

SHEET INDEX

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

NARRATIVE

THE PURPOSE OF THIS SURVEY IS TO RESOLVE THE FIELD LOCATION OF THE EXISTING RIGHTS-OF-WAY FOR "M" STREET BETWEEN APPELGATE ROAD AND STERLING STREET AND A PORTION OF ELM STREET BETWEEN OREGON STREET AND APPELGATE ROAD, BOTH STREETS ARE LOCATED IN THE CITY OF JACKSONVILLE, OREGON. THIS SURVEY WAS ALSO PERFORMED TO PERPETUATE THE POSITIONS OF ANY EXISTING SURVEY MONUMENTS THAT LIE NEAR THE PROJECT AREA BY TYING THE MONUMENTS TO THE PROJECT CONTROL NETWORK. THIS SURVEY WAS MADE AT THE REQUEST OF THE OREGON DEPARTMENT OF TRANSPORTATION (ODOT) AND THE CITY OF JACKSONVILLE FOR AN UPCOMING PROJECT IN THE PREVIOUSLY DESCRIBED VICINITY. THIS SURVEY MEETS THE REQUIREMENTS FOR A RECOVERY SURVEY AS OUTLINED IN THE OREGON REVISED STATUTES, CHAPTER 209.155.

THIS SURVEY WAS PERFORMED IN INTERNATIONAL FEET UNITS.

CONTROL POINTS FOR THIS SURVEY WERE NOT SET ON AND DO NOT REPRESENT PROPERTY LINES OR RIGHT-OF-WAY LINES AND ARE INTENDED FOR USE SOLELY BY ODOT, THE CITY OF JACKSONVILLE, AND OBEC CONSULTING ENGINEERS IN SUPPORT OF FUTURE PROJECTS. IT IS NOT THE INTENT OF ODOT, THE CITY OF JACKSONVILLE, OR OBEC CONSULTING ENGINEERS TO PERPETUATE THESE CONTROL POINTS AS MONUMENTS.

THIS SURVEY WAS PERFORMED IN DECEMBER OF 2007 AND JANUARY OF 2008. THE SURVEY EQUIPMENT CONSISTED OF TWO TRIMBLE R8 GPS RECEIVERS, ONE TRIMBLE 5700 GPS RECEIVER, ONE TRIMBLE S6 ROBOTIC TOTAL STATION, ONE TRIMBLE 5603 ROBOTIC TOTAL STATION, TWO TRIMBLE TSC2 DATA COLLECTORS, AND ONE SOKKIA SDL30 DIGITAL LEVEL.

"M" STREET ("M" LINE)

THE RESOLUTION OF THE RIGHT-OF-WAY OF "M" STREET WAS COMPLETED BY UTILIZING THE PLAT OF KITCHEN SUBDIVISION. THE RIGHT-OF-WAY CURVE ON THE NORTH END OF LOTS 11 AND 12 WAS LOCATED BY HOLDING POINT NO. 1013 AND THE RECORD CURVE RADIUS OF 29.56 FEET PER THE PLAT OF KITCHEN SUBDIVISION TANGENT WITH THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF APPELGATE ROAD. THE CENTERLINE CURVE BETWEEN STATIONS "M" 0+59.76 PC AND "M" 2+12.99 PT WAS DETERMINED BY HOLDING POINT NO 1006 AND THE RECORD SOUTHERLY RIGHT-OF-WAY CURVE RADIUS OF 229.59 FEET TANGENT TO THE AFORE MENTIONED RIGHT-OF-WAY CURVE AND THEN OFFSETTING IT THE RECORD WIDTH OF 20.00 FEET. THE INTERSECTION OF THE SOUTHEASTERLY RIGHT-OF-WAY LINE OF APPELGATE ROAD AND THE CENTERLINE OF "M" STREET WAS DERIVED BY HOLDING THE RECORD DISTANCE FROM THE SOUTHWEST CORNER OF PARCEL 1 OF PARTITION PLAT NO. P-79-1992 TO THE NORTHWEST CORNER OF LOT 12 OF KITCHEN SUBDIVISION, 279.58 FEET PLUS THE RECORD WIDTH OF 49.56 FEET PER THE PLAT OF KITCHEN SUBDIVISION. THE TANGENT BETWEEN STATIONS "M" 0+00.00 AND "M" 0+59.76 PC WAS THEN DEFINED BY HOLDING THE LOCATION OF THE PREVIOUSLY DESCRIBED INTERSECTION AND THEN GOING TANGENT TO THE "M" STREET CENTERLINE CURVE AND EXTENDING THIS LINE TO THE CENTERLINE OF APPELGATE ROAD, AS DEFINED BY A LINE BETWEEN FOUND MONUMENTS AT POINT NO'S 1016 AND 1015. THE TANGENT BETWEEN STATIONS "M" 2+12.99 PT AND "M" 4+59.52 WAS LOCATED BY HOLDING 20.00 FEET FROM POINT NO. 1003 ALONG THE WESTERLY RIGHT-OF-WAY LINE OF STERLING STREET, AS DEFINED BY A LINE BETWEEN FOUND MONUMENTS AT POINT NO'S 1003 AND 1001 AND THEN GOING TANGENT TO THE "M" STREET CENTERLINE CURVE PREVIOUSLY DESCRIBED.

THE RIGHT-OF-WAY LINE WERE OFFSET RECORD DIMENSIONS, PER THE PLAT OF KITCHEN SUBDIVISION, OF 20.00 FEET EACH SIDE OF THE RESOLVED CENTERLINE.

ELM STREET ("E" LINE)

THE RESOLUTION OF THE RIGHT-OF-WAY OF ELM STREET WAS COMPLETED BY UTILIZING MONUMENTS FOUND PER COUNTY SURVEYS 2449 AND 15488. THE CENTERLINE INTERSECTION OF OREGON STREET AND ELM STREETS WAS LOCATED BY HOLDING POINT NO'S 1017 AND 1018 FOR THE CENTERLINE OF OREGON STREET AND USING THE RECORD DISTANCE FROM POINT NO. 1018 TO SAID INTERSECTION PER CS 11645. THE EAST END OF THE CENTERLINE ALIGNMENT WAS CONSTRAINED BY POINT NO. 1015.

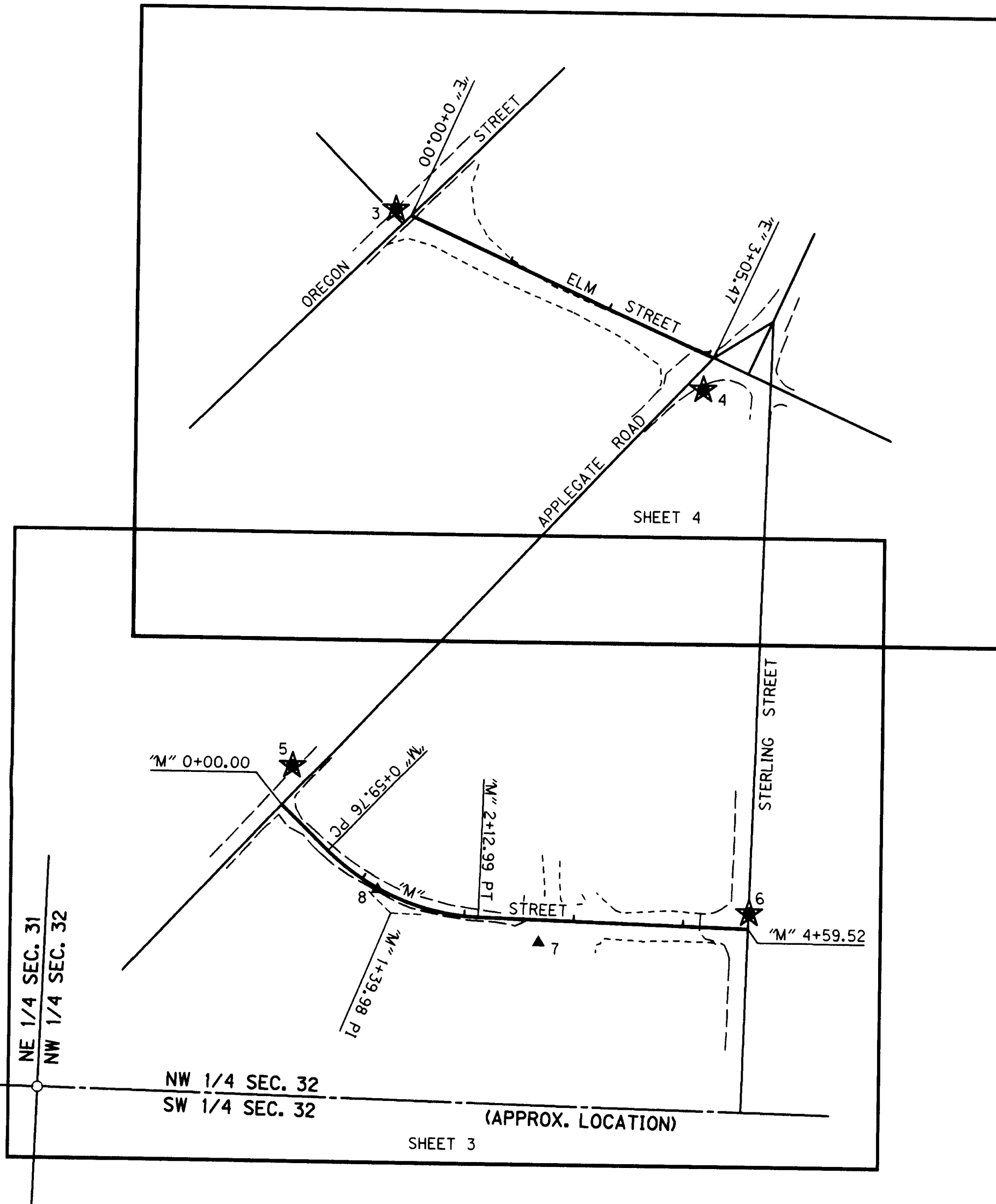
REFERENCES

CS 5997, CS 17328, CS 11645, CS 13081, CS 4076, CS 2449, CS 11231, CS 16522, CS 6399, CS 13081 (P-79-1992), CS 15488, CS 19025, CS 6902, CS 3530, CS 18781, CS 18761, CS 6986, MAP OF JACKSONVILLE, PLAT OF KITCHEN SUBDIVISION, JACKSON COUNTY SURVEYOR CORNER REESTABLISHMENT NOTES (GCDB 200140), INSTRUMENT NO. 2006-039246

DEEDS USED

87-16666, 2005-17194, 2004-162783, 01-54261, 01-18138, 87-16715, 02-23945, 2004-033957, 2006-063280, 00-11569

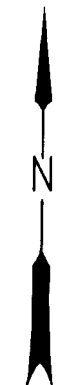
NW1/4 SEC 32 T37S R2W WM



SHEET LAYOUT DIAGRAM

NOT TO SCALE

*** RECEIVED ***
DATE 2/15/08 BY see
This survey consists of:
4 sheet(s) Map
0 page(s) Narrative
JACKSON COUNTY
SURVEYOR



LEGEND	
★	SET GPS NETWORK POINT
▲	SET NETWORK POINT

ENGLISH
REGISTERED
PROFESSIONAL
LAND SURVEYOR

ARON J. CUTSFORTH
65696
RENEWAL DATE: DEC. 31, 2009
SIGNED: February 14, 2008

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
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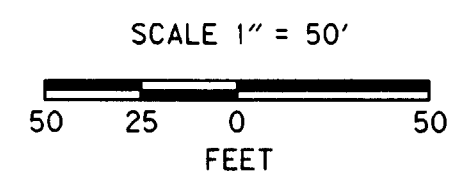
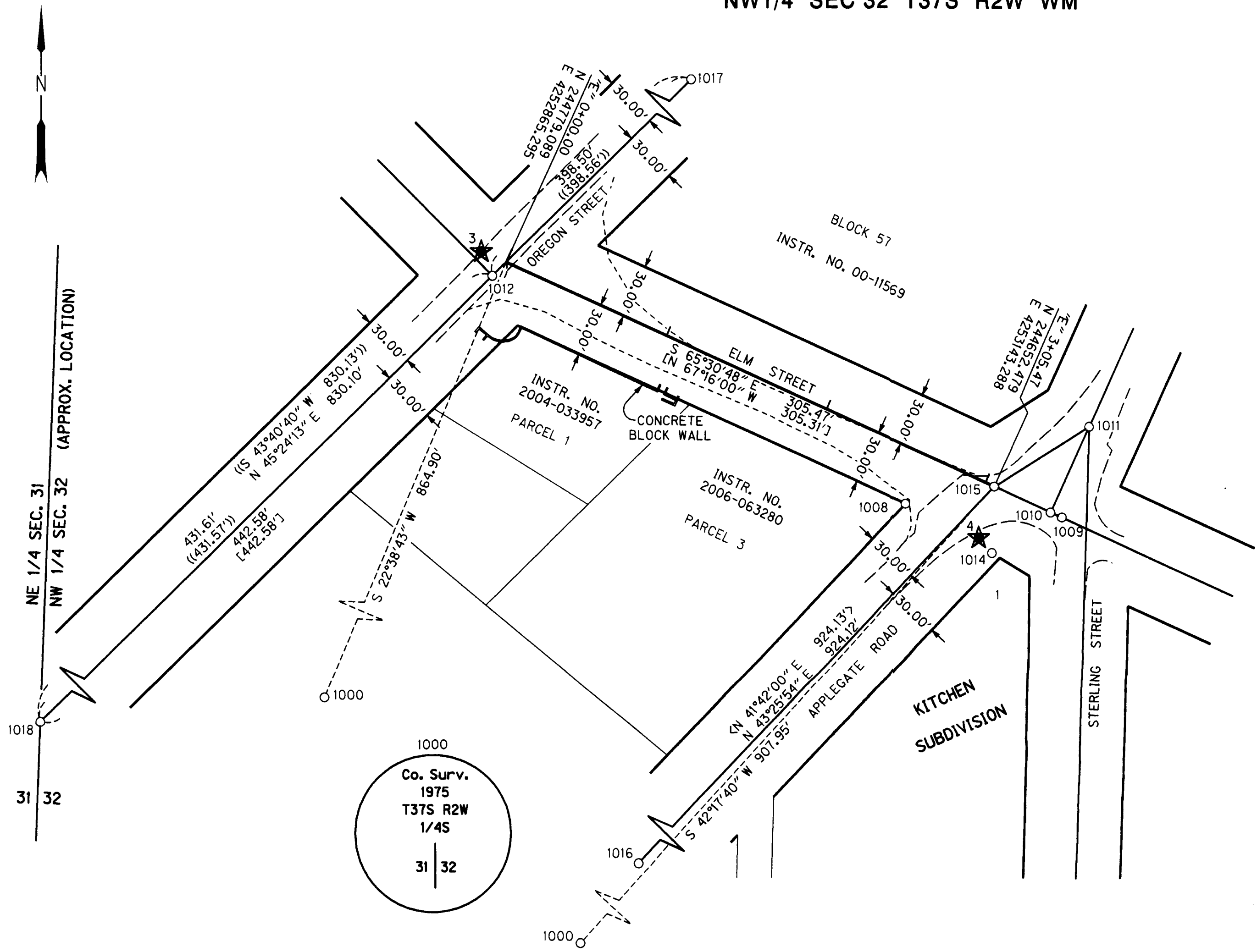
OREGON DEPARTMENT OF TRANSPORTATION
HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
ELM & M STREETS PAVING
CITY OF JACKSONVILLE
JACKSON COUNTY

ODOT REGION 3
3500 NW STEWART PARKWAY
ROSEBURG, OR. 97470
KEY NO. 15251
FEBRUARY, 2008
NO SCALE
SHEET 1 OF 4

JIM COLTON	OBEC	DESIGNED: ARON CUTSFORTH	PROJ. NO. 19-84.12
APPROVED BY: SURV. GROUP MNGR.		DRAWN: DAVID JOHN	CHK'D: ANDY AUSLAND

NW1/4 SEC 32 T37S R2W WM

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 JACKSON COUNTY
 SURVEYOR



LEGEND	
[]	RECORD DATA PER CS 11645
< >	RECORD DATA PER CS 4076
(())	RECORD DATA PER CS 15488
○	FOUND MONUMENT NOTED IN TABLE
★	SET GPS NETWORK POINT
—	RIGHT-OF-WAY
—	PROPERTY LINE
- - -	EDGE OF PAVEMENT
- - -	EDGE OF GRAVEL

1000
 Co. Surv.
 1975
 T37S R2W
 1/4S
 31 | 32

FD = FOUND
 I.D. = INSIDE DIAMETER
 YPC = YELLOW PLASTIC CAP
 J.C.R.R. = JACKSON COUNTY REESTABLISHMENT RECORDS

RECOVERED MONUMENT LIST

PT. NO.	LDP NORTHING	LDP EASTING	STATION	OFFSET	DATE	DESCRIPTION & REFERENCE DOCUMENTS
1000	243980.87	4252532.29	N/A	N/A	12/17/07	FD 2-1/2" BRONZE DISK STAMPED "CO. SURV. 1975 T37S R2W 1/4S 31 32", DOWN 1.4', GOOD CONDITION, PER J.C.R.R.
1008	244642.61	4253092.63	"E" 2+63.46	29.98' RT	12/17/07	FD 5/8" IRON ROD W/ YPC STAMPED "ANDREWS - PLS 1626", GOOD CONDITION, FLUSH W/ GROUND, PER CS 11645
1009	244635.08	4253181.79	N/A	N/A	12/17/07	FD 5/8" IRON ROD, DOWN 0.5', BENT (NORTH), NO RECORD
1010	244637.91	4253175.37	N/A	N/A	12/17/07	FD 5/8" IRON ROD, DOWN 0.4', GOOD CONDITION, PER CS 6986
1011	244686.69	4253197.42	N/A	N/A	12/17/07	FD 5/8" IRON ROD, DOWN 1.2', GOOD CONDITION, PER CS 2449
1012	244771.35	4252857.51	N/A	N/A	12/17/07	FD 5/8" IRON ROD W/ 1-1/2" ALUM. CAP (ILLEGIBLE), FLUSH W/ GROUND, GOOD CONDITION, PER CS 15488
1014	244614.88	4253142.05	N/A	N/A	12/17/07	FD 3/4" I.D. PIPE, BENT, FLUSH W/ GROUND, PER KITCHEN SUBDIVISION
1015	244652.48	4253143.29	"E" 3+05.47	0.00'	01/11/08	FD 5/8" IRON ROD, DOWN 0.5', GOOD CONDITION, AS SHOWN PER CS 4076
1016	243981.38	4252507.96	N/A	N/A	01/16/08	FD 5/8" IRON ROD, DOWN 0.6', GOOD CONDITION, PER CS 2449
1017	245051.17	4253141.24	N/A	N/A	01/16/08	FD 5/8" IRON ROD W/ 1-1/2" ALUM. CAP STAMPED "KAISER - PLS 803", FLUSH W/ GROUND, GOOD CONDITION, PER CS 15488
1018	244468.35	4252550.15	N/A	N/A	01/16/08	FD 5/8" IRON ROD, DOWN 2.2', GOOD CONDITION, INSIDE IRRIGATION CONTROL BOX, PER CS 2449

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 PROFESSIONAL
 LAND SURVEYOR
 ARON J. CUTSFORTH
 65696
 RENEWAL DATE: DEC. 31, 2009
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FILE NAME: 15251ret.dgn

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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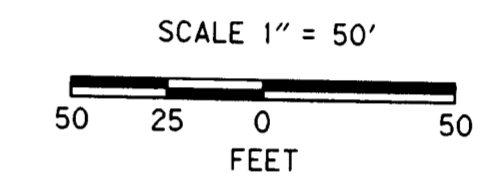
OREGON DEPARTMENT OF TRANSPORTATION
 HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
 ELM & M STREETS PAVING
 CITY OF JACKSONVILLE
 JACKSON COUNTY

ODOT REGION 3
 3500 NW STEWART PARKWAY
 ROSEBURG, OR. 97470
 DESIGNED: ARON CUTSFORTH
 DRAWN: DAVID JOHN

FEBRUARY, 2008
 1" = 50'
 KEY NO. 15251
 SHEET 4 OF 4
 PROJ. NO. 19-84.12
 CHK'D: ANDY AUSLAND

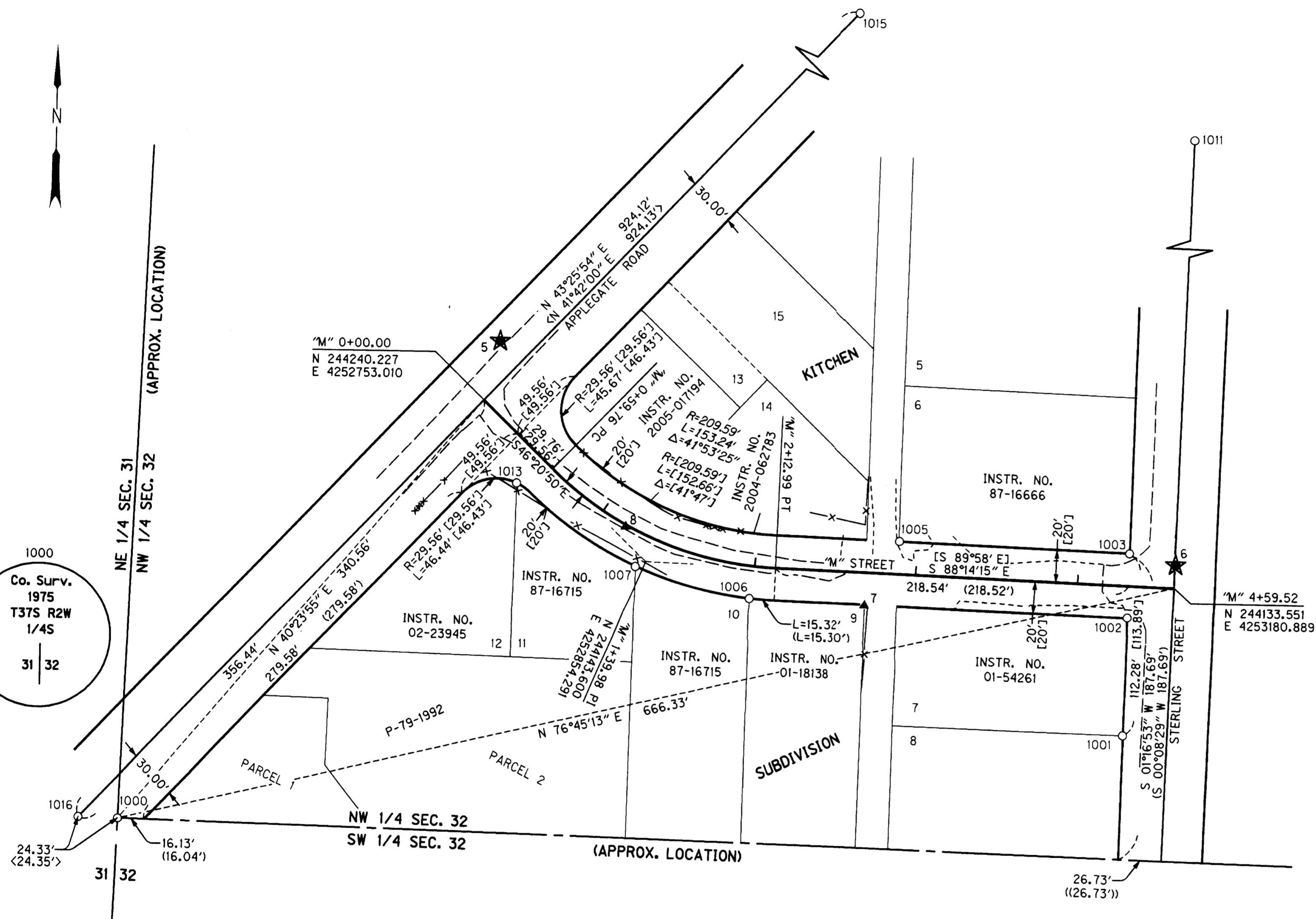
NW1/4 SEC 32 T37S R2W WM

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1001	244042.16	4253150.85	N/A	N/A	12/17/07	FD 3/4" I.D. PIPE, DOWN 0.1', GOOD CONDITION, PER KITCHEN SUBDIVISION
1002	244114.78	4253152.56	"M" 4+31.78	19.64' RT	12/17/07	FD 3/4" I.D. PIPE, DOWN 0.4', BENT, PER KITCHEN SUBDIVISION
1003	244154.40	4253153.36	"M" 4+31.36	20.00' LT	12/17/07	FD 3/4" I.D. PIPE, DOWN 0.1', GOOD CONDITION, PER KITCHEN SUBDIVISION
1005	244159.02	4253011.23	"M" 2+89.16	20.24' LT	12/17/07	FD 1" IRON ROD, DOWN 0.6', GOOD CONDITION, NO RECORD
1006	244122.12	4252918.58	"M" 1+99.01	20.00' RT	12/17/07	FD 5/8" IRON ROD W/ YPC STAMPED "TEMLIN - LS 2359", DOWN 0.1' GOOD CONDITION, PER CS 17328
1007	244140.46	4252848.00	"M" 1+32.18	20.21' RT	12/17/07	FD 5/8" IRON ROD W/ YPC STAMPED "TEMLIN - LS 2359", FLUSH W/ GROUND, GOOD CONDITION, PER CS 17328
1011	244686.69	4253197.42	N/A	N/A	12/17/07	FD 5/8" IRON ROD, DOWN 1.2', GOOD CONDITION, PER CS 2449
1013	244190.13	4252774.06	"M" 0+49.82	21.72' RT	12/17/07	FD 3/4" I.D. PIPE, DOWN 0.1', GOOD CONDITION, PER KITCHEN SUBDIVISION
1015	244652.48	4253143.29	N/A	N/A	01/11/08	FD 5/8" IRON ROD, DOWN 0.5', GOOD CONDITION, AS SHOWN PER CS 4076
1016	243981.38	4252507.96	N/A	N/A	01/16/08	FD 5/8" IRON ROD, DOWN 0.6', GOOD CONDITION, PER CS 2449

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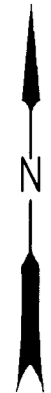
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 SHEET 3 OF 4

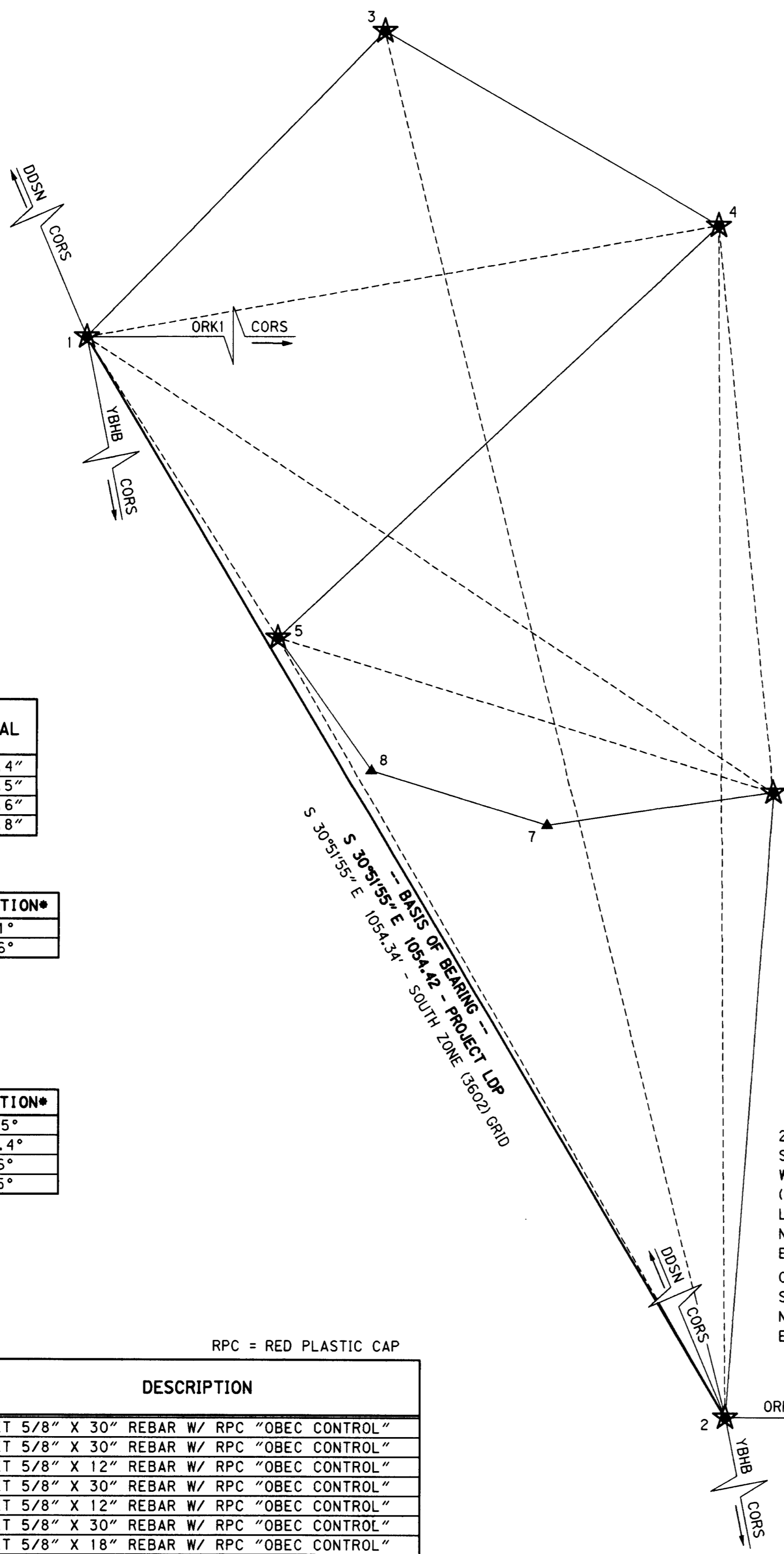
DESIGNED: ARON CUTSFORTH
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NW1/4 SEC 32 T37S R2W WM
SW 1/4 SEC 32 T37S R2W WM

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JACKSON COUNTY
SURVEYOR



1
SET 5/8" x 30" REBAR
W/RPC "OBEC CONTROL"
(12/17/07)
LDP PROJECT VALUES
N 244528.73
E 4252600.56
OREGON STATE PLANE
SOUTH ZONE (3602)
N 244511.06
E 4252293.35



CONTROL NARRATIVE

PROJECT: ELM & M STREETS PAVING
LOCATION: CITY OF JACKSONVILLE, JACKSON COUNTY
OBEC PROJECT: 19-84.12
SURVEY DATUM:
HORIZONTAL - NAD 83(CORS96) EPOCH 2002 (INTERNATIONAL FEET)
VERTICAL - NAVD 88 (INTERNATIONAL FEET)

PRIMARY HORIZONTAL CONTROL WAS BROUGHT INTO THE PROJECT BY PROCESSING AGAINST CORS STATIONS "DDSN", "YBHB", AND "ORK1" AND ESTABLISHING POSITIONS ON POINTS 1 AND 2. A SUBSEQUENT STATIC GPS SURVEY WAS PERFORMED TO ESTABLISH POSITIONS FOR POINTS 3 THROUGH 6. THE COORDINATE SYSTEM WAS HELD AT OREGON STATE PLANE - SOUTH ZONE (3602), UNTIL ALL GPS CONTROL SURVEYING AND ADJUSTMENTS WERE COMPLETE, THEN ALL POINTS WERE MOVED TO GROUND (LOCAL DATUM PLANE COORDINATE SYSTEM). POINTS 7 AND 8 WERE THEN ESTABLISHED FROM A LEAST SQUARES ADJUSTED CONVENTIONAL TRAVERSE HOLDING POINTS 2, 4, 5 AND 6 FIXED. TO CONVERT THE PROJECT LDP COORDINATES TO THE OREGON STATE PLANE COORDINATE SYSTEM - SOUTH ZONE NAD 83(CORS96) EPOCH 2002, MULTIPLY THE COORDINATE VALUES BY A COMBINED FACTOR OF 0.99992776.

RESIDUALS FOR DISTANCES

BETWEEN	DISTANCE**	DISTANCE RESIDUAL
6 7	194.06'	0.00'
7 8	155.01'	-0.01'
8 5	137.03'	0.00'

** CALCULATED HORIZONTAL DISTANCES IN FEET DERIVED FROM THE MEASURED SLOPE DISTANCES

RESIDUALS FOR ANGLES

BACKSIGHT STATION	OCCUPIED STATION	FORESIGHT STATION	RESIDUAL
2	6	7	-0°00'01.4"
6	7	8	-0°00'05.5"
7	8	5	-0°00'22.6"
8	5	4	-0°00'27.8"

1.96 SIGMA (95%) CONFIDENCE LEVEL LIMITS

POINT NO	SEMI MAJOR	SEMI MINOR	ORIENTATION*
7	0.02' INT FT	0.02' INT FT	77.1°
8	0.02' INT FT	0.02' INT FT	79.6°

*** NORTH AZIMUTH**

FIXED POINTS NOT SUBJECT TO LEAST SQUARES ADJUSTMENT OR CONFIDENCE LEVEL ANALYSIS: POINTS 2, 4, 5 & 6

1.96 SIGMA (95%) CONFIDENCE LEVEL LIMITS

POINT NO	SEMI MAJOR	SEMI MINOR	ORIENTATION*
3	0.03 INT FT	0.02 INT FT	266.5°
4	0.02 INT FT	0.02 INT FT	233.4°
5	0.02 INT FT	0.02 INT FT	61.6°
6	0.02 INT FT	0.02 INT FT	83.5°

*** NORTH AZIMUTH**

FIXED POINTS NOT SUBJECT TO LEAST SQUARES ADJUSTMENT OR CONFIDENCE LEVEL ANALYSIS: POINTS 1, 2, DDSN, YBHB AND ORK1

CONTROL NETWORK SCHEMATIC & BASIS OF BEARING

NOT TO SCALE

LEGEND	
	SET GPS NETWORK POINT
	SET NETWORK POINT
	LINES OF OBSERVATION (NOT INTERVISIBLE)
	LINES OF OBSERVATION (INTERVISIBLE)

FILE NAME: 15251ret.dgn

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OREGON DEPARTMENT OF TRANSPORTATION

HORIZONTAL CONTROL, RECOVERY AND RETRACEMENT SURVEY
ELM & M STREETS PAVING
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JACKSON COUNTY

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3500 NW STEWART PARKWAY
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FEBRUARY, 2008
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KEY NO. 15251
SHEET 2 OF 4

DESIGNED: ARON CUTSFORTH
DRAWN: DAVID JOHN
CHK'D: ANDY AUSLAND
PROJ. NO. 19-84.12

NETWORK POINT COORDINATE TABLE

RPC = RED PLASTIC CAP

PT. ID.	LDP NORTHING	LDP EASTING	DATE	DESCRIPTION
1	244528.73	4252600.56	12/17/07	SET 5/8" X 30" REBAR W/ RPC "OBEC CONTROL"
2	243623.64	4253141.50	12/17/07	SET 5/8" X 30" REBAR W/ RPC "OBEC CONTROL"
3	244784.90	4252851.18	12/17/07	SET 5/8" X 12" REBAR W/ RPC "OBEC CONTROL"
4	244623.33	4253134.39	12/17/07	SET 5/8" X 30" REBAR W/ RPC "OBEC CONTROL"
5	244276.63	4252762.43	12/17/07	SET 5/8" X 12" REBAR W/ RPC "OBEC CONTROL"
6	244147.63	4253181.64	12/17/07	SET 5/8" X 30" REBAR W/ RPC "OBEC CONTROL"
7	244118.98	4252989.71	12/17/07	SET 5/8" X 18" REBAR W/ RPC "OBEC CONTROL"
8	244164.81	4252841.63	12/17/07	SET MAGNAIL & WASHER "OBEC CONTROL"

ENGLISH
REGISTERED PROFESSIONAL LAND SURVEYOR

OREGON
JULY 12, 2005
ARON J. CUTSFORTH
65696

RENEWAL DATE: DEC. 31, 2009
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