

ANOKA COUNTY HIGHWAY DEPARTMENT

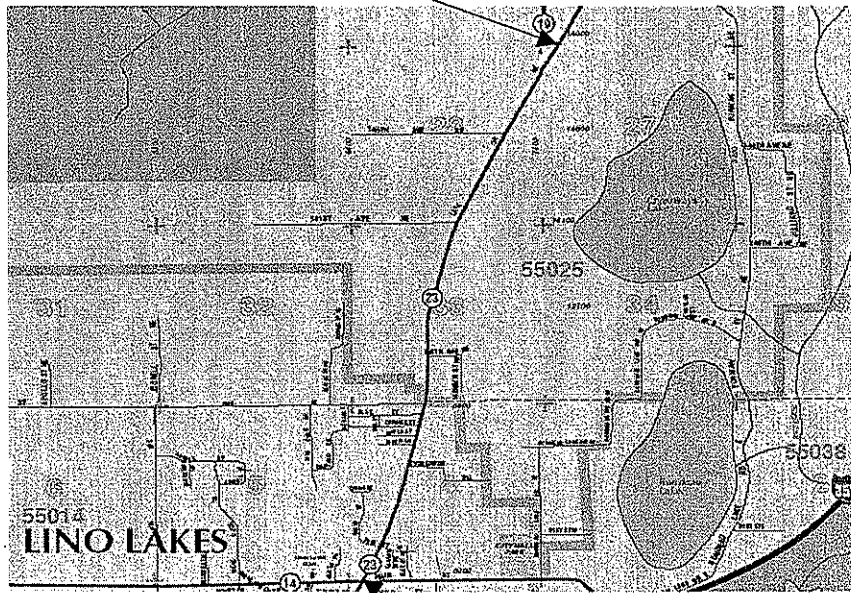
CONSTRUCTION PLAN FOR:

BIT. MILL, CRACK AND SEAT, BIT.
OVERLAY, BIT. CURB

CSAH NO: 23
FROM S. OF MAIN ST
TO N. OF POTOMAC
FROM
TO

COUNTY PROJECT NO: 05-07-23
GROSS LENGTH 17185 FT 3.3 MI
BRIDGES LENGTH 0 FT 0 MI
EXCEPTION LENGTH 0 FT 0 MI
NET LENGTH 17185 FT 3.3 MI

END PROJECT C.P. 05-07-23 STATION 181+85



--BEGIN PROJECT C.P. 05-07-23 STATION 10+00

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


ANDREW J. WITTER, P.E.

LIC. NO. 42757 DATE 4/14/05

GOVERNING SPECIFICATIONS:

THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS - JANUARY 2004."

APPROVED 4/15, 2005


ANOKA COUNTY ENGINEER

STATEMENT OF ESTIMATED QUANTITIES

ITEM NO.	ITEM	NOTE NO.	UNIT	TOTAL EST. QUANT.
2021.501	MOBILIZATION		LUMP SUM	1
2104.511	SAWING CONCRETE PAVEMENT FULL DEPTH (DRIVEWAY)		LIN FT	18
2104.513	SAWING BITUMINOUS PAVEMENT FULL DEPTH (DRIVEWAY)		LIN FT	1212
2105.543	STABILIZING AGGREGATE		CY	137
2105.607	TOPSOIL BORROW (LV)		CY	423
2211.501	CLASS 5 AGGREGATE		TON	2066
2231.603	PAVEMENT CRACKING		SQ YD	54555
2231.603	PAVEMENT SEATING		SQ YD	54555
2232.601	MILL BITUMINOUS SURFACE (3" MAINLINE)(2" FREE RT)		SQ YD	86936
2301.501	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	18
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	2578
2360.609	TYPE MV3 WEAR (MVWE35035 B) (MAINLINE 1.5") (SHLD 2")		TON	6024
2360.609	TYPE MV3 NON-WEAR MIXTURE (MVNW35035 B) 2"		TON	6585
2360.609	TYPE MV3 WEAR MIXTURE (MVWE35035 B) (DRIVEWAYS) 2"		TON	46
2535.603	BITUMINOUS CURB		LIN FT	670
2540.602	INSTALL MAIL BOX SUPPORT		EACH	94
2563.601	TRAFFIC CONTROL		LUMP SUM	1
2563.602	PORTABLE CHANGEABLE MESSAGE SIGN		UNIT DAY	10
2564.603	4" BROKEN LINE YELLOW TEMP PAINT		LIN FT	34370
2564.603	4" SOLID LINE YELLOW TEMP PAINT		LIN FT	2580
2564.603	4" SOLID LINE WHITE - EPOXY		LIN FT	36570
2564.603	4" BROKEN LINE WHITE - EPOXY		LIN FT	52
2564.603	4" BROKEN LINE YELLOW - EPOXY		LIN FT	3437
2564.603	4" SOLID LINE YELLOW - EPOXY		LIN FT	1290
2575.501	SEEDING		ACRE	1.6
2575.501	SEED MIXTURE 50 B		LB	79
2575.606	MULCH MATERIAL TYPE 2		GAL	1375
2575.531	COMMERCIAL FERT. ANALYSIS 22-5-10		LB	789
2580.603	REMOVABLE LANE TAPE		LIN FT	2665

BASIS OF PLANNED QUANTITIES

2221.501	AGGREGATE BASE CLASS 5	CU YDS * 1.8 = TONS
2357.502	BITUMINOUS MATERIAL FOR TACK COAT	.05 GAL / SQ YD
2360.609	TYPE MV3 WEAR MIXTURE (MVWE35035 B)	110 LBS/SQYD/IN THICKNESS
2360.609	TYPE MV3 NON-WEAR MIXTURE (MVNW35035 B)	110 LBS/SQYD/IN THICKNESS
2575.502	SEED MIXTURE 50 B	50LBS / ACRE
2575.606	MULCH MATERIAL TYPE 2	0.18 GAL / SQ YD
2575.531	COMMERCIAL FERTILIZER 22-5-10	500LB/ACRE
2580.603	TEMPORARY LANE MARKING	4' AT 50' INTERVALS FOR SKIPS

STANDARD DETAIL PLATES

PLATE NO.	DESCRIPTION
80001	STANDARD BARRICADES

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PROJ. 05-07-23

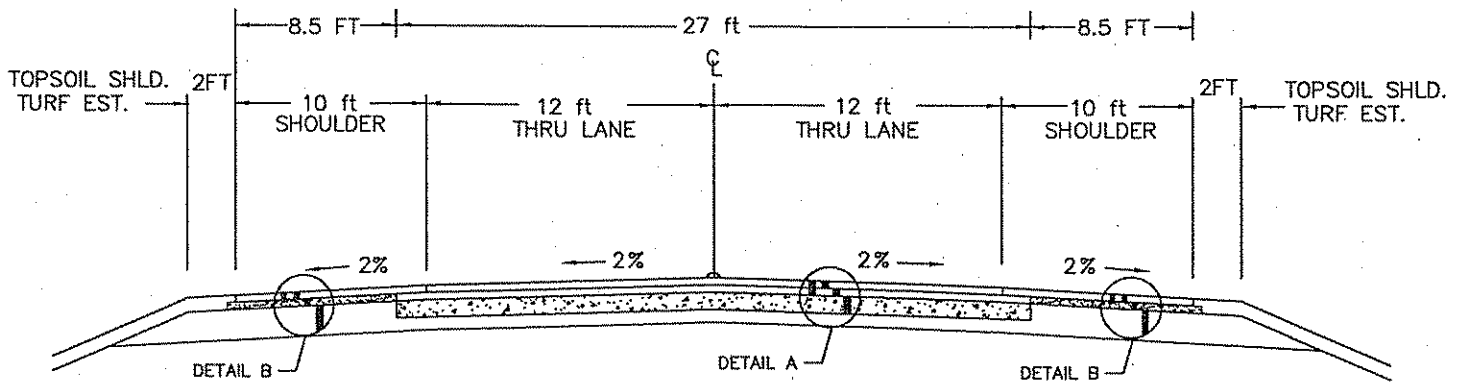
Andrew J. Witter

ANDREW J. WITTER, P.E.

LIC. NO. 42757 DATE 4/14/05
SHEET NO. 2 OF 7 SHEETS

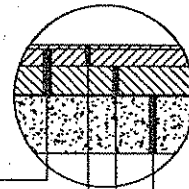
TYPICAL SECTIONS

CSAH 23 STANDARD SECTION



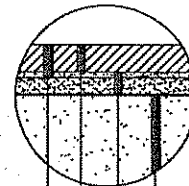
DETAIL A-PROPOSED MAINLINE

- MILL EXISTING 3" BIT. PAVT FULL WIDTH
- CONSTRUCT 1.5" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)
- CONSTRUCT 2" TYPE MV3 NON-WEARING CORSE MIXTURE (MVNV35035 B)
- CRACK AND SEAT EXISTING 27' WIDE X 7" DEPTH CONCRETE



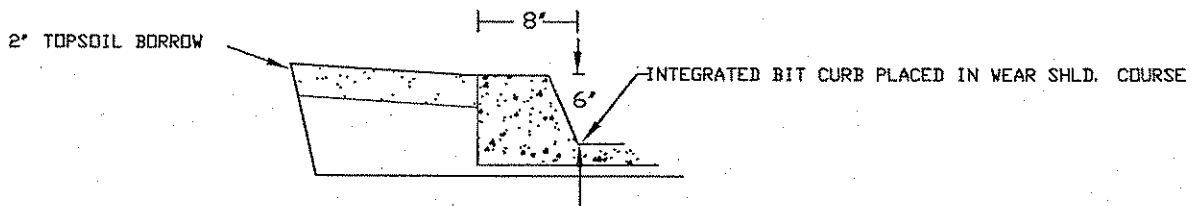
DETAIL B-PROPOSED SHOULDER

- MILL EXISTING 3" BIT. PAVT FULL WIDTH
- CONSTRUCT 2" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)
- CONSTRUCT 2" CL 5 AGGREGATE
- EXISTING BASE MATERIAL



BITUMINOUS CURB DETAIL

STATION 12+50 - 16+50 LSB
STATION 18+50 - 21+20 LNB



- ① EXISTING BITUMINOUS CURB TO BE MILLED WITH SHOULDER
- ② PROPOSED BITUMINOUS CURB TO BE PAID AS BITUMINOUS CURB, ITEM NO. 2535.603

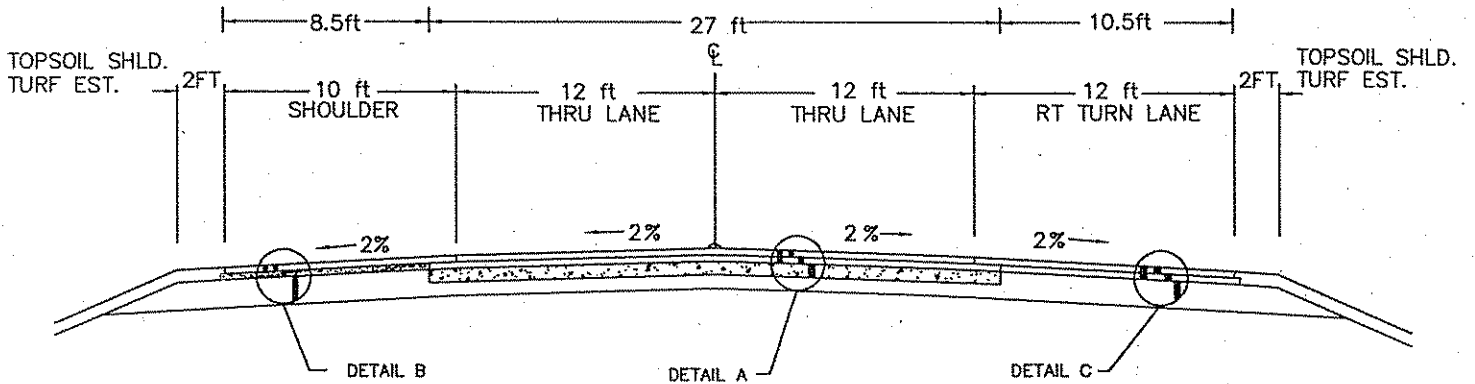
NOTE: NOT TO SCALE

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ANDREW J. WITTER, P.E.
C.P. 05-07-23

LIC. NO. 42757 DATE 4/14/08
SHEET NO. 3 OF 7 SHEETS

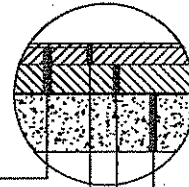
TYPICAL SECTIONS

CSAH 23 RT. TURN LANE / BYPASS SECTIONS



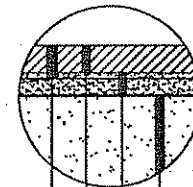
DETAIL A-PROPOSED MAINLINE

- MILL EXISTING 3" BIT. PAV'T FULL WIDTH
- CONSTRUCT 1.5" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)
- CONSTRUCT 2" TYPE MV3 NON-WEARING CORSE MIXTURE (MVNW35035 B)
- CRACK AND SEAT EXISTING 27' WIDE X 7" DEPTH CONCRETE



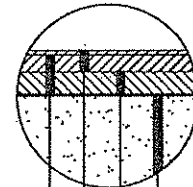
DETAIL B-PROPOSED SHOULDER

- MILL EXISTING 3" BIT. PAV'T FULL WIDTH
- CONSTRUCT 2" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)
- CONSTRUCT 2" CL 5 AGGREGATE
- EXISTING BASE MATERIAL



DETAIL C-PROPOSED RTL

- MILL EXISTING 3" BIT. PAV'T FULL WIDTH
- CONSTRUCT 1.5" TYPE MV3 WEARING COURSE MIXTURE (MVWE35035 B)
- CONSTRUCT 2" TYPE MV3 NON-WEARING CORSE MIXTURE (MVNW35035 B)
- EXISTING BASE MATERIAL



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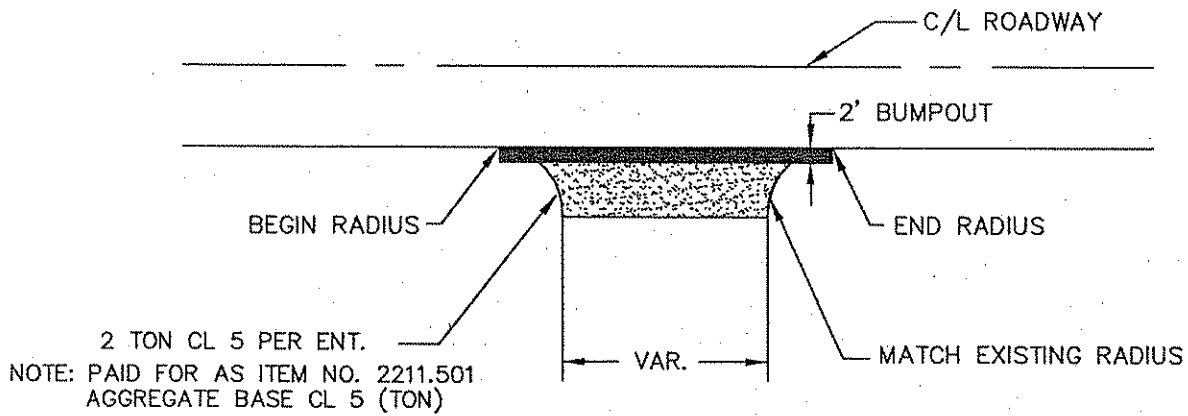
C.P. 05-07-23

LIC. NO. 42757 DATE 4/14/05

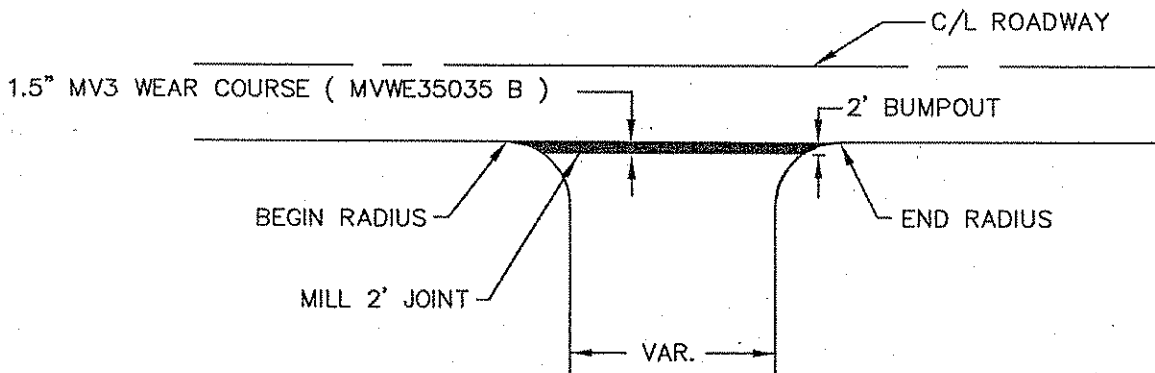
SHEET NO. 4 OF 7 SHEETS

TYPICAL SECTIONS

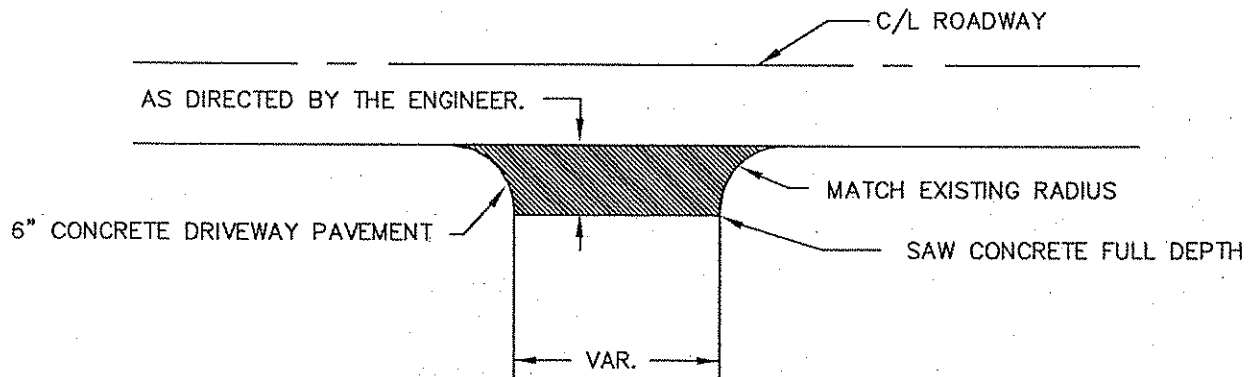
FIELD AND UNPAVED ENTRANCES



PAVED DRIVEWAYS



CONCRETE DRIVEWAY



NOTE: NOT TO SCALE

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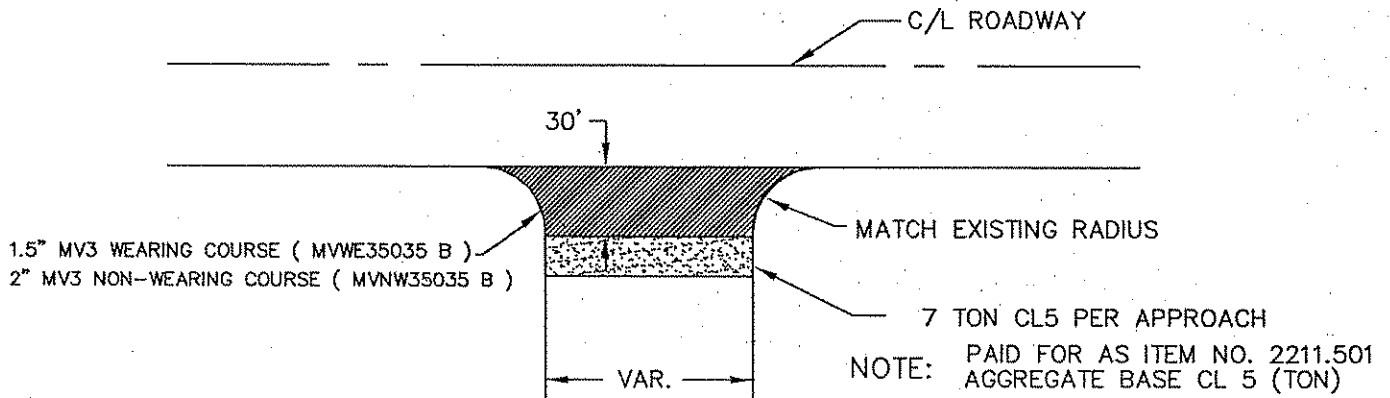
C.P. 05-07-23

LIC. NO. 42757 DATE 4/14/05

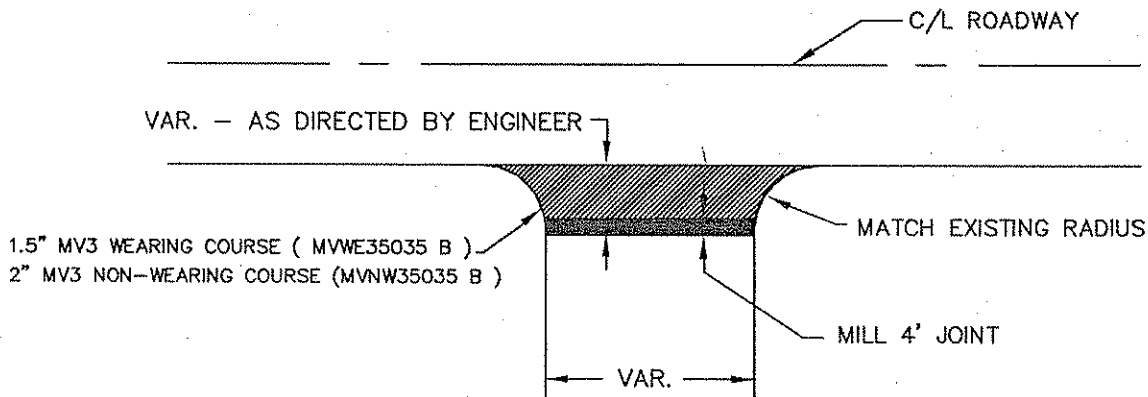
SHEET NO. 5 OF 7 SHEETS

TYPICAL SECTIONS

UNPAVED STREET APPROACHES



PAVED STREET APPROACHES



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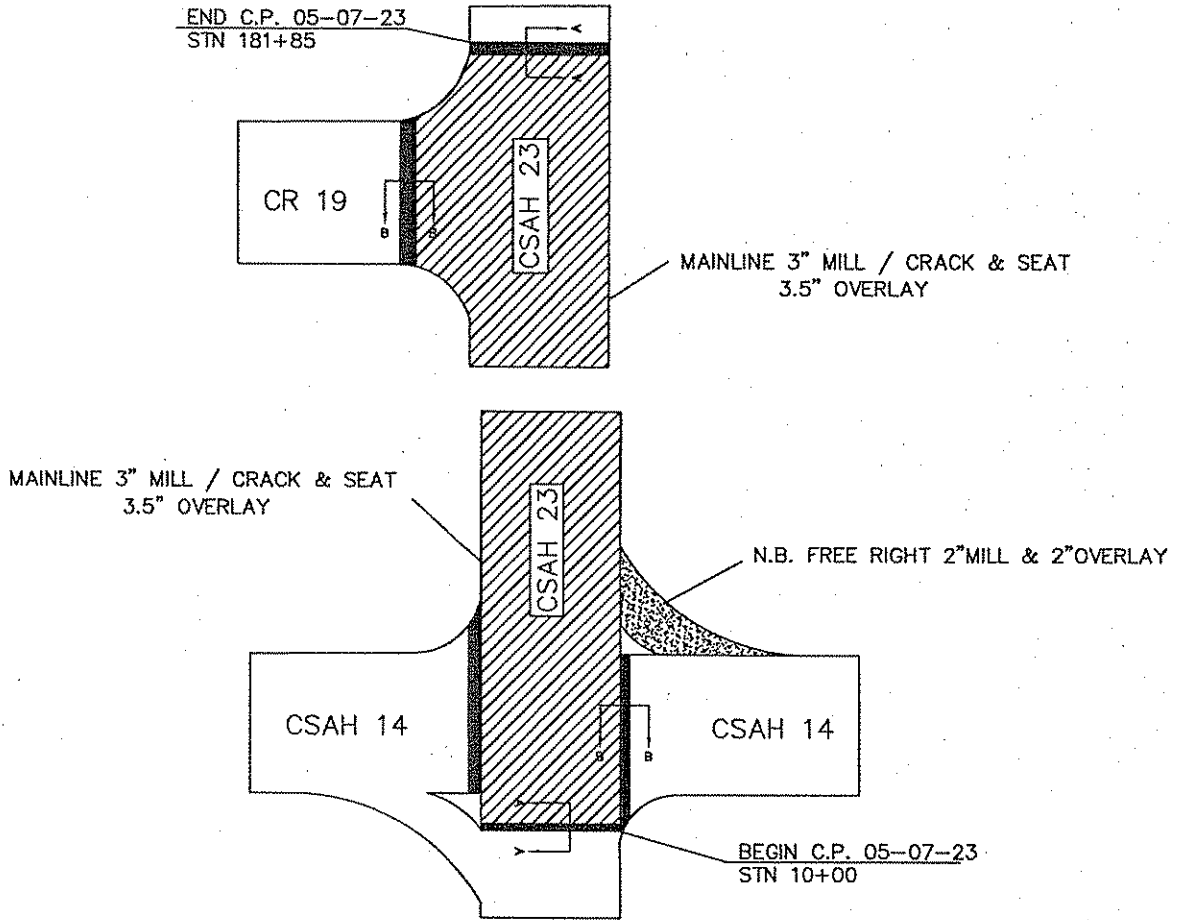
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LIC. NO. 42757 DATE 4/14/05

SHEET NO. 6 OF 7 SHEETS

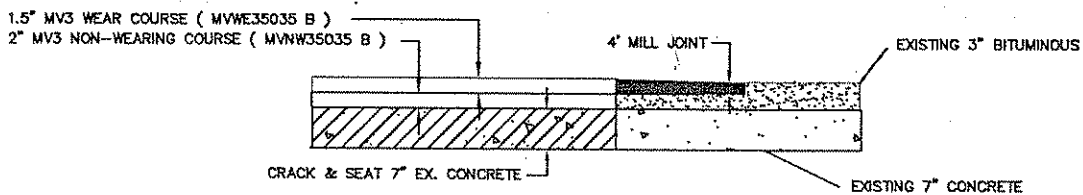
TYPICAL SECTIONS

JOINT DETAILS



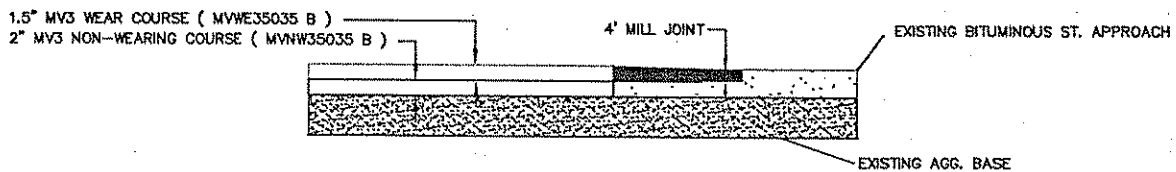
MILL DETAIL A-A
BEGIN & END

TRANSITION LENGTH TO BE DETERMINED BY ENGINEER.



MILL DETAIL B-B
PAVED STREET APPROACHES

TRANSITION LENGTH TO BE DETERMINED BY ENGINEER.



NOTE: NOT TO SCALE

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C.P. 05-07-23

SHEET NO. 7 OF 7 SHEETS