ANDKA COUNTY HIGHWAY DEPARTMENT CONSTRUCTION PLAN FOR: COLD RECYCLING INPLACE BIT., RT TURN LN CONSTR. & BITUMINOUS SURFACING COUNTY ROAD NO. _____C.S.A.H. 24 From: C.R. NO. 103 (229TH AVE.) To: C.S.A.H. NO. 13 (UNIVERSITY AVE. EXT.) COUNTY PROJECT NO. 99-10-24 GROSS LENGTH <u>18968. 00</u> FEET <u>3. 592</u> MILES BRIDGES LENGTH _____O.OO_ FEET __O.OOO_ MILES BEGIN C.P. 99-10-24 EXCEPTIONS LENGTH 0.00 FEET 0.000 MILES NET LENGTH 18968. 00 FEET 3. 592 MILES ADT (1997) = 1018ISANTI COUNTY 7 TON DESIGN

GOVERNING SPECIFICATIONS

CITY OF ST. FRANCIS

THE 1995 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION".

ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS" DATED JANUARY 1998. ALL APPLICABLE FEDERAL, STATE AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

END C.P. 99-10-24

I HEREBY CERTIFY THAT THIS PLAN WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY REGISTERED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINN.

ASSISTANT COUNTY ENGINEER

APPROVED: 42/97.

ANOKA COUNTY ENGINEER

COUNTY PROJECT 99-10-24

SHEET 1 OF 10 SHEETS

	STATEMENT OF ESTIMATED QUANT	ITIES	
ITEM NO	ITEM	UNIT	EST. QUANT.
2021. 501	MOBILIZATION	LS	1
2101. 501	CLEARING	ACRE	0. 25
2101, 502	CLEARING	TREE	10
2101. 506	GRUBBING .	ACRE	0. 25
2101. 507	GRUBBING	TREE	8
2104. 501	REMOVE PIPE CULVERTS	LIN FT	24
2104, 503	REMOVE CONCRETE PAVEMENT	SQ YD	22
2104. 503	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SQ YD	62
2104. 511	SAWING CONCRÈTE PAVEMENT	LIN FT	10
2104. 513	SAWING BITUMINOUS PAVEMENT	LIN FT	11
① 2104. 523	SALVAGE SIGN TYPE C	EACH	5
2 2104, 523	SALVAGE SIGN TYPE SPECIAL	EACH	1
2105. 501	COMMON EXCAVATION	CU YD	(P) 793
2105, 522	SELECT GRANULAR BORROW (LV)	CU YD	410
2120, 501	EARTH SHOULDERING	CU YD	1138
③ 2211.501	AGGREGATE BASE CLASS 5	TON	667
4 2123, 503	MOTOR GRADER	HOUR	72
<u>\$ 2130, 501</u>	WATER	M-GAL	72
<u>© 2232, 501</u>	MILL BITUMINOUS SURFACE	SQ YD	60
2331. 604	COLD RECYCLE INPLACE BITUMINOUS MIXTURE	SQ YD	48474
2350, 604	TYPE MV 4 WEAR COURSE MIX 1 1/2" THICK	SQ YD	421
2350, 604	TYPE MV 4 WEAR COURSE MIX 2" THICK	SQ YD	372
<u>2350. 609</u>	TYPE MV 4 WEARING COURSE MIXTURE	TON	4980
2350, 609	TYPE LV 3 NON WEARING COURSE MIXTURE	TON	7500
<u> 2357, 502</u>	BITUMINOUS MATERIAL FOR TACK COAT	GALLON	3124
2501. 511	CS PIPE CULVERT	LIN FT	30
2501, 567	CS SAFETY APRON & GRATE DESIGN 3128	EACH	2
2540, 602	INSTALL MAIL BOX SUPPORT	EACH	43
<u>2563, 501</u>	TRAFFIC CONTROL	LS	1
<u>@ 2564, 602</u>	INSTALL SIGN TYPE SPECIAL	EACH	. 1
<u> 2575. 501</u>	SEEDING	ACRE	4. 7
<u> 2575. 502</u>	SEED MIXTURE 80A	POUND	212
2575. 511	MULCH MATERIAL TYPE 1	TON	0.8
2575. 512	MULCH MATERIAL TYPE 2	GALLON	1043
2575, 519	DISC ANCHORING	ACRE	0. 4
<u>2575, 523</u>	EROSION CONTROL BLANKETS CATEGORY 2	SQ YD	55
- 2575. 532	COMMERCIAL FERTILIZER ANALYSIS 10-10-10	POUND	2350
2580. 501	TEMPORARY LANE MARKING	LIN FT	3035

- ① SALVAGE TO ANOKA COUNTY SIGN DEPARTMENT.
 ② MUNICIPAL STREET SIGNS.
 ③ 364 TONS FOR RESTORATION OF AGGREGATE ENTRANCES.
 ④ FOR TOPSOIL STRIPPING & SUBGRADE PREP., (EXCLUDING TR.LN. CONSTR. AREAS)
 ⑤ FOR DUST CONTROL AS DIRECTED BY THE ENGINEER.
 ⑥ FOR BUTT JOINT MILLING.

CERTIFIED BY	Mark	REG. NO. <i>250</i> 66	_ DATE <u>4-5-99</u>
COUNTY PROJECT	99-10-24		SHEET 2 OF 10 SHEETS

BASIS OF PLANNED QUANTITIES

2211 AGGREGATE BASE CLASS 5:

2120 EARTH SHOULDERING:

2350 TYPE MV 4 WEARING COURSE MIX: 110 LBS./SQ.YD. PER 1" THICKNESS 2350 TYPE LV 3 NON WEARING COURSE MIX: 120 LBS./SQ.YD. PER 1" THICKNESS. BITUMINOUS MATERIAL FOR TACK COAT: 0.05 GAL./SQ.YD. PER LIFT APPLIED.

2575 SEEDING: BASED ON HORIZONTAL MEASUREMENT +10%.

2575 SEED MIXTURE 80A: 45 LBS./ACRE.
2575 MULCH MATERIAL TYPE 1: 2 TON/ACRE.
2575 MULCH MATERIAL TYPE 2: 0.18 GAL./SQ.YD.
2575 COMMERCIAL FERTILIZER ANAL. 10-10-10 (OR EQUIVALENT): 500 LBS./ACRE.

C	EARING A	AND GF	RUBBIN	G	
STA-STA	LOC.	CLEARING		GRUE	BBING
		TREE	ACRE	TREE	ACRE
45+71-47+87	34'-60' RT		0.25		0.25
48+31	53' RT	4		1	0.23
49+01	38' RT	2		1	
49+75	55' RT	1		1	
49+75	56' RT	Ó		<u> </u>	
49+86	43' RT	0			
50+22	53' RT				
50+26	57' RT	1		<u> </u>	
50+27	64' RT			1	
	U4 KI	<u> </u>		1	
	1 70 71 6				
	TOTALS	10	0.25	8 .	0.25

	MN/DOT STANDARD PLATES
THESE STANDA	RD PLATES AS APPROVED BY THE FHWA SHALL APPLY.
PLATE NO.	DESCRIPTION
M0004 A	SPECIFICATION REFERENCE TO STANDARD DI ATES
143040 F	CORRUGATED METAL PIPE CUI VERT
M3158 F	SAFETY APRON
	CORRUGATED STEEL PIPE COUPLING BAND
	STANDARD BARRICADES TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)
	TOTALISMMENT AREAS (AT PIPE CULVERT ENDS)

NOTE: CONVERT METRIC STANDARD PLATES TO NEAREST TO 0.0003'

CERTIFIED BY Aldget	REG. NO. 2586 DATE 4-5-99
COUNTY PROJECT 99-10-24	

TYPICAL SECTIONS GRADING PI 17.1' -PROPOSED MAT **EXISTING MAT** -11.5' (TYP) --14' (TYP)— 2.0% (TYP) ----- VARIABLE 3.0" INPLACE BIT, PAV'T.-(COLD RECYLCLE INPLACE BITUMINOUS) ✓ EXISTING GRADE EARTH SHOULDERING, SEED, TYPE 2 MULCH RECLAIMED BITUMINOUS — (FINAL SHAPING TO BE PAID AS MOTOR GRADER HOURS)

1 STRIP INPLACE TOPSOIL PRIOR TO WIDENING, TO BE PAID AS MOTOR GRADER HOURS.

∠ 2" LV 3 NON WEARING COURSE MIXTURE

← 1 1/2" MV 4 WEARING COURSE MIXTURE

DESIGN DESIGNATIONS:

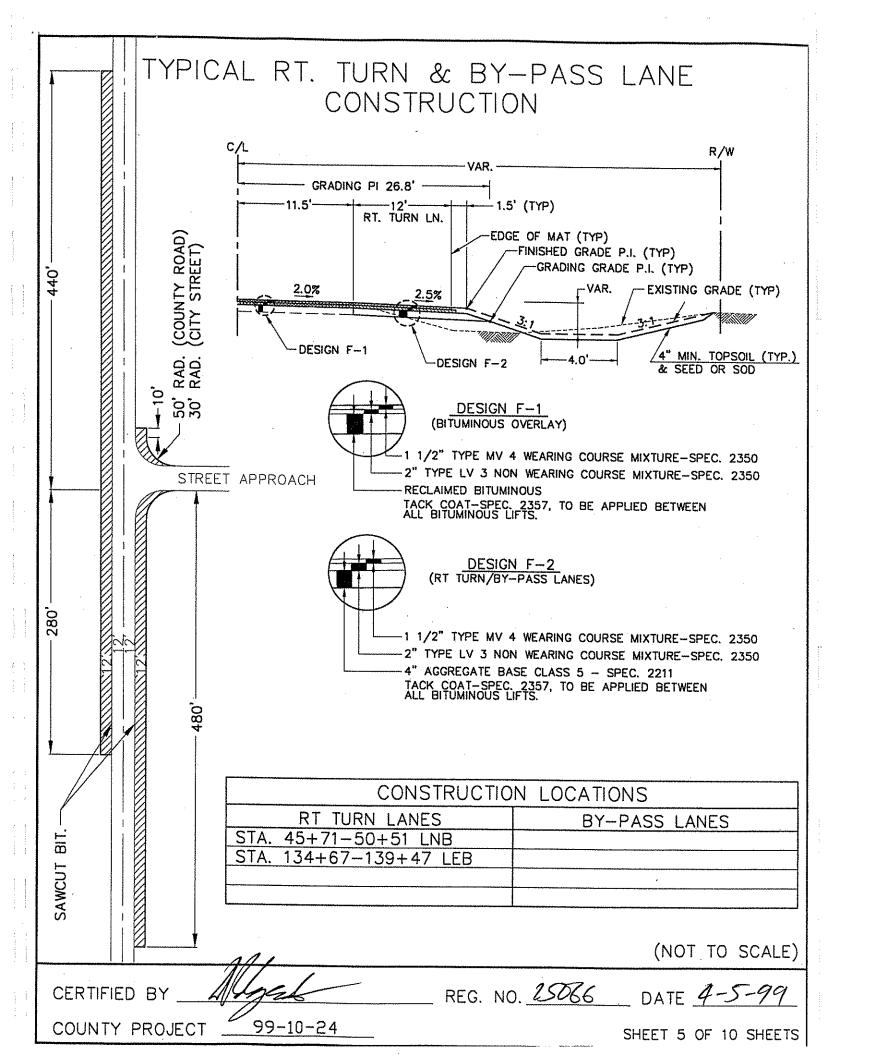
99-10-24

CERTIFIED BY

COUNTY PROJECT

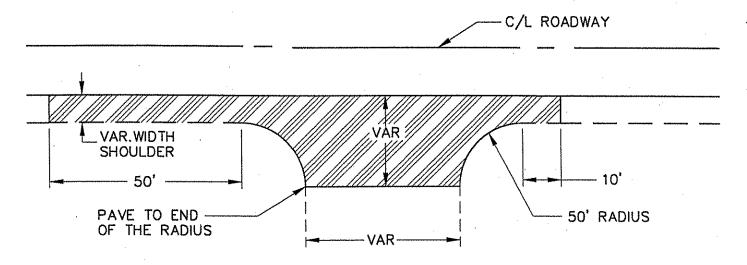
TYPE MV 4 WEARING COURSE MIXTURE: MVWE45035B TYPE LV 3 NON WEARING COURSE MIXTURE: LVNW35030B

> (NOT TO SCALE) REG. NO. <u>25066</u> DATE <u>4-5-99</u> SHEET 4 OF 10 SHEETS



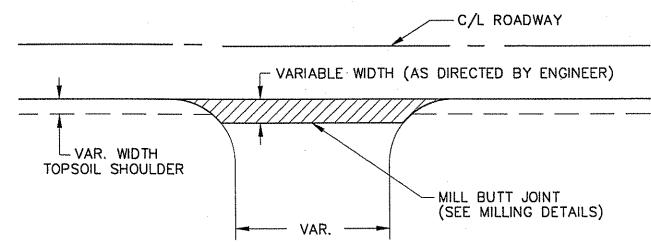
TYPICAL STREET APPROACHES

UNPAVED STREET APPROACHES



NOTE: PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 2" THICK)

PAVED STREET APPROACHES



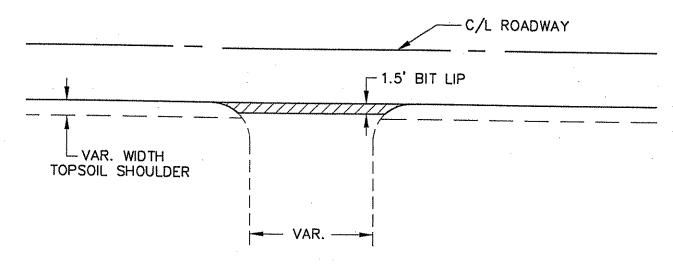
NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)/ OR KICKOUT PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 1 1/2" THICK)

(NOT TO SCALE)

CERTIFIED BY	Mych	REG. NO. <u>25</u>	al DATE	4-5-9
COUNTY PROJECT	<u>/9</u> 9-10-24		SHEET 6 (OF 10 SHEE

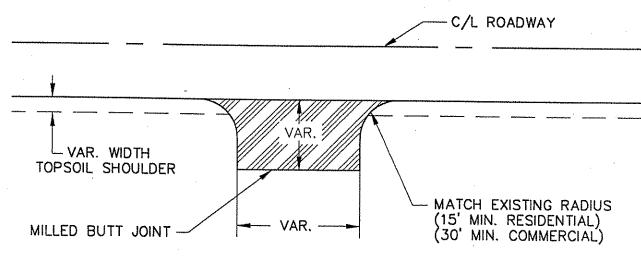
TYPICAL ENTRANCES

UNPAVED DRIVEWAY AND FIELD ENTRANCES



NOTE: KICKOUT PAID FOR AS ITEM NO. 2350.609 (TYPE MV 4 WEARING COURSE MIXTURE)

PAVED ENTRANCES



NOTE: PAID FOR AS ITEM NO. 2350.604 (TYPE MV 4 WEAR COURSE 1 1/2" THICK)

69-10-24

CERTIFIED BY

COUNTY PROJECT

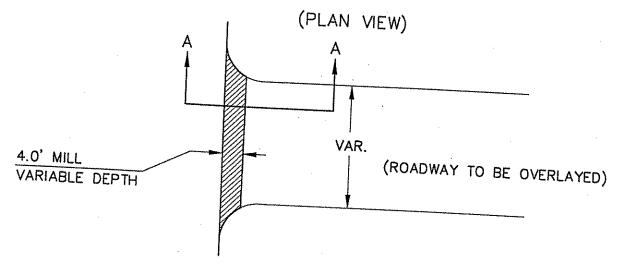
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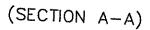
REG. NO. 25066 DATE 4-5-99

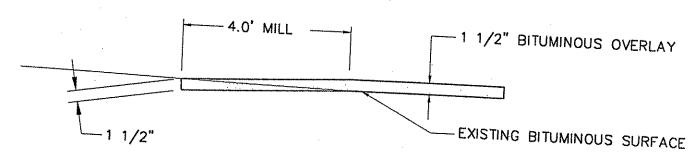
SHEET 7 OF 10 SHEETS

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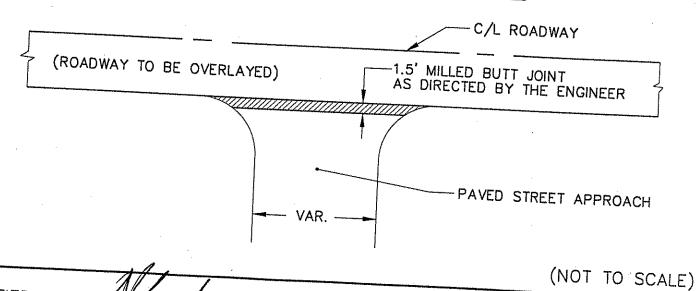
MILLING DETAILS BUTT JOINTS







PAVED STREET APPR. & ENTRANCES



REG. NO. 25066

DATE 4-5-99

SHEET 8 OF 10 SHEETS

CERTIFIED BY

COUNTY PROJECT

<u>/99-10-24</u>

135+00 136+00 137+00 138+00 139+47 C.S.A.H. 24

C.S.A.H. 24

CONSTRUCTION LIMITS SOR C.S.A.H. 24

Fed. Project No.

- CONSTRUCTION LIMITS STA. 48+09 RT. INPL. 15"x 24" CMP, REMOVE F&! 15"x 30" CS PIPE CULVERT F&! 2-15" CS SAFETY APRONS & GRATES

WIDENING FOR TURN/BY-PASS LANES

PLAN VIEW

P. _____ S. A. P. ____ C. P. <u>99-10-24</u> Sheet No. 9 of 10 Sheets

