

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 GUIDELINES FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA." MINN. PROJECT NO.:

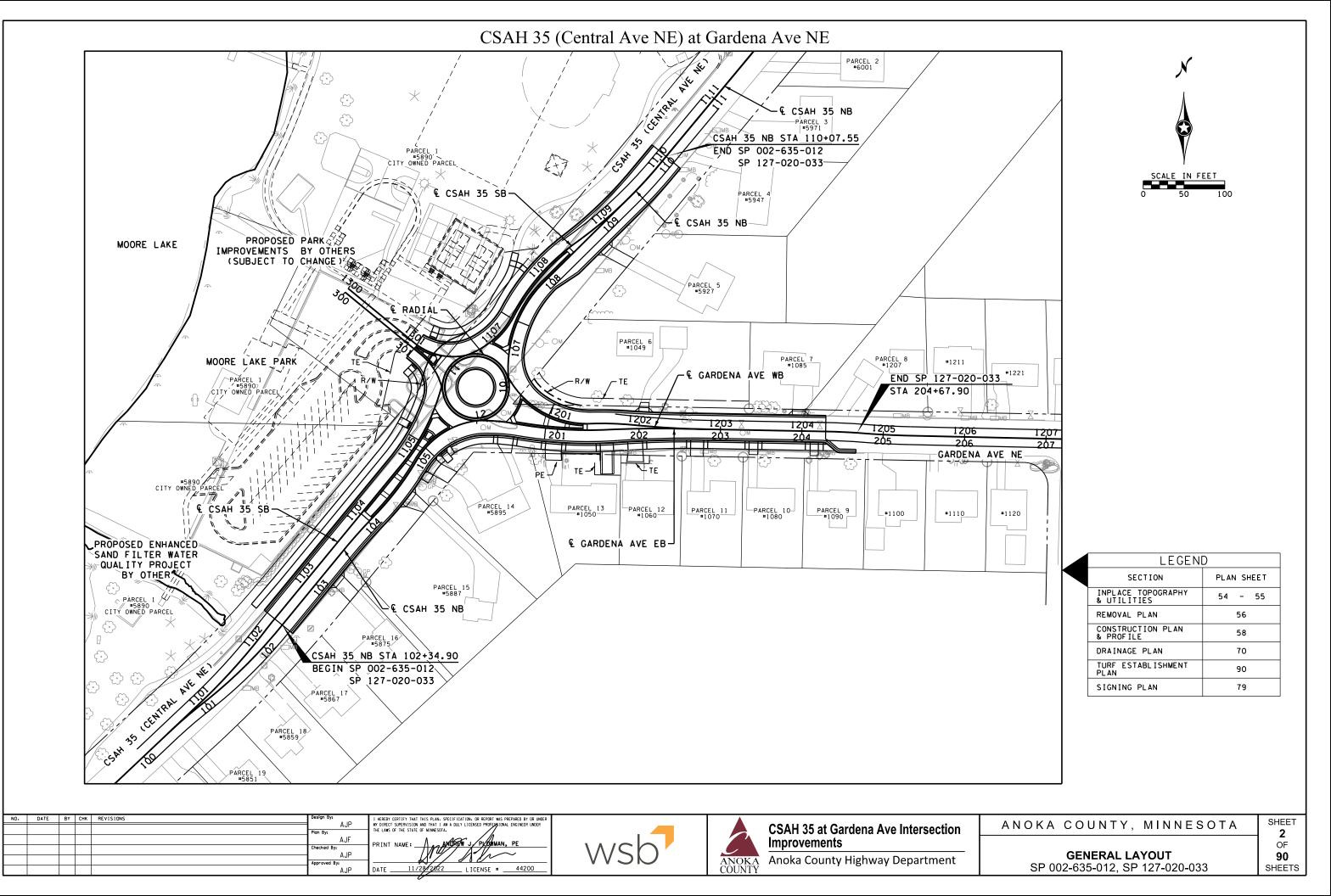
HSIP 0223 (079)

## GOVERNING SPECIFICATIONS

THE 2020 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 ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING THE LATEST EDITION OF THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

TRAFFIC CONTROL Z	JNE LAYOUIS.								
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X1 - X8	CROSS SECTIONS								
THIS PLAN CONTAINS 98 SHEETS.									
ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.									
	wsb								
BY ME OR UNDER MY	HEREBY CERTIFY THAT THIS PLAN WAS PREPARED DIRECT SUPERVISION, AND THAT I AM A DULY NAL ENGINEER UNDER THE LAWS OF THE STATE OF								
PRINTED NAME∶ANDRE₩.J. LICENSE NO442									
APPROVED: ANOKA COUNT	Y ENGINEER Joseph MacPherson Digitally signed by Joseph MacPherson Date: 2022,11.14 12:03:49 -06'00'								
APPROVED: FRIDLEY CIT	Y ENGINEER James Kosluchar Digitally signed by James Kosluchar Date: 2022.11.23 14:45:10 -06'00'								
DISTRICT STATE AID REVIEWED FOR COMPLI STATE AND FEDERAL AID	ENGINEERI ANCE WITH RULES/POLICY Dan Erickson Digitally signed by Dan Erickson Date: 2022.11.29 16:15:27 -06'00'								
FOT STATE AID ENGIN APPROVED FOR STA FEDERAL AID FUN	Dan Erickson Date: 2022.11.29 16:15:52								
PLAN WERE MADE BY	HAT THE FINAL FIELD REVISIONS, IF ANY, OF THE ME OR UNDER MY DIRECT SUPERVISION AND THAT I PROFESSIONAL ENGINEER UNDER THE LAWS OF THE								
PRINTED NAME: LICENSE NO	·······								
SP 002-635-012,	SP 127-020-033								
,	SHEET NO. 1 OF 90 SHEETS								



						PROJECT	ANOKA COUNTY	RTICIPATING - FEDER	AL DRA I NAGE
TAB ID	SHEET NO.	ITEM	DESCRIPTION	NOTES	UNIT	TOTAL ESTIMATED	SP 002-635-012 ROADWAY ESTIMATED	SP 127-020-033 ROADWAY ESTIMATED	90% FEDERAL A 10% STATE A ESTIMATED
		2021.501	MOBILIZATION		LUMP SUM		QUANT   TY 0.65	OUANTITY 0.11	<u>OUANTITY</u> 0.24
		2021.301				1	0:05	0.11	0.24
		2031.502	FIELD OFFICE		EACH	1	1		
A	5	2101.502	CLEARING	(1)	EACH	12	12		
A	5	2101.502	GRUBBING	(1)	EACH	12	12		
		2102.503	PAVEMENT MARKING REMOVAL	(15)	LIN FT	2120	2120		
В	5	2104.502	REMOVE DRAINAGE STRUCTURE		EACH	7	7		
K G	78 7	2104.502	REMOVE SIGN REMOVE MAIL BOX SUPPORT	(2)	E ACH E ACH	17	<u>17</u> 4		
ĸ	78	2104.502	SALVAGE SIGN	(2)	EACH	2	2		
G	7	2104.502	SALVAGE MAIL BOX SUPPORT	(2)	EACH	6	6		
		2104 507			1 111 5 7	477	177		
A A	5	2104.503 2104.503	SAWING CONCRETE PAVEMENT (FULL DEPTH) SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN FT LIN FT	137 384	<u>137</u> 384		
B	5	2104.503	REMOVE SEWER PIPE (STORM)			560	560		
Ă	5	2104.503	REMOVE CURB AND GUTTER		LIN FT	2648	2648		
A	5	2104.504	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	185	185		
A	5	2104.504	REMOVE CONCRETE DRIVEWAT PAVEMENT	(14)	SU TD SO YD	1489	1489		
A	5	2104.504	REMOVE BITUMINOUS DRIVEWAY PAVEMENT		SQ YD	157	157		
A	5	2104.504	REMOVE BITUMINOUS PAVEMENT		SQ YD	6585	6585		
A	5	2104.518	REMOVE BITUMINOUS WALK		SQ FT	4937	4937		
A	5	2104.518	REMOVE CONCRETE WALK		SO FT	32	32		
A	5	2104.518	REMOVE BRICK MEDIAN		SO FT	423	423		
~~~~~	l	2104.602	SALVAGE MAIL BOX	(2)	EACH	10	10		
	56R	2104.607					~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		16.
		000000							
H H	8	2106.507 2106.507	EXCAVATION - COMMON EXCAVATION - SUBGRADE (P)		CU YD CU YD	2743 2759	2743 2759		
H	8	2106.507	SELECT GRANULAR EMBANKMENT (CV)		CU YD	2830	2830		
н	8	2106.507 2106.601	COMMON EMBANKMENT (CV) (P) DEWATERING		CUYD LUMP SUM	1566	1566		
									1
С	5	2108.504	GEOTEXTILE FABRIC TYPE 5		SQ YD	5814	5814		
		2123.610	STREET SWEEPER (WITH PICKUP BROOM)	(4)	HOUR	100	100		
		2123.610	1.5 CU YD BACKHOE	(3)	HOUR	100	100		
		2130.523	WATER	(5)	MGAL	200	100	100	
с	5	2211.507	AGGREGATE BASE (CV) CLASS 5 (P)	(19)	CU YD	1452	1354	98	
Ē	6R	2211.507	AGGREGATE BASE (CV) CLASS 5 (DRIVEWAYS)	(17)	CU YD	68	68	50	
		2271 500			TON	20	20		
		2231.509	BITUMINOUS PATCHING MIXTURE		TON	20	20		
D	6R	2301.502	DOWEL BAR		EACH	1300	1300		
D	6R 6R	2301.504	CONCRETE PAVEMENT 7.0" CONCRETE PAVEMENT 7.0" SPECIAL	(6)	SO YD SQ YD	1293 737	1293 737		
D	6R	2301.602	DRILL & GROUT REINF BAR (EPOXY COATED)	(7)	EACH	135	124	11	
С	5	2357.506	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	381	381		
C	5	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (2.8)	(8)	TON	126	85	41	
E	6R	2360.509	TYPE SP 9.5 WEARING COURSE MIXTURE (3.C)	(16)	TON	24	24	··	
C	5	2360.509	TYPE SP 12.5 WEARING COURSE MIX (3.C)		TON	835	835		
С	5	2360.509	TYPE SP 12.5 NON-WEAR COURSE MIX (3.C)		TON	276	276		
I	73R	2501.502	15" RC PIPE APRON		EACH	1			1
I	73R	2501.502	36" RC PIPE APRON		EACH	1			1
		2502.503	4" PERF TP PIPE DRAIN	(13)(20)		600		600	
		2502.602	IRRIGATION SYSTEM REPAIR	(9)	EACH	5	5		
<u> </u>	73R	2503.503	15" RC PIPE SEWER DES 3006 CL V		LIN FT	451			451
I	73R	2503.503	18" RC PIPE SEWER DES 3006 CL III		LIN FT	245			245
	73R	2503.503				130			130
1	73R	2503.503	24" RC PIPE SEWER DES 3006 CL 111	L	LIN FT	83			83
1	73R	2503.503	30" RC PIPE SEWER DES 3006 CL 111		LIN FT	348			348

NO. DATE BY CHK REVISIONS ▲ 2023/01/10 AJF AJP ADDENDUM 1: ADD ONE ITEM

I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. AJP Plan Byr ANDREW J PLONMAN, PE AJF PRINT NAME: hecked By: AJP proved By: AJP DATE \_\_\_ 1/11/2023 \_\_\_\_\_LICENSE # \_\_\_\_\_44200



CSAH 35 at Gardena Ave Intersection Improvements

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NOTES: (1) NO TREES SHALL BE CLEARED OR GRUBBED WITHOUT THE ENGINEER'S APPROVAL. (2) CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF TEMPORARY MAIL SERVICE AND FINAL MAIL BOX PLACEMENT. (3) TO BE USED AS DIRECTED BY THE ENGINEER.
(4) TO BE USED FOR SURFACE CLEANING AND/OR AS DIRECTED BY THE ENGINEER. (5) TO BE USED FOR DUST CONTROL AND/OR AS DIRECTED BY THE ENGINEER. (6) COLORED CONCRETE, INTEGRAL RED (FS 31136) (7) TO BE USED IN PEDESTRIAN RAMP LANDINGS PER MN/DOT STANDARD PLAN 5-297.250.
(8) TO BE USED FOR BITUMINOUS TRAILS.
(9) TO BE MEASURED BY THE NUMBER OF SUSTENCE (9) TO BE MEASURED BY THE NUMBER OF SYSTEMS REPAIRED, ONE SYSTEM PER PARCEL. (10) THIS ITEM INCLUDES THE QUANTITY FOR CONCRETE MEDIANS AND BOULEVARDS. (11) SEE DETAIL IN TYPICAL SECTIONS. (12) SEE TABULATION FOR COLOR. (13) GEOTEXTILE WRAP, 3733, TYPE 1 (INCIDENTAL). (14) 6" BIT PAVEMENT OVER 8" CONCRETE PAVEMENT (ASSUMED TO BE REINFORCED) AND LOCATED IN MIDDLE 24' OF CSAH 35 (15) TO BE USED OUTSIDE OF THE CONSTRUCTION LIMITS IN LANE TRANSITION AREAS TO OBLITERATE CONFLICTING PAVEMENT MARKINGS. (16) TO BE USED FOR BITUMINOUS DRIVEWAYS. (17) TO BE USED UNDER DRIVEWAYS. (18) THE CONTRACTOR SHALL MATCH AS CLOSELY AS POSSIBLE THE ATTRIBUTES OF THE INPLACE DRIVEWAY INCLUDING BUT NOT LIMITED TO THE COLOR, STAMP PATTERN, WIDTH, ETC OF THE CONCRETE DRIVEWAY EDGE LOCATED AT #1050 GARDENA AVE NE. (19) INCLUDES AGGREGATE UNDER BITUMINOUS PAVEMENT, TRAIL, CURB & GUTTER, CONCRETE WALK, AND CONCRETE PAVEMENT. (20) SEE TYPICAL SECTIONS "DETAIL C" FOR INSTALLATION REQUIREMENTS.

(P) PLAN QUANTITY

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### BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX: - 2360 MIX113 LBS/S	Y/IN
TACK COAT: - NEW SURFACES	L/SY
SEED MIXTURE APPLICATION RATE: - 25-151120 LBS/	ACRE
FERTILIZER APPLICATION RATE: - TYPE 3	ACRE
RAPID STABILIZATION: - METHOD 36 MGAL/	ACRE
ANOKA COUNTY, MINNESOTA	SHEET 3R
STATEMENT OF ESTIMATED QUANTITIES SP 002-635-012, SP 127-020-033	OF 90 SHEETS

SP 002-635-012, SP 127-020-033

						DDD IF CT		RTICIPATING - FEDER	
TAB ID	SHEET NO.	ITEM	DESCRIPTION	NOTES	UNIT	PROJECT TOTAL ESTIMATED	ANOKA COUNTY SP 002-635-012 ROADWAY ESTIMATED	CITY OF FRIDLEY SP 127-020-033 ROADWAY ESTIMATED	DRAINA 90% FEDER 10% STAT ESTIMA
						QUANTITY	QUANTITY	QUANTITY	QUANTI
I B	73R 5	2503.602 2503.603	CONNECT TO EXISTING STORM SEWER PLUG FILL & ABANDON PIPE SEWER		EACH LIN FT	5	73		5
	5	2303.803	FLUG FILL & ADANDON FIFE SEWER			13	15		
A	5	2504.602	ADJUST HYDRANT		EACH	1		1	
A	5	2504.602	ADJUST GATE VALVE & BOX		EACH	8		8	
J	74	2506.502	CASTING ASSEMBLY		EACH	35			35
A	5	2506.502	ADJUST FRAME RING & CASTING		EACH	6		6	55
1	73R	2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 1		EACH	5		-	5
1	73R	2506.502	CONST DRAINAGE STRUCTURE DESIGN SPEC 2		EACH	1			1
1	73R 73R	2506.503 2506.503	CONST DRAINAGE STRUCTURE DESIGN H CONST DRAINAGE STRUCTURE DESIGN SD-48		LIN FT LIN FT	15.7			15.
1	73R	2506.503	CONST DRAINAGE STRUCTURE DESIGN SD 40		LIN FT		·····		15.
I	73R	2506.503	CONST DRAINAGE STRUCTURE DES 48-4020		LIN FT	62.2			62.2
1	73R	2506.503	CONST DRAINAGE STRUCTURE DES 60-4020			28.7			28.7
1	73R	2506.602	CONNECT INTO EXISTING DRAINAGE STRUCTURE		EACH	2			2
	73R	2511.504	GEOTEXTILE FILTER TYPE 4		SO YD	~~ <sup>11</sup>			1000017
<u> </u>	73R	2511.507	ŘAŇDĎM ŘIPŘAP ČĽAŠS III		ČU YD Č				7
$\rightarrow$	million	-2511.607	INSTALL RANDOM RIPRAP	from	~~Gr vo~	<u> </u>		••••••	J16
D	6R	2521.518	4" CONCRETE WALK	(10)	SQ FT	1723	1723		
D	6R	2521.518	4" CONCRETE WALK SPECIAL	(6)	SQ FT	1453	1453		
D	6R	2521.518	6" CONCRETE WALK		SO FT	1719	601	1118	
D	6R	2531.503	CONCRETE CURB AND GUTTER DESIGN R418		LIN FT	268	268		
D	6R	2531.503	CONCRETE CURB AND GUTTER DESIGN R418	(11)		983	983		
D	6R	2531.503	CONCRETE CURB AND GUTTER DESIGN B424		LIN FT	2596	1298	1298	
D	6R	2531.503	CONCRETE CURB DESIGN V10		LIN FT	70		70	
E	6R	2531.504	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	517	517		
E	6R	2531.604	6" CONCRETE DRIVEWAY PAVEMENT SPECIAL	(18)	SQ YD	13	13		
D	6R	2531.618	TRUNCATED DOMES		SQ FT	101	17	84	
	7	25.40, 002			EACH	6	6		
G	7	2540.602	INSTALL MAIL BOX SUPPORT INSTALL MAIL BOX		EACH	10	10		
G	7	2540.602	MAIL BOX SUPPORT		EACH	4	4		
							-		
<u>м</u>	<u>84</u> 84	2545.502 2545.502	LIGHTING UNIT TYPE 9-30 LIGHT FOUNDATION DESIGN E		E ACH E ACH	<u>11</u> 11	6	5	
M	84	2545.502	SERVICE CABINET TYPE -L1		EACH	1	1	J	
М	84	2545.502	SERVICE EQUIPMENT		EACH	1	1		
M	84	2545.502	EQUIPMENT PAD B		EACH	1	1	<b>COD</b>	
<u>м</u>	<u>84</u> 84	2545.503 2545.503	1.5" NON-METALLIC CONDUIT UNDERGROUND WIRE 1/C 8 AWG		LIN FT LIN FT	1200 4920	<u> </u>	600 2460	
	01	2345:505			C1N 1 1	1520	2100	2400	
		2563.601	TRAFFIC CONTROL		LUMP SUM	1	0.65	0.11	0.24
к	78	2564 502	INSTALL SIGN		EACH	2	2		
K	78	2564.502			EACH	8	8		
ĸ	78	2564.618	SIGN		SO FT	297	297		
		2505 010			CYCTE				
м	84	2565.616	PEDESTRIAN CROSSWALK FLASHER SYSTEM		SYSTEM	1		1	
		2573.501	STABILIZED CONSTRUCTION EXIT		LUMP SUM	1	1		
		2573.501	EROSION CONTROL SUPERVISOR		LUMP SUM	1	1		
F	60	2673 602			FACU	22	22		
F	6R 6R	2573.502 2573.503	STORM DRAIN INLET PROTECTION SEDIMENT CONTROL LOG TYPE COMPOST		EACH LIN FT	33 1436	<u>33</u> 1436		
F	6R	2574.505	SOIL BED PREPARATION		ACRE	1.4	1.4		
F	6R	2574.507	FERTILIZER TYPE 3		POUND	464	464		
$\sim$	6R	2575.504	SQDQ INC TYPE LAWN	$\uparrow$	SQ YD				
F	6R	2575.504	ROLLED EROSION PREVENTION CATEGORY 20		SQ YD	4901	4901		
F	6R	2575.505	SEEDING		ACRE	1.4	1.4		
F	6R 6R	2575.508 2575.523	SEED MIXTURE 25-151 RAPID STABILIZATION METHOD 3		POUND MGAL	161 11	<u>161</u> 11		
·	UN	23131323			MUAL				
L	81	2582.503	4" SOLID LINE MULTI-COMPONENT	(12)	LIN FT	3999	3999		
<u> </u>	81	2583.503		(12)	LIN FT	300	300		
L	<u>81</u> 81		4" DOUBLE SOLID LINE MULTI COMPONENT 4" SOLID LINE PREFORM THERMO	(12)	LIN FT LIN FT	984 716	<u>984</u> 716		
1 1								1	1
L	81	2582.503		(12)	LIN FT	101	101		

NO. DATE BY CHK REVISIONS ▲ 2023/01/10 AJF AJP ADDENDUM 1: ADD TWO ITEMS, UPDATE QUANTITIES

I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. AJP ANDREW J PLONMAN, PE AJF PRINT NAME: AJP AJP DATE \_\_\_ 1/11/2023 \_\_\_\_\_LICENSE # \_\_\_\_\_44200

Plan Byr

hecked By:

proved By:



CSAH 35 at Gardena Ave Intersection Improvements

PM

NOTES: (1) NO TREES SHALL BE CLEARED OR GRUBBED WITHOUT THE ENGINEER'S APPROVAL. (2) CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF TEMPORARY MAIL SERVICE AND FINAL MAIL BOX PLACEMENT. (3) TO BE USED AS DIRECTED BY THE ENGINEER.
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(P) PLAN QUANTITY

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### BASIS FOR QUANTITIES

UNIT WEIGHT OF BITUMINOUS MIX: - 2360 MIX113 LBS/S	Y/IN
TACK COAT: - NEW SURFACES	L/SY
SEED MIXTURE APPLICATION RATE: - 25-151120 LBS/	ACRE
FERTILIZER APPLICATION RATE: - TYPE 3	ACRE
RAPID STABILIZATION: - METHOD 36 MGAL/	ACRE
ANOKA COUNTY, MINNESOTA	SHEET <b>4R</b>
STATEMENT OF ESTIMATED QUANTITIES SP 002-635-012, SP 127-020-033	OF 90 SHEETS

SP 002-635-012, SP 127-020-033

					CONCR	ETE TAB	ULATION								D	
	CONCRE TE	CURB & GUTT	ER DESIGN	CONCRETE CURB	TRUNCAT		DRILL & GRO	UT REINF BAR	4" CONCRETE WALK SPECIAL	DOWEL	7.0" CONCRETE PAVEMENT (SPECIAL)	7.0" CONCRETE	4" CONCRETE			
LOCATION	B418 (MOD)	B424	R418	DESIGN V10	TRUNCATED DOMES		EPOXY COATED		WALK SPECIAL (4)(5)	BARS	(5)	PAVEMENT	WALK	6" CONCR	6" CONCRETE WALK	
LOCATION	LIN FT LIN FT LIN FT SQ FT		E4	СН	SQ FT	EACH	SQ YD	SQ YD	SQ FT	SQ	FT					
	(A)	(C)	(A)	(B)	(A)	(B)	(A)	(B)	(A)	(A)	(A)	(A)	(B)	(A)	(B)	
SP 002-635-012 & SP 127-020-033																
CSAH 35																
STA 100+00.00 TO STA 105+14.44	324	587					18						475	130		
STA 107+34.09 TO STA 111+00.00	224	576					10						424	147		
ROUNDABOUT																
STA 10+00.00 STA 12+57.61(1)	339	655	268		17	84	19	11	1453	1300	737	1293	250	324	620	
GARDENA AVE NE																
PARK ENTRANCE		18														
STA 200+85.20 TO STA 208+00.00	96	760		70			77						574	<b></b>	498	
PROJECT TOTAL	983	2596	268	70	17	84	124	11	1453	1300	737	1293	1723	601	1118	

NOTES: (4) FRONT PART OF SPLITTER ISLAND, SEE SHEET 62 FOR DETAILS (5) COLOR SHALL BE INTEGRAL RED (FS COLOR 31136)

	D	RIVE	NAY TABI	JLATION			E
ALIGNMENT	STA	LT/RT/ MEDIAN	HOUSE NO.	TYPE SP 12.5 WEARING COURSE MIXTURE (3,C)	6" CONCRETE DRIVEWAY PAVEMENT	6" CONCRETE DRIVEWAY PAVEMENT SPECIAL (6)	AGGREGATE BASE (CV) CLASS 5
				TON	SQ YD	SQ YD	CU YD
				(A)	(A)	(A)	(A)
SP 002-635-012 & SP 127-020-	-033						
CSAH 35_NB	103+21	RT	5875		56		7
CSAH 35_NB	104+58	RT	5887	5	9		2
CSAH 35_NB	104+58	MEDIAN	5887		24		3
CSAH 35_NB	105+02	RT	5895		61		7
CSAH 35_NB	105+02	MEDIAN	5895		20		3
GARDENA _EB	200+39	RT	5895		49		6
GARDENA _EB	200+97	RT	1050	5	34		5
GARDENA _EB	200+97	MEDIAN	1050		26		3
GARDENA _EB	201+60	RT	1050		74	13	9
GARDENA _EB	201+95	RT	1060	6	26		4
GARDENA _EB	202+72	RT	1070		46		6
GARDENA _EB	203+41	RT	1080		31		4
GARDENA _EB	204+16	RT	1090		32		4
GARDENA _EB	203+95	LT	1085	1	12		2
GARDENA _EB	202+06	LT	1049	2	10		2
CSAH 35_NB	108+74	RT	5927	9	11		3
	1	PRO	JECT TOTAL	28	521	13	70

NOTES: (6) THE CONTRACTOR SHALL MATCH AS CLOSELY AS POSSIBLE THE ATTRIBUTES OF THE INLPLACE DRIVEWAY INCLUDING BUT NOT LIMITED TO THE COLOR, STAMP PATTERN, WIDTH, ETC.

	TURF EST	ABL ISHME	NT & ERO	SION C	ONTROL				F
LOCATION	RAPID STABILIZATION METHOD 3	ROLLED EROSION PRODUCT CATEGORY 20	À SODDING TYPE LAWN	SEEDING	SEED MIXTURE 25-151	SOIL BED PREPARATION	FERTILIZER TYPE 3	STORM DRAIN INLET PROTECTION	SEDIMENT CONTROL LOG, TYPE COMPOST
	MGAL	SQYD	SQ YD	ACRE	POUND	ACRE	POUND	EACH	LIN FT
	(A)	(A)		(A)	(A)	(A)	(A)	(A)	(A)
SP 002-635-012 & SP 127-020-033			>	)					
CSAH 35				)					
STA 100+00.00 TO STA 105+14.44	2.7	1564	> •	0.3	40	0.3	116	9	333
STA 107+34.09 TO STA 111+00.00	2.7	1195	{	0.3	40	0.3	116	5	344
ROUNDABOUT									
STA 10+00.00 TO STA 12+57.61(1)	1.8	908	}	0.2	27	0.2	77	15	420
GARDENA AVE NE				)					
PARK ENTRANCE	0.9	39	}	0.1	14	0.1	39		338
STA 200+85.20 TO STA 208+00.00	2.7	1195	88	0.3	40	0.3	116	4	
PROJECT TOTAL	11	4901		1.4	161	1.4	464	33	1436

 
 NO.
 DATE
 BY
 CHK
 REVISIONS

 A
 2023/01/10
 AJF
 AJP
 ADDENDUM 1: ADD SODDING TYPE LAWN ITEM
 I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MT DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LANS OF THE STATE OF MINNESOTA. AJP Plan By: e of winesora. AJF PRINT NAME: pproved By: AJP DATE \_\_\_\_ 1/11/2023 \_\_\_\_\_LICENSE # \_\_\_\_\_44200



CSAH 35 at Gardena Ave Intersection Improvements

М

GENERAL NOTES

① INCLUDES STA 105+14.44 TO STA 107+34.09

### FUNDING GROUP

(A) 100% COUNTY (SP 002-635-012)
(B) 100% CITY (SP 127-020-033)
(C) 50% COUNTY (SP 002-635-012),
50% CITY (SP 127-020-033)

ANOKA COUNTY, MINNESOTA	SHEET
	OF
QUANTITY TABULATIONS	90
SP 002-635-012, SP 127-020-033	SHEETS

MAILBOX REPLACEMENT SCHEDULE												
		EVISTING	PROPOSED		MAILBOX			SL	JPPORT			
HOUSE NUMBER	STREET	SIDE OF ROAD	SIDE OF ROAD	NON CONFORMING	SALVAGE EXISTING	INSTALL OLD	NON CONFORMING	SALVAGE AND INSTALL	DISPOSE OF EXISTING	F&I NEW PER MNDOT STD PLATE 9350B		
5875	CSAH 35	RT	RT		Х	X			Х	X		
5887	CSAH 35	RT	RT		X	X			X	X		
5927	CSAH 35	RT	RT		Х	X			Х	X		
5947	CSAH 35	RT	RT		х	X			Х	X		
1049	GARDENA AVE	LT	LT		X	X		X				
1050	GARDENA AVE	RT	LT	X	Х	X	Х	Х				
1060	GARDENA AVE	RT	LT	X	Х	X	X	Х				
1070	GARDENA AVE	RT	LT		Х	X	X	Х				
1080	GARDENA AVE	RT	LT	X	Х	X	X	Х				
1090	GARDENA AVE	RT	RT		Х	X	Х	Х				

ITEM NO.	DESCRIPTION	QUANTITY	UNIT
2104.502	REMOVE MAIL BOX SUPPORT	4	EACH
2104.502	SALVAGE MAIL BOX SUPPORT	6	EACH
2104.602	SALVAGE MAIL BOX	10	EACH
2540.602	INSTALL MAIL BOX SUPPORT	6	EACH
2540.602	INSTALL MAIL BOX	10	EACH
2540.602	MAIL BOX SUPPORT	4	EACH

GENERAL NOTES - SALVAGE AND REINSTALL CONFORMING MAILBOX SUPPORTS PER SCHEDULE. SALVAGE AND REINSTALL NEWSPAPER BOXES AS NECESSARY TO RESTORE TO PRECONSTRUCTION CONDITIONS. - MAILBOX SUPPORTS AND MAILBOXES REMOVED SHALL BE OFFERED TO THE HOMEOWNER. IF THE HOMEOWNER DOES NOT DESIRE TO KEEP NON-CONFORMING SUPPORT AND MAILBOX THE CONTRACTOR SHALL DISPOSE OF IT OFF SITE. IF THE HOMEOWNER DESIRES TO HAVE THE EXISTING MAILBOX INSTALLED ON THE NEW SUPPORT, THE CONTRACTOR SHALL INSTALL IT ACCORDINGLY. THIS WORK SHALL BE CONSIDERED INCIDELTAL TO SUPPORT INSTALLATION. - SALVAGE NEWPAPER BOXES/TUBES AND REINSTALL PER MNDOT STD PLATE 3650B AND CITY STD PLATE GEN-2, INCIDENTAL.

NO.	DATE	BY	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER			
					Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					Δ.IF	PRINT NAME: A ANDREW J PLOWMAN. PE			Improvements
					Checked By:				improvements
					AJP		VVJVJ	ANOKA	Anoka County Highway Department
		-			Approved By: A ID	DATE 11/29/2022 LICENSE # 44200		COUNTY	Anoka county highway bepartment
					AJI			COUNTI	

	1	INCLUDES STA 105+14.44 107+34.09	TO STA
		FUNDING GROUP	
	(B)	100% COUNTY (SP 002-635 100% CITY (SP 127-020-0 50% COUNTY (SP 002-635 50% CITY (SP 127-020-0	)33) -012),
ANOKA COUNT	-Υ,	MINNESOTA	SHEET <b>7</b>
<b>QUANTITY T</b> SP 002-635-012			OF <b>90</b> SHEETS

GENERAL NOTES

LOCATION
SP 002-635-012 & SP 127-020-033
CSAH 35
STA 100+00.00 TO STA 105+14.44
STA 107+34.09 TO STA 111+00.00
ROUNDABOUT
STA 10+00.00 TO STA 12+57.61(1)
GARDENA AVE NE
PARK ENTRANCE

NOTES:

- REMOVAL OF MISCELLANEOUS SHRUBS SHALL BE INCIDENTAL.

PROJECT TOTAL

- SAWING OF CONCRETE CURB & GUTTER IS INCIDENTAL

STA 200+85.20 TO STA 208+00.00

(1) LOCATED IN MIDDLE 24' OF CSAH 35, ASSUMED 6" BITUMINOUS PAVEMENT OVER 8" CONCRETE PAVEMENT

BITUMINOUS PAVEMENT

SQ YD

(A)

1389

1335

2005

69

1787

6585

CONCRETE PAVEMENT (1)

SQ YD

(A)

561

538

390

1489

EXISTING STORM SEWER TABULATION									В					
	ELEVATION REMOVE													
EX. STRUCTURE NO.	DRAINS TO STRUCTURE	ALIGNMENT	STATION	OFFSET (FT)	SIDE	EXISTING TOP OF CASTING	OUTLET	CASTING TYPE	P I PE S I ZE	P I PE TYPE	SEWER PIPE (STORM)	PLUG FILL & ABANDON	DRAINAGE STRUCTURE	
						0431110					LIN FT	LIN FT	EACH	
4000	MOORE LAKE	CSAH 35 NB	101+84	16	RT	880.29	876.99	CB	UNK	RC				
4001	4000	CSAH 35 NB	102+53	30	RT	881.52	UNK	DI	UNK	RC		73		
4002 (2)	MOORE LAKE	CSAH 35 NB	102+63	58	LT	UNK	UNK	UNK	UNK	UNK				
4003	4001	CSAH 35 NB	105+43	27	RT	882.21	879.01	CB	18"	RC			1	
4004	4003		CSAH 35 NB 106	106+21	6	RT	004 00	879.68	мн	18"	RC	33		1
4004	4006	LSAH 33 NB	106+21	Ö	<b>R</b> 1	884.08	019.00	MH	21"	RC	86			
4005	4004	CSAH 35 NB	106+36	15	RT	884.22	880.52	CB	UNK	RC	21		1	
4006	4002	CSAH 35 NB	106+75	70	LT	882.45	878.78	MH	21"	RC	349		1	
4007	4004	CSAH 35 NB	106+73	6	RT	882.2	880.00	СВ	UNK	RC	55		1	
4009	4004	GARDENA EB	202+56	10	LT	895.23	886.63	MH	24	RC				
4008	4009	GARDENA EB	202+55	25	RT	895.19	890.29	CB	UNK	UNK	16		1	
4010	4009	GARDENA EB	202+54	19	LT	894.68	891.68	CB	UNK	UNK			1	
4011	4009	GARDENA EB	AT TENNIS	ON DRIVE	LT	UNK	UNK	MH	21"	RC				
	PROJECT TOTAL 560 73 7													

REMOVALS

BRICK MEDIAN

SQ FT

(A)

423

423

SQ FT

(A)

32

32

REMOVE

BITUMINOUS DRIVEWAY PAVEMENT

SQ YD

(A)

32

44

81

157

CONCRETE DRIVEWAY PAVEMENT

SQ YD

(A)

102

7

76

185

NOTES:

(2) PROPOSED PARK IMPROVEMENTS STRUCTURE

BITUMINOUS AND AGGREGATE TABULATION					C			
	TYPE	SP 9.5	TYPE S	P 12.5			BITUMINOUS	
LOCATION	WEARING COU	RSE MIX (2,B)	WEARING COURSE MIX (3,C)	NON-WEAR COURSE MIX (3,C)	AGGREGATE E CLASS 5	5 (3)	MATERIAL FOR TACK COAT	GEOTEXTILE FABRIC TYPE 5
	TON		TON	TON	CU YD		GALLON	SQ YD
	(A)	(B)	(A)	(A)	(A)	(B)	(A)	(A)
SP 002-635-012 & SP 127-020-033								
CSAH 35								
STA 100+00.00 TO STA 105+14.44	39		277	139	296	10	127	1224
STA 107+34.09 TO STA 111+00.00	26		274	137	277	9	127	1212
ROUNDABOUT								
STA 10+00.00 TO STA 12+57.61(1)	20	12			383	27		2125
GARDENA AVE NE								
PARK ENTRANCE					2			
STA 200+85.20 TO STA 208+00.00		29	284		396	52	127	1253
PROJECT TOTAL	85	41	835	276	1354	98	381	5814

NOTES:

(3) INCLUDES AGGGREGATE UNDER BITUMINOUS PAVEMENT, TRAIL, CURB & GUTTER, CONCRETE WALK, AND CONCRETE PAVEMENT

BASIS OF QUANTITIES:

- BITUMINOUS DENSITY: 113 LB/SY/IN

- TACK COAT BETWEEN BITUMINOUS LIFTS: 0.05 GAL/SY

NO. DATE BY CHK REVISIONS I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. AJP Plan Byr AJF ANDER J PLONMAN, PE PRINT NAME: hecked By: AJP proved By: AJP DATE \_\_\_\_ 11/28/2022 \_\_\_\_\_LICENSE # \_\_\_\_\_44200



CSAH 35 at Gardena Ave Intersection Improvements

SAWING BIT PAVEMENT (FULL DEPTH)

LIN FT

(A)

50

49

73

71

141

384

CONCRETE BITUMINOUS CURB AND GUTTER

SQ FT

(A)

2239

1522

1176

4937

LIN FT

(A)

563

535

819

10

721

2648

SAWING CONC PAVEMENT (FULL DEPTH)

LIN FT

(A)

47

18

16

56

137

н

АM

				Α
	ADJUST			
IYDRANT	GATE VALVE & BOX	FRAME & RING CASTING	CLEARING	GRUBBING
EACH	EACH	EACH	EACH	EACH
(B)	(B)	(B)	(A)	(A)
	2	2	5	5
	1		3	3
	3	2	1	1
1	2	2	3	3
1	8	6	12	12

_	
_	
_	
_	
_	

GENERAL NOTES

① INCLUDES STA 105+14.44 TO STA 107+34.09

### FUNDING GROUP

(A) 100% COUNTY (SP 002-635-012)
(B) 100% CITY (SP 127-020-033)
(C) 50% COUNTY (SP 002-635-012),
50% CITY (SP 127-020-033)

ANOKA COUNTY, MINNESOTA	SHEET
QUANTITY TABULATIONS SP 002-635-012, SP 127-020-033	OF 90 SHEETS

EART	H WORK TAE			Н
	EXCAV COMMON	ATION SUBGRADE	COMMON EMBANKMENT	SELECT GRANULAR
STA. – STA.	CU YD (EV)	CU YD (EV)	CU YD (CV)	CU YD (CV)
CSAH 35				
102+35 - 102+50	24	34	8	34
102+50 - 102+75	42	55	15	55
102+75 - 103+00	44	55	13	55
103+00 - 103+25	53	55	11	55
103+25 - 103+50	49	55	11	55
103+50 - 103+75	34	56	15	56
103+75 - 104+00	30	57	17	57
104+00 - 104+25	24	55	20	55
104+25 - 104+50	18	52	23	53
104+50 - 104+55	5	10	4	11
104+55 - 104+75	17	38	18	43
104+75 - 105+00	16	38	34	56
105+00 - 105+25	16	24	48	57
ROUNDABOUT	978	918	978	918
107+25 - 107+50	22	46	96	55
107+50 - 107+75	32	49	58	52
107+75 - 108+00	45	52	32	53
108+00 - 108+25	58	57	10	57
108+25 - 108+50	63	59	10	59
108+50 - 108+75	68	56	8	56
108+75 - 108+82	23	15	2	15
108+82 - 109+00	51	39	5	39
109+00 - 109+25	48	53	9	53
109+25 - 109+50	45	54	9	54
109+50 - 109+75	44	55	9	55
109+75 - 110+00	43	56	9	56
110+00 - 110+08	12	17	3	17
CSAH 35 SUBTOTAL	1904	2110	1475	2181
GARDENA AVE				
200+75 - 201+00	107	57	9	57
201+00 - 201+25	115	54	6	54
201+25 - 201+50	102	52	6	52
201+50 - 201+60	48	21	2	21
201+60 - 201+75	66	31	4	31
201+75 - 201+95	66	39	4	39
201+95 - 202+00	15	9	1	9
202+00 - 202+09	22	16	2	16
202+09 - 202+25	32	28	4	28
202+25 - 202+50	42	43	9	43
202+50 - 202+72	43	37	4	37
202+72 - 202+75	6	5	0	5
202+75 - 203+00	32	41	4	41
203+00 - 203+25	24	41	6	41
203+25 - 203+41	21	27	3	27
203+41 - 203+50	12	15	2	15
203+50 - 203+75	21	42	9	42
203+75 - 204+00	26	42	7	42
204+00 - 204+16	23	27	4	27
204+16 - 204+25	12	15	3	15
204+25 - 204+29	4	7	2	7
GARDENA AVE SUBTOTAL	839	649	91	649
PROJECT TOTAL	2743	2759	1566	2830

<u>.</u>	DATE	BY	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
					AJP Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gar
					AJF Checked By: AJP	PRINT NAME:			Improvements
					Approved By: AJP	DATE <u>11/28/2822</u> LICENSE # <u>44200</u>	V V J N	ANOKA COUNTY	Anoka County H
						V			

rdena Ave Intersection Highway Department

3.	TOPSOIL IS INCLUDED IN COMMON EMBANKMENT.	
4.	PLACING, HAULING AND DISPOSING OF EXCAVATED MATERIALS IS CONSIDERED INCIDENTAL.	
5.	ALL STOCKPILE AREAS SHALL BE APPROVED BY THE ENGINEER.	
	SOILS NOT USED ON THE PROJECT SHALL BECOME PR OF THE CONTRACTOR AND SHALL BE DISPOSED OF OU OF THE RIGHT OF WAY. NO DIRECT COMPENSATION W BE PAID FOR THE PREPARATION OF AN ACCEPTABLE PLAN OR FOR OFF-PROJECT DISPOSAL OF MATERIALS DISPOSAL SITES SHALL BE LEFT IN A WELL GRADED CONDITION WITH ALL SOLID WASTES AND BOULDERS ADEQUATELY COVERED.	TSIDE ILL DISPOSAL •
7.	UNLESS DIRECTED OTHERWISE BY THE PROJECT ENGI ANY MATERIAL THAT IS FOUND TO BE UNNECESSARY THE CONSTRUCTION OF THE ROADWAY EMBANKMENT AN DISPOSAL OF SAME BECOMES NECESSARY, ON OR OFF PROJECT, THE DISPOSAL AND ALL RELATED ITEMS W BE CONSIDERED INCIDENTAL.	FOR D THE
ΑN	OKA COUNTY, MINNESOTA	SHEET 8
	EARTHWORK TABULATION SP 002-635-012, SP 127-020-033	OF 90 SHEETS

- THE EXCAVATION COMMON QUANTITY INCLUDES TOPSOIL STRIPPING.
- 2. EXISTING PAVEMENT DEPTHS ARE ASSUMED TO BE APPROXIMATELY AS FOLLOWS: CSAH 35 MAINLINE 6" MIDDLE 24' OF CSAH 35 6" BIT OVER 8" CONCRETE GARDENA AVE 6" PAVEMENT REMOVAL HAS BEEN SUBTRACTED FROM THE COMMON EXCAVATION AND/OR SUBGRADE EXCAVATION QUANTITIES.
- NOTES:

## CONSTRUCTION AND SOIL NOTES

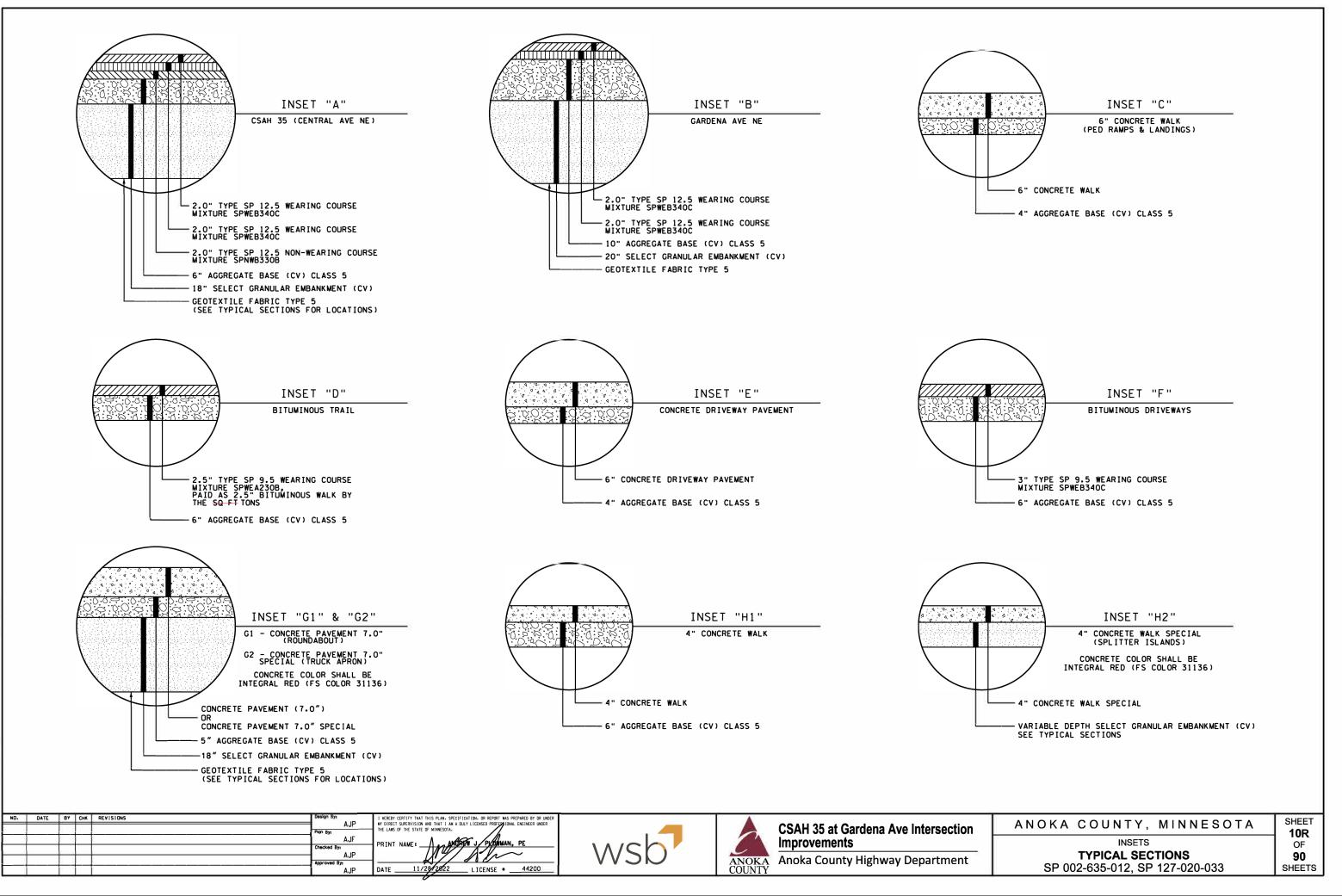
- 1. TOP OF THE GRADING GRADE IS DEFINED AS THE BOTTOM OF THE PROPOSED CLASS 5 AGGREGATE BASE.
- 2. TEST ROLLING OF THE SUBGRADE WILL BE REQUIRED AS SPECIFIED BY 2111.2 (INCIDENTAL).
- 3. WHERE CONNECTING TO IN-PLACE ROADWAYS AT THE TERMINI OF PROPOSED NEW CONSTRUCTION, CUT VERTICALLY TO THE BOTTOM OF THE IN-PLACE SURFACING, THEN AT A 1(V):20(H) TAPER TO THE BOTTOM OF THE RECOMMENDED SUBGRADE EXCAVATION.
- 4. 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 DETERMINATIONS AS TO THE TYPE AND LOCATION OF PRIVATE UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. CONTRACTOR WILL CALL GOPHER STATE ONE CALL A MINIMUM OF 48 HOURS PRIOR TO EXCAVATION.
- 5. THE CONSTRUCTION LIMITS AS SHOWN IN THE PLANS REPRESENT THE POINT OF INTERSECTION BETWEEN THE REQUIRED FILL OR CUT SLOPE AND THE EXISTING GROUND LINE AS DEPICTED ON THE CROSS SECTIONS. THE CONSTRUCTION LIMITS DO NOT INCLUDE AREAS REQUIRED FOR SLOPE ROUNDING.
- 6. 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).
- 7. OBTAIN COMPACTION OF THE GRADING AND AGGREGATE PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE "SPECIFIED DENSITY METHOD" REQUIREMENTS AS INDICATED IN 2211.
- 8. NO EXTRA PAYMENT WILL BE MADE FOR MOVING, PLACING, OR TEMPORARY STOCKPILING OF EXCAVATION AND/OR EMBANKMENT MATERIAL.
- 9. 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.
- 10. PROVIDE A UNIFORM TACK COAT AS DOCUMENTED IN THE MOST CURRENT SPEC. 2357 BITUMINOUS TACK COAT REQUIREMENTS
- 11. PIPE SEWERS CONNECTING MANHOLES AND CATCH BASINS SHALL BE IN ACCORDANCE WITH SPEC. 2503. BEDDING AND BACKFILL SHALL CONSIST OF UNIFORM COMMON EMBANKMENT MATCHING ADJACENT SOILS UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- 12. TEMPORARY EROSION CONTROL TEMPORARY EROSION CONTROL DEVICES AND THEIR SUGGESTED LOCATIONS 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.
- 13. 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.
- 14. EXCESS GRANULAR MATERIAL MUST BE DEEMED EXCESS BY THE ENGINEER BEFORE REMOVED FROM THE PROJECT.
- 15. NO OVER-EXCAVATION WILL BE ALLOWED ON THIS PROJECT.
- 16. OBTAIN COMPACTION ON ALL BITUMINOUS PORTIONS OF CONSTRUCTION IN ACCORDANCE WITH THE "MAXIMUM DENSITY METHOD" REQUIREMENTS.
- 17. BITUMINOUS MATERIAL MUST BE REMOVED FROM THE PROJECT AND CANNOT BE USED AS EMBANKMENT.

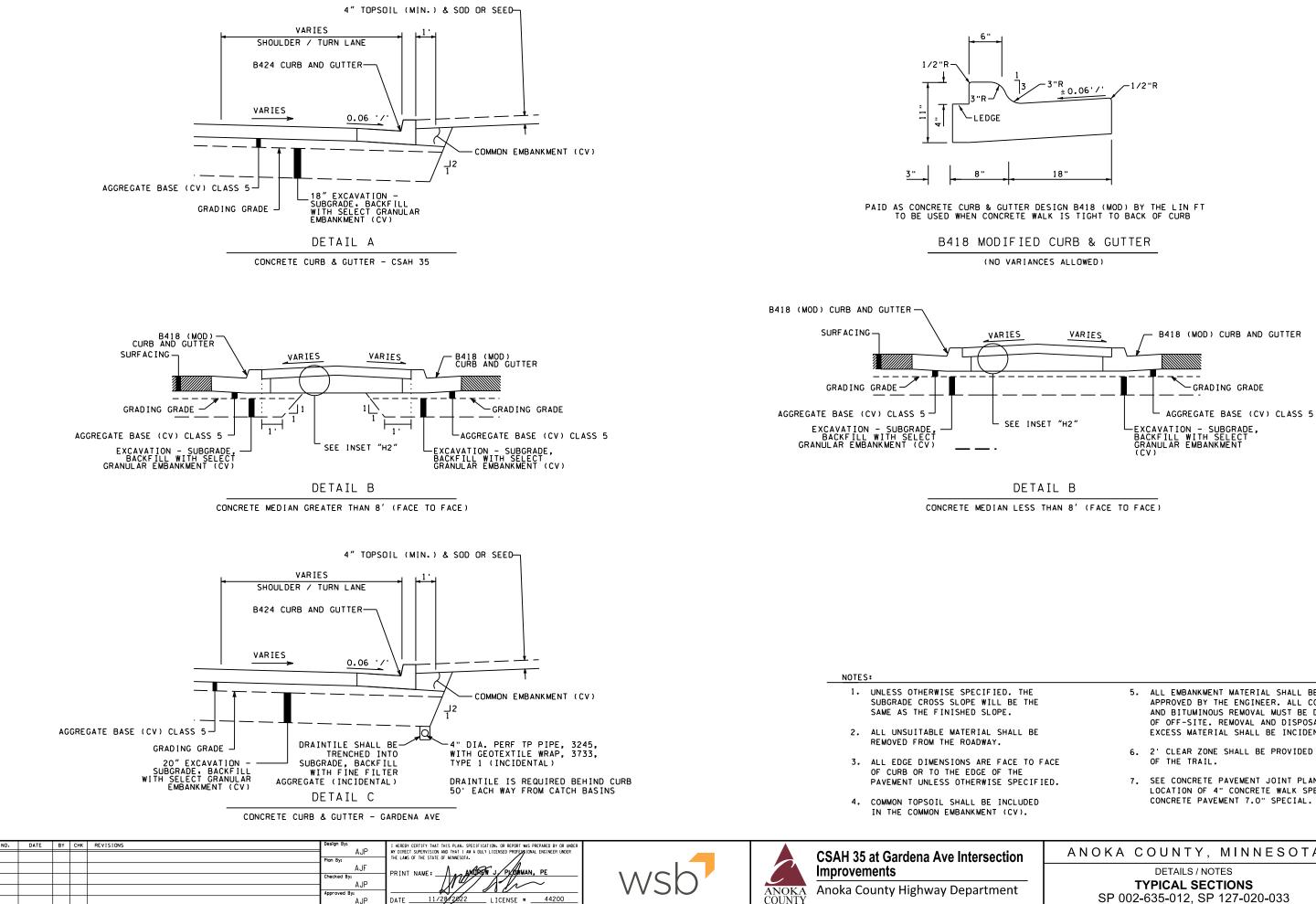
	THE FOLLOWING STANDA
	HIGHWAY ADMINISTRAT
	MNDOT
PLATE NO.	
1070N	SUPPLEMENTAL PAVEMENT REINF
1103L	TYPICAL DOWEL BAR ASSEMBLY
3000M	REINFORCED CONCRETE PIPE (6
3006H	GASKET JOINT FOR R.C. PIPE
3007F	SHEAR REINFORCEMENT FOR PRE
3133D	RIPRAP AT RCP OUTLETS
3145G	CONCRETE PIPE OR PRECAST BO
4006L	MANHOLE OR CATCH BASIN PRECA
4011E	PRECAST CONCRETE BASE
4020J	MANHOLE OR CATCH BASIN (FOR
4022A	MANHOLE OR CATCH BASIN COVER
4101D	RING CASTING FOR MANHOLE OR
4110F	COVER CASTING FOR MANHOLE (F
4140D	SPECIAL GRATE CASTINGS FOR (
4154B	CATCH BASIN GRATE CASTING -
4160D	CURB BOX CASTING FOR CATCH E
4180J	MANHOLE OR CATCH BASIN STEP
7020K	CONCRETE CURB (DESIGN B, DES
7038A	DETECTABLE WARNING SURFACE
7100H	CONCRETE CURB AND GUTTER (DE
7102K	CONCRETE CURB AND GUTTER (DE
7111J	INSTALLATION OF CATCH BASIN
7113A	CONCRETE APPROACH NOSE DETA
8000K	TEMPORARY CHANNELIZERS (3 SH
8106D	EQUIPMENT PAD B
8112I	PEDESTAL FOUNDATION (TRAFFI
8122F	PEDESTAL AND PEDESTAL BASE
8127E	LIGHT FOUNDATION - DESIGN E
8129A	SHIM AND WASHER (TRAFFIC COM
9350B	MAILBOX SUPPORT - SWING-AWA

	THE FOLLOWING STANDAR
	CITY OF FRI
PLATE NO.	
ERO-11	SLOPE TRACKING
GEN-2	MAILBOX INSTALLATION
GEN-2A	MAILBOX INSTALLATION
SAN-1	SANITARY SEWER MANHOLE
SER-5A	IRRIGATION SERVICE BY PRIVAT
STR-9	URBAN RESIDENTIAL DRIVEWAY
STR-19	STREET NAME BLADE SIGNS - PL
STR-22A	TYPICAL URBAN ROAD SECTION
STR-22B	TYPICAL URBAN ROAD SECTION E
WAT-4	GATE VALVE AND BOX
WAT-8	HYDRANT

NO.	DATE	ВҮ СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER				SHEET
				Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CSAH 35 at Gardena Ave Intersection	ANOKA COUNTY, MINNESOTA	
				AJF	PRINT NAME:ANDREW J PLONMAN, PE		Improvements		
				Checked By: AJP	All All	$\langle / / \rangle \leq ()$		SOILS AND CONSTRUCTION NOTES	90
				Approved By: AJP	DATE		ANOKA Anoka County Highway Department	SP 002-635-012, SP 127-020-033	SHEETS
				•	· · · · · · · · · · · · · · · · · · ·				-

ARD PLATES, APPROVED BY THE FEDERAL
ATION, SHALL APPLY ON THIS PROJECT
STANDARD PLATES
DESCRIPTION
FORCEMENT
(2 SHEETS)
6 SHEETS)
(2 SHEETS) ECAST DRAINAGE STRUCTURES
OX CULVERT TIES
CAST - DESIGNS G AND H
R USE WITH OR WITHOUT TRAFFIC LOADS) (2 SHEETS) ER (3 FT. X 2 FT. OPENING)
R CATCH BASIN
(FOR USE IN ALL TRAFFIC AREAS) * CASTING NO. 715 AND
CATCH BASIN (CONVEX AND CONCAVE) - CASTING NO. 720
- CASTING NO. 816
BASIN - CASTING NO. 823A AND 833A
Ρ
ESIGN V, DESIGN S, DESIGN DR AND DESIGN BR)(2 SHEETS) TRUNCATED DOMES
ESIGN V, DESIGN S, DESIGN DR AND DESIGN BR)(2 SHEETS)
DESIGN B AND DESIGN V)
DESIGN D AND DESIGN V/
N CASTINGS (CONCRETE CURB AND GUTTER)
AIL
SHEETS)
IC CONTROL SIGNALS)
(FOR TRAFFIC CONTROL SIGNALS SUPPORT) (2 SHEETS) E PRECAST/CAST-IN-PLACE (40 FT. POLE OR LESS) (2
ONTROL SIGNALS AND ROADWAY LIGHTING)
ΑΥ ΤΥΡΕ
RD PLATES SHALL APPLY ON THIS PROJECT
IDLEY STANDARD PLATES
DESCRIPTION
TE CONTRACTOR
APRON
UBLIC STREETS
EDGE DRAIN



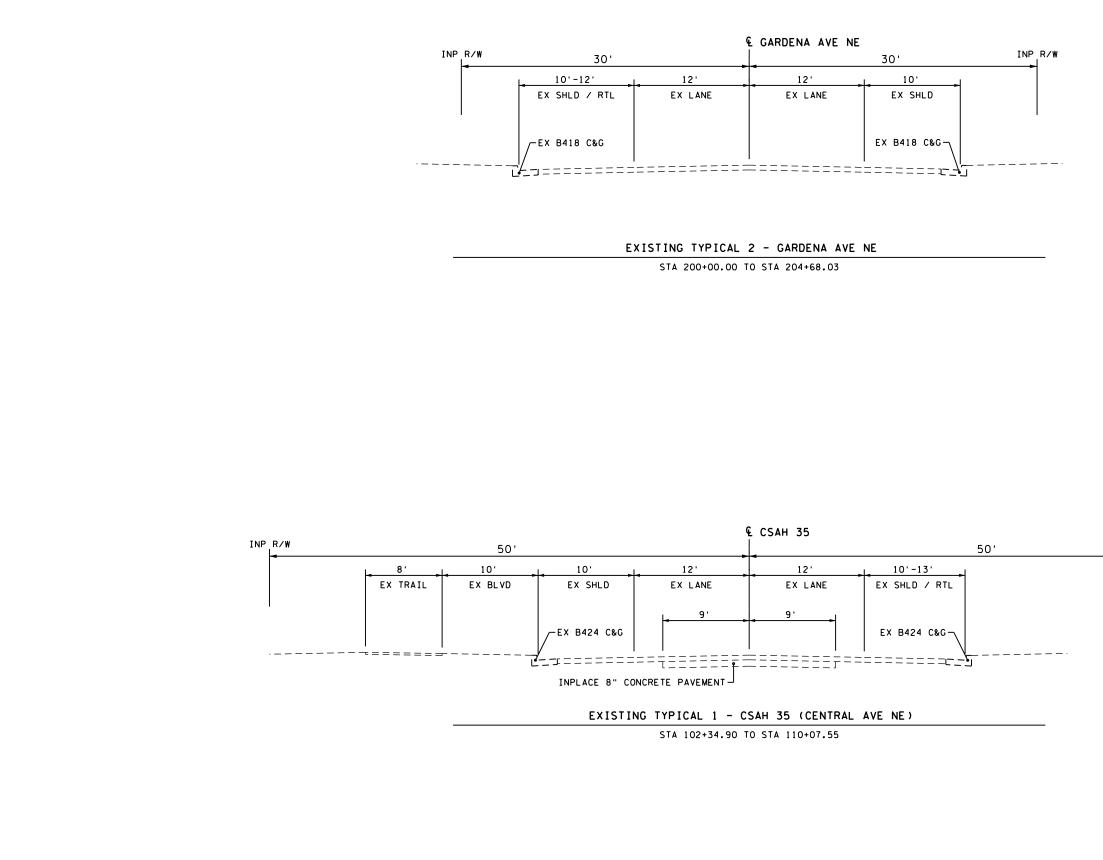


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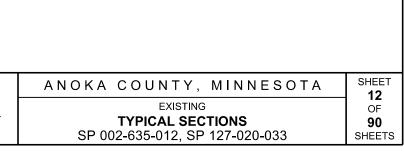
HE THE BE	APP AND OF	EMBANKMENT MATERIAL SHALL BE ROVED BY THE ENGINEER. ALL CONCRET BITUMINOUS REMOVAL MUST BE DISPOS OFF-SITE. REMOVAL AND DISPOSAL OF ESS MATERIAL SHALL BE INCIDENTAL.	-
TO F		CLEAR ZONE SHALL BE PROVIDED ON EA THE TRAIL.	CH SIDE
CIFI DED	LOC	CONCRETE PAVEMENT JOINT PLAN FOR ATION OF 4" CONCRETE WALK SPECIAL CRETE PAVEMENT 7.0" SPECIAL.	AND
	ANOKA COL	JNTY, MINNESOTA	SHEET <b>11</b>
-	TYPIC	TAILS / NOTES CAL SECTIONS -012, SP 127-020-033	OF <b>90</b> SHEETS

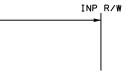


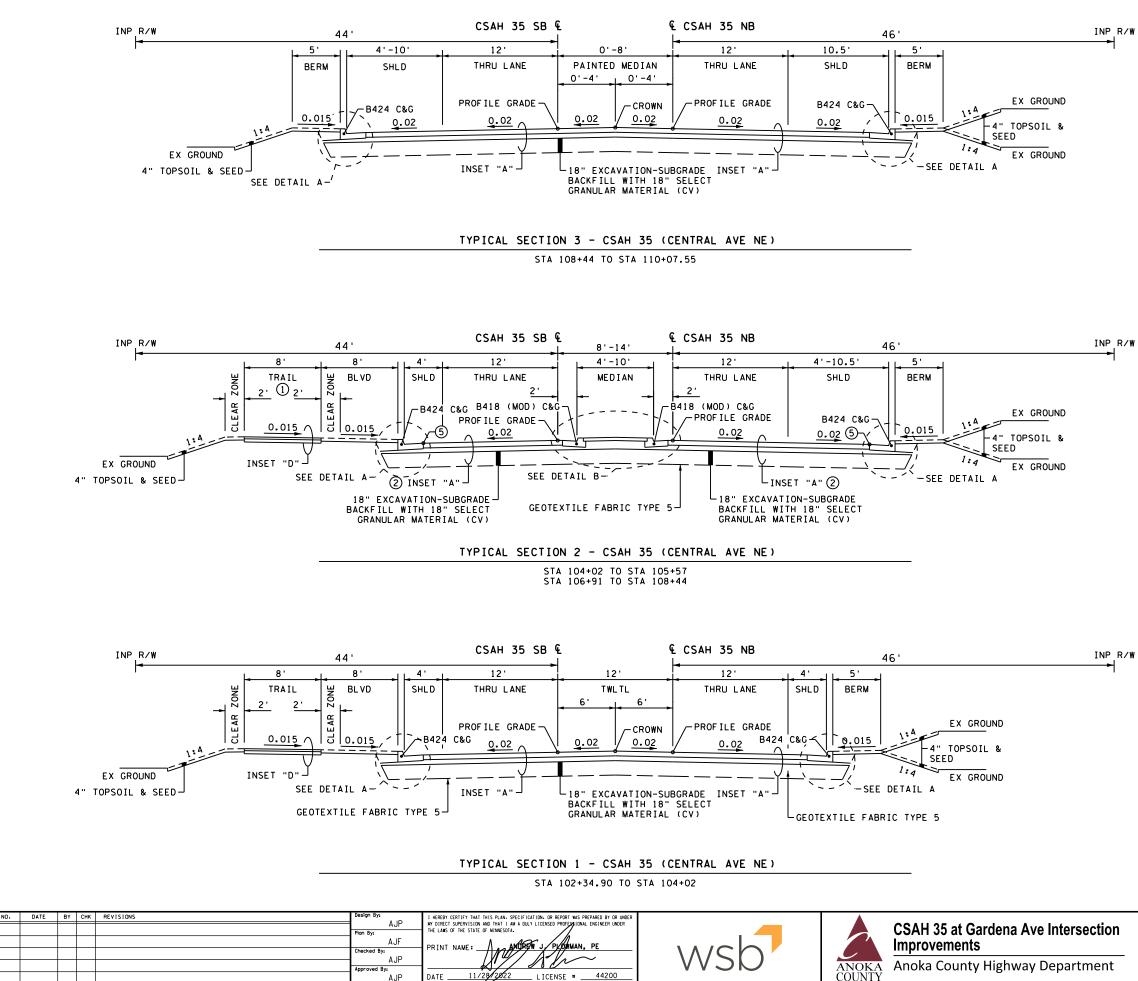
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NO.	DATE	BY	Снк	REVISIONS	Design By: A ID	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
					AJP Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					AJF	PRINT NAME:			Improvements
					Checked By:		$\sqrt{\sqrt{Sr}}$		
					Approved By:		VVJN	ANOKA	Anoka County Highway Department
					AJP	DATE		COUNTY	
						0			



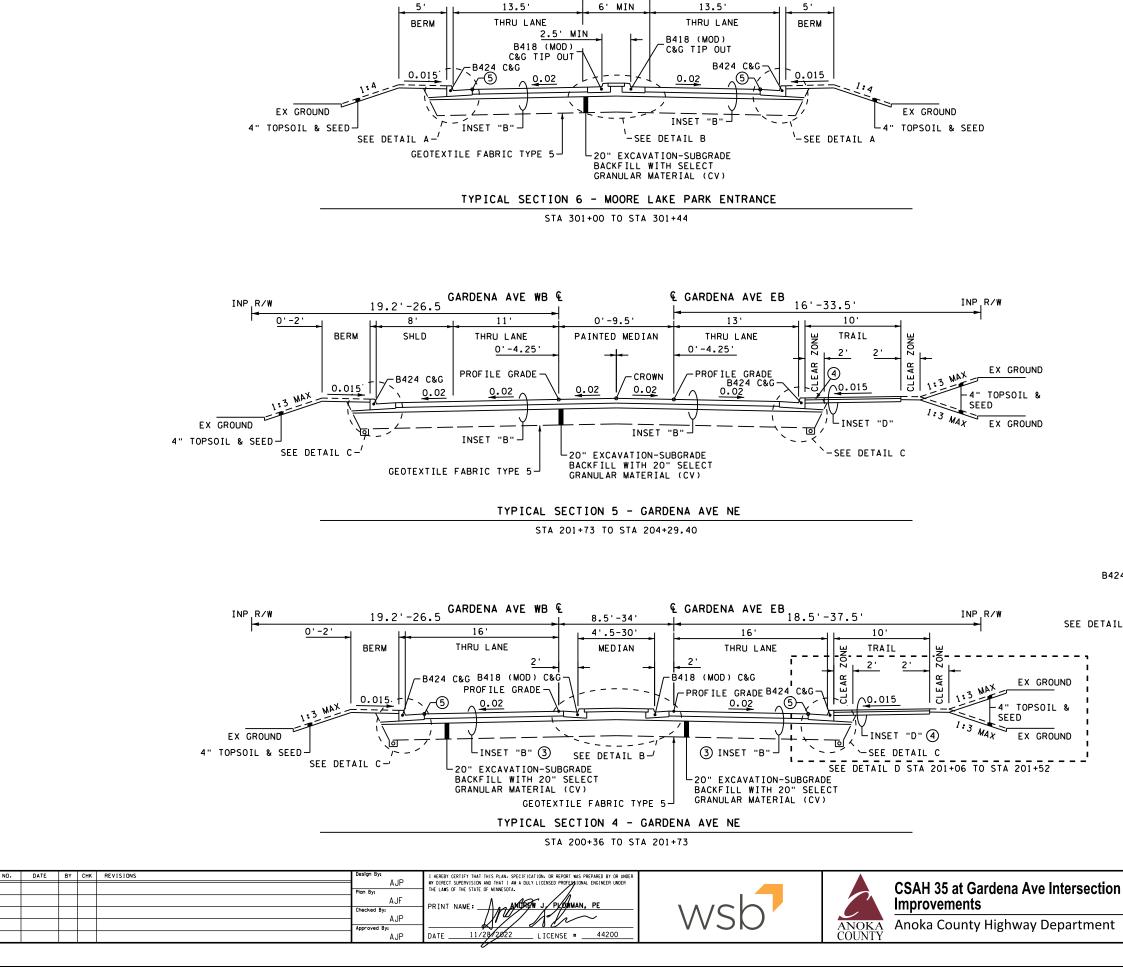




NOTES:

1	TRAIL CONSTRUCTION END STA 107+33.				
2	USE INSET "G1" FROM STA 105+15 TO STA 1	07+34.			
5	QUADRANT PROFILE GRADE, SEE ROUNDABOUT INTERSECTION DETAILS.				
	GENERAL NOTES:				
- ALL	SLOPES IN FOOT PER FOOT UNLESS OTHERWIS	E NOTED.			
<ul> <li>PREPARATION OF THE EXISTING SUBGRADE SHALL BE IN ACCORDANCE WITH MNDOT SPECIFICATIONS AND SHALL BE INCIDENTAL.</li> </ul>					
- SEE	SHEET 10 FOR INSETS AND SHEET 11 FOR	DETAILS.			
ΑΝΟΚΑ	COUNTY, MINNESOTA	SHEET 13			
SP 00	TYPICAL SECTIONS 02-635-012, SP 127-020-033	OF <b>90</b> SHEETS			

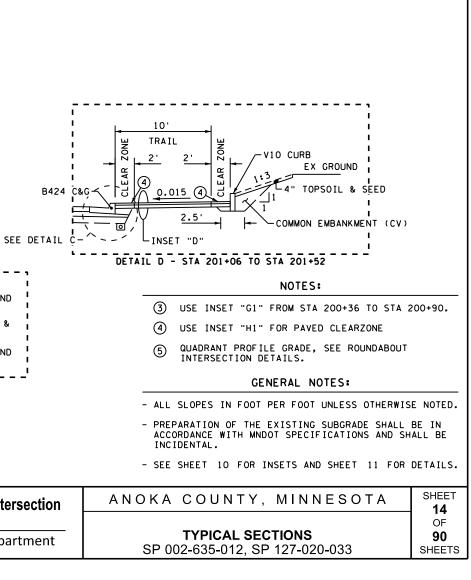


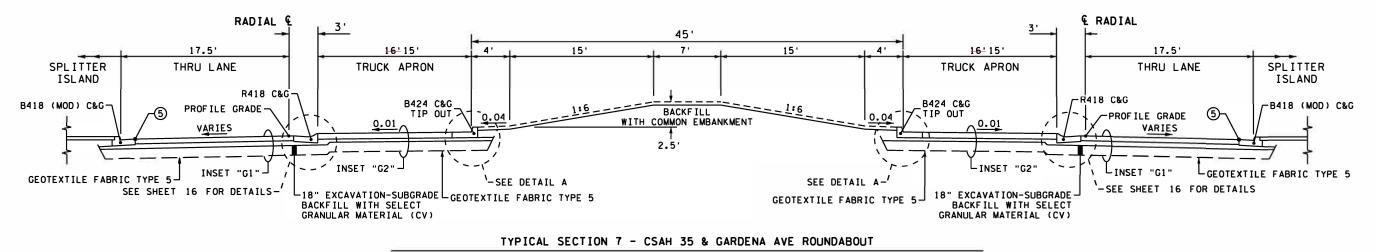


PARK ENTRANCE EB €

€ PARK ENTRANCE WB

B424 C&C





CSAH 35 NB STA 105+57 TO 106+91 GARDENA AVE EB STA 200+00.00 TO 200+36 RADIAL STA 10+00 TO 12+57.61

								2	
NO.	DATE	BY	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER			
					AJP Pian By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESTIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
		li li			AJF	PRINT NAME: A ANDREW J PLOMMAN, PE			Improvements
					Checked By:	Mart All al			
					AJP Approved By:		VVSN	ANOKA	Anoka County Highway Department
		(i – ))			AJP	DATE11/28/2022 LICENSE *44200		COUNTY	

NOTES:

(5)	QUADRANT PROFILE GRADE,	SEE ROUNDABOUT
Ŭ	INTERSECTION DETAILS.	

GENERAL NOTES:

- ALL SLOPES IN FOOT PER FOOT UNLESS OTHERWISE NOTED.

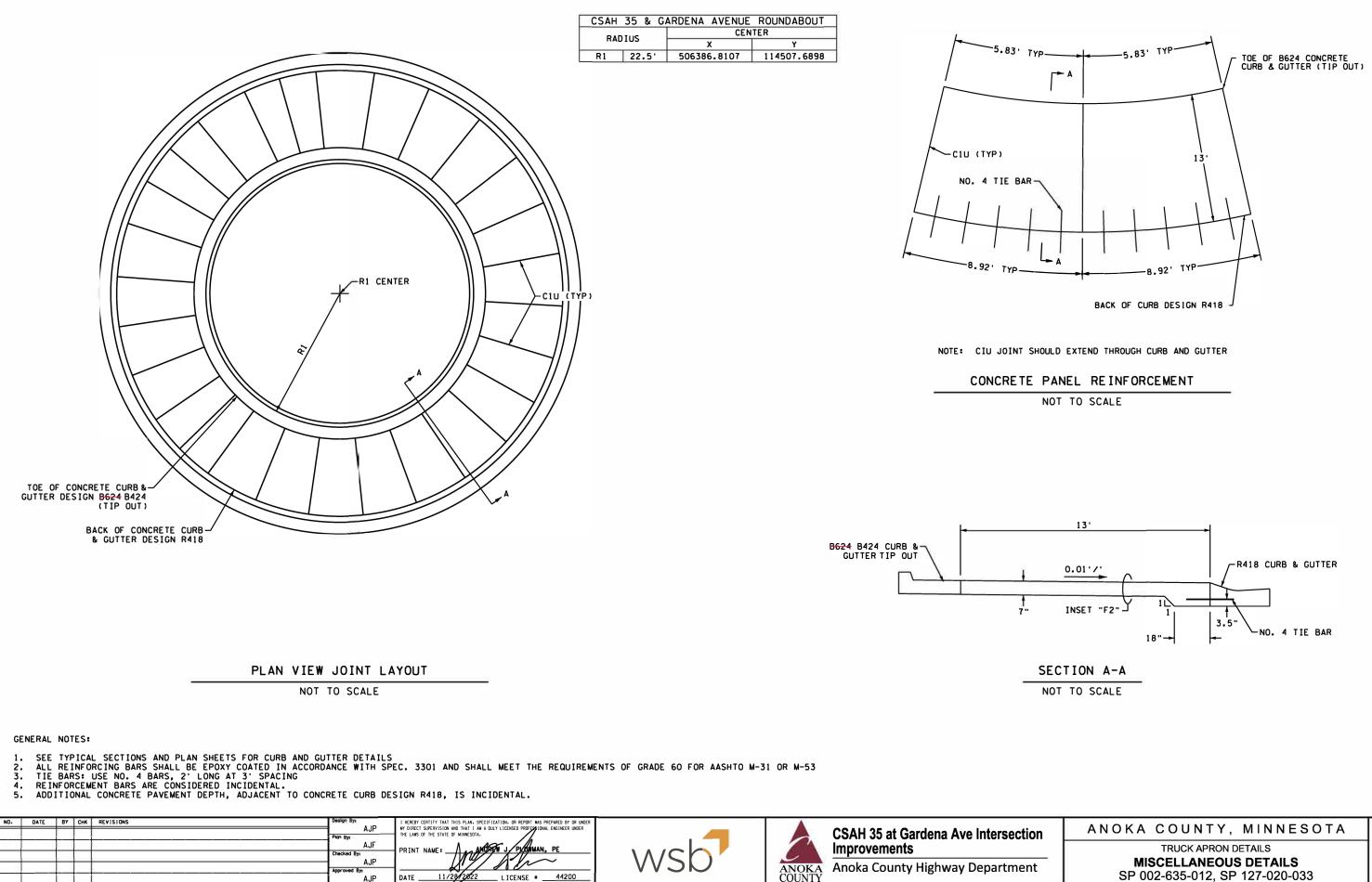
- PREPARATION OF THE EXISTING SUBGRADE SHALL BE IN ACCORDANCE WITH MNDOT SPECIFICATIONS AND SHALL BE INCIDENTAL.

- SEE SHEET 10 FOR INSETS AND SHEET 11 FOR DETAILS.

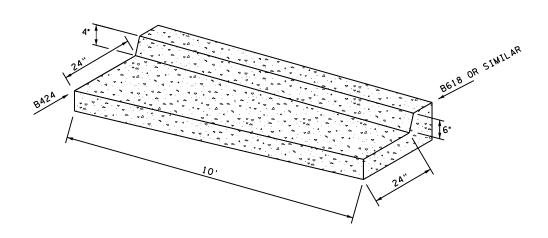
ANOKA COUNTY, MINNESOTA	SHEET 15R	
TYPICAL SECTIONS SP 002-635-012, SP 127-020-033	OF 90 SHEETS	

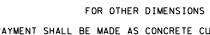
### CSAH 35 & GARDENA AVENUE ROUNDABOUT

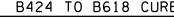
NOT TO SCALE

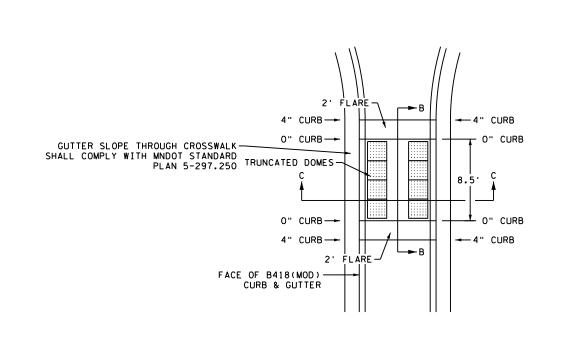


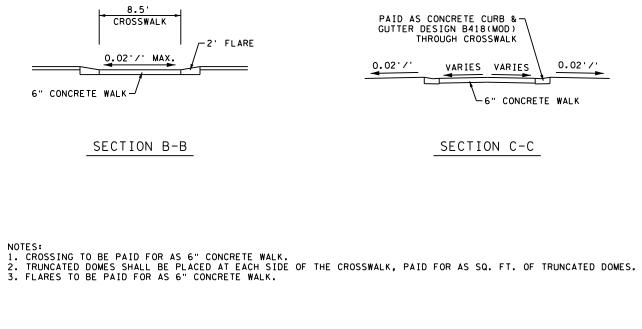
	ANOKA COUNTY, MINNESOTA	SHEET 16R
	TRUCK APRON DETAILS	OF
10	MISCELLANEOUS DETAILS	90
	SP 002-635-012, SP 127-020-033	SHEETS











DEPRESSED MEDIAN CURB AT CROSSWALK

NO SCALE

FOR OTHER DIMENSIONS SEE STANDARD PLATE NO. 7100 PAYMENT SHALL BE MADE AS CONCRETE CURB & GUTTER DESIGN B424 BY THE LINEAR FOOT

## B424 TO B618 CURB & GUTTER TRANSITION

NOT TO SCALE

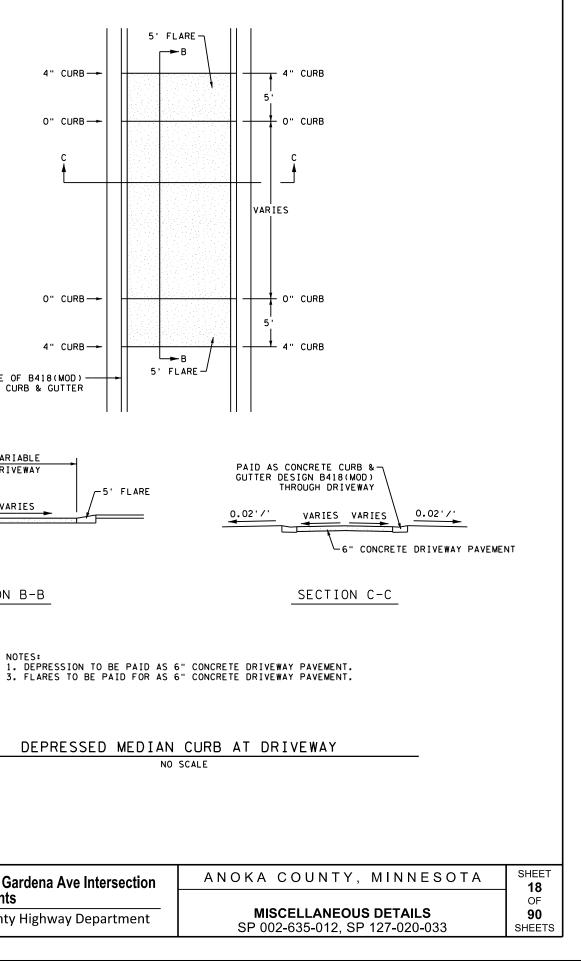


MISCELLANEOUS DETAILS SP 002-635-012, SP 127-020-033

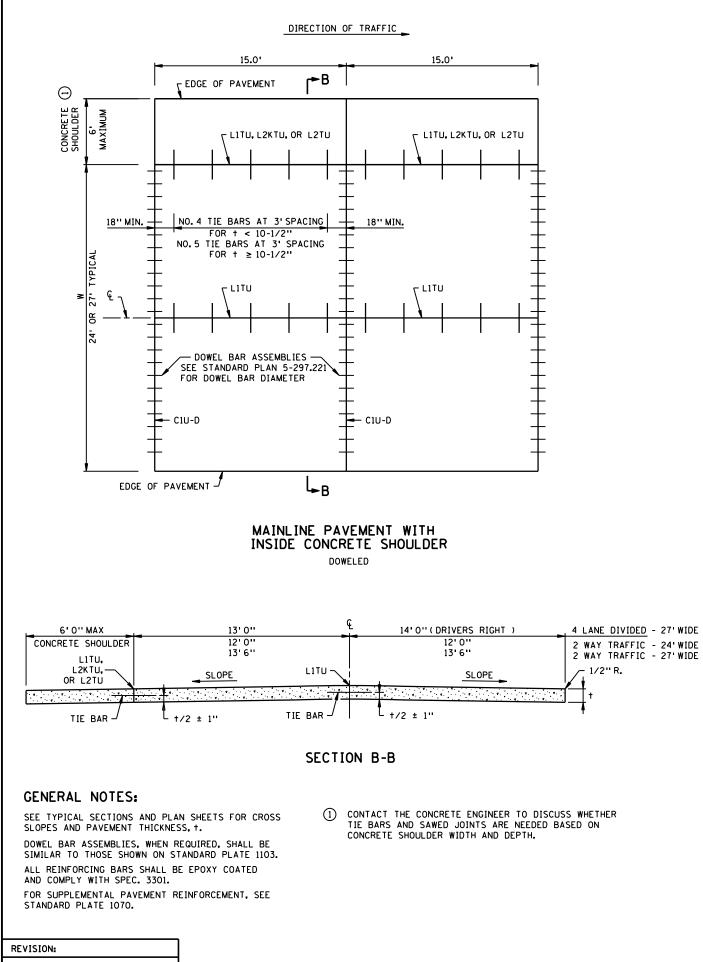


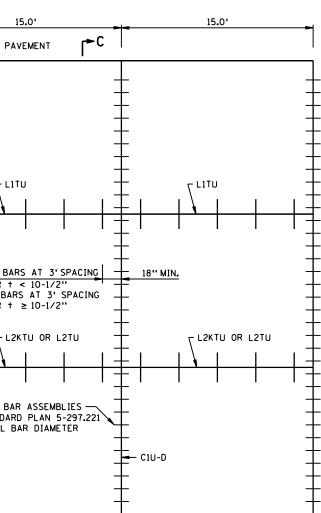
SAWCUT (INCIDENTAL) MATCH EXISTING DRIVEWAY SURFACING-VARIES 4" CURB 10% SLOPE MAX O" CURB→ ۲"٦ └B424 C&G -5' <u>− 5</u>' 6" CONCRETE DRIVEWAY PAVEMENT CONCRETE DRIVEWAY APRON (NO PEDESTRIAN FACILITIES) NOT TO SCALE O" CURB--SAWCUT (INCIDENTAL) 4" CURB → EXISTING DRIVEWAY MATCH EXISTING-FACE OF B418(MOD) DRIVEWAY SURFACING VARIES CURB & GUTTER 5 5105 5100E BITUMINOUS TRAIL BITUMINOUS 1 **€** ੰ⊡► TRAIL VARIABLE DRIVEWAY -5' FLARE 2' CONC. BLVD VARIES ۔ ر\_ ۲ 6" CONCRETE DRIVEWAY PAVEMENT-∕---5'MIN.---> /---5'MIN.----/ └B424 C&G 6" CONCRETE DRIVEWAY PAVEMENT SECTION B-B NOTES: 1 BITUMINOUS WALK WIDTH = 8', ENTIRE WIDTH 1.5% MAX CROSS SLOPE SLOPE SHALL BE GREATER THAN 2.0% AND LESS THAN 5.0% IN THE DIRECTION € SHOWN AND CROSS SLOPE SHALL NOT EXCEED 1.5%. BITUMINOUS TRAIL (2' BLVD) AT DRIVEWAY NO SCALE ND. DATE BY CHK REVISIONS I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDEF MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. AJP CSAH 35 at Gardena Ave Intersection lan By AJF ANDER J PLONMAN, PE Improvements PRINT NAME: WSC necked By: AJP ANOKA COUNTY Anoka County Highway Department proved By: AJP DATE \_\_\_ 11/28/2022 \_\_\_\_\_LICENSE # \_\_\_\_\_44200

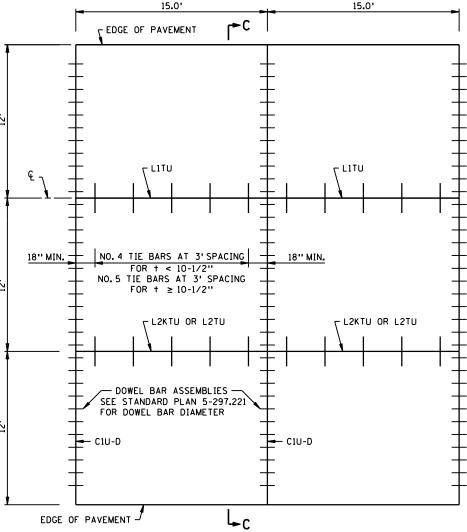
EXISTING DRIVEWAY

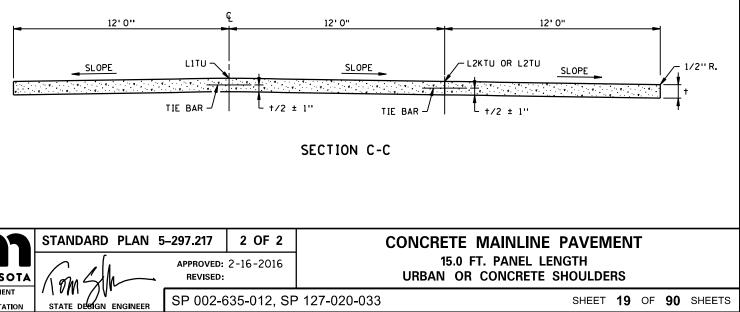






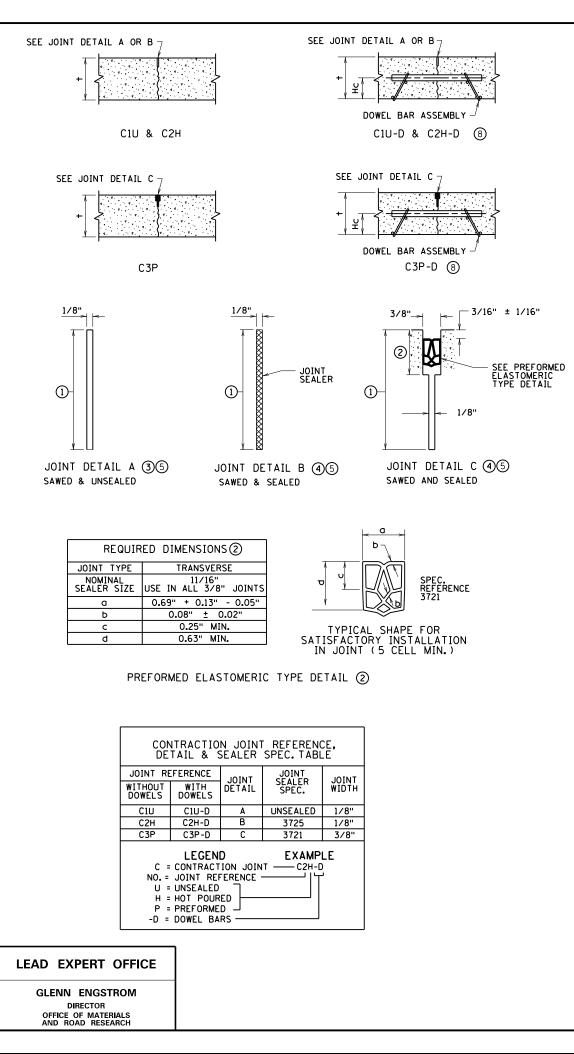


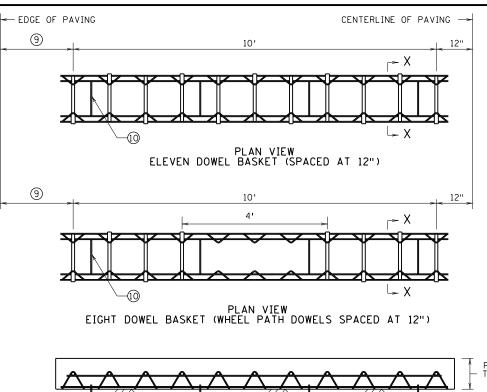


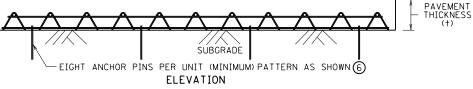


# MAINLINE PAVEMENT URBAN

DOWELED



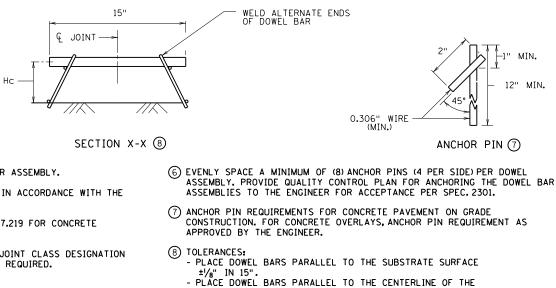




CONTRACTION JOINT DOWEL BAR ASSEMBLIES

DOWEL BAR TABLE				
† PAVEMENT THICKNESS (IN.)	DOWEL BAR DIAMETER (IN.)	Hc HEIGHT TO CENTER OF DOWEL BAR (IN.)		
7 - 7 <sup>1</sup> /2	1	3		
8 - 10	11/4	4		
≥10 <sup>1</sup> /2	11/2	5		

NOTES:



SEE STANDARD PLATE 1103 FOR DOWEL BAR ASSEMBLY.

FURNISH AND INSTALL ALL JOINT SEALER IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

SEE STANDARD PLANS 5-297.217 AND 5-297.219 FOR CONCRETE MAINLINE/RAMP PAVEMENT.

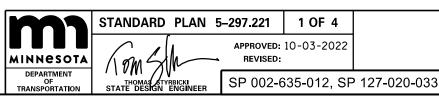
SEE PAVING LAYOUTS IN THE PLANS FOR JOINT CLASS DESIGNATION TO BE USED AND SPECIAL REINFORCEMENT REQUIRED.

(1) JOINT DEPTH AND TOLERANCE: +/3 ± 1/4".

(2) JOINT DEPTH  $\frac{1}{4}$ " MORE THAN THE PREFORMED SEALER WHEN COMPRESSED TO FIT THE JOINT DESIGN WIDTH. "a" DIMENSION APPLIES AT ANY POINT THROUGHOUT "c" DEPTH. SHARP CORNERS NOT PERMITTED. PROVIDE CORNERS WITH SUITABLE FILLET.

- 3 CLEAN JOINT FACES WITH WATER DURING THE SAW CUTTING OPERATION OR BY WATER BLASTING AFTER SAWING.
- (4) CLEAN AND DRY JOINT FACES BY SANDBLASTING AND AIR BLASTING, WHEN SEALING IS REQUIRED.

5 JOINT WIDTH TOLERANCE IS +1/16" TO -1/32".



PAVEMENT ±1/4" IN 15"
SAW CONTRACTION JOINTS PERPENDICULAR TO THE CENTERLINE OF THE PAVEMENT AND CENTERED ON THE DOWEL BAR ±3".
HEIGHT (hC) TO CENTER OF DOWEL BAR ± 1/2".

(+)

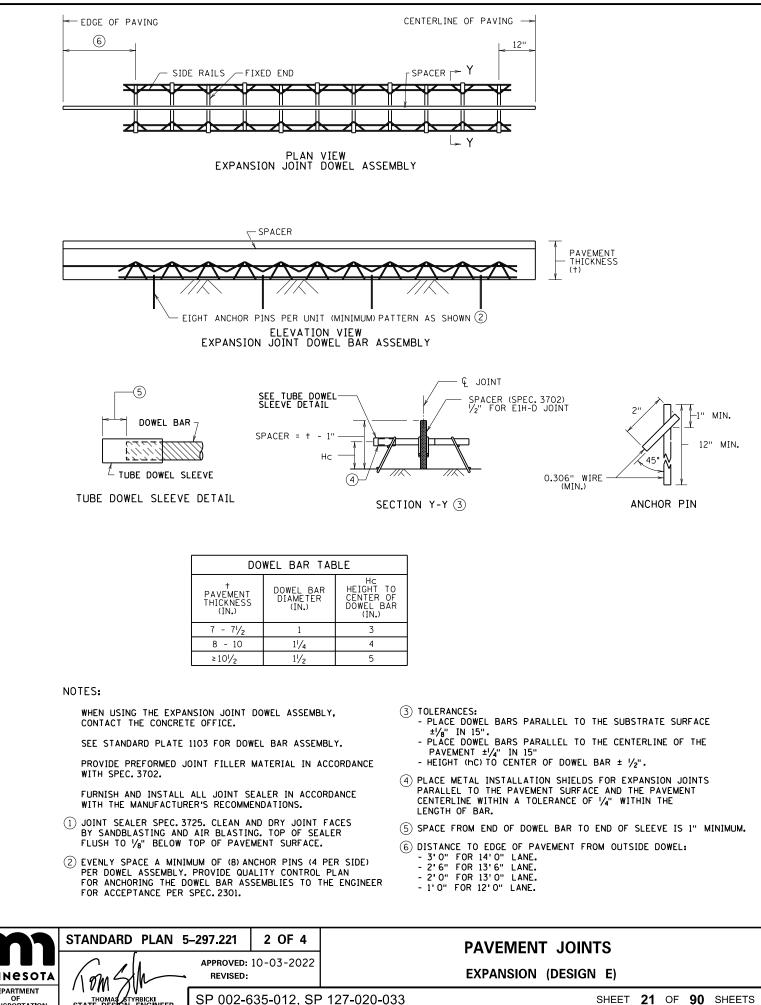
- ③ DISTANCE TO EDGE OF PAVEMENT FROM OUTSIDE DOWEL: 3'0" FOR 14'0" LANE. 2'6" FOR 13'6" LANE.

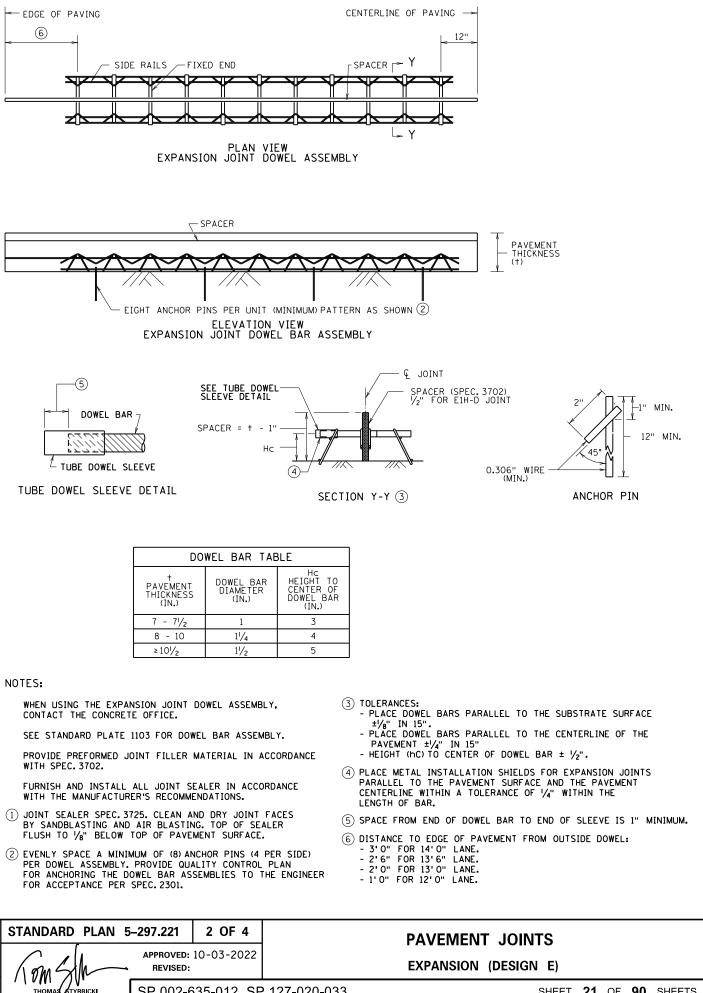
  - 2'0" FOR 13'0" LANE.
  - 1'0" FOR 12'0" LANE.
- () CONTRACTOR OPTION TO CUT AND BEND SPACER WIRES AFTER STAKING.

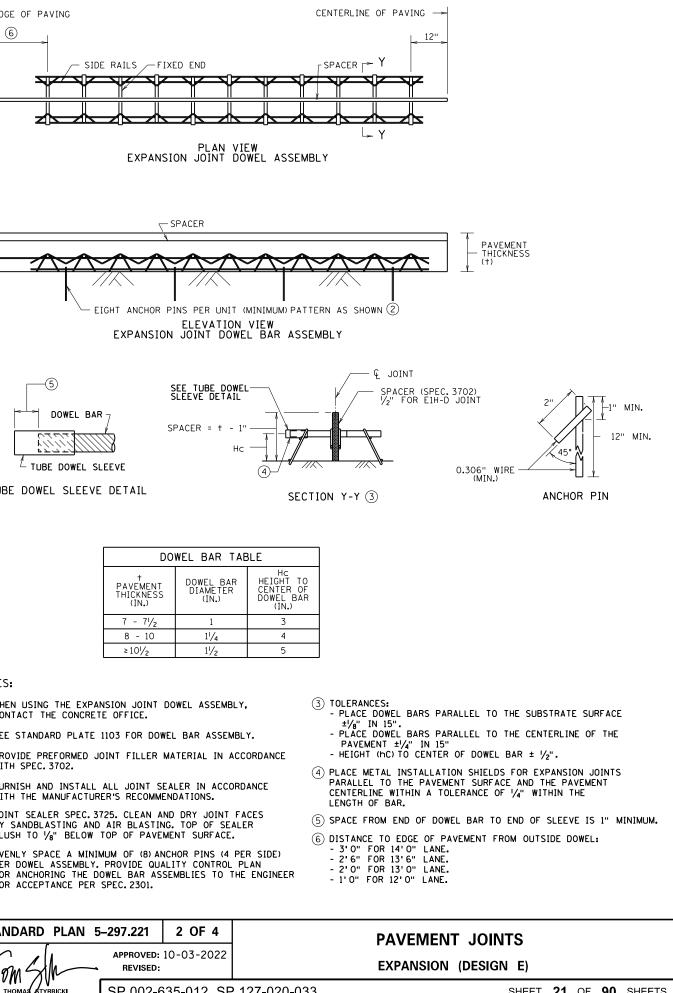
## **PAVEMENT JOINTS**

CONTRACTION (DESIGN C)

SHEET 20 OF 90 SHEETS



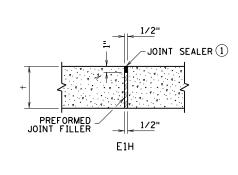


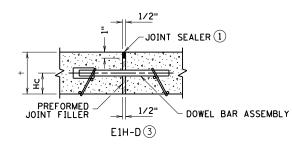


DO	WEL BAR TAE	BLE
† PAVEMENT THICKNESS (IN.)	DOWEL BAR DIAMETER (IN.)	HEIG CENT DOWE (
7 - 7 <sup>1</sup> /2	1	
8 - 10	11/4	
≥10 <sup>1</sup> /2	11/2	

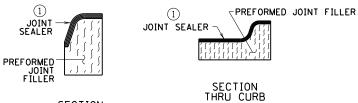
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	STANDARD PLAN 5	-297.221	2 OF 4	
	(magh	APPROVED: 10-03-2022 REVISED:		
DEPARTMENT OF TRANSPORTATION	THOMAS STYRBICKI STATE DESIGN ENGINEER	SP 002-6	335-012, SF	• 127-C



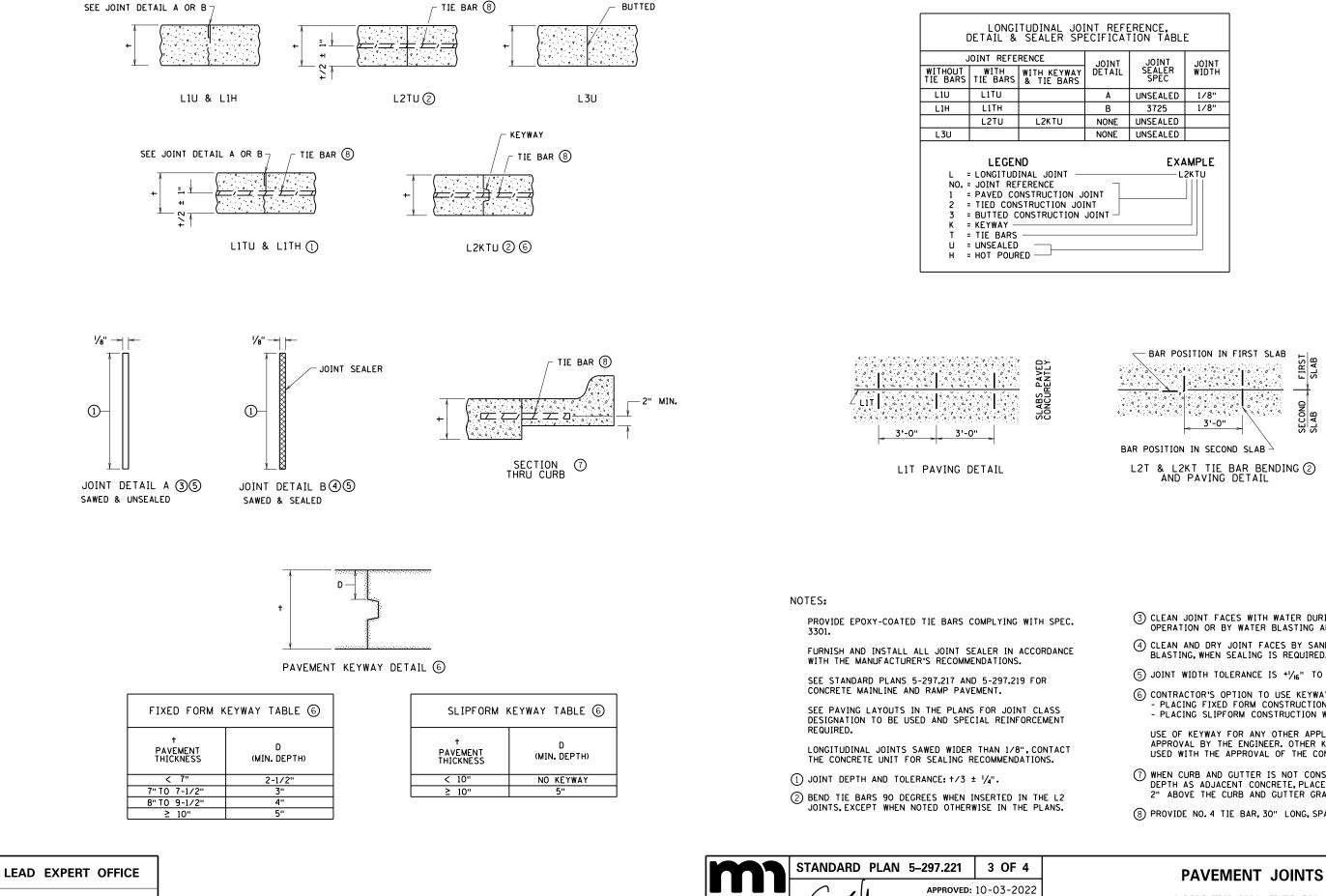


EXPANSION JOINT REFERENCE, DETAIL & SEALER SPEC.TABLE					
JOINT RE					
WITHOUT DOWELS	WITH DOWELS	PREFORMED JOINT FILLER SPEC.	JOINT SEALER SPEC.	JOINT WIDTH	
E1H	E1H-D	3702	3725	1/2"	
LEGEND EXAMPLE E = EXPANSION JOINT EIH-D NO.= JOINT REFERENCE H = HOT POURED -D = DOWEL BARS					



SECTION THRU CURB





MINNESOTA

DEPARTMENT

OF

THOMAS STYRBICKI STATE DESIGN ENGINEER

BUTTED

GLENN ENGSTROM DIRECTOR OFFICE OF MATERIALS AND ROAD RESEARCH

SP 002-635-012, SP 127-020-033

**REVISED:** 

3 CLEAN JOINT FACES WITH WATER DURING THE SAW CUTTING OPERATION OR BY WATER BLASTING AFTER SAWING.

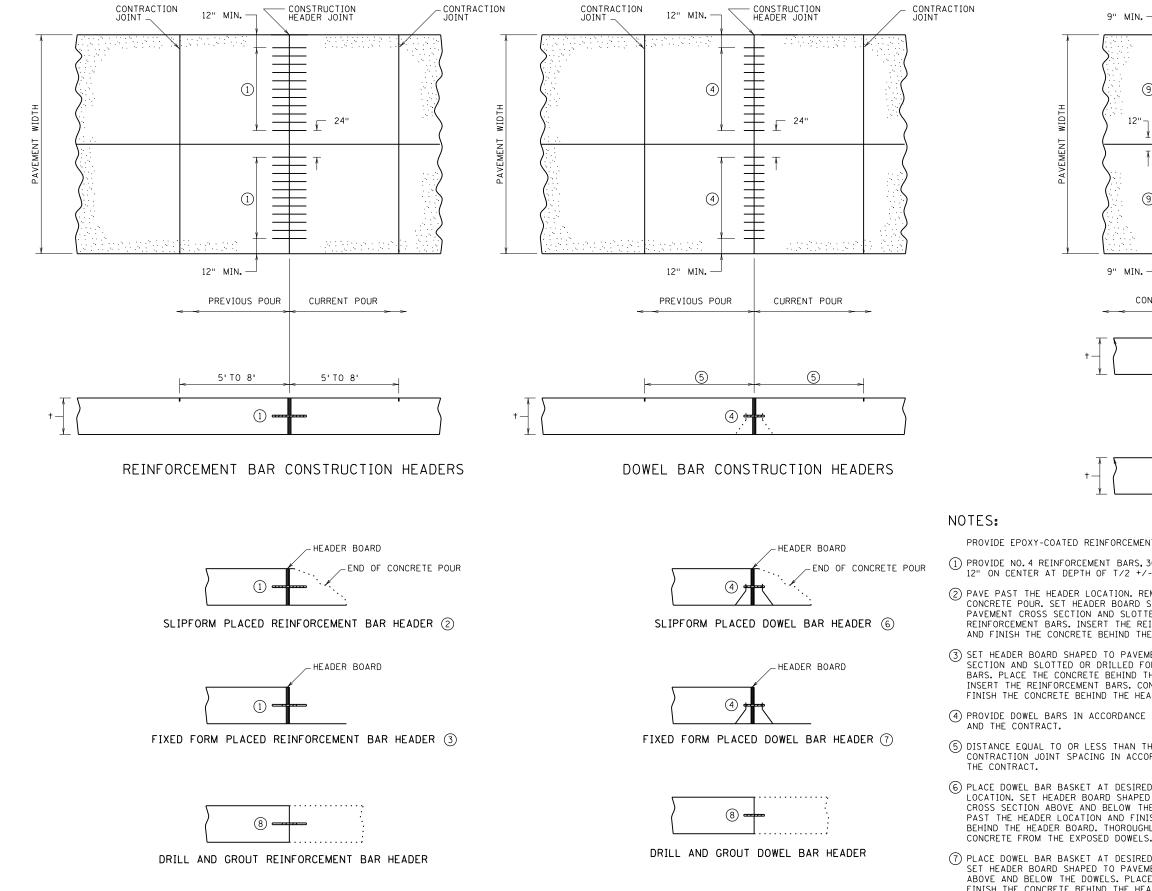
- 5 JOINT WIDTH TOLERANCE IS +1/16" TO -1/32".
- 6 CONTRACTOR'S OPTION TO USE KEYWAY WHEN: - PLACING FIXED FORM CONSTRUCTION. - PLACING SLIPFORM CONSTRUCTION WHEN + ≥ 10".

USE OF KEYWAY FOR ANY OTHER APPLICATION REQUIRES APPROVAL BY THE ENGINEER. OTHER KEYWAY SHAPES MAY BE USED WITH THE APPROVAL OF THE CONCRETE ENGINEER.

- (7) WHEN CURB AND GUTTER IS NOT CONSTRUCTED AT THE SAME DEPTH AS ADJACENT CONCRETE, PLACE TIE BAR MINIMUM OF 2" ABOVE THE CURB AND GUTTER GRADE.
- (8) PROVIDE NO. 4 TIE BAR, 30" LONG, SPACED AT 3' ON CENTER.

LONGITUDINAL (DESIGN L)

SHEET 22 OF 90 SHEETS



GLENN ENGSTROM

DIRECTOR

OFFICE OF MATERIALS AND ROAD RESEARCH

MIN. —	
9	
<b>↑</b>	
9	
MIN 5' 0''	<del>~</del> 3'' - 5"
CONCRETE PAVEMENT	FLEXIBLE PAVEMENT
(9)	
3' MIN.	  18" MIN.
PERMANE	NT HEADER 🔟
	<u>UIIIII</u>

TERMINAL HEADER (1)

PROVIDE EPOXY-COATED REINFORCEMENT BARS IN ACCORDANCE WITH SPEC. 3301.

1 PROVIDE NO. 4 REINFORCEMENT BARS, 30" LONG, SPREAD 12" ON CENTER AT DEPTH OF T/2 +/- 1".

WIDTH

PAVEMENT

 $\textcircled{\sc 2}$  pave past the header location. Remove end of concrete pour. Set header board shaped to PAVEMENT CROSS SECTION AND SLOTTED OR DRILLED FOR REINFORCEMENT BARS. INSERT THE REINFORCEMENT BARS AND FINISH THE CONCRETE BEHIND THE BOARD.

3 SET HEADER BOARD SHAPED TO PAVEMENT CROSS SECTION AND SLOTTED OR DRILLED FOR REINFORCEMENT BARS. PLACE THE CONCRETE BEHIND THE BOARD AND INSERT THE REINFORCEMENT BARS. CONSOLIDATE AND FINISH THE CONCRETE BEHIND THE HEADER BOARD.

(4) PROVIDE DOWEL BARS IN ACCORDANCE WITH SPEC. 3302

(5) DISTANCE EQUAL TO OR LESS THAN THE DESIGNED CONTRACTION JOINT SPACING IN ACCORDANCE WITH

6 PLACE DOWEL BAR BASKET AT DESIRED HEADER LOCATION. SET HEADER BOARD SHAPED TO PAVEMENT CROSS SECTION ABOVE AND BELOW THE DOWELS. PAVE PAST THE HEADER LOCATION AND FINISH CONCRETE BEHIND THE HEADER BOARD. THOROUGHLY REMOVE ALL

(7) PLACE DOWEL BAR BASKET AT DESIRED HEADER LOCATION. SET HEADER BOARD SHAPED TO PAVEMENT CROSS SECTION ABOVE AND BELOW THE DOWELS. PLACE, CONSOLIDATE AND FINISH THE CONCRETE BEHIND THE HEADER BOARD.

- (8) DRILL AND GROUT 18" LONG DOWEL OR REINFORCEMENT BARS SPACED AT 12" ON CENTER AT A DEPTH OF T/2  $\pm$  1". DRILL THE HOLE 1/8" GREATER THAN THE NOMINAL OUTSIDE DIAMETER OF THE BAR BEING PLACED TO A DEPTH OF 9". INJECT A MODOT-APPROVED EPOXY OR NON-SHRINK GROUT IN THE BACK OF THE DRILL HOLE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
  - FOR DOWEL BAR HEADERS, USE DOWEL BARS HAVING A DIAMETER IN ACCORDANCE WITH SPEC.3302 AND THE CONTRACT. - FOR REINFORCEMENT BAR HEADERS, USE NO. 4 REINFORCEMENT BARS.
- (9) PROVIDE NO. 7 REINFORCEMENT BARS, 5'LONG, SPACED 18" ON CENTER AT DEPTH OF +/2 ± 1".
- 10 USE PERMANENT HEADER WHEN LONG SECTIONS OF CONCRETE (400' OR GREATER) ABUT BITUMINOUS. CONTACT THE CONCRETE UNIT WHEN FUTURE CONCRETE IS BEING CONSTRUCTED ADJACENT TO AN EXISTING PERMANENT HEADER.
- (1) USE TERMINAL HEADER WHEN SHORT SECTIONS OF CONCRETE (LESS THAN 400') ABUT BITUMINOUS (ON SIDE STREETS, FOR EXAMPLE).

## **PAVEMENT JOINTS**

CONSTRUCTION AND TERMINAL HEADERS

SP 002-635-012, SP 127-020-033

4 OF 4

APPROVED: 10-03-2022

**REVISED:** 

STANDARD PLAN 5-297.221

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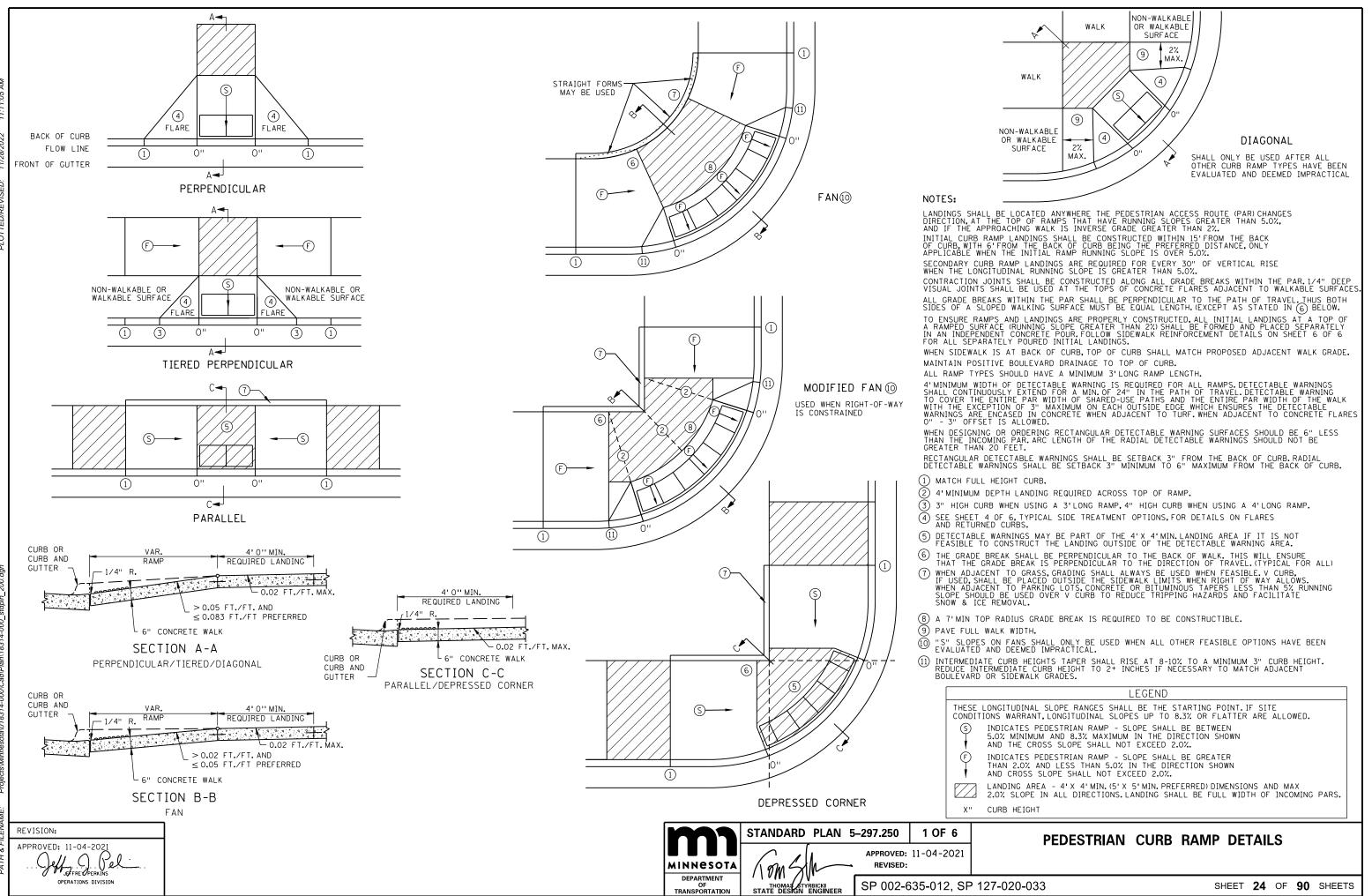
THOMAS STYRBICKI STATE DESIGN ENGINEER

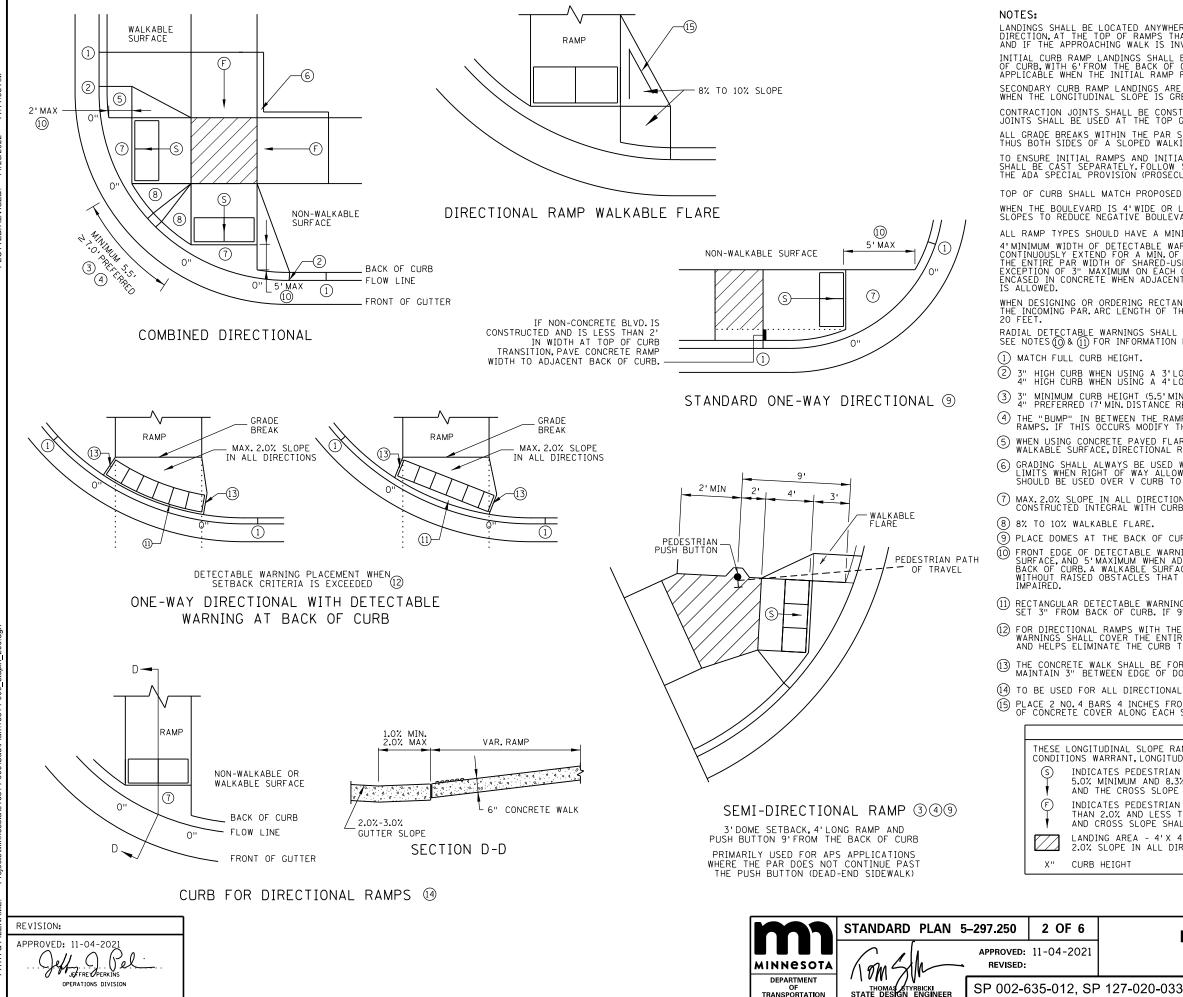
MINNESOTA

DEPARTMENT

OF

SHEET 23 OF 90 SHEETS





TOP OF CURB SHALL MATCH PROPOSED ADJACENT WALK GRADE. WHEN THE BOULEVARD IS 4'WIDE OR LESS, THE TOP OF CURB TAPER SHALL MATCH THE RAMP SLOPES TO REDUCE NEGATIVE BOULEVARD SLOPES FROM THE TOP BACK OF CURB TO THE PAR.

ALL RAMP TYPES SHOULD HAVE A MINIMUM 3'LONG RAMP LENGTH. 4'MINIMUM WIDTH OF DETECTABLE WARNING IS REQUIRED FOR ALL RAMPS.DETECTABLE WARNINGS SHALL CONTINUOUSLY EXTEND FOR A MIN.OF 24" IN THE PATH OF TRAVEL.DETECTABLE WARNING TO COVER THE ENTIRE PAR WIDTH OF SHARED-USE PATHS AND THE ENTIRE PAR WIDTH OF THE WALK WITH THE EXCEPTION OF 3" MAXIMUM ON EACH OUTSIDE EDGE WHICH ENSURES THE DETECTABLE WARNINGS ARE ENCASED IN CONCRETE WHEN ADJACENT TO TURF.WHEN ADJACENT TO CONCRETE FLARES O" - 3" OFFSET IS ALLOWED.

(1) MATCH FULL CURB HEIGHT.

(2) 3" HIGH CURB WHEN USING A 3'LONG RAMP 4" HIGH CURB WHEN USING A 4'LONG RAMP.

(4) THE "BUMP" IN BETWEEN THE RAMPS SHOULD NOT BE IN THE PATH OF TRAVEL FOR COMBINED DIRECTIONAL RAMPS. IF THIS OCCURS MODIFY THE RAMP LOCATION OR SWITCH RAMP TO A FAN/DEPRESSED CORNER. (5) WHEN USING CONCRETE PAVED FLARES ON THE OUTSIDE OF DIRECTIONAL RAMPS, AND ADJACENT TO A WALKABLE SURFACE, DIRECTIONAL RAMP FLARES SHALL BE USED. SEE THE DETAIL ON THIS SHEET.

GRADING SHALL ALWAYS BE USED WHEN FEASIBLE. V CURB, IF USED, SHALL BE PLACED OUTSIDE THE SIDEWALK LIMITS WHEN RIGHT OF WAY ALLOWS. WHEN ADJACENT TO PARKING LOTS, CONCRETE OR BITUMINOUS TAPERS SHOULD BE USED OVER V CURB TO REDUCE TRIPPING HAZARDS AND FACILITATE SNOW & ICE REMOVAL.

(7) MAX. 2.0% SLOPE IN ALL DIRECTIONS IN FRONT OF GRADE BREAK AND DRAIN TO FLOW LINE. SHALL BE CONSTRUCTED INTEGRAL WITH CURB AND GUTTER.

(8) 8% TO 10% WALKABLE FLARE.

 $(\mathfrak{9})$  place domes at the back of curb when allowable setback criteria is exceeded.

(1) FRONT EDGE OF DETECTABLE WARNING SHALL BE SET BACK 2' MAXIMUM WHEN ADJACENT TO WALKABLE SURFACE, AND 5' MAXIMUM WHEN ADJACENT TO NON-WALKABLE SURFACE WITH ONE CORNER SET 3" FROM BACK OF CURB.A WALKABLE SURFACE IS DEFINED AS A PAVED SURFACE ADJACENT TO A CURB RAMP WITHOUT RAISED OBSTACLES THAT COULD MISTAKENLY BE TRAVERSED BY A USER WHO IS VISUALLY IMPAIRED.

(1) RECTANGULAR DETECTABLE WARNINGS MAY BE SETBACK UP TO 9" FROM THE BACK OF CURB WITH CORNERS SET 3" FROM BACK OF CURB. IF 9" SETBACK IS EXCEEDED USE RADIAL DETECTABLE WARNINGS.

(13) THE CONCRETE WALK SHALL BE FORMED AND CONSTRUCTED PERPENDICULAR TO THE BACK OF CURB. MAINTAIN 3" BETWEEN EDGE OF DOMES AND EDGE OF CONCRETE.

(14) TO BE USED FOR ALL DIRECTIONAL RAMPS, EXCEPT WHERE DOMES ARE PLACED ALONG THE BACK OF CURB. (15) PLACE 2 NO. 4 BARS 4 INCHES FROM SIDE OF FORMS WITH A MINIMUM 2 INCHES OF CONCRETE COVER ALONG EACH SIDE OF FLARE (INCIDENTAL).

	ONGITUDINAL S
S	INDICATES PED 5.0% MINIMUM AND THE CROS
(F) M	INDICATES PED THAN 2.0% AND AND CROSS SL
	LANDING AREA 2.0% SLOPE IN
Χ''	CURB HEIGHT

LANDINGS SHALL BE LOCATED ANYWHERE THE PEDESTRIAN ACCESS ROUTE (PAR) CHANGES DIRECTION, AT THE TOP OF RAMPS THAT HAVE RUNNING SLOPES GREATER THAN 5.0%, AND IF THE APPROACHING WALK IS INVERSE GRADE.

INITIAL CURB RAMP LANDINGS SHALL BE CONSTRUCTED WITHIN 15'FROM THE BACK OF CURB, WITH 6'FROM THE BACK OF CURB BEING THE PREFERRED DISTANCE, ONLY APPLICABLE WHEN THE INITIAL RAMP RUNNING SLOPE IS OVER 5.0%. SECONDARY CURB RAMP LANDINGS ARE REQUIRED FOR EVERY 30" OF VERTICAL RISE WHEN THE LONGITUDINAL SLOPE IS GREATER THAN 5.0%.

CONTRACTION JOINTS SHALL BE CONSTRUCTED ALONG ALL GRADE BREAKS WITHIN THE PAR.1/4" DEEP VISUAL JOINTS SHALL BE USED AT THE TOP GRADE BREAK OF CONCRETE FLARES ADJACENT TO WALKABLE SURFACES. ALL GRADE BREAKS WITHIN THE PAR SHALL BE PERPENDICULAR TO THE PATH OF TRAVEL. THUS BOTH SIDES OF A SLOPED WALKING SURFACE MUST BE EQUAL LENGTH.

TO ENSURE INITIAL RAMPS AND INITIAL LANDINGS ARE PROPERLY CONSTRUCTED, LANDINGS SHALL BE CAST SEPARATELY.FOLLOW SIDEWALK REINFORCEMENT DETAILS ON SHEET 6 AND THE ADA SPECIAL PROVISION (PROSECUTION OF WORK).

WHEN DESIGNING OR ORDERING RECTANGULAR DETECTABLE WARNING SURFACES SHOULD BE 6" LESS THAN THE INCOMING PAR. ARC LENGTH OF THE RADIAL DETECTABLE WARNINGS SHOULD NOT BE GREATER THAN

RADIAL DETECTABLE WARNINGS SHALL BE SETBACK 3" MINIMUM TO 6" MAXIMUM FROM THE BACK OF CURB. SEE NOTES 0 & 1 FOR INFORMATION REGARDING RECTANGULAR DETECTABLE WARNING PLACEMENT.

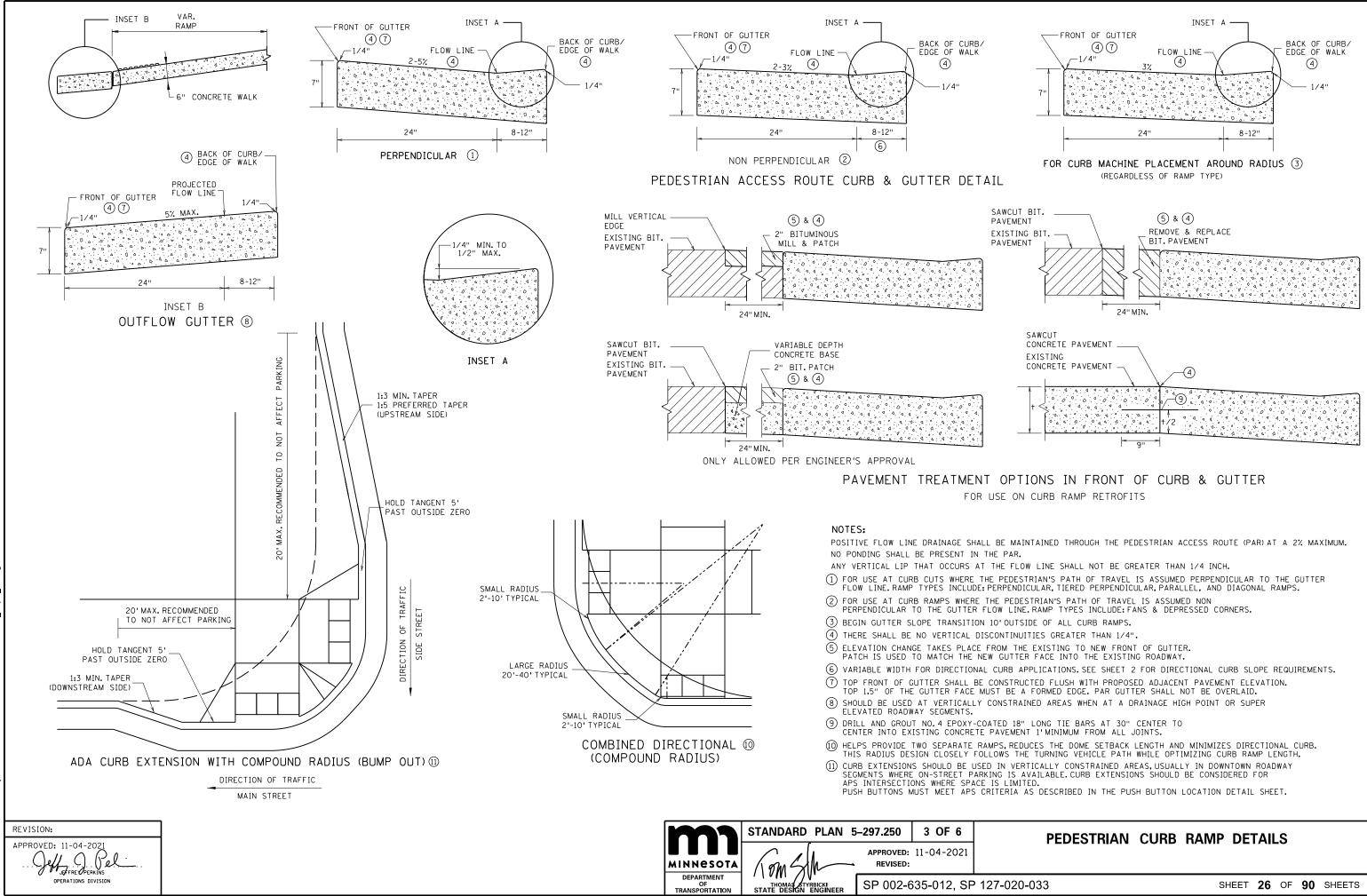
(3) 3" MINIMUM CURB HEIGHT (5.5' MIN. DISTANCE REQUIRED BETWEEN DOMES) 4" PREFERRED (7' MIN. DISTANCE REQUIRED BETWEEN DOMES).

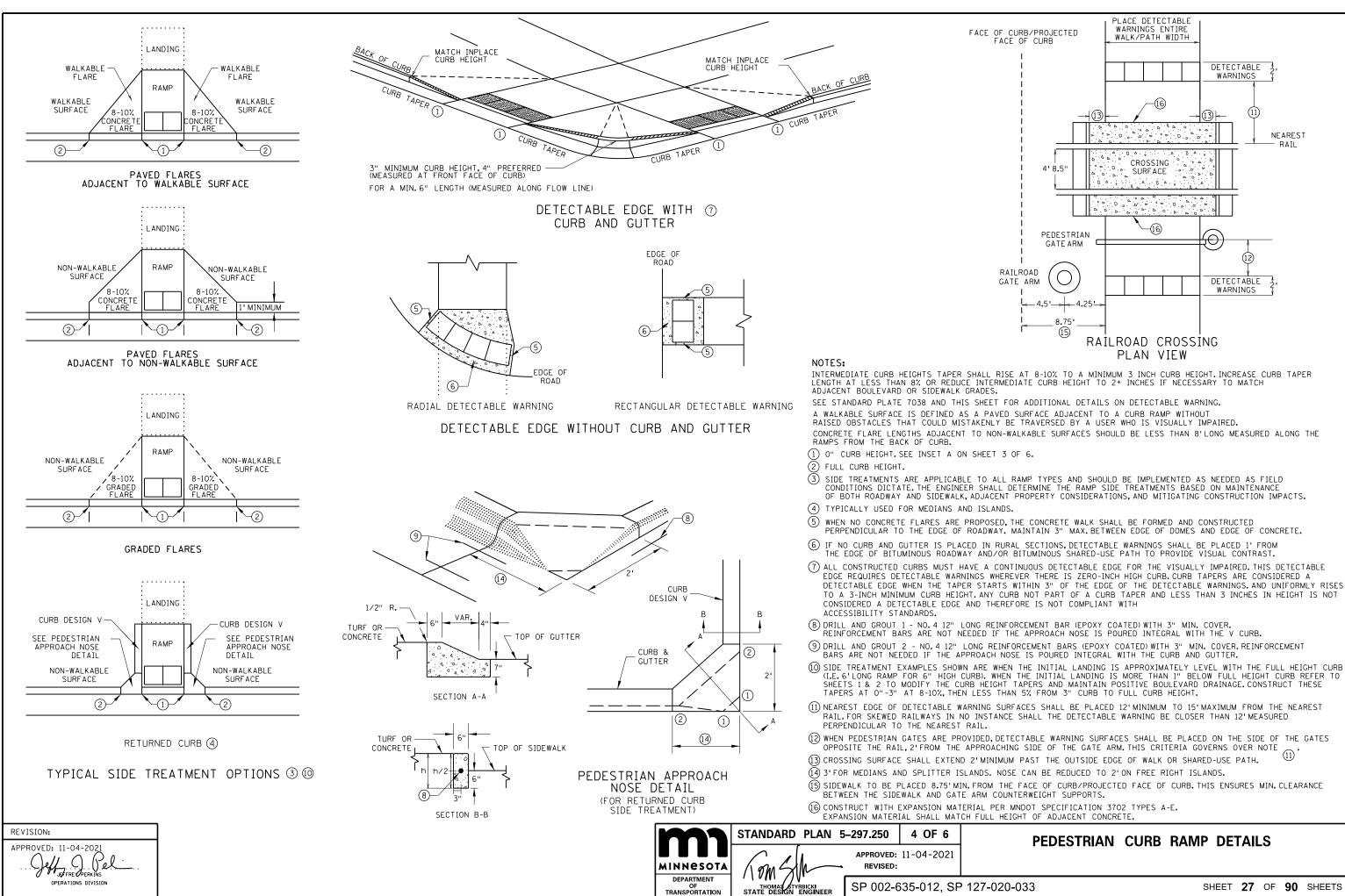
(12) FOR DIRECTIONAL RAMPS WITH THE DETECTABLE WARNINGS PLACED AT THE BACK OF CURB, THE DETECTABLE WARNINGS SHALL COVER THE ENTIRE WIDTH OF THE WALK/PATH. THIS ENSURES A DETECTABLE EDGE AND HELPS ELIMINATE THE CURB TAPER OBSTRUCTING THE PATH OF PEDESTRIAN TRAVEL.

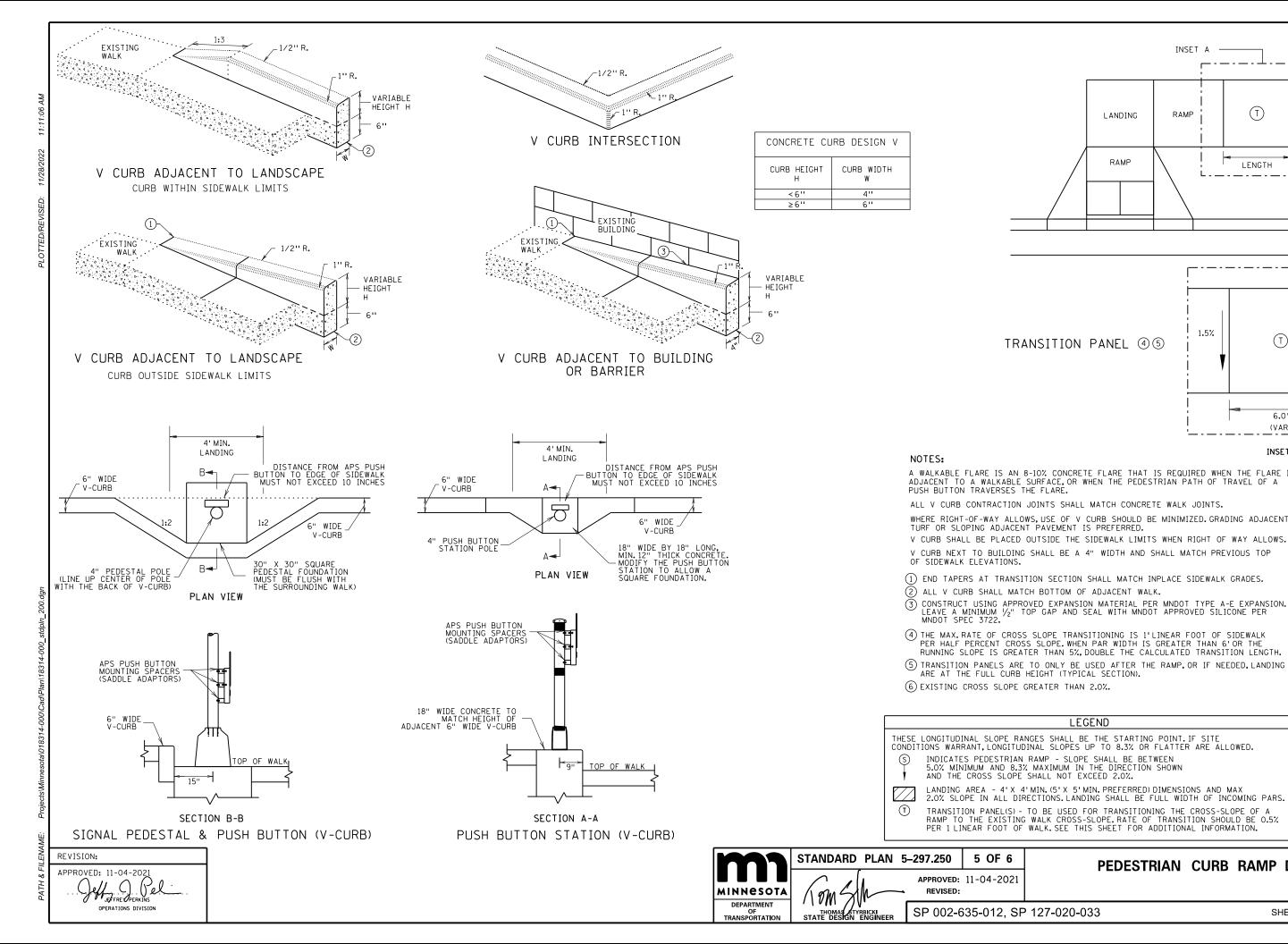
### LEGEND

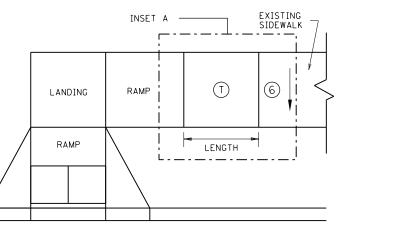
SLOPE RANGES SHALL BE THE STARTING POINT.IF SITE LONGITUDINAL SLOPES UP TO 8.3% OR FLATTER ARE ALLOWED. DESTRIAN RAMP - SLOPE SHALL BE BETWEEN AND 8.3% MAXIMUM IN THE DIRECTION SHOWN SS SLOPE SHALL NOT EXCEED 2.0%. DESTRIAN RAMP - SLOPE SHALL BE GREATER ND LESS THAN 5.0% IN THE DIRECTION SHOWN LOPE SHALL NOT EXCEED 2.0%. 4'X 4'MIN. (5'X 5'MIN. PREFERRED) DIMENSIONS AND MAX N ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS.

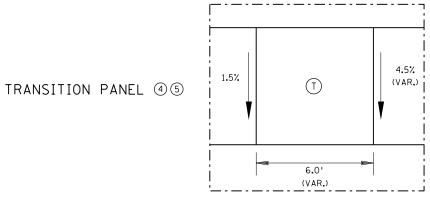
## PEDESTRIAN CURB RAMP DETAILS











INSET A

A WALKABLE FLARE IS AN 8-10% CONCRETE FLARE THAT IS REQUIRED WHEN THE FLARE IS ADJACENT TO A WALKABLE SURFACE, OR WHEN THE PEDESTRIAN PATH OF TRAVEL OF A

WHERE RIGHT-OF-WAY ALLOWS, USE OF V CURB SHOULD BE MINIMIZED. GRADING ADJACENT TURF OR SLOPING ADJACENT PAVEMENT IS PREFERRED.

V CURB NEXT TO BUILDING SHALL BE A 4" WIDTH AND SHALL MATCH PREVIOUS TOP

(1) END TAPERS AT TRANSITION SECTION SHALL MATCH INPLACE SIDEWALK GRADES.

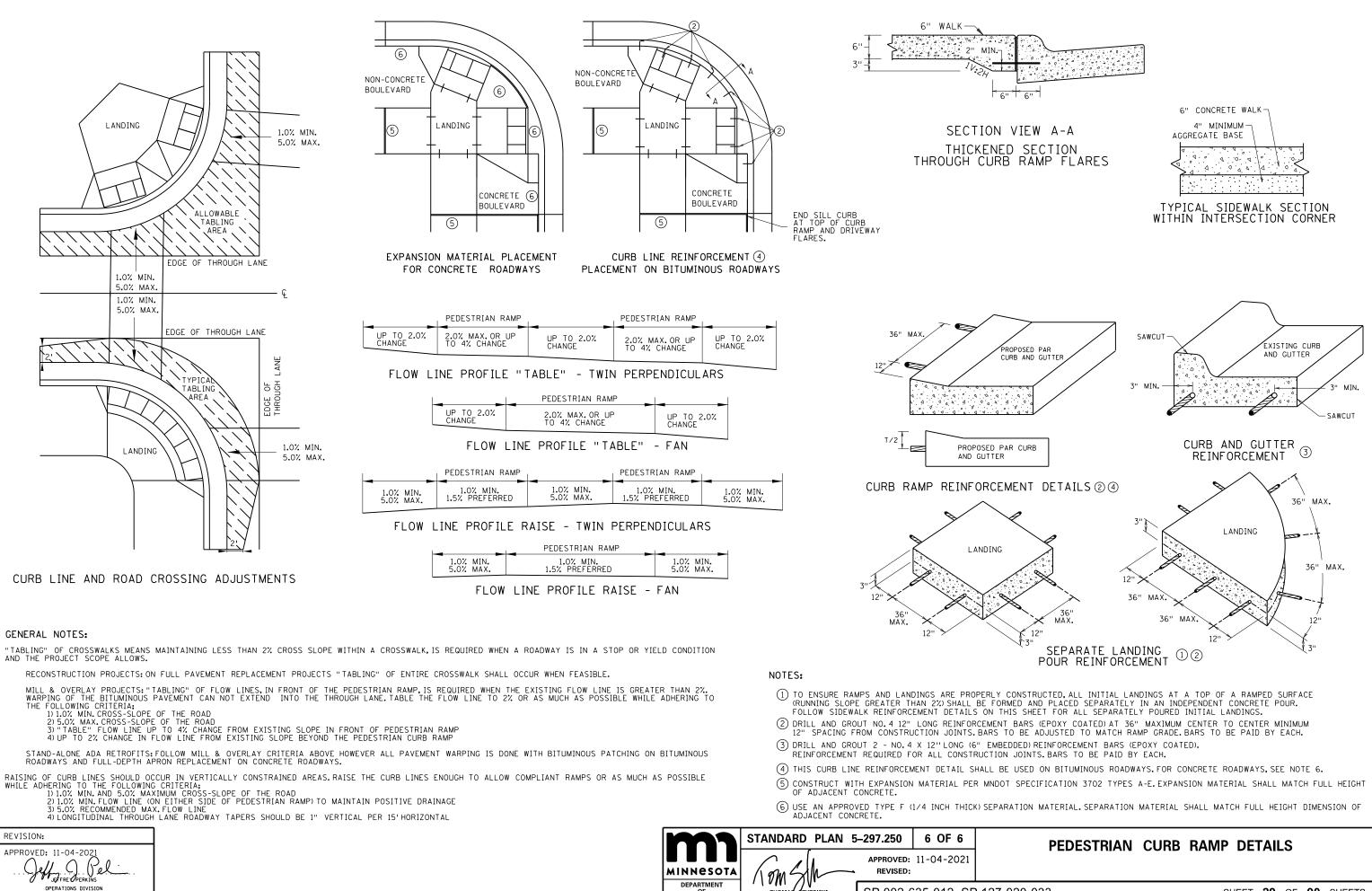
(4) THE MAX. RATE OF CROSS SLOPE TRANSITIONING IS 1'LINEAR FOOT OF SIDEWALK PER HALF PERCENT CROSS SLOPE. WHEN PAR WIDTH IS GREATER THAN 6'OR THE RUNNING SLOPE IS GREATER THAN 5%, DOUBLE THE CALCULATED TRANSITION LENGTH.  $\stackrel{(5)}{=}$  transition panels are to only be used after the ramp, or if needed, landing are at the full curb height (typical section).

### LEGEND

LANDING AREA - 4'X 4'MIN. (5'X 5'MIN. PREFERRED) DIMENSIONS AND MAX 2.0% SLOPE IN ALL DIRECTIONS. LANDING SHALL BE FULL WIDTH OF INCOMING PARS. TRANSITION PANEL(S) - TO BE USED FOR TRANSITIONING THE CROSS-SLOPE OF A RAMP TO THE EXISTING WALK CROSS-SLOPE.RATE OF TRANSITION SHOULD BE 0.5% PER 1 LINEAR FOOT OF WALK. SEE THIS SHEET FOR ADDITIONAL INFORMATION.

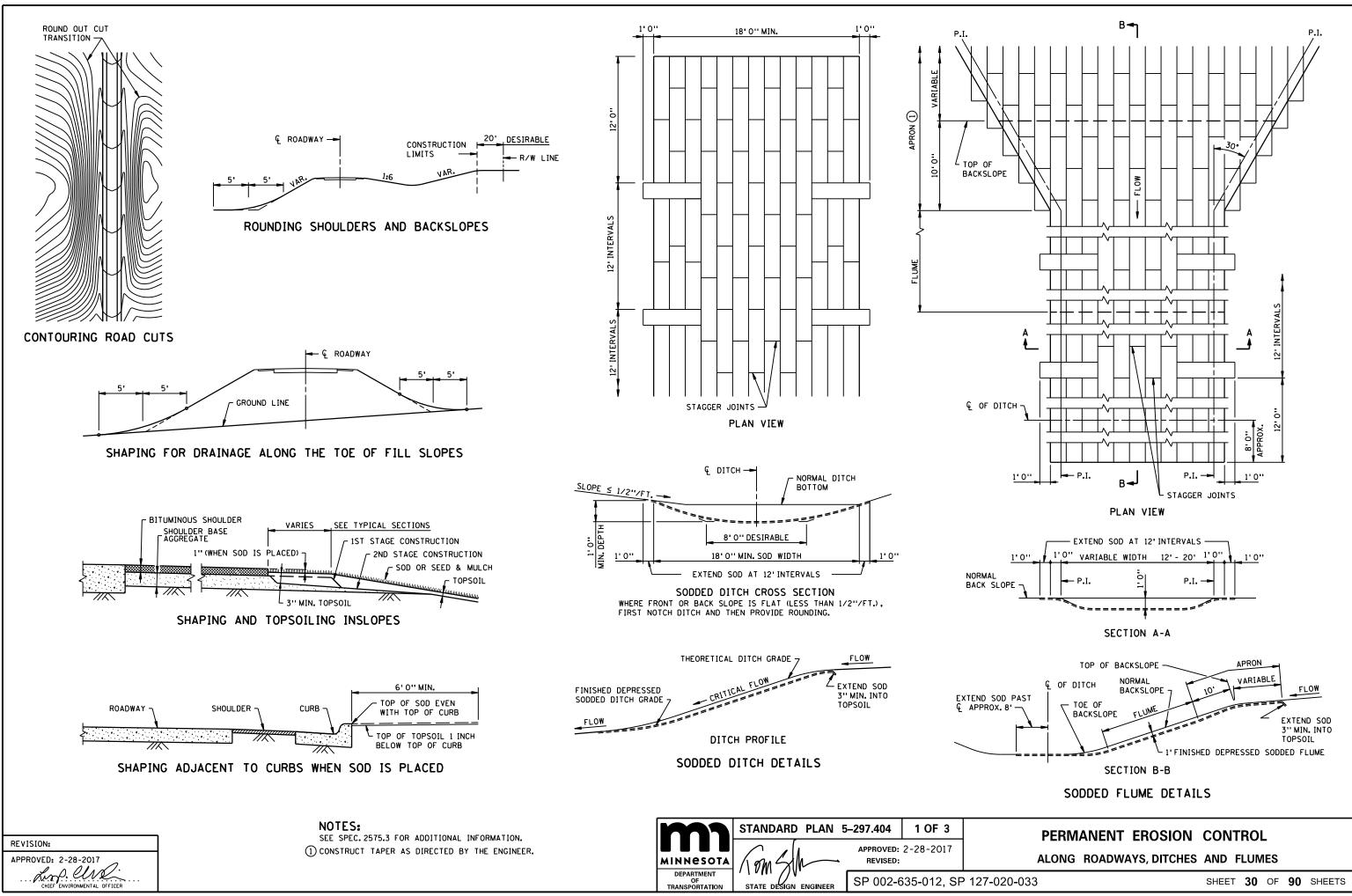
## PEDESTRIAN CURB RAMP DETAILS

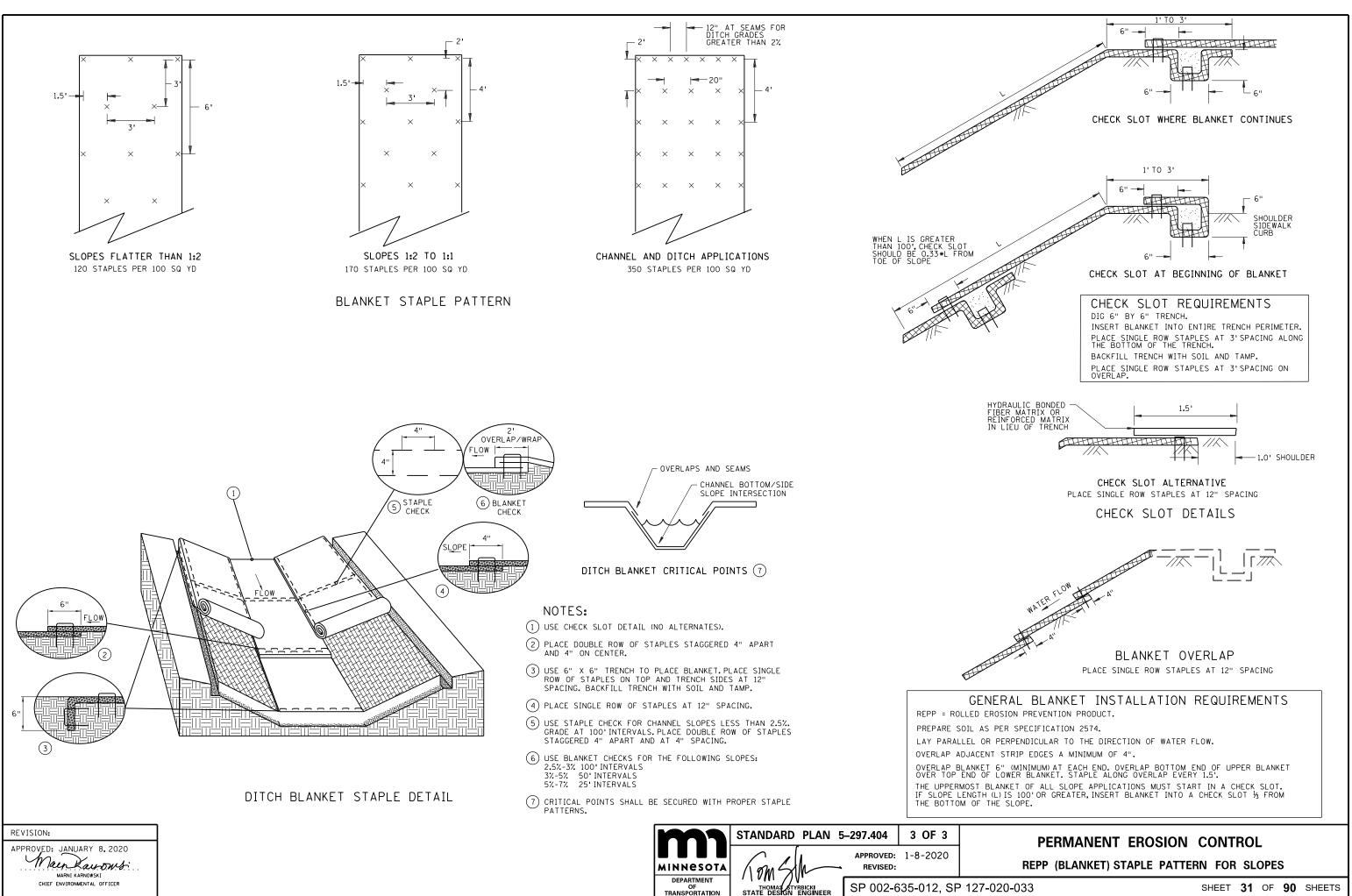
SHEET 28 OF 90 SHEETS

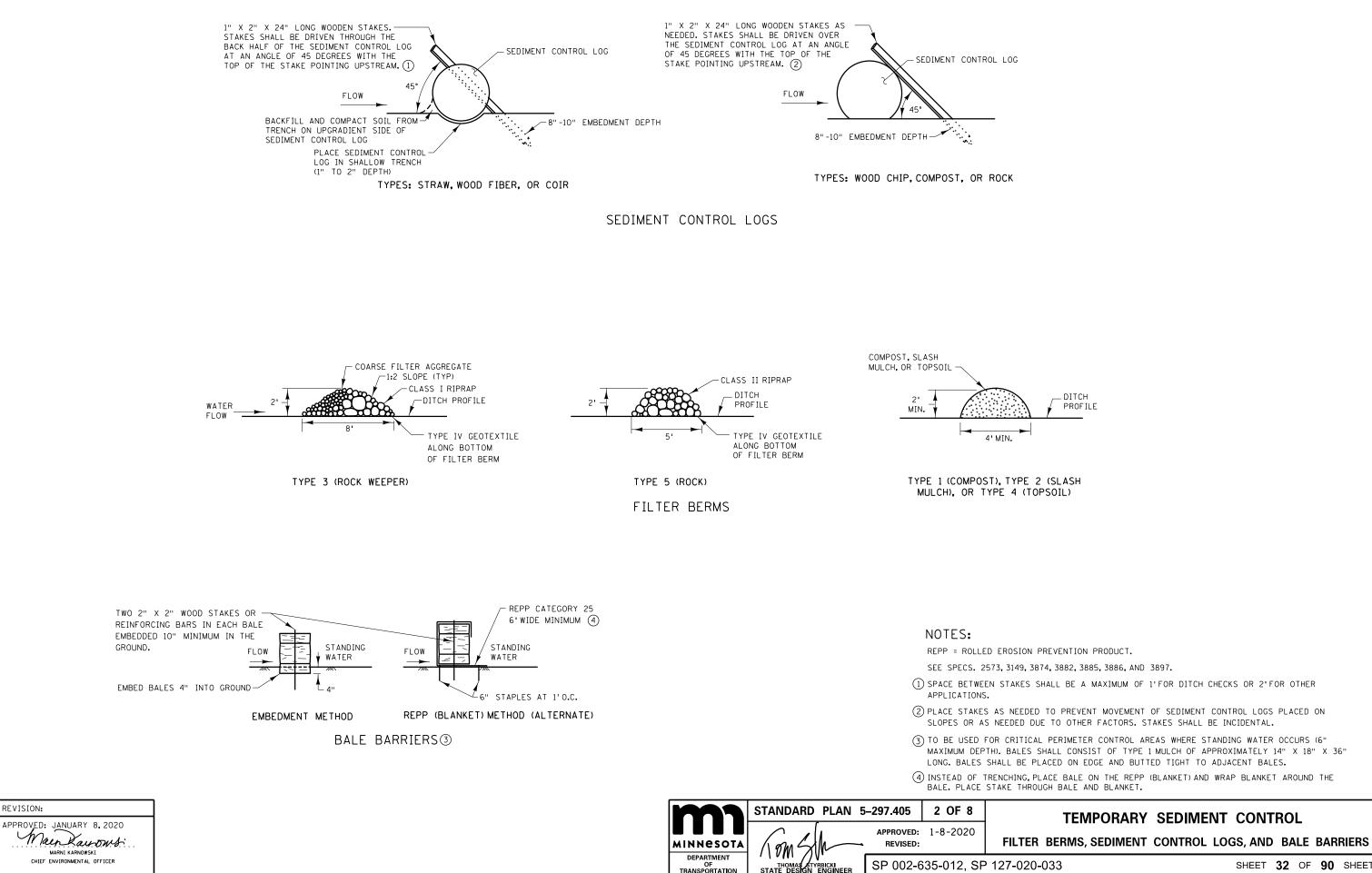


OF

THOMAS STYRBICKI STATE DESIGN ENGINEER





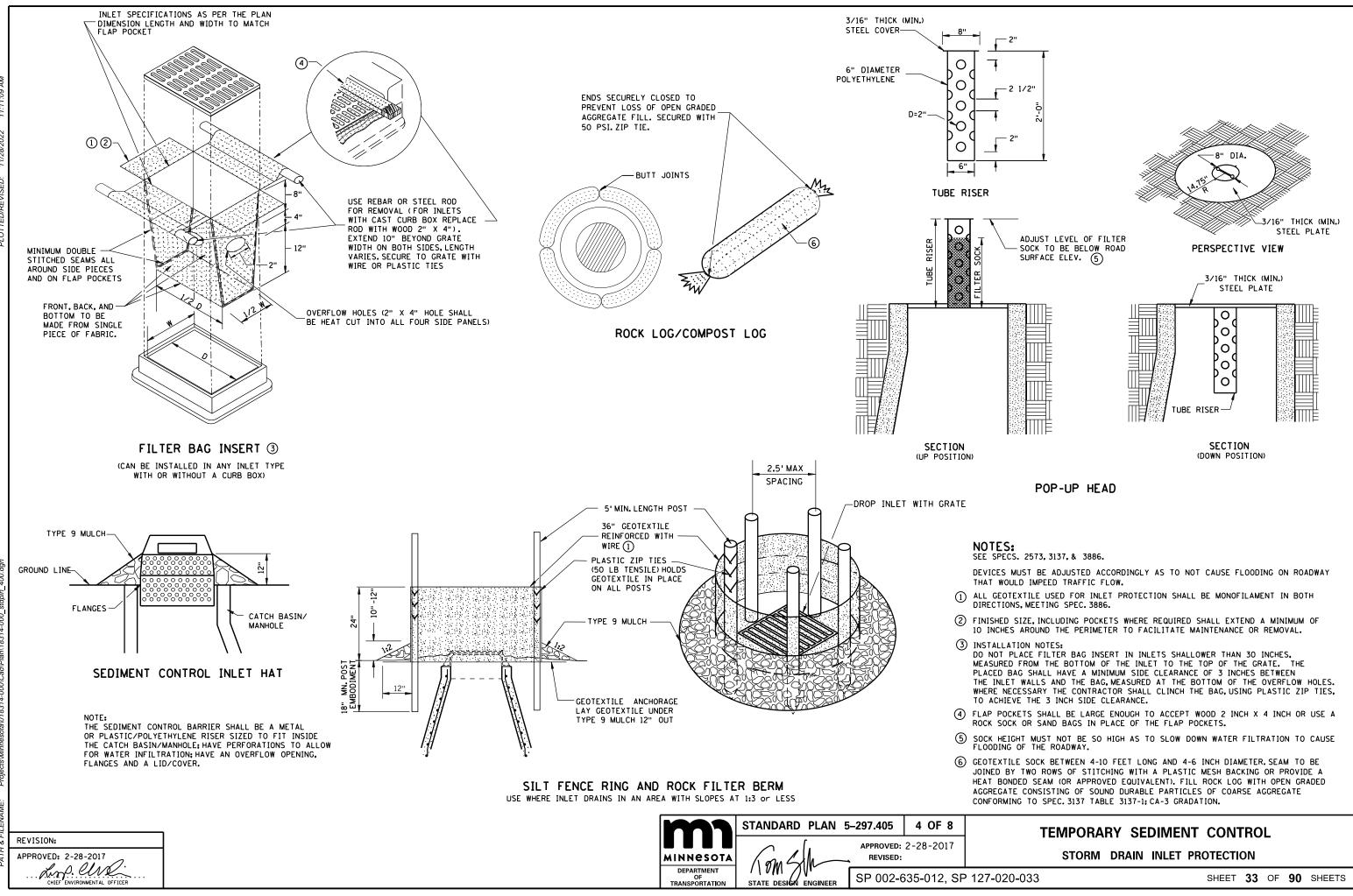


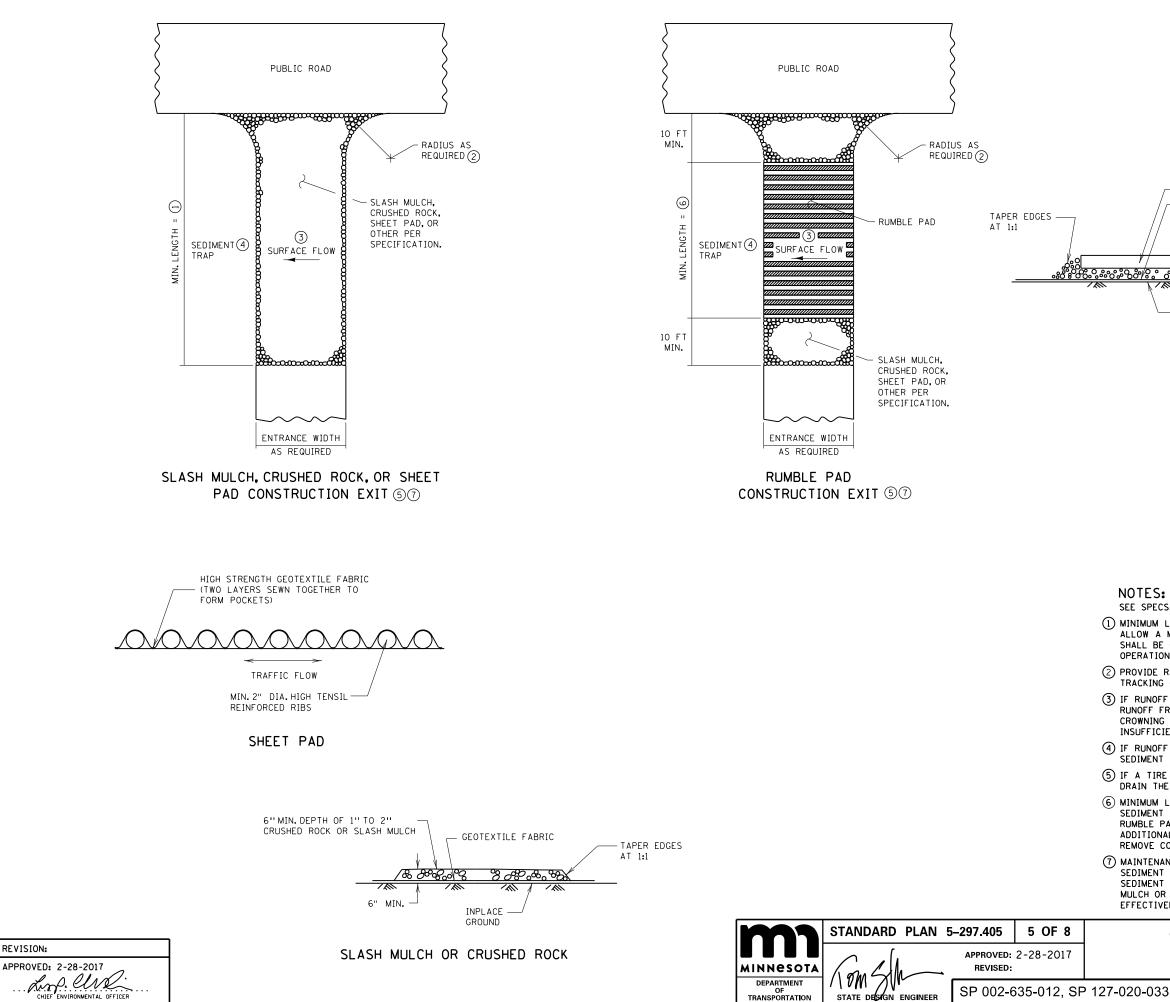
SEE SPECS. 2573, 3149, 3874, 3882, 3885, 3886, AND 3897. (1) SPACE BETWEEN STAKES SHALL BE A MAXIMUM OF 1'FOR DITCH CHECKS OR 2'FOR OTHER

**TEMPORARY SEDIMENT CONTROL** 

PROFILE

\_ DITCH





### GEOTEXTILE FABRIC CROSS SLOPE 3% OR FLATTER ~~ 6" MIN. DEPTH OF 1" TO 2" CRUSHED ROCK OR - COMPACTED SOIL SLASH MULCH

CORRUGATED STEEL PANELS

RUMBLE PAD

## NOTES:

SEE SPECS. 2573 & 3882.

() MINIMUM LENGTH SHALL BE THE GREATER OF 50 FEET OR A LENGTH SUFFICIENT TO ALLOW A MINIMUM OF 5 TIRE ROTATIONS ON THE PROVIDED PAD. MINIMUM LENGTH SHALL BE CALCULATED USING THE LARGEST TIRE WHICH WILL BE USED IN TYPICAL OPERATIONS.

(2) PROVIDE RADIUS OR WIDEN PAD SUFFICIENTLY TO PREVENT VEHICLE TIRES FROM TRACKING OFF OF PAD WHEN LEAVING SITE.

(3) IF RUNOFF FROM DISTURBED AREAS FLOWS TOWARD CONSTRUCTION EXITS, PREVENT RUNOFF FROM DRAINING DIRECTLY TO PUBLIC ROAD OVER CONSTRUCTION EXIT BY CROWNING THE EXIT OR SLOPING TO ONE SIDE. IF SURFACE GRADING IS INSUFFICIENT, PROVIDE OTHER MEANS OF INTERCEPTING RUNOFF.

(4) IF RUNOFF FROM CONSTRUCTION EXITS WILL DRAIN OFF OF PROJECT SITE, PROVIDE SEDIMENT TRAP WITH STABILIZED OVERFLOW.

(5) IF A TIRE WASH OFF IS REQUIRED THE CONSTRUCTION EXITS SHALL BE GRADED TO DRAIN THE WASH WATER TO A SEDIMENT TRAP.

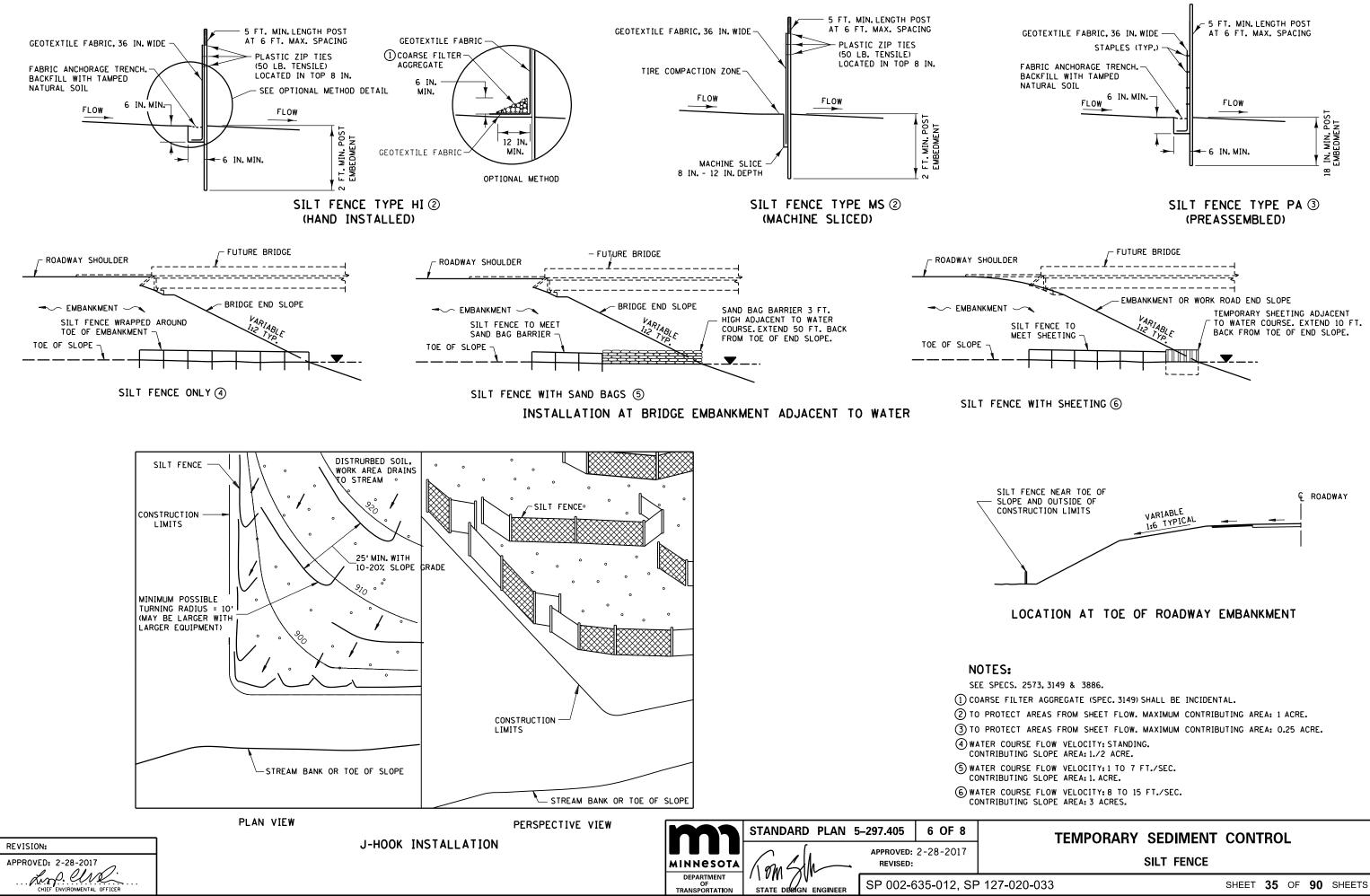
(6) MINIMUM LENGTH OF RUMBLE PAD SHALL BE 20 FEET, OR AS REQUIRED TO REMOVE SEDIMENT FROM TIRES. IF SIGNIFICANT SEDIMENT IS TRACKED FROM THE SITE, THE RUMBLE PAD SHALL BE LENGTHENED OR THE DESIGN MODIFIED TO PROVIDE ADDITIONAL VIBRATION. WASH-OFF LENGTH SHALL BE AS REQUIRED TO EFFECTIVELY REMOVE CONSTRUCTION SEDIMENT FROM VEHICLE TIRES.

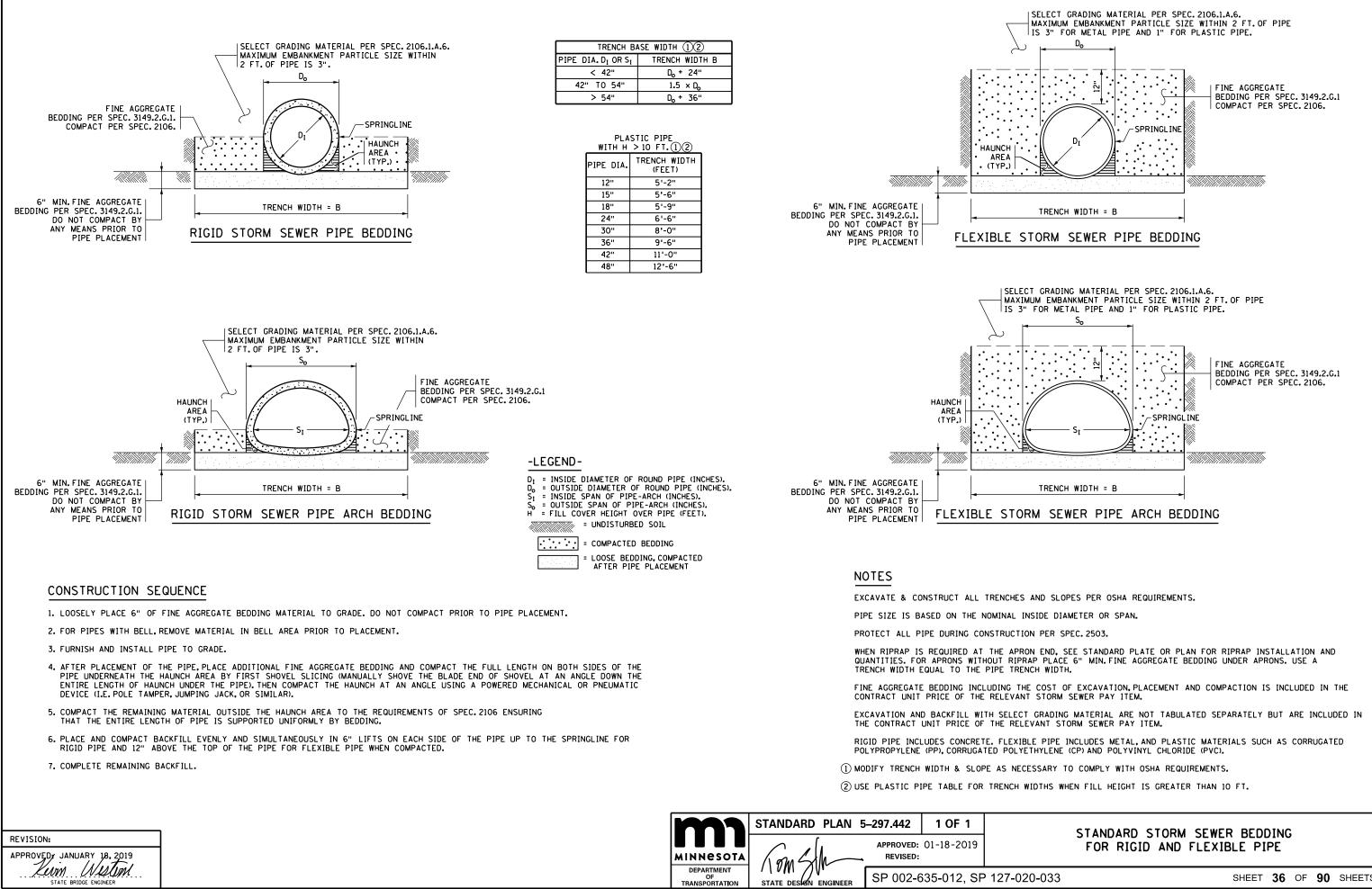
(7) MAINTENANCE OF CONSTRUCTION EXITS SHALL OCCUR WHEN THE EFFECTIVENESS OF SEDIMENT REMOVAL HAS BEEN REDUCED. MAINTENANCE SHALL CONSIST OF REMOVING SEDIMENT AND CLEANING THE MATERIALS OR PLACING ADDITIONAL MATERIAL (SLASH MULCH OR CRUSHED ROCK) OVER SEDIMENT FILLED MATERIAL TO RESTORE EFFECTIVENESS.

# **TEMPORARY SEDIMENT CONTROL**

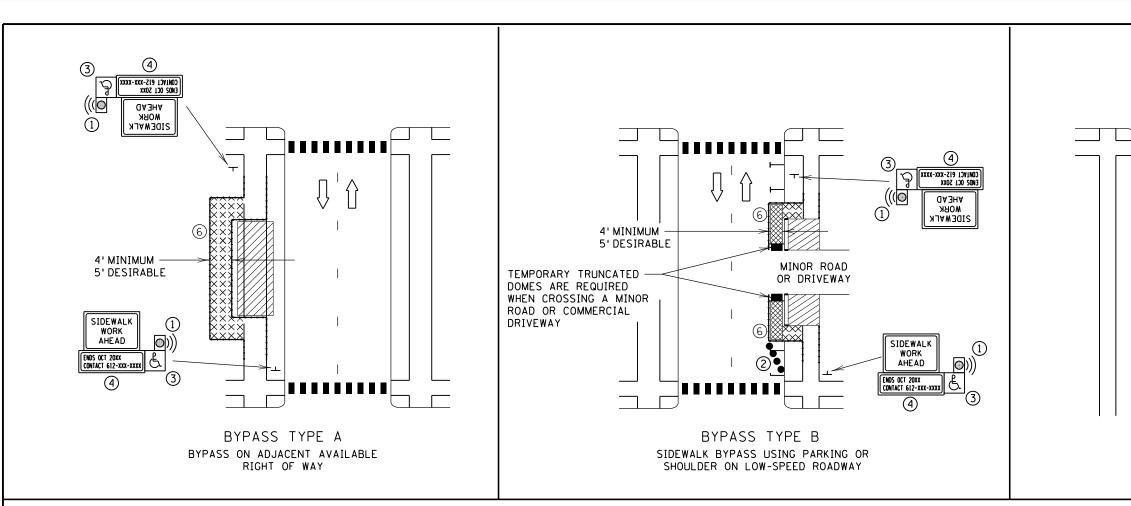
STABILIZED CONSTRUCTION EXIT

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# NOTES:

WHEN CLOSING OR RELOCATING CROSSWALKS OR SIDEWALKS, PROVIDE DETECTABLE TEMPORARY FACILITIES AND INCLUDE ACCESSIBILITY FEATURES CONSISTENT WITH EXISTING PEDESTRIAN FACILITIES. THE ALTERNATE PEDESTRIAN ROUTE (APR) MUST REMAIN OPEN AT ALL TIMES.

TEMPORARY TRAFFIC CONTROL DEVICES FOR PEDESTRIANS ARE SHOWN. OTHER DEVICES MAY BE NECESSARY TO CONTROL VEHICULAR TRAFFIC. STAGE WORK AS NECESSARY TO PROVIDE AN APR AT ALL TIMES FOR ROADWAYS WITH NO AVAILABLE DETOURS. PROVIDE A SMOOTH, CONTINUOUS, HARD SURFACE THROUGH THE LENGTH OF THE APR.

PROVIDE A FIRM, STABLE, FREE-DRAINING, NON-SLIP, TEMPORARY WALKWAY SURFACE REGARDLESS OF WEATHER CONDITIONS. SUPPORT THE TEMPORARY WALKWAY SURFACE WITH A SOLID BASE TO COVER SHORT SEGMENTS OF ROUGH, SOFT, OR UNEVEN GROUND. THE TEMPORARY WALKWAY SURFACE WILL ALLOW NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, AND OTHER MOBILITY DEVICES. CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4" OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR THE TEMPORARY WALKWAY SURFACE. GRAVEL, MILLINGS, AND OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS. IF NEEDED, PROVIDE SOIL STABILIZATION TO PREVENT EROSION AROUND TEMPORARY SURFACES.

IF A 60" PEDESTRIAN WALKWAY WIDTH ISN'T PROVIDED FOR THE ROUTE, THEN A 60" BY 60" PASSING SPACE IS REQUIRED EVERY 200'. THE MINIMUM WIDTH OF THE WALKWAY IS 48".

COVER OR DEACTIVATE ANY PEDESTRIAN TRAFFIC SIGNALS CONTROLLING CLOSED CROSSWALKS.

POST-MOUNTED SIGNS LOCATED ADJACENT TO A SIDEWALK SHALL HAVE A 7'MINIMUM CLEARANCE FROM THE BOTTOM OF THE LOWEST SIGN TO THE SIDEWALK SURFACE. SHARED-USE PATH SHALL HAVE 8'MINIMUM CLEARANCE FROM THE BOTTOM OF THE LOWEST SIGN TO THE SHARED USE PATH SURFACE.



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APR SHOULD BE KEPT FREE OF TRASH, SEDIMENT, AND DEBRIS.

ANY PORTABLE SIGN OR BARRICADE PLACED OR STORED IN A PEDESTRIAN WALKWAY THAT COULD POSE A HAZARD TO A VISUALLY-IMPAIRED PEDESTRIAN SHALL HAVE A DETECTABLE EDGE TO GUIDE THE PEDESTRIAN AROUND THE HAZARD. FOR ADDITIONAL GUIDANCE, SEE THE "DETECTABLE EDGE FOR SIGN ON PORTABLE STAND" DETAIL ON STADARD PLAN 5-297.813.

MINIMIZE DISRUPTION TO PEDESTRIANS TO THE MAXIMUM EXTENT FEASIBLE BY PROVIDING AN APR IN THE FOLLOWING ORDER OF PREFERENCE:

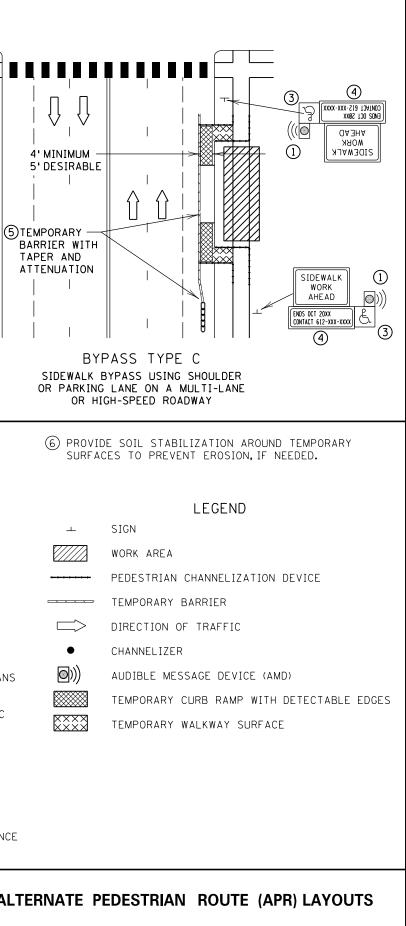
PROVIDE THE APR ON THE SAME SIDE OF THE ROADWAY AS THE DISRUPTED ROUTE UTILIZING 2. BYPASSES.

WHERE NOT FEASIBLE TO PROVIDE A SAME-SIDE APR, PROVIDE AN APR DETOUR ON THE OTHER SIDE 3. OF THE ROADWAY.

WHERE NOT FEASIBLE TO PROVIDE AN APR ON EITHER SIDE OF THE ROADWAY, PROVIDE AN APR DETOUR WITH TRAILBLAZING SIGNS.

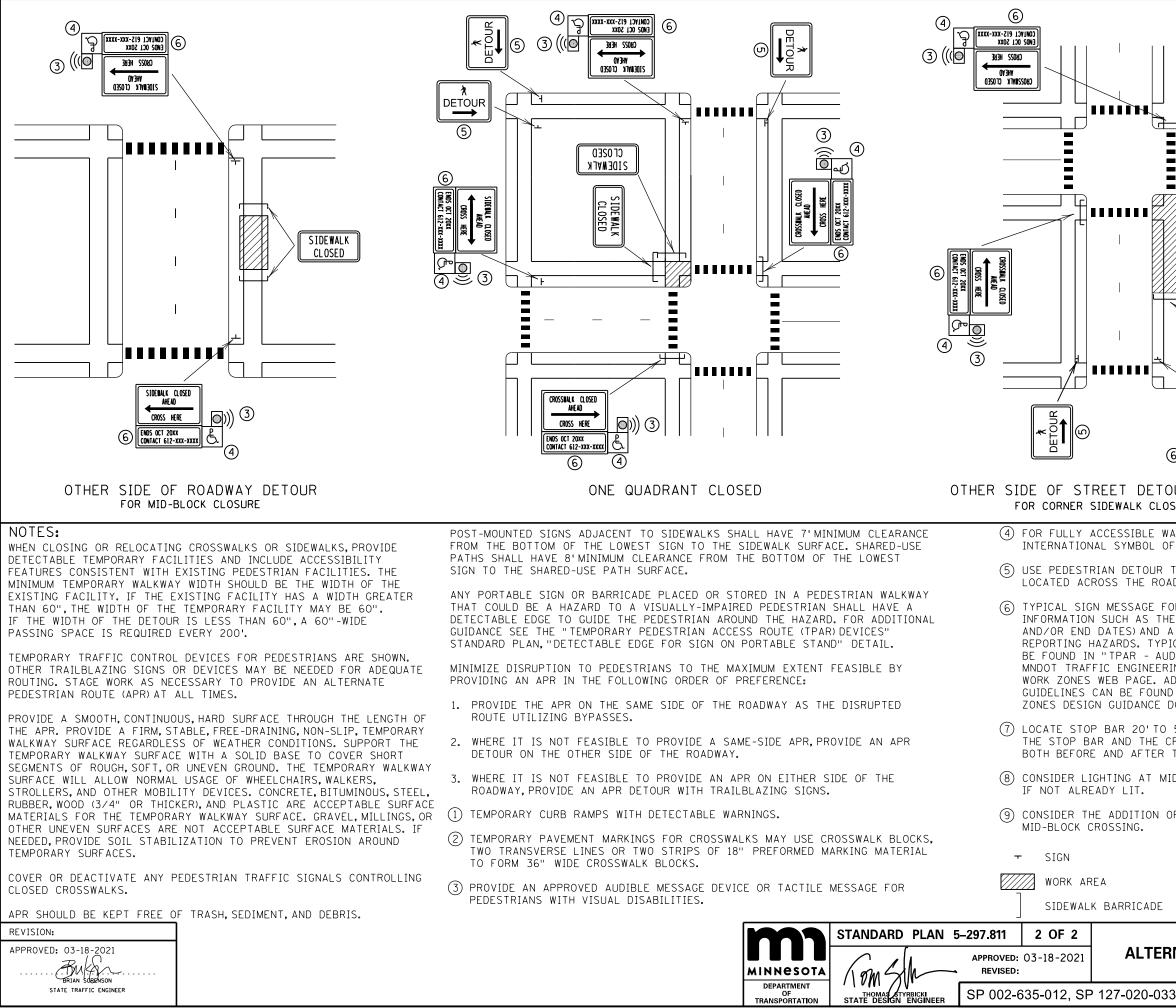
- (1) CONSIDER PROVIDING AN APPROVED AUDIBLE MESSAGE DEVICE OR TACTILE MESSAGE FOR PEDESTRIANS WITH VISUAL DISABILITIES.
- (2) RECOMMENDED TAPER WHEN THE CLOSED AREA WAS PREVIOUSLY USED AS AN INTERMITTENT TRAFFIC LANE OR BYPASS LANE IS 25'LONG USING FIVE EQUALLY-SPACED CHANNELIZING DEVICES.
- (3) FOR FULLY-ACCESSIBLE WALKWAYS THROUGH WORKZONES, CONSIDER DISPLAYING THE INTERNATIONAL SYMBOL OF ACCESSIBILITY.
- (4) INCLUDE INFORMATION SUCH AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING AND/OR END DATES) AND A PROJECT CONTACT NUMBER FOR 24/7 QUESTIONS OR REPORTING HAZARDS ON SIGNS FOR TEMPORARY PEDESTRIAN DETOURS.
- (5) SEE THE MOST CURRENT EDTION OF THE MNDOT TEMPORARY BARRIER GUIDANCE MANUAL FOR GUIDANCE ON PLACEMENT AND USAGE OF TEMPORARY BARRIER.

m	STANDARD PLAN 5	5–297.811	1 OF 2		
MINNESOTA	(om Sh	APPROVED: 03-18-2021 REVISED:			
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CLOSED SIDE WALK CLOSED SIDE WALK SIDE WA
DETOUR OR DETOUR WITH TRAILBLAZING SIGNS LK CLOSURE WITH OPTIONAL TEMPORARY CROSSWALK
IBLE WALKWAYS THROUGH WORKZONES,CONSIDER DISPLAYING THE ABOL OF ACCESSIBILITY.
ETOUR TRAILBLAZING SIGNS IF THE PEDESTRIAN DETOUR IS NOT HE ROADWAY FROM THE SIDEWALK CLOSURE.
GAGE FOR AN ALTERNATE PEDESTRIAN ROUTE SHOULD INCLUDE AS THE DURATION OF THE WALKWAY RESTRICTIONS (BEGINNING ) AND A PROJECT CONTACT NUMBER FOR 24/7 QUESTIONS OR S. TYPICAL INFORMATION INCLUDED IN AN AUDIBLE MESSAGE CAN R - AUDIBLE MESSAGE CONTENT GUIDELINES" AVAILABLE ON THE GINEERING WEBSITE ON THE PEDESTRIAN ACCOMMODATIONS THROUGH AGE. ADDITIONALLY, A SUMMARY OF THE MESSAGE CONTENT FOUND WITHIN THE PEDESTRIAN ACCOMMODATIONS THROUGH WORK DANCE DOCUMENT.
20'TO 50'BEFORE THE CROSSWALK. RESTRICT PARKING BETWEEN THE CROSSWALK. ON TWO-WAY ROADWAYS,RESTRICT PARKING AFTER THE CROSSWALK FOR BOTH DIRECTIONS.
AT MID-BLOCK CROSSINGS IN ORDER TO ILLUMINATE PEDESTRIANS, IT.
ITION OF RI-6d SIGNS AS MOTORISTS ARE NOT EXPECTING IG. LEGEND DIRECTION OF TRAFFIC (MD)) AUDIBLE MESSAGE DEVICE (AMD) R1-6d
ICADE TEMPORARY CURB RAMP WITH DETECTABLE EDGES
ALTERNATE PEDESTRIAN ROUTE (APR) LAYOUTS

SHEET 38 OF 90 SHEETS

# NOTES:

TPAR SHOULD BE KEPT FREE OF TRASH, SEDIMENT, AND DEBRIS.

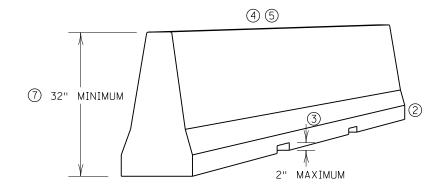
RAILINGS OR OTHER OBJECTS MAY PROTRUDE A MAXIMUM OF 4" INTO THE WALKWAY CLEAR SPACE WHEN LOCATED A MINIMUM OF 27" ABOVE THE WALKWAY SURFACE.

USE CRASHWORTHY TEMPORARY BARRIERS WHEN USED AS A PEDESTRIAN CHANNELIZERS.

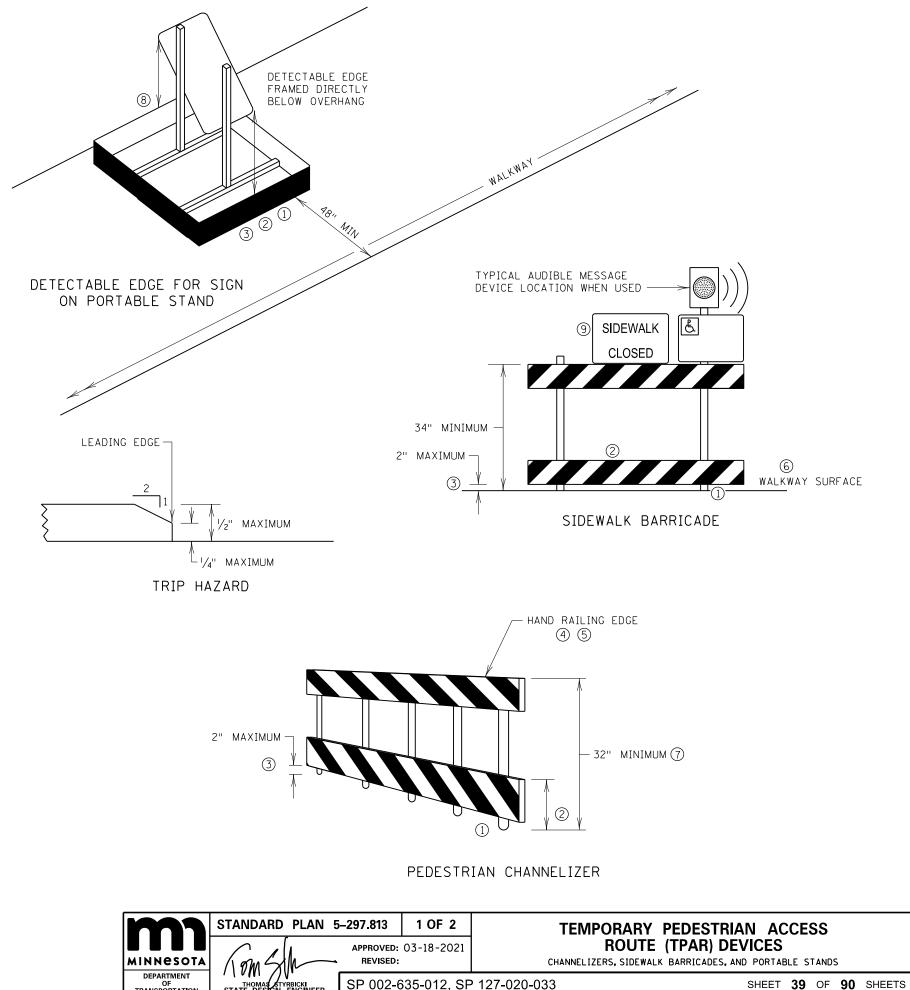
PLACE SIDEWALK BARRICADES ACROSS THE ENTIRE WIDTH OF THE WALKWAYSURFACE, WHEN USED.

USE INTERLOCKING DEVICES TO CHANNELIZE PEDESTRIAN FLOW TO PREVENT GAPS THAT COULD ALLOW PEDESTRIANS TO STRAY FROM THE CHANNELIZED PATH.

- (1)PROVIDE DETECTABLE EDGE TO ANY TRIPPING HAZARD IN THE WALKWAY.LOCATE BALLAST BEHIND THE DETECTABLE EDGE OR INTEGRAL TO THE DEVICE. ANY SUPPORT ON THE FRONT OF THE DEVICE SHOULD NOT EXTEND INTO THE 48" MINIMUM WALKWAY CLEAR SPACE. ANY SUPPORT THAT EXTENDS INTO THE WALKWAY SHALL NOT EXCEED  $^{\prime}_{2}$ " HEIGHT ABOVE THE WALKWAY SURFACE; IF GREATER THAN 1/4", BEVEL AS SHOWN IN THE TRIP HAZARD DETAIL.
- (2) PROVIDE CONTINUOUS DETECTABLE EDGES EXTENDING AT LEAST 6" ABOVE THE WALKWAY SURFACE. MARK DETECTABLE EDGES WITH A COLOR THAT CONTRASTS WITH THE WALKWAY SURFACE. PLACE THE DETECTABLE EDGE AROUND ANY PORTABLE SIGN STAND IN THE WALKWAY AREA WHERE THE SIGN POSES A HAZARD TO A VISUALLY-IMPAIRED PEDESTRIAN.
- (3) DEVICES AND DETECTABLE EDGES SHALL NOT BLOCK WATER DRAINAGE FROM THE WALKWAY. A GAP HEIGHT OR OPENING FROM THE WALKWAY SURFACE UP TO A MAXIMUM OF 2" IS ALLOWED FOR DRAINAGE PURPOSES.
- (4)USE HAND AND GUIDE RAILS WHEN REQUIRED. INSTALL TOP RAIL OR TOP SURFACE IN A VERTICAL PLANE PERPENDICULAR TO THE WALKWAY, ABOVE THE DETECTABLE EDGE. PROVIDE CONTINUOUS RAIL AT A HEIGHT OF 34" TO 38" ABOVE THE WALKWAY SURFACE. USE RAIL SUPPORTS THAT MINIMIZE CONTACT WITH PEDESTRIAN'S HANDS AND FINGERS. SEE "PUBLIC RIGHTS OF WAY ACCESSIBILITY GUIDELINES (PROWAG) 2005" FOR ADDITIONAL GUIDANCE ON USE OF HAND AND GUIDE RAILS.
- (5) USE DEVICES FREE OF SHARP OR ROUGH EDGES, AND USE ROUNDED FASTENERS (BOLTS) TO PREVENT HARM TO A PEDESTRIAN'S HANDS, ARMS, AND CLOTHING.
- 6) REGARDLESS OF WEATHER CONDITIONS PROVIDE FIRM, STABLE, FREE-DRAINING, AND NON-SLIP TEMPORARY WALKWAY SURFACES. TEMPORARY WALKWAY SURFACES SHALL ALLOW NORMAL USAGE OF WHEELCHAIRS, WALKERS, STROLLERS, OR OTHER MOBILITY DEVICES. CONCRETE, BITUMINOUS, STEEL, RUBBER, WOOD (3/4" OR THICKER), AND PLASTIC ARE ACCEPTABLE SURFACE MATERIALS FOR A TEMPORARY WALKWAY SURFACE. GRAVEL, MILLINGS, AND OTHER UNEVEN SURFACES ARE NOT ACCEPTABLE SURFACE MATERIALS.
- (7) PROVIDE 32" HIGH OR GREATER LONGITUDINAL CHANNELIZING DEVICES FOR PEDESTRIANS.
- AN EDGE OF THE FRAMING MAY BE REMOVED IF IT IS NOT NEEDED FOR PEDESTRIAN GUIDANCE. STABILITY OF THE DETECTABLE EDGE SHOULD BE MAINTAINED.
- (9)TYPICAL. SEE SIGNING PLAN FOR DETAILS.



PEDESTRIAN CHANNELIZER DEVICE USING A PORTABLE CONCRETE BARRIER



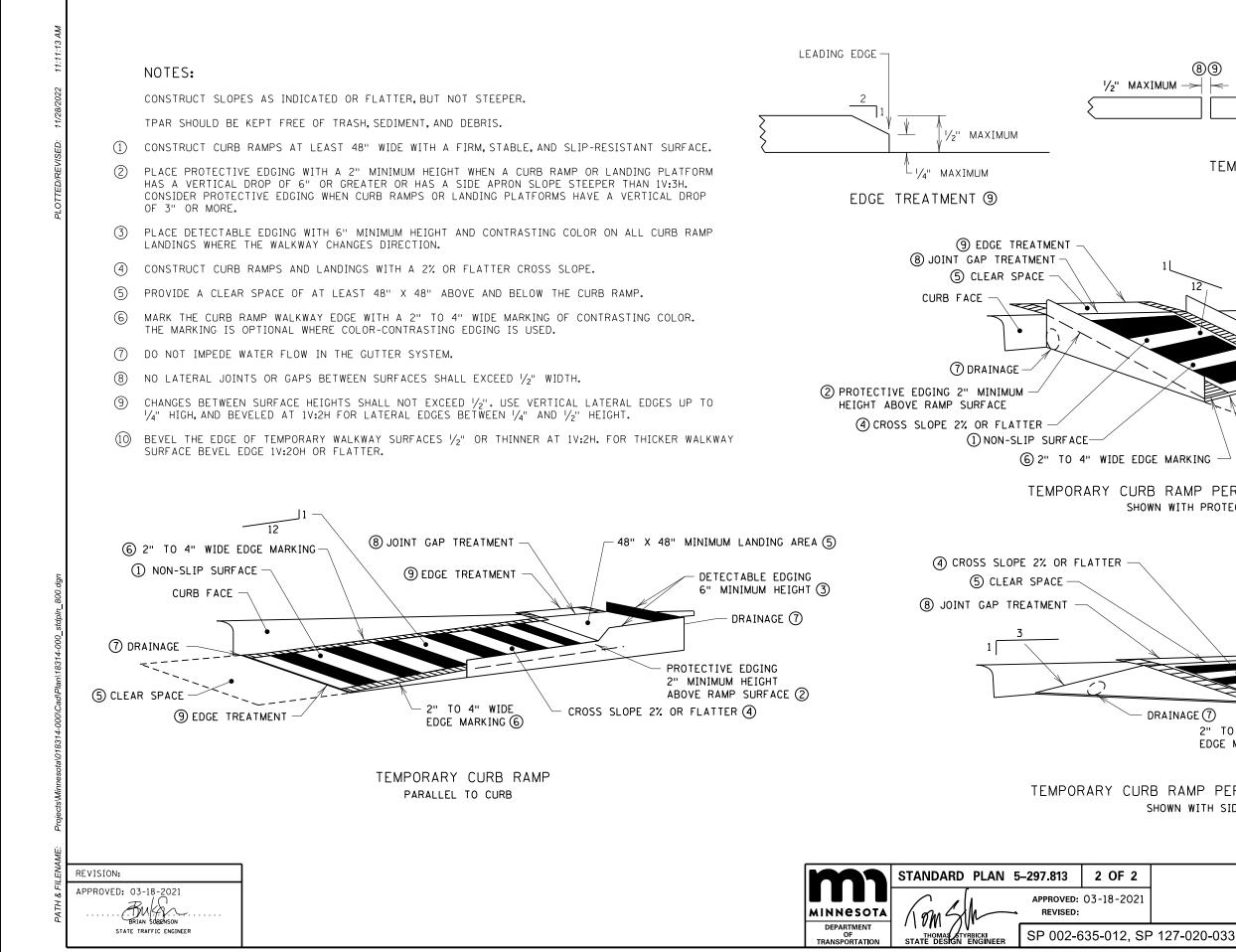
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DEPARTMENT OF TRANSPORTATION	THOMAS STYRBICKI STATE DESIGN ENGINEER	SP 002-6	35-012, SF	• 127-0

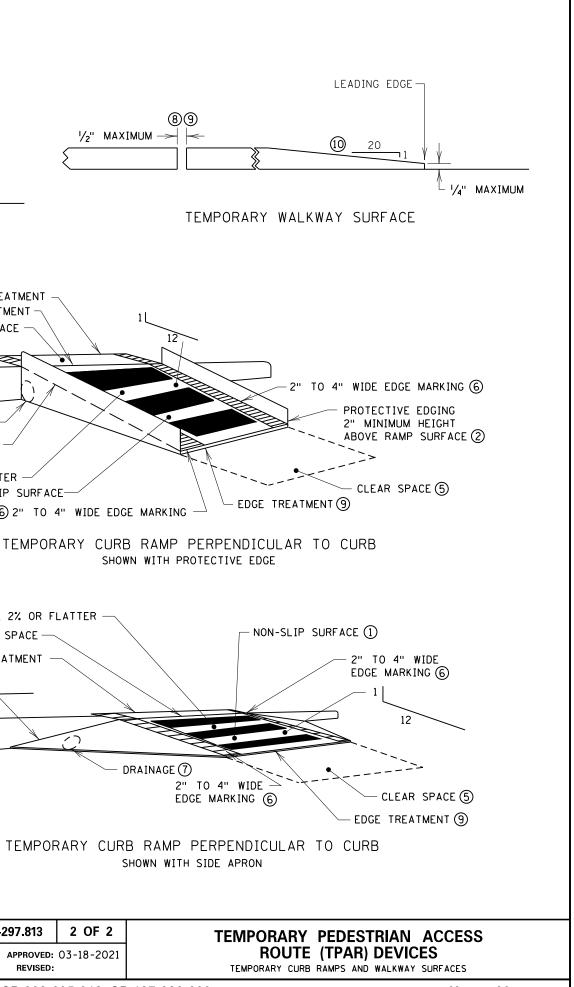
REVISION:

APPROVED: 03-18-2021

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STATE TRAFFIC ENGINEER





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	<u>NOTES &amp; GUIDELINES</u> GENERAL INFORMATION:		INDEX
	1. ALL DISTANCES ARE APPROXIMATE.		TD A ERIC CONTRACT
II:II:I5 AM	2. ACCESS SHALL BE MAINTAINED TO ALL RESIDENTS AT ALL TIMES. SIGNING:		TRAFFIC CONTROL SHEET NO. DESCRIPTIONS
8/2022	1. ALL TEMPORARY SIGNS ARE REQUIRED TO BE CRASHWORTHY PER THE AASHTO MANUAL FOR ASSESSING SAFETY HARDWARE 2016 (MASH-2016). TEMPORARY SIGN STRUCTURES THAT ARE CRASHWORTHY UNDER THE NATIONAL COOPERATIVE HIGHWAY RESEARCH PROGRAM REPORT 350 (NCHRP-350) MAY BE USED PROVIDED THE DEVICES WERE		41 TEMPORARY TRAFFIC CONTROL TITLE SHEET
SED: 11/2	ACQUIRED BY THE CONTRACTOR PRIOR TO DECEMBER 31ST,2019.THE MINNESOTA TYPE "C" AND "D" BRACED LEG U-CHANNEL (KNEE BRACE)SIGN SUPPORT IS NOT ALLOWED.		42 SIGN TABULATION
REVI	<ol> <li>THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF THE FINAL SIGNS TO ASSURE THAT THE FINAL SIGNS ARE PLACED AS NEEDED, OR PROVIDE TEMPORARY SIGNING UNTIL THE FINAL SIGNING IS PLACED.</li> <li>WHEN MULTIPLE GROUND MOUNTED SIGN STRUCTURES ARE PLACED ADJACENT TO EACH OTHER THERE SHOULD BE</li> </ol>		43 SIGN DETAILS
PLOTTED	NO MORE THAN 2 POSTS WITHIN 84" OF EACH OTHER. WHEN THIS SPACING CAN NOT BE MAINTAINED, THEN SIGN STRUCTURES SHALL BE OFFSET, AND STAGGERED WITH A MINIMUM OF 4'BETWEEN SIGN STRUCTURES BOTH LATERALLY AND LONGITUDINALLY. EXAMPLE SHOWS DETOUR SIGNAGE, BUT THIS REQUIREMENT APPLIES TO ALL SIGNAGE.		44 TEMPORARY SQUARE TUBE GROUND MOUNTED SIGN PLACEMENT
	4. WHEN A SIGN OR BARRICADE IS ORIENTED SUCH THAT VISIBILITY TO ROAD USERS INCLUDING BIKES AND PEDESTRIANS IS REDUCED ENOUGH TO CAUSE A HAZARD, DELINEATE THE SIGN/BARRICADE WITH APPROPRIATE DEVICES.		45 NCHRP 350 COMPLIANT GROUND MOUNTED TEMPORARY SIGN INSTALLATION DETAILS
	<ol> <li>TEMPORARY SIGNS SHALL BE PLACED SUCH THAT OBSTACLES DO NOT BLOCK THEM FROM BEING VIEWED BY APPROACHING ROAD USERS. OBSTACLES MAY INCLUDE, BUT ARE NOT LIMITED TO, LIGHT POLES, TREES, SIGNS, AND BUILDINGS.</li> </ol>		46 TEMPORARY SIGN COVERING AND MODIFICATION
	<ul> <li>6. TEMPORARY SIGNS SHALL BE PLACED AND ORIENTED APPROXIMATELY AS SHOWN IN THE PLAN, AT RIGHT ANGLES TO DIRECTION OF AND FACING THE TRAFFIC THEY ARE INTENDED TO SERVE, UNLESS OTHERWISE SPECIFIED.</li> </ul>		47 ANOKA COUNTY HIGHWAY DEPARTMENT SIGN DETAILS
	7. LONGITUDINAL DROPOFFS SHALL BE SIGNED AS SHOWN IN THE "MINNESOTA TEMPORARY TRAFFIC CONTROL FIELD MANUAL" PAGES (6K-aj) THRU (6K-a) UNLESS OTHERWISE SPECIFIED IN THESE PLANS.		48 ANOKA COUNTY HIGHWAY DEPARTMENT SIGN PLACEMENT
	8. AFTER REMOVAL OF SIGN AND/OR SIGN BASE, BACK FILL, COMPACT, AND LEVEL SOIL TO MATCH SURROUNDING SOIL.		49 ANOKA COUNTY HIGHWAY DEPARTMENT TEMPORARY SIGN COVERING
	PAVEMENT MARKING;		
	1. MASK OR REMOVE ANY CONFLICTING PAVEMENT MARKINGS AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER. 2. SEE 2582 IN THE SPECIAL PROVISIONS FOR PAVEMENT MARKING SPOTTING RESPONSIBILITIES.		50 TRAFFIC DETOURS
	BARRIER & DELINEATION:		
	1. PLACE AND MAINTAIN PORTABLE BARRIER DELINEATORS ANY TIME TRAFFIC IS WITHIN 10'OF BARRIER. DELINEATORS WILL EACH HAVE A MINIMUM OF 24 SQ IN. OF RETROREFLECTIVE SURFACE ON BOTH SIDES PLACED AT 25'SPACING ON TOP OF THE BARRIER. SIDE MOUNTED PORTABLE BARRIER DELINEATORS WILL HAVE A MINIMUM OF 12 SQ. IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED AT 12.5'SPACING. IF A SMALLER APPROVED BARRIER DELINEATOR IS USED IT SHALL BE A MINIMUM OF 6 SQ IN. OF RETROREFLECTIVE SURFACE AREA AND BE PLACED ON BOTH SIDES AT 6.25'SPACING. TEMPORARY BARRIER DELINEATOR COLOR SHALL MATCH APPLICABLE PAVEMENT MARKING.		
	CONSTRUCTION INFORMATION SIGNING:		
	1. THE CONTRACTOR SHALL USE CONSTRUCTION INFORMATION SIGNING AS SHOWN IN THE PLAN WHICH ARE TO BE USED AS FOLLOWS:	TRAFFIC CONTROL DEVICES &	SYMBOLS LEGEND
	PLACE THE G20-X1 ADVANCE CLOSURE NOTICE SIGN(S) 10 DAYS PRIOR TO THE PLANNED CLOSURE DATE.		
14-000_tca.dgr	PLACE CHANGABLE MESSAGE SIGN ADVANCE NOTICE OF CONSTRUCTION 10 DAYS PRIOR TO CONSTRUCTION. PLACE G2O-X2 ADVANCE NOTICE SIGNS 7 DAYS PRIOR TO THE WORK STARTING DATE.ONCE WORK BEGINS, COVER THE START DATE LEGEND WITH SUGGESTED PLAQUE CONTAINED IN THIS PLAN. IF NO ALTERNATE MESSAGE IS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER,DISPLAY THE CORRECT ESTIMATED	SYMBOL DESCRIPTION	
<sup>-</sup> lan\183	FINISH DATE, MONTH, OR SEASON.		TRAFFIC / WORK AREA
-000/CadV	IF CONSTRUCTION INFORMATION SIGNING IS NO LONGER VISIBLE TO THE MOTORING PUBLIC ONCE WORK BEGINS,MOVE SAID SIGNING TO A SITE IN ADVANCE OF THE WORK ZONE OR CLOSURE AS SHOWN IN THE PLAN OR APPROVED BY THE ENGINEER.		
sota\01831-		L     TYPE III BARRICAD       PORTABLE CHANGEA	ABLE MESSAGE SIGN (PCMS)
ects\Minne		D TYPE A FLASHING	WARNING LIGHT
<sup>г</sup> Н & FILENAME: Proje			
WSB PAI	NO. DATE BY CHK REVISIONS  Design By: I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER  A JP  Pion By: THE LANS OF THE STATE OF MINNESOTA.	CSAH 35 at Gardena Ave Intersection	ANOKA COUNTY, MINNESOTA SHEET 41
	AJF         PRINT NAME:         AMDPON J PLONNAN, PE           AJP         AJP         AJP           Approved By:         AJP         DATE         11/28/2022	NSD Improvements ANOKA COUNTY Anoka County Highway Department	TITLE SHEET OF TEMPORARY TRAFFIC CONTROL PLAN SP 002-635-012, SP 127-020-033 SHEETS
			l l

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11:11:15
11/28/2022
PLOTTED/REVISED:

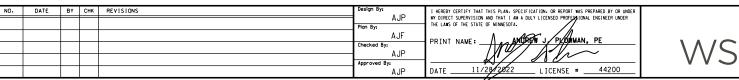
<u>"M" SERIES</u>					<u>"W" SERIES</u>				
SIGN	SIGN NO.	COLOR	SIZE (IN.X IN.) (W×H)	SIGN	1	SIGN NO.	COLOR	S (IN. (W	
NORTH	M3-1	WHITE ON BLUE	24 X 12	ROAD WORK AHEAD		W20-1	BL ACK ON ORANGE	48	
SOUTH	M3-3	WHITE ON BLUE	24 X 12	DETOUR AHEAD		W20-2	BL ACK ON ORANGE	48	
DETOUR	M4-8	BLACK ON ORANGE	24 X 12	ROAD CLOSED AHEAD	>	W20-3	BL ACK ON ORANGE	48	
END DE TOUR	M4-80 BLACK ON 24 X 18 BAI			BARR	ARRICADE MOUNTED SIGNS				
	M5-1 (R/L)	WHITE ON BLUE	21 × 15	SIGN	1	SIGN NO.	COLOR	S (IN. (W	
	M6-1 (R/L)	WHITE ON BLUE	21 × 15	ROAD		R11-2M	BLACK ON WHITE	48	
	M6-3	WHITE ON BLUE	21 × 15	ROAD CLOS 0.25 MILES AF LOCAL TRAFFIC ROAD CLOS 1 MILES AF		R11-3a	BL ACK ON	60	
		BLUE		ROAD CLOS 1 MILES AI LOCAL TRAFFIC		R11-3a			

<u>"G" SERIES</u>							
SIGN	SIGN COLOR (II		SIZE (IN.X IN.) (W×H)				
END ROAD WORK	G20-2	BL ACK ON ORANGE	36 X 18				

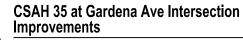
### GENERAL NOTES:

ROAD CLOSED LOCAL TRAFFIC ONLY

- 1. SIGN STRUCTURE TABULATIONS INDICATE SQUARE TUBE GROUND MOUNTED SIGN STRUCTURES THAT ARE MASH-16 COMPLIANT.
- 2. USE PRODUCTS FROM THE BASES FOR SQUARE TUBE SIGN STRUCTURES APPROVED/QUALIFIED PRODUCTS LIST FOR THE INDICATED SQUARE TUBE RISER POST SIZE. PLACE PER THE MANUFACTURER'S SPECIFICATIONS.
- 3. ALUMINUM STRINGERS SHALL BE USED FOR SIGNS 36 INCHES AND WIDER. SEE MANUFACTURER'S SPECIFICATIONS FOR SQUARE TUBE MOUNTING DETAILS. STRINGERS ON SINGLE POST ASSEMBLIES ARE REQUIRED TO BE AT LEAST 9 INCHES IN FROM THE EDGE OF THE SIGN.
- 4. UNLESS OTHERWISE INDICATED, USE 2-1/2 INCH RISER POSTS FOR GROUND MOUNTED SIGN STRUCTURES.







SIZE (IN. X IN.) (W×H)

48 x 48

48 × 48

48 × 48

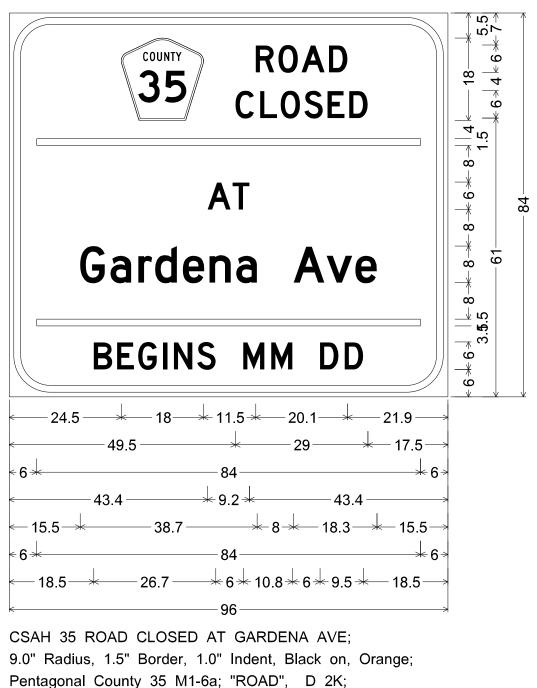
SIZE (IN.X IN.) (W×H)

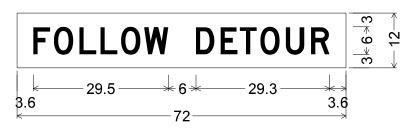
48 X 30

60 X 30

ANOKA COUNTY Anoka County Highway Department

า	ANOKA COUNTY, MINNESOTA	SHEET <b>42</b>				
_	TABULATION					
	TEMPORARY TRAFFIC CONTROL PLAN SP 002-635-012, SP 127-020-033	90 SHEETS				



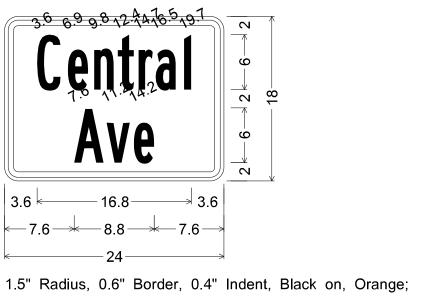


No border, Black on, Orange; "FOLLOW DETOUR" Black, D 2K;





"Ave", B 2K;



"Ave", B 2K;

"BEGINS", D 2K; "MM DD", D 2K;

Design By: AJP Pion By: AJF Checked By: AJP Approved By: AJP	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESTIONAL ENGINEER UNDER THE LAWS OF THE STATE OF WINNESOTA. PRINT NAME: 	





**CSAH 35 at Gardena Ave Intersection** 

1.5" Radius, 0.6" Border, 0.4" Indent, Black on, Orange; "Gardena", B 2K;

"Central", B 2K;

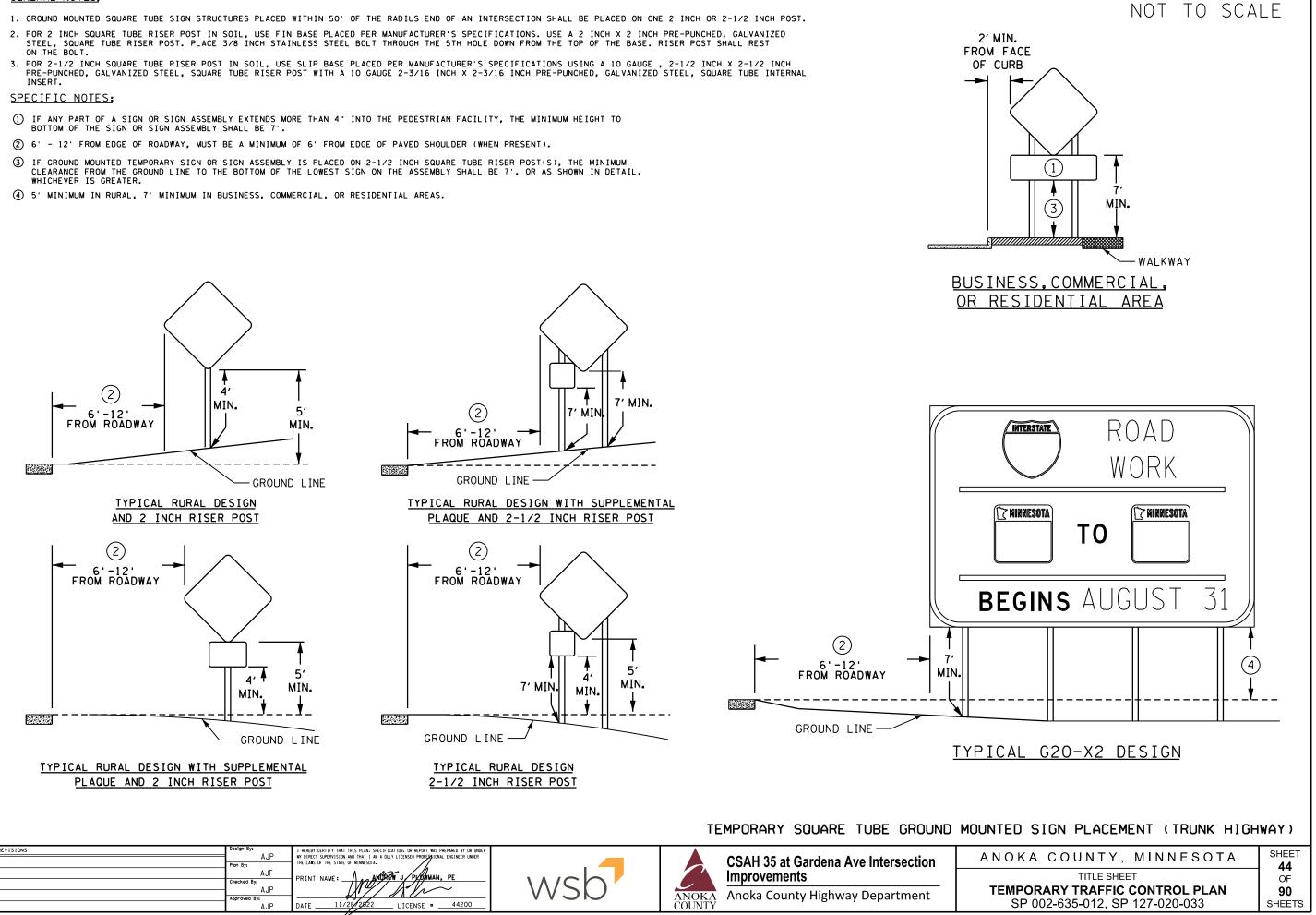
ALL DIMENSIONS IN INCHES

ANOKA COUNTY, MINNESOTA	SHEET <b>43</b>			
TITLE SHEET TEMPORARY TRAFFIC CONTROL PLAN				
SP 002-635-012, SP 127-020-033	SHEETS			

## GENERAL NOTES;

- STEEL, SQUARE TUBE RISER POST. PLACE 3/8 INCH STAINLESS STEEL BOLT THROUGH THE 5TH HOLE DOWN FROM THE TOP OF THE BASE. RISER POST SHALL REST ON THE BOLT.

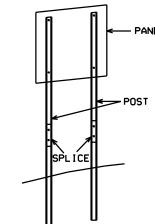
- BOTTOM OF THE SIGN OR SIGN ASSEMBLY SHALL BE 7'.
- WHICHEVER IS GREATER.

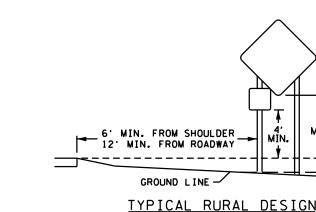


•	DATE	BY	Снк	REVISIONS	Design By: A IP	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER			
					Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave
					AJF	PRINT NAME: A ANDREW J PLOWMAN, PE			Improvements
					Checked By:		$\Lambda \Lambda / C Y \Lambda /$		
					AJP			ANOKA	Anoka County Highway
					Approved By:	N//			Anoka County Inghway
					AJP	DATE11/28/2822 LICENSE #44200		COUNTY	

ATH &	Ρ	UBL I	SHE	D BY OTE 04/24/2020			NCHRP	350	COMPLIANT	GROUND MOUNTED	D TEMPORARY S
1	NO.	DATE	ВҮ СНК	REVISIONS	Design By: A, IP	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER					
WS.					Plan By:	THE LAWS OF THE STATE OF MINNESOTA.		4		CSAH 35 at Garden	a Ave Intersection
					A JF Checked By:	PRINT NAME:ANDREW J_ PLONMAN, PE		$\sim$		Improvements	
					AJP		VVS	$\mathbf{J}$	ANOK	A Anoka County High	way Department
					Approved By: AJP	DATE		•	COUNT	Y	ina, bepartment
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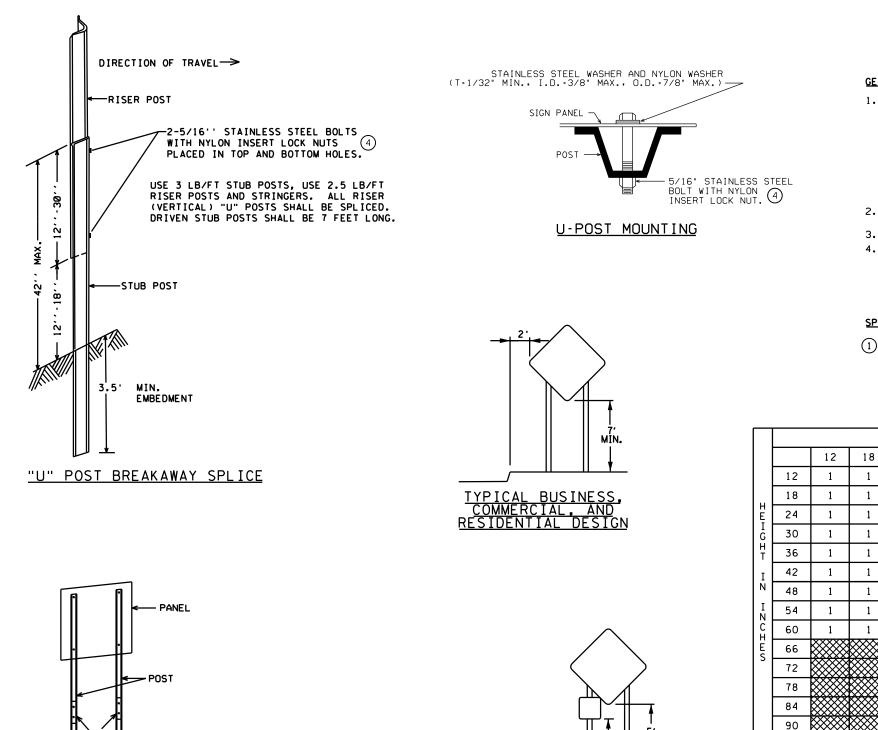




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GENERAL NOTES:

SPECIFIC NOTES:

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2/12

2/12

1. SIGNS TO BE PLACED ON DRIVEN U-POSTS SHALL BE PLACED IN ACCORDANCE WITH TABLE 1. IF THE TIC PLAN PLACES POST MOUNTED TEMPORARY SIGNS ADJACENT TO EXISTING STRUCTURES THERE SHALL BE NO MORE THAN TWO U-POST WITHIN 84 INCHES OF EACH OTHER ALIGNED IN THE SAME PLANE SO AS NOT TO COMPROMISE THAT STRUCTURE'S AND THE NEW DEVICE'S CRASHWORTHINESS. IF II IS NOT POSSIBLE TO MAINTAIN THIS SPACING THEN THE POST MOUNTED TEMPORARY SIGNS SHALL BE PLACED OFFSET, AND STAGGERED WITH A MIN OF 4' BETWEEN THE SIGN STRUCTURES. SIGN PANELS SHALL BE PLACED ON SIGN STRUCTURES TO MEET THE 5' MIN DEPICTED ON THE TYPICAL RURAL DESIGN DETAIL, AND THE 7' MIN DEPICTED ON THE TYPICAL BUSINESS, COMMERCIAL, OR RESIDENTIAL AREA DESIGN DETAIL ON THIS SHEET.

2. ANY SIGN PANEL LARGER THAN WHAT IS LISTED ON TABLE 1 SHALL BE INSTALLED ON SQUARE TUBE.

3. SEE MODOT STANDARD SIGNS AND MARKINGS MANUAL FOR PUNCHING HOLES. 4. A 48' X 48' WARNING SIGN INSTALLED ON TWO U-CHANNEL POSTS MAY BE SUPPLEMENTED WITH UP TO ONE 24" X 12" CARDINAL DIRECTION PLAQUE AND ONE 30" X 24" ROUTE MARKER, PROVIDED SUPPLEMENTAL SIGNS ARE MOUNTED IN THE UPPER TRAFFIC SIDE CORNER OF THE WARNING SIGN(S).

(1) FOR TEMPORARY CONSTRUCTION SIGN FRAMING, THE CONTRACTOR MAY USE GRADE 5 ZINC PLATED BOLTS IN LIEU OF STAINLESS STEEL BOLTS FOR ALL BOLTED CONNECTIONS

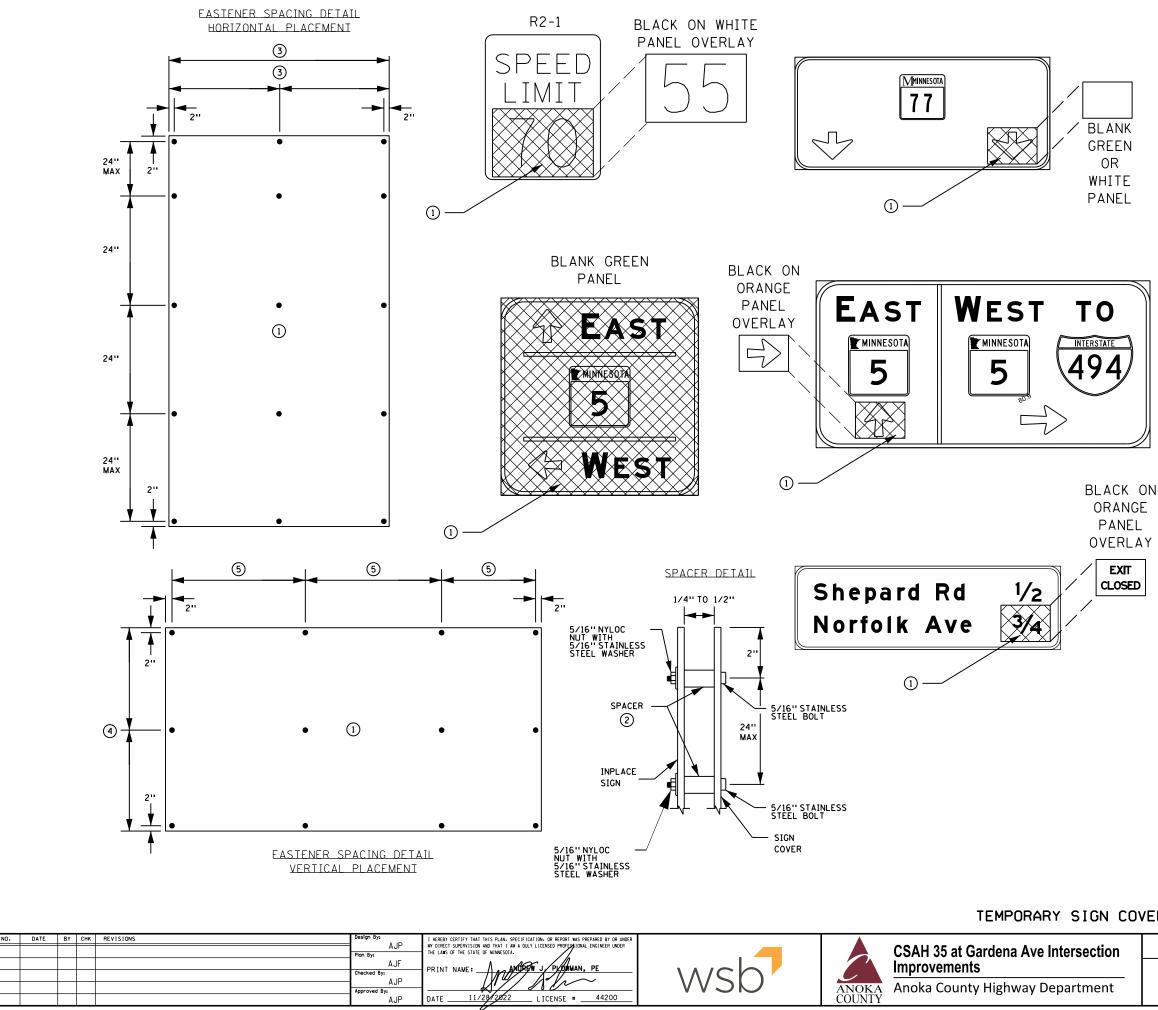
TABLE 1

	WIDTH	I IN II	NCHES						
36	42	48	54	60	66	72	78	84	90
1	1	1	1	1	2/42	2/42	2/42	2/48	2/54
1	1	1	1	2/42	2/42	2/42	2/42	2/48	2/54
1	1	2/30	2/36	2/42	2/42	2/42	2/42	2/48	2/54
1	2/24	2/30	2/36	2/42	2/42	2/42	2/42	2/48	2/54
2/18	2/24	2/30	2/36	2/42	2/42	2/42			
2/18	2/24	2/30	2/36	2/42	2/42				
2/18	2/24	2/30	2/36	2/42					
2/18	2/24	2/30							
2/18	2/24								
2/18									
NUMBER	R OF P	OST(S)	/SPAC	ING					
	REQI	URES S	QUARE	TUBE	POSTS				

SIGN INSTALLATION DETAILS (TRUNK HIGHWAY)

	ANOKA COUNTY, MINNESOTA	SHEET 45
_	DETAILS TEMPORARY TRAFFIC CONTROL PLAN SP 002-635-012, SP 127-020-033	OF 90 SHEETS





## GENERAL NOTES:

- 1 SIGN COVER PANELS ARE USED TO COVER AN ENTIRE INPLACE SIGN PANEL OR A PORTION THEREOF TO REMOVE OR MODIFY THE SIGN MESSAGE. THEY HAVE NO ADDITIONAL MESSAGE PRINTED ON THEM. SIGN COVER PANELS SHALL BE MADE OF A RIGID MATERIAL (SHEET ALUMINUM. PLYWOOD. CORRUGATED PLASTIC. OR OTHER MATERIAL AS APPROVED BY THE ENGINEER). SIGN COVER PANELS SHALL BE THE SAME COLOR AS THE BACKGROUND COLOR OF THE INPLACE SIGN PANEL AND SHALL COVER THE ENTIRE SIGN PANEL OR MESSAGE ELEMENT.
- 2. SIGN PANEL OVERLAYS ARE USED TO MODIFY THE MESSAGE OF AN INPLACE SIGN PANEL. THEY INCLUDE A SIGN MESSAGE. SIGN PANEL OVERLAYS SHALL BE MADE OF SHEET ALUMINUM WITH THE APPROPRIATE SHEETING MATERIAL AS SPECIFIED ON THE MNDOT SHEETING FOR RIGID PERMANENT SIGNS, DELINEATORS, AND MARKERS APL OR THE MNDOT SHEETING FOR RIGID TEMPORARY WORK ZONE SIGNS APL. SIGN PANEL OVERLAY MESSAGES SHALL BE BLACK ON FLUORESCENT ORANGE, EXCEPT ON REGULATORY SIGNS WHICH SHALL BE THE PROPER COLOR ON A WHITE BACKGROUND. THE MESSAGE SHALL FOLLOW THE REQUIREMENTS OF THE MNDOT STANDARD SIGNS AND MARKINGS MANUAL OR THE FHWA STANDARD HIGHWAY SIGNS MANUAL (AND SUPPLEMENTS). THE SIGN PANEL OVERLAY SHALL FULLY COVER THE MESSAGE ELEMENT(S) BEING MODIFIED.
- MINIMIZE DAMAGE TO THE INPLACE SIGN PANEL. DO NOT APPLY TAPE TO THE INPLACE SIGN SHEETING.
- SPACERS SHALL BE A MATERIAL THAT WILL NOT HARM THE INPLACE SIGN SHEETING FACE (SUCH AS PLASTIC OR RUBBER). 5.
- ATTACH SIGN COVER PANEL OR PANEL OVERLAY USING HARDWARE SHOWN IN THE SPACER DETAIL. IF SHEET METAL SCREWS ARE USED TO PLACE CORRUGATED 6.
- PLASTIC AS A SIGN COVER PANEL, PLACE FENDER WASHERS BETWEEN THE SCREW HEADS AND THE CORRUGATED PLASTIC. REMOVE ALL COVERING MATERIAL, MOUNTING HARDWARE, AND 7. FASTENERS WHEN SIGN COVER PANEL OR PANEL OVERLAY IS
- REMOVED. NO HANDLE OR OTHER LIFTING DEVICE SHALL BE LEFT ATTACHED 8. TO ANY SIGN COVER PANEL AFTER PLACEMENT.

## SPECIFIC NOTES:

- (1) THE SIGN COVER PANEL OR PANEL OVERLAY SHALL FULLY COVER THE MESSAGE BEING COVERED OR MODIFIED.
- (2) INSTALL SIGN COVER PANELS AND PANEL OVERLAYS WITH SPACERS THAT PROVIDE A SPACING OF 1/4 IN TO 1/2 IN BETWEEN THE COVER MATERIAL AND THE INPLACE SIGN. THE SPACERS SHALL HAVE AN OUTSIDE DIAMETER BETWEEN 3/8 IN TO 7/8 IN. EACH FASTENER REQUIRES A SPACER.
- (3) IF THE SIGN COVER PANEL OR PANEL OVERLAY IS GREATER THAN 48 IN WIDE, THE FASTENER SPACING SHALL BE NO GREATER THAN 24 IN. IF THE SIGN COVER PANEL OR PANEL OVERLAY IS LESS THAN 24 IN WIDE, DO NOT INSTALL A CENTER FASTENER (UNLESS REQUIRED BY SPECIFIC NOTE (4). (4) VERTICAL SPACING FOR FASTENERS IS 50% OF THE SIGN
- COVER PANEL OR PANEL OVERLAY. IF THE SIGN COVER PANEL OR PANEL OVERLAY IS LESS THAN 24 IN HIGH, DO NOT INSTALL A CENTER FASTENER (UNLESS REQUIRED PER SPECIFIC NOTE (5)). (5) HORIZONTAL SPACING FOR FASTENERS SHALL NOT BE LESS THAN 15 IN NOR MORE THAN 24 IN.

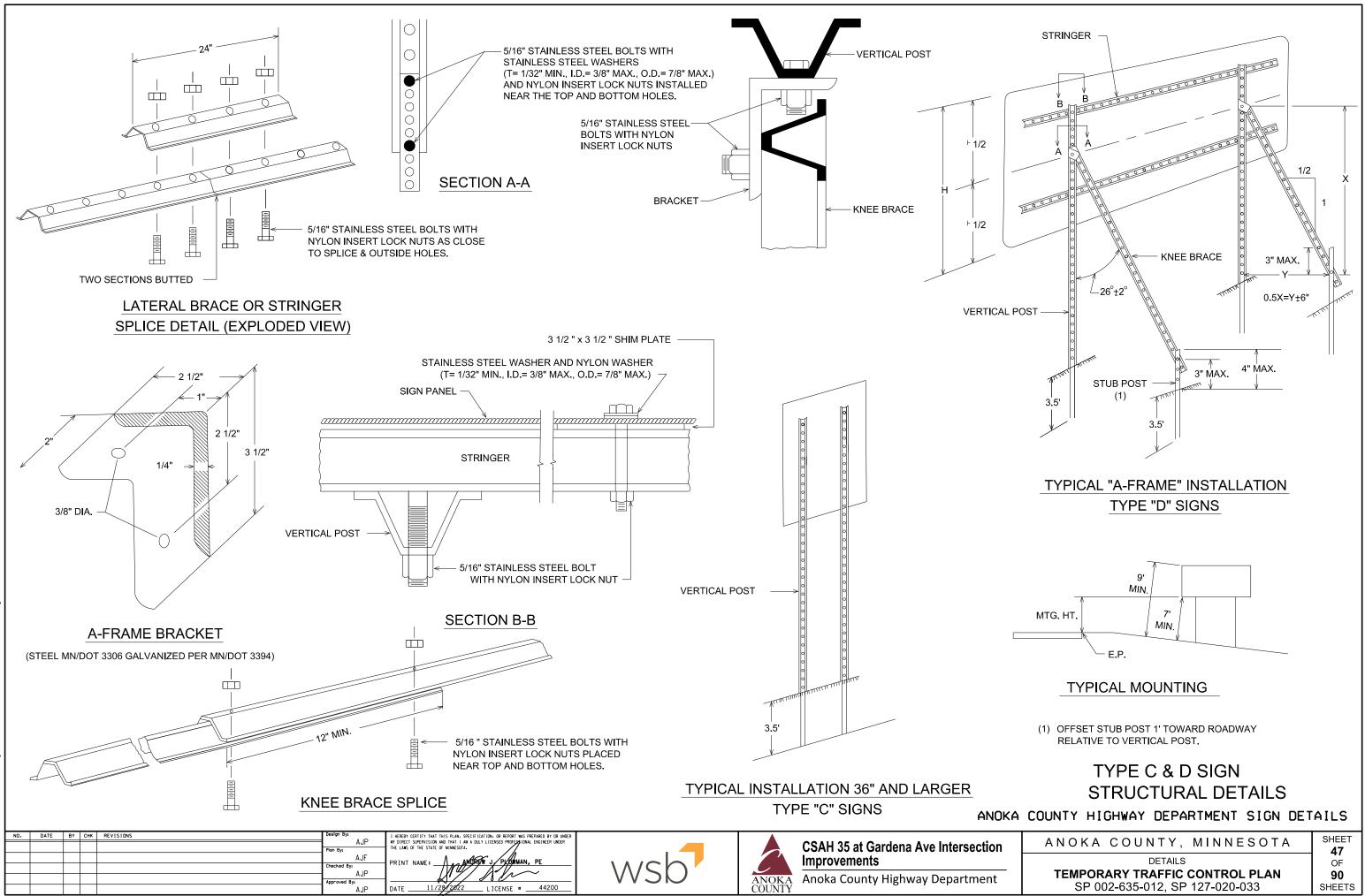
## ASSEMBLY STEPS

- DRILL 11/32 IN HOLES ON THE SIGN COVER PANEL OR PANEL
- OVERLAY IN ACCORDANCE WITH THE FASTENER SPACING DETAILS. 2. ATTACH PLASTIC SPACERS TO SIGN COVER PANEL OR PANEL OVERLAY WITH DOUBLE FACED TAPE, CENTERED BEHIND EACH
- DRILLED HOLE. POSITION THE COVER OR OVERLAY MATERIAL OVER THE SIGN OR 3. MESSAGE TO BE MODIFIED.
- DRILL ALL THE OUTSIDE HOLES THROUGH THE INPLACE SIGN PANEL AND ATTACH THE COVER OR OVERLAY MATERIAL WITH APPROPRIATE FASTENERS.
- DRILL ALL THE INNER HOLES THROUGH THE INPLACE SIGN PANEL 5. AND ATTACH WITH APPROPRIATE FASTENERS.

TEMPORARY SIGN COVERING AND MODIFICATION (TRUNK HIGHWAY)

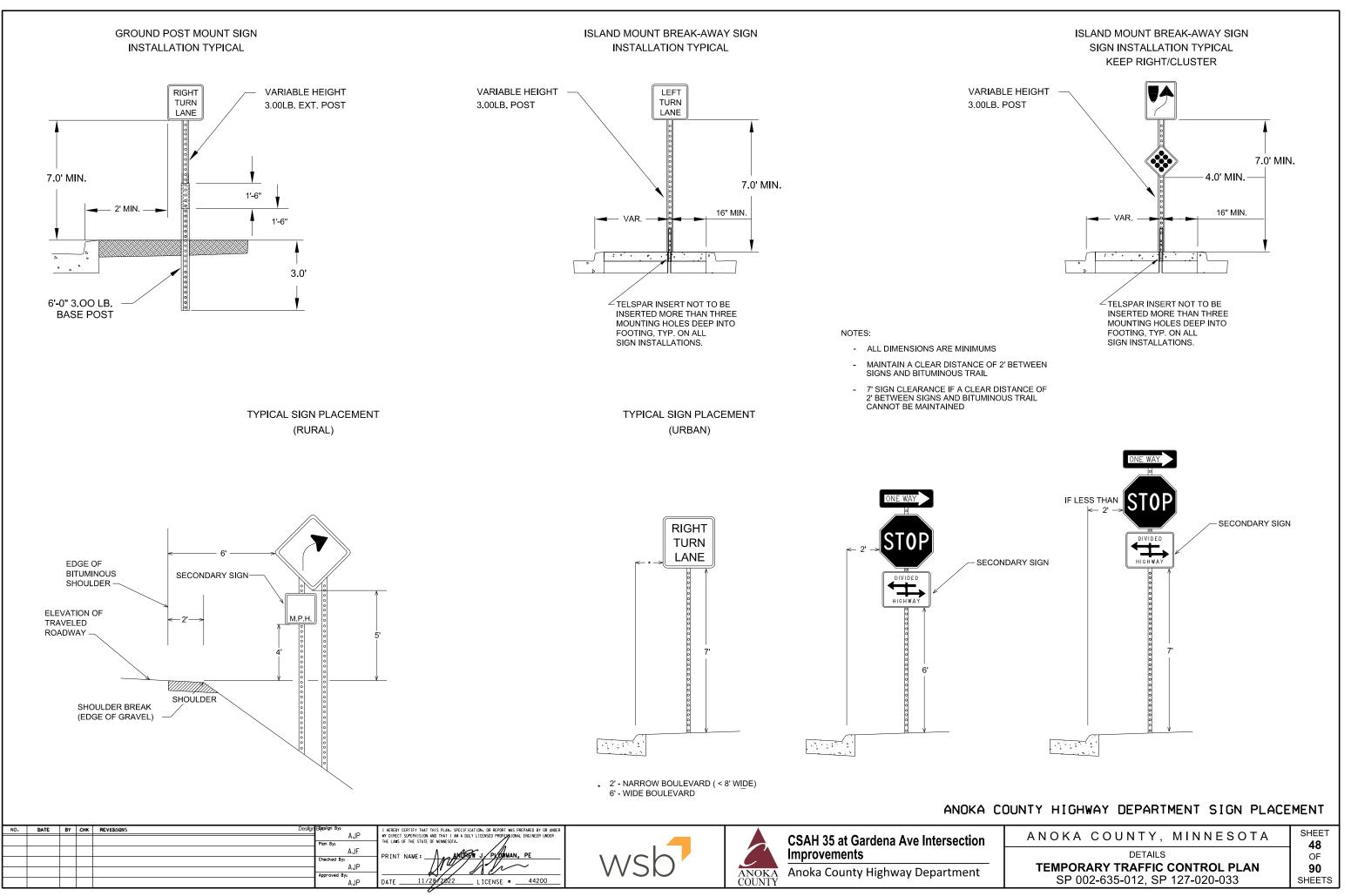
ANOKA COUNTY, MINNESOTA	SHEET <b>46</b>
DETAILS TEMPORARY TRAFFIC CONTROL PLAN SP 002-635-012, SP 127-020-033	OF 90 SHEETS
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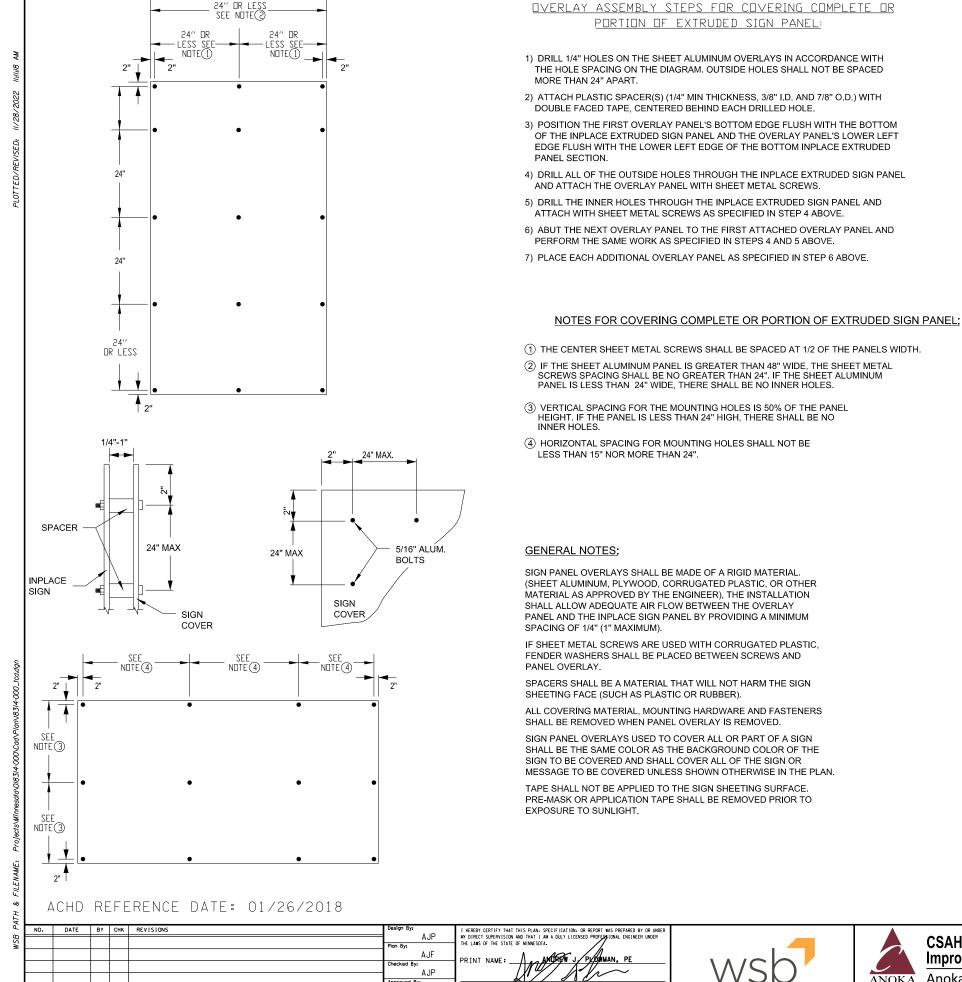


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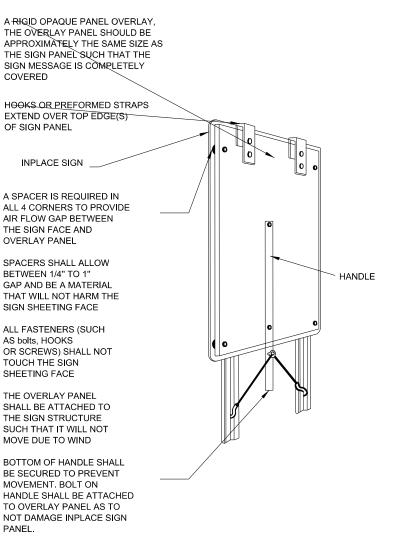
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SAH 35 at Gardena Ave Intersection provements

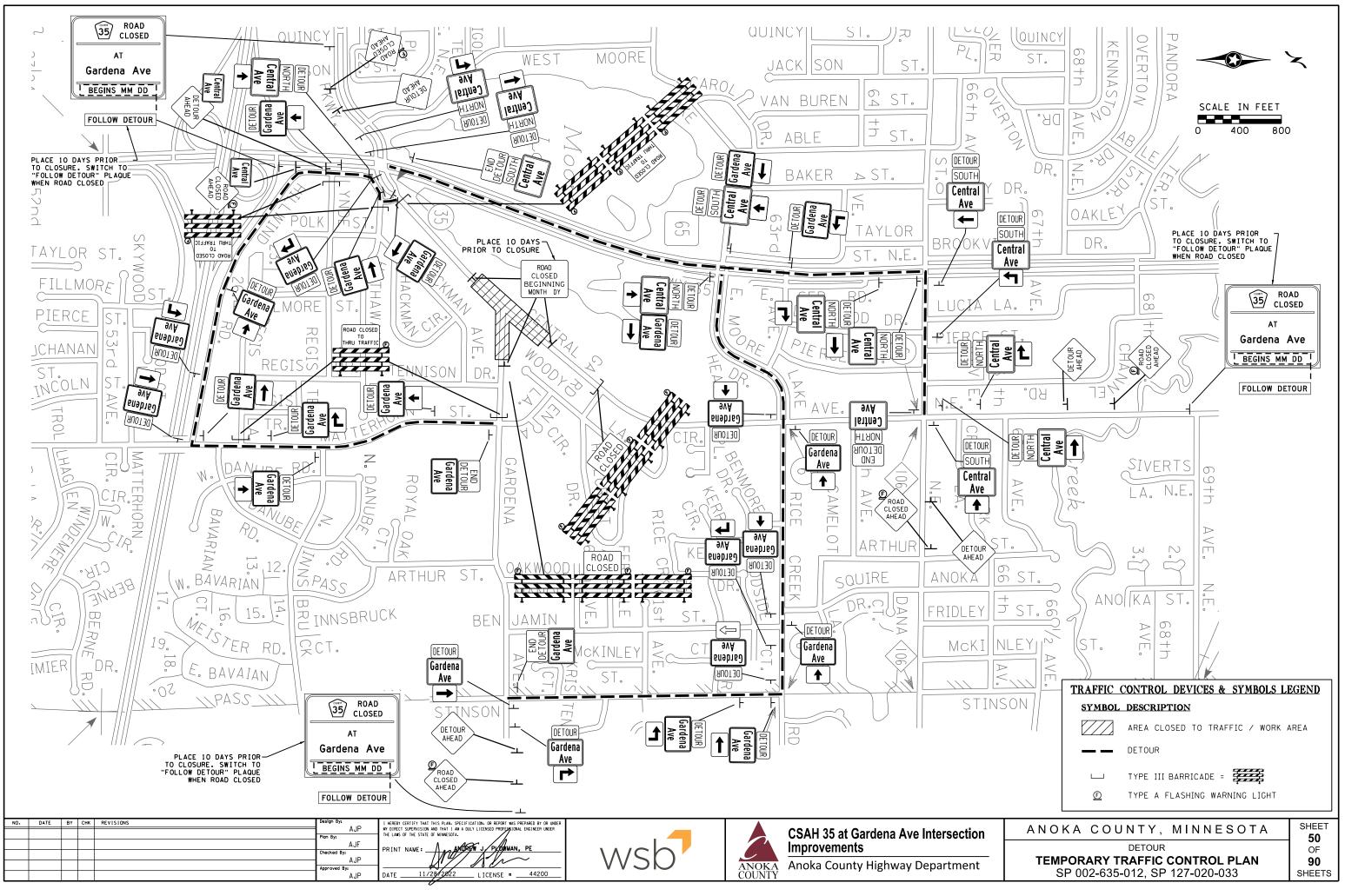
ANOKA COUNTY Anoka County Highway Department

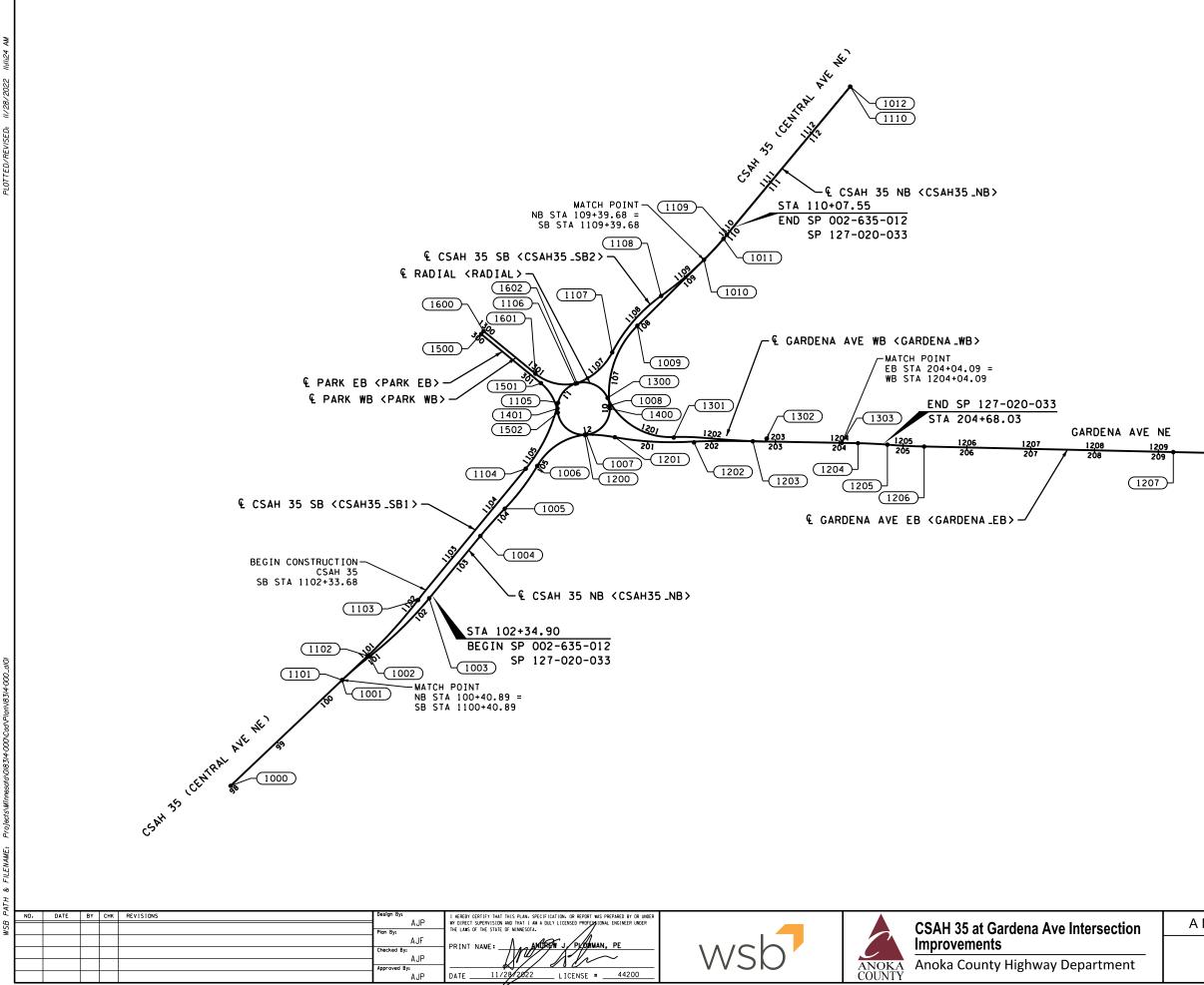
## OVERLAY ASSEMBLY COVERING TYPE C OR D SIGN PANEL:



# ANOKA COUNTY HIGHWAY DEPARTMENT TEMPORARY SIGN COVERING

	ANOKA COUNTY, MINNESOTA	SHEET <b>49</b>
-	DETAILS TEMPORARY TRAFFIC CONTROL PLAN	OF
	SP 002-635-012, SP 127-020-033	90 SHEETS







HORIZONTAL CONTROL FOR THIS PLAN IS ANOKA COUNTY COORDINATE SYSTEM, NAD 83 (2011 ADJUSTMENT)

ELEVATIONS FOR THIS PLAN ARE BASED ON NGVD 88 DATUM

LEGEND

XXXX POINT NUMBER (DETAILS FOUND ON ALIGNMENT TABULATION SHEETS) NOTE: SEE SHEET 64 FOR QUADRANT ALIGNMENT TABULATION.

ANOKA COUNTY, MINNESOTA	SHEET 51
ALIGNMENT PLAN & TABULATION SP 002-635-012, SP 127-020-033	OF 90 SHEETS

		ALI	GNMENT T	ABULAT	ION								ALI	GNMENT T	ABULAT	ION				
	NT STATION						COORDI	NATES	BEARING	POINT	POINT	STATION		-				COORDI	NATES	BEARING
NUMBER	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	DEARING	NUMBEF	R	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	DEANING
	CSAH 35 NB <0	SAH35_NB	>									CSAH 35 SB <cs< td=""><td>SAH35_SB</td><td>1 &gt;</td><td></td><td></td><td></td><td></td><td></td><td></td></cs<>	SAH35_SB	1 >						
1000 P0	98+00.00						505,833.897	113,916.612		1100	POT	1100+40.89						506,008.714	114,082.337	
1001 PC	C 100+40.886						506,008.714	114,082.337	N 46° 31' 46.3" E	1101	PC	1100+95.838						506,048.595	114,120,143	N 46° 31' 46.
PI	I 100+69.123	5° 23' 20.4" RT	9* 32* 57.5"	600.000	28.237'	56.433'	506,029.207	114,101.764	PI		PI	1101+54.931	9° 00' 36.5" LT	7* 38' 22.0"	750.000'	59.093'	117.943'	506,091.480	114,160.798	PI
CC	C						506,421.503	113,646.900			CC							505,532.609	114,664,439	
1002 PR	C 100+97.319						506,051.434	114,119,180	N 51° 55' 06.6" E	1102	PRC	1102+13.780						506,127,470	114,207.667	N 37° 31' 09.
PR	C 100+97.319						506,051.434	114,119.180	N 51° 55' 06.6" E		PRC	1102+13.780						506,127,470	114,207.667	N 37° 31' 09.
PI	I 101+63.030	12° 30' 00.2" LT	9* 32' 57.5"	600.000	65.711'	130.900'	506,103.157	114,159.709	PI		PI	1102+23.733	1° 53' 56.7" RT	9° 32' 28.8"	600.500'	9.953	19.904	506,133.531	114,215.561	PI
CC	C						505,681.365	114,591.461			CC							506,603.755	113,841.945	
1003 PT	T 102+28.219						506,144.882	114,210,473	N 39° 25' 06.4" E	1103	PT	1102+33.684						506,139.851	114,223,250	N 39° 25' 06
1004 PC	C 103+54.539						506,225.093	114,308.059	N 39° 25' 06.4" E	1104	PC	1104+79.881						506,296.181	114,413,445	N 39° 25' 06
PI	I 103+83.205	4° 41' 24.6" RT	8* 11' 06.4"	700.000'	28.667'	57.301'	506,243.295	114,330.204	PI		PI	1105+39.008	26° 36' 45.4" LT	22* 55' 05.9"	250.000	59.127	116.119	506,333.725	114,459,122	PI
CC	c 🔤						506,765.863	113,863,573			20							506,103.049	114,572,189	
1005 PR	C 104+11.840						506,263.248	114,350.788	N 44º 06' 31.0" E	1105	PT	1105+96.001						506,346.831	114,516,777	N 12° 48' 21.0
PR	C 104+11.840						506,263.248	114,350,788	N 44° 06' 31.0" E	]		CSAH 35 SB <cs< td=""><td></td><td>21</td><td></td><td></td><td></td><td></td><td></td><td></td></cs<>		21						
PI	I 104+54.219	13° 48' 28.4" LT	16* 22" 12.8"	350.000'	42.379'	84.348'	506,292.745	114,381.217	PI			CSAH JO SB CCS		2/						
CC	C						506,011.940	114,594.395		1106	PC	1106+56.177						506,373.998	114,546.636	N 71° 47' 22.
1006 PR	C 104+96.188						506,314.126	114,417.806	N 30° 18' 02.6" E		PI	1106+97.023	44• 26'06.7" LT	57• 17' 44.8"	100.000'	40.845'	77.554'	506,412.798	114,559.401	PI
PR	C 104+96.188						506,314.126	114,417.806	N 30° 18' 02.6" E		CC							506,342.747	114,641.628	
PI	I 105+47.296	54° 08' 31.0" RT	57* 17' 44.8"	100.000'	51.109'	94.496'	506,339.913	114,461.933	PI	1107	PRC	1107+33.732						506,431.566	114,595.679	N 27º 21' 15.
CC	с						506,400.465	114,367.353			PRC	1107+33.732						506,431.566	114,595.679	N 27º 21' 15.5
1007 PR	IO5+90.683						506,390.781	114,466.883	N 84° 26' 33.6" E		PI	1107+93.933	27• 04' 43.3" RT	22 • 55' 05.9"	250.000	60.201	118.153'	506,459.228	114,649.149	PI
PR	IO5+90.683						506,390.781	114,466.883	N 84° 26' 33.6" E		CC							506,653.611	114,480.806	
PI	I 106+32.687	91° 23' 09.1" LT	139" 44" 44.9"	41.000'	42.004'	65.394'	506,432.588	114,470.950	PI	1108	PRC	1108+51.885						506,508.198	114,684.165	N 54° 25' 58.
CC	с						506,386.811	114,507.690			PRC	1108+51.885						506,508.198	114,684.165	N 54° 25' 58.
1008 PR	C 106+56.078						506,427.510	114,512.646	N 6° 56' 35.6" W		PI	1109+22.766	14• 41'13.4" LT	10+ 25' 02.7"	550.000	70.881'	140.986'	506,565.855	114,725.393	PI
PR	IC 106+56.078						506,427,510	114,512.646	N 6° 56' 35.6" W		CC							506,188.288	115,131.555	
PI	I 107+29.610	52° 13' 47.5" RT	38* 11' 49.9"	150.000'	73.533'	136.737'	506,418.621	114,585.640	PI	1109	PT	1109+92.870						506,611.176	114,779.893	N 39° 44' 45.
CC							506,576,410	114,530,779		1110	POT	1112+94.80						506,804.224	115,012.042	
1009 PT							506,470.876		N 45° 17' 11.9" E											
1010 PC	C 109+39.684						506,575.246													
PI	I 109+66.298	5° 32' 26.4" LT	10* 25* 02.7*	550.000'	26.614'	53.187'	506,594.159	114,759.430	PI											
CC							506,188.288	115,131.555												
1011 PT	T 109+92.870						506,611.176	114,779.893	N 39° 44' 45.5" E											
1012 PO	)T 112+94.80						506,804.224	115,012.042												

ATI										
٩.	NO.	DATE	BY C	нк	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER			
NSB						AJP Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
_						Δ.IF	PRINT NAME: A ANDREW J. PLOWMAN, PE			Improvements
						Checked By:				improvementa
						AJP Approved By:		VVSN	ANOKA	Anoka County Highway Department
						AJP	DATE	_	COUNTY	, , , , ,
	-						0			

SEE SHEET 64 FOR QUADRANT ALIGNMENTS.

<xxxx> INDICATES GEOPAK ALIGNMENT NAMES.

NOTES:

ANOKA COUNTY, MINNESOTA ALIGNMENT PLAN & TABULATION SP 002-635-012, SP 127-020-033

SHEET 52 OF 90 SHEETS

			ALI	GNMENT T	ABULAT	ION								ALIG	SNMENT T	ABULATI	[ON				
POINT		STATION						COORDI	NATES	BEARING	POINT	POINT	STATION						COORDI	NATES	BEARING
NUMBE	R	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	DEARING	NUMBER	PUINT	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	BEARING
	GARDENA AVE EB <gardena_eb></gardena_eb>												RADIAL <radial< td=""><td>_ &gt;</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></radial<>	_ >							
1200	PC	200+00.000						506,387.943	114,466.705	N 88º 25' 04.6" E		POT	9+00.00						506,427.811	114,407.690	
	PI	200+24.117	12° 30' 43.0" RT	26* 02' 36.7"	220.000	24.117'	48.042	506,412.051	114,467,371	PI	1400	PC	10+00.000						506,427,811	114,507.690	Due North
	CC							506,394.016	114,246.789			PI		180° 00' 00.0" LT	139* 44' 44.9"	41.000'		128.805'			PI
1201	PRC	200+48.042						506,435,730	114,462.798	S 79° 04' 12.3" E		CC							506,386.811	114,507.690	
	PRC	200+48.042						506,435.730	114,462.798	S 79° 04' 12.3" E	1401	PCC	11+28.805						506,345.811	114,507.690	Due South
	PI	201+10.621	14° 16' 03.6" LT	11° 27' 33.0"	500.000'	62.578'	124.509'	506,497,173	114,450.933	PI		PCC	11+28.805						506,345.811	114,507.690	Due South
	CC							506,530.534	114,953.728			PI		180° 00' 00.0" LT	139* 44' 44.9"	41.000'		128.805'			PI
1202	PRC	201+72.551						506,559.645	114,454.577	N 86° 39' 44.1" E		CC							506,386.811	114,507.690	
	PRC	201+72.551						506,559.645	114,454,577	N 86* 39' 44.1" E	1402	PT	12+57.611						506,427.811	114,507.690	Due North
	PI	202+18.601	4° 23' 42.9" RT	4* 46' 28.7"	1,200.000'	46.050'	92.054'	506,605.617	114,457.258	PI		POT	13+57.61						506,427.811	114,607.690	
	CC							506,629.511	113,256.612												
1203	PT	202+64.605						506,651.658	114,456.408	S 88* 56' 33.0" E	11		PARK EB <park< td=""><td>LED/</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></park<>	LED/							
1204	PC	204+29.400						506,816,425	114,453.366	S 88* 56' 33.0" E	1500	POT	300+00.00						506,226.319	114,624,402	
	PI	204+52.451	3° 31' 15.2" RT	7* 38* 22.0"	750.000'	23.051'	46.088'	506,839,473	114,452.941	PI	1501	PC	301+21.079						506,319.857	114,547,519	S 50° 34' 53.6" E
	CC							506,802.583	113,703,494			PI	301+49.569	41° 35' 58.6" RT	76* 23' 39.7"	75.000'	28.490'	54.454'	506,341.866	114,529,428	PI
1205	PRC	204+75.488						506,862,450	114,451.101	S 85° 25' 17.7" E		CC							506,272,233	114,489.579	
	PRC	204+75.488						506,862.450	114,451.101	S 85° 25' 17.7" E	1502	PT	301+75.533						506,346.314	114,501.288	S 8° 58' 54.9" E
	PI	205+04.312	3* 18' 07.3" LT	5* 43' 46.5"	1,000.000'	28.824'	57.631'	506,891.182	114,448.800	PI			PARK WB < PARK								
	CC							506,942.274	115,447.910				FARK WD YFARK								
1206	PT	205+33.120						506,919.998	114,448.158	S 88° 43' 25.0" E	1600	POT	1300+00.00						506,230.129	114,629.037	
1207	POT	209+23.40						507,310,179	114,439.465		1601	PC	1301+05.036						506,311.272	114,562.341	S 50° 34' 53.6" E
		GARDENA AVE V										PI	1301+42.710	53° 20' 35.1" LT	76° 23' 39.7"	75.000'	37.674'	69.826'	506,340.377	114,538.419	PI
		GANDENA AVE V								•		CC							506,358.896	114,620.281	
1300	PC	1200+11.697						506,423.866	114,525.237	S 25° 20' 19.8" E	1602	PT	1301+74.862						506,376,944	114,547,485	N 76° 04' 31.4" E
	PI	1200+86.858	68° 41' 18.0" LT	52* 05' 13.5"	110.000'	75.161'	131.872"	506,456.033	114,457.306	PI											
	CC							506,523.283	114,572,313												
1301	PRC	1201+43.569						506,531.009		N 85° 58' 22.2" E											
	PRC	1201+43.569						506,531.009	114,462.585	N 85° 58' 22.2" E											
	PI	1202+14.969	9° 36' 11.2" RT	6* 44' 26.4"	850.000'	71.400'	142.465'	506,602.232	114,467,599	PI											
	CC							506,590.704	113,614.684												
1302	PRC	1202+86.034						506,673.294	114,460.662	S 84° 25' 26.6" E											
	PRC	1202+86.034						506,673.294	114,460.662	S 84° 25' 26.6" E											
	PI	1203+45.093	4° 31' 06.4" LT	3* 49' 38.5"	1,497.000'	59.058'	118.056"	506,732.073	114,454.923	PI											
	CC							506,818,750	115,950.578												
1202	PT	1204+04.090						506,791.121		S 88* 56' 33.0" E	1										

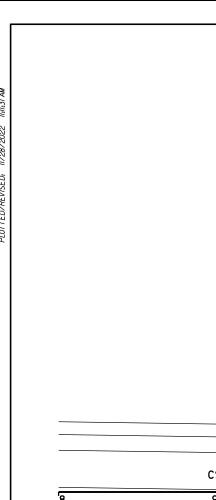
- AJ										
d'	NO.	DATE	BY (	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
VSB						Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
~						AJF	PRINT NAME: A ANDREW J PLOWMAN. PE			Improvements
						Checked By:	PRINT NAME:			Improvementa
						AJP Approved By:		VVSN	ANOKA	Anoka County Highway Department
						AJP	DATE11/28/2022 LICENSE #44200		COUNTY	, 8,
							V			

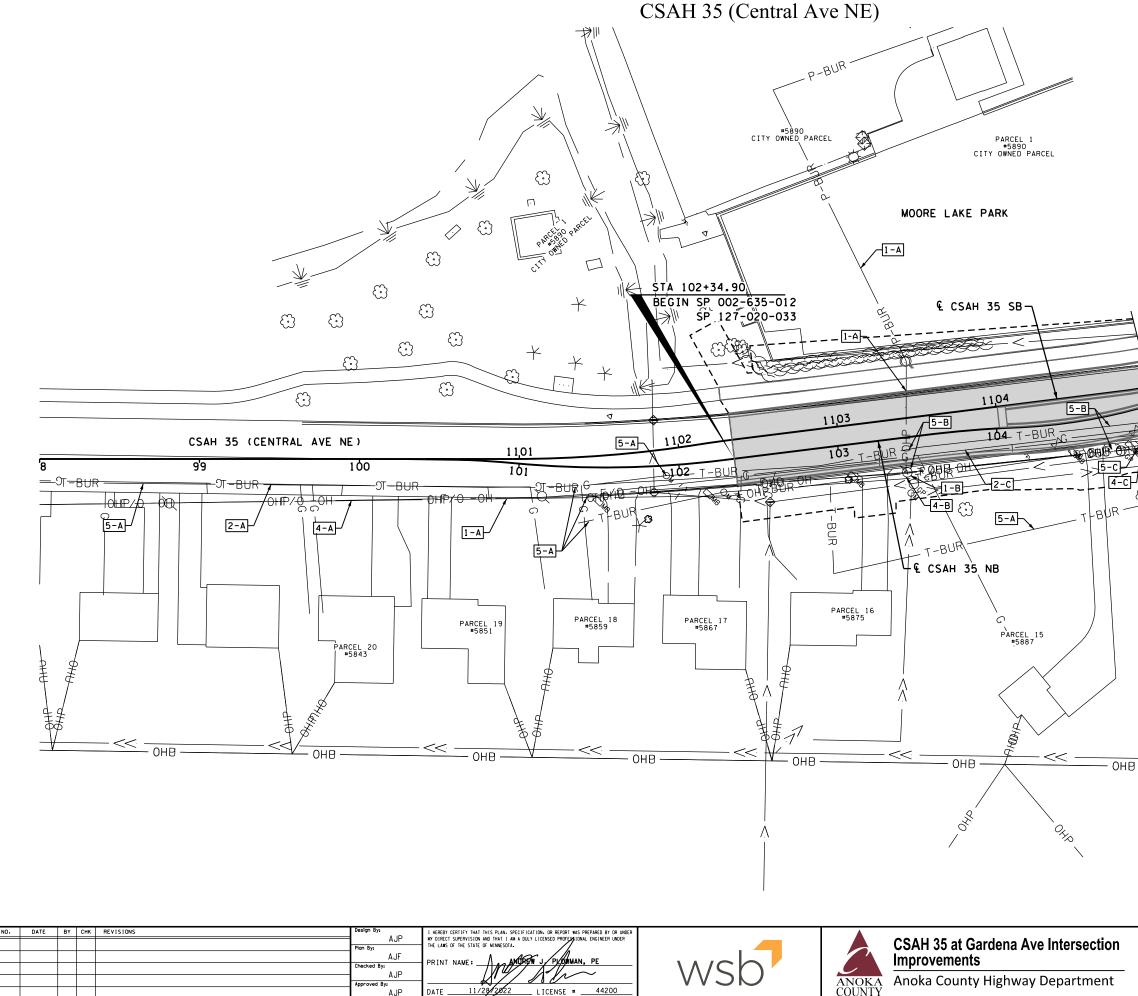
<XXXX> INDICATES GEOPAK ALIGNMENT NAMES.

SEE SHEET 64 FOR QUADRANT ALIGNMENTS.

ANOKA COUNTY, MINNESOTA	SHEET 53
ALIGNMENT PLAN & TABULATION SP 002-635-012, SP 127-020-033	0F 90 SHEETS

NOTES:





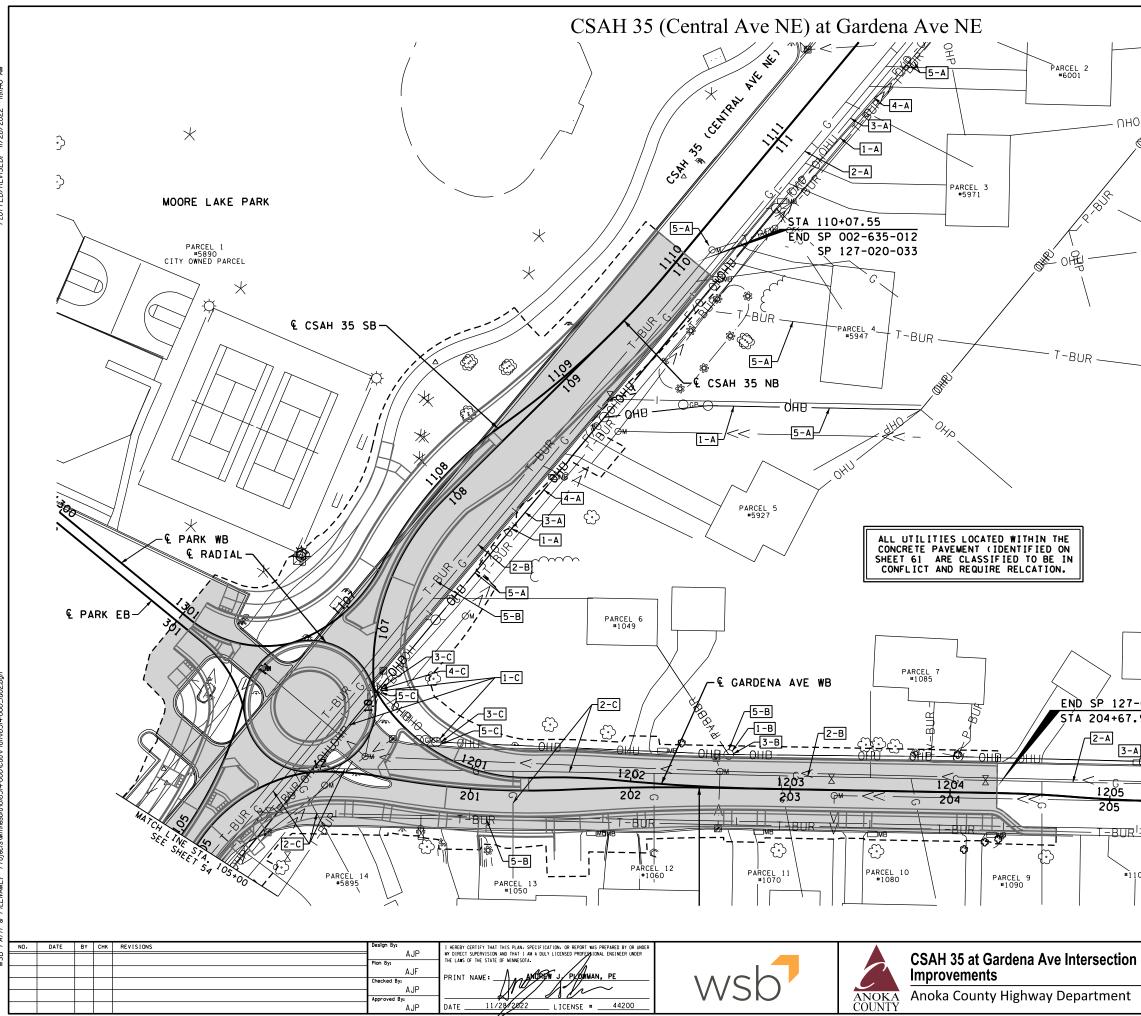
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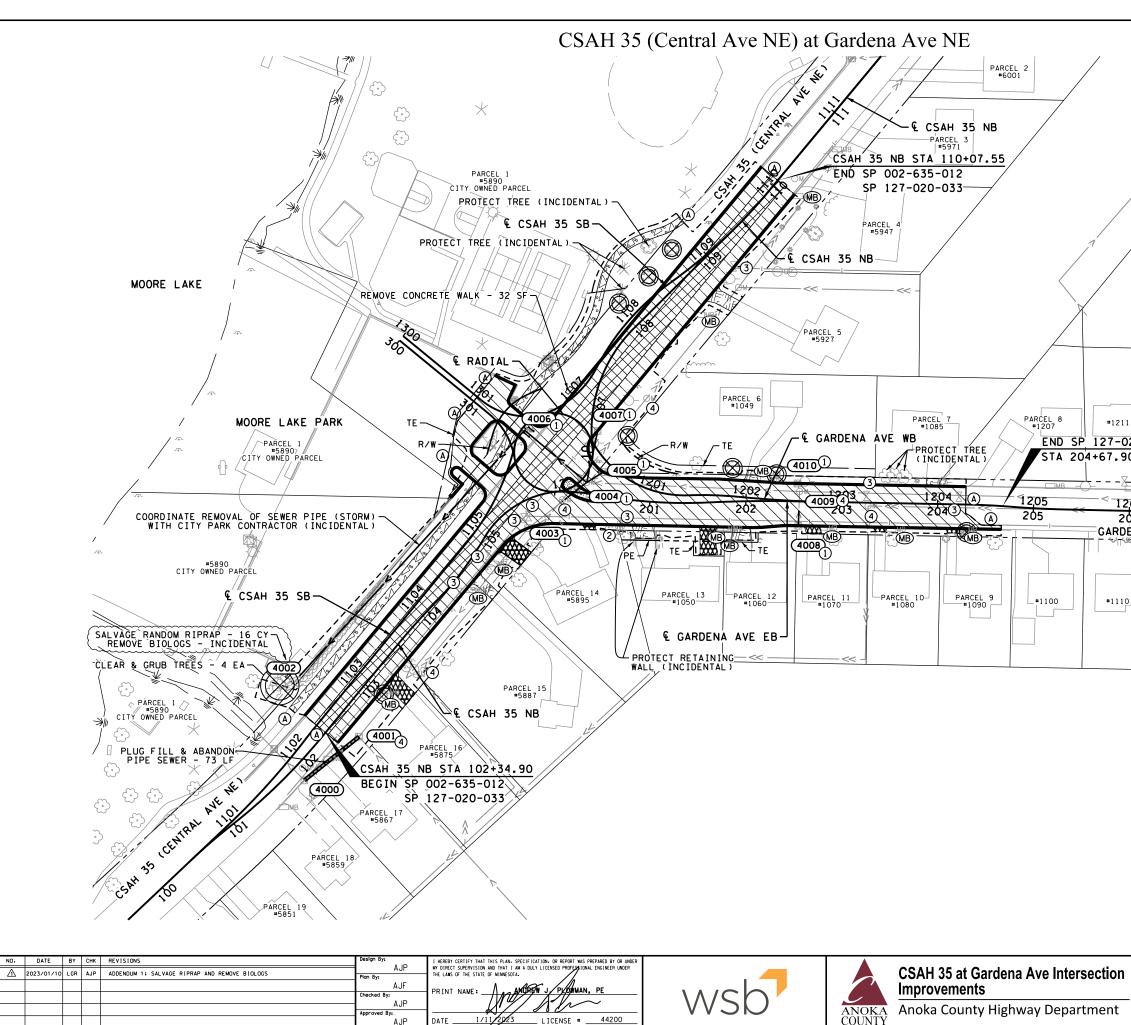
11/28/2022

\_\_\_\_\_LICENSE # \_\_\_\_\_44200

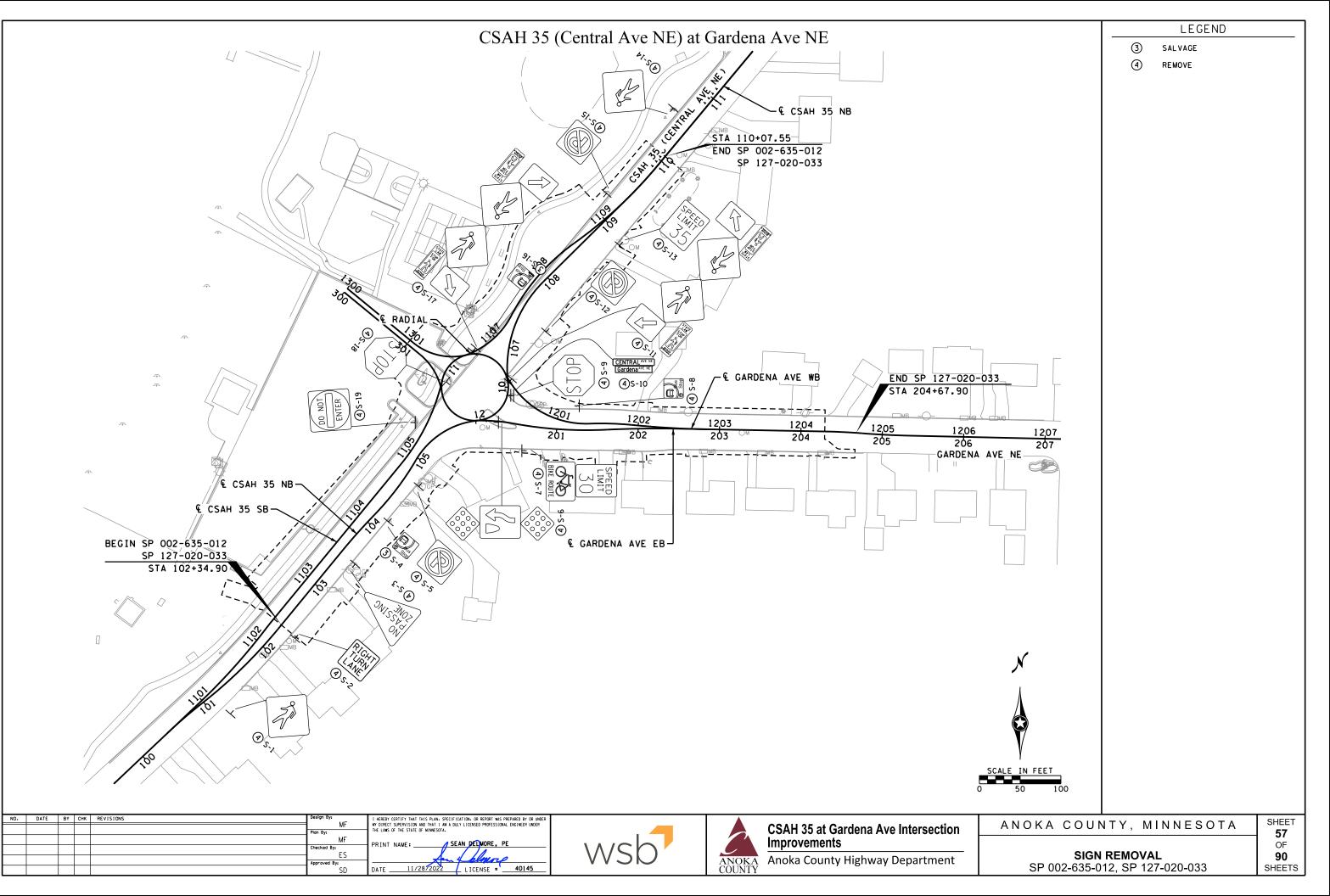
LEGEND — T-BUR — BURIED TELEPHONE LINE BURIED TELEVISION LINE — TV-BUR — OVERHEAD UTILITY LINE —— ОНИ —— BURIED FIBER OPTIC LINE — F / O - BUR — BURIED POWER LINE — P-BUR —— ----- UTILITY IN CONDUIT - OHP --- OVERHEAD POWER LINE · SIG-BUR -----BURIED SIGNAL LINE \_\_\_\_\_ (; \_\_\_\_\_ BURIED GAS MAIN/SERVICE --- >>> SANITARY SEWER LINE STORM SEWER LINE -->----FORCE MAIN WATER MAIN UTILITY PEDESTAL  $\square$ HANDHOLE POWER/UTILITY POLE LIGHT POLE CABINET VALVE (GAS) MANHOLE CATCH BASIN CONCRETE APRON HYDRANT VALVE (WATER) ∞\*⊙ VALVE (GAS) VEGETATION INPLACE STRUCTURE <u>\_</u> EXISTING GUARD RAIL ⊛— P —⊛-EXISTING WATER EDGE \_≝\_\_\_ ^\_\_∧\_ BOLLARD RETAINING WALL \_\_\_\_\_ NOISE WALL - XC -EXISTING FENCE CONSTRUCTION LIMITS AREA OF ENVIRONMENTAL SENSITIVITY INPLACE RIGHT-OF-WAY - \_ \_\_\_ PROPOSED RIGHT-OF-WAY TEMPORARY EASEMENT PERMANENT EASEMENT \_ \_ \_\_\_ - -----ූ EXISTING PAVEMENT TO BE REMOVED UTILITY CONFLICT AREA (OWNER-IMPACT) <u>\_1-A</u> OWNERSHIP: (1) XCEL ENERGY
(2) CEBTERPOINT ENERGY
(3) COMCAST CABLE LLC / PARCEL 14 #5895 (4) AT&T (5) LUMEN TECHNOLOGIES IMPACT: (A) LEAVE AS IS (B) ADJUST (C) RELOCATE (D) REMOVE <<GENERAL NOTES 1. THE EXISTING SUBSURFACE UTILITY INFORMATION IS QUALITY LEVEL D IN ACCORDANCE WITH THE GUIDELINES OF CI/ASCE 38-02. 2. UTILITIES ARE SHOWN AT APPROXIMATE LOCATIONS. THE CONTRACTOR SHALL DETERMINE THE ACTUAL LOCATION OF ALL BURIED UTILITIES IN THE FIELD SCALE IN FEET (INCIDENTAL). SHEET ANOKA COUNTY, MINNESOTA 54 NB STA 102+34.90 TO NB STA 105+00 OF **INPLACE TOPOGRAPHY & UTILITIES** 90 SP 002-635-012, SP 127-020-033 SHEETS

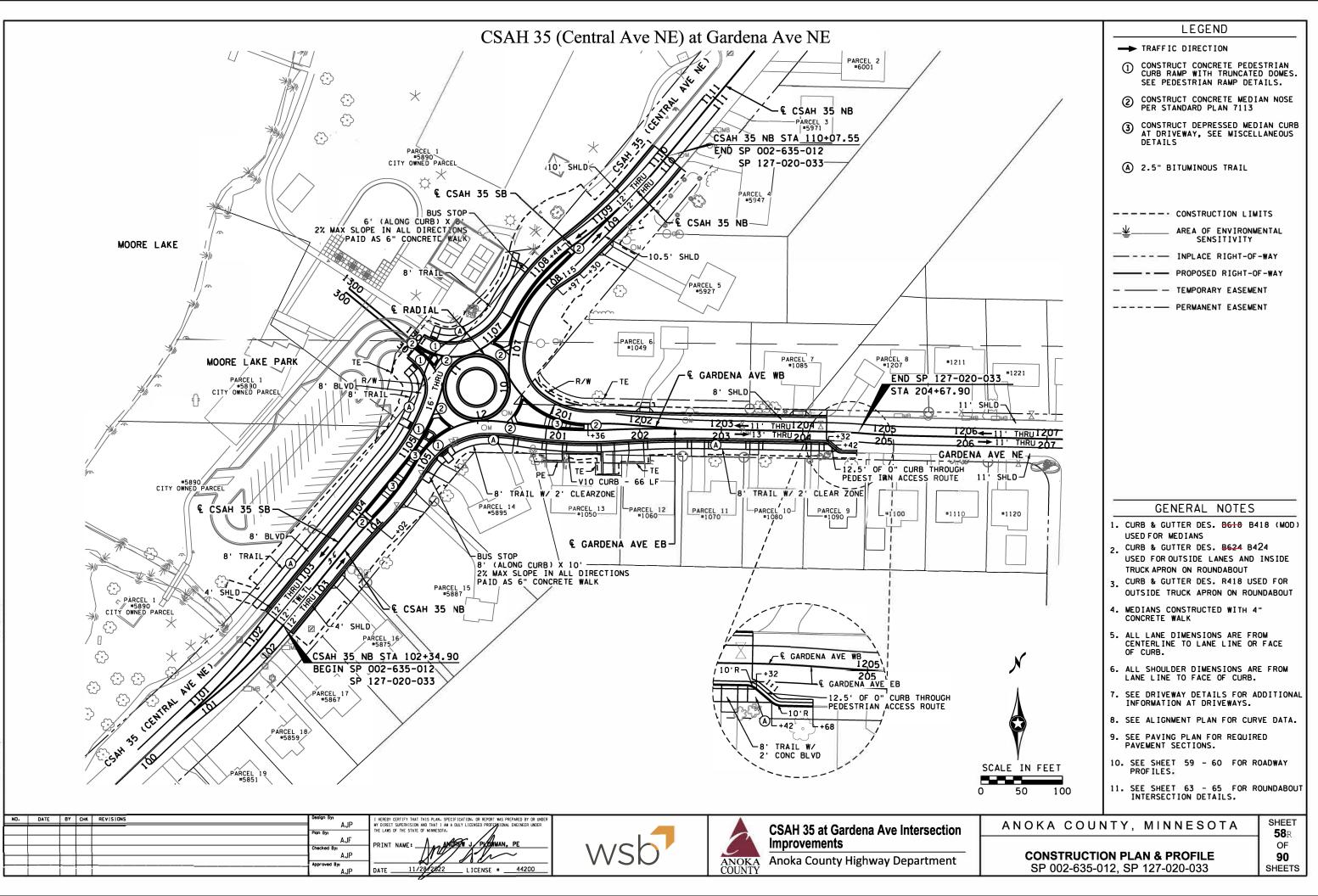


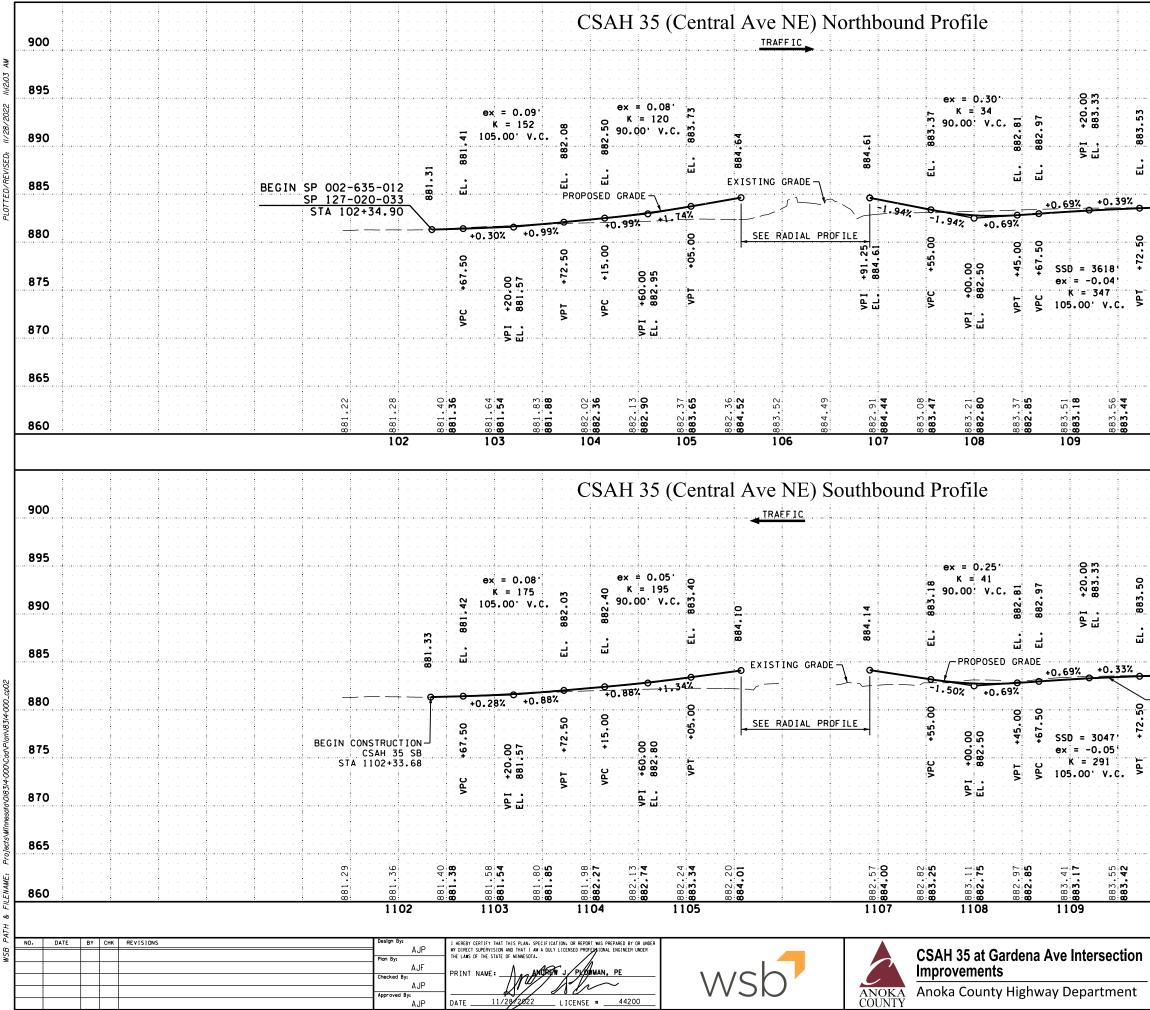
		LEGEND	
	— T-BUR — — TV-BUR — — OHU — — F/O -BUR — — P-BUR —	BURIED TELEPHONE LI BURIED TELEVISION L OVERHEAD UTILITY LI BURIED FIBER OPTIC BURIED POWER LINE	INE NE
O - OHA B		UTILITY IN CONDUIT OVERHEAD POWER LIN BURIED SIGNAL LINE BURIED GAS MAIN/SEI SANITARY SEWER LINE FORCE MAIN WATER MAIN	RVICE
	H → → → → → → → → → → → → →	UTILITY PEDESTAL HANDHOLE POWER/UTILITY POLE LIGHT POLE CABINET VALVE (GAS) MANHOLE CATCH BASIN CONCRETE APRON HYDRANT VALVE (WATER) VALVE (GAS) VEGETATION INPLACE STRUCTURE EXISTING GUARD RAIL EXISTING WATER EDGI BOLLARD RETAINING WALL NOISE WALL EXISTING FENCE CONSTRUCTION LIM AREA OF ENVIRONM	ITS
SCALE IN FEET		SENSITIVITY INPLACE RIGHT-OF PROPOSED RIGHT-O TEMPORARY EASEME PERMANENT EASEME EXISTING PAVEMEN BE REMOVED UTILITY CONFLICT (OWNER-IMPACT)	F-WAY NT NT T TO
PARCE[ 8 = 1211 =1207 -020-033⊇	OWNERSHIP: (1) XCEL ENE (2) CEBTERPO (3) COMCAST (4) AT&T (5) LUMEN TE IMPACT: (A) LEAVE AS (B) ADJUST (C) RELOCATE (D) REMOVE	DINT ENERGY CABLE LLC CHNOLOGIES	
	1. THE EXIST INFORMATI ACCORDANC CI/ASCE 3	NERAL NOTES ING SUBSURFACE UT ON IS QUALITY LEV E WITH THE GUIDEL 8-02. ARE SHOWN AT APP	EL D IN INES OF
ANOKA COUN	LOCATIONS DETERMINE ALL BURIE (INCIDENT	. THE CONTRACTOR THE ACTUAL LOCAT D UTILITIES IN TH AL).	SHALL ION OF E FIELD SHEET
I	TO NB STA 110+	-07.55 JTILITIES	55 OF 90 SHEETS



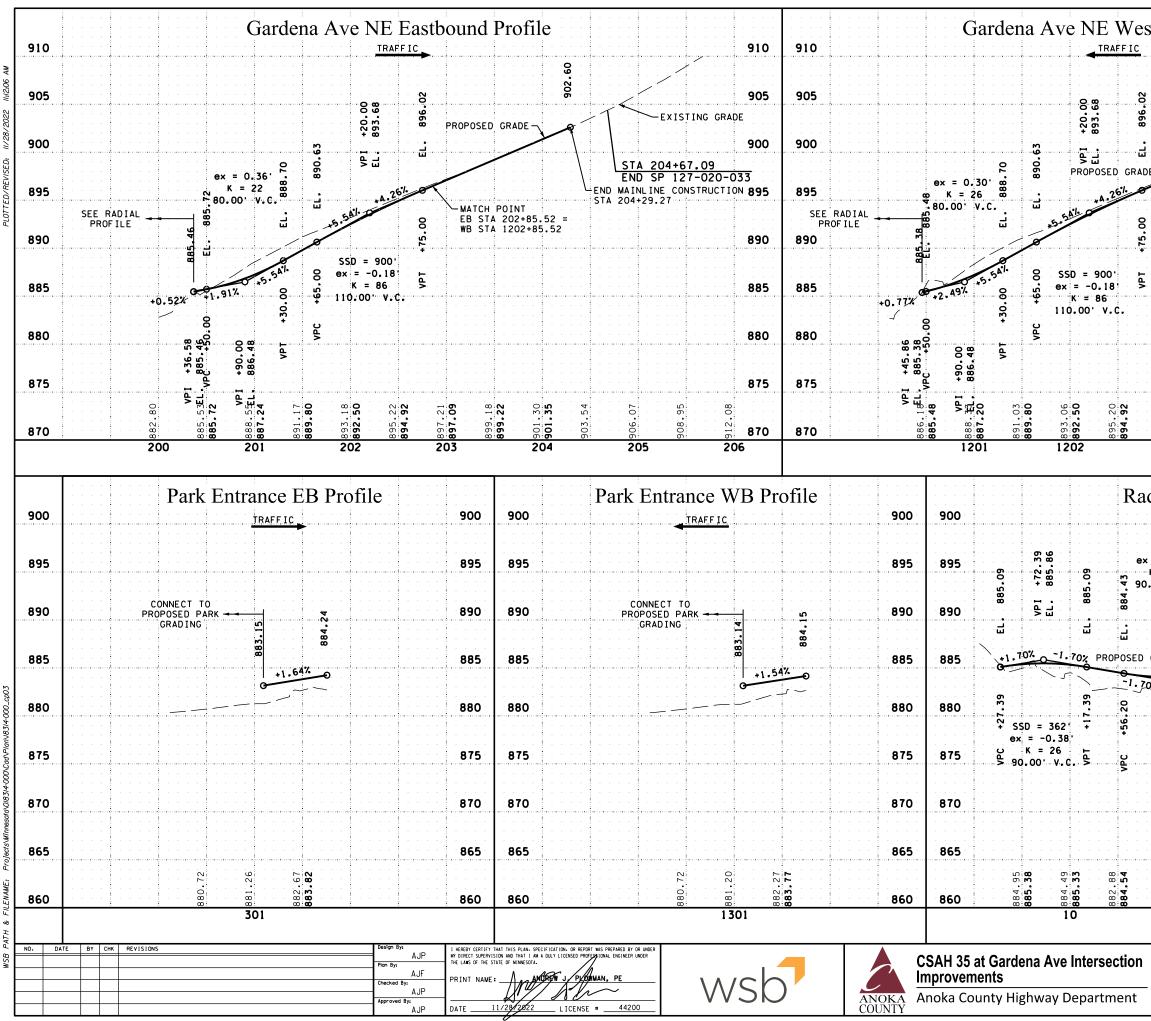
	LEGEND	
	REMOVE BITUMINOUS P.	AVEMENT
	REMOVE BITUMINOUS P & REMOVE CONCRETE P BENEATH	
1	ା ଆଧାର ଅନ୍ୟାର ଅ	ALK
	REMOVE BITUMINOUS DI	RIVEWAY
	VENERAL PAVEMENT	VEWAY
1	PAVEMENT	
	REMOVE BRICK MEDIAN	
	CLEAR & GRUB TREE (E	EACH)
	MB SALVAGE MAILBOX SUPF	PORT
	A SAWCUT BITUMINOUS PA (FULL DEPTH)	VEMENT
	<ol> <li>REMOVE DRAINAGE STRL</li> </ol>	JCTURE
	2 ADJUST HYDRANT	
	(3) ADJUST GATE VALVE &	вох
	ADJUST FRAME & RING	CASTING
	REMOVE SEWER PIF	ΡĒ
<sup>1</sup> D20-033_ <sup>*1221</sup>	REMOVE CURB & GL	JTTER
	CONSTRUCTION LIN	<b>NITS</b>
	¥ AREA OF ENVIRONA SENSITIVITY	ENTAL
2 <u>06 &lt; (4011)</u>	INPLACE RIGHT-OF	-WAY
06 207	PROPOSED RIGHT-C	
ENA AVE NE	TEMPORARY EASEME	
	— – – – – PERMANENT EASEME	INT
0#1120 I		
	GENERAL NOTES 1. ALL REMOVAL ITEMS SHALL BE	
	OF OFF THE PROJECT SITE IN ACCORDANCE WITH THE SPECIFI (INCIDENTAL)	
	2. REMOVAL OF ALL AGGREGATE SU REGARDLESS OF THICKNESS SHA INCLUDED IN EXCAVATION-COMM	LL BE
Ń	3. THE EXISTING SUBSURFACE UTI	LITY
	INFORMATION IS QUALITY LEVE ACCORDANCE WITH THE GUIDELI CI/ASCE 38-02.	
Λ	4. UTILITIES ARE SHOWN AT APPR LOCATIONS. THE CONTRACTOR S	
	DETERMINE THE ACTUAL LOCATI ALL BURIED UTILITIES IN THE	ON OF
V	(INCIDENTAL).	
SCALE IN FEET	<ol> <li>SAWCUTTING FOR CONCRETE CUR GUTTER, CONCRETE WALK, AND BITUMINOUS WALK SHALL BE IN</li> </ol>	
0 50 100	6. INPLACE BITUMINOUS PAVEMENT THICKNESS 6"-6.5". NO ADDIT PAYMENT FOR EXTRA THICKNESS	IONAL
ANOKA COUN	NTY, MINNESOTA	SHEET <b>56R</b>
	<b>DVAL PLAN</b> 12, SP 127-020-033	OF <b>90</b> SHEETS
I 3F 002-033-0	12, 01 121-020-033	JHEE 13



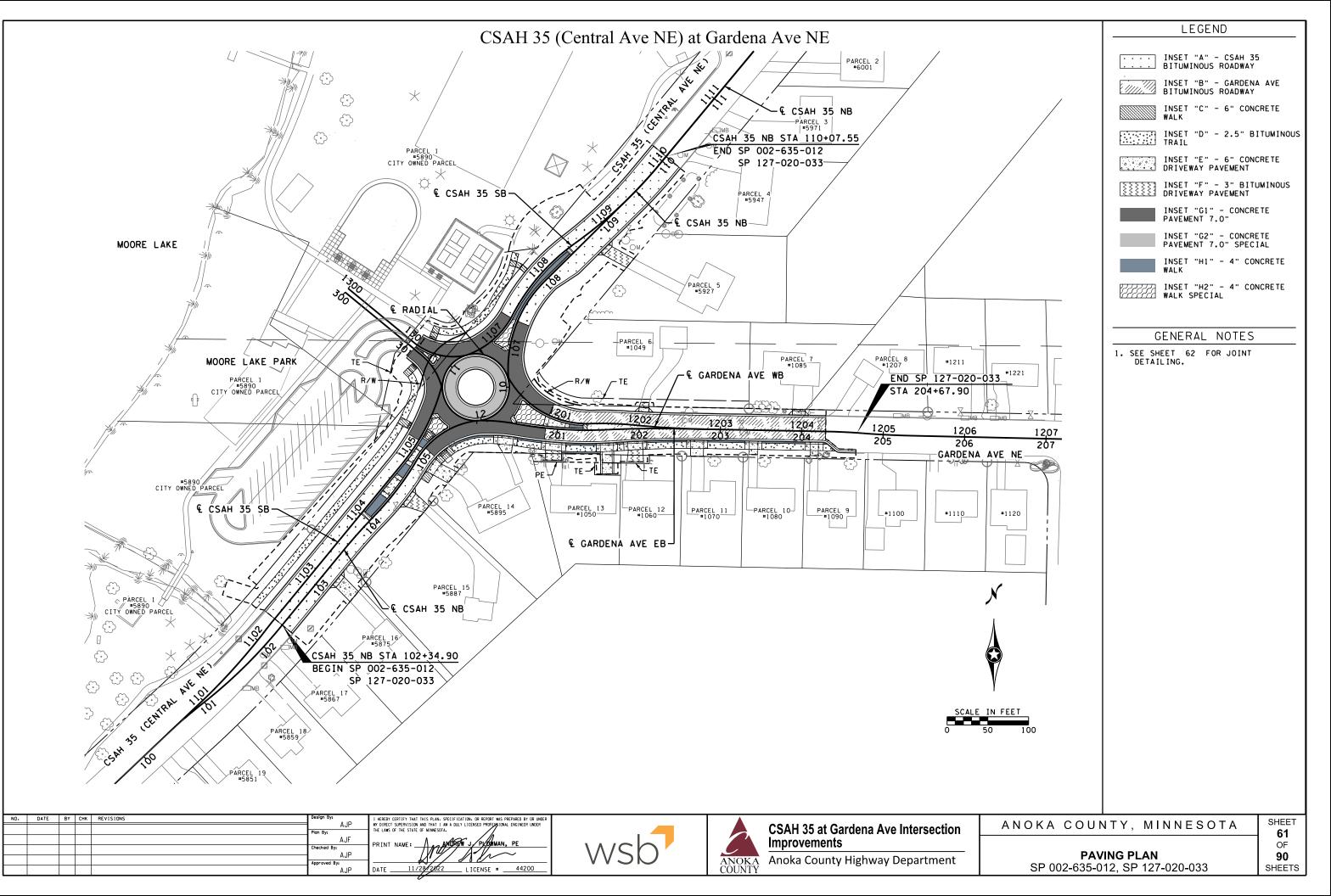




		· · · · ·		ELEVAT	IONS FOR	CONTROL THIS PLAN ARE D 88 DATUM.	900
		· · · · ·					895
67				 	· · · · ·		890
883.6	END	SP 00 SP 12 110+0	02-635-0 27-020-0 07.55	12 33			885
		· · · · ·					880
		· · · ·					875
		· · · ·	· · · ·			ELEVATION	870
		· · · · ·				SED ELEV	865
883.64 883.64	883.83	· · · · ·				EXISTING PROPOSED	860
				ELEVAT	IONS FOR	CONTROL THIS PLAN ARE D 88 DATUM.	900 895
• 62							890
							885
CSAH 3		STA 110	)9+39.68 )+39.68	=			880
		· · · · ·					875
		· · · · ·				ELEVATION	870
883.65 <b>883.59</b>	883.84	· · · · ·				EXISTING E	865 860
1110			- 3	-			-
	AN	ΟΚΑ	COUN	ΝΤΥ,	ΜΙΝΝ	ESOTA	SHEET <b>59</b> OF



tbou	ind I	Profil		ELEVAT	TIONS F	OR THI	ONTROL s plan ar b datum.	E	910
		· · · · · ·	902.60		STA END ISTING	SP 12 GRADE	<u>+68.03</u> 27-020-03	33	905
$\overline{}$				END MAI STA 120	(NL INE )4+29.2		RUCTION		900 895
E		OINT 202+85. 1202+85						· · ·	890
· · · ·									885
			· · · · · ·				ELEVATION ELEVATION		880 875
<b>897.2</b> 1 <b>897.09</b>	899.18 899.37	02 · 106	<b>901.</b>		205	908.95	PROPOSED	915.52	870
<u>TRAFF</u> = 0.38			85				S PLAN AR 8 DATUM.	E	900 895
	B'	60	+30.00 885.85	60.					895
	EL. 884.	EL. 885	VPI EL.	EL.					890
RADE -	. 70%			. 70%	-EXIST	ING GR	ADE		885
01.20 83.67	+46.20	e>	SD = 36 < = -0.3 K = 26						880
VPI EL. 8	VPT	APC VPC	0.00' V.	c.			NO IL		875 870
· · · ·							ELEVA		865
882.42 884.05	882.55 884 49	883.15	<b>883.</b> 88 <b>50</b>	885.40 000000	13	882.71	EXISTING PROPOSED		860
		CONST	C O U M <b>RUCTI(</b> 2-635-0	ON PLA	AN & F	ROFI			HEET 60 OF 90 HEETS





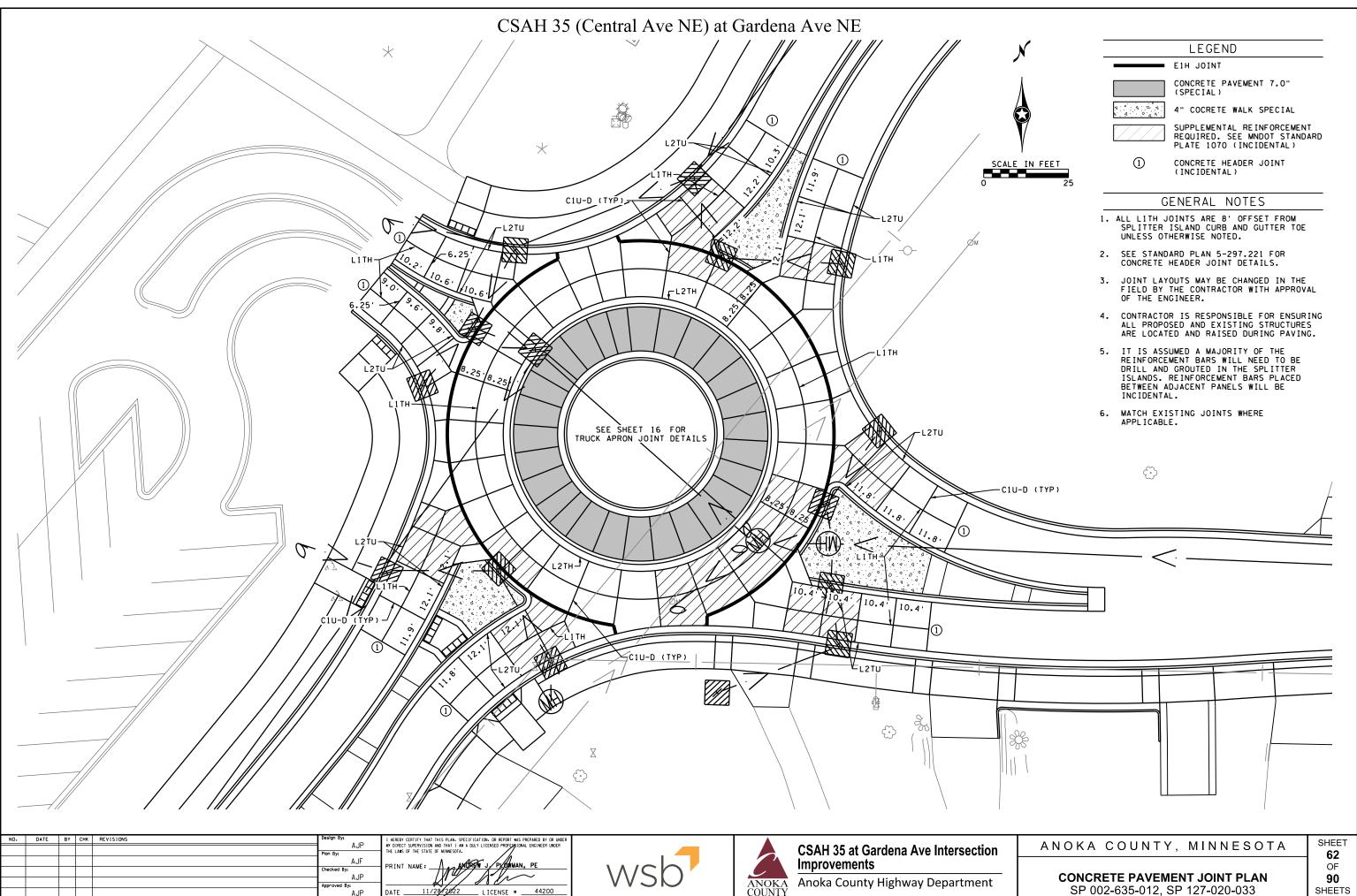
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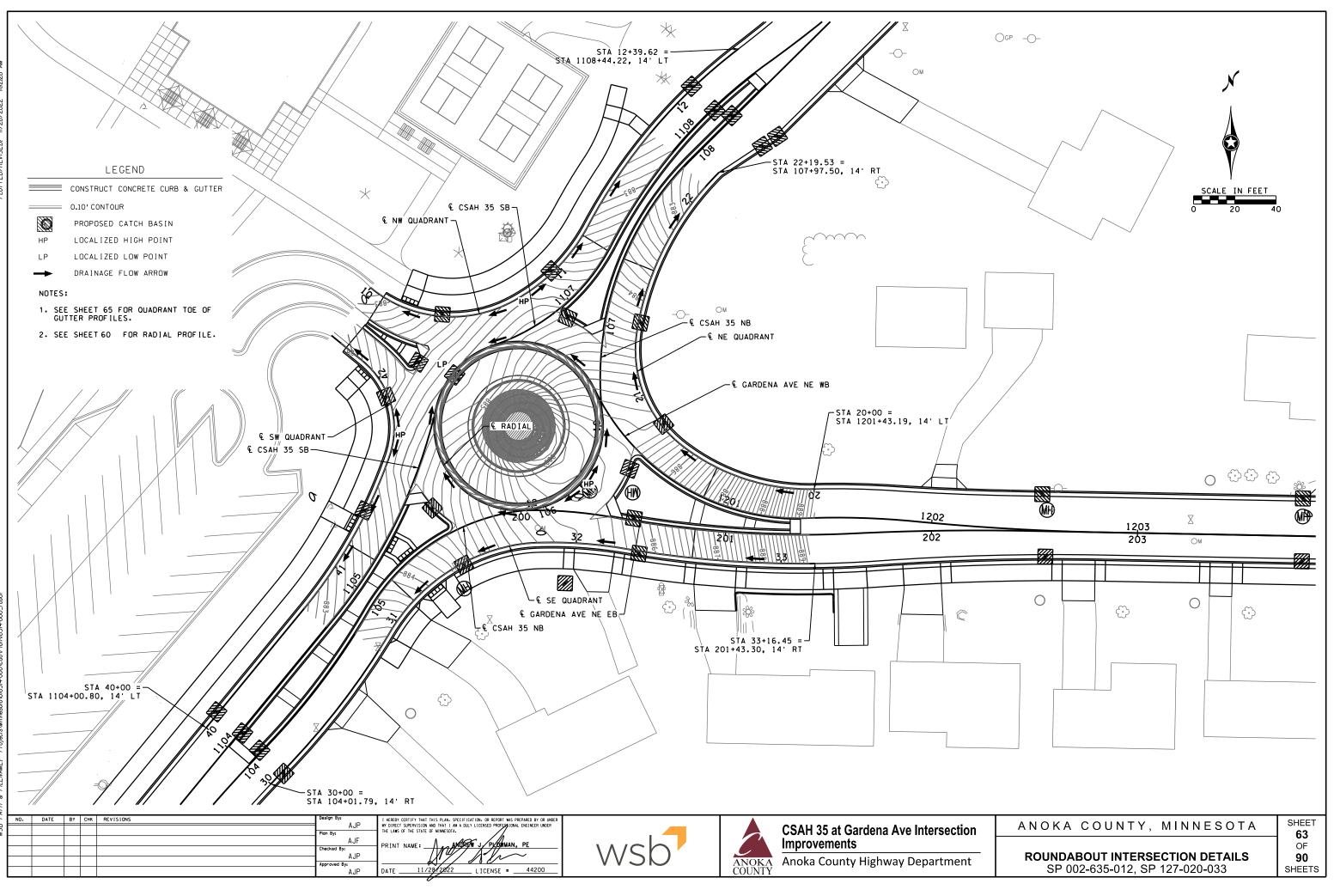
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PLOTTED/REVISED:



SP 002-635-012, SP 127-020-033



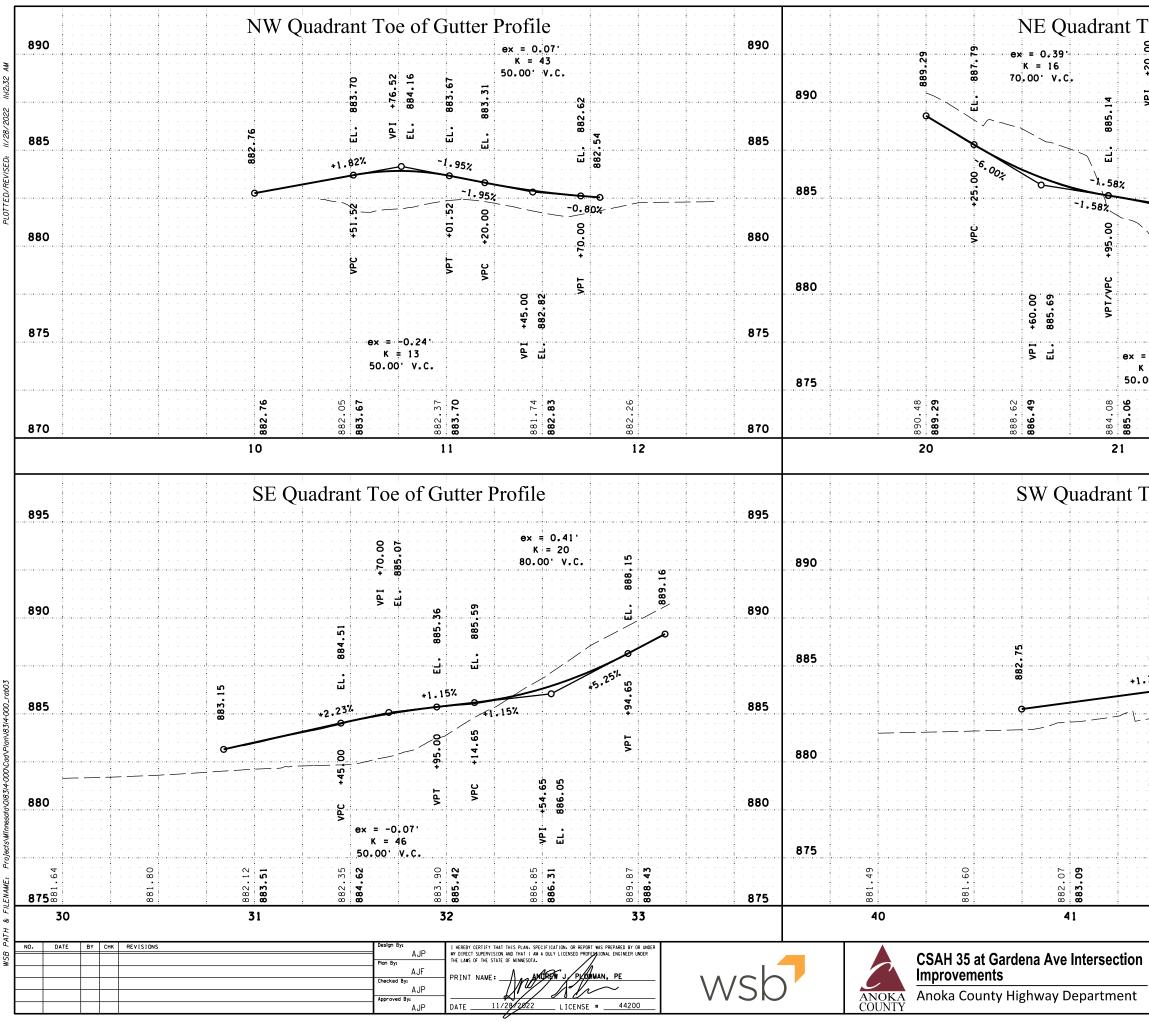
		ALIC	GNMENT T	ABULAT	ION							ALIC	SNMENT T	ABULAT	ON				
	NT STATION						COORDIN	NATES	BEARING	POINT	STATION						COORDI	NATES	BEARING
NUMBER	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	BEARING	POINT NUMBER	STATION	DELTA	DEGREE	RADIUS	TANGENT	LENGTH	x	Y	DEARING
	NORTHWEST QU	ADRANT <	QUAD _N	W >							SOUTHEAST QUA	DRANT <q< td=""><td>UAD _SE</td><td>&gt;</td><td></td><td></td><td></td><td></td><td></td></q<>	UAD _SE	>					
PC	: 10+00.000						506,315.002	114,574,809	S 50° 34' 53.6" E	PC	30+00.000						506,266.498	114,333.924	N 43º 17' 10.4
PI	10+41.234	67" 15' 11.4" LT	92° 24' 45.2"	62.000	41.234'	72.775'	506,346.856	114,548.626	PI	PI	30+04.923	0° 49' 20.6" RT	8° 21' 07.8"	686.000'	4.923'	9.847'	506,269.873	114,337.508	PI
CC							506,354,371	114,622.706		CC CC							506,765.863	113,863.573	
PCC	C 10+72.775						506,383.320	114,567.880	N 62° 09' 55.0" E	PRC	30+09.847						506,273.300	114,341.043	N 44° 06' 31.
PC	C 10+72.775						506,383.320	114,567.880	N 62° 09' 55.0" E	PRC	30+09.847						506,273.300	114,341.043	N 44° 06' 31.
PI	11+00.359	34° 04' 46.4" LT	63* 39' 43.1"	90.000'	27.584'	53.532'	506,407.712	114,580.759	PI	PI	30+52.081	13° 14' 11.7" LT	15* 44' 26.2"	364.000'	42.234'	84.092'	506,302.696	114,371.368	PI
CC	:						506,341.297	114,647.466		CC							506,011.940	114,594.395	
PRO							506,420.699		N 28° 05' 08.7" E	PRC	30+93.938						506,324.367	114,407.618	
PR	C 11+26.307						506,420.699		N 28º 05' 08.7" E	PRC	30+93.938						506,324.367	114,407.618	N 30° 52' 19.
PI		24° 35' 33.4" RT	21° 42' 10.6"	264.000'	57.543'	113.315'	506,447.790	114,655.862	PI	PI	31+33.855	47° 50' 11.8" RT	63* 39' 43.1"	90.000'	39.917'	75.142'	506,344.849	114,441.880	PI
CC							506,653.611	114,480.806		CC CC							506,401.615	114,361,437	
PT	12+39.622						506,493.551	114,690.750	N 52° 40' 42.1" E	PCC	31+69.080						506,383.994	114,449.695	
	NORTHEAST QUA	DRANT CO	IIAD NE	>						PCC	31+69.080						506,383.994	114,449.695	N 78° 42' 31.
	· · ·			,						PI	31+74.957	9° 19' 58.6" RT	79* 34' 38.9"	72.000'	5.877'	11.728	506,389.757	114,450.846	PI
PC							506,530.246		S 88° 30' 53.6" W	20							506,398.091	114,379.089	
PI		39° 13' 54.9" RT	57° 17' 44.8"	100.000'	35.640'	68.473'	506,494.618	114,476.168	PI	PCC	31+80.808						506,395.631		N 88° 02' 29.
CC							506,527.655	114,577.058		PCC	31+80.808						506,395.631		N 88° 02' 29.
PC							506,466.437	114,497.986	N 52° 15' 11.4" W	PI	32+02.184	11° 37' 27.6" RT	27* 17' 01.3"	210.000'	21.376'	42.605'	506,416.994	114,451.777	PI
PC							506,466.437	114,497.986	N 52° 15' 11.4" W	20							506,402.807	114,241.169	
PI		61° 52' 41.0" RT	97* 06' 41.4"	59.000'	35.365'	63.719'	506,438,473	114,519.636	PI	PRC	32+23.414						506,438.067	114,448.188	
00							506,502.556	114,544.639		PRC	32+23.414						506,438.067	114,448.188	
PCC							506,444.386	114,554.503	N 9° 37° 29.6" E	PI	32+70.059	10° 22' 14.4" LT	11° 08' 49.3"	514.000'	46.645'	93.035'	506,484.050	114,440.356	PI
PCC							506,444.386	114,554.503	N 9° 37' 29.6" E	22							506,524.369	114,954.891	
PI		35° 44' 35.1" RT	40° 55' 32.0"	140.000'	45.142'	87.337'	506,451.934	114,599.010	PI	PT	33+16.449						506,530.691	114,440.930	N 89° 17' 42.
CC							506,582.415	114,531.096			SOUTHWEST QUA	DRANT CO	UAD SW	>					
PT	22+19.528						506,484.058	114,630.724	N 45° 22' 04.7" E					•					
										POT	40+00.00						506,235,151	114,361.243	
										PC	40+74.801	001 01 77 01 1	074 501 07	040.000-	47 497-	05 005-	506,282.649		N 39° 25' 06.
										PI	41+17,898	20° 21' 37.2" LT	23° 52' 23.7"	240.000'	43.097'	85.285	506,310.014	114,452,322	PI
										20	41.00 000						506,097.242	114,571,424	
										PCC	41+60.086						506,324.087		N 19° 03' 29.
										PCC	41+60.086	CON 701 00 00	1768 051 06 7	40.000-		F1 0.40-	506,324.087		N 19° 03' 29.
										PI	41+89.299	69° 38' 22.8" LT	136° 25' 06.7"	42.000'	29.212	51.049'	506,333.625	114,520.668	PI
										20	· · · · · · · ·						506,284.389	114,506.771	
										PT	42+11.135						506,311.058		N 50° 34' 53.0
										POT	42+30.69						506,295,953	114,551.633	

NO.	DATE	ВҮ СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
				Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
				AJF	PRINT NAME: A ANDREW J PLOWMAN, PE			Improvements
				Checked By:				
				AJP		VVJVJ	ANOKA	Anoka County Highway Department
				Approved By: AJP	DATE		COUNTY	Alloka county inginary Department
			I		6			

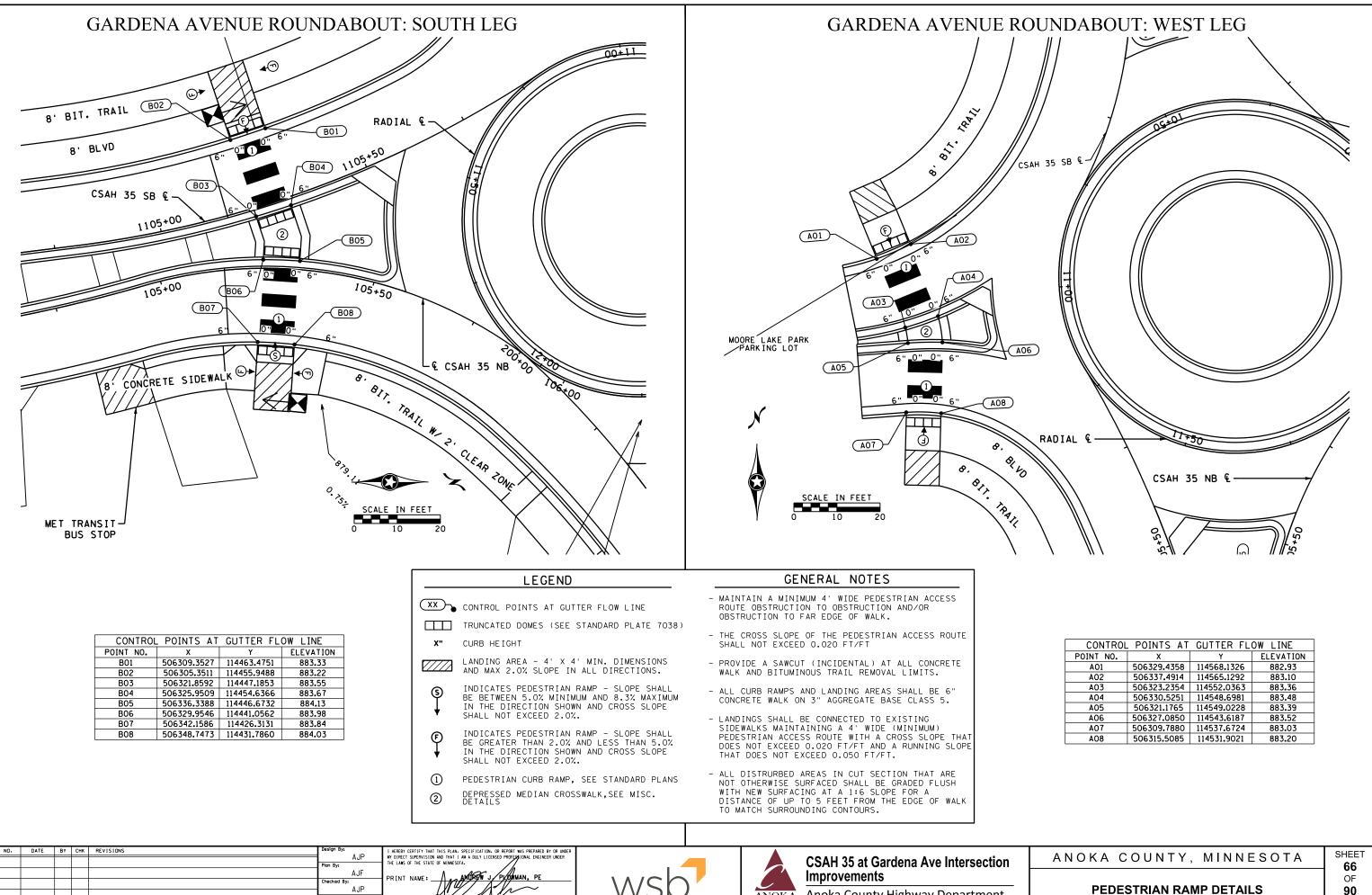
NOTES:

<XXXX> INDICATES GEOPAK ALIGNMENT NAMES.

ANOKA COUNTY, MINNESOTA	SHEET 64
QUADRANT ALIGNMENT TABULATIONS ROUNDABOUT INTERSECTION DETAILS SP 002-635-012, SP 127-020-033	OF <b>90</b> SHEETS



0' \	<b>.2.</b> 885	88 <b>3.</b> 93		20 <b>.</b> 20	882.77		· · ·		· · · ·			· · ·	875
= 4	4 v.C. · ·	6,		20 <b>.</b> 20	77	· ·					• •	-	875
	4		+85.00	882.97			· · ·		· · · ·				875
		· · · ·	5.00	2.97	VPT		· · ·	•				 	
-0	07'	APC A	с С	67	APT 4		· · ·					· ·	
			5.00	2.97	₽	-	· · ·						
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-	66	£6 •	ΙdΛ	EL.	. 77								
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	32.9	5°6	5	883.2(	82.7			•		•			•
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oe			Pro						· · · ·			· · ·	
oe	e of G		Pro										890
oe			Pro										890
ſ		.51	Pro										890
• 883. • (			Pro										890
EL+ 003-01		.51	Pro										<b>89</b> 0 <b>885</b>
FL• 003-01		L. 883.51											
0.55 EL. 883.67		6.1- 6.1- 6.1-											
15 × 100.000		EL. 883.51											885
		6.1- 6.1- 6.1-											
		6.1- 6.1- 6.1-											885
		vPT +93.00											885
	VPI +68.00 EL. 884.01	21. 5											885
	ex = -0. 884.01 κ = 1	21. 5	99%										885



Plr

\_\_\_\_\_LICENSE # \_\_\_\_\_44200

AJP

DATE

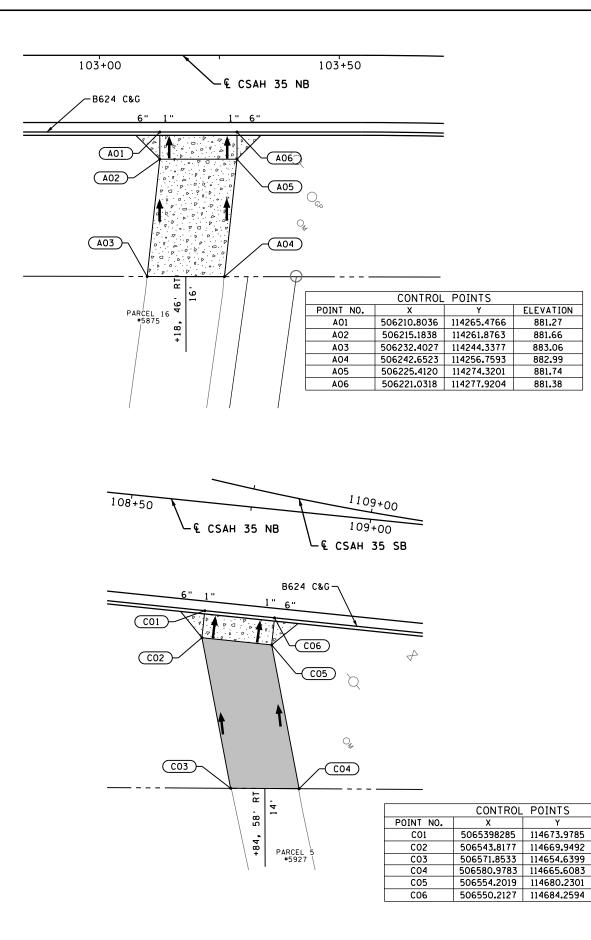
11/28/2022

A02	506337.4914	114565.1292	883.10
A03	506323.2354	114552.0363	883.36
A04	506330.5251	114548.6981	883.48
A05	506321.1765	114549.0228	883.39
A06	506327.0850	114543.6187	883.52
A07	506309.7880	114537.6724	883.03
A08	506315.5085	114531.9021	883.20
	-		

PEDESTRIAN RAMP DETAILS 90 SP 002-635-012, SP 127-020-033 SHEETS

Anoka County Highway Department

ANOKA COUNTY



			-B624 C8	kG	
				1104+50	7
		B			
			B624 C&C	104+50 B16	to
			$\checkmark$	6" 1"	1"6
			BOI		X
			B02		Ň
			ВС		
				43 - PA	RCEL 1 #5887
	CONTROL	POINTS			
POINT NO.	X	Y	ELEVATION	+26,	
B01	506302.8612	114372.3115	882.55	+	
B02 B03	506307.3681 506322.9784	114368.8710 114354.1070	882.90 883.83		
B03 B04	506329.3575	114361.8378	883.88		
B05	506313.3702	114376.9584	882.98		
B06	506308.7717	114380.2755	882.68		
B07	506325.2467	114405.1990	883.22		
B08	506327.5323	114403.8188	883.38		
B09	506334.5134	114399.9036	883.50		
B10	506352.4363	114390.0928	884.23		
B11	506363.7637	114403.4859	884.35		
B12	506344.3875	114413.4458	883.90		
B13	506338.4552	114418.8131	883.78		
B14	506336.4789	114420.6084	883.65		
B15	506279.0640	114389.4689	882.68		
B16	506288.0707	114382.6026	882.86		
B17	506294.9521	114391.8898	883.02		
B18	506286.1733	114398.1191	882.80		
B19	506302.9043	114418.6909	883.11	~	1-
B20	506309.8382	114414.5037	883.42		
B21	506319.0512	114428.7994	883.70		
B22	506312.8273	114432.5578	883.32	<b>O</b>	

SCALE IN FEET 10

DATE	BY	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER	
					MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.	
				Plan By:	INC LANS OF INC STATE OF MINNESOTA.	
				AJF	PRINT NAME: A ANDREW J PLONMAN, PE	
				Checked By:		
				AJP		
				Approved By:	-	
				AJP	DATE11/28/2822 LICENSE #44200	



ELEVATION

882.44

882.82

884.69

884.83

882.92

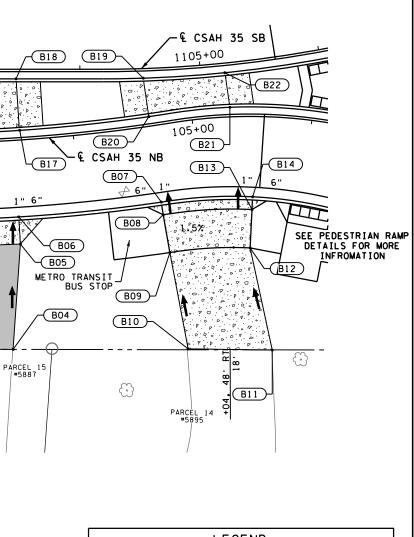
882.54

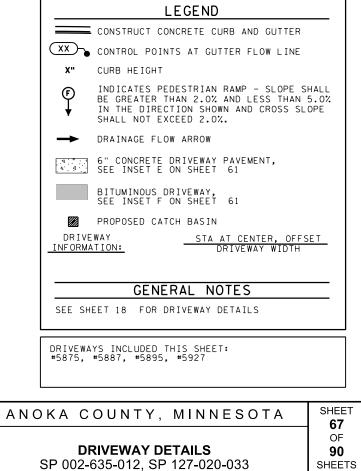
Y

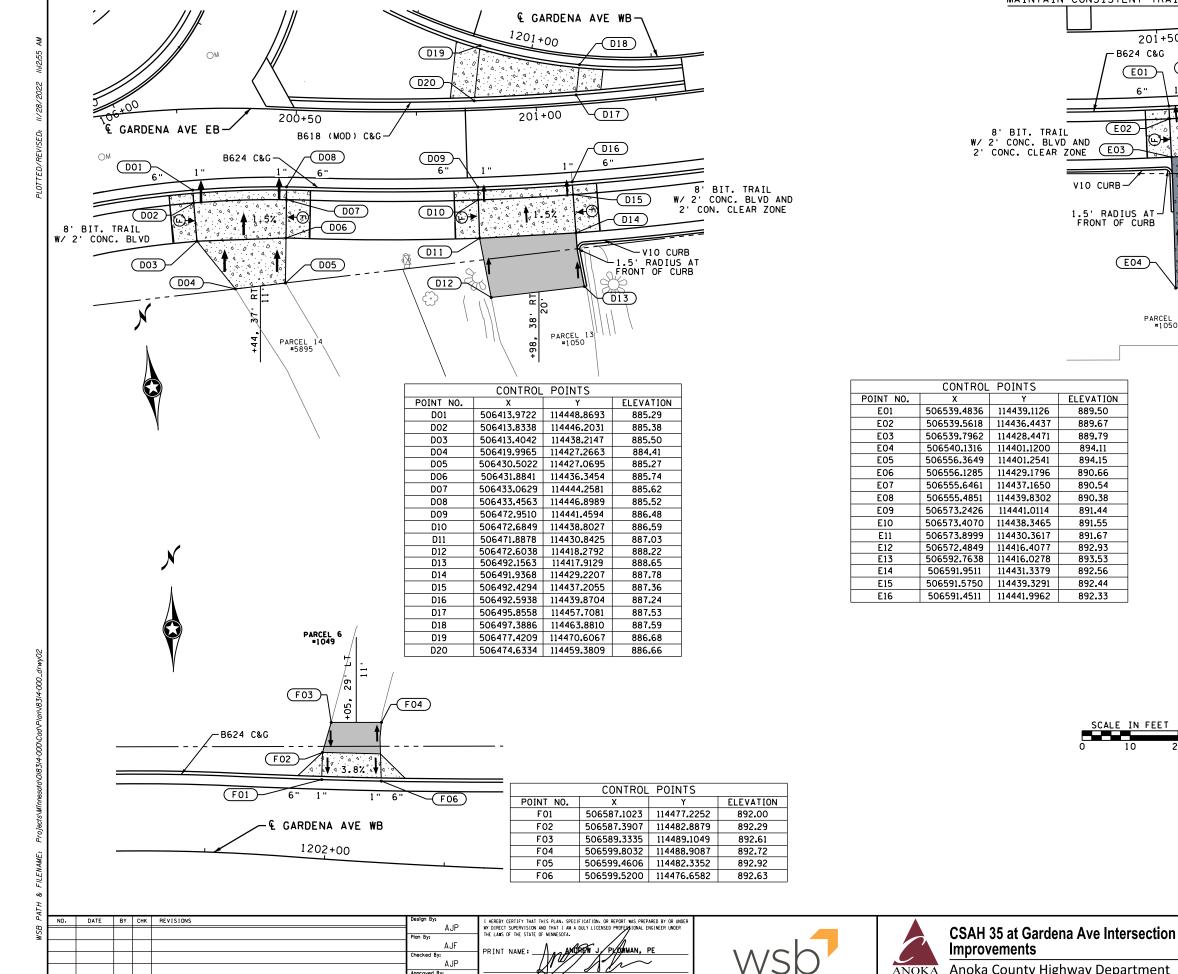
CSAH 35 at Gardena Ave Intersection Improvements

Anoka County Highway Department

NO. C







AJP

DATE

11/28/2022

\_\_\_\_ LICENSE # \_\_\_\_\_ 44200

Anoka County Highway Department

ANOKA COUNTY

(E01)

6"

(E02)

(E03)-

V10 CURB-

ELEVATION

889.50

889.67

889.79

894.11

894.15

890.66

890.54

890.38

891.44

891.55

891.67

892.93

893.53

892.56

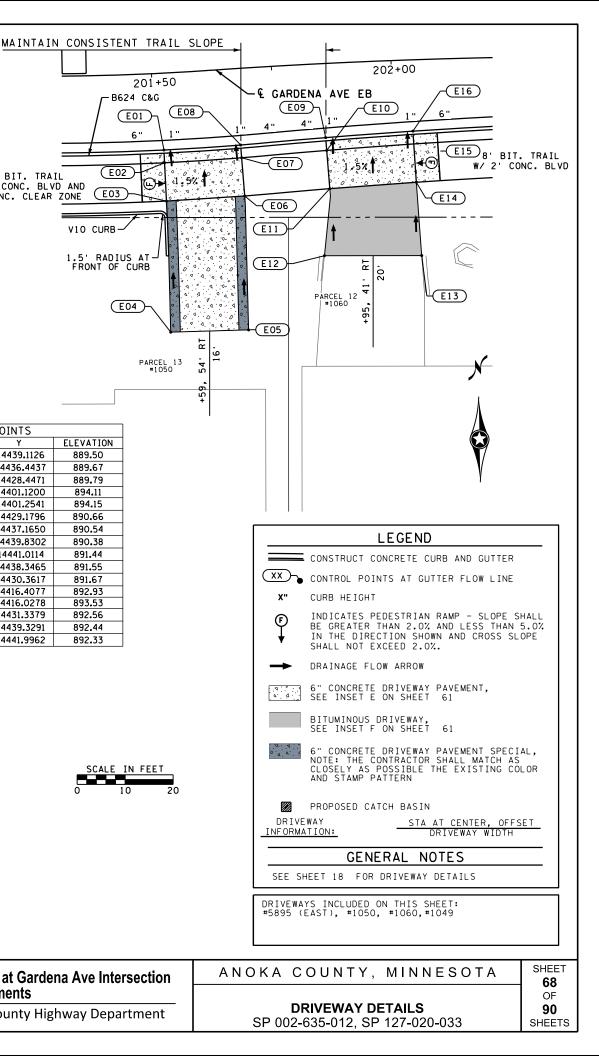
892.44

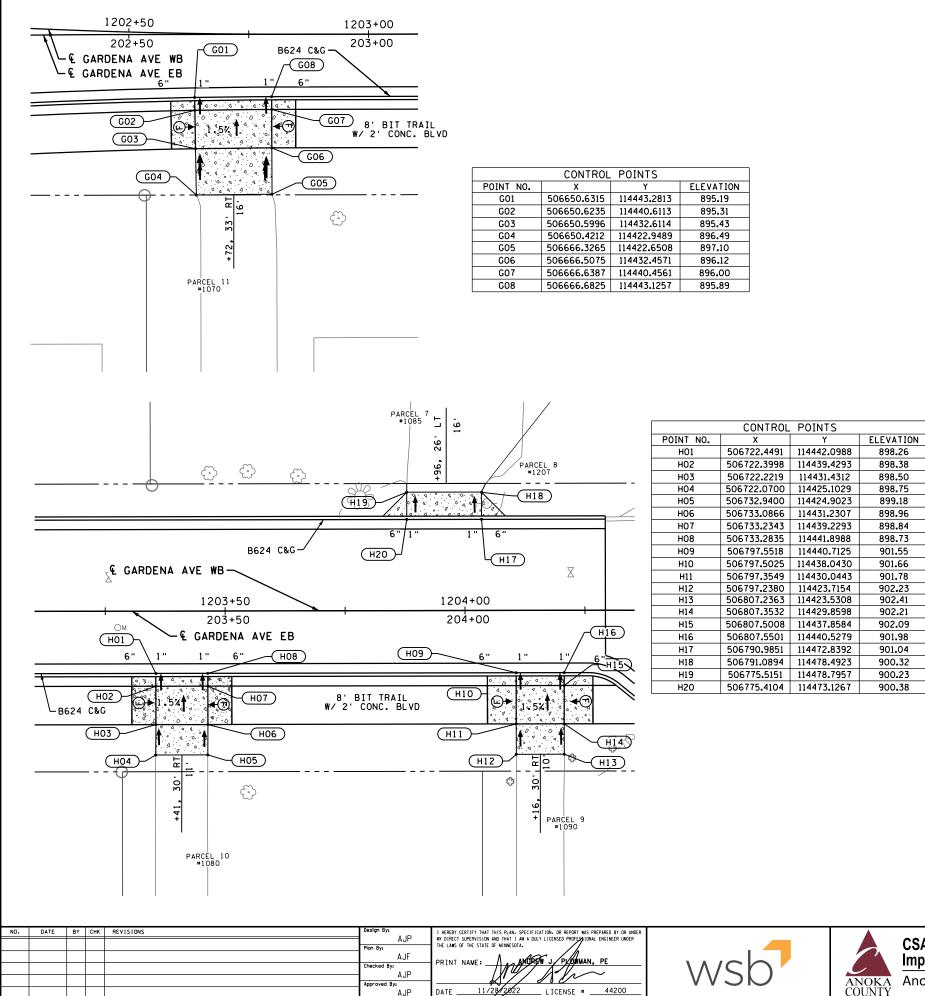
892.33

10

1.5' RADIUS AT FRONT OF CURB

(E04)





proved By: AJP

DATE \_\_\_\_

11/28/2022

\_\_\_\_ LICENSE # \_\_\_\_\_44200

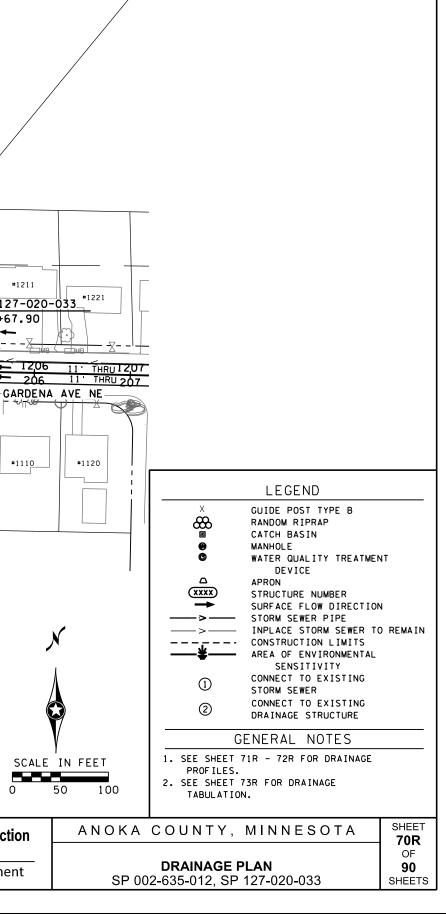
CSAH 35 at Gardena Ave Intersection Improvements

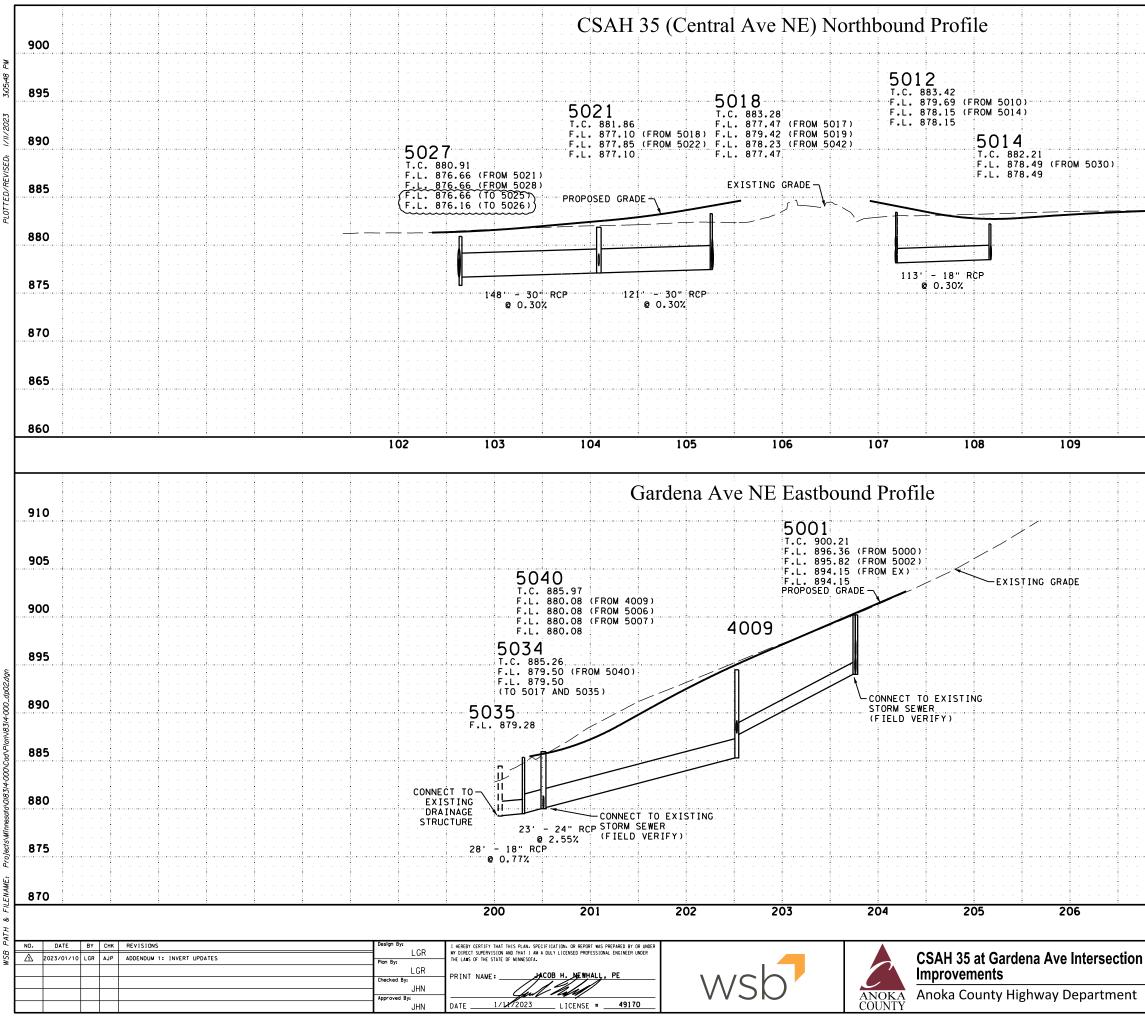
SCALE IN FEET

	LEGEND	
	CONSTRUCT CONCRETE CURB AND GUTTER	
	CONTROL POINTS AT GUTTER FLOW LINE	
	X" CURB HEIGHT	
	INDICATES PEDESTRIAN RAMP - SLOPE SF BE GREATER THAN 2.0% AND LESS THAN 5 IN THE DIRECTION SHOWN AND CROSS SLO SHALL NOT EXCEED 2.0%.	5.0%
	-> DRAINAGE FLOW ARROW	
	6" CONCRETE DRIVEWAY PAVEMENT,	
	BITUMINOUS DRIVEWAY, SEE INSET F ON SHEET 61	
	PROPOSED CATCH BASIN	
	DRIVEWAY STA AT CENTER, OFFS	<u>ET</u>
-	GENERAL NOTES	
-	EE SHEET 18 FOR DRIVEWAY DETAILS	_
	IVEWAY INCLUDED ON THIS SHEET: 070, #1080, #1085, #1090	
ΑΝΟΚ	A COUNTY, MINNESOTA	SHEET 69
SP	DRIVEWAY DETAILS 002-635-012, SP 127-020-033	OF 90 SHEETS

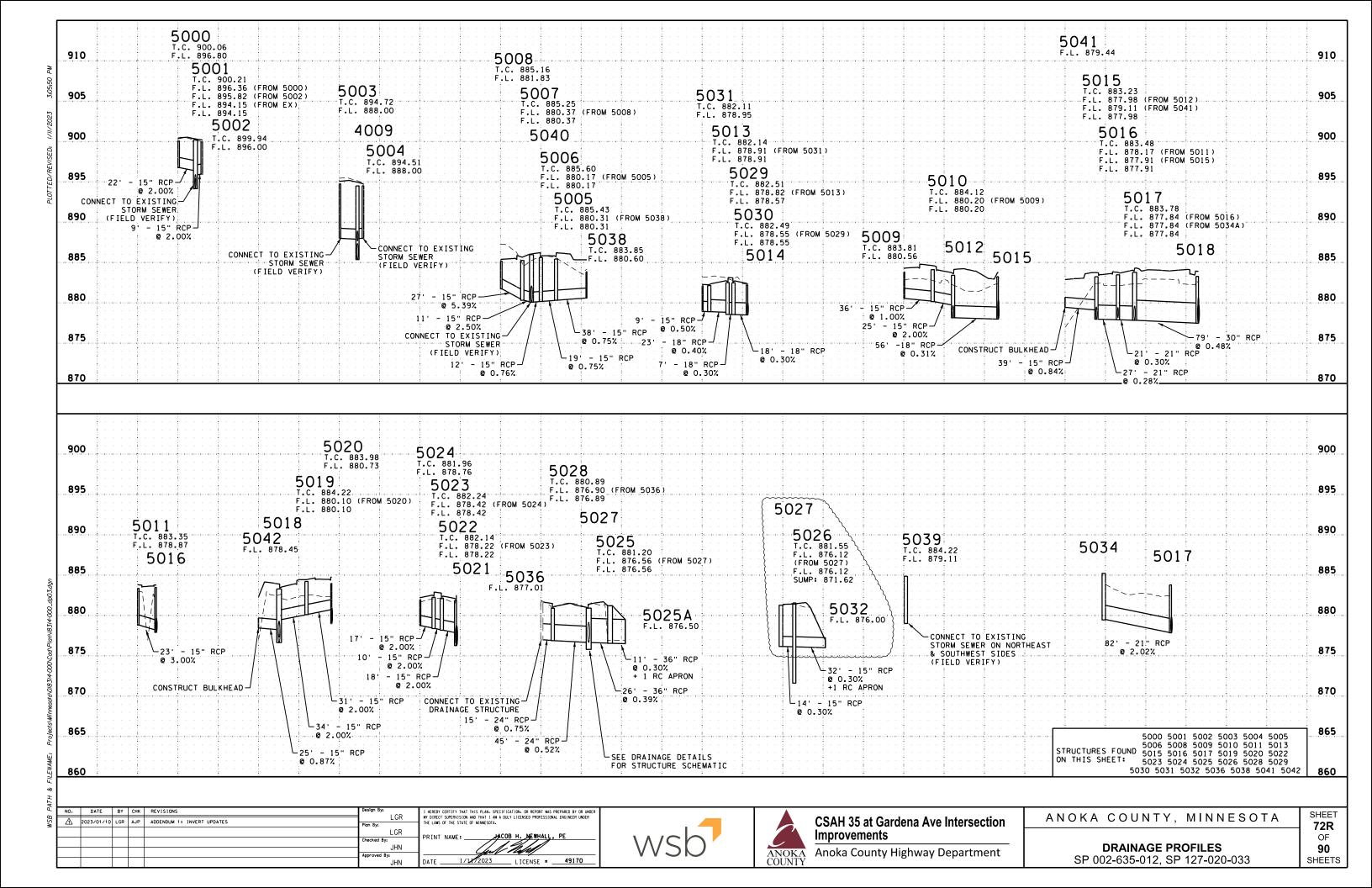
CSAH 35 (Central Ave NE) at Gardena Ave NE PARCEL 2 #6001 412 7.5  $\star$ CENTRAL  $\odot$ - & CSAH 35 NB -PARCEL 3 | #5971 (CSAH 35 NB STA 110+07.55 END SP 002-635-012 PARCEL Shr #5890 CITY OWNED PARCEL SP 127-020-033 R ÷Ċ € CSAH 35 SB PARCEL #5947 ¢?) <°ų̃ CSAH 35 NB-(5014) MOORE LAKE 5030 ۲ 1300 300 5031 PARCEL 5 #5927 5013) € RADIAL -(5012 CONSTRUCT BULKHEAD 5009 PARCEL 6 #1049 5016 PARCEL 8 #1207 PARCEL 7 #1085 MOORE LAKE PARK #1211 ΤE 5011 CONSTRUCT BULKHEAD END SP 127-020-033\_\*1221 -€ GARDENA AVE WB PARCEL 1 #5890 CITY OWNED PARCEL Ř∕₩ 500 TE STA 204+67.90 ſŀ 5004 Æ (5018 (5002) 5019 (5034 (5042 12,027 (1)1203 1204 5035 12,05 - (5001 5006 <u>A(1)</u> 203 202 -204 -(5005) N (5000)II 5039) (5038) #5890 CITY OWNED PARCEL 502 (5022) PARCEL 14 #5895 € ČSAH 35 SB PARCEL 13 PARCEL 12 #1060 -PARCEL 10-#1080 PARCEL 9 PARCEL 11 #1070 \_#1100 5024 INSTALL RANDOM RIPRAP € GARDENA AVE EB-STRUCTURES 5025, 5025A, MAND EXISTING RIPRAP AREA (INCIDENTAL). 1 PARCEL 15 #5887  $\odot$ PARCEL 1 #5890 CITY OWNED PARCEL 5028) ∿ CSAH 35 NB  $\gg$ (5036) £ ۲ PARCEL 16 CSAH 35 NB STA 102+34.90  $\odot$ BEGIN SP 002-635-012 순 £ SP 127-020-033 PARCEL 17 #5867 CENTRAL £ 3 Þ.1 PARCEL 18 #5859 స్తు ~¿SAH ARCEL #585 0 
 ND.
 DATE
 BY
 CHK
 REVISIONS

 ①
 2023/01/10
 LGR
 AJP
 ADDENDUM 1: INSTALL RIPRAP AND REGRADE.
 I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER WY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. LGR **CSAH 35 at Gardena Ave Intersection** lan By LGR Improvements RINT WS necked By: JHN <u> / ///</u> ANOKA COUNTY Anoka County Highway Department proved By: JHN DATE 1/1/2023 LICENSE # 49170





900 935 936 937 988 989 989 989 988 988 988 98	)		COUNTY, MINNESOTA DRAINAGE PROFILES	SHEET 71R OF 90
895 890 885 885 880 870 870 870 860 110 110 910 900 905 900 905 900 895 890 895 885 885 885 885 885 885 885 885 885	  		STRUCTURES FOUND 5001 5012 5014 5018 ON THIS SHEET: 5021 5027 5034 5035 5040	
895 890 885 885 880 880 870 870 870 865 860 110 910 905 900 905 900 895 890				
895 890 885 880 880 875 870 865 860 110 910 905 900 895	· ·			885
895 890 885 880 880 875 870 860 110 910 905 900				890
895 890 885 880 880 875 870 865 860 110 910 905	· ·			895
895 890 885 880 880 875 870 865 860 110 910	· ·			900
895 890 885 880 875 870 865 860 110	· ·			905
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895 890 885 880 880 875	· ·			
895 890 885 885 880				
895	  			-
895				885
				890
900				895
				900



													DRAINA	GE T	ABULATION	١													I
		C T DUC	TURE LOCATI	0.01	COOR	DINATES	1			GE STRU						CONNECT TO			15"	18"	21"	24"	30"	36"	15" RC PIPE	36" DC DIDE			
STRUCTURE I	vo.		TURE LUCATI								LIURES		CASTING	STEPS	EXISTING	EXISTING	TOP OF	OUTLET INLET	RCP	RCP	RCP		RCP	RCP	APRON	APRON	CLASS		·
FLOWS FLO	WS AI	IGN.	STATION	OFFSET	×	Y	SPEC	1 SPEC 2	н  SD-48	SD-72	48-4020	60-4020		REOD	STORM SEWER			ELEV. ELEV.									III	TYPE 4	REMARI
FROM TO			•••••••••••••••••••••••••••••••••••••••					EACH LI					TYPE		EACH	EACH	ELEV		LIN FT	EACH	EACH	CU YD		1					
5000 500	DI GAR	DENALEB	203+80.00	12 3' RT	506766.93	3 114442.03							C - 1					896.80 896.36										30 10	(A) (E
5001			1203+80.00									6.2	A - 7D	YES	1		900.21												
5002 500	DI GAR	DENA_WB	1203+80.00	18.3' LT	506767.50	0 114472.52	1						C - 1				899.94	896.00 895.82	9										(E)
5003	GAF	RDENALE	202+55.50	12.3' RT	506642.45	5 114444.28	1						C - 1		1		894.72												(A) (E
5004	GAF	RDENALW	1202+53.00	17.6' I T	506640.99	114474.60	1						C - 1		1		894.51												(E)
5005 500	06   GAR	DENALEB	200+60.00	15.3' RT	506445.18	114445.76					5.4		C - 1	YES			885.43	880.31 880.17	19										(A) (E
5006 504	10 GAR	DENALEB	200+55.00	1.3' LT	506442.79	114462.86					5.7		C - 1	YES			885.60	880.17 880.08	12										
5007 504			106+36.00								5.2		C - 1	YES			885.25	880.37 880.08	11										
5008 500		JAD_NE				114508.53							C - 1				885.16	881.83 880.37	27										(A) (E
5009 501	0 CS/	AH35_NB	107+05.00						3.2				TYPE - C				883.81	880.56 880.20	36										
5010 501	12 R	ADIAL	10+47.00	16.8' RT	506410.59	114560.32					4.2		TYPE - B					880.20 879.69											
5011 501		JAD_SW	41+90.00	1.0' LT	506322.4	114521.96			4.4				TYPE - C					878.87 878.17											
5012 501			1107+04.00	16.2' LT	506402.65	5 114582.99					5.2		TYPE - C					878.15 877.98		56									
5013 502		AH35_NB	108+21.37	19.8' RT	506505.09	114643.40			3.2				TYPE - D					878.91 878.82		23									
5014 501		H35_SB2		15.0' LT	506470.73	3 114672.58			3.6				TYPE - D					878.49 878.15		113									
5015 501		JAD_NW				114561.88					5.2		TYPE - C					877.98 877.91			27								
5016 501		ADIAL	11+05.60	16.8' RT	506338.0	114538.66					5.5		TYPE - D					877.91 877.84			21								
5017 501		ADIAL	11+01.20	1.3' LT	506355.74	114532.48						5.9	TYPE - C					877.84 877.47					79						
5018 502		H35_SB1		15.9' LT	506312.05	114466.68							TYPE - C					877.47 877.10					121						
5019 501		ADIAL	11+60.00	16.8' RT	506344.99	114467.87					4.4		TYPE - B					880.10 879.42											_
5020 501		AH35_NB							3.2				TYPE - C					880.73 880.10	31										
5021 502			1104+10.00	15.0' LT	506240.22	2 114368.98						4.7	TYPE - C					877.10 876.66					148						
5022 502		H35_SB1									4.2		TYPE - B					878.22 877.85											
5023 502		AH35_NB									4.1		TYPE - B					878.42 878.22											
5024 502			104+10.00						3.1				TYPE - C					878.76 878.42											
5025 502			1102+62.00							4.8			A - 7D	YES			881.20	876.56 876.50						11					
5025A			1102+48.00															876.50								1	Kun	51	(F)
5026 503			1102+45.00					1										876.12 876.00											(B
5027 502		H35-SBI	1102+62.00	15.0' LT	506146.24	114254.65				(4.7)			TYPE - C	YES			880.91	876.66 876.56						26					
5027A 502			1102+62.00							-			TYPE O				000.00	(876.16 876.12)				45							(C
5028 502			102+62.00						3.9				TYPE - C					876.89 876.66				45							+
5029 503		AH35_NB				114658.35					4.2		TYPE - B					878.57 878.55		7									+
5030 501			1108+16.66				-	+ +	3.1	+	4.2		TYPE - B					878.55 878.49		18									+
5031 501		AH35_NB							5.1	-			TTPE - D				882.11	878.95 878.91 (876.00)	3						1		7	20	+
5032 5034 503		H35_SB1				114257.54		+ +				5.9	A - 7D				00F 2C	879.50 879.28		28					1		'	26	(D
5034A 503	-	ADIAL				114476.21						2.3	A - 10				882.26	879.50 879.28		28	82								
5034A 50		JAD_SE				3 114456.32										1		879.28			02								+ 0
5036 502		AH35_NB		5.3' LI	506194 04	114430.32	+	+ +		+				+		1		877.01 876.90	+			15							+
5038 502		JAD_SE				5 114431.39			3.1				M - 5			1	993.95	880.60 880.31				15							+
5038 500		JAD_SE JAD_SE				114428.79	+	+ +	J.1	+	4.7		A - 7D	YEC	1		884.22		0										+
5040 503		AH35_NB				114475.35	+			+	H.I	6	A - 7D		1			880.08 879.50				23							+
5040 503		JAD_NW				114475.35				-		0	A - 10	163	1		000.91	879.44 879.11				25							+
5041 501		JAD_NW JAD_SW						+ +		+				+				878.45 878.23											+
30-2 30	ւս վ ալ	JAD_3W	-1.21.00	128.0' L1 TOTAL		11-110.02	5	1 1	5.7 15.1	05	62.2	28.7		+	5	2		010.73 010.23		245	130	83	348	37	1	1	$\left( \overrightarrow{7} \right)$	77	+
				TUTAL	-		3		0.1   10.1	1 ( 3.3)	02.2	20.1			5	۷ (			451	243	130	00	JHO	ונ	1	1	エモノ		

GENERAL NOTES:
STATIONS, OFFSETS, AND ELEVATIONS ARE GIVEN TO:

END OF ALL CONCRETE APRONS.
END OF BARREL FOR ALL METAL APRONS.
CENTER OF FRAME FOR ALL STORM STRUCTURES.

ALL PIPE LENGTHS EXCLUDE APRONS.
TIE PIPE JOINTS FOR CULVERTS AND SEWER PIPE FROM APRONS TO FIRST STRUCTURE (INCIDENTAL).
PAY HEIGHTS ARE FROM BOTTOM OF CASTING TO INVERT, PLUS 0.7'.
RC PIPE IS DES 3006 GASKET JOINT PIPE.
STEPS REQUIRED WHEN DEPTH FROM TOP OF CASTING TO STRUCTURE INVERT IS GREATER THAN 4.5'.
FLOWLINE (F.L.) ELEVATIONS ARE AT CENTER OF STRUCTURE.

REMARKS:

(A) - SEE CITY STANDARD PLATE STO-9. (B) - WATER OUALITY TREATMENT DEVICE. CASTING INCIDENTAL. SEE SPECIAL PROVISION FOR ADDITIONAL INFORMATION. (C) - DIVERSION PIPE FROM 5027 TO TO WATER OUALITY TREATMENT STRUCTURE (5026). (D) - FLOW SPLIT AT 5034 TO 5017 AND 5035. (E) - 4' TP PIPE DRAIN CONNECTION (INCIDENTAL). SEE SHEET 11 (F) - INSTALL RANDOM RIPRAP. GEOTEXTILE FILTER TO BE PLACED BELOW PER MNDOT STANDARD PLATE 3133D.

< L										
۹ ۳	NO.	DATE	BY CH	нк	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
NSB N	A	2023/01/10	LGR AJ	JР	ADDENDUM 1: INVERT AND RIPRAP UPDATES	LGR Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
- [						LGR	PRINT NAMF: المركة ACOB H. المركة PRINT NAMF:			Improvements
Ē						Checked By:	PRINT NAME:PRINT NAME:			improvements
						JHN Approved By:		VVSN	ANOKA	Anoka County Highway Department
F						JHN	DATE1/1/2023LICENSE #49170		COUNTY	

ANOKA COUNTY, MINNESOTA

SHEET 73R OF 90 SHEETS

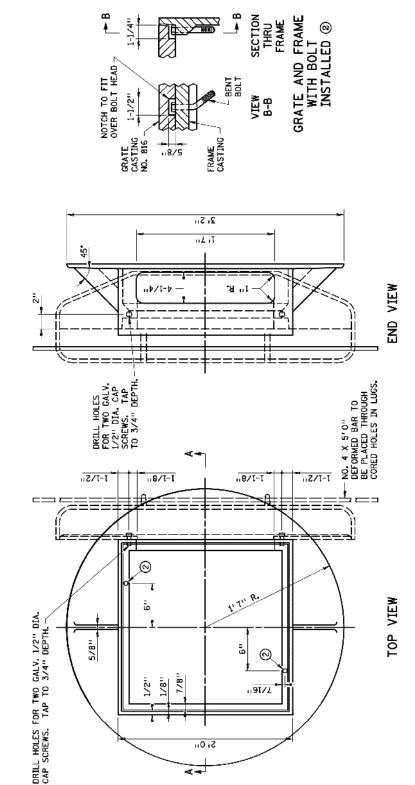
DR	AINAGE T	ABUL	ATIONS	3
SP 00	2-635-012,	SP 12	27-020-	033

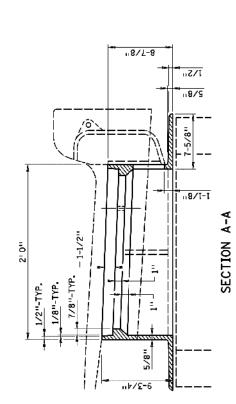
AM

С	ASTIN	G ASSE	MBL	Y SUMM	ARY	J						
ASSEMBLY	RING OR FRAME	COVER OR GRATE	CURB BOX	STANDARD PLATE NUMBER	USE	TOTALS (EACH)						
A - 7D	700-7	715		4101 4110	MANHOLE	5						
C - 1	NEENAH	8										
TYPE - B	FRAME	FRAME AND RING CASTING TYPE B FOR MEDIAN CATCH BASINS.SEE DETAILS.										
TYPE - C	805 MODIFIED	816		SEE DETAIL 4154	CATCH BASIN	11						
TYPE - D	802A MODIFIED	816	823A	SEE DETAIL 4154 4160	CATCH BASIN	4						
M - 5	700-10	720		4101 4140	CATCH BASIN	1						
					TOTAL	35						

NO.	DATE	BY	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER			
					LGR Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					LGR	PRINT NAME: JACOB H. NEWHALL. PE			Improvements
					Checked By:	PRINT NAME:HCOB H. AEWHALL, PE			Improvementa
					JHN Approved By:	fpt left	VVSN	ANOKA	Anoka County Highway Department
					JHN	DATE11/26/2022 LICENSE #49170		COUNTY	

ANOKA COUNTY, MINNESOTA	SHEET <b>74</b>
	OF <b>90</b>
SP 002-635-012, SP 127-020-033	SHEETS





GRATE FRAME CASTING TYPE C & D

## NOT TO SCALE

NO.	DATE	BY C	СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER		
					LGR	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		CSAH 35 at Gardena Ave Intersection
			-		Plan By: LGR			•
			-		Checked By:	PRINT NAME:HACOB H. NEWHALL, PE		Improvements
			-		JHN	Jul Infil		Anaka County Highway Donartmont
					Approved By:		ANOKA	Anoka County Highway Department
					JHN	DATE	COUNTY	

# - 24 1/8" -23' 20 1/2"

FRAME RING AND CASTING TYPE B

TO BE USED FOR MEDIAN CATCH BASINS

CASTINGS USED FOR ASSEMBLY 816 (MNDOT STD PLATE 4154B) ò.

NO. 823A (MNDOT STD PLATE 4160) OR

CURB BOX ①

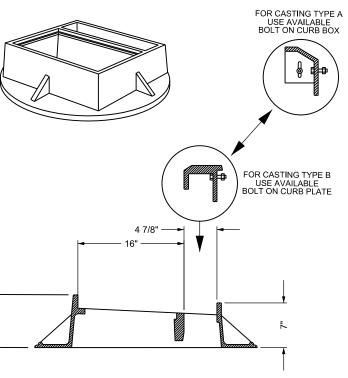
GRATE

# NOTES:

ŝ GUT TER. - °× AND OP VIEW, PROVIDE MNDOT STD PLA LLD PLACE 1/2" CAM SIDE AND BI WILL PREVENT 1 ROM BEING PLACI 3 FOR USE 1/4" FILLETS IN ALL CORNERS. SEE MNDOT STANDARD PLATE 7111 F INSTALLATION REQUIREMENTS. APPLIES TO DESIGN B OR V CURB AND AT LOCATIONS INDICATED IN TOP VIEW, HOLES WHEN GRATE NO 816 (MNDOT %) USED WITH THIS FRAME. FIELD PLAN LONG GALV BOLT IN UP STREAM SID TO PREVEN REMOVAL. THIS WILL PH (MNDOT STD PLATE 4154) FRAM BIL AND NOT BEING BICYCLE SAFE AND  $\Theta \Theta$ 

- 35 7/16"

GRATE AREA 23" X 16" X 2" MUST BE DIRECTIONAL AND BIKE SAFE SIMILAR TO MNDOT STD PLATE 4152C OR MNDOT STD PLATE 4154B





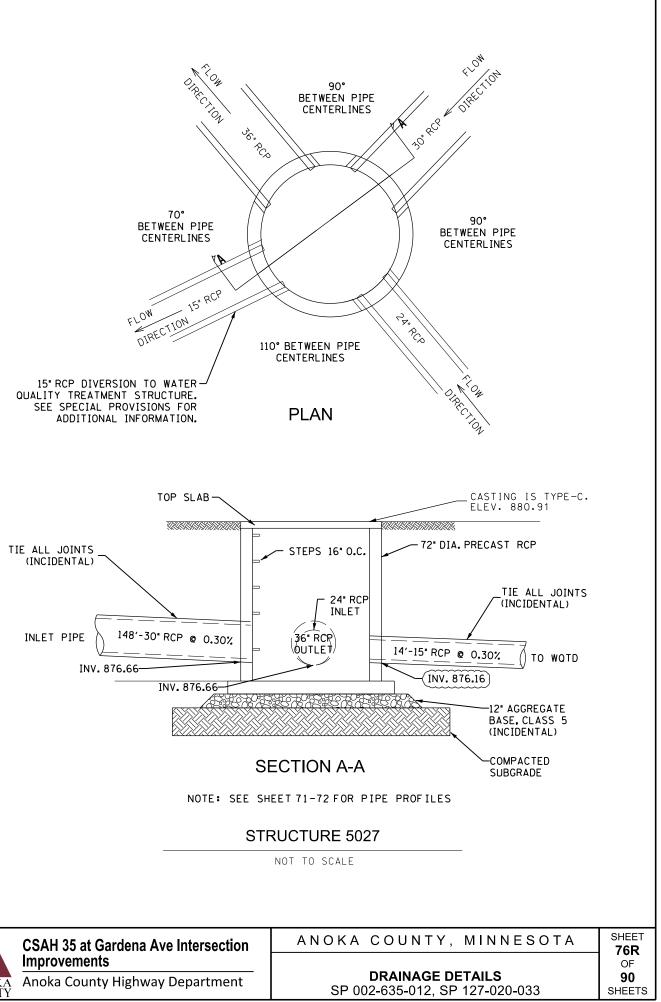
SHEET 75 OF 90 SHEETS

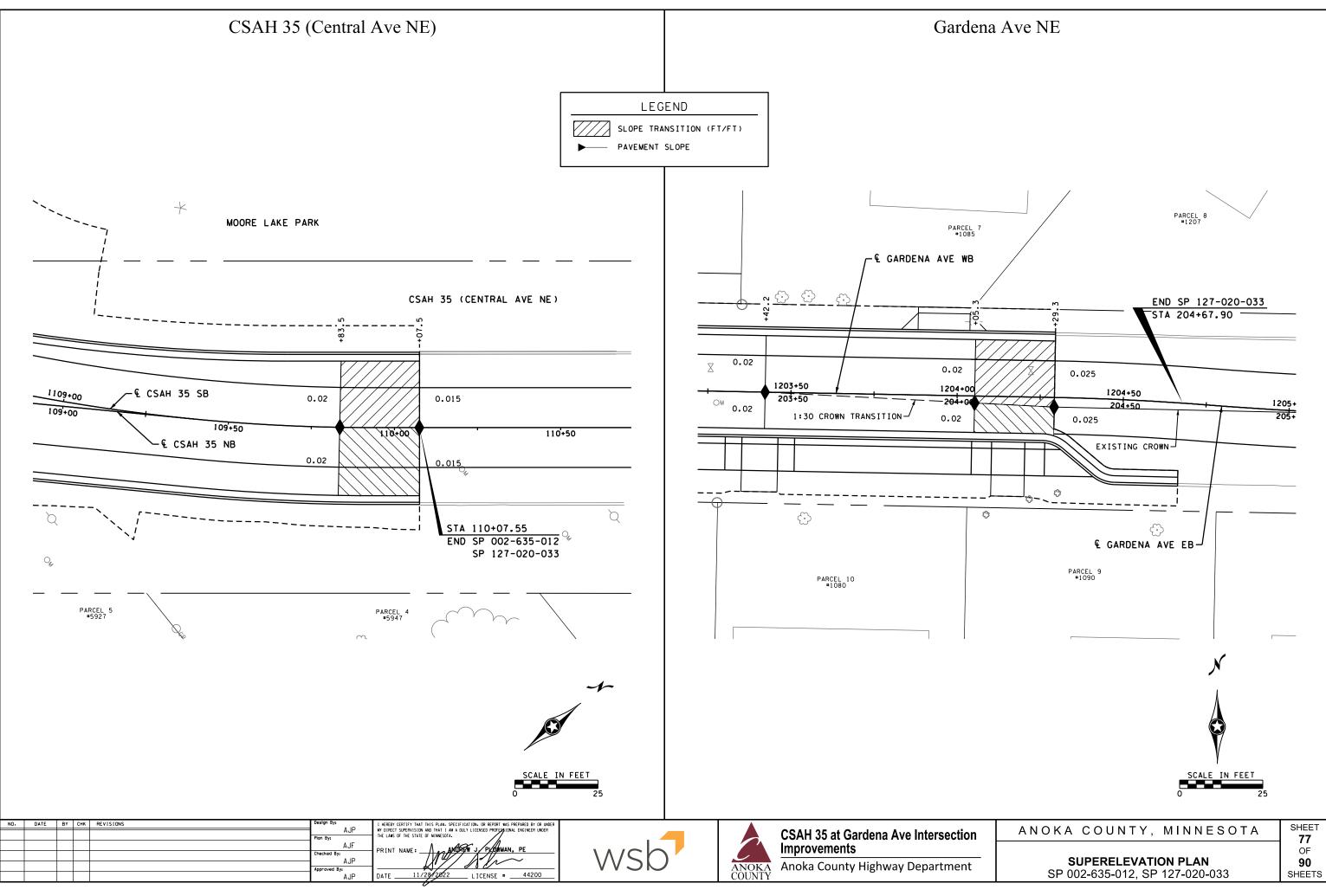
DRAINAGE DETAILS SP 002-635-012, SP 127-020-033

РМ

NO.	DATE	BY	Снк	REVISIONS	Design By: LGR	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER			
	2023/01/10	LGR	AJP	ADDENDUM 1: INVERT UPDATES	Plan By:	THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersect
					LGR	PRINT NAME: المرحACOB H. بلوEWHALL, PE			Improvements
					Checked By:		$\Lambda/Cr\gamma$		Improvemento
					JHN Approved By:	Jul Ilifil	VVSN	ANOKA	Anoka County Highway Departme
					JHN	DATE1/1/2023LICENSE #49170		COUNTY	, , , , ,







	SIGN		SIGN AND D PANEL	1	IZE		SUPF	NUMBER	REMOVE	SIGN	SALVAGE		K DELINEATOF /MARKER
		CODE	LEGEND	(W)	XH) NCH	HEIGHT	TYPE (1)	OF POSTS	S I GN E A CH	SQ FT	SIGN EACH	S I GN E A CH	PANEL
E	S-1	W11-2	PEDESTRIAN CROSSING		Х				1	3011	LACH	LACII	LACII
┝	<u>S-2</u> S-3	<u>R3-7R (MOD)</u> W14-3	RIGHT TURN LANE NO PASSING ZONE		<u>x</u> x				1				
F	S-4	W14-5	METRO TRANSIT BUS STOP		X				1		1	1	
	S-5	R8-3	NO PARKING TYPE 1 OBJECT MARKER	24	X 24	7	U-SOIL	1	1	4.00			
	S-6	0M1-2 R4-7	KEEP RIGHT		X X	_			1				
	50	OM1-2	TYPE 1 OBJECT MARKER		x	-			-				
Γ	S-7	R2-1	SPEED LIMIT 30		<u>X 30</u>	- 7	U-SOIL	1	1	5.00			
ł	S-8	D11-1	BIKE ROUTE METRO TRANSIT BUS STOP	24	X 18 X				1	3.00			
Þ	Š-9	R1-1	STOP		X				î				
L	S-10		CENTRAL AVE GARDENA AVE		X X	-			1				-
ŀ		W11-2 W16-7PL	PEDESTRIAN CROSSING		Х								
	-	<u>W16-7PL</u> R1-6A	DOWN ARROW LEFT PLAQUE STATE LAW STOP FOR PED W/I X-WALK		<u>x</u> x	_							
	S-11	W11-2	PEDESTRIAN CROSSING		<del>x</del>	-			1				
		W16-7PR	DOWN ARROW RIGHT PLAQUE		X								
ŀ	5-12	R1-6A R8-3	STATE LAW STOP FOR PED W/I X-WALK NO PARKING		X X 24	7	U-SOIL	1	1	4.00			
t	S-12 S-13	R2-1	SPEED LIMIT 35		<u>x</u> 30	7	U-SOIL	i	i	5.00			
	<u>S-14</u>	<u>W11-2</u>	PEDESTRIAN CROSSING	24	<u>x</u> X 24	7			1	4.00			
ŀ	S-15 S-16	R8-3	NO PARKING METRO TRANSIT BUS STOP		<u>X 24</u> X		U-SOIL		1	4.00	1	1	
F		W11-2	PEDESTRIAN CROSSING		Х								
l		W16-7PL R1-6A	DOWN ARROW LEFT PLAQUE STATE LAW STOP FOR PED W/I X-WALK	-	<u>x</u> x	-							
l	S-17	W11-2	PEDESTRIAN CROSSING		X				1				
		W16-7PR	DOWN ARROW RIGHT PLAQUE		X								
ŀ	S-18	R1-6A R1-1	STATE LAW STOP FOR PED W/I X-WALK STOP		X X				1				
	S-19	R5-1	DO NOT ENTER		X				Ī				
ŀ	<u>S-20</u>	W16-8AP	LT MOORE LAKE PARK, GARDENA AVE RT	54	X 15	NOT USED		1		5.63		1	
l	S-21	₩2-6	ROUNDABOUT		x 30	7	U-SOIL	1					
F		W13-1P			<u>X 18</u>					2.25			
l	S-22	R6-1R R1-2	ONE WAY RIGHT YIELD		<u>x 12</u> 36 x 3		U-CONC	1		3.90			
L	S-23	R1-6A	STATE LAW STOP FOR PED W/I X-WALK	12	X 36	1	U-CONC	1		3.00			
	S-24	R6-1R R1-2	ONE WAY RIGHT YIELD	36 X	<u>X 12</u> 36 X 3	<del>م</del> 7	U-SOIL	1		3.00			
F	S-25	R6-1R	ONE WAY RIGHT	36	X 12	4	U-CONC	1		3.00			
L	3-25	R6-4A	ROUNDABOUT DIRECTIONAL (3 ARROWS)	48	X 24		U-CONC	1		8.00			
l	S-26	P2 0M1-2	GARDENA AVE TYPE 1 OBJECT MARKER	54 18	<u>X 24</u> X 18	- 7	U-CONC	1		9.00			1
,		R3-4	NO U-TURN	24	X 24					4.00			•
1	S-27	<u>R4-7</u> 0M1-2	KEEP RIGHT TYPE 1 OBJECT MARKER		<u>X 30</u> X 18		U-CONC	1		5.00			1
t	S-28	W14-3	NO PASSING ZONE		<u> </u>		U-SOIL	1		6.00			1
	S-29	<u>M2-1</u> M1-6M	JCT (BLUE) ANOKA COUNTY 35		<u>X 15</u> X 24	7	U-SOIL	1		2.19			
	3-29	W2-6	ROUNDABOUT		$\frac{24}{30}$		0-301L	1		6 25			
Γ	S-30	W2-6	ROUNDABOUT		X 30	- 7	U-SOIL	1		6.25 2.25 3.00			
ŀ		W13-1P R6-1R	15 MPH PLAQUE ONE WAY RIGHT	18 36	X 18 X 12			-		3.00			
L	S-31	R1-2	YIELD	36 X 3	36 X 3	6 '	U-CONC	1		3.90			
	S-32	R6-1R	ONE WAY RIGHT YIELD	36	<u>x 12</u> 36 x 3	c 7	U-SOIL	1		3.00			
ŀ	c 77	R1-2 R6-1R	ONE WAY RIGHT					•		3.00			
F	S-33	R6-4A	ROUNDABOUT DIRECTIONAL (3 ARROWS)	48	<u>x 12</u> <u>x 24</u>	- 4	U-CONC	1		8.00			
l	S-34	M3-1 M1-6M	ANOKA COUNTY 35		X 12 X 24		U-SOIL	1		2.00			
L		M6-2R	ARROW RIGHT (BLUE)	21	X 15	-				2.19			
	S-35	P3 0M1-2	CENTRAL AVE TYPE 1 OBJECT MARKER	18	<u>X 24</u> X 18		U-CONC	1		9.00			1
ŀ	S-36	M3-1	NORTH (BLUE)	24	X 12	7	U-SOIL	1		2.00			<u> </u>
		M1-6M W14-3	ANOKA COUNTY 35 NO PASSING ZONE	24	<u>X 24</u> 48 X 4	1 1	U-SOIL			4.00			
ŀ	S-37 S-38					NOT USED	JUSUL		L		L	I	L
Γ		W16-8AP	LT GARDENA AVE, MOORE LAKE PARK RT	54						5.63			
	S-39	<u>W2-6</u> W13-1P	ROUNDABOUT 15 MPH PLAQUE		X 30 X 18		U-SOIL	1		2.25			
F		R3-4	NO U-TURN	24	<u>X 24</u> <u>X 30</u>	- 7				2.25			
	S-40	R4-7		24	<u>X 30</u>	1	U-CONC	1		5.00			1
ŀ	c	<u>0M1-2</u> R6-1R	TYPE 1 OBJECT MARKER ONE WAY RIGHT	36	<u>X 18</u> X 12	4	11-0010			3.00			
L	S-41	R1-2	YIELD	36 X 3	<u>x 12</u> 36 x 3	6 7	U-CONC	1		3.90			
	S-42	R6-1R R1-2	ONE WAY RIGHT YIELD	36 Y	X 12 36 X 3	6 7	U-SOIL	1		3.00			
F	S-43	R6-1R	ONE WAY RIGHT	36	X 12	1	U-CONC	1		3.00			
┝		R6-4A	ROUNDABOUT DIRECTIONAL (3 ARROWS)		X 24					10.00			
	S-44	P5 0M1-2	PARK ENT TYPE 1 OBJECT MARKER	18	<u>X 24</u> X 18	7	U-CONC	1		7.00			1
ſ	S-45	W11-2	PEDESTRIAN CROSSING	30	X 30	7	U-SOIL	1		6.25			-
┞		W16-7PL R3-4	DOWN ARROW LEFT PLAQUE NO U-TURN	24 24	X 12 X 24			<u> </u>		2.00			
2	S-46	R4-7	KEEP RIGHT	24	X 30	'	U-CONC	1		5.00			
ŀ		0M1-2	TYPE 1 OBJECT MARKER	18	X 18								1
	S-47	R6-1R R1-2	ONE WAY RIGHT YIELD	36 36 X 3	<u>X 12</u> 36 X 3	6 7	U-CONC	1		3.00			
þ	S-48	R1-6A	STATE LAW STOP FOR PED W/I X-WALK	12	X 36	1	U-CONC	1		3.00			
	S-49	R6-1R R1-2	ONE WAY RIGHT YIELD	1 36	<u>x 12</u> 36 x 3	7	U-SOIL	1		3.00			ļ

SIGN AND DELINEATOR / MARKER											К
SIGN	CODE	PANEL	SIZE (WXH)	MOUNT ING HE IGHT	SUPF TYPE (1)	NUMBER	REMOVE SIGN	SIGN	SAL VAGE SIGN	INSTALL SIGN	DELINEATOR /MARKER PANEL
			INCH	FEET		POSTS	EACH	SQ FT	EACH	EACH	EACH
S-50	R6-1R R6-4A	ONE WAY RIGHT	36 X 12 48 X 24	- 4	U-CONC	1		3.00			
S-51	M3-3 M1-6M M6-2R	SOUTH (BLUE) ANOKA COUNTY 35 ARROW RIGHT (BLUE)	24 X 12 24 X 24 21 X 15	7	U-SOIL	1		2.00			
S-52	P3 0M1-2	CENTRAL AVE TYPE I OBJECT MARKER	<u>54 X 24</u> 18 X 18	- 7	U-CONC	1		9.00			1
S-53	M3-3 M1-6M R8-3	SOUTH (BLUE) ANOKA COUNTY 83 NO PARK ING	24 X 12 24 X 24 24 X 24 24 X 24	7	U-SOIL	1		2.00 4.00 4.00			
) S-54	R3-4 R4-7	NO U-TURN KEEP RIGHT	24 X 24 24 X 30	7	U-CONC	1		4.00			1
S-55	OM1-2 R2-1	TYPE 1 OBJECT MARKER SPEED LIMIT 35	18 X 18 24 X 30	4	U-SOIL	1		5.00			
						TOTAL	17	297	2	2	8

SPECIFIC NOTE(S): (1) U-CHANNEL 3\* PER FOOT BLACK POST. (2) MOUNTED BACK TO BACK.

/SB

NO. DATE BY CHK REVISIONS

> CSAH 35 at Gardena Ave Intersection Improvements ANOKA COUNTY Anoka County Highway Department

wsb

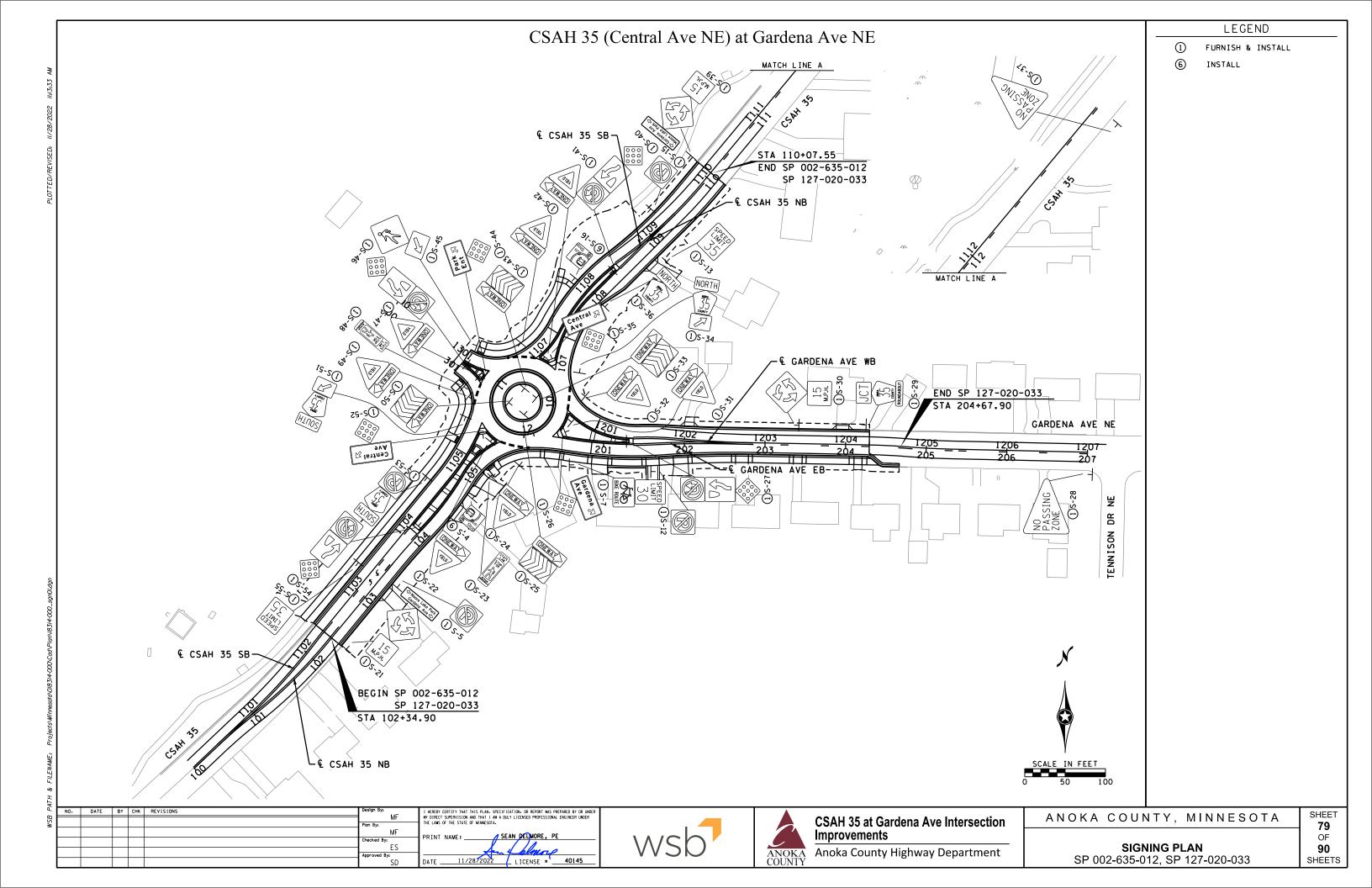
I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA. MF Plan By: MF Checked By: ES Approved By: SD



ANOKA COUNTY, MINNESOTA

SIGNING PLAN SP 002-635-012, SP 127-020-033

SHEET **78** OF 90 SHEETS

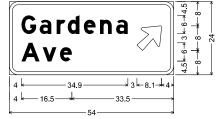




1.5" Radius, 0.4" Border, 0.4" Indent, Black on, Yellow; Standard Arrow Custom 6.0" X 4.4" 180', "Gardena Ave", D 2K; "Moore Lake Park", D 2K 75% spacing; Standard Arrow Custom 6.0" X 4.4" 0';

Moore Lake Park Gardena Ave	25 18 2 3 3 4 8 2 5 15 15
$\begin{vmatrix} & & & \\ & & & \\ 2.8 & 2 \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & $	3

1.5" Radius, 0.4" Border, 0.4" Indent, Black on, Yellow, Standard Arrow Custom 6.0" X 4.4" 180', "Moore Lake Park", D 2K 75% spacing; "Gardena Ave", D 2K; Standard Arrow Custom 6.0" X 4.4" 0',



3.0" Radius, 1.0" Border, White on, Green; "Gardena", E Mod 75% spacing; "Ave", E Mod; Arrow 3 - 10.0" 45';

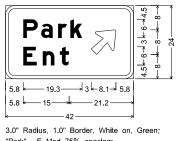
Central Ave	24
5.8 k 31.3 3 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8 5.8	

3.0" Radius, 1.0" Border, White on, Green; "Central", E Mod 75% spacing; "Ave", E Mod; Arrow 3 - 10.0" 45';



"Park", E Mod 75% spacing; "Ent", E Mod; Arrow 3 - 10.0" 45';

NO.	DATE	BY	СНК	REVISIONS	Design By: MF	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER			CCALL 25 at Cardena Ave Interregation
					Plan By:	THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					MF				Improvements
					Checked By:		$\Lambda \Lambda / C^{*} Y \Lambda^{*}$		
		-			ES	for a plana			Analya County Highway Donortmont
					Approved By:			ANOKA	Anoka County Highway Department
					SD	DATE11/28/2022 LICENSE #40145		COUNTY	



## ALL DIMENSIONS ARE IN INCHES.

ΑΝΟΚΑ	COUNTY,	MINNESOTA

SIGNING PLAN SP 002-635-012, SP 127-020-033

SHEET 80 OF 90 SHEETS

PAVEMENT MARKING TABULATION								L			
		MULTI-C	OMPONENT				PREFO	RM THERMOPL	ASTIC		
LOCATION	4" SOLID LINE		4" BROKEN LINE	4" DOUBLE SOLID LINE			12" DOTTED LINE	24" SOLID LINE		CROSSWALK	PAVEMENT MESSAGE
	WHITE	YELLOW	YELLOW	YELLOW	WHITE	YELLOW	WHITE	WHITE	YELLOW		LEFT ARROW
	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ FT	SQ FT
SP 002-635-012											
CSAH 35											
STA 100+00 TO STA 105+57 (1)	820	570	120	440		87		15	45	144	31
ROUNDABOUT					63	130	20				
STA 106+91 TO STA 111+00 (2)	554	670	90	245		88			10		
GARDENA AVE NE											
PARK ENTRANCE						68		12		96	
ROUNDABOUT					58	130	20				
STA 200+36 TO STA 208+00 (3)	847	538	90	299		92			19		
SP 002-635-012 SUBTOTAL	2221	1778	300	984	121	595	40	27	74	240	31
SP 002-635-012 TOTAL	39	99	300	984	7	6	40	1	01	240	31

NOTES: (1) BEGIN CENTERLINE AND EDGELINE STRIPING AT STATION 100+00. (2) END CENTERLINE STRIPING AT STATION 114+40. (3) END CENTERLINE AND EDGELINE STRIPING AT STATION 207+24.

	NO.	DATE	BY	СНК	REVISIONS	Design By: MF	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER
						Plan By:	THE LAWS OF THE STATE OF MINNESOTA.
ł						MF Checked By:	PRINT NAME: SEAN DELMORE, PE
ł						ES Approved By:	San Lalmore
t						SD	DATE11/28/2022LICENSE #40145



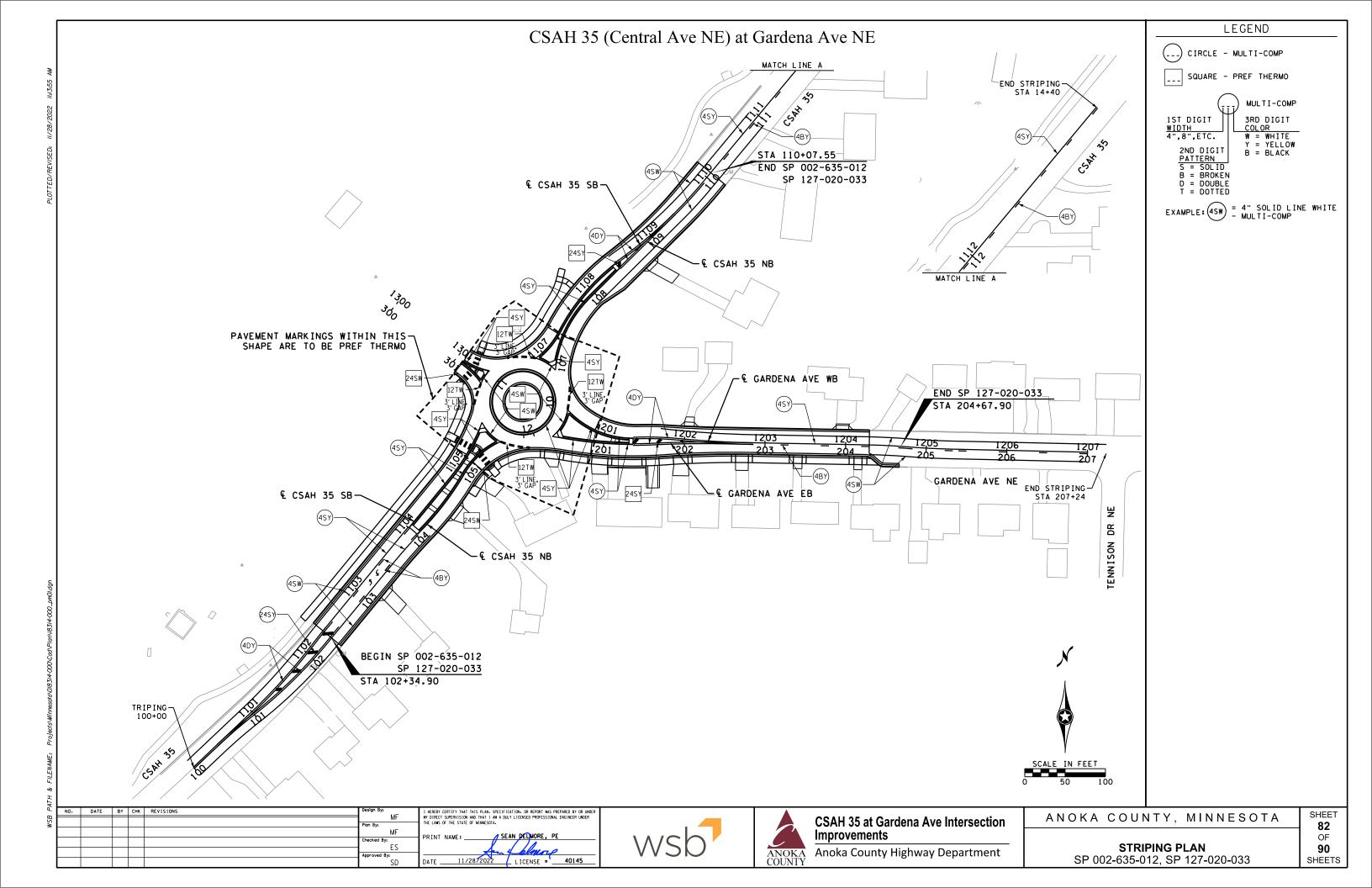


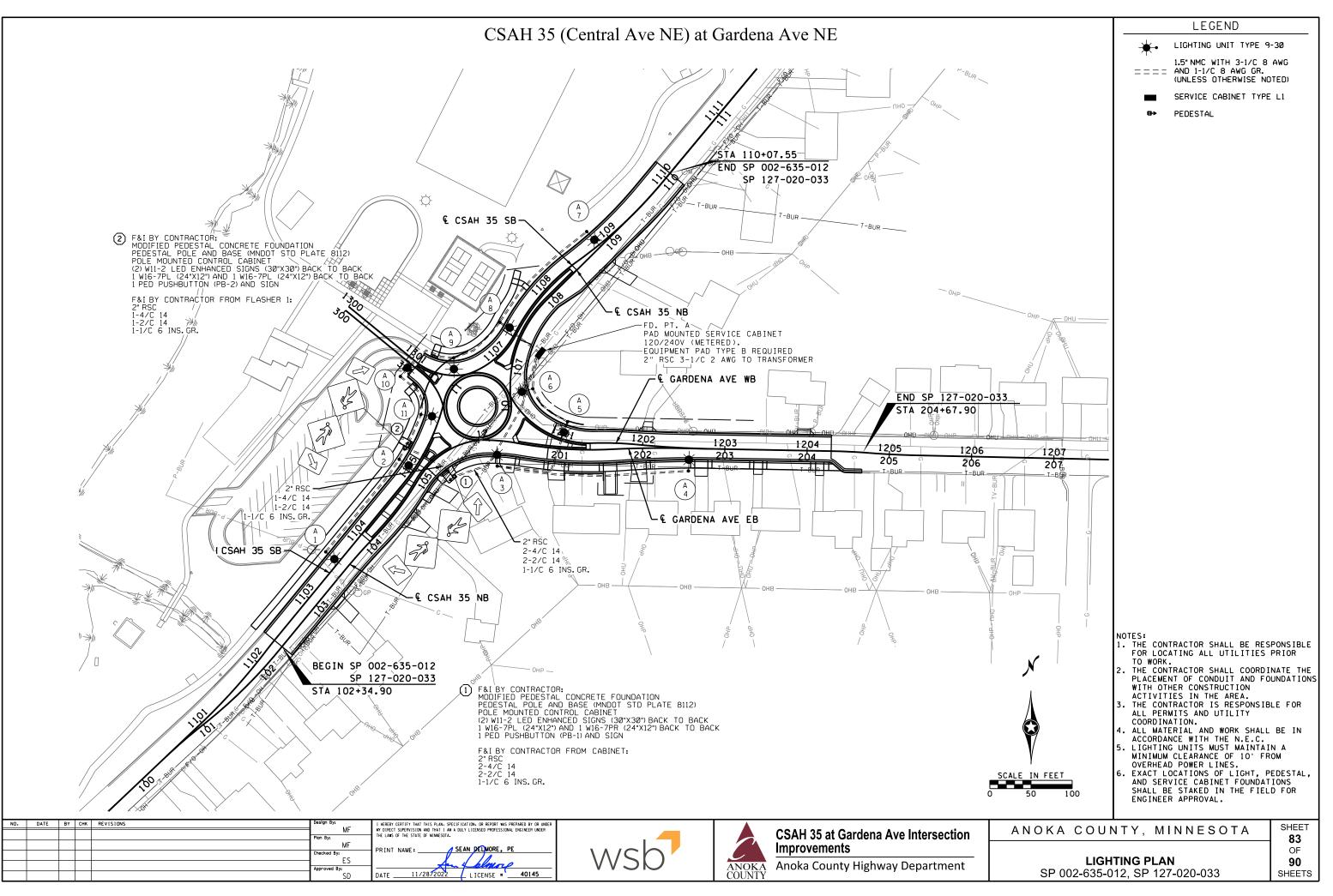
CSAH 35 at Gardena Ave Intersection Improvements ANOKA COUNTY Anoka County Highway Department

ANOKA COUNTY, MINNESOTA

SHEET **81** OF 90 SHEETS

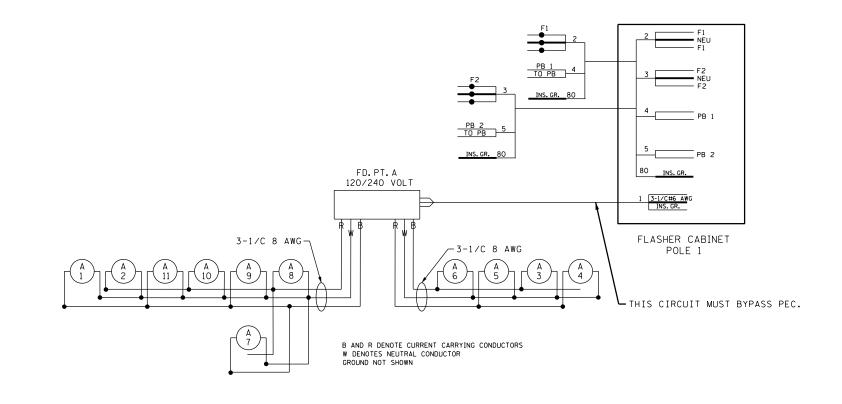
STRIPING PLAN SP 002-635-012, SP 127-020-033





	STREET LIGHTING TABULATION							
ITEM	ITEM DESCRIPTION	UNIT	ANOKA COUNTY SP 002-635-012	CITY OF FRIDLEY SP 127-020-033	TOTAL			
2545.502	LIGHTING UNIT TYPE 9-30	EACH	6	5	11			
2545.502	2545.502 LIGHT FOUNDATION DESIGN E		6	5	11			
2545.502	SERVICE CABINET -TYPE L1	EACH	1		1			
2545.502	SERVICE EQUIPMENT	EACH	1		1			
2545.502	EQUIPMENT PAD B	EACH	1		1			
2545.503	1.5" NON-METALLIC CONDUIT	LINFT	600	600	1200			
2545.503	UNDERGROUND WIRE 1/C 8 AWG	LINFT	2460	2460	4920			
2565.616	PEDESTRIAN CROSSWALK FLASHER SYSTEM	SYSTEM	1		1			

FEEDPOINT A							
	LIGHT	UNDATI	ONS				
NO.	STATION	LT	RT	LOCATION	TYPE	FOUNDATION	
1	1103+56	Х		CSAH 35 SB	9-30	DESIGN E	
2	1105+06	Х		CSAH 35 SB	9-30	DESIGN E	
3	200+23		X	GARDENA AVE EB	9-30	DESIGN E	
4	202+50		X	GARDENA AVE EB	9-30	DESIGN E	
5	1201+00	Х		GARDENA AVE WB	9-30	DESIGN E	
6	106+68		X	CSAH 35 NB	9-30	DESIGN E	
7	108+86	Х		CSAH 35 SB	9-30	DESIGN E	
8	107+36	Х		CSAH 35 SB	9-30	DESIGN E	
9	1106+45	Х		CSAH 35 SB	9-30	DESIGN E	
10	301+03		X	PARK ACCESS EB	9-30	DESIGN E	
11	105+70	Х		CSAH 35 SB	9-30	DESIGN E	

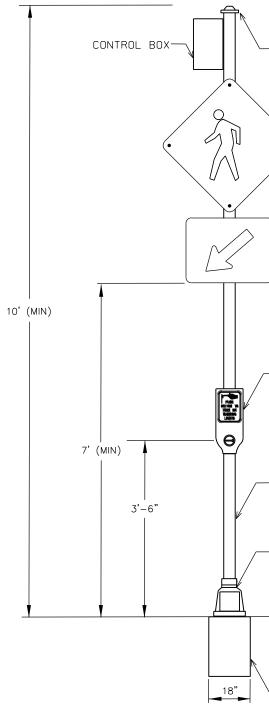


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					Plan By:	MT DIRECT SUPERVISION AND THAT I AM A DULT LICENSED PHOPESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					MF	PRINT NAME: / SEAN DELMORE, PE			Improvements
					Checked By:		$\sqrt{\sqrt{Cr}}$		
					L D Approved By:	Am felmore	VVJN	ANOKA	Anoka County Highway Department
					SD	DATE11/28/2022LICENSE #40145		COUNTY	

ΑΝΟΚΑ	СОUNTY,	MINNESOTA

LIGHTING PLAN SP 002-635-012, SP 127-020-033 SHEET 84 OF 90 SHEETS

- 9′ --LED LUMINAIRE WITH WIRE HOLDER RADIUS CHART (ENGLISH) MAST ARM LENGTH RADIUS 5 6 9 8 12 10 30' STAINLESS STEEL HIGH BASE ALUMINUM TRANSFORMER BASE 3' BEHIND TRAIL OR IN FRONT OF TRAIL 9' BEHIND CURB TRAIL TRAIL ROADWAY LIGHT BASE DESIGN E STANDARD PLATE 8127 LIGHTING UNIT TYPE 9-30 PLACEMENT DETAIL (NON-BREAKAWAY) NOT TO SCALE



LED ENHANCED PEDESTRI

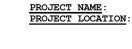
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Ξ	NO.	DATE	ВҮ СНК	REVISIONS	Design By: ME	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER			
žΓ					Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
`					MF				Improvements
					Checked By:	PRINT NAME: SEAN DELMORE, PE			improvemento
					Approved But	Ann folmore	VVSN	ANOKA	Anoka County Highway Department
					SD	DATE11/28/2022 LICENSE *40145		COUNTY	

PATH & FILENAME: Involid expres.

-	LIGHTING PLAN SP 002-635-012, SP 127-020-033	85 OF 90 SHEETS
	ANOKA COUNTY, MINNESOTA	SHEET
[AN	CROSSING SIGN	
	MODIFIED PEDESTAL FOUNDATION 57 MINIMUM DEPTH), PER MNDOT STD PLATE 8112	
<u> </u>	MODIFIED PEDESTAL FOUNDATION	
PEF	R MNDOT STD PLATE 8122	
- PEC	DESTAL BASE AND WIND COLLAR R MNDOT STD PLATE 8122	
MN[	DESTAL POLE PER DOT STD PLATE 8122	
— S( Pl	DLID STATE JSH BUTTON	
	(1) W16-7PL (24"X12") (1) W16-7PR (24"X12")	
	2"	

- ORNAMENTAL CAP

— (2) W11-2 (30"X30") LED ENCHANCED FLASHING SIGN



#### ANOKA COUNTY CSAH 35 & GARDENA AVENUE PROJECT NUMBER: STREET: CSAH 35 CITY: FRIDLEY STATE: MINNESOTA

ZIP: 55432

## WSB 018314-000

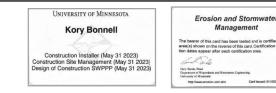
COUNTY: ANOKA LATITUDE/LONGITUDE: 45.0750/-93.2420

THE PLANNED SCOPE OF THE PROJECT INCLUDES:

ANOKA COUNTY IS PROPOSING TO RECONSTRUCT CSAH 35 IN FRIDLEY, MINNESOTA. THE PROJECT INCLUDES RECONSTRUCTION OF CSAH 35 BETWEEN HACKMAN AVENUE AND JUST NORTH OF GARDENA AVENUE NORTHEAST. ADDITIONAL PROJECT ACTIVITIES INCLUDE ROUNDABOUT CONSTRUCTION, LIGHTING, AND ADA IMPROVEMENTS.

TENTATIVE CONSTRUCTION SCHEDULE (OPERATOR SHOULD PROVIDE E	STIMATED CONSTRUCTION SCHEDULE TO THE ENGINEER)		
CONSTRUCTION ACTIVITIES:	ESTIMATED DATES OF SOIL DISTURBANCE ACTIVITIES:		
TEMPORARY SEDIMENT CONTROL BMPS & REMOVALS	SEPT 2022		
GRADING & UTILITY WORK	SEPT - NOV 2022		
CURB & PAVEMENT	SEPT - NOV 2022		
FINAL STABILIZATION	NOV 2022		

#### PROJECT PERSONNEL AND TRAINING SWPPP DEVELOPER: WSB (KORY BONNELL) 701 XENIA AVE S, SUITE 300 GOLDEN VALLEY, MN 55416 612-749-2799/KBONNELL@WSBENG.COM



CONTRACTOR TO PROVIDE CERTIFICATION OF EROSION CONTROL OFFICER AND ANY OTHER CREW MEMBERS WHO WILL WORK ON THE IMPLEMENTATION OF THE SWPPP AND THE INSTALLATION, INSPECTION, AND MAINTENANCE OF THE EROSION PREVENTION AND SEDIMENT CONTROL BMPS BEFORE, DURING, AND AFTER CONSTRUCTION UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA. PROVIDE PROOF OF CERTIFICATION AT THE PRECONSTRUCTION MEETING. WORK WILL NOT BE ALLOWED TO COMMENCE UNTIL PROOF OF CERTIFICATION HAS BEEN PROVIDED TO THE PROJECT ENGINEER.

#### CHAIN OF RESPONSIBILITY

ANOKA COUNTY AND THE CONTRACTOR ARE CO-PERMITTEES FOR THE NPDES CONSTRUCTION GENERAL PERMIT. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL ASPECTS OF THE NPDES CONSTRUCTION PERMIT AT ALL TIMES UNTIL THE NOTICE OF TERMINATION (NOT) HAS BEEN FILED WITH THE MPCA.

NAME	COMPANY	TITLE	PHONE
CHRIS OSTERHUS	ANOKA COUNTY	OWNER CONTACT	763-324-3189
	CONTRACTOR		
	CONTINCTON .		

#### AGENCY CONTACTS

ORGANIZATION	CONTACT NAME	PHONE
MPCA (EMERGENCY) 24 HOUR	STATE DUTY OFFICER	1-800-422-0798
MPCA	SARAH KAMRATH	651-757-2855
ANOKA COUNTY LGU		
RICE CREEK WATERSHED DISTRICT	NICK TOMCZIK	763-398-3070

#### LOCATION OF SWPPP REQUIREMENTS

THE REQUIRED SWPPP ELEMENTS MAY BE LOCATED IN MANY PLACES WITHIN THE PLAN SET AS WELL AS IN THE PROJECT MANUAL, MNDOT SPEC BOOK, OR ON FILE WITH THE PROJECT OWNER.

DESCRIPTION	LOCATION
TEMPORARY/PERMANENT EROSION CONTROL MEASURES	PLAN SET SHEET 90
DIRECTION OF FLOW	PLAN SET SHEETS 90
CONSTRUCTION NOTES & STANDARD PLATES	PLAN SET SHEET 9
DRAINAGE PLAN & CONSTRUCTION PLAN	PLAN SET SHEETS 70 - 73 & 58 - 60
BMP TABULATION	PLAN SET 6
STORMWATER CALCULATIONS	DRAINAGE REPORT & HYDRAULIC REPORT. AVAILABLE UPON REQUEST

#### RECEIVING WATERS

A SPECIAL AND IMPAIRED WATERS SEARCH WAS COMPLETED USING THE MPCA SEARCH ENGINE ON 08/31/2022. BASED ON THIS REVIEW, THE FOLLOWING SPECIAL/IMPAIRED WATERS (WITH CONSTRUCTION RELATED IMPAIRMENTS) ARE LOCATED WITHIN ONE MILE OF, AND DOWNSTREAM OF, ANY PROJECT DISCHARGE POINTS. PARTS 23.9 & 23.10 OF THE NPDES PERMIT APPLY.

WATERBODY	IMPAIRMENT (S)
EAST MOORE LAKE	NUTRIENTS
SANDY LAKE	NUTRIENTS

### AREAS OF ENVIRONMENTAL SENSITIVITY (AES) AND INFESTED WATERS

IN ADDITION TO THE LIST OF SPECIAL AND IMPAIRED WATERS, THE CONTRACTOR SHALL BE AWARE THAT THERE ARE EXISTING STORMWATER FACILITIES WITHIN AND NEAR THE PROJECT BOUNDARY. THERE IS A MAP OF KNOWN NATURAL RESOURCES ON THE LAST PAGE OF THE SWPPP NARRATIVE. AREAS OF ENVIRONMENTAL SENSITIVITY ARE ALSO CALLED OUT ON THE PLAN SHEETS.

A PROJECT WIDE GEOTECHNICAL REPORT WAS COMPLETED DURING THE DESIGN PHASE. GLACIAL TILL IS PREDOMINATING ALONG MOST OF THE ALIGNMENT. THE GLACIAL TILL CONSISTS OF A MIXTURE OF CLAY, SILT AND SAND. THESE SOILS MAY CONTAIN POCKETS OF

NO.	DATE	ВҮ СНК	REVISIONS	Design By:	I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION, OR REPORT WAS PREPARED BY OR UNDER				ANOKA COUNTY. MINNESOTA	SHEET
				Plan By:	MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.		🛛 🧢 CSAH	1 35 at Gardena Ave Intersection	ANOKA COUNTY, MINNESOTA	86
				AJF	DO THE NAME A ANTONY & PLANMAN DE			ovements		
				Checked By:	PRINT NAME: ANDREW J PLONMAN, PE				ATODM WATER ROLLUTION RECVENTION REAN	
				AJP Approved By:	Alr	VVSN	ANOKA Anoka	a County Highway Department	STORM WATER POLLUTION PREVENTION PLAN	
				AJP	DATE11/28/2022 LICENSE #44200		ANOKA Anoka COUNTY		SP 002-635-012, SP 127-020-033	SHEETS
					V					

BE FOUND ON FIGURE 1. SWPPP RESOURCE MAP.

NATIVE TOPSOIL WILL BE STRIPPED; IF MATERIAL NEEDS TO BE STOCKPILED, APPROPRIATE ACTION WILL TAKE PLACE TO ENSURE THE STOCKPILES HAVE ALL PROPER BMPS IN PLACE ACCORDING TO THIS SWPPP AND THE NPDES PERMIT.

#### ENVIRONMENTAL REVIEW

STORMWATER POLLUTION PREVENTION PLAN (SWPPP) NARRATIVE

NO FORMAL ENVIRONMENTAL REVIEW WAS REQUIRED FOR THIS PROJECT.

WETLANDS: THIS PROJECT INCLUDES PERMANENT WETLAND IMPACTS WHICH WILL BE MITIGATED THROUGH BWSR'S ROAD BANK WETLAND CREDITS.

THREATENED/ENDANGERED SPECIES: ANOKA COUNTY LISTS THE NORTHERN LONG-EARED BAT AS THREATENED/ENDANGERED SPECIES WITHIN THE COUNTY. BASED ON THE CONSTRUCTION ACTIVITIES, IT IS DETERMINED THAT THE PROJECT WILL HAVE NO EFFECT ON THESE SPECIES OR THEIR HABITATS. HOWEVER, IF THESE SPECIES ARE FOUND, CONTRACTOR TO STOP WORK IMMEDIATELY FOR FURTHER INVESTIGATION.

DRINKING WATER/WELLS: ACCORDING TO THE MDH, THE PROJECT IS LOCATED IN THE MINNEAPOLIS, BROOKLYN CENTER, & FRIDLEY DRINKING WATER SUPPLY MANAGEMENT AREA (DWSMA). THESE DWSMAS ARE CLASSIFIED AS MODERATE VULNERABILITY. SPECIAL CARE MUST BE TAKEN DURING CONSTRUCTION TO PREVENT AND IMMEDIATELY RESPOND TO ALL SPILLS. IN ADDITION, THERE ARE ZERO (0) WELLHEAD PROTECTION AREAS WITHIN/ADJACENT TO THE PROJECT.

CONTAMINATED PROPERTIES: THE MPCA'S "WHAT'S IN MY NEIGHBORHOOD" DATABASE WAS REVIEWED ON 08/29/2022. THE RESULTS OF THIS REVIEW SHOW NO CONTAMINATED PROPERTIES LOCATED ADJACENT TO THE PROJECT ALIGNMENT. IF CONTAMINATED MATERIAL, CONTAMINATED WATER, AND/OR REGULATED MATERIALS ARE FOUND, CREWS ARE TO STOP WORK IMMEDIATELY FOR FURTHER INVESTIGATION/TESTING.

FLOOD CONTINGENCY PLAN: PROJECT ACTIVITIES ARE NOT LOCATED WITHIN THE 100-YEAR FLOODPLAIN OR FLOODWAY; HOWEVER, THE PROJECT ENGINEER (AT THEIR DISCRETION) MAY REQUIRE A PREVENTATIVE FLOOD CONTINGENCY PLAN FOR SPECIFIC PROJECT ACTIVITIES AND AREAS IF SEASONAL PRECIPITATION POSES A POTENTIAL RISK OF FLOODING WORK AREAS WITHIN THE PROJECT LIMITS. THIS PLAN SHALL BE SUBMITTED BY THE OPERATOR TO THE PROJECT ENGINEER FOR APPROVAL A MINIMUM OF 72 HOURS PRIOR TO THE SCHEDULED WORK AND/OR DURING ACTIVE WORK WITHIN THE AREA OF POTENTIAL RISK OF FLOODING. NO WORK CAN COMMENCE IN THE AREA UNTIL WRITTEN APPROVAL HAS BEEN GRANTED BY THE PROJECT ENGINEER.

AQUATIC INVASIVE SPECIES: NO IN WATER WORK IS ANTICIPATED WITH THIS PROJECT, THEREFORE, AQUATIC INVASIVE SPECIES REGULATIONS DO NOT APPLY.

### LAND FEATURE CHANGES

TOTAL AREA TO BE DISTURBED = 2.04 ACRES IMPERVIOUS AREA: PRE-CONSTRUCTION = 1.55 ACRES/POST-CONSTRUCTION = 1.61 ACRES NET INCREASE OF IMPERVIOUS AREA = 0.06 ACRES

#### LONG TERM MAINTENANCE AND OPERATION:

THE NPDES PERMANENT STORMWATER TREATMENT SYSTEM (PART 15.1) IS NOT REQUIRED BECAUSE THE NET NEW IMPERVIOUS AREA CREATED BY THE PROJECT IS LESS THAN ONE ACRE.

#### STABILIZATION TIME FRAMES

AREA	TIME FRAME	NOTES
EXPOSED AREAS	IMMEDIATELY AND NO LATER THAN 7 DAYS OF BEING UNWORKED	1, 4, 5
LAST 200 LINEAL FEET OF DRAINAGE DITCH/SWALE	WITHIN 24 HOURS OF CONNECTION TO SURFACE WATER/PROPERTY EDGE	1, 2, 3
REMAINING PORTIONS OF DRAINAGE DITCH OR SWALE	7 DAYS	1, 3
PIPE AND CULVERT OUTLETS	24 HOURS	
STOCKPILES	7 DAYS	1

INITIATE STABILIZATION IMMEDIATELY WHEN CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED ON ANY PORTION OF THE SITE. COMPLETE STABILIZATION WITHIN THE TIME FRAME LISTED. IN MANY INSTANCES THIS WILL REQUIRE STABILIZATION TO OCCUR MORE THAN ONCE DURING THE COURSE OF THE PROJECT. TEMPORARY SOIL STOCKPILES WITHOUT SIGNIFICANT CLAY OR SILT AND STOCKPILED AND CONSTRUCTED ROAD BASE ARE EXEMPT FROM THE STABILIZATION REQUIREMENT.

2. STABILIZE WETTED PERIMETER OF DITCH (I.E. WHERE THE DITCH GETS WET). 3. APPLICATION OF MULCH, HYDROMULCH, TACKIFIER AND POLYACRYLAMIDE ARE NOT ACCEPTABLE STABILIZATION METHODS IN THESE AREAS.

- 4. STABILIZE ALL AREAS OF THE SITE PRIOR TO THE ONSET OF WINTER. ANY WORK STILL BEING PERFORMED WILL BE MULCHED OR
- BLANKETED WITHIN THE TIME FRAMES IN THE NPDES PERMIT. 5. KEEP DITCHES AND EXPOSED SOILS IN AN EVEN ROUGH GRADED CONDITION IN ORDER TO BE ABLE TO APPLY EROSION CONTROL
- MULCHES, HYDROMULCHES, AND BLANKETS.

#### SITE INSPECTION AND MAINTENANCE

THE EROSION CONTROL OFFICER IS TO INSPECT THE ENTIRE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS DURING ACTIVE CONSTRUCTION AND WITHIN 24 HOURS AFTER A RAINFALL EVENT GREATER THAN 0.5 INCHES IN 24 HOURS. THE OPERATOR SHALL PROVIDE A RAINFALL GAUGE ON-SITE AT VARIOUS MILE INTERVALS ALONG THE ALIGNMENT. INSPECT ALL TEMPORARY AND PERMANENT PROJECT BMPS UNTIL THE SITE HAS UNDERGONE FINAL STABILIZATION AND THE NOT HAS BEEN SUBMITTED. INSPECT SURFACE WATER INCLUDING DRAINAGE DITCHES FOR SIGNS OF EROSION AND SEDIMENT DEPOSITION. INSPECT CONSTRUCTION SITE VEHICLE EXIT LOCATIONS FOR EVIDENCE OF TRACKING ONTO PAVED SURFACES. INSPECT SURROUNDING PROPERTIES FOR EVIDENCE OF OFF-SITE

GRAVEL, COBBLES OR BOULDERS. THE GLACIAL TILLS ARE OVERLAIN IN AREAS BY LACUSTRINE OR EOLIAN SANDS. ADDITIONAL SOIL INFORMATION CAN BE FOUND IN THE GEOTECHNICAL REPORT, LOCATED WITHIN THE PROJECT SPECIFICATIONS. SOIL CLASSIFICATIONS FOR HIGHLY ERODIBLE LAND (HEL), POTENTIALLY HIGHLY ERODIBLE LAND (PHEL), AND NOT HIGHLY ERODIBLE LAND (NHEL) SOILS CAN

SEDIMENT ACCUMULATION. ALL INSPECTIONS AND MAINTENANCE CONDUCTED MUST BE RECORDED IN WRITING BY THE OPERATOR AND RETAINED WITH THE SWPPP. SUBMIT INSPECTION REPORTS IN A FORMAT THAT IS ACCEPTABLE TO THE PROJECT ENGINEER. RECORDS OF EACH INSPECTION AND MAINTENANCE ACTIVITY SHALL INCLUDE:

- A. DATE, TIME, AND NAME OF PERSON(S) CONDUCTING INSPECTIONS;
- B. FINDINGS OF INSPECTIONS, INCLUDING RECOMMENDATIONS FOR CORRECTIVE ACTIONS;
- C. CORRECTIVE ACTIONS TAKEN (INCLUDING DATES, TIMES, AND PARTY COMPLETING MAINTENANCE ACTIVITIES); INCLUDING DOCUMENTATION/PHOTOS OF IMPLEMENTED BMPS INTENDED TO CORRECT A PROBLEM BUT FAILED.
- D. DATE AND AMOUNT OF ALL RAINFALL EVENTS GREATER THAN 0.5 INCHES IN 24 HOURS;
- E. DOCUMENTATION OF CHANGES MADE TO THE SWPPP.

REPLACE, REPAIR OR SUPPLEMENT ALL NONFUNCTIONAL BMPS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY UNLESS LISTED DIFFERENTLY BELOW:

- A. REPAIR, REPLACE, OR SUPPLEMENT PERIMETER CONTROL DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT OF THE DEVICE. COMPLETE REPAIRS BY THE END OF THE NEXT BUSINESS DAY FOLLOWING DISCOVERY.
- B. REPAIR OR REPLACE INLET PROTECTION DEVICES WHEN THEY BECOME NONFUNCTIONAL OR SEDIMENT REACHES 1/2 THE HEIGHT AND/OR DEPTH OF THE DEVICE.
- C. REMOVE ALL DELTAS AND SEDIMENT DEPOSITED IN SURFACE WATERS INCLUDING DRAINAGE WAYS, CATCH BASINS, AND OTHER DRAINAGE SYSTEMS. STABILIZE ANY AREAS THAT ARE DISTURBED BY SEDIMENT REMOVAL OPERATIONS. SEDIMENT REMOVAL AND STABILIZATION MUST BE COMPLETED WITHIN 7 DAYS OF DISCOVERY.
- D. REMOVE TRACKED SEDIMENT FROM PAVED SURFACES BOTH ON AND OFF SITE WITHIN ONE (1) CALENDAR DAY OF DISCOVERY. STREET SWEEPING MAY HAVE TO OCCUR MORE OFTEN TO MINIMIZE OFF SITE IMPACTS. LIGHTLY WET THE PAVEMENT PRIOR TO SWEEPING.
- E. MAINTAIN ALL BMPS UNTIL WORK HAS BEEN COMPLETED, SITE HAS GONE UNDER FINAL STABILIZATION, AND THE NOT HAS BEEN SUBMITTED TO THE MPCA.

### CONSTRUCTION ACTIVITY REQUIREMENTS: EROSION/SEDIMENT CONTROL, PROCEDURES, & MAINTENANCE STANDARDS

- AMEND THE SWPPP AND DOCUMENT ALL CHANGES TO THE SWPPP AND ASSOCIATED PLAN SHEETS IN A TIMELY MANNER. SWPPP AMENDMENTS AND SITE PLANS WILL BE PREPARED BY THE OPERATOR AND SUBMITTED TO THE OWNER FOR REVIEW AND WRITTEN APPROVAL BY THE PROJECT OWNER (OR DESIGNATED REPRESENTATIVE). STORE THE SWPPP AND ALL AMENDMENTS ON SITE AT ALL TIMES
- 2. PREPARE AND SUBMIT A SITE MANAGEMENT PLAN FOR THE ENGINEER'S ACCEPTANCE FOR STAGING/STOCKPILE MANAGEMENT AREAS, CONCRETE MANAGEMENT, CONCRETE SLURRY APPLICATION AREAS, SPILL CONTAINMENT PLAN, WETLAND MANAGEMENT PLAN, VEGETATION PRESERVATION & MAINTENANCE PLAN, WORK IN AND NEAR AREAS OF ENVIRONMENTAL SENSITIVITY, AREAS IDENTIFIED IN THE PLANS AS "SITE MANAGEMENT PLAN AREA", ANY WORK THAT WILL REQUIRE DEWATERING, ANY ADDITIONAL PLANS LISTED IN THE PROJECT SPECIFICATIONS, AND AS REQUIRED BY THE ENGINEER. SUBMIT ALL SITE MANAGEMENT PLANS TO THE ENGINEER IN WRITING. ALLOW A MINIMUM OF 7 DAYS FOR THE PROJECT ENGINEER TO REVIEW AND ACCEPT SITE MANAGEMENT PLAN SUBMITTALS. WORK WILL NOT BE ALLOWED TO COMMENCE IF A SITE MANAGEMENT PLAN IS REQUIRED UNTIL ACCEPTANCE HAS BEEN GRANTED BY THE ENGINEER. THERE WILL BE NO EXTRA TIME ADDED TO THE CONTRACT DUE TO THE UNTIMELY SUBMITTAL.
- THERE IS NO CONSTRUCTION PHASING OR STAGING DEFINED BY THE OWNER FOR THIS PROJECT. THE SCHEDULE FOR INSTALLING TEMPORARY BMPS SHALL BE INCORPORATED INTO THE OPERATOR'S WEEKLY SCHEDULE FOR EACH CONSTRUCTION STAGE AND PRESENTED TO THE OWNER'S REPRESENTATIVE.
- 4. BURNING OF ANY MATERIAL IS NOT ALLOWED WITHIN PROJECT BOUNDARY.
- 5. DO NOT DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS. DELINEATE AREAS NOT TO BE DISTURBED AND WETLANDS (EVEN AREAS THAT ARE PERMITTED FOR CONSTRUCTION) PRIOR TO STARTING GROUND DISTURBING ACTIVITIES. IF IT BECOMES NECESSARY TO DISTURB AREAS OUTSIDE OF THE CONSTRUCTION LIMITS, OBTAIN WRITTEN PERMISSION FROM THE PROJECT ENGINEER PRIOR TO PROCEEDING. PRESERVE ALL NATURAL BUFFERS SHOWN ON THE PLANS.
- ROUTE STORMWATER AROUND UNSTABILIZED AREAS OF THE SITE WHENEVER FEASIBLE. PROVIDE EROSION CONTROL AND VELOCITY DISSIPATION DEVICES AS NEEDED TO KEEP CHANNELS FROM ERODING AND TO PREVENT NUISANCE CONDITIONS AT THE OUTLET.
- 7. DIRECT DISCHARGE FROM BMPS TO VEGETATED AREAS WHENEVER FEASIBLE. PROVIDE VELOCITY DISSIPATION DEVICES AS NEEDED TO PREVENT EROSTON.
- 8. LOCATE PERIMETER CONTROL ON THE CONTOUR TO CAPTURE OVERLAND, LOW-VELOCITY SHEET FLOWS DOWN GRADIENT OF ALL EXPOSED SOILS AND PRIOR TO DISCHARGING TO SURFACE WATERS. PLACE J-HOOKS AT A MAXIMUM OF 100-FOOT INTERVALS.
- 9. ALL STOCKPILES MUST HAVE PERIMETER SEDIMENT CONTROLS IMPLEMENTED AND MAINTAINED AT ALL TIMES. PILES CANNOT BE PLACED IN BUFFER AREAS OR SURFACE WATERS, INCLUDING STORMWATER CONVEYANCES SUCH AS CURB AND GUTTER SYSTEMS, OR CONDUITS AND DITCHES UNLESS THERE IS A BYPASS IN PLACE TO PREVENT STORMWATER RUN-ON INTO THE STOCKPILE.
- 10. STEEP SLOPES MAY BE TEMPORARILY CREATED DURING GRADING OPERATIONS. STABILIZATION OF STEEP SLOPES (3:1 OR GREATER) SHALL BE PROPERLY CAT-TRACKED AND STABILIZED PER THE EROSION CONTROL PLAN. LONG SLOPES CAN BE BROKEN UP WITH SEDIMENT CONTROL LOGS IF EROSION IS EVIDENT.
- 11. DITCH CHECKS WILL BE PLACED AS INDICATED ON THE PLANS DURING ALL PHASES OF CONSTRUCTION.
- 12. ALL STORM DRAIN INLETS, THAT RECEIVE PROJECT STORMWATER, MUST BE PROTECTED BY APPROPRIATE BMPS DURING CONSTRUCTION UNTIL ALL SOURCES WITH POTENTIAL FOR DISCHARGING TO THE INLET HAVE BEEN STABILIZED. INLET PROTECTION MAY BE REMOVED FOR A PARTICULAR INLET IF A SPECIFIC SAFETY CONCERN (STREET FLOODING/FREEZING) HAS BEEN IDENTIFIED AND THE PERMITTEE (S) HAS RECEIVED WRITTEN CORRESPONDENCE FROM THE JURISDICTIONAL AUTHORITY VERIFYING THE NEED FOR REMOVAL. WRITTEN CORRESPONDENCE MUST BE DOCUMENTED IN THE SWPPP.
- 13. SILT FENCE IS NOT AN ACCEPTABLE CATCH BASIN INLET PROTECTION BMP. CONTACTOR SHALL CLEAN, REMOVE AND DISPOSE OF SEDIMENT, AND/OR REPLACE STORM DRAIN INLET PROTECTION ON A ROUTINE BASIS TO ENSURE THE DEVICE IS FULLY FUNCTIONAL PRIOR TO THE NEXT FORECASTED PRECIPITATION EVENT (30% OR GREATER).
- 14. DISCHARGE TURBID OR SEDIMENT LADEN WATER TO TEMPORARY SEDIMENT BASINS WHENEVER FEASIBLE. IN THE EVENT THAT IT IS NOT FEASIBLE TO DISCHARGE THE SEDIMENT LADEN WATER TO A TEMPORARY SEDIMENT BASIN, THE WATER MUST BE TREATED SO THAT IT DOES NOT CAUSE A NUISANCE CONDITION IN THE RECEIVING WATERS OR TO DOWNSTREAM LANDOWNERS. CLEAN OUT ALL PERMANENT STORMWATER BASINS REGARDLESS OF WHETHER USED AS TEMPORARY SEDIMENT BASINS/TRAFS TO THE DESIGN CAPACITY AFTER COMPLETING ALL UP-GRADIENT LAND DISTURBING ACTIVITY. USE A SKIMMER DEVICE FOR BASIN DRAINING.
- 15. PROVIDE STABILIZATION IN ANY TRENCHES CUT FOR DEWATERING OR SITE DRAINING PURPOSES.
- 16. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN AND NARRATIVE TO THE PROJECT ENGINEER FOR APPROVAL 7 DAYS PRIOR TO UNDERTAKING THESE ACTIVITIES. DEWATERING PLAN MUST INCLUDE BMP'S TO PREVENT SEDIMENT TRANSPORT, EROSION, AND ADVERSE IMPACTS TO DOWNSTREAM RECEIVING WATERS. THE DEWATERING PLAN MUST ALSO INCLUDE ANY SPECIFIC CHEMICAL TREATMENTS (FLOC, POLYMERS, ETC.) THAT WILL BE USED. THE CONTRACTOR IS RESPONSIBLE TO OBTAIN ANY PERMIT NECESSARY FOR THESE ACTIVITIES; THE DEWATERING PLAN AND DNR APPROPRIATIONS PERMIT WILL BECOME PART OF THE SWPPP.

#### TEMPORARY & PERMANENT EROSION CONTROL BMPS

SEED MIX: SEED MIX SHALL BE USED IN CONSTRUCTION AND REVEGETATION PROJECTS IN ORDER TO ENHANCE SOIL NUTRIENT AVAILABILITY AND BIOLOGICAL SOIL STRUCTURE, ENCOURAGE NATIVE PLAN SUCCESSION, REDUCE EROSION, AND DISCOURAGE INVASIVE PLANT SPECIES. INOCULATION OF SOILS WITH MYCORRHIZAL FUNGI OR THE PRESENCE OF PRE-EXISTING SOIL MICROBES IS ESSENTIAL FOR THE STABILIZATION OF ADVERSE SOILS, ESTABLISHMENT OF NATIVE GRASSES, AND THE EXCLUSION OF NON-NATIVE "ANNUALS" AND NOXIOUS WEEDS.

EROSION CONTROL BLANKET: EROSION CONTROL BLANKETS (ECBS) ARE A SOIL STABILIZATION (EROSION CONTROL) BMP, INTENDED TO PROTECT DISTURBED SOIL SURFACES FROM RAINDROP IMPACT EROSION. ECBS ARE CARPET-LIKE MATS, INSTALLED OVER AND ANCHORED TO THE PROPERLY PREPARED SOIL SURFACES. PROPERLY SELECTED AND INSTALLED, ECBS CAN MIMIC THE BENEFICIAL EFFECTS OF VEGETATIVE COVER THEREBY REDUCING EROSION RATES BY OVER 90%. ECBS ALSO PROTECT SEEDS AND PROVIDE A BENEFICIAL ENVIRONMENT FOR VEGETATION TO BECOME ESTABLISHED. CONTRACTOR SHALL VERIFY DURING REGULAR INSPECTIONS THAT NO GULLIES, RILLS, OR SCOUR HOLES HAVE FORMED UNDER EROSION CONTROL BLANKETS AND MATS AND CORRECT ALL ERODED AREAS WITHIN 7 DAYS. ALL REPAIRS MUST BE COMPLETED WITHIN 24 HOURS OF DISCOVERY, OR AS SOON AS FIELD CONDITIONS ALLOW ACCESS.

HYDRAULIC MATRICES: HYDRAULIC MATRICES ARE EROSION CONTROL PRODUCTS THAT ARE USED TO STABILIZE EXPOSED SOILS. THESE MATRICES ARE APPLIED IN A SLURRY, PRODUCED BY MIXING FIBER, WATER AND A BINDING AGENT TOGETHER IN A MECHANICAL HYDRO-SEEDER. WOOD FIBER IS WIDELY USED BUT OTHER FIBERS CAN INCLUDE PAPER, STRAW, COIR, CORN, ETC. THE EFFECTIVENESS OF THESE HYDRAULIC MATRICES ARE DEPENDENT ON:

- PROPER SOIL PREPARATION

- APPLICATION RATES (DEPENDENT ON THE MANUFACTURERS RECOMMENDATIONS)

- THE TYPE OF FIBERS USED

- THE TYPE OF BOND AGENT(S) ADDED THESE HYDRAULIC MATRICES ARE CLASSIFIED IN THE MNDOT SPEC BOOK AND APPROVED PRODUCTS LIST, DEPENDING ON THE PRODUCT CHARACTERISTICS, STRENGTH, AND LONGGEVITY. HYDRAULIC MATRICES USED INCLUDE: ORGANIC FIBER MATRIX, HYDRAULIC MULCH MATRIX, STABILIZED FIBER MATRIX, BONDED FIBER MATRIX, AND FIBER REINFORCED MATRIX.

SOD TYPE LAWN: SOD IS A PERMANENT EROSION PREVENTION BMP THAT PROVIDES INSTANTANEOUS SOIL STABILIZATION. THE CONTRACTOR IS RESPONSIBLE FOR MAINTENANCE OF SOD AS OUTLINED IN THE PROJECT SPECIFICATIONS.

ENERGY DISSIPATER: AN ENERGY DISSIPATER IS A STRUCTURE DESIGNED TO CONTROL EROSION AT THE OUTLET OF A CHANNEL OR CONDUTT.

RAPID STABILIZATION METHOD #1: THIS METHOD SHALL CONSIST OF TYPE 1 MULCH (2 TON PER ACRE) WITH DISC ANCHORING BE SPREAD IN AREAS THAT HAVE BEEN UNWORKED FOR 7 DAYS. THIS METHOD SHALL BE USED ON SLOPES OF 3:1 AND LESS. OPERATOR MUST APPLY MULCH IN A UNIFORM PATTERN OVER THE DISTURBED SOILS TO ACHIEVE A MINIMUM OF 90% GROUND COVER.

RAPID STABILIZATION METHOD #2: THIS METHOD SHALL CONSIST OF TYPE 3 MULCH (1.5 TON PER ACRE) OR 3884.B TYPE STABILIZED FIBER MATRIX (750 LBS PER ACRE) BE SPREAD IN AREAS THAT HAVE BEEN UNWORKED FOR 7 DAYS. THIS METHOD SHALL BE USED ON SLOPES LESS THAN 3:1.

RAPID STABILIZATION METHOD #3: THIS WORK SHALL CONSIST OF OPERATIONS NECESSARY TO RAPIDLY STABILIZE SMALL CRITICAL AREAS WITHIN 200 FEET OF SURFACE WATERS, TO PREVENT OFF SITE SEDIMENTATION AND OR TO COMPLY WITH PERMIT REQUIREMENTS. THIS FORM OF RAPID STABILIZATION EMPLOYS SFM, SEED MIX 22-111, AND FERTILIZER TYPE 3. THIS METHOD SHALL BE USED ON SLOPES LESS THAN 3:1. INSTALL PER MNDOT SPECIFICATION 2575.3.M.1.C.

RAPID STABILIZATION METHOD #4: THIS METHOD SHALL CONSIST OF CATEGORY 20/25 EROSION CONTROL BLANKET (NATURAL NET ONLY) IN COMBINATION WITH MNDOT SEED MIX 22-111 (2 LBS PER 100 SQ. YD.) AND TYPE 3 SLOW RELEASE FERTILIZER (8 LBS PER 100 SQ. YD.). THIS IS AN ACCEPTABLE BMP FOR DISTURBED AREAS ADJACENT TO ENVIRONMENTALLY SENSITIVE AREAS, SURFACE WATERS, AND WITHIN THE LAST 200 FEET OF DITCH BOTTOMS.

#### TEMPORARY & PERMANENT SEDIMENT CONTROL BMPS

SEDIMENT CONTROL LOGS: SEDIMENT CONTROL LOGS ARE MANUFACTURED FROM STRAW, WOOD EXCELSIOR, COCONUT FIBERS, AND/OR OTHER MATERIALS THAT ARE BOUND WITH POLYPROPYLENE OR BIODEGRADABLE NETTING INTO TIGHT TUBULAR ROLLS. FIBER ROLLS CONTROL THREE TYPES OF EROSIONAL PROCESSES; EROSION CONTROL, RUN OFF CONTROL, AND SEDIMENT CONTROL. SEDIMENT CONTROL LOGS CAN BE USED FOR THE FOLLOWING:

- SLOPE INTERRUPTERS TO REDUCE EROSION ON NEWLY CONSTRUCTED SLOPES
- TEMPORARY DITCH CHECKS TO REDUCE RUNOFF VELOCITIES IN DRAINAGE CHANNELS

MACHINE SLICED SILT FENCE: A SILT FENCE IS A TEMPORARY SEDIMENT BARRIER CONSISTING OF FILTER FABRIC ENTRENCHED INTO THE SOIL AND ATTACHED TO SUPPORTING POSTS. SILT FENCE IS INTENDED TO BE INSTALLED WHERE SEDIMENT-LADEN WATER CAN POND, THUS ALLOWING THE SEDIMENT TO FALL OUT OF SUSPENSION AND SEPARATE FROM THE RUNOFF. SILT FENCE INSTALLED WITH A TRENCHER OR BY SLICING IS THE MOST EFFECTIVE INSTALLATION METHOD TO ENSURE AGAINST COMMON SILT FENCE FAILURES. THE BMP WILL BE CLEANED OUT OR REPLACED WHEN THE SEDIMENT REACHES 1/2 THE HEIGHT OF THE FENCE.

STABILIZED CONSTRUCTION EXIT: TEMPORARY CONSTRUCTION EXITS ARE CONSTRUCTED AT THE EGRESS POINT FROM THE CONSTRUCTION AREA ONTO A PAVED ROAD. A STABILIZED CONSTRUCTION EXIT IS A TRACKING CONTROL BMP INTENDED TO PREVENT TRACKING OF SOIL FROM THE CONSTRUCTION SITE BY EQUIPMENT AND VEHICLES. THE EXITS ARE CONSTRUCTED OF LARGE ANGULAR ROCK, STEEL RIBS (RUMBLE STRIPS), OR TRACK PADS INTENDED TO KNOCK THE MUD OFF THE TIRES BEFORE TRAVELING ONTO THE ROADWAY.

DUST CONTROL: OPERATOR WILL COMPLY WITH STATE RULE 7011.0150 ON DUST PREVENTION REQUIREMENTS. DUST FROM THE SITE WILL BE CONTROLLED BY INCREASED STREET SWEEPING AND/OR USING A MOBILE PRESSURE-TYPE DISTRIBUTOR TRUCK TO APPLY POTABLE WATER TO DISTURBED AREAS. THE MOBILE UNIT WILL APPLY WATER AT A RATE NECESSARY TO PREVENT RUNOFF AND PONDING.

#### POLLUTION PREVENTION MANAGEMENT

POTENTIAL SOURCES OF POLLUTANTS FROM CONSTRUCTION ACTIVITIES INCLUDE, BUT NOT LIMITED TO:

NO.	DATE	BY	СНК	REVISIONS	Design By: AJP	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFE <b>XSI</b> ONAL ENGINEER UNDER			
					Plan By:	THE LAWS OF THE STATE OF MINNESOTA.			CSAH 35 at Gardena Ave Intersection
					AJF	PRINT NAME:ANDEREW J PLONMAN, PE			Improvements
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					AJP			ANOKA	Anoka County Highway Department
					Approved By:	-			Anoka county highway Department
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- SEDIMENT CONTROL BARRIERS FOR SMALL DISTURBED SOIL AREAS SUCH AS STOCKPILES, DISCRETE SLOPES, OR INDIVIDUAL LOTS

ANOKA COUNTY, MINNESOTA

STORM WATER POLLUTION PREVENTION PLAN SP 002-635-012, SP 127-020-033

SHEET 87 OF 90 SHEETS

- 1. SEDIMENT AND FUGITIVE DUST GENERATED FROM CLEARING AND GRUBBING, IMPORT/EXPORT OPERATIONS, REMOVALS/COMPACTION, MASS/FINE GRADING, EXCAVATIONS, TRENCHING, TOPSOIL STRIPING STOCKPILING, WET/DRY PAVEMENT CUTTING, STREET CONSTRUCTION.
- 2. BASIC/ACIDIC PH LEVELS FROM CURB AND GUTTER, MANHOLE STRUCTURES, SIDEWALKS, DRIVEWAY APRONS, FOUNDATIONS, BRIDGE ABUTMENTS, WET/DRY PAVEMENT CUTTING, MASONRY WASHOUT/CLEANOUT.
- 3. EXCESS NUTRIENTS FROM LANDSCAPING INSTALLATIONS, SOIL ADDITIVES, FERTILIZATION, MULCHING.
- 4. HYDROCARBONS FROM STREET CONSTRUCTION, DEMOLITION/REMOVALS, WET/DRY PAVEMENT CUTTING.

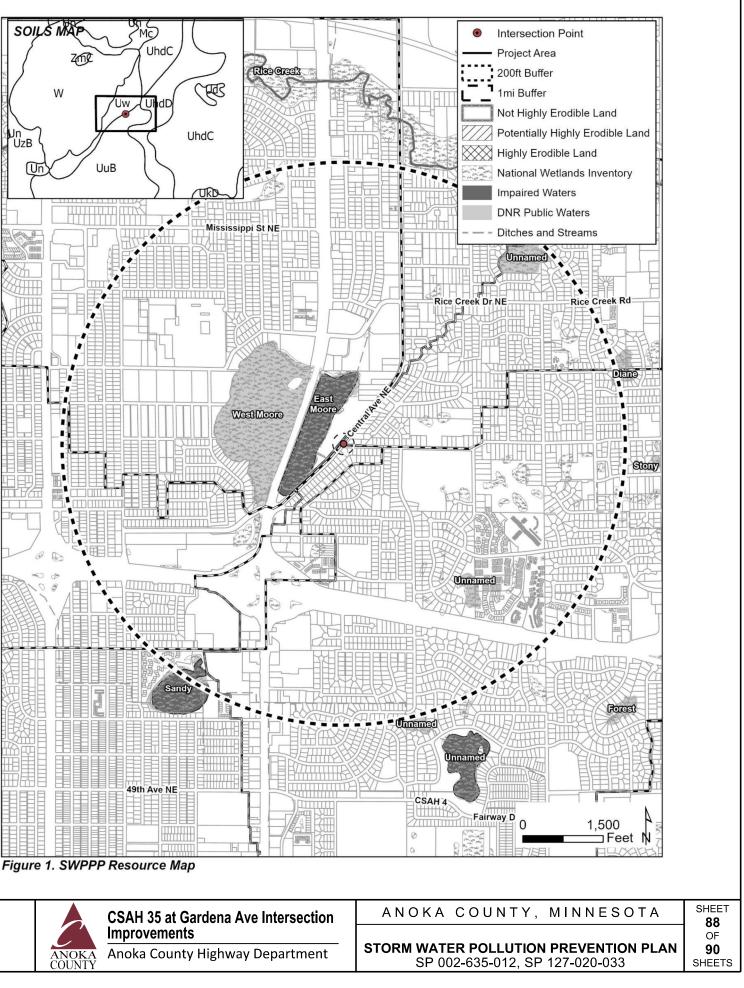
OPERATOR WILL COMPLY WITH ALL OF THE POLLUTION PREVENTION AND MANAGEMENT MEASURES IDENTIFIED IN THE NPDES-CSW PERMIT, PART 12.1. STORAGE AND DISPOSAL OF CONSTRUCTION AND HAZARDOUS WASTES MUST BE IN COMPLIANCE WITH MPCA REGULATIONS.

- A. POSITION AND STAKE DOWN ALL PORTABLE TOILETS SO THEY CANNOT BE TIPPED OR KNOCKED OVER. SUPPLY ADEQUATE SECONDARY CONTAINMENT.
- B. SECONDARY CONTAINMENT IS NEEDED AROUND ALL STATIONARY EQUIPMENT (GENERATORS, PUMPS, LIGHT PLANTS, ETC.) PROVIDE CONTAINMENT FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE.
- C. NO ENGINE DEGREASING IS ALLOWED ON SITE.
- D. VEHICLE AND EQUIPMENT WASHING TO OCCUR IN DESIGNATED AREA AS DETERMINED BY THE CONTRACTOR SUBMITTAL OF A MANAGEMENT PLAN FOR THESE ACTIVITIES.
- E. PROPERLY CLEAN UP AND REPORT ALL SPILLS AS REQUIRED BY THE MPCA AND MNDOT SPECIFICATIONS.
- F. PROVIDE A SPILL KIT AT EACH WORK LOCATION ON THE SITE.
- G. PROVIDE A SECURE STORAGE AREA WITH RESTRICTED ACCESS FOR ALL HAZARDOUS MATERIALS AND TOXIC WASTE. RETURN ALL HAZARDOUS MATERIALS AND TOXIC WASTE TO THE DESIGNATED STORAGE AREA AT THE END OF THE BUSINESS DAY UNLESS INFEASIBLE. STORE ALL HAZARDOUS MATERIALS AND TOXIC WASTE (INCLUDING BUT NOT LIMITED TO OIL, DIESEL FUEL, GASOLINE, HYDRAULIC FLUIDS, PAINT, PETROLEUM BASED PRODUCTS, WOOD PRESERVATIVES, ADDITIVES, CURING COMPOUNDS, AND ACIDS) IN SEALED CONTAINERS WITH SECONDARY CONTAINMENT. CLEAN UP SPILLS IMMEDIATELY. STORE, COLLECT AND DISPOSE OF ALL SOLID WASTE.
- H. SLURRY FROM CONCRETE OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF.
- I. A SIGN MUST BE INSTALLED ADJACENT TO EACH CONCRETE WASHOUT FACILITY.
- J. CREATE AND FOLLOW A WRITTEN DISPOSAL PLAN FOR ALL WASTE MATERIALS. INCLUDE IN THE PLAN HOW THE MATERIAL WILL BE DISPOSED OF AND THE LOCATION OF THE DISPOSAL SITE. SUBMIT PLAN TO THE ENGINEER PRIOR TO CONSTRUCTION.
- K. USE METHODS AND OPERATIONAL PROCEDURES THAT PREVENT DISCHARGE OR PLACEMENT OF BITUMINOUS GRINDINGS, CUTTINGS, MILLINGS, AND OTHER BITUMINOUS WASTES FROM AREAS OF EXISTING OR FUTURE VEGETATED SOILS AND FROM ALL WATER CONVEYANCE SYSTEMS, INCLUDING INLETS, DITCHES AND CURB FLOW LINES.

#### FINAL STABILIZATION

FINAL STABILIZATION IS ACHIEVED WHEN NPDES CGP PARTS 13.1-13.7 (AS APPLICABLE) ARE COMPLETED PRIOR TO SUBMISSION OF THE NOTICE OF TERMINATION (NOT) TO MPCA.

- 1. ALL AREAS MUST BE STABILIZED WITH A UNIFORM PERENNIAL VEGETATIVE COVER WITH A DENSITY OF 70%.
- 2. ALL TEMPORARY SEDIMENT CONTROL BMP MEASURES MUST BE REMOVED PRIOR TO SUBMITTING PERMIT NOT.



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	NO	DATE	BY CH	HK REVISIONS	Design By: Plan By: Checked By Approved E	AJP AJF AJP	I HEREBY CERTIFY THAT THIS PLAN. SPECIFICATION. OR REPORT WAS PREPARED BY OR UNDER WY DIRECT SUPERVISION AND THAT I AN A DULY LICENED PROTECTIONAL ENGINEER UNDER THE LANS OF HE STATE OF WINESDIA. PRINT NAME:	wsb	ANOKA COUNTY	CSAH 35 at Gardena Ave Intersection Improvements Anoka County Highway Departmen

### EROSION/SEDIMENT CONTROL NOTES:

#### SEDIMENT CONTROL PRACTICES:

- 1. SEDIMENT CONTROL MUST BE IN PLACE AND APPROVED BY THE ENGINEER BEFORE ANY PHASE OF CONSTRUCTION CAN BEGIN.
- IF A 50' NATURAL BUFFER AROUND A SURFACE WATER IS INFEASIBLE, REDUNDANT PERIMETER CONTROLS MUST BE 2. PROVIDED. REDUNDANT MEASURE TO BE INSTALLED 3-5' FROM THE PRIMARY MEASURE WITH STABILIZED AREAS IN BETWEEN THE TWO BMPS.
- 3. INLET PROTECTION WILL BE INSTALLED AT ALL CATCH INLETS WITHIN THE PROJECT AREA PER STANDARD DETAILS.
- TEMPORARY STABILIZATION MEASURES SHALL BE EMPLOYED WITHIN 200 FEET OF THE NWP OF ALL DISCHARGE POINTS 4. WITHIN 24 HOURS. MULCH IS NOT AN APPROVED MEASURE.
- IN THE EVENT THAT PERMANENT STABILIZATION CANNOT BE IMPLEMENTED WITHIN 7 DAYS AFTER CONSTRUCTION ACTIVITY IN THE DISTURBED AREA HAS CEASED, TEMPORARY STABILIZATION BMPS MUST BE SCHEDULED TO OCCUR WITHIN THAT 7 DAY TIME FRAME (EXCEPT WHERE CALLED OUT BY NOTE BELOW) 5.
- 6. RAPID STABILIZATION METHOD 4 SHALL BE EMPLOYED WITHIN 200 FEET OF THE NORMAL WETTED PERIMETER OF ALL DISCHARGE POINTS WITHIN 24 HOURS.
- 7. A SEDIMENT TRAP MUST BE INSTALLED PER THE APPROVED STANDARD DETAILS WITHIN 24 HOURS OF CONNECTING THE UTILITIES.
- 8. ALL STOCKPILES MUST HAVE DOWN GRADIENT PERIMETER SEDIMENT CONTROL IMPLEMENTED AND MAINTAINED AT ALL TIMES. STOCKPILES TO RECEIVE TEMPORARY STABILIZATION IF UNWORKED FOR 7 DAYS.
- 9. STOCKPILES MAY NOT BE PLACED WITHIN ANY DRAINAGE OR CURB LINE UNLESS PROPER BYPASS IS INSTALLED PRIOR TO STOCKPILE PLACEMENT.

10. CONTRACTOR TO INSTALL SEDIMENT CONTROL LOGS DOWN GRADIENT FROM ANY EXPOSED AREAS

#### EROSION PREVENTION PRACTICES:

1. STABILIZATION OF DISTURBED AREAS SHALL BE DONE BY PERMANENT TURF ESTABLISHMENT WHENEVER POSSIBLE.

#### POLLUTION PREVENTION MANAGEMENT MEASURES:

- 1. A ROCK CONSTRUCTION ENTRANCE WILL BE PLACED AT ALL ENTRANCES THAT LEAD TO THE PROJECT SITE IN ACCORDANCE WITH THE STORMWATER POLLUTION PREVENTION PLAN AND THE APPROVED STANDARD DETAILS.
- 2. ALL STREETS IN AND ADJACENT TO THE PROJECT SHALL REMAIN CLEAN AND PASSABLE AT ALL TIMES. ADJACENT STREET AND CURB LINE TO BE SWEPT FREE OF DEBRIS AT THE END OF EACH WORK DAY. OR AS OFTEN AS NEEDED TO ENSURE PUBLIC SAFETY.
- 3. SLURRY FROM CONCRETE OPERATIONS MUST BE VACUUMED UP IMMEDIATELY. NO CONCRETE WASHOUT SHALL COME IN CONTACT WITH THE GROUND AND MUST BE PROPERLY DISPOSED OF. ALL HAZARDOUS MATERIALS MUST BE KEPT UNDER COVER AND WITHIN PROPER CONTAINMENT WHEN NOT IN USE.

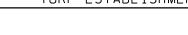
#### INFILTRATION BASINS:

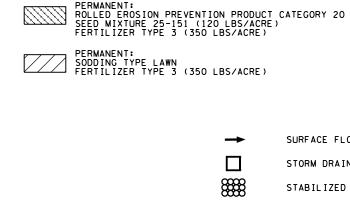
- 1. NO HEAVY EQUIPMENT, STOCKPILES, OR HAZARDOUS MATERIALS SHALL BE STORED ON OR NEAR THE INFILTRATION BASINS.
- 2. DO NOT FULLY EXCAVATE INFILTRATION BASINS UNTIL ALL UPGRADIENT LAND DISTURBING ACTIVITY HAS BEEN COMPLETED AND THE DRAINAGE AREA HAS BEEN STABILIZED. PROVIDE RIGOROUS EROSION PREVENTION AND SEDIMENT AND SEDIMENT CONTROL BMPS TO KEEP SEDIMENT AND RUNOFF COMPLETELY AWAY FROM THE INFILTRATION AREAS.
- 3. KEEP INFILTRATION BASINS OFFLINE UNTIL VEGETATION HAS BEEN ADEOUATELY ESTABLISHED.

#### MISCELLANEOUS

- 1. ADDITIONAL EROSION AND SEDIMENT CONTROL MAY BE ADDED DURING ANY PHASE OF CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- IF PROJECT CONSISTS OF MILL & OVERLAY OF SECTIONS, ENSURE MILLINGS ARE NOT A THREAT FROM WASHING OFF THE 2. PROJECT ROW.
- CONTRACTOR TO PROTECT ALL WETLAND AREAS WITH PERIMETER CONTROL (AND REDUNDANT MEASURES) UNTIL WORK IN THE 3. PERMITTED AREAS IS NEEDED.

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SODDING TYPE LAWN FERTILIZER TYPE 3 (350 LBS/ACRE)

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## TURF ESTABLISHMENT AND EROSION CONTROL LEGEND

TEMPORARY: RAPID STABILIZATION METHOD 3

> TEMPORARY: RAPID STABILIZATION METHOD 3

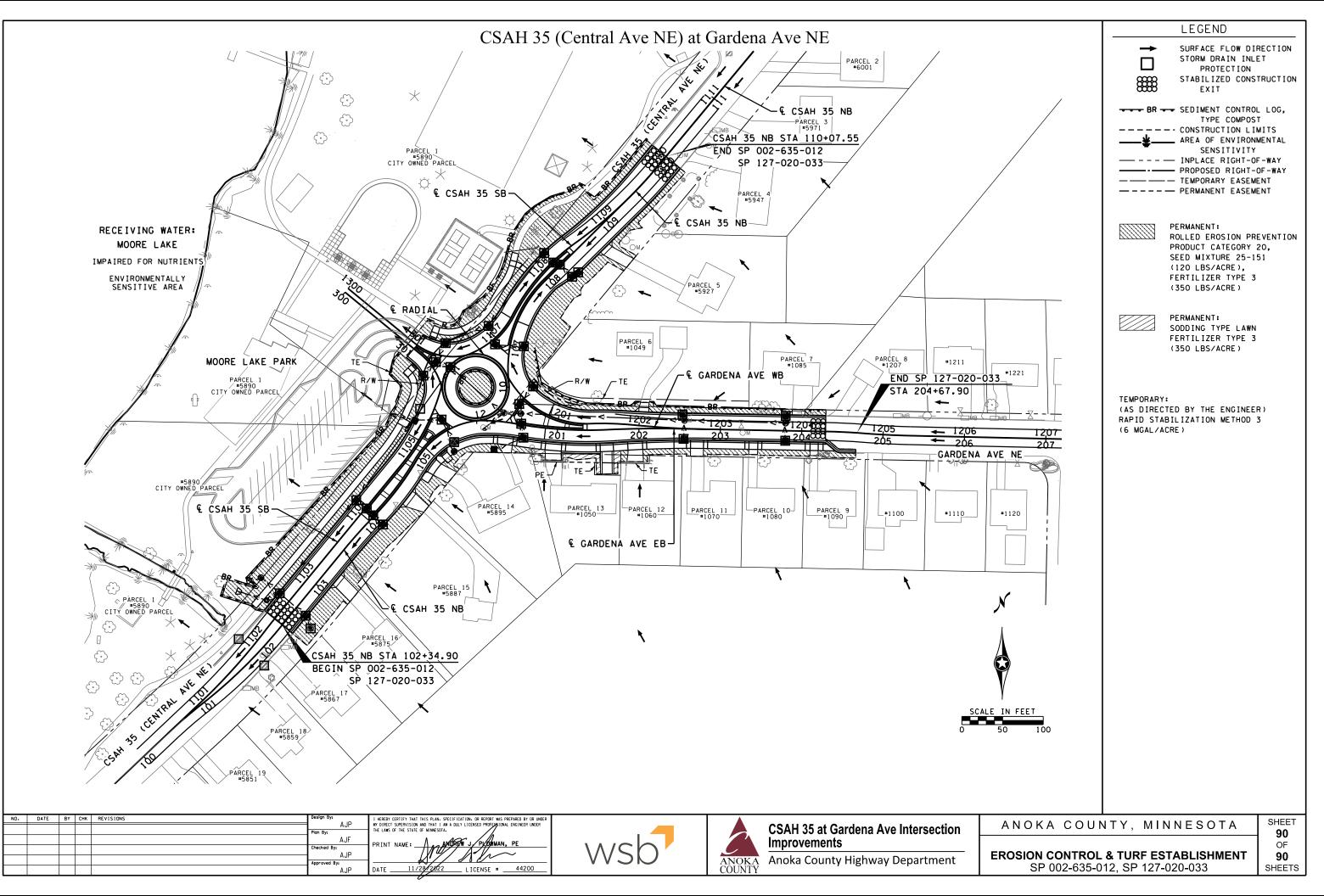
SURFACE FLOW DIRECTION TORM DRAIN INLET PROTECTION STABILIZED CONSTRUCTION EXIT

SEDIMENT CONTROL LOG, TYPE COMPOST CONSTRUCTION LIMITS REA OF ENVIRONMENTAL SENSITIVITY NPLACE RIGHT-OF-WAY ROPOSED RIGHT-OF-WAY TEMPORARY EASEMENT PERMANENT EASEMENT

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NOTES / LEGEND									

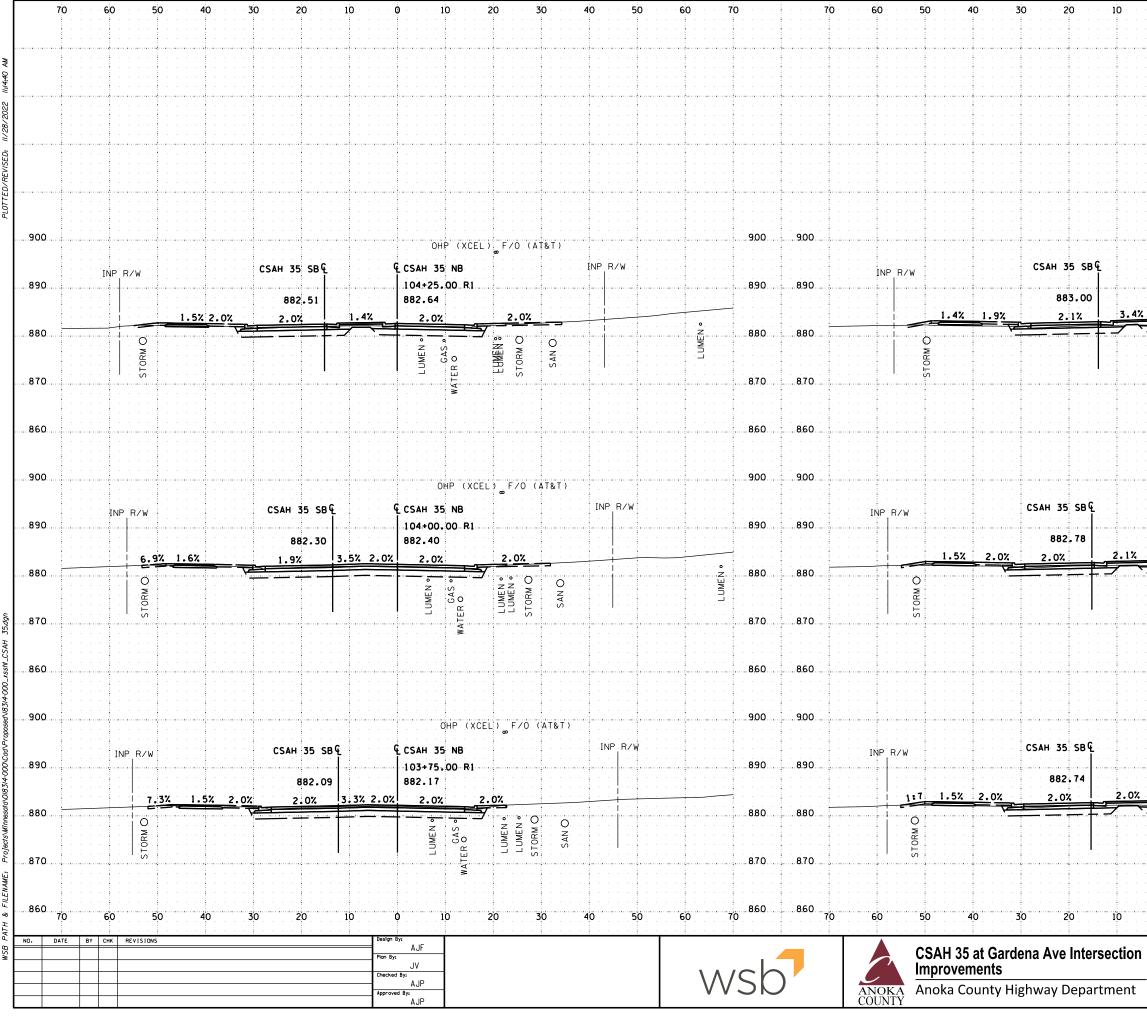
**EROSION CONTROL & TURF ESTABLISHMENT** SP 002-635-012, SP 127-020-033



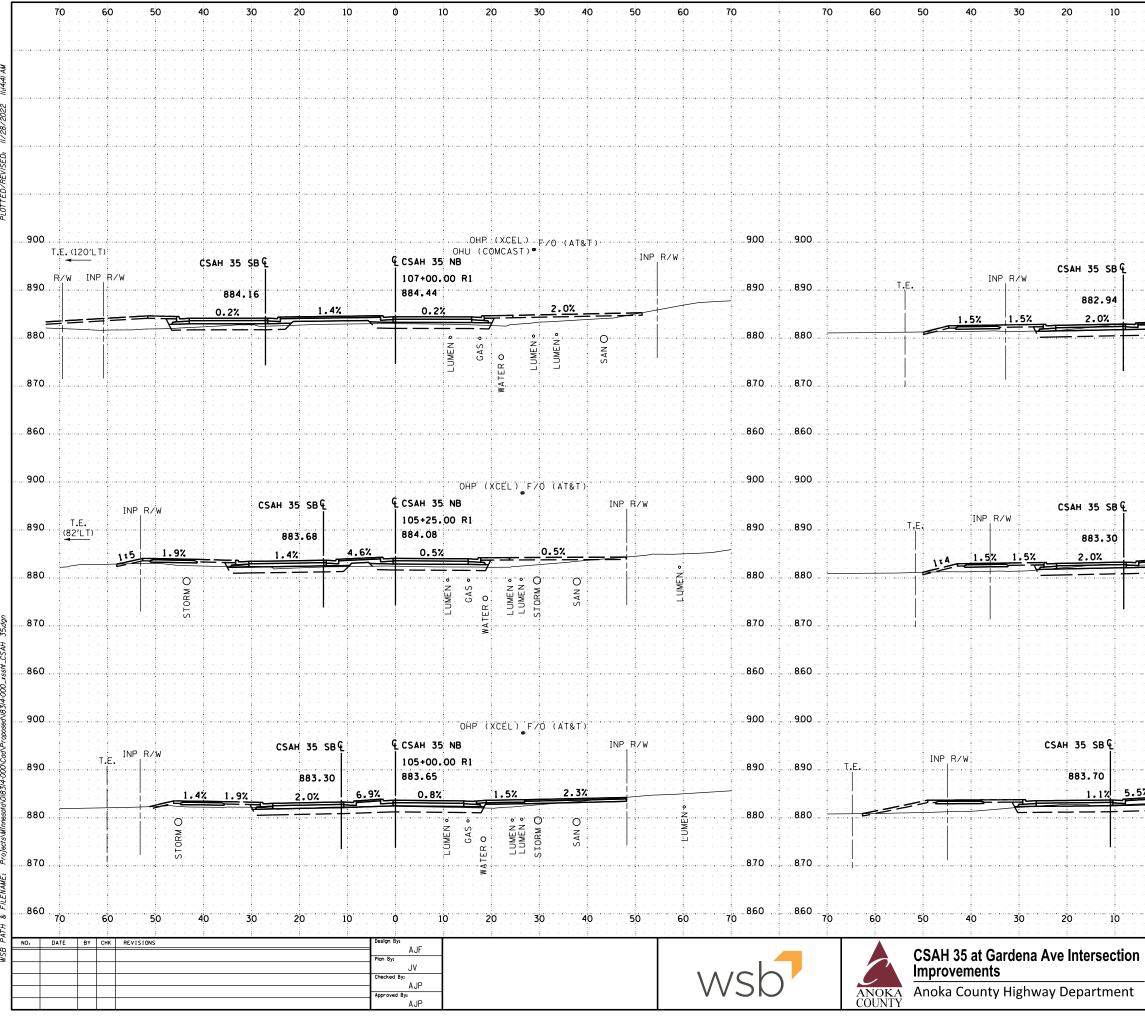


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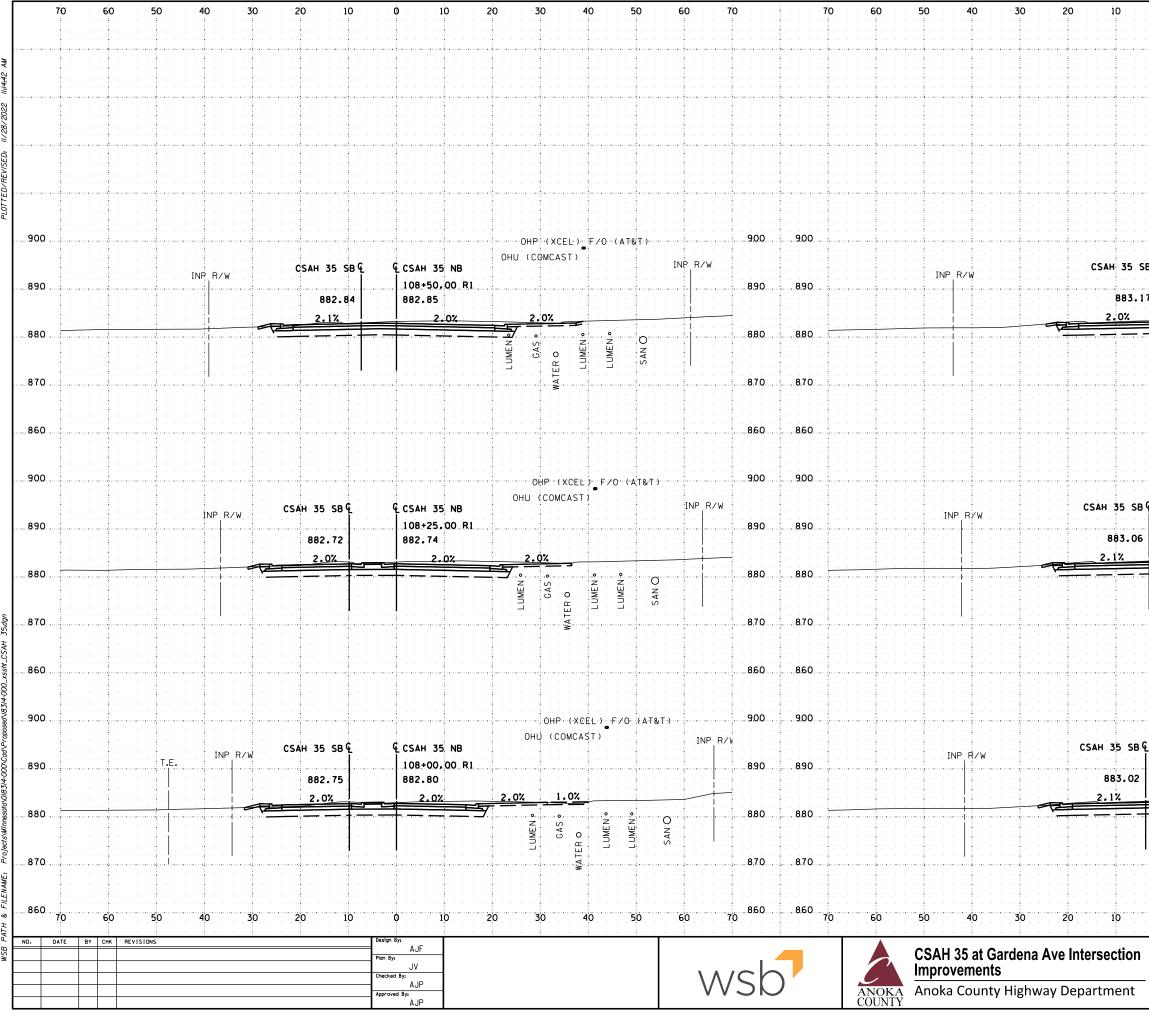
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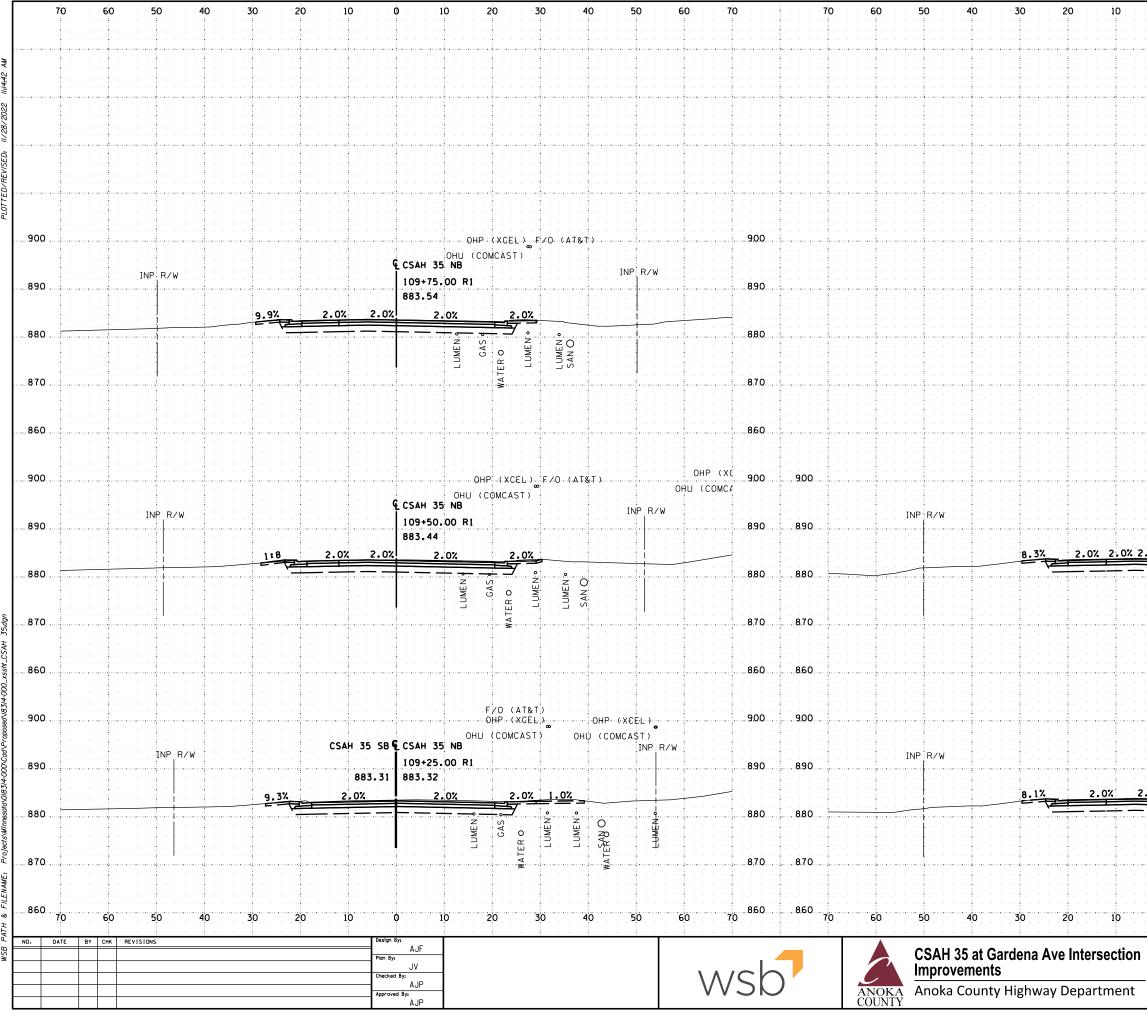
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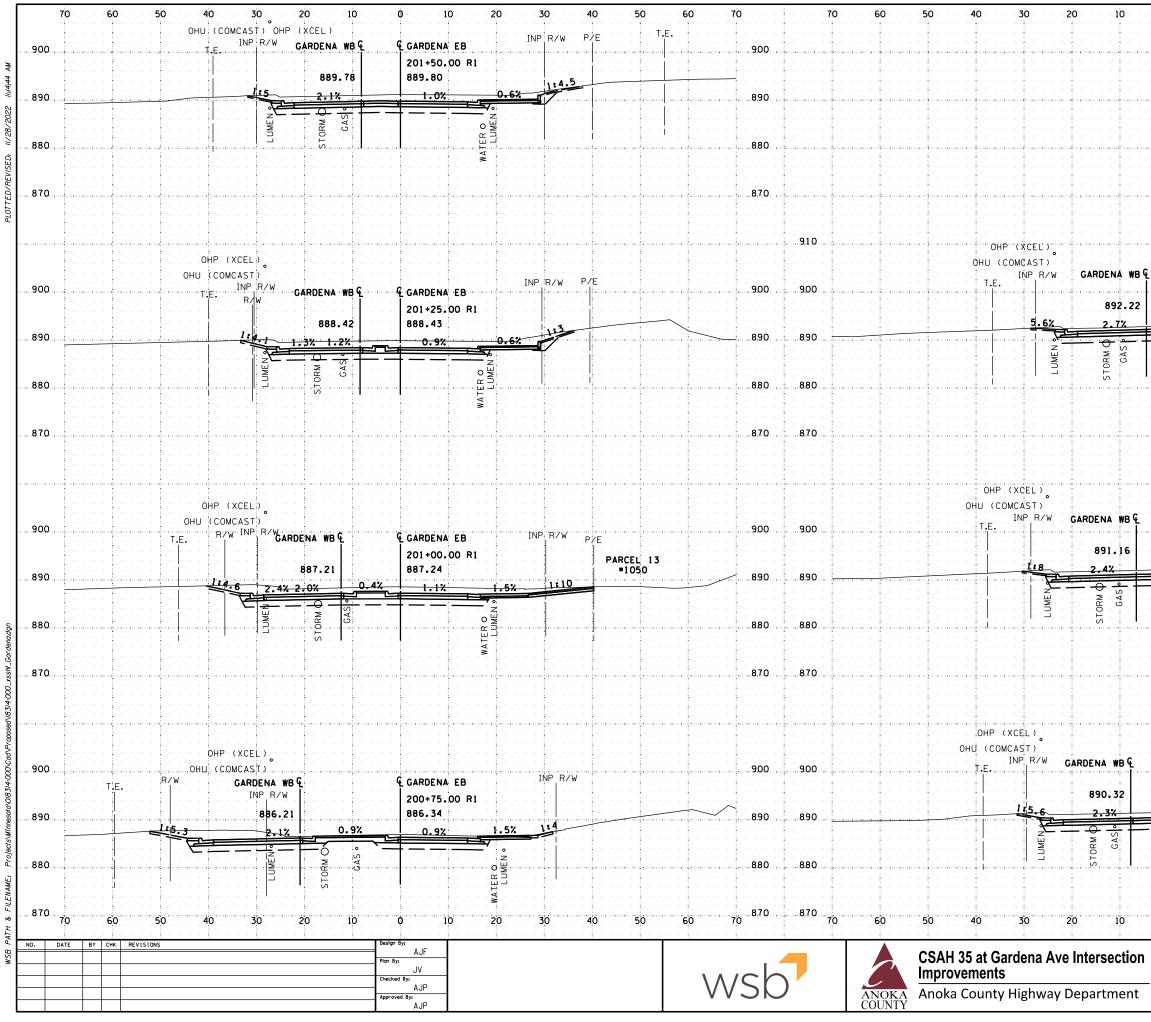
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OHP (XCEL) F/O (AT&T) OHU (COMCAST) INP	
107+50.00 R1 883.47	
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	860
0H₽ (XCEL) F ∕0 (AT&T)	900
CSAH 35 NB OHU (COMCAST) INP R/W	800
883.96 <u>%</u> 0.9%2 <u>.0%</u>	
LUMEN SAN C	070
<b>Q</b> 10 20 30 40 50 60	860 70
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CSAH 35 CROSS SECTIONS	- X3 OF X8
SP 002-635-012, SP 127-020-033	AO SHEETS



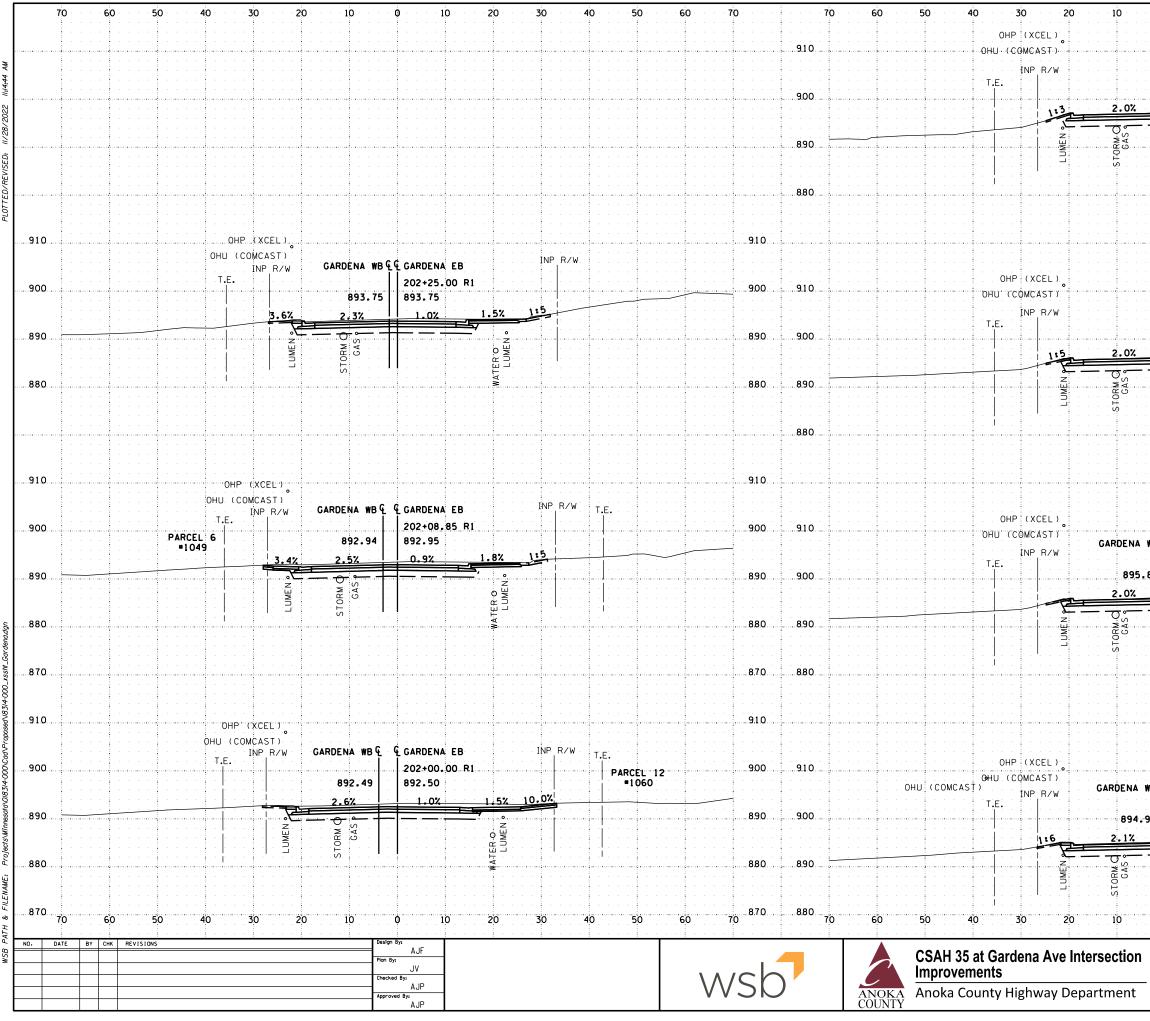
109+00.00 R1       890         883.18       2.0%         2.0%       2.0%         2.0%       300         300       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         301       300         302       300         303       300         304       300         305       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300       300         300		) 10	20	30	- 4	0 5	0 60	70
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OHU       (COMCAST)       INP R/W         109+00.00 R1								
OHU       (COMCAST)       INP R/W         109+00.00 R1								
OHU       (COMCAST)       INP R/W         109+00.00 R1								
OHU       (COMCAST)       INP R/W         109+00.00 R1		· · · · · · · · · ·					· · · · · · · ·	
BB € € CSAH 35 NB 109+00.00 R1 883.18 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 2.0% 880 880 880 880 880 880 880 8					) 	(AT&T)	· · · · · · · ·	
2.02       2.07 <t< td=""><td> </td><td>109+00.00 R1</td><td></td><td>, UMCA317</td><td></td><td> </td><td>INP R/W</td><td></td></t<>	 	109+00.00 R1		, UMCA317		 	INP R/W	
Imp       BF/0       BF/0       (AT&T)       900         OHD       (COMCAST)       Imp       R/W       B90         Imp       Imp       R/W       B90       B90         B83.07       0       0       0       B90         B83.07       0       0       0       0       B90         B83.07       0       0       0       0       B90         B83.07       0       0       0       0       B90       B80         Imp       F.02       6.0%       5.8%       0       B90       B80       B80         Imp       F.02       6.0%       0       0       0       B90       B80         Imp       Comp       (XCEL)       Fr/0       (AT&T)       900       B60         OHP       (XCEL)       Fr/0       (AT&T)       900       B60       B60       B60         OHP       (XCEL)       Fr/0       (AT&T)       900       B60       B60 <td></td> <td></td> <td></td> <td>7 -</td> <td></td> <td>· · · ·</td> <td></td> <td></td>				7 -		· · · ·		
General Stress       870         OHP (XCEL) F/O (AT&T)       900         OHU (COMCAST)       INP R/W         108+82.00 R1       890         883.07       5.8%         2.0%       6.0%       5.8%         880.       390         883.07	 	· · · · · · · · · · · · · · · · · · ·		ER O GAO				880
OHP (XCEL) F/O (AT&T)       900.         OHU (COMCAST)       INP R/W         108+82.00 R1       890.         883.07       5.8%         2.02       6.0%       5.8%         883.07           883.07		· · · · · · · ·		WATI		· · · ·	· · · · · · · ·	
OHP (ACEL), F/O (AT&T)     INP R/W       IOB+82.00 R1     890       883.07     5.8%       2.0%     6.0%       5.8%     880       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     5.8%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%     6.0%       3.0%						· · · ·		
Image: Constraint of the second se			0	HP (XCE	L).F/	D (AT&T)	· · · · · · · · ·	
883.07       2.0%       6.0%       5.8%         883.07       0.0%       5.8%         880       880       880         880       870         900       860         0HP       F/0 (AT&T)         900       900         0HU       COMCAST         108+75.00 R1       890         883.02       5.6%	د ا	•	OHU	(COMCAS			INP R/W	
μ       μ       γ       γ       γ       γ       870         μ       γ       γ       γ       870       870         μ       γ       γ       870       860         γ       γ       900       860         OHP       (XCEL)       F×0       (AT&T)       900         OHU       (COMCAST)       INP       R/W         108+75.00 R1       890       883.02       890		883.07		6.0%		5.8%		
<ul> <li>€ € CSAH 35 NB</li> <li>OHP (XCEL) F/O (AT&amp;T)</li> <li>900.</li> <li>OHU (COMCAST)</li> <li>INP R/W</li> <li>I08+75.00 R1</li> <li>883.02</li> </ul>	· ·	· · · · · · · · · · · · · · · · · · ·	JME N 9	GAS •	• MEN	umen • San O		
OHP (XCEL) F70 (AT&T) OHU (COMCAST) INP R/W I08+75.00 R1 883.02 E 67	• • •			₩. A FE		_ · · · · ·	· · · · · · · ·	870
QHU (COMCAST)       INP R/W         INP R/W       INP R/W         883.02       883.02						· · · · ·		
QHU (COMCAST)       INP R/W         INP R/W       INP R/W         883.02       883.02					· · ·			
883.02	¢ q	CSAH 35 NB			œ	0 (AT&T)	INP R/W	900
2.02 5.6% 2.02 880 2.02		2.0%	<b>الم الم</b>	AS .	0			
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CSAH 35         X4	_	ANOK		CS/	AH 35		ESOTA	OF
CROSS SECTIONS         X8           SP 002-635-012, SP 127-020-033         SHEETS		SP	002-6	<b>KUSS (</b> 35-012	, SP	<b>IONS</b> 127-020	-033	X8 SHEETS



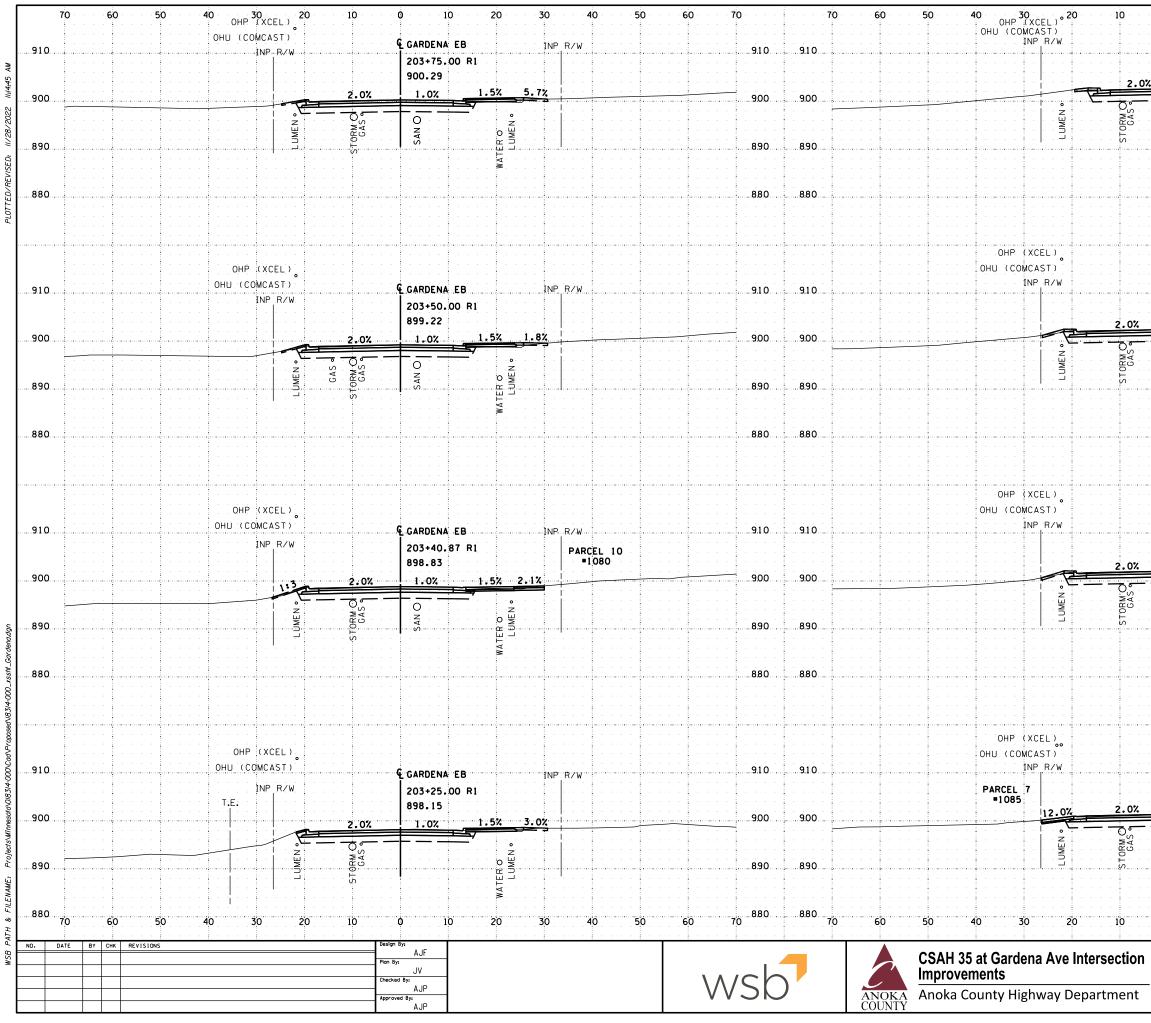
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Ģ	CSAH 35	NB (CO	MCAST)		INP	R/W		
	110+07.	54 R1						
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