

Bk. 113 - Dr. 16

DITCH #2

Stadia Survey

OBJECT	AZIMUTH	STADIA	DISTANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
H.I. = 911.31 with level from silver Lake Ditch #3								
At Δ#1 on sec line between Ct. Sec 32 and N ¼ Cor. Sec. 32								(904.50)
N ¼ Sec. 32	0° 00'	8.20						
Δ#2	101° 16'	2.32				13.58		897.73
Δ#3	322° 44'	4.05						
Δ#4	327° 55'	7.50						
Fence Line runs N & S	33° 50'	0.57						
End 36" C.M. CULV. Ditch 4' W 5'	58° 34'	0.44				GROUND 18.2		
End 36" C.M. CULV. Ditch 4' W + 7'	315° 13'	0.55				GROUND 20.1		
ANGLE IN DITCH	309° 51'	0.75				19.2		
	(H.I. 5.03)		H.I. = 902.76					
At Δ#2								897.73
To Δ#1	281° 16'	2.32						8
Angle in ditch 4' W x 4' deep	46° 40'	0.14				9.4		
& Ditch	135° 45'	1.79				9.4		
End of Ditch At LAKE	137° 43'	3.81				10.0		

Page 2 Transit KE Obs. Aubur Line ditch #2
 Date 1-8-90 Rec. Naden

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
EDGE OF LAKE	146° 15'	4.53						
" " "	153° 00'	4.94						
" " "	162° 25'	6.23						
" " "	125° 10'	3.55						
" " "	105° 45'	3.62						
" " "	100° 00'	4.80						
H.I. = 902.03 with Level								
ATA [#] 3								
To A [#] 1	142° 44'	4.05						
To A4	333° 59'	3.47						
Δ in Ditch End 36" Conc. Culv.	153° 13'	1.40				Ground 10.20 F.LINE 10.42		
Δ HIGHWAY Ditch.	36° 30'	0.19				9.2		
36" conc. CULV.	179° 32'	1.49				F.LINE 10.70		
Δ in Ditch.	180° 27'	1.49				9.9		
" " to PAVEMENT	346° 31'	1.40				9.3		
Δ Ditch.	247° 40'	0.51				10.7		
Δ PAVEMENT BEG. CURVE	336° 20'	3.05						

Page. 3 Transit. Obs. Line Ditch # 2
 Date. 1-8-40 Rec. NADON

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
End of GUARD RAIL RUNS S.	158° 45'	0.90						
& 27' PAVEMENT END OF CURVE	163° 30'	2.28						
& PAVEMENT ON CURVE	162° 47'	3.65						
& DOUBLE TRACK ON CURVE	140° 00'	3.12		+	2° 30'			
" " " " "	0° 41'	2.63		+	2° 55'			
" " " " "	341° 34'	2.28		+	3° 07'			
" " " " "	319° 11'	2.22		+	3° 04'			
" " " " "End of CURVE	302° 50'	2.38		+	3° 00'			
" " " " "ON TANGENT	282° 08'	2.95		+	2° 20'			
A DITCH.	319° 10'	1.52				10.1		
" "	310° 40'	1.65				10.8		
END 48" IRON CULV.	312° 11'	1.78				F. LINE 12.22		
	(H 15.33)	H 1	901.53	WITH LEVEL				
At Δ #4								896.20
To Δ #1	147° 55'	7.48						
Δ #5	332° 27'	5.58				2.21		899.32
& PAV. ON CURVE	351° 45'	1.08						

Page 4 Transit. Obs. Line Ditch #2
 Date 1-8-40 Rec. NADON

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
BEG. GUARDRAIL RUNS N.	341° 15'	1.0						
PAV ON CURVE	351° 58'	2.32						
" " "	355° 23'	3.57						
END OF GUARDRAIL	352° 26'	3.60						
FENCE CORNER RUNS W-S.	338° 40'	1.97						
END 24" CONC CULV	126° 00'	0.74				FLINE 9.80		
" " "	170° 00'	0.61				GROUND 10.20		
" " "						FLINE 11.32		
END 48" IRON CULV	194° 55'	1.20				FLINE 11.52		
Δ DITCH INT. WITH BRANCH	209° 08'	0.92				10.10		
Δ DITCH	298° 18'	1.32				10.4		
FENCE CROSSES Δ DITCH	316° 00'	2.56				10.6		
	(H.I. 5.32)	909.62 909.64			H.I. = 909.61			
ATA #5								899.31 899.32
To A #4	152° 27'	4.57				8.42		890.20
A #6	315° 36'	3.77				6.54		898.07
BEG. PLANK CROSSING	181° 52'	1.46				14.2		
END " " 4' WIDE	184° 30'	1.39				13.9		

Page 5 Transit Obs. Anker Line Ditch #2
 Date 1-8-40 Rec. Nolan

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
END 36" C.M. CULV.	264° 55'	1.19				GROUND 14.40 FLINE 15.45		
END GUARD RAIL S. SIDE OF ROAD	345° 54'	0.10						
" " " N. " " "	310° 30'	0.50						
" " " S " " "	272° 10'	3.14						
" " " N " " "	276° 30'	3.16						
END 36" C.M. CULV.	290° 10'	1.61				GROUND 14.5 FLINE 15.23		
FENCE CORNER RUNS W-N	289° 30'	13.8						
	H.I. 4.10							
ATA #6								898.07
TO A #5	135° 36'	3.76						899.31
A #7	305° 31'	4.18				6.88		895.29
A Ditch 3' W - 6' DEEP	131° 48'	1.30				12.80		
" "	91° 55'	0.65				12.9		
FENCE CORNER RUNS E-S-W	53° 45'	1.31						
FENCE LINE CROSSES DITCH	325° 53'	0.95				14.5		

Co. Rd. "E"

H.I. = 902.17

Page 6.....Transit.....Obs. Anchor.....Line Ditch #2
 Date 1-9-40.....Rec. Madon.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
	(H.I. 4.15)	^{899.46} 899.44		H.I. = 899.45				
At Δ #7								895.29
To Δ #6	125° 31'	4.18				1.38		896.07
Δ #8	349° 57'	3.65				11.53		887.92
Q Ditch	116° 21'	1.96				12.3		
Δ Ditch	83° 50'	0.37				12.7		
.. ..	37° 35'	0.30				13.4		
.. ..	20° 00'	0.49				13.5		
.. ..	13° 15'	0.78						
TW. WILLOW 15"	45° 35'	0.31						
.. .. 15"	30° 00'	0.35						
Q Ditch 4' DEEP 3' W.	359° 05'	1.62				14.3		
FENCE LINE RUNS N-S.	341° 47'	1.63						
BEG. CURVE	354° 55'	2.60				14.9		

Page 7 Transit Arket Obs. Arket Line Ditch #2
 Date 1-2-40 Rec. Nadern

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
<u>At $\Delta^{\#} 8$</u>	<u>(44.4.17)</u>		<u>HI =</u>	<u>892.09</u>				<u>887.92</u>
<u>To $\Delta^{\#} 7$</u>	<u>168° 57'</u>	<u>3.65</u>						
<u>$\Delta^{\#} 7$</u>	<u>329° 39'</u>	<u>4.90</u>				<u>10.86</u>		<u>881.23</u>
<u>A Ditch.</u>	<u>154° 30'</u>	<u>0.70</u>				<u>7.8</u>		
<u>N + S Fe. CROSSES Ditch end curve</u>	<u>165° 46'</u>	<u>0.32</u>				<u>8.6</u>		
<u>Fe. CORNER RUNS E-W-S.</u>	<u>2° 40'</u>	<u>1.33</u>						
<u>E-W Fe. CROSSES Ditch 3' W - 3' Deep</u>	<u>314° 02'</u>	<u>1.94</u>						
<u>End PLANK CROSSING 6' WIDE</u>	<u>314° 17'</u>	<u>2.17</u>				<u>10.0</u>		
<u>" " " " " "</u>	<u>314° 47'</u>	<u>2.26</u>				<u>10.0</u>		
<u>E Ditch Beg. curve & Trees.</u>	<u>316° 03'</u>	<u>3.06</u>				<u>10.5</u>		

Page 2 Transit Obs. Anker Line Ditch #2
 Date 1-2-40 Rec. Nader

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle			
	(H.I. 5.15)		H.I. =	886.38				
At Δ #9								881.23
To Δ #8	149° 39'	4.90						
Δ #10	328° 59'	6.82				7.60		878.78
center of curve 3'W-3'DEEP	187° 37'	1.43				4.9		
END CURVE & TREES IN DITCH	213° 40'	0.94				5.4		
Q Ditch 2'DEEP 3'WIDE	298° 20'	1.38				6.0		
" "	318° 43'	2.98				6.9		
Δ Ditch	323° 47'	4.37				7.6		
	(H.I. 5.01)	883.79	H.I. 883.83					878.82
AT Δ #10								878.78
To Δ #9	148° 59'	6.81				2.64		881.23
Δ #11	347° 39'	7.15				7.55		876.28
Q Ditch	132° 26'	0.65				7.5		
Q CROSSING	128° 12'	0.60						
Q Ditch 1'DEEP-5'WIDE	6° 14'	1.21				6.5		
" " 1'DEEP-4' "	354° 18'	3.28				7.8		

Page 9 Transit Obs. ANKER Line Ditch #2
 Date 1-9-40 Rec. NADON

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+	No. of Int. Down- or Angle			
AT A [#] 11	(H. 1.522)	881.49 881.53	H. 1. 881.51					876.29 876.28
TO A [#] 10	167° 39'	7.15				2.71		878.82
A [#] 12	357° 12'	10.57				0.93		880.58
Fe CORNER N-E	150° 57'	1.48						
£ Ditch	152° 47'	1.46				6.3		
Fe. CORNER RUNS E-S	134° 35'	0.92						
" " " N-E	116° 27'	1.52						
" " " E-W-S	88° 54'	1.37						
" " " N-E	85° 45'	0.63						
W. 1/4 Cor. Sec. 29	245° 40'	5.98						
£ Ditch	33° 30'	0.97				6.8		
Fe. CORNER RUNS S-E	34° 47'	1.00						
£ Ditch BEG. WILLOW TREES	7° 16'	3.10				6.9		
" " 3' Deep								
" " 4' Wide	2° 49'	5.07				1.1		
£ Plank Xing	159° 35'	2.55						

Page 10.....Transit K.E. 4511.....Obs. Anter.....Line Ditch #2Date 1-10-90.....Rec. Nadar.....

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE		READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.		
	(H.I. 5.33)	$\left. \begin{array}{l} 885.99 \\ 885.91 \end{array} \right\}$						$H.I. = 885.95$
At Δ #12								880.62
To Δ #11	177° 12'	10.58				9.70		880.58
Δ #13	5° 05'	4.22				9.06		
Ditch Levels are 0.53' higher than Cemetery Rd. Level Data.								
^{3' DEEP} & Ditch End within Trees 4' W								
	161° 28'	1.48				13.1		
END 30" C.M. CULV.	120° 25'	0.46				GROUND 13.3		
						F.LINE 14.0		
APPROX. & CEMETERY RD.	272° 48'	1.28				4.0		
" " " "	88° 20'	1.50				1.8		
						GROUND 13.1		
END 30" C.M. CULV.	44° 49'	0.57				F.LINE 15.0		
& DITCH BEG. CURVE	14° 12'	3.26				13.8		
	(H.I. 5.1)	$\left. \begin{array}{l} 881.99 \\ 882.0 \end{array} \right\}$						$H.I. = 881.99$
At Δ #13								876.89
To Δ #12	185° 05'	4.22				1.38		880.62
Δ #14	356° 31'	5.40				9.50		872.49
CENTER of CURVE	141° 32'	0.82						
END OF CURVE IN DITCH 4' W	118° 18'	0.60				10.4		

Page. 11 Transit Obs. ANKER Line. Ditch #2
 Date. 1-10-40 Rec. NADAN

OBJECT	AZIMUTH	STADIA	DIS- TANCE	INTERVALS OR VER. ANGLE			READ. ON ROD	DIFF. OF ELEV.	ELEVATION ABOVE DATUM
				Up+ Down-	No. of Int. or Angle	Rod Equiv.			
END 30" vit CULV	27° 12'	1.5				GROUND	12.1		
.. .. .	24° 37'	1.28				F.LINE	12.52		
							18.6		
Q DITCH	13° 06'	2.30				F.LINE	12.3		
INT. OF DITCHES	7° 38'	4.08					12.5		
L BRANCH DITCH 2' deep	16° 39'	4.33					13.3		
2" W							11.6		
END OF BRANCH DITCH 8" vit. TILC RUNSE.	37° 05'	5.54					9.6		
	(H. 14.88)								
ATA #14									872.49
TO Δ #13	176° 31'	5.40					0.42		876.89
N.W. Cor. Sec. 29	365° 13'	6.34							
BEG. CURVE IN DITCH.	120° 10'	0.95					8.4		
Ctr. OF CURVE IN DITCH.	87° 57'	0.85					8.9		
END OF CURVE IN DITCH.	43° 05'	1.00					9.5		
Q DITCH 2' deep 8' wide	130° 55'	1.70					8.9		
DITCH ENTERS LAKE.	354° 47'	4.20					11.0		
Bottom OF LAKE.	350° 15'	6.40					15.0		
ELEV. OF LAKE.							10.70		

H.I. = 877.34

