

MINNESOTA DEPARTMENT OF TRANSPORTATION

THE CITY OF MAPLEWOOD RAMSEY COUNTY

CONSTRUCTION PLAN FOR GRADING, AGGREGATE BASE, BITUMINOUS PAVEMENT, CONCRETE CURB AND GUTTER, CONCRETE WALK, BITUMINOUS PEDESTRIAN TRAIL, STORM SEWER, UTILITY IMPROVEMENTS, AND LANDSCAPING.

LOCATED ON: COUNTY ROAD D BETWEEN TH 61 AND SOUTHLAWN DRIVE (Geographic Description)
LOCATED ON: HAZELWOOD STREET BETWEEN COUNTY ROAD D AND 585' SOUTH (Geographic Description)

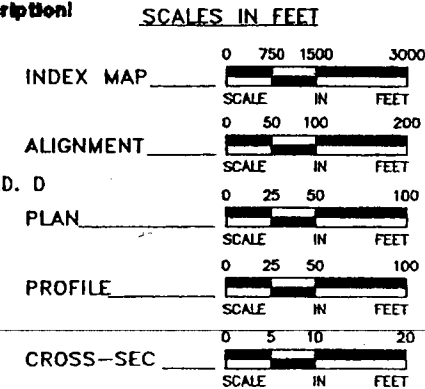
COUNTY ROAD D IMPROVEMENTS CITY IMPROVEMENT PROJECT NO. 02-07

COUNTY ROAD D - TH 61 TO 415' WEST OF SOUTHLAWN

HAZELWOOD STREET - CTY. RD. D TO 617.84' SOUTH OF CTY. RD. D

STATE AID PROJ. NO. 138-121-03
GROSS-LENGTH 5218 FEET 0.988 MILES
BRIDGE-LENGTH 0 FEET 0 MILES
EXCEPTIONS-LENGTH 0 FEET 0 MILES
NET-LENGTH 5218 FEET 0.988 MILES

STATE AID PROJ. NO. 138-112-05
GROSS-LENGTH 585 FEET 0.111 MILES
BRIDGE-LENGTH 0 FEET 0 MILES
EXCEPTIONS-LENGTH 0 FEET 0 MILES
NET-LENGTH 585 FEET 0.111 MILES



MINN. PROJ. NO. _____
MINN. PROJ. NO. _____

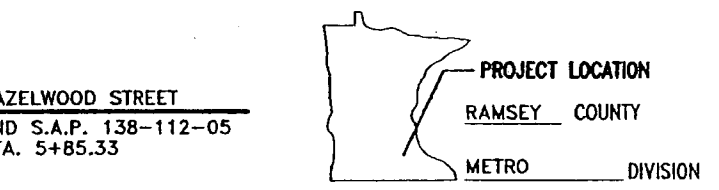
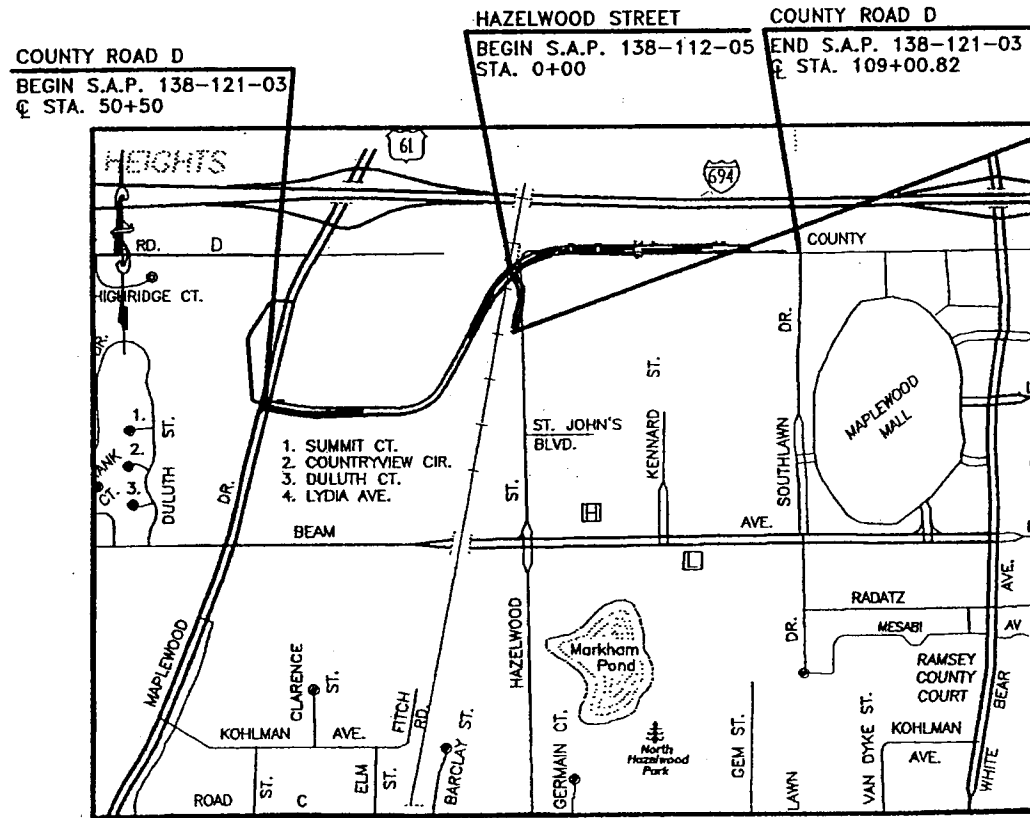
GOVERNING SPECIFICATIONS AS AMENDED
THE 2000 EDITION OF THE MINNESOTA DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR CONSTRUCTION" SHALL GOVERN. ALL TRAFFIC CONTROL SIGNING AND DEVICES SHALL CONFORM TO THE MMUTCD, INCLUDING THE FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS.

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LEGEND

- EXISTING GATE VALVE
- EXISTING HYDRANT
- EXISTING CURB BOX
- EXISTING SANITARY SEWER MANHOLE
- EXISTING STORM SEWER MANHOLE
- EXISTING CATCH BASIN
- EXISTING POWER POLE
- EXISTING SANITARY SEWER
- EXISTING STORM SEWER
- EXISTING WATERMAIN
- EXISTING CURB AND GUTTER
- EXISTING UNDERGROUND BP PIPELINE
- CAS EXISTING UNDERGROUND GAS MAIN
- TEL EXISTING UNDERGROUND TELEPHONE LINE
- P-UG EXISTING UNDERGROUND POWER
- P-OH EXISTING OVERHEAD POWER
- EXISTING FENCE
- EXISTING TREE
- EXISTING TREE LINE
- EXISTING STREET SIGN
- EXISTING CONTOUR
- PROPOSED CONTOUR
- 23-30-26-11-0070 PIN NUMBER
- PROPOSED REDUCER
- PROPOSED TEE
- PROPOSED GATE VALVE
- PROPOSED GATE VALVE IN MH
- PROPOSED HYDRANT
- PROPOSED MANHOLE FOR STORM AND SANITARY SEWER
- PROPOSED CATCH BASIN
- PROPOSED WATERMAIN
- PROPOSED SANITARY SEWER
- PROPOSED STORM SEWER
- PROPOSED CURB AND GUTTER



DESIGN DESIGNATION: COUNTY ROAD D (S.A.P. 138-121-03)
STA. 50+50 TO 54+32 (URBAN SECTION)
STA. 63+32 TO 109+00.82 (URBAN SECTION)

Functional Classification: COLLECTOR
No. of Traffic Lanes = 4
ADT (Current Year) 2004 = 7,000
ADT (Future Year) 2024 = 23,200
DHY (Design Hr. Vol.) = N.A.
D (Directional Distr.) = 50%
T (Heavy Commercial) = 7.1%

No. of Parking Lanes = 0
Design Speed = 35 mph
Based on STOPPING Sight Distance
Height of eye = 3.5' Height of Object = 5'
Design Speed not achieved at: N/A
STA. TO STA. mph N/A
STA. TO STA. mph N/A
STA. TO STA. mph N/A

R-Value = 50 20 YR ESALS 2,900,000 Design Load 10 ton

DESIGN DESIGNATION: COUNTY ROAD D (S.A.P. 138-121-03)
STA. 54+32 TO 63+32 (RURAL SECTION)
URBAN

Functional Classification: COLLECTOR
No. of Traffic Lanes = 4
ADT (Current Year) 2004 = 7,000
ADT (Future Year) 2024 = 23,200
DHY (Design Hr. Vol.) = N.A.
D (Directional Distr.) = 50%
T (Heavy Commercial) = 7.1%

No. of Parking Lanes = 0
Design Speed = 35 mph
Based on STOPPING Sight Distance
Height of eye = 3.5' Height of Object = 5'
Design Speed not achieved at: X
STA. TO STA. mph N/A
STA. TO STA. mph N/A
STA. TO STA. mph N/A

R-Value = 50 20 YR ESALS 2,900,000 Design Load 10 ton

DESIGN DESIGNATION: HAZELWOOD STREET (S.A.P. 138-112-05)
STA. 0+00 TO 5+85.33

Functional Classification: COLLECTOR
No. of Traffic Lanes = 2
ADT (Current Year) 2004 = 6,800
ADT (Future Year) 2024 = 10,100
DHY (Design Hr. Vol.) = N.A.
D (Directional Distr.) = 50%
T (Heavy Commercial) = 7.1%

No. of Parking Lanes = 0
Design Speed = 40 mph
Based on STOPPING Sight Distance
Height of eye = 3.5' Height of Object = 5'
Design Speed not achieved at: X
STA. 0+55.47 TO STA. 3+83.80 mph 30
STA. 4+72.22 TO STA. 5+85.33 mph 30
STA. TO STA. mph N/A

R-Value = 50 20 YR ESALS 1,600,000 Design Load 10 ton

AS-BUILT PLAN INFORMATION IS FURNISHED WITHOUT WARRANTY AS TO ACCURACY OR FITNESS FOR ANY PURPOSE. USERS SHOULD FIELD VERIFY LOCATIONS AND ELEVATIONS.

THIS PLAN SET CONTAINS 104 SHEETS

URS
104
102
99 SHEETS

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.

Nick C. Landwehr
NICK C. LANDWEHR
DATE: 4/15/04 MN LIC. NO. 40953

APPROVED: *R. Roberts* 5-26-04
CITY OF MAPLEWOOD ENGINEER

APPROVED: *D. E. Laska* 4/1/04
DISTRICT STATE AID ENGINEER REVIEW FOR COMPLIANCE WITH STATE-AID RULES/POLICY

APPROVED: *D. E. Laska* 4/1/04
APPROVED FOR STATE AID FUNDING: STATE AID ENGINEER

AS-BUILT

I HEREBY CERTIFY THAT THE FINAL FIELD REVISIONS, IF ANY, OF THIS PLAN WERE MADE 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 _____ REG. NO. _____

DATE	SHEET NO.	APPROVED BY
4/21/05	VARIOUS	KARL P. KEEL
6/30/05	2, 3, 4, 8, 12, 43, 64	
7/6/05	2, 3, 4, 10, 24, 27, 37, 38, 43, 54	SAW

PLOT DATE: May 10, 2004 11:23am DISK FILE NAME: (15.08) R:\49392007\PLAN-SHT\007-pin-sh\007-111.dwg

PROJECT QUANTITIES

STATEMENT OF ESTIMATED QUANTITIES

S.A.P. 138-121-03

S.A.P. 138-112-05

CITY OF MAPLEWOOD - COUNTY ROAD D & HAZELWOOD STREET RE-ALIGNMENT

NOTE	MNDOT ITEM NO.	CONTRACT ITEM	UNIT	TOTAL PROJECT QUANTITIES		CO. RD. D ROADWAY	CO. RD. D STORM SEWER	CO. RD. D NON-PARTICIPATING ROADWAY	HAZELWOOD ST. ROADWAY	HAZELWOOD ST. STORM SEWER	HAZELWOOD ST. NON-PARTICIPATING SANITARY & WATER	COUNTY ROAD D LANDSCAPE BID ALTERNATIVE
				ESTIMATED QTY	ESTIMATED QTY	SAP 138-121-03 PARTICIPATING ITEMS	SAP 138-121-03 PARTICIPATING ITEMS		SAP 138-112-05 PARTICIPATING ITEMS	SAP 138-112-05 PARTICIPATING ITEMS		
	2021.501	MOBILIZATION	LS	1.00	0.72		0.14	0.01	0.04	0.01	0.02	0.04
	2031.501	FIELD OFFICE TYPE D	EACH	1.00	0.72		0.14	0.01	0.04	0.01	0.02	0.04
	2101.501	CLEARING	ACRE	2.75	2		0.75					
	2101.502	CLEARING	TREE	48.0	36		12					
	2101.506	GRUBBING	ACRE	2.75	2		0.75					
	2101.507	GRUBBING	TREE	48.0	36		12					
	2103.501	BUILDING REMOVAL	LS	1.0				1				
	2104.501	REMOVE SEWER PIPE (STORM)	LF	483.0	308		175					
	2104.501	ABANDON PIPE SEWER	LF	437.0							437	
	2104.501	ABANDON PIPE WATER	LF	437.0							437	
	2104.501	ABANDON PIPE STORM	LF	735.0							735	
	2104.501	REMOVE SEWER PIPE (SANITARY)	LF	16.0					16			
	2104.501	REMOVE CURB & GUTTER	LF	4871.0	4871							
	2104.501	REMOVE FENCE	LF	110.0	110							
	2104.501	REMOVE RAILROAD TRACK	LF	620.0	620							
	2104.505	REMOVE BITUMINOUS PAVEMENT	SY	15959.0	14454				1505			
	2104.505	REMOVE BITUMINOUS DRIVEWAY PAVEMENT	SY	654.0	654							
12	2104.505	REMOVE CONCRETE DRIVEWAY PAVEMENT	SY	177.0	177							
10	2104.507	REMOVE MISCELLANEOUS STRUCTURES	CY	130.0	130							
	2104.509	REMOVE POST	EACH	5.0	5							
	2104.509	REMOVE CATCH BASIN	EACH	16.0	12				4			
	2104.509	REMOVE MANHOLE	EACH	6.0	3				3			
	2104.509	REMOVE APRON	EACH	7.0	7							
	2104.509	REMOVE GATE VALVE	EACH	1.0	1							
	2104.509	REMOVE RAILROAD TIES	EACH	310.0	310							
	2104.513	SAWING BIT PAVEMENT (FULL DEPTH)	LF	616.0	586				30			
	2104.523	SALVAGE SIGN TYPE C	EACH	19.0	17				2			
	2104.601	BULKHEAD STORM SEWER	EACH	2.0			2					
	2105.501	COMMON EXCAVATION (EV) (P)	CY	49286.0	47220				2066			
9	2105.501	COMMON EXCAVATION (EV)	CY	18878.0	18878							
	2105.505	MUCK EXCAVATION (EV)	CY	30728.0	30728							
	2105.505	POND EXCAVATION (EV)	CY	3000.0			3000					
	2105.507	SUBGRADE EXCAVATION (EV) (P)	CY	12035.0	10972				1063			
	2105.522	SELECT GRANULAR BORROW (CV) (P)	CY	2877.0	1957				920			
	2105.522	SELECT GRANULAR BORROW MOD 5% (CV)	CY	24130.0	24130							
	2105.525	TOPSOIL BORROW (CV)	CY	5118.0	5118							
	2123.610	STREET SWEEPER (WITH PICKUP BROOM)	HOURL	50.0	40				10			
	2130.501	WATER	MGAL	480.0	300				100			80
	2211.501	AGGREGATE BASE, CLASS 6	TON	1000.0	1000							
	2211.503	AGGREGATE BASE (CV), CLASS 6 (P)	CY	10656.0	10058				598			
	2331.604	2" BITUMINOUS DRIVEWAY	SY	559.0	559							
	2350.501	TYPE MV 3 WEARING COURSE MIXTURE (C)	TON	4346.0	4108				238			
	2350.502	TYPE MV 3 NON WEARING COURSE MIXTURE (C)	TON	4346.0	4108				238			
	2350.502	TYPE LV 3 NON WEARING COURSE MIXTURE (B)	TON	4346.0	4108				238			
	2357.502	BITUMINOUS MATERIAL FOR TACK COAT	GAL	3779.0	3572				207			
	2405.507	GRANULAR BEDDING	CY	100.0							100	
	2501.515	15" RC PIPE APRON	EACH	1.0			1					

28-260

LOT DATE: JUL 05 2005 4:13pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\007-ESTI.dwg

XREF DRAWINGS 2x34bdr	DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	DRAWN BY: MRH	1	BAC	05/27/04	REVISED SEQ
	DESIGN BY: NCL	2	JCD	4/21/05	REVISED PER CHANGE ORDER #13
	CHKD. BY: NCL	3	JCD	8/30/05	REVISED EARTHWORK QUANTITIES
	DWG. NAME: ESTI	4	JCD	7/6/05	REVISED STORM SEWER QUANTITIES
	DATE: FEBRUARY 27, 2004	5	JCD	1/10/07	AS-BUILT



Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

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.
Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 18681

CITY OF MAPLEWOOD
COUNTY ROAD D
STATEMENT OF ESTIMATED QUANTITIES

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
2
99

LOT DATE: Jul 06, 2005 4:20pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-EST2.dwg

PROJECT QUANTITIES												
STATEMENT OF ESTIMATED QUANTITIES												
S.A.P. 138-121-03												
S.A.P. 138-112-05												
CITY OF MAPLEWOOD - COUNTY ROAD D & HAZELWOOD STREET RE-ALIGNMENT												
NOTE	MNDOT ITEM NO.	CONTRACT ITEM	UNIT	TOTAL PROJECT QUANTITIES		CO. RD. D ROADWAY SAP 138-121-03 PARTICIPATING ITEMS	CO. RD. D STORM SEWER SAP 138-121-03 PARTICIPATING ITEMS	CO. RD. D NON-PARTICIPATING ROADWAY	HAZELWOOD ST. ROADWAY SAP 138-112-05 PARTICIPATING ITEMS	HAZELWOOD ST. STORM SEWER SAP 138-112-05 PARTICIPATING ITEMS	HAZELWOOD ST. NON-PARTICIPATING SANITARY & WATER	COUNTY ROAD D LANDSCAPE BID ALTERNATIVE
				ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY	ESTIMATED QTY
	2501.515	24" RC PIPE APRON	EACH	3.0			3					
	2501.515	36" RC PIPE APRON	EACH	1.0			1					
	2501.515	48" RC PIPE APRON	EACH	1.0			1					
	2501.561	18" RC PIPE CULVERT DES 3006 CL III	LF	16.0			16					
	2501.567	18" RC SAFETY APRON & GRATE	EACH	2.0			2					
	2501.567	36" RC SAFETY APRON & GRATE	EACH	1.0			1					
	2501.602	TRASH GUARD FOR 24" PIPE APRON	EACH	1.0			1					
	2502.541	4" PERF PVC PIPE DRAIN	LF	200.0			200					
	2502.601	IRRIGATION SYSTEM PROVISION	LS	1.0				1				
	2503.541	15" RC PIPE SEWER DESIGN 3006 CL V	LF	1390.0			1269			121		
	2503.541	18" RC PIPE SEWER DESIGN 3006 CL V	LF	576.0			570					
	2503.541	21" RC PIPE SEWER DESIGN 3006 CL II	LF	88.0			16			72		
	2503.541	24" RC PIPE SEWER DESIGN 3006 CL II	LF	271.0			111			160		
	2503.541	27" RC PIPE SEWER DESIGN 3006 CL III	LF	349.0			41			308		
	2503.541	30" RC PIPE SEWER DESIGN 3006 CL II	LF	69.0			69					
	2503.541	33" RC PIPE SEWER DESIGN 3006 CL II	LF	249.0			249					
	2503.541	36" RC PIPE SEWER DESIGN 3006 CL II	LF	94.0			94					
	2503.541	48" RC PIPE SEWER DESIGN 3006 CL II	LF	48.0			48					
	2503.602	CONNECT TO EXISTING STORM SEWER	EACH	12.0			11			1		
	2503.602	CONNECT TO EXISTING MANHOLE (SAN)	EACH	2.0							2	
	2503.603	8" PVC PIPE SEWER	LF	465.0							465	
	2504.602	ADJUST VALVE BOX	EACH	18.0		17						1
	2504.602	ADJUST GATE VALVE	EACH	17.0		17						
	2504.603	WATERMAIN TRENCH EXCAVATION	LF	700.0							700	
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 1 (2'x3' BOX	LF	72.46			60.00			12.46		
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 2 (48")	LF	98.64			82.47			16.17		
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 3 (54")	LF	5.16			5.16					
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 4 (66")	LF	15.64			5.19			10.45		
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 5 (78")	LF	11.92			11.92					
14	2506.501	CONST DRAINAGE STRUCTURE DESIGN SPEC 6 (102")	LF	7.27			7.27					
	2506.516	CASTING ASSEMBLY	EACH	45.0			37			8		
	2506.522	ADJUST FRAME & RING CASTING	EACH	23.0		22			1			
11	2506.603	15" PIPE SEWER	LF	107.0			107					
11	2506.603	18" PIPE SEWER	LF	389.0			389					
11	2506.603	24" PIPE SEWER	LF	843.0			843					
	2506.603	CONSTRUCT SANITARY MANHOLES	LF	40.0							40	
	2511.501	RANDOM RIPRAP CLASS III	CY	97.5			97.5					
	2511.515	GEOTEXTILE FILTER TYPE III	SY	140.0			140					
	2511.515	GEOTEXTILE FILTER TYPE V	SY	1025.0			1025					
13	2521.501	4" CONCRETE WALK	SF	41589.0		34181			7408			
	2521.511	2" BITUMINOUS WALK	SF	23630.0		23630						
	2531.501	CONCRETE CURB & GUTTER DESIGN B624	LF	13351.0		12238			1113			
	2531.501	CONCRETE CURB & GUTTER DESIGN B624 (MOD)	LF	9151.0		9026			125			
	2531.507	8" CONCRETE DRIVEWAY PAVEMENT	SY	72.0		72						
	2531.602	PEDESTRIAN CURB RAMP (TYPE A)	EACH	7.0		7						
	2554.505	PERMANENT BARRICADES	LF	40.00		40						
	2563.601	TRAFFIC CONTROL	LS	1.00		0.72	0.14	0.01	0.04	0.01	0.02	0.04
	2564.602	PAVEMENT MESSAGE (RT ARROW) POLY PREFORM	EACH	5.0		4				1		
	2564.602	PAVEMENT MESSAGE (LT ARROW) POLY PREFORM	EACH	11.0		10				1		

28-260

XREF DRAWINGS		DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
2x34b-dr			1	BAC	05/27/04	REVISED SEQ
DRAWN BY: MRH		DESIGN BY: NCL	2	JCD	4/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: EST2	3	JCD	6/30/05	REVISED EARTHWORK QUANTITIES
DATE: FEBRUARY 27, 2004			4	JCD	7/6/05	REVISED STORM SEWER QUANTITIES
			5	JCD	11/9/07	AS-BUILT



Threeher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.0376 Fax

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.

Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
STATEMENT OF ESTIMATED QUANTITIES

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
3
99

PLOT DATE: May 10, 2004 11:47am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh\007-TAB-02.dwg

SIGN SALVAGE	
STATION/LOCATION	QUANTITY EACH
COUNTY ROAD D	
50+72 LT	2
82+62 LT	1
82+90 LT	1
83+22 LT	1
83+51 LT	1
83+85 LT	1
84+79 LT	1
84+73 RT	1
92+16 LT	1
96+00 LT	1
96+68 RT	1
98+19 LT	1
101+62 LT	1
102+15 LT	1
102+48 LT	1
103+67 LT	1
Co.Rd.D Totals	17
HAZELWOOD STREET	
1+60 LT	1
2+39 RT	1
Hazelwood Street Totals	2
TOTALS	19

CLEAR AND GRUB CHART		
STATION/LOCATION	CLEAR & GRUBB ACRE	TREE REMOVAL TREE
COUNTY ROAD D		
50+00 to 104+60		
51+25 LT		1
51+20 RT		1
53+00	0.2	
64+32 to 64+82 RT		3
66+32 to 70+32	0.88	
70+57 to 71+32 LT		4
73+47 RT		1
73+82 to 75+32 RT		17
75+00	0.26	
78+77 RT		3
79+72 RT		1
80+32 LT		1
82+57 to 85+32	0.8	
84+00 to 86+00 LT	0.5	12
87+50 LT		1
87+82 LT		1
88+75 LT		1
89+00 RT	0.11	
89+97 LT		1
TOTALS	2.75	48

PIPE REMOVALS										
STATION / LOCATION	REMOVE RCP PIPE 15" LF	REMOVE RCP PIPE 18" LF	REMOVE RCP PIPE 21" LF	REMOVE RCP PIPE 24" LF	REMOVE RCP PIPE 27" LF	REMOVE RCP PIPE 30" LF	REMOVE RCP PIPE 48" LF	REMOVE FES EA	REMOVE 12" SAN PIPE LF	
	COUNTY ROAD D									
82+32 to 85+32 LT										
82+32 to 85+72 LT										
82+45 LT								1		
83+27 LT										
83+32 LT								1		
83+32 to 86+57 LT							175			
83+40 LT								1		
83+42 LT								1		
86+68 LT	35									
86+68 RT						18		1		
90+03 LT		36								
90+03 RT		40						1		
93+42 LT		16								
93+42 RT		35								
97+52 LT			22							
97+52 RT	47							1		
101+42 LT				20						
101+42 RT	39									
TOTALS FOR CO.RD. D =	121	127	22	20	0	18	175	7	0	
HAZELWOOD AVENUE										
0+20 RT					8					
0+51 RT									8	
2+26 RT										
2+26 RT										
5+30 RT									8	
5+03 RT			10							
5+03	50									
TOTALS FOR HAZELWOOD AVENUE =	50	0	10	0	8	0	0	0	16	
TOTAL FOR PROJECT	171	127	32	20	8	18	175	7	16	

SAWCUT	
STATION/LOCATION	BITUMINOUS LF
COUNTY ROAD D	
50+00 to 104+60	
50+50	80
51+20 to 52+50 RT	130
88+30 LT	60
91+00 LT	62
94+75 LT	42
95+00 RT	52
96+32 LT	31
97+00 RT	21
101+92 LT	30
102+82 LT	26
104+92	52
TOTAL COUNTY ROAD D	586
HAZELWOOD AVENUE	
6+18	30
HAZELWOOD STREET	30
TOTALS	616

BITUMINOUS PAVEMENT REMOVAL			
STATION		REMOVE BITUMINOUS PAVEMENT	REMOVE BITUMINOUS DRIVEWAY
		SY	SY
COUNTY ROAD D			
50+50 to 52+30		1247	
82+32 to 84+82		2000	
84+82 to 93+32		4528	
8850	LT		42
91+00	LT		93
93+32 to 104+92		6680	
94+75	LT		238
96+32	LT		89
101+92	LT		85
102+82	LT		108
TOTALS FOR CO.RD. D =		14454	654
HAZELWOOD STREET			
0+50 to 5+75		1505	
TOTALS FOR HAZELWOOD AVENUE =		1505	0
TOTALS FOR PROJECT =		15959	654

CONCRETE PAVEMENT REMOVAL				
STATION		REMOVE CONCRETE DRIVEWAY	REMOVE CONCRETE CURB	REMOVE CONCRETE APRON
		Sq. Ft.	L.F.	Sq. Ft.
COUNTY ROAD D				
82+20 to 95+00 LT			1350	
82+20 to 95+00 RT			1316	
83+00 LT				
88+20 RT				380
88+50 LT	821			
91+00 LT	391			
95+00 to 104+80 LT		1182		
95+00 to 104+80 RT		1023		
TOTALS FOR CO.RD. D =	1212	4871	380	

28-260

XREF DRAWINGS 2x34bdr	DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	DRAWN BY: MRH-PMJ				
	DESIGN BY: NCL				
	CHKD. BY: NCL				
	DWG. NAME: TAB-02				
	DATE: FEBRUARY 27, 2004				



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Michael J. Landwer
MICHAEL J. LANDWER
DATE: 4/15/2004 MN LIC. NO. 40953

CITY OF MAPLEWOOD
COUNTY ROAD D

TABULATIONS
COUNTY ROAD D, HAZELWOOD STREET

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		6
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: May 10, 2004 11:47am DISK FILE NAME: (15.06) R:\4392007\PLAN-SHT\007-pln-sh\007-TAB-03.dwg

EXISTING UTILITY / DRAINAGE MODIFICATIONS									
STATION/OFFSET		REMOVE	REMOVE	RELOCATE	ADJUST	ADJUST	ABANDON	ABANDON	ABANDON
		CATCH BASIN	STORM MANHOLE	HYDRANT	GATE VALVE	MANHOLE	WATER MAIN	SANITARY SEWER	STORM SEWER
		EACH	EACH	EACH	EACH	EACH	LF	LF	LF
COUNTY ROAD D 50+00 to 101+00									
50+00	LT				2				
80+32	LT								
82+94	LT		1						
83+04	LT					1			
83+20	LT				1				
83+36	LT		1						
83+50	LT	2	1						
85+57	LT					1			
86+68	LT	1				1			
86+68	RT	1							
87+00	LT					1			
87+32	LT								
88+32	RT			1					
89+57	LT								
89+92	RT								
90+07	LT	1				1			
90+07	RT	1							
90+42	RT					2			
90+62	RT				3				
92+62						1			
93+42	LT	1							
93+42	RT	1							
94+42	RT			1	1				
95+00	RT					1			
95+12	RT				1	1			
95+32	LT					1			
95+42	LT					1			
95+72	RT				1				
95+87	LT					1			
95+90	LT					1			
97+32	LT								
97+52	LT	1				2			
97+52	RT	1							
91+97	LT								
99+02	RT				3				
99+12	RT					1			
99+72	LT								
100+12	RT			1	1				
100+32	LT								
101+07						1			
101+42	LT	1				1			
101+42	RT	1							
102+12									
102+57	RT								
103+52						1			
103+57	RT				3				
104+37	LT								
104+57	RT				1				
TOTALS FOR CO.RD. D=		12	3	3	17	22	0	0	0

EXISTING UTILITY / DRAINAGE MODIFICATIONS									
STATION/OFFSET		REMOVE	REMOVE	RELOCATE	ADJUST	ADJUST	ABANDON	ABANDON	ABANDON
		CATCH BASIN	STORM MANHOLE	HYDRANT	GATE VALVE	MANHOLE	WATER MAIN	SANITARY SEWER	STORM SEWER
		EACH	EACH	EACH	EACH	EACH	LF	LF	LF
HAZELWOOD AVENUE 0+00 to 5+53									
0+00 to 5+53	RT						575	437	735
1+20	RT								
1+25	RT								
2+26	RT	2	1						
2+80	RT		1						
4+61	LT			1					
5+03	RT	2	1						
5+30	RT							1	
HAZELWOOD AVENUE =		4	3	1	0	1	575	437	735
TOTALS FOR PROJECT =		16	6	4	17	23	575	437	735

MISC. REMOVALS AND ADJUSTMENTS						
STATION/OFFSET		REMOVE	REMOVE	REMOVE	REMOVE	REMOVE
		POST	FENCE	RUBBLE	RAILROAD TRACKS	RAILROAD TIES
		EACH	LF	CY	LF	EA
COUNTY ROAD D 50+50 to 101+00						
51+00 to 51+25			5			
51+50 to 52+50				110		
52+50 to 53+50					130	
53+00 to 64+30						
54+00 TO 63+00						
79+32	LT					
80+07	LT					
82+32 to 83+32	LT					
77+00					620	310
TOTALS FOR CO.RD D =		5	110	130	620	310
HAZELWOOD AVENUE 0+00 to 5+54						
1+40 RT	RT					
TOTALS FOR HAZELWOOD =		0	0	0		
TOTALS FOR PROJECT =		5	110	130	620	310

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
2x34bdr		43932-007	1	1/9/07 JCD	AS-BUILT	
DRAWN BY:	DESIGN BY:	MRH-PMJ	NCL			
CHKD. BY:	DWG. NAME:	NCL	TAB-03			
DATE:		FEBRUARY 27, 2004				



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Walter J. Landwer
WALTER J. LANDWER
DATE: 4/15/2004 MN LIC. NO. 40953

CITY OF MAPLEWOOD
COUNTY ROAD D
TABULATIONS
COUNTY ROAD D, HAZELWOOD STREET

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		7
S.A.P.	138-121-03	
S.A.P.	138-112-05	

CONCRETE QUANTITIES SUMMARY

LOCATION	CURB AND GUTTER B624	CURB AND GUTTER B624 MODIFIED	DRIVEWAY APRON	CONCRETE WALK	PED RAMP TYPE A	CONCRETE MEDIAN
	LF	LF	SF	SF	EACH	SF
CO. RD. D						
53+00 to 63+00	2002	2005				3892
63+00 to 81+50	3727	3517				7198
64+00					1	
64+80					1	
81+50 to 105+19	4199					
81+50					1	
82+10 to 94+51	1265			7880		
82+15					1	
82+42 to 88+00		1117				2336
88+23			262			
88+47 to 90+60		430				716
90+83			263			
91+06 to 94+32		656				1169
94+30 to 95+00					2	
94+57			127			
95+01 to 105+19	1045					
95+18 to 101+68		1301				2119
95+30 to 108+75				8870		
108+75					1	
CO. RD. D TOTAL	12238	9026	652	16751	7	17430
HAZELWOOD STREET						
0+00 to 6+20 LT	519			4257		
0+00 to 6+20 RT	594			3009		
0+56 to 1+18		125				142
HAZELWOOD TOTAL	1113	125	0	7266	0	142
TOTALS	13351	9151	652	24017	7	17572

BITUMINOUS

STATION	BASE COURSE	BINDER COURSE	WEAR COURSE	BITUMINOUS TRAIL	BITUMINOUS DRIVE	TACK COAT
	TONS	TONS	TONS	SF	SF	GALLON
STATION	BASE	BINDER	WEAR		DRIVE	TACK COAT
COUNTY ROAD D						
50+00 to 53+00						
53+00 to 63+00	773	773	773			672
63+00 to 81+40	1361	1361	1361			1183
63+00 to 81+50				23630		
81+43 to 82+40	118	118	118			103
82+40 to 105+00	1856	1856	1856			1614
88+23					551	
90+83					560	
94+57					1867	
96+31					608	
101+91					563	
102+78					882	
Co. RD. D Totals	4108	4108	4108	23630	5031	3572
HAZELWOOD STREET						
0+49 to 5+54	238	238	238			207
HAZELWOOD Totals	238	238	238	0	0	207
TOTALS SF	4345	4345	4345	23630	5031	3779

AGGREGATE & GRANULAR BORROW

LOCATION	AGGREGATE BASE VOLUME	SELECT GRANULAR BORROW VOLUME
	CY	CY
COUNTY ROAD D		
50+00 to 54+00	745	1507
54+00 to 63+00	1599	
63+00 to 81+42	3127	6254
81+42 to 82+42	233	471
82+42 to 105+00	4209	8536
88+23 LT	22	
90+83 LT	21	
94+57 LT	48	
96+31 LT	16	
101+91 LT	15	
102+78 LT	23	
TOTAL CO. RD. D	10058	16768
HAZELWOOD STREET		
0+49 to 6+11	598	920
TOTAL HAZELWOOD STREET	598	920
TOTALS	10656	17687

28-260

LOT DATE: Jun 30, 2005 2:05pm DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\007-pln-ent\007-TAB-04.dwg

XREF DRAWINGS 22x34bdr	DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	DRAWN BY: MRH-PMJ	1	JCD	4/21/05	REVISED PER CHANGE ORDER #13
	DESIGN BY: NCL	2	JCD	8/30/05	REVISED EARTHWORK QUANTITIES
	CHKD. BY: NCL	3	JCD	1/9/07	AS-BUILT
	DWG. NAME: TAB-04				
	DATE: FEBRUARY 27, 2004				



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K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
TABULATIONS
COUNTY ROAD D, HAZELWOOD STREET

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO.
8
99

SIGN TABULATION

SIGN NO.	POST			MINIMUM MOUNTING HEIGHT [1] FT.	SIGN			S.A.P. 138-121-03 COUNTY ROAD D		S.A.P. 138-112-05 HAZELWOOD STREET		TOTAL SQ. FT.	SIGN LEGEND	NOTES
	NO. AND TYPE	KNEE BRACE EACH	LENGTH [1] LN. FT.		PANEL CODE	SIZE INCHES	EACH SQ. FT.	QTY.	SQ. FT.	QTY.	SQ. FT.			
C-1	2U	1	13.0	7	R3-30AB	36 X 30	7.50	1	7.50			7.50	LT. TURN ONLY/LT. TURN ONLY	
C-2	2U	1	15.0	7	R3-30CA	36 X 30	7.50	1	7.50			7.50	THRU ONLY/RT. TURN ONLY	
C-3	2U	1	13.5	7	R8-3A	24 X 24	4.00					4.00	NO PARKING	
C-4	2U		13.0	7	W3-3	36 X 36	9.00	1	9.00			9.00	TRAFFIC SIGNAL AHEAD	
C-5	2U		12.5	7	R3-7	30 X 30	6.25	1	6.25			6.25	LEFT LANE MUST TURN LEFT	
C-6	2U		12.5	7	R4-7	24 X 30	5.00	11	55.00			55.00	KEEP RIGHT	
C-7	2U		15.0	5	X4-2	18 X 18	2.25					24.75	HAZARD MARKER	
C-8	2U		13.0	7	R8-3A	24 X 24	4.00	15	60.00			60.00	NO PARKING	
C-9	2U	1	13.5	9	R2-1	24 X 30	5.00	2	10.00			10.00	SPEED LIMIT 35 M.P.H.	
C-10	2U		13.0	7	R8-3A	24 X 24	4.00					8.00	NO PARKING	
C-11	2U		13.0	7	W6-3	30 X 30	6.25	0					TWO WAY TRAFFIC	
C-12	2U		15.0	7	W6-1	36 X 36	9.00	1	9.00			9.00	DIVIDED HIGHWAY	
C-13	2U		15.0	7	R2-1	24 X 30	5.00	1	5.00			5.00	SPEED LIMIT 35 M.P.H.	
C-14	2U		13.0	7	R3-X2	30 X 30	6.25	6	37.50			37.50	LEFT TURN LANE	
C-15	2U		16.0	9	R3-X1	30 X 30	6.25	1	6.25			6.25	RIGHT TURN LANE	
C-16	2U		15.0	7	R8-3A	24 X 24	4.00	2	8.00			8.00	NO PARKING	
C-17	2U		16.0	7	R8-3A	24 X 24	4.00	2	8.00			8.00	NO PARKING	[2]
C-18	2U	1	13.0	7	R3-X1	30 X 30	6.25	1	6.25			6.25	RIGHT TURN LANE	
C-19	2U		13.0	7	SPECIAL			1					KENNARD STREET	
C-20	2U		15.5	7	SPECIAL			1					COUNTY ROAD D	
C-21	2U		15.0	7	R1-1	30 X 30	6.25					6.25	STOP SIGN	
C-22	2U		12.5	7	R8-3A	24 X 24	4.00	2	8.00			8.00	NO PARKING	
C-23	2U		15.0	7	SPECIAL								HAZELWOOD STREET	
				7	SPECIAL								COUNTY ROAD D	
				7	R1-1	30 X 30	6.25			1	6.25	6.25	STOP SIGN	
				7	R3-30AA	36 X 30	7.50			1	7.50	7.50	LT. TURN ONLY/ RT. TURN ONLY	
				7	W3-1A	30 X 30	6.25			1	6.25	6.25	STOP SIGN AHEAD	
				9.5	R2-1	24 X 30	5.00			1	5.00	5.00	SPEED LIMIT 40 M.P.H.	
				7	R12-2	24 X 30	5.00			1	5.00	5.00	AXLE WEIGHT LIMIT 5 TONS	
				9	W1-4R	30 X 30	6.25			1	6.25	6.25	CURVE RIGHT	
				7	W13-1	24 X 24	4.00				4.00	4.00	25 M.P.H.	
				7	R3-2	24 X 24	4.00	3	12.00			12.00	NO LEFT TURN	
				9	M2-1	21 X 15	2.20					2.20	JUNCTION	
				7	M1-4	24 X 24	4.00	1	4.00			4.00	US HWY 61	
PROJECT TOTALS:									310.45		40.25	350.70		

NOTES:

- [1] MOUNTING HEIGHT IS MINIMUM; SEE DETAILS ON SHEETS 49-52 OF 92 FOR TYPICAL MOUNTING.
- [2] INSTALL SALVAGED SIGN PANEL.

GENERAL NOTES:

- 1. POST LENGTHS ARE APPROXIMATE AND INCLUDE EMBEDMENT, BUT DO NOT INCLUDE ADDITIONAL LENGTH REQUIRED FOR SPLICE.
- 2. SEE STANDARD SIGNS MANUAL FOR PUNCHING CODE AND DETAILED DRAWINGS OF TYPE C SIGN PANELS.
- 3. PERMANENT SIGNAGE IS TO BE FURNISHED AND INSTALLED BY OTHERS

STRIPING TABULATION

STATION TO STATION	NOTES	2564.603	2564.603	2564.603	2564.603	2564.603	2564.603	2564.602	2564.602	2564.618
		4 INCH SOLID LINE WHITE EPOXY	4 INCH BROKEN LINE WHITE EPOXY	4 INCH SOLID LINE YELLOW EPOXY	4 INCH DOUBLE SOLID LINE YELLOW EPOXY	12 INCH SOLID LINE YELLOW EPOXY	12 INCH STOP LINE WHITE EPOXY	PAYEMENT MESSAGE (RT. ARROW) POLY PREFORM	PAYEMENT MESSAGE (LT. ARROW) POLY PREFORM	PED. CROSSWALK WHITE
		LN. FT.	LN. FT.	LN. FT.	LN. FT.	LN. FT.	LN. FT.	EACH	EACH	SQ. FT.
COUNTY ROAD D										
STATION 53+00.00 TO 63+85		2581	380	2489	0	147	0	1	2	0
STATION 63+85 TO 81+76.82		3603	690	3329	0	308	0	2	0	72
STATION 81+76.82 TO 94+75.35		3115	510	2203	0	0	0	1	5	0
STATION 94+75.35 TO 104+88.05		2268	400	1301	319	42	23	0	3	72
COUNTY ROAD D TOTAL:		11567	1980	9322	319	497	23	4	10	144
HAZELWOOD STREET										
STATION 0+42.03 TO 6+17.84		52	0	125	556	17	23	1	1	72
HAZELWOOD STREET TOTAL:		52	0	125	556	17	23	1	1	72
PROJECT TOTAL:		11619	1980	9447	875	514	46	5	11	216

GENERAL NOTES:

- 1. 4-INCH BROKEN LINE WHITE OR YELLOW (10 FT. LINE, 40 FT. SPACE): TABULATED LENGTH DOES NOT INCLUDE GAP.
- 2. DOUBLE SOLID LINES WILL BE MEASURED BY THE ACTUAL LENGTH OF BOTH 4-INCH LINES, THAT IS, A DOUBLE SOLID LINE WITH A CENTERLINE DISTANCE OF 1000 FEET WILL BE MEASURED AS 1000 FEET OF DOUBLE SOLID LINE INSTALLED
- 3. PERMANENT EPOXY PAINT TO BE APPLIED BY OTHERS
- 4. PERMANENT POLY PREFORM TO BE APPLIED BY CONTRACTOR

28-260

PLOT DATE: Apr 27, 2005 8:48am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-ah\007-SP01.dwg

XREF DRAWINGS		DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
DRAWN BY: JCD		DESIGN BY: SAW	1	JCD	4/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: SP01	2	JCD	1/9/07	AS-BUILT
DATE: FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD		CITY PROJECT	02-07	SHEET NO.
COUNTY ROAD D		COUNTY PROJECT		11
SIGNING & STRIPING TABULATIONS		S.A.P.	138-121-03	99
		S.A.P.	138-112-05	

EARTHWORK BALANCE

EXCAVATION (CY)

COMMON	47,220	SELECT GRADING (GRANULAR)	42,620	42,620	(EV) / 1.2 =	35,517 (CV)
		SALVAGE TOPSOIL	4,600	4,600	(EV) / 1.2 =	3,833 (CV)
SUBGRADE	10,972	SELECT GRADING	10,972	10,972	(EV) / 1.2 =	9,144 (CV)
MUCK	30,728	UNSUITABLE	30,728	30,728	(EV) / 1.2 =	25,607 (CV)
SURCHARGE	18,878	SELECT GRANULAR	18,878	18,878	(EV) / 1.2 =	15,731 (CV) [5]
					[1]	89,832 (CV)

EMBANKMENT (CY)

[2]	84,509 (CV)	SELECT GRADING	33,740 (CV)
		SELECT GRANULAR	17,688 (CV)
		SELECT GRANULAR (5% MOD.)	24,130 (CV)
		TOPSOIL BORROW	8,951 (CV)

BORROW (CY)

BORROW	SELECT GRANULAR	2,799 LV / 1.4 =	1,967 (CV)	[3]	31,204 (CV)
	SELECT GRANULAR (5% MOD)	33,782 LV / 1.4 =	24,130 (CV)		
	TOPSOIL BORROW	7,165 LV / 1.4 =	5,118 (CV)		

EXCESS (CY)

GRANULAR	10,920 (CV)	SELECT GRADING
UNSUITABLE	25,607 (CV)	MUCK
	[4]	36,527 (CV)

NOTES:

- [1] TOTAL EXCAVATION (CV) REQUIRED FOR THIS PROJECT
- [2] TOTAL EMBANKMENT (CV) REQUIRED FOR THIS PROJECT
- [3] TOTAL BORROW (CV) REQUIRED FOR THIS PROJECT
- [4] TOTAL EXCESS
- [5] SURCHARGE EXCAVATION QUANTITIES ARE BASED ON SURVEY OF EXISTING CONDITIONS ON 6/16/05 AND 6/17/05. CONTRACTOR SHALL NOTE ADDITIONAL SETTLEMENT IS LIKELY TO HAVE OCCURRED PRIOR TO REMOVAL OF THE SURCHARGE MATERIAL.

EARTHWORK SUMMARY

LOCATION	STATION TO STATION	EXCAVATION (EV)					EMBANKMENT (CV)			
		2105.501 COMMON EXCAVATION (CY)	2105.501 SALVAGE TOPSOIL (CY)	2105.505 MUCK EXCAVATION (CY)	2105.507 SUBGRADE EXCAVATION (CY)	2105.501 SURCHARGE EXCAVATION (CY)	2105.522 SELECT GRADING (CY)	2105.522 SEL GRAN 5% MOD (CY)	2105.522 SEL GRAN (CY)	2105.525 TOPSOIL (CY)
		COUNTY ROAD D								
MUCKING AREA	51+50.00 - 53+23.98	0		30,082	0	4,591	21,465	23,561		
	63+00.00 - 71+00.00									
SURCHARGE AREA	53+23.98 - 63+00.00	0		358	0	14,287	1,889	290		
TOPSOIL AREA	71+00.00 - 88+00.00	36,813		288	4,536	0	6,992	279		
EXISTING AREA	88+00.00 - 108+88.69	4,341		0	5,373	0	2,756	0		
COUNTY ROAD D SUBTOTAL		41,154	4,000	30,728	9,909	18,878	33,101	24,130	16,768	
HAZELWOOD STREET	0+00.00 - 6+17.84	1,466	600	0	1,063	0	639	0	920	
HAZELWOOD STREET SUBTOTAL		1,466	600	0	1,063	0	639	0	920	
PROJECT TOTALS:		42,620	4,600	30,728	10,972	18,878	33,740	24,130	17,688	

28-260

PLOT DATE: Jun 30, 2005 1:23pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-ER-BAL-01.dwg

XREF DRAWINGS 2x34bdr	DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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	DESIGN BY: SAW	1	JCD	6/30/05	REVISED EARTHWORK QUANTITIES
	CHKD. BY: NCL	3	JCD	1/7/07	AS-BUILT
	DWG. NAME: ER-BAL-01.dwg				
	DATE: FEBRUARY 27, 2004				



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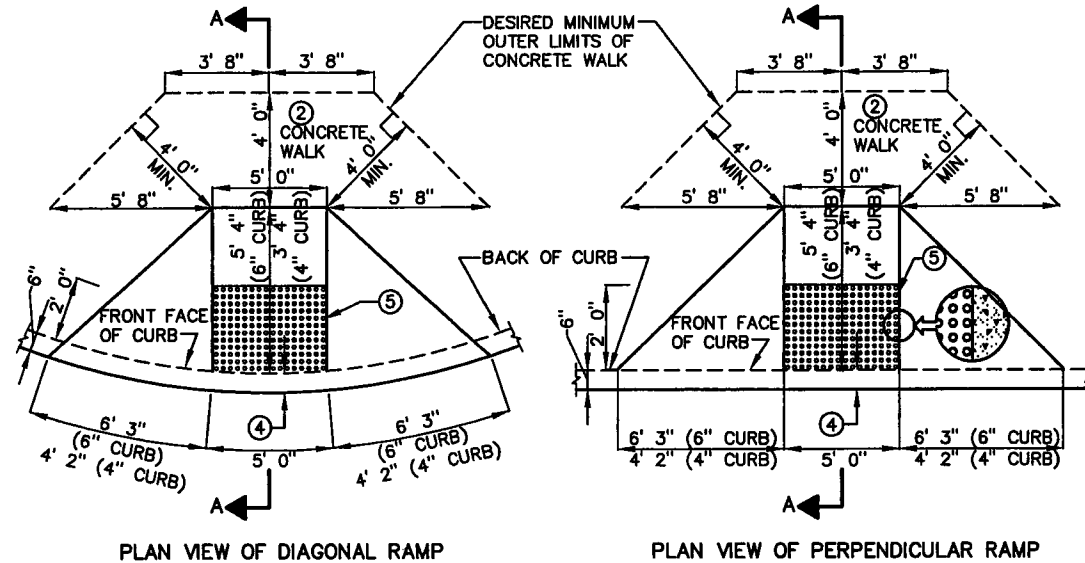
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
EARTHWORK SUMMARY AND BALANCE

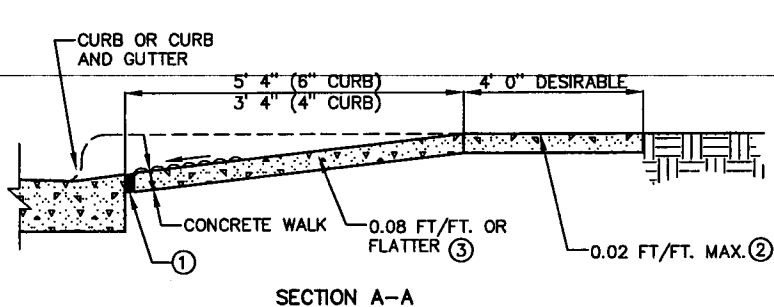
CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
12
99

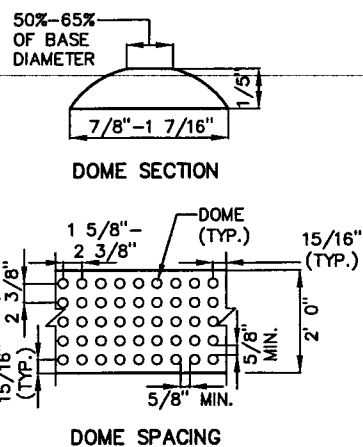


PLAN VIEW OF DIAGONAL RAMP

PLAN VIEW OF PERPENDICULAR RAMP

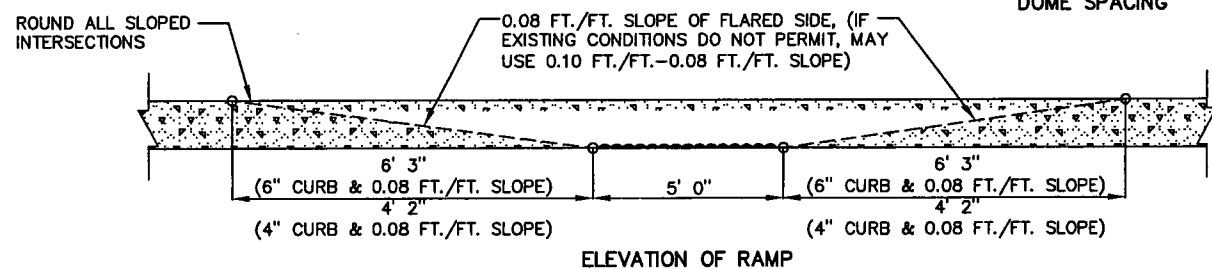


SECTION A-A



DOME SECTION

DOME SPACING



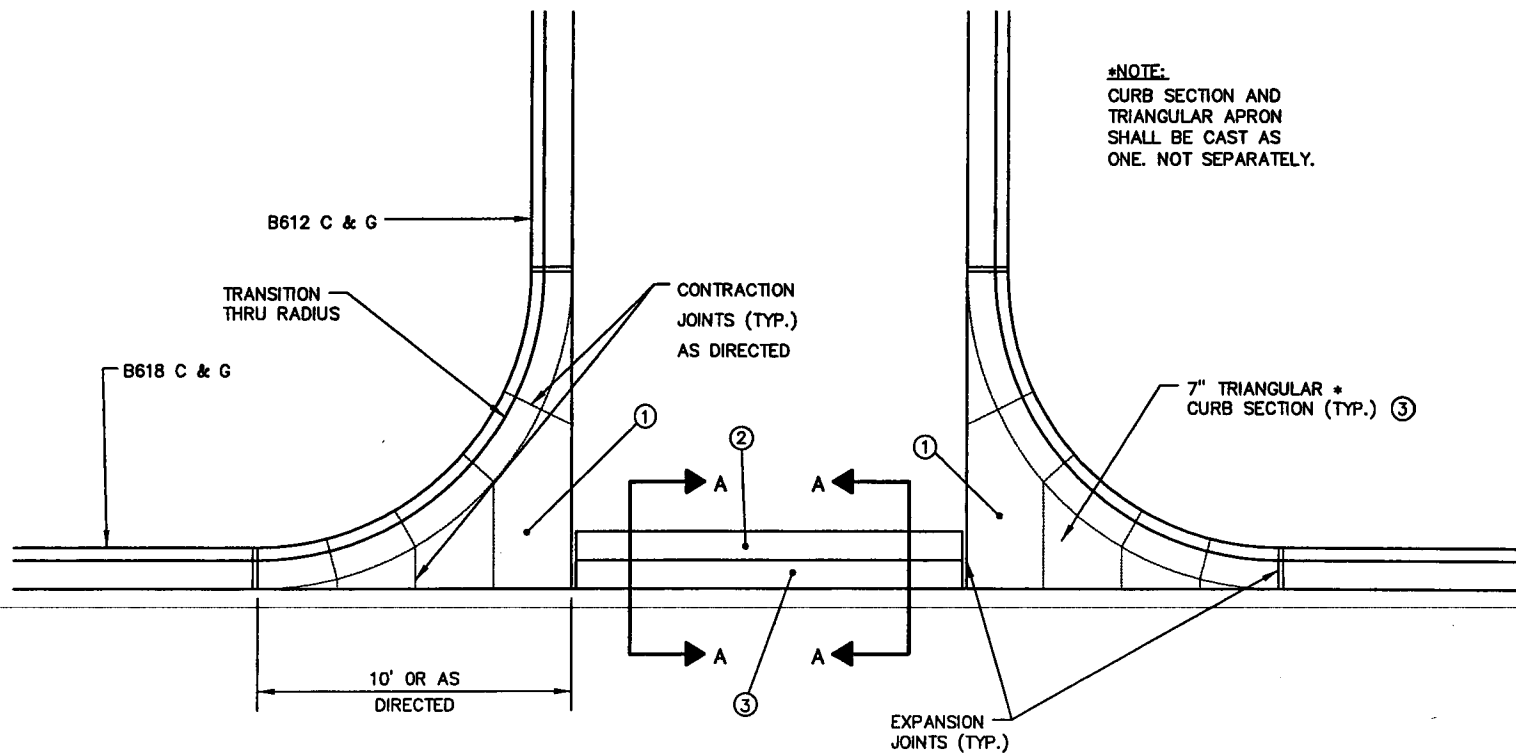
ELEVATION OF RAMP

TRUNCATED DOME PEDESTRIAN CURB RAMP

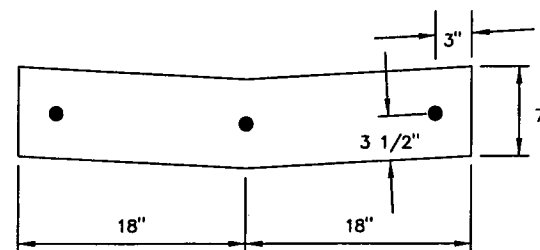
NOTES: THE CURB AND CURB TRANSITION ON THE RAMP WILL BE PAID FOR AS LINEAR FEET OF CONCRETE CURB OR CONCRETE CURB AND GUTTER. THE RAMP AREA WILL BE PAID FOR AS CONCRETE WALK. THE TRUNCATED DOME AREA SHALL BE CONSIDERED INCIDENTAL.

- ① 1/2 INCH PREFORMED JOINT FILLER MATERIAL, AASHTO M 213.
 - ② WHEN POSSIBLE, PROVIDE A PATH OF TRAVEL 4' 0" WIDE BEHIND THE PEDESTRIAN RAMP. A RELATIVELY FLAT 4' 0"x4' 0" LANDING WILL ALLOW WHEELCHAIRS TO NAVIGATE AROUND THE PEDESTRIAN RAMP.
 - ③ WHEN A MEDIAN IS NOT WIDE ENOUGH FOR TWO PEDESTRIAN RAMPS AND A 48" LANDING BETWEEN THEM, THE PEDESTRIAN CROSSING SHALL BE CUT THROUGH THE MEDIAN AT STREET LEVEL.
 - ④ 6" TO 8" IS THE REQUIRED OFFSET OF THE DETECTABLE WARNINGS/ TRUNCATED DOME AREA FROM THE FRONT FACE OF CURB, OR PLACE THE DETECTABLE WARNINGS AT THE BACK OF CURB.
 - ⑤ ADA REQUIRED TRUNCATED DOME AREA SHALL BE 2' 0" MIN. IN DIRECTION OF TRAVEL AND SHALL EXTEND THE FULL WIDTH (5'0") OF THE CURB RAMP. THIS 2' 0" BY 5' 0" WIDTH (TYP.) TRUNCATED DOME AREA SHALL CONTRAST VISUALLY WITH THE ADJACENT WALKING SURFACE. THE ENTIRE TRUNCATED DOME AREA SHALL BE A LIGHT COLOR (LIGHT GRAY, WHITE, OR YELLOW) WHEN THE ADJACENT SIDEWALK IS A DARK COLOR. THE ENTIRE TRUNCATED DOME AREA SHALL BE A DARK COLOR (RED, BLACK, DARK GRAY, OR BRIGHT YELLOW) WHEN THE ADJACENT SIDEWALK IS A "WHITE" OR LIGHT GRAY CEMENT COLOR.
- * THE TRUNCATED DOME AREA FOR THIS PROJECT SHALL BE "MESABI BLACK" GRANITE OR APPROVED EQUAL

28-260

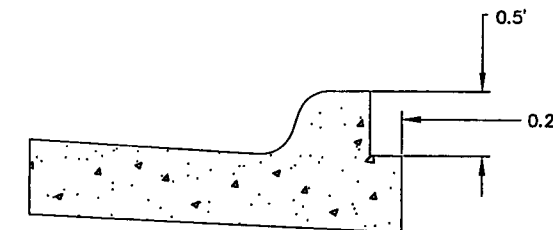


*NOTE: CURB SECTION AND TRIANGULAR APRON SHALL BE CAST AS ONE. NOT SEPARATELY.

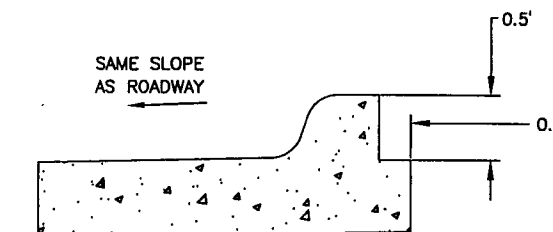


SEE ② BELOW

SECTION A - A



B624 C&G(MOD.)



OUTFALL CURB & GUTTER (MOD.)

DESIGN B CURB MODIFIED DETAILS

FOR INFORMATION NOT SHOWN, REFER TO STANDARD PLATE 7100G.

- ① PAID FOR AS 7" CONCRETE DRIVEWAY PAVEMENT
- ② PAID FOR AS CONCRETE VALLEY GUTTER
- ③ PLACE ON MIN. 10" CLASS 5 AGGREGATE BASE

CONCRETE VALLEY GUTTER

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PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBUILTS\007-DT01.dwg

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	DRAWN BY: 43932-007		DESIGN BY: NCL		
	CHKD. BY: NCL		DWG. NAME: DT01		
	DATE: FEBRUARY 27, 2004				



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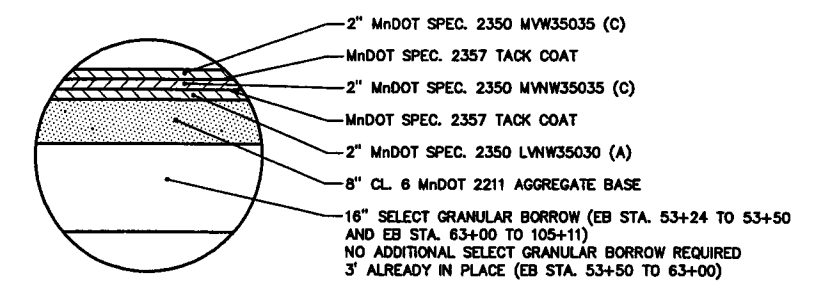
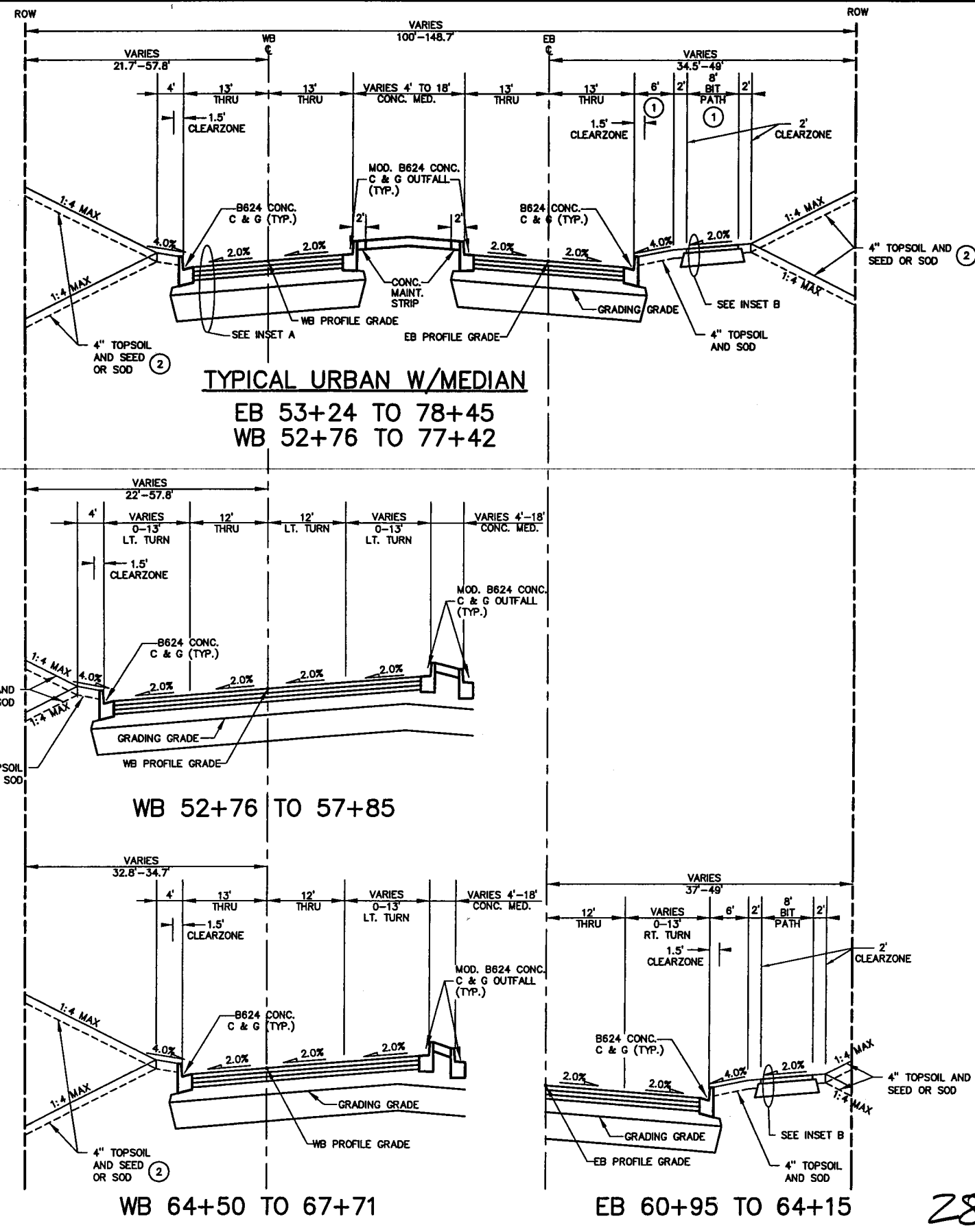
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Gregory S. Brown
GREGORY S. BROWN
DATE: 4/1/2004 MN LIC. NO. 22814

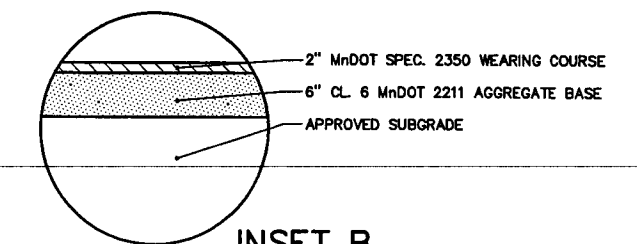
CITY OF MAPLEWOOD
COUNTY ROAD D

TYPICAL DETAILS

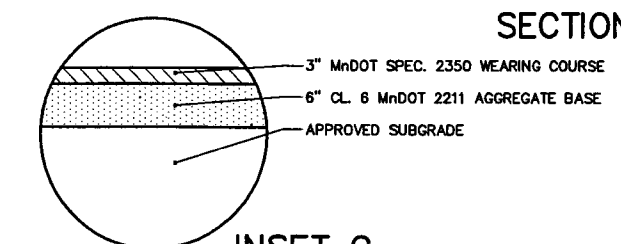
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COUNTY PROJECT		13
S.A.P.	138-121-03	
S.A.P.	138-112-05	99



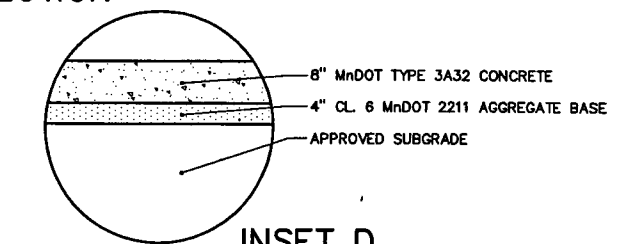
INSET A
 BITUMINOUS PAVEMENT SECTION
 COUNTY ROAD D
 HAZELWOOD STREET



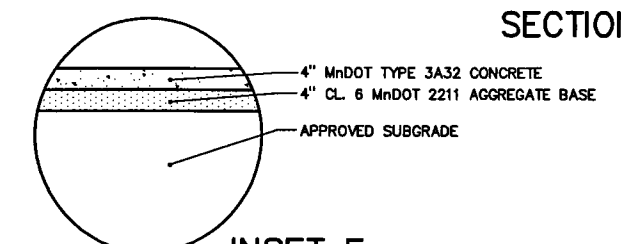
INSET B
 BITUMINOUS PATHWAY SECTION



INSET C
 BITUMINOUS DRIVEWAY SECTION



INSET D
 CONCRETE DRIVEWAY SECTION



INSET E
 CONCRETE SIDEWALK SECTION

GENERAL NOTES
 GRADING GRADE CROSS SLOPES WILL BE THE SAME AS FINISH GRADE, UNLESS SPECIFIED OTHERWISE.

NOTES
 ① 8.0' BLVD. AND 8.0' BIT. PATH FROM EB STA: 53+24 TO 74+04.5
 4.0' BLVD. AND 12.0' BIT. PATH FROM EB STA: 74+04.5 TO 81+85
 9.0' BLVD. AND 8.0' CONC WALK FROM EB STA: 82+58 TO 86+50
 FROM EB STA: 89+50 TO 91+34 AND FROM EB STA: 95+34 TO 101+91

② SEE RESTORATION PLAN

28-260

PLOT DATE: Nov 03, 2005 11:06am DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\007-pln-ant\007-TYP1.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BAC	08/03/04	REVISED PER MnDOT COMMENTS
2	JCD	04/21/05	REVISED PER CHANGE ORDER #13
3	SAW	11/04/05	REVISED PATH WIDTH STA. 74+04.5 TO STA. 81+85
4	JCD	01/09/07	AS-BUILT



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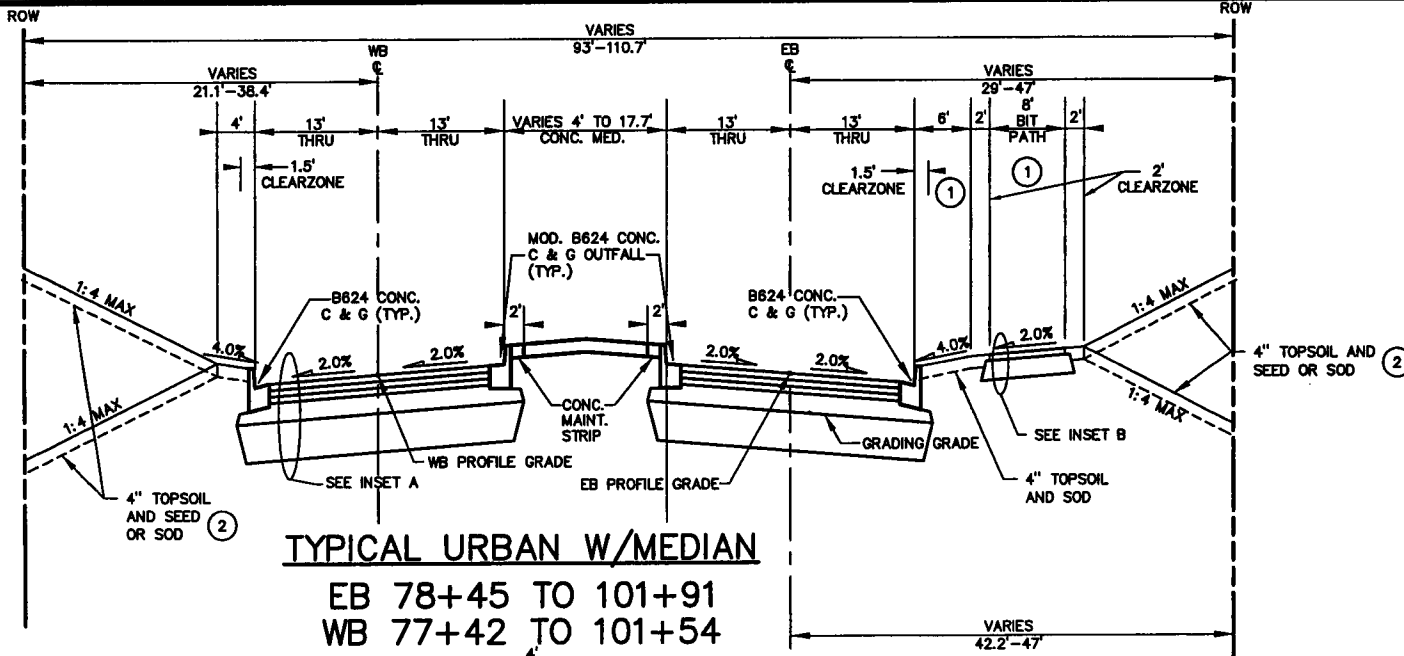
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Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
 COUNTY ROAD D

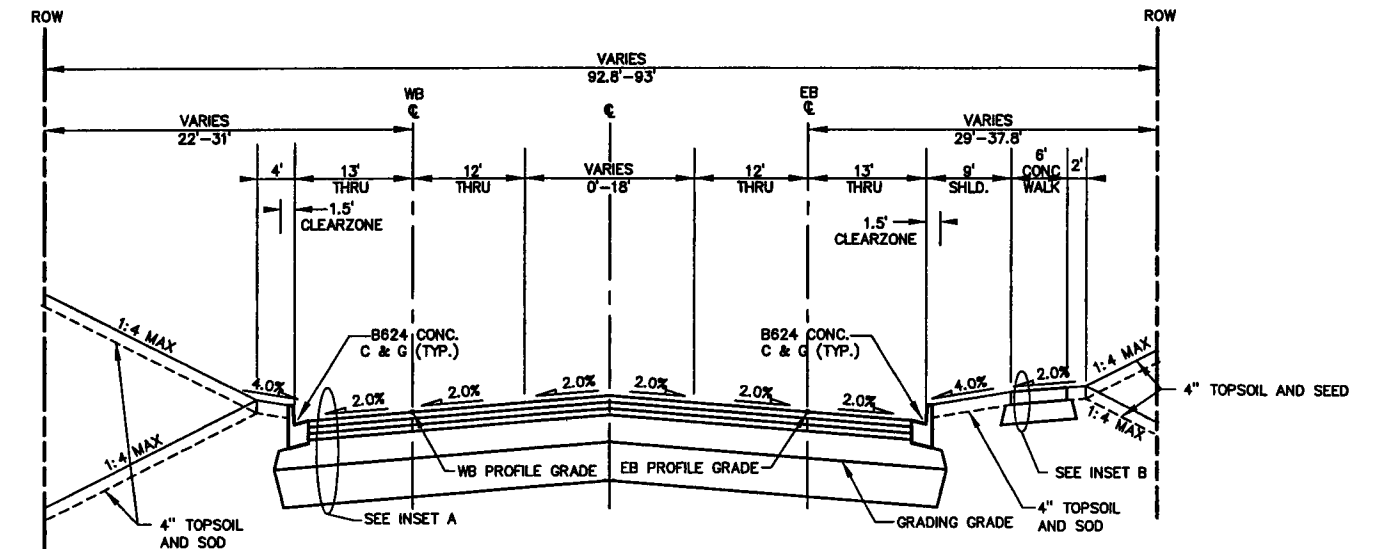
TYPICAL SECTIONS

CITY PROJECT	02-07
COUNTY PROJECT	14
S.A.P.	138-121-03
S.A.P.	138-112-05

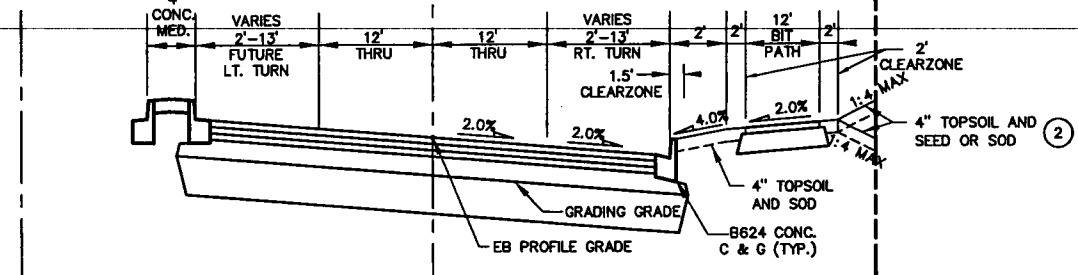
SHEET NO.
 14
 99



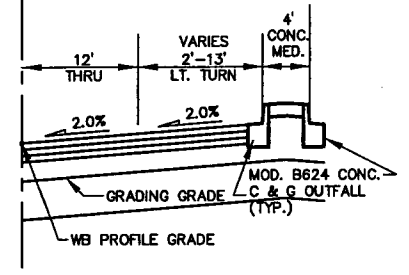
TYPICAL URBAN W/MEDIAN
 EB 78+45 TO 101+91
 WB 77+42 TO 101+54



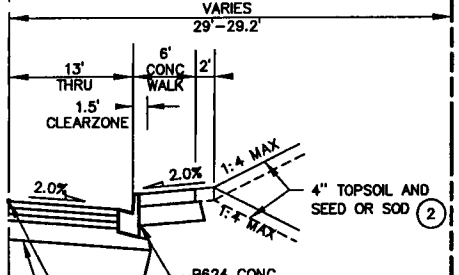
TYPICAL 4 LANE URBAN
 EB 101+91 TO 105+11
 WB 101+54 TO 104+74



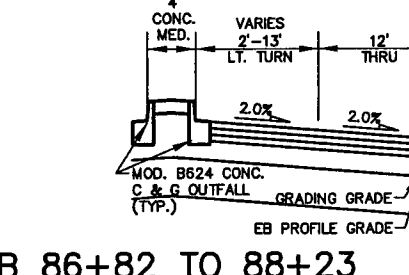
EB 78+45 TO 81+64



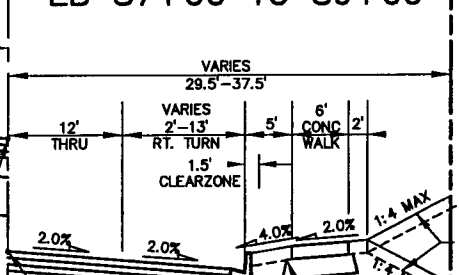
WB 82+14 TO 85+25
 WB 95+04 TO 98+28



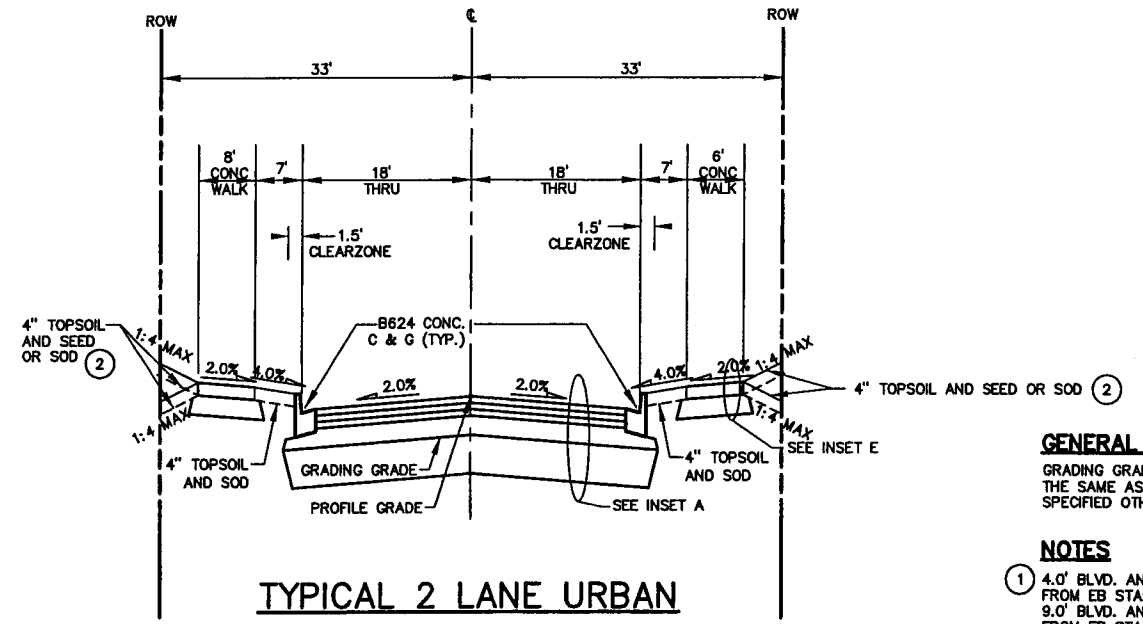
EB 87+00 TO 89+00



EB 86+82 TO 88+23
 EB 89+39 TO 90+83
 EB 93+11 TO 94+55
 EB 100+47 TO 101+91



EB 91+33 TO 94+45



TYPICAL 2 LANE URBAN
 HAZELWOOD STREET
 1+81 TO 5+85

GENERAL NOTES
 GRADING GRADE CROSS SLOPES WILL BE THE SAME AS FINISH GRADE, UNLESS SPECIFIED OTHERWISE.

- NOTES**
- ① 4.0' BLVD. AND 12.0' BIT. PATH FROM EB STA: 74+04.5 TO 81+85
 9.0' BLVD. AND 6.0' CONC WALK FROM EB STA: 82+58 TO 86+50,
 FROM EB STA: 89+50 TO 91+34 AND FROM EB STA: 95+34 TO 101+91
 - ② SEE RESTORATION PLAN

28-260

PLOT DATE: Nov 03, 2005 11:08am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-p1n-sh1\007-TYP2.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BAC	06/03/04	REVISED PER MNDOT COMMENTS
2	JCD	04/21/05	REVISED PER CHANGE ORDER #13
3	SAW	11/04/05	REVISED PATH WIDTH STA. 74+04.5 TO STA. 81+85
4	JCD	01/08/07	AS-BUILT



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Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

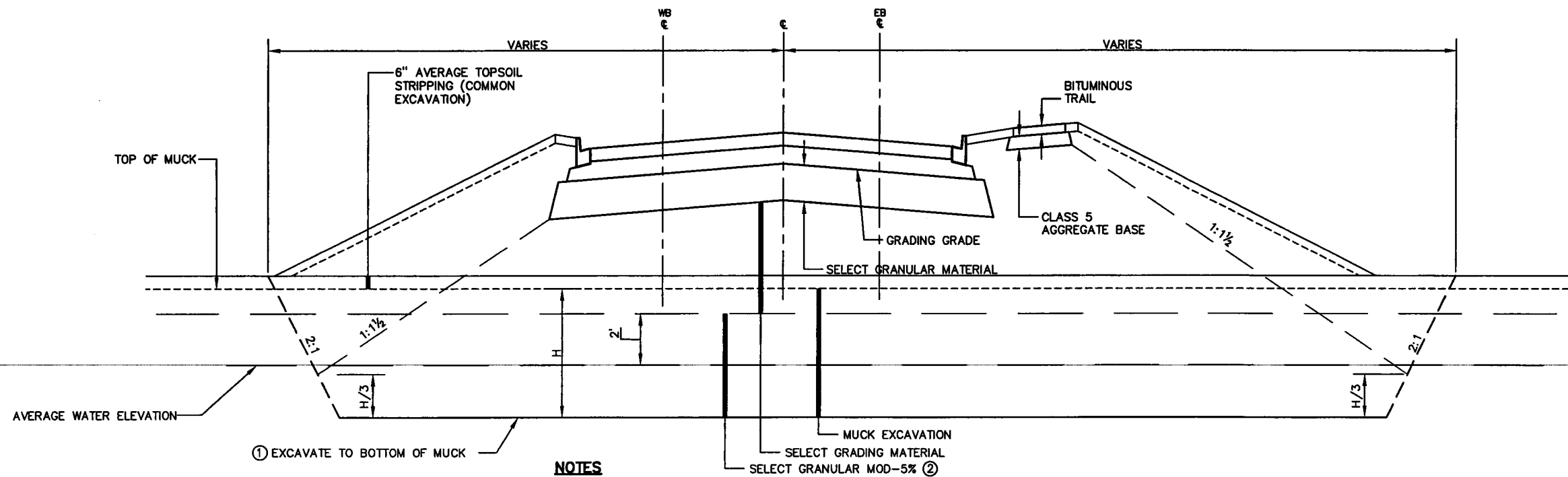
CITY OF MAPLEWOOD
 COUNTY ROAD D

TYPICAL SECTIONS

CITY PROJECT	02-07	SHEET NO.	15
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBUILTS\007-TYP3.dwg

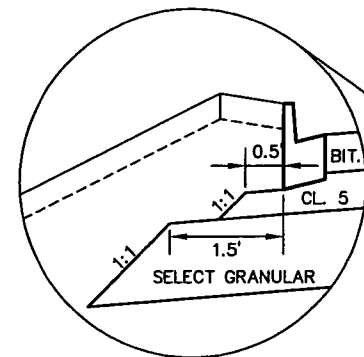
MUCK EXCAVATION



① EXCAVATE TO BOTTOM OF MUCK

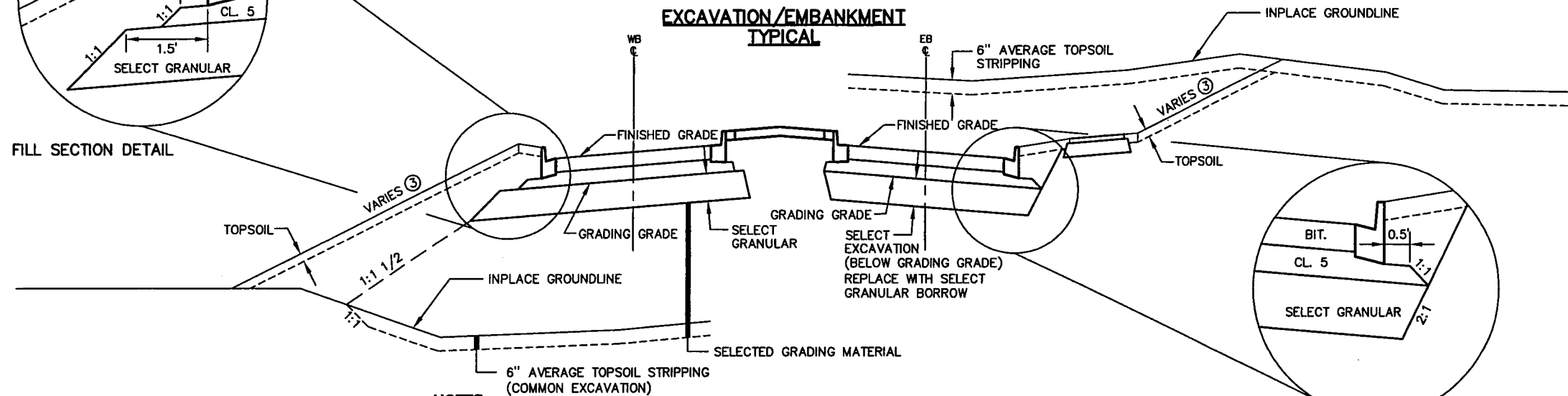
NOTES

- ① SEE PROFILES AND CROSS SECTIONS FOR APPROXIMATE MUCK EXCAVATION DEPTH.
- ② BACKFILL WITH SELECT GRANULAR MOD-5% TO LOCAL WATER LEVEL PLUS 2.0'.



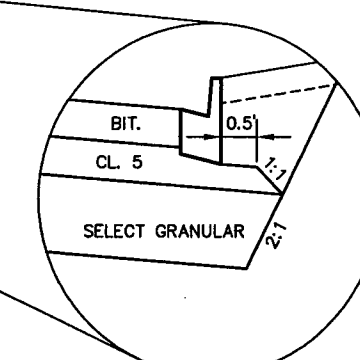
FILL SECTION DETAIL

EXCAVATION/EMBANKMENT TYPICAL



NOTES

- ③ SEE CROSS SECTIONS FOR APPROPRIATE SLOPE RATIO.



CUT SECTION DETAIL

28-260

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	DRAWN BY: 43932-007				
	DESIGN BY: SAW				
	CHKD. BY: NCL				
	DWG. NAME: TYP3				
	DATE: FEBRUARY 27, 2005				



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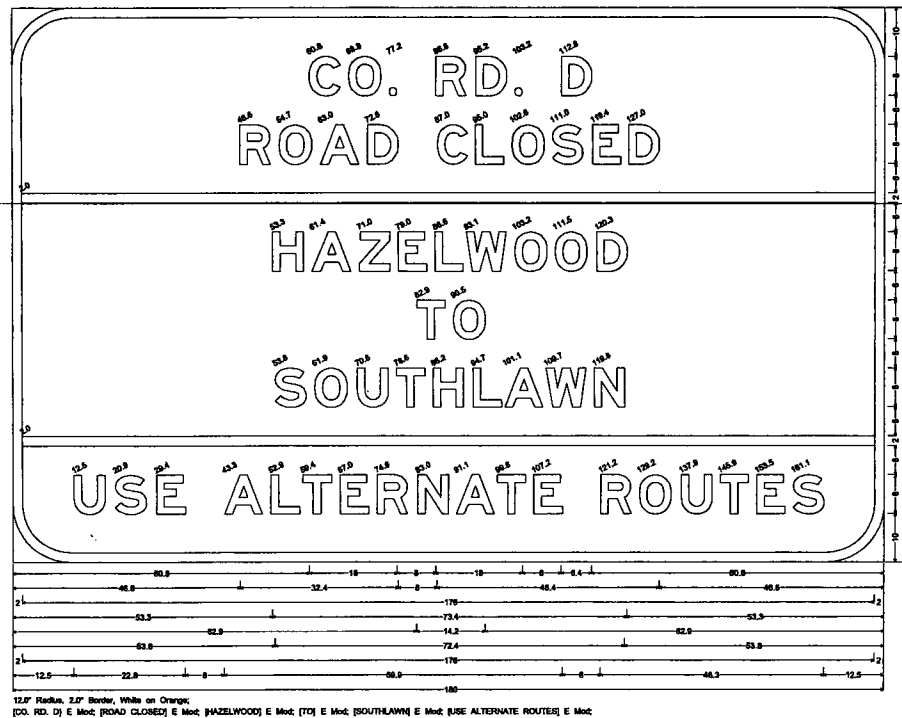
Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

TYPICAL SECTIONS
MUCK EXCAVATION TYPICAL
EXCAVATION AND EMBANKMENT TYPICAL

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		16
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sh\007-ASBUILTS\007-TR1.dwg



NOTES:
1. ALL DIMENSIONS AND SIZES ARE SUBJECT TO FINAL VERIFICATION BEFORE FABRICATION BEGINS.



NOTES:
1. ALL DIMENSIONS AND SIZES ARE SUBJECT TO FINAL VERIFICATION BEFORE FABRICATION BEGINS.

TRAFFIC CONTROL			
SIGN	SIGN NO.	SIZE AND COLOR	QUANTITY
	TYPE III BARRICADE	BLACK ON WHITE	18
	R11-4	60" x 30" BLACK ON WHITE	5
	W20-3	36" x 36" BLACK ON ORANGE	1
	SPECIAL	180" x 114" BLACK ON WHITE	3
	SPECIAL	138" x 96" BLACK ON WHITE	2

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28-260

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
22x34bdr	43932-007	1	BAC	1/11/2005	AS-BUILT
	DRAWN BY: NCL				
	DESIGN BY: NCL				
	CHKD. BY: NCL				
	DWG. NAME: TR1				
	DATE: FEBRUARY 27, 2004				



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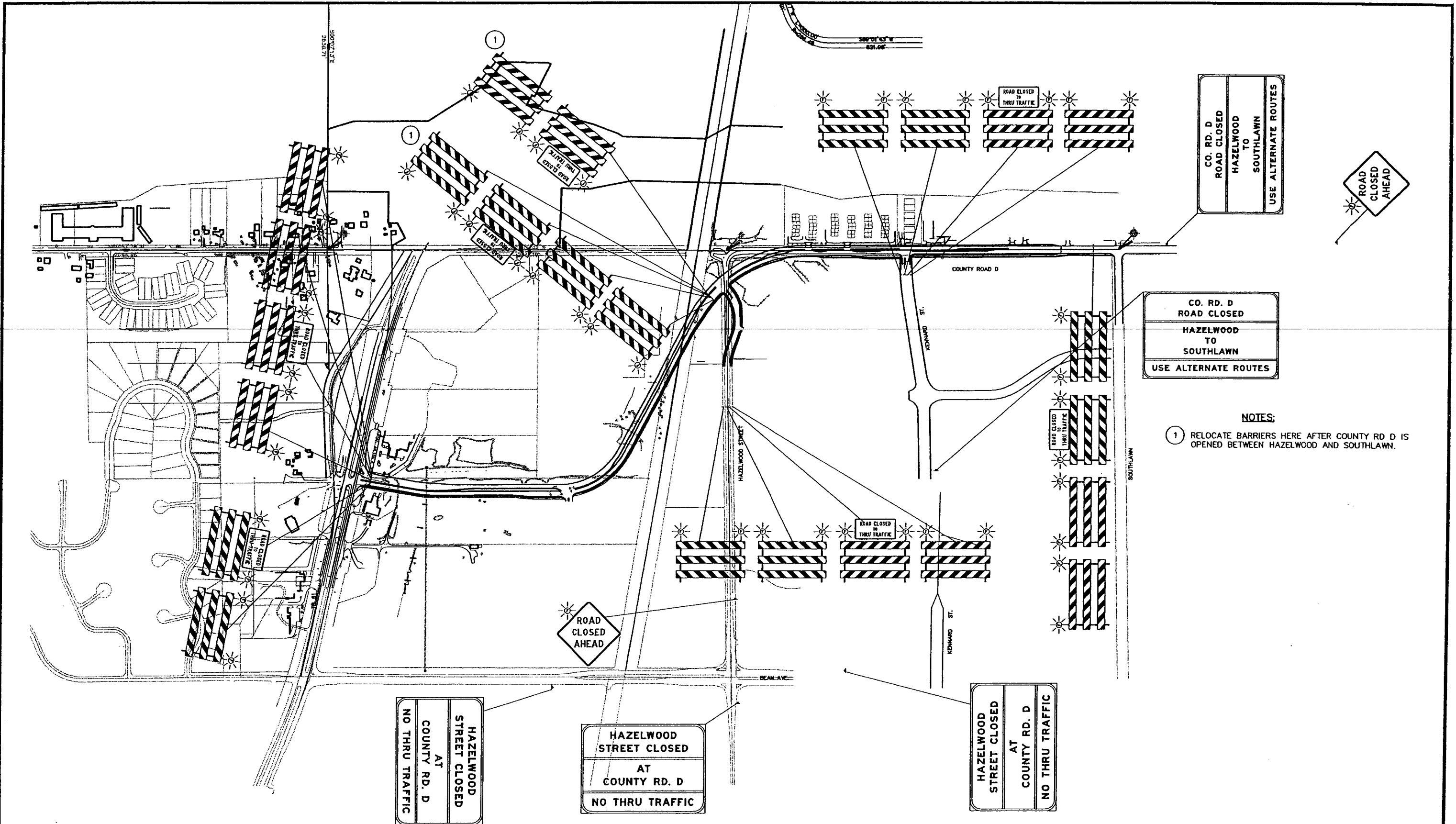
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KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

TRAFFIC CONTROL DETAILS AND TABULATIONS

CITY PROJECT	02-07	SHEET NO. 17
COUNTY PROJECT		
S.A.P.	138-121-03	99
S.A.P.	138-112-05	

PLOT DATE: Apr 27, 2005 10:42am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-TR2.dwg



CO. RD. D
ROAD CLOSED
HAZELWOOD
TO
SOUTHLAWN
USE ALTERNATE ROUTES

CO. RD. D
ROAD CLOSED
HAZELWOOD
TO
SOUTHLAWN
USE ALTERNATE ROUTES

NOTES:

- 1 RELOCATE BARRIERS HERE AFTER COUNTY RD D IS OPENED BETWEEN HAZELWOOD AND SOUTHLAWN.

HAZELWOOD
STREET CLOSED
AT
COUNTY RD. D
NO THRU TRAFFIC

HAZELWOOD
STREET CLOSED
AT
COUNTY RD. D
NO THRU TRAFFIC

HAZELWOOD
STREET CLOSED
AT
COUNTY RD. D
NO THRU TRAFFIC

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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007-PCO		DESIGN BY:				
2x34b-dr		MRH-PMJ				
		NCL				
		CHKD. BY:				
		NCL				
		DWG. NAME:				
		TR2				
		DATE:				
		FEBRUARY 27, 2004				



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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
DETOUR AND TRAFFIC CONTROL

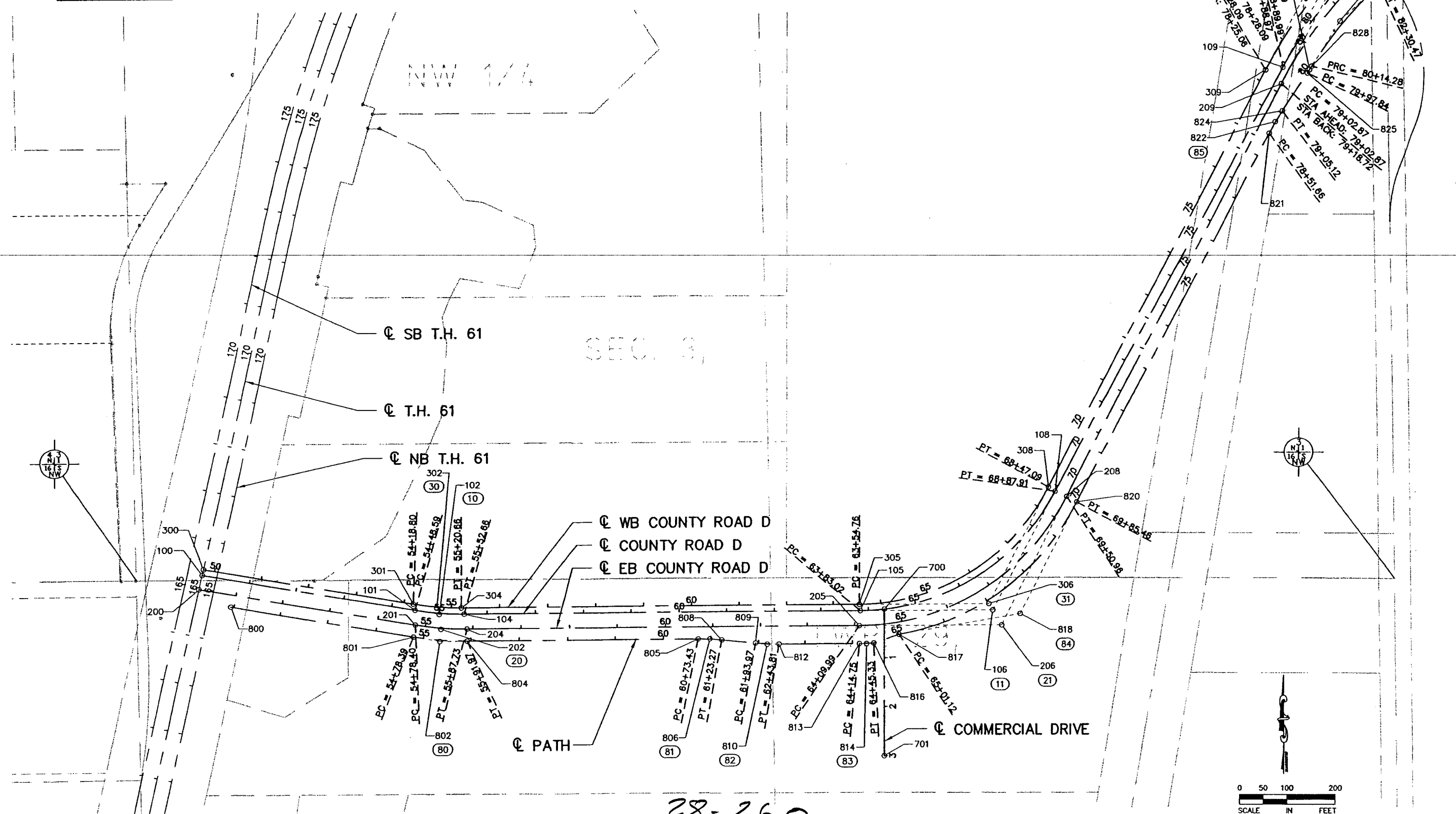
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COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
18
99

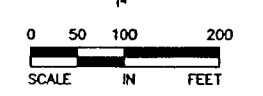
HORIZONTAL AND VERTICAL CONTROL

HORIZONTAL DATUM: IS THE RAMSEY COUNTY COORDINATES NAD83 (1986) - US FEET
 VERTICAL DATUM: NGVD 29 - US FEET

PLOT DATE: Apr 26, 2005 5:30pm DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\007-pln-sht\007-ALN-01.dwg



28-260



XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-AJ 007-ESU-CTY-D 22x34bdr		43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	ALN-01					
DATE:						
FEBRUARY 27, 2004						



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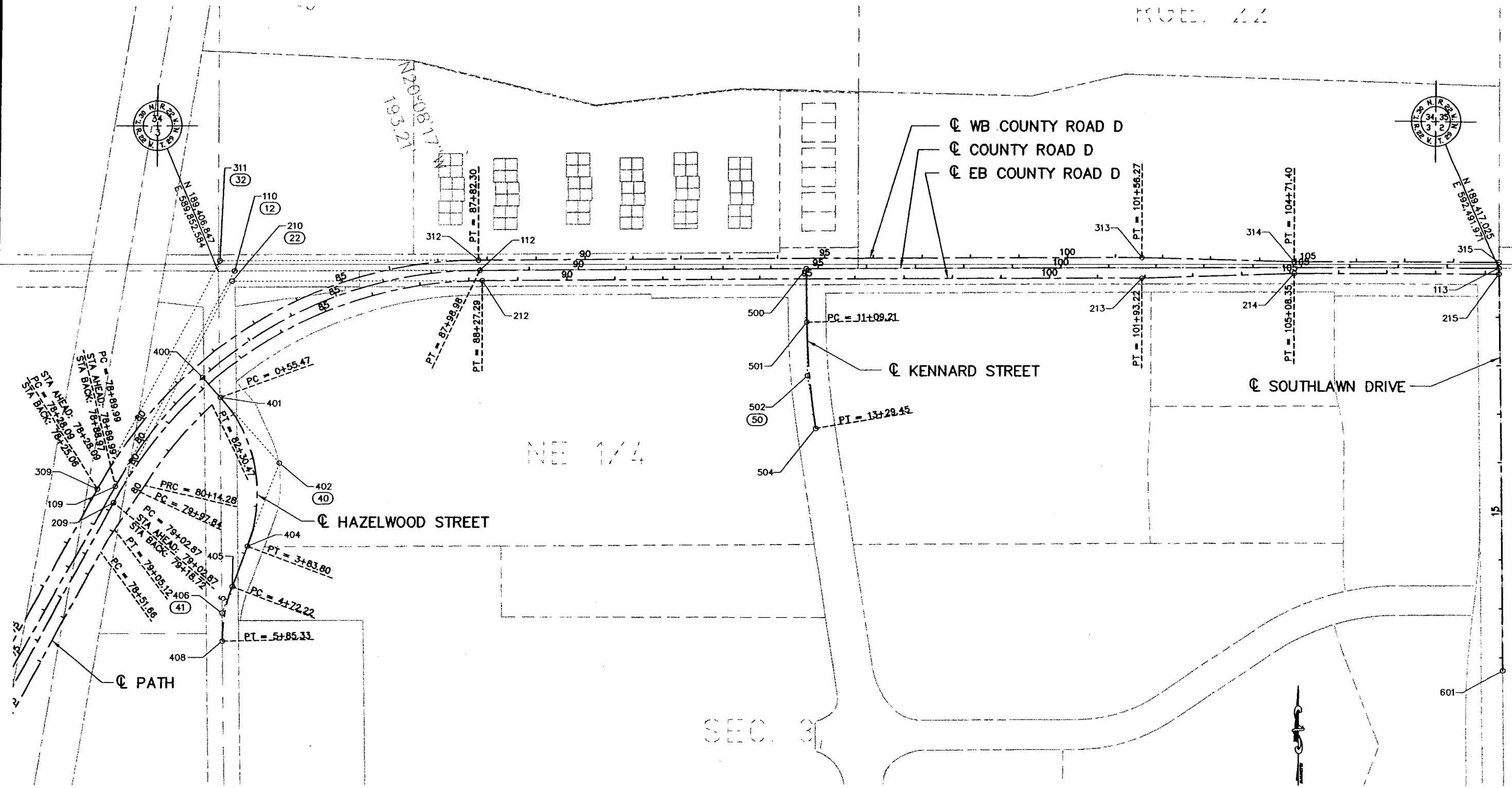
Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

ALIGNMENT LAYOUT
 COUNTY ROAD D AND TRUNK HIGHWAY 61

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		19
S.A.P.	138-121-03	99
S.A.P.	138-112-05	

HORIZONTAL AND VERTICAL CONTROL
 HORIZONTAL DATUM: IS THE RAMSEY COUNTY COORDINATES NAD83 (1986) - US FEET
 VERTICAL DATUM: NGVD 29 - US FEET



PLOT DATE: Apr 26, 2005 4:59pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh1\007-ALN-02.dwg

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-ETO		43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
007-PCO			2	NCL	1/9/07	AS-BUILT
urs-mp1wd-plot						
007-ALJ						
007-ESJ-CITY-D						
22x34bdr						
CHKD. BY:	NCL	OWG. NAME:				
DATE:	FEBRUARY 27, 2004	ALN-02				



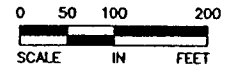
Thresher Square
 700 Third Street South
 Minneapolis, MN 55416
 612.376.0700 Tel
 612.376.1378 Fax

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.
Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
 ALIGNMENT LAYOUT
 COUNTY ROAD D, HAZELWOOD STREET,
 KENNARD STREET AND SOUTHLAWN DRIVE

CITY PROJECT	02-07
COUNTY PROJECT	138-121-03
S.A.P.	138-112-05

SHEET NO.
 20
 99



PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-ent\007-plr-ent\007-ALN-TAB-01.dwg

COUNTY ROAD D						ALIGNMENT DATA							
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
100		COUNTY ROAD D (CENTERLINE)	POT	50+00.20							187,921.465	587,377.649	99°39'08"
101			PC	54+48.59							187,846.284	587,819.688	
102	(10)		PI	55+00.75		9°43'38" L	9°20'48"	613.000	52.161	104.070	187,837.538	587,871.110	PI
103			CC								188,450.606	587,922.470	
104			PT	55+52.66							187,837.606	587,923.271	89°55'30"
105			PC	63+83.02							187,838.691	588,753.633	
106	(11)		PI	66+62.78		61°25'06" L	12°09'53"	471.000	279.762	504.890	187,839.057	589,033.394	PI
107			CC								188,309.691	588,753.017	
108			PT	68+87.91							188,084.901	589,166.914	28°30'24"
				EQUATION:	78+88.968 BACK = 78+89.990 AHEAD								
109			PC	78+89.99							188,964.592	589,644.680	
110	(12)		PI	83+93.40		61°16'20" R	6°44'26"	850.000	503.413	908.994	189,406.972	589,884.940	PI
111			CC								188,558.919	590,391.627	
112			PT	87+98.98							189,408.913	590,388.349	89°46'45"
113			POT	109+02.62							189,417.025	592,491.971	

EB COUNTY ROAD D						ALIGNMENT DATA							
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
200		COUNTY ROAD D (EASTBOUND)	POT	50+22.71							187,892.135	587,371.174	99°39'08"
201			PC	54+78.40							187,815.730	587,820.409	
202	(20)		PI	55+33.20		9°43'38" L	8°53'49"	644.000	54.798	109.333	187,806.542	587,874.432	PI
203			CC								188,450.613	587,928.388	
204			PT	55+87.73							187,806.614	587,929.230	89°55'30"
205			PC	64+09.99							187,807.688	588,751.494	
206	(21)		PI	67+10.64		62°14'21" L	11°30'19"	498.000	300.645	540.966	187,808.081	589,052.138	PI
207			CC								188,305.688	588,750.843	
208			PT	69+50.96							188,074.304	589,191.826	27°41'010"
				EQUATION:	79+18.72 BACK = 79+02.87 AHEAD								
209			PC	79+02.87							188,931.265	589,641.473	
210	(22)		PI	84+16.35		62°05'35" R	6°43'01"	853.000	513.477	924.420	189,385.953	589,880.048	PI
211			CC								188,534.939	590,396.811	
212			PT	88+27.29							189,387.933	590,393.522	89°46'45"
213			PT	101+93.23							189,393.200	591,759.448	88°08'33"
214			PT	105+08.36							189,403.415	592,074.411	89°46'45"
215			POT	110+26.15							189,405.026	592,492.204	

WB COUNTY ROAD D						ALIGNMENT DATA							
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
300		COUNTY ROAD D (WESTBOUND)	POT	49+76.83							187,933.197	587,380.239	99°39'08"
301			PC	54+18.80							187,859.092	587,815.949	
302	(30)		PI	54+69.85		9°43'38" L	9°32'57"	600.000	51.054	101.863	187,850.532	587,866.281	PI
303			CC								188,450.598	587,916.551	
304			PT	55+20.66							187,850.599	587,917.335	89°55'30"
305			PC	63+54.76							187,851.688	588,751.436	
306	(31)		PI	66+28.27		62°07'58" L	12°37'13"	454.000	273.507	492.328	187,852.046	589,024.943	PI
307			CC								188,305.688	588,750.843	
308			PT	68+47.09							188,094.002	589,152.471	27°47'32"
				EQUATION:	78+25.060 BACK = 78+28.090 AHEAD								
309			PC	78+28.09							188,959.157	589,608.468	
310	(32)		PI	83+57.91		61°59'12" R	6°29'46"	882.000	529.820	954.211	189,427.858	589,855.506	PI
311			CC								188,547.908	590,388.723	
312			PT	87+82.30							189,429.901	590,385.322	89°46'45"
313			PT	101+56.27							189,435.200	591,759.283	91°24'56"
314			PT	104+71.40							189,427.415	592,074.316	89°46'45"
315			POT	108+89.01	28-260						189,429.025	592,491.925	

XREF DRAWINGS
2x34bdr

DESIGN FILE: 43932-007	REV. NO. 1	BY PMJ	DATE 4/21/05	REVISIONS DESCRIPTION REVISD PER CHANGE ORDER #13
DRAWN BY: PMJ	DESIGN BY: NCL	2	VED	1/9/07 AS-BUILT
CHECKED BY: NCL	DWG. NAME: ALN-TAB-01			
DATE: FEBRUARY 27, 2004				



Threeher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1376 Fax

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.
K.P. KEEL
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
ALIGNMENT TABULATION
COUNTY ROAD D, HAZELWOOD STREET
AND KENNARD STREET

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
21
99

HAZELWOOD STREET													
ALIGNMENT DATA													
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
400		HAZELWOOD STREET	POT	0+00.00							189,189.007	589,821.110	137°46'52"
401			PC	0+55.47							189,147.924	589,858.387	
402	(40)		PI	2+38.25		62°42'18" RT	19°05'55"	300.000	182.780	328.323	189,012.561	589,981.208	PI
403			CC								188,946.334	589,636.212	
404			PT	3+83.80							188,841.341	589,917.239	200°29'010"
405			PC	4+72.22							188,758.512	589,886.294	
406	(41)		PI	5+29.45		21°36'09" LT	19°05'55"	300.000	57.235	113.110	188,704.897	589,866.263	PI
407			CC								188,653.518	590,167.321	
408			PT	5+85.33							188,647.673	589,867.378	178°53'01"
409			POT	14+85.33							187,747.844	589,884.914	

KENNARD STREET													
ALIGNMENT DATA													
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
500		KENNARD STREET	POT	10+00.00							189,411.521	591,064.705	178°58'43"
501			PC	11+09.21							189,302.330	591,066.652	
502	(50)		PI	12+19.53		8°24'46" LT	3°49'11"	1500.000	110.321	220.246	189,192.026	591,068.618	PI
503			CC								189,329.069	592,566.414	
504			PT	13+29.45							189,083.198	591,086.702	

SOUTHLAWN DRIVE													
ALIGNMENT DATA													
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
600		SOUTHLAWN DRIVE	POT	10+00.000							189,417.025	592,491.971	178°53'11"
601			POT	18+26.278							188,590.903	592,508.029	

COMMERCIAL DRIVE													
ALIGNMENT DATA													
POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
700		COMMERCIAL DRIVE	POT	0+00.00							187,841.489	588,804.281	179°59'60"
701			POT	3+00.00							187,541.489	588,804.281	

28-260

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sh1\007-pln-sh1\007-ALN-TAB-02.dwg

XREF DRAWINGS		DESIGN FILE:		REV. NO.	BY	DATE	REVISIONS DESCRIPTION
2x34bdr		43932-007		1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
DRAWN BY:	DESIGN BY:	2	NCL	1/9/07			AS-BUILT
CHKD. BY:	DWG. NAME:		ALN-TAB-02				
	DATE:						
	FEBRUARY 27, 2004						



Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.0378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

ALIGNMENT TABULATION
HAZELWOOD STREET, KENNARD STREET
AND SOUTHLAWN DRIVE

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
22
99

Q PATH

ALIGNMENT DATA

POINT NUMBER	CURVE NUMBER	ROADWAY	POINT TYPE	STATION	NOTES	CURVE DATA					COORDINATES		AZIMUTH
						DELTA	DEGREE	RADIUS (FT.)	TANGENT (FT.)	LENGTH (FT.)	NORTHING	EASTING	
800		PATH	POT	50+93.26							187,855.660	587,436.535	99°39'08"
801			PC	54+78.39							187,791.084	587,816.217	
802	(80)		PI	55+35.32		9°43'38" L	8°33'52"	669.000	56.926	113.578	187,781.540	587,872.337	PI
803			CC								188,450.613	587,928.388	
804			PT	55+91.97							187,781.614	587,929.263	89°55'30"
805			PC	60+73.43							187,782.243	588,410.718	
806	(81)		PI	60+98.37		5°42'41" R	11°27'33"	500.000	24.941	49.841	187,782.276	588,435.659	PI
807			CC								187,282.244	588,411.371	
808			PT	61+23.27							187,779.826	588,460.479	95°38'11"
809			PC	61+93.97							187,772.882	588,530.838	
810	(82)		PI	62+18.91		5°42'41" L	11°27'33"	500.000	24.941	49.841	187,770.432	588,555.659	PI
811			CC								188,270.465	588,579.946	
812			PT	62+43.81							187,770.465	588,580.600	89°55'30"
813			PC	64+14.75							187,770.688	588,751.542	
814	(83)		PI	64+30.04		3°16'27" L	10°42'34"	535.000	15.291	30.574	187,770.708	588,766.833	PI
815			CC								188,305.688	588,750.843	
816			PT	64+45.33							187,771.602	588,782.098	71°17'42"
817			PC	65+01.12	NON-TANGENTIAL CURVE						187,789.494	588,834.943	
818	(84)		PI	67+62.22		53°03'38" L	10°57'19"	523.000	261.103	484.339	187,831.480	589,092.648	PI
819			CC								188,305.688	588,750.843	
820			PT	69+85.46							188,062.689	589,213.963	27°41'010"
821			PC	78+51.66							188,829.719	589,616.424	
822	(85)		PI	78+78.42		6°07'35" R	11°27'33"	500.000	26.756	53.462	188,853.412	589,628.856	PI
823			CC								188,597.406	590,059.178	
824			PT	79+05.12							188,875.643	589,643.745	33°48'44"
825			PC	79+97.84							188,952.675	589,695.338	
826	(86)		PI	80+06.06		1°53'03" L	11°27'33"	500.000	8.222	16.442	188,959.507	589,699.913	PI
827			CC								189,230.912	589,279.906	
828			PRC	80+14.28							188,966.485	589,704.262	
829	(87)		PI	81+23.01		15°10'48" R	7°01'18"	816.000	108.732	216.190	189,058.767	589,761.765	PI
830			PT	82+30.47							189,132.772	589,841.426	

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan--sh\007-pln--sh\007-ALN-TAB-03.dwg

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
2x34bdr		43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
DRAWN BY:	DESIGN BY:		2	JED	1/9/07	AS-BUILT
CHKD. BY:	DWG. NAME:					
NCL	ALN-TAB-03					
DATE:						
FEBRUARY 27, 2005						



Threeher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1376 Fax

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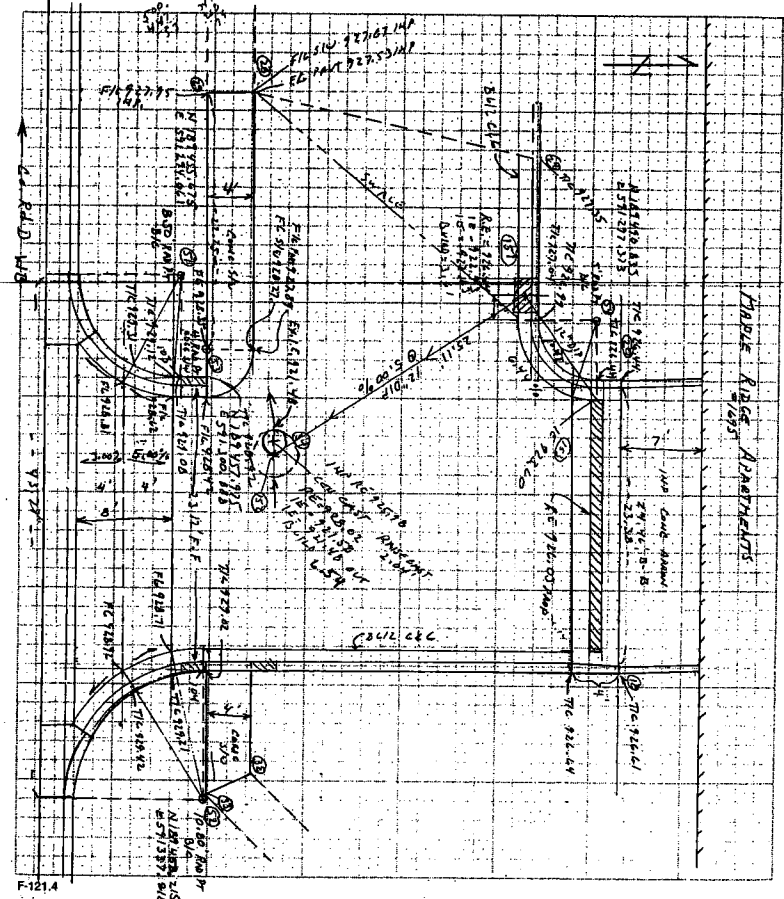
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
ALIGNMENT TABULATION
PATH

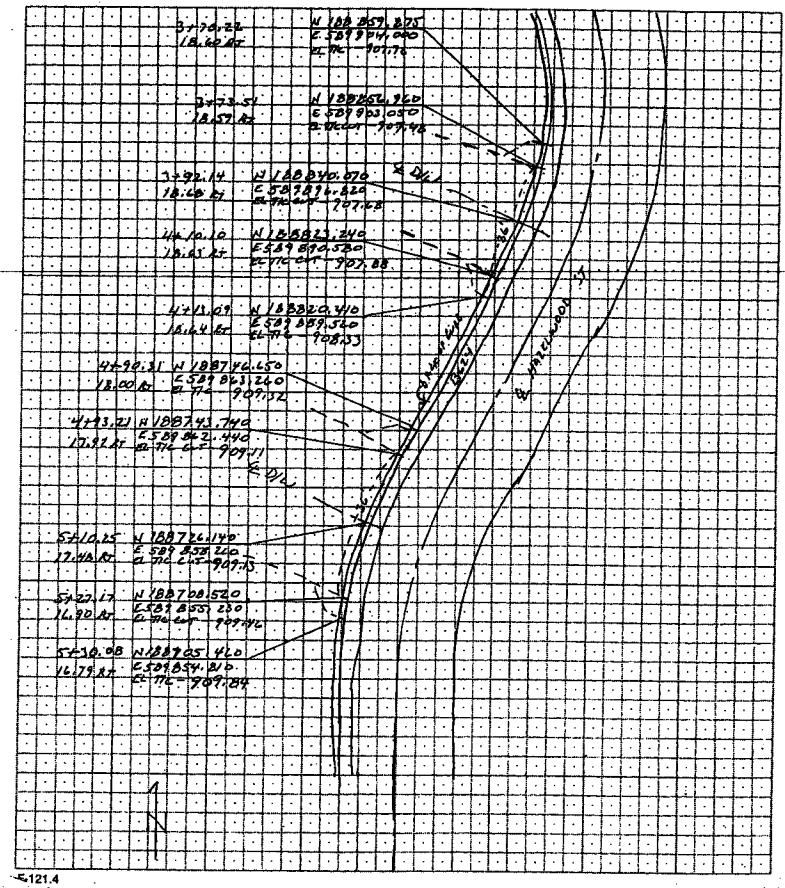
CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
23
99

URS
 JOB Co. Rd. D SHEET NO. 1 of 1
 MADE BY N. DAWLIN DATE 11/9/05 JOB NO. 31807400.0005
 CHECKED BY _____ DATE _____ SEC SHT. NO. _____
 CALCULATIONS FOR MAPLE RIDGE ART DRIVEWAY "1675 Co. Rd. D"



URS
 JOB Co. Rd. D SHEET NO. 1 of 1
 MADE BY N. DAWLIN DATE 5/4/06 JOB NO. 31807400.0005
 CHECKED BY _____ DATE _____ SEC SHT. NO. _____
 CALCULATIONS FOR DRIVEWAY AS-BUILT LOCATIONS - WEST SIDE HARMWOOD ST



28-260

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	43932-007	1	JCD	01/09/07	AS-BUILT
	DRAWN BY: MRK				
	DESIGN BY: MRK				
	CHKD. BY: GSB				
	DWG. NAME: 007-DT03				
	DATE:				



Thresher Square
 700 Third Street South
 Minneapolis, MN 55416
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 612.370.1378 Fax

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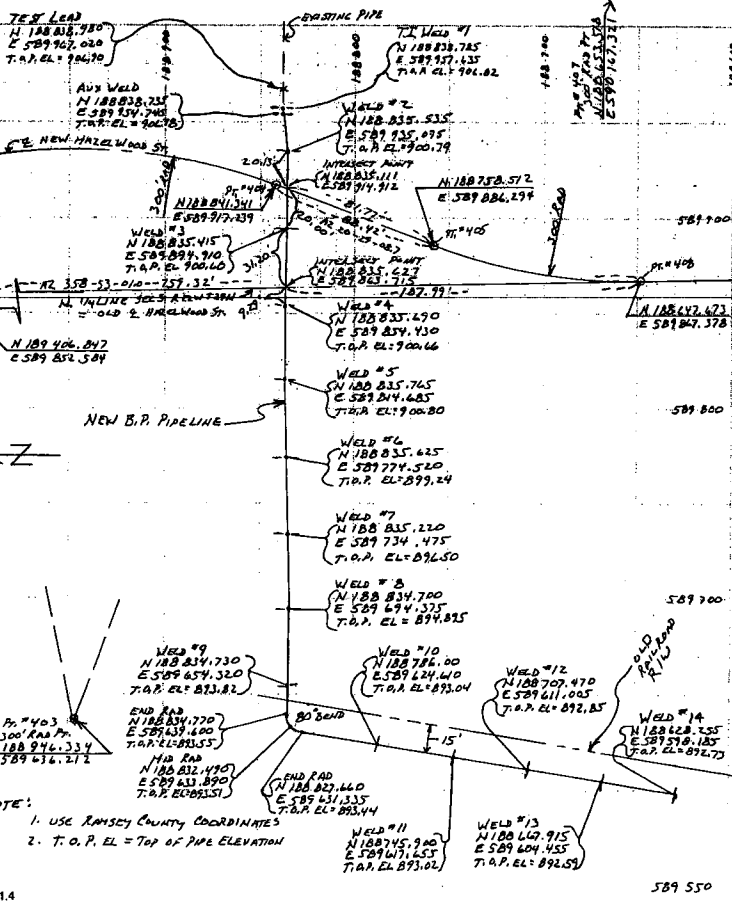
 GREGORY S. BROWN
 DATE: 4/2/2006 MN LIC. NO. 22814

CITY OF MAPLEWOOD
COUNTY ROAD D
 DRIVEWAY AS-BUILT

CITY PROJECT	02-07
COUNTY PROJECT	
S.P.	
S.A.P.	

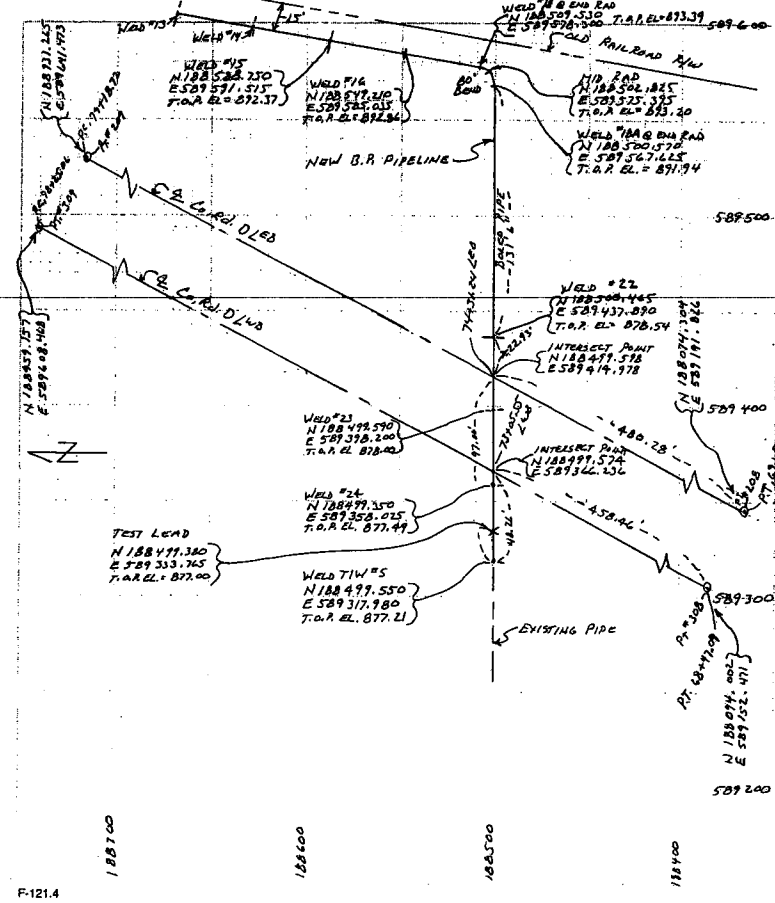
SHEET NO.
23A
 99

JOB Co. Rd D SHEET NO. 1 of 2
 MADE BY M.F. DAHLM DATE 11/11/05 JOB NO. 1107400.0805
 CHECKED BY _____ DATE _____ SEC SHT. NO. _____
 CALCULATIONS FOR B.P. PIPELINE AS-BUILT LOCATION



F-121.4

JOB Co. Rd D SHEET NO. 2 of 2
 MADE BY M.F. DAHLM DATE 11/11/05 JOB NO. 1107400.0805
 CHECKED BY _____ DATE _____ SEC SHT. NO. _____
 CALCULATIONS FOR B.P. PIPELINE AS-BUILT LOCATION



F-121.4

28-260

XREF DRAWINGS	DESIGN FILE:		REV. NO.	BY	DATE	REVISIONS DESCRIPTION
	43932-007					
	DRAWN BY:	DESIGN BY:	1	JCD	01/09/07	AS-BUILT
	MRK	MRK				
	CHKD. BY:	DWG. NAME:				
	GSB	007-DT04				
	DATE:					



Thresher Square
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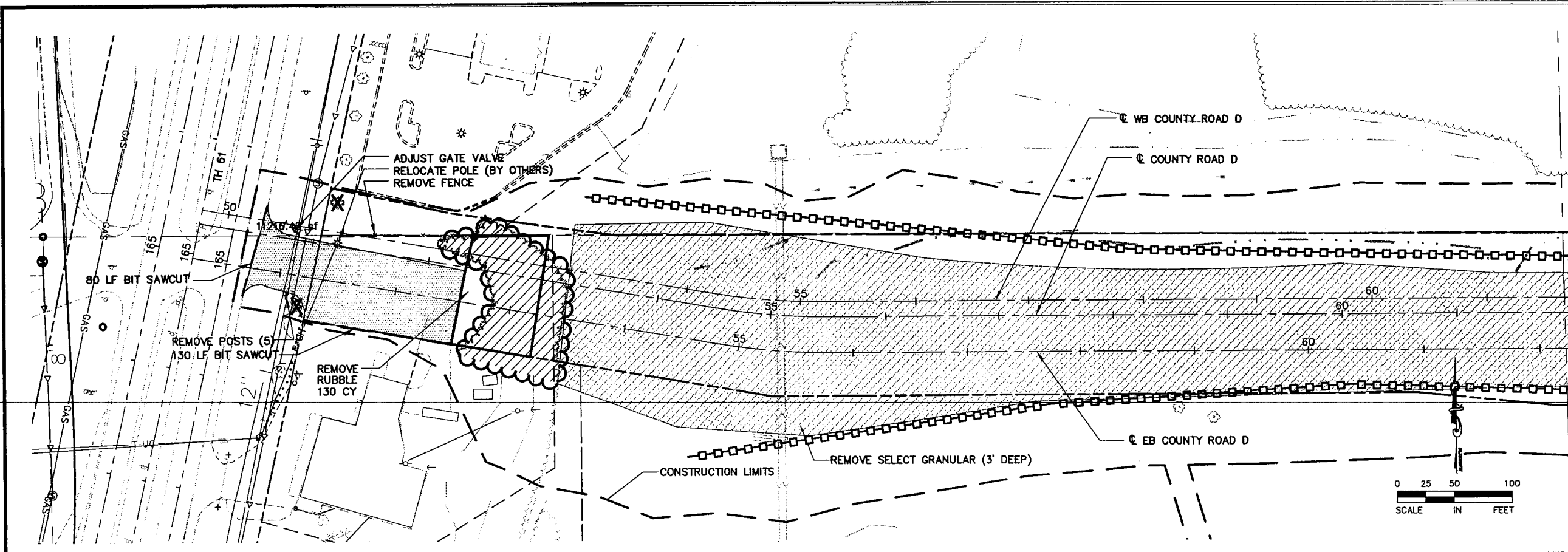
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

 GREGORY S. BROWN
 DATE: 4/2/2006 MN LIC. NO. 22814

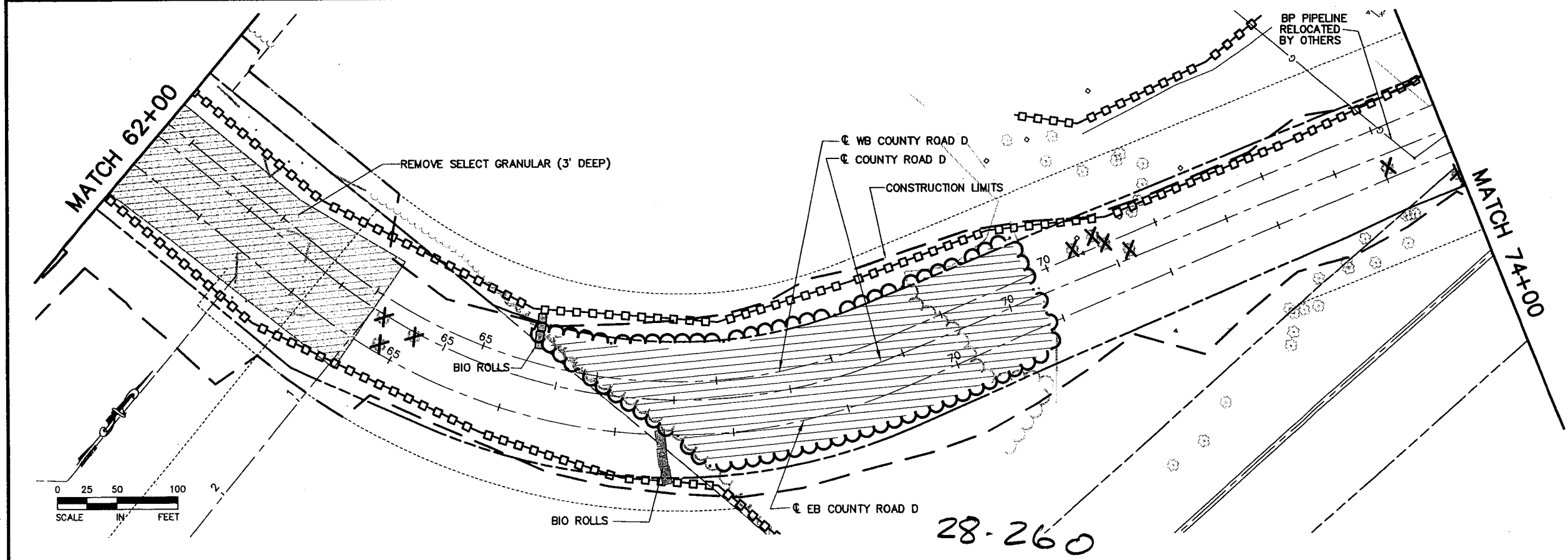
CITY OF MAPLEWOOD
 COUNTY ROAD D
 PIPELINE AS-BUILT

CITY PROJECT 02-07
 COUNTY PROJECT
 S.P.
 S.A.P.

SHEET NO.
 23B
 99



- REMOVALS AND EROSION CONTROL LEGEND:**
- BITUMINOUS PAVEMENT REMOVAL
 - CONCRETE PAVEMENT REMOVAL
 - CONCRETE CURB & GUTTER REMOVAL
 - UTILITY LINE REMOVAL
 - LIMITS OF CONSTRUCTION
 - SILT FENCE
 - SAWCUT LINE
 - CLEAR AND GRUB
 - SALVAGE SIGN



- REMOVAL NOTES:**
1. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING AS DIRECTED AND MARKED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL OTHERWISE PROTECT ALL EXISTING TREES NOT SPECIFICALLY MARKED FOR REMOVAL.
 2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE AS SHOWN AND DIRECTED BY THE ENGINEER IN FIELD.
 3. THE CONTRACTOR SHALL PLACE SILT FENCE AROUND CATCH BASINS AS DIRECTED BY THE ENGINEER TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.
 4. THE CONTRACTOR SHALL CONSTRUCT ROCK CONSTRUCTION ENTRANCES AT POINTS OF EXIT FROM THE WORK AREA ONTO EXISTING BITUMINOUS PAVEMENT AS DIRECTED BY THE ENGINEER.
 5. ALL PRIVATE UTILITIES TO BE RELOCATED BY OTHERS AS REQUIRED.
 6. THE CONTRACTOR SHALL SALVAGE ALL EXISTING SIGNS IN WORK ZONE AS DIRECTED BY THE ENGINEER IN FIELD. SALVAGED SIGNS SHALL BE PROPERLY DISMANTLED AND DELIVERED TO THE CITY SHOP WITHIN 24 HRS. OF THEIR REMOVAL.
 7. ALL MAILBOXES TO BE MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER IN FIELD. REMOVAL AND TEMPORARY MAILBOXES INCIDENTAL TO "RELOCATE MAILBOX" PAY ITEM 2412.602 F & I MAILBOX & SUPPORT.
 8. REFER TO UTILITY PLANS AND TABS FOR MANHOLE AND HYDRANT ADJUSTMENTS.
 9. THE CONTRACTOR SHALL REMOVE APRONS ON CULVERT PIPE AND STORM SEWER PIPE, INDICATED FOR REMOVAL.

DT DATE: Jul 06, 2005 5:00pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-plr-sht\007-RM01.dwg

XREF DRAWINGS	
HAUL-RD	composit contour
007-PUT	
007-con-lim	
007-ESM	
007-PCO	
007-FEN	
007-ALI	
007-eut	

DESIGN FILE: 43932-007	
DRAWN BY: MRH-PMJ	DESIGN BY: MRH
CHKD. BY: NCL	DWG. NAME: RM01
DATE:	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
2	JCD	7/6/05	REVISED CONSTRUCTION LIMITS
3	JCD	1/9/07	AS-BUILT



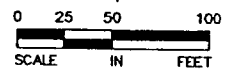
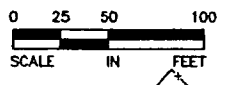
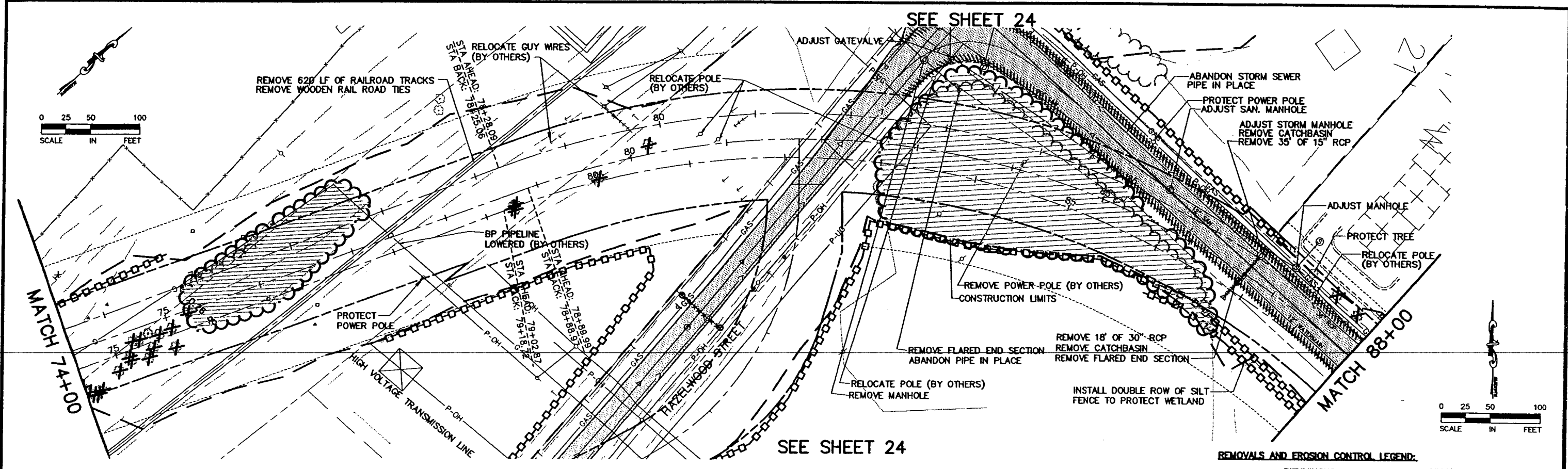
Treacher Square
 700 Third Street South
 Minneapolis, MN 55416
 612.370.0700 Tel
 612.370.1376 Fax

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Karl P. Keel
 KARL P. KEEL

CITY OF MAPLEWOOD
 COUNTY ROAD D
 EXISTING CONDITIONS, REMOVALS AND EROSION CONTROL

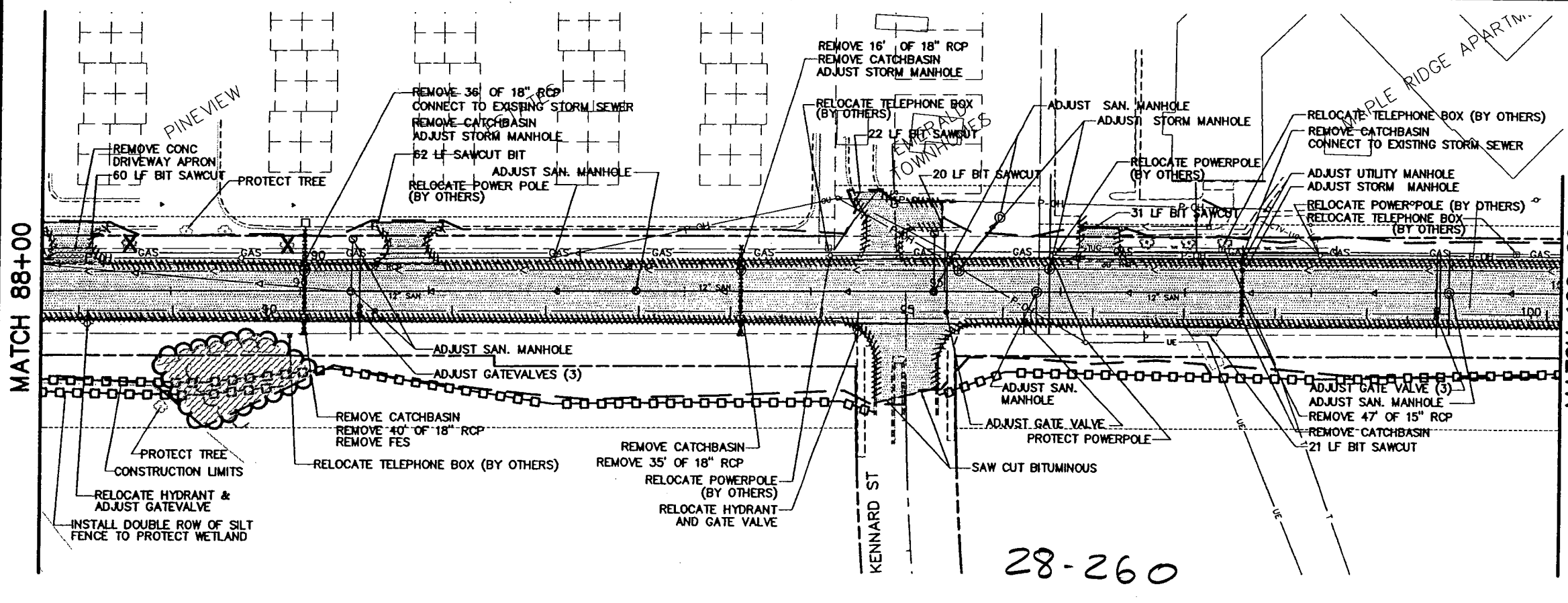
CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		24
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99



- REMOVALS AND EROSION CONTROL LEGEND:**
- BITUMINOUS PAVEMENT REMOVAL
 - LIMITS OF CONSTRUCTION
 - CONCRETE PAVEMENT REMOVAL
 - SILT FENCE
 - CONCRETE CURB & GUTTER REMOVAL
 - SAWCUT LINE
 - CLEAR AND GRUB
 - SALVAGE SIGN
 - UTILITY LINE REMOVAL

- REMOVAL NOTES:**
1. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING AS DIRECTED AND MARKED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL OTHERWISE PROTECT ALL EXISTING TREES NOT SPECIFICALLY MARKED FOR REMOVAL.
 2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE AS SHOWN AND DIRECTED BY THE ENGINEER IN FIELD.
 3. THE CONTRACTOR SHALL PLACE SILT FENCE AROUND CATCH BASINS AS DIRECTED BY THE ENGINEER TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.
 4. THE CONTRACTOR SHALL CONSTRUCT ROCK CONSTRUCTION ENTRANCES AT POINTS OF EXIT FROM THE WORK AREA ONTO EXISTING BITUMINOUS PAVEMENT AS DIRECTED BY THE ENGINEER.
 5. ALL PRIVATE UTILITIES TO BE RELOCATED BY OTHERS AS REQUIRED.
 6. THE CONTRACTOR SHALL SALVAGE ALL EXISTING SIGNS IN WORK ZONE AS DIRECTED BY THE ENGINEER IN FIELD. SALVAGED SIGNS SHALL BE PROPERLY DISMANTLED AND DELIVERED TO THE CITY SHOP WITHIN 24 HRS. OF THEIR REMOVAL.
 7. ALL MAILBOXES TO BE MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER IN FIELD. REMOVAL AND TEMPORARY MAILBOXES INCIDENTAL TO "RELOCATE MAILBOX" PAY ITEM 2412.602 F & I MAILBOX & SUPPORT.
 8. REFER TO UTILITY PLANS AND TABS FOR MANHOLE AND HYDRANT ADJUSTMENTS.
 9. THE CONTRACTOR SHALL REMOVE APRONS ON CULVERT PIPE AND STORM SEWER PIPE INDICATED FOR REMOVAL.



28-260

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\9392007\plan-sh\007-pln-sh\007-RM02.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY:	DESIGN BY:	MRH-PMJ	2	JCD	1/9/07	AS-BUILT
CHKD. BY:	DWG. NAME:	NCL				
DATE:		FEBRUARY 27, 2004				



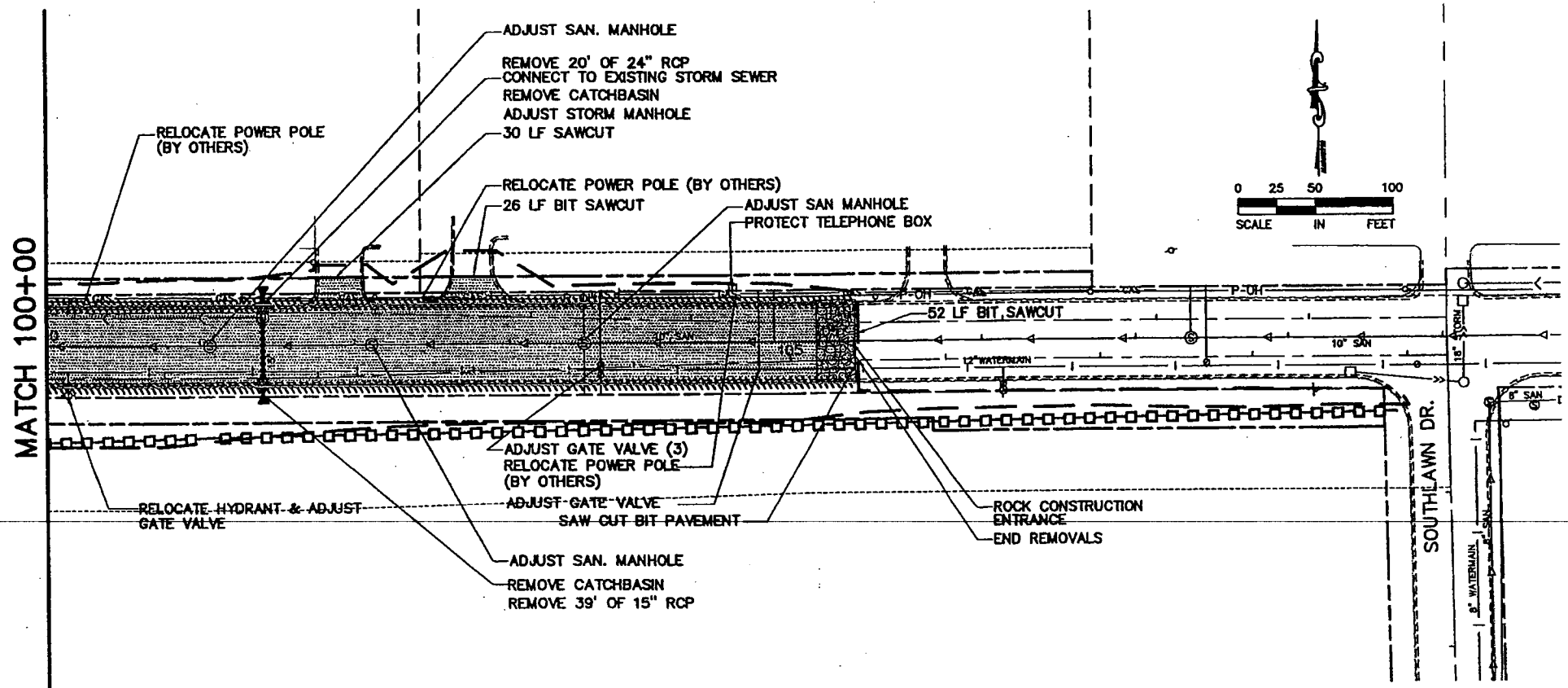
Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

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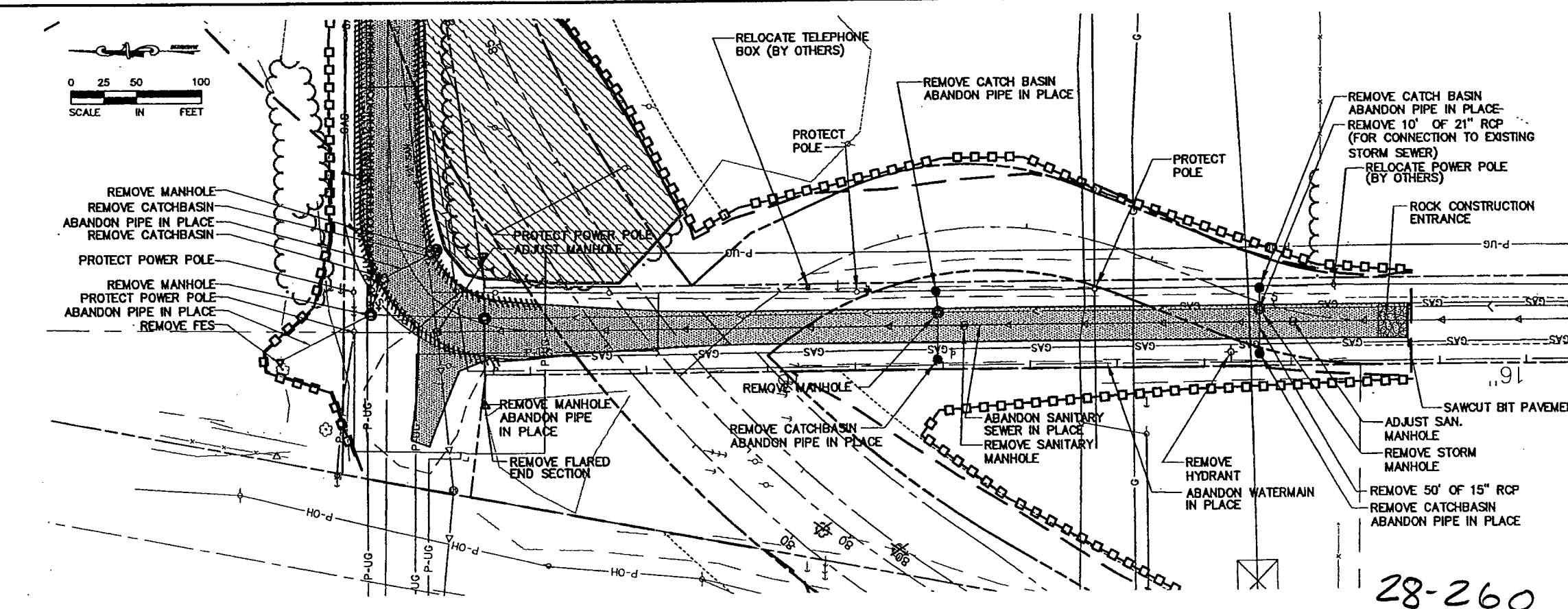
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
EXISTING CONDITIONS, REMOVALS AND EROSION CONTROL
STATION 74+00 TO STATION 100+00

CITY PROJECT	02-07	SHEET NO.	25
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		



- REMOVALS AND EROSION CONTROL LEGEND:**
- BITUMINOUS PAVEMENT REMOVAL
 - CONCRETE PAVEMENT REMOVAL
 - CONCRETE CURB & GUTTER REMOVAL
 - UTILITY LINE REMOVAL
 - LIMITS OF CONSTRUCTION
 - SILT FENCE
 - SAWCUT LINE
 - TREE REMOVAL
 - CLEAR AND GRUB
 - SALVAGE SIGN



- REMOVAL NOTES:**
1. THE CONTRACTOR SHALL PERFORM ALL CLEARING AND GRUBBING AS DIRECTED AND MARKED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR SHALL OTHERWISE PROTECT ALL EXISTING TREES NOT SPECIFICALLY MARKED FOR REMOVAL.
 2. THE CONTRACTOR SHALL INSTALL AND MAINTAIN SILT FENCE AS SHOWN AND DIRECTED BY THE ENGINEER IN FIELD.
 3. THE CONTRACTOR SHALL PLACE SILT FENCE AROUND CATCH BASINS AS DIRECTED BY THE ENGINEER TO PREVENT SEDIMENT FROM ENTERING THE STORM SEWER.
 4. THE CONTRACTOR SHALL CONSTRUCT ROCK CONSTRUCTION ENTRANCES AT POINTS OF EXIT FROM THE WORK AREA ONTO EXISTING BITUMINOUS PAVEMENT AS DIRECTED BY THE ENGINEER.
 5. ALL PRIVATE UTILITIES TO BE RELOCATED BY OTHERS AS REQUIRED.
 6. THE CONTRACTOR SHALL SALVAGE ALL EXISTING SIGNS IN WORK ZONE AS DIRECTED BY THE ENGINEER IN FIELD. SALVAGED SIGNS SHALL BE PROPERLY DISMANTLED AND DELIVERED TO THE COUNTY SHOP WITHIN 24 HRS. OF THEIR REMOVAL.
 7. ALL MAILBOXES TO BE MAINTAINED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER IN FIELD. REMOVAL AND TEMPORARY MAILBOXES INCIDENTAL TO "RELOCATE MAILBOX" PAY ITEM 2412.602 F & I MAILBOX & SUPPORT.
 8. REFER TO UTILITY PLANS AND TABS FOR MANHOLE AND HYDRANT ADJUSTMENTS.
 9. THE CONTRACTOR SHALL REMOVE APRONS ON CULVERT PIPE AND STORM SEWER PIPE, INDICATED FOR REMOVAL.

28-260

PLOT DATE: May 10, 2004 11:40am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-ht\007-RM03.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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007-ESM	007-con-ilm		2	UG	1/19/07	AS-BUILT
007-PUT	007-PCO					
007-FEN	007-AU					
007-aut	007-esu-cty-d					
007-ETD						
DRAWN BY: MRH-PMJ		DESIGN BY: MRH				
CHKD. BY: NCL		DWG. NAME: RM03				
DATE: FEBRUARY 27, 2004						



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700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1376 Fax

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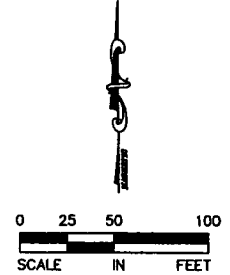
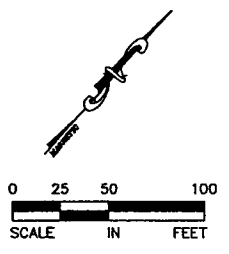
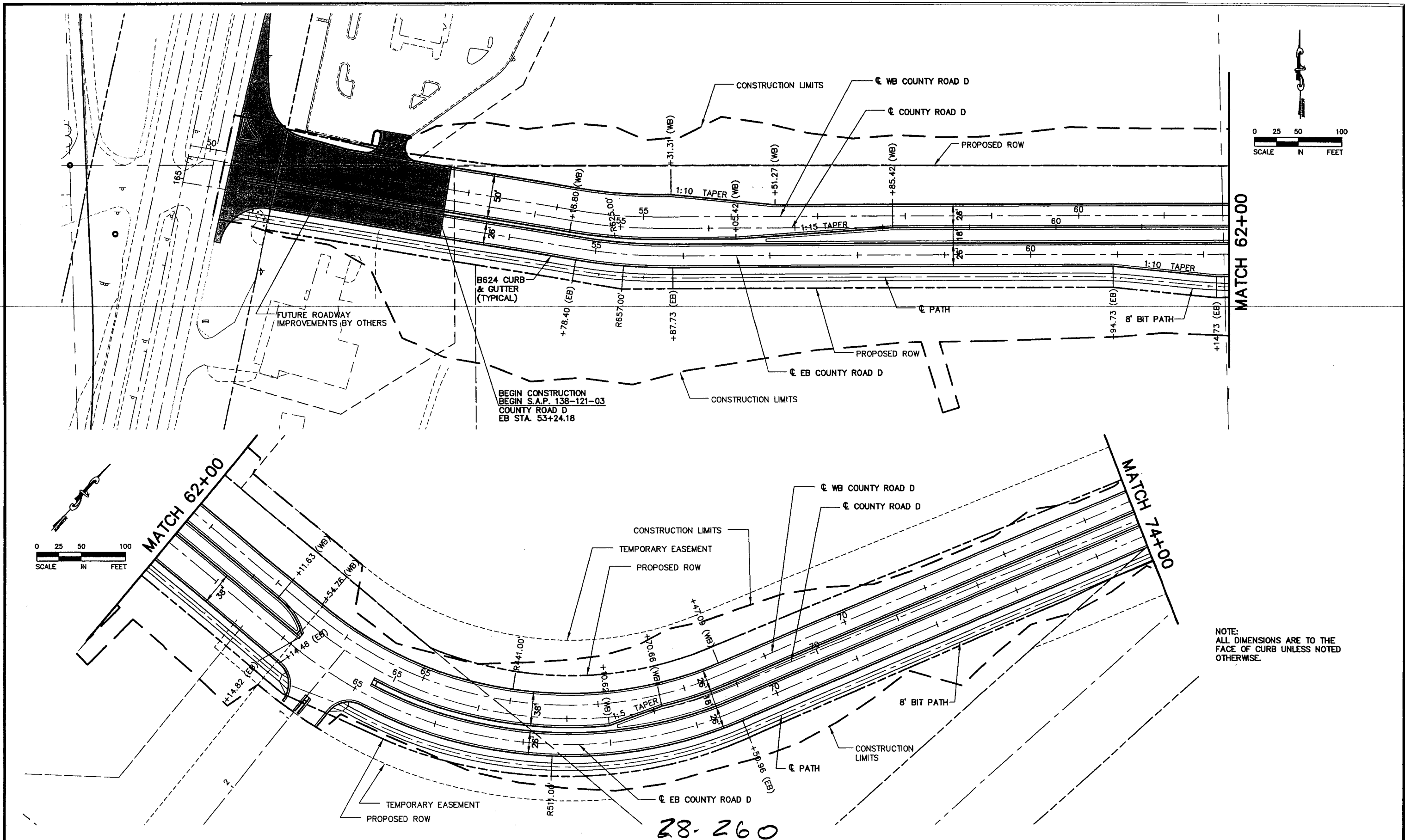
Nick C. Landwer
NICK C. LANDWER
DATE: 4/15/2004 MN LIC. NO. 40953

CITY OF MAPLEWOOD
COUNTY ROAD D

EXISTING CONDITIONS, REMOVALS AND EROSION CONTROL
COUNTY ROAD D - STA. 100+00 TO STA. 104+88.06
HAZELWOOD STREET - STA. 0+00 TO STA. 5+85.33

CITY PROJECT	02-07	SHEET NO.	26
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		99

PLOT DATE: Jul 06, 2005 5:01pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh\007-PN01.dwg



XREF DRAWINGS	
007-con-1lm	
007-HTCH PCO	
007-ALJ	
007-eut	
007-ESM	
007-PCO	
007-ESU-CTY-D	
007-FUT	
007-ETO	
22-3444	

DESIGN FILE: 43932-007	DRAWN BY: JCD	DESIGN BY: JCD	CHKD. BY: NCL	DWG. NAME: PN01
DATE:				

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	4/21/05	REVISED PER CHANGE ORDER #13.
2	JCD	7/6/05	REVISED CONSTRUCTION LIMITS
3	NCL	1/1/07	AS-BUILT



Thresher Square
 700 Third Street South
 Minneapolis, MN 55416
 612.370.0700 Tel
 612.370.1378 Fax

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Karl P. Keel
 KARL P. KEEL

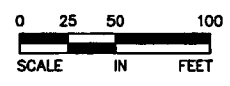
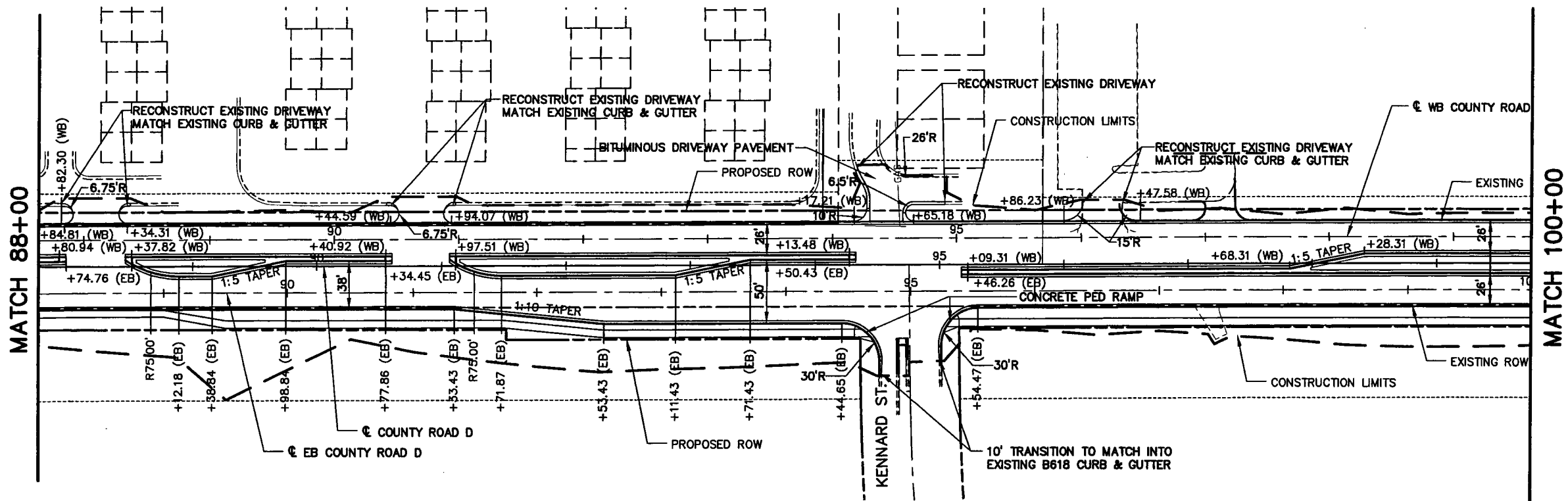
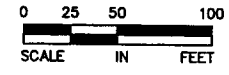
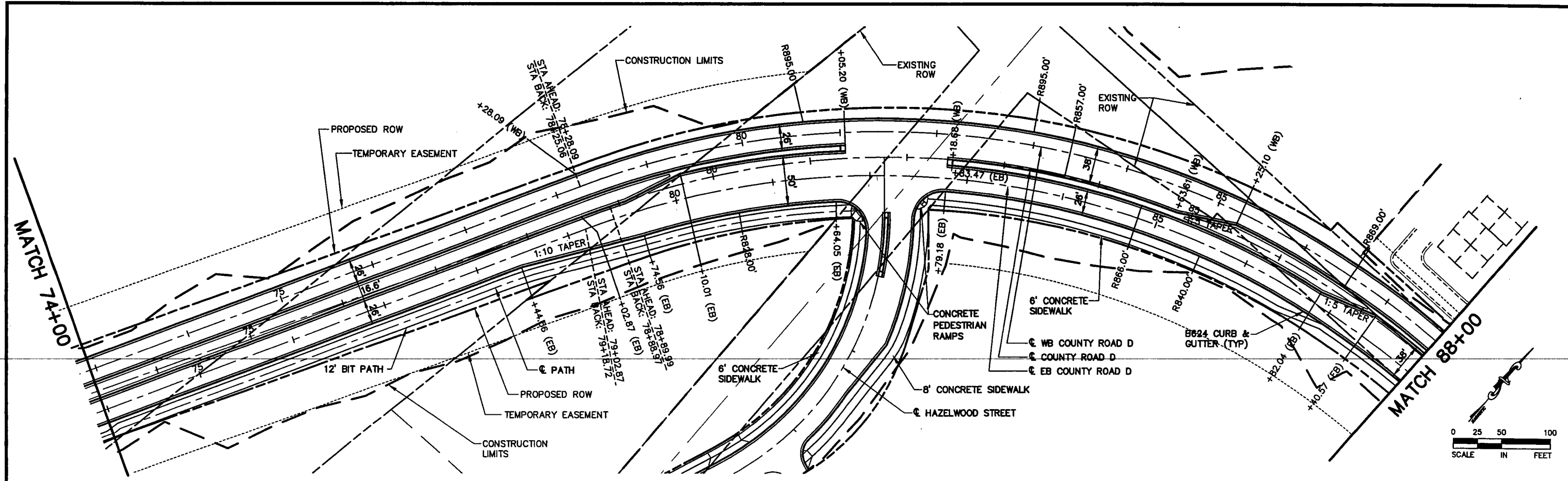
CITY OF MAPLEWOOD
 COUNTY ROAD D

CONSTRUCTION PLAN
 COUNTY ROAD D

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.	27
	99

PLOT DATE: Nov 03, 2005 11:10am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-plr-stk\007-PN02.dwg



NOTE:
ALL DIMENSIONS ARE TO THE
FACE OF CURB UNLESS NOTED
OTHERWISE.

28-260

XREF DRAWINGS	
007-con-lim	
007-EUT	
007-HTCH PCO	
007-PCO	
007-ESM	
007-mplwd-flat	
007-ESU-CTY-D	
007-AUJ	
007-PUT	
007-ETO	
22x34hdr	

DESIGN FILE: 43932-007	CHKD. BY: NCL	DATE: FEBRUARY 27, 2004
DRAWN BY: JCD	DWG. NAME: PN02	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
2	SAW	11/04/05	REVISED PATH WIDTH STA. 74+04.5 TO STA. 81+85
3	JCD	01/09/07	AS-BUILT



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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

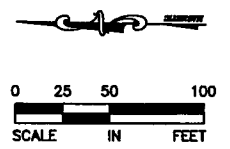
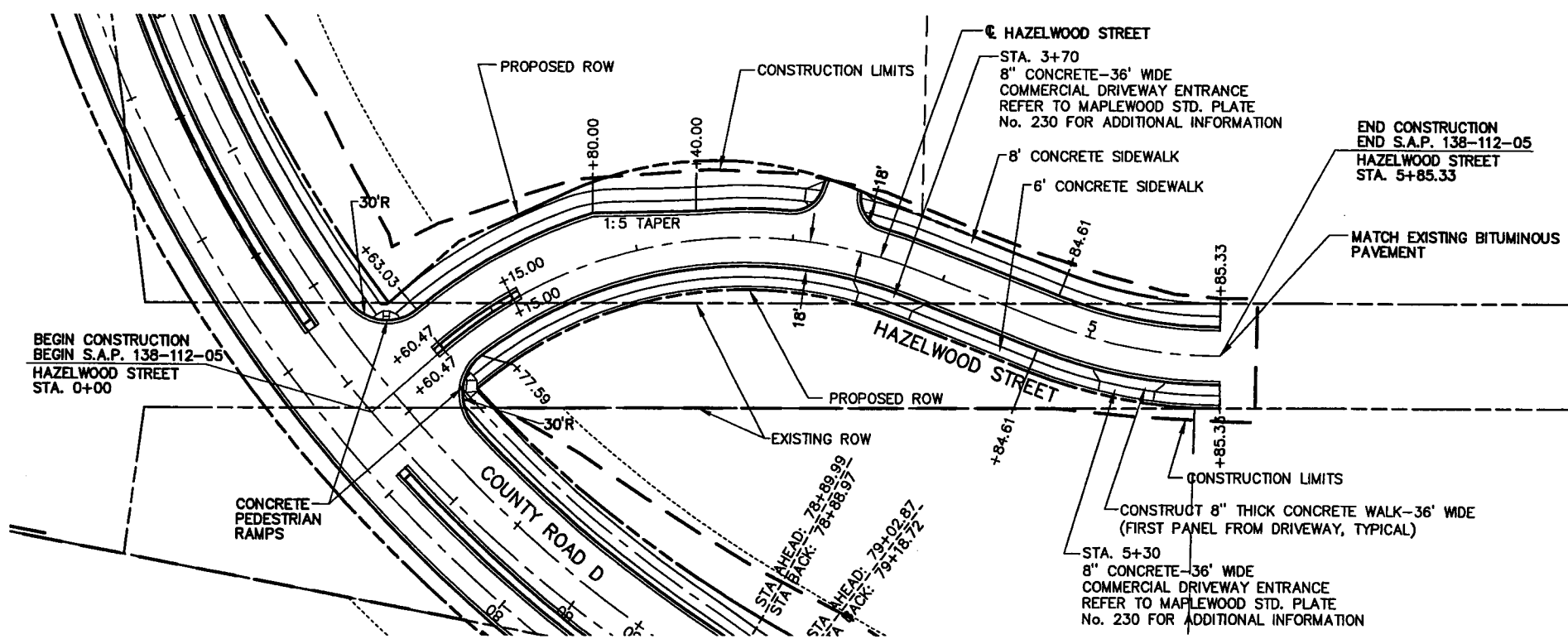
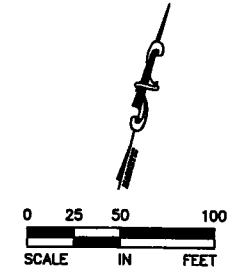
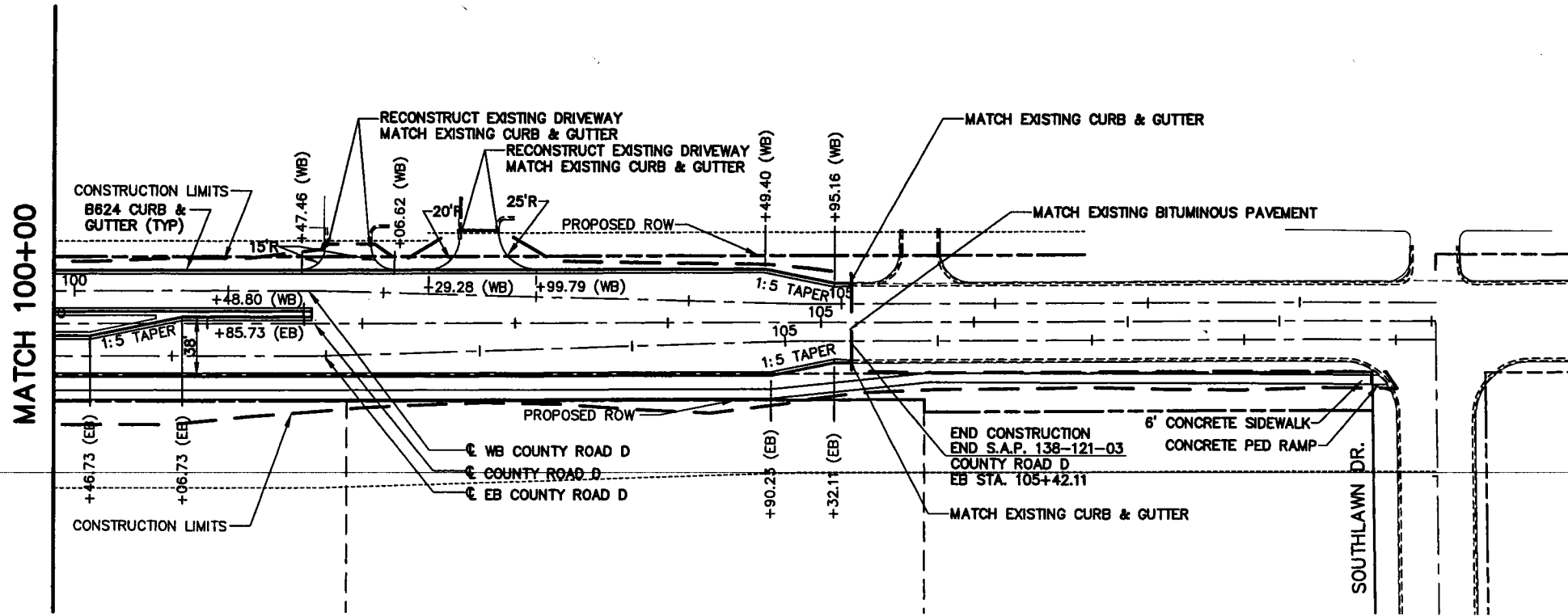
CITY OF MAPLEWOOD
COUNTY ROAD D

CONSTRUCTION PLAN
COUNTY ROAD D
STATION 74+00 TO STATION 100+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.	28
	99

PLOT DATE: Nov 03, 2005 11:01am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\007-PNO3.dwg



NOTE: ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-llm	007-HTCH PCD	43932-007	1	PMJ	05/27/04	REVISED ROADWAY WIDTH STA 101+93 - 105+42
007-mpjwd-plot	007-ESU-CITY-D		2	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
007-PCO	007-ESM		3	SAW	10-03-05	ADDED CONCRETE DW ENTRANCES ON HAZELWOOD ST.
007-ALI	007-ETO		4	SAW	11/04/05	REVISED PATH WIDTH STA. 74+04.5 TO STA. 81+85
007-ETO	2x34bdr		5	JCD	01/09/07	AS-BUILT
DRAWN BY: JCD		DESIGN BY: JCD				
CHKD. BY: NCL		DWG. NAME: PNO3				
DATE: FEBRUARY 27, 2004						



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700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1376 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

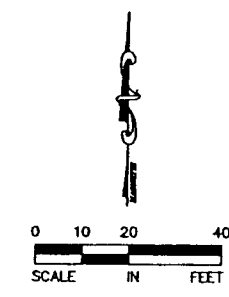
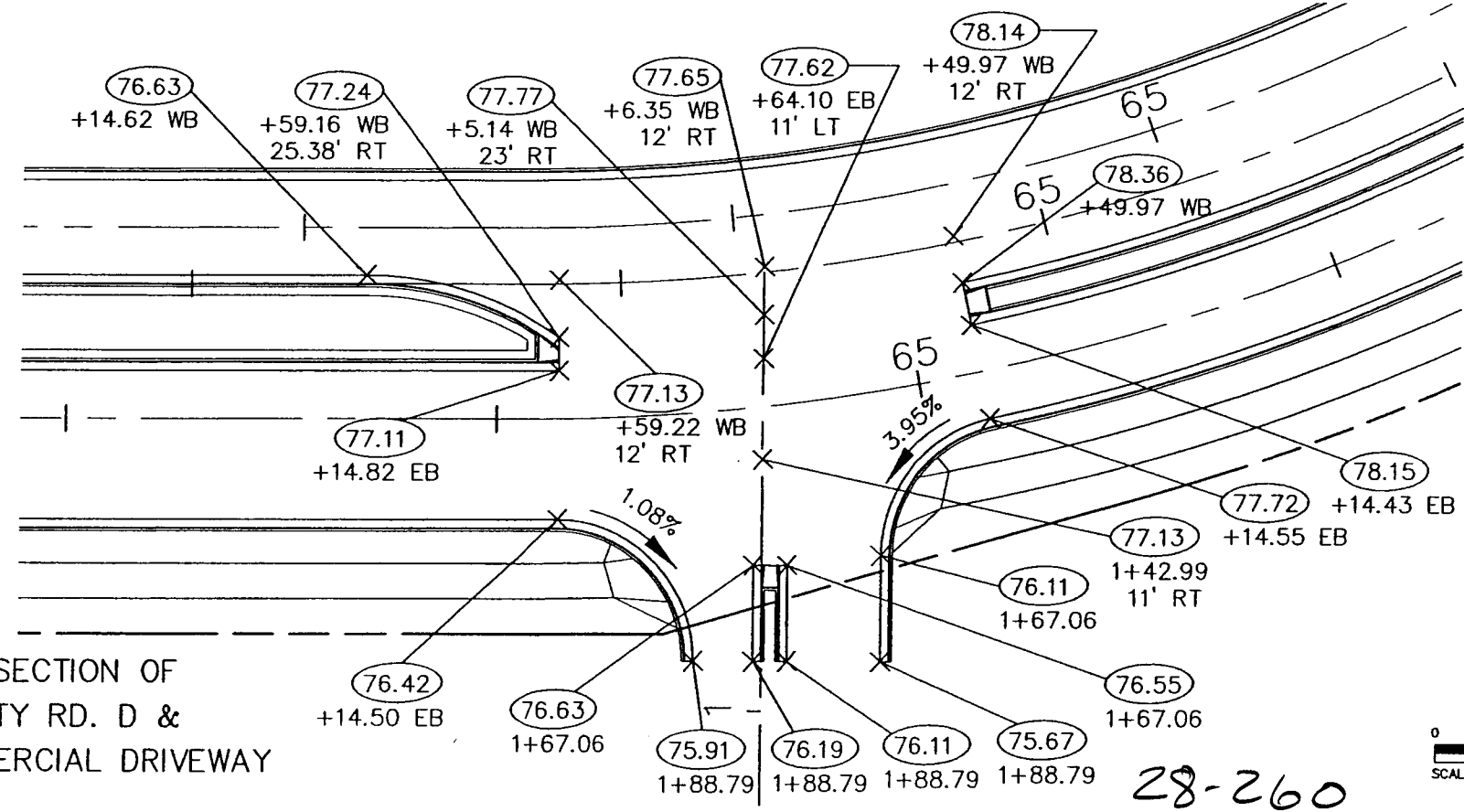
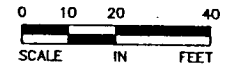
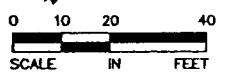
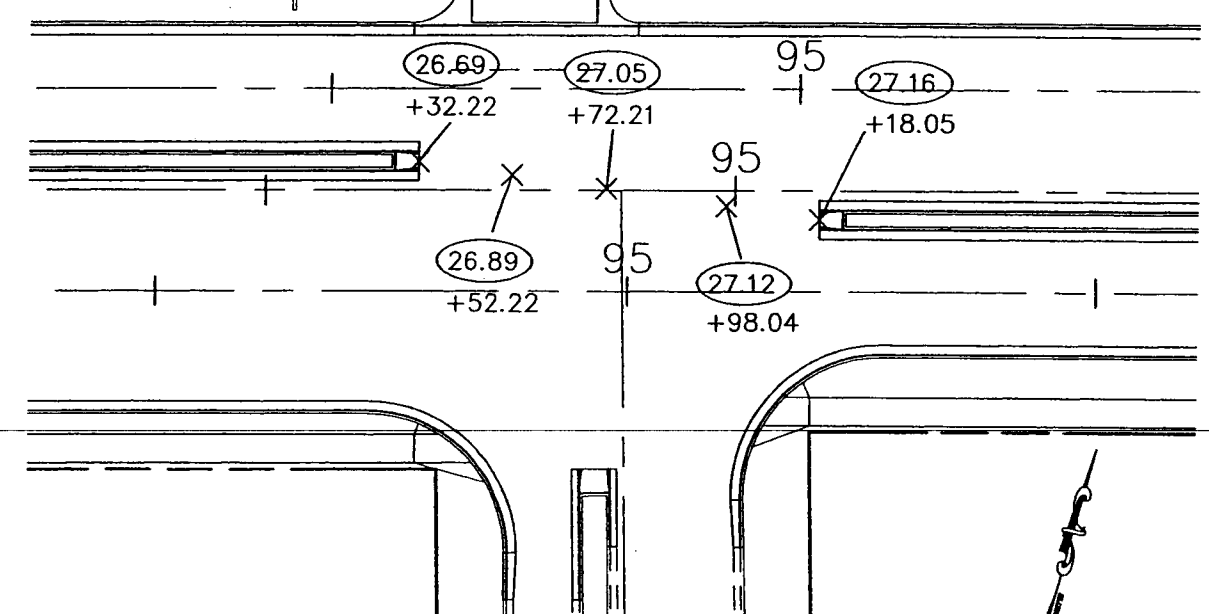
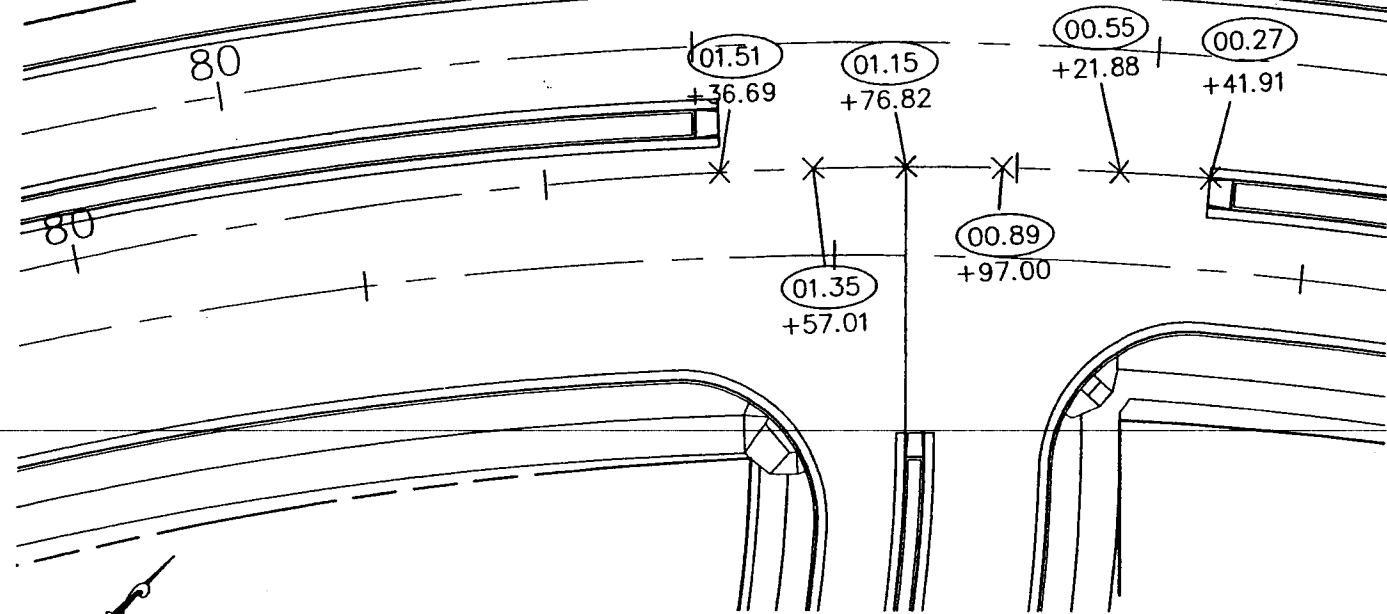
CONSTRUCTION PLAN
COUNTY ROAD D - STA. 100+00 TO STA. 104+88.06
HAZELWOOD STREET - STA. 0+00 TO STA. 5+85.33

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
29
99

INTERSECTION OF
COUNTY RD. D &
HAZELWOOD STREET

INTERSECTION OF
COUNTY RD. D &
KENNARD STREET



NOTE:
ALL DIMENSIONS ARE TO THE
FACE OF CURB UNLESS NOTED
OTHERWISE.

73.82
+36.69 PROPOSED FINISHED GRADE
AND STATION
(ADD 900 FEET TO ELEV.)

28-260

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-pin-sht\007-PNO4.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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007-PCO	007-ESM		2	JCO	1/9/07	As-BUILT
007-ESU-CTY-D	007-ALJ					
007-PUT	007-ETO					
2x34bdr						



Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

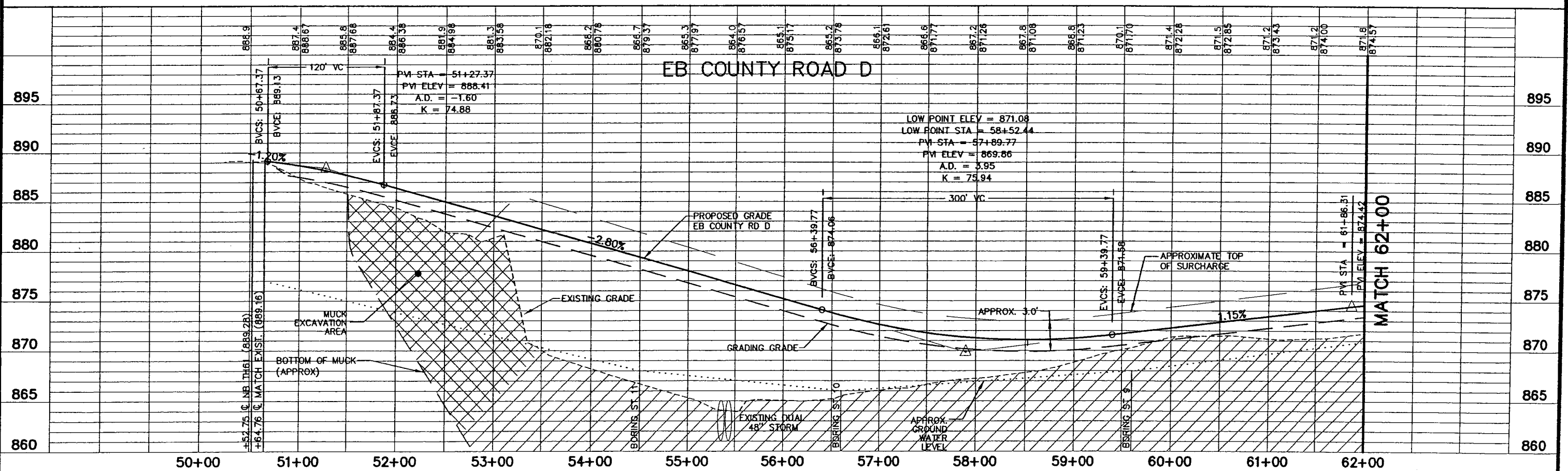
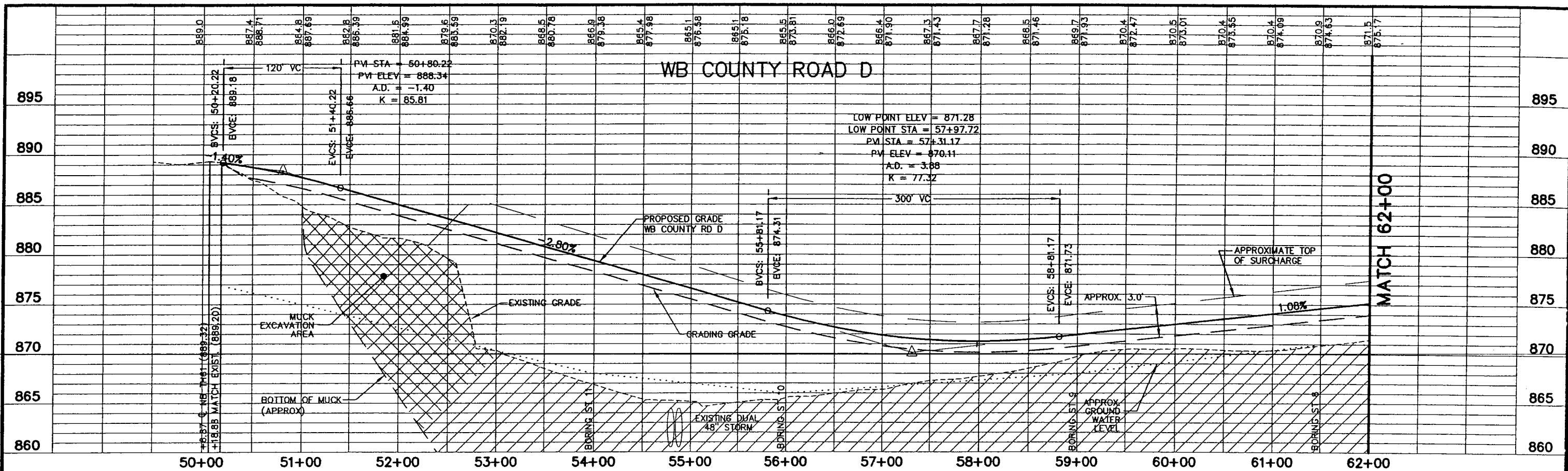
CITY OF MAPLEWOOD
COUNTY ROAD D

INTERSECTION DETAILS
COUNTY ROAD D / HAZELWOOD STREET INTERSECTION
COUNTY ROAD D / KENNARD STREET INTERSECTION

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		30
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-pln-sht\007-PF01.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	5/27/04	REVISED PROFILE STA 50+67 - 73+05
2	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
3	ICB	1/9/07	AS-BUILT

DESIGN FILE: 43932-007	DRAWN BY: NCL	DESIGN BY: NCL
CHECKED BY: NCL	DWG. NAME: PF01	DATE: FEBRUARY 27, 2004

URS
28-260

Thrasher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

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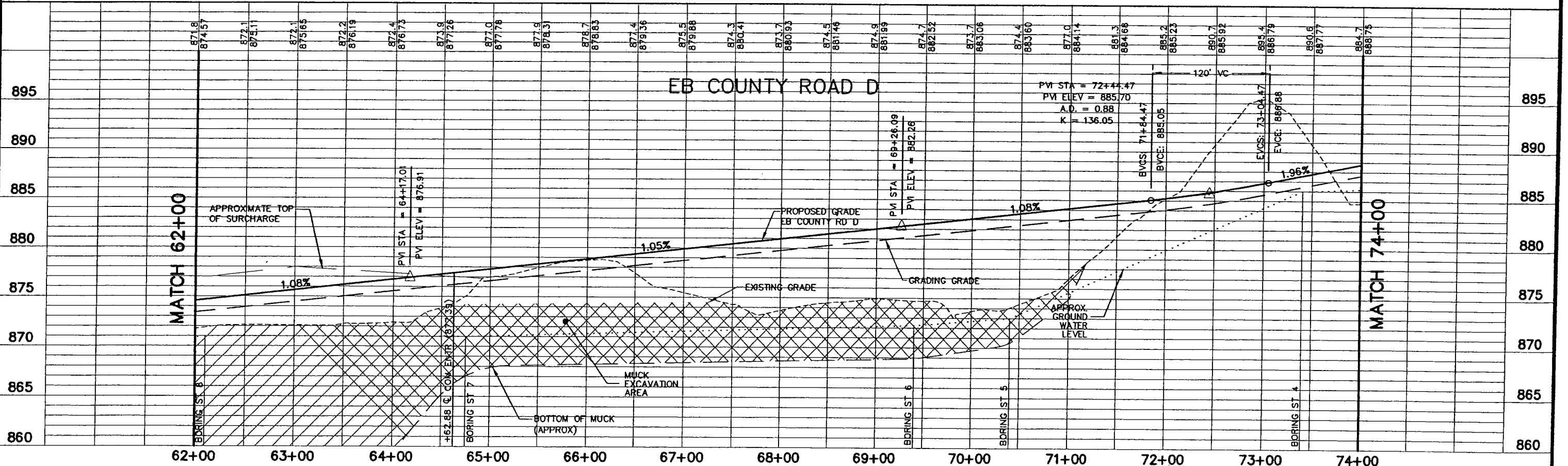
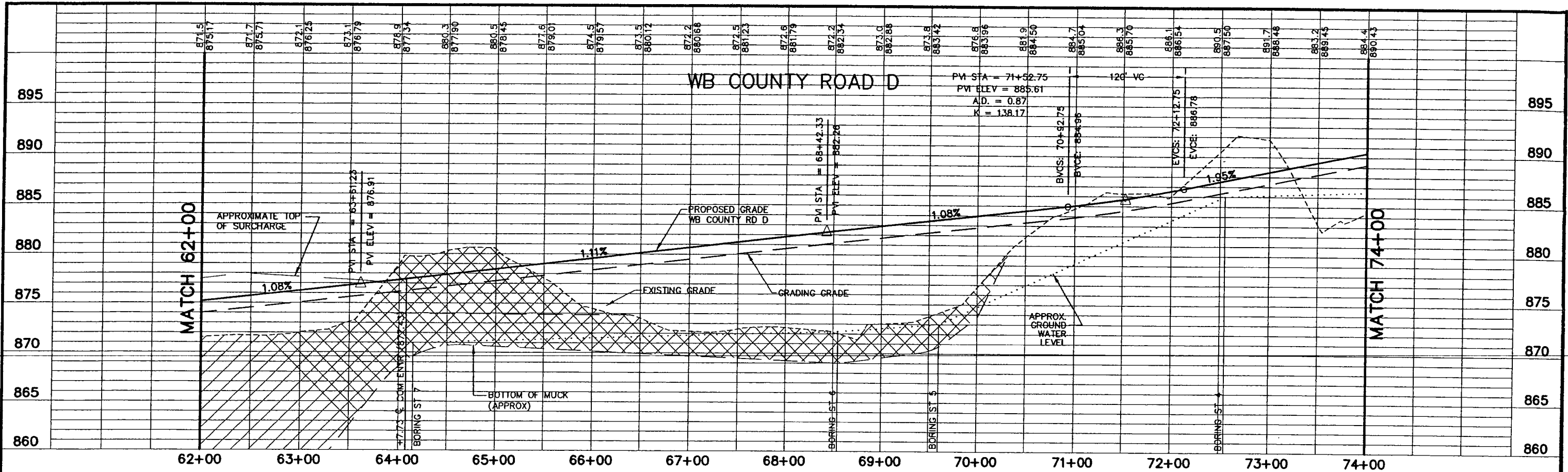
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19661

CITY OF MAPLEWOOD
COUNTY ROAD D

STREET PROFILES
EB AND WB COUNTY ROAD D
STATION 50+00 TO STATION 62+00

CITY PROJECT	02-07	SHEET NO.	31
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		99

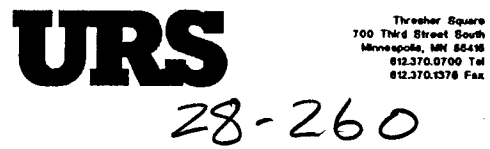
PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-shd\007-pln-shd\007-PF02.dwg



REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	05/27/04	REVISED PROFILE STA 50+67 - 73+05
2	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
3	KCD	1/9/07	AS-BUILT

DESIGN FILE: 43932-007	DESIGN BY: NCL
DRAWN BY: PMJ	DWG. NAME: PF02
CHKD. BY: NCL	DATE: FEBRUARY 27, 2004

007-con-ilm	007-prf	007-pco	007-esm	urs-mplwd-fplot	007-esu-cty-d	007-au	007-out	007-put	007-eto	22-34ord
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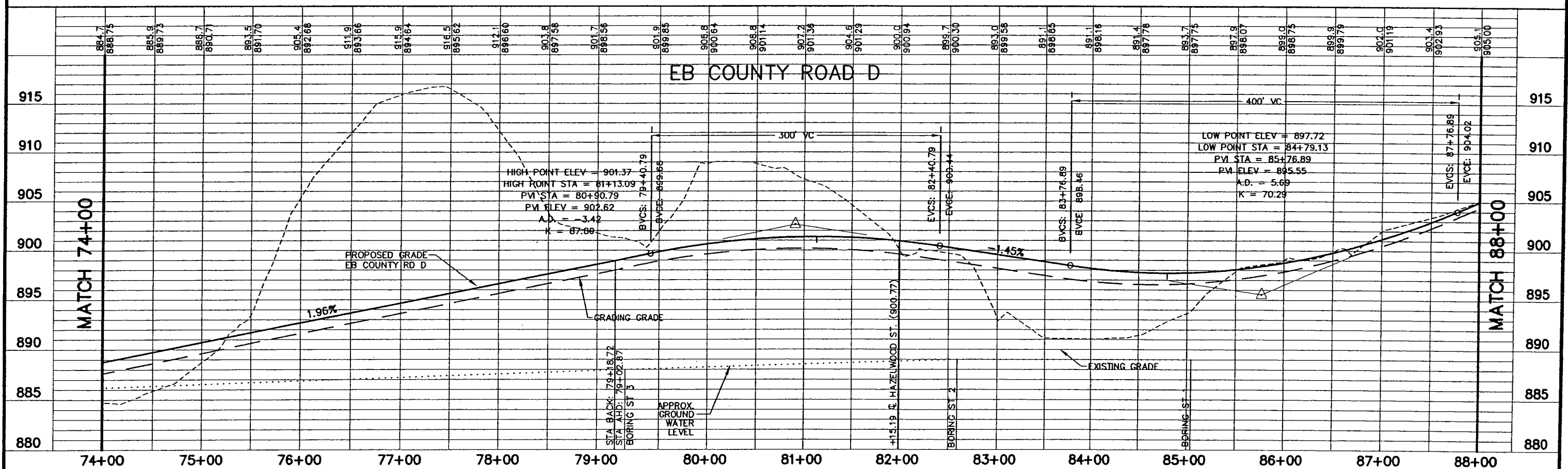
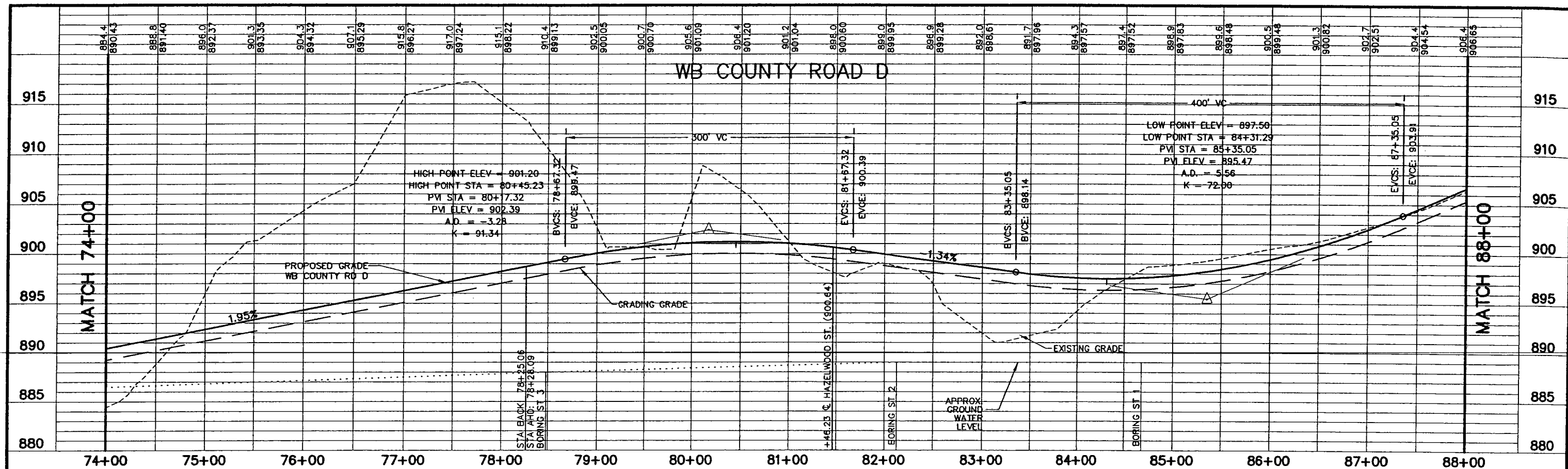
K.P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

**CITY OF MAPLEWOOD
 COUNTY ROAD D**

STREET PROFILES
 EB AND WB COUNTY ROAD D
 STATION 62+00 TO STATION 74+00

CITY PROJECT	02-07	SHEET NO.	32
COUNTY PROJECT	138-121-03		
S.A.P.	138-112-05		99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-pln-sht\007-PF03.dwg



XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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007-PRF			2	ICD	1/9/07	AS-BUILT
007-mp1wd-plot						
007-ESU-CITY-D						
007-PCD						
007-eut						
007-ESM						
007-AU						
007-PUT						
007-ETO						
2x3-board						
DESIGN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	PF03					
DATE:						
FEBRUARY 27, 2004						

URS
28-260

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Minneapolis, MN 55416
612.376.0700 Tel
612.376.1376 Fax

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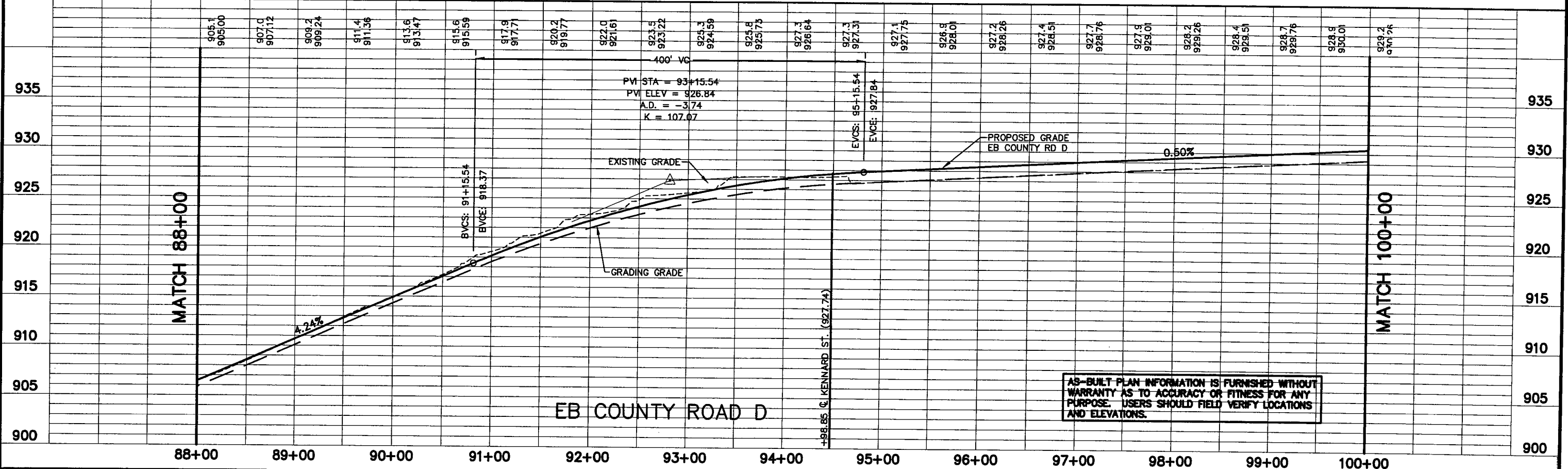
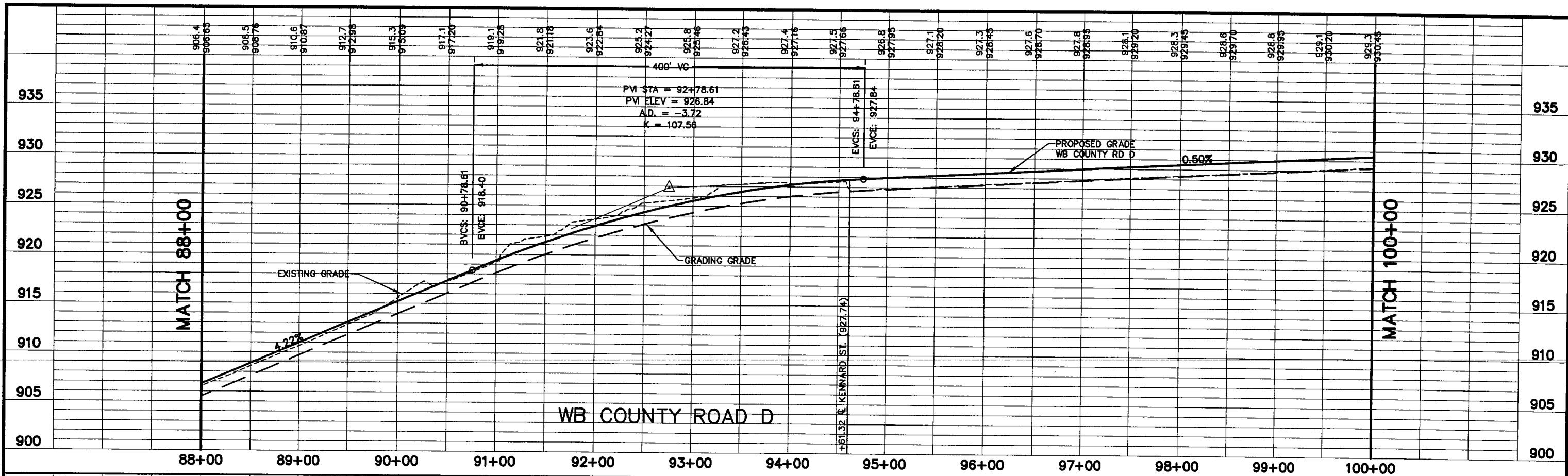
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

STREET PROFILES
EB AND WB COUNTY ROAD D
STATION 74+00 TO STATION 88+00

CITY PROJECT	02-07	SHEET NO.	33
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBULLITS\007-PF04.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BAC	1/11/2005	AS-BUILT

DESIGN FILE: 43932-007	DESIGN BY: NCL
DRAWN BY: 43932-007	DWG. NAME: PF04
CHKD. BY: NCL	DATE: FEBRUARY 27, 2004

DATE: FEBRUARY 27, 2004

URS
28-260

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700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
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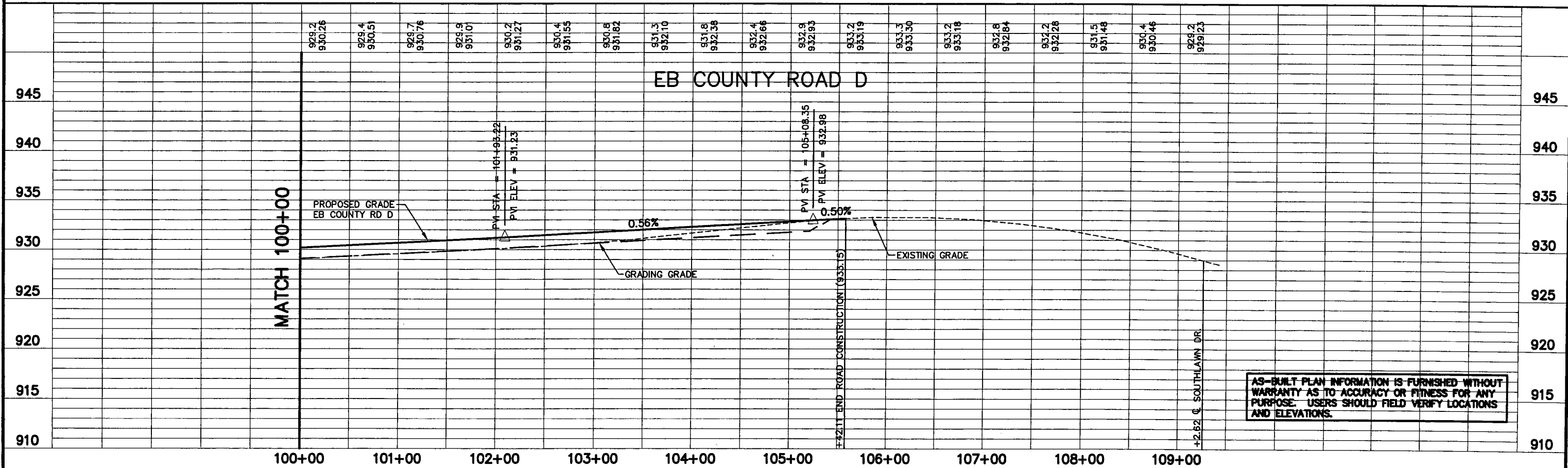
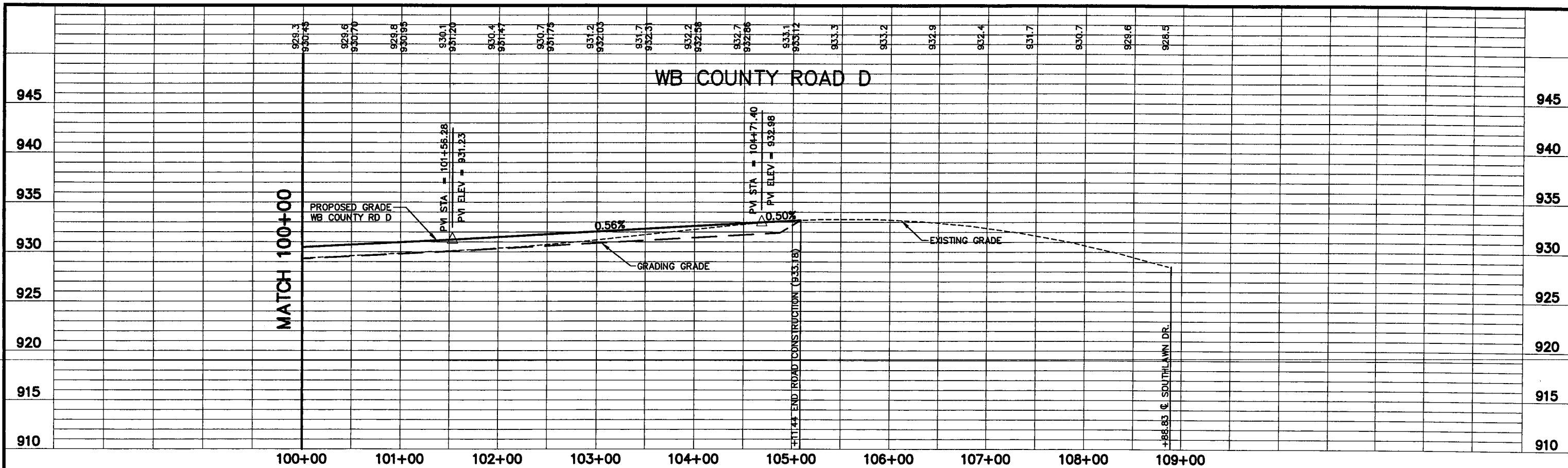
Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

STREET PROFILES
EB AND WB COUNTY ROAD D
STATION 88+00 TO STATION 100+00

CITY PROJECT	02-07	SHEET NO.	34
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-shr\007-ASBUILTS\007-PF05.dwg



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REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BAC	1/11/2005	AS-BUILT

DESIGN FILE: 43932-007	DRAWN BY: 43932-007	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: PF05	DATE: FEBRUARY 27, 2004

URS
28-260

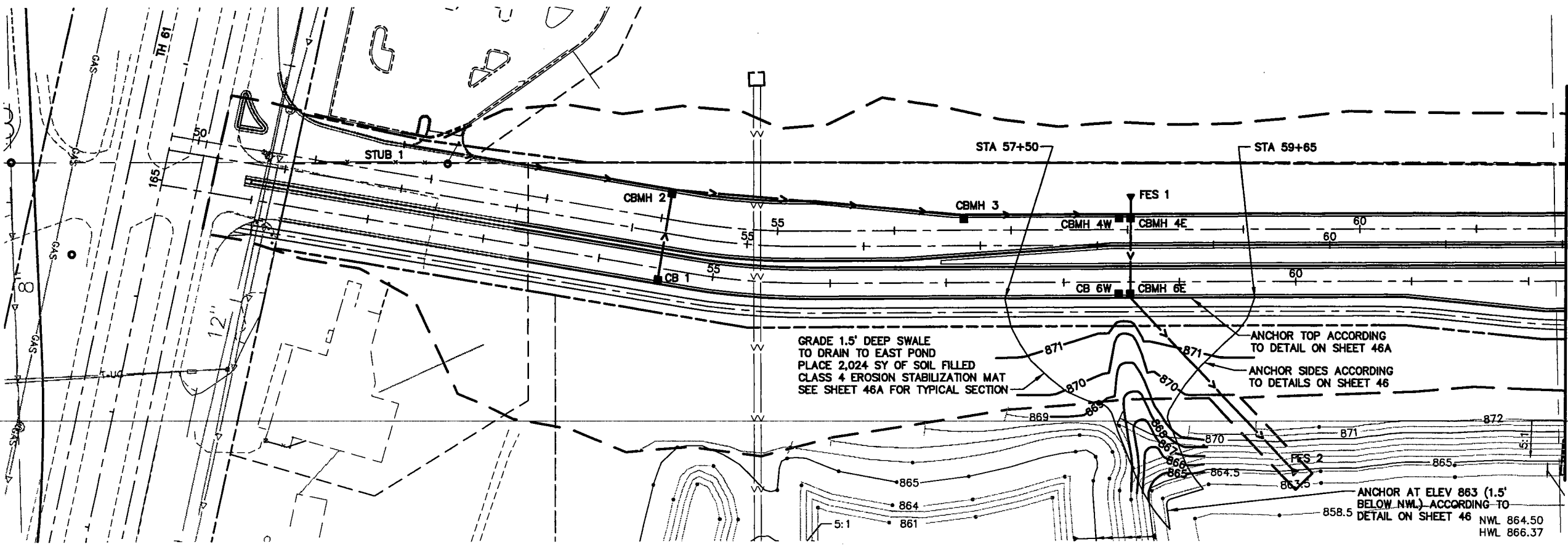
Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

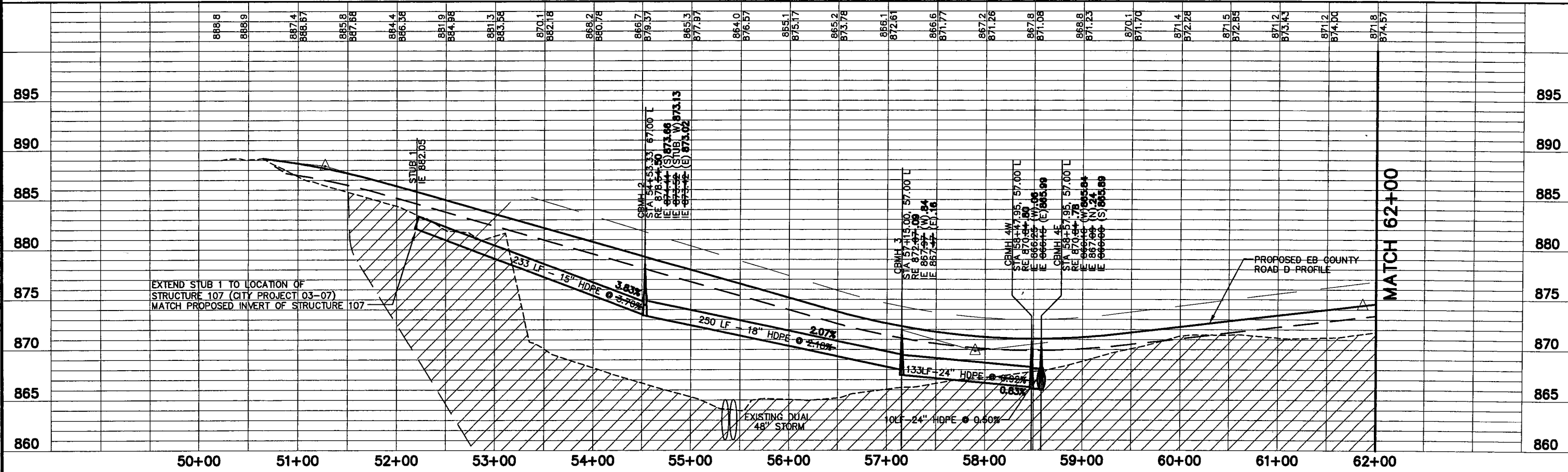
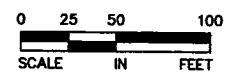
CITY OF MAPLEWOOD
COUNTY ROAD D
STREET PROFILES
EB AND WB COUNTY ROAD D
STATION 100+00 TO STATION 109+00

CITY PROJECT	02-07	SHEET NO.	35
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Jun 14, 2006 2:17pm DISK FILE NAME: (16.1) R:\49392007\PLAN-SHT\007-pln-sht\007-ST01.dwg



MATCH 62+00



MATCH 62+00

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-llm		49392-007	1	BAC	05/27/04	REVISED RIM ELEVATIONS
007-PRF			2	JCD	04/21/05	PER CHANGE ORDER #13
007-ALI			3	JCD	07/06/05	REVISED STORM SEWER
007-eut			4	SAW	08/23/05	REVISED CBMH TO FES 2
007-ESM			5	SAW	10/19/05	REVISED STUB 1 TO CBMH 2
007-PCO			6	BJK	05/04/06	REVISED GRADING TO EAST POND
007-ESU-CITY-D			7	BJK	06/14/06	REVISED EROSION STABILIZATION MAT
22x34pgrd			8	JCD	01/09/07	AS-BUILT
007-PJT						
007-ETO						
22x34bdr						

URS

28-260

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Minneapolis, MN 55416
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Karl P. Keel
KARL P. KEEL

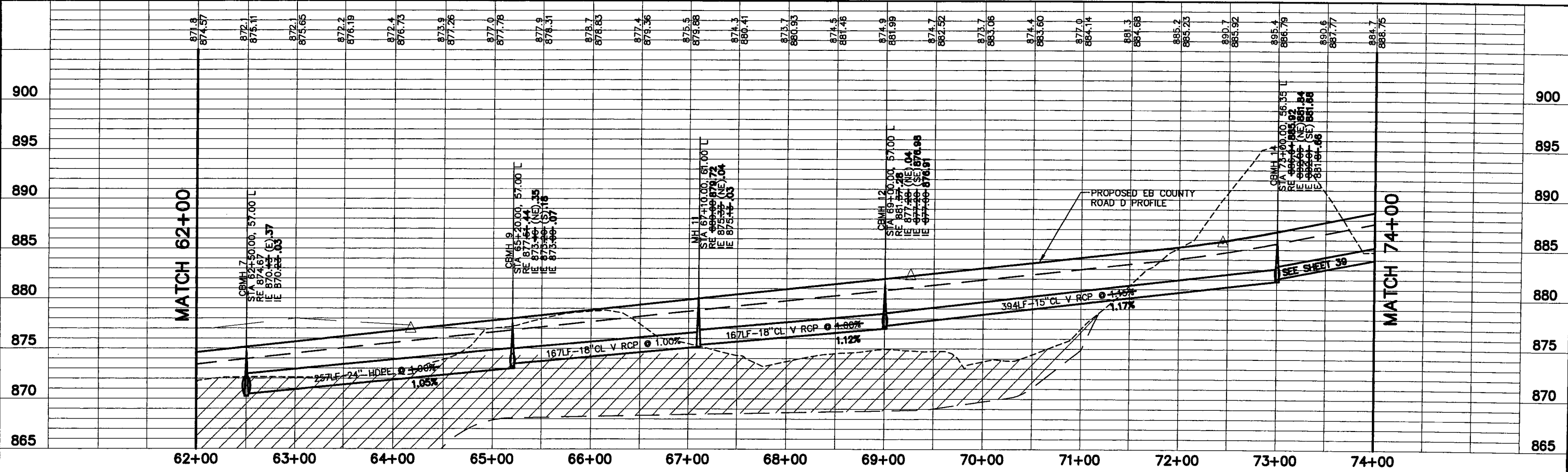
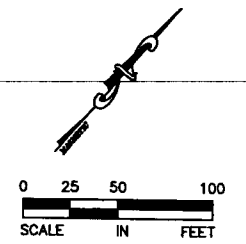
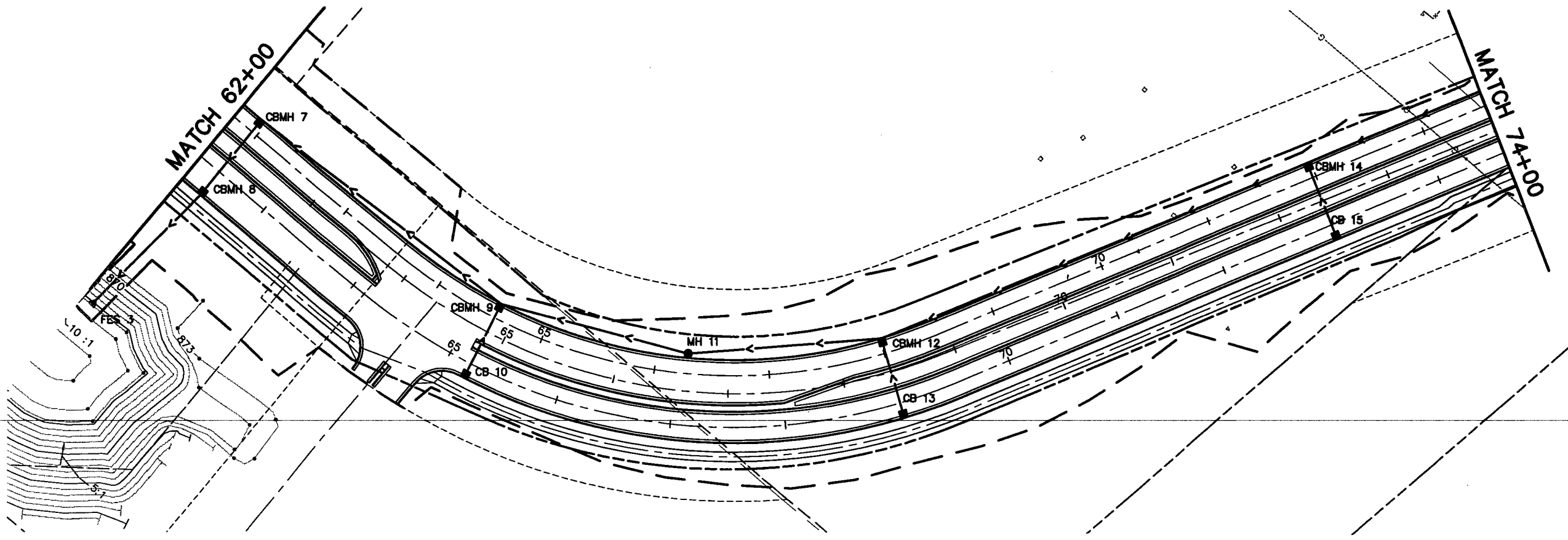
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

STORMWATER AND UTILITY PLAN AND PROFILE
COUNTY ROAD D
STATION 50+00 TO STATION 62+00

CITY PROJECT	02-07	SHEET NO.	37
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		99

NOTE: STATIONING IS BASED ON EASTBOUND COUNTY ROAD D ALIGNMENT



PLOT DATE: Jul 06, 2005 5:06pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sh1\007-ST02.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-1lm		43932-007	1	BAC	05/27/04	REVISED RIM ELEVATIONS
007-PRF			2	JCD	04/21/05	PER CHANGE ORDER #13
007-ESM			3	JCD	7/8/05	REVISED STORM SEWER
007-EUT			4	JCD	1/9/07	AS-BUILT
007-esu-cty-d						
007-ALI						
007-PCD						
007-PUT						
007-ETO						
22x34pgrd						
22x34bdr						

URS
28-260

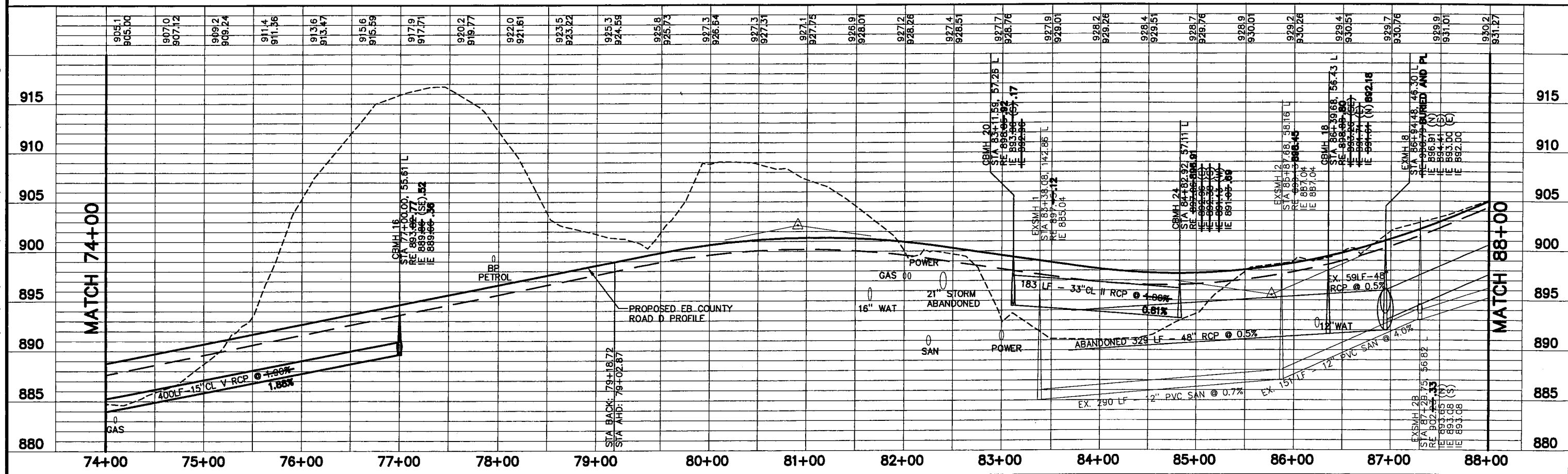
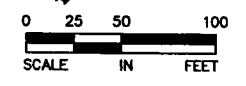
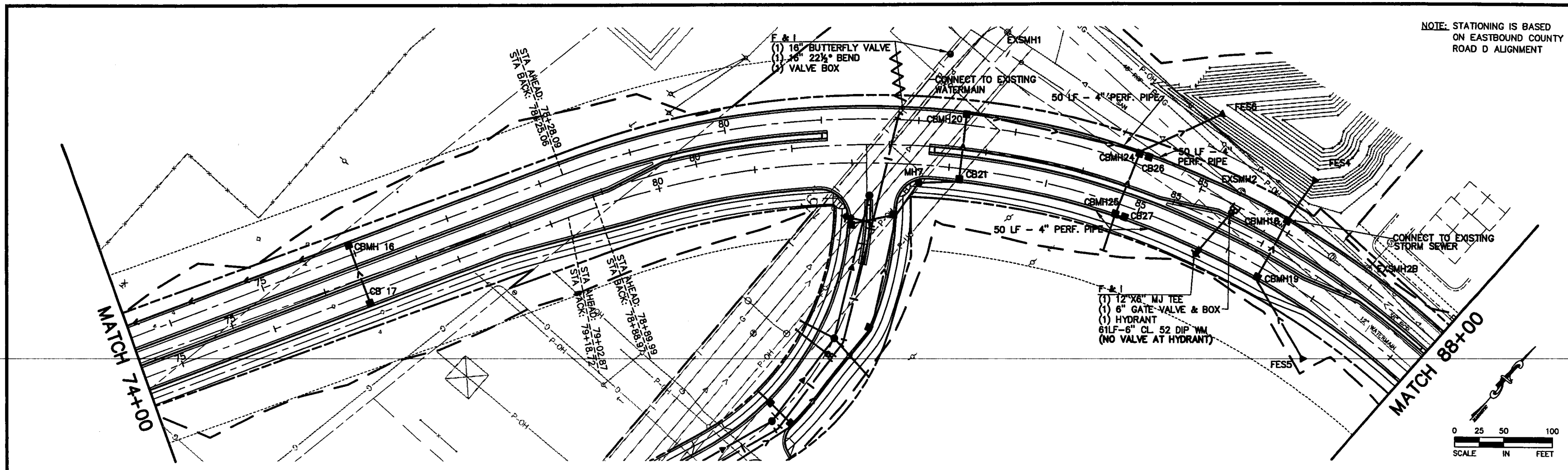
Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tlx
612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
STORMWATER AND UTILITY PLAN AND PROFILE
COUNTY ROAD D
STATION 62+00 TO STATION 74+00

CITY PROJECT	02-07	SHEET NO.	38
COUNTY PROJECT			
S.A.P.	138-121-03		99
S.A.P.	138-112-05		

NOTE: STATIONING IS BASED ON EASTBOUND COUNTY ROAD D ALIGNMENT



PLOT DATE: Apr 27, 2005 10:50am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-ASBUILTS\007-ST03.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	04/21/05	PER CHANGE ORDER #13
2	JCD	01/09/07	AS-BUILT

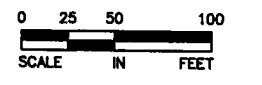
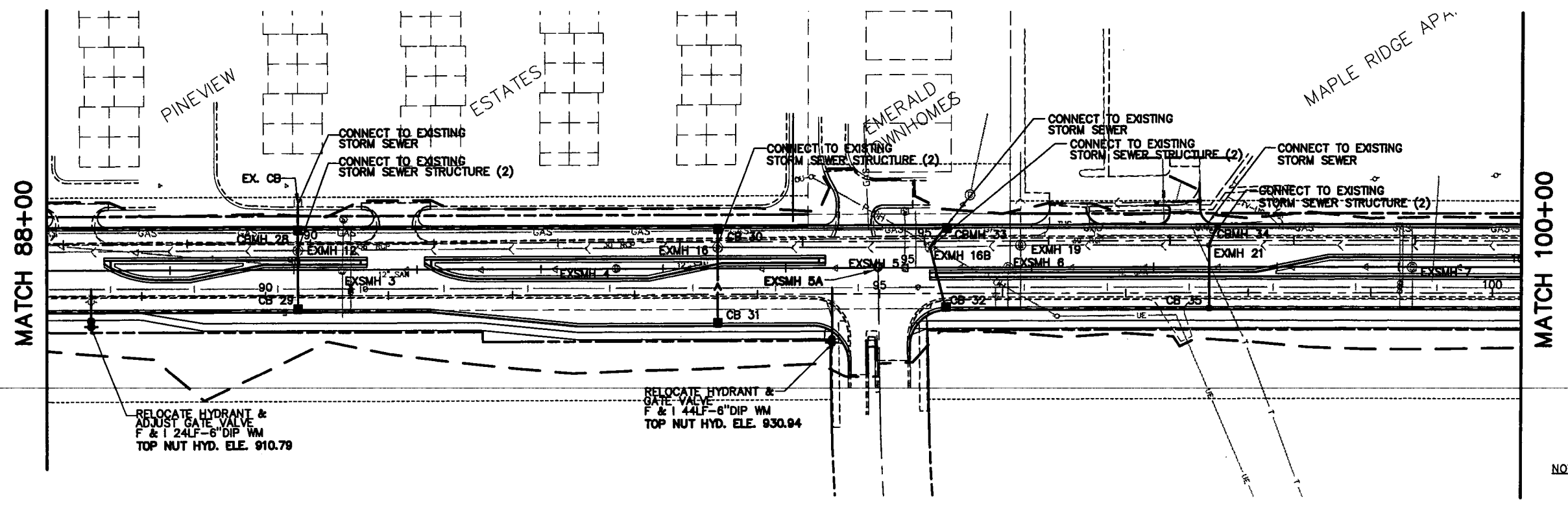
URS
 28-260

Thrasher Square
 700 Third Street South
 Minneapolis, MN 55416
 612.370.0700 Tel
 612.370.1378 Fax

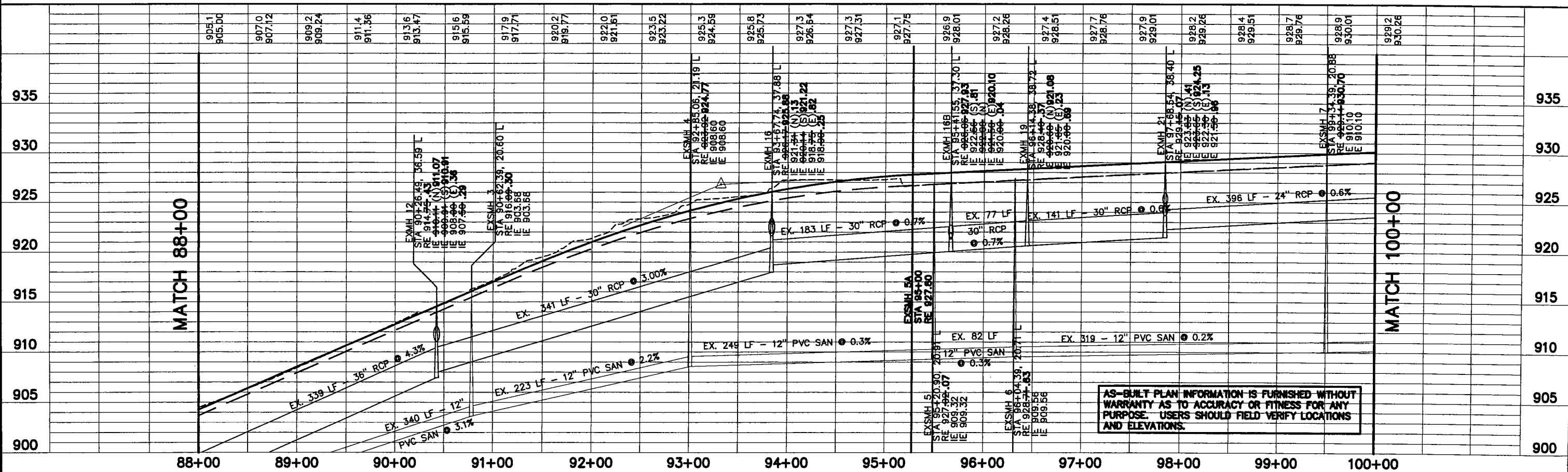
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Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
 STORMWATER AND UTILITY PLAN AND PROFILE
 COUNTY ROAD D
 STATION 74+00 TO STATION 88+00

CITY PROJECT	02-07	SHEET NO.	39
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		



NOTE: STATIONING IS BASED ON EASTBOUND COUNTY ROAD D ALIGNMENT



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PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBUILTS\007-ST04.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-llm	007-PRF	43932-007	1	BAC	1/11/2005	AS BUILTS
007-ESU-CTY-D	007-PCO	43932-007				
007-eut	007-ESM	CHKD. BY:				
007-ALJ	007-PUT	DESIGN BY:				
007-ETO	007-ETD	DATE:				
007-ETD	007-ETD	FEBRUARY 27, 2004				

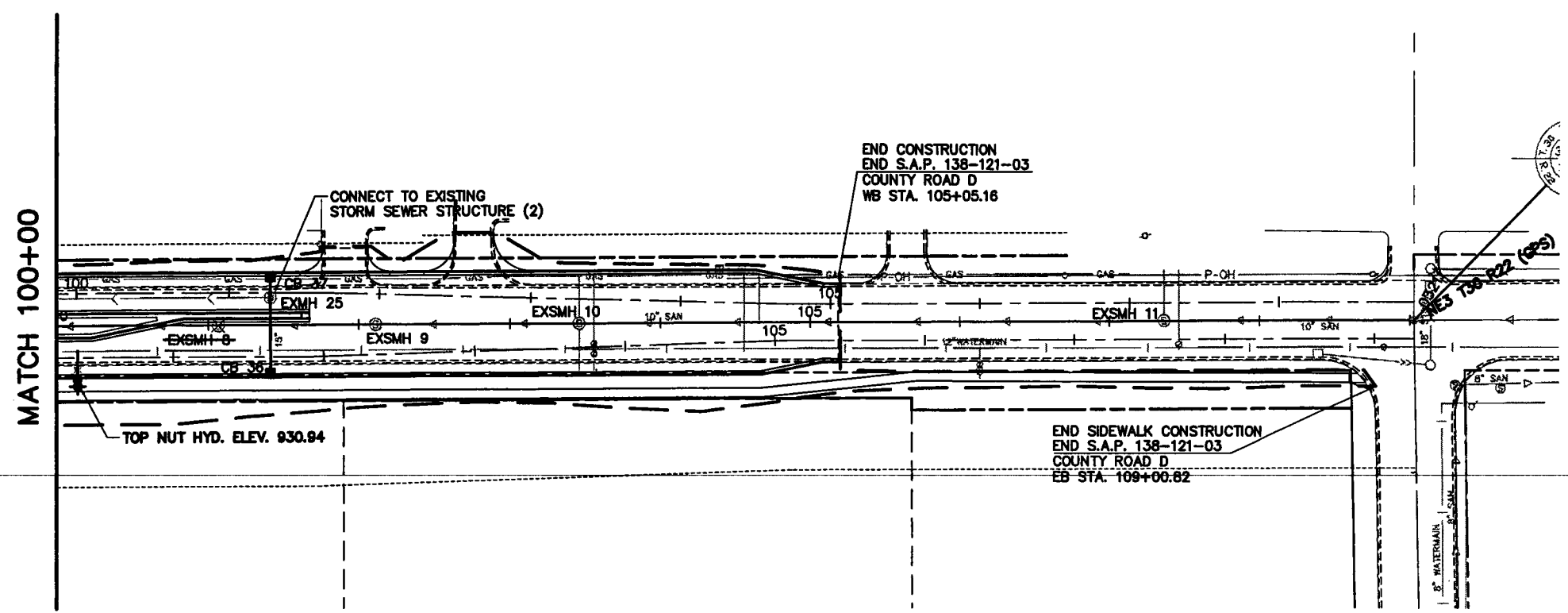
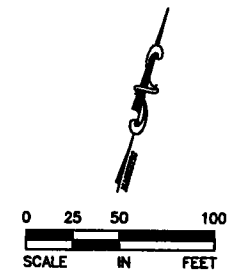
URS
28-260

Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

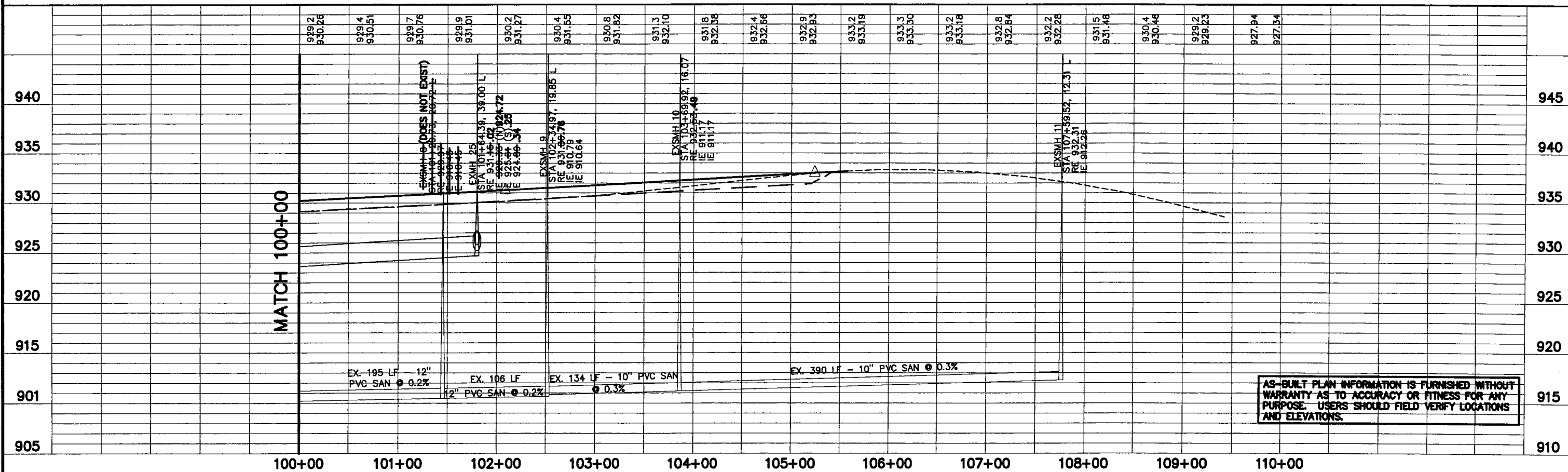
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2004 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
STORMWATER AND UTILITY PLAN AND PROFILE
COUNTY ROAD D
STATION 88+00 TO STATION 100+00

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		40
S.A.P.	138-121-03	
S.A.P.	138-112-05	99



NOTE: STATIONING IS BASED ON EASTBOUND COUNTY ROAD D ALIGNMENT



PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sh\007-ASBUILTS\007-ST05.dwg

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	BAC	1/11/2005	AS BUILTS

URS
28-260

Thresher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

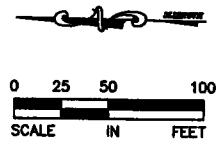
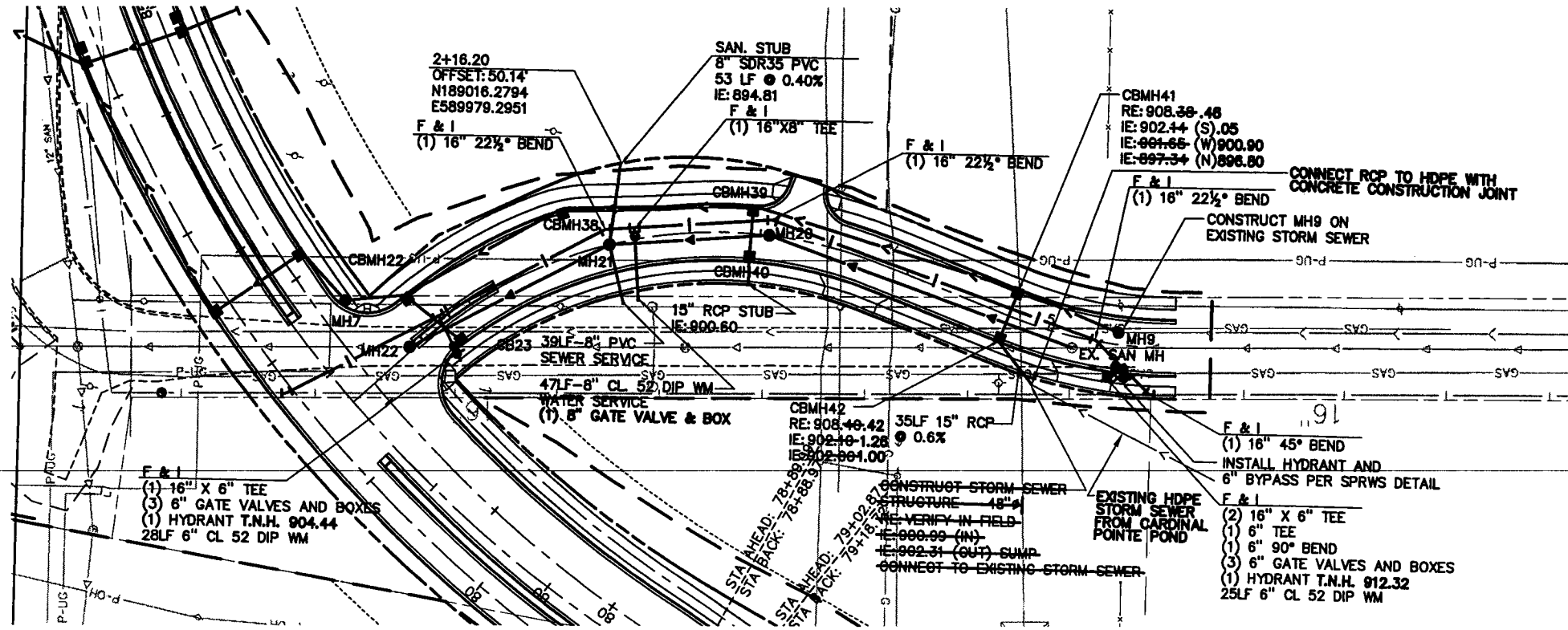
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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2004 MN LIC. NO. 19681

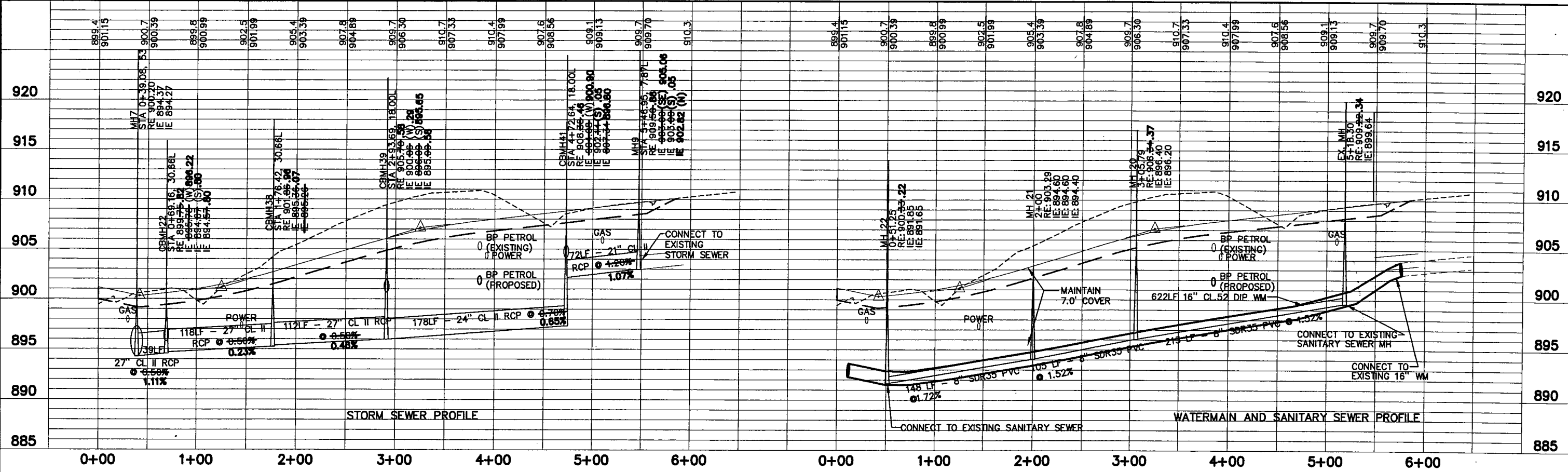
CITY OF MAPLEWOOD
COUNTY ROAD D

STORMWATER AND UTILITY PLAN AND PROFILE
COUNTY ROAD D
STATION 100+00 TO STATION 104+88.06

CITY PROJECT	02-07	SHEET NO.	41
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		



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PLOT DATE: Jul 07, 2005 8:46am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-ASBUILTS\007-ST06.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-llm		43932-007	1	BAC	05/25/04	ADDED HYDRANT & 6" BYPASS
007-PRF			2	MRH	8/2/04	SANITARY INVERT REVISIONS
007-mpwd-plat			3	MRH	8/12/04	LOWERED STORM SEWER
007-ESU-CITY-D			4	BAC	8/18/04	ADDED WATER AND SANITARY SEWER SERVICES
007-PCO			5	MRH	9/9/04	RELOCATION OF CBMH39, CBMH40, & STUB ADDITION
007-eut			6	MRH	10/13/04	CBMH42 / CBMH41 REVISION & WATERMAIN UPDATE
007-ESM			7	JWF	7/10/07	AS-BUILT
007-ALI						
007-PUT						
007-ETO						
007-34eard						

URS
28-260

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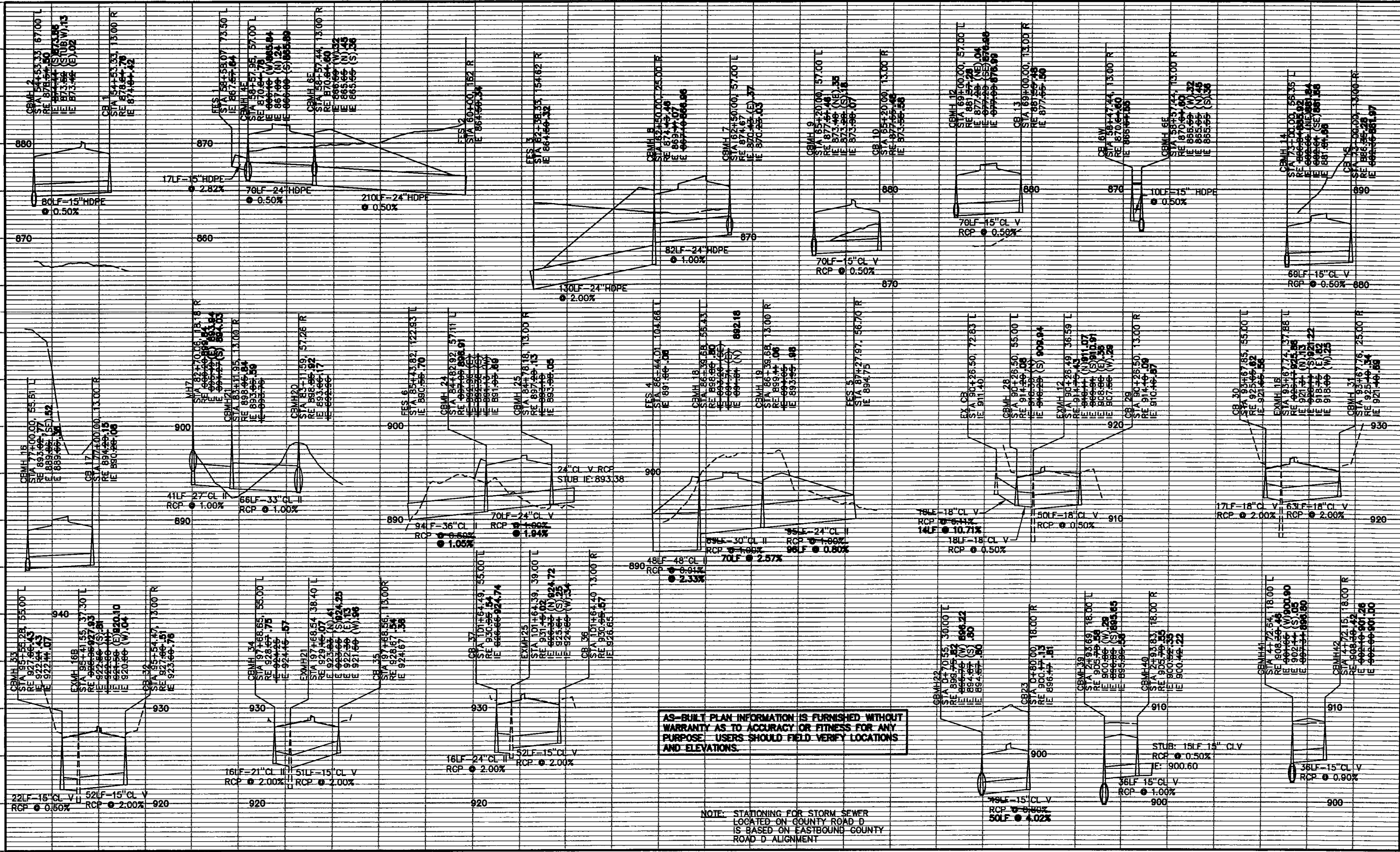
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2004 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

STORMWATER AND UTILITY PLAN AND PROFILE
HAZELWOOD STREET
STATION 0+00 TO STATION 6+17.84

CITY PROJECT	02-07	SHEET NO. 42
COUNTY PROJECT		
S.A.P.	138-121-03	99
S.A.P.	138-112-05	

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-ent\007-ASBUILTS\007-STPR-1.dwg



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NOTE: STATIONING FOR STORM SEWER LOCATED ON COUNTY ROAD D IS BASED ON EASTBOUND COUNTY ROAD D ALIGNMENT

XREF DRAWINGS
 51M-PRO
 71-grid-22x34
 22x34bdr

DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
DRAWN BY: 43932-007	1	BAC	5/27/2004	REVISED RIM ELEVATIONS
DESIGN BY: NCL	2	MRH	10/13/04	REVISED CBMH41 / CBMH42
CHKD. BY: NCL	3	JCD	04/21/05	PER CHANGE ORDER #13
DWG. NAME: STPR-1	4	JCD	7/6/05	REVISED STORM SEWER
DATE: FEBRUARY 27, 2004	5	JCD	01/09/07	AS-BUILT

URS
 28-260

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 700 Third Street South
 Minneapolis, MN 55415
 612.370.0700 Tel
 612.370.1378 Fax

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Karl P. Keel
 KARL P. KEEL
 DATE: 4/15/2004 MN LIC. NO. 19681

CITY OF MAPLEWOOD
 COUNTY ROAD D
 STORM SEWER
 LATERAL PROFILES

CITY PROJECT 02-07
 COUNTY PROJECT
 S.A.P. 138-121-03
 S.A.P. 138-112-05

SHEET NO.
 43
 99

STRUCTURE SCHEDULE

NUMBER	NORTHING	EASTING	Elevation
A1	189736.7	590088.4	892.00
A2	189721.0	590064.2	890.00
A3	189458.5	590100.1	890.56
A4	189468.9	590189.1	891.00
A5	189274.1	590070.2	898.00
A6	189337.3	590263.5	894.75

* LOCATION IS CENTER/END OF FES

NORTH POND GRADING CONTROL

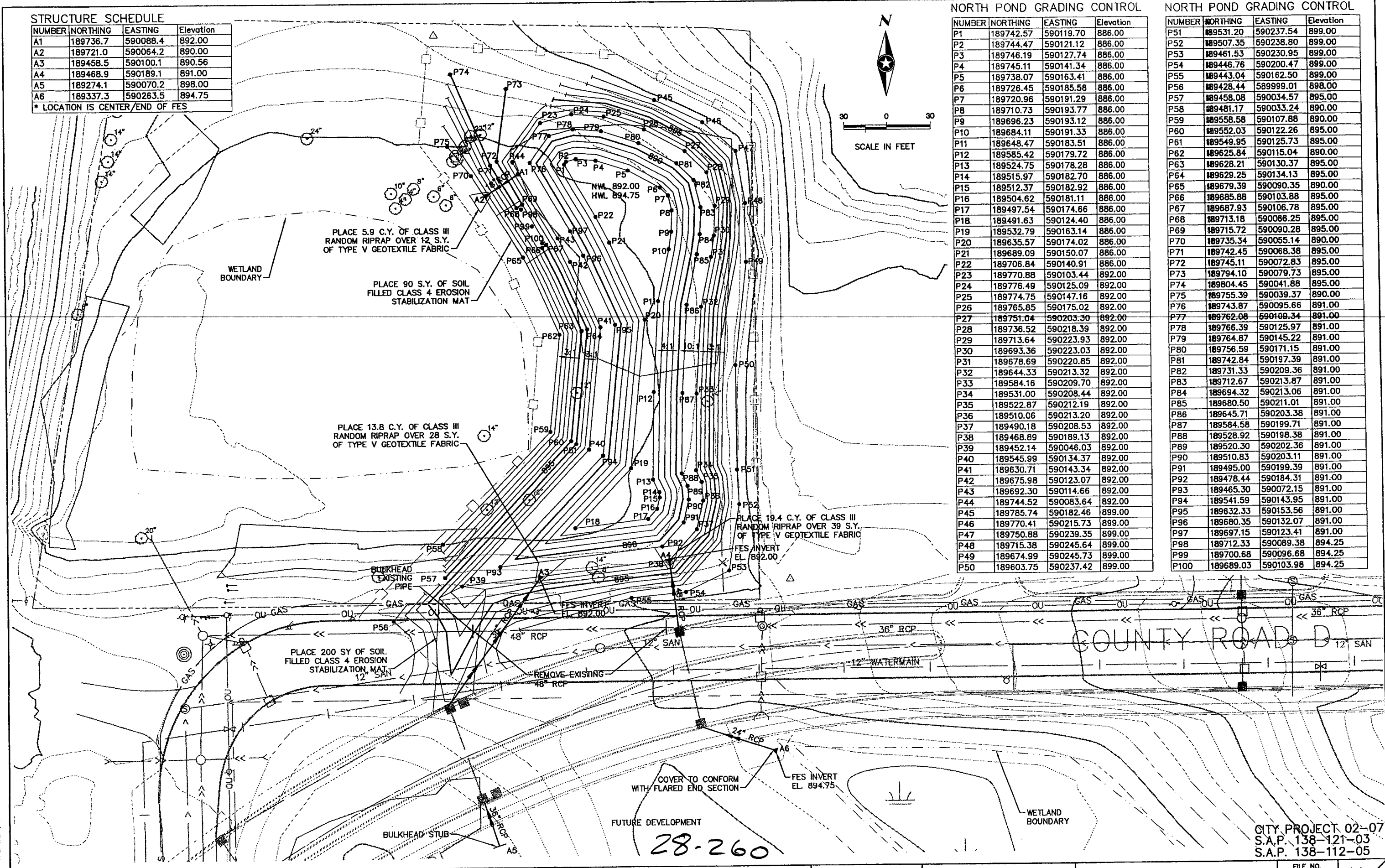
NUMBER	NORTHING	EASTING	Elevation
P1	189742.57	590119.70	886.00
P2	189744.47	590121.12	886.00
P3	189746.19	590127.74	886.00
P4	189745.11	590141.34	886.00
P5	189738.07	590163.41	886.00
P6	189726.45	590185.58	886.00
P7	189720.96	590191.29	886.00
P8	189710.73	590193.77	886.00
P9	189696.23	590193.12	886.00
P10	189684.11	590191.33	886.00
P11	189648.47	590183.51	886.00
P12	189585.42	590179.72	886.00
P13	189524.75	590178.28	886.00
P14	189515.97	590182.70	886.00
P15	189512.37	590182.92	886.00
P16	189504.62	590181.11	886.00
P17	189497.54	590174.66	886.00
P18	189491.63	590124.40	886.00
P19	189532.79	590163.14	886.00
P20	189635.57	590174.02	886.00
P21	189689.09	590150.07	886.00
P22	189706.84	590140.91	886.00
P23	189770.88	590103.44	892.00
P24	189776.49	590125.09	892.00
P25	189774.75	590147.16	892.00
P26	189765.85	590175.02	892.00
P27	189751.04	590203.30	892.00
P28	189736.52	590218.39	892.00
P29	189713.64	590223.93	892.00
P30	189693.36	590223.03	892.00
P31	189678.69	590220.85	892.00
P32	189644.33	590213.32	892.00
P33	189584.16	590209.70	892.00
P34	189531.00	590208.44	892.00
P35	189522.87	590212.19	892.00
P36	189510.06	590213.20	892.00
P37	189490.18	590208.53	892.00
P38	189468.89	590189.13	892.00
P39	189452.14	590046.03	892.00
P40	189545.99	590134.37	892.00
P41	189630.71	590143.34	892.00
P42	189675.98	590123.07	892.00
P43	189692.30	590114.66	892.00
P44	189744.52	590083.64	892.00
P45	189785.74	590182.46	899.00
P46	189770.41	590215.73	899.00
P47	189750.88	590239.35	899.00
P48	189715.38	590245.64	899.00
P49	189674.99	590245.73	899.00
P50	189603.75	590237.42	899.00

NORTH POND GRADING CONTROL

NUMBER	NORTHING	EASTING	Elevation
P51	189531.20	590237.54	899.00
P52	189507.35	590238.80	899.00
P53	189461.53	590230.95	899.00
P54	189446.76	590200.47	899.00
P55	189443.04	590182.50	899.00
P56	189428.44	589999.01	898.00
P57	189458.08	590034.57	895.00
P58	189481.17	590033.24	890.00
P59	189558.58	590107.88	890.00
P60	189552.03	590122.26	895.00
P61	189549.95	590125.73	895.00
P62	189625.84	590115.04	890.00
P63	189628.21	590130.37	895.00
P64	189629.25	590134.13	895.00
P65	189679.39	590090.35	890.00
P66	189685.88	590103.88	895.00
P67	189687.93	590106.78	895.00
P68	189713.18	590086.25	895.00
P69	189715.72	590090.28	895.00
P70	189735.34	590055.14	890.00
P71	189742.45	590068.38	895.00
P72	189745.11	590072.83	895.00
P73	189794.10	590079.73	895.00
P74	189804.45	590041.88	895.00
P75	189755.39	590039.37	890.00
P76	189743.87	590095.66	891.00
P77	189762.08	590109.34	891.00
P78	189766.39	590125.97	891.00
P79	189764.87	590145.22	891.00
P80	189756.59	590171.15	891.00
P81	189742.84	590197.39	891.00
P82	189731.33	590209.36	891.00
P83	189712.67	590213.87	891.00
P84	189694.32	590213.06	891.00
P85	189680.50	590211.01	891.00
P86	189645.71	590203.38	891.00
P87	189584.58	590199.71	891.00
P88	189528.92	590198.38	891.00
P89	189520.30	590202.36	891.00
P90	189510.83	590203.11	891.00
P91	189495.00	590199.39	891.00
P92	189478.44	590184.31	891.00
P93	189465.30	590072.15	891.00
P94	189541.59	590143.95	891.00
P95	189632.33	590153.56	891.00
P96	189680.35	590132.07	891.00
P97	189697.15	590123.41	891.00
P98	189712.33	590089.38	894.25
P99	189700.68	590096.68	894.25
P100	189689.03	590103.98	894.25



SCALE IN FEET



28-260

CITY PROJECT 02-07
S.A.P. 138-121-03
S.A.P. 138-112-05

DRAWN BY:	BRH		
DESIGNER:	PDH		
CHECKED BY:	RBL		
DESIGN TEAM			
NO.	BY	DATE	REVISIONS

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Ronald B. Leaf
RONALD B. LEAF, P.E.
Date: 05/13/04 Lic. No. 24411



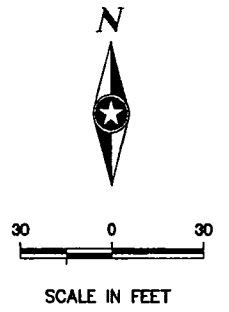
MAPLEWOOD
MINNESOTA

NORTH POND
GRADING & STORM SEWER PLAN

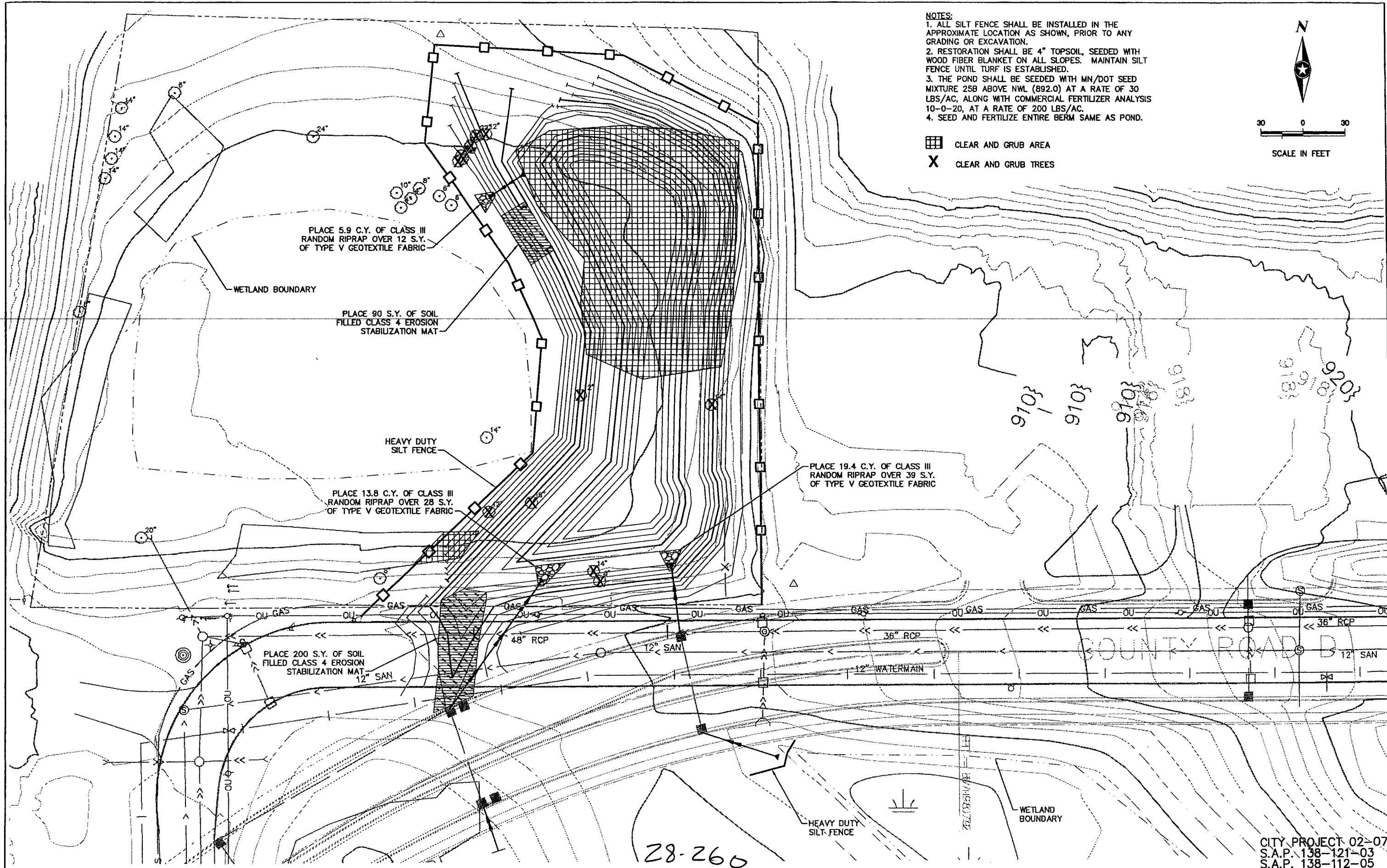
FILE NO.	A-MAPLE0306.01	44
DATE	05/13/04	99

V:\01\MAPLEWOOD\030601\NORTH POND - GRADING.DWG
 DATE: 05-13-04 TIME: 6:23 pm USER: PHEGUE

- NOTES:**
1. ALL SILT FENCE SHALL BE INSTALLED IN THE APPROXIMATE LOCATION AS SHOWN, PRIOR TO ANY GRADING OR EXCAVATION.
 2. RESTORATION SHALL BE 4" TOPSOIL, SEEDED WITH WOOD FIBER BLANKET ON ALL SLOPES. MAINTAIN SILT FENCE UNTIL TURF IS ESTABLISHED.
 3. THE POND SHALL BE SEEDED WITH MN/DOT SEED MIXTURE 25B ABOVE NWL (892.0) AT A RATE OF 30 LBS/AC, ALONG WITH COMMERCIAL FERTILIZER ANALYSIS 10-0-20, AT A RATE OF 200 LBS/AC.
 4. SEED AND FERTILIZE ENTIRE BERM SAME AS POND.



- CLEAR AND GRUB AREA
- CLEAR AND GRUB TREES



X:\NO\MAPLE\030600\030601\NORTH POND - TURFEST.DWG USER: PHEGRE DATE: 05-12-04 TIME: 3:00 pm

DRAWN BY:	BRH				
DESIGNER:	PDH				
CHECKED BY:	RBL				
DESIGN TEAM	NO.	BY	DATE	REVISIONS	

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Ronald B. Leaf
 RONALD B. LEAF, P.E.
 Date: 05/13/04 Lic. No. 24411

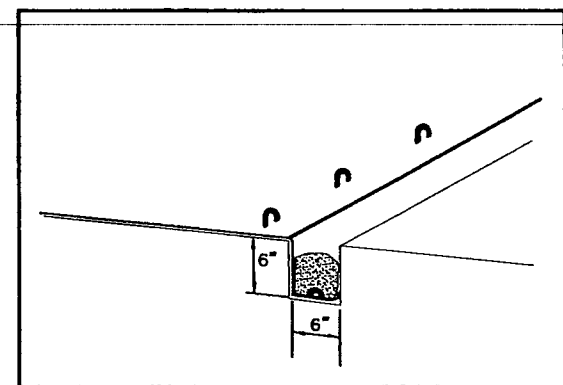
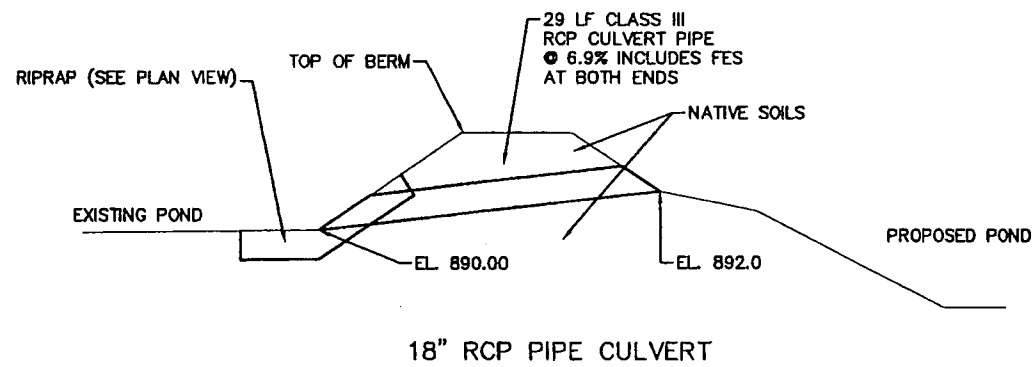


MAPLEWOOD
MINNESOTA

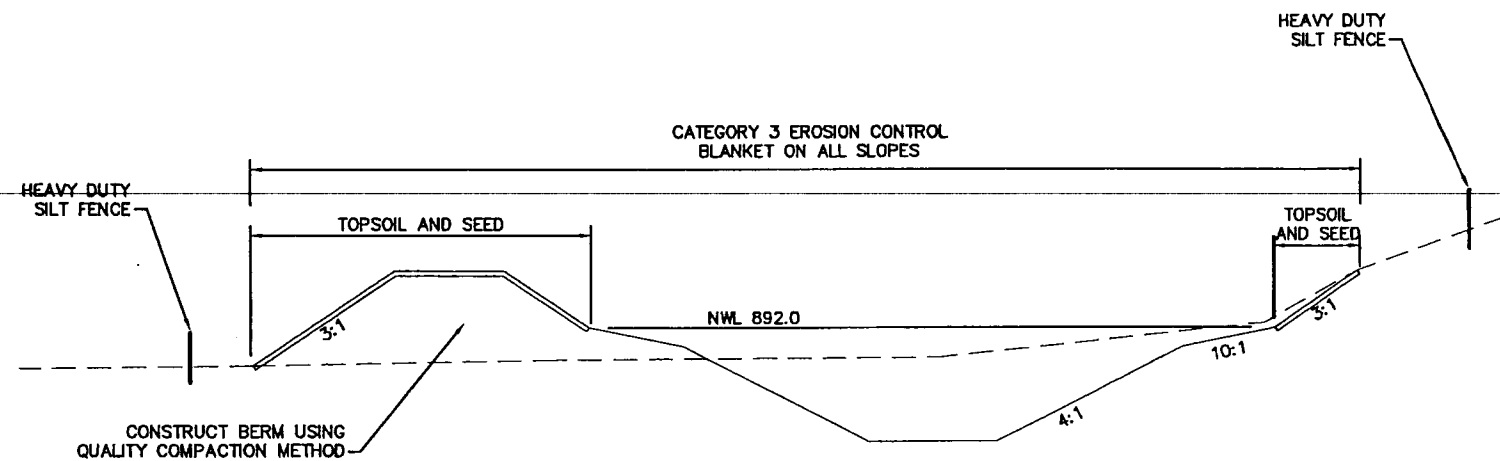
NORTH POND
CLEARING, GRUBBING AND
RESTORATION PLAN

FILE NO.	A-MAPLE0308.01	45
DATE	05/13/04	99

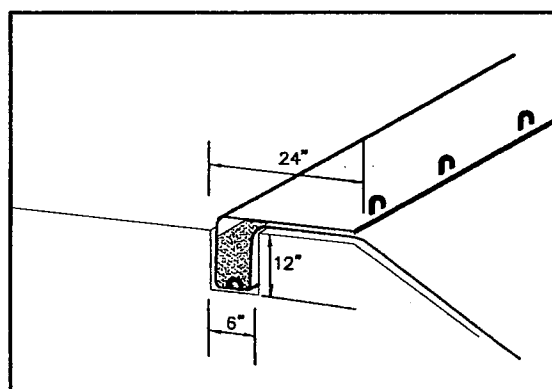
CITY PROJECT 02-07
S.A.P. 138-121-03
S.A.P. 138-112-05



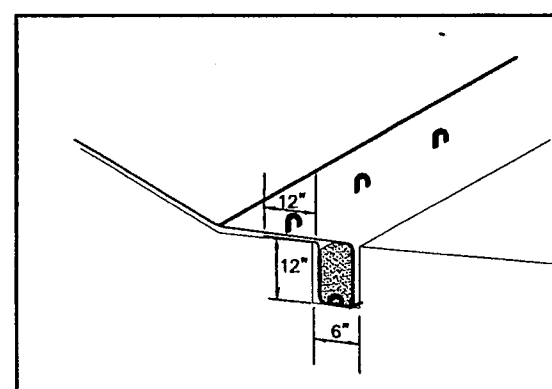
TERMINAL ANCHOR TRENCH (LONGITUDINAL)
EROSION STABILIZATION MAT



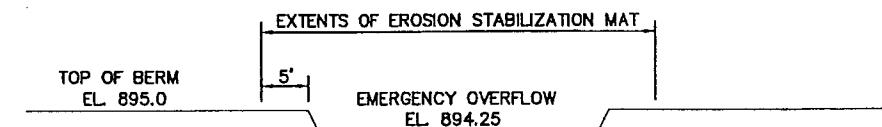
TYPICAL POND SECTION



TERMINAL ANCHOR TRENCH (TOP SLOPE)
EROSION STABILIZATION MAT



TERMINAL ANCHOR TRENCH (BOTTOM SLOPE)
EROSION STABILIZATION MAT



EMERGENCY OVERFLOW DETAIL

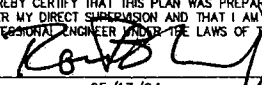
28-260

CITY PROJECT 02-07
S.A.P. 138-121-03
S.A.P. 138-112-05

X:\V\MAPLE\030600\030601\WPDETAIL.DWG USER: PHEGRE DATE: 05-13-04 TIME: 6:48 PM

DRAWN BY:	BRH			
DESIGNER:	PDH			
CHECKED BY:	RBL			
DESIGN TEAM	NO.	BY	DATE	REVISIONS

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 RONALD B. LEAF, P.E.
 Date: 05/13/04 Lic. No. 24411



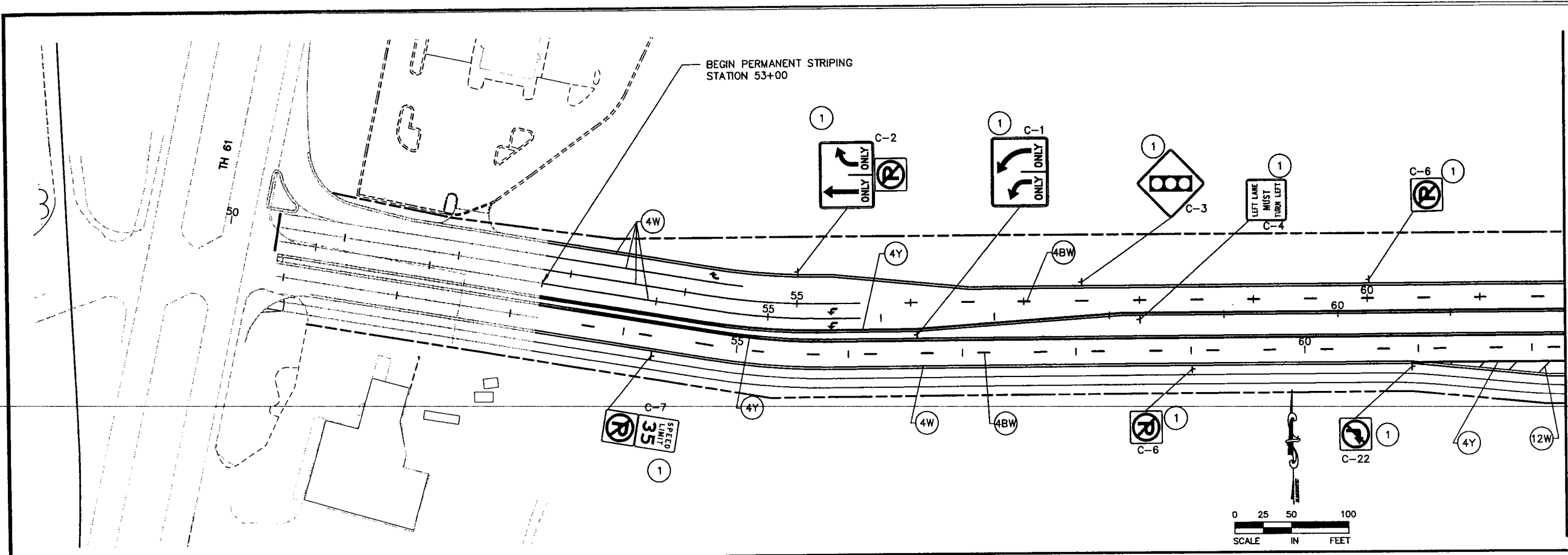
MAPLEWOOD
MINNESOTA

NORTH POND DETAILS
COUNTY ROAD D ALIGNMENT

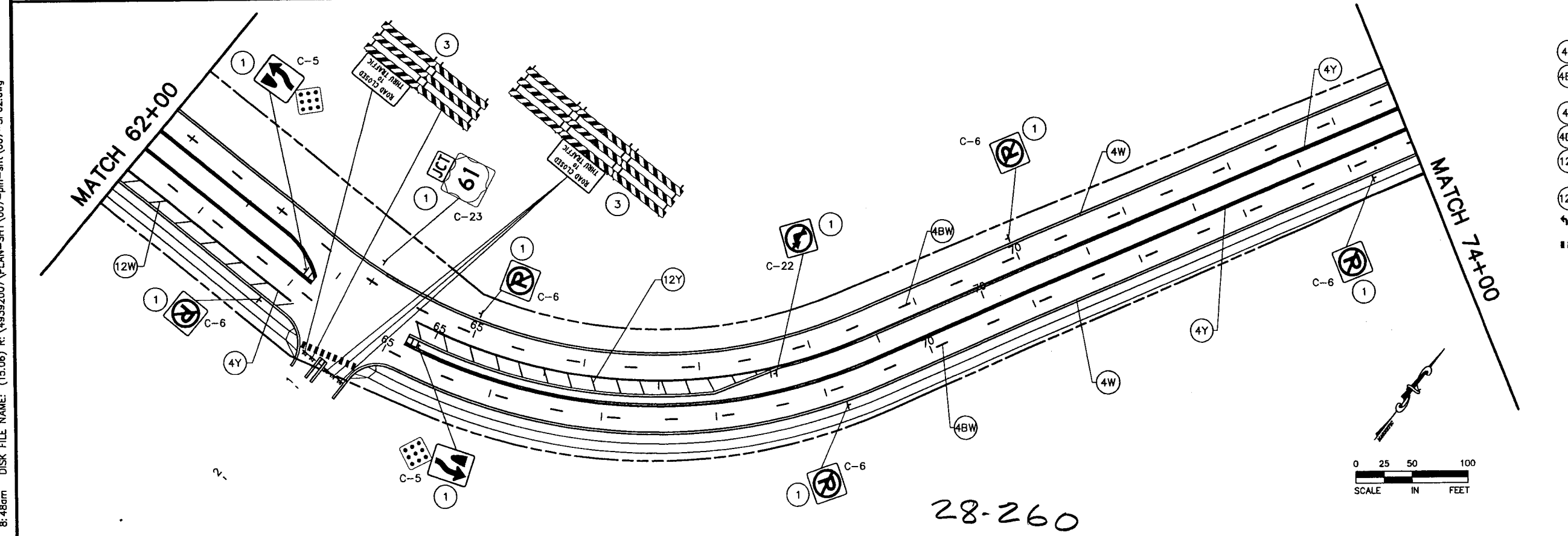
FILE NO.
A-MAPLE0306.01
DATE
05/13/04

46
99

DT DATE: Jul 07, 2005 8:48am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\007-SPO2.dwg



- NOTES:**
- ① FURNISH AND INSTALL SIGN (BY OTHERS)
 - ② INSTALL SALVAGED SIGN (BY OTHERS)
 - ③ BARRICADES TO REMAIN IN PLACE UPON PROJECT COMPLETION



- PERMANENT PAVEMENT MARKING SYMBOLS**
- ④W 4" SOLID LINE WHITE - EPOXY
 - ④BW 4" BROKEN LINE WHITE - EPOXY (10' STRIPE, 40' GAP)
 - ④Y 4" SOLID LINE YELLOW - EPOXY
 - ④DY 4" DOUBLE SOLID LINE YELLOW - EPOXY
 - ⑫Y 12" SOLID LINE YELLOW - EPOXY (45° @ 20' SPACING)
 - ⑫W 12" STOP LINE WHITE - EPOXY
 - ↔ PAVEMENT MESSAGE - POLY PREFORM
 - ▤ PEDESTRIAN CROSSWALK - POLY PREFORM
- NOTES:**
- EPOXY BY OTHERS
 - POLY PREFORM BY CONTRACTOR

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-ESM		43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
007-PSG			2	AS-BUILT	4/21/07	
007-PCO						
007-ALI						
007-esu-cty-d						
007-ETO						
007-BLD						
22x34bdr						
DRAWN BY:		DESIGN BY:				
JCD		SAW				
CHKD. BY:		DWG. NAME:				
NCL		SPO2				
DATE:						



Thresher Square
 700 Third Street South
 Minneapolis, MN 55416
 612.370.0700 Tel
 612.370.1378 Fax

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Karl P. Keel
 KARL P. KEEL

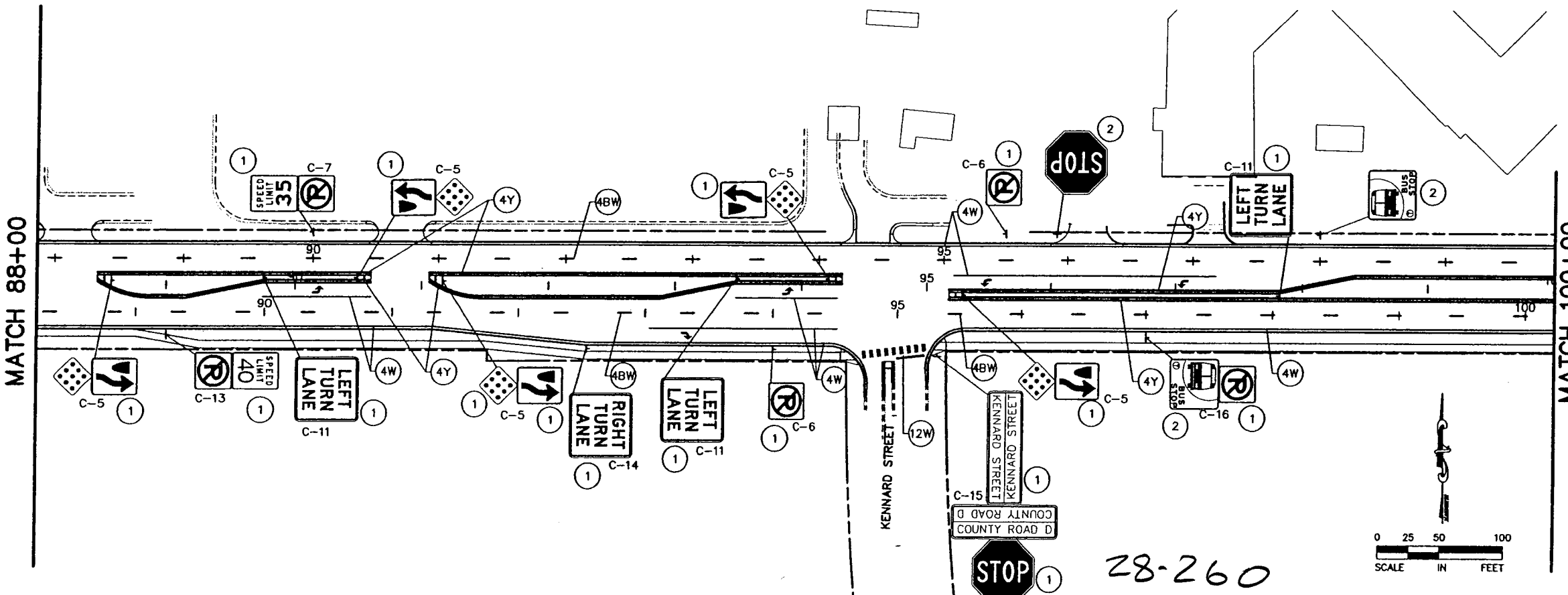
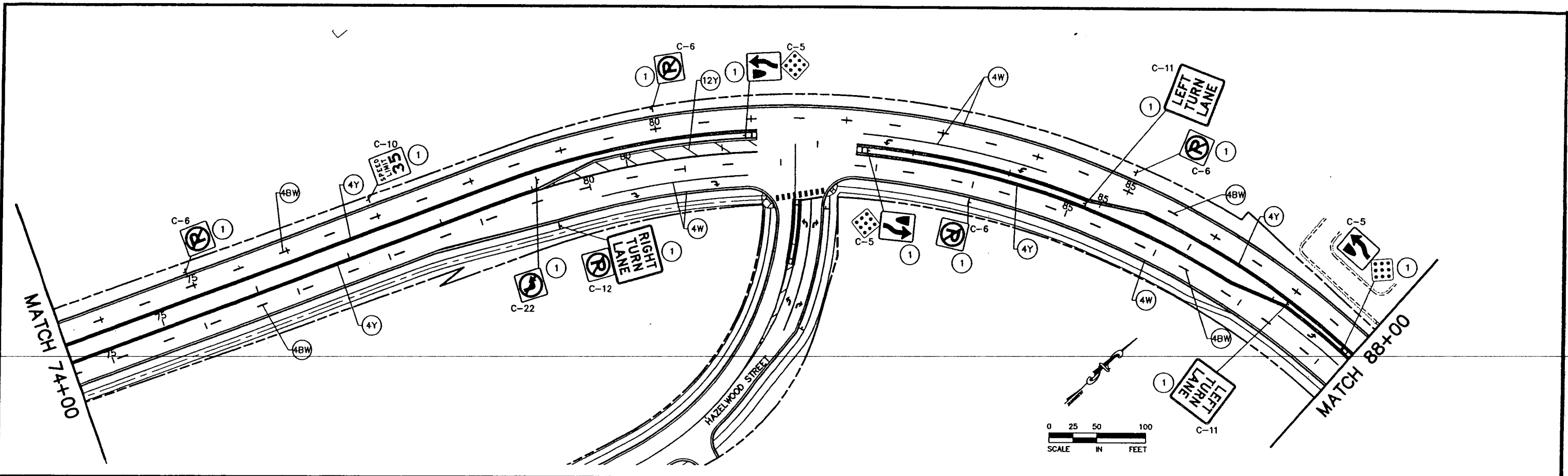
CITY OF MAPLEWOOD
 COUNTY ROAD D

SIGNING & STRIPING
 COUNTY ROAD D
 STATION 53+00 TO STATION 74+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
 47
 99

PLOT DATE: Apr 27, 2005 10:51am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-SP03.dwg



- NOTES:**
- ① FURNISH AND INSTALL SIGN (BY OTHERS)
 - ② INSTALL SALVAGED SIGN (BY OTHERS)

- PERMANENT PAVEMENT MARKING SYMBOLS**
- ④W 4" SOLID LINE WHITE - EPOXY
 - ④BW 4" BROKEN LINE WHITE - EPOXY (10' STRIPE, 40' GAP)
 - ④Y 4" SOLID LINE YELLOW - EPOXY
 - ④DY 4" DOUBLE SOLID LINE YELLOW - EPOXY
 - ⑫Y 12" SOLID LINE YELLOW - EPOXY (45° @ 20' SPACING)
 - ⑫W 12" STOP LINE WHITE - EPOXY
 - ↗ PAVEMENT MESSAGE - POLY PREFORM
 - ▬▬ PEDESTRIAN CROSSWALK - POLY PREFORM

- NOTES:**
- EPOXY BY OTHERS
 - POLY PREFORM BY CONTRACTOR

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-ESM	007-PSG	43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
007-PCO	007-ALI		2	JCD	1/2/07	AS-BUILT
007-ESU-CTY-d	007-ETO					
007-BLD	22x34bdr					
DRAWN BY: JCD		DESIGN BY: SAW				
CHKD. BY: NCL		DWG. NAME: SP03				
DATE: FEBRUARY 27, 2004						



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Minneapolis, MN 55415
612.370.0700 Tlx
612.370.0378 Fax

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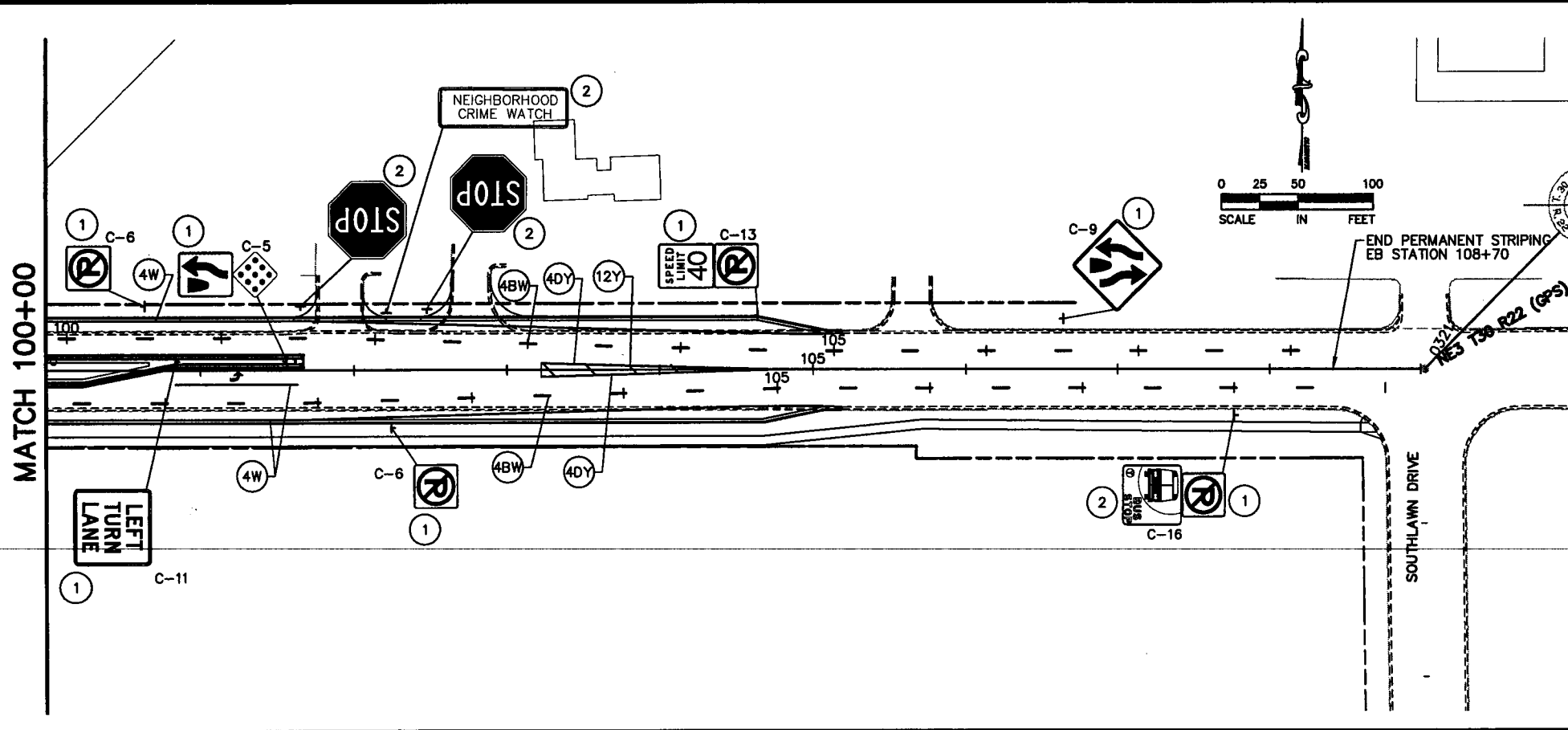
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

SIGNING & STRIPING
COUNTY ROAD D
STATION 74+00 TO STATION 100+00

CITY PROJECT	02-07	SHEET NO.	48
COUNTY PROJECT			
S.A.P.	138-121-03		99
S.A.P.	138-112-05		

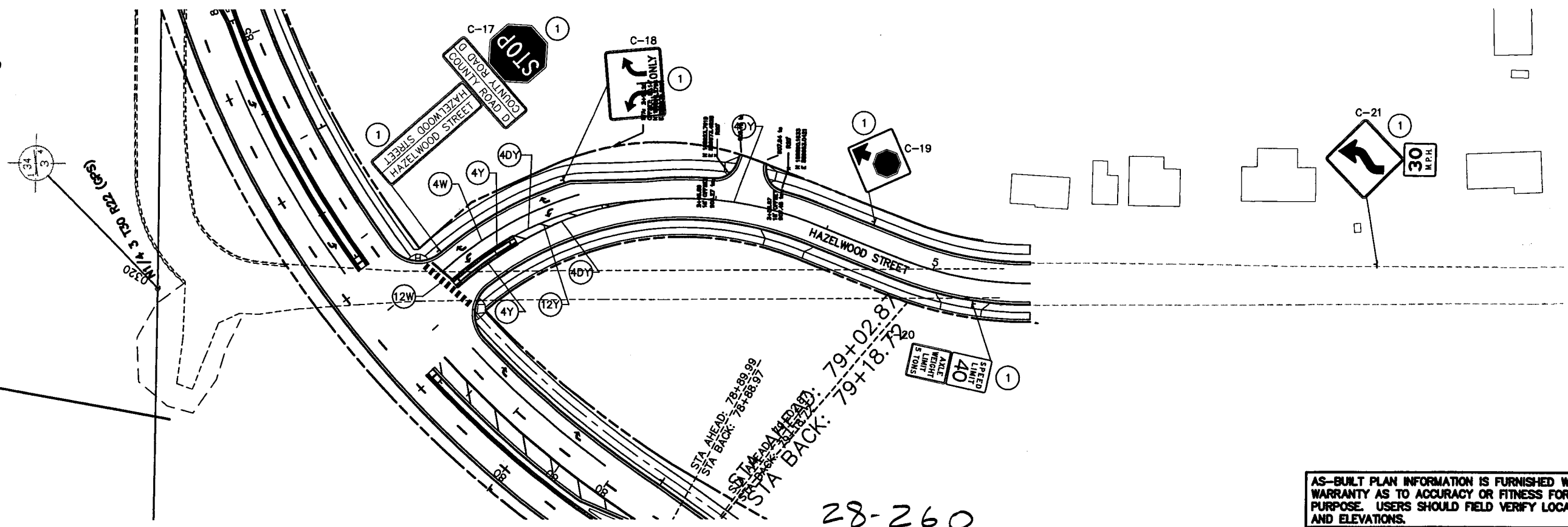
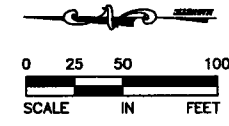
MATCH 100+00



- NOTES:**
- 1 FURNISH AND INSTALL SIGN (BY OTHERS)
 - 2 INSTALL SALVAGED SIGN (BY OTHERS)

- PERMANENT PAVEMENT MARKING SYMBOLS**
- 4W 4" SOLID LINE WHITE - EPOXY
 - 4BW 4" BROKEN LINE WHITE - EPOXY (10' STRIPE, 40' GAP)
 - 4Y 4" SOLID LINE YELLOW - EPOXY
 - 4DY 4" DOUBLE SOLID LINE YELLOW - EPOXY
 - 12Y 12" SOLID LINE YELLOW - EPOXY (45° @ 20' SPACING)
 - 12W 12" STOP LINE WHITE - EPOXY
 - PAVEMENT MESSAGE - POLY PREFORM
 - PEDESTRIAN CROSSWALK - POLY PREFORM

- NOTES:**
- EPOXY BY OTHERS
 - POLY PREFORM BY CONTRACTOR



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28-260

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBUILTS\007-SP04.dwg

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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	DRAWN BY: MRH-PMJ				
	DESIGN BY: SAW				
	CHECKED BY: NCL				
	DWG. NAME: SP04				
	DATE: FEBRUARY 27, 2004				



Thrasher Square
700 Third Street South
Minneapolis, MN 55415
612.370.0700 Tel
612.370.1378 Fax

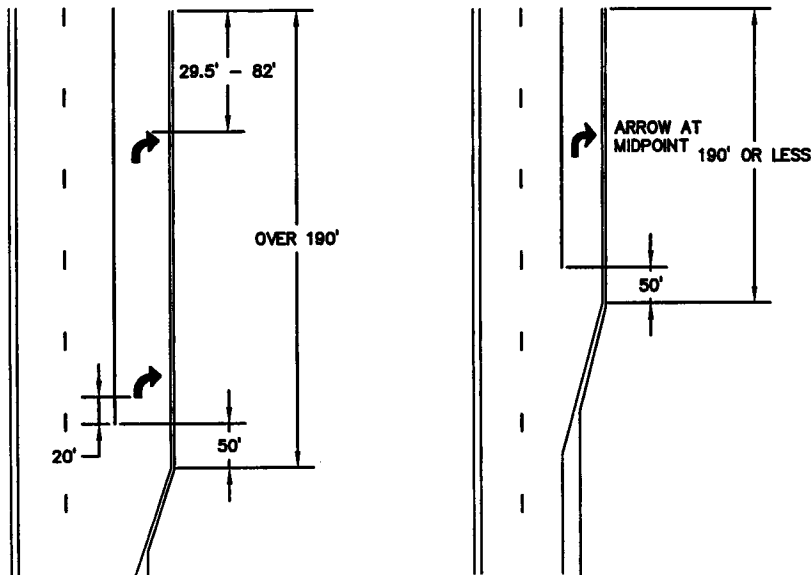
I HEREBY CERTIFY THAT THIS PLAN, SPECIFICATION OR REPORT WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER THE LAWS OF THE STATE OF MINNESOTA.

Karl P. Keel
KARL P. KEEL
DATE: 4/15/2004 MN LIC. NO. 19581

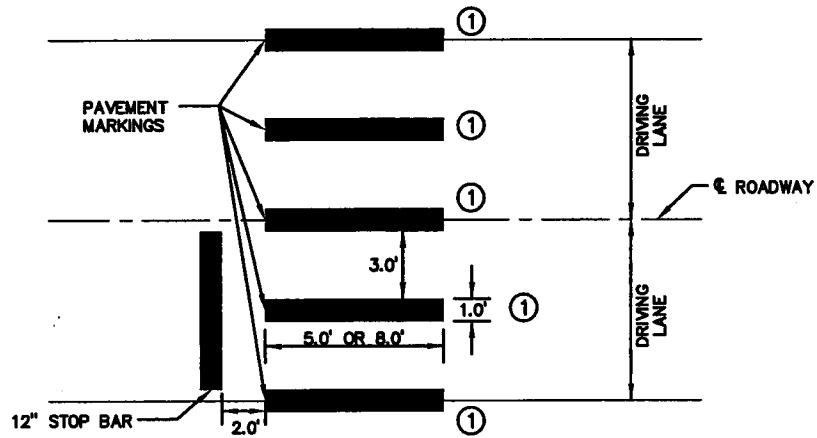
**CITY OF MAPLEWOOD
COUNTY ROAD D**

SIGNING & STRIPING
COUNTY ROAD D - STA. 100+00 TO STA. 109+00
HAZELWOOD STREET - STA. 0+00 TO STA. 5+85.33

CITY PROJECT	02-07	SHEET NO. 49
COUNTY PROJECT		
S.A.P.	138-121-03	99
S.A.P.	138-112-05	

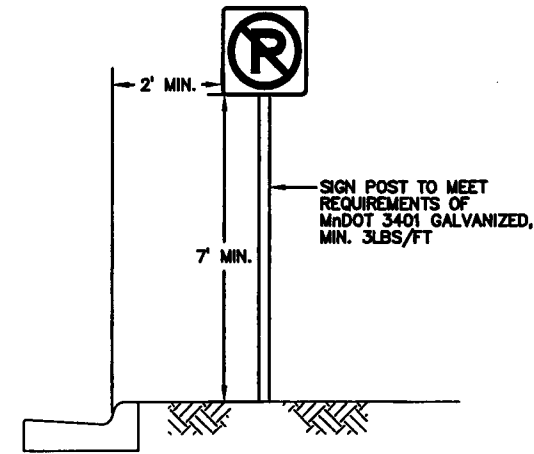


TYPICAL MESSAGE PLACEMENT FOR TURN LANES

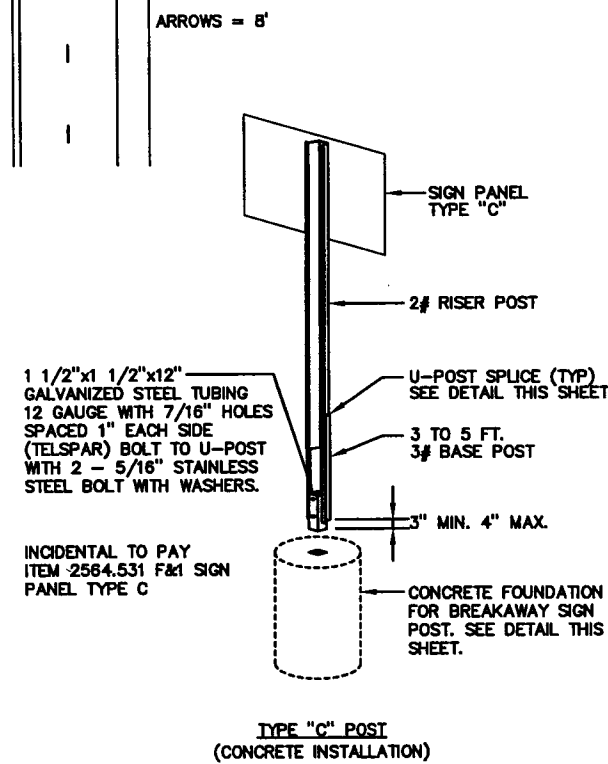


- NOTES:
- ① POLY PREFORM IN AREAS AS SHOWN.
 - ② CONTRACTOR TO PROVIDE A SAMPLE PANEL FOR APPROVAL.

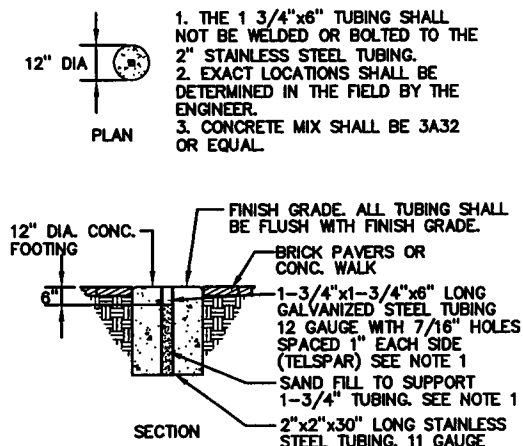
PEDESTRIAN CROSSWALK MARKING



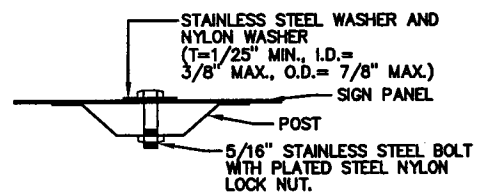
SIGN PANEL LOCATION DETAIL
(BY OTHERS)



TYPE "C" POST
(CONCRETE INSTALLATION)

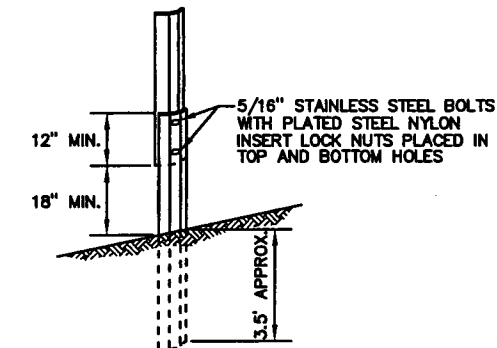


BREAKAWAY SIGN POST FOUNDATION
FOR TYPE "C" SIGNS INSTALLED IN MEDIANS



"U" POST MOUNTING - TYPE "C" SIGN

BREAKAWAY SIGN POST (FOR TYPE "C" SIGNS INSTALLED IN MEDIANS)
(BY OTHERS)



- NOTES:
1. USE 3# RISER STUB POST WITH 2# RISER POSTS. ALL SHALL CONFORM TO MnDOT SPECIFICATION 3401.
 2. MOUNTING (PUNCHING CODE) FOR TYPE "C" SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
 3. ALL RISER (VERTICAL) "U" POSTS SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7" LONG.
 4. USE STAINLESS STEEL 5/16" BOLTS, WASHERS WITH PLATED STEEL NYLON INSERT LOCK NUTS AS SHOWN.
 5. STAINLESS STEEL WASHER WITH THE SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
 6. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MINNESOTA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, INCLUDING "FIELD MANUAL FOR TEMPORARY TRAFFIC CONTROL ZONE LAYOUTS".
 7. ALL TRAFFIC CONTROL DEVICES SHALL HAVE RETROREFLECTIVE SHEETING.

"U" POST SPlice - TYPE "C" POST
(GROUND INSTALLATION)

GENERAL INFORMATION

1. ALL SIGNING AND STRIPING SHALL BE DONE IN ACCORDANCE WITH THE MINNESOTA MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MMUTCD) OR AS DIRECTED BY THE ENGINEER.
2. THE ENGINEER'S INVOLVEMENT IN THE APPLICATION OF THE MATERIAL SHALL BE LIMITED TO FIELD CONSULTING AND INSPECTION.
3. THE MEDIAN STRIPING SHALL CONSIST OF 12-INCH SOLID YELLOW MARKINGS PLACED AT AN ANGLE OF 45-DEGREES AND SPACED AT 20-FEET ON CENTER, ALL PLACED WITHIN THE 4-INCH SOLID YELLOW MARKING
4. EDGE LINES ARE TO BE BROKEN ONLY AT MAJOR INTERSECTIONS WITH PUBLIC ROADS AND AT PRIVATE ENTRANCES ONLY IF THEY ARE CONTROLLED BY A YIELD SIGN, STOP SIGN, OR TRAFFIC SIGNAL. EDGE LINES SHALL NOT BE BROKEN AT DRIVEWAY ENTRANCES TO RESIDENTIAL LOTS. THE BREAK POINT IS TO BE AT THE START OF THE RADIUS FOR THE INTERSECTION OR AT MARKED STOP LINES OR CROSS WALKS.
5. LANE LINES ARE TO BE BROKEN ONLY AT MAJOR INTERSECTIONS.
6. A TOLERANCE OF 1/4-INCH UNDER OR 1/4-INCH OVER THE SPECIFIED WIDTH WILL BE ALLOWED FOR STRIPING PROVIDED THE VARIATION IS GRADUAL AND DOES NOT DETRACT FROM THE GENERAL APPEARANCE. BROKEN LINE SEGMENTS MAY VARY UP TO ONE-HALF FOOT FROM THE SPECIFIED LENGTHS PROVIDED THE OVER AND UNDER VARIATIONS ARE REASONABLY COMPENSATORY. ALIGNMENT DEVIATIONS FROM THE CONTROL GUIDE SHALL NOT EXCEED 1 INCH.
7. DOUBLE YELLOW LINES AND SOLID YELLOW LINES ADJACENT TO DASHED YELLOW OR SOLID YELLOW LINES SHALL HAVE A SEPARATION OF 4-INCHES.
8. PERMANENT SIGNAGE IS TO BE FURNISHED AND INSTALLED BY OTHERS
9. PERMANENT EPOXY PAINT IS TO BE APPLIED BY OTHERS
10. PERMANENT POLY PREFORM IS TO BE FURNISHED AND APPLIED BY CONTRACTOR

PAINT/EPOXY

1. THE ROAD SURFACE SHALL BE CLEANED AT THE DIRECTION OF THE ENGINEER JUST PRIOR TO APPLICATION. PAVEMENT CLEANING SHALL CONSIST OF AT LEAST BRUSHING WITH A ROTARY BROOM (NON METALLIC) OR AS RECOMMENDED BY THE MATERIAL MANUFACTURER AND ACCEPTABLE TO THE ENGINEER.
2. THE PAINT/EPOXY MARKINGS APPLICATION SHALL IMMEDIATELY FOLLOW THE PAVEMENT CLEANING.
3. PERMANENT PAVEMENT MARKINGS SHALL NOT BE PLACED OVER TEMPORARY MARKINGS.

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28-260



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612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL

DATE: 4/15/2004 MN LIC. NO. 19581

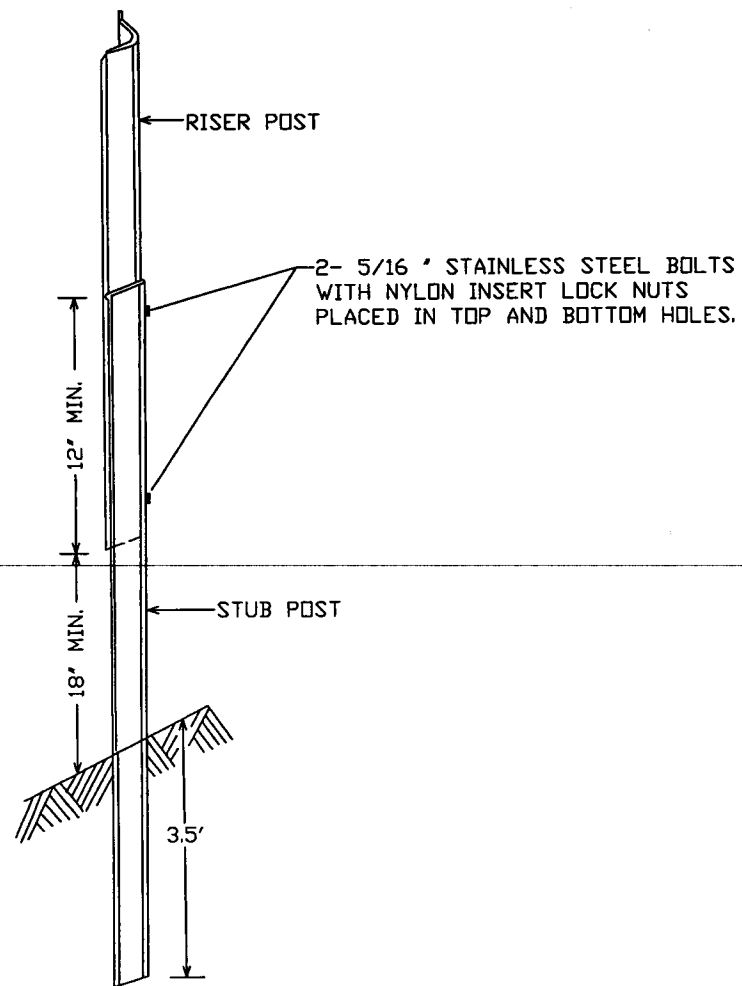
CITY OF MAPLEWOOD
COUNTY ROAD D

SIGNING AND STRIPING DETAILS

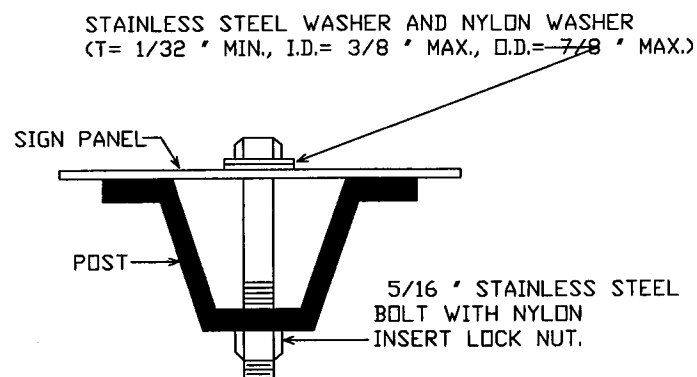
CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		50
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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	DRAWN BY: MRH-PMJ				
	DESIGN BY: NCL				
	CHKD. BY: NCL				
	DWG. NAME: SP05				
	DATE: FEBRUARY 27, 2004				

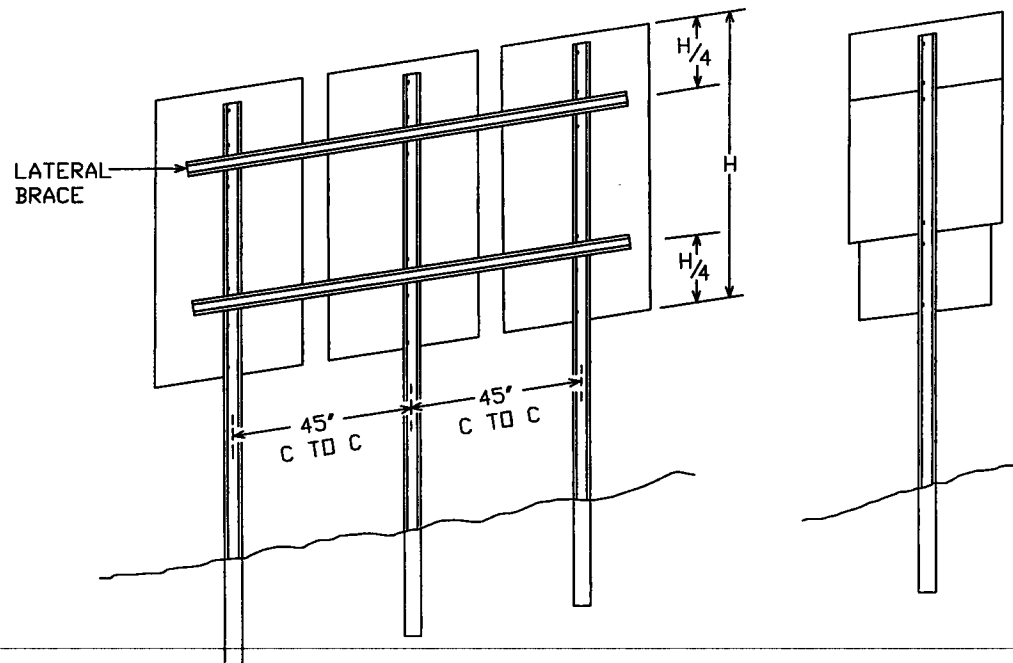
TYPE "C" & "D" POST



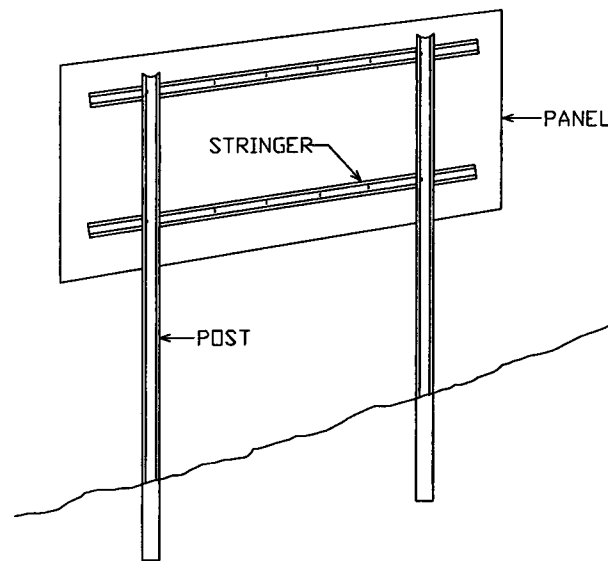
"U POST" SPLICE



"U POST" MOUNTING
TYPE "C" SIGNS



TYPICAL TYPE "C" INSTALLATIONS



TYPICAL TYPE "D" INSTALLATION

NOTES:

1. USE 3# STUB POSTS, RISER POSTS, STRINGERS, KNEE BRACES, LATERAL BRACES AND KNEE BRACE STUB POSTS. ALL SHALL CONFORM TO MN/DOT 3401.
2. FOR TYPE "D" SIGN POSTS LENGTHS AND SPACINGS, SEE SIGN DATA SHEET.
3. TYPE "D" SIGN PANELS SHALL BE BOLTED TO STRINGERS AT 24" MAXIMUM INTERVALS IN ACCORDANCE WITH TYPE "D" STRINGER AND PANEL-JOINT DETAIL (SEE STANDARD SIGNS MANUAL).
4. MOUNTING (PUNCHING CODE) FOR TYPE "C" SIGN PANELS SHALL BE AS INDICATED IN THE STANDARD SIGNS MANUAL UNLESS OTHERWISE SPECIFIED.
5. ALL RISER (VERTICAL) "U POSTS" SHALL BE SPLICED. DRIVEN STUB POSTS SHALL BE AT LEAST 7' LONG.
6. USE STAINLESS STEEL 5/16" BOLTS, WASHERS, AND NYLON INSERT LOCK NUTS AS SHOWN FOR ALL GROUND MOUNTED AND OVERHEAD MOUNTED SIGNS.
7. STAINLESS STEEL WASHER WITH SAME DIMENSIONS SHALL BE PROVIDED BETWEEN ALL NYLON WASHERS AND BOLT HEADS.
8. BRACING STUBS SHALL BE NO MORE THAN 4" ABOVE GROUND AND EMBEDDED AT LEAST 3 1/2'.
9. A-FRAME BRACKET SHALL BE STEEL CONFORMING TO MN/DOT 3306 AND GALVANIZED IN ACCORDANCE WITH MN/DOT 3394.
10. COLLARS SHALL BE USED TO SHIM OVERLAYS AND DEMOUNTABLE LEGEND AWAY FROM PANEL WHERE INTERFERENCE WITH BOLT HEADS IS ENCOUNTERED. MN/DOT 3352.2A5.
11. 2 AND 3 POST TYPE "C" SIGNS SHALL BE REINFORCED WITH AT LEAST ONE LATERAL BRACE. INSTALLATIONS WHERE THE TOTAL PANEL HEIGHT IS 60" OR MORE SHALL HAVE TWO LATERAL BRACES LOCATED APPROXIMATELY AT THE QUARTER POINTS.
12. WHERE 2 OR MORE SINGLE POST SIGNS (TYPE "C") ARE MOUNTED SIDE BY SIDE, THEY SHALL BE REINFORCED Laterally BY AT LEAST 2 POST SECTIONS, BOLTED AT EACH POST AND LOCATED APPROXIMATELY AT THE QUARTER POINTS AS SHOWN IN SKETCH.

TYPE C & D SIGN
STRUCTURAL DETAILS

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28-260



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Karl P. Keel
KARL P. KEEL

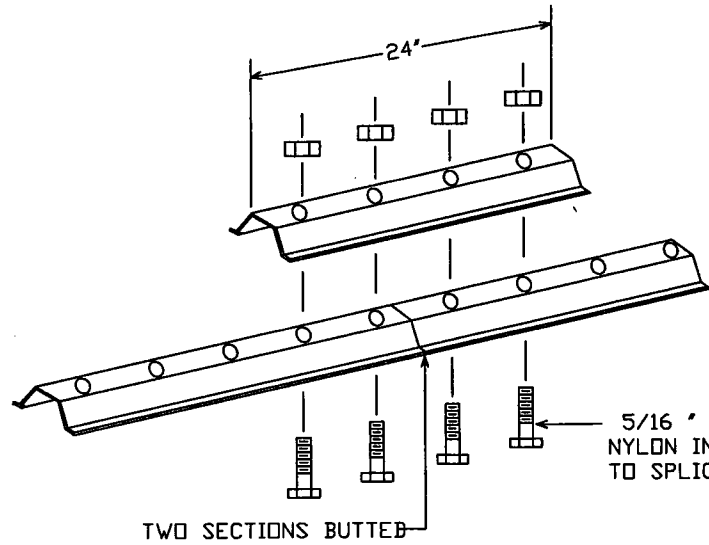
DATE: 4/15/2004 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

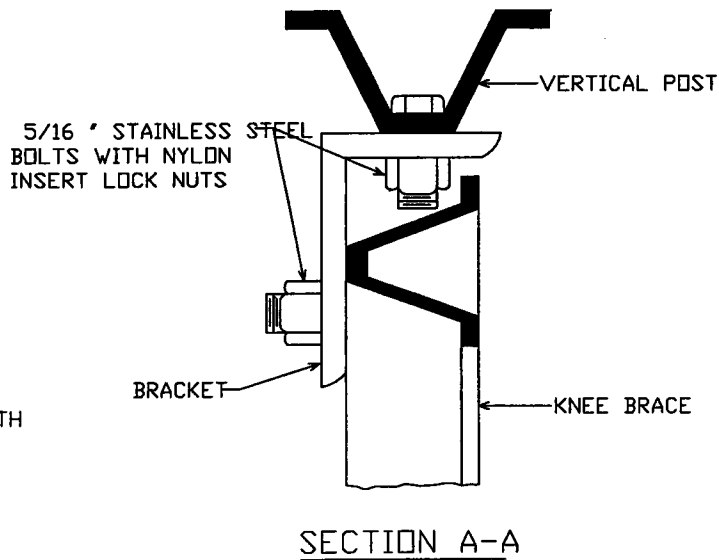
SIGNING DETAILS

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		51
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

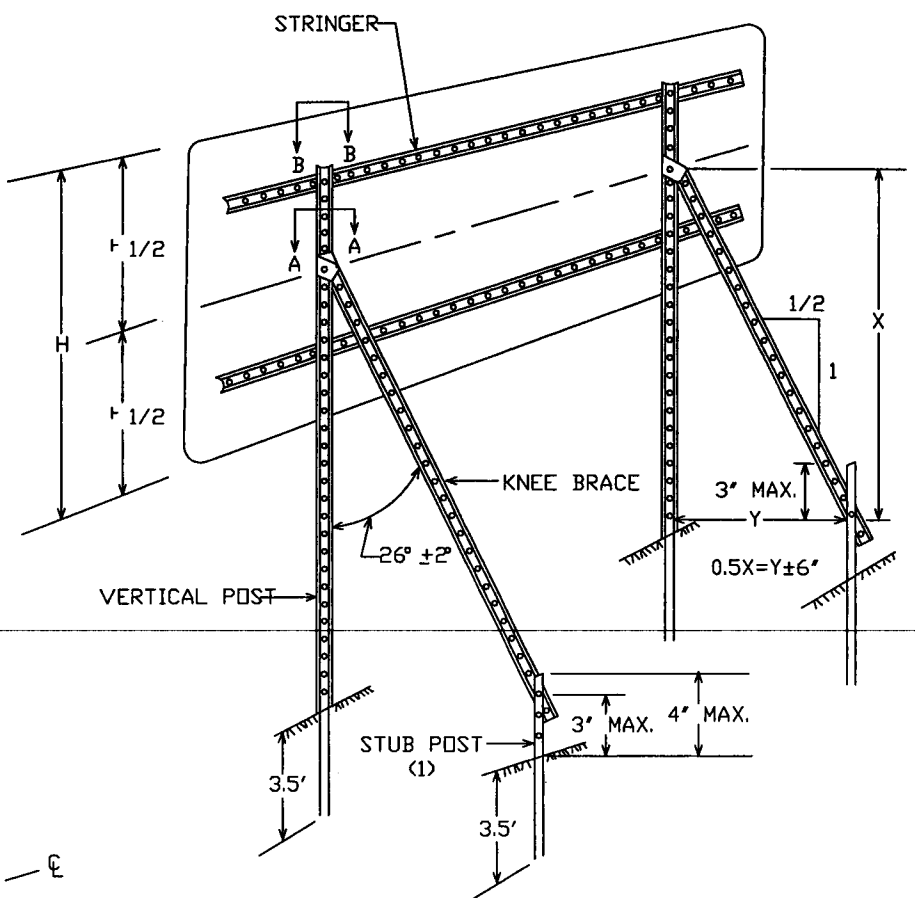
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DRAWN BY:	DESIGN BY:				
MRH-PMJ	NCL				
CHECKED BY:	DWG. NAME:				
NCL	SP06				
DATE:					
FEBRUARY 27, 2004					



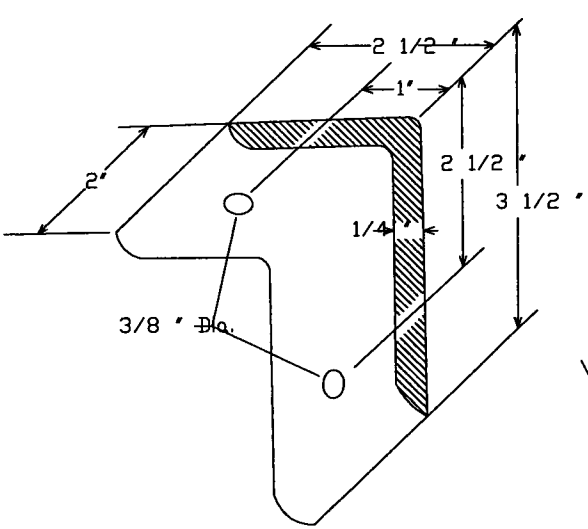
LATERAL BRACE OR STRINGER
SPLICE DETAIL (EXPLODED VIEW)



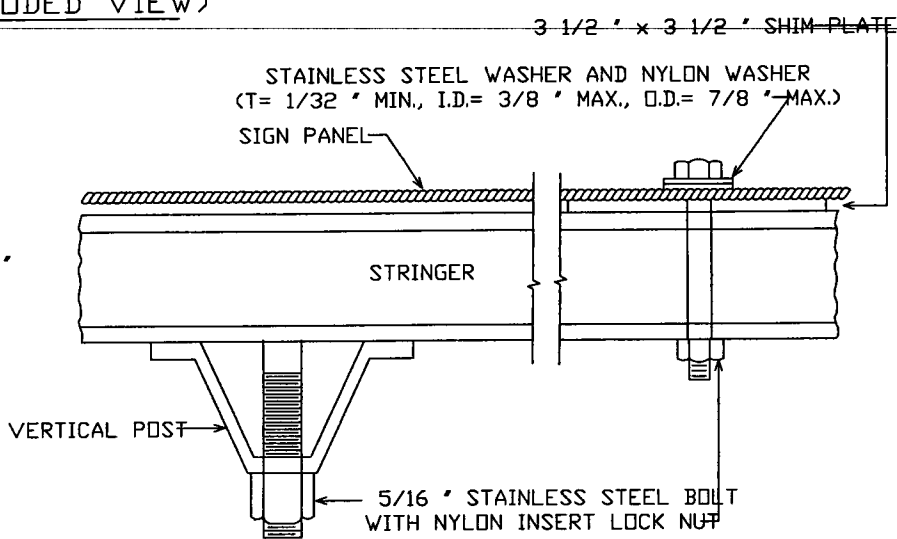
SECTION A-A



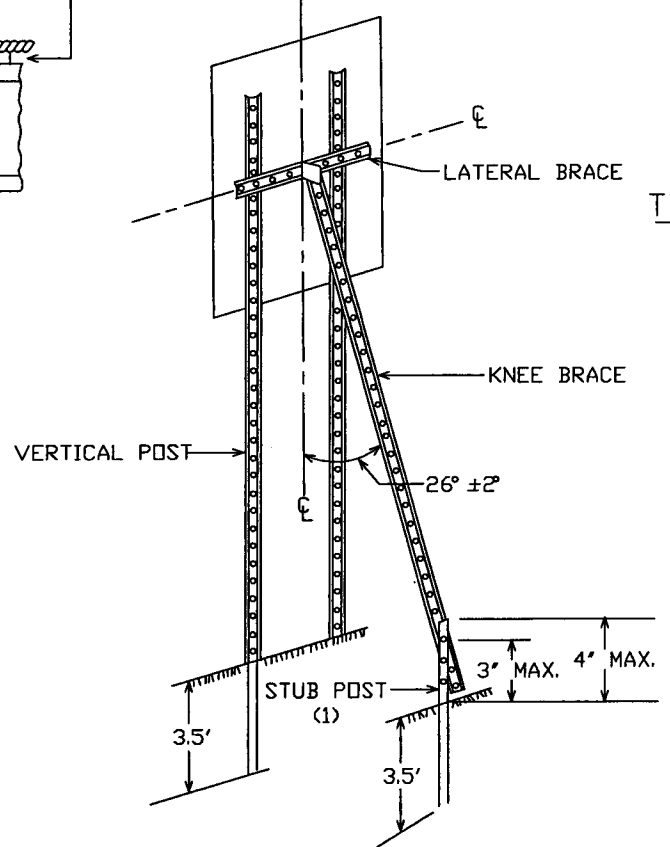
TYPICAL "A-FRAME" INSTALLATION
TYPE "D" SIGNS



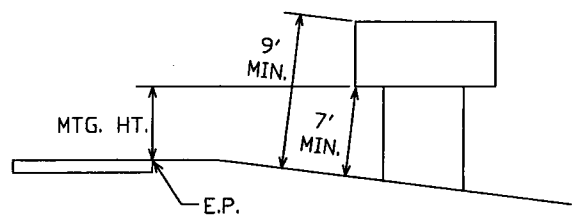
A-FRAME BRACKET
(STEEL MN/DOT 3306 GALVANIZED PER MN/DOT 3394)



SECTION B-B

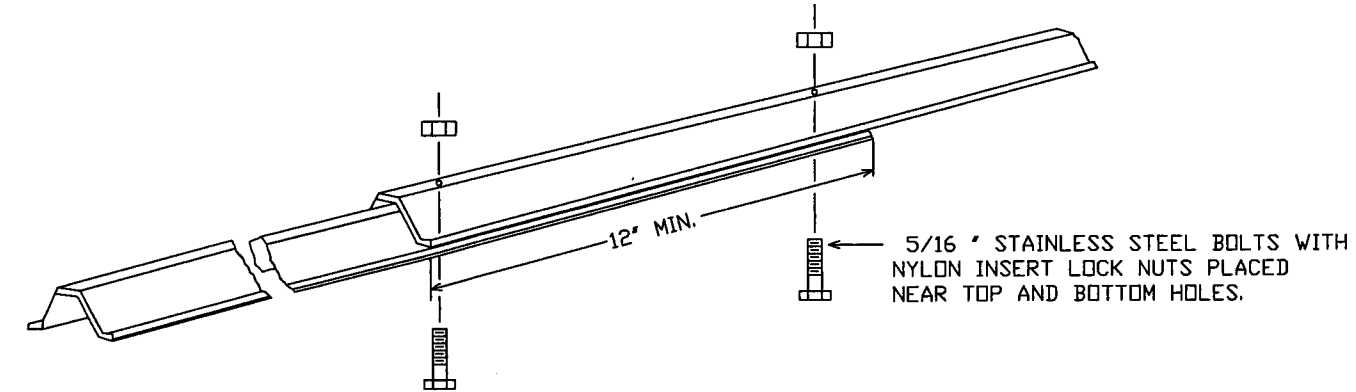


TYPICAL "A-FRAME" INSTALLATION
TYPE "C" SIGNS



TYPICAL MOUNTING

(1) OFFSET STUB POST 1' TOWARD ROADWAY
RELATIVE TO VERTICAL POST.



KNEE BRACE SPLICE

28-260

TYPE C & D SIGN
STRUCTURAL DETAILS

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PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\007-ASBUILTS\007-SP07.dwg

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY:	MRH-PMJ	DESIGN BY:	NCL			
CHKD. BY:	NCL	DWG. NAME:	SP07			
DATE:	FEBRUARY 27, 2004					



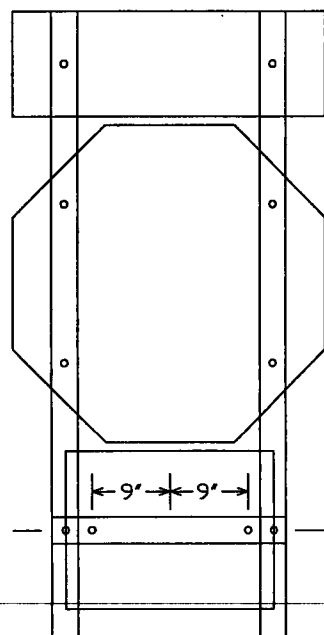
Thresher Square
700 Third Street South
Minneapolis, MN 55415
612.370.0700 Tel
612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 4/15/2004 MN LIC. NO. 19881

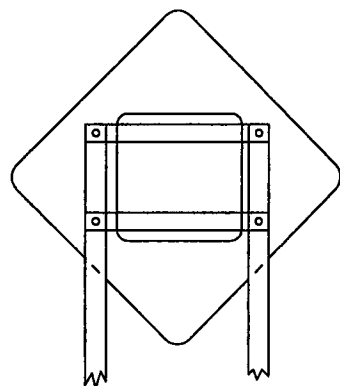
CITY OF MAPLEWOOD
COUNTY ROAD D
SIGNING DETAILS

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		52
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

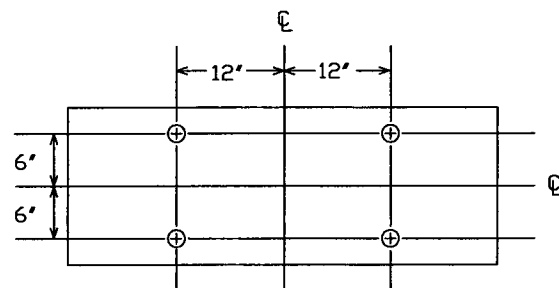
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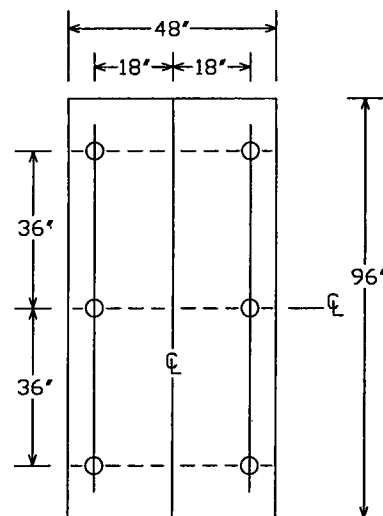
R6-1, R1-1 & (R6-3 OR R6-3a)
MOUNTING



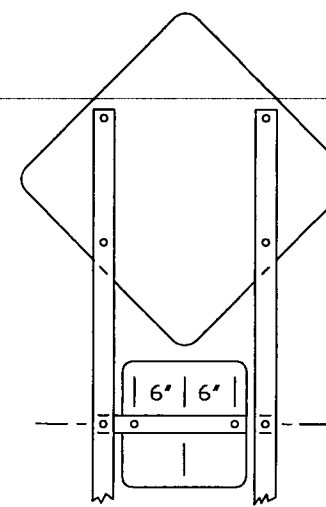
BACK TO BACK MOUNTING
OF R4-7 AND W9-2



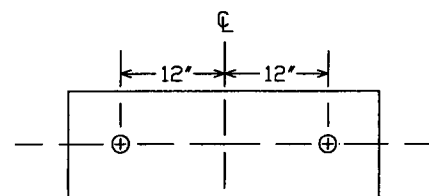
PUNCHING FOR R6-1(48"x18")



PUNCHING FOR R2-4a
SPEED LIMIT



(W1-1, W1-2, W1-3, W1-4 OR W1-5) & W13-1
MOUNTING



PUNCHING FOR R6-1(36"x12")

28-260

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XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
22x34bdr	43932-007	1	BAC	1/11/2005	AS BUILTS
	DRAWN BY: JCD				
	DESIGN BY: NCL				
	CHKD. BY: NCL				
	DWG. NAME: SPO8				
	DATE: FEBRUARY 27, 2004				

URS

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612.370.1378 Fax

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Karl P. Keel
KARL P. KEEL

DATE: 4/15/2004 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

SIGNING DETAILS

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.

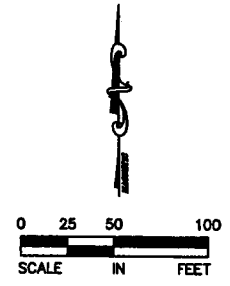
53

99

PLOT DATE: May 04, 2006 11:03am DISK FILE NAME: (16.1) R:\49392007\PLAN-SHT\007-pin-sht\007-TE01.dwg





BEGIN CONSTRUCTION
 BEGIN S.A.P. 138-121-03
 COUNTY ROAD D
 WB STA. 52+76.24

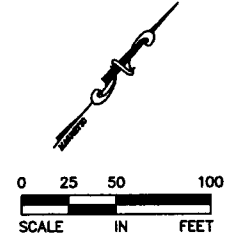
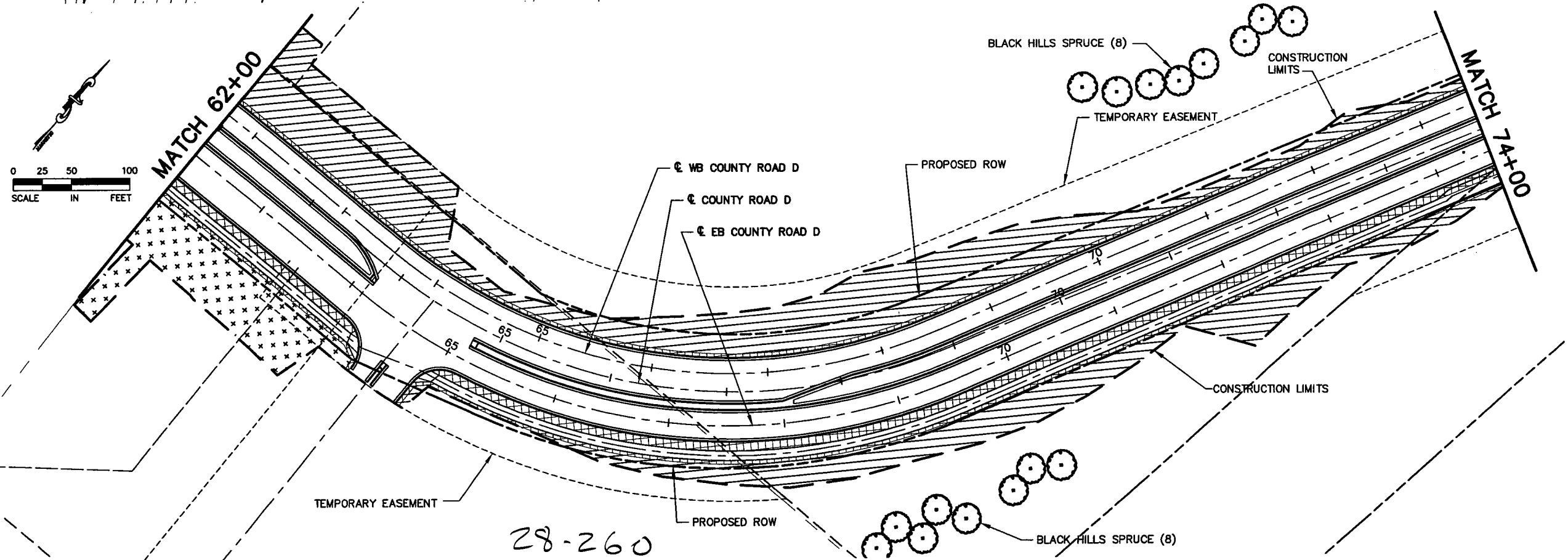
BEGIN CONSTRUCTION
 BEGIN S.A.P. 138-121-03
 COUNTY ROAD D
 EB STA. 53+24.18



MATCH 62+00

LEGEND

-  SOD - TYPE SALT RESISTANT
-  SEED MIXTURE 60B
-  SEED MIXTURE 30B F-3 OR 330 DRY FORBS
-  CONSTRUCTION LIMITS



XREF DRAWINGS

007-con-llm
007-TREE
007-TURF
007-ALI
007-ESM
007-PCO
007-ESU-CTY-D
007-ETO
22x34bdr

DESIGN FILE: 43932-007	
DRAWN BY: JCD	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: TE01
DATE: FEBRUARY 27, 2004	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13
2	JCD	7/8/05	REVISED CONSTRUCTION LIMITS
3	BJK	5/4/06	REVISED SEEDING
4	JCD	01/08/07	AS-BUILT



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Karl P. Keel
 KARL P. KEEL
 DATE: 4/27/2005 MN LIC. NO. 19681

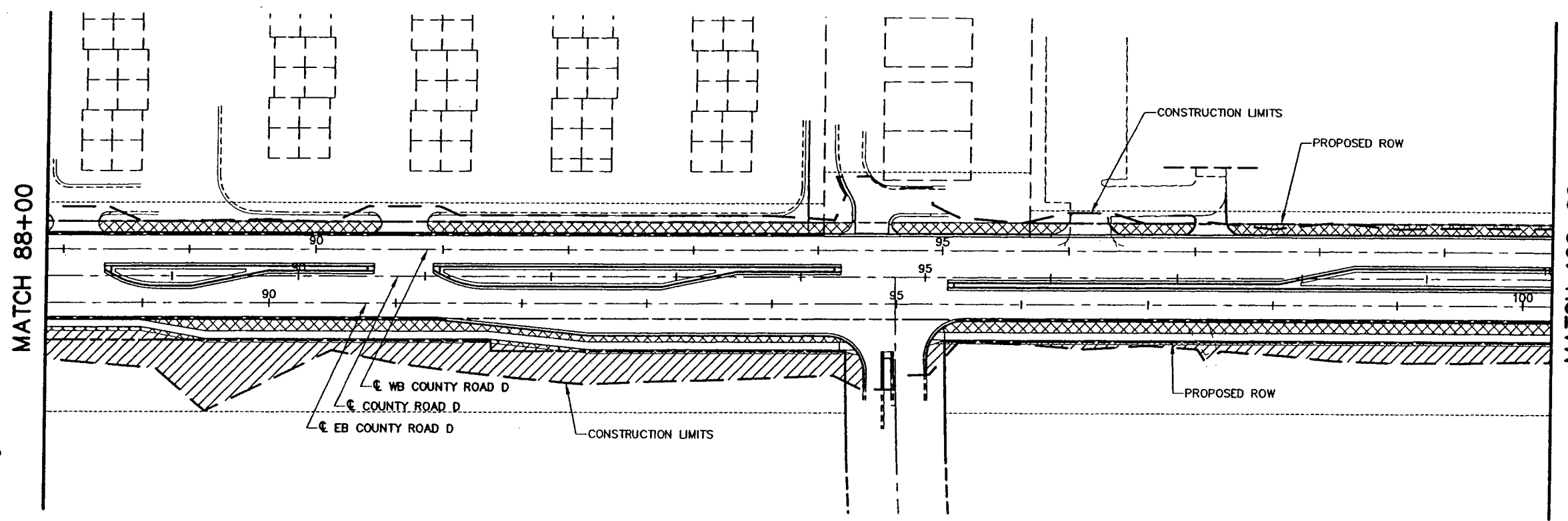
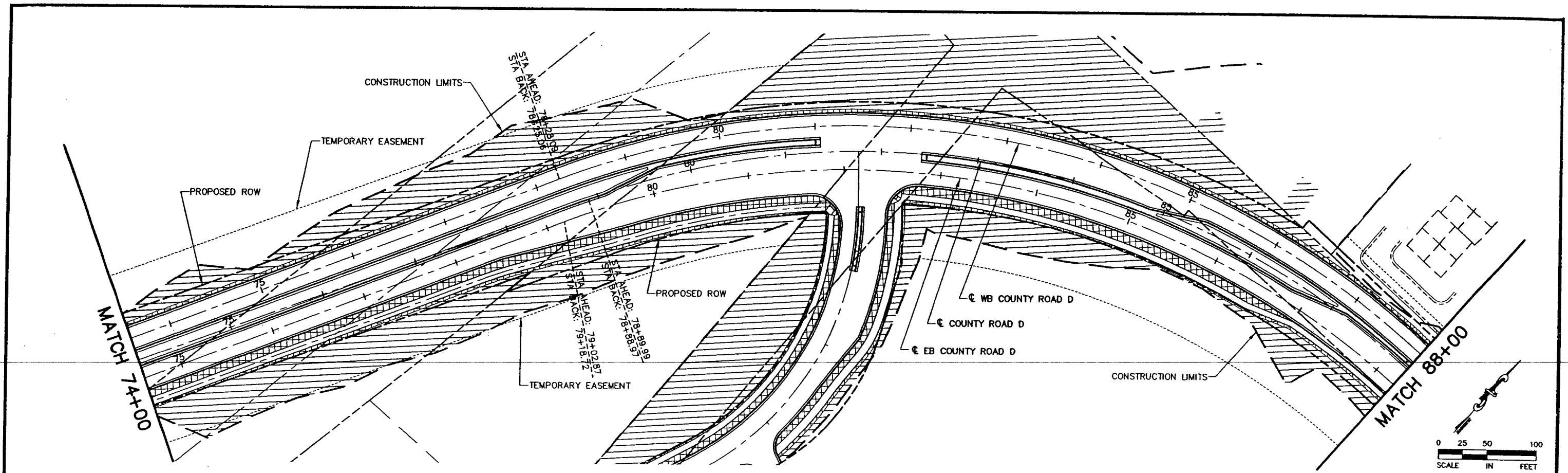
CITY OF MAPLEWOOD
COUNTY ROAD D




RESTORATION PLAN
 COUNTY ROAD D
 STATION 53+00 TO STATION 74+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
54
99

PLOT DATE: Apr 28, 2005 9:12am DISK FILE NAME: (15.06) R:\43932007\PLAN-SHT\007-pin-ant\007-TE02.dwg



- LEGEND**
-  SOD - TYPE SALT RESISTANT
 -  SEED MIXTURE 60B
 -  CONSTRUCTION LIMITS

28-260

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-con-lim	43932-007	1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
007-TURF		2	NCL	1/9/07	AS-BUILT
007-PCO					
007-ESM					
urs-mpwd-fplat					
007-ESU-CITY-D					
007-ALI					
007-CTO					
22x34bdr					



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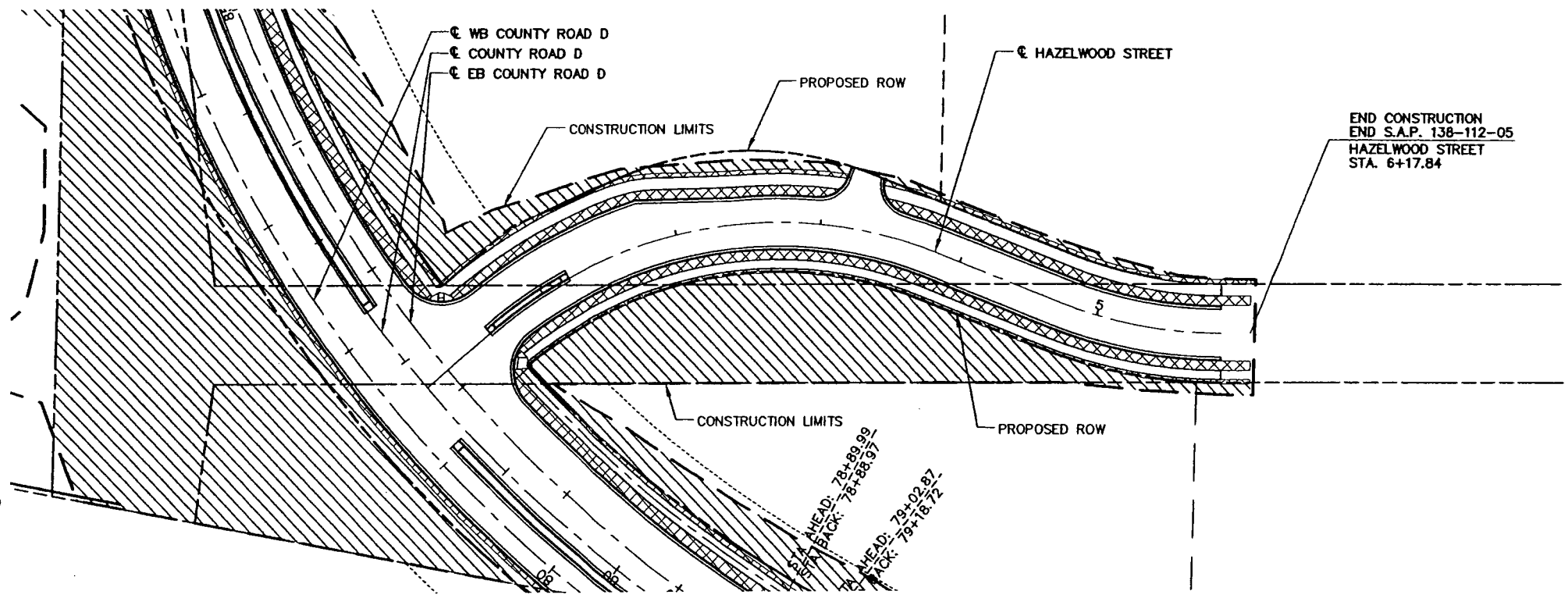
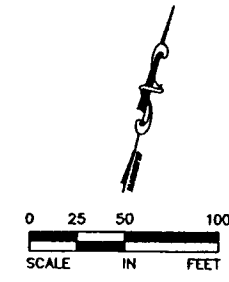
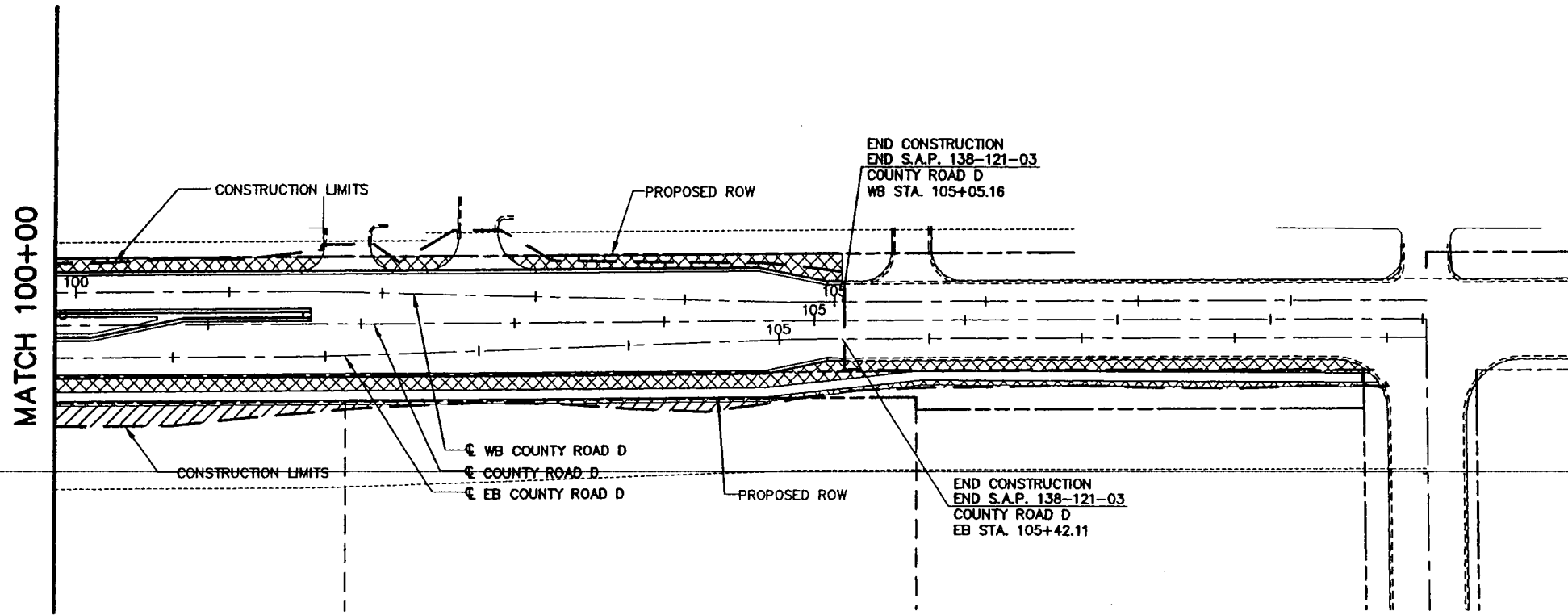
K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

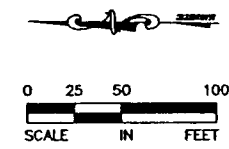
RESTORATION PLAN
COUNTY ROAD D
STATION 74+00 TO STATION 100+00

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		55
S.A.P.	138-121-03	
S.A.P.	138-112-05	

PLOT DATE: Apr 28, 2005 9:11am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-TE03.dwg



- LEGEND**
- SOD - TYPE SALT RESISTANT
 - SEED MIXTURE 60B
 - CONSTRUCTION LIMITS



28-260

XREF DRAWINGS

007-con-lim
007-TURF
urs-mpwd-plot
007-ESU-CITY-D
007-PCO
007-ESM
007-AJ
007-ETO
22x34bdr

DESIGN FILE: 4.3932-007	
DRAWN BY: JCD	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: TE03
DATE: FEBRUARY 27, 2004	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	4/21/05	REVISED PER CHANGE ORDER #13.
2	JCD	1/9/07	AS-BUILT

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K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

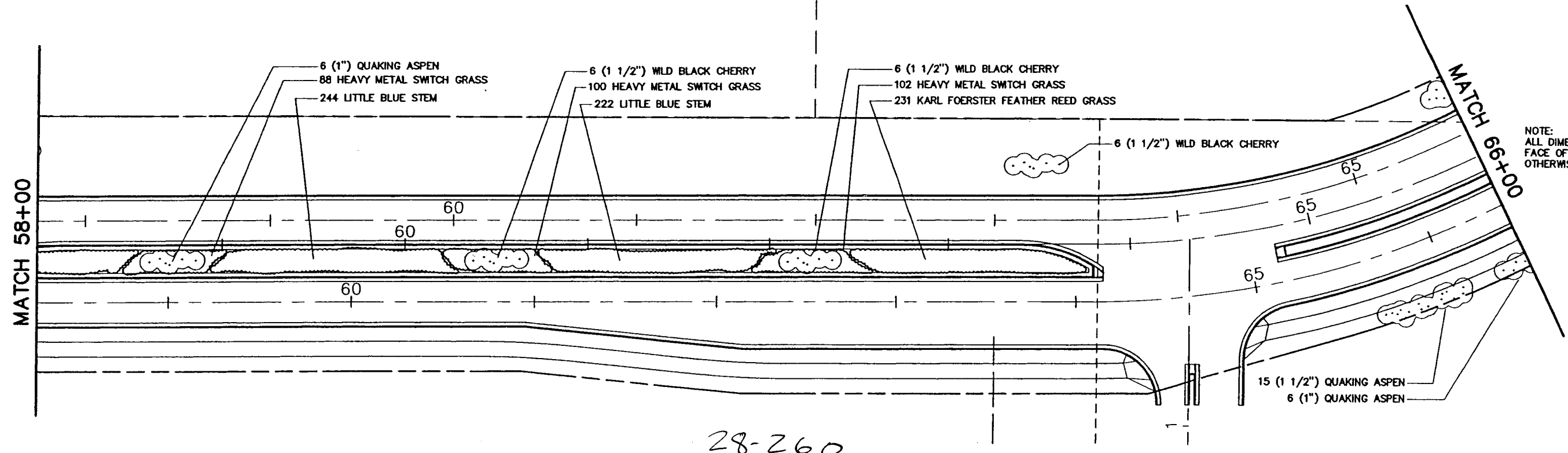
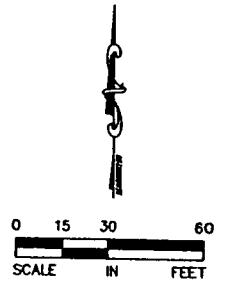
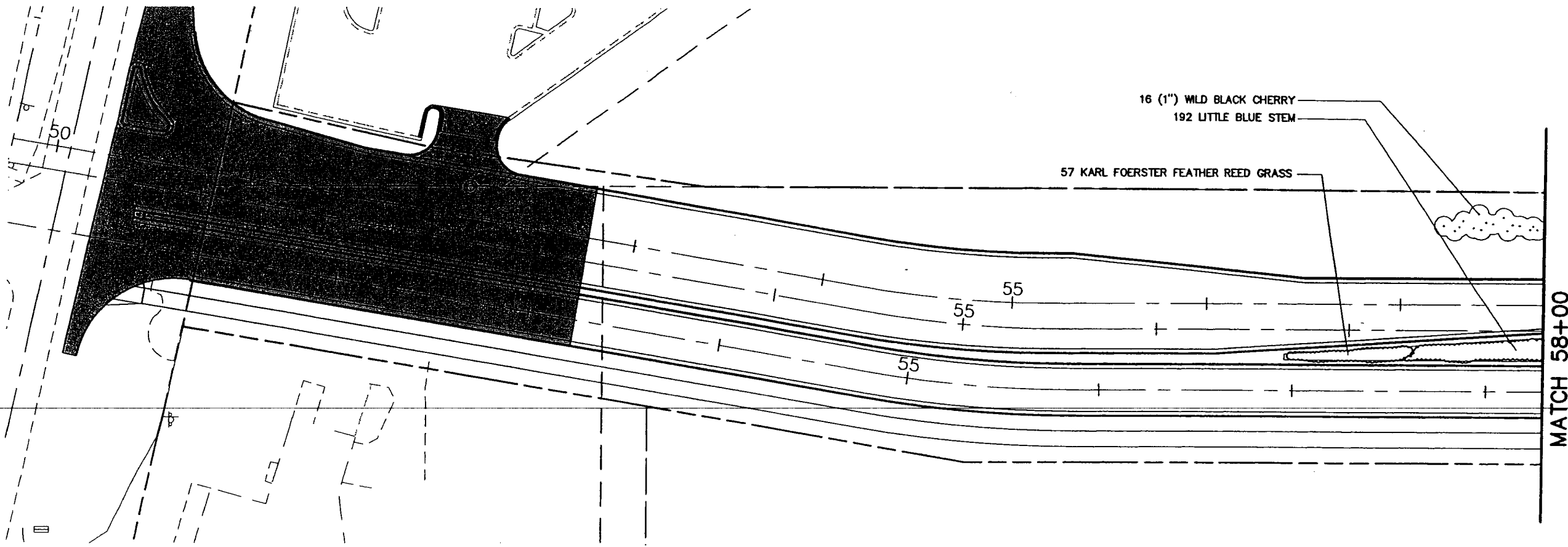
**CITY OF MAPLEWOOD
COUNTY ROAD D**

RESTORATION PLAN
COUNTY ROAD D - STA. 100+00 TO STA. 109+00
HAZELWOOD STREET STA. 0+00 TO STA. 5+85.33

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
56
99

PLOT DATE: Apr 26, 2005 5:18pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-LS01.dwg



NOTE: ALL DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE.

28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-LSC		43932-007	1	SCW	4/21/05	REVISED PER CHANGE ORDER #13
007-ALJ			2	SCW	1/11/07	AS-BUILT
007-ESM						
007-PCO						
007-ESU-CTY-D						
007-ETO						
22x34bdr						
DRAWN BY:	DESIGN BY:					
CHKD. BY:	DWG. NAME:					
DATE:						



Thrasher Square
700 Third Street South
Minneapolis, MN 55416
612.370.0700 Tel
612.370.1378 Fax

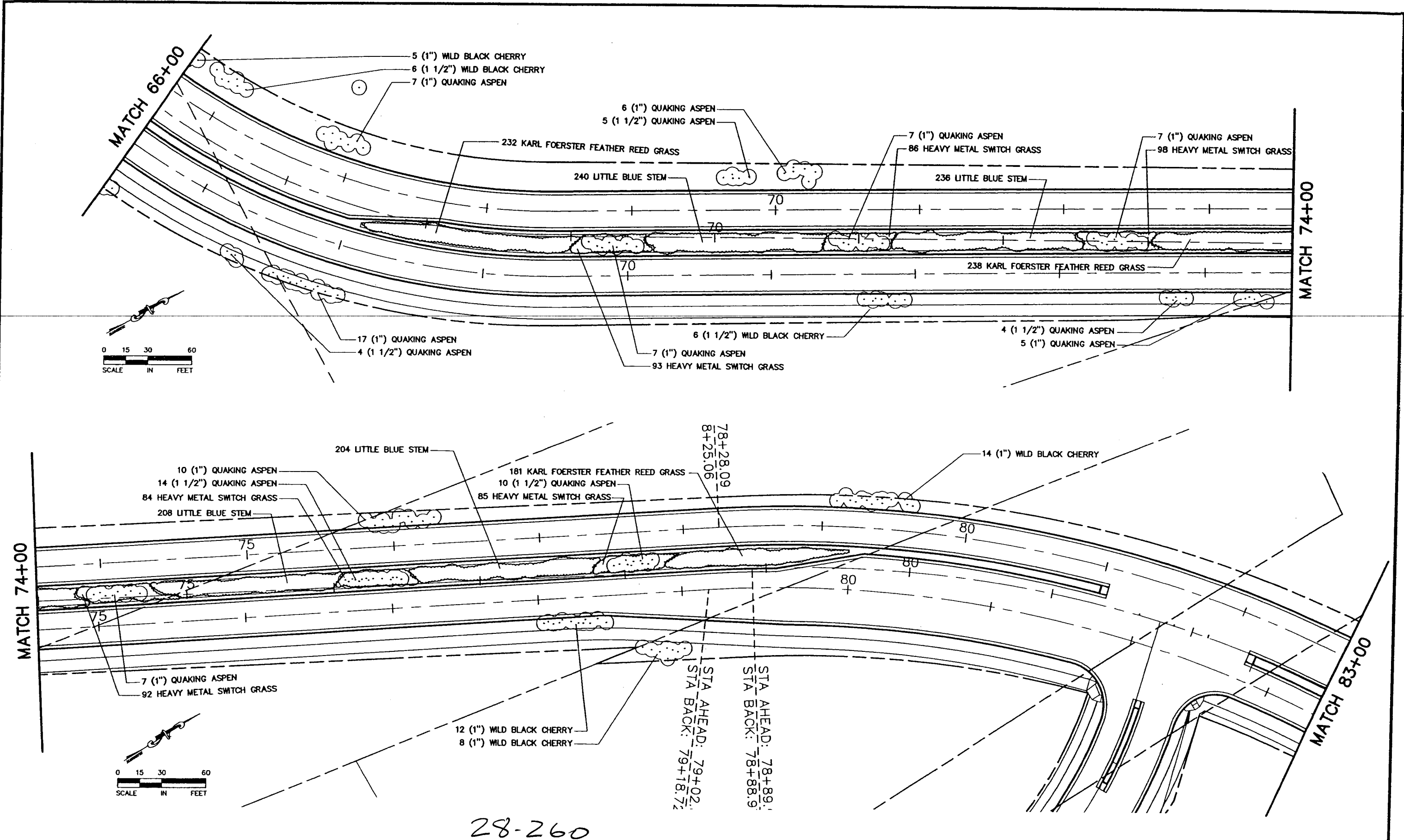
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Steven C. Wyczański
STEVEN C. WYCZAŃSKI
DATE: 4/27/2005 MN LIC. NO. 6958

CITY OF MAPLEWOOD
COUNTY ROAD D
LANDSCAPE PLAN
COUNTY ROAD D

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
57
99

PLOT DATE: Apr 26, 2005 5:18pm DISK FILE NAME: (15.06) R:\9392007\PLAN-SHT\007-pln-sht\007-LS02.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
007-LSC	007-EUT	43932-007	1	SCW	4/21/05	REVISED PER CHANGE ORDER #13
007-PCO	007-ES4		2	SCW	1/9/07	AS-BUILT
007-ES4	007-mpld-plot					
007-ESU-CITY-D	007-AJ					
007-ETO	2x34bdr					
DRAWN BY: RWK		DESIGN BY: SCW				
CHKD. BY: RWK		DWG. NAME: LS02				
DATE: MAY 4, 2004						



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612.370.1378 Fax

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Steven C. Myczajski
STEVEN C. MYCZAJSKI
DATE: 4/27/2005 MN LIC. NO. 16958

CITY OF MAPLEWOOD
COUNTY ROAD D

LANDSCAPE PLAN
COUNTY ROAD D

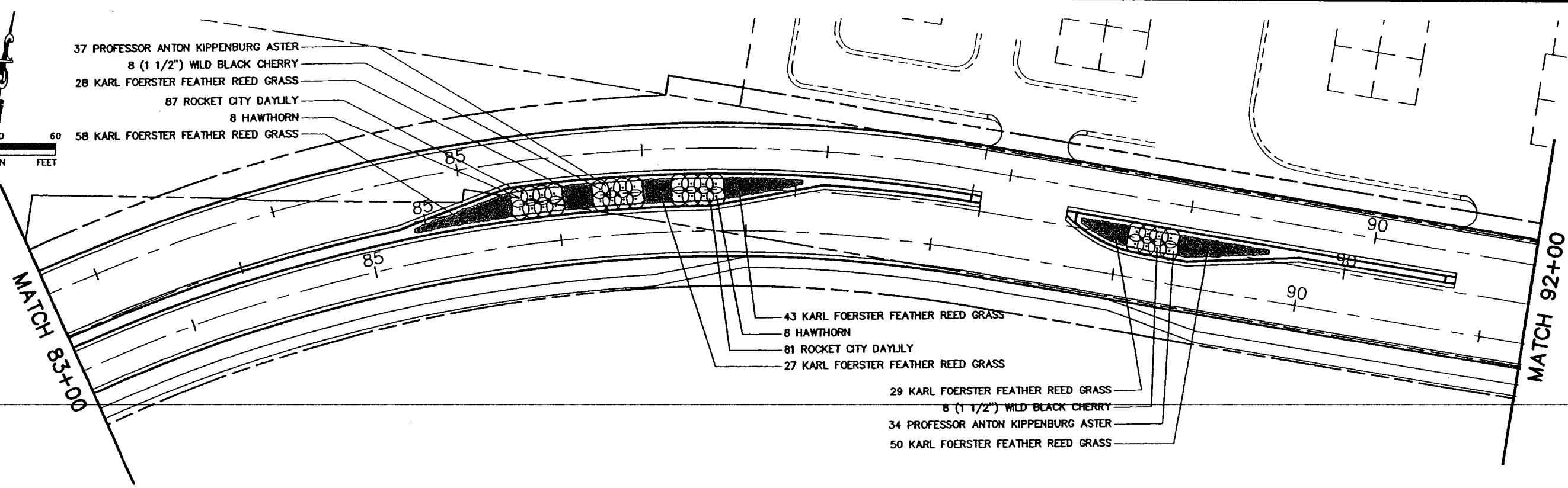
CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		58
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99

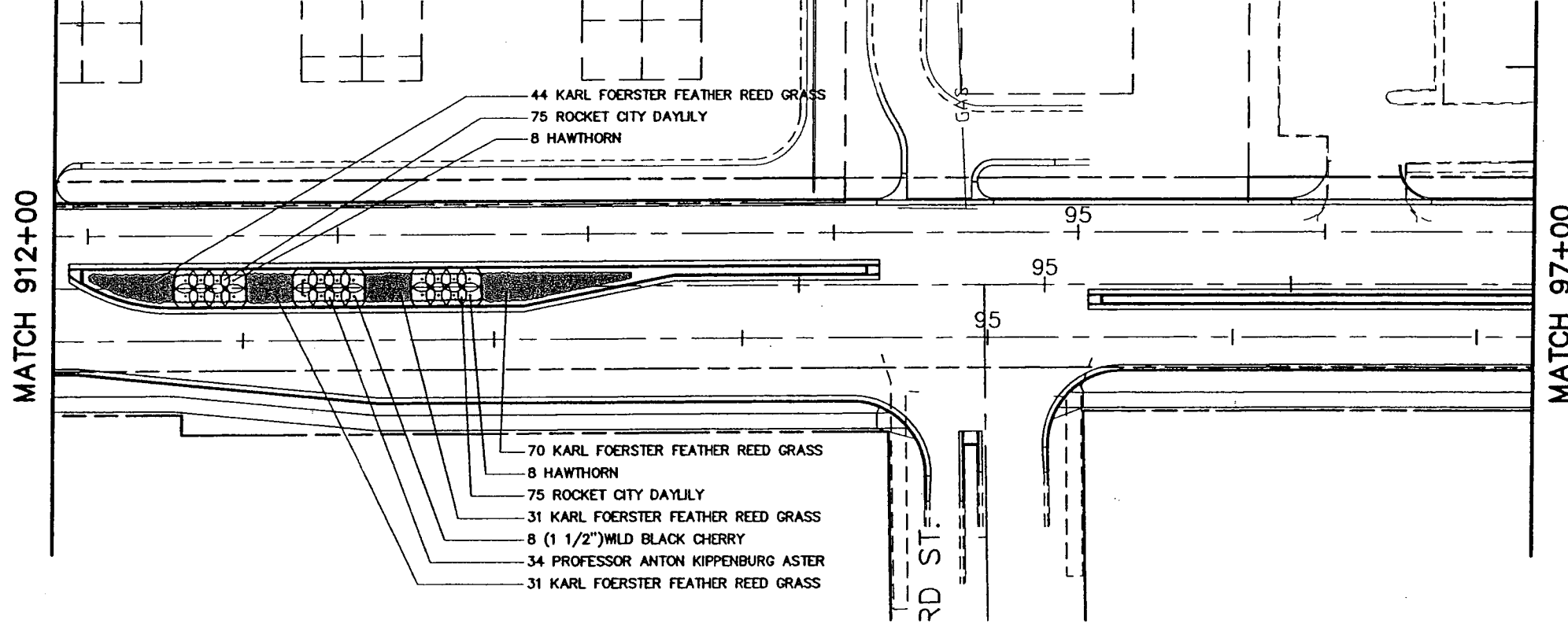
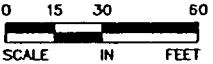
PLOT DATE: Apr 27, 2005 4:18pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-LS03.dwg



- 37 PROFESSOR ANTON KIPPENBURG ASTER
- 8 (1 1/2") WILD BLACK CHERRY
- 28 KARL FOERSTER FEATHER REED GRASS
- 87 ROCKET CITY DAYLILY
- 8 HAWTHORN
- 58 KARL FOERSTER FEATHER REED GRASS



- 43 KARL FOERSTER FEATHER REED GRASS
- 8 HAWTHORN
- 81 ROCKET CITY DAYLILY
- 27 KARL FOERSTER FEATHER REED GRASS
- 29 KARL FOERSTER FEATHER REED GRASS
- 8 (1 1/2") WILD BLACK CHERRY
- 34 PROFESSOR ANTON KIPPENBURG ASTER
- 50 KARL FOERSTER FEATHER REED GRASS



- 44 KARL FOERSTER FEATHER REED GRASS
- 75 ROCKET CITY DAYLILY
- 8 HAWTHORN

- 70 KARL FOERSTER FEATHER REED GRASS
- 8 HAWTHORN
- 75 ROCKET CITY DAYLILY
- 31 KARL FOERSTER FEATHER REED GRASS
- 8 (1 1/2") WILD BLACK CHERRY
- 34 PROFESSOR ANTON KIPPENBURG ASTER
- 31 KARL FOERSTER FEATHER REED GRASS

28-260

XREF DRAWINGS	
007-LSC	
007-PCD	
007-ESM	
rs-mp1wd-plot	
007-ESU-CTY-D	
007-AJ	
007-ETO	
2x34bdr	

DESIGN FILE: 43932-007	
DRAWN BY: RWK	DESIGN BY: SCW
CHKD. BY: RWK	DWG. NAME: LS03
DATE: MAY 4, 2004	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SCW	4/21/05	REVISED PER CHANGE ORDER #13
2	YEO	1/9/07	AS-BUILT



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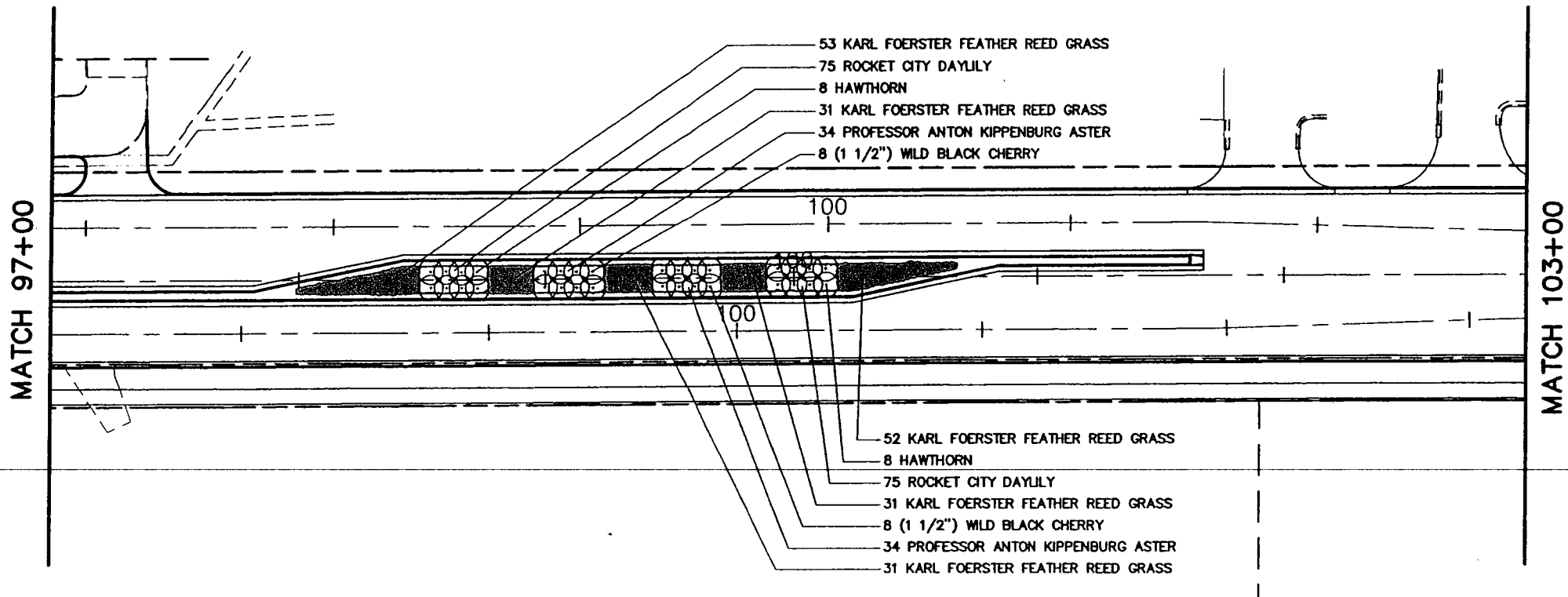
Steven E. Wyczauski
STEVEN E. WYCZAUSKI
DATE: 4/27/2005 MN LIC. NO. 16958

CITY OF MAPLEWOOD
COUNTY ROAD D

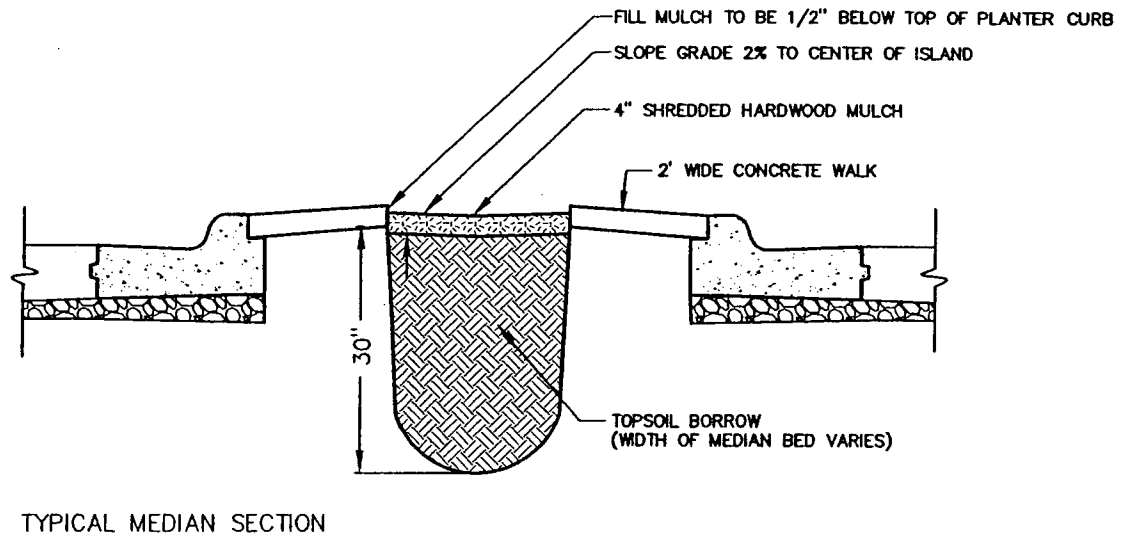
LANDSCAPE PLAN
COUNTY ROAD D

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.	59
	99



PLANT SCHEDULE						
KEY	TOTAL QTY	COMMON NAME	BOTANICAL NAME	SIZE	ROOT	REMARKS
DECIDUOUS TREES						
QA	85	QUAKING ASPEN	POPULUS TREMULOIDES	1" CAL.	#10 CONT.	SINGLE LEADER
QA	52	QUAKING ASPEN	POPULUS TREMULOIDES	1 1/2" CAL.	#25 CONT.	SINGLE LEADER
WC	55	WILD BLACK CHERRY	PRUNUS SEROTINA	1" CAL.	#10 CONT.	SINGLE LEADER
WC	70	WILD BLACK CHERRY	PRUNUS SEROTINA	1 1/2" CAL.	#25 CONT.	SINGLE LEADER
HW	48	THORNLESS COCKSPUR HAWTHORN	CRATAEGUS CRUS-GALLI VAR. INERMIS	1 1/2" CAL.	#25 CONT.	SINGLE LEADER
ORNAMENTAL GRASSES						
KF	1548	KARL FOERSTER FEATHER REED GRASS	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	#1	CONT.	30" O.C.
SG	828	HEAVY METAL SWITCH GRASS	PANICUM VIRGATUM 'HEAVY METAL'	#1	CONT.	30" O.C.
LB	1546	LITTLE BLUE STEM	SCHIZACHYRIUM SCOPARIUM	#1	CONT.	30" O.C.
PERENNIALS						
DL	468	ROCKET CITY DAYLILY	HEMEROCALLIS 'ROCKET CITY'	#1	CONT.	24" O.C.
AS	173	PROFESSOR ANTON KIPPENBURG ASTER	ASTER 'PROF. ANTON KIPPENBURG'	#1	CONT.	36" O.C.



28-260

PLOT DATE: Apr 27, 2005 11:44am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-LS04.dwg

XREF DRAWINGS	
007-LSC	DESIGN FILE: 43932-007
007-PCD	
007-ESM	
007-mplwd-plot	
007-ESU-CITY-D	
007-AU	
007-ETO	
2x34b-dr	

DRAWN BY: RWK	DESIGN BY: SCW
CHKD. BY: RWK	DWG. NAME: LS04
DATE: MAY 4, 2004	

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	SCW	4/21/2005	REVISED PER CHANGE ORDER #13
2	RD	1/9/07	AS-BUILT



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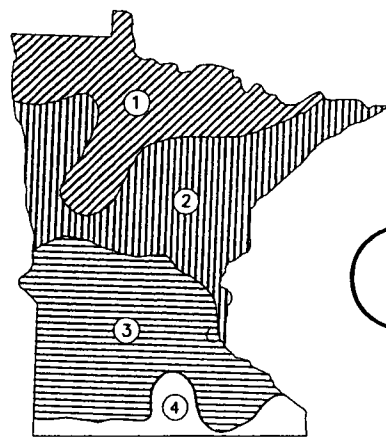
STEVEN C. WICZAWSKI
STEVEN C. WICZAWSKI
DATE: 4/27/2005 MI LIC. NO. 16958

CITY OF MAPLEWOOD
COUNTY ROAD D

LANDSCAPE PLAN
COUNTY ROAD D

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.	60
	99

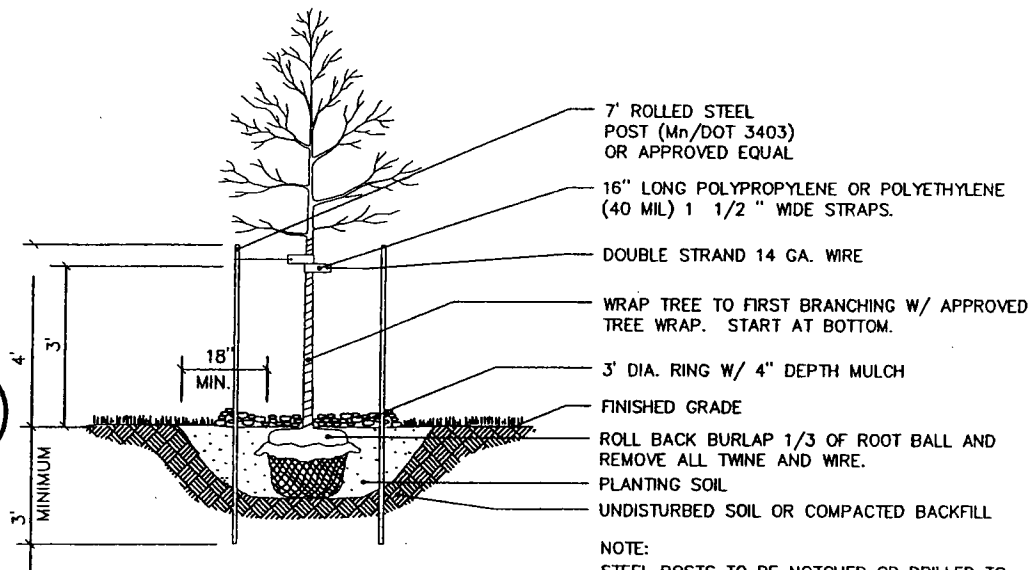


	SPRING			FALL	
	SEEDLING	DECIDUOUS	EVERGREEN	DECIDUOUS	EVERGREEN
1	APRIL 15 TO MAY 15	APRIL 21 TO JUNE 1	APRIL 21 TO JUNE 1	OCT. 1 TO NOV. 1	AUG. 25 TO SEPT. 15
2	APRIL 7 TO MAY 15	APRIL 14 TO JUNE 1	APRIL 14 TO MAY 24	OCT. 1 TO NOV. 6	AUG. 25 TO SEPT. 15
3	APRIL 1 TO MAY 15	APRIL 7 TO JUNE 1	APRIL 7 TO MAY 17	OCT. 10 TO NOV. 15	AUG. 25 TO SEPT. 15
4	APRIL 1 TO MAY 15	APRIL 1 TO MAY 25	APRIL 1 TO MAY 15	OCT. 15 TO NOV. 20	SEPT. 5 TO OCT. 1

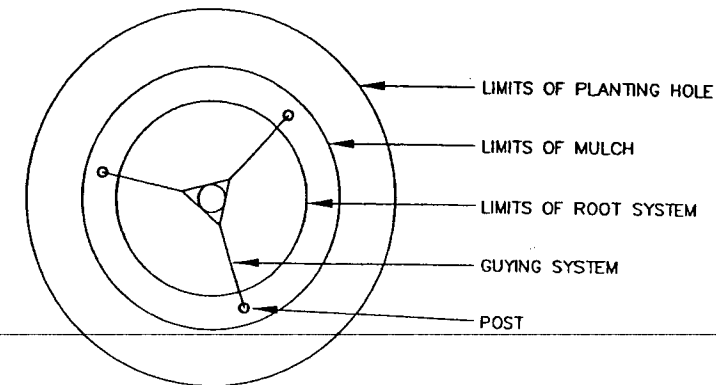
NOTES:
 1. SEEDLING INCLUDES DECIDUOUS AND EVERGREEN STOCK.
 2. ACTUAL DATES MAY CHANGE DEPENDING UPON SEASONAL CONDITIONS AS DETERMINED BY THE ENGINEER.
 3. FALL PLANTING IS NOT ALLOWED WITHOUT PRIOR APPROVAL FROM ENGINEER. SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS. THE FOLLOWING PLANTS ARE NOT RECOMMENDED FOR FALL INSTALLATION. HAWTHORNE, RUSSIAN OLIVE, DOGWOOD, POPLAR, HACKBERRY, LINDEN, IRONWOOD, HONEYLOCUST, BIRCH, MOUNTAIN ASH, MAPLE, WILLOW, CRABAPPLE, PLUM/CHERRY, OAKS, SUMAC.

○ - INDICATES PROJECT LOCATION

OPTIMUM PLANTING DATE ZONES IN MINNESOTA



NOTE:
 STAKING/GUYING IS NOT ANTICIPATED TO BE REQUIRED, NOR IS IT DESIRED. BUT IF STAKING/GUYING BECOMES NECESSARY, AS DETERMINED BY THE ENGINEER, THE STAKING/GUYING SHALL BE DONE IN ACCORDANCE WITH THE STANDARD TREE STAKING/GUYING DETAIL.



NOTE:
 STEEL POSTS TO BE NOTCHED OR DRILLED TO RETAIN GUY WIRES. PLACE OUTSIDE OF ROOT BALL. DRIVE PLUMB REGARDLESS OF GROUND SLOPE.

REQUESTS TO SUBSTITUTE RUBBER HOSE AND WIRE GUYING SYSTEMS WILL NOT BE APPROVED.

TREE PLANTING AND STAKING/GUYING DETAIL

TYPICAL PLAN VIEW



ZONE 1	BELOW -50 F
ZONE 2	-50 to -40
ZONE 3	-40 to -30
ZONE 4	-30 to -20

STATE INSPECTED PLANTS GROWN WITHIN ZONES 1-4 AND THE ACCEPTABLE GROWING RANGE FOR A MINIMUM OF 2 YEARS MAY BE USED ON ALL PROJECTS UNLESS OTHERWISE SPECIFIED.

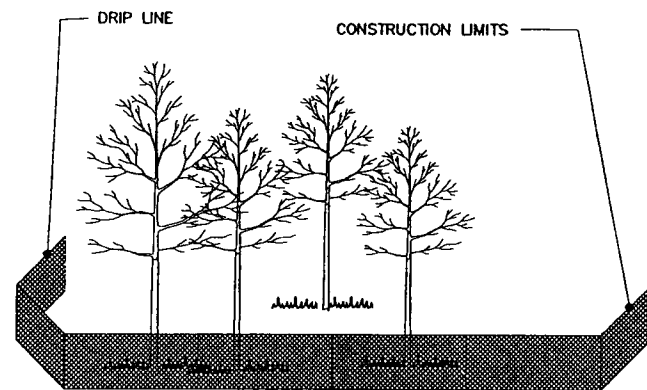
ZONE 5	-20 to -10
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STATE INSPECTED PLANTS GROWN WITHIN ZONE 5 AND THE ACCEPTABLE GROWING RANGE FOR A MINIMUM OF 2 YEARS ARE ALLOWED ONLY ON PROJECTS WITHIN ZONE 4 IN MINNESOTA. UNLESS CERTIFIED AS MINNESOTA ZONE HARDY IN ZONES 3 AND 2.

PLANT STOCK NOT GROWN WITHIN THE ACCEPTABLE ZONES AND GROWING RANGE FOR A MINIMUM OF 2 YEARS MAY BE ACCEPTED IF THE SEED SOURCE OR ROOT AND GRAFT STOCK IS CERTIFIED AND DOCUMENTED AS MIDWEST AND NORTHERN GROWN AND MINNESOTA ZONE HARDY.

ACCEPTABLE GROWING RANGE FOR MIDWEST AND NORTHERN GROWN PLANT STOCK

SOURCE: U.S.D.A. PLANT HARDINESS ZONE MAP



FURNISH AND INSTALL TEMPORARY FENCE AT THE TREES DRIPLINE OR CONSTRUCTION LIMITS AS SPECIFIED PRIOR TO ANY CONSTRUCTION. WHEN POSSIBLE PLACE FENCE 25 FEET BEYOND THE DRIP LINE.

TEMPORARY PROTECTION FENCE PLACEMENT DETAIL

28-260

PLOT DATE: Apr 27, 2005 4:17pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-plr-sht\007-LS05.dwg

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
2x34bdr	43932-007	1	SCW	4/21/05	REVISED PER CHANGE ORDER #13
		2	SCW	1/9/07	AS-BUILT

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 STEVEN C. WYGZANSKI
 DATE: 4/27/2005 MIN. LIC. NO. 16958

CITY OF MAPLEWOOD
 COUNTY ROAD D

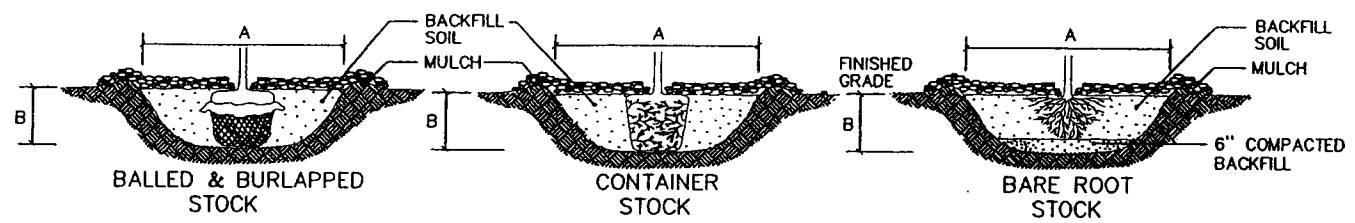
LANDSCAPE DETAILS
 COUNTY ROAD D

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.

61

99



GENERAL NOTES - SEE SPECIAL PROVISIONS FOR SPECIFIC PROJECT REQUIREMENTS

PLANTING HOLE ALL ISOLATED TREE PLANTING LOCATIONS AND PLANTING AND BED BEDS SHALL BE CULTIVATED BY TILLING TO A MINIMUM DEPTH OF 10". SOIL AMENDMENTS SHALL BE APPLIED DURING CULTIVATION.

BACKFILL SOIL: USE CULTIVATED AND AMENDED SOIL EXCAVATED FROM PLANTING HOLES. REMOVE ALL DEBRIS INCLUDING ROCKS LARGER THAN 3" DIA.

FERTILIZER: SEE SPECIAL PROVISIONS

COMPOST: NONE
X Mn/DOT 3890

MULCH MATERIAL: Mn/DOT 3882 TYPE 6, MODIFIED.

TREE STAKING: TREE STAKING (ALL SIZES) IS NOT ANTICIPATED, BUT MAY BE NECESSARY TO MAINTAIN TREES IN A PLUMB CONDITION WHERE VANDALISM, SOIL, OR WIND CONDITIONS ARE A PROBLEM OR AS REQUESTED BY THE ENGINEER.

TREE WRAPPING: WRAP OAKS, LINDENS, LOCUSTS, MAPLES, CRABAPPLES, AND MOUNTAIN ASHES PER SPECIAL PROVISIONS.

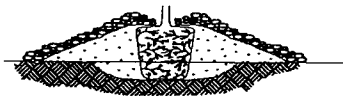
PLANTING HOLE DIMENSIONS
(MINIMUM WIDTH DOES NOT APPLY IN MASS PLANTING BEDS)

PLANT TYPE	PLANT SIZE (UP TO AND INCLUDING)	MINIMUM HOLE WIDTH (INCHES)		APPROXIMATE HOLE DEPTH (INCHES)	
		A	B	A	B
EVERGREEN TREES	3' B.B.	42	11		
	4' B.B.	51	13		
	5' B.B.	60	13		
	6' B.B.	66	15		
	7' B.B.	72	16		
	8' B.B.	81	18		
	9' B.B.	90	20		
SHADE & FLOWERING TREES	1" B.R.	54	14		
	1 1/4" B.R.	60	14		
	1 1/2" B.R.	66	15		
	1 3/4" B.R.	72	16		
	2" B.R.	84	19		
	2 1/2" B.R.	72	16		
	2 1/2" B.B.	84	19		
	3" B.B.	96	20		
	3 1/2" B.B.	114	23		
	4" B.B.	126	25		

- SCARIFY SIDES AND BOTTOM OF HOLE.
- PROCEED WITH CORRECTIVE PRUNING AS DIRECTED BY ENGINEER.
- SET PLANT ON UNDISTURBED NATIVE SOIL, OR THOROUGHLY COMPACTED BACKFILL SOIL AT THE SAME DEPTH (IF PROPER) AS IT WAS GROWN IN THE NURSERY.
- PLANT SHALL BE PLACED IN PLANTING HOLE WITH BURLAP AND WIRE BASKET, IF USED, INTACT. ONCE IN PLACE, THE PLANT SHALL BE BACKFILLED TO WITHIN 12" OF THE TOP OF THE ROOTBALL AND WATERED. THE TOP LOOPS OF THE WIRE BASKETS SHALL BE REMOVED AND THE BURLAP SHALL BE FOLDED OR CUT BACK.
- PLUMB AND BACKFILL WITH THE BACKFILL SOIL SPECIFIED.
- APPLY WATER TO SETTLE PLANTS AND FILL VOIDS THEN CONSTRUCT 3" DEPTH WATERING BASIN.
- WATER THOROUGHLY WITHIN 2 HOURS.
- PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

- NOTES:
- THE PLANTING DETAILS REPRESENT ADEQUATELY DRAINED SOIL CONDITIONS, THE CONTRACTOR SHOULD EXERCISE DISCRETION IN SETTING PLANTS 1"-3" HIGHER IN POORLY DRAINED SOILS.
 - ON 2:1 SLOPES OR GREATER, DO NOT CONSTRUCT THE UPHILL HALF OF THE WATERING BASIN.
 - ON WET, POORLY DRAINED SOILS, DO NOT CONSTRUCT WATERING BASIN.
 - THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ADEQUATE DRAINAGE IN HEAVY POORLY DRAINED OR IMPERVIOUS SOILS.
 - PLANTS SHOULD BE SET AT THE PROPER DEPTH WHEREBY THE BEGINNING TAPER OF THE ROOT FLARE IS AT THE SAME ELEVATION AS THE FINISHED SOIL GRADE. THIS SHOULD BE THE SAME DEPTH AS THE PLANTS WERE GROWN AT IN THE NURSERY. NOTE THAT THE ROOTS OF BALLED & BURLAPPED PLANTS ARE UNACCEPTABLE WHEN THEY ARE COVERED BY MORE THAN 4" OF SOIL IN THE TOP OF THE BALL.
 - DELAY MULCH PLACEMENT IF NECESSARY TO ALLOW MORE TIME FOR EXCESS SOIL MOISTURE TO EVAPORATE FROM PLANTING AREAS BEFORE PLACING MULCH.

PLANTING DETAILS FOR ISOLATED PLANTING LOCATIONS



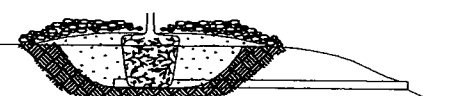
INSTALL MINI-BERM

- EXCAVATE HOLE OR BED 1/4 THE DEPTH OF THE ROOT MASS.
- SET ROOT MASS IN HOLE.
- CONSTRUCT BERM WITH SANDY LOAM TOPSOIL EXTENDING THE BERM BASE TO A WIDTH 3 TIMES THE HEIGHT OF THE BERM.
- COMPLETE PLANTING ACCORDING TO PLANTING DETAILS ABOVE AS APPLICABLE.



INSTALL GRANULAR FILTER

- EXCAVATE HOLE OR BED TO ALLOW PLACING TOP OF ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
- AUGER 8" DIAMETER HOLES ENTIRELY THROUGH IMPERVIOUS OR POORLY DRAINED HARD PAN SOIL LAYER TO ADEQUATELY DRAINED SUBSOIL.
- BACKFILL AUGER HOLES WITH A THOROUGHLY INCORPORATED MIXTURE OF 50% SAND AND 50% INPLACE SOIL.
- COMPLETE PLANTING ACCORDING TO PLANTING DETAILS ABOVE AS APPLICABLE.

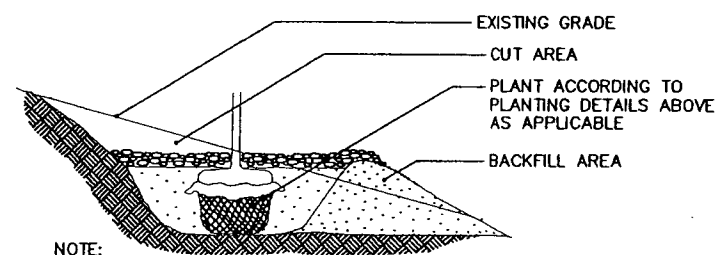


INSTALL TILE DRAINAGE

- EXCAVATE HOLE OR BED TO ALLOW PLACEMENT OF THE TOP OF THE ROOT MASS 1"-3" HIGHER THAN FINISHED GRADE.
- INSTALL 4" MINIMUM DIAMETER DRAIN TILE DAYLIGHTING AT A LOWER GRADE AS APPROVED BY THE ENGINEER.
- COMPLETE PLANTING ACCORDING TO PLANTING DETAILS ABOVE AS APPLICABLE.

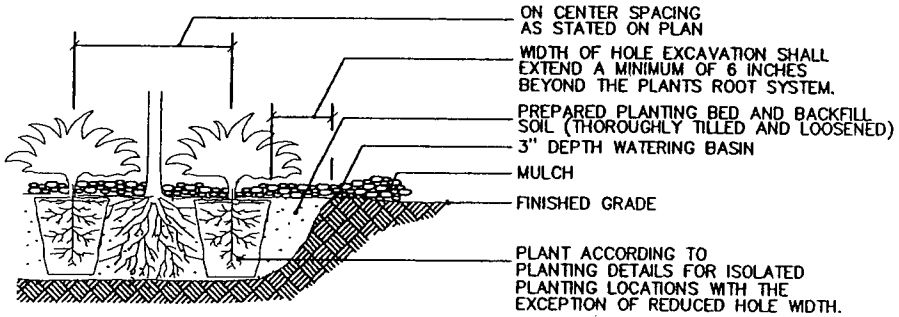
(NEED AND ALTERNATIVE SELECTION SHALL BE DETERMINED BY CONTRACTOR SUBJECT TO APPROVAL BY THE ENGINEER.)

ALTERNATIVE PLANTING DETAILS IN POORLY DRAINED SOIL



- NOTE:
- EXTENDED EXCAVATION AND BACKFILL SOIL TO A POINT DOWNSLOPE EQUAL TO OR LOWER IN ELEVATION THAN THE BOTTOM OF THE HOLE DIRECTLY BENEATH THE PLANT TO INSURE ADEQUATE DRAINAGE IN HEAVY SOILS. GRANULAR SOIL MUST BE ADDED AS BACKFILL IN AREAS OF POOR DRAINAGE.

PLANTING DETAIL FOR STEEP SLOPES



PLANTING DETAIL FOR MASS PLANTING BEDS

1) THE WATERING GUIDELINES ASSUME A SOIL CONDITION WITH ADEQUATE BUT NOT EXCESSIVE OR POOR DRAINAGE. WATERING INTERVALS AND AMOUNT OF APPLICATION MUST BE VARIED CONSIDERING PREVAILING SOIL MOISTURE AND WEATHER CONDITIONS THROUGHOUT THE GROWING SEASON. ADEQUATE BUT NOT EXCESSIVE SOIL MOISTURE IN THE ROOT ZONE OF NEW PLANTINGS MUST BE MAINTAINED AT ALL TIMES THROUGHOUT THE GROWING SEASON FOR THE FIRST TWO YEARS FOLLOWING PLANTING. WATERING MAY BE REQUIRED WEEKLY OR INFREQUENTLY. THIS DETERMINATION SHALL BE MADE BY THE CONTRACTOR.

2) THE CONTRACTOR IS ADVISED THAT THE WATERING GUIDELINES ARE NOT REQUIREMENTS OF THE CONTRACT ALTHOUGH FAILURE TO CORRECT WATER DEFICITS BY SUPPLEMENTAL WATERING OR FAILURE TO COMPENSATE FOR EXCESSIVE SOIL MOISTURE AND DRAINAGE PROBLEMS MAY RESULT IN UNACCEPTABLE PLANTS LEADING TO REDUCED OR NO PAYMENT.

PLANTING PLAN: RESPECT STATED DIMENSIONS BEFORE SCALING FROM PLAN.

WATERING GUIDELINES:

PLANT TYPE	AVERAGE AMOUNT OF WATER PER APPLICATION (GALLONS)
MACHINE TRANSPLANTED TREES (3" CALIPER+)	50-100
BALLED & BURLAPPED TREES	20 ±
BARE ROOT TREES	15 ±
BALLED & BURLAPPED SHRUBS	10 ±
BARE ROOT OR CONTAINER SHRUBS	7 ±
WOODY SEEDLINGS	4 ±
HERBACEOUS GROUNDCOVERS AND VINES	3 ±

PLANT TYPE	PLANT SIZE (UP TO AND INCLUDING)	MINIMUM HOLE WIDTH (INCHES)		APPROXIMATE HOLE DEPTH (INCHES)	
		A	B	A	B
EVERGREEN TREES	3' B.B.	42	11		
	4' B.B.	51	13		
	5' B.B.	60	13		
	6' B.B.	66	15		
	7' B.B.	72	16		
	8' B.B.	81	18		
	9' B.B.	90	20		
SHADE & FLOWERING TREES	1" B.R.	54	14		
	1 1/4" B.R.	60	14		
	1 1/2" B.R.	66	15		
	1 3/4" B.R.	72	16		
	2" B.R.	84	19		
	2 1/2" B.R.	72	16		
	2 1/2" B.B.	84	19		
	3" B.B.	96	20		
	3 1/2" B.B.	114	23		
	4" B.B.	126	25		
EVERGREEN SHRUBS (UPRIGHT)	2' B.B.	36	9		
	3' B.B.	48	12		
	4' B.B.	63	14		
	18" spread B.B.	30	8		
EVERGREEN SHRUBS (SPREADING)	2' spread B.B.	36	9		
	2 1/2' spread B.B.	42	11		
	3' spread B.B.	48	12		
	18" B.R.	30	8		
DECIDUOUS SHRUBS	2' B.R.	33	9		
	3' B.R.	42	11		
	4' B.R.	48	12		
	5' B.R.	54	14		
	6' B.R.	60	14		
	18" B.B.	27	7		
	2' B.B.	30	8		
	3' B.B.	36	9		
CONTAINER GROWN PLANTS	Cellpacks	6	2.5		
	2.25" cont.	7	3		
	3.5" cont.	10	3		
	4.0" cont.	11	4		
	4.5" cont.	13	4		
	1 Quart cont.	15	5.5		
	#1 cont.	18	6		
	#2 cont.	23	7.5		
	#3 cont.	29	8.5		
	#5 cont.	30	11		
	#7 cont.	37	11		
	#10 cont.	44	14		
	#15 cont.	45	15		
#20 cont.	60	17			
#25 cont.	72	16			

28-260

PLOT DATE: Apr 27, 2005 4:17pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\007-LS08.dwg

XREF DRAWINGS	DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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Steven C. Wyczański
STEVEN C. WYCZAŃSKI
DATE: 4/27/2005 MN LIC. NO. 6958

CITY OF MAPLEWOOD
COUNTY ROAD D

LANDSCAPE DETAILS
COUNTY ROAD D

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO. 62
99

PLOT DATE: Jun 30, 2005 1:21pm DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\07-pln-sht\007-ER-TAB-01.dwg

EARTHWORK TABULATION								
ROADWAY	STATION	EXCAVATION					EMBANKMENT	
		SEL. GRADING MAT.	SALVAGE	MUCK	SUBGRADE	SURCHARGE	SELECT	SELECT GRANULAR
		COMMON EX.	TOPSOIL	EXCAVATION	EXCAVATION	EXCAVATION	GRADING	5% MODIFIED
		VOL	VOL	VOL	VOL	VOL	VOL	VOL
(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)		
COUNTY ROAD D	51+50.00							
MUCKING AREA	52+00.00			1574.1			1278.7	
	52+50.00			3212.0			1828.7	1439.8
	53+00.00			3762.0			2099.1	2235.2
	53+23.98			1162.6		0.0	1103.5	776.2
	63+00.00							
	63+50.00			507.4		1147.2	210.2	660.2
	64+00.00			1844.4		1840.7	448.1	2070.4
	64+50.00			2497.2		1602.8	499.1	2275.9
	65+00.00			2065.7			445.4	1281.5
	65+50.00			1947.2			545.4	877.8
	66+00.00			1987.0			688.9	939.8
	66+50.00			1658.3			800.0	971.3
	67+00.00			1286.1			926.9	1024.1
	67+50.00			1030.6			1041.7	1083.3
	68+00.00			883.3			1146.3	1134.3
	68+50.00			887.0			1248.1	1187.0
	69+00.00			914.8			1350.0	1260.2
	69+50.00			817.6			1444.4	1310.2
	70+00.00			713.9			1548.1	1213.9
	70+50.00			696.3			1566.7	1050.0
	71+00.00			634.3			1245.4	770.4
SUBTOTAL-Mucking Area		0.0	0.0	30082.0	0.0	4590.7	21464.6	23561.4
COUNTY ROAD D	53+23.98							
SURCHARGE AREA	53+50.00			358.5		1.0	914.1	289.6
	54+00.00					624.1	647.2	
	54+56.33					971.2	33.4	
	55+00.00					454.5	34.0	
	56+00.00					1379.6	59.3	
	56+50.00					1054.6	17.6	
	57+00.00					1290.7	11.1	
	57+50.00					1165.7	11.1	
	58+00.00					1004.6	11.1	
	58+50.00					1032.4	11.1	
	59+00.00					965.7	11.1	
	59+50.00					813.9	11.1	
	60+00.00					814.8	11.1	
	60+50.00					749.1	11.1	
	61+00.00					515.7	11.1	
	61+50.00					317.6	12.0	
	62+00.00					280.6	13.9	
	62+50.00					409.3	13.0	
	63+00.00					441.7	44.4	
SUBTOTAL-Surcharge Area		0.0	0.0	358.5	0.0	14286.8	1888.8	289.6

EARTHWORK TABULATION								
ROADWAY	STATION	EXCAVATION					EMBANKMENT	
		SEL. GRADING MAT.	SALVAGE	MUCK	SUBGRADE	SURCHARGE	SELECT	SELECT GRANULAR
		COMMON EX.	TOPSOIL	EXCAVATION	EXCAVATION	EXCAVATION	GRADING	5% MODIFIED
		VOL	VOL	VOL	VOL	VOL	VOL	VOL
(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)		
COUNTY ROAD D	71+00.00							
TOPSOIL AREA	71+50.00			288.0				527.8
	72+00.00							50.9
	72+50.00	837.0						11.1
	73+00.00	883.3						37.0
	73+50.00	635.2						120.4
	74+00.00	319.4						201.9
	74+50.00	89.8						300.9
	75+00.00	390.7						386.1
	75+50.00	1201.9						264.8
	76+00.00	2297.2						72.2
	76+50.00	3332.4						181.5
	77+00.00	3717.6						11.1
	77+50.00	3688.9						11.1
	78+00.00	3569.4						11.1
	78+50.00	3268.5						11.1
	79+00.00	2939.8						11.1
	79+50.00	2513.9						14.8
	80+00.00	1969.4						18.5
	80+50.00	1485.2						18.5
	81+00.00	1312.0						18.5
	81+50.00	1074.1						18.5
	82+00.00	398.1						28.7
	82+15.19	19.7						18.6
	82+50.00	34.2						46.4
	83+00.00	12.0						357.4
	83+50.00	0.0						1049.1
	84+00.00	22.2						1213.9
	84+50.00	24.1						972.2
	85+00.00	20.4						627.8
	85+50.00	90.7						179.6
	86+00.00	175.9						44.4
	86+50.00	172.2						60.2
	87+00.00	126.9						99.1
	87+50.00	109.3						164.8
	88+00.00	81.5						75.9
SUBTOTAL-Topsoil Area		36813.1	0.0	288.0	4536.5	0.0	6991.8	278.7
COUNTY ROAD D	88+00.00							
EXISTING AREA	88+46.49	65.4						93.8
	89+00.00	69.4						175.4
	89+50.00	52.8						383.3
	90+00.00	74.1						410.2
	90+50.00	95.4						150.9
	91+06.26	205.2						24.0
	91+50.00	254.3						35.6
	92+00.00	357.4						68.5
	92+50.00	434.3						64.8
	93+00.00	458.3						67.6
	93+50.00	441.7						49.1
	94+00.00	406.5						24.1
	94+50.00	353.7						13.9
	94+79.84	149.8						3.3
	94+98.85	46.1						1.1
	95+50.00	94.7						8.5

28-260

XREF DRAWINGS 2x34bdr	DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
DRAWN BY: JCD	DESIGN BY: NCL	1	JCD	4/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL	DWG. NAME: ER-TAB-01.dwg	2	JCD	6/30/05	REVISED EARTHWORK QUANTITIES
DATE: FEBRUARY 27, 2004		3	JCD	1/1/07	A2-BUILT



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612.370.0700 Tel
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K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

EARTHWORK TABULATIONS
COUNTY ROAD D, HAZELWOOD STREET

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		63
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

EARTHWORK TABULATION								
ROADWAY	STATION	EXCAVATION				EMBANKMENT		
		SEL. GRADING MAT.	SALVAGE	MUCK	SUBGRADE	SURCHARGE	SELECT	SELECT GRANULAR
		COMMON EX.	TOPSOIL	EXCAVATION	EXCAVATION	EXCAVATION	GRADING	5% MODIFIED
		VOL	VOL	VOL	VOL	VOL	VOL	
		(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)	(CU YD)
	96+00.00	91.7			141.7		11.1	
	96+53.85	52.9			152.6		23.9	
	97+00.00	20.5			129.0		25.6	
	97+50.00	14.8			138.9		21.3	
	98+00.00	13.9			138.0		53.7	
	98+50.00	65.7			148.1		103.7	
	99+00.00	65.7			138.0		133.3	
	99+50.00	14.8			116.7		148.1	
	100+00.00	15.7			116.7		150.9	
	100+50.00	13.9			119.4		146.3	
	101+00.00	11.1			129.6		120.4	
	101+50.00	8.3			138.0		84.3	
	102+15.03	10.8			177.0		68.6	
	102+50.00	10.4			94.5		20.7	
	103+00.04	28.7			136.2		13.9	
	103+50.00	29.6			143.4		9.3	
	104+00.00	41.7			151.9		13.0	
	104+50.00	70.4			148.1		12.0	
	105+00.00	88.0			140.7		11.1	
	105+42.11	78.8			114.6		9.4	
	105+50.00	7.3			10.7		0.9	
	106+00.00	1.9						
	106+50.00	1.9						
	107+00.00	1.9						
	107+50.00	4.6						
	108+00.00	8.3						
	108+50.00	6.5						
	108+88.69	2.1						
SUBTOTAL-Existing Area		4340.9	0.0	0.0	5372.6	0.0	2755.7	0.0
HAZELWOOD STREET								
	00+56.02							
	01+00.00	97.7			83.9		162.9	
	01+18.34	17.3			18.0		70.3	
	01+50.00	19.9			46.3		85.0	
	02+00.00	138.9			97.2		58.3	
	02+50.00	311.1			100.0		15.7	
	03+00.00	344.4			100.0		11.1	
	03+50.00	235.2			100.0		11.1	
	04+00.00	121.3			100.0		24.1	
	04+50.00	51.9			100.0		42.6	
	05+00.00	25.0			100.0		48.1	
	05+50.00	38.0			100.0		46.3	
	06+00.00	54.6			100.0		52.8	
	06+17.84	10.6			17.8		10.9	
SUBTOTAL-Hazelwood Street		1465.9	0.0	0.0	1063.3	0.0	639.3	0.0
COUNTY ROAD D TOTALS		41154	0	30728	9909	18878	33101	24130
HAZELWOOD TOTALS		1466	0	0	1063	0	639	0

28-260

LOT DATE: Jun 30, 2005 1:21pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\007-ER-TAB-02.dwg

XREF DRAWINGS		DESIGN FILE: 43932-007	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
DRAWN BY: JCD		DESIGN BY: NCL	1	JCD	4/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: ER-TAB-02.dwg	2	JCD	6/30/05	REVISED EARTHWORK QUANTITIES
DATE:			3	JCD	7/9/07	AS-BUILT



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K.P. Keel
KARL P. KEEL
DATE: 4/27/2005 MN LIC NO: 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

EARTHWORK TABULATIONS
COUNTY ROAD D, HAZELWOOD STREET

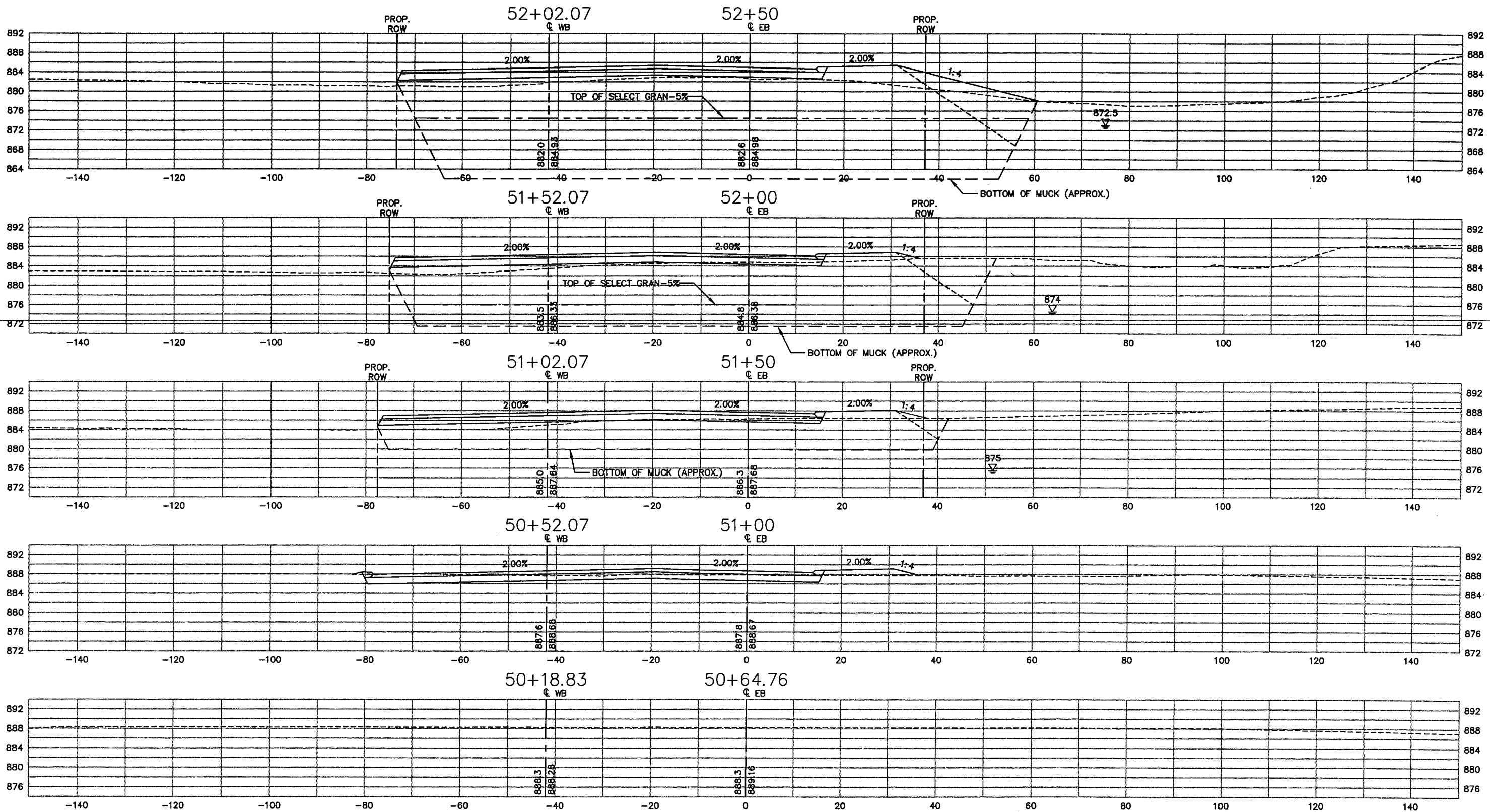
CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.

64

99

PLOT DATE: Jul 05 2005 6:32pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS01.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	1	PMJ	05/27/04	REVISED PROFILE STA 50+67 - 73+05
DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS01				
DATE: FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

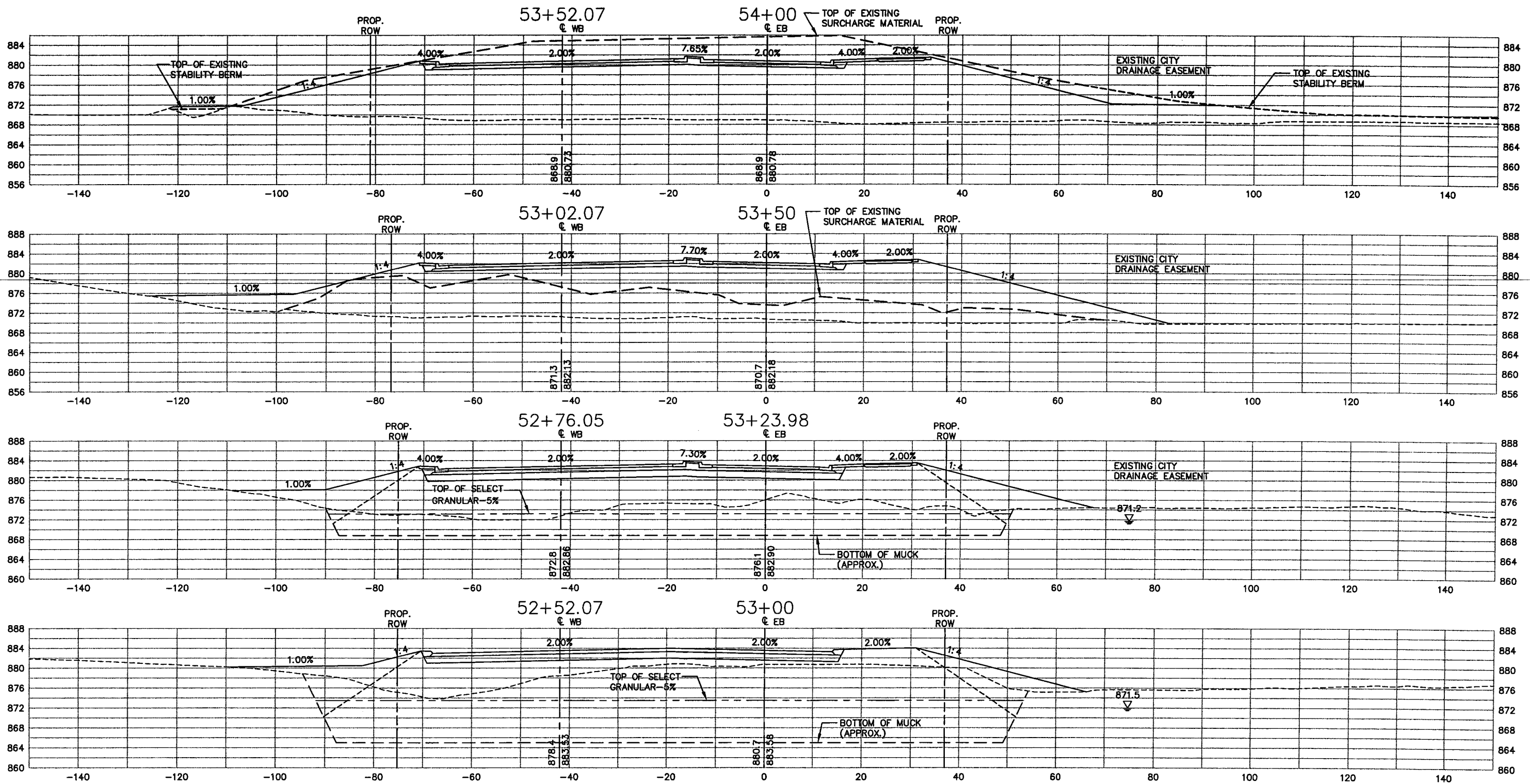
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 50+64.76 TO STATION 52+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
65
99

PLOT DATE: Jul 01, 2005 9:42am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS02.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	05/27/04	REVISED PROFILE STA 50+57 - 73+05
2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
4	JCD	01/09/07	AS-BUILT



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

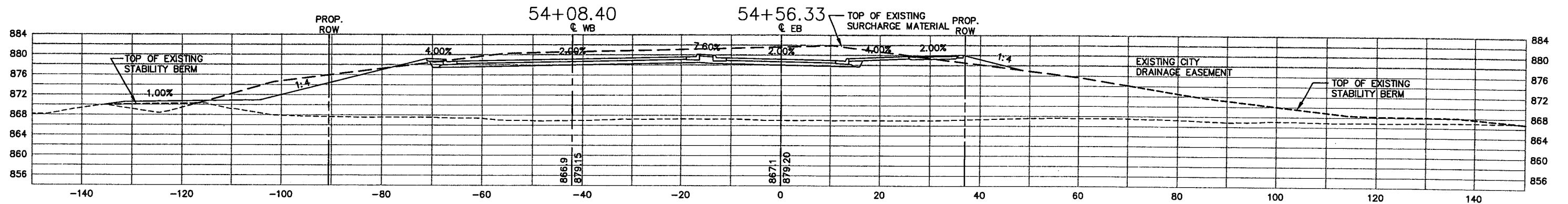
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 53+00 TO STATION 54+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.	66
	99

PLOT DATE: Jul 01, 2005 9:42am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS03.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: CS03	3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
DATE: FEBRUARY 27, 2004			4	JCD	01/08/07	AS-BUILT



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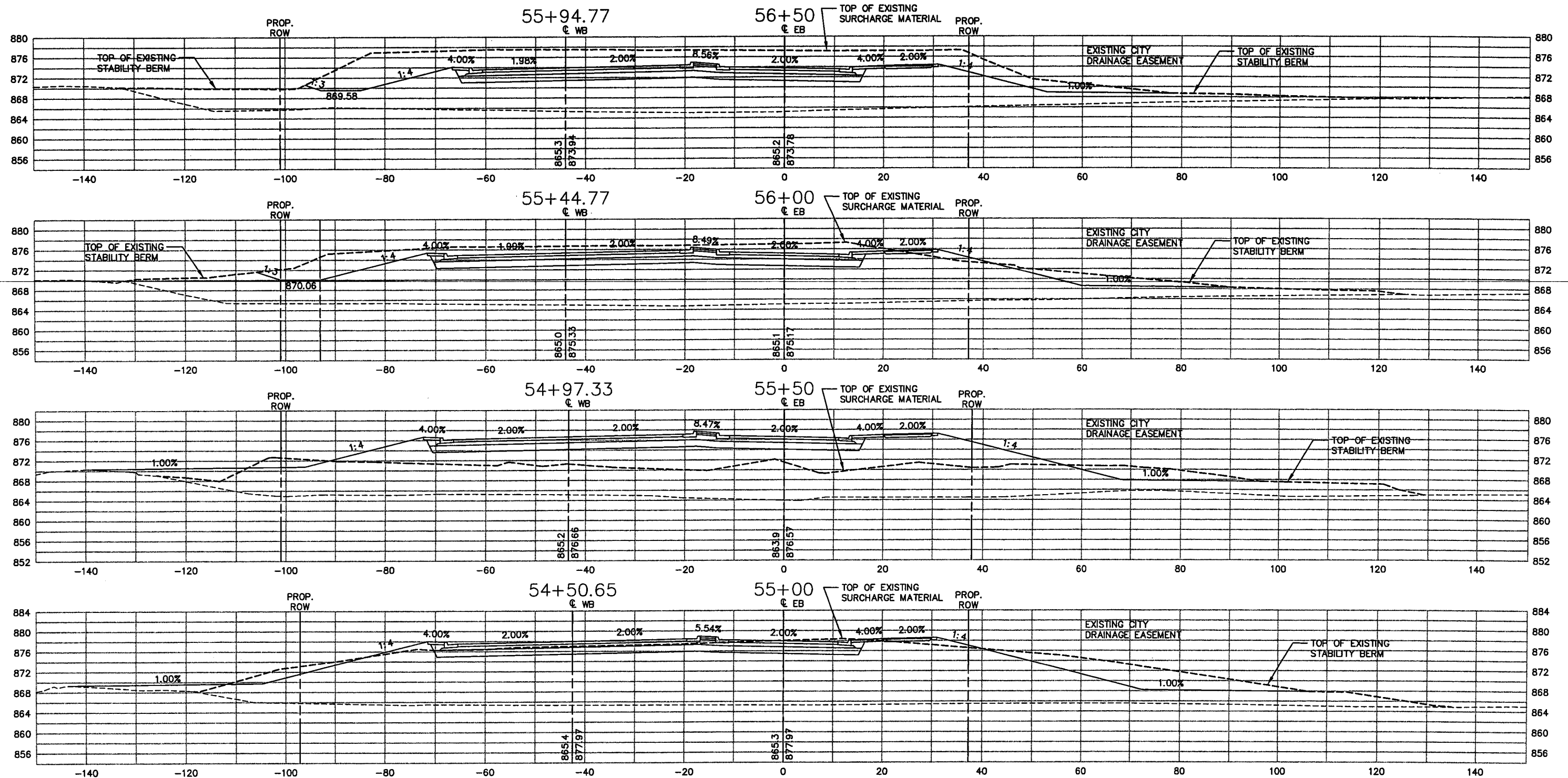
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 54+56.33

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		67
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: Jul 01, 2005 9:43am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh1\SECTIONS\007-CS04.dwg



28-260

XREF DRAWINGS		DESIGN FILE:		REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY:	DESIGN BY:	1	PMJ	05/27/04	REVISED PROFILE STA 50+67 - 73+05		
CHKD. BY:	DWG. NAME:	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13		
	CS04	3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION		
DATE:		4	JCD	01/09/07	AS-BUILT		
FEBRUARY 27, 2004							



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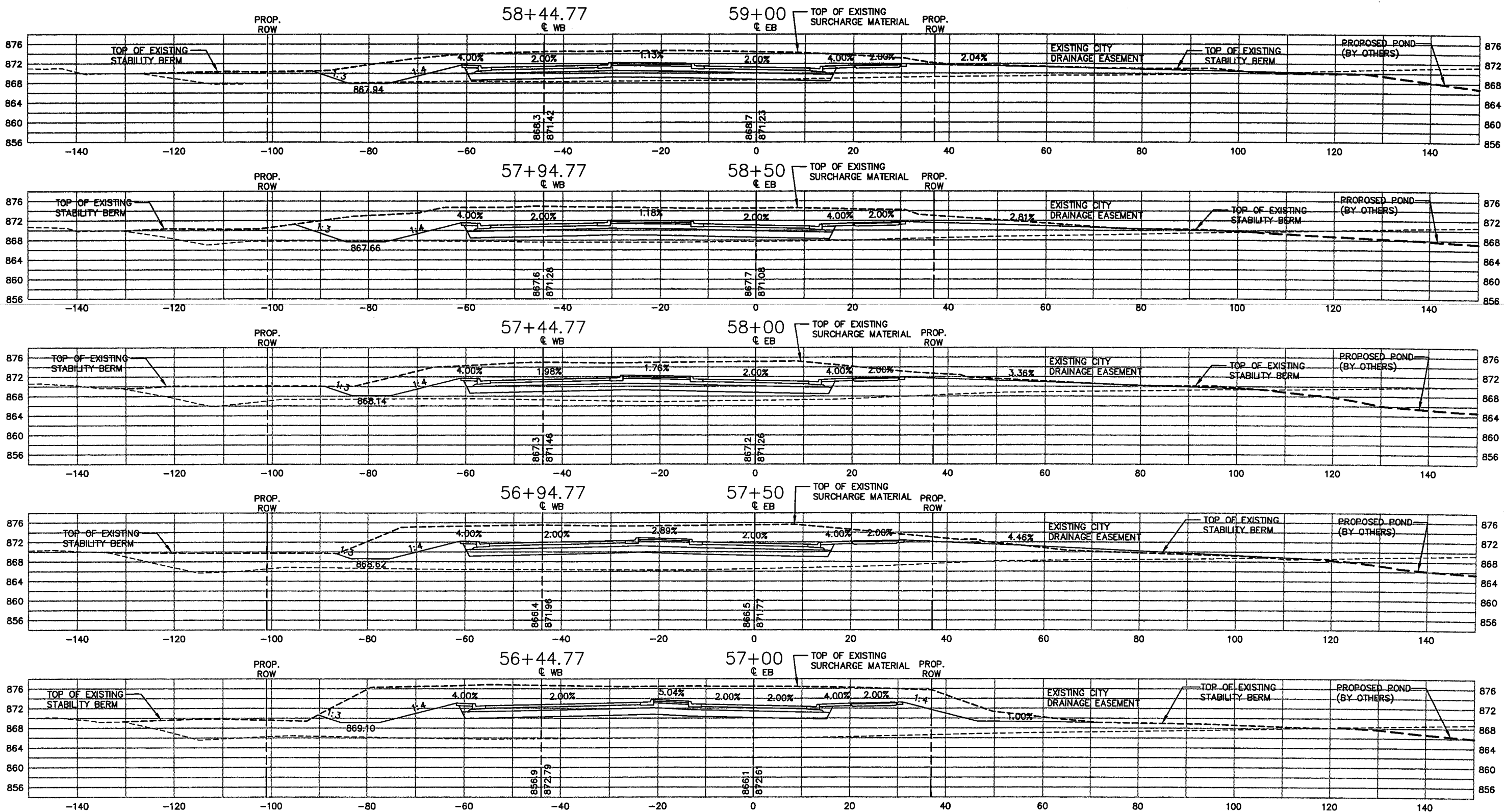
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 55+00 TO STATION 56+50

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO.
68
99

PLOT DATE: May 04, 2006 10:52am DISK FILE NAME: (16.1) R:\9392007\PLAN-SHT\007-pln-ah\SECTIONS\007-CS05.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E-041505 22x34bdr		43932-007	1	PMJ	05/27/04	REVISED PROFILE STA 50+87 - 73+05
DRAWN BY: PMJ		DESIGN BY: NCL	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: CS05	3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
DATE: FEBRUARY 27, 2004			4	BJK	5/4/06	REVISED GRADING TO EAST POND
			5	JCD	01/09/07	AS-BUILT



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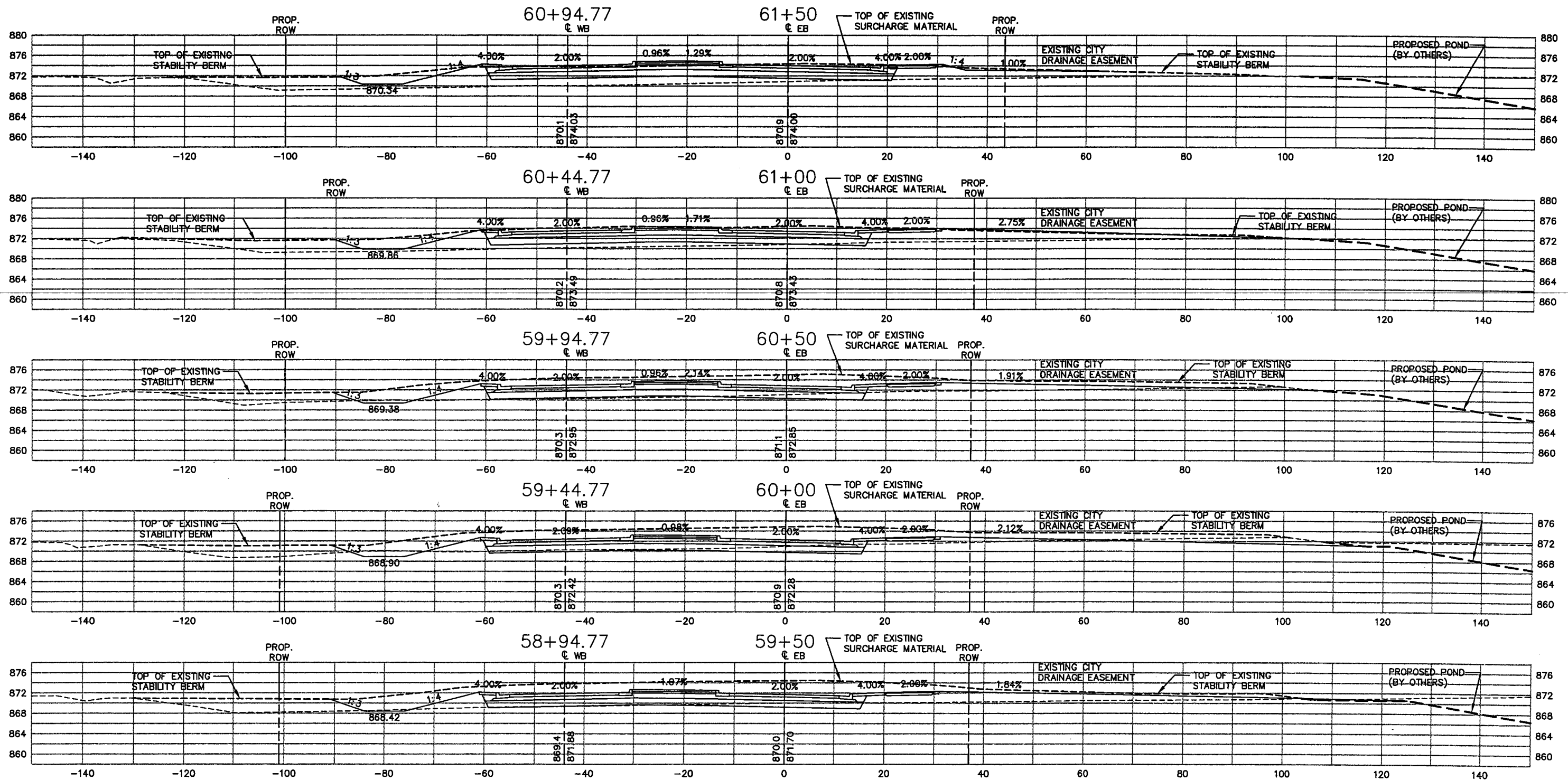
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 57+00 TO STATION 59+00

CITY PROJECT	02-07	SHEET NO.	69
COUNTY PROJECT			
S.A.P.	138-121-03		
S.A.P.	138-112-05		99

PLOT DATE: May 04, 2006 11:00am DISK FILE NAME: (16.1) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS06.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E-041505 22x34bdr		43932-007	1	PMJ	05/27/04	REVISED PROFILE STA 50+67 - 73+05
DRAWN BY: PMJ		DESIGN BY: NCL	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: CS06	3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
DATE: FEBRUARY 27, 2004			4	BJK	5/4/06	REVISED GRADING TO EAST POND
			5	JCD	01/09/07	AS-BUILT



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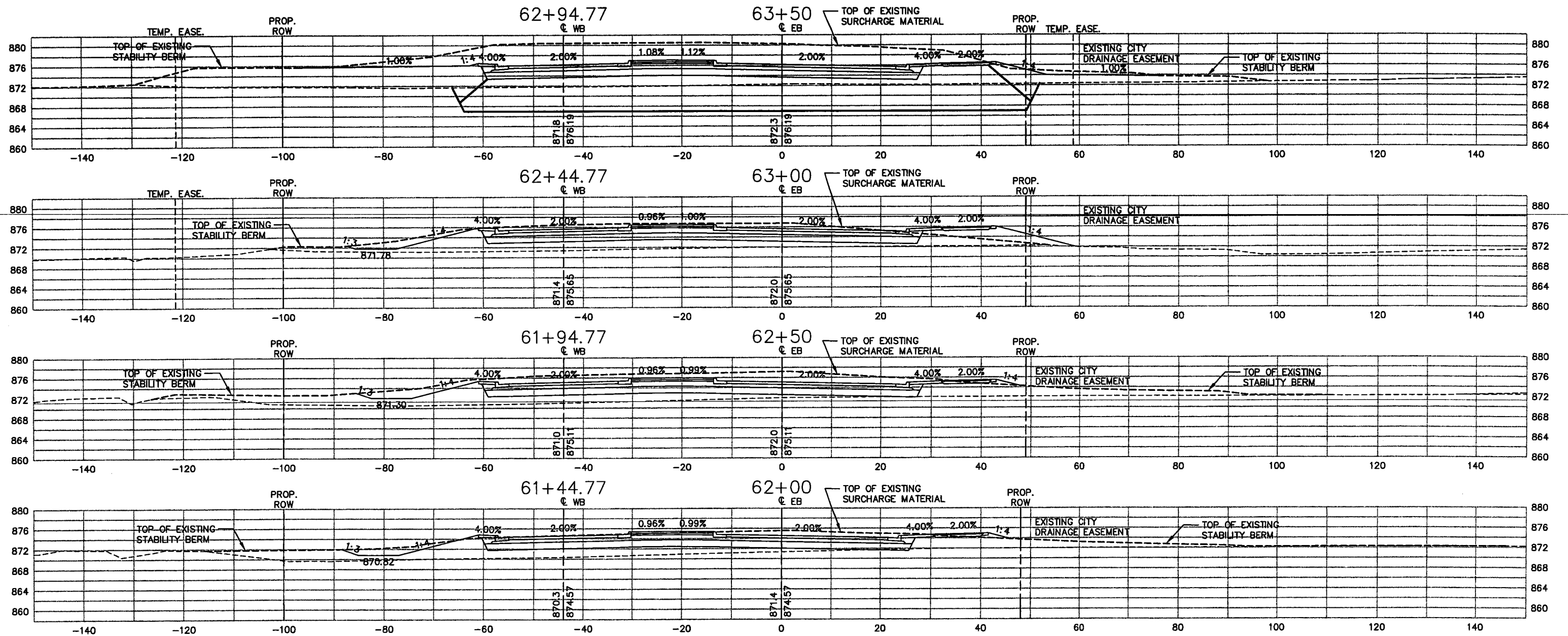
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 59+50 TO STATION 61+50

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO.
70
99

PLOT DATE: Jul 01, 2005 9:43am DISK FILE NAME: (15.06) R:\9392007\PLAN-SHT\plan-sht\SECTIONS\007-CS07.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	05/27/04	REVISED PROFILE STA 50+87 - 73+05
2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
4	JCD	07/08/07	AS-BUILT



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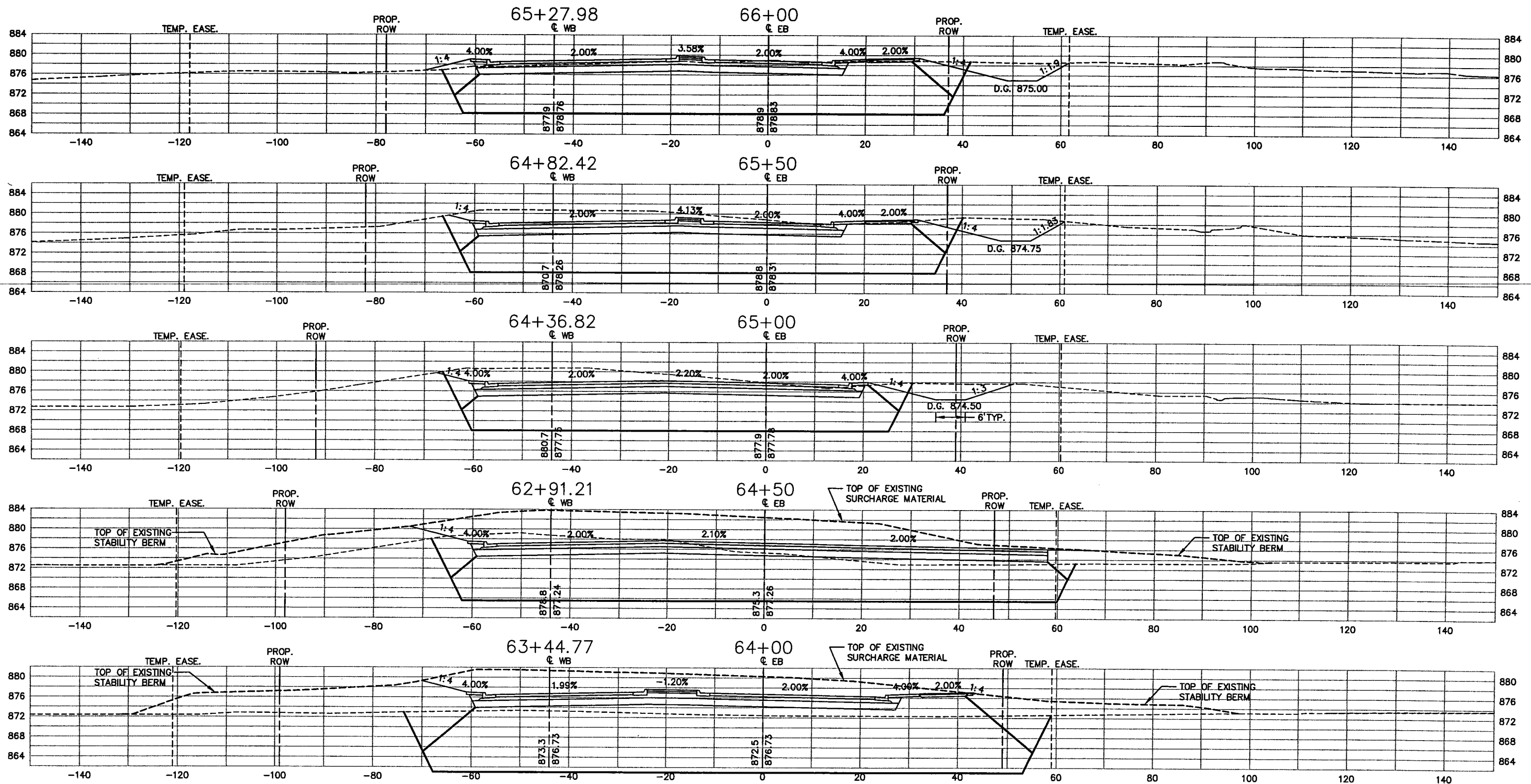
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 62+00 TO STATION 63+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
71
99

PLOT DATE: Oct 19, 2005 10:34am DISK FILE NAME: (15.06) R:\9392007\PLAN-SHT\007-pln-sh1\SECTIONS\007-CS08.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E-041505 22x34bdr		43932-007	1	PMJ	05/27/04	REVISED PROFILE STA 50+67 - 73+05
DRAWN BY: PMJ		DESIGN BY: NCL	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: CS08	3	PMJ	06/30/05	UPDATED SURCHARGE EXCAVATION
DATE: FEBRUARY 27, 2004			4	SAW	10/19/05	ADDED DITCH, STA. 65+00 - STA. 70+00, RT.
			5	JCD	01/09/07	AS-BUILT



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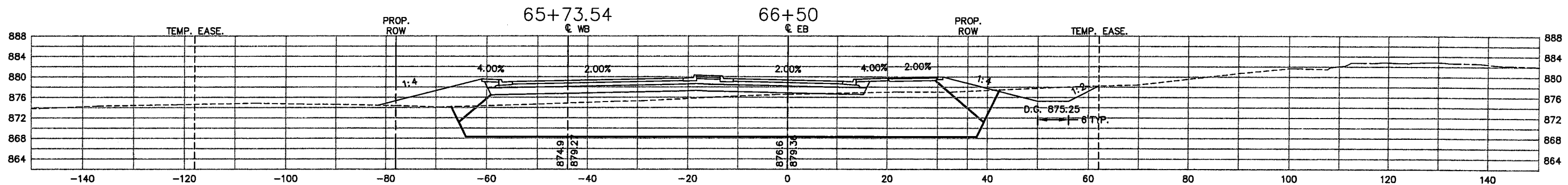
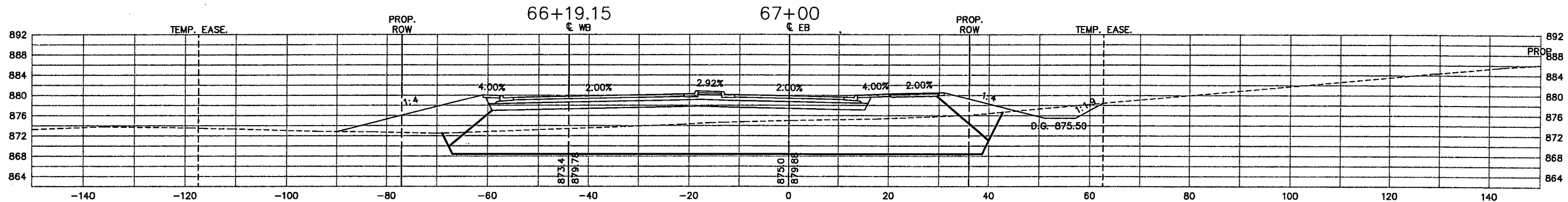
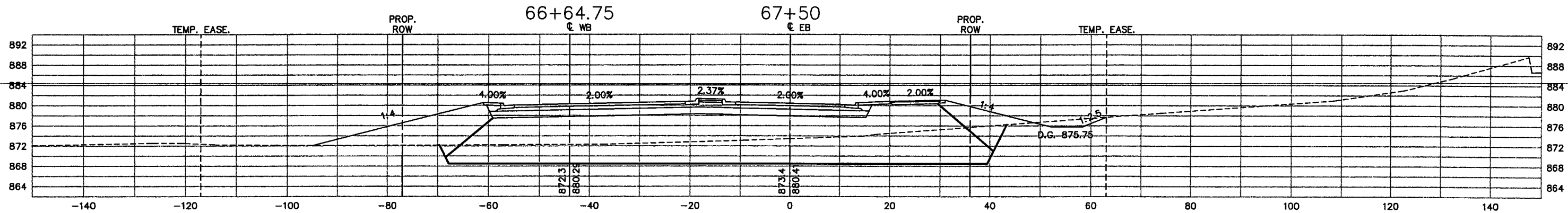
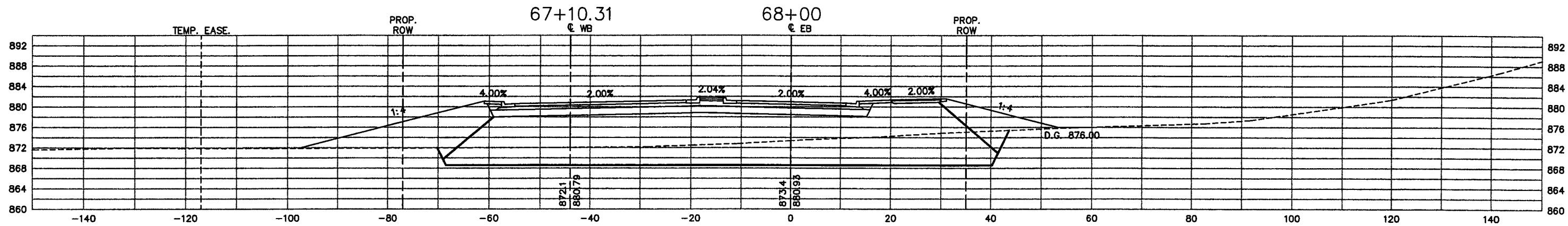
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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 64+00 TO STATION 66+00

CITY PROJECT	02-07	SHEET NO.	72
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Oct 19, 2005 10:36am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-PLAN-SHT\SECTIONS\007-CS09.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
CHKD. BY: NCL		DWG. NAME: CS09	3	SAW	10/19/05	ADDED DITCH, STA. 65+00 - STA. 70+00, RT.
DATE: FEBRUARY 27, 2004			4	JCD	01/09/07	AS-BUILT



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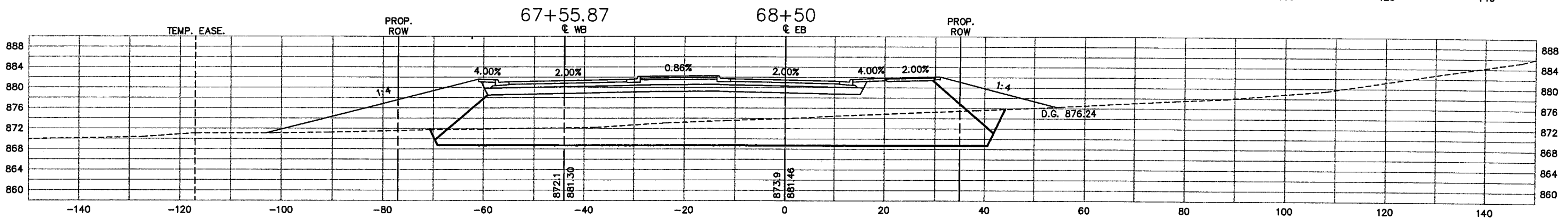
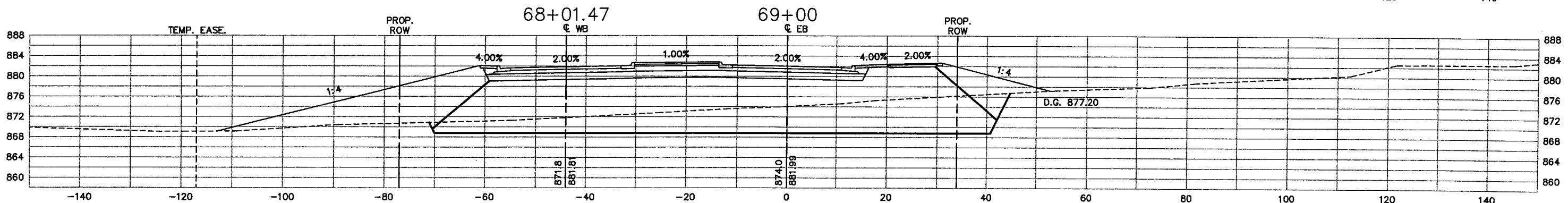
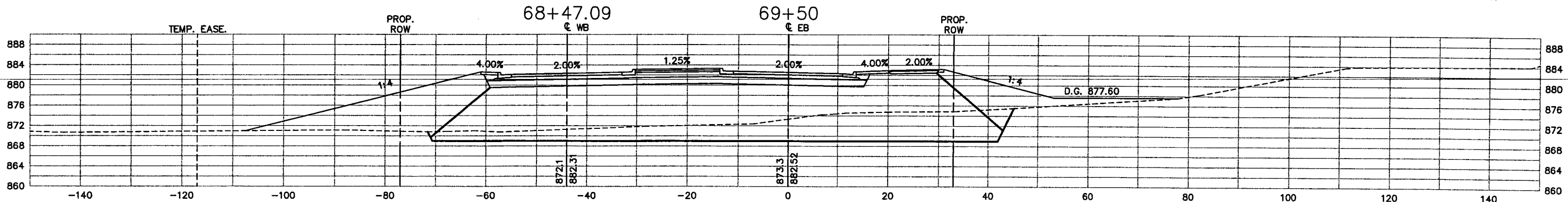
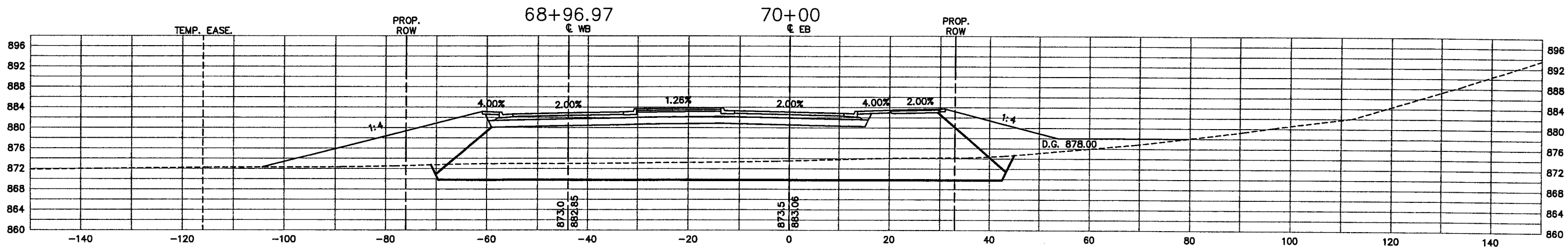
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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 66+50 TO STATION 68+00

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		73
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99

PLOT DATE: Oct 19, 2005 10:35am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh1\SECTIONS\007-CS10.dwg



28-260

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22x34bdr			2	PMJ	04/21/05	REVISED PER CHANGE ORDER #13
			3	SAW	10/19/05	ADDED DITCH, STA. 65+00 - STA. 70+00, RT.
			4	JCD	01/09/07	AS-BUILT
DRAWN BY:		DESIGN BY:				
PMJ		NCL				
CHKD. BY:		DWG. NAME:				
NCL		CS10				
DATE:						
FEBRUARY 27, 2004						



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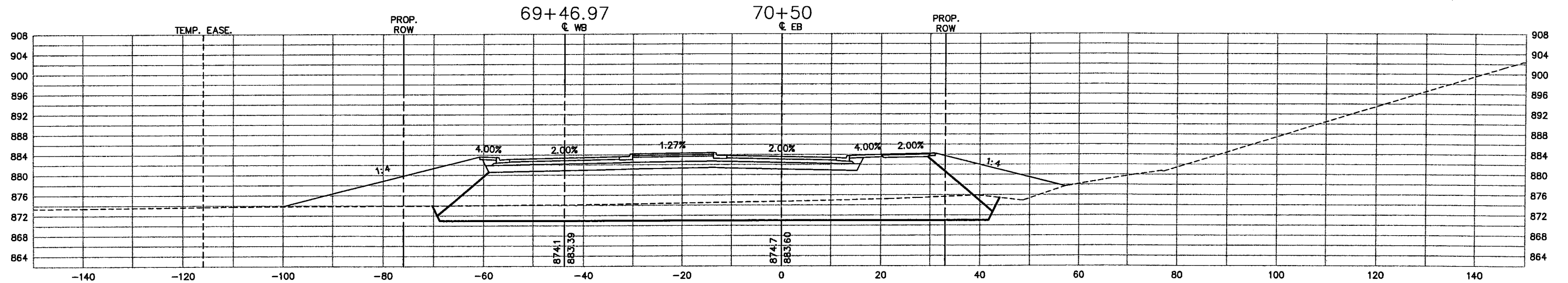
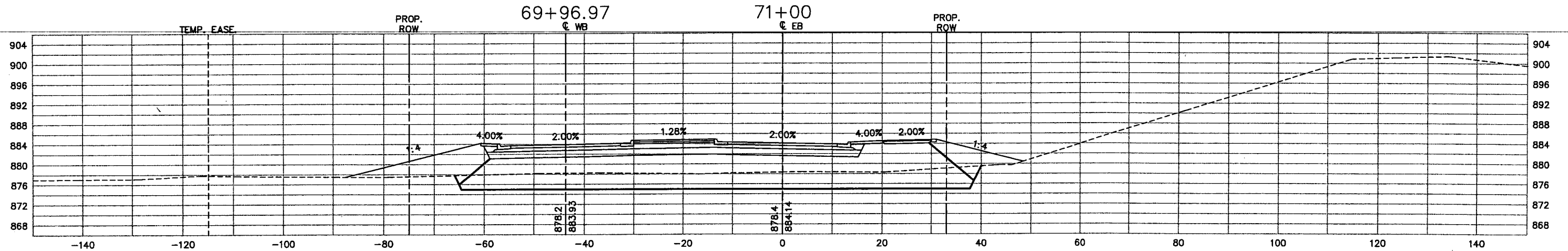
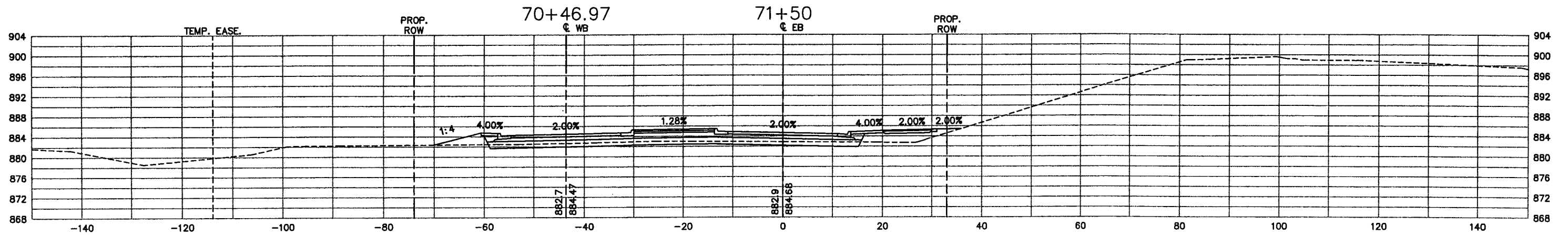
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 68+50 TO STATION 70+00

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		74
S.A.P.	138-121-03	
S.A.P.	138-112-05	

PLOT DATE: Jul 01, 2005 9:44am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS11.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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CHKD. BY: NCL		DWG. NAME: CS11	3	JCD	01/08/07	AS-BUILT
DATE: FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

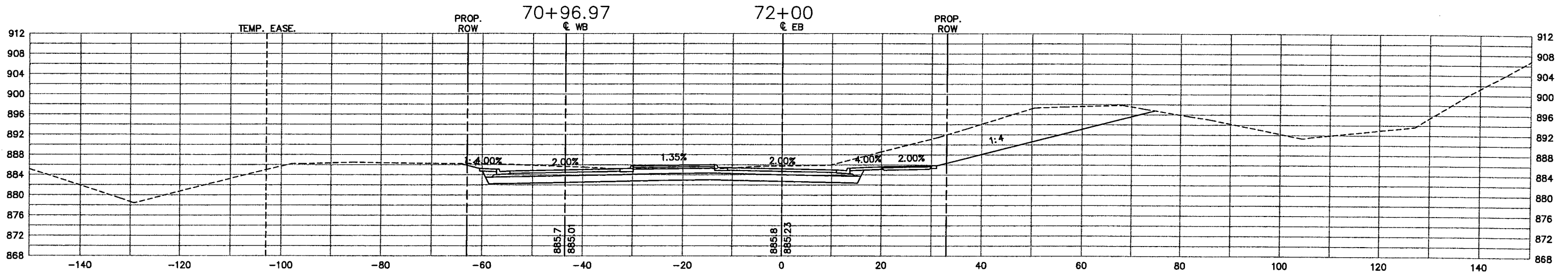
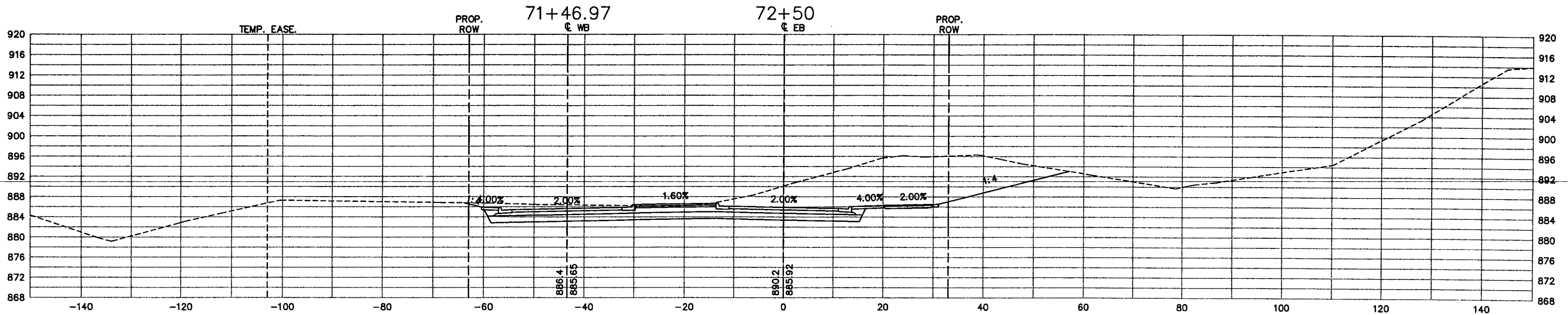
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 70+50 TO STATION 71+50

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO. 75
99

PLOT DATE: Jul 01, 2005 9:44am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS12.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS12				
DATE: FEBRUARY 27, 2004						



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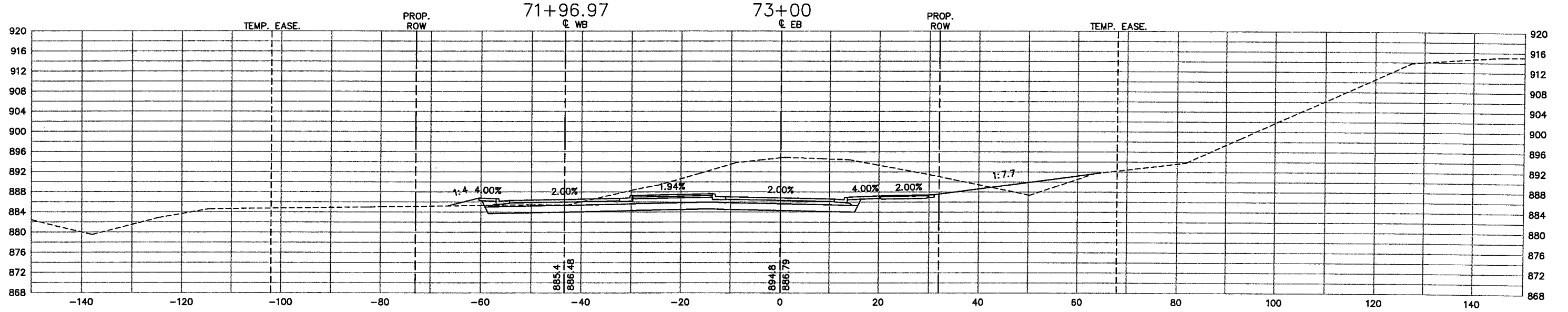
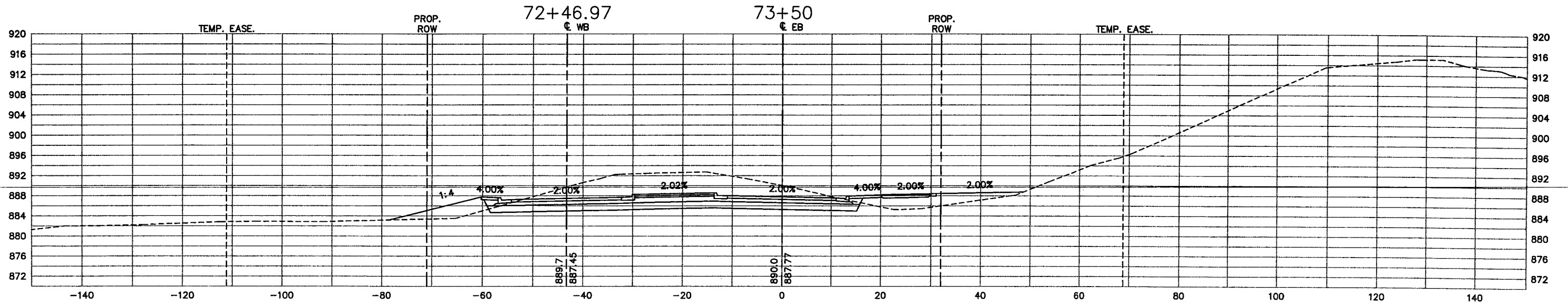
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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 72+00 TO STATION 72+50

CITY PROJECT	02-07	SHEET NO.	76
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: JUN 01, 2005 9:44am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS13.dwg



28-260

XREF DRAWINGS		DESIGN FILE:		REV. NO.		BY		DATE		REVISIONS DESCRIPTION	
CS-CITY-RD-D-E-041505 22x34bdr		43932-007		1		PMJ		04/21/05		REVISED PER CHANGE ORDER #13	
DRAWN BY:		DESIGN BY:		2		JCD		01/09/07		AS-BUILT	
CHKD. BY:		DWG. NAME:									
NCL		CS13									
DATE:											
FEBRUARY 27, 2004											



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Karl P. Keel
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DATE: 6/30/2005 MN LIC. NO. 19681

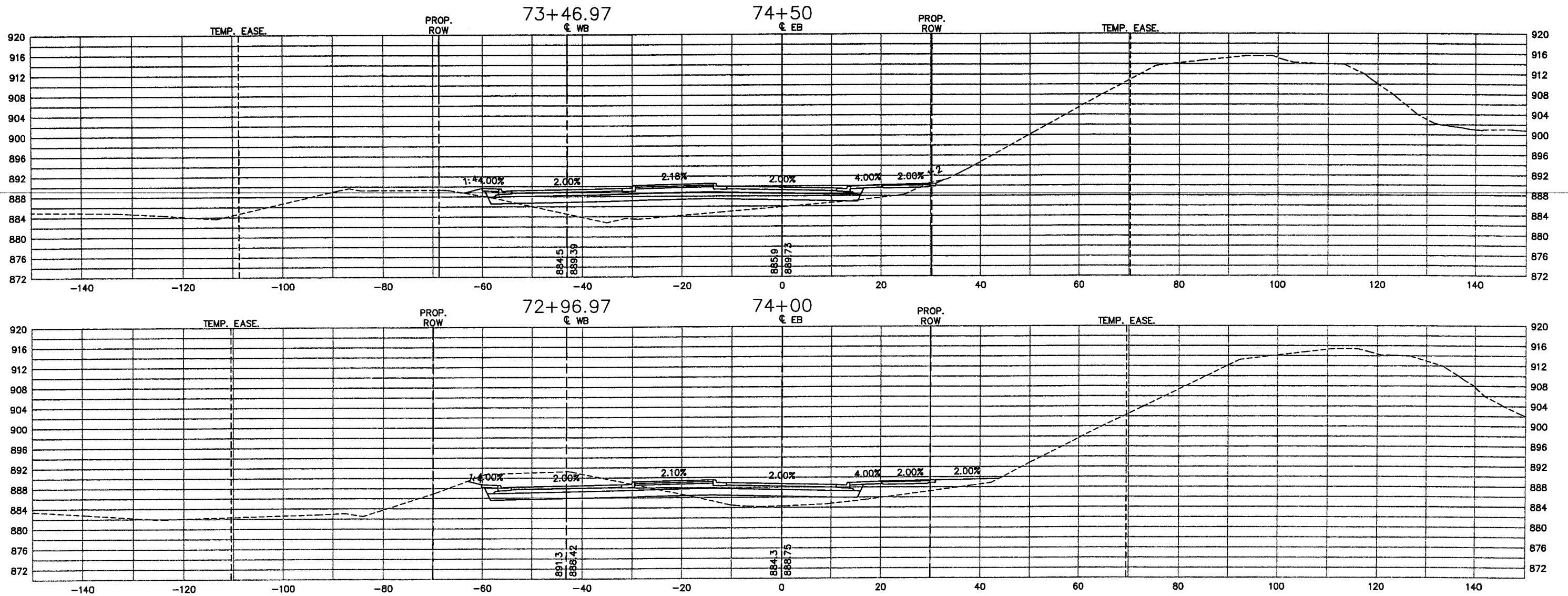
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 73+00 TO STATION 73+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
77
99

PLOT DATE: Jul 01, 2005 9:45am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS14.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS14				
DATE: FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

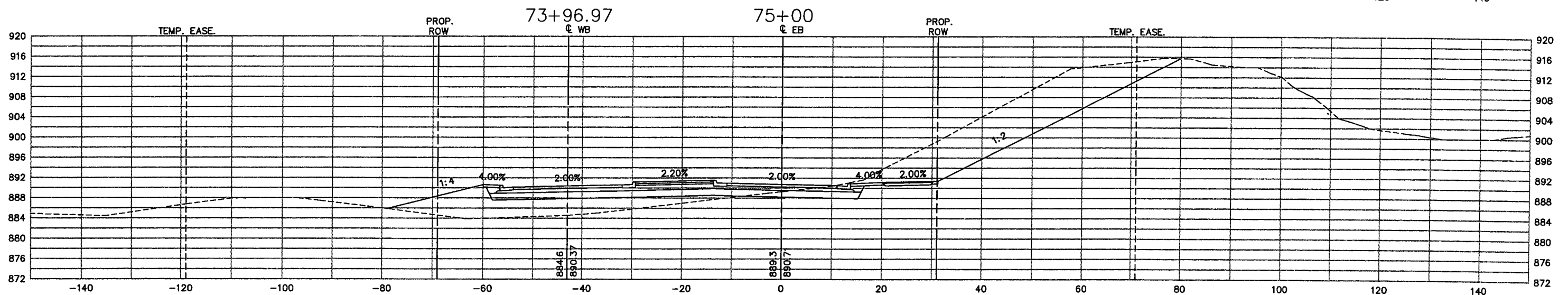
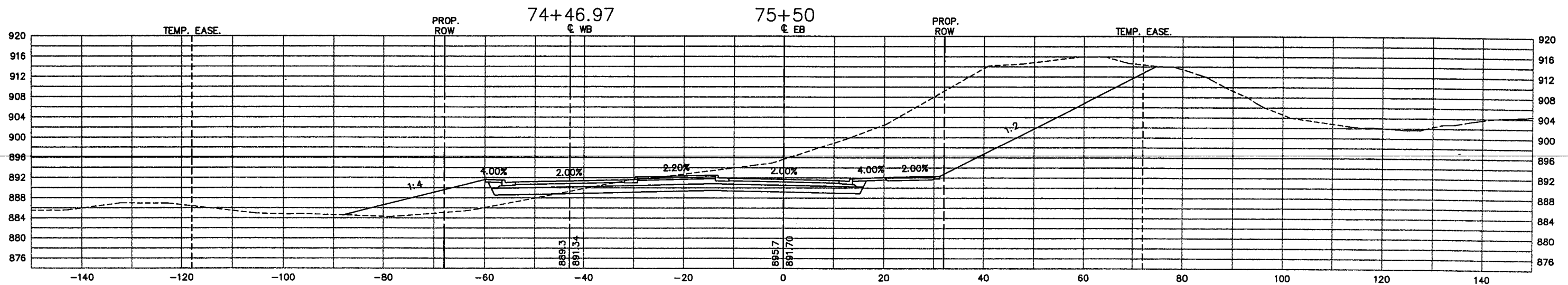
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 74+00 TO STATION 74+50

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO.
78
99

PLOT DATE: Jul 01, 2005 9:46am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS15.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS15				
DATE: FEBRUARY 27, 2004						



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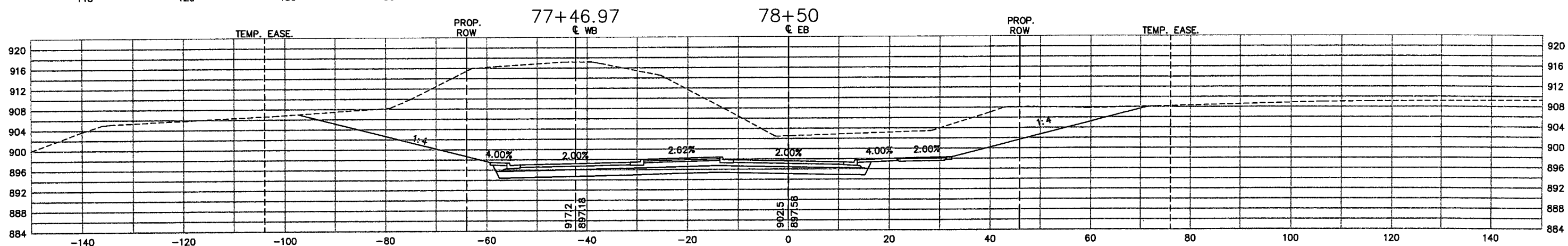
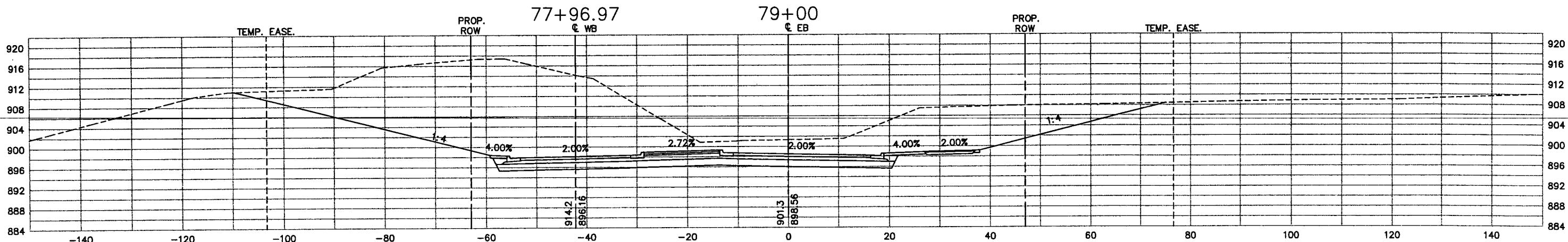
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 75+00 TO STATION 75+50

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		79
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sh1\sections\007-CS15-C.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
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DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/08/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS15-C				
DATE: APRIL 21, 2005						



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Karl P. Keel
KARL P. KEEL

DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 78+50 TO STATION 79+00

CITY PROJECT 02-07

COUNTY PROJECT

S.A.P. 138-121-03

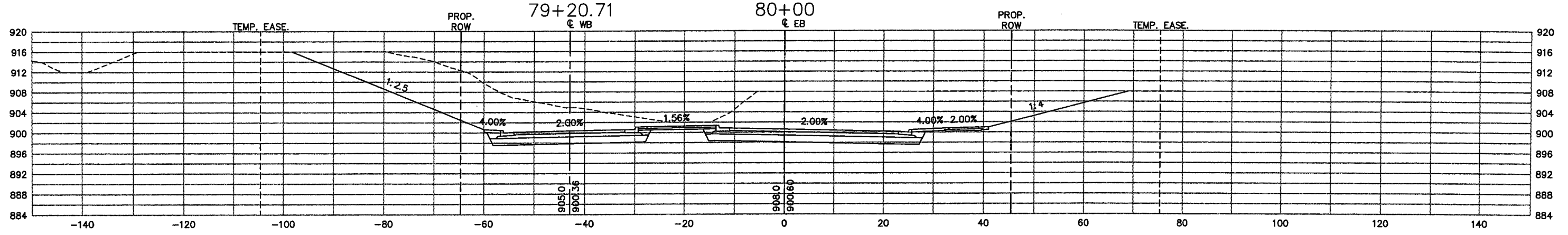
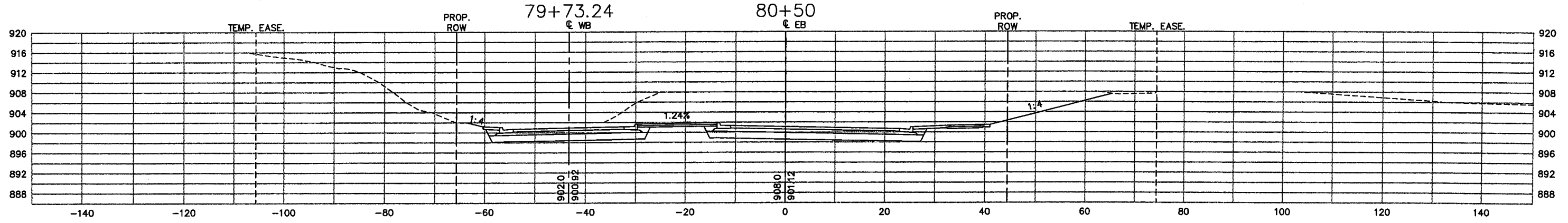
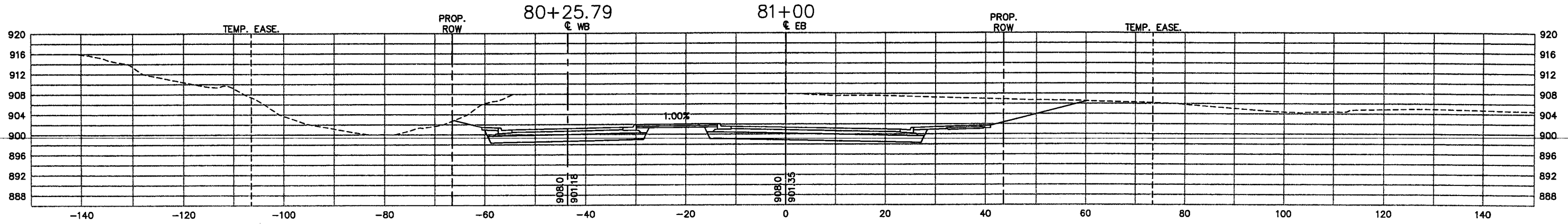
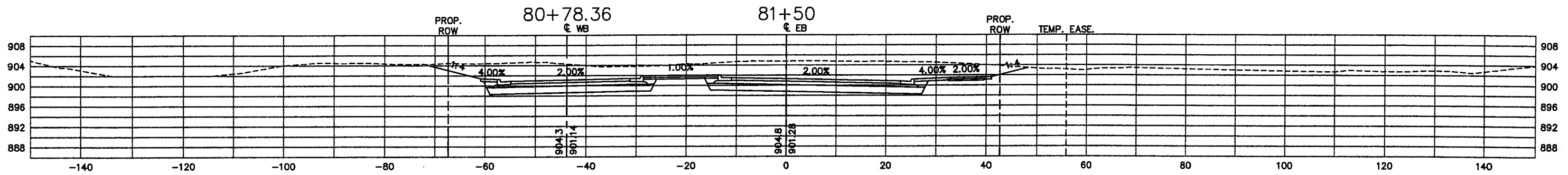
S.A.P. 138-112-05

SHEET NO.

79C

99

PLOT DATE: Jun 20, 2005 5:22pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\pin-sht\SECTIONS\007-CS17.dwg



28.260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHECKED BY:	DWG. NAME:					
NCL	CS17					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

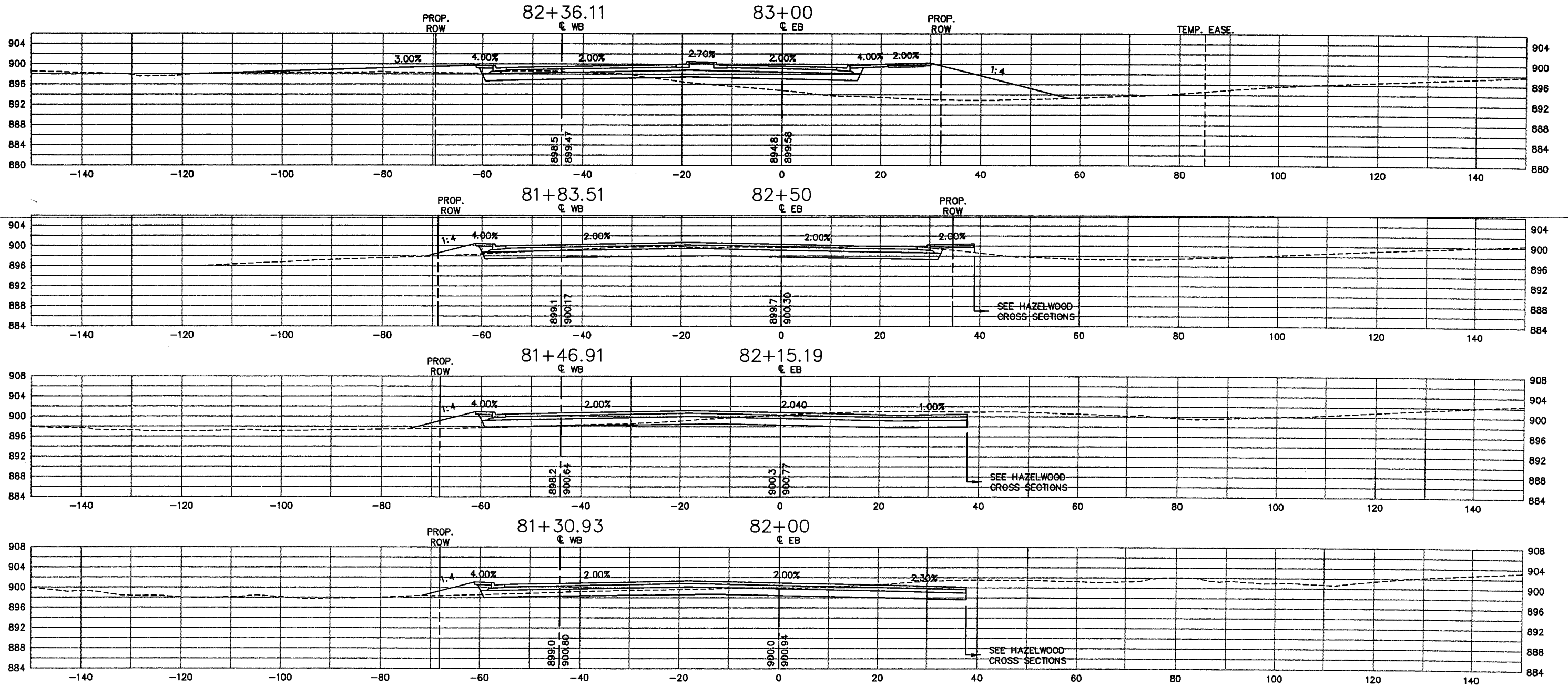
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 80+00 TO STATION 81+50

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		81
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99

PLOT DATE: Jun 20, 2005 5:22pm DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\SECTIONS\007-CS18.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/09/07	AS-BUILT

DESIGN FILE: 43932-007	DESIGN BY: NCL
DRAWN BY: PMJ	DWG. NAME: CS18
CHKD. BY: NCL	DATE: FEBRUARY 27, 2004



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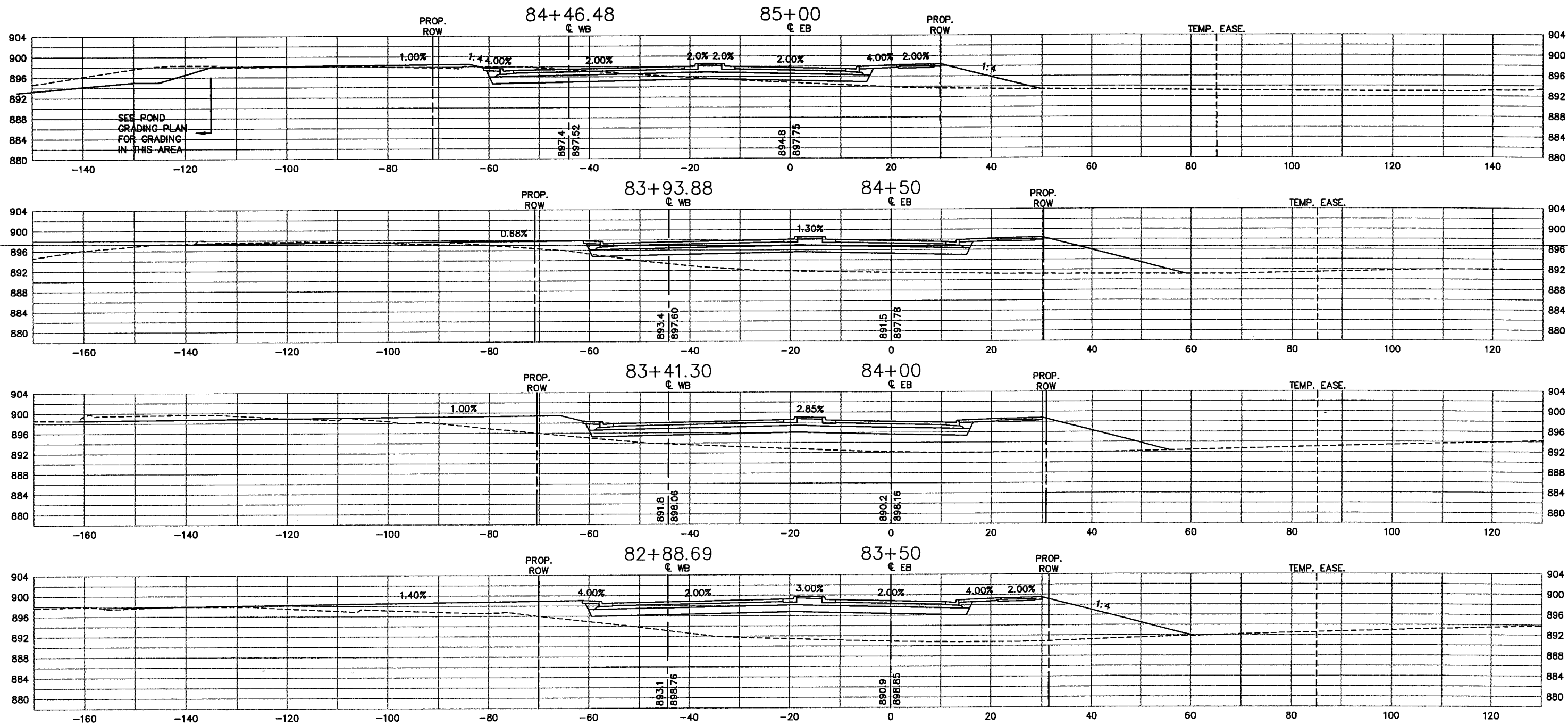
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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 82+00 TO STATION 83+00

CITY PROJECT	02-07	SHEET NO.	82
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Jun 20, 2005 5:22pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS19.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/09/07	AS-BUILT

DESIGN FILE: 43932-007	DESIGN BY: NCL
DRAWN BY: PMJ	DWG. NAME: CS19
CHKD. BY: NCL	DATE: FEBRUARY 27, 2004



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

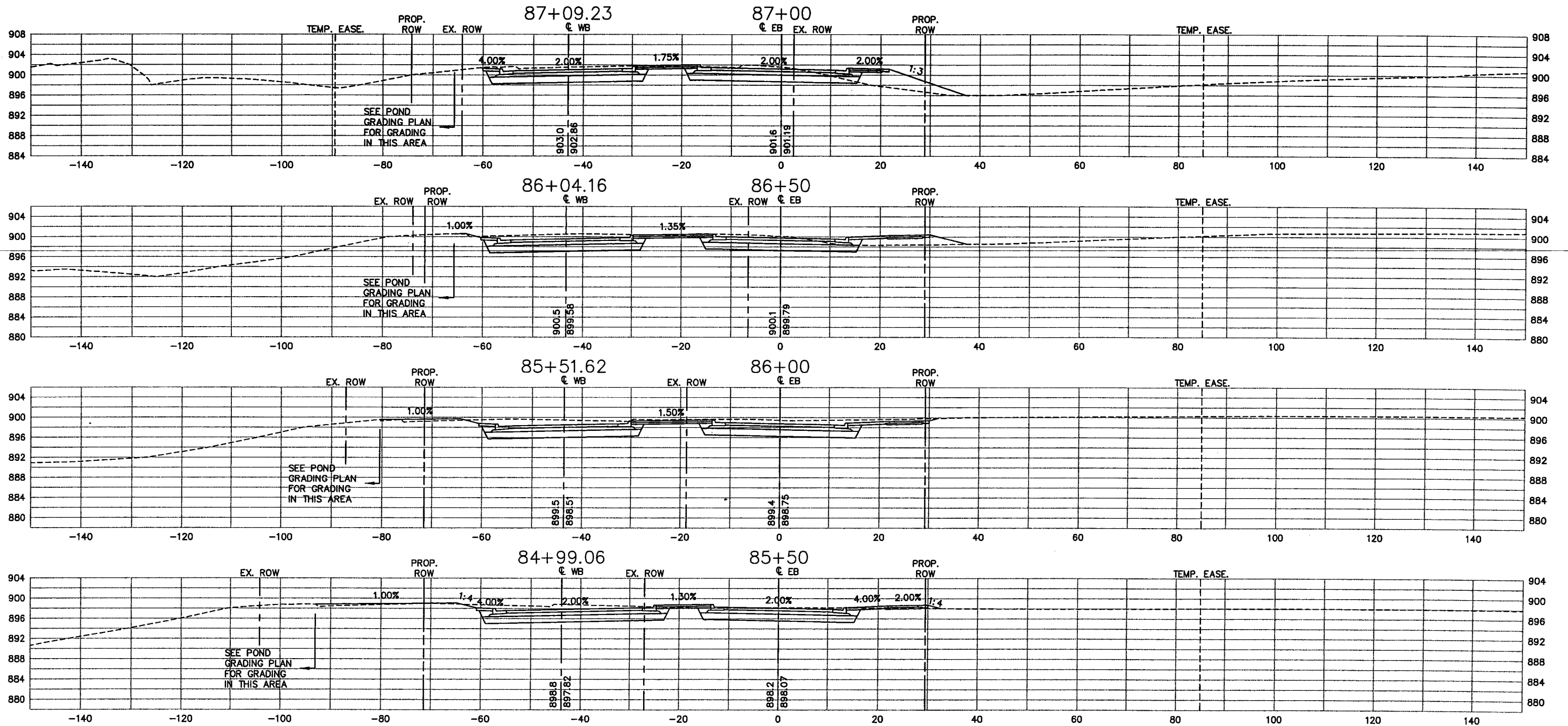
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 83+50 TO STATION 85+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
83
99

PLOT DATE: Jun 20, 2005 5:23pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS20.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/09/07	AS-BUILT

DESIGN FILE: 43932-007	DRAWN BY: PMJ	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: CS20	
DATE: FEBRUARY 27, 2004		



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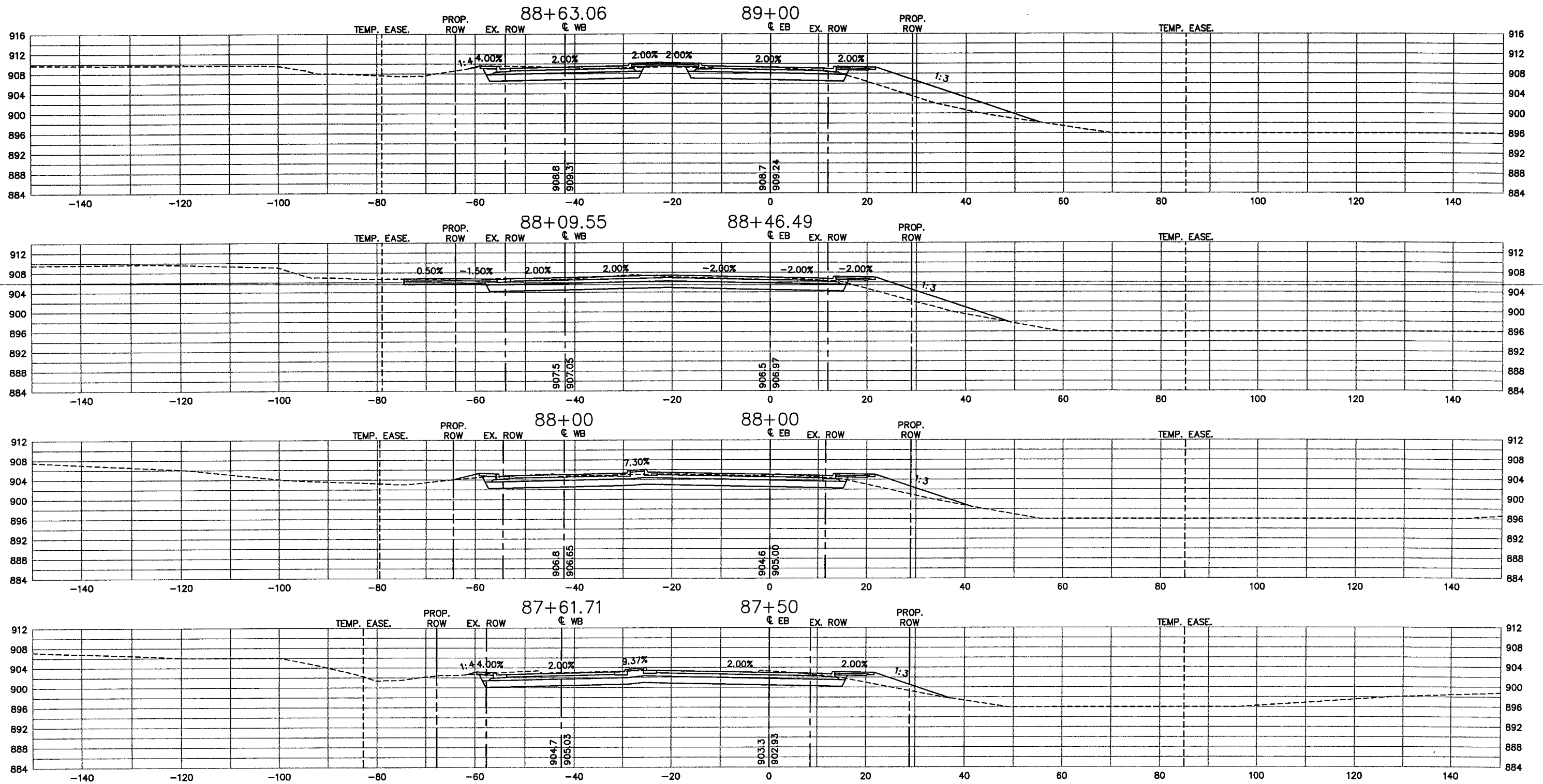
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19881

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 85+50 TO STATION 87+00

CITY PROJECT	02-07	SHEET NO. 84 99
COUNTY PROJECT		
S.A.P.	138-121-03	
S.A.P.	138-112-05	

PLOT DATE: Jun 20, 2005 5:23pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS21.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	T	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	CS21					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL

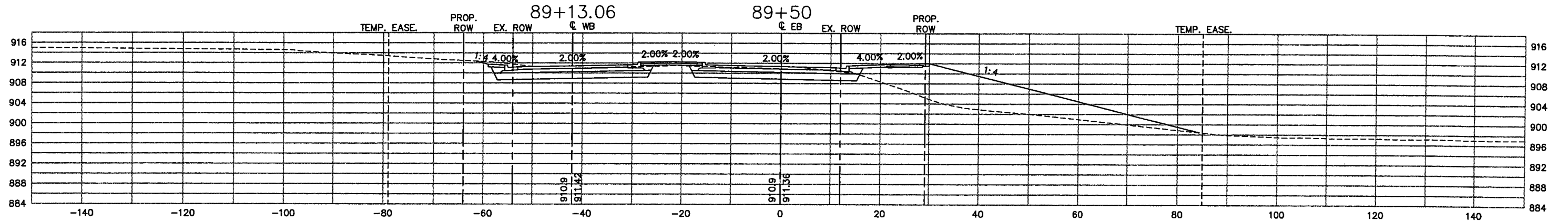
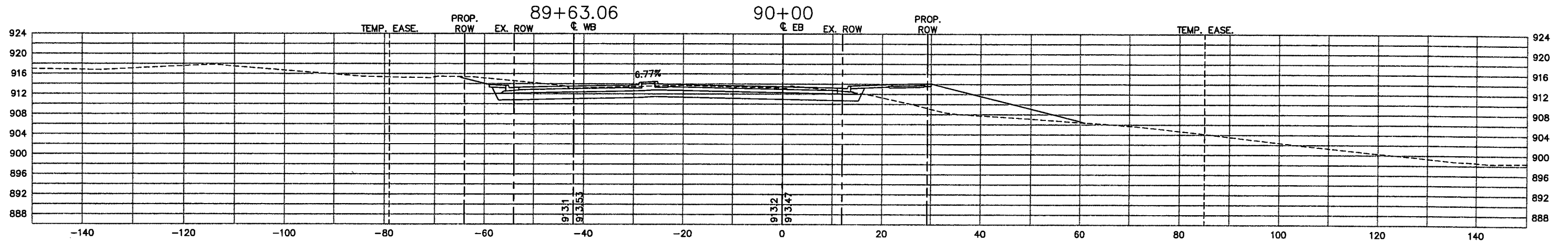
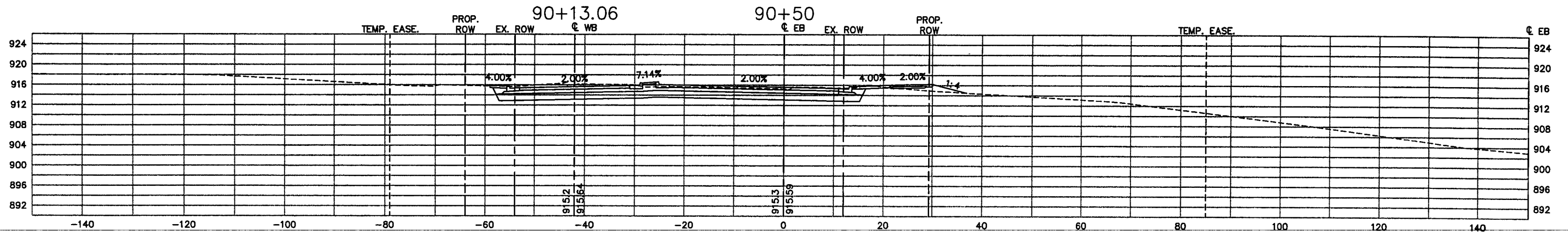
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 87+50 TO STATION 89+00

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		85
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: Jun 20, 2005 5:23pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\SECTIONS\007-CS22.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHECKED BY:	DWG. NAME:					
NCL	CS22					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19881

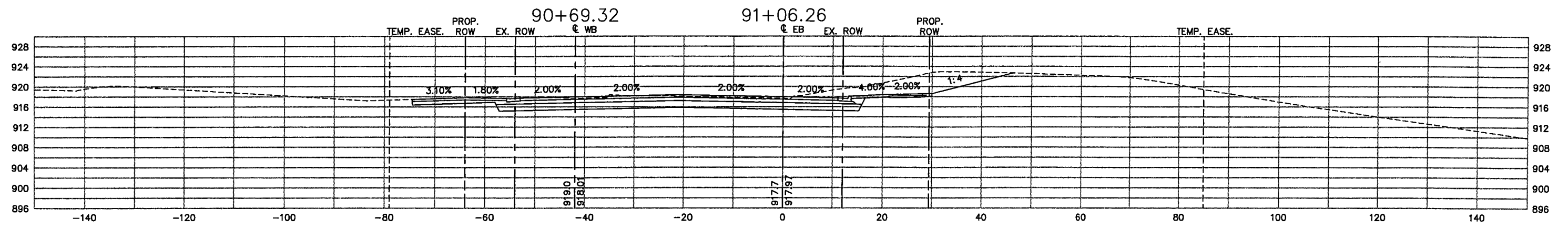
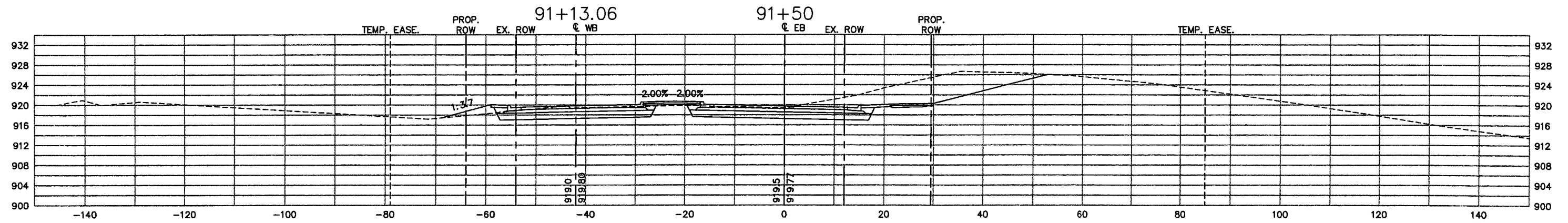
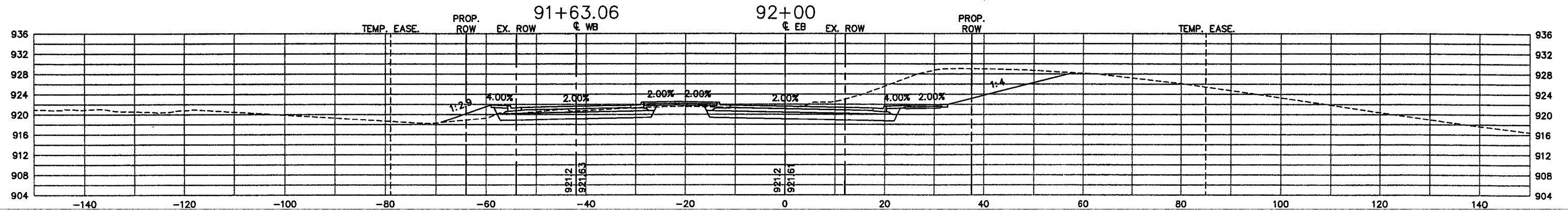
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 89+50 TO STATION 90+50

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		86
S.A.P.	138-121-03	
S.A.P.	138-112-05	

99

PLOT DATE: Jun 20, 2005 5:23pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS23.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	CS23					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL

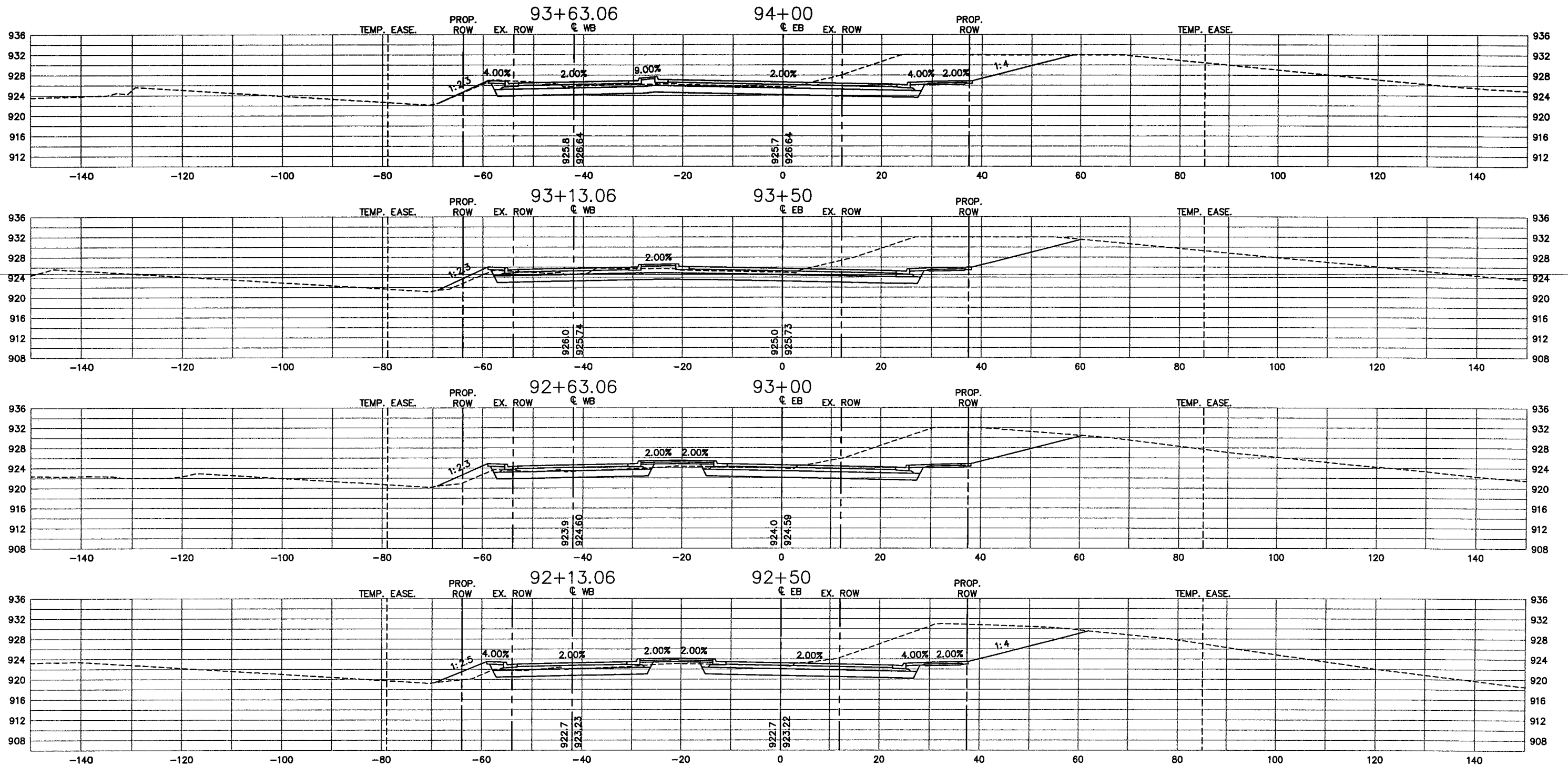
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 91+05.26 TO STATION 92+00

CITY PROJECT	02-07	SHEET NO.	87
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: Jun 20, 2005 5:24pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS24.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/09/07	AS-BUILT

YREF DRAWINGS	DESIGN FILE: 43932-007
CS-CITY-RD-D-E 22x34bdr	
DRAWN BY: PMJ	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: CS24
DATE: FEBRUARY 27, 2004	



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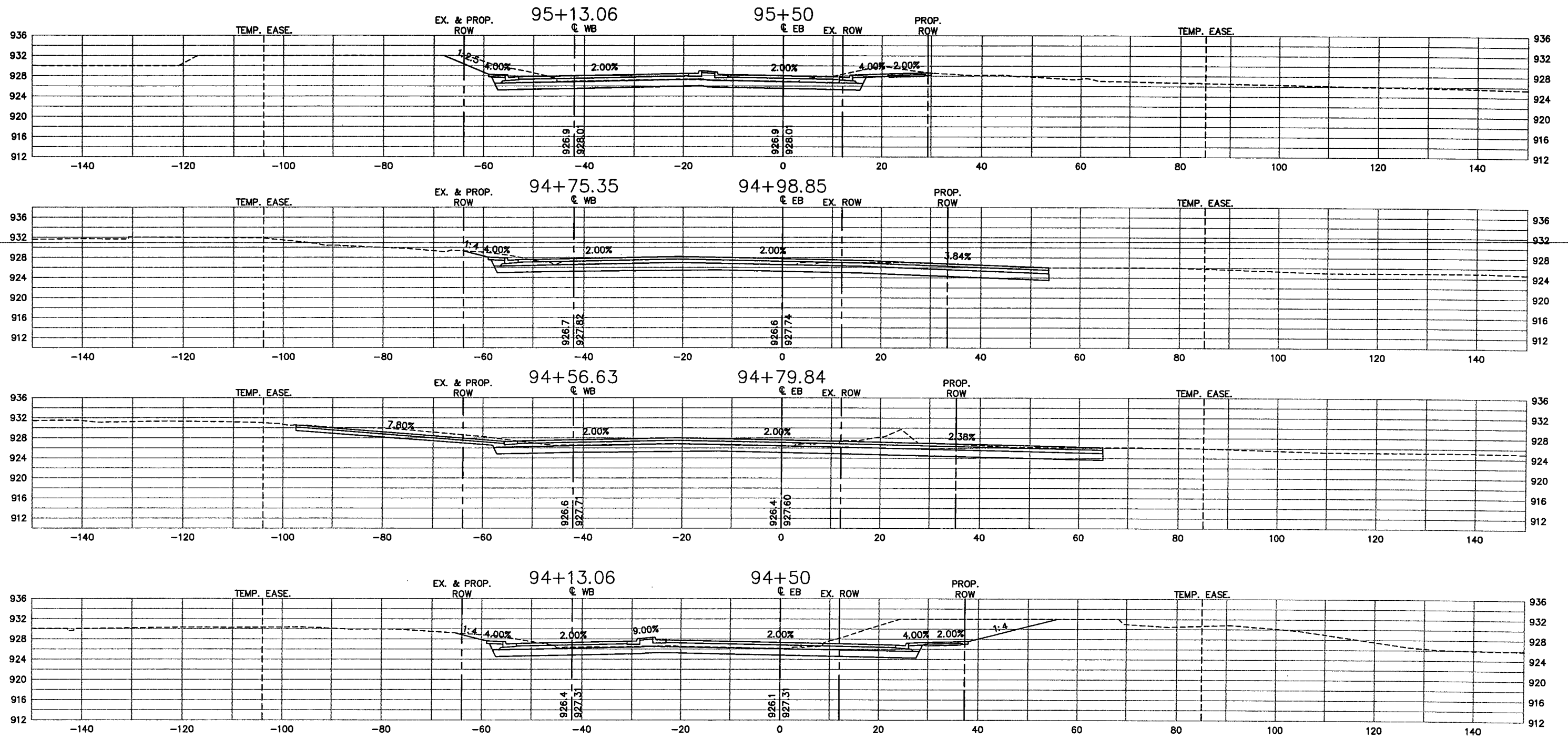
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 92+50 TO STATION 94+00

CITY PROJECT	02-07	SHEET NO.	88
COUNTY PROJECT			99
S.A.P.	138-121-03		
S.A.P.	138-112-05		

PLOT DATE: May 10, 2004 11:58am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\07-pln-sht\SECTIONS\007-CS25.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHECKED BY:	DWG. NAME:					
NCL	CS25					
DATE:						
FEBRUARY 27, 2004						



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612.370.1378 Fax

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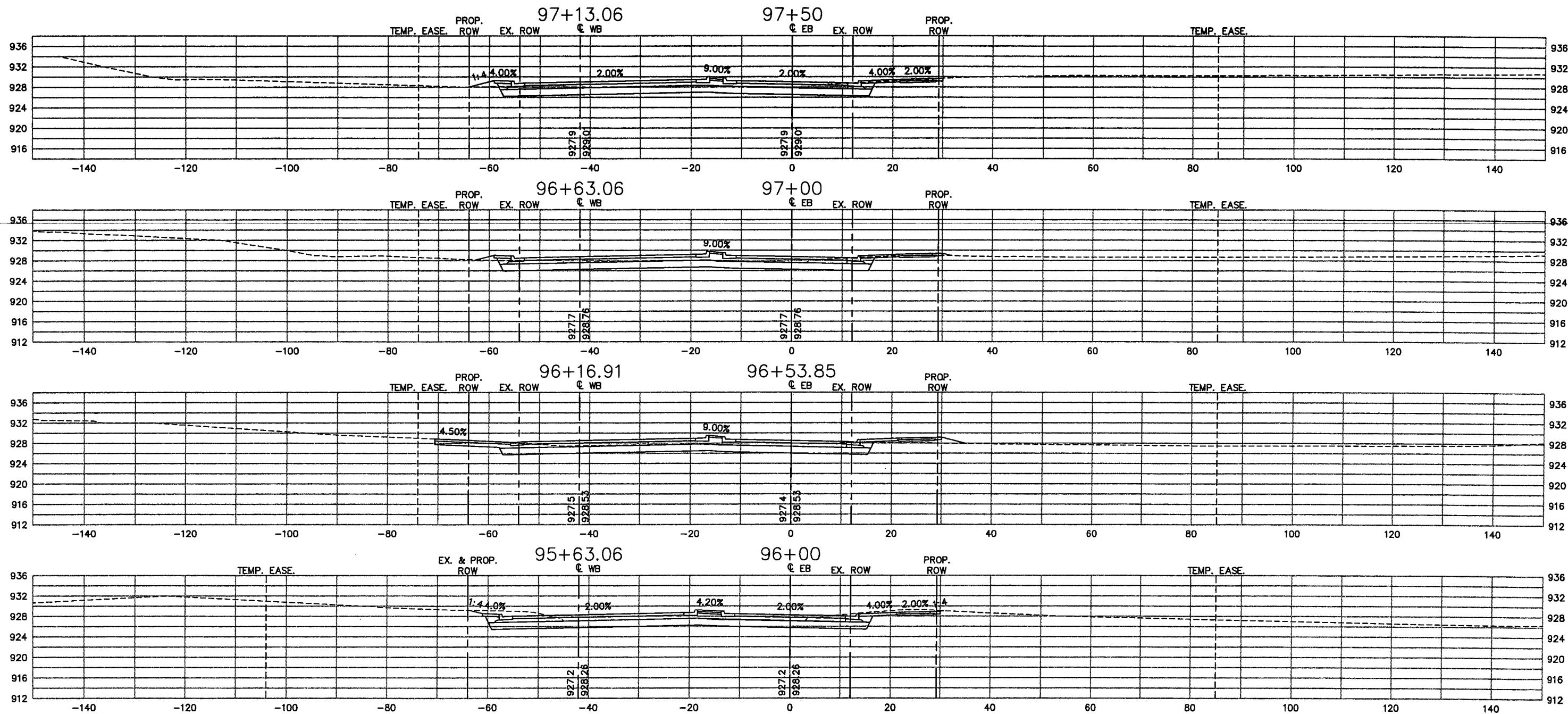
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 94+50 TO STATION 95+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
89
99

PLOT DATE: May 10, 2004 11:59am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sh1\SECTIONS\007-CS26.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHECKED BY:	DWG. NAME:					
NCL	CS26					
DATE:						
FEBRUARY 27, 2004						



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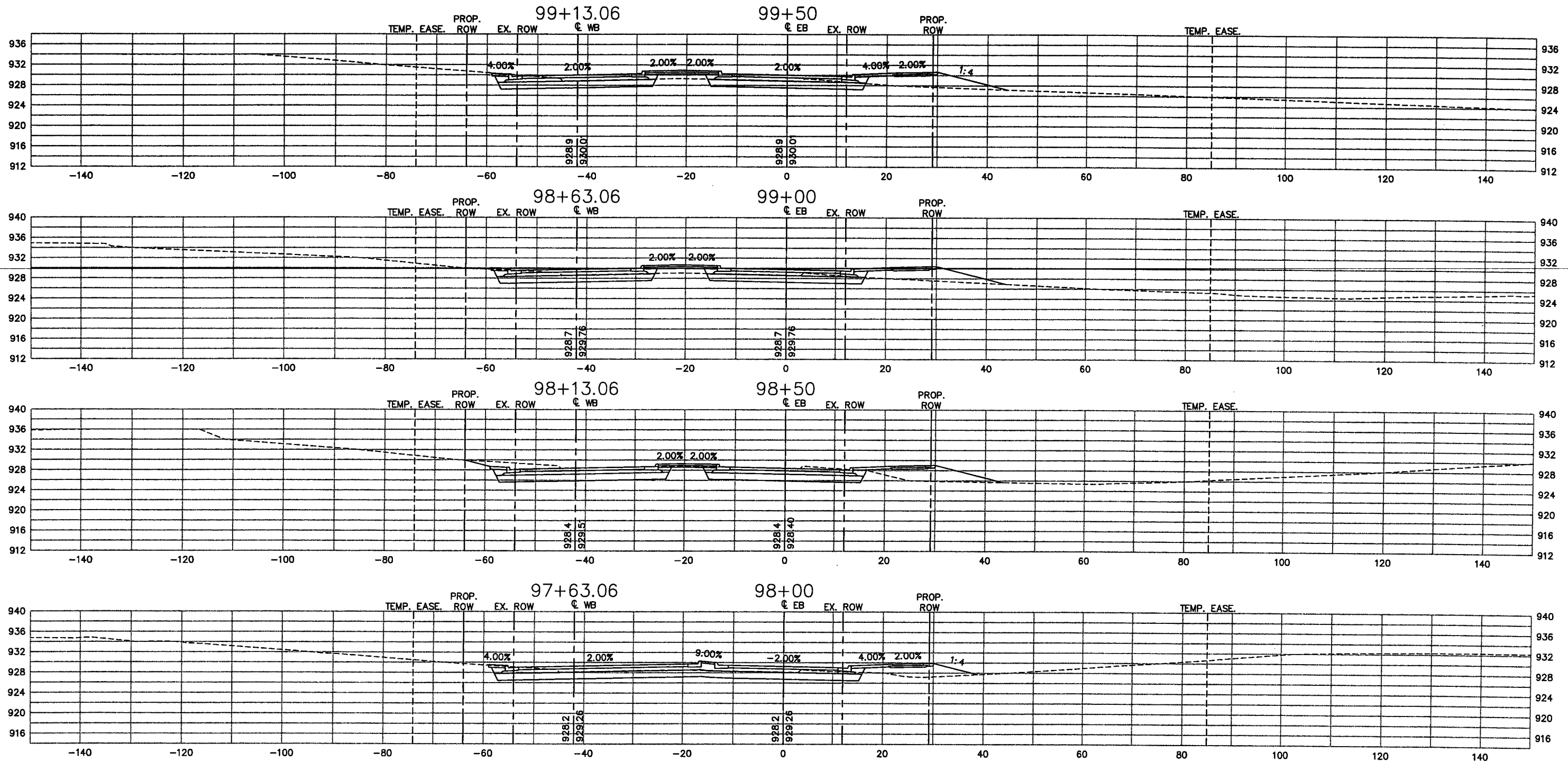
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 96+00 TO STATION 97+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
90
99

PLOT DATE: May 10, 2004 11:59am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS27.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/09/07	AS-BUILT

DESIGN FILE: 43932-007	DRAWN BY: PMJ	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: CS27	DATE: FEBRUARY 27, 2004



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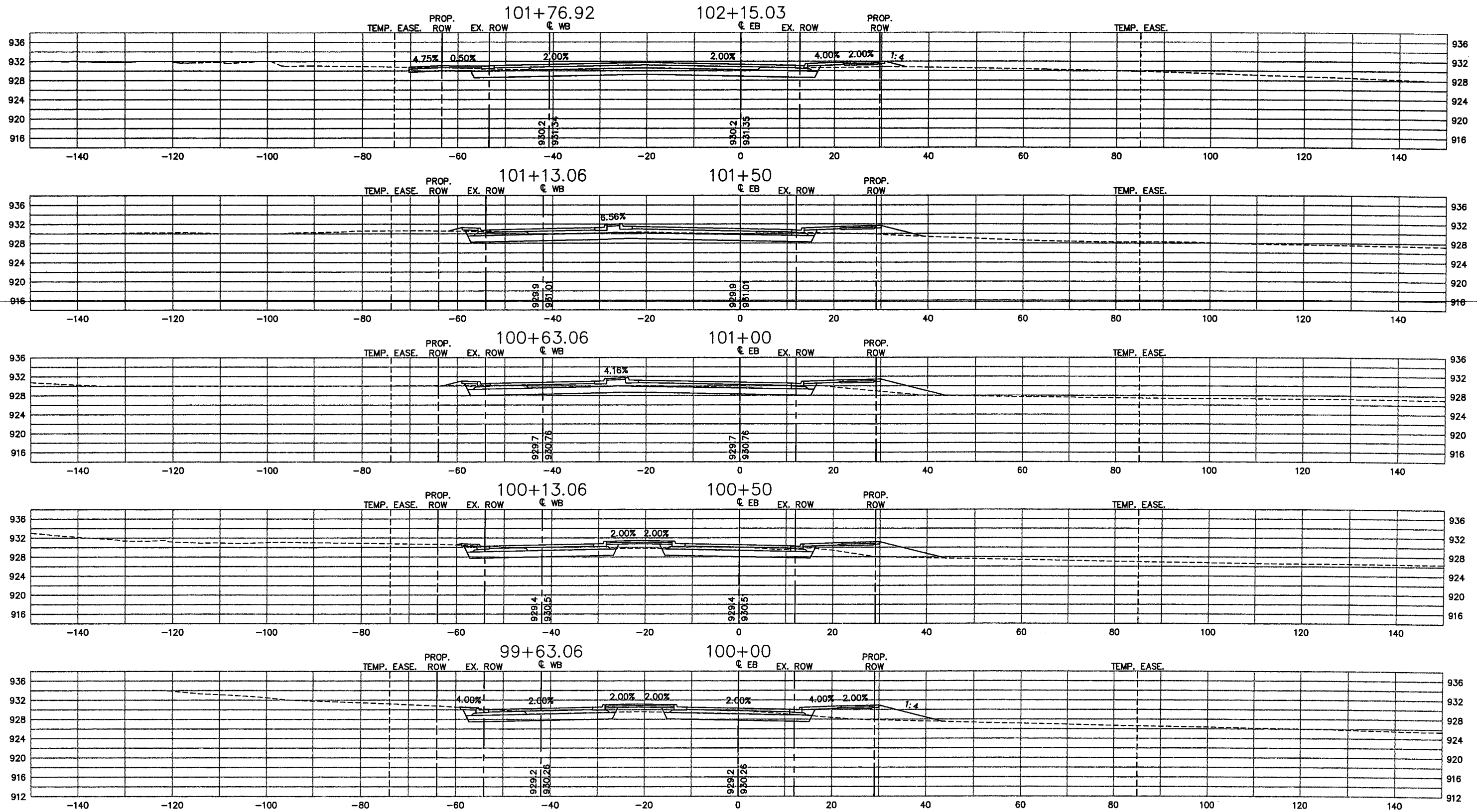
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D
COUNTY ROAD D
CROSS-SECTIONS
STATION 98+00 TO STATION 99+50

CITY PROJECT	02-07
COUNTY PROJECT	138-121-03
S.A.P.	138-112-05

SHEET NO.
91
99

PLOT DATE: May 10, 2004 11:59am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pin-sht\SECTIONS\007-CS28.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	PMJ	05/27/04	REVISED ROADWAY WIDTH STA 101+93 - 105+45
DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHECKED BY: NCL		DWG. NAME: CS28				
DATE: FEBRUARY 27, 2004						



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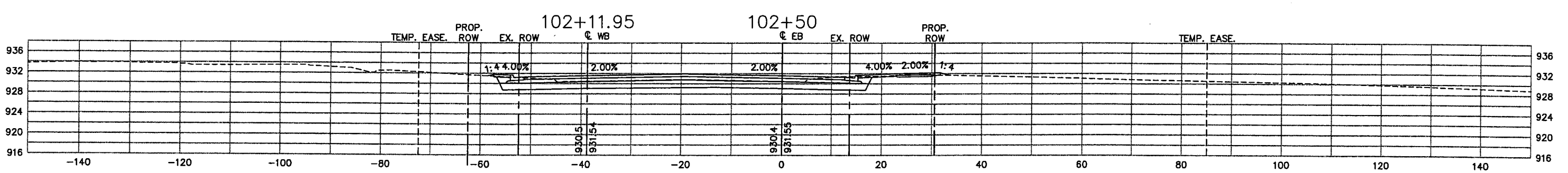
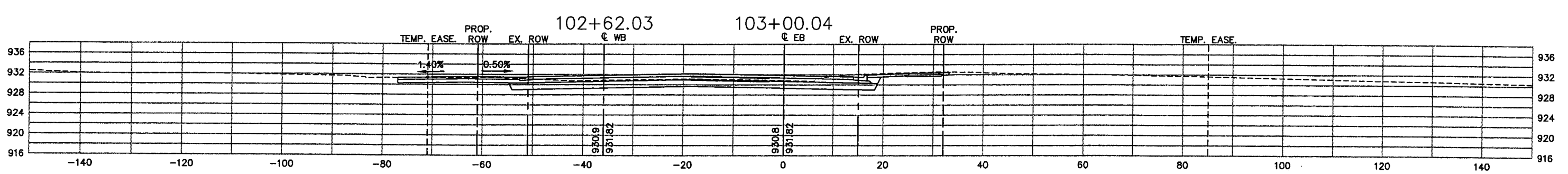
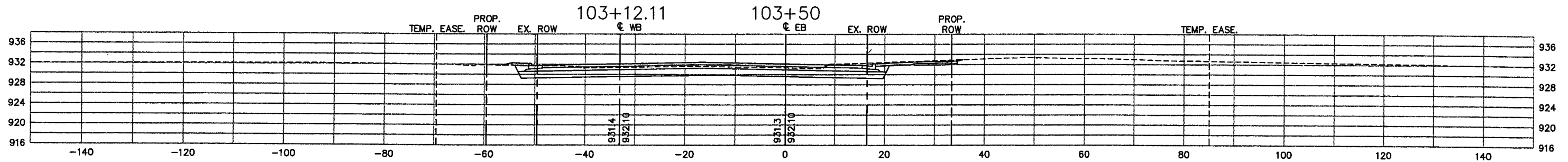
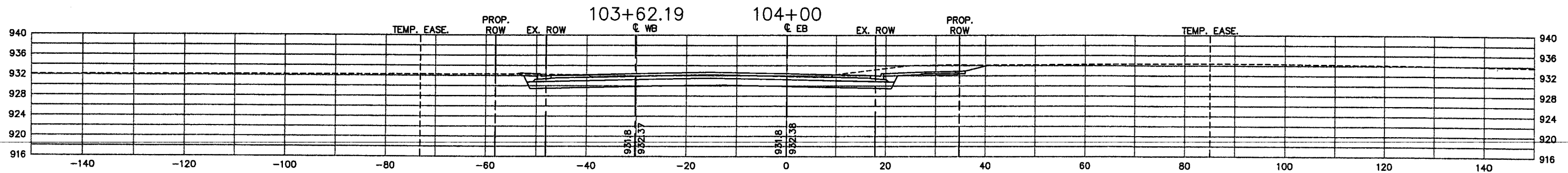
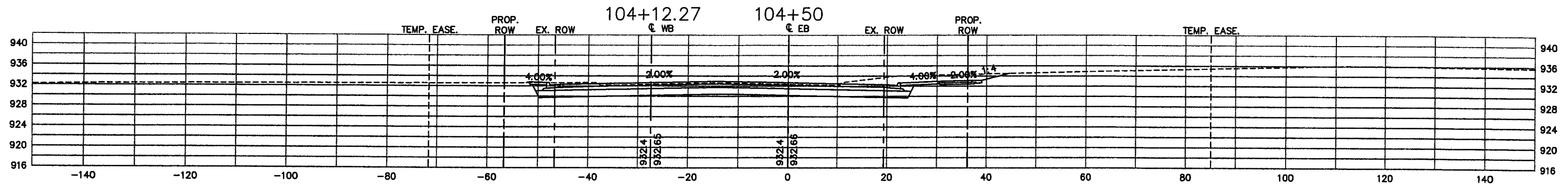
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 100+00 TO STATION 102+15.03

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		92
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: May 10, 2004 11:59am DISK FILE NAME: (15.06) R:\99392007\PLAN-SHT\007-pln-ant\SECTIONS\007-CS29.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	PMJ	05/27/04	REVISED ROADWAY WIDTH STA 101+93 - 105+45
DRAWN BY: PMJ		DESIGN BY: NCL	2	JCD	01/09/07	AS-BUILT
CHKD. BY: NCL		DWG. NAME: CS29				
DATE: FEBRUARY 27, 2004						



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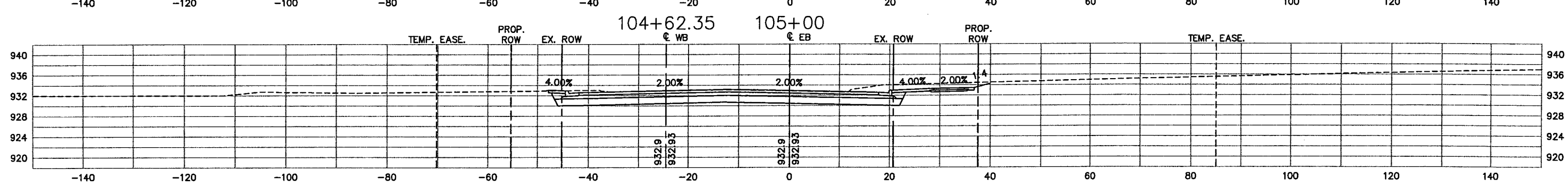
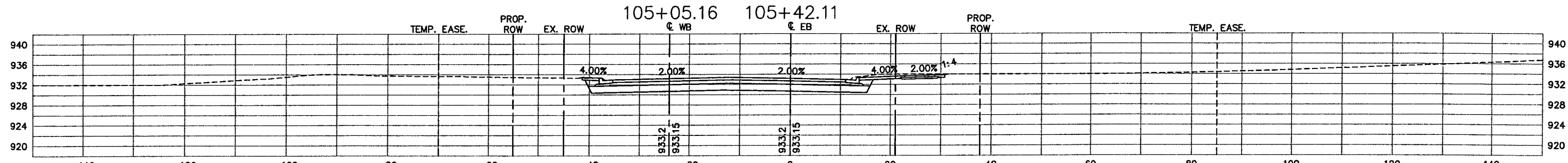
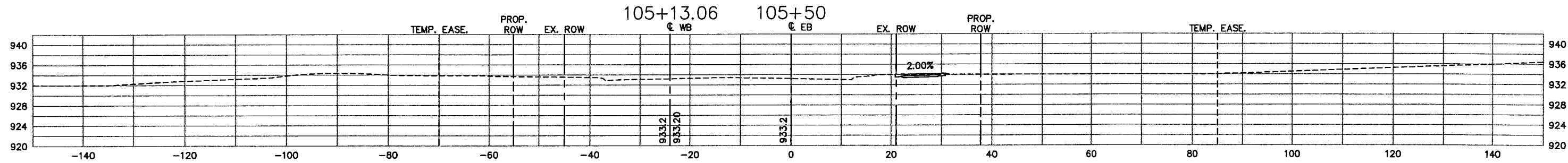
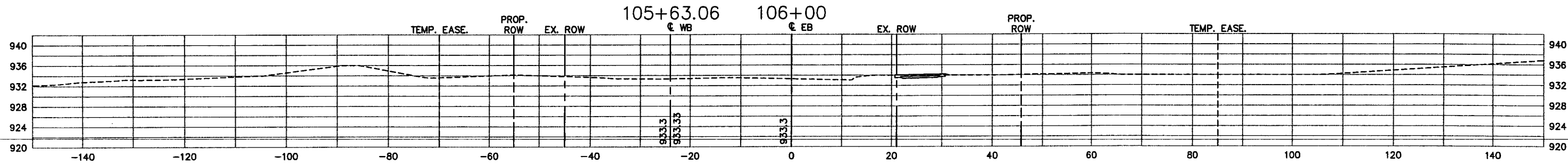
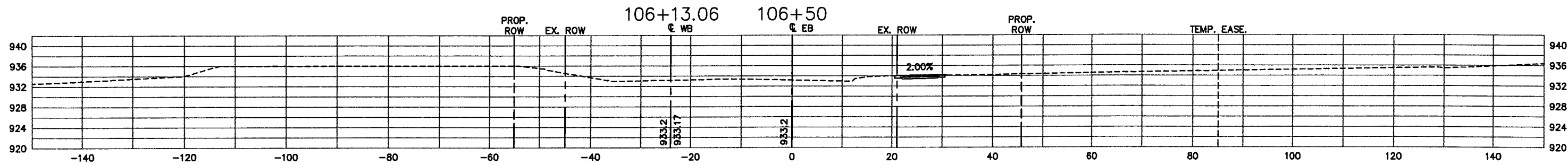
Karl P. Keel
KARL P. KEEL
DATE: 5/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 102+50 TO STATION 104+50

CITY PROJECT	02-07	SHEET NO.
COUNTY PROJECT		93
S.A.P.	138-121-03	
S.A.P.	138-112-05	99

PLOT DATE: May 10, 2004 11:50am DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-ant\SECTIONS\007-CS30.dwg



28-260

XREF DRAWINGS	
CS-CITY-RD-D-E	2x34bdr

DESIGN FILE: 43932-007	DESIGN BY: NCL
DRAWN BY: PMJ	DWG. NAME: CS30
CHECKED BY: NCL	DATE: FEBRUARY 27, 2004

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	PMJ	05/27/04	REVISED ROADWAY WIDTH STA 101+83 - 105+45
2	JCD	01/09/07	AS-BUILT



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19881

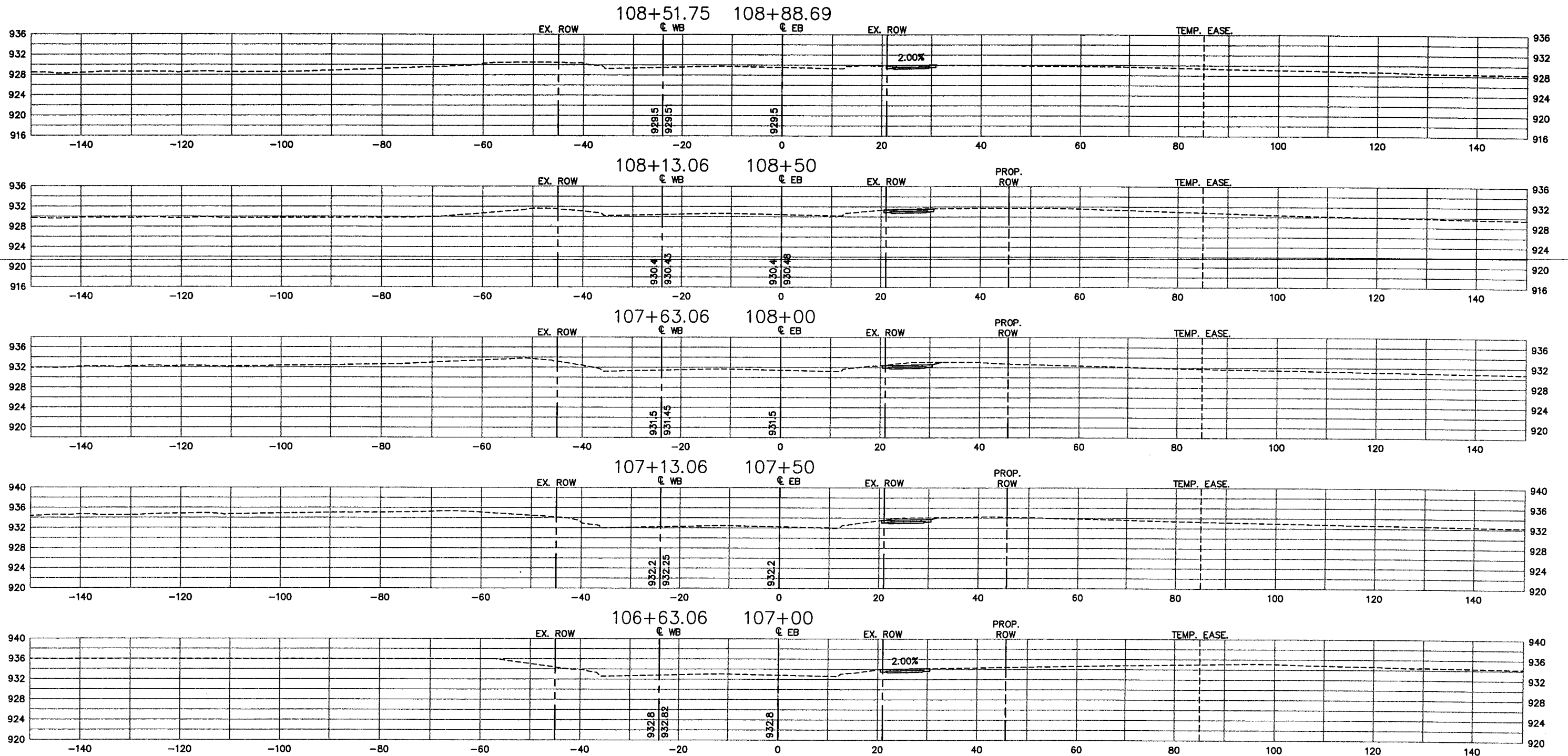
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 105+00 TO STATION 106+50

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
94
99

PLOT DATE: May 10, 2004 12:00pm DISK FILE NAME: (15.06) R:\48392007\PLAN-SHT\007-pln-ant\SECTIONS\007-CS31.dwg



28-260

REV. NO.	BY	DATE	REVISIONS DESCRIPTION
1	JCD	01/08/07	AS-BUILT

DESIGN FILE: 43932-007	DRAWN BY: PMJ	DESIGN BY: NCL
CHKD. BY: NCL	DWG. NAME: CS31	DATE: FEBRUARY 27, 2004



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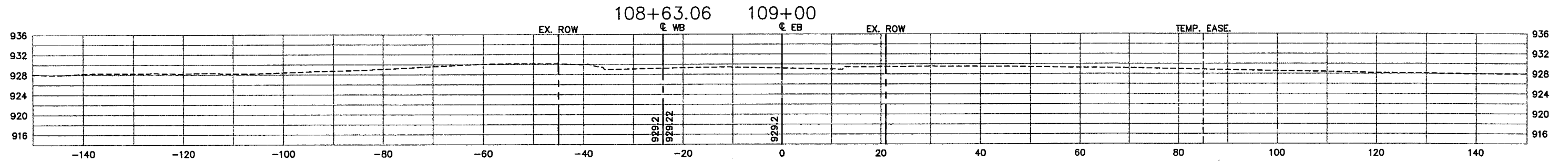
Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 107+00 TO STATION 108+88.69

CITY PROJECT	02-07	SHEET NO. 95
COUNTY PROJECT		
S.A.P.	138-121-03	99
S.A.P.	138-112-05	

PLOT DATE: May 10, 2004 12:00pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CS32.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
25-CITY-RD-D-E 2x34bdr		43932-007	1	JCD	01/08/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	CS32					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL

DATE: 6/30/2005 MN LIC. NO. 19681

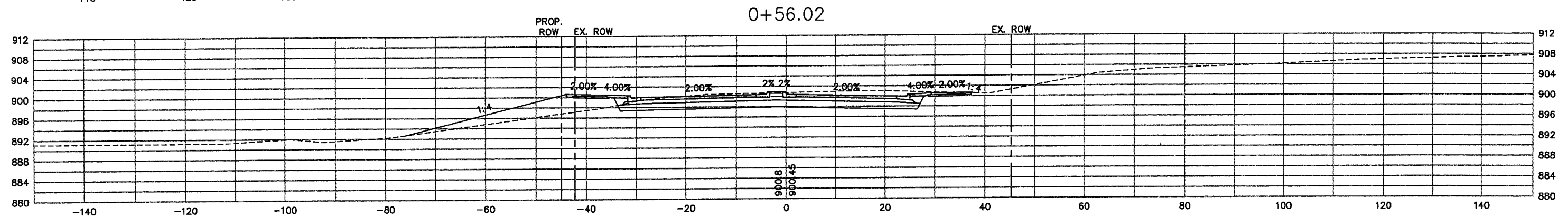
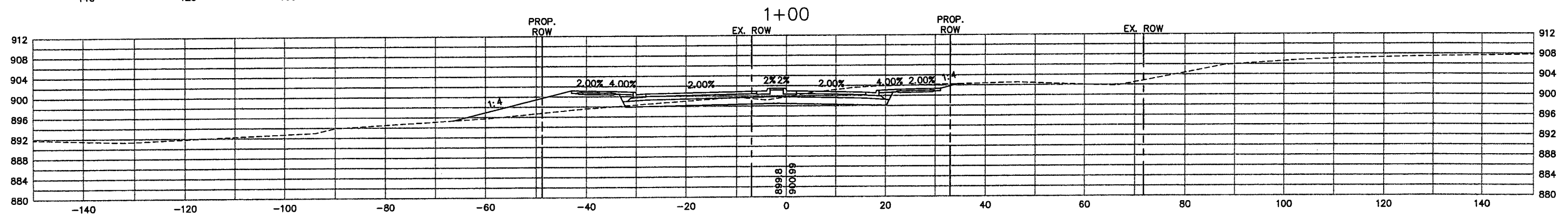
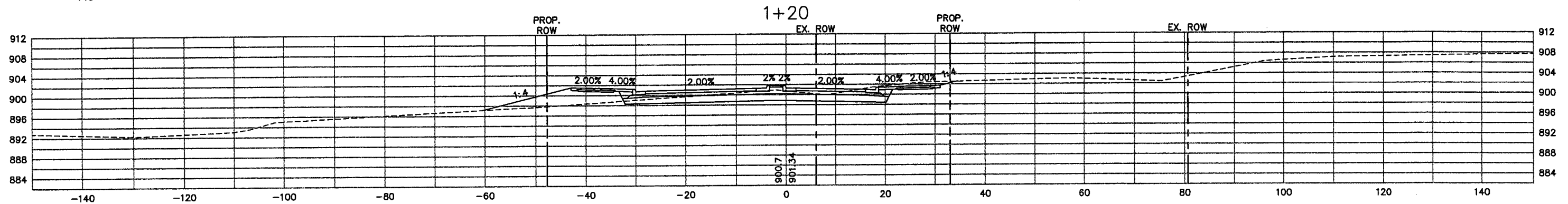
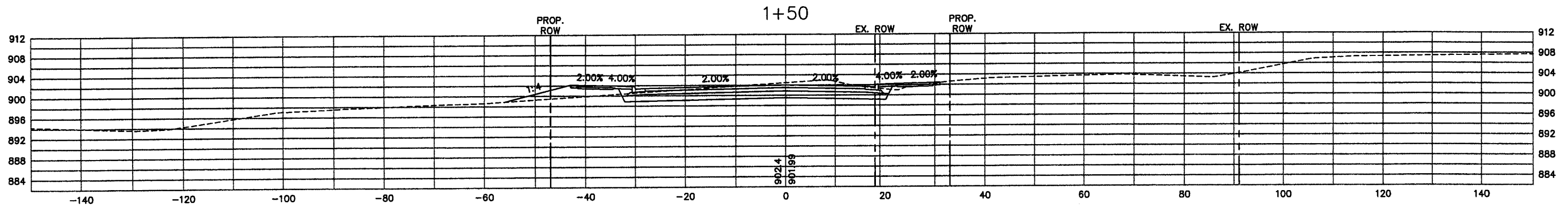
CITY OF MAPLEWOOD
COUNTY ROAD D

COUNTY ROAD D
CROSS-SECTIONS
STATION 109+00

CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.
96
99

PLOT DATE: May 10, 2004 12:00pm DISK FILE NAME: (15,06) R:\9392007\PLAN-SHT\007-pin-ent\SECTIONS\007-CS50.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	JCD	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	CS50					
DATE:						
FEBRUARY 27, 2004						



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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

HAZELWOOD STREET
CROSS-SECTIONS
STATION 0+56.02 TO STATION 1+50

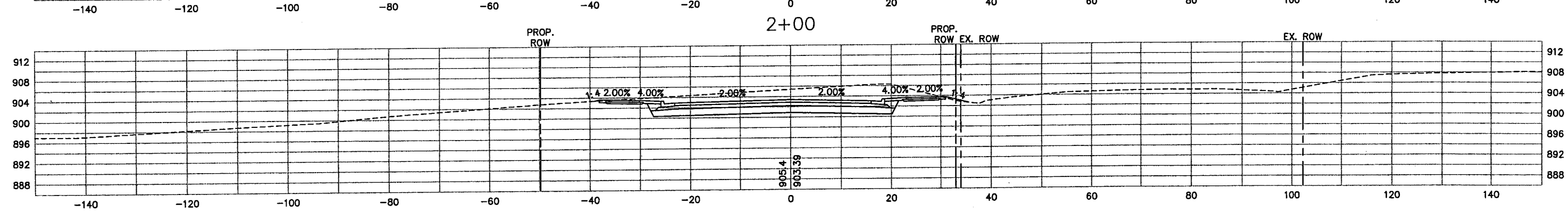
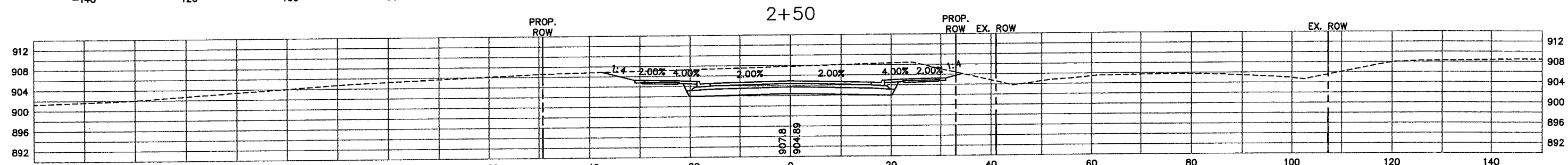
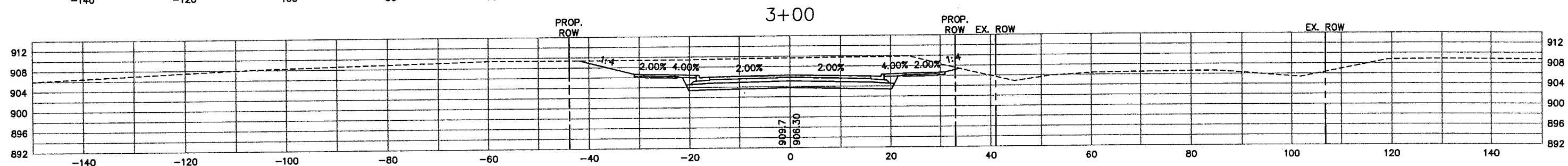
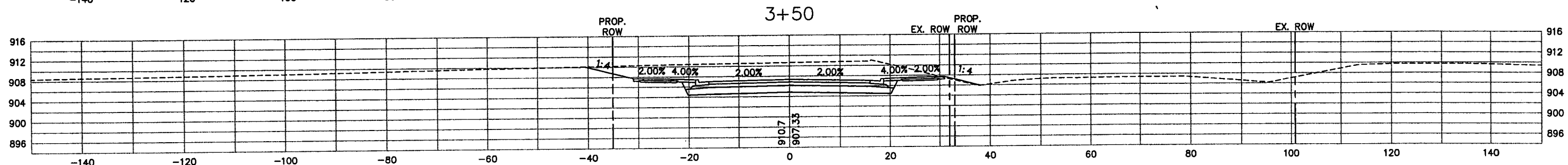
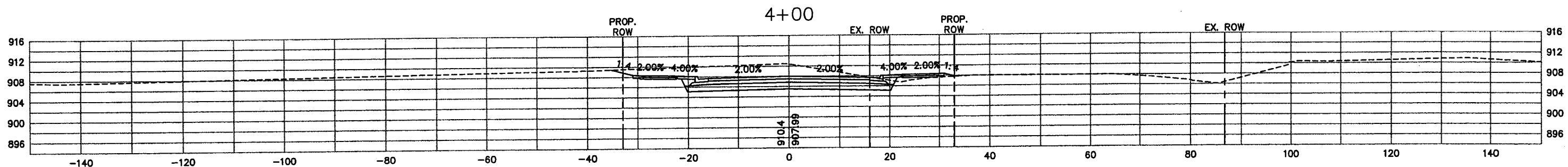
CITY PROJECT	02-07
COUNTY PROJECT	
S.A.P.	138-121-03
S.A.P.	138-112-05

SHEET NO.

97

99

PLOT DATE: May 10, 2004 12:01pm DISK FILE NAME: (15.06) R:\49392007\PLAN-SHT\007-pln-sht\SECTIONS\007-CSS1.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 22x34bdr		43932-007	1	JCO	01/09/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKED. BY:	DWG. NAME:					
NCL	CSS1					
DATE:						
FEBRUARY 27, 2004						



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612-370.0700 Tel
612-370.1378 Fax

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Karl P. Keel
KARL P. KEEL
DATE: 6/30/2005 MN LIC. NO. 19681

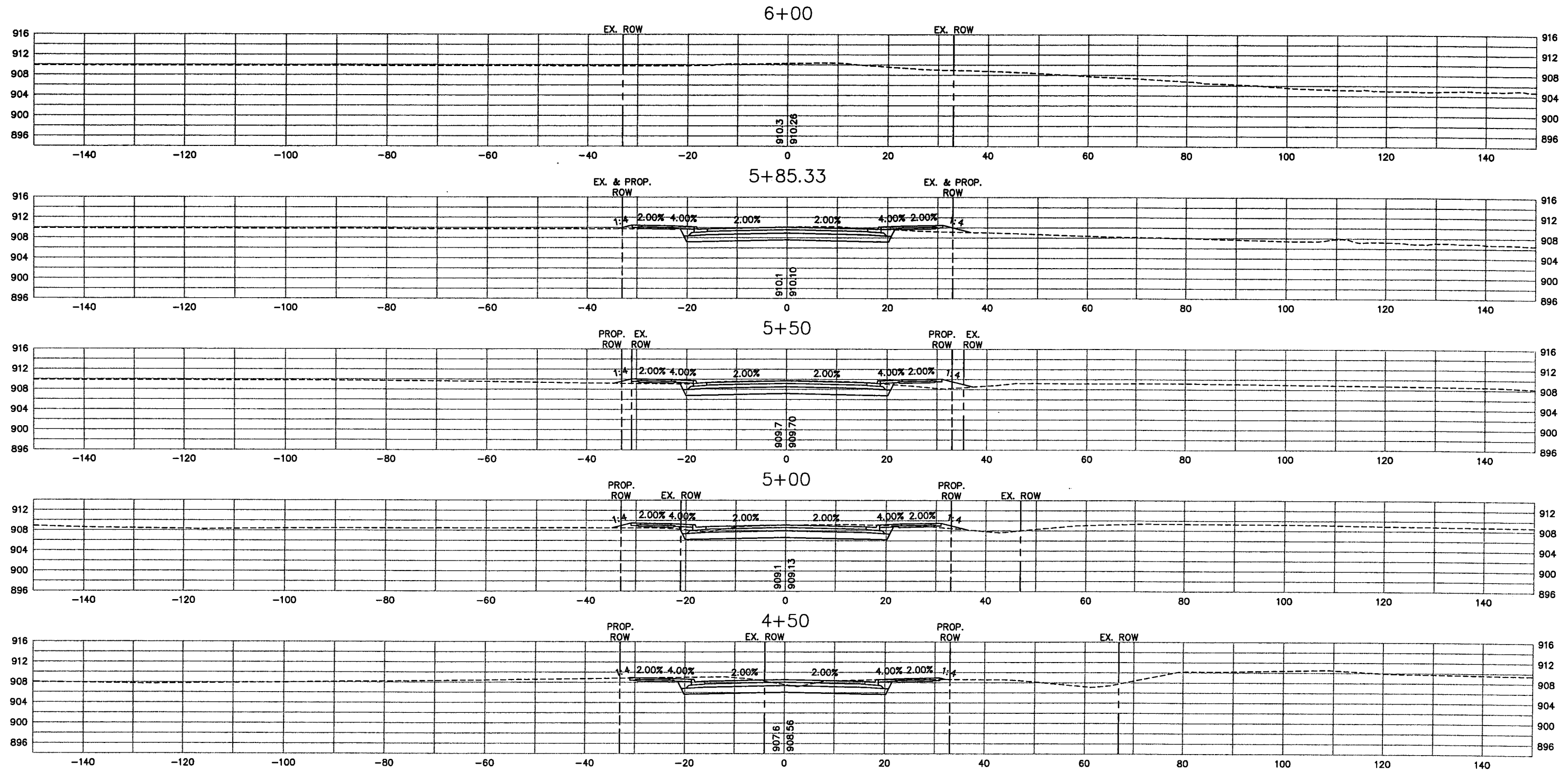
CITY OF MAPLEWOOD
COUNTY ROAD D

HAZELWOOD STREET
CROSS-SECTIONS
STATION 2+00 TO STATION 4+00

CITY PROJECT 02-07
COUNTY PROJECT
S.A.P. 138-121-03
S.A.P. 138-112-05

SHEET NO.
98
99

PLOT DATE: Mar 29, 2004 11:15am DISK FILE NAME: R:\49392007\plan-sht\sections\007-CS52.dwg



28-260

XREF DRAWINGS		DESIGN FILE:	REV. NO.	BY	DATE	REVISIONS DESCRIPTION
CS-CITY-RD-D-E 2x34bdr		43932-007	1	JCD	01/08/07	AS-BUILT
DRAWN BY:	DESIGN BY:					
PMJ	NCL					
CHKD. BY:	DWG. NAME:					
NCL	CS52					
DATE:						
FEBRUARY 27, 2004						



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612.370.0700 Tel
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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.

Karl P. Keel
KARL P. KEEL

DATE: 6/30/2005 MN LIC. NO. 19681

CITY OF MAPLEWOOD
COUNTY ROAD D

HAZELWOOD STREET
CROSS-SECTIONS
STATION 4+50 TO STATION 6+17.84

CITY PROJECT 02-07 SHEET NO.

COUNTY PROJECT 99

S.A.P. 138-121-03

S.A.P. 138-112-05

99