MINNESOTA DEPARTMENT OF TRANSPORTATION

CITY OF EDINA

EDINA BIKE BLVD – PHASE 1

95% PLAN SUBMITTAL

FED. PROJ. NO. NMTP 2012 (079)

CONSTRUCTION PLAN FOR: BIKE LANE IMPROVEMENTS, SIGNALS, SIGNING AND PAVEMENT MARKING

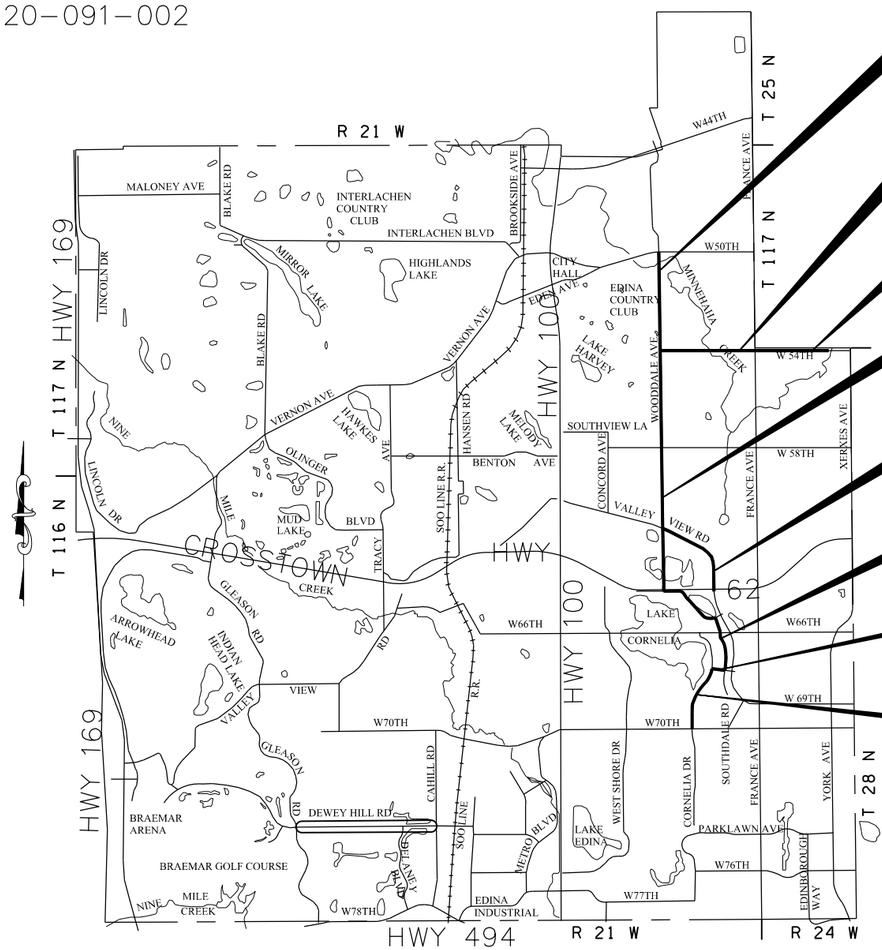
LOCATED ON: WOODDALE AVE S BETWEEN W 50TH ST AND TH 62
W 54TH ST BETWEEN WOODDALE AVE S AND ZENITH AVE S
VALLEY VIEW RD BETWEEN WOODDALE AVE S AND W 64TH ST
SOUTHDALE RD BETWEEN TH 62 AND W 68TH ST
CORNELIA DR BETWEEN W 68TH ST AND W 70TH ST

STATE PROJ. NO. 120-091-002

- CB CATCH BASIN
- BEE HIVE CATCH BASIN
- STORM MH, DRAINAGE
- CO SUMP DRAIN CLEAN OUT
- SANITARY MH
- SCO SANITARY CLEAN OUT
- HYDRANT
- WATER VALVE
- WATER VALVE MH
- WSO STOP BOX
- PIV POST INDICATOR VALVE
- ELECTRIC MH
- UTILITY POLE
- LIGHT POLE
- UTILITY POLE W/LIGHT
- GUY WIRE
- GUY POLE
- GROUND LIGHT
- TRAFFIC SIGNAL
- HAND HOLE
- TELEPHONE PEDESTAL
- TELEPHONE MH
- TELEVISION PEDESTAL
- GAS VALVE
- MAIL BOX
- RETAINING WALL
- CHAIN LINK FENCE
- WOOD FENCE
- SILT FENCE
- SAWCUT
- STORM SEWER
- SUMP DRAIN
- I WATER LINE
- SANITARY SEWER
- G GAS LINE
- T TELEPHONE UG LINE
- P ELECTRIC UG LINE
- OH OVERHEAD

PROPOSED=BOLD\SOLID

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY



WOODDALE AVE
W 50TH ST TO VALLEY VIEW RD
(GROSS LENGTH=7660')
((ADT=3300-4500) (2009))

W 54TH ST
WOODDALE AVE TO FRANCE AVE
(GROSS LENGTH=2630')
(ADT=2600 (2011))

W 54TH ST
FRANCE AVE TO ZENITH AVE
(GROSS LENGTH=1970')
((ADT=800) (2011))

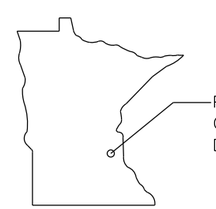
WOODDALE AVE
VALLEY VIEW RD TO HWY 62
(GROSS LENGTH=1670')
((ADT=<500) (2011))

VALLEY VIEW RD
WOODDALE AVE TO TH 62
(GROSS LENGTH=2470'X)
((ADT=6700) (2005))

SOUTHDALE RD
TH 62 TO W 68TH ST
(GROSS LENGTH=3220')
((ADT=<500) (2011))

W 68TH ST
SOUTHDALE RD TO CORNELIA DR
(GROSS LENGTH=350')
((ADT=<500) (2011))

CORNELIA DR
W 68TH ST TO W 70TH ST
(GROSS LENGTH=1840')
((ADT=<500) (2011))



PROJECT LOCATION
COUNTY: HENNEPIN
DIVISION: METRO

THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

SCALES (IN FEET)

INDEX MAP	1"=4000' (0 – 4000)
PLAN	1"=40' (0 – 40)
SIGNING AND MARKING PLAN	1"=80' (0 – 80)

GOVERNING SPECIFICATIONS

THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE SPECIFICATIONS FOR CONSTRUCTION BY THE CITY OF EDINA SHALL GOVERN THIS PROJECT

NOTE: ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS."

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1	TITLE SHEET
2	STATEMENT OF ESTIMATED QUANTITIES
3	TYPICAL SECTIONS AND TRAFFIC CIRCLE DETAIL
4	CONSTRUCTION NOTES
5-7	TRAFFIC CONTROL DETAILS
8-9	CONSTRUCTION PLAN
10	LANDSCAPE PLAN
11	TABULATIONS
12	DETAILS
13-14	PAVEMENT MARKING DETAILS
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41	SIGNAL DETAIL
42	INTERSECTION SIGNAL LAYOUT

THIS PLAN CONTAINS 42 SHEETS

APPROVED FOR FEDERAL AID FUNDING: STATE AID ENGINEER	DATE
STATE AID ENGINEER-REVIEWED FOR COMPLIANCE WITH FEDERAL AID RULES/POLICY:	DATE
APPROVED: CITY OF EDINA CITY ENGINEER	DATE
APPROVED: MINNEAPOLIS CITY ENGINEER OR DEPUTY CITY ENGINEER	DATE

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

MICHAEL R ANDERSON — 42828 LIC. NO. — 05/07/12 DATE

CITY OF EDINA CONTRACT NO. X

STATE PROJ. NO: 120-091-002

95% PLAN SUBMITTAL

BASIS OF ESTIMATED QUANTITIES	
ITEM	BASIS
BITUMINOUS MIXTURE	110 POUNDS / SQ YD / INCH OF MIX
BITUMINOUS TACK COAT	0.03 TO 0.05 GAL / SQ YD ON NEW PAVEMENTS
BITUMINOUS TACK COAT	0.07 TO 0.10 GAL / SQ YD ON CONCRETE PAVEMENT AND MILLED SURFACES

MNDOT STANDARD PLATES	
THESE STANDARD PLATES AS APPROVED BY THE FHWA SHALL APPLY	
PLATE NO.	DESCRIPTION
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)
8000I	STANDARD BARRICADES

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS
			REVISIONS

EDINA BIKE BLVD - PHASE 1

STATEMENT OF ESTIMATED QUANTITIES
BASIS OF ESTIMATED QUANTITIES
STANDARD PLATES

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 42828

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CHECKED: KAB
APPROVED: MRA
DATE: 05/07/12
IMP.# X3-XXX
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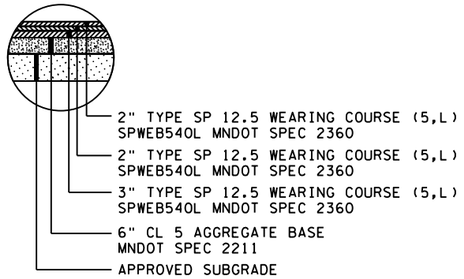
95% PLAN SUBMITTAL

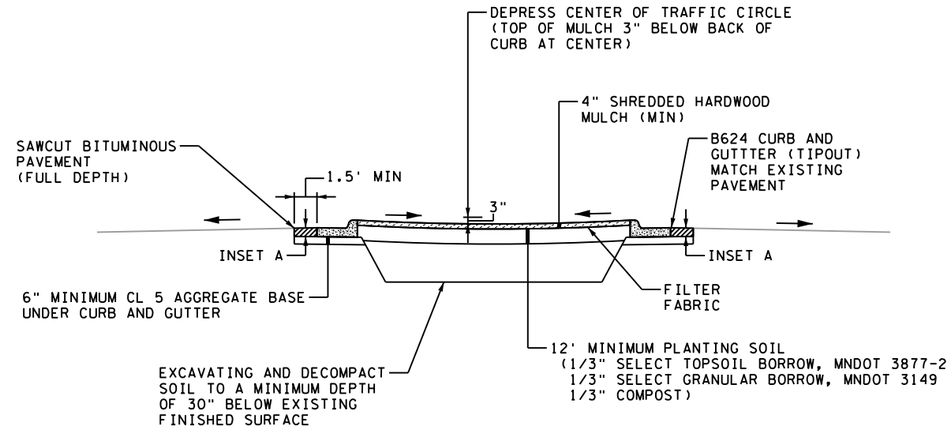
INSET A

W 54TH STREET AT DREW AVENUE
W 54TH STREE AT BEARD AVENUE



NOTES:

1. INSTALL BITUMINOUS TACK COAT BETWEEN ALL NEW BITUMINOUS LIFTS AND ADJACENT SURFACES.
2. PAVEMENT SECTION IS ASSUMED INPLACE PAVEMENT SECTON BASED ON THE BEST AVAILABLE INFORMATION. ACTUAL REPLACEMENT PAVEMENT SECTION SHALL BE AS SHOWN ABOVE OR MATCH THE INPLACE DEPTHS OF THE CORRESPONDING LAYERS, WHICHEVER IS GREATER.



TRAFFIC CIRCLE DETAIL

NOT TO SCALE

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS
			REVISIONS

EDINA BIKE BLVD - PHASE 1

TYPICAL SECTIONS AND
TRAFFIC CIRCLE DETAIL

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE 05/07/12 LIC. NO. 40545

DRAWN: KAS
CHECKED: SAW
APPROVED: SAW
DATE: 05/07/12
IMP.# X3-XXX
CONTR.# ENG 00-X

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5/4/2012
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GENERAL

1. THE GOVERNING SPECIFICATIONS FOR THIS PROJECT SHALL BE THE 2005 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THE SPECIFICATIONS FOR CONSTRUCTION BY THE CITY OF EDINA.

2. STREET CENTERLINE AND RIGHT-OF-WAY SHOWN IN THIS PLAN ARE BASED ON CITY OF EDINA GIS INFORMATION. THE PROJECT SURVEYOR SHALL LOCATE PROPERTY CORNERS AND STAKE RIGHT OF WAY LIMITS IN THE FIELD PRIOR TO CONSTRUCTION BEGINNING TO CONFIRM RIGHT-OF-WAY LIMITS AS NECESSARY.

3. ALL WORK SHALL OCCUR WITHIN PUBLIC RIGHT-OF-WAY.

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ADJACENT FACILITIES AND SAFETY OF THE PUBLIC DURING CONSTRUCTION OF THE PROJECT WITHIN AND ADJACENT TO THE PROJECT LIMITS.

5. WHENEVER THE WORD "INCIDENTAL" IS USED IN THIS PLAN, IT SHALL MEAN THIS WORK WILL BE INCIDENTAL FOR WHICH NO DIRECT COMPENSATION WILL BE MADE.

6. REFER TO THE TRAFFIC CONTROL PLANS FOR TRAFFIC CONTROL NOTES.

EROSION AND SEDIMENT CONTROL

7. REMOVE ALL SEDIMENTS AND SOILS TRACKED OR OTHERWISE DEPOSITED ONTO PUBLIC AND PRIVATE PAVEMENT AREAS. REMOVAL SHALL BE ON A DAILY BASIS WHEN TRACKING OCCURS AND MAY BE ORDERED BY CITY INSPECTORS AT ANY TIME IF CONDITIONS WARRANT. SWEEPING SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE CONSTRUCTION AND DONE IN A MANNER TO PREVENT DUST BEING BLOWN TO ADJACENT PROPERTIES.

8. INSTALL INLET PROTECTION AT ALL PUBLIC AND PRIVATE CATCH BASIN INLETS, WHICH RECEIVE RUNOFF FROM THE DISTURBED AREAS. CONTRACTOR SHALL CLEAN, REMOVE SEDIMENT OR REPLACE STORM DRAIN INLET PROTECTION DEVICES ON A ROUTINE BASIS SUCH THAT THE DEVICES ARE FULLY FUNCTIONAL FOR THE NEXT RAIN EVENT. SEDIMENT DEPOSITED IN AND/OR PLUGGING DRAINAGE SYSTEMS IS THE RESPONSIBILITY OF THE CONTRACTOR. HAY AND STRAW BALES OR FILTER FABRIC WRAPPED GRATES ARE NOT ALLOWED FOR INLET PROTECTION.

9. LOCATE SOIL OR DIRT STOCKPILES NO LESS THAN 25 FEET FROM ANY PUBLIC OR PRIVATE ROADWAY OR DRAINAGE CHANNEL. IF REMAINING FOR MORE THAN SEVEN DAYS, STABILIZE THE STOCKPILES BY MULCHING, VEGETATIVE COVER, TARPS, OR OTHER MEANS. CONTROL EROSION FROM ALL STOCKPILES BY PLACING SILT BARRIERS AROUND THE PILES. TEMPORARY STOCKPILES LOCATED ON PAVED SURFACES MUST BE NO LESS THAN TWO FEET FROM THE DRAINAGE/GUTTER LINE AND SHALL BE COVERED IF LEFT MORE THAN 24 HOURS.

10. MAINTAIN ALL TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES IN PLACE UNTIL THE CONTRIBUTING DRAINAGE AREA HAS BEEN STABILIZED. INSPECT TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES ON A DAILY BASIS AND REPLACE DETERIORATED, DAMAGED, OR ROTTED EROSION CONTROL DEVICES IMMEDIATELY.

11. TEMPORARILY OR PERMANENTLY STABILIZE ALL CONSTRUCTION AREAS WHICH HAVE UNDERGONE FINAL GRADING, AND ALL AREAS IN WHICH GRADING OPERATIONS ARE NOT ACTIVELY UNDERWAY AGAINST EROSION DUE TO RAIN, WIND AND RUNNING WATER WITHIN 7-14 DAYS. USE SEED AND MULCH, EROSION CONTROL MATTING, AND/OR SODDING AND STAKING IN GREEN SPACE AREAS. REMOVE ALL TEMPORARY SYNTHETIC, STRUCTURAL, NON-BIODEGRADABLE EROSION AND SEDIMENT CONTROL DEVICES AFTER THE SITE HAS UNDERGONE FINAL STABILIZATION WITH PERMANENT VEGETATION ESTABLISHMENT. FINAL STABILIZATION FOR PURPOSES OF THIS REMOVAL IS 70% ESTABLISHED COVER OVER DENUDED AREA.

12. ALL CONCRETE RELATED PRODUCTION, CLEANING AND MIXING ACTIVITIES SHALL BE DONE IN THE DESIGNATED AREAS. UNDER NO CIRCUMSTANCE MAY WASHOUT WATER DRAIN ONTO THE PUBLIC RIGHT OF WAY OR INTO ANY PUBLIC OR PRIVATE STORM DRAIN CONVEYANCE.

13. REFER TO THE CITY STANDARD SPECIFICATIONS FOR ADDITIONAL EROSION AND SEDIMENT CONTROL INFORMATION AND REQUIREMENTS.

REMOVALS

14. REMOVAL LIMITS SHOWN ON THE PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY EXACT LIMITS WITH THE ENGINEER IN THE FIELD.

15. BITUMINOUS AND CONCRETE ITEMS DISTURBED BY THE CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OUTSIDE THE RIGHT OF WAY IN ACCORDANCE WITH SPEC. 2104.3C3.

MISCELLANEOUS CONSTRUCTION

16. THE CONTRACTOR SHALL CONDUCT OPERATIONS TO MAINTAIN PEDESTRIAN AND TRAFFIC MOVEMENTS THROUGH THE PROJECT LIMITS AT ALL TIMES.

17. THE CONTRACTOR SHALL PLACE A MINIMUM OF 6" CLASS 5 AGGREGATE BASE UNDER PROPOSED CURB AND GUTTER, OR MATCH EXISTING THICKNESS, WHICHEVER IS GREATER, UNLESS OTHERWISE NOTED.

SOILS, EXCAVATION, PAVING, AND RESTORATION

18. SOIL DECOMPACTION – AFTER REMOVAL OF INPLACE PAVEMENT STRUCTURE AND PRIOR TO PLACEMENT OF TOPSOIL AND TURF OR PLANTINGS IN AREAS THAT WERE PREVIOUSLY SURFACED WITH PAVEMENTS OR SIDEWALKS, THE CONTRACTOR SHALL DECOMPACT THE INPLACE SUBGRADE SOILS. THE CONTRACTOR SHALL EXCAVATE DOWN A MINIMUM OF 30" FROM THE EXISTING GRADE, COMPLETELY REMOVE ALL PAVEMENTS AND AGGREGATE BASE MATERIALS, AND BLEND THE REMAINING SUBGRADE SOILS FOR UNIFORMITY, REPLACE TO FINISHED GRADE, AND LIGHTLY COMPACT. THIS WORK SHALL BE PAID FOR UNDER THE ITEM "SUBGRADE EXCAVATION".

19. *GRADING GRADE* IS DEFINED AS THE BOTTOM OF THE AGGREGATE BASE, TYPICALLY CLASS 5 AGGREGATE BASE MATERIALS (MN/DOT SPECIFICATION 3138).

20. WHERE CONNECTING NEW SURFACING ADJACENT TO ANY IN PLACE PAVEMENTS, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE SURFACING OR TOP OF GRADING GRADE, WHICHEVER IS DEEPER, THEN TAPER TRANSVERSELY AT 1:1 (V:H) TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.

21. IN ALL PROPOSED CONSTRUCTION, THE CONTRACTOR SHOULD STRIVE TO SUBSTANTIALLY MATCH THE SOILS IN-PLACE UNDER THE ROADWAYS. FOR EXAMPLE, GRANULAR BACKFILL SHALL NOT BE PERMITTED ADJACENT TO NON-GRANULAR SOILS, IN ORDER TO PREVENT AN ABRUPT SOILS DIFFERENTIAL.

22. PAVEMENT PATCHING - UNLESS OTHERWISE SPECIFICALLY DIRECTED BY THE ENGINEER, PAVEMENT PATCHES SHALL BE CONSTRUCTED TO MATCH EXACTLY THE THICKNESSES AND MATERIAL TYPES OF THE ADJACENT PAVEMENT, AGGREGATE BASE, AND GRANULAR SUBBASE LAYERS. PAVEMENT INFORMATION PROVIDED BY THE CITY OF EDINA DURING PROJECT DESIGN AS DETERMINED FROM EXISTING CONSTRUCTION PLAN DATA AND UTILITY CUT INFORMATION IS DEPICTED IN THE PAVEMENT DETAILS IN THESE PLANS. THE CONTRACTOR SHALL NOTE THAT THE ACTUAL PAVEMENT SECTIONS IN PLACE MAY DIFFER FROM THE SECTIONS SHOWN IN THESE PLANS. PAYMENT SHALL BE MADE FOR ACTUAL QUANTITIES OF MATERIALS PLACED UNDER THE APPROPRIATE PAY ITEMS.

23. OBTAIN COMPACTION ON THE GRADING PORTIONS OF PERMANENT CONSTRUCTION IN ACCORDANCE WITH THE "SPECIFIED DENSITY METHOD" REQUIREMENTS, MNDOT SPECIFICATION 2105.3F1.

24. COMPACTION OF AGGREGATE BASE SHALL BE IN ACCORDANCE WITH THE "PENETRATION INDEX METHOD" REQUIREMENTS.

25. COMPACTION OF BITUMINOUS WEAR AND NON-WEAR PAVEMENTS SHALL BE BY THE MAXIMUM DENSITY METHOD.

26. USE TACK COAT BETWEEN ALL BITUMINOUS MIXTURE LIFTS AND PRIOR TO PLACING ANY BITUMINOUS MIXTURES ON EXISTING PAVEMENT. THE ROADWAY SURFACE SHALL BE CLEAN AND FREE OF DEBRIS PRIOR TO APPLYING TACK. BITUMINOUS TACK COAT MATERIAL SHALL BE APPLIED AT A UNIFORM RATE OF 0.03 TO 0.05 GAL/SQ YD BETWEEN ALL BITUMINOUS LAYERS AND A RATE OF 0.07 TO 0.10 GAL/SQ YD ON CONCRETE PAVEMENT AND MILLED BITUMINOUS SURFACES PRIOR TO BEING OVERLAID. THESE APPLICATION RATES ARE FOR UNDILUTED EMULSIONS (AS SUPPLIED FROM THE REFINERY) OR MC AND RC LIQUID ASPHALT. THE ASPHALT EMULSION MAY BE FURTHER DILUTED IN THE FIELD IN ACCORDANCE WITH MN/DOT 2357.

27. AS A PRECAUTIONARY MEASURE FROM A SAFETY STANDPOINT, TRAFFIC LANES TO BE USED DURING CONSTRUCTION MUST BE DELINEATED TO KEEP VEHICLES A SAFE DISTANCE AWAY FROM THE ADJACENT EXCAVATION. THE DELINEATION SHOULD COINCIDE WITH POINTS ESTABLISHED BY PROJECTING 1:2 OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION.

28. ALL EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE DISPOSED OF OFF SITE BY THE CONTRACTOR IN ACCORDANCE WITH MN/DOT SPECIFICATIONS.

29. ANY DEBRIS WHICH MAY BE ENCOUNTERED DURING GRADING SHALL BE DISPOSED OF BY THE CONTRACTOR OFF THE PROJECT RIGHT OF WAY IN A SUITABLE DISPOSAL AREA AS APPROVED BY THE ENGINEER.

30. DISPOSITION OF EXCAVATED MATERIAL SHALL BE IN ACCORDANCE WITH SPECIFICATION 2105.3D.

95% PLAN SUBMITTAL

UTILITY CONTACT LIST

UTILITY	CONTACT	PHONE
COMCAST	KELLY DOONAN	612-369-5939
CENTERPOINT ENERGY	DEAN NICHOLAS	612-321-5561
CENTURY LINK	GARY ROBACK MARK HEMMESCH	612-663-0887 612-861-8149
XCEL ENERGY	GREGG WENZEL	952-829-4513
CITY OF MINNEAPOLIS - SURFACE WATERS & SEWER	KEVIN DANEN	612-673-5627
CITY OF MINNEAPOLIS - WATER DISTRIBUTION	MARIE ASGIAN	612-673-5682

UTILITY NOTES

1. IF THE CONTRACTOR DISCOVERS UTILITY PROPERTY WHOSE EXISTENCE WAS NOT KNOWN, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE UTILITY OWNER AND THE ENGINEER.

2. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING ALL UTILITY OWNERS AND TO ASCERTAIN THE LOCATION OF ALL EXISTING UNDERGROUND UTILITIES BEFORE PERFORMING EXCAVATION OPERATIONS. THE CONTRACTOR SHALL CONDUCT OPERATIONS IN THE VICINITY OF EXISTING UNDERGROUND UTILITIES IN A MANNER THAT WILL PREVENT DAMAGE TO ANY OF THEM.

3. STATE LAW REQUIRES ANYONE EXCAVATING OR DRILLING IN THE GROUND IN THE STATE OF MINNESOTA WITH POWER EQUIPMENT TO CALL GOPHER STATE "ONE CALL" AT 651-454-0002 FOR UTILITY LOCATIONS AT LEAST 48 HOURS BEFORE STARTING WORK.

4. THE SUBSURFACE UTILITY INFORMATION IN THIS PLAN IS UTILITY QUALITY LEVEL D. THIS UTILITY QUALITY LEVEL WAS DETERMINED ACCORDING TO THE GUIDELINES OF CI/ASCE 38-02, ENTITLED "STANDARD GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA".

5. THE EXISTING UTILITY LOCATIONS SHOWN IN THE PLANS WERE DETERMINED FROM DRAWINGS FURNISHED BY THE UTILITY OWNERS AND ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATIONS IN THE FIELD.

6. CITY OF EDINA AND MINNEAPOLIS OWNED UTILITIES SHALL BE ADJUSTED, RELOCATED, OR REMOVED UNDER THIS CONTRACT UNLESS OTHERWISE NOTED IN THE PLANS. ALL OTHER PRIVATE UTILITY WORK SHALL BE BY OTHERS UNLESS OTHERWISE NOTED IN THE CONTRACT.

NO.	DATE	BY	REMARKS REVISIONS

EDINA BIKE BLVD – PHASE 1
CONSTRUCTION NOTES
UTILITY CONTACT LIST AND NOTES

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 40545

DRAWN: KAS
CHECKED: SAW
APPROVED: SAW
DATE: 05/07/12
IMP.# X3-XXX
CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

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TRAFFIC CONTROL NOTES & GUIDELINES

GENERAL INFORMATION:

1. THE CONTRACTOR SHALL FURNISH, INSTALL AND MAINTAIN THE DEVICES IN THIS TRAFFIC CONTROL PLAN UNLESS OTHERWISE NOTED. IN PLACE SIGNING MUST ALSO BE MAINTAINED OR TEMPORARILY RELOCATED FOR CONSTRUCTION ACTIVITIES.
2. FIELD CONDITIONS MAY REQUIRE MODIFICATIONS OF THIS LAYOUT AS DEEMED NECESSARY BY THE ENGINEER.
3. ALL DISTANCES ARE APPROXIMATE. PLANS ARE NOT DRAWN TO SCALE.
4. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ANY WORK AREAS NEAR TRAFFIC IN ACCORDANCE WITH THE MNMUTCD.
5. SIGN INSTALLATIONS SHALL NOT OBSTRUCT EXISTING SIGNS.
6. THE ITEM ''TRAFFIC CONTROL'' COVERS ALL DEVICES SHOWN ON THE PLAN SHEETS AND OTHER SETUPS REQUIRED BY THE CONTRACTOR'S OPERATIONS.

SIGNING:

1. ALL TRAFFIC CONTROL DEVICES, INCLUDING OVERHEAD SIGNS ON ROADS OPEN TO TRAFFIC THAT ARE NOT CONSISTENT WITH TRAFFIC OPERATION SHALL BE COVERED, REMOVED OR REVISED AS DIRECTED BY THE ENGINEER.
2. WHEN SIGNS ARE INSTALLED, THEY SHALL BE MOUNTED ON POSTS DRIVEN INTO THE GROUND AT THE PROPER HEIGHT AND LATERAL OFFSET AS DETAILED IN THE ATTACHED TYPICAL SIGN FRAMING AND INSTALLATION DETAILS. IF THIS IS NOT POSSIBLE, THEY WILL BE MOUNTED ON PORTABLE SUPPORTS AS APPROVED BY THE ENGINEER. WHEN THE SIGNS ARE REMOVED THE SIGN POSTS SHALL ALSO BE REMOVED WITHIN 2 WEEKS (5-18.4(B)).
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY EXTRA SIGNING NEEDED TO FACILITATE TRAFFIC SWITCHES OR FOR TRANSITIONING TRAFFIC FROM ONE STAGE TO ANOTHER.
4. ALL TEMPORARY RIGID ORANGE WARNING AND RIGID ORANGE GUIDE SIGNS SHALL BE FABRICATED WITH TYPE HP FLO (HIGH PERFORMANCE FLUORESCENT SIGN SHEETING FOR RIGID TEMPORARY OR PERMANENT SIGNS). ALL RIGID SIGNS INSTALLED, OTHER THAN THOSE WITH ORANGE BACKGROUNDS, ON A TEMPORARY BASIS SHALL BE FABRICATED WITH TYPE HP (HIGH PERFORMANCE SHEETING FOR RIGID PERMANENT SIGNS). INPLACE SIGNS THAT STILL APPLY DURING TEMPORARY OPERATIONS MAY REMAIN IN PLACE WITH NO CHANGE IN SIGN SHEETING REQUIRED.

   BARRICADES FABRICATED WITH EITHER ASTM TYPE VII, SIGN SHEETING FOR RIGID TEMPORARY SIGNS OR TYPE HP (HIGH PERFORMANCE SHEETING FOR RIGID PERMANENT SIGNS) MAY BE INTERMIXED AND USED ON ANY PROJECT UNTIL THE JANUARY 1, 2010 IMPLEMENTATION DATE.
5. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" FIELD MANUAL UNLESS OTHERWISE SPECIFIED IN THESE PLANS.
6. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE INSTALLED AS NEEDED, OR PROVIDE TEMPORARY SIGNING AT THEIR EXPENSE UNTIL THE FINAL SIGNING IS INSTALLED.

PAVEMENT MARKING:

1. OBLITERATE ANY CONFLICTING PAVEMENT MARKINGS AS DIRECTED BY THE ENGINEER.
2. PAINT, POLYMER LANE TAPE AND/OR TRPM'S ARE ACCEPTABLE TEMPORARY STRIPING ALTERNATIVES ACCORDING TO ACTUAL CONDITIONS ENCOUNTERED AS DIRECTED BY THE ENGINEER. GENERALLY, ONLY PAINT WILL BE USED BEFORE MAY 1ST OR WHEN THE OTHER MANUFACTURERS SPECIFICATIONS CAN NOT BE MET.
3. TRPM'S (TEMPORARY RAISED PAVEMENT MARKERS) SHOULD BE USED TO SUPPLEMENT THE LONG TERM (MORE THE 3 DAYS) EDGELINES ON ALL TRANSITION AREAS WHEN THE CONDITIONS ARE WITHIN THE MANUFACTURERS SPECIFICATIONS.
4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION AND INSTALLATION OF TEMPORARY AND FINAL STRIPING.

TRAFFIC CONTROL DEVICES & SYMBOLS LEGEND

95% PLAN SUBMITTAL

SYMBOL	DESCRIPTION
☼	- TYPE A FLASHING WARNING LIGHTS
●	- RETROREFLECTIVE DRUM, TYPE I OR TYPE II BARRICADE, VERTICAL PANEL
├	- SIGN (SHOWN FACING LEFT)
⊔	- TYPE III BARRICADE

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

TRAFFIC CONTROL DETAILS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3280
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 40545

DRAWN: KAS
CHECKED: TJJ
APPROVED: SAW
DATE: 05/07/12
IMP.# X3-XXX
CONTR.# ENG 00-X

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5/7/2012
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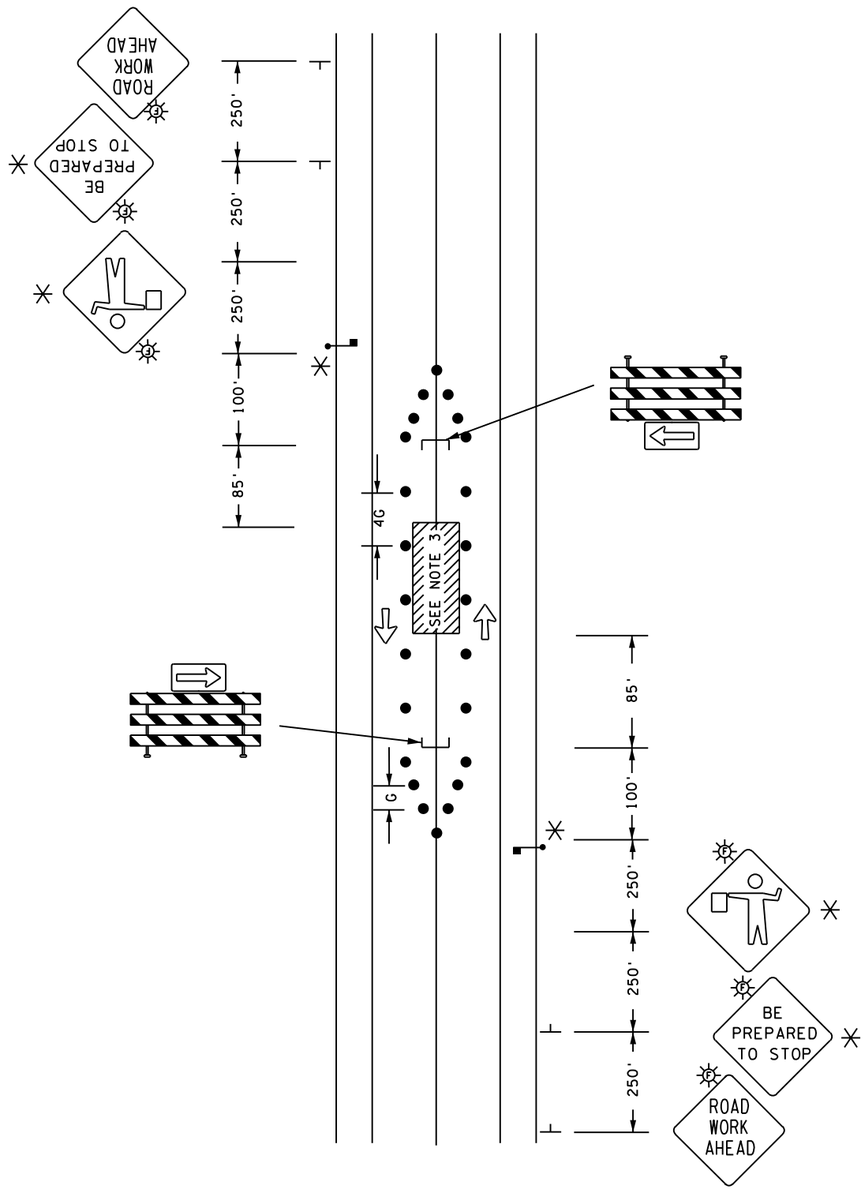
95% PLAN SUBMITTAL



WORK SPACE IN CENTER OF ROAD
TWO LANE TWO WAY ROAD 30 MPH
NOT TO BE USED FOR MORE THAN THREE CALENDAR DAYS

NOTES:

1. MINIMUM PAVED LANE WIDTH FROM THE CHANNELIZING DEVICES TO THE EDGE OF PAVEMENT OR OUTSIDE EDGE OF THE SHOULDER SHALL BE 10 FT.
2. ✳ - REQUIRED IF THERE IS LESS THAN 10 FT. OF PAVED SURFACE AVAILABLE TO PASS THE WORK SPACE.
3. PARKING AND STOPPING SHALL BE PROHIBITED ALONG THE WORK AREA AND TAPERS.
4. TAPER LENGTH (L) IS BASED ON A 8 FT. OFFSET. ADJUST FOR DIFFERENT OFFSETS.

● DRUMS, TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL.

NOTE: ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1
TRAFFIC CONTROL DETAILS

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SHEET 6 OF 42

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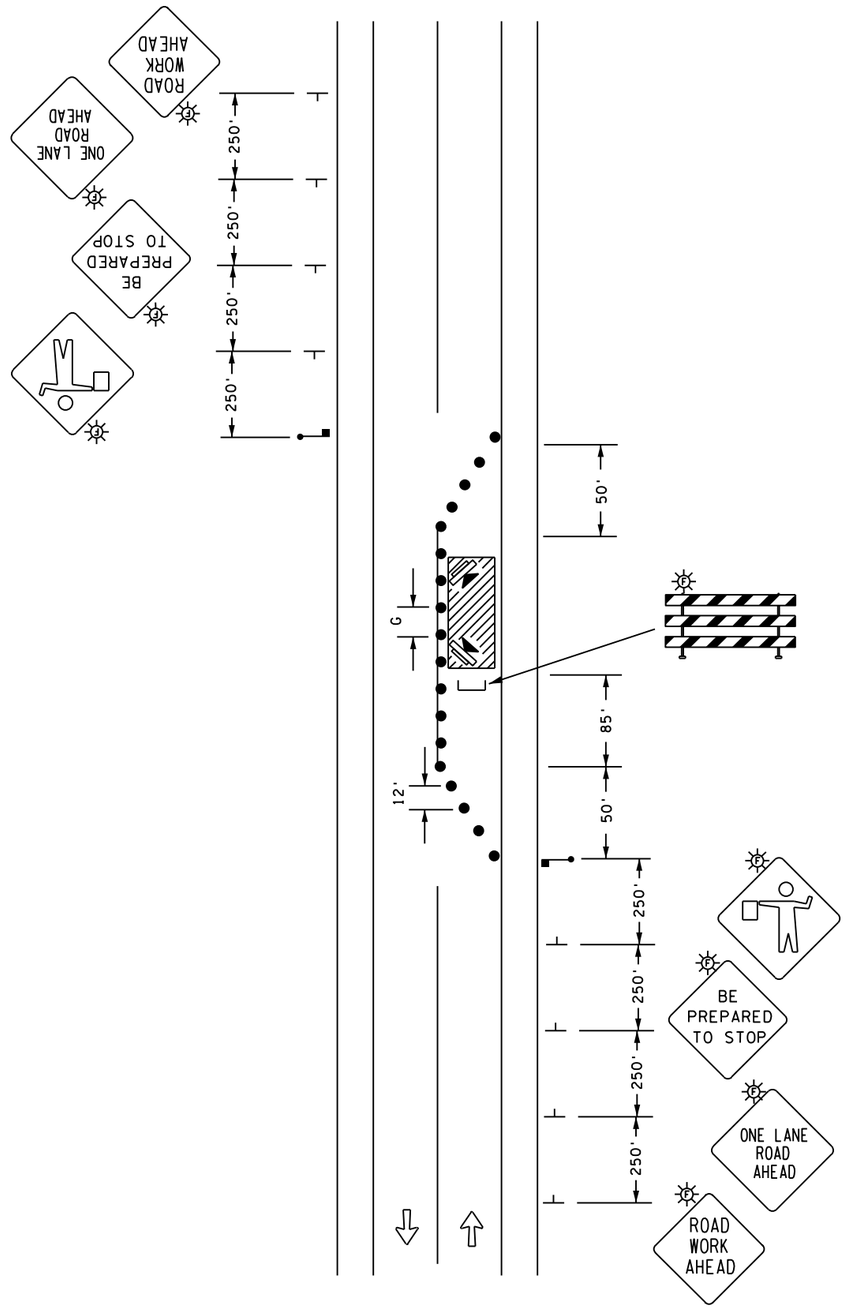

LANE CLOSURE, TWO FLAGGERS
TWO LANE TWO WAY ROAD (30 MPH)

NOT TO BE USED FOR MORE THAN THREE CALENDAR DAYS

NOTES:

1. FOR ANY EXCAVATION OR DROP-OFF IN EXCESS OF 12 IN., SEE THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES SECTION 6F, PORTABLE BARRIERS.

● DRUMS, TYPE I OR TYPE II BARRICADE OR VERTICAL PANEL.

NOTE: ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM AND BE INSTALLED IN ACCORDANCE TO THE "MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MN MUTCD) AND PART VI, "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".

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EDINA BIKE BLVD - PHASE 1
TRAFFIC CONTROL DETAILS

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233 PARK AVENUE SOUTH
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MINNEAPOLIS, MN 55415
612.758-3989
612.758-3999 FAX

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CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

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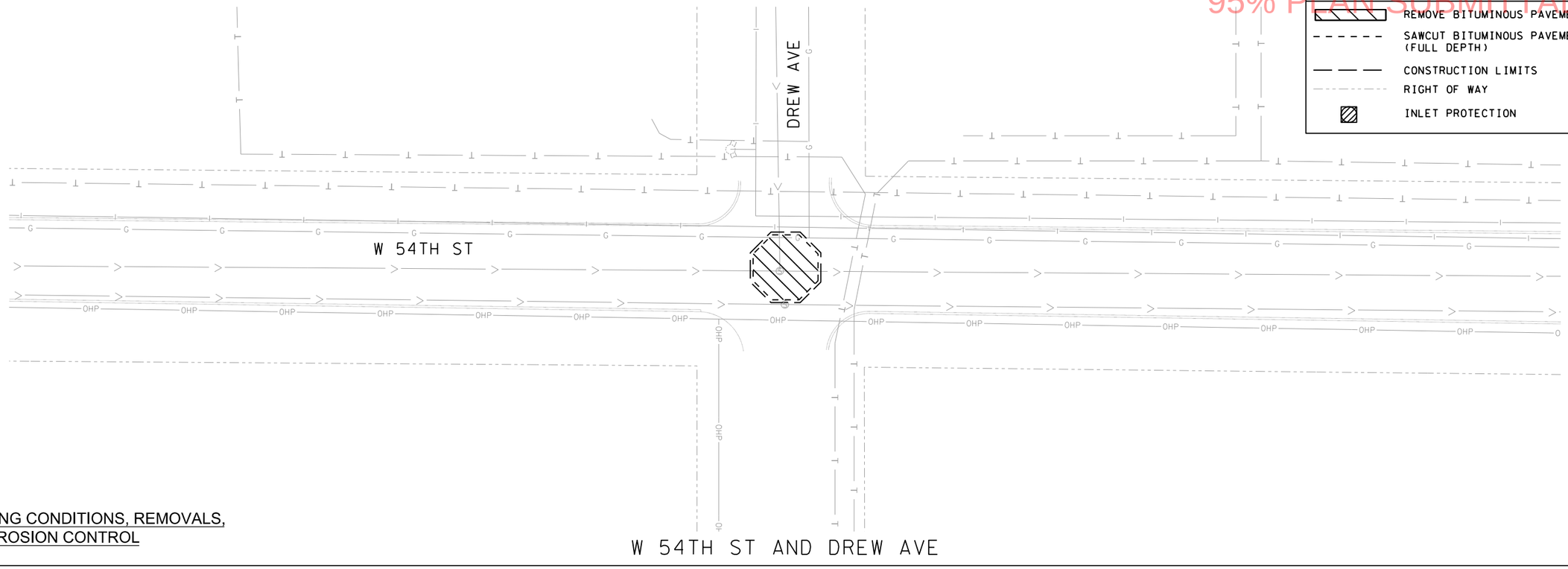


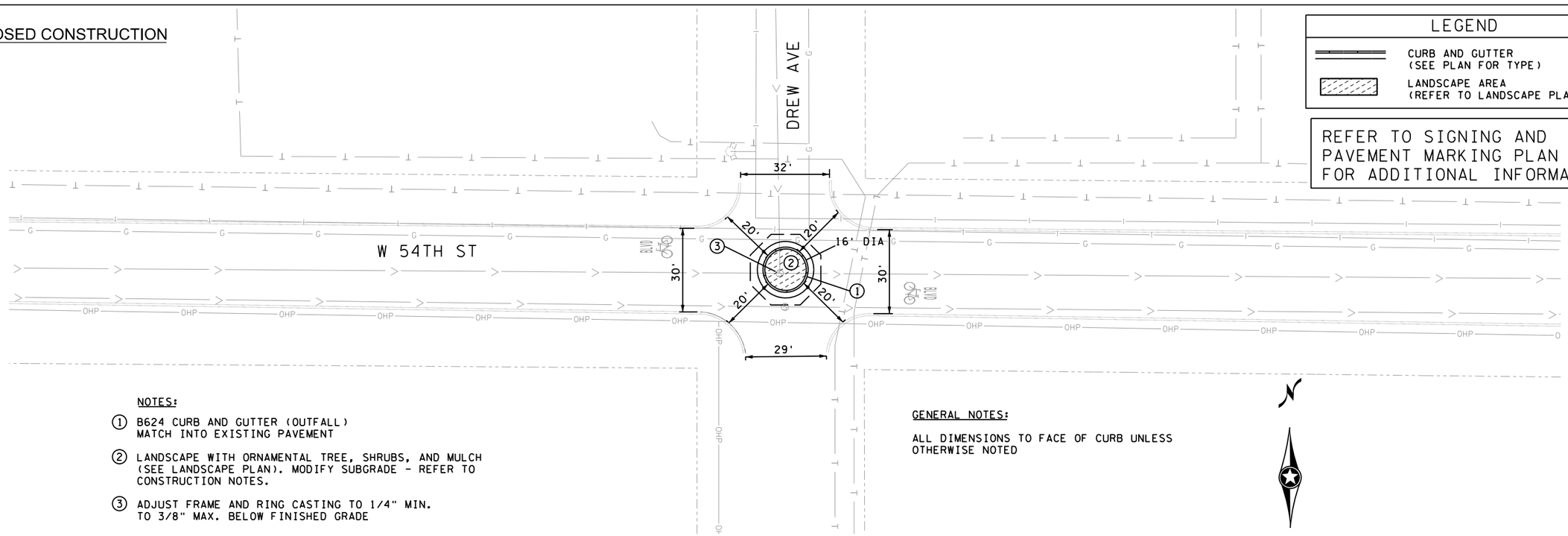
EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

W 54TH ST AND DREW AVE

LEGEND

- REMOVE BITUMINOUS PAVEMENT
- SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
- CONSTRUCTION LIMITS
- RIGHT OF WAY
- INLET PROTECTION

PROPOSED CONSTRUCTION



LEGEND

- CURB AND GUTTER (SEE PLAN FOR TYPE)
- LANDSCAPE AREA (REFER TO LANDSCAPE PLAN)

REFER TO SIGNING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION

NOTES:

1. B624 CURB AND GUTTER (OUTFALL) MATCH INTO EXISTING PAVEMENT
2. LANDSCAPE WITH ORNAMENTAL TREE, SHRUBS, AND MULCH (SEE LANDSCAPE PLAN). MODIFY SUBGRADE - REFER TO CONSTRUCTION NOTES.
3. ADJUST FRAME AND RING CASTING TO 1/4" MIN. TO 3/8" MAX. BELOW FINISHED GRADE

GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

N

40

SCALE IN FEET

W 54TH ST AND DREW AVE

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

CONSTRUCTION PLAN

EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

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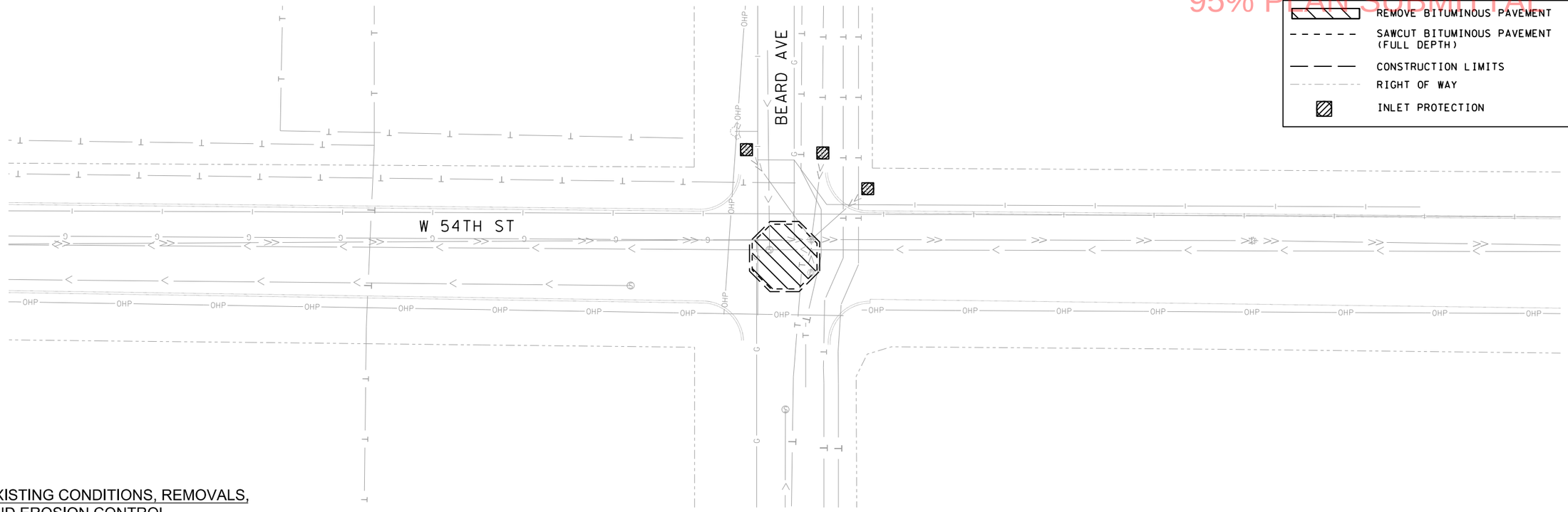
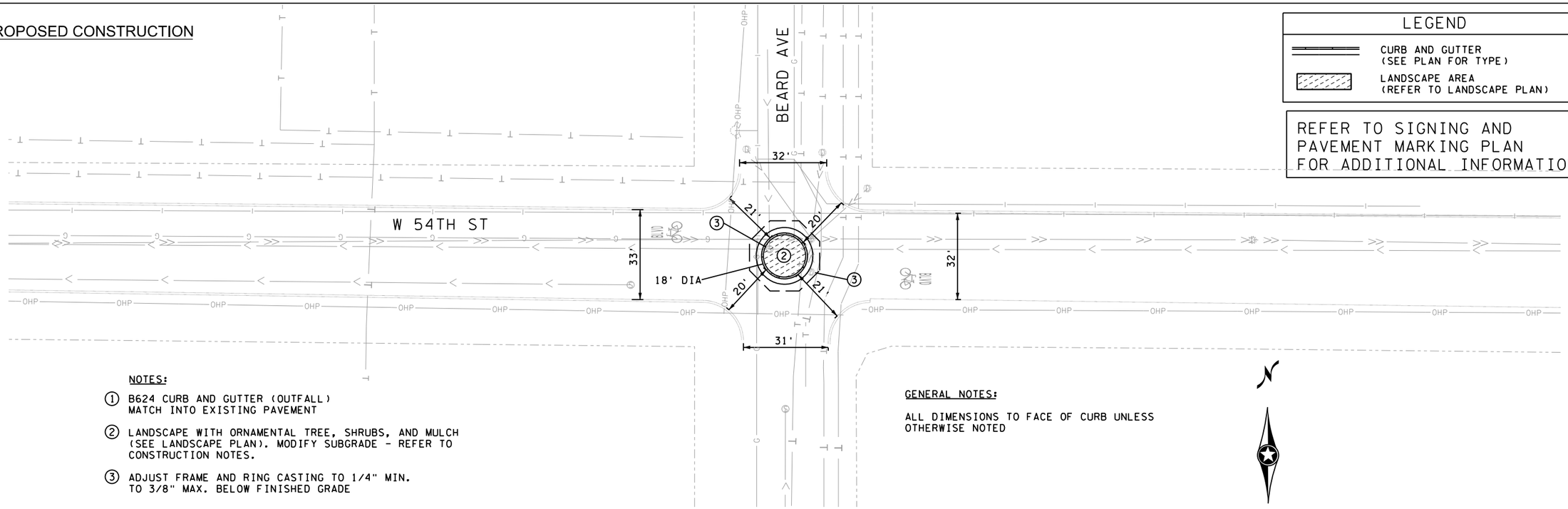


EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

W 54TH ST AND BEARD AVE

LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	SAWCUT BITUMINOUS PAVEMENT (FULL DEPTH)
	CONSTRUCTION LIMITS
	RIGHT OF WAY
	INLET PROTECTION

PROPOSED CONSTRUCTION



LEGEND	
	CURB AND GUTTER (SEE PLAN FOR TYPE)
	LANDSCAPE AREA (REFER TO LANDSCAPE PLAN)

REFER TO SIGNING AND PAVEMENT MARKING PLAN FOR ADDITIONAL INFORMATION

NOTES:

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GENERAL NOTES:

ALL DIMENSIONS TO FACE OF CURB UNLESS OTHERWISE NOTED

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40

SCALE IN FEET

W 54TH ST AND BEARD AVE

STATE PROJ.#: 120-091-002

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EDINA BIKE BLVD - PHASE 1

CONSTRUCTION PLAN

EXISTING CONDITIONS, REMOVALS, AND EROSION CONTROL

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CONTR.#	ENG 00-X

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PLANTING NOTES:

INSTALL 12" PLANTING SOIL TO ALL PLANTING AREAS.

STAKE OR MARK ALL PLANT MATERIAL LOCATIONS PRIOR TO INSTALLATION. HAVE OWNERS REPRESENTATIVE APPROVE AL STAKING PRIOR TO INSTALLATION.

ALL SHRUB AREAS TO BE BED MULCHED WITH 4" DEPTH OF DOUBLE SHREDDED HARDWOOD MULCH OVER FILTER FABRIC.

PLANTING SOIL SHALL CONSIST OF ONE PART EXISTING SOIL BY VOLUME, ONE PART SELECT TOPSOIL BORROW BY VOLUME, AND ONE PART COMPOST BY VOLUME.

COMPLETELY GUARANTEE ALL WORK FOR A PERIOD OF ONE YEAR BEGINNING AT THE DATE OF ACCEPTANCE. MAKE ALL REPLACEMENTS PROMPTLY (AS PER DIRECTION OF OWNER).

ALL MATERIAL SHALL COMPLY WITH THE LATEST EDITION OF THE AMERICAN STANDARD FOR NURSERY STOCK, AMERICAN ASSOCIATION OF NURSERYMEN.

ALL TREE TRUNKS SHALL BE WRAPPED WITH BROWN CREPE TREE WRAP. APPLY WRAP IN NOVEMBER AND REMOVE IN APRIL.

CALL GOPHER STATE ONE CALL AT 651-454-0002 FOR LOCATING ALL UNDERGROUND UTILITIES AND AVOID DAMAGE TO UTILITIES DURING THE COURSE OF THE WORK.

MAINTAIN ALL PLANT MATERIALS, INCLUDING WATERING, UNTIL THE TIME OF ACCEPTANCE.

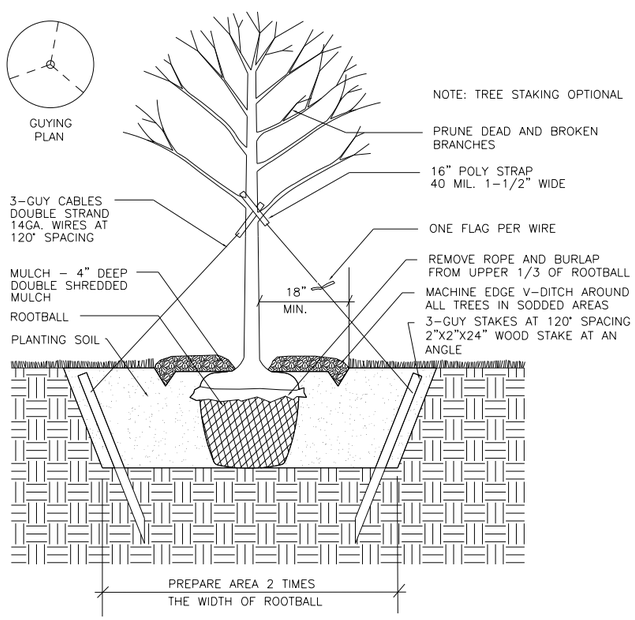
STAKING AND GUYING OF TREES OPTIONAL: MAINTAIN PLUMBNESS OF TREES FOR DURATION OF WARRANTY PERIOD.

SWEEP AND WASH ALL PAVED SURFACES AND REMOVE ALL DEBRIS RESULTING FROM LANDSCAPE OPERATIONS.

TYPICAL LANDSCAPE SCHEDULE – TRAFFIC CIRCLE

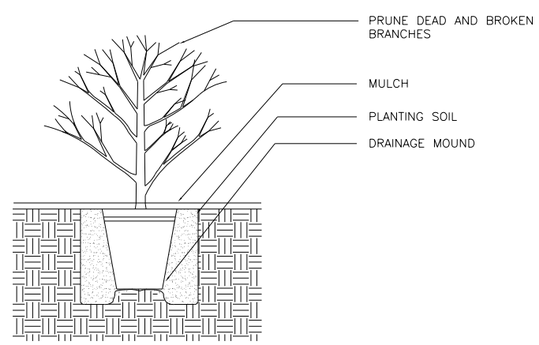
QTY.	KEY	COMMON NAME/ BOTANICAL NAME	SIZE	REMARKS
		ORNAMENTAL TREES		
1	SB	CLUMP SERVICEBERRY Amelanchier x grandiflora 'Aumtumn Brilliance'	6' B&B	STRAIGHT TRUNK, NO V-CROTCH
		SHRUBS		
3	NF	NEON FLASH SPIREA Spirea japonica 'Neon Flash'	18" HT., CONT.	MIN. 5 CANES AT HT. SPEC.
		PERENNIALS		
8	BS	BLUE SALVIA Salvia 'Viola Klose'	1 GAL., CONT.	
9	CM	WALKER'S LOW CATMINT N. x faasenii 'Walker Low'	1 GAL., CONT.	
8	PD	PARDON ME DAYLILY Hemerocallis 'Pardon Me'	1 GAL., CONT.	
8	SD	STELLA SUPREME DAYLILY Hemerocallis 'Stella Supreme'	1 GAL., CONT.	

NOTES: QUANTITIES ON PLAN SUPERSEDE LIST QUANTITIES IN EVENT OF DISCREPANCEY.



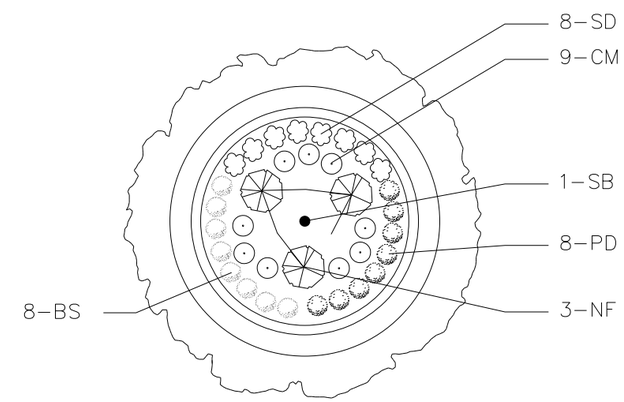
TREE PLANTING DETAIL

NOT TO SCALE



SHRUB PLANTING DETAIL

NOT TO SCALE



TYPICAL TRAFFIC CIRCLE LANDSCAPING

W 54TH ST/BEARD AVE
W 54TH ST/DREW AVE

STATE PROJ.#: 120-091-002

EDINA BIKE BLVD – PHASE 1
LANDSCAPE PLAN

NO.	DATE	BY	REMARKS / REVISIONS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED LANDSCAPE ARCHITECT UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 26222

DRAWN: KAS
CHECKED: SAW
APPROVED: MK
DATE: 05/07/12
IMP.# X3-XXX
CONTR.# ENG 00-X
SHEET 10 OF 42

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95% PLAN SUBMITTAL

TO BE COMPLETED FOR FINAL PLANS

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS
			REVISIONS

EDINA BIKE BLVD - PHASE 1

TABULATIONS

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EDINA BIKE BLVD - PHASE 1

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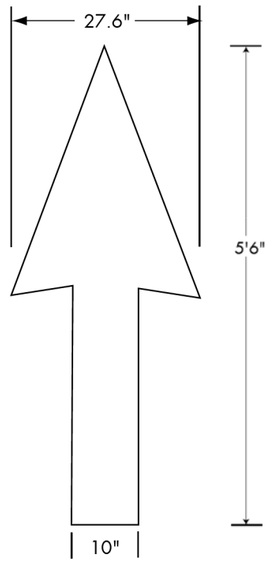
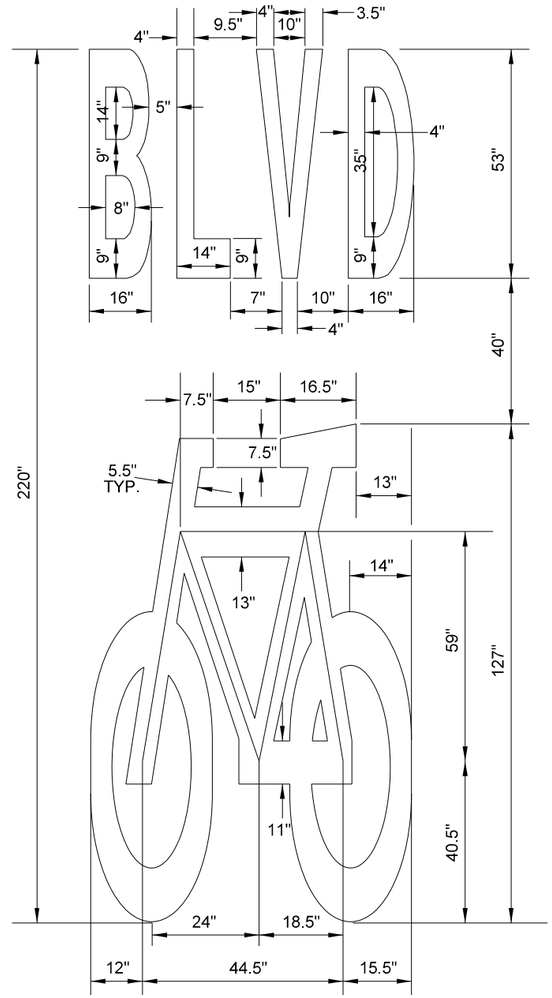
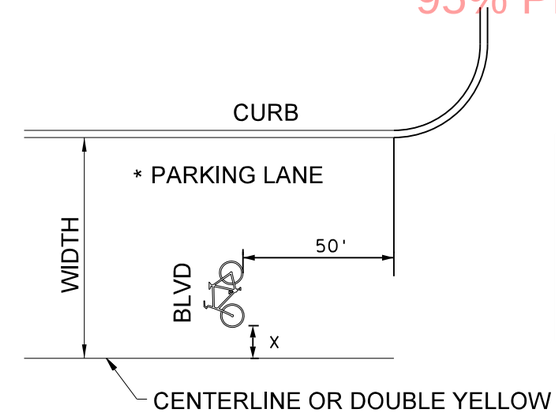




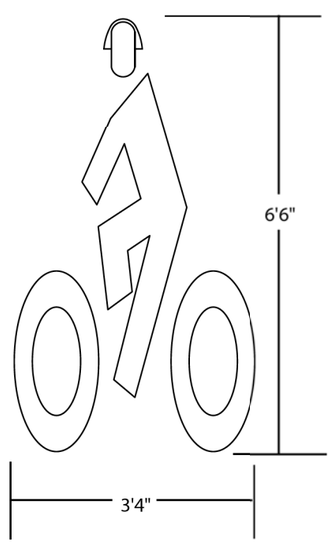


WIDTH	X
14 - 15'	1'
>15 - 17'	2'
>17 - 19'	3'
>19 - 21'	4'

PAVEMENT MESSAGES SHALL BE POSITIONED AS DETAILED ABOVE AND ACCORDING TO DIRECTION OF APPROACHING TRAFFIC.

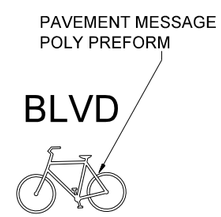
* IF NO PARKING LANE THEN PLACE BIKE SYMBOL WITH BLVD MESSAGE IN THE CENTER OF THE LANE

BICYCLE BOULEVARD PAVEMENT MARKING DETAIL



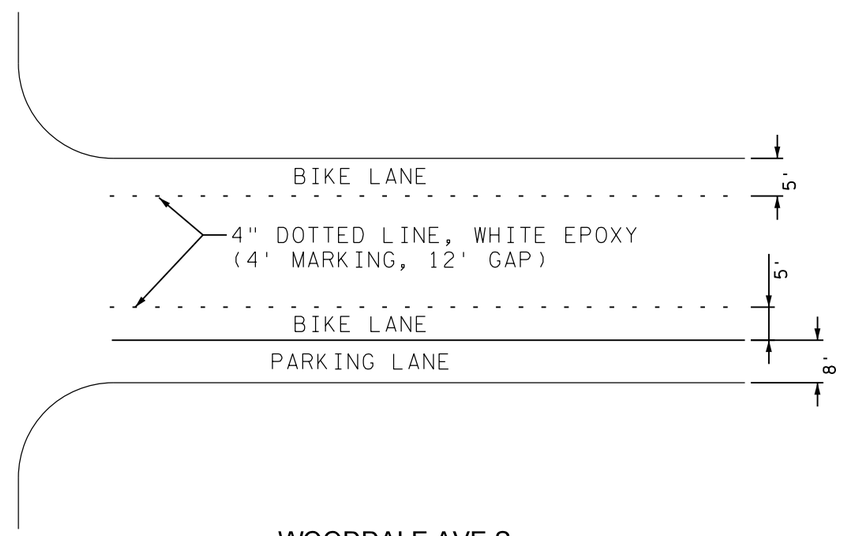
BICYCLE SYMBOL WITH ARROW MESSAGE SHALL BE WHITE EPOXY

BICYCLE LANE PAVEMENT MARKING



PAVEMENT MESSAGES SHALL BE POSITIONED ACCORDING TO DIRECTION OF APPROACHING TRAFFIC

BIKE BOULEVARD PAVEMENT MARKING DETAIL
PAVEMENT MARKING SPECIAL 3



WOODDALE AVE S
ADVISORY LANE PAVEMENT MARKING DETAIL

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EDINA BIKE BLVD - PHASE 1
PAVEMENT MARKING DETAILS

CITY OF EDINA
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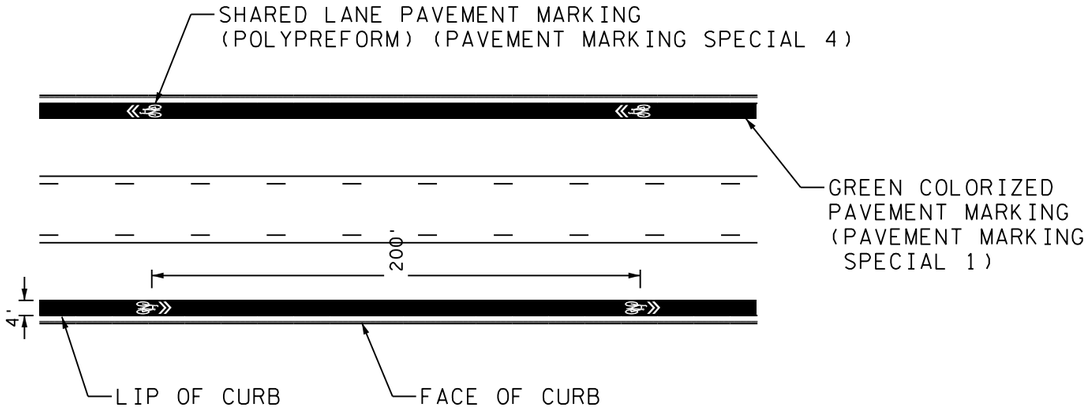
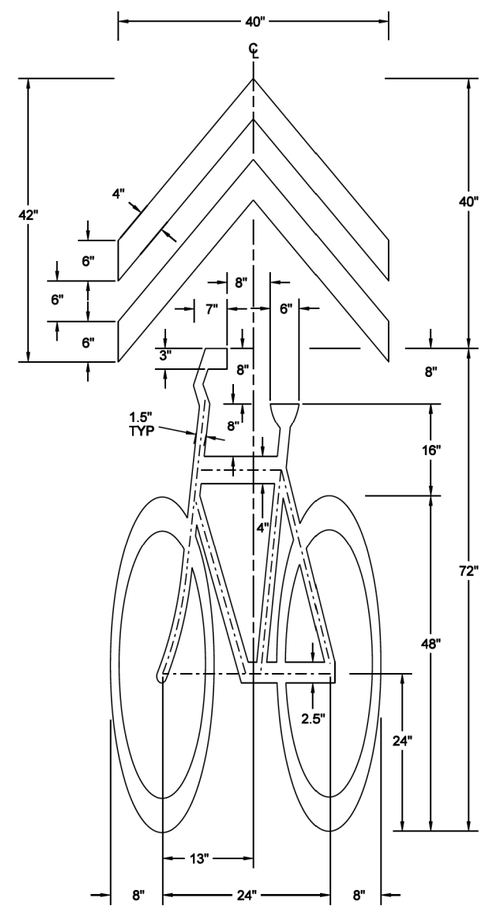
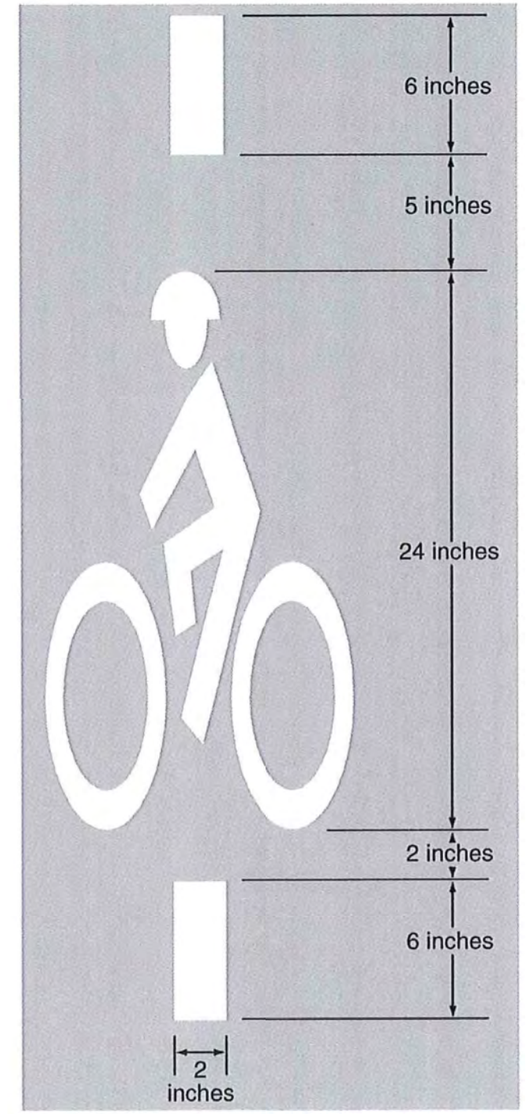


VALLEY VIEW RD
GREEN COLORIZED SHARED LANE PAVEMENT MARKING DETAIL



SHARED LANE PAVEMENT MARKING
PAVEMENT MARKING SPECIAL 4



THE CENTER OF THE BIKE DETECTOR PAVEMENT MESSAGES SHALL BE POSITIONED ON TOP OF THE EXISTING VISIBLE "PUCK-LIKE" DETECTORS AS INDICATION ON THE SIGNING AND STRIPING PLANS.

THE BIKE DETECTOR PAVEMENT MESSAGE SHALL BE WHITE EPOXY

BIKE DETECTOR PAVEMENT MARKING
PAVEMENT MARKING SPECIAL 2

STATE PROJ.#: 120-091-002

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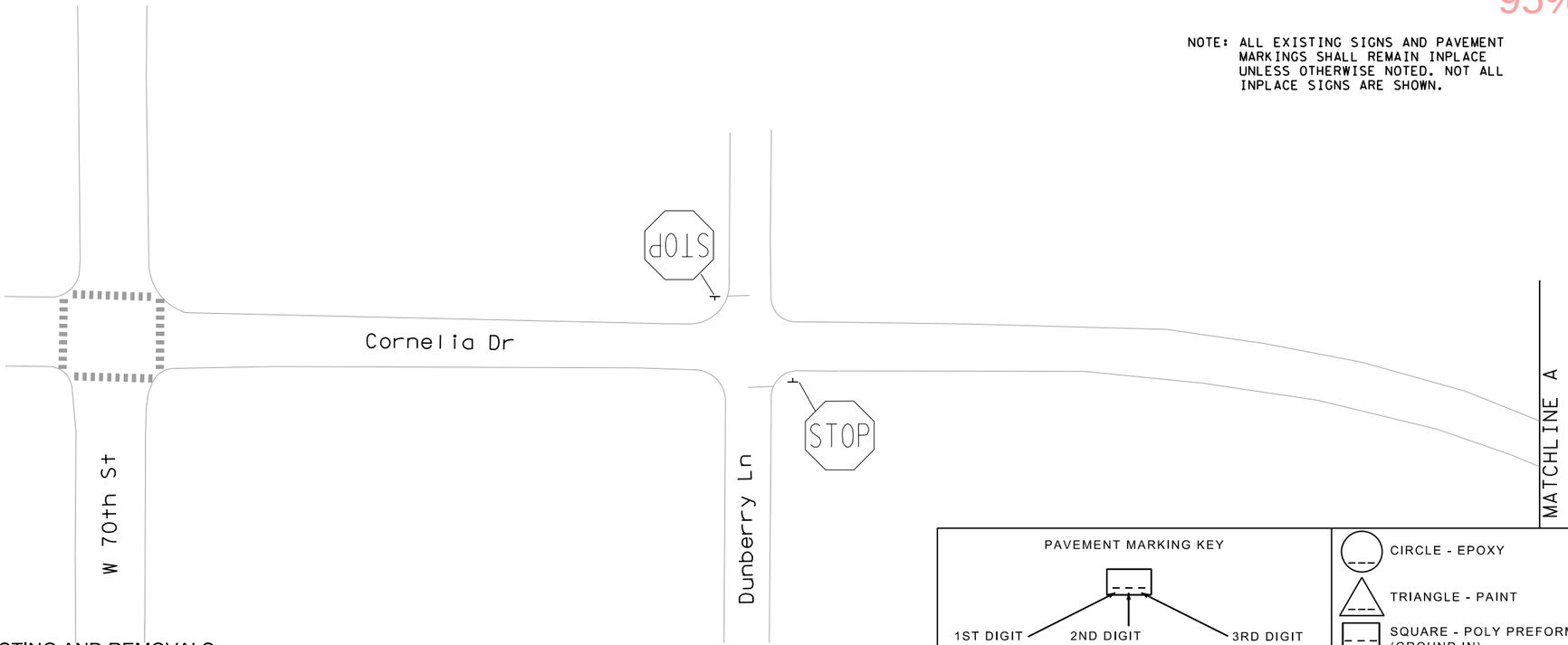
95% PLAN SUBMITTAL

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED. NOT ALL INPLACE SIGNS ARE SHOWN.



EXISTING AND REMOVALS

PAVEMENT MARKING KEY

1ST DIGIT WIDTH: 4", 8", ETC.

2ND DIGIT PATTERN: S - SOLID; B - BROKEN; D - DOTTED/DOUBLE

3RD DIGIT COLOR: W - WHITE; Y - YELLOW; B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 13-14

- CIRCLE - EPOXY
- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE - POLY PREFORM (GR IN) (BIKE SYMBOL WITH BLVD-SPECIAL 3)*
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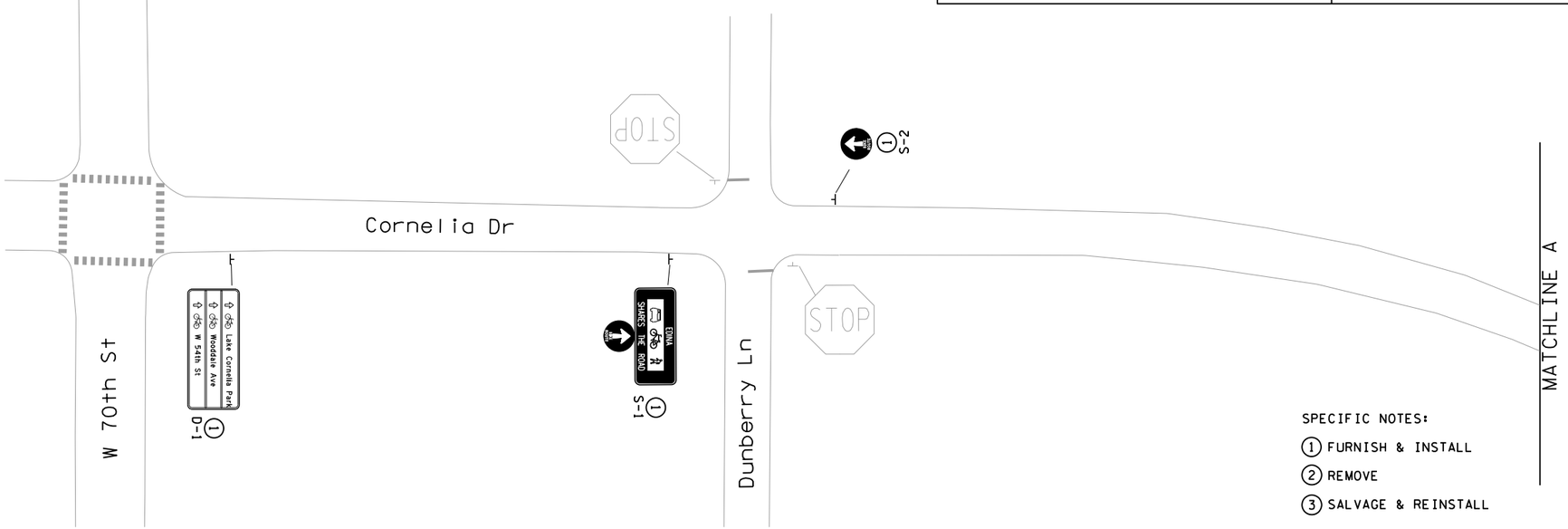
- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BIKE LANE ARROW)*
- PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*
- EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET

PROPOSED



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3280
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 42828

DRAWN: KAS
CHECKED: KAB
APPROVED: MRA
DATE: 05/07/12

IMP.# X3-XXX
CONTR.# ENG 00-X

SHEET 15 OF 42

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5/7/2012
X:\2012\120007\DESIGN\PlanSheets\cd120007_pm01.dgn

95% PLAN SUBMITTAL

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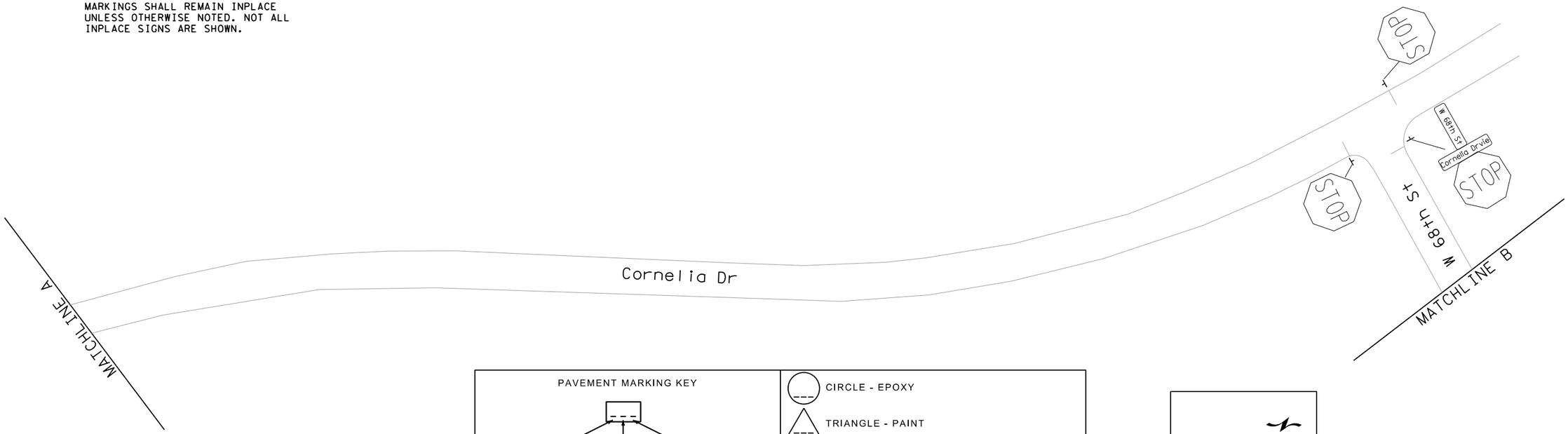

EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

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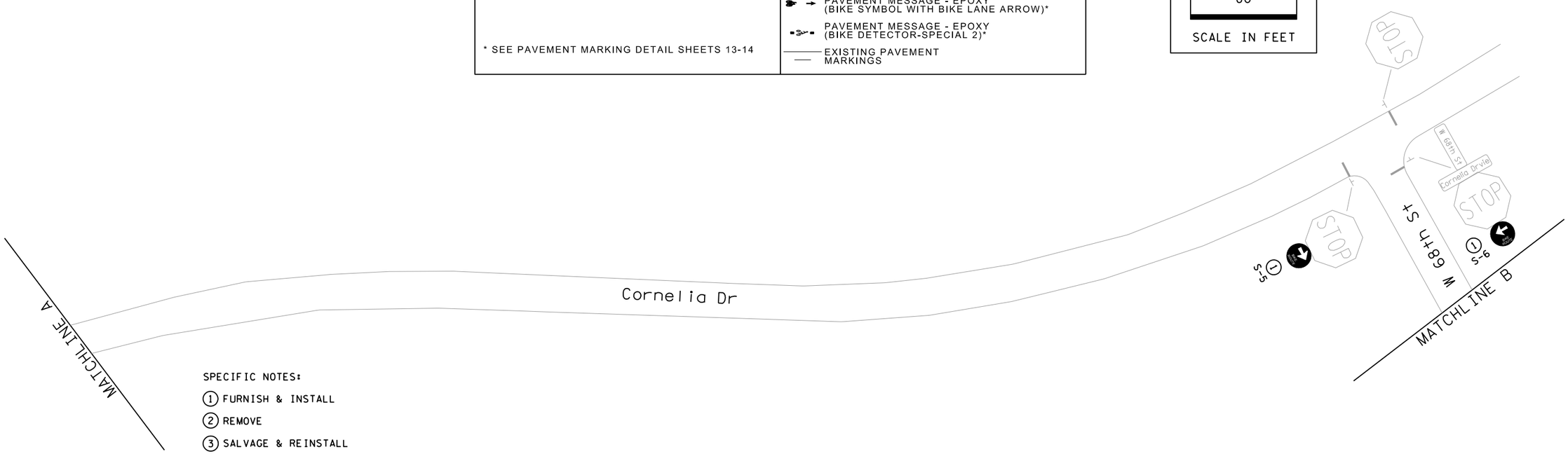
PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BIKE LANE ARROW)*

PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*

EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET



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NO.	DATE	BY	REMARKS / REVISIONS

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CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

SHEET 16 OF 42

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5/7/2012
X:\2012\120007\DESIGN\PlanSheets\cd120007_pm02.dgn

95% PLAN SUBMITTAL

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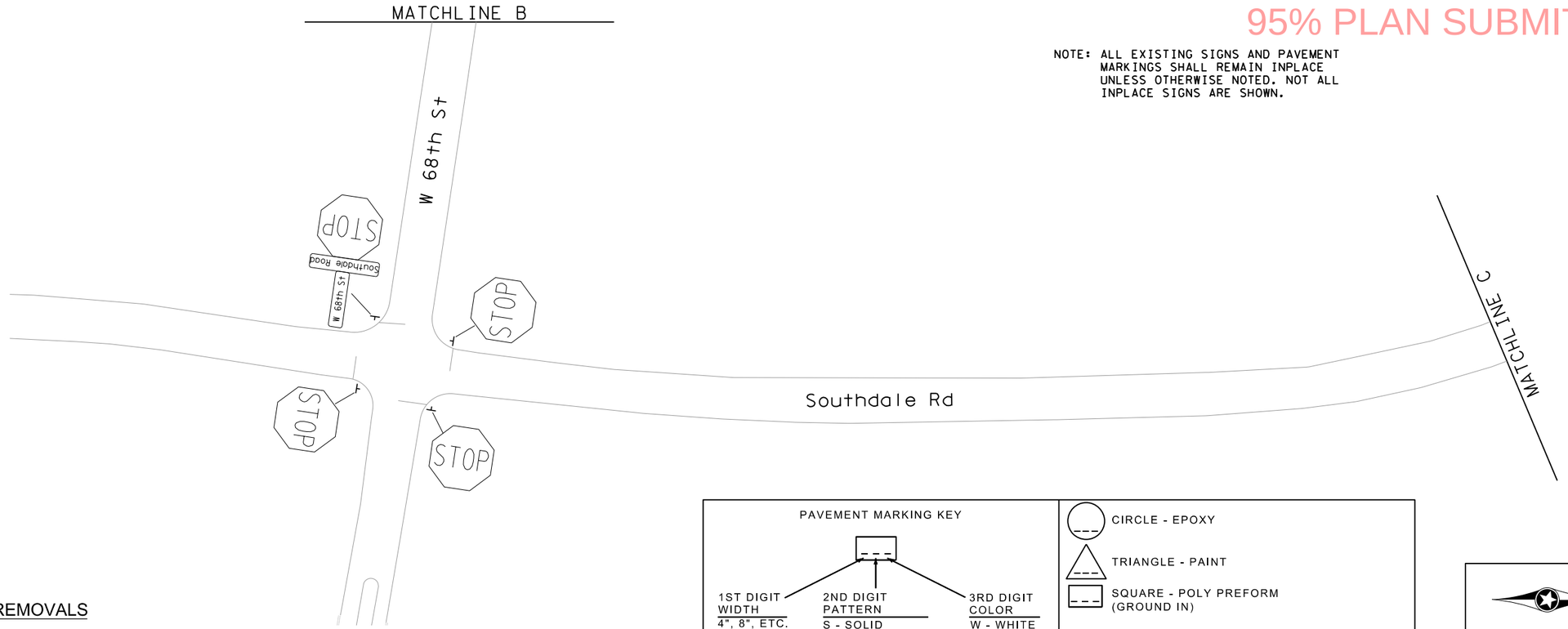
EXISTING AND REMOVALS



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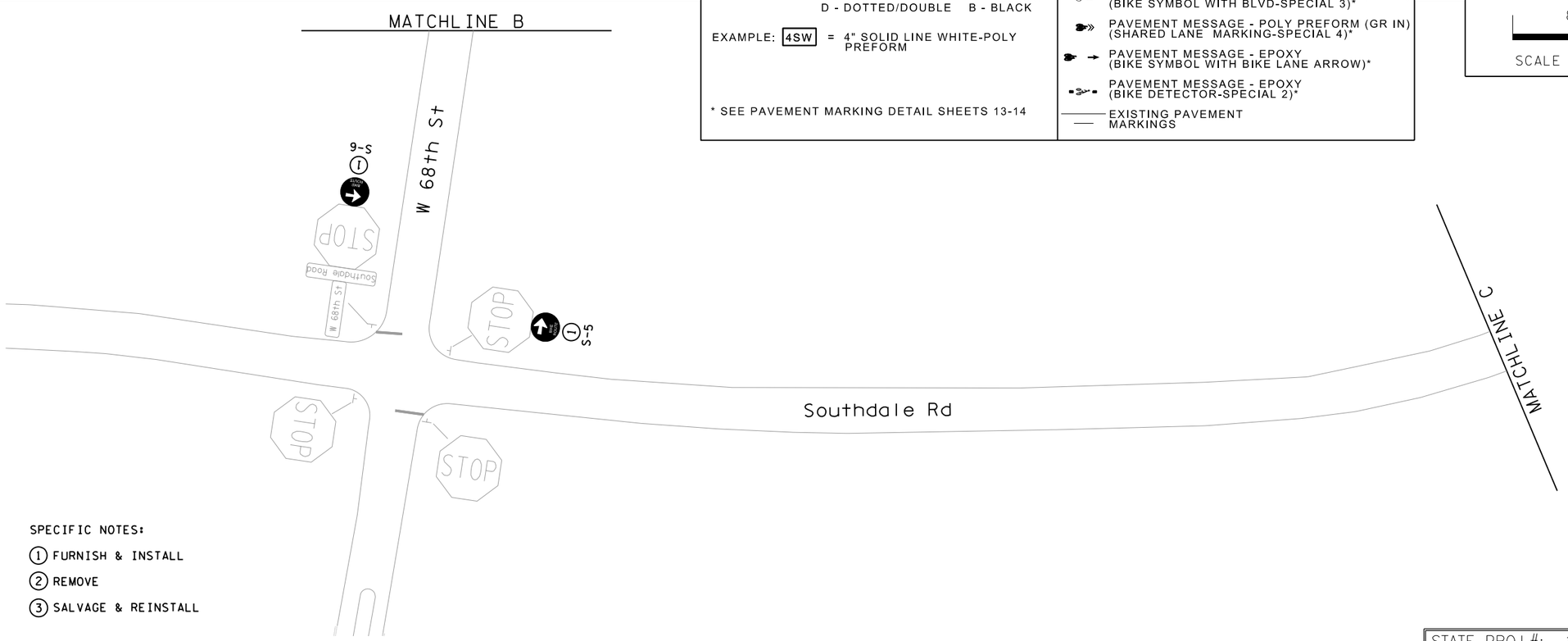

SPECIFIC NOTES:

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PAVEMENT MARKING KEY

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SCALE IN FEET

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CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

SHEET 17 OF 42

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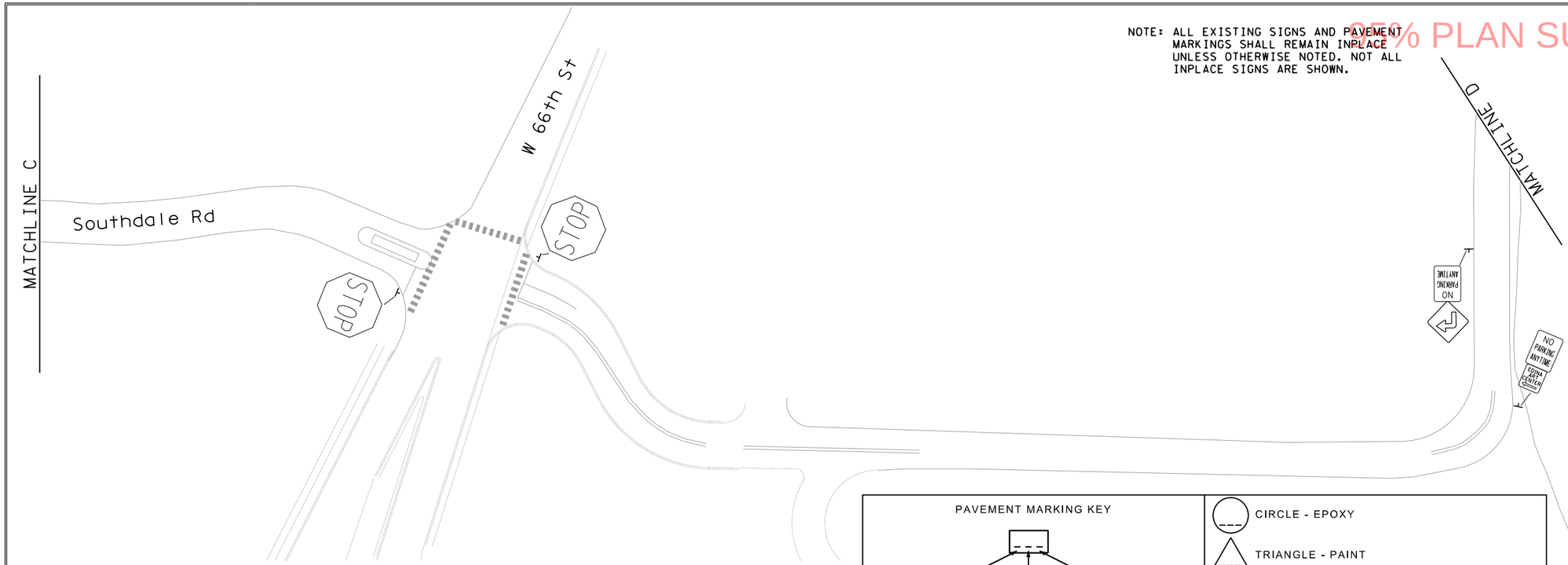
95% PLAN SUBMITTAL



EXISTING AND REMOVALS

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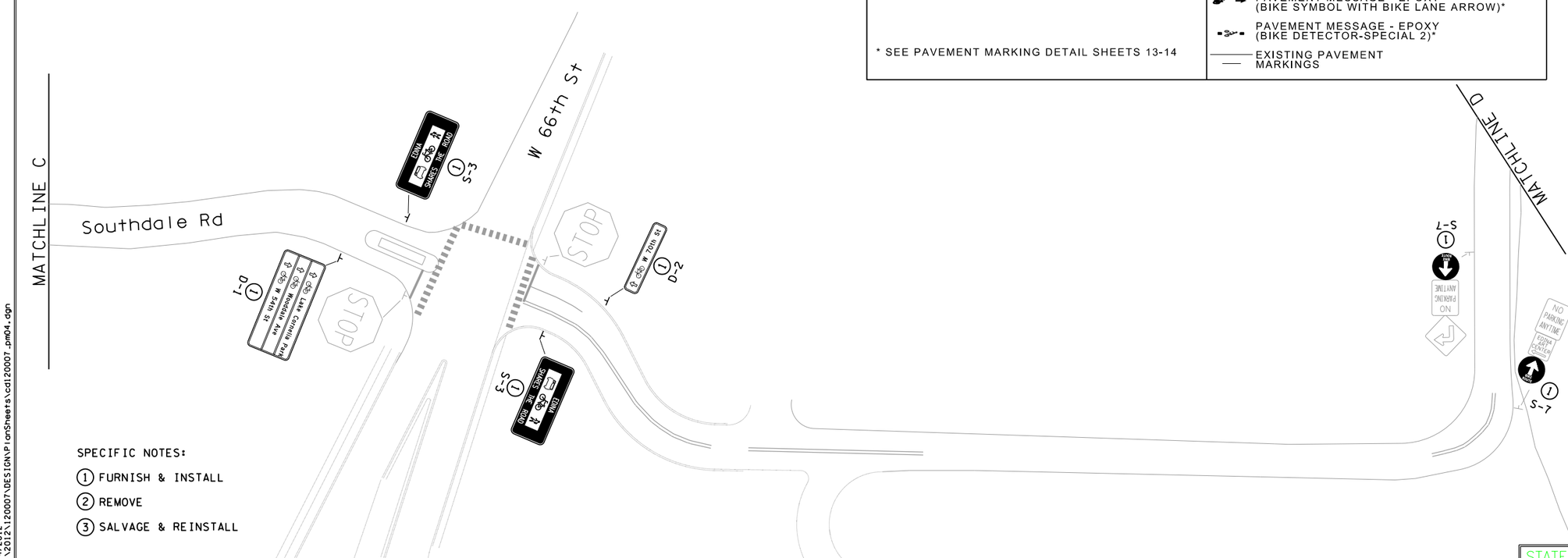
EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET

PROPOSED



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STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

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BIKE LANE IMPROVEMENTS

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IMP.# X3-XXX
CONTR.# ENG 00-X

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5/7/2012
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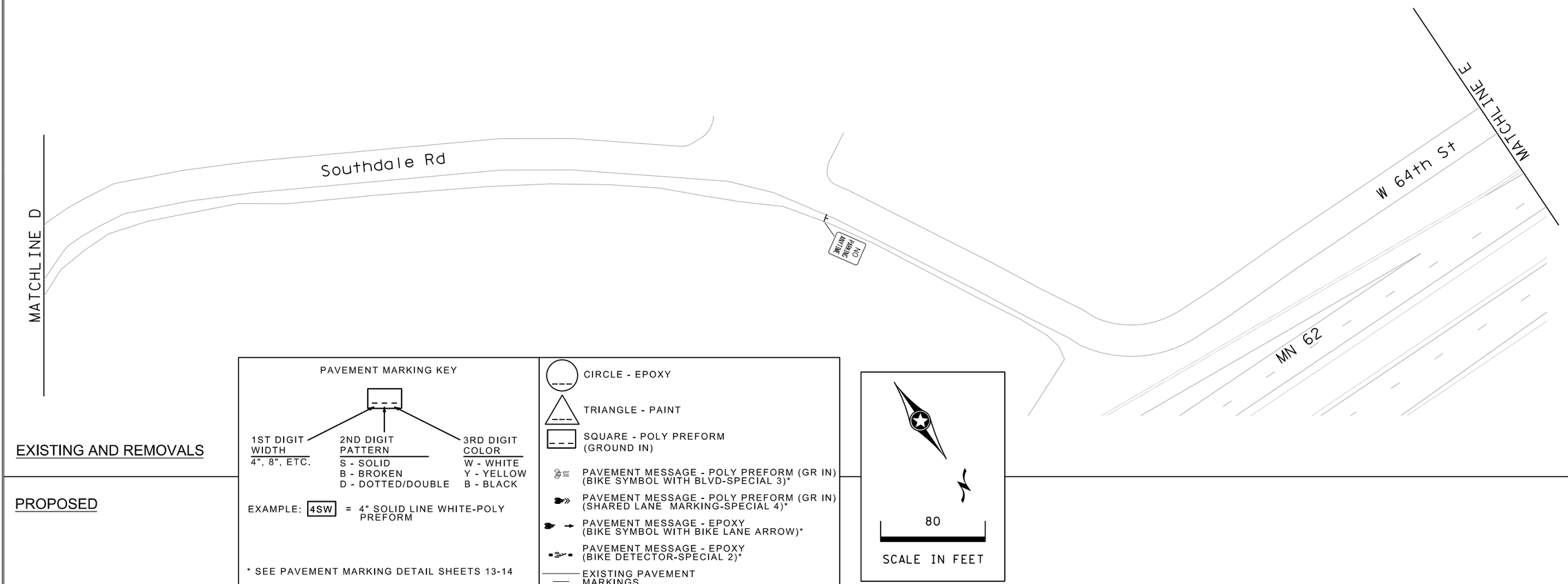
95% PLAN SUBMITTAL



EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

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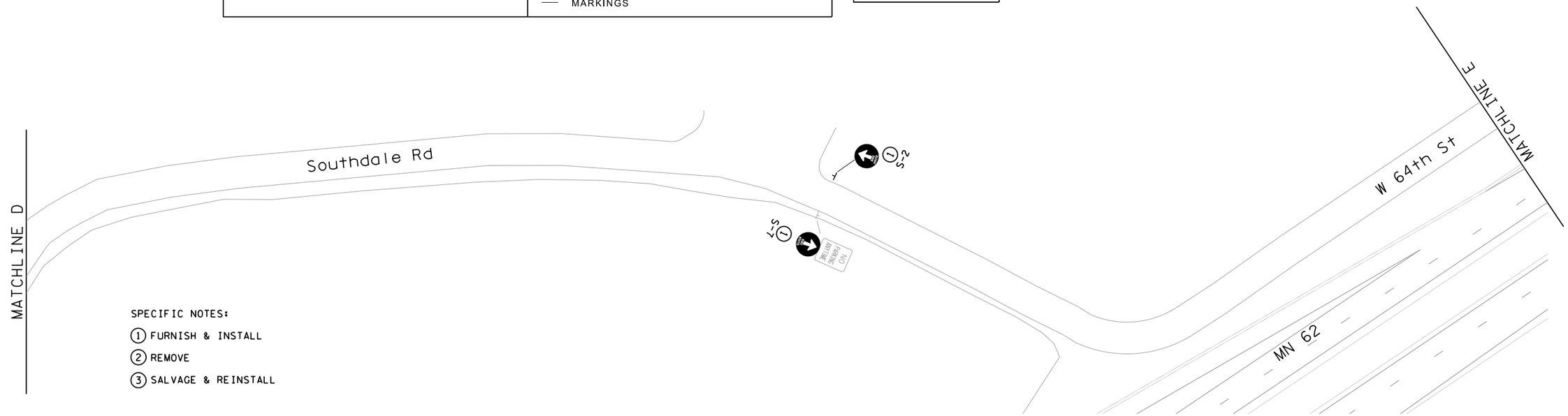
EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET



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EDINA BIKE BLVD - PHASE 1

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CONTR.# ENG 00-X

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SHEET 19 OF 42

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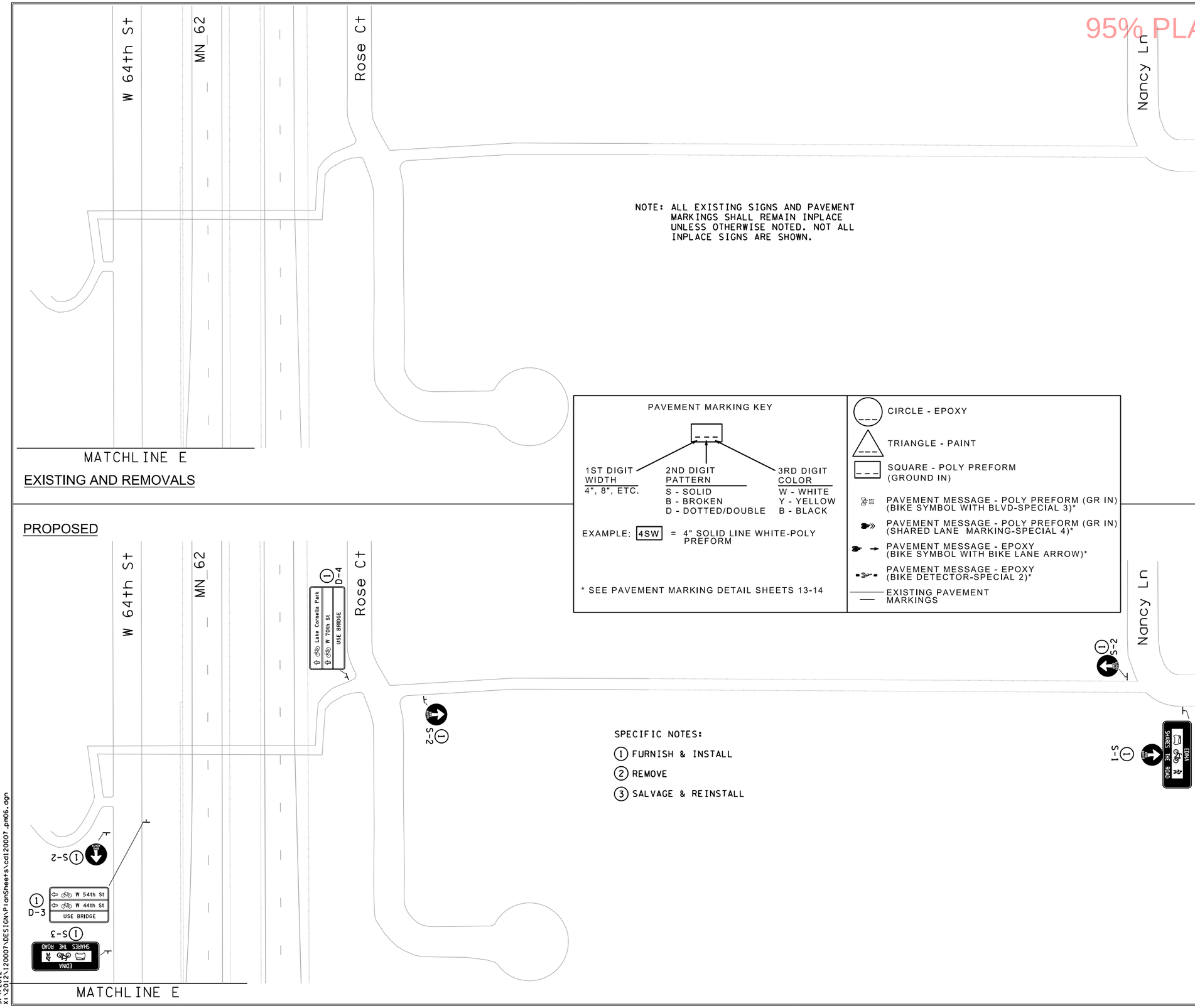
95% PLAN SUBMITTAL



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SCALE IN FEET

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EDINA BIKE BLVD - PHASE 1

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95% PLAN SUBMITTAL

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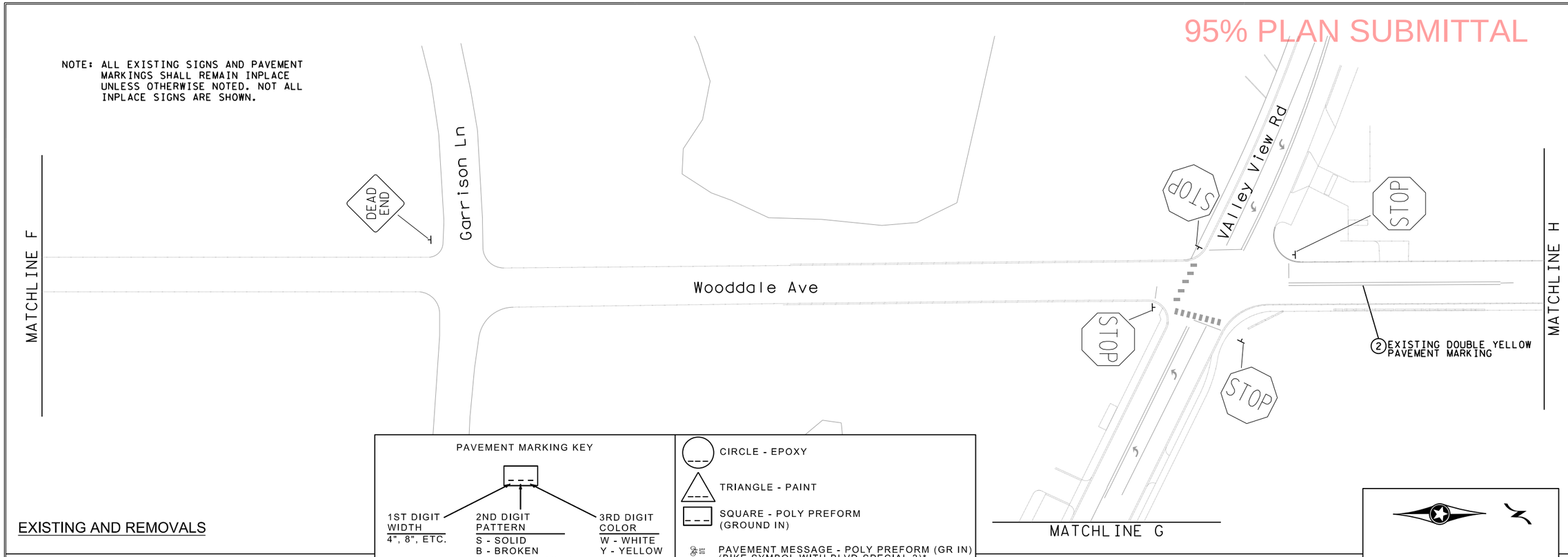
EXISTING AND REMOVALS



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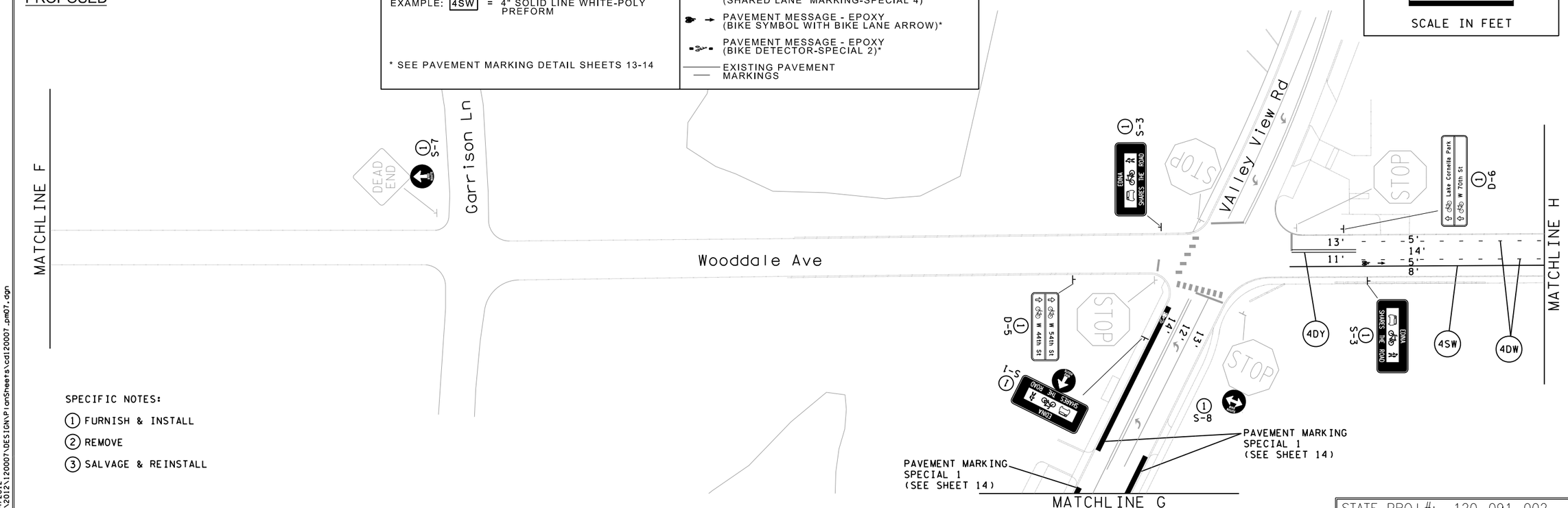
PROPOSED



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STATE PROJ.#: 120-091-002

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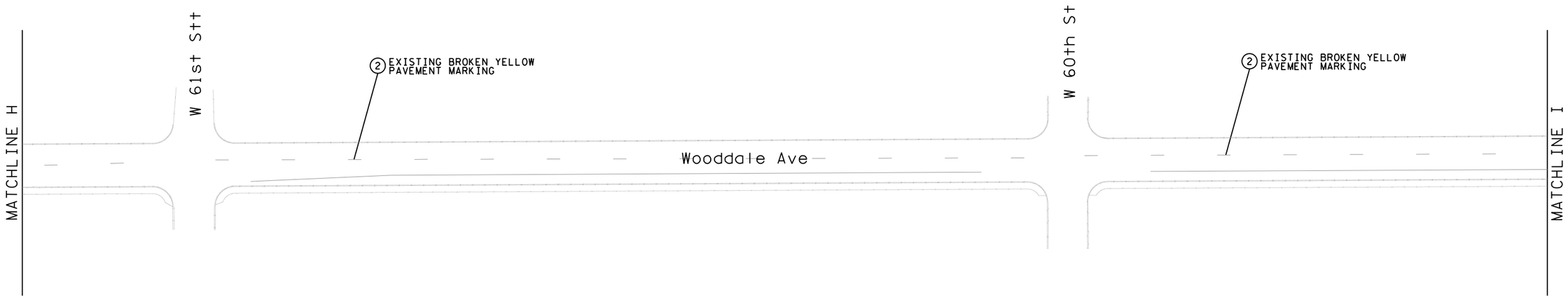

EXISTING AND REMOVALS

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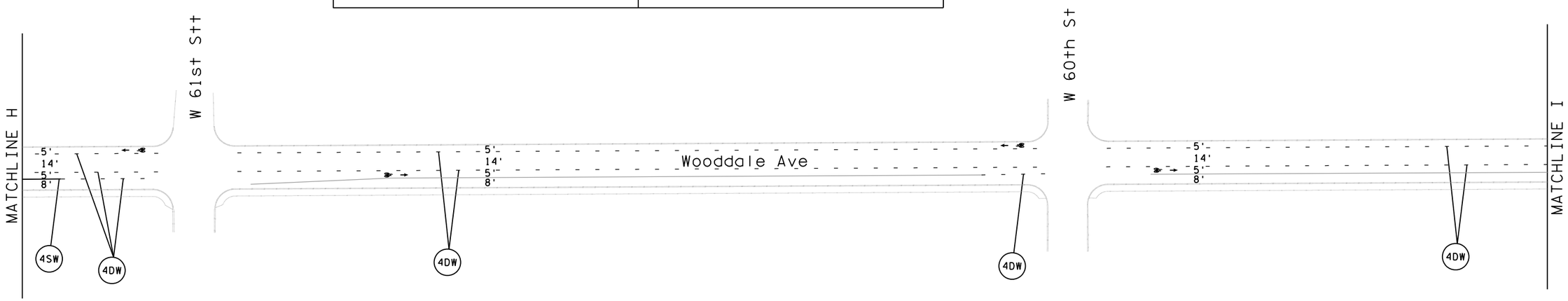
SCALE IN FEET



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NO.	DATE	BY	REMARKS / REVISIONS

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SHEET 22 OF 42

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X:\2012\120007\DESIGN\PlanSheets\cd120007_pm08.dgn

95% PLAN SUBMITTAL

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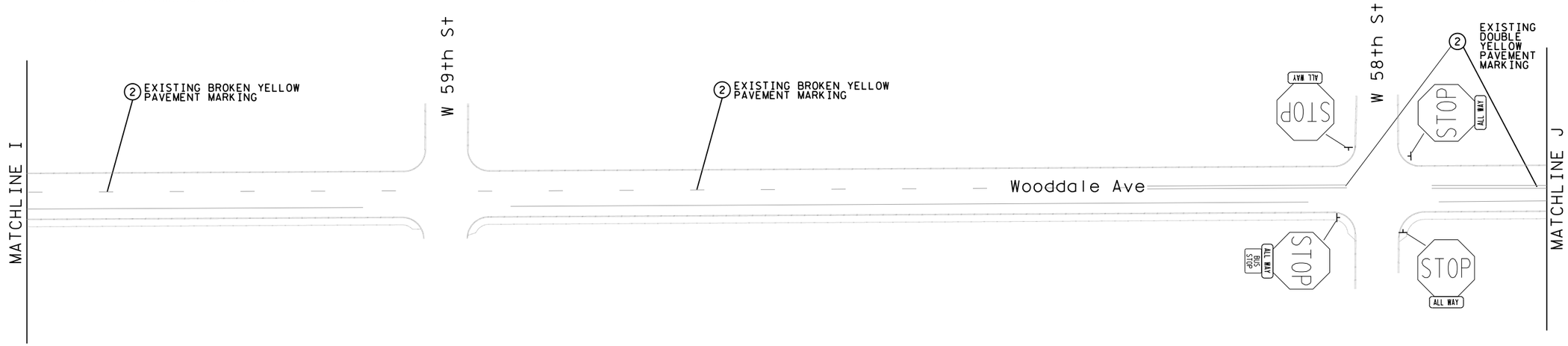

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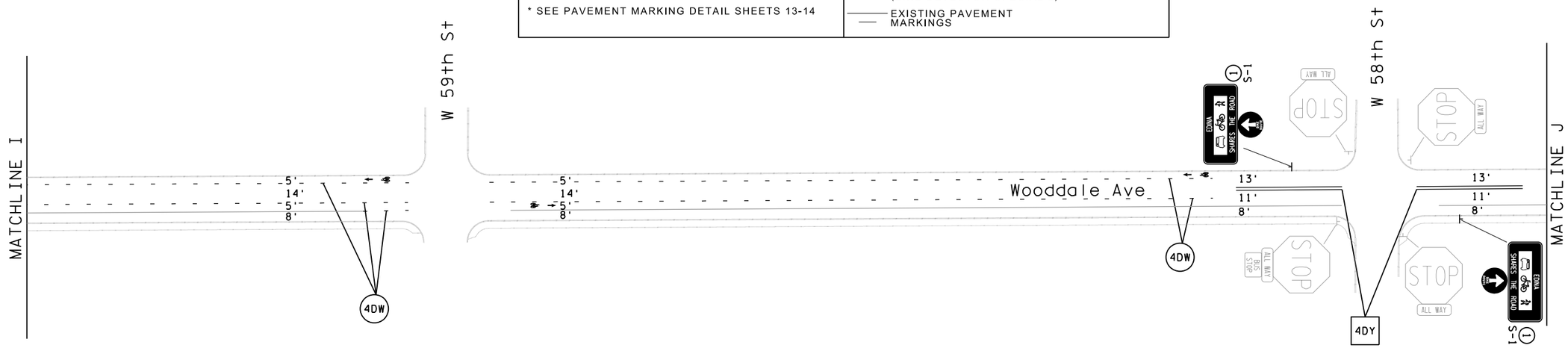
- EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET



SPECIFIC NOTES:

(1) FURNISH & INSTALL

(2) REMOVE

(3) SALVAGE & REINSTALL

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3280
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 42828

DRAWN:	KAS
CHECKED:	KAB
APPROVED:	MRA
DATE:	05/07/12
IMP.#	X3-XXX
CONTR.#	ENG 00-X

STATE PROJ.#: 120-091-002

SHEET 23 OF 42

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5/7/2012
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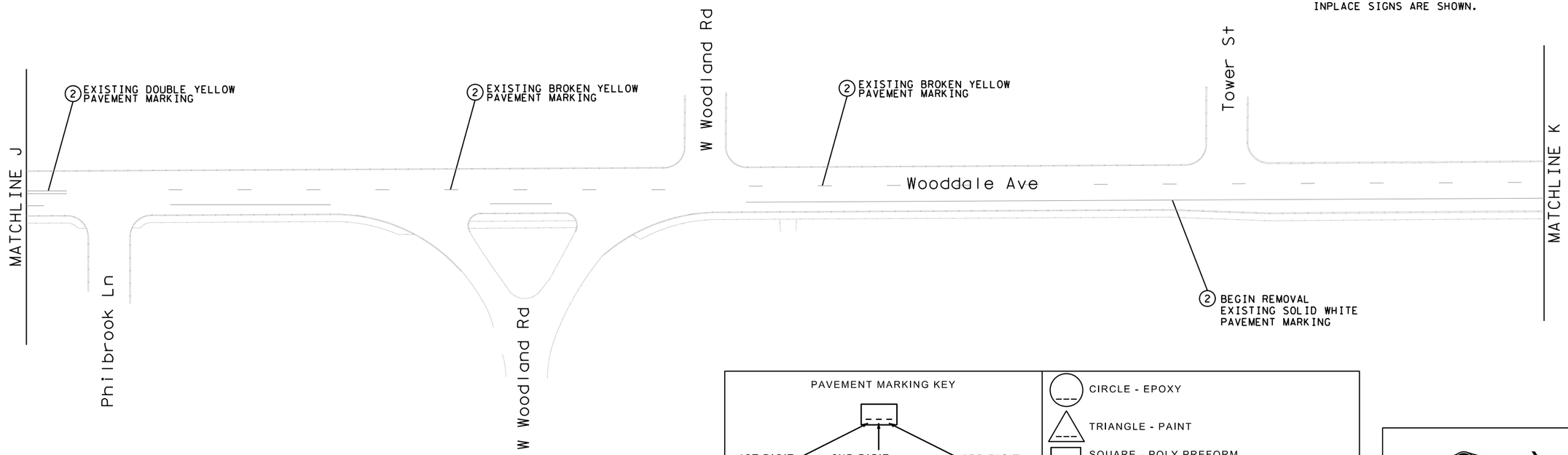
95% PLAN SUBMITTAL

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED. NOT ALL INPLACE SIGNS ARE SHOWN.



EXISTING AND REMOVALS

PAVEMENT MARKING KEY

1ST DIGIT WIDTH: 4", 8", ETC.

2ND DIGIT PATTERN: S - SOLID; B - BROKEN; D - DOTTED/DOUBLE

3RD DIGIT COLOR: W - WHITE; Y - YELLOW; B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

* SEE PAVEMENT MARKING DETAIL SHEETS 13-14

CIRCLE - EPOXY

TRIANGLE - PAINT

SQUARE - POLY PREFORM (GROUND IN)

PAVEMENT MESSAGE - POLY PREFORM (GR IN) (BIKE SYMBOL WITH BLVD-SPECIAL 3)*

PAVEMENT MESSAGE - POLY PREFORM (GR IN) (SHARED LANE MARKING-SPECIAL 4)*

PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BIKE LANE ARROW)*

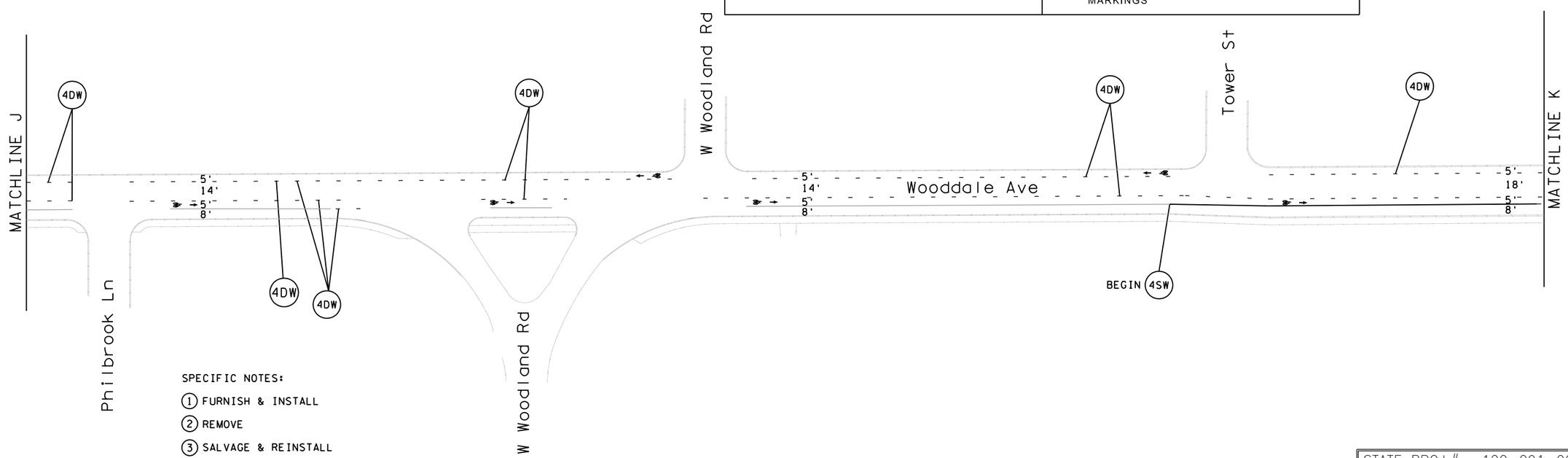
PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*

EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET

PROPOSED



SPECIFIC NOTES:

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2 REMOVE

3 SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

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DRAWN: KAS
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DATE: 05/07/12

IMP.# X3-XXX
CONTR.# ENG 00-X

SHEET 24 OF 42

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X:\2012\120007\DESIGN\PlanSheets\cd120007_pm10.dgn

95% PLAN SUBMITTAL

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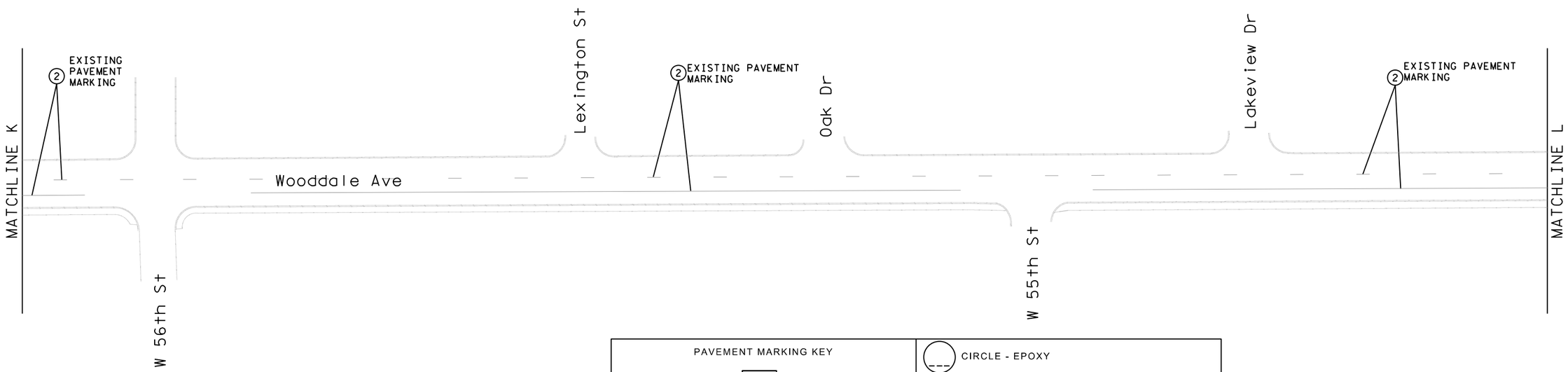
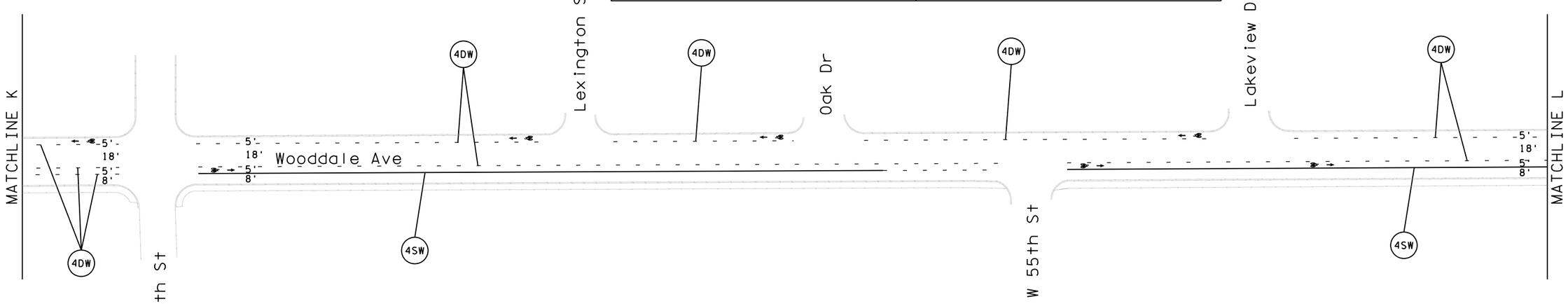


EXISTING AND REMOVALS

PROPOSED



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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SCALE IN FEET

NO.	DATE	BY	REMARKS
			REVISIONS

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IMP.# X3-XXX
CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

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95% PLAN SUBMITTAL

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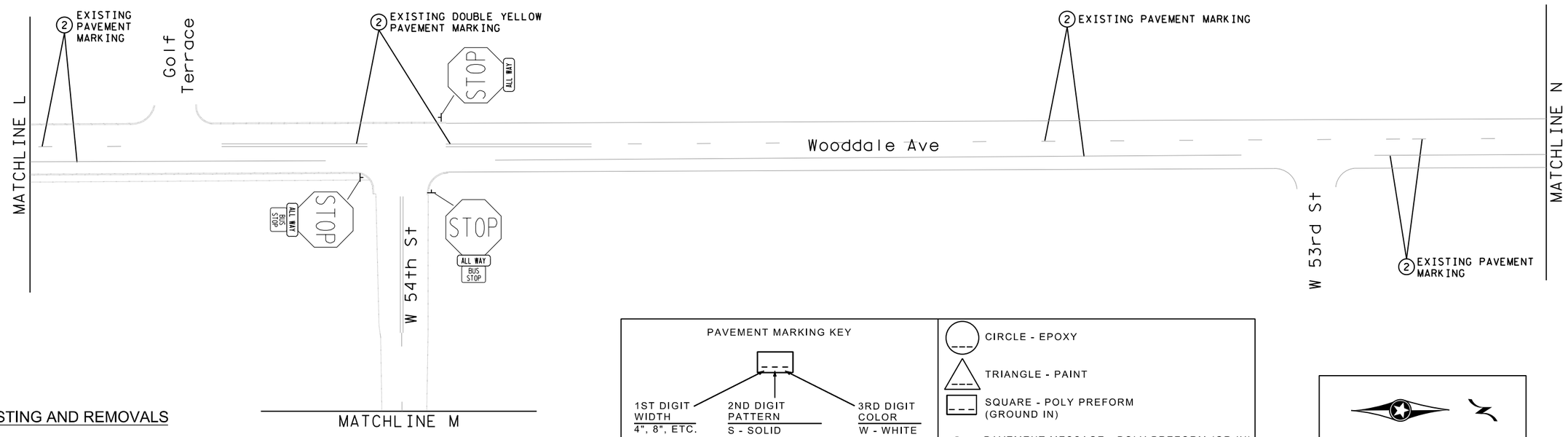
EXISTING AND REMOVALS



PAVEMENT MARKING KEY

1ST DIGIT WIDTH: 4", 8", ETC.

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- PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*
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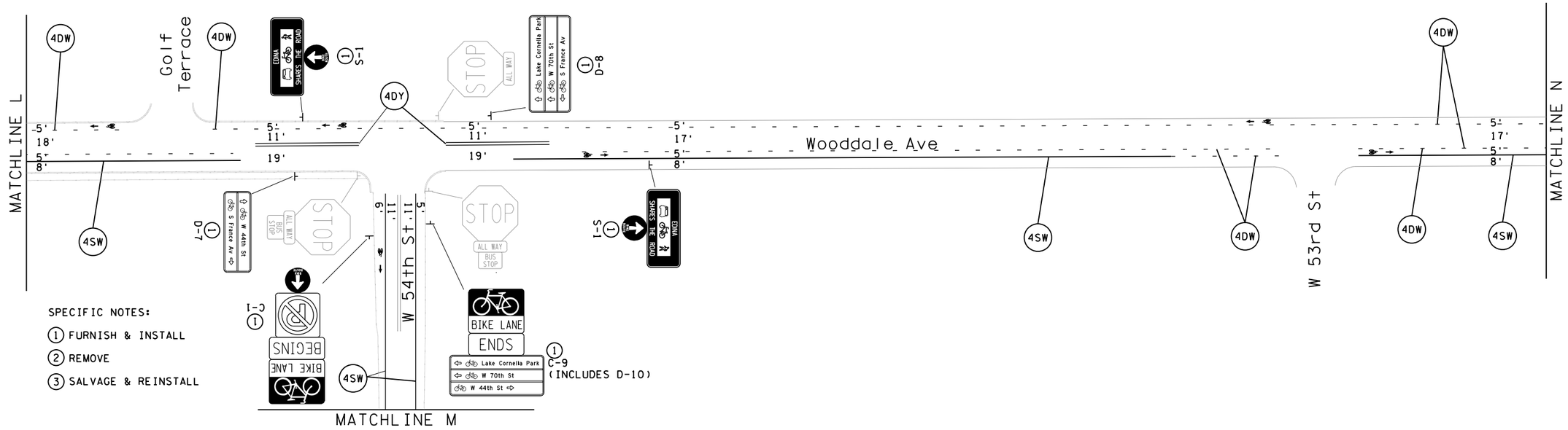
80

SCALE IN FEET

PROPOSED



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(3) SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

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BIKE LANE IMPROVEMENTS

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APPROVED: MRA
DATE: 05/07/12

IMP.# X3-XXX
CONTR.# ENG 00-X

SHEET 26 OF 42

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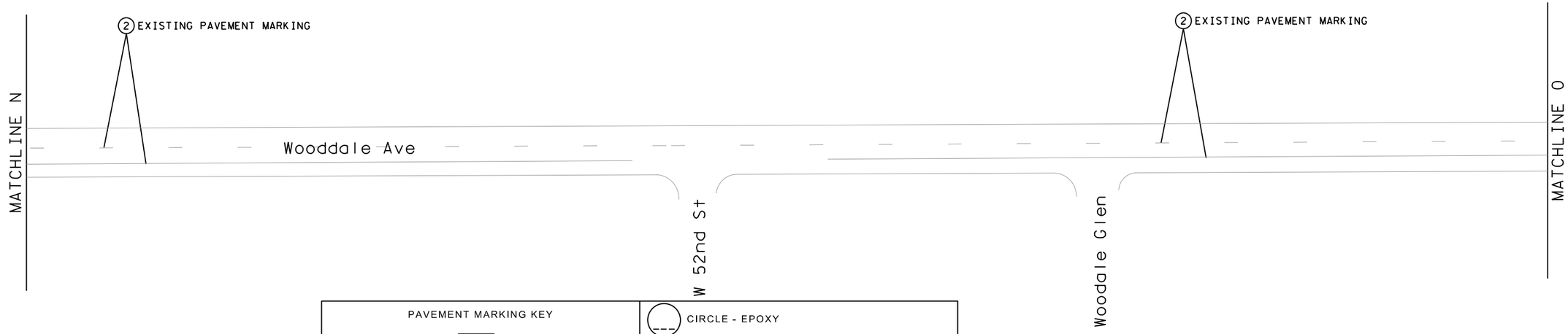
95% PLAN SUBMITTAL

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED. NOT ALL INPLACE SIGNS ARE SHOWN.



EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

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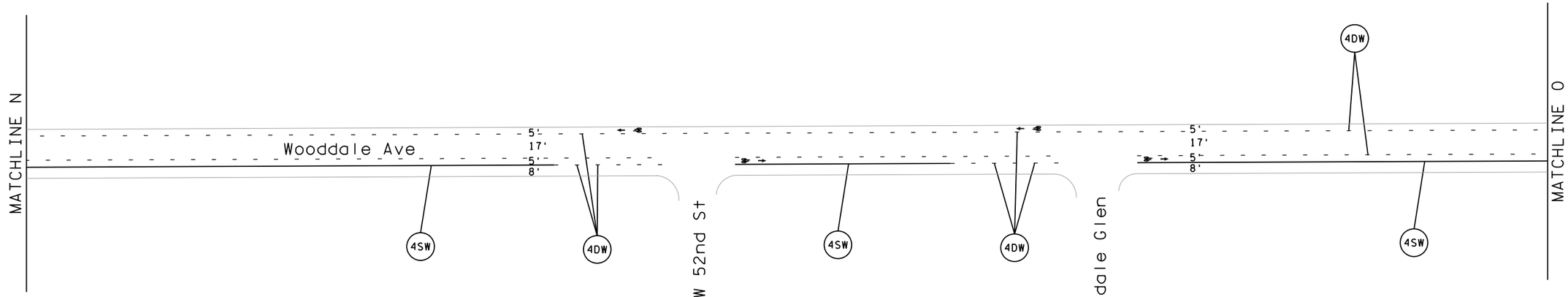
PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*

EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET



SPECIFIC NOTES:

1. FURNISH & INSTALL
2. REMOVE
3. SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS
			REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
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DATE: 05/07/12 LIC. NO. 42828

DRAWN: KAS
CHECKED: KAB
APPROVED: MRA
DATE: 05/07/12

IMP.# X3-XXX
CONTR.# ENG 00-X

SHEET 27 OF 42

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5/7/2012
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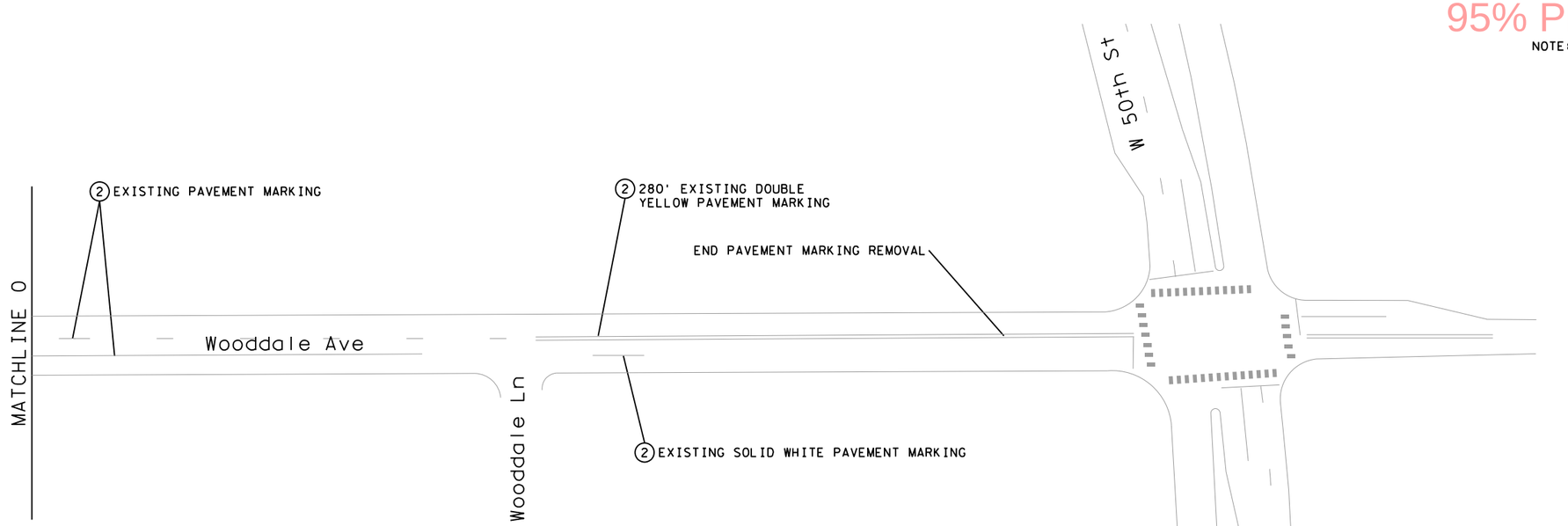
95% PLAN SUBMITTAL

NOTE: ALL EXISTING SIGNS AND PAVEMENT MARKINGS SHALL REMAIN INPLACE UNLESS OTHERWISE NOTED. NOT ALL INPLACE SIGNS ARE SHOWN.

EXISTING AND REMOVALS



PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

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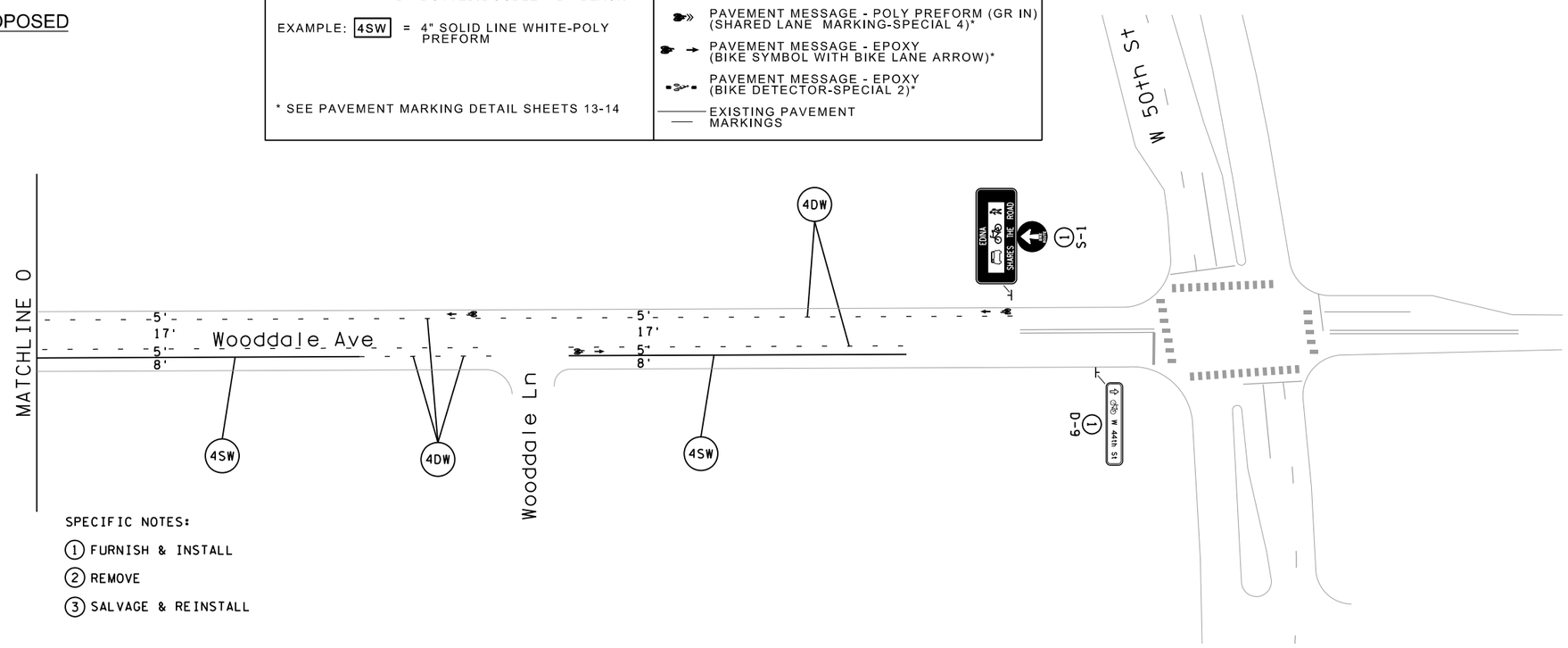
- EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET

PROPOSED



SPECIFIC NOTES:

(1) FURNISH & INSTALL

(2) REMOVE

(3) SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
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DATE: 05/07/12 LIC. NO. 42828

DRAWN: KAS
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CONTR.# ENG 00-X

SHEET 28 OF 42

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95% PLAN SUBMITTAL

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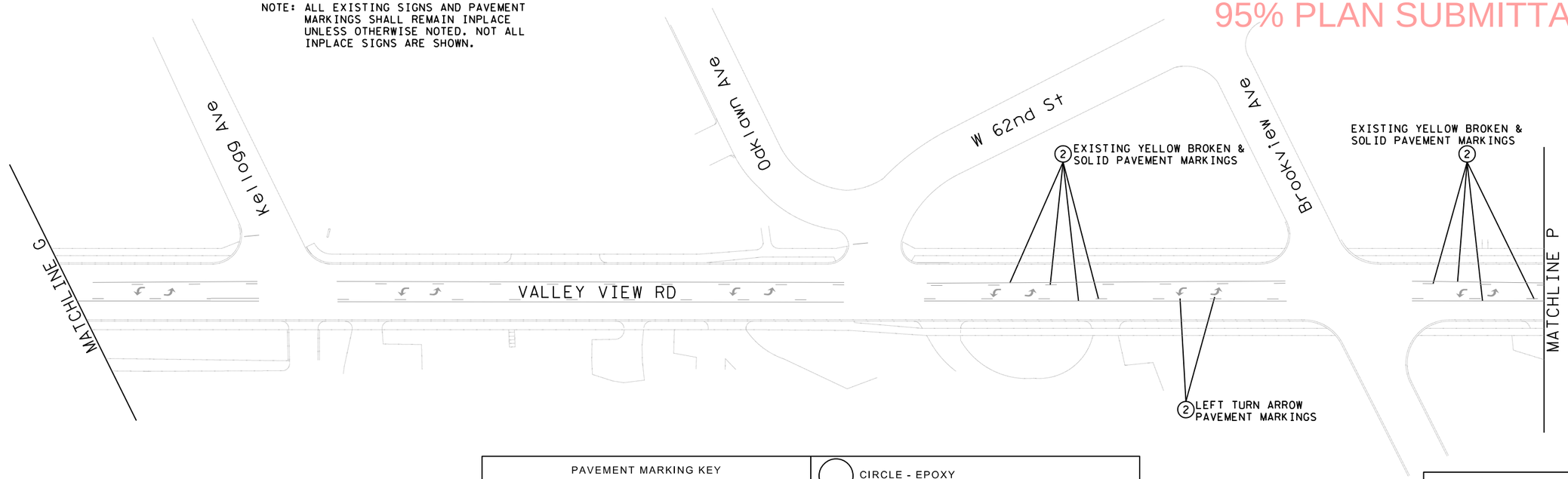

EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH: 4", 8", ETC.

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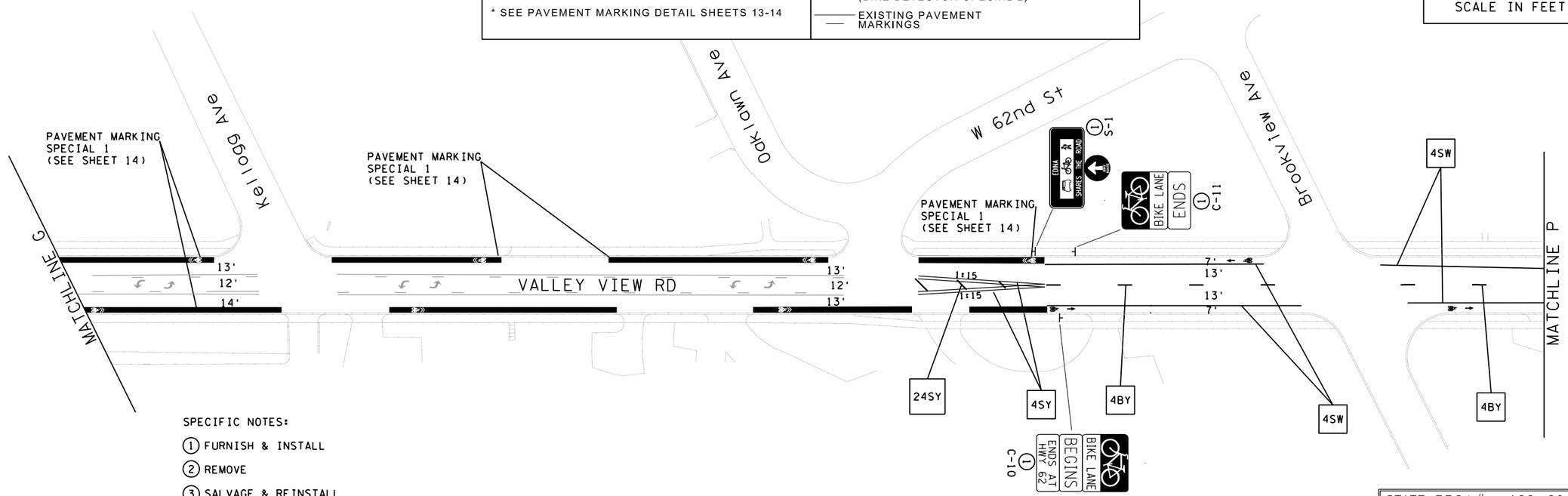
EXISTING PAVEMENT MARKINGS

80

SCALE IN FEET



SPECIFIC NOTES:

1. FURNISH & INSTALL
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STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

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CONTR.# ENG 00-X

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95% PLAN SUBMITTAL

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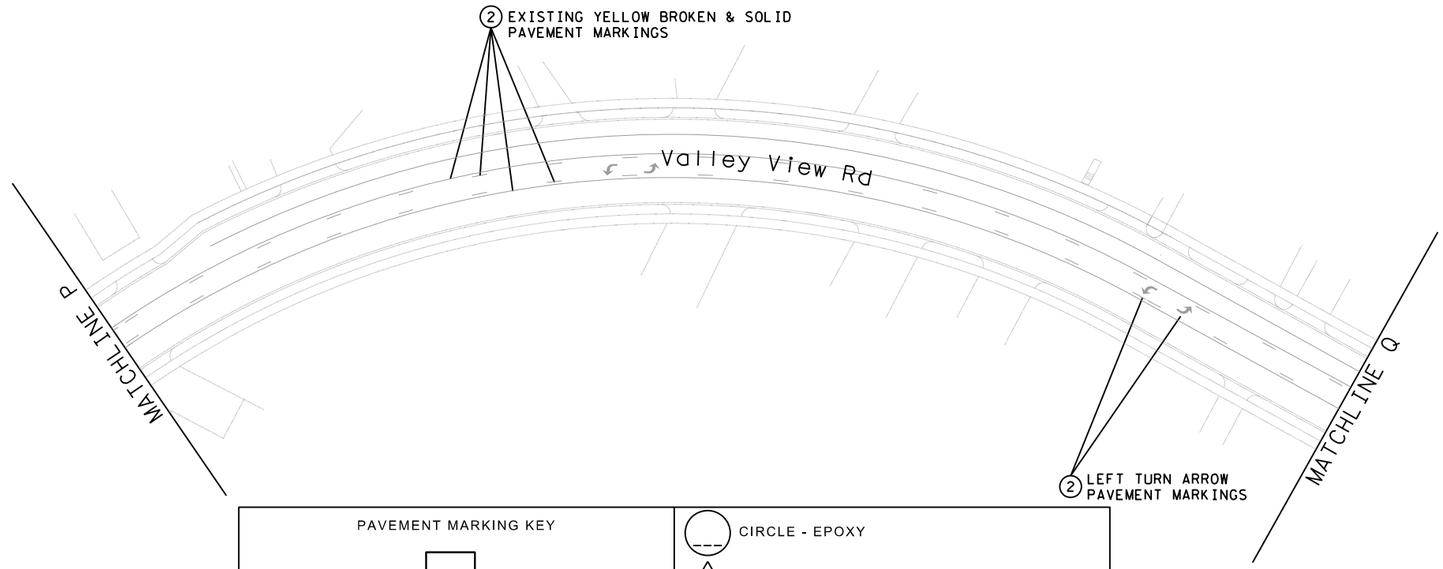

EXISTING AND REMOVALS

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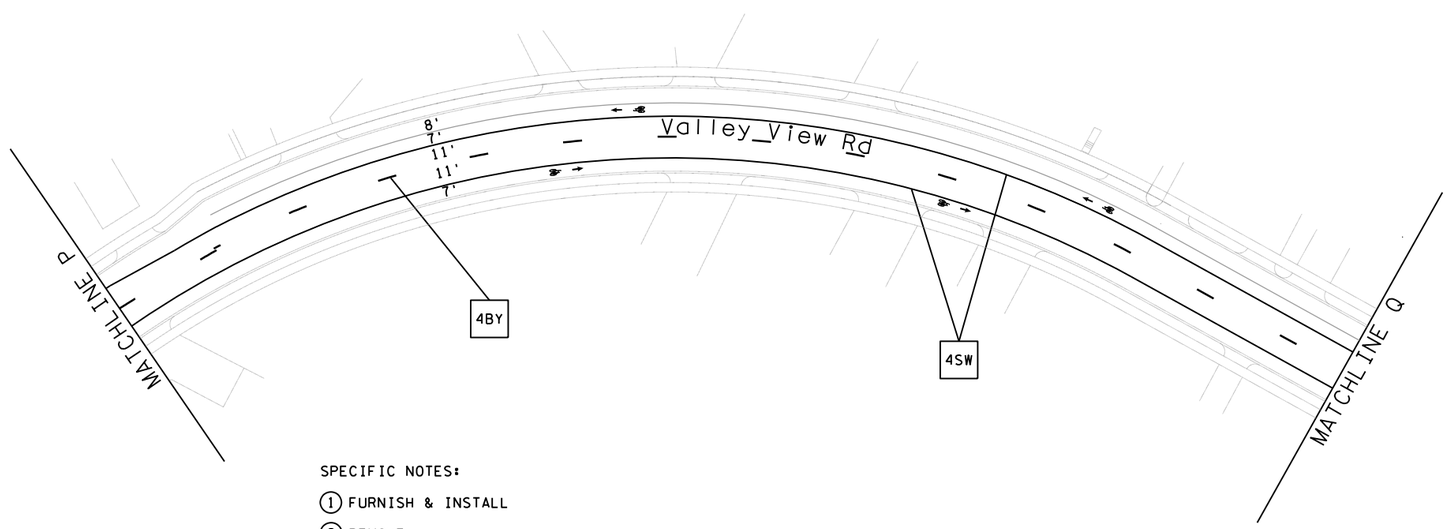
SCALE IN FEET



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EDINA BIKE BLVD - PHASE 1

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X:\2012\120007\DESIGN\PlanSheets\cd120007_pm16.dgn

95% PLAN SUBMITTAL

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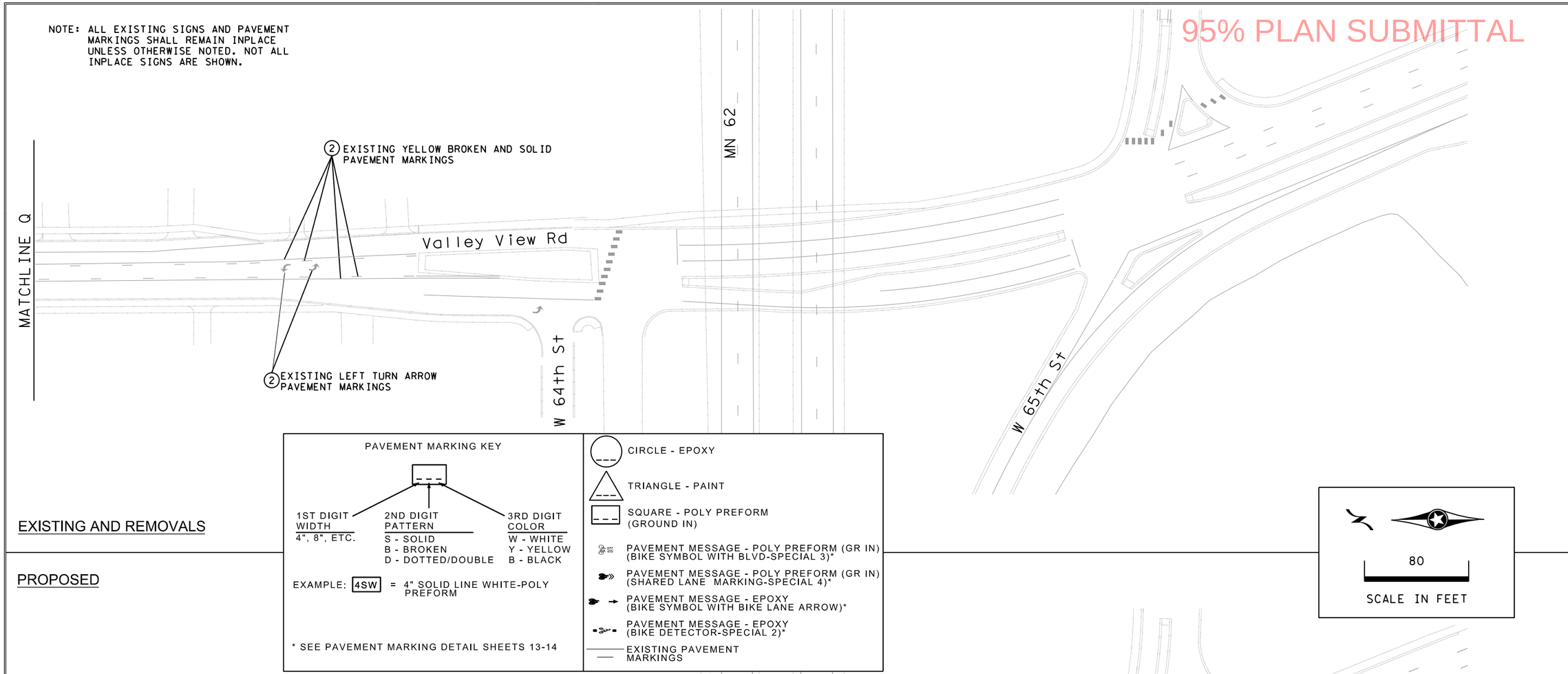

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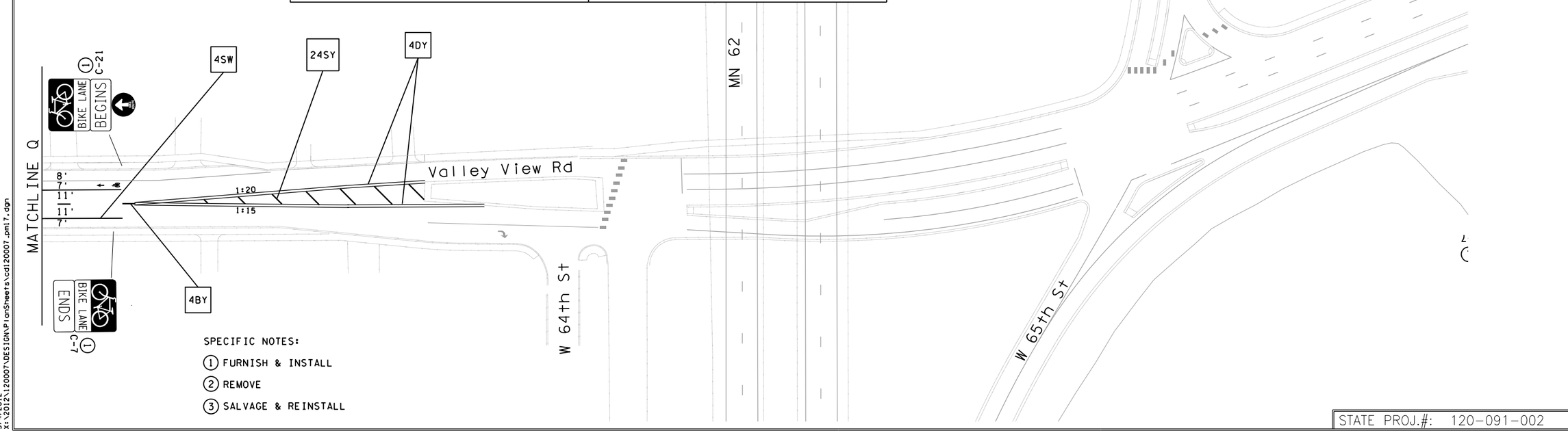

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STATE PROJ.#: 120-091-002

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(612)758-3099 FAX

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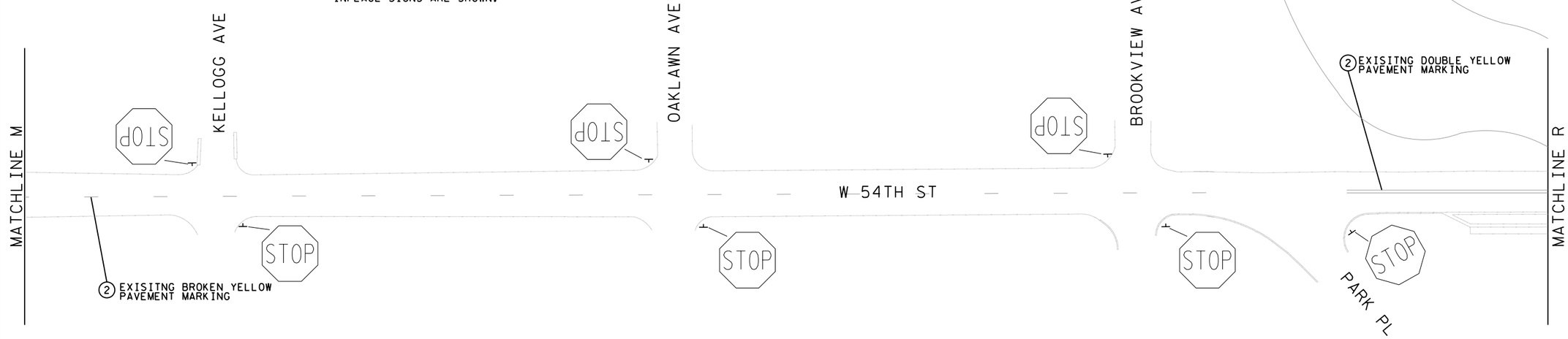


EXISTING AND REMOVALS

PROPOSED

PAVEMENT MARKING KEY

1ST DIGIT WIDTH	2ND DIGIT PATTERN	3RD DIGIT COLOR
4", 8", ETC.	S - SOLID B - BROKEN D - DOTTED/DOUBLE	W - WHITE Y - YELLOW B - BLACK

EXAMPLE: 4SW = 4" SOLID LINE WHITE-POLY PREFORM

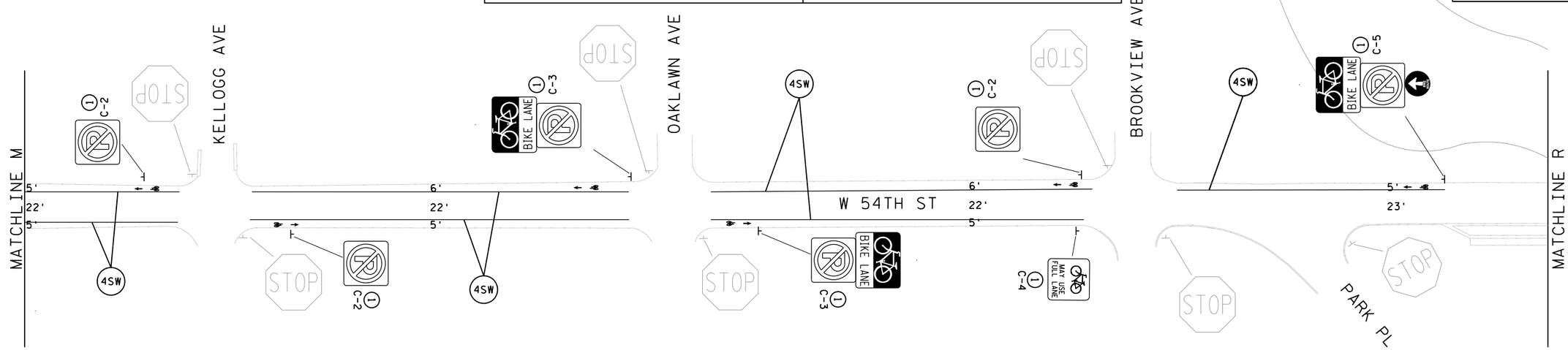
* SEE PAVEMENT MARKING DETAIL SHEETS 13-14

- CIRCLE - EPOXY
- TRIANGLE - PAINT
- SQUARE - POLY PREFORM (GROUND IN)
- PAVEMENT MESSAGE - POLY PREFORM (GR IN) (BIKE SYMBOL WITH BLVD-SPECIAL 3)*
- PAVEMENT MESSAGE - POLY PREFORM (GR IN) (SHARED LANE MARKING-SPECIAL 4)*
- PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BIKE LANE ARROW)*
- PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*
- EXISTING PAVEMENT MARKINGS

N

80

SCALE IN FEET



SPECIFIC NOTES:

(1) FURNISH & INSTALL

(2) REMOVE

(3) SALVAGE & REINSTALL

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
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SHEET 32 OF 42

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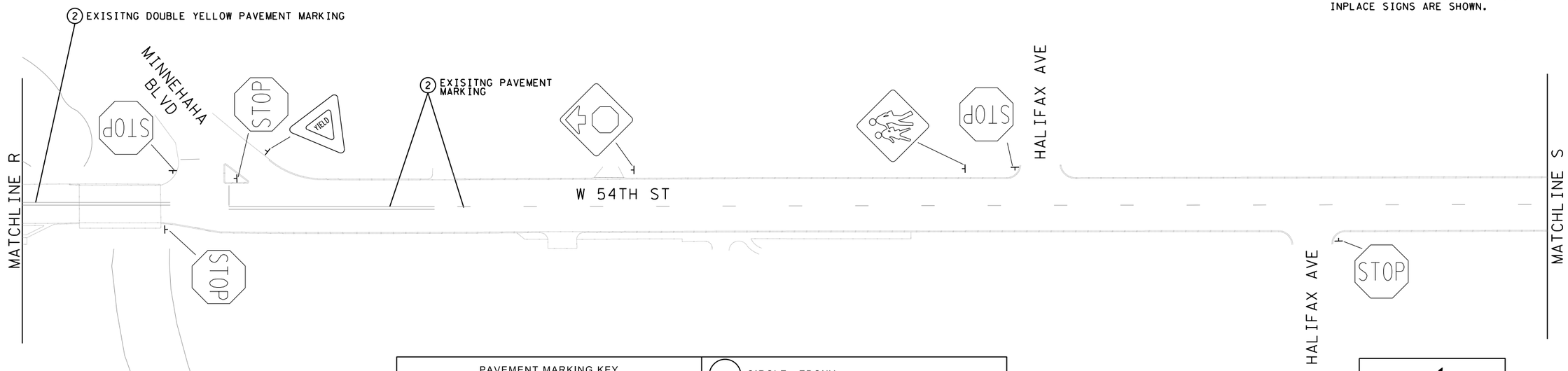

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PAVEMENT MESSAGE - EPOXY (BIKE SYMBOL WITH BIKE LANE ARROW)*

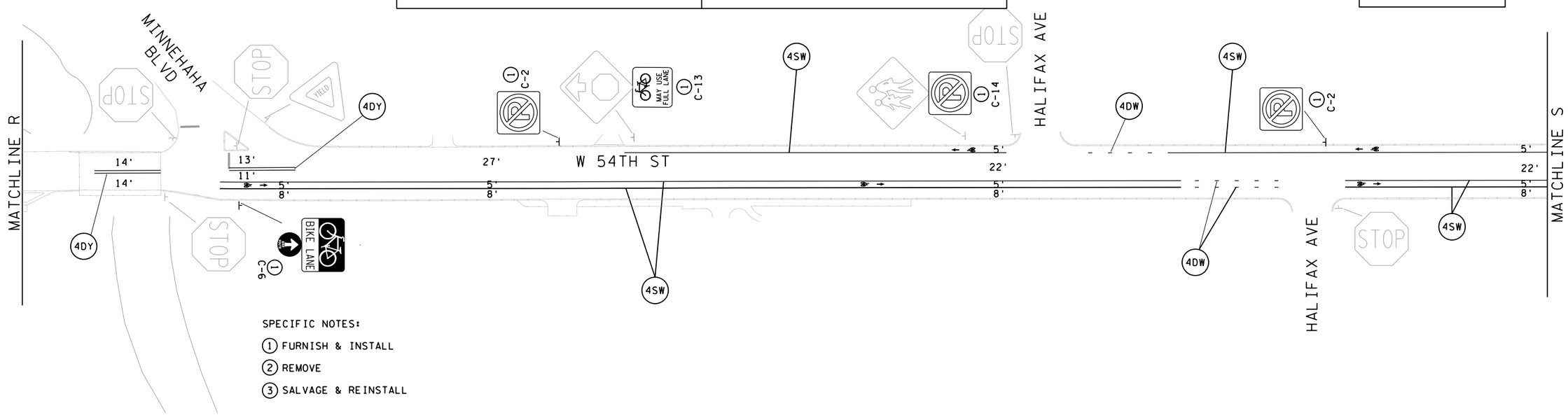
PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*

EXISTING PAVEMENT MARKINGS

N

80

SCALE IN FEET



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STATE PROJ.#: 120-091-002

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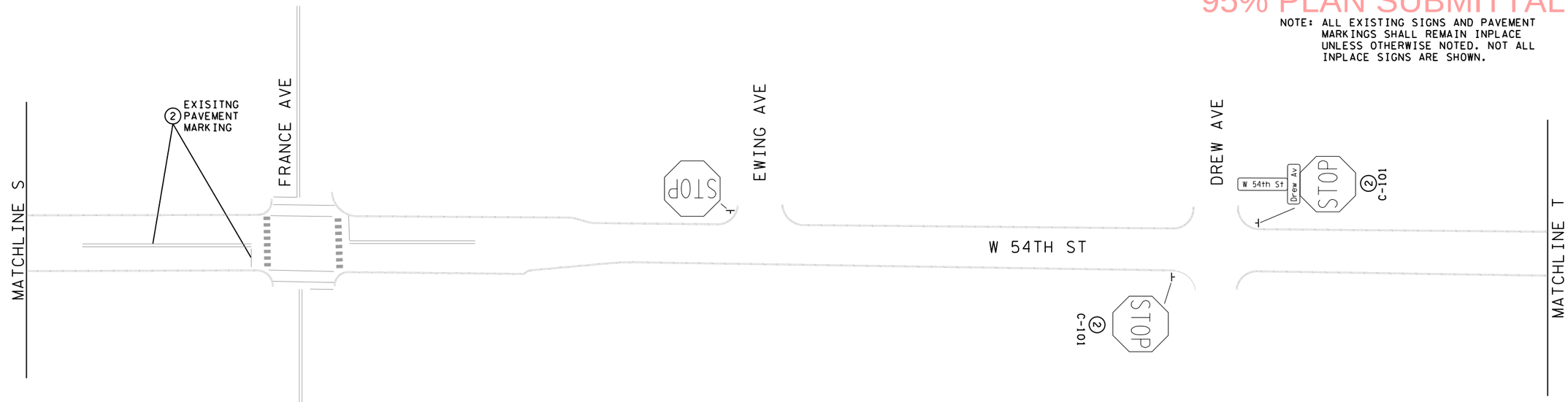

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PAVEMENT MESSAGE - EPOXY (BIKE DETECTOR-SPECIAL 2)*

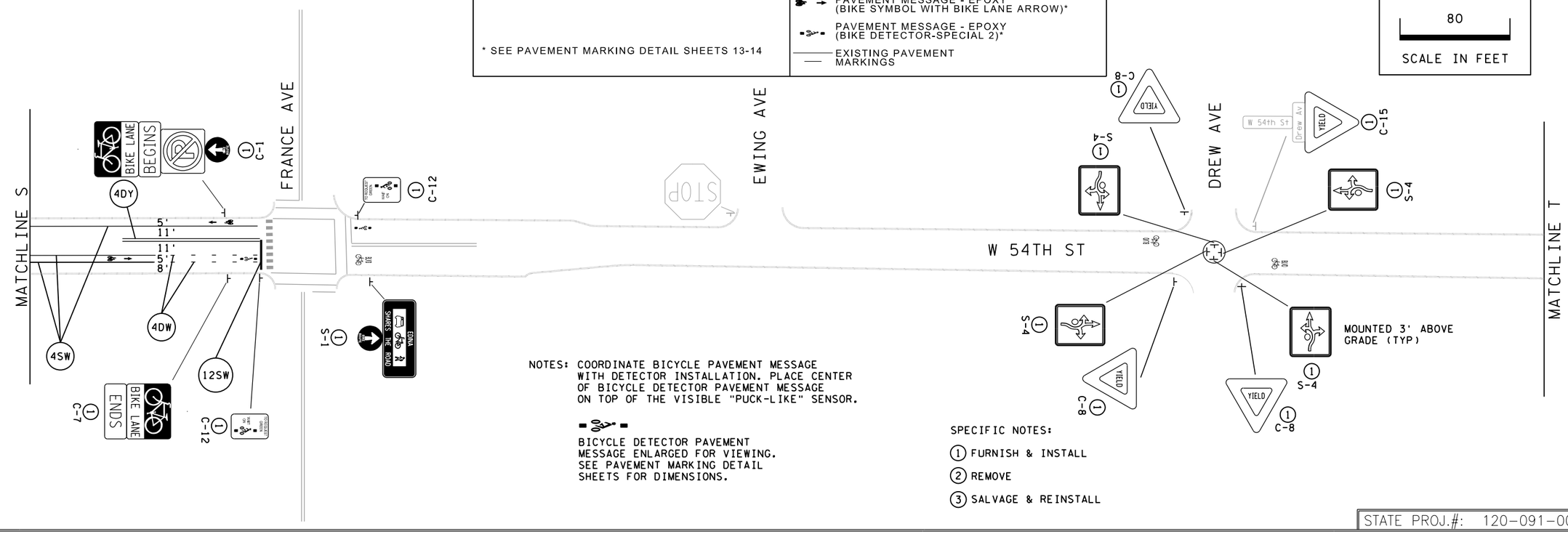
EXISTING PAVEMENT MARKINGS

N

80

SCALE IN FEET

PROPOSED



NOTES: COORDINATE BICYCLE PAVEMENT MESSAGE WITH DETECTOR INSTALLATION. PLACE CENTER OF BICYCLE DETECTOR PAVEMENT MESSAGE ON TOP OF THE VISIBLE "PUCK-LIKE" SENSOR.

BICYCLE DETECTOR PAVEMENT MESSAGE ENLARGED FOR VIEWING. SEE PAVEMENT MARKING DETAIL SHEETS FOR DIMENSIONS.

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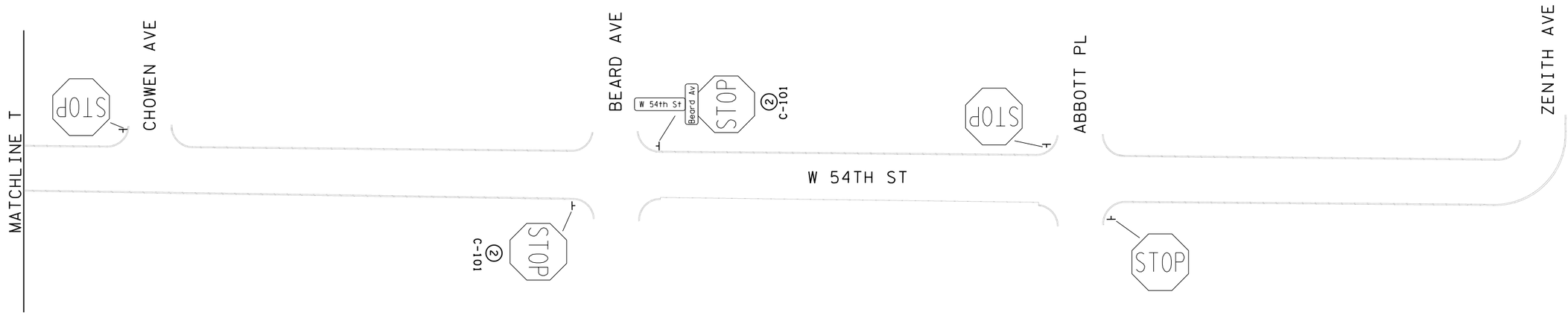

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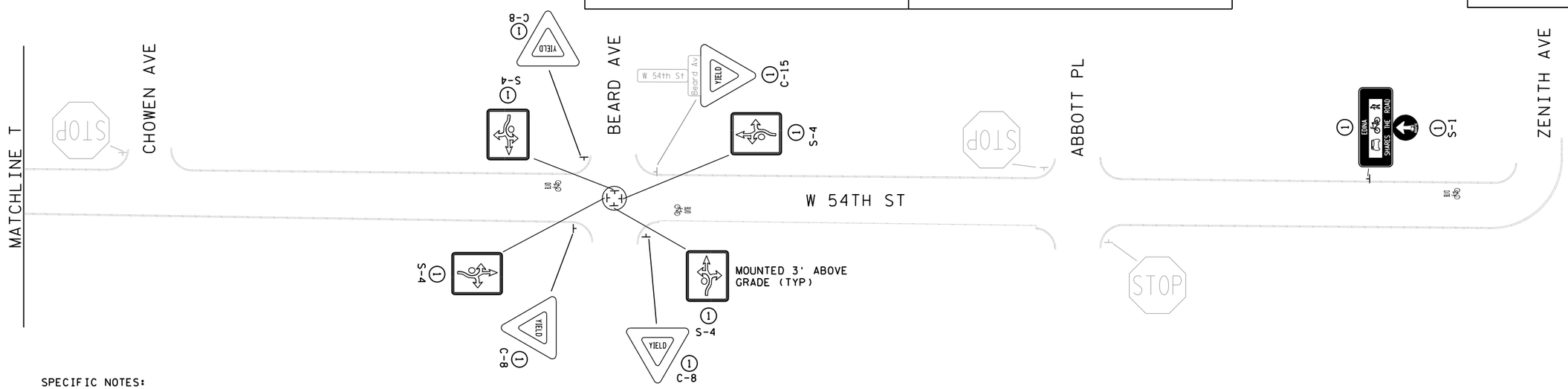
EXISTING PAVEMENT MARKINGS

N

80

SCALE IN FEET



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EDINA BIKE BLVD - PHASE 1

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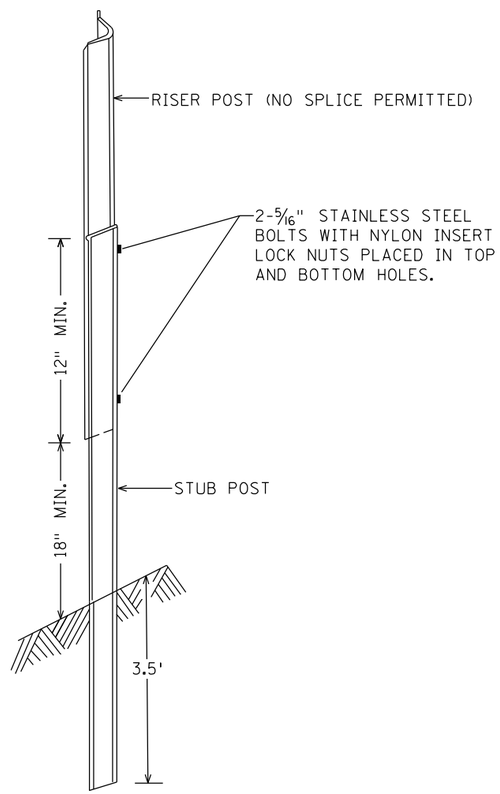
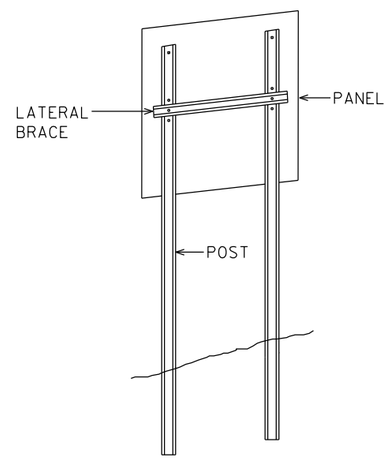
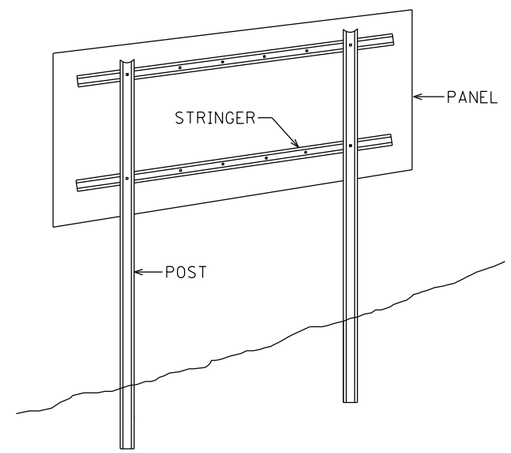
TYPE C & D POST



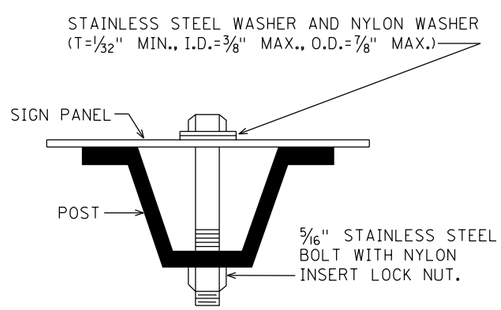
U POST SPLICE



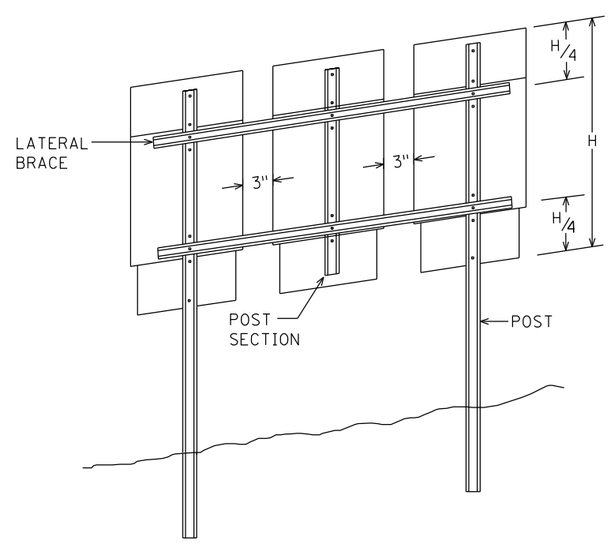
TYPICAL TYPE C INSTALLATION



TYPICAL TYPE D INSTALLATION



U POST MOUNTING
TYPE C SIGNS



MODIFIED TYPE C INSTALLATION

NOTES:

1. USE 3 LB/FT STUB POSTS, RISER POSTS, STRINGERS, KNEE BRACES, LATERAL BRACES AND KNEE BRACE STUB POSTS. ALL SHALL CONFORM TO MN/DOT 3401.
2. FOR TYPE D SIGN POSTS LENGTHS AND SPACINGS, SEE SIGN DATA SHEET.
3. TYPE D SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 24" MAXIMUM INTERVALS IN ACCORDANCE WITH THE TYPE D STRINGER AND PANEL-JOINT DETAIL (SEE STANDARD SIGNS MANUAL).
4. MOUNTING (PUNCH CODE) FOR TYPE C SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
5. ALL RISER (VERTICAL) U POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7' LONG.
6. USE STAINLESS STEEL 5/16" BOLTS, WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
7. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
8. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEAST 3½'.
9. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MN/DOT 3306 AND GALVANIZED IN ACCORDANCE WITH MN/DOT 3394.
10. COLLARS SHALL BE USED TO SHIM OVERLAYS AND DEMOUNTABLE LEGEND AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MN/DOT 3352.2A5.
11. 2 POST TYPE C SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE. INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 60" OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
12. WHERE 2 SINGLE POST TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS.
13. WHERE 3 OR MORE TYPE C SIGNS ARE INSTALLED SIDE BY SIDE, THEY SHALL BE REINFORCED LATERALLY BY AT LEAST 2 BRACES, BOLTED AT EACH POST AND POST SECTION AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN MODIFIED TYPE C INSTALLATION.

TYPE C & D SIGN
STRUCTURAL DETAILS

Sheet 1 of 3

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EDINA BIKE BLVD - PHASE 1
SIGN DETAILS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
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Fax: 952-826-0392

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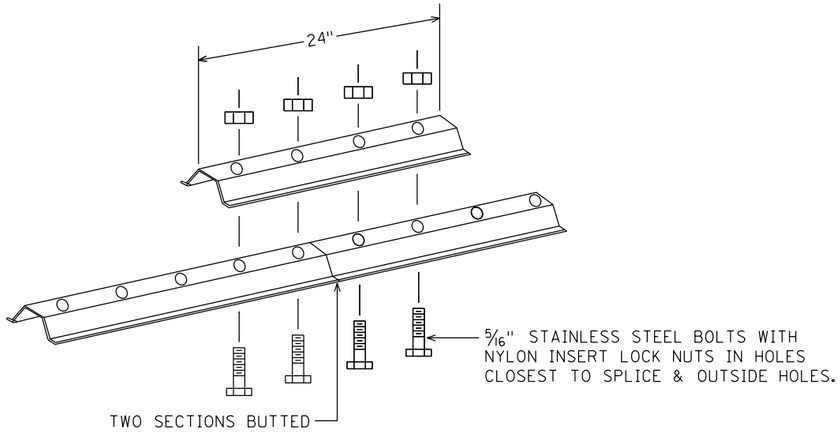
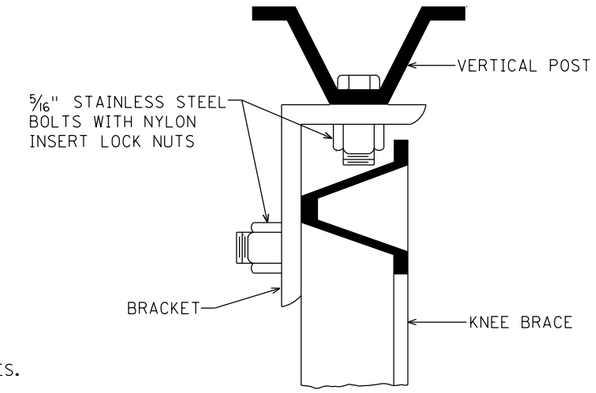
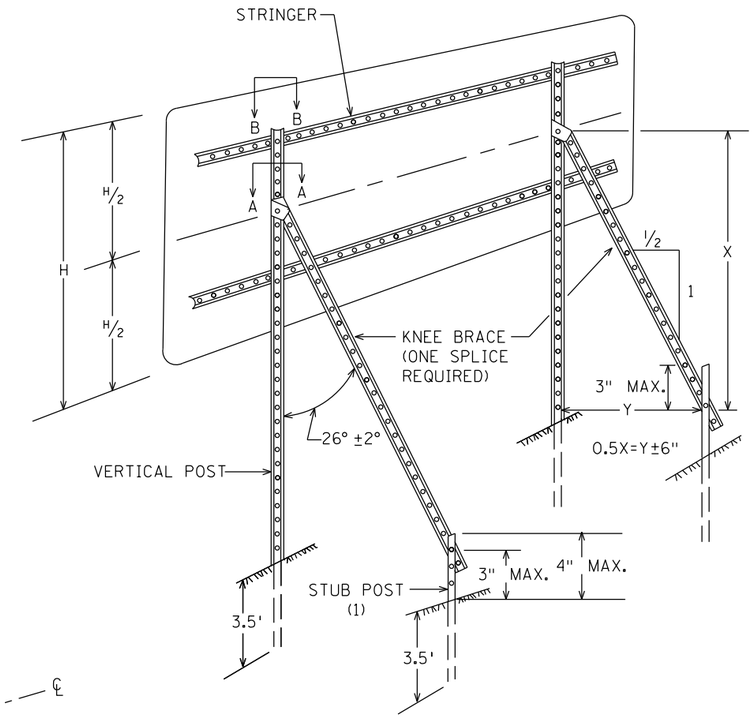


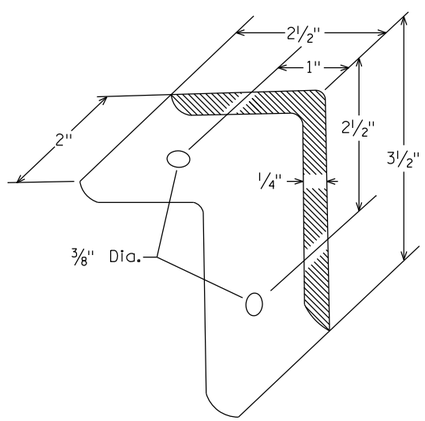
LATERAL BRACE OR STRINGER SPLICE DETAIL (EXPLODED VIEW)



SECTION A-A

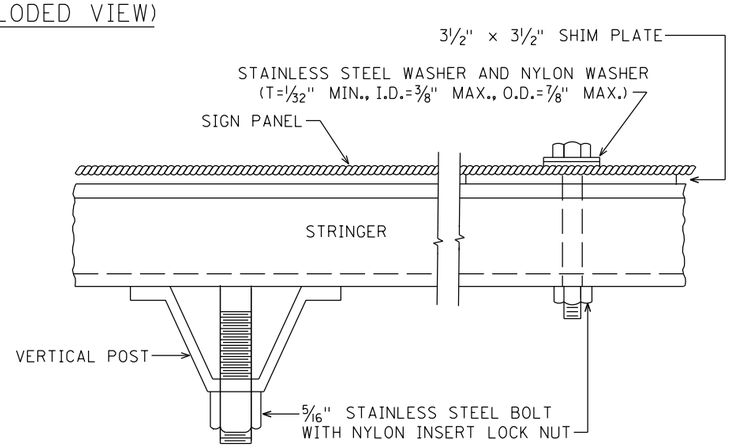


TYPICAL "A-FRAME" INSTALLATION TYPE "D" SIGNS

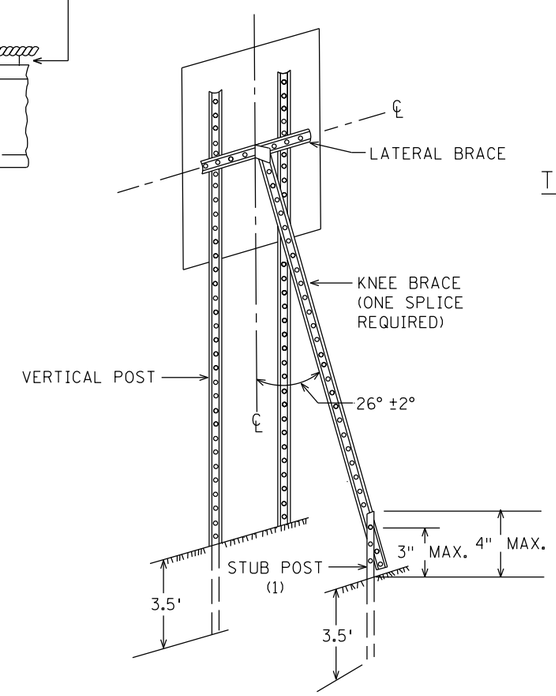


A-FRAME BRACKET

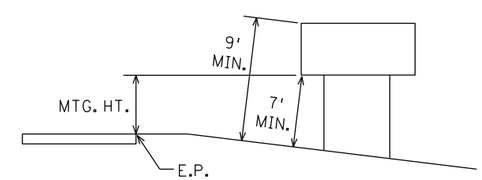
(STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



SECTION B-B

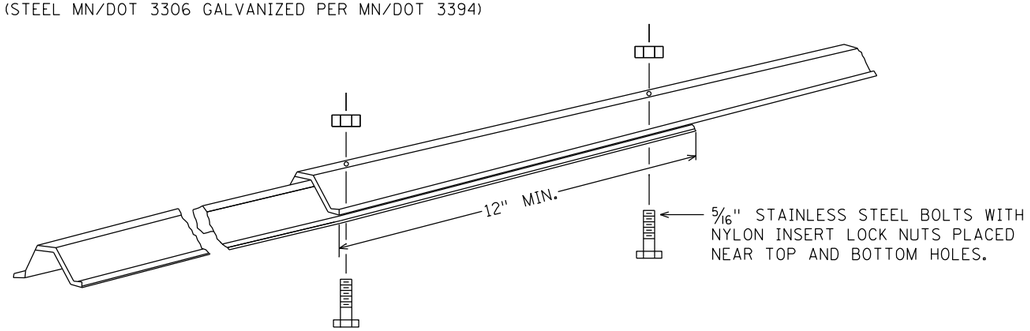


TYPICAL "A-FRAME" INSTALLATION TYPE "C" SIGNS



TYPICAL MOUNTING

(1) OFFSET STUB POST 1' TOWARD ROADWAY RELATIVE TO VERTICAL POST. ATTACH STUB POST AND KNEE BRACE BACK TO BACK.



KNEE BRACE SPLICE

TYPE C & D SIGN

STRUCTURAL DETAILS

Sheet 2 of 3

STATE PROJ.#: 120-091-002

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EDINA BIKE BLVD - PHASE 1

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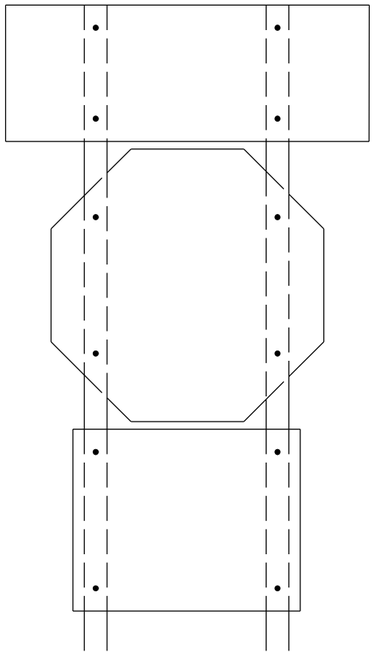
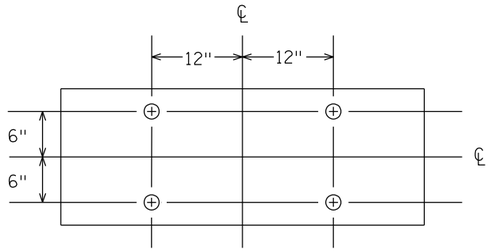
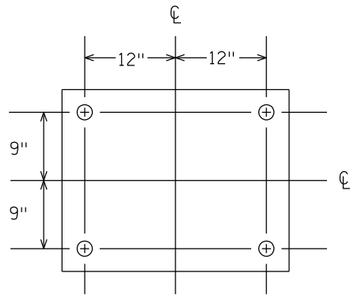


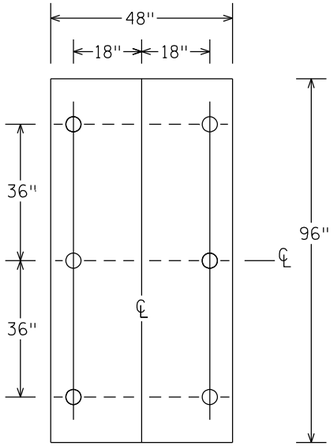
R6-1, R1-1 & (R6-3 OR R6-3a)
MOUNTING



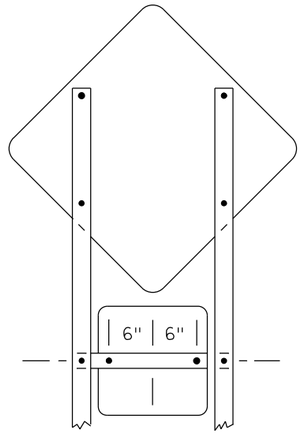
PUNCHING FOR R6-1(48"x18")



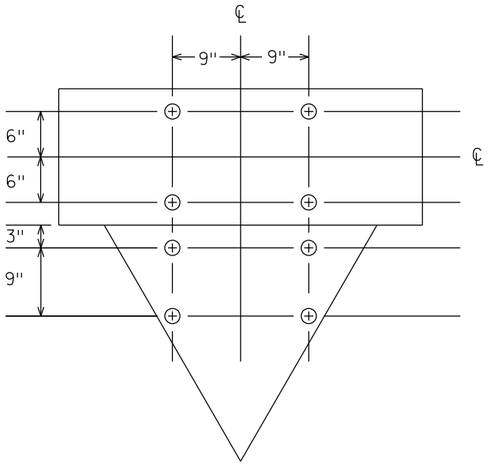
PUNCHING FOR R6-3 OR R6-3a(30"x24")



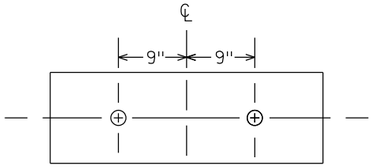
PUNCHING FOR R2-4b
SPEED LIMIT



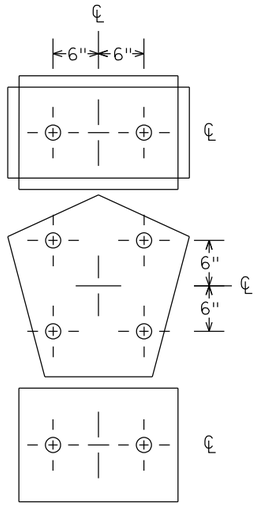
(W1-1, W1-2, W1-3, W1-4 OR W1-5) & W13-1
MOUNTING



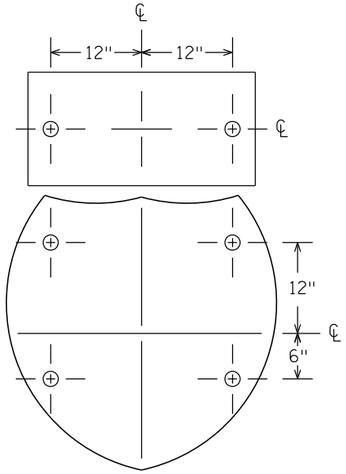
PUNCHING FOR R6-1(48"x18")
& R1-2(36"x36"x36")



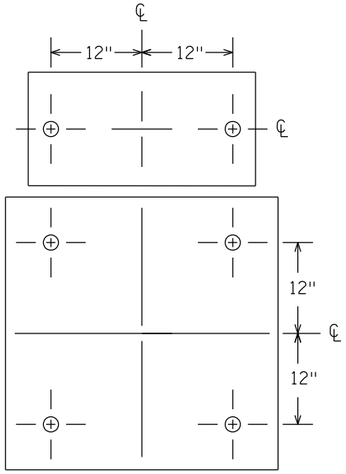
PUNCHING FOR R6-1(36"x12")



M2-1A [21"x15"] OR
(M3-1A, M3-2A, M3-3A OR M3-4A) [24"x12"] AND
M1-6 [24"x24"] AND
(M5-1A, M5-2A, M6-1A, M6-2A, M6-3A M6-4A, M6-5A OR M6-6A) [21"x15"]
PUNCHING



(M3-1A, M3-2A, M3-3A OR M3-4A) [30"x15"] AND
M1-1 [45"x36" OR 36"x36"]
PUNCHING



(M3-1, M3-1A, M3-2, M3-2A, M3-3, M3-3A M3-4 OR
M3-4A) [30"x15"] AND (M1-4 OR M1-5A) [36"x36"]
PUNCHING

TYPE C & D SIGN

STRUCTURAL DETAILS

Sheet 3 of 3

STATE PROJ.#: 120-091-002

EDINA BIKE BLVD - PHASE 1
SIGN DETAILS

NO.	DATE	BY	REMARKS / REVISIONS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

DATE: 05/07/12 LIC. NO. 42828

DRAWN: KAS
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APPROVED: MRA
DATE: 05/07/12
IMP.# X3-XXX
CONTR.# ENG 00-X

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5/4/2012
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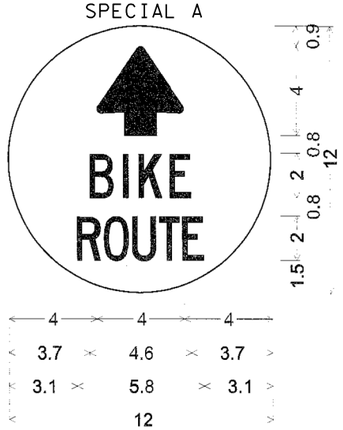
95% PLAN SUBMITTAL

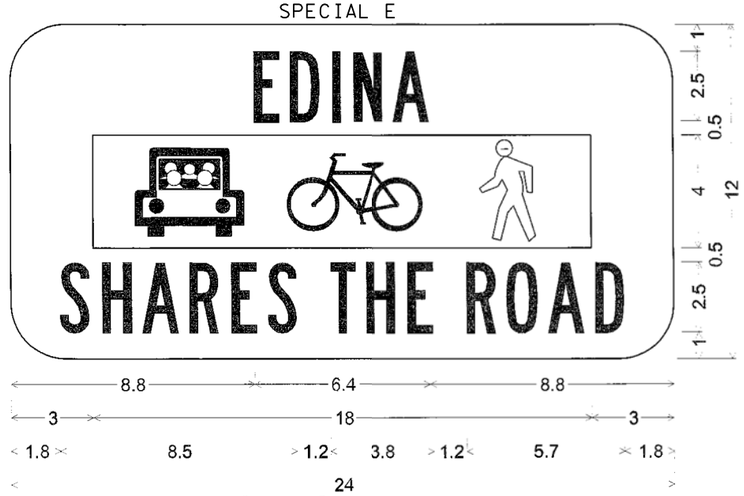
SPECIAL A



; No border, Green;
Arrow Custom - 4.0" 90° White;
[BIKE] White C;
[ROUTE] White C 33% spacing;

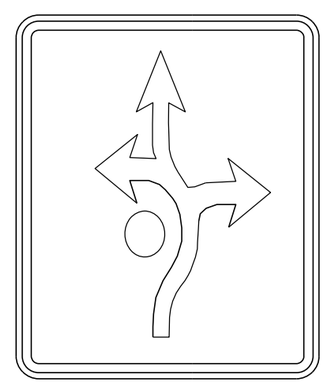
SPECIAL B; LEFT ARROWN WITH BIKE ROUTE
SPECIAL C; RIGHT ARROW WITH BIKE ROUTE
SPECIAL D; DOUBLE ARROWS WITH BIKE ROUTE

SPECIAL E



2.0" Radius, No border, White on Green;
[EDINA] B; Rectangle Black;
[SHARES THE ROAD] B;

SPECIAL F
30 X 12, BLACK ON WHITE
USED IN SIGN ASSEMBLY C-10



SPECIAL G
ROUNDABOUT FISH HOOK
24 X 30, BLACK ON WHITE
USED IN SIGN ASSEMBLY S-4

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS
			REVISIONS

EDINA BIKE BLVD - PHASE 1
TYPE C SIGNS - SPECIAL
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3080
(612)758-3099 FAX

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CONTR.# ENG 00-X

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5/4/2012
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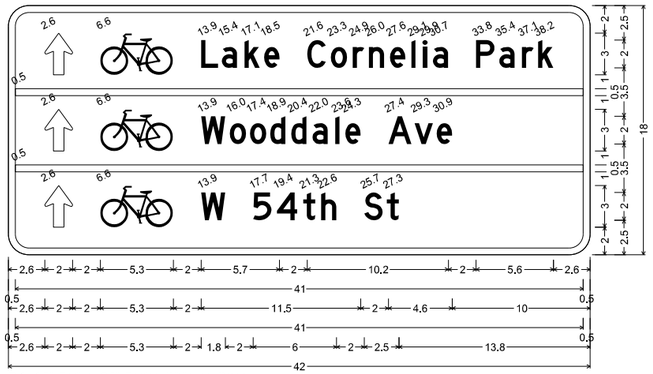
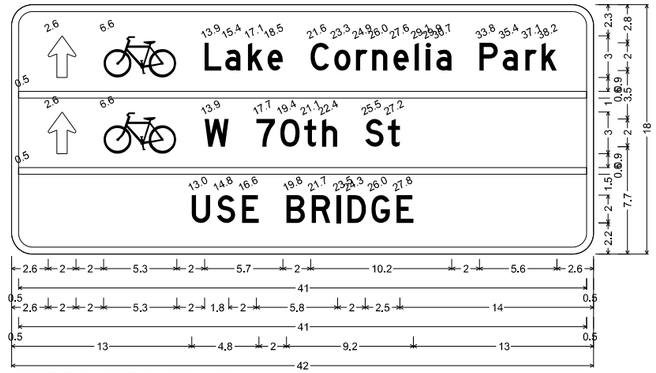
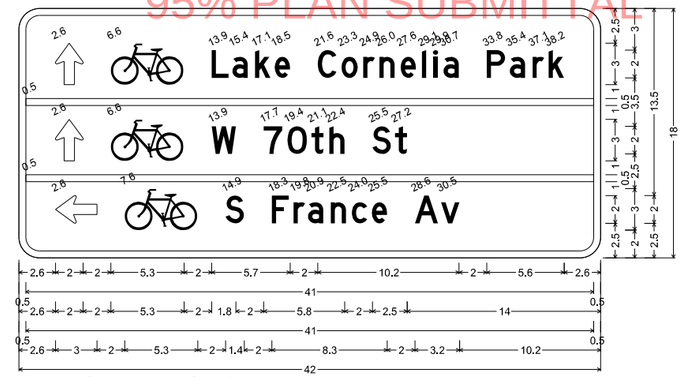
95% PLAN SUBMITTAL



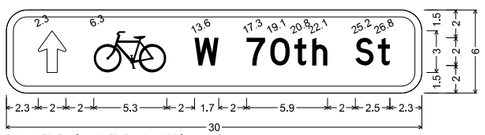
D-1; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [Lake Cornelia Park] D; Arrow Custom - 3.0" 90°; Symbol RG025; [Wooddale Ave] D; Arrow Custom - 3.0" 90°; Symbol RG025; [W 54th St] D;



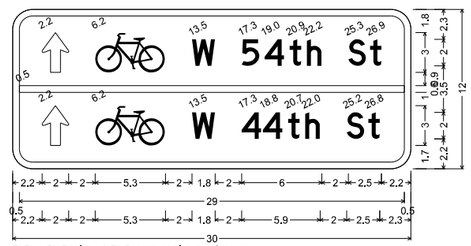
D-4; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [Lake Cornelia Park] D; Arrow Custom - 3.0" 90°; Symbol RG025; [W 70th St] D; [USE BRIDGE] D;



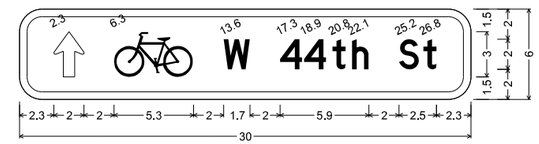
D-8; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [Lake Cornelia Park] D; Arrow Custom - 3.0" 90°; Symbol RG025; [W 70th St] D; Arrow Custom - 3.0" 180°; Symbol RG025; [S France Av] D;



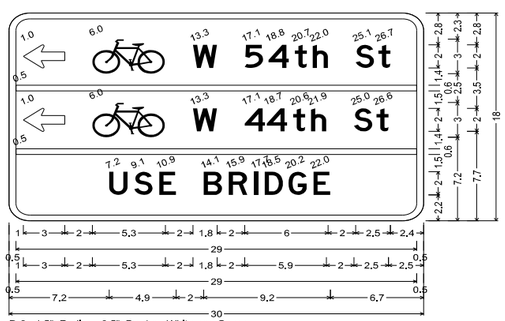
D-2; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [W 70th St] D;



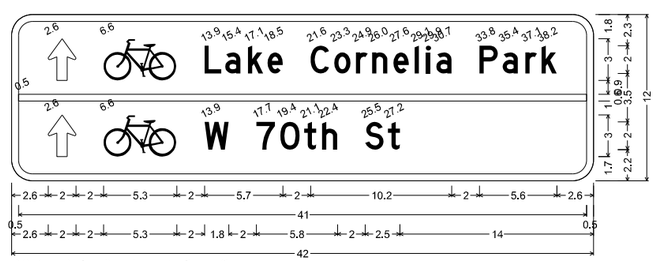
D-5; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [W 54th St] D;
Arrow Custom - 3.0" 90°; Symbol RG025; [W 44th St] D;



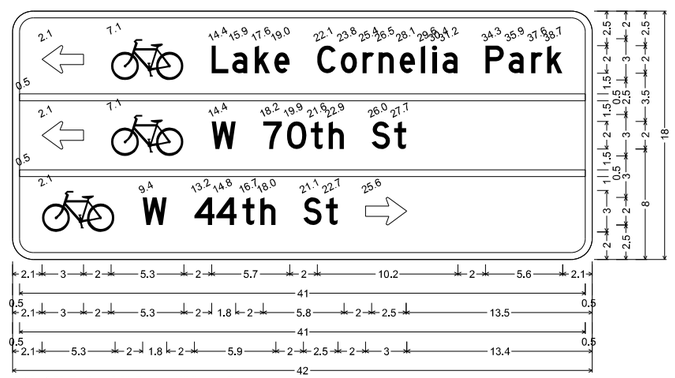
D-9; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [W 44th St] D;



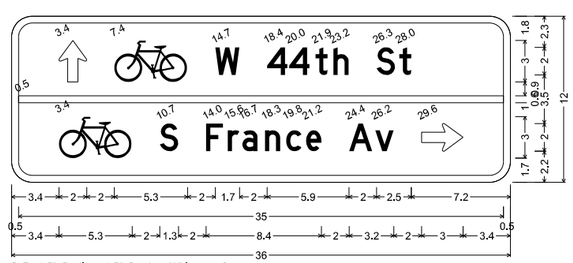
D-3; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 180°; Symbol RG025; [W 54th St] D;
Arrow Custom - 3.0" 180°; Symbol RG025; [W 44th St] D;
[USE BRIDGE] D;



D-6; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [Lake Cornelia Park] D; Arrow Custom - 3.0" 90°; Symbol RG025; [W 70th St] D;



D-10; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 180°; Symbol RG025; [Lake Cornelia Park] D; Arrow Custom - 3.0" 180°; Symbol RG025; [W 70th St] D; Symbol RG025; [W 44th St] D; Arrow Custom - 3.0" 0°;



D-7; 1.5" Radius, 0.5" Border, White on Green;
Arrow Custom - 3.0" 90°; Symbol RG025; [W 44th St] D; Symbol RG025; [S France Av] D;
Arrow Custom - 3.0" 0°;

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD – PHASE 1
TYPE D SIGNS
SIGNING AND PAVEMENT MARKING PLAN
BIKE LANE IMPROVEMENTS

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3280
(612)758-3099 FAX

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA

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IMP.# X3-XXX
CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

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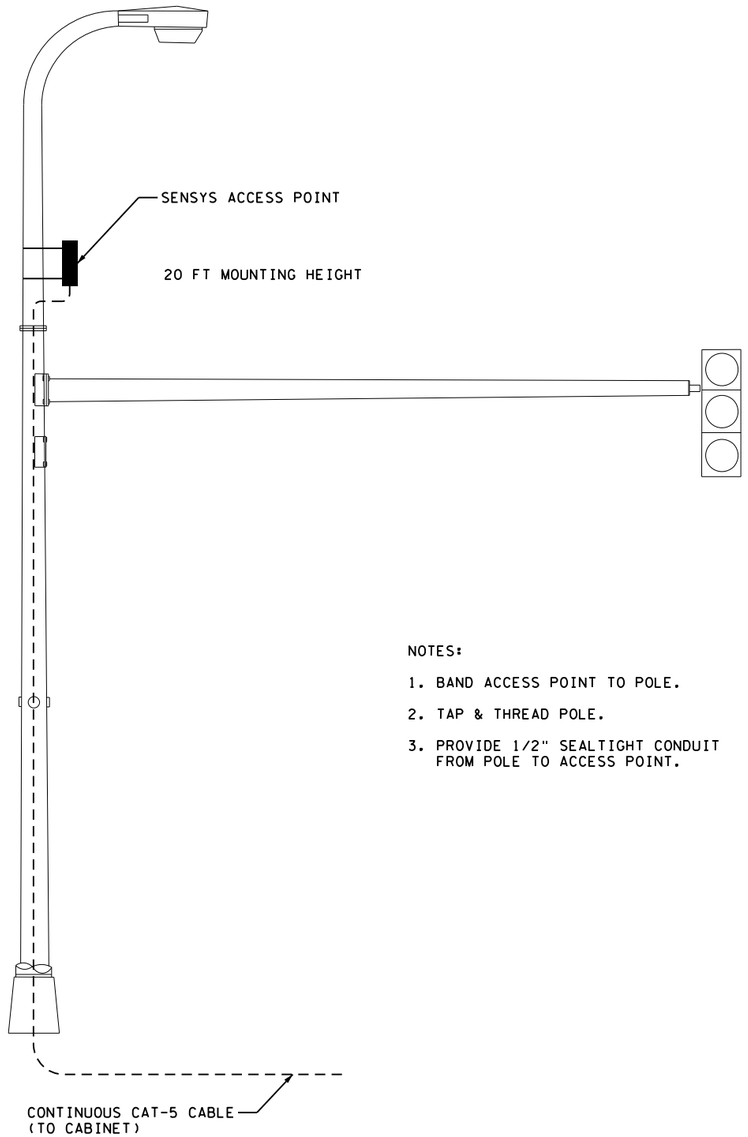
95% PLAN SUBMITTAL



NOTES:

1. BAND ACCESS POINT TO POLE.
2. TAP & THREAD POLE.
3. PROVIDE 1/2" SEALTIGHT CONDUIT FROM POLE TO ACCESS POINT.

NOTE: NO SCALE

SENSYS ACCESS POINT MOUNTING DETAIL

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1

SIGNAL DETAIL

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
MINNEAPOLIS, MN 55415
(612)758-3989
(612)758-3999 FAX

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IMP.# X3-XXX
CONTR.# ENG 00-X

STATE PROJ.#: 120-091-002

SHEET 41 OF 42

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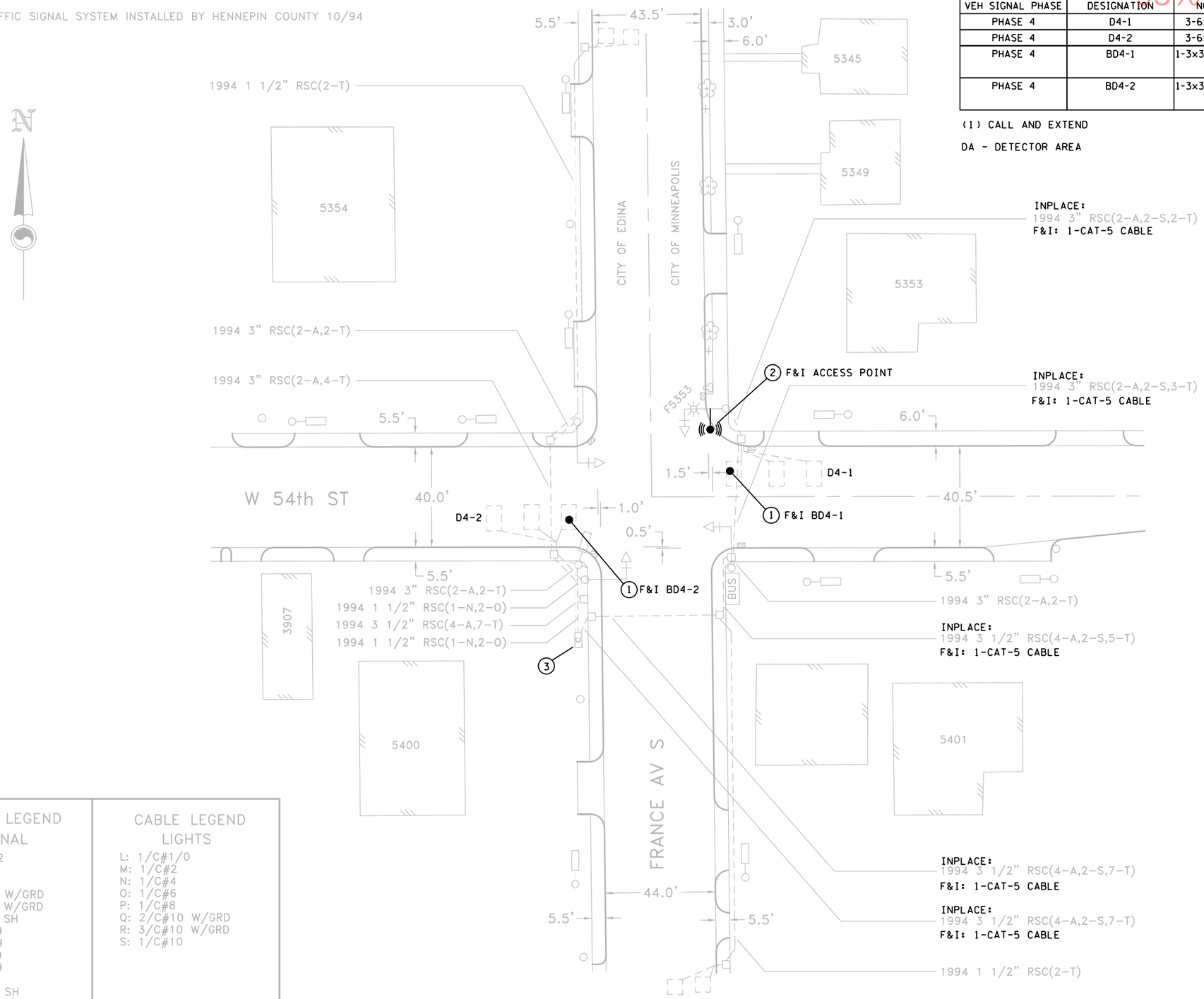
NOTE: TRAFFIC SIGNAL SYSTEM INSTALLED BY HENNEPIN COUNTY 10/94



95% PLAN SUBMITTAL

LOOP DETECTOR CHART					
VEH SIGNAL PHASE	DESIGNATION	NO	FUNCTION	LOCATION	INSTALLATION
PHASE 4	D4-1	3-6x10	(1)	INPLACE	INPLACE
PHASE 4	D4-2	3-6x10	(1)	INPLACE	INPLACE
PHASE 4	BD4-1	1-3x3 (DA)	(1)	2' FROM STOP BAR 8' FROM CURB FACE	CORE DRILL
PHASE 4	BD4-2	1-3x3 (DA)	(1)	2' FROM STOP BAR 10' FROM CURB FACE	CORE DRILL

(1) CALL AND EXTEND

DA - DETECTOR AREA

1. INSTALL SENSYS SENSORS (SEE DETECTOR CHART)
2. INSTALL WIRELESS SENSYS ACCESS POINT ON LUMINAIRE EXTENSION. INSTALL CAT-5 CABLE TO CABINET. SEE NOTE 3.
3. INPLACE CABINET:
   F&I: SENSYS CONTACT CLOSURE CARD (NEMA TS1-RACK MOUNTED)
   SENSYS ACCESS BOX

NOTES:

1. ALL ITEMS ARE INPLACE AND SHALL REMAIN INPLACE UNLESS OTHERWISE DENOTED AS F&I (FURNISH AND INSTALL).
2. WIRELESS SENSORS BD4-1 AND BD4-2 SHALL BE F&I BY CONTRACTOR. SEE SPECIAL PROVISIONS. EXACT LOCATION SHALL BE DETERMINED IN THE FIELD BY ENGINEER.
3. WIRELESS ACCESS POINT SHALL BE INSTALLED ON LUMINAIRE EXTENSION (20 FEET HEIGHT), FACE SOUTH AND A CAT-5 CABLE SHALL RUN FROM THE ACCESS POINT TO THE CONTROLLER CABINET.
4. CONTRACTOR SHALL LOCATE EXISTING INPLACE LOOP DETECTORS PRIOR TO INSTALLATION OF WIRELESS SENSORS BD4-1 AND BD4-2. LOCATION OF BD4-1 AND BD4-2 MAY NEED TO BE ADJUSTED TO AVOID INPLACE LOOP DETECTORS.

CABLE LEGEND SIGNAL	CABLE LEGEND LIGHTS
A: 12/C#12	L: 1/C#1/0
B: 5/C#12	M: 1/C#2
C: 3/C#12	N: 1/C#4
D: 2/C#10 W/GRD	O: 1/C#6
E: 3/C#10 W/GRD	P: 1/C#8
F: 2/C#14 SH	Q: 2/C#10 W/GRD
G: 50PR#19	R: 3/C#10 W/GRD
H: 25PR#19	S: 1/C#10
I: 18PR#19	
J: 12PR#19	
K: 3PR#19	
T: 2/C#12 SH	

STATE PROJ.#: 120-091-002

NO.	DATE	BY	REMARKS / REVISIONS

EDINA BIKE BLVD - PHASE 1
INTERSECTION SIGNAL LAYOUT
W 54TH ST AND FRANCE AVE S
REVISE SIGNAL SYSTEM

CITY OF EDINA
7450 METRO BOULEVARD
EDINA, MN 55439-3037
Ph: 952-826-0371
Fax: 952-826-0392

ALLIANT ENGINEERING, INCORPORATED
233 PARK AVENUE SOUTH
SUITE 300
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