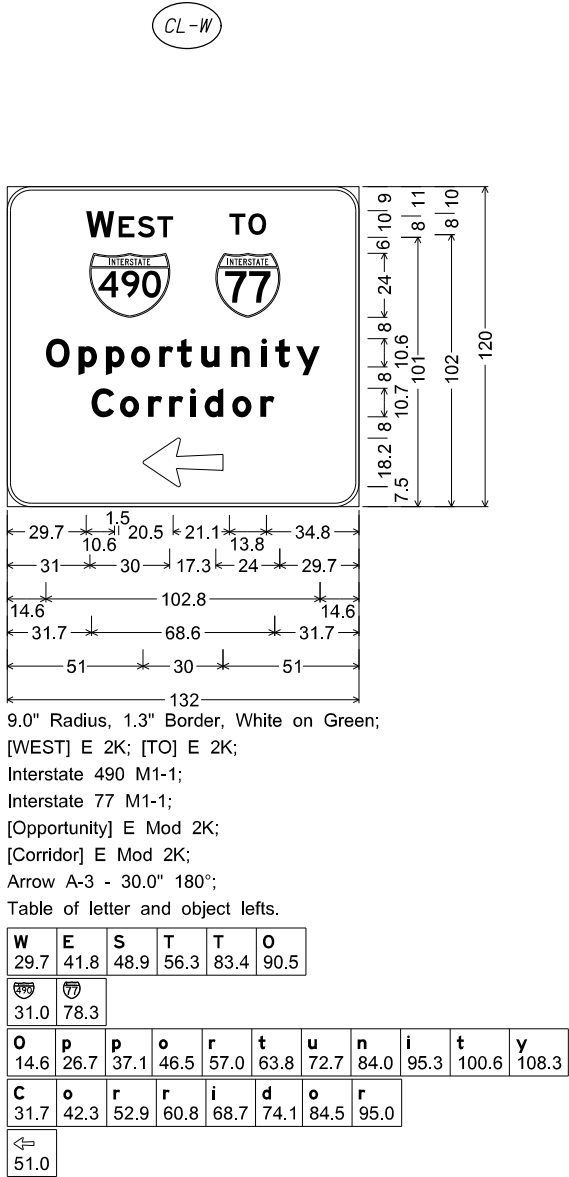
PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



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| ISSUE RECORD | | |

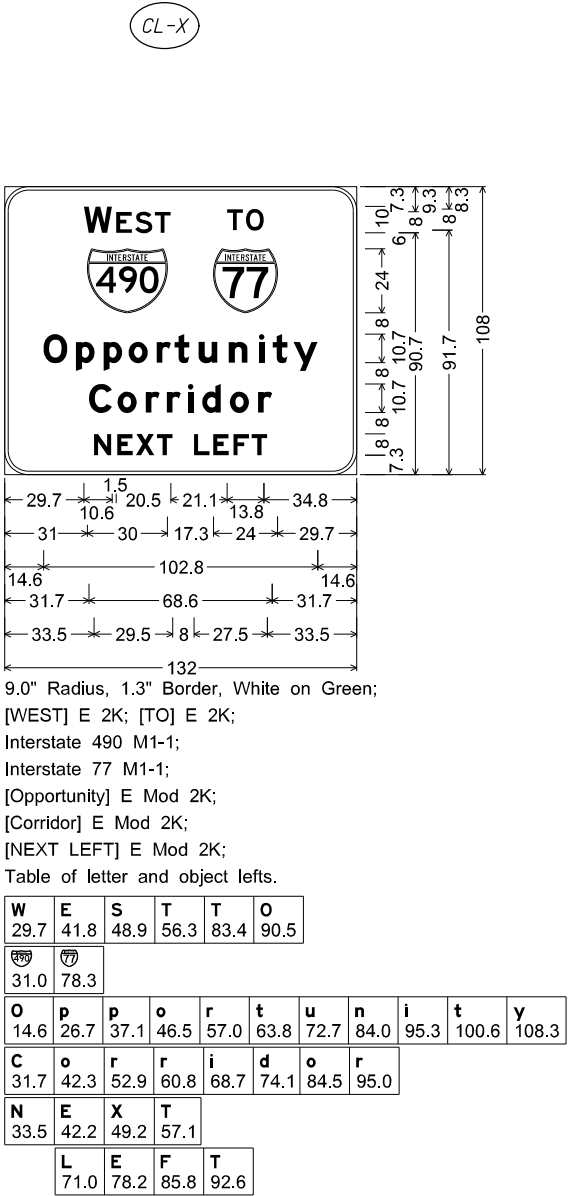
SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER



SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

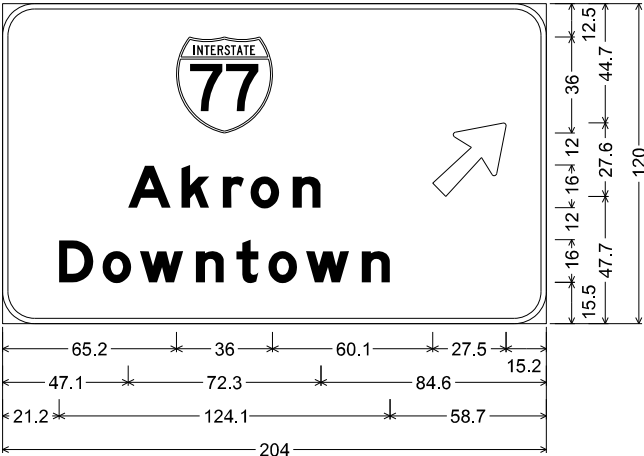


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| ISSUE RECORD | | |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

CL-Y



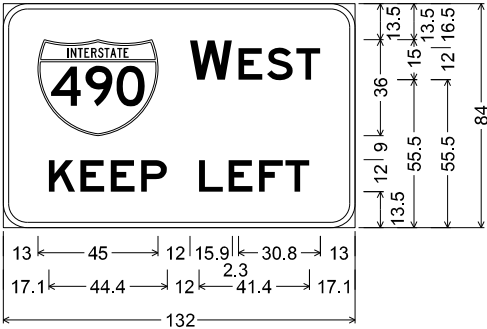
12.0" Radius, 2.0" Border, White on Green;
Interstate 77 M1-1; [Akron] E Mod 2K;
[Downtown] E Mod 2K; Arrow A-1 - 35.0" 45°;
Table of letter and object lefts.

| | | | | | | | |
|------|-------|------|------|-------|------|-------|-------|
| | | | | | | | |
| 65.2 | 161.3 | | | | | | |
| A | k | r | o | n | | | |
| 47.1 | 67.1 | 82.6 | 93.0 | 108.8 | | | |
| D | o | w | n | t | o | w | n |
| 21.2 | 37.5 | 51.6 | 72.5 | 87.7 | 99.7 | 113.8 | 134.8 |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

GM-Z



9.0" Radius, 2.0" Border, White on Green;
Interstate 490 M1-1; [WEST] E 2K;
[KEEP LEFT] E 2K;
Table of letter and object lefts.

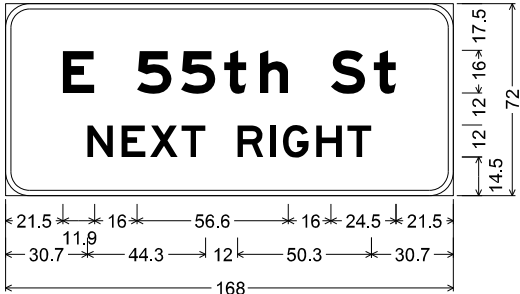
| | | | | |
|------|------|------|-------|-------|
| | W | E | S | T |
| 13.0 | 70.0 | 88.2 | 98.9 | 110.0 |
| K | E | E | P | |
| 17.1 | 29.0 | 40.4 | 51.8 | |
| L | E | F | T | |
| 73.5 | 84.5 | 95.9 | 105.9 | |

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SIGN DETAIL

PANEL STYLE: ODOT LEVEL 1 (REFLECTIVE)
DIMENSTIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

GM-J



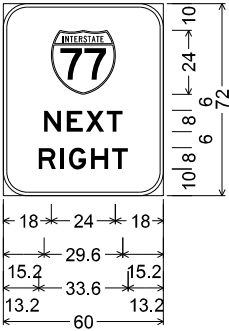
9.0" Radius, 2.0" Border, White on Green;
[E 55th St] E Mod 2K; [NEXT RIGHT] E 2K;
Table of letter and object lefts.

| | | | | | | |
|------|------|-------|-------|-------|-------|-------|
| E | S | S | t | h | S | t |
| 21.5 | 49.4 | 65.8 | 82.0 | 95.4 | 122.0 | 138.2 |
| N | E | X | T | | | |
| 30.7 | 43.6 | 54.2 | 66.0 | | | |
| R | I | G | H | T | | |
| 87.0 | 99.1 | 104.0 | 116.5 | 128.3 | | |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

GM-AQ



9.0" Radius, 1.3" Border, White on Green;
Interstate 77 M1-1;
[NEXT] E 2K;
[RIGHT] E 2K;
Table of letter and object lefts.

| | | | | |
|------|------|------|------|------|
| 18.0 | | | | |
| N | E | X | T | |
| 15.2 | 23.8 | 30.9 | 38.8 | |
| R | I | G | H | T |
| 13.2 | 21.3 | 24.6 | 32.9 | 40.8 |

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

GM-AS



6.0" Radius, 1.3" Border, White on Green;
[E 55th St] E Mod 2K;
[KEEP LEFT] E 2K;
Table of letter and object lefts.

| | | | | |
|------|------|------|------|------|
| E | S | S | t | h |
| 12.3 | 30.9 | 41.9 | 52.7 | 61.6 |
| S | t | | | |
| 79.3 | 90.1 | | | |

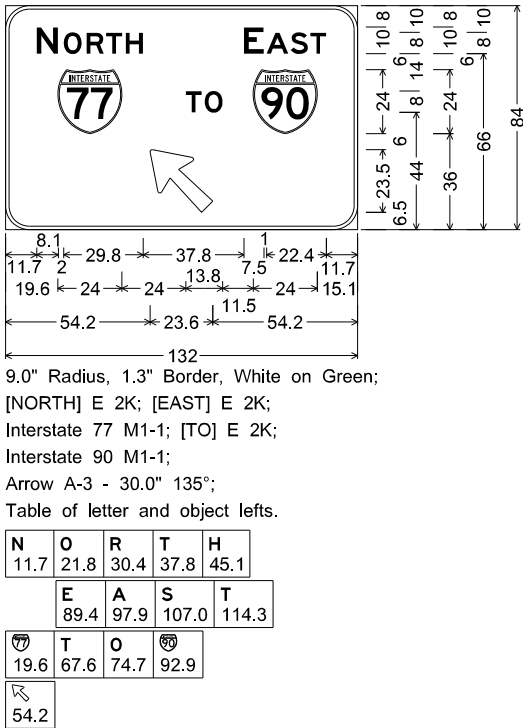
| | | | | | | | |
|------|------|------|------|------|------|------|------|
| N | E | X | T | L | E | F | T |
| 21.4 | 30.0 | 37.1 | 45.0 | 59.0 | 66.3 | 73.9 | 80.6 |

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SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

OH-AE1

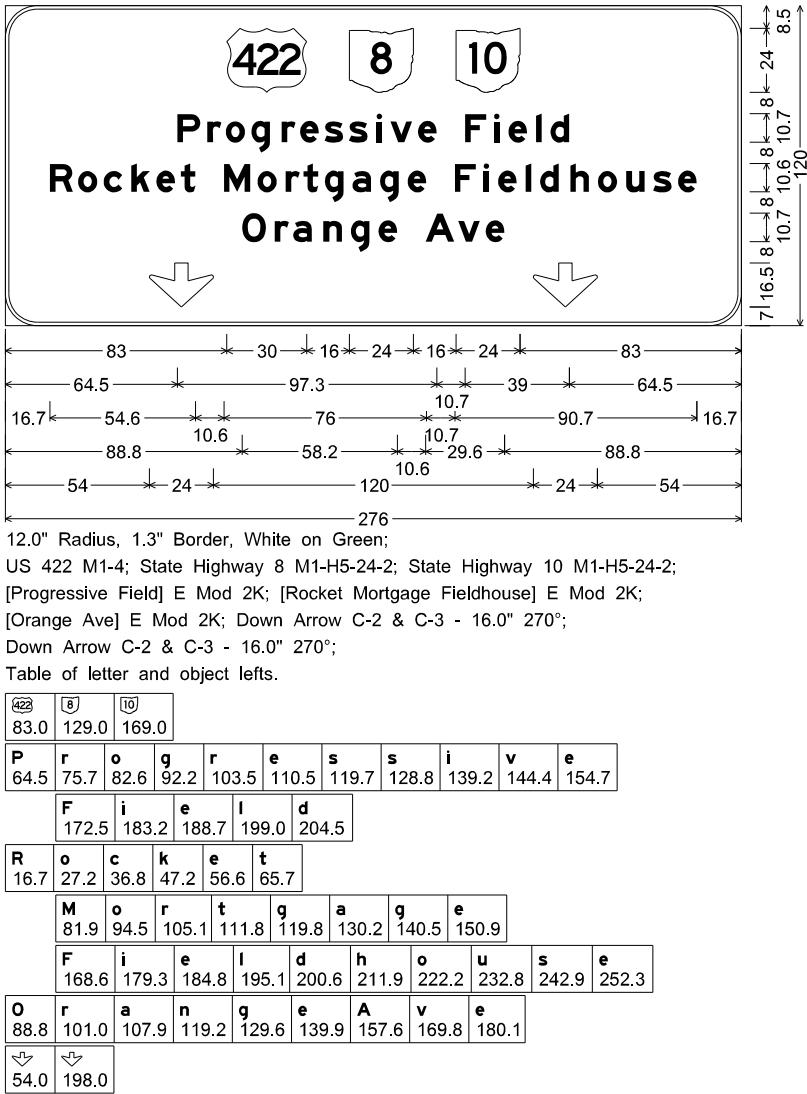


9.0" Radius, 1.3" Border, White on Green;
[NORTH] E 2K; [EAST] E 2K;
Interstate 77 M1-1; [TO] E 2K;
Interstate 90 M1-1;
Arrow A-3 - 30.0" 135°;
Table of letter and object lefts.

SIGN DETAIL

PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

OH-AE2



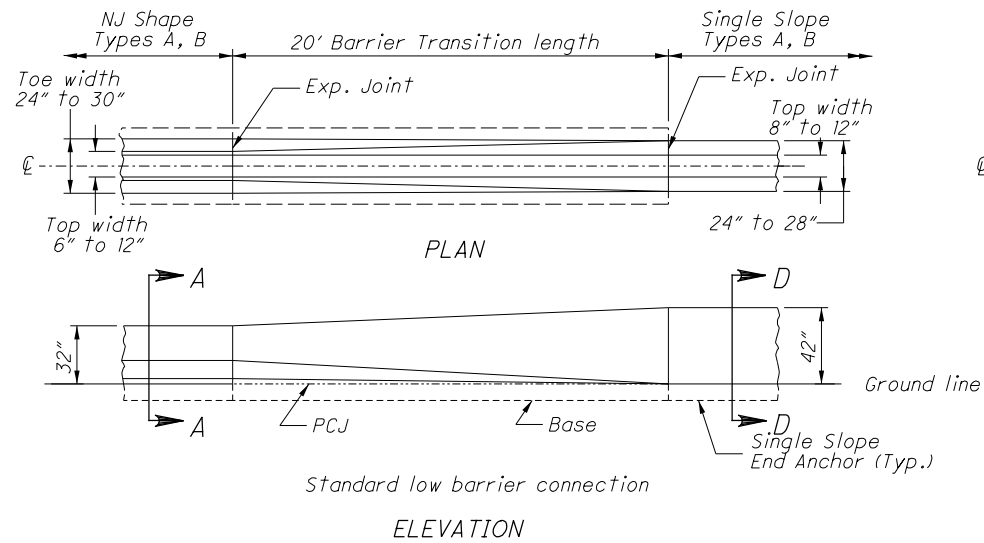
12.0" Radius, 1.3" Border, White on Green;
US 422 M1-4; State Highway 8 M1-H5-24-2; State Highway 10 M1-H5-24-2;
[Progressive Field] E Mod 2K; [Rocket Mortgage Fieldhouse] E Mod 2K;
[Orange Ave] E Mod 2K; Down Arrow C-2 & C-3 - 16.0" 270°;
Down Arrow C-2 & C-3 - 16.0" 270°;
Table of letter and object lefts.

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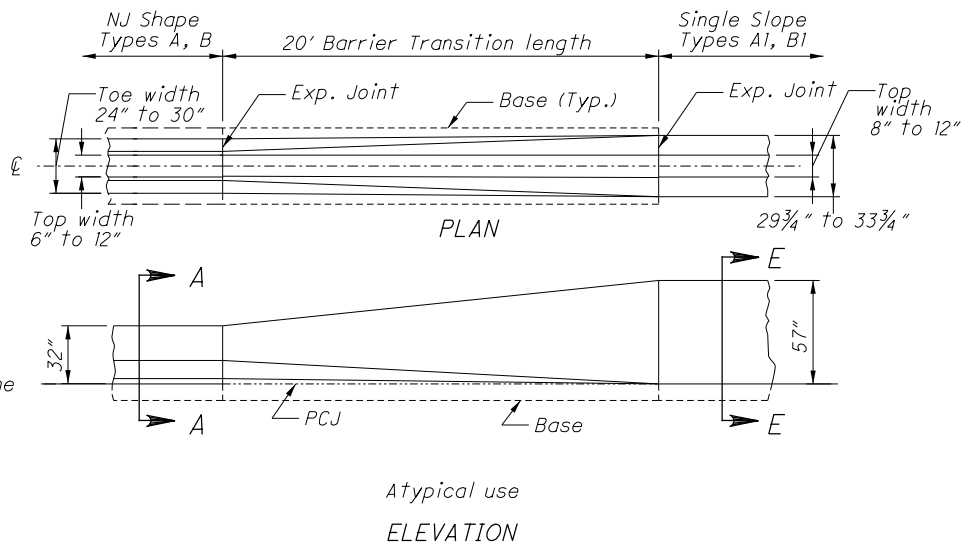
PANEL STYLE: ODOT LEVEL 3 (REFLECTIVE)
DIMENSIONS ARE IN INCHES
LETTER LOCATIONS ARE PANEL EDGE TO LOWER LEFT CORNER

| | | | | | |
|--------------|------------|-------------|----------|----------|----------|
| (422) | (8) | (10) | | | |
| 11.0 | 57.0 | 97.0 | | | |
| O | r | a | n | g | e |
| 16.8 | 29.0 | 35.9 | 47.2 | 57.6 | 67.9 |
| | A | v | e | | |
| | 85.6 | 97.8 | 108.1 | | |

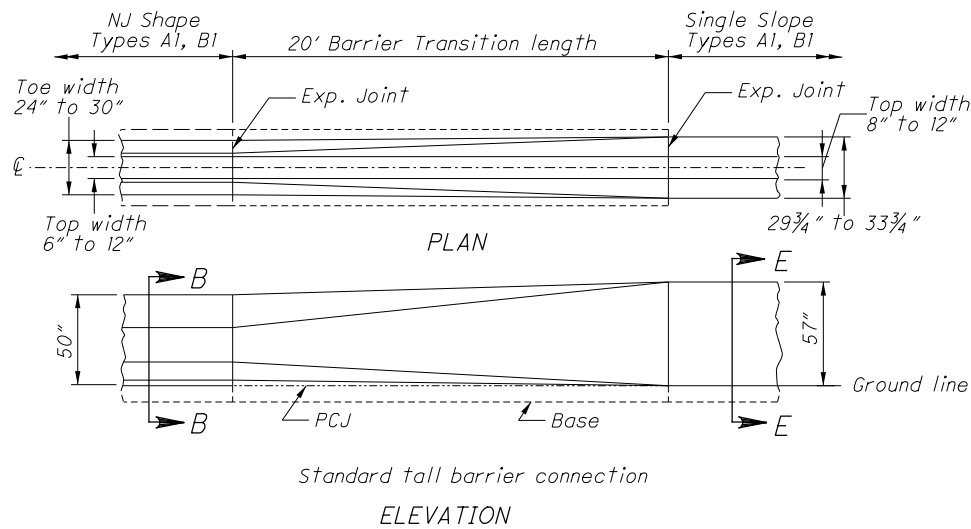
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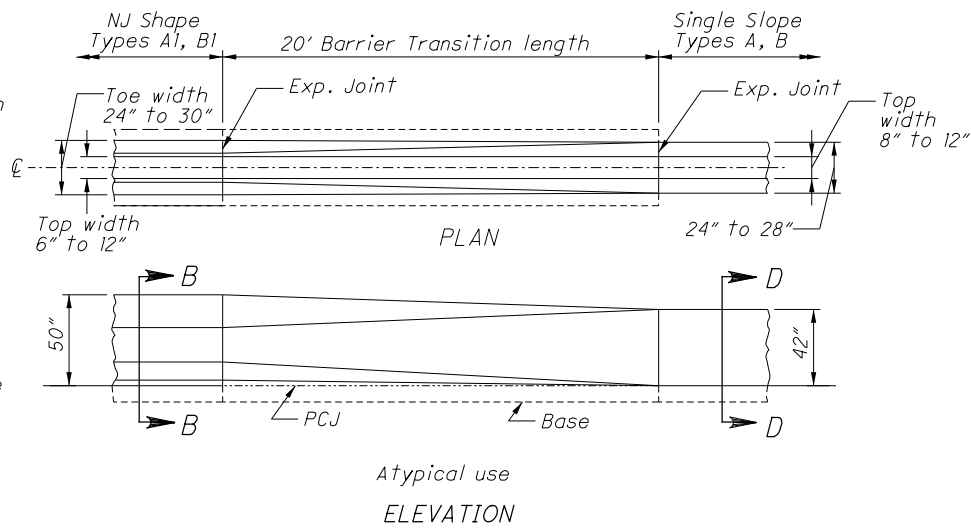
Standard low barrier connection
ELEVATION



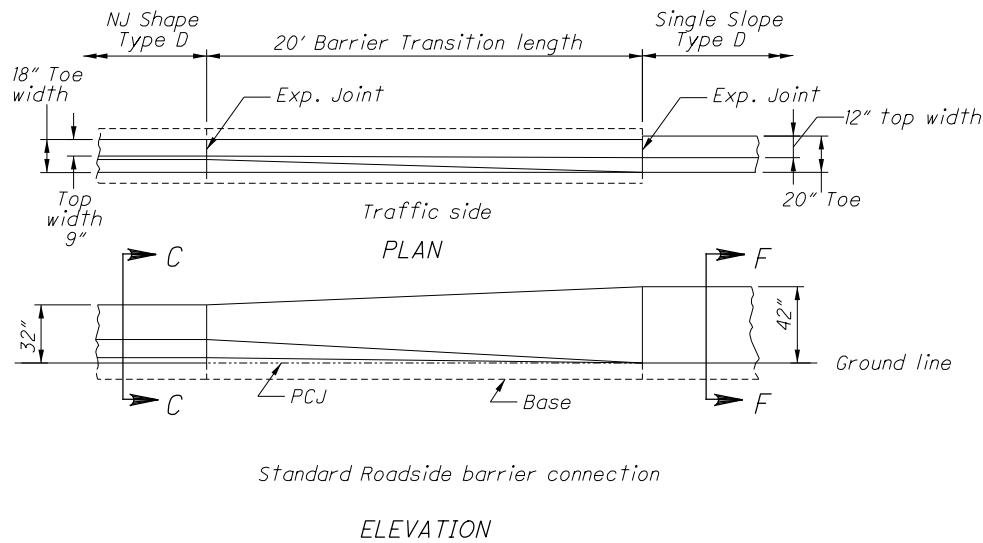
Atypical use
ELEVATION



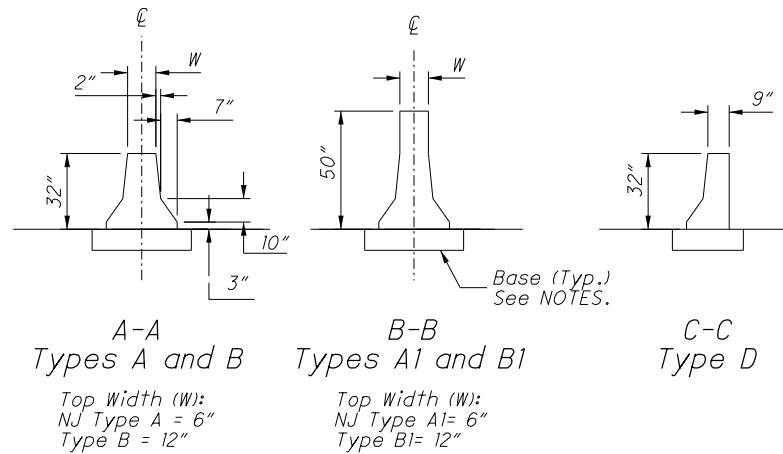
Standard tall barrier connection
ELEVATION



Atypical use
ELEVATION



Standard Roadside barrier connection
ELEVATION



A-A
Types A and B

B-B
Types A1 and B1

C-C
Type D

NJ SHAPE SECTIONS
See Plan Insert sheets for specific
NJ Shape Concrete barrier details.

NOTES

GENERAL: This insert details the Barrier Transition, to connect existing NJ Concrete Barrier (safety shape) to a new run of Single Slope Concrete Barrier at locations shown on the plans. For NJ barrier shape and other details see the respective plan insert sheets. For Single Slope barrier details, see SCD RM-4.3 (RM-4.5 for Type D).

ADJACENT CONCRETE BARRIER RUNS: Remove any tapered end sections, Impact attenuators, or other guardrail hardware from existing barrier end. The barrier to barrier transition is not intended to be used at transition sections (those shown on SCD RM-4.4), Inlets, or on Type C or CI Barrier. If proposed adjacent single slope barrier is Type A or A1, the Barrier Transition should contain horizontal reinforcing steel similar to that required in the respective single slope barrier. Reinforcement is not shown and should be detailed separately. The adjacent single slope end should be terminated with a reinforced End Anchor as detailed on the SCDs.

BARRIER FACE TRANSITION: To prevent vehicle snagging, a smooth transition from the safety shape face to the single slope face is made over a 20' length. The actual shape of the Transition is dependent on both the adjacent NJ barrier and the single slope barrier Types, as detailed on the plans. The contractor and Engineer will agree on a construction method to ensure a smooth barrier face.

MATERIALS: Materials are same for those shown on RM-4.3 and RM-4.5, except that cast-in-place is the only acceptable method. Edges may be chamfered or radiused as shown on those drawings.

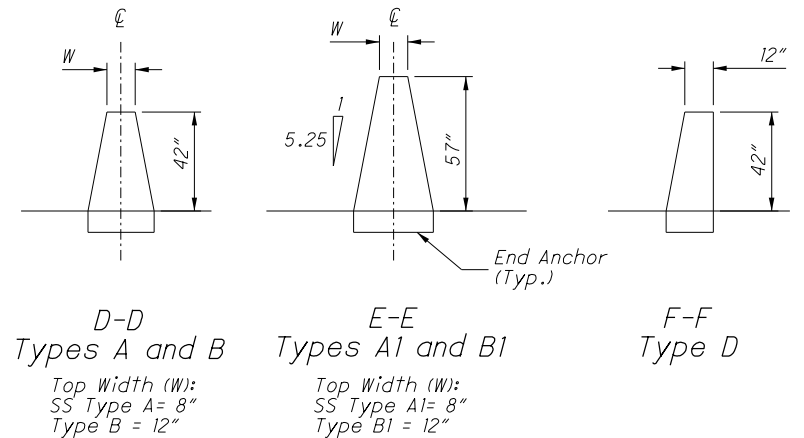
CONCRETE BASE: Construct base as shown on the NJ shape insert sheets, including the methods detailing the footing joint, Permissible Construction Joint (PCJ), and Dowelling requirements. The width of the base matches the existing NJ barrier.

JOINTS: Construct joints as shown on respective barrier drawings.

RACEWAYS: When specified, place raceway(s) to match raceway elevation in adjoining segments. Place to obtain maximum concrete cover.

METRIC UNITS: Refer to respective barrier drawings or inserts for metric dimensions.

PAYMENT: This Barrier Transition shall include all material and labor needed to construct this 20' section, including any raceways, reinforcing steel, dowels and other necessary incidentals. Payment shall be made at the unit price for Item 622 - Barrier Transition, Each.



D-D
Types A and B

E-E
Types A1 and B1

F-F
Type D

SINGLE SLOPE SECTIONS

See SCD RM-4.3 and RM-4.5 for specific
Single Slope concrete barrier details.

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