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A 2104-501 REMOVE CONCRETE CURB AND GUTTER A 2104-501 REMOVE DEVINIONOUS PARKET CURL AND GUTTER A 2104-501 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2104-501 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2205-502 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2205-502 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2205-502 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2205-502 REMOVE CONCRETE PARKEMENT FULL DEPTHY B 1. LIN FT 98. A 2205-502 REMOVE CONCRETE PARKEMENT FULL AND FULL SCREEN	TAB NO.			NO.		TOTAL EST. QUANT.					
A 2104-505 REMOVE BITUMNOUS PACEMENT A 2104-515 SAWRG DOCKRETE PAWEMENT (PALL DEPTH) B 5 LIN F 18 A 2104-515 SAWRG DOCKRETE PAWEMENT (PALL DEPTH) B 6 LIN F 2056 A 2105-535 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 7 LIN F 2056 B 1148-100 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 7 LIN F 2056 B 1148-100 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 7 LIN F 2056 B 1148-100 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 8 LIN F 2056 B 1148-100 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 8 LIN F 2056 B 1148-100 SAWRG DOCKRETE PAVEMENT (PALL DEPTH) B 8 LIN F 2056 B 1148-100 SAWRG DOCKRETE PAVEMENT (PALL DEPTH) B 100 SAWRG DITUMNOUS PAVEMENT (PALL DEPTH) B 100 SAWRG DOCKRETE PAVEMENT (PAL						1					
A 2104.511 SAWNING CONCRETE PAKEMENT (FULL DEPTH) 8 LIN FT 283 A 2104.511 SAWNING CONCRETE PAKEMENT (FULL DEPTH) 8 LIN FT 283 A 2205.051 MILL BITUMROUS PAKEMENT (FULL DEPTH) 1,57.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.051 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.050 MILL BITUMROUS SURFACE (F) 1,07.10 SQ 170 (14)92 2205.050 MILL BITUMROUS SURFACE (F) 1,07.10 MILL BITUMROUS SURFACE (
A 2205-131 SAWING BITUMOUS PAYEMENT (PULL DETTI) 8 LNFT 288 A 2205-205 MILL BITUMOUS SURFACE (AC COAT 150 SOLY) 14152 A 2357-505 BITUMONUS SURFACE (AC COAT 150 SOLY) 14152 A 2357-505 BITUMOUS SURFACE (AC COAT 150 SOLY) 14152 A 2568-505 MILL BITUMOUS SURFACE (AC COAT 150 SOLY) 14152 A 2568-505 MILL BITUMOUS SURFACE (AC COAT 150 SOLY) 150 SOLY 1715 SI 15 WEARING COURSE MIX (FE) WITHOUT SCRAP SHINGLES) ATERNATE BID 13 TON 1637 A 2568-506 MILL BITUMOUS MARKED SOLY MILL SOLY M	•										
2357.502 BITMANNOUS MATERIAL FOR TACK COAT 236.002 TYPE SP 1/2 WEARING COURSE MIX (A E) WITHOUT SCRAP SHINGLES) 3 CALLON 710	Α	2104.513	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)		LIN FT	288					
2380_501 TYPE SP 12 SWEARING COURSE MIX (AE) (WITHOUT SCRAP SHINGLES) TON 1632	Α										
2390.002 TYPE SP 12 WEARING COURSE MIX FOR DATCH (LWW/35030 B)				- 3							
A 2506.503 RECONSTRUCT DRAWAGE STRUCTURE				13							
A 2006.516 ASTRING ASSEMBLY -											
A 2506 602 GROUT CATCH BASIN OR NANHOLE				-							
A 2531.501 CONCRETE CURB AND GUTTER DESIGN B818 5.8 LINFT 60 2553.601 TRAFFIC CONTROL 2553.610 POLICE OFFICER 6.9 SO YD 10.6 2553.610 POLICE OFFICER 7.0 SO YD 10.6 2553.610 POLICE OFFICER 8.9 SO YD 10.6 2553.610 POLICE OFFICER 7.0 SO YD 10.6 2553.610 POLICE OFFICER 7.0 SO YD 10.6 2553.601 POLICE OFFICER 7.0 POLICE OFFICE MARKINGS 7.0 POLICE OFFICE POLICE POL						- 					
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A 2575.604 EROSDON CONTROL BLANKET 2581.501 REMOVABLE PREFORM PLASTIC MARKINGS 4 LIN FT 320 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 4913 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2582.502 (* YSOLD LINE WILLOW - FLOXY) 2 LIN FT 520 2 L											
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4020J MANHOLE OR CATCH BASIN 4149C CATCH BASIN GRATE CASTING 4026A CONCRETE ENCASED CONCRETE ADJUSTING RINGS 4101D RING CASTING FOR MANHOLE		10 11 12 13 ITEM NO. 2357.502 2360.501 2360.609 2581.501	SEED, FERTILIZER, TOPSOIL AT ALL CB REPAIRS ARE INCIDENTAL TO EROSION CONTROL BLA AT GATE VALVES AND MANHOLES MILL 1 1/2" INCHES TAPER TO 2 INCHES. RAS SHALL BE PART OF THE MIX DESIGN FOR THIS PROJECT. DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, STOP HERE ON RED, BUMP AND BUMI INPLACE DURING MILL AND PAVING OPERATIONS. TEAR OFF SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED I	P AHEAD S	OF GAL / SQ YD (SQ YD * IN. *115 LBS)/2000 = (SQ YD * IN. *115 LBS)/2000 = ((PROJECT LENGTH * 50) / 4)	TONS TONS					
4026A CONCRETE ENCASED CONCRETE ADJUSTING RINGS 7100H CONCRETE CURB AND GUTTER 4101D RING CASTING FOR MANHOLE 7111J INSTALLATION OF CATCH BASIN CASTINGS		10 11 12 13 ITEM NO. 2357.502 2360.501 2360.609 2581.501 PLATE NO. 4006L	SEED, FERTILIZER, TOPSOIL AT ALL CB REPAIRS ARE INCIDENTAL TO EROSION CONTROL BLA AT GATE VALVES AND MANHOLES MILL 1 1/2" INCHES TAPER TO 2 INCHES. RAS SHALL BE PART OF THE MIX DESIGN FOR THIS PROJECT. DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, STOP HERE ON RED, BUMP AND BUMI INPLACE DURING MILL AND PAVING OPERATIONS. TEAR OFF SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SET OF PLANNED QUANTITIES. BITUMINOUS MATERIAL FOR TACK COAT TYPE SP 12.5 WEARING COURSE MIX (4,E) TYPE LV3 NON-WEAR COURSE MIX FOR CB PATCH (LVNW35030 B) REMOVABLE PREFORM PLASTIC MARKINGS STANDARD PLATE DETAIL DESCRIPTION MANHOLE OR CATCH BASIN	P AHEAD S TOTAL WEK	OF GAL / SQ YD (SQ YD * IN. *115 LBS)/2000 = (SQ YD * IN. *115 LBS)/2000 = ((PROJECT LENGTH * 50) / 4) CATCH BASIN FRAME CAS	TONS TONS					
		10 11 12 13 ITEM NO. 2357.502 2360.501 2360.609 2581.501 PLATE NO. 4006L 4010H	SEED, FERTILIZER, TOPSOIL AT ALL CB REPAIRS ARE INCIDENTAL TO EROSION CONTROL BLA AT GATE VALVES AND MANHOLES MILL 1 1/2" INCHES TAPER TO 2 INCHES. RAS SHALL BE PART OF THE MIX DESIGN FOR THIS PROJECT. DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, STOP HERE ON RED, BUMP AND BUMINPLACE DURING MILL AND PAVING OPERATIONS. TEAR OFF SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP SERVICE	P AHEAD S TOTAL WEK 4126F 4161F	OF GAL / SQ YD OF GAL / SQ YD	TONS TING CATCH BASIN					
41 TOP GOVER CASTING FOR INMINITULE 80001 STANDARD BARRICADES		10 11 12 13 ITEM NO. 2357.502 2360.501 2360.609 2581.501 PLATE NO. 4006L 4010H 4020J 4026A	SEED, FERTILIZER, TOPSOIL AT ALL CB REPAIRS ARE INCIDENTAL TO EROSION CONTROL BLA AT GATE VALVES AND MANHOLES MILL 1 1/2" INCHES TAPER TO 2 INCHES. RAS SHALL BE PART OF THE MIX DESIGN FOR THIS PROJECT. DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, STOP HERE ON RED, BUMP AND BUMINPLACE DURING MILL AND PAVING OPERATIONS. TEAR OFF SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP STANDARD QUANTITIES BITUMINOUS MATERIAL FOR TACK COAT TYPE SP 12.5 WEARING COURSE MIX (4,E) TYPE LV3 NON-WEAR COURSE MIX FOR CB PATCH (LVNW35030 B) REMOVABLE PREFORM PLASTIC MARKINGS STANDARD PLATE DETAIL DESCRIPTION MANHOLE OR CATCH BASIN CONCRETE SHORT CONE AND ADJUSTING RING MANHOLE OR CATCH BASIN CONCRETE ENCASED CONCRETE ADJUSTING RINGS	P AHEAD S TOTAL WEK 4126F 4161F 4149C 7100H	.05 GAL / SQ YD (SQ YD * IN. *115 LBS)/2000 = (SQ YD * IN. *115 LBS)/2000 = ((PROJECT LENGTH * 50) / 4) CATCH BASIN FRAME CAS CURB BOX CASTING FOR CATCH BASIN GRATE CAS CONCRETE CURB AND GL	TONS TONS TING CATCH BASIN TING JTTER					
		10 11 12 13 ITEM NO. 2357.502 2360.501 2360.609 2581.501 PLATE NO. 4006L 4010H 4020J 4026A 4101D	SEED, FERTILIZER, TOPSOIL AT ALL CB REPAIRS ARE INCIDENTAL TO EROSION CONTROL BLA AT GATE VALVES AND MANHOLES MILL 1 1/2" INCHES TAPER TO 2 INCHES. RAS SHALL BE PART OF THE MIX DESIGN FOR THIS PROJECT. DO NOT PASS, PASS WITH CARE, NO CENTER STRIPE, STOP HERE ON RED, BUMP AND BUMINPLACE DURING MILL AND PAVING OPERATIONS. TEAR OFF SCRAP SHINGLES SHALL BE INCLUDED IN THE WEARING MIXTURE AT 5% OF THE TOP STANDARD QUANTITIES. BITUMINOUS MATERIAL FOR TACK COAT TYPE SP 12.5 WEARING COURSE MIX (4,E) TYPE LV3 NON-WEAR COURSE MIX FOR CB PATCH (LVNW35030 B) REMOVABLE PREFORM PLASTIC MARKINGS STANDARD PLATE DETAIL DESCRIPTION MANHOLE OR CATCH BASIN CONCRETE SHORT CONE AND ADJUSTING RING MANHOLE OR CATCH BASIN CONCRETE ENCASED CONCRETE ADJUSTING RINGS RING CASTING FOR MANHOLE	4126F 4161F 4149C 7100H 7111J	.05 GAL / SQ YD (SQ YD * IN. *115 LBS)/2000 = (SQ YD * IN. *115 LBS)/2000 = ((PROJECT LENGTH * 50) / 4) CATCH BASIN FRAME CAS CURB BOX CASTING FOR CATCH BASIN GRATE CAS CONCRETE CURB AND GUINSTALLATION OF CATCH	TONS TONS TING CATCH BASIN TING JTTER					

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I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME
OR UNDER MY DIRECT SUPERVISION AND THAT TAM A DULY
LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF
THE STATE OF MINNESOTA.
PRINT NAME: CHARLES CADENHEAD
SIGNATURE: LICENSE NO. 40416

DRAWN BY KPR DATE 3/1/10

 DESIGN BY
 KPR
 DATE
 3/1/10

 CHECKED BY
 JO
 DATE



ANOKA COUNTY HIGHWAY DEPT.

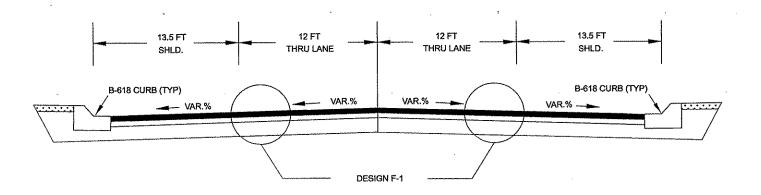
STATEMENT OF ESTIMATED QUANTITIES

COUNTY PROJECT NO. 10-16-08 Sheet

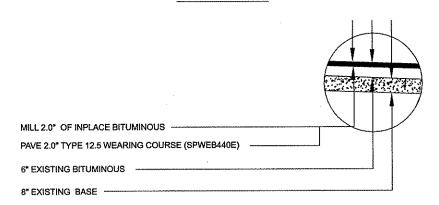
Sheet 2 of 6 Sheets

TYPICAL SECTION

STA. 10+00 - STA. 36+61



DESIGN F-1



NO	DATE	BY	CKD	APPR	REVISION	
NAME: 1	110-01-00\CSAF	1_8_(Oldoe	ntral-Count	ign 3/1/2010	11:01:23 AM	

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



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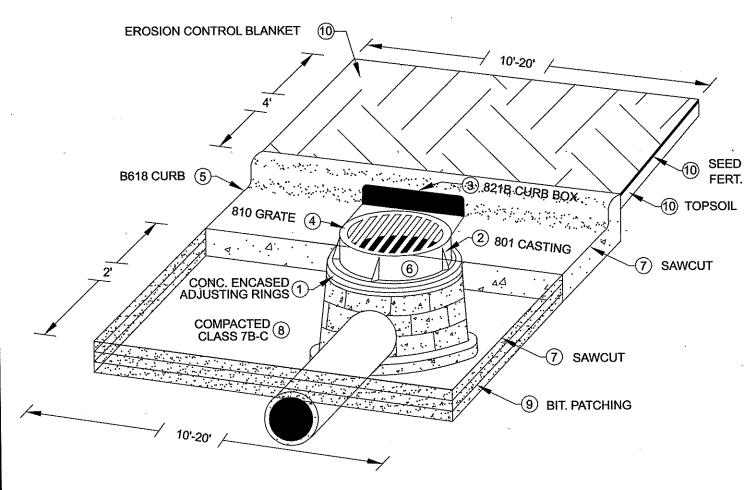
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TYPICALS

COUNTY PROJECT NO. 10-16-08

Sheet 3 of 6 Sheets

C.B. REPAIR DETAIL



NOTES.. FOR TRAFFIC CONTROL AT CATCH BASIN REPAIRS REFER TO THE MINNESOTA MANUAL ON TEMPORARY TRAFFIC CONTROL LAYOUTS FIELD MANUAL.

REFER TO MINNESOTA STANDARD PLATES MANUAL FOR THE FOLLOWING...

- 1) CONCRETE ENCASED CONCRETE ADJUSTING RINGS STANDARD PLATE 4026A
- (2) RING AND FRAME CASTING 801 STANDARD PLATE 4126F
- (3) CURB BOX 821B STANDARD PLATE 4161F
- (4) GRATE CASTING 810 STANDARD PLATE 4149C
- (5) CONCRETE CURB AND GUTTER DESIGN B STANDARD PLATE 7100G
- (6) INSTALLATION OF CATCH BASIN CASTINGS STANDARD PLATE 7111J
- (7) SAWCUT BIT./CONCRETE BUS PADS/CONCRETE CURB FULL DEPTH.
- (8) ADD AND COMPACT CL-7B-C AROUND REPAIRED STRUCTURE.
- (9) REMOVE VAR. DEPTH BITUMINOUS 3"-7" / PATCH 2-LIFTS OF BITUMINOUS.
- (10) REPLACE DISPLACED TOPSOIL- SEED, FERT. AND COVER WITH EROS. BLANKET. SEED, FERT. AND TOPSOIL INCIDENTAL TO BLANKET.

A.	STRUCTURE REPAIRS														
STRUCTURE	STATION	LOC.			SAW BIT. PAVEMENT	REMOVE BIT. PAVEMENT	REPLACE BIT. PAVEMENT	SAW CONC. PAVEMENT	EROSION CONT. BLANKET	REMOVE C&G	REPLACE B618 C:&G	CASTING	GROUT	RECONSTRUCT DRAINAGE STR.	ACTION
					LF	SY	TON	LF	SY	LF	LF	EA	EA	FT	
101	10+06	57	RT												NONE
102	10+02	31	LT												NONE
103	10+30	24	RT		24	4.4	1	6	8.8	20	20	1		0.4	RE-RING / GROUT
104	10+36	24	LT								,				NONE
105	10+51	10	RT		24	4	1					1		0.8	RE-RING / GROUT
106	16+80	24	LT			~~~~							1		GROUT
107	16+80	24	RT		24	4,4	1	6	8.8	20	20	1		0.4	RE-RING / GROUT
108	16+50	11	RT		24	4	1					1		0.4	RE-RING / GROUT
109	23+39	11	RT				***************************************						1		GROUT
111	25+00	24	LT												NONE
112	25+00	24	RT										1		GROUT
113	25+00	11	RT					·					1		GROUT
114	35+87	24	LT		24	4.4	1	6	8.8	20	20	1		0.4	RE-RING / GROUT
115	35+88	24	RT										1		GROUT
201	10+00	44	LT										1		GROUT
202	10+00	7	LT		24	4	1					1		0.6	RE-RING / GROUT
203	12+78	27	LT										1		GROUT
204	13+12	6	LT										1		GROUT
205	16+42	5	LT		.24	4	1					1		0.4	RE-RING / GROUT
206	19+71	5	LT		24	4	1					1		0.4	RE-RING / GROUT
207	23+31	4	LT		24	4	1					1		0.4	RE-RING / GROUT
207A	24+20	4	LT		24	4	1					1		0.2	RE-RING / GROUT
208	26+29	4	LT			1									NONE.
209	29+90	4	LT												NONE
210	32+90	4	LT		24	4	1					1		0.6	RE-RING / GROUT
211	36+07	22	LT												NONE
212	36+09	4	LT		24	4	1					1		1	RE-RING / GROUT
				TOTALS	288	49.2	12	18	26.4	60	60	12	8	6	

B.	SCHEDULE OF CASTINGS							
ASSEMBLY	CASTING	GRATE	CURB BOX	QTY.				
	801	810	821B	3				
	700-8	716		9				

NOTES.. FOR TRAFFIC CONTROL AT MANHOLES REFER TO MINNESOTA TEMPORARY CONTROL ZONE LAYOUTS FIELD MANUAL.

- 1 ALL CASTING HIEGHTS ARE TO BE DETERMINED IN THE FIELD.
- 2 ALL MANHOLE CASTINGS NEED TO HAVE "SANITARY SEWER" OR "WATER" STAMPED ON THEM.
- 3 ARE DRAINAGE MANHOLES AND 6 ARE SANITARY SEWER MANHOLES.
- 4 CONCRETE ENCASED CONCRETE ADJUSTING RINGS STANDARD PLATE 4026A

NOTE: NOT TO SCALE

	THE STATE OF MINNESOTA.	DRAWN BY KPR DATE 3/1/10	ANOKA COUNTY		DETAILS
		DESIGN BY KPR DATE 3/1/10	HIGHWAY DEPT.	•	
NO DATE BY CKO APPR REVISION	SIGNATURE: 1	CHECKED BY JO DATE COUNTY	1	COUNTY PROJECT NO10-16-08	Sheet <u>4</u> of <u>6</u> Sheets
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