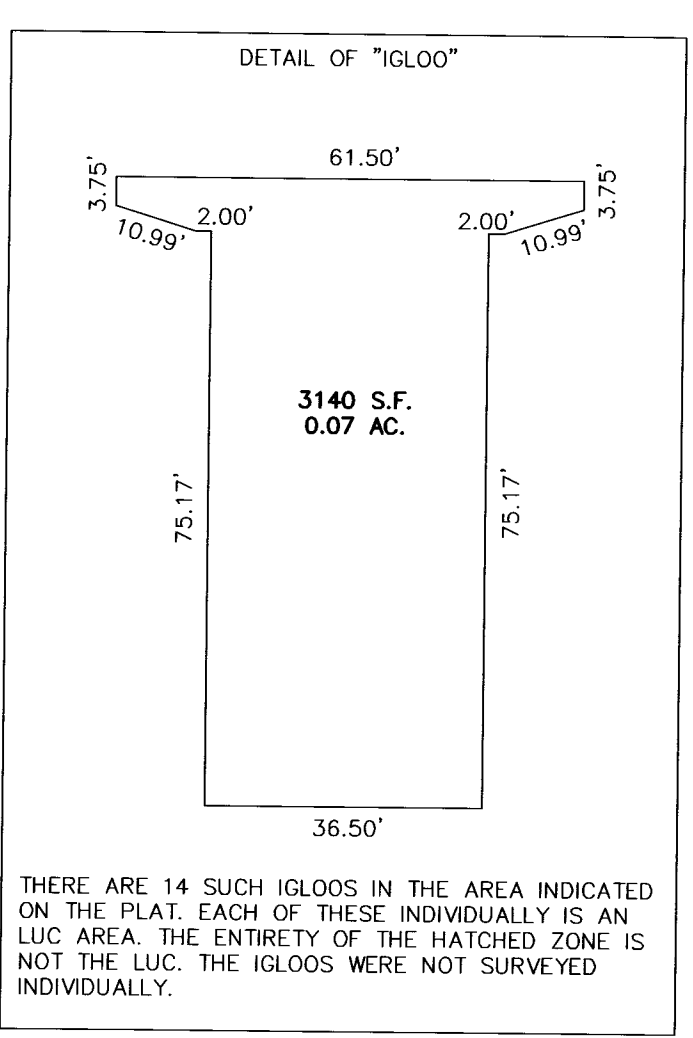
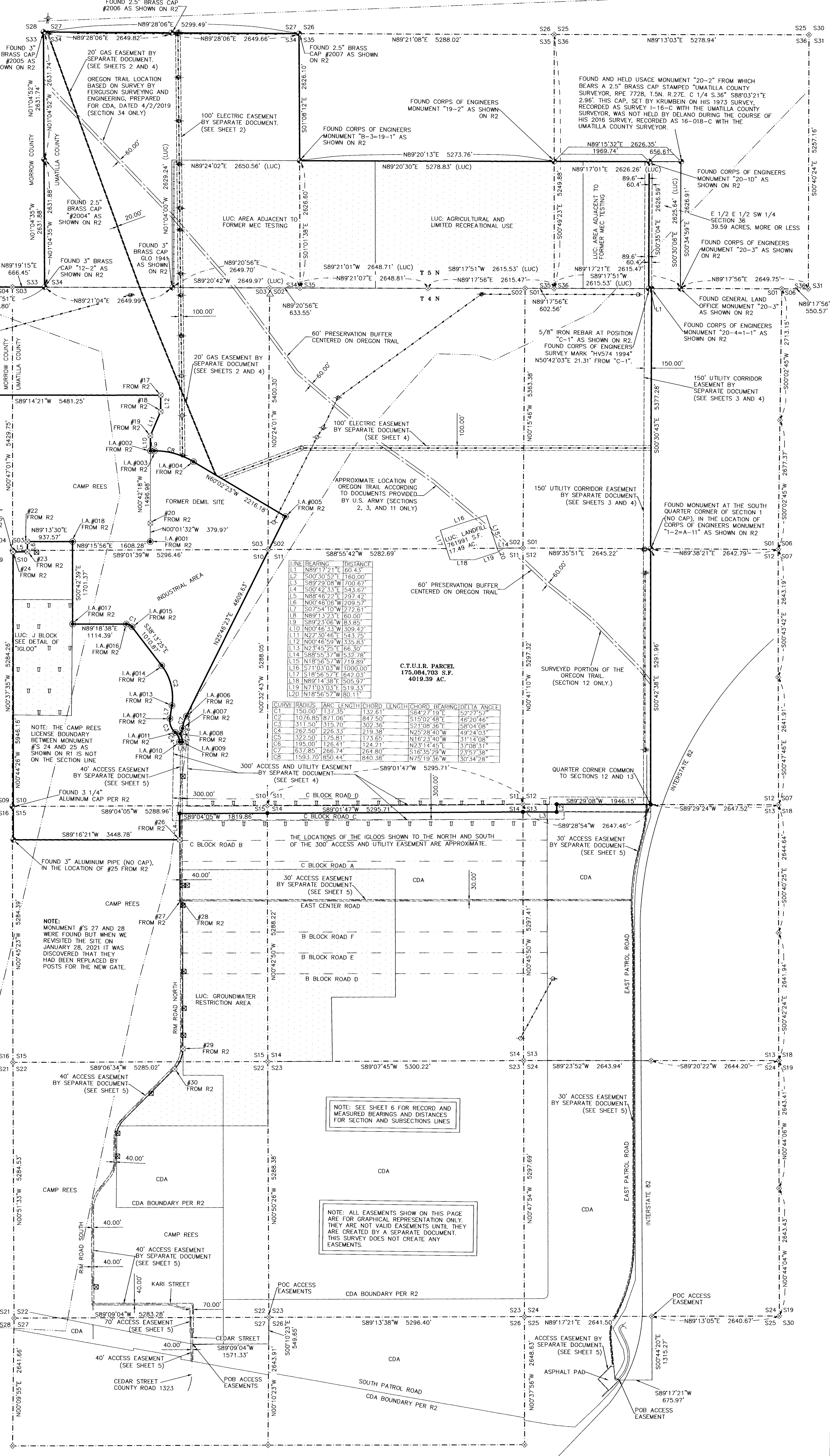


**SURVEYOR'S NARRATIVE**

THIS SURVEY WAS PERFORMED AT THE REQUEST OF THE CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION. THE BOUNDARY SURVEY TITLED "OREGON MILITARY DEPARTMENT CAMP REES LICENSE BOUNDARY" AND THE SURVEY TITLED "COLUMBIA DEVELOPMENT AUTHORITY UMATILLA DEPOT SURVEY", SEE REFERENCE DOCUMENTS FOR DETAILS, WERE BOTH USED TO ESTABLISH THE SECTIONS WHERE THE PROPERTY LIES AND THE RECORD BOUNDARY LINES OF AGREEMENT WITH THE DIMENSIONS GIVEN IN THE RECORD DOCUMENTS. A MAJORITY OF THE RECORD MONUMENTS WERE RECOVERED AND UPON INSPECTION THESE EXHIBIT 1 TO RESOLUTION NO. 19-032, PROVIDED BY THE CLIENT, THE BASIS OF THIS SURVEY, BEING THE BOUNDARY SURVEY TITLED "OREGON MILITARY DEPARTMENT CAMP REES LICENSE BOUNDARY" RECORDED AS SURVEY NO. 14-119-B BY THE UMATILLA COUNTY SURVEYOR ON 8/20/2014 IN MORROW COUNTY, OREGON AND AS SURVEY NO. 2014-1712C BY THE MORROW COUNTY SURVEYOR ON 8/20/2014 IN MORROW COUNTY, OREGON, IS IN US SURVEY FEET AND WE HAVE CARRIED THAT CONVENTION INTO THIS SURVEY IN ORDER IT KEEP IT CONSISTENT WITH THAT SURVEY. THIS SURVEY WAS PERFORMED AS A REAL TIME KINEMATIC SURVEY USING SPECTRA PRECISION SP80 NETWORK RECEIVERS WITH HORIZONTAL PRECISION OF BMM +/- 1 PPM AND VERTICAL PRECISION OF 15MM +/- 1 PPM. THE MONUMENTS SHOWN WERE LAST VISITED IN AUGUST OF 2019.

**CDA WILDLIFE REFUGE SURVEY**  
 LOCATED IN SECTIONS 1, 2, 3, 4, 10, 11, 12, AND 15, TOWNSHIP 4 NORTH, RANGE 27 EAST AND SECTIONS 34, 35, AND 36, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE MERIDIAN

- LEGEND AND ABBREVIATIONS**
- MONUMENT FOUND AS DESCRIBED
  - FOUND 3 1/4" ALUMINUM CAP STAMPED "CAMP REES OREGON MILITARY DEPT MON #14 PLS 49865"
  - FOUND 3" ALUMINUM CAP STAMPED "INDUSTRIAL AREA" AS SHOWN ON R2
  - SET 5/8"x30" IRON REBAR WITH CAP MARKED
  - "W19619/0R02820"
  - GUY WIRE
  - POWER POLE
  - UTILITY POLE
  - TELEPHONE RISER
  - IGLOO
  - COMPUTED POSITION FROM R2 VIA COORDINATE DATA
  - C.T.U.I.R. PROPERTY LINE
  - CDA PROPERTY LINE
  - SECTION LINE
  - NATURAL GAS LINE
  - POWER LINE
  - EASEMENT
  - FENCE
  - CENTERLINE
  - COYOTE COULEE (APPROXIMATE)
  - CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
  - COLUMBIA DEVELOPMENT AUTHORITY
  - LAND USE CONTROL
  - LUC AREA
  - USACE
  - US ARMY CORPS OF ENGINEERS



**LINE BEARING DISTANCE**

L1	N89°17'21\"	60.43'
L2	S00°30'52\"	160.00'
L3	S89°29'08\"	700.87'
L4	S00°42'33\"	1543.87'
L5	N88°46'22\"	797.42'
L6	N00°46'06\"	209.57'
L7	S07°54'10\"	1722.61'
L8	N89°13'23\"	60.00'
L9	S89°23'06\"	83.85'
L10	N00°46'33\"	309.42'
L11	N22°30'46\"	1543.75'
L12	N00°46'59\"	335.83'
L13	N2°34'52\"	66.30'
L14	S89°15'37\"	1532.61'
L15	N18°56'57\"	719.89'
L16	S71°03'03\"	1000.00'
L17	S18°56'57\"	642.03'
L18	N89°14'38\"	505.37'
L19	N71°03'03\"	519.33'
L20	N18°56'57\"	80.11'

**CURVE RADIUS ARC LENGTH CHORD LENGTH CHORD BEARING DELTA ANGLE**

C1	150.00'	137.35'	132.81'	S84°27'19\"	52°27'52\"
C2	1076.85'	871.06'	847.50'	S15°02'48\"	45°20'46\"
C3	311.50'	315.70'	302.36'	S71°08'36\"	S8°04'08\"
C4	282.50'	226.33'	219.38'	N25°28'40\"	49°24'03\"
C5	322.60'	175.81'	173.85'	N16°23'40\"	S11°14'09\"
C6	195.00'	126.41'	124.21'	N23°14'45\"	S7°08'31\"
C7	537.85'	266.74'	264.80'	S16°35'29\"	S25°37'38\"
C8	1523.70'	850.44'	840.36'	N75°19'36\"	S07°34'28\"

**REFERENCE DOCUMENTS**

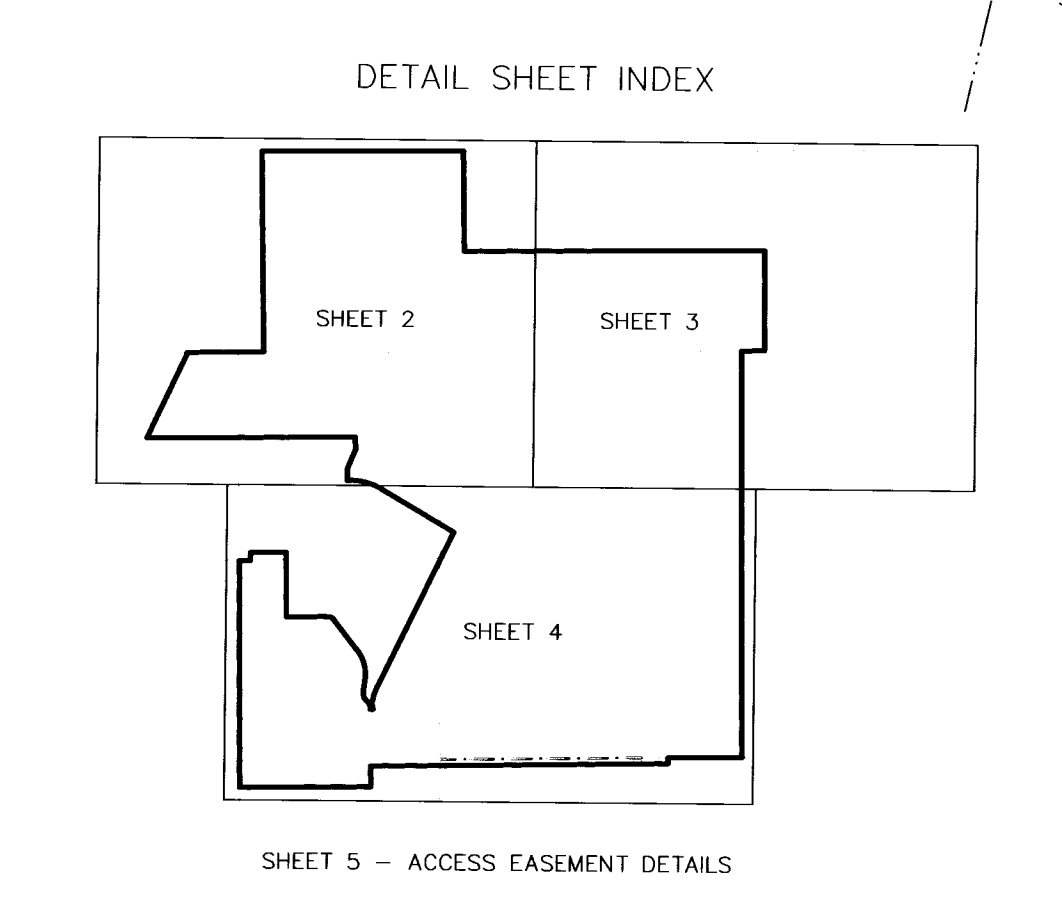
(R1) BOUNDARY SURVEY TITLED "OREGON MILITARY DEPARTMENT CAMP REES LICENSE BOUNDARY" RECORDED AS SURVEY NO. 14-119-B BY THE UMATILLA COUNTY SURVEYOR ON 8/20/2014 IN UMATILLA COUNTY, OREGON AND AS SURVEY NO. 2014-1712C BY THE MORROW COUNTY SURVEYOR ON 8/20/2014 IN MORROW COUNTY, OREGON.

(R2) SURVEY TITLED "COLUMBIA DEVELOPMENT AUTHORITY UMATILLA DEPOT SURVEY" RECORDED AS SURVEY NO. 16-018-C BY THE UMATILLA COUNTY SURVEYOR ON 1/27/2016 IN UMATILLA COUNTY, OREGON. (THE DISTANCES SHOWN ON THIS REFERENCE SURVEY ARE GRID DISTANCES. THE DISTANCES SHOWN HEREON ARE GROUND DISTANCES BY THE COMBINED FACTOR OF 1.00003018222671.)

(R3) EXHIBIT MAP OF REMNANTS OF THE OREGON TRAIL PREPARED BY FERGUSON SURVEYING AND ENGINEERING, DATED 4/02/2019. PROVIDED BY THE UNITED STATES ARMY CORPS OF ENGINEERS.

(R4) DOCUMENTS PROVIDED BY THE US ARMY CORPS OF ENGINEERS CONTAINING THE LEGAL DESCRIPTIONS OF LAND USE CONTROL AREAS AFFECTING LAND SHOWN ON THIS SURVEY. THESE DESCRIBE THE "IGLOOS" (igloo\_1751.docx), THE "LANDFILL RESTRICTION" (Landfill (NAD83).mxd, 002461.docx), THE "RESTRICTIVE USE AREA - CDA" (LUC - Groundwater Restriction Area CDA.mxd, 002405.docx), AND THE "SITE 39 NOTICE AREAS: ADJACENT TO FORMER MEC TESTING" (Adj-LUC-Site39.mxd, 002502.docx)

(R5) MAP TITLED "UMATILLA CHEMICAL DEPOT COLUMBIA DEVELOPMENT AUTHORITY PROPOSED USE", PLATE NUMBER EX-1, BY THE US ARMY CORPS OF ENGINEERS, SEATTLE DISTRICT, DATED 2/29/2016.



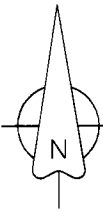
REGISTERED PROFESSIONAL LAND SURVEYOR  
 Greg E. Flowers  
 OREGON  
 JUNE 30, 1997  
 GREG E. FLOWERS  
 02820LS  
 RENEWS 12/31/2021  
 4/16/2021

RECEIVED BY  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-065-C



CLIENT: C.T.U.I.R.	PROJECT NO.: 67426.008	
SURVEYOR: GREG E. FLOWERS	DATE: 4/26/2021	
CALC BY: JLM	DRAWN BY: JLM	SCALE: 1"=100'
SECTION: AS SHOWN	TOWNSHIP: 4N8S	RANGE: 27 EAST
CITY: HERMISTON	COUNTY: UMATILLA	SHEET 1 OF 6

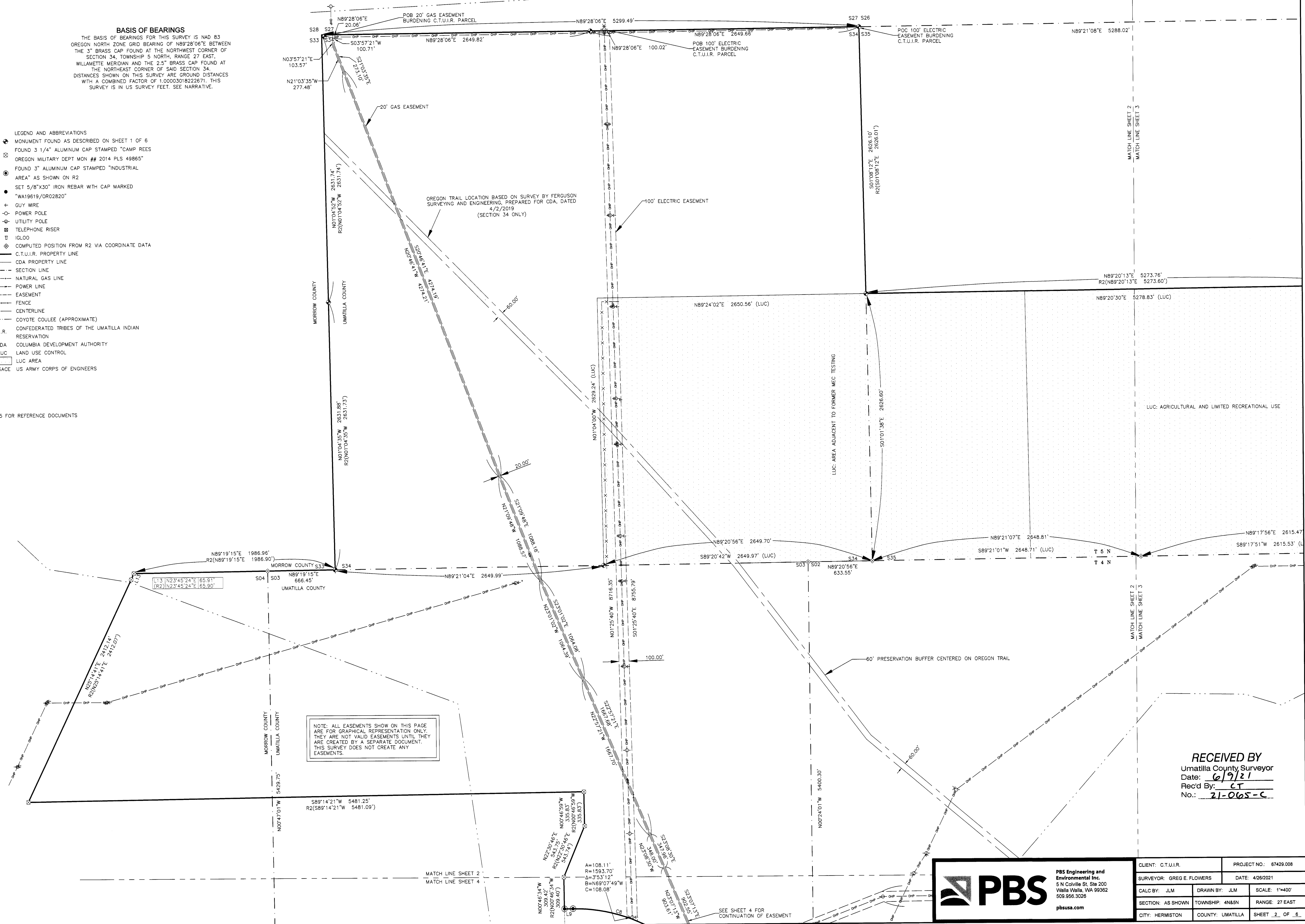
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**BASIS OF BEARINGS**  
 THE BASIS OF BEARINGS FOR THIS SURVEY IS NAD 83 OREGON NORTH ZONE GRID BEARING OF N89°28'06"E BETWEEN THE 3" BRASS CAP FOUND AT THE NORTHWEST CORNER OF SECTION 34, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE MERIDIAN AND THE 2.5" BRASS CAP FOUND AT THE NORTHEAST CORNER OF SAID SECTION 34. DISTANCES SHOWN ON THIS SURVEY ARE GROUND DISTANCES WITH A COMBINED FACTOR OF 1.00003018222671. THIS SURVEY IS IN US SURVEY FEET. SEE NARRATIVE.

- LEGEND AND ABBREVIATIONS**
- MONUMENT FOUND AS DESCRIBED ON SHEET 1 OF 6
  - ⊗ FOUND 3/4" ALUMINUM CAP STAMPED "CAMP REES"
  - ⊗ OREGON MILITARY DEPT MON ## 2014 PLS 49865
  - ⊗ FOUND 3" ALUMINUM CAP STAMPED "INDUSTRIAL AREA" AS SHOWN ON R2
  - SET 5/8"x30" IRON REBAR WITH CAP MARKED "WA19619/0R02820"
  - GUY WIRE
  - POWER POLE
  - UTILITY POLE
  - TELEPHONE RISER
  - IGL00
  - ⊗ COMPUTED POSITION FROM R2 VIA COORDINATE DATA
  - C.T.U.I.R. PROPERTY LINE
  - CDA PROPERTY LINE
  - SECTION LINE
  - NATURAL GAS LINE
  - POWER LINE
  - EASEMENT
  - FENCE
  - CENTERLINE
  - COYOTE COULEE (APPROXIMATE)
  - CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
  - CDA COLUMBIA DEVELOPMENT AUTHORITY
  - LUC LAND USE CONTROL
  - LUC AREA
  - USACE US ARMY CORPS OF ENGINEERS

NOTE: SEE SHEET 1 OF 5 FOR REFERENCE DOCUMENTS



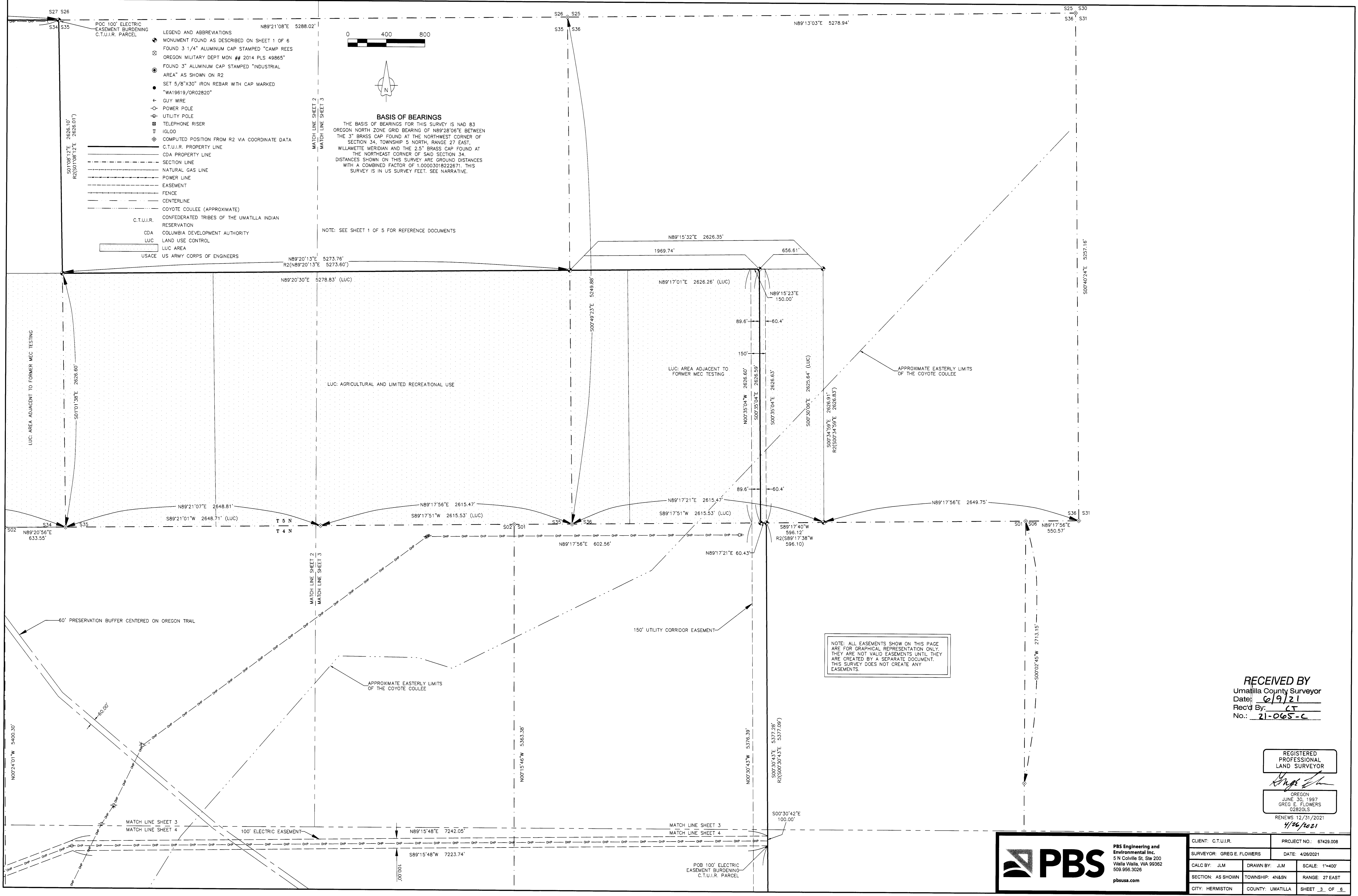
NOTE: ALL EASEMENTS SHOW ON THIS PAGE ARE FOR GRAPHICAL REPRESENTATION ONLY. THEY ARE NOT VALID EASEMENTS UNTIL THEY ARE CREATED BY A SEPARATE DOCUMENT. THIS SURVEY DOES NOT CREATE ANY EASEMENTS.

REGISTERED PROFESSIONAL LAND SURVEYOR  
 Greg E. Flowers  
 OREGON JUNE 30, 1997  
 GREG E. FLOWERS 02820LS  
 RENEWS 12/31/2021  
 4/16/2021

**PBS**  
 PBS Engineering and Environmental Inc.  
 5 N Colville St, Ste 200  
 Walla Walla, WA 99362  
 509.956.3026  
 pbsusa.com

CLIENT: C.T.U.I.R.	PROJECT NO.: 67428.008
SURVEYOR: GREG E. FLOWERS	DATE: 4/28/2021
CALC BY: JLM	DRAWN BY: JLM
SECTION: AS SHOWN	TOWNSHIP: 4N&S
CITY: HERMISTON	COUNTY: UMATILLA
SCALE: 1"=400'	RANGE: 27 EAST
SHEET 2 OF 6	

RECEIVED BY  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-0605-C



RECEIVED BY  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-065-C

REGISTERED  
 PROFESSIONAL  
 LAND SURVEYOR  
  
 OREGON  
 JUNE 30, 1997  
 GREG E. FLOWERS  
 02820LS  
 RENEWS 12/31/2021  
 4/26/2021

**PBS** Engineering and Environmental Inc.  
 5 N Colville St, Ste 200  
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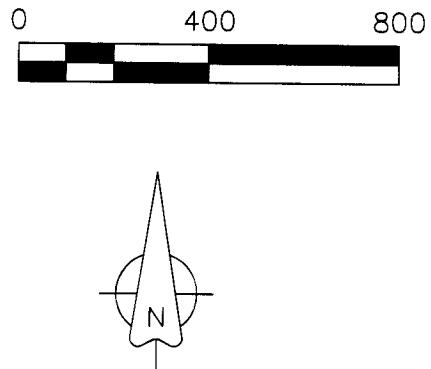
CLIENT: C.T.U.I.R.	PROJECT NO.: 67428.008
SURVEYOR: GREG E. FLOWERS	DATE: 4/28/2021
CALC BY: JLM	DRAWN BY: JLM
SECTION: AS SHOWN	TOWNSHIP: 4N&8N
CITY: HERMISTON	COUNTY: UMATILLA
SCALE: 1"=400'	RANGE: 27 EAST
SHEET 3 OF 6	

- LEGEND AND ABBREVIATIONS
- MONUMENT FOUND AS DESCRIBED ON SHEET 1 OF 6
  - FOUND 3 1/4" ALUMINUM CAP STAMPED "CAMP REES"
  - OREGON MILITARY DEPT MON ## 2014 PLS 49865
  - FOUND 3" ALUMINUM CAP STAMPED "INDUSTRIAL AREA" AS SHOWN ON R2
  - SET 5/8"x30" IRON REBAR WITH CAP MARKED "WA19619/0R02820"
  - GUY WIRE
  - POWER POLE
  - UTILITY POLE
  - TELEPHONE RISER
  - IGLOO
  - COMPUTED POSITION FROM R2 VIA COORDINATE DATA
  - C.T.U.I.R. PROPERTY LINE
  - CDA PROPERTY LINE
  - SECTION LINE
  - NATURAL GAS LINE
  - POWER LINE
  - EASEMENT NOTE: SEE SHEET 1 OF 5 FOR REFERENCE DOCUMENTS
  - FENCE
  - CENTERLINE
  - COYOTE COULEE (APPROXIMATE)
  - CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
  - CDA COLUMBIA DEVELOPMENT AUTHORITY
  - LUC LAND USE CONTROL
  - USACE US ARMY CORPS OF ENGINEERS

**BASIS OF BEARINGS**  
 THE BASIS OF BEARINGS FOR THIS SURVEY IS NAD 83 OREGON NORTH ZONE GRID BEARING OF N89°28'06"E BETWEEN THE 3" BRASS CAP FOUND AT THE NORTHWEST CORNER OF SECTION 34, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE MERIDIAN AND THE 2.5" BRASS CAP FOUND AT THE NORTHEAST CORNER OF SAO SECTION 34. DISTANCES SHOWN ON THIS SURVEY ARE GROUND DISTANCES WITH A COMBINED FACTOR OF 1.00003018222671. THIS SURVEY IS IN US SURVEY FEET. SEE NARRATIVE.

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	150.00'	137.35'	132.61'	S84°27'19"E	52°27'57"
(R2)	1076.85'	871.06'	847.50'	S15°02'48"E	48°20'46"
C2	1076.85'	871.02'	847.47'	N15°02'48"W	48°20'39"
(R2)	311.50'	315.76'	302.36'	S27°10'46"E	58°04'08"
C3	311.50'	315.70'	302.36'	S27°08'34"E	58°04'04"
(R2)	282.50'	226.33'	219.38'	N25°28'40"W	49°24'03"
C4	282.50'	226.33'	219.38'	S25°28'37"E	49°24'00"
(R2)	322.50'	175.81'	173.64'	N16°23'40"W	31°14'08"
C5	322.50'	175.81'	173.64'	S16°23'40"E	31°14'07"
(R2)	195.00'	126.41'	124.21'	N23°14'45"E	37°08'31"
C6	195.00'	126.41'	124.21'	N23°14'58"E	37°08'23"
(R2)	637.85'	266.74'	264.80'	S16°35'29"W	23°57'38"
C7	637.85'	266.74'	264.80'	N16°35'26"E	23°57'36"
(R2)	1593.70'	850.44'	840.38'	N75°19'38"W	30°34'58"
C8	1593.70'	850.44'	840.38'	N75°19'35"W	30°34'25"
(R2)					

L1	S00°30'59"E	160.00'
L2	N89°42'38"E	297.42'
(R2)	N89°42'20"E	1297.40'
L3	N00°48'08"W	209.57'
(R2)	N00°48'02"W	209.58'
L4	N89°13'23"E	60.00'
(R2)	N89°13'23"E	60.00'
L5	S89°23'06"W	83.85'
(R2)	S89°23'12"W	83.84'



NOTE: ALL EASEMENTS SHOWN ON THIS PAGE ARE FOR GRAPHICAL REPRESENTATION ONLY. THEY ARE NOT VALID EASEMENTS UNTIL THEY ARE CREATED BY A SEPARATE DOCUMENT. THIS SURVEY DOES NOT CREATE ANY EASEMENTS.

RECEIVED BY  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-065-C

REGISTERED PROFESSIONAL LAND SURVEYOR

GREG E. FLOWERS  
 OREGON  
 JUNE 30, 1997  
 GREG E. FLOWERS  
 02820LS

RENEWS 12/31/2021  
 QUARTER CORNER COMMON TO SECTION 12 AND 13  
 POB 150' FOOT UTILITY CORRIDOR EASEMENT  
 BURDENING C.T.U.I.R.  
 POB 300' ACCESS AND UTILITY EASEMENT BURDENING C.T.U.I.R. PARCEL AND CDA PARCEL



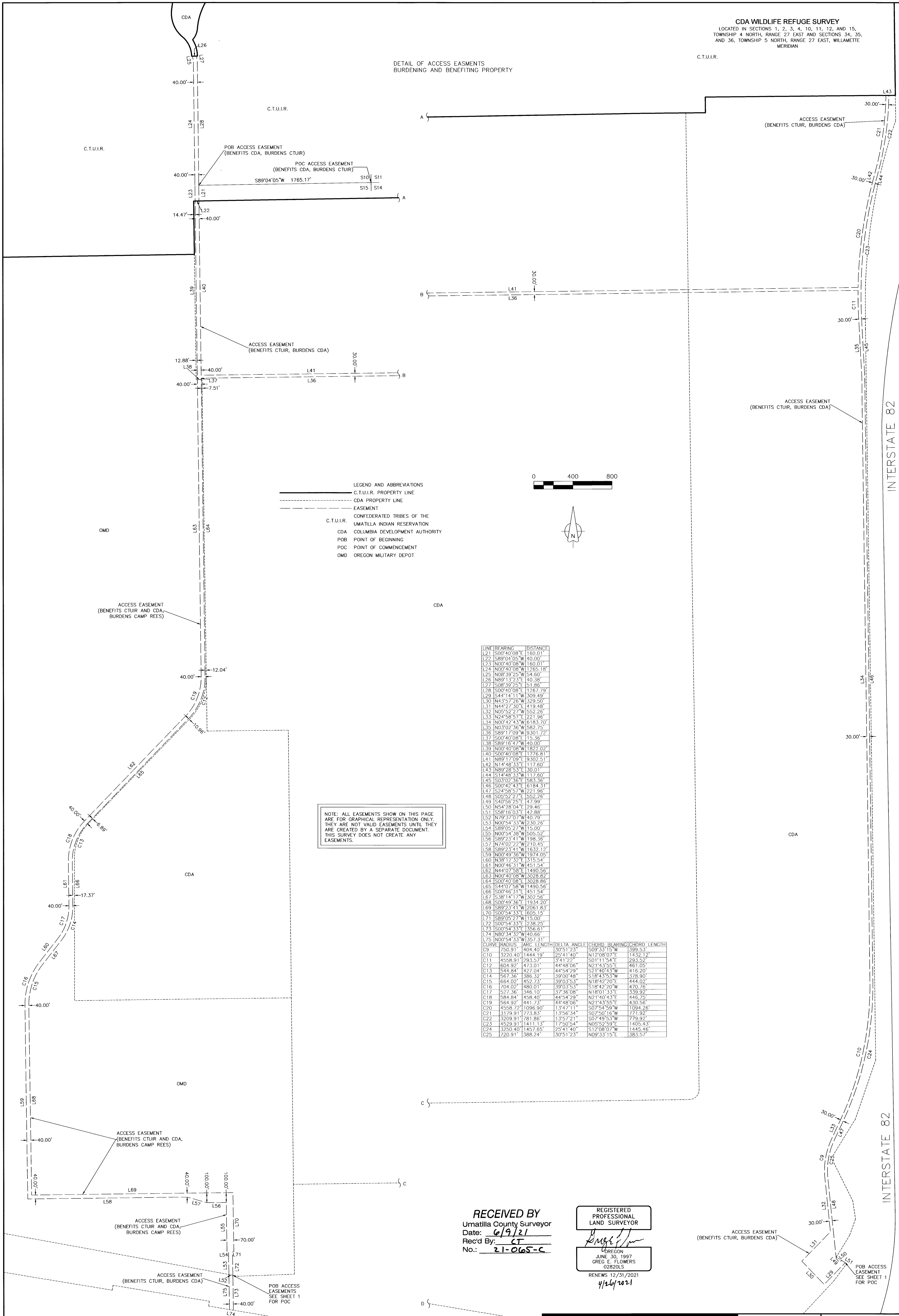
PBS Engineering and Environmental Inc.  
 5 N Coville St, Ste 200  
 Walla Walla, WA 99362  
 509.956.3028  
 pbsusa.com

CLIENT: C.T.U.I.R.	PROJECT NO.: 67429.008
SURVEYOR: GREG E. FLOWERS	DATE: 4/28/2021
CALC BY: JLM	DRAWN BY: JLM
SCALE: 1"=400'	RANGE: 27 EAST
CITY: HERMISTON	COUNTY: UMATILLA
SHEET 4 OF 6	

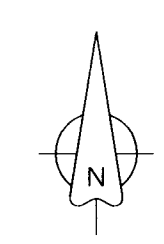
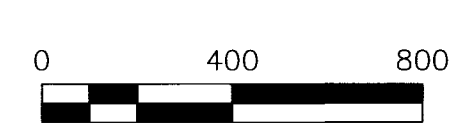
**CDA WILDLIFE REFUGE SURVEY**  
 LOCATED IN SECTIONS 1, 2, 3, 4, 10, 11, 12, AND 15,  
 TOWNSHIP 4 NORTH, RANGE 27 EAST AND SECTIONS 34, 35,  
 AND 36, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE  
 MERIDIAN

C.T.U.I.R.

DETAIL OF ACCESS EASEMENTS  
 BURDENING AND BENEFITING PROPERTY



- LEGEND AND ABBREVIATIONS**
- C.T.U.I.R. PROPERTY LINE
  - - - CDA PROPERTY LINE
  - - - EASEMENT
  - CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
  - CDA COLUMBIA DEVELOPMENT AUTHORITY
  - POB POINT OF BEGINNING
  - POC POINT OF COMMENCEMENT
  - OMD OREGON MILITARY DEPOT



NOTE: ALL EASEMENTS SHOW ON THIS PAGE ARE FOR GRAPHICAL REPRESENTATION ONLY. THEY ARE NOT VALID EASEMENTS UNTIL THEY ARE CREATED BY A SEPARATE DOCUMENT. THIS SURVEY DOES NOT CREATE ANY EASEMENTS.

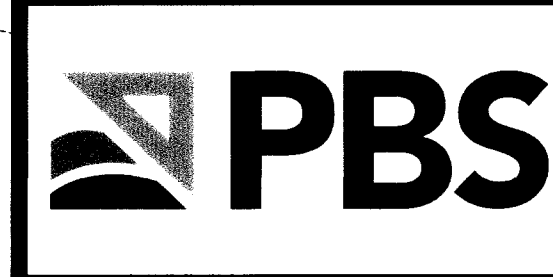
LINE	BEARING	DISTANCE
L21	S00°40'08"E	160.01'
L22	S89°04'05"W	40.00'
L23	N00°40'08"W	160.01'
L24	N00°40'08"W	1265.18'
L25	N08°39'25"W	54.60'
L26	N89°13'33"E	40.38'
L27	S06°39'25"E	51.86'
L28	S00°40'08"E	1267.79'
L29	S44°14'11"W	309.49'
L30	N43°57'26"W	329.50'
L31	N44°27'50"E	439.48'
L32	N05°52'27"W	552.26'
L33	N24°58'57"E	221.96'
L34	N00°42'43"W	6183.70'
L35	N03°02'36"W	582.75'
L36	S89°17'09"W	9301.72'
L37	S00°40'08"E	15.36'
L38	S89°15'41"W	40.00'
L39	N00°40'08"W	1822.02'
L40	S00°40'08"E	1726.81'
L41	N89°17'09"E	9302.51'
L42	N14°48'33"E	117.60'
L43	N89°28'53"E	30.01'
L44	S14°48'33"W	117.60'
L45	S00°40'08"E	583.36'
L46	S00°42'43"E	6184.31'
L47	S24°58'57"W	221.96'
L48	S05°52'27"E	552.26'
L49	S40°56'25"E	47.99'
L50	N54°28'04"E	29.46'
L51	S58°16'03"E	42.86'
L52	N78°17'01"W	40.79'
L53	N00°54'33"W	230.26'
L54	S89°05'27"W	15.00'
L55	N00°54'38"W	505.52'
L56	S89°23'41"W	198.36'
L57	N74°02'22"W	210.45'
L58	S89°23'41"W	1632.12'
L59	N00°40'38"W	1924.05'
L60	N38°12'32"E	315.54'
L61	N00°46'31"W	451.54'
L62	N44°07'58"E	1480.56'
L63	N00°40'08"W	3028.82'
L64	S00°40'08"E	3028.86'
L65	S44°07'58"W	1490.56'
L66	S00°46'31"E	451.54'
L67	S38°14'17"W	302.56'
L68	S00°49'36"E	1934.20'
L69	S89°23'41"W	2061.85'
L70	S00°54'33"E	605.15'
L71	S89°05'27"W	15.00'
L72	S00°54'33"E	238.25'
L73	S00°54'33"E	356.61'
L74	N80°34'32"W	40.66'
L75	N00°54'33"W	357.33'

CURVE	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD LENGTH
C9	750.91'	404.40'	305°1'23"	S09°33'15"W	599.53'
C10	3220.40'	1444.19'	252°41'40"	N12°08'07"E	1432.12'
C11	4558.91'	2935.57'	3°11'22"	S01°11'54"E	2933.52'
C12	604.92'	473.01'	44°48'06"	N21°43'55"E	461.05'
C13	544.84'	427.04'	44°54'29"	S21°40'43"W	416.20'
C14	567.36'	386.32'	59°00'48"	S18°43'53"W	378.90'
C15	664.02'	452.73'	39°03'53"	N18°42'20"E	444.02'
C16	704.02'	480.01'	39°03'53"	S18°42'20"W	470.76'
C17	527.36'	346.10'	37°36'08"	N18°01'33"E	339.92'
C18	984.84'	698.40'	44°54'29"	N21°40'43"E	448.25'
C19	564.92'	441.73'	44°48'06"	N21°43'55"E	430.56'
C20	4558.72'	1096.90'	13°47'11"	S07°54'59"W	1094.26'
C21	1179.91'	773.83'	13°56'54"	S07°50'16"W	771.32'
C22	3209.91'	781.86'	13°57'21"	S07°49'53"W	779.92'
C23	4529.91'	1411.13'	17°50'54"	N05°52'59"E	1405.43'
C24	3250.40'	1457.85'	25°41'40"	S12°08'07"W	1445.46'
C25	720.91'	388.74'	305°1'23"	N09°33'15"E	383.57'

**RECEIVED BY**  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-065-C

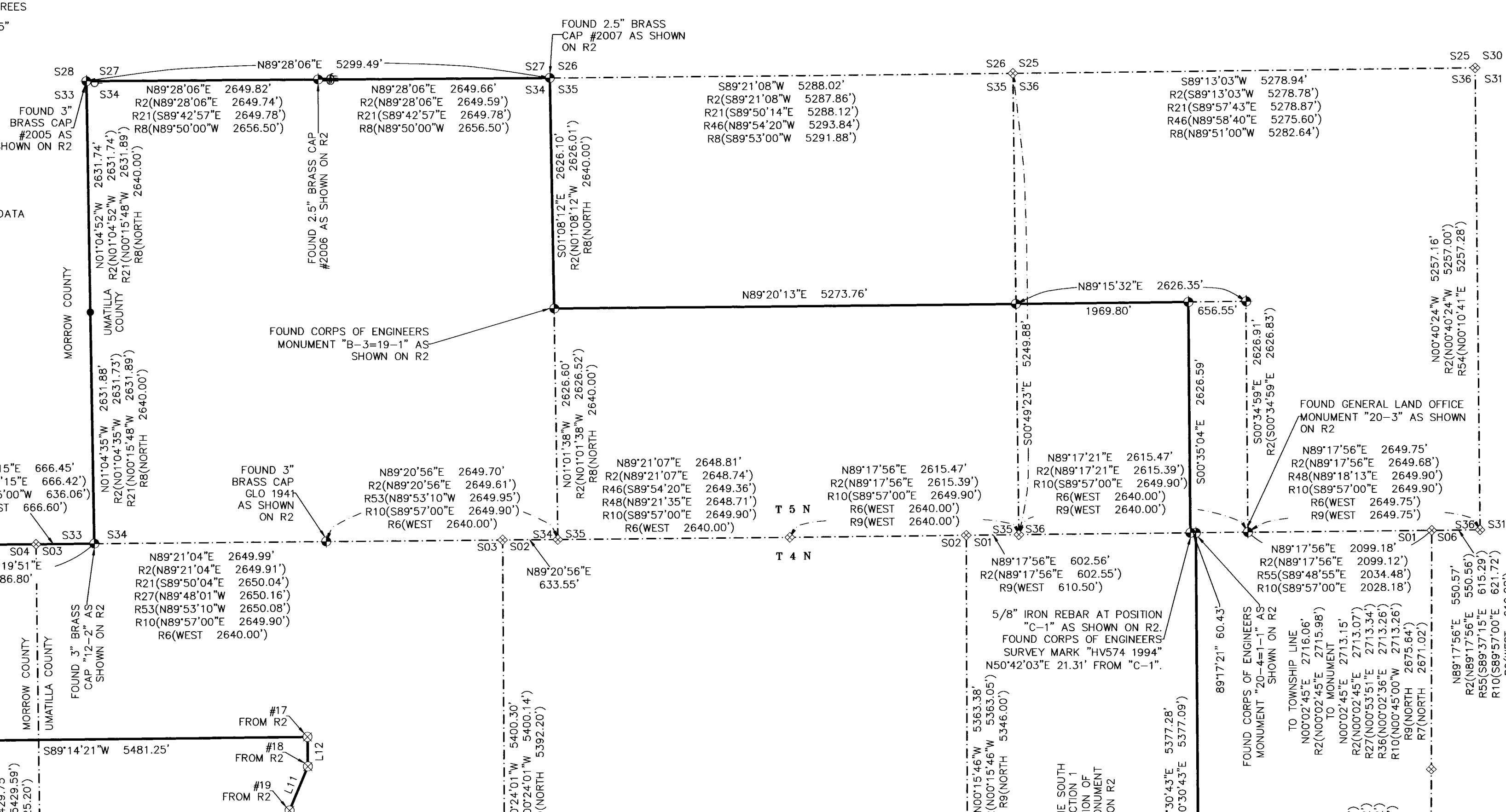
REGISTERED PROFESSIONAL LAND SURVEYOR  
  
 GREG E. FLOWERS  
 02820LS  
 RENEWS 12/31/2021  
 4/26/2021



PBS Engineering and Environmental Inc.  
 5 N Colville St, Ste 200  
 Walla Walla, WA 99362  
 509.956.3026  
 pbsusa.com

CLIENT: C.T.U.I.R.	PROJECT NO.: 67426.008
SURVEYOR: GREG E. FLOWERS	DATE: 4/28/2021
CALC BY: JLM	DRAWN BY: JLM
SCALE: 1"=400'	
SECTION: AS SHOWN	TOWNSHIP: 4N&5N
RANGE: 27 EAST	
CITY: HERMISTON	COUNTY: UMATILLA
SHEET 5 OF 6	

- LEGEND AND ABBREVIATIONS
- MONUMENT FOUND AS DESCRIBED
  - FOUND 3 1/4" ALUMINUM CAP STAMPED "CAMP REES
  - OREGON MILITARY DEPT MON # 2014 PLS 49865"
  - FOUND 3" ALUMINUM CAP STAMPED "INDUSTRIAL
  - AREA" AS SHOWN ON R2
  - SET 5/8"x30" IRON REBAR WITH CAP MARKED
  - "WA19619/0R02820"
  - GUY WIRE
  - POWER POLE
  - UTILITY POLE
  - TELEPHONE RISER
  - IGLOO
  - COMPUTED POSITION FROM R2 VIA COORDINATE DATA
  - C.T.U.I.R. PROPERTY LINE
  - CDA PROPERTY LINE
  - SECTION LINE
  - NATURAL GAS LINE
  - POWER LINE
  - EASEMENT
  - FENCE
  - CENTERLINE
  - COYOTE COULEE (APPROXIMATE)
  - C.T.U.I.R. CONFEDERATED TRIBES OF THE UMATILLA INDIAN RESERVATION
  - CDA COLUMBIA DEVELOPMENT AUTHORITY
  - LUC LAND USE CONTROL
  - USACE US ARMY CORPS OF ENGINEERS



**BASIS OF BEARINGS**  
 THE BASIS OF BEARINGS FOR THIS SURVEY IS NAD 83 OREGON NORTH ZONE GRID BEARINGS OF N89°28'06" BETWEEN THE 3" BRASS CAP FOUND AT THE NORTHWEST CORNER OF SECTION 34, TOWNSHIP 5 NORTH, RANGE 27 EAST, WILLAMETTE MERIDIAN AND THE 2.5" BRASS CAP FOUND AT THE NORTHEAST CORNER OF SAID SECTION 34. DISTANCES SHOWN ON THIS SURVEY ARE GROUND DISTANCES WITH A COMBINED FACTOR OF 1.0003018222671. THIS SURVEY IS IN US SURVEY FEET. SEE NARRATIVE.

- REFERENCE DOCUMENTS**
- (R1) BOUNDARY SURVEY TITLED "OREGON MILITARY DEPARTMENT CAMP REES LICENSE BOUNDARY" RECORDED AS SURVEY NO. 14-119-B BY THE UMATILLA COUNTY SURVEYOR ON 8/20/2014 IN UMATILLA COUNTY, OREGON.
  - (R2) SURVEY TITLED "COLUMBIA DEVELOPMENT AUTHORITY UMATILLA DEPOT SURVEY" RECORDED AS SURVEY NO. 16-018-C BY THE UMATILLA COUNTY SURVEYOR ON 1/27/2016 IN UMATILLA COUNTY, OREGON. (THE DISTANCES SHOWN ON THIS REFERENCE SURVEY ARE GRID DISTANCES. THE DISTANCES SHOWN HEREON ARE GROUND DISTANCES BY THE COMBINED FACTOR OF 1.0003018222671.)
  - (R3) EXHIBIT MAP OF REMNANTS OF THE OREGON TRAIL PREPARED BY FERGUSON SURVEYING AND ENGINEERING, DATED 4/02/2019. PROVIDED BY THE UNITED STATES ARMY CORPS OF ENGINEERS.
  - (R4) DOCUMENTS PROVIDED BY THE US ARMY CORPS OF ENGINEERS CONTAINING THE LEGAL DESCRIPTIONS OF LAND USE CONTROL AREAS AFFECTING LAND SHOWN ON THIS SURVEY. THESE DESCRIBE THE "IGLOOS" (Iglou\_1751.docx), THE "LANDFILL RESTRICTION" (Landfill (NAD83).mxd, 002461.docx), THE "RESTRICTIVE USE AREA - CDA" (LUC - Groundwater Restriction Area CDA.mxd, 002405.docx), AND THE "SITE 39 NOTICE AREAS ADJACENT TO FORMER MEX TESTING" (Adj-LUC-Site39.mxd, 002502.docx).
  - (R5) MAP TITLED "UMATILLA CHEMICAL DEPOT COLUMBIA DEVELOPMENT AUTHORITY PROPOSED USE", PLATE NUMBER EX-1, BY THE US ARMY CORPS OF ENGINEERS, SEATTLE DISTRICT, DATED 2/29/2016.
  - (R6) RECORD RETURNED BY MAXON AND HURD FOR THE SURVEY OF THE FIRST STANDARD PARALLEL NORTH, UNDER CONTRACT NO. 50, DATED FEBRUARY 2, 1860.
  - (R7) RECORD RETURNED BY EBONZER HAFT FOR THE SURVEY OF THE EXTERIOR BOUNDARY OF T.4N., R.28E., UNDER CONTRACT NO. 93, DATED SEPTEMBER 11, 1860.
  - (R8) RECORD RETURNED BY TIMOTHY DAVENPORT FOR THE SURVEY OF THE SUBDIVISION AND MEANDERS OF THE COLUMBIA RIVER IN T.5N., R.27E., UNDER CONTRACT NO. 101, DATED AUGUST 5, 1861.
  - (R9) RECORD RETURNED BY NICOLAS WALDON, WHO SURVEYED THE EAST AND WEST BOUNDARIES IN ORDER TO SUBDIVIDE T.4N., R.27E., UNDER CONTRACT NO. 209, DATED JULY 6, 1874.
  - (R10) RECORD RETURNED BY OTIS O. GOULD FOR A DEPENDANT RESURVEY OF THE FIRST STANDARD PARALLEL NORTH AND THE EAST BOUNDARY OF T.4N., R.27E. UNDER SPECIAL INSTRUCTIONS DATED SEPTEMBER 9, 1940, INCLUDING SURVEYS IN GROUP NO. 260.
  - (R11) RECORD RETURNED BY LANCE KING ON UMATILLA COUNTY SURVEY #14-105-B, FILED 7/17/2014.
  - (R12) RECORD RETURNED BY GARY ROBERTS ON UMATILLA COUNTY SURVEY #14-125-C, FILED 3/19/2014.
  - (R13) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #13-210-B, FILED 8/2/2013.
  - (R14) RECORD RETURNED BY GARY ROBERTS ON UMATILLA COUNTY SURVEY #12-142-C, FILED 10/5/2012.
  - (R15) RECORD RETURNED BY RODNEY LEWIS ON UMATILLA COUNTY SURVEY #11-55-B, FILED 5/2011 AND SURVEY #11-105-B, FILED 9/2011.
  - (R16) RECORD RETURNED BY ROBERT ENGLISH ON UMATILLA COUNTY PARTITION PLAT 2011-01, FILED 1/6/2011 (UMATILLA COUNTY SURVEY #11-22-B).
  - (R17) RECORD RETURNED BY RON MCKINNIS ON UMATILLA COUNTY SURVEY #09-029-B, FILED 2/2009.
  - (R18) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #07-194-B, FILED 7/2007.
  - (R19) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #06-499-C, FILED 8/2006.
  - (R20) RECORD RETURNED BY BRIT PRIMM ON UMATILLA COUNTY SURVEY #06-458-B, FILED 6/2006.
  - (R21) RECORD RETURNED BY KEITH PRIMM ON UMATILLA COUNTY SURVEY #06-461-B, FILED 6-2006.
  - (R22) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #05-041-C, FILED 2/2005.
  - (R23) RECORD RETURNED BY GARY ROBERTS ON UMATILLA COUNTY SURVEY #03-309-C, FILED 10/2003.
  - (R24) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #03-113-B, FILED 7/2003.
  - (R25) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #03-141-B, DATED 4/2003, FILED 4/2013.
  - (R26) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #02-160-B, FILED 6/2002.
  - (R27) RECORD RETURNED BY BRIT PRIMM & DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #03-54-C, FILED 4/2001.
  - (R28) RECORD RETURNED BY ROBERT STRATTON ON UMATILLA COUNTY SURVEY #01-023-B, FILED 3/2001.
  - (R29) RECORD RETURNED BY GARY WAGNER ON UMATILLA COUNTY SURVEY #00-88-B, FILED 4/2000.
  - (R30) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #00-060-B, FILED 3/2000.
  - (R31) RECORD RETURNED BY JUDSON COPPOCK ON UMATILLA COUNTY SURVEY #99-124-B, FILED 7/1999.
  - (R32) RECORD RETURNED BY WILLIAM WELLS ON UMATILLA COUNTY SURVEY #99-74-C, FILED 5/1999.
  - (R33) RECORD RETURNED BY JOHN BAALMAN ON UMATILLA COUNTY SURVEY #95-05-B, FILED 1/1998.
  - (R34) RECORD RETURNED BY WILLIAM WELLS ON UMATILLA COUNTY SURVEY #95-131-C, FILED 8/1995.
  - (R35) RECORD RETURNED BY RON MCKINNIS ON UMATILLA COUNTY SURVEY #94-138-B, FILED 10/1994.
  - (R36) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #94-022-C, FILED 3/1994.
  - (R37) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #93-111-B, FILED 12/1993.
  - (R38) RECORD RETURNED BY WILLIAM WELLS ON UMATILLA COUNTY SURVEY #91-40-C, FILED 5/1991.
  - (R39) RECORD RETURNED BY WALTER SULLIVAN ON UMATILLA COUNTY SURVEY #85-145-B, FILED 10/14/1985.
  - (R40) RECORD RETURNED BY EARL MING ON UMATILLA COUNTY SURVEY #85-74-A, FILED 6/7/1985.
  - (R41) RECORD RETURNED BY DONALD STAEBLER ON UMATILLA COUNTY SURVEY #85-141-C, DATED 12/14/1981.
  - (R42) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #84-89-B, DATED 10/12/1976.
  - (R43) RECORD RETURNED BY AMBROSE SHAE ON UMATILLA COUNTY SURVEY #83-32-AX, DATED 2/10/1976.
  - (R44) RECORD RETURNED BY DAVID KRUMBEIN ON UMATILLA COUNTY SURVEY #81-16-C, DATED 10/30/1973.
  - (R45) RECORD RETURNED BY DONALD STAEBLER ON UMATILLA COUNTY SURVEY #81-142-B, DATED 9/8/1972.
  - (R46) RECORD RETURNED BY DONALD STAEBLER ON UMATILLA COUNTY SURVEY #81-106-B, DATED 4/7/1972.
  - (R47) RECORD RETURNED BY DAVID KRUMBEIN ON UMATILLA COUNTY SURVEY #80-697-C, DATED 1/20/1979.
  - (R48) RECORD RETURNED BY DAVID KRUMBEIN ON UMATILLA COUNTY SURVEYS #03-294-C & #1-161-C, BOTH DATED 12/6/1971, REVISED 12/30/1974.
  - (R49) RECORD RETURNED BY DONALD STAEBLER ON UMATILLA COUNTY SURVEY #81-119-B, DATED 8/24/1971.
  - (R50) RECORD RETURNED BY DONALD STAEBLER ON UMATILLA COUNTY SURVEY #81-7-C, DATED 1/20/1969.
  - (R51) RECORD RETURNED BY WAYNE HARRIS ON UMATILLA COUNTY SURVEY #81-20-B, DATED 12/27/1968.
  - (R52) RECORD RETURNED BY DENNIS EDWARDS ON UMATILLA COUNTY SURVEY #91-01-B, FILED 1/1991.
  - (R53) RECORD RETURNED BY CHRIS PALMER ON UMATILLA COUNTY SURVEY #81-41-B, DATED 4/27/1976.

LINE	BEARING	DISTANCE
L1	S89°17'40"W	596.12'
L2	S00°30'52"E	160.00'
L3	S89°29'08"W	700.67'
L4	S00°42'33"E	543.67'
L5	N89°46'22"E	291.42'
L6	N00°46'06"W	209.57'
L7	S0°54'10"W	272.61'
L8	N89°13'23"E	60.00'
L9	S89°23'06"W	83.85'
L10	N00°46'33"W	309.42'
L11	N27°30'46"E	543.75'
L12	N00°46'59"W	338.83'
L13	N2°45'25"E	66.30'
L14	S89°55'37"W	532.78'
L15	N18°56'57"W	719.89'
L16	S71°03'03"W	1000.00'
L17	S18°56'57"E	642.03'
L18	N89°14'35"E	505.97'
L19	N7°03'03"E	519.33'
L20	N18°56'57"W	810.11'

CURVE	RADIUS	ARC LENGTH	CHORD LENGTH	CHORD BEARING	DELTA ANGLE
C1	150.00	137.35	132.61	S42°7'19"	92°73'7"
C2	1076.85	871.06	847.50	S15°02'48"	46°70'46"
C3	311.50	315.70	302.36	S21°08'36"	58°04'08"
C4	282.50	276.33	275.98	N25°28'40"	49°24'03"
C5	322.50	175.81	173.65	N16°23'40"	31°14'08"
C6	195.00	126.41	124.21	N23°14'45"	37°08'31"
C7	637.85	266.74	264.80	S16°35'29"	23°57'36"
C8	1554.70	850.44	840.38	N75°19'46"	30°34'28"

REGISTERED PROFESSIONAL LAND SURVEYOR

RECEIVED BY  
 Umatilla County Surveyor  
 Date: 6/9/21  
 Rec'd By: CT  
 No.: 21-065-C

OREGON  
 JUNE 30, 1997  
 REG. EX. FLOWERS  
 0282015

REVISED 12/31/2021  
 1/16/2021



CLIENT: C.T.U.I.R.	PROJECT NO.: 67429.008
SURVEYOR: GREG E. FLOWERS	DATE: 4/26/2021
CALC BY: JLM	DRAWN BY: JLM
SCALE: 1"=1000'	
SECTION: AS SHOWN	TOWNSHIP: 4N&S
RANGE: 27 EAST	COUNTY: UMATILLA
SHEET 6 OF 6	