

MINNESOTA DEPARTMENT OF TRANSPORTATION

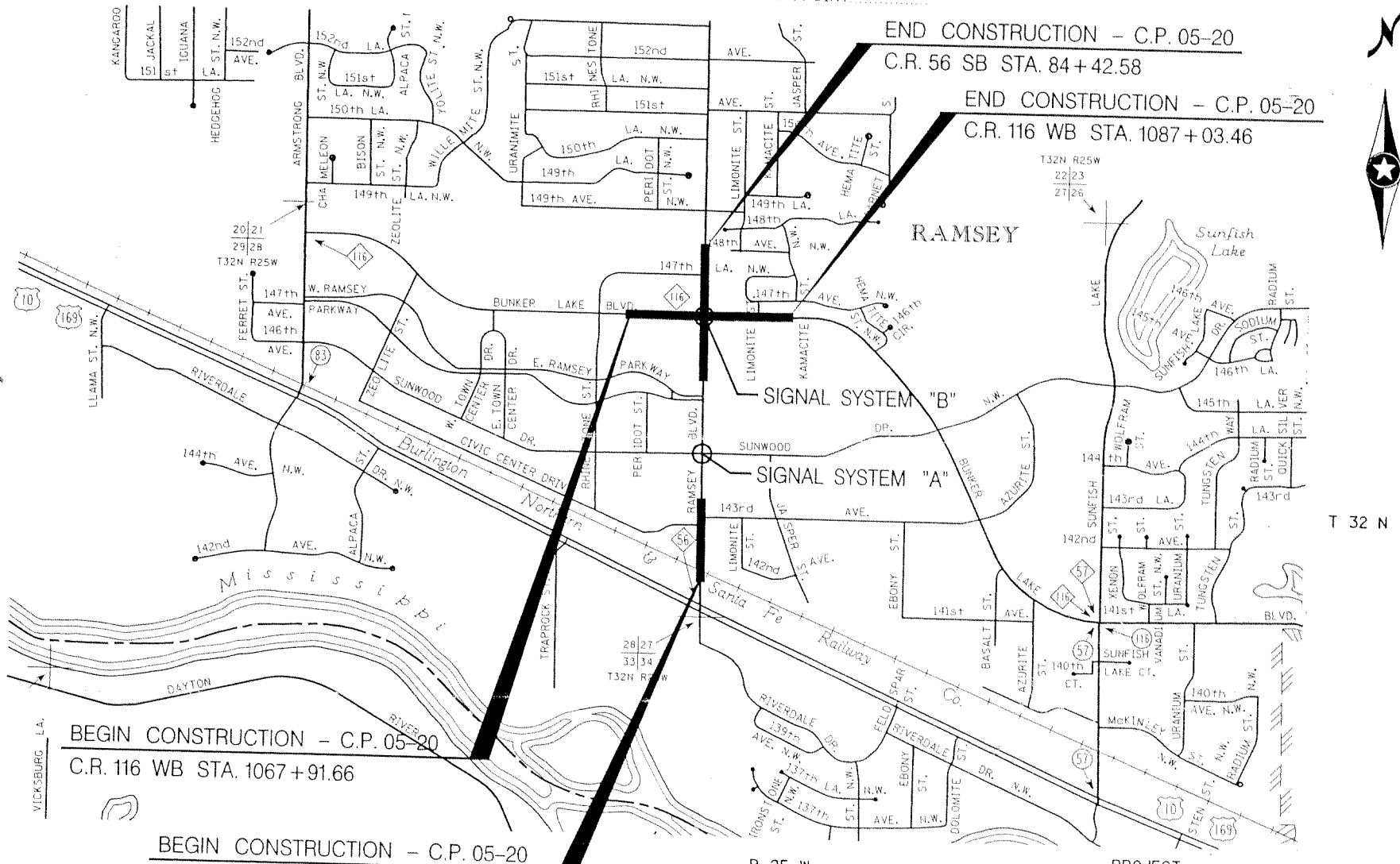
CITY OF RAMSEY

CONSTRUCTION PLAN FOR: GRADING, AGGREGATE BASE, BITUMINOUS PAVING, STORM SEWER, CONCRETE CURB & GUTTER AND WALK, BITUMINOUS PATH, SIGNING & STRIPING, TRAFFIC CONTROL SIGNALS, AND APPURTENANT WORK
 LOCATED ON COUNTY ROAD 56 FROM A POINT 370 FEET NORTH OF TH 10 TO A POINT 920 FEET NORTH OF COUNTY ROAD 116 ALSO
 LOCATED ON COUNTY ROAD 116 FROM A POINT 1000 FEET WEST OF COUNTY ROAD 56 TO A POINT 1000 FEET EAST OF COUNTY ROAD 56

CR 56 DESIGN
 GROSS LENGTH 4302.58 FEET 0.815 MILES
 BRIDGES-LENGTH 0 FEET 0 MILES
 EXCEPTIONS-LENGTH FEET MILES
 NET LENGTH 4302.58 FEET 0.815 MILES
 REF. POINT - TO REF. POINT -

CR 116 DESIGN
 GROSS LENGTH 2111.46 FEET 0.400 MILES
 BRIDGES-LENGTH 0 FEET 0 MILES
 EXCEPTIONS-LENGTH FEET MILES
 NET LENGTH 2111.46 FEET 0.400 MILES
 REF. POINT - TO REF. POINT -

NOTE: LENGTHS AND DESCRIPTIONS BASED ON THE CR 56 S.B. ALIGNMENT AND THE CR 116 W.B. ALIGNMENT.



MINN PROJECT NO. **CP 04-15-56**

GOVERNING SPECIFICATIONS
 THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN.

ALL TRAFFIC CONTROL DEVICES AND SIGNING SHALL CONFORM TO THE MN MUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, DATED JANUARY 2004

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	GENERAL LAYOUT
3-4	ESTIMATED QUANTITIES
5	INDEX OF TABULATIONS AND STANDARD PLATES
6-8	QUANTITY TABULATIONS
9	EARTHWORK TABULATIONS AND SUMMARY
10-12	TYPICAL SECTIONS
13-15	MISCELLANEOUS DETAILS
16	DETOUR PLAN
18	ALIGNMENT PLAN AND TABULATIONS
19-24	INPLACE TOPOGRAPHY AND REMOVAL PLANS
25-30	CONSTRUCTION PLANS
31-35	PROFILES
36-38	INTERSECTION DETAILS
39	MODULAR BLOCK WALL DETAILS
40-45	STORM SEWER PLANS AND PROFILES
46	STORM SEWER TABULATIONS
47-49	EROSION CONTROL AND TURF ESTABLISHMENT PLANS
50-54	EROSION CONTROL DETAILS
55-65	SIGNAL PLANS
66	SIGNING AND STRIPING TABULATION AND SIGNING DETAIL
67-72	SIGNING AND STRIPING PLANS
X1-X22	CROSS SECTIONS

SHEET 17 WAS OMITTED FROM THIS PLAN SET
 THIS PLAN CONTAINS 93 SHEETS

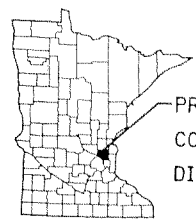
ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS AND ORDINANCES WILL BE COMPLIED WITH IN THE CONSTRUCTION OF THIS PROJECT.

TKDA
 ENGINEERS-ARCHITECTS-PLANNERS

SIGNATURE: *Joseph M. Weaver* NAME: JOSEPH M. WEAVER
 DESIGN ENGINEER, 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.
 DATE: 3/01/06 LICENSE NUMBER 22405

APPROVED: CITY OF RAMSEY ENGINEER _____ DATE: _____
 APPROVED: ANOKA COUNTY ENGINEER _____ DATE: _____
 APPROVED: _____ DATE: _____
 APPROVED: _____ DATE: _____

STATE AID APPROVALS:
 METRO DISTRICT STATE AID ENGINEER: REVIEWED FOR COMPLIANCE WITH STATE AND FEDERAL AID RULES / POLICY
 APPROVED FOR STATE AND FEDERAL AID FUNDING: STATE AID ENGINEER _____ DATE: _____



PROJECT LOCATION
 COUNTY: ANOKA
 DISTRICT: METRO

PLAN REVISIONS		
DATE	SHEET NO.	APPROVED BY

CITY OF RAMSEY PROJ. NO. 05-20
 ANOKA COUNTY PROJ. NO. 04-15-56

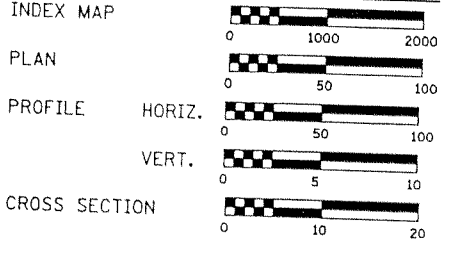
PLAN SYMBOLS

- STATE LINE
- COUNTY LINE
- TOWNSHIP OR RANGE LINE
- SECTION LINE
- QUARTER LINE
- SIXTEENTH LINE
- RIGHT-OF-WAY LINE
- SLOPE EASEMENT
- PRESENT RIGHT-OF-WAY
- CONTROL OF ACCESS LINE
- PROPERTY LINES (EXCEPT LAND LINES)
- VACATED PLATTED PROPERTY
- CORPORATE OR CITY LIMITS
- TRUNK HIGHWAY CENTER LINE
- RETAINING WALL
- RAILROAD
- RAILROAD RIGHT-OF-WAY
- RIVER OR CREEK
- DRY RUN
- DRAINAGE DITCH
- DRAIN TILE
- CULVERT
- DROP INLET
- GUARD RAIL
- BARBED WIRE FENCE
- WOVEN WIRE FENCE
- CHAIN LINK FENCE
- RAILROAD SNOW FENCE
- STONE WALL OR FENCE
- HEDGE
- RAILROAD CROSSING SIGN
- RAILROAD CROSSING BELL
- ELECTRIC WARNING SIGN
- CROSSING GATE
- MEANDER CORNER
- SPRINGS
- MARSH
- TIMBER
- ORCHARD
- BRUSH
- NURSERY
- CATCH BASIN
- FIRE HYDRANT
- CATTLE GUARD
- OVERPASS (HIGHWAY OVER)
- UNDERPASS (HIGHWAY UNDER)
- BRIDGE
- BUILDING (ONE STORY FRAME)
- F - FRAME
- C - CONCRETE
- S - STONE
- T - TILE
- B - BRICK
- ST - STUCCO
- IRON ROD OR PIPE
- MONUMENT (STONE, CONCRETE, OR METAL)
- WOODEN HUB
- GRAVEL PIT
- SAND PIT
- BORROW PIT
- ROCK QUARRY

UTILITY SYMBOLS

- POWER POLE LINE
- TELEPHONE OR TELEGRAPH POLE LINE
- JOINT TELEPHONE AND POWER ON POWER POLE
- ON TELEPHONE POLES
- ANCHOR
- STREET LIGHT
- PEDESTAL (TELEPHONE CABLE TERMINAL)
- GAS MAIN
- WATER MAIN
- CONDUIT
- TELEPHONE CABLE IN CONDUIT
- ELECTRIC CABLE IN CONDUIT
- TELEPHONE MANHOLE
- ELECTRIC MANHOLE
- BURIED TELEPHONE CABLE
- BURIED ELECTRIC CABLE
- AERIAL TELEPHONE CABLE
- SEWER (STORM)
- SEWER (SANITARY)
- SEWER MANHOLE

SCALES



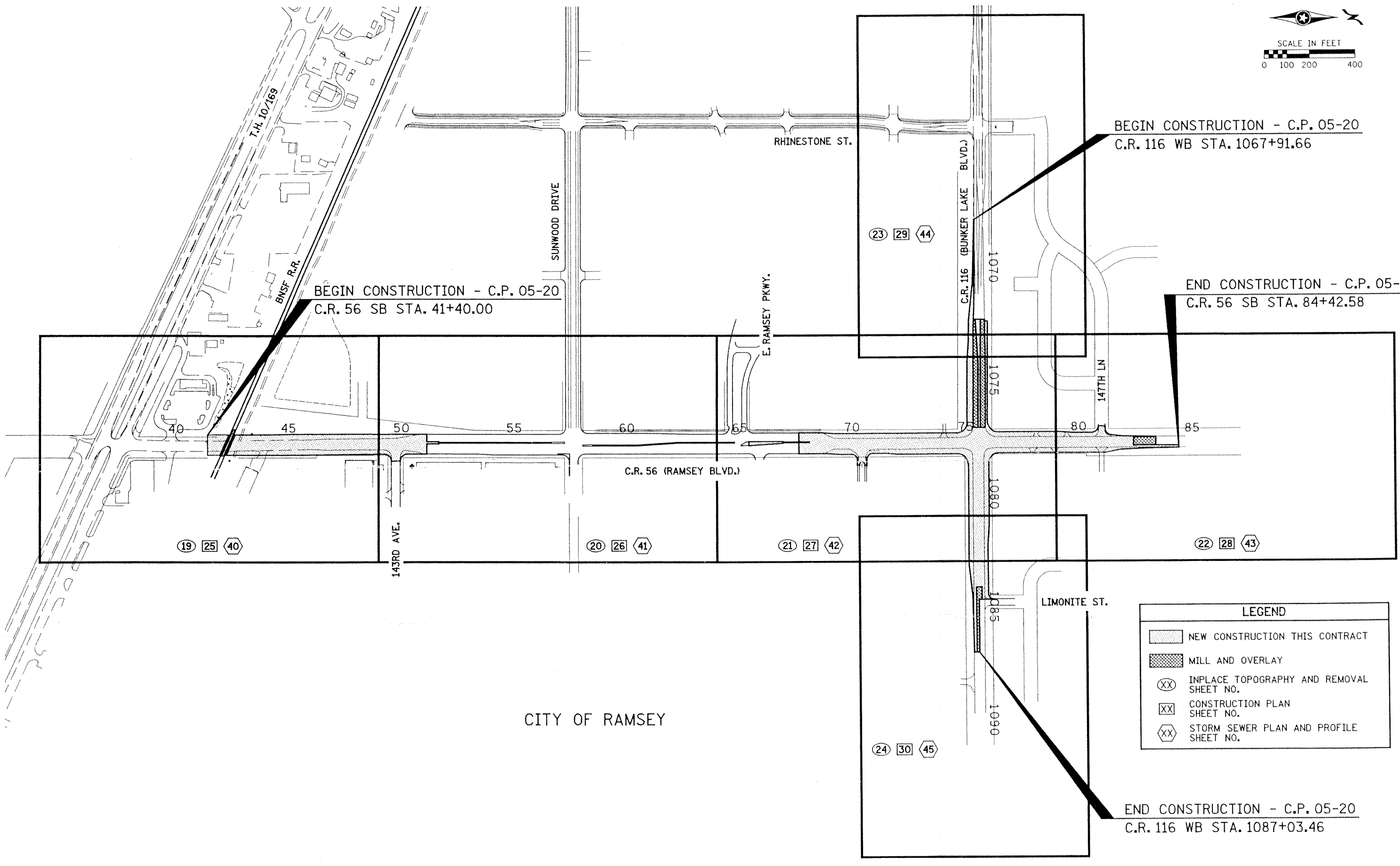
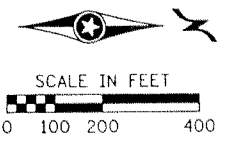
CR 56 DESIGN DESIGNATION

R VALUE	75
ADT (2004)	15,210
Proj. ADT (2005)	15,522
Proj. HCADT (2025)	23,282
Soil Factor	10
Design	10 TON DESIGN
Shoulder Width	10'
Functional Classification	MINOR ARTERIAL
No. of Traffic Lanes	4
No. of Parking Lanes	0
Design Speed	55 MPH
Based on Stopping Sight Distance	
Height of eye	3.5'
Height of object	0.5'
Design Speed not achieved at:	
STA.	TO STA.
	MPH

CR 116 DESIGN DESIGNATION

R VALUE	75
ADT (2004)	15,210
Proj. ADT (2005)	15,522
Proj. HCADT (2025)	23,282
Soil Factor	10
Design	10 TON DESIGN
Shoulder Width	10'
Functional Classification	MINOR ARTERIAL
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Design Speed not achieved at:	
STA.	TO STA.
	MPH

DATE: 3/2/2006 TIME: 3:33:31 PM FILENAME: K:\r-z-Ramsey-City\1312_000\hwy-brdg\hwy-brdg-sth\cr 56_tsh.dgn



BEGIN CONSTRUCTION - C.P. 05-20
C.R. 56 SB STA. 41+40.00

BEGIN CONSTRUCTION - C.P. 05-20
C.R. 116 WB STA. 1067+91.66

END CONSTRUCTION - C.P. 05-20
C.R. 56 SB STA. 84+42.58

LEGEND	
	NEW CONSTRUCTION THIS CONTRACT
	MILL AND OVERLAY
	INPLACE TOPOGRAPHY AND REMOVAL SHEET NO.
	CONSTRUCTION PLAN SHEET NO.
	STORM SEWER PLAN AND PROFILE SHEET NO.

END CONSTRUCTION - C.P. 05-20
C.R. 116 WB STA. 1087+03.46

CITY OF RAMSEY

DATE: 3/2/2006 TIME: 3:23:10 PM FILENAME: K:\r-z\Ramsey-City\13132_000\hwy-brdg\hwy\plan-sht\cr56_gll.dgn

DRAWN BY: TJV
CHECKED BY: JMW

CERTIFIED BY LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS • ARCHITECTS • PLANNERS SAINT PAUL, MINNESOTA

GENERAL LAYOUT
CITY OF RAMSEY, MINNESOTA

C.P. 05-20
Sheet No. 2 of 94 Sheets

DATE: 3/21/2006 TIME: 10:08:27 AM
 FILENAME: K:\r-z-Ramsey-City\1312_000\wy-br\q\wy\pfr-stfr-cr56_1ba.dgn

ESTIMATED QUANTITIES

TAB. LETTER	SHEET NUMBER	ITEM NUMBER	ITEM	NOTE NO.	UNIT	TOTAL ESTIMATED QUANTITY	CITY OF RAMSEY C.R. 56	CITY OF RAMSEY C.R. 116
		2021.501	MOBILIZATION		LUMP SUM	1	1	
		2021.610	RAILROAD PROTECTIVE SERVICES		HOUR	40	40	
		2031.501	FIELD OFFICE TYPE D		EACH	1	1	
A	6	2101.501	CLEARING	(1)	ACRE	0.75	0.20	0.55
A	6	2101.502	CLEARING	(1)	TREE	3	3	
A	6	2101.506	GRUBBING	(1)	ACRE	0.75	0.20	0.55
A	6	2101.507	GRUBBING	(1)	TREE	3	3	
C	6	2104.501	REMOVE PIPE CULVERTS	(2) (3)	LIN FT	309	159	150
C	6	2104.501	REMOVE SEWER PIPE (STORM)	(2) (3)	LIN FT	131	103	28
B	6	2104.501	REMOVE CURB AND GUTTER	(3)	LIN FT	649	625	24
B	6	2104.501	REMOVE FENCE	(3)	LIN FT	355	191	164
B	6	2104.505	REMOVE CONCRETE WALK	(3)	SQ YD	17	17	
B	6	2104.505	REMOVE BITUMINOUS PAVEMENT	(3)	SQ YD	20205	16027	4178
B	6	2104.509	REMOVE CONCRETE NOSE	(3)	EACH	3	3	
C	6	2104.509	REMOVE DRAINAGE STRUCTURE	(3)	EACH	3	2	1
B	6	2104.513	SAWING BIT PAVEMENT (FULL DEPTH)		LIN FT	4336	1298	3038
C	6	2104.523	SALVAGE CASTING		EACH	3	3	
		2104.523	SALVAGE HYDRANT		EACH	2	2	
G	6	2104.523	SALVAGE SIGN PANEL TYPE C		EACH	2	2	
L	14	2104.523	SALVAGE MAILBOX	(4)	EACH	2	2	
C	6	2104.603	ABANDON PIPE SEWER		LIN FT	94		94
		2105.501	COMMON EXCAVATION	(P) (5)	CU YD	22100	16805	5295
		2105.522	GRANULAR BORROW (LV)		CU YD	2719	1530	1189
		2105.523	COMMON BORROW (LV)		CU YD	6530		6530
D	7	2211.503	AGGREGATE BASE (CV) CLASS 5	(P) (6)	CU YD	6117	4531	1586
B	6	2232.501	MILL BITUMINOUS SURFACE (1.5")	(7)	SQ YD	3528	828	2700
D	7	2360.501	TYPE SP 12.5 WEARING COURSE MIX (3,H)	(8)	TON	12213	9077	3136
D	7	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	(9)	GALLON	2945	2199	746

NOTES:

- (1) LIMITS OF CLEARING AND GRUBBING SHALL BE STAKED IN THE FIELD.
- (2) REMOVAL INCLUDES ALL TYPES OF PIPES AND APRONS.
- (3) ALL REMOVAL ITEMS, INCLUDING CONCRETE AND BITUMINOUS MATERIAL, SHALL BE DISPOSED OF OFF-SITE. NO DISPOSAL SHALL BE ALLOWED WITHIN ROADWAY RIGHT-OF-WAY OR EASEMENTS.
- (4) REMOVAL AND DISPOSAL OF SUPPORT POST IS INCIDENTAL.
- (5) INCLUDES INPLACE TOPSOIL.
- (6) AGGREGATE BASE COMPUTED AT 2 TONS / CU YD.
- (7) MILLED BITUMINOUS SURFACE MAY BE RECYCLED. EXCESS MATERIAL SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE DISPOSED OF OUTSIDE THE RIGHT-OF-WAY.
- (8) SPEC. 2360 BITUMINOUS MIXTURES COMPUTED AT 113 POUNDS / SQ YD / INCH.
- (9) BITUMINOUS MATERIAL FOR TACK COAT COMPUTED AT 0.05 GALLONS / SQ YD.
- (P) DENOTES PLAN QUANTITY.

ESTIMATED QUANTITIES

TAB. LETTER	SHEET NUMBER	ITEM NUMBER	ITEM	NOTE NO.	UNIT	TOTAL ESTIMATED QUANTITY	CITY OF RAMSEY C.R. 56	CITY OF RAMSEY C.R. 116
M	46	2501.511	18" RC PIPE CULVERT		LIN FT	162		162
M	46	2501.515	15" RC PIPE APRON		EACH	1	1	
M	46	2501.515	18" RC PIPE APRON		EACH	3		3
M	46	2501.515	27" RC PIPE APRON		EACH	1	1	
M	46	2503.541	15" RC PIPE SEWER DES 3006		LIN FT	1486	944	542
M	46	2503.541	18" RC PIPE SEWER DES 3006		LIN FT	1089	783	306
M	46	2503.541	21" RC PIPE SEWER DES 3006		LIN FT	308	255	53
M	46	2503.541	24" RC PIPE SEWER DES 3006		LIN FT	8		8
M	46	2503.541	27" RC PIPE SEWER DES 3006		LIN FT	147	147	
M	46	2503.541	28" SPAN RC PIPE-ARCH SEWER		LIN FT	196	196	
M	46	2503.602	CONNECT TO EXISTING STORM SEWER		EACH	3	3	
M	46	2503.602	CONNECT TO EXISTING DRAINAGE STRUCTURE		EACH	1	1	
M	46	2503.511	24" STEEL CASING PIPE		LIN FT	237	237	
M	46	2503.511	24" STEEL CASING PIPE JACKED)		LIN FT	125	125	
		2504.602	INSTALL HYDRANT		EACH	2	2	
		2504.602	6" PIPE BEND 45 DEGREE		EACH	2	2	
		2504.602	6" GATE VALVE AND BOX		EACH	1	1	
		2504.603	HYDRANT RISER		LIN FT	1	1	
		2504.603	6" WATERMAIN DUCTILE IRON CL 53		LIN FT	10	10	
M	46	2506.501	CONST DRAINAGE STRUCTURE DESIGN F		LIN FT	25.6	25.6	
M	46	2506.501	CONST DRAINAGE STRUCTURE DESIGN G		LIN FT	35.9	22.2	13.7
M	46	2506.501	CONST DRAINAGE STRUCTURE DESIGN H		LIN FT	40.6	31.3	9.3
M	46	2506.501	CONST DRAINAGE STRUCTURE DES 54-4020		LIN FT	12.3	12.3	
M	46	2506.501	CONST DRAINAGE STRUCTURE DES 60-4020		LIN FT	7.6	7.6	
M	46	2506.501	CONST DRAINAGE STRUCTURE DES 72-4020		LIN FT	4.7		4.7
M	46	2506.516	CASTING ASSEMBLY		EACH	31	23	8
		2506.521	INSTALL CASTING		EACH	3	3	
M	46	2511.501	RANDOM RIPRAP CLASS III	(1)	CU YD	14.6	8.7	5.9

NOTES:

- (1) PLACE GEOTEXTILE FABRIC TYPE IV (INCIDENTAL).

DRAWN BY: RPM

CHECKED BY: JMW

CERTIFIED BY

Joseph Weaver
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-20-06

TKDA

TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

ESTIMATED QUANTITIES

C.P. 05-20

Sheet No. 3 of 94 Sheets

ESTIMATED QUANTITIES

TAB. LETTER	SHEET NUMBER	ITEM NUMBER	ITEM	NOTE NO.	UNIT	TOTAL ESTIMATED QUANTITY	CITY OF RAMSEY C.R. 56	CITY OF RAMSEY C.R. 116
D	7	2521.501	3" CONCRETE WALK		SQ FT	18535	12903	5632
D	7	2521.501	4" CONCRETE WALK		SQ FT	12646	12646	
D	7	2521.501	6" CONCRETE WALK	(1)	SQ FT	1054	886	168
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN B424		LIN FT	7745	5676	2069
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN B424 (MOD)	(2)	LIN FT	5402	3403	1999
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN B612		LIN FT	50	50	
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN B618		LIN FT	10	10	
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN B624		LIN FT	320	320	
D	7	2531.501	CONCRETE CURB & GUTTER DESIGN D424		LIN FT	167	68	99
D	7	2531.618	TRUNCATED DOMES		SQ FT	138	138	
L	14	2540.602	MAIL BOX SUPPORT	(3)	EACH	2		2
M	46	2554.509	GUIDE POST TYPE B		EACH	5	2	3
		2563.601	TRAFFIC CONTROL	(4)	LUMP SUM	1	1	
M	46	2564.531	SIGN PANELS TYPE C		SQ FT	482.03	308.85	173.18
M	46	2564.537	INSTALL SIGN TYPE C		EACH	2	2	
M	46	2564.550	DELINEATOR TYPE CYLINDER STYLE		EACH	5	4	1
M	46	2564.552	HAZARD MARKER X4-2		EACH	9	5	4
M	46	2564.554	SNOW PLOW MARKER X4-5		EACH	4	1	3
E	7	2564.602	PAVEMENT MESSAGE (LT ARROW) EPOXY		EACH	13	9	4
E	7	2564.602	PAVEMENT MESSAGE (RT ARROW) EPOXY		EACH	8	4	4
E	7	2564.602	PAVEMENT MESSAGE (ONLY) EPOXY		EACH	4	4	
E	7	2564.602	PAVEMENT MESSAGE (RR CROSSING) EPOXY		EACH	5	5	
E	7	2564.603	4" SOLID LINE WHITE-EPOXY		LIN FT	14952	10143	4809
E	7	2564.603	4" BROKEN LINE WHITE-EPOXY		LIN FT	967	740	227
E	7	2564.603	8" DOTTED LINE WHITE-EPOXY		LIN FT	75	75	
E	7	2564.603	24" SOLID LINE WHITE-EPOXY		LIN FT	511	403	108
E	7	2564.603	4" SOLID LINE YELLOW-EPOXY		LIN FT	7963	5865	2098
E	7	2564.603	4" BROKEN LINE YELLOW-EPOXY		LIN FT	100	100	
E	7	2564.603	4" DOUBLE SOLID LINE YELLOW-EPOXY		LIN FT	2587	700	1887
E	7	2564.603	24" SOLID LINE YELLOW-EPOXY		LIN FT	632	128	504
E	7	2564.618	ZEBRA CROSSWALK WHITE-EPOXY		SQ FT	798	798	

- NOTES:
 (1) USED FOR CONCRETE MEDIAN NOSE, PED. RAMPS, DRIVEWAY APRONS, AND EMERGENCY CROSSOVER.
 (2) MODIFICATION REFERS TO GUTTER SLOPE MATCHING PAVEMENT SLOPE.
 (3) THE CONTRACTOR SHALL INSTALL SALVAGED MAIL BOXES ON MAIL BOX SUPPORT, WHICH SHALL BE INCIDENTAL TO MAIL BOX SUPPORT.
 (4) ALL TRAFFIC CONTROL AND SIGNING SHALL CONFORM TO THE MMUTCD INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS, DATED JANUARY 2004.

ESTIMATED QUANTITIES

TAB. LETTER	SHEET NUMBER	ITEM NUMBER	ITEM	NOTE NO.	UNIT	TOTAL ESTIMATED QUANTITY	CITY OF RAMSEY C.R. 56	CITY OF RAMSEY C.R. 116
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM A	(1)	SIG SYS	1	1	
		2565.511	FULL T ACT T CONTROL SIGNAL SYSTEM B	(2)	SIG SYS	1	1	
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS A	(1)	LUMP SUM	1	1	
		2565.601	EMERGENCY VEHICLE PREEMPTION SYS B	(2)	LUMP SUM	1	1	
		2565.601	TRAFFIC CONTROL INTERCONNECTION		LUMP SUM	1	1	
H	8	2573.502	SILT FENCE, TYPE MACHINE SLICED	(3)	LIN FT	7202	4257	2945
H	8	2573.510	RISER STANDPIPE		EACH	3	1	2
		2573.520	SEDIMENT REMOVAL BACKHOE		HOUR	17	9	8
H	8	2573.602	INLET PROTECTION	(4)	EACH	32	24	8
H	8	2575.501	SEEDING		ACRE	2.2	1.1	1.1
H	8	2575.505	SODDING TYPE SALT RESISTANT		SQ YD	4938	3309	1629
H	8	2575.511	MULCH MATERIAL TYPE 1		TON	4.5	2.2	2.3
H	8	2575.519	DISK ANCHORING		ACRE	2.0	1.0	1.0
H	8	2575.532	COMMERCIAL FERT ANALYSIS 25-5-10	(5)	POUND	1247	680	567
H	8	2575.608	SEED MIXTURE 260	(6)	POUND	223	110	113

- NOTES:
 (1) SIGNAL SYSTEM AT CR 56 (RAMSEY BLVD.) / SUNWOOD DRIVE.
 (2) SIGNAL SYSTEM AT CR 56 (RAMSEY BLVD.) / CR 116 (BUNKER LAKE BLVD.)
 (3) INCLUDES REMOVING SEDIMENT BUILD-UP AND REPAIRING, REPLACING, OR SUPPLEMENTING WHEN NON-FUNCTIONAL.
 (4) SEE SHEET 51 AND 52 FOR DETAILS.
 (5) APPLIED AT A RATE OF 400 POUND/ACRE FOR SEED MIX 260.
 APPLIED AT A RATE OF 350 POUND/ACRE FOR SODDING.
 (6) APPLIED AT A RATE OF 100 POUNDS/ACRE.

DATE: 3/2/2006 TIME: 3:32:41 PM
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DRAWN BY: RPM
 CHECKED BY: JMW

CERTIFIED BY *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVAL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

ESTIMATED QUANTITIES

C.P. 05-20

Sheet No. 4 of 94 Sheets

DATE: 3/2/2006 TIME: 3:32:42 PM
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THE FOLLOWING STANDARD PLATES, APPROVED BY THE FEDERAL HIGHWAY ADMINISTRATION, SHALL APPLY ON THIS PROJECT.

INDEX OF TABULATIONS		
TAB. LETTER	SHEET NO.	DESCRIPTION
A	6	CLEARING AND GRUBBING
B	6	SAWCUTS AND MISC. REMOVALS
C	6	DRAINAGE REMOVALS
D	7	BITUMINOUS, CONCRETE AND AGGREGATE ITEMS
E	7	PAVEMENT MARKINGS
F	53	SIGN PANELS TYPE C
G	53	SALVAGE SIGN PANELS TYPE C
H	8	EROSION CONTROL AND TURF ESTABLISHMENT
J	9	EARTHWORK SUMMARY
L	14	MAILBOXES
M	46	STORM SEWER

STANDARD PLATES	
TAB. LETTER	DESCRIPTION
3000L	REINFORCED CONCRETE PIPE
3006G	GASKET JOINT FOR R.C. PIPE
3007D	SHEAR REINFORCEMENT FOR PRECAST DRAINAGE STRUCTURES
3014J	REINFORCED CONCRETE PIPE ARCH
3040F	CORRUGATED METAL PIPE CULVERT
3100G	CONCRETE APRON FOR REINFORCED CONCRETE PIPE
3133C	RIPRAP AT RCP OUTLETS
3145F	CONCRETE PIPE TIES
4005L	MANHOLE OR CATCH BASIN TYPE A & B CONE SECTIONS PRECAST - DESIGN F
4006L	MANHOLE OR CATCH BASIN PRECAST - DESIGNS G AND H
4010H	CONCRETE SHORT CONE & ADJUSTING RING (SECTIONAL CONCRETE)
4011E	PRECAST CONCRETE BASE
4020J	MANHOLE OR CATCH BASIN COVER
4026A	CONCRETE ENCASED CONCRETE ADJUSTING RINGS
4101D	RING CASTING FOR MANHOLE OR CATCH BASIN
4110F	COVER CASTING FOR MANHOLE
4125D	CATCH BASIN FRAME CASTING
4134A	CURB BOX CASTING FOR CATCH BASIN
4154B	CATCH BASIN GRATE CASTING (GRATE CASTING NO. 816)
4180J	MANHOLE OR CATCH BASIN STEP
7036F	PEDESTRIAN CURB RAMP
7100H	CONCRETE CURB AND GUTTER
7102I	CONCRETE CURB AND GUTTER
7109C	MADIAN NOSE AND ISLAND
7111J	INSTALLATION OF CATCH BASIN CASTINGS (CONCRETE CURB AND GUTTER)
7113A	CONCRETE APPROACH NOSE DETAIL
8000I	STANDARD BARRICADES
8110D	TRAFFIC SIGNAL BRACKETING
8114A	P.V.C. HANDHOLE/PULLBOX
8115D	PEDESTRIAN PUSH BUTTON INSTALLATION
8121D	TRANSFORMER BASE AND POLE BASE PLATE
8123E	POLE AND MAST ARM
8124E	MAST ARM SIGNAL HEAD MOUNTS
8126G	POLE FOUNDATION (PA90 AND PA100)
8150C	INSTALLATION OF CULVERT MARKERS
9102D	TURF ESTABLISHMENT AREAS (AT PIPE CULVERT ENDS)

DRAWN BY: RPM

CHECKED BY: JMW

CERTIFIED BY

Joseph W. W...
 LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

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CLEARING AND GRUBBING - TAB A				
STATION TO STATION	CLEARING		GRUBBING	
	TREE	ACRE	TREE	ACRE
COUNTY ROAD 56				
STA. 41+40 TO STA. 51+65		0.05		0.05
STA. 51+65 TO STA. 90+90	3	0.15	3	0.15
SUBTOTAL	3	0.20	3	0.20
COUNTY ROAD 116				
STA. 1067+92 TO STA. 1077+10				
STA. 1078+43 TO STA. 1087+03		0.55		0.55
SUBTOTAL		0.55		0.55
PROJECT TOTAL	3	0.75	3	0.75

MISCELLANEOUS REMOVALS - TAB B							
STATION TO STATION	REMOVE BITUMINOUS PAVEMENT	MILL BITUMINOUS SURFACE (1.5")	SAWING BITUMINOUS PAVEMENT (FULL DEPTH)	REMOVE CURB AND GUTTER	REMOVE CONCRETE NOSE	REMOVE CONCRETE WALK	REMOVE FENCE
	SQ YD	SQ YD	LIN FT	LIN FT	EACH	SQ YD	LIN FT
COUNTY ROAD 56							
STA. 41+40 TO STA. 51+65	5739		328	31	1		
STA. 51+65 TO STA. 90+90	10288	828	970	594	2	17	191
SUBTOTAL	16027	828	1298	625	3	17	191
COUNTY ROAD 116							
STA. 1067+92 TO STA. 1077+10	672	2244	2592				
STA. 1078+43 TO STA. 1087+03	3506	456	446	24			164
SUBTOTAL	4178	2700	3038	24			164
PROJECT TOTAL	20205	3528	4336	649	3	17	355

DRAINAGE REMOVALS AND SALVAGES - TAB C						
STATION TO STATION	REMOVE PIPE CULVERTS	REMOVE SEWER PIPE (STORM)	REMOVE DRAINAGE STRUCTURE	SALVAGE PIPE APRON	SALVAGE CASTING	ABANDON PIPE SEWER
	(1) LIN FT	(1) LIN FT	EACH	EACH	EACH	LIN FT
COUNTY ROAD 56						
STA. 41+40 TO STA. 51+65	50	8		1		
STA. 51+65 TO STA. 90+90	109	95	2		3	
SUBTOTAL	159	103	2	1	3	
COUNTY ROAD 116						
STA. 1067+92 TO STA. 1077+10	32	28	1			94
STA. 1078+43 TO STA. 1087+03	118					
SUBTOTAL	150	28	1			94
PROJECT TOTAL	309	131	3	1	3	94

(1) APRON AND TRASH GUARD REMOVALS ARE INCIDENTAL TO PIPE REMOVALS.

DRAWN BY: RPM

CHECKED BY: JMW

CERTIFIED BY

Joseph Weaver
 LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

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QUANTITY TABULATIONS

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BITUMINOUS, CONCRETE AND AGGREGATE ITEMS - TAB D

STATION TO STATION	BITUMINOUS ITEMS		CONCRETE ITEMS										AGGREGATE ITEM
	TYPE SP WEAR (SPWEB340H)	TACK COAT	3" CONC. WALK	4" CONC. WALK	6" CONC. WALK	B424 CURB AND GUTTER	B424 CURB AND GUTTER (MOD)	B612 CURB AND GUTTER	B618 CURB AND GUTTER	B624 CURB AND GUTTER	D424 CURB AND GUTTER	TRUNCATED DOMES	AGGREGATE BASE CLASS 5
	TON (1)	GALLON (2)	SQ FT	SQ FT	SQ FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	LIN FT	SQ FT	CU YD
COUNTY ROAD 56													
STA. 41+40 TO STA. 51+65	3323	807	5811	7967	366	3032	478			320			1740
STA. 51+65 TO STA. 90+90	5754	1392	7092	4679	520	2644	2925	50	10		68	138	2791
SUBTOTAL	9077	2199	12903	12646	886	5676	3403	50	10	320	68	138	4531
COUNTY ROAD 116													
STA. 1067+92 TO STA. 1077+10	933	222	2372		125	946	954						509
STA. 1078+43 TO STA. 1087+03	2203	524	3260		43	1123	1045				99		1077
SUBTOTAL	3136	746	5632		168	2069	1999				99		1586
PROJECT TOTAL	12213	2945	18535	12646	1054	7745	5402	50	10	320	167	138	6117

BASIS OF QUANTITIES:

- (1) SPEC. 2360 BITUMINOUS MIXTURES COMPUTED AT 113 POUNDS / SQ YD / INCH.
- (2) BITUMINOUS MATERIAL FOR TACK COAT COMPUTED AT 0.05 GALLONS / SQ YD.

PAVEMENT MARKING - TAB E

LOCATION	PAVEMENT MESSAGE				4" SOLID WHITE	4" BROKEN WHITE	8" DOTTED WHITE	24" SOLID WHITE	4" SOLID YELLOW	4" BROKEN YELLOW	4" DOUBLE SOLID YELLOW	24" SOLID YELLOW	ZEBRA CROSS WALK
	LEFT ARROW	RIGHT ARROW	ONLY	RR CROSSING									
	EACH	EACH	EACH	EACH	LF	LF	LF	LF	LF	LF	LF	LF	SF
COUNTY ROAD 56													
STA. 41+40 TO STA. 54+00	5		4	5	4416	265	75	132	2422				
STA. 54+00 TO STA. 90+90	4	4			5727	475		271	3443	100	700	128	798
SUBTOTAL	9	4	4	5	10143	740	75	403	5865	100	700	128	798
COUNTY ROAD 116													
STA. 1067+92 TO STA. 1077+10	2	2			2376	114		53	954		884	358	
STA. 1078+43 TO STA. 1087+03	2	2			2433	113		55	1144		1003	146	
SUBTOTAL	4	4			4809	227		108	2098		1887	504	
PROJECT TOTAL	13	8	4	5	14952	967	75	511	7963	100	2587	632	798

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TURF ESTABLISHMENT AND EROSION CONTROL - TAB H									
STATION TO STATION	SILT FENCE TYPE MACHINE SLICED	RISER STANDPIPE	INLET PROT.	SEEDING	SEED MIX 260 (1)	SODDING TYPE SALT RESIST.	MULCH MATERIAL TYPE 1 (2)	DISK ANCHOR	COMM. FERT. ANALYSIS 22-5-10 (3)
	LIN FT	EACH	EACH	ACRE	POUND	SQ YD	TON	ACRE	POUND
COUNTY ROAD 56									
STA. 41+40 TO STA. 51+65	1842		9	0.6	59	904	1.2	0.6	301
STA. 51+65 TO STA. 90+90	2415	1	15	0.5	51	2405	1.0	0.5	379
SUBTOTAL	4257	1	24	1.1	110	3309	2.2	1	680
COUNTY ROAD 116									
STA. 1067+92 TO STA. 1077+10	1542	1	4	0.6	59	452	1.2	0.6	267
STA. 1078+43 TO STA. 1087+03	1403	1	4	0.5	54	1177	1.1	0.5	300
SUBTOTAL	2945	2	8	1.1	113	1629	2.3	1	567
PROJECT TOTAL	7202	3	32	2.2	223	4938	4.5	2	1247

BASIS OF QUANTITIES:

- (1) APPLIED AT A RATE OF 100 POUND/ACRE.
- (2) APPLIED AT A RATE OF 2 TON/ACRE.
- (3) APPLIED AT A RATE OF 400 POUND/ACRE FOR SEED MIX 260.
APPLIED AT A RATE OF 350 POUND/ACRE FOR SODDING.

DRAWN BY: RPM

CHECKED BY: JMW

CERTIFIED BY Joseph W. Wenzel LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
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QUANTITY TABULATIONS

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EARTHWORK VOLUMES BY STATIONS						
STATION	EXCAVATION (EV)			EMBANKMENT (CV)		
	TOPSOIL	SUITABLE	SUBGRADE TREATMENT	SUITABLE GRADING	GRANULAR	TOPSOIL
CR 56 (RAMSEY BLVD.)						
41+40.10						
41+50.00	0	11	24	60	10	8
42+00.00	22	52	114	299	42	38
42+50.00	32	53	111	150	18	23
43+00.00	38	51	117	117	29	23
43+50.00	57	50	115	200	58	35
43+82.10	38	35	82	120	29	27
44+00.00	22	21	50	64	12	15
44+50.00	56	60	131	169	43	34
45+00.00	56	61	125	147	50	32
45+50.00	52	60	137	100	40	26
46+00.00	49	63	145	59	32	21
46+50.00	46	48	146	41	30	20
47+00.00	45	21	141	40	34	19
47+50.00	42	7	129	40	45	18
48+00.00	44	2	111	70	62	20
48+50.00	47	3	96	150	76	27
49+00.00	51	3	94	235	76	33
49+50.00	55	9	125	265	56	40
49+74.94	23	17	85	124	18	18
50+00.00	22	31	88	108	17	17
50+50.00	44	89	163	160	20	34
51+00.00	31	132	165	88	5	27
51+11.58	5	31	39	11	0	6

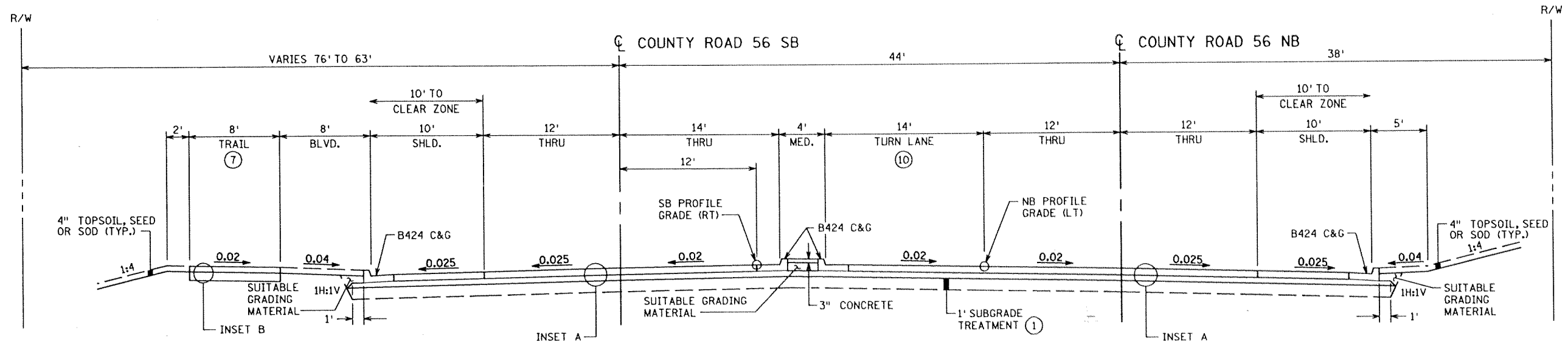
EARTHWORK VOLUMES BY STATIONS						
STATION	EXCAVATION (EV)			EMBANKMENT (CV)		
	TOPSOIL	SUITABLE	SUBGRADE TREATMENT	SUITABLE GRADING	GRANULAR	TOPSOIL
CR 56 (RAMSEY BLVD.) CONTINUED						
67+61.61						
68+00.00	7	89	136	5	0	10
68+50.00	9	144	177	7	0	13
69+00.00	19	205	176	7	0	16
69+50.00	35	255	176	10	0	20
70+00.00	41	277	177	11	0	22
70+50.00	30	317	205	11	0	16
71+00.00	30	313	201	10	0	16
71+50.00	39	265	170	8	0	21
72+00.00	41	260	173	8	0	22
72+50.00	42	253	177	16	0	23
73+00.00	42	202	177	29	0	21
73+50.00	40	133	169	34	8	19
74+00.00	46	82	150	85	27	26
74+50.00	51	51	127	198	50	34
76+50.00	184	711	585	543	124	93
77+00.00	42	403	177	12	0	13
77+50.00	43	526	177	12	0	15
78+00.00	43	542	177	12	0	17
78+50.00	42	415	177	12	0	15
79+00.00	43	249	166	14	11	12
79+50.00	47	170	164	22	11	14
80+00.00	49	127	156	51	15	20
80+50.00	51	116	137	74	24	23
81+00.00	38	124	159	64	15	17
81+50.00	28	83	145	57	6	16
82+00.00	25	55	110	39	0	18
82+50.00	15	41	76	9	0	11
83+00.00	9	22	35	1	0	8
83+50.00	6	17	28	0	0	6
84+00.00	4	14	23	0	0	4
SUBTOTALS	2018	7371	7416	4178	1093	1142

EARTHWORK VOLUMES BY STATIONS						
STATION	EXCAVATION (EV)			EMBANKMENT (CV)		
	TOPSOIL	SUITABLE	SUBGRADE TREATMENT	SUITABLE GRADING	GRANULAR	TOPSOIL
CR 116 (BUNKER LAKE BLVD.)						
1068+00.00						
1068+50.00	4	2	3	0	0	4
1069+00.00	11	3	7	3	0	10
1069+50.00	17	3	8	7	0	15
1070+00.00	23	4	10	18	0	19
1070+50.00	38	72	12	14	0	34
1071+00.00	46	74	17	35	3	39
1071+50.00	47	8	25	101	13	34
1072+00.00	53	8	27	163	26	31
1072+50.00	59	12	24	261	38	31
1073+00.00	63	17	24	328	42	33
1073+50.00	63	15	24	325	40	33
1074+00.00	64	12	23	336	44	32
1074+50.00	71	11	22	367	48	33
1075+00.00	77	10	22	379	49	34
1075+50.00	77	9	21	377	49	35
1076+00.00	79	9	21	377	49	36
1076+50.00	81	12	27	365	43	39
1077+00.00	85	12	33	358	43	40
1078+00.00						
1078+50.00	91	26	141	283	43	38
1079+00.00	88	27	140	279	33	41
1079+50.00	98	29	134	368	39	51
1080+00.00	111	33	130	489	43	63
1080+50.00	110	34	128	525	45	63
1081+00.00	97	50	137	406	36	50
1081+50.00	78	62	144	224	25	33
1082+00.00	65	60	139	115	25	22
1082+50.00	62	64	137	94	25	20
1083+00.00	64	74	135	82	24	24
1083+50.00	65	88	135	68	16	29
1084+00.00	64	90	112	63	6	33
1084+50.00	53	55	59	57	1	33
1085+00.00	40	25	29	43	1	30
1085+50.00	39	19	28	37	0	29
1086+00.00	22	13	27	19	0	16
1086+50.00	5	13	25	1	0	4
1087+00.00						
SUBTOTALS	2110	1055	2130	6967	849	1111

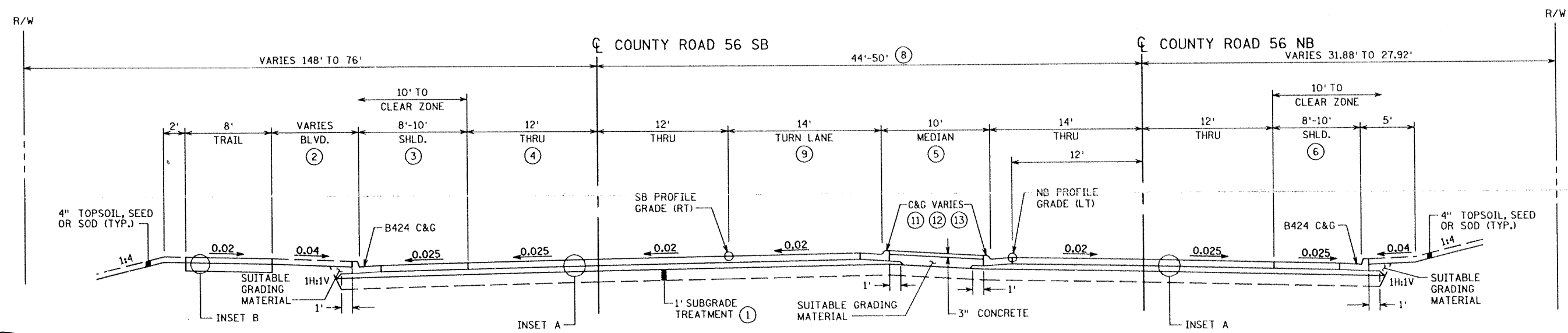
EARTHWORK SUMMARY - TAB J						
	EXCAVATION (EV)			EMBANKMENT (CV)		
	TOPSOIL	SUITABLE	SUBGRADE TREATMENT	SUITABLE GRADING	GRANULAR	TOPSOIL
CR 56 (RAMSEY BLVD.)						
	2018	7371				
SUBTOTALS	9389	7416	4178	1093	1142	
CR 116 (BUNKER LAKE BLVD.)						
	2110	1055				
SUBTOTALS	3165	2130	6967	849	1111	
TOTALS	12554	9546	11145	1942	2253	

- NOTES:
 (1) ASSUMED AN AVERAGE TOPSOIL DEPTH OF 4".
 (2) SUBGRADE TREATMENT SHALL BE PAID FOR AS COMMON EXCAVATION.
 (3) PAY ITEM
 (4) DISPOSE OF EXCESS TOPSOIL ON SITE AT LOCATIONS APPROVED BY THE ENGINEER.

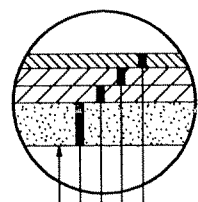
EARTHWORK BALANCE			
EXCAVATION (C.Y.)		EMBANKMENT (C.Y.)	
(3) COMMON EXCAVATION	22100 (EV)	TOPSOIL (1)	4128 (EV)
		EXCESS TOPSOIL (4)	1199 (EV)
		TOPSOIL MATERIAL NEEDED	2929 (EV) / 1.3 = 2253 (CV)
		GRADING MATERIAL AVAILABLE	8426 (EV) / 1.3 = 6481 (CV)
		(3) COMMON BORROW	6530 (LV) / 1.4 = 4664 (CV)
		(3) GRANULAR BORROW	2719 (LV) / 1.4 = 1942 (CV)
		SUITABLE	8426 (EV)
		SUBGRADE TREATMENT	9546 (EV)
		TOPSOIL EMBANKMENT	2253 (CV)
		SUITABLE GRADING EMBANKMENT	11145 (CV)
		GRANULAR EMBANKMENT	1942 (CV)



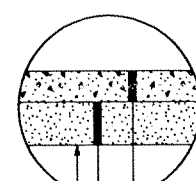
COUNTY ROAD 56 SB STA. 49+75 TO STA. 51+12



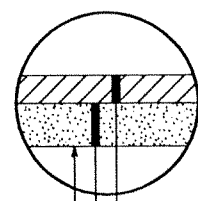
COUNTY ROAD 56 SB STA. 41+40 TO STA. 49+75



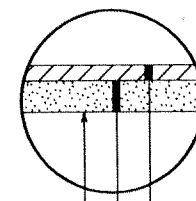
INSET A



INSET B



DRIVEWAY INSET



INSET C

NOTES:

- ① SUBGRADE TREATMENT SHALL CONSIST OF MIXING THE UPPER 1' OF THE SUBGRADE AND SHALL BE PAID FOR AS COMMON EXCAVATION. WHERE UPPER 1' OF THE SUBGRADE IS IN EMBANKMENT AREA, BACKFILL MATERIAL SHALL CONSIST OF GRANULAR BORROW.
- ② BLVD. WIDTH VARIES:
8.5' - 8.0', SB STA. 41+40 TO STA. 41+65
8' - 13', SB STA. 41+75 TO RR TRACKS
13' - 8', RR TRACKS TO SB STA. 43+33.
- ③ SB SHOULDER VARIES:
7' - 8', SB STA. 41+40 TO STA. 41+65
8' - 10', SB STA. 44+22 TO STA. 45+22.
- ④ SB THRU LANE VARIES:
13.8' - 12', SB STA. 41+40 TO STA. 41+65.
- ⑤ MEDIAN WIDTH VARIES:
9.8' TO 10', SB STA. 41+40 TO STA. 41+60
10' - 4', SB STA. 45+75 TO STA. 49+05.
- ⑥ NB SHOULDER VARIES:
8' - 10', SB STA. 145+75 TO STA. 149+05.
- ⑦ CONTINUE CONSTRUCTION OF 8' TRAIL TO STA. 57+25.
- ⑧ VARIES FROM 50' TO 44', SB STA. 45+75 TO STA. 49+05.
- ⑨ VARIES FROM 14' TO 2', SB STA. 49+26.68 TO STA. 50+16.88.
- ⑩ VARIES FROM 2' TO 14', SB STA. 49+26.68 TO STA. 50+16.88.
- ⑪ B624 CURB AND GUTTER FROM SB STA. 41+40 TO STA. 43+50.
- ⑫ SEE EMERGENCY VEHICLE DETAIL SB STA. 48+30.
- ⑬ TRANSITION B424 C&G TO B424 C&G (MOD) GUTTER SLOPES MATCHING PAVEMENT STA. 49+17 TO STA. 49+27.

GENERAL NOTES:

- ALL STATIONS REFER TO COUNTY ROAD 56 SB UNLESS OTHERWISE INDICATED.
- SEE CONSTRUCTION PLANS FOR TURN LANE LOCATIONS.
- ALL CROSS SLOPES ARE EXPRESSED IN FT/FT.
- NORMAL CROSS SLOPES ARE SHOWN. FOR SUPERELEVATION TRANSITIONS, SEE INTERSECTION DETAILS.
- MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 0.07 FT/FT.
- UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE CROSS SLOPES SHALL BE THE SAME AS THE FINISHED SURFACE OF THE MAINLINE.
- UNLESS OTHERWISE SPECIFIED, CLASS 5 AGGREGATE WILL EXTEND 1' BEYOND BACK OF CURB.

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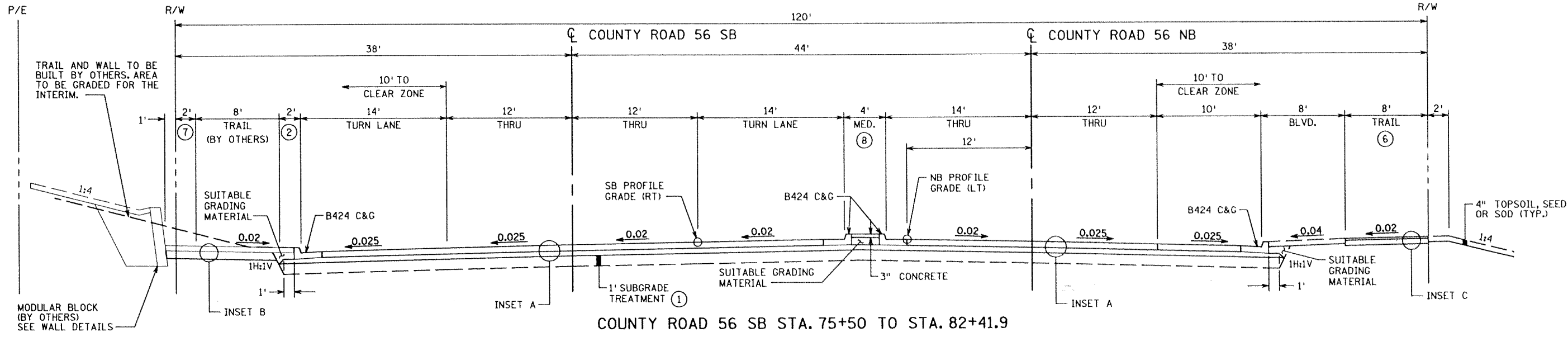
DRAWN BY: TJV
CHECKED BY: JMW

CERTIFIED BY: *Joseph Weaver* LIC. NO. 22405 DATE 3-20-06
LICENSED PROFESSIONAL ENGINEER

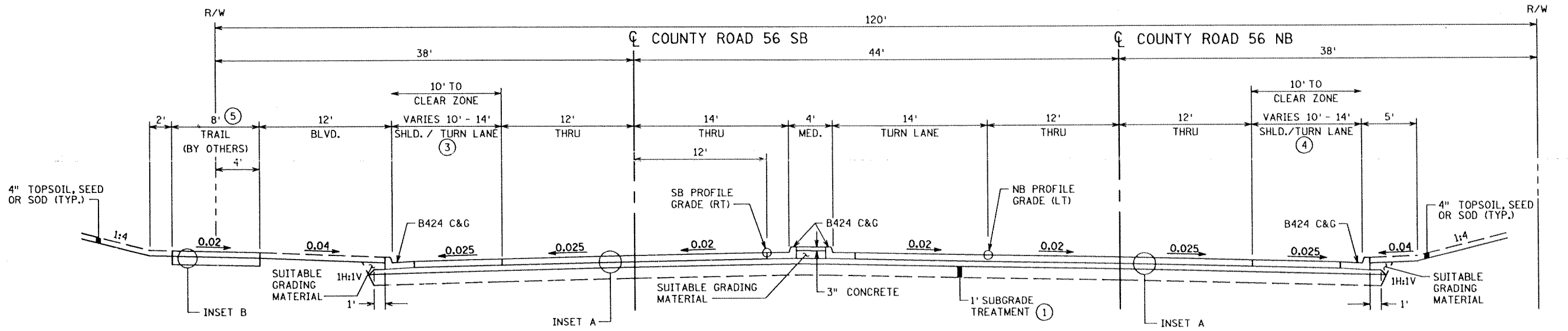
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TYPICAL SECTIONS

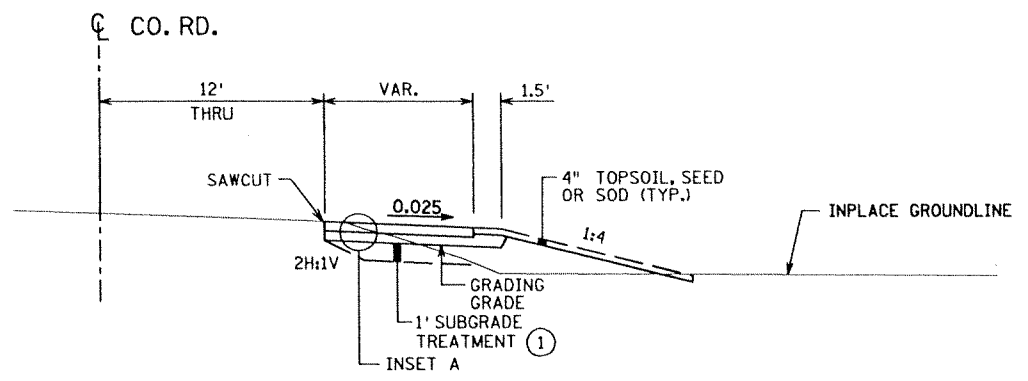
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COUNTY ROAD 56 SB STA. 75+50 TO STA. 82+41.9



COUNTY ROAD 56 SB STA. 67+62 TO STA. 75+50



TYPICAL WIDENING
CO. RD. 56 SB STA. 82+41.9 TO STA. 83+39.64 (MIRRORED)
CO. RD. 56 NB STA. 182+41.9 TO STA. 184+42.2

NOTES:

- ① SUBGRADE TREATMENT SHALL CONSIST OF MIXING THE UPPER 1' OF THE SUBGRADE AND SHALL BE PAID FOR AS COMMON EXCAVATION. WHERE UPPER 1' OF THE SUBGRADE IS IN EMBANKMENT AREA, BACKFILL MATERIAL SHALL CONSIST OF GRANULAR BORROW.
- ② 2" CONCRETE BLVD. FROM SB STA. 75+50 TO STA. 79+11.5.
SODDED BLVD. VARIES FROM 2' - 8', SB STA. 74+11.5 TO STA. 79+11.5.
SODDED 8' BLVD. FROM SB STA. 79+11.5 TO STA. 81+00.
- ③ SB TURN LANE TRANSITIONS TO SHOULDER 14' - 10', SB STA. 68+62 TO STA. 69+22.
- ④ NB SHOULDER TRANSITIONS TO TURN LANE 10' - 14', NB STA. 170+20 TO STA. 172+00.

GENERAL NOTES:

- ALL STATIONS REFER TO COUNTY ROAD 56 SB UNLESS OTHERWISE INDICATED.
- SEE CONSTRUCTION PLANS FOR TURN LANE LOCATIONS.
- ALL CROSS SLOPES ARE EXPRESSED IN FT/FT.
- NORMAL CROSS SLOPES ARE SHOWN. FOR SUPERELEVATION TRANSITIONS, SEE INTERSECTION DETAILS.
- MAXIMUM SHOULDER SUPERELEVATION ROLLOVER SHALL BE 0.07 FT/FT.
- UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE CROSS SLOPES SHALL BE THE SAME AS THE FINISHED SURFACE OF THE MAINLINE.
- UNLESS OTHERWISE SPECIFIED, CLASS 5 AGGREGATE WILL EXTEND 1' BEYOND BACK OF CURB.

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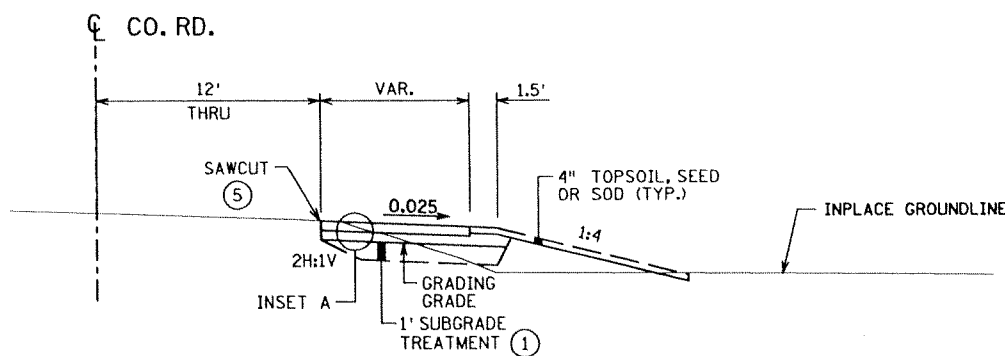
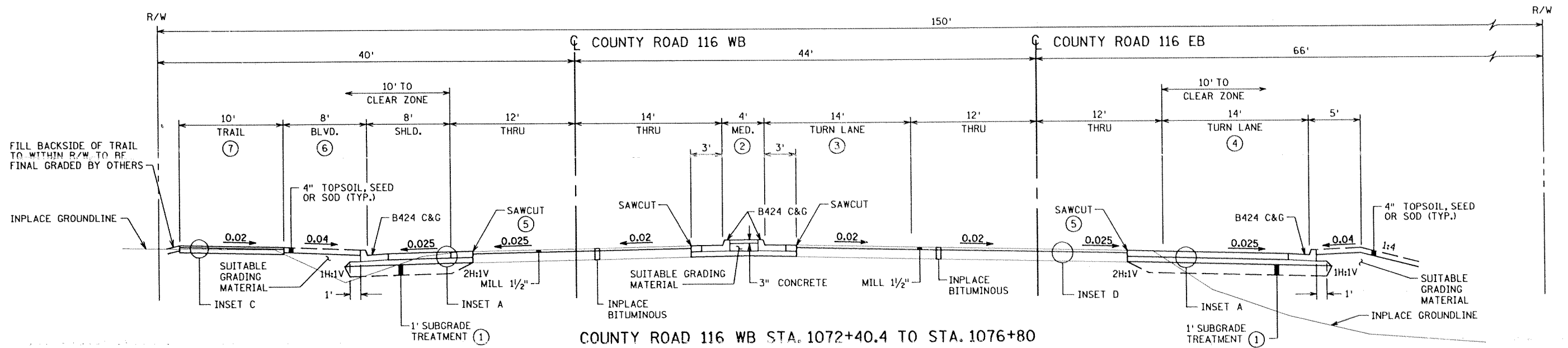
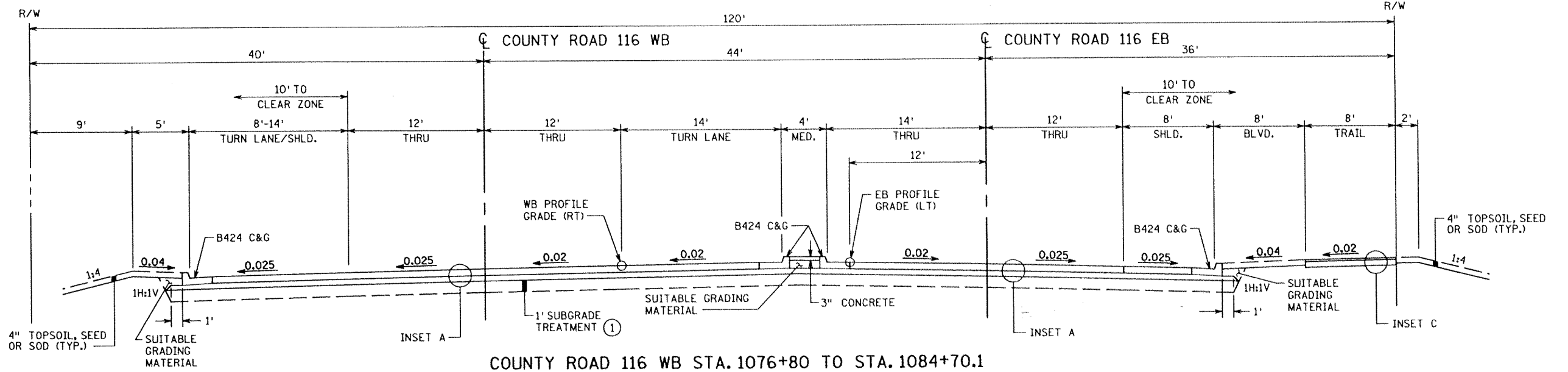
DRAWN BY: TJV
CHECKED BY: JMW

CERTIFIED BY: *Joseph W. ...*
LIC. NO. 22405 DATE 3-20-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

TYPICAL SECTIONS

C.P. 05-20
Sheet No. 11 of 94 Sheets



NOTES:

- ① SUBGRADE TREATMENT SHALL CONSIST OF MIXING THE UPPER 1' OF THE SUBGRADE AND SHALL BE PAID FOR AS COMMON EXCAVATION. WHERE UPPER 1' OF THE SUBGRADE IS IN EMBANKMENT AREA, BACKFILL MATERIAL SHALL CONSIST OF GRANULAR BORROW.
- ② MEDIAN WIDTH VARIES: 16' TO 4', WB STA 1072+40 TO STA. 1074+20.
- ③ VARIES FROM 2' TO 14', WB STA. 1072+40 TO STA. 1074+20.
- ④ VARIES FROM 0' TO 14', WB STA. 1072+40 TO STA. 1074+20.
- ⑤ SAWCUT BITUMINOUS 1' FROM INPLACE EDGE.
- ⑥ STA. 1072+40.4 TO 1074+25 (NO TRAIL) BLVD. TO MATCH INPLACE GROUNDLINE WITH 4% SLOPE, SEE CROSS SECTIONS.
- ⑦ BEGIN TRAIL AT STA. 1074+25 MATCH INPLACE

GENERAL NOTES:

- ALL STATIONS REFER TO COUNTY ROAD 56 SB UNLESS OTHERWISE INDICATED.
- SEE CONSTRUCTION PLANS FOR TURN LANE LOCATIONS.
- ALL CROSS SLOPES ARE EXPRESSED IN FT/FT.
- NORMAL CROSS SLOPES ARE SHOWN. FOR SUPERELEVATION TRANSITIONS, SEE INTERSECTION DETAILS.
- MAXIMUM SHOULDER SUPERELEVATION ROLL-OVER SHALL BE 0.07 FT/FT.
- UNLESS OTHERWISE SPECIFIED, THE GRADING GRADE CROSS SLOPES SHALL BE THE SAME AS THE FINISHED SURFACE OF THE MAINLINE.
- UNLESS OTHERWISE SPECIFIED, CLASS 5 AGGREGATE WILL EXTEND 1' BEYOND BACK OF CURB.

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DRAWN BY: TJV

CHECKED BY: JMW

CERTIFIED BY

Joseph Warner
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-20-06

TKDA

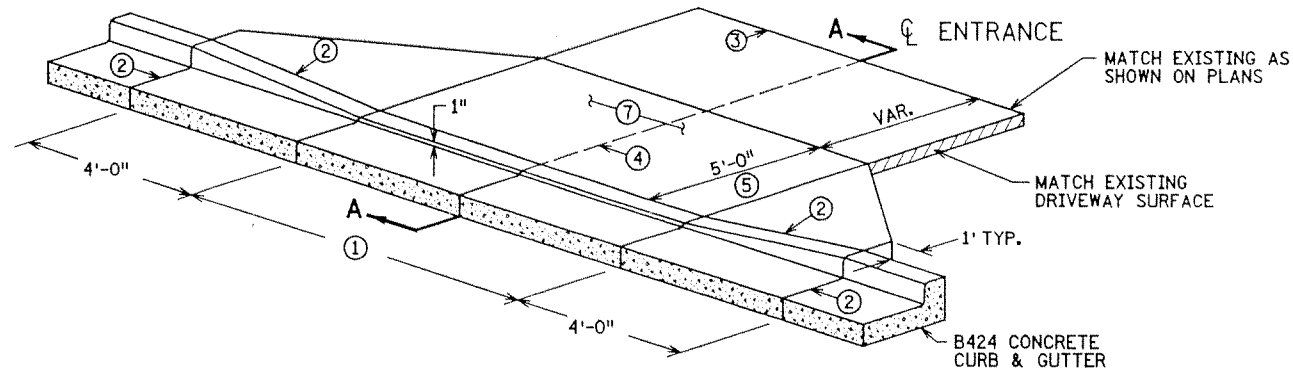
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS • ARCHITECTS • PLANNERS SAINT PAUL, MINNESOTA

TYPICAL SECTIONS

C.P. 05-20

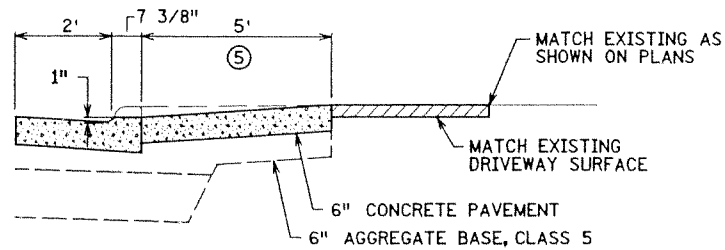
Sheet No. 12 of 94 Sheets

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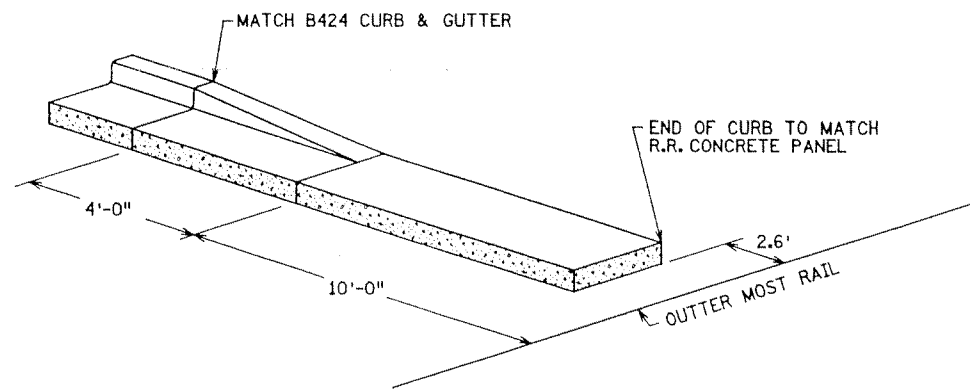
CONCRETE APRON DETAIL

SEE CONSTRUCTION PLANS FOR LOCATIONS



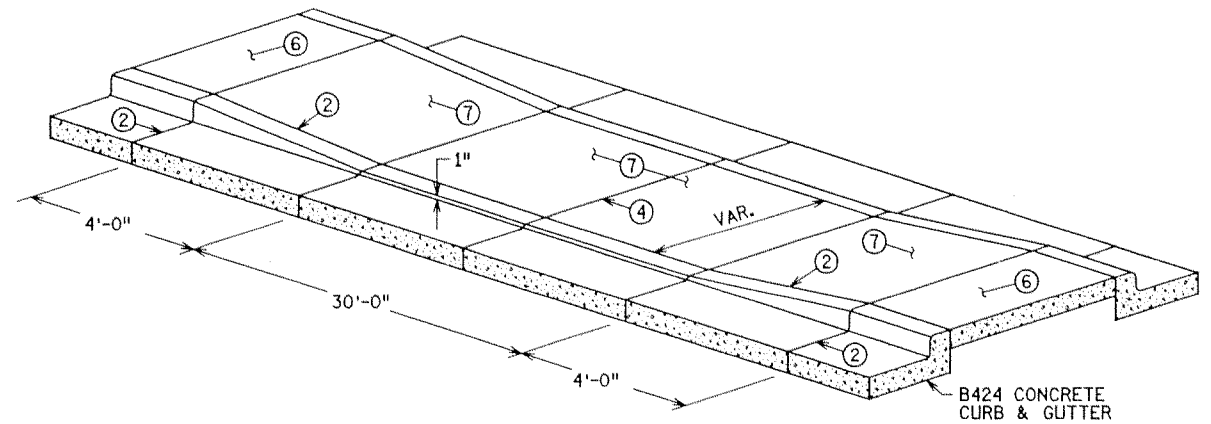
**SECTION A-A
APRON DETAIL**

SEE CONSTRUCTION PLANS FOR LOCATIONS



CURB TRANSITION AT RR TRACKS

SEE CONSTRUCTION PLANS FOR LOCATION

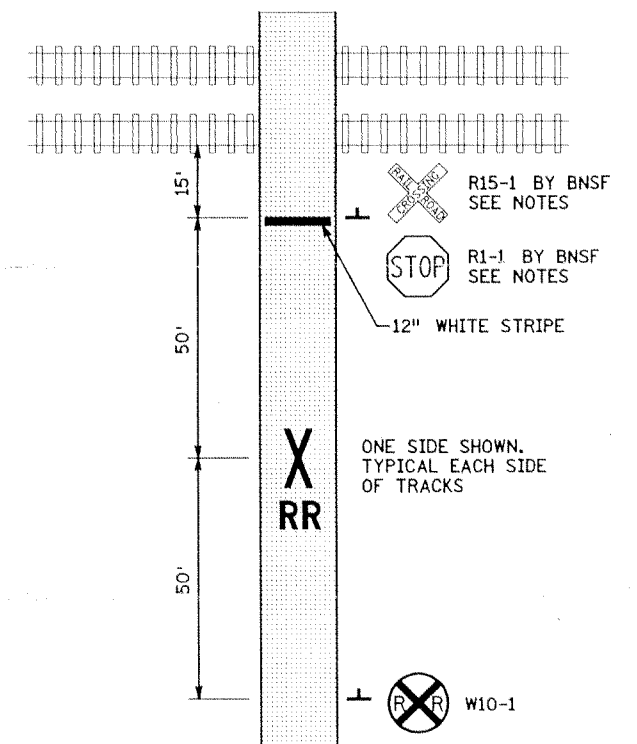


**DEPRESSED MEDIAN FOR
EMERGENCY VEHICLES**

SEE CONSTRUCTION PLANS FOR LOCATION

NOTES:

- ① EXACT WIDTH OF ENTRANCE SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER (12' MIN.) OR AS SHOWN IN THE PLANS.
- ② 0.5" EXPANSION JOINT.
- ③ REPLACE DISTURBED DRIVEWAYS TO END OF CONSTRUCTION LIMITS. SEE TYPICAL SECTIONS INSETS FOR SURFACING.
- ④ PLACE JOINTS AS REQUIRED FOR CONCRETE CONSTRUCTION.
- ⑤ EXTEND APRON TO EDGE OF TRAIL.
- ⑥ CONSTRUCT 3" CONCRETE WALK.
- ⑦ CONSTRUCT 6" CONCRETE DRIVE.

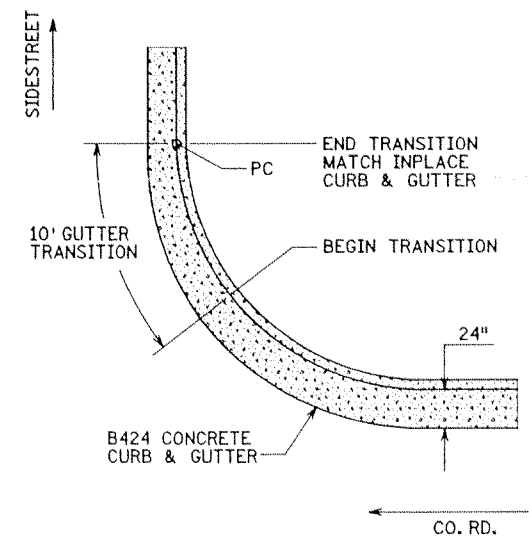


TRAIL PAVEMENT MARKING DETAIL

NO SCALE

NOTES:

- 1) LOCATE AND INSTALL SIGNS AND STRIPING PER CHAPTER 9 OF MUTCD, 2003 EDITION.
- 2) (2) RR CROSSBUCK SIGNS AND (2) STOP SIGNS AT CROSSING FURNISHED AND INSTALLED BY BNSF.
- 3) RAILROAD CROSSING MESSAGE SHALL BE STD. HWY-RAIL GRADE CROSSING MESSAGE PER MUTCD; FULL WIDTH OF TRAIL, BOTH SIDES OF TRACKS.



**STANDARD STREET RADII FOR
CONCRETE CURB & GUTTER TRANSITION**

NO SCALE

DRAWN BY: TJV

CHECKED BY: JMW

CERTIFIED BY

James Weaver
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

TKDA

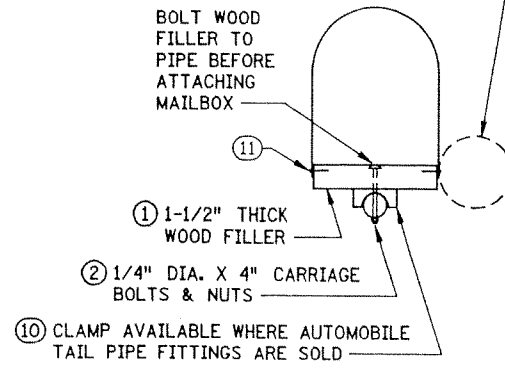
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

MISCELLANEOUS DETAILS

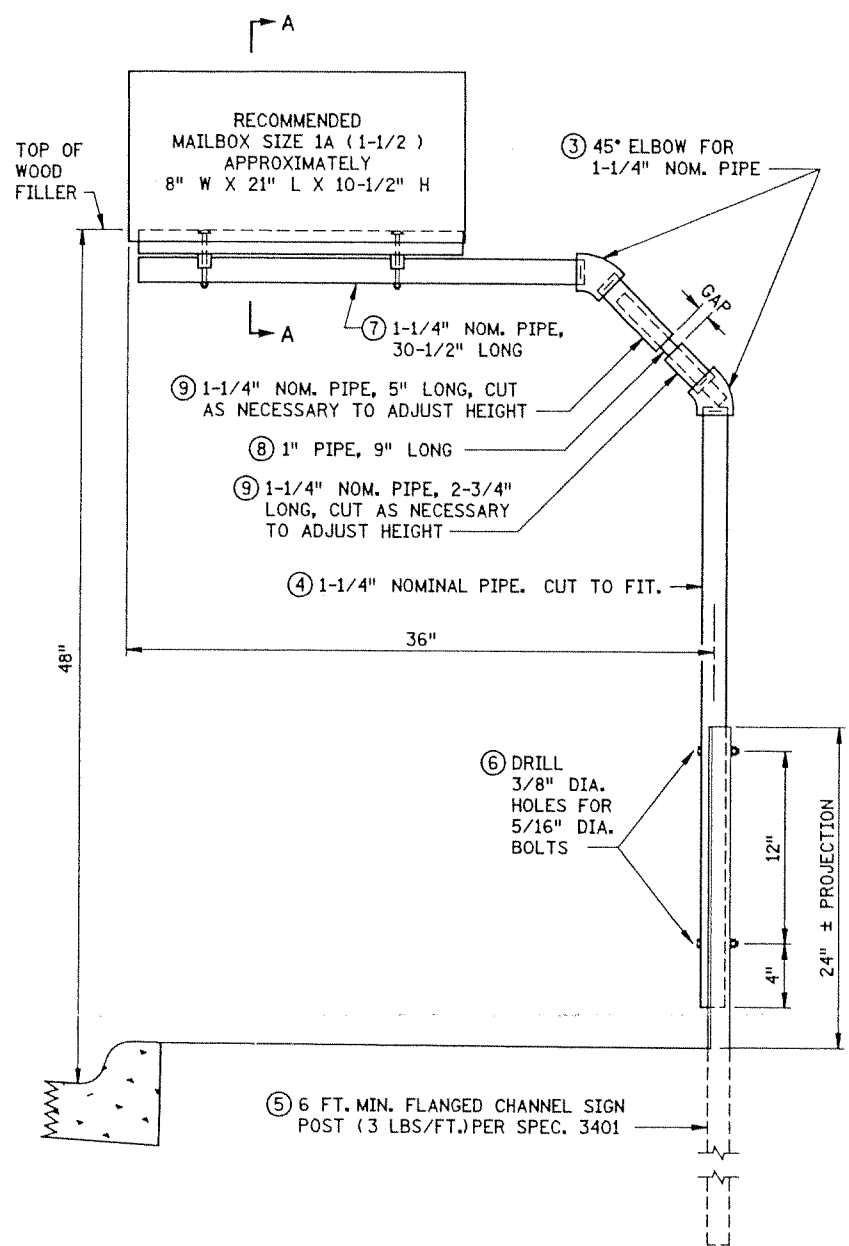
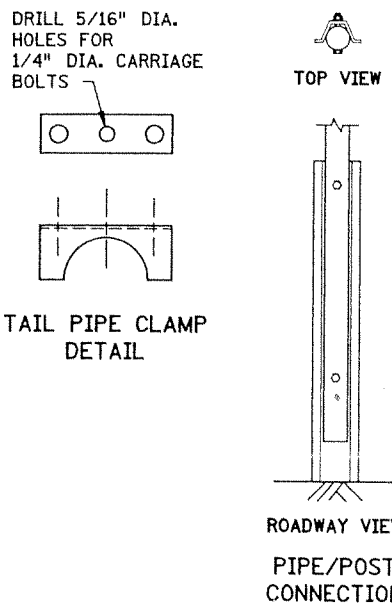
C.P. 05-20

Sheet No. 13 of 94 Sheets

IF NECESSARY, LOCATE NEWSPAPER HOLDER ABOVE HORIZONTAL PIPE TO PREVENT SNOW PLOW DAMAGE.



SECTION A-A

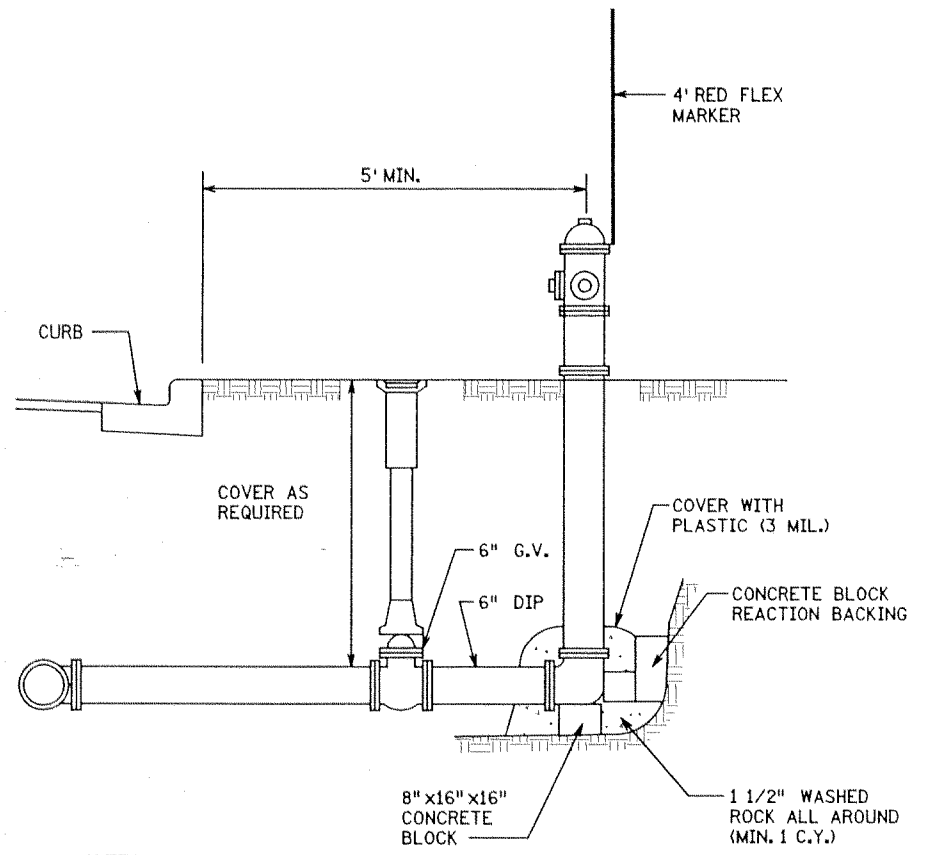


URBAN MAILBOX SUPPORT

STEEL PIPE WITH FITTINGS AND STEEL FENCE POST

LIST OF MATERIALS FOR CONTRACTORS

ITEM NO.	NUMBER REQUIRED	DESCRIPTION
1	1	1-1/2" THICK WOOD FILLER CUT TO FIT SNUG UNDER MAIL BOX
2	2	1/4" DIA. X 4" LONG CARRIAGE BOLTS & NUTS
3	2	45° ELBOW FOR 1-1/4" NOMINAL PIPE
4	1	1-1/4" NOMINAL PIPE, CUT TO FIT
5	1	6 FT. MIN. SIGN POST (3 LBS./FT.)
6	2	5/16" DIA. BOLT, NUT & LOCKWASHER
7	1	1-1/4" NOMINAL PIPE, 30-1/2" LONG
8	1	1" PIPE, 9" LONG
9	1	1-1/4" NOMINAL PIPE, 5" LONG
	1	1-1/4" NOMINAL PIPE, 2-3/4" LONG
10	2	1-1/2" TAIL PIPE CLAMP
11	9	NO. 10 X 1" SHEET METAL SCREWS



NOTES:

1. IN AREAS OF EXTRA DEPTH ON THE WATERMAIN, HYDRANT EXTENSIONS MAY BE REQUIRED.
2. HYDRANT, VALVE AND FITTINGS SHALL BE RESTRAINED. RETAINING GLANDS SHALL BE USED.
3. TOP NUT OF HYDRANT 2.5' ABOVE TOP BACK OF CURB.
4. HYDRANTS BURIED BELOW WATER TABLE, DRAIN HOLES NEED TO BE PLUGGED AND HYDRANT MARKED BY PAINTING 5" CAP YELLOW.
5. ALL VALVE BOXES SHALL HAVE A VALVE NUT EXTENSION TO WITHIN 1' OF FINISHED GRADE.
6. BRUSH PAINT ALL HYDRANTS AFTER INSTALLATION IS COMPLETE.

HYDRANT RELOCATION DETAIL

NOT TO SCALE

GENERAL NOTES

- ALL PIPE AND PIPE FITTINGS SHALL CONFORM TO SPEC 3362.
- ALL FASTENERS SHALL CONFORM TO SPEC 3391.
- ALL MATERIALS SHALL BE GALVANIZED PER SPEC 3392.
- MAILBOX LOCATIONS SHOULD BE STAKED BEFORE INSTALLATION FOR PROPER HEIGHT AND DISTANCE FROM THE ROADWAY, ONCE STAKED, THE INSTALLER MUST NOTIFY THE ENGINEER AND THE POST OFFICE. THE ENGINEER AND POSTMASTER/MAILCARRIER WILL BE ALLOWED 48 HOURS TO REVIEW AND MODIFY THE STAKED LOCATIONS PRIOR TO FINAL INSTALLATION.
- OTHER MN/DOT APPROVED MAILBOX SUPPORTS MAY BE USED. THESE INCLUDE THE DESIGNS DEVELOPED BY MARSHALL COUNTY, THE ROCHESTER MN/DOT DISTRICT, FRIEND INNOVATIONS AND MINNOR INDUSTRIES.
- DESIGN MODIFICATIONS TO PREVIOUSLY APPROVED SUPPORTS SHALL BE DOCUMENTED AND SENT TO THE DESIGN STANDARDS ENGINEER, OFFICE OF TECHNICAL SUPPORT.
- THE MAILBOX TO BE 8 INCHES TO 12 INCHES OUTSIDE THE EDGE OF SHOULDER OR 6 INCHES TO 12 INCHES FROM FACE OF CURB.
- NO MORE THAN THREE MAILBOXES SPACED 30 INCHES CENTER TO CENTER ARE TO BE USED IN ONE LOCATION.
- BOX MUST BE LOCATED SO CARRIER CAN SERVE WITHOUT LEAVING VEHICLE.
- THE CONTRACTOR SHALL INSTALL SALVAGED MAILBOXES ON MAILBOX SUPPORTS, WHICH SHALL BE INCIDENTAL TO MAILBOX SUPPORTS.
- REMOVAL AND DISPOSAL OF SUPPORT POST IS INCIDENTAL TO SALVAGE MAILBOX.

MAILBOXES - TAB L

STATION	SIDE	SALVAGE MAILBOX	MAILBOX SUPPORT
		EACH	EACH
143+82 (NB CR56)	RT	1	1
178+93 (NB CR56)	RT	1	1
TOTAL		2	2

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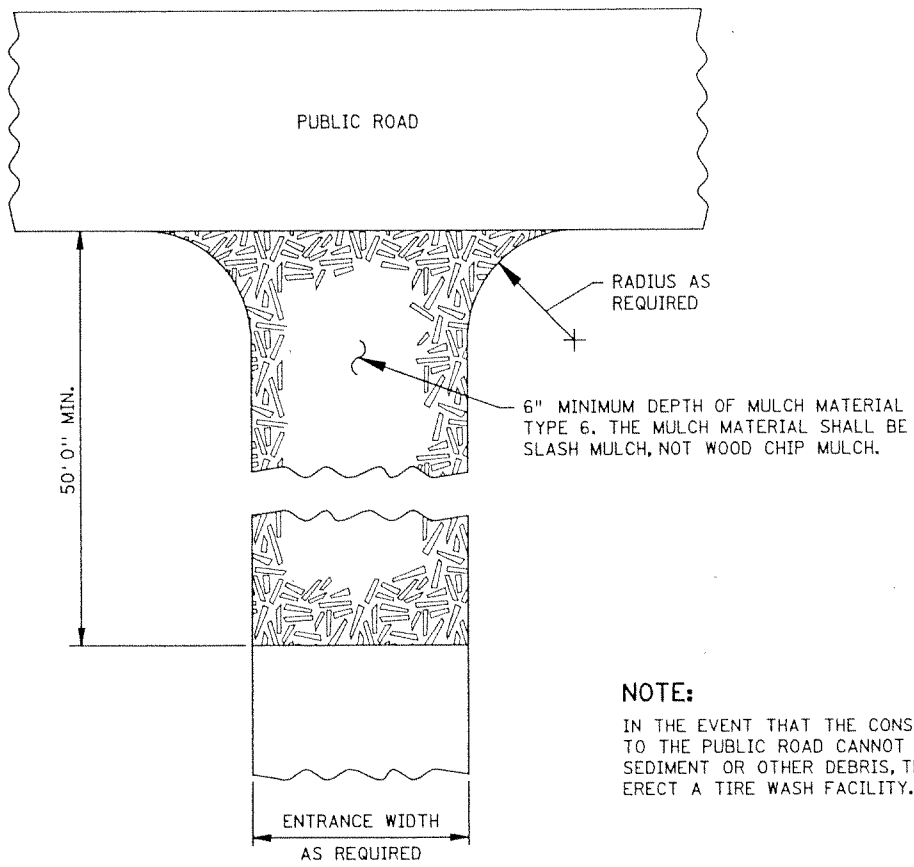
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CHECKED BY: MAW

CERTIFIED BY *James Weaver* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

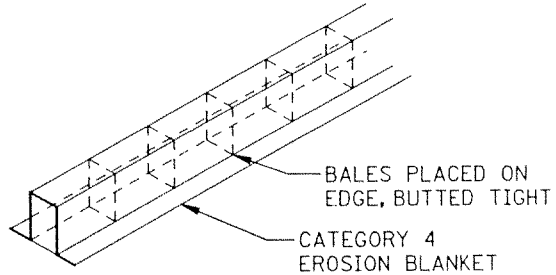
MISCELLANEOUS DETAILS

C.P. 05-20
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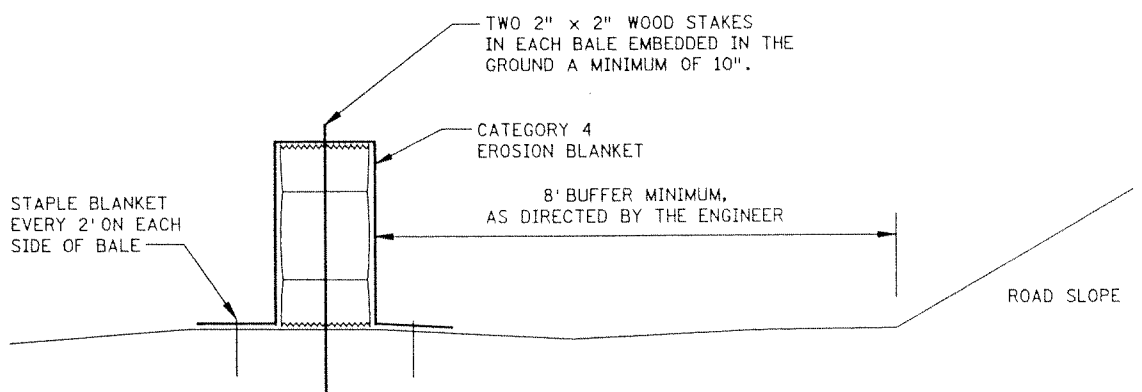


CONSTRUCTION EXIT PAD

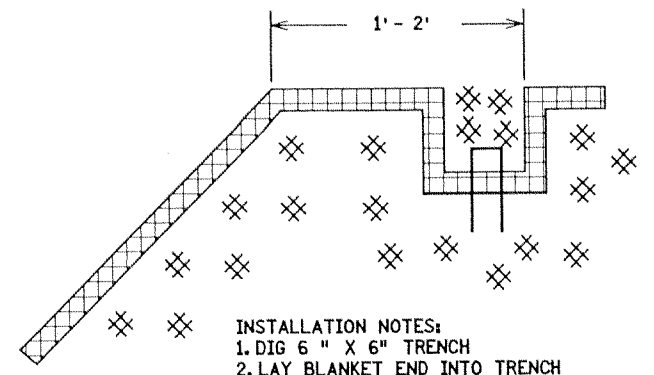
NOTE:
 IN THE EVENT THAT THE CONSTRUCTION EXIT PAD TO THE PUBLIC ROAD CANNOT BE KEPT CLEAN OF SEDIMENT OR OTHER DEBRIS, THE CONTRACTOR MUST ERECT A TIRE WASH FACILITY.



PERSPECTIVE



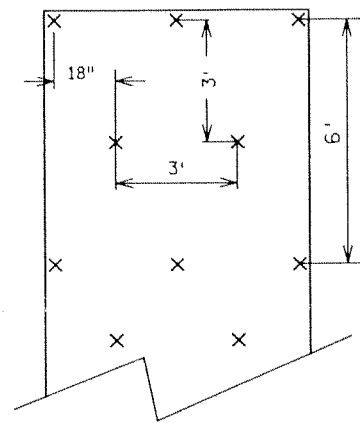
SECTION BALE BARRIER



- INSTALLATION NOTES:**
1. DIG 6" X 6" TRENCH
 2. LAY BLANKET END INTO TRENCH
 3. STAPLE BLANKET IN BOTTOM OF TRENCH EVERY 18".
 4. BACKFILL TRENCH WITH SOIL AND COMPACT.

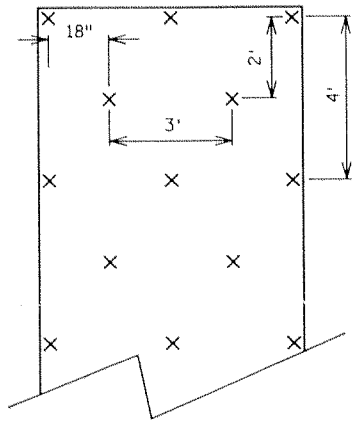
CHECK TRENCH

SLOPES FLATTER THAN 1:2 (1.2 STAPLES PER SQ. YD.)



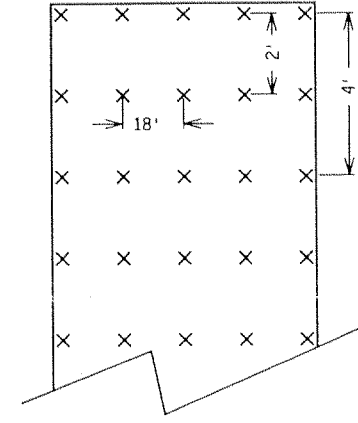
STANDARD 6' BLANKET

SLOPES 1:2 TO 1:1 (1.7 STAPLES PER SQ. YD.)



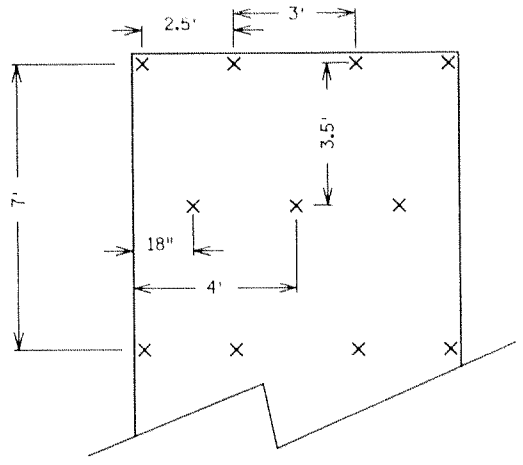
STANDARD 6' BLANKET

CHANNEL AND DITCH APPLICATIONS (3.5 STAPLES PER SQ. YD.)



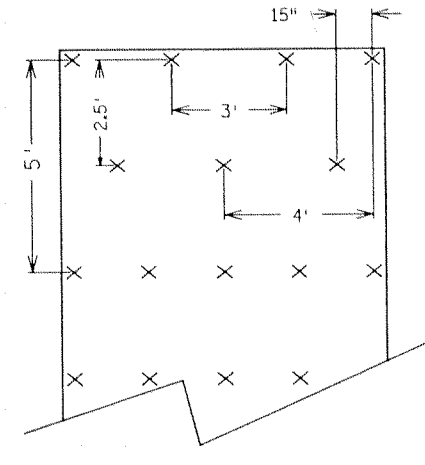
STANDARD 6' BLANKET

SLOPES FLATTER THAN 1:2 (1.2 STAPLES PER SQ. YD.)



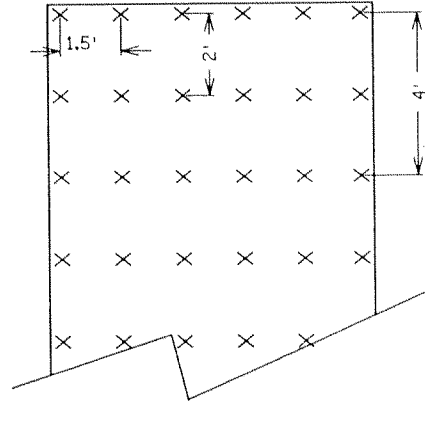
STANDARD 8' BLANKET

SLOPES 1:2 TO 1:1 (1.7 STAPLES PER SQ. YD.)



STANDARD 8' BLANKET

CHANNEL AND DITCH APPLICATIONS (3.5 STAPLES PER SQ. YD.)



STANDARD 8' BLANKET

BLANKET STAPLING PATTERN

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DRAWN BY: SFH
 CHECKED BY: MAW

CERTIFIED BY *Joseph W. ...* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVAL, ANDERSON AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

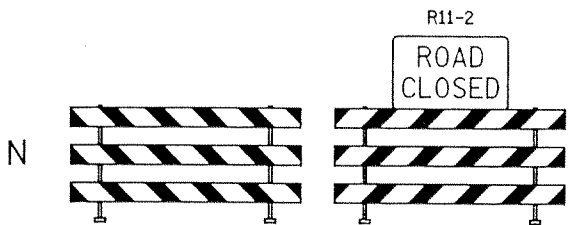
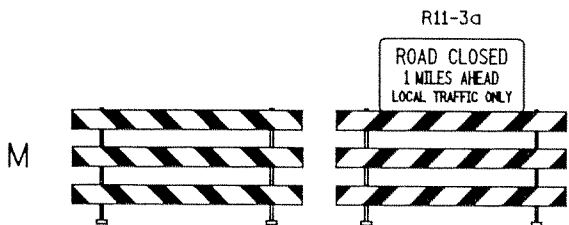
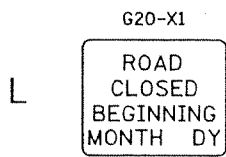
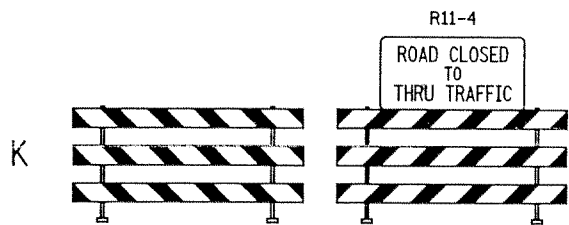
MISCELLANEOUS DETAILS
 CONSTRUCTION EXIT PAD, BALE BARRIER, CHECK TRENCH AND BLANKET STAPLING PATTERN

C.P. 05-20
 Sheet No. 15 of 94 Sheets

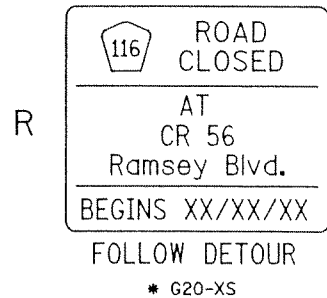
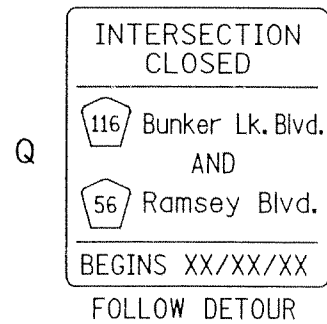
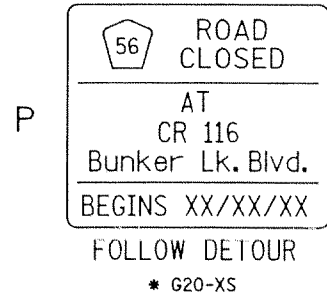
LEGEND

- 1 M4-10R
- 2 M4-10L
- 3 M6-1A
- 4 M6-1A
- 5 M5-1AR
- 6 M6-1AL
- 7 M6-3A

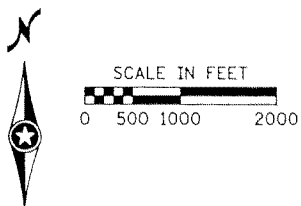
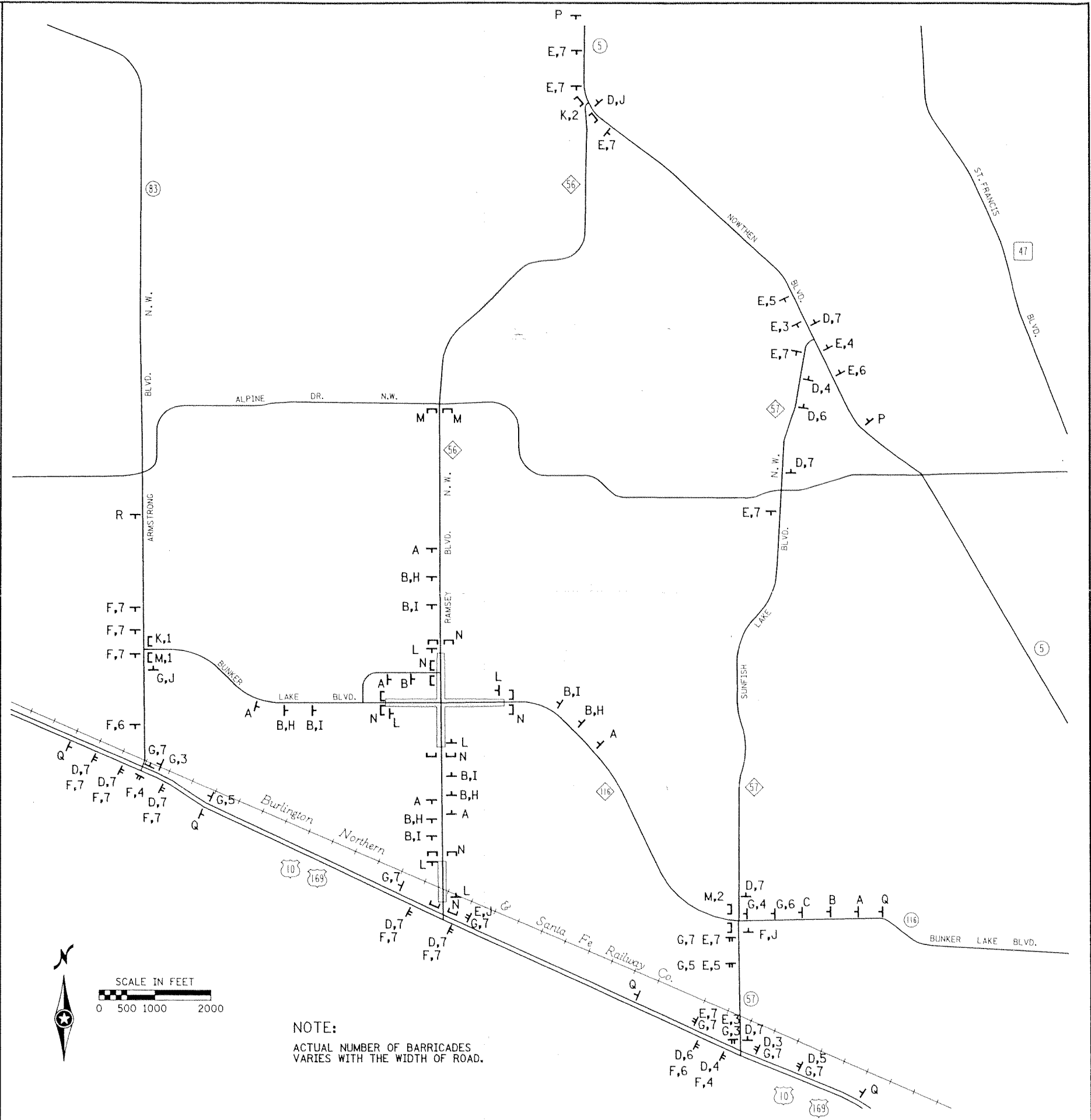
- A W20-1
- B W20-3
- C W20-2
- D M4-8 NORTH M3-1A
- E M4-8 SOUTH M3-3A
- F M4-8 EAST M3-2A
- G M4-8 WEST M3-4A
- H W20-100P
- I W20-100P
- J M4-6A



4 TO 6 BARRICADES AS NEEDED



* INSTALL 10 DAYS PRIOR TO CLOSURE. AT THE TIME OF CLOSURE, CHANGE BOTTOM PANEL TO: FOLLOW DETOUR



NOTE: ACTUAL NUMBER OF BARRICADES VARIES WITH THE WIDTH OF ROAD.

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DRAWN BY: SFH
CHECKED BY: JMW

CERTIFIED BY: LIC. NO. 22405 DATE 13-27-06

TKDA
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AND ASSOCIATES, INCORPORATED
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DETOUR PLAN / TRAFFIC CONTROL

C.P. 05-20
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CONTROL			
DESCRIPTION	NORTHING	EASTING	
IRON PIPE - 1110 SEC. 27, T.32, R.25	172066.767	452897.949	

ALIGNMENT TABULATION

POINT NO.	POINT	STATION	COORDINATES		AZIMUTH
			X	Y	

SB COUNTY ROAD 56

1202	POT	36+57.56	452,817.621	169,814.719	0° 00' 35"
1203	POT	40+00.00	452,817.680	170,157.160	358° 58' 05"
1204	POT	41+65.03	452,814.708	170,322.160	0° 00' 35"
1205	POT	62+90.30	452,815.073	172,447.429	359° 57' 11"
1206	POT	80+91.46	452,813.602	174,248.593	1° 05' 56"
1207	POT	85+91.56	452,823.193	174,748.601	359° 57' 11"
1208	POT	89+40.71	452,822.908	175,097.748	

NB COUNTY ROAD 56

1302	POT	136+57.56	452,861.621	169,814.711	0° 00' 35"
1303	POT	140+00.00	452,861.680	170,157.152	1° 03' 04"
1304	POT	141+65.03	452,864.708	170,322.151	0° 00' 35"
1305	POT	145+75.03	452,864.778	170,732.151	358° 58' 06"
1306	POT	149+05.08	452,858.835	171,062.152	0° 00' 35"
1307	POT	162+90.35	452,859.073	172,447.422	359° 57' 11"
1308	POT	180+91.56	452,857.602	174,248.629	358° 48' 27"
1309	POT	185+91.66	452,847.193	174,748.621	359° 57' 11"
1310	POT	189+40.81	452,846.908	175,097.707	

WB COUNTY ROAD 116

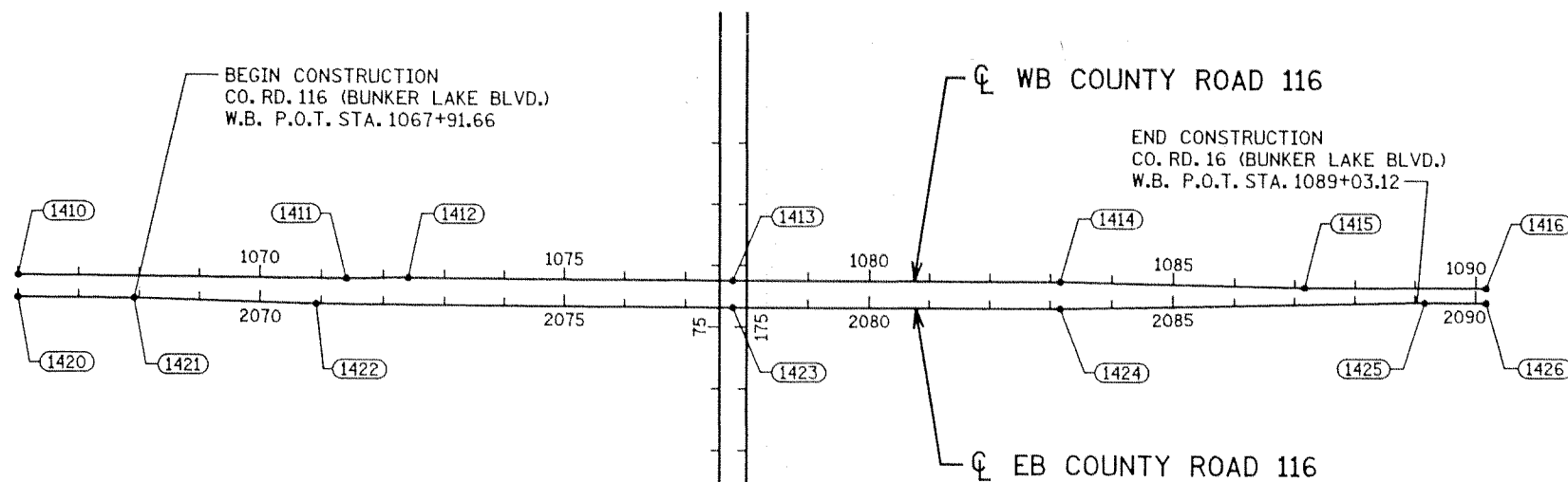
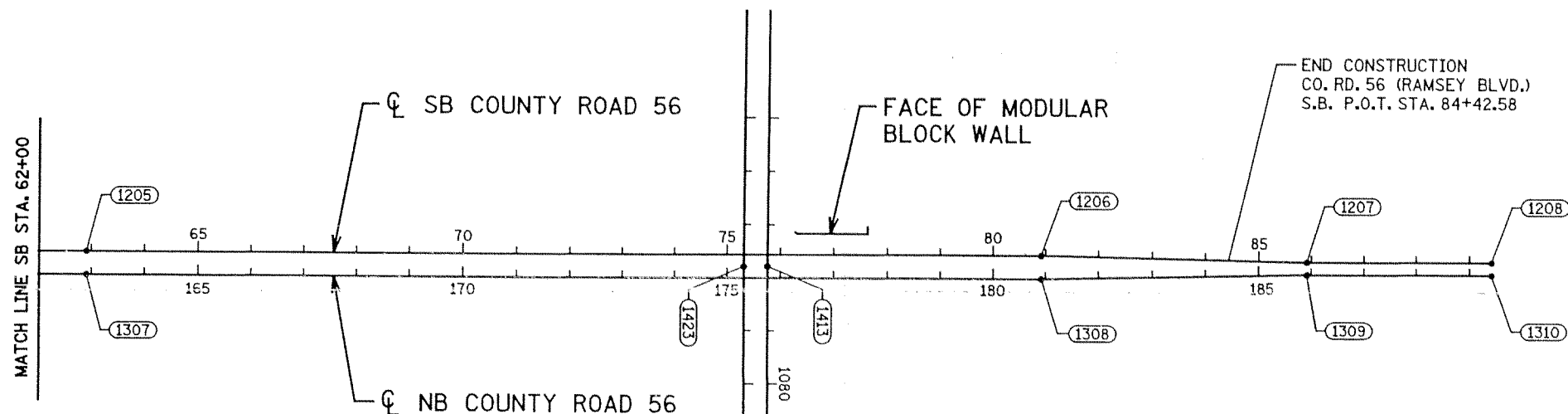
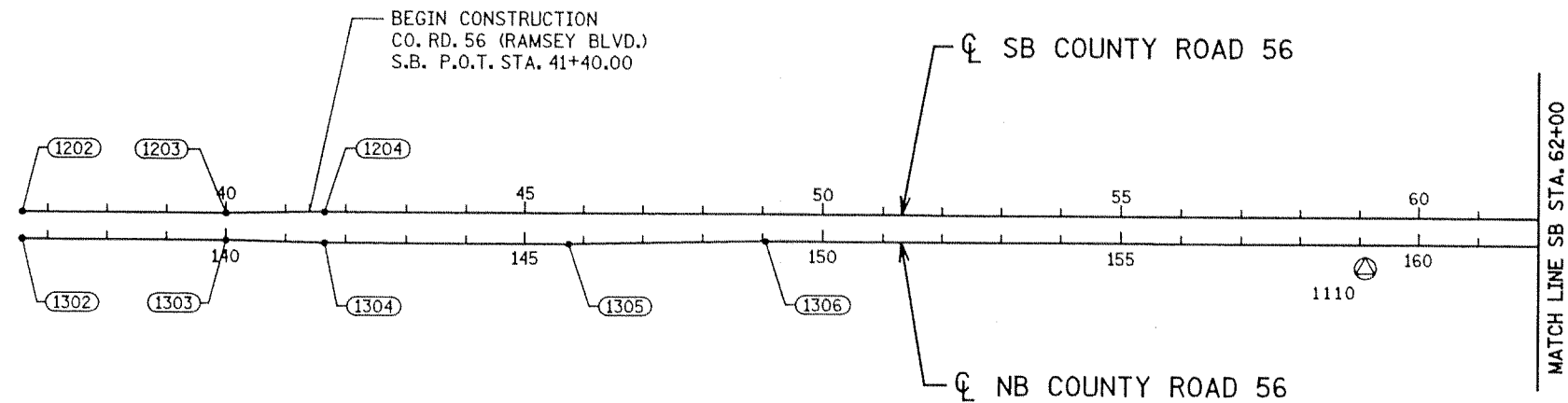
1410	POT	1065+99.98	451,658.057	173,736.448	90° 17' 06"
1411	POT	1071+40.37	452,198.438	173,733.761	89° 08' 21"
1412	POT	1072+40.39	452,298.446	173,735.264	90° 17' 06"
1413	POT	1077+77.97	452,836.024	173,732.591	89° 55' 58"
1414	POT	1083+15.95	453,374.000	173,733.221	91° 04' 43"
1415	POT	1087+16.03	453,774.009	173,725.691	89° 55' 58"
1416	POT	1090+16.03	454,074.009	173,726.042	

EB COUNTY ROAD 116

1420	POT	2065+99.94	451,657.878	173,700.448	90° 17' 06"
1421	POT	2067+91.66	451,849.592	173,699.495	91° 25' 50"
1422	POT	2070+91.72	452,149.559	173,692.003	90° 17' 06"
1423	POT	2077+78.23	452,836.060	173,688.590	89° 55' 58"
1424	POT	2083+16.22	453,374.052	173,689.221	88° 47' 13"
1425	POT	2089+16.34	453,974.037	173,701.925	89° 55' 58"
1426	POT	2090+16.34	454,074.037	173,702.042	

MODULAR BLOCK WALL

1601	POT	6+27.64	452,772.297	173,785.623	36° 26' 23"
1602	POT	6+32.15	452,774.977	173,789.253	359° 57' 11"
1603	POT	7+63.00	452,774.870	173,920.101	269° 57' 11"
1604	POT	7+76.09	452,761.779	173,920.090	



DATE: 3/2/2006 TIME: 3:18:58 PM
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DRAWN BY: TJV

CHECKED BY: JMW

CERTIFIED BY

James W. Jones
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

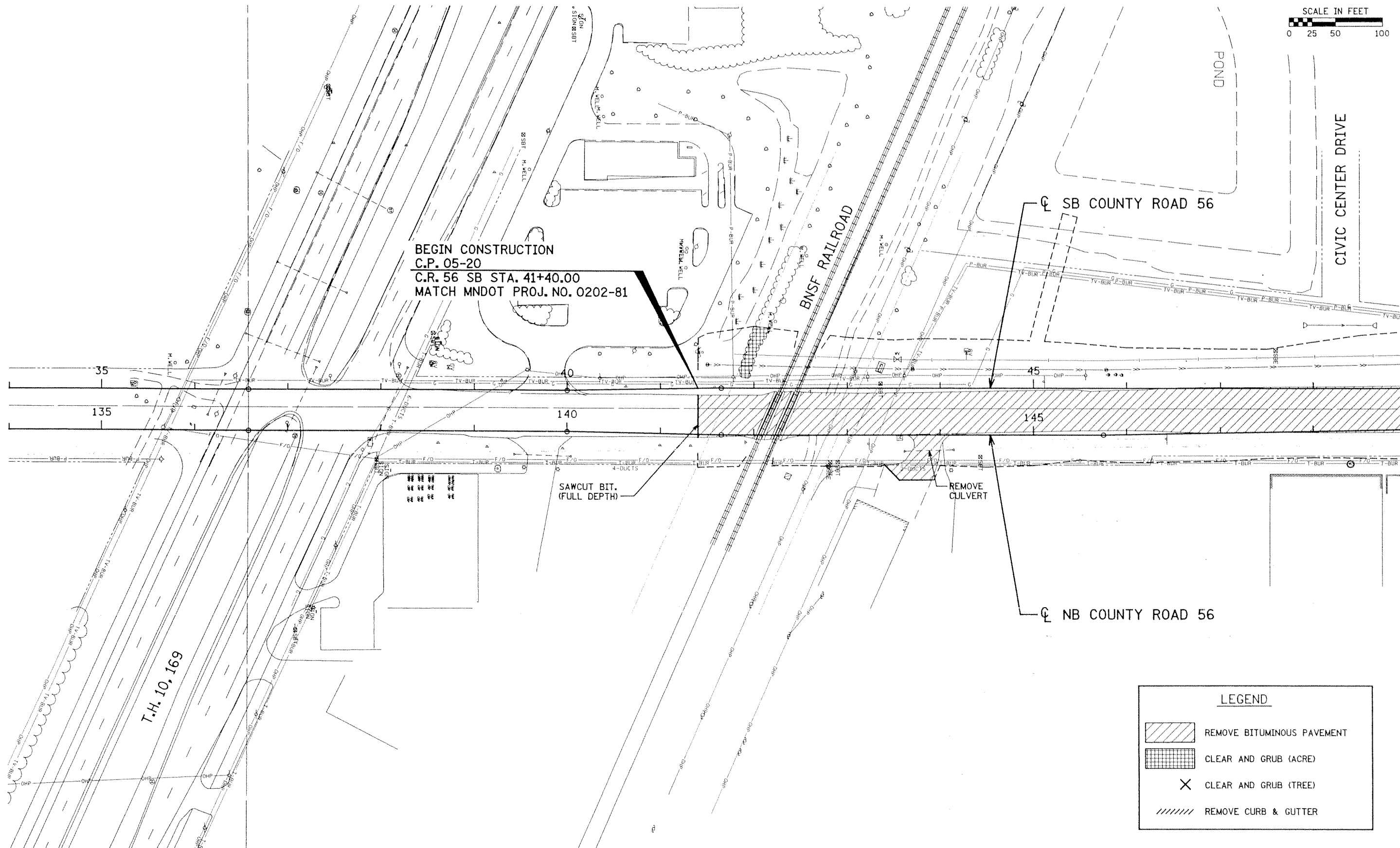
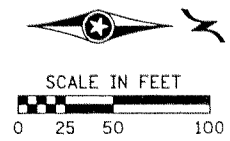
TKDA

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ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

ALIGNMENT PLAN AND TABULATIONS

C.P. 05-20

Sheet No. 18 of 94 Sheets



BEGIN CONSTRUCTION
 C.P. 05-20
 C.R. 56 SB STA. 41+40.00
 MATCH MNDOT PROJ. NO. 0202-81

LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	CLEAR AND GRUB (ACRE)
	CLEAR AND GRUB (TREE)
	REMOVE CURB & GUTTER

DATE: 3/2/2006 TIME: 3:32:58 PM
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 CHECKED BY: JMW

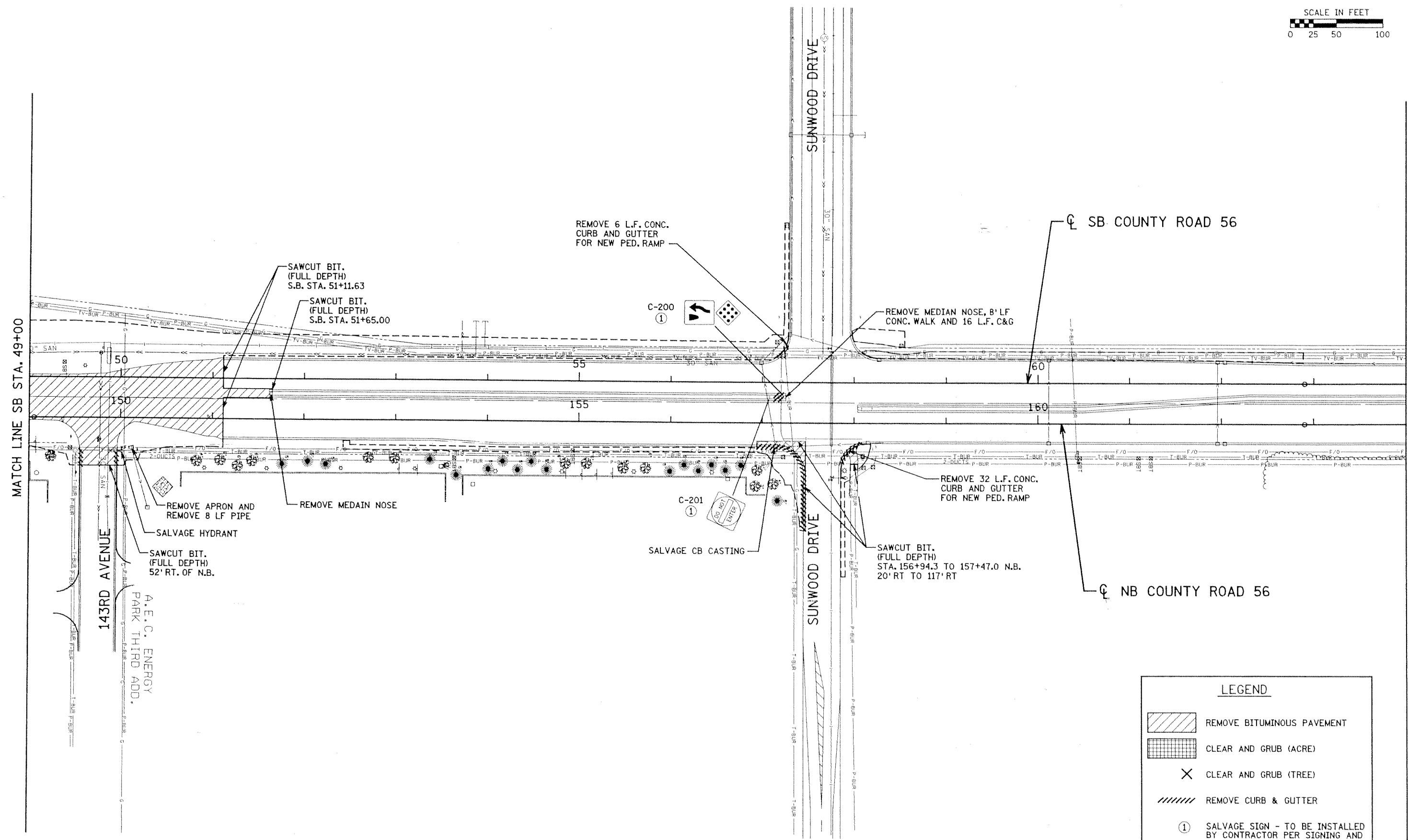
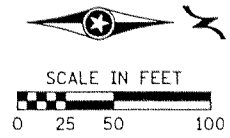
CERTIFIED BY: *Joseph Whelan*
 LICENSED PROFESSIONAL ENGINEER LIC. NO. 22405 DATE 3-1-06

TKDA
 TOLTZ, KING, DIVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
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INPLACE TOPOGRAPHY AND REMOVAL PLAN
 SB STA. 35+00 TO SB STA. 49+00

C.P. 05-20
 Sheet No. 19 of 94 Sheets

MATCH LINE SB STA. 49+00



LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	CLEAR AND GRUB (ACRE)
	CLEAR AND GRUB (TREE)
	REMOVE CURB & GUTTER
	SALVAGE SIGN - TO BE INSTALLED BY CONTRACTOR PER SIGNING AND STRIPING PLAN

DATE: 3/12/2006 TIME: 3:33:02 PM
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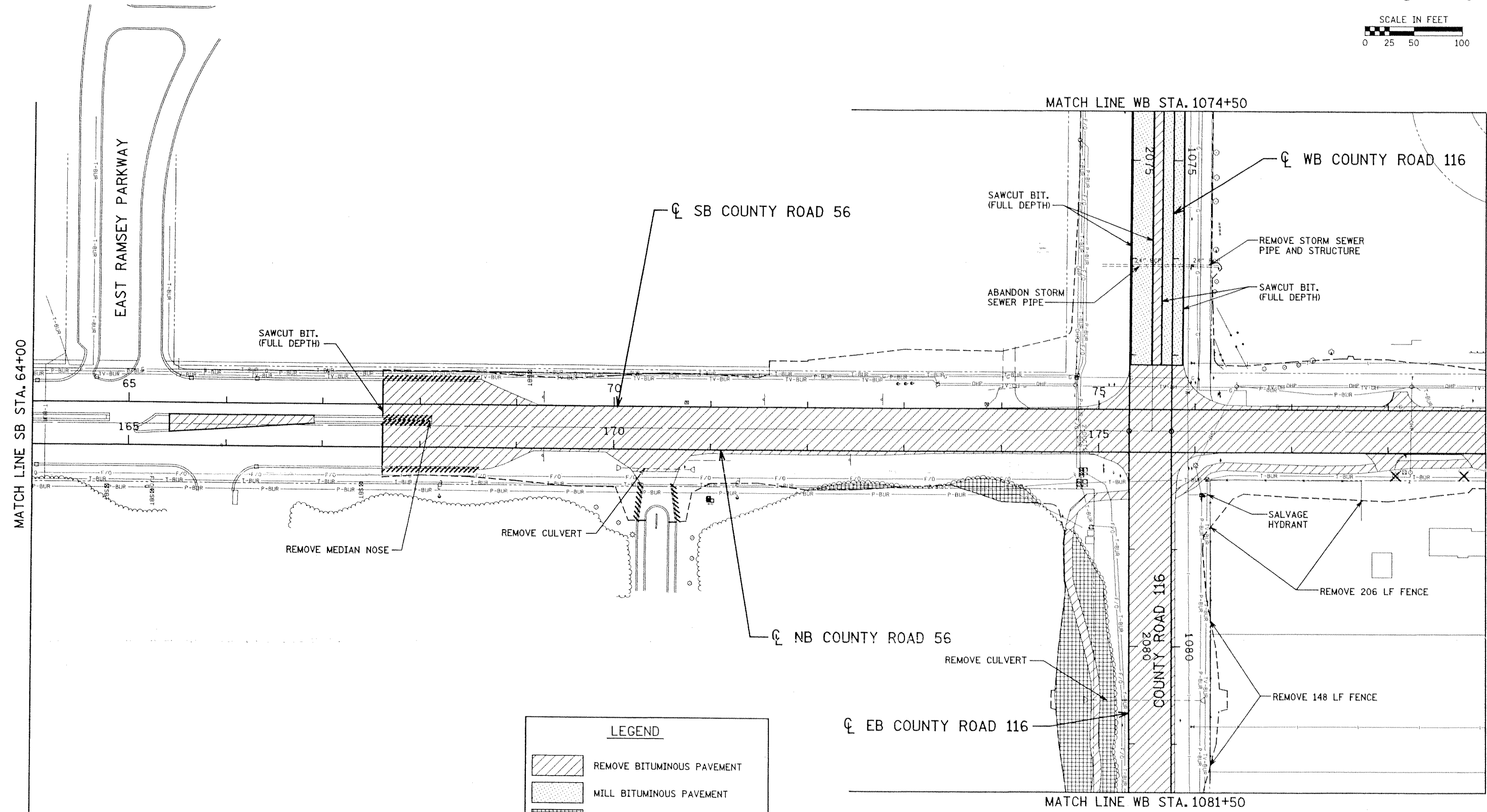
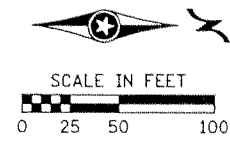
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 CHECKED BY: JMW

CERTIFIED BY *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
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 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

INPLACE TOPOGRAPHY AND REMOVAL PLAN
 SB STA. 49+00 TO SB STA. 64+00

C.P. 05-20
 Sheet No. 20 of 94 Sheets



LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	MILL BITUMINOUS PAVEMENT
	CLEAR AND GRUB (ACRE)
	CLEAR AND GRUB (TREE)
	REMOVE CURB & GUTTER

DATE: 3/12/2006 TIME: 3:33:06 PM
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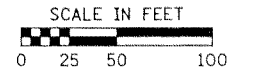
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 CHECKED BY: JMW

CERTIFIED BY *Jesse Weaver* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
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INPLACE TOPOGRAPHY AND REMOVAL PLAN
 SB STA. 64+00 TO SB STA. 79+00

C.P. 05-20
 Sheet No. 21 of 94 Sheets



RHINESTONE STREET

WB COUNTY ROAD 116

BEGIN CONSTRUCTION
C.P. 05-20
C.R. 116 WB STA. 1067+91.66

SAWCUT BIT. (FULL DEPTH)
1' FROM INPLACE EDGE

1070

2070

SAWCUT BIT. (FULL DEPTH)
1' FROM INPLACE EDGE

SAWCUT BIT. (FULL DEPTH)

REMOVE CULVERT

EB COUNTY ROAD 116

MATCH LINE WB STA. 1074+50

LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	MILL BITUMINOUS PAVEMENT
	CLEAR AND GRUB (ACRE)
	CLEAR AND GRUB (TREE)
	REMOVE CURB & GUTTER

DATE: 3/2/2006 TIME: 3:33:13 PM
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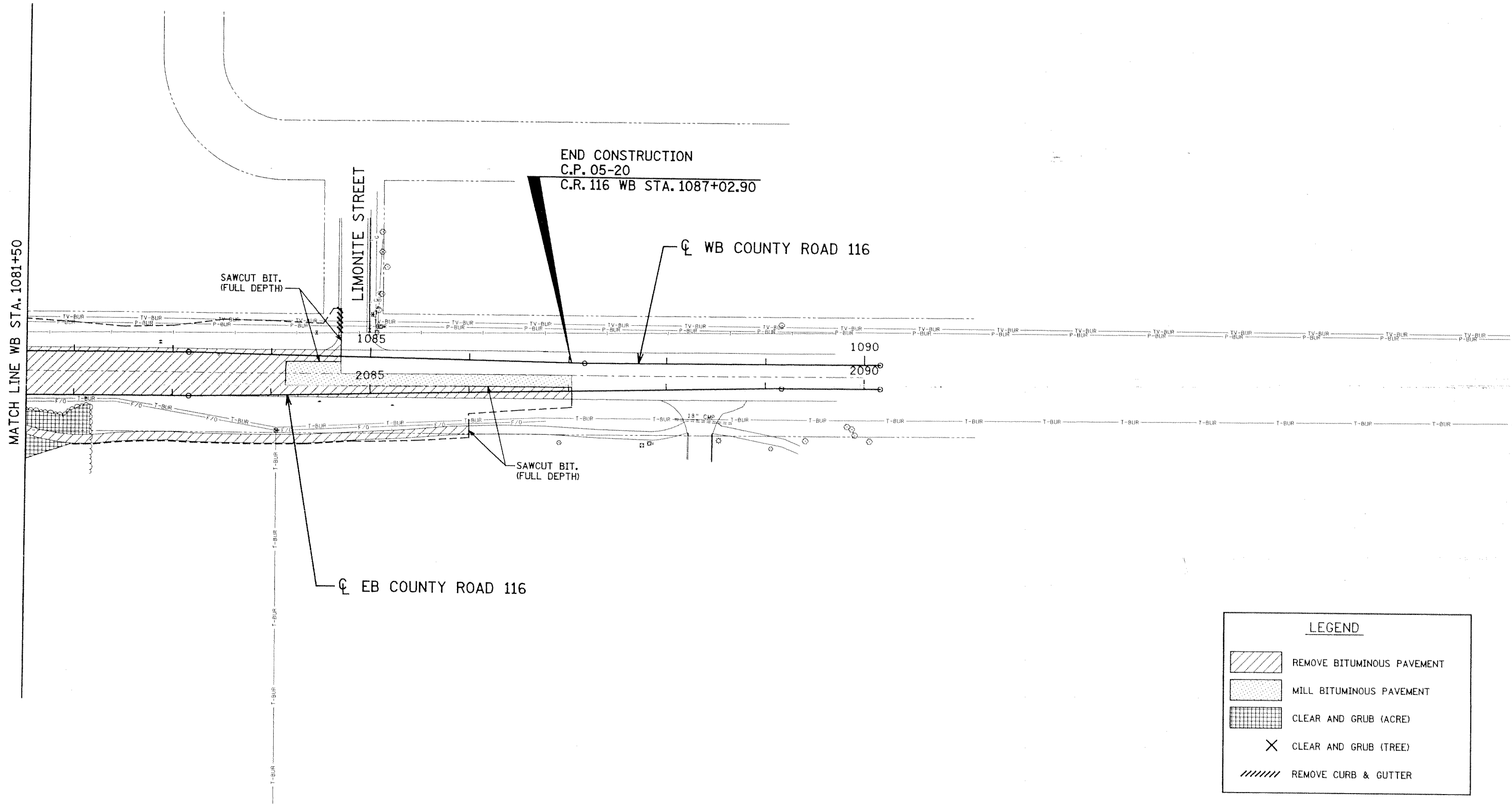
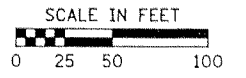
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CHECKED BY: JMW

CERTIFIED BY: *Joseph Weaver* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
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ENGINEERS • ARCHITECTS • PLANNERS SAINT PAUL, MINNESOTA

INPLACE TOPOGRAPHY AND REMOVAL PLAN
WB STA. 1065+00 TO SB STA. 1074+50

C.P. 05-20
Sheet No. 23 of 94 Sheets



LEGEND	
	REMOVE BITUMINOUS PAVEMENT
	MILL BITUMINOUS PAVEMENT
	CLEAR AND GRUB (ACRE)
	CLEAR AND GRUB (TREE)
	REMOVE CURB & GUTTER

DATE: 3/2/2006 TIME: 3:33:17 PM
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DRAWN BY: TJV
 CHECKED BY: JMW

CERTIFIED BY: *Joseph W. ...*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

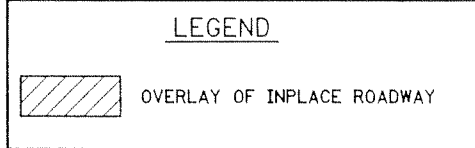
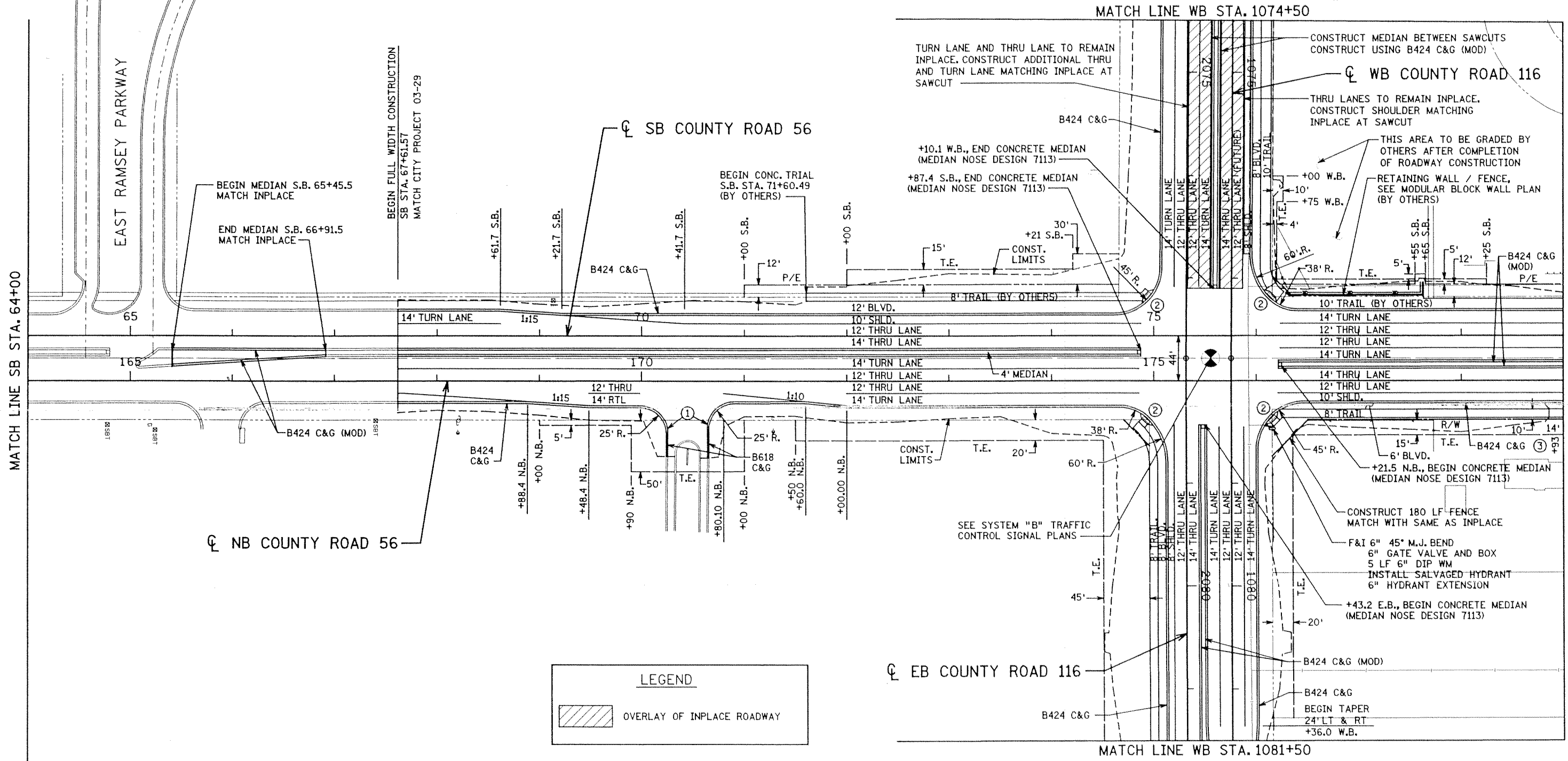
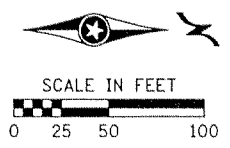
TKDA
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 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

INPLACE TOPOGRAPHY AND REMOVAL PLAN
 WB STA. 1081+00 TO SB STA. 1090+00

C.P. 05-20
 Sheet No. 24 of 94 Sheets

DATE: 3/2/2006 TIME: 3:19:09 PM
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BM 1110 ELEV. 868.08
 IRON PIPE
 EB STA. 159+09.65 83' RT.



- LEGEND:**
- ① 10' TRANSITION CURB FROM B424 C&G TO B612 C&G SEE MISCELLANEOUS DETAILS.
 - ② CONSTRUCT PEDESTRIAN CURB RAMP (DESIGN 7036)
 - ③ CONSTRUCT CONCRETE DRIVEWAY APRON SEE MISCELLANEOUS DETAILS.
- NOTES:**
- ALL DIMENSIONS ARE TO FACE OF CURB.
 - SEE INTERSECTION DETAILS FOR DATA POINTS.

DRAWN BY: TJV
 CHECKED BY: JMW

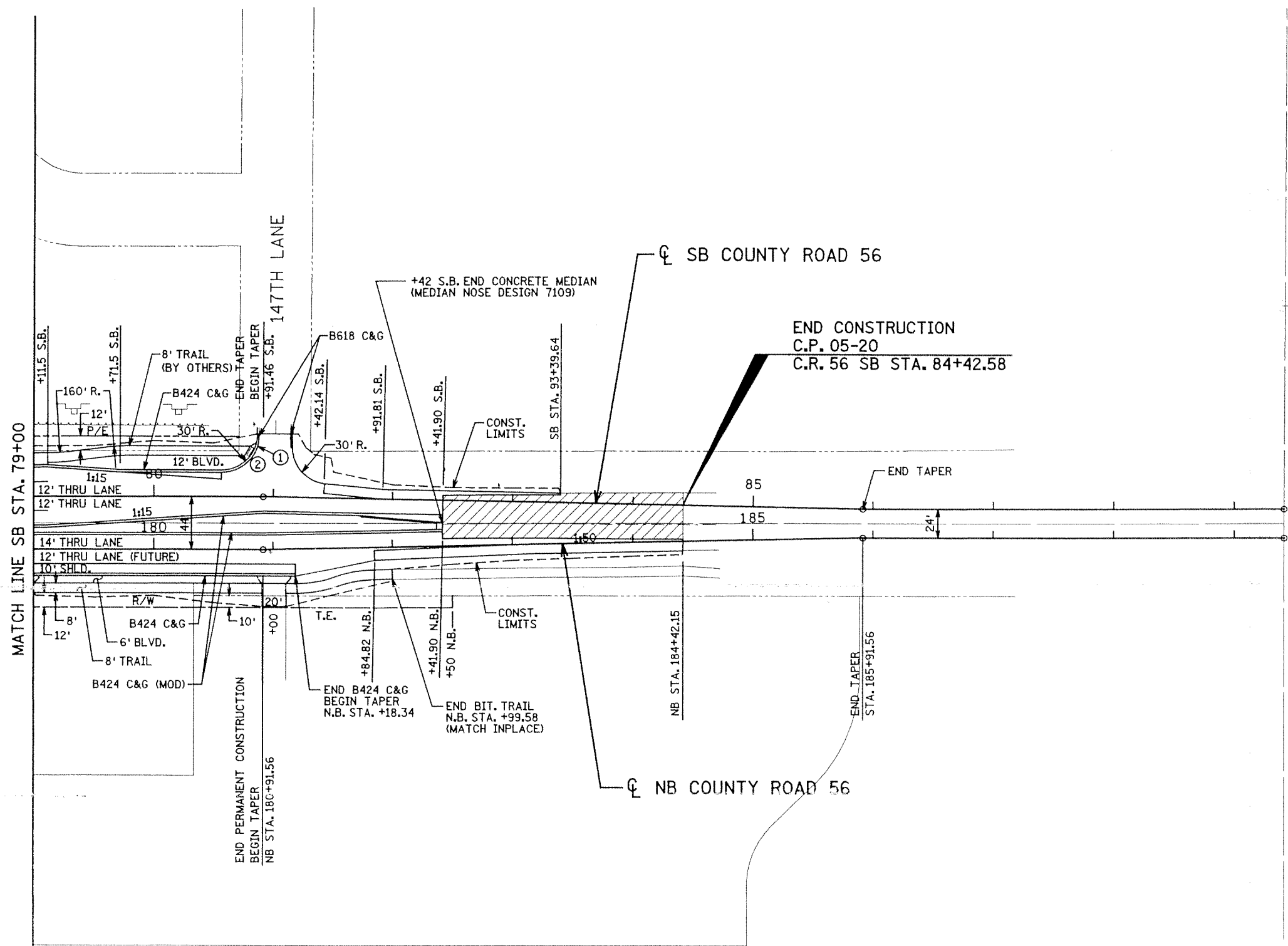
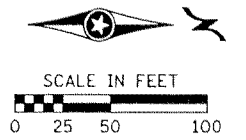
CERTIFIED BY *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
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CONSTRUCTION PLAN
 SB STA. 64+00 TO SB STA. 79+00

C.P. 05-20
 Sheet No. 27 of 94 Sheets

BM 1110 ELEV. 868.08
 IRON PIPE
 EB STA. 159+09.65 83' RT.



MATCH LINE SB STA. 79+00

DATE: 3/2/2006 TIME: 3:19:13 PM
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LEGEND

OVERLAY OF INPLACE ROADWAY

NOTES:

- ① 10' TRANSITION CURB FROM B424 C&G TO B618 C&G SEE MISCELLANEOUS DETAILS.
- ② CONSTRUCT PEDESTRIAN CURB RAMP (DESIGN 7036)

GENERAL NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB.
- SEE INTERSECTION DETAILS FOR DATA POINTS.

DRAWN BY: TJV
 CHECKED BY: JMW

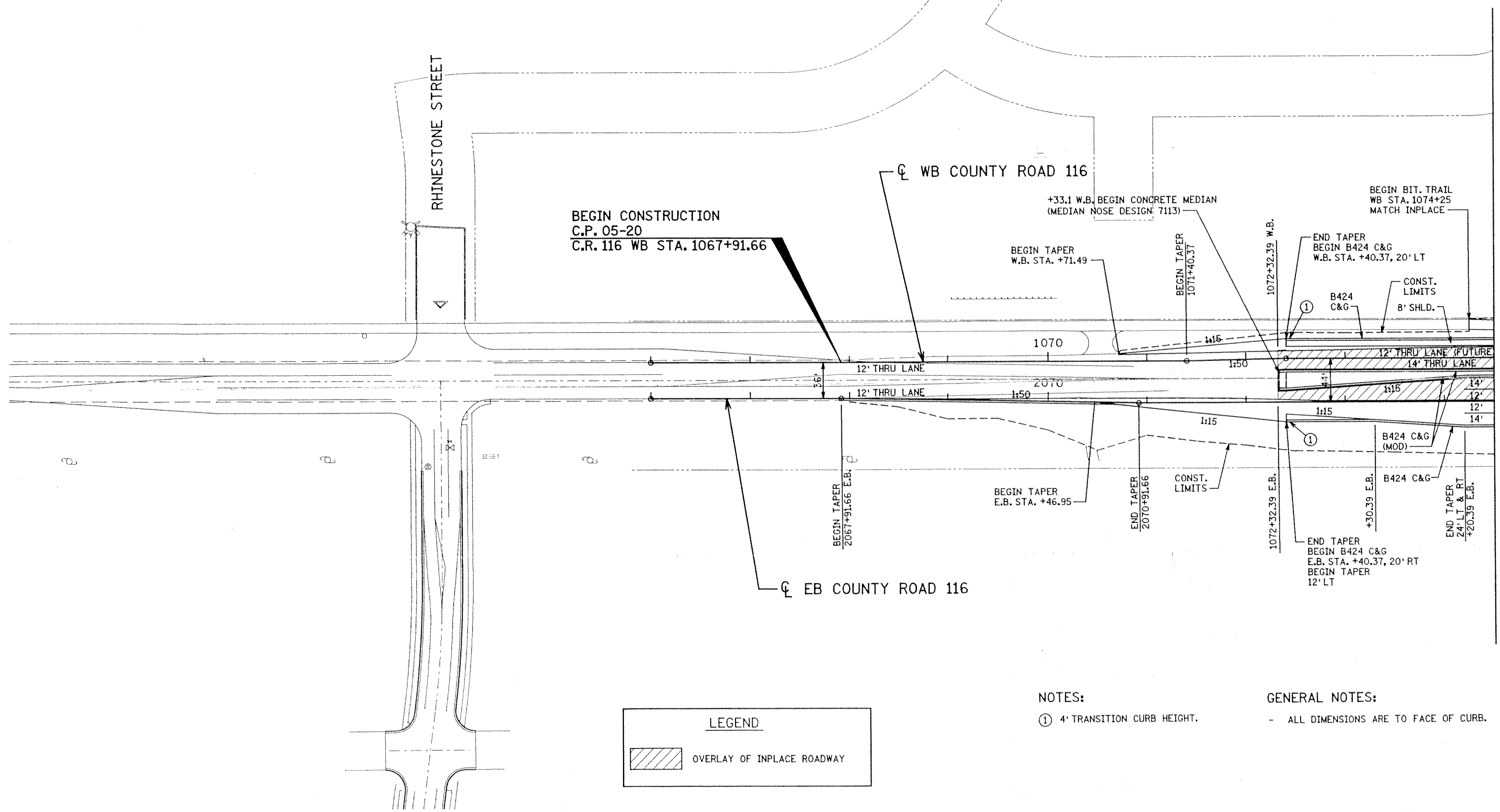
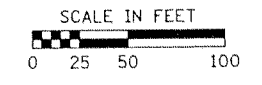
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 LICENSED PROFESSIONAL ENGINEER

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CONSTRUCTION PLAN
 SB STA. 79+00 TO SB STA. 89+00

C.P. 05-20
 Sheet No. 28 of 94 Sheets

BM 1110 ELEV. 868.08
 IRON PIPE
 EB STA. 159+09.65 83' RT.



LEGEND

OVERLAY OF INPLACE ROADWAY

NOTES:

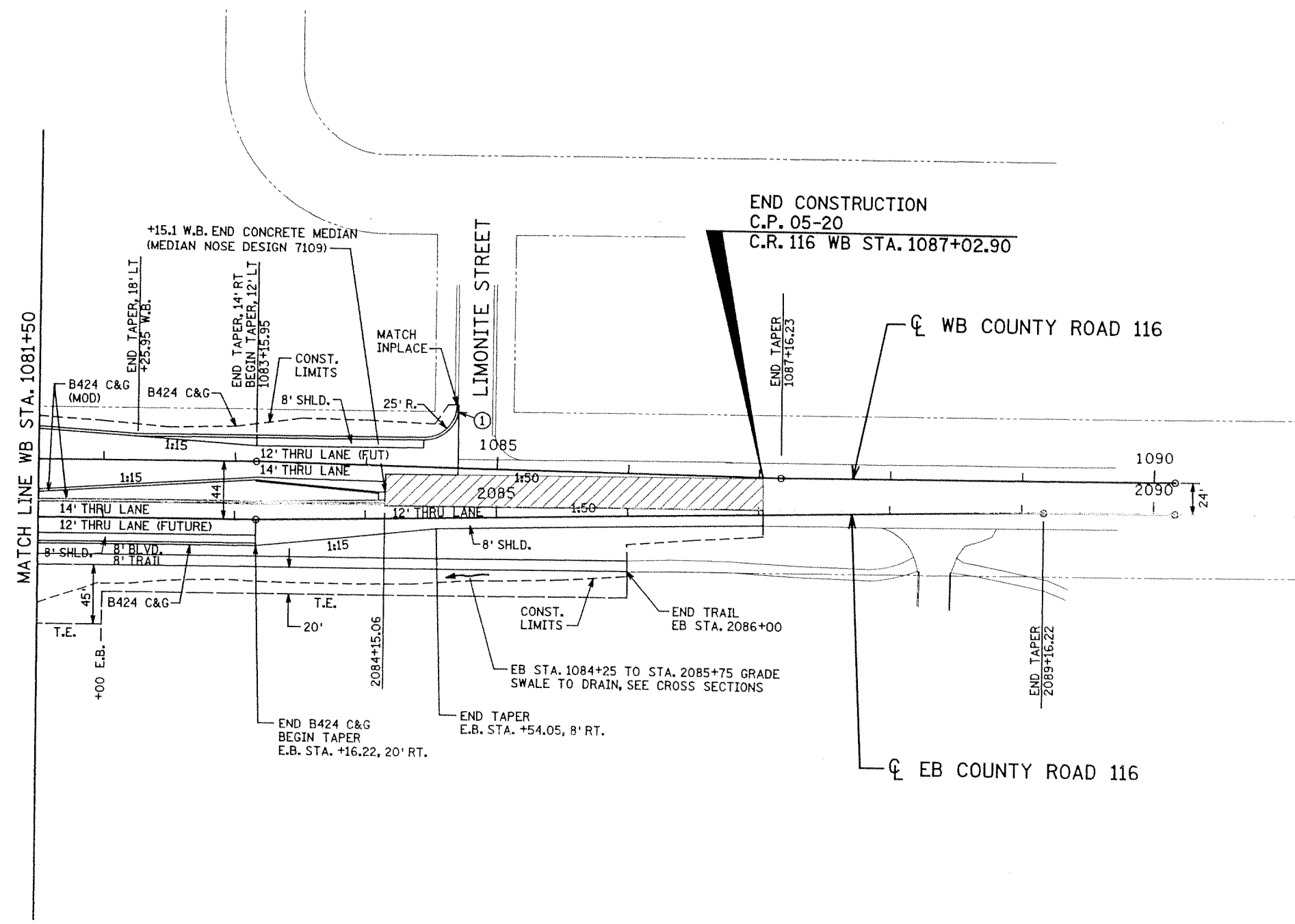
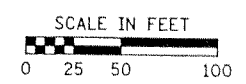
- ① 4' TRANSITION CURB HEIGHT.

GENERAL NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB.

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BM 1110 ELEV. 868.08
 IRON PIPE
 EB STA. 159+09.65 83' RT.



LEGEND

OVERLAY OF INPLACE ROADWAY

NOTES:

① 10' TRANSITION CURB FROM B424 C&G TO D412 C&G (INPLACE). SEE MISCELLANEOUS DETAILS.

GENERAL NOTES:

- ALL DIMENSIONS ARE TO FACE OF CURB.

DATE: 3/2/2006 TIME: 3:19:20 PM
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DRAWN BY: TJV
 CHECKED BY: JMW

CERTIFIED BY *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

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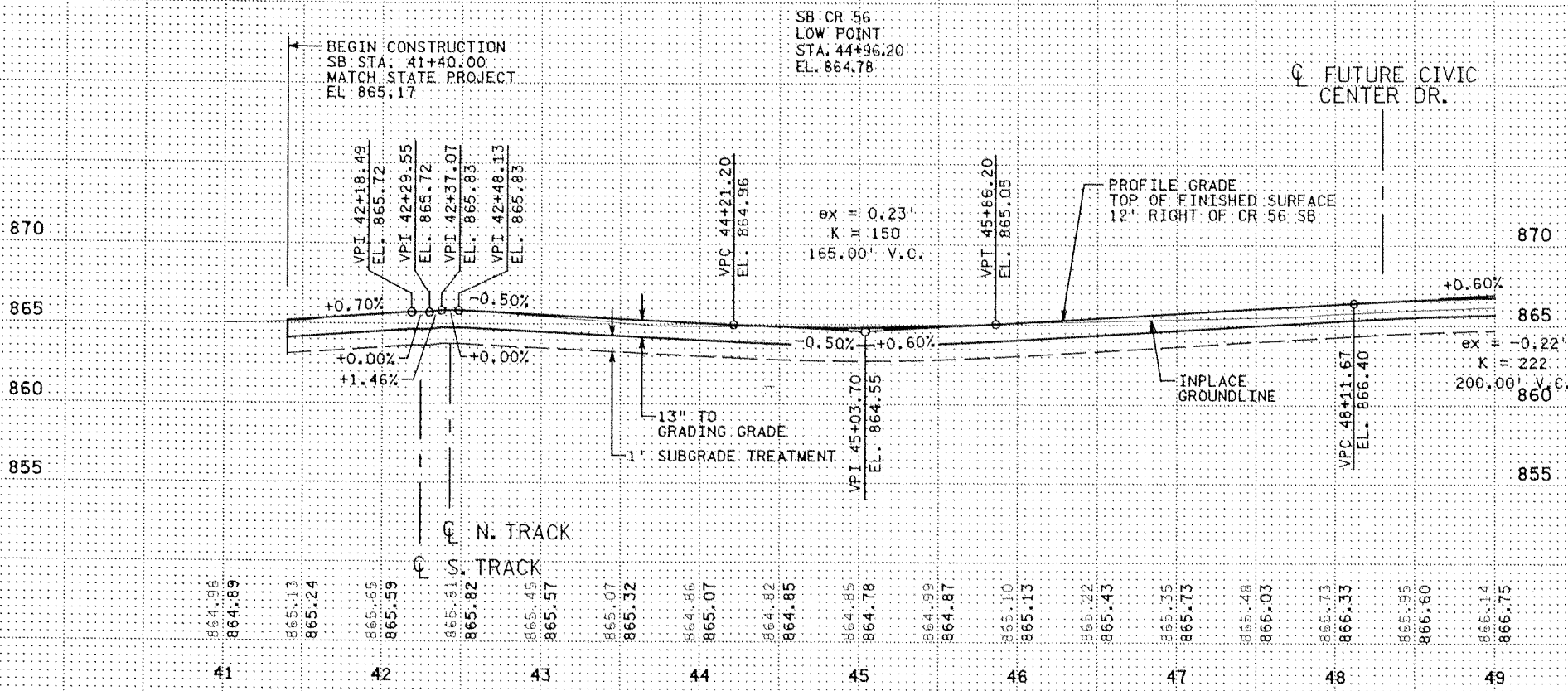
CONSTRUCTION PLAN
 WB STA. 1081+00 TO SB STA. 1090+00

C.P. 05-20
 Sheet No. 30 of 94 Sheets

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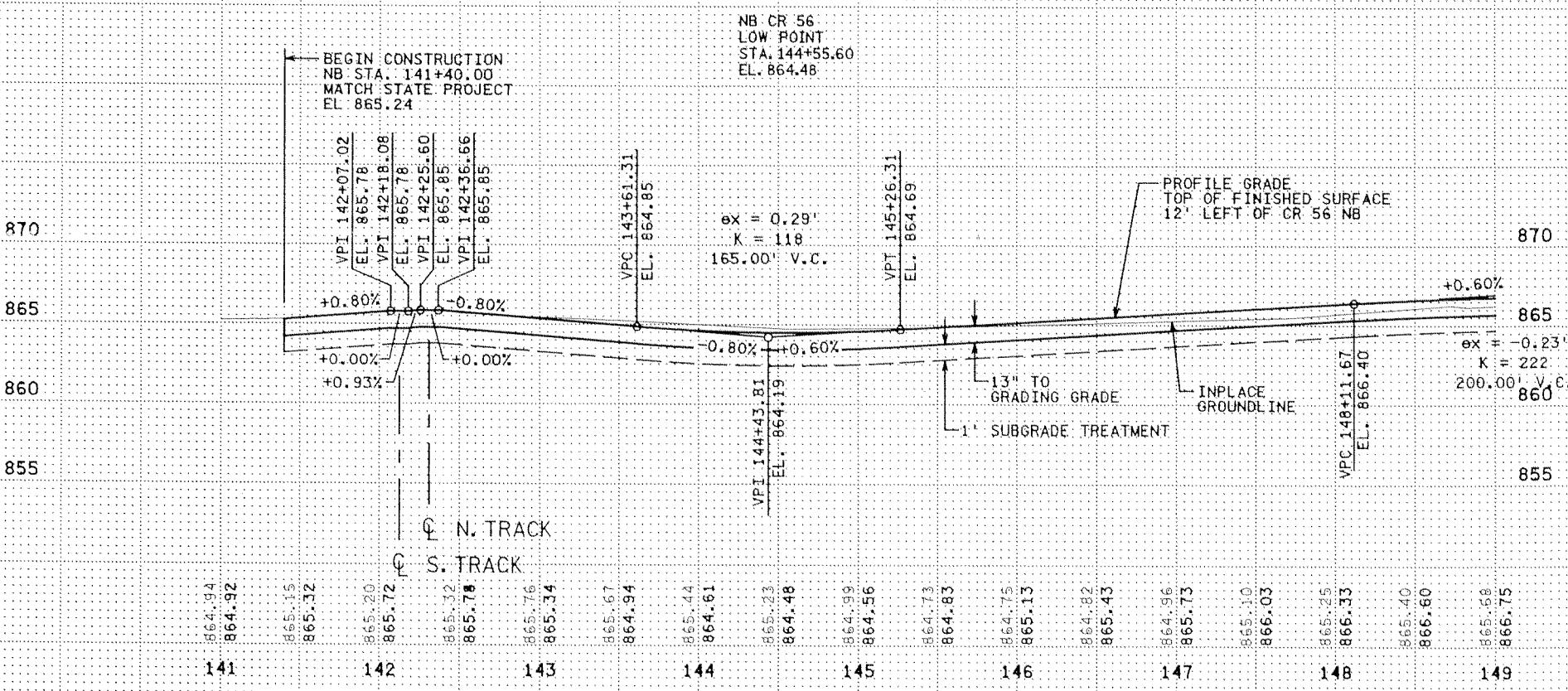
SB COUNTY ROAD 56

← TRAFFIC



NB COUNTY ROAD 56

→ TRAFFIC



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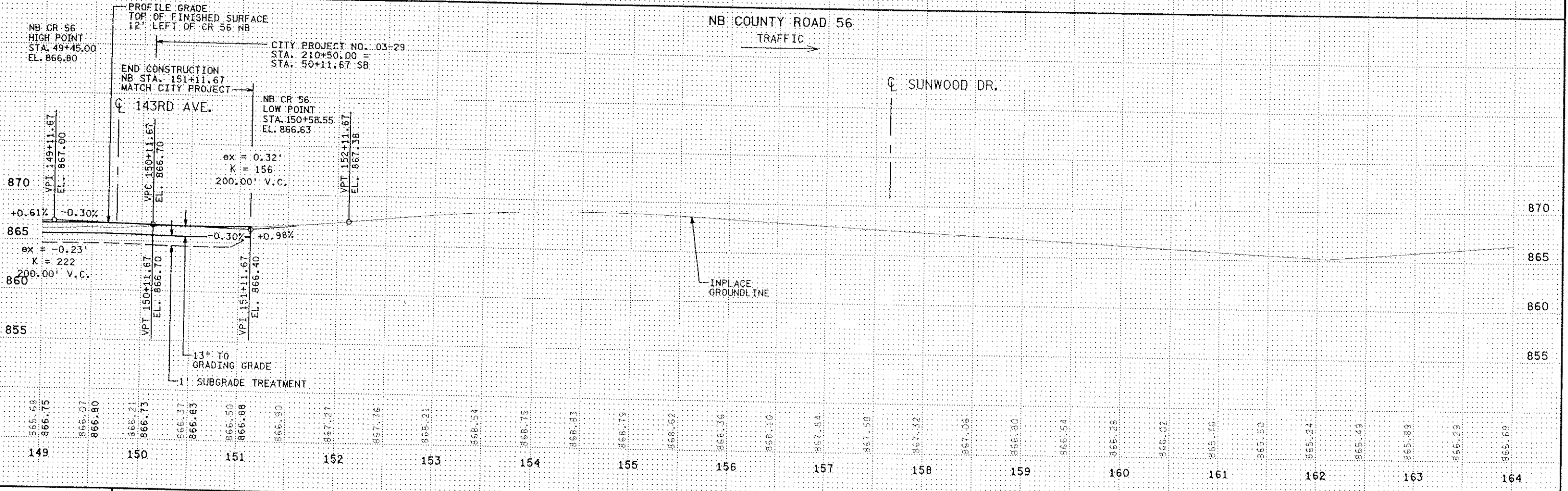
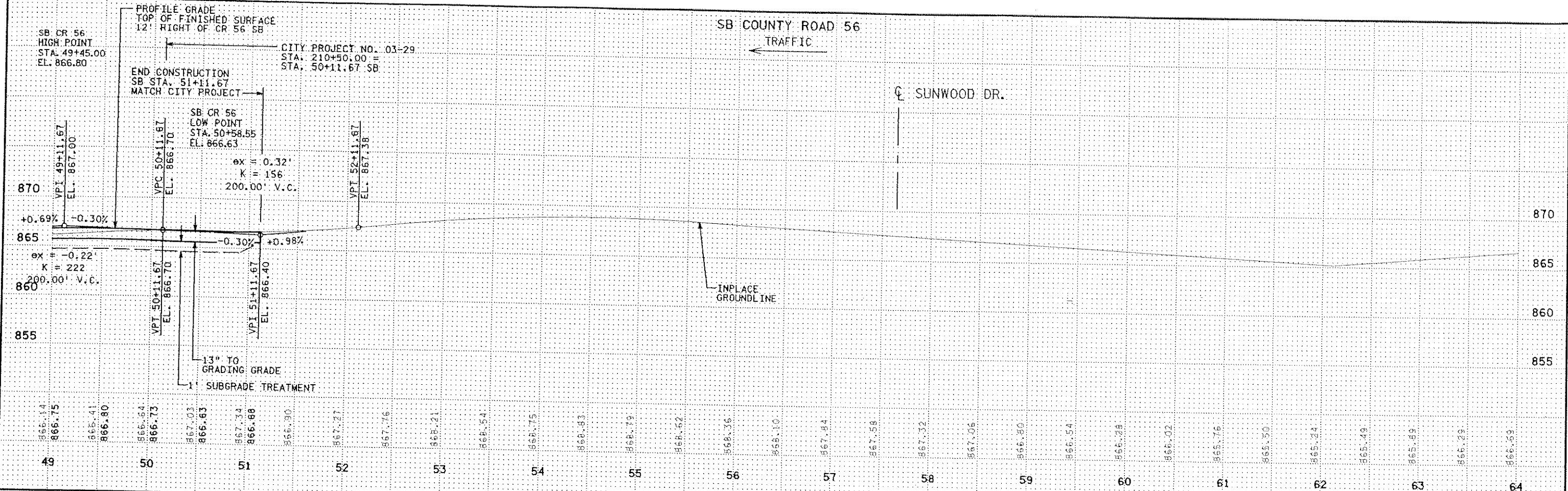
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 LICENSED PROFESSIONAL ENGINEER

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PROFILES
 SB STA. 41+00 TO SB STA. 49+00

C.P. 05-20
 Sheet No. 31 of 94 Sheets

DATE: 3/2/2006 TIME: 3:23:48 PM
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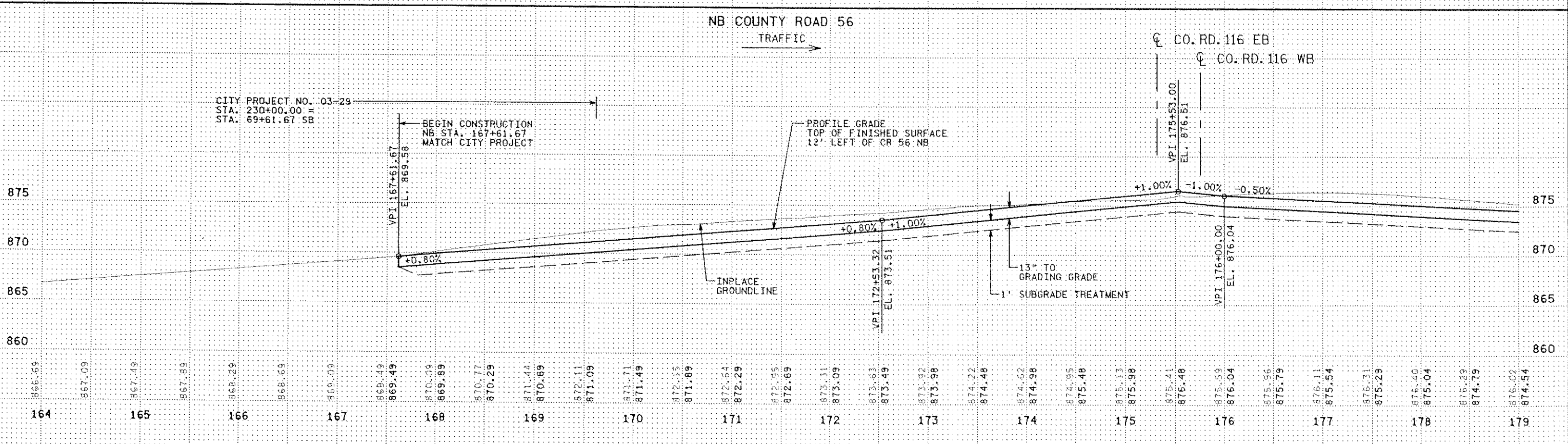
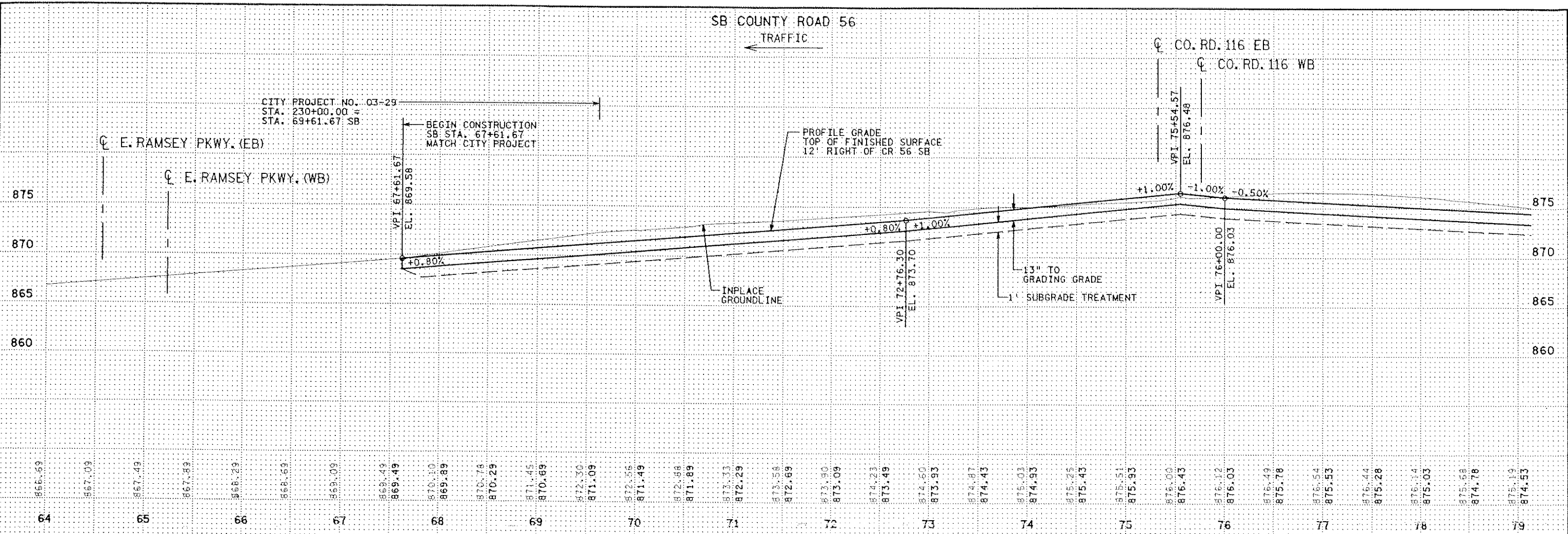
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 LICENSED PROFESSIONAL ENGINEER

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PROFILES
 SB STA. 49+00 TO SB STA. 64+00

C.P. 05-20
 Sheet No. 32 of 94 Sheets

DATE: 3/2/2006 TIME: 3:24:01 PM
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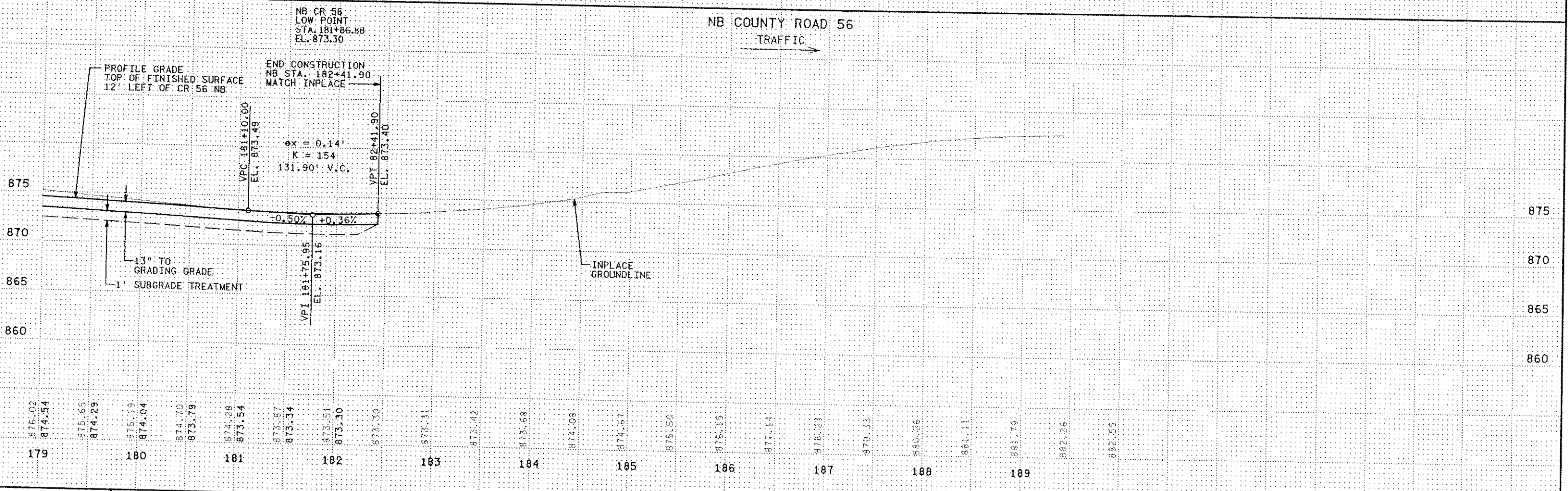
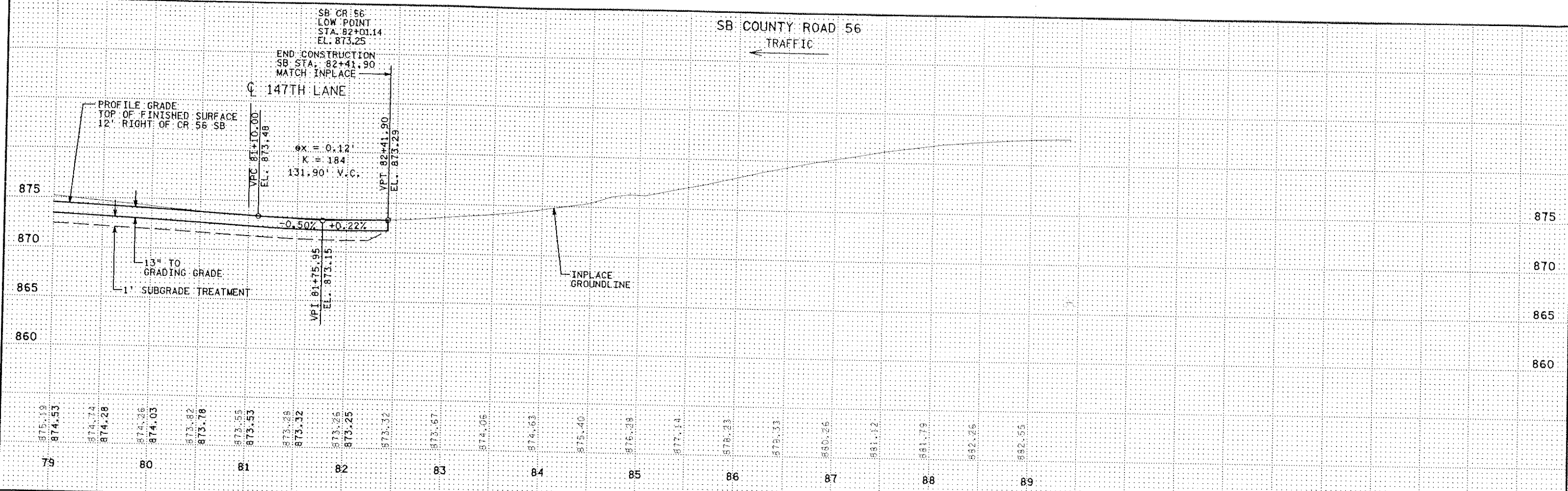
CERTIFIED BY *Joseph W. Jones*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

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PROFILES
 SB STA. 64+00 TO SB STA. 79+00

C.P. 05-20
 Sheet No. 33 of 94 Sheets

DATE: 3/2/2006 TIME: 3:24:05 PM
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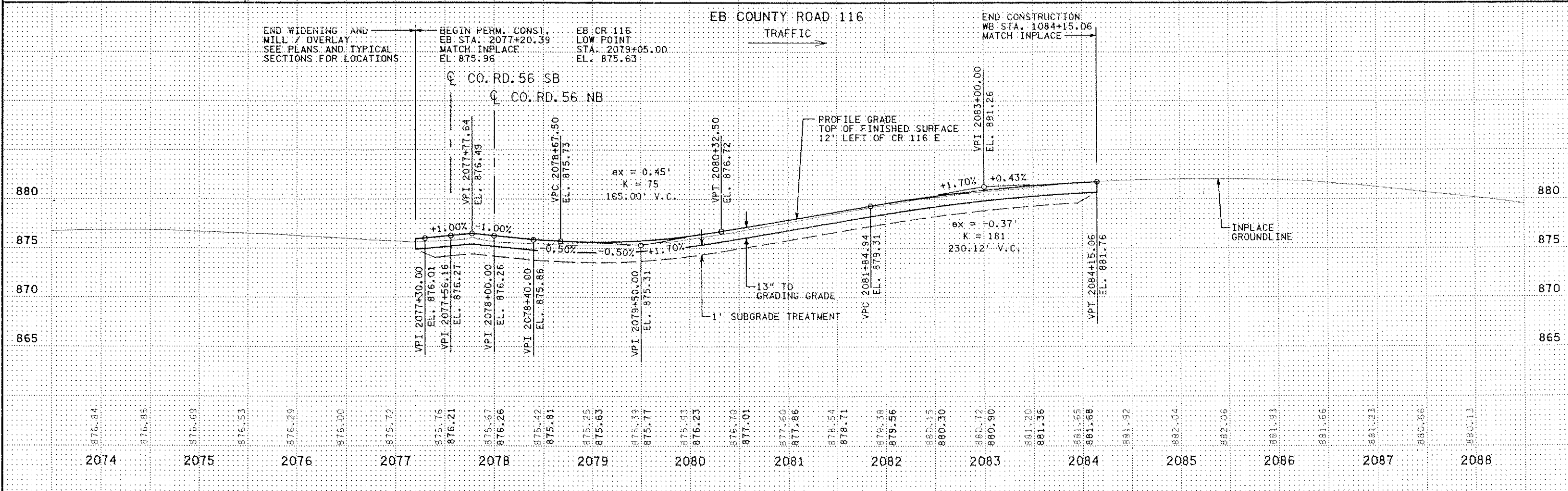
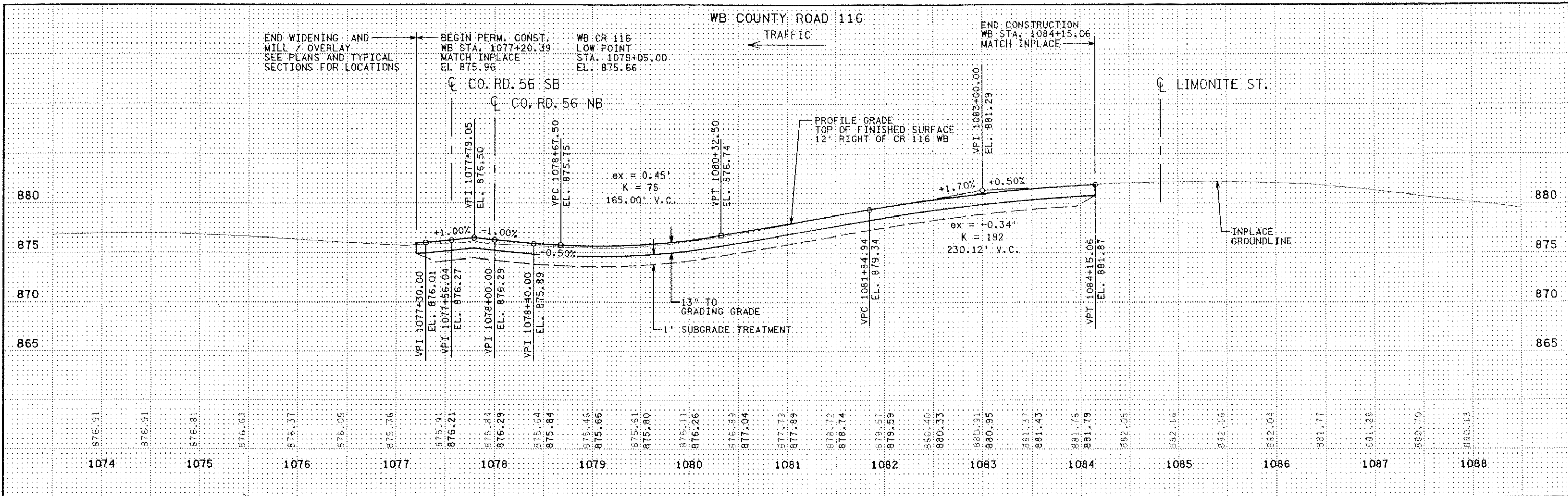
CERTIFIED BY: *James W. ...*
 LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

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PROFILES
 SB STA. 79+00 TO SB STA. 89+00

C.P. 05-20
 Sheet No. 34 of 94 Sheets

DATE: 3/2/2006 TIME: 3:24:28 PM
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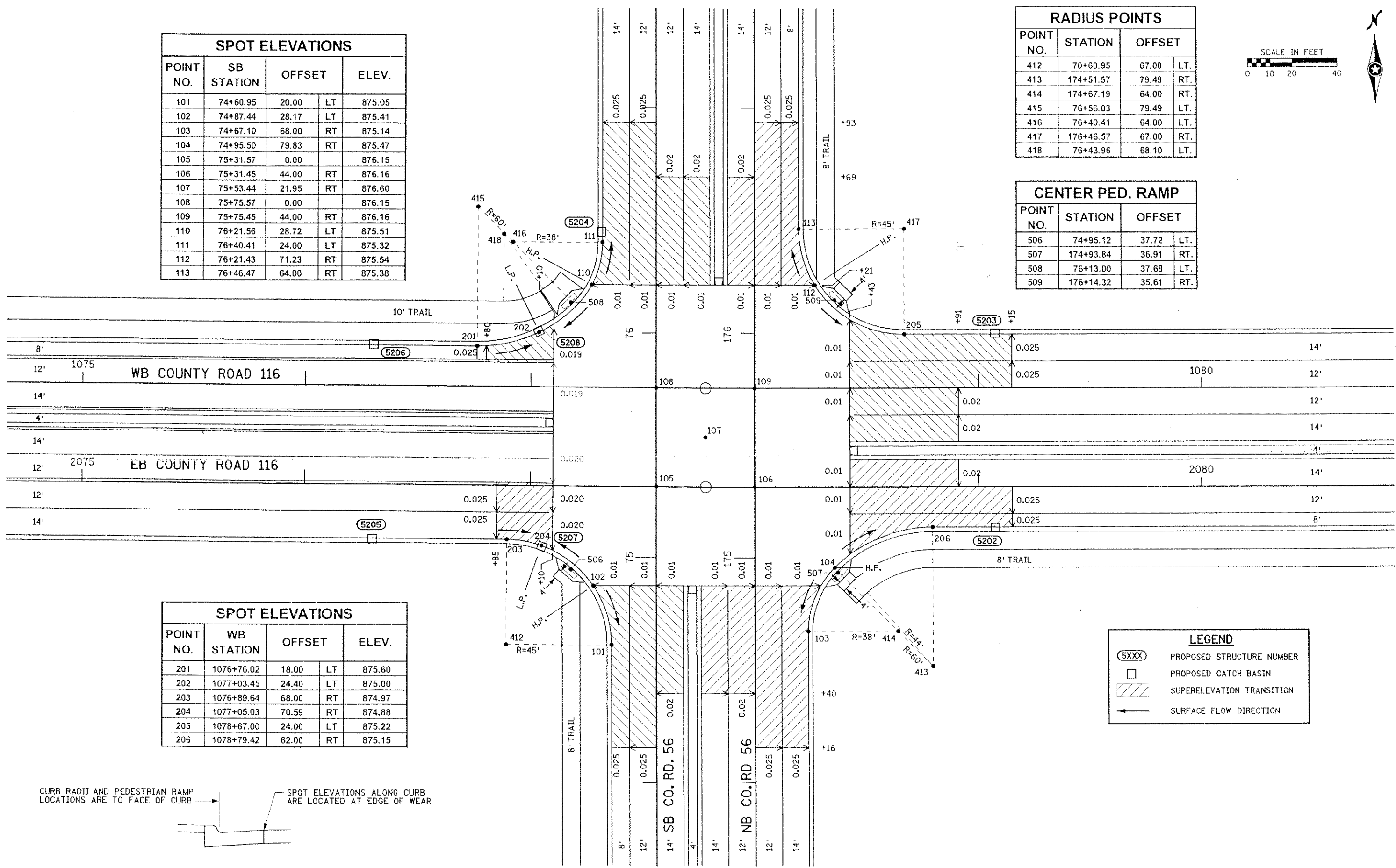
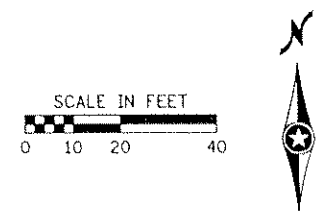


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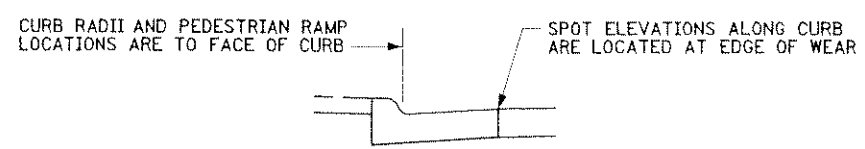
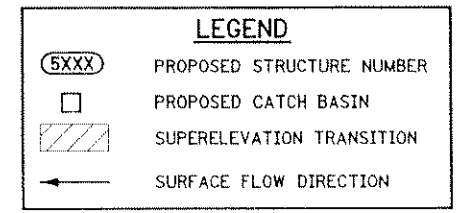
SPOT ELEVATIONS			
POINT NO.	SB STATION	OFFSET	ELEV.
101	74+60.95	20.00 LT	875.05
102	74+87.44	28.17 LT	875.41
103	74+67.10	68.00 RT	875.14
104	74+95.50	79.83 RT	875.47
105	75+31.57	0.00	876.15
106	75+31.45	44.00 RT	876.16
107	75+53.44	21.95 RT	876.60
108	75+75.57	0.00	876.15
109	75+75.45	44.00 RT	876.16
110	76+21.56	28.72 LT	875.51
111	76+40.41	24.00 LT	875.32
112	76+21.43	71.23 RT	875.54
113	76+46.47	64.00 RT	875.38

RADIUS POINTS			
POINT NO.	STATION	OFFSET	
412	70+60.95	67.00	LT.
413	174+51.57	79.49	RT.
414	174+67.19	64.00	RT.
415	76+56.03	79.49	LT.
416	76+40.41	64.00	LT.
417	176+46.57	67.00	RT.
418	76+43.96	68.10	LT.

CENTER PED. RAMP			
POINT NO.	STATION	OFFSET	
506	74+95.12	37.72	LT.
507	174+93.84	36.91	RT.
508	76+13.00	37.68	LT.
509	176+14.32	35.61	RT.



SPOT ELEVATIONS			
POINT NO.	WB STATION	OFFSET	ELEV.
201	1076+76.02	18.00 LT	875.60
202	1077+03.45	24.40 LT	875.00
203	1076+89.64	68.00 RT	874.97
204	1077+05.03	70.59 RT	874.88
205	1078+67.00	24.00 LT	875.22
206	1078+79.42	62.00 RT	875.15



DRAWN BY: TJV
 CHECKED BY: JMW

CERTIFIED BY: *Joseph W. ...* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

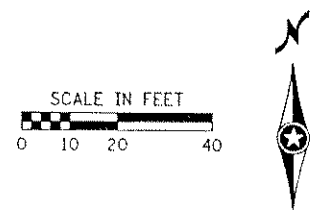
TKDA
 TOLTZ, KING, DUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

INTERSECTION DETAIL
 CR 56 (RAMSEY BLVD.) / CR 116 (BUNKER LAKE BLVD.)

C.P. 05-20
 Sheet No. 36 of 94 Sheets

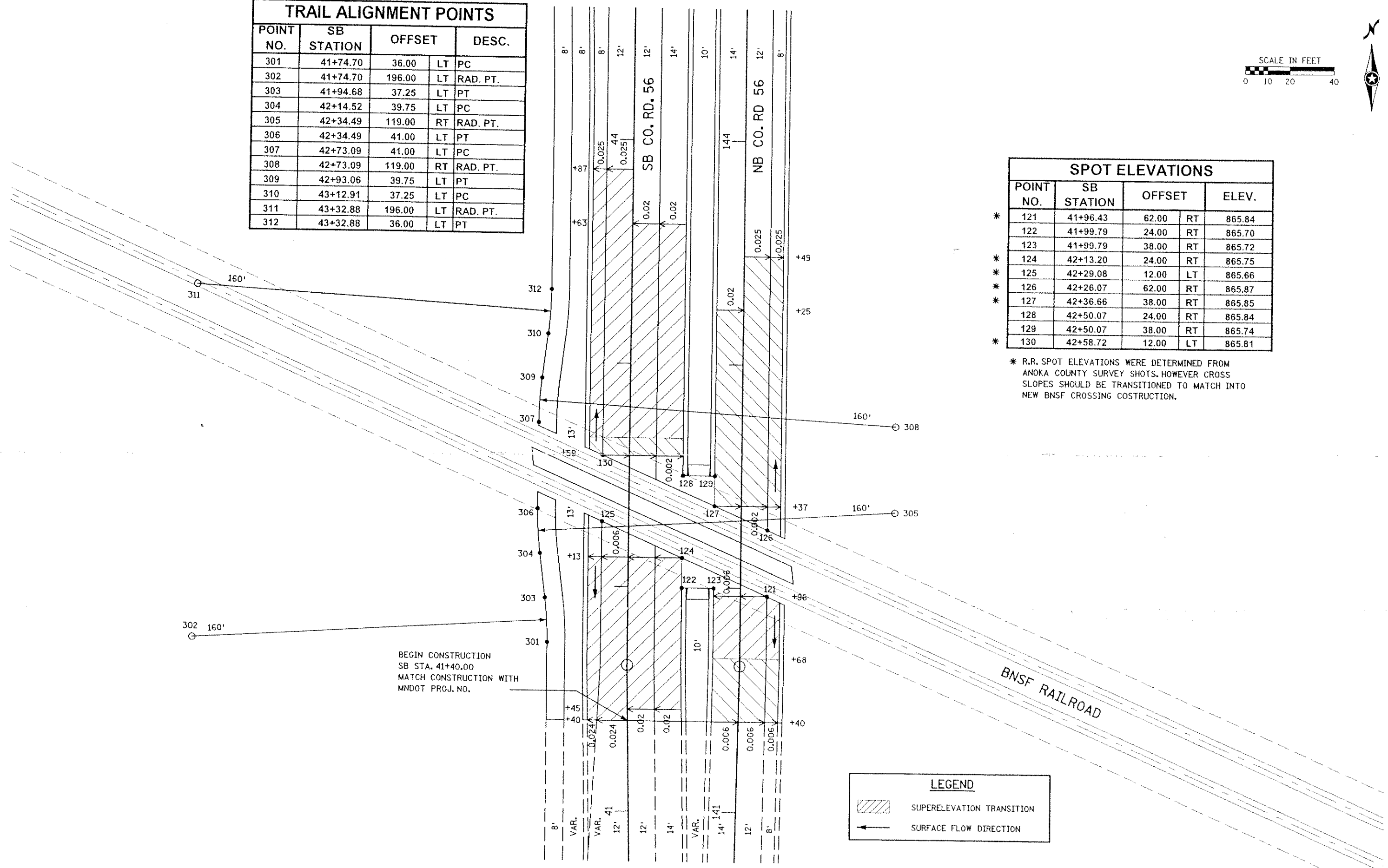
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TRAIL ALIGNMENT POINTS				
POINT NO.	SB STATION	OFFSET	DESC.	
301	41+74.70	36.00	LT	PC
302	41+74.70	196.00	LT	RAD. PT.
303	41+94.68	37.25	LT	PT
304	42+14.52	39.75	LT	PC
305	42+34.49	119.00	RT	RAD. PT.
306	42+34.49	41.00	LT	PT
307	42+73.09	41.00	LT	PC
308	42+73.09	119.00	RT	RAD. PT.
309	42+93.06	39.75	LT	PT
310	43+12.91	37.25	LT	PC
311	43+32.88	196.00	LT	RAD. PT.
312	43+32.88	36.00	LT	PT



SPOT ELEVATIONS					
POINT NO.	SB STATION	OFFSET		ELEV.	
*	121	41+96.43	62.00	RT	865.84
	122	41+99.79	24.00	RT	865.70
	123	41+99.79	38.00	RT	865.72
*	124	42+13.20	24.00	RT	865.75
*	125	42+29.08	12.00	LT	865.66
*	126	42+26.07	62.00	RT	865.87
*	127	42+36.66	38.00	RT	865.85
	128	42+50.07	24.00	RT	865.84
	129	42+50.07	38.00	RT	865.74
*	130	42+58.72	12.00	LT	865.81

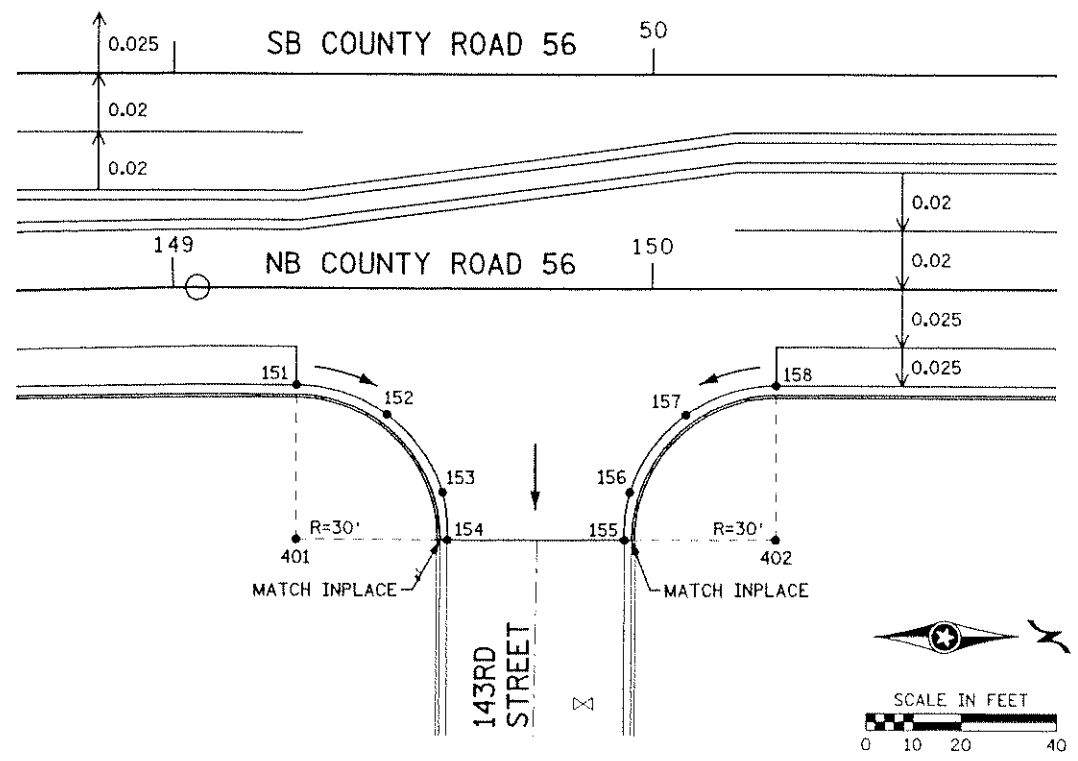
* R.R. SPOT ELEVATIONS WERE DETERMINED FROM ANOKA COUNTY SURVEY SHOTS. HOWEVER CROSS SLOPES SHOULD BE TRANSITIONED TO MATCH INTO NEW BNSF CROSSING COSTRUCTION.



LEGEND	
	SUPERELEVATION TRANSITION
	SURFACE FLOW DIRECTION

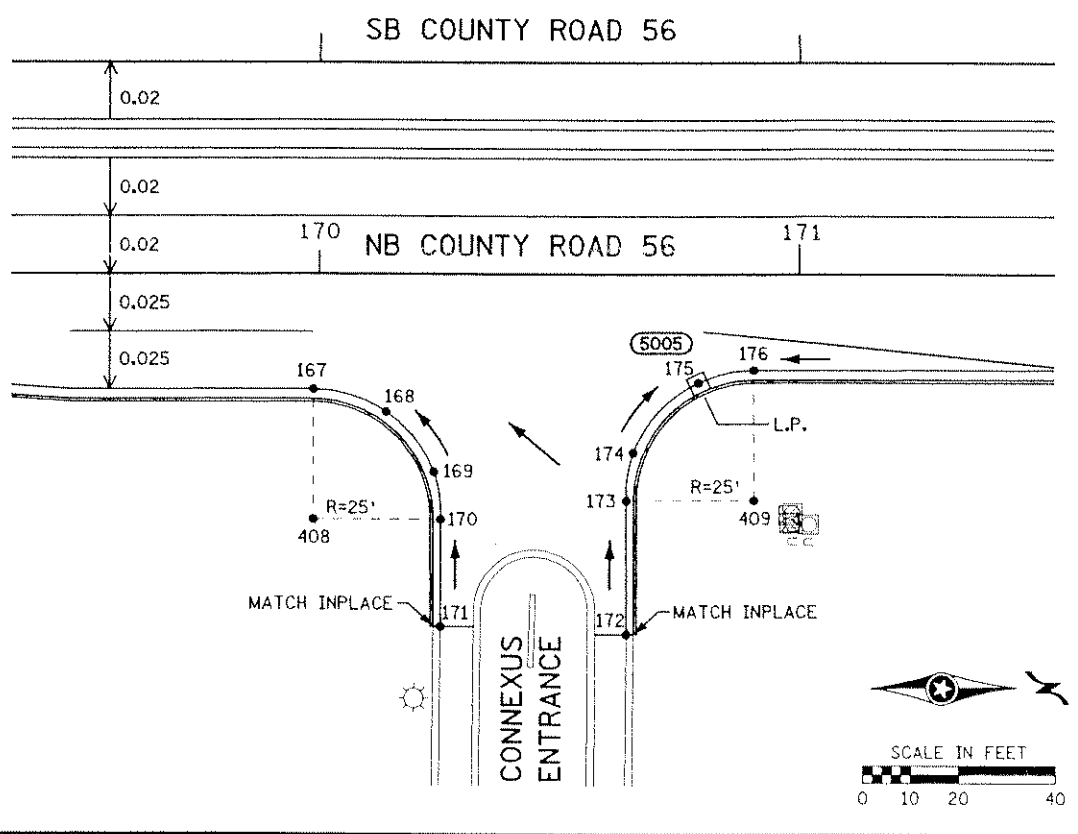
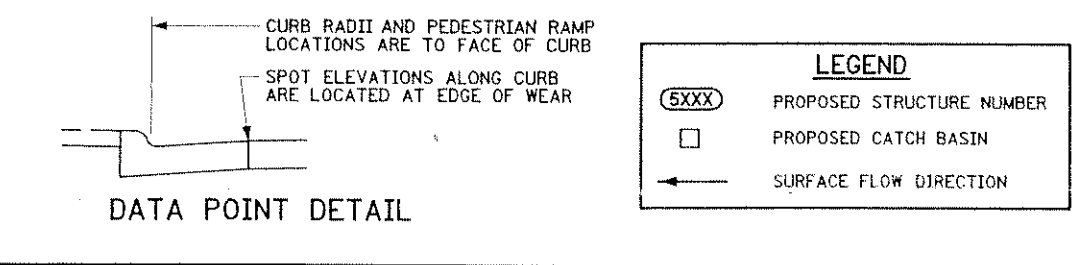
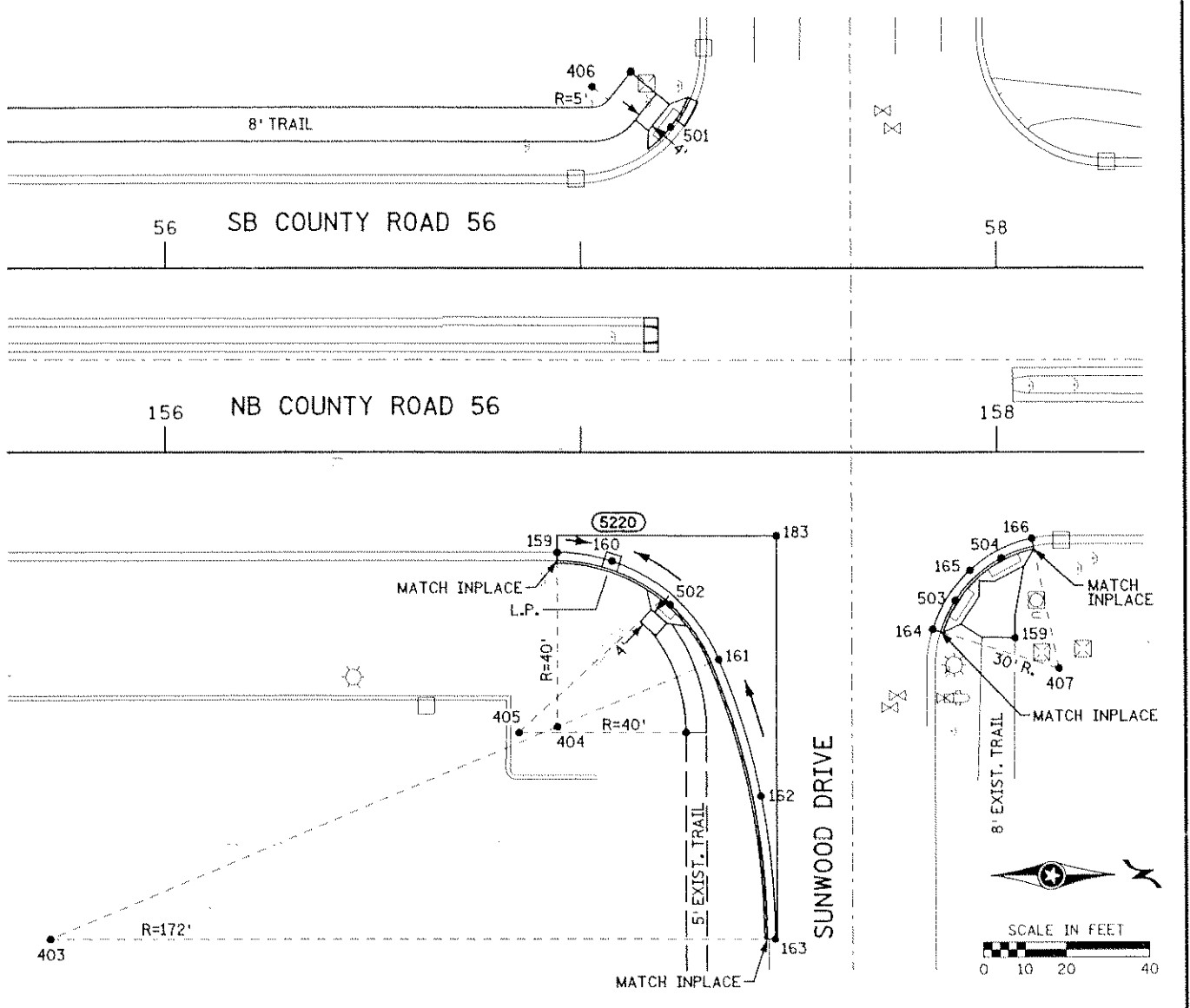
DRAWN BY:	CERTIFIED BY: <i>James W. ...</i> LIC. NO. 22405 DATE 3-1-06	TKDA TOLTZ, KING, DUWALL, ANDERSON AND ASSOCIATES, INCORPORATED ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA	INTERSECTION DETAIL CR 56 (RAMSEY BLVD.) / BNSF RAILROAD	C.P. 05-20
CHECKED BY:			Sheet No. 37 of 94 Sheets	

DATE: 3/2/2006 TIME: 3:23:21 PM
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SPOT ELEVATIONS

POINT NO.	STATION	OFFSET		ELEV.
151	149+25.81	20.00	RT.	866.05
152	149+44.67	26.15	RT.	865.80
153	149+56.28	42.22	RT.	865.54
154	149+57.31	52.10	RT.	865.41
155	149+94.36	51.96	RT.	865.41
156	149+95.45	42.08	RT.	865.51
157	150+07.08	26.10	RT.	865.72
158	150+25.87	20.00	RT.	865.92
159	156+94.28	24.00	RT.	867.34
160	157+06.68	27.97	RT.	867.19
161	157+31.19	50.58	RT.	867.46
162	157+41.13	83.07	RT.	867.73
163	157+44.48	116.88	RT.	867.99
164	157+86.29	43.16	RT.	MATCH EX.
165	157+94.76	29.82	RT.	MATCH EX.
166	158+08.82	22.64	RT.	MATCH EX.
167	169+98.75	24.00	RT.	870.63
168	170+13.94	28.68	RT.	871.20
169	170+23.87	41.10	RT.	871.77
170	170+25.25	51.00	RT.	872.12
171	170+25.25	73.14	RT.	872.90
172	170+64.00	74.69	RT.	872.89
173	170+64.00	47.00	RT.	871.95
174	170+65.39	37.10	RT.	871.72
175	170+75.31	24.68	RT.	871.27
176	170+90.50	20.00	RT.	871.48
177	80+56.37	20.00	LT.	873.04
178	80+70.08	23.09	LT.	872.83
179	80+86.06	40.05	LT.	873.07
180	80+87.83	50.48	LT.	873.18
181	81+13.47	50.92	LT.	873.18
182	81+13.66	41.21	LT.	872.98
183	157+46.96	20.00	RT.	MATCH EX.

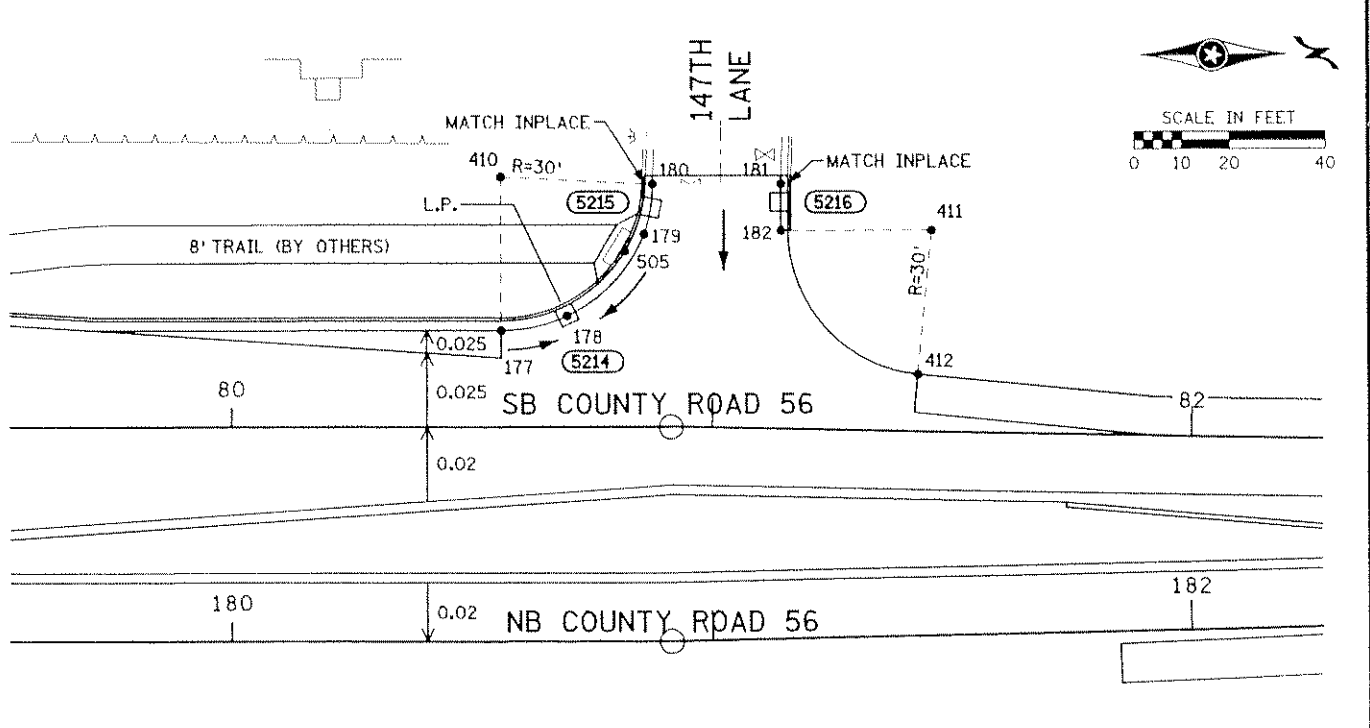


RADIUS POINTS

POINT NO.	STATION	OFFSET	
401	149+25.81	52.00	RT.
402	150+25.87	52.00	RT.
403	155+72.48	116.89	RT.
404	156+94.28	66.00	RT.
405	156+85.05	67.41	RT.
406	57+02.85	43.00	RT.
407	158+14.96	52.00	RT.
408	169+98.75	51.00	RT.
409	170+90.50	47.00	RT.
410	80+56.37	52.00	LT.
411	81+45.16	41.84	LT.
412	81+42.77	11.93	LT.

CENTER PED. RAMP

POINT NO.	STATION	OFFSET	
501	57+21.63	33.40	LT.
502	157+21.25	36.46	RT.
503	157+89.84	35.60	RT.
504	158+00.97	25.46	RT.
505	80+81.55	36.85	LT.



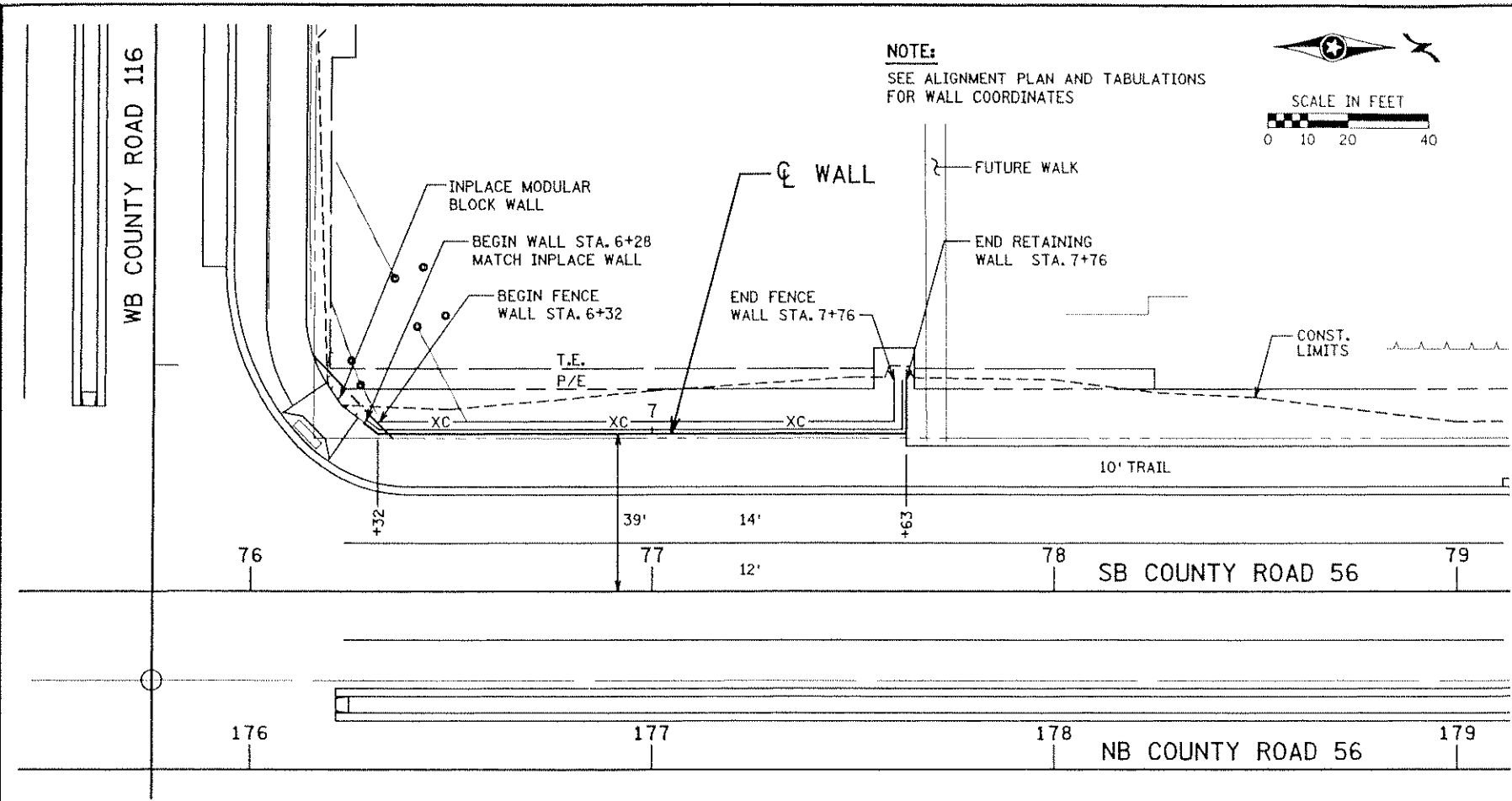
DRAWN BY: TJW
 CHECKED BY: JMW

CERTIFIED BY: *Joseph Weaner*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

TKDA
 TOLTZ, KING, DUJVAL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

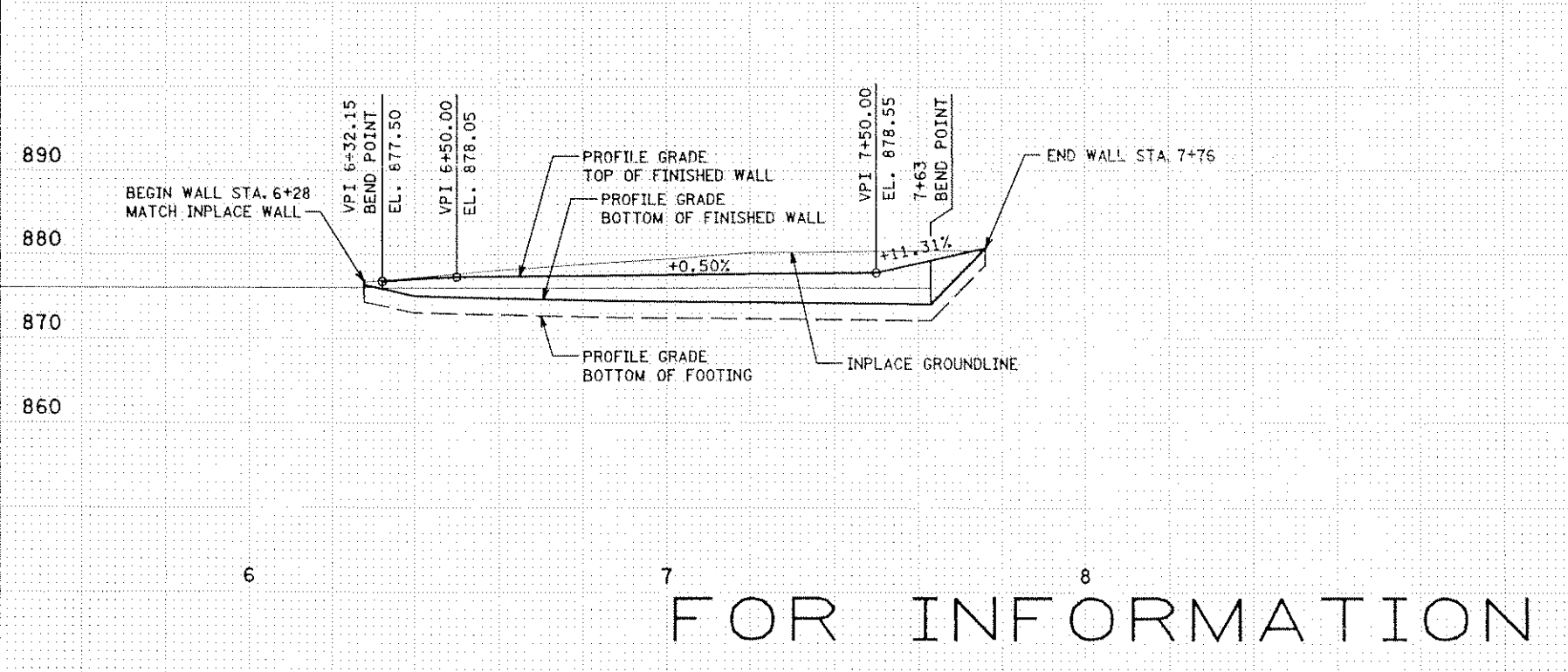
INTERSECTION DETAILS
 143RD ST., SUNWOOD DR., CONNEXUS ENT., AND 147TH LN.

C.P. 05-20
 Sheet No. 38 of 94 Sheets

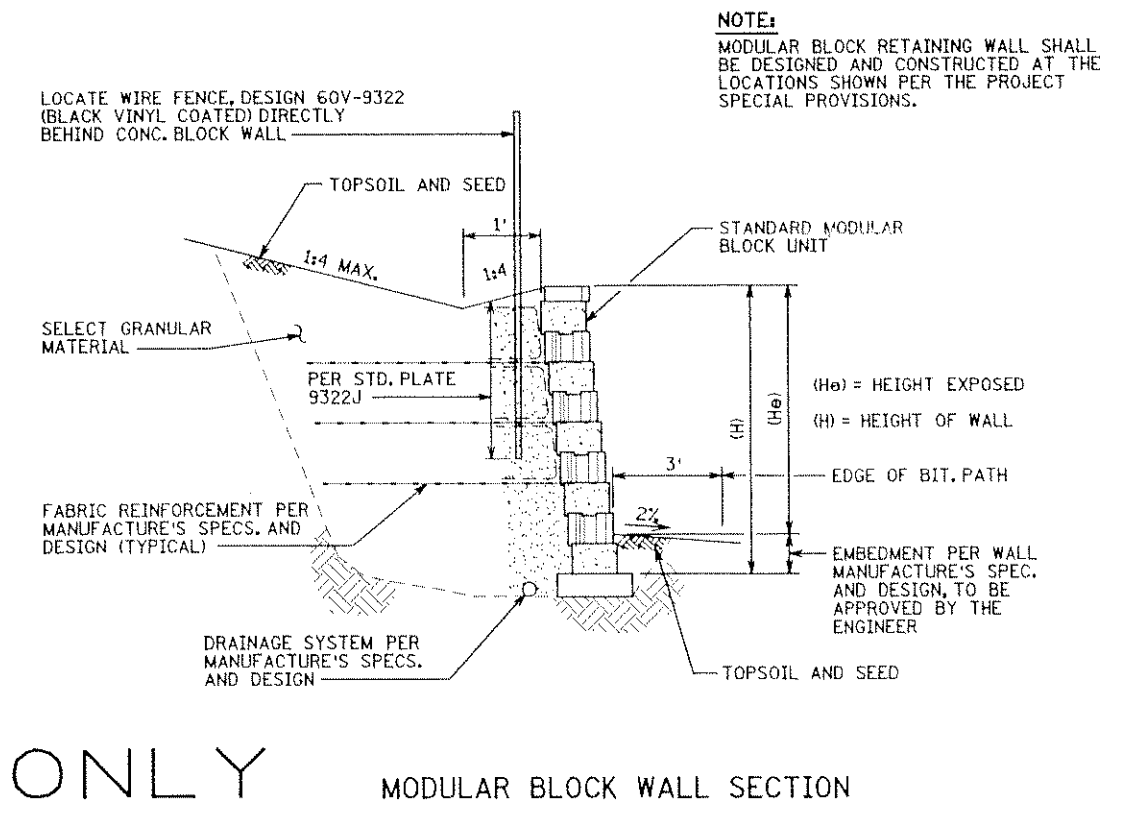


RETAINING WALL DATA						
WALL STATION	DIST.	FINISHED GRADE	TOP OF WALL	HEIGHT	BOTTOM OF FOOTING	WALL AREA SQ. FT.
				FT.		
6+28		877.06	877.50	2.44	875.06	
6+30	2.00	876.82	877.50	2.68	874.82	5.12
6+40	10.00	875.77	877.74	3.97	873.77	33.26
6+50	10.00	875.65	878.05	4.40	873.65	41.85
6+60	10.00	875.52	878.10	4.58	873.52	44.89
6+70	10.00	875.40	878.15	4.75	873.40	46.62
6+80	10.00	875.30	878.20	4.90	873.30	48.22
6+90	10.00	875.20	878.25	5.05	873.20	49.72
7+00	10.00	875.14	878.30	5.16	873.14	51.02
7+10	10.00	875.09	878.35	5.26	873.09	52.07
7+20	10.00	875.04	878.40	5.36	873.04	53.07
7+30	10.00	874.99	878.45	5.46	872.99	54.07
7+40	10.00	874.94	878.50	5.56	872.94	55.07
7+50	10.00	874.89	878.55	5.66	872.89	56.07
7+60	10.00	874.84	879.68	6.84	872.84	62.47
7+63	3.00	874.84	880.02	7.18	872.84	21.02
7+76	13.00	881.50	881.50	2.00	879.50	59.65
TOTAL						674.55

MODULAR BLOCK WALL PROFILE



FOR INFORMATION ONLY



DATE: 3/2/2006 TIME: 3:33:46 PM FILENAME: K:\r-z\Ramsey-City\3132_000\hwy-brdg\hwy\p/n-sta\cr56_wrl.dgn

- 5XXX PROPOSED STRUCTURE NUMBER
- PROPOSED CATCH BASIN
- CB INPLACE CATCH BASIN
- PROPOSED MANHOLE
- MH INPLACE MANHOLE
- ▼ PROPOSED APRON
- ▷ INPLACE APRON
- V — PROPOSED STORM SEWER/CULVERT
- - - INPLACE STORM SEWER
- ⊙ RIPRAP
- ↑ SURFACE FLOW DIRECTION

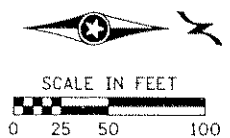
BEGIN CONSTRUCTION
 C.P. 05-20
 C.R. 56 SB STA. 41+40.00
 MATCH MNDOT PROJ. NO. 0202-81

EXISTING POND
 NWL = 856.0

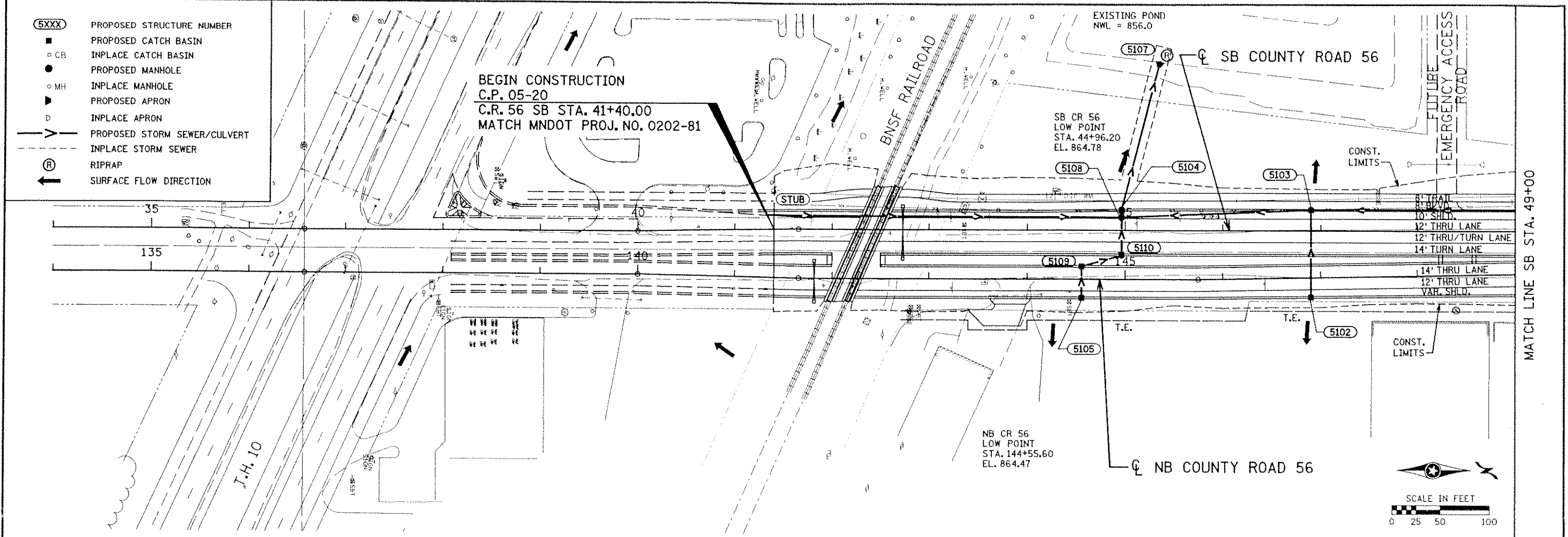
SB CR 56
 LOW POINT
 STA. 44+96.20
 EL. 864.78

NB CR 56
 LOW POINT
 STA. 144+55.60
 EL. 864.47

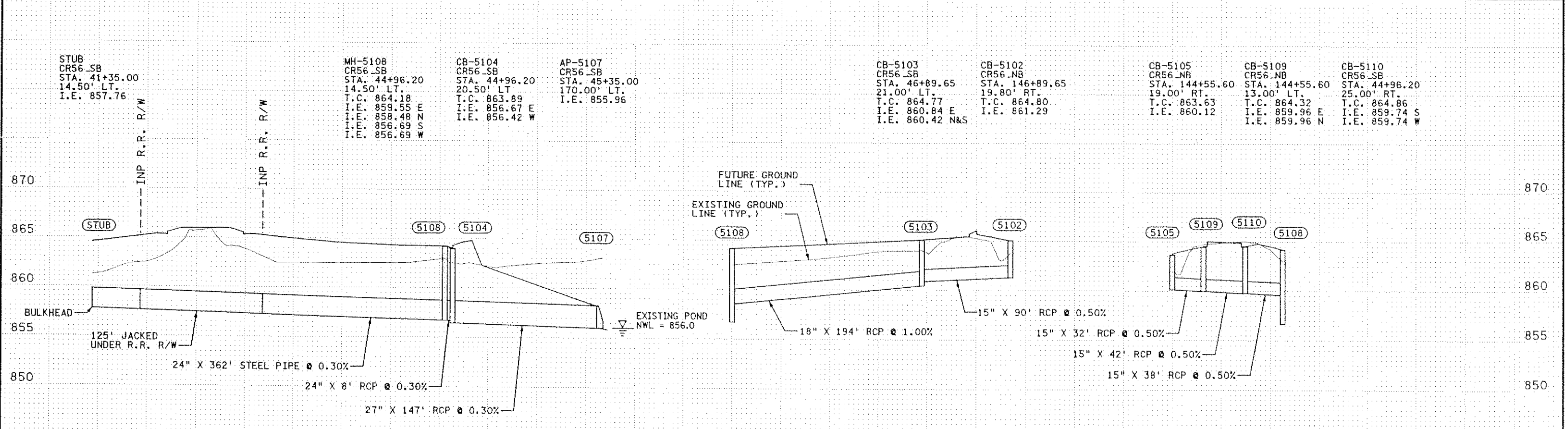
CONST. LIMITS



MATCH LINE SB STA. 49+00



DATE: 3/21/2006 TIME: 3:19:58 PM
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STUB
 CR56_SB
 STA. 41+35.00
 14.50' LT.
 I.E. 857.76

MH-5108
 CR56_SB
 STA. 44+96.20
 14.50' LT.
 T.C. 864.18
 I.E. 859.55 E
 I.E. 858.48 N
 I.E. 856.69 S
 I.E. 856.69 W

CB-5104
 CR56_SB
 STA. 44+96.20
 20.50' LT.
 T.C. 863.89
 I.E. 856.67 E
 I.E. 856.42 W

AP-5107
 CR56_SB
 STA. 45+35.00
 170.00' LT.
 I.E. 855.96

CB-5103
 CR56_SB
 STA. 46+89.65
 21.00' LT.
 T.C. 864.77
 I.E. 860.84 E
 I.E. 860.42 N&S

CB-5102
 CR56_NB
 STA. 146+89.65
 19.80' RT.
 T.C. 864.80
 I.E. 861.29

CB-5105
 CR56_NB
 STA. 144+55.60
 19.00' RT.
 T.C. 863.63
 I.E. 860.12

CB-5109
 CR56_NB
 STA. 144+55.60
 13.00' LT.
 T.C. 864.32
 I.E. 859.96 E
 I.E. 859.96 N

CB-5110
 CR56_SB
 STA. 44+96.20
 25.00' RT.
 T.C. 864.86
 I.E. 859.74 S
 I.E. 859.74 W

DRAWN BY: PJM
 CHECKED BY: JMW

CERTIFIED BY: *Joseph Weaver*
 LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

STORM SEWER PLAN AND PROFILE
 SB STA. 35+00 TO SB STA. 49+00

C.P. 05-20
 Sheet No. 40 of 94 Sheets

MATCH LINE SB STA. 49+00

MATCH LINE SB STA. 64+00

SB CR 56
LOW POINT
STA. 50+58.55
EL. 866.63

END CONSTRUCTION
SB STA. 51+16.7
MATCH CITY PROJECT 03-29

END MEDIAN
SB STA. 51+65

SB COUNTY ROAD 56

NB COUNTY ROAD 56

SUNWOOD DRIVE

143RD AVENUE

PARK TRAIL

A.E.C. E

CONST. LIMITS

5101

12' THRU LANE
14' THRU LANE

14' TURN LANE
12' THRU LANE
12' THRU LANE
10' SLOPE

4' MEDIAN

CONST. LIMITS

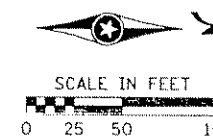
5100

NB CR 56
LOW POINT
STA. 150+58.55
EL. 866.63

CONNECT TO EX.
STORM SEWER
CONTRACTOR TO VERIFY
TOP OF CASTING AND INVERT
ELEVATIONS.

CONNECT TO EXISTING
DRAINAGE STRUCTURE

INSTALL SALVAGED
CASTING



CB-5103
CR56_SB
STA. 46+89.65
21.00' LT.
T.C. 864.77
I.E. 860.84 E
I.E. 860.42 N&S

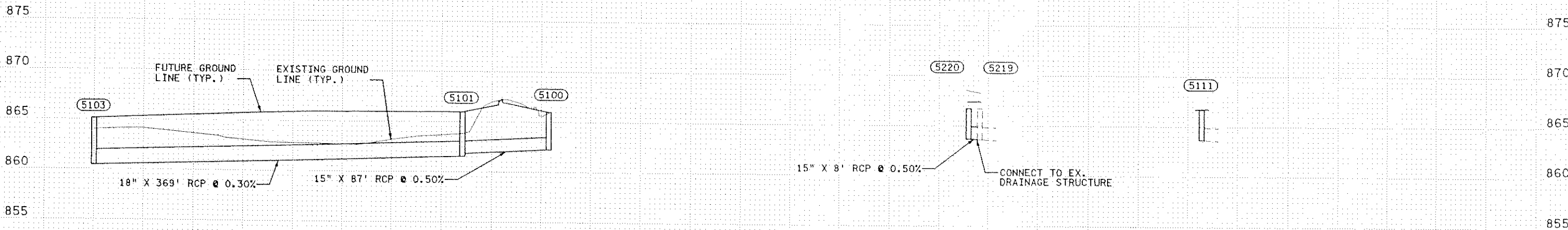
CB-5101
CR56_SB
STA. 50+58.55
21.00' LT.
T.C. 865.73
I.E. 861.79 E
I.E. 861.53 S

CB-5100
CR56_NB
STA. 150+58.55
21.00' RT.
T.C. 865.73
I.E. 862.22

CB-5220
CR56_NB
STA. 157+07.00
27.00' RT.
T.C. 867.10
I.E. 863.65 N

MH-5219
CR56_NB
STA. 157+14.50
26.30' RT.
T.C. 866.40
I.E. 863.61 S
I.E. 863.61 N
I.E. 863.61 W

CB-5111
CONNECT TO EX.
STORM SEWER
CR56_NB
STA. 150+13.50
38.40' RT.
T.C. 865.50
I.E. 862.50



DATE: 3/2/2006 TIME: 3:20:07 PM
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CHECKED BY: JMW

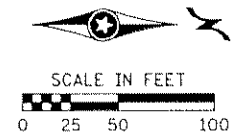
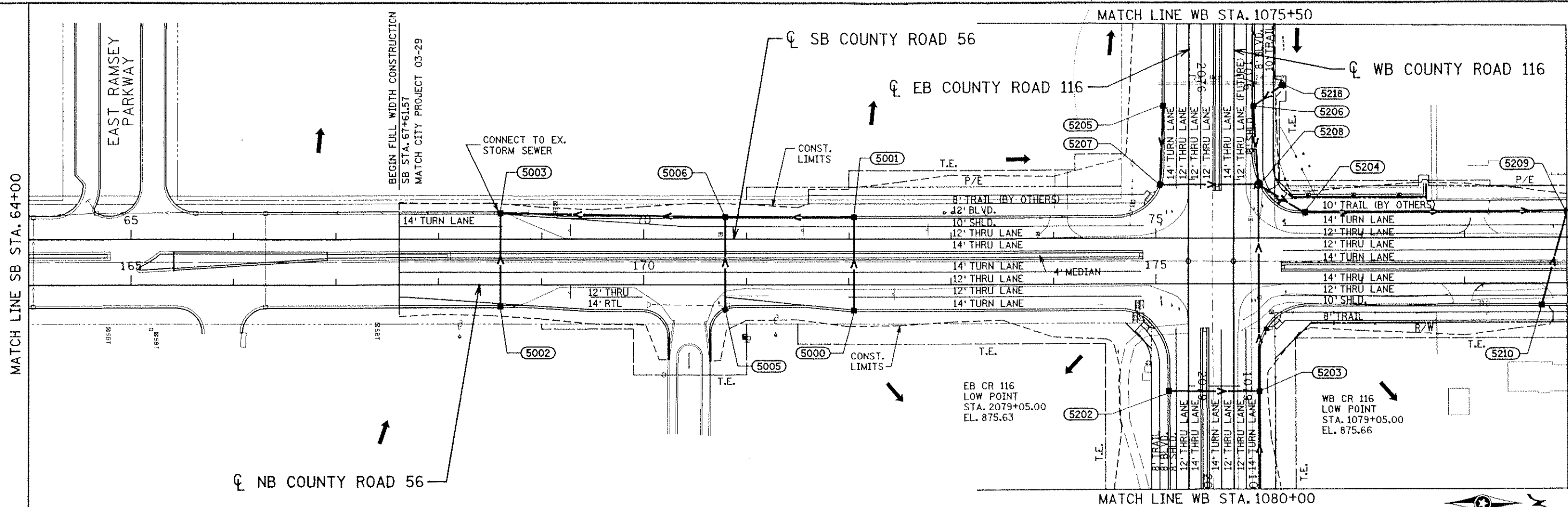
CERTIFIED BY: *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUWALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

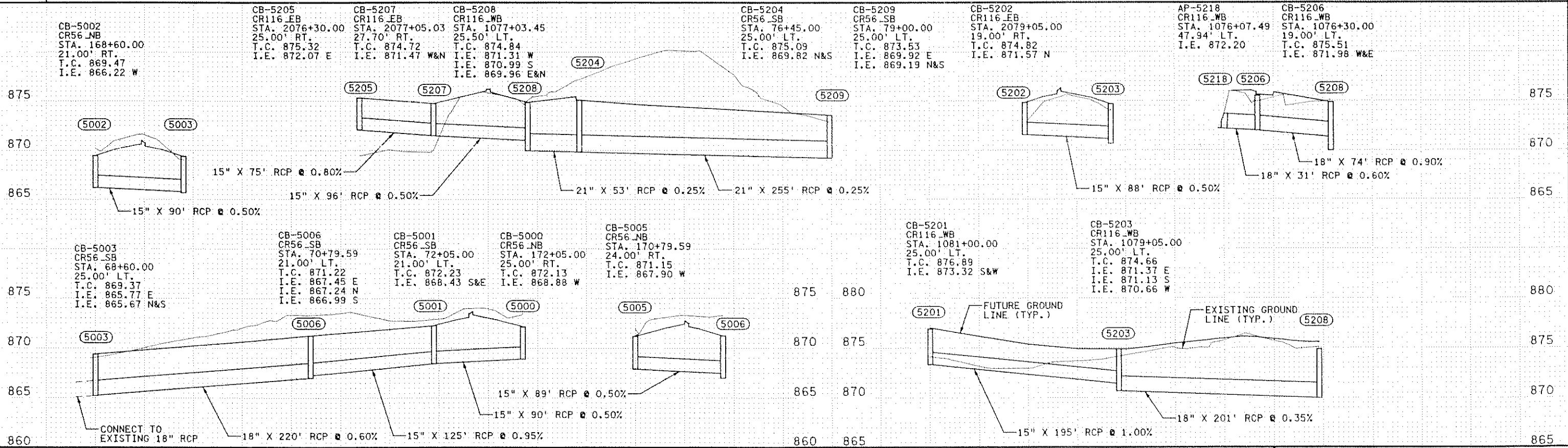
STORM SEWER PLAN AND PROFILES
SB STA. 49+00 TO SB STA. 64+00

C.P. 05-20

Sheet No. 41 of 94 Sheets



DATE: 3/2/2006 TIME: 3:20:16 PM
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DRAWN BY: PJM
CHECKED BY: JMW

CERTIFIED BY: *Joseph W. Jones*
LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

STORM SEWER PLAN AND PROFILE
SB STA. 64+00 TO SB STA. 79+00

C.P. 05-20
Sheet No. 42 of 94 Sheets

MATCH LINE SB STA. 79+00

SB CR 56
LOW POINT
STA. 82+01.14
EL. 873.25

SB COUNTY ROAD 56

END CONSTRUCTION
C.P. 05-20
C.R. 56 SB STA. 84+42.58

147TH LANE

CONNECT TO EX.
STORM SEWER
SALVAGE CASTING
SALVAGE CASTING

CONST. LIMITS

12' THRU LANE

12' THRU LANE

14' THRU LANE

12' THRU LANE (FUTURE)

10' SHLD.

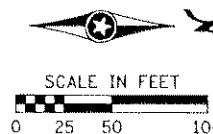
R/W

CONST. LIMITS

END PERMANENT CONSTRUCTION
NB STA. 180+91.56

NB CR 56
LOW POINT
STA. 181+86.88
EL. 873.30

NB COUNTY ROAD 56



CB-5210
CR56_NB
STA. 178+75.00
21.00' RT.
T.C. 873.77
I.E. 870.39 W

CB-5209
CR56_SB
STA. 79+00.00
25.00' LT.
T.C. 873.53
I.E. 869.92 E
I.E. 869.19 N&S

CB-5214
CR56_SB
STA. 80+69.64
24.00' LT.
T.C. 872.70
I.E. 868.94 E
I.E. 868.76 S&NW

CB-5215
CR56_SB
STA. 80+86.74
45.96' LT.
T.C. 873.08
I.E. 869.42 N
I.E. 868.70 SE
I.E. 868.68 W

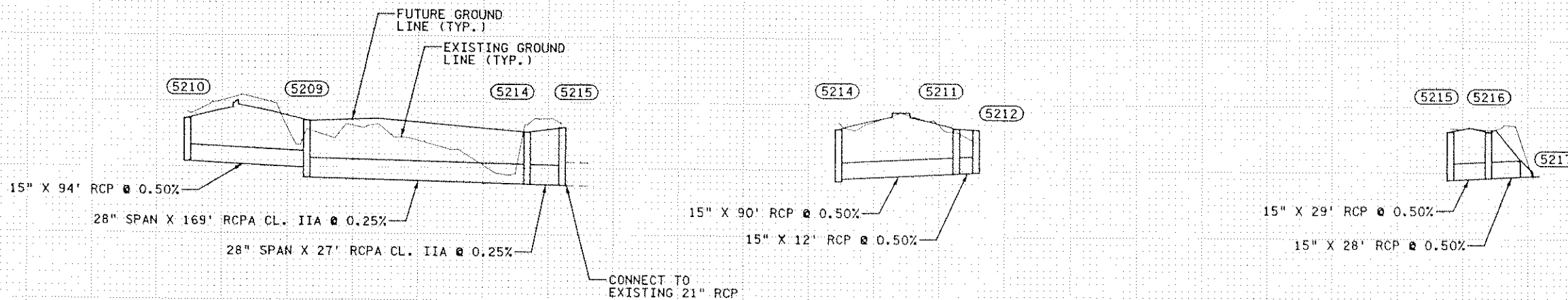
CB-5211
CR56_NB
STA. 180+70.00
21.00' RT.
T.C. 872.79
I.E. 869.39 N&W

CB-5212
CR56_NB
STA. 180+82.00
21.00' RT.
T.C. 872.73
I.E. 869.47 S

CB-5216
CR56_SB
STA. 81+14.09
47.22' LT.
T.C. 873.06
I.E. 869.57 S&NE

AP-5217
CR56_SB
STA. 81+41.46
27.19' LT.
I.E. 869.74

880
875
870
865
860



880
875
870
865
860

DRAWN BY: PJM

CHECKED BY: JMW

CERTIFIED BY

Joseph W. Jones
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

TKDA

TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

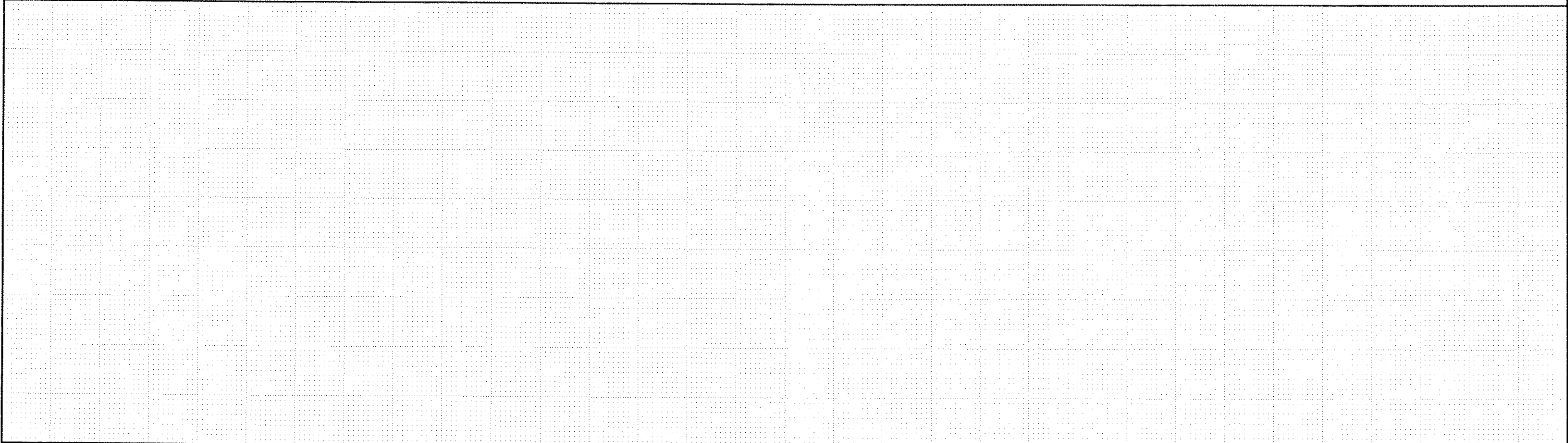
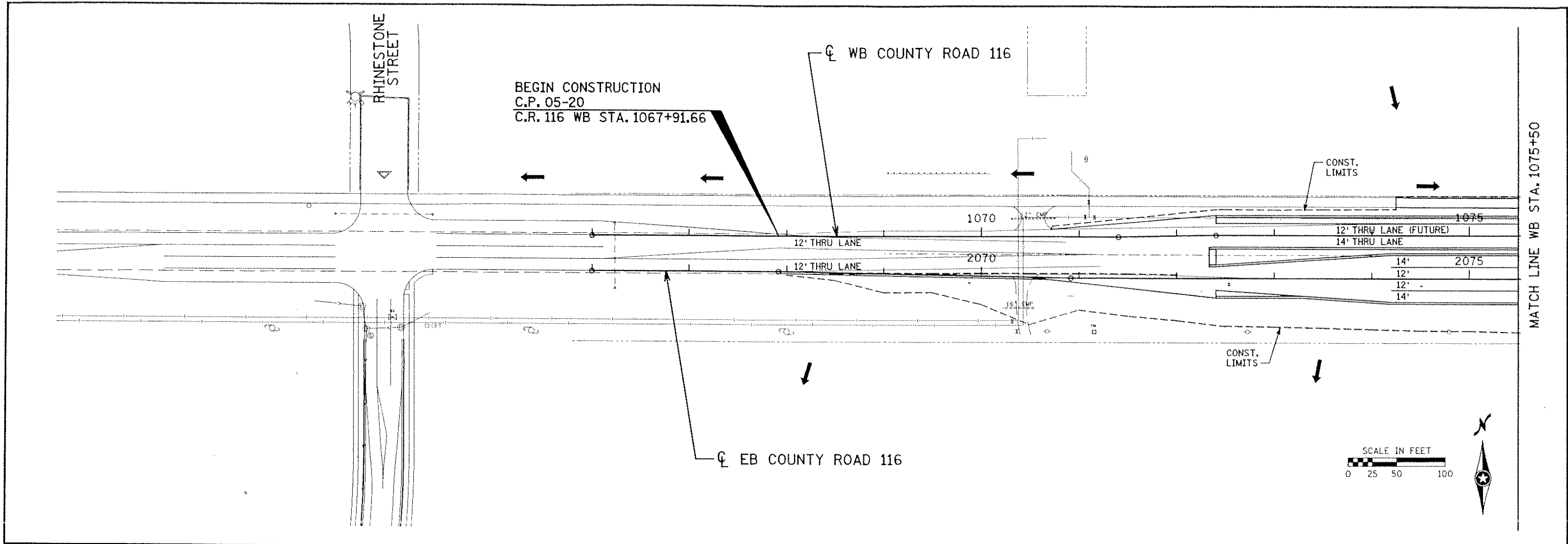
STORM SEWER PLAN AND PROFILES
SB STA. 79+00 TO SB STA. 89+00

C.P. 05-20

Sheet No. 43 of 94 Sheets

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DATE: 3/2/2006 TIME: 3:20:32 PM
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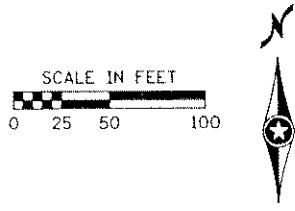
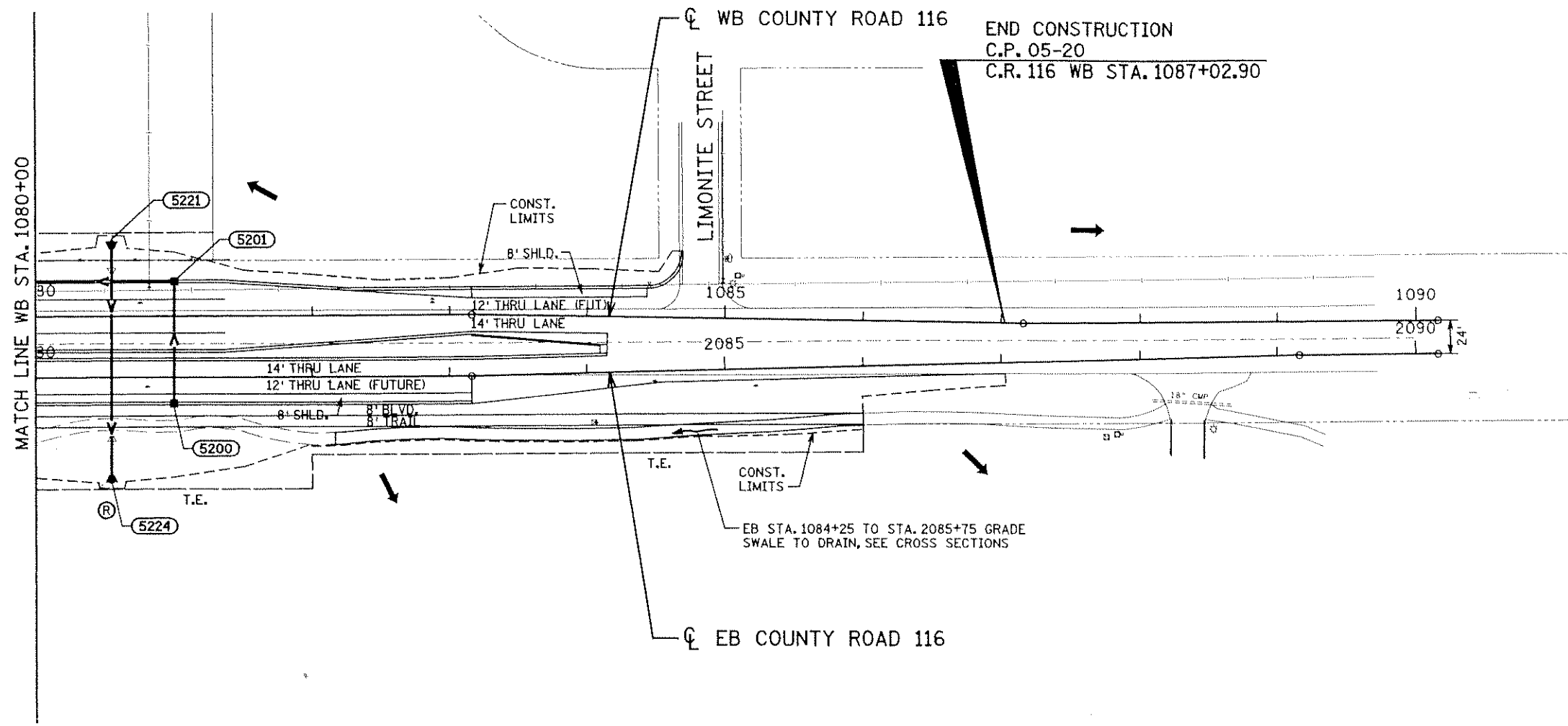
DRAWN BY: PJM
CHECKED BY: JMW

CERTIFIED BY *Joseph W. ...* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

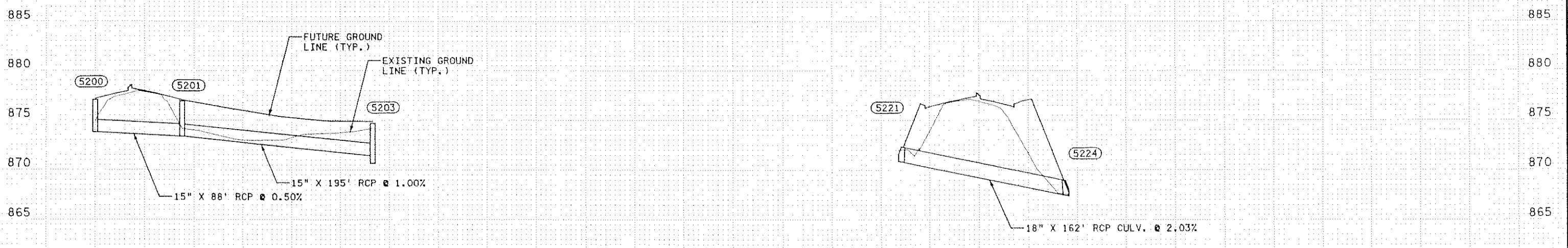
TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

STORM SEWER PLAN AND PROFILES
WB STA. 1065+00 TO SB STA. 1074+50

C.P. 05-20
Sheet No. 44 of 94 Sheets



CB-5200 CR116_EB STA. 2081+00.00 19.00' RT. T.C. 877.01 I.E. 873.76	CB-5201 CR116_WB STA. 1081+00.00 25.00' LT. T.C. 876.89 I.E. 873.32 W&S	CB-5203 CR116_WB STA. 1079+05.00 25.00' LT. T.C. 874.66 I.E. 871.37 E I.E. 871.13 S I.E. 870.66 W	AP-5221 CR116_WB STA. 1080+55.00 53.80' LT. I.E. 870.87	AP-5224 CR116_EB STA. 2080+55.00 76.00' RT. I.E. 867.35
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DATE: 3/2/2006 TIME: 3:20:40 PM
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DRAWN BY: PJM
 CHECKED BY: JMW











CERTIFIED BY: *Joseph Weaver*
 LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, BUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

STORM SEWER PLAN AND PROFILE
 WB STA. 1081+00 TO SB STA. 1090+00

C.P. 05-20
 Sheet No. 45 of 94 Sheets

LEGEND

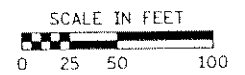
-  SILT FENCE (MACHINE SLICED)
-  SEED MIXTURE 260
-  TYPE 1 MULCH, DISC ANCHOR
-  22-5-10 80% WIN FERTILIZER
-  SOD TYPE SALT RESISTANT
-  22-5-10 80% WIN FERTILIZER
-  INLET PROTECTION
-  RISER STANDPIPE
-  SURFACE FLOW DIRECTION
-  RIPRAP

BEGIN CONSTRUCTION
C.P. 05-20
C.R. 56 SB STA. 41+40.00
MATCH MNDOT PROJ. NO. 0202-81

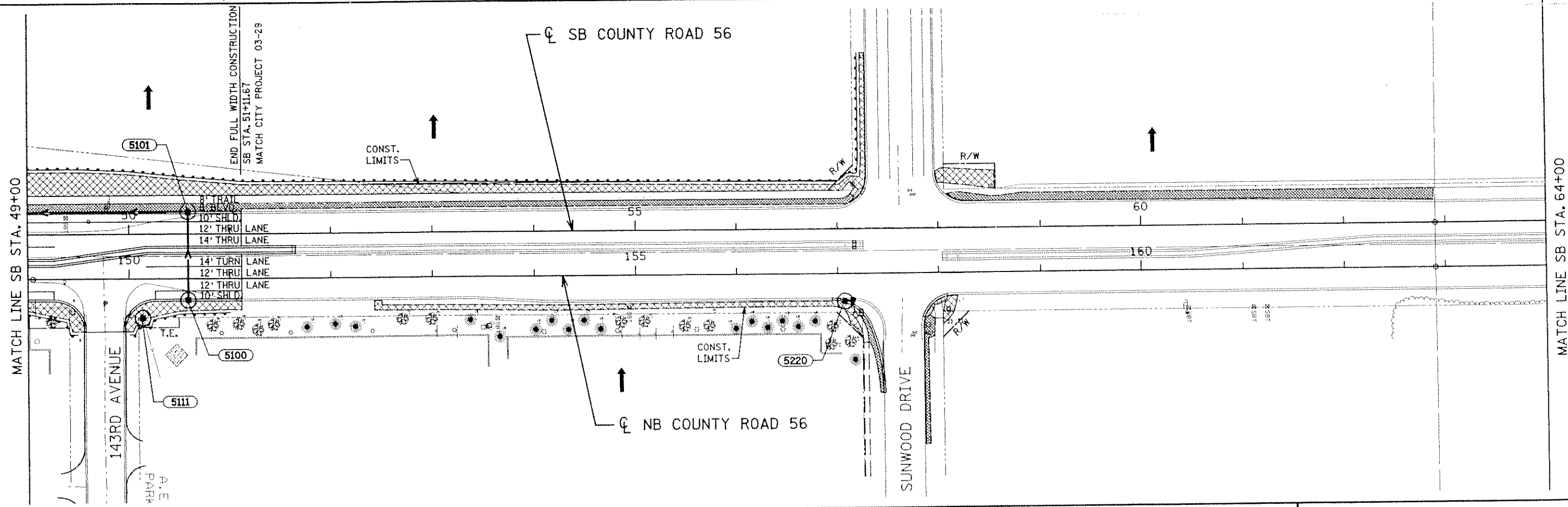
EXISTING SOUTHEAST POND
NWL = 856.0

SB COUNTY ROAD 56

NB COUNTY ROAD 56



MATCH LINE SB STA. 49+00



MATCH LINE SB STA. 64+00

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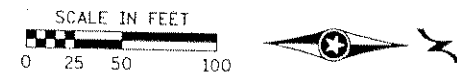
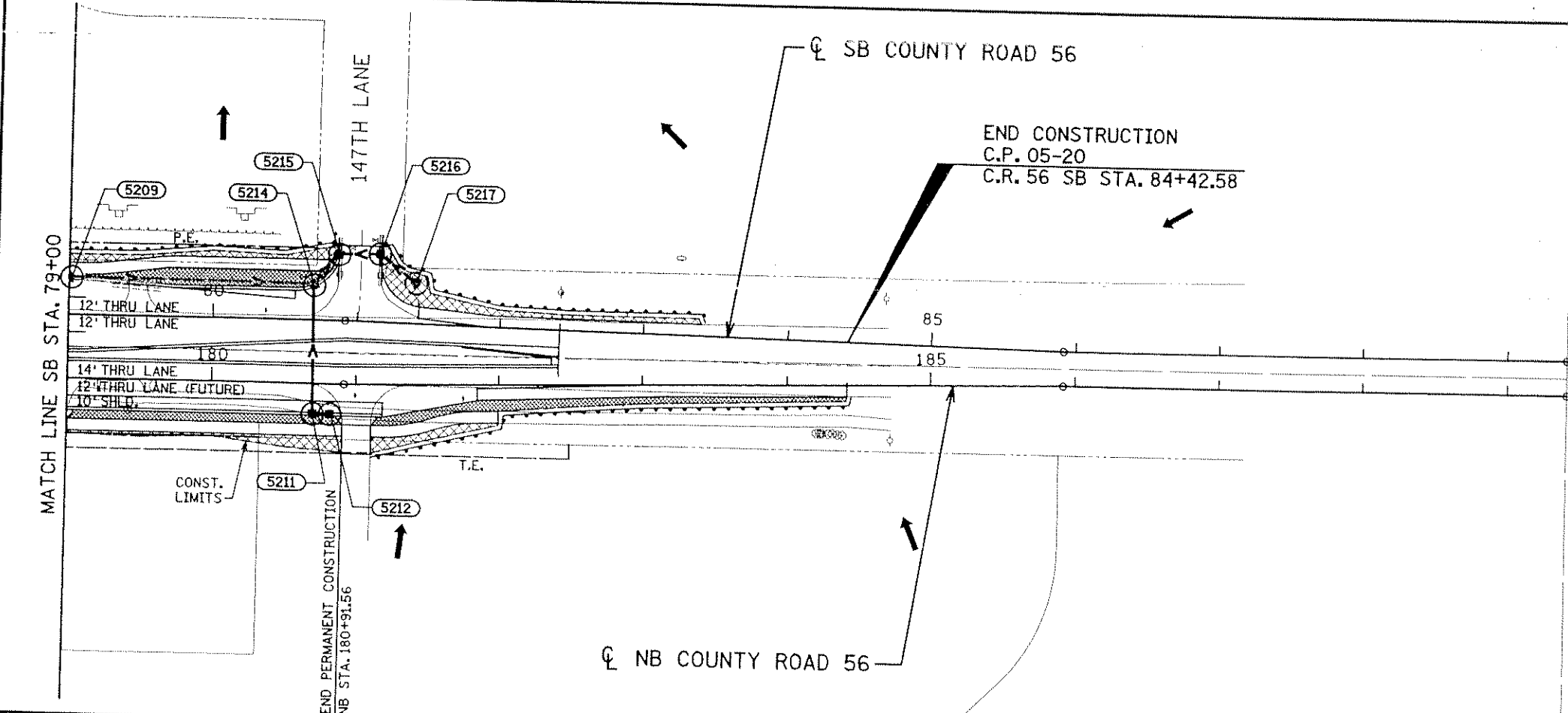
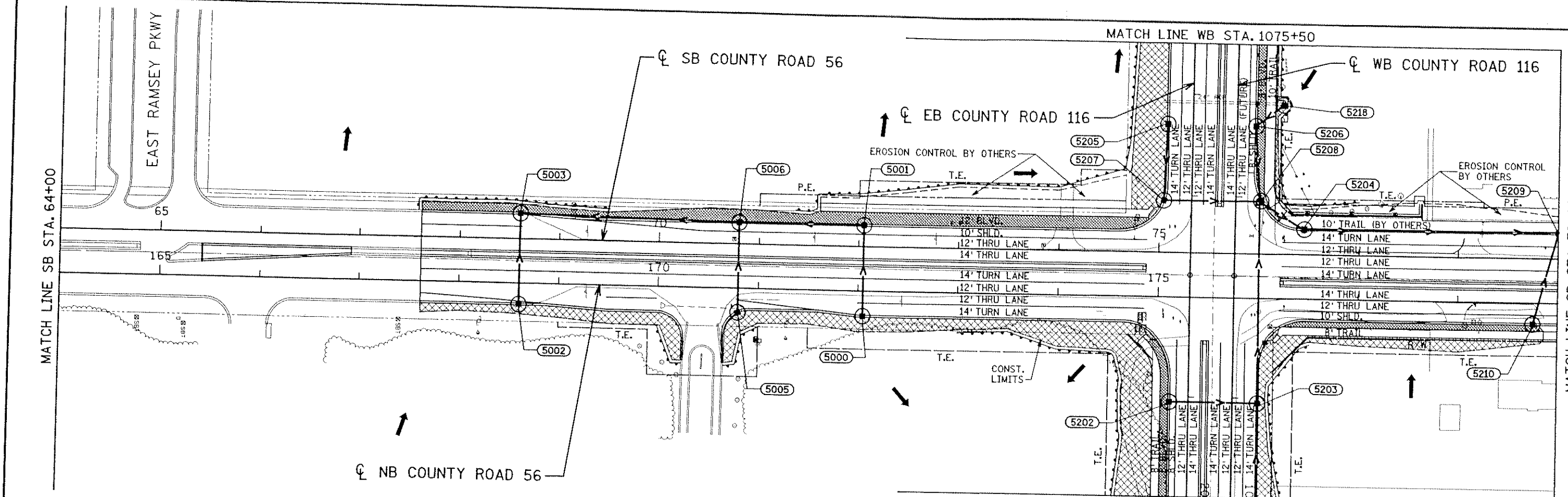
CERTIFIED BY: *Joseph Weaver* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS • ARCHITECTS • PLANNERS SAINT PAUL, MINNESOTA

EROSION CONTROL & TURF ESTABLISHMENT PLAN
SB STA. 41+40 TO SB STA. 64+00

C.P. 05-20
Sheet No. 47 of 94 Sheets

DATE: 3/2/2006 TIME: 3:23:01 PM
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LEGEND	
	SILT FENCE (MACHINE SLICED)
	SEED MIXTURE 260
	TYPE 1 MULCH, DISC ANCHOR
	22-5-10, 80% WIN FERTILIZER
	22-5-10, 80% WIN FERTILIZER
	INLET PROTECTION
	RISER STANDPIPE
	SURFACE FLOW DIRECTION
	RIPRAP

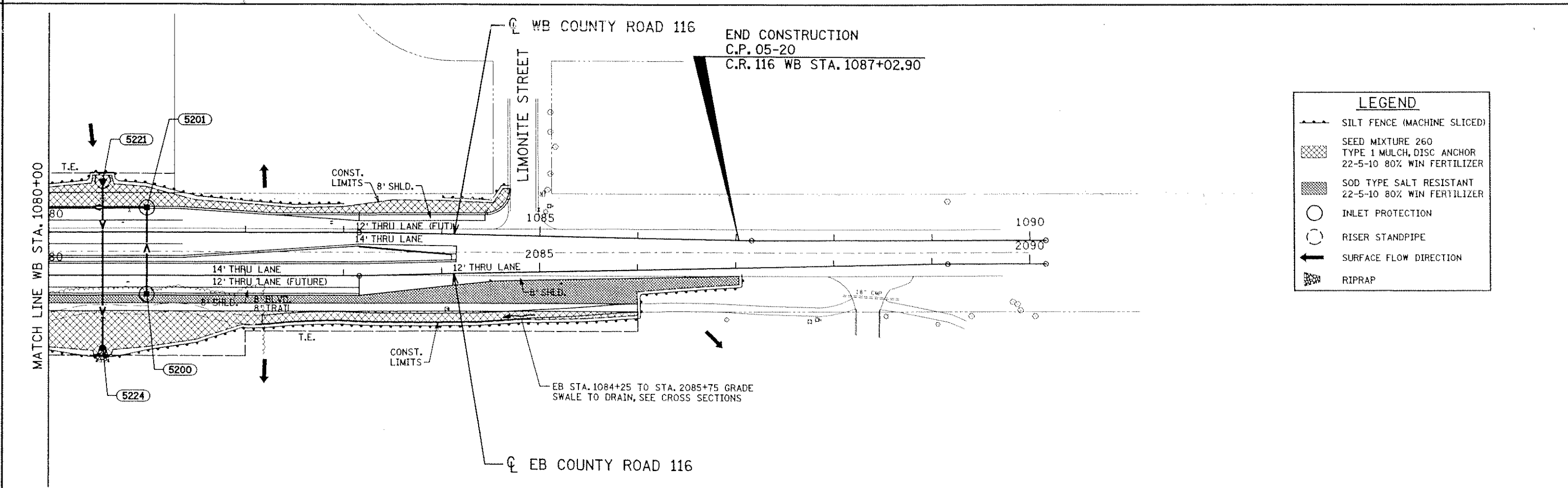
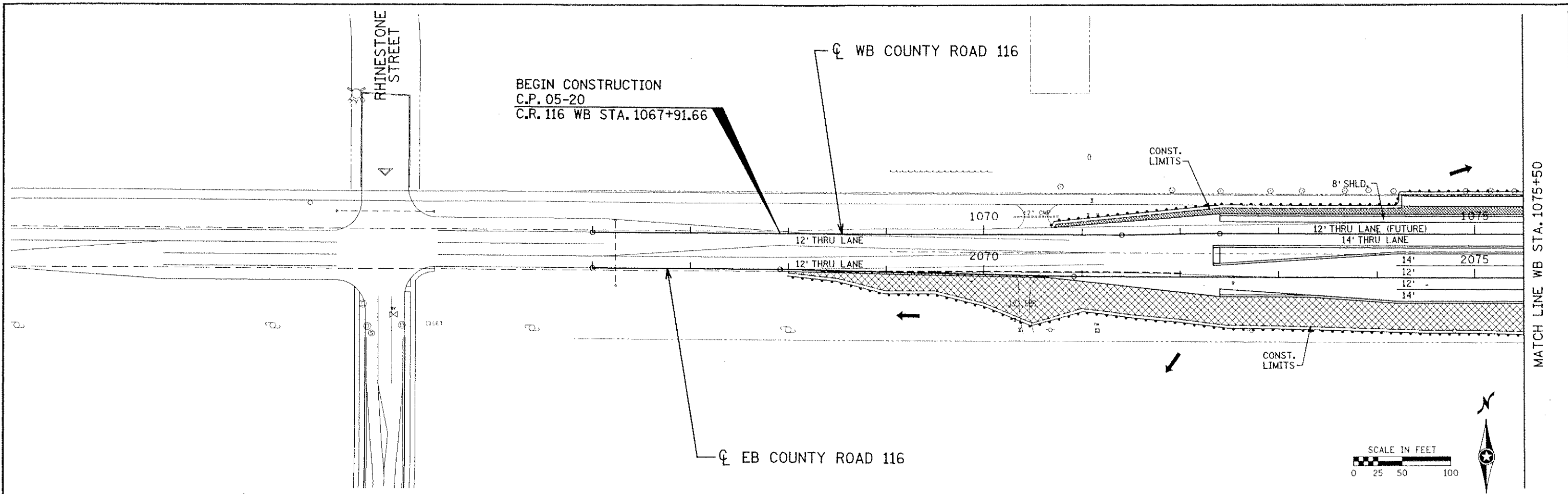
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CERTIFIED BY *Joseph Warner*
 LICENSED PROFESSIONAL ENGINEER LIC. NO. 22405 DATE 3-1-06

TKDA
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 AND ASSOCIATES, INCORPORATED
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EROSION CONTROL & TURF ESTABLISHMENT PLAN
 SB STA. 64+00 TO SB STA. 84+42.58

C.P. 05-20
 Sheet No. 48 of 94 Sheets



DATE: 3/2/2006 TIME: 3:23:06 PM
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CERTIFIED BY: *Joseph W. Anderson*
LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

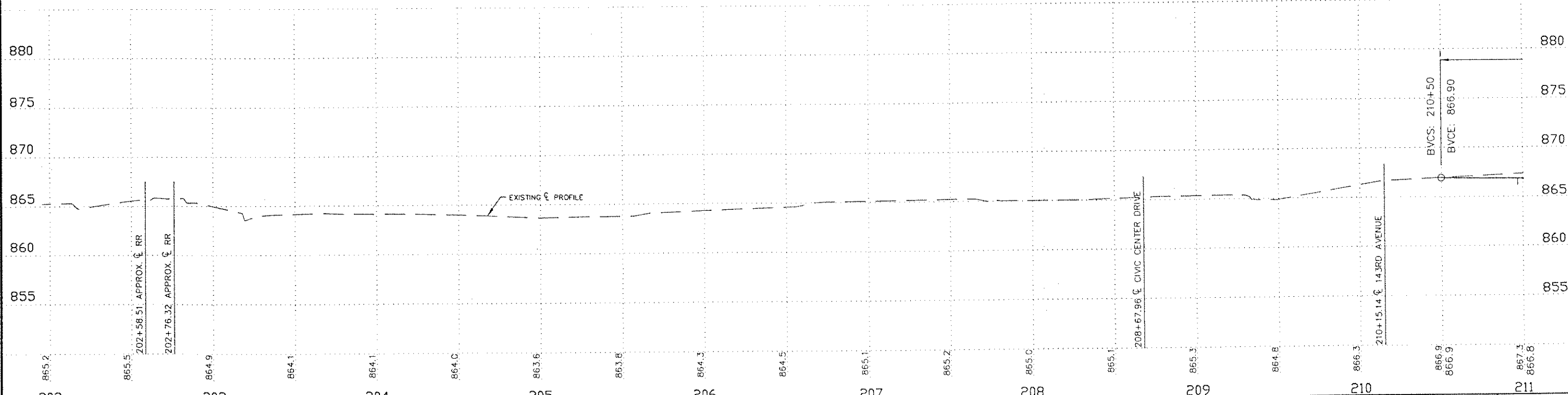
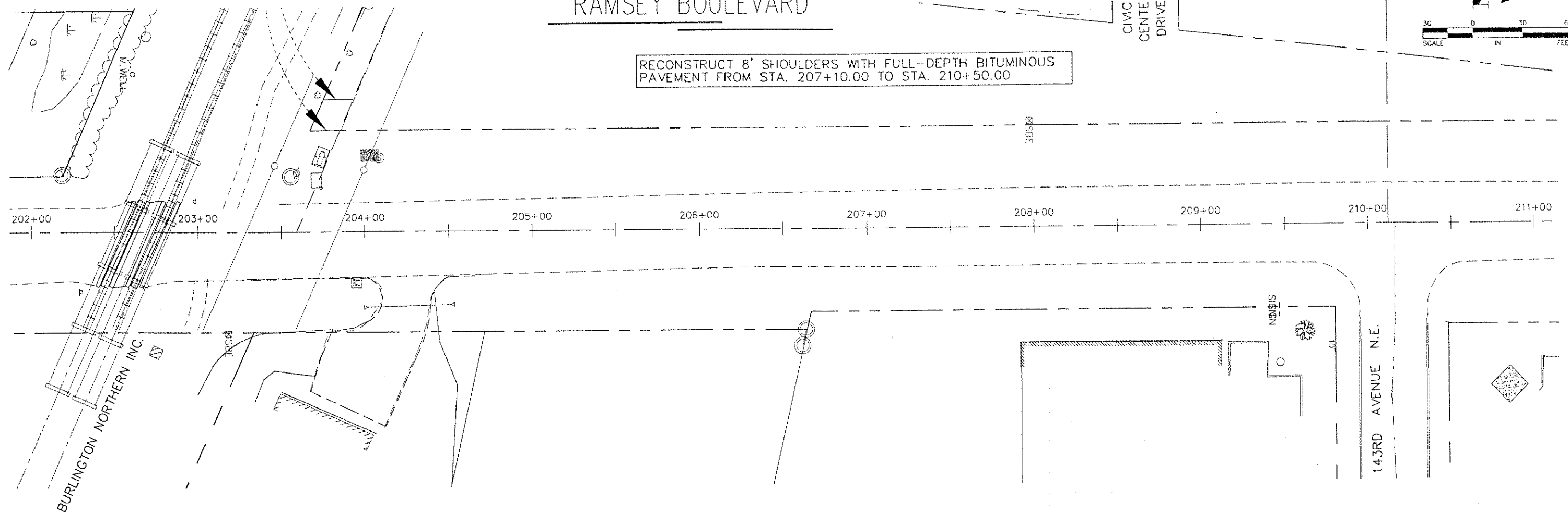
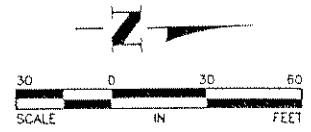
TKDA
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ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

EROSION CONTROL & TURF ESTABLISHMENT PLAN
WB STA. 1067+91.66 TO SB STA. 1087+02.90

C.P. 05-20
Sheet No. 49 of 94 Sheets

RAMSEY BOULEVARD

RECONSTRUCT 8' SHOULDERS WITH FULL-DEPTH BITUMINOUS PAVEMENT FROM STA. 207+10.00 TO STA. 210+50.00



DATE	REVISION

I hereby certify that this plan, specification, or report 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.

Peter R. Raatikka
 PETER R. RAATIKKA, P.E.
 Date 3/24/04 Lic. No. 11586

DESIGNED BY: JEJ	DATE: 01/29/04
DRAWN BY: RAA	FILE NO. RA3172
CHECKED BY: PRR	



Hakanson Anderson Assoc., Inc.
 Civil Engineers and Land Surveyors
 3601 Thurston Ave., Anoka, Minnesota 55303
 763-427-5860 FAX 763-427-0520
 www.hakanson-anderson.com

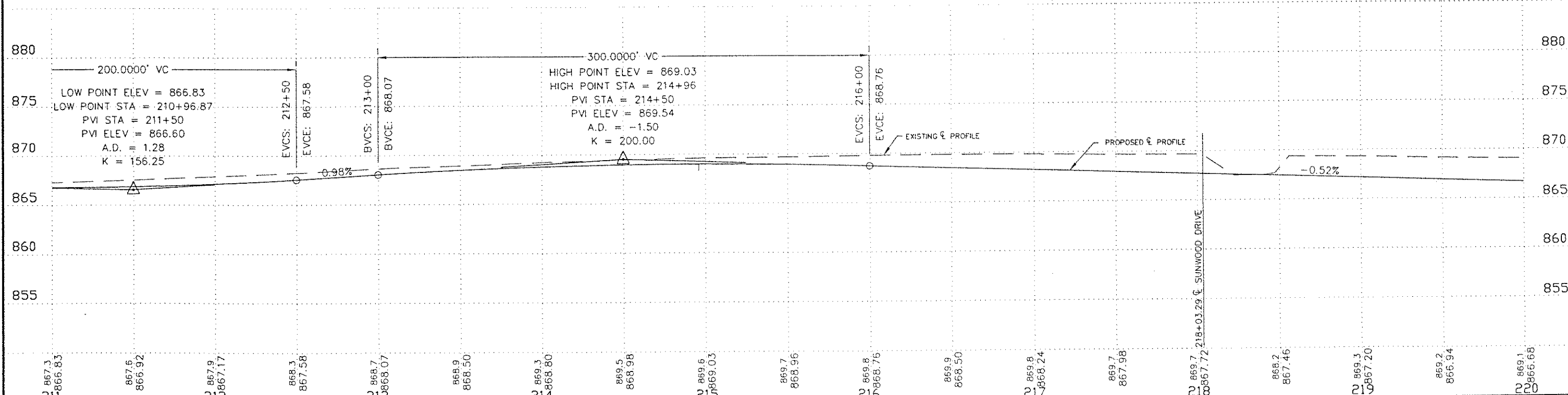
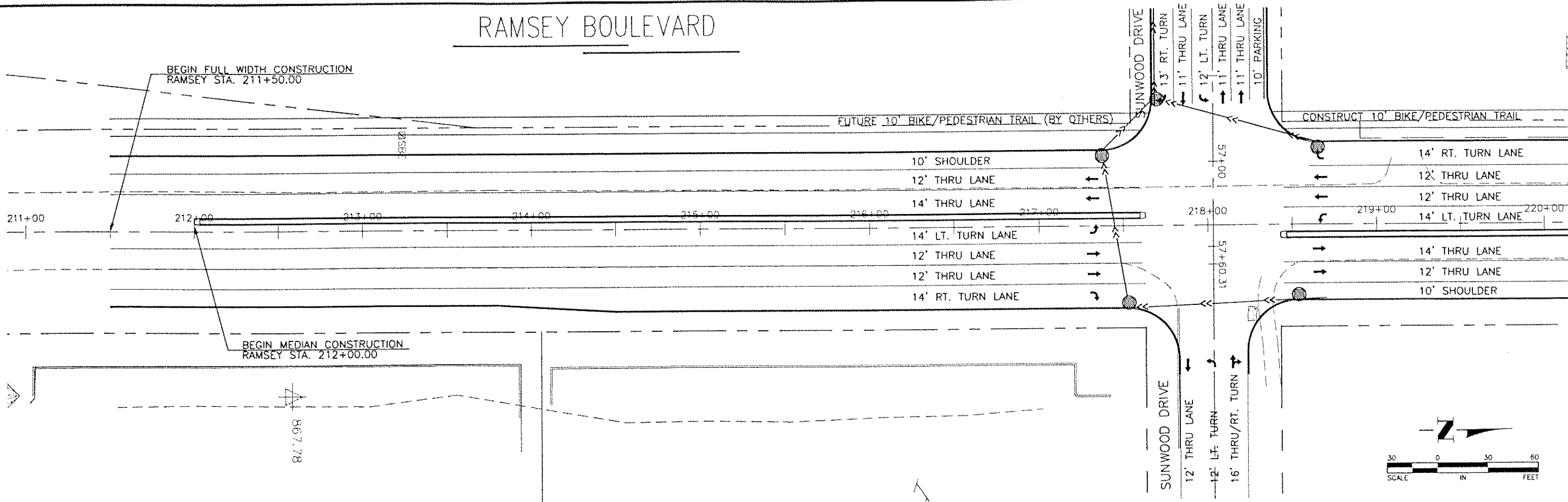
S.A.P. 199-104-07

STREET PLAN
 RAMSEY BOULEVARD
 CITY OF RAMSEY, MINNESOTA

SHEET
 7R
 OF
 166
 SHEETS

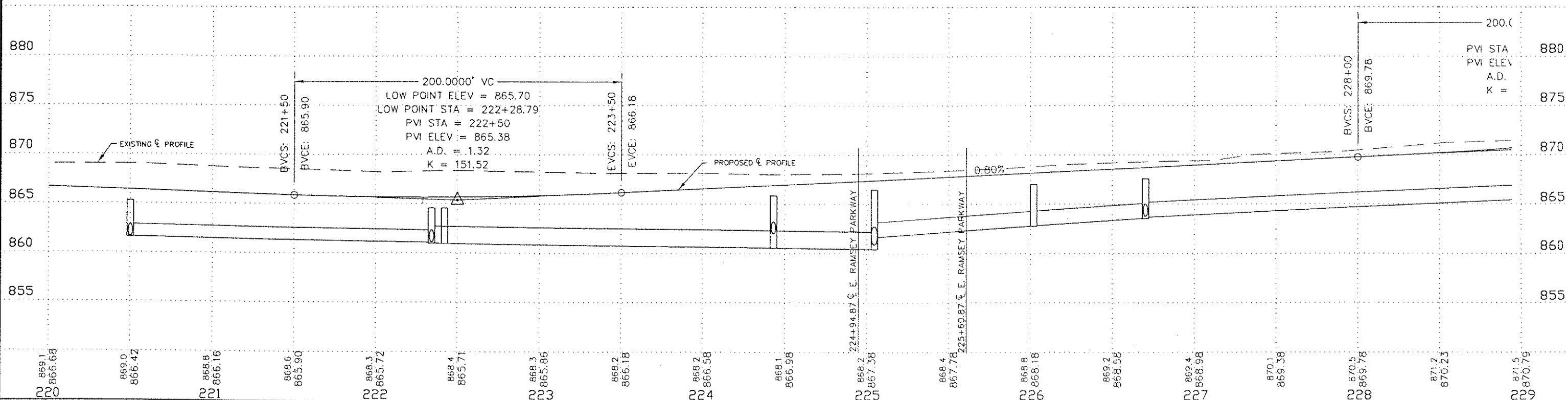
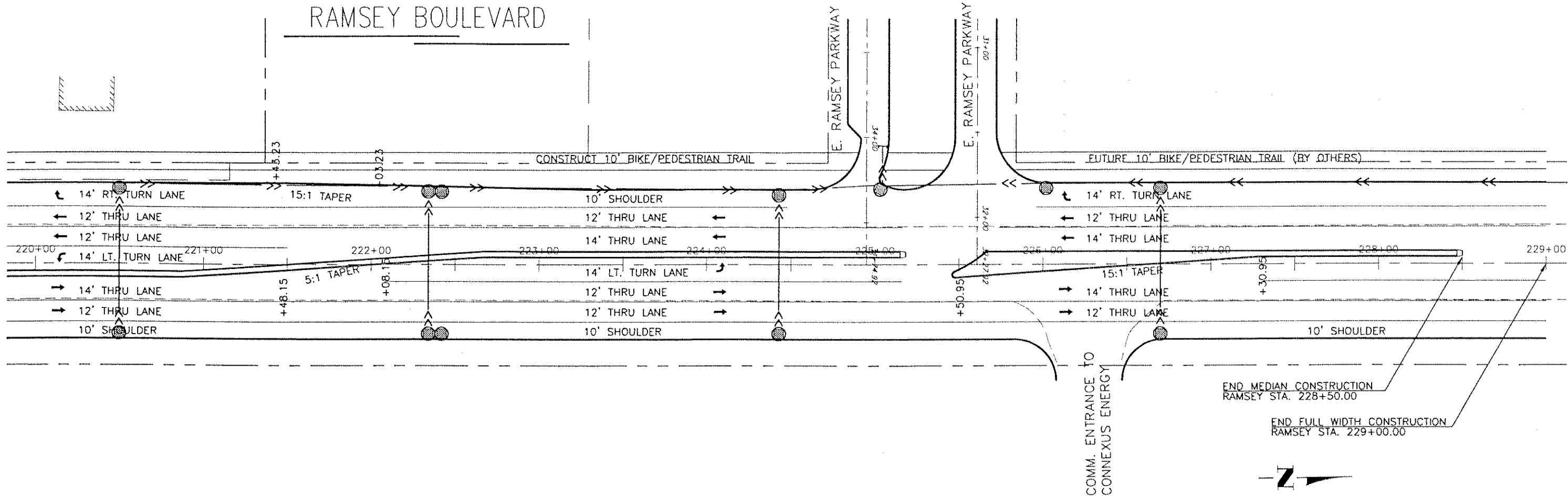
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RAMSEY BOULEVARD



DATE	REVISION	I hereby certify that this plan, specification, or report 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. <i>Peter R. Raatikka, P.E.</i> PETER R. RAATIKKA, P.E. Date 3/24/04 Lic. No. 11585	DESIGNED BY: J.E.J.		Hakanson Anderson Assoc., Inc. Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5850 FAX 763-427-0520 www.hakanson-anderson.com	S.A.P. 199-104-07	STREET PLAN RAMSEY BOULEVARD CITY OF RAMSEY, MINNESOTA	SHEET 8R OF 166 SHEETS
Mar 29, 2004 - 4:27pm K:\cad_eng\land_projects-2004\RA3172\dwg\RA3172-RAMSEY-PP.dwg	DRAWN BY: RAA		DATE: 01/29/04					

RAMSEY BOULEVARD



DATE	REVISION
220	
221	
222	
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224	
225	
226	
227	
228	
229	

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Peter R. Raatikka
 PETER R. RAATIKKA, P.E.
 Date 3/24/04 Lic. No. 11586

DESIGNED BY: JEJ
 DRAWN BY: RAA
 CHECKED BY: PRR
 DATE: 01/29/04
 FILE NO.: RA3172



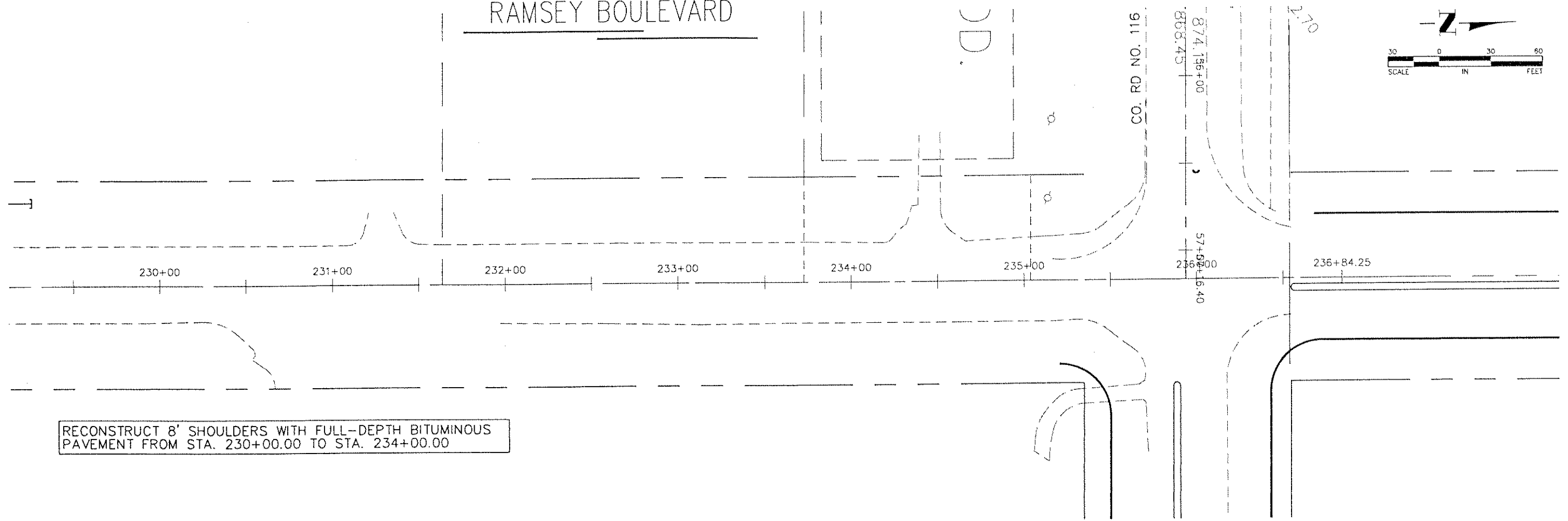
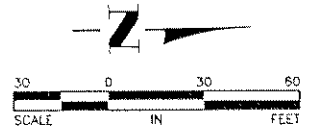
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S.A.P. 199-104-07

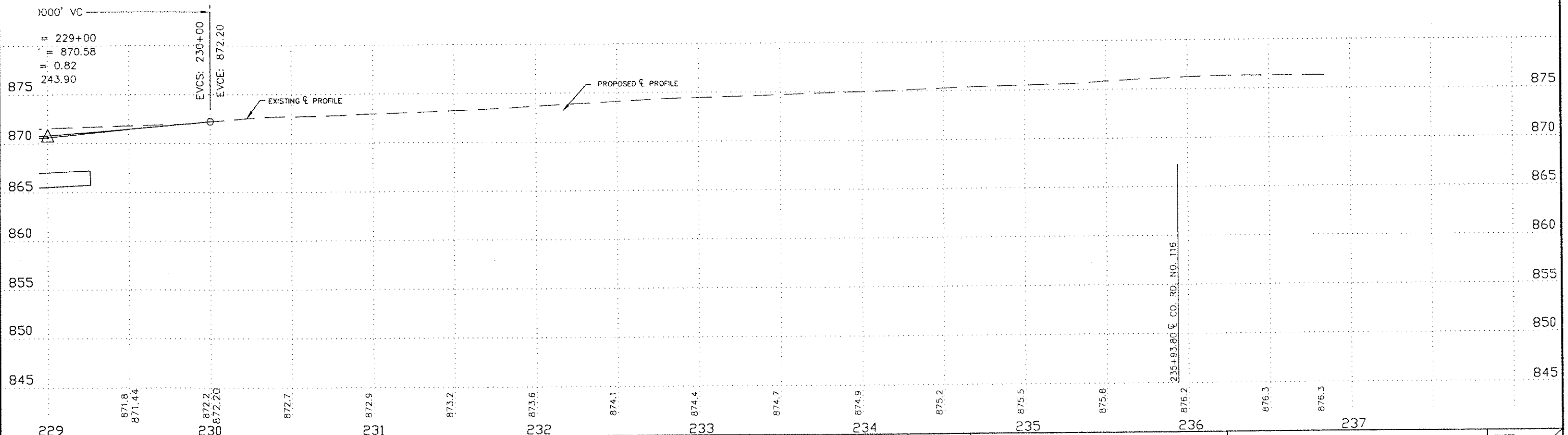
STREET PLAN
 RAMSEY BOULEVARD
 CITY OF RAMSEY, MINNESOTA

SHEET 9R OF 166 SHEETS

RAMSEY BOULEVARD



RECONSTRUCT 8' SHOULDERS WITH FULL-DEPTH BITUMINOUS PAVEMENT FROM STA. 230+00.00 TO STA. 234+00.00



DATE	REVISION

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Peter R. Raatikka
 PETER R. RAATIKKA, P.E.
 Date 3/24/04 Lic. No. 11585

DESIGNED BY: JEJ	DATE: 01/29/04
DRAWN BY: RAA	FILE NO. RA3172
CHECKED BY: PRR	

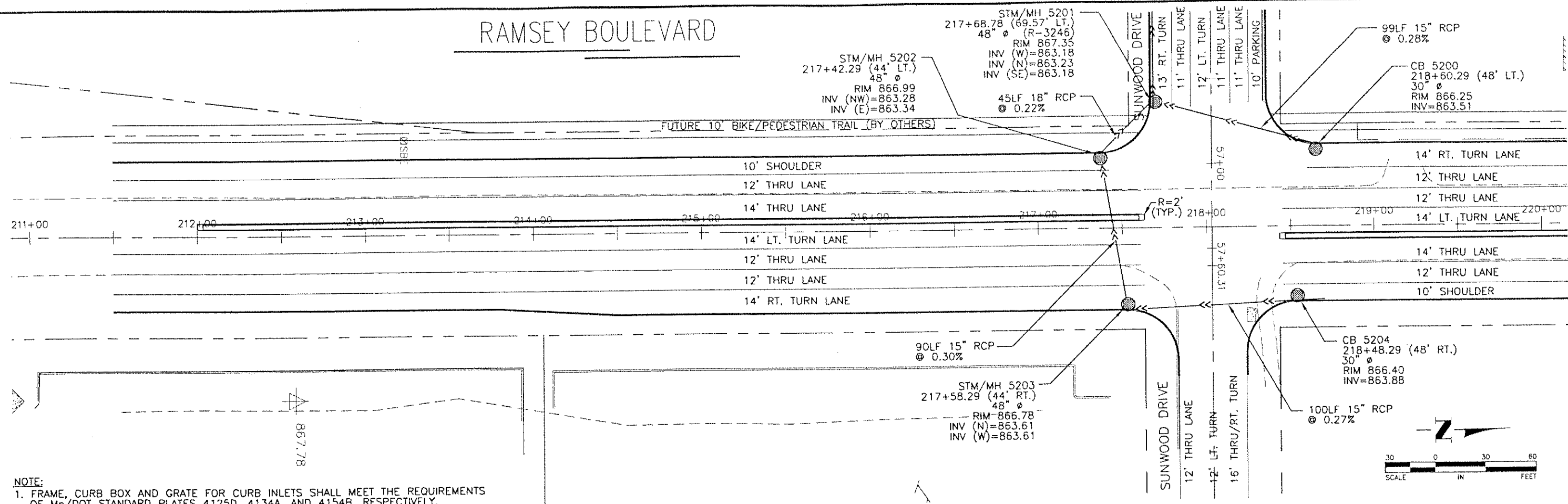
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S.A.P. 199-104-07

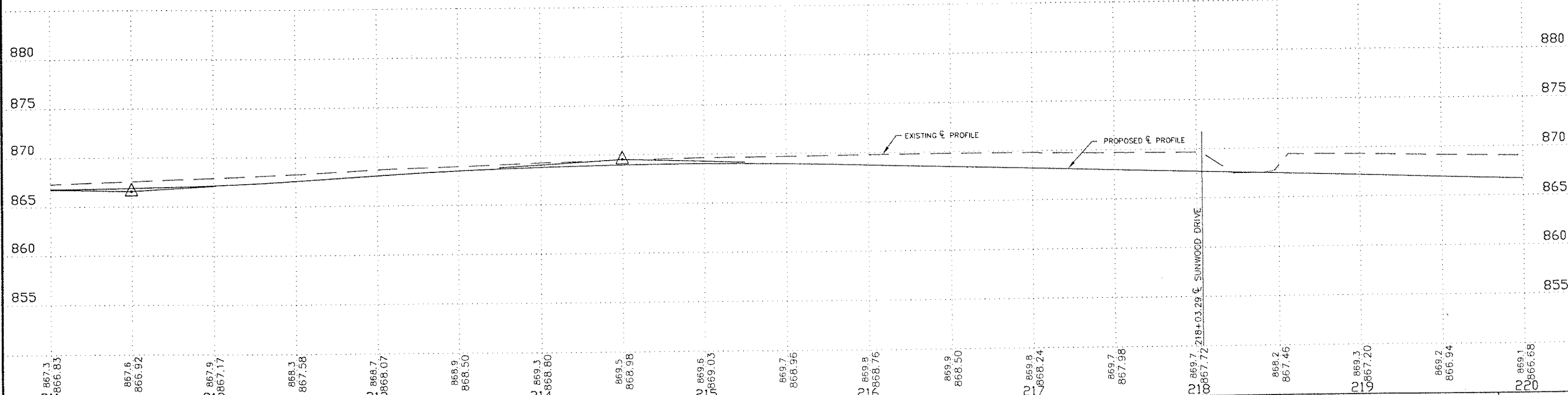
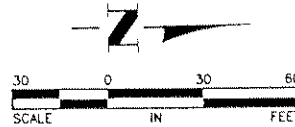
STREET PLAN
 RAMSEY BOULEVARD
 CITY OF RAMSEY, MINNESOTA

SHEET
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 OF
 166
 SHEETS

RAMSEY BOULEVARD

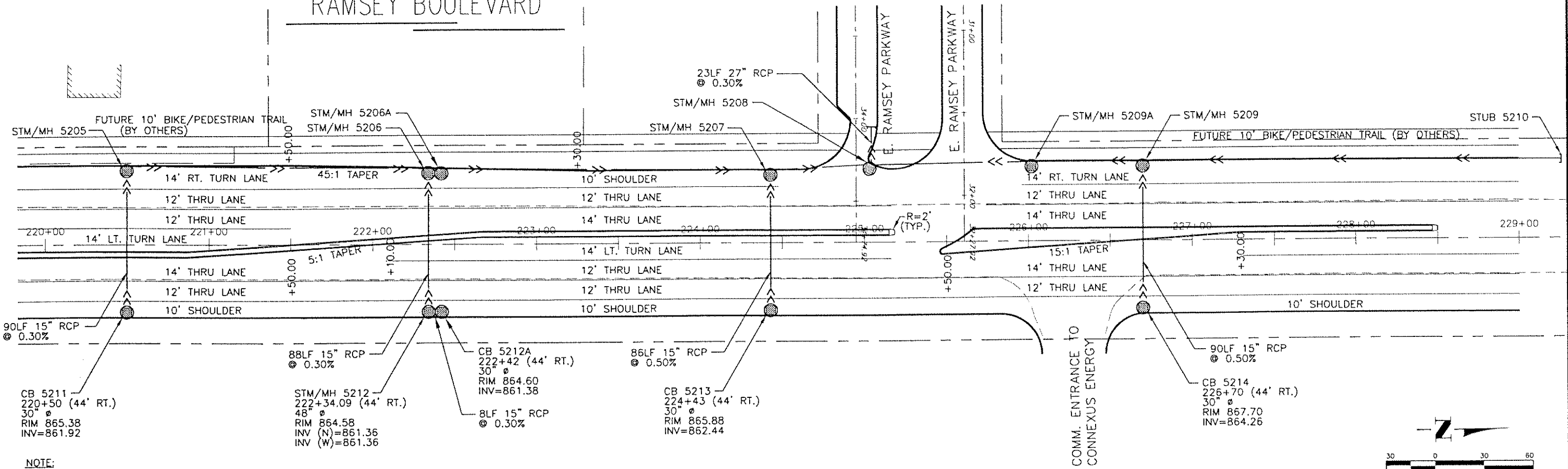


NOTE:
 1. FRAME, CURB BOX AND GRATE FOR CURB INLETS SHALL MEET THE REQUIREMENTS OF Mn/DOT STANDARD PLATES 4125D, 4134A, AND 4154B, RESPECTIVELY.

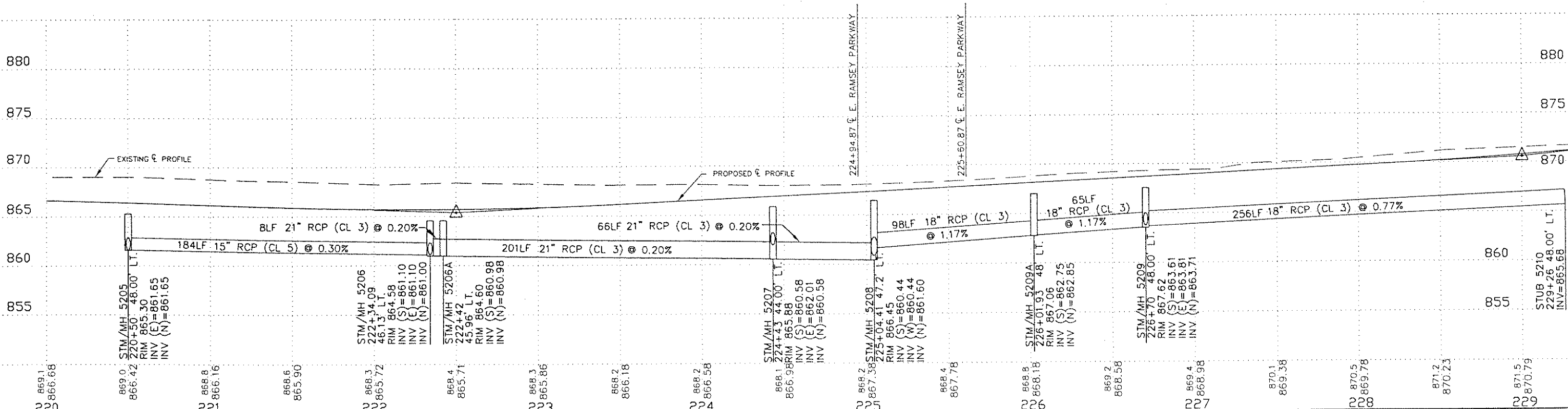
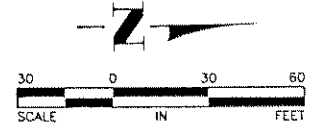


DATE	REVISION	I hereby certify that this plan, specification, or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.  PETER R. RAATIKKA, P.E. Date: 3/24/04 Lic. No. 11586	DESIGNED BY: JEJ	 Hakanson Anderson Assoc., Inc. Civil Engineers and Land Surveyors 3601 Thurston Ave., Anoka, Minnesota 55303 763-427-5560 FAX 763-427-0520 www.hakanson-anderson.com	S.A.P. 199-104-07	STORM SEWER PLAN RAMSEY BOULEVARD CITY OF RAMSEY, MINNESOTA	SHEET 11R OF 166 SHEETS
			DRAWN BY: RAA				
			CHECKED BY: PRR	FILE NO.: RA3172			

RAMSEY BOULEVARD



NOTE:
 1. FRAME, CURB BOX AND GRATE FOR CURB INLETS SHALL MEET THE REQUIREMENTS OF Mn/DOT STANDARD PLATES 4125D, 4134A, AND 4154B, RESPECTIVELY.



DATE	REVISION	DESIGNED BY	DATE	PROJECT	SHEET
		JEU	01/29/04	RAMSEY BOULEVARD	12R
		RAA			
		PRR			

I hereby certify that this plan, specification, or report 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.
 PETER R. RAATIKKA, P.E.
 Date 3/24/04 Lic. No. 11586

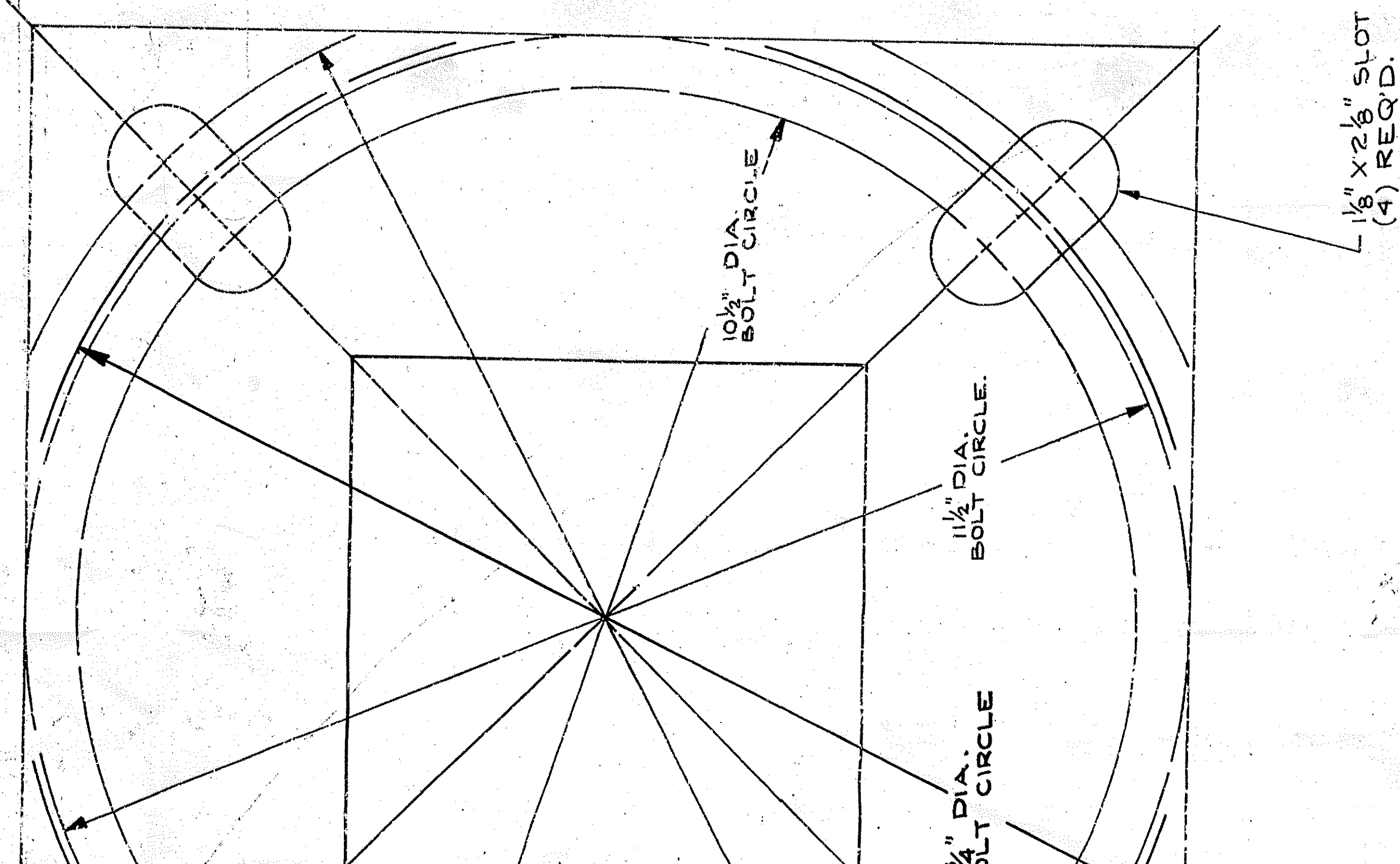


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STORM SEWER PLAN
 RAMSEY BOULEVARD
 CITY OF RAMSEY, MINNESOTA

SHEET 12R OF 166 SHEETS

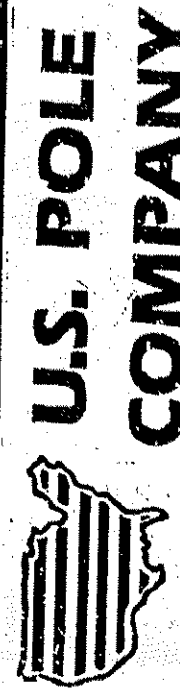


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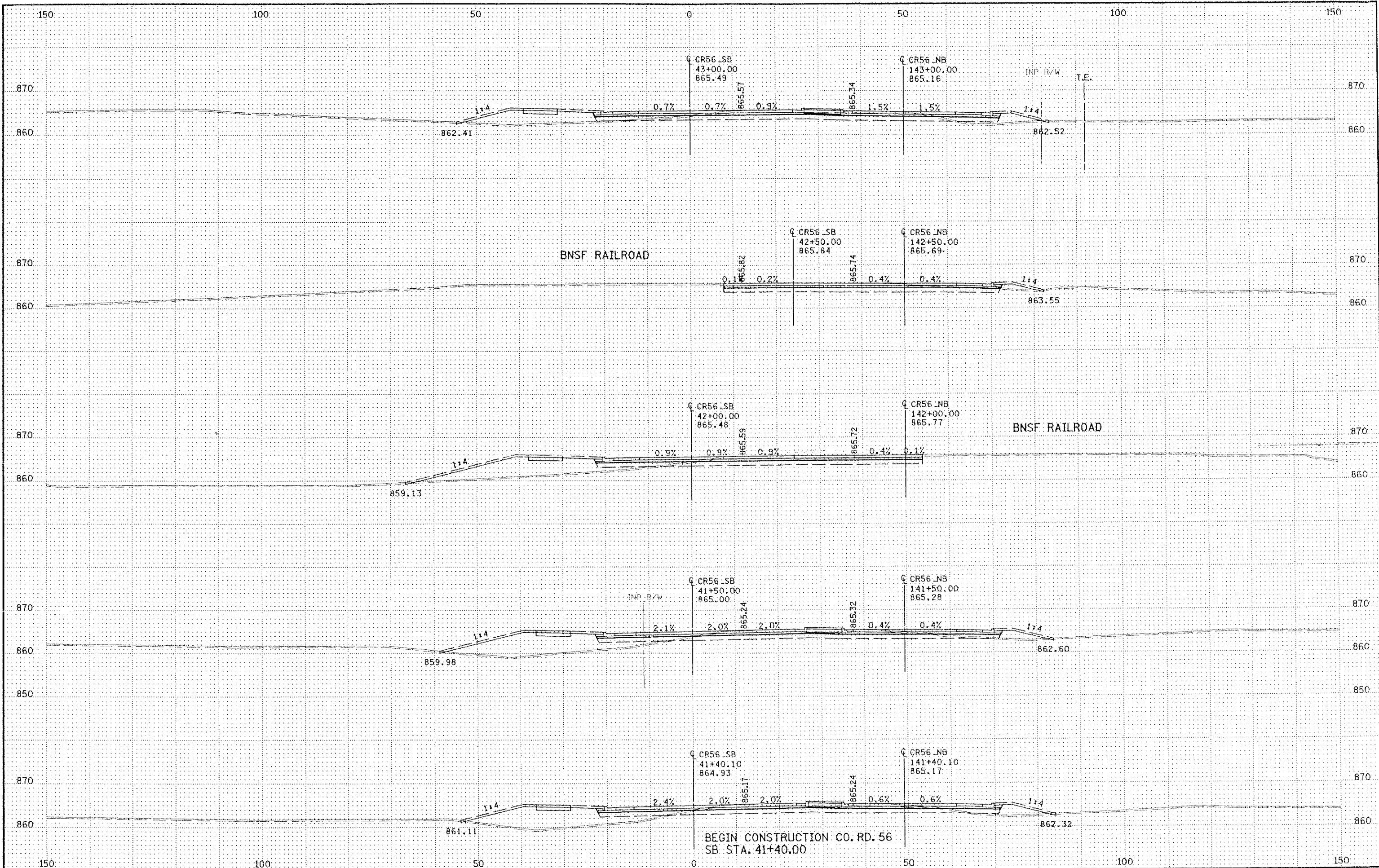
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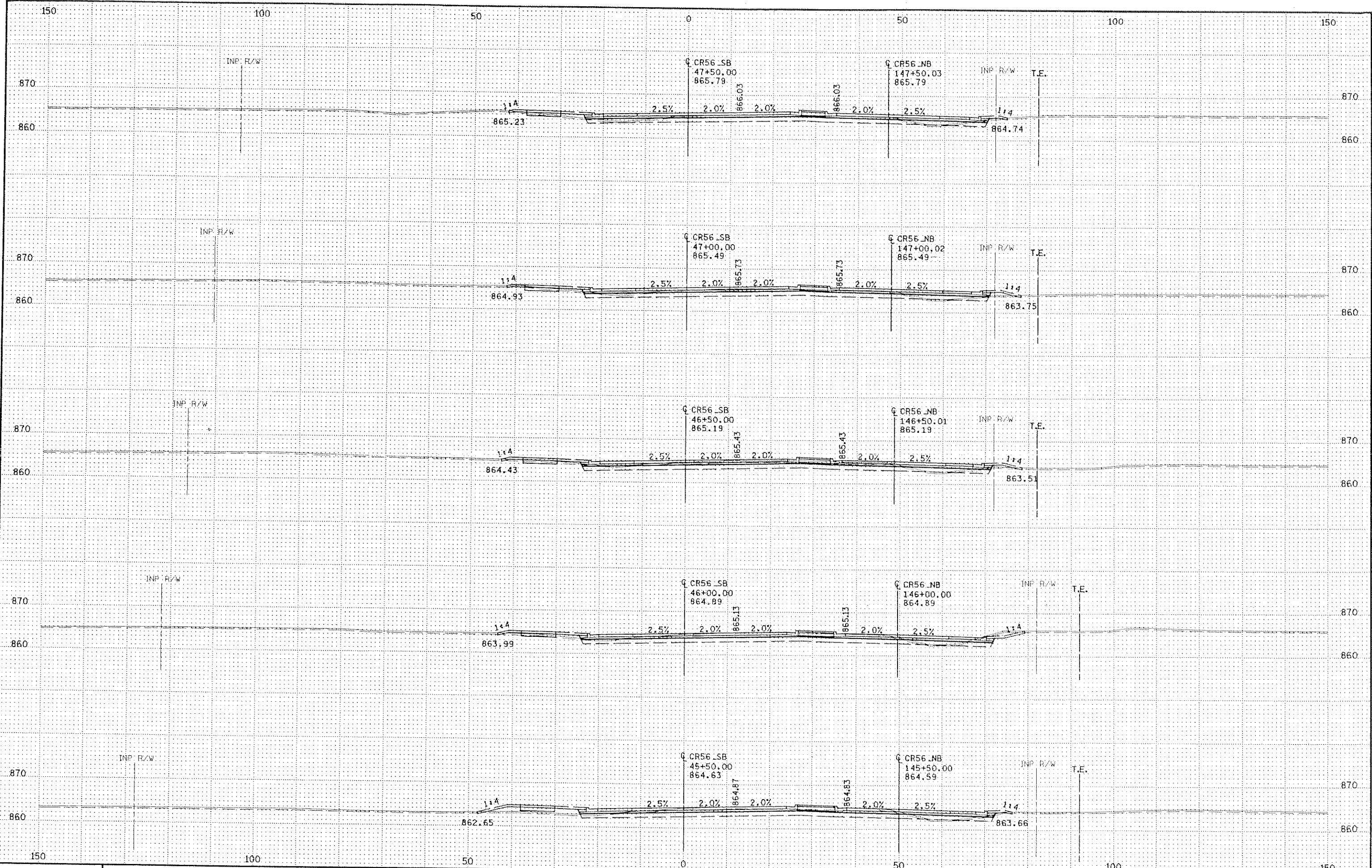
CERTIFIED BY *James W. Jones* LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

CROSS SECTIONS
 STA. 41+40.00 TO STA. 43+00

C.P. 05-20
 Sheet No. X1 of 94 Sheets

DATE: 3/2/2006 TIME: 3:34:25 PM
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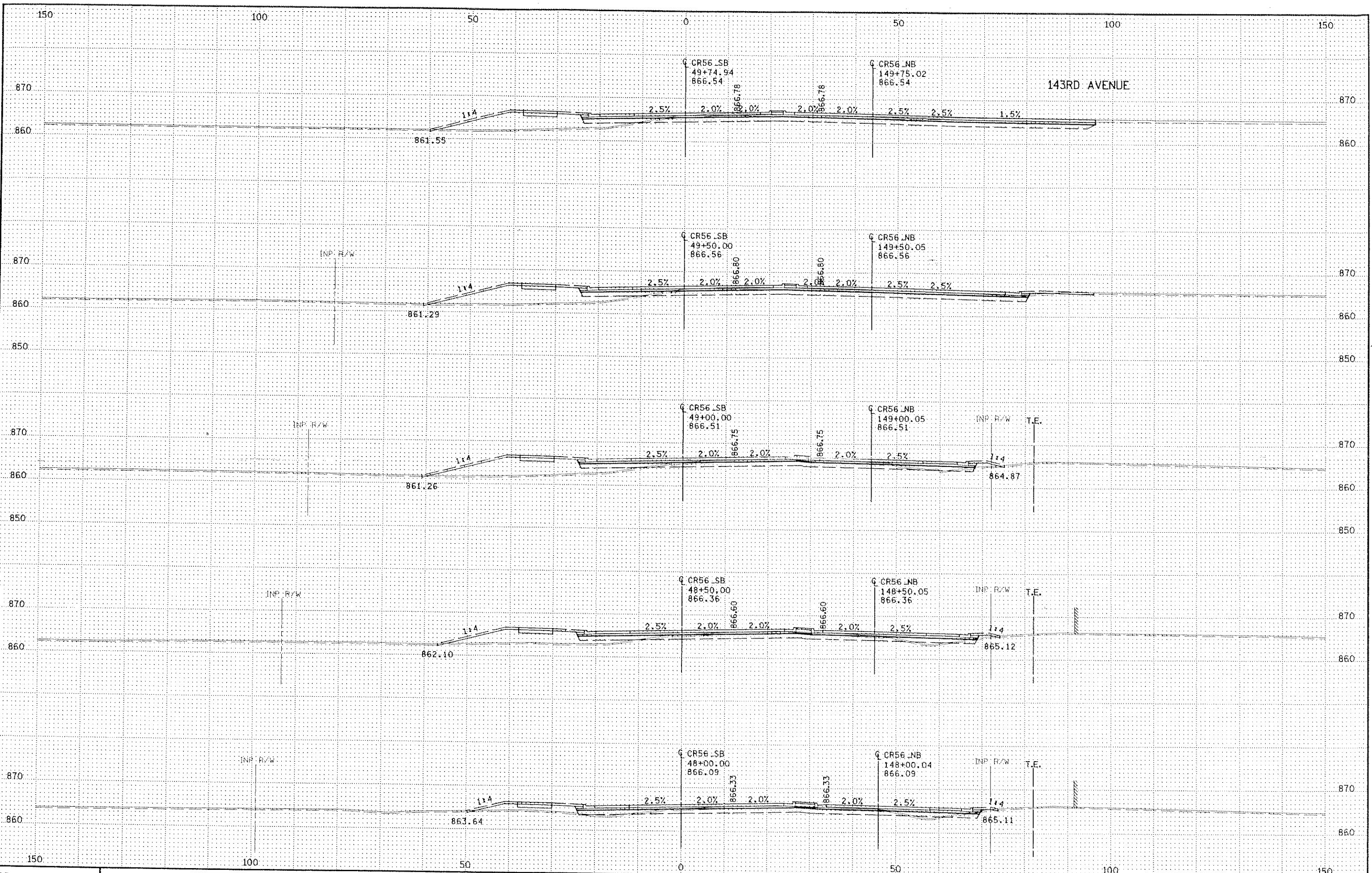
CERTIFIED BY: *Joseph W. Jones*
LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVAL, ANDERSON
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CROSS SECTIONS
STA. 45+50 TO STA. 47+50

C.P. 05-20
Sheet No. X3 of 94 Sheets

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CERTIFIED BY: *Joseph W. Jones*
LICENSED PROFESSIONAL ENGINEER

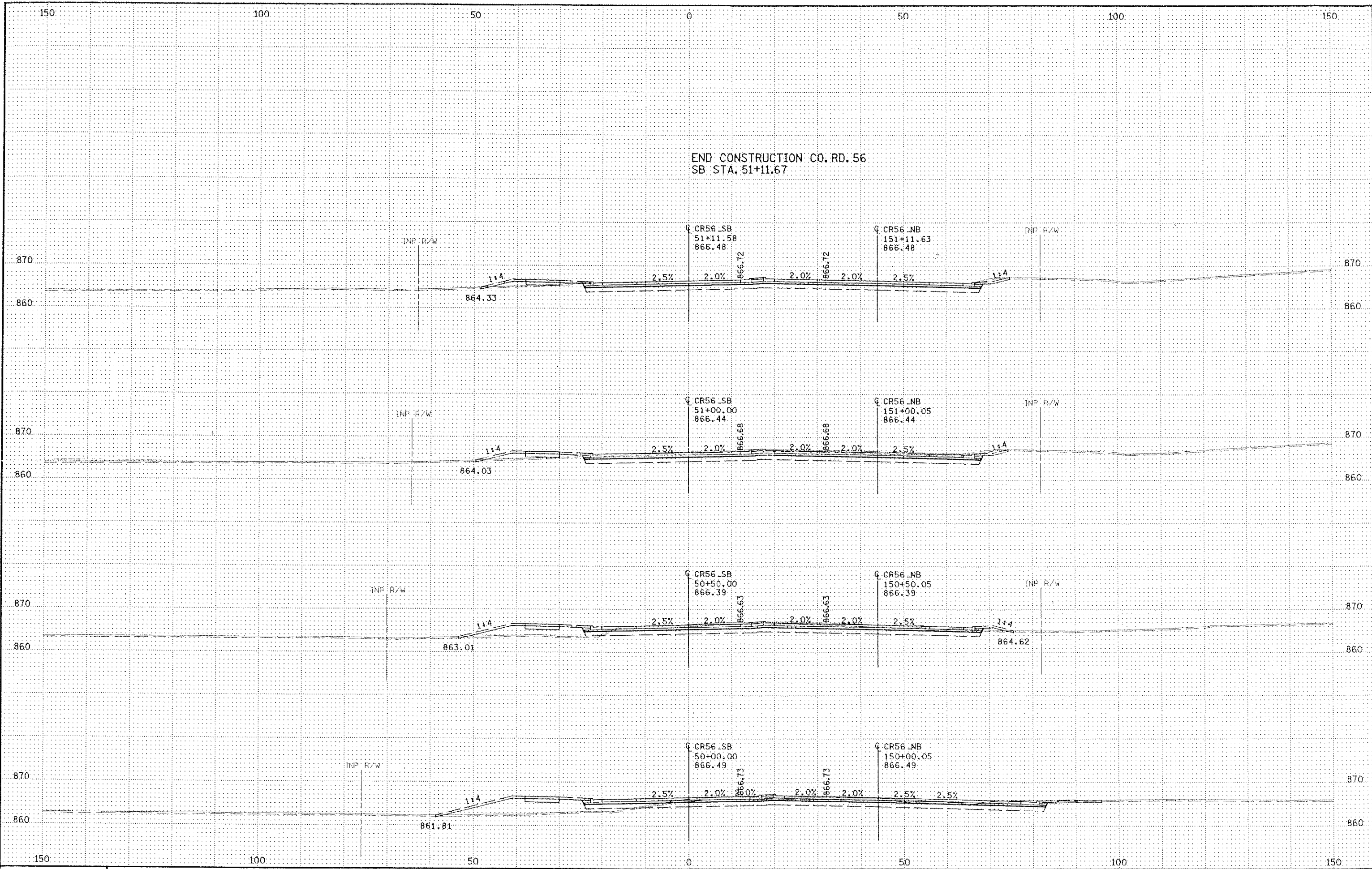
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CROSS SECTIONS
STA. 48+00 TO STA. 49+74.94

C.P. 05-20
Sheet No. X4 of 94 Sheets

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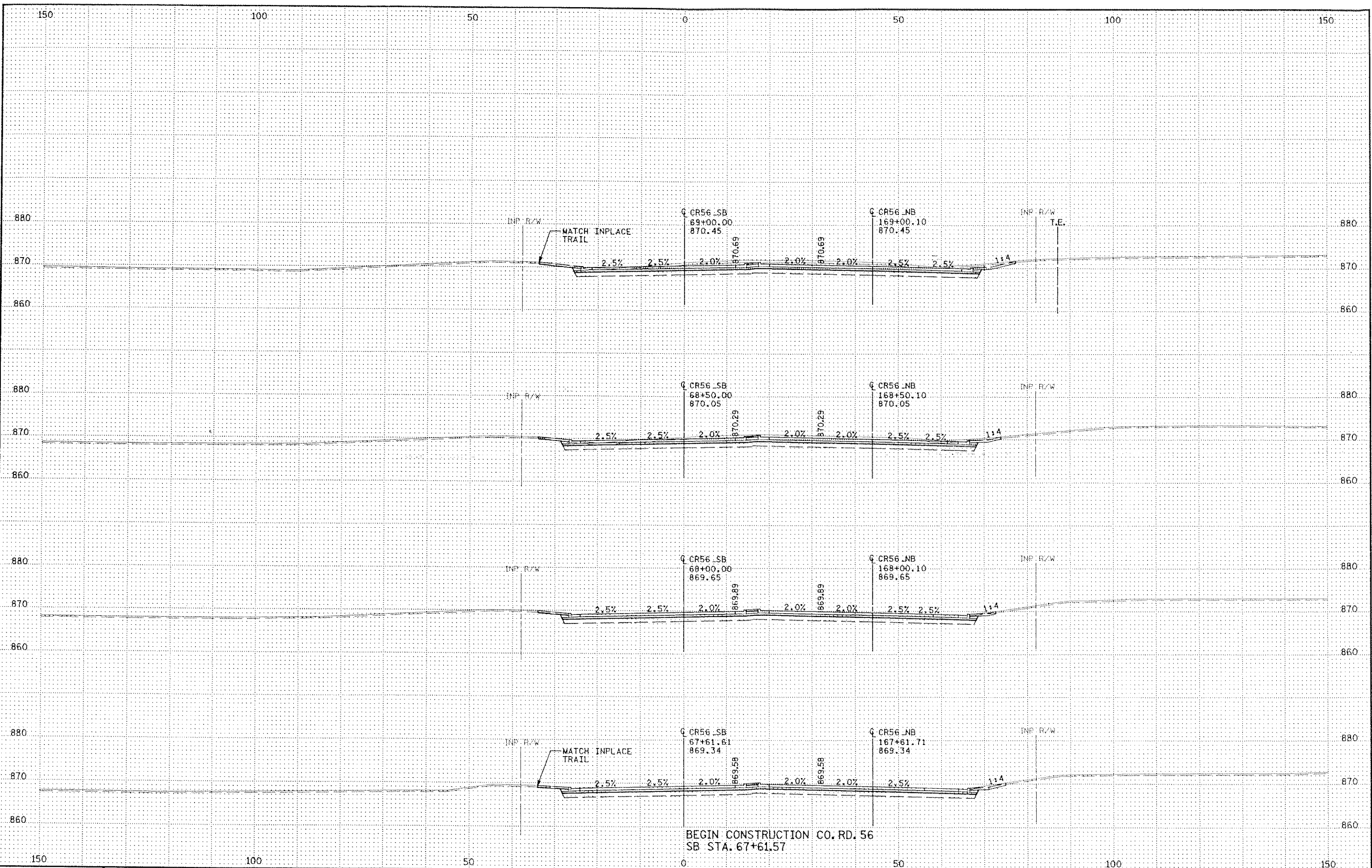
CERTIFIED BY *Joseph Warner* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

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CROSS SECTIONS
STA. 50+00 TO STA. 51+11.58

C.P. 05-20
Sheet No. X5 of 94 Sheets

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BEGIN CONSTRUCTION CO. RD. 56
SB STA. 67+61.57

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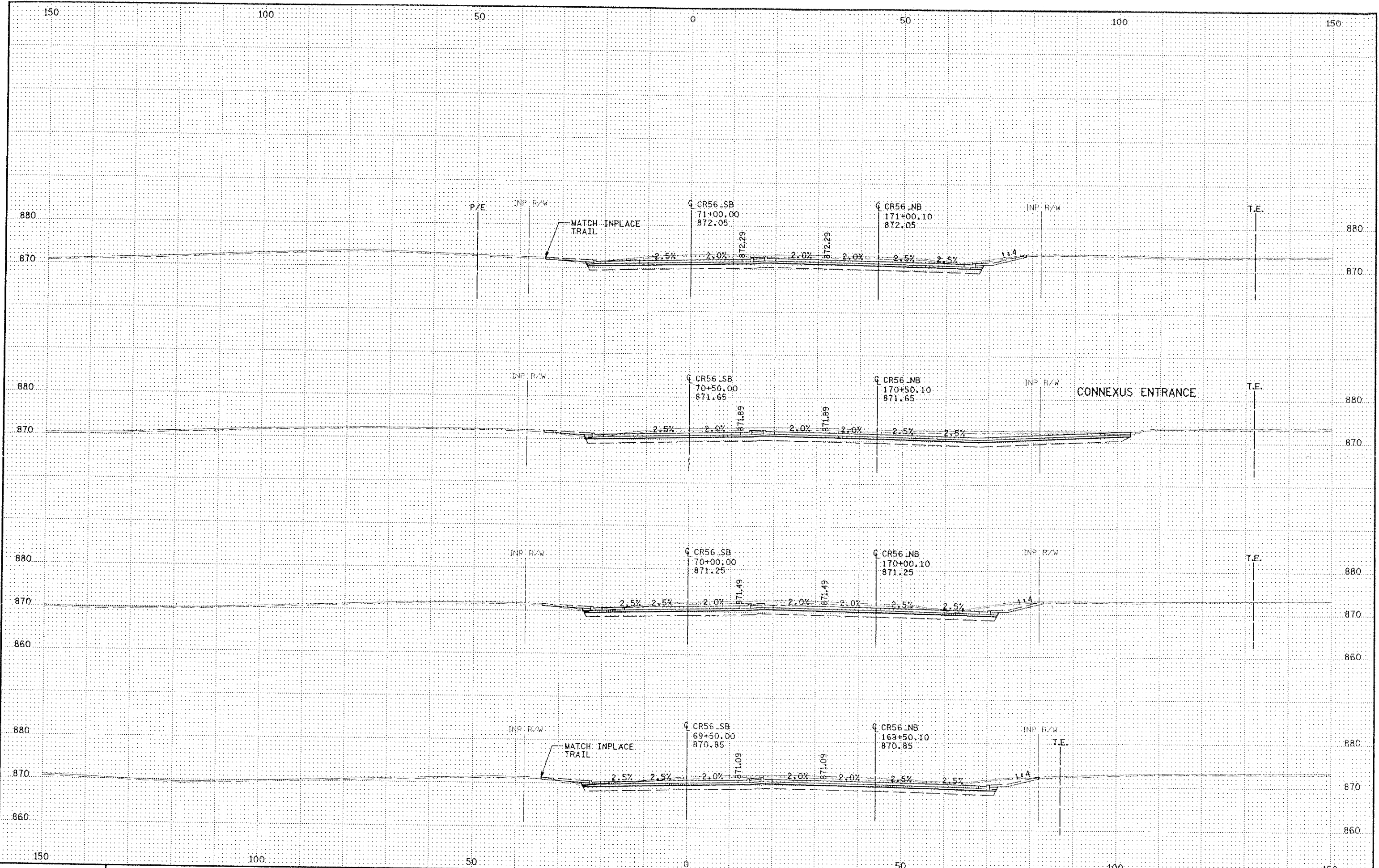
CERTIFIED BY: *Joseph W. Jones*
LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
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AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

CROSS SECTIONS
STA. 67+61.61 TO STA. 69+00

C.P. 05-20
Sheet No. X6 of 94 Sheets

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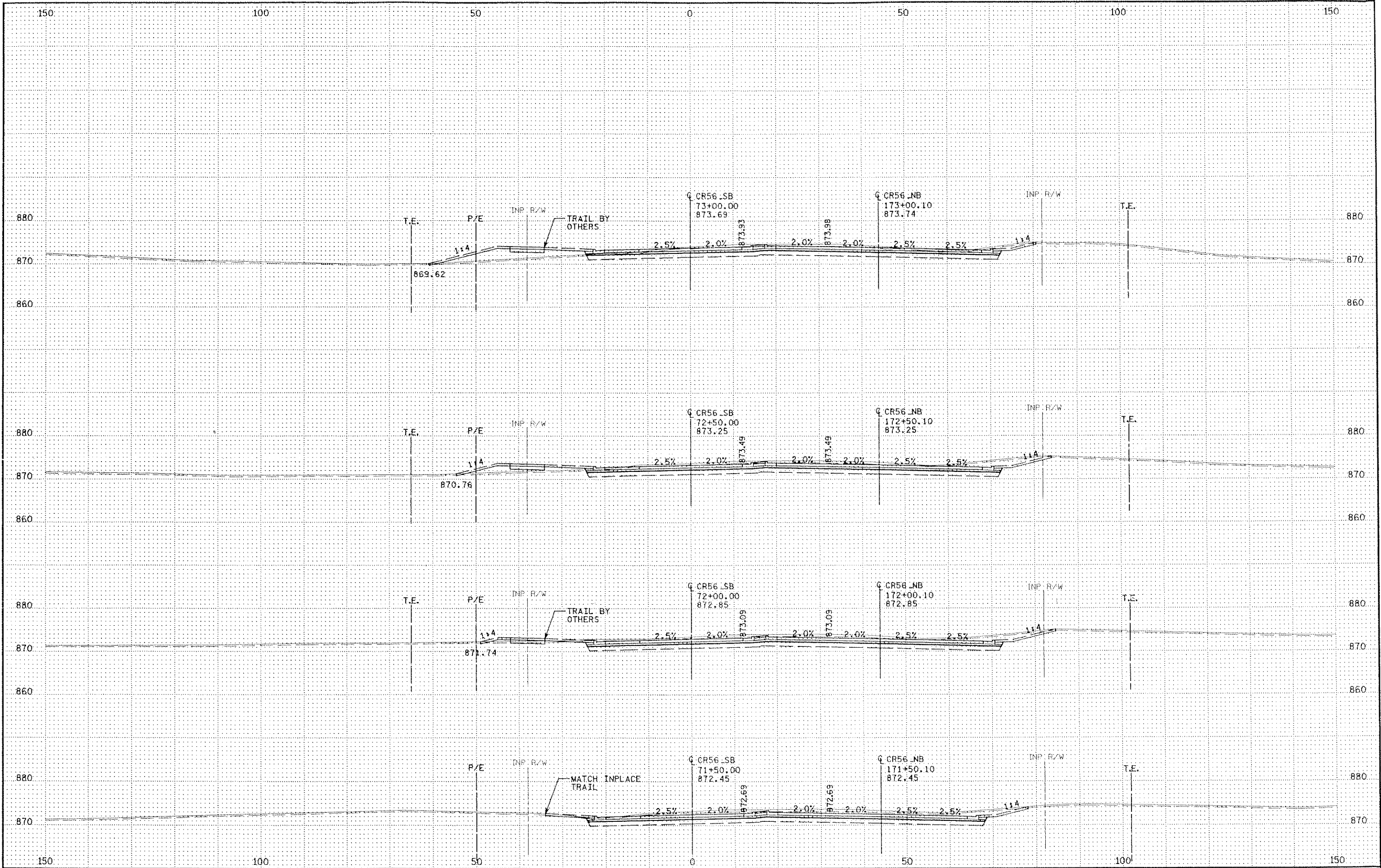
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 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

TKDA
 TOLTZ, KING, DUWALL, ANDERSON
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 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

CROSS SECTIONS
 STA. 69+50 TO STA. 71+00

C.P. 05-20
 Sheet No. X7 of 94 Sheets

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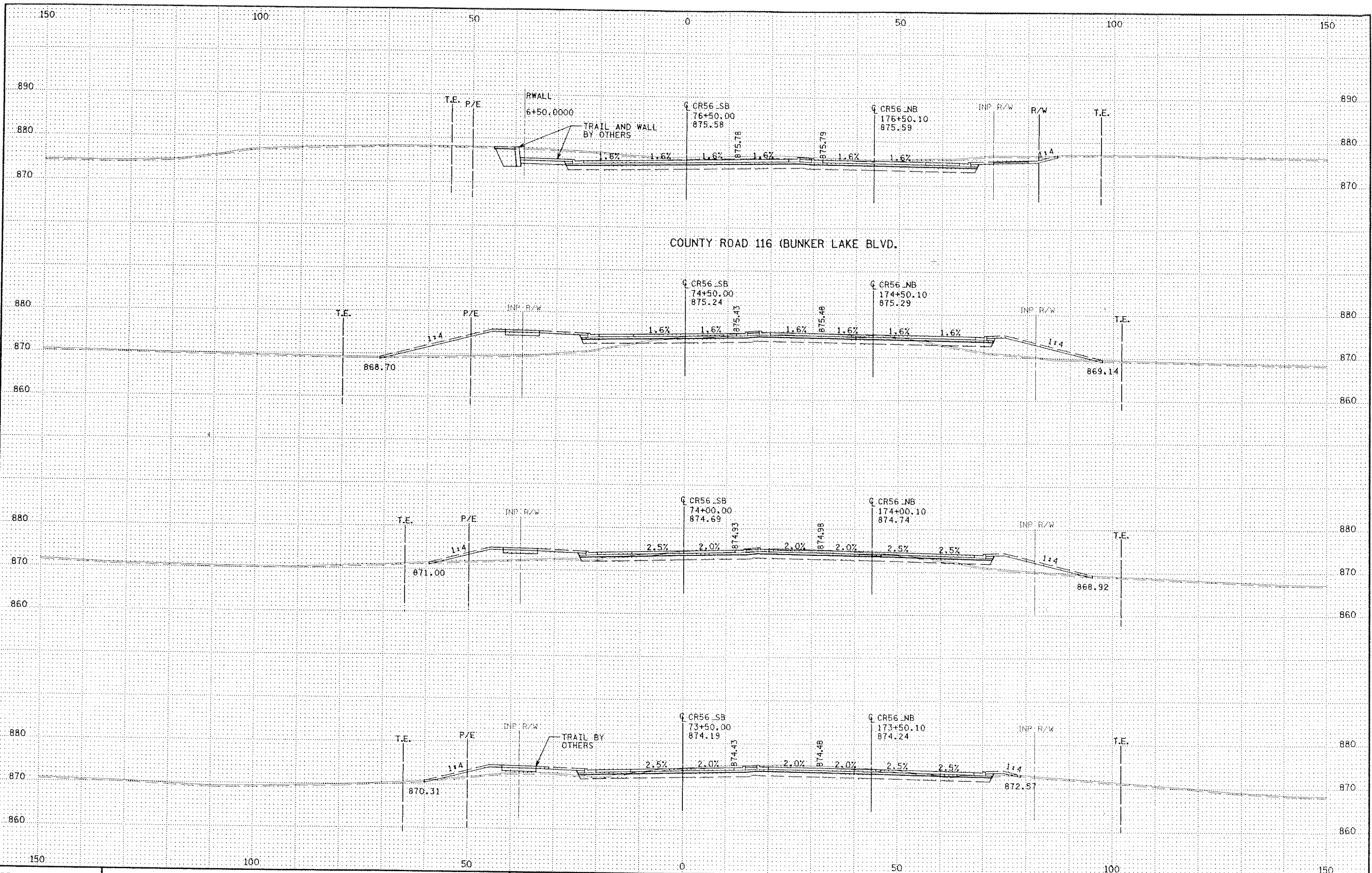
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 LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
 ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

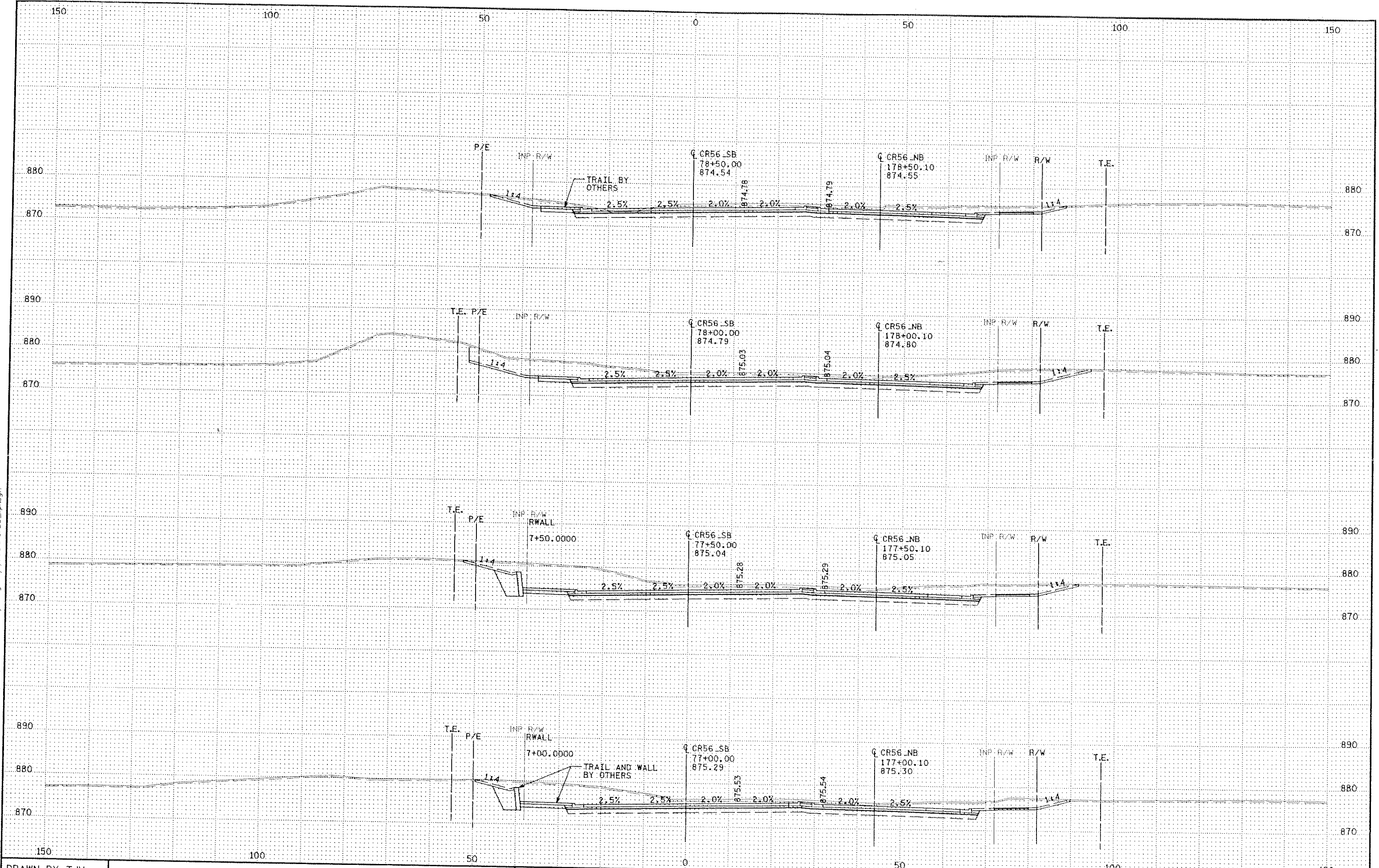
CROSS SECTIONS
 STA. 71+50 TO STA. 73+00

C.P. 05-20
 Sheet No. X8 of 94 Sheets

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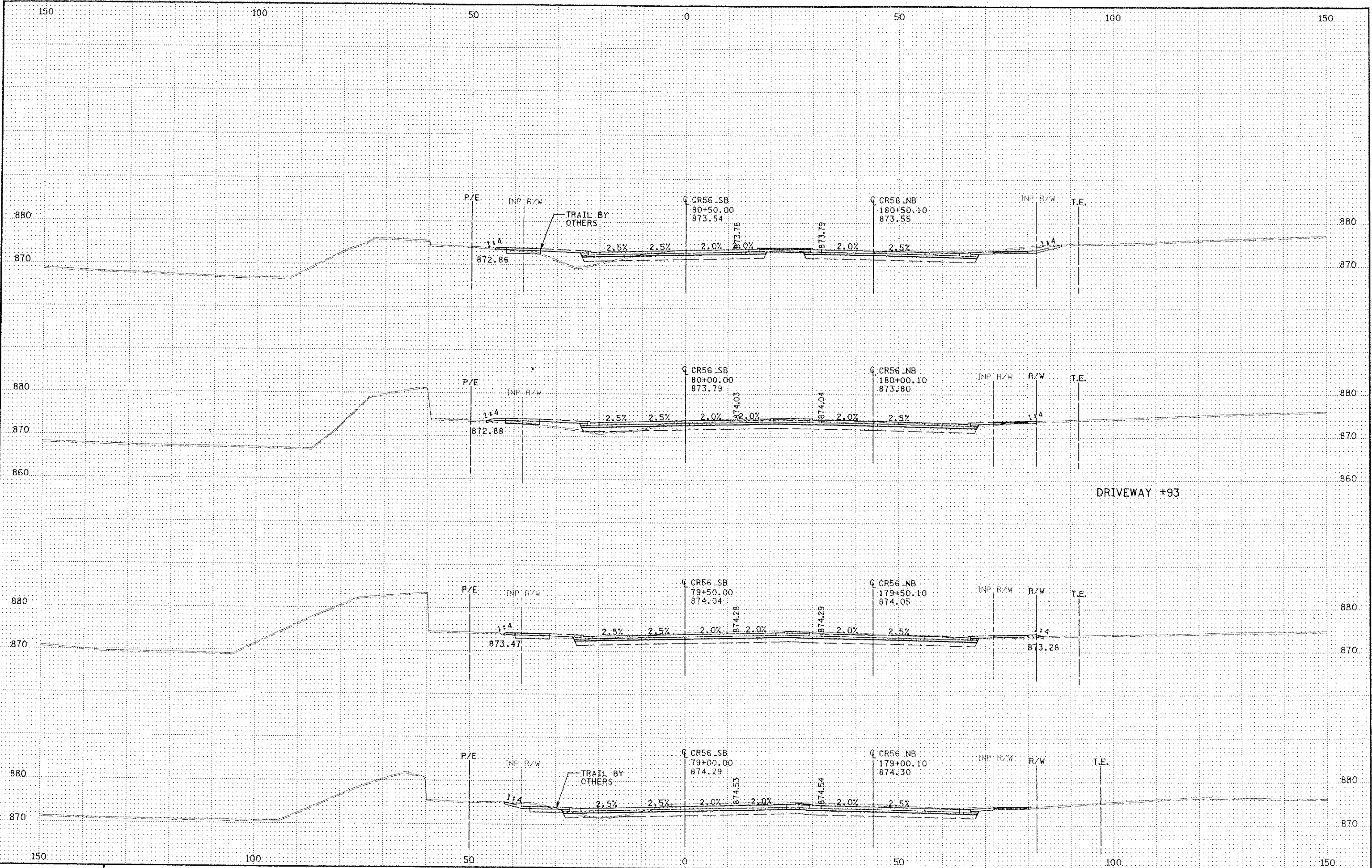
CERTIFIED BY *David Warner* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

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AND ASSOCIATES, INCORPORATED
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CROSS SECTIONS
STA. 77+00 TO STA. 78+50

C.P. 05-20
Sheet No. X10 of 94 Sheets

DATE: 3/2/2006 TIME: 3:36:02 PM
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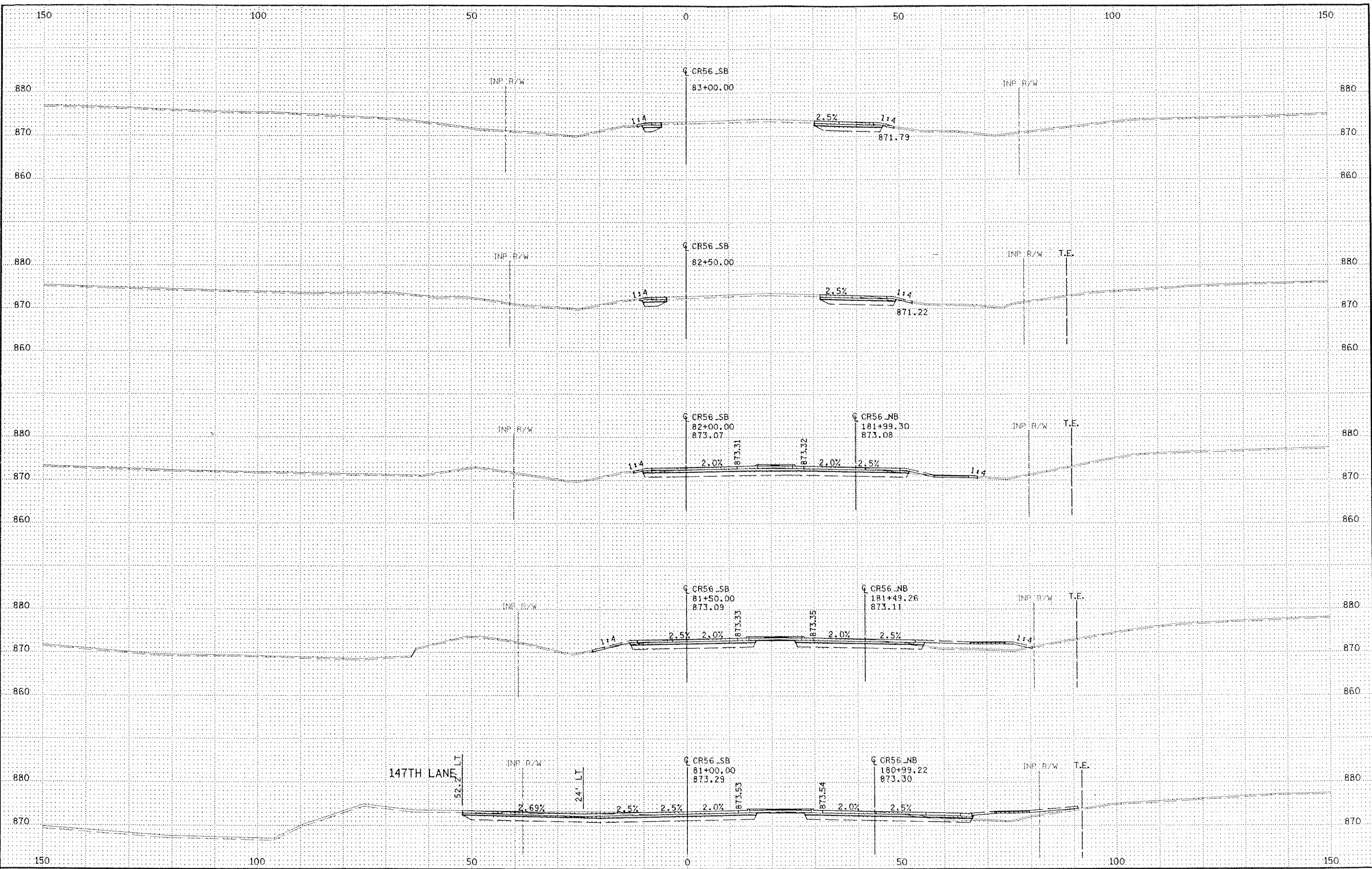
CERTIFIED BY: *Joseph W. Jones*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

TKDA
 TOLTZ, KING, DUVALL, ANDERSON
 AND ASSOCIATES, INCORPORATED
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CROSS SECTIONS
 STA. 79+00 TO STA. 80+50

C.P. 05-20
 Sheet No. X11 of 94 Sheets

DATE: 3/2/2006 TIME: 3:36:14 PM
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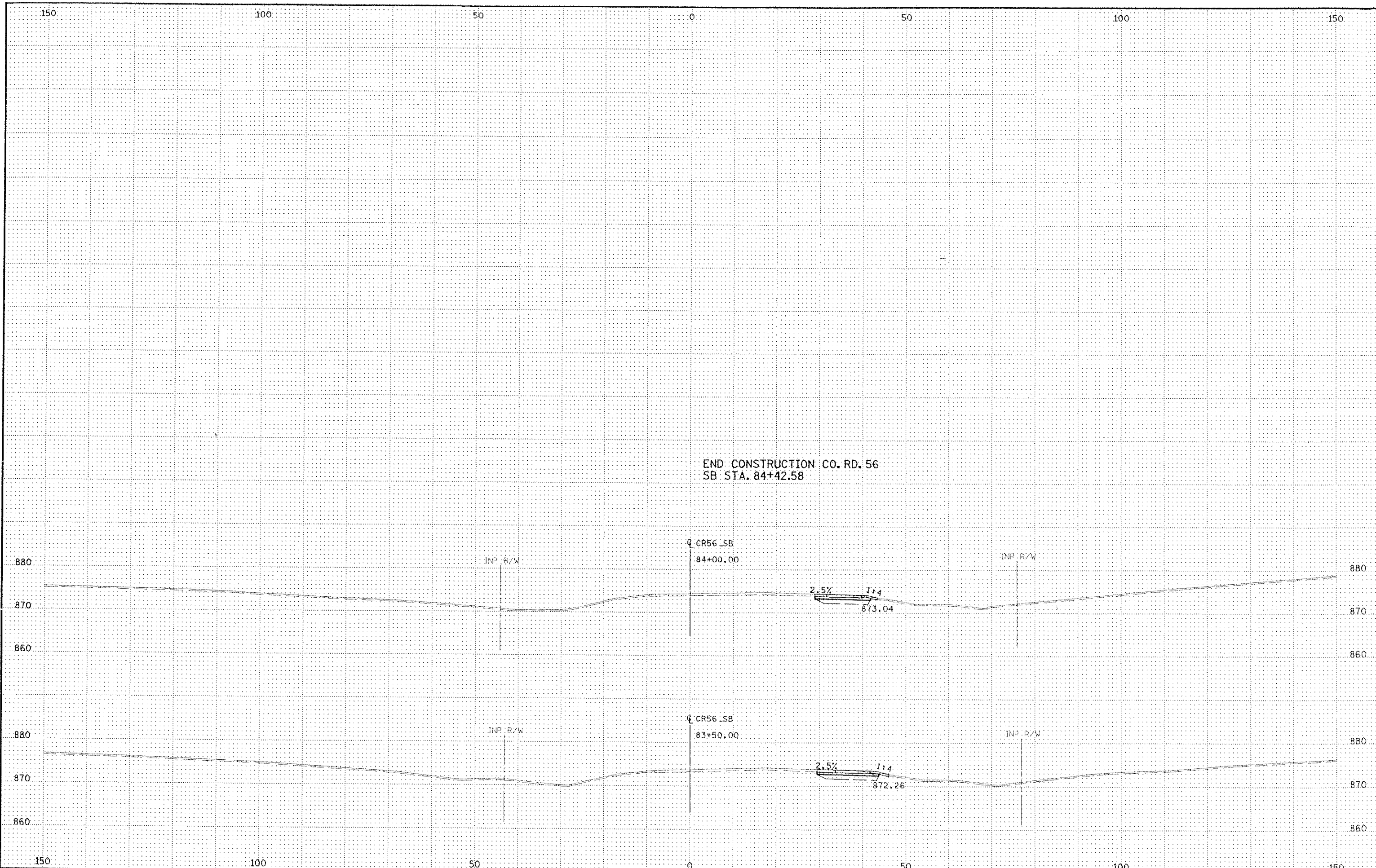
CERTIFIED BY: *Joseph Weaver*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

TKDA
 TOLTZ, KING, DUVALL, ANDERSON
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CROSS SECTIONS
 STA. 81+00 TO STA. 83+00

C.P. 05-20
 Sheet No. X12 of 94 Sheets

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DRAWN BY: TJV

CHECKED BY: JMW

CERTIFIED BY *Joseph W. W...* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

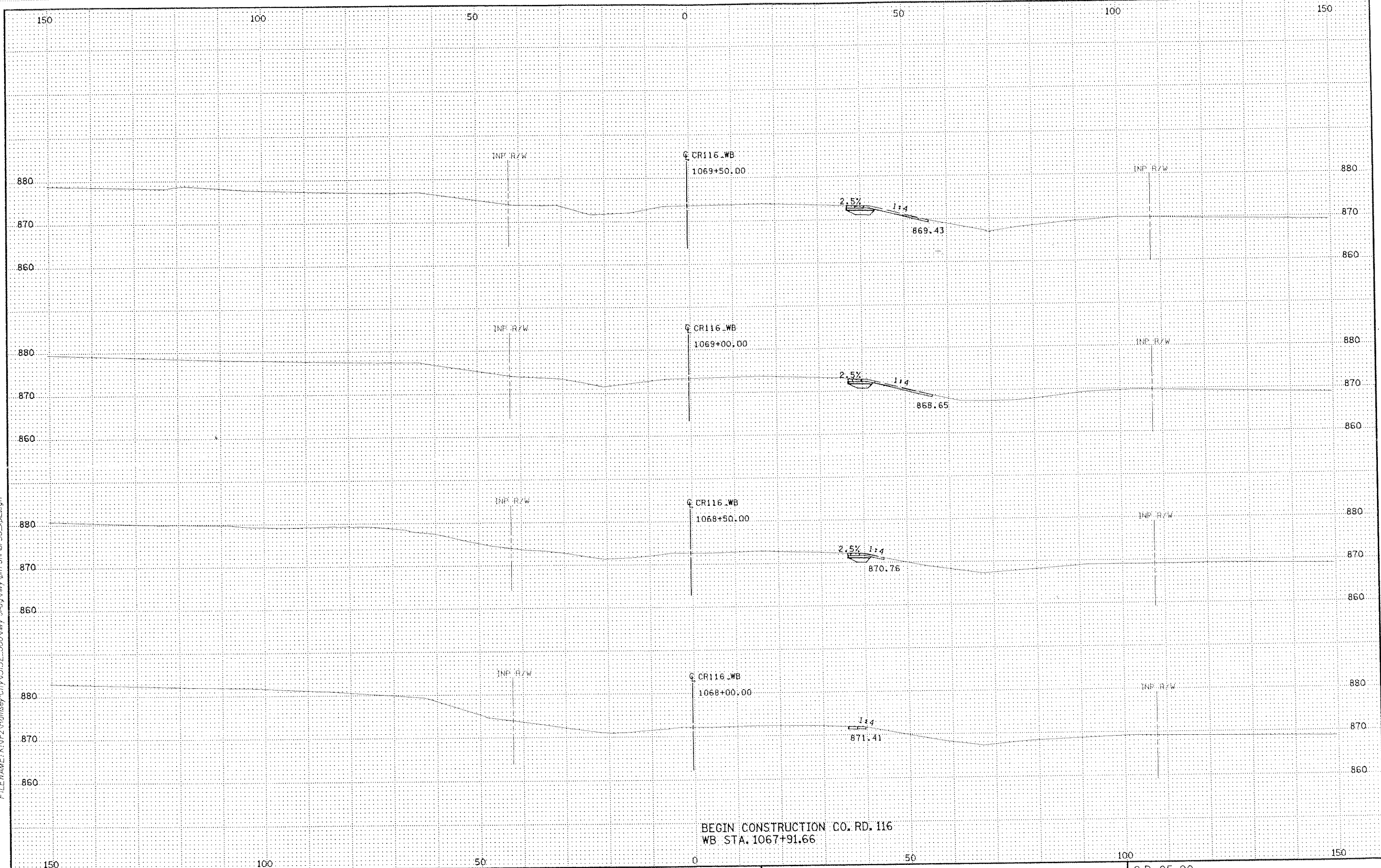
TKDA
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CROSS SECTIONS
STA. 83+50 TO STA. 85+00

C.P. 05-20

Sheet No. X13 of 94 Sheets

DATE: 3/2/2006 TIME: 3:30:40 PM
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BEGIN CONSTRUCTION CO. RD. 116
WB STA. 1067+91.66

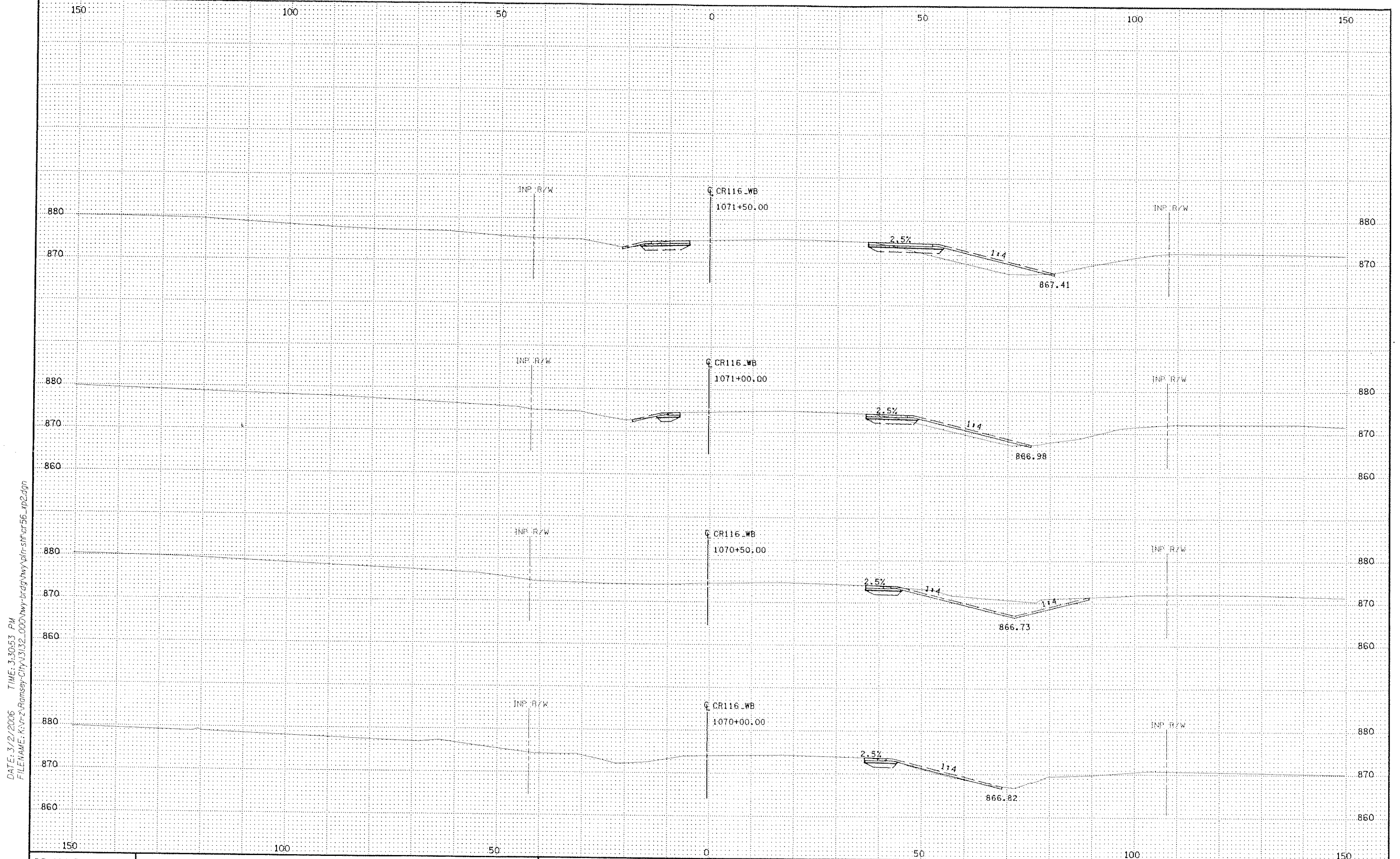
DRAWN BY: TJV
CHECKED BY: JMW

CERTIFIED BY *Joseph W. Jones* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

TKDA
TOLTZ, KING, DUVALL, ANDERSON
AND ASSOCIATES, INCORPORATED
ENGINEERS-ARCHITECTS-PLANNERS SAINT PAUL, MINNESOTA

CROSS SECTIONS
STA. 1068+00 TO STA. 1069+50

C.P. 05-20
Sheet No. X14 of 94 Sheets



DATE: 3/27/2006 TIME: 3:30:53 PM
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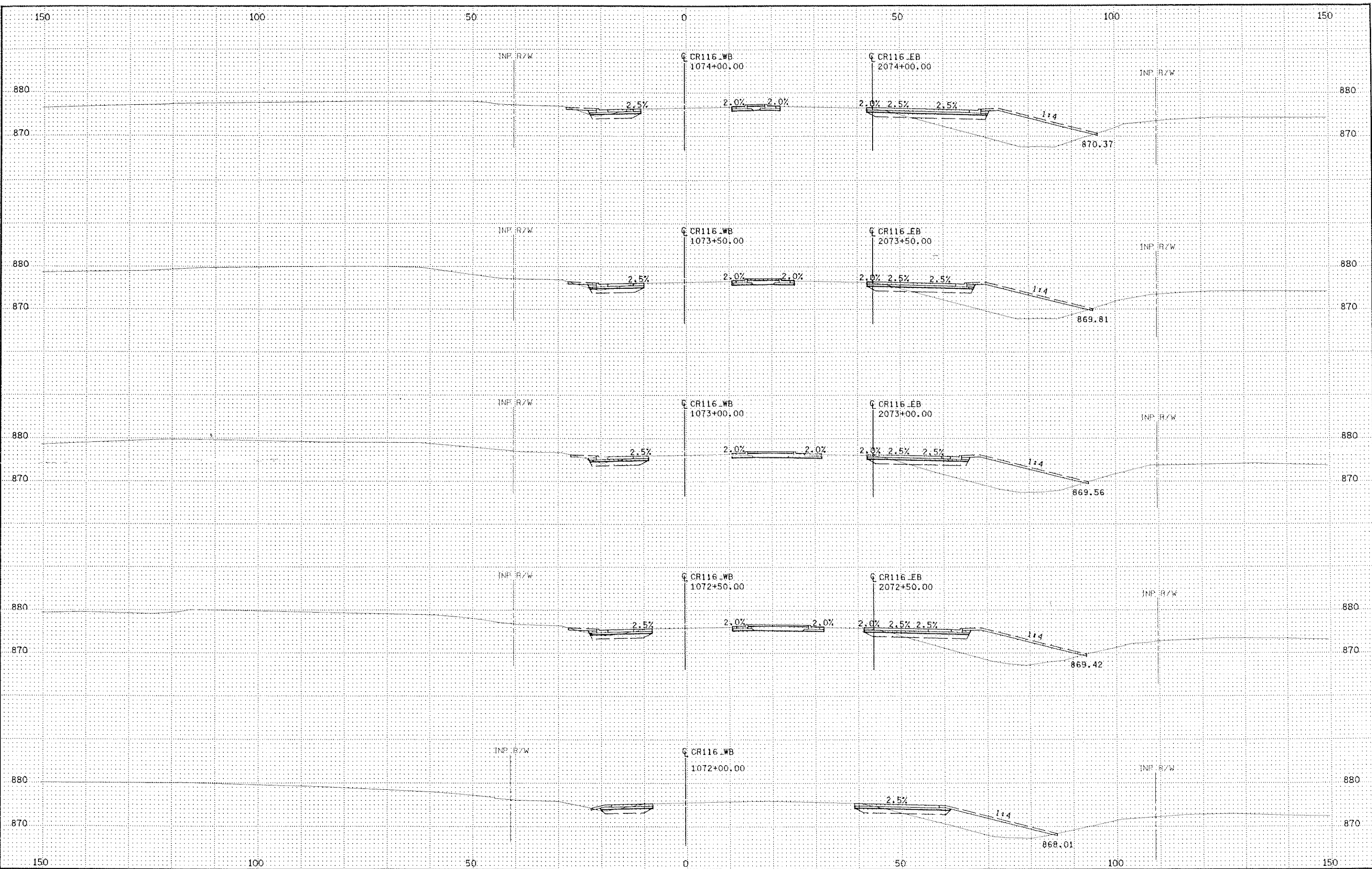
CERTIFIED BY: *[Signature]*
 LIC. NO. 22405 DATE 3-1-06
 LICENSED PROFESSIONAL ENGINEER

TKDA
 TOLTZ, KING, DUVAL, ANDERSON
 AND ASSOCIATES, INCORPORATED
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CROSS SECTIONS
 STA. 1070+00 TO STA. 1071+50

C.P. 05-20
 Sheet No. X15 of 94 Sheets

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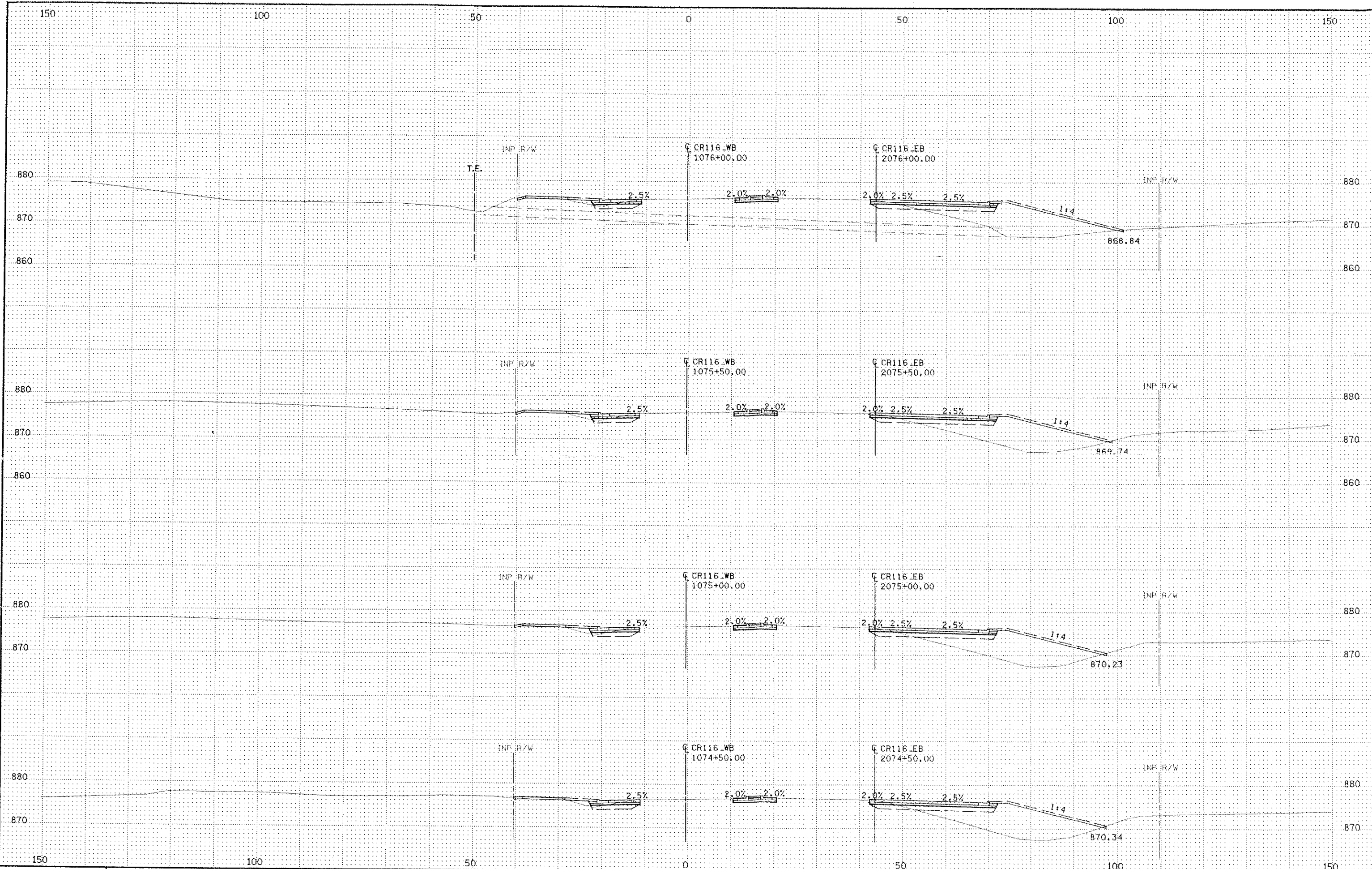
CERTIFIED BY: *James W. Jones*
LIC. NO. 22405 DATE 3-1-06
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CROSS SECTIONS
STA. 1072+00 TO STA. 1074+00

C.P. 05-20
Sheet No. X16 of 94 Sheets

DATE: 3/2/2006 TIME: 3:34:16 PM
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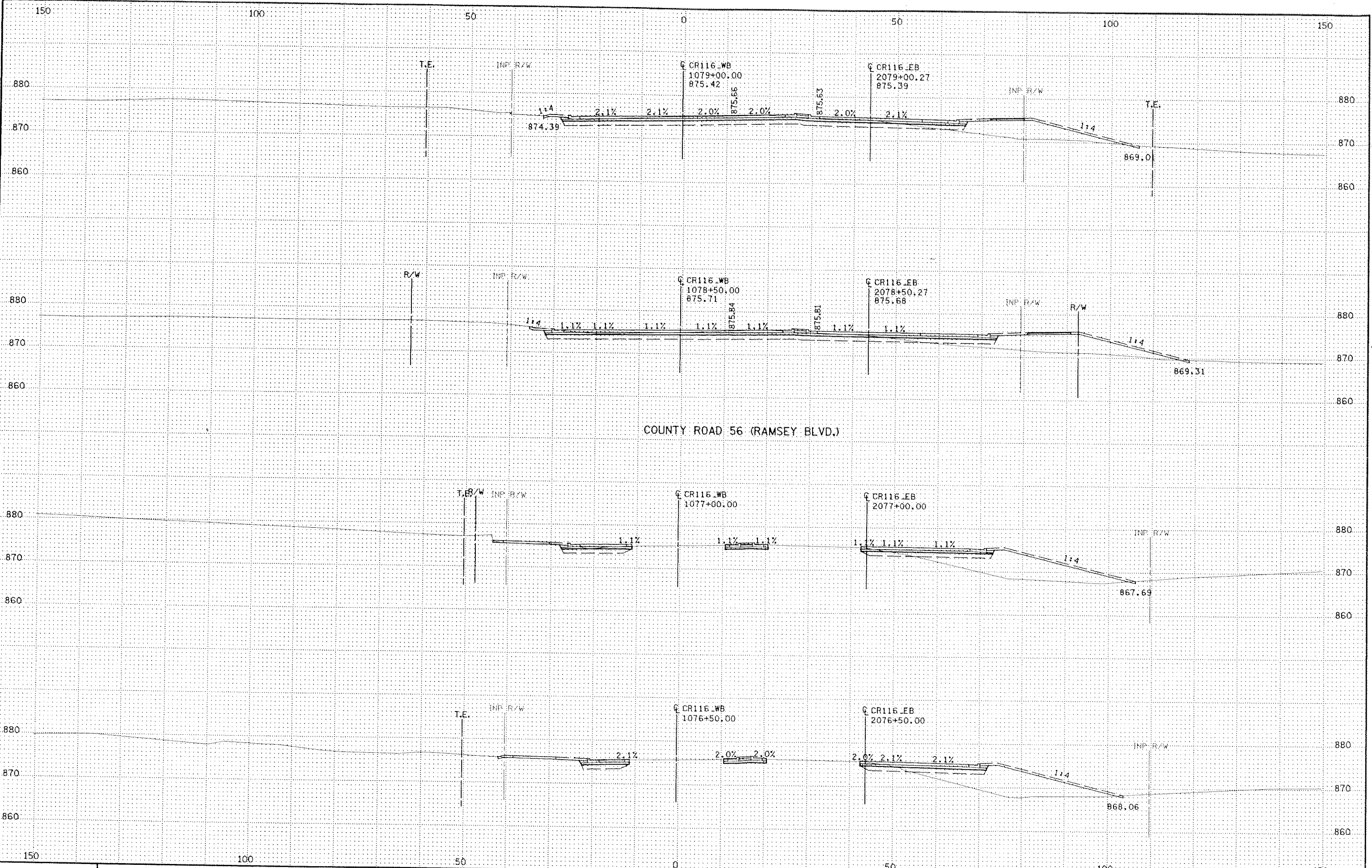
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LIC. NO. 22405 DATE 3-1-06
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CROSS SECTIONS
STA. 1074+50 TO STA. 1076+00

C.P. 05-20
Sheet No. X17 of 94 Sheets

DATE: 3/2/2006 TIME: 3:31:28 PM
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COUNTY ROAD 56 (RAMSEY BLVD.)

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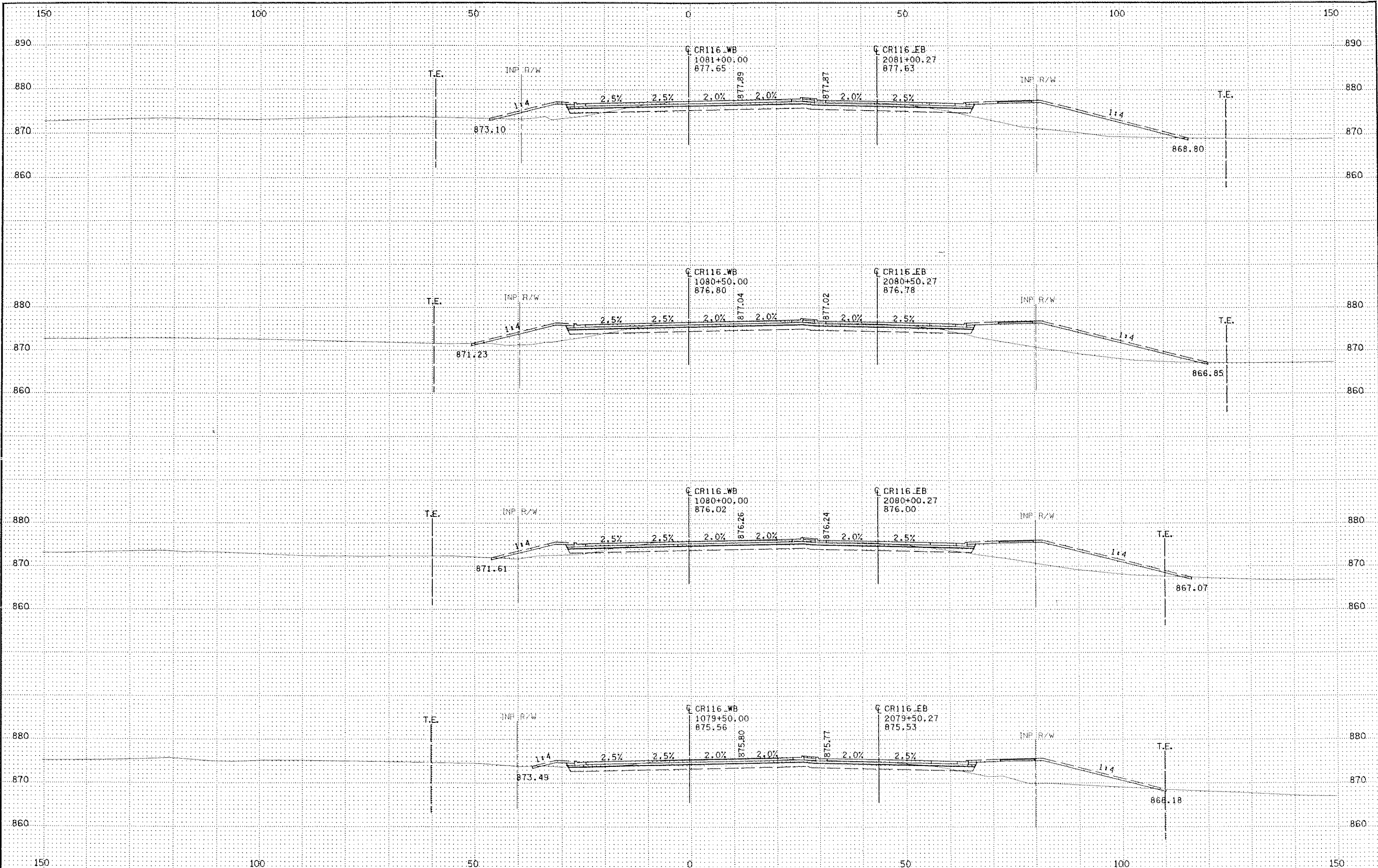
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CROSS SECTIONS
STA. 1076+50 TO STA. 1079+00

C.P. 05-20
Sheet No. X18 of 94 Sheets

DATE: 3/2/2006 TIME: 3:31:40 PM
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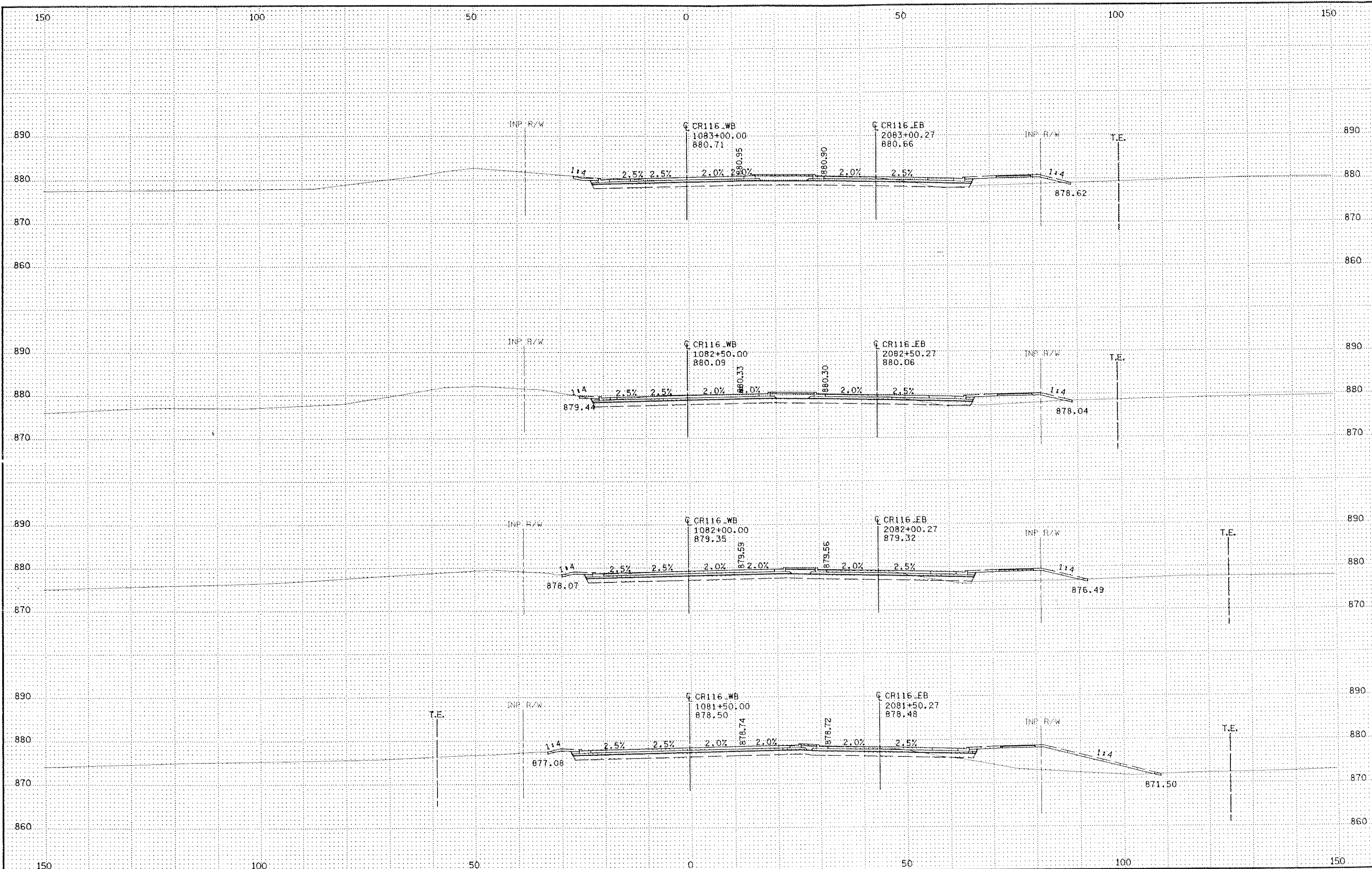
CERTIFIED BY: *[Signature]*
 LICENSED PROFESSIONAL ENGINEER
 LIC. NO. 22405 DATE 3-1-06

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 TOLTZ, KING, DUVAL, ANDERSON
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CROSS SECTIONS
 STA. 1079+50 TO STA. 1081+00

C.P. 05-20
 Sheet No. X19 of 94 Sheets

DATE: 3/2/2006 TIME: 3:31:51 PM
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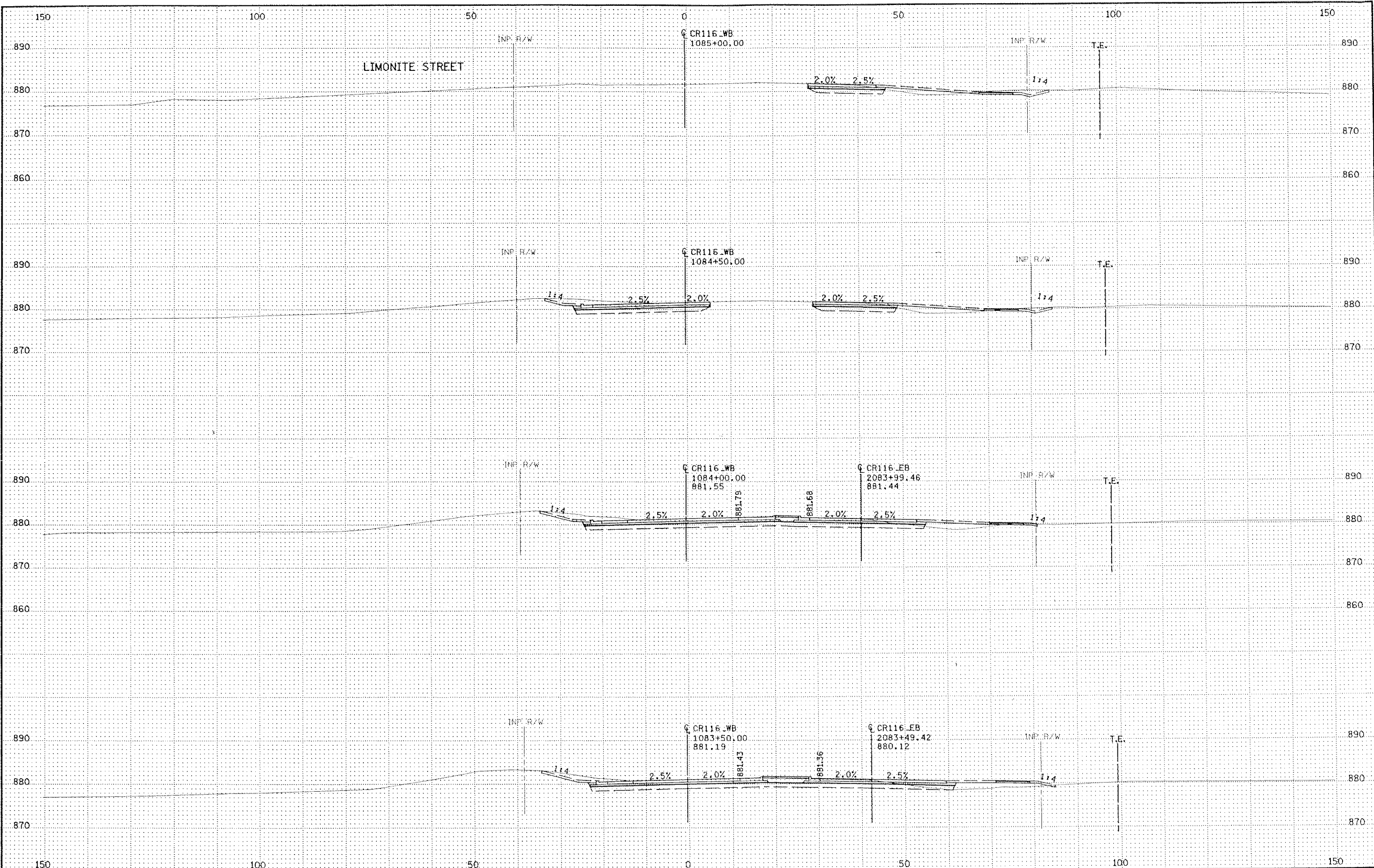
CERTIFIED BY *Joseph Weaver* LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

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CROSS SECTIONS
STA. 1081+50 TO STA. 1083+00

C.P. 05-20
Sheet No. X20 of 94 Sheets

DATE: 3/2/2006 TIME: 3:32:03 PM
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DRAWN BY: TJV

CHECKED BY: JMW

CERTIFIED BY

James Weaver
LICENSED PROFESSIONAL ENGINEER

LIC. NO. 22405 DATE 3-1-06

TKDA

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AND ASSOCIATES, INCORPORATED

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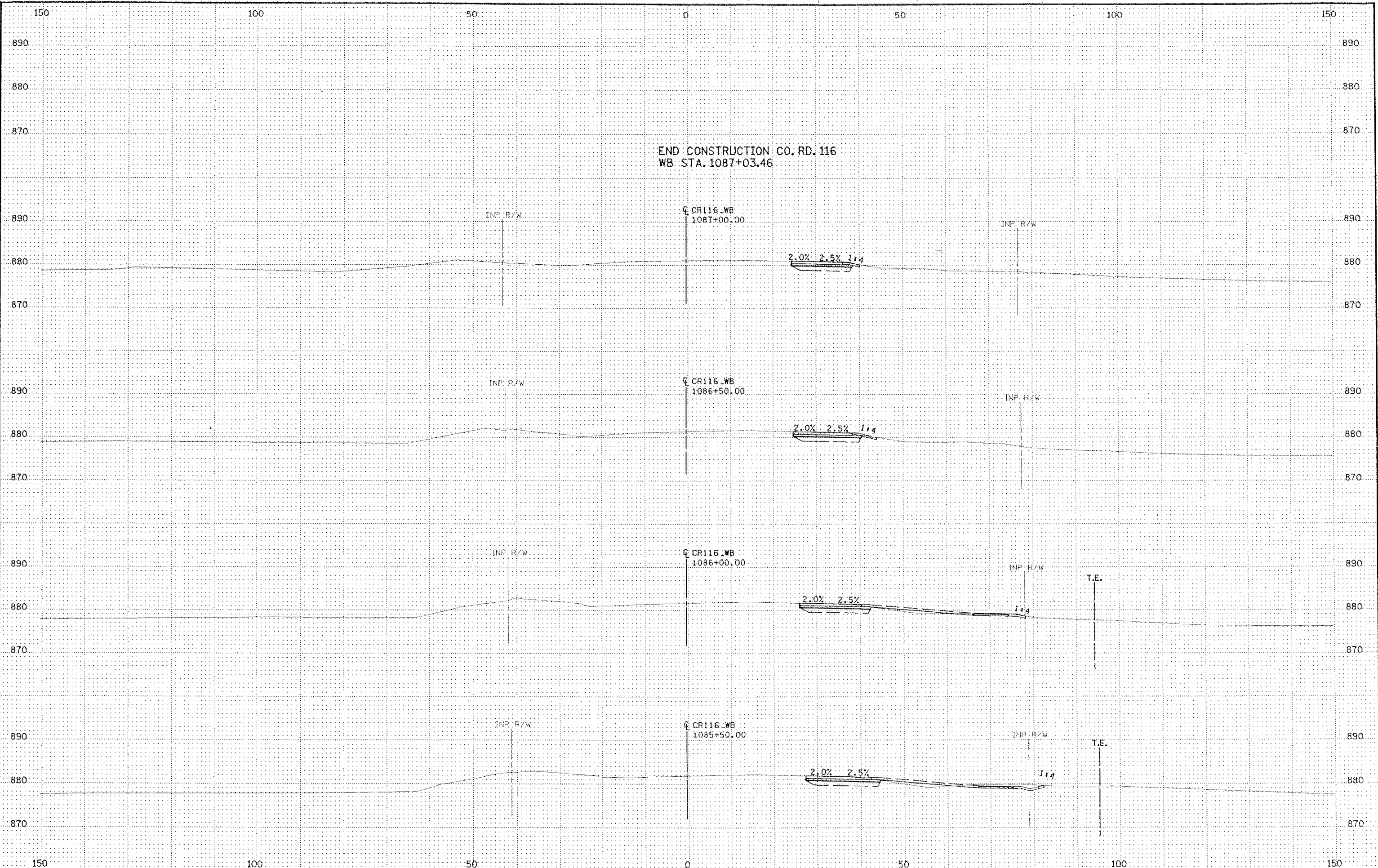
CROSS SECTIONS

STA. 1083+50 TO STA. 1085+00

C.P. 05-20

Sheet No. X21 of 94 Sheets

DATE: 3/2/2006 TIME: 3:32:14 PM
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DRAWN BY: TJV
CHECKED BY: JMW

CERTIFIED BY *Joseph W. Jones*
LIC. NO. 22405 DATE 3-1-06
LICENSED PROFESSIONAL ENGINEER

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AND ASSOCIATES, INCORPORATED
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CROSS SECTIONS
STA. 1085+50 TO STA. 1087+50

C.P. 05-20
Sheet No. X22 of 94 Sheets