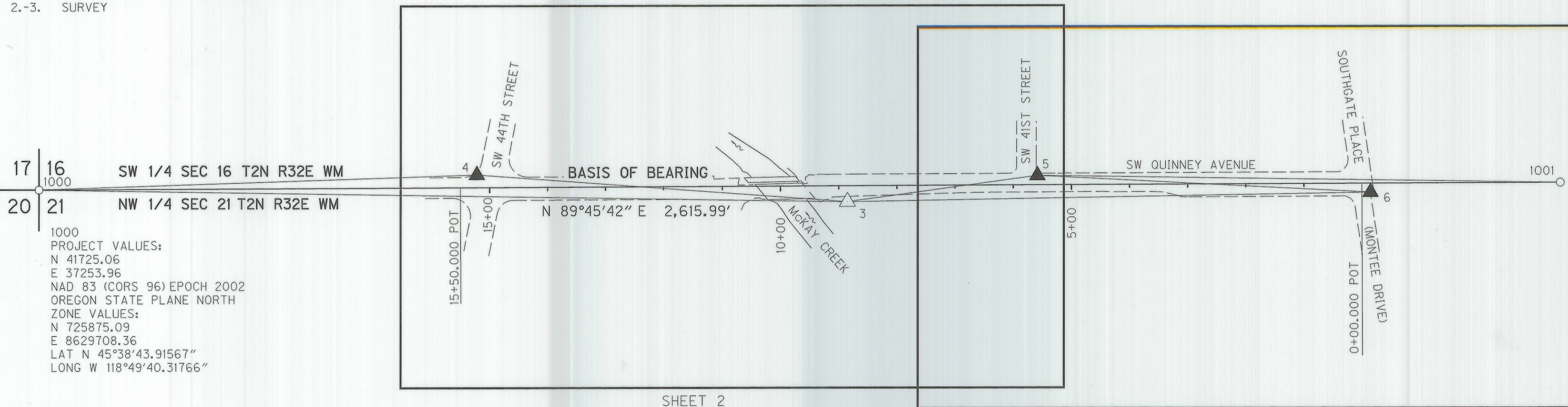


**SHEET INDEX**

1. NARRATIVE, REFERENCES, SHEET LAYOUT, SHEET INDEX, CONTROL NETWORK AND BASIS OF BEARING
- 2.-3. SURVEY

SW 1/4 SEC 16 T2N R32E WM  
 NW 1/4 SEC 21 T2N R32E WM



1001  
 PROJECT VALUES:  
 N 41735.94  
 E 39869.93  
 NAD 83 (CORS 96) EPOCH 2002  
 OREGON STATE PLANE NORTH  
 ZONE VALUES:  
 N 725936.41  
 E 8632323.27  
 LAT N 45°35'43.98510"  
 LONG W 118°49'03.49877"

**REFERENCES**

1. COUNTY ROAD RESOLUTION FOR THE DISPOSITION OF COUNTY ROAD NO. 422, DATED MARCH 1893
2. MONTEE ADDITION TO THE CITY OF PENDLETON, OREGON, BY VERNON B. TENNESON, FILED DEC. 30, 1954
3. SN Q-450-AX, BY RALPH P. THOMPSON, DATED SEPT. 17, 1963
4. EDWARDS ADDITION, BY STANLEY G. WALLULIS, FILED MAR. 3, 1964
5. SN A-44-AX, BY RALPH P. THOMPSON, DATED JAN. 24, 1966
6. SN H-247-AX, BY RALPH P. THOMPSON, DATED NOV. 8, 1973
7. SN O-97-A, BY WILLIAM R. WELLS, DATED AUG. 12, 1977
8. SUNRISE SOUTH ADDITION, BY STANLEY G. WALLULIS, FILED MAR. 1, 1978
9. SN 93-54-C, BY WILLIAM R. WELLS, FILED JUNE 1993
10. SN 98-59-B, BY WILLIAM R. WELLS, FILED APR. 1998
11. SN 99-294-B, BY WILLIAM R. WELLS, FILED DEC. 1999
12. SN 00-028-B, BY WILLIAM R. WELLS, FILED FEB. 2000
13. SN 08-104-B, PARTITION PLAT NO. 2008-14, BY WILLIAM R. WELLS, FILED JUNE 10, 2008

**CONTROL NARRATIVE**

PROJECT: SW QUINNEY AVENUE (MCKAY CR) BRIDGE  
 LOCATION: UMATILLA COUNTY  
 OBEC PROJECT: 706001  
 SURVEY DATUM:  
 HORIZONTAL - CITY OF PENDLETON COORDINATE SYSTEM  
 VERTICAL - NGVD 29 (INTERNATIONAL FEET)

**GPS HORIZONTAL CONTROL SURVEY**

PRIMARY HORIZONTAL CONTROL WAS PROVIDED BY THE CITY OF PENDLETON. THE CITY OF PENDLETON UTILIZES A LOCAL COORDINATE SYSTEM AND THEY PROVIDED COORDINATES FOR POINTS 1000 AND 1001. GEODETIC COORDINATES WERE ESTABLISHED ON THE CONTROL POINTS PROVIDED BY THE CITY OF PENDLETON USING THE NGS OPUS PROGRAM, WHICH HELD CORS STATIONS "D451", "P020", "GOBS", "GWN6", "LINH", "SPN5", "REDM", "P432" AND "ORS1" TO ESTABLISH GEODETIC POSITIONS ON POINTS 1000 AND 1001. A SUBSEQUENT FAST STATIC GPS SURVEY WAS PERFORMED TO ESTABLISH A POSITION FOR POINT 3. CONVENTIONAL SURVEY TECHNIQUES WERE USED TO ESTABLISH POSITIONS ON POINTS 4, 5, AND 6.

CONTROL NETWORK SCHEMATIC,  
 BASIS OF BEARING &  
 SHEET LAYOUT DIAGRAM  
 NOT TO SCALE

LEGEND	
○	FOUND MONUMENT
△	FOUND NETWORK POINT
▲	SET NETWORK POINT
▲—○	LINE OF OBSERVATION (INTERVISIBLE)

I, BRET N. ELITHORP, STATE THAT THIS SURVEY WAS PREPARED USING HEWLETT-PACKARD PRODUCT #51645a ON CONTINENTAL #JPC4M2 POLYESTER FILM.

*B. N. Elithorp* 8/6/09  
 BRET N. ELITHORP DATE

RPC = RED PLASTIC CAP  
 OSP = OREGON STATE PLANE

**NARRATIVE**

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE FIELD LOCATION OF THE EXISTING RIGHT OF WAY FOR A PORTION OF SW QUINNEY AVENUE FROM SOUTHGATE PLACE (MONTEE DRIVE) (OLD US HWY. 395) TO SW 44TH STREET IN PENDLETON, OREGON. ANOTHER PURPOSE OF THIS SURVEY IS TO PERPETUATE ANY EXISTING SURVEY MONUMENTS THAT LIE WITHIN THE PROJECT FOOTPRINT WHICH MAY BE DESTROYED DUE TO A FUTURE BRIDGE REPLACEMENT AND ROAD IMPROVEMENT PROJECT. PERPETUATION OF THE MONUMENT LOCATIONS WAS ACCOMPLISHED BY TYING THE MONUMENTS TO THE PROJECT CONTROL NETWORK. THIS SURVEY WAS MADE AT THE REQUEST OF THE CITY OF PENDLETON. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, CHAPTER 209.155.

THIS SURVEY WAS PERFORMED USING INTERNATIONAL FEET UNITS.

THIS SURVEY WAS PERFORMED IN APRIL THROUGH JUNE 2009. THE SURVEY EQUIPMENT USED CONSISTED OF TRIMBLE DUAL FREQUENCY GPS RECEIVERS (5700 AND R8), A TRIMBLE S6 ROBOTIC TOTAL STATION AND TRIMBLE TSC2 DATA COLLECTORS.

**SW QUINNEY AVENUE (COUNTY ROAD NO. 422)**

THIS RESOLUTION COVERS A PORTION OF SW QUINNEY AVENUE (COUNTY ROAD NO. 422) FROM SOUTHGATE PLACE (MONTEE DRIVE) WESTERLY TO SW 44TH STREET. THE COUNTY ROAD RESOLUTION DOCUMENTS FOR COUNTY ROAD NO. 422 DATED MARCH 1893 DESCRIBE THE CENTERLINE FOR THIS PORTION OF SW QUINNEY AVENUE AS FOLLOWING THE SECTION LINE BETWEEN SECTIONS 16 AND 21. THE SECTION CORNER COMMON TO SECTIONS 16, 17, 20 AND 21, ALONG WITH THE QUARTER CORNER COMMON TO SECTIONS 16 AND 21 WERE TIED AND HELD TO ESTABLISH THE CENTERLINE OF SW QUINNEY AVENUE. STATIONING OF THE CENTERLINE ALIGNMENT WAS ESTABLISHED PER THIS SURVEY. THE COUNTY ROAD RESOLUTION DOCUMENTS FOR COUNTY ROAD NO. 422 STATE A RIGHT OF WAY WIDTH OF 40 FEET, 20 FEET ON EACH SIDE OF THE SECTION LINE, WHICH WAS USED FOR THIS SURVEY. AN ADDITIONAL 10 FEET OF RIGHT OF WAY WAS DEDICATED PER EDWARDS ADDITION AND SUNRISE SOUTH ADDITION SUBDIVISION PLATS, AND AS SHOWN ON COUNTY SURVEY NO. O-97-A AND 99-294-B. THE RIGHT OF WAY ON THE NORTH SIDE OF SW QUINNEY AVENUE EAST OF MCKAY CREEK WAS ESTABLISHED BASED ON A BEST FIT OF THE ORIGINAL SUBDIVISION PLAT MONUMENTS FROM MONTEE ADDITION.

FILE NAME: 706001ret.dgn

**NETWORK POINT COORDINATE TABLE**

PT ID	LDP NORTHING	LDP EASTING	DATE	ELEV	DESCRIPTION
3	41703.32	38643.46	04/07/09	1064.94	FD 5/8" IRON ROD W/RPC MARKED "COP CONTROL"
4	41750.12	38006.75	04/07/09	1065.97	SET MAG NAIL & WASHER MARKED "OBEC CONTROL"
5	41748.23	38970.08	04/07/09	1065.37	SET MAG NAIL & WASHER MARKED "OBEC CONTROL"
6	41719.26	39543.30	04/07/09	1070.57	SET MAG NAIL & WASHER MARKED "OBEC CONTROL"
1000	41725.06	37253.96	04/07/09	1140.65	FD 1-1/4" IRON PIPE W/2-1/2" BRASS CAP MARKED "T2N R32E WM 17/16/20/21 OR LS 635", GOOD COND, UP 0.5'
1001	41735.94	39869.93	04/07/09	1108.09	FD 2" BRASS DISK IN CONC MARKED "CITY OF PENDLETON 1/4 COR", GOOD COND, FLUSH

REGISTERED PROFESSIONAL LAND SURVEYOR  
*B. N. Elithorp*  
 OREGON JAN. 14, 2003  
 BRET N. ELITHORP #63148

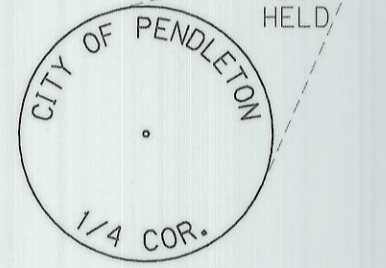
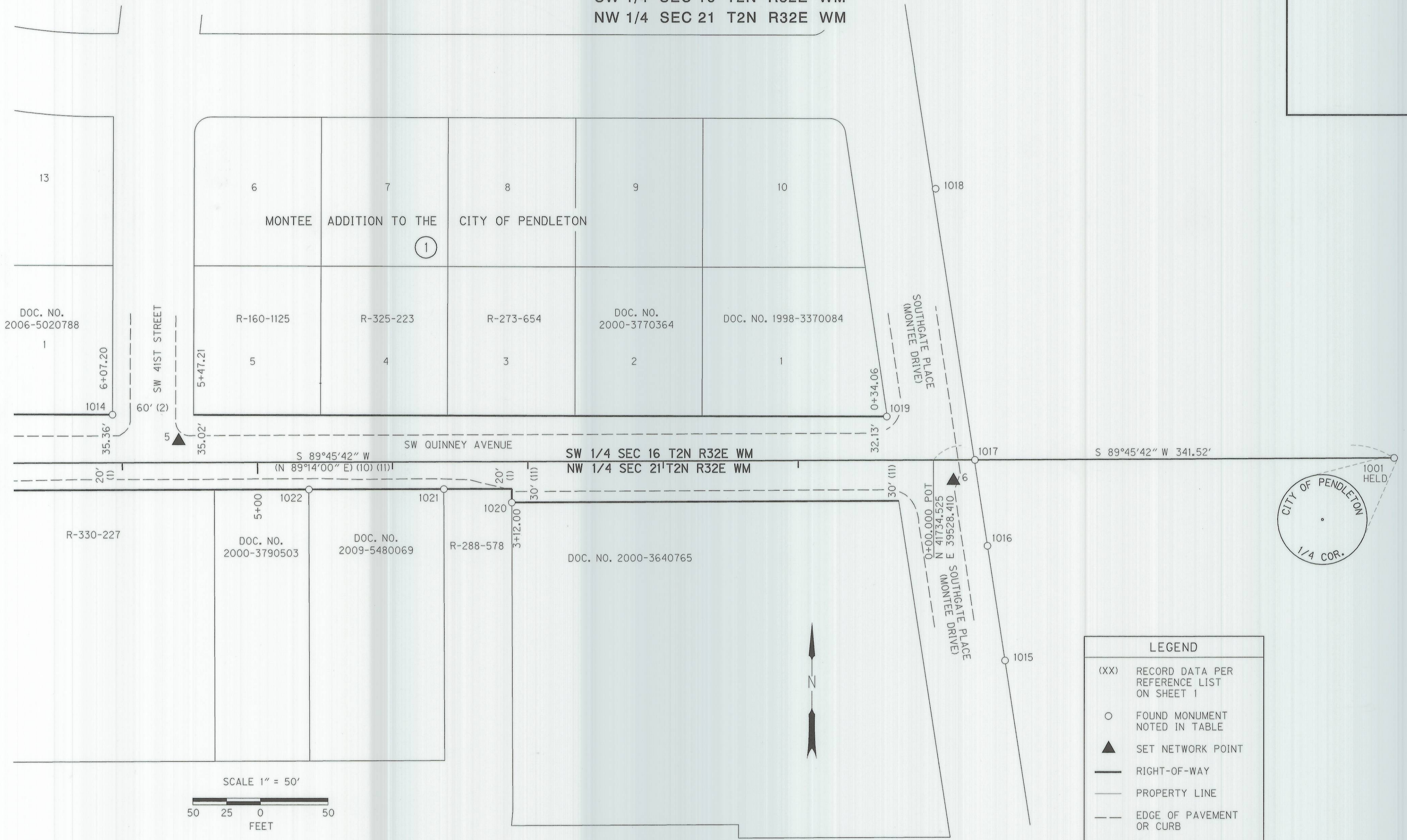
RENEWAL DATE: DEC. 31, 2009  
 SIGNED: 8/6/09

OBEC CONSULTING ENGINEERS  
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090  
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295, 503-589-4100  
 831 O'HARE PARKWAY MEDFORD, OREGON 97504-4005, 541-774-5590  
 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY  
 RECEIVED BY Umatilla County Surveyor  
 SW QUINNEY AVENUE (MCKAY CR) BRIDGE  
 SW QUINNEY AVENUE UMATILLA COUNTY  
 Date: 8-09  
 Rec'd By: KK  
 No. 09-111-B  
 JULY, 2009  
 NO SCALE  
 SHEET 1 OF 3  
 DESIGNED: B. ELITHORP PROJ. NO. 706001  
 DRAWN: A. DUPLANT CHK'D: J. COLTON

SW 1/4 SEC 16 T2N R32E WM  
 NW 1/4 SEC 21 T2N R32E WM

SEE SHEET 3



LEGEND	
(XX)	RECORD DATA PER REFERENCE LIST ON SHEET 1
○	FOUND MONUMENT NOTED IN TABLE
▲	SET NETWORK POINT
—	RIGHT-OF-WAY
---	PROPERTY LINE
---	EDGE OF PAVEMENT OR CURB

YPC = YELLOW PLASTIC CAP  
 RPC = RED PLASTIC CAP  
 WPC = WHITE PLASTIC CAP  
 ID = INSIDE DIAMETER

FILE NAME: 706001ret.dgn

RECOVERED MONUMENT LIST

PT ID	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1001	41735.94	39869.93	N/A	N/A	04/07/09	FD 2" BRASS DISK IN CONC MARKED "CITY OF PENDLETON 1/4 COR", GOOD COND, FLUSH
1014	41767.36	38921.02	6+07.24	35.36' RT	04/07/09	FD 1/2" ID IRON PIPE, GOOD COND, DOWN 0.3', MONTEE ADDITION
1015	41586.66	39581.64	N/A	N/A	04/07/09	FD 5/8" IRON ROD W/RPC "OR PLS 1106 WA PLS 17372", GOOD COND, FLUSH, SN 08-104-B
1016	41671.28	39568.54	N/A	N/A	04/07/09	FD 5/8" IRON ROD W/RPC "OR PLS 1106 WA PLS 17372", GOOD COND, FLUSH, SN 08-104-B
1017	41734.64	39559.18	N/A	N/A	04/07/09	FD 1/2" IRON ROD, GOOD COND, UP 0.1', SN 08-104-B
1018	41934.83	39529.89	N/A	N/A	04/07/09	FD 1/2" IRON ROD, BENT TIED SPIN POINT, UP 1.9', ORIGIN UNKNOWN
1019	41766.46	39493.85	0+34.42	32.07' RT	04/07/09	FD 5/8" IRON ROD W/WPC INSIDE 2" ID IRON PIPE, GOOD COND, FLUSH, MONTEE ADDITION
1020	41703.15	39216.54	3+12.00	30.08' LT	04/07/09	FD 5/8" IRON ROD, BENT TIED SPIN POINT, FLUSH, SN 99-294-B
1021	41712.95	39166.52	3+61.98	20.07' LT	04/07/09	FD 5/8" IRON ROD W/YPC "OR PLS 1106 WA PLS 17372", GOOD COND, FLUSH, SN 00-028-B
1022	41712.54	39066.51	4+61.99	20.06' LT	04/07/09	FD 5/8" IRON ROD, GOOD COND, FLUSH, SN 00-028-B

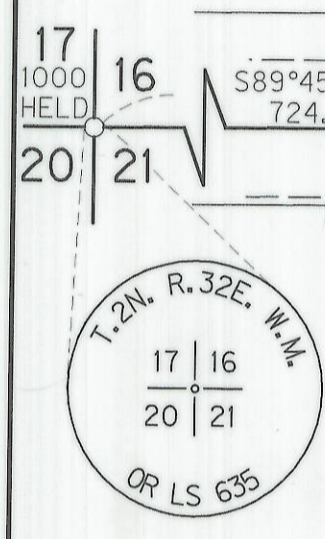
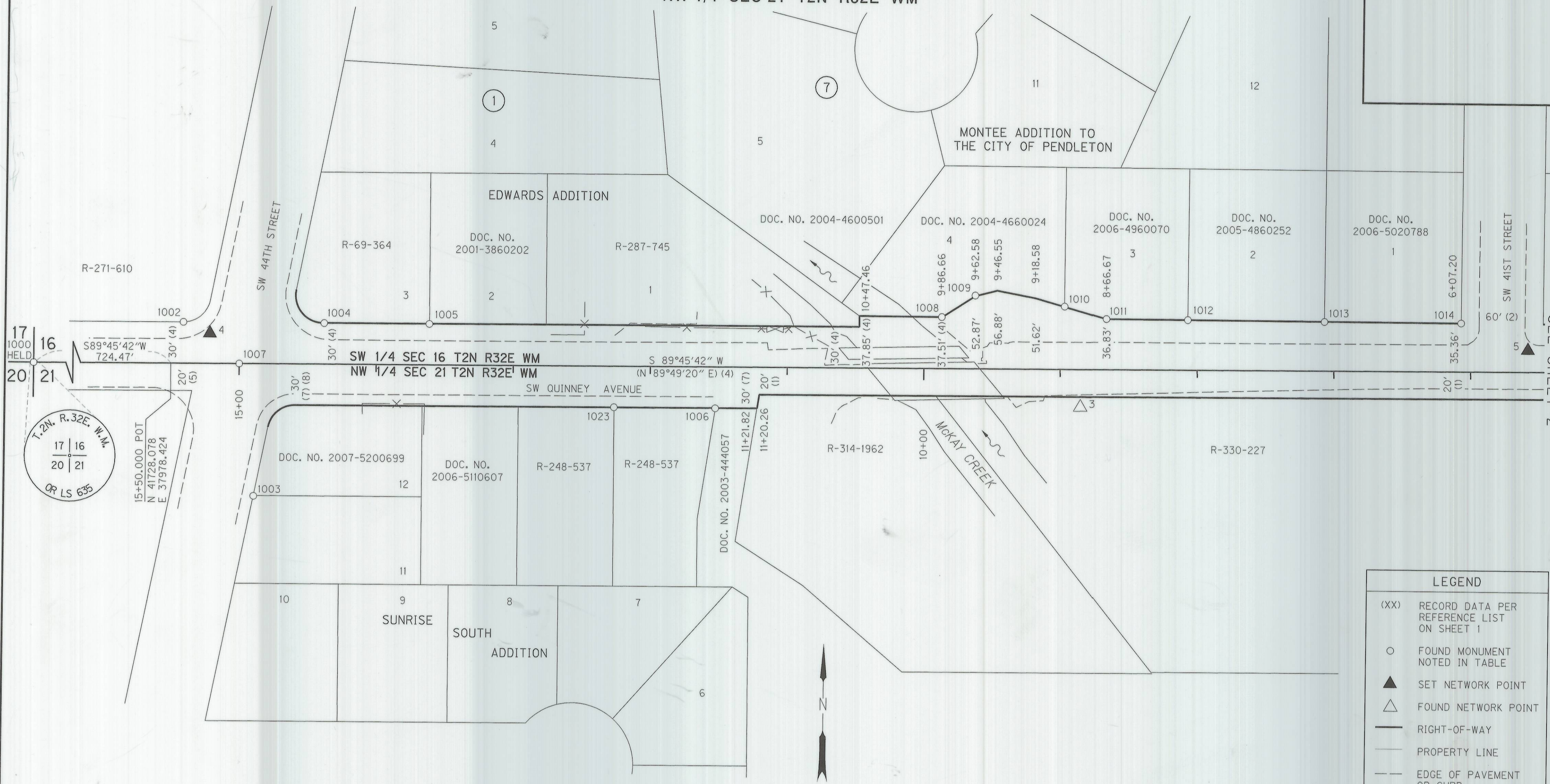
REGISTERED PROFESSIONAL LAND SURVEYOR  
*B. N. Elithorp*  
 OREGON  
 JAN. 14, 2003  
 BRET N. ELITHORP  
 #63148

RENEWAL DATE: DEC. 31, 2009  
 SIGNED: *B. N. Elithorp*

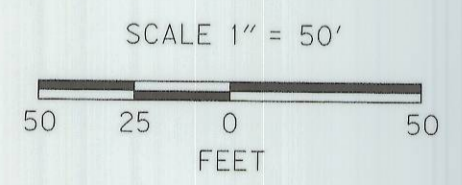
**OBEC CONSULTING ENGINEERS**  
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090  
 2235 MISSION STREET SE, SUITE 100 SALEM, OREGON 97302-1295, 503-589-4100  
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 5005 SW MEADOWS ROAD, SUITE 120 LAKE OSWEGO, OREGON 97035, 503-620-6103

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY  
 RECEIVED SW QUINNEY AVENUE (MCKAY CR) BRIDGE  
 Umatilla County Survey SW QUINNEY AVENUE  
 UMATILLA COUNTY  
 Date *08-09*  
 Rec'd By *KK*  
 No. *09-111-B*  
 JULY, 2009  
 SCALE 1"=50'  
 SHEET 2 OF 3  
 DESIGNED: B. ELITHORP  
 DRAWN: A. DUPLANT  
 CHK'D: J. COLTON  
 PROJ. NO. 706001

SW 1/4 SEC 16 T2N R32E WM  
 NW 1/4 SEC 21 T2N R32E WM



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○	FOUND MONUMENT NOTED IN TABLE
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△	FOUND NETWORK POINT
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YPC = YELLOW PLASTIC CAP  
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RECOVERED MONUMENT LIST

PT ID	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1000	41725.06	37253.96	N/A	N/A	04/07/09	FD 1-1/4" IRON PIPE W/2-1/2" BRASS CAP MARKED "T2N R32E WM 17/16/20/21 OR LS 635", GOOD COND, UP 0.5'
1002	41758.11	37987.32	15+40.98	30.00' RT	04/07/09	FD 5/8" IRON ROD, GOOD COND, DOWN 0.6', EDWARDS ADDITION
1003	41632.15	38040.00	14+88.83	96.19' LT	04/07/09	FD 1/2" IRON ROD, GOOD COND, DOWN 0.8', SUNRISE SOUTH ADDITION
1004	41758.42	38090.37	14+37.93	29.87' RT	04/07/09	FD 5/8" IRON ROD, BENT TIED SPIN POINT, DOWN 0.5', EDWARDS ADDITION
1005	41758.70	38166.93	13+61.36	29.83' RT	04/07/09	FD 5/8" IRON ROD, BENT TIED IN PLACE, DOWN 0.5', EDWARDS ADDITION
1006	41699.56	38376.16	11+52.38	30.17' LT	04/07/09	FD 1/2" IRON ROD, BENT TIED SPIN POINT, DOWN 0.2', SN 0-97-A
1007	41728.26	38028.49	14+99.94	0.03' LT	04/07/09	FD PK NAIL, CL-CL SW 44TH & SW QUINNEY, ORIGIN UNKNOWN
1008	41767.91	38541.15	9+87.12	37.49' RT	04/07/09	FD 1/2" ID IRON PIPE, BENT TIED SPIN POINT, DOWN 0.7', MONTEE ADDITION
1009	41783.79	38565.56	9+62.64	53.27' RT	04/07/09	FD 1/2" ID IRON PIPE, BENT TIED SPIN POINT, DOWN 0.4', MONTEE ADDITION
1010	41776.55	38631.14	8+97.09	45.75' RT	04/07/09	FD 1/2" IRON ROD INSIDE PIPE W/ALUMINUM FENCE POST CAP, GOOD COND, FLUSH, MONTEE ADDITION
1011	41767.77	38661.62	8+66.65	36.85' RT	04/07/09	FD 1/2" IRON ROD INSIDE PIPE W/ALUMINUM FENCE POST CAP, GOOD COND, DOWN 0.5', MONTEE ADDITION
1012	41767.67	38721.07	8+07.20	36.50' RT	04/07/09	FD 1/2" IRON ROD INSIDE PIPE W/ALUMINUM FENCE POST CAP, GOOD COND, DOWN 0.1', MONTEE ADDITION
1013	41767.39	38821.08	7+07.18	35.81' RT	04/07/09	FD 1" ID IRON PIPE, GOOD COND, FLUSH, MONTEE ADDITION
1023	41699.52	38302.19	12+26.35	29.91' LT	04/07/09	FD 1/2" IRON ROD, GOOD COND, DOWN 0.8', SN 0-97-A

REGISTERED PROFESSIONAL LAND SURVEYOR  
*Bret Elithorp*  
 OREGON  
 JAN 14, 2003  
 BRET N. ELITHORP  
 \*63148  
 RENEWAL DATE: DEC. 31, 2009  
 SIGNED: *B/E/09*

OBEC CONSULTING ENGINEERS  
 Corporate Office: 920 COUNTRY CLUB ROAD, SUITE 100B EUGENE, OREGON 97401-6089, 541-683-6090  
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FILE NAME: 706001ret.dgn

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 Umatilla County Survey SW QUINNEY AVENUE  
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 SHEET 3 OF 3

DESIGNED: B. ELITHORP  
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 PROJ. NO. 706001