

# VIEWS ON 5TH

410 5TH AVE SW OLYMPIA, WA 98502

UTILITIES  
SEWER.....CITY OF OLYMPIA  
WATER.....CITY OF OLYMPIA  
GAS & ELECTRICITY.....PUGET SOUND ENERGY  
TELEPHONE/CABLE.....CENTURY LINK/COMCAST  
SCHOOLS.....OLYMPIA SCHOOL DISTRICT

SITE INFORMATION  
SITE ADDRESS.....410 5TH AVE SW  
PARCEL # 91005502000, 91005301000, 91005201000  
TOTAL AREA.....1.32 AC  
SOILS.....XERORTHENTS  
ZONING.....UWH

TOTAL LOT AREA.....1.32 AC  
TOTAL PROJECT AREA.....1.06 AC

BUILDING AREAS:  
NEW PARKING GARAGE FOOTPRINT.....0.45 AC  
NEW RESIDENTIAL BUILDING FOOTPRINT.....0.08 AC  
NEW TOWER FOOTPRINT.....0.25 AC  
NEW/REPLACED PAVING.....0.28 AC

## LEGEND

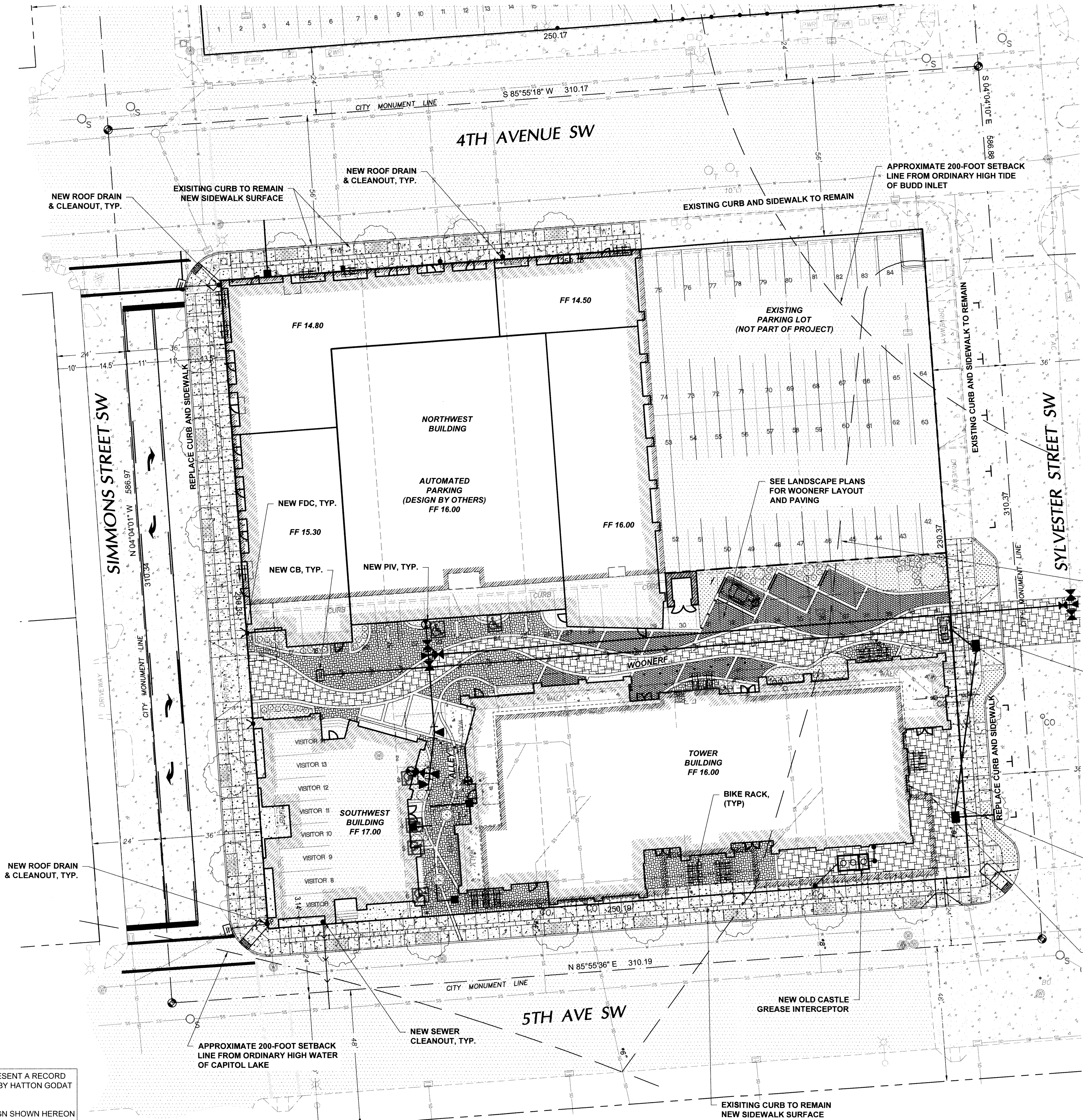
- |                              |                                      |
|------------------------------|--------------------------------------|
| EX FIRE HYDRANT              | EXISTING CURB TO REMAIN              |
| EX WATER METER               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX WATER VALVE               | EXISTING CURB AND SIDEWALK TO REMAIN |
| EX CLEAN OUT                 | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX CATCH BASIN               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX POWER POLE                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX GAS METER                 | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX GAS VALVE                 | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX JUNCTION BOX              | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX PARKING METER             | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX CROSSWALK EYE             | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX SIGN                      | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX TRAFFIC SIGNAL POLE       | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX STREET LIGHT              | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX LUMINAIRE                 | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX POWER VAULT               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX WATER VAULT               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX SIGNAL BOX                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX UTILITY VAULT             | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX TELEPHONE VAULT           | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX FIRE DEPARTMENT CONNECTOR | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX POST INDICATOR VALVE      | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX CONCRETE                  | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX WATER LINE                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX STORM DRAINAGE LINE       | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX SANITARY SEWER LINE       | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX POWER LOCATE              | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX TELEPHONE LOCATE          | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| EX GAS LOCATE                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW FENCE                    | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW WATER LINE               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW STORM LINE               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW SEWER LINE               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW WATER TEE                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW WATERMETER               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW WATER BEND               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW FDC                      | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW PIV                      | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW GATE VALVE               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW SEWER CLEAN OUT          | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW CATCH BASIN              | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW CATCH BASIN W/ SOLID LID | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW DOWN SPOUT               | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW CLEAN OUT                | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW PAVERS                   | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW PAVERS                   | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW PAVERS                   | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW CONCRETE                 | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| NEW FOUNDATION FOOTPRINT     | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| LANDSCAPE / GRASS            | NEW ROOF DRAIN & CLEANOUT, TYP.      |
| TREE                         | NEW ROOF DRAIN & CLEANOUT, TYP.      |

NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

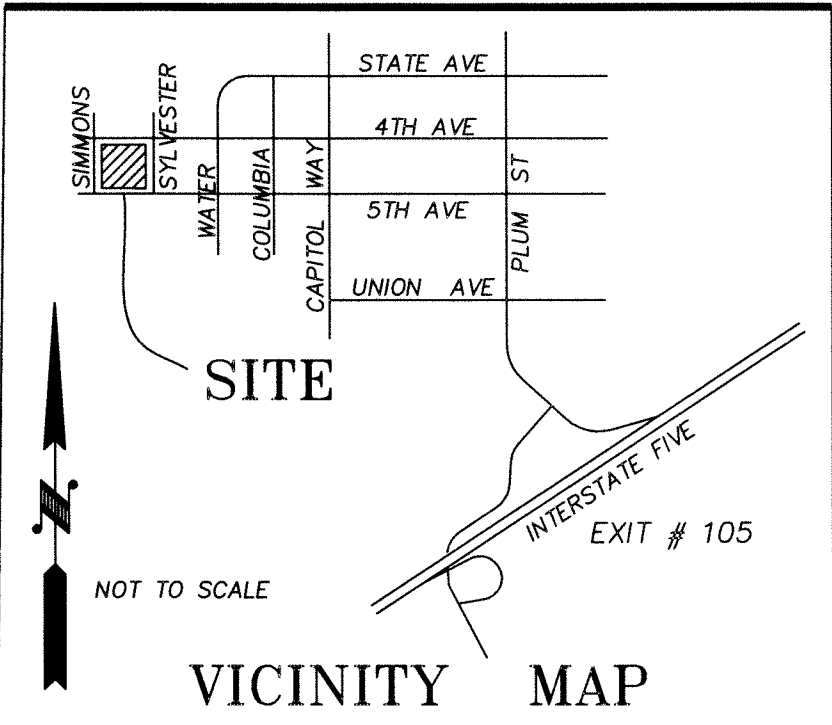
TOPOGRAPHIC NOTE:  
THE EXISTING TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, HGP CANNOT ENSURE ITS ACCURACY AND THIS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT.

THIS DRAWING DOES NOT REPRESENT A RECORD DOCUMENT, UNLESS CERTIFIED BY HATTON GODAT PANTIER.

ANY ALTERATIONS TO THE DESIGN SHOWN HEREON MUST BE REVIEWED AND APPROVED BY HATTON GODAT PANTIER.



DATUM	CITY OF OLYMPIA	DATUM
VERTICAL DATUM THURSTON COUNTY HIGH PRECISION CONTROL POINT NO. 4HBRIDGE 3" T.C. BRASS CAP IN SIDEWALK OLYMPIA/4th AVE BRIDGE. POINT FALLS IN CONC. SIDEWALK 3" N OF N FACE OF CONC. RAIL. 1.8' EAST OF SEAM OVER SE "ENDWALL". 63.5' WEST OF SE CONC. RAIL. SOUTH SIDE OF BRIDGE. NAVD 88 ELEVATION=20.00	MERIDIAN (HORIZONTAL DATUM) CITY OF OLYMPIA COORDINATE SYSTEM BASED ON MONUMENT LINE OF SYLVESTER ST. SE AS SHOWN EQUALS NORTH 4°04'10" WEST	



**PROJECT PROPONENT**  
VIEWS ON FIFTH, LLC  
5020 JOPPA ST SW  
TUMWATER, WA 98512  
(360) 705-8926

## SHEET INDEX

- COVER SHEET / SITE PLAN
- CITY STANDARD NOTE SHEET
- EROSION CONTROL & DEMOLITION PLAN
- FRONTAGE IMPROVEMENTS
- STREET DETAILS I
- STREET DETAILS II
- GRADING PLAN
- DRAINAGE PLAN
- DRAINAGE PLAN AND PROFILE
- DRAINAGE DETAIL
- WATER PLAN
- WATER PLAN AND PROFILE
- WATER DETAILS
- SANITARY SEWER PLAN

APPROXIMATE 100 YEAR  
BASE FLOOD ELEVATION

NEW CONTECH  
STORMWATER  
FILTER

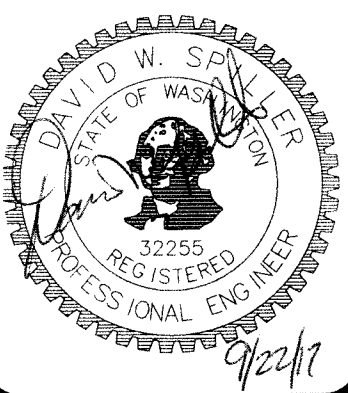
NEW FOOTPRINT (TYP)

OLD FOOTPRINT (TYP)

**APPROVED FOR CONSTRUCTION**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER  
APPROVAL EXPIRES: \_\_\_\_\_

DESIGNED BY: LDT  
DRAWN BY: MAM/LOT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: 1" = 20'



**HATTON GODAT PANTIER**  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E. SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
hattonpantier.com

REVISIONS:  
DATE: \_\_\_\_\_

TE# 91005301000, 91005201000, 91005502000  
**VIEWS ON 5TH**  
410 5TH AVE SW OLYMPIA WA 98502  
**COVER SHEET / SITE PLAN**  
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTH-EAST QUARTER OF  
SECTION 14, TOWNSHIP 10 NORTH, RANGE 2 WEST, WA.

AGENCY NO. 16.9069  
SHEET: 1 OF 14  
E:\dgn\17-000\17-010\CDs  
INDEX: 17-010-cov.dwg  
JOB: 17-010



REQUIRED GENERAL NOTES FOR ALL PROJECTS:

1. ALL WORK AND MATERIALS SHALL BE COMPLETED IN ACCORDANCE WITH THE MOST CURRENT "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" FROM THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, THE CITY OF OLYMPIA ENGINEERING DESIGN AND DEVELOPMENT STANDARDS (EDDS), THE CITY OF OLYMPIA SUPPLEMENTAL SPECIFICATIONS AND THE CONTRACT SPECIFICATIONS AND SPECIAL PROVISIONS.
2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE CITY PRIOR TO THE START OF CONSTRUCTION.
3. UNLESS NOTED OTHERWISE, UTILITIES SHOWN ON THE PLAN AND PROFILE ARE EXISTING, AND ARE LOCATED TO THE BEST INFORMATION AVAILABLE AT THE TIME OF PRINTING. THE CONTRACTOR SHALL VERIFY PRIOR TO CONSTRUCTION AND TAKE EXTRAORDINARY CARE WHEN EXCAVATING NEAR OR AROUND UTILITY CROSSINGS INCLUDING "HAND" EXCAVATION AND POT HOLING. IN THE EVENT OF A CONFLICT, THE CONTRACTOR SHALL COORDINATE WITH THE ENGINEER AND THE PRIVATE UTILITY TO RAISE, RELOCATE, OR LOWER THE CONFLICTING APPURTENANCES.
4. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING 811, THE UNDERGROUND LOCATE LINE, A MINIMUM OF 48 HOURS (TWO WORKING DAYS) PRIOR TO ANY EXCAVATION. IT IS THE RESPONSIBILITY OF THE REQUESTER TO MAINTAIN THE MARKINGS AFTER THE INITIAL LOCATE IN ACCORDANCE WITH RCW 19.122.
5. EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "DRAINAGE DESIGN AND EROSION CONTROL MANUAL FOR OLYMPIA" (DRAINAGE MANUAL).
6. CONTRACTOR SHALL PROTECT ALL TREES AND VEGETATION THAT ARE NOT TO BE REMOVED AS DIRECTED BY THE ENGINEER.
7. ALL DRAINAGE STRUCTURES, SANITARY MANHOLES, WATER METERS, WATER VALVES OR OTHER APPURTENANCES SHALL BE ADJUSTED TO FINAL GRADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED ON THE PLANS.
8. CONTRACTOR SHALL MAINTAIN FUNCTION OF ALL EXISTING UTILITIES DURING CONSTRUCTION, UNLESS OTHERWISE AGREED.
9. CONTRACTOR SHALL TAKE CARE NOT TO DAMAGE EXISTING SIDEWALK AND ROAD SURFACES OUTSIDE OF THE PROJECT LIMITS. ALL DAMAGE OR UNDERMINING SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO IMMEDIATELY REPAIR TO CITY STANDARDS AT THE CONTRACTOR'S EXPENSE.
10. ALL EXISTING SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE RELOCATED AS DIRECTED BY THE ENGINEER.
11. ACCESS TO PRIVATE PROPERTY SHALL BE MAINTAINED AT ALL TIMES UNLESS PRIOR APPROVAL AND COORDINATION HAS OCCURRED.
12. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL IN ACCORDANCE WITH THE U.S. DEPARTMENT OF TRANSPORTATION MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). PRIOR TO DISRUPTION OF ANY TRAFFIC, TRAFFIC CONTROL PLANS WILL BE PREPARED AND SUBMITTED TO THE CITY FOR APPROVAL. NO WORK WILL COMMENCE UNTIL ALL APPROVED TRAFFIC CONTROL IS IN PLACE.
13. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE A COPY OF THE APPROVED CONSTRUCTION PLANS ON SITE AT ALL TIMES.
14. ANY CHANGES TO THE DESIGN SHALL FIRST BE REVIEWED AND APPROVED BY THE ENGINEER.
15. CITY OF OLYMPIA VERTICAL DATUM IS NAVD 88 AND SHALL BE USED FOR ALL VERTICAL CONTROL.

STANDARD NOTES FOR EROSION AND SEDIMENT CONTROL PLANS:

THE FOLLOWING STANDARD NOTES ARE REQUIRED FOR USE IN EROSION AND SEDIMENT CONTROL PLANS. PLANS SHOULD ALSO IDENTIFY WITH PHONE NUMBERS THE PERSON OR FIRM RESPONSIBLE FOR THE PREPARATION OF AND MAINTENANCE OF THE EROSION CONTROL PLAN.

1. NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUND WATER, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTION THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL.
2. A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD (CESCL) IS REQUIRED FOR ALL CONSTRUCTION PROJECTS. THE NAMED PERSON OR FIRM SHALL BE ON-SITE OR ON-CALL AT ALL TIMES. FOR THIS SITE, THE PERSON/FIRM IS \_\_\_\_\_ AND THEIR OFFICE AND CELL TELEPHONE NUMBERS ARE \_\_\_\_\_ T.B.D.
3. APPROVAL OF THIS EROSION/SEDIMENTATION CONTROL (ESC) PLAN DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STREET OR DRAINAGE DESIGN (E.G. SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
4. THE IMPLEMENTATION OF THESE ESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE APPLICANT/CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED AND VEGETATION/LANDSCAPING IS ESTABLISHED.
5. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
6. STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
7. THE ESC FACILITIES SHOWN ON THIS PLAN MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DO NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
8. THE ESC FACILITIES SHOWN ON THIS PLAN ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT-LADEN WATER DO NOT LEAVE THE SITE.
9. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
10. THE ESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN 48 HOURS FOLLOWING A MAJOR STORM EVENT.
11. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A TRAPPED CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE HIGH VELOCITY CLEANED AND PRESSURE TESTED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
12. ROADS SHALL BE CLEANED THOROUGHLY AS NEEDED TO PROTECT DOWNSTREAM WATER RESOURCES OR STORMWATER INFRASTRUCTURE. SEDIMENT SHALL BE REMOVED FROM ROADS BY SHOVELING OR PICKUP SWEEPING AND SHALL BE TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
13. FROM OCTOBER 15 THROUGH APRIL 1, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 2 DAYS. FROM APRIL 2 TO OCTOBER 14, NO SOILS SHALL REMAIN EXPOSED AND UNWORKED FOR MORE THAN 7 DAYS. SOILS SHALL BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST. LINEAR CONSTRUCTION ACTIVITIES, SUCH AS RIGHT-OF-WAY AND EASEMENT CLEARING, ROADWAY DEVELOPMENT, PIPELINES, AND TRENCHING FOR UTILITIES, SHALL COMPLY WITH THESE REQUIREMENTS. THESE STABILIZATION REQUIREMENTS APPLY TO ALL SOILS ON SITE, WHETHER AT FINAL GRADE OR NOT. THE LOCAL PERMITTING AUTHORITY MAY ADJUST THESE TIME LIMITS IF IT CAN BE SHOWN THAT A DEVELOPMENT SITE'S EROSION OR RUNOFF POTENTIAL JUSTIFIES A DIFFERENT STANDARD.
14. FROM OCTOBER 15 THROUGH APRIL 1, CLEARING, GRADING, AND OTHER SOIL-DISTURBING ACTIVITIES SHALL ONLY BE PERMITTED IF SHOWN TO THE SATISFACTION OF THE LOCAL PERMITTING AUTHORITY THAT THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE TO RECEIVING WATERS WILL BE PREVENTED.
15. SOIL STOCKPILES MUST BE STABILIZED AND PROTECTED WITH SEDIMENT-TRAPPING MEASURES.
16. ALL POLLUTANTS, INCLUDING WASTE MATERIALS AND DEMOLITION DEBRIS, THAT OCCUR ON SITE DURING CONSTRUCTION SHALL BE HANDLED AND DISPOSED OF IN A MANNER THAT DOES NOT CAUSE CONTAMINATION OF STORMWATER. WOODY DEBRIS MAY BE CHOPPED AND SPREAD ON SITE.
17. MAINTENANCE AND REPAIR OF HEAVY EQUIPMENT AND VEHICLES AND OTHER ACTIVITIES WHICH MAY RESULT IN DISCHARGE OR SPILLAGE OF POLLUTANTS TO THE GROUND OR INTO STORMWATER RUNOFF MUST BE CONDUCTED USING SPILL PREVENTION MEASURES, SUCH AS DRIP PANS. REPORT ALL SPILLS TO 911.

18. WATER FROM MOST DEWATERING OPERATIONS SHALL BE DISCHARGED INTO A SEDIMENT TRAP OR POND. CLEAN, NOT-TURBID WATER MAY BE DISCHARGED TO STATE SURFACE WATERS, PROVIDED THE DISCHARGE DOES NOT CAUSE EROSION OR FLOODING. HIGHLY TURBID OR CONTAMINATED DEWATERING WATER FROM CONSTRUCTION EQUIPMENT OPERATION, CLAMSHELL DIGGING, CONCRETE TREMIE POUR, OR WORK INSIDE A COFFERDAM SHALL BE HANDLED SEPARATELY FROM STORMWATER AND PROPERLY DISPOSED.

STREET CONSTRUCTION:

1. ALL CURB, CURB AND GUTTER, STREET GRADES, SIDEWALK GRADES, AND ANY OTHER VERTICAL AND/OR HORIZONTAL ALIGNMENT WILL BE STAKED BY ENGINEERING OR SURVEYING FIRMS CAPABLE OF PERFORMING SUCH WORK.
2. ASPHALT CONCRETE PAVEMENT FOR WEARING COURSE WILL NOT BE PLACED ON ANY TRAVELED WAY BETWEEN OCTOBER 1ST AND APRIL 1ST WITHOUT WRITTEN APPROVAL FROM THE CITY ENGINEER.
3. WHERE NEW ASPHALT JOINS EXISTING, THE EXISTING ASPHALT WILL BE CUT TO A NEAT VERTICAL EDGE AND TACKED WITH ASPHALT EMULSION TYPE CSS-1 IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
4. COMPACTION OF SUBGRADE, ROCK, AND ASPHALT WILL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
5. ALL JOINT (CONTRACTION, CONSTRUCTION, ISOLATION, ETC.) LAYOUT PLANS SHALL BE APPROVED ONE WEEK BEFORE PLACING CONCRETE.
6. FORM AND SUBGRADE INSPECTION BY THE CITY IS REQUIRED BEFORE PLACING CONCRETE. TWENTY-FOUR HOURS' NOTICE IS REQUIRED FOR FORM INSPECTION.
7. TESTING AND SAMPLING FREQUENCIES WILL BE AS DESCRIBED IN THE CURRENT WSDOT STANDARD SPECIFICATIONS AND CHAPTER 4 OF THE EDDS.

STORMWATER CONSTRUCTION:

1. ALL STORM CONVEYANCES AND RETENTION/DETENTION AREAS WILL BE STAKED FOR GRADE AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
2. SPECIAL STRUCTURES, OIL/WATER SEPARATORS, AND OUTLET CONTROLS WILL BE INSTALLED PURSUANT TO PLANS AND MANUFACTURER'S RECOMMENDATIONS.
3. WHERE CONNECTIONS REQUIRE "FIELD VERIFICATIONS", CONNECTION POINTS WILL BE EXPOSED BY CONTRACTOR AND FITTINGS VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUTDOWN NOTICES.
4. ALL STORM LINES AND CATCH BASINS SHALL BE HIGH-VELOCITY CLEANED AND PRESSURE TESTED IN ACCORDANCE WITH DIVISION 7 OF THE STANDARD SPECIFICATIONS PRIOR TO PAVING IN CONFORMANCE WITH THE ABOVE-REFERENCED SPECIFICATIONS. HYDRANT FLUSHING OF LINES IS NOT AN ACCEPTABLE CLEANING METHOD.
5. TESTING OF THE STORM PIPING WILL INCLUDE TELEVISION INSPECTION, COMPATIBLE WITH GRANITE XP SOFTWARE, AT THE CONTRACTOR'S EXPENSE. ADDITIONAL TELEVISION THAT IS DEEMED NECESSARY WILL ALSO BE AT THE CONTRACTOR'S EXPENSE. ALL TELEVISION INSPECTIONS SHALL BE COMPLETED IN THE MANNER AS REQUIRED BY THE PACP. IMMEDIATELY PRIOR TO TELEVISION INSPECTING, ENOUGH WATER WILL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER MANHOLE AND THE LINE IS FLUSHED CLEAN. ACCEPTANCE OF THE LINE WILL BE MADE AFTER THE TELEVISION INSPECTION TAPE HAS BEEN REVIEWED AND APPROVED BY THE INSPECTOR.
6. ALL CATCH BASINS SHALL HAVE A CURB MARKER, ANTI-DUMPING DISC INSTALLED AS SPECIFIED IN THE EDDS.
7. ALL SOLID ROUND CATCH BASIN COVERS SHALL BE CITY OF OLYMPIA DECORATIVE STANDARD (PER STANDARD DRAWING 5-12).
8. ALL SURFACE STORM WATER FACILITIES SHALL HAVE INFORMATIONAL SIGNS INSTALLED ADJACENT TO STREETS, SIDEWALKS AND PATHS.

WATER MAIN CONSTRUCTION:

1. ALL LINES WILL BE CHLORINATED AND TESTED IN CONFORMANCE AMERICAN WATER WORKS ASSOCIATION STANDARDS.
2. ALL WATER MAINS WILL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK. STAKING WILL BE MAINTAINED THROUGHOUT CONSTRUCTION.
3. ALL WATER SYSTEM CONNECTIONS TO SERVE BUILDINGS OR PROPERTIES WITH DOMESTIC POTABLE WATER, FIRE SPRINKLER SYSTEMS, OR IRRIGATION SYSTEMS WILL COMPLY WITH THE MINIMUM BACKFLOW PREVENTION REQUIREMENTS AS ESTABLISHED BY THE WASHINGTON STATE DEPARTMENT OF HEALTH AND THE CITY OF OLYMPIA IN ITS CROSS CONNECTION PROGRAM.
4. THE CITY REQUIRES 10 WORKING DAYS WRITTEN NOTICE TO SCHEDULE SHUTDOWNS. THE WRITTEN NOTICE WILL BE COORDINATED WITH THE CITY INSPECTOR. THE CITY OF OLYMPIA DRINKING WATER OPERATIONS OR CITY INSPECTOR WILL PERFORM THE SHUTDOWN.
5. AT ANY CONNECTION TO AN EXISTING LINE WHERE A NEW VALVE IS NOT INSTALLED, THE EXISTING VALVE MUST BE PRESSURE TESTED TO CITY STANDARDS BY THE CONTRACTOR PRIOR TO CONNECTION. IF AN EXISTING VALVE FAILS TO PASS THE TEST, THE CONTRACTOR WILL MAKE THE NECESSARY PROVISIONS TO TEST THE NEW LINE PRIOR TO CONNECTION TO THE EXISTING SYSTEM OR INSTALL A NEW VALVE.
6. AT ANY WATER MAIN TAP TO EXISTING CITY MAINS WHERE THE CONTRACTOR ENCOUNTERS A COUPLING OR EXISTING ASSEMBLIES, THE CONTRACTOR WILL PROVIDE A MINIMUM OF 18 INCHES OF CLEARANCE FROM COUPLING OR ASSEMBLIES TO EDGE OF TAPPING SLEEVE.
7. ANY WATER MAIN TAP OR CONNECTION WILL BE BLOCKED ACCORDING TO THE CITY OF OLYMPIA STANDARD DRAWINGS.
8. ANY EXCAVATION THAT EXPOSES AN ASBESTOS CEMENT (AC) WATER MAIN OR THE CITY'S 36-INCH WATER TRANSMISSION MAIN SHALL BE BEDDED WITH CONTROLLED DENSITY FILL (CDF) PURSUANT TO THE WSDOT SPECIFICATIONS FOR CDF. AS AN OPTION THE CONTRACTOR MAY CHOOSE TO REPLACE THE AC PIPE AT ANY CROSSING WITH DUCTILE IRON PIPE BENCHED INTO BOTH TRENCH WALLS. THE CONTRACTOR WILL COORDINATE WITH THE CITY INSPECTOR TO HAVE A CITY OF OLYMPIA DRINKING WATER OPERATIONS STAFF MEMBER ON SITE BEFORE CONSTRUCTION BEGINS.
9. BEFORE CUTTING OR REMOVING ANY EXISTING AC PIPE, THE CONTRACTOR WILL SUPPLY THE CITY OF OLYMPIA INSPECTOR A COPY OF THE WORKMAN'S CERTIFICATIONS TO WORK WITH AC PIPE. THE CONTRACTOR WILL CONFORM TO ALL REGULATIONS AND GUIDANCE RELATED TO ASBESTOS WORK PROVIDED BY THE OLYMPIC REGION CLEAN AIR AGENCY.

SANITARY SEWER CONSTRUCTION:

1. IF CONSTRUCTION IS TO TAKE PLACE IN THE COUNTY RIGHT-OF-WAY, THE CONTRACTOR SHALL NOTIFY THE COUNTY AND OBTAIN ALL THE REQUIRED APPROVALS AND PERMITS.
2. THE CITY OF OLYMPIA CONSTRUCTION INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 48 HOURS (TWO WORKING DAYS) IN ADVANCE OF A TAP CONNECTION TO AN EXISTING MAIN. THE INSPECTOR SHALL BE PRESENT AT THE TIME OF THE TAP.
3. ALL SEWER MAINS SHALL BE FIELD STAKED FOR GRADES AND ALIGNMENT BY A LICENSED ENGINEERING OR SURVEYING FIRM QUALIFIED TO PERFORM SUCH WORK. STAKING SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION.
4. WHEN TEMPORARY STREET PATCHES ARE ALLOWED BY THE CITY, COLD MIX ASPHALT SHALL BE PLACED AND COMPACTED TO A MAXIMUM DEPTH OF 2 INCHES. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTENANCE AS REQUIRED BY THE CITY.
5. AFTER BACKFILLING, BUT PRIOR TO PAVING, ALL MAINS AND APPURTENANCES SHALL BE INSPECTED AND APPROVED BY THE CITY OF OLYMPIA CONSTRUCTION INSPECTOR. APPROVAL DOES NOT CONSTITUTE FINAL ACCEPTANCE OF THE SEWER LINE. THE CONTRACTOR SHALL RETAIN THE RESPONSIBILITY TO REPAIR ALL DEFICIENCIES AND FAILURES REVEALED DURING ALL REQUIRED TESTING FOR ACCEPTANCE AND THROUGH THE DURATION OF THE WARRANTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF OLYMPIA FOR THE REQUIRED INSPECTIONS. ANY MAIN OR APPURTENANCE BACKFILLED PRIOR TO INSPECTION SHALL BE RE-EXCAVATED FOR INSPECTION.
6. ALL LINES WILL BE HIGH-VELOCITY CLEANED AND SUBJECTED TO A LOW-PRESSURE AIR TEST PURSUANT TO CURRENT WSDOT STANDARD SPECIFICATIONS AFTER BACKFILLING, BUT PRIOR TO PAVING. HYDRANT FLUSHING OF LINES IS NOT AN ACCEPTABLE CLEANING METHOD.
7. TESTING OF THE SANITARY SEWER MAIN WILL INCLUDE TELEVISION INSPECTION, COMPATIBLE WITH GRANITE XP SOFTWARE, AT THE CONTRACTOR'S EXPENSE. ADDITIONAL TELEVISION THAT IS DEEMED NECESSARY WILL ALSO BE AT THE CONTRACTOR'S EXPENSE. ALL TELEVISION INSPECTIONS SHALL BE COMPLETED IN THE MANNER REQUIRED BY THE PACP. IMMEDIATELY PRIOR TO TELEVISION INSPECTION, ENOUGH WATER WILL BE RUN DOWN THE LINE SO IT COMES OUT THE LOWER MANHOLE AND THE LINE IS FLUSHED CLEAN. ACCEPTANCE OF THE LINE WILL BE MADE AFTER THE TELEVISION INSPECTION TAPE HAS BEEN REVIEWED

- AND APPROVED BY THE CITY INSPECTOR.
8. A TEST OF ALL MANHOLES IN ACCORDANCE WITH OLYMPIA STANDARD IS ALSO REQUIRED. TESTING WILL TAKE PLACE AFTER ALL UNDERGROUND UTILITIES ARE INSTALLED AND COMPACTION OF THE ROADWAY SUBGRADE IS COMPLETED.

IN ADDITION, THE FOLLOWING SPECIFIC NOTES PERTAINING TO STEP SYSTEMS AND LIFT STATIONS AND FORCE MAINS WILL BE INCLUDED WHEN THESE UTILITIES ARE PART OF THE PROJECT.

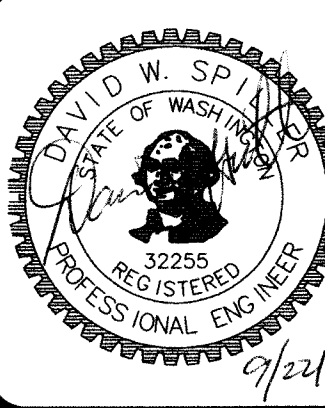
STEP SEWERS:

1. ALL BURIED POWER FOR STEP SYSTEMS WILL BE INSTALLED WITH CONTINUOUS TRACER TAPE INSTALLED 12 INCHES ABOVE THE BURIED POWER. THE MARKER WILL BE PLASTIC NON-BIODEGRADABLE METAL-CORE BACKING MARKED "POWER". TAPE WILL BE FURNISHED BY CONTRACTOR.
2. ALL STEP MAINS WILL BE HYDROSTATICALLY TESTED AT 200 PSI AND ACCORDING TO THE METHODS FOR HYDROSTATIC TESTING OF WATER LINES IN THE CURRENT VERSION OF THE WSDOT SPECIFICATIONS.

LIFT STATION AND FORCE MAIN SEWERS:

1. CONTRACTORS SHALL BE RESPONSIBLE FOR CLEANUP OF ANY DEBRIS IN THE WET WELL, TANKS, VAULTS AND SITE ASSOCIATED WITH THE PROJECT PRIOR TO START UP.
2. PRIOR TO BACKFILL, ALL MAINS, DRY WELL, WET WELL AND VAULTS SHALL BE INSPECTED AND APPROVED BY THE CITY OF OLYMPIA CONSTRUCTION INSPECTOR. APPROVAL SHALL NOT RELIEVE THE CONTRACTOR FOR CORRECTION OF ANY DEFICIENCIES AND/OR FAILURES AS DETERMINED BY SUBSEQUENT TESTING AND INSPECTIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE CITY OF OLYMPIA FOR THE REQUIRED INSPECTIONS.
3. ALL WORK SHALL BE DONE PER NATIONAL ELECTRICAL CODE (NEC) AND THE CITY OF OLYMPIA STANDARDS. THE CITY OF OLYMPIA STANDARDS MAY EXCEED THE NEC. THE DEVELOPER SHALL OBTAIN ALL PERMITS AND ARRANGE INSPECTIONS.
4. THE DEVELOPER SHALL COORDINATE POWER SERVICE WITH SERVING UTILITIES AND MAKE ARRANGEMENTS FOR POWER SERVICE CONNECTION.
5. PRIOR TO TESTING AND START-UP OF THE LIFT STATION, FIVE (5) COPIES OF THE OPERATION AND MAINTENANCE MANUAL, TOGETHER WITH THE NUMBER OF APPROVED COPIES REQUIRED BY THE DEVELOPER, SHALL BE SUBMITTED TO THE CITY FOR REVIEW AND APPROVAL.
6. THE DEVELOPER, AT ITS OWN EXPENSE, WITH THE DESIGN ENGINEER, SHALL ARRANGE FOR AN AUTHORIZED FACTORY-TRAINED REPRESENTATIVE OF THE COMPANY OR COMPANIES SUPPLYING THE VARIOUS ITEMS OF EQUIPMENT TO CHECK THE INSTALLATION, AND TO ADJUST AND TEST THE EQUIPMENT FURNISHED BEFORE THE ACCEPTANCE OF THE WORK BY THE CITY. THE FACTORY REPRESENTATIVE SHALL BE RESPONSIBLE TO CHECK AND RESOLVE ANY UNACCEPTABLE VIBRATION OF THE PUMP ASSEMBLIES. FURTHERMORE, THE DEVELOPER SHALL ASSIST AND INSTRUCT THE CITY'S OPERATING STAFF IN ADJUSTING AND OPERATING THE EQUIPMENT DURING INITIAL START-UP PERIOD. SAID REPRESENTATIVE SHALL BE EXPERIENCED AND KNOWLEDGEABLE OF THE EQUIPMENT BEING TESTED.
7. THE DEVELOPER AT ITS OWN EXPENSE SHALL CONDUCT AN INSTRUCTION PROGRAM FOR UP TO FIVE (5) PERSONNEL DESIGNATED BY THE CITY. DEVELOPER SHALL FURNISH THE SERVICES OF QUALIFIED INSTRUCTORS FROM THE VARIOUS EQUIPMENT MANUFACTURERS. PROGRAM SHALL INCLUDE INSTRUCTION COVERING BASIC SYSTEM OPERATION THEORY, ROUTINE MAINTENANCE AND REPAIR, AND "HANDS ON" OPERATION OF EQUIPMENT. TRAINING SHALL NOT PROCEED UNTIL ALL OPERATION MAINTENANCE MANUALS ARE COMPLETE AND ACCEPTED BY THE CITY.
8. ALL EQUIPMENT SHALL BE TESTED AND DEVELOPER SHALL DEMONSTRATE TO CITY PERSONNEL THAT PROPER OPERATION AND CAPACITY HAVE BEEN FULLY OBTAINED. THE CITY WILL NOT ACCEPT ANY FACILITY UNTIL SUCCESSFUL FULL OPERATION OF ALL COMPONENTS HAS BEEN DEMONSTRATED BY THE DEVELOPER.
9. IT IS THE DEVELOPER'S RESPONSIBILITY TO CONSTRUCT AND START-UP A COMPLETE AND TROUBLE-FREE SYSTEM. THE DEVELOPER SHALL BE RESPONSIBLE FOR CORRECTING ALL DESIGN ERRORS AND/OR CONSTRUCTION DEFECTS THAT ARE DISCOVERED IN THE START-UP OR DURING THE WARRANTY PERIOD OF THE AGREEMENT WITH THE CITY.
10. LEFT STATION AND GENERATOR, SITE, DRIVEWAY, ACCESS, CONCRETE AREAS, LIGHTING AND WATER SERVICE SHALL ALL BE COMPLETED PRIOR TO START UP REQUEST AND INSPECTION.
11. TELEMETRY SHALL CONSIST OF A RUGID PLC AND OTHER ACCESSORIES LISTED IN SECTION 7D.030. PRIOR TO ORDERING THE ABOVE EQUIPMENT, THE DEVELOPER WILL CONTACT THE PUMP STATIONS SUPERVISOR, CITY OF OLYMPIA PUBLIC WORKS, FOR COMPLETE ORDERING SPECIFICATIONS FOR THE ABOVE TELEMETRY. NOMINAL LEAD TIME IS 12 WEEKS.
12. SPARE PARTS SHALL BE PROVIDED FOR THE STATION AT TIME OF START UP ACCEPTANCE.
- ONE SET MECHANICAL SEALS, FILTERS AND VULUTE GASKETS.
  - ONE SET OF PUMP WEAR RINGS.
  - FOUR SETS OF OPERATION AND MAINTENANCE MANUALS.
  - A LIST OF THE NEAREST DEALERS FOR SPARE PARTS AND REPAIR WILL BE PROVIDED.
- ADDITIONALLY, ANY SPECIAL TOOLS SPECIFIC TO THE PUMP MANUFACTURER SHALL BE PROVIDED TO THE CITY OF OLYMPIA AT START UP.
19. A 6-INCH THICK CONCRETE COLLAR SHALL BE INSTALLED AROUND ALL VALVES. STANDARD DRAWING 6-12, STANDARD VALVE BOX, DETAIL SHALL BE USED.
20. ALL FORCE MAINS SHALL BE HYDROSTATIC TESTED AT 200 PSI AND ACCORDING TO THE METHODS FOR HYDROSTATIC TESTING OF WATER LINES IN THE CURRENT VERSION OF THE WSDOT SPECIFICATIONS.

DESIGNED BY: LDT  
DRAWN BY: MAM/DT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1"=20'  
Y



HATTON GODAT  
ENGINEERS  
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OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
hattonpantier.com

REVISIONS: DATE:  
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TF# 91005301000, 91005201000, 91005502000  
VIEWS ON 5TH  
410 5TH AVE SW OLYMPIA WA 98502  
CITY STANDARD NOTE SHEET  
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 16 NORTH, RANGE 2 WEST, WA.

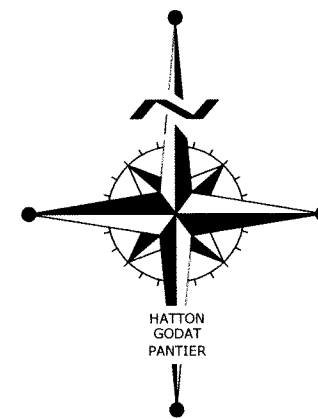
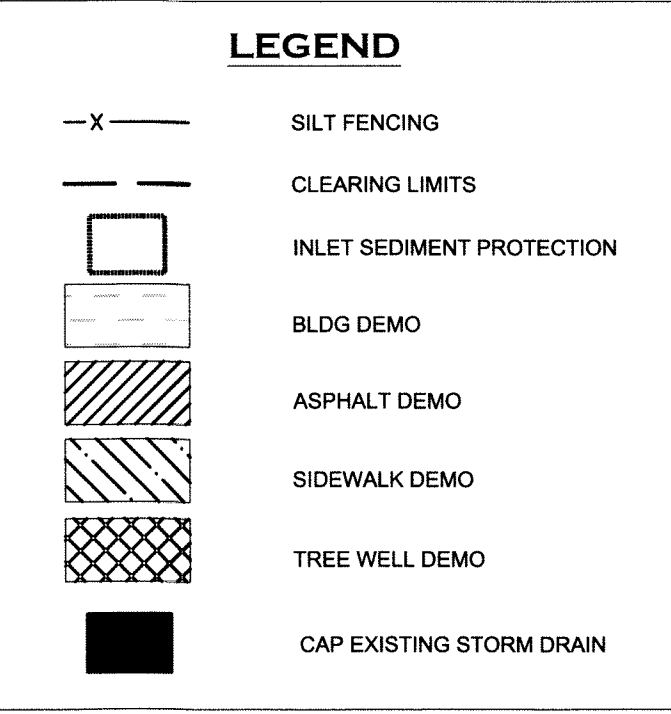
AGENCY NO. 16.9069  
SHEET: 2 OF 14  
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INDEX: 17-010-det.dwg  
JOB: 17-010




APPROVED FOR CONSTRUCTION


BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_

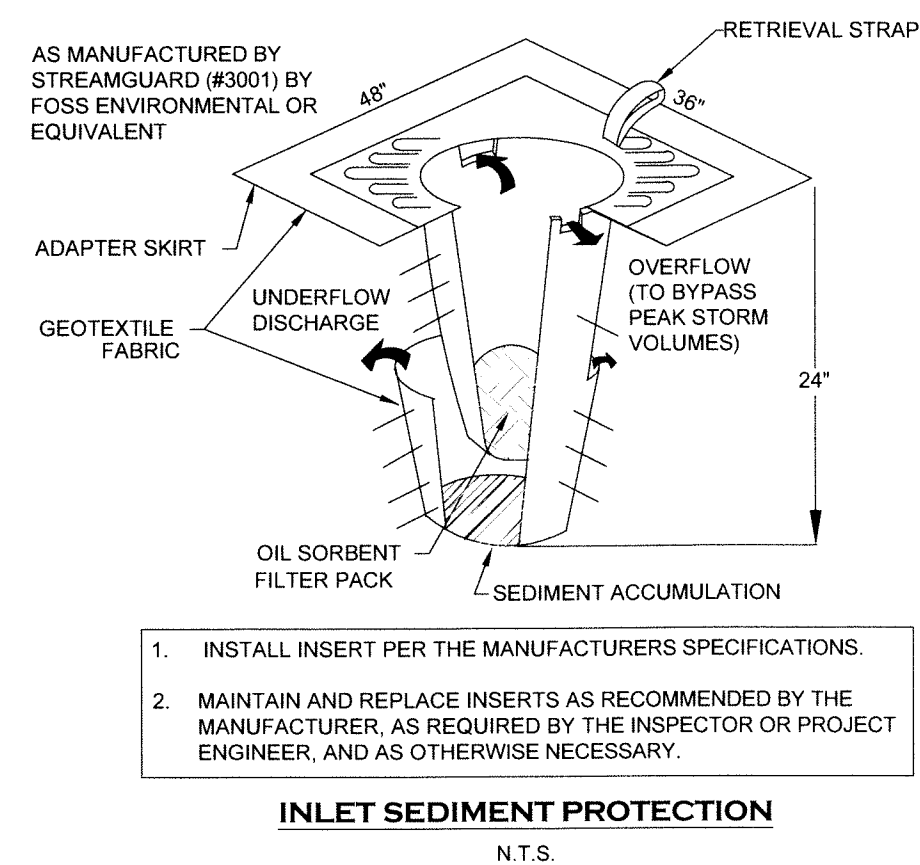




 <b>VERTICAL DATUM</b>	 <b>CITY OF OLYMPIA</b> 
<p>THURSTON COUNTY HIGH PRECISION            CONTROL POINT NO. 4#BRIDGE            3" T.C. BRASS CAP IN SIDEWALK            OLYMPIA/4th AVE BRIDGE. POINT FALLS IN CONC.            SIDEWALK. 3' N OF N FACE OF CONC. RAIL.            1.8' EAST OF SEAM OVER SE "ENDWALL". 63.5' WEST OF SE            CONC. RAIL. SOUTH SIDE OF BRIDGE.            NAVD 88 ELEVATION=20.00</p>	<p><b>MERIDIAN (HORIZONTAL DATUM)</b></p> <p>CITY OF OLYMPIA COORDINATE SYSTEM            BASED ON MONUMENT LINE OF SYLVESTER            ST. SE AS SHOWN EQUALS NORTH "40410"            WEST</p>



SCALE: 1" = 20'



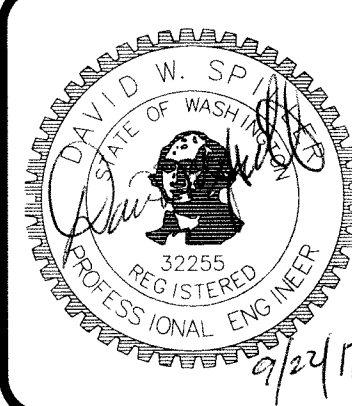
- INLET PROTECTION NOTES:**
1. PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLETS, THAT THE OPEN FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHALL ABUT. THE HEIGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS. BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4 INCHES, AND 12 INCHES WIDE. THE ROW OF BLOCKS SHALL BE AT LEAST 12 INCHES BUT NO GREATER THAN 24 INCHES.
  2. PLACE WIRE MESH OVER THE OUTSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCK TO PREVENT STONE FROM BEING WASHED THROUGH THE BLOCKS USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH  $\frac{1}{2}$  - INCHES OPENINGS.
  3. PILE STONE AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE  $\frac{3}{4}$  TO 3-INCH GRAVEL.
  4. PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH OF THE INLET STRUCTURE. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
  5. PLACE  $\frac{3}{4}$  - INCH GRAVEL OVER THE WIRE MESH. THE DEPTH OF STONE SHALL BE AT LEAST 12 - INCHES OVER THE ENTIRE INLET OPENING. EXTEND THE STONE BEYOND THE INLET OPENING AT LEAST 18 - INCHES ON ALL SIDES.
  6. IF THE STONE FILTER BECOMES CLOGGED WITH SEDIMENT, THE STONES MUST BE PULLED AWAY FROM THE INLET AND CLEANED OR REPLACED.

NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_

DESIGNED BY: LDT  
DRAWN BY: MJMLDT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1" = 20'  
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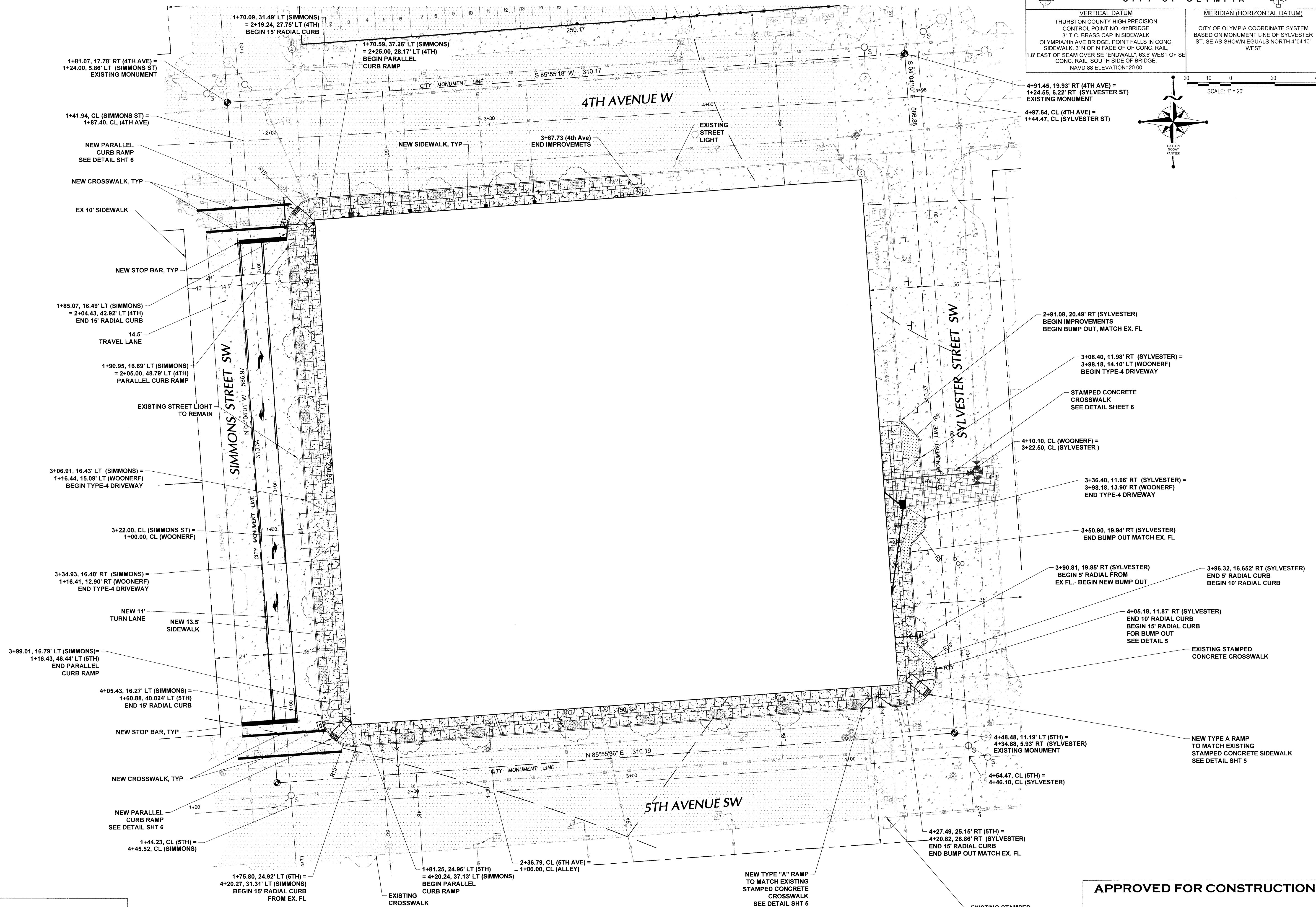
**HATTON** **GODAT** **PANTIER**  
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OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
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REVISIONS. DATE.

TP# 9.1005301000, 9.1005201000, 9.1005502000  
**VIEWS ON 5TH**  
 410 5TH AVE SW OLYMPIA WA 98502  
**EROSION CONTROL & DEMOLITION PLAN**  
 A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF  
 SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

AGENCY NO. 16.9069  
SHEET: 3 OF 14  
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INDEX: 17-010-  
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JOB: 17-010





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SCALE: H 1" = 20'  
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410 5TH AVE SW OLYMPIA WA 98502

FRONTAGE IMPROVEMENTS

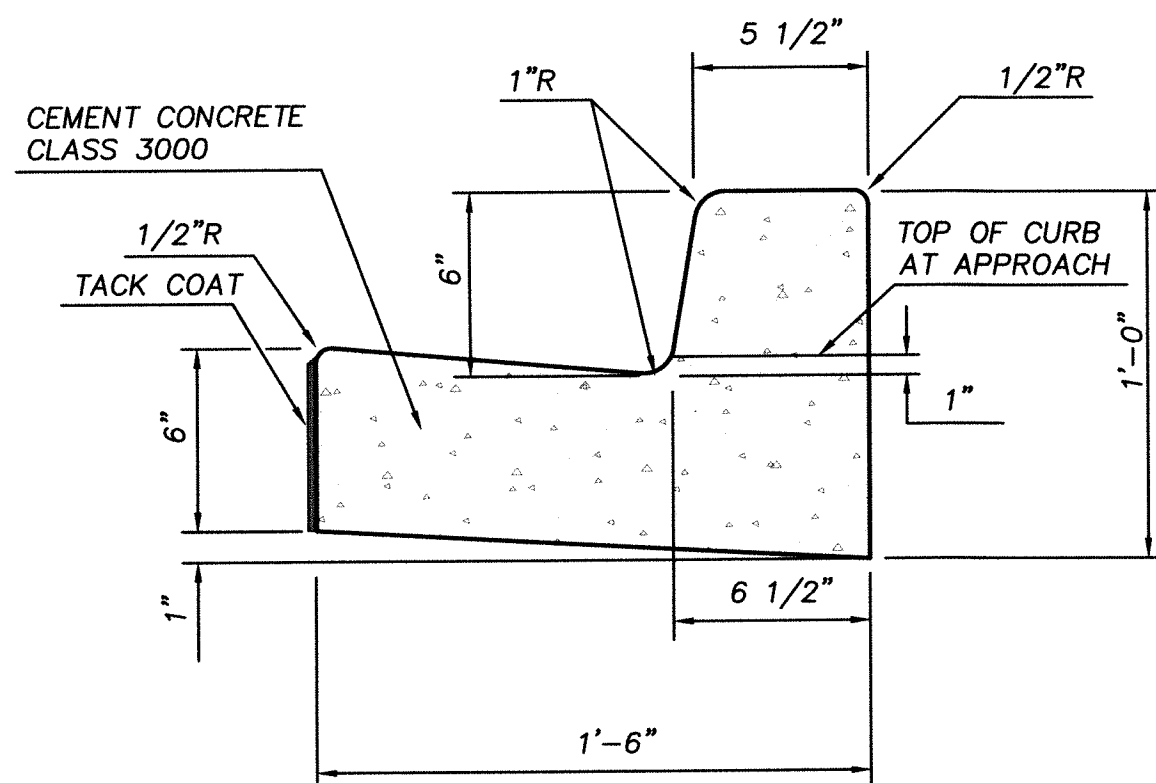
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.W.

TOPOGRAPHIC NOTE:  
THE EXISTING TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS  
HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION  
FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED  
TO BE RELIABLE, HGP CANNOT ENSURE ITS ACCURACY AND THUS  
IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT  
INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY  
HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A  
RESULT.

NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

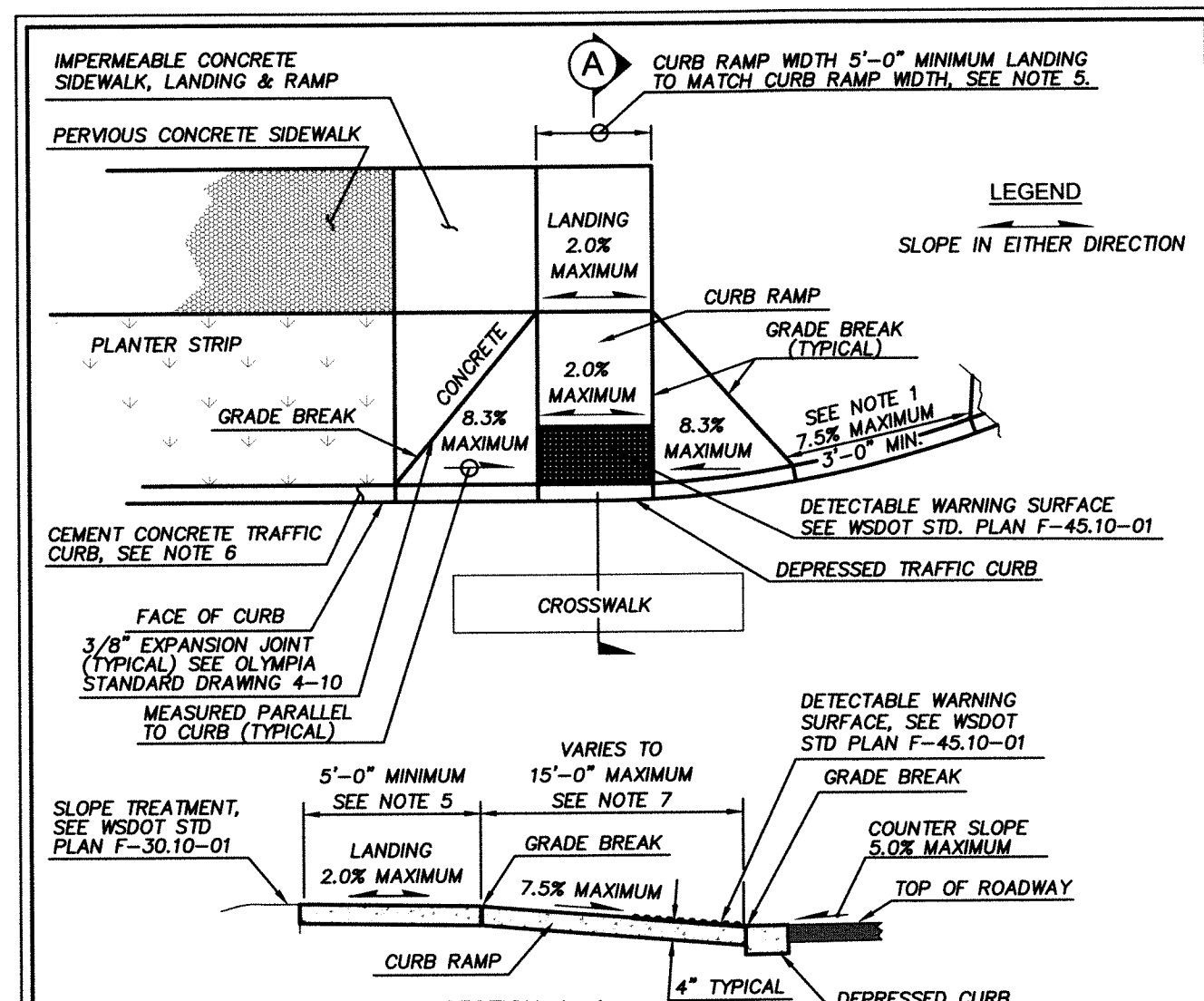
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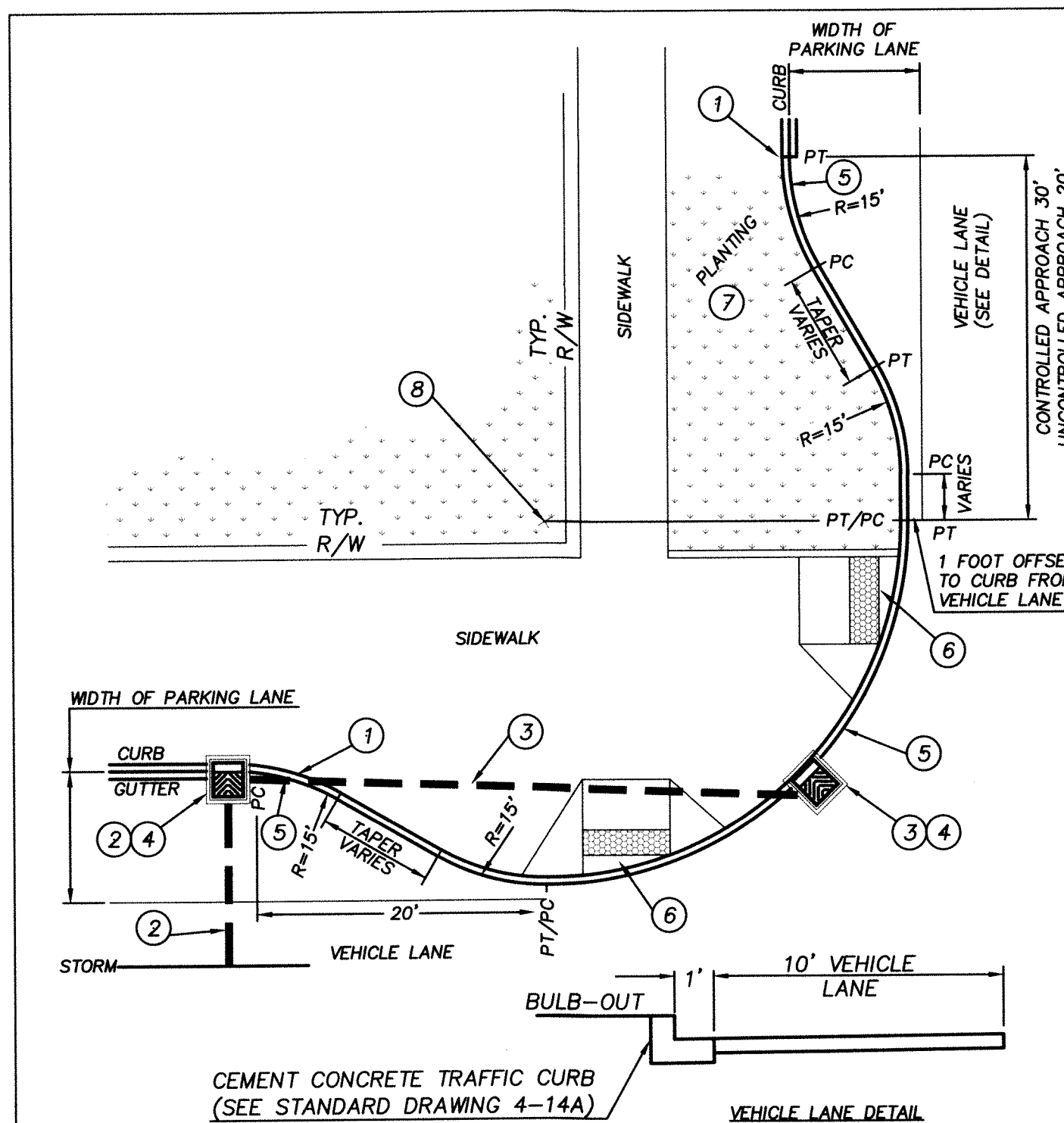
- NOTES:
1. APPROVAL OF CITY ENGINEER REQUIRED.
  2. CANNOT BE INSTALLED ADJACENT TO BIKE LANE. USE CEMENT CONCRETE TRAFFIC CURB (CITY OF OLYMPIA STANDARD DRAWING 4-14) INSTEAD.
  3. REFER TO EDDS CHAPTER 4, STREET CLASSIFICATIONS FOR CURB AND GUTTER PLACEMENT.
  4. SEE ALSO CITY COMPREHENSIVE PLAN - BIKE PLAN - 6-2.
  5. EXPANSION JOINT MATERIAL TO BE 3/8" THICK PREMOLDED JOINT FILLER FULL THICKNESS OF CONCRETE SPACING.
  6. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	9/1/2015	CEMENT CONCRETE CURB & GUTTER	4-14A
CITY ENGINEER			



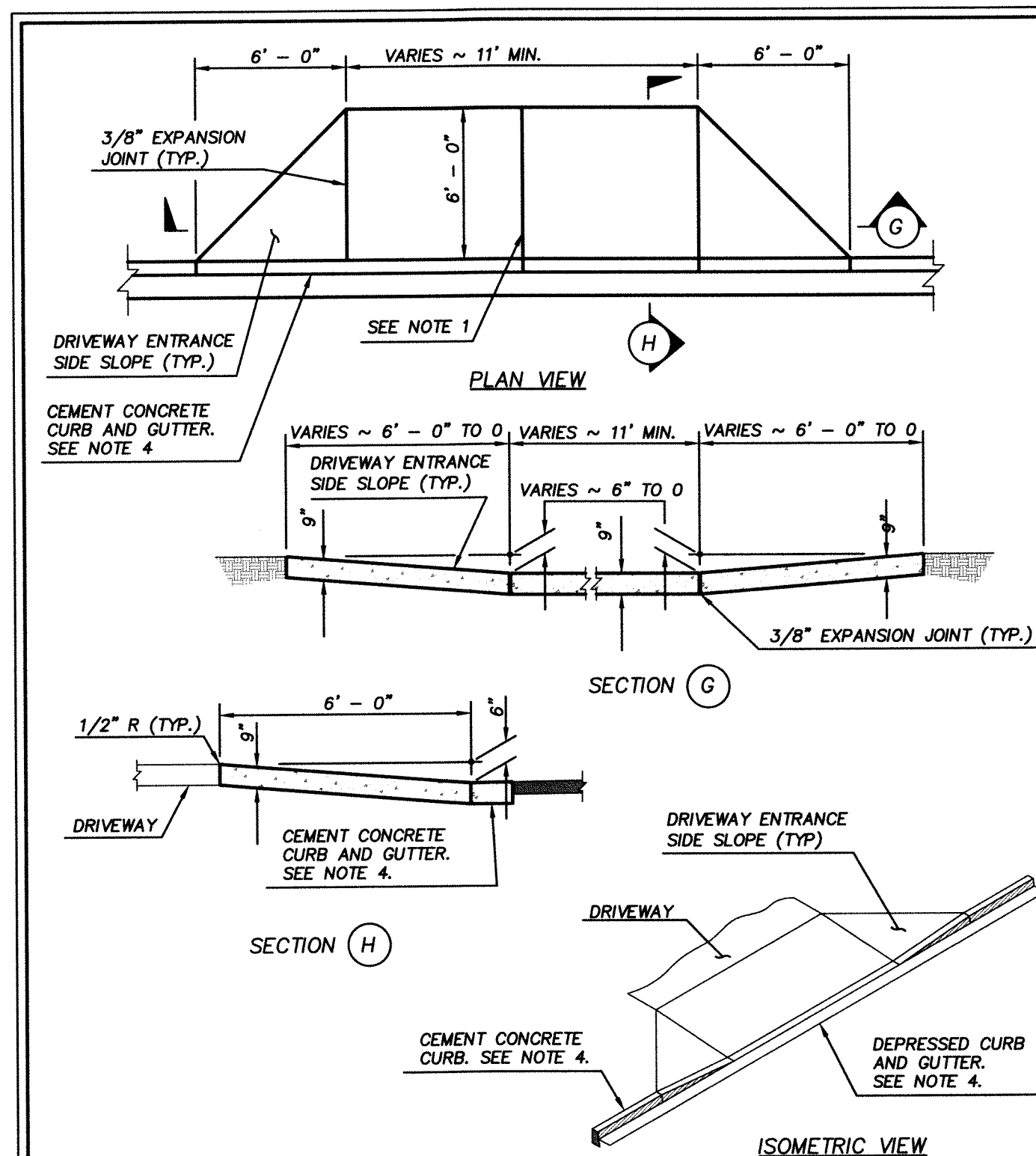
- NOTES:
1. ACCESS RAMPS SHOULD BE CONSTRUCTED TO MINIMIZE PEDESTRIAN CROSSING DISTANCES, AND POSITION PEDESTRIANS WHERE THEY CAN BEST BE SEEN BY ONCOMING TRAFFIC. CURB RAMP ORIENTATION WILL ALIGN PEDESTRIANS PARALLEL WITHIN THE LATERAL EXTENSION LINES OF THE SIDEWALK. INTERSECTION RADIUS LESS THAN 35' WILL USE TWO PERPENDICULAR CURB ACCESS RAMPS PER CORNER. WHERE INTERSECTION CORNERS ARE OFF-SET, CURB ACCESS RAMPS WILL ORIENTATE DIAGONALLY TO THE OPPOSING CURB ACCESS RAMP. LANDING BETWEEN ACCESS RAMPS WILL NOT BE LESS THAN 5' WITH A SLOPE NO GREATER THAN 2.0% CENTER AND DIRECTION OF RAMP SHALL BE LOCATED WITHIN CROSSWALK LINES AS CLOSE AND PARALLEL TO CROSSWALK CENTERLINE AS POSSIBLE. SEE OLYMPIA STANDARD DRAWING 4-10.
  2. GRADE BREAKS AT THE TOP AND BOTTOM OF THE CURB RAMP WILL BE PERPENDICULAR TO THE DIRECTION OF THE RAMP. ANY TRIANGLE LANDING BETWEEN THE GRADE BREAK AND THE CURB WILL BE 2.0% MAXIMUM SLOPE. THE ENTIRE LENGTH OF THE GRADE BREAK BETWEEN THE TWO ADJACENT SURFACE PLANES SHALL BE FLUSH.
  3. PLACED JUNCTION BOXES, ACCESS COVERS, OR OTHER APPURTENANCES IN CURB RAMP SHALL BE ADA COMPLIANT. DO NOT PLACE GRATING IN FRONT OF OR IN ANY PART OF THE CURB RAMP OR LANDING.
  4. CURB RAMP LANDING, AND FLARES SHALL RECEIVE BROOM FINISH. SEE WSDOT STANDARD SPECIFICATIONS 6-14.
  5. CURB RAMP WIDTH AND LANDINGS MAY BE REDUCED TO 4'-0" WITH APPROVAL FROM CITY ENGINEER.
  6. USE OLYMPIA STANDARD DRAWING 4-14 WHEN BICYCLE LANE IS PRESENT OR PLANNED; OLYMPIA STANDARD DRAWING 4-14A WHEN BICYCLE LANE IS NOT PRESENT OR PLANNED.
  7. THE CURB RAMP MAXIMUM RUNNING SLOPE SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET TO AVOID CHASING THE SLOPE INDEFINITELY WHEN CONNECTING TO STEEP GRADES. WHEN APPLYING THE 15 FOOT MAXIMUM LENGTH THE RUNNING SLOPE OF THE CURB RAMP SHALL BE AS FLAT AS FEASIBLE. CURB RAMP SLOPE INCLUDING TOLERANCE NOT TO EXCEED 8.3%.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	12/11/2015	PERPENDICULAR CURB RAMP TYPE A	4-12A
CITY ENGINEER			



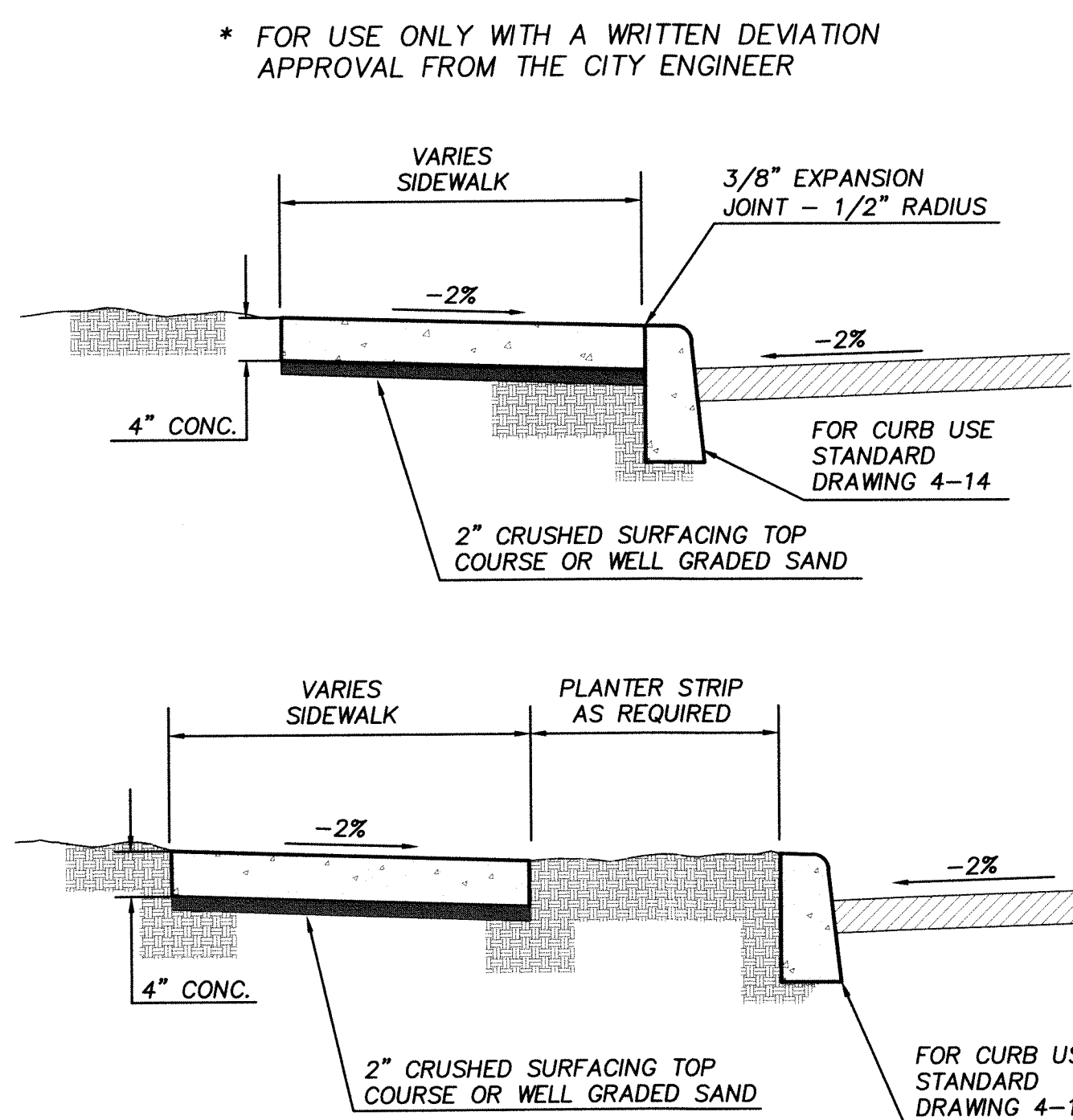
- NOTES:
1. SAW CUT AND REMOVE EXISTING CONCRETE CURB OR SURFACE.
  2. IF EXISTING STORM DRAINAGE LINE EXISTS INSTALL 12" STORM SEWER ON THE UPHILL SIDE OF ROUNDED CORNER AS NEEDED FOR DRAINAGE. MAINTAIN 2" MINIMUM COVER OVER PIPE. GRADE TO DRAIN.
  3. IF NO STORM DRAINAGE LINE EXISTS INSTALL 12" STORM SEWER MAINTAIN 2" OF MINIMUM COVER OVER STORM SEWER PIPE. STORM PIPE SLOPE TO MATCH GUTTER GRADE.
  4. CATCH BASIN TYPE 1L TYP. (SEE WSDOT STANDARD PLAN B-5.40-00) HOODED CATCH BASIN FRAME & GRATE (SEE CITY OF OLYMPIA STANDARD DRAWINGS 5-9 AND 5-9A).
  5. CEMENT CONCRETE TRAFFIC CURB (SEE CITY OF OLYMPIA STANDARD DRAWING 4-14).
  6. PERPENDICULAR CURB RAMP (SEE CITY OF OLYMPIA STANDARD DRAWING 4-12A OR 4-12B).
  7. 1" DEEP TYPE C TOP SOIL FOR LANDSCAPING.
  8. RADIUS VARIES, SEE EDDS CHAPTER 4, TABLE 2 - INTERSECTION RADII.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	8/10/2015	ADJACENT TO VEHICLE LANE	4-13A
CITY ENGINEER			



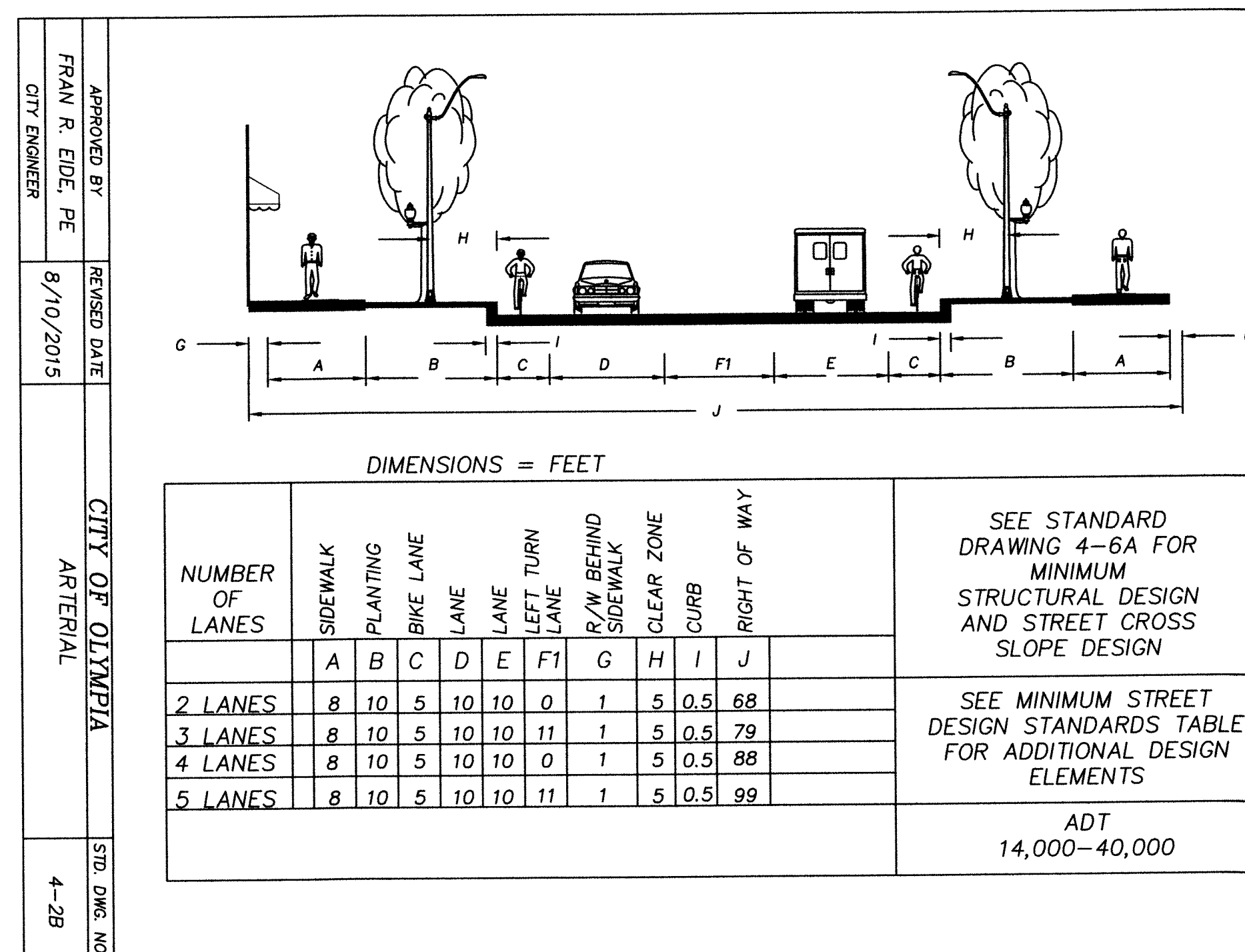
- NOTES:
1. WHEN THE DRIVEWAY WIDTH EXCEEDS 15 FEET, CONSTRUCT A FULL DEPTH EXPANSION JOINT WITH 3/8" JOINT FILLER ALONG THE DRIVEWAY CENTERLINE. CONSTRUCT EXPANSION JOINTS PARALLEL WITH THE CENTERLINE AS REQUIRED AT 15' MAXIMUM SPACING WHEN DRIVEWAY WIDTHS EXCEED 30'.
  2. FORM AND SUBGRADE INSPECTION REQUIRED BEFORE PLACING CONCRETE.
  3. BROOM FINISH LONGITUDINALLY WITH LIGHT BROOM FINISH INCLUDING CURB FACE.
  4. USE STANDARD DRAWING 4-14 UNLESS MATCHING EXISTING GUTTER. DO NOT INSTALL GUTTER ON ARTERIALS, MAJOR COLLECTORS OR WHERE BICYCLE LANES ARE PRESENT OR PLANNED.
  5. DRIVEWAY APPROACHES SHALL BE REINFORCED WITH WELDED-WIRE FABRIC (WWF).

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	6/1/2015	CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 4	4-7D
CITY ENGINEER			



- NOTES:
1. FOR JOINTS AND SCORING, SEE OLYMPIA STANDARD DRAWING 4-10.
  2. CONCRETE DRIVEWAYS REQUIRE A MINIMUM DEPTH OF 9".
  3. WHEN CHECKED WITH A 10 FOOT STRAIGHTEDGE, GRADE SHALL NOT DEVIATE MORE THAN 1/8 INCH, AND ALIGNMENT SHALL NOT VARY MORE THAN 1/4 INCH.

APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	12/17/2015	IMPERMEABLE CONCRETE SIDEWALK *	4-9C
CITY ENGINEER			

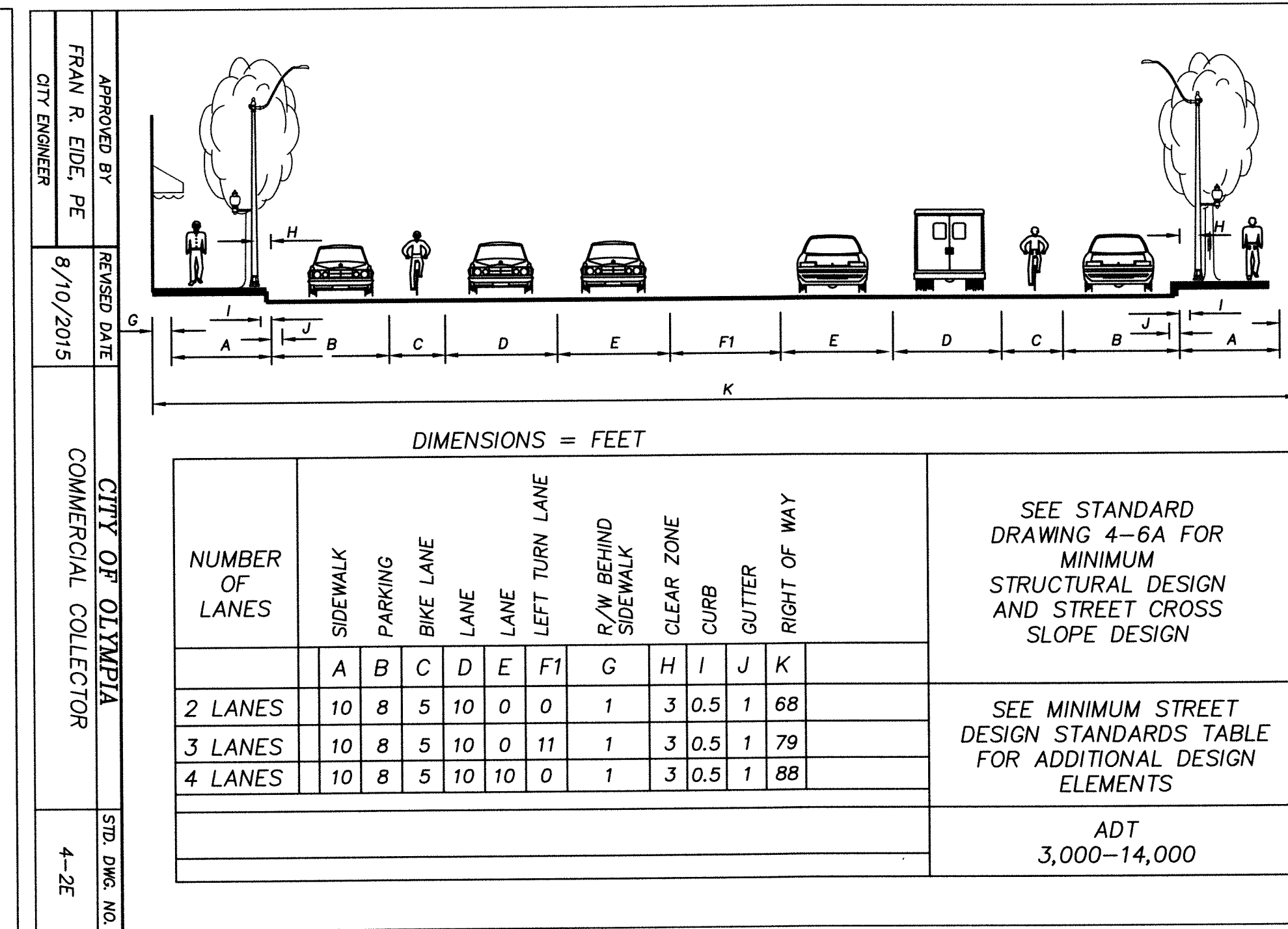


NUMBER OF LANES	SIDEWALK	PLANTING	BIKE LANE	LANE	LANE	LEFT TURN LANE	R/W BEHIND SIDEWALK	CLEAR ZONE	CURB	RIGHT OF WAY
2 LANES	8	10	5	10	10	0	1	5	0.5	68
3 LANES	8	10	5	10	10	11	1	5	0.5	79
4 LANES	8	10	5	10	10	0	1	5	0.5	88
5 LANES	8	10	5	10	10	11	1	5	0.5	99

SEE STANDARD DRAWING 4-6A FOR MINIMUM STRUCTURAL DESIGN AND STREET CROSS SLOPE DESIGN

SEE MINIMUM STREET DESIGN STANDARDS TABLE FOR ADDITIONAL DESIGN ELEMENTS

ADT 14,000-40,000



NUMBER OF LANES	SIDEWALK	PARKING	BIKE LANE	LANE	LANE	LEFT TURN LANE	R/W BEHIND SIDEWALK	CLEAR ZONE	CURB	GUTTER	RIGHT OF WAY
2 LANES	10	8	5	10	0	0	1	3	0.5	1	68
3 LANES	10	8	5	10	0	11	1	3	0.5	1	79
4 LANES	10	8	5	10	10	0	1	3	0.5	1	88

SEE STANDARD DRAWING 4-6A FOR MINIMUM STRUCTURAL DESIGN AND STREET CROSS SLOPE DESIGN

SEE MINIMUM STREET DESIGN STANDARDS TABLE FOR ADDITIONAL DESIGN ELEMENTS

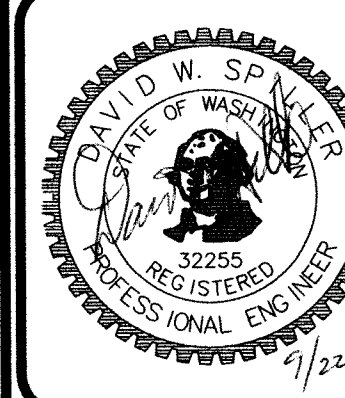
ADT 3,000-14,000

APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_

DESIGNED BY: LDT  
DRAWN BY: MUMDI  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1"=20'  
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hatterpantier.com

REVISIONS:  
DATE:

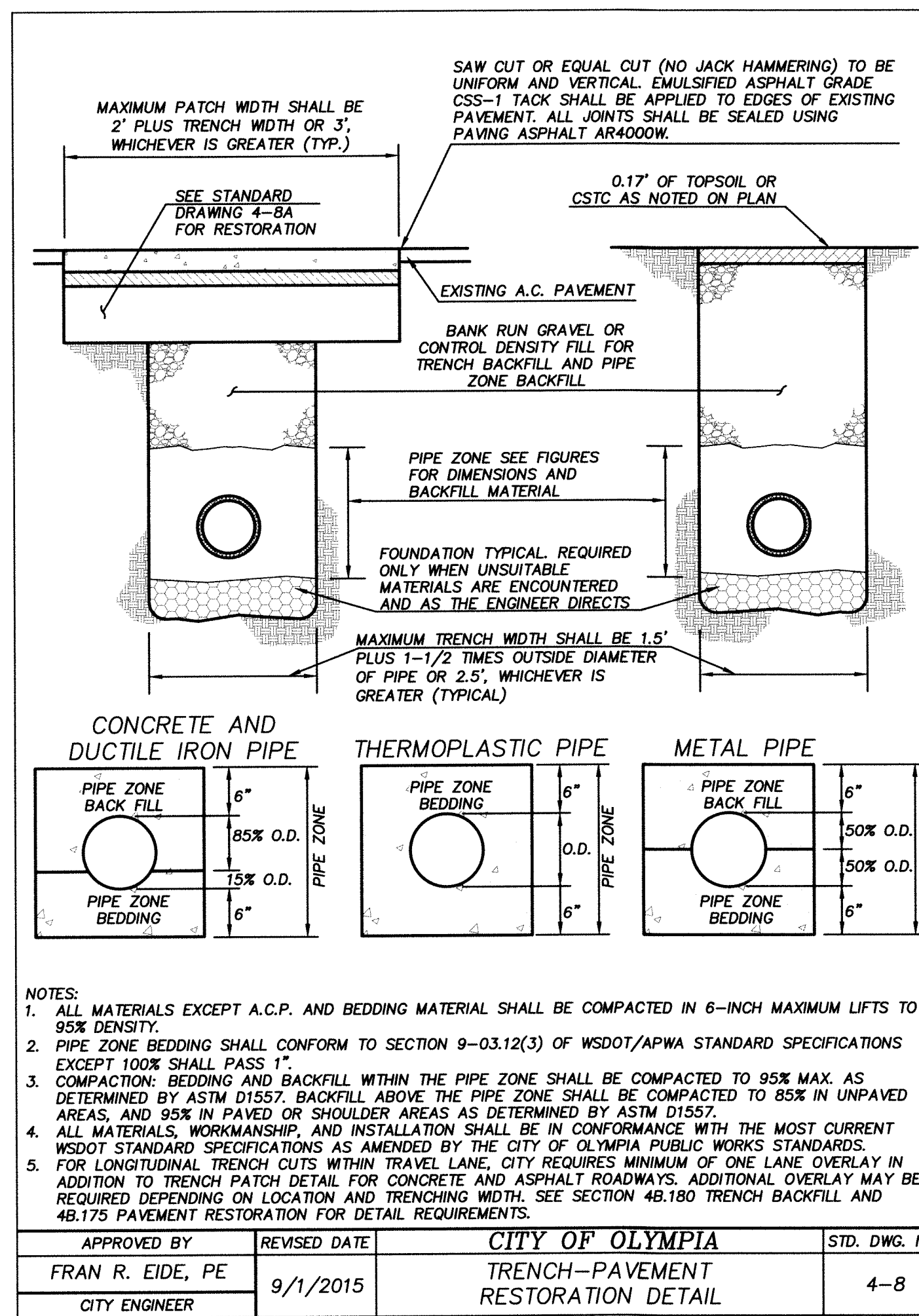
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VIEWS ON 5TH  
410 5TH AVE SW OLYMPIA WA 98502  
STREET DETAILS I  
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

AGENCY NO. 16.9069  
SHEET: 5 OF 14  
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INDEX: 17-010-del.dwg  
JOB: 17-010

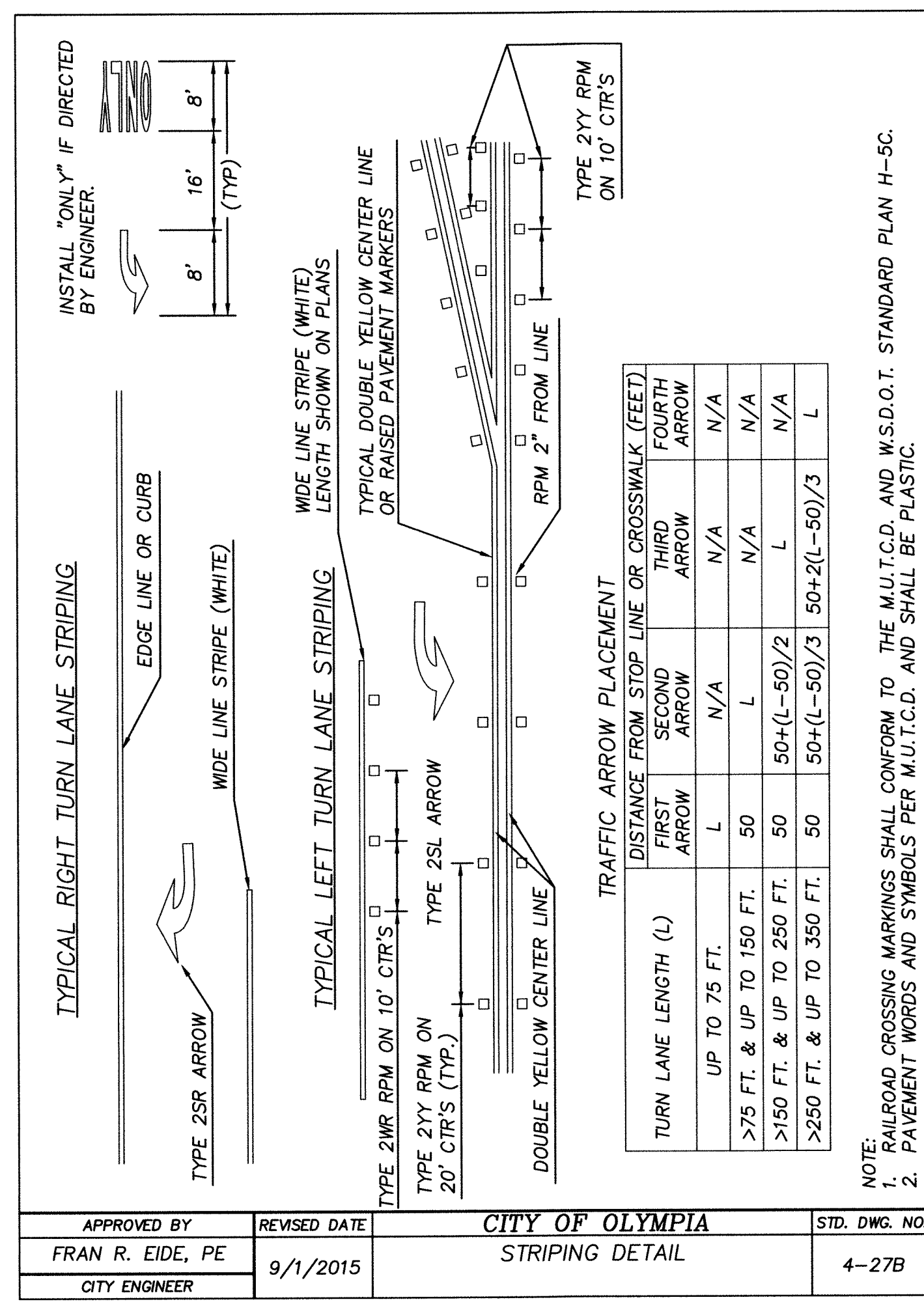


<p align="center"><b>TYPICAL CENTERLINE PAVEMENT MARKING DETAIL</b></p>		<p align="center"><b>TYPICAL LANE STRIPING</b></p>	<p align="center"><b>TYPICAL 2Y R.P.M. DETAIL</b></p>
<p>SEE NOTE 2 FOR RPM SPACING ON CURVE</p>		<p>NOTES:</p> <ol style="list-style-type: none"> <li>1. RAILROAD CROSSING MARKINGS, WHERE APPLICABLE, SHALL CONFORM TO THE MUTCD AND WSDOT STANDARD PLAN M-11.10-01. THE "STANDARD SYMBOL" SHALL BE USED.</li> <li>2. RAISED PAVEMENT MARKERS (RPM), TYPES 2Y, 2Y AND 2WR SHALL BE SPACED AT 20 FOOT INTERVALS ON HORIZONTAL CURVES OF RADIUS 1000 FEET OR LESS, OR AS DIRECTED BY THE ENGINEER.</li> </ol>	
<p>APPROVED BY</p> <p>FRAN R. EIDE, PE</p> <p>CITY ENGINEER</p>	<p>REVISED DATE</p> <p>9/1/2015</p>	<p align="center"><b>CITY OF OLYMPIA</b></p> <p align="center"><b>STRIPING DETAIL</b></p>	<p>STD. DWG. NO.</p> <p align="center">4-27A</p>

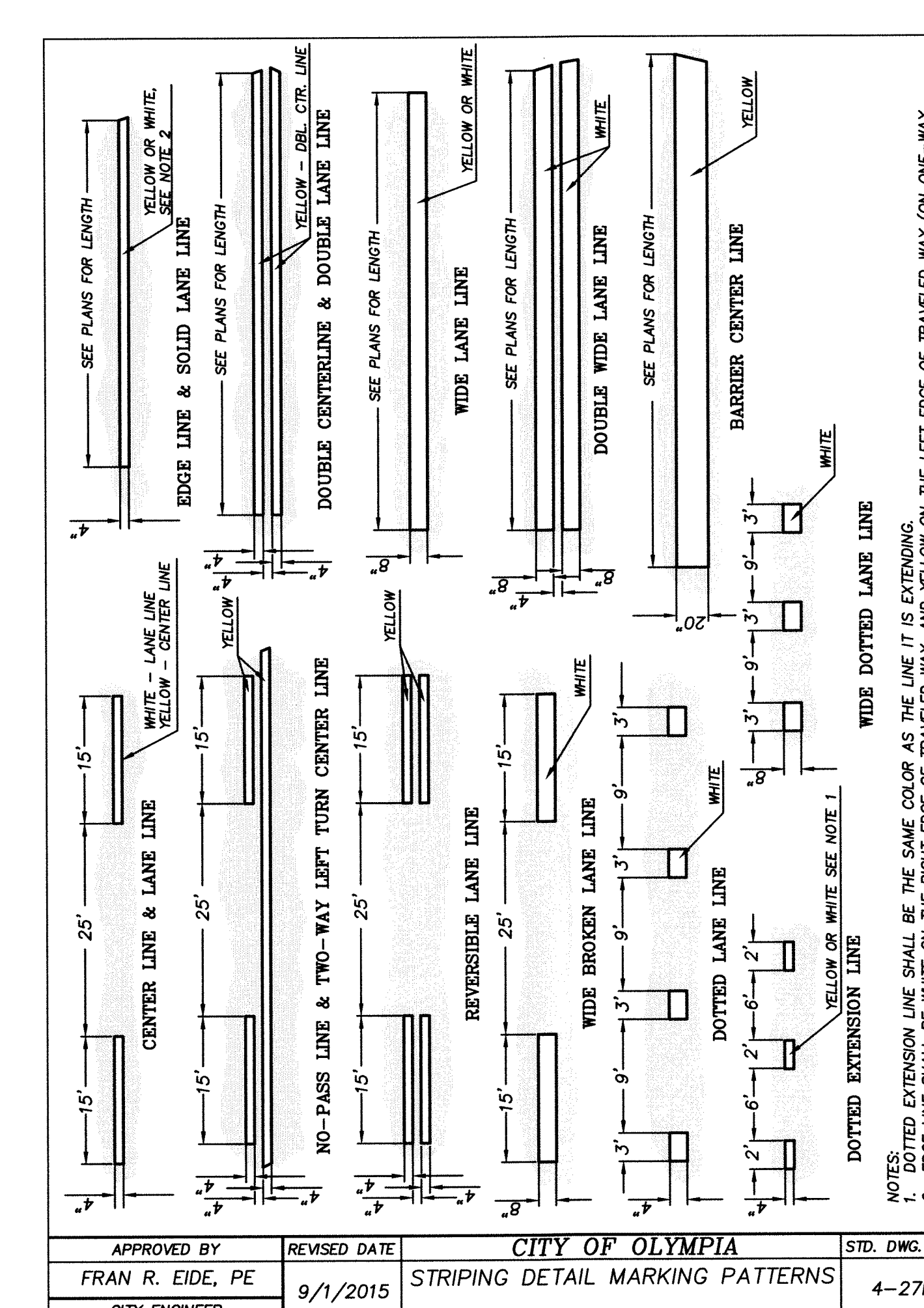
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FRAN R. EIDE, PE	9/1/2015	STRIPING DETAIL	4-27A
CITY ENGINEER			



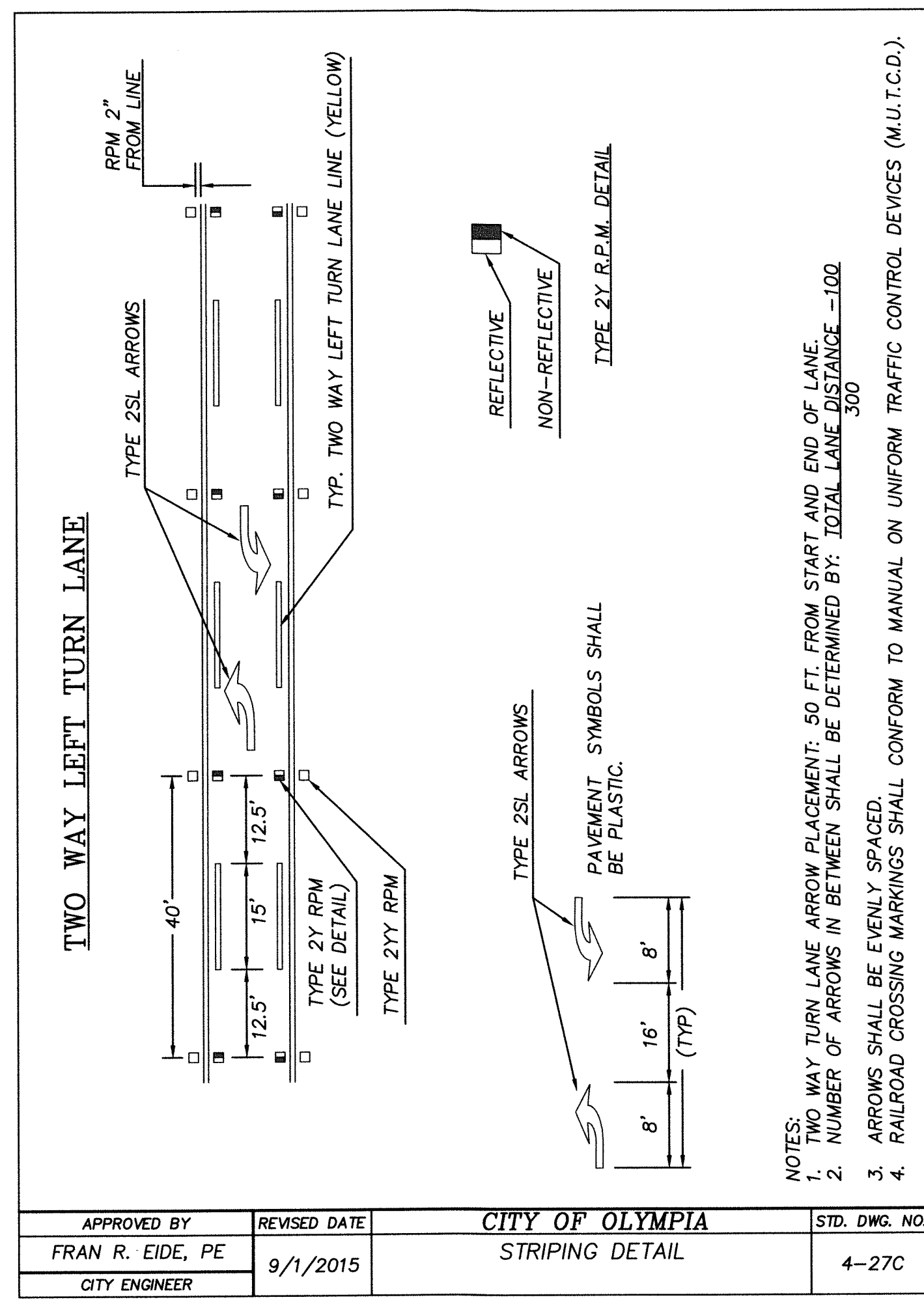
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FRAN R. EIDE, PE	9/1/2015	TRENCH-PAVEMENT RESTORATION DETAIL	4-8
CITY ENGINEER			



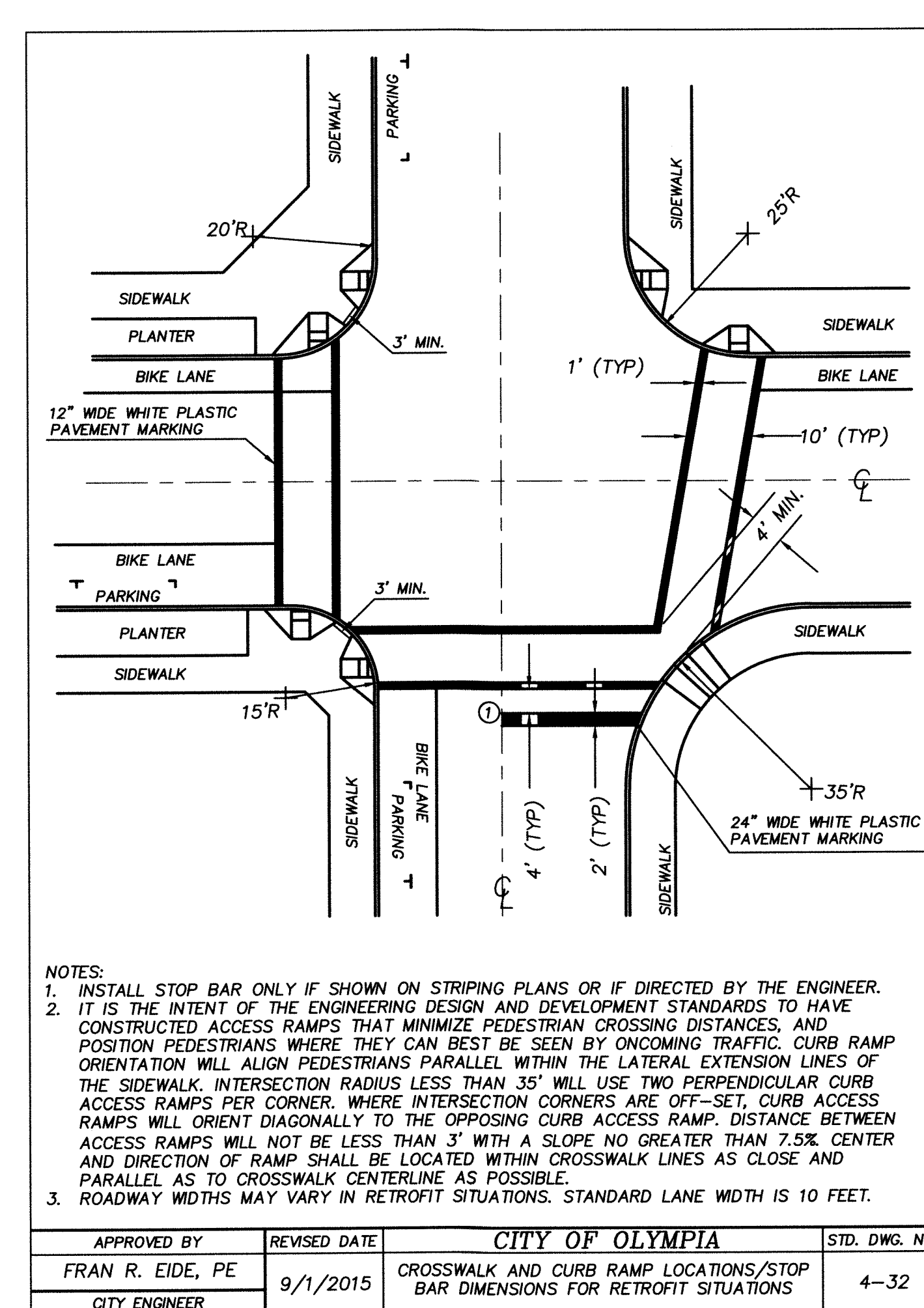
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	9/1/2015	STRIPING DETAIL	4-27B
CITY ENGINEER			



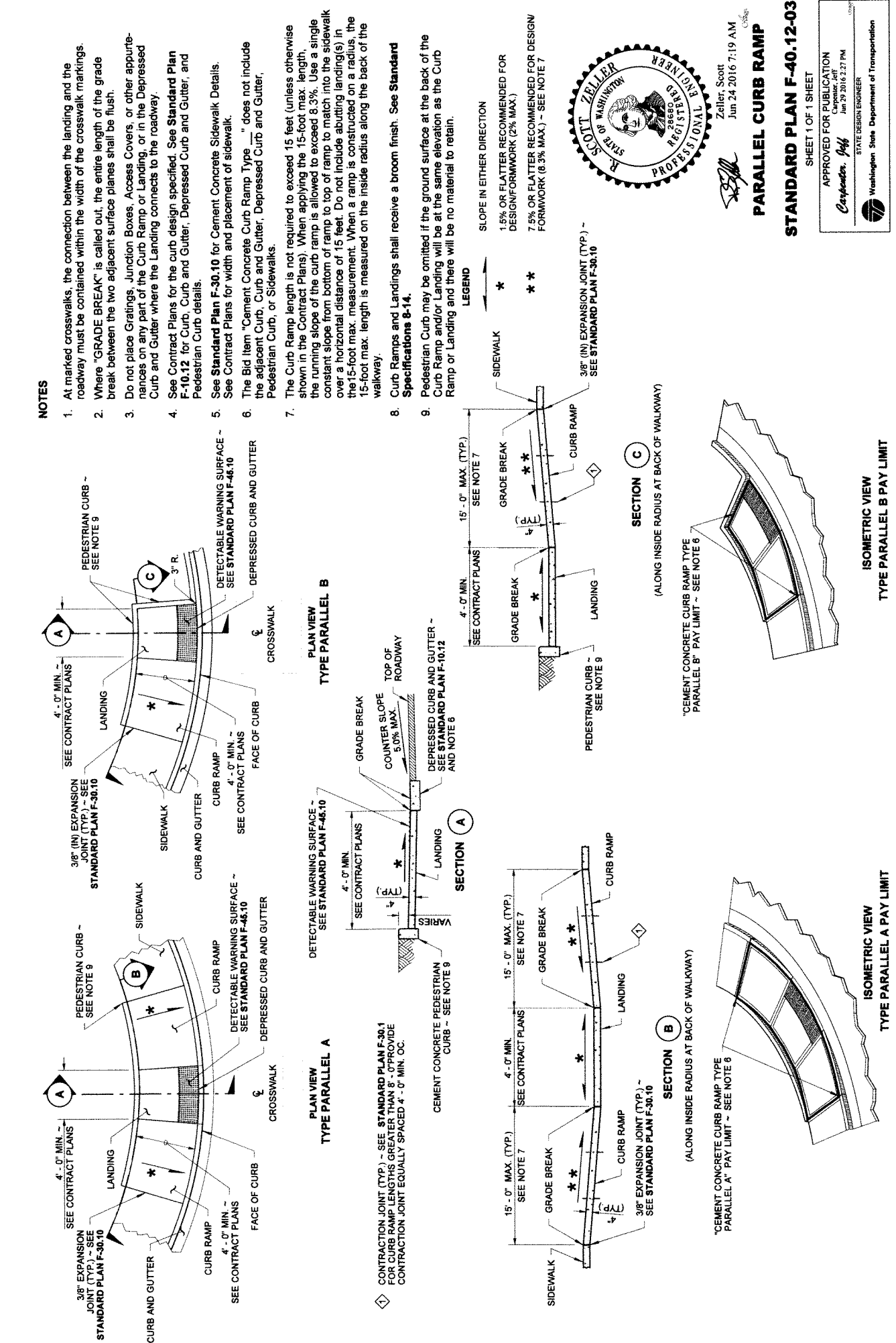
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FRAN R. EIDE, PE	9/1/2015	STRIPING DETAIL MARKING PATTERNS	4-27
CITY ENGINEER			



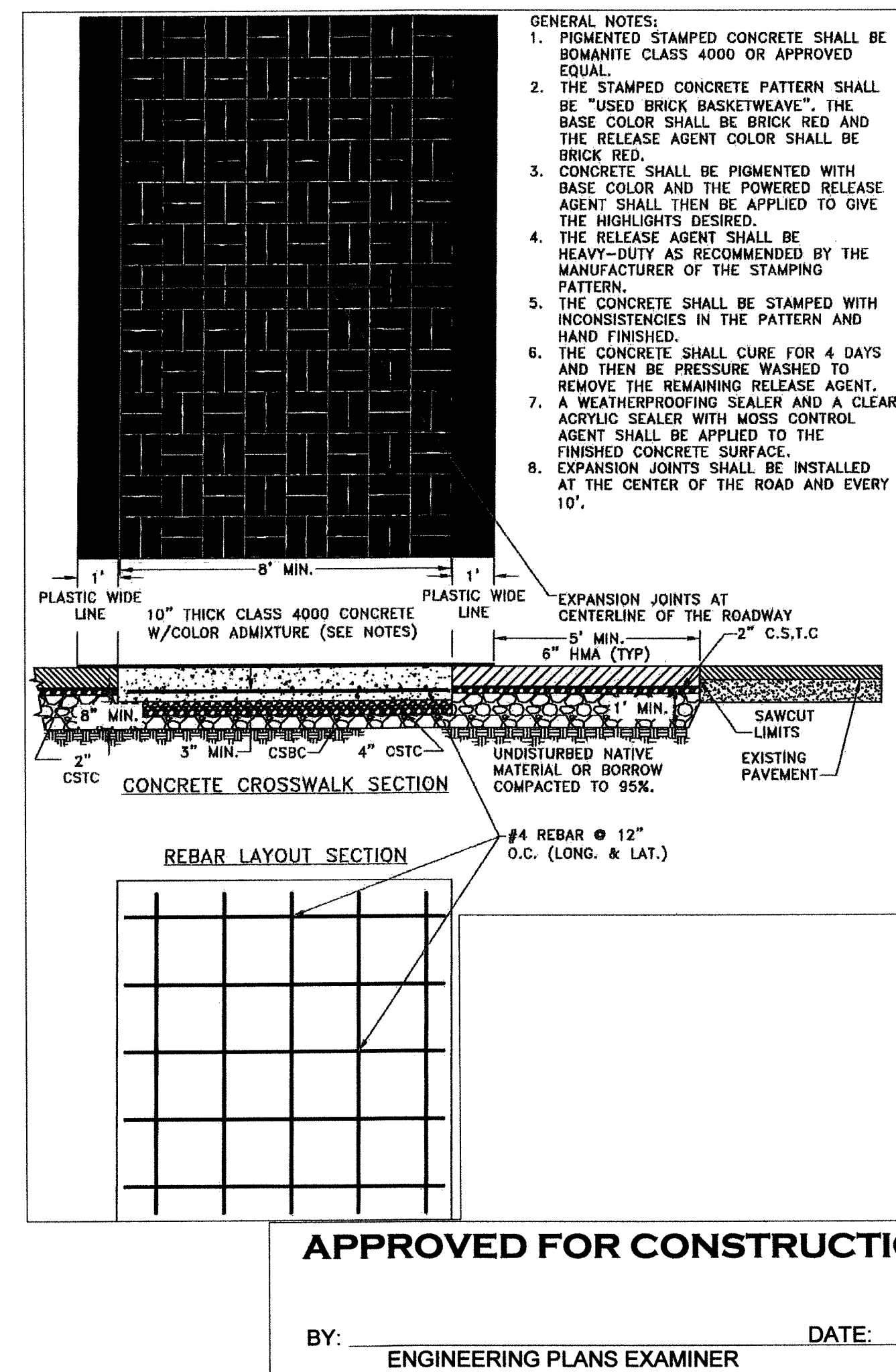
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	9/1/2015	STRIPING DETAIL	4-27C
CITY ENGINEER			



APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. N
FRAN R. EIDE, PE	9/1/2015	CROSSWALK AND CURB RAMP LOCATIONS/STOP BAR DIMENSIONS FOR RETROFIT SITUATIONS	4-32
CITY ENGINEER			



SEE STANDARD PLANT SPECIFICATIONS  
JOINT (TYP.) - SEE STANDARD PLANT SPECIFICATIONS  
CURB AND GUTTER  
CURB RAIL  
SEE CONTRACT  
CONTRACT SPECIFICATIONS  
CONTRACT SPECIFICATIONS  
SIDEWALK



BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER



1+41.94, CL (SIMMONS ST) =  
1+87.40, CL (4TH AVE)

3+22.00, CL (SIMMONS ST) =  
1+00.00, CL (WOONERF)

1+44.23, CL (5TH) =  
4+45.52, CL (SIMMONS)

1+92.44, CL (WOONERF) =  
2+23.76, CL (ALLEY)

2+36.79, CL (5TH AVE) =  
1+00.00, CL (ALLEY)

4+10.10, CL (WOONERF) =  
3+22.50, CL (SYLVESTER)

4+54.47, CL (5TH) =  
4+46.10, CL (SYLVESTER)

**CITY OF OLYMPIA**

**VERTICAL DATUM**  
THURSTON COUNTY HIGH PRECISION  
CONTROL POINT NO. 44HBRIDGE  
3" T.C. BRASS CAP IN SIDEWALK  
OLYMPIA/4TH AVE BRIDGE. POINT FALLS IN CONC.  
SIDEWALK, 3' N OF N FACE OF CONC. RAIL,  
1.8' EAST OF SEAM OVER SE "ENDWALL". 63.5' WEST OF SE  
CONC. RAIL, SOUTH SIDE OF BRIDGE.  
NAVD 88 ELEVATION=20.00

**MERIDIAN (HORIZONTAL DATUM)**  
CITY OF OLYMPIA COORDINATE SYSTEM  
BASED ON MONUMENT LINE OF SYLVESTER  
ST. SE AS SHOWN EQUALS NORTH 4°04'10"  
WEST

SCALE: 1" = 20'

LEGEND

2% SLOPE %

GRADE BREAK

FG SPOT ELEVATION

**PAVER SECTION**  
N.T.S.

FINISH GRADE

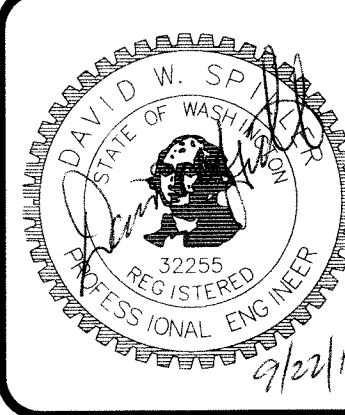
4" PAVER (AC)

6" CRUSHED ROCK BASE (CRB)

12" STRUCTURAL FILL  
OVER WOVEN GEOTEXTILE  
FABRIC

COMPACTED SUBGRADE

DESIGNED BY: LDT  
DRAWN BY: MJM/LDT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1" = 20'  
V



**HATTON GODAT PANTIER**  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E. SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.8299  
hatterpantier.com

REVISIONS	DATE

TP# 91 00530.1000, 91 00530.1000, 91 00530.2000

**VIEWS ON 5TH**

**410 5TH AVE SW OLYMPIA WA 98502**

**GRADING PLAN**

A PORTION OF THE NORTHWEST QUARTER OF THE SOUTH-WEST QUARTER OF  
SECTION 14, TOWNSHIP 16 NORTH, RANGE 2 WEST, 14 W.

TOPOGRAPHIC NOTE:  
THE EXISTING TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS  
HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION  
FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED  
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DOCUMENT, UNLESS CERTIFIED BY HATTON GODAT  
PANTIER.

ANY ALTERATIONS TO THE DESIGN SHOWN HEREON  
MUST BE REVIEWED AND APPROVED BY HATTON  
GODAT PANTIER.

NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR  
THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES.  
THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR  
TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE  
LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY  
EXCAVATION.

**APPROVED FOR CONSTRUCTION**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

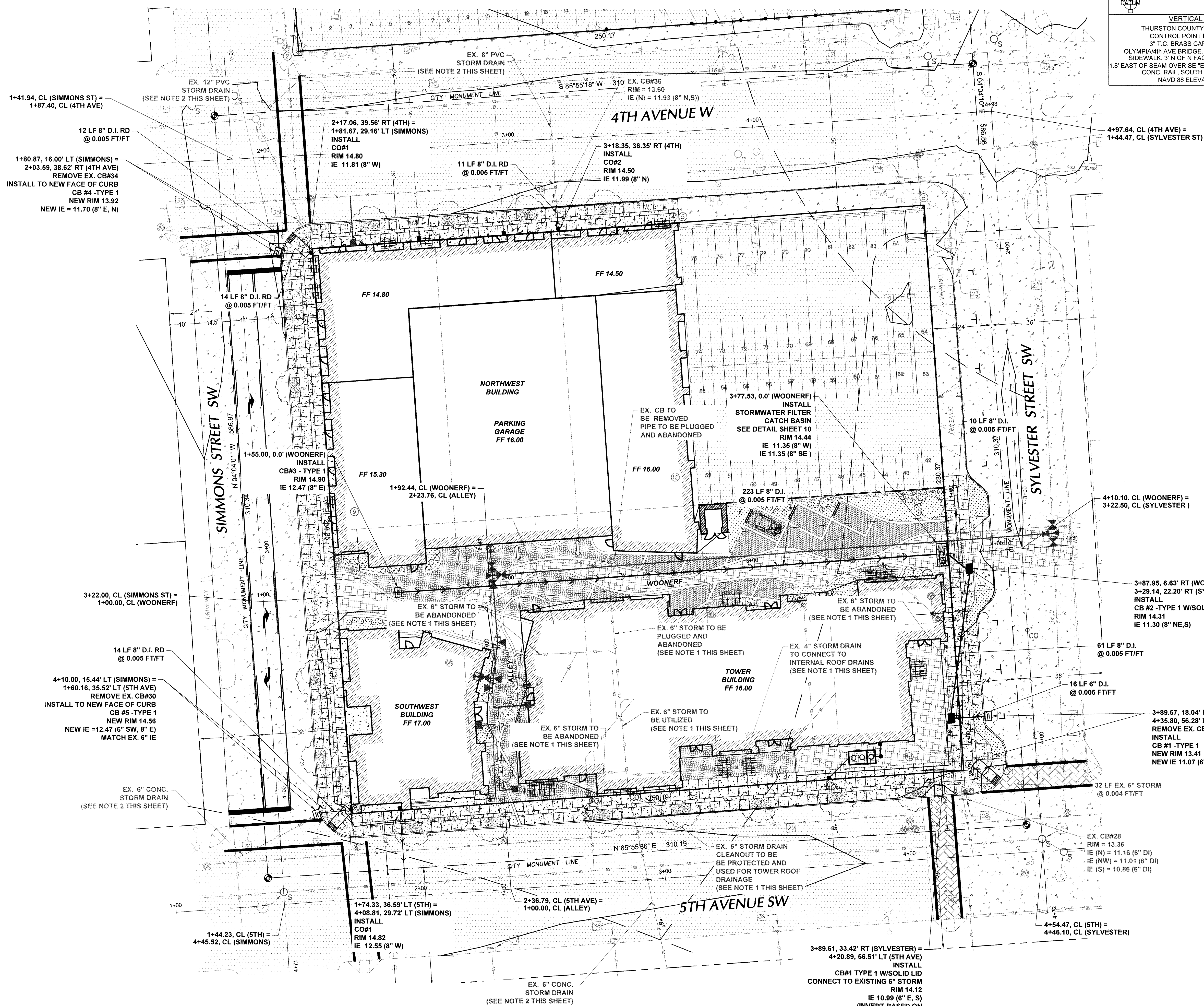
APPROVAL EXPIRES: \_\_\_\_\_

AGENCY NO. 16 9069

SHEET: 7 OF 14  
E:\dgn\17-000\17-010\CDs  
INDEX: 17-010-grd.dwg

JOB: 17-010





CITY OF OLYMPIA

VERTICAL DATUM

THURSTON COUNTY HIGH PRECISION  
CONTROL POINT NO. 44BRIDGE  
3" T.C. BRASS CAP IN SIDEWALK  
OLYMPIA/4th AVE BRIDGE. POINT FALLS IN CONC.  
SIDEWALK. 3' N OF N FACE OF CONC. RAIL.  
1.8' EAST OF SEAM OVER SE "ENDWALL". 63.5' WEST OF SE  
CONC. RAIL. SOUTH SIDE OF BRIDGE.  
NAVD 88 ELEVATION=20.00

MERIDIAN (HORIZONTAL DATUM)

CITY OF OLYMPIA COORDINATE SYSTEM  
BASED ON MONUMENT LINE OF SYLVESTER  
ST. SE AS SHOWN EQUALS NORTH 4°04'10"  
WEST

SCALE: 1" = 20'

20

10

0

10

20

40

- NOTE 1:  
THOSE STORM AND SANITARY  
LINES ADJACENT TO AND UNDER  
THE BUILDING ARE TRANSCRIBED  
FROM BUILDING PLUMBING RECORDS
- NOTE 2:  
PER CITY OF OLYMPIA DRAWING:  
DRAINAGE BASINS: CAPITAL, EAST BAY  
& MOXIE. DRAWING NUMBER 14-18-2
- NOTE 3:  
DUCTILE IRON PIPE SHALL CONFORM TO  
ANSI A 21.51 OR AWWA C151 AND SHALL  
BE CEMENT MORTAR LINED AND HAVE A  
1-MIL SEAL COAT PER AWWA C104 OR A  
CERAMIC-FILLED, AMINE-CUREDNOVALAC  
EPOXY LINING AS INDICATED ON THE  
PLANS OR IN THE SPECIAL PROVISIONS.  
THE DUCTILE IRONPIPE SHALL BE  
SPECIAL THICKNESS CLASS 50, MINIMUM  
PRESSURE CLASS 350, OR THE CLASS  
INDICATED ON THE PLANS OR IN THE  
SPECIAL PROVISIONS

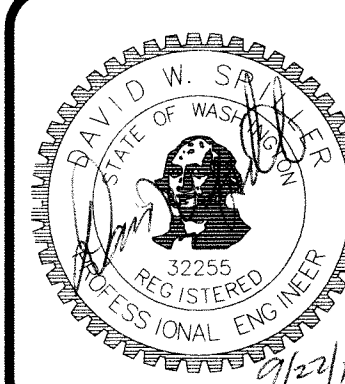
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LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY  
EXCAVATION.

DESIGNED BY: LDT  
DRAWN BY: MMLDT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1" = 20'  
V



HATTON GODAT PANTIER  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E, SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
hatterpantier.com

REVISIONS:	DATE:

TP# 9100520.1000, 91005201.000, 91005202.000

IEWS ON 5TH  
410 5TH AVE SW OLYMPIA WA 98502

DRAINAGE PLAN

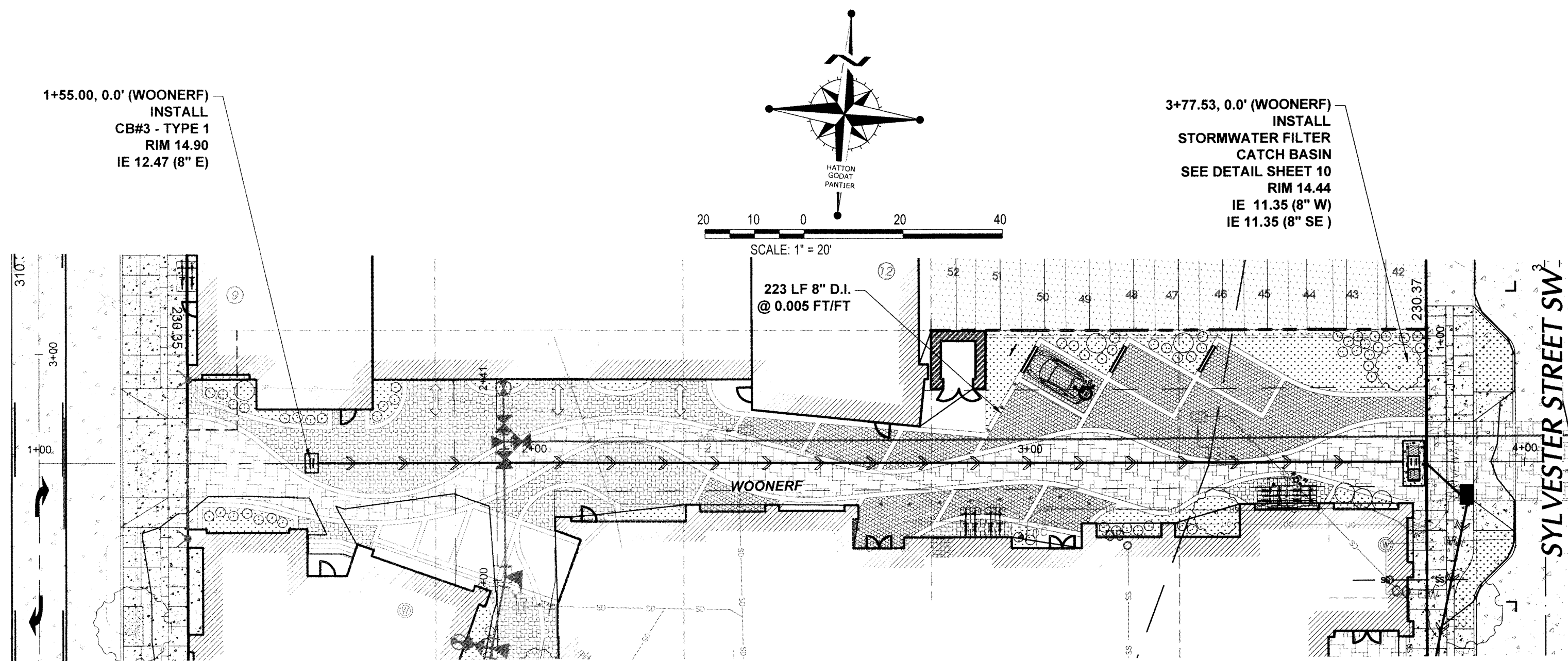
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SECTION 14, TOWNSHIP 14 NORTH, RANGE 2 WEST, W-14.

AGENCY NO. 16.9069

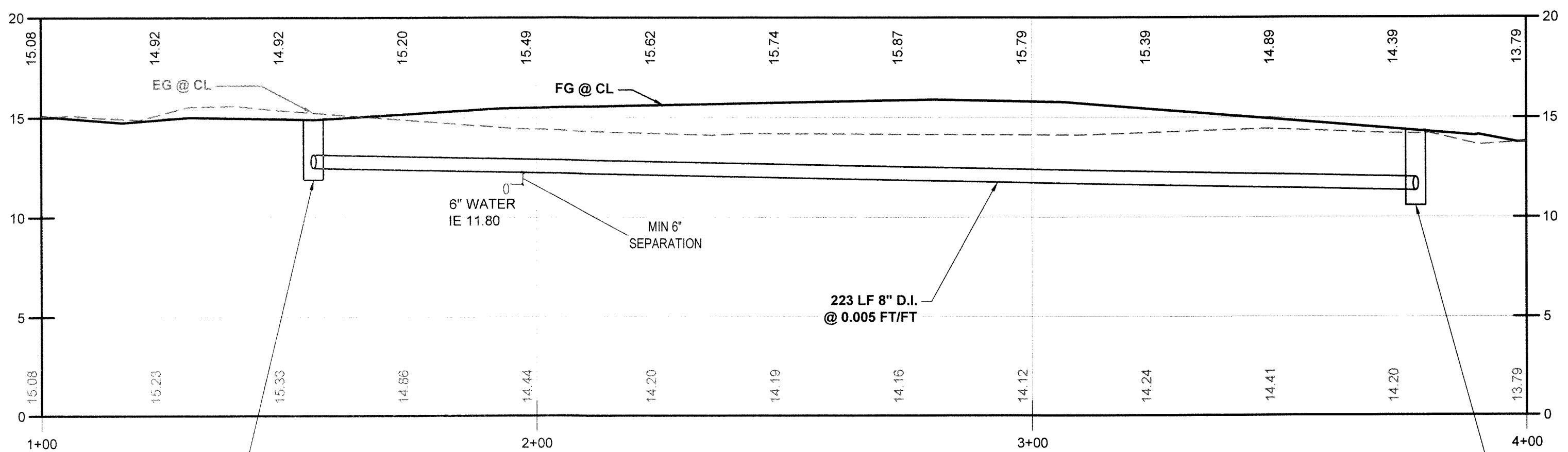
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JOB: 17-010

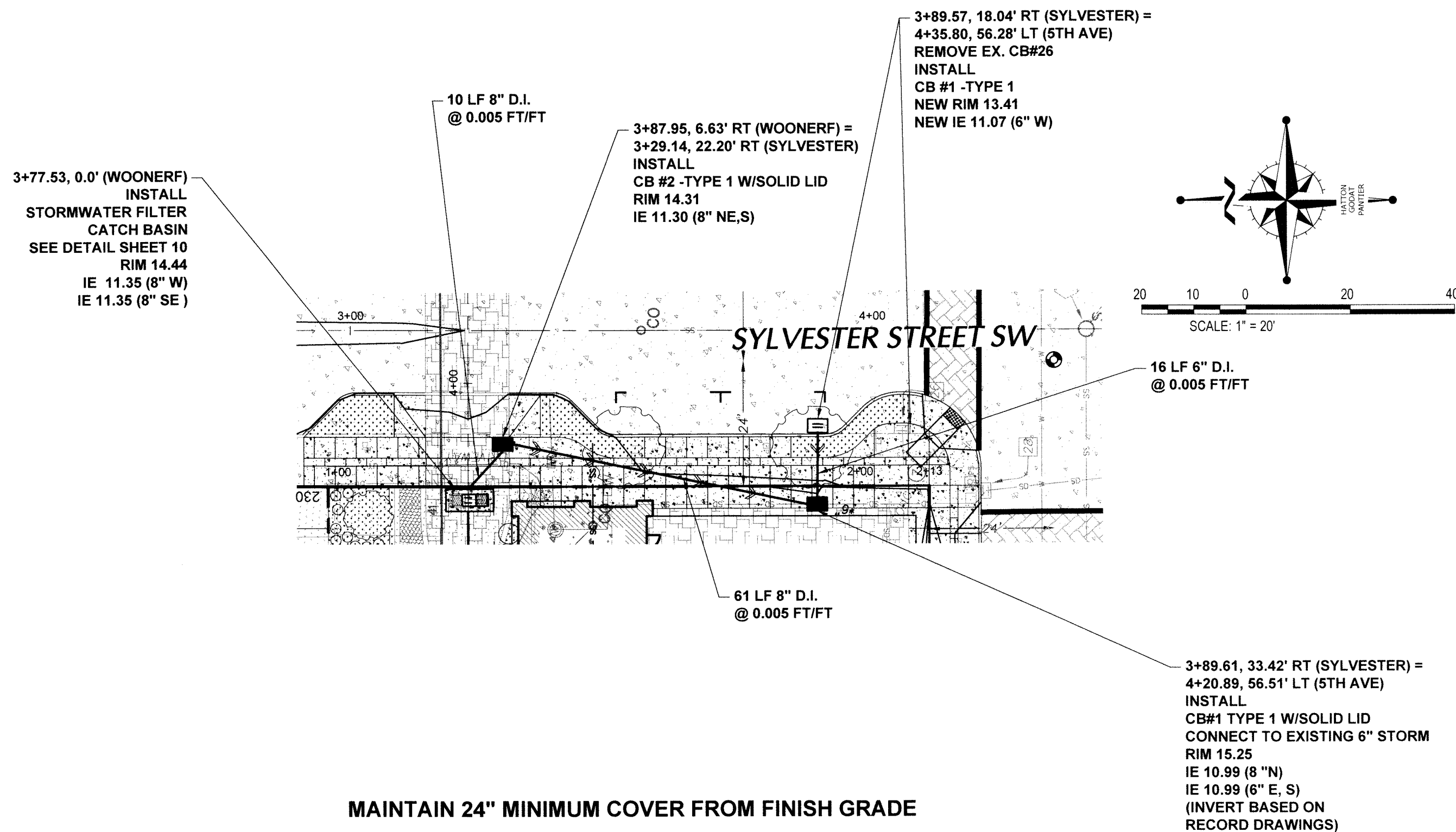




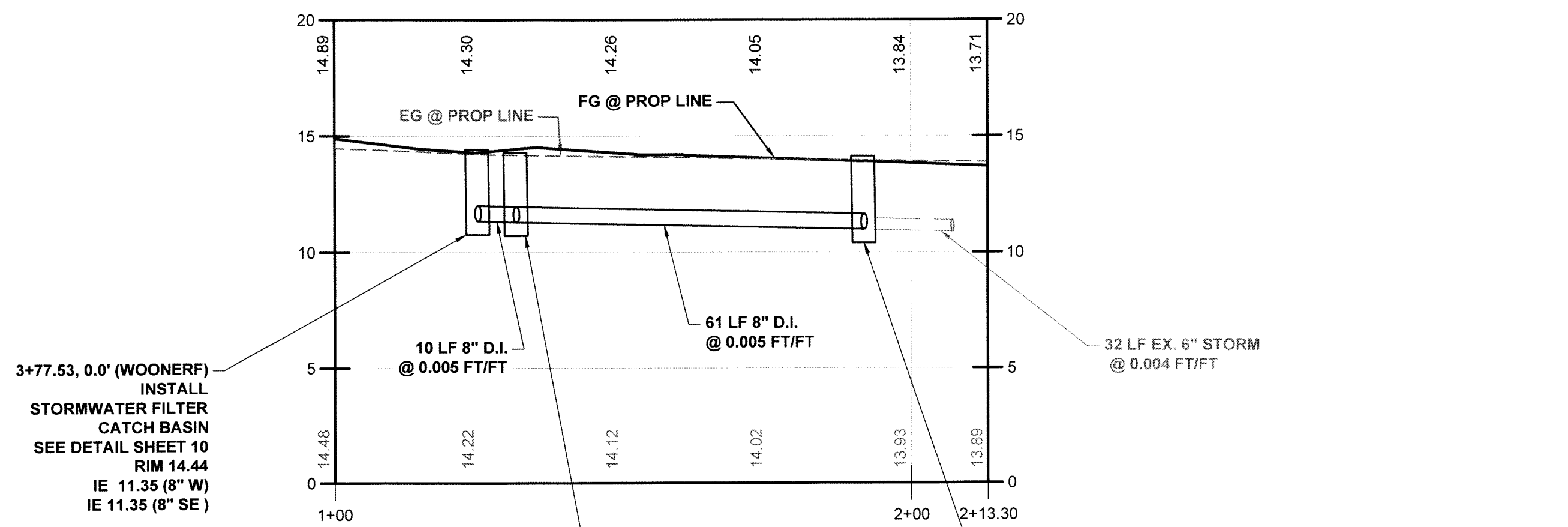
MAINTAIN 24" MINIMUM COVER FROM FINISH GRADE



"WOONERF" PROFILE



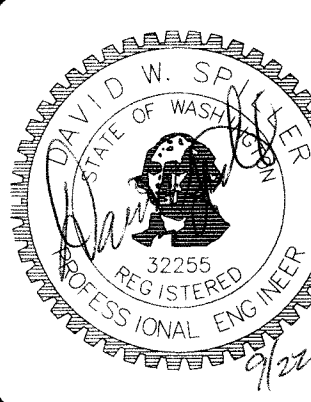
MAINTAIN 24" MINIMUM COVER FROM FINISH GRADE



"EAST PROP LINE" PROFILE

DATUM	CITY OF OLYMPIA	DATUM
VERTICAL DATUM THURSTON COUNTY HIGH PRECISION CONTROL POINT NO. 4#BRIDGE 3" T.C. BRASS CAP IN SIDEWALK OLYMPIA/4TH AVE BRIDGE. POINT FALLS IN CONC. SIDEWALK 3' N OF N FACE OF OF CONC. RAIL. 1'8" EAST OF SEAM OVER SE "ENDWALL". 63.5' WEST OF SE CONC. RAIL. SOUTH SIDE OF BRIDGE. NAVD 88 ELEVATION=20.00		MERIDIAN (HORIZONTAL DATUM) CITY OF OLYMPIA COORDINATE SYSTEM BASED ON MONUMENT LINE OF SYLVESTER ST. SE AS SHOWN EGUALS NORTH 4°04'10" WEST

DESIGNED BY:	LOT
DRAWN BY:	MJMLDT
CHECKED BY:	DS
DATE:	SEP 2017
SCALE:	H 1" = 20'
	V



**HATTON GODAT PANTIER**  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E. SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
haddonpantier.com

REVISIONS	DATE

**VIEWS ON 5TH**  
**410 5TH AVE SW OLYMPIA WA 98502**  
**DRAINAGE PLAN AND PROFILE**  
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF  
SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

TOPOGRAPHIC NOTE:  
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EXCAVATION.

TP# 91005301000\_91005201000\_91005502000

AGENCY NO.	16.9069
SHEET	9 OF 14
E:\dgn\17-000\17-010\CDs	
INDEX:	17-010-drn.dwg
JOB:	17-010





**GENERAL NOTES**

1. CONTACT TO PROVIDE ALL MATERIALS UNLESS NOTED OTHERWISE.
2. FOR SITE SPECIFIC DRAWINGS WITH DETAILED STORMFILER CATCH-BASIN STRUCTURE, DIMENSIONS AND WEIGHTS, PLEASE CONTACT YOUR CONTACT ENGINEERED SOLUTIONS LLC REPRESENTATIVE. [www.ContactES.com](http://www.ContactES.com)
3. STORMFILER CATCH-BASIN WATER QUALITY STRUCTURE SHALL BE IN ACCORDANCE WITH ALL DESIGN DATA AND INFORMATION CONTAINED IN THIS DRAWING.
4. INLET SHOULD NOT BE LOWER THAN OUTLET. INLET (IF APPLICABLE) AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
5. STORMFILER CATCH-BASIN EQUIPPED WITH A 4" (CH) (APPROXIMATE) LONG STUBS FOR INLET (IF APPLICABLE) AND OUTLET PIPING. STANDARD OUTLET STUB IS 8" INCHES IN DIAMETER. MAXIMUM OUTLET STUB IS 15" INCHES IN DIAMETER. CONNECTION TO COLLECTION PIPING CAN BE MADE USING FLANGE COUPLING BY CONTRACTOR.
6. STRUCTURE TO BE MANUFACTURED OF 1/4" THIN STEEL PLATE. CASTINGS SHALL MEET AASHTO M306 LOAD RATING. TO MEET M306 LOAD RATING ON STRUCTURE, A CONCRETE COAT SHALL BE APPLIED, WHEN REQUIRED. CONCRETE COAT WITH QUANTITY (QT) #4 REINFORCING BARS TO BE PROVIDED BY CONTRACTOR.
7. FILTER CARTRIDGES SHALL BE: MEDIA-FILLED, PASSIVE, SIPHON ACTUATED, RADIAL FLOW, AND SELF-CLEANING. RADIAL MEDIA DEPTH SHALL BE 7-INCHES. FILTER MEDIA CONTACT TIME SHALL BE AT LEAST 37 SECONDS.
8. SPECIFIC FLOW RATE IS EQUAL TO THE FILTER TREATMENT CAPACITY (gpm) DIVIDED BY THE FILTER CONTACT SURFACE AREA (sq ft).

**INSTALLATION NOTES**

- A. SUB-BASIN, INLET, DEPTH; AND/OR ANTI-FLOTATION PROVISIONS ARE SITE-SPECIFIC DESIGN CONSIDERATIONS AND SHALL BE SPECIFIED BY ENGINEER OF RECORD.
- B. CONTRACTOR TO PROVIDE EQUIPMENT WITH SUFFICIENT LIFTING AND REACH CAPACITY TO LIFT AND SET THE CATCH-BASIN (LIFTING CLUTCHES PROVIDED).
- C. CONTRACTOR TO TAKE APPROPRIATE MEASURES TO PROTECT CARTRIDGES FROM CONSTRUCTION-RELATED EROSION RUNOFF.

2-CARTRIDGE DEEP CATCH-BASIN STORMFILTER DATA		
STRUCTURE ID		XXX
WATER QUALITY FLOW RATE (cfs)		X.XX
PEAK FLOW RATE (<1.8 cfs)		X.XX
RETURN PERIOD OF PEAK FLOW (yrs)		XXX
CARTRIDGE FLOW RATE (gpm)		XX
MEDIA TYPE (CSF, PERLITE, ZPG, GAC, PHS)		XXXXX
RIM ELEVATION		XXX.XX
PIPE DATA:	I.E.	DIAMETER
INLET STUB	XXX.XX	XX
OUTLET STUB	XXX.XX	XX
CONFIGURATIONS		
SLOPED LID		YES/NO
SOLID COVER		YES/NO
NOTES/SPECIAL REQUIREMENTS:		

### 2 CARTRIDGE CATCHBASIN STORMFILTER STANDARD DETAIL

DESIGNED BY: LDT  
DRAWN BY: MJMLDT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1" = 20'  
V



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TEL: 360.943.1599 FAX: 360.357.6299  
[hattonpantier.com](http://hattonpantier.com)

**hattonpantier.com**

REVISIONS: \_\_\_\_\_

DATE: \_\_\_\_\_

**VIEWS ON 5TH**  
**410 5TH AVE SW OLYMPIA WA 98502**

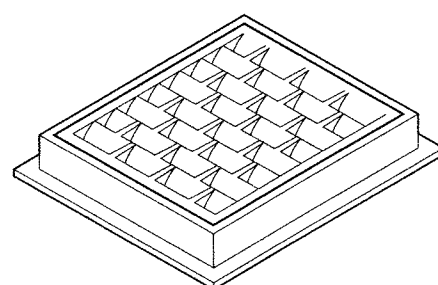
## DRAINAGE DETAILS

A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

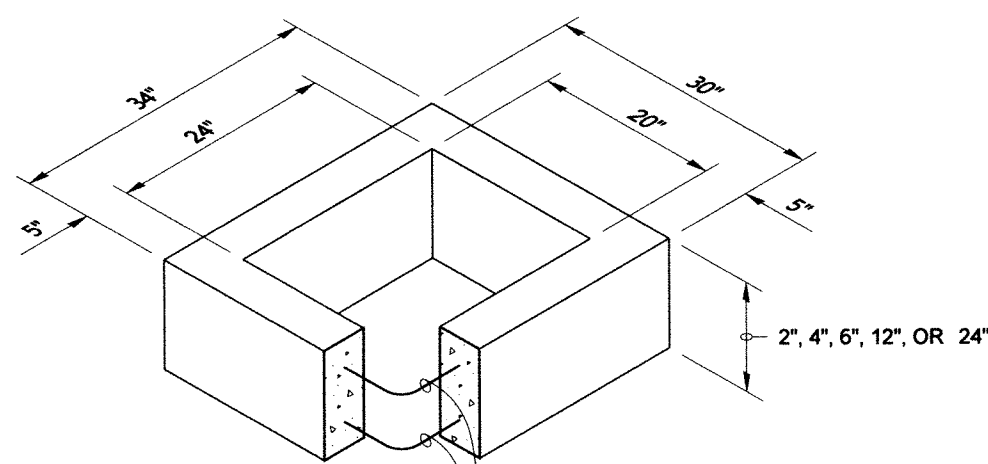
AGENCY NO. 16.9069  
SHEET: 10 OF 14  
E:/dgn/17-000/17-010  
INDEX: 17-010-det.c  
■ JOB: 17-010

■ JOB: 17-010

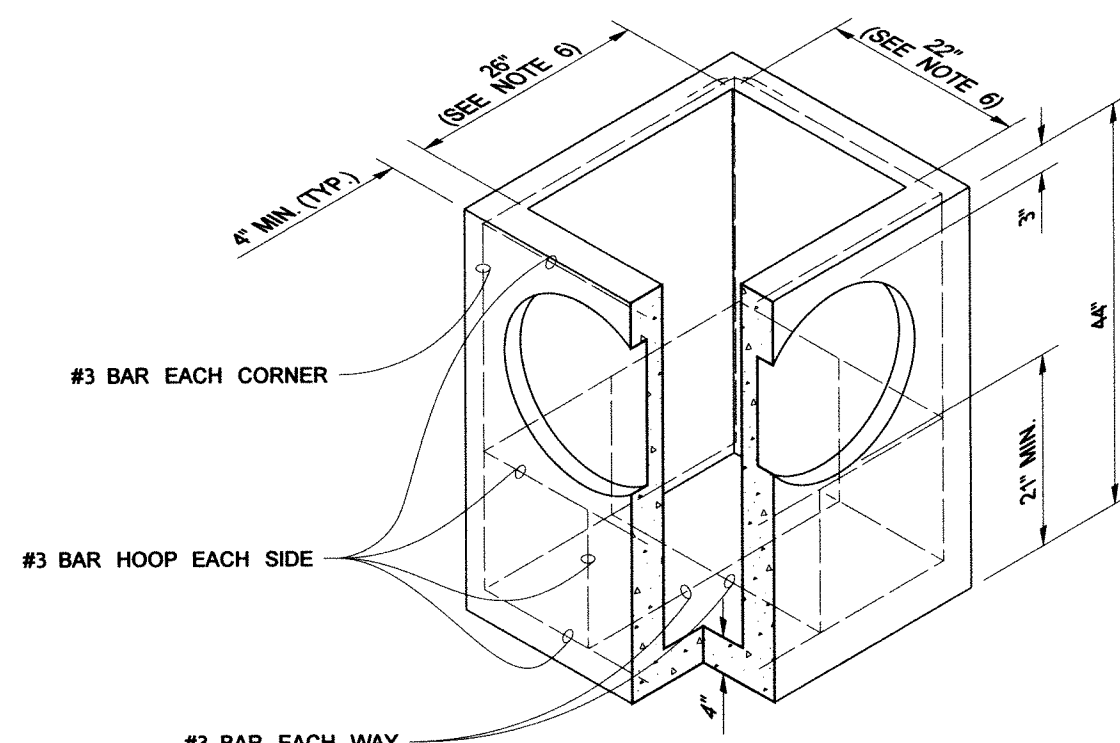
DRAWN BY: LISA CYFORD



### FRAME AND VANED GRATE



### RECTANGULAR ADJUSTMENT SECTION



### PRECAST BASE SECTION

PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSP ★ (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

\* CORRUGATED POLYETHYLENE  
STORM SEWER PIPE

## NOTES

1. As acceptable alternatives to the rebar shown in the PRECAST BASE SECTION, fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the ALTERNATIVE PRECAST BASE SECTION. Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange down, or integrally cast into the adjustment section with flange up.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the Precast Base Section.
7. All pickup holes shall be grouted full after the basin has been placed.



NOTE: THIS PLAN IS NOT A LEGAL ENGINEERING DOCUMENT BUT AN ELECTRONIC DUPLICATE THE ORIGINAL SIGNED BY THE ENGINEER AND APPROVED FOR PUBLICATION IS KEPT ON FILE AT THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION. A COPY MAY BE OBTAINED UPON REQUEST.

### CATCH BASIN TYPE 1

## STANDARD PLAN B-5.20-01

APPROVED FOR PUBLICATION

Pasco Bakotich III 06-16-11

STATE DESIGN ENGINEER DATE

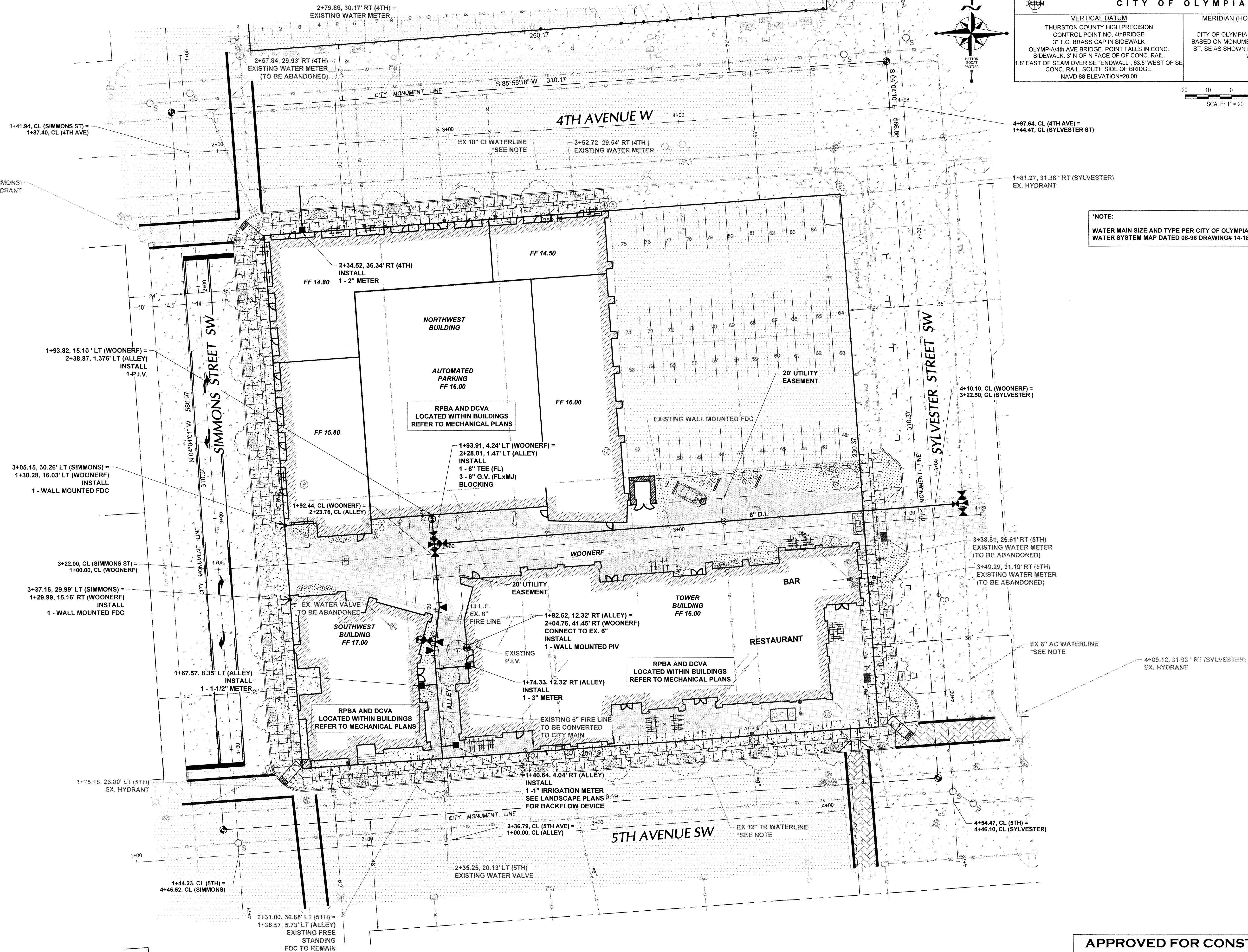
 Washington State Department of Transportation

**APPROVED FOR CONSTRUCTION**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_





DATUM

VERTICAL DATUM

THURSTON COUNTY HIGH PRECISION  
CONTROL POINT NO. 4th BRIDGE  
3" T.C. BRASS CAP IN SIDEWALK  
OLYMPIA/4th AVE BRIDGE, POINT FALLS IN CONC.  
SIDEWALK, 3' N OF N FACE OF OF CONC. RAIL,  
1.8' EAST OF SEAM OVER SE "ENDWALL", 63.5' WEST OF SE  
CONC. RAIL, SOUTH SIDE OF BRIDGE.  
NAVD 88 ELEVATION=20.00

DATUM

MERIDIAN (HORIZONTAL DATUM)

CITY OF OLYMPIA COORDINATE SYSTEM  
BASED ON MONUMENT LINE OF SYLVESTER  
ST. SE AS SHOWN EQUALS NORTH 4°04'10"  
WEST

20 10 0 20 40

SCALE: 1" = 20'

\*NOTE:  
WATER MAIN SIZE AND TYPE PER CITY OF OLYMPIA  
WATER SYSTEM MAP DATED 08-96 DRAWING# 14-18-2, SHEET 3 OF 8

TOPOGRAPHIC NOTE:  
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LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY  
EXCAVATION.

APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_

DESIGNED BY: LOT  
DRAWN BY: M.J.M/DLT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1" = 20'  
V

DAVID W. SPANGLER  
STATE OF WASHINGTON  
REGISTERED  
PROFESSIONAL ENGINEER  
142217

HATTON GODAT  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E, SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
hattonpantier.com

REVISONS

DATE

TP# 91.00530.1000.91.00520.1000.91.005502000

VIEWS ON 5TH

410 5TH AVE SW OLYMPIA WA 98502

WATER PLAN

A PORTION OF THE NORTHWEST QUARTER OF THE SOUTH-WEST QUARTER OF  
SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

AGENCY NO. 16.9069

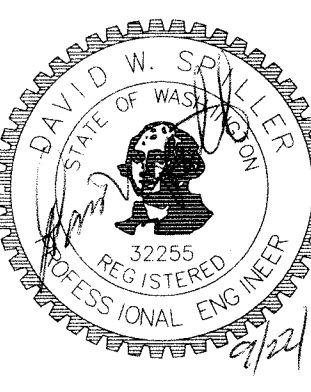
SHEET: 11 OF 14  
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INDEX: 17-010-wtr.dwg

JOB: 17-010



CITY OF OLYMPIA	
VERTICAL DATUM THURSTON COUNTY HIGH PRECISION CONTROL POINT NO. 4th BRIDGE 3" T.C. BRASS CAP IN SIDEWALK OLYMPIA/4th AVE BRIDGE POINT FALLS IN CONC. SIDEWALK 3' N OF N FACE OF CONC. RAIL, 1.8' EAST OF SEAM OVER SE "ENDWALL" 63.5' WEST OF SE CONC. RAIL, SOUTH SIDE OF BRIDGE. NAVD 88 ELEVATION=20.00	MERIDIAN (HORIZONTAL DATUM) CITY OF OLYMPIA COORDINATE SYSTEM BASED ON MONUMENT LINE OF SYLVESTER ST. SE AS SHOWN EQUALS NORTH 4°04'10" WEST

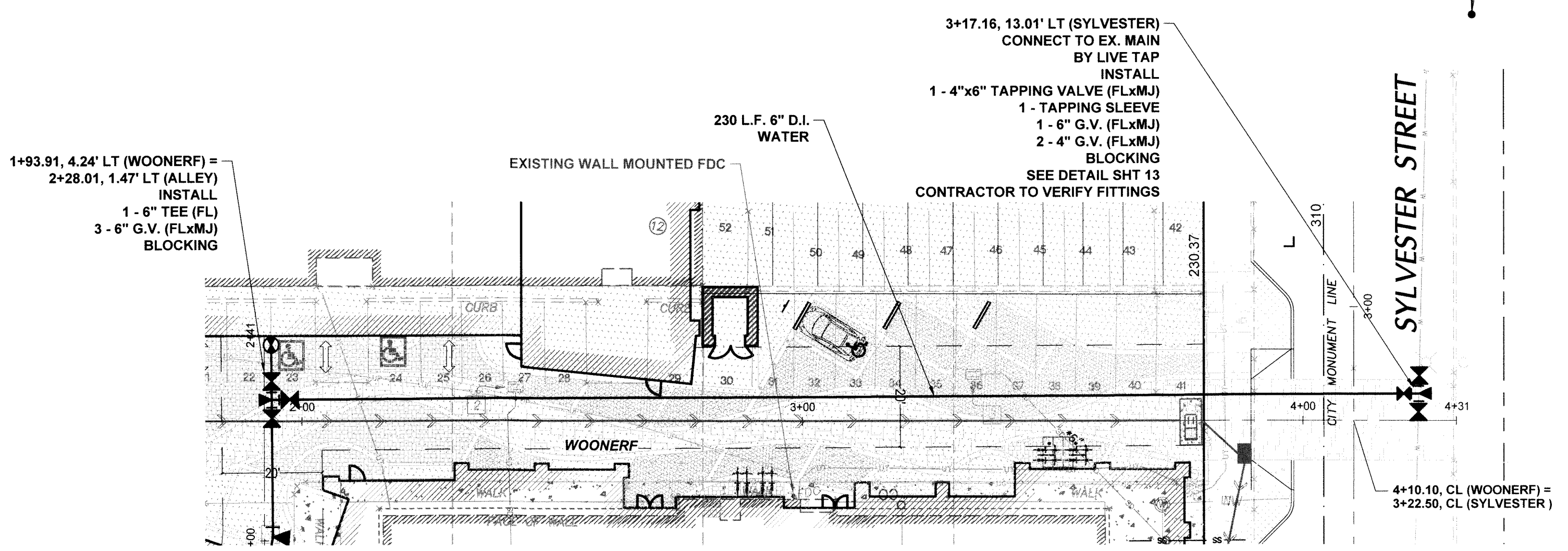
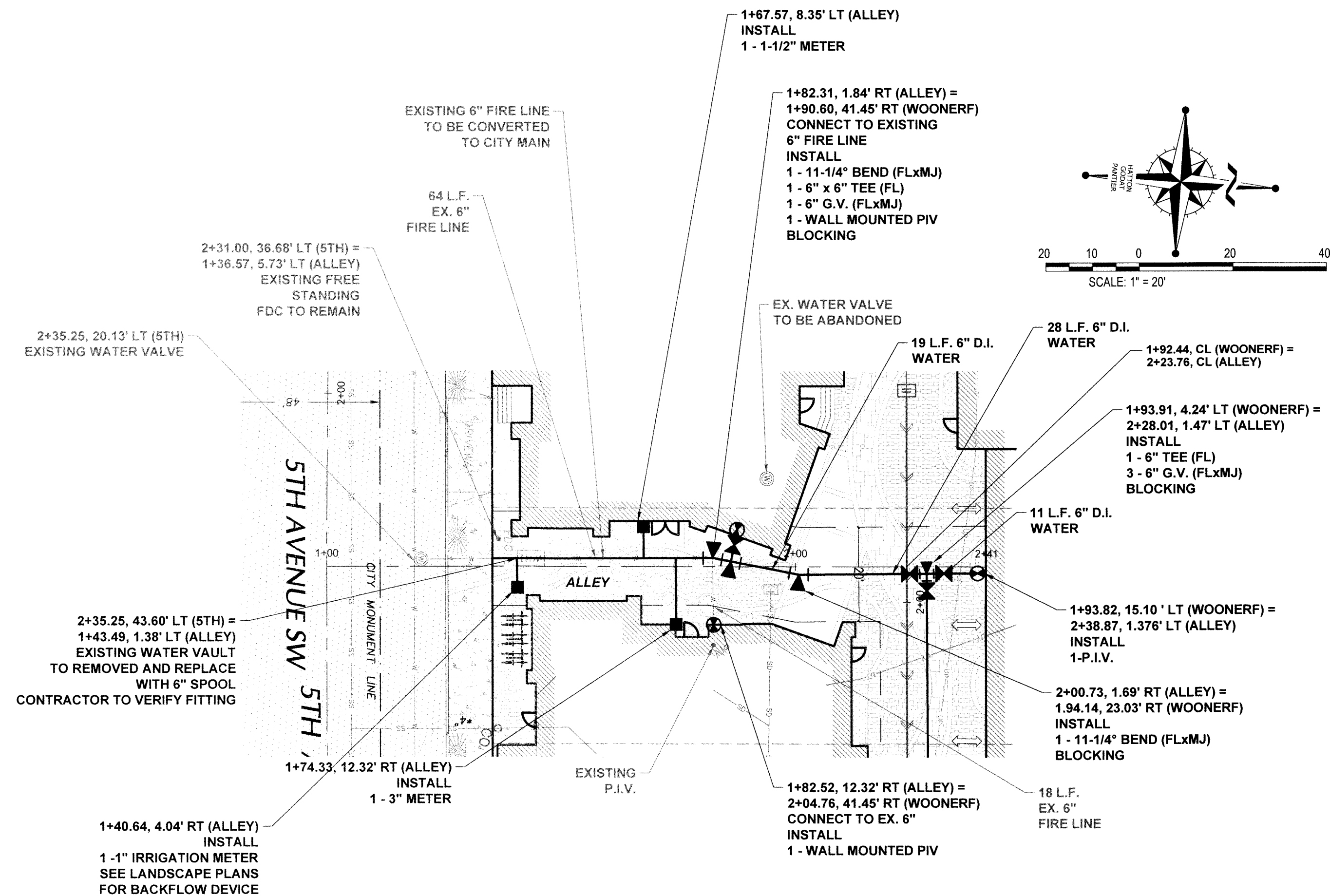
DESIGNED BY:	LOT
DRAWN BY:	MAJLOD
CHECKED BY:	DS
DATE:	SEP 2017
SCALE:	H 1" = 20' V 1" = 20'



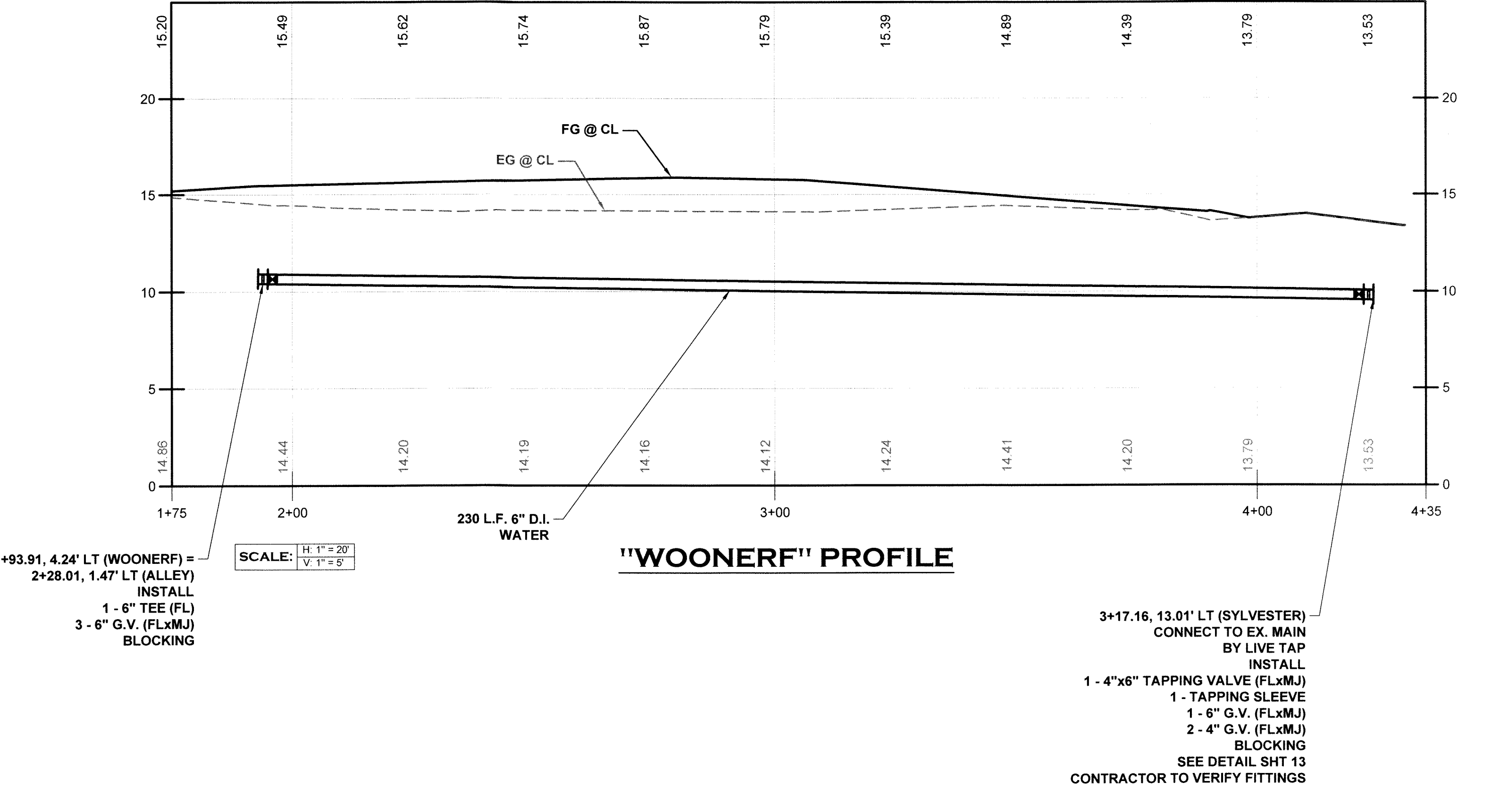
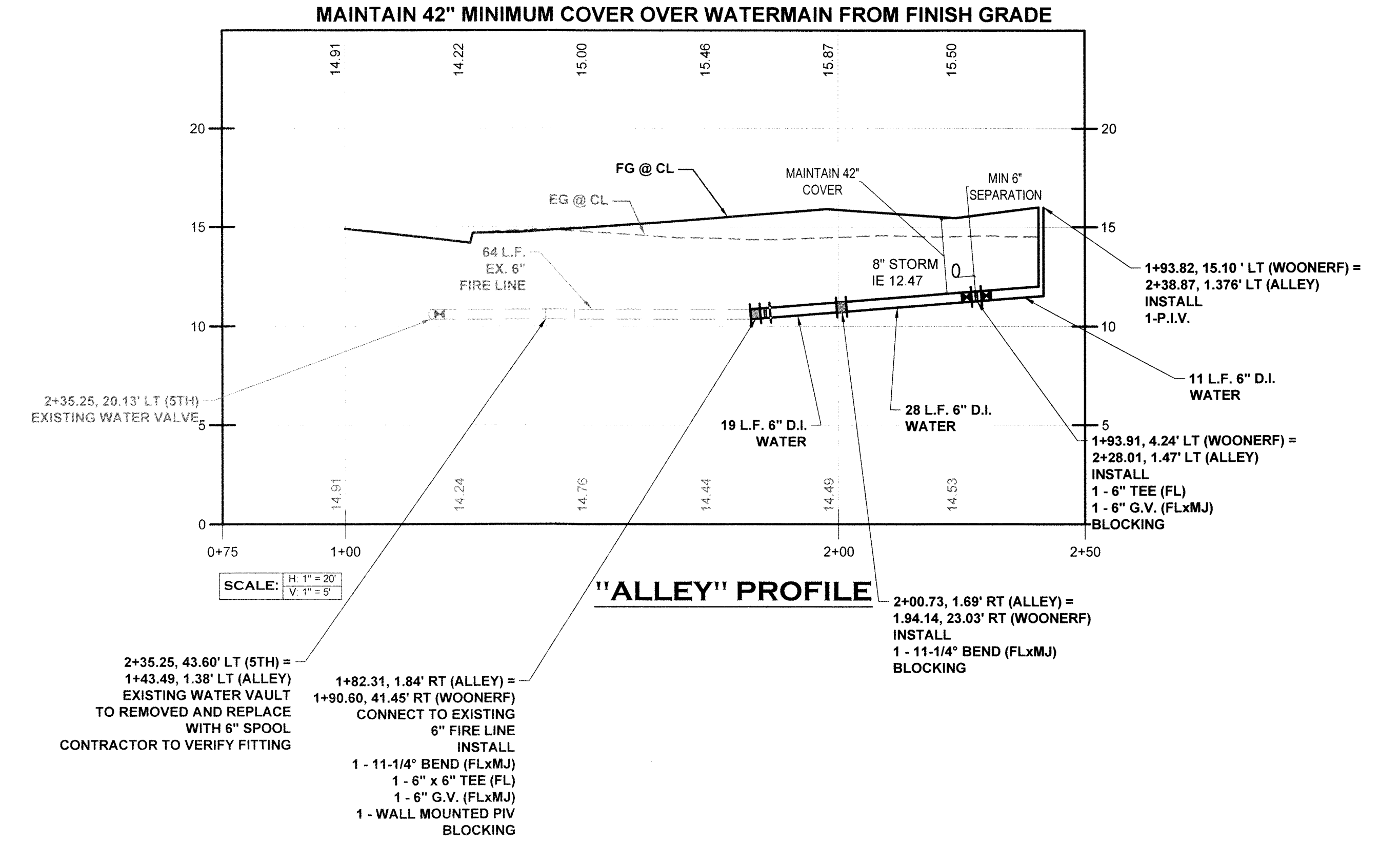
**HATTON GODAT PANTIER**  
ENGINEERS AND SURVEYORS  
3910 MARTIN WAY E, SUITE B  
OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
huttonpantier.com

REVISIONS	DATE

TP# 91.00530.1000, 91.00530.1000, 91.00530.2000  
**VIEWS ON 5TH**  
410 5TH AVE SW OLYMPIA WA 98502  
**WATER PLAN AND PROFILE**  
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 14 NORTH, RANGE 2 WEST, W-4.



MAINTAIN 42" MINIMUM COVER OVER WATERMAIN FROM FINISH GRADE



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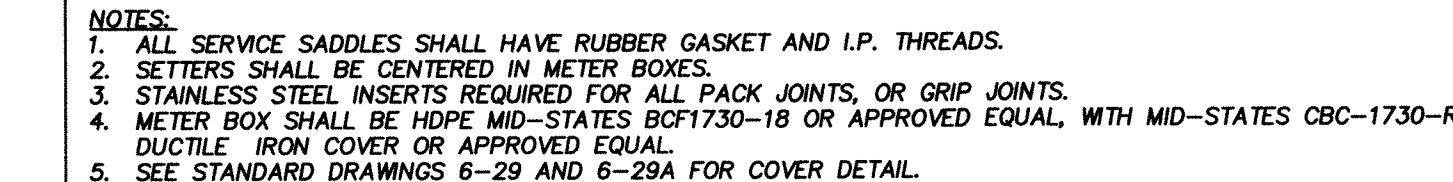
NOTE: THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING THE UNDERGROUND LOCATE LINE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION.

**APPROVED FOR CONSTRUCTION**

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER  
APPROVAL EXPIRES: \_\_\_\_\_

AGENCY NO.	16.9069
SHEET	12 OF 14
INDEX	E:\dgn\17-000\17-010\CDs\17-010-wtr.dwg
JOB	17-010

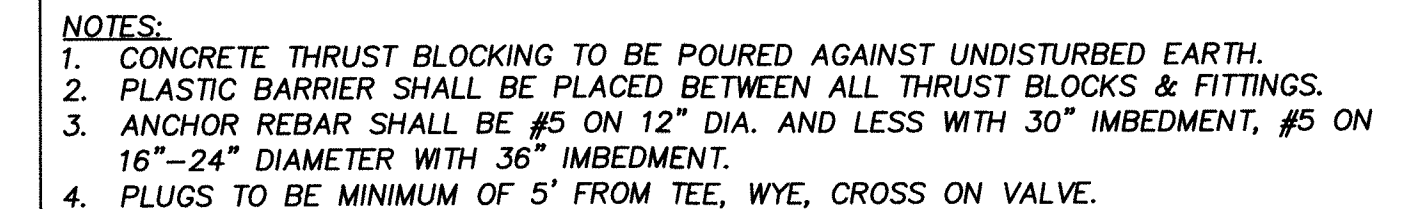
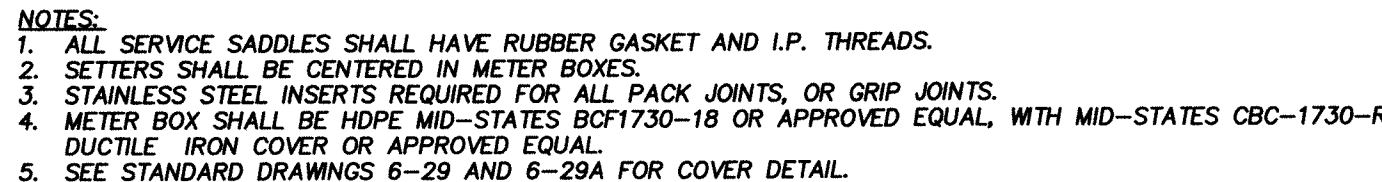
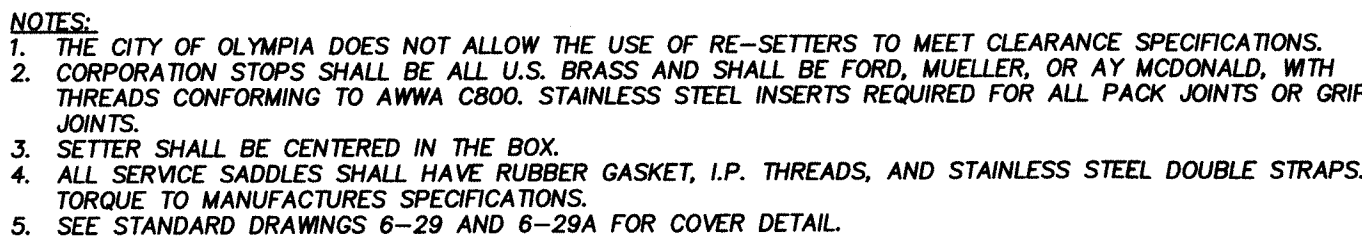
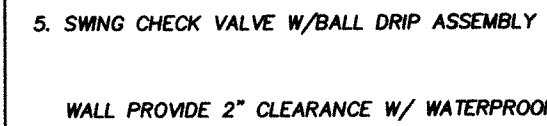




**NOTES:**

1. BLOCKING SHALL BE CEMENT CONCRETE CLASS "B" POURED IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE ISOLATED FROM CONCRETE THRUST BLOCK WITH PLASTIC OR SIMILAR MATERIAL.
2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF) EXAMPLE:  
12" - 90° BEND IN SAND AND GRAVEL  
32,000 LBS ÷ 3000 LB/SF = 10.7 SF OF AREA
3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF SERVICE.

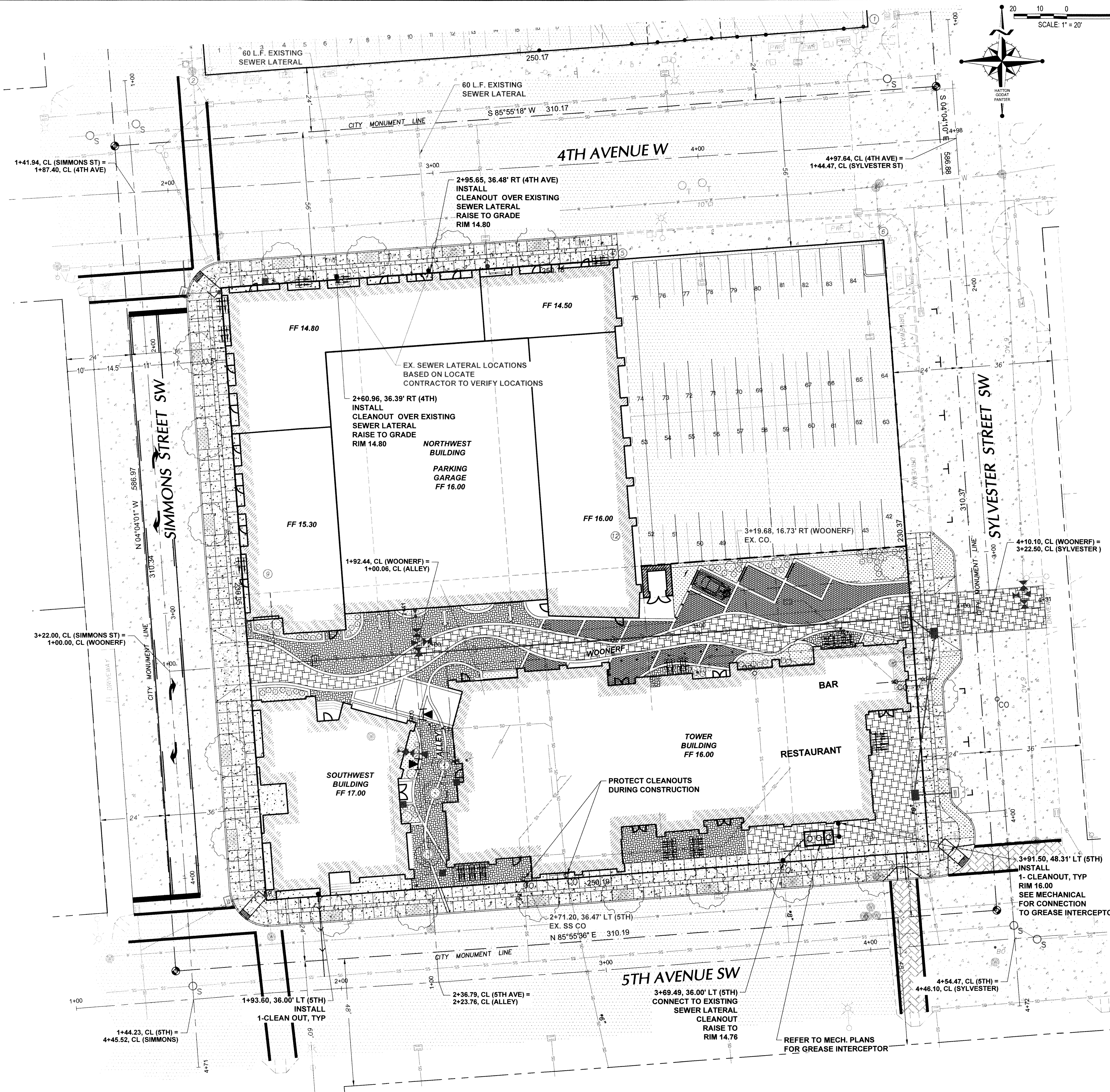
APPROVED BY	REVISED DATE	CITY OF OLYMPIA	STD. DWG. NO.
FRAN R. EIDE, PE	9/1/2015	THRUST LOADS	6-15
CITY ENGINEER			



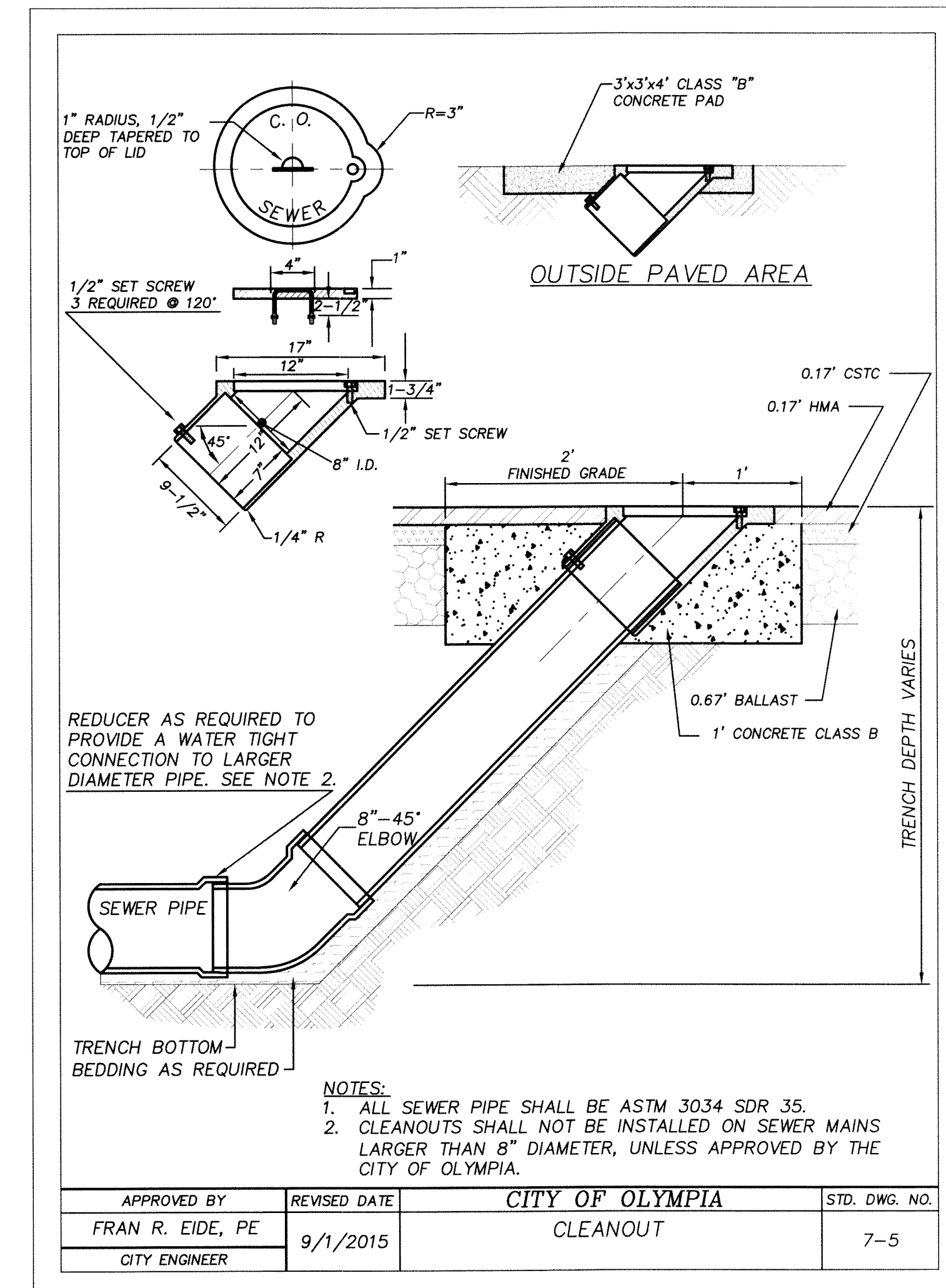
**APPROVAL EXPIRES:**

AGENCY NO. 16.9069  
SHEET: 13 OF 14  
E:/dgn/17-000/17-010/CDs  
INDEX: 17-010-det.dwg  
■ JOB: 17-010





CITY OF OLYMPIA	
VERTICAL DATUM THURSTON COUNTY HIGH PRECISION CONTROL POINT NO. 44 BRIDGE 3\" T.C. BRASS CAP IN SIDEWALK OLYMPIA/4th AVE BRIDGE. POINT FALLS IN CONC. SIDEWALK. 3\" N OF N FACE OF CONC. RAIL. 1.8' EAST OF SEAM OVER SE \"ENDWALL\". 63.5' WEST OF SE CONC. RAIL. SOUTH SIDE OF BRIDGE. NAVD 88 ELEVATION=20.00	MERIDIAN (HORIZONTAL DATUM) CITY OF OLYMPIA COORDINATE SYSTEM BASED ON MONUMENT LINE OF SYLVESTER ST. SE AS SHOWN EQUALS NORTH 4\"04\"10\" WEST



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APPROVED FOR CONSTRUCTION

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
ENGINEERING PLANS EXAMINER

APPROVAL EXPIRES: \_\_\_\_\_

TP# 91005301000, 91005201000, 91005502000

**VIEWS ON 5TH**

**410 5TH AVE SW OLYMPIA WA 98502**

**SANITARY SEWER PLAN**

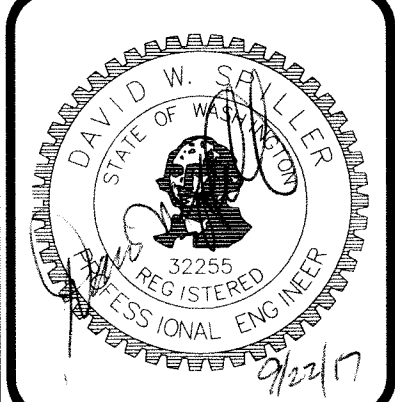
A PORTION OF THE NORTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 14, TOWNSHIP 18 NORTH, RANGE 2 WEST, W.M.

AGENCY NO. 16.9069

SHEET: 14 OF 14  
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INDEX: 17-010-swr.dwg

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OLYMPIA, WA 98506  
TEL: 360.943.1599 FAX: 360.357.6299  
hattonpantier.com



DESIGNED BY: \_\_\_\_\_  
DRAWN BY: MJM/LDT  
CHECKED BY: DS  
DATE: SEP 2017  
SCALE: H 1\"= 20'  
V