





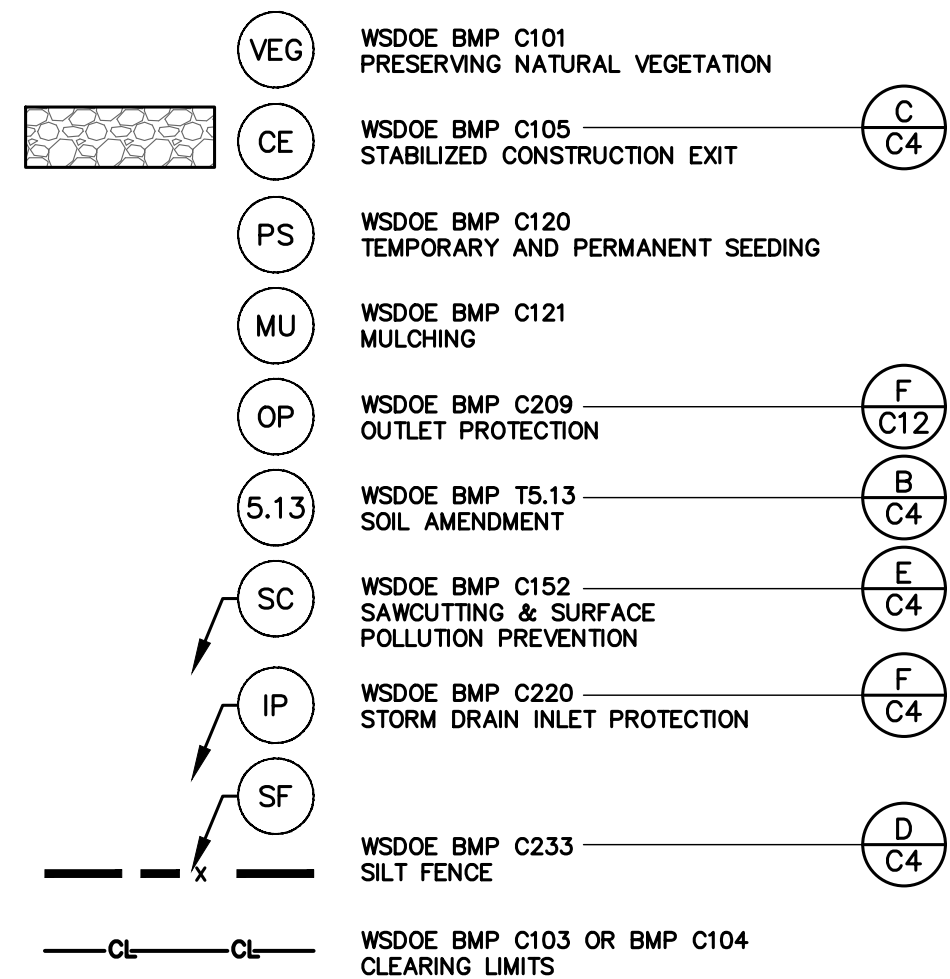






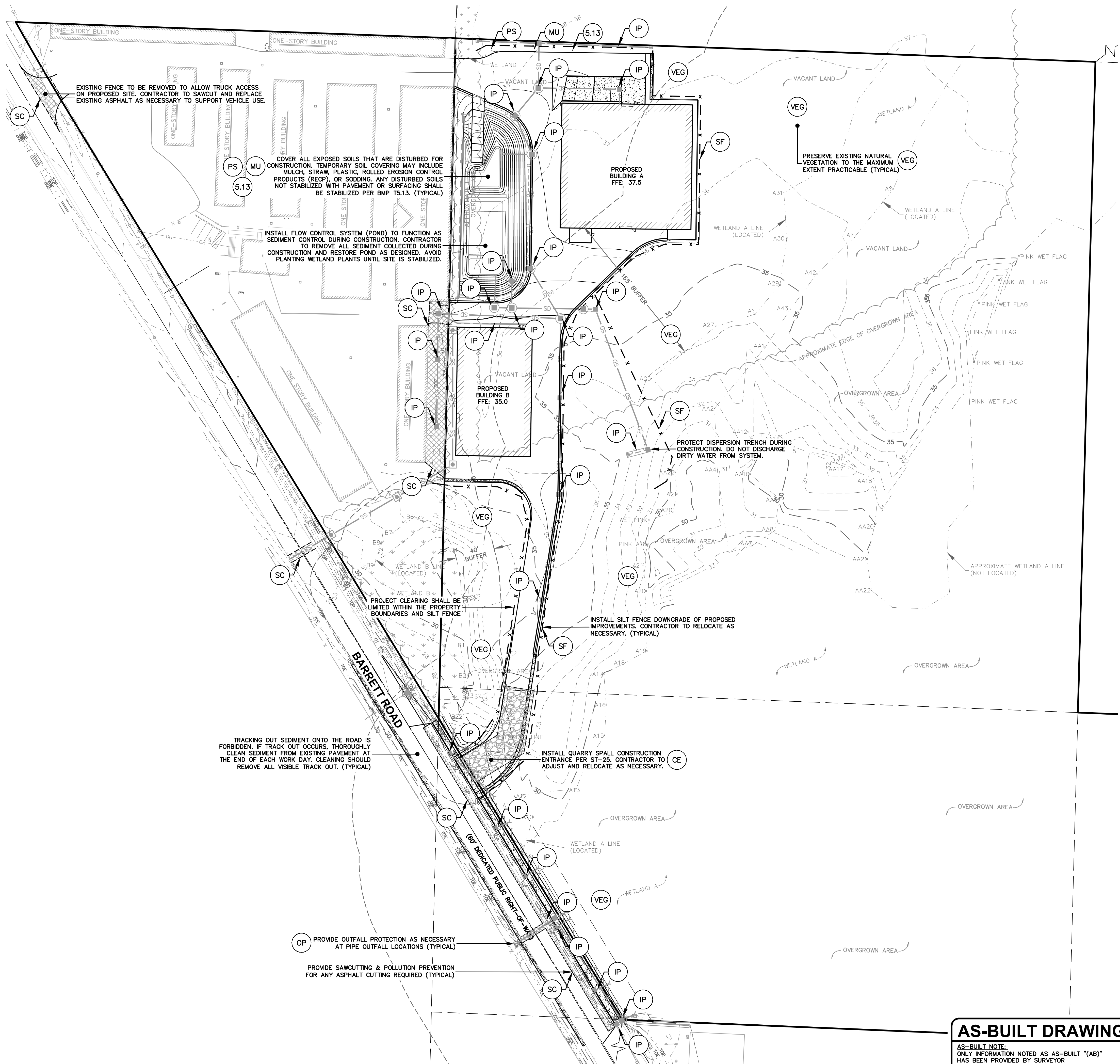
1. TEMPORARY EROSION CONTROL BMPs SHOWN IN THESE PLANS ARE THE MINIMUM NECESSARY FOR PERMIT APPROVALS. ADDITIONAL BMPs MAY BE REQUIRED DURING THE COURSE OF CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE PROVIDED FOR ADDITIONAL BMPs OR BMP MAINTENANCE THAT MAY BE REQUIRED DURING CONSTRUCTION.
2. THIS PROJECT WILL DISTURB MORE THAN ONE ACRE OF SOIL AND WILL REQUIRE A NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) CONSTRUCTION GENERAL PERMIT FROM WASHINGTON DEQ. THE OWNER WILL OBTAIN THE NPDES PERMIT AND WILL TRANSFER THE PERMIT TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
3. THE CONTRACTOR SHALL COMPLY WITH ALL REQUIREMENTS IN THE NPDES PERMIT. THE CONTRACTOR SHALL PREPARE AND MAINTAIN AN EROSION CONTROL LOG BOOK IN ACCORDANCE WITH NPDES PERMIT REQUIREMENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR BMP MAINTENANCE OR REPAIRS THAT RESULT FROM COMPLIANCE WITH THE PERMIT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY COSTS THAT MAY BE REQUIRED FOR COMPLIANCE WITH THE NPDES PERMIT DURING CONSTRUCTION SHALL BE IMPLEMENTED AT THE CONTRACTOR'S EXPENSE.

## TESC LEGEND



## TEMPORARY EROSION/SEDIMENTATION CONTROL

1. A COPY OF THE APPROVED TESC PLAN MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
2. APPROVAL OF THIS TEMPORARY EROSION & SEDIMENTATION CONTROL (TESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STRUCTURES, DRIVEWAYS OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
3. THE IMPLEMENTATION OF THIS TESC PLAN AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADE OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
4. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING CONSTRUCTION, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE CONSTRUCTION.
5. TESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, UNLESS REVISED BY A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD. TESC FACILITIES SHALL BE INSTALLED IN SUCH A MANNER AS TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
6. THE TESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE TESC FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL PUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
7. THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CESOL AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
8. ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
9. THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 24 HOURS FOLLOWING A STORM EVENT THAT PRODUCES RUNOFF FROM THE SITE.
10. WASH PADS MAY BE NECESSARY TO ENSURE PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
11. MULCHING OF ANY TYPE SHALL BE INSTALLED PER THE RATES AND STANDARDS PRESENTED IN VOL. II, TABLE A-1 OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2014 EDITION BY DEPARTMENT OF ECOLOGY.
12. ALL WORK AND MATERIAL SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
13. EROSION & SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THIS PLAN. LOCATION MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE CONTRACTORS CESOL OR ENGINEER OF RECORD.
14. COVER ALL DIRT/TOPSOIL PILES WITH PLASTIC SHEETING (BMP C123) DURING CONSTRUCTION WHEN NOT IN USE.
15. NETS AND/OR EROSION CONTROL BLANKETS (BMP C122) MAY BE USED IN LIEU OF TEMPORARY MULCHING.
16. CONSTRUCTION SCHEDULE- PENDING APPROVAL OF PLANS FROM THE CITY OF FERNDALE.
17. ADDITIONAL BMPs MAY BE USED OR REQUIRED AS CONDITIONS WARRANT. BMPs SHALL BE INSTALLED PER RECOMMENDATIONS IN THE DOE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, CURRENT EDITION.



**AS-BUILT DRAWING**

**AS-BUILT NOTE:**  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR

SHEET NOTES

**APPROVED**  
10/01/2025

BY: Th. Hargrove 10/11/10  
CITY OF FERNDALE  
PUBLIC WORKS DEPARTMENT

## REVISIONS

[illegible]

PROFESSIONAL SEAL



CONSULTANT LOGO:



2500 Elm Street, Suite 1  
Bellingham, WA 98225

t. 360.650.1408  
f. 360.650.1401

**F R E E L A N D**  
**& A S S O C I A T E S**

**AMERCO.**  
REAL ESTATE COMPANY

CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

SITE ADDRESS:

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SHEET CONTENTS :

# TEMPORARY EROSION AND SEDIMENT CONTROL PLAN

21095

DRAWN :	GJK	C3
CHECKED:	JPS	
DATE:	9-19-2025	

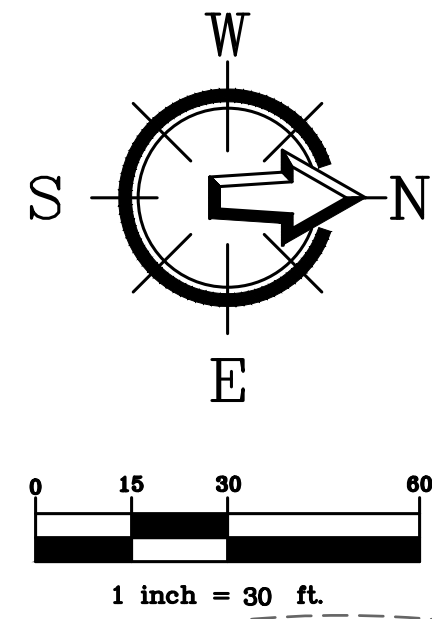












REFER TO SHEET C9 FOR  
PROPOSED BARRETT ROAD  
FRONTAGE IMPROVEMENTS

**BARRETT ROAD**

FLOWS FROM ASPHALT SURFACE SOUTH  
 OF BUILDING B TO SHEET PILE WALL  
 AND DISCHARGE INTO WETLAND B.  
 CAVES TO BE INSTALLED DOWNGRADE  
 OF ASPHALT TO PROVIDE TREATMENT.

SDCB #1  
TYPE 1 W/  
STD. FRAME &  
HERRINGBONE GRATE  
RIM: 34.33 (AB)  
8" INV (N): 31.73 (AB)

SDCB #2  
TYPE 1 W/  
STD. FRAME &  
HERRINGBONE GRATE  
RIM: 34.33 (AB)  
8" INV (S): 31.39 (A)  
8" INV (N): 31.39 (A)

SDCB #3  
TYPE 2 - 48" V  
RING & SOLID C  
RIM: 35.95 (AB)  
8" INV (E): 30.1  
8" INV (S): 31.0  
6" INV (SE): 32

220.3'

CONNECT TRENCH  
DRAIN TO CROP #

SDCB #11  
48" W/ RING &  
ROLLED CURB  
INGBONE GRATE  
RIM: 36.56 (AB)  
GE): 30.46 (AB)  
E): 30.53 (AB)

ALL EG GRADES SHOWN PER EXISTING SURFACE PROVIDED BY SURVEYOR. INTENT IS FOR PROPOSED ASPHALT TO CONNECT TO EXISTING GRADES AT BUILDING AND EXISTING PAVEMENT. CONTRACTOR TO VERIFY GRADES AND CONTACT ENGINEER OF RECORD WITH ANY DISCREPANCIES. (TYPICAL)

SDCO #1  
RIM: 38.63 (AB) ←  
SDCB #10  
TYPE 2 - 48" W/  
RING & SOLID COVER  
RIM: 37.27 (AB)

SDCB #15  
TYPE 1 W/ STD. FRAM  
& SOLID GRATE  
RIM: 38.07 (AB)  
4" INV (W): 36.27 (AB)  
4" INV (E): 36.21 (AB)  
6" INV (S): 36.18 (AB)

83 LF 6"  $\phi$  SDR35  
PVC SD  $\odot$  0.62%  
(AB)

6" INV (S): 31.90 (AB)  
6" INV (W): 31.15 (AB)

SDCO #2  
RIM: 37.96  
(AB)

## S-BUILT DR

**CALL BEFORE YOU DIE**  
**1-800-424-5555**

**SHEET NOTES:**

**APPROVED**  
10/01/2025

BY: City Manager For 1ccv in 2022  
CITY OF FERNDALE  
PUBLIC WORKS DEPARTMENT

## REVISIONS

[illegible]

PROFESSIONAL SEAL



CONSULTANT LOGO:



2500 Elm Street, Suite 1  
Bellingham, WA 98225

t: 360.650.1  
f: 360.650.1

**F R E E L A N**  
& A S S O C I A T E

**AMERCO**  
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CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

SITE ADDRESS:

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SHEET CONTENTS :

## GRADING AND DRAINAGE PLAN

21095

DRAWN :	GJK	
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CHECKED:	IPS	C6
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ORDERED.	NO	CO

DATE:	9-19-2025	
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21095AB2.DWG

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00762.006 10/01/25 RH

**AS-BUILT DRAWING**

**AS-BUILT NOTE:**  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR



NOTE: EXISTING UTILITIES ADJACENT TO BARRETT ROAD WERE NOT LOCATED IN THE FIELD SURVEY. CONTRACTOR TO POT-HOLE PRIOR TO CONSTRUCTION TO LOCATE ALL UTILITIES. CONTACT ENGINEER OF RECORD WITH ANY DISCREPANCIES PRIOR TO CONSTRUCTION TO ENSURE PROPOSED DESIGN DOES NOT CONFLICT WITH EXISTING UTILITIES. (TYPICAL)

CONTRACTOR TO ENSURE ADEQUATE SEPARATION IS PROVIDED FOR BACTERIAL AND PRESSURE TESTING. PUBLIC WORKS APPROVAL OF SEPARATION IS REQUIRED.

25 LF 12" DI WATER MAIN

24" WIDE WATER MAIN EXISTING

253 LF 12" DI WATER MAIN

17 LF 6" DI WATER MAIN

8 LF 12" DI WATER MAIN

338 LF 1" HDPE WATER SERVICE

239 LF 12" DI WATER MAIN

PIPE CROSSING  
WA INV: 31.12  
SD CROWN: 28.02

PIPE CROSSING  
WA INV: 30.83  
SD CROWN: 30.25

PIPE CROSSING  
WA INV: 31.58  
SD CROWN: 30.66

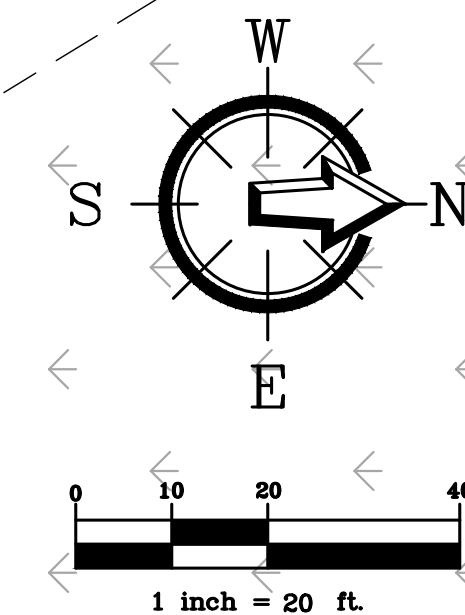
NOTE: WATER CROSSING WITH LESS THAN 18" OF VERTICAL SEPARATION PRESENT. CONTRACTOR TO CENTER SEGMENTS OF WATER LINE OVER STORM PIPE TO MAXIMIZE DISTANCE FROM PIPE JOINTS. BACKFILL WITH CONTROLLED DENSITY FILL (CDF) 10 FEET EACH SIDE OF CROSSING.

NOTE: WATER CROSSING WITH LESS THAN 18" OF VERTICAL SEPARATION PRESENT. CONTRACTOR TO CENTER SEGMENTS OF WATER LINE OVER STORM PIPE TO MAXIMIZE DISTANCE FROM PIPE JOINTS. BACKFILL WITH CONTROLLED DENSITY FILL (CDF) 10 FEET EACH SIDE OF CROSSING.

STA: 50+83.42, 5.00' L  
INSTALL:  
(1) 12" 45° BEND [MxMJ]  
(1) THRUST BLOCK

STA: 50+83.42, 5.00' L  
INSTALL:  
(1) 12"x12" HOT TAPPING SLEEVE [FL]  
(1) 12" VALVE ASSEMBLY [FLxMJ]  
NOTE: WATERMAIN TAP AND CONNECTION TO BE COMPLETED UNDER CITY OBSERVATION.

EXISTING WATER MAIN LOCATION NOT INCLUDED IN PROJECT SURVEY. WATER MAIN SHOWN IS LOCATED APPROXIMATELY 10 FEET OFF PROPERTY LINE PER CITY OF FERNDALE GIS. CONTRACTOR TO LOCATE WATER MAIN IN FIELD AND CONTACT PROJECT ENGINEER OF RECORD WITH ANY DISCREPANCIES.

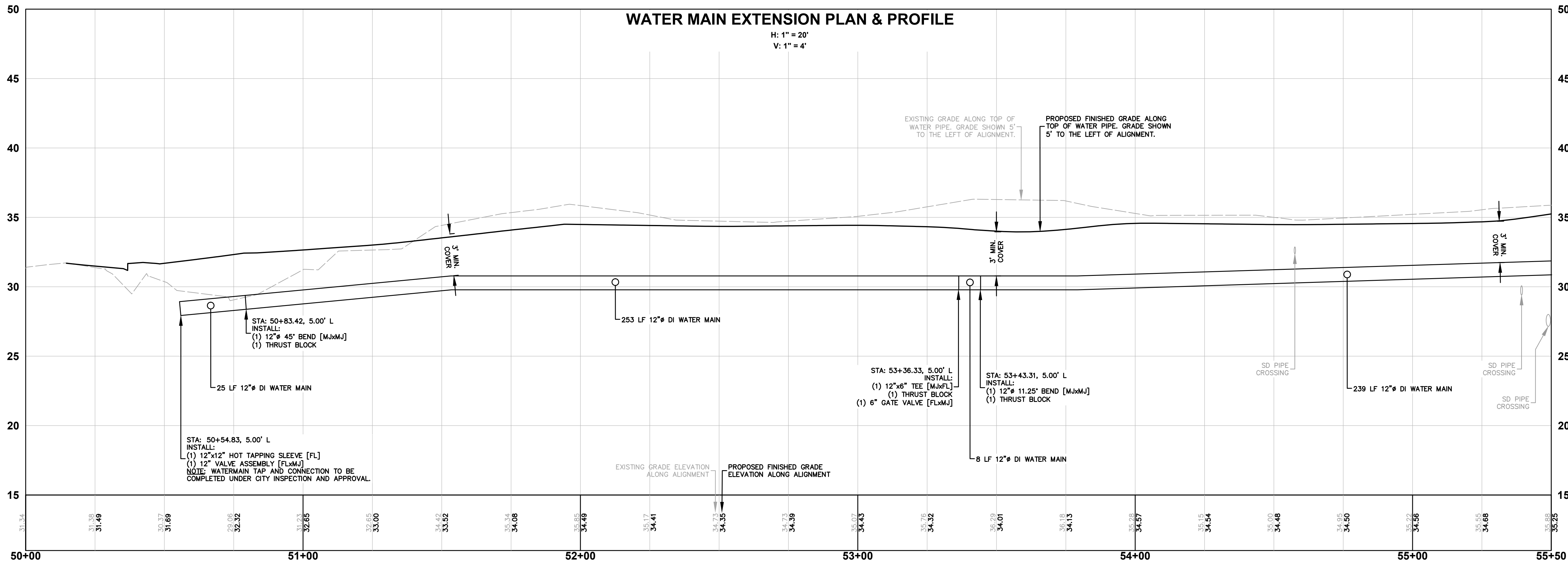


### AS-BUILT DRAWING

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR

### WATER MAIN EXTENSION PLAN & PROFILE

H: 1" = 20'  
V: 1" = 4'



CALL BEFORE YOU DIG  
1-800-424-5555

APPROVED  
10/01/2025

BY: *[Signature]*  
CITY OF FERNDALE  
PUBLIC WORKS DEPARTMENT

REVISIONS:

NO.	DATE	INITIALS	NOTES

PROFESSIONAL SEAL:



CONSULTANT LOGO:



AMERCO  
REAL ESTATE COMPANY

CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE, PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

SITE ADDRESS:

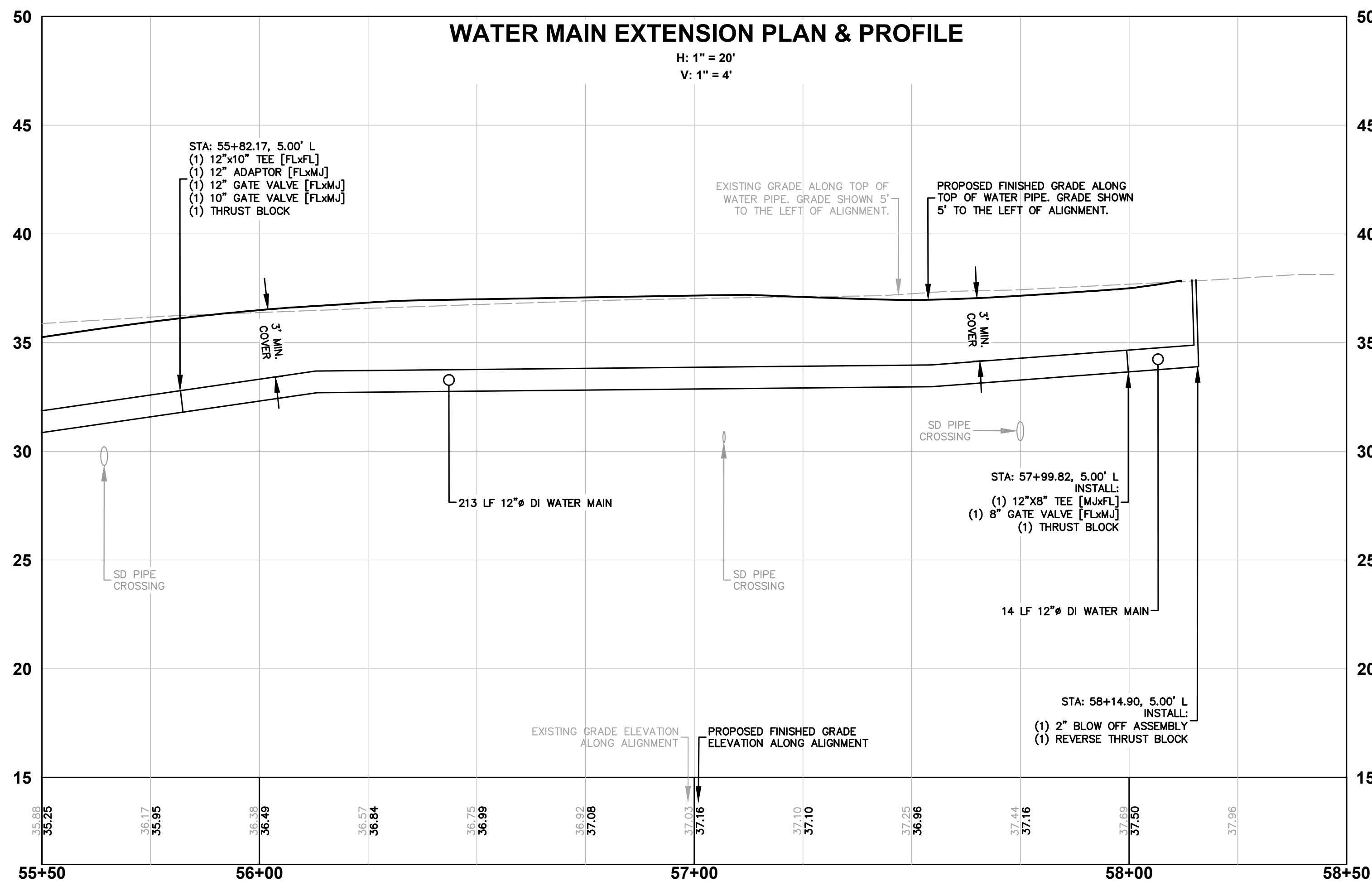
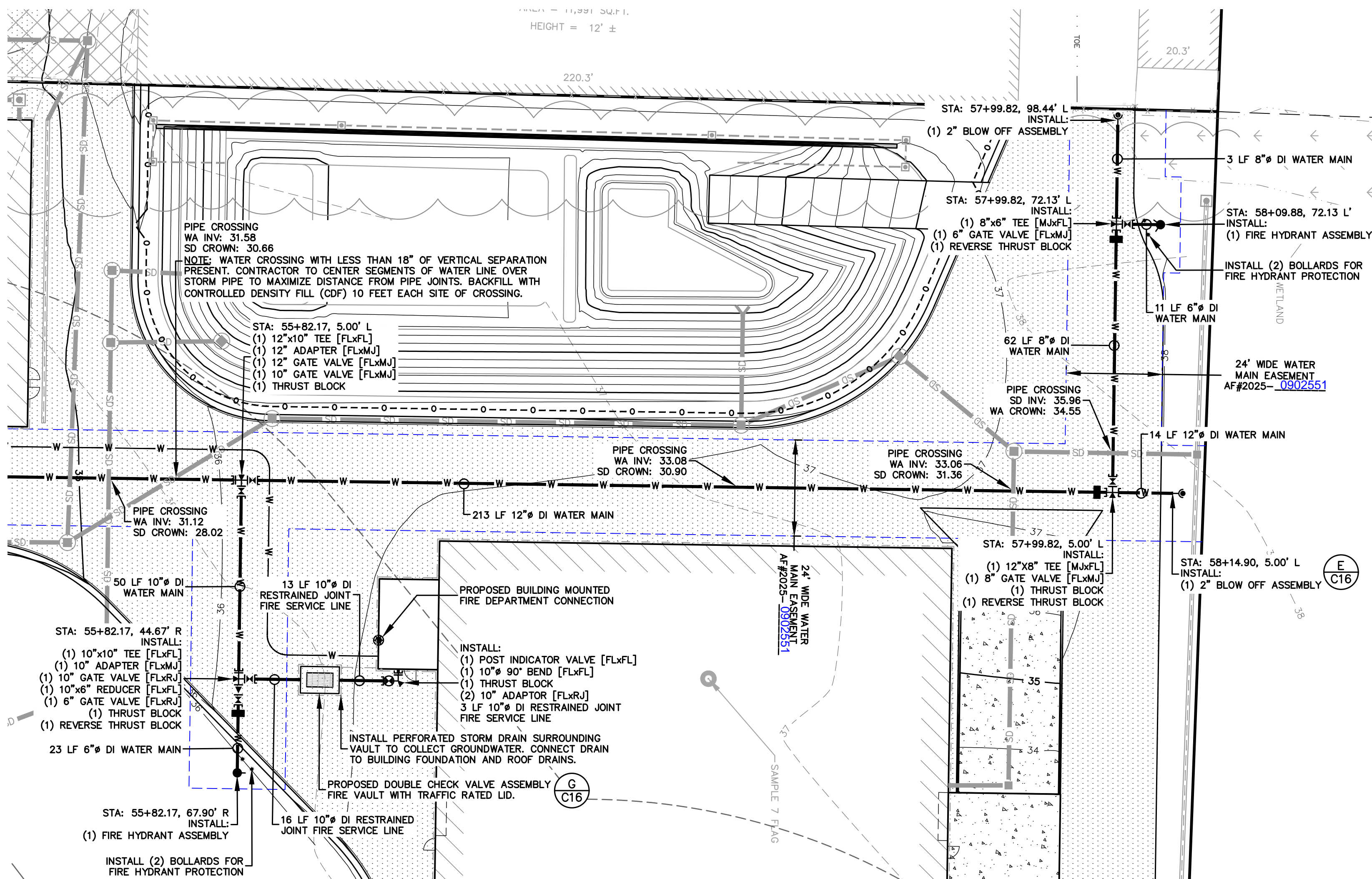
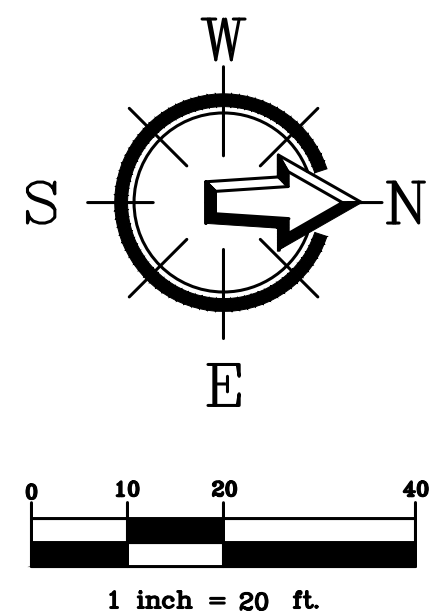
UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SHEET CONTENTS:  
WATER MAIN  
EXTENSION PLAN  
& PROFILE  
(STA: 50+00 TO 55+50)

21095

DRAWN: GJK  
CHECKED: JPS  
DATE: 9-19-2025  
C7





### FIRE SERVICE INSTALLATION NOTES

1. INSTALLATION WORK SHALL BE PERFORMED BY FULLY EXPERIENCED AND RESPONSIBLE PERSONS. NFPA 24 4.2.1
2. THE AUTHORITY HAVING JURISDICTION (AHJ) SHALL ALWAYS BE CONSULTED BEFORE THE INSTALLATION OR REMODELING OF PRIVATE FIRE SERVICE MAINS. NFPA 24 4.2.2
3. PIPING MANUFACTURED IN ACCORDANCE WITH TABLE NFPA 24 10.1.1.1 SHALL BE PERMITTED TO BE USED.
4. PIPING SPECIFICALLY LISTED FOR USE IN PRIVATE FIRE SERVICE MAINS SHALL BE PERMITTED TO BE USED. NFPA 24 10.1.1.2
5. THE DEPTH OF COVER FOR PRIVATE FIRE SERVICE MAINS AND THEIR APPURTENANCES TO PROTECT AGAINST FREEZING SHALL BE A MINIMUM OF 4 FEET (48 INCHES). NFPA 24 10.4.2.1 AND AHJ REQUIREMENT.
6. PRIVATE FIRE SERVICE MAINS INSTALLED UNDER RAILROAD TRACKS SHALL BE BURIED AT A MINIMUM DEPTH OF 4 FEET (48 INCHES). NFPA 24 10.4.2.4
7. ALL PIPING SHALL BE INSTALLED A MINIMUM OF 12 INCHES BELOW THE BOTTOM OF BUILDING FOUNDATION OR FOOTERS. NFPA 10.4.3.1.2
8. AFTER INSTALLATION, RODS, NUTS, BOLTS, WASHERS, CLAMPS, AND OTHER RESTRAINING DEVICES SHALL BE CLEANED AND THOROUGHLY COATED WITH A BITUMINOUS OR OTHER ACCEPTABLE CORROSION-RETARDING MATERIAL. NFPA 24 10.6.2.5
9. ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT GAUGE PRESSURE OF 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE AT GAUGE PRESSURE OF + OR - 5 PSI FOR A MINIMUM OF 2 HOURS. NFPA 24 10.10.2.2.1
10. ACCEPTABLE TEST RESULTS SHALL BE DETERMINED BY INDICATION OF EITHER A PRESSURE LOSS LESS THAN GAUGE PRESSURE OF 5 PSI OR BY NO VISUAL LEAKAGE. NFPA 24 10.10.2.2.2
11. WHERE USING PIPING LISTED FOR PRIVATE FIRE SERVICE MAINS, THE MANUFACTURERS INSTALLATION INSTRUCTION FOR BACKFILL AS WELL AS AHJ REQUIREMENTS FOR BACKFILL SHALL BE FOLLOWED. NFPA 24 10.8.6
12. PER AHJ REQUIREMENTS THE FDC SHALL BE COLORED APPROPRIATELY FOR USE:  
RUSTOLEUM RED FOR STAND ALONE SPRINKLER SYSTEM  
RUSTOLEUM GREEN FOR STAND ALONE STANDPIPE SYSTEM  
RUSTOLEUM YELLOW FOR COMBINATION STANDPIPE SPRINKLER SYSTEMS
13. PER AHJ REQUIREMENTS REMOTE FDC SHALL BE SIGNED OR ADDRESSED APPROPRIATELY TO SHOW WHAT BUILDING OR PORTION OF BUILDING IT IS CONNECTED TO.
14. PER AHJ REQUIREMENTS IF THE SPRINKLER SYSTEM RISER ROOM IS ACCESSIBLE THROUGH AN EXTERIOR DOOR, A PIV IS NOT NEEDED; HOWEVER, WE STILL REQUIRE AN ISOLATION VALVE AT THE PROPERTY LINE OR EDGE OF EASEMENT.
15. ALL ABOVE REQUIREMENTS SHALL BE INSPECTED AND APPROVED BY THE AHJ BEFORE PERMIT CAN BE FINALED.
16. INSTALLER MUST BE A LEVEL "U" CERTIFICATE HOLDER.

### FIRE SERVICE SIZING NOTE

CONTRACTOR SHALL VERIFY FIRE SERVICE SUPPLY LINE SIZE WITH SPRINKLER CONTRACTOR PRIOR TO INSTALLATION.

CALL BEFORE YOU DIG  
1-800-424-5555

SHEET NOTES:

**APPROVED**  
10/01/2025  
BY: *[Signature]*  
CITY OF FERNDALE  
PUBLIC WORKS DEPARTMENT

REVISIONS:

NO.	DATE	INITIALS	NOTES

PROFESSIONAL SEAL:



CONSULTANT LOGO:



**AMERCO**  
REAL ESTATE COMPANY

CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

SITE ADDRESS:

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SHEET CONTENTS:  
WATER MAIN  
EXTENSION PLAN  
& PROFILE  
(STA: 55+50 TO 58+50)

21095

DRAWN:	GJK	C8
CHECKED:	JPS	
DATE:	9-19-2025	

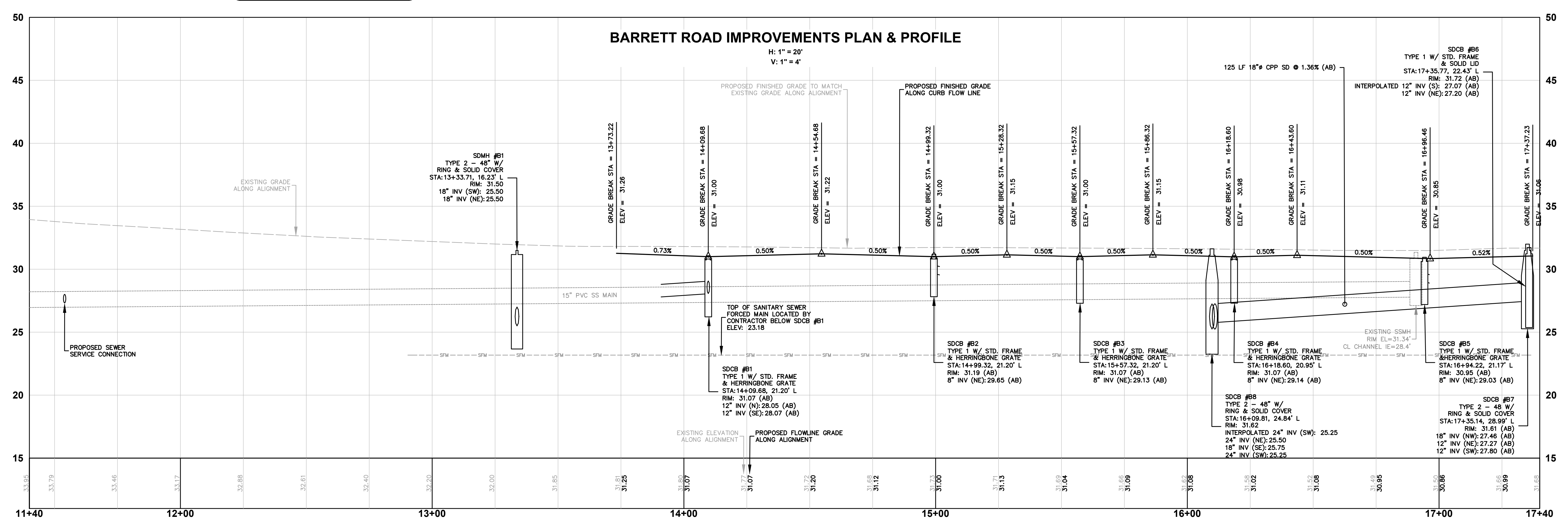
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**AS-BUILT DRAWING**

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR





2011	2010	2009	2008	2007	2006	2005	2004	2003	2002	2001	2000	1999	1998	1997	1996	1995	1994	1993	1992	1991	1990	1989	1988	1987	1986	1985	1984	1983	1982	1981	1980	1979	1978	1977	1976	1975	1974	1973	1972	1971	1970	1969	1968	1967	1966	1965	1964	1963	1962	1961	1960	1959	1958	1957	1956	1955	1954	1953	1952	1951	1950	1949	1948	1947	1946	1945	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935	1934	1933	1932	1931	1930	1929	1928	1927	1926	1925	1924	1923	1922	1921	1920	1919	1918	1917	1916	1915	1914	1913	1912	1911	1910	1909	1908	1907	1906	1905	1904	1903	1902	1901	1900	1899	1898	1897	1896	1895	1894	1893	1892	1891	1890	1889	1888	1887	1886	1885	1884	1883	1882	1881	1880	1879	1878	1877	1876	1875	1874	1873	1872	1871	1870	1869	1868	1867	1866	1865	1864	1863	1862	1861	1860	1859	1858	1857	1856	1855	1854	1853	1852	1851	1850	1849	1848	1847	1846	1845	1844	1843	1842	1841	1840	1839	1838	1837	1836	1835	1834	1833	1832	1831	1830	1829	1828	1827	1826	1825	1824	1823	1822	1821	1820	1819	1818	1817	1816	1815	1814	1813	1812	1811	1810	1809	1808	1807	1806	1805	1804	1803	1802	1801	1800	1799	1798	1797	1796	1795	1794	1793	1792	1791	1790	1789	1788	1787	1786	1785	1784	1783	1782	1781	1780	1779	1778	1777	1776	1775	1774	1773	1772	1771	1770	1769	1768	1767	1766	1765	1764	1763	1762	1761	1760	1759	1758	1757	1756	1755	1754	1753	1752	1751	1750	1749	1748	1747	1746	1745	1744	1743	1742	1741	1740	1739	1738	1737	1736	1735	1734	1733	1732	1731	1730	1729	1728	1727	1726	1725	1724	1723	1722	1721	1720	1719	1718	1717	1716	1715	1714	1713	1712	1711	1710	1709	1708	1707	1706	1705	1704	1703	1702	1701	1700	1699	1698	1697	1696	1695	1694	1693	1692	1691	1690	1689	1688	1687	1686	1685	1684	1683	1682	1681	1680	1679	1678	1677	1676	1675	1674	1673	1672	1671	1670	1669	1668	1667	1666	1665	1664	1663	1662	1661	1660	1659	1658	1657	1656	1655	1654	1653	1652	1651	1650	1649	1648	1647	1646	1645	1644	1643	1642	1641	1640	1639	1638	1637	1636	1635	1634	1633	1632	1631	1630	1629	1628	1627	1626	1625	1624	1623	1622	1621	1620	1619	1618	1617	1616	1615	1614	1613	1612	1611	1610	1609	1608	1607	1606	1605	1604	1603</
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1/2" HEX BOLTS

1/2" RAISED SQUARES, 1/2" APART, 1/2" HIGH

12" WIDE, 1/8" HIGH RAISED BORDER

PLAN

2' SQUARE CONCRETE BLOCK TO ENCASE CLEAN-OUT. IF CLEAN-OUT IS IN ASPHALT, THE BLOCK IS TO BE LEFT 2" LOW TO ALLOW FOR AN ASPHALT TOPPING OF LIKE MIXTURE AS THE SURROUNDING AREA. IN ALL CASES THE CONCRETE BLOCK WILL BE 1-FOOT THICK AND FINAL ELEVATION SHALL BE FLUSH WITH THE SURROUNDING SURFACE.

NOT NECESSARY TO BOND COVER PIPE TO RING AT THIS POINT. BUTT TO RING AND ENCASE IN CONCRETE BLOCK.

10" 9" 8 1/2" 12" 8" 4 3/4" 12" 4" 6" SPACING

FIBER JOINT PACKING

45° BEND

PLACE PIPE ON APPROVED BEDDING MATERIAL OR UNDISTURBED SOIL PER CITY STANDARD SS-1.

PLUG TO BE SEALED IN SAME MANNER AS MAIN SEWER JOINTS.

SECTION (A) CAST IRON RING AND COVER

APPROVED

CITY OF FARGO

Public Works Director

8/11/17

Date



AUGUST 4, 2017

SANITARY SEWER 8" CLEAN OUT

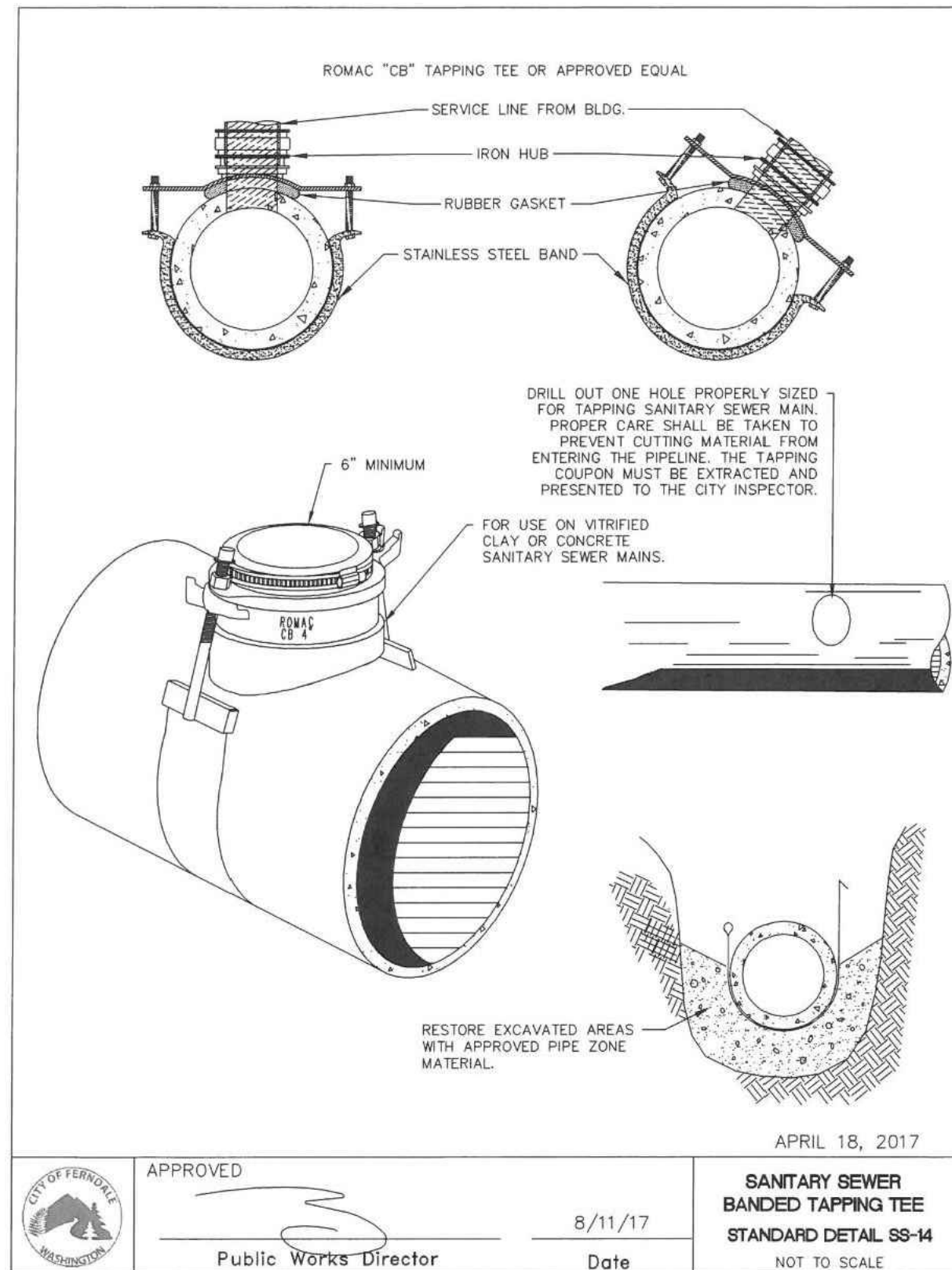
STANDARD DETAIL SS-5

NOT TO SCALE

## **E PRIVATE SEWER & WATER SERVICE SEPARATION**

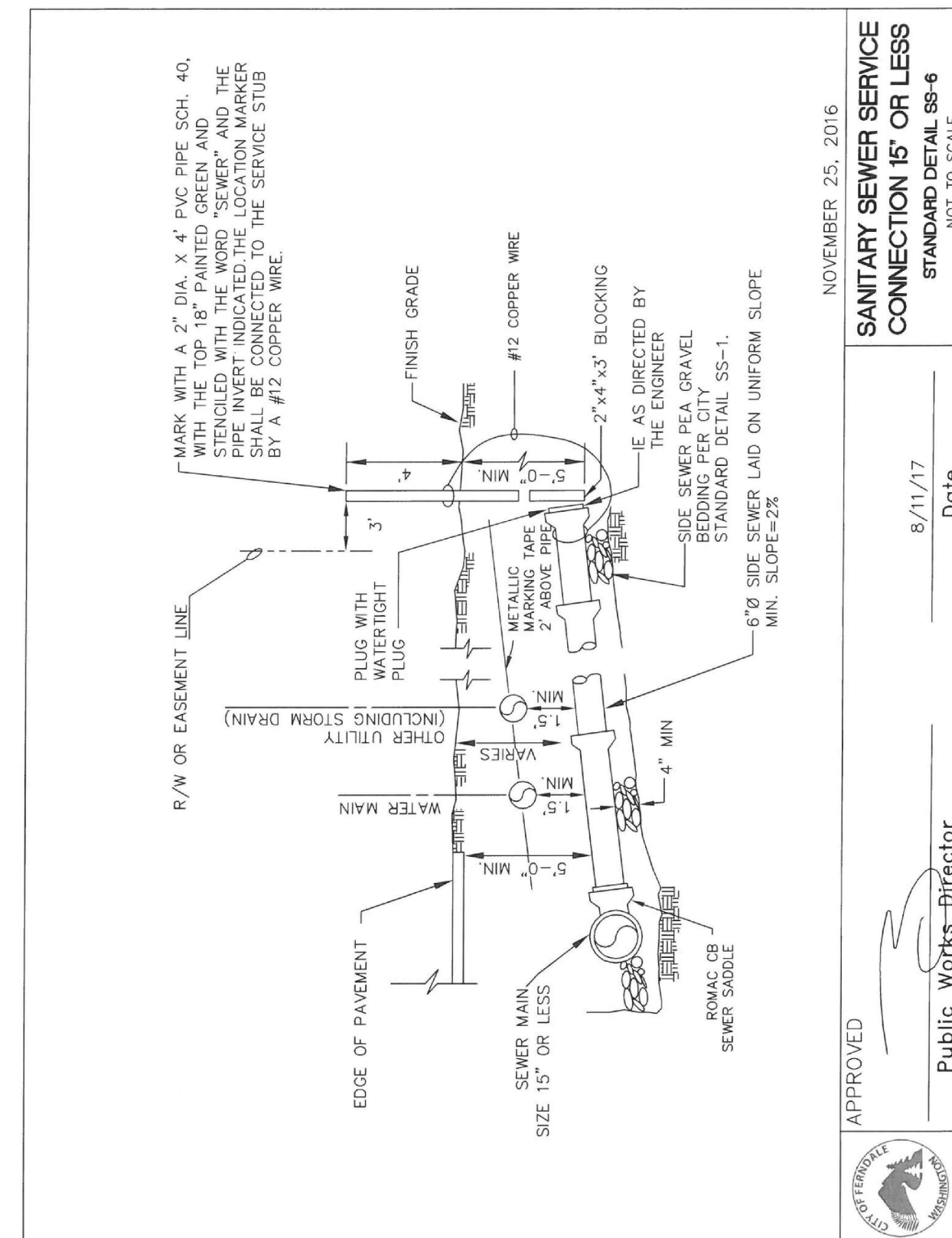
	APPROVED	NOVEMBER 23, 2016
	 _____ Public Works Director	8/11/17 _____ Date

## **F ROADWAY RESTORATION REPAIR**

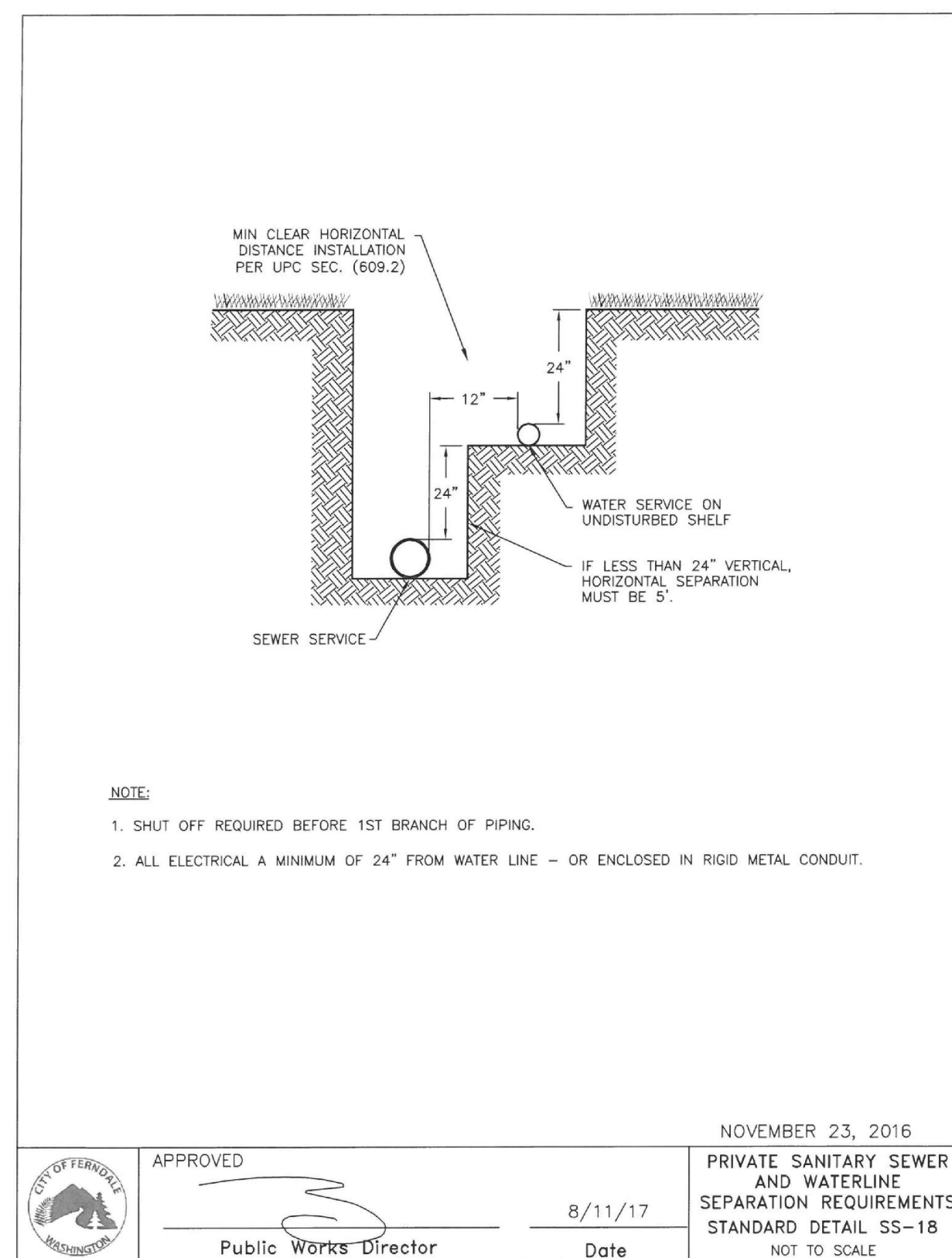


# AS-BUILT DRAWING

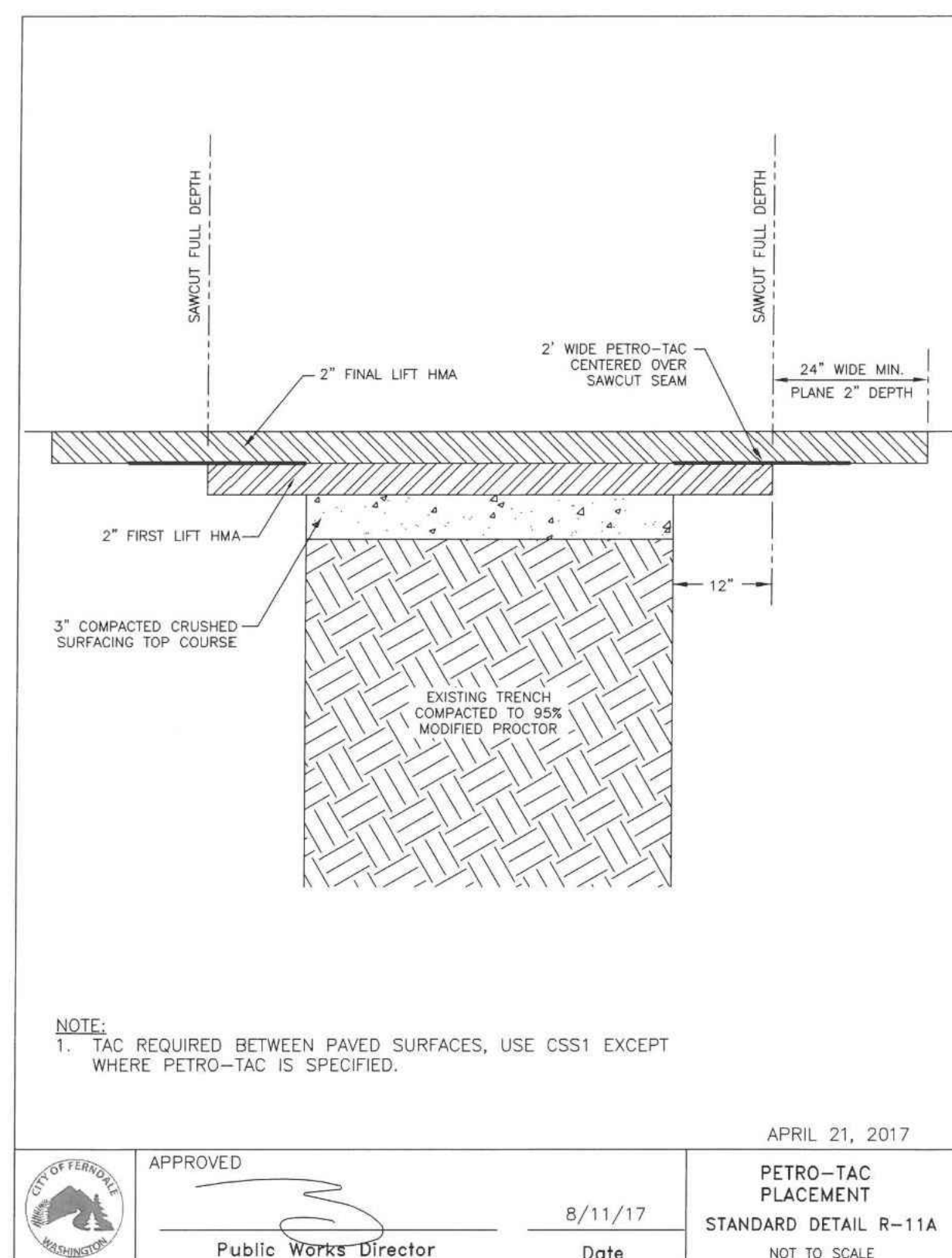
AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR



**(D) SEWER SERVICE CONNECTION**



## **E PRIVATE SEWER & WATER SERVICE SEPARATION**



## **F ROADWAY RESTORATION REPAIR**

[illegible]

2500 Elm Street, Suite 1  
Bellingham, WA 98225

t. 360.650.1408  
f. 360.650.1401

**FREELAND**  
& ASSOCIATES

**AMERCO**  
REAL ESTATE COMPANY

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SEWER DETAILS

21095

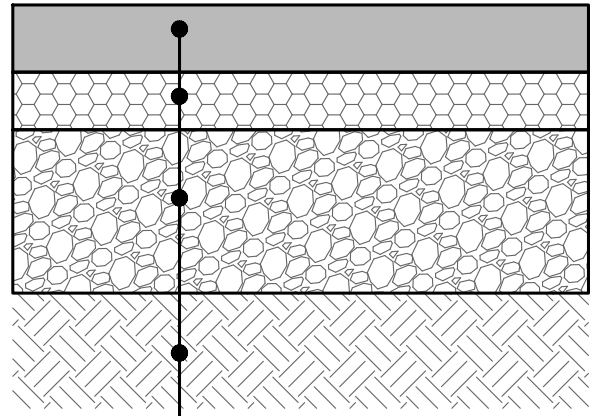
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CHECKED:	JPS	
DATE:	9-19-2025	

21095A82.DWG

00762.010 10/01/25 RH



NOTES:  
1. ALL DEPTHS REPRESENT  
COMPACTED THICKNESSES.



3" HOT MIX ASPHALT (HMA),  
CLASS 2, PG58H-22

3" CRUSHED SURFACING TOP  
COURSE PER WSDOT 9-03.9(3)

12" GRAVEL BASE  
COMPACTED TO 95% MAX  
DENSITY, MODIFIED PROCTOR

EXISTING SUBGRADE OR  
STRUCTURAL FILL COMPACTED  
TO 95% MAX DENSITY

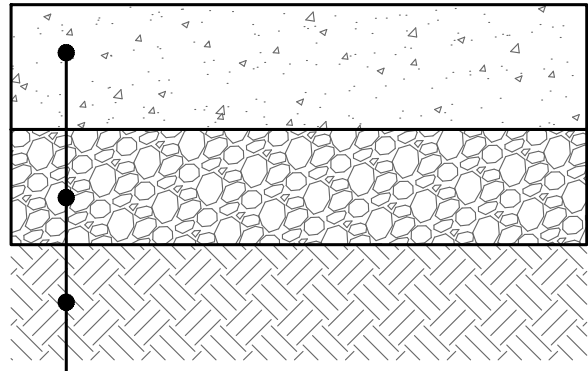
### AS-BUILT DRAWING

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR

## A ASPHALT PAVEMENT

### NOTES

1. ALL DEPTHS REPRESENT COMPACTED DEPTHS.
2. REMOVE ALL TOPSOIL AND UNSUITABLE NATIVE SOIL FROM THE ROAD AND SLOPE PRISM.
3. IN FILL SECTIONS EXTEND GRAVEL BASE TO UNYIELDING NATIVE SUBGRADE. PLACE GRAVEL BASE IN 12" MAX LIFTS AND COMPACT LIFT TO 95% MAX. DENSITY.
4. CONTROL JOINTS SHALL BE 1/4 DEPTH OF SLAB. ALL CONSTRUCTION JOINT SHALL BE DOWELED.

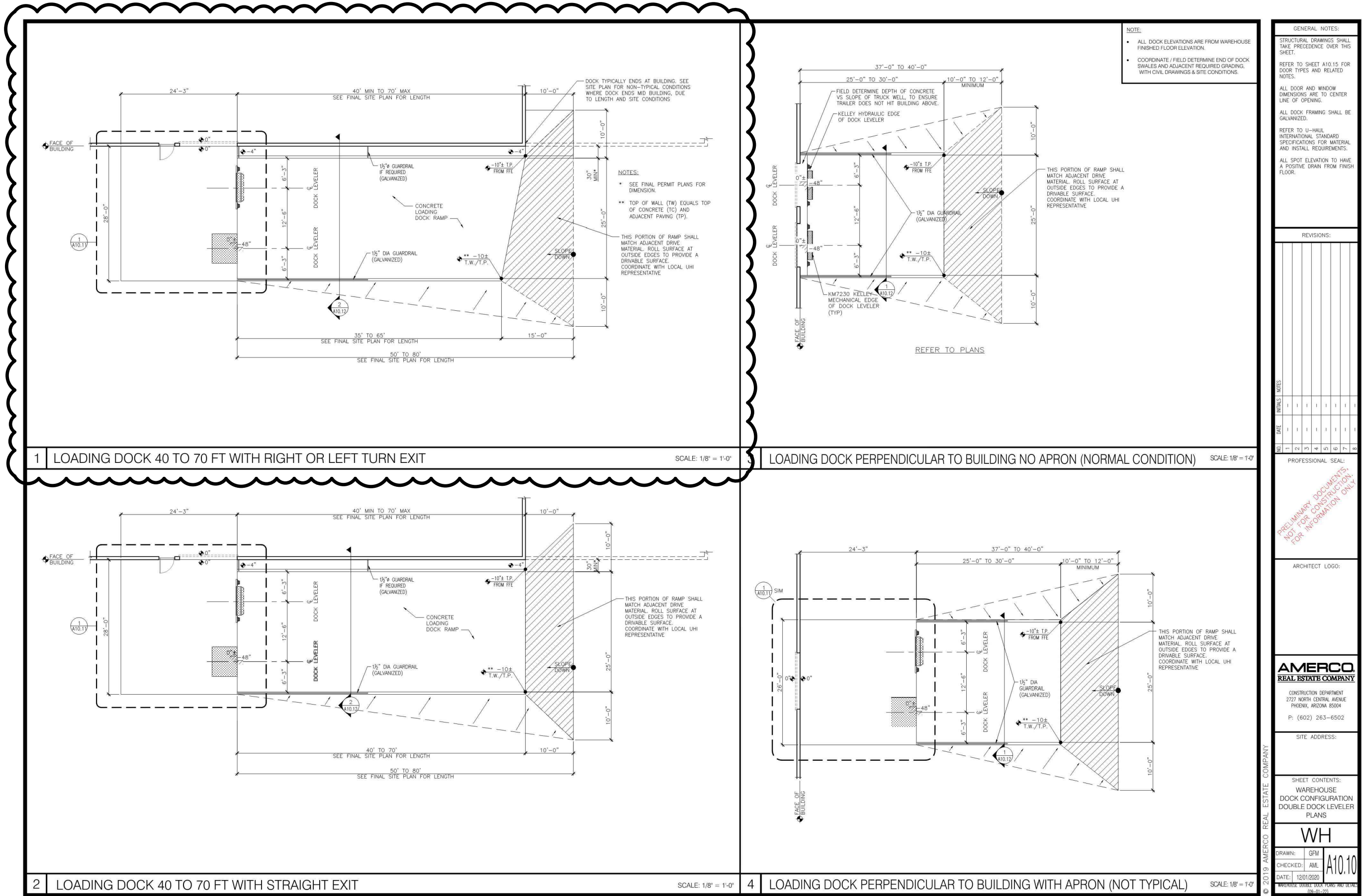


6" PORTLAND CEMENT CONCRETE WITH  
FIBER MESH REINFORCEMENT, 650 PSI  
FLEX STRENGTH @ 14 DAYS, 3,500 PSI  
COMPRESSIVE STRENGTH @ 28 DAYS,  
CONTROL JOINTS (TOOL OR SAWCUT) @  
10' O.C.

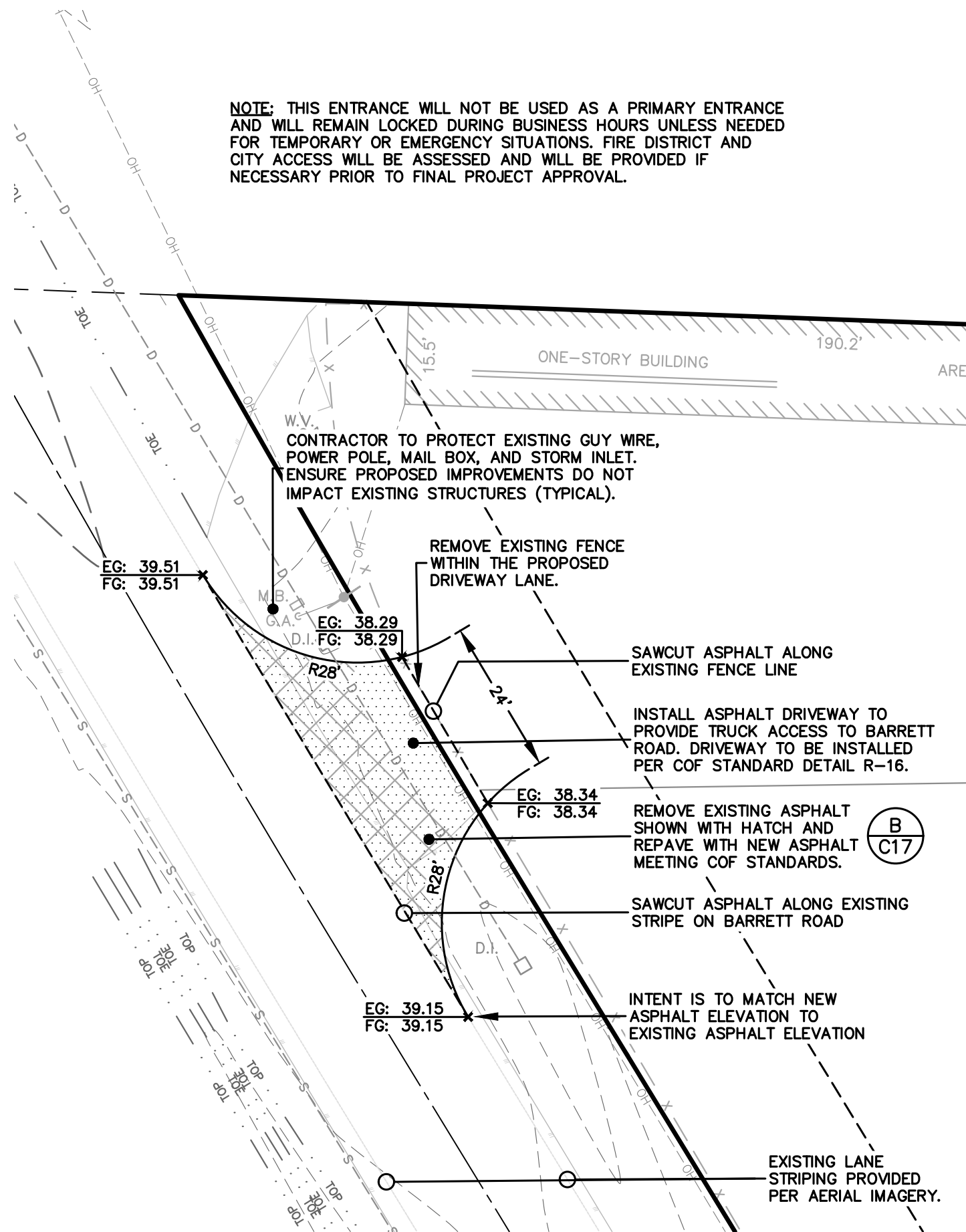
6" GRAVEL BORROW  
COMPACTED TO 95% MAX  
DENSITY, MODIFIED PROCTOR

EXISTING SUBGRADE OR  
STRUCTURAL FILL COMPACTED  
TO 95% MAX DENSITY

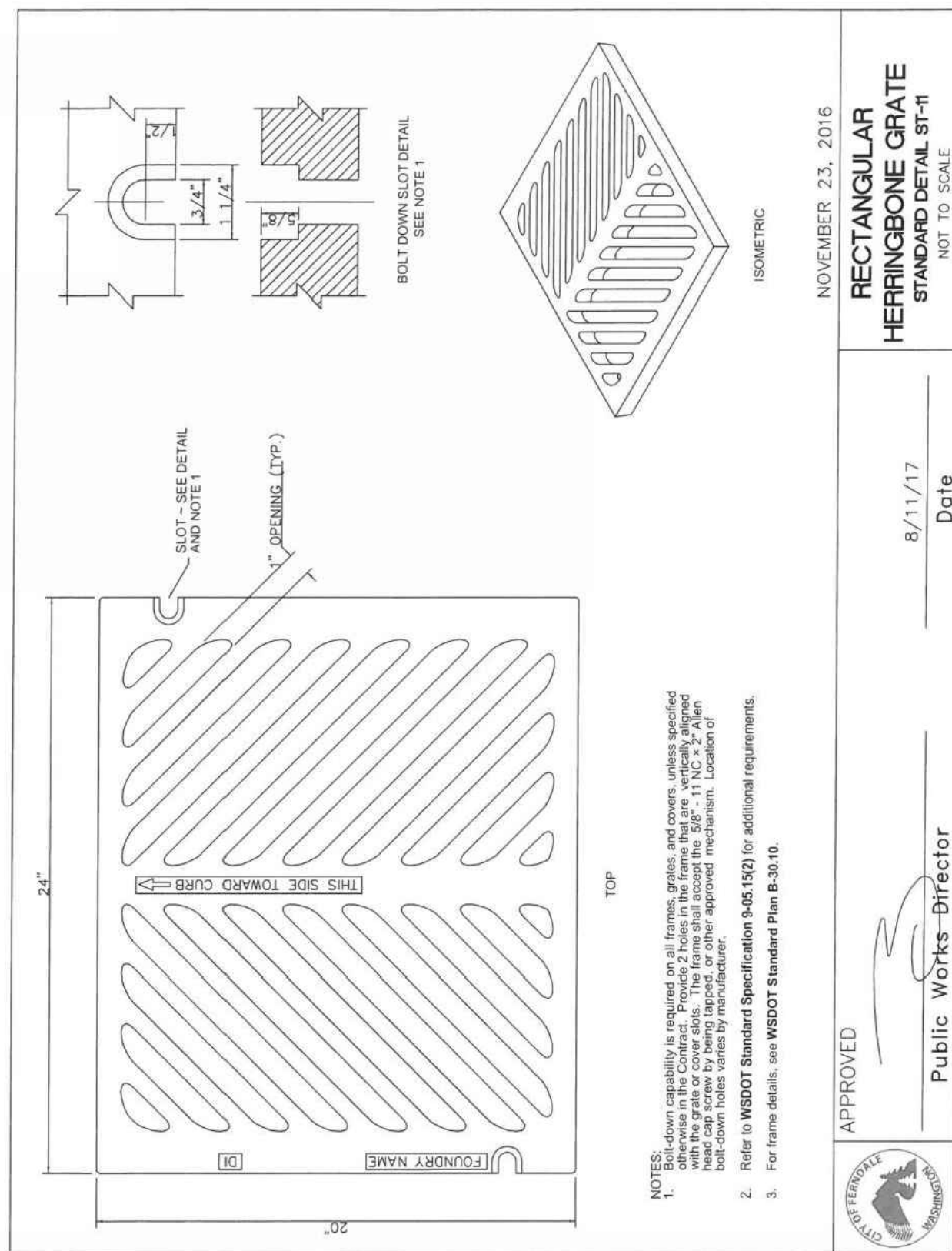
## B CONCRETE PAVEMENT



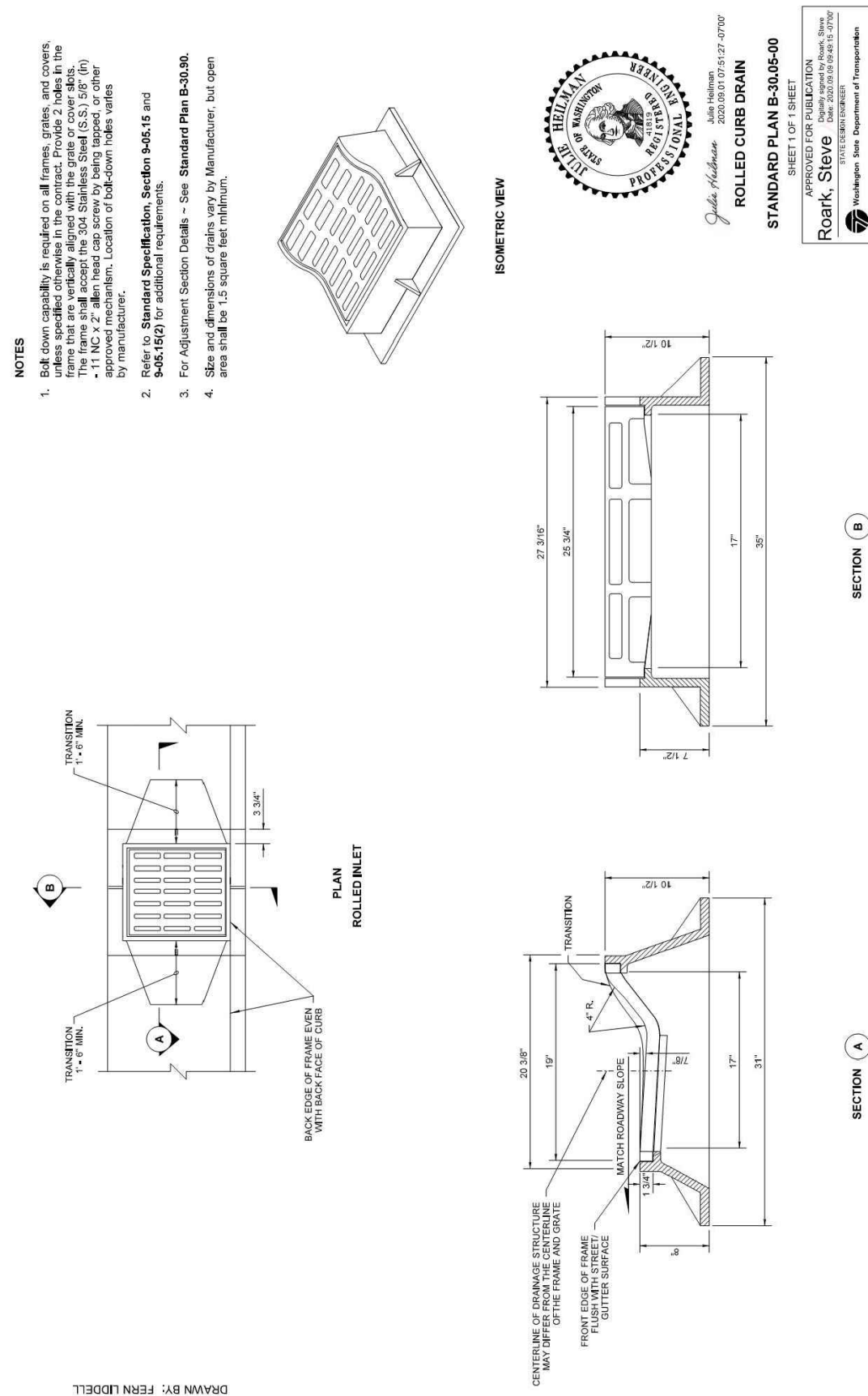
## C UHAUL TRUCK LOADING DOCK STANDARD DETAILS



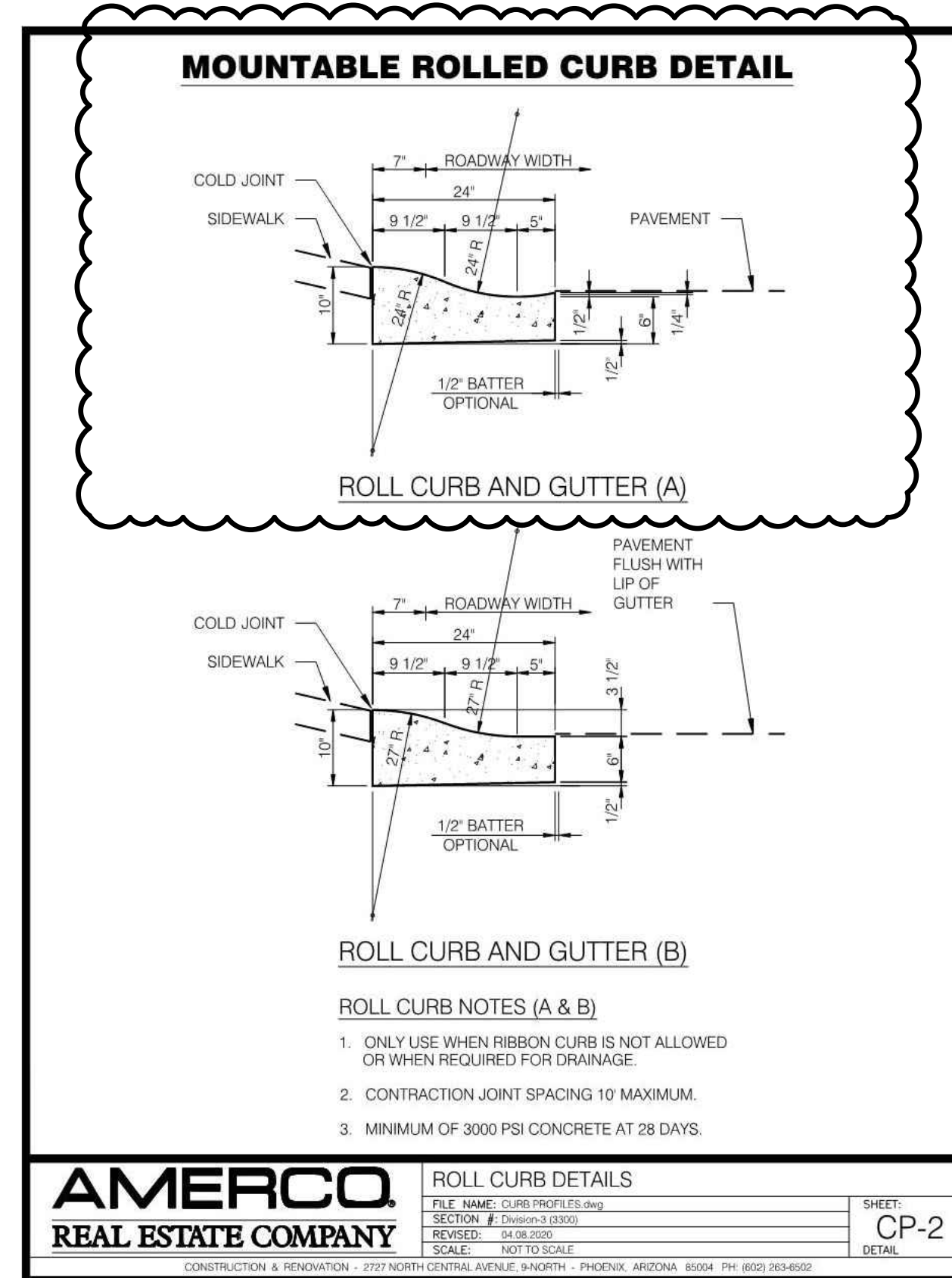
## D ADDITIONAL BARRETT ROAD ACCESS



## E RECTANGULAR HERRINGBONE GRATE



## F ROLLED CURB FRAME AND GRATE



## G ROLLED CURB AND GUTTER

CALL BEFORE YOU DIG  
1-800-424-5555

### SHEET NOTES:

APPROVED  
10/01/2025

BY *Ch. Hampton* for *ICV in*  
CITY OF FERNDALE  
PUBLIC WORKS DEPARTMENT

### REVISIONS:

INITIALS NOTES  
DATE  
NO.

### PROFESSIONAL SEAL:



### CONSULTANT LOGO:



AMERCO  
REAL ESTATE COMPANY

### CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

### SITE ADDRESS:

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

### SHEET CONTENTS:

SITE AND  
STORMWATER  
DETAILS

21095

DRAWN: GJK  
CHECKED: JPS  
DATE: 9-19-2025  
C11

21095AB2.DWG













**BERM EMBANKMENT NOTES**

1. SEE PLAN VIEW AND POND CROSS-SECTIONS FOR BERM LOCATIONS.
2. POND BERM EMBANKMENTS MUST BE CONSTRUCTED ON NATIVE CONSOLIDATED SOIL FREE OF LOOSE SURFACE SOILS, MATERIALS, ROOTS, AND OTHER ORGANIC DEBRIS.
3. THE BERM EMBANKMENT SHALL BE PROTECTED BY EXCAVATING A KEY ELEVATION TO 50% OF THE BERM EMBANKMENT CROSS-SECTIONAL HEIGHT AND WIDTH IN AN AREA SPECIFIED OTHERWISE BY THE GEOTECHNICAL ENGINEER.
4. EMBANKMENT COMPACTION SHALL BE ACCOMPLISHED IN ONE PASSING MANNER. THE COMPACTION DENSITY SHALL BE PERMEABILITY ENGINEERED FILL THAT CAN TOLERATE POST-CONSTRUCTION SETTLEMENTS WITH A MINIMUM OF 1% SETTLING. THE EMBANKMENT SHALL BE COMPACTED TO A STABLE SUBGRADE AND COMPACTED TO A MINIMUM OF 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY, ASTM METHOD D698. SETTLEMENT MOISTURE CONTENT SHALL NOT EXCEED 1% DRY TO 1% OPTIMUM MOISTURE CONTENT. THE REFERENCED COMPACTION STANDARD MAY HAVE TO BE INCREASED TO COMPLY WITH LOCAL REQUIREMENTS.
5. THE BERM EMBANKMENT SHALL BE CONSTRUCTED OF SOILS WITH THE FOLLOWING CHARACTERISTICS PER UNITED STATES DEPARTMENT OF AGRICULTURE (USDA) TEXTURAL CLASSIFICATION: MINIMUM OF 20% SILT AND CLAY, A MAXIMUM OF 60% SAND, A MAXIMUM OF 60% SILT, WITH NOMINAL GRAVEL. COBBLE CONTENT, SOILS OUTSIDE THIS SPECIFIED RANGE CANNOT BE USED, PROVIDED THE DESIGNER SATISFACTORILY ADDRESSES THE ENGINEERING CONCERNS IMPOSED BY THESE SOILS. THE PARAMOUNT CONCERNS WITH SUCH SOILS ARE INTERNAL EROSION, INTERFACIAL EROSION OR PIPING AND TO SURFACE EROSION FROM WAVE ACTION AND RUNOFF ON UPSTREAM AND DOWNSTREAM SLOPES. RESPECTIVELY, THERE SHALL BE NO EVIDENCE OF SOILS IN THE POND AREA ARE NOT EXPECTED TO BE SUITABLE FOR BERM EMBANKMENT MATERIAL.
6. PLACE 12" TO 18" DIAMETER DRAPHRAGMS OR CLAY TRENCH PLUGS ON OULOW PIPES IN BERM EMBANKMENTS.



**POND DESIGN VOLUMES & AREAS**

EXISTING GRADE

TOP OF POND: 35.50

TOP OF POND: 36.00

EMERGENCY OVERFLOW ELEVATION: 33.38 (AB)

TOP OF DETENTION: 32.90 (AB)

BOTTOM OF DETENTION: 27.41 (AB)

12" INLET INV: 27.06 (AB)

12" OUTLET INV: 25.45 (AB)

TOP OF SUBMERGED BERM: 26.25

BOTTOM OF CELL 2: 24.25

BOTTOM OF CELL 1: 23.25

BOTTOM OF CELL 1 SEDIMENT STORAGE: 22.25

SDMH #1 CONTROL STRUCTURE TYPE 2 - 54" W/ RING & SOLID COVER RIM: 35.30 (AB) 12" INV (E): 27.41 (AB) 12" INV (N): 26.89 (AB)

32 LF 12"Ø CPP SD @ 4.46% (AB)

2:1 MAX

2:1 MAX

INSTALL 6" TOPSOIL IN BOTTOM OF SECOND TREATMENT CELL AND SIDE SLOPES. TOPSOIL SHALL MEET THE REQUIREMENTS OUTLINED IN BMP T5.13.

AFTER EXCAVATION, PROJECT GEOTECHNICAL PROFESSIONAL TO EVALUATE EXISTING SOIL SUITABILITY TO PREVENT STORMWATER FROM INFILTRATING. IF IT IS DETERMINED INFILTRATION COULD OCCUR, EITHER AN 18" COMPACTED TILL LINER OR 12" CLAY LINER SHALL BE INSTALLED. SEE SPECIFICATIONS IN THIS DETAIL.

**POND DESIGN VOLUMES & AREAS**  
 DETENTION VOLUME (32.75-27.25): 44,619 CF  
 CELL 1 VOLUME (27.25-23.25): 5,524 CF  
 CELL 1 SURFACE AREA: 2,148 SF  
 CELL 2 SURFACE AREA: 4,051 SF



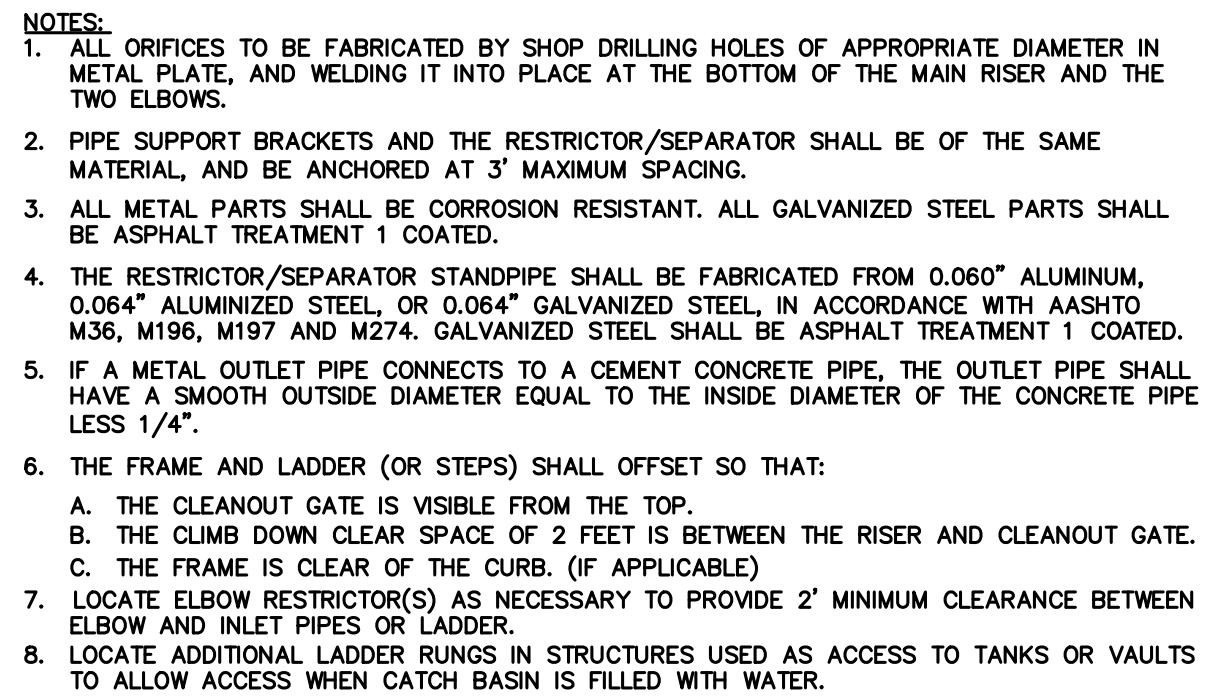
**AS-BUILT DRAWING**

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR

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CHECKED:	JPS	
DATE:	9-19-2025	

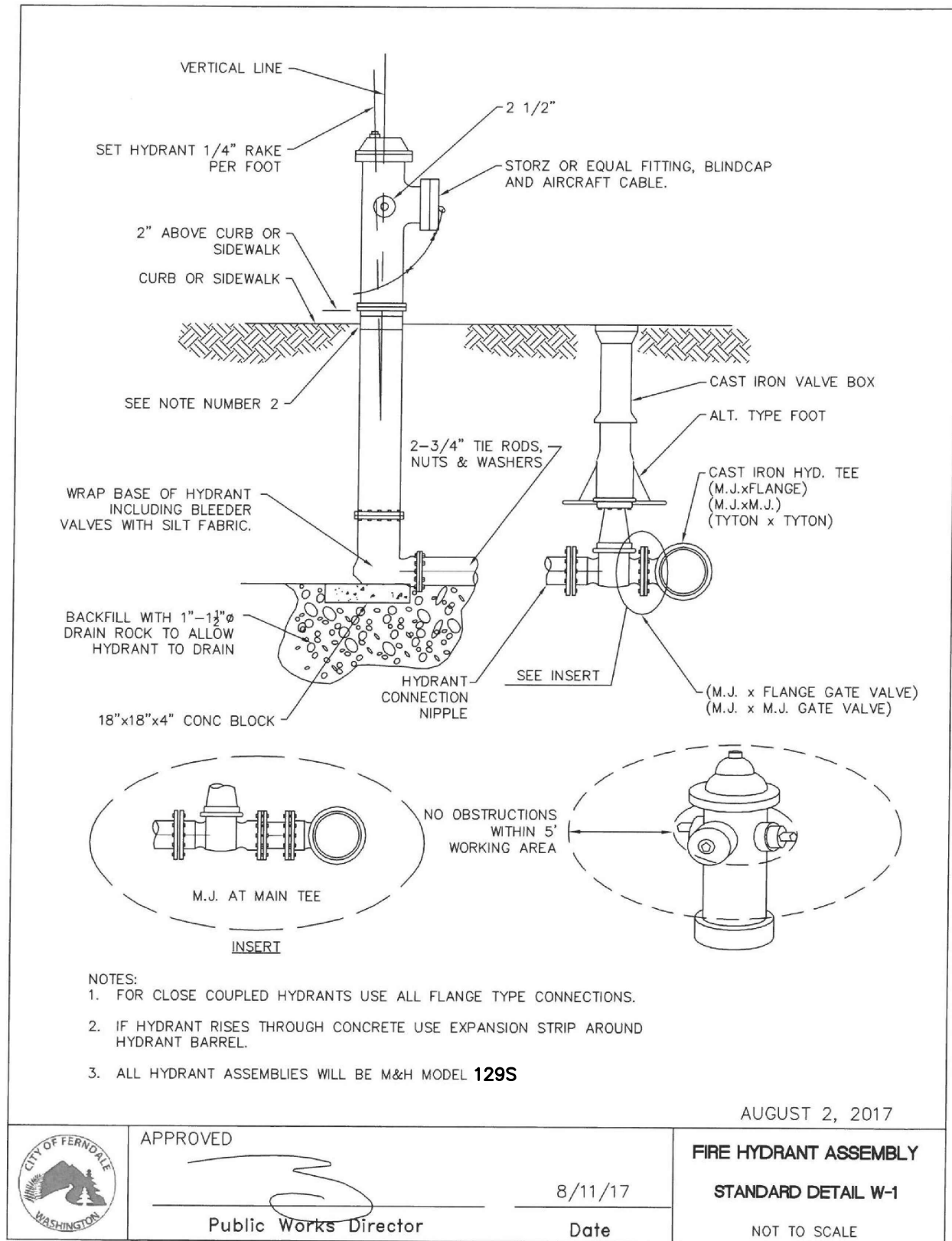
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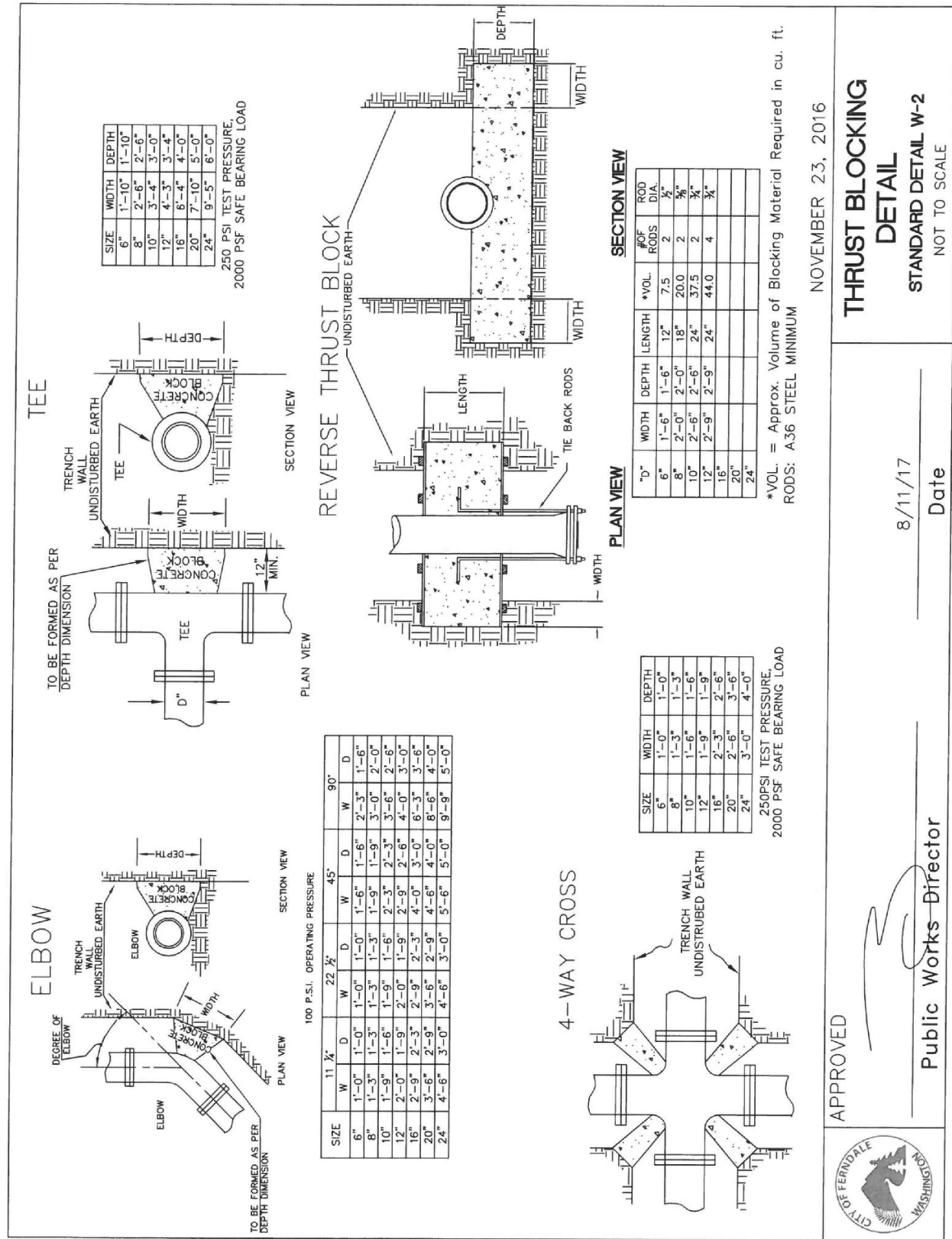


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**A** FIRE HYDRANT ASSEMBLY

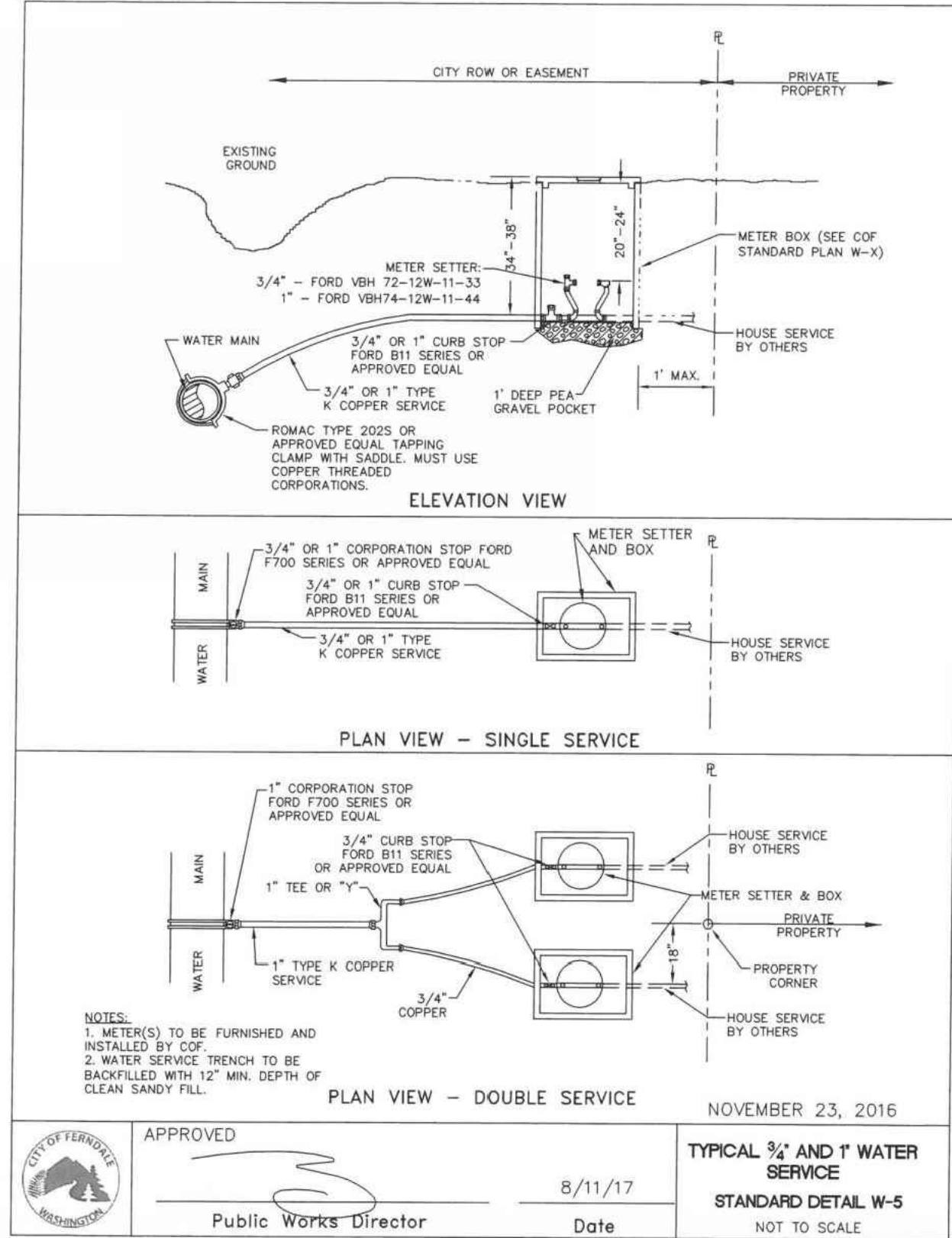


**B** THRUST BLOCKING

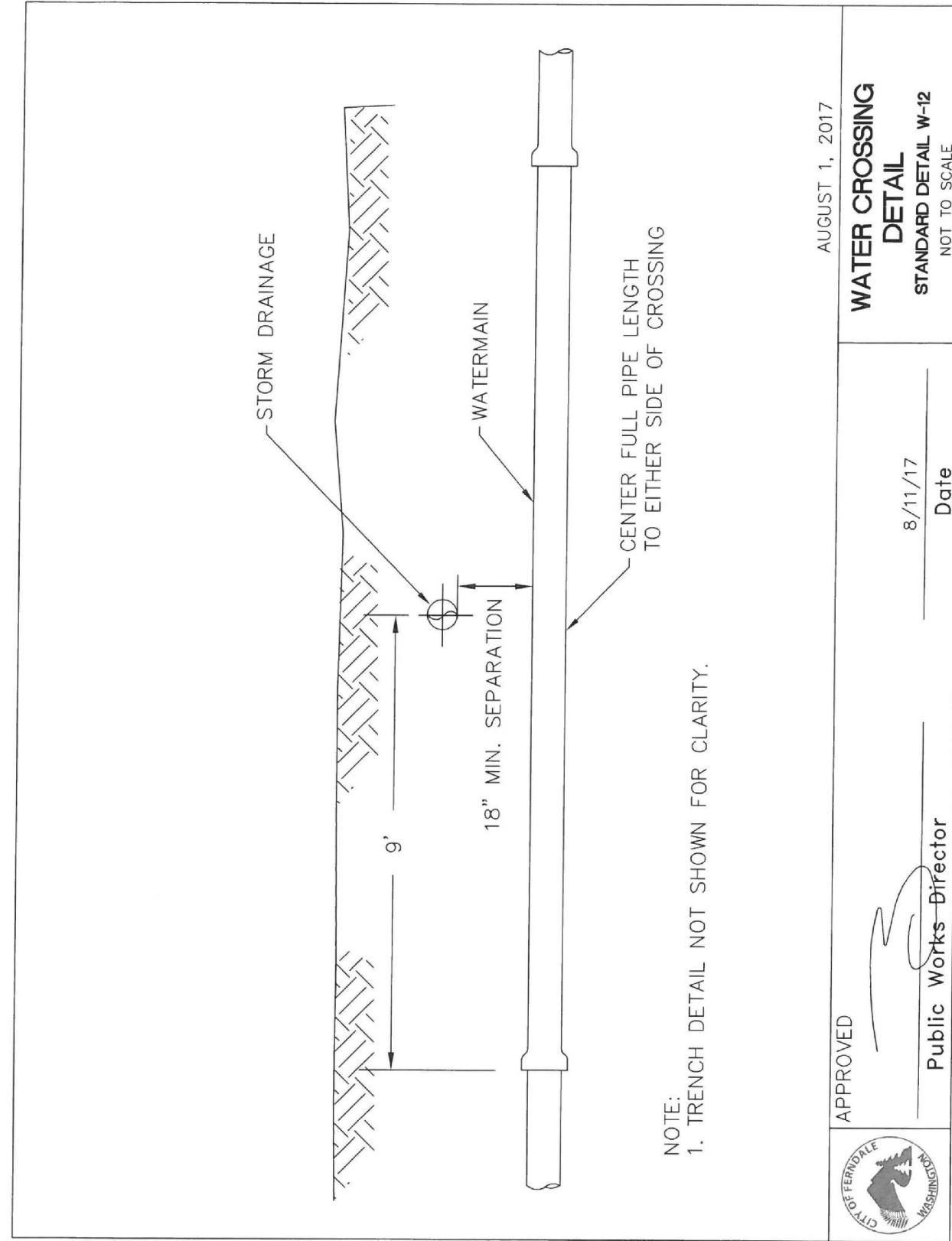
**AS-BUILT DRAWING**

AS-BUILT NOTE:

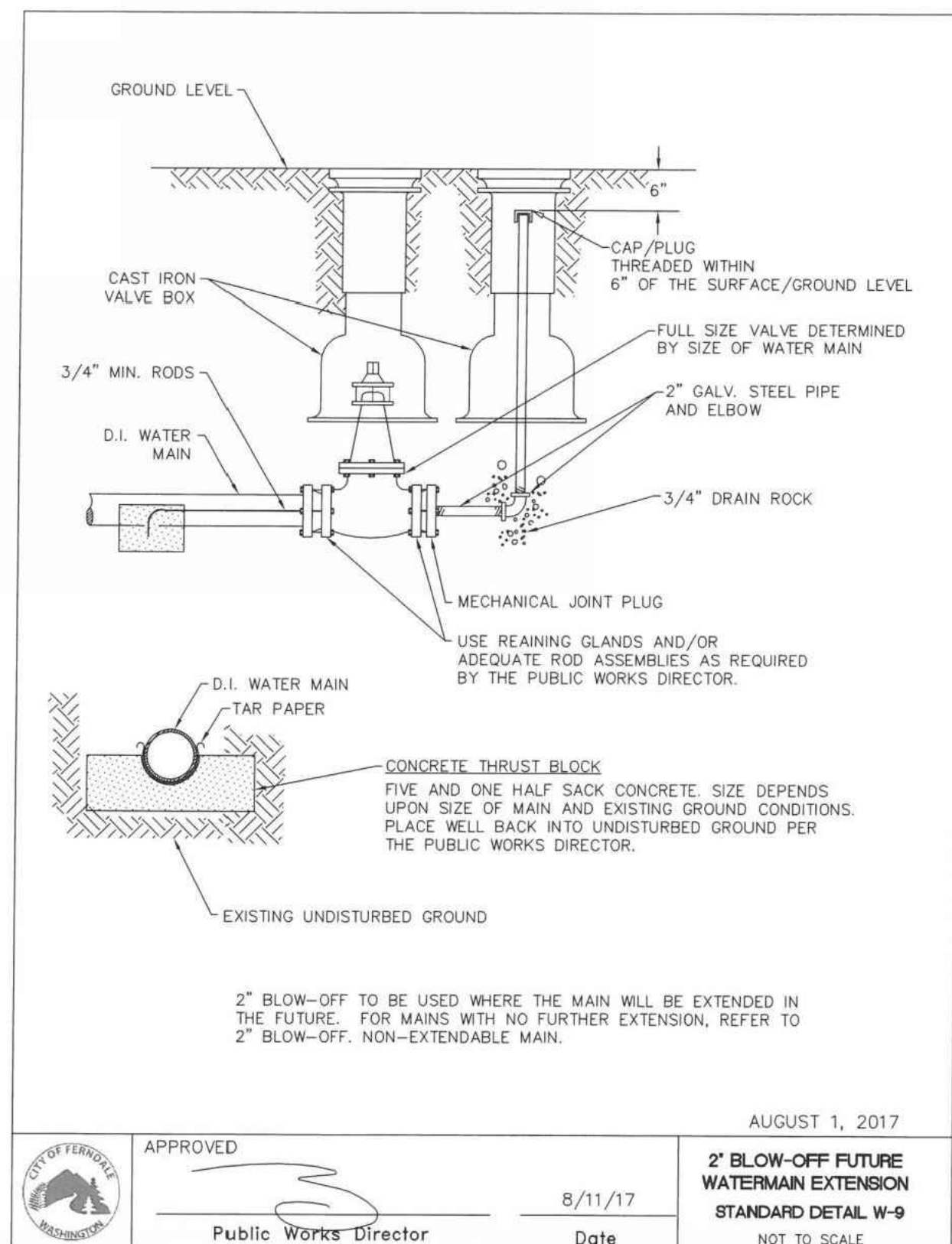
ONLY INFORMATION NOTED AS AS-BUILT "AB" HAS BEEN PROVIDED BY SURVEYOR



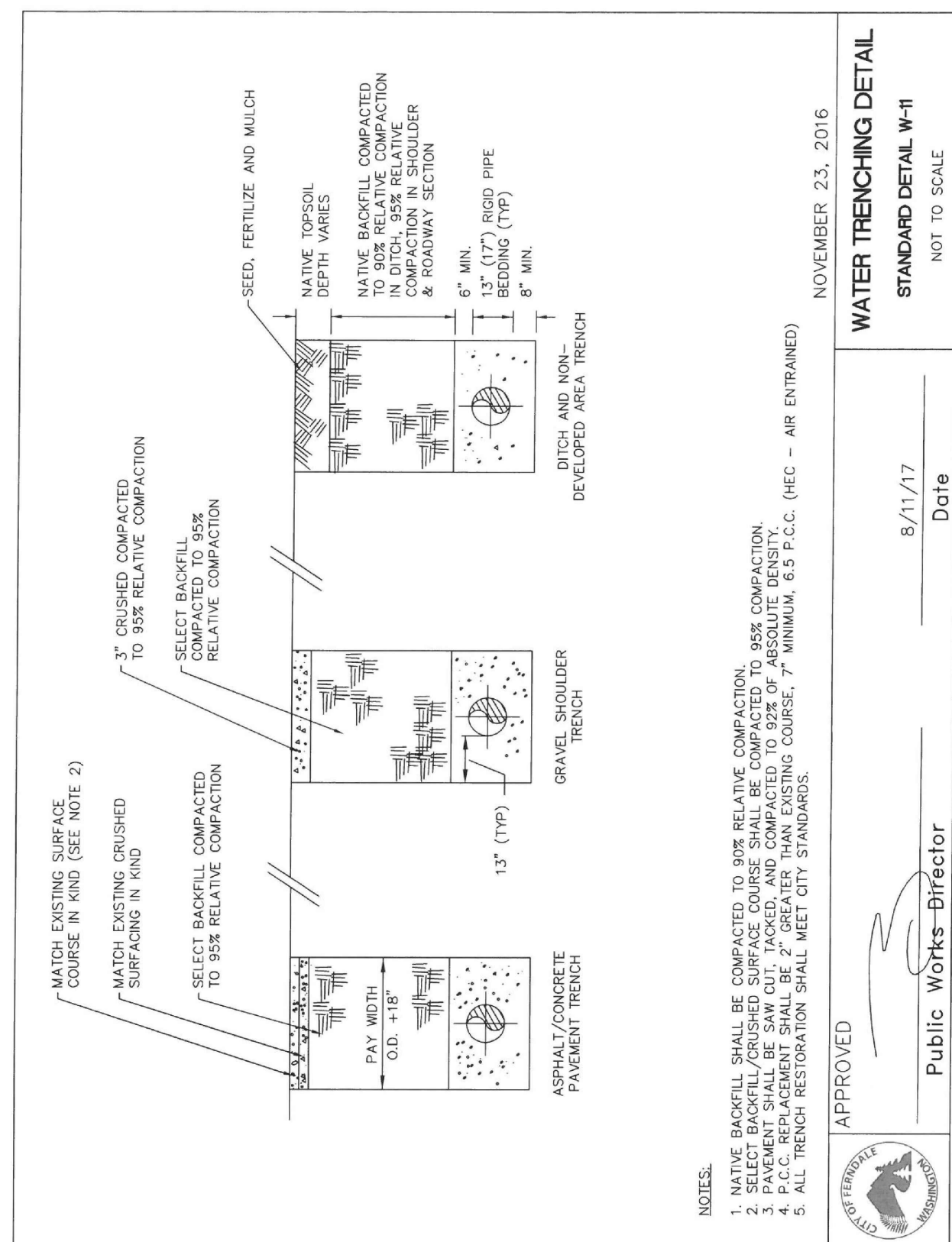
**C** 1" WATER SERVICE



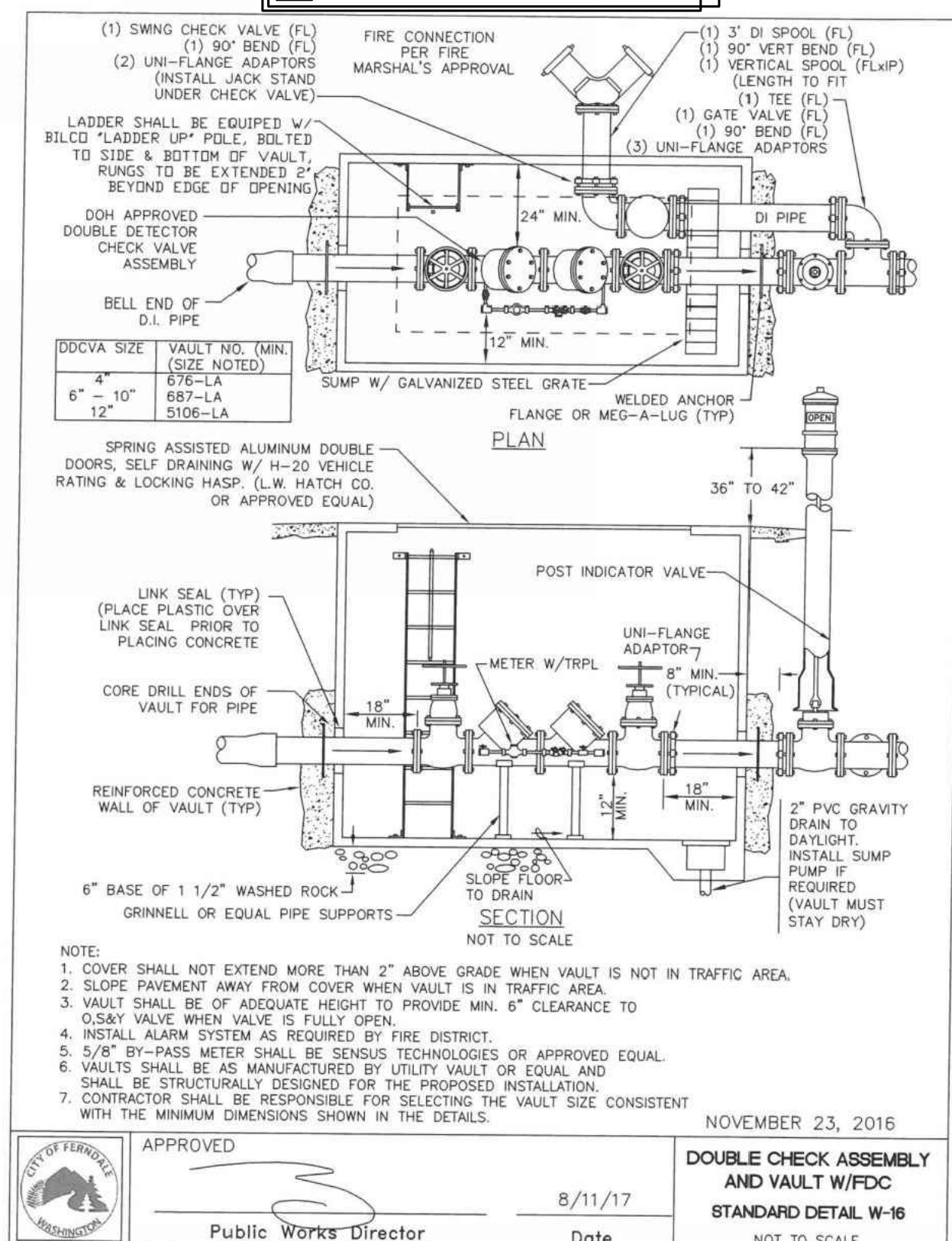
**D** UTILITY CROSSINGS AT WATER MAIN



**E** BLOW OFF ASSEMBLY



**F** WATER TRENCHING





# CITY OF FERNDALE - GENERAL NOTES

## GENERAL REQUIREMENTS

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD WSDOT SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION, CURRENT EDITION AND THE CITY OF FERNDALE DEVELOPMENT STANDARDS, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE. IN THE EVENT OF A CONFLICT, THE MORE STRINGENT REQUIREMENT SHALL APPLY.
2. PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWS ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES. THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE CONDITIONS AND SOILS TYPES.
4. 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. ALL STRUCTURES AND GRADES WILL BE CLEARLY STAKED AND MARKED PRIOR TO CITY INSPECTION.
5. THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
6. WHEN THE CONTRACTOR CONSIDERS THE WORK PHYSICALLY COMPLETE AND READY FOR FINAL INSPECTION, THE CONTRACTOR SHALL REQUEST THAT CITY INSPECTOR 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.

1. NO WORK SHALL OCCUR BETWEEN 7:00 PM & 7:00 AM MONDAY THROUGH SATURDAY.
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 FERNDALE DRAWING R-11.
13. ALL WORK MUST BE INSPECTED BY A REPRESENTATIVE OF THE CITY OF FERNDALE 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. THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATION FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
15. AS-BUILT DATA SHALL BE PROVIDED TO THE CITY OF FERNDALE UPON COMPLETION OF CONSTRUCTION AND PROVIDED IN CITY OF FERNDALE DATUM—VERTICAL (NGVD 29) AND HORIZONTAL (NAD 83/91). CONTACT THE CITY FOR MORE INFORMATION ON SUBMITTAL REQUIREMENTS. ALL EXISTING AND NEW SITE IMPROVEMENTS MUST BE ACCURATELY DOCUMENTED PRIOR TO FINAL PROJECT ACCEPTANCE.
16. METHOD OF SURVEY, SURVEY DATA, AND SURVEY EQUIPMENT UTILIZED TO CREATE THE BASE MAP/EXISTING CONDITIONS ARE NOTED ON SHEET C2 OF THIS PLAN SET.
17. 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.
18. A REVOCABLE ENCROACHMENT PERMIT SHALL BE OBTAINED PRIOR TO COMMENCING WORK IN THE PUBLIC RIGHT-OF-WAY.
19. POT HOLING ALL EXISTING UTILITIES IS REQUIRED PRIOR TO CONSTRUCTION TO VERIFY DESIGN FEASIBILITY. THE CITY DOES NOT GUARANTEE AS BUILT INFORMATION IN THE CITY DATA BASE IS ACCURATE AND WILL NOT BE HELD RESPONSIBLE IF FIELD MODIFICATIONS AND/OR ADDITIONAL COSTS ARE REQUIRED BECAUSE POT HOLING WAS NOT DONE PRIOR TO DESIGN.

## BASES

1. GRAVEL BASE AND GRAVEL BALLAST USED FOR TRENCH BACKFILL AND ROAD CONSTRUCTION MUST MEET CURRENT WSDOT REGULATIONS AND SPECIFICATIONS.

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. PRIOR TO IMPORTING OF MATERIAL FOR BASE AND CSTC THE CONTRACTOR SHALL PROVIDE EVIDENCE OF SATISFACTORY PASSING GRADING AND DEGRADATION TEST RESULTS TO THE ENGINEER AND CITY.
- PAVEMENTS**
1. WHERE SHOWN ON THE PLANS, PAVEMENT MARKINGS SHALL BE OBLITERATED UNTIL BLEMISHES 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 FERNDALE REQUIREMENTS. ALL PURIFICATION ACCEPTANCE TESTING SHALL BE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. THE PIPE WILL NOT PASS UNLESS A ZERO BACTERIA COUNT IS OBTAINED FOR TWO CONSECUTIVE TESTS 24 HOURS APART.
2. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705 AND THE MOST RECENT VERSION OF WSDOT STANDARD SPECIFICATIONS.
3. ALL BACKFILL SHALL BE IMPORTED GRAVEL AND SHALL CONFORM TO SECTION 2-09 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
4. ALL PIPES SHALL HAVE A MINIMUM COVER OF 3.0 FEET AND A MAXIMUM OF 3.5 FEET UNLESS OTHERWISE APPROVED.

## 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.

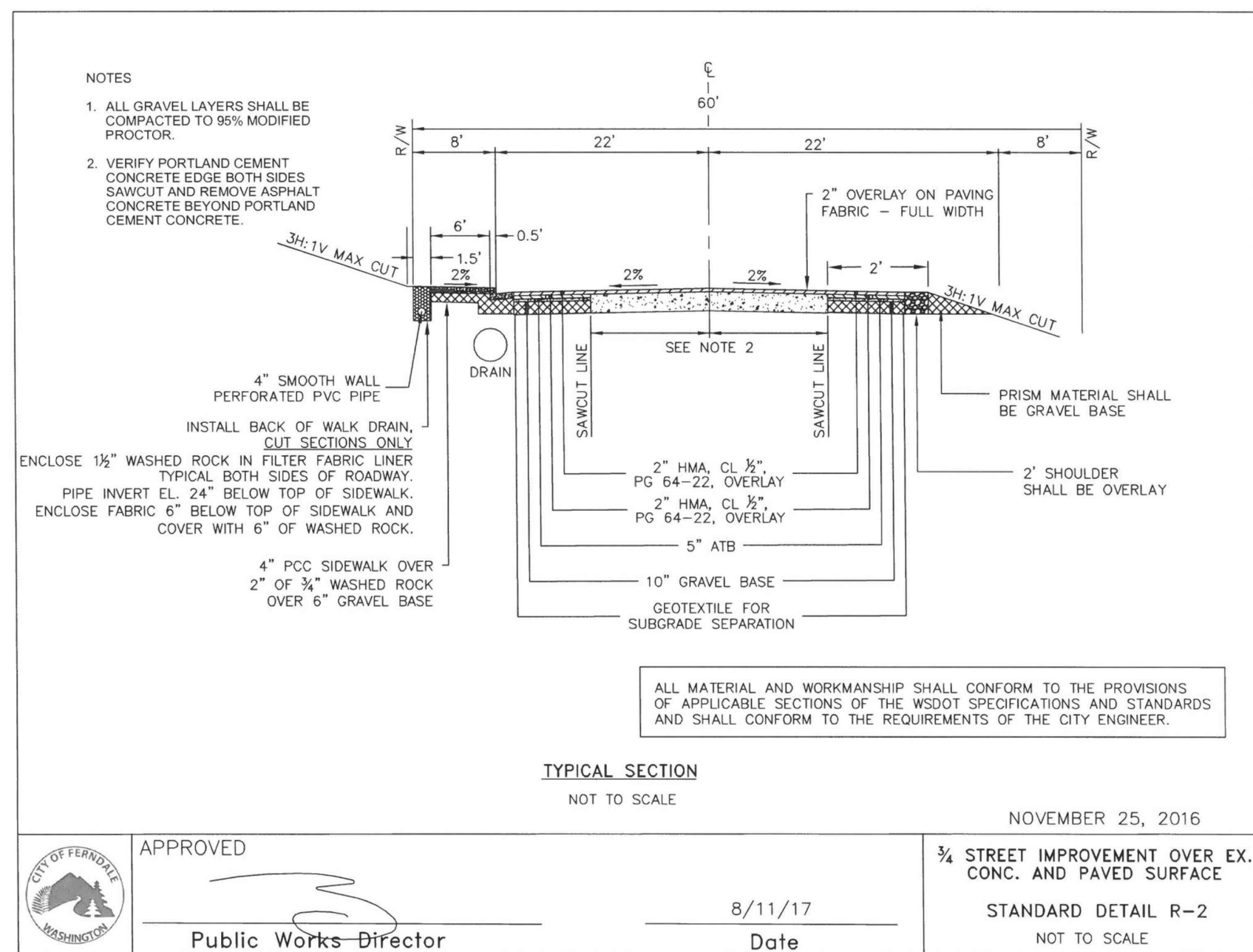
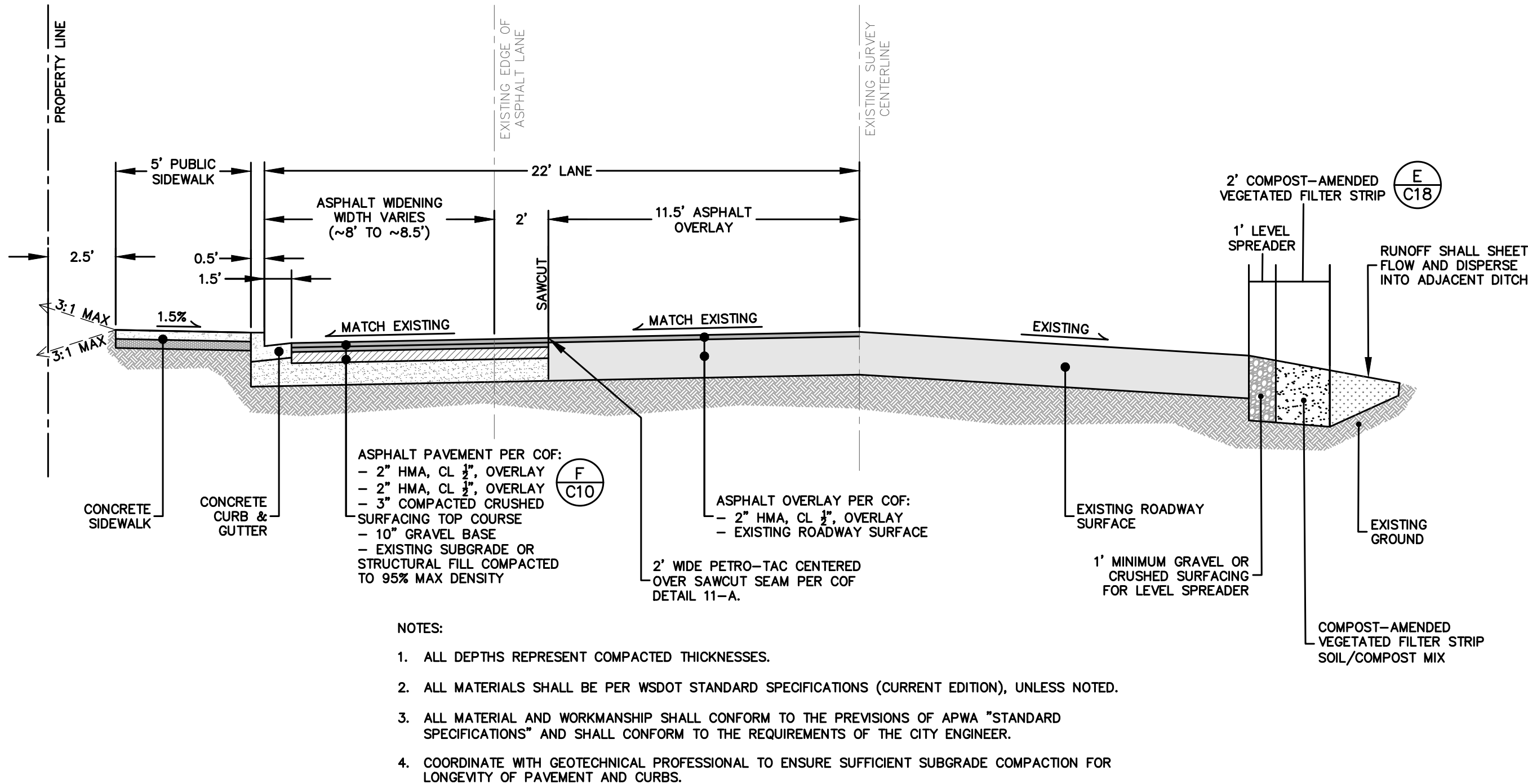
4. THE UNSUITABLE MATERIAL NOT FIT FOR A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.

## ***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".
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).

**CITY OF FERNDALE NOTES**

1. APPLICANT/OWNER WILL PROVIDE ANYTIME ACCESS TO BOTH THE CITY AND FIRE DISTRICT AS NEEDED. KEY OR CODE ACCESS TO THE SATISFACTION OF BOTH CITY AND FIRE DISTRICT TO PROVIDE SAID ACCESS WILL BE REQUIRED PRIOR TO CITY FINAL ACCEPTANCE OF THE PROJECT.
2. ALL PROPOSED LOCKABLE GATE LOCATIONS CONCEALING CITY INFRASTRUCTURE, FIRE DEPARTMENT CONNECTION, AND BUILDING ACCESS MUST PROVIDE 24 HR ACCESS VIA CODE OR ELECTRONIC OPENING DEVICES AS REQUIRED BY THE CITY OF FERNDALE AND FIRE DISTRICT #7.
3. ALL STRUCTURES, STORM FACILITIES, AND UTILITY CONNECTION POINTS WILL BE LOCATED AND MARKED APPROPRIATELY BY A LICENSED SURVEYOR PRIOR TO START OF CONSTRUCTION AND/OR CITY INSPECTION.
4. ALL EXISTING SEWER AND WATER SERVICES NOT UTILIZED WILL BE ABANDONED APPROPRIATELY AT THE MAIN.
5. ALL EXISTING AND NEW FACILITIES CONNECTING TO THE PUBLIC WATER SOURCE MUST BE DCVA PROTECTED. VERIFICATION OF DEVICES, LOCATIONS OF DEVICES AND NEW UPGRADES NEEDED TO COMPLY WILL BE REQUIRED PRIOR TO PROJECT ACCEPTANCE BY THE CITY.



### INSPECTION NOTE

MATERIAL USAGE, SOIL OBSERVATIONS, AND NECESSARY COMPACTION REQUIRED TO MEET CITY STANDARDS AND SPECIFICATIONS WITHIN CITY RIGHT OF WAY MUST BE DONE BY A LICENSED GEOTECHNICAL ENGINEER. VERIFICATION OF SAMPLES AND TESTING WILL BE REQUIRED PRIOR TO FINAL CITY PROJECT ACCEPTANCE.

**A** BARRETT ROAD CROSS SECTION

### 3/4 STREET IMPROVEMENT DETAIL

## AS-BUILT DRAWING

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS AS-BUILT "(AB)"  
HAS BEEN PROVIDED BY SURVEYOR

**CALL BEFORE YOU DIG**  
**1-800-424-5555**

SHEET NOTES:

**APPROVED**  
10/01/2025

BY: Th. Hargrove Kevin Per 2  
CITY OF FERDALE  
PUBLIC WORKS DEPARTMENT

## REVISIONS

[illegible]

PROFESSIONAL SEAL



CONSULTANT LOGO:



2500 Elm Street, Suite 1  
Bellingham, WA 98225  
t: 360.650.1408  
f: 360.650.1401

**F R E E L A N D**  
**& A S S O C I A T E S**

**AMERCO.**  
REAL ESTATE COMPANY

CONSTRUCTION DEPARTMENT

2727 NORTH CENTRAL  
AVENUE PHOENIX, ARIZONA  
85004  
PH: (602) 263-6502

SITE ADDRESS:

UHAUL FERNDALE  
5440 BARRETT ROAD  
FERNDALE, WA 98248

SHEET CONTENTS

FERNDALE  
GENERAL NOTES &  
BARRETT ROAD  
CROSS SECTIONS

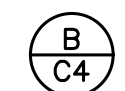
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CHECKED:	JPS	
DATE:	9-19-2025	

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## E<sub>nts</sub> COMPOST-AMENDED VEGETATED FILTER STRIP (CAVFS)

**(F) BIORETENTION SOIL MIX SPECIFICATION**

**AS-BUILT NOTE:**  
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