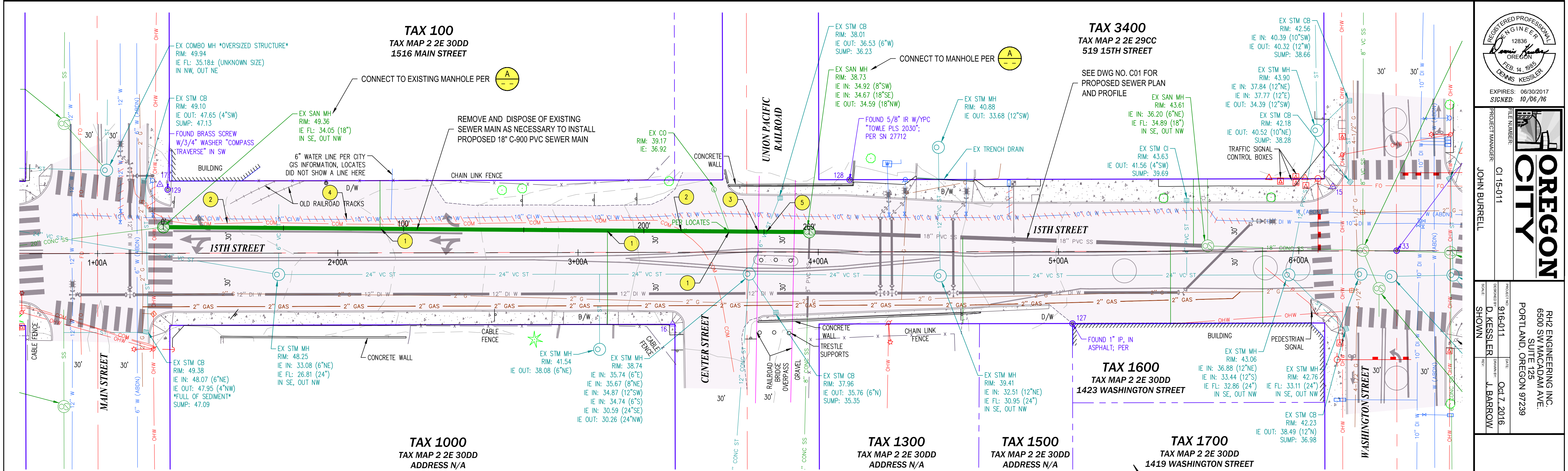
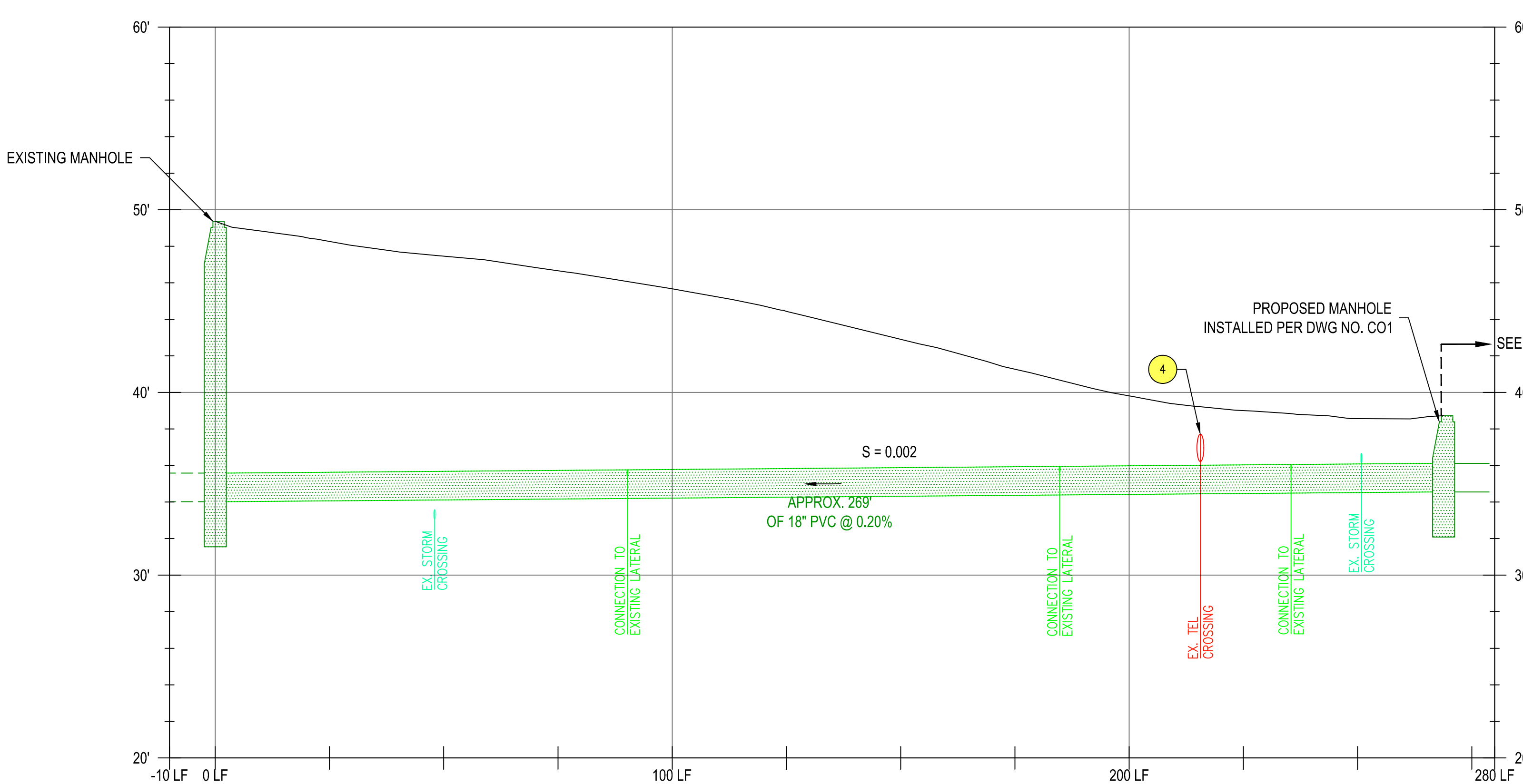
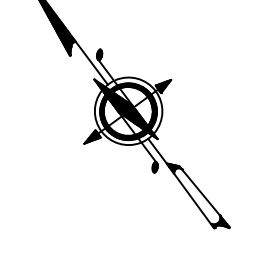




SEWER MAIN PLAN

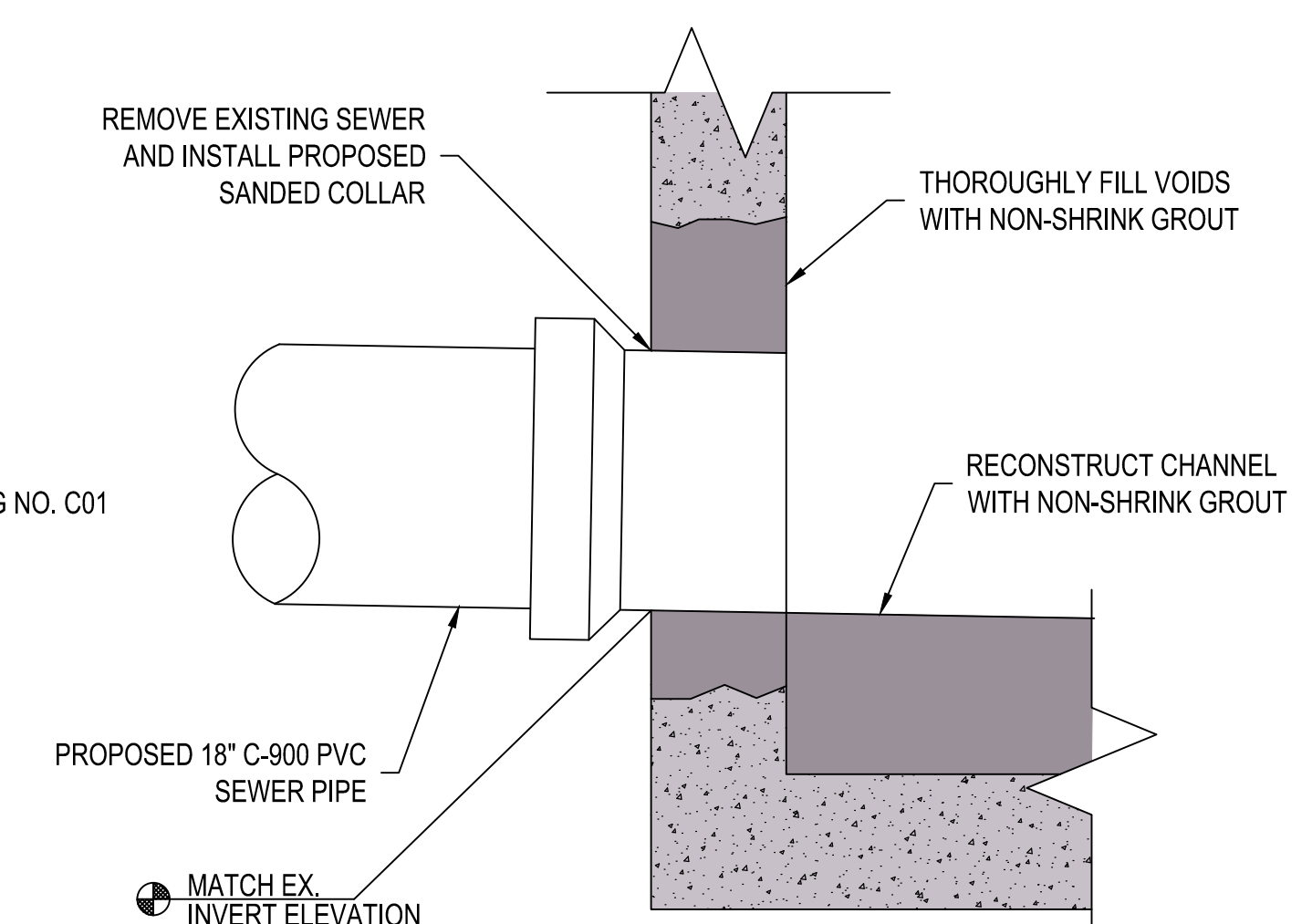
1" = 20'



SEWER MAIN PROFILE

H: 1" = 20', V: 1" = 5'

NOTE: SEWER MAIN PROFILE IS SHOWN BASED ON CENTERLINE OF PIPE. HORIZONTAL SCALE IS BASED ON DISTANCE ALONG PIPE STARTING AT DOWNSTREAM MANHOLE.



EXISTING MANHOLE WALL PENETRATION DETAIL

NOT TO SCALE

SEWER CONSTRUCTION NOTES

1. CONTRACTOR SHALL LOCATE AND CONNECT EXISTING SEWER LATERALS TO PROPOSED SEWER MAIN.
2. POTHOLE EXISTING COMMUNICATION DUCT BANK TO VERIFY DEPTH AND SIZE. COORDINATE WITH UTILITY OWNER REGARDING SUPPORTING, PROTECTING AND/OR RELOCATING EXISTING COMMUNICATIONS DUCT BANK AS NECESSARY FOR CONSTRUCTION OF PROPOSED SEWER IMPROVEMENTS.
3. PROPOSED SEWER PASSES UNDER UNION PACIFIC RAILROAD BRIDGE OVERPASS. CONTRACTOR SHALL TAKE ADEQUATE SAFETY PRECAUTIONS WHEN WORKING ADJACENT TO OR BELOW TRACKS.
4. REMOVE AND DISPOSE OF ABANDONED 10" CI WATER MAIN AS NECESSARY FOR CONSTRUCTION OF PROPOSED SEWER IMPROVEMENTS.
5. PROTECT AND/OR REPLACE 6" VC STORM AS NECESSARY FOR CONSTRUCTION OF PROPOSED SEWER IMPROVEMENTS.

GENERAL SEWER CONSTRUCTION NOTES

1. CONTRACTOR SHALL PROVIDE BYPASS PUMPING AROUND SEWER AND MANHOLE CONSTRUCTION. SUBMIT BYPASS PUMPING PLAN FOR APPROVAL.
2. MAINTAIN LOCAL ACCESS TO ALL DRIVEWAYS AND BUSINESSES.
3. PIPE BEDDING AND PIPE ZONE MATERIAL SHALL CONFORM WITH GRANULAR BEDDING AND BACKFILL REQUIREMENTS APWA DIVISION III, SECTION 301.2.02 AND SHALL BE 3/4"-0" CRUSHED ROCK, CLASS "B". TRENCH BACKFILL SHALL BE CLASS B PER APWA DIVISION III, SECTION 301.2.04B IN ALL PUBLIC STREETS OR PAVED AREAS IN THE PROJECT. TRENCH BACKFILL COMPACTION SHALL BE PER APWA DIVISION III, SECTION 301.3.07. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE THE REQUIRED COMPACTION. 95% COMPACTION, AASHTO T99, IS REQUIRED IN PUBLIC STREETS AND PAVED AREAS, 85% COMPACTION REQUIRED IN NON-BUILDABLE AREAS.
4. ALL SEWER LINES SHALL BE AIR TEST PER DIVISION III, SECTION 303.3.9C OF THE STANDARD SPECIFICATIONS. AS REQUIRED BY APWA, MANHOLES SHALL BE HYDROSTATICALLY TESTED IN ACCORDANCE WITH APWA DIVISION III, SECTION 306.3.03. ALL MANHOLES MAY BE VACUUM TESTED AS A SUBSTITUTION FOR HYDROSTATIC TESTING IF APPROVED BY THE CITY ENGINEER. ALL SEWER LINES SHALL BE CCTV INSPECTED AFTER COMPLETION.

REGISTERED PROFESSIONAL ENGINEER
12836
DENNIS KESSLER
FEB 14, 2015
EXPIRES: 08/30/2017
SIGNED: 10/06/16

PROJECT MANAGER:
JOHN BURRELL

FILE NUMBER:
CI 15-011

DATE:
Oct 7, 2016

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SUITE 125

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SEWER PLAN AND PROFILE 2

15th STREET WATERLINE REPLACEMENT
OREGON CITY, OREGON
CITY FILE NO. CI 15-011

REVISIONS	DATE	DESCRIPTION
1	10/6/16	SANITARY SEWER EXTENSION

DRAWING NUMBER:

C01.1

SHEET 13.1 OF 25