

HOLDMAN ROAD MONUMENTATION/Legalization Survey

OREGON STATE PLANE COORDINATES - NORTH ZONE 3601

NAD '83 ('91) - INTERNATIONAL FEET

POINT DESCRIPTION	STATION AND OFFSET	NORTHING	EASTING
SET RAILROAD SPIKE	500+00.00 P.O.T. CL	801,082.25	8,669,248.40
SET RAILROAD SPIKE	501+95.01 P.C. CL	801,071.42	8,669,443.08
SOUTHWEST CORNER SECTION 2 BRASS CAP (HADDOCK)	502+77.79 P.O.C., 12.39' LT	801,081.42	8,669,525.88
M-1 5/8" REBAR (HADDOCK)	504+28.75 P.O.C., 16.03' LT	801,091.92	8,669,675.08
SET RAILROAD SPIKE	504+80.93 P.T. CL	801,081.74	8,669,728.39
SET RAILROAD SPIKE	505+62.29 P.C. CL	801,092.11	8,669,809.08
CALCULATED POINT	508+75.65 P.T. CL	801,123.02	8,670,120.83
M-2 5/8" REBAR (HADDOCK)	508+75.57 P.O.C., 0.03' LT	801,123.05	8,670,120.84
M-3 5/8" REBAR (HADDOCK)	513+03.78 P.O.T. CL	801,152.89	8,670,548.02
M-4 CALCULATED POINT	515+01.49 P.O.T. CL	801,166.67	8,670,745.08
M-5 CALCULATED POINT	517+45.30 P.O.T. CL	801,183.69	8,670,988.46
M-6 CALCULATED POINT	520+19.27 P.O.T. CL	801,202.80	8,671,251.76
M-7 RAILROAD SPIKE (FLOWERS)	522+93.24 P.O.T. CL	801,221.92	8,671,535.05
M-8 ALUMINUM CAP (HADDOCK)	525+67.23 P.O.T., 0.04' LT	801,241.07	8,671,808.39
M-9 RAILROAD SPIKE (HARRIS)	527+02.27 P.O.T. CL	801,250.45	8,671,943.10
M-10 5/8" REBAR (FLOWERS)	528+27.29 P.O.T. CL	801,259.17	8,672,067.81
M-11 CALCULATED SOUTH 1/4 CORNER SECTION 2	530+97.18 P.O.T. CL	801,277.99	8,672,337.04

SURVEY NARRATIVE

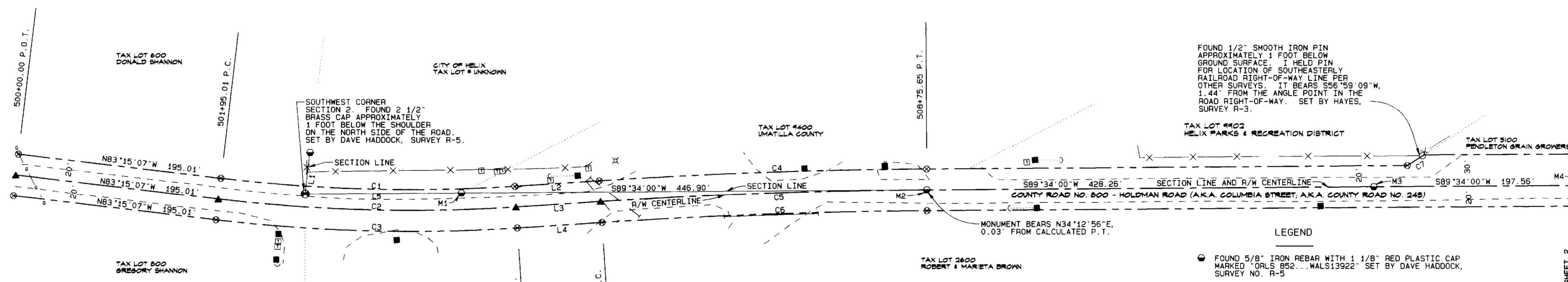
THE PURPOSE OF THIS SURVEY WAS TO MONUMENT A PORTION OF COUNTY ROAD NO. 800 FOR LEGALIZATION PURPOSES AT THE REQUEST OF THE UMATILLA COUNTY BOARD OF COMMISSIONERS. THE BRIDGE OVER GREASEWOOD CREEK IS SCHEDULED TO BE REPLACED WITH HRR FUNDS AND RIGHT-OF-WAY LOCATION NEEDS TO BE CONFIRMED OR ESTABLISHED SO ADDITIONAL RIGHT-OF-WAY CAN BE OBTAINED ON THE NORTH SIDE OF THE BRIDGE.

AT LEAST ONE OLDER SURVEY SHOWED A RIGHT-OF-WAY WIDTH OF 60 FEET. HOWEVER, THE ROAD WAS ORIGINALLY ESTABLISHED AT A WIDTH OF 40 FEET (ROAD NO. 243) AND THEN THE PLATS OF THE ORIGINAL TOWN OF HELIX AND RICHMOND'S ADDITION ADDED AN ADDITIONAL 10 FEET ON THE NORTH SIDE. MANY DEEDS ON THE SOUTH SIDE OF THE ROAD ALSO VERIFY THE 40-FOOT WIDTH. THE 30-FOOT WIDTH ON THE NORTH SIDE OF THE ROAD WAS CONTINUED WEST TO THE OLD RAILROAD RIGHT-OF-WAY LINE. THIS SURVEY WAS PERFORMED TO VERIFY THE LOCATION OF THE RAILROAD RIGHT-OF-WAY LINE AND TO ESTABLISH THE LOCATION OF THE SOUTH 1/4 CORNER OF SECTION 2, AS CAN BE SEEN, THE TRAVELED ROAD DOESN'T FOLLOW THE SECTION LINE VERY WELL NEAR THE SOUTHWEST CORNER OF THE SECTION. THE ROAD WILL AT SOME POINTS NEED TO BE SURVEYED WEST OF WHERE IT STOPPED IN THIS SURVEY, POSSIBLY AFTER MORE OF THE G.L.O. CORNERS ARE REMONUMENTED.

THE BEARING OF S89°34'00"W SHOWN ALONG THE TANGENT SECTION OF THE ROAD DOESN'T TAKE INTO ACCOUNT THE SLIGHT VARIANCE BETWEEN THE MONUMENTS AS ACTUALLY MEASURED. THE DISTANCES SHOWN DO REFLECT THE ACTUAL MEASUREMENTS. BY HOLDING A STRAIGHT LINE, MY MEASUREMENTS SHOWED THE MAXIMUM VARIANCE OF THE FOUND MONUMENTS NORTH OR SOUTH OF THE LINE WAS ONLY 0.04', WHICH IS MEANINGLESS. THE ACTUAL MEASURED BEARINGS AND DISTANCES BETWEEN THE FOUND MONUMENTS ARE SHOWN IN A SEPARATE TABLE.

THIS SURVEY WAS PERFORMED USING A SOKKIA RADIAN GPS SYSTEM OPERATED IN RTK MODE. THE BASE WAS SET ON THIRD-ORDER TRI-STATION HELIX AND THE STATE PLANE COORDINATES SHOWN WERE BASED ON TIES TO THAT STATION. MONUMENTS WERE TIED THREE SEPARATE TIMES AND THE POSITIONS WERE AVERAGED. GRID BEARINGS WERE ROTATED 3°34'00" CLOCKWISE TO THE BEARING OF S89°34'00"W ALONG THE SOUTH LINE OF SECTION 2 AS PER RECENT SURVEYS BY DAVE HADDOCK AND OTHERS. GRID DISTANCES WERE MULTIPLIED BY A COMBINED SCALE AND ELEVATION FACTOR OF 1.00011799 (BASED ON AN AVERAGE PROJECT ELEVATION OF 1610 FEET) TO OBTAIN GROUND DISTANCES SHOWN.

IT SHOULD BE NOTED THAT THE ACTUAL TRUE BEARINGS OF THE SOUTH LINE OF SECTION 2 IS APPROXIMATELY S87°18'16"W.



RECORD DIMENSIONS, SURVEY R-4:
M8 TO M9 - EAST 135.00'
M9 TO M11 - EAST 395.00'

RECORD DIMENSIONS, SURVEY R-5:
M1 TO M2 - N89°34'00"E 446.85'
M2 TO M3 - S89°34'00"W 428.31'
M3 TO M4 - N89°34'00"E 260.01'
M4 TO M5 - S89°34'00"W 270.02'

RECORD DIMENSIONS, SURVEYS R-6, R-7, AND R-8:
SW CORNER SECTION 2 TO M2 - N89°34'00"E 596.44'
M2 TO M3 - S89°34'00"W 428.31'
M3 TO M4 - S89°34'00"W 1263.58'
M4 TO M5 - S89°34'00"W 260.01'
M5 TO M6 - S89°34'00"W 270.02'

RECORD DIMENSIONS, SURVEY R-9:
SOUTHWEST CORNER SECTION 2 TO M3 - S89°34'00"W 1024.49'
M3 TO M4 - S89°34'00"W 1263.58'
M4 TO M5 - S89°34'00"W 270.02'
M5 TO M6 - S89°34'00"W 274.00'
M6 TO M7 - S89°34'00"W 274.00'
M7 TO M8 - S89°34'00"W 274.00'
M8 TO M9 - S89°34'00"W 274.02'
M9 TO M10 - S89°34'00"W 260.01'

RECORD DIMENSIONS, SURVEY R-10:
SOUTHWEST CORNER SECTION 2 TO M5 - S89°34'00"W 1465.28'
M5 TO M6 - S89°34'00"W 548.00'
M6 TO M7 - S89°34'00"W 274.02'
M7 TO M8 - S89°34'00"W 274.02'
M8 TO M9 - S89°33'22"W 260.10'

MEASURED VALUES BETWEEN FOUND MONUMENTS OR BETWEEN FOUND MONUMENTS AND CALCULATED POSITIONS

FROM POINT TO POINT	BEARING	DISTANCE
SW CORNER SECTION 2 TO M2	N89°33'51"E	596.49'
SW CORNER SECTION 2 TO M3	N89°34'00"E	1024.75'
SW CORNER SECTION 2 TO M5	N89°34'00"E	1466.31'
M1 TO M2	N89°34'19"E	446.90'
M2 TO M3	N89°34'13"E	428.26'
M3 TO M6	N89°34'00"E	715.56'
M3 TO M8	N89°33'53"E	1263.59'
M5 TO M7	N89°33'59"E	548.00'
M6 TO M7	N89°33'57"E	274.00'
M7 TO M8	N89°33'30"E	274.03'
M8 TO M9	N89°34'59"E	135.05'
M8 TO M10	N89°34'35"E	260.08'
M9 TO M11	N89°34'03"E	394.95'
M10 TO M11	N89°34'00"E	269.92'

SURVEY RECORDS

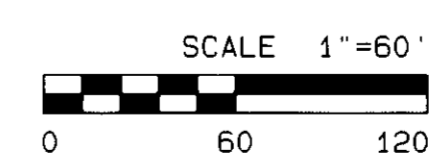
- R-1 PLAT OF THE ORIGINAL TOWN OF HELIX
 - R-2 PLAT OF RICHMOND'S ADDITION TO HELIX
 - R-3 1954 SURVEY FOR KERR GIFFORD & CO., INC. BY F. B. HAYES, SURVEY NO. G-1132-B
 - R-4 1980 SURVEY FOR JAMES JACKSON BY WAYNE HARRIS, SURVEY NO. R-117-B
 - R-5 BOUNDARY ADJUSTMENT SURVEY BY DAVE HADDOCK, SURVEY NO. 99-299-B
 - R-6 PARTITION PLAT NO. 1999-64 BY DAVE HADDOCK, SURVEY NO. 99-313-B
 - R-7 PARTITION PLAT NO. 2000-59 BY DAVE HADDOCK, SURVEY NO. 00-272-B
 - R-8 PARTITION PLAT NO. 2001-29 BY DAVE HADDOCK, SURVEY NO. 01-98-B
 - R-9 BOUNDARY ADJUSTMENT SURVEY BY GREG FLOWERS, SURVEY NO. 01-162-B
 - R-10 SURVEY FOR MERVIN SWERINGEN BY STEVE HADDOCK, SURVEY NO. 02-191-B
- ROAD RECORDS
- PLAT AND FIELD NOTES OF COUNTY ROAD NO. 243 BY J. H. RALEY, COUNTY SURVEYOR, DATED 1873
 - PLAT AND FIELD NOTES OF COUNTY ROAD NO. 131 DATED 1882
 - PLAT OF HAVANNA - HELIX HIGHWAY DATED NOVEMBER, 1923

LINE TABLE

LINE NO.	BEARING	DISTANCE
L1	N06°38'46"E (N06°40'32"E, R-5 THROUGH R-8)	39.73' (39.72', R-5)
L2	N86°14'35"E	81.36'
L3	N86°14'35"E	81.36'
L4	N86°14'35"E	81.36'
L5	S89°34'00"W (S89°32'28"W, MONUMENT TO MONUMENT) (S89°34'00"W, R-5)	149.59' (149.59', R-5)

CURVE TABLE

CURVE NO.	DELTA	RADIUS	ARC LENGTH	CHORD BEARING	CHORD LENGTH
C1	10°30'17"	1539.51'	282.26'	S88°30'17"E	281.86'
C2	10°30'17"	1559.51'	285.93'	S88°30'17"E	285.53'
C3	10°30'17"	1579.51'	289.59'	S88°30'17"E	289.19'
C4	03°19'23"	5422.63'	314.51'	N87°54'18"E	314.47'
C5	03°19'23"	5402.63'	313.35'	N87°54'18"E	313.31'
C6	03°19'23"	5382.63'	312.19'	N87°54'18"E	312.15'
C7	00°25'45"	2492.01'	18.67'	N57°11'02"E	18.67'



LEGEND

- FOUND 5/8" IRON REBAR WITH 1 1/8" RED PLASTIC CAP MARKED "ORLS 852...WALS13922" SET BY DAVE HADDOCK, SURVEY NO. R-5
- FOUND SECTION MONUMENT AS NOTED
- FOUND OTHER MONUMENT AS NOTED
- ▲ SET RAILROAD SPIKE STAMPED "LS2627" WITH PUNCH MARK AT ROAD SURFACE
- ⊙ CALCULATED POINT ONLY - NOTHING FOUND OR SET
- POWER POLE
- GUY WIRE AND ANCHOR
- TELEPHONE PEDESTAL
- ⊗ FIRE HYDRANT
- ⊠ CATCH BASIN
- ▲ WATER VALVE
- ⊕ WATER METER
- BURIED GAS LINE
- R/W LINE
- R/W CENTERLINE
- EDGE OF ROAD
- FENCE
- CULVERT
- GUARDRAIL
- SIDEWALK

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

COUNTY ROAD NO. 800 LEGALIZATION SURVEY
HOLDMAN ROAD

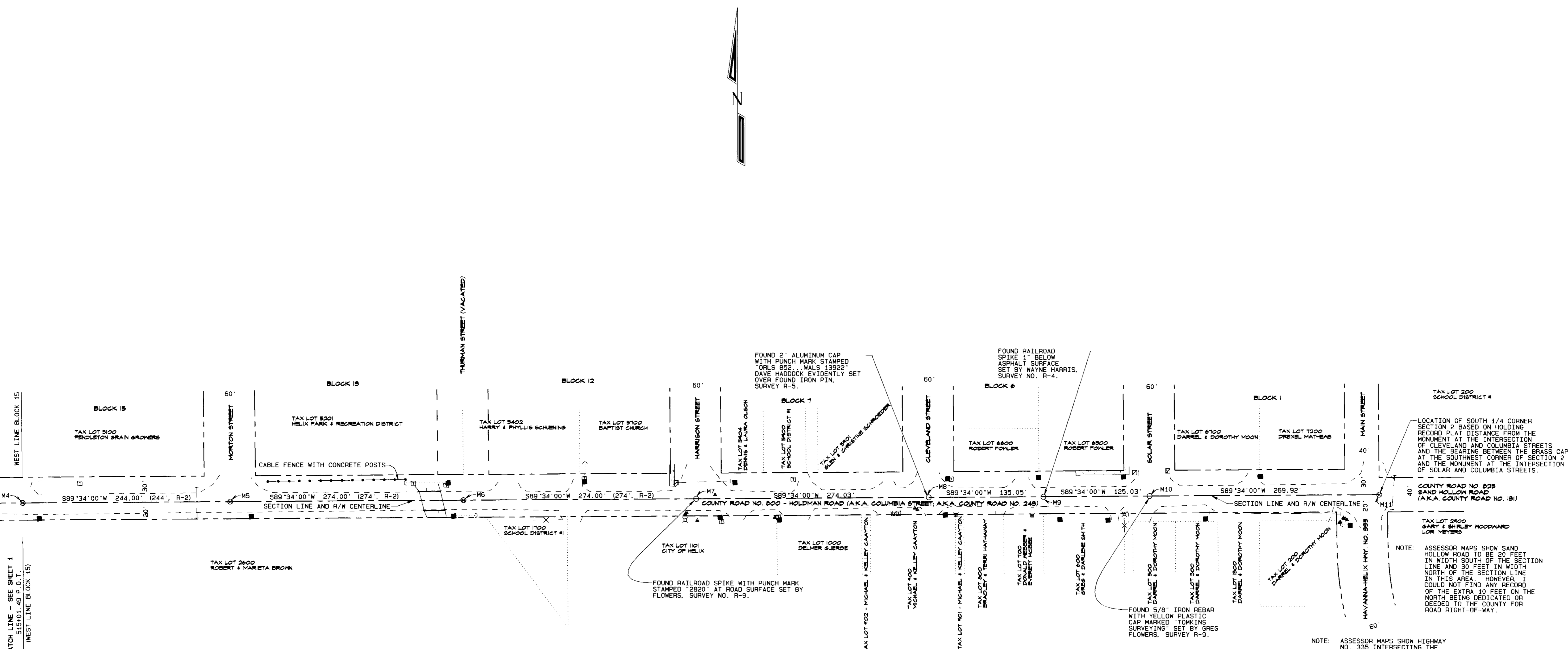
LOCATED IN SECTIONS 2, 3, 10, AND 11
TOWNSHIP 4 NORTH, RANGE 33 E.W.M.

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

DATE OF SURVEY: JULY, 2004 SHEET 1 OF 2

RECEIVED BY
Umatilla County Surveyors
Date 7-04
Rec'd by KK
No. 04-1360

Holdman Road Monumentation/Legalization Survey



MATCH LINE - SEE SHEET 1
545401.49 P.O.T.
(WEST LINE BLOCK 15)

LOCATION OF SOUTH 1/4 CORNER SECTION 2 BASED ON HOLDING RECORD PLAT DISTANCE FROM THE MONUMENT AT THE INTERSECTION OF CLEVELAND AND COLUMBIA STREETS AND THE BEARING BETWEEN THE BRASS CAP AT THE SOUTHWEST CORNER OF SECTION 2 AND THE MONUMENT AT THE INTERSECTION OF SOLAR AND COLUMBIA STREETS.

NOTE: ASSESSOR MAPS SHOW SAND HOLLOW ROAD TO BE 20 FEET IN WIDTH SOUTH OF THE SECTION LINE AND 30 FEET IN WIDTH NORTH OF THE SECTION LINE IN THIS AREA. HOWEVER, I COULD NOT FIND ANY RECORD OF THE EXTRA 10 FEET ON THE NORTH BEING DEDICATED OR DEEDED TO THE COUNTY FOR ROAD RIGHT-OF-WAY.

NOTE: ASSESSOR MAPS SHOW HIGHWAY NO. 335 INTERSECTING THE COUNTY ROAD CENTERED ON THE 1/4 CORNER. HOWEVER, RIGHT-OF-WAY MAPS SHOW THE CENTERLINE LINED UP WITH THE CENTERLINE OF MAIN STREET (20' WEST OF THE 1/4 CORNER).

- RECORD DIMENSIONS, SURVEY R-4:
- M8 TO M9 - EAST 135.00'
 - M9 TO M11 - EAST 395.00'
- RECORD DIMENSIONS, SURVEY R-5:
- M1 TO M2 - N89°34'00"E 446.85'
 - M2 TO M3 - S89°34'00"W 428.31'
 - M3 TO M4 - S89°34'00"W 274.00'
 - M4 TO M5 - N89°34'00"E 260.01'
 - M5 TO M6 - S89°34'00"W 270.02'
- RECORD DIMENSIONS, SURVEYS R-6, R-7, AND R-8:
- SW CORNER SECTION 2 TO M2 - N89°34'00"E 596.44'
 - M2 TO M3 - S89°34'00"W 428.31'
 - M3 TO M4 - S89°34'00"W 274.00'
 - M4 TO M5 - N89°34'00"E 260.01'
 - M5 TO M6 - S89°34'00"W 270.02'
- RECORD DIMENSIONS, SURVEY R-9:
- SOUTHWEST CORNER SECTION 2 TO M5 - S89°34'00"W 1024.49'
 - M5 TO M6 - S89°34'00"W 1263.58'
 - M6 TO M7 - S89°34'00"W 274.00'
 - M7 TO M8 - S89°34'00"W 274.00'
 - M8 TO M9 - S89°34'00"W 260.01'
 - M9 TO M10 - S89°34'00"W 260.01'
- RECORD DIMENSIONS, SURVEY R-10:
- SOUTHWEST CORNER SECTION 2 TO M5 - S89°34'00"W 1466.28'
 - M5 TO M6 - S89°34'00"W 548.00'
 - M6 TO M7 - S89°34'00"W 274.00'
 - M7 TO M8 - S89°34'00"W 274.00'
 - M8 TO M9 - S89°33'22"W 260.10'

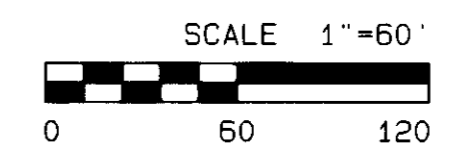
MEASURED VALUES BETWEEN FOUND MONUMENTS OR BETWEEN FOUND MONUMENTS AND CALCULATED POSITIONS

FROM POINT TO POINT	BEARING	DISTANCE
SW CORNER SECTION 2 TO M2	N89°33'51"E	596.49'
SW CORNER SECTION 2 TO M3	N89°34'00"E	1024.75'
SW CORNER SECTION 2 TO M5	N89°34'00"E	1466.31'
M1 TO M2	N89°34'19"E	446.90'
M2 TO M3	N89°34'13"E	428.26'
M3 TO M6	N89°34'00"E	715.56'
M3 TO M8	N89°33'53"E	1263.59'
M5 TO M7	N89°33'59"E	548.00'
M6 TO M7	N89°33'57"E	274.00'
M7 TO M8	N89°33'30"E	274.03'
M8 TO M9	N89°34'59"E	135.05'
M8 TO M10	N89°34'35"E	260.08'
M9 TO M11	N89°34'03"E	394.95'
M10 TO M11	N89°34'00"E	269.92'

- SURVEY RECORDS
- R-1 PLAT OF THE ORIGINAL TOWN OF HELIX
 - R-2 PLAT OF RICHMOND'S ADDITION TO HELIX
 - R-3 1954 SURVEY FOR KERR GIFFORD & CO., INC. BY F. B. HAYES, SURVEY NO. 0-1132-B
 - R-4 1980 SURVEY FOR JAMES JACKSON BY WAYNE HARRIS, SURVEY NO. R-117-B
 - R-5 BOUNDARY ADJUSTMENT SURVEY BY DAVE HADDOCK, SURVEY NO. 99-299-B
 - R-6 PARTITION PLAT NO. 1999-64 BY DAVE HADDOCK, SURVEY NO. 99-313-B
 - R-7 PARTITION PLAT NO. 2000-59 BY DAVE HADDOCK, SURVEY NO. 00-272-B
 - R-8 PARTITION PLAT NO. 2001-29 BY DAVE HADDOCK, SURVEY NO. 01-88-B
 - R-9 BOUNDARY ADJUSTMENT SURVEY BY GREG FLOWERS, SURVEY NO. 01-162-B
 - R-10 SURVEY FOR MERVIN SWEARINGEN BY STEVE HADDOCK, SURVEY NO. 02-191-B
- ROAD RECORDS
- PLAT AND FIELD NOTES OF COUNTY ROAD NO. 243 BY J. H. RALEY, COUNTY SURVEYOR, DATED 1879
 - PLAT AND FIELD NOTES OF COUNTY ROAD NO. 131 DATED 1882
 - PLAT OF HAVANNA - HELIX HIGHWAY DATED NOVEMBER, 1923

- LEGEND
- FOUND 5/8" IRON REBAR WITH 1 1/8" RED PLASTIC CAP MARKED "ORLS 852...WALS13922" SET BY DAVE HADDOCK, SURVEY NO. R-5
 - ⊕ FOUND SECTION MONUMENT AS NOTED
 - FOUND OTHER MONUMENT AS NOTED
 - ▲ SET RAILROAD SPIKE STAMPED "LS2627" WITH PUNCH MARK AT ROAD SURFACE
 - ⊗ CALCULATED POINT ONLY - NOTHING FOUND OR SET
 - POWER POLE
 - GUY WIRE AND ANCHOR
 - TELEPHONE PEDESTAL
 - ⊗ FIRE HYDRANT
 - CATCH BASIN
 - ▲ WATER VALVE
 - ⊗ WATER METER
 - BURIED GAS LINE
 - R/W LINE
 - R/W CENTERLINE
 - EDGE OF ROAD
 - FENCE
 - CULVERT
 - GUARDRAIL
 - SIDEWALK

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



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

COUNTY ROAD NO. 800 LEGALIZATION SURVEY
 HOLDMAN ROAD

LOCATED IN SECTIONS 2, 3, 10, AND 11
 TOWNSHIP 4 NORTH, RANGE 33 E.W.M.

DATE OF SURVEY: JULY, 2004 SHEET 2 OF 2

RECEIVED BY
 Umatilla County Surveyor
 Date: 7-04
 Rec'd by: KR
 No. 04-136-C