

PUBLIC STREET IMPROVEMENTS

FOR

COUNTY ROUTE 2

FROM K-32 TO KANSAS AVENUE

LEAVENWORTH COUNTY, KANSAS

SUMMARY OF QUANTITIES

PUBLIC STORM IMPROVEMENTS	UNIT	QTY.
15" CMP	LF	922
18" CMP	LF	441
30" CMP	LF	24
18" RCP	LF	280
24" RCP	LF	221
30" RCP	LF	16
36" RCP	LF	72
42" RCP	LF	72
4' X 4' Area Inlet	EACH	2
6' X 4' Curb Inlet	EACH	2
18" RC End Section	EACH	1
18" RC End Section	EACH	8
24" RC End Section	EACH	5
36" RC End Section	EACH	2
42" RC End Section	EACH	2
50# Rip Rap	SY	155

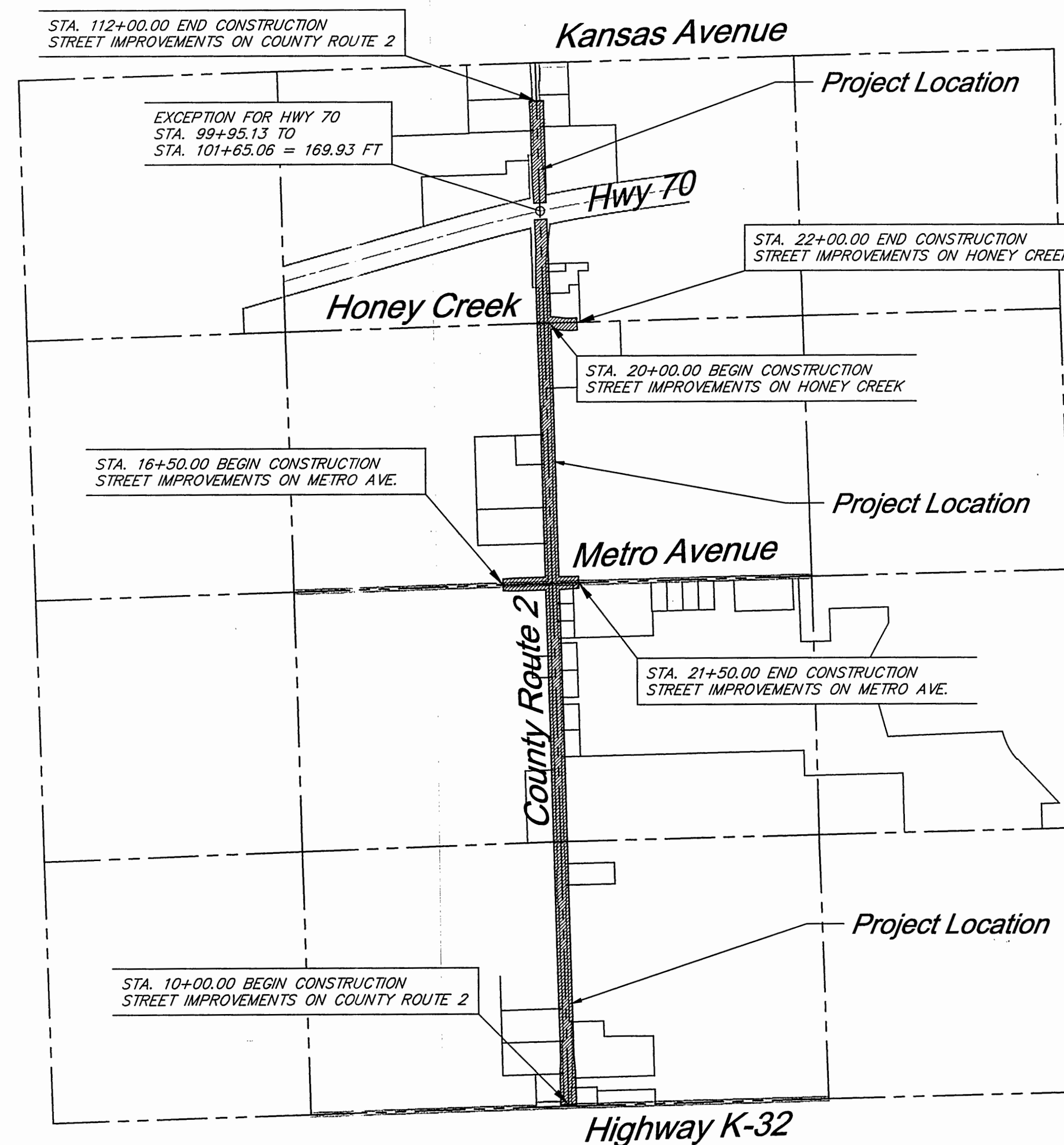
PUBLIC STREET IMPROVEMENTS	UNIT	QTY.
2" KDOT BM-2 Asphalt Surface (Street)	SY	40,005
6" KDOT BM-2B Asphalt Base (Street)	SY	40,005
2" KDOT BM-2 Asphalt Surface (Driveway)	SY	2,789
4" KDOT BM-2B Asphalt Base (Driveway)	SY	2,789
4" AB-3 Granular Subbase (Route 2)	SY	46,297
6" AB-3 (Driveway)	SY	309
8" AB-3 (Metro and Honey Creek)	SY	1,404
Curb & Gutter (All Types)	LF	875
Clearing, Grubbing, & Grading	LS	1
Fence Relocation		
3 Tier PVC Fence	LF	81
Barbed Wire Fence	LF	3,363
Barbed Wire / Woven Wire Fence	LF	2,759
Wrought Iron Fence	LF	299
3 Tier Wood Fence	LF	690
Spur Fence	LF	291
Horse Fence	LF	279
Temporary Fence	LF	1,761
Gate Relocation	EACH	1
Guardrail	LF	904
Traffic Control	LS	1
Erosion Control	LS	1
Pavement Marking	LS	1
Seeding	ACRE	12

LIST OF DRAWINGS

- 1 COVER SHEET
- 2 CONTROL SHEET
- 3-10 ROUTE 2 PLAN & PROFILES
- 11 SIDE ROAD PLAN & PROFILES
- 12 DRAINAGE MAP
- 13 STORM SEWER PLAN & PROFILES
- 14-18 INTERSECTION & DRIVEWAY ENTRANCE DETAILS
- 19-21 STANDARD DETAILS
- 22-40 CROSS SECTIONS
- 41-42 FENCE DETAILS

UTILITIES

Cable Sunflower Broadband 785-841-2720	Telephone SBC 888-544-8847	Gas Atmos Energy (913) 441-0063
Water Rural Water Dist. #7 913-441-1205	Telephone Alltel Communications 800-501-1888	Kansas One-Call (Dig Safe) 800-344-7233
Water Suburban Water 913-724-1800	Telephone Broadwing Communications 800-441-0223	
Telephone Wiltel Communications 888-265-2283	Power Westar Energy 785-575-6300	



LEGEND

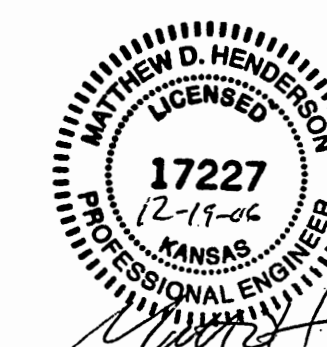
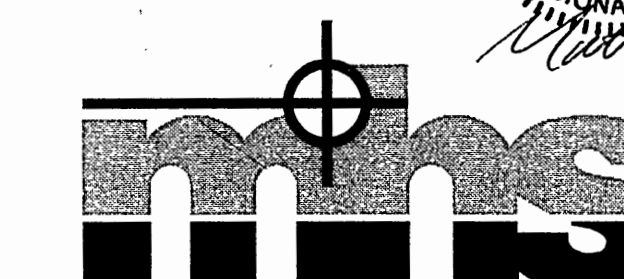
-----	SECTION LINE
-----	CENTER LINE
--- GAS --- GAS --- GAS --- GAS	GAS LINE
-----	EDGE GRAVEL
--- OHW --- OHW --- OHW --- OHW	OVERHEAD WIRE LINE
--- SAN --- SAN --- SAN --- SAN	SANITARY SEWER LINE
--- UGE --- UGE --- UGE --- UGE	UNDERGROUND ELECTRICAL LINE
--- UGT --- UGT --- UGT --- UGT	UNDERGROUND TELEPHONE LINE
--- WAT --- WAT --- WAT --- WAT	WATER LINE
-----	FENCE LINE
-----	TREE LINE
-----	PROPOSED ROADWAY
-----	PROPOSED ASPHALT DRIVE
-----	PROPOSED GRAVEL DRIVE
	DECIDUOUS TREE SIZES ARE DIA.
	CONIFEROUS TREE SIZES ARE DIA.
	SIGN
	LIGHT POLE
	ELECTRICAL BOX
	FIRE HYDRANT
	WATER METER
	TELEPHONE BOX
	GUY ANCHOR
	POWER POLE
	LARGE ROCK
	TREE REMOVAL

Approved By:

County Engineer
Leavenworth County, Kansas

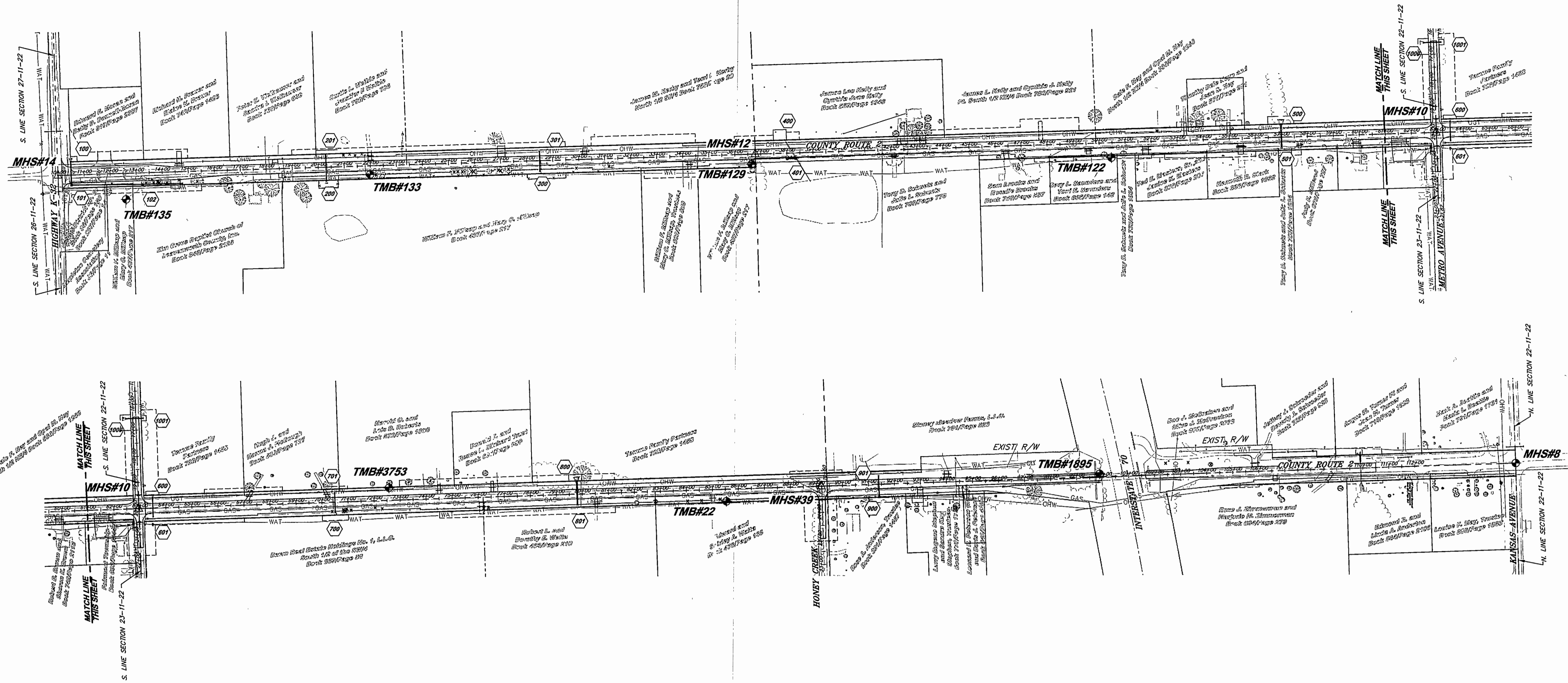
DATE

PREPARED BY:



McAFEE, HENDERSON & STRICK, INC.

Civil Engineering + Land Surveying
360 Santa Fe Leavenworth, KS 66048
Ph: (913) 651-6100 Fax: (913) 651-4178



MHS CONTROL POINT 14
 N: 278604.91 E: 2179446.48
 3/8 SPIKE 0.4' BELOW SURFACE
 STA. 10+00 COUNTY ROUTE 2
 1) 63.7' SW TO A PK FND IN NORTH FACE TREE
 2) 57.0' NW TO A 60D FND IN EAST FACE POWER POLE
 3) 65.0' NE TO A PK & WASHER (LS-655) FND NW FACE CHURCH SIGN
 4) 8.8' S TO APPARENT CENTERLINE K-32

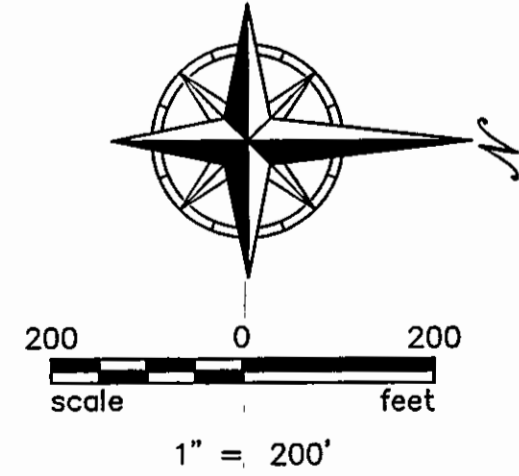
MHS CONTROL POINT 12
 N: 281283.29 E: 2179374.37
 STA. 36+79.35 COUNTY ROUTE 2, 0.01' RT
 120 SPIKE W/WASHER
 1) 39.90' W TO A 60D FND IN TOP OF 10" POST
 2) 39.25' E TO A PK NAIL FND IN TOP OF CNR POST
 3) 33.41' E TO A 1/2 BAR
 4) 0.20' E TO CENTERLINE COUNTY ROUTE 2

MHS CONTROL POINT 10
 N: 283899.53 E: 2179297.00
 STA. 62+96.59 COUNTY ROUTE 2, 0.16' RT
 5/8" BAR 3" +/- BELOW GRADE
 1) 46.76' SE TO NAIL & CAP IN POWER POLE
 2) 43.24' SW TO NAIL & CAP IN POWER POLE
 3) 53.85' SE TO 60 D IN NW FACE POWER POLE
 4) 39.75' NW TO SE CORNER CONC. PILLAR

MHS CONTROL POINT 39
 N: 286542.73 E: 2179219.95
 STA. 89+19.91 COUNTY ROUTE 2
 1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2
 1) 32.65' W TO PK FND IN NORTH FACE POWER POLE
 2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE
 3) 53.85' SE TO 60 D IN NW FACE POWER POLE
 4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT

MHS CONTROL POINT 8
 N: 289188.55 E: 2179137.21
 3" ALUMINUM DISC IN MONUMENT BOX
 1) 95.85' SW TO A PK FND NE FACE POWER POLE
 2) 67.05' SE TO A PK FND NW FACE POWER POLE
 3) 70.45' NE TO A 1/2 BAR WITH CAP 1373
 4) 5.20' W TO CENTERLINE 158TH

TBM#135 ELEV=935.49	CHISELED "d" ON CONCRETE BASE OF LIGHT POLE IN PARKING LOT OF ELM GROVE CHURCH, 100' EAST FROM Q. COUNTY ROUTE 2 AND 1.9 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS
TBM#133 ELEV=943.20	"T" POST, 1" BELOW GRADE, 35' EAST FROM INTERSECTION COUNTY ROUTE 2 & DRIVEWAY HOUSE # 15775 AND 1.75 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE
TBM#129 ELEV=938.08	"T" POST, 1" BELOW GRADE, 39' EAST FROM Q. COUNTY ROUTE 2 AND 14' SOUTH FROM END OF PICKET FENCE RUNNING NORTH & SOUTH.
TBM#122 ELEV=957.92	"T" POST, 1" BELOW GRADE, 49' EAST FROM Q. COUNTY ROUTE 2 AND 1.25 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 92' NORTH FROM DRIVEWAY HOUSE # 16190
TBM#110 ELEV=961.32	1/2" IRON BAR, 1" BELOW GRADE, AT INTERSECTION OF COUNTY ROUTE 2 & METRO AVENUE, 1.0 MILE SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE
TBM#3753 ELEV=967.92	"T" POST, 1" BELOW GRADE, 0.85 MILE SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 50' WEST FROM Q. COUNTY ROUTE 2 AND 220' SOUTH FROM Q. OF DRIVEWAY HOUSE # 16547
TBM#22 ELEV=973.85	"T" POST, 1" BELOW GRADE, 0.60 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 46' WEST FROM Q. COUNTY ROUTE 2 AND 51.5' NORTH FROM Q. OF DRIVEWAY HOUSE # 16718
TBM#1895 ELEV=995.01	CHISELED "d" ON SW CORNER OF BRIDGE OVER I-70, 0.3 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 12' WEST FROM Q. OF COUNTY ROUTE 2
TBM#8 ELEV=967.70	ALUMINUM CAP IN MONUMENT BOX AT INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE



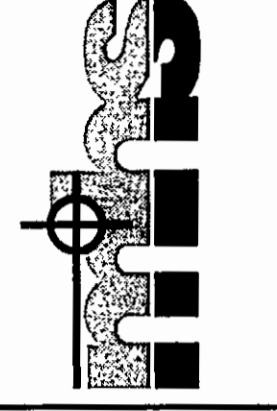
LEGEND

Section Corner	⊙
Benchmark	⊕
Control Point	△

GENERAL NOTES:

- The standard specifications governing this construction are the "Leavenworth County Department of Public Works Road Construction and Storm Water Drainage Standards," 2003 Edition.
- If there is a conflict between the Leavenworth County Standards and the notes on these Plans, the Leavenworth County Standards will control.
- Visual indications of utilities are as shown at time of engineering design by the best information available. Utility owners are to move and adjust public and private utility facilities prior to construction as necessary to fit the new construction unless noted otherwise. Underground locations shown, as furnished by their lessors, are approximate and should be verified in the field by the Contractor at the time of construction. Contractor shall coordinate with utility owners to relocate utilities during construction. Utilities damaged through the negligence of the Contractor to obtain the location of same shall be repaired or replaced by the Contractor at his expense.
- If precast concrete storm sewer structures are to be used on this project, the Contractor shall submit shop drawings to Design Engineer. Design Engineer will submit to County Engineer with recommendations. Approval by the County Engineer is required prior to fabrication of the structures. Failure to do so shall be cause for rejection.
- All property and right-of-way monuments disturbed or destroyed shall be reset at the Contractor's expense.
- All structures, fences, pavement, and other improvements disturbed or destroyed by construction activities shall be restored by the Contractor to original or better conditions.
- The Contractor is responsible for providing berms, silt fences, straw bales or other means to prevent erosion from leaving the site. In the event the prevention measures are not effective, the Contractor shall remove any debris and erosion and restore the area to original or better condition.
- All water required for the construction of this project shall be purchased from the appropriate water district through the use of a fire hydrant water meter. Meters can be obtained from the water district for a nominal deposit, refundable upon the return of the meter.
- Contractor shall not be allowed to work Sunday.
- All concrete utilized in construction shall meet KDOT Class A(AE) designation. A certification that all concrete to be used on the project will not contain fly ash or other pozzolans shall be submitted to the County Engineer prior to placing any concrete.
- Monument boxes conforming to Standard Detail 13-4 shall be installed at all quarter section corners involved in the street construction.
- The Contractor shall obtain all necessary permits required prior to construction.
- By use of the plans the Contractor agrees that he shall be solely responsible for the safety of the construction workers and the public.
- The Contractor shall notify all those companies which have facilities in the vicinity 72 hours prior to commencement of the construction to be performed.
- All signing, barricades and drums utilized in traffic control shall be provided, erected, and maintained by the Contractor. Traffic control shall be in conformance with the Manual of Uniform Traffic Control Devices (MUTCD), latest edition.
- All areas disturbed by the Contractor shall be seeded with a blended fescue tolerant of full sun conditions, containing a certified perennial rye grass with 70% K-31 fescue blend.
Application Rates: Seeding 8 lbs / 1000 sq. ft.
Fertilizer 14 lbs / 1000 sq. ft.
- All Contractor staging and employee parking shall be confined to the site. Under no circumstances shall existing right-of-way of traveled streets be utilized as staging or parking areas.
- The removal of all drainage structures, curbs, and pavements designated for removal on the drawings shall be considered SUBSIDIARY to the bid item Clearing & Grubbing. All removed structures shall become the property of the Contractor and removed from the site.
- The Contractor shall be responsible for the removal of all undesirable material (rock & debris) encountered during construction. Removal of undesirable material and clean-up of disturbed areas shall be SUBSIDIARY to other bid items.
- Contractor to salvage all signs and stockpile for county pickup on site.
- County forces will replace permanent signs at the end of the project prior to the removal of traffic control devices.
- Contractor shall not remove any trees outside the construction limits.
- All RCP storm line lengths and flowline elevations are to end of pipe. All CMP storm line lengths and flowline elevations are to end of end section.

McAfee, Henderson & Strick, Inc.
 Civil Engineering & Land Surveying
 1290 W. 161st St., Suite 200 Olathe, KS 66061
 Ph: (913) 762-7744 Fax: (913) 350-9865



NO.	DATE	BY	REVISIONS
6			
5			
4			
3			
2			
1	12/08/04		PER COUNTY COMMENTS

**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CONTROL SHEET**

Date: 9/16/04
 Designed: MFS
 Drawn: BRB
 Checked: CJF
 Approved:
 Proj. No. 2004.020
 Sheet No:

EXISTING 24"x24" RCB
FL IN (N)=915.69
FL OUT (S)=913.27

STA. 10+00, COUNTY ROUTE 2=
SW COR. SEC. 26-11-22
N: 278604.91 E: 2179446.48

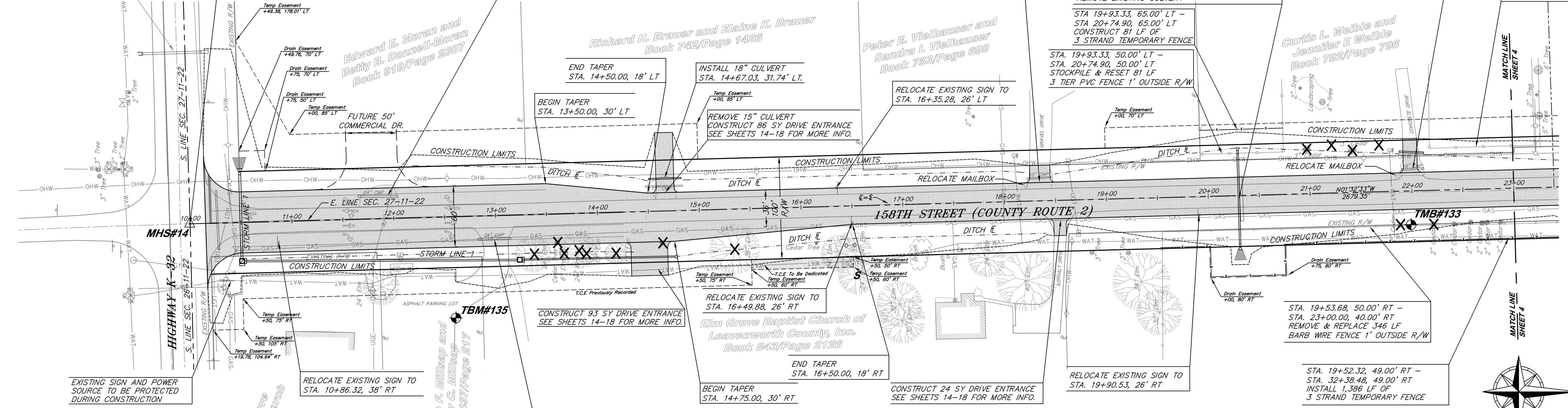
REMOVE 24" CULVERT
REMOVE EXISTING DRIVE.

REMOVE 18" CULVERT
CONSTRUCT 41 SY DRIVE ENTRANCE
SEE SHEETS 14-18 FOR MORE INFO.

STA. 20+30
STORM LINE 2
INSTALL 88 LF OF 18" RCP W/ RC END SECTIONS
INSTALL 9 SY 50# RIP RAP, RT
FL IN (W) 40.81' LT = 941.95
FL OUT (E) 47.19' RT = 940.45
STA. 20+32.32
REMOVE EXISTING CULVERT

REMOVE 18" CULVERT
CONSTRUCT 51 SY DRIVE ENTRANCE
SEE SHEETS 14-18 FOR MORE INFO.

STA 22+18.34 -
STA 23+21.51
REMOVE 103 LF OF
3 TIER PVC FENCE.
FENCE TO BE REPLACED
BY OWNER



EXISTING SIGN AND POWER
SOURCE TO BE PROTECTED
DURING CONSTRUCTION

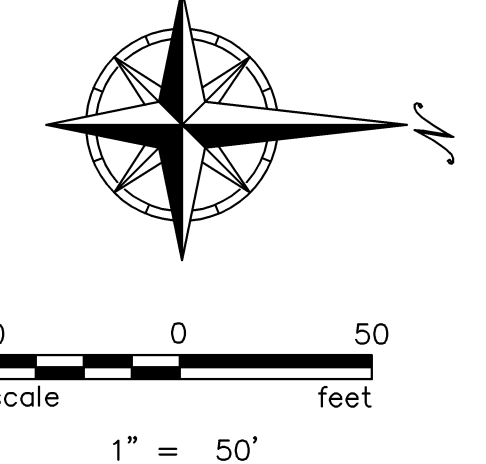
RELOCATE EXISTING SIGN TO
STA. 10+86.32, 38' RT

CONSTRUCT 93 SY DRIVE ENTRANCE
SEE SHEETS 14-18 FOR MORE INFO.

RELOCATE EXISTING SIGN TO
STA. 16+49.88, 26' RT
Elm Grove Baptist Church of
Leavenworth County, Inc.
Book 643/Page 2126

RELOCATE EXISTING SIGN TO
STA. 19+90.53, 26' RT

STA. 19+53.68, 50.00' RT -
STA. 23+00.00, 40.00' RT
REMOVE & REPLACE 346 LF
BARB WIRE FENCE 1' OUTSIDE R/W



MHS CONTROL POINT 12
N: 281283.29 E: 2179374.37
STA. 36+79.35 COUNTY ROUTE 2, 0.01' RT
120 SPIKE W/WASHER
1) 39.90' W TO A 60D FND IN TOP OF 10" POST
2) 39.25' E TO A PK NAIL FND IN TOP OF CNR POST
3) 33.41' E TO A 1/2 BAR
4) 0.20' E TO CENTERLINE COUNTY ROUTE 2

MHS CONTROL POINT 14
N: 278604.91 E: 2179446.48
3/8 SPIKE 0.4' BELOW SURFACE
STA. 10+00 COUNTY ROUTE 2
1) 83.7' SW TO A PK FND IN NORTH FACE TREE
2) 57.0' NW TO A 60D FND IN EAST FACE POWER POLE
3) 65.0' NE TO A PK & WASHER (LS-655) FND NW
FACE CHURCH SIGN
4) 8.8' S TO APPARENT CENTERLINE K-32

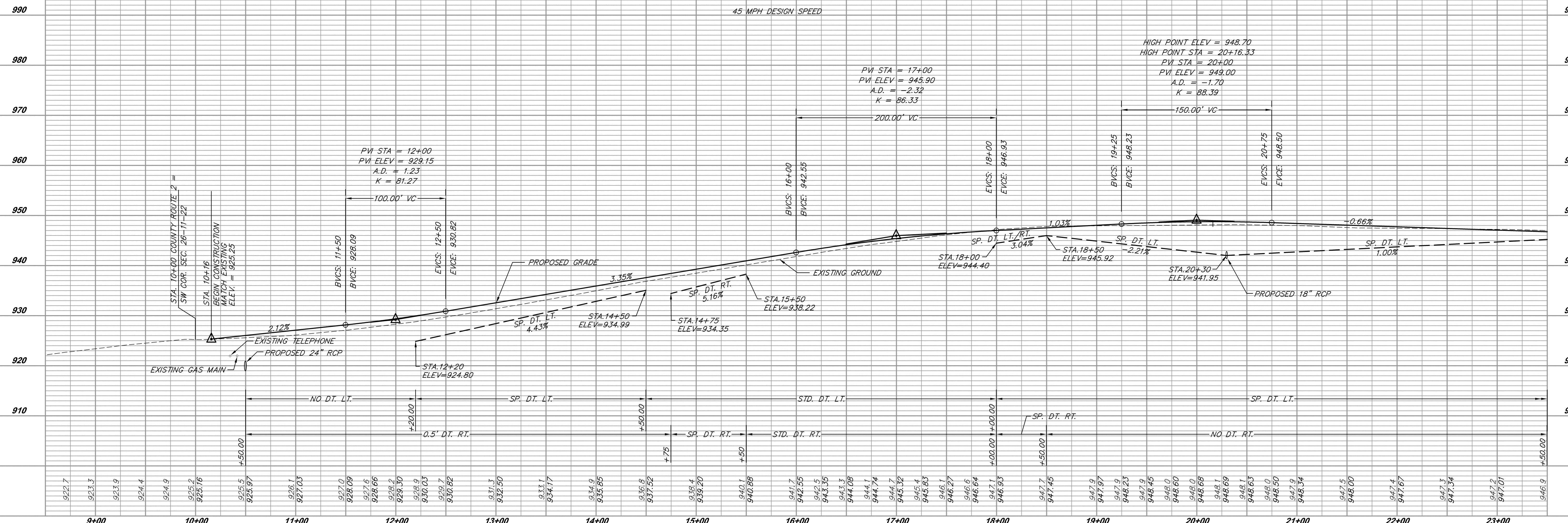
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ELEV=935.49
CHISELED "d" ON CONCRETE BASE OF LIGHT POLE IN
PARKING LOT OF ELM GROVE CHURCH, 100' EAST FROM
Q. COUNTY ROUTE 2 AND 1.9 MILES SOUTH FROM
INTERSECTION COUNTY ROUTE 2 & KANSAS

TBM#133
ELEV=943.20
"T" POST, 1" BELOW GRADE, 35' EAST FROM
INTERSECTION COUNTY ROUTE 2 & DRIVEWAY HOUSE
15775 AND 1.75 MILES SOUTH FROM INTERSECTION
COUNTY ROUTE 2 & KANSAS AVENUE

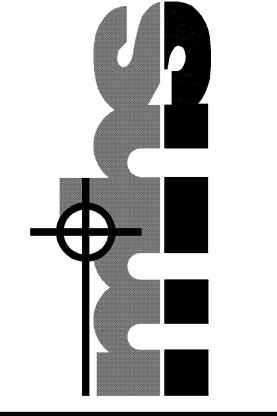
COUNTY ROUTE 2

45 MPH DESIGN SPEED

HORIZONTAL SCALE: 1"=50'
VERTICAL SCALE: 1"=10'



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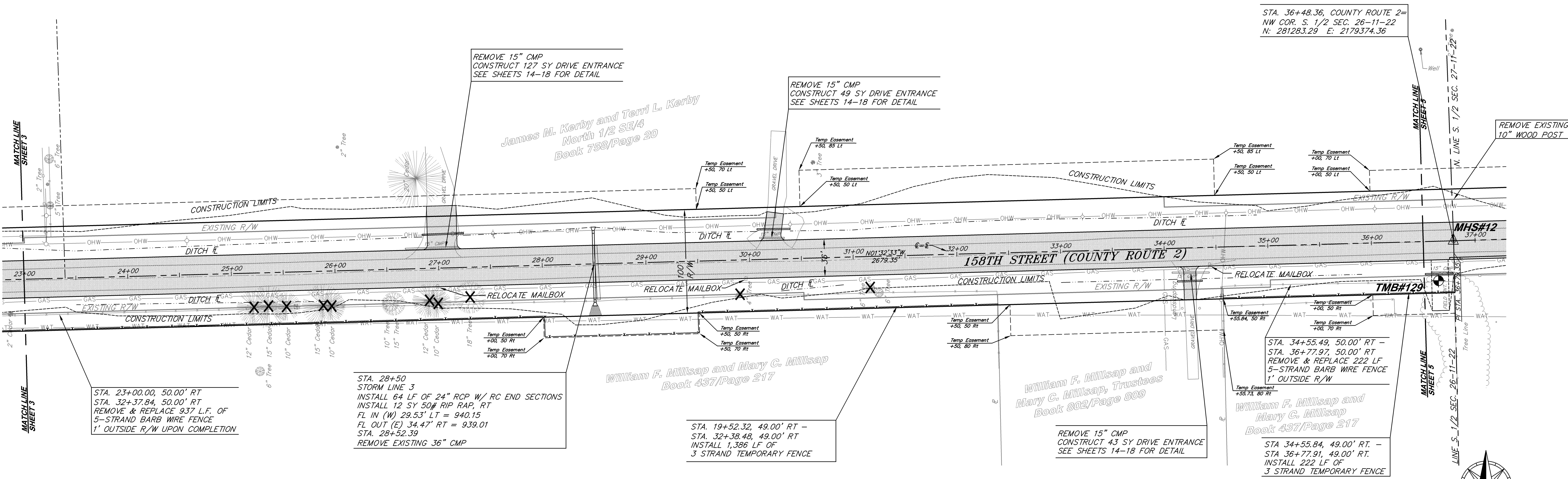
No.	Date	By	App.	Comments
1	12/03/04	CJF	MHS	PER COUNTY COMMENTS
2				
3				
4				
5				
6				

COUNTY ROUTE 2 LEAVENWORTH COUNTY, KANSAS PLAN & PROFILE SHEET

Date: 9/16/04
Designed: MFS
Drawn: MFS
Checked: CJF
Approved:
Proj. No. 2004.020

Sheet No: 3

Drawing Path: L:\Land Projects\04\020\020.dwg; Street: 04-020_pp_route2-01.dwg
Plotted at: Dec 18, 2006 - 12:03pm



STA. 23+00.00, 50.00' RT
 STA. 32+37.84, 50.00' RT
 REMOVE & REPLACE 937 L.F. OF
 5-STRAND BARB WIRE FENCE
 1' OUTSIDE R/W UPON COMPLETION

STA. 28+50
 STORM LINE 3
 INSTALL 64 LF OF 24" RCP W/ RC END SECTIONS
 INSTALL 12 SY 50" RIP RAP, RT
 FL IN (W) 29.53' LT = 940.15
 FL OUT (E) 34.47' RT = 939.01
 STA. 28+52.39
 REMOVE EXISTING 36" CMP

William F. Millsap and Mary C. Millsap
 Book 437/Page 217

STA. 19+52.32, 49.00' RT -
 STA. 32+38.48, 49.00' RT
 INSTALL 1,386 LF OF
 3 STRAND TEMPORARY FENCE

REMOVE 15" CMP
 CONSTRUCT 43 SY DRIVE ENTRANCE
 SEE SHEETS 14-18 FOR DETAIL

William F. Millsap and
 Mary C. Millsap, Trustees
 Book 802/Page 809

STA. 34+55.49, 50.00' RT -
 STA. 36+77.97, 50.00' RT
 REMOVE & REPLACE 222 LF
 5-STRAND BARB WIRE FENCE
 1' OUTSIDE R/W

William F. Millsap and
 Mary C. Millsap
 Book 437/Page 217

STA. 34+55.84, 49.00' RT. -
 STA. 36+77.91, 49.00' RT.
 INSTALL 222 LF OF
 3 STRAND TEMPORARY FENCE

MHS CONTROL POINT 14
 N: 278604.91 E: 2179446.48
 3/8 SPIKE 0.4' BELOW SURFACE
 STA. 10+00 COUNTY ROUTE 2
 1) 83.7' SW TO A PK FND IN NORTH FACE TREE
 2) 57.0' NW TO A 60D FND IN EAST FACE POWER POLE
 3) 65.0' NE TO A PK & WASHER (LS-655) FND NW
 FACE CHURCH SIGN
 4) 8.8' S TO APPARENT CENTERLINE K-32

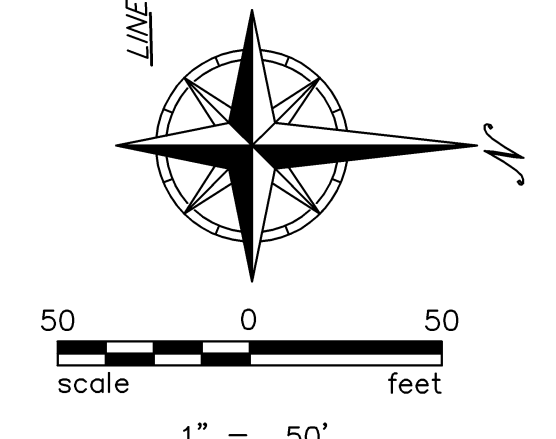
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 120 SPIKE W/WASHER
 1) 39.90' W TO A 60D FND IN TOP OF 10" POST
 2) 39.25' E TO A PK NAIL FND IN TOP OF CNR POST
 3) 33.41' E TO A 1/2 BAR
 4) 0.20' E TO CENTERLINE COUNTY ROUTE 2

TBM#133
 ELEV=943.20

1" POST, 1" BELOW GRADE, 35' EAST FROM
 INTERSECTION COUNTY ROUTE 2 & DRIVEWAY HOUSE
 # 15775 AND 1.75 MILES SOUTH FROM INTERSECTION
 COUNTY ROUTE 2 & KANSAS AVENUE

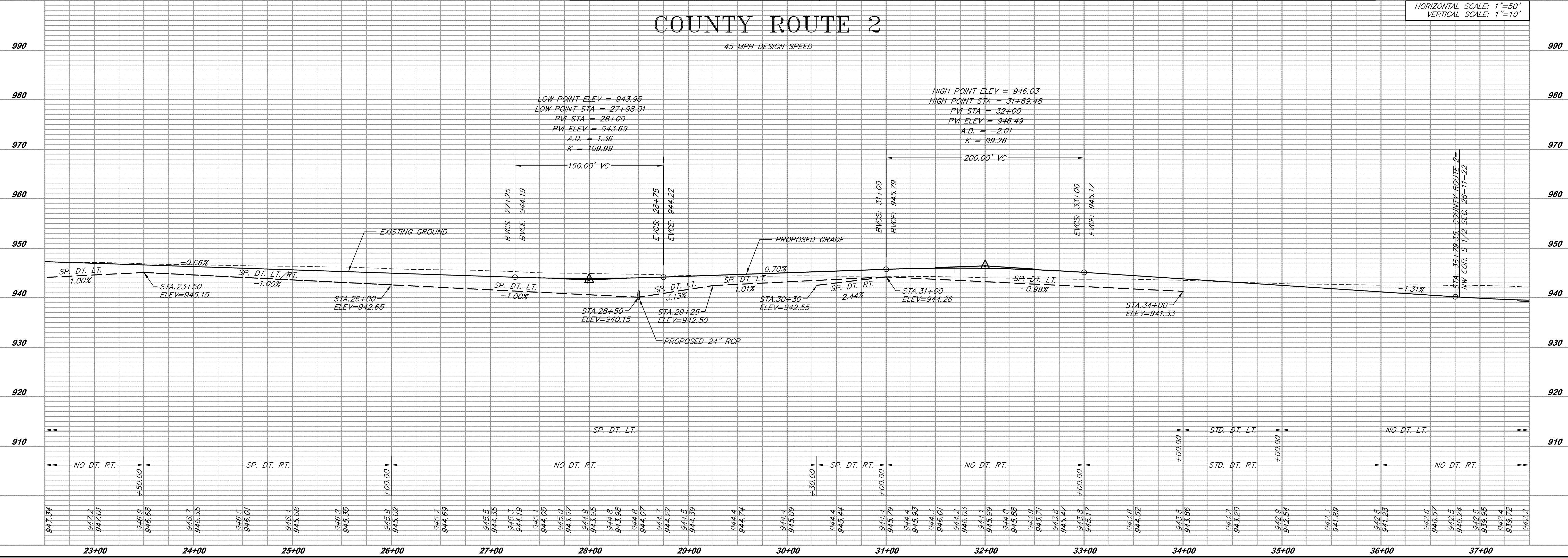
TBM#129
 ELEV=938.08

1" POST, 1" BELOW GRADE, 39' EAST FROM @ COUNTY
 ROUTE 2 AND 14' SOUTH FROM END OF PICKET FENCE
 RUNNING NORTH & SOUTH.



COUNTY ROUTE 2

45 MPH DESIGN SPEED



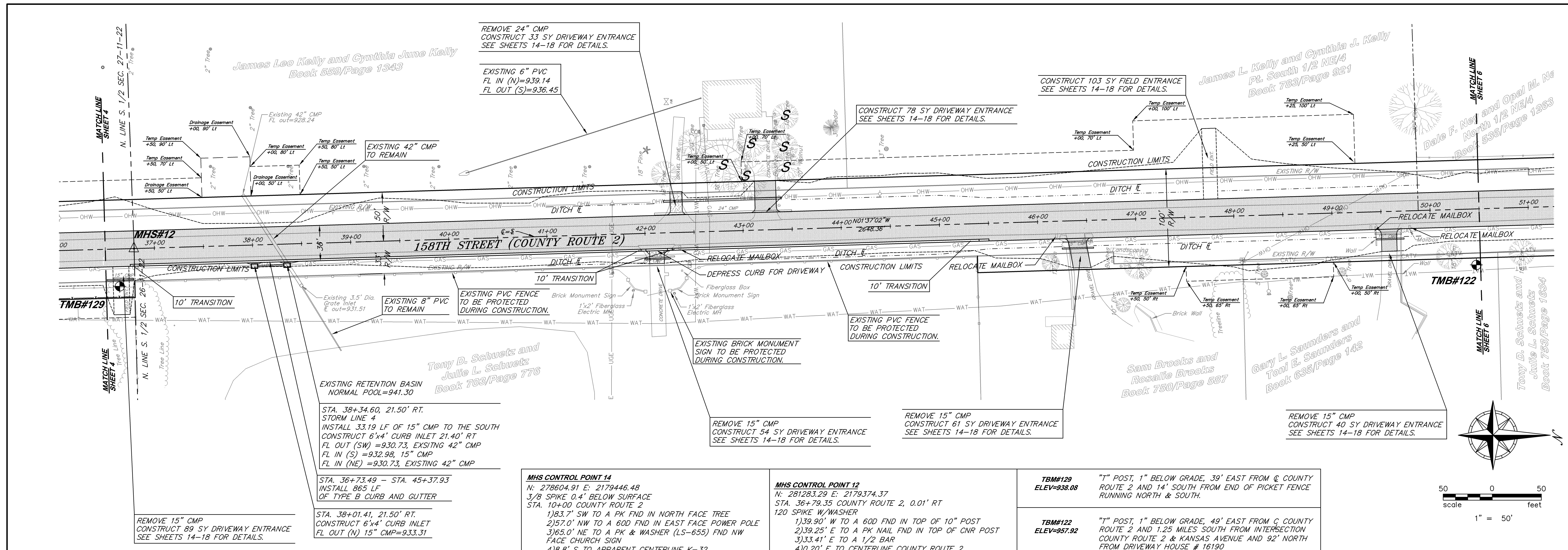
HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=10'

COUNTY ROUTE 2 LEAVENWORTH COUNTY, KANSAS PLAN & PROFILE SHEET

Date: 9/16/04
 Designed: MFS
 Drawn: MFS
 Checked: CJF
 Approved:
 Proj. No. 2004.020

Sheet No:
 4

Drawing Path: L:\Land Projects\Itothe\2004\020.dwg; Street: 04-020_pp_route2-02.dwg
 Plotted at: Dec 18, 2006 - 11:07am

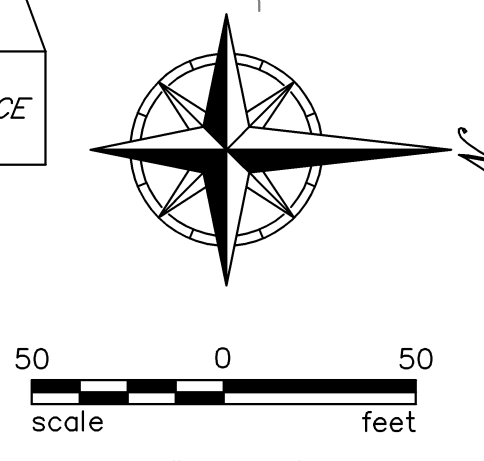


MHS CONTROL POINT 14
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 3/8 SPIKE 0.4' BELOW SURFACE
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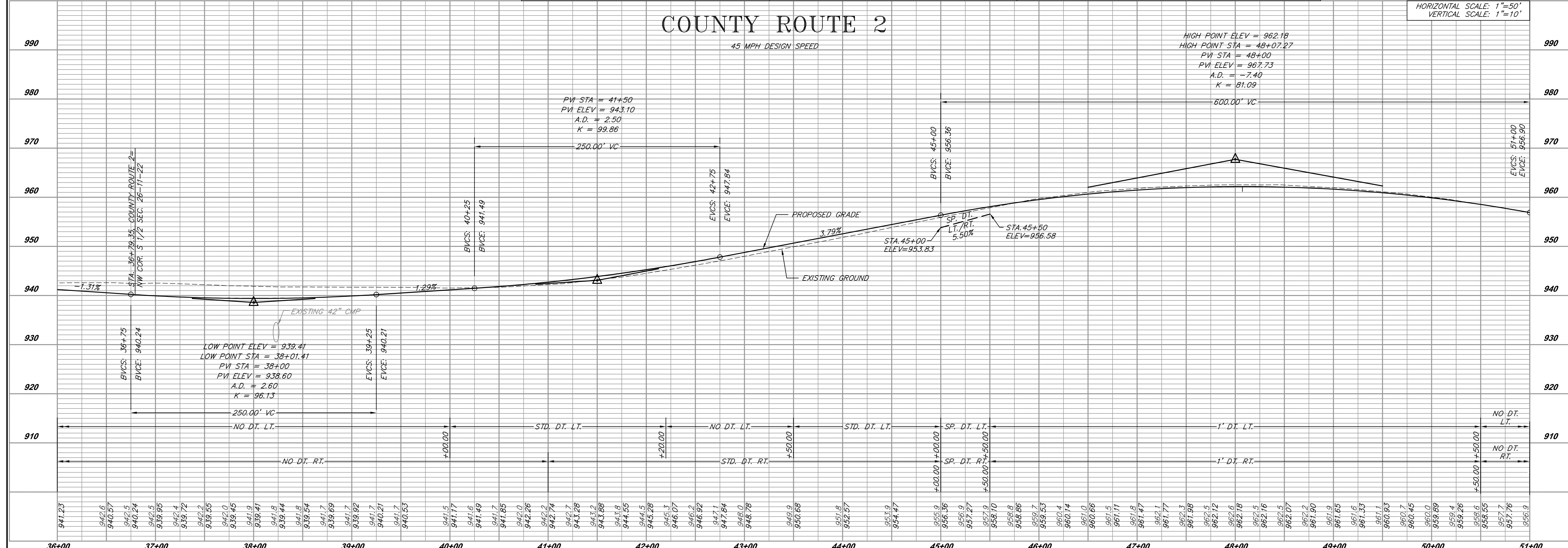
TBM#129
 ELEV=938.08
 "T" POST, 1" BELOW GRADE, 39' EAST FROM C COUNTY ROUTE 2 AND 14' SOUTH FROM END OF PICKET FENCE RUNNING NORTH & SOUTH.

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 ELEV=957.92
 "T" POST, 1" BELOW GRADE, 49' EAST FROM C COUNTY ROUTE 2 AND 1.25 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 92' NORTH FROM DRIVEWAY HOUSE # 16190

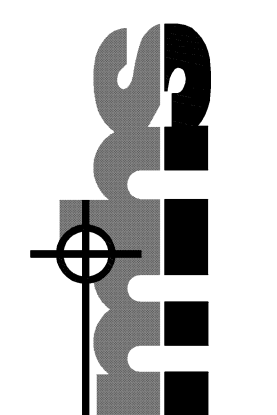


COUNTY ROUTE 2

45 MPH DESIGN SPEED



HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=10'

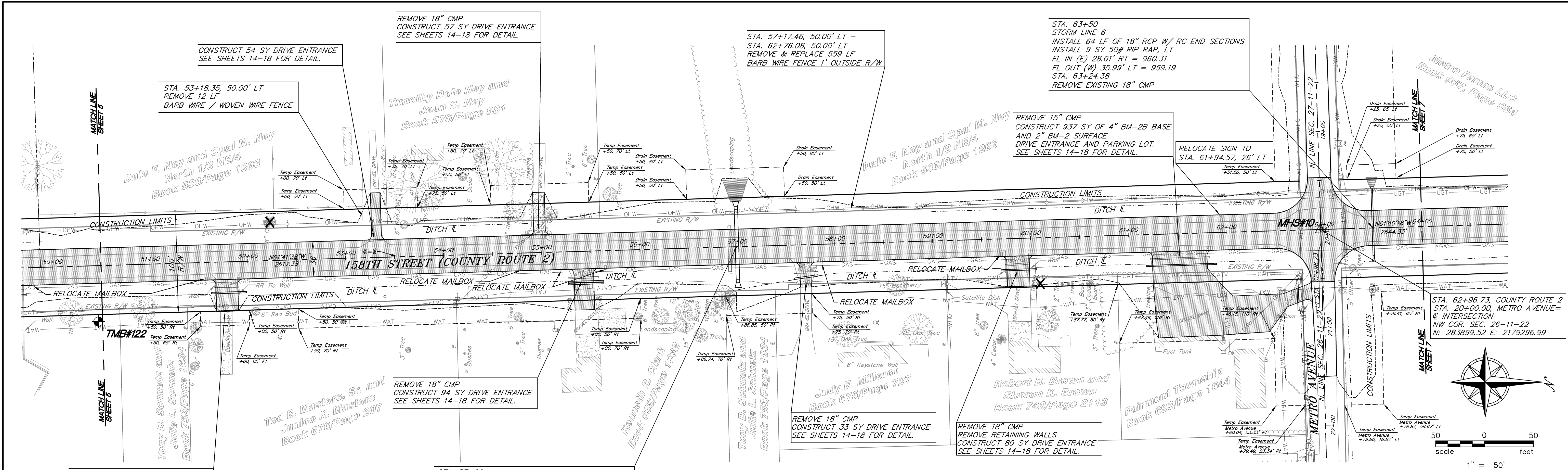


No.	Date	BY	APP.
1	12/03/04	BJE	MUH
2			
3			
4			
5			
6			

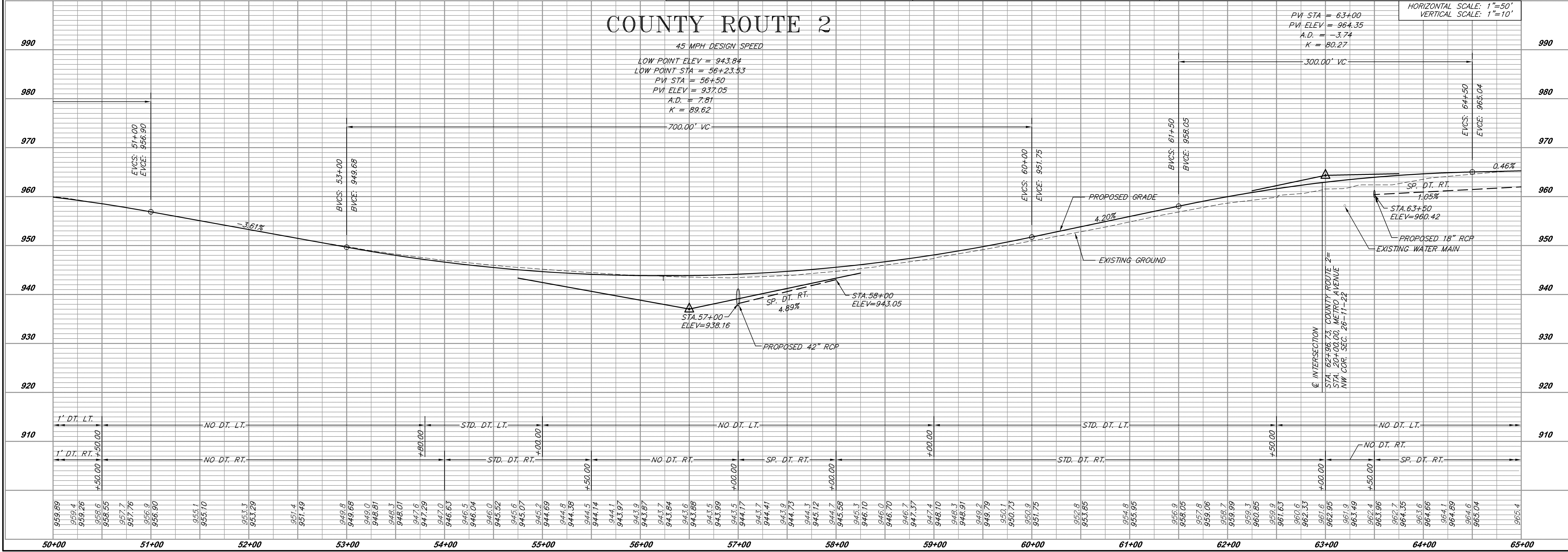
COUNTY ROUTE 2 LEAVENWORTH COUNTY, KANSAS PLAN & PROFILE SHEET

Date: 9/16/04
 Designed: MFS
 Drawn: MFS
 Checked: CJF
 Approved:
 Proj. No. 2004.020
 Sheet No:

Drawing Path: L:\Land Projects\Itothe\2004\020.dwg; Street: 04-020_pp_route2-04.dwg
 Plotted at: Dec 18, 2006 - 11:30am



<p>REMOVE 18" CMP REMOVE RETAINING WALLS CONSTRUCT 82 SY DRIVE ENTRANCE SEE SHEETS 14-18 FOR DETAIL.</p>	<p>STA. 57+00 STORM LINE 5 INSTALL 72 LF OF 42" RCP W/ RC END SECTIONS INSTALL 44 SY 50# RIP RAP, LT FL IN (E) 33.71' RT = 938.16 FL OUT (W) 38.29' LT = 937.12 STA. 56+92 REMOVE EXISTING 36" CMP</p>	<p>MHS CONTROL POINT 10 N: 283899.53 E: 2179297.00 STA. 62+96.59 COUNTY ROUTE 2, 0.16' RT 5/8" BAR 3" +/- BELOW GRADE 1) 46.76' SE TO NAIL & CAP IN POWER POLE 2) 43.24' SW TO NAIL & CAP IN POWER POLE 3) 47.46' NE TO 40D NAIL IN FENCE CORNER POST 4) 45.75' NW TO SE CORNER CONC. PILLAR</p>	<p>MHS CONTROL POINT 12 N: 281283.29 E: 2179374.37 STA. 36+79.35 COUNTY ROUTE 2, 0.01' RT 120 SPIKE W/WASHER 1) 39.90' W TO A 60D FND IN TOP OF 10" POST 2) 39.25' E TO A PK NAIL FND IN TOP OF CNR POST 3) 33.41' E TO A 1/2 BAR 4) 20.20' E TO CENTERLINE COUNTY ROUTE 2</p>	<p>TBM#122 ELEV=957.92</p> <p>"I" POST, 1" BELOW GRADE, 49' EAST FROM @ COUNTY ROUTE 2 AND 1.25 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 92' NORTH FROM DRIVEWAY HOUSE # 16190</p>	<p>TBM#10 ELEV=961.32</p> <p>1/2" IRON BAR, 1" BELOW GRADE, AT INTERSECTION OF COUNTY ROUTE 2 & METRO AVENUE, 1.0 MILE SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE</p>
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 1280 W. 151st St., Suite 200, Olathe, KS 66061
 Ph: (913) 62-7744 Fax: (913) 390-9665

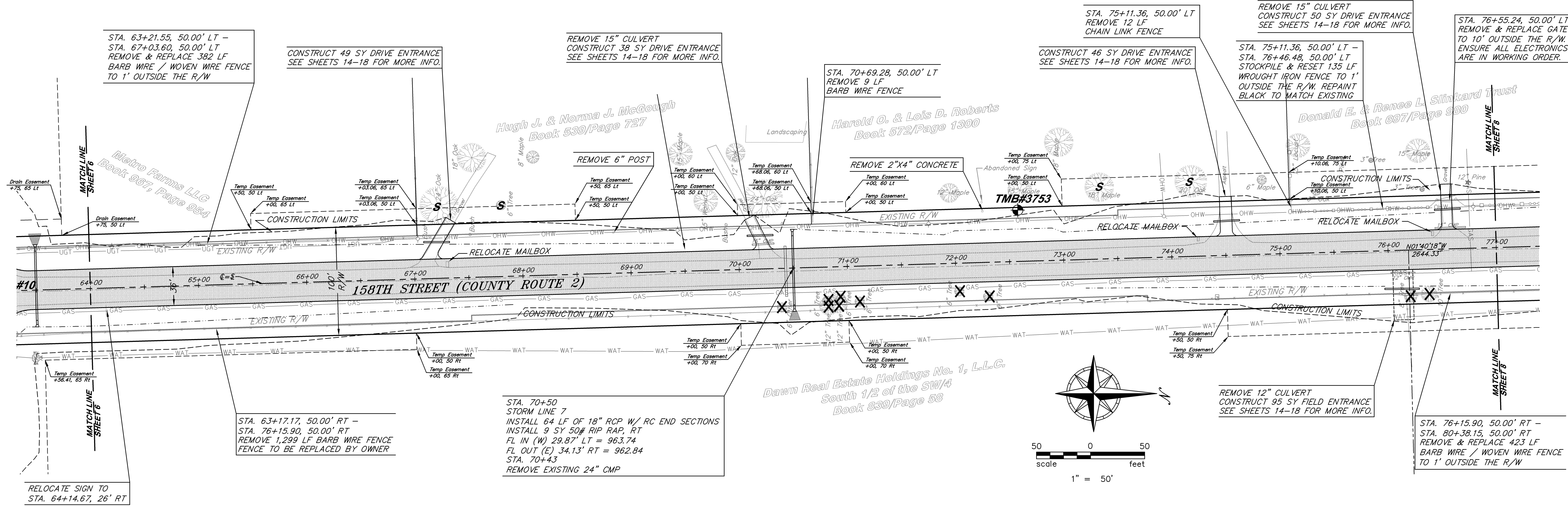
mhs

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DATE	12/03/04					
BY						
CHKD						
APP.						

PER COUNTY COMMENTS

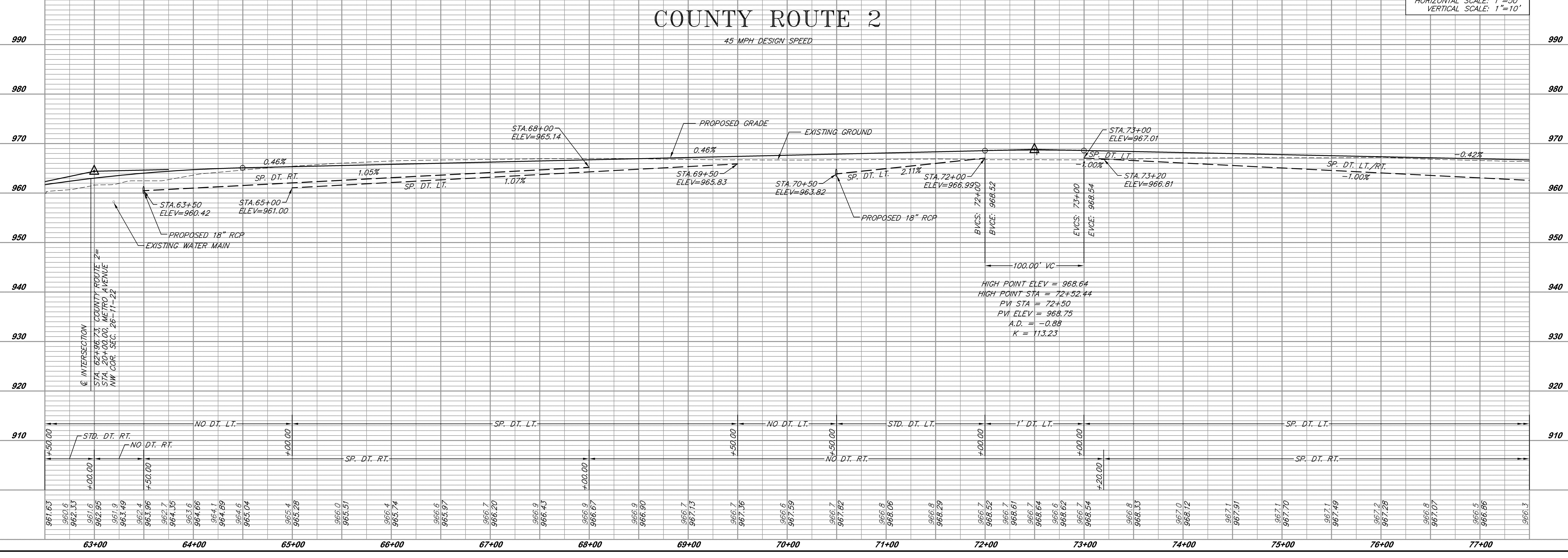
**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 PLAN & PROFILE SHEET**

Date: 9/16/04
 Designed: MFS
 Drawn: MFS
 Checked: CJF
 Approved:
 Proj. No. 2004.020
 Sheet No. 6



<p>MHS CONTROL POINT 39 N: 286542.73 E: 2179219.85 STA. 89+19.91 COUNTY ROUTE 2 1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2 1) 32.65' W TO PK FND IN NORTH FACE POWER POLE 2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE 3) 53.85' SE TO 60 D IN NW FACE POWER POLE 4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT</p>	<p>MHS CONTROL POINT 10 N: 283899.53 E: 2179297.00 STA. 62+96.59 COUNTY ROUTE 2, 0.16' RT 5/8" BAR 3" +/- BELOW GRADE 1) 46.76' SE TO NAIL & CAP IN POWER POLE 2) 43.24' SW TO NAIL & CAP IN POWER POLE 3) 47.46' NE TO 40D NAIL IN FENCE CORNER POST 4) 45.75' NW TO SE CORNER CONC. PILLAR</p>	<p>TBM#3753 ELEV=967.92 "1" POST, 1" BELOW GRADE, 0.85 MILE SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 50' WEST FROM @ COUNTY ROUTE 2 AND 220' SOUTH FROM @ OF DRIVEWAY HOUSE # 16547</p>	<p>TBM#22 ELEV=973.85 "1" POST, 1" BELOW GRADE, 0.60 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 46' WEST FROM @ COUNTY ROUTE 2 AND 51.5' NORTH FROM @ OF DRIVEWAY HOUSE # 16718</p>
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COUNTY ROUTE 2
45 MPH DESIGN SPEED



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MHS

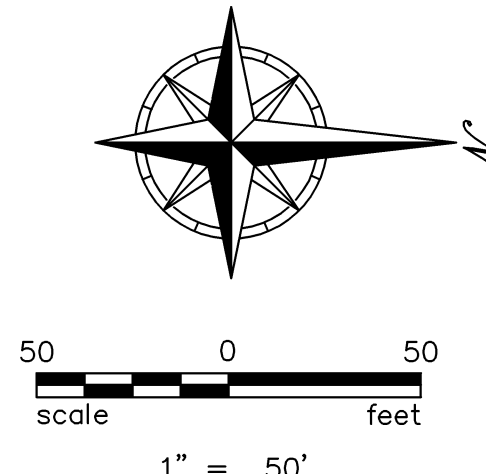
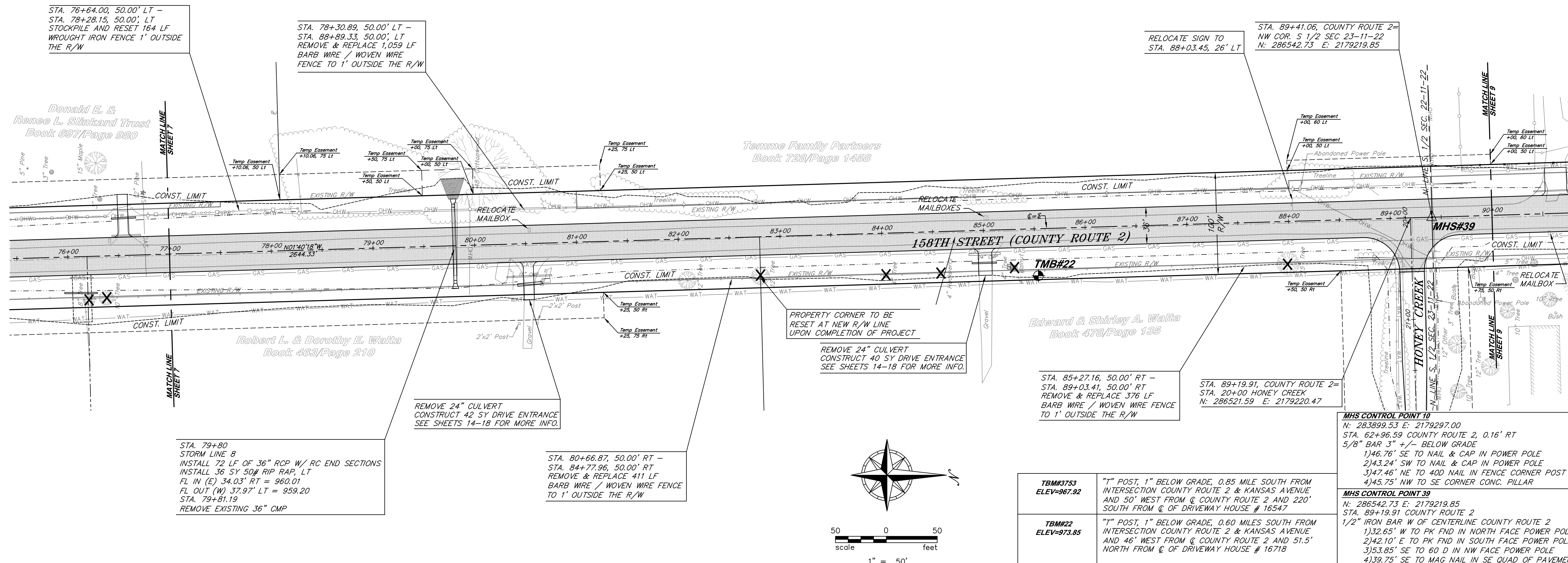
DATE	12/03/04
BY	BRE
APP.	
PER COUNTY COMMENTS	

COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
PLAN & PROFILE SHEET

Date: 9/16/04
Designed: MFS
Drawn: BRE
Checked: CJF
Approved:
Proj. No. 2004.020
Sheet No. 7

Drawing Path: L:\Land Projects\Itothe\2004\020.dwg; Street: 04-020_pp_route2-05.dwg
Plotted at: Dec 18, 2006 - 11:28am

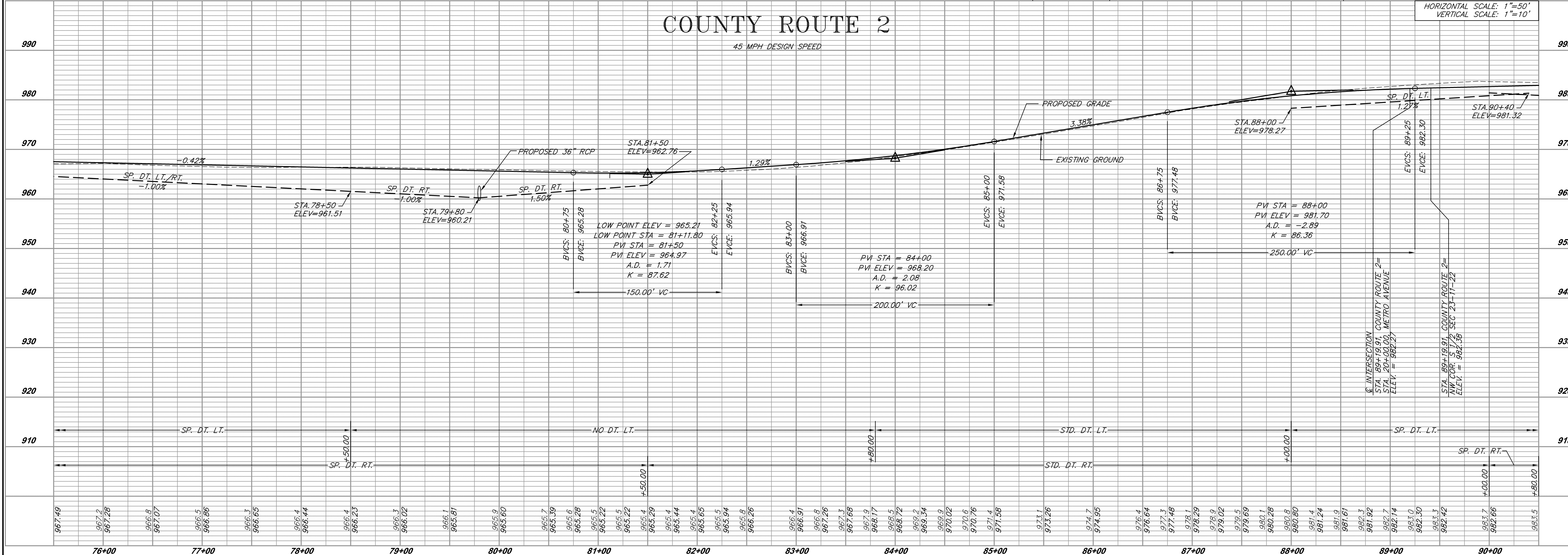
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Plotted at: Dec 18, 2006 - 11:12am



TBM#3753 ELEV=967.92	"T" POST, 1" BELOW GRADE, 0.85 MILE SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 50' WEST FROM @ COUNTY ROUTE 2 AND 220' SOUTH FROM @ OF DRIVEWAY HOUSE # 16347
TBM#22 ELEV=973.85	"T" POST, 1" BELOW GRADE, 0.60 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 46' WEST FROM @ COUNTY ROUTE 2 AND 51.5' NORTH FROM @ OF DRIVEWAY HOUSE # 16718

MHS CONTROL POINT 10
N: 283899.53 E: 2179297.00
STA. 62+96.59 COUNTY ROUTE 2, 0.16' RT
5/8" BAR 3" +/- BELOW GRADE
1) 46.76' SE TO NAIL & CAP IN POWER POLE
2) 43.24' SW TO NAIL & CAP IN POWER POLE
3) 47.46' NE TO 40D NAIL IN FENCE CORNER POST
4) 45.75' NW TO SE CORNER CONC. PILLAR

MHS CONTROL POINT 39
N: 286542.73 E: 2179219.85
STA. 89+19.91 COUNTY ROUTE 2
1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2
1) 32.65' W TO PK FND IN NORTH FACE POWER POLE
2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE
3) 53.85' SE TO 60 D IN NW FACE POWER POLE
4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT



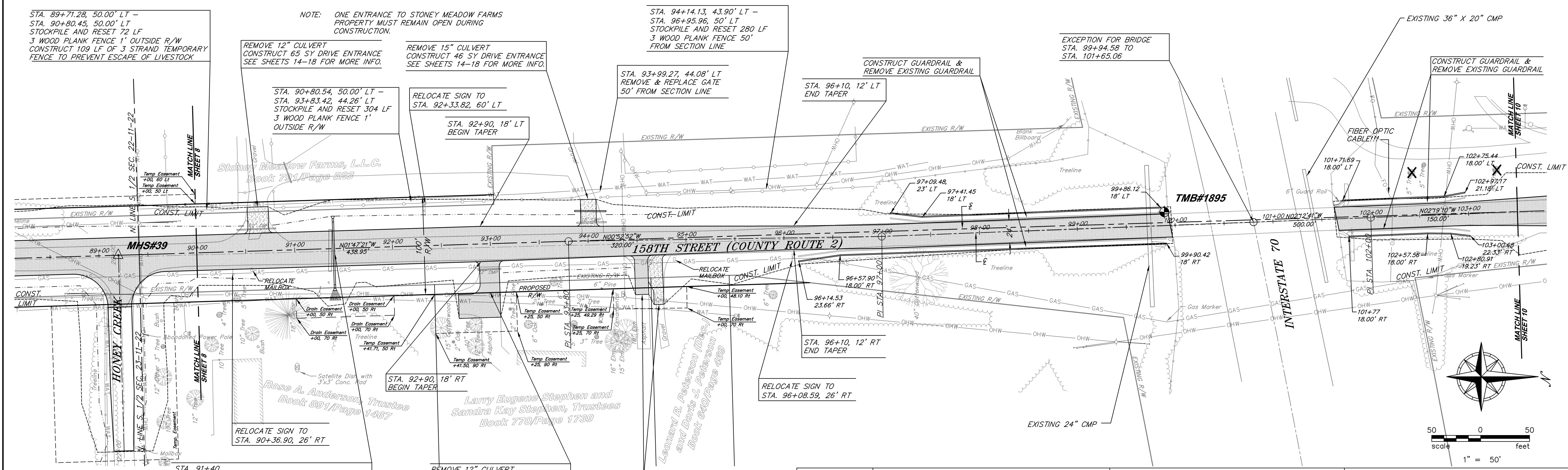
McAFEE, HENDERSON & STRICK, INC.
Civil Engineering & Land Surveying
1280 W. 151st St. Suite 200, Olathe, KS 66061
Ph: (913) 62-7744 Fax: (913) 990-9665

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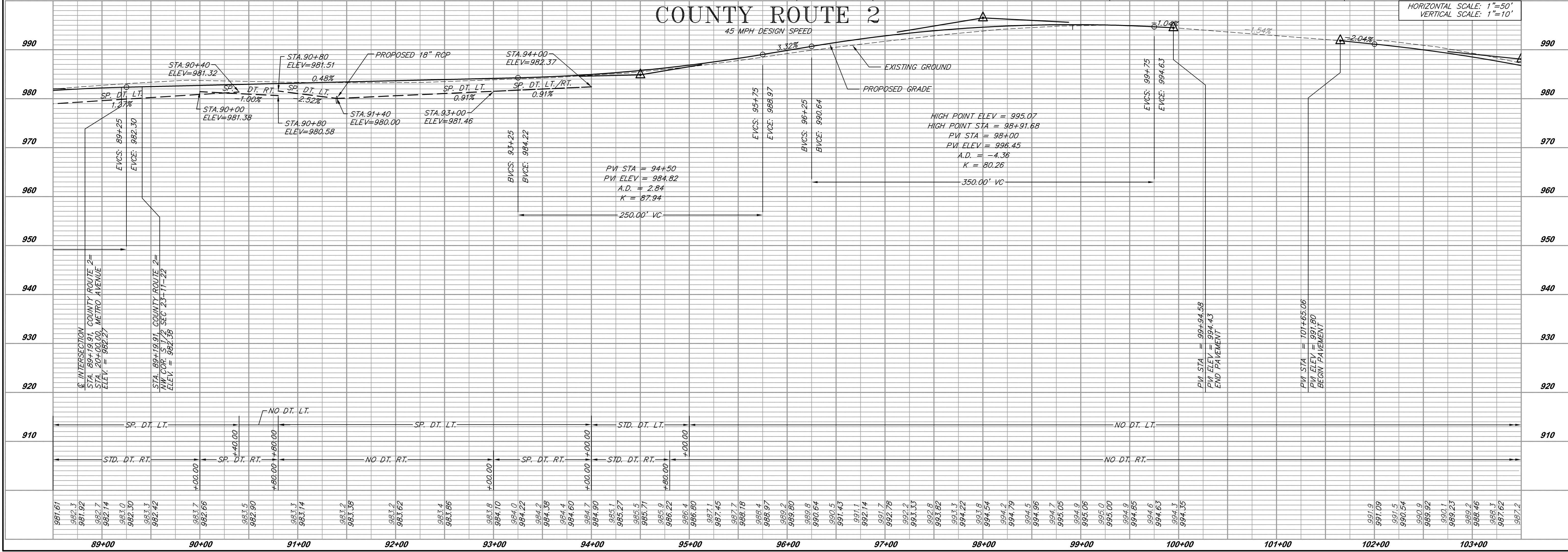
PER COUNTY COMMENTS

DATE: 9/16/04
DESIGNED: MFS
DRAWN: BRE
CHECKED: CJF
APPROVED:
PROJ. NO. 2004.020
SHEET NO. 8

Drawing Path: L:\Land Projects\Itothe_2004_2004.02.02.dwg; Street: 04-020_pp_route2-07.dwg
 Plotted at: Dec 18, 2006 - 11:11am



<p>STA. 89+71.28, 50.00' LT - STA. 90+80.45, 50.00' LT STOCKPILE AND RESET 72 LF 3 WOOD PLANK FENCE 1' OUTSIDE R/W CONSTRUCT 109 LF OF 3 STRAND TEMPORARY FENCE TO PREVENT ESCAPE OF LIVESTOCK</p>	<p>NOTE: ONE ENTRANCE TO STONEY MEADOW FARMS PROPERTY MUST REMAIN OPEN DURING CONSTRUCTION.</p>	<p>STA. 94+14.13, 43.90' LT - STA. 96+95.96, 50' LT STOCKPILE AND RESET 280 LF 3 WOOD PLANK FENCE 50' FROM SECTION LINE</p>	<p>EXCEPTION FOR BRIDGE STA. 99+94.58 TO STA. 101+65.06</p>
<p>REMOVE 12" CULVERT CONSTRUCT 65 SY DRIVE ENTRANCE SEE SHEETS 14-18 FOR MORE INFO.</p>	<p>REMOVE 15" CULVERT CONSTRUCT 46 SY DRIVE ENTRANCE SEE SHEETS 14-18 FOR MORE INFO.</p>	<p>RELOCATE SIGN TO STA. 92+33.82, 60' LT</p>	<p>CONSTRUCT GUARDRAIL & REMOVE EXISTING GUARDRAIL</p>
<p>STA. 90+80.54, 50.00' LT - STA. 93+83.42, 44.26' LT STOCKPILE AND RESET 304 LF 3 WOOD PLANK FENCE 1' OUTSIDE R/W</p>	<p>RELOCATE SIGN TO STA. 92+90, 18' LT BEGIN TAPER</p>	<p>STA. 92+90, 18' LT BEGIN TAPER</p>	<p>STA. 96+10, 12' LT END TAPER</p>
<p>RELOCATE SIGN TO STA. 90+36.90, 26' RT</p>	<p>RELOCATE SIGN TO STA. 90+36.90, 26' RT</p>	<p>RELOCATE SIGN TO STA. 96+08.59, 26' RT</p>	<p>RELOCATE SIGN TO STA. 96+08.59, 26' RT</p>

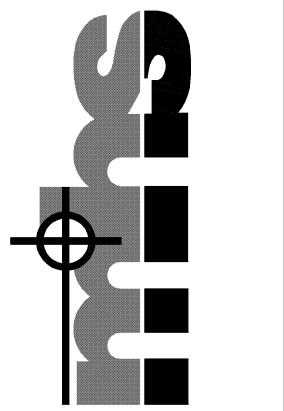


<p>TBM#22 ELEV=973.85</p>	<p>"T" POST, 1" BELOW GRADE, 0.60 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 46' WEST FROM E COUNTY ROUTE 2 AND 51.5' NORTH FROM E OF DRIVEWAY HOUSE # 16718</p>	<p>MHS CONTROL POINT 39 N: 286542.73 E: 2179219.85 STA. 89+19.91 COUNTY ROUTE 2 1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2</p>	<p>MHS CONTROL POINT 8 N: 289188.55 E: 2179137.21 3" ALUMINUM DISC IN MONUMENT BOX 1) 95.85' SW TO A PK FND NE FACE POWER POLE 2) 67.05' SE TO A PK FND NW FACE POWER POLE 3) 70.45' NE TO A 1/2 BAR WITH CAP 1373 4) 5.20' W TO CENTERLINE 158TH</p>
<p>TBM#1895 ELEV=995.01</p>	<p>CHISEL "C" ON SW CORNER OF BRIDGE OVER I-70, 0.3 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 12' WEST FROM E OF COUNTY ROUTE 2</p>	<p>1) 32.65' W TO PK FND IN NORTH FACE POWER POLE 2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE 3) 53.85' SE TO 60 D IN NW FACE POWER POLE 4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT</p>	

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COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
PLAN & PROFILE SHEET

Date:	9/16/04
Designed:	MFS
Drawn:	BRE
Checked:	CJF
Approved:	
Proj. No.	2004.020
Sheet No.	9

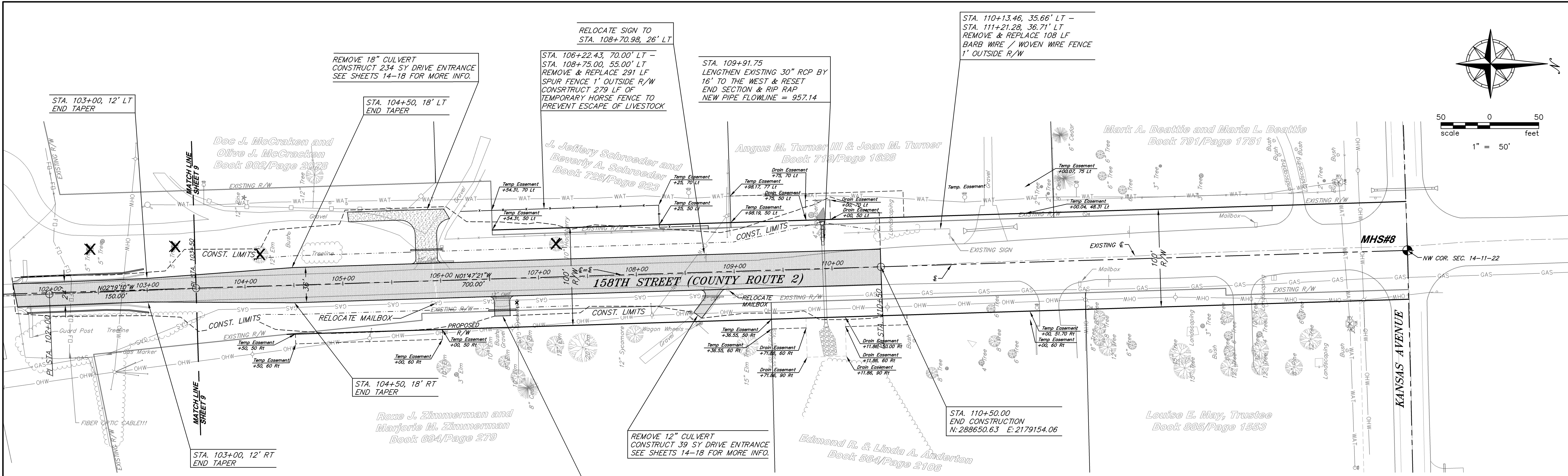
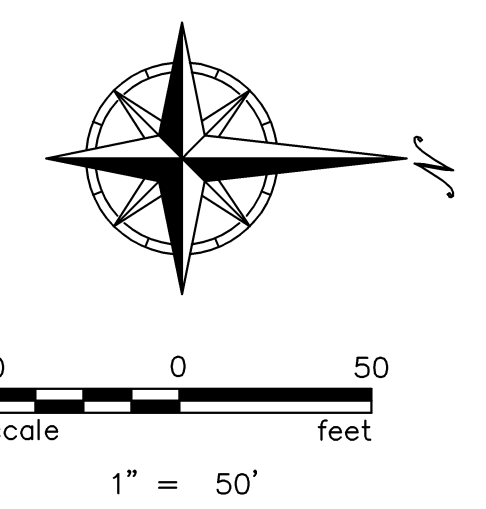


DATE	BY	APP.
12/03/04	BRE	MJH

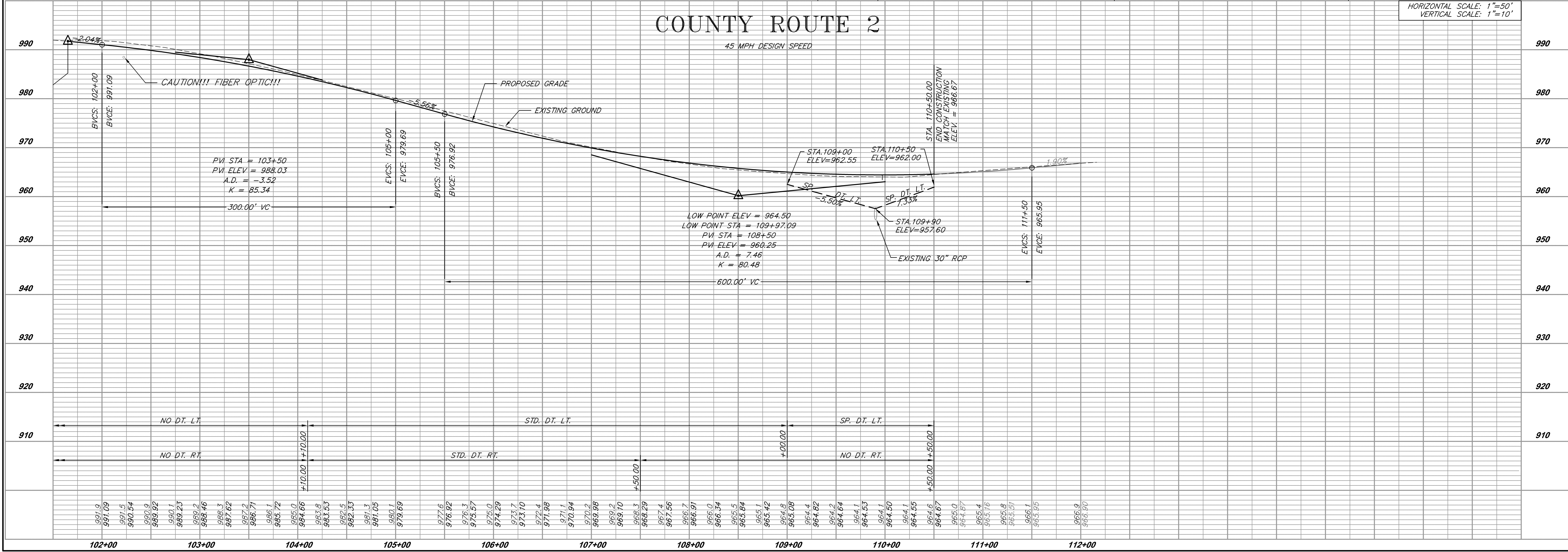
NO.	DATE	REVISIONS
1	12/03/04	PER COUNTY COMMENTS
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COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 PLAN & PROFILE SHEET

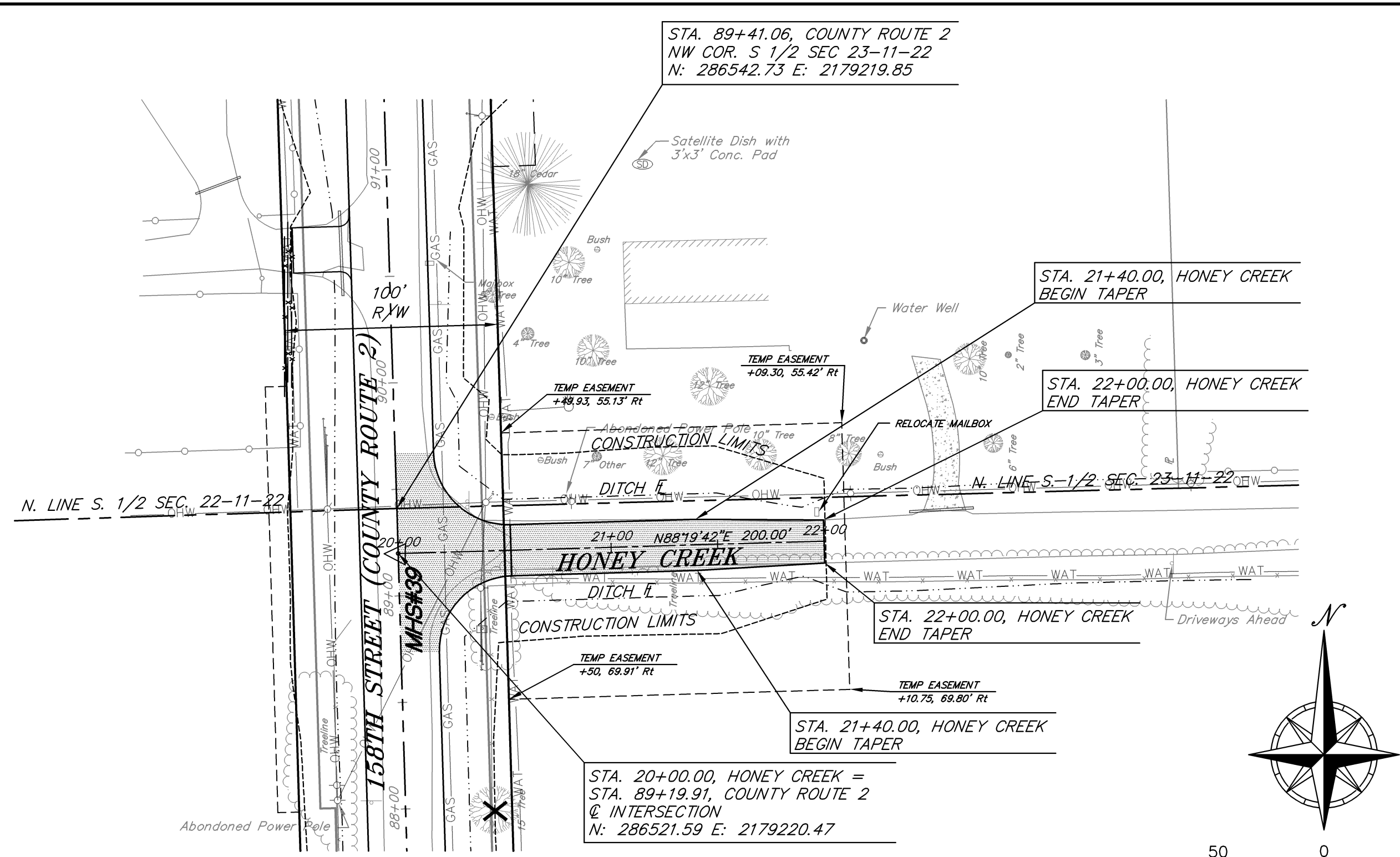
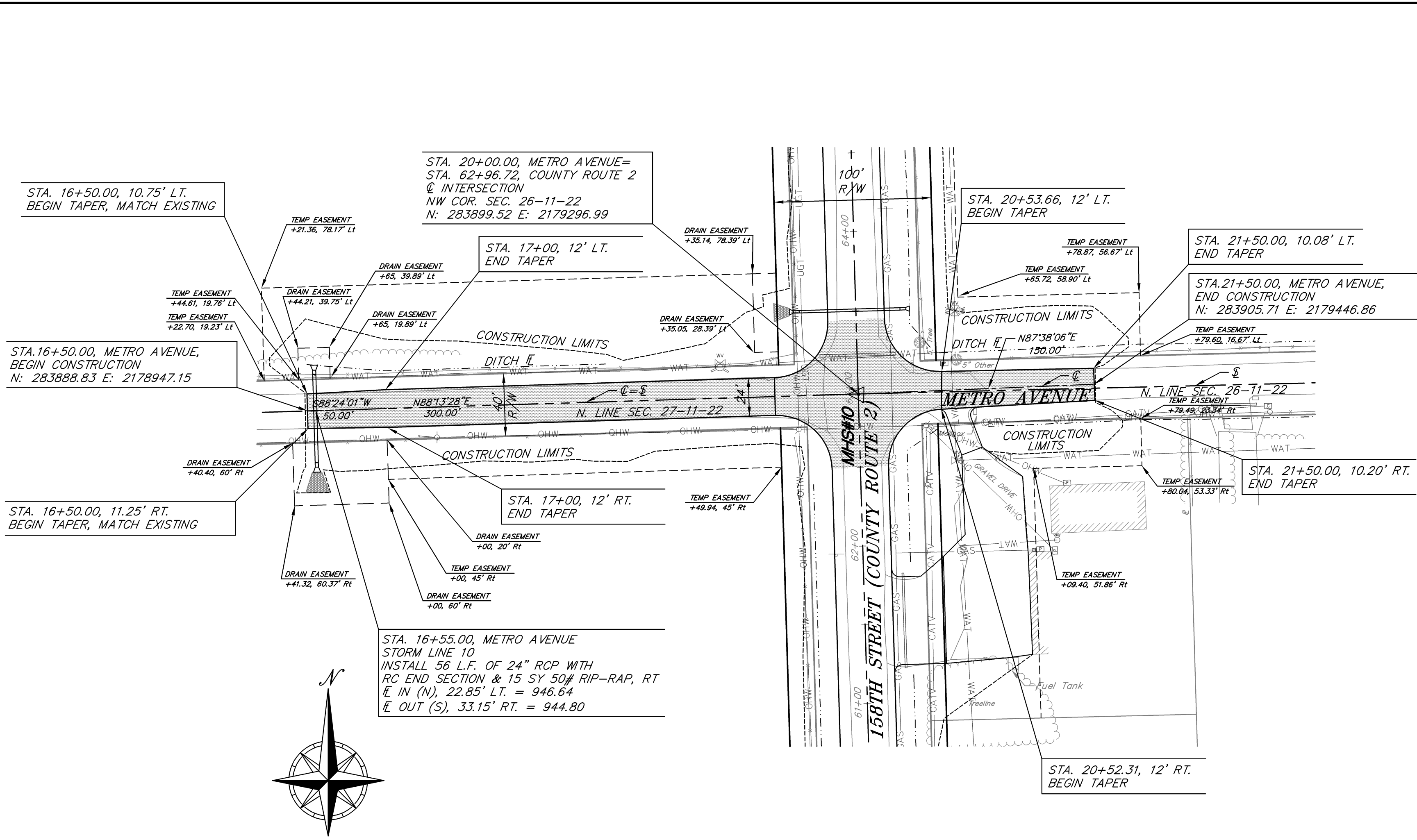
Date: 9/16/04
 Designed: MFS
 Drawn: BRE
 Checked: CJF
 Approved:
 Proj. No. 2004.020
 Sheet No:



TBM#1895 ELEV=995.01	CHISLED "d" ON SW CORNER OF BRIDGE OVER I-70, 0.3 MILES SOUTH FROM INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE AND 12' WEST FROM Q OF COUNTY ROUTE 2	MHS CONTROL POINT 39 N: 286542.73 E: 2179219.85 STA. 89+19.91 COUNTY ROUTE 2 1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2 1) 32.65' W TO PK FND IN NORTH FACE POWER POLE 2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE 3) 53.85' SE TO 60 D IN NW FACE POWER POLE 4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT	MHS CONTROL POINT 8 N: 289188.55 E: 2179137.21 3" ALUMINUM DISC IN MONUMENT BOX 1) 95.85' SW TO A PK FND NE FACE POWER POLE 2) 67.05' SE TO A PK FND NW FACE POWER POLE 3) 70.45' NE TO A 1/2 BAR WITH CAP 1373 4) 5.20' W TO CENTERLINE 158TH
TBM#8 ELEV=967.70	ALUMINUM CAP IN MONUMENT BOX AT INTERSECTION COUNTY ROUTE 2 & KANSAS AVENUE		



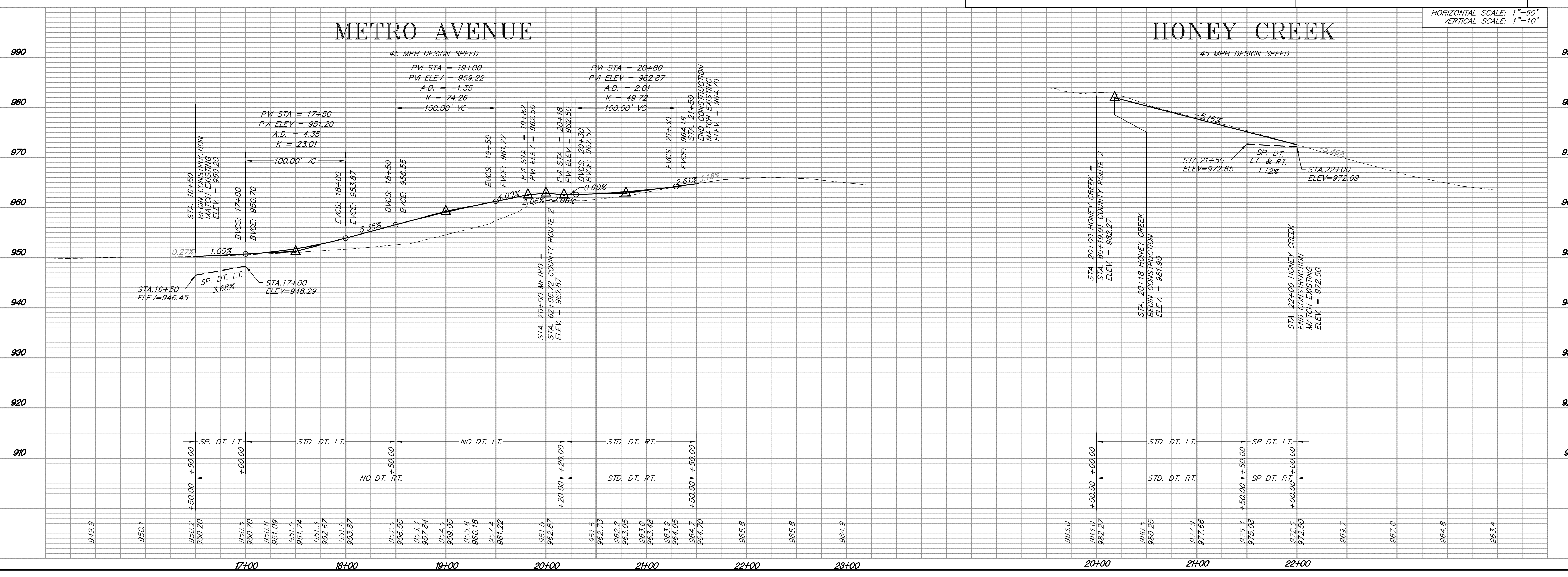
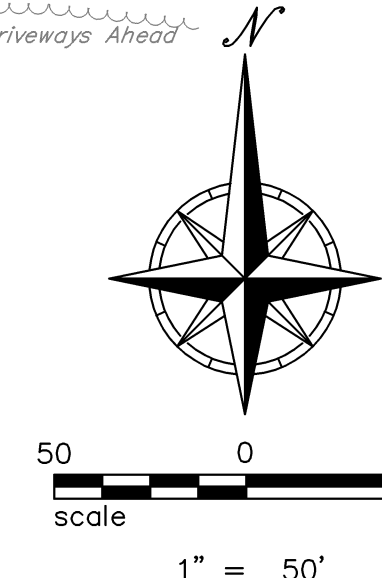
Drawing Path: L:\Land Projects\Itothe\2004\020\020.dwg; Street: 04-020_pp_route2-08.dwg
 Plotted at: Dec 18, 2006 - 1:44pm



MHS CONTROL POINT 10
N: 283899.53 E: 2179297.00
5/8" BAR 3" +/- BELOW GRADE
1) 46.76' SE TO NAIL & CAP IN POWER POLE
2) 43.24' SW TO NAIL & CAP IN POWER POLE
3) 47.46' NE TO 40D NAIL IN FENCE CORNER POST
4) 45.75' NW TO SE CORNER CONC. PILLAR

MHS CONTROL POINT 39
N: 286542.73 E: 2179219.85
1/2" IRON BAR W OF CENTERLINE COUNTY ROUTE 2
1) 32.65' W TO PK FND IN NORTH FACE POWER POLE
2) 42.10' E TO PK FND IN SOUTH FACE POWER POLE
3) 53.85' SE TO 60 D IN NW FACE POWER POLE
4) 39.75' SE TO MAG NAIL IN SE QUAD OF PAVEMENT

TBM#3 ELEV=984.93	MAGNAIL & SHINER ON ASPHALT 1) 96.00' NORTH FROM DRIVEWAY HOUSE # 16668 2) 10.00' WEST OF C 158TH
TBM#4 ELEV=985.01	CHISLED "O" ON SW CORNER OF BRIDGE OVER I-70 1) 0.3 MILES SOUTH FROM INT. 158TH & KANSAS 2) 12' WEST FROM C OF 158TH ST.



McAFEE, HENDERSON & STRICK, INC.
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6	5	4	3	2	1	12/03/04	Date
						PER COUNTY COMMENTS	Revisions

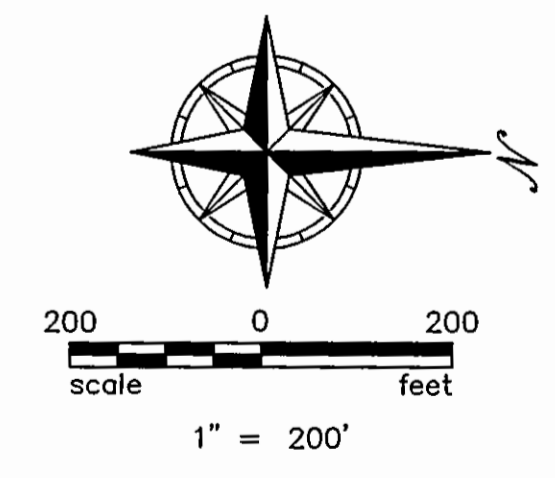
METRO AVE. & HONEY CREEK
LEAVENWORTH COUNTY, KANSAS
PLAN & PROFILE SHEET

Date:	9/16/04
Designed:	MFS
Drawn:	MFS
Checked:	CJF
Approved:	
Proj. No.:	2004.020
Sheet No.:	11

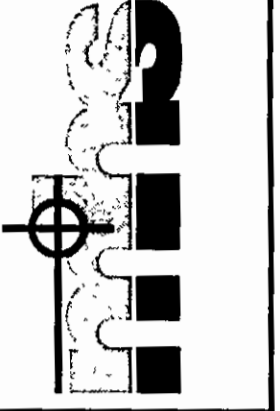


STORM DRAINAGE DESIGN TABLE
 Manning's n = 0.013 for RCP K10 = 1.0 K100 = 1.25
 Manning's n = 0.024 for CMP K50 = 1.2

Line	Pipe Identification	Distance (ft)	Grade (%)	Size (in)	Capacity (cfs)	Velocity (ft/s)	Accum. Runoff (cfs)	Structure Identification	Structure Description	Drainage Designation	Area (Acres)	C	AC	Accum. AC	Tc (min)	Intensity 10-year (in/hr)	Runoff 10-year (cfs)	Accum. 10-year Runoff (cfs)	Intensity 50-year (in/hr)	Runoff 50-year (cfs)	Accum. 50-year Runoff (cfs)	Intensity 100-year (in/hr)	Runoff 100-year (cfs)	Accum. 100-year Runoff (cfs)	Location	Notes	
1	P-103	152.52	4.64%	15" CMP	7.55	6.16	5.92	103	15" CM END SECTION	DA #14	0.7	0.75	0.53	0.53	5.0	7.26	3.85	3.85	9.31	5.92	5.92	10.20	6.76				
	P-102	272.69	2.70%	18" CMP	9.37	5.30	9.27	102	4" X 4" AREA INLET	DA #1	0.4	0.75	0.30	0.83	5.0	7.26	2.18	6.03	9.31	3.35	9.27	10.20	10.58				
	P-101	84.85	1.25%	24" RCP	25.35	8.07	25.25	101	4" X 4" AREA INLET	DA #11	1.9	0.75	1.43	2.26	5.0	7.26	10.38	16.41	9.31	15.98	25.25	10.20	28.82		STA. 10+50, ROUTE 2		
								100	24" RC END SECTION																		
2	P-201	88.00	1.70%	18" RCP	13.73	7.77	2.57	201	18" RC END SECTION	DA #2	0.6	0.38	0.23	0.23	5.0	7.26	1.67	1.67	9.31	2.57	2.57	10.20	2.93		STA. 20+30, ROUTE 2		
								200	18" RC END SECTION																		
3	P-301	80.00	1.78%	24" RCP	30.26	9.63	12.60	301	24" RC END SECTION	DA #3	4.1	0.38	1.56	1.56	15.0	5.21	8.13	8.13	6.73	12.60	12.60	7.40	14.43		STA. 28+50, ROUTE 2		
								300	24" RC END SECTION																		
4	P-402	33.20	1.00%	15" CMP	3.51	2.86	0.32	402	6" X 4" CURB INLET	DA #12	0.1	0.38	0.04	0.04	15.0	5.21	0.21	0.21	6.73	0.32	0.32	7.40	0.37		STA. 38+01.40, ROUTE 2		
	P-401	64.80	2.96%	42" CMP	94.01	9.77	63.01	401	6" X 4" CURB INLET	DA #13	0.3	0.38	0.11	8.05	5.21	0.57	41.94	6.73	0.89	65.01	7.40	74.46			STA. 38+34.60, ROUTE 2	ADD LINE 11	
								400	END OF EX. 42" CMP																		
5	P-501	72.00	1.44%	42" RCP	121.05	12.58	68.84	501	42" RC END SECTION	DA #5	22.8	0.38	8.66	8.66	15.0	5.21	45.12	45.12	6.73	69.94	69.94	7.40	80.11		STA. 57+00, ROUTE 2		
								500	42" RC END SECTION																		
6	P-601	64.00	1.73%	18" RCP	13.93	7.88	4.60	601	18" RC END SECTION	DA #6	1.5	0.38	0.57	0.57	15.0	5.21	2.97	2.97	6.73	4.60	4.60	7.40	5.27		STA. 63+50, ROUTE 2		
								600	18" RC END SECTION																		
7	P-701	64.00	1.41%	18" RCP	12.50	7.08	3.35	701	18" RC END SECTION	DA #7	0.8	0.38	0.30	0.30	5.0	7.26	2.18	2.18	9.31	3.35	3.35	10.20	3.83		STA. 70+50, ROUTE 2		
								700	18" RC END SECTION																		
8	P-801	72.00	1.13%	36" RCP	71.08	10.06	37.47	801	36" RC END SECTION	DA #8	12.2	0.38	4.64	4.64	15.0	5.21	24.17	24.17	6.73	37.47	37.47	7.40	42.92		STA. 79+80, ROUTE 2		
								800	36" RC END SECTION																		
9	P-901	64.00	3.14%	18" RCP	16.86	10.56	4.93	901	18" RC END SECTION	DA #9	1.6	0.38	0.61	0.61	15.0	5.21	3.18	3.18	6.73	4.93	4.93	7.40	5.64		STA. 91+40, ROUTE 2		
								900	18" RC END SECTION																		
10	P-1001	56.00	3.29%	24" RCP	41.13	13.09	20.84	1001	24" RC END SECTION	DA #10	5.3	0.38	2.01	2.59	15.0	5.21	10.47	13.44	6.73	16.23	20.84	7.40	23.97		STA. 16+50, METRO	ADD STORM LINE 6	
								1000	24" RC END SECTION																		
11	P-1101	25.54	2.96%	42" CMP	94.01	9.77	63.80	1101	EX. 42" GRATE INLET	DA #4	20.8	0.38	7.90	7.90	15.0	5.21	41.16	41.16	6.73	63.80	63.80	7.40	73.08				
								401	6" X 4" CURB INLET																		



McAFEE, HENDERSON & STRICK, INC.
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No.	Date	PER COUNTY COMMENTS	Revisions	MS	MCH	By
1	12/21/04					
2						
3						
4						
5						
6						

**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 DRAINAGE MAP**

Date: 9/16/04
 Designed: MFS
 Drawn: MFS
 Checked: C/JF
 Approved:
 Proj. No. 2004.020
 Sheet No.

Drawing Path: L:\Land Projects\04\the2004\020\04\020\04\020\pp-storm.dwg
 Plotted at: Nov 29, 2006 - 3:14pm

Richard H. Brauer and Sons, Inc.
 Book 742/Page 1423

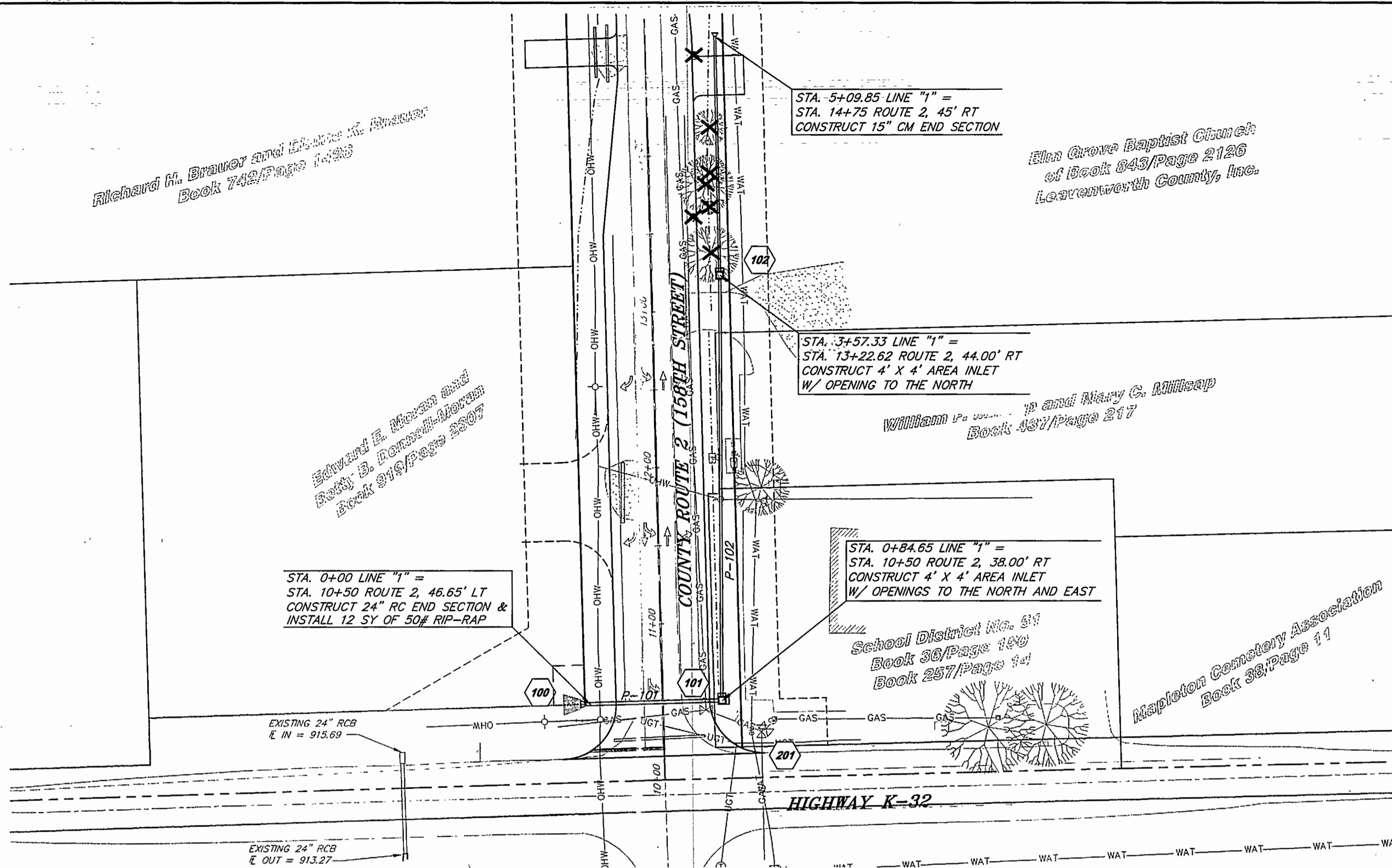
Edward E. Moran and
 Betty B. Roman-Lerman
 Book 919/Page 2307

Elm Grove Baptist Church
 of Book 843/Page 2126
 Leavenworth County, Inc.

William P. ... and Mary G. Millner
 Book 437/Page 217

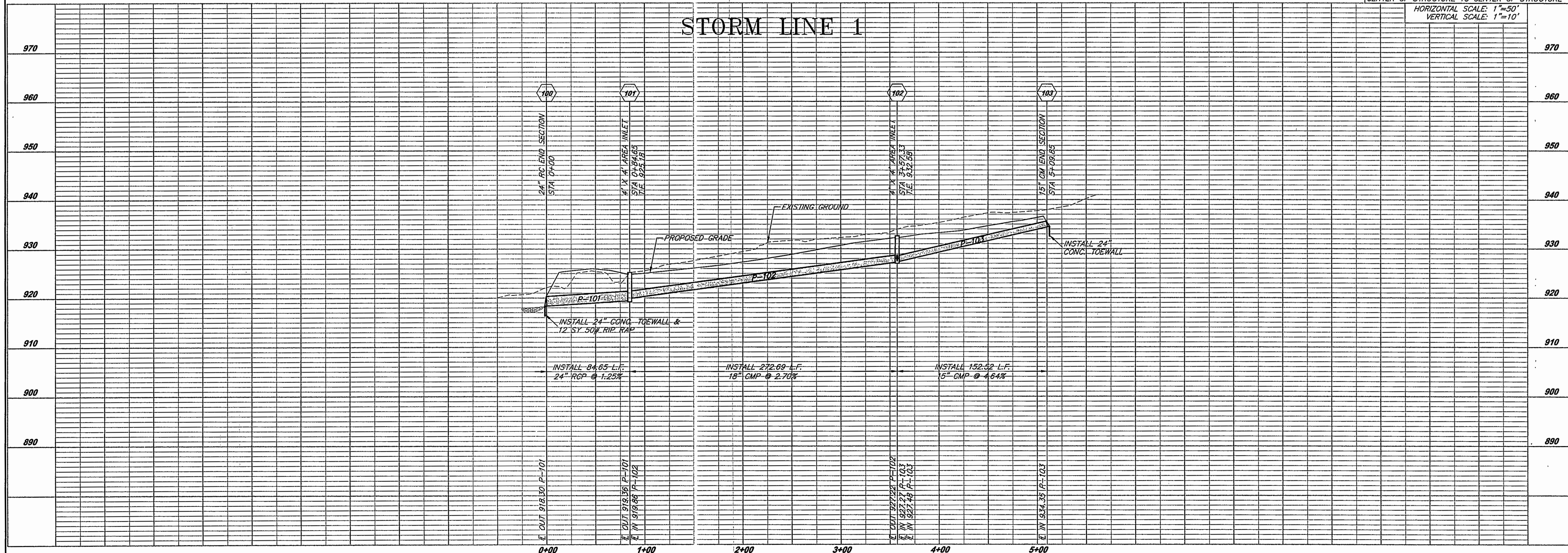
School District No. 57
 Book 36/Page 149
 Book 257/Page 14

Mapleton Cemetery Association
 Book 38/Page 11

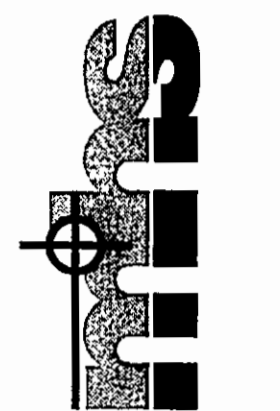


NOTE:
 ALL PIPE LENGTHS AND SLOPES CALCULATED FROM
 CENTER OF STRUCTURE TO CENTER OF STRUCTURE
 HORIZONTAL SCALE: 1"=50'
 VERTICAL SCALE: 1"=10'

STORM LINE 1



McAFEE, HENDERSON & STRICK, INC.
 Civil Engineering & Land Surveying
 1290 W. 151st St., Suite 200 Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 380-8865



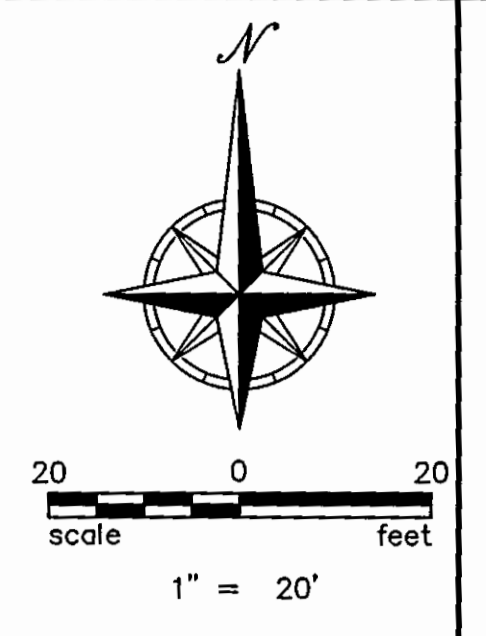
NO.	DATE	BY	REVISIONS
1	09/16/04	MFS	PER COUNTY COMMENTS
2			
3			
4			
5			

COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 STORM PLAN & PROFILE

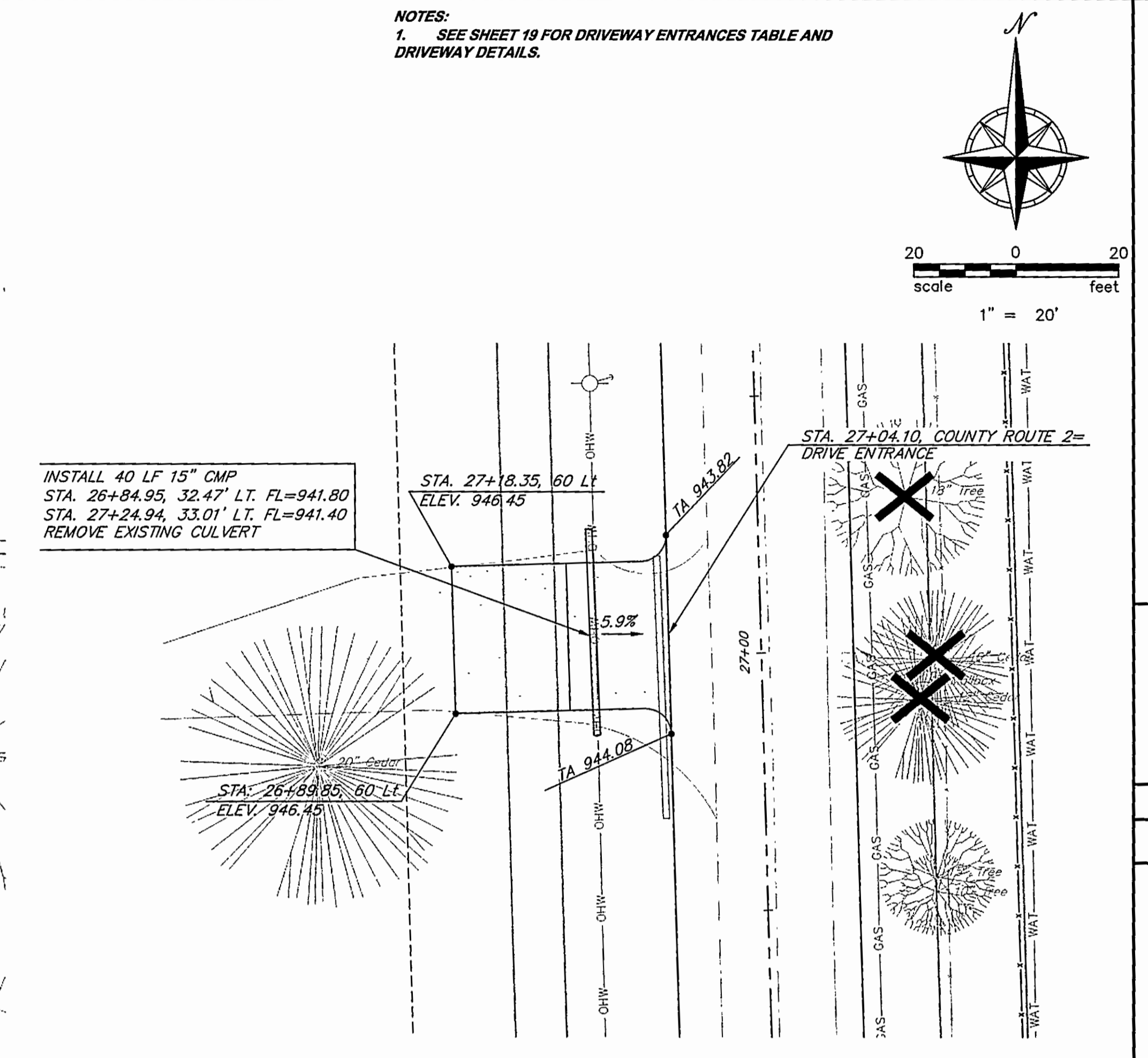
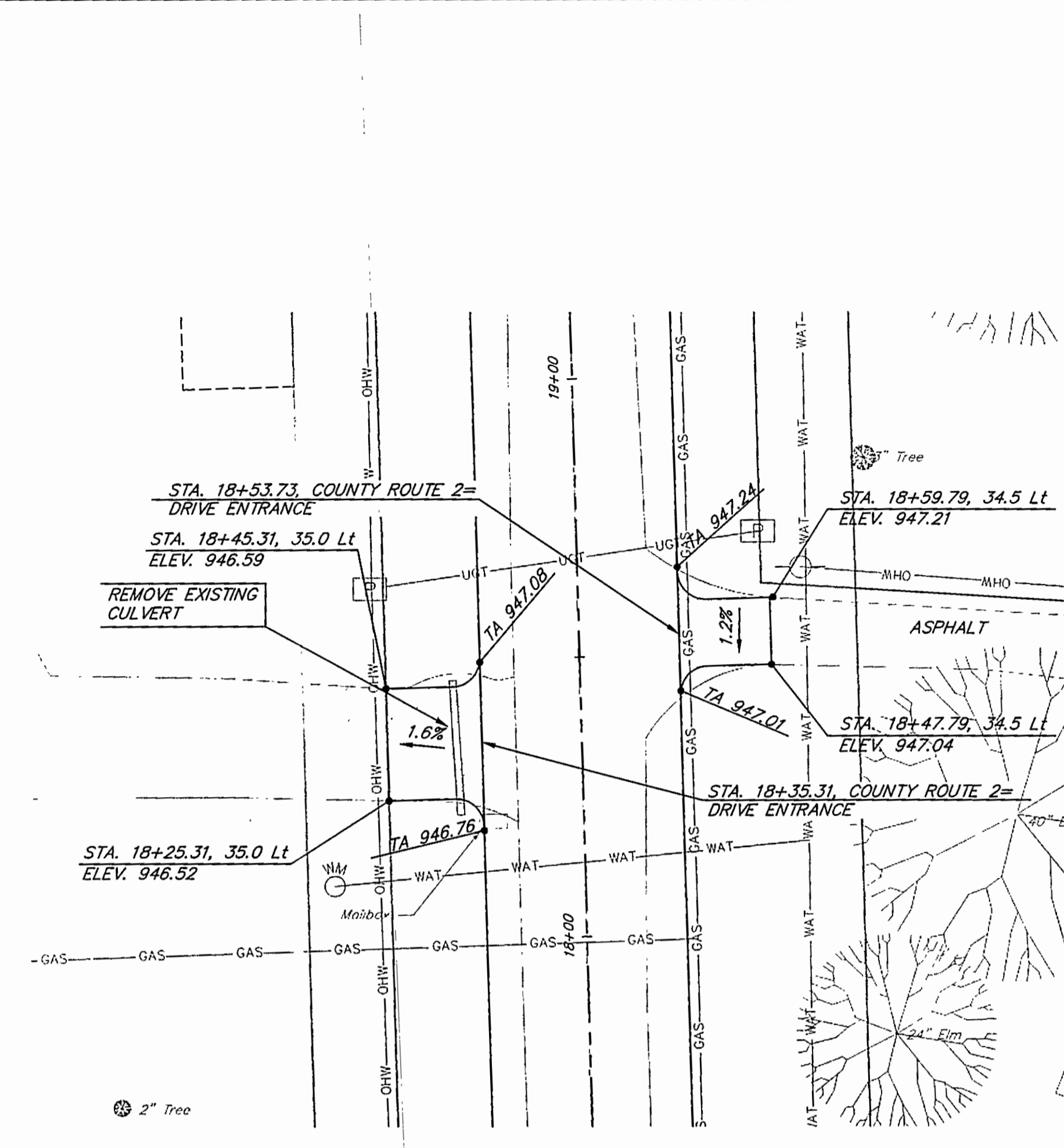
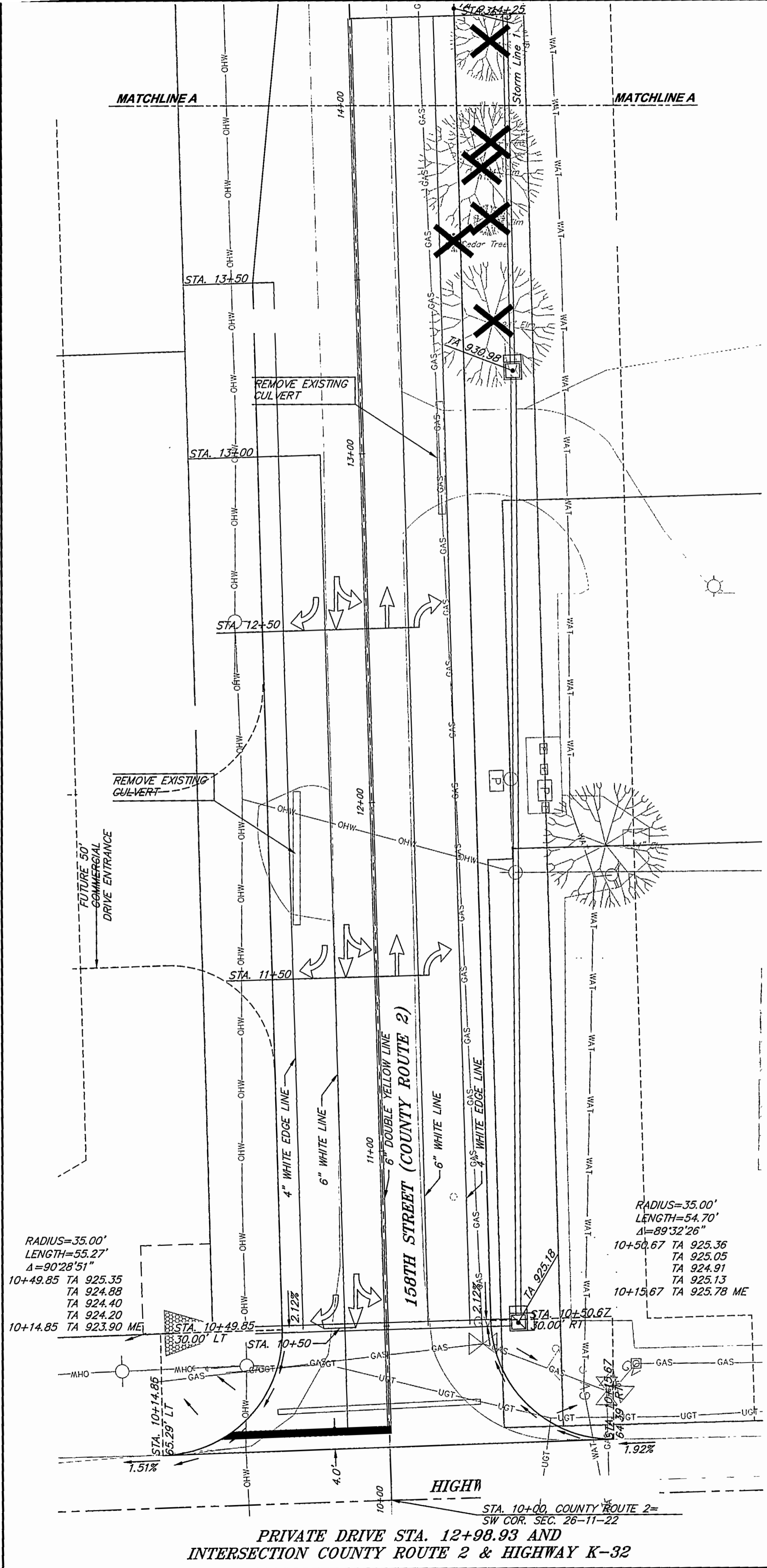
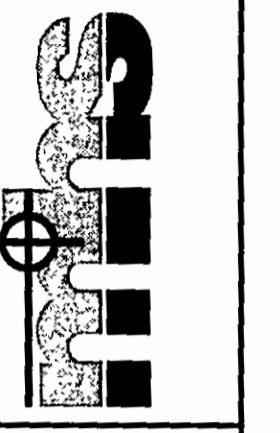
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 Designed: MFS
 Drawn: PMH
 Checked: MDH
 Approved:
 Proj. No. 2004.020
 Sheet No:

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NOTES:
 1. SEE SHEET 19 FOR DRIVEWAY ENTRANCES TABLE AND DRIVEWAY DETAILS.

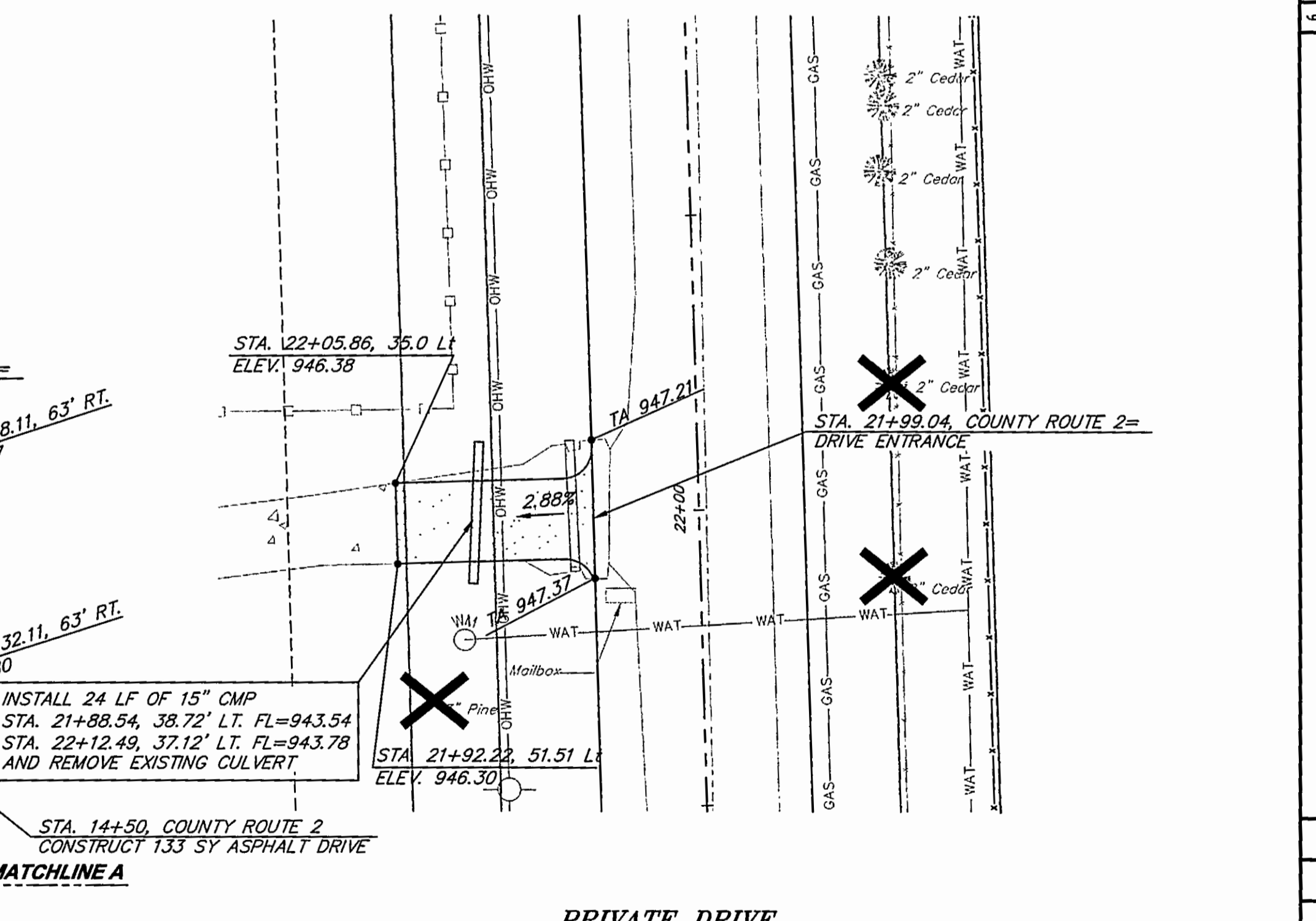
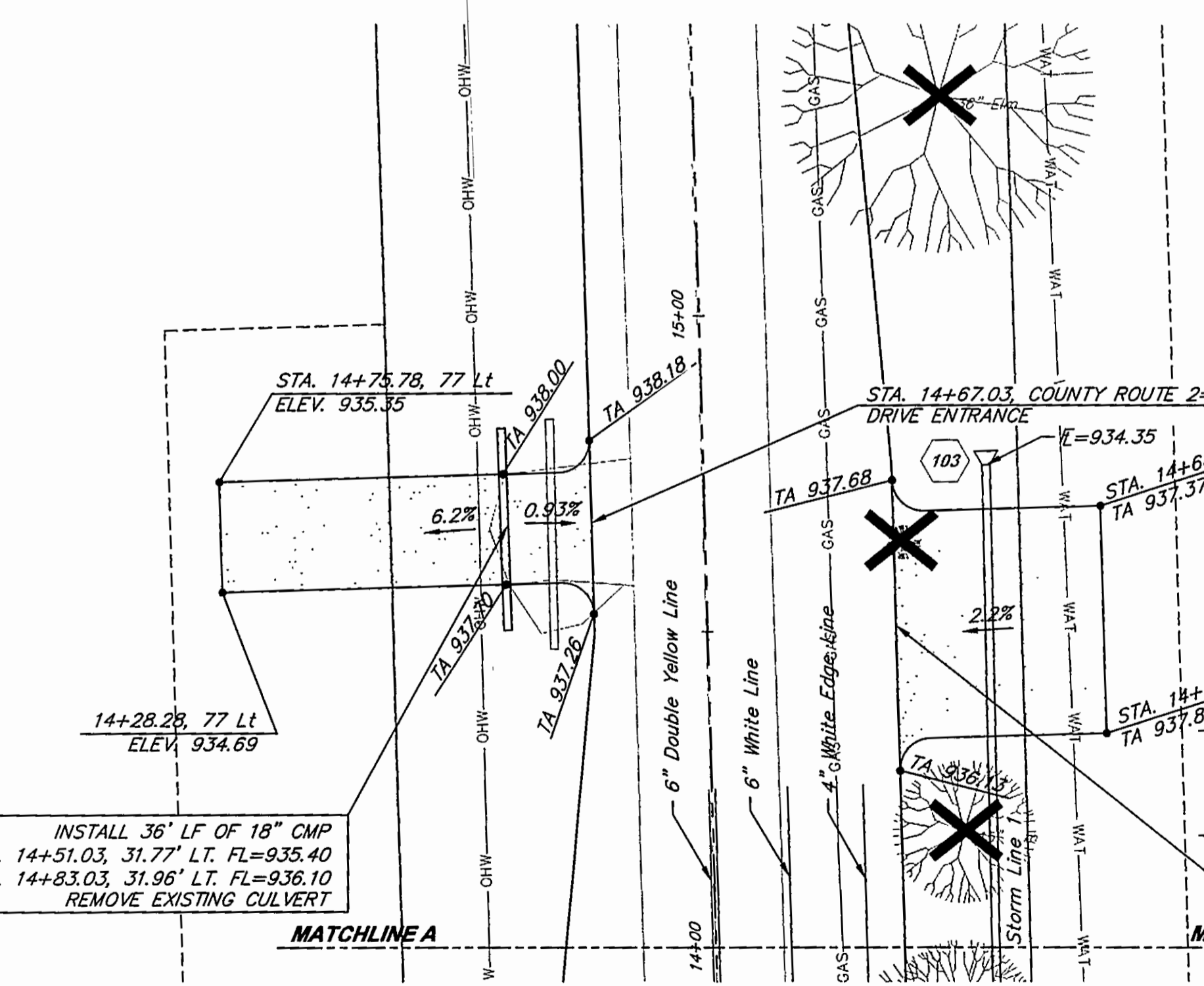


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PRIVATE DRIVE
 STA. 18+35.31 AND STA. 18+53.73

PRIVATE DRIVE
 STA. 27+04.10 COUNTY ROUTE 2



PRIVATE DRIVE
 STA. 14+67.03 AND STA. 14+50
 COUNTY ROUTE 2

PRIVATE DRIVE
 STA. 21+99.04 COUNTY ROUTE 2

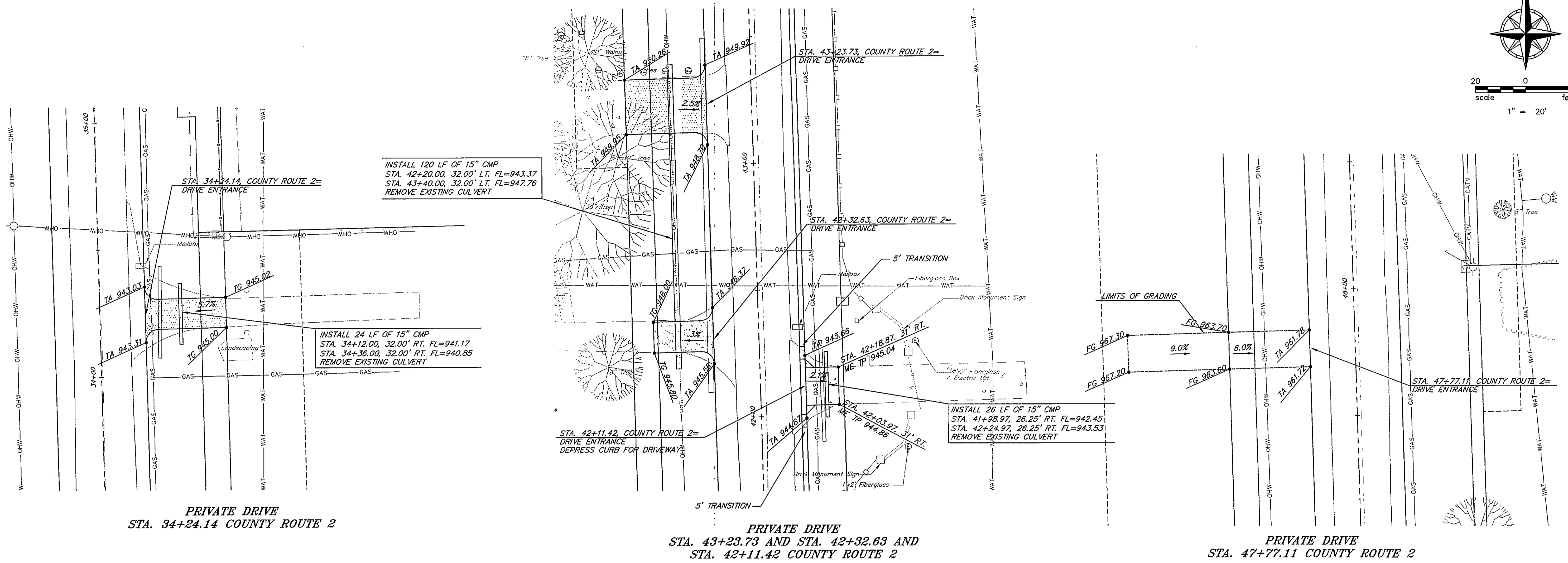
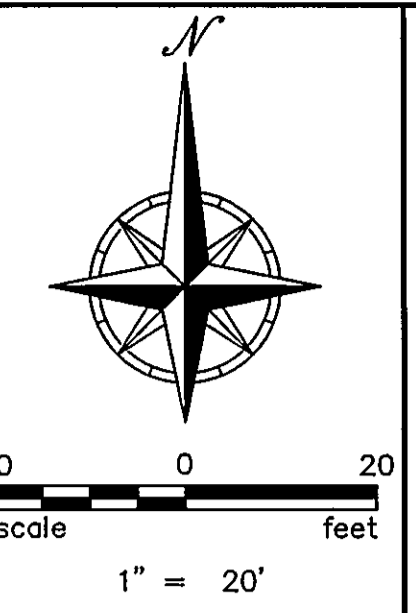
No.	Date	By	App.	Comments
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5				
4				
3				
2				
1	12/09/04			

**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 DRIVEWAY ENTRANCES**

Date: 9/16/04
 Designed: MFS
 Drawn: PMH
 Checked: MDH
 Approved:
 Proj. No. 2004.020
 Sheet No.

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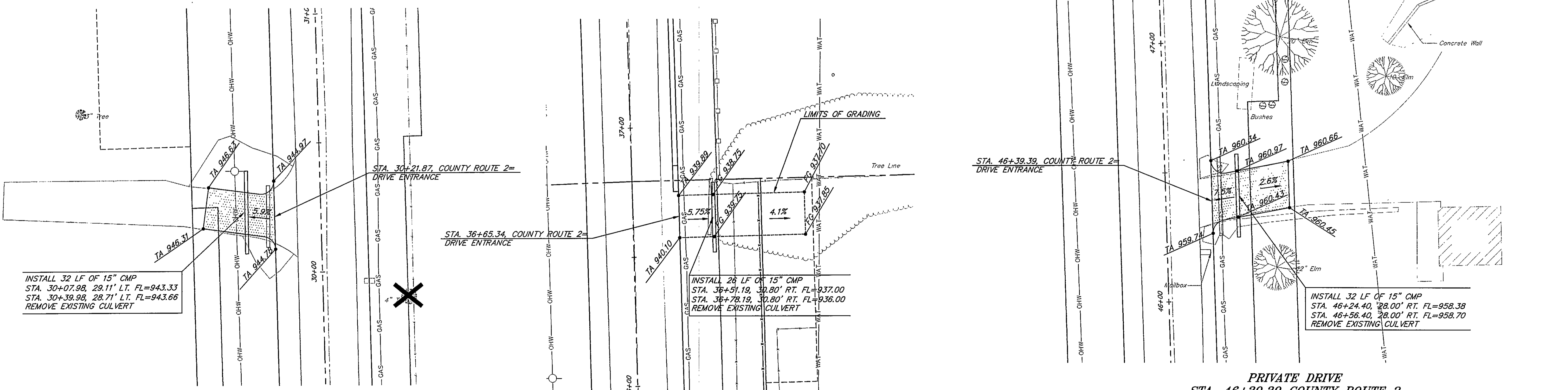
NOTES:
 1. SEE SHEET 19 FOR DRIVEWAY ENTRANCES TABLE AND DRIVEWAY DETAILS.



PRIVATE DRIVE
 STA. 34+24.14 COUNTY ROUTE 2

PRIVATE DRIVE
 STA. 43+23.73 AND STA. 42+32.63 AND
 STA. 42+11.42 COUNTY ROUTE 2

PRIVATE DRIVE
 STA. 47+77.11 COUNTY ROUTE 2

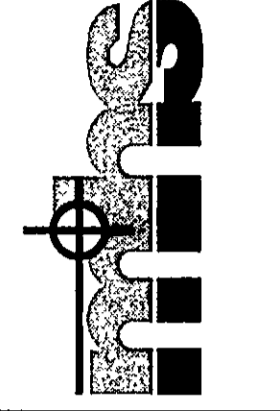


PRIVATE DRIVE
 STA. 30+21.87 COUNTY ROUTE 2

PRIVATE DRIVE
 STA. 36+65.34 COUNTY ROUTE 2

PRIVATE DRIVE
 STA. 46+39.39 COUNTY ROUTE 2

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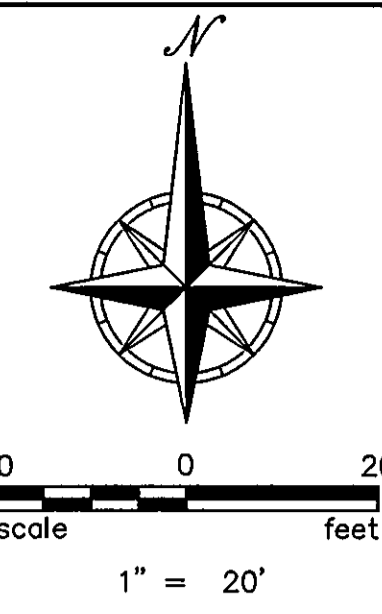
NO.	DATE	BY	CHKD.	REVISIONS
6				
5				
4				
3				
2				
1	10/09/04	MDS	MDH	

**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 DRIVEWAY ENTRANCES**

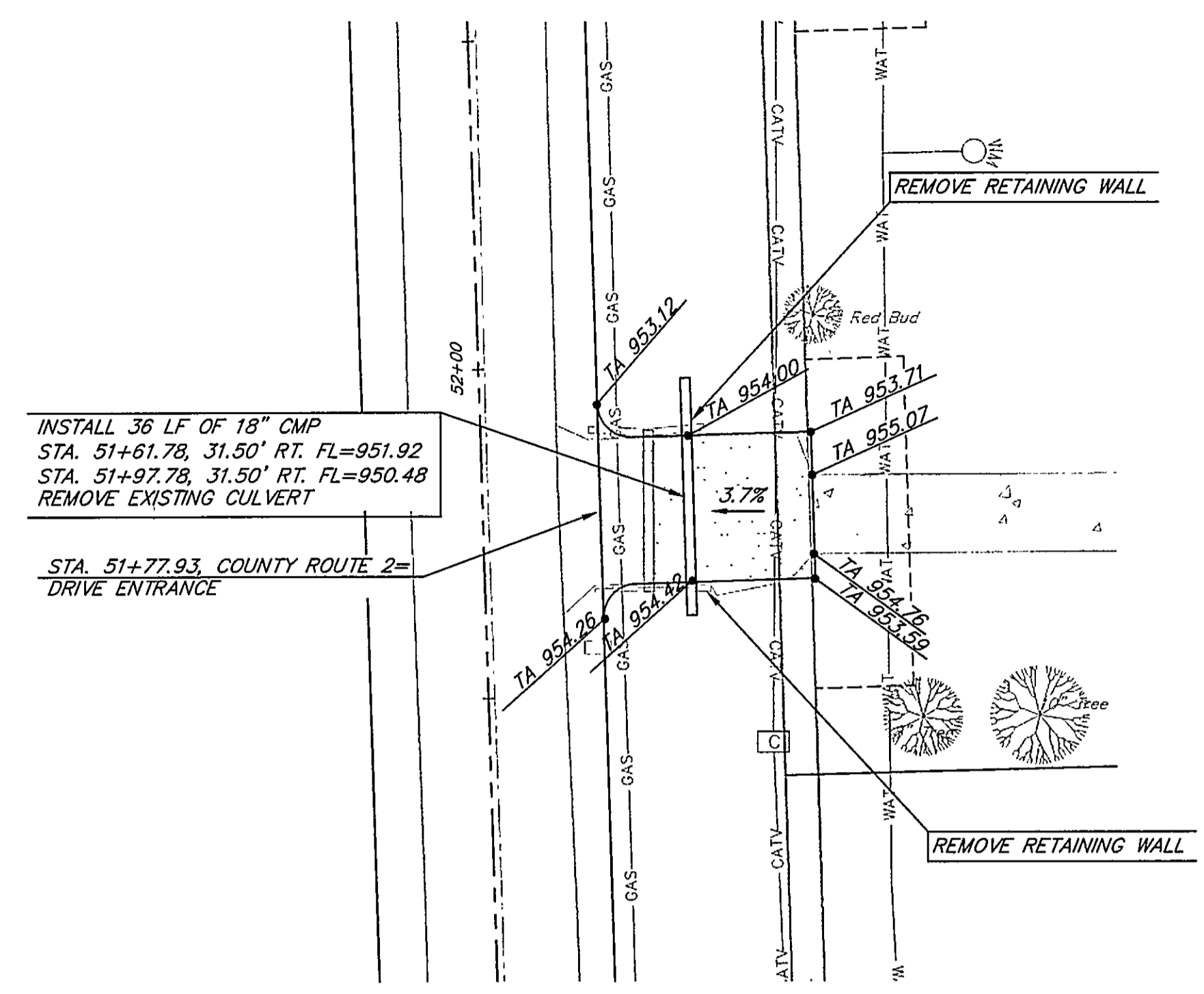
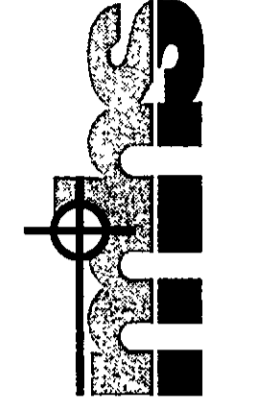
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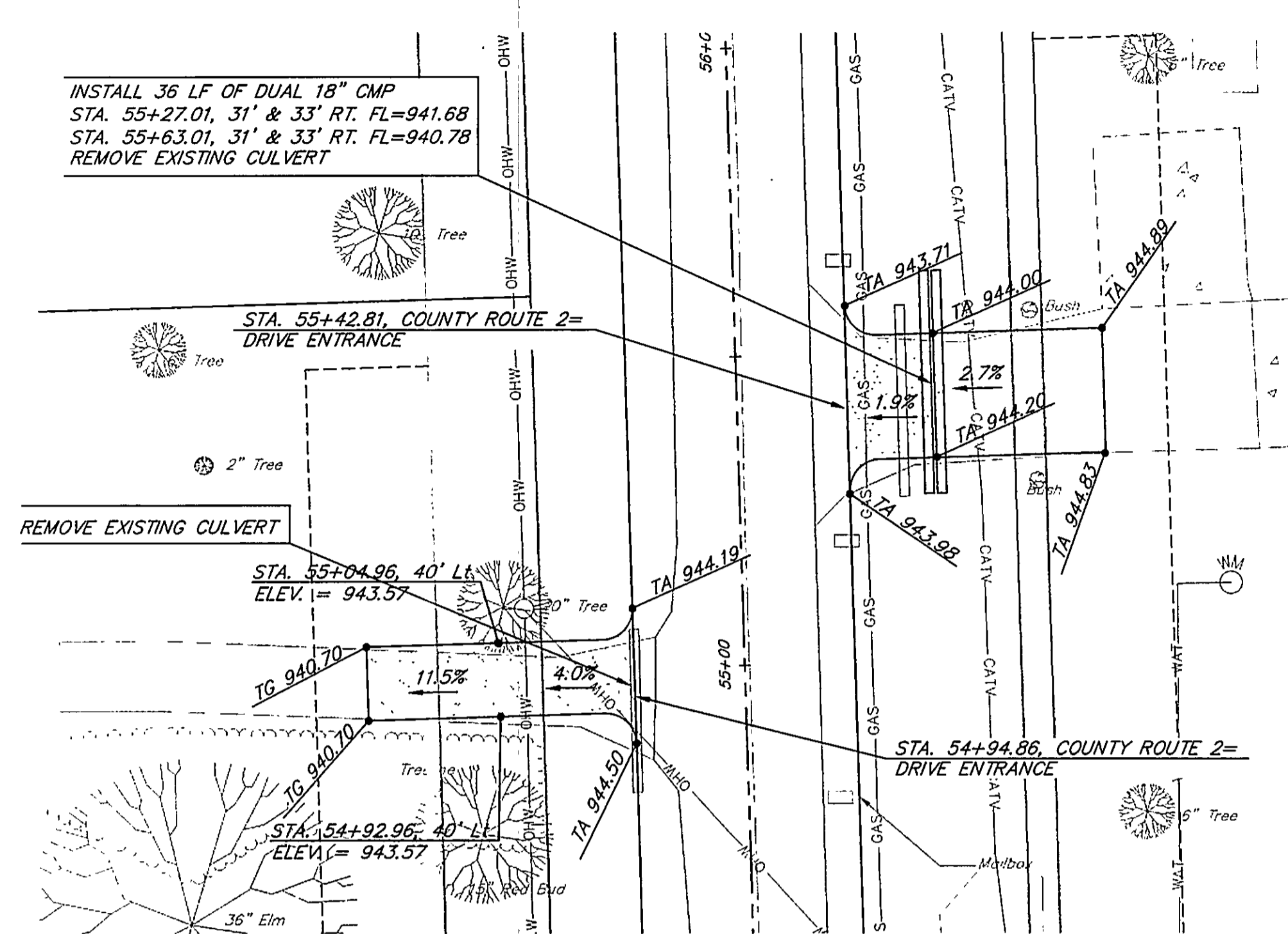
NOTES:
 1. SEE SHEET 19 FOR DRIVEWAY ENTRANCES TABLE AND DRIVEWAY DETAILS.



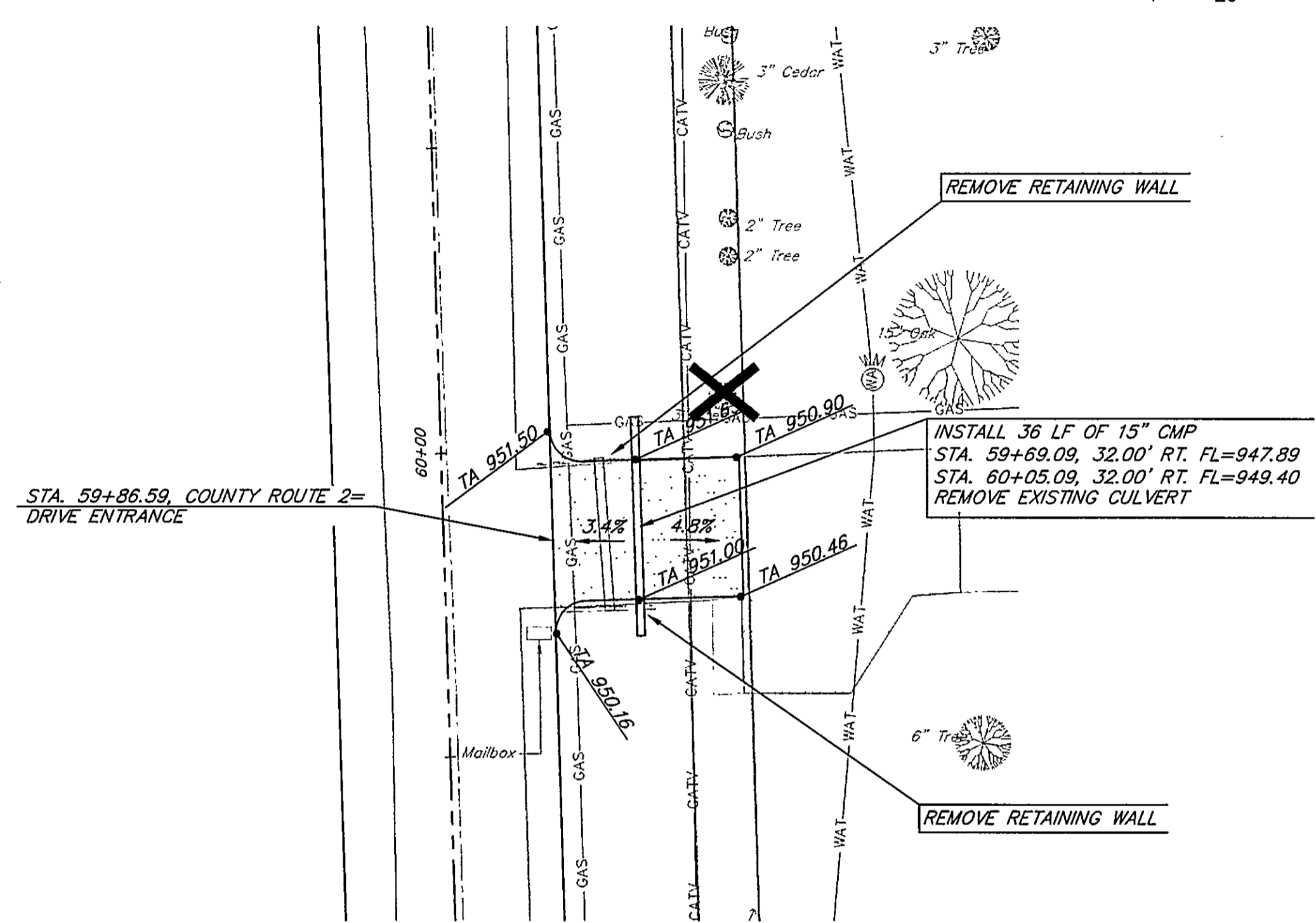
McAFEE, HENDERSON & STRICK, INC.
 Civil Engineering & Land Surveying
 1290 W. 151st St., Suite 200 Olathe, KS 66061
 Ph: (913) 762-7744 Fax: (913) 390-9885



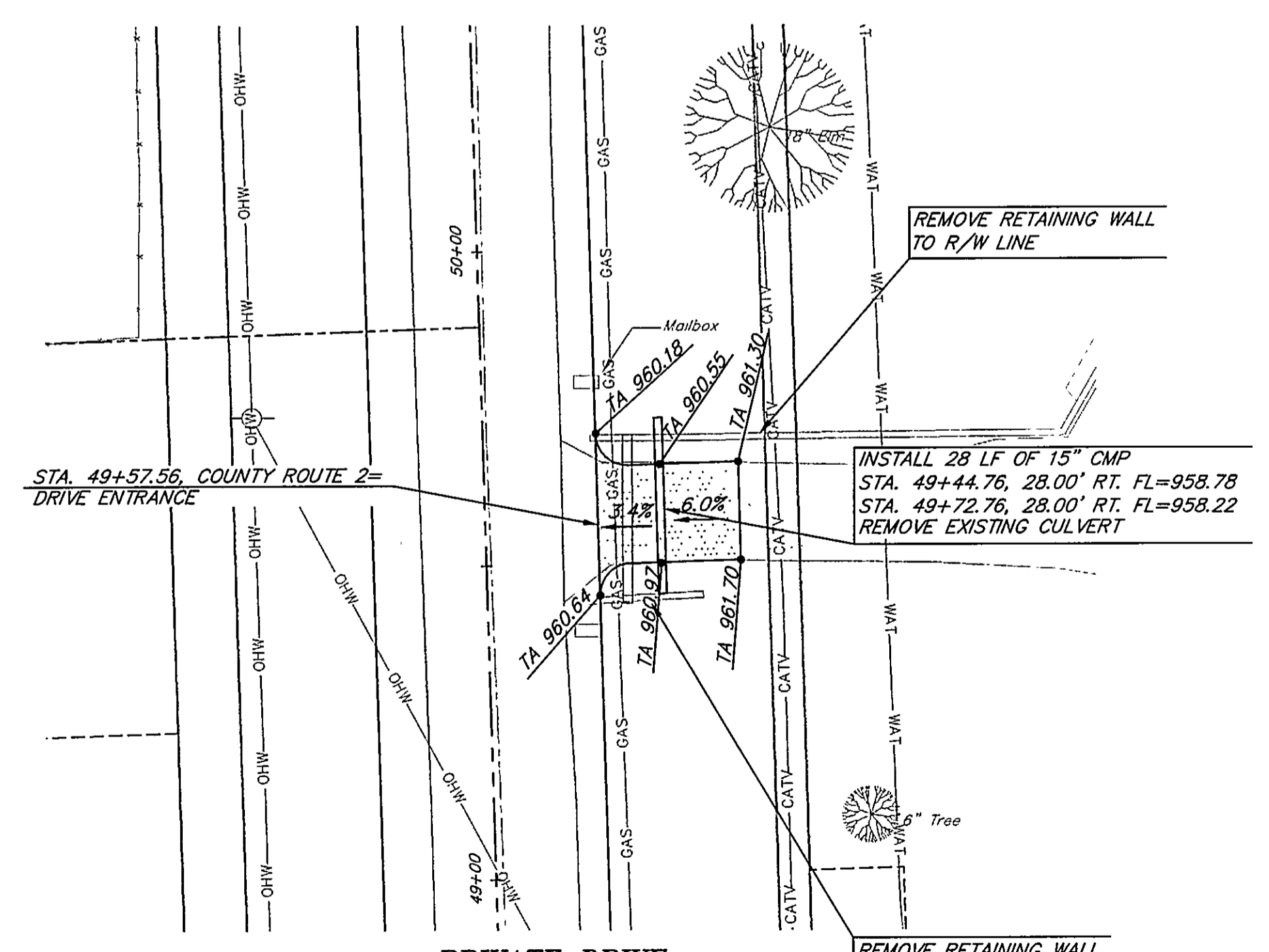
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STA. 51+77.93 COUNTY ROUTE 2



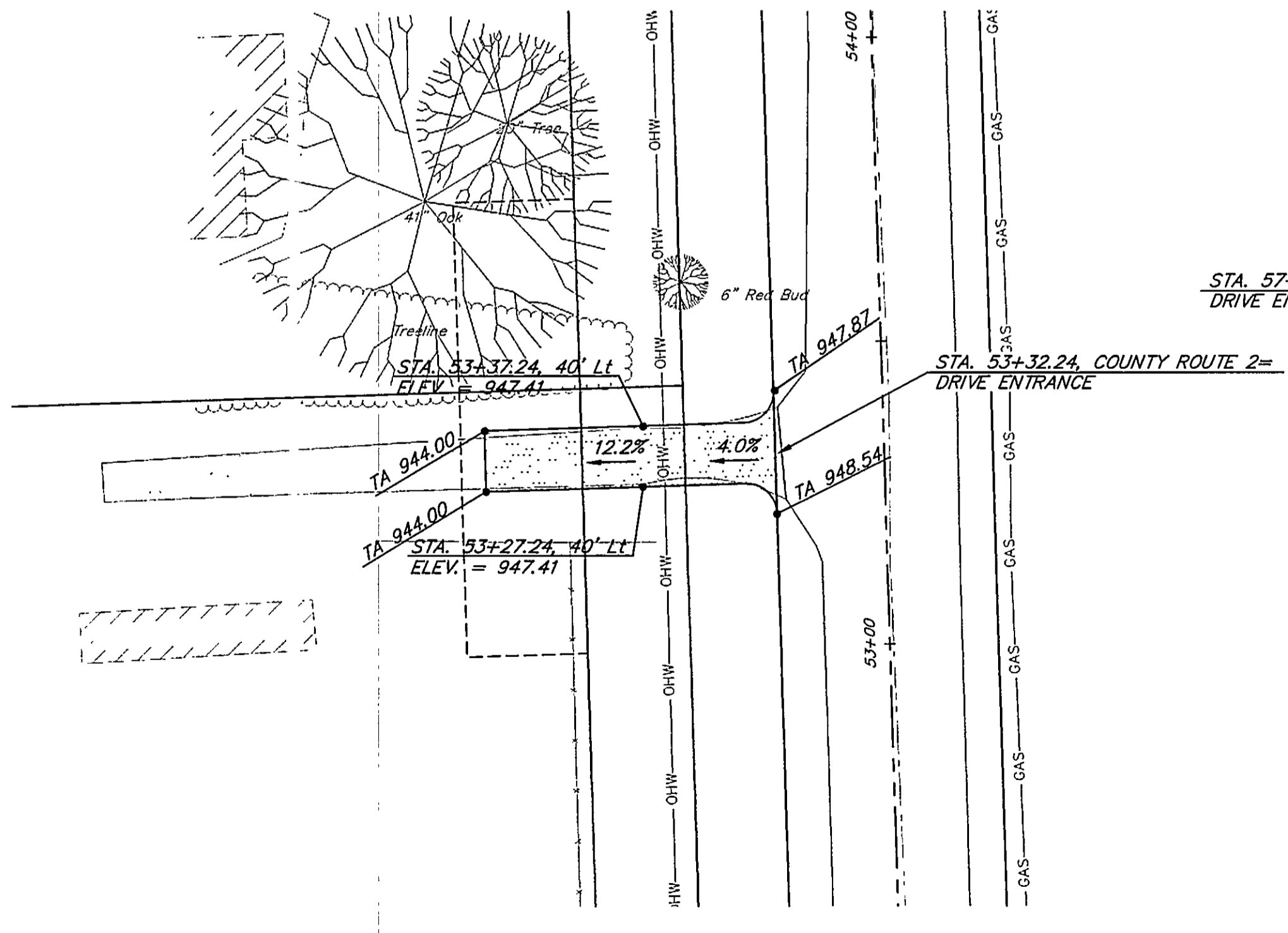
PRIVATE DRIVE
STA. 54+98.86 AND STA. 55+42.81
COUNTY ROUTE 2



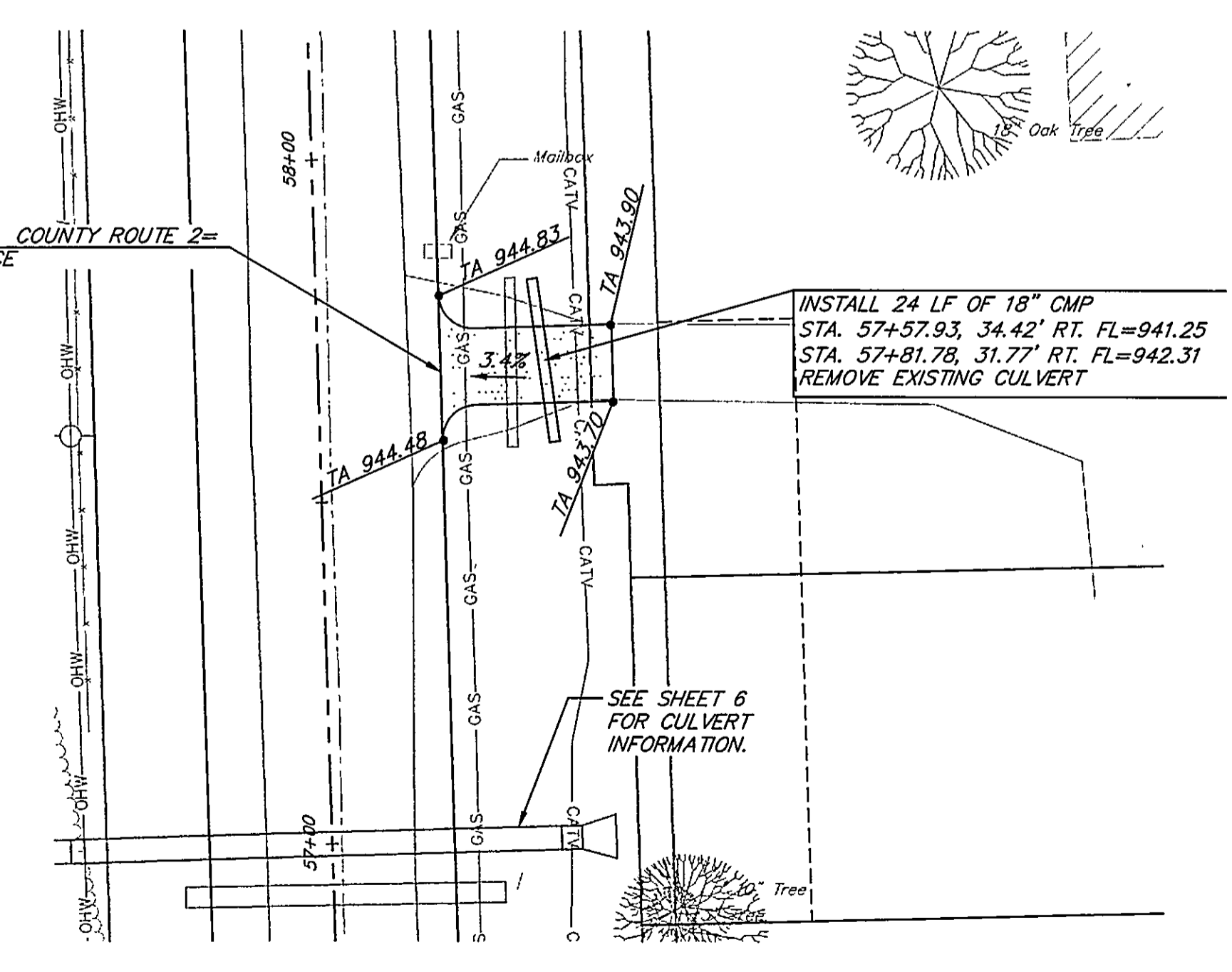
PRIVATE DRIVE
STA. 59+86.59 COUNTY ROUTE 2



PRIVATE DRIVE
STA. 49+57.56 COUNTY ROUTE 2



PRIVATE DRIVE
STA. 53+32.24 COUNTY ROUTE 2



PRIVATE DRIVE
STA. 57+69.22 COUNTY ROUTE 2

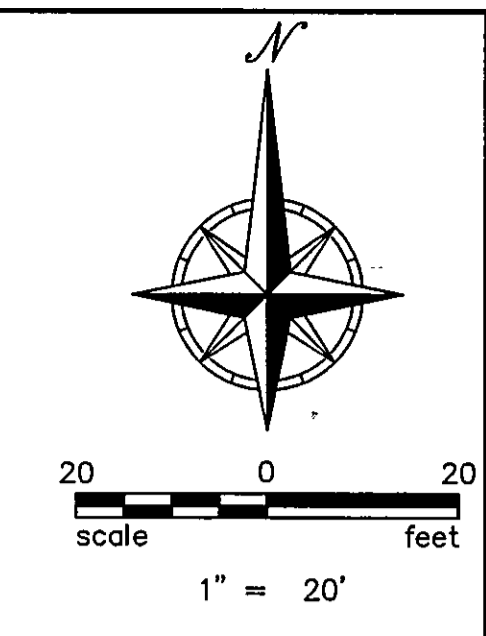
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COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
DRIVEWAY ENTRANCES

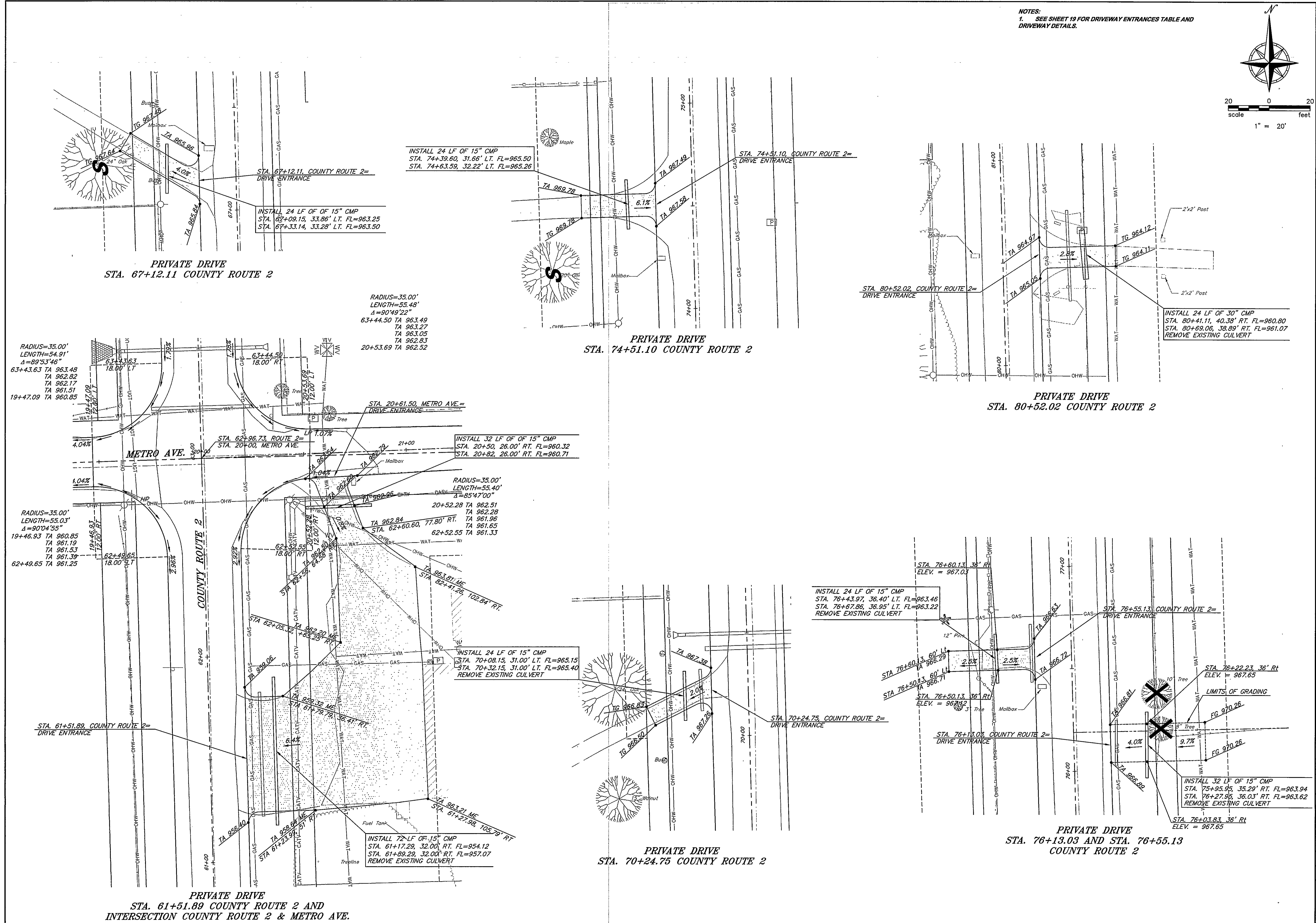
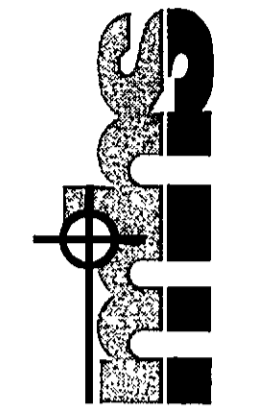
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 Drawn: PMH
 Checked: MDH
 Approved:
 Proj. No. 2004.020
 Sheet No:

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 Plotted at: Dec 18, 2006 - 10:59am

NOTES:
 1. SEE SHEET 19 FOR DRIVEWAY ENTRANCES TABLE AND DRIVEWAY DETAILS.



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 Civil Engineering & Land Surveying
 17801 S. 15th Street, Suite 200, Olathe, KS 66061
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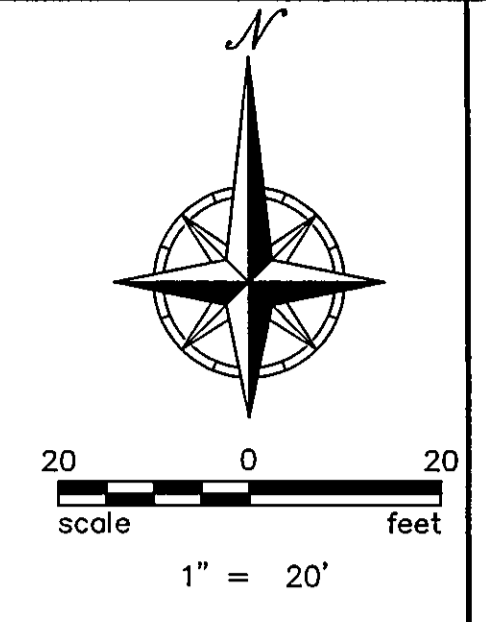
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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 DRIVEWAY ENTRANCES**

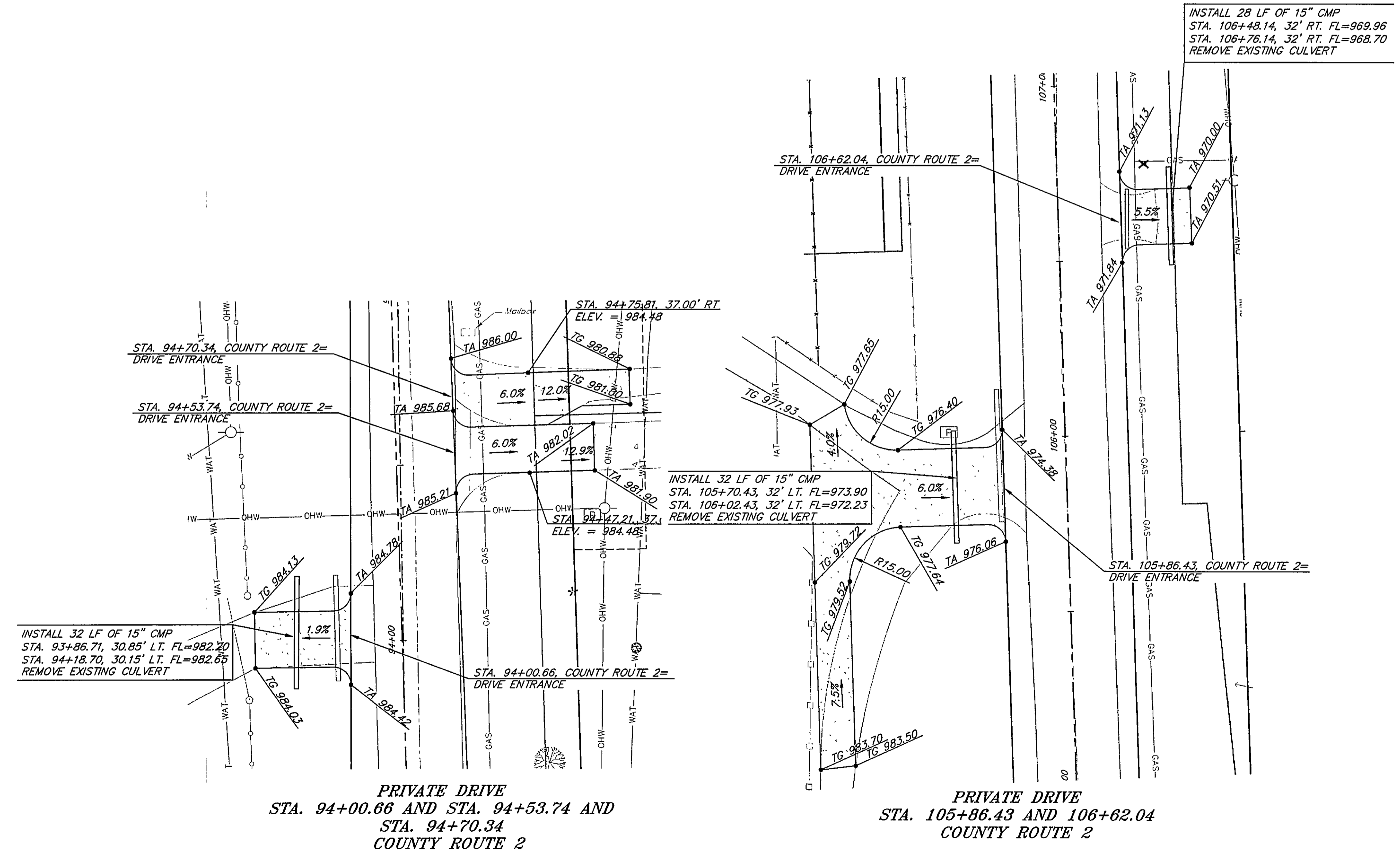
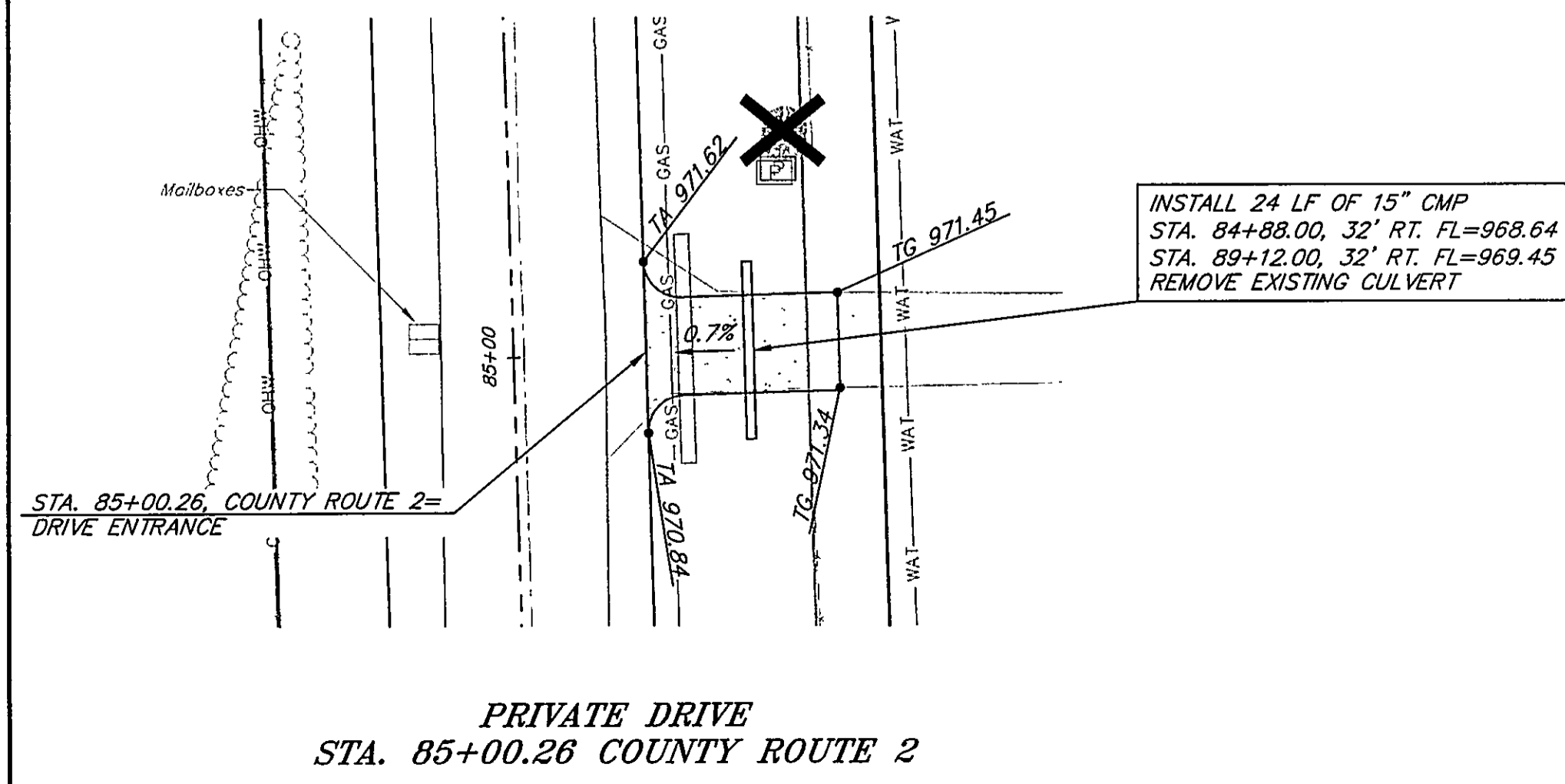
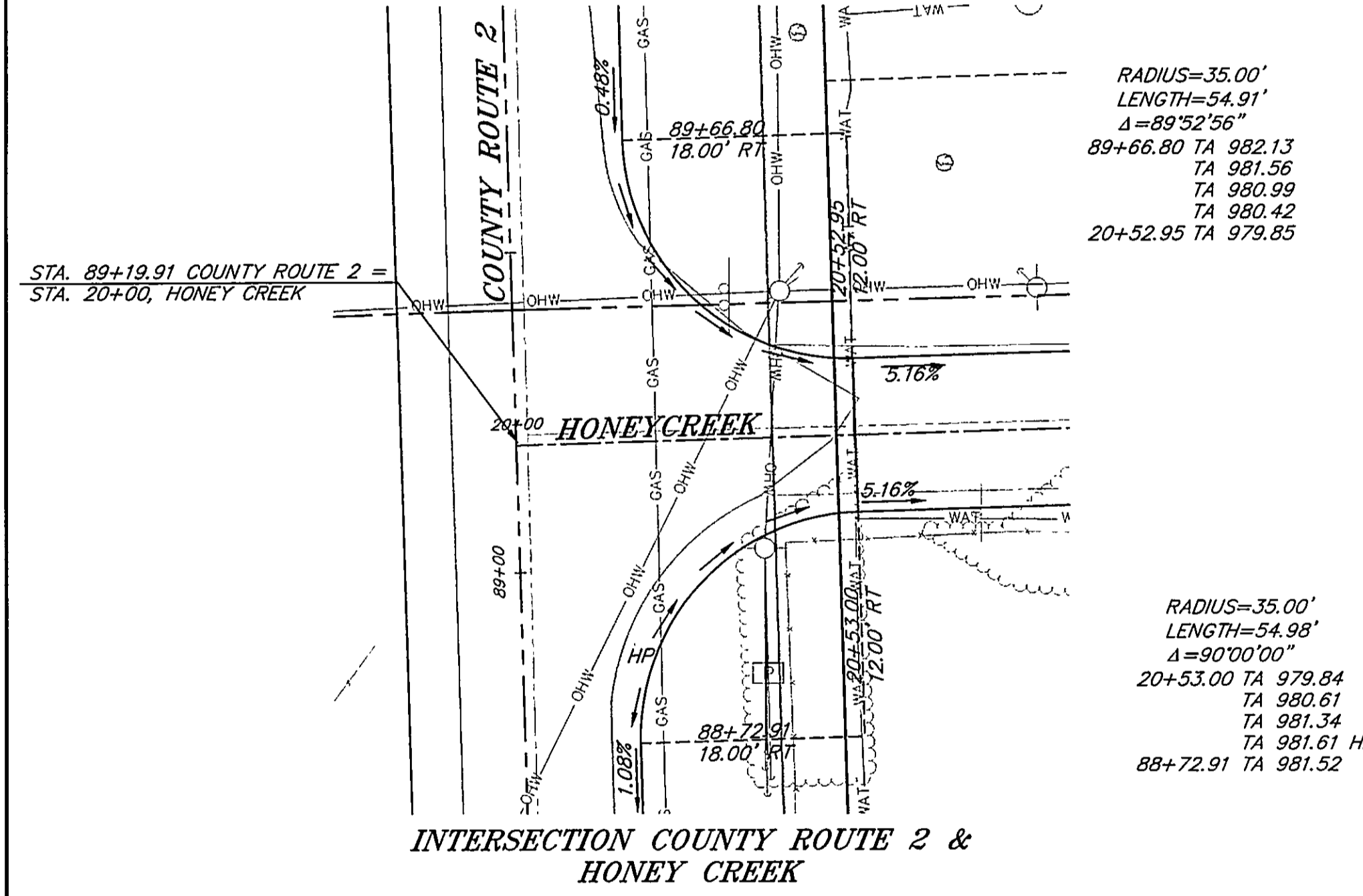
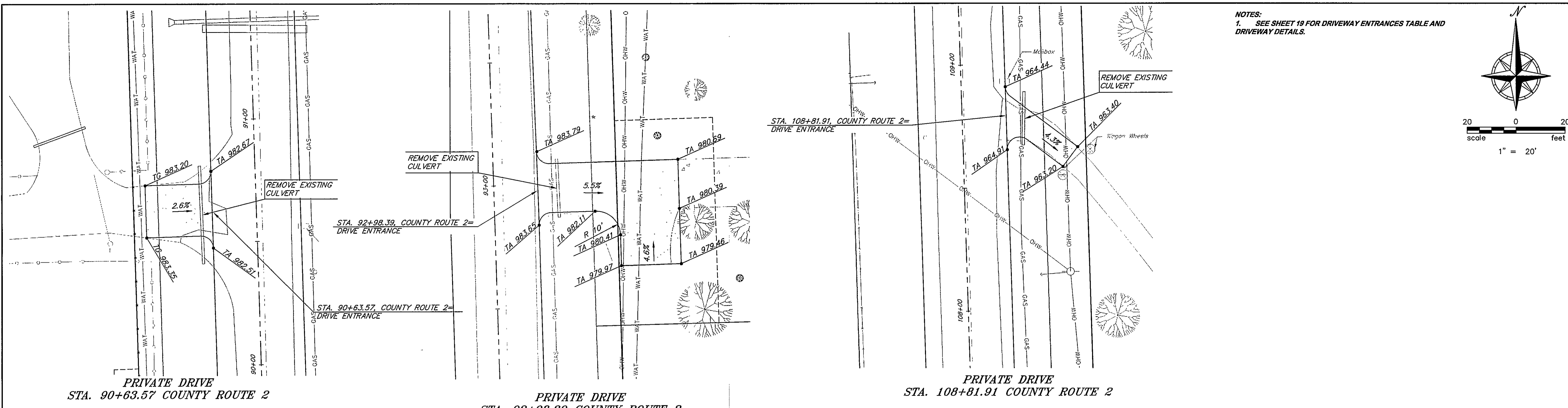
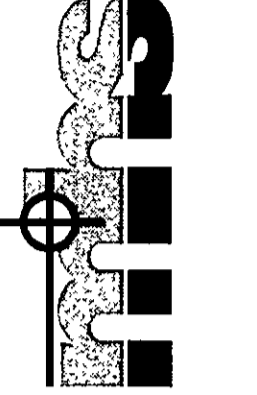
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 Approved:
 Proj. No. 2004.020
 Sheet No:

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 Plotted at: Dec 18, 2006 - 11:05am

NOTES:
 1. SEE SHEET 19 FOR DRIVEWAY ENTRANCES TABLE AND DRIVEWAY DETAILS.



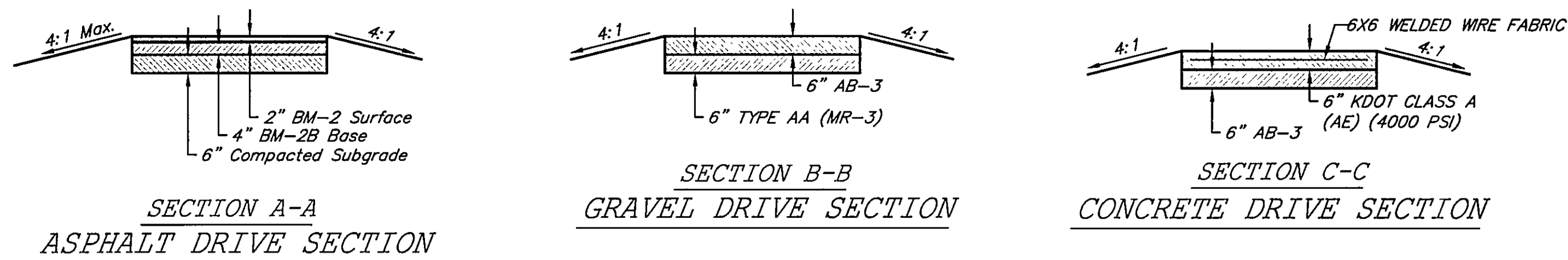
McAFEE, HENDERSON & STRICK, INC.
 Civil Engineering & Land Surveying
 1230 W. 151st St. Suite 200 Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 390-9885



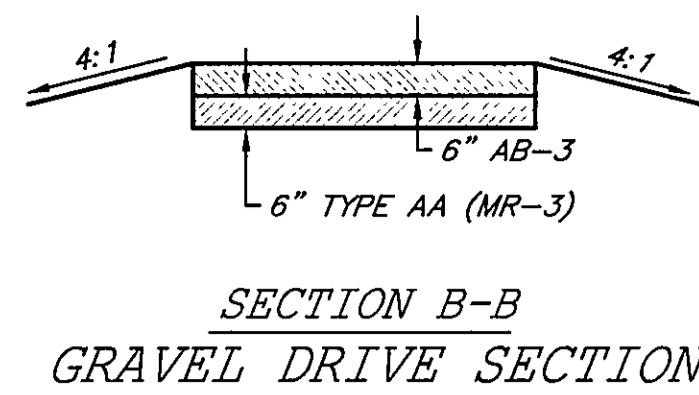
No.	Date	PER COUNTY COMMENTS	MFS	MDH	APR
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2			BY		
3					
4					
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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 DRIVEWAY ENTRANCES**

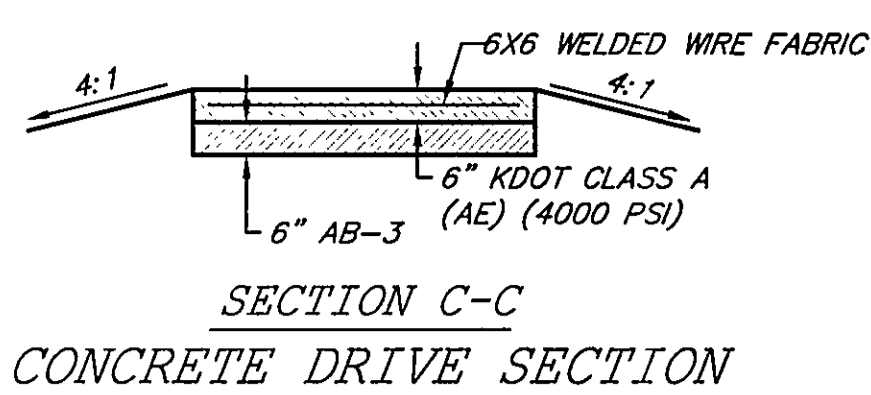
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Designed:	MFS
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Approved:	
Proj. No.:	2004.020
Sheet No.:	



SECTION A-A
ASPHALT DRIVE SECTION

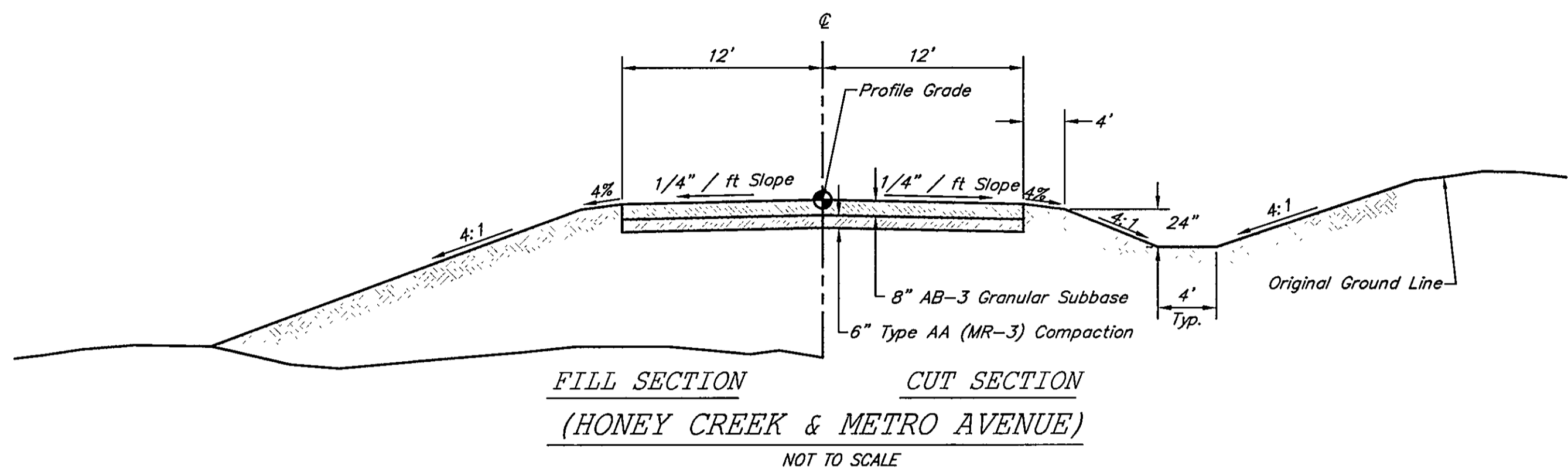


SECTION B-B
GRAVEL DRIVE SECTION

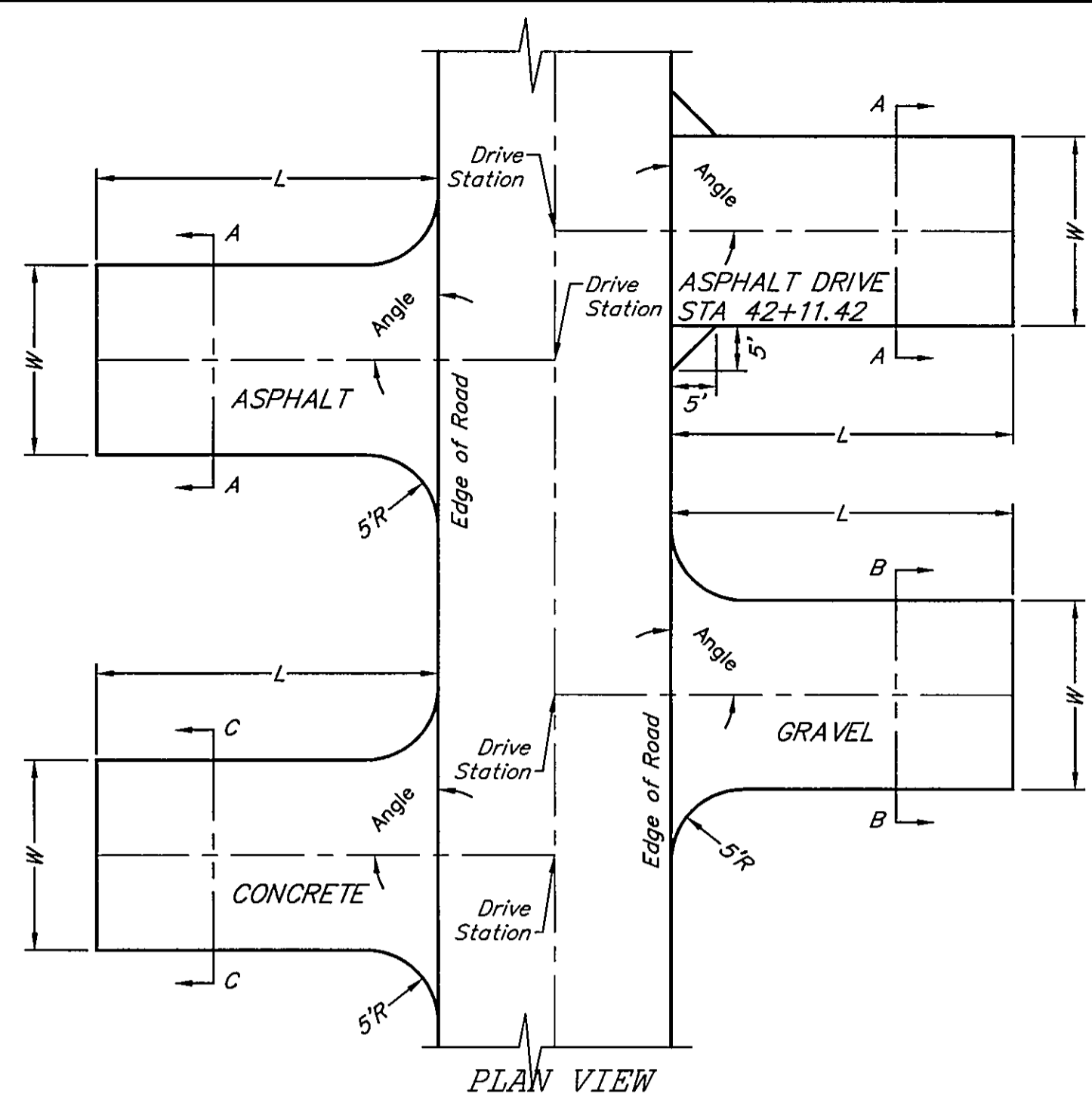


SECTION C-C
CONCRETE DRIVE SECTION

TYPICAL DRIVEWAY SECTION
NOT TO SCALE



FILL SECTION CUT SECTION
(HONEY CREEK & METRO AVENUE)
NOT TO SCALE

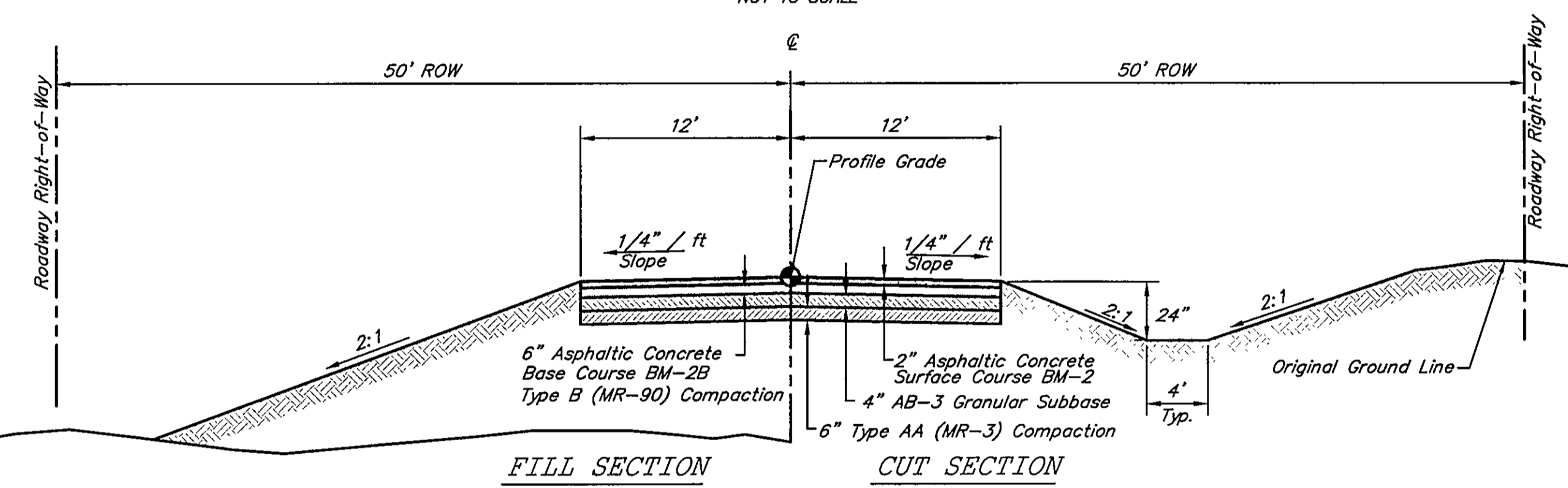


PLAN VIEW

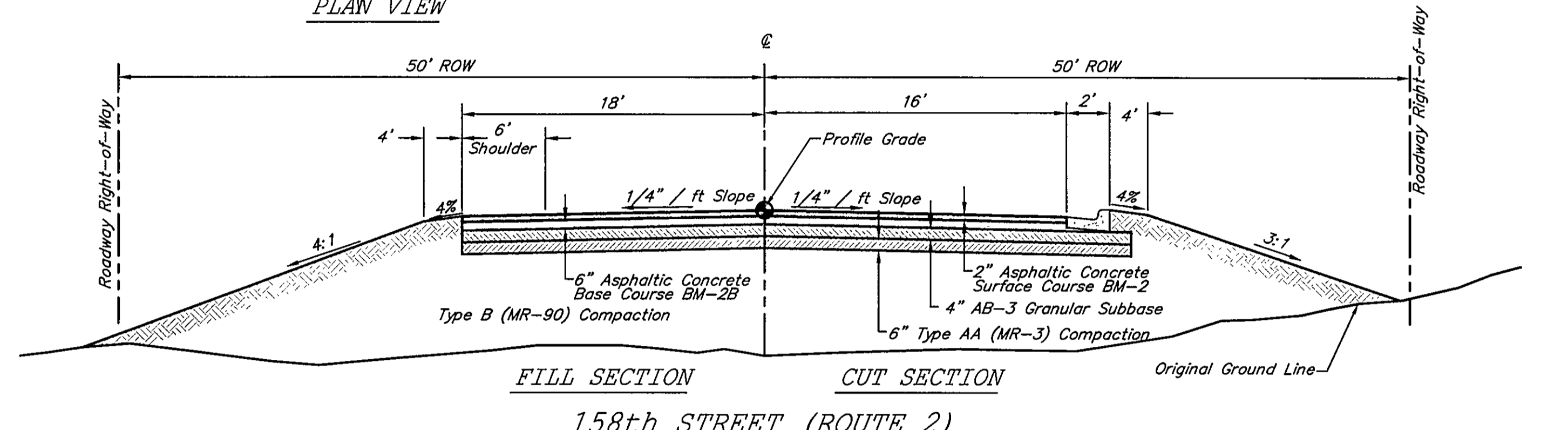
SUMMARY OF DRIVEWAY ENTRANCES

Station	Side	L (ft)	W (ft)	Type	Angle (degrees)	Drive Area (sq. ft.)	6\"/>		
14+50.00	RT	41.1	36.0	Asphalt	90	1198	133	133	
14+67.03	LT	59.0	17.5	Asphalt	90	1046		116	116
18+35.31	LT	17.0	20.0	Asphalt	90	351		39	39
18+53.79	RT	16.5	12.0	Asphalt	90	209		23	23
21+99.04	LT	34.0	13.8	Asphalt	90	467		52	52
27+04.10	LT	42.0	28.5	Asphalt	90	1207		134	134
30+21.87	LT	27.0	16.0	Asphalt	81	443		49	49
34+24.14	RT	32.0	11.8	Asphalt	90	388		43	43
36+65.34	RT	48.9	16.3	Field Ent.	90	797			
42+11.42	RT	13.0	14.9	Asphalt	90	204		23	23
44+52.63	LT	23.8	12.0	Gravel	90	296			
43+23.73	LT	32.0	21.5	Asphalt	90	699		78	78
48+39.39	RT	30.4	17.7	Asphalt	81	548		61	61
47+77.11	LT	72.0	14.5	Field Ent.	90	1044			
49+57.56	RT	22.6	15.6	Asphalt	90	363		40	40
51+77.93	RT	32.4	22.3	Asphalt	90	735		82	82
53+32.24	LT	48.0	10.0	Asphalt	90	490		54	54
54+99.86	LT	43.5	12.0	Asphalt	90	532		59	59
55+42.81	RT	41.8	20.0	Asphalt	90	847		94	94
57+69.22	RT	25.2	11.2	Asphalt	90	293		33	33
59+86.59	RT	31.0	23.0	Asphalt	90	723		80	80
61+51.89	RT	33.0	55.8	Asphalt	90	8433		937	937
67+12.11	LT	42.0	10.0	Gravel	58	441			49
70+24.75	LT	32.9	10.0	Gravel	115	345			38
74+51.10	LT	36.4	11.0	Asphalt	90	411		46	46
76+13.03	RT	46.3	18.4	Field Ent.	90	852			
78+55.13	LT	35.5	10.0	Asphalt	90	431		48	48
80+52.02	LT	37.0	10.0	Asphalt	90	382		42	42
85+00.86	RT	26.2	13.2	Asphalt	90	357		40	40
90+53.57	LT	27.0	21.3	Gravel	90	586			65
92+58.39	RT	57.4	20.0	Asphalt	90	1727		192	192
94+00.86	LT	27.5	18.0	Gravel	90	450			
94+53.74	RT	39.9	13.5	Asphalt	90	549		61	61
94+70.34	RT	50.8	10.0	Gravel	90	665			74
105+86.43	LT	30.0	22.0	Asphalt	90	2104		234	234
108+82.04	RT	20.0	15.8	Asphalt	90	327		36	36
108+81.91	RT	32.7	10.0	Asphalt	129	352		39	39

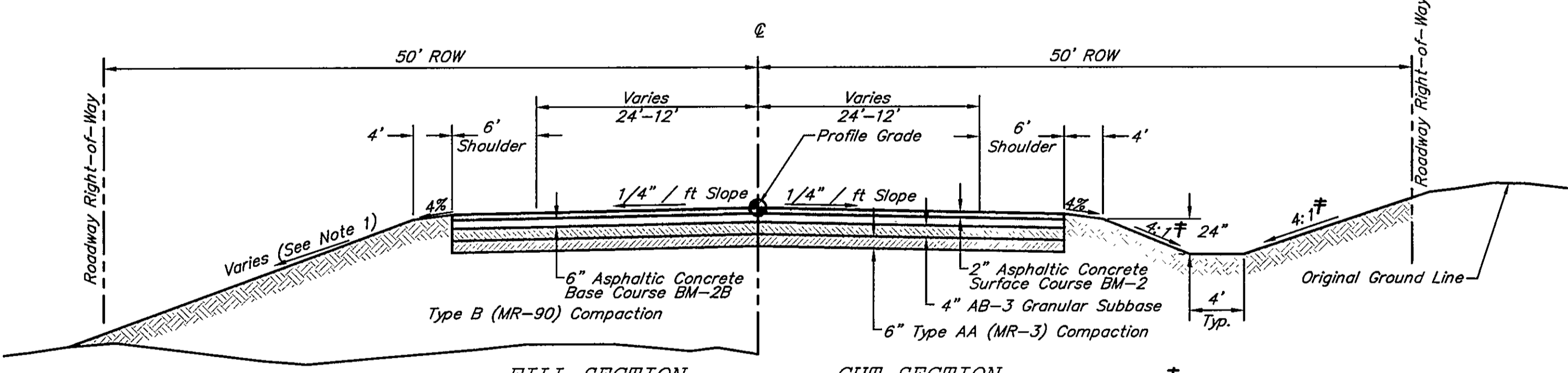
Note: Driveway at Sta. 61+51.89 includes the reconstruction of the driveway along Metro at Sta. 20+61.50



FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 96+10 - STA. 103+00)
NOT TO SCALE



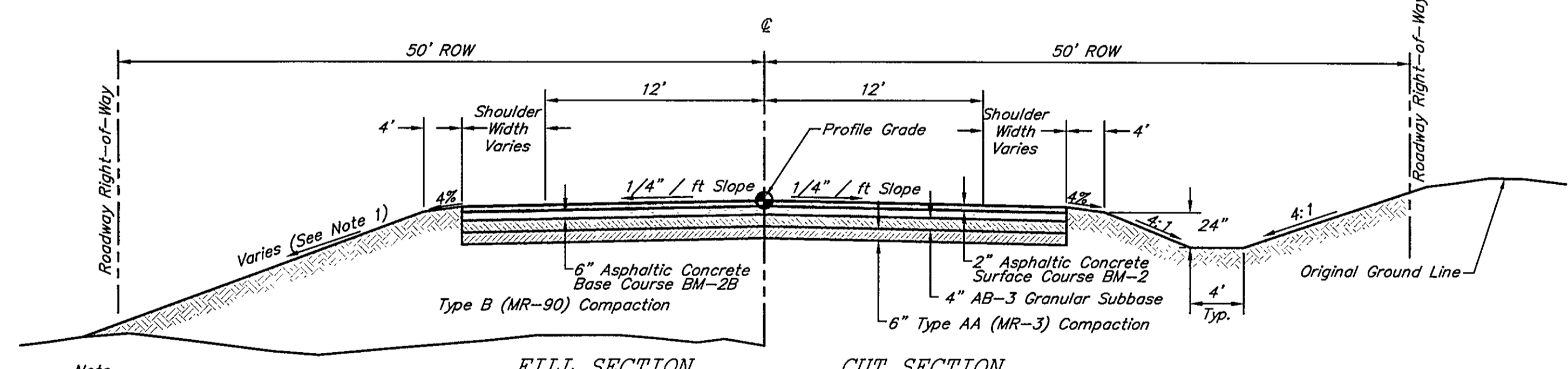
FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 36+75 - STA. 45+50)
NOT TO SCALE



Note
Sta. 92+90 - 95+50 4:1 Foreslope
Sta. 95+50 - 98+10 2:1 Foreslope
Sta. 103+00 - 104+50 4:1 Foreslope

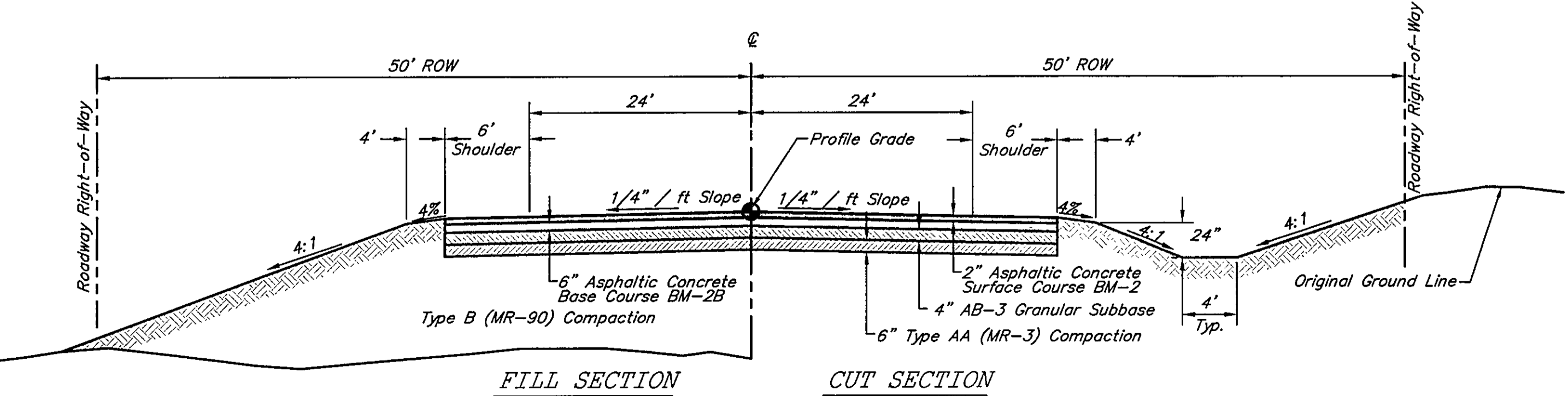
FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 13+30 - STA. 15+10)
NOT TO SCALE

† FORESLOPE AND BACKSLOPE SHALL BE 3:1 AT STA. 14+75

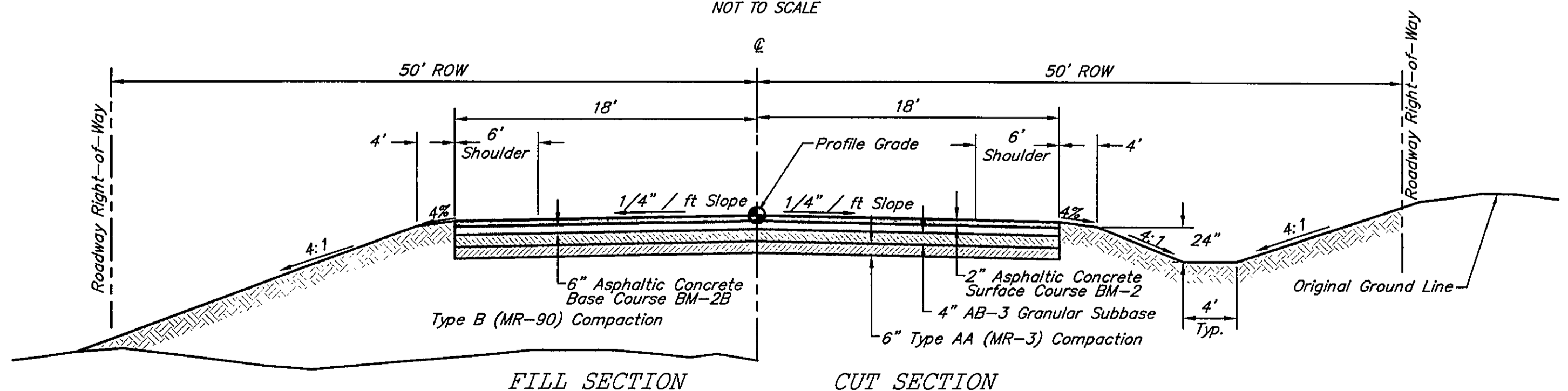


Note
Sta. 92+90 - 95+50 4:1 Foreslope
Sta. 95+50 - 96+10 2:1 Foreslope
Sta. 103+00 - 104+50 4:1 Foreslope

FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 92+90 - STA. 96+10)
(STA. 103+00 - STA. 104+50)
NOT TO SCALE



FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 10+00 - STA. 13+30)
NOT TO SCALE



FILL SECTION CUT SECTION
158th STREET (ROUTE 2)
(STA. 15+10 - STA. 36+75)
(STA. 45+50 - 92+90)
(STA. 104+50 - 110+50)
NOT TO SCALE

Drawing Path: L:\Cloud Projects\Dieline\2004\0204\0204.dwg Plotted at Dec 18, 2006 10:55am

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Civil Engineering & Land Surveying
1200 W. 151st St. Suite 200 Olathe, KS 66061
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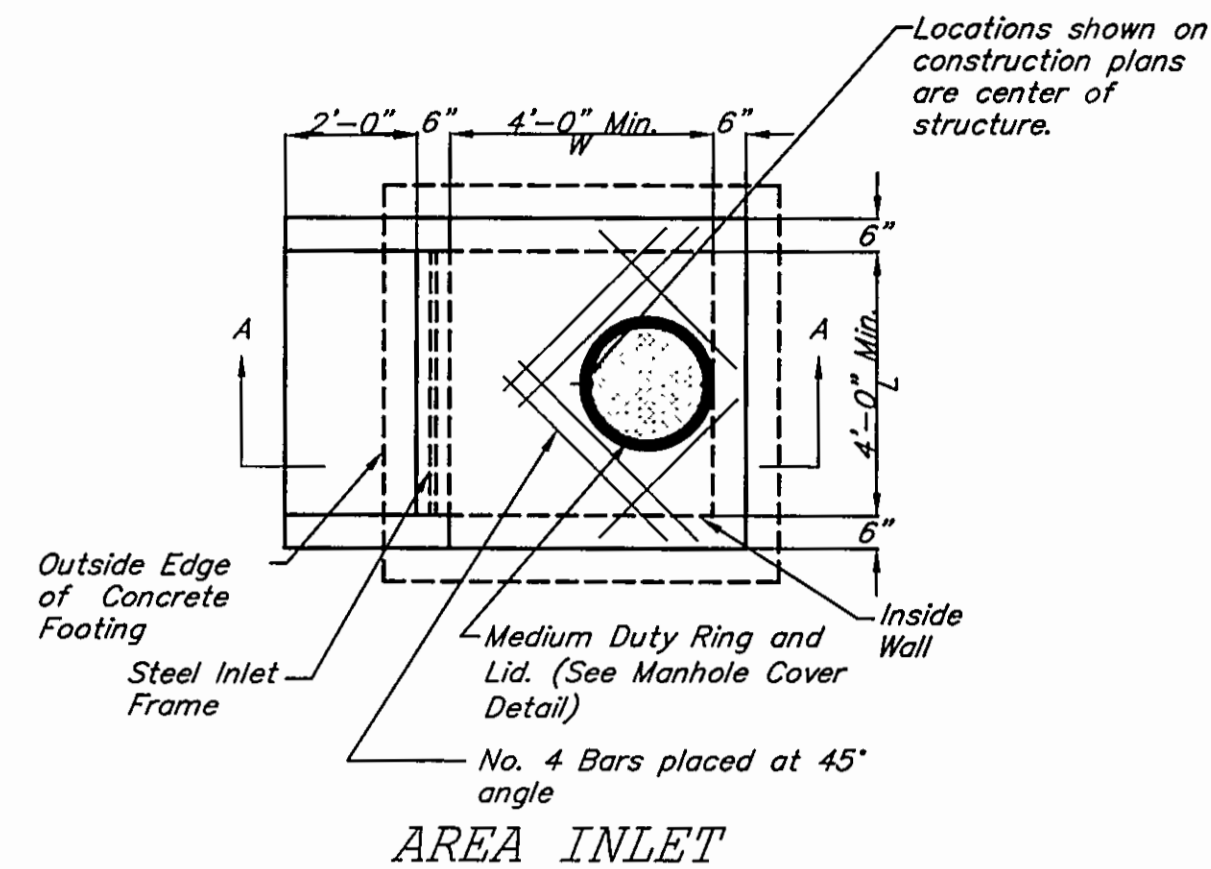
No.	Date	Revisions	BY	APP.

**COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
STREET DETAILS**

Date: 9/16/04
Designed: MFS
Drawn: PMH
Checked: CJF
Approved: _____
Proj. No. 2004.020
Sheet No. 19

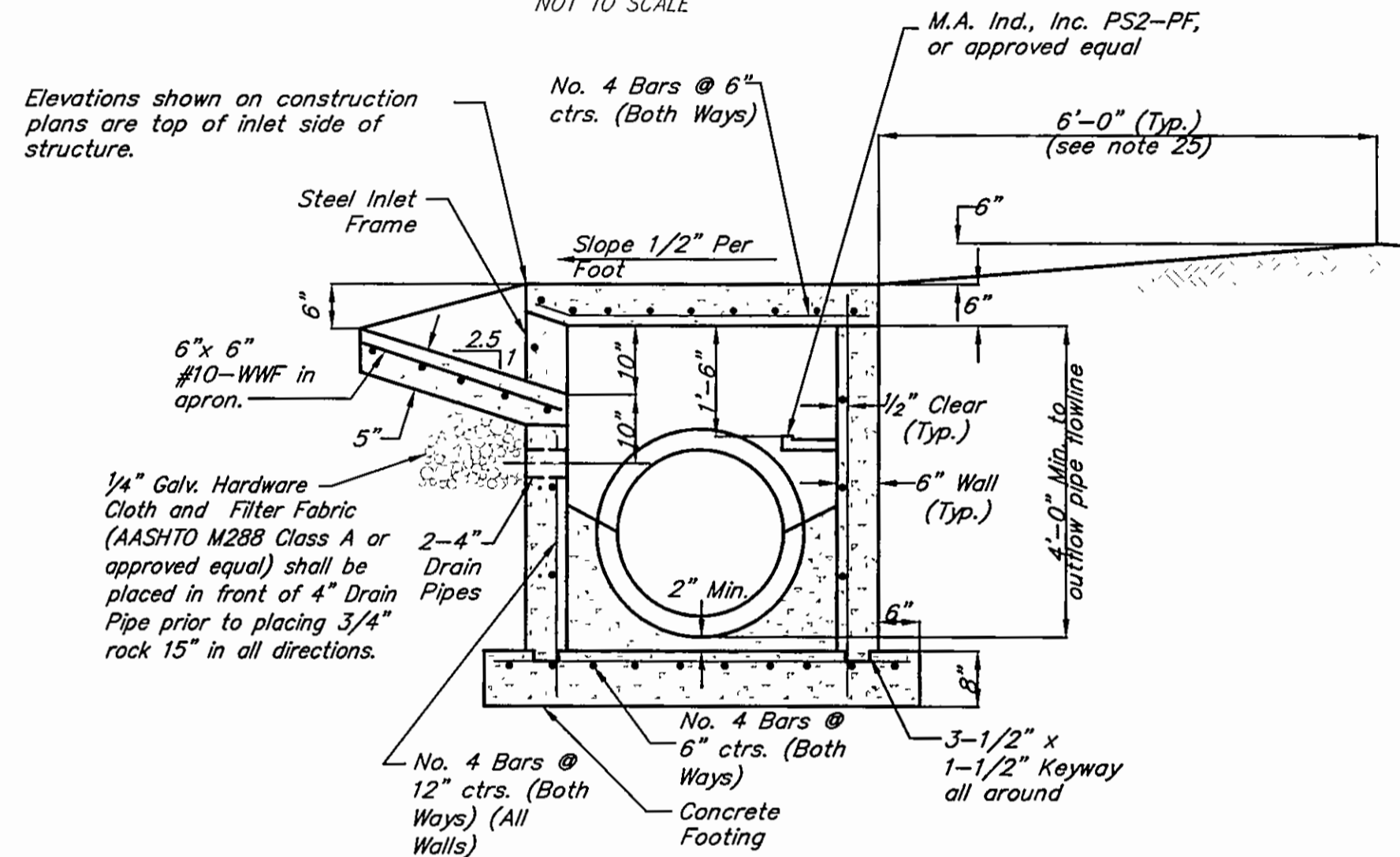
Inlet Notes

- Use KDOT Standard Class "A" Concrete (AE) throughout.
- The first dimension listed in the construction notes is the "L" dimension. The second dimension is the "W" dimension.
- Floor of inlet shall be shaped with non-reinforced Class "A" Concrete (AE) invert to provide smooth flow.
- Steel inlet frame spacers shall be placed at equal spacings not to exceed 4'-0".
- Cast iron steps to be Clay & Bailey 2102 or approved equal. Steel core, plastic coated steps may be used (M.A. Ind., Inc. No. PS2-PF, or approved equal). Steps shall be spaced at 1'-4" O.C. vertically. The distance from the last step to the top of concrete invert should be a maximum of 24".
- Bevel all exposed edges with 3/4" triangular molding.
- On-grade inlets shall conform to the street grade and sump inlets shall be level.
- Type A and Type B Joints shall be installed in accordance with curb and gutter joint details.
- Reinforcing steel shall be Grade 60 as per ASTM A615, and shall be bent cold.
- All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise.
- All lap splices not shown shall be a minimum of 40 bar diameters in length.
- All concrete construction shall meet the applicable requirements of Standard Specifications for State Road and Bridge Construction, Kansas Department of Transportation, latest edition.
- All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
- The bottom slab shall be at least 24 hours old before placing sidewall concrete. All sidewall forms shall remain in place a minimum of 24 hours after sidewalls are poured. Following removal, concrete surfaces shall be immediately treated with membrane curing compound.
- All curb inlet tops are to be placed after final curb string line has been approved by the Engineer and prior to curb construction.
- HDPE connections to precast structures shall have a minimum of 12" of Class A concrete around the entire pipe within 2' of the structure.
- Backfill material shall be free of rock larger than 6" in diameter.
- Manhole cover raised surface shall be cast on non-skid finish.
- Manhole cover mudring is optional.
- Manhole Ring & Lid shall be Clay & Bailey No. 2020, Deeter No. 2016, or approved equal.
- Steel Inlet Frame welds shall be performed in accordance with appropriate AWS Specifications and Procedures.
- Steel Inlet Frame welds on exposed surfaces shall be dressed so as to provide a pleasing finished appearance.
- The entire frame shall be Hot Dip Zinc Coated in accordance with ASTM A-123.
- Contractor shall provide a backstopping berm behind all area inlets. The berm shall allow water to pool to a height of 6" above top of inlet before exiting via secondary spillway.



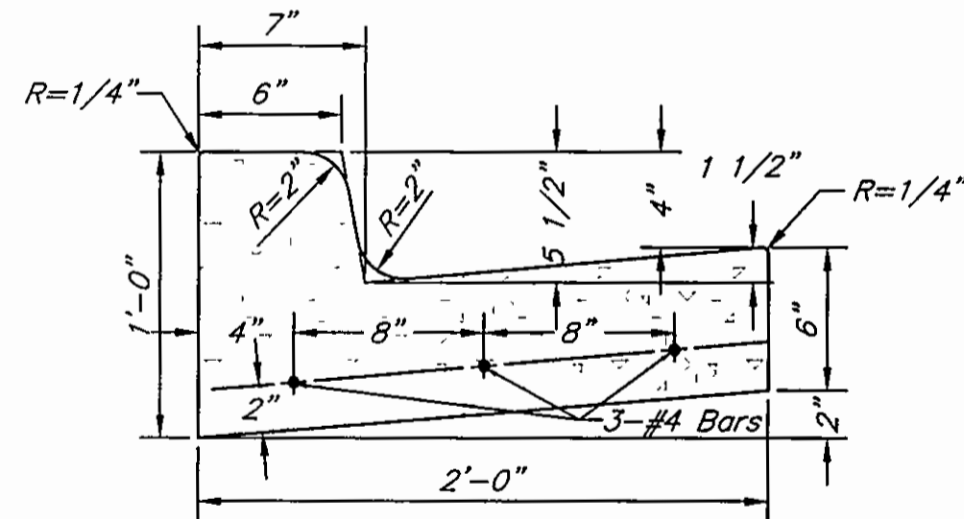
AREA INLET

NOT TO SCALE



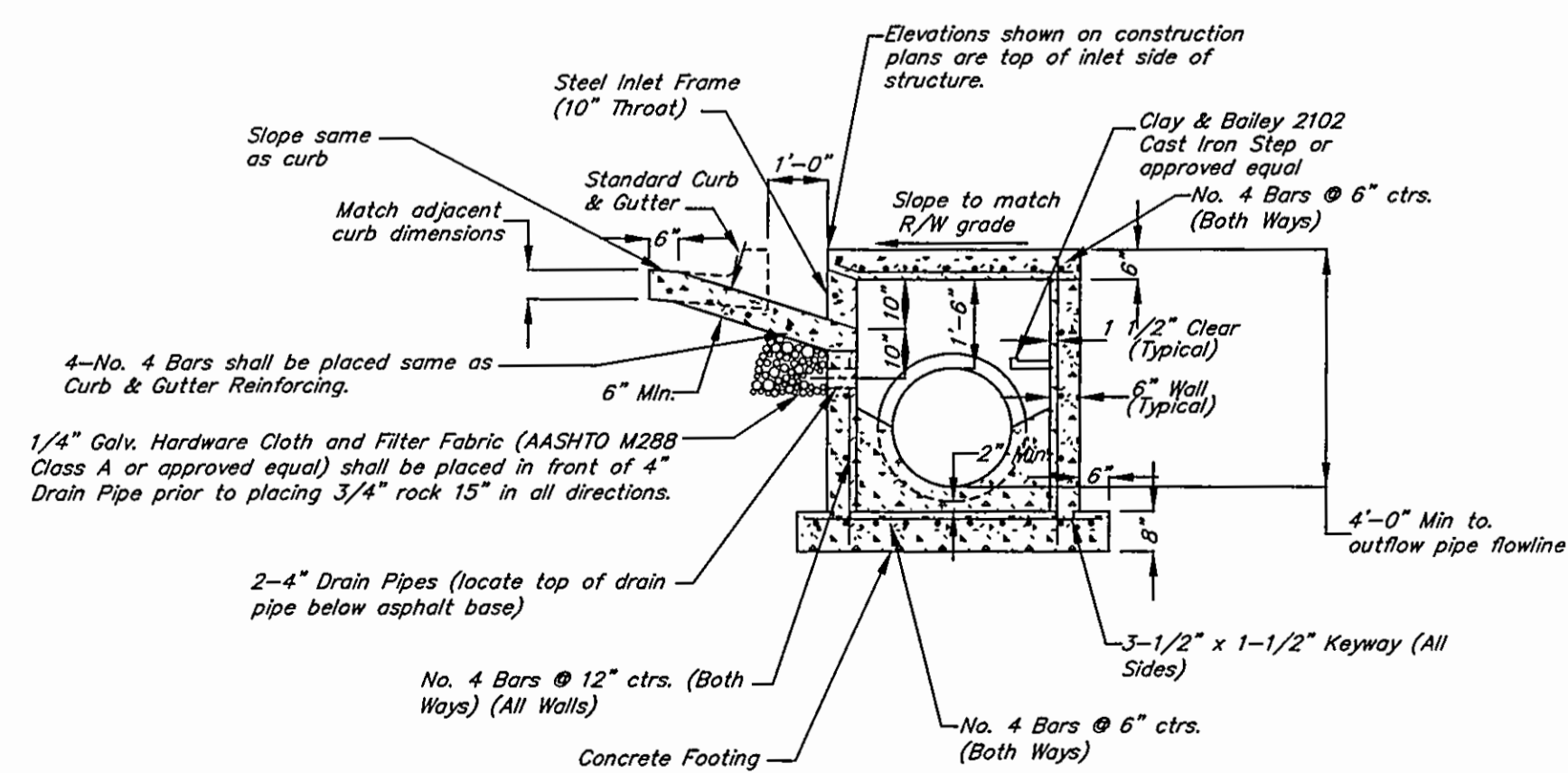
AREA INLET SECTION A-A

NOT TO SCALE



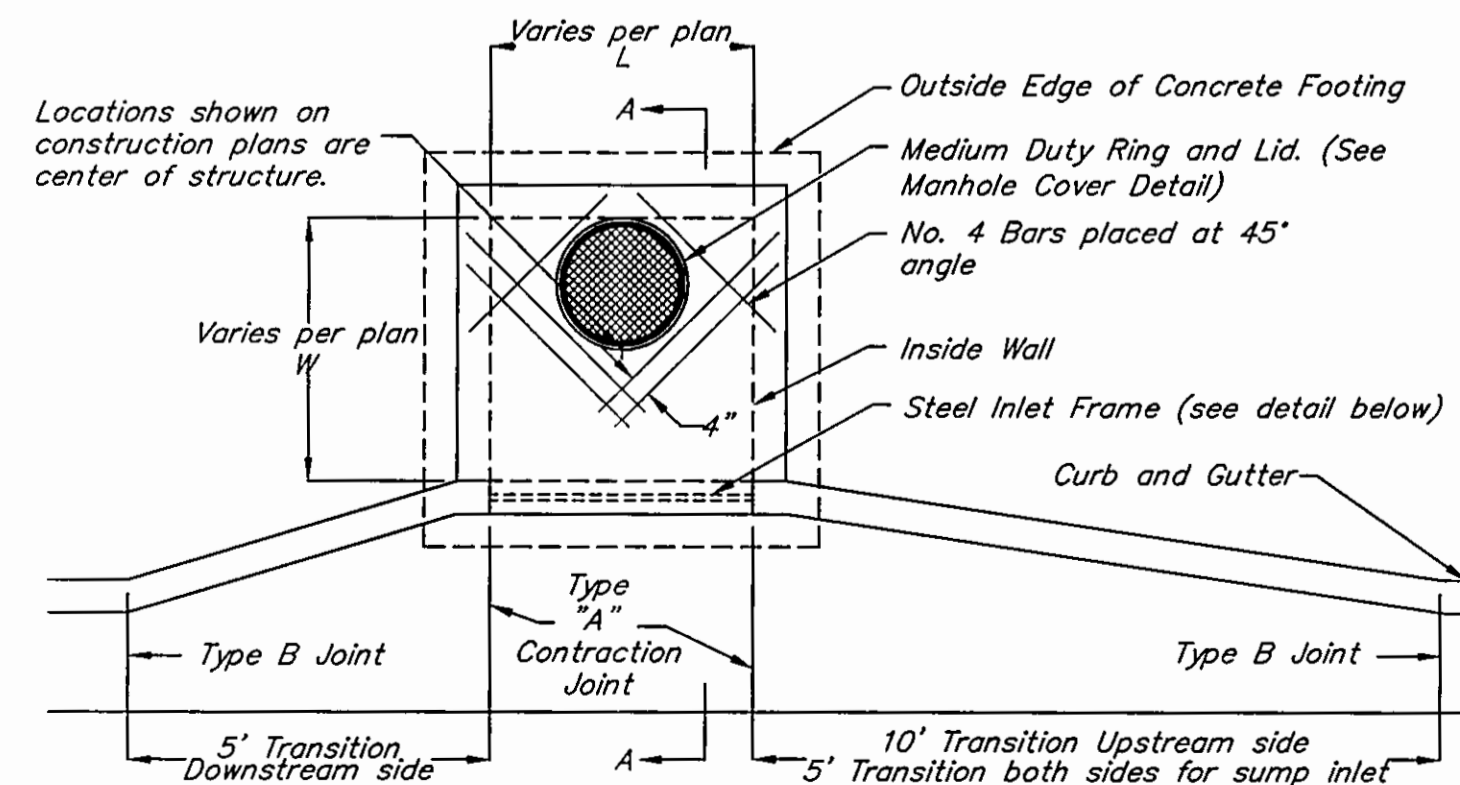
STANDARD TYPE "B" CURB

NOT TO SCALE



CURB INLET SECTION A-A

NOT TO SCALE



CURB INLET

NOT TO SCALE

Trenching Notes

- Granular fill to be crushed stone or pea gravel with not less than 95% passing 1/2" and not less than 95% to be retained on a #8; to be placed in not more than 6" layers.
- Tamped backfill shall be finely divided job excavated material free from debris, organic material and stones, compacted to 95% maximum density as determined by AASHTO STANDARD, Method T-99. Granular fill may be substituted for all or part of tamped backfill.
- Hand-placed backfill shall be finely divided material free from debris and stone.
- Where Rigid Pipe Bedding is specified under paved areas, flowable fill may be substituted for tamped backfill.

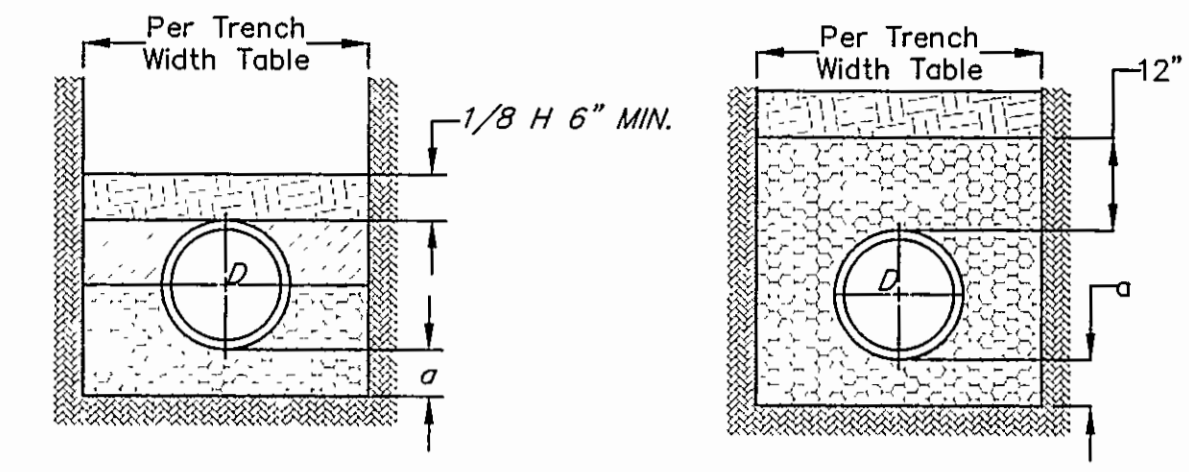
TABLE OF EMBEDMENT DEPTH BELOW PIPE AND PRECAST RCB

D	a MIN. SOIL	b MIN. ROCK
27" & SMALLER	3"	6"
30" TO 60"	4"	9"
66" & LARGER	6"	12"

TRENCH WIDTH TABLE

Pipe Size (inches)	Minimum Side Wall Clearance (inches)
12 - 30	7.5
33 - 42	9
48 - 60	12

TRENCH WIDTH TABLE



RIGID PIPE BEDDING

NOT TO SCALE

FLEXIBLE PIPE BEDDING

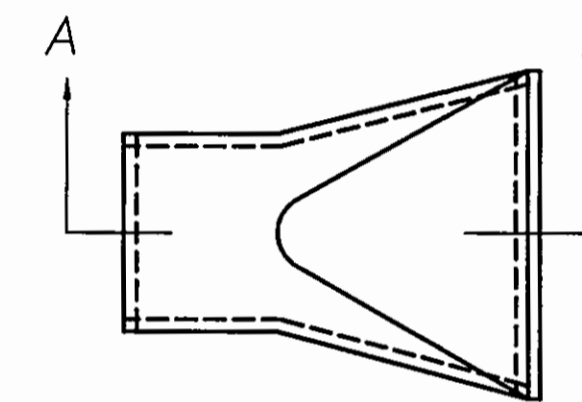
NOT TO SCALE

LEGEND

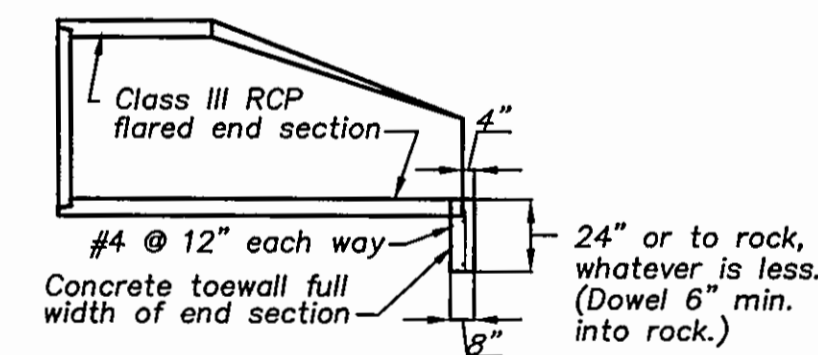
- BC - Outside Diameter of Pipe
- H - Backfill Cover above Top of Pipe
- D - Nominal Pipe Size
- a - Fill below Pipe (see table)
- Hand Placed Backfill
- Tamped Backfill
- Granular Backfill
- Concrete

STORM SEWER TRENCHING

NOT TO SCALE



PLAN VIEW



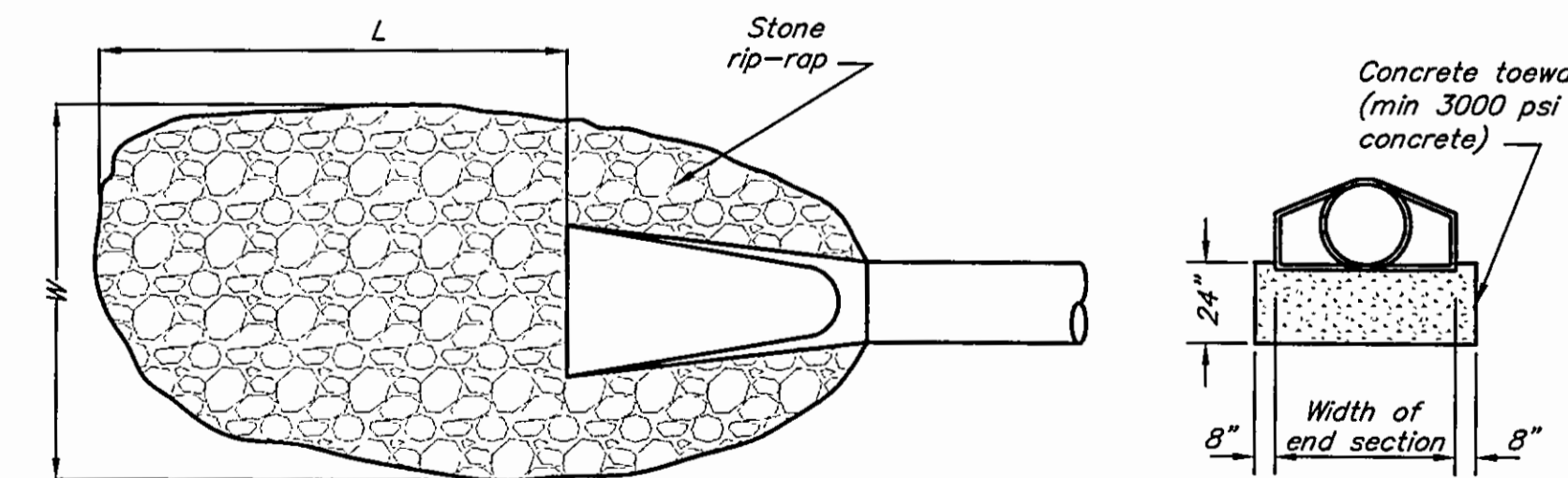
SECTION A-A

CONCRETE END SECTION

NOT TO SCALE

Concrete End Section Notes

- All concrete construction shall meet the applicable requirements of Standard Specifications for State Road and Bridge Construction, Kansas Department of Transportation, latest edition, and special provisions. Use KDOT Class "A" (AE) Concrete Throughout.
- Reinforcing steel shall be new billet, minimum Grade 40 as per ASTM A615, and shall be bent cold.
- All dimensions relative to reinforcing steel are to centerline of bars. 2" clearance shall be provided throughout unless noted otherwise. Tolerance of +/- 1/8" shall be permitted.
- All lap splices not shown shall be a minimum of 40 bar diameters in length.
- All dowels shall be accurately placed and securely tied in place prior to placement of bottom slab concrete. Sticking of dowels into fresh or partially hardened concrete will not be acceptable.
- All reinforcing steel shall be supported on fabricated steel bar supports @ 3'-0" maximum spacing.
- Do not scale these drawings for dimensions or clearances. Any questions regarding dimensions shall be brought to the attention of the Engineer prior to construction.



PLAN

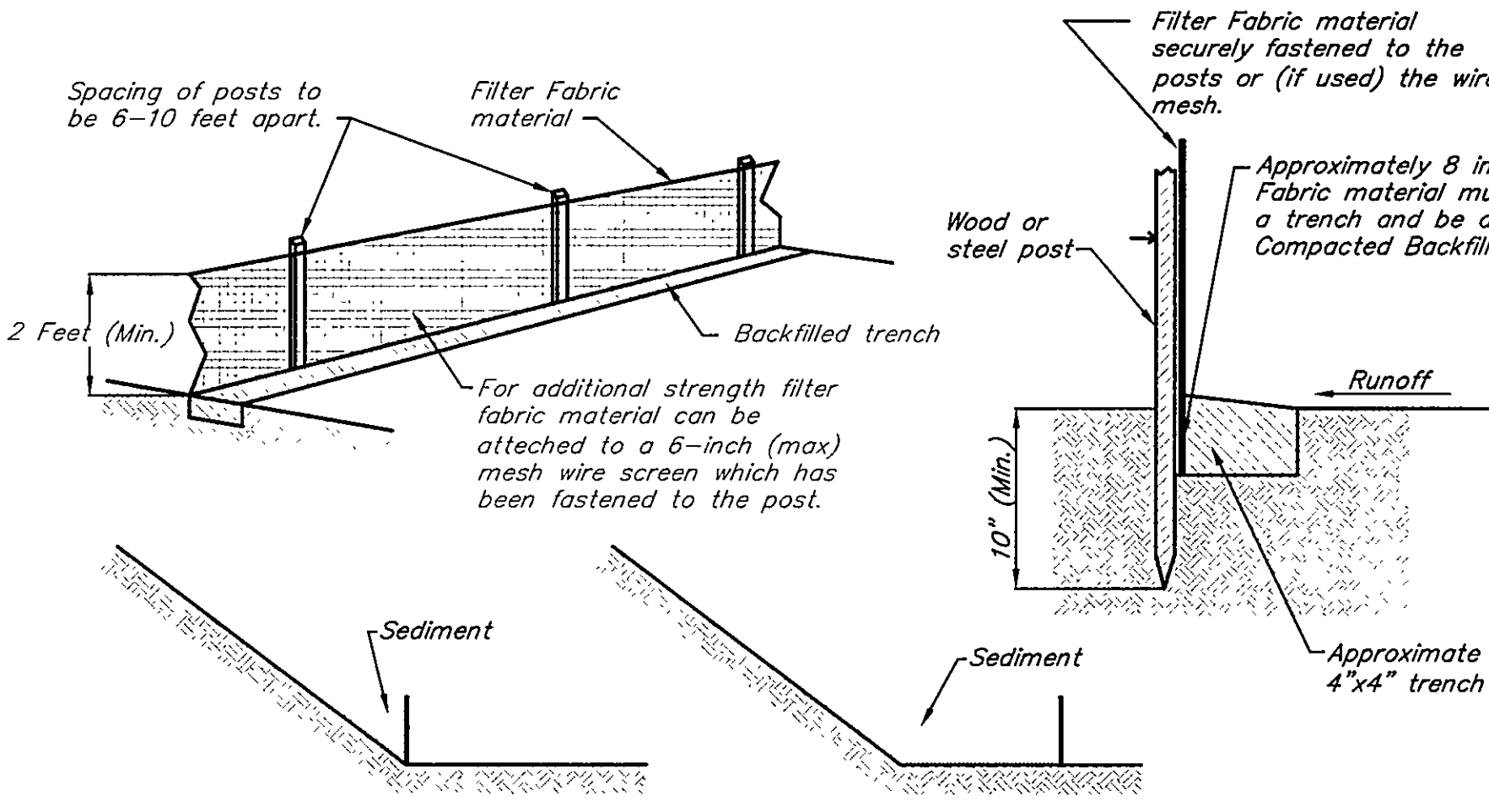
SECTION

RIP-RAP DETAIL

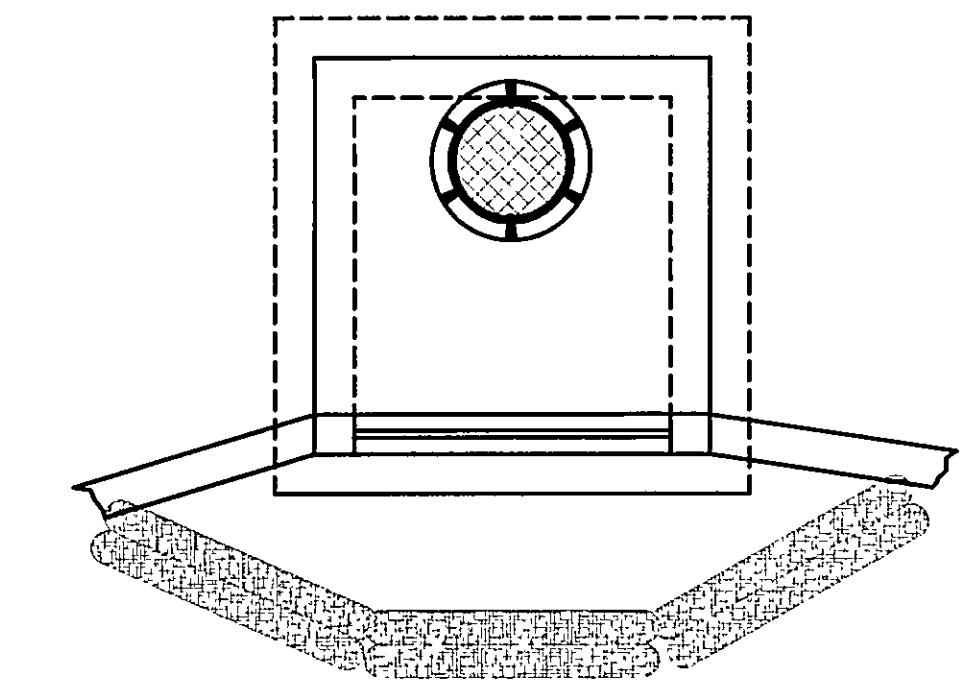
N.T.S.



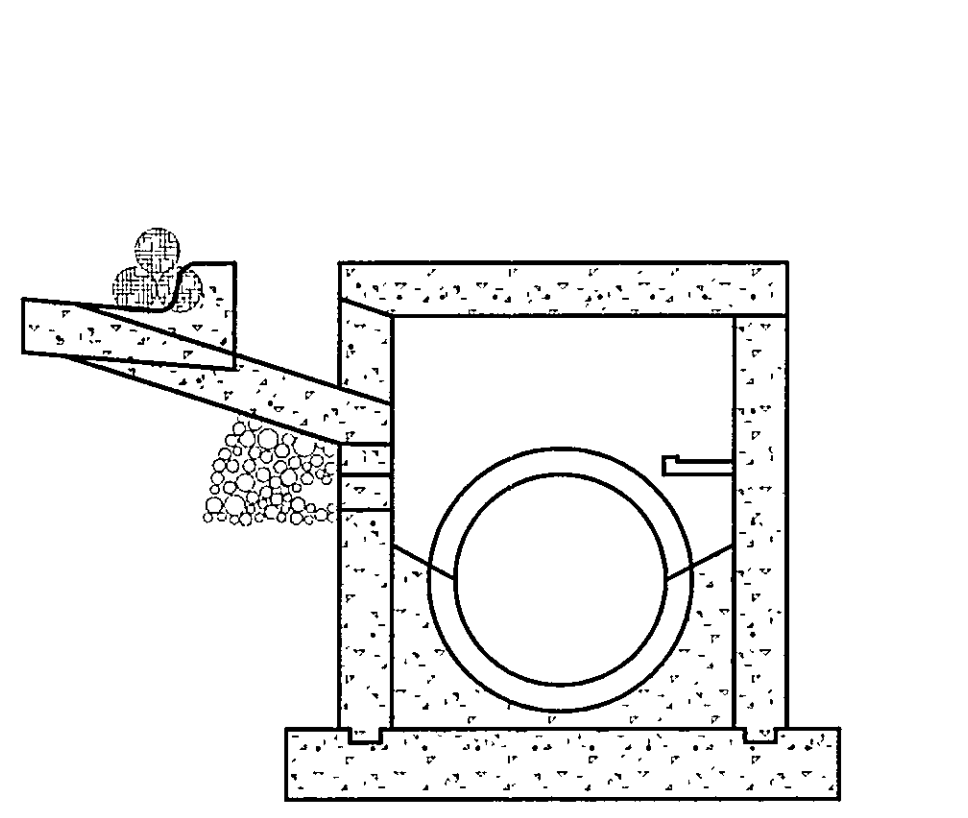
NO.	DATE	BY	REVISION
1	12/01/04	MDH	PER COUNTY COMMENTS



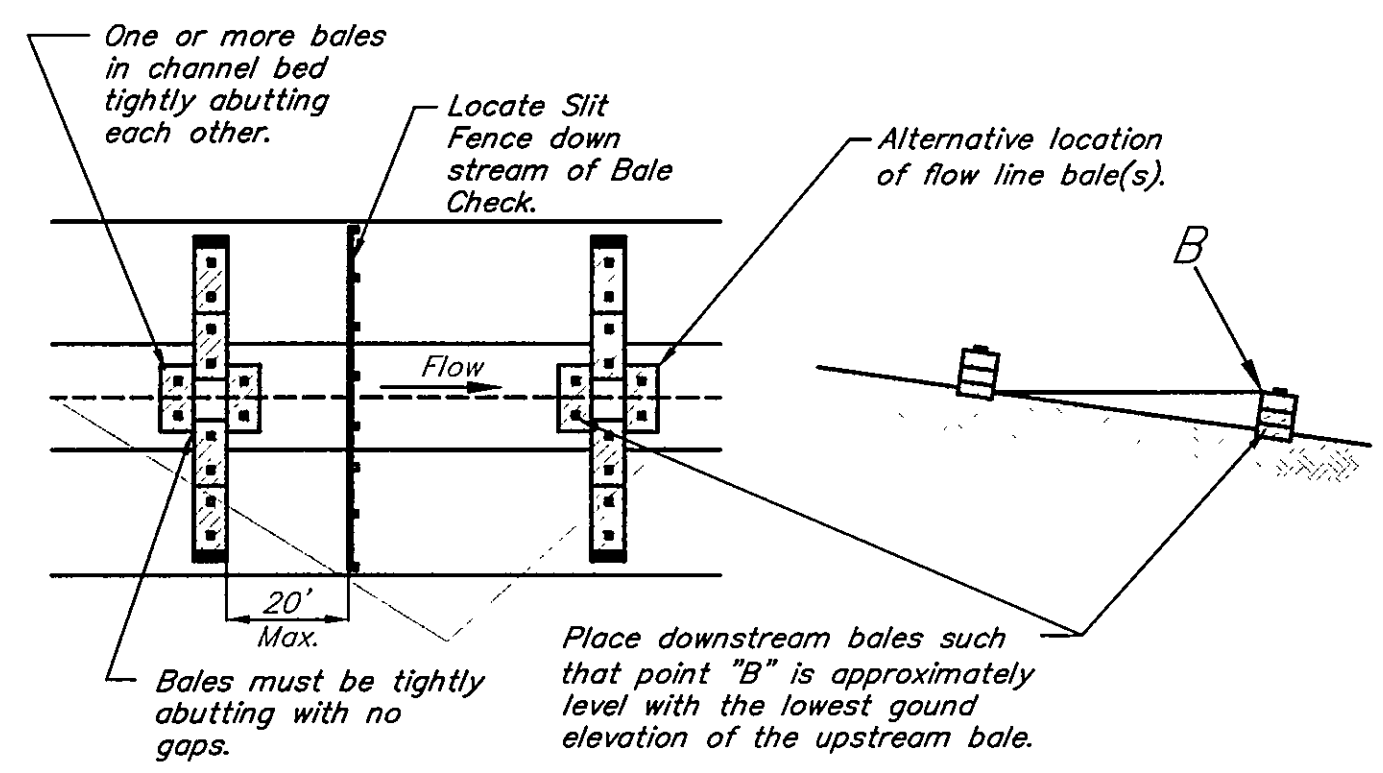
SILT FENCE DETAILS
N.T.S.



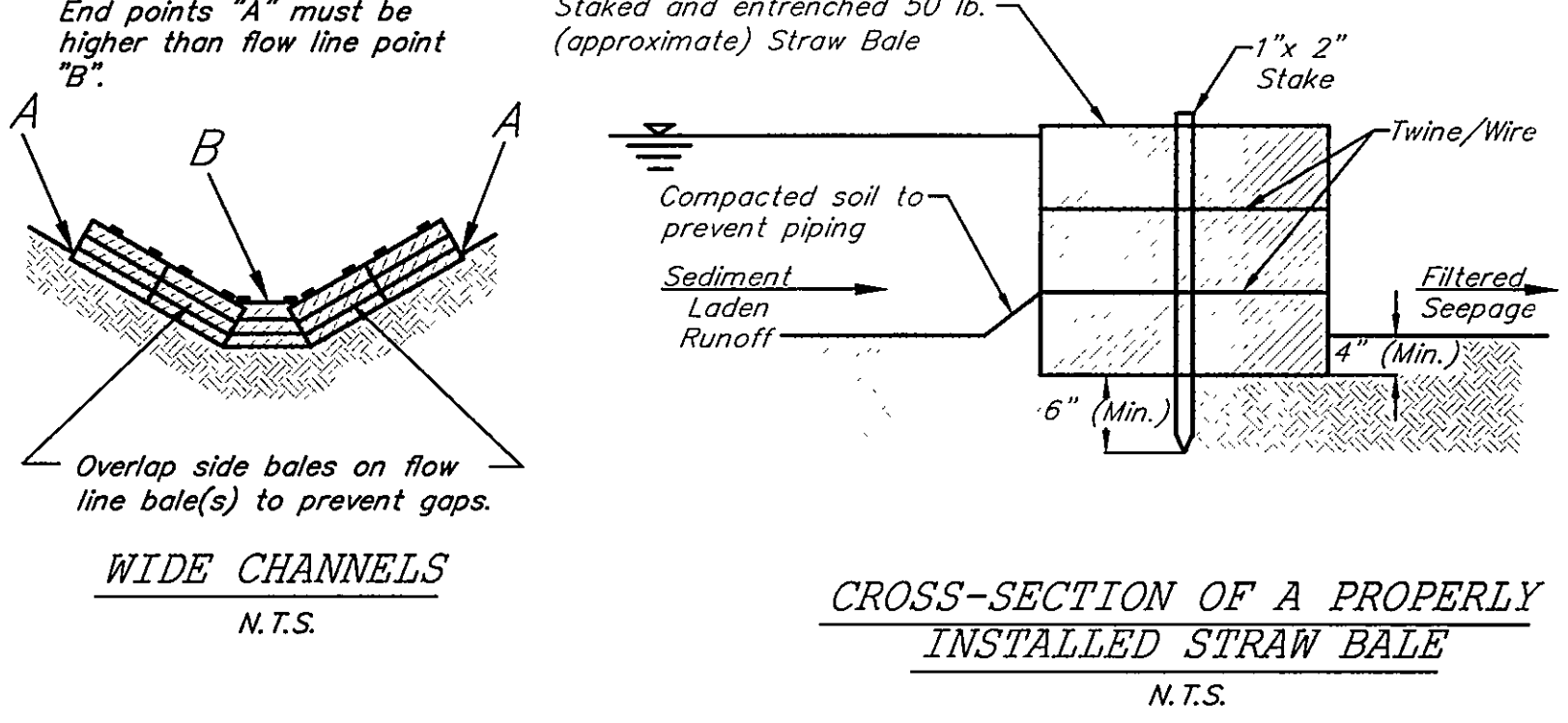
INLET SOIL FILTER
N.T.S.



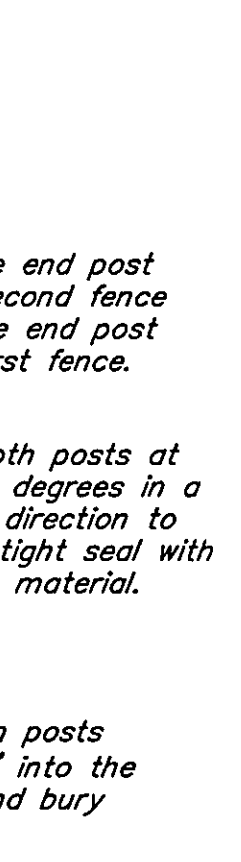
SECTION VIEW
N.T.S.



WIDE CHANNELS
N.T.S.



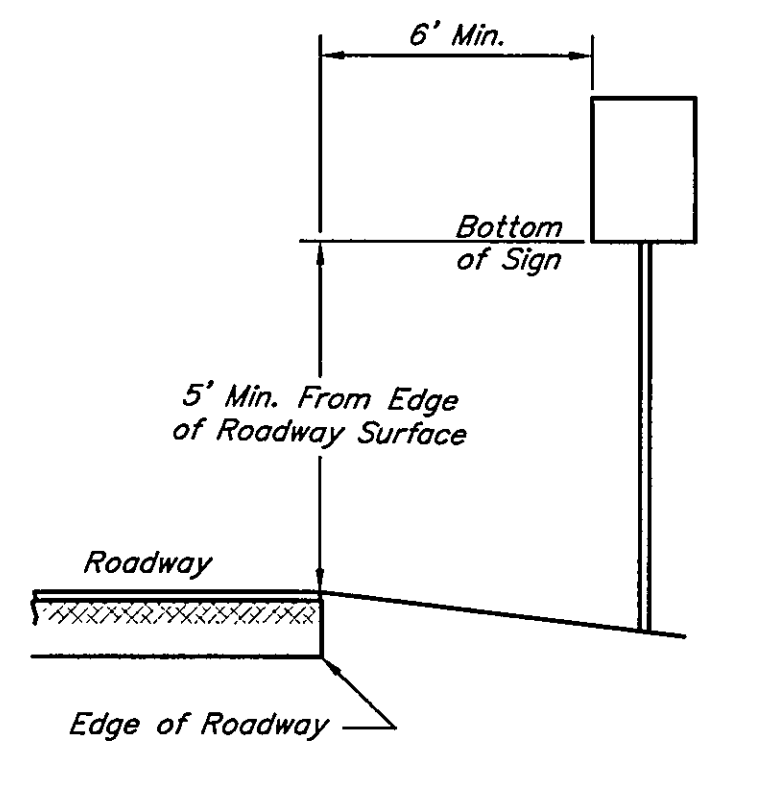
CROSS-SECTION OF A PROPERLY INSTALLED STRAW BALE
N.T.S.



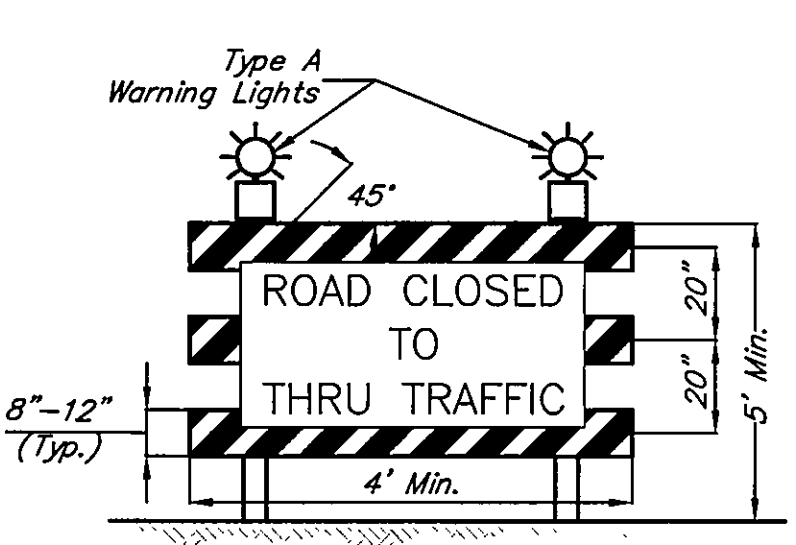
Attaching two silt fences

Height and Lateral Dimensions for Post Mounted Signs

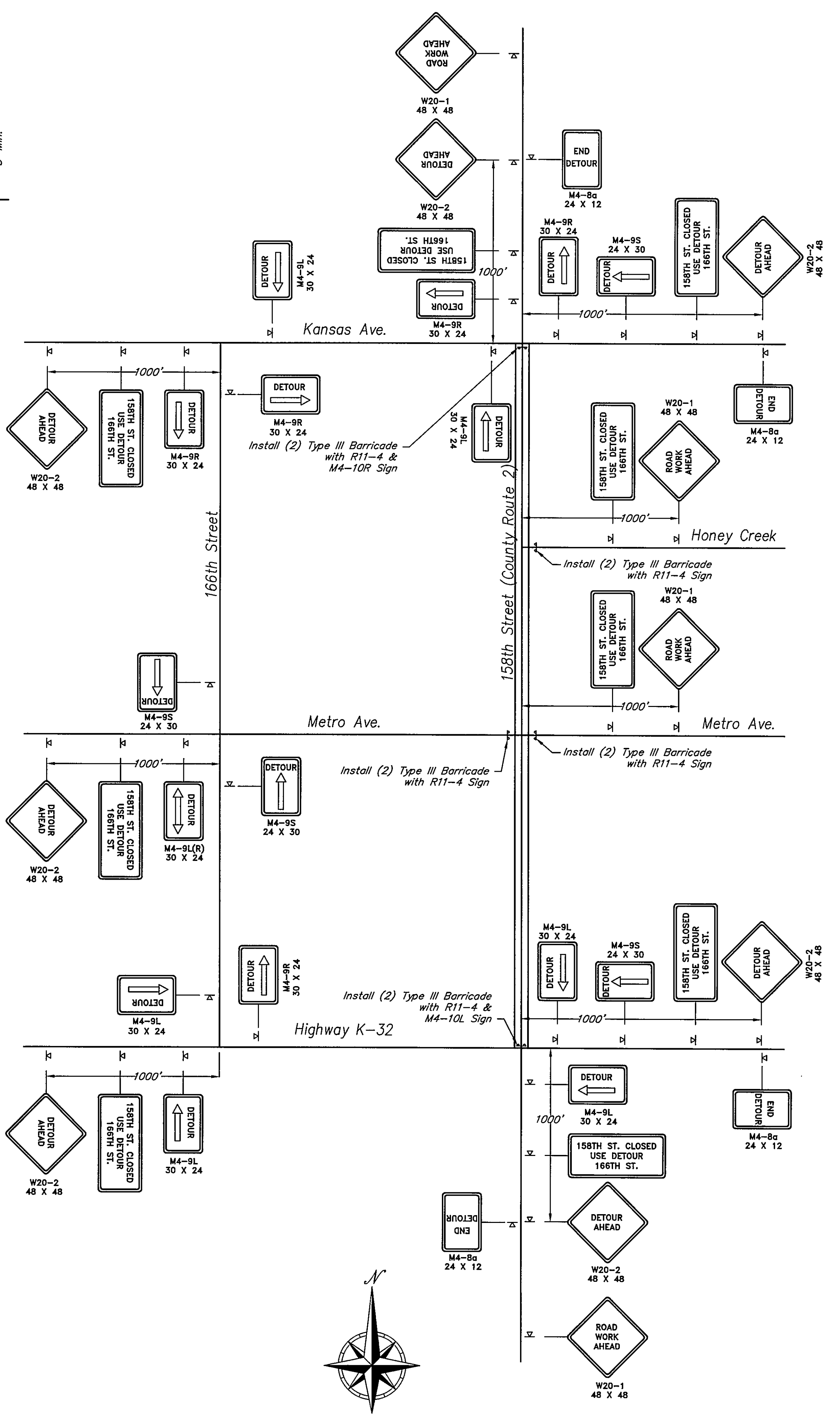
- Notes:**
- A. In Business, Commercial, and Residential Districts, the Distance Between the Bottom of the Sign and the Top of the Near Edge of the Travel Way Shall Be At Least 7'.
 - B. Large Signs Having an Area Exceeding 54 Square Feet That Are Installed on Multiple Breakaway Posts Shall be Mounted a Minimum of 7' Above the Ground.
 - C. The height to the Bottom of the Secondary Sign Mounted Below Another Sign May be 1' Less Than the Appropriate Height Specified Above.



SIGN RELOCATION DETAIL
NOT TO SCALE



**TYPE III BARRICADE
W/ R11-4 SIGN**
NOT TO SCALE



TRAFFIC CONTROL DETAIL
NOT TO SCALE

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Plotted at: Nov 10, 2005 4:46pm

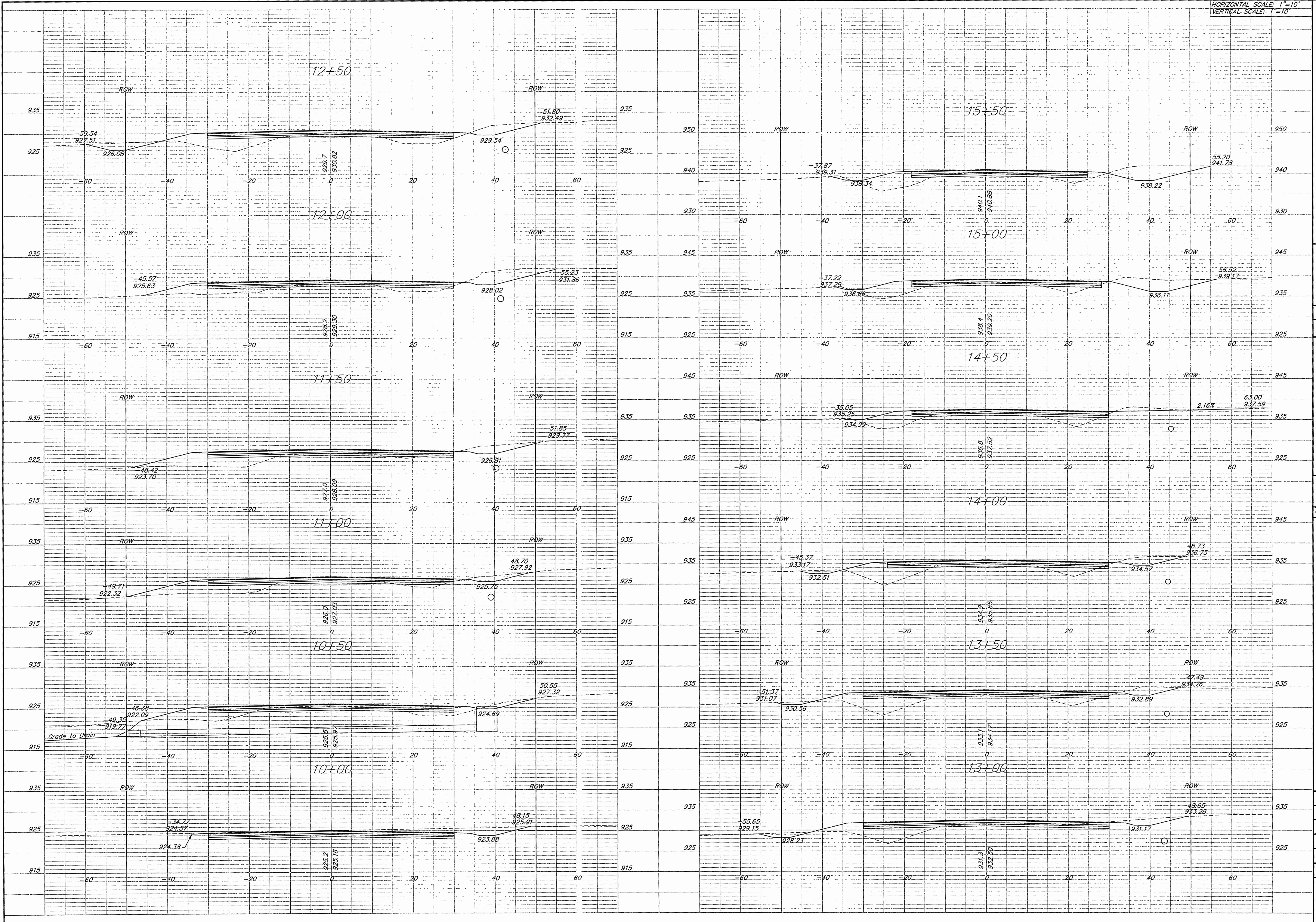
McAFEE, HENDERSON & STRICK, INC.
Civil Engineering & Land Surveying
1280 W. 151st St. Suite 200 Olathe, KS 66061
Ph: (913) 782-7144 Fax: (913) 950-9865

REV		DATE	BY
1	AS SHOWN		
2	PER COUNTY COMMENTS	12/21/04	MDH
3			
4			
5			
6			

**COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
EROSION & TRAFFIC CONTROL**


Date: 9/16/04
Designed: MFS
Drawn: MFS
Checked: MDH
Approved:
Proj. No. 2004.020
Sheet No: 21

HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'



Drawing Path: L:\Lans Projects\Dicline 2004_2004\020.dwg; Sheet: 04-020_x-sections_route-2.dwg
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 Civil Engineering & Land Surveying
 1290 W. 151st St. Suite 200 Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 390-9865

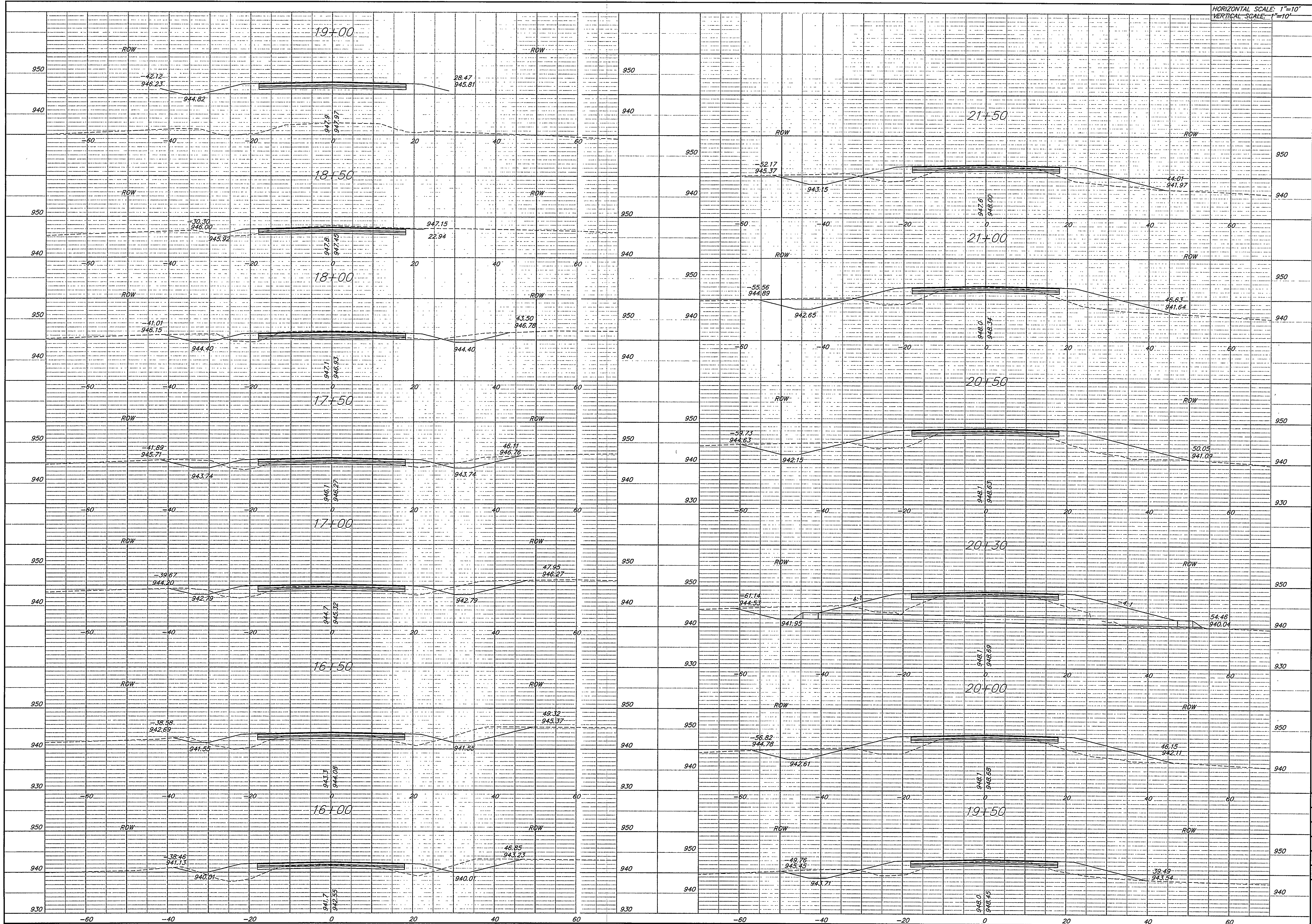


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COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
CROSS SECTIONS

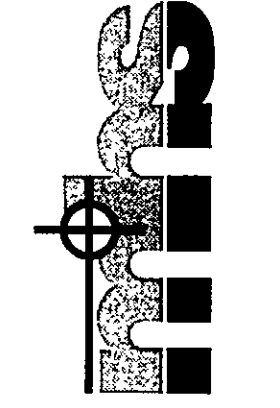
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 Drawn: BRE
 Checked: JLM
 Approved:
 Proj. No. 2004.020
 Sheet No.

Drawing Path: L:\Land Projects\04-2004\020\dwg\street\04-020_x-sections_route-2.dwg
 Plotted at: Nov 07, 2006 - 3:52pm



HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'

McAFEE, HENDERSON & STRICK, INC.
 Civil Engineering & Land Surveying
 1250 W. 151st St. Suite 200 Olathe, KS 66061
 Ph: (913) 762-7744 Fax: (913) 303-9665

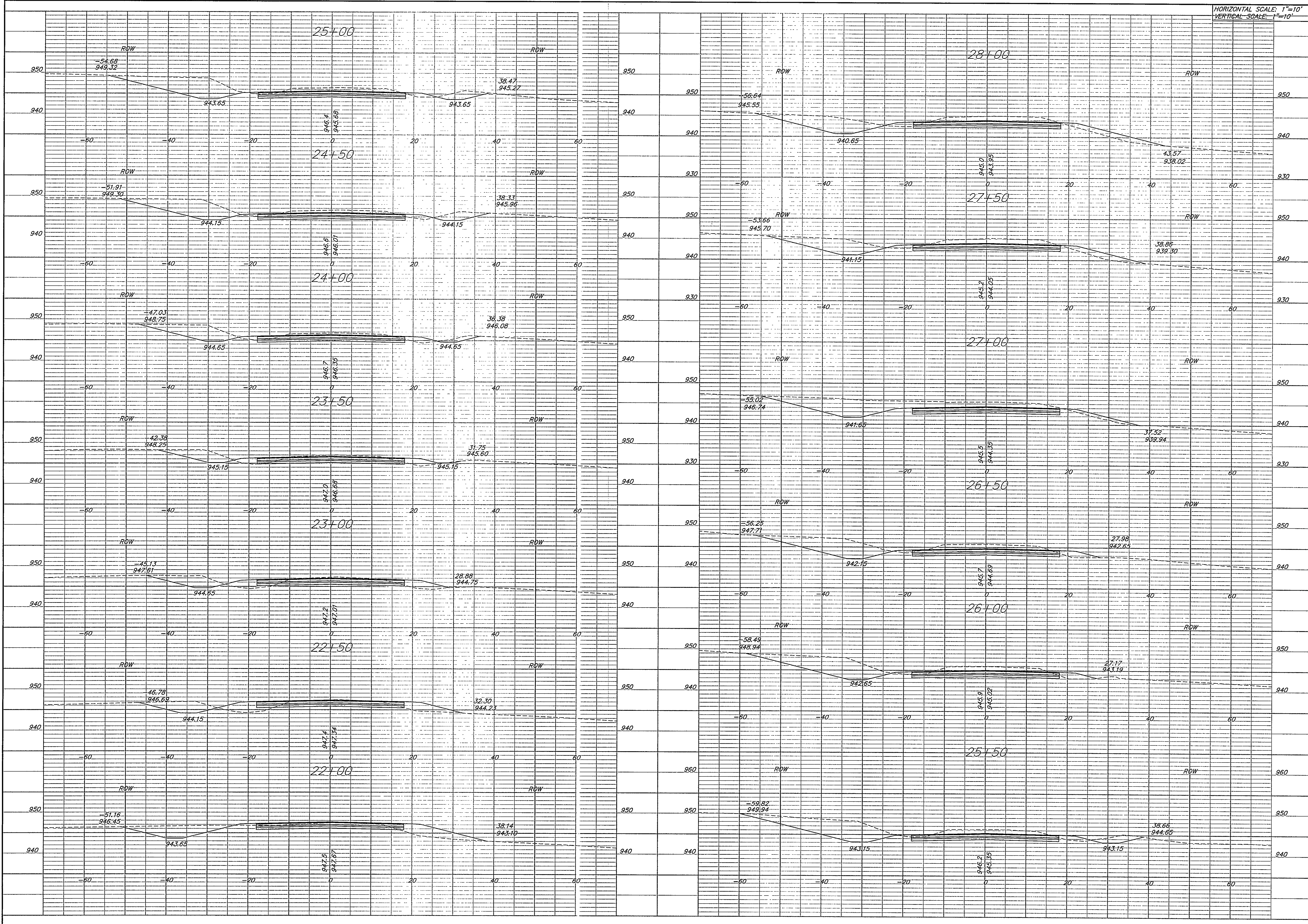


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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

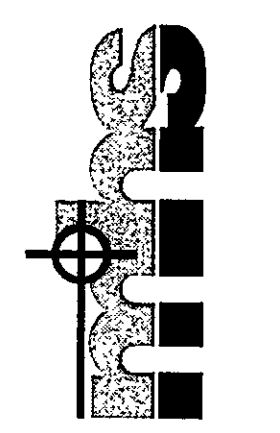
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 Approved:
 Proj. No. 2004-020
 Sheet No:

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 Plotted at: Nov 07, 2006 - 3:56pm



HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'

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 Civil Engineering & Land Surveying
 1230 W. 151st St., Suite 200, Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 390-9665

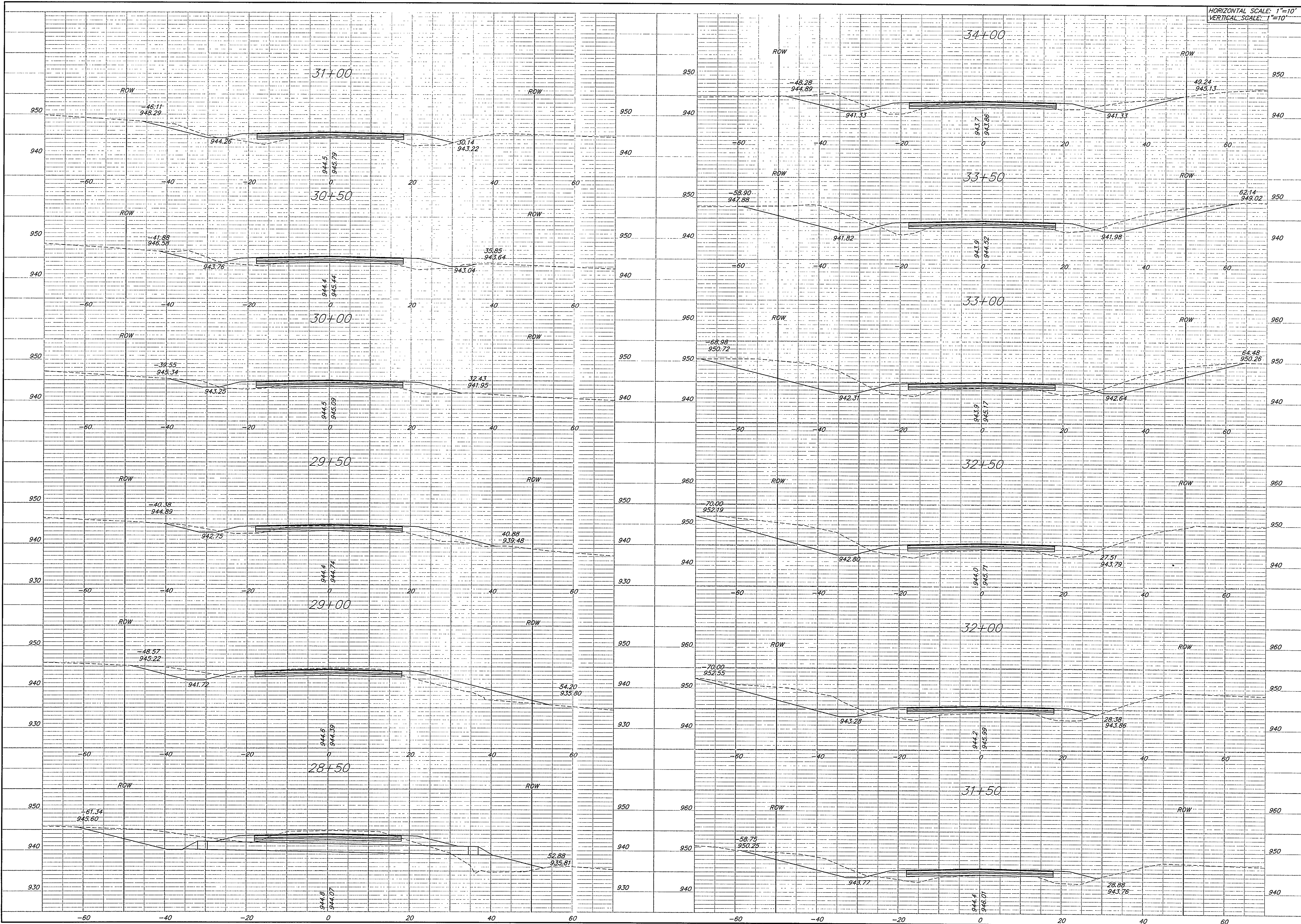


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 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

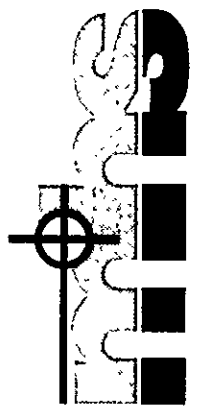
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 Drawn: BRE
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 Approved:
 Proj. No. 2004.020

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Plotted at: Nov 07, 2006 - 3:51pm



HORIZONTAL SCALE: 1"=10'
VERTICAL SCALE: 1"=10'

MCAFFEE, HENDERSON & STRICK, INC.
Civil Engineering & Land Surveying
1280 W. 15th St. Suite 200 Olathe, KS 66061
Ph: (913) 762-7744 Fax: (913) 380-9665



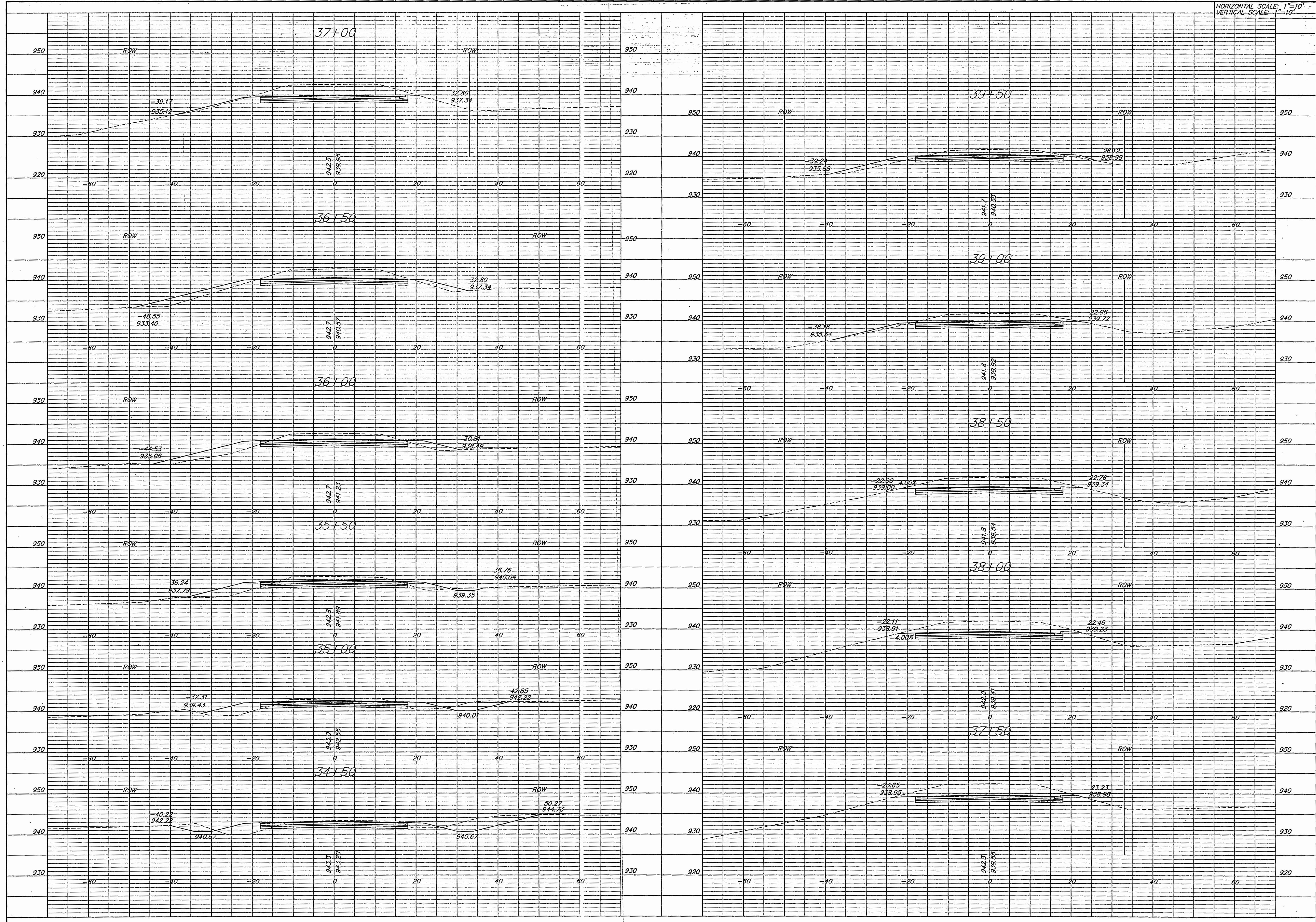
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**COUNTY ROUTE 2
LEAVENWORTH COUNTY, KANSAS
CROSS SECTIONS**

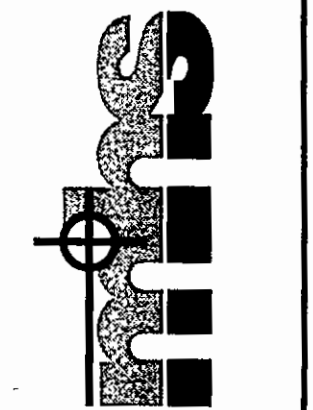
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Approved:
Proj. No. 2004.020

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HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'



McAFEE, HENDERSON & STRICK, INC.
 Civil Engineering + Land Surveying
 1280 W. 151st St. Suite 200 Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 940-9885

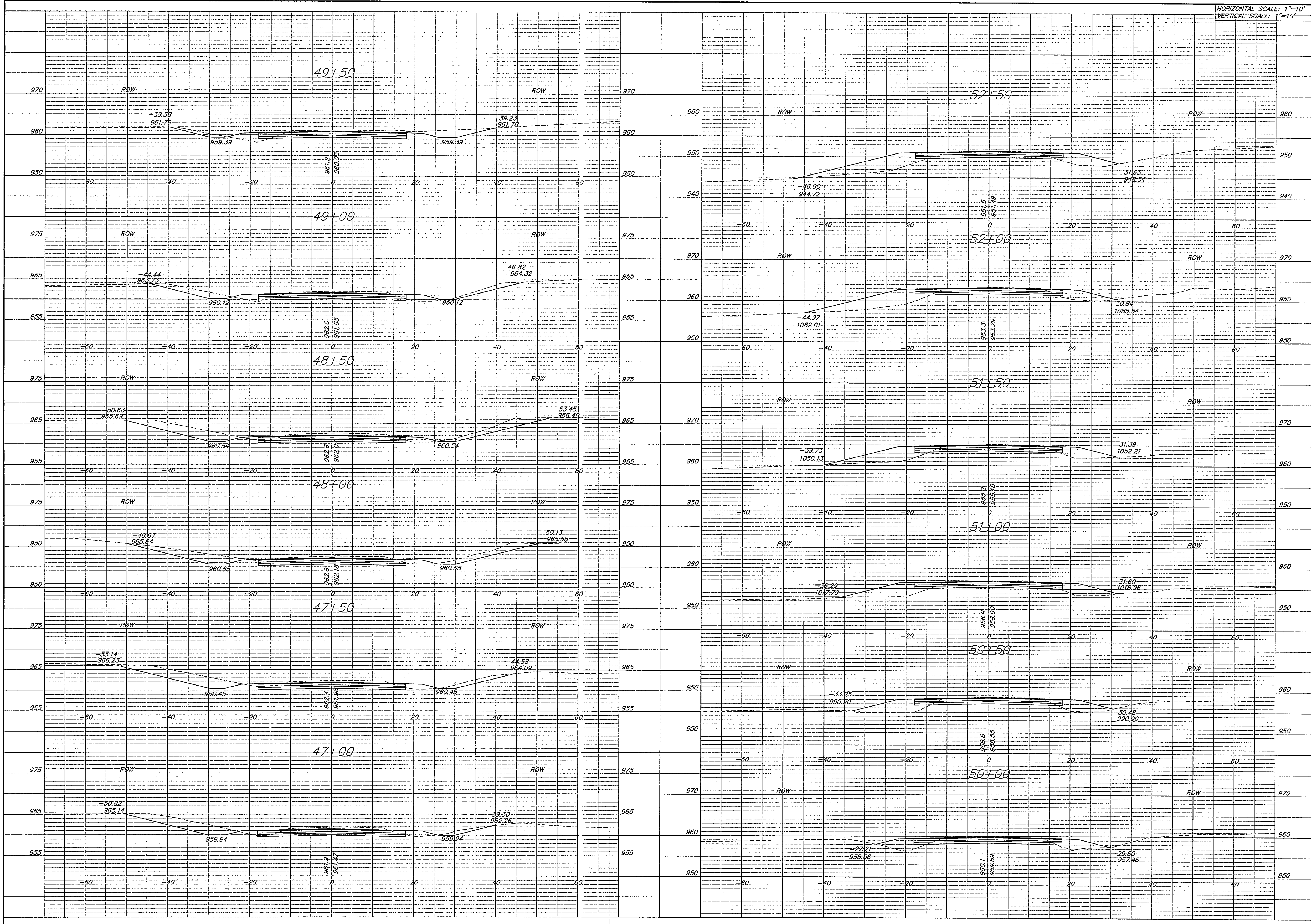


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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

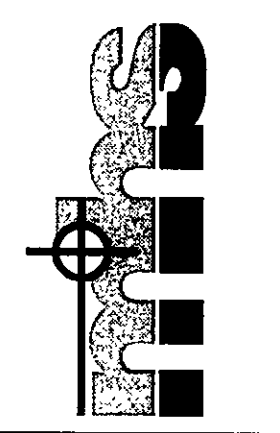
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 Approved:
 Proj. No. 2004.020
 Sheet No:

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 Plotted at: Nov 07, 2006 - 3:51pm



HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'

McAFEE HENDERSON & STRICK, INC.
 Civil Engineering & Land Surveying
 1230 W. 151st St. Suite 200 Olathe, KS 66041
 Ph: (913) 782-7744 Fax: (913) 380-8686



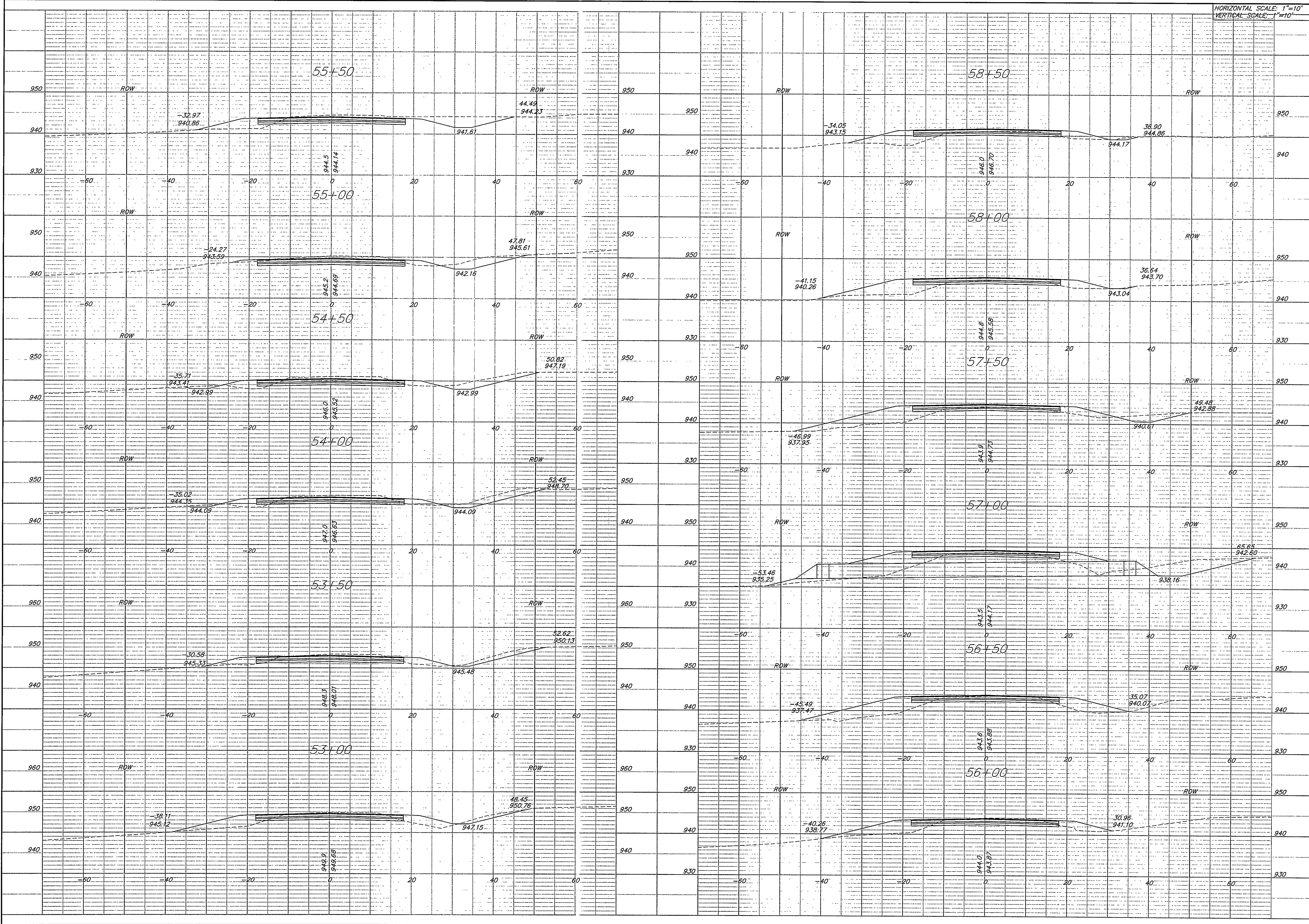
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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
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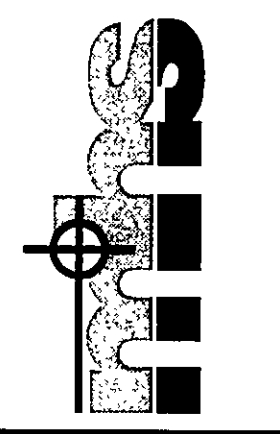
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 Approved:
 Proj. No. 2004-020
 Sheet No:

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 Plotted at: Nov 07, 2006 - 3:50pm

HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'



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 Civil Engineering & Land Surveying
 1280 W. 151st St. Suite 200 Olathe, KS 66061
 Ph: (913) 782-7744 Fax: (913) 380-9885

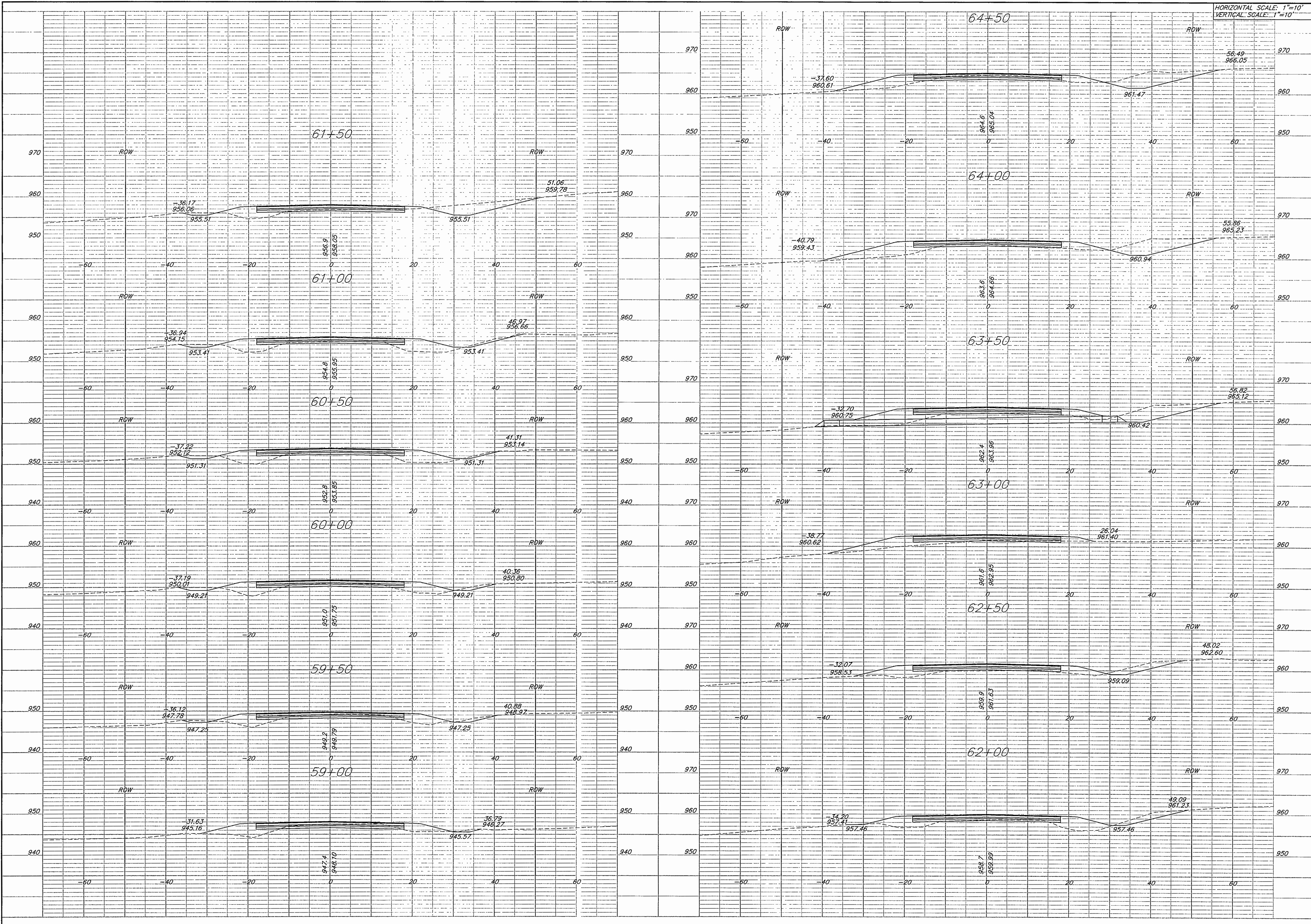


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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

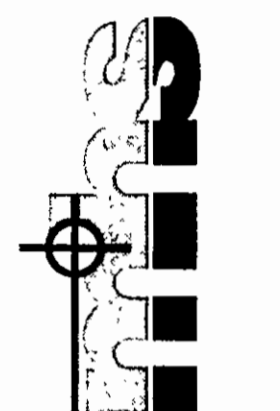
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Drawn:	BRE
Checked:	JLM
Approved:	
Proj. No.:	2004.020
Sheet No.:	

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 Plotted at: Nov 07, 2006 - 3:50pm



HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'

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 Ph: (913) 782-7144 Fax: (913) 390-9885



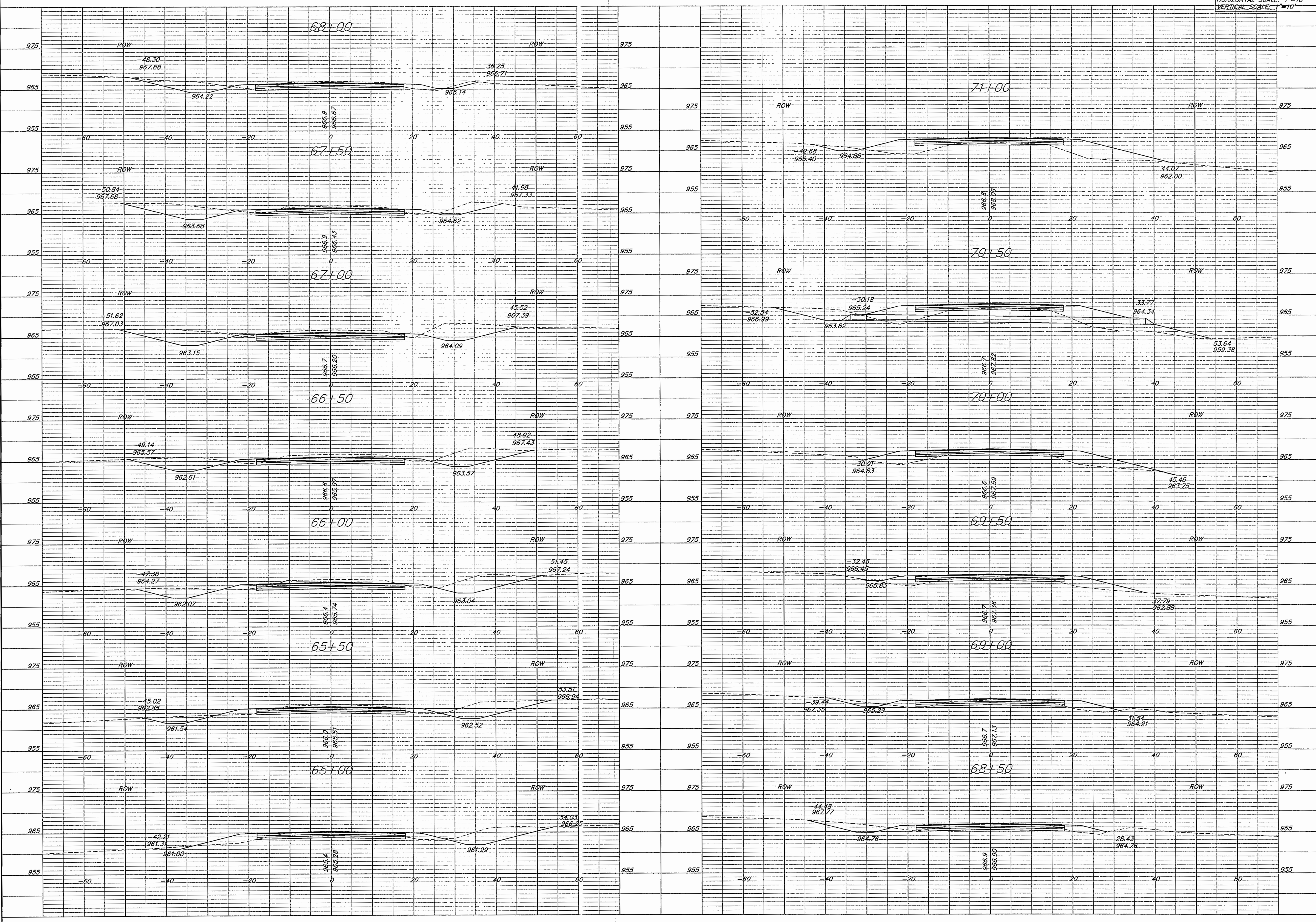
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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

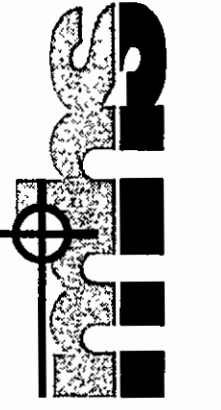
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 Plotted at: Nov 07, 2006 - 3:50pm

HORIZONTAL SCALE: 1"=10'
 VERTICAL SCALE: 1"=10'



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No.	Date	By	App.
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**COUNTY ROUTE 2
 LEAVENWORTH COUNTY, KANSAS
 CROSS SECTIONS**

Date: 09/13/04
 Designed: MDH
 Drawn: BRE
 Checked: JLM
 Approved:
 Proj. No. 2004.020
 Sheet No: