ABBREVIATIONS ADVANCE WARNING FLASHER C.D. COUNT DOWN D2-1 (e.g.) DETECTOR (PHASE 2. NO. 1) DEG DEGREES DON'T WALK FURNISH AND INSTALL FLASH/FLASHING FLASHING YELLOW ARROW FLASHING YELLOW LEFT ARROW FYLA GREEN LEFT ARROW GREEN INDICATION GRN GR. RD. GRA GTA GROUND ROD GREEN RIGHT ARROW GREEN THRU ARROW HANDHOLE HH IND INP INS. GR. INDICATION INPLACE INSULATED GROUND JUNCTION BOX LED LIGHT EMITTING DIODE LUMINAIRE NEUTRAL P1-1 (e.g.) PEDESTRIAN HEAD (PHASE 1, NO. 1) PUSH BUTTON PB2-1 (e.g.) PUSH BUTTON (PHASE 2, NO. 1) PED PEDESTRIAN POLYVINYL CHRLORIDE (CONDUIT) RED R&S RLA S&I SOP SPR RED INDICATION REMOVE AND SALVAGE RED LEFT TURN ARROW SALVAGE AND INSTALL SOURCE OF POWER STA WLK YEL STATION WALK INDICATION YELLOW INDICATION YLA YELLOW LEFT ARROW YELLOW RIGHT ARROW



CONSTRUCTION PLAN FOR RURAL INTERSECTION CONFLICT WARNING SYSTEM (RICWS) AND LIGHTING

AT THE INTERSECTION OF: T.H. XX AT C.S.A.H. YY NEAR GRANITE FALLS, MN. (CHIPPEWA COUNTY) STATE PROJ. NO. XXXX-XXXX REF POINT XXX+XX.XXX



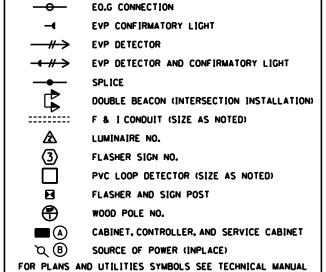
THE 2018 EDITION OF THE MINNESOTA DEPARTMENT OF TRANS											
ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MN MUTCD, INCLUDING FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.											
INDEX 1 TITLE SHEET 2 ESTIMATED QUANTITIES AND GENERAL NOTES 3 CABINET PAD LAYOUT 4-5 SIGN STRUCTURE DETAILS 6 SIGN INSTALLATION DETAILS 7 LIGHTING DETAILS 8-11 RURAL INTERSECTION CONFLICT WARNING SYSTEM 12 INPLACE UTILITIES 13-16 SIGNING AND STRIPING PLANS AND DETAILS THIS PLAN CONTAINS 16 SHE											
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.											
TYPED NAME DESIGN SQUAD AAA, BBB, CCC	DATE:										
DESIGN SQUAD AAA, BBB, CCC											
RECOMMENDED FOR APPROVAL ENGINEER	DATE:										
RECOMMENDED FOR APPROVAL COUNTY ENGINEER	DATE:										
RECOMMENDED FOR APPROVAL	DATE:										
RECOMMENDED FOR APPROVAL DISTRICT TRANSPORTATION ENGINEER	DATE:										
RECOMMENDED FOR APPROVAL DISTRICT TRAFFIC ENGINEER	DATE:										
RECOMMENDED FOR APPROVALSTATE PRE- LETTING ENGINEER	DATE:										
OFFICE OF LAND MANAGEMENT APPROVAL DIRECTOR, LAND MANAGEMENT	DATE:										
APPROVEDSTATE DESIGN ENGINEER	DATE:										
DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPIANCE WITH STATE AID RULES/POLICY	DATE:										
APPROVED FOR STATE AID FUNDING: STATE AID ENGINEER	DATE:										
I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF MADE BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNE	DULY LICENSED										
PRINTED NAME:	DATE:										

SHEET 1 OF 16 SHEETS

XXXX-XXXX

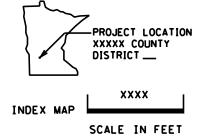
GOVERNING SPECIFICATIONS

MINN. PROJECT NO. _



SYMBOLS

HANDHOLE



		STANDARD PLATES	<u>- S</u>	IGN	٩L	SYSTEMS					
THE F	THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT										
PLATE I	NO.	DESCRIPTION		PLATE	NO.	DESCRIPTION					
→ 8001	ı	CHANNELIZERS (3 SHEETS)	~	8122	F	PEDESTAL AND PEDESTAL BASE (2 SHEETS)					
► 8107	A	RLF EQUIPMENT PAD FOUNDATION LAYOUT (3 SHEETS)	>	8123	G	POLE AND MAST ARM (2 SHEETS)					
> 8111	Ε	TRAFFIC SIGNAL BRACKETING (PEDESTAL MOUNTED) (3 SHEETS)	>	8126	L	POLE FOUNDATION (PA90 AND PA100)					
▶ 8112	I	PEDESTAL FOUNDATION (TRAFFIC CONTROL SIGNALS)	>	8127	Ε	LIGHT FOUNDATION - DESIGN E (2 SHEETS)					
► 8117	G	PRECAST CONCRETE HAND HOLE	>	8129	A	SHIM AND WASHER					
▶ 8118	D	SERVICE EQUIPMENT AND POLE TRAFFIC CONTROL SIGNALS	>	8130	Ε	SAW CUT LOOP DETECTORS (3 SHEETS)					
▶ 8119	C	GROUND MOUNTED CABINET FOUNDATION	>	8132	В	PREFORMED RIGID PVC CONDUIT LOOP DETECTOR (3 SHEETS)					
▶ 8120	Q	POLE FOUNDATION (PA-85)									
▶ 8121	н	TRANSFORMER BASE AND POLE BASE PLATE (2 SHEETS)	i	> :	MAT	DARD PLATES APPLICABLE TO THIS PROJECT					

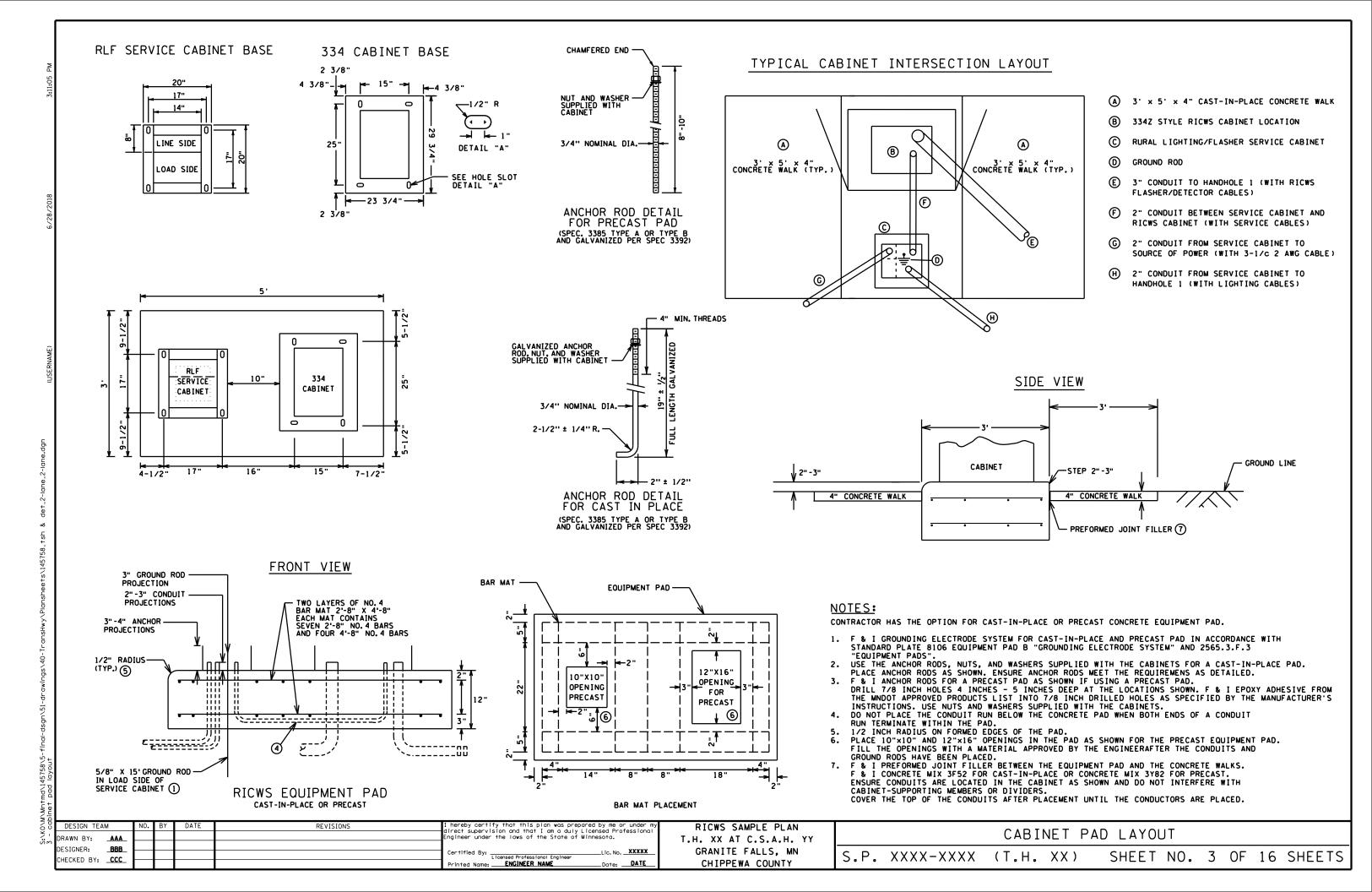
STATE PROJECT NO.	CHARGE IDENTIFIER	PLAN REVISIONS						
xxxx-xx		DATE	SHEET NO.	APPROVED BY				
^^^^								
		oxdot						

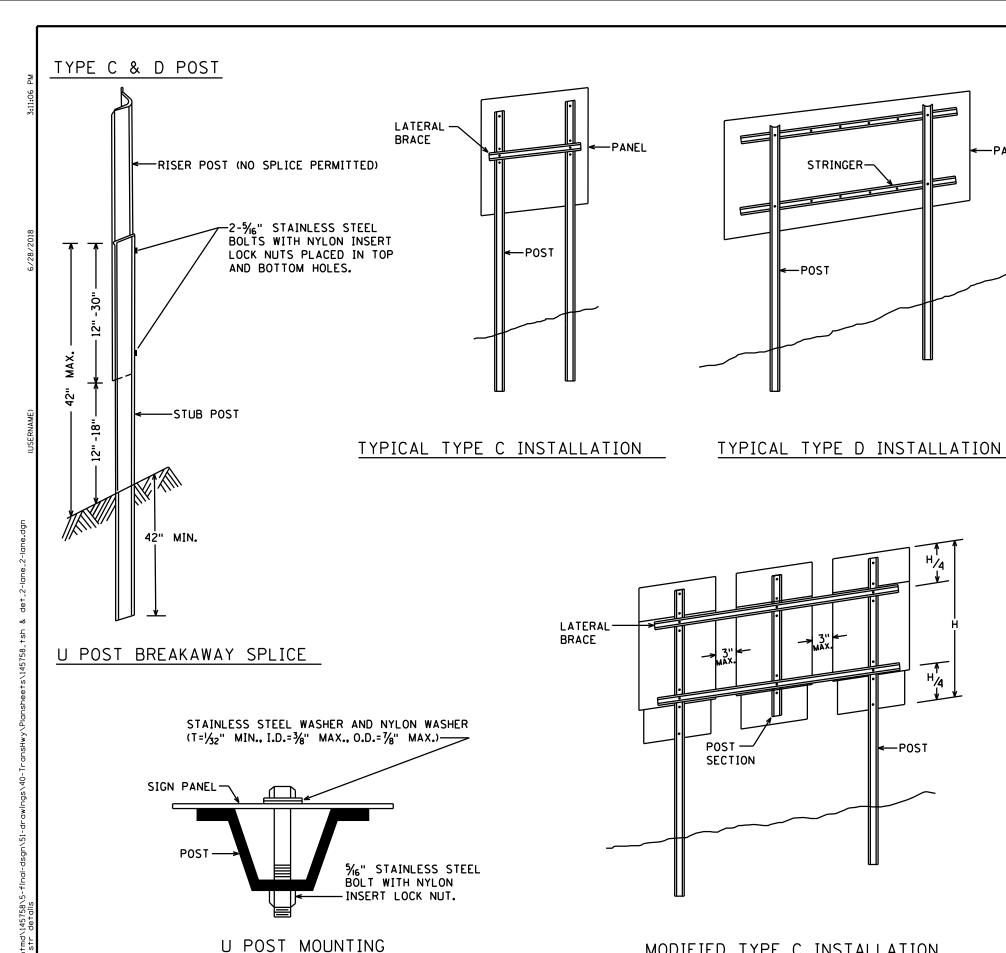
S.P. XXXX-XXXX (T.H. XX)

DESIGN TEA	M	NO.	BY	DATE	I hereby certify that this plan was prepared by me or under my	_
DRAWN BY:	AAA				direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.	
DESIGNER:	BBB					
					Certified By:Lic. NoLic. NoLic. No	
CHECKED BY:	_ccc_				DATE DATE	

RICWS SAMPLE PLAN T.H. XX AT C.S.A.H. YY GRANITE FALLS, MN CHIPPEWA COUNTY

		STATEMENT OF	ESTIMATED	QUANTITIES			
			TOTAL		PARTICIPATION	N/COST BREAKDOWN	
ITEM NO.	DESCRIPTION	UNIT	ESTIMATED QUANTITIES	STATE S.P. XXXX-XXXX	COUNTY S.A.P. XXX-XXX	FEDERAL S.P. XXXX-XX	CITY S.A.P. XXX-XXX
2011.601	AS BUILT	LUMP SUM					
2021.501	MOBILIZATION	LUMP SUM					
2104.502	SALVAGE SIGN TYPE C	EACH					
2104.502	SALVAGE SIGN TYPE D	EACH					
2563.601	TRAFFIC CONTROL	LUMP SUM					
2564.502	INSTALL SIGN TYPE C	EACH					
2564.502	INSTALL SIGN TYPE D	EACH					
2565.616	FLASHING BEACON SYSTEM	SYSTEM					
2582.503	24" SOLID LINE MULTI-COMP GR IN (WR)	LIN FT					





MODIFIED TYPE C INSTALLATION

RICWS SAMPLE PLAN T.H. XX AT C.S.A.H. YY GRANITE FALLS, MN CHIPPEWA COUNTY

-POST

-PANEL

- 1. USE 3 LB/FT STUB POSTS. SHALL CONFORM TO MNDOT 3401.
- 2. USE 2.5 LB/FT RISER POSTS, STRINGERS, KNEE BRACES AND LATERAL BRACES. ALL SHALL CONFORM TO MNDOT 3401.
- 3. SEE SIGN DATA SHEETS FOR NUMBER OF POSTS. KNEE BRACES, POST LENGTHS AND SPACINGS, AS DETERMINED FROM TEM CHARTS 6.3 AND 6.4.
- 4. IF MORE THAN TWO POSTS ARE NEEDED, THE MINIMUM SPACING SHALL BE 45" BETWEEN POSTS.
- 5. 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 MNDOT STANDARD SIGNS AND MARKINGS MANUAL).
- 6. MOUNTING (PUNCH CODE) FOR TYPE C SIGN PANELS SHALL BE AS INDICATED IN THE MNDOT STANDARD SIGNS AND MARKINGS MANUAL UNLESS OTHERWISE SPECIFIED.
- 7. ALL RISER (VERTICAL) U POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7' LONG.
- 8. USE STAINLESS STEEL 5/6" BOLTS, WASHERS AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
- 9. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
- 10. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEAST 42".
- 11. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MNDOT 3306 AND GALVANIZED IN ACCORDANCE WITH MNDOT 3394.
- 12. COLLARS SHALL BE USED TO SHIM OVERLAYS AND LEGEND COMPONENTS AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MNDOT 3352.2A6.
- 13. 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.
- 14. 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.
- 15. 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

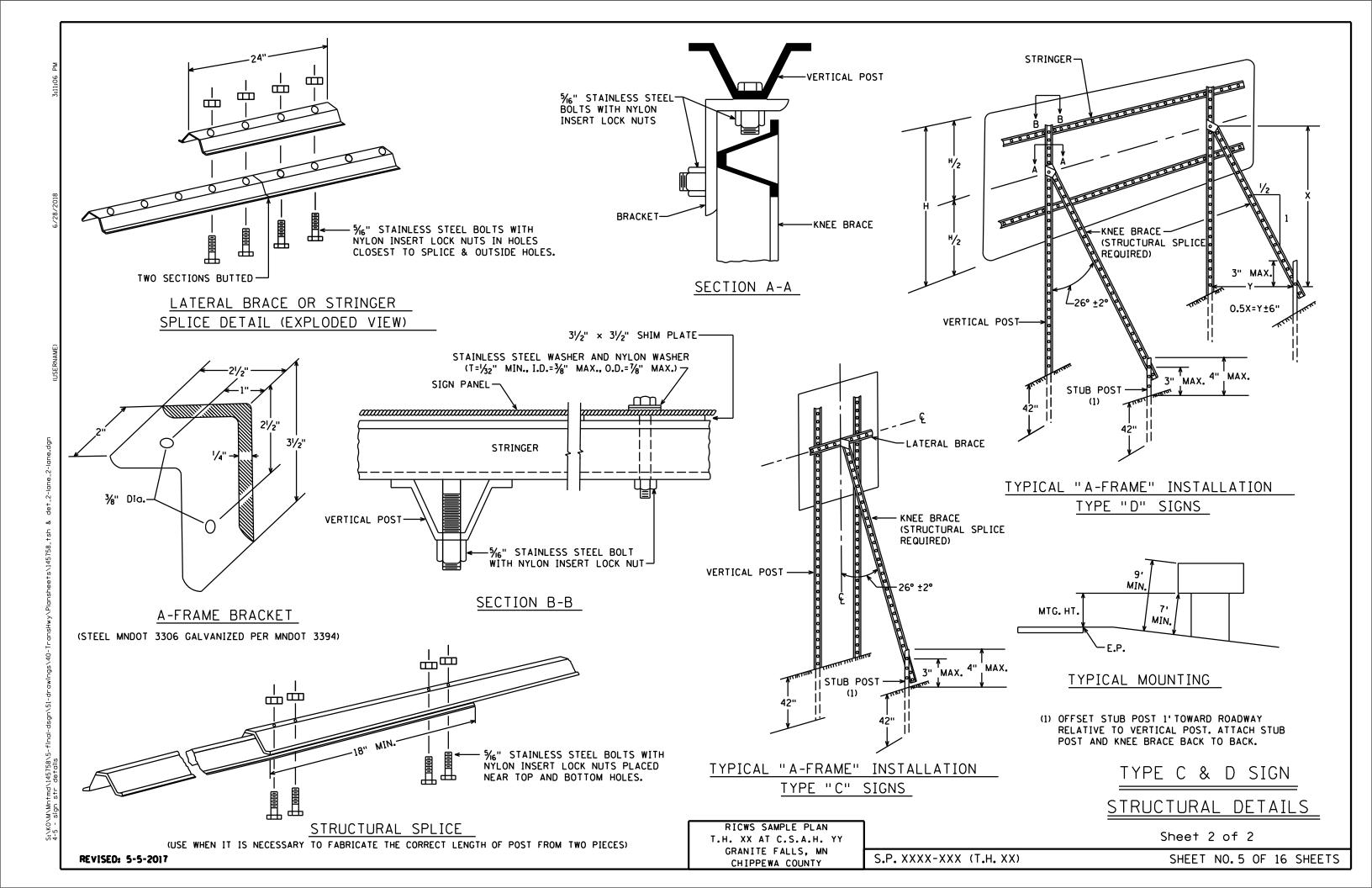
Sheet 1 of 2

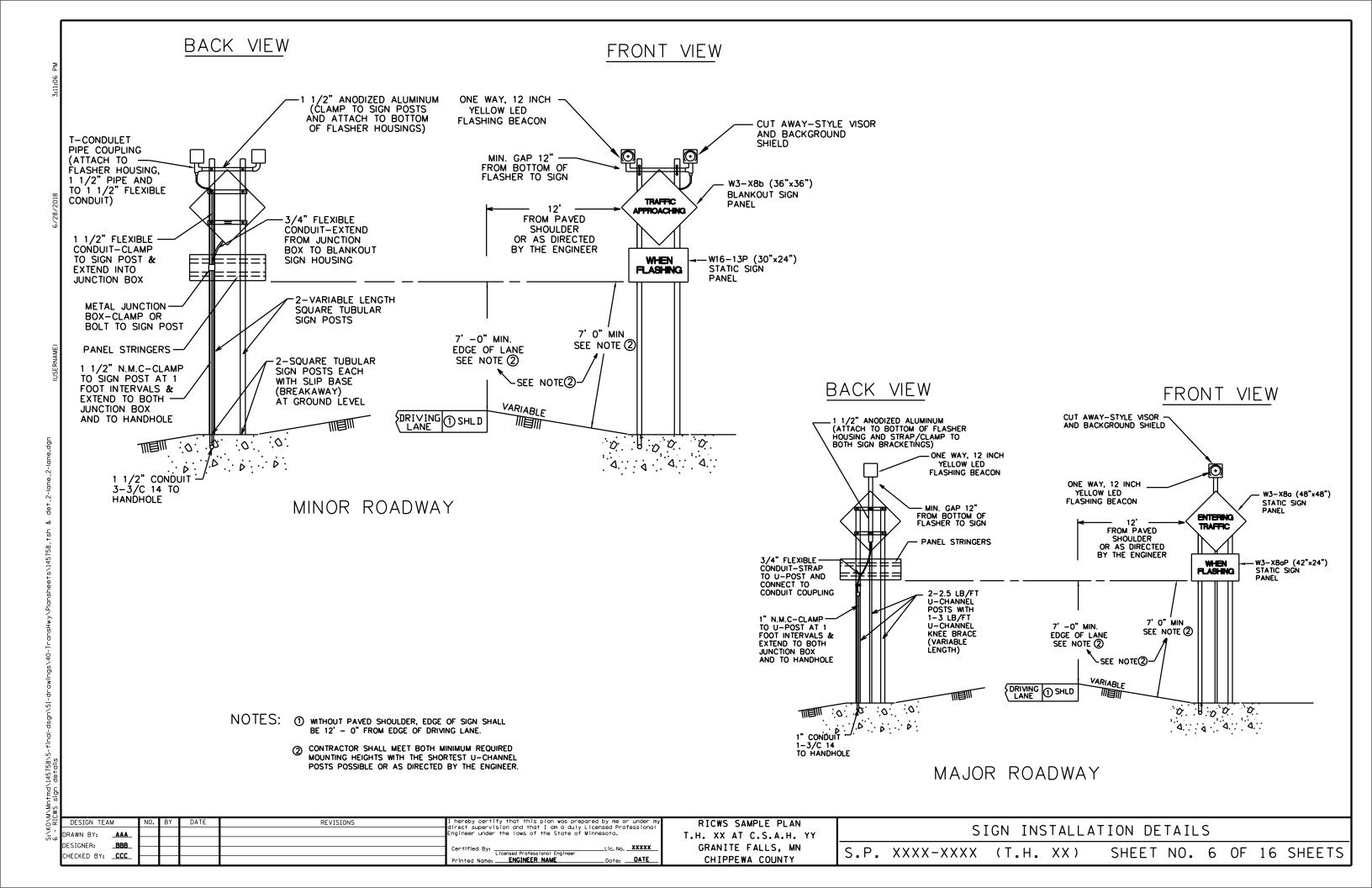
SHEET NO. 4 OF 16 SHEETS

REVISED: 5-5-2017

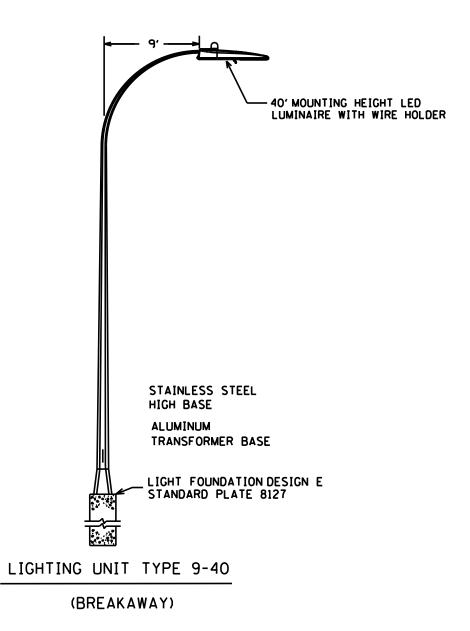
TYPE C SIGNS

S.P. XXXX-XXXX (T.H. XX)

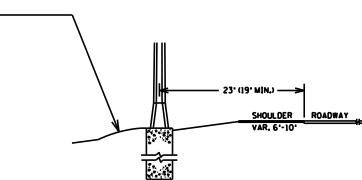




MAST ARM LENGTH	RADIUS
6	5
9	8
12	10



FILL AROUND FOUNDATION TOP WITH EXCAVATED DIRT. GRADE DIRT LEVEL WITH BOTTOM OF CONCRETE CHAMFER.



PLACEMENT LIGHTING UNIT TYPE 9-40

USE THE MAXIMUM DISTANCE WHENEVER POSSIBLE.

IF THE MINIMUM DISTANCE CANNOT BE OBTAINED

CONTACT THE DISTRICT/DIVISION TRAFFIC ENGINEER.

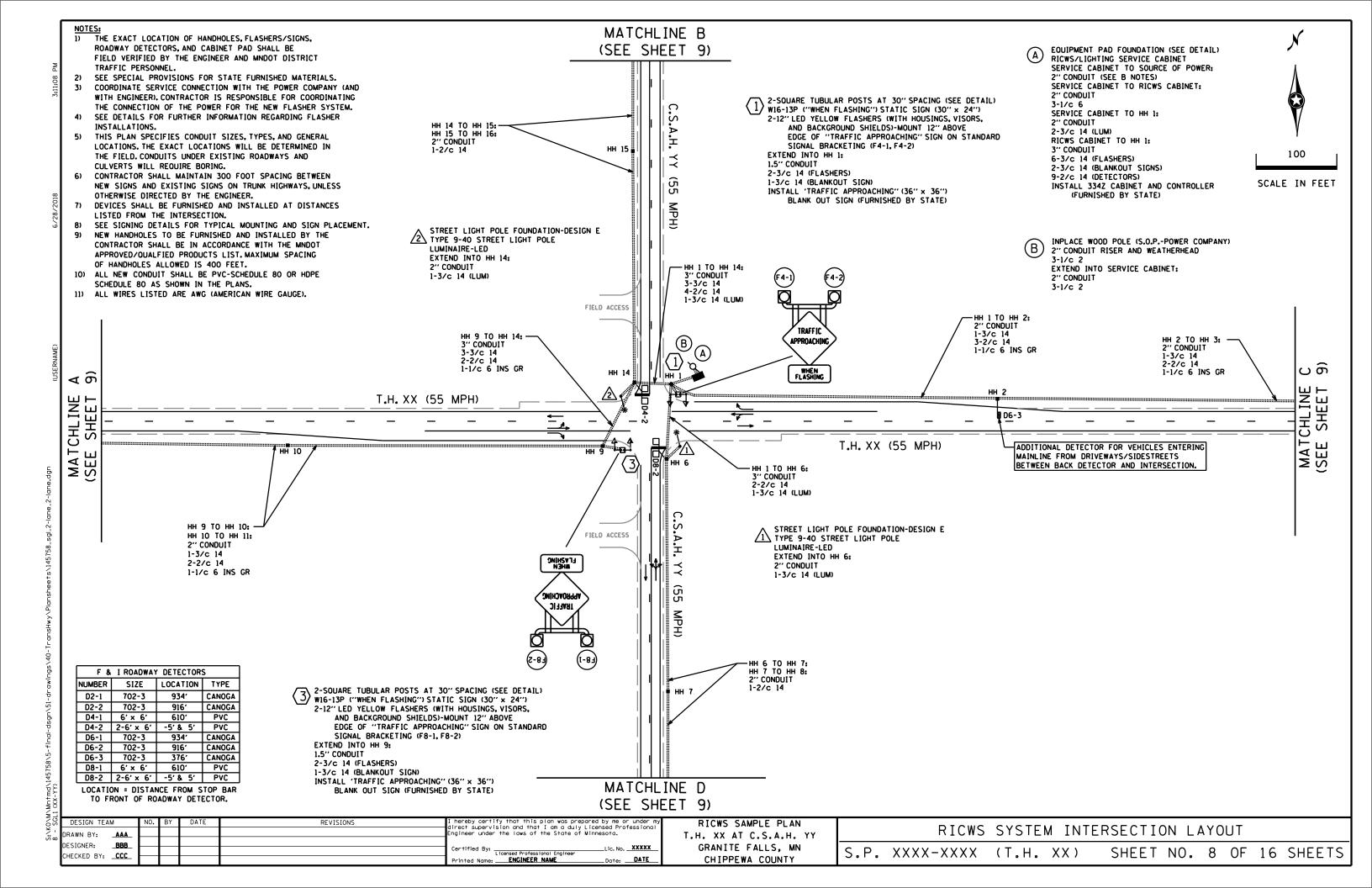
LIGHT FOUNDATIONS SHALL BE PLACED IN

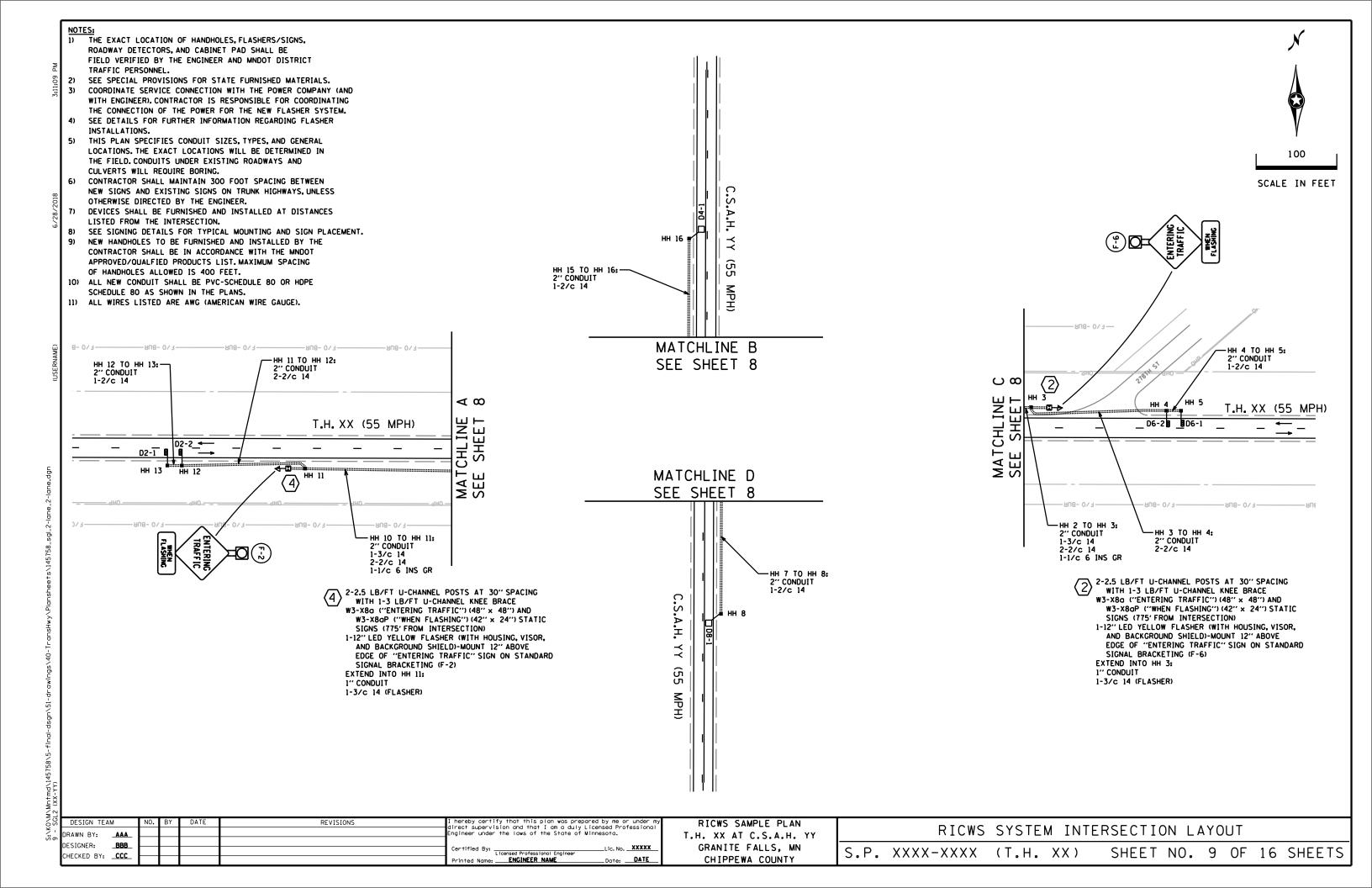
ACCORDANCE WITH 2545.3F2.

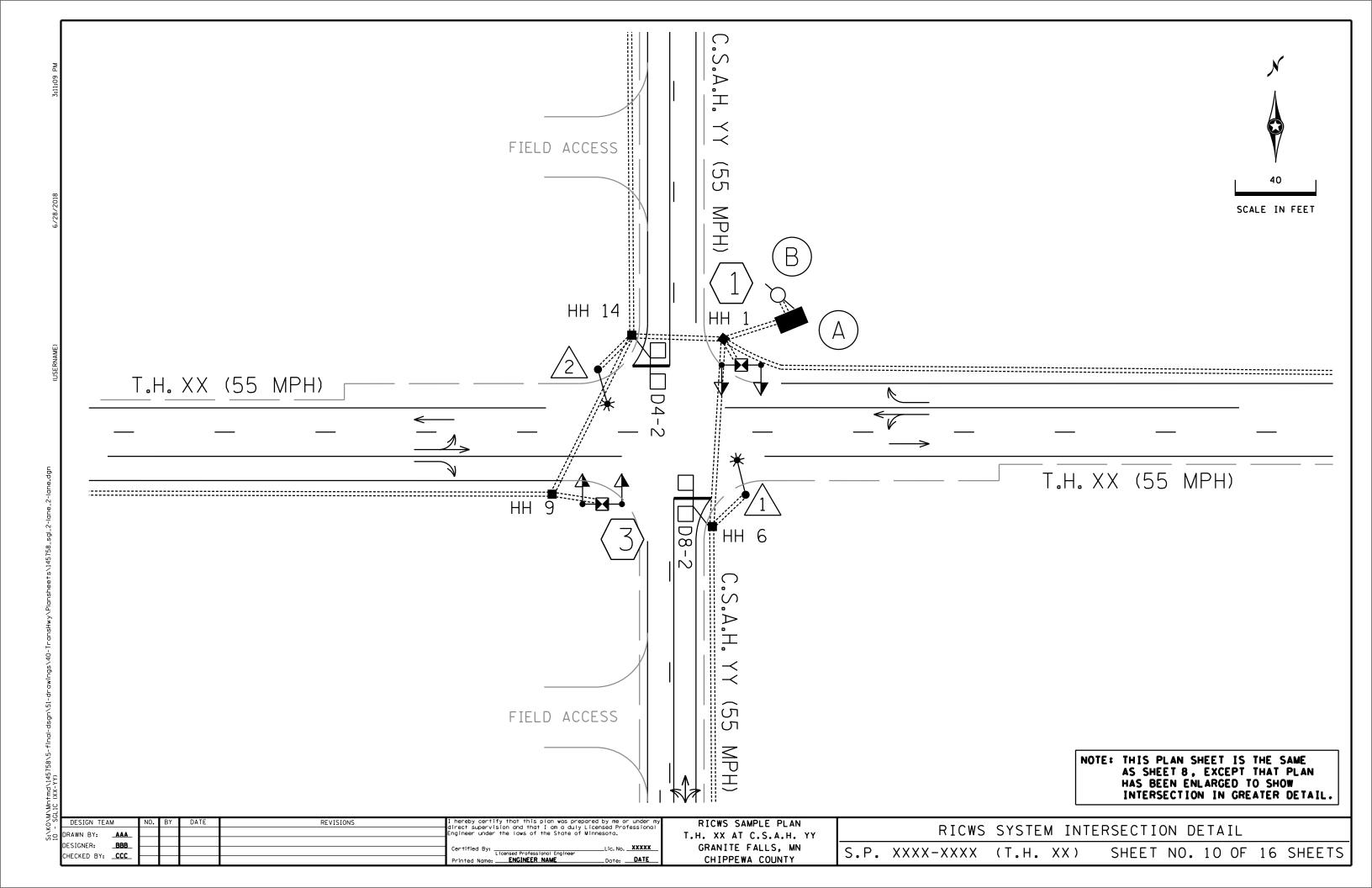
DISTANCES SHALL BE MEASURED FROM THE

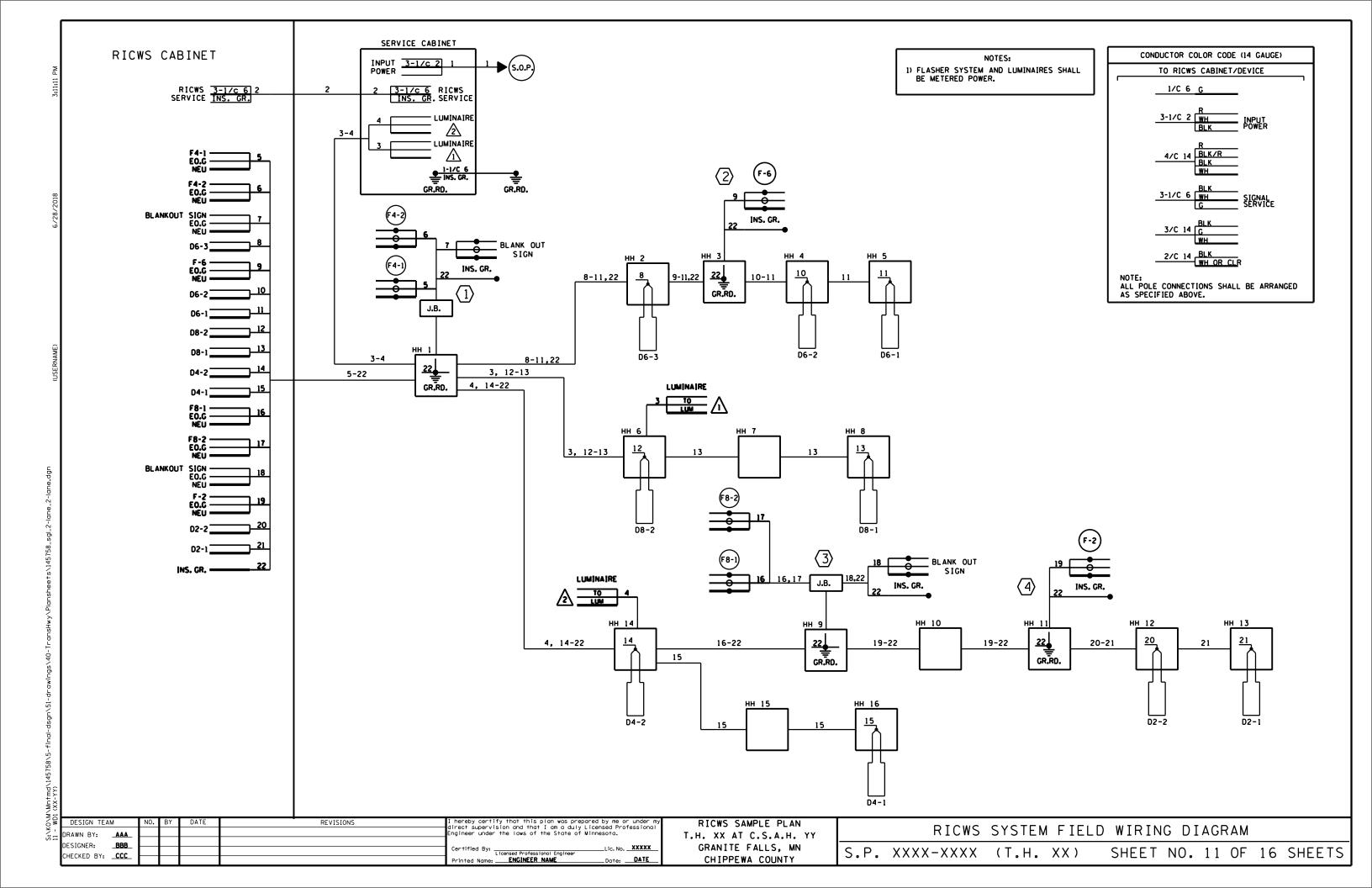
EDGE OF DRIVING LANE OR TURN LANE.

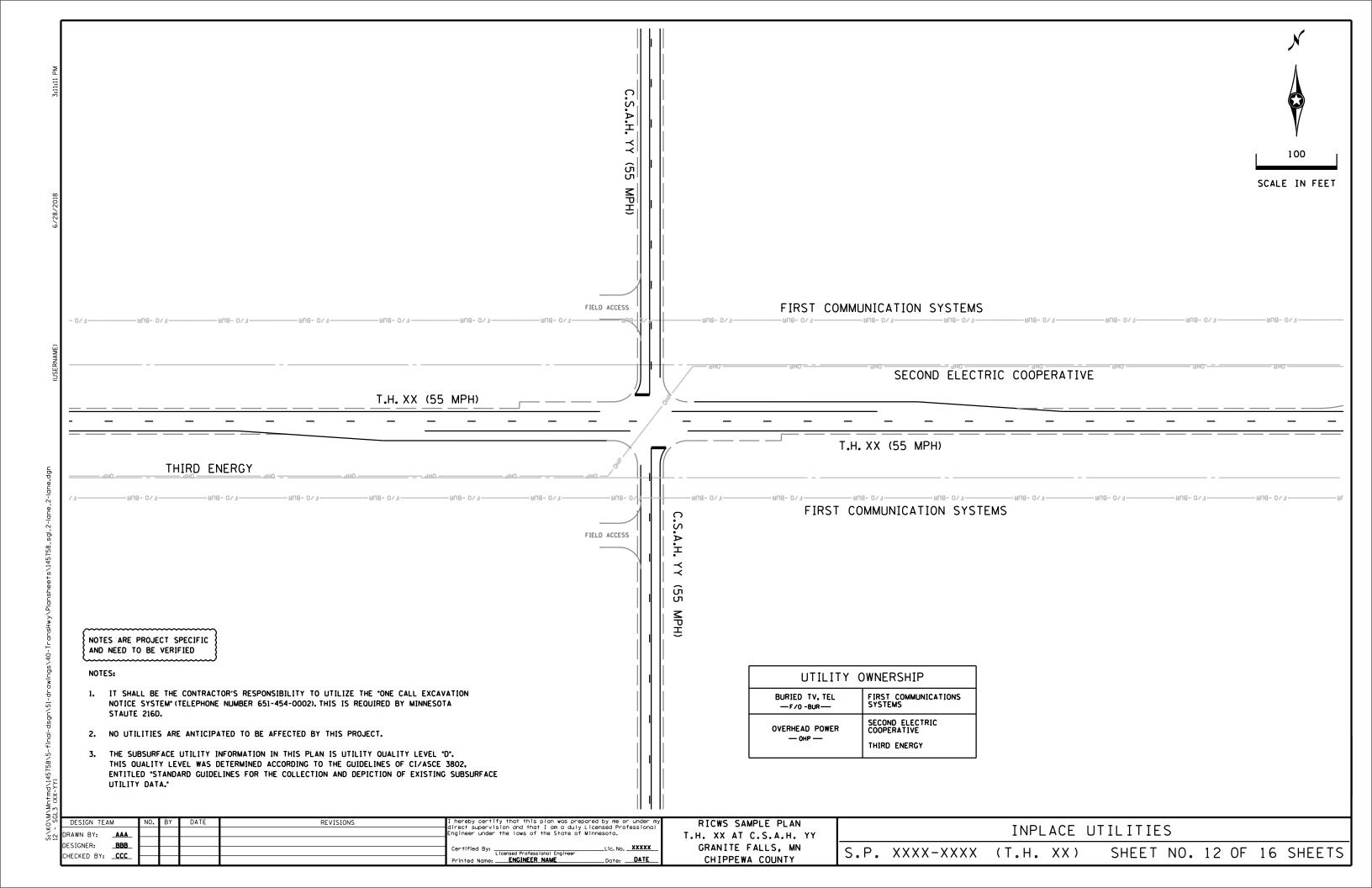
2 1								
SE DESIG	GN TEAM	NO	BY	DATE	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional	RICWS SAMPLE PLAN		
Z DRAWN	BY: AA	A .			Engineer under the laws of the State of Minnesota.	T.H. XX AT C.S.A.H. YY	L I GHT ING	DETAILS
2 2								
DESIGN		<u> </u>			Certified By:Lic. NoXXXXX	GRANITE FALLS, MN	S.P. XXXX-XXXX (T.H. XX)	SHEET NO. 7 OF 16 SHEETS
CHECKE	D BY: _CC	ᄄ			Printed Name: ENGINEER NAME Date: DATE	CHIPPEWA COUNTY	S.P. XXXX-XXXX (T.H. XX)	SHEET NO. 1 OF 10 SHEETS











/M/Mnntmd/145758/5-final-dsgn/51-drawings/40-TransHwy/Plansheets/145758_ss tabs &

PERMANENT PAVEMENT MARKING PLAN

NOTES & GUIDELINES

GENERAL INFORMATION:

THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTATION AND INSPECTION. THE CONTRACTOR WILL PLACE NECESSARY "SPOTTING" AT APPROPRIATE POINTS TO PROVIDE HORIZONTAL CONTROL FOR STRIPING AND TO DETERMINE NECESSARY STARTING AND CUTOFF POINTS. LONGITUDINAL JOINTS, PAVEMENT EDGES AND EXISTING MARKINGS MAY SERVE AS HORIZONTAL CONTROL WHEN SO DIRECTED.

EDGE LINES AND LANE LINES ARE TO BE BROKEN ONLY AT INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES IF THEY ARE CONTROLLED BY AN AGENCY PLACED YIELD SIGN, STOP SIGN OR TRAFFIC SIGNAL. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSSWALKS.

A TOLERANCE OF 1/4 INCH UNDER OR 1/4 INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO 3 INCHES FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH. MATERIAL SHALL NOT BE APPLIED OVER LONGITUDINAL JOINTS. ESTABLISHMENT OF APPLICATION TOLERANCES SHALL NOT RELIEVE THE CONTRACTOR OF THEIR RESPONSIBILITY TO COMPLY AS CLOSELY AS PRACTICABLE WITH THE PLANNED DIMENSIONS.

JUST PRIOR TO THE PLACEMENT OF PAVEMENT MARKINGS THE ROAD SURFACE SHALL BE CLEANED AND FREE OF CONTAMINATION AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENTS AND/OR LAITANCE.

APPLY ALL PAVEMENT MARKINGS AS RECOMMENDED BY THE MATERIAL MANUFACTURER.

PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY TAPE MARKINGS.

THE FILLING OF TANKS, POURING OF MATERIALS OR CLEANING OF EQUIPMENT SHALL NOT BE PERFORMED ON UNPROTECTED PAVEMENT SURFACES UNLESS ADEQUATE PROVISIONS ARE MADE TO PREVENT SPILLAGE OF MATERIAL.

REFER TO SPECIAL PROVISIONS OR SPEC BOOK FOR GROUND IN/RECESSED PAVEMENT MARKING APPLICATION REQUIREMENTS.

MULTI-COMPONENT LIQUID:

THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON-METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER. NEW PORTLAND CEMENT CONCRETE SURFACES SHALL BE SANDBLAST CLEANED TO REMOVE ANY SURFACE TREATMENTS AND/OR LAITANCE.

THE MULTI-COMPONENT LIQUID MARKING APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING. GLASS BEADS SHALL BE APPLIED IMMEDIATELY AFTER APPLICATION OF THE MULTI-COMPONENT LIQUID PAVEMENT MARKING.

APPLY MULTI-COMPONENT LIQUID MARKINGS WITH A MINIMUM THICKNESS OF 20 MILS; GLASS BEADS SHALL BE APPLIED AT A RATE OF AT LEAST 25 LB/GAL. THE "NO-TRACKING" CONDITION SHALL BE DETERMINED ON AN APPLICATION OF SPECIFIED THICKNESS TO THE PAVEMENT AND COVERED WITH GLASS BEADS AT THE RATE OF AT LEAST 25 LB/GAL.

PAVEMENT MARKINGS SHALL ONLY BE APPLIED IN SEASONABLE WEATHER WHEN AIR AND PAVEMENT SURFACE TEMPERATURES ARE 40°F OR HIGHER AND SHALL NOT BE APPLIED WHEN THE WIND OR OTHER CONDITIONS CAUSE A FILM OF DUST TO BE DEPOSITED ON THE PAVEMENT SURFACE AFTER CLEANING AND BEFORE THE MARKING MATERIAL CAN BE APPLIED.

STRIPING KEY CIRCLE-MULTI COMP **IST DIGIT** 2ND DIGIT 3RD DIGIT WIDTH **PATTERN** COLOR 4.8.ETC. W - WHITE S - SOLID B - BROKEN Y - YELLOW DOTTED B - BLACK DOUBLE DOUBLE BROKEN DOUBLE DOTTED i G=GROUND IN W=WET REFLECTIVE I C=CONTRAST E=ENHANCED SKID RESISTANCE (4SW) 4" SOLID LINE WHITE PREF THERMO **EXAMPLE:** GROUND IN, CONTRAST, WET REFLECTIVE

	SALVAGE & INSTALL SIGN TYPE C											
			POSTS	5		PANEL						
SIGN NO.	TOTAL QUANTITY	NO & TYPE	KNEE BRACES QTY	LENGTH	MTG HT (1)	SIZE	PANEL LEGEND					
	EACH			FEET	FEET	INCH						
C-201	2	1 -U		13	7	24 × 24	CHIPPEWA COUNTY YY					
C-202	,	2-U		14	7	21 × 15	JCT (BLUE)					
L-202	1	2-0		14	7	24 × 24	CHIPPEWA COUNTY YY					
TOTAL	3											

SPECIFIC NOTES:

(1) MOUNTING HEIGHT IS MINIMUM (WITH A +6 INCH TOLERANCE) SEE SHEET 5 FOR TYPICAL MOUNTING.

GENERAL NOTES:

- 1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT, BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
- 2. SEE SHEET 16 FOR SIGN PLACEMENT DETAILS.
- 3. SEE SHEETS 4 TO 5 FOR STRUCTURAL DETAILS.
- 4. SEE MNDOT STANDARD SIGNS AND MARKINGS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE C SIGN PANELS.

	SALVAGE & INSTALL SIGN TYPE D										
			PC	STS		MTG	P.	PANEL			
S I GN NO	QTY	NO &	I SPACINGLENGT		LENGTH	HT SIZE			PANEL LEGEND		
	EACH	TYPE	QTY	INCH	FEET	FEET	1	NCH			
D-201	1	2-U	2	54	19	7	78	×	54	BUSINESS NAME 5 MILES RIGHT ARROW	
						,	48	×	24	GOLF CLUB 8 MILES RIGHT ARROW	
TOTAL	1										

SPECIFIC NOTES:

(1) MOUNTING HEIGHT IS MINIMUM (WITH A +6 INCH TOLERANCE). SEE SHEET 5 FOR TYPICAL MOUNTING.

GENERAL NOTES:

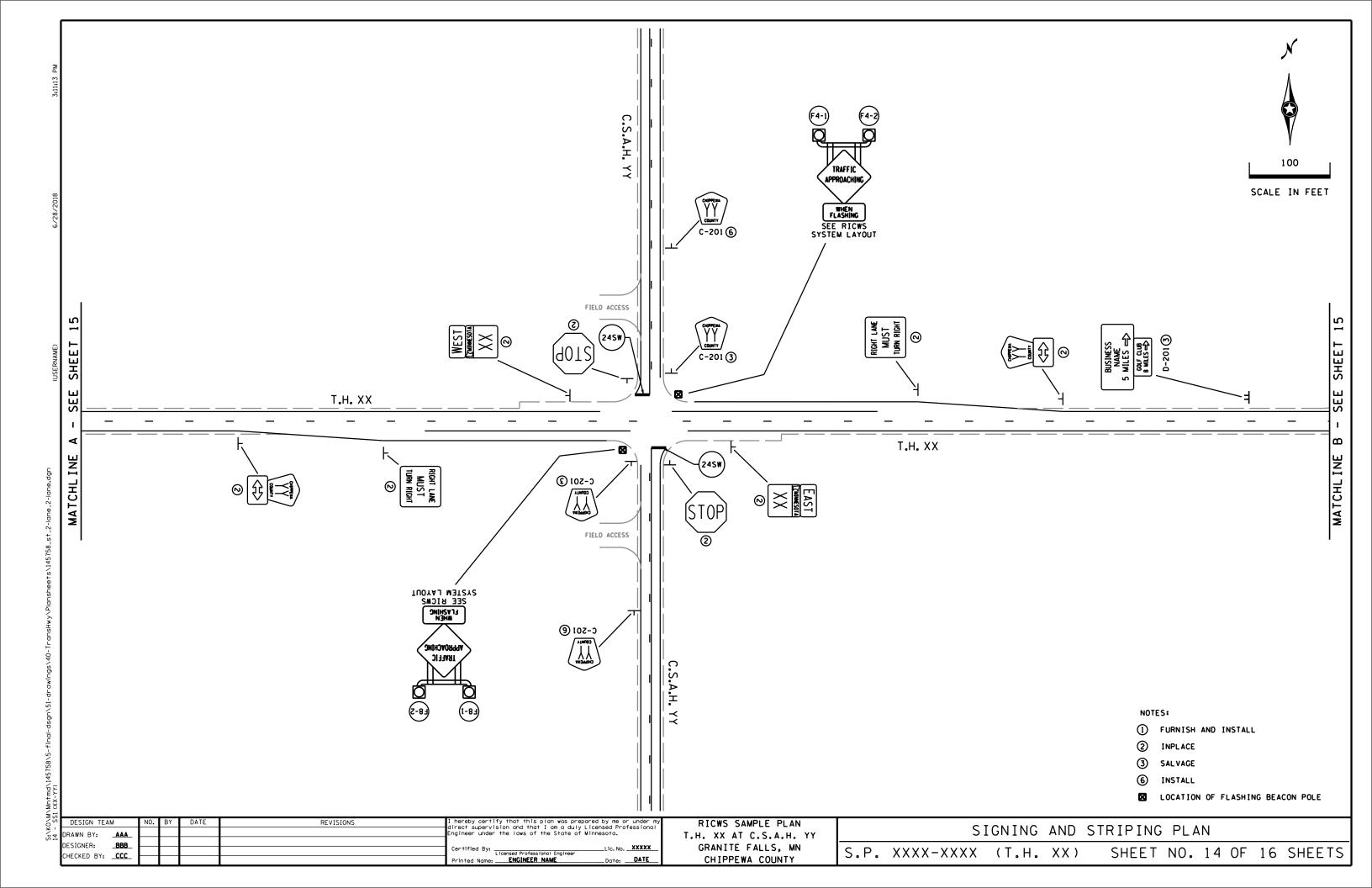
- 1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT, BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
- 2. SEE SHEET 16 FOR SIGN PLACEMENT DETAILS.
- 3. SEE SHEETS 4 TO 5 FOR STRUCTURAL DETAILS.
- 4. SEE MNDOT STANDARD SIGNS AND MARKINGS MANUAL FOR TYPE D STRINGER AND PANEL JOINT DETAILS.

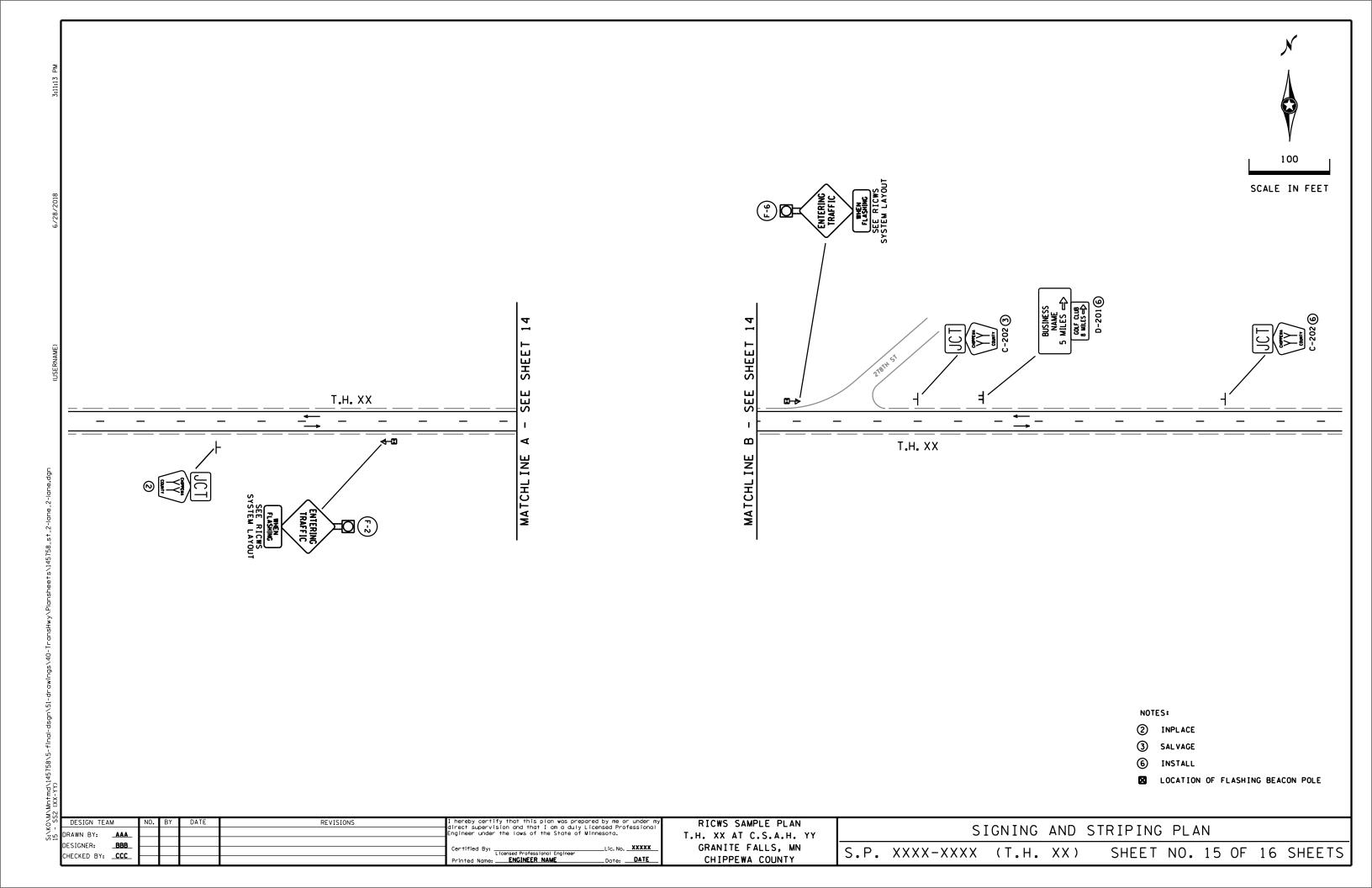
DESIGN TEAM	И	NO.	BY	DATE	REVISIONS	I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional
DRAWN BY:	AAA					Engineer under the laws of the State of Minnesota.
DESIGNER:	BBB					
CHECKED BY:	CCC					Certified By:Lic. NoLic. NoLic. No
CHECKED BT:						Printed Name: <u>ENGINEER NAME</u> Date: <u>DATE</u>

RICWS SAMPLE PLAN
T.H. XX AT C.S.A.H. YY
GRANITE FALLS, MN
CHIPPEWA COUNTY

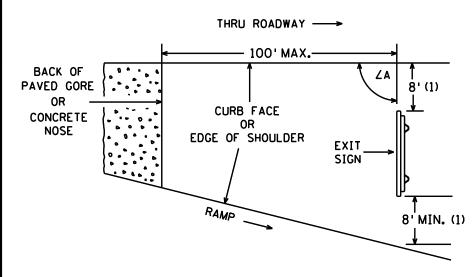
SIGNING AND STRIPING NOTES AND TABULATIONS

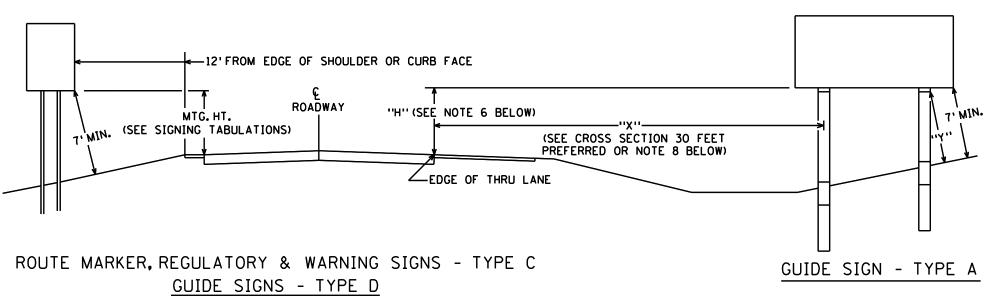
S.P. XXXX-XXXX (T.H. XX) SHEET NO. 13 OF 16 SHEETS

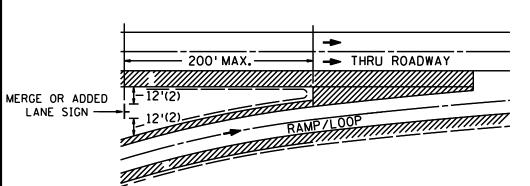




REVISED: 4-28-17







SPECIFIC NOTES:

(1) EXIT SIGN

IF THESE OFFSETS CANNOT BE ATTAINED WITHIN 100 FEET OF THE PAVED GORE, A 4 FOOT OFFSET IS ACCEPTABLE. IF THE 4 FOOT OFFSETS CANNOT BE ATTAINED WITHIN 100 FEET OF THE PAVED GORE, CONTACT THE PROJECT ENGINEER.

(2) MERGE OR ADDED LANE SIGN
IF THESE OFFSETS CANNOT BE ATTAINED WITHIN 200 FEET OF THE PAVED GORE,
A 4 FOOT OFFSET IS ACCEPTABLE. IF THE 4 FOOT OFFSETS CANNOT BE ATTAINED
WITHIN 200 FEET OF THE PAVED GORE, CONTACT THE PROJECT ENGINEER.

NOTES:

- 1. ALL TYPE C AND D MOUNTING HEIGHTS ARE MEASURED VERTICALLY FROM THE BOTTOM OF THE SIGN TO THE ELEVATION OF THE NEAR EDGE OF PAVEMENT IN RURAL AREAS OR TO THE TOP OF THE CURB OR IN THE ABSCENCE OF CURB, TO THE NEAR EDGE OF THE TRAVELED WAY.
- 2. SIGN FACES SHALL BE VERTICAL.
- 3. OVERHEAD SIGNS SHALL BE POSITIONED AT RIGHT ANGLES TO THE THRU ROADWAY UNLESS OTHERWISE NOTED.
- 4. TO AVOID SPECULAR GLARE, ZA SHALL BE APPROXIMATELY 93° FOR SIGNS LOCATED LESS THAN 30' FROM THE EDGE OF THRU LANE AND APPROXIMATELY 92° FOR SIGNS LOCATED 30' OR MORE FROM EDGE OF THRU LANE. THIS APPLIES TO SIGNS TYPE A, C, & D AND INCLUDES SIGNS IN THE GORE.
- 5. "Y" IS THE PERPENDICULAR DISTANCE FROM THE GROUND LINE TO THE FRICTION FUSE ON THE POST. THIS DISTANCE SHALL BE AT LEAST 7'.
- 6. WHERE "X" IS LESS THAN 30', "H" SHALL BE 7'. WHERE "X" IS 30' OR GREATER, MINIMUM AND PREFERRED "H" IS 5'.
- 7. LATERAL CLEARANCES GIVEN APPLY TO RIGHT AND OR LEFT SIDE INSTALLATION.
- 8. WHEN A TYPE A SIGN IS INSTALLED DIRECTLY BEHIND TRAFFIC BARRIER, THE LEFT EDGE OF THE SIGN PANEL SHALL BE LOCATED A MINIMUM OF 8 FEET BEHIND THE FACE OF THE TRAFFIC BARRIER.

SIGN PLACEMENT

RICWS SAMPLE PLAN T.H. XX AT C.S.A.H. YY GRANITE FALLS, MN CHIPPEWA COUNTY