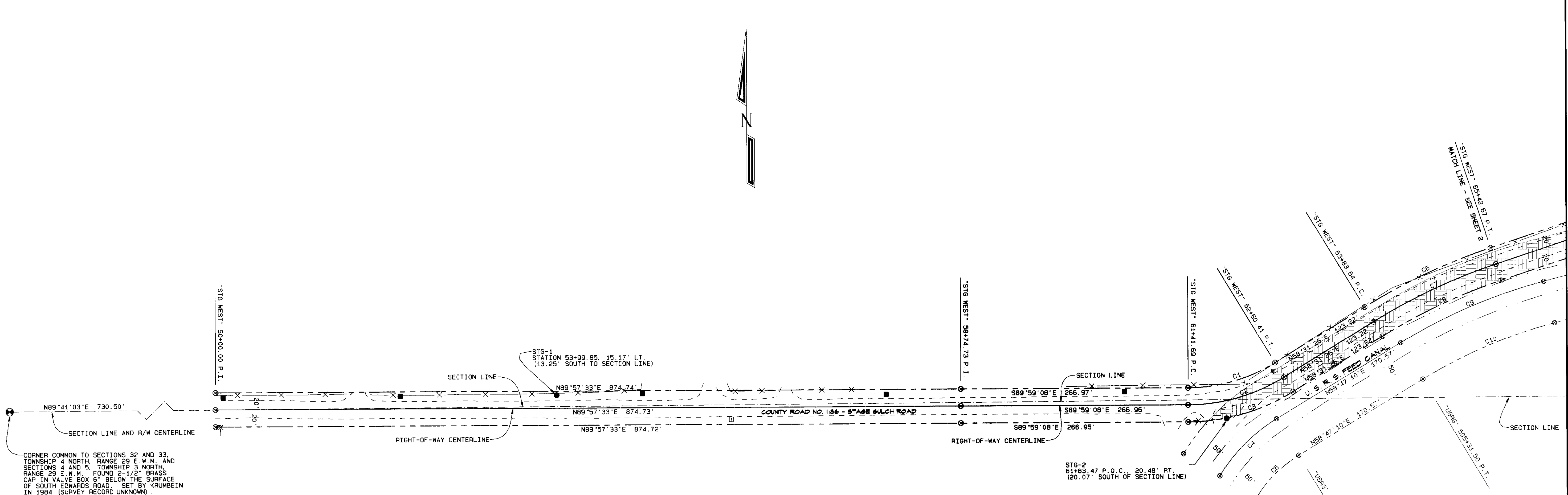


# STAGE GULCH ROAD/SOUTH ASH ROAD LEGALIZATION SURVEY

NOTE: FOR SECTION LINE DETAILS AND NARRATIVE, SEE SHEET 5



CORNER COMMON TO SECTIONS 32 AND 33, TOWNSHIP 4 NORTH, RANGE 29 E.W.M. AND SECTIONS 4 AND 5, TOWNSHIP 5 NORTH, RANGE 29 E.W.M. FOUND 2-1/2" BRASS CAP IN VALVE BOX 6" BELOW THE SURFACE OF SOUTH EDWARDS ROAD. SET BY KRUMBEIN IN 1984 (SURVEY RECORD UNKNOWN). A 2-1/2" BRASS CAP WITNESS CORNER SET BY EDWARDS IN 1974 BEARS N45°03'03"W, 38.01'; A 2-1/2" BRASS CAP WITNESS CORNER SET BY EDWARDS IN 1974 BEARS S52°40'59"W, 35.06 FEET (NO RECORD FOUND FOR THE WITNESS CORNERS).

TRAVERSE LINE DATA

POINT I.D.	BEARING	DISTANCE
NORTHWEST CORNER SECTION 4		
STG-1	N89°00'45"E	1130.50'
STG-2	S87°44'48"E	787.91'
STG-4	N63°09'10"E	672.25'

- LEGEND
- FOUND SECTION MONUMENT AS NOTED
  - FOUND 5/8" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UMA.CO.R.D. . . . LS2627" SET IN SURVEY R-2
  - SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCPWD. . . . LS2627"
  - ⊗ CALCULATED POINT ONLY - NOTHING FOUND OR SET
  - POWER POLE
  - GUY WIRE AND ANCHOR
  - TELEPHONE PEDESTAL
  - W IRRIGATION RISER
  - CANAL R/W LINE
  - ROAD R/W LINE
  - ROAD CENTERLINE
  - CANAL CENTERLINE
  - X---X--- FENCE
  - EDGE OF WATER
  - SECTION OR SECTION SUBDIVISION LINE
  - EDGE OF ROAD

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	31°29'26"	196.02'	107.73'	N74°16'09"E	106.38'
C2	31°29'26"	216.02'	118.73'	N74°16'09"E	117.24'
C3	31°29'26"	236.02'	129.72'	N74°16'09"E	128.09'
C4	27°09'57"	200.60'	95.11'	N45°12'12"E	94.22'
C5	27°09'57"	190.60'	71.40'	N45°12'12"E	70.73'
C6	13°12'24"	709.93'	163.64'	N65°07'38"E	163.28'
C7	13°12'24"	689.93'	159.03'	N65°07'38"E	158.68'
C8	13°12'24"	669.93'	154.42'	N65°07'38"E	154.08'
C9	16°39'04"	630.01'	183.09'	N67°06'42"E	182.45'
C10	16°39'04"	580.01'	168.56'	N67°06'42"E	167.97'

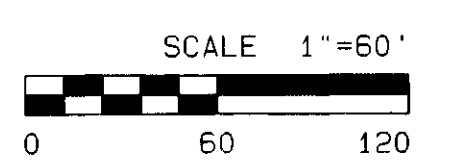
- SURVEY RECORDS
- R-1 REMONUMENTATION SURVEY FOR UMATILLA COUNTY BY EDWARDS, SURVEY NO. 95-60-B
  - R-2 SECTION 33 SUBDIVISION SURVEY FOR UMATILLA COUNTY BY ROBERTS, SURVEY NO. 96-70-C
  - R-3 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 98-155-C
  - R-4 GPS SURVEY FOR UMATILLA COUNTY BY BRIT PRIM, SURVEY NO. 02-49-G
  - R-5 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 02-164-G

OREGON STATE PLANE COORDINATES  
NAD '83 (91) - INTERNATIONAL FEET

POINT DESCRIPTION	NORTHING	EASTING
"STG WEST" 50+00.00 P.I. CL	772,052.46	8,533,228.04
"STG WEST" 58+74.73 P.I. CL	772,067.21	8,534,102.57
"STG WEST" 61+41.69 P.C. CL	772,071.45	8,534,369.48
"STG WEST" 62+60.41 P.T. CL	772,105.05	8,534,481.79
"STG WEST" 63+83.64 P.C. CL	772,171.08	8,534,585.82
"STG WEST" 65+42.67 P.T. CL	772,240.13	8,534,728.67
"USRS" 505+31.50 P.T. CL	772,147.01	8,534,618.05
"USRS" 507+02.07 P.C. CL	772,056.27	8,534,473.62
"USRS" 507+97.13 P.O.C. CL	771,988.82	8,534,407.85
STG-1	772,074.37	8,533,627.54
STG-2	772,056.11	8,534,415.18
NW CORNER SECTION 4	772,036.63	8,532,497.77
	(772,036.43	8,532,497.59, R-4)

REGISTERED PROFESSIONAL LAND SURVEYOR  
GARY R. ROBERTS  
JULY 20, 1993  
RENEWS 12/31/2004

NOTE: AREAS SHADED THUS REPRESENT OVERLAP BETWEEN FEED CANAL RIGHT-OF-WAY AND ROAD RIGHT-OF-WAY



UMATILLA COUNTY ROAD DEPARTMENT  
3920 WESTGATE  
PENDLETON, OREGON 97801  
PHONE 541/278-5424

LEGALIZATION SURVEY  
COUNTY ROAD NO. 1183 - SOUTH ASH ROAD  
COUNTY ROAD NO. 1186 - STAGE GULCH ROAD

LOCATED: SECTION 33, T. 4 NORTH, RANGE 29 E.W.M.  
SECTION 4, T. 3 NORTH, RANGE 29 E.W.M.

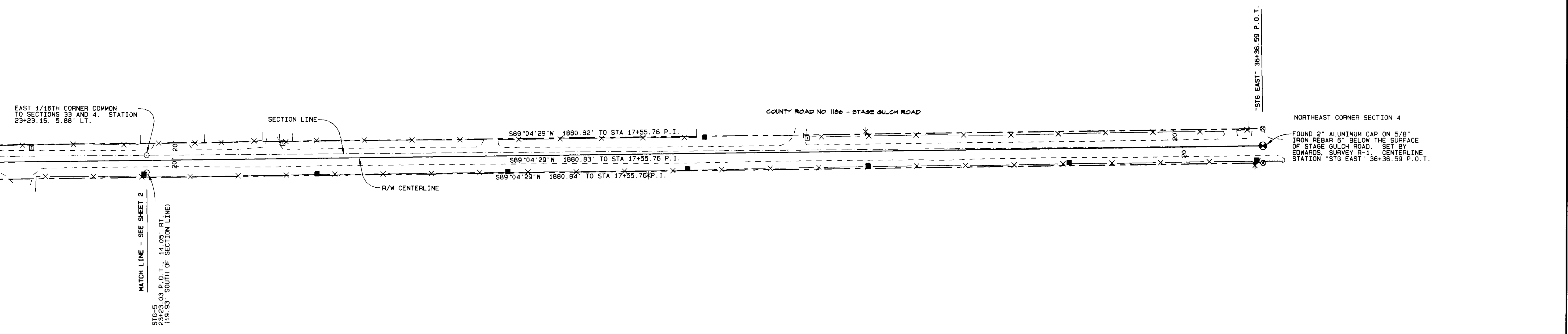
DATE OF SURVEY: MARCH, 2004 SHEET 1 OF 5

RECEIVED BY  
Umatilla County Surveyor  
Date 3-04  
Rec'd by KK  
No. 04-63-C



STAGE GULCH ROAD/SOUTH ASH ROAD LEGALIZATION SURVEY

NOTE: FOR SECTION LINE DETAILS AND NARRATIVE, SEE SHEET 5



EAST 1/16TH CORNER COMMON TO SECTIONS 33 AND 4. STATION 23+23.16, 8.88' LT.

MATCH LINE - SEE SHEET 2

STG-5 14.05' HT. (15'33\"/>

NORTHEAST CORNER SECTION 4

FOUND 2\"/>

LEGEND

- ⊗ FOUND SECTION MONUMENT AS NOTED
- FOUND 5/8\"/>

TRAVERSE LINE DATA

POINT I.D.	BEARING	DISTANCE
N. 1/4 COR. SECTION 4	S89°47'53\"/>	

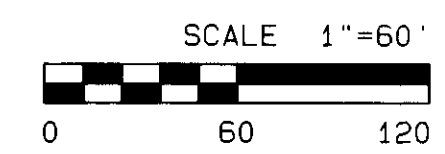
OREGON STATE PLANE COORDINATES - NORTH ZONE 3601

NAD '83 ('91) - INTERNATIONAL FEET

POINT DESCRIPTION	NORTHING	EASTING
STG-5	772,110.13	8,536,437.31
E 1/16 SECS. 33, /4	772,130.05	8,536,436.79
NE COR. SEC. 4	772,166.59	8,537,749.62

SURVEY RECORDS

- R-1 REMONUMENTATION SURVEY FOR UMATILLA COUNTY BY EDWARDS, SURVEY NO. 95-60-B
- R-2 SECTION 33 SUBDIVISION SURVEY FOR UMATILLA COUNTY BY ROBERTS, SURVEY NO. 96-70-C
- R-3 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 98-155-C
- R-4 GPS SURVEY FOR UMATILLA COUNTY BY BRIT PRIM, SURVEY NO. 02-49-G
- R-5 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 02-169-G



UMATILLA COUNTY ROAD DEPARTMENT  
3920 WESTGATE  
PENDLETON, OREGON 97801  
PHONE 541/278-5424

LEGALIZATION SURVEY  
COUNTY ROAD NO. 1183 - SOUTH ASH ROAD  
COUNTY ROAD NO. 1186 - STAGE GULCH ROAD  
LOCATED: SECTION 33, T. 4 NORTH, RANGE 29 E.W.M.  
SECTION 4, T. 3 NORTH, RANGE 29 E.W.M.

DATE OF SURVEY: MARCH, 2004 SHEET 3 OF 5

REGISTERED PROFESSIONAL LAND SURVEYOR

GARY R. ROBERTS  
2627  
RENEWS 12/31/2004

RECEIVED BY  
Umatilla County Surveyor  
Date 3-04  
Rec'd by KK  
No. 04-83-C

# STAGE GULCH ROAD/SOUTH ASH ROAD LEGALIZATION SURVEY

NOTE: FOR SECTION LINE DETAILS AND NARRATIVE, SEE SHEET 5

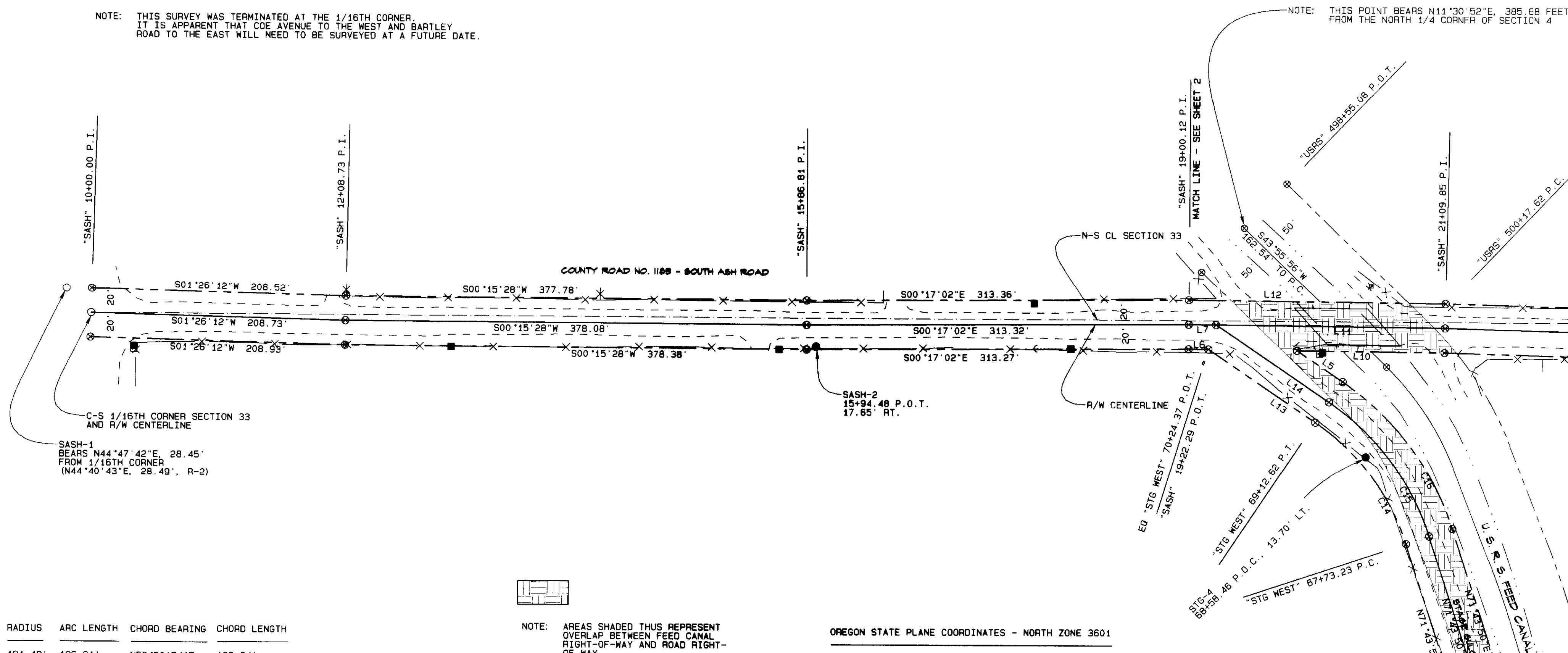


### LEGEND

- ⊗ FOUND SECTION MONUMENT AS NOTED
- FOUND 5/8" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UMA.CO.R.D. ... LS2627" SET IN SURVEY R-2
- SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCPWD...LS2627"
- ⊗ CALCULATED POINT ONLY - NOTHING FOUND OR SET
- POWER POLE
- ⋯ GUY WIRE AND ANCHOR
- TELEPHONE PEDESTAL
- ⚡ IRRIGATION RISER
- CANAL R/W LINE
- ROAD R/W LINE
- ROAD CENTERLINE
- CANAL CENTERLINE
- FENCE
- EDGE OF WATER
- SECTION OR SECTION SUBDIVISION LINE
- EDGE OF ROAD

NOTE: THIS SURVEY WAS TERMINATED AT THE 1/16TH CORNER. IT IS APPARENT THAT COE AVENUE TO THE WEST AND BARTLEY ROAD TO THE EAST WILL NEED TO BE SURVEYED AT A FUTURE DATE.

NOTE: THIS POINT BEARS N11°30'52"E, 385.68 FEET FROM THE NORTH 1/4 CORNER OF SECTION 4



NOTE: AREAS SHADED THUS REPRESENT OVERLAP BETWEEN FEED CANAL RIGHT-OF-WAY AND ROAD RIGHT-OF-WAY

OREGON STATE PLANE COORDINATES - NORTH ZONE 3601

NAD '83 ('91) - INTERNATIONAL FEET

POINT DESCRIPTION	NORTHING	EASTING
"STG WEST" 65+42.67 P.T. CL	772,240.13	8,534,728.67
"STG WEST" 67+73.23 P.C. CL	772,315.93	8,534,946.40
"STG WEST" 69+12.62 P.T. CL	772,400.34	8,535,054.14
"STG WEST" 70+24.37 P.O.T. CL	772,494.01	8,535,115.06
"SASH" 10+00.00 P.I. CL (1/16 CORNER)	773,416.13	8,535,105.76
"SASH" 12+08.73 P.I. CL	773,207.42	8,535,103.89
"SASH" 15+86.81 P.I. CL	772,829.40	8,535,108.30
"SASH" 19+00.12 P.I. CL	772,516.18	8,535,114.91
"SASH" 21+09.85 P.I. CL	772,306.47	8,535,116.35
"USRS" 498+55.08 P.O.T. CL	772,472.62	8,535,194.77
"USRS" 500+17.62 P.C. CL	772,353.77	8,535,083.92
SASH-1	773,436.64	8,535,125.47
SASH-2	772,821.36	8,535,090.82
STG-4	772,389.33	8,535,009.94

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C14	37°45'51"	191.48'	126.21'	N52°50'54"E	123.94'
C15	37°45'51"	211.48'	139.39'	N52°50'54"E	136.88'
C16	37°45'51"	231.48'	152.57'	N52°50'54"E	149.83'

### LINE TABLE

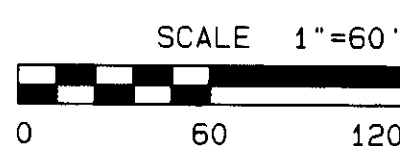
LINE NO.	BEARING	DISTANCE
L5	N33°57'59"E	45.15'
L6	S00°32'02"W	16.02'
L7	S00°32'02"W	22.17'
L10	S00°32'02"W	120.79'
L11	S00°32'02"W	187.56'
L12	S00°32'02"W	210.05'
L13	S33°57'59"W	105.75'
L14	S33°57'59"W	111.75'

### TRAVERSE LINE DATA

POINT I.D.	BEARING	DISTANCE
SASH-1	S04°08'57"W	616.30'
SASH-2	S11°04'12"W	459.24'
STG-4	S63°09'10"W	672.25'
SASH-2	S01°40'40"E	728.63'
N. 1/4 COR. SEC. 4		

### SURVEY RECORDS

- R-1 REMONUMENTATION SURVEY FOR UMATILLA COUNTY BY EDWARDS, SURVEY NO. 95-60-B
- R-2 SECTION 33 SUBDIVISION SURVEY FOR UMATILLA COUNTY BY ROBERTS, SURVEY NO. 96-70-C
- R-3 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 98-155-C
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- R-5 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 02-169-G



UMATILLA COUNTY ROAD DEPARTMENT  
3920 WESTGATE  
PENDLETON, OREGON 97801  
PHONE 541/278-5424

LEGALIZATION SURVEY  
COUNTY ROAD NO. 1183 - SOUTH ASH ROAD  
COUNTY ROAD NO. 1186 - STAGE GULCH ROAD  
LOCATED: SECTION 33, T. 4 NORTH, RANGE 29 E.W.M.  
SECTION 4, T. 3 NORTH, RANGE 29 E.W.M.

DATE OF SURVEY: MARCH, 2004 SHEET 4 OF 5

REGISTERED  
PROFESSIONAL  
LAND SURVEYOR  
*Gary R. Roberts*  
OREGON  
JULY 20, 1993  
GARY R. ROBERTS  
2627  
RENEWS 12/31/2004

RECEIVED BY  
Umatilla County Surveyor  
Date 3-04  
Rec'd by RR  
No. 04-63-C

STAGE GULCH ROAD/SOUTH ASH ROAD LEGALIZATION SURVEY

OREGON STATE PLANE COORDINATES - NORTH ZONE 3601

NAD '83 ('91) - INTERNATIONAL FEET

POINT DESCRIPTION	NORTHING	EASTING
"SASH" 28+68.94 P. I. CL	771,548.01	8,535,138.69
"SASH" 39+61.70 P. I. CL	770,456.20	8,535,181.97
"SASH" 40+93.87 P. I. CL	770,324.30	8,535,190.33
"SASH" 41+58.96 P. C. CL	770,260.12	8,535,201.14
"SASH" 42+15.56 P. T. CL	770,208.23	8,535,222.54
"SASH" 42+50.57 P. O. T. CL	770,179.65	8,535,242.73
SASH-3	771,654.44	8,535,116.42
SASH-4	770,958.62	8,535,175.48
SASH-5	770,210.14	8,535,179.81
C-S 1/16TH COR. SEC. 33	773,416.13	8,535,105.76
NW COR. SEC. 4	772,036.63	8,532,497.77
	(772,036.43)	8,532,497.59, R-4)
N 1/4 COR. SEC. 4	772,093.54	8,535,123.91
	(772,093.54)	8,535,123.91, R-5)
E 1/16TH COR. SEC. 33/SEC. 4	772,130.05	8,536,436.79
NE COR. SEC. 4	772,166.59	8,537,749.62
	(772,166.62)	8,537,749.59, R-5)
S 1/4 COR. SEC. 4	766,784.10	8,535,346.08
	(766,784.55)	8,535,346.06, R-3)

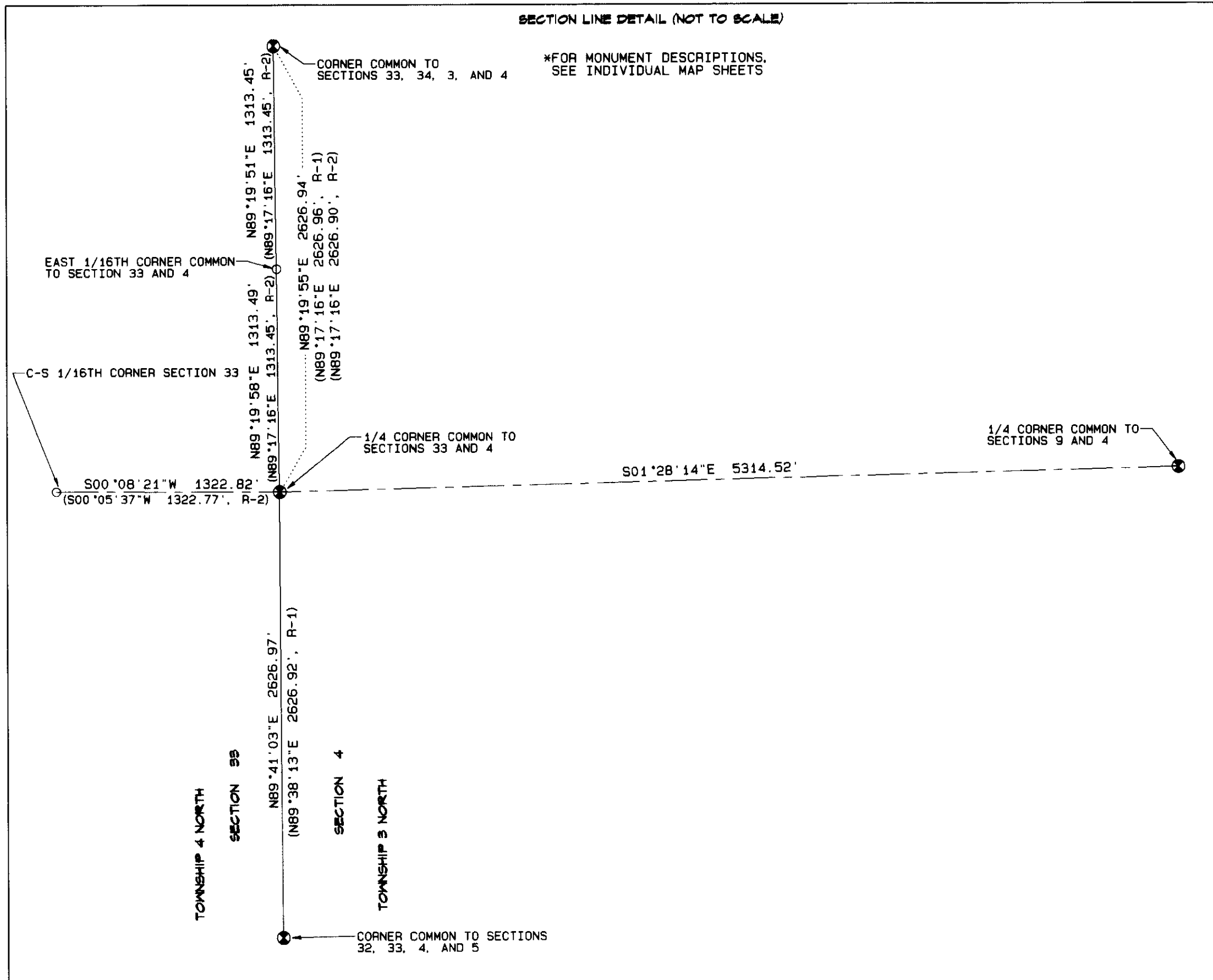
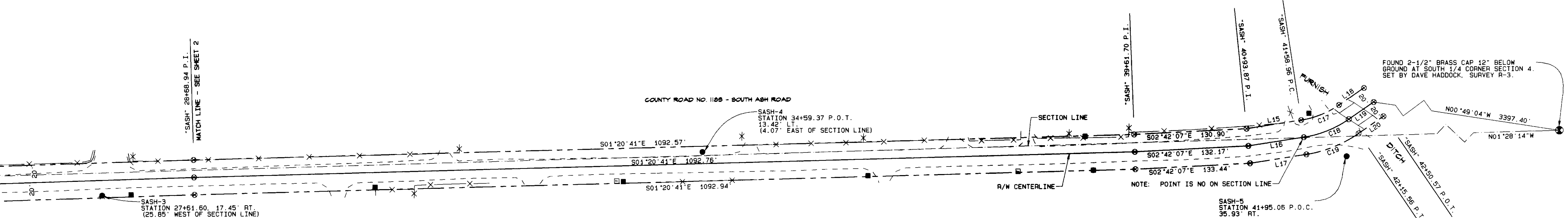
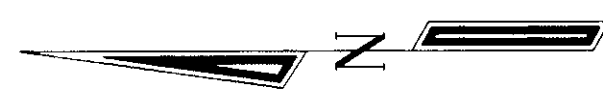
SURVEY NARRATIVE

THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE UMATILLA COUNTY BOARD OF COMMISSIONERS. THE PURPOSE OF THE SURVEY WAS TO MONUMENT THE RIGHT-OF-WAY OF PORTIONS OF COUNTY ROAD NO. 1183, SOUTH ASH ROAD, AND COUNTY ROAD NO. 1186, STAGE GULCH ROAD FOR LEGALIZATION PURPOSES. RIGHT-OF-WAY LOCATION NEEDS TO BE ESTABLISHED DUE TO THE SCHEDULED REPLACEMENT OF THE BRIDGE ON SOUTH ASH ROAD OVER THE U.S.R.S. FEED CANAL IN THE EVENT ADDITIONAL RIGHT-OF-WAY OR CONSTRUCTION EASEMENTS NEED TO BE OBTAINED.

SOUTH ASH ROAD WAS ORIGINALLY ESTABLISHED AS COUNTY ROAD NO. 655 IN 1908. IT RAN SOUTH ALONG THE CENTERLINES OF SECTION 33, T. 4 NORTH, RANGE 29 E.W.M., AND SECTIONS 4 AND 3, T. 3 NORTH, RANGE 29 E.W.M. WITH THE EXCEPTION OF THE AREA WHERE IT CROSSED THE FURNISH DITCH. STAGE GULCH ROAD WAS ORIGINALLY ESTABLISHED AS COUNTY ROAD NO. 725 IN 1911. IT RAN EAST ALONG THE TOWNSHIP LINE BETWEEN TOWNSHIPS 3 AND 4 NORTH IN THE AREA OF THIS SURVEY. NO RECORD IS ON FILE AS TO WHEN OR WHY THE EXISTING TRAVELLED ALIGNMENT ALONG THE NORTH SIDE OF THE FEED CANAL WAS ESTABLISHED. NEITHER ROAD MATCHES EXISTING SECTION MONUMENTATION VERY WELL IN THIS AREA, AND THUS THE NEED FOR "LEGALIZING" THE ROADS.

THE SURVEY WAS PERFORMED USING A SOKKIA RADIAN GPS SYSTEM OPERATED IN RTK MODE. AN AUTONOMOUS BASE POSITION WAS OBTAINED. EXISTING MONUMENTS AND MONUMENTS SET IN THIS SURVEY WERE DOUBLE-TIED ON SEPARATE DAYS AT DIFFERENT TIMES USING STATE PLANE COORDINATES, AND THE COORDINATE VALUES WERE TRANSLATED TO THE RECORD VALUES ON THE NORTH 1/4 CORNER OF SECTION 4 FROM GPS SURVEY 02-169-G BY DAVE HADDOCK. OTHER GPS SURVEYS FOR UMATILLA COUNTY WERE PERFORMED BY BRIT PRIMM AND DAVE HADDOCK IN THE AREA AND THEIR RECORD VALUES ARE SHOWN IN THE COORDINATE TABLES. IT SHOULD BE NOTED THAT EACH OF THESE SURVEYS USED DIFFERENT CONTROL POINTS, AND THUS THE DIFFERENCE IN VALUES.

BEARINGS SHOWN ON THIS SURVEY ARE TRUE AND WERE OBTAINED BY ROTATING GRID BEARINGS 00°55'32" CLOCKWISE, WHICH IS THE CONVERGENCE ANGLE AT THE NORTH 1/4 CORNER OF SECTION 4. DISTANCES SHOWN ARE GROUND DISTANCES AND WERE OBTAINED BY DIVIDING GRID DISTANCES BY A COMBINED SCALE AND ELEVATION FACTOR OF 0.99991956. THE COMBINED FACTOR WAS OBTAINED BY MULTIPLYING THE GRID SCALE FACTOR OF 0.99995096 AT THE NORTH 1/4 CORNER OF SECTION 4 BY AN ELEVATION FACTOR OF 0.99996860 (BASED ON AN AVERAGE PROJECT ELEVATION OF 657 FEET).



LEGEND

- FOUND SECTION MONUMENT AS NOTED
- FOUND 5/8" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UMA.CO.R.D. . . . LS2627" SET IN SURVEY R-2
- SET 5/8" X 30" IRON REBAR WITH YELLOW PLASTIC CAP MARKED "UCPWD. . . LS2627"
- ⊗ CALCULATED POINT ONLY - NOTHING FOUND OR SET
- POWER POLE
- ⋯ GUY WIRE AND ANCHOR
- TELEPHONE PEDESTAL
- ⋈ IRRIGATION RISER
- CANAL R/W LINE
- ROAD R/W LINE
- ROAD CENTERLINE
- CANAL CENTERLINE
- X-X- FENCE
- EDGE OF WATER
- SECTION OR SECTION SUBDIVISION LINE
- EDGE OF ROAD

LINE TABLE

LINE NO.	BEARING	DISTANCE	TRAVERSE LINE DATA
L15	S08°38'17"E	64.06'	POINT I.D.
L16	S08°38'17"E	65.09'	BEARING
L17	S08°38'17"E	66.13'	DISTANCE
L18	S34°19'04"E	35.00'	N. 1/4 COR. SEC. 4
L19	S34°19'04"E	35.00'	SASH-3
L20	S34°19'04"E	35.00'	SASH-4
			SASH-5

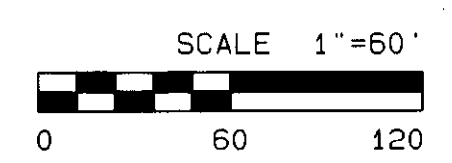
CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C17	25°40'47"	106.29'	47.64'	S21°28'40"E	47.24'
C18	25°40'47"	126.29'	55.60'	S21°28'40"E	56.13'
C19	25°40'47"	146.29'	65.57'	S21°28'40"E	65.02'

SURVEY RECORDS

- R-1 REMONUMENTATION SURVEY FOR UMATILLA COUNTY BY EDWARDS, SURVEY NO. 95-60-B
- R-2 SECTION 33 SUBDIVISION SURVEY FOR UMATILLA COUNTY BY ROBERTS, SURVEY NO. 96-70-C
- R-3 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 98-155-C
- R-4 GPS SURVEY FOR UMATILLA COUNTY BY BRIT PRIMM, SURVEY NO. 02-49-G
- R-5 GPS SURVEY FOR UMATILLA COUNTY BY DAVE HADDOCK, SURVEY NO. 02-169-G

REGISTERED PROFESSIONAL LAND SURVEYOR  
 Gary R. Roberts  
 JUL 20, 1993  
 OREGON  
 GARY R. ROBERTS  
 2627  
 RENEWS 12/31/2004



NOTE: THIS SURVEY WAS TERMINATED AT THE FURNISH DITCH. IT IS APPARENT THAT THE REMAINDER OF SOUTH ASH ROAD WILL NEED TO BE SURVEYED AT A FUTURE DATE.

UMATILLA COUNTY ROAD DEPARTMENT  
 3920 WESTGATE  
 PENDLETON, OREGON 97801  
 PHONE 541/278-5424

LEGALIZATION SURVEY  
 COUNTY ROAD NO. 1183 - SOUTH ASH ROAD  
 COUNTY ROAD NO. 1186 - STAGE GULCH ROAD  
 LOCATED: SECTION 33, T. 4 NORTH, RANGE 29 E.W.M.  
 SECTION 4, T. 3 NORTH, RANGE 29 E.W.M.

DATE OF SURVEY: MARCH, 2004 SHEET 5 OF 5

RECEIVED BY  
 Umatilla County Surveyor  
 Date: 3-04  
 Rec'd by: KR  
 No. 04-163-C