

# BEZONA MOBILE HOME PARK ASBUILT - SANITARY SEWER EXTENSION

SITUATE IN A PORTION OF THE SE 1/4, SW 1/4 OF SECTION 17, T. 39 N., R. 2 E., W.M.  
CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON

## LEGEND

- = FND CORNER PLS#13139
- ✕ = TRAVERSE WORK POINT
- = EXISTING CHAIN LINK FENCE
- = EXISTING WOOD FENCE
- = EXIST MAIL BOX
- = EXIST SIGN
- = EXIST POWER VAULT
- = EXIST UNDERGROUND POWER
- = EXIST POWER/AND OR UTILITY POLE
- = EXIST GUY WIRE
- = EXIST OVERHEAD UTILITIES (UNKNOWN)
- = EXIST SANITARY SEWER MANHOLE
- = EXIST SANITARY SEWER CLEANOUT
- = EXIST SANITARY SEWER SERVICE STUB
- = EXISTING SANITARY SEWER LIFT STATION
- = EXIST SEPTIC TANK VENT
- = EXIST SANITARY SEWER LINE
- = EXIST 21" SANITARY SEWER MAIN LINE & FLOW DIRECTION
- = EXIST CHERRY TREE
- = EXIST CEDAR TREE
- = EXIST BIRCH TREE
- = EXIST FIR TREE
- = EXIST SPRUCE TREE
- = EXIST DECIDUOUS TREE
- = EXIST ORNAMENTAL TREE
- = EXIST TELEPHONE PEDESTAL
- = EXIST UNDERGROUND TV CABLE
- = EXIST TV BOX
- = EXIST GAS MAIN
- = EXIST ELECTRIC METER
- = EXISTING WATER VALVE
- = EXISTING FIRE HYDRANT
- = EXISTING WATER METER BOX
- = EXISTING WELL
- = EXISTING WATER SERVICE CONNECT
- = EXIST WATER LINE
- = EXISTING WATER HOSE BIB
- = EXIST TOP OF BANK
- = EXISTING CENTERLINE OF DITCH
- = SPOT ELEVATION ON EXIST GROUND
- = SPOT ELEVATION ON EXIST EDGE OF ASPHALT PAVEMENT
- = SPOT ELEVATION ON EXIST EDGE OF CONCRETE
- = SPOT ELEVATION ON EXIST EDGE OF GRAVEL
- = SPOT ELEVATION ON EXIST CENTERLINE OF PAVED ROAD
- = SPOT ELEVATION ON EXIST CENTERLINE OF DITCH
- = EXIST GAS METER
- = EXIST ELECTRIC STAND BOX
- = PROPOSED SEWER MANHOLE
- = PROPOSED SANITARY SEWER LINE
- = PROPOSED SANITARY SEWER SERVICE CONNECT
- = PROPOSED SEWER CLEANOUT

## EROSION CONTROL NOTES

1. APPROVAL OF THE EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
2. THE IMPLEMENTATION OF THE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. THE ESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS (MAY 1ST - SEPT. 30TH) OR TWO DAYS (OCT. 1ST - APRIL 1ST) SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED ESC METHODS (E.G., SEEDING, MULCHING, NETTING, EROSION BLANKETS, ETC.).
8. ANY AREA NEEDING ESC MEASURE, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
10. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSIDE SYSTEM.
11. STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
12. DURING THE TIME PERIOD OF NOVEMBER 1 THROUGH MARCH 31, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, SODDING OR PLASTIC COVERING.
14. PUBLIC RIGHTS OF WAY SHALL BE KEPT IN A CLEAN AND SERVICEABLE MANNER AT ALL TIMES. IN THE EVENT MATERIAL ARE INADVERTENTLY DEPOSITED ON ROADWAYS, THE MATERIAL SHALL BE PROMPTLY REMOVED. MATERIALS ARE TO BE SWEEPED AND REMOVED PRIOR TO ANY FLUSHING. PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION.

## SANITARY SEWER NOTES

- SANITARY SEWER SPECIFICATIONS**
1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERNDAL DEVELOPMENT STANDARDS SECTION 5 AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDAL.
  2. FOUR INCH THROUGH TWELVE-INCH PIPE SHALL BE PVC PIPE CONFORMING TO ASTM D-3034, SDR-35 OR EQUAL. PIPE JOINTS SHALL BE MADE WITH FLEXIBLE GASKETS CONFORMING TO THE REQUIREMENTS OF SECTION 7-17.2 OF THE STANDARD SPECIFICATIONS.
  3. TRENCH EXCAVATION SHALL BE ACCORDING TO SECTION 7-08.3(1)A OF THE STANDARD SPECIFICATIONS.
  4. THE BEDDING SHALL BE PEA GRAVEL PER SS-1.
  5. PIPE LAYING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(2) OF THE STANDARD SPECIFICATIONS.
  6. ALL SIDE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF FERNDAL STANDARD PLAN SS-6 THROUGH SS-8. SIDE SEWERS SHALL BE MARKED WITH 2"x4" PVC LOCATION STAKE WITH TOP 18" PAINTED WHITE AND MARKED SEWER, ATTACH LOCATION WIRE.
  7. ALL TRENCH BACKFILL UNDER EXISTING OR FUTURE PAVING SHALL BE BANK RUN GRAVEL, CLASS "B" AND SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY.
  8. ALL SEWER PIPE WILL BE PRESSURE TESTED AND WILL BE SCANNED BY MEANS OF A TV CAMERA PRIOR TO ACCEPTANCE BY THE CITY OF FERNDAL. SEPARATION FROM THE CITY'S SYSTEM IS REQUIRED PRIOR TO CITY ACCEPTANCE.
  9. ALL MANHOLES WILL BE ACCORDING TO WSDOT B-236.
  10. ALL CLEANOUTS SHALL BE PER IBC.
  11. ALL HARD SURFACED PAVEMENTS MUST BE REPAIRED AT THE CLOSE OF EACH WORK DAY. THE REPAIRS CAN BE TEMPORARY WITH ASPHALT COLD MIX OR PERMANENT WITH HOT MIX ASPHALT OR CONCRETE.
  12. ALL WORK MUST BE INSPECTED AND APPROVED BY A REPRESENTATIVE OF THE CITY OF FERNDAL. PUBLIC WORKS, AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS.
  13. ALL TESTING SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A REPRESENTATIVE OF THE CITY OF FERNDAL.

## PROJECT INFORMATION

### OWNER

ROBERT CUNNINGHAM  
1215 12th STREET  
BELLINGHAM, WA 98225-7103

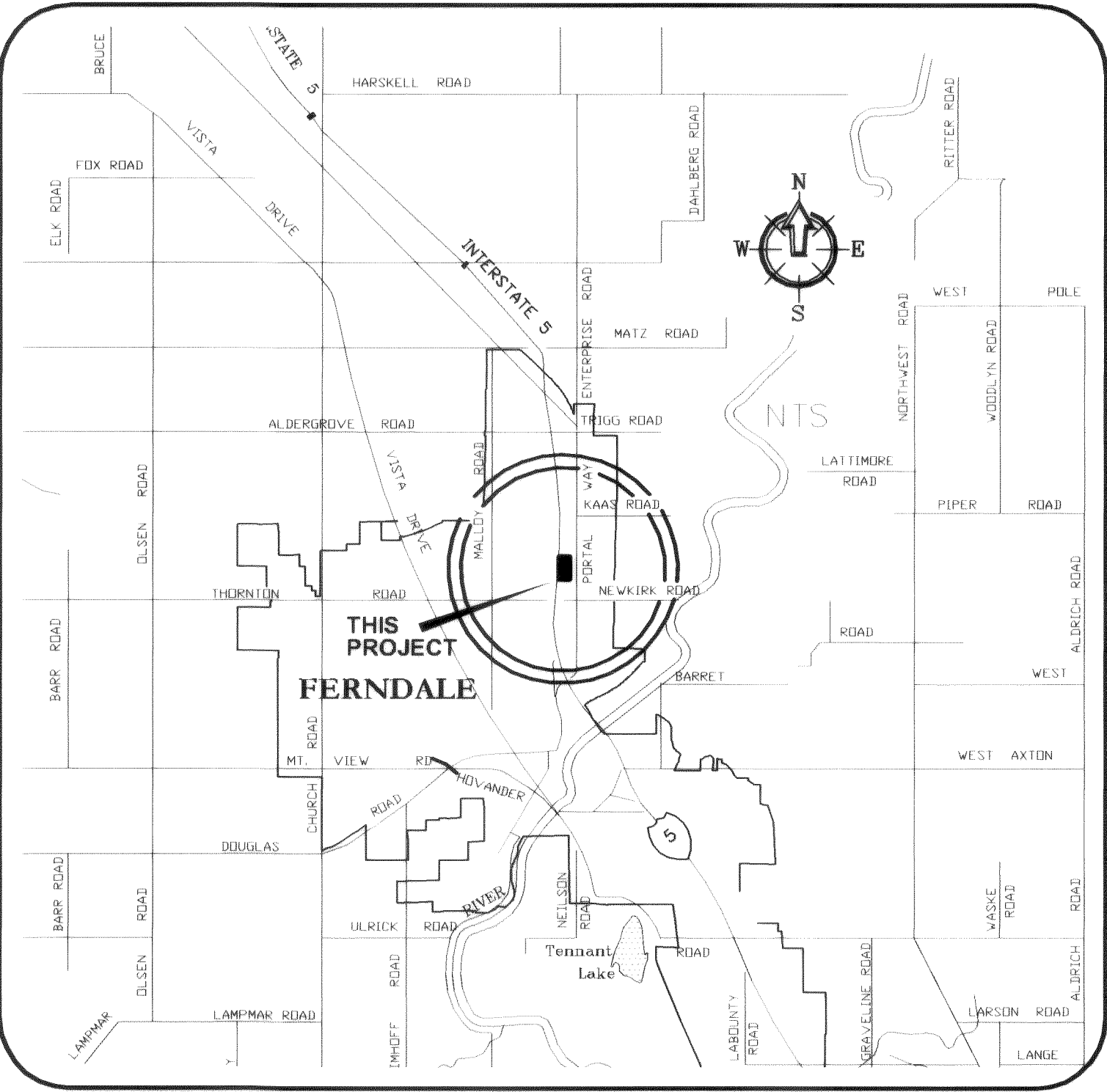
### CIVIL ENGINEER

FREELAND & ASSOCIATES, INC.  
TONY FREELAND, PE  
1408 NORTH GARDEN STREET  
BELLINGHAM, WA 98225  
(360) 650-1408  
(360) 650-1401 {FAX}

### SURVEYOR

BAYVIEW SURVEYING, INC  
RICK HOLT, PLS  
130 SHARON AVENUE  
BURLINGTON, WA 98233  
(360) 707-2580  
(360) 757-3976 {FAX}

## VICINITY MAP



## ABBREVIATIONS

- |          |                            |         |                           |
|----------|----------------------------|---------|---------------------------|
| WL       | = WATER LINE               | IE      | = INVERT ELEVATION        |
| PVC      | = POLY VINYL CHLORIDE      | INV     | = INVERT                  |
| D.I.     | = DUCTILE IRON             | SSCO    | = SANITARY SEWER CLEANOUT |
| LF       | = LINEAR FEET              | SSMH    | = SANITARY SEWER MANHOLE  |
| FH       | = FIRE HYDRANT             | EG      | = EXISTING GRADE          |
| MJ       | = MECHANICAL JOINT         | STA     | = STATION                 |
| FL       | = FLANGE                   | AF NO.  | = AUDITORS FILE NUMBER    |
| BO       | = BLOWOFF ASSEMBLY         | ALIGN   | = ALIGNMENT               |
| CPLG     | = COUPLING                 | R/W R/W | = RIGHT OF WAY            |
| ADAPT    | = ADAPTER                  | TR      | = TRACT EASEMENT LINE     |
| LT       | = LEFT                     | MB      | = MAIL BOX                |
| RT       | = RIGHT                    | UTIL    | = UTILITY                 |
| TYP      | = TYPICAL                  | REQ     | = REQUIRED                |
| EX, EXST | = EXISTING                 | LOC     | = LOCATION                |
| EXIST    | = EXISTING                 | APPROX  | = APPROXIMATE             |
| CL       | = CENTERLINE               | CONC    | = CONCRETE                |
| FF, FFE  | = FINISH FLOOR ELEVATION   | PLNTR   | = PLANTER                 |
| EP, EOP  | = EDGE OF PAVING           | VLK     | = WALKWAY                 |
| EL, ELEV | = ELEVATION                | FLD     | = FIELD                   |
| R        | = RADIUS                   | PC      | = POINT OF CURVE          |
| FG       | = FINISHED GRADE           | PT      | = POINT OF TANGENCY       |
| FGE      | = FINISHED GRADE ELEVATION | TP      | = TOP OF PAVEMENT         |
| TBC      | = TOP BACK OF CURB         | HP      | = HIGH POINT              |

## TOPO NOTES:

- 1) FOR THIS SURVEY DATA WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION BY BAYVIEW SURVEYING, INC. ON OR ABOUT 8-15-05. ALL COURSES & DISTANCES SHOWN HEREON WAS PROVIDED BY BASE MAP FROM BAYVIEW SURVEYING, INC.
- 2) EQUIPMENT USED: LEICA TORA EDM: ± 2 PPM, ± 2 MM
- 3) HORIZONTAL DATUM: CITY OF FERNDAL SURVEY MONUMENT NETWORK 2001. BASIS OF BEARINGS: FERNDAL 6 TO FERNDAL 3. BEARING: N01°53'08"E
- 4) VERTICAL DATUM: CITY OF FERNDAL SURVEY MONUMENT NETWORK 2001. BENCHMARK: FERNDAL 6. ELEV=48.96. TBM'S: WORK POINTS AS SHOWN ON FACE OF MAP HEREON.
- 5) CONTOUR INTERVAL IS 2 FOOT AND ARE COMPUTER GENERATED FROM FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.
- 6) FREELAND & ASSOCIATES, ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST THAT AREN'T DETECTABLE AND/OR NOT VISIBLE.
- 7) THIS TOPOGRAPHY MAP WAS DONE WITHOUT BENEFIT OF A CURRENT TITLE REPORT AND FREELAND & ASSOCIATES, IS NOT RESPONSIBLE FOR ANY EASEMENTS, COVENANTS, RESERVATIONS AND RESTRICTIONS NOT SHOWN HEREON, THAT MAY EXIST.

## SHEET INDEX

- C1) COVER SHEET
- C2) EXISTING CONDITIONS TOPOGRAPHY MAP
- C3) EROSION CONTROL PLAN
- C4) SANITARY SEWER PLAN & PROFILE

### Asbuilt Drawing Certification

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN BEZONA MOBILE HOME PARK HAVE BEEN INSPECTED BY FREELAND & ASSOCIATES, INC. AND CONSTRUCTED IN CONFORMANCE WITH THE PLANS APPROVED BY THE PUBLIC WORKS DIRECTOR FOR SAID DEVELOPMENT AND THE GENERAL SPECIFICATIONS ADOPTED BY THE CITY OF FERNDAL PUBLIC WORKS.

By: Mark G. F. Date: 8.13.07

APPROVED

NOV 23 2007  
BY Robert C.  
CITY OF FERNDAL

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555



1408 North Garden Street  
Bellingham, WA 98225

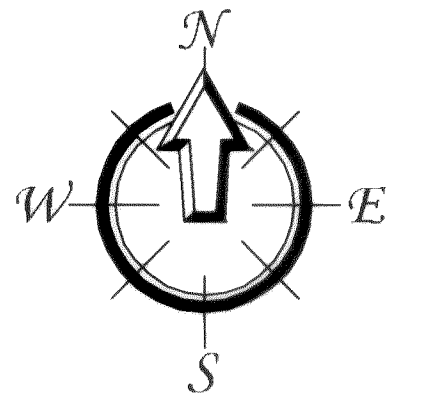
T: 360.650.1408  
F: 360.650.1401

DATE: 7-30-07  
JOB #: 05077  
SHEET: C1

**FREELAND & ASSOCIATES**

C1





GRAPHIC SCALE

1" = 30'

BENCH MARK  
FERDALE 6  
EL=48.96

SSM#1036  
RM=47.98  
N 1/4 100=33.98 21°PVC  
S 1/4 OUT=33.83 21°PVC

N 1/2 CENTERLINE OF  
SECTION 17

PORTAL WAY

SSM#1003  
RM=40.40  
N 1/4 100=30.60 21°PVC  
S 1/4 OUT=30.30 21°PVC

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By: 24 6 9 Date: 8.13.07

APPROVED

NOV 20 2007

BY Robert Gault  
CITY OF FERDALE



ASBUILT

EXPIRES: 8.8.07

SHEET CONTENTS:

EXISTING CONDITIONS  
TOPOGRAPHY MAP

DWG #: 05077PP\_ASB

DATE:

JOB #: 05077

7-30-07

SCALE:

SHEET:

H: 1"=30' V: n/a

C2

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DESIGNED BY:

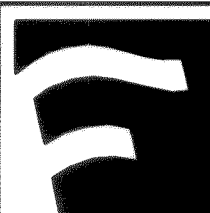
HAF

DRAWN BY:

AMM

CHECKED BY:

HAF



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Bellingham, WA 98225

t: 360.650.1408

f: 360.650.1401

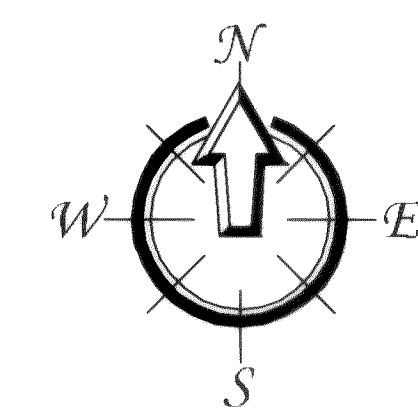
CLIENT:

SANDY JONES  
4061 ELIZA STREET  
BELLINGHAM, WA 98226

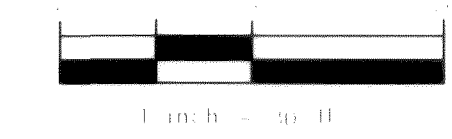
PROJECT LOCATION:

6165 PORTAL WAY  
FERDALE, WASHINGTON 98248

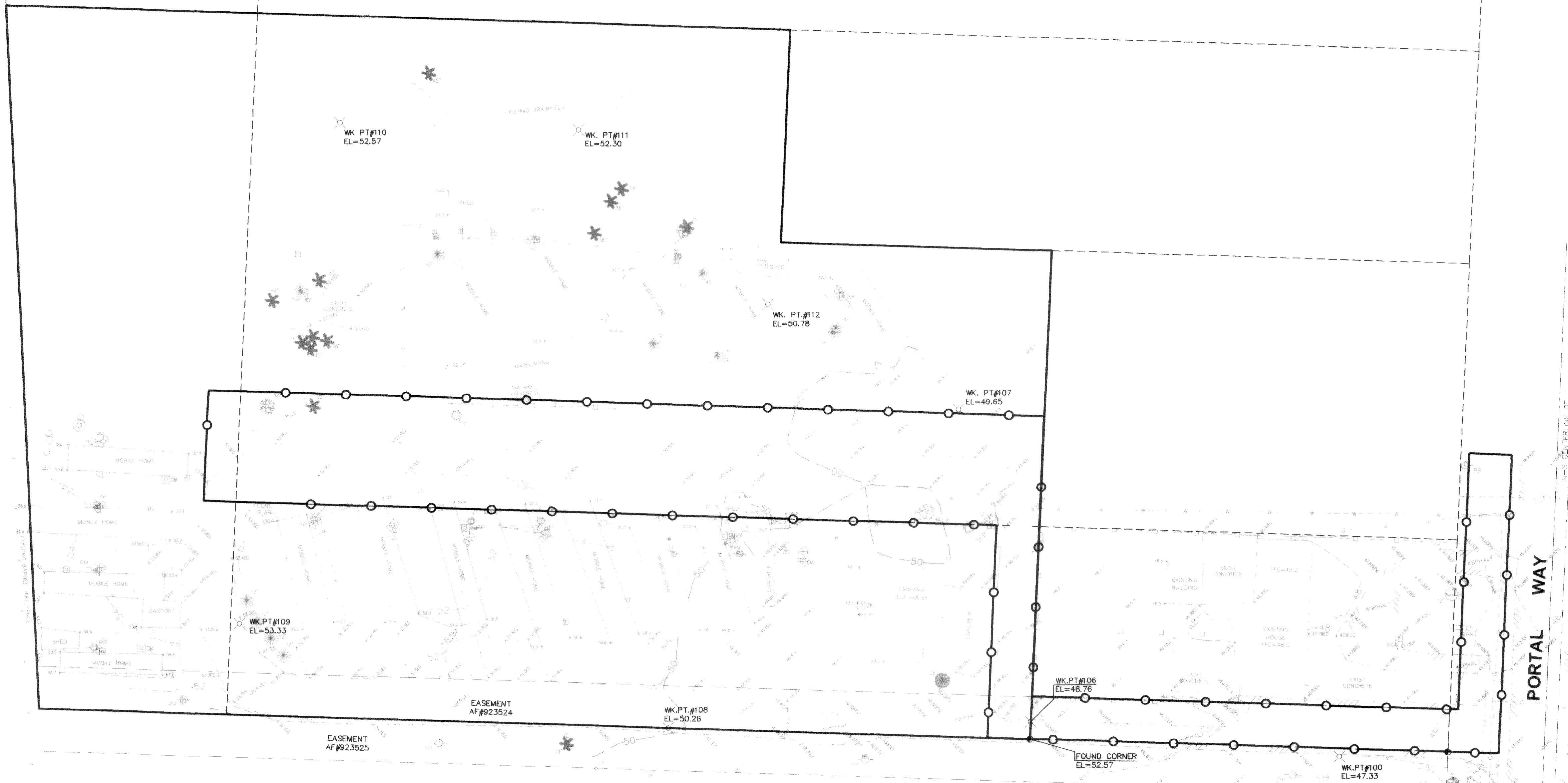
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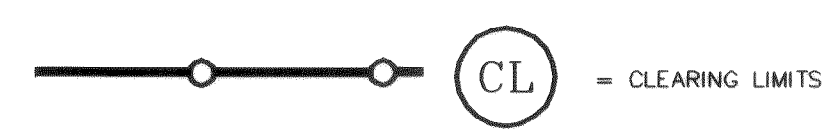
GRAPHIC SCALE



BENCH MARK  
FERNDALE 6  
EL=48.96



LEGEND



= CLEARING LIMITS

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By: Hu a Date: 8.13.07

APPROVED  
NOV 20 2007  
BY: Robert C. Smith  
CITY OF FERNDAL



ASBUILT

CALL BEFORE YOU DIG  
FOR BURIED UTILITY LOCATIONS  
1-800-424-5555

No.	Date	REVISION	By

DESIGNED BY:  
HAF  
DRAWN BY:  
AMM  
CHECKED BY:  
HAF



1408 North Garden Street  
Bellingham, WA 98225  
t: 360.650.1408  
f: 360.650.1401

**FREELAND**  
& ASSOCIATES

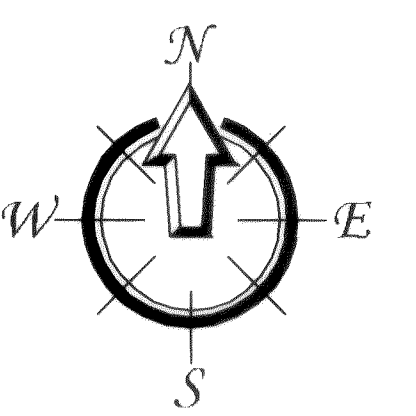
CLIENT: **ROBERT CUNNINGHAM**  
1215 12th STREET  
BELLINGHAM, WA 98225-7103  
PROJECT LOCATION: BEZONA MOBILE HOME PARK  
6165 PORTAL WAY  
FERNDAL, WASHINGTON 98248

SHEET CONTENTS:  
**EROSION CONTROL PLAN**

DWG #:	05077PP_ASB	DATE:	7-30-07
JOB #:	05077	SHEET:	C3
SCALE:	H: 1"=30' V: n/a		

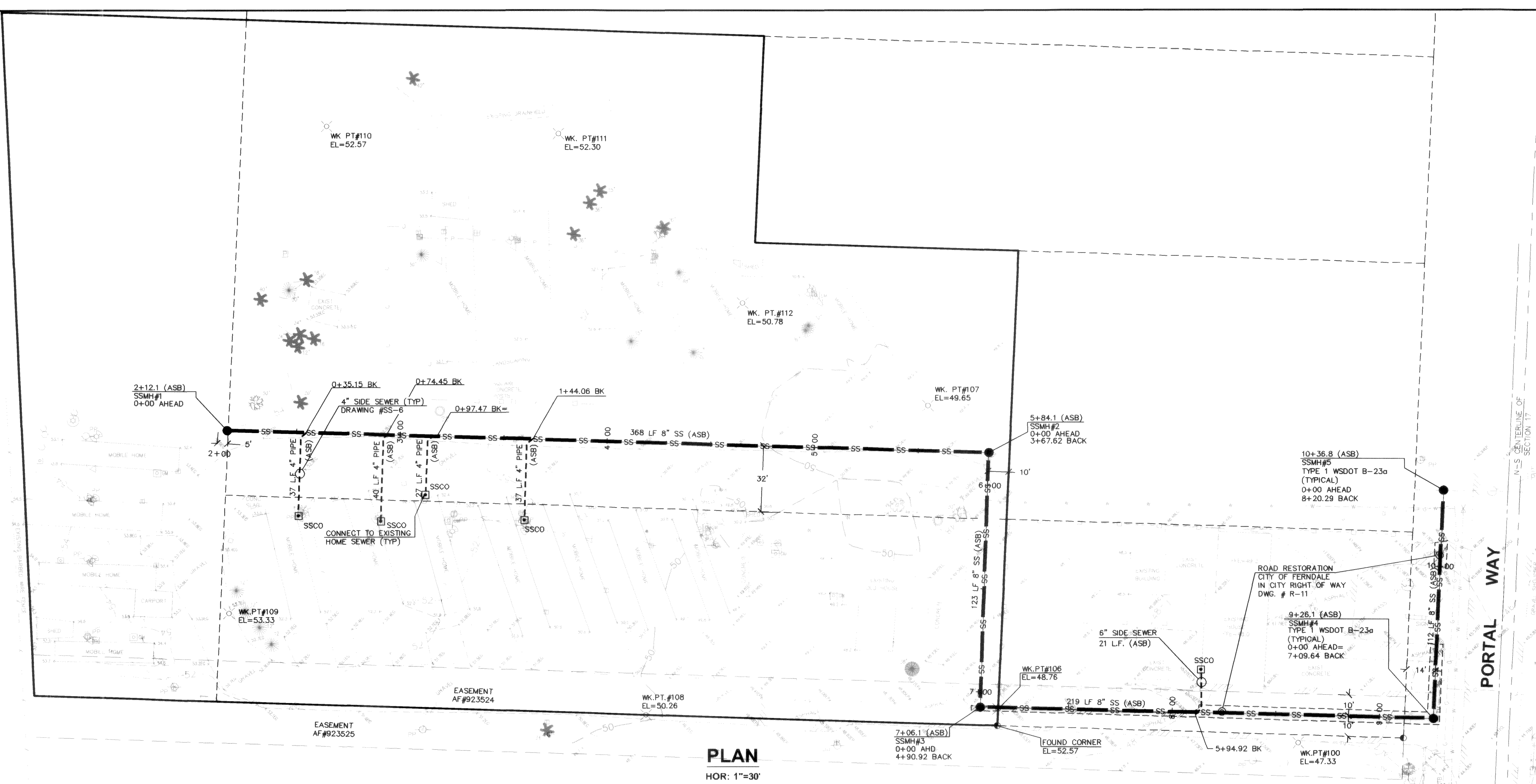


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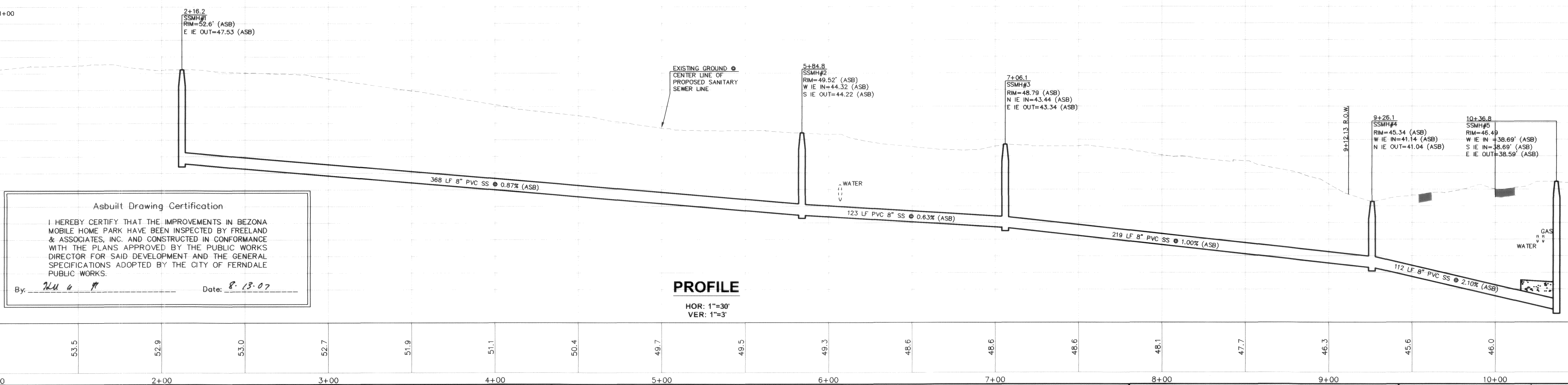


BENCH MARK  
FERNDALDE 6  
EL=48.96

SSMH#13.56  
RIM=47.98  
V IE IN=43.98 (ASB)  
V IE OUT=43.83 (21" PVC)



APPROVED  
NOV 1, 2007  
By: *Robert A. Cunningham*  
CITY OF FERNDALDE  
8-13-07



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By: *HAF* Date: *8-13-07*

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						DRAWN BY: AMM														JOB #: 05077		7-30	
						CHECKED BY: HAF																SHEET: <b>C</b>	
No.		Date		REVISION				By								PROJECT LOCATION: BEZONA MOBILE HOME PARK 6165 PORTAL WAY FERNDALDE, WASHINGTON 98248				SCALE: H: 1"=30'      V: 1"=3'			

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