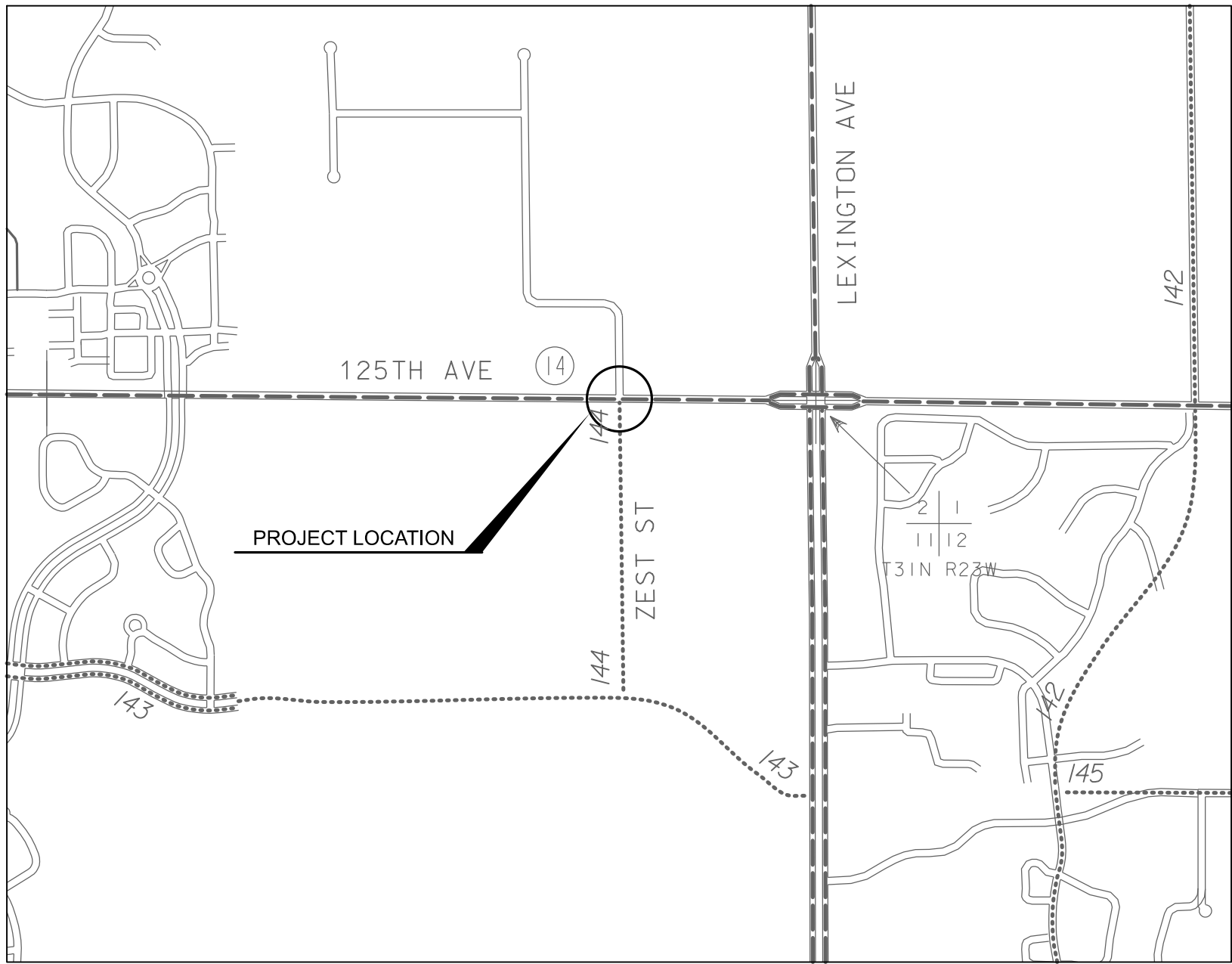


ANOKA COUNTY

CONSTRUCTION PLAN FOR GRADING, BITUMINOUS SURFACING, SIGNALS, AND ADA IMPROVEMENTS

LOCATED ON CSAH 14 (125TH AVE) AT ZEST ST



DESIGN DESIGNATION

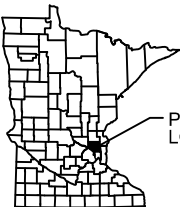
CSAH 14 (125TH AVE)

R VALUE	=	.....
ADT (CURRENT YEAR) 2026	=	.....
ADT (FUTURE YEAR) 2046	=	.....
D (DIRECTIONAL DISTRIBUTION)	=	50/50
T (HEAVY COMMERCIAL)	=	.....
DESIGN ESALS (20 YR. BESALS)=		.....
DESIGN SPEED	=	55 MPH
BASED ON STOPPING SIGHT DISTANCE		
HEIGHT OF EYE	=	3.5 FT.
HEIGHT OF OBJECT	=	2.0 FT.
SHOULDER WIDTH	=	0 FT.
FUNCTIONAL CLASS		PRINCIPAL ARTERIAL
NO. OF TRAFFIC LANES	=	4
NO. OF PARKING LANES	=	0
TON DESIGN	=	10

DESIGN DESIGNATION

ZEST ST

R VALUE	=	.....
ADT (CURRENT YEAR) 2026	=	.....
ADT (FUTURE YEAR) 2046	=	.....
D (DIRECTIONAL DISTRIBUTION)	=	50/50
T (HEAVY COMMERCIAL)	=	.....
DESIGN ESALS (20 YR. BESALS)=		.....
DESIGN SPEED	=	30 MPH
BASED ON STOPPING SIGHT DISTANCE		
HEIGHT OF EYE	=	3.5 FT.
HEIGHT OF OBJECT	=	2.0 FT.
SHOULDER WIDTH	=	0 FT.
FUNCTIONAL CLASS		LOCAL
NO. OF TRAFFIC LANES	=	2
NO. OF PARKING LANES	=	0
TON DESIGN	=	10



COUNTY: ANOKA
DISTRICT: METRO

SCALES:	
PLAN	50'
INDEX MAP	500'
GENERAL LAYOUT	50'

PLAN REVISIONS		
DATE	SHEET NO.	APPROVER

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 38-22, ENTITLED "STANDARD GUIDELINES FOR INVESTIGATING AND DOCUMENTING EXISTING UTILITIES."

FOR PLANS AND UTILITIES SYMBOLS SEE INPLACE TOPOGRAPHY & UTILITY PLAN

CHARGE IDENTIFIER

GOVERNING SPECIFICATIONS

THE 2025 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST EDITION OF THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

INDEX

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3	ESTIMATED QUANTITIES
4	QUANTITY TABULATIONS
5	SOILS AND CONSTRUCTION NOTES
6	INSETS AND DETAILS
7	INPLACE TOPOGRAPHY & UTILITIES PLAN
8	REMOVAL PLAN
9	CONSTRUCTION PLAN
10 - 12	INTERSECTION DETAILS
13	TURF ESTABLISHMENT & EROSION CONTROL PLAN
14	SIGNING AND STRIPING PLAN
15 - 26	SIGNAL PLAN

THIS PLAN CONTAINS 26 SHEETS

ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITHIN THE CONSTRUCTION OF THIS PROJECT.



SIGNATURE: *Sean Delmore* PRINTED NAME: SEAN DELMORE, PE, PTOE

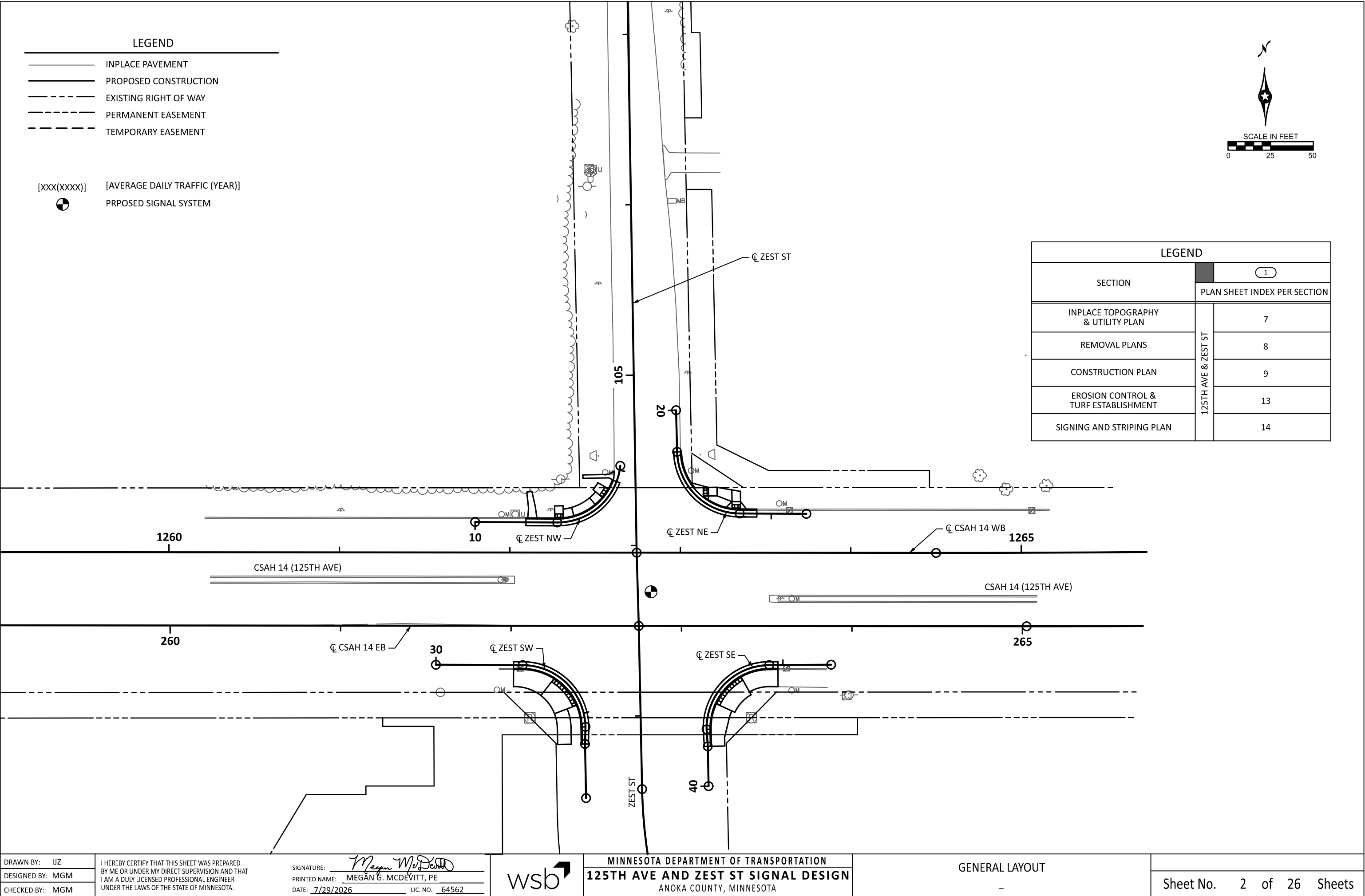
DESIGN ENGINEER: I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION, AND THAT I AM DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

DATE: 7/29/2026 LICENSE NUMBER: 40945

APPROVED ANOKA COUNTY ENGINEER

APPROVED CITY OF BLAINE ENGINEER

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\05_Discipline\Roadway\03_Sheets\R-033394-000-105gel-001



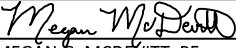
DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\05_Discipline\Roadway\03_Sheets\033394-000-110est-001

STATEMENT OF ESTIMATED QUANTITES						
TAB	SHEET NO.	ITEM NO.	DESCRIPTION	NOTES	UNIT	PROJECT TOTAL
						QUANTITY
		2021.501	MOBILIZATION		LUMP SUM	1
A	4	2104.502	REMOVE SIGN		EACH	3
A	4	2104.503	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN FT	260
A	4	2104.503	REMOVE CURB AND GUTTER		LIN FT	137
A	4	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD	77
A	4	2104.518	REMOVE BITUMINOUS WALK		SQ FT	109
A	4	2104.518	REMOVE CONCRETE WALK		SQ FT	329
		2106.507	EXCAVATION - COMMON		CU YD	175
		2106.507	SELECT GRANULAR EMBANKMENT (CV)		CU YD	119
		2106.507	COMMON EMBANKMENT (CV)		CU YD	65
B	4	2211.507	AGGREGATE BASE (CV) CLASS 5	(P)	CU YD	45
B	4	2231.509	BITUMINOUS PATCHING MIXTURE		TON	33
B	4	2357.506	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	13
A	4	2506.502	ADJUST FRAME AND RING CASTING		EACH	1
B	4	2521.602	DRILL AND GROUT REINF BAR (EPOXY COATED)		EACH	101
B	4	2521.618	CONCRETE CURB RAMP WALK		SQ FT	1629
B	4	2531.503	CONCRETE CURB AND GUTTER DESIGN B424		LIN FT	266
B	4	2531.603	CONCRETE SILL		LIN FT	100
B	4	2531.618	TRUNCATED DOMES		SQ FT	117
		2563.601	TRAFFIC CONTROL		LUMP SUM	1
	14	2564.618	SIGN		SQ FT	8
E	15	2565.501	EMERGENCY VEHICLE PREEMPTION SYSTEM		LUMP SUM	1
E	15	2565.516	TRAFFIC CONTROL SIGNAL SYSTEM		SYSTEM	1
C	4	2573.502	STORM DRAIN INLET PROTECTION		EACH	3
C	4	2573.502	CULVERT END CONTROLS		EACH	2
C	4	2573.503	SILT FENCE, TYPE MS		LIN FT	752
C	4	2574.505	SOIL BED PREPARATION		ACRE	0.13
C	4	2574.508	FERTILIZER TYPE 3		POUND	26
C	4	2575.504	ROLLED EROSION PREVENTION CATEGORY 20		SQ YD	612
C	4	2575.505	SEEDING		ACRE	0.13
C	4	2575.523	RAPID STABILIZATION METHOD 3	(1)	M GALLON	0.8
C	4	2575.608	SEED SOUTHERN BOULEVARD		POUND	20.8
D	4	2582.503	4" SOLID LINE MULTI-COMPONENT		LIN FT	29
D	4	2582.503	24" SOLID LINE PREFORM THERMO GROUND IN		LIN FT	162
D	4	2582.518	CROSSWALK PREFORM THERMOPLASTIC GROUND IN ENHANCED SKID RESISTANCE		SQ FT	712

- NOTES:**
(1) TO BE USED AS APPROVED BY THE ENGINEER.
- (P) PLAN QUANTITY

BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX:
- 2360 MIX.....113 LBS/SY-IN
TACK COAT (INCIDENTAL)
- NEW SURFACES.....0.05 GAL/SY
EROSION CONTROL & TURF ESTABLISHMENT
- FERTILIZER TYPE 3 (PERMANENT).....200 LBS/ACRE
- SEED SOUTHERN BOULEVARD (PERMANENT).....160 LBS/ACRE
- RAPID STABILIZATION METHOD 3 (TEMPORARY).....6 MGAL/ACRE

DRAWN BY: IJZ	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: 
DESIGNED BY: MGM		PRINTED NAME: MEGAN G. MCDEVITT, PE
CHECKED BY: MGM		DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION

125TH AVE AND ZEST ST SIGNAL DESIGN

ANOKA COUNTY, MINNESOTA

ESTIMATED QUANTITIES

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\1R-0333394-000\05_Discipline\Roadway\03_Sheets\1R-0333394-000-130tab-001

REMOVALS							A
LOCATION	ADJUST FRAME AND RING CASTING	REMOVE					SAWING BITUMINOUS PAVEMENT (FULL DEPTH)
	EACH	BITUMINOUS PAVEMENT	BITUMINOUS WALK	CONCRETE WALK	CURB AND GUTTER	SIGN	
		SQ YD	SQ FT	SQ FT	LIN FT	EACH	LIN FT
CSAH 14 (125TH AVE) AND ZEST ST	1	77	109	329	137	3	260
PROJECT TOTAL	1	77	109	329	137	3	260

NOTES:
- SAWING OF EXISTING BITUMINOUS TRAIL, CONCRETE WALK, AND CONCRETE CURB & GUTTER IS INCIDENTAL.

QUADRANT TABULATION														B
LOCATION	AGGREGATE BASE (CV) CLASS 5 (1)	BITUMINOUS PATCHING MIXTURE	BITUMINOUS MATERIAL FOR TACK COAT	DRILL AND GROUT REINF BAR (EPOXY COATED) (2)				CONCRETE CURB RAMP WALK	CONCRETE CURB & GUTTER DESIGN B424	CONCRETE SILL	TRUNCATED DOMES			
				SIDEWALK	QUADRANT						SQUARE		RADIAL	
				TRANSVERSE	BACK OF CURB	LANDING	END OF CURB TIE IN				MAINLINE	SIDESTREET		
				CU YD	TON	GAL	EACH				EACH	EACH	EACH	SQ FT
CSAH 14 (125TH AVE) AND ZEST ST														
ZEST NW	7	12	4		6	12	4	196	61	27	9	9		
ZEST NE	7	7	3		14	17	4	189	64		9	9		
ZEST SW	15	8	3		8	9	4	617	70	25			39	35
ZEST SE	16	8	3	3	8	8	4	627	71	48			42	35
PROJECT TOTAL	45	35	13	3	36	46	16	1629	266	100	18	18	81	
				101							117			

NOTES:
(1) INCLUDES AGGREGATE UNDER CONCRETE WALK AND CURB & GUTTER.
(2) NO. 4 12" LONG REINFORCEMENT BARS
(3) RADIUS OF QUADRANT FLOWLINE.

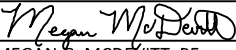
BASIS OF QUANTITIES:
- BITUMINOUS DENSITY: 113 LB/SY/IN

EROSION CONTROL & TURF ESTABLISHMENT									C
LOCATION	STORM DRAIN INLET PROTECTION	CULVERT END CONTROLS	SEEDING	SOIL BED PREPARATION	RAPID STABILIZATION METHOD 3	FERTILIZER TYPE 3	SILT FENCE, TYPE MS	ROLLED EROSION PREVENTION CATEGORY 20	SEED SOUTHERN BOULEVARD
	EACH	EACH	ACRE	ACRE	MGAL	POUND	LIN FT	SQ YD	POUND
CSAH 14 (125TH AVE) AND ZEST ST	3	2	0.13	0.13	0.8	26	752	612	20.8
PROJECT TOTAL	3	2	0.13	0.13	0.8	26	752	612	20.8

NOTES:
- SEE SHEET 3 FOR BASIS OF QUANTITIES.

PAVEMENT MARKING TABULATION			D
LOCATION	4" SOLID LINE MULTI-COMP	24" SOLID LINE PREF THERMO GROUND IN	CROSSWALK PREF THERMO GROUND IN
	WHITE	WHITE	ESR (4)
	LIN FT	LIN FT	SQ FT
CSAH 14 (125TH AVE) AND ZEST ST	29	162	712
PROJECT TOTAL	29	162	712

NOTES:
(4) 8' X 1' CROSSWALK BLOCK WITH 1' SPACE BETWEEN BLOCKS AND 3' SPACE BETWEEN BLOCK PAIRS ON SOUTH CROSSING OF ZEST ST AND WEST CROSSING OF 125TH AVE. 6' X 1' CROSSWALK BLOCK WITH 1' SPACE BETWEEN BLOCKS AND 3' SPACE BETWEEN BLOCK PAIRS ON NORTH CROSSING OF ZEST ST AND EAST CROSSING OF 125TH AVE.

DRAWN BY: IJZ	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: 
DESIGNED BY: MGM		PRINTED NAME: MEGAN G. MCDEVITT, PE
CHECKED BY: MGM		DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

TABULATIONS

Sheet No. 4 of 26 Sheets

CONSTRUCTION AND SOIL NOTES

1.

THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE CLASS 5 AGGREGATE BASE.
2.

WHERE CONNECTING TO IN-PLACE ROADWAYS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE SURFACING , THEN AT A 1(V):20(H) TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
3.

THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF PRIVATE UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL-INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING THEIR OWN DETERMINATION AS TO THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR WILL CALL GOPHER STATE ONE A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION.
4.

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 (INCIDENTAL).
5.

NO EXTRA PAYMENT WILL BE MADE FOR MOVING, PLACING, OR TEMPORARY STOCKPILING OF EXCAVATION, EMBANKMENT, AND/OR EMBANKMENT MATERIAL.
6.

UNLESS OTHERWISE SPECIFICALLY ALLOWED OR REQUIRED BY THE CONTRACT, BITUMINOUS AND CONCRETE ITEMS DISTURBED BY CONSTRUCTION SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND MAY BE RECYCLED OR DISPOSED OF OFF THE RIGHT OF WAY.
7.

TEMPORARY EROSION CONTROL - TEMPORARY EROSION CONTROL DEVICES AND THEIR SUGGESTED LOCATION HAVE BEEN SHOWN IN THE PLANS ALONG WITH PAY ITEMS FOR THEIR USE. THIS DOES NOT HOWEVER RELIEVE THE CONTRACTOR OF HIS RESPONSIBILITIES TO CONDUCT HIS CONSTRUCTION IN A MANNER THAT WILL CONTROL EROSION. RESPONSIBILITY FOR CONTROLLING EROSION AND MAINTENANCE OF EROSION CONTROL AS SET IN MNDOT SPECIFICATIONS 1717, 1803, 2101, 2106, 2573, 2575, AND IS AMENDED BY THE SPECIAL PROVISIONS.
8.

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST EDITION OF THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.
9.

ALL TOPSOIL PROPOSED FOR USE, WHETHER AVAILABLE FROM THE SITE OR IMPORTED, SHALL MEET THE REQUIREMENTS OF MNDOT SPEC. 3877.2. SEED, FERTILIZER, AND HYDRAULIC STABILIZED FIBER MATRIX SHALL BE PLACED OVER TOPSOIL IN ACCORDANCE WITH THE PROJECT PLANS.
10.

IN PREPARATION FOR SEED, FERTILIZER, AND HYDRAULIC MULCHES, THE BEDDING SHALL BE FREE OF ALL STONES, DEBRIS, AND CLOUDS LARGER THAN TWO INCHES (2"). THERE SHALL BE NO FERTILIZER IN NATIVE SEEDING AREAS.
11.

AS A PRECAUTIONARY MEASURE FROM A SOILS 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 (V:H) OR GREATER (FLATTER) SLOPE BETWEEN THE EDGE OF THE TRAFFIC SURFACE AND THE BOTTOM OF THE EXCAVATION.
12.

STRIP TOPSOIL FROM AREAS TO BE DISTURBED BY CONSTRUCTION AND REUSE AS SLOPE DRESSING.
13.

ALL TOPSOIL STRIPPING WILL BE CONSIDERED TO BE COMMON EXCAVATION. PLACEMENT OF SALVAGED TOPSOIL SHALL BE PAID UNDER ITEM 2106 COMMON EMBANKMENT.

THE FOLLOWING STANDARD PLANS, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
MNDOT STANDARD PLANS	
INDEX NO.	SUBJECT
5-297.115 (1 of 2)	STAKING INFORMATION SHEET
5-297.115 (2 of 2)	STAKING INFORMATION SHEET
5-297.250 (1 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.250 (2 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.250 (3 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.250 (4 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.250 (5 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.250 (6 of 6)	PEDESTRIAN CURB RAMP DETAILS
5-297.404 (1 of 3)	PERMANENT EROSION CONTROL - ALONG ROADWAYS, DITCHES, AND FLUMES
5-297.404 (2 of 3)	PERMANENT EROSION CONTROL - TURF ESTABLISHMENT DETAIL AT CULVERT ENDS
5-297.404 (3 of 3)	PERMANENT EROSION CONTROL - REPP (BLANKET) STAPLE PATTERN FOR SLOPES
5-297.405 (4 of 8)	TEMPORARY SEDIMENT CONTROL - STORM DRAIN INLET PROTECTION
5-297.405 (6 of 8)	TEMPORARY SEDIMENT CONTROL - SILT FENCE

THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.	
MNDOT STANDARD PLATES	
PLATE NO.	DESCRIPTION
7020K	CONCRETE CURB (DESIGN B, DESIGN V, DESIGN S, DESIGN DR AND DESIGN BR)(2 SHEETS)
7038A	DETECTABLE WARNING SURFACE TRUNCATED DOMES
7100H	CONCRETE CURB AND GUTTER (DESIGN B AND DESIGN V)

THE LISTED STANDARD PLANS AND / OR PLATES ARE INCORPORATED BY REFERENCE INTO THE PLAN SET. THE CERTIFICATION ON THIS SHEET SIGNIFIES THE ENGINEER SELECTED THE STANDARD PLANS AND / OR PLATES AS APPROPRIATE FOR USE ON THIS PROJECT.

DRAWN BY: IJZ	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: Megan McDermott
DESIGNED BY: MGM		PRINTED NAME: MEGAN G. MCDEVITT, PE
CHECKED BY: MGM		DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

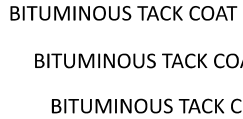
SOILS AND CONSTRUCTION NOTES

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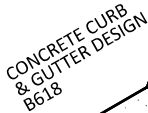
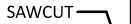
Sheet No. 5 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\R-033394-000\05_Discipline\Roadway\03_Sheets\R-033394-000-125scr-001

DATE: 29-JUL-2026



- ①



FOR OTHER DIMENSIONS SEE STANDARD PLATE NO. 7100

TRANSITION CURB TAPER

DRAWN BY:	IJZ
DESIGNED BY:	MGM
CHECKED BY:	MGM

I HEREBY CERTIFY THAT THIS SHEET 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.

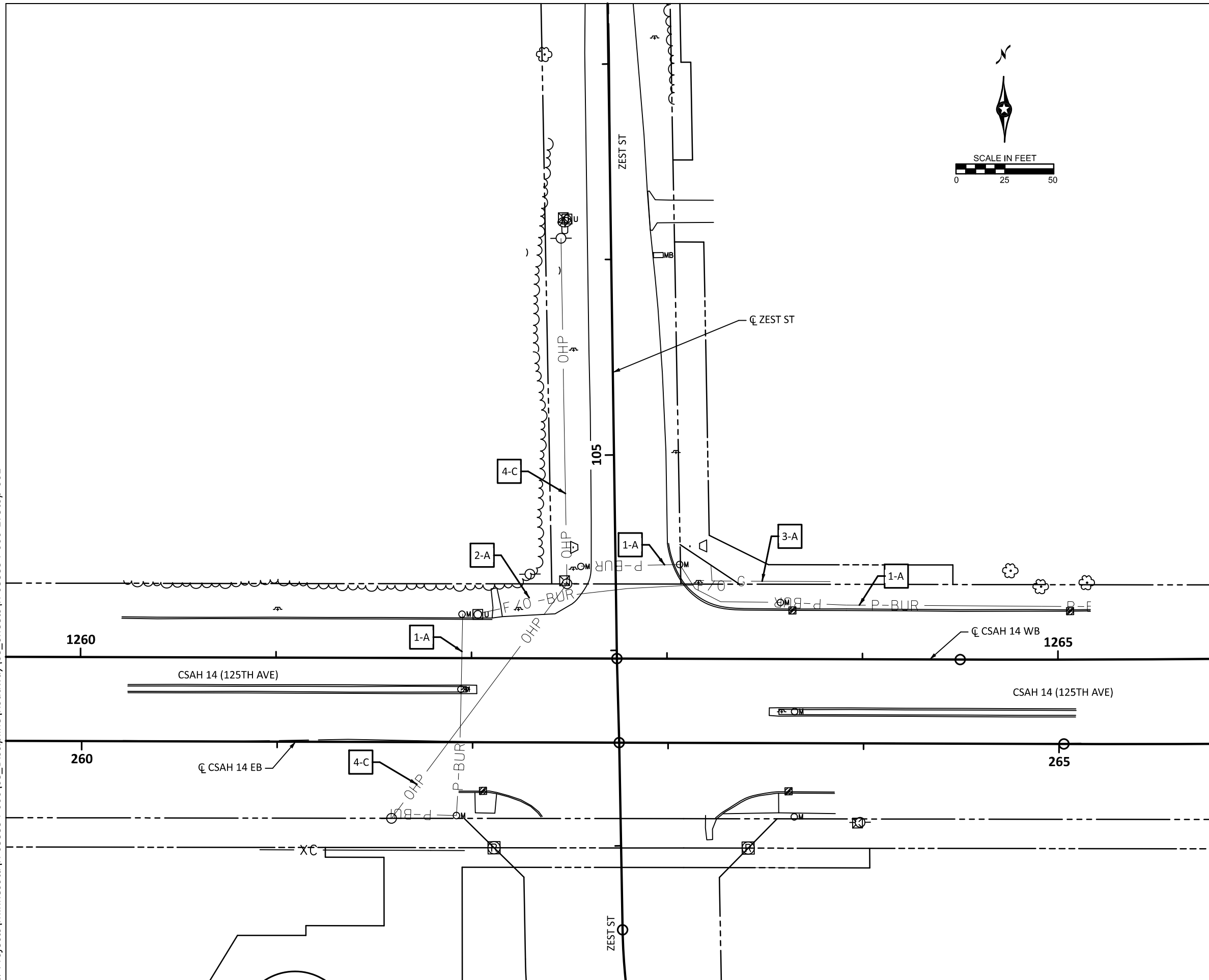
SIGNATURE:



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

INSETS AND DETAILS

Sheet No. 6 of 26 Sheets



LEGEND

— F / O —BUR—	BURIED FIBER OPTIC
— G —	BURIED GAS LINE
— P-BUR —	BURIED POWER LINE
— OHP —	OVERHEAD POWER LINE
-----	CONSTRUCTION LIMITS
-----	EXISTING RIGHT OF WAY
-----	PERMANENT EASEMENT
-----	TEMPORARY EASEMENT

	UTILITY PEDESTAL
	MANHOLE
	POWER/UTILITY POLE
	LIGHT POLE
	VEGETATION
	CATCH BASIN
	SIGN
	MAILBOX

UTILITY NOTES

1-A UTILITY CONFLICT AREA
(OWNER - IMPACT)

OWNERSHIP:
(1) ANOKA COUNTY, (2) ARVIG, (3) CENTERPOINT,
(4) CONNEXUS

IMPACT NOTES ON PLAN SHEETS
(A) LEAVE AS IS, (B) ADJUST, (C) RELOCATE,
(D) REMOVE

GENERAL NOTES

1. UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL BURIED UTILITIES IN THE FIELD.
2. ALL UTILITY WORK SHOWN SHALL BE DONE BY OTHERS UNLESS SHOWN IN THE PLAN AS WORK TO BE PERFORMED BY CONTRACTOR.

DRAWN BY:	IJZ
DESIGNED BY:	MGM
CHECKED BY:	MGM

I HEREBY CERTIFY THAT THIS SHEET 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.

SIGNATURE: Megan McDevitt
 PRINTED NAME: MEGAN G. MCDEVITT, PE
 DATE: 7/29/2026 LIC. NO. 64562

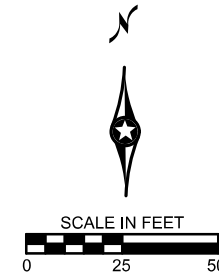
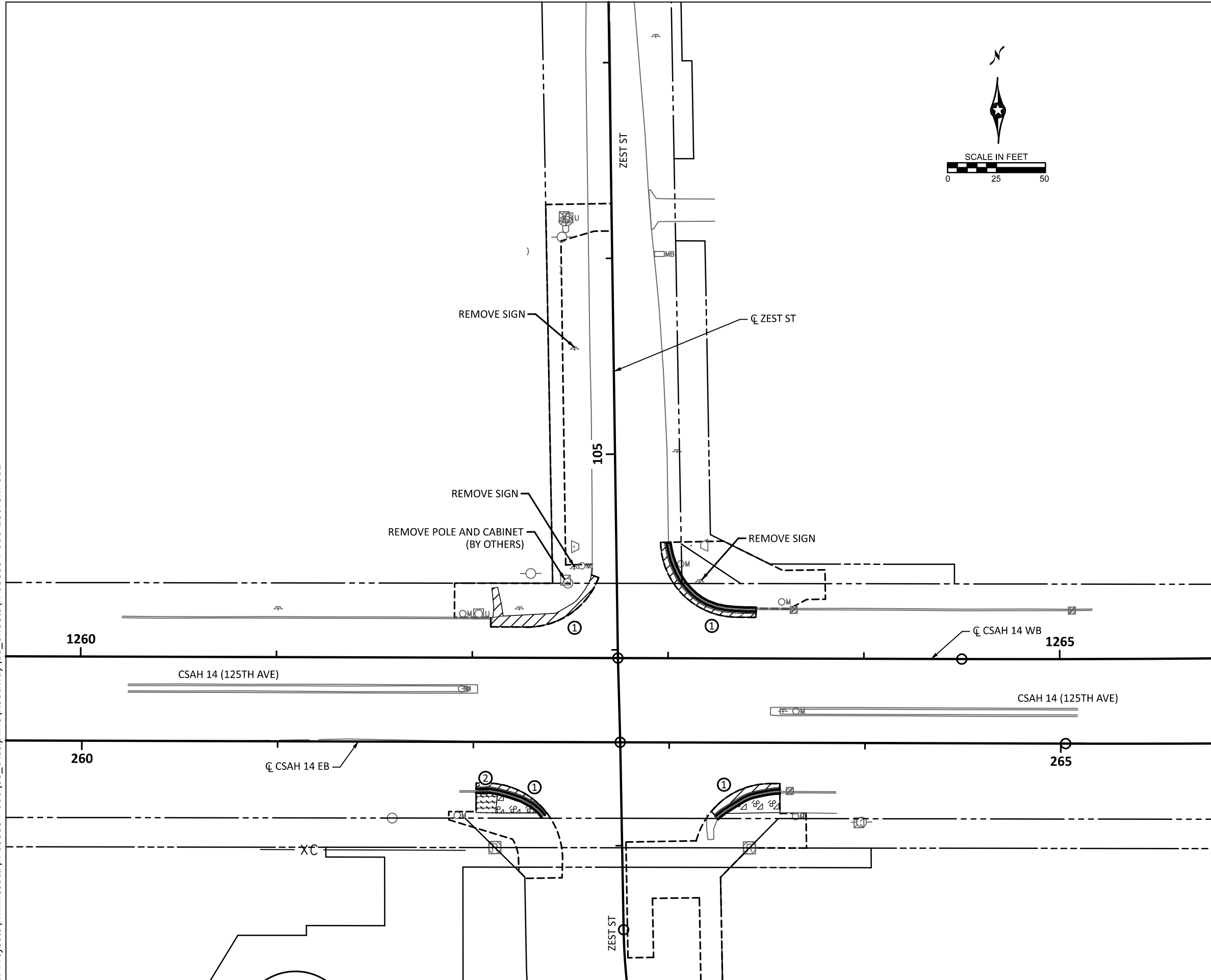


MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
 ANOKA COUNTY, MINNESOTA

INPLACE TOPOGRAPHY AND UTILITIES PLAN

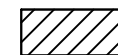
Sheet No. 7 of 26 Sheets

DATE: 29-JUL-2026

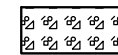


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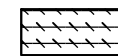
- | | |
|-----------|--|
| ① | SAWING BITUMINOUS PAVEMENT
(FULL DEPTH) |
| ② | ADJUST FRAME AND RING CASTING |
| ————— | INPLACE PAVEMENT |
| ----- | CONSTRUCTION LIMITS |
| - - - - - | EXISTING RIGHT OF WAY |
| ————— | PERMANENT EASEMENT |
| - - - - - | TEMPORARY EASEMENT |
| ===== | REMOVE CURB AND GUTTER |



REMOVE BITUMINOUS PAVEMENT



REMOVE CONCRETE WALK



REMOVE BITUMINOUS WALK

GENERAL NOTES

1. SAWCUTTING FOR CONCRETE CURB AND GUTTER, CONCRETE WALK, AND BITUMINOUS WALK SHALL BE INCIDENTAL.

DRAWN BY:	IJZ
DESIGNED BY:	MGM
CHECKED BY:	MGM

I HEREBY CERTIFY THAT THIS SHEET 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.

SIGNATURE: Megan McDevitt
 PRINTED NAME: MEGAN G. MCDEVITT, PE
 DATE: 7/29/2026 LIC. NO. 64562

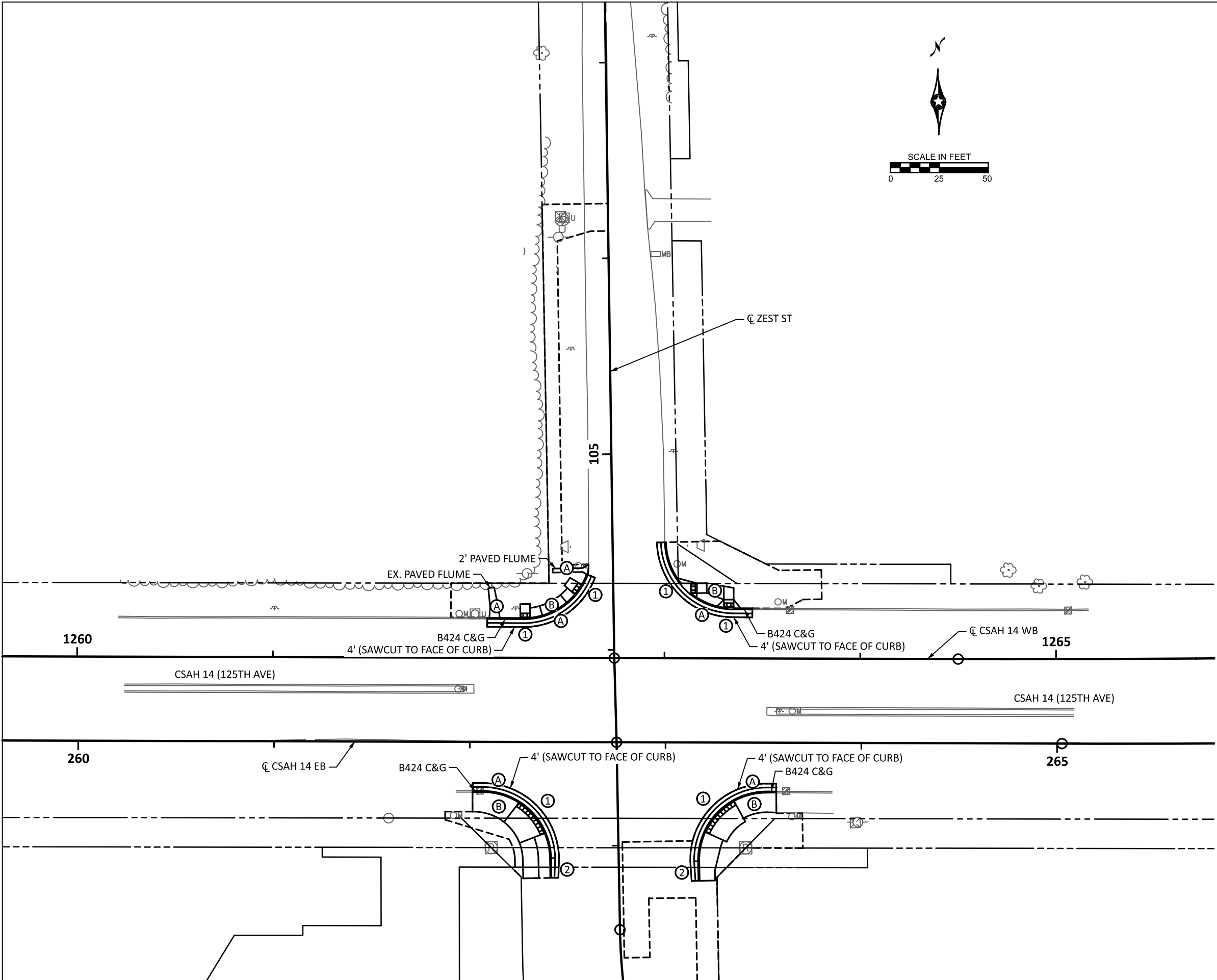


MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
 ANOKA COUNTY, MINNESOTA

REMOVAL PLAN

Sheet No. 8 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\05_Discipline\Roadway\03_Sheets\03-185cpp-001



LEGEND

- INPLACE PAVEMENT
- PROPOSED CONSTRUCTION
- CONSTRUCTION LIMITS
- EXISTING RIGHT OF WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT

- (A) INSET A
- (B) INSET B
- (1) CONCRETE PEDESTRIAN CURB RAMP WITH TRUNCATED DOMES (SEE INTERSECTION DETAILS)
- (2) 10' CURB TRANSITION. SEE INSETS AND DETAILS.

GENERAL NOTES

- ALL DIMENSIONS ARE TO FACE OF CURB OR EDGE OF BITUMINOUS UNLESS OTHERWISE NOTED.
- SEE INTERSECTION DETAILS FOR ADDITIONAL INFORMATION.

DRAWN BY: IJZ
DESIGNED BY: MGM
CHECKED BY: MGM

I HEREBY CERTIFY THAT THIS SHEET 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.

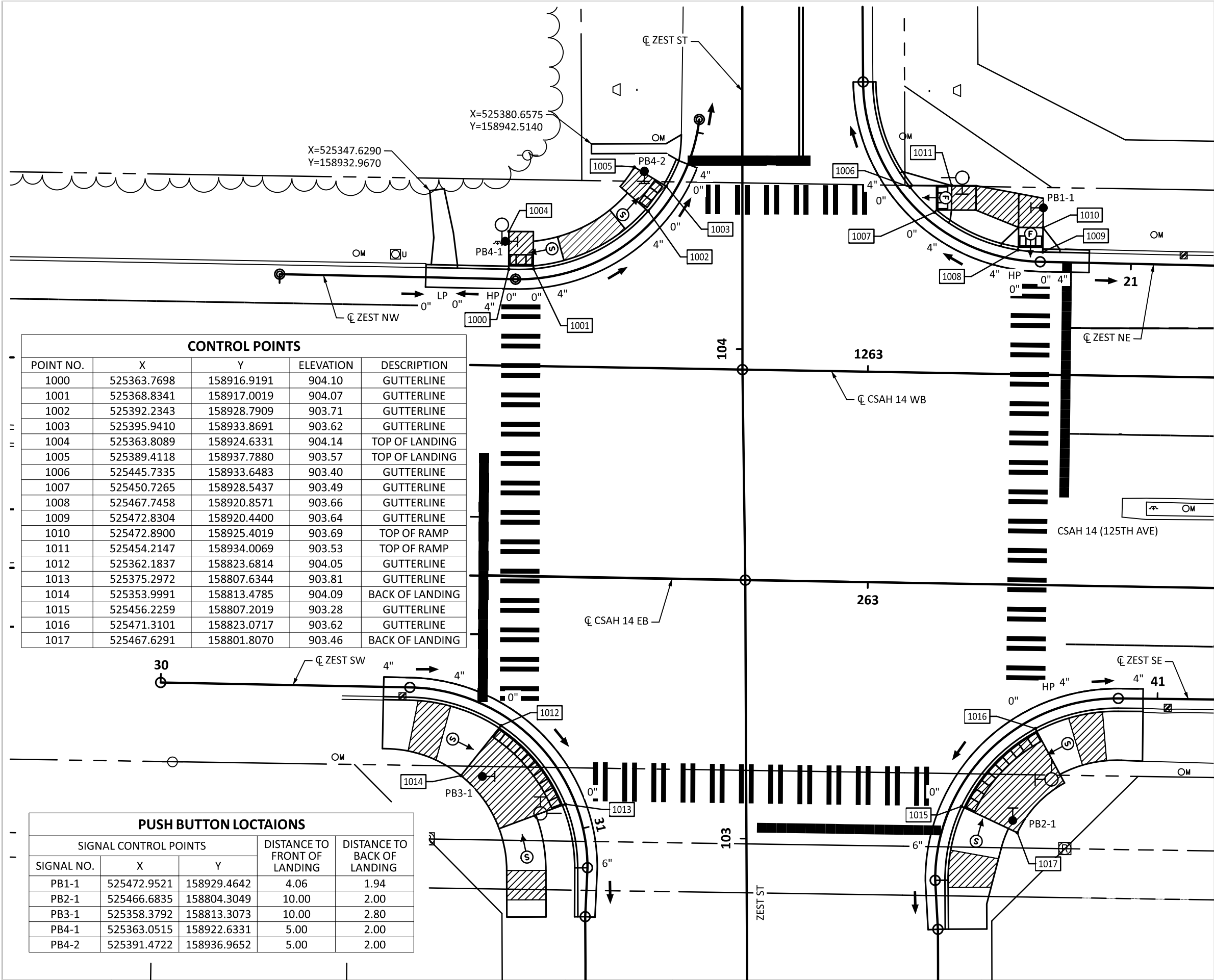
SIGNATURE: *Megan McDevitt*
PRINTED NAME: MEGAN G. MCDEVITT, PE
DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

CONSTRUCTION PLAN

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\03_Discipline\Roadway\03_Sheets\03-33394-000-185int-001



CONTROL POINTS

POINT NO.	X	Y	ELEVATION	DESCRIPTION
1000	525363.7698	158916.9191	904.10	GUTTERLINE
1001	525368.8341	158917.0019	904.07	GUTTERLINE
1002	525392.2343	158928.7909	903.71	GUTTERLINE
1003	525395.9410	158933.8691	903.62	GUTTERLINE
1004	525363.8089	158924.6331	904.14	TOP OF LANDING
1005	525389.4118	158937.7880	903.57	TOP OF LANDING
1006	525445.7335	158933.6483	903.40	GUTTERLINE
1007	525450.7265	158928.5437	903.49	GUTTERLINE
1008	525467.7458	158920.8571	903.66	GUTTERLINE
1009	525472.8304	158920.4400	903.64	GUTTERLINE
1010	525472.8900	158925.4019	903.69	TOP OF RAMP
1011	525454.2147	158934.0069	903.53	TOP OF RAMP
1012	525362.1837	158823.6814	904.05	GUTTERLINE
1013	525375.2972	158807.6344	903.81	GUTTERLINE
1014	525353.9991	158813.4785	904.09	BACK OF LANDING
1015	525456.2259	158807.2019	903.28	GUTTERLINE
1016	525471.3101	158823.0717	903.62	GUTTERLINE
1017	525467.6291	158801.8070	903.46	BACK OF LANDING

PUSH BUTTON LOCTAIONS

SIGNAL CONTROL POINTS			DISTANCE TO FRONT OF LANDING	DISTANCE TO BACK OF LANDING
SIGNAL NO.	X	Y		
PB1-1	525472.9521	158929.4642	4.06	1.94
PB2-1	525466.6835	158804.3049	10.00	2.00
PB3-1	525358.3792	158813.3073	10.00	2.80
PB4-1	525363.0515	158922.6331	5.00	2.00
PB4-2	525391.4722	158936.9652	5.00	2.00

LEGEND

- PROPOSED SIGNAL POLE
- PEDESTRIAN PUSH BUTTON STATION
- └ PEDESTRIAN PUSH BUTTON
- XXXX CONTROL POINTS
- ▨ TRUNCATED DOMES (SEE STANDARD PLATE 7038)
- ▩ CATCH BASIN
- X" CURB HEIGHT
- ▨ LANDING AREA - 4' X 4' MIN. DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS.
- Ⓢ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE BETWEEN 5.0% MINIMUM AND 8.3% MAXIMUM IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- Ⓣ INDICATES PEDESTRIAN RAMP - SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION SHOWN AND CROSS SLOPE SHALL NOT EXCEED 2.0%.
- ➔ DRAINAGE FLOW ARROW
- ① MAX. 2.0% SLOPE IN ALL DIRECTIONS

GENERAL NOTES

- MAINTAIN A MINIMUM 4' WIDE PEDESTRIAN ACCESS ROUTE OBSTRUCTION TO OBSTRUCTION AND/OR OBSTRUCTION TO FAR EDGE OF WALK.
- THE CROSS SLOPE OF THE PEDESTRIAN ACCESS ROUTE SHALL NOT EXCEED 0.020 FT/FT
- PROVIDE A SAWCUT (INCIDENTAL) AT ALL CONCRETE WALK AND BITUMINOUS TRAIL REMOVAL LIMITS.
- ALL CURB RAMPS AND LANDING AREAS SHALL BE 6" CONCRETE WALK ON 3" AGGREGATE BASE CLASS 5.
- LANDINGS SHALL BE CONNECTED TO EXISTING SIDEWALKS MAINTAINING A 4' WIDE (MINIMUM) PEDESTRIAN ACCESS ROUTE WITH A CROSS SLOPE THAT DOES NOT EXCEED 0.020 FT/FT AND A RUNNING SLOPE THAT DOES NOT EXCEED 0.050 FT/FT.
- ALL DISTURBED AREAS IN CUT SECTION THAT ARE NOT OTHERWISE SURFACED SHALL BE GRADED FLUSH WITH NEW SURFACING AT A 1:6 SLOPE FOR A DISTANCE OF UP TO 5 FEET FROM THE EDGE OF WALK TO MATCH SURROUNDING CONTOURS.

DRAWN BY: IJZ	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: <i>Megan G. McDevitt</i>
DESIGNED BY: MGM		PRINTED NAME: MEGAN G. MCDEVITT, PE
CHECKED BY: MGM		DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY

INTERSECTION DETAILS
125TH AVE AND ZEST ST

Sheet No. 10 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\1R-0333394-000\05_Discipline\Roadway\03_Sheets\1R-0333394-000-185int-001

ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		BEARING
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA					EASTING (X)	NORTHING (Y)	
			THETA	DEGREE	ST	LT	LS			
ALIGNMENT: ZEST_NW										
	START	10+00.00 R1						525316.993	158915.9043	
	PC	10+48.17 R1						525365.1522	158914.8896	S88.793°E
	HPI	10+81.76 R1	84.46 LT	154.85	37	33.59	54.54	525398.7299	158914.182	PI
	CC							525365.9316	158951.8814	
	PT	11+02.71 R1						525402.6754	158947.5347	N6.747°E

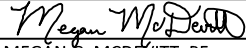
ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		BEARING
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA					EASTING (X)	NORTHING (Y)	
			THETA	DEGREE	ST	LT	LS			
ALIGNMENT: ZEST_NE										
	START	20+00.00 R1						525435.9497	158979.6222	
	PC	20+24.44 R1						525436.1211	158955.1825	S0.402°E
	HPI	20+60.38 R1	88.34 LT	154.85	37	35.94	57.05	525436.3732	158919.2397	PI
	CC							525473.1202	158955.442	
	PT	20+81.49 R1						525472.3083	158918.4509	S88.743°E
	END	21+20.59 R1						525511.4019	158917.5929	S88.743°E

ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		BEARING
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA					EASTING (X)	NORTHING (Y)	
			THETA	DEGREE	ST	LT	LS			
ALIGNMENT: ZEST_SW										
	START	30+00.00 R1						525292.6992	158832.5052	
	PC	30+50.90 R1						525343.5872	158831.4962	S88.864°E
	HPI	30+87.03 R1	88.64 RT	154.85	37	36.13	57.24	525379.7104	158830.7799	PI
	CC							525342.8537	158794.5034	
	PT	31+08.14 R1						525379.8534	158794.6499	S0.227°E
	HPI	31+18.15 R1						525379.393	158784.648	S2.636°W
	END	31+49.92 R1						525379.5188	158752.8777	S0.227°E

ALIGNMENT TABULATION										
POINT NUMBER	POINT	STATION	CIRCULAR CURVE DATA					COORDINATES		BEARING
			DELTA	DEGREE	RADIUS	TANGENT	LENGTH			
			SPIRAL CURVE DATA					EASTING (X)	NORTHING (Y)	
			THETA	DEGREE	ST	LT	LS			
ALIGNMENT: ZEST_SE										
	START	40+00.00 R1						525451.4961	158758.7529	
	HPI	40+23.34 R1						525451.4037	158782.0894	N0.227°W
	PC	40+33.35 R1						525450.8641	158792.0874	N3.089°W
	HPI	40+70.87 R1	90.81 RT	154.85	37	37.52	58.64	525450.7156	158829.6111	PI
	CC							525487.8638	158792.2339	
	PT	40+91.99 R1						525488.2377	158829.232	S89.421°E
	END	41+28.27 R1						525524.5168	158828.8654	S89.421°E

DRAWN BY: IJZ
DESIGNED BY: MGM
CHECKED BY: MGM

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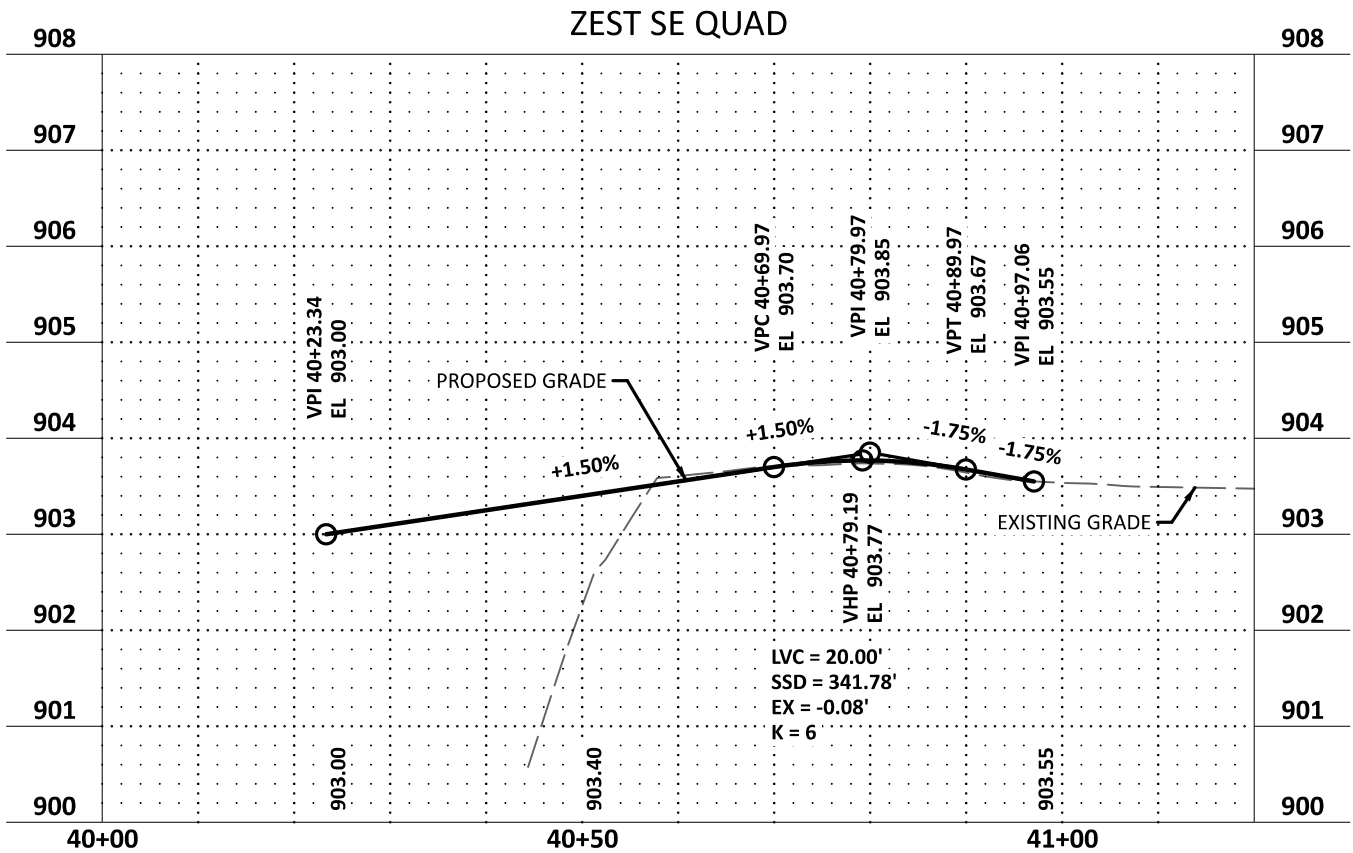
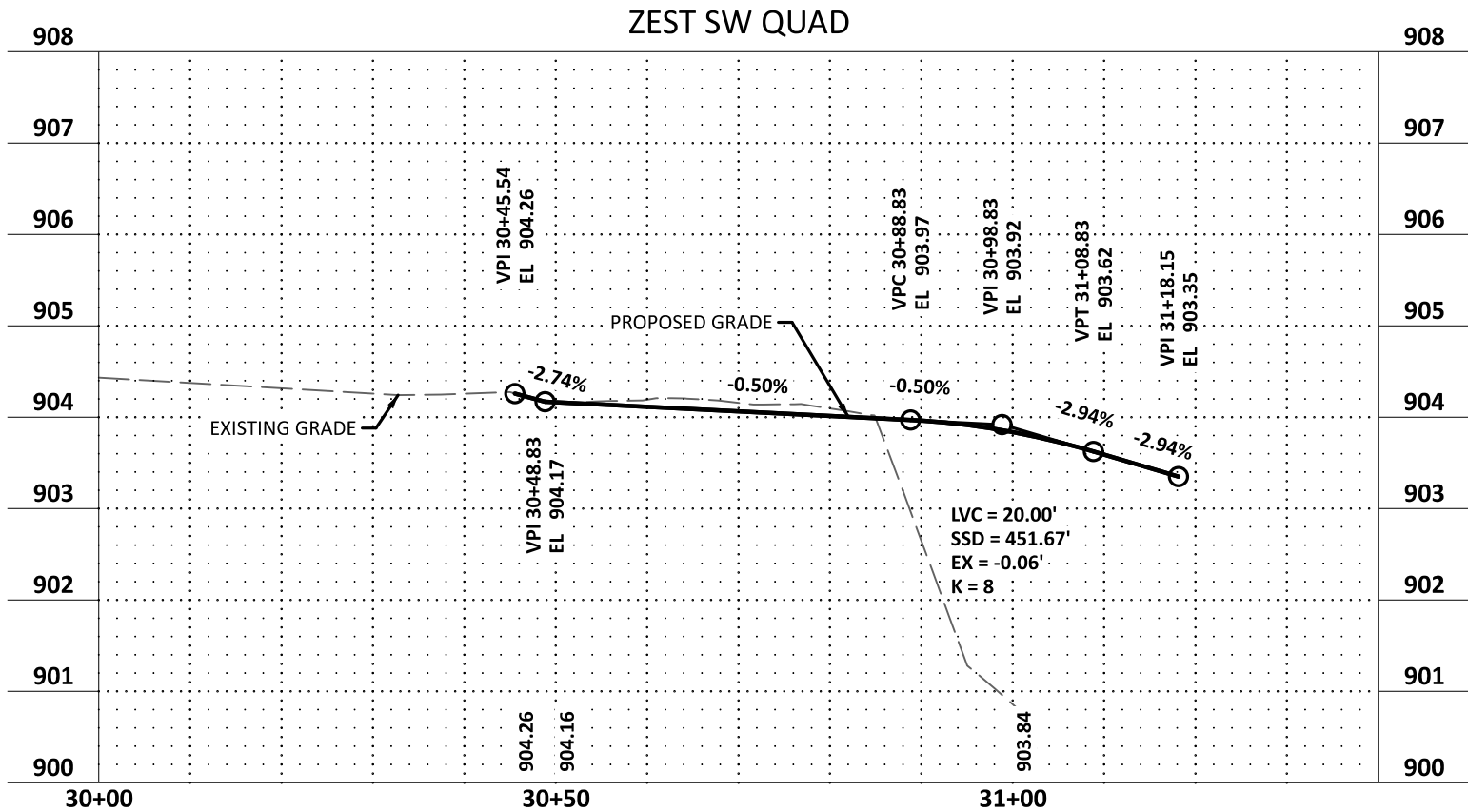
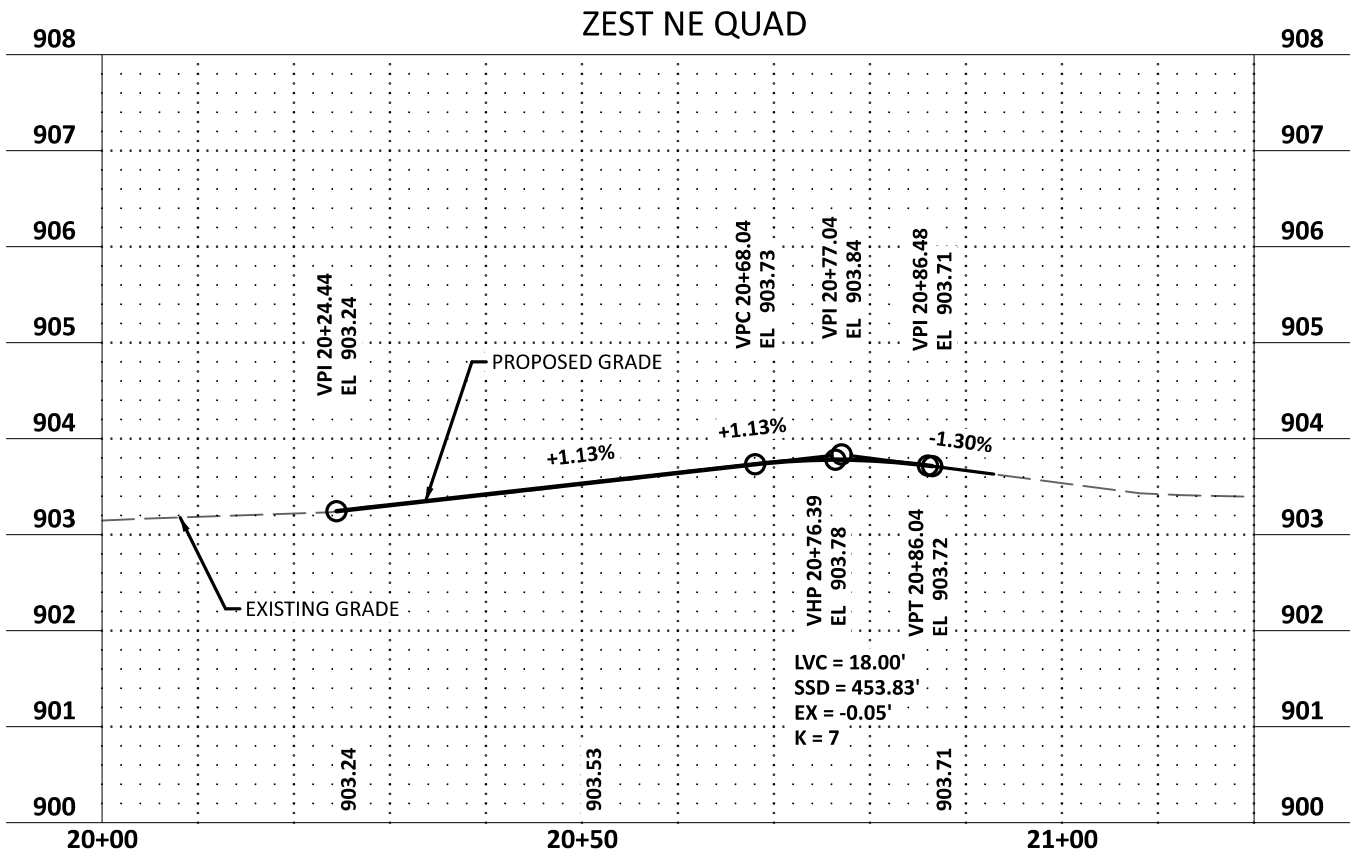
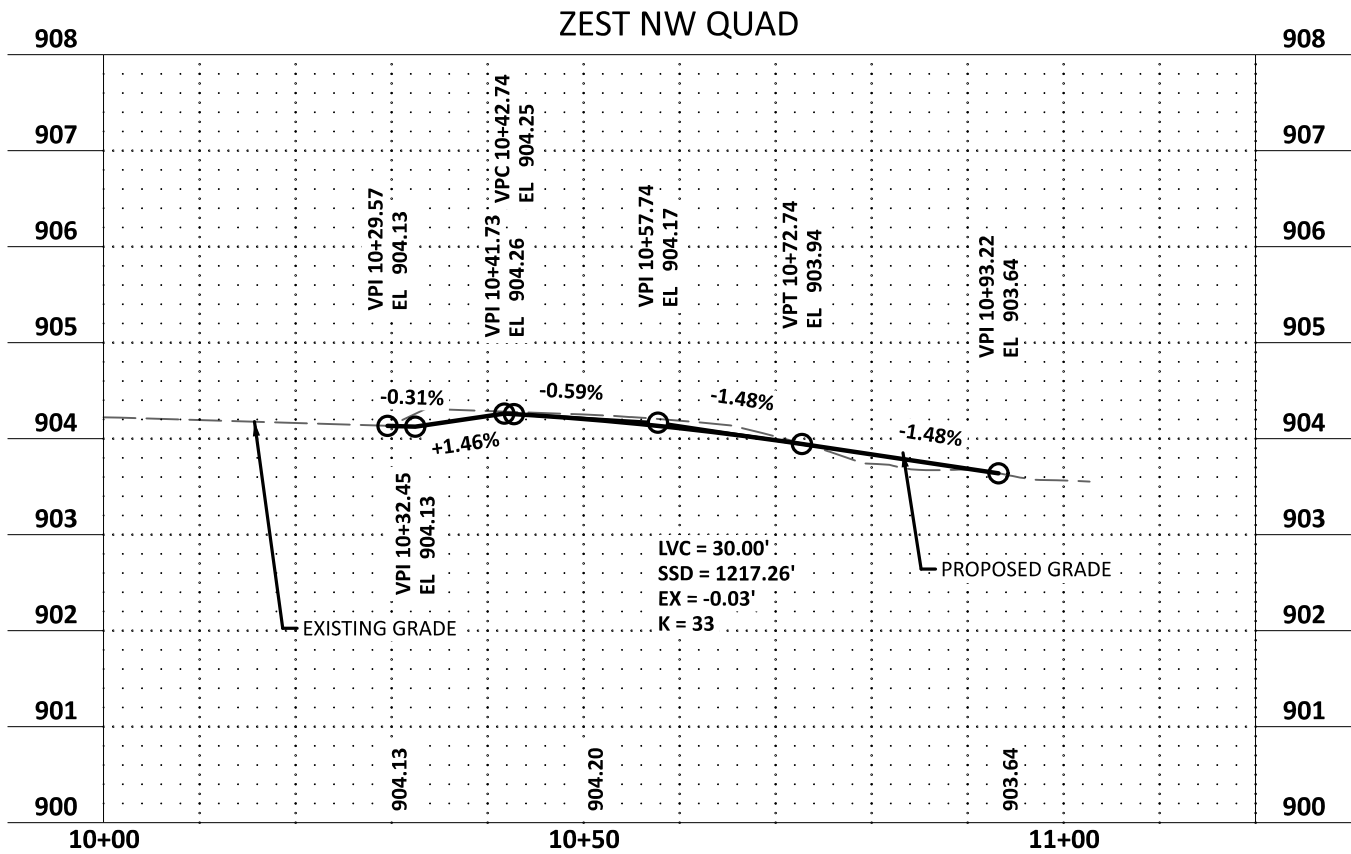
SIGNATURE: 
PRINTED NAME: MEGAN G. MCDEVITT, PE
DATE: 7/29/2026 LIC. NO. 64562



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY

INTERSECTION DETAILS
QUADRANT ALIGNMENT TABULATIONS

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\1R-033394-000\05_Discipline\Roadway\03_Sheets\1R-033394-000-185\int-001



DRAWN BY: IJZ	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE: <i>Megan McDevitt</i>
DESIGNED BY: MGM		PRINTED NAME: MEGAN G. MCDEVITT, PE
CHECKED BY: MGM		DATE: 7/29/2026 LIC. NO. 64562

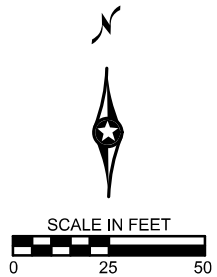
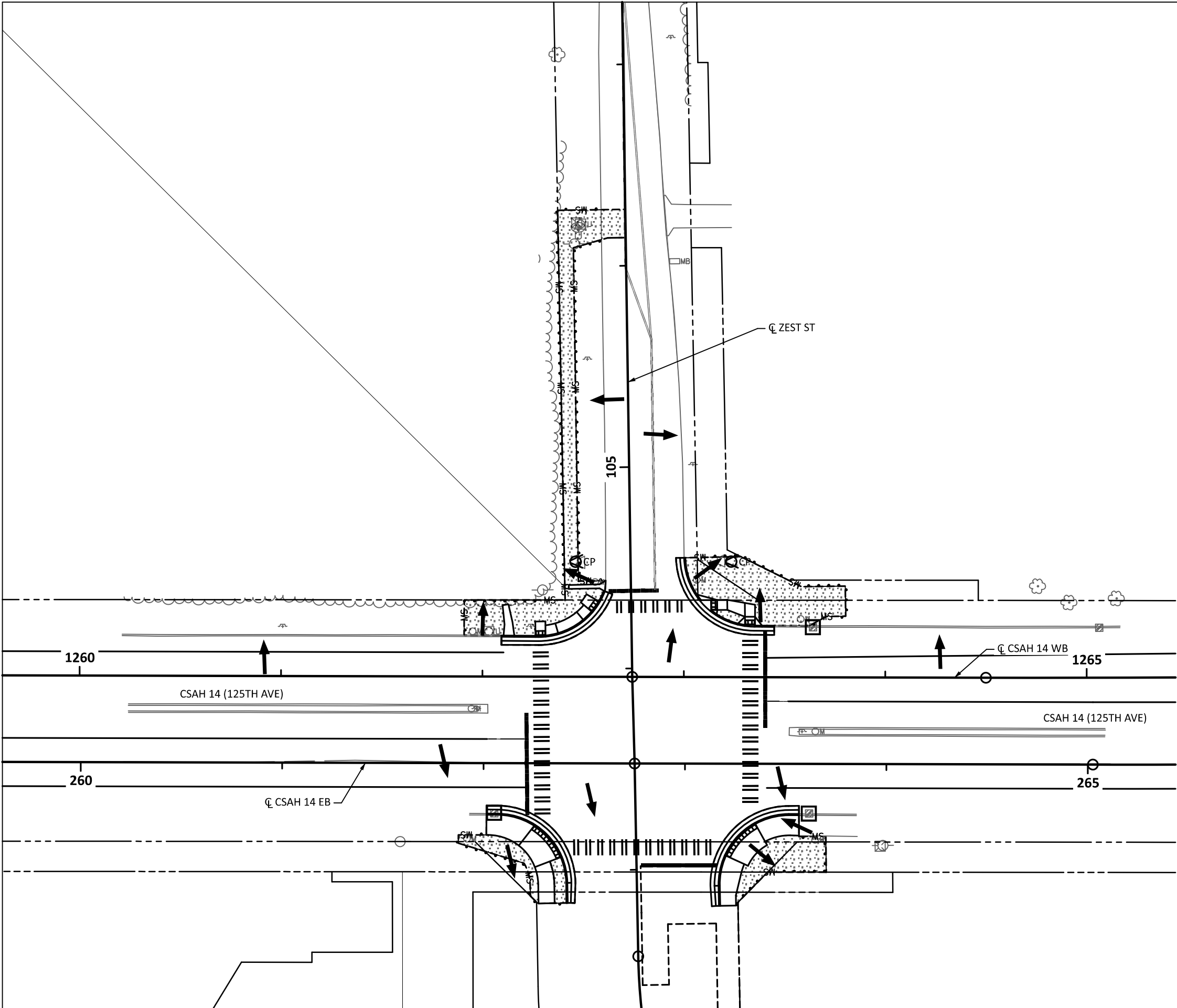


MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY

INTERSECTION DETAILS
QUADRANT PROFILES

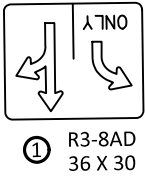
Sheet No. 12 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\0333394-000\05_Discipline\Roadway\03_Sheets\R-0333394-000-325erc-001



LEGEND

- SURFACE DRAINAGE DIRECTION
- SILT ENCE, TYPE MS
- CULVERT END CONTROLS
- STORM DRAIN INLET PROTECTION
- INPLACE PAVEMENT
- CONSTRUCTION LIMITS
- EXISTING RIGHT OF WAY
- PERMANENT EASEMENT
- TEMPORARY EASEMENT
- PERMANENT:
SEED SOUTHERN BOULEVARD
(160LBS/ACRE)



① FURNISH AND INSTALL

 OCTAGON - PREF THERMO

 CIRCLE - MULTI-COMP

1ST DIGIT WIDTH
 4", 8", ETC.
 2ND DIGIT PATTERN
 S = SOLID
 B = BROKEN
 D = DOUBLE
 T = DOTTED

MULTI-COMP
 3RD DIGIT COLOR
 W = WHITE
 Y = YELLOW
 B = BLACK
 G = GROUND IN

EXAMPLE:  = 4" SOLID LINE
 WHITE - MULTI-COMP

**CROSSWALK MARKING - PREF THERMO
GR IN ESR**

DESIGNED BY: MGM

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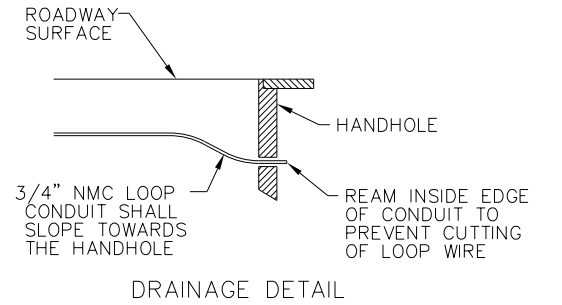
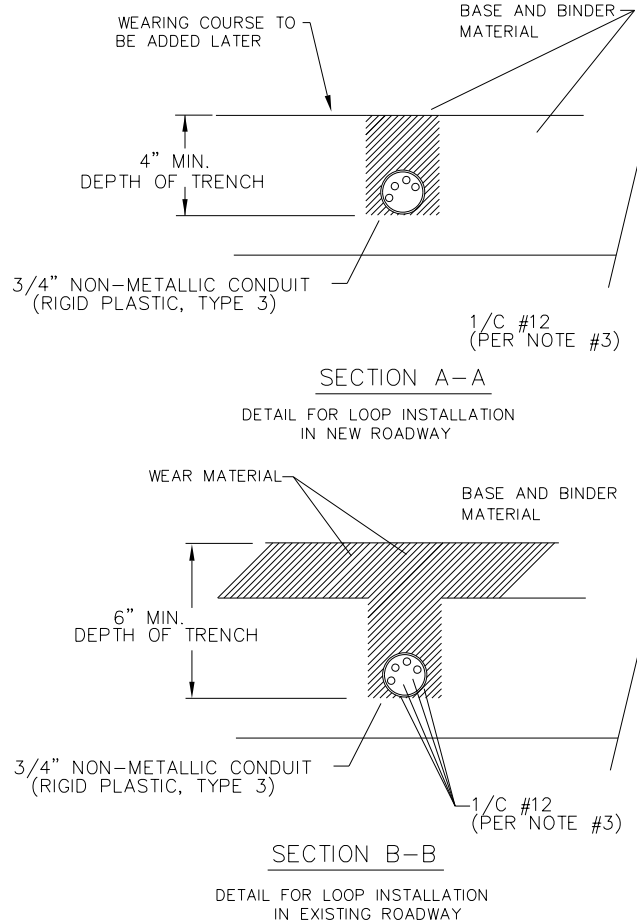
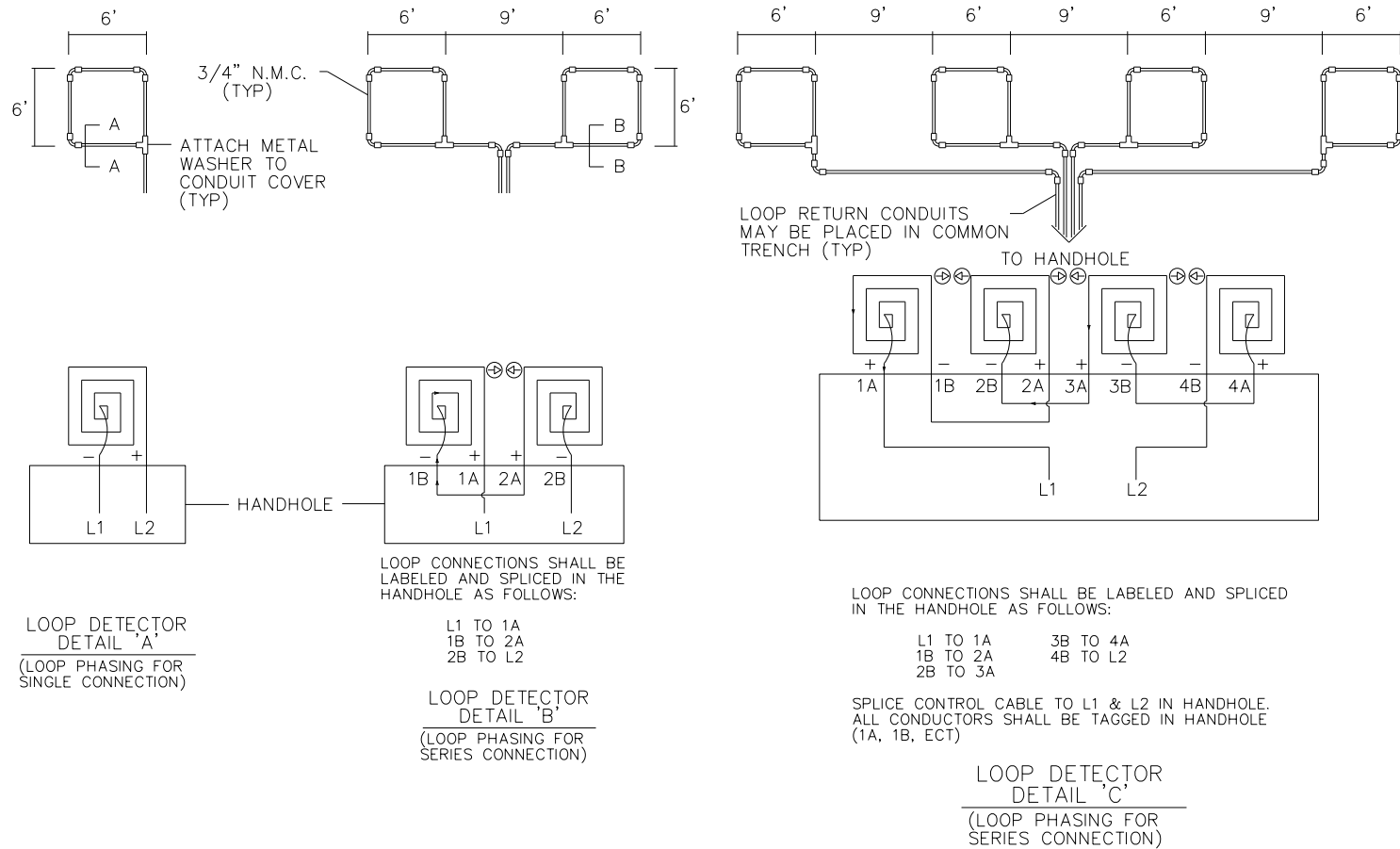
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MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE AND ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

SIGNING AND STRIPING PLAN

Sheet No. 14 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\03-Signals\03-000-445sgp-det1-001



- LOOP DETECTOR WIRING
- 1) ALL CORNERS SHALL BE 90° CONDUIT BENDS.
 - 2) CONNECT WIRES IN HANDHOLES USING SPLICE KIT METHOD DESCRIBED IN THE SPECIAL PROVISIONS.
 - 3) LOOP DETECTOR WIRES SHALL BE #12 AWG CROSSED LINKED POLYETHYLENE (XLP). SEE SPECIAL PROVISIONS.
 - 4) LOOP LEAD IN WIRES SHALL BE TWISTED A MIN. OF (5) TURNS PER FOOT THROUGH THE CONDUIT TO THE HANDHOLE.
 - 5) NMC DESIGNATES NON-METALLIC CONDUIT (SPEC. 3803)
 - 6) LOOPS 6' x 6' THRU 6' x 14' SHALL HAVE (4) TURNS.
 - 7) LOOPS 6' x 15' AND LARGER SHALL HAVE (2) TURNS.

LEGEND OF SYMBOLS	
CONTROLLER AND SERVICE EQUIP. NO's	(A)
SIGNAL BASE NO.	(B)
SIGNAL FACE NO.	(C)
LUMINAIRE NO.	(D)
CONTROLLER AND CABINET	(E)
CONTROLLER AND CABINET - IN PLACE	(F)
HANDHOLE	(G)
HANDHOLE - IN PLACE	(H)
RIGID STEEL CONDUIT (RSC)	(I)
RIGID STEEL CONDUIT (RSC) - IN PLACE	(J)
SIGNAL FACE WITH BACKGROUND SHIELD	(K)
SIGNAL FACE W/O BACKGROUND SHIELD	(L)
SIGNAL FACE - IN PLACE	(M)
PEDESTRIAN INDICATORS	(N)
PEDESTRIAN INDICATORS - IN PLACE	(O)
PEDESTRIAN PUSH BUTTONS ON PEDESTAL OR POLE	(P)
PEDESTRIAN PUSH BUTTON STATION	(Q)
TRAFFIC SIGNAL PEDESTAL	(R)
TRAFFIC SIGNAL PEDESTAL - INPLACE	(S)
TRAFFIC SIGNAL POLE AND MAST ARM	(T)
TRAFFIC SIGNAL POLE AND MAST ARM - IN PLACE	(U)
STREET LIGHT POLE AND LUMINAIRE	(V)
STREET LIGHT POLE AND LUMINAIRE - IN PLACE	(W)
MAST ARM AND LUMINAIRE	(X)
MAST ARM AND LUMINAIRE - INPLACE	(Y)
WOOD POLE	(Z)
WOOD POLE - IN PLACE	(AA)
SOURCE OF POWER	(AB)
RAILROAD SIGNAL - IN PLACE	(AC)
RIGHT OF WAY LINE	(AD)
CENTERLINE	(AE)
EDGE OF ROADWAY	(AF)
SHOULDERLINE	(AG)
CURB LINE	(AH)
STOP BAR	(AI)
EMERGENCY VEHICLE PREEMPTION DETECTOR	(AJ)

ABBREVIATIONS	
3-1(EG)	SIGNAL HEAD PHASE "3" - NO. "1"
BR. GR.	BARE GROUND
CH. SW.	CHECK SWITCH
CLR	CLEAR
D2-1(EG)	DETECTOR PHASE "2" - NO. "1"
DWK	DON'T WALK
EQG	EQUIPMENT GROUND
EVP	EMERGENCY VEHICLE PRE-EMPTION
F&I	FURNISH AND INSTALL
FL	FLASH/FLASHING
G	GREEN
GLTA	GREEN LEFT TURN ARROW
GRN	GREEN
GR. R	GROUND ROD
GRTA	GREEN RIGHT TURN ARROW
GTHA	GREEN THRU ARROW
HH	HANDHOLE
HPS	HIGH PRESSURE SODIUM
JB	JUNCTION BOX
LUM	LUMINAIRE
NEU	NEUTRAL
NMC	NONMETALLIC CONDUIT
P2-1(EG)	PED INDICATION PHASE "2" - NO. "1"
PB	PUSH BUTTON
PB2-1(EG)	PUSH BUTTON PHASE "2" - NO. "1"
PEC	PHOTOELECTRIC CELL
PED	PEDESTRIAN
R	RED
R&S	REMOVE AND SALVAGE
RLTA	RED LEFT TURN ARROW
RRTA	RED RIGHT TURN ARROW
RSC	RIGID STEEL CONDUIT
SOP	SOURCE OF POWER
SPR	SPARE
ST. LHT	STREET LIGHT
STA	STATION
SW	SWITCH
SWD	SWITCHED
S&R	SALVAGE AND REINSTALL
TDW	TELEPHONE DROP WIRE
WLK	WALK
YEL	YELLOW
YLTA	YELLOW LEFT TURN ARROW
YRTA	YELLOW RIGHT TURN ARROW
YTHA	YELLOW THRU ARROW

CONDUCTOR COLOR CODE

R	RED
O	ORANGE
BL	BLUE
WH	WHITE
R/BLK	RED WITH BLACK TRACER
O/BLK	ORANGE WITH BLACK TRACER
BL/BLK	BLUE WITH BLACK TRACER
WH/BLK	WHITE WITH BLACK TRACER
BLK	BLACK
BLK/WH	BLACK WITH WHITE TRACER
G/BLK	GREEN WITH BLACK TRACER

TABULATION OF SIGNAL QUANTITIES					
ITEM NO	ITEM	UNIT	TOTAL ESTIMATED QUANTITY	PARTICIPATION	
				SAP 002-XXX-XXX	LOCAL FUNDS
2565	EMERGENCY VEHICLE PREEMPTION SYSTEM	LS	1		
2565	TRAFFIC CONTROL SIGNAL SYSTEM	SYSTEM	1		

TRAFFIC SIGNAL STANDARD PLATES	
THESE TRAFFIC SIGNAL STANDARD PLATES AS APPROVED BY FHWA SHALL APPLY:	
PLATE NO.	DESCRIPTION
8119 C	GROUND MOUNTED CABINET FOUNDATION
TRAFFIC SIGNAL STANDARD PLATES (SEE DETAILS)	
8121 H	TRANSFORMER BASE & POLE BASE PLATE (2 SHEETS)
8122 F	PEDESTAL AND PEDESTAL BASE (FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS)
8123 G	POLE & MAST ARM-LUMINAIRES & TRAFFIC LIGHTS ASSEMBLY (2 SHEETS)
8126 L	POLE FOUNDATION (PA90 & PA100)

DRAWN BY: MAS	I HEREBY CERTIFY THAT THIS SHEET 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.	SIGNATURE:
DESIGNED BY: MAS		PRINTED NAME: SEAN DELMORE, PE, PTOE
CHECKED BY: MAS		DATE: 7/29/2026 LIC. NO. 40945



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

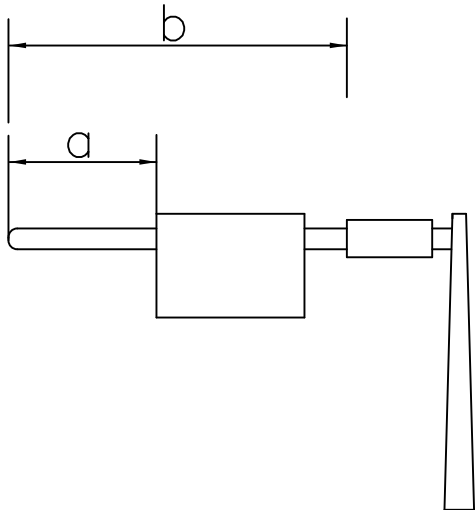
TRAFFIC CONTROL SIGNAL SYSTEM
COUNTY STANDARDS

Sheet No. 15 of 26 Sheets

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\R-033394-000-445sgp-det1-001

SIGNS FOR TRAFFIC SIGNAL SYSTEM									
SIGN PANELS TYPE D (SIGNALS) (FURNISH & INSTALL)									
SIGN PANEL	POLE NO.	a (FT)	b (FT)	SIZE (IN)	MOUNTING BRACKET		UNIT AREA (SQ. FT)	NO. REQ.	PANEL LEGEND
					QUANTITY	SPACING (1)			
D2	1		20'	84" X 18"	2	28"	12.75	1	125TH AVE. NE
D1	2		40'	72" X 18"	2	24"	9.00	1	ZEST ST NE
D2	3		30'	84" X 18"	2	28"	12.75	1	125TH AVE. NE
D1	4		30'	72" X 18"	2	24"	9.00	4	ZEST ST NE
TOTAL QUANTITIES							36.00		

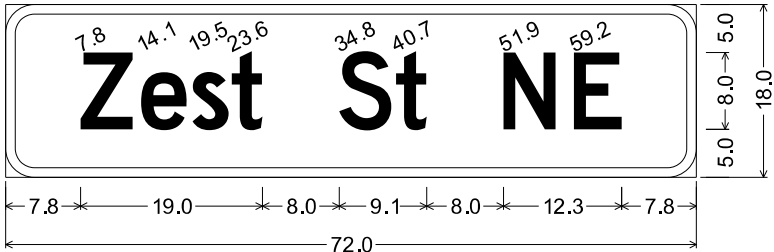
(1) = SPACING BETWEEN STIFFENERS SHALL NOT EXCEED 36 INCHES AND SHALL BE UNIFORMLY SPACED. SEE STANDARD SIGNS MANUAL, CURRENT EDITION, PAGE 105A FOR BRACKET SPACING REQUIREMENTS.
F&I R10-X12 LEFT TURN YIELD ON FLASING YELLOW ARROW SIGNS (36"X42")



GENERAL SIGNING NOTES:

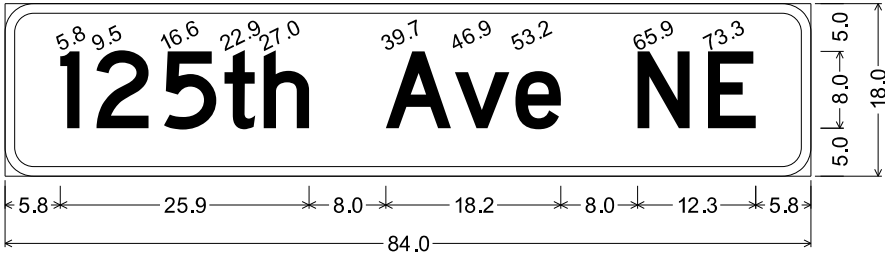
- 1) COLOR FOR ALL TYPE D SIGNS SHALL BE WHITE LEGEND AND BORDER ON GREEN BACKGROUND, FULLY REFLECTORIZED.
- 2) CORNERS EXTENDING BEYOND THE BORDER SHALL NOT BE TRIMMED. CORNERS OF STANDARD SIGN PANELS WITH MARGINS SHALL BE TRIMMED.
- 3) STANDARD SIGNS MANUAL, CURRENT EDITION, PAGE 105A, AND SPECIAL PROVISIONS.
- 4) SEE STANDARD SIGNS MANUAL FOR DETAILED DRAWINGS OF TYPE C SIGN PANELS.
- 5) FURNISHING AND INSTALLING NEW TYPE C AND TYPE D SIGNS SHALL BE INCLUDED AS PART OF BID ITEM FOR "TRAFFIC CONTROL SIGNAL SYSTEM". SEE SPECIAL PROVISIONS.
- 6) MAST ARM POLE MOUNTED AND PEDESTAL POLE MOUNTED SIGN PANELS SHALL BE FURNISHED AND INSTALLED BY CONTRACTOR USING CONTRACTOR FURNISHED AND INSTALLED MOUNTING HARDWARE.
- 7) ④ = INSTALL SIGN PANEL ON TRAFFIC SIGNAL PEDESTAL POLE.
- 8) SEE STANDARD SIGNS MANUAL FOR ARROW DETAILS.
- 9) ALL NEW TYPE C AND D SIGN PANELS SHALL BE FABRICATED USING HP SHEETING. SEE SPECIAL PROVISIONS.

D1



3.0" Radius, 1.0" Border, White on Green;
"Zest St NE", D 2K;
SIGN PANEL DIMENSIONS ARE IN INCHES

D2



3.0" Radius, 1.0" Border, White on Green;
"125th Ave NE", D 2K;
SIGN PANEL DIMENSIONS ARE IN INCHES

NOTE: THE SIGNS ON THIS DETAIL SHEET ARE SIGNS THAT ARE MOUNTED ON THE SIGNAL MAST ARM OR SIGNAL POLES. THESE SIGNS ARE INCLUDED IN THE LUMP SUM PAYMENT FOR THE TRAFFIC CONTROL SIGNAL SYSTEM G. ADDITIONAL GROUND MOUNTED SIGNS ARE REQUIRED AND ARE INCLUDED WITH THE SIGNING PLAN AND ARE PAID FOR SEPARATELY AS INDICATED WITH THE SIGNING PLAN.

DRAWN BY:	MAS
DESIGNED BY:	MAS
CHECKED BY:	MAS

I HEREBY CERTIFY THAT THIS SHEET 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.

SIGNATURE:
PRINTED NAME: SEAN DELMORE, PE, PTOE
DATE: 7/29/2026 LIC. NO. 40945

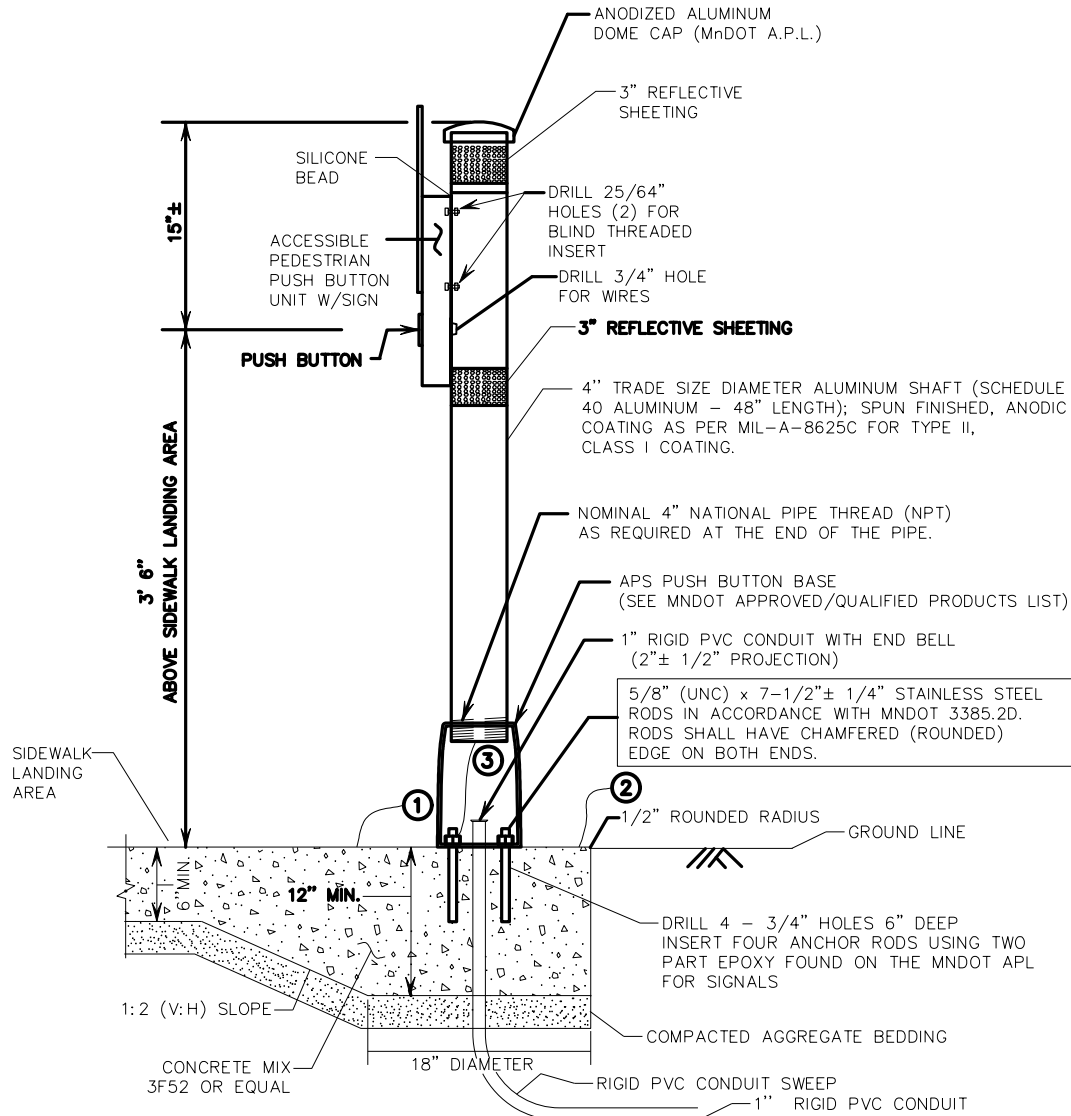


MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

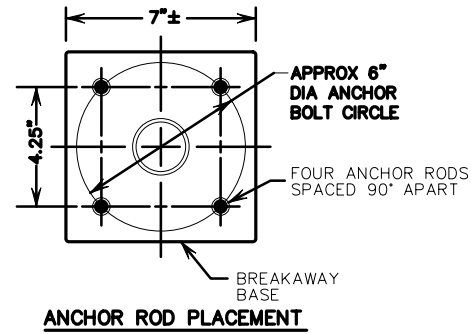
TRAFFIC CONTROL SIGNAL SYSTEM
MAST ARM SIGNS

Sheet No. 16 of 26 Sheets

APS PUSH BUTTON STATION



- ① THE PUSH BUTTON STATION FOUNDATION IS CONSTRUCTED AS PART OF THE SIDEWALK. INCREASE THE SIDEWALK THICKNESS TO 12" MINIMUM TO PROVIDE FOR THE PUSH BUTTON STATION FOUNDATION.
- ② ENSURE CONCRETE CONTROL JOINTS AND EDGE OF CONCRETE WALK ARE A MINIMUM 9" FROM THE CENTER OF THE PUSH BUTTON FOUNDATION.
- ③ INSTALL MANUFACTURER PROVIDED CABLE TETHER ASSEMBLY IN ACCORDANCE WITH MANUFACTURER INSTALLATION INSTRUCTIONS.



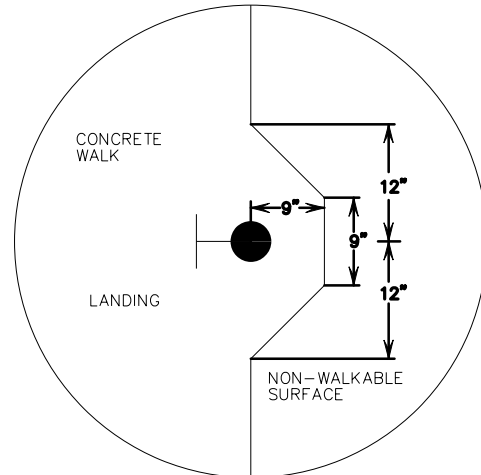
CONSTRUCTION NOTES:

- PLACEMENT AND ORIENTATION OF THE PUSH BUTTON STATION IS CRITICAL. MOUNT THE BUTTON SO THAT THE FACE IS PARALLEL WITH THE ASSOCIATED CROSSWALK; SCREW IN POST TO A TIGHTENED POSITION BEFORE MOUNTING ACCESSIBLE PEDESTRIAN PUSH BUTTON UNIT TO THE POST.
- ORIENT ACCESS OPENING ON THE BREAKAWAY PEDESTAL DIRECTLY BELOW THE APS BUTTON.
- PLUMB THE PUSH BUTTON STATION WITH LEVELING SHIMS IN ACCORDANCE WITH STANDARD PLATE 8129.
- BLIND THREADED INSERTS (RIVET NUT) MUST BE INSERTED USING MANUFACTURERS SPECIFIC INSTALLATION TOOL. NO OTHER METHOD OF INSTALLATION IS ACCEPTABLE.
- BLIND THREADED INSERTS SHALL BE ZINC PLATED STEEL WITH 1/4 – 20 UNC THREADS. INSERT SHALL BE SUITABLE FOR USE ON A MOUNTING SURFACE WALL THICKNESS OF .337". APPROVED BLIND THREADED INSERTS CAN BE FOUND ON THE MN/DOT APPROVED PRODUCTS LIST (A.P.L.) FOR SIGNALS.
- APS MOUNTING BOLTS SHALL BE 1/4 – 20 STAINLESS STEEL. APPLY BRUSH ON ANTI SEIZE COMPOUND TO BOLTS PRIOR TO ASSEMBLY.
- APPLY A BEAD OF 100% SILICONE SEALANT ALONG THE TOP OF THE PUSH BUTTON UNIT WHERE IT COMES IN CONTACT WITH THE 4" POST.
- THE REFLECTIVE SHEETING SHALL BE WHITE AT INTERSECTION CORNERS AND SHALL BE YELLOW WHEN USED IN CENTER MEDIANS. SEE MN/DOT SIGNING APPROVED PRODUCTS LIST (A.P.L.) FOR APPROVED TUBE DELINEATOR SHEETING.
- ANTI-SEIZE COMPOUND MUST BE USED ON ALL THREADED BOLTS WHEN INSTALLING PEDESTRIAN PUSH BUTTON STATIONS.

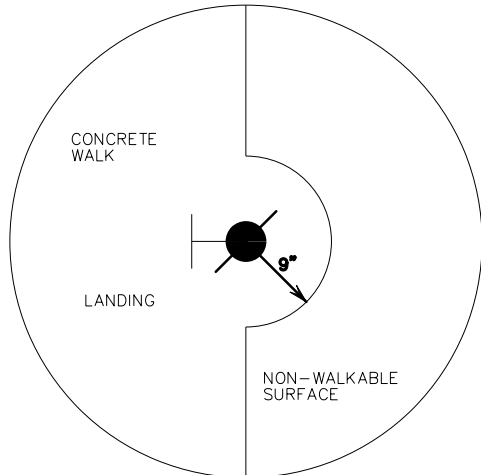
APS PB AT THE EDGE OF WALK

CONTRACTOR MUST USE OPTION 1 OR 2 WHEN THE APS PUSH BUTTON IS SHOWN AT THE EDGE OF WALK. OPTION USED (OR SELECTED) MUST BE THE SAME THROUGHOUT THE ENTIRE PROJECT.

OPTION 1



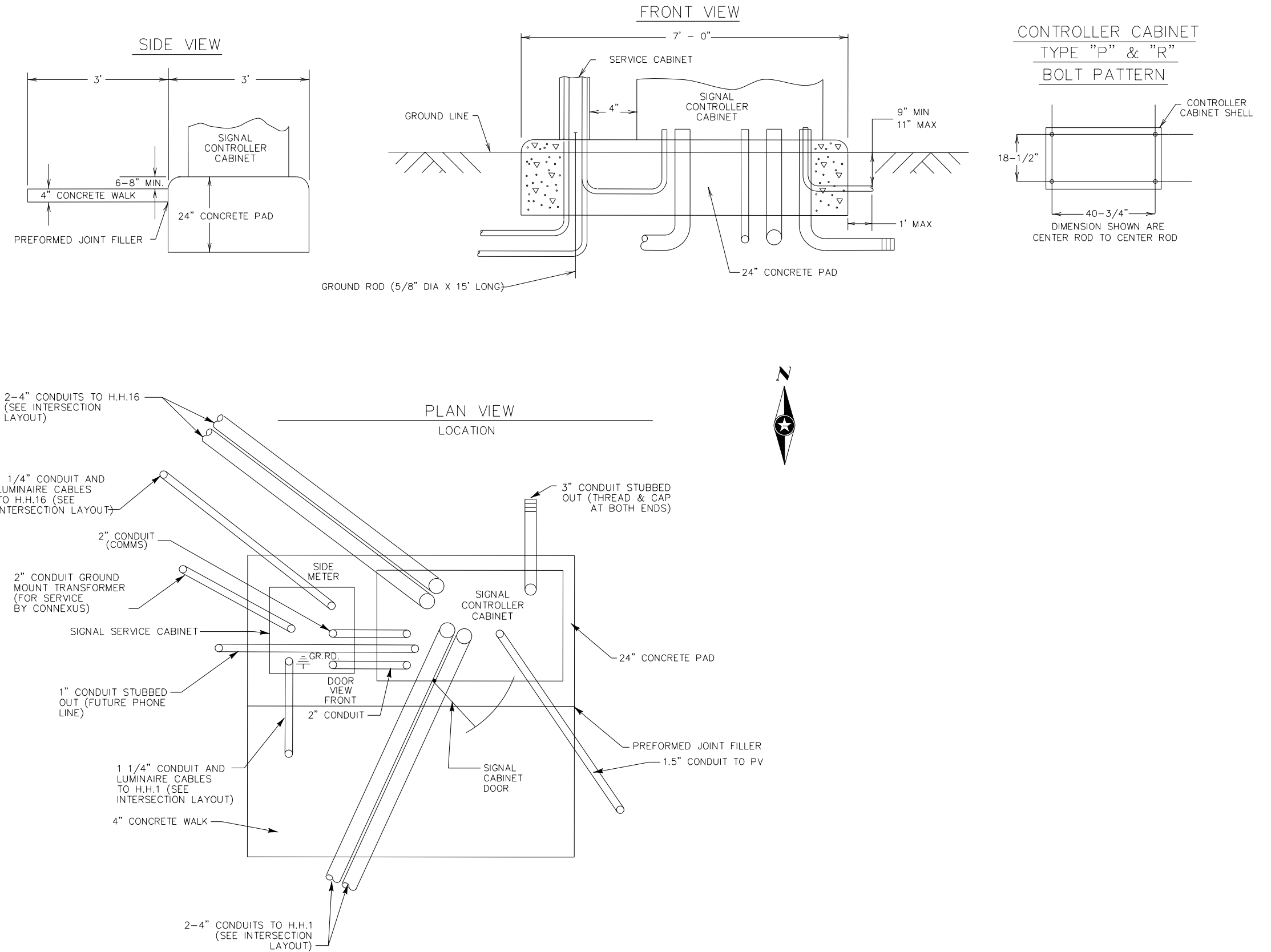
OPTION 2



TYPICAL PAD WITH CONTROLLER CABINET AND SERVICE CABINET
SEE INTERSECTION LAYOUT FOR CABLE INFORMATION (NOT TO SCALE)

NOTES:

1. THE ANCHOR RODS, NUTS AND WASHERS FOR THE COUNTY FURNISHED CONTROLLER AND CABINET SHALL BE FURNISHED BY THE COUNTY AND INSTALLED BY THE CONTRACTOR.
2. THE UPPER PART OF THE NEW EQUIPMENT PAD SHALL BE BEVELLED OR CHAMFERED IN A NEAT MANNER AS DIRECTED BY THE ENGINEER.
3. THE TOP OF THE CONDUITS SHALL BE THREADED AND CAPPED AFTER INSTALLATION (UNTIL CABLES ARE INSTALLED).
4. CONDUIT SHALL PROJECT A MINIMUM OF 2" ABOVE CONCRETE AND SHALL BE LOCATED INSIDE OF THE CABINET WHERE DIRECTED BY THE ENGINEER, BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.).
5. CONCRETE MIX 3F52 OR EQUAL SHALL BE USED FOR THE EQUIPMENT PAD AND SIDEWALK.
6. CONDUITS WITH BOTH ENDS TERMINATING WITHIN THE PAD SHALL NOT BE INSTALLED BELOW THE CONCRETE.
7. THE EXACT LOCATION OF CONDUITS WITHIN THE PAD SHALL BE DETERMINED BY THE ENGINEER IN THE FIELD.
8. ANCHOR RODS SHALL PROJECT A MINIMUM OF 3" ABOVE THE CONCRETE BUT SHALL NOT INTERFERE WITH THE CABINET FUNCTIONS (SUPPORTING MEMBERS, ETC.).
9. CONTRACTOR SHALL PROVIDE MINIMUM 4-INCH CLEARANCE BETWEEN CONTROLLER AND SERVICE CABINETS ON THE EQUIPMENT PAD FOUNDATION AS SHOWN.



DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\R-033394-000-445sgp-det1-001

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SIGNATURE: *Sean Delmore*
PRINTED NAME: SEAN DELMORE, PE, PTOE
DATE: 7/29/2026 LIC. NO. 40945

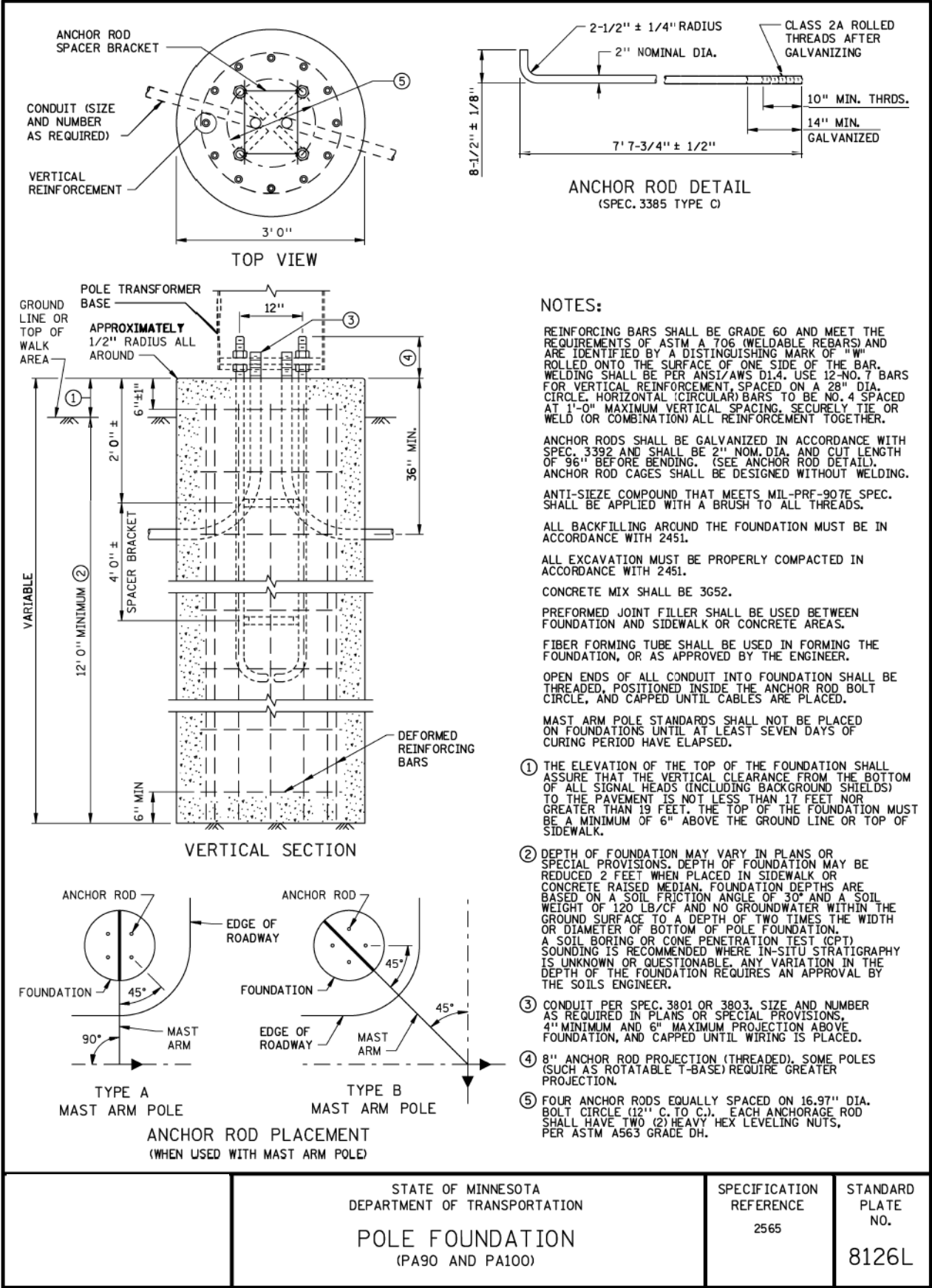
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MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

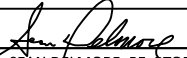
TRAFFIC CONTROL SIGNAL SYSTEM
CABINET DETAIL

Sheet No. 18 of 26 Sheets

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STANDARD PLATE HAS BEEN RETIRED BY MNDOT

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CHECKED BY: MAS		DATE: 7/29/2026 LIC. NO. 40945



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

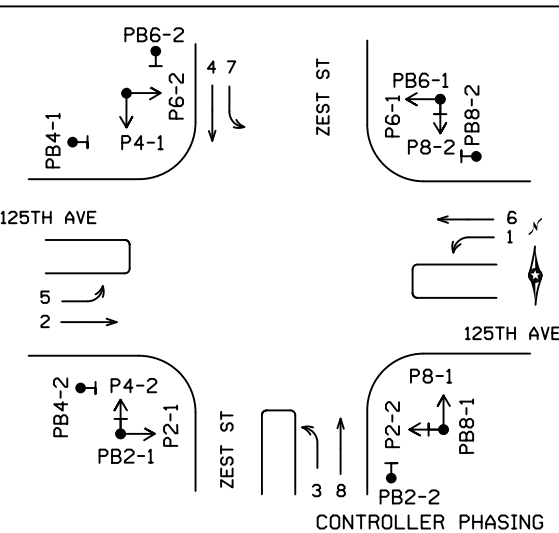
SIGNAL PLAN
PA POLE FOUNDATION STANDARD PLATE - SYSTEMS F & G

- NOTES:
1. SEE SPECIAL PROVISIONS FOR DEPARTMENT FURNISHED MATERIALS.
 2. ENSURE THE EXACT LOCATION OF THE HANDHOLES, POLES, LOOP DETECTORS AND EQUIPMENT PAD ARE VERIFIED IN THE FIELD BY ANOKA COUNTY OFFICE PERSONNEL.
 3. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE CONNECTION OF THE POWER WITH THE CITY OF BLAINE FOR THE TRAFFIC SIGNAL SYSTEM.
 4. FOR SIGN PANELS ON SIGNAL, SEE DETAIL SHEET. ALL SIGN PANELS REQUIRED ARE INCLUDED IN PAYMENT FOR THE TRAFFIC CONTROL SIGNAL SYSTEM F PAY ITEM.
 5. FOR PAVEMENT MARKINGS SEE PAVEMENT MARKING PLAN.
 6. FOR CONSTRUCTION OF PEDESTRIAN CURB RAMPS, CONCRETE WALK AND MEDIAN WORK SEE PEDESTRIAN RAMP DETAILS.
 7. THIS PLAN SPECIFIES CONDUIT SIZES, TYPES, AND GENERAL LOCATIONS. THE EXACT LOCATIONS WILL BE DETERMINED IN THE FIELD. CONDUITS UNDER THE ROADWAYS REQUIRE BORING.
 8. USE PVC OR HDPE FOR ALL NEW CONDUIT.
 9. CONDUIT SIZES ARE NOMINAL DIAMETER.
 10. ALL WIRES LISTED ARE AWG (AMERICAN WIRE GAUGE).
 11. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.
 12. COIL ENOUGH WIRE IN HH 4 & HH 11 FOR FUTURE FRONT LOOP DETECTORS.

- (A) EQUIPMENT PAD
SERVICE CABINET (SSB) BATTERY BACKUP
CONTROLLER AND CABINET (COUNTY FURNISHED)
4' CONDUIT TO HH 16:
3-6/C 16
4-4/C 16
6-2/C 14
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-1/C 6 INS. GR.
- 4' CONDUIT TO HH 16:
3-6/C 16
5-4/C 16
7-2/C 14
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-1/C 6 INS. GR.
- 4' CONDUIT TO HH 1:
3-6/C 16
5-4/C 16
4-2/C 14
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-1/C 6 INS. GR.
- 4' CONDUIT TO HH 1:
3-6/C 16
4-4/C 16
4-2/C 14
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-1/C 6 INS. GR.

- GROUND WIRE AND GROUND ROD - MIN 8' OUT FROM PAD
2-2" AND 1-3" CONDUIT STUBBED OUT (CAPPED BOTH ENDS)
CABINET TO SERVICE CABINET:
2" CONDUIT
3-1/C 6
SERVICE CABINET TO SOP:
2" CONDUIT
3-1/C 2
SERVICE CABINET TO HH 1:
1.25" CONDUIT
2-3/C 16 (LUM)
SERVICE CABINET TO HH 16:
1.25" CONDUIT
2-3/C 16 (LUM)
SERVICE CABINET TO EXTERNAL GR. RD.:
1" CONDUIT
1-1/C 6 INS. GR.
PULL VAULT TO CABINET:
1.5" CONDUIT
1-6SM FO CABLE
- INP: CONDUIT
F&I:
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
4-2/C 14
1-1/C 6 INS. GR.

- (B) SOP-CONNEXUS (TBD)
GROUND MOUNTED
TRANSFORMER



SIGNAL SYSTEM OPERATION

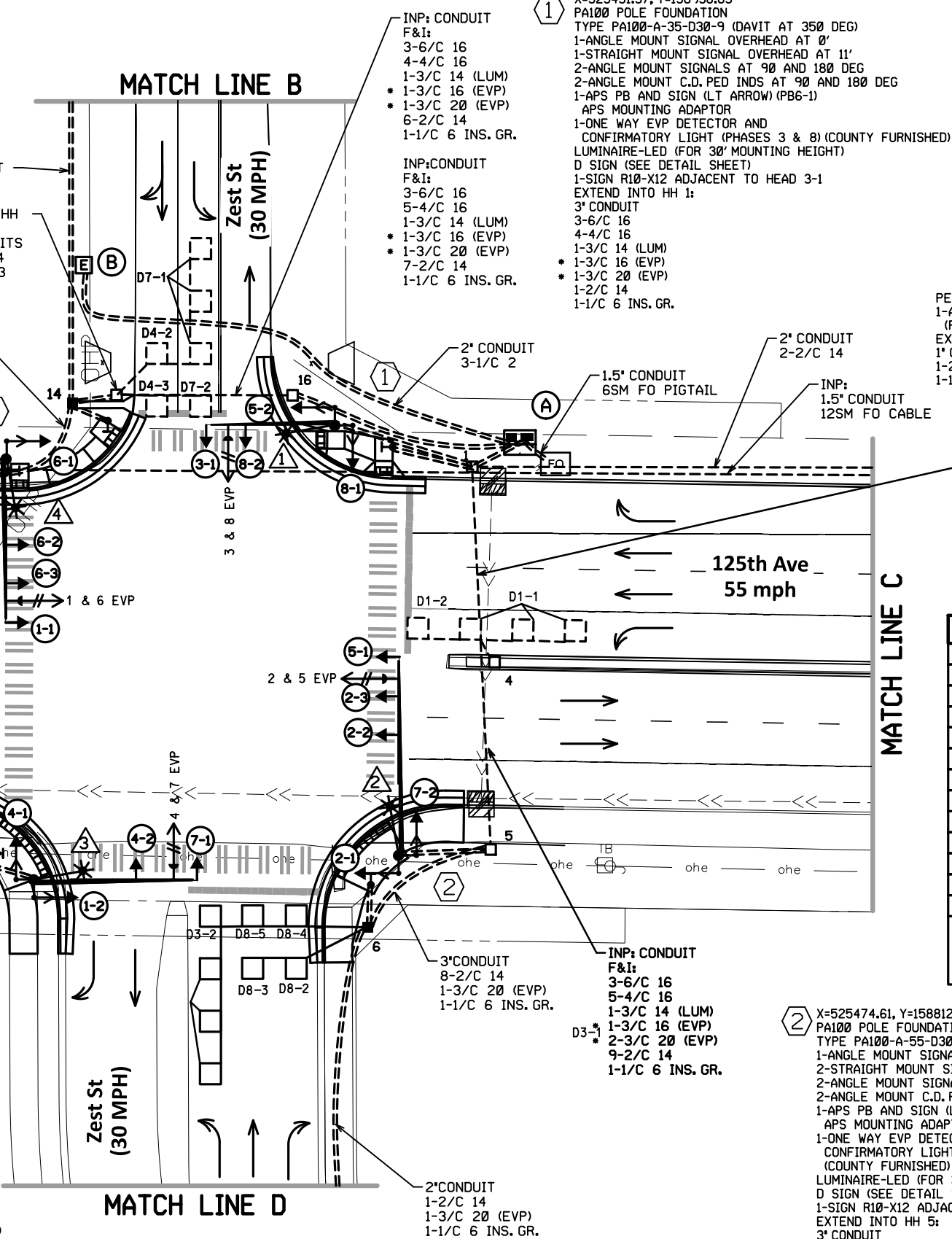
- THE SIGNAL SYSTEM FLASH MODE IS ALL RED.
- NORMAL OPERATION IS 8 PHASE, WITH PHASE 1, 3, 5 AND 7 BEING FYA BY TIME OF DAY.
- PHASES 2 AND 6 SHALL BE ON VEHICLE RECALL.

- (4) X=525362.37, Y=158926.01
PA100 POLE FOUNDATION
TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11', 23'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
2-ANGLE MOUNT C.D. PED INDS AT 90 AND 180 DEG
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 1 & 6) (COUNTY FURNISHED)
LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
D SIGN (SEE DETAIL SHEET)
1-SIGN R10-X12 ADJACENT TO HEAD 1-1
EXTEND INTO HH 13:
3" CONDUIT
3-6/C 16
5-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-1/C 6 INS. GR.
- 3" CONDUIT
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
6-2/C 14
1-1/C 6 INS. GR.
- 3" CONDUIT:
3-6/C 16
5-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-2/C 14

- INP: CONDUIT
F&I:
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
1-3/C 16 (EVP)
1-3/C 20 (EVP)
6-2/C 14
1-1/C 6 INS. GR.
- INP: CONDUIT
F&I:
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
4-2/C 14
1-1/C 6 INS. GR.
- INP: CONDUIT
F&I:
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
4-2/C 14
1-1/C 6 INS. GR.

- (3) X=525370.24, Y=158805.76
PA100 POLE FOUNDATION
TYPE PA100-A-45-D30-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
1-STRAIGHT MOUNT SIGNAL OVERHEAD AT 18'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
2-ANGLE MOUNT C.D. PED INDS AT 90 AND 180 DEG
1-APS PB AND SIGN (LT ARROW) (PB2-1)
APS MOUNTING ADAPTOR
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 4 & 7) (COUNTY FURNISHED)
LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
D SIGN (SEE DETAIL SHEET)
1-SIGN R10-X12 ADJACENT TO HEAD 7-1
EXTEND INTO HH 9:
3" CONDUIT
3-6/C 16
4-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
1-2/C 14
1-1/C 6 INS. GR.

- PED PB STATION
1-APS PB AND SIGN
(RT ARROW) (PB4-2)
EXTEND INTO HH 9:
1" CONDUIT
1-2/C 14
1-1/C 6 INS. GR.



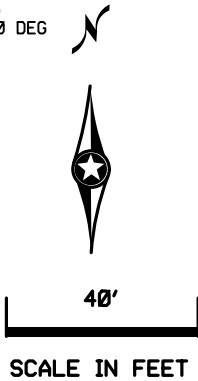
- PED PB STATION
1-APS PB AND SIGN
(RT ARROW) (PB2-2)
EXTEND INTO HH 6:
1" CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

- (2) X=525474.61, Y=158812.70
PA100 POLE FOUNDATION
TYPE PA100-A-55-D30-9 (DAVIT AT 350 DEG)
1-ANGLE MOUNT SIGNAL OVERHEAD AT 0'
2-STRAIGHT MOUNT SIGNAL OVERHEAD AT 11', 23'
2-ANGLE MOUNT SIGNALS AT 90 AND 180 DEG
2-ANGLE MOUNT C.D. PED INDS AT 90 AND 180 DEG
1-APS PB AND SIGN (LT ARROW) (PB8-1)
APS MOUNTING ADAPTOR
1-ONE WAY EVP DETECTOR AND
CONFIRMATORY LIGHT (PHASES 2 & 5)
(COUNTY FURNISHED)
LUMINAIRE-LED (FOR 30' MOUNTING HEIGHT)
D SIGN (SEE DETAIL SHEET)
1-SIGN R10-X12 ADJACENT TO HEAD 5-1
EXTEND INTO HH 5:
3" CONDUIT
3-6/C 16
5-4/C 16
1-3/C 14 (LUM)
* 1-3/C 16 (EVP)
* 1-3/C 20 (EVP)
9-2/C 14
1-1/C 6 INS. GR.

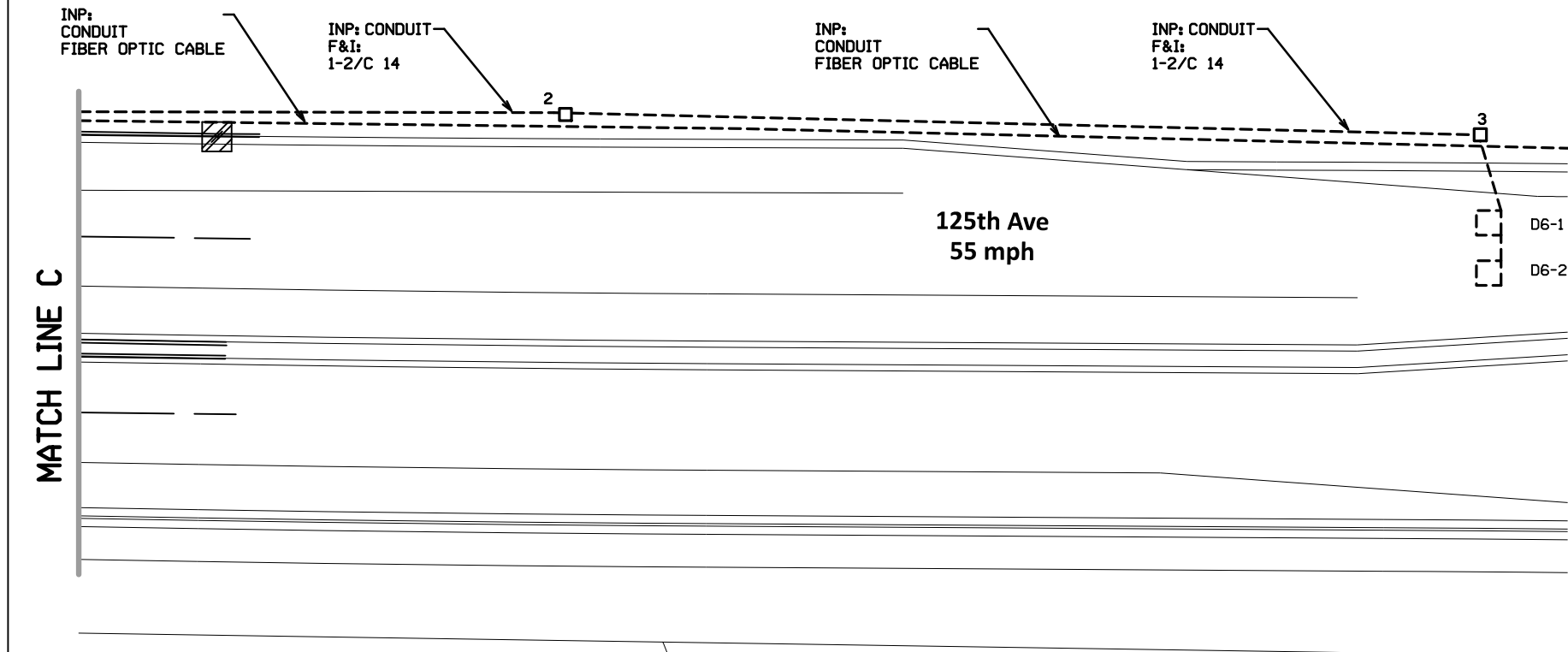
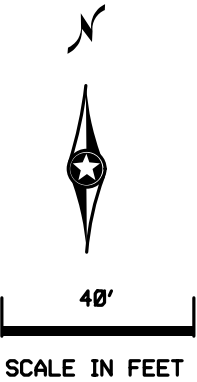
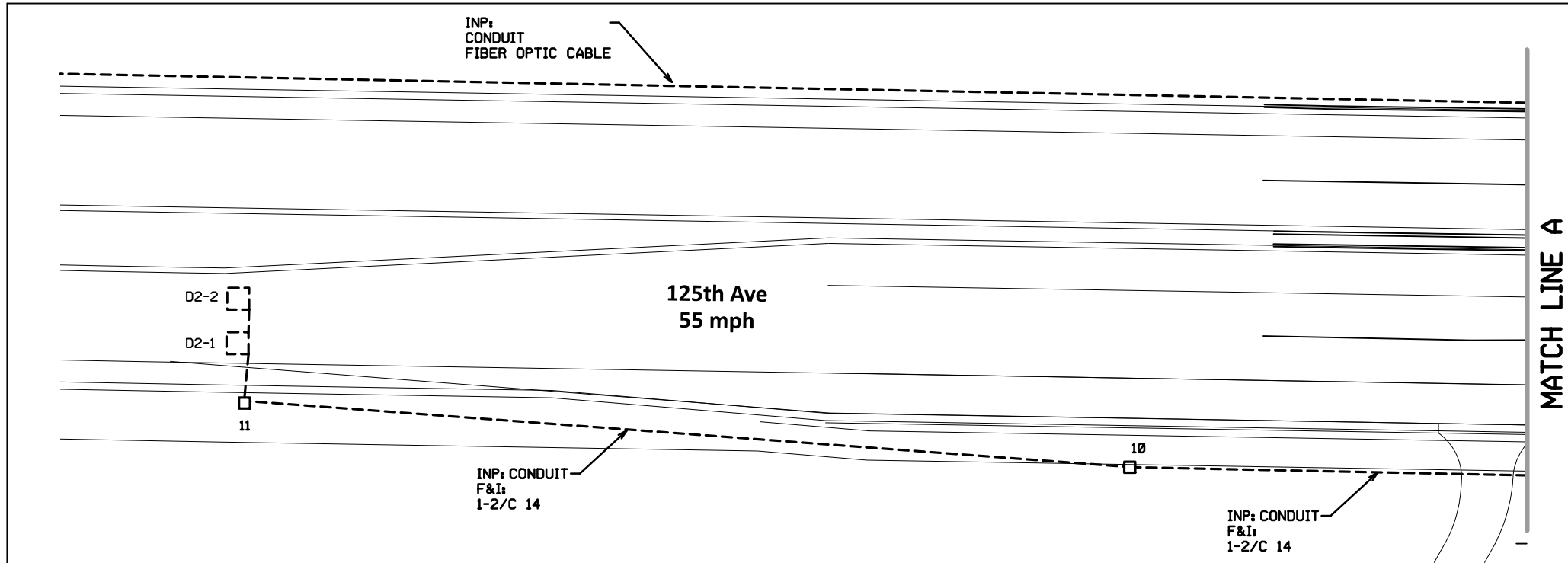
SIGNAL FACE CHART					
FACE	R	Y	G	FYA	
1-1, 1-2	←	←	←	←	
2-1, 2-2, 2-3	●	●	●	●	
3-1, 3-2	←	←	←	←	
4-1, 4-2	●	●	●	●	
5-1, 5-2	←	←	←	←	
6-1, 6-2, 6-3	●	●	●	●	
7-1, 7-2	←	←	←	←	
8-1, 8-2	●	●	●	●	
-ALL SIGNAL INDICATIONS SHALL BE 12" LED -ALL SIGNAL HEADS SHALL BE BLACK POLYCARBONATE WITH BACKGROUND SHIELDS					

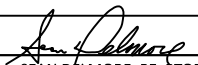
- PED PB STATION
1-APS PB AND SIGN
(RT ARROW) (PB8-2)
EXTEND INTO HH 1:
1" CONDUIT
1-2/C 14
1-1/C 6 INS. GR.

LOOP DETECTOR CHART		
NUMBER	SIZE (FT)	LOCATION
D1-1, D5-1, D7-1	3-6 X 6	INP
D1-2, D5-2, D7-2	6 X 6	INP
D2-1, D2-2	6 X 6	INP
D3-1	3-6 X 6	20, 35, 50
D3-2	1-6 X 6	5
D4-1	6 X 6	185
D4-2	6 X 6	INP
D4-3	6 X 6	INP
D6-1, D6-2	6 X 6	INP
D8-1	6 X 6	180
D8-2, D8-3	1-6 X 6	20
D8-4, D8-5	1-6 X 6	5
-ALL LOOP DETECTORS SHALL BE PVC UNLESS NOTED OTHERWISE -LOCATION: DISTANCE FROM CROSSWALK/STOP BAR IN FEET		

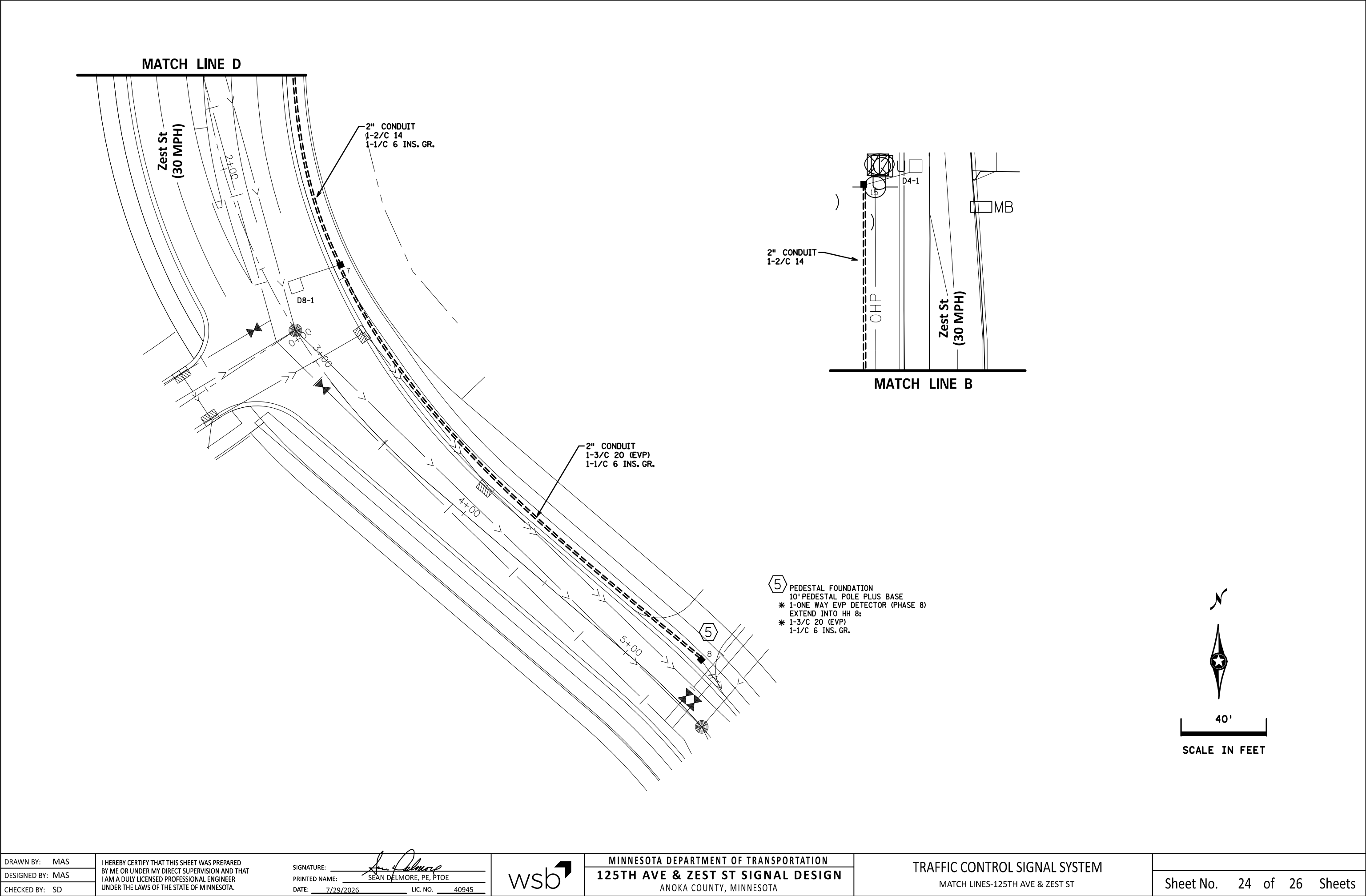


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DESIGNED BY: MAS		PRINTED NAME: SEAN DELMORE, PE, PTOE				
CHECKED BY: SD		DATE: 7/29/2026 LIC. NO. 40945				

DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\R-033394-000-445sgp-plan-002A.dgn



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PRINTED NAME: SEAN DELMORE, PE, PTOE
DATE: 7/29/2026 LIC. NO. 40945

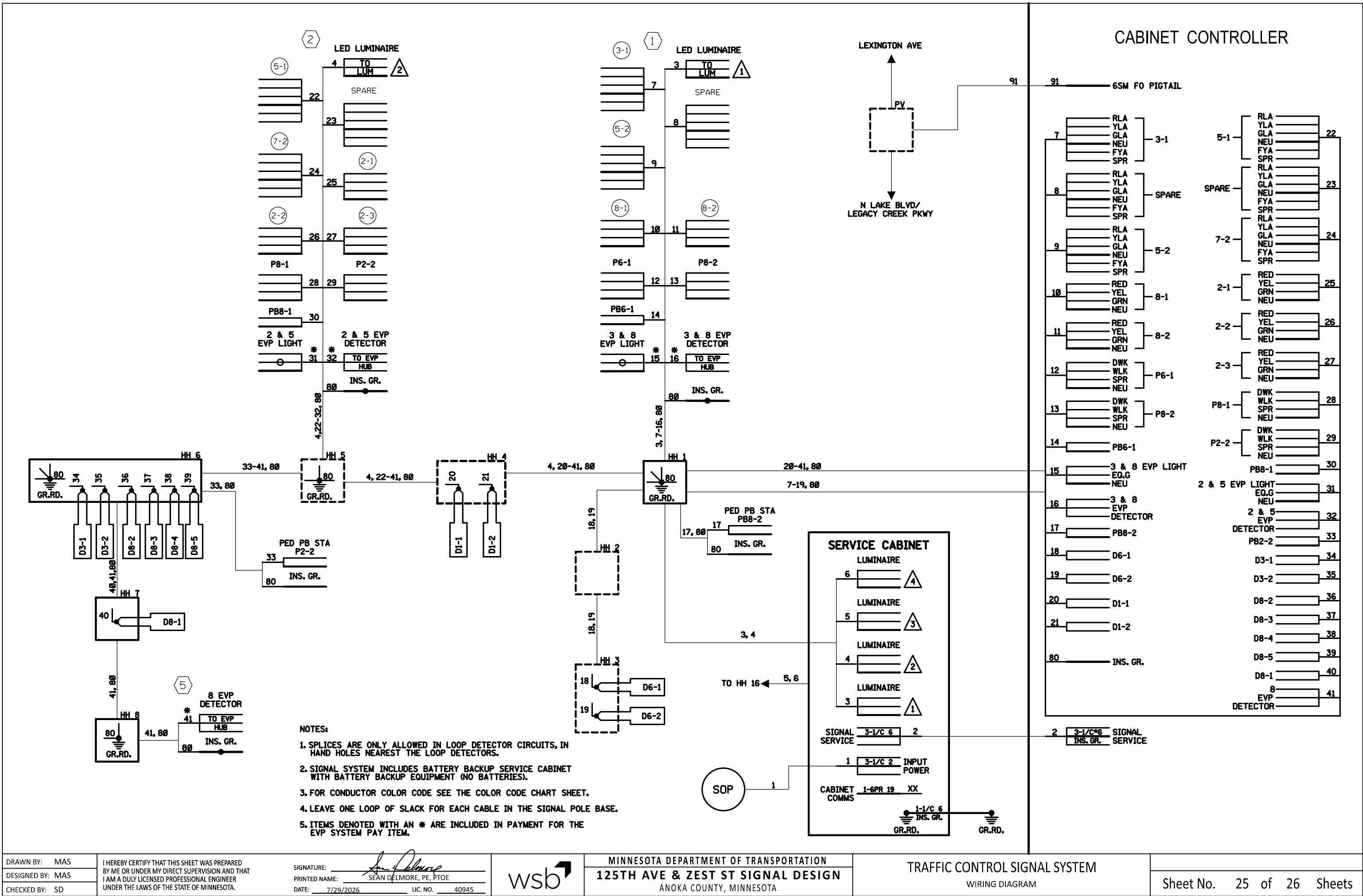


MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

TRAFFIC CONTROL SIGNAL SYSTEM
MATCH LINES-125TH AVE & ZEST ST

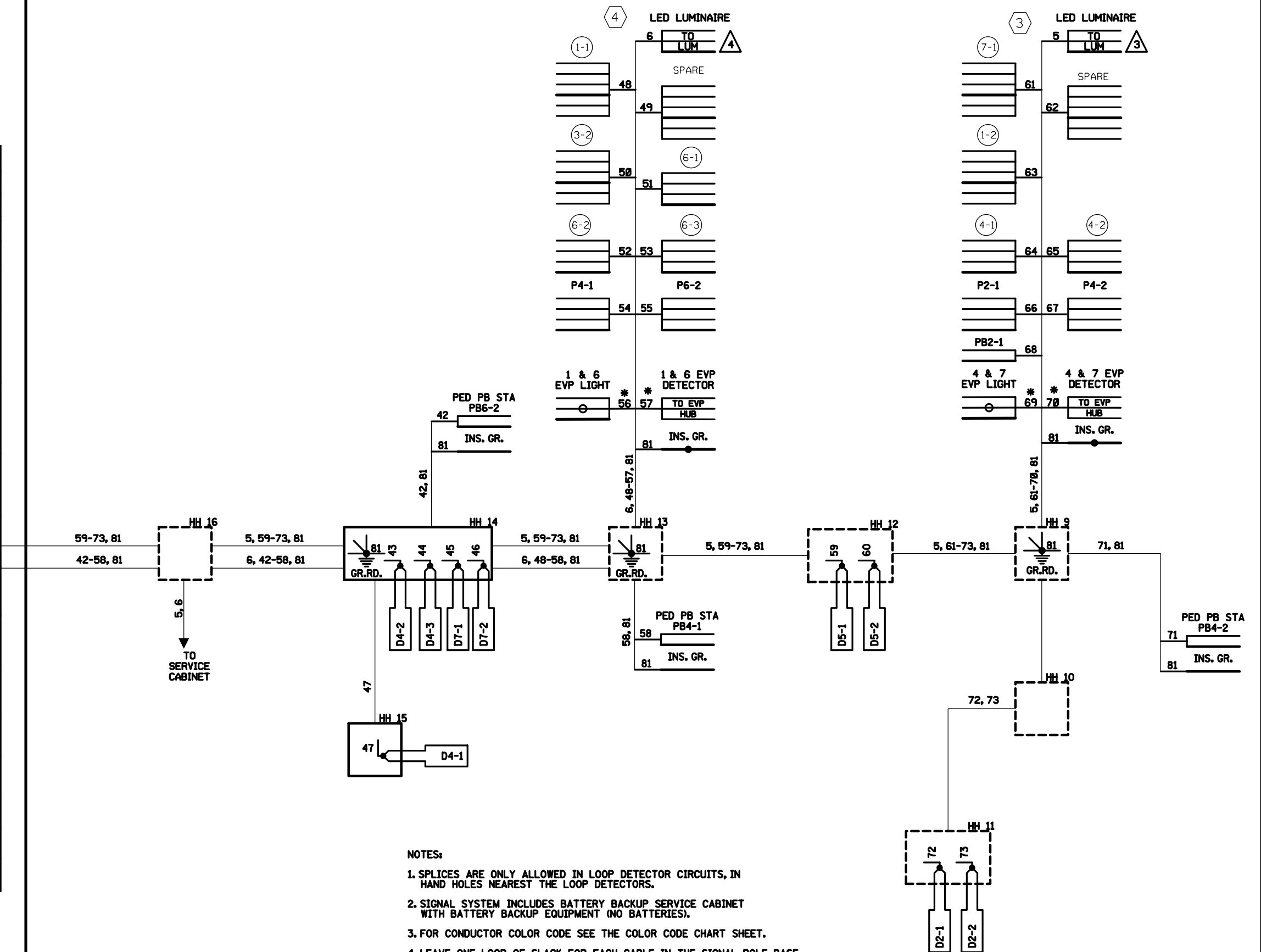
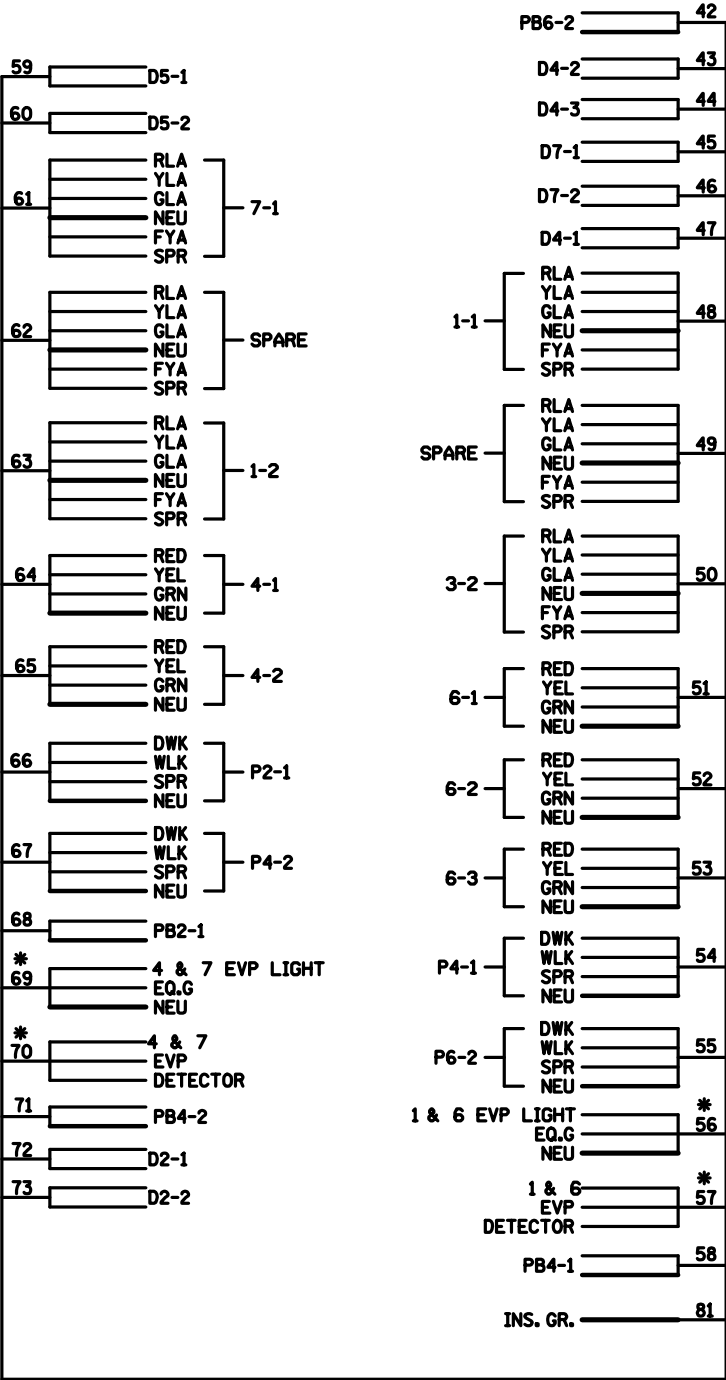
Sheet No. 24 of 26 Sheets

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DATE: 29-JUL-2026
FILENAME: Projects\Minnesota\Roadway\03_Sheets\03-33394-000\05_Discipline\Roadway\03-33394-000-445sgp-plan-004

CABINET CONTROLLER



- NOTES:
1. SPLICES ARE ONLY ALLOWED IN LOOP DETECTOR CIRCUITS, IN HAND HOLES NEAREST THE LOOP DETECTORS.
 2. SIGNAL SYSTEM INCLUDES BATTERY BACKUP SERVICE CABINET WITH BATTERY BACKUP EQUIPMENT (NO BATTERIES).
 3. FOR CONDUCTOR COLOR CODE SEE THE COLOR CODE CHART SHEET.
 4. LEAVE ONE LOOP OF SLACK FOR EACH CABLE IN THE SIGNAL POLE BASE.
 5. ITEMS DENOTED WITH AN * ARE INCLUDED IN PAYMENT FOR THE EVP SYSTEM PAY ITEM.

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DESIGNED BY: MAS
CHECKED BY: SD

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SIGNATURE: *Sean Delmore*
PRINTED NAME: SEAN DELMORE, PE, PTOE
DATE: 7/29/2026 LIC. NO. 40945



MINNESOTA DEPARTMENT OF TRANSPORTATION
125TH AVE & ZEST ST SIGNAL DESIGN
ANOKA COUNTY, MINNESOTA

TRAFFIC CONTROL SIGNAL SYSTEM
WIRING DIAGRAM