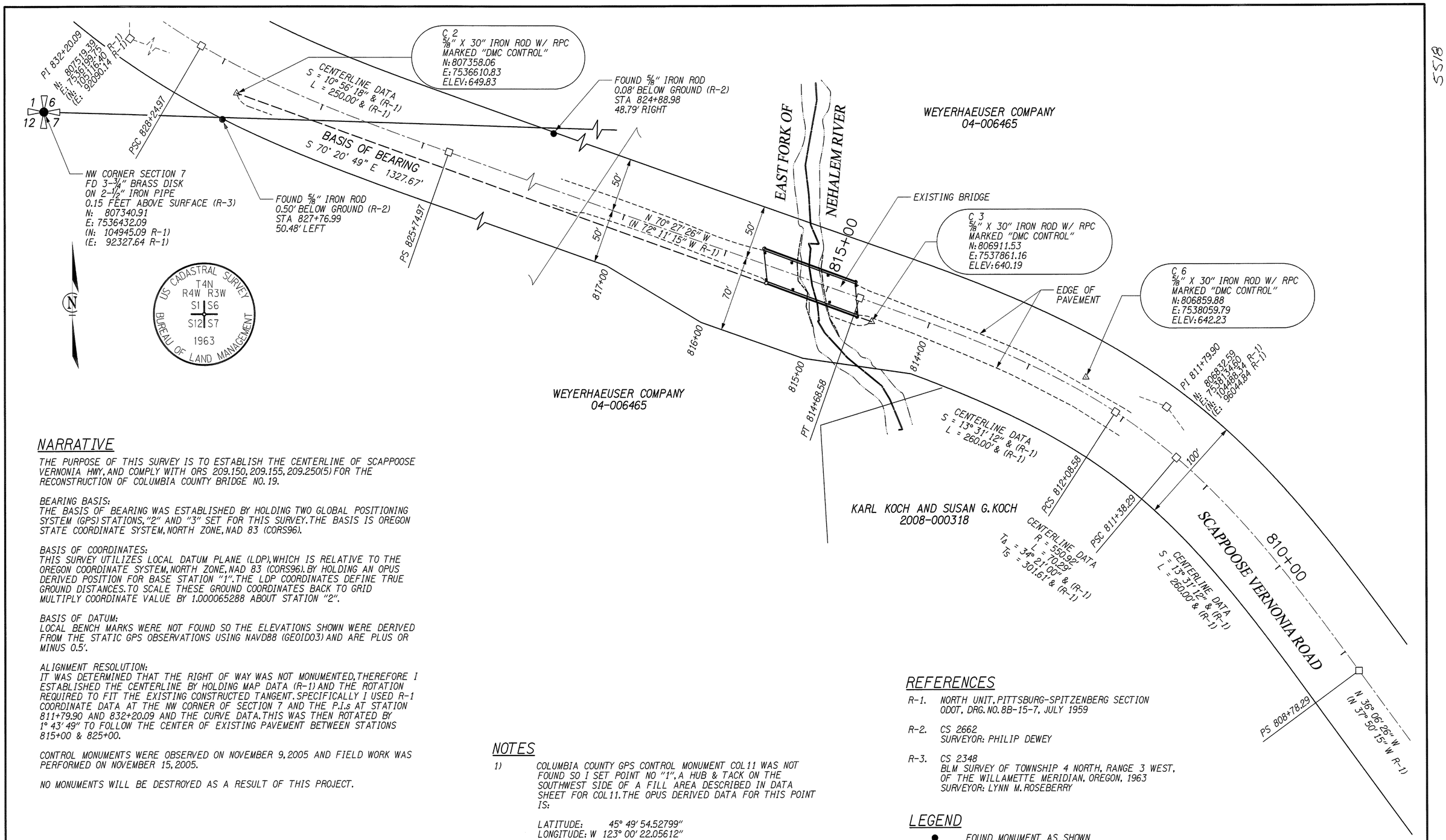
5518



5518

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO ESTABLISH THE CENTERLINE OF SCAPPOOSE VERNONIA HWY, AND COMPLY WITH ORS 209.150, 209.155, 209.250(5) FOR THE RECONSTRUCTION OF COLUMBIA COUNTY BRIDGE NO. 19.

BEARING BASIS:
THE BASIS OF BEARING WAS ESTABLISHED BY HOLDING TWO GLOBAL POSITIONING SYSTEM (GPS) STATIONS, "2" AND "3" SET FOR THIS SURVEY. THE BASIS IS OREGON STATE COORDINATE SYSTEM, NORTH ZONE, NAD 83 (CORS96).

BASIS OF COORDINATES:
THIS SURVEY UTILIZES LOCAL DATUM PLANE (LDP), WHICH IS RELATIVE TO THE OREGON COORDINATE SYSTEM, NORTH ZONE, NAD 83 (CORS96). BY HOLDING AN OPUS DERIVED POSITION FOR BASE STATION "1". THE LDP COORDINATES DEFINE TRUE GROUND DISTANCES. TO SCALE THESE GROUND COORDINATES BACK TO GRID MULTIPLY COORDINATE VALUE BY 1.000065288 ABOUT STATION "2".

BASIS OF DATUM:
LOCAL BENCH MARKS WERE NOT FOUND SO THE ELEVATIONS SHOWN WERE DERIVED FROM THE STATIC GPS OBSERVATIONS USING NAVD88 (GEOID03) AND ARE PLUS OR MINUS 0.5'.

ALIGNMENT RESOLUTION:
IT WAS DETERMINED THAT THE RIGHT OF WAY WAS NOT MONUMENTED, THEREFORE I ESTABLISHED THE CENTERLINE BY HOLDING MAP DATA (R-1) AND THE ROTATION REQUIRED TO FIT THE EXISTING CONSTRUCTED TANGENT. SPECIFICALLY I USED R-1 COORDINATE DATA AT THE NW CORNER OF SECTION 7 AND THE P.I.s AT STATION 811+79.90 AND 832+20.09 AND THE CURVE DATA. THIS WAS THEN ROTATED BY 1° 43' 49" TO FOLLOW THE CENTER OF EXISTING PAVEMENT BETWEEN STATIONS 815+00 & 825+00.

CONTROL MONUMENTS WERE OBSERVED ON NOVEMBER 9, 2005 AND FIELD WORK WAS PERFORMED ON NOVEMBER 15, 2005.

NO MONUMENTS WILL BE DESTROYED AS A RESULT OF THIS PROJECT.

NOTES

1) COLUMBIA COUNTY GPS CONTROL MONUMENT COL11 WAS NOT FOUND SO I SET POINT NO "1", A HUB & TACK ON THE SOUTHWEST SIDE OF A FILL AREA DESCRIBED IN DATA SHEET FOR COL11. THE OPUS DERIVED DATA FOR THIS POINT IS:

LATITUDE: 45° 49' 54.52799"
LONGITUDE: W 123° 00' 22.05612"

2) "C 2" IS AT:

LATITUDE: 45° 51' 05.85644"
LONGITUDE: W 123° 06' 43.62124"

REFERENCES

R-1. NORTH UNIT, PITTSBURG-SPITZENBERG SECTION
ODOT, DRG. NO. 8B-15-7, JULY 1959

R-2. CS 2662
SURVEYOR: PHILIP DEWEY

R-3. CS 2348
BLM SURVEY OF TOWNSHIP 4 NORTH, RANGE 3 WEST, OF THE WILLAMETTE MERIDIAN, OREGON, 1963
SURVEYOR: LYNN M. ROSEBERRY

LEGEND

●	FOUND MONUMENT AS SHOWN
△	SET MONUMENT AS SHOWN
RPC	RED PLASTIC CAP
( )	DENOTES RECORD DATA
□	CALCULATED POINT NOTHING FOUND, NOTHING SET

REGISTERED
PROFESSIONAL
LAND SURVEYOR

David W. Mills 2/26/08

OREGON
JULY 18, 1980
DAVID W. MILLS
01915
EXPIRES 12-31-08

Columbia County Surveyor
Received 1/25/08
Filed 2/28/08
CS# 5518

NO.	REVISIONS	DATE	BY
1	PER COUNTY REVIEW	2-26-08	GC

RESOLVED DWM
DRAWN GMC
CHECKED CHECKED
APPROVED APPROVED

0 1" 2"
TWO INCHES AT FULL SCALE
IF NOT SCALE ACCORDINGLY
SCALE 1" = 60'
DATE 1-23-2008

Dave Mills Consulting Inc.
PROFESSIONAL LAND SURVEYING SERVICES, OREGON & WASHINGTON
14315 S.W. Cougar Ridge Dr.
Beaverton, OR 97008
Ph: 503-590-7158
Fax: 503-521-8372
email: d.mills@verizon.net

CLIENT:
COLUMBIA COUNTY
ROAD DEPARTMENT

JOB NO. 05-07A
FILE NAME: B19 ROW.DGN

PROJECT NAME:
RIGHT OF WAY & CONTROL SURVEY
BRIDGE 19 – NORTH FORK SCAPPOOSE CREEK
SCAPPOOSE VERNONIA HIGHWAY, COLUMBIA COUNTY, OREGON
NW 1/4 SEC 7 T.4N. R.3W. W.M.

SHEET NO. 1 / 1

5518