# MOUNTAIN VIEW APARTMENTS - PHASE II

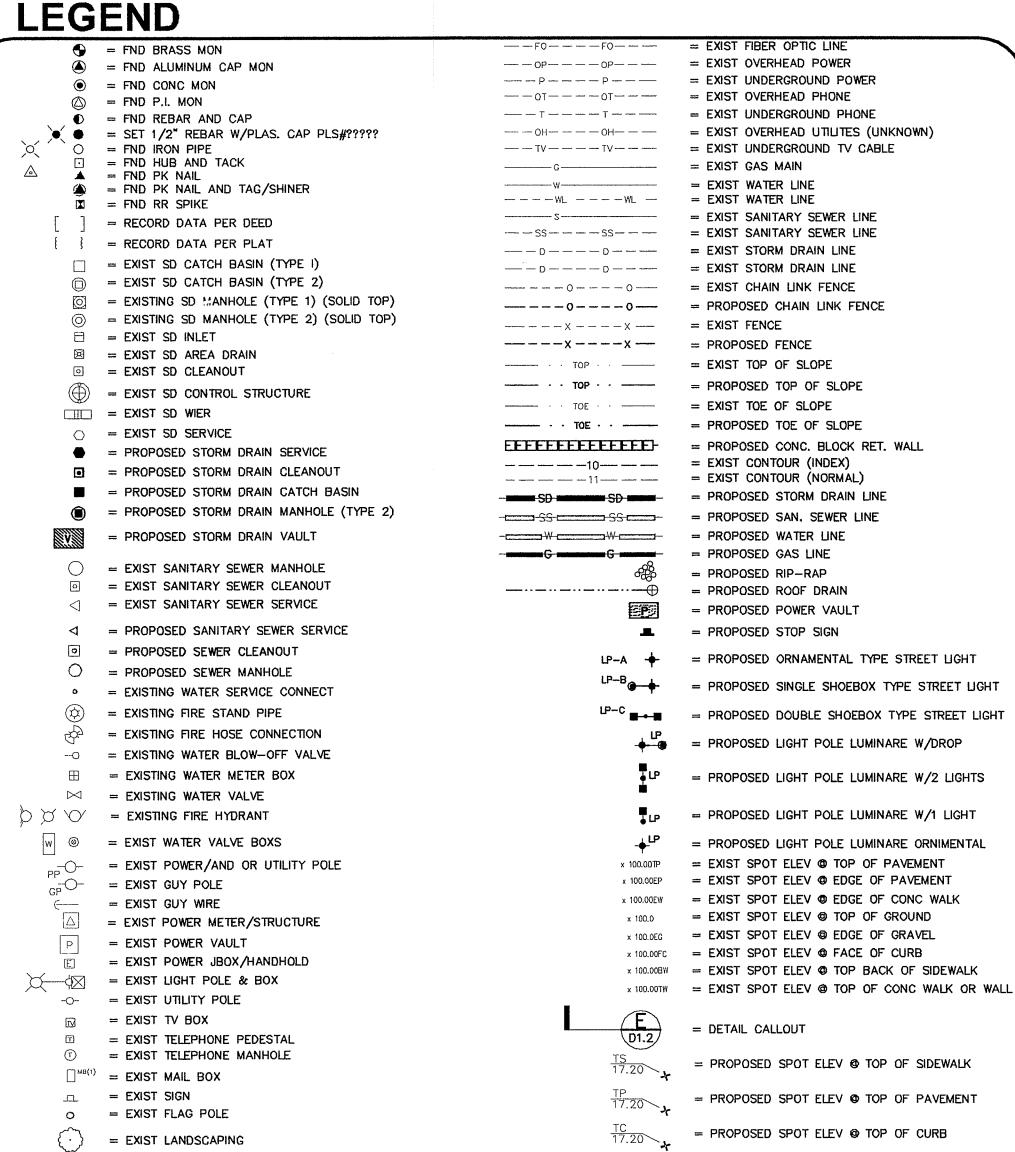
2373 MAIN STREET

SITUATE IN A PORTION OF THE NE 1/4, NW 1/4 OF SECTION 30, T. 39 N., R. 2 E., W.M. CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

= EXIST VEGETATION LINE

OGN = EXIST GAS METER

= SOIL REPORT TEST PIT EXPLORATION & #



# SHEET INDEX

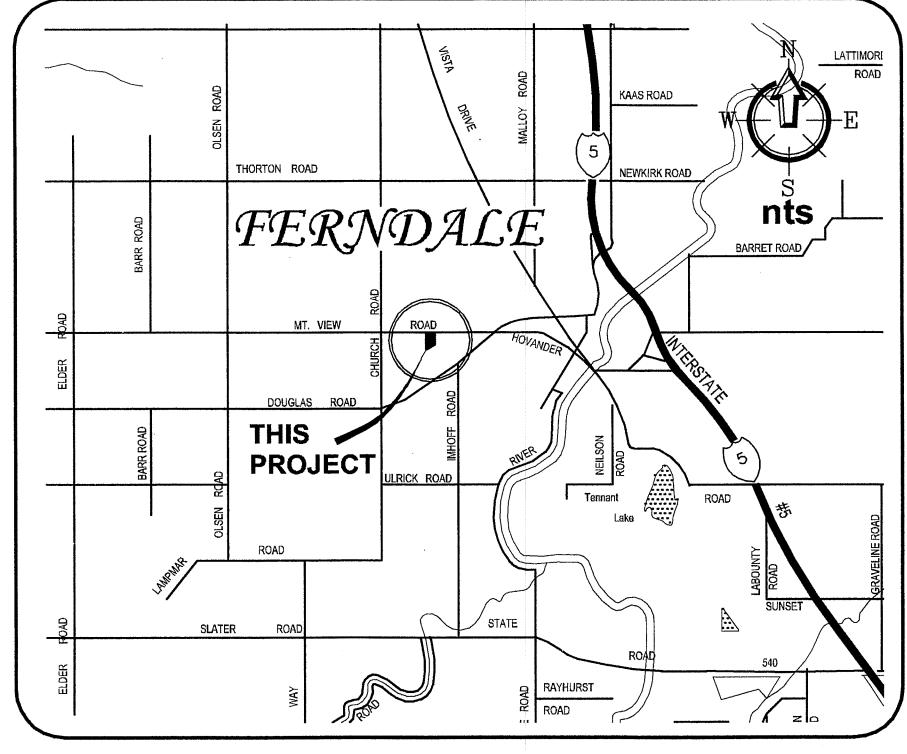
- **COVER SHEET**
- **TEMPORARY EROSION &** SEDIMENTATION CONTROL PLAN
- STORMWATER SITE PLAN
- **RAIN GARDEN GRADING & PLANTING PLAN**
- STORMWATER & PAVEMENT DETAILS
- **WATER & SANITARY SEWER PLAN**
- WATER & SANITARY SEWER DETAILS

= CURVE RETURN

| ABBREVIATIONS |  |   |  |  |  |  |  |  |
|---------------|--|---|--|--|--|--|--|--|
|               | WL PVC D.I. LF FH/F.HYD. MJ FL BO CPLG ADAPT L/LT R/RT TYP EX, EXST EXIST CL/C.L. FF/FFE EP, EOP EL, ELEV FGE/FG RAD R L | = WATER LINE = POLY VINYL CHLORIDE = DUCTILE IRON = LINEAR FEET = FIRE HYDRANT = MECHANICAL JOINT = FLANGE/FLOWLINE = BLOWOFF ASSEMBLY = COUPLING = ADAPTER = LEFT = RIGHT = TYPICAL = EXISTING = EXISTING = CENTERLINE = FINISH FLOOR = EDGE OF PAVING = ELEVATION = RADIUS = RADIUS OR RIGHT = LENGTH OR LEFT | IE INV SSCO SSMH EG STA AF NO. ALIGN RW/ROW TR MB UTIL REQ LOC APPROX CONC PLNTR WLK FLD PC PT TYP./TYP SDCB | = INVERT ELEVATION = INVERT = SANITARY SEWER CLEANOUT = SANITARY SEWER MANHOLE = EXISTING GRADE = STATION = AUDITORS FILE NUMBER = ALIGNMENT = RIGHT OF WAY = TRACT EASEMENT LINE = MAIL BOX = UTILITY = REQUIRED = LOCATION = APPROXIMATE = CONCRETE = PLANTER = WALKWAY = FIELD = POINT OF CURVE = POINT OF TANGENCY = TYPICAL = STORM DRAIN CATCH BASIN = STORM DRAIN MANHOLE |  |  |  |  |
|               | HDPE<br>SCH.   | = HIGH DENSITY POLYETHYLENE<br>= SCHEDULE   | SDMH<br>FM   | = STORM DRAIN MANHULE<br>= SANITARY FORCE MAIN   |  |  |  |  |
|               | SMMWW  | = STORMWATER MANAGEMENT MANUAL<br>FOR WESTERN WASHINGTON.   | MH<br>SS   | = MANHOLE<br>= SANITARY SEWER  |  |  |  |  |
|               | SF   | = SILT FENCE  | SD   | = STORM DRAIN  |  |  |  |  |
|               | WSDOE  | = WASHINGTON STATE DEPARTMENT OF ECOLOGY  | Δ<br>POC   | = DELTA ANGLE<br>= POINT ON CURVE  |  |  |  |  |
|               | C.O.F./COF   | = CITY OF FERNDALE  | PRC  | = POINT OF REVERSE CURVE   |  |  |  |  |
|               | SW   | = SIDEWALK  | PCC  | = POINT OF COMPOUND CURVE  |  |  |  |  |

ENGINEER'S CERTIFICATION:

# **VICINITY MAP**



# PROJECT CONTACTS

## OWNER

MOUNTAIN VIEW RDM, LLC CONTACT PERSON: DANNY FINKELSTIEN 910 HARRIS STREET, UNIT 502 BELLINGHAM, WA, 98225 PHONE: (360) 354-0333 FAX: (360) 354-7022

### CIVIL ENGINEER

FREELAND & ASSOCIATES, INC. TONY FREELAND, PE 220 W. CHAMPION ST.; STE. 290 BELLINGHAM, WA 98225 (360) 650-1408 (360) 650-1401 (FAX)

## **SURVEYOR**

CHRISTIE AND CHRISTIE LAND SURVEYING, INC. BRIAN CHRISTIE, PLS 22 GRAND AVE, SUITE D BELLINGHAM, WA 98225 (360) 671-8855 (360) 671-8823 (FAX)



## 05097ASB4.dwg

Bellingham, WA 98225

220 W. Champion Street, Ste. 290 t: 360.650.1408 f: 360.650.1401 JOB #: 05097

CITY OF FERNDALE PROJECT #DVLP 2006-14

SURVEYOR'S CERTIFICATION:
"I CERTIFY THAT ON 9-10-2009 A FIELD AS-BUILT SURVEY WAS PERFORMED AT \_\_\_\_ UNDER MY DIRECTION AND THAT DATA FROM THAT FIELD SURVEY INCLUDING LOCATION SHOTS, INVERT MEASUREMENTS AND FIELD NOTES WERE SUPPLIED TO THE CIVIL ENGINEER OF RECORD FOR THEIR PREPARATION

= PROPOSED SPOT ELEV @ TOP OF FINISHED GRADE

= EXISTING WETLAND

OF THESE AS-BUILT PLANS. SAID FIELD SURVEY WORK MEETS OR EXCEEDS THE MINIMUM SURVEY STANDARDS AS PER WAC 332.130.090." By: Busic D Christie Date: 2-4-2010

STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE." Date: 2-4-10 By: Thua f

"I HEREBY CERTIFY THAT THE IMPROVEMENTS FOR

INSPECTED BY FREELAND & ASSOCIATES, INC. AND

CONSTRUCTED IN CONFORMANCE WITH THE CITY OF

FERNDALE DEVELOPMENT STANDARDS, THE CITY OF

THE MOUNTAIN VIEW APARTMENTS HAVE BEEN

TO THE BEST OF MY KNOWLEDGE, HAVE BEEN

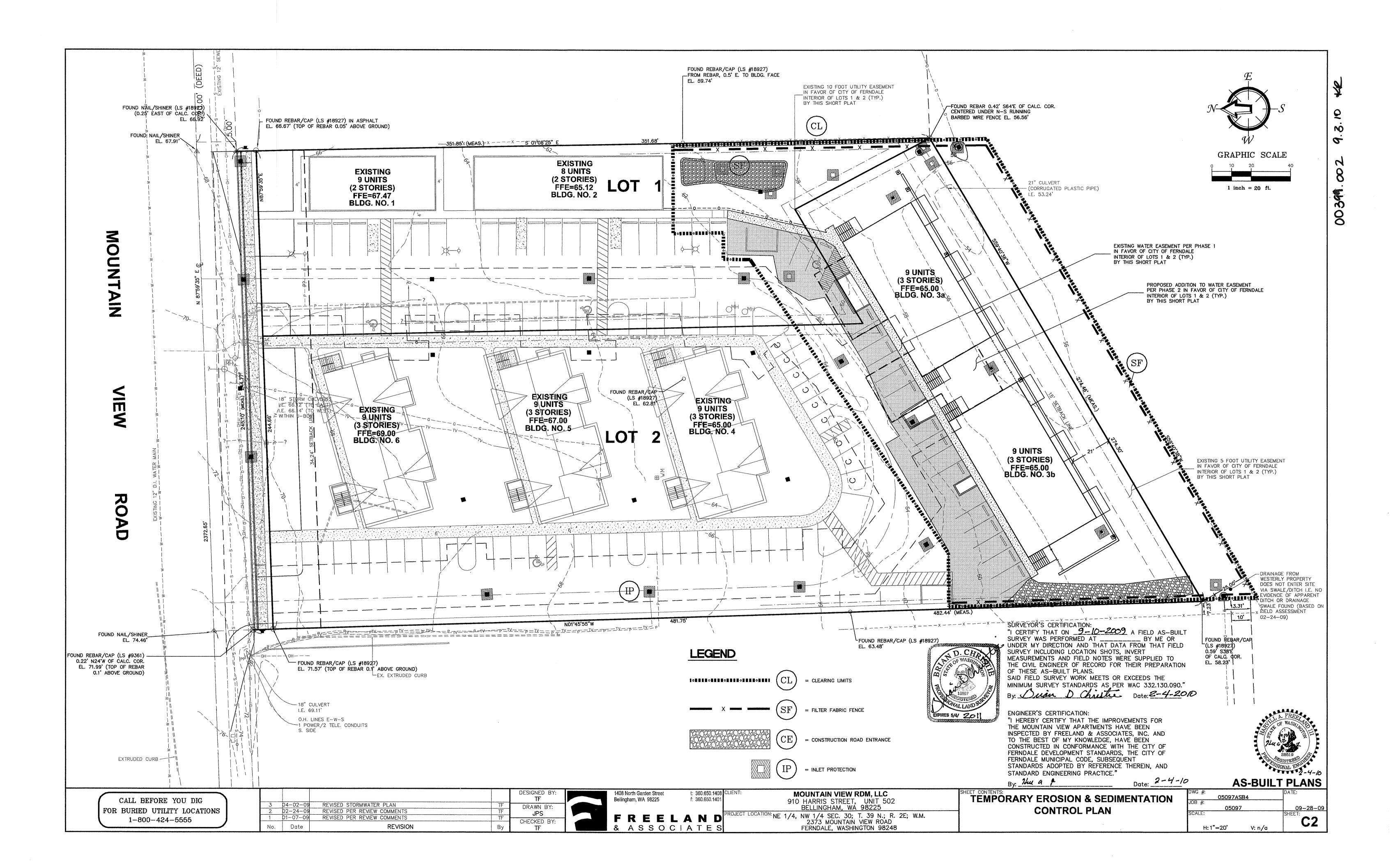
FERNDALE MUNICIPAL CODE, SUBSEQUENT

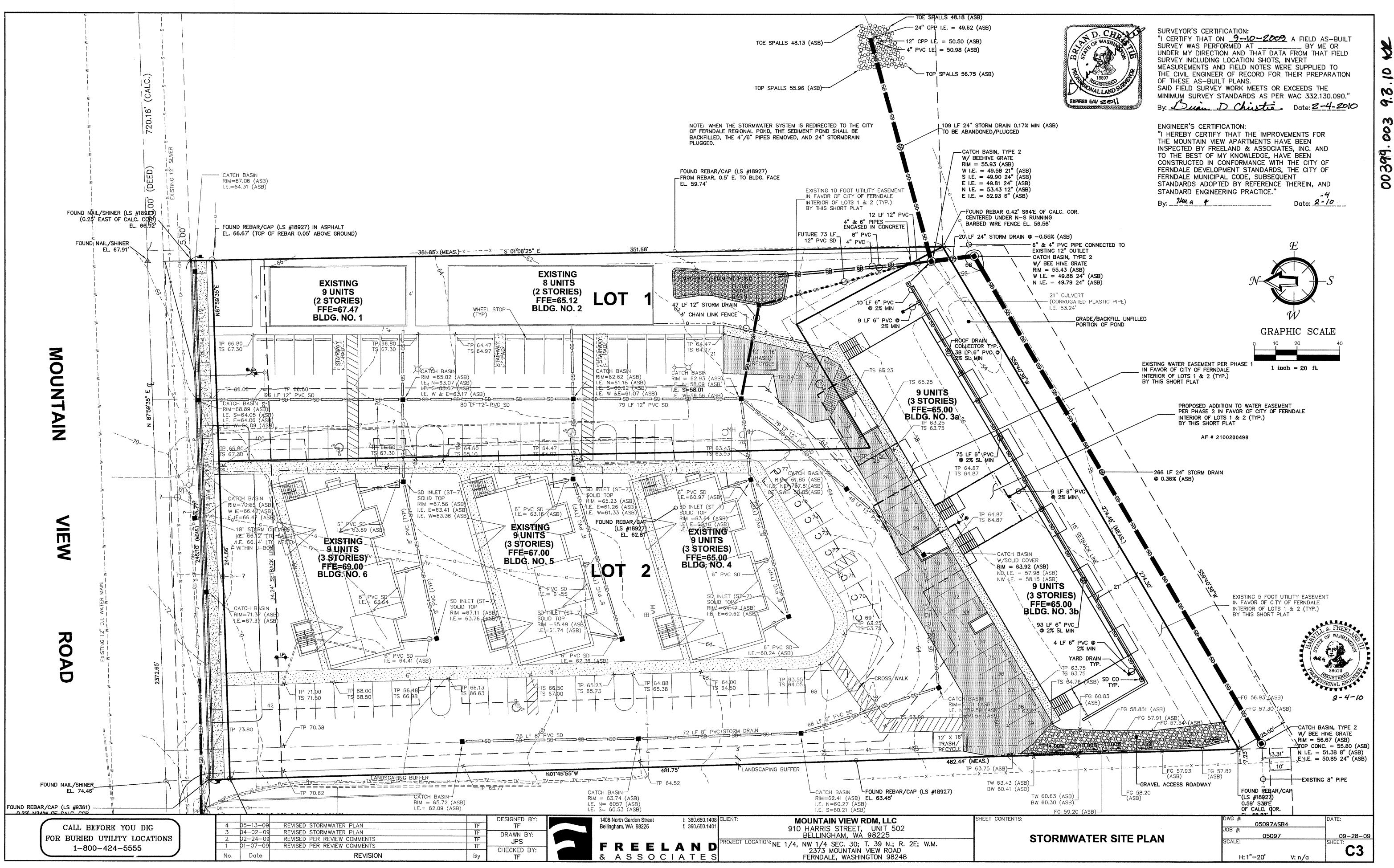
= AS-BUILT

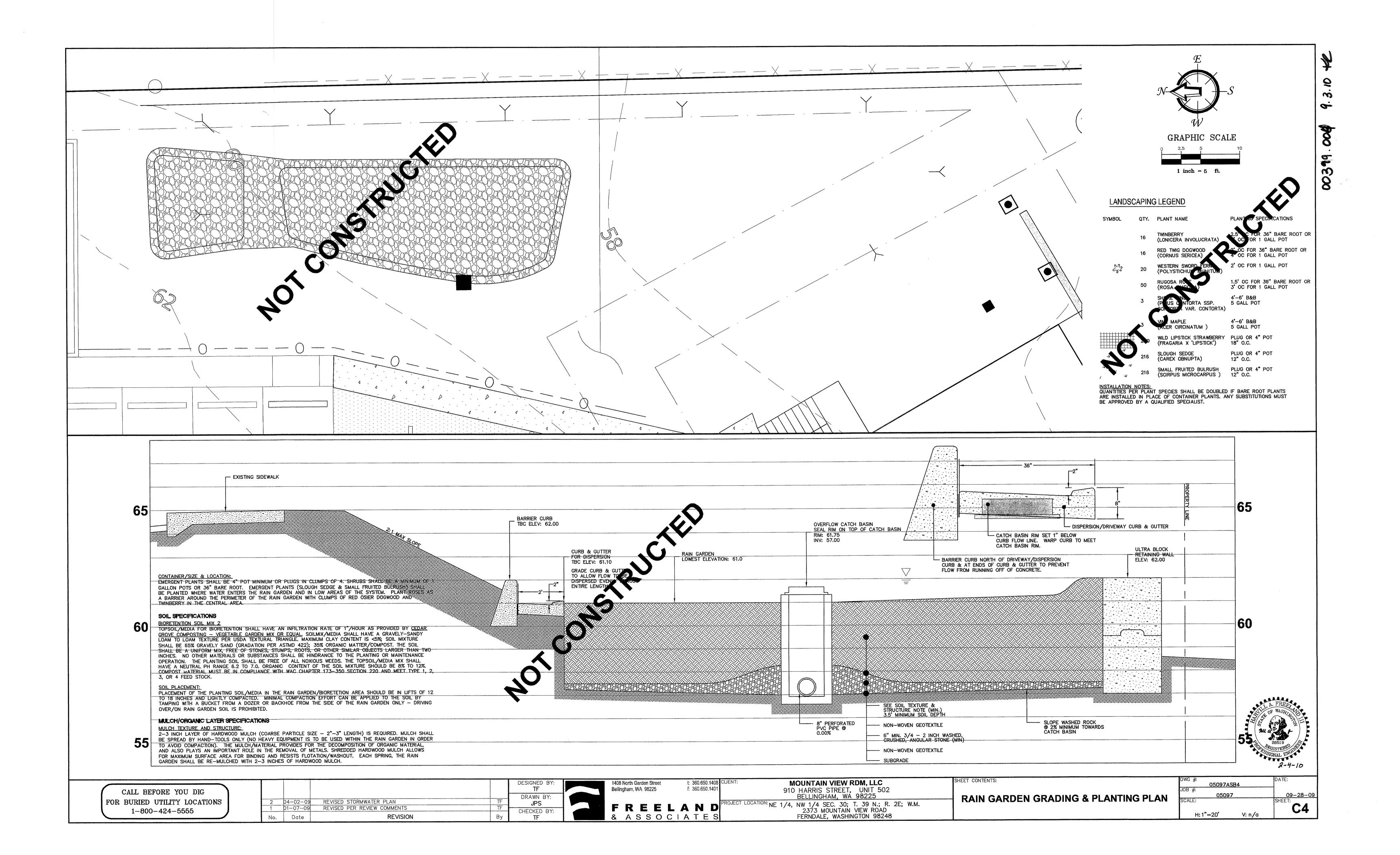
CALL BEFORE YOU DIG FOR BURIED UTILITY LOCATIONS 1-800-424-5555

FREELAND & ASSOCIATES

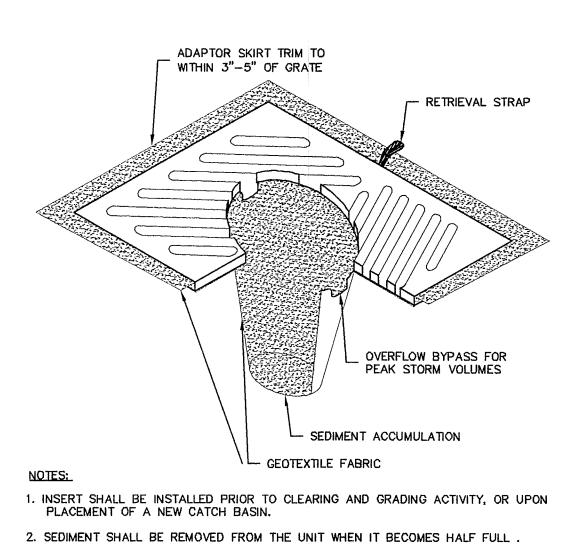
**AS-BUILT PLANS** 







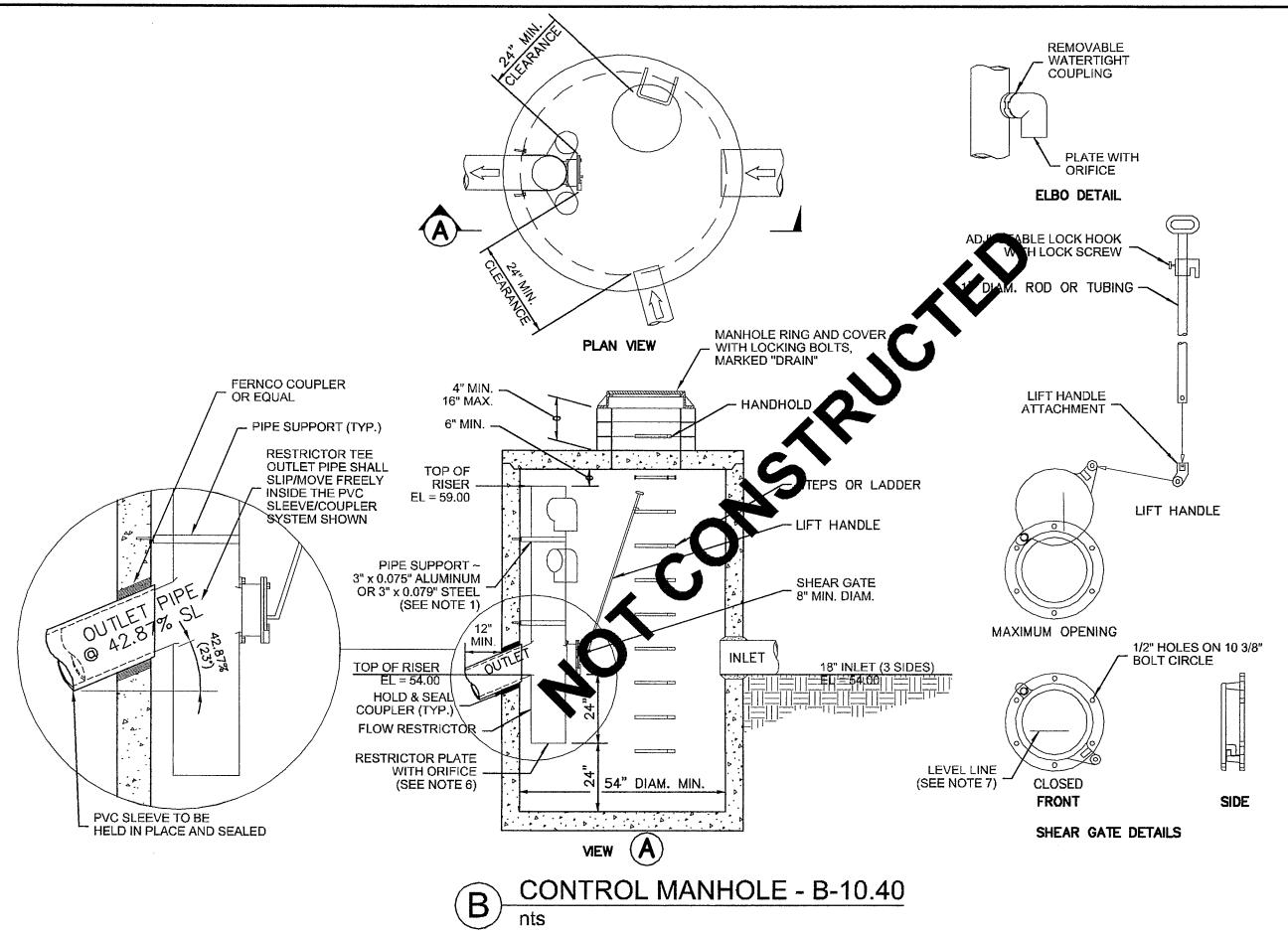




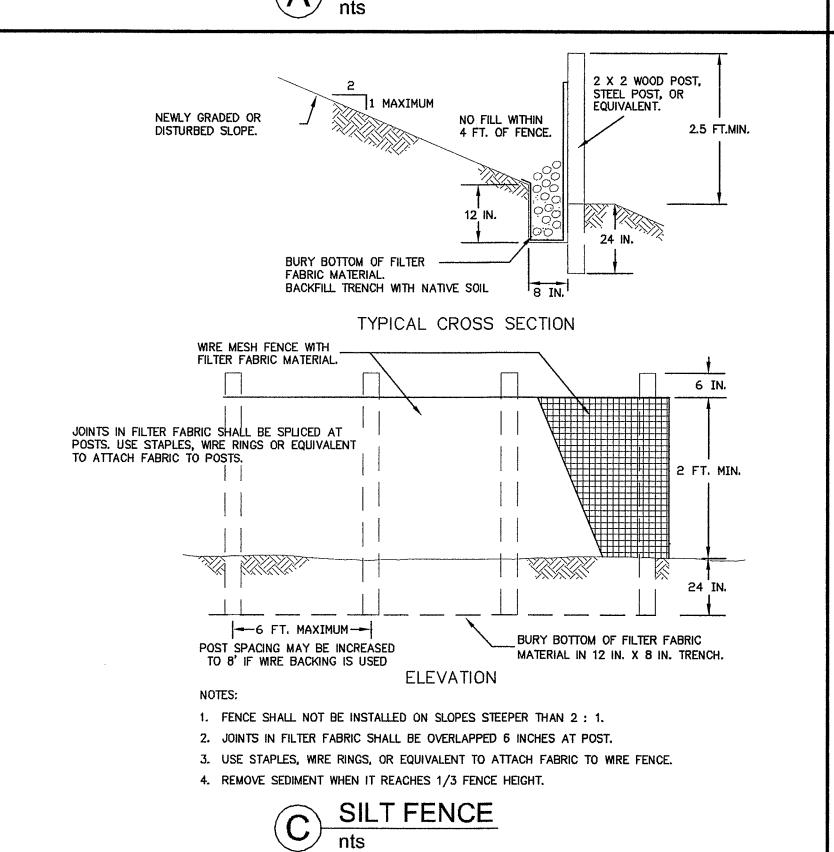
3. SEDIMENT REMOVAL SHALL BE ACCOMPLISHED BY REMOVING THE INSERT, EMPTYING, AND

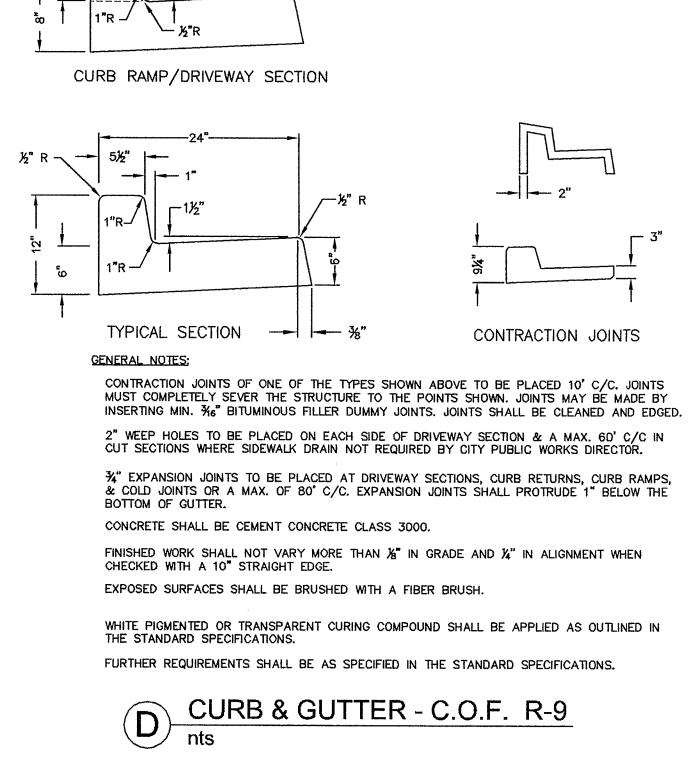
CATCH BASIN INSERT

RE-INSERTING IT INTO THE CATCH BASIN.

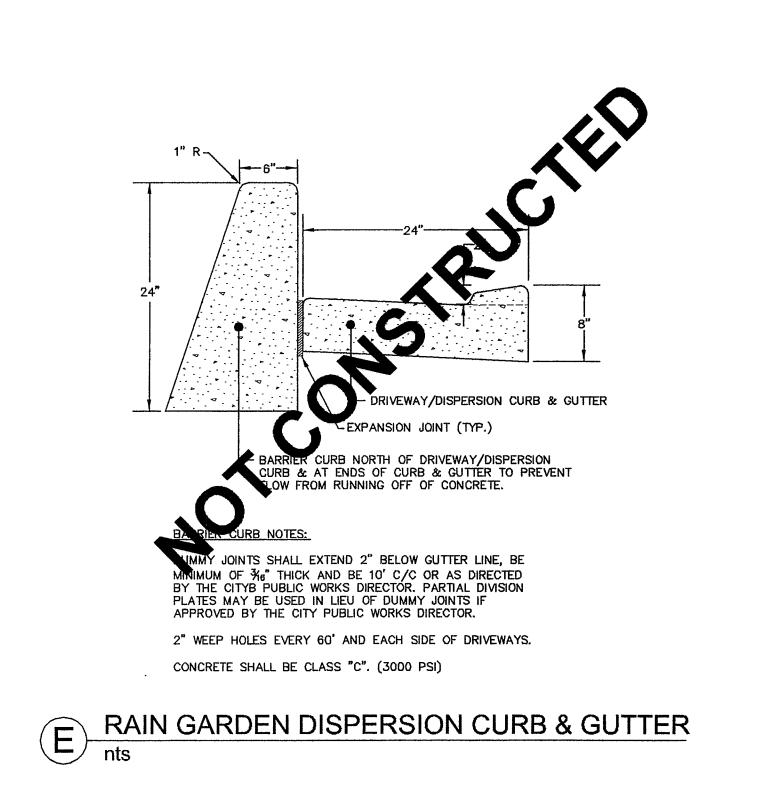


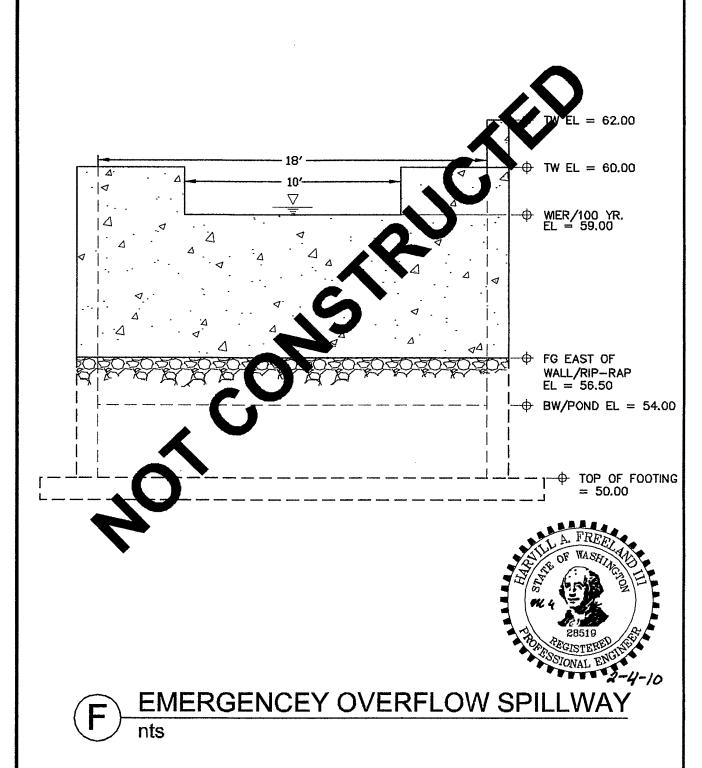
1. The pipe supports and the flow restrictor shall be constructed of the same material and be anchored at a maximum spacing of 36". Attach the pipe supports to the manhole with 5/8" stainless steel expansion bolts or embed the supports into the manhole wall 2". 2. The vertical riser stem of the flow restrictor shall be the same diameter as the horizontal outlet pipe with a minimum diameter of 8". 3. The flow restrictor shall be fabricated from one of the following materials: 0.060" Corrugated Aluminum Alloy Drain Pipe 0.064" Corrugated Galvanized Steel Drain Pipe with Treatment 1 0.064" Corrugated Aluminized Steel Drain Pipe 0.060" Aluminum alloy flat sheet, in accordance with ASTM B 209, 5052 H32 or EPS High Density Polyethylene Storm Sewer Pipe 4. The frame and ladder or steps are to be offset so that: the shear gate is visible from the top; the climb-down space is clear of the riser and gate; the frame is clear of the curb. 5. The multi-orifice elbows may be located as shown, or all placed on one side of the riser to assure ladder clearance. The size of the elbows and their placement shall be specified in the Contract. 6. Restrictor plate with orifice as specified in the Contract. The opening is to be cut round and smooth. 7. The shear gate shall be made of aluminum alloy in accordance with ASTM B 26 and ASTM B 275, designation ZG32A; or cast iron in accordance with ASTM A 48, Class 30B. The lift handle shall be made of a similar metal to the gate (to prevent galvanic corrosion), it may be of solid rod or hollow tubing, with adjustable hook as required. A neoprene rubber gasket is required between the riser mounting flange and the gate flange. Install the gate so that the level-line mark is level when the gate is closed. The mating surfaces of the lid and the body shall be machined for proper fit. All shear gate bolts shall be stainless steel. 8. The shear gate maximum opening shall be controlled by limited hinge movement, a stop tab, or some other device. 9. Alternative shear gate designs are acceptable if material specifications are met and flange bolt pattern matches. ORFICE SCHEDULE 2 57.33 1.10 3 57.75





\_ ¾" — <u>NOTE</u>: MAX. ½" MIN. ¼"





|     | CALL BEFORE YOU DI  | iG )   |
|-----|---------------------|--------|
| FOR | BURIED UTILITY LOCA | ATIONS |
|     | 1-800-424-5555      | ノ      |

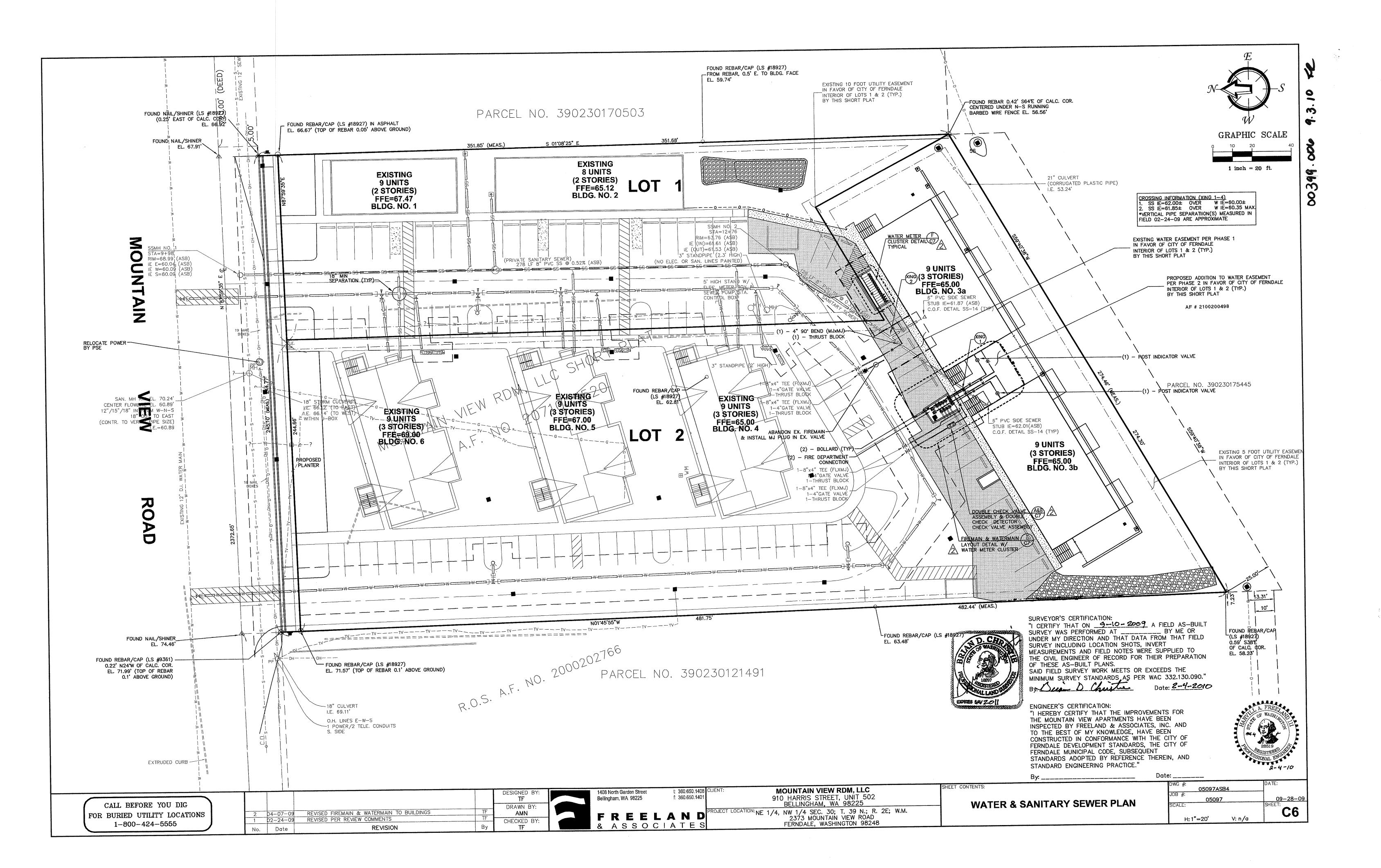
DESIGNED BY DRAWN BY: REVISED PER REVIEW COMMENTS JPS REVISED PER REVIEW COMMENTS CHECKED BY Date REVISION

1408 North Garden Street t: 360,650,1408 CLIENT: Bellingham, WA 98225 f: 360.650.1401 & ASSOCIATE

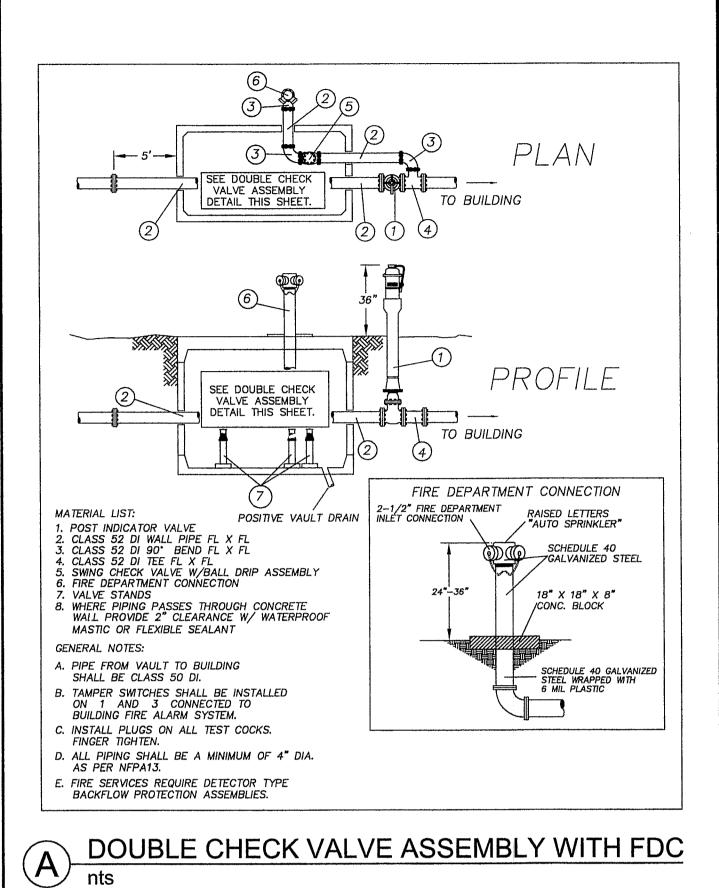
MOUNTAIN VIEW RDM, LLC 910 HARRIS STREET, UNIT 502 BELLINGHAM, WA 98225 ROJECT LOCATION: NE 1/4, NW 1/4 SEC. 30; T. 39 N.; R. 2E; W.M. 2373 MOUNTAIN VIEW ROAD FERNDALE, WASHINGTON 98248

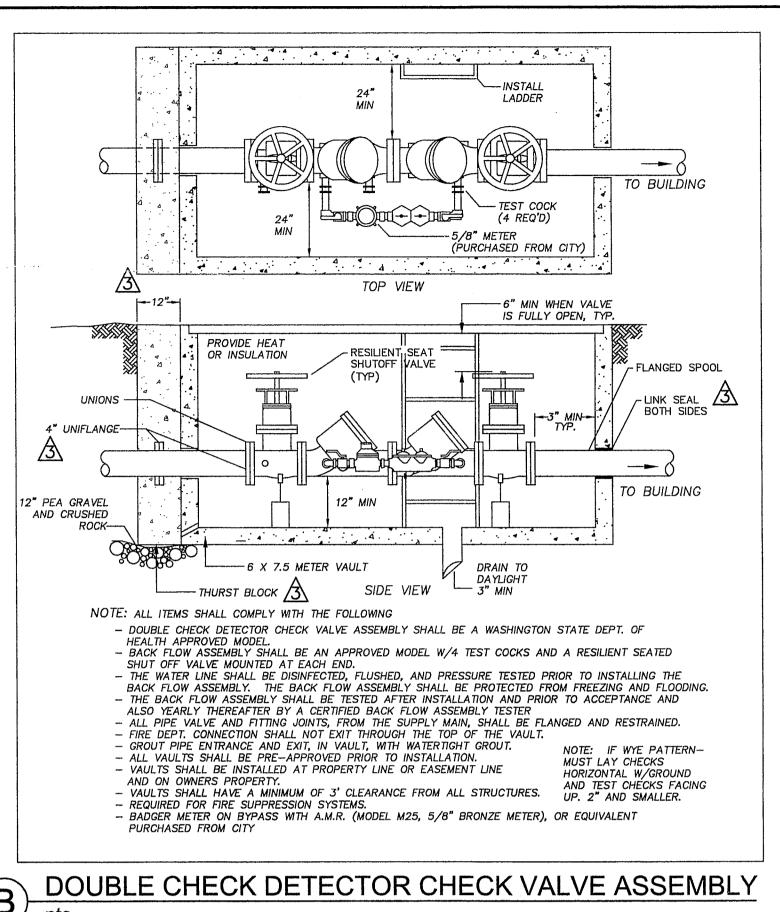
STOWMWATER & PAVEMENT **DETAILS** 

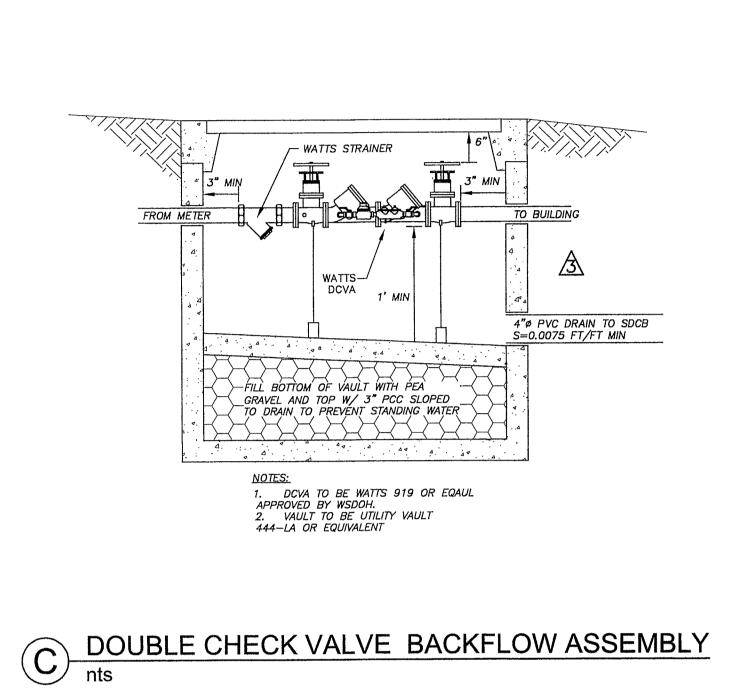
05097ASB4 09-28-09 SHEET: H: 1"=20'

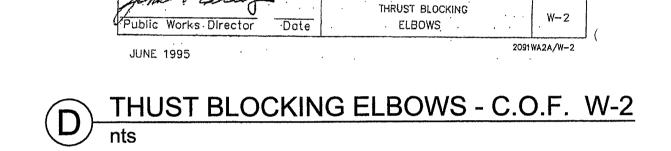










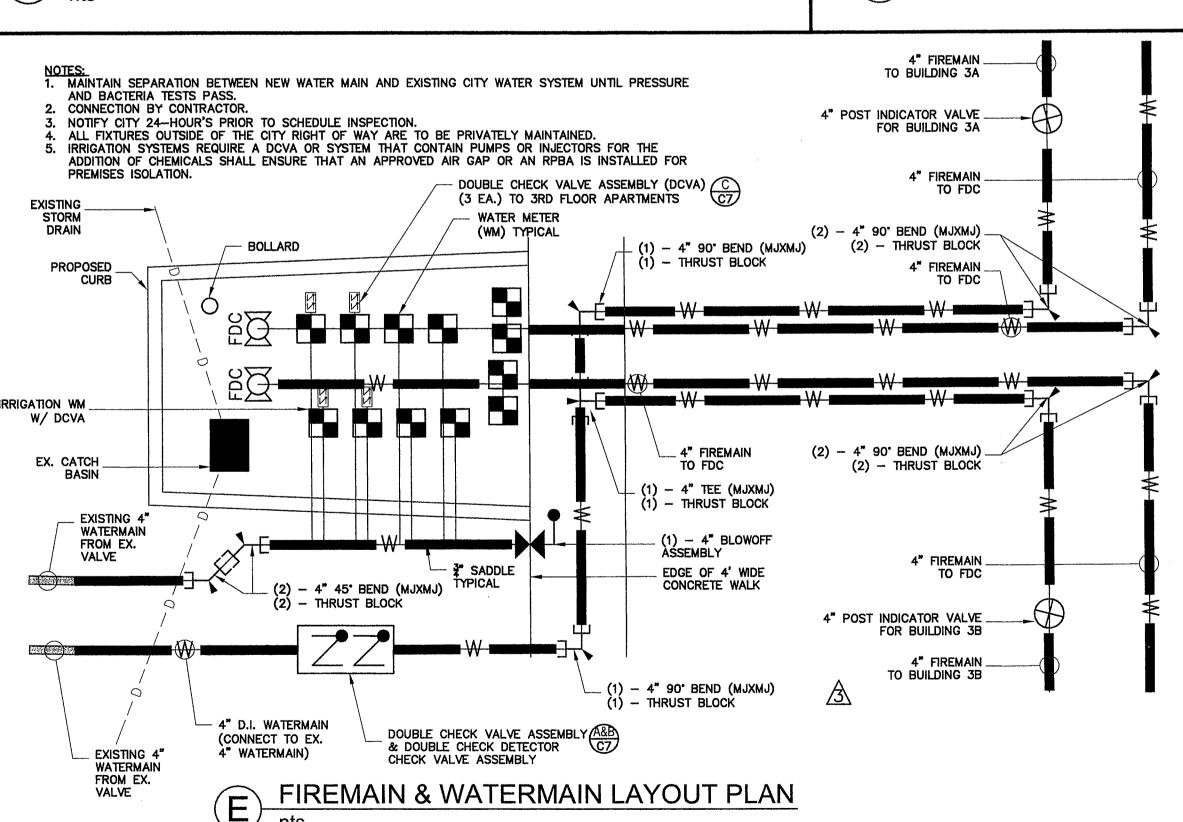


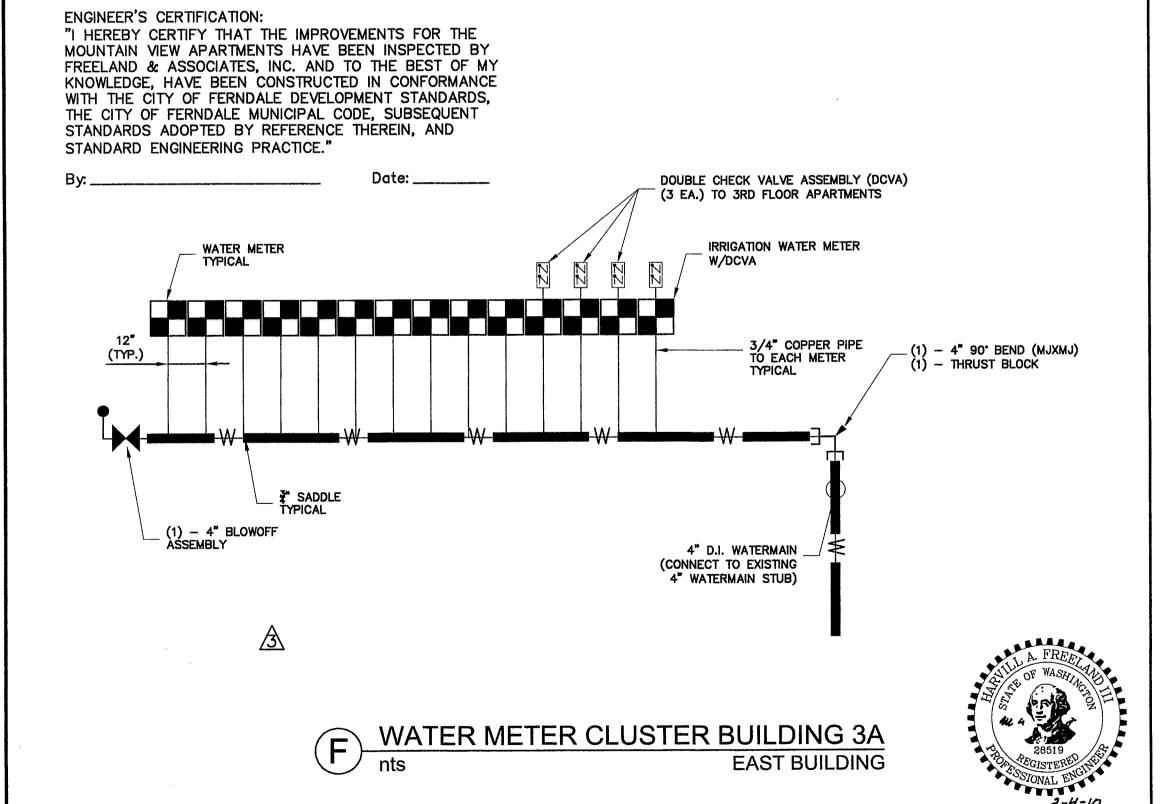
ALL ABOVE DIMENSIONS APPLY TO STABLE TRENCH WALLS, UNDER VARIBLE CONDITIONS SIZE OF THRUST BLOCK SHALL BE DETERMINED BY ENGINEER.

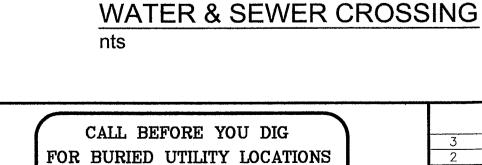
100 P.S.I. OPERATING PRESSURE

CITY OF FERNDALE

B DC nts







1-800-424-5555

WATERMAIN

CONTROL DENSITY

BACKFILL (CDF)

CENTER PIPE

ON CROSSING

|       |                               |    | DESIGNED BY:<br>TF |
|-------|-------------------------------|----|--------------------|
| 07-09 | REVISED WATER SERVICE DETAILS | TF | DRAWN BY:          |
| 24-09 | REVISED PER REVIEW COMMENTS   | TF | JPS                |
| 19-08 | REVISED PER REVIEW COMMENTS   | TF |                    |
| Date  | REVISION                      | Ву | CHECKED BY:<br>TF  |
|       |                               |    |                    |



MOUNTAIN VIEW RDM, LLC 910 HARRIS STREET, UNIT 502 BELLINGHAM, WA 98225 ROJECT LOCATION: NE 1/4, NW 1/4 SEC. 30; T. 39 N.; R. 2E; W.M. 2373 MOUNTAIN VIEW ROAD FERNDALE, WASHINGTON 98248

**WATER & SANITARY SEWER DETAILS** 

|                         |        | 2-7-10    |
|-------------------------|--------|-----------|
| <br>DWG #:<br>05097ASB4 |        | DATE:     |
| JOB #: <b>05097</b>     |        | 09-28-    |
| SCALE:                  |        | SHEET: C7 |
| H: 1"=20'               | V: n/a | 61        |