

# FERNDALE FAMILY MEDICAL CENTER

SITUATE IN A PORTION OF THE SE 1/4, NE 1/4 OF SECTION 29, T. 39 N., R. 3EW., W.M.  
CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

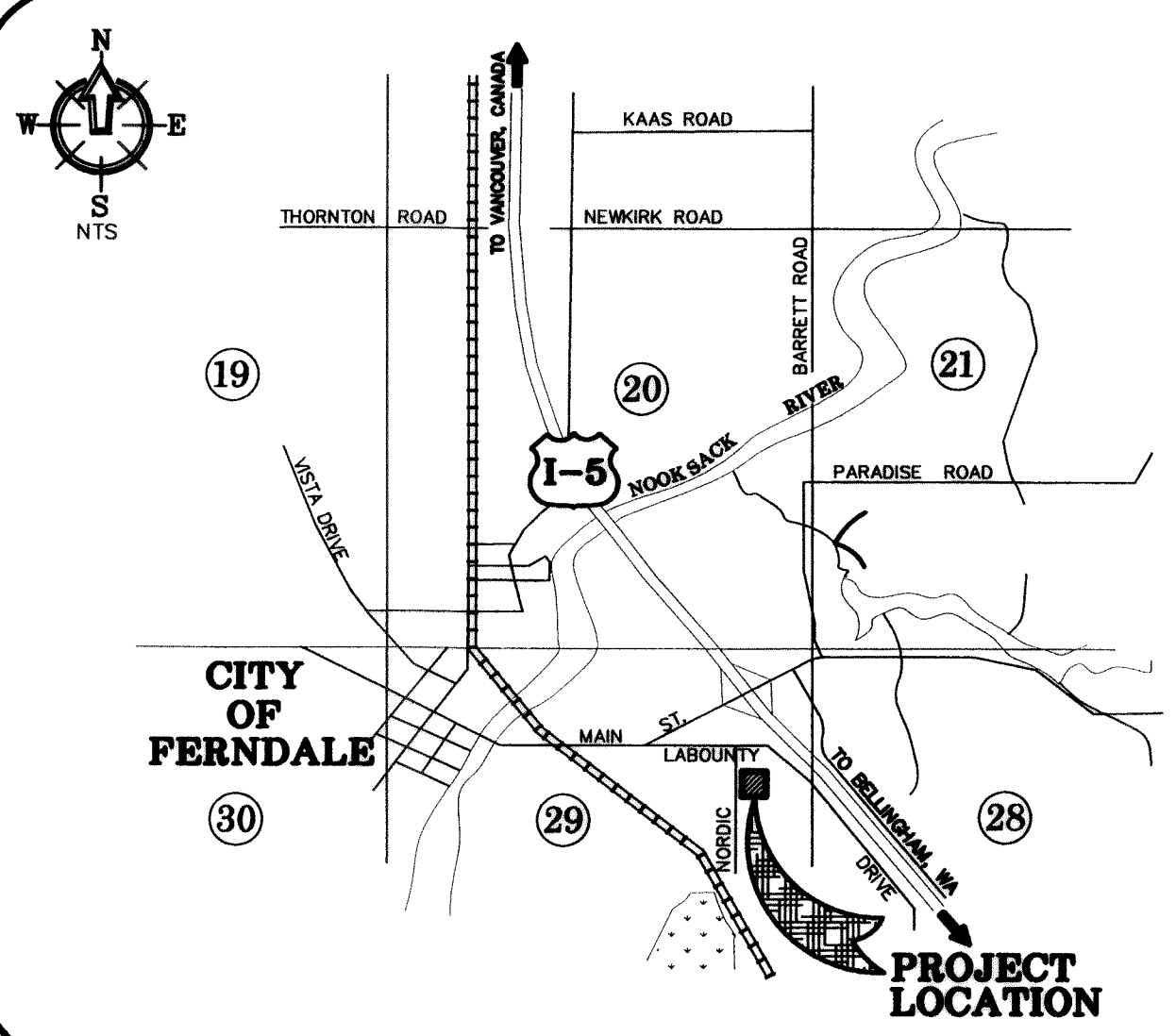
## LEGEND

|  |  |  |                                     |
|--|--|--|-------------------------------------|
|  | = FND BRASS MON                            |  | = EXIST OVERHEAD POWER              |
|  | = FND ALUMINUM CAP MON                     |  | = EXIST UNDERGROUND POWER           |
|  | = FND CONC MON                             |  | = EXIST OVERHEAD PHONE              |
|  | = FND SQUARE CONC MON                      |  | = EXIST UNDERGROUND PHONE           |
|  | = FND REBAR AND CAP                        |  | = EXIST OVERHEAD UTILITES (UNKNOWN) |
|  | = SET 1/2" REBAR W/PLAS. CAP PLS????       |  | = EXIST UNDERGROUND TV CABLE        |
|  | = FND IRON PIPE                            |  | = EXIST GAS MAIN                    |
|  | = FND HUB AND TACK                         |  | = EXIST WATER LINE                  |
|  | = FND PK NAIL                              |  | = EXIST SANITARY SEWER LINE         |
|  | = FND PK NAIL AND TAG/SHINER               |  | = EXIST STORM DRAIN LINE            |
|  | = FND RR SPIKE                             |  | = PROPOSED STORM DRAIN LINE         |
|  | = RECORD DATA PER DEED                     |  | = PROPOSED ROOF DRAIN               |
|  | = RECORD DATA PER PLAT                     |  | = PROPOSED SAN. SEWER LINE          |
|  | = EXIST SD CATCH BASIN (TYPE 1)            |  | = PROPOSED WATER LINE               |
|  | = EXIST SD CATCH BASIN (TYPE 2)            |  | = PROPOSED GAS LINE                 |
|  | = EXISTING SD MANHOLE (TYPE 1) (SOLID TOP) |  | = PROPOSED POWER LINE               |
|  | = EXISTING SD MANHOLE (TYPE 2) (SOLID TOP) |  | = EXST CHAIN LINK FENCE             |
|  | = EXIST SD INLET                           |  | = PROPOSED CHAIN LINK FENCE         |
|  | = EXIST SD AREA DRAIN                      |  | = EXST BARBED WIRE FENCE            |
|  | = EXIST SD CLEANOUT                        |  | = PROPOSED BARBED WIRE FENCE        |
|  | = EXIST SD WER                             |  | = EXST WOOD POST FENCE              |
|  | = EXIST SD SERVICE                         |  | = PROPOSED WOOD POST FENCE          |
|  | = PROPOSED STORM DRAIN SERVICE             |  | = EXIST FENCE TYPE:                 |
|  | = PROPOSED STORM DRAIN CLEANOUT            |  | = EXIST FENCE TYPE:                 |
|  | = PROPOSED STORM DRAIN CATCH BASIN         |  | = EXIST CONTOUR (INDEX)             |
|  | = PROPOSED STORM DRAIN MANHOLE (TYPE 2)    |  | = EXIST CONTOUR (NORMAL)            |
|  | = EXIST SANITARY SEWER MANHOLE             |  |                                     |
|  | = EXIST SANITARY SEWER CLEANOUT            |  |                                     |
|  | = EXIST SANITARY SEWER SERVICE             |  |                                     |
|  | = PROPOSED SANITARY SEWER SERVICE          |  |                                     |
|  | = PROPOSED SEWER CLEANOUT                  |  |                                     |
|  | = PROPOSED SEWER MANHOLE                   |  |                                     |
|  | = EXISTING WATER SERVICE CONNECT           |  |                                     |
|  | = EXISTING FIRE STAND PIPE                 |  |                                     |
|  | = EXISTING FIRE HOSE CONNECTION            |  |                                     |
|  | = EXISTING WATER BLOW-OFF VALVE            |  |                                     |
|  | = EXISTING WATER METER BOX                 |  |                                     |
|  | = EXISTING WATER VALVE                     |  |                                     |
|  | = EXISTING FIRE HYDRANT                    |  |                                     |
|  | = EXIST WATER VALVE BOXES                  |  |                                     |
|  | = PROPOSED WATER SERVICE                   |  |                                     |
|  | = PROPOSED WATER VALVE                     |  |                                     |
|  | = PROPOSED FIRE HYDRANT                    |  |                                     |
|  | = EXIST POWER/AND OR UTILITY POLE          |  |                                     |
|  | = EXIST GUY POLE                           |  |                                     |
|  | = EXIST GUY WIRE                           |  |                                     |
|  | = EXIST POWER METER/STRUCTURE              |  |                                     |
|  | = EXIST POWER VAULT                        |  |                                     |
|  | = EXIST POWER VBOX/HANDHOLD                |  |                                     |
|  | = EXIST LIGHT POLE                         |  |                                     |
|  | = EXIST UTILITY POLE                       |  |                                     |
|  | = EXIST TV BOX                             |  |                                     |
|  | = EXIST TELEPHONE PEDESTAL                 |  |                                     |
|  | = EXIST TELEPHONE MANHOLE                  |  |                                     |
|  | = EXIST MAIL BOX                           |  |                                     |
|  | = EXIST SIGN                               |  |                                     |
|  | = PROPOSED SIGN                            |  |                                     |
|  | = EXIST LANDSCAPING                        |  |                                     |
|  | = EXIST GAS METER                          |  |                                     |

## SHEET INDEX

- C1) COVER SHEET
- C2) EXISTING CONDITIONS
- C3) TEMPORARY EROSION & SEDIMENTATION CONTROL PLAN
- C4) PAVING & GRADING PLAN
- C5) STORMWATER PLAN
- C6) UTILITY PLAN
- C7) DIMENSIONING PLAN
- C8) DETAILS
- C9) DETAILS
- C10) GENERAL NOTES & DETAILS

## 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                 | RW/ 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           | WLK     | = 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              |

## PROJECT INFORMATION

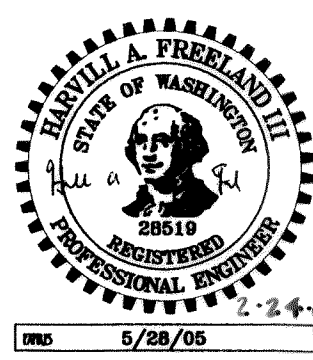
|  |   |
|--|---|
| <b>OWNER</b><br>FERNDALE FAMILY MEDICAL CENTER<br>DR. JOHN HRUBY<br>5616 3RD AVENUE<br>FERNDALE, WA 98248<br>(360) 384-1511  | <b>CONTRACTOR</b><br>ROOSENDAAL-HONCOOP CONSTRUCTION<br>GARY HONCOOP<br>5977 GUIDE MERIDIAN<br>BELLINGHAM, WA 98226<br>(360) 398-2800<br>360 398-2830 {FAX}   |
| <b>CIVIL ENGINEER</b><br>FREELAND & ASSOCIATES, INC.<br>TONY FREELAND, PE<br>J. P. SLACLE, EIT<br>1408 NORTH GARDEN STREET<br>BELLINGHAM, WA 98225<br>(360) 650-1408<br>(360) 650-1401 {FAX} | <b>ARCHITECT</b><br>CARLETTI ARCHITECTS<br>PETER CARLETTI<br>1404 E. COLLEGE WAY, SUITE 103<br>MT. VERNON, WA 98273<br>(360) 424-0394<br>(360) 424-5726 {FAX} |
| <b>SURVEYOR</b><br>FREELAND & ASSOCIATES, INC.<br>1408 NORTH GARDEN STREET<br>BELLINGHAM, WA 98225<br>(360) 650-1408<br>(360) 650-1401 {FAX}   |   |

Asbuilt Drawing Certification

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN FERNDALE FAMILY MEDICAL CENTER 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 FERNDALE DEPARTMENT OF PUBLIC WORKS.

By: Jim A. R. Date: 2-12-06

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

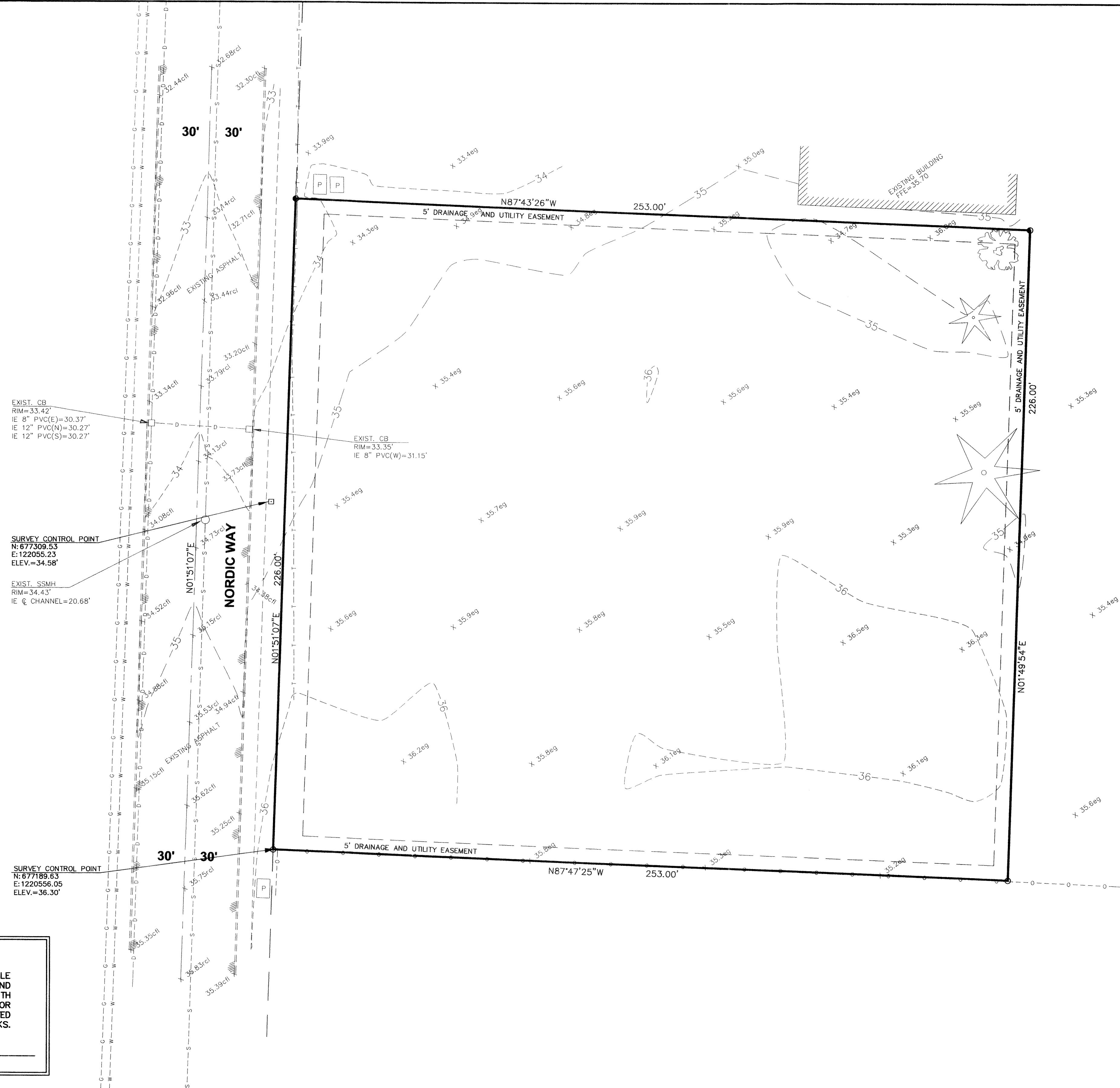
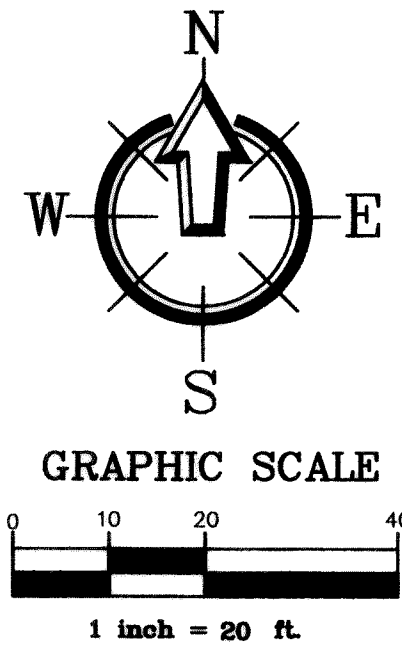


1408 North Garden Street  
Bellingham, WA 98225  
t: 360.650.1408  
f: 360.650.1401

DATE: 2-09-06  
JOB #: 04147  
SHEET: **C1**

00317.001 5:9:00 42

ASBUILT DRAWINGS



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I HEREBY CERTIFY THAT THE IMPROVEMENTS IN FERNDALF FAMILY MEDICAL CENTER 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 FERNDALF DEPARTMENT OF PUBLIC WORKS.

By: Alan A. H Date: 2-12-06

**APPROVED**

MAY 02 2006

BY: [Signature]

CITY OF FERNDALF

**FERNDALF A. FREELAND III**  
STATE OF WASHINGTON  
REGISTERED PROFESSIONAL ENGINEER  
20010  
5/29/05

|     |          |                           |                     |  |   |  |   |   |                            |                     |
|-----|----------|---------------------------|---------------------|--|---|--|---|---|----------------------------|---------------------|
|     |          |                           | DESIGNED BY:<br>JPS |  |  | 1408 North Garden Street<br>Bellingham, WA 98225<br>t: 360.650.1408<br>f: 360.650.1401 | CLIENT:<br><b>FERNDALE FAMILY MEDICAL CENTER</b><br>5616 3RD AVENUE<br>FERNDALE, WA 98248<br>PROJECT LOCATION:<br>5580 NORDIC WAY<br>FERNDALE, WA 98248 | SHEET CONTENTS:<br><br><b>EXISTING CONDITIONS</b> | DWG #:<br>04147AB1         | DATE:<br>2-09-06    |
|     |          |                           | DRAWN BY:<br>JPS    |  |   |  |   |   | JOB #:<br>04147            |                     |
|     |          |                           | CHECKED BY:<br>HAF  |  |   |  |   |   | SCALE:<br>H: 1"=20' V: n/a | SHEET:<br><b>C2</b> |
|     |          |                           | By                  |  |   |  |   |   |                            |                     |
| 1   | 01-26-06 | ASBUILT DRAWING SUBMITTAL | HAF                 |  |   |  |   |   |                            |                     |
| No. | Date     | REVISION                  |                     |  |   |  |   |   |                            |                     |

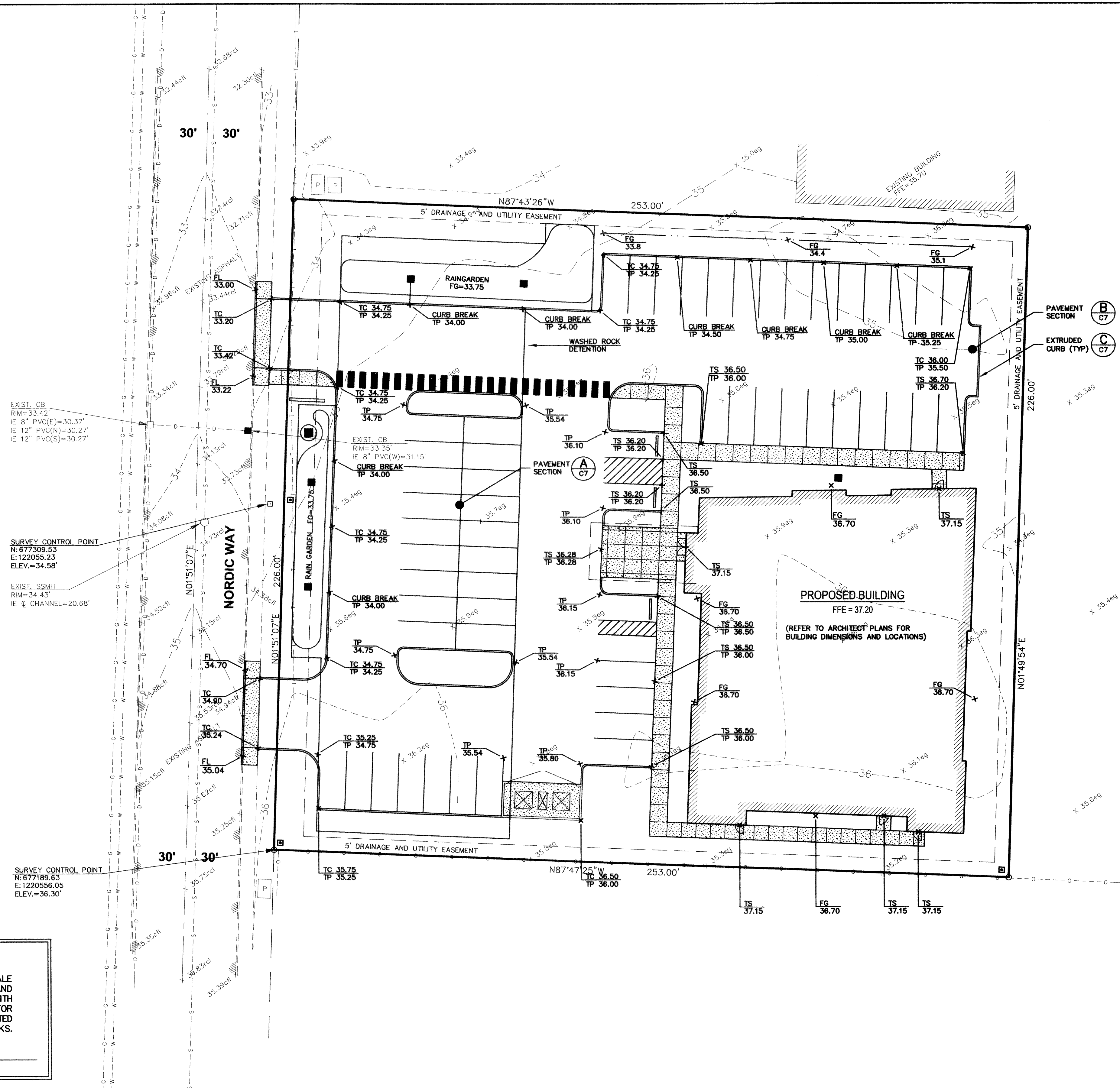
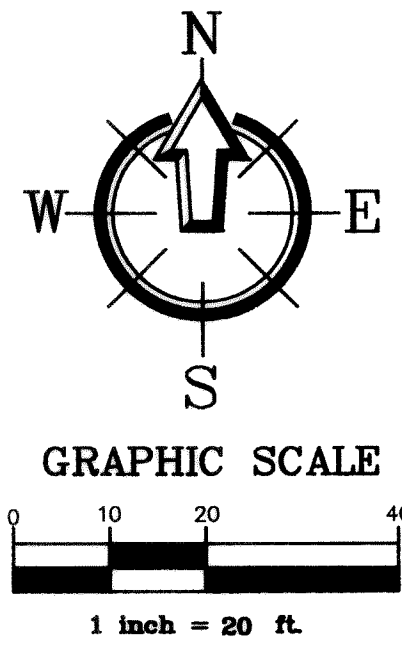
ASBUILT DRAWINGS

00817.002 5.9.06 H









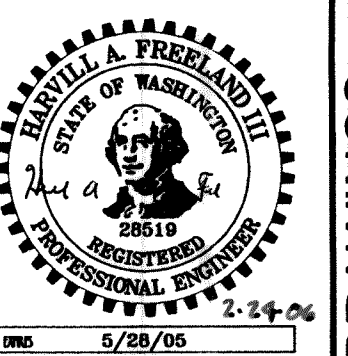
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By: Paul A. Freeland

Date: 2-12-06

APPROVED  
MAY 02, 2006  
BY: [Signature]  
CITY OF FERDALE



5/28/05

DESIGNED BY: JPS  
DRAWN BY: JPS  
CHECKED BY: HAF  
**FREELAND & ASSOCIATES**

1408 North Garden Street  
Bellingham, WA 98225

T: 360.650.1408  
F: 360.650.1401

CLIENT: **FERDALE FAMILY MEDICAL CENTER**  
5616 3RD AVENUE  
FERDALE, WA 98248  
PROJECT LOCATION: 5580 NORDIC WAY  
FERDALE, WA 98248

SHEET CONTENTS:

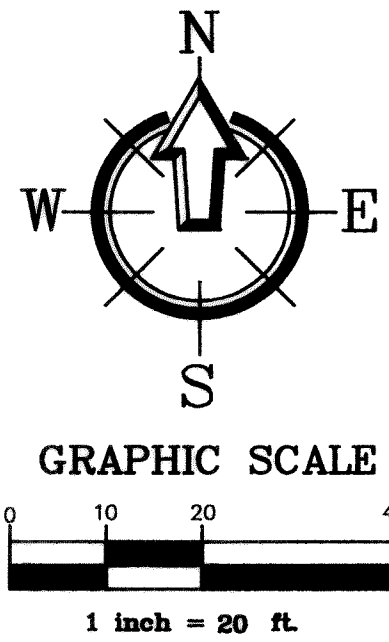
**PAVING & GRADING PLAN**

DWG #: 04147AB1  
JOB #: 04147  
SCALE: H: 1"=20' V: n/a

DATE: 2-09-06  
SHEET: **C4**

ASBUILT DRAWINGS





UNDERGROUND DETENTION BOUNDARY  
2.5' DEPTH OF WASHED ROCK  
BOTTOM ELEV. 30.75

CB #6  
CONTROL MH

CB #7  
RIM=33.35'  
IE 12" PVC(W)=30.50  
IE 8" PVC(E)=30.50  
IE 6" PVC(S)=30.50  
EXIST. CB  
RIM=33.42'  
IE 8" PVC(W)=30.37'  
IE 12" PVC(N)=30.27'  
IE 12" PVC(S)=30.27'  
IE 12" PVC (E)=30.27'  
PAVEMENT REPAIR  
C/D DRAWING R-11  
47 LF 12" PVC @ 0.5%  
21 LF 8" PVC @ 0.5%  
27 LF 6" PVC @ 0.5%

SURVEY CONTROL POINT  
N: 677309.53  
E: 122055.23  
ELEV.=34.58'

EXIST. SSMH  
RIM=34.43'  
IE @ CHANNEL=20.68'

118 LF 6" PVC @ 0.5%

NOTE:  
NO DRAINAGE COURSES WILL BE ALTERED  
BY SITE WORK CONSTRUCTION

SURVEY CONTROL POINT  
N: 677189.63  
E: 122055.05  
ELEV.=36.30'

#### Asbuilt Drawing Certification

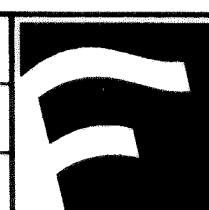
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By: John A. Fry Date: 2-12-06

DESIGNED BY:  
JPS

DRAWN BY:  
JPS

CHECKED BY:  
HAF



1408 North Garden Street  
Bellingham, WA 98225

T: 360.650.1408  
F: 360.650.1401

CLIENT: FERDALE FAMILY MEDICAL CENTER

5616 3RD AVENUE  
FERDALE, WA 98248

PROJECT LOCATION:

5580 NORDIC WAY  
FERDALE, WA 98248

SHEET CONTENTS:

STORMWATER PLAN

DWG #:

04147AB1

JOB #:

04147

SCALE:

H: 1"=20'

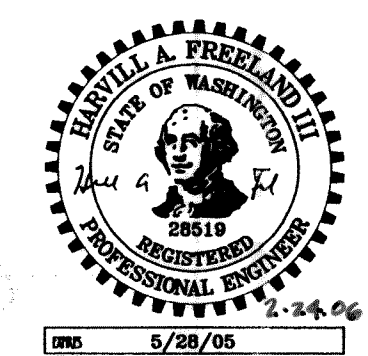
V: n/a

DATE:

2-09-06

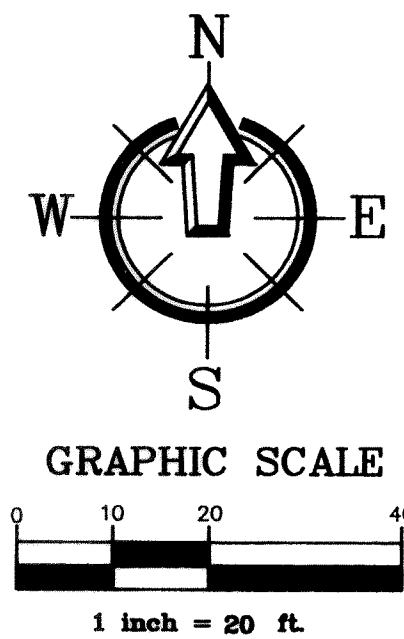
SHEET:

C5

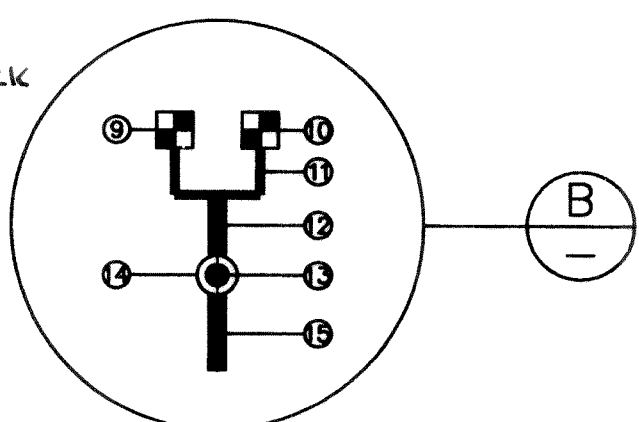
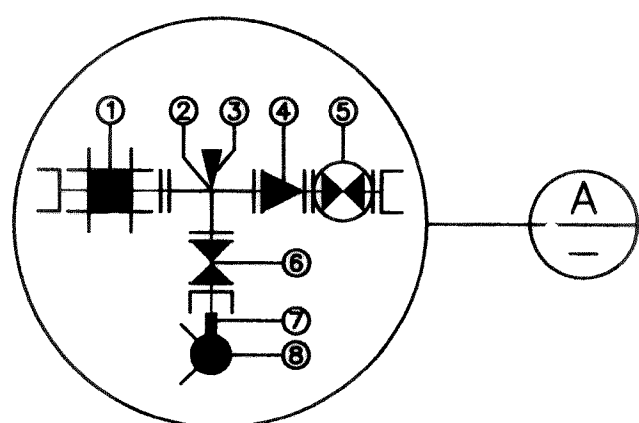


APPROVED  
MAY 02, 2006  
BY: John A. Fry  
CITY OF FERDALE

ASBUILT DRAWINGS



- 1) 6" COUPLING ADAPTOR (MJD&FL)
- 2) 6"x6" TEE (FL&FL)
- 3) THRUST BLOCK
- 4) 6"x4" REDUCER (FL&FL)
- 5) 4" P.I.V. (FL&MJ)
- 6) 6" GATE VALVE (FL&MJ)
- 7) 6" D.I. SPOOL
- 8) FIRE HYDRANT ASSEMBLY
- 9) 1" DOMESTIC METER (COF DWG W-5)
- 10) 1" IRRIGATION METER (DOUBLE CHECK PRIVATE)
- 11) 1" WATER LINE
- 12) 2" COPPER WATER LINE
- 13) 2" CURB STOP
- 14) VALVE BOX
- 15) 2" COPPER WATER LINE



CONNECT TO EXIST 10" WATER  
1-10" x 6" TAPPING TEE &  
VALVE ASSEMBLY  
FIRE HYDRANT ASSEMBLY  
SEE DETAIL A

WATER SERVICE  
SEE DETAIL B

SURVEY CONTROL POINT  
N: 677309.53  
E: 122055.23  
ELEV. = 34.58'

EXIST. SSMH  
RIM = 34.43'  
IE @ CHANNEL = 20.68'

PAVEMENT REPAIR  
COF DRAWING R-11  
(TYPICAL)

CONNECT TO EXISTING SEWER  
MANHOLE, OUTSIDE DROP  
STRUCTURE PER C.O.F.  
STD. SS-11

SURVEY CONTROL POINT  
N: 677189.63  
E: 122056.05  
ELEV. = 36.30'

6" SIDE SEWER  
2" MINIMUM  
COF DWG SS-8

6" CLEANOUT  
(TYP)

PROPOSED BUILDING  
FFE = 37.20  
(REFER TO ARCHITECT'S PLANS FOR  
BUILDING DIMENSIONS AND LOCATIONS)

#### Asbuilt Drawing Certification

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN FERNDAL  
FAMILY MEDICAL CENTER 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 DEPARTMENT OF PUBLIC WORKS.

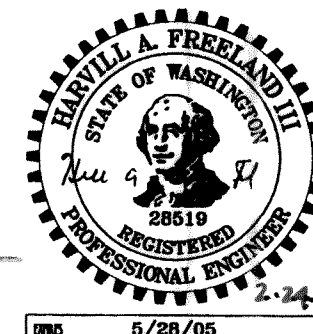
By: Jim A. To Date: 2-12-06

APPROVED

MAY 02 2006

BY: RC

CITY OF FERNDAL



5/28/05

| No. | Date     | REVISION                  |
|-----|----------|---------------------------|
| 1   | 01-26-06 | ASBUILT DRAWING SUBMITTAL |

|              |     |
|--------------|-----|
| DESIGNED BY: | JPS |
| DRAWN BY:    | JPS |
| CHECKED BY:  | HAF |



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

**FREELAND**  
& ASSOCIATES

CLIENT: **FERNDAL FAMILY MEDICAL CENTER**  
5616 3RD AVENUE  
FERNDAL, WA 98248  
PROJECT LOCATION: 5580 NORDIC WAY  
FERNDAL, WA 98248

SHEET CONTENTS:

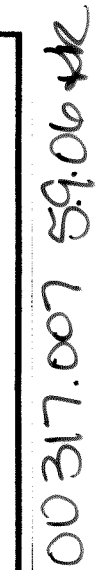
**UTILITY PLAN**


|        |           |        |           |
|--------|-----------|--------|-----------|
| DWG #: | 04147AB1  | DATE:  |           |
| JOB #: | 04147     | SHEET: | 2-08-06   |
| SCALE: | H: 1"=20' | V: n/a | <b>C6</b> |

ASBUILT DRAWINGS

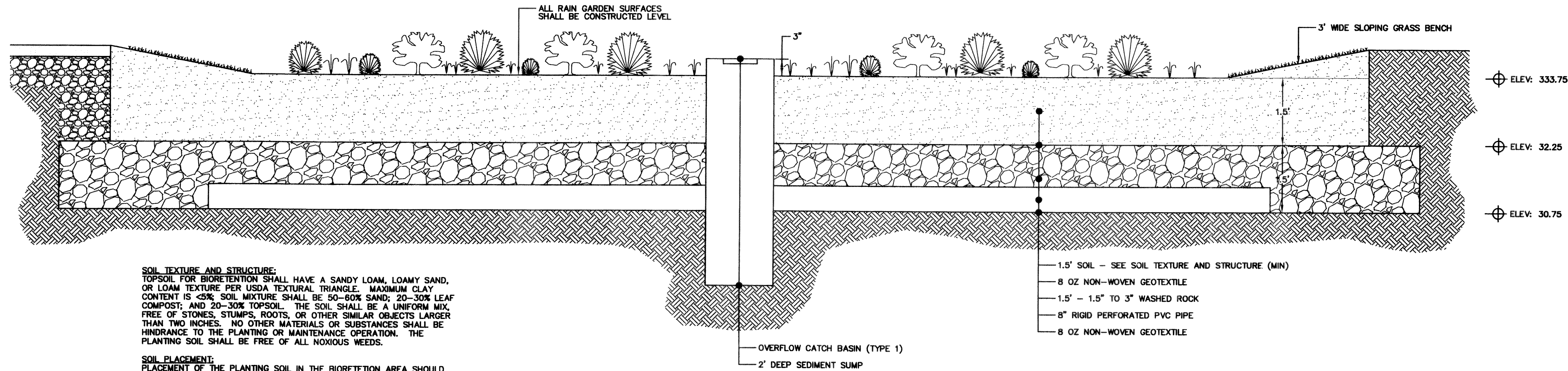
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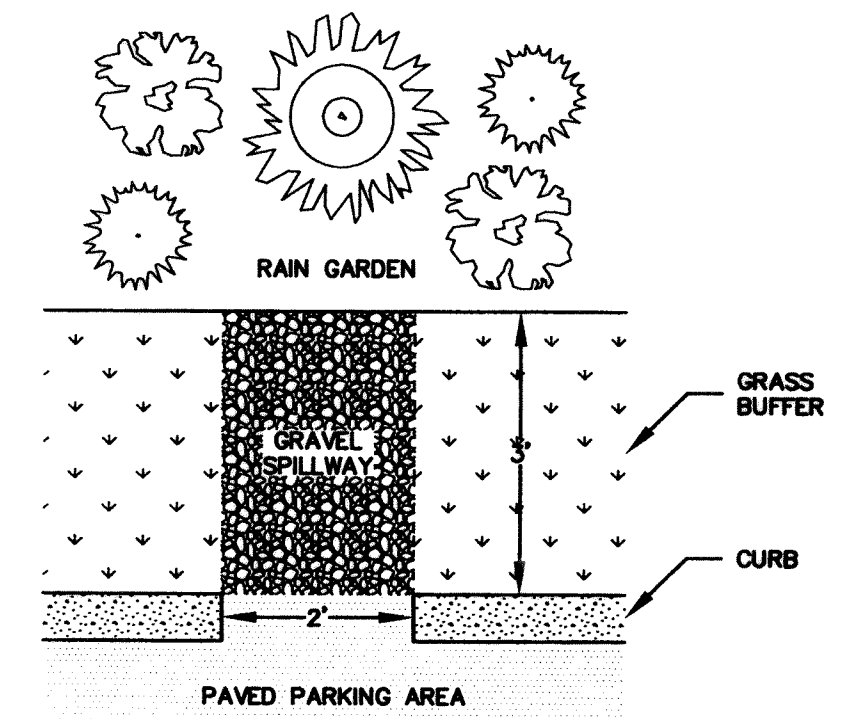


|     |          |                           |     |                     |   |  |  |  |                    |                  |
|-----|----------|---------------------------|-----|---------------------|---|--|--|--|--------------------|------------------|
|     |          |                           |     | DESIGNED BY:<br>JPS |  | 1408 North Garden Street<br>Bellingham, WA 98225<br>t: 360.650.1408<br>f: 360.650.1401 | CLIENT:<br><br>FERDALE FAMILY MEDICAL CENTER<br>5616 3RD AVENUE<br>FERDALE, WA 98248<br>5580 NORDIC WAY<br>FERDALE, WA 98248 | SHEET CONTENTS:<br><br>DIMENSIONING PLAN | DWG #:<br>04147AB1 | DATE:<br>2-09-06 |
|     |          |                           |     | DRAWN BY:<br>JPS    |   | PROJECT LOCATION:<br>5580 NORDIC WAY<br>FERDALE, WA 98248                              | JOB #:<br>04147  |  | SHEET:<br>C7       |                  |
| 1   | 01-26-06 | ASBUILT DRAWING SUBMITTAL | HAF | CHECKED BY:<br>HAF  |   |  |  |  |                    |                  |
| No. | Date     | REVISION                  | By  |                     |   |  |  |  |                    |                  |





**A RAIN GARDEN**  
NTS

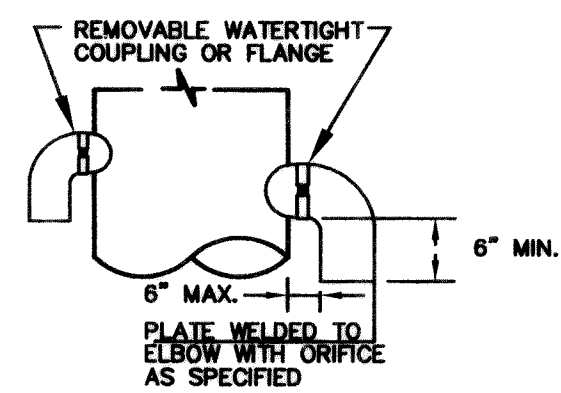


**B RAINGARDEN CURB CUT**  
NTS

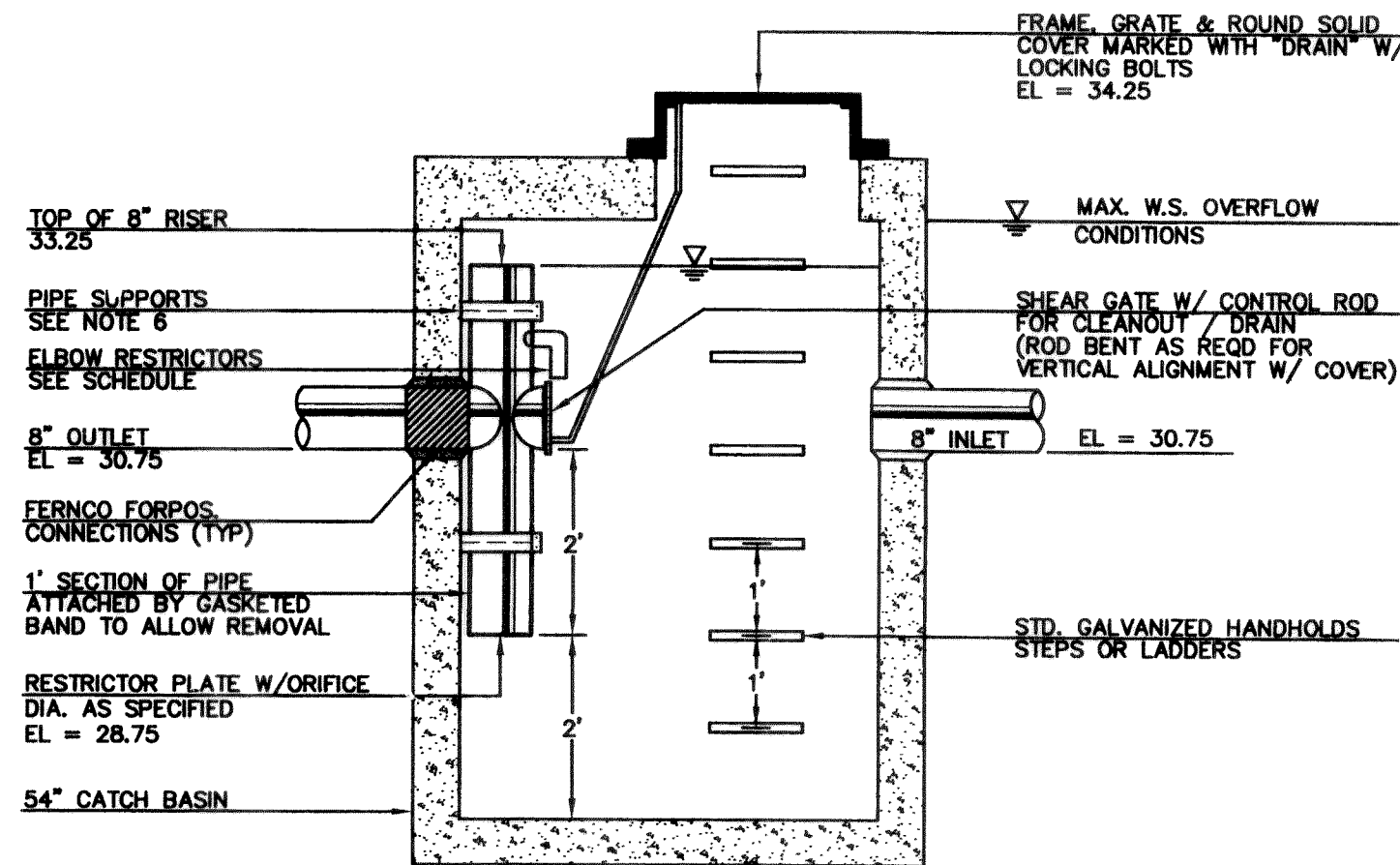
**NOTES:**

- USE A MINIMUM OF A 54" DIAMETER TYPE 2 CATCH BASIN.
- OUTLET CAPACITY: 100-YEAR DEVELOPED PEAK FLOW.
- METAL PARTS: CORROSION RESISTANT, NON-GALVANIZED PARTS PREFERRED. GALVANIZED PIPE PARTS TO HAVE ASPHALT TREATMENT 1.
- FRAME & LADDER OR STEPS OFFSET SO:
  - CLEANOUT GATE IS VISIBLE FROM TOP.
  - CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
  - FRAME IS CLEAR OF CURB.
- IF METAL OUTLET PIPE CONNECTS TO CEMENT CONCRETE PIPE, OUTLET PIPE TO HAVE SMOOTH O.D. EQUAL TO CONCRETE PIPE I.D. LESS 1/4".
- PROVIDE AT LEAST ONE 3" X .090 INCHES SUPPORT BRACKET ANCHORED TO CB WALL (MAX. 3'-0" VERTICAL SPACING).
- LOCATE ELBOW RESTRICTOR(S) AS NECESSARY TO PROVIDE MIN. CLEARANCE AS SHOWN.
- LOCATE ADDITIONAL LADDER RUNGS IN STRUCTURES USED AS ACCESS TO TANKS OR VAULTS TO ALLOW ACCESS WHEN CATCH BASIN IS FILLED WITH WATER.

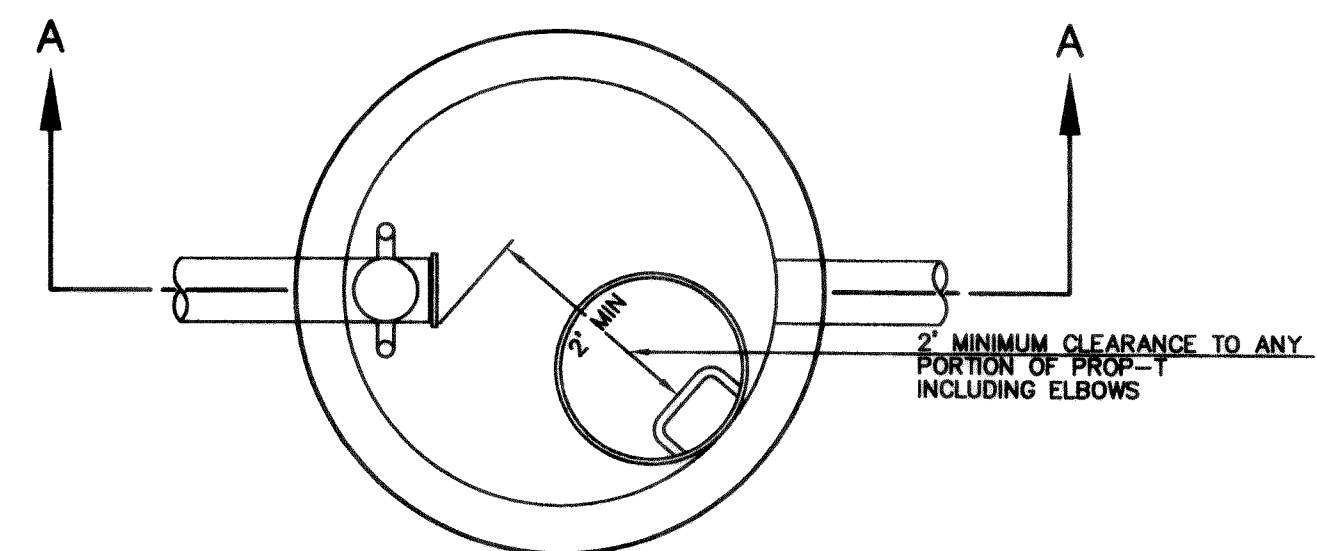
| 8" RISER ORIFICE SCHEDULE |                  |                     |
|---------------------------|------------------|---------------------|
| ELEVATION                 | ORIFICE DIAMETER | ELBOW PIPE DIAMETER |
| 28.75                     | 0.74"            | N/A                 |
| 31.91                     | 0.75"            | 2"                  |
| 32.58                     | 1.24"            | 2"                  |



**ELBOW-RESTRICTOR**

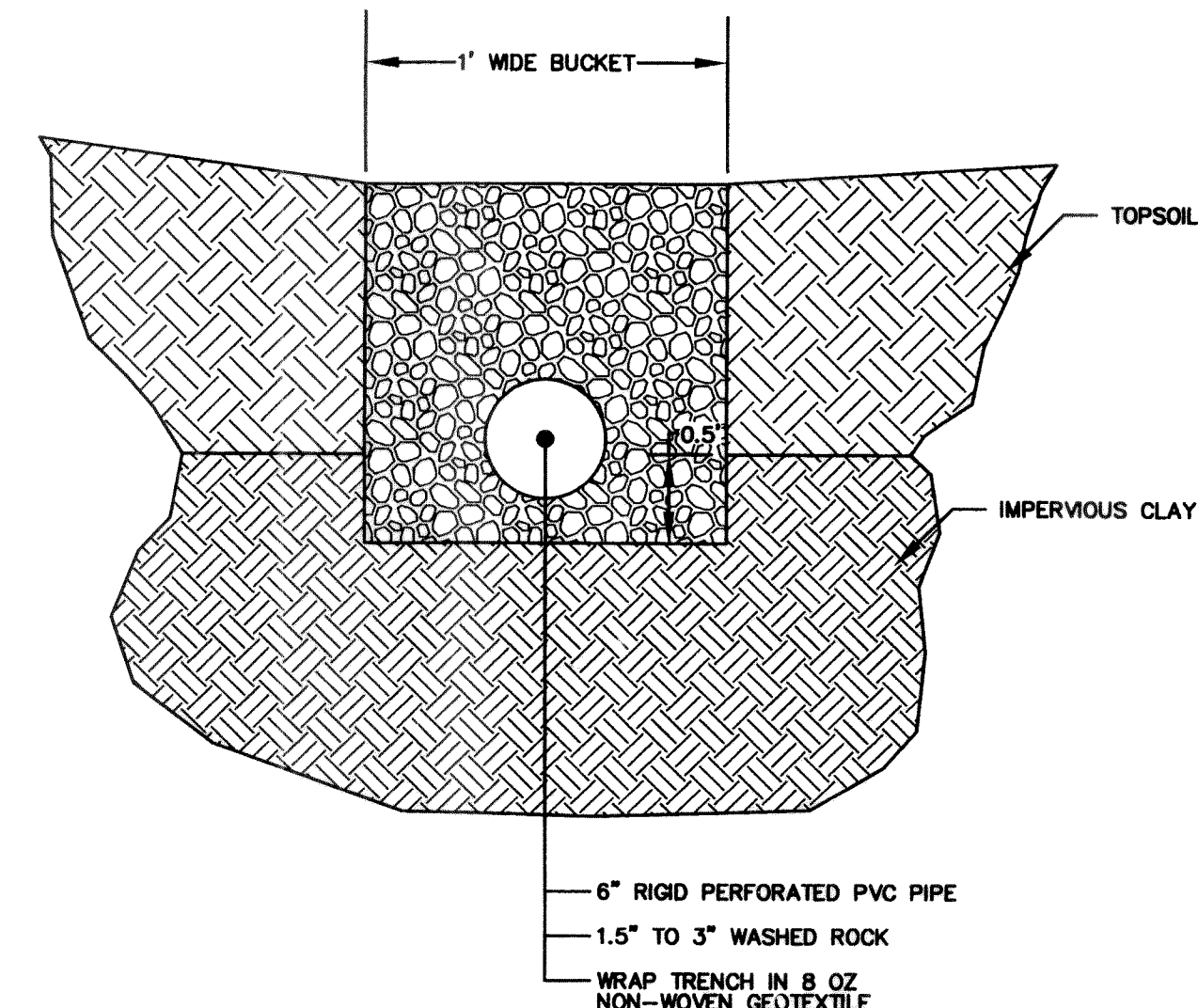


**SECTION A-A**

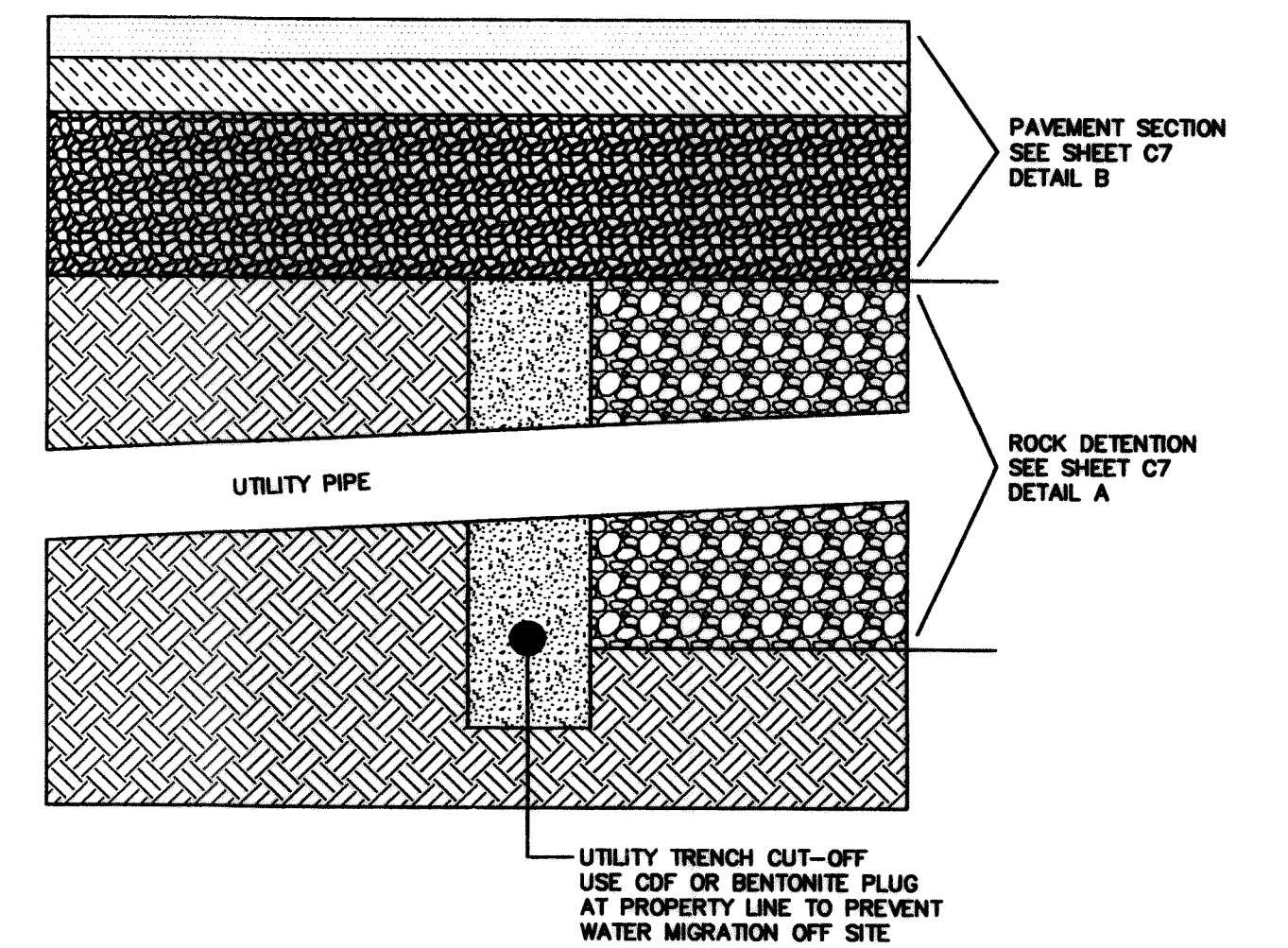


**PLAN VIEW**

**C CONTROL MANHOLE**  
1"=20'



**D CUT OFF TRENCH**  
NTS

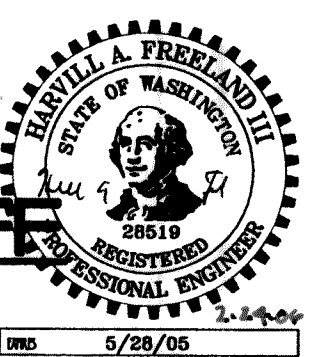


**E UTILITY TRENCH CUT-OFF**  
NTS

APPROVED

MAY 02 2006

BY *RC*  
CITY OF FERNDAL



5/28/06

**Asbuilt Drawing Certification**

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN FERNDAL

FAMILY MEDICAL CENTER 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 DEPARTMENT OF PUBLIC WORKS.

By: *Julia A. Ry* Date: *2-12-06*

|   |          |                           |     |    |   |  |  |  |  |  |
|---|----------|---------------------------|-----|----|---|--|--|--|--|--|
| 1 | 01-26-06 | ASBUILT DRAWING SUBMITTAL | HAF | By | DESIGNED BY:<br>JPS<br>DRAWN BY:<br>JPS<br>CHECKED BY:<br>HAF | 1408 North Garden Street<br>Bellingham, WA 98225<br>t: 360.650.1408<br>f: 360.650.1401 | CLIENT:<br><b>FERNDAL FAMILY MEDICAL CENTER</b><br>5616 3RD AVENUE<br>FERNDAL, WA 98248<br>PROJECT LOCATION:<br>5580 NORDIC WAY<br>FERNDAL, WA 98248 | SHEET CONTENTS:<br><b>STORMWATER DETAILS</b> | DWG #:<br><b>04147AB1</b><br>JOB #:<br><b>04147</b><br>SCALE:<br><b>H: 1"=20' V: n/a</b> | DATE:<br><b>2-09-06</b><br>SHEET:<br><b>C8</b> |
|   |          |                           |     |    |   |  |  |  |  |  |

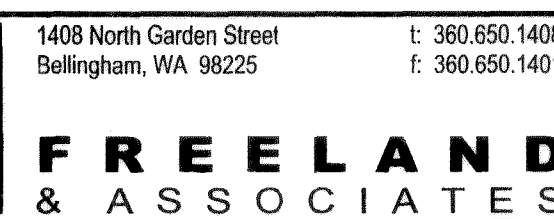




DESIGNED BY:  
JPS

DRAWN BY:  
JPS

CHECKED BY:  
HAF



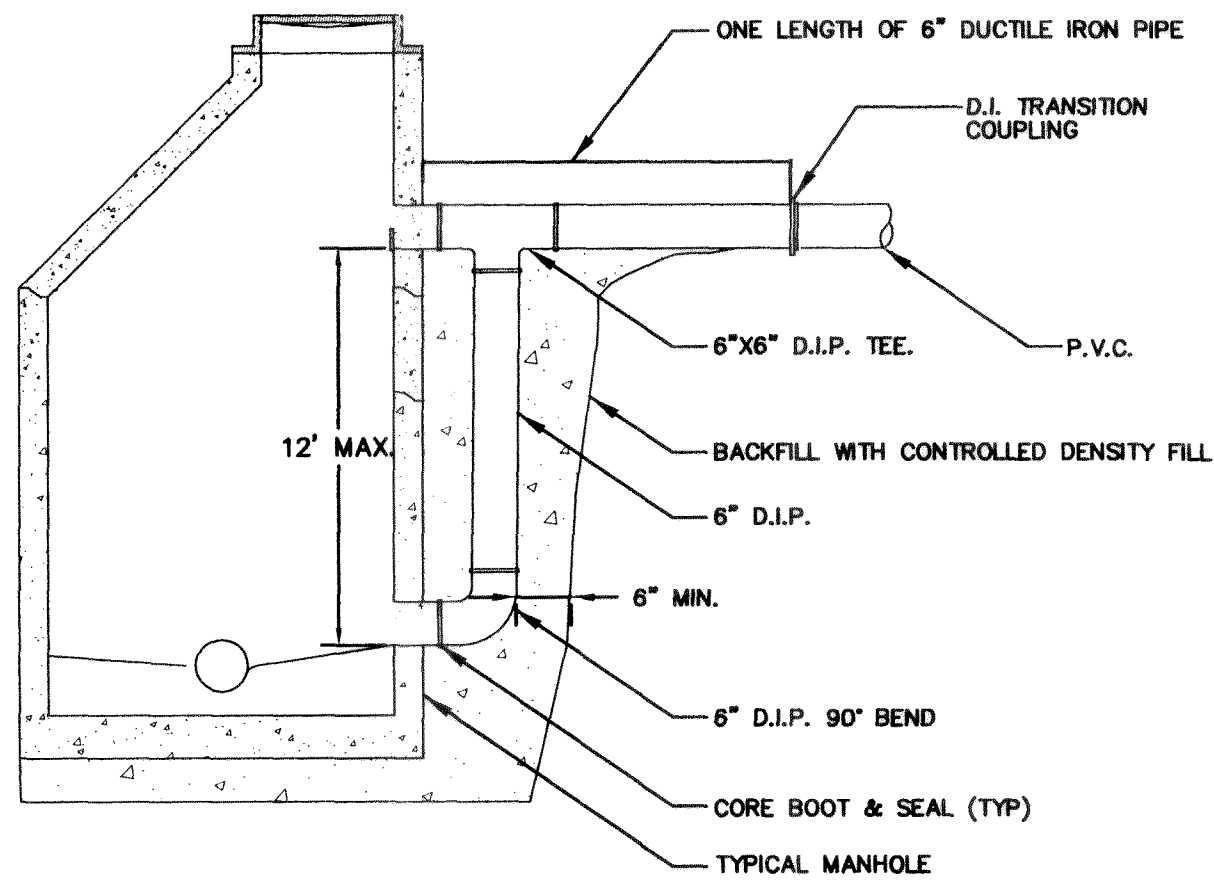
**FERNDAL FAMILY MEDICAL CENTER**  
5616 3RD AVENUE  
FERNDAL, WA 98248

5580 NORDIC WAY  
FERNDAL, WA 98248

## DETAILS

|        |         |
|--------|---------|
| DATE:  | 2-09-06 |
| SHEET: | C9      |





**A OUTSIDE DROP STRUCTURE**  
NTS

**Asbuilt Drawing Certification**

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN FERDALE FAMILY MEDICAL CENTER 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 FERDALE DEPARTMENT OF PUBLIC WORKS.

By: He a fi Date: 2-12-06

**GENERAL REQUIREMENTS**

1. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERDALE DEVELOPMENT STANDARDS AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERDALE. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUBSURFACE CONDITIONS AND SOILS TYPES.
3. THE SURVEYOR SHALL LAY OUT AND SET ANY CONSTRUCTION STAKES AND MARKS NEEDED TO ESTABLISH THE LINES, GRADES, SLOPES OR CROSS-SECTIONS AS SHOWN ON THE PLANS OR AS STAKED BY THE ENGINEER.
4. THROUGHOUT THE WORK, THE CONTRACTOR SHALL COMPLY WITH ALL PERMITS.
5. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK.
6. WHEN THE CONTRACTOR CONSIDERS THE WORK PHYSICALLY COMPLETE AND READY FOR FINAL INSPECTION, THE CONTRACTOR SHALL REQUEST THAT CITY INSPECTOR TO SCHEDULE A FINAL INSPECTION. THE INSPECTOR WILL MAKE A FINAL INSPECTION AND NOTIFY THE CONTRACTOR IN WRITING OF ALL PARTICULARS IN WHICH THE FINAL INSPECTION REVEALS THE WORK INCOMPLETE OR UNACCEPTABLE. THE CONTRACTOR SHALL IMMEDIATELY TAKE SUCH CORRECTIVE MEASURES AS ARE NECESSARY TO REMEDY THE LISTED DEFICIENCIES.
7. BEFORE ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY A PRE-CONSTRUCTION MEETING MUST BE HELD BETWEEN THE CONTRACTOR, OWNER, CITY ENGINEER AND PROJECT ENGINEER. (MINIMUM 3 DAYS PRIOR TO STARTING WORK)
8. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23-PUBLIC CONVENIENCE AND SAFETY, SHALL APPLY.
10. PROOF OF LIABILITY INSURANCE SHALL BE SUBMITTED TO THE CITY PRIOR TO THE PRE-CONSTRUCTION MEETING.
11. NO WORK SHALL OCCUR BETWEEN 7:00 PM & 7:00 AM.
12. 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. ALL REPAIRS SHALL BE ACCORDING TO CITY OF FERDALE DRAWING R-11.
13. ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF FERDALE ENGINEERING DIVISION, AND 24 HOURS NOTICE MUST BE GIVEN PRIOR TO STARTING WORK OR TO SCHEDULE INSPECTIONS IN ACCORDANCE WITH SECTION 302 OF THE DEVELOPMENT STANDARDS.
14. UPON COMPLETION OF THE PROJECT A CERTIFIED AS-BUILT PRINT SHALL BE PROVIDED TO THE CITY. AS-BUILTS SHALL BE ACCORDING TO CITY OF FERDALE SPECIFICATION WA-8.
15. THE LOCATIONS OF UNDERGROUND FACILITIES SHOWN ON THESE PLANS ARE BASED ON FIELD SURVEYS AND LOCAL UTILITY COMPANY RECORDS. IT SHALL BE THE CONTRACTOR'S FULL RESPONSIBILITY TO CONTACT THE VARIOUS UTILITY COMPANIES TO LOCATE THEIR FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR DAMAGE AND REPAIR TO THESE FACILITIES CAUSED BY HIS WORK FORCE. CALL 1-800-424-5555 FOR UTILITY LOCATE 48 HOURS PRIOR TO WORK. CONTRACT TO HOLD. THE CONTRACTOR SHALL NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL ADJACENT UTILITIES WHICH INCLUDE BUT ARE NOT LIMITED TO: WATER, SEWER, STORM SEWER, POWER, TELEPHONE, CABLE TV, IRRIGATION, AND STREET LIGHTING. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISTURBED BY THE PROJECT UPON COMPLETION OF THE PROJECT.
16. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE PUBLIC RIGHT OF WAY.

**BASES**

1. GRAVEL BASES AND BALLAST MAXIMUM PARTICLE SIZE PASSING THE U.S. NO. 200 SIEVE SHALL NOT EXCEED 5%.
2. BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF ITS MAXIMUM DRY DENSITY.
3. THE CONTRACTOR OR PROPONENT SHALL BE RESPONSIBLE FOR ALL COMPACTION TESTING. ALL TESTING SHALL BE THROUGH ENGINEERING REVIEW ACCOUNT AND PAID FOR BY THE OWNER.

**STORM DRAINAGE**

1. ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT 7-08. THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL AND ANY REQUIRED PIPE BEDDING, TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE.
2. ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
3. ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS."

**STORM DRAINAGE CONT.**

4. ALL DRIVEWAY CULVERTS LOCATED WITHIN THE RIGHT-OF-WAY SHALL BE OF SUFFICIENT LENGTH TO PROVIDE A MINIMUM 3:1 SLOPE FROM THE EDGE OF THE DRIVEWAY TO THE BOTTOM OF THE DITCH. CULVERTS SHALL HAVE BEVELED END SECTIONS PER WSDOT
5. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING THE LOCATIONS OF ALL STUB-OUT CONVEYANCE LINES WITH RESPECT TO THE UTILITIES (E.G. POWER, GAS, TELEPHONE, TELEVISION).

**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 FERDALE DEVELOPMENT STANDARDS SECTION 5 AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERDALE.
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 7-17.3G (2)E OF THE STANDARD SPECIFICATIONS.
3. TRENCH EXCAVATION SHALL BE ACCORDING TO SECTION 7-17.3(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 7-17.3(2)B OF THE STANDARD SPECIFICATIONS.
6. ALL SIDE SEWERS SHALL BE CONSTRUCTED ACCORDING TO THE CITY OF FERDALE STANDARD PLAN SS-6 THROUGH SS-8. CONNECT SIDE SEWERS PER DWG SS-12.
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 FERDALE.
9. ALL MANHOLES WILL BE ACCORDING TO THE CITY OF FERDALE STANDARD PLAN NO. SS-2 THROUGH SS-4.
10. ALL CLEANOUTS SHALL BE ACCORDING TO CITY OF FERDALE STANDARD PLAN NO. SS-5.
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 FERDALE 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 FERDALE.

**PAVEMENTS**

1. WHERE SHOWN ON THE PLANS, PAVEMENT MARKINGS SHALL BE OBLITERATED UNTIL BLEMMISHES CAUSED BY THE PAVEMENT MARKING REMOVAL CONFORM TO THE COLORATION OF THE ADJACENT PAVEMENT.
2. SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
3. A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
4. ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
5. ASPHALT CONCRETE PAVEMENT SHALL NOT BE PLACED NOR COMPACTED DURING HOURS OF DARKNESS.
6. SUBGRADE SHALL BE CERTIFIED IN WRITING BY THE ENGINEER PRIOR TO PAVING.

**WATER MAINS**

1. TEST PRESSURE FOR WATERMAIN ACCEPTANCE SHALL BE 225 p.s.i. AT THE HIGHEST POINT ON THE WATER LINE AND SHALL BE DONE ACCORDING TO CITY OF FERDALE REQUIREMENTS. ALL PURIFICATION ACCEPTANCE TESTING SHALL BE ACCORDING TO CITY OF FERDALE REQUIREMENTS. THE PIPE WILL NOT PASS UNLESS A ZERO BACTERIA COUNT IS OBTAINED FOR TWO CONSECUTIVE TESTS 24 HOURS APART.
2. ALL BACKFILL SHALL BE IMPORTED GRAVEL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
3. ALL PIPE SHALL HAVE A MINIMUM COVER OF 3.5 FEET.

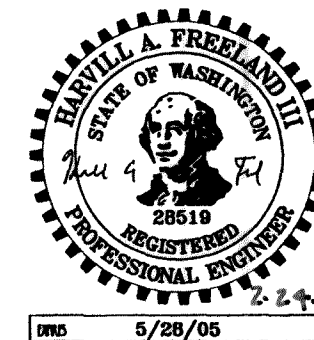
**EARTHWORK**

1. THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
2. THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER. IN ACCORDANCE WITH THE PROJECT GEOTECHNICAL ENGINEERING STUDY.
3. MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.
4. UNSUITABLE MATERIAL NOT FIT FOR A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.

APPROVED

MAY 02 2006

BY [Signature]  
CITY OF FERDALE



CLIENT:

**FERDALE FAMILY MEDICAL CENTER**  
5616 3RD AVENUE  
FERDALE, WA 98248

PROJECT LOCATION:

NORDIC WAY  
FERDALE, WA 98248

SHEET CONTENTS:

**GENERAL NOTES &  
DETAILS**

DWG #:

04147AB1

DATE:

2-09-06

JOB #:

04147

SHEET:

C10

H: n/a

V: n/a

1

01-26-06

ASBUILT DRAWING SUBMITTAL

No.

Date

REVISION

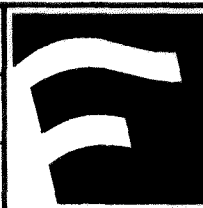
HAF

By

DESIGNED BY:  
JPS

DRAWN BY:  
JPS

CHECKED BY:  
HAF



**FREELAND  
& ASSOCIATES**

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Bellingham, WA 98225

t: 360.650.1408  
f: 360.650.1401

ASBUILT DRAWINGS