

VOYAGER'S LANDING

OFFSITE WATER IMPROVEMENTS

FERNDALE, WASHINGTON

GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE 1994 WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERNDALE DEVELOPMENT STANDARDS (DEVELOPMENT STANDARDS) AND SHALL BE SUBJECT TO APPROVAL BY APPROVAL BY CITY OF FERNDALE DEPARTMENT OF PUBLIC WORKS (PUBLIC WORKS).
2. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION CONFERENCE WITH PUBLIC WORKS A MINIMUM OF 3 WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION.
3. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE RIGHT-OF-WAY.
4. CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION AT 1-800-454-5555.
5. A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
6. THE CONTRACTOR SHALL PROVIDE ALL APPROPRIATE TESTS REQUIRED BY THE DEVELOPMENT STANDARDS.
7. THE CONTRACTOR IS RESPONSIBLE FOR ASSURING THAT ALL WORK IS INSPECTED BY A REPRESENTATIVE OF PUBLIC WORKS IN FULL ACCORDANCE WITH CHAPTER 3 OF THE DEVELOPMENT STANDARDS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC WORKS AND THE ENGINEER TO INSURE INSPECTION. CALL AT LEAST 24 HOURS IN ADVANCE FOR PUBLIC WORKS INSPECTION. IN ADDITION TO THE REQUIREMENTS OF THE DEVELOPMENT STANDARDS, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER TO ASSURE INSPECTION IMMEDIATELY AFTER.
 - A. PLACEMENT OF TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES
 - B. PLACEMENT OF WATER LINE AND BACKFILLING OF WATER LINE WITHIN ROAD RIGHT-OF-WAY.
 - C. PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHT-OF-WAY.
 - D. OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
 - E. END OF MAINTENANCE PERIOD.
8. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
9. 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 CLASS B ASPHALT. ALL REPAIRS SHALL BE ACCORDING TO DEVELOPMENT STANDARDS. AT A MINIMUM PERMANENT REPAIRS MUST REPAIR THE HARD SURFACE IN KIND.
10. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
11. CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM PUBLIC WORKS OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER AND PUBLIC WORKS.
12. TRAFFIC CONTROL TO BE MAINTAINED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 1-07.23.
13. CONTRACTOR SHALL POST A MAINTENANCE SECURITY AS REQUIRED BY PUBLIC WORKS.
14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THESE DATA MUST ACCURATELY REFLECT THE EXACT LOCATION OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES, AND HYDRANTS. CALL AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY. ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO PUBLIC WORKS UPON PROVISIONAL ACCEPTANCE OF ROAD AND UTILITY IMPROVEMENTS.
15. NOT ALL EXISTING UTILITIES OF RECORD MAY BE SHOWN IN THE PLANS. THESE ARE SHOWN FOR CONVENIENCE ONLY, AND THE ENGINEER ASSUMES NO RESPONSIBILITY FOR IMPROPER LOCATIONS OR FAILURE TO SHOW UTILITY LOCATIONS IN THE PLANS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGE.
16. THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
 - A. WHERE FEASIBLE, NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
 - B. WHERE CONSISTANT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
 - C. TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS/SEDIMENT PONDS

WATER NOTES

1. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH PUBLIC WORKS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOT OPERATE ANY VALVES.
2. ALL WATER MAIN PIPE SHALL BE DUCTILE IRON, THICKNESS CLASS 50, WITH CEMENT LINING ACCORDING TO A.W.W.A. STANDARD H3-71, C151-71, AND CEMENT LINING C104-71. MATERIAL FOR FITTINGS AND CROSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE FLANGED OR PUSH ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71. THE RESTRAINING OF DUCTILE IRON PIPE, FITTINGS AND VALVES SHALL BE ACCOMPLISHED BY USE OF EITHER A BOLTED OR BOLTSLESS SYSTEM. ANY DEVICE UTILIZING ROUND POINT SET SCREWS SHALL NOT BE PERMITTED.
3. CONCRETE THRUST BLOCKING SHALL BE AS SPECIFIED IN DEVELOPMENT STANDARDS, DETAIL NUMBERS W-2 THROUGH W-4, OR AS DIRECTED BY THE ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-11.3(13) OF THE STANDARD SPECIFICATIONS. NO PRE-CAST BLOCKS ARE ALLOWED.
4. HYDROSTATIC TESTS/DISINFECTION SHALL BE AS SPECIFIED IN SECT. 7-11.3(11) & 7-11.3(12) OF THE STANDARD SPECIFICATIONS. TEST PRESSURES FOR ACCEPTANCE SHALL BE 200 PSI OR 150 PSI ABOVE EXPECTED OPERATING PRESSURES & SHALL BE DONE IN ACCORDANCE WITH DEVELOPMENT STANDARDS. ALL PURIFICATION ACCEPTANCE SHALL BE DONE ACCORDING TO PUBLIC WORKS REQUIREMENTS. NO PIPE WILL PASS UNLESS ZERO BACTERIA COUNT IS OBTAINED FOR TWO CONSECUTIVE TESTS 24 HOURS APART.
5. ALL BACKFILL SHALL BE SELECT MATERIAL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
6. ALL VALVES SHALL BE IN ACCORDANCE WITH CITY OF FERNDALE SECTION 705.B.3.
7. ALL FIRE HYDRANTS SHALL BE IN ACCORDANCE WITH THE DEVELOPMENT STANDARDS SECTION 703.A.5 AND THIS PROJECT DETAIL.
8. ALL EXTENDIBLE BLOW-OFF ASSEMBLIES SHALL BE ACCORDING TO DEVELOPMENT STANDARDS DETAIL W-9.
9. ALL NON-EXTENDIBLE BLOW-OFF ASSEMBLIES SHALL BE ACCORDING TO DEVELOPMENT SECTION 703.A.5 & PROJECT DETAIL W-1.
10. ALL WATER SERVICES SHALL BE CONSTRUCTED ACCORDING TO DEVELOPMENT STANDARDS, CITY OF FERNDALE DETAIL W-5.

WATER CONNECTION NOTE

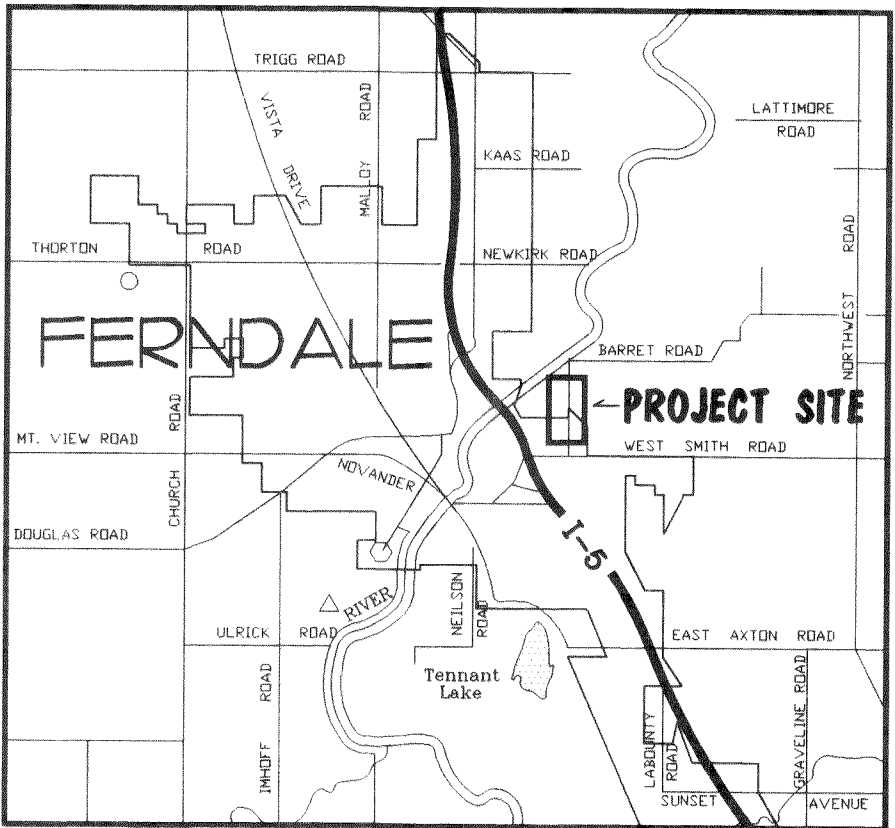
CONNECTION TO EXISTING WATERLINE SHALL BE MADE USING CITY OF FERNDALE APPROVED TEMPORARY BACK-FLOW PREVENTION AND PROCEDURES.

SHEET INDEX

1. COVER SHEET & GENERAL NOTES
2. OFFSITE WATER FROM STA: 0+00 TO 7+95.00
3. OFFSITE WATER FROM STA: 7+95.00 TO 19+81.00

LEGEND

- = FND BRASS CAP SURFACE MONUMENT
- ⊠ = FND PK NAIL WITH 2"x2" ALUM. FLASHER
- ⊠ = SET HUB AND TACK FOR WORK POINT
- ⊠ = EXISTING WATER BLOW-OFF VALVE
- ⊠ = EXISTING WATER VALVE
- ⊠ = EXISTING FIRE HYDRANT
- = EXISTING STORM DRAIN CATCH BASIN
- = EXISTING STORM SEWER LINE
- = EXISTING METAL LIGHT POLE
- = EXISTING WOOD POWER POLE/LIGHT POLE
- = EXISTING SANITARY SEWER MANHOLE
- = EXISTING GAS LINE MARKER POST
- = EXISTING MAILBOX
- = EXISTING BARBED WIRE FENCE
- = EXIST. EDGE OF PAVEMENT
- = EXIST. R.O.W.
- = CENTER LINE OF EXISTING PAVED ROADWAY
- = EXISTING UNDERGROUND TELEPHONE LINE
- = EXISTING UNDERGROUND SS FORCEMAIN
- = EXISTING UNDERGROUND WATER LINE
- = EXISTING OVERHEAD LINES
- = EXISTING EDGE OF VEGETATION

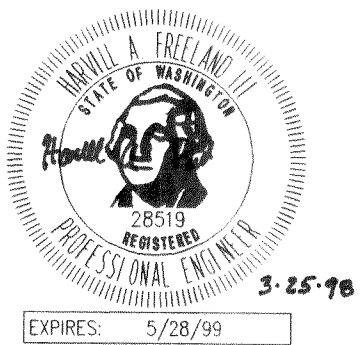


VICINITY MAP

CERTIFICATION

I HEREBY CERTIFY THAT THE IMPROVEMENTS IN VOYAGER'S LANDING HAVE BEEN INSPECTED BY PACIFIC SURVEY & ENGINEERING, 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.

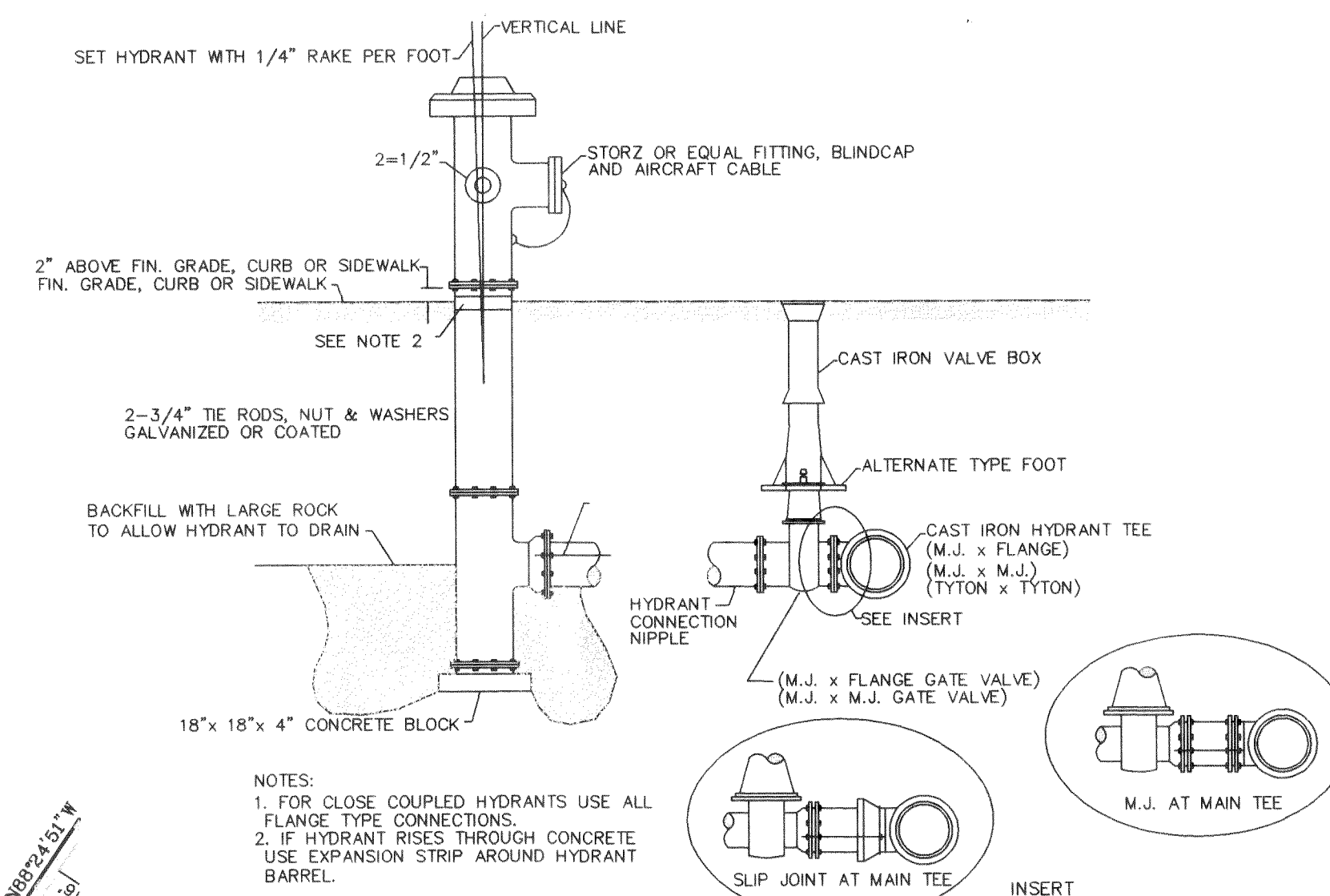
AS-BUILT



PACIFIC
SURVEY & ENGINEERING
INCORPORATED

1012 CORNWALL AVENUE
BELLINGHAM, WASHINGTON 98225
PHONE: 671-7927
FAX LINE: 671-4685


JOB NO. 96011
DWG NO. 960110SW
DATE: 3/25/98
SCALE: 1"=50'

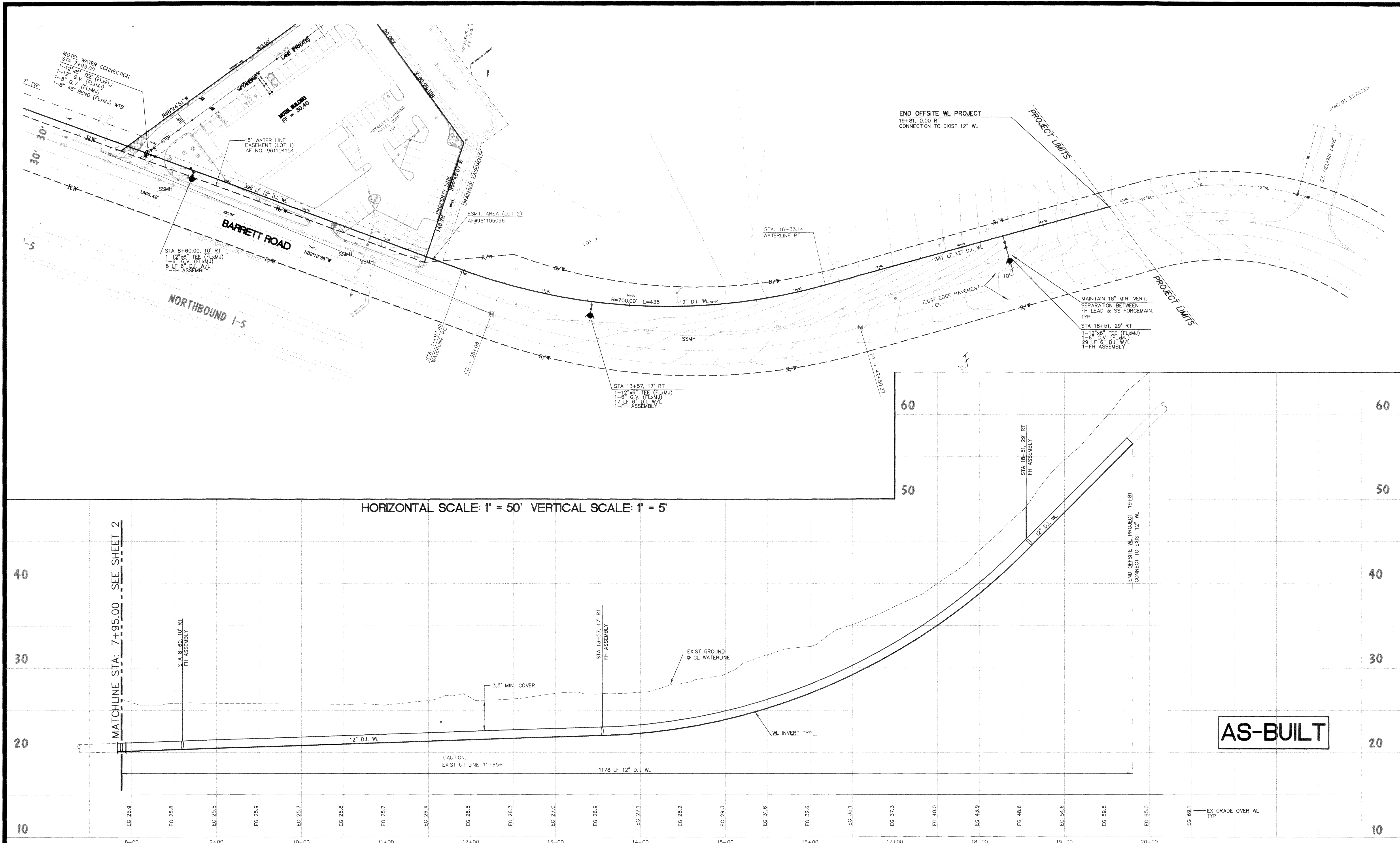


NOT TO SCALE
ALL FH'S SHEETS 2 & 3 (TYP)

HORIZONTAL SCALE: 1" = 50' VERTICAL SCALE: 1" = 5'

AS-BUILT

CALL BEFORE YOU DIG (206) 832-8320 1-800-424-5555		<table border="1"> <thead> <tr> <th colspan="2">FIELD BOOKS</th> <th>TBM. NO.</th> <th>LOCATION</th> <th>ELEV.</th> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr> <td>DESIGN</td> <td>120</td> <td></td> <td></td> <td></td> <td>BASE</td> <td></td> <td></td> <td>TELEPHONE</td> <td></td> <td></td> <td>1</td> <td>10/28/97</td> <td>REMOVE TEE, MOVE FH'S, PER PSE</td> <td>JPK</td> </tr> <tr> <td rowspan="3">STAKING</td> <td rowspan="3">120.02</td> <td rowspan="3"></td> <td rowspan="3">NORTH RIM OF MON. CASE @ S.I. W. SMITH RD. & BARRETT RD. N. RIM EL = 81.78</td> <td rowspan="3"></td> <td>TOPOGRAPHY</td> <td></td> <td></td> <td>ELECTRIC</td> <td></td> <td></td> <td>2</td> <td>10/31/97</td> <td>CITY OF FERNDAL REVISIONS</td> <td>JPK</td> </tr> <tr> <td>PROFILE</td> <td></td> <td></td> <td>CABLE TV</td> <td></td> <td></td> <td>3</td> <td>11/6/97</td> <td>CITY OF FERNDAL REVISIONS</td> <td>JPK</td> </tr> <tr> <td>SANITARY SEWER</td> <td></td> <td></td> <td>DESIGN</td> <td>JPK</td> <td>HAF</td> <td>4</td> <td>3/31/97</td> <td>REVISE FIRE HYDRANT LOCATIONS, ADD PRESSURE</td> <td>JEW</td> </tr> <tr> <td>ASBUILT</td> <td>120.03</td> <td></td> <td></td> <td></td> <td>STORM SEWER</td> <td></td> <td></td> <td>QUANTITIES</td> <td></td> <td></td> <td>5</td> <td>3/31/97</td> <td>RELIEF VALVE, ADD ADDITIONAL HOOK--UP</td> <td>JEW</td> </tr> <tr> <td>CONTRACTOR</td> <td></td> <td></td> <td></td> <td></td> <td>WATER</td> <td>JPK</td> <td>HAF</td> <td>FINAL CHECK</td> <td></td> <td></td> <td>6</td> <td>3/25/98</td> <td>AS-BUILT</td> <td>JPK</td> </tr> <tr> <td>INSPECTOR</td> <td></td> <td></td> <td></td> <td></td> <td>GAS</td> <td></td> <td></td> <td>DWG. # 960110SW</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>CONSTRUCTION RECORD</td> <td></td> <td></td> <td>VERTICAL DATUM</td> <td></td> <td></td> <td></td> <td></td> <td>PLAN CHECK</td> <td></td> <td></td> <td></td> <td></td> <td>REVISIONS</td> <td></td> </tr> </tbody> </table>										FIELD BOOKS		TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	DESIGN	120				BASE			TELEPHONE			1	10/28/97	REMOVE TEE, MOVE FH'S, PER PSE	JPK	STAKING	120.02		NORTH RIM OF MON. CASE @ S.I. W. SMITH RD. & BARRETT RD. N. RIM EL = 81.78		TOPOGRAPHY			ELECTRIC			2	10/31/97	CITY OF FERNDAL REVISIONS	JPK	PROFILE			CABLE TV			3	11/6/97	CITY OF FERNDAL REVISIONS	JPK	SANITARY SEWER			DESIGN	JPK	HAF	4	3/31/97	REVISE FIRE HYDRANT LOCATIONS, ADD PRESSURE	JEW	ASBUILT	120.03				STORM SEWER			QUANTITIES			5	3/31/97	RELIEF VALVE, ADD ADDITIONAL HOOK--UP	JEW	CONTRACTOR					WATER	JPK	HAF	FINAL CHECK			6	3/25/98	AS-BUILT	JPK	INSPECTOR					GAS			DWG. # 960110SW							CONSTRUCTION RECORD			VERTICAL DATUM					PLAN CHECK					REVISIONS		PACIFIC SURVEY & ENGINEERING INCORPORATED 1812 CORNWALL AVENUE BELLINGHAM, WASHINGTON 98225 PHONE: 478-7887 FAX LINE: 478-4825			VOYAGER'S LANDING FERNDAL, WASHINGTON OFFSITE WATER EXTENSION	SCALE: HOR 1" = 50' VER 1" = 5' DATE: 3/25/98 JOB/ACCT. NO. 96011 SHEET 2 of 3
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		W. SMITH RD. & BARRETT RD.		SANITARY SEWER			DESIGN	JKP	HAF	4	3/31/97	REVISE FIRE HYDRANT LOCATIONS	JEV
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PACIFIC
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1812 CORNWALL AVENUE
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PHONE: 471-7981
FAX LINE: 471-4625



**VOYAGER'S LANDING
FERNDAL, WASHINGTON
OFFSITE WATER EXTENSION**

SCALE: HOR 1" = 50' VER 1" = 5' DATE: 3/25/98 JOB/ACCT. NO. 96011 SHEET 3 OF 3

00085.003 2-2-06 KK