

# ANOKA COUNTY HIGHWAY DEPARTMENT

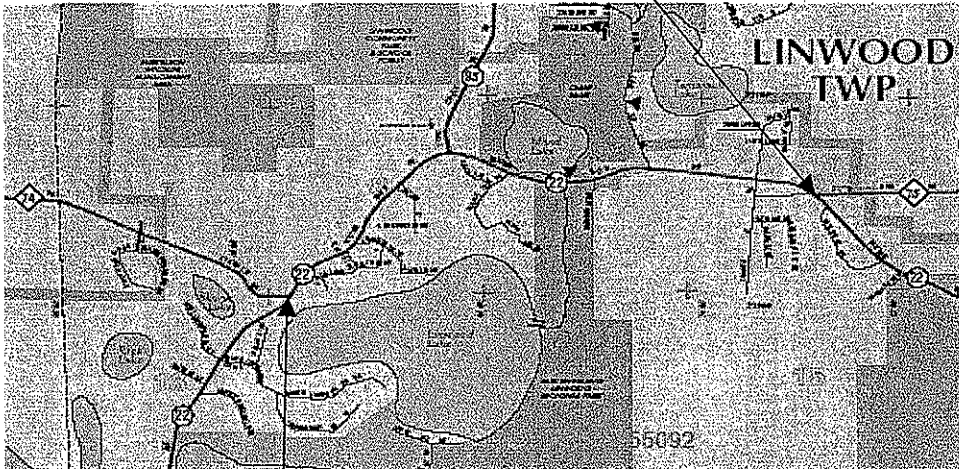
CONSTRUCTION PLAN FOR:

BIT. RECLAIM, BIT.  
OVERLAY, CONSTRUCT NEW  
ALIGNMENT

CSAH NO: 22  
FROM CR 74  
TO CR 75  
FROM  
TO

COUNTY PROJECT NO: 05-09-22  
GROSS LENGTH 15350 FT 2.9 MI  
BRIDGES LENGTH 0 FT 0.00 MI  
EXCEPTION LENGTH 0 FT 0.00 MI  
NET LENGTH 15350 FT 2.9 MI

END PROJECT C.P. 05-09-22 STATION 163+50



BEGIN PROJECT C.P. 05-09-22 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

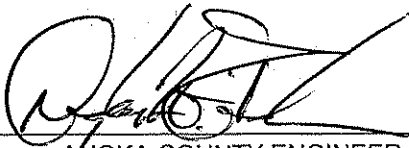
  
ANDREW J. WITTER, P.E.

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
2101.502	CLEARING		EACH	11
2101.507	GRUBBING		EACH	11
2104.503	REMOVE CONCRETE DRIVEWAY PAVEMENT		SQ YD	27
2104.511	SAW CONCRETE PAVEMENT FULL DEPTH		LIN FT	24
2104.513	SAWCUT BITUMINOUS FULL DEPTH		LIN FT	246
2105.501	COMMON EXCAVATION ( CR 74 )		CU YDS	1090
2123.503	MOTOR GRADER		HOUR	24
2123.521	PNEUMATIC-TIRED ROLLER		HOUR	24
2130.501	WATER		M-GAL	114
2211.501	AGGREGATE BASE CLASS 5		TON	3304
2221.609	AGGREGATE SHOULDERING CLASS 7B		TON	1036
2232.501	MILL BITUMINOUS SURFACE (2" JOINTS )		SQ YD	296
2331.604	BITUMINOUS PAVEMENT RECLAMATION		SQ YD	75983
2357.502	BITUMINOUS MATERIAL FOR TACK COAT		GALLON	2387
2360.609	TYPE MV3 WEAR MIXTURE ( MAINLINE / RTL / SHLDR ) ( MVWE35035 B )		TON	8165
2360.609	TYPE LV3 WEAR MIXTURE ( ST./ DR. ) ( LVWE35030 B )		TON	133
2360.609	TYPE LV3 NON-WEAR MIXTURE ( MAINLINE ) ( LVNW35030 B )		TON	5164
2360.609	TYPE LV3 NON-WEAR MIXTURE ( ST./ DR. ) ( LVNW35030 B )		TON	139
2531.507	6" CONCRETE DRIVEWAY PAVEMENT		SQ YD	27
2540.602	INSTALL MAIL BOX SUPPORT		EACH	30
2563.601	TRAFFIC CONTROL		LUMP SUM	1
2563.602	PORTABLE CHANGEABLE MESSAGE SIGN		UNIT DAY	10
2564.603	4" SOLID LINE WHITE - EPOXY		LIN FT	30806
2564.603	4" BROKEN LINE WHITE-EPOXY		LIN FT	76
2564.603	4" BROKEN LINE YELLOW-EPOXY		LIN FT	1010
2564.603	4" SOLID LINE YELLOW - EPOXY		LIN FT	3055
2564.603	4" DOUBLE SOLID LINE YELLOW - EPOXY		LIN FT	10245
2575.501	SEEDING		ACRE	0.3
2575.502	SEED MIXTURE 50 B		POUND	15
2575.511	MULCH MATERIAL TYPE 3		TON	0.6
2575.519	DISK ANCHORING		ACRE	0.3
2575.531	COMMERCIAL FERTILIZER 22-5-10		POUND	150
2580.603	REMOVABLE LANE TAPE		LIN FT	1256

**BASIS OF PLANNED QUANTITIES**

2211.501	AGGREGATE BASE CLASS 5	CU YDS * 1.8 = TONS
2221.609	AGGREGATE SHOULDERING CLASS 7B	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 LV3 NON-WEAR MIXTURE ( LVNW35030 B )	110 LBS/SQYD/IN THICKNESS
2575.502	SEED MIXTURE 50 B	50LBS / ACRE
2575.511	MULCH MATERIAL TYPE 3	2 TONS / ACRE
2575.531	COMMERCIAL FERTILIZER 22-5-10	500LB/ACRE
2580.603	REMOVABLE LANE TAPE	4' AT 50' INTERVALS FOR SKIPS

**STANDARD DETAIL PLATES**

PLATE NO.	DESCRIPTION
80001	STANDARD BARRICADES

CERTIFIED BY

*Andrew J. Witter*

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LIC. NO. 42757 DATE

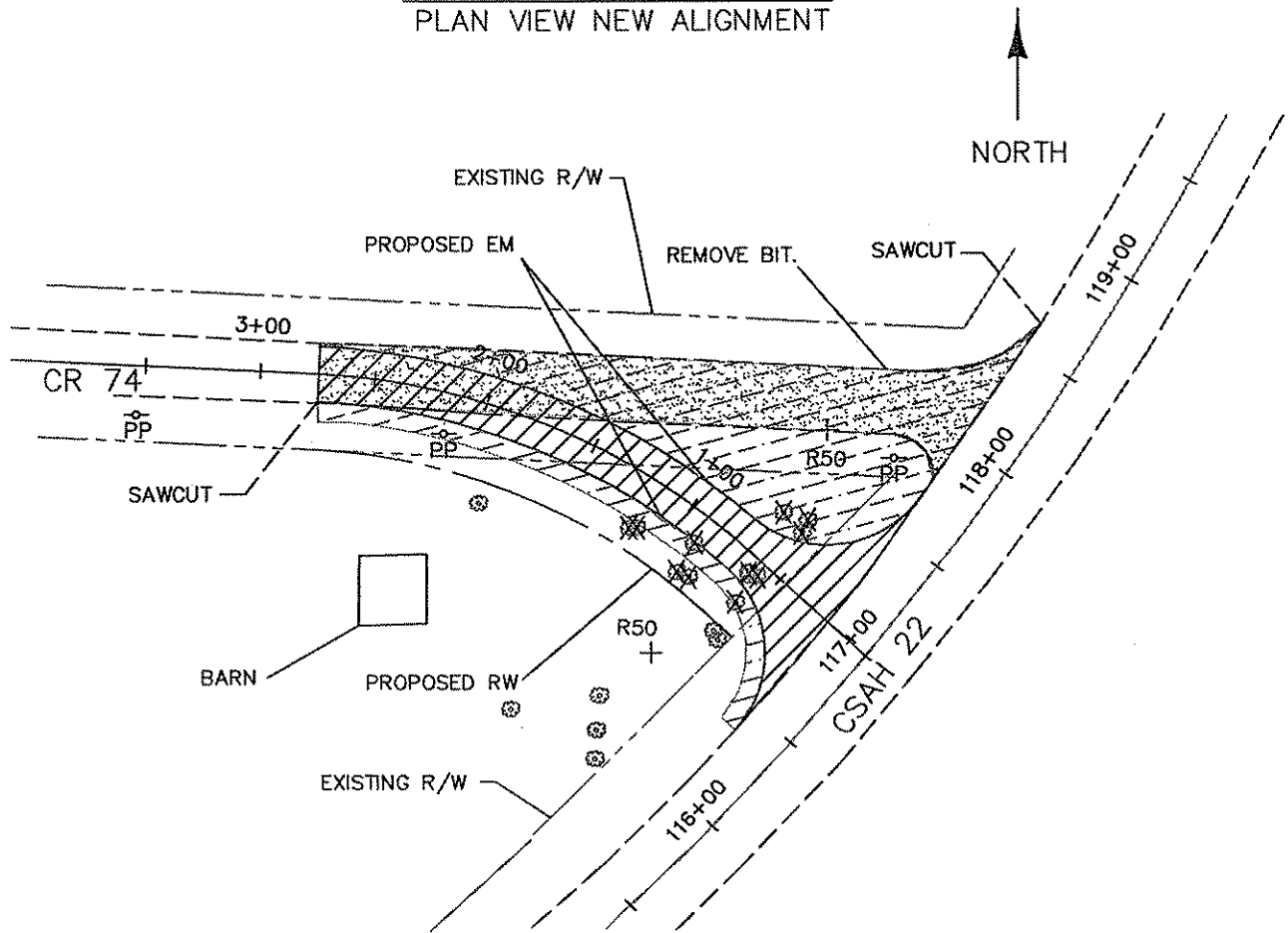
4/14/05

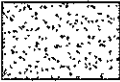



PROJ. 05-09-22

SHEET NO. 2 OF 11 SHEETS

# TYPICAL SECTIONS

## CSAH 22 & CR 74 PLAN VIEW NEW ALIGNMENT



-  REMOVE EXISTING BITUMINOUS
-  CLEAR AND GRUB
-  CONSTRUCT NEW ALIGNMENT
-  SEED

NOTE: NOT TO SCALE

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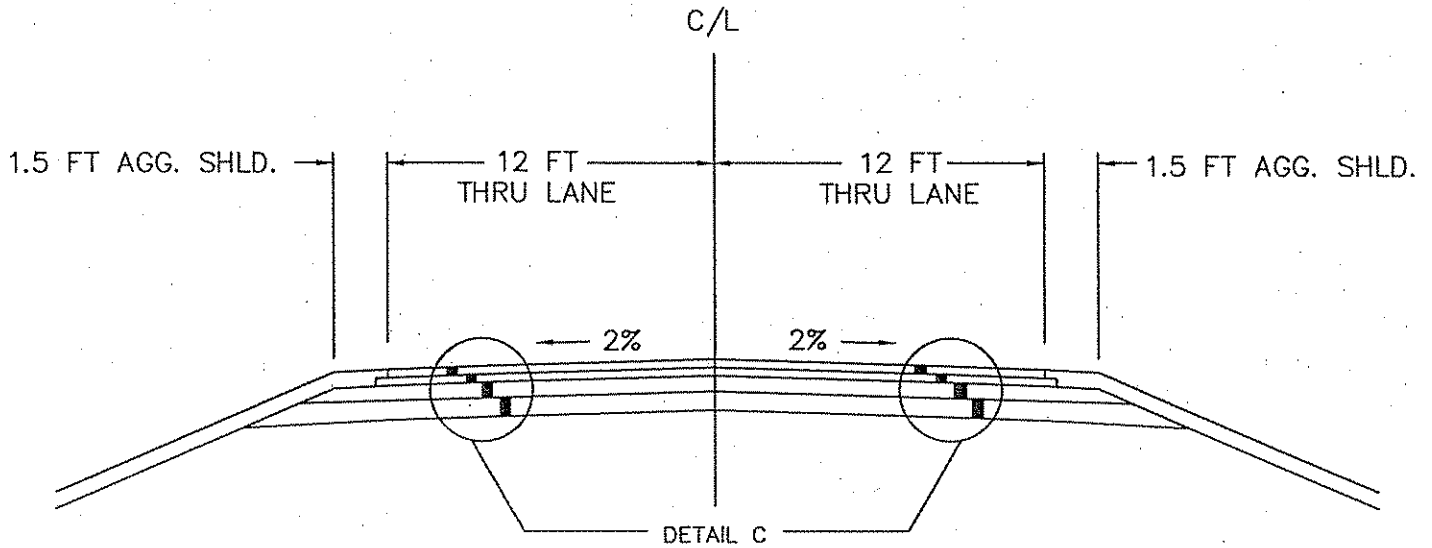
C.P. 05-09-22

SHEET NO. 3 OF 11 SHEETS

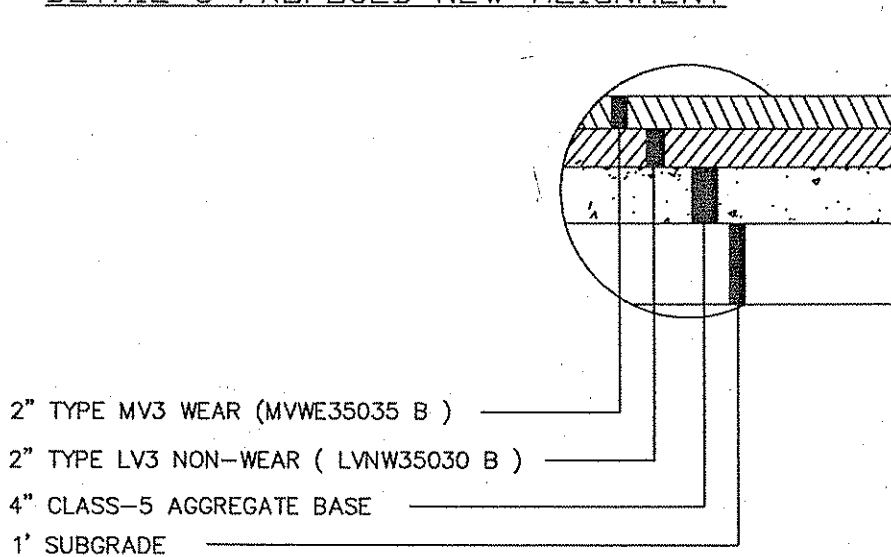
# TYPICAL SECTIONS

## NEW ALIGNMENT CR 74

STA 0+22 TO STA 2+75



### DETAIL C-PROPOSED NEW ALIGNMENT



NOTE: NOT TO SCALE

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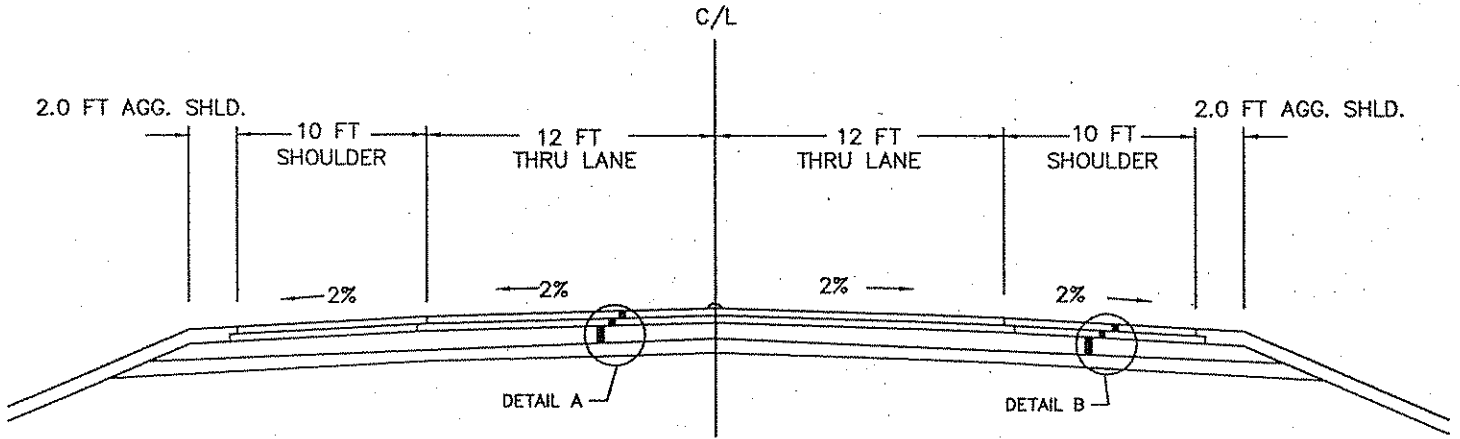
C.P. 05-09-22

LIC. NO. 42757 DATE 4/14/05

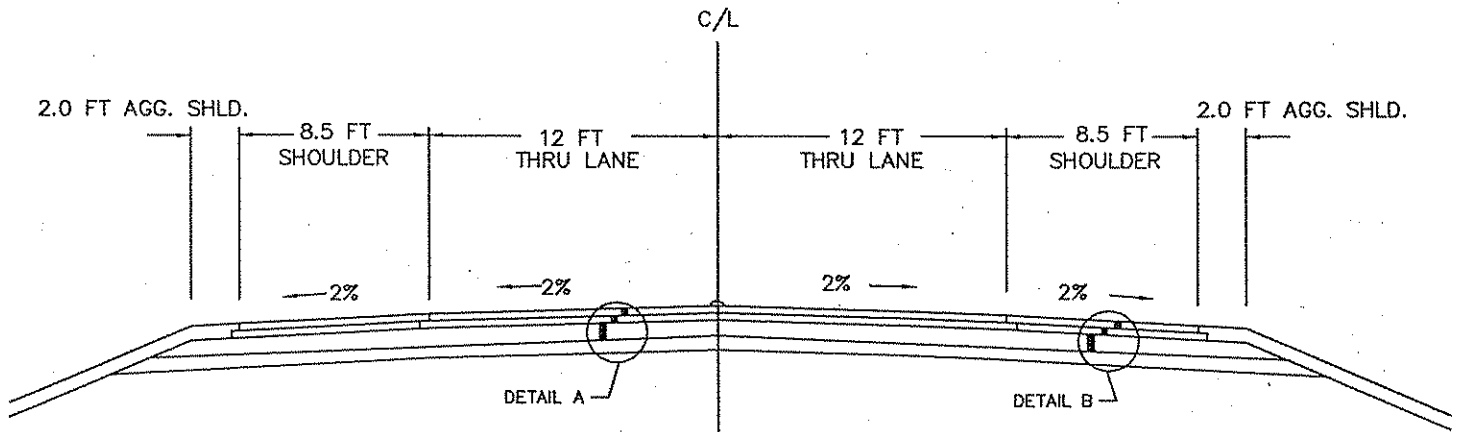
SHEET NO. 4 OF 11 SHEETS

# TYPICAL SECTIONS

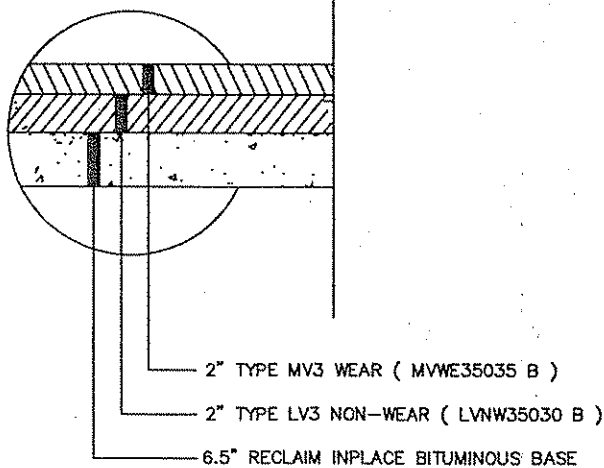
## STANDARD SECTION STA 10+00 TO 124+72



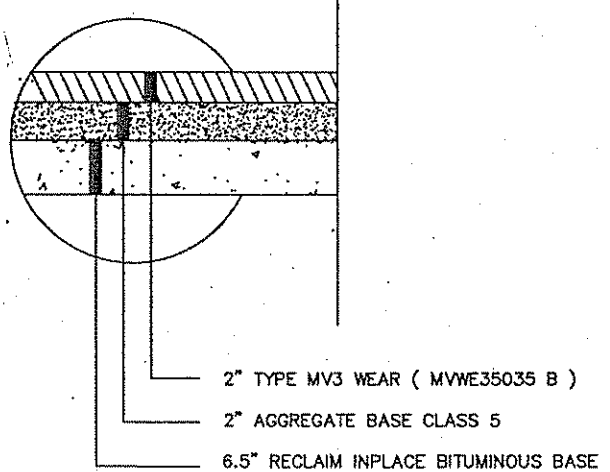
## STANDARD SECTION STA 124+72 TO 163+50



DETAIL A-PROPOSED MAINLINE



DETAIL B PROPOSED SHOULDER



NOTE: NOT TO SCALE

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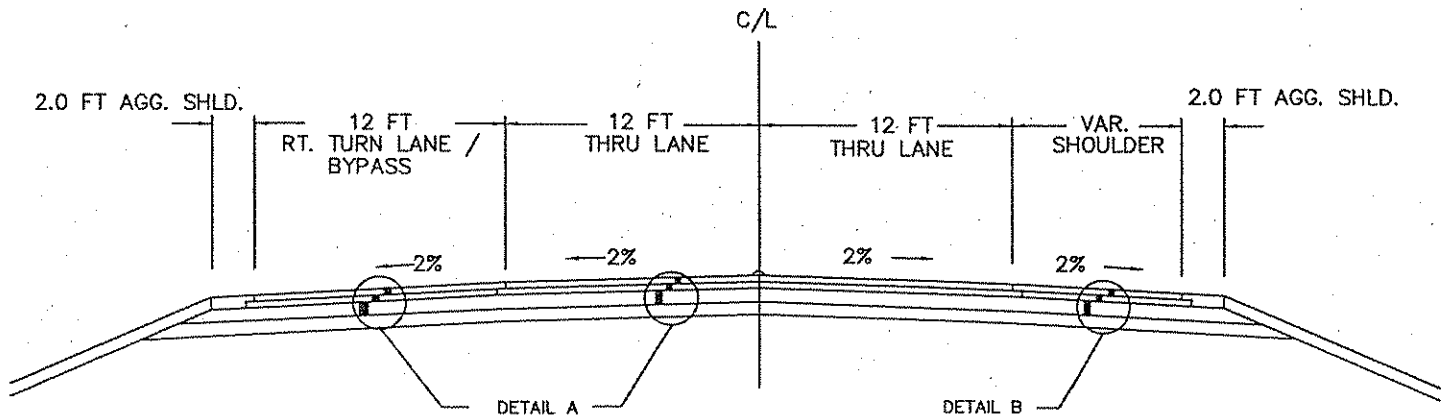
LIC. NO. 42757 DATE 4/14/05

SHEET NO. 5 OF 11 SHEETS

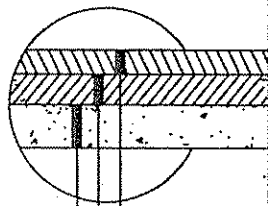
# TYPICAL SECTIONS

## RT. TURN LN. / BYPASS SECTION

CR 74, CR 85  
MARTIN LK. RD., CR 75

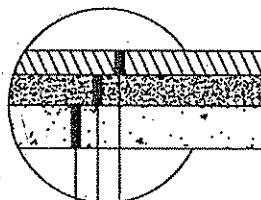


DETAIL A-PROPOSED MAINLINE / RTL



- 2" TYPE MV3 WEAR (MVWE35035 B)
- 2" TYPE LV3 NON-WEAR (LVNW35030 B)
- 6.5" RECLAIM INPLACE BITUMINOUS BASE

DETAIL B PROPOSED SHOULDER



- 2" TYPE MV3 WEAR (MVWE35035 B)
- 2" AGGREGATE BASE CLASS 5
- 6.5" RECLAIM INPLACE BITUMINOUS BASE

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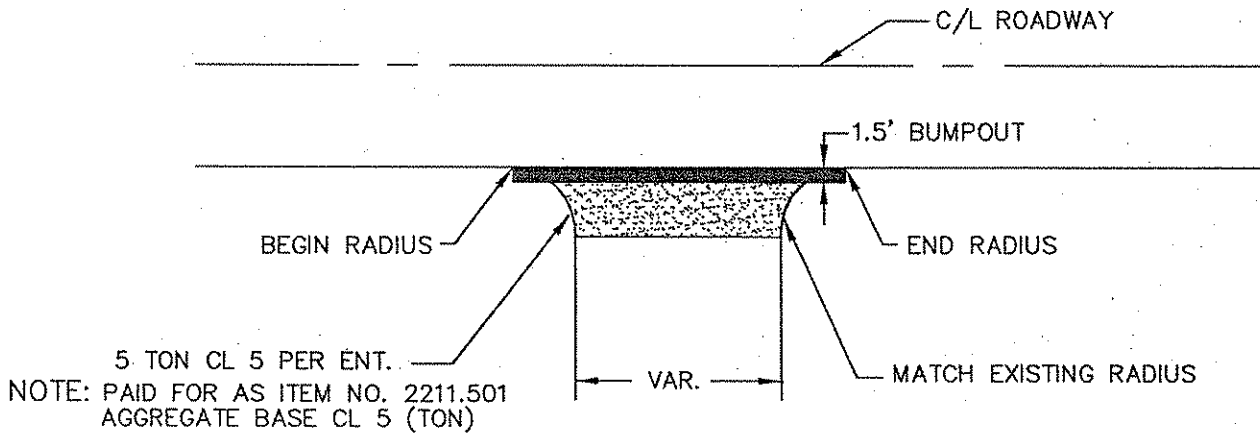
DATE 4/14/05

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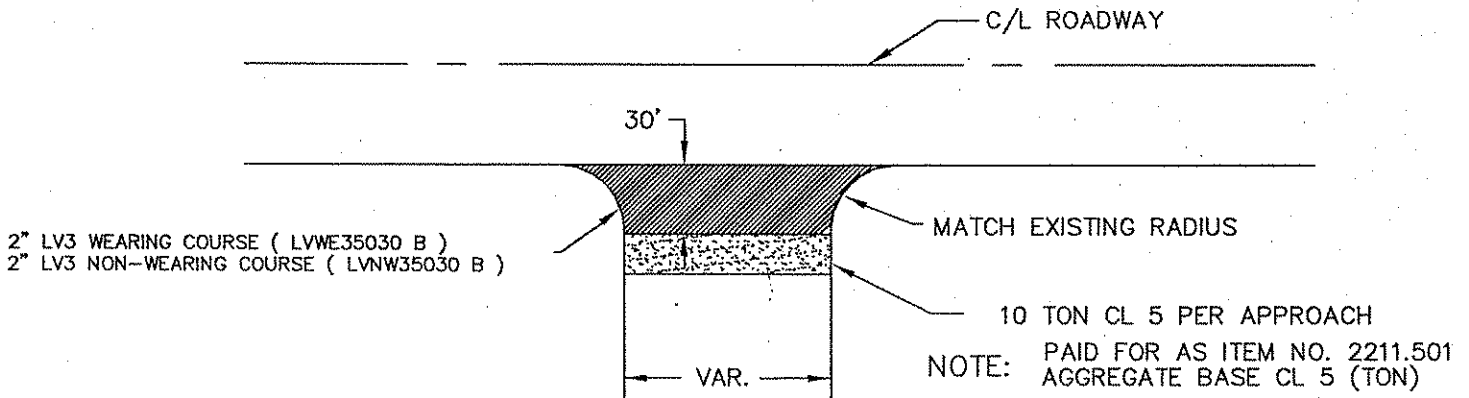
SHEET NO. 6 OF 11 SHEETS

# TYPICAL SECTIONS

## FIELD AND UNPAVED ENTRANCES



## UNPAVED STREET APPROACHES



NOTE: NOT TO SCALE

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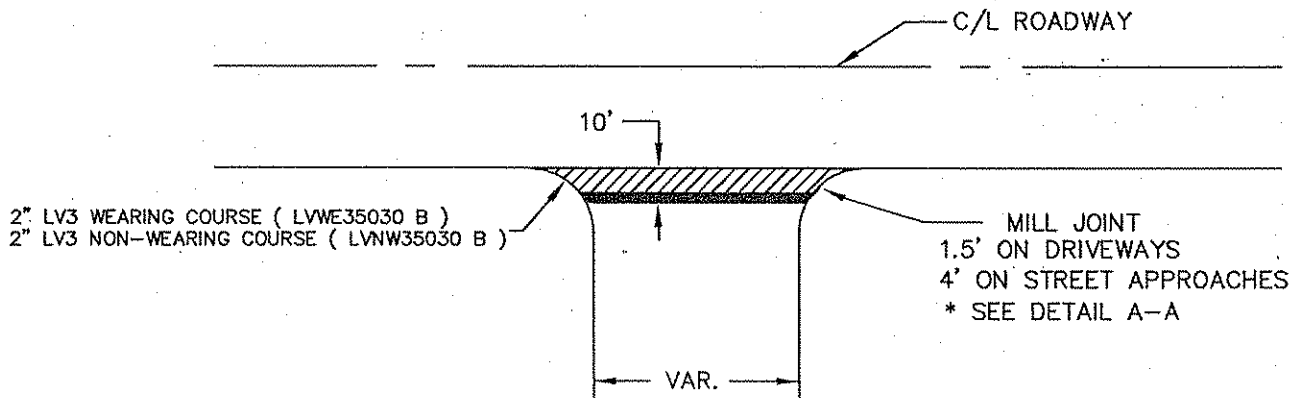
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DATE 4/14/05

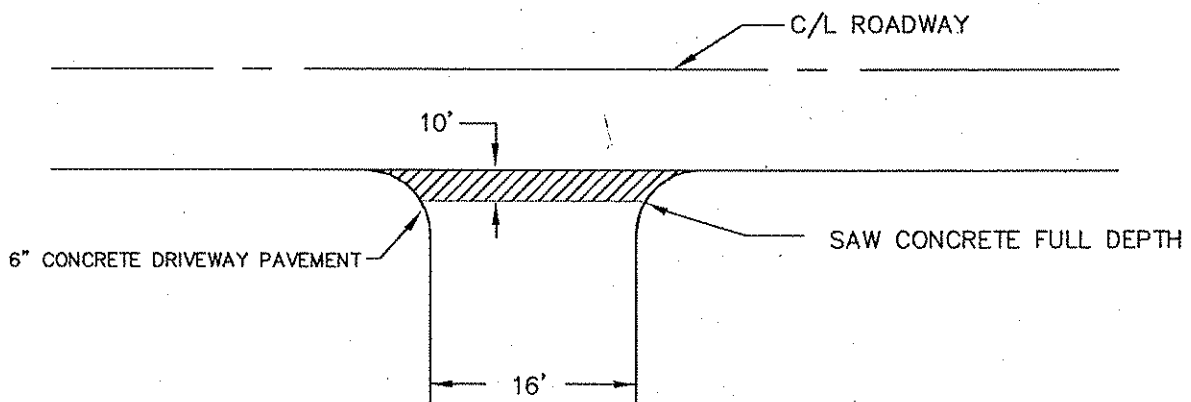
SHEET NO. 7 OF 11 SHEETS

# TYPICAL SECTIONS

## PAVED DRIVEWAYS/PAVED STREET APPROACHES



## CONCRETE DRIVEWAYS



NOTE: NOT TO SCALE

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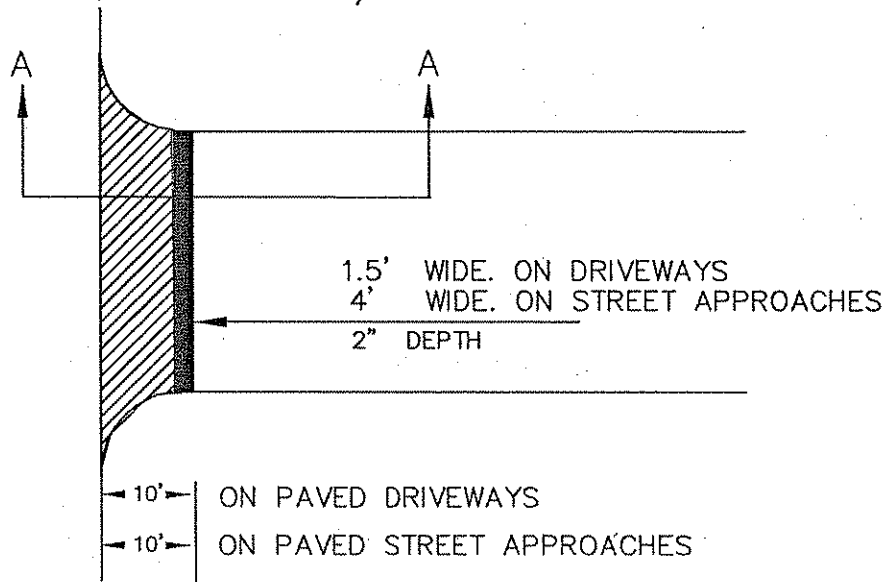
DATE 4/14/05

SHEET NO. 8 OF 11 SHEETS

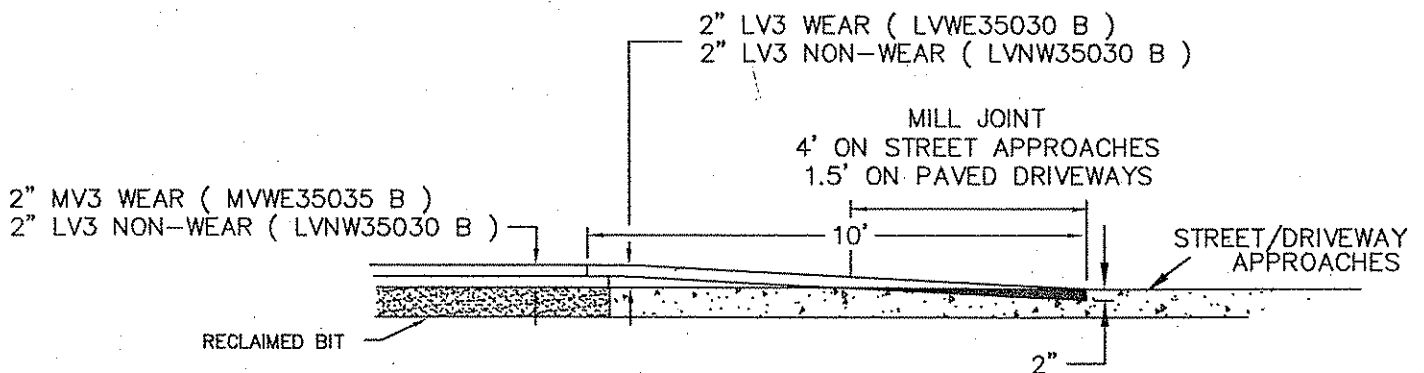


# TYPICAL SECTIONS

## JOINT DETAILS DRIVEWAYS/STREET APPROACHES



## JOINT DETAILS DRIVEWAYS/STREET APPROACHES



NOTE: NOT TO SCALE

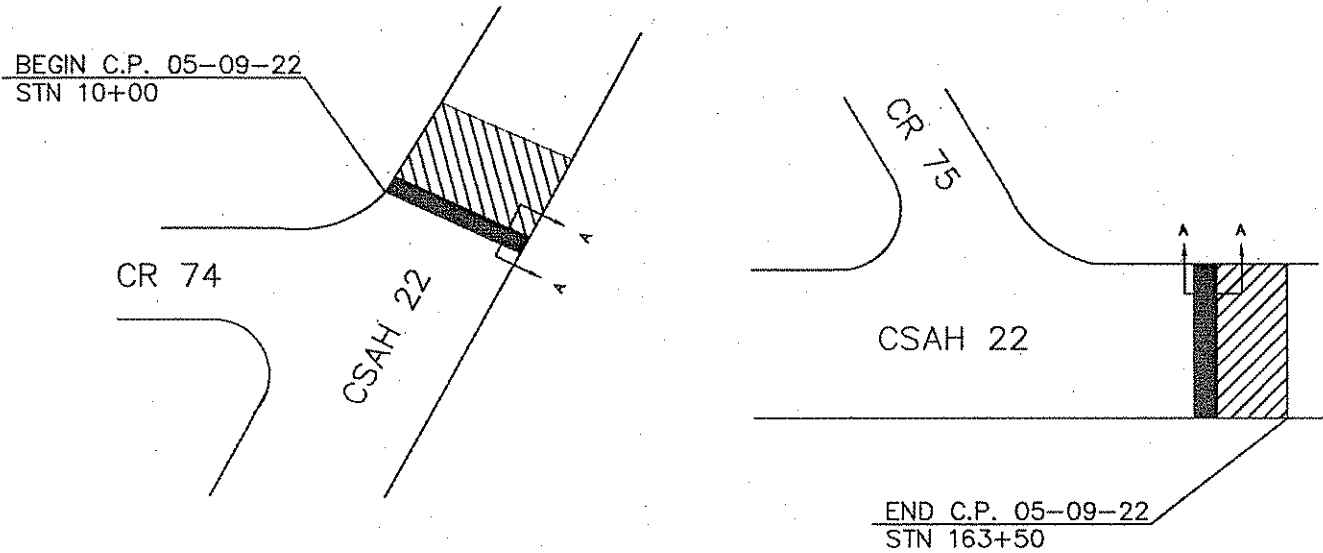
CERTIFIED BY Andrew J. Witter  
(ANDREW J. WITTER, P.E.)  
C.P. 05-09-22

LIC. NO. 42757 DATE 4/14/05  
SHEET NO. 9 OF 11 SHEETS

# TYPICAL SECTIONS

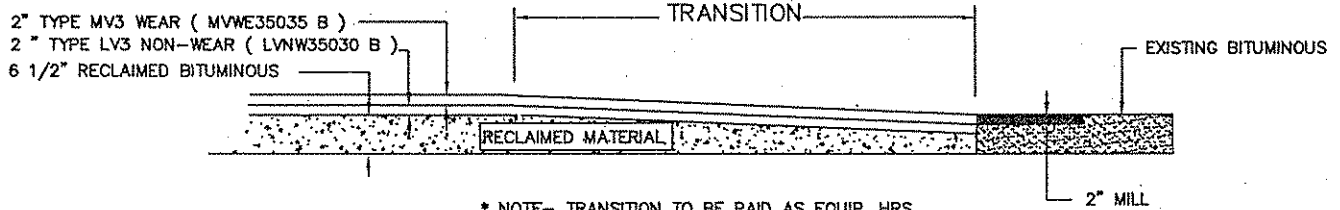
## TRANSITION DETAIL

TRANSITION LENGTH TO BE DETERMIND BY ENGINEER.



## TRANSITION DETAIL A - A

TRANSITION LENGTH TO BE DETERMIND BY ENGINEER.



\* NOTE- TRANSITION TO BE PAID AS EQUIP. HRS FOR MOTOR GRADER & ROLLER TO MOVE AND COMPACT RECLAIMED MATERIAL FOR JOINT.

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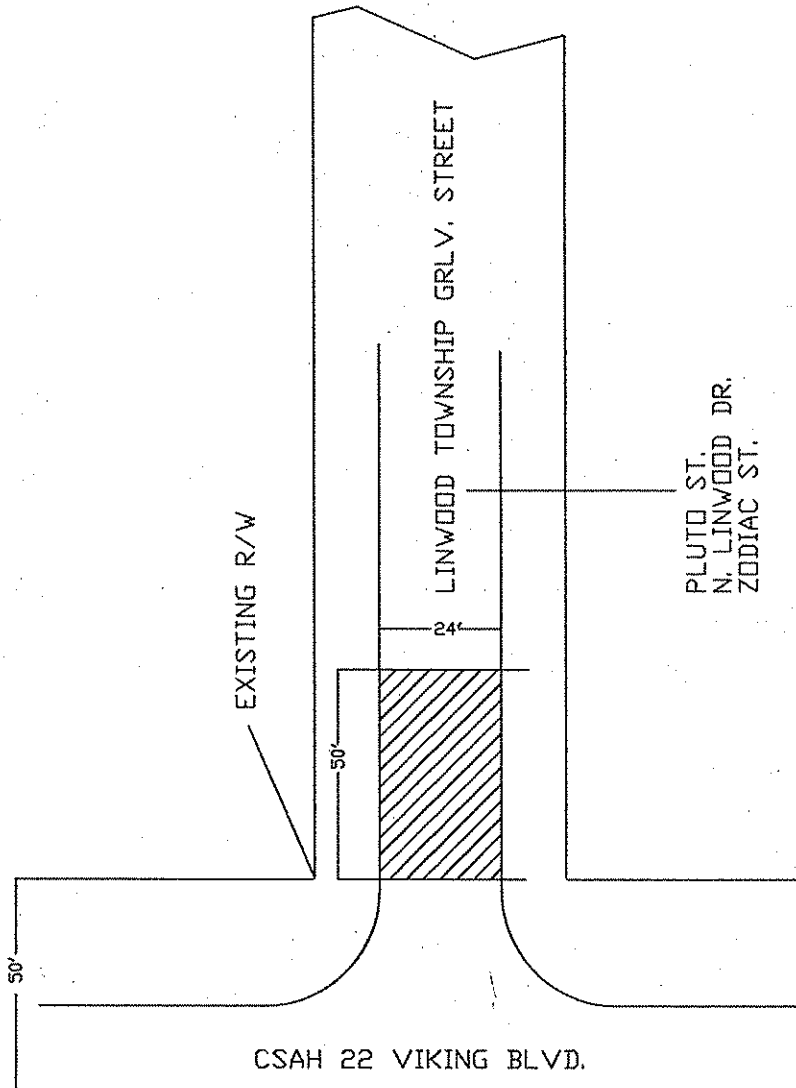
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LIC. NO. 42757 DATE 4/14/08  
SHEET NO. 10 OF 11 SHEETS

# TYPICAL SECTIONS

## LINWOOD TOWNSHIP STREET DETAILS

PLUTO ST. / N. LINWOOD DR. / ZODIAC ST.



2" BASE COURSE AND 2" WEAR COURSE  
50' ADDITIONAL PAVING BEYOND COUNTY R/W  
FOR LINWOOD TOWNSHIP

NOTE: NOT TO SCALE

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LIC. NO. 42757

DATE 2/14/05

C.P. 05-09-22

SHEET NO. 11 OF 11 SHEETS