

# CANEMAH RESIDENCE

CITY PLANNING #GEO-18-01



SYMONS ENGINEERING  
CONSULTANTS, INC.

12805 s.e. foster road  
portland, oregon 97236  
phone 503 760 1353  
facsimile 503 762 1962



CLIENT

DAVE GREEN  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

CANEMAH  
RESIDENCE

SITE ADDRESS

413 4TH AVE  
OREGON CITY, OR 97045

SHEET NAME

TITLE SHEET

REVISION

△	12/19/17	ISSUED FOR GHR
1	6/22/18	GENERAL REVISIONS
2	10/3/18	ISSUED FOR PERMIT
3	1/8/19	REVISED PER PW COMMENTS
4	4/9/19	GENERAL REVISIONS

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34T.DWG**

PROJECT NUMBER **17-34**

SHEET 1

OF 11 SHEETS

T

## SITE DATA

ZONING: SINGLE FAMILY DWELLING (R6)  
LEGAL DESCRIPTION: 21E36DD07300 + 07303  
TAX LOT: 7300 AND 7303  
SITE AREA: 10,415 SF / 0.239 ACRES

## REFERENCE DOCUMENTS

H.G. SCHLICKER AND ASSOCIATES  
DATED 6/5/17  
(PLUS ANY SUBSEQUENT MEMORANDUM)  
GEO 18-01  
DATED 8/30/18  
HR 16-02

GEOLOGIC HAZARDS AND  
GEOTECHNICAL INVESTIGATION  
GEOLOGIC HAZARDS APPROVAL  
HISTORIC REVIEW

## UTILITY CONTACTS

CLACKAMAS FIRE DISTRICT NO. 1 (503) 742-2600  
NORTHWEST NATURAL GAS (800) 422-4012  
PORTLAND GENERAL ELECTRIC (503) 288-6322  
WASTE MANAGEMENT OF OREGON (503) 249-8078  
OREGON CITY PUBLIC WORKS (503) 657-8241

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- L1 TREE PROTECTION PLAN

## CALL BEFORE YOU DIG

PORTLAND METRO AREA CLARK COUNTY AREA  
(503) 246-6699 (503) 696-4848



ALL OTHER AREAS (800) 332-2344

**ATTENTION:** OREGON LAW REQUIRES YOU TO FOLLOW RULES ADOPTED BY THE OREGON UTILITY NOTIFICATION CENTER. THOSE RULES ARE SET FORTH IN OAR 952-001-0010 THROUGH 952-001-0090. YOU MAY OBTAIN COPIES OF THESE RULES BY CALLING THE CENTER YOU MUST NOTIFY THE CENTER AT LEAST (2) BUSINESS DAYS, BUT NOT MORE THAN (10) BUSINESS DAYS, BEFORE COMMENCING AN EXCAVATION.  
CALL (503) 246-6699 / (800) 332-2344.  
**NOTE:** THE BUSINESS TELEPHONE NUMBER FOR THE OREGON UTILITY NOTIFICATION CENTER IS (503) 232-1987

## CIVIL LEGEND

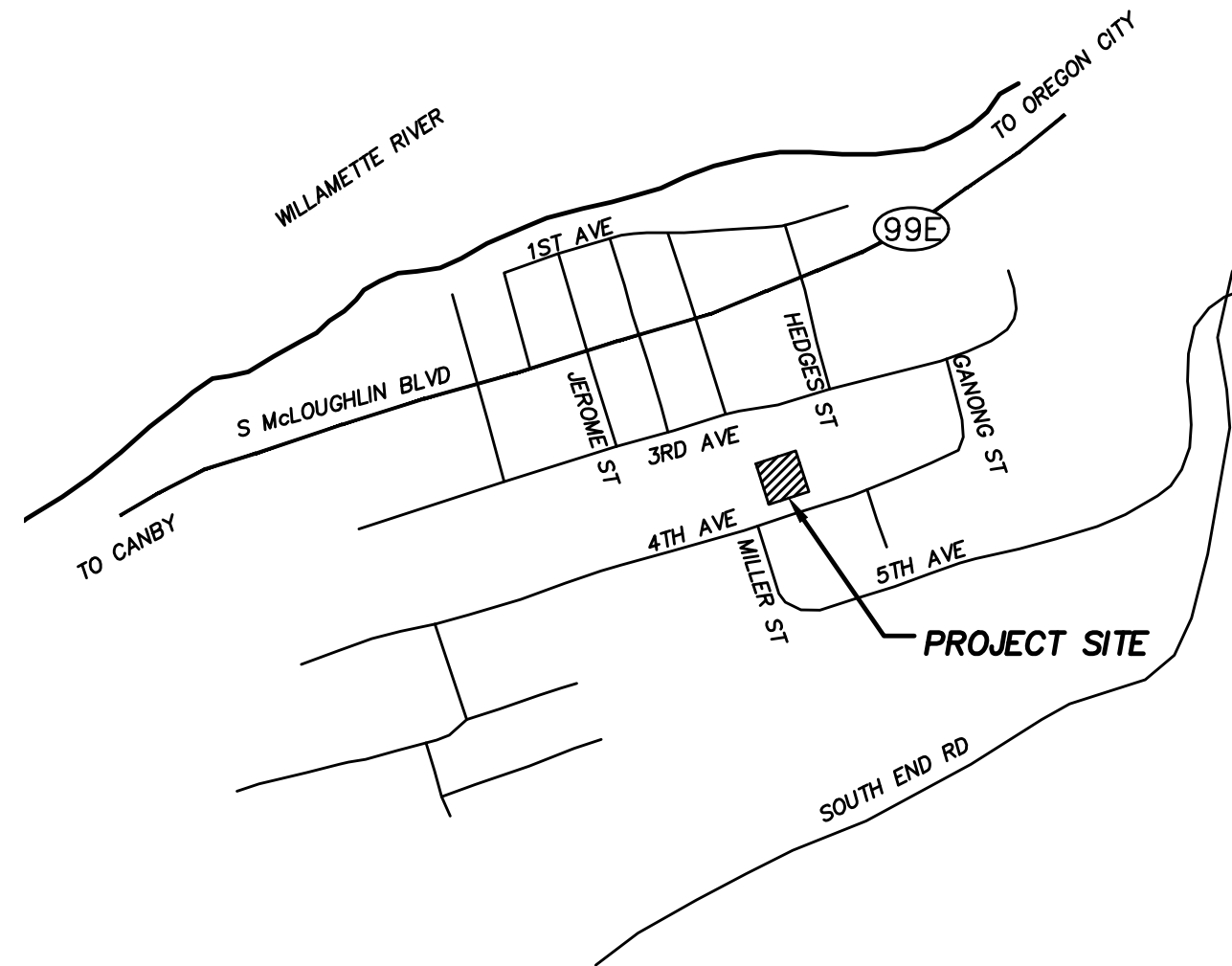
---	EXISTING PROPERTY LINE
---	OFFSITE PROPERTY LINE
---	EXISTING CONTOUR
---	NEW CONTOUR
---	EXISTING GAS LINE
---	NEW GAS LINE
---	EXISTING OVERHEAD LINE
---	NEW ELECTRICAL LINE
---	NEW ELECTRICAL/TELEPHONE LINE
---	EXISTING SANITARY SEWER LINE
---	NEW SANITARY SEWER LINE
---	EXISTING STORM SEWER LINE
---	NEW STORM SEWER LINE
---	EXISTING WATER LINE
---	NEW WATER LINE
---	EXISTING UTILITY TO BE REMOVED
---	EROSION CONTROL
---	STREET CENTERLINE
---	SAWCUT
---	EXISTING ASPHALT EDGE
---	NEW ASPHALT EDGE
---	EXISTING CURB
---	NEW CURB
---	EXISTING EDGE OF GRAVEL
---	EXISTING CONCRETE SURFACE
---	NEW CONCRETE SURFACE
---	PROPOSED AC
XXX.XX	EXISTING SPOT ELEVATION
XXX.XX	NEW SPOT ELEVATION
---	EXISTING SIGN
(E) MH	EXISTING MANHOLE
○ MH	NEW MANHOLE
■ CB	NEW INLET
■ WM	NEW WATER METER
○ CO	NEW CLEANOUT
○(E) PP	EXISTING POWER POLE
---	EXISTING POWER POLE W/ GUY

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Samuel*  
Date: 06/07/2019

AS-BUILT NUMBER: 100139.00



VICINITY MAP

NO SCALE

## GENERAL NOTES

THESE DESIGN DRAWINGS PRESENT THE CIVIL CONCEPTS OF THIS PROJECT AND ARE NOT INTENDED TO SERVE AS CONTRACTOR'S SHOP DRAWINGS. CERTAIN ITEMS MAY NOT BE COMPLETELY DETAILED ON THESE DRAWINGS. SUCH ITEMS SHALL BE CONSTRUCTED TO THE CODES AND STANDARDS AS INDICATED. WHEN IN DOUBT, MAKE A DETAILED SUBMITTAL TO THE ENGINEER INCLUDING LAYOUT, FAB AND INSTALL DETAILS AND CATALOGUE CUTS FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION.

THE INTENTION OF THE DRAWINGS IS THAT ITEMS TO BE FIXED IN POSITION SHALL BE BOLTED, SCREWED, RIVETED, WELDED OR LOCKED INTO PLACE SUFFICIENTLY TO PROPERLY SECURE THE ITEM CONSIDERED. FLASHING, CAULKING, PAINTING AND WEATHERSTRIPPING SHALL BE APPLIED TO RENDER STRUCTURE WEATHERPROOF AND PROTECTED AGAINST THE ELEMENTS. ALL OF THE ABOVE SHALL BE CONSIDERED A NECESSARY REQUIREMENT FOR FUNCTIONALITY REGARDLESS OF ANY OMISSION TO SHOW OR MENTION THE NEED FOR SUCH MEASURES.

CONTRACTOR SHALL PROTECT AND MAINTAIN OPERATION OF ALL EXISTING UTILITIES WITHIN THE CONSTRUCTION AREA THROUGHOUT THE CONSTRUCTION PROCESS AND SHALL BE RESPONSIBLE FOR REPLACEMENT OF ALL EXISTING UTILITIES WHICH ARE DISTURBED "IN KIND" AS PART OF THE CONTRACT. CONTRACTOR SHALL COORDINATE ALL WORK ON UTILITIES WITH THE VARIOUS OWNERS THEREOF.

LOCATIONS OF PROPERTY LINES AND EXISTING STRUCTURES, SITE FEATURES, AND UNDERGROUND UTILITIES ARE DRAWN FROM BEST AVAILABLE AS-BUILT DATA. THIS DOES NOT GUARANTEE LOCATIONS, ELEVATIONS ARE EXACT OR COMPLETE.

CONTRACTOR SHALL VERIFY LOCATION AND INVERT ELEVATIONS OF ALL EXISTING UTILITIES AND FEATURES IN THE AREA AFFECTED BY PROJECT WORK. NOTIFY ENGINEER IF LOCATION OR ELEVATION IS OTHER THAN INDICATED ON PLANS **PRIOR TO COMMENCEMENT OF WORK.**

CONTRACTOR SHALL REQUEST LOCATES OF ALL UTILITIES AT LEAST **48 HOURS** IN ADVANCE PRIOR TO COMMENCING EXCAVATION AND COMPLY WITH O.A.R. 952-001-0010 THROUGH O.A.R. 952-001-0090.

DOWNTIME FOR UTILITIES SHALL BE HELD TO A MINIMUM AND TEMPORARY BYPASSES SHALL BE PROVIDED WHERE REQUIRED TO MAINTAIN PROPER SERVICE.

ALL EXISTING UTILITY FEATURES (VAULTS, BOXES, RIMS, CLEANOUTS, ETC.) IN CONFLICT WITH PROPOSED GRADING PLAN SHOULD BE RAISED OR LOWERED ACCORDINGLY, WHETHER INDICATED ON PLANS OR NOT.

CONTRACTOR SHALL MAINTAIN APPROVED DRAWINGS/PERMITS ON-SITE AT ALL TIMES.

INSTALL ALL UTILITIES **PRIOR** TO PAVING/GRAVELING.

WORK SCHEDULE SHALL BE COORDINATED WITH THE PROPERTY OWNER, LOCAL ORDINANCES, AND BUSINESSES WHEREVER APPLICABLE.

THE SUPERINTENDENT SHALL SECURE ANY EXCAVATIONS AND TRAFFIC CONTROL AT ALL TIMES. ON-DUTY AND OFF-DUTY CONTACTS AND PHONE NUMBERS FOR THE CONTRACTOR SHALL BE FURNISHED TO THE PROPERTY OWNER PRIOR TO COMMENCEMENT OF CONSTRUCTION.

ANY EXISTING IMPROVEMENTS FOUND DAMAGED SHALL BE REPLACED TO THE SATISFACTION OF THE DIRECTOR OF PUBLIC WORKS.

SITE CONSTRUCTION PRACTICES SHALL BE IN ACCORDANCE WITH OSHA REGULATIONS. CONTRACTOR SHALL MAINTAIN ON-SITE, LEGIBLE MATERIAL SAFETY DATA SHEETS FOR ALL HAZARDOUS MATERIALS USED ON-SITE.

THE CONTRACTOR SHALL GIVE THE APPROPRIATE INSPECTION AGENCY **TWO (2) WORKING DAYS** ADVANCE NOTICE WHEN REQUESTING INSPECTIONS, STREET IMPROVEMENT PERMITS INSPECTION-(503) 823-7012.

ANY REVISIONS MADE TO APPROVED PLANS REQUIRE APPROVAL BY THE APPROPRIATE AGENCY AND THE ENGINEER-OF-RECORD IN WRITING PRIOR TO IMPLEMENTATION.

RECYCLE WASTE BUILDING MATERIALS WHEREVER POSSIBLE.

DUST SHALL BE CONTROLLED AT ALL TIMES BY WATERING. DIRT DEBRIS, TRASH OR OTHER CONSTRUCTION MATERIAL SHALL BE CONTAINED WITHIN CONSTRUCTION BOUNDARIES AT ALL TIMES AND SHALL BE CLEANED AND REMOVED DAILY AS NECESSARY. CONTRACTOR SHALL PREVENT CONSTRUCTION DIRT/DEBRIS FROM ENTERING EXISTING STORM DRAIN BY POSITIVE MEANS INFERRED WITHIN THE EROSION CONTROL PLAN.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT THE STATE OF OREGON WATER MASTER AT (503) 681-7018 TO APPROVE THE FILLING OF ANY SEPTIC TANKS & REMOVAL OF ANY EXISTING WELLS ENCOUNTERED.

CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF SUB-TRADES AND THEIR RESPECTIVE PERMITS INCLUDING ELECTRICAL, MECHANICAL, PLUMBING OR SPRINKLERS AS DICTATED BY PROJECT REQUIREMENTS. DISCREPANCIES FOUND AMONG ARCHITECTURAL, STRUCTURAL, CIVIL OR SUB-TRADE PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER-OF-RECORD FOR WRITTEN CLARIFICATION PRIOR TO CONSTRUCTION.

### CODES AND STANDARDS

IN CASE OF OVERLAPPING SPECIFICATIONS, CONTRACTOR SHALL ASSUME MOST STRINGENT APPLIES UNLESS NOTED OTHERWISE. REFER TO ENGINEER FOR WRITTEN DETERMINATION.

AMERICAN CONCRETE INSTITUTE ACI 318, CURRENT EDITION  
AMERICAN WATER WORKS ASSOCIATION STD. SPECIFICATIONS, CURRENT EDITIONS  
THE ASPHALT INSTITUTE MANUAL SERIES, CURRENT EDITIONS  
EROSION & SEDIMENTATION CONTROL TECHNICAL GUIDANCE HANDBOOK  
MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CURRENT EDITION  
NATIONAL ELECTRIC CODE, CURRENT EDITION  
OREGON D.O.T. STANDARD SPECIFICATIONS, CURRENT EDITION  
OREGON STATE PLUMBING SPECIALTY CODE, CURRENT EDITION  
OREGON STATE STRUCTURAL SPECIALTY CODE, CURRENT EDITION  
OREGON STATE ELECTRICAL CODE, CURRENT EDITION  
OREGON STATE MECHANICAL CODE, CURRENT EDITION  
OREGON STATE FIRE CODE, CURRENT EDITION  
OREGON CITY PUBLIC WORKS STANDARDS

# CITY OF OREGON CITY STANDARD NOTES

## GENERAL NOTES

- ALL WORK AND MATERIALS SHALL CONFORM TO MOST RECENT EDITION OF THE ODOT/APWA OREGON STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION AS ADOPTED AND MODIFIED BY THE CITY OF OREGON CITY.
- CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS AND LICENSES BEFORE STARTING CONSTRUCTION. A CITY BUSINESS LICENSE IS REQUIRED.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION AND ARRANGE FOR THE RELOCATION OF ANY UTILITIES IN CONFLICT WITH THE PROPOSED CONSTRUCTION. THE LOCATIONS, DEPTH AND DESCRIPTION OF EXISTING UTILITIES SHOWN WERE COMPILED FROM AVAILABLE RECORDS AND/OR FIELD SURVEYS. THE ENGINEER OR UTILITY COMPANIES DO NOT GUARANTEE THE ACCURACY OR THE COMPLETENESS OF SUCH RECORDS. ADDITIONAL UTILITIES MAY EXIST WITHIN THE WORK AREA.
- OREGON LAW REQUIRES THAT THE RULES ADOPTED BY OREGON UTILITY NOTIFICATION CENTER BE FOLLOWED. THOSE RULES ARE SET FORTH IN OAR 952-001-0090. YOU MAY OBTAIN COPIES OF THE RULES BY CALLING THE CENTER OR ACCESSING VIA INTERNET AT WWW.CALLBEFOREYOU.DIG.ORG OR CALL BEFORE YOU DIG (800) 332-2344.
- THE CONTRACTOR SHALL MAKE PROVISIONS TO KEEP ALL EXISTING UTILITIES IN SERVICE AND PROTECT THEM DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY REPAIR OR REPLACE ANY DAMAGED UTILITIES USING MATERIALS AND METHODS APPROVED BY THE UTILITY OWNER. NO SERVICE INTERRUPTIONS SHALL BE PERMITTED WITHOUT PRIOR WRITTEN AGREEMENT WITH THE UTILITY PROVIDER.
- CONTRACTOR SHALL NOTIFY PROJECT ENGINEER AND CITY OF OREGON CITY PUBLIC WORKS CONSTRUCTION INSPECTOR STAFF 48 HOURS IN ADVANCE OF STARTING CONSTRUCTION AND 24 HOURS BEFORE RESUMING WORK AFTER SHUTDOWNS, EXCEPT FOR NORMAL RESUMPTION OF WORK FOLLOWING SATURDAYS, SUNDAYS, OR HOLIDAYS.
- CONSTRUCTION VEHICLES INCLUDING TRAILERS SHALL PARK ON THE CONSTRUCTION SITE OR AT A LOCATION(S) INDICATED ON THE APPROVED PLAN. THIS INCLUDES ALL SUBCONTRACTORS' VEHICLES AND TRAILERS. HOURS OF CONSTRUCTION SHALL BE 7 AM TO 6 PM, MONDAY THROUGH FRIDAY; 9 AM TO 6 PM SATURDAY. CONSTRUCTION IS PROHIBITED ON SUNDAY. CONSTRUCTION ACTIVITIES INCLUDE ALL FIELD MAINTENANCE OF EQUIPMENT, REFUELING, AND PICK UP AND DELIVERY OF EQUIPMENT AS WELL AS THE ACTUAL CONSTRUCTION ACTIVITY.
- THE CONTRACTOR SHALL KEEP AN APPROVED SET OF PLANS ON THE PROJECT SITE AT ALL TIMES.
- UPON COMPLETION OF CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT "REDLINE DRAWINGS" TO PROJECT ENGINEER FOR PREPARATION OF RECORD DRAWINGS. "REDLINE DRAWINGS" DOCUMENT ALL DEVIATIONS AND REVISIONS TO THE APPROVED PLANS; THEY ALSO RECORD A DESCRIPTION OF CONSTRUCTION MATERIALS ACTUALLY USED (PIPE MATERIAL, ETC.). FROM THE INFORMATION CONTAINED ON THESE REDLINE DRAWINGS, AS WELL AS ANY NOTES RECORDED BY THE PROJECT ENGINEER, THE PROJECT ENGINEER SHALL PREPARE AND SUBMIT RECORD DRAWINGS TO PUBLIC WORKS ENGINEERING DEVELOPMENT SERVICES (PAPER COPY FIRST FOR CITY APPROVAL AND THEN HIGH RESOLUTION ELECTRONIC PDF FILE AS DIRECTED BY CITY STAFF). RECORD DRAWINGS ARE REQUIRED FOR ANY PUBLIC IMPROVEMENTS, AS WELL AS FOR ANY (PUBLIC OR PRIVATE) STORMWATER MANAGEMENT QUANTITY OR QUALITY CONTROL FACILITY. CITY ACCEPTANCE OF ANY PUBLIC IMPROVEMENTS ARE TIED TO THE SUBMITTAL OF THESE RECORD DRAWINGS. CAD-GENERATED PLANS SHALL ALSO HAVE ELECTRONIC RECORD DRAWINGS SUBMITTED TO THE CITY IN COMPLIANCE WITH THE DIGITAL MAPPING REQUIREMENTS. COMPLY WITH LATEST CITY STANDARD FOR AS-BUILT RECORD DRAWINGS AND SURVEY.
- CONTRACTOR SHALL ERECT AND MAINTAIN TEMPORARY TRAFFIC CONTROL PER THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), PART 6, AND DEVIATIONS TO THE MUTCD AS ADOPTED AND MODIFIED BY ODOT. SHOULD WORK BE IN AN EXISTING PUBLIC RIGHT OF WAY THAT IS OPEN TO TRAFFIC, THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO APPROPRIATE CITY, COUNTY, AND STATE PERSONNEL FOR APPROVAL. APPROVALS SHALL BE OBTAINED PRIOR TO START OF WORK.
- THE CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO COMPLETE THIS PROJECT IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS INCLUDING SUCH INCIDENTALS AS MAY BE NECESSARY TO MEET THE INTENT OF THE PROJECT CONTRACT DOCUMENTS, APPLICABLE AGENCY REQUIREMENTS AND OTHER WORK AS NECESSARY TO PROVIDE A COMPLETE PROJECT.
- THERE SHALL BE NO ALTERATION OR VARIANCE FROM THE APPROVED PLANS. THE MINIMUM SUBMITTAL REQUIREMENTS FOR PLAN REVISIONS ARE AS FOLLOWS:
  - PLAN REVISIONS SHALL BE SUBMITTED ON AN 8 1/2"x11" SHEET MINIMUM WITH A 2" BY 2" BLOCK SPACE FOR CITY APPROVAL; AND
  - PLAN REVISION SHALL BE WET STAMPED AND SIGNED BY PROJECT ENGINEER, AND
  - ANY REQUIRED ENGINEERING CALCULATIONS, OR OTHER AGENCY APPROVALS, SHALL BE INCLUDED WITH THE SUBMITTED REVISION.
  - UPON APPROVAL OF THE SUBMITTED REVISIONS, THE CITY ENGINEER SHALL AFFIX AN APPROVAL STAMP TO THE REVISED PLAN SKETCH AND THE PLAN SHALL BE RETURNED TO THE PROJECT ENGINEER. IT IS THE RESPONSIBILITY OF THE PROJECT ENGINEER TO DISTRIBUTE THE APPROVED PLAN REVISION TO ALL PARTIES TO WHOM THE ORIGINAL APPROVED PLANS WERE ISSUED. ALL APPROVED REVISIONS SHALL BE AFFIXED TO THE CONSTRUCTION FIELD PRINTS (ALSO KNOWN AS THE CONTRACTOR'S "REDLINE DRAWINGS").
- CONTRACTOR SHALL PROVIDE EFFECTIVE EROSION PROTECTION TO INCLUDE, BUT NOT LIMITED TO, GRADING, DITCHING, HAY BALES, SILT FENCING, AND SEDIMENT BARRIERS TO MINIMIZE EROSION AND IMPACT TO ADJACENT PROPERTY. SEE SEPARATE EROSION AND SEDIMENT CONTROL NOTES AND APPROVED PLANS.
- OPEN TRENCHES SHALL BE STRICTLY LIMITED TO A MAXIMUM OF 100 LINEAR FEET WITHIN ACTIVE STREET RIGHTS-OF-WAY UNLESS LIMITED TO A LESSER AMOUNT BY PERMIT. NO TRENCHES WILL BE ALLOWED TO REMAIN OPEN OVERNIGHT. USE OF STEEL PLATES OVERNIGHT SHALL BE KEPT TO A MINIMUM AND IF USED SHALL BE FIRMLY SECURED WITH PINS AND COLD OR HOT A/C MIX.
- CONTRACTOR SHALL MAINTAIN AND COORDINATE ACCESS TO ALL AFFECTED PROPERTIES.
- ANY PAVEMENT DISTORTION CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE TEMPORARILY REPAIRED SAME DAY OF OCCURRENCE (OR IN A TIME PERIOD AGREED TO WITH THE CITY INSPECTOR), USING COLD OR HOT A/C MIX. OWNER/CONTRACTOR SHALL BE REQUIRED TO MAINTAIN REPAIRED AREAS UNTIL CITY FINAL ACCEPTANCE IS GRANTED.
- IF GROUND WATER SPRINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL IMMEDIATELY CONTACT THE PROJECT ENGINEER. THE PROJECT ENGINEER SHALL DIRECT THE CONTRACTOR TO TAKE MEASURES TO ENSURE THAT WATER IS NOT CONVEYED THROUGH UTILITY TRENCHES AND THE NATURAL FLOW PATH OF THE SPRING IS ALTERED AS LITTLE AS PRACTICABLE. THE PROJECT ENGINEER SHALL SUBMIT A REPORT SUMMARIZING THE FINDING TO THE CITY. IMPACTS AND MITIGATION SHALL BE ADDRESSED FOR CITY APPROVAL.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE AND VERIFY ALL EXISTING CONDITIONS BEFORE THE START OF WORK. THE CONTRACTOR SHALL TAKE ALL NECESSARY FIELD MEASUREMENTS AND OTHERWISE VERIFY ALL DIMENSIONS AND EXISTING CONSTRUCTION CONDITIONS INDICATED AND/OR SHOWN ON THE PLANS. SHOULD ANY ERROR OR INCONSISTENCY EXIST, THE CONTRACTOR SHALL NOT PROCEED WITH THE WORK AFFECTED UNTIL REPORTED TO THE PROJECT ENGINEER FOR CLARIFICATION OR CORRECTION.
- ANY INSPECTION BY THE CITY, COUNTY, STATE, FEDERAL AGENCY OR PROJECT ENGINEER SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN COMPLIANCE WITH THE APPLICABLE CODES, REGULATIONS, CITY STANDARDS AND PROJECT CONTRACT DOCUMENTS.
- PROJECT PLANS SHALL ALWAYS HAVE AN ENGINEER-OF-RECORD PERFORMING THE FUNCTION OF PROJECT ENGINEER. IF THE PROJECT ENGINEER IS CHANGED DURING THE COURSE OF THE WORK, THE CITY SHALL BE NOTIFIED IN WRITING AND THE WORK SHALL BE STOPPED UNTIL THE REPLACEMENT ENGINEER HAS AGREED TO ACCEPT THE RESPONSIBILITIES OF THE PROJECT ENGINEER. THE NEW PROJECT ENGINEER SHALL PROVIDE WRITTEN NOTICE OF ACCEPTING PROJECT RESPONSIBILITY TO THE CITY WITHIN 72 HOURS OF ACCEPTING THE POSITION AS PROJECT ENGINEER.
- FOR UTILITY TRENCHES 12- FEET IN DEPTH AND UNDER; COMPLETE A MINIMUM OF ONE COMPACTION DENSITY TEST AT APPROXIMATELY ONE HALF OF THE TRENCH DEPTH AND AN ADDITIONAL TEST AT OR NEAR THE SURFACE. FOR TRENCHES OVER 12- FEET IN DEPTH; COMPLETE ONE COMPACTION DENSITY TEST AT APPROXIMATELY 4- FEET ABOVE THE PIPE, ONE TEST AT OR NEAR THE SURFACE AND ONE ADDITIONAL TEST APPROXIMATELY HALF WAY IN BETWEEN. COMPACTION DENSITY TESTS SHALL BE PERFORMED AT A MINIMUM EVERY 100 FEET.

## ENGINEERED GRADING NOTES

- PROJECT GRADING LIMITS SHALL BE WITHIN THE PROJECT'S PROPERTY BOUNDARY AND/OR STREET RIGHT-OF-WAY, UNLESS OTHERWISE SHOWN ON PLANS. NO GRADING SHALL BE CONDUCTED IN WETLANDS OR OTHER ENVIRONMENTALLY SENSITIVE AREAS UNLESS SPECIFICALLY SHOWN ON THE APPROVED PLANS.
- THE IDENTIFICATION OR REMOVAL OF UNSUITABLE MATERIAL SHALL BE DONE WITH CONSULTATION WITH THE PROJECT ENGINEER OR PROJECT'S GEOTECHNICAL ENGINEER.
- REMOVE AND DISPOSE OF ALL ORGANIC AND/OR UNSUITABLE MATERIALS, INCLUDING TREES, STUMPS, ROOTS, BRUSH, AND GRASS IN SUCH A MANNER TO MEET ALL APPLICABLE REGULATIONS. ON-SITE DISPOSAL SHALL BE AS DETERMINED BY THE PROJECT ENGINEER OR PROJECT'S GEOTECHNICAL ENGINEER.
- STOCKPILE EXCESS SOIL MATERIAL ON-SITE AS DIRECTED BY THE PROJECT ENGINEER, PROJECT'S GEOTECHNICAL ENGINEER, OR APPROVED PLANS (UNLESS APPROVED PLANS IDENTIFY EXCESS EXCAVATION IS TO BE REMOVED FROM THE SITE).
- THE CONTRACTOR SHALL PROTECT ALL TREES NOT SPECIFICALLY SHOWN TO BE REMOVED ON APPROVED PLANS.
- THE CONSTRUCTION OF STRUCTURAL FILLS AND/OR EXCAVATIONS CONNECTED WITH ANY PUBLIC IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THE WRITTEN RECOMMENDATIONS MADE BY THE PROJECT'S GEOTECHNICAL ENGINEER IN AN APPROVED REPORT
- IF DUSTY CONDITIONS EXIST, THE PERMITTEE SHALL APPLY A FINE SPRAY OF WATER ON THE SURFACE TO CONTROL THE DUST.
- ENGINEERED FILL IN THE BUILDING ENVELOPE SHALL BE CERTIFIED BY THE PROJECT GEOTECHNICAL ENGINEER. THIS CERTIFICATION SHALL BE SENT TO THE CITY BUILDING OFFICIAL UPON SUBMISSION OF THE BUILDING PERMIT IF IT HAS NOT ALREADY BEEN RECEIVED BY THE CITY BUILDING OFFICIAL.

## SANITARY SEWER NOTES

- ALL TRENCH EXCAVATION SHALL BE IN CONFORMANCE WITH OREGON CITY STANDARD DRAWING FOR PIPE BEDDING AND BACKFILL, AND SHALL BE CLASSIFIED AS EITHER ROCK OR COMMON EXCAVATION. ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF TO AN APPROVED SITE.
- PIPE BEDDING AND TRENCH BACKFILL MAY BE CLASS A ON ALL SEWER LINES OUTSIDE PUBLIC STREETS OR OUTSIDE OF PAVED AREAS. TRENCH BACKFILL SHALL BE CLASS B IN ALL PUBLIC STREETS OR PAVED AREAS IN THE PROJECT AS OUTLINED IN OREGON CITY STANDARD DRAWING FOR PIPE BEDDING AND BACKFILL. THE CLASS B BACKFILL SHALL EXTEND A MINIMUM OF THREE FEET (3') BEYOND THE EDGE OF STREET OR HARD SURFACED AREAS. CDF BACKFILL MAY BE REQUIRED INSTEAD OF CLASS B AS APPLICABLE PER OREGON CITY PAVEMENT CUT STANDARD.
- TRENCH BACKFILL COMPACTION SHALL BE 95% OF AASHTO T-180 MODIFIED PROCTOR FROM TOP OF PIPE ZONE UP TO ROAD BASE. CONTRACTOR TO DETERMINE TYPE OF EQUIPMENT AND METHOD TO USE TO ACHIEVE THE REQUIRED COMPACTION. 95% COMPACTION, AASHTO T-180, IS REQUIRED IN PUBLIC STREETS AND PAVED AREAS, 85% COMPACTION OF AASHTO T-99 IN NON-PAVED OR UNIMPROVED AREAS.
- SUBSEQUENT SETTLEMENT OF THE FINISHED SURFACE WITHIN THE WARRANTY PERIOD SHALL BE CONSIDERED TO BE A RESULT OF IMPROPER COMPACTION AND SHALL BE PROMPTLY REPAIRED BY THE CONTRACTOR AT NO EXPENSE TO THE CITY OF OREGON CITY.
- MANHOLE WORKMANSHIP: ALL MANHOLES SHALL BE CONSTRUCTED IN ACCORDANCE WITH APWA/ODOT OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION AND ALL APPLICABLE OREGON CITY STANDARD DRAWINGS.
- ALL SANITARY SEWER SERVICE LATERALS SHALL HAVE A 2-WAY CLEANOUT AT THE RIGHT-OF-WAY LINE PER OREGON CITY STANDARD DRAWINGS.

## WATER SYSTEM NOTES

- ALL WORK AND MATERIALS SHALL COMPLY WITH THE APPLICABLE SECTIONS OF CITY OF OREGON CITY PUBLIC WORKS STANDARDS, OREGON STATE HEALTH DIVISION ADMINISTRATIVE RULES, CHAPTER 333, RECENT EDITION OF AWWA STANDARD SPECIFICATIONS AND ODOT/APWA STANDARD SPECIFICATIONS FOR CONSTRUCTION.
- COPPER TUBING SHALL BE TYPE "K" SOFT FOR 1" SERVICE LINES WITH A 5/8x3/4" OR 3/4" OR 1" WATER METER. COPPER SHALL BE RIGID FOR 2" SERVICE LINES WITH EITHER A 1-1/2" OR 2" WATER METER.
- ALL WATER METERS TO BE INSTALLED BY THE CITY OF OREGON CITY WATER DEPARTMENT.
- ALL TRENCH EXCAVATION SHALL BE IN CONFORMANCE WITH OREGON CITY STANDARD DRAWING FOR PIPE BEDDING AND BACKFILL, AND SHALL BE CLASSIFIED AS EITHER ROCK OR COMMON EXCAVATION. ALL EXCESS MATERIAL FROM THE TRENCH EXCAVATION SHALL BE DISPOSED OF TO AN APPROVED SITE.
- PIPE BEDDING AND TRENCH BACKFILL MAY BE CLASS A ON ALL WATER LINES OUTSIDE PUBLIC STREETS OR OUTSIDE OF PAVED AREAS. TRENCH BACKFILL SHALL BE CLASS B IN ALL PUBLIC STREETS OR PAVED AREAS IN THE PROJECT AS OUTLINED IN OREGON CITY STANDARD DRAWING FOR PIPE BEDDING AND BACKFILL. THE CLASS B BACKFILL SHALL EXTEND A MINIMUM OF THREE FEET (3') BEYOND THE EDGE OF STREET OR HARD SURFACED AREAS. CDF BACKFILL MAY BE REQUIRED INSTEAD OF CLASS B AS APPLICABLE PER OREGON CITY PAVEMENT CUT STANDARD.
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City of Oregon City Public Works Department	
APPROVED FOR CONSTRUCTION	
<input type="checkbox"/> Approved as Submitted <input checked="" type="checkbox"/> Approved as Noted in Red	
By: <u>Sampton</u>	
Date: <u>06/07/2019</u>	

AS-BUILT NUMBER: 100139.01



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CONSULTANTS, INC.**

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facsimile 503 762 1962



CLIENT

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503-805-1774

PROJECT

**CANEMAH  
RESIDENCE**

SITE ADDRESS

**413 4TH AVE  
OREGON CITY, OR 97045**

SHEET NAME

**CITY OF OREGON CITY  
STANDARD NOTES**

REVISION

- △ 1/8/19 SHEET ADDED PER PW COMMENTS
- △ 4/9/19 GENERAL REVISIONS
- △
- △
- △
- △

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34T.DWG**

PROJECT NUMBER **17-34**

**SHEET 2**

**C0**

OF 11 SHEETS



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CONSULTANTS, INC.

12805 s.e. foster road  
portland, oregon 97236  
phone 503 760 1353  
facsimile 503 762 1962



CLIENT

DAVE GREEN  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

CANEMAH  
RESIDENCE

SITE ADDRESS

413 4TH AVE  
OREGON CITY, OR 97045

SHEET NAME

SITE PLAN

REVISION

- 2 12/11/17 ADDED RPZ's
- 3 12/19/17 ISSUED FOR GHR
- 4 6/22/18 GENERAL REVISIONS
- 5 10/3/18 ISSUED FOR PERMIT
- 6 1/8/19 REVISED PER PW COMMENTS
- 7 4/9/19 REVISED PER PW COMMENTS

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c.DWG**

PROJECT NUMBER **17-34**

SHEET 3

OF 11 SHEETS

C1

### PAVING NOTES

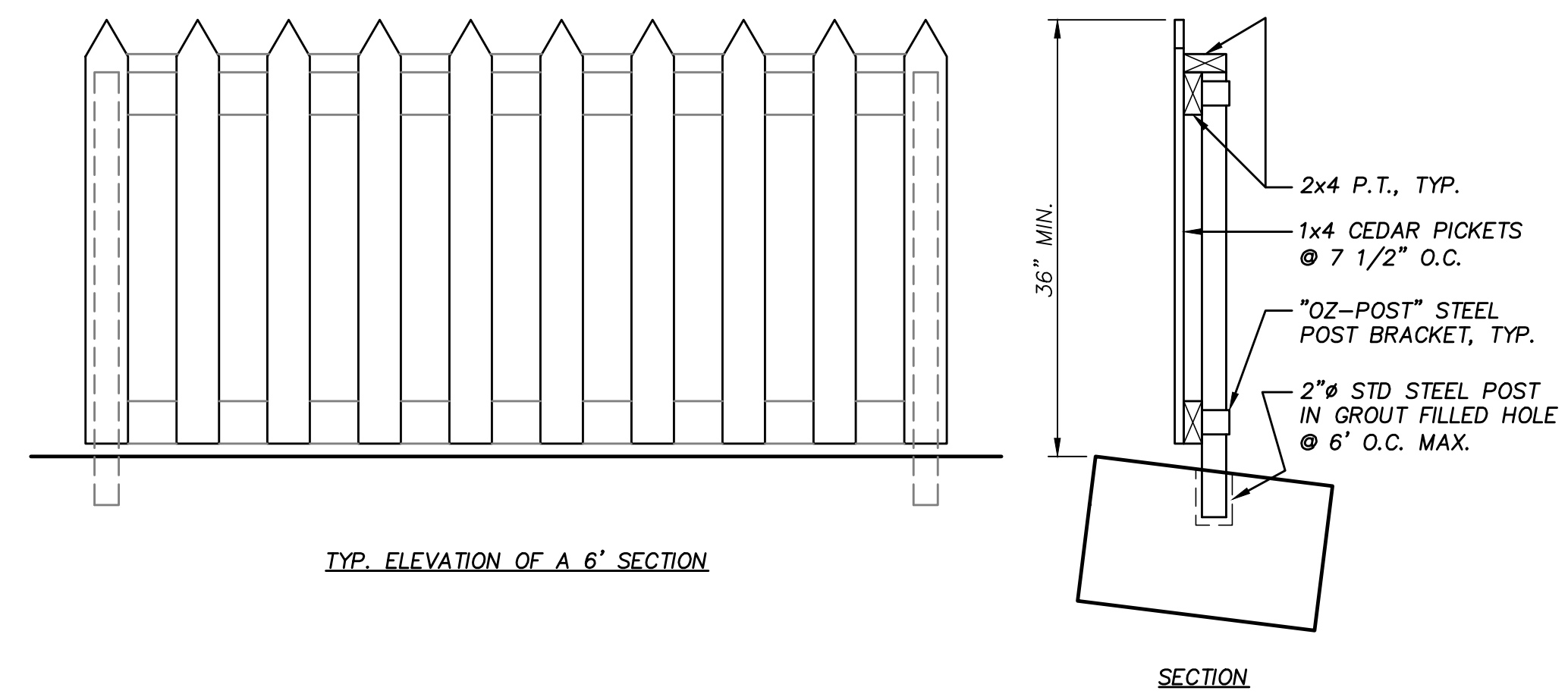
- TACK COAT ALL VERTICAL SURFACES PRIOR TO PAVING. COMMENCE PAVING ONLY WHEN TEMPERATURE WILL BE 59° F OR GREATER FOR THE DURATION OF THE OPERATION.
- BASE ROCK SHALL BE COMPACTED TO 98% OF ASTM D698. 1" (-) ODOT BASE AGGREGATE MAY BE SUBSTITUTED FOR TOTAL THICKNESS OF ROCK LEVELING COURSE AND AGGREGATE SPECIFIED.
- ASPHALT CONCRETE PAVEMENT SHALL BE COMPACTED TO AN AVERAGE OF 91% OF MAXIMUM RELATIVE DENSITY OR BE SUBJECT TO REJECTION. (RICE METHOD)

### CONCRETE NOTES

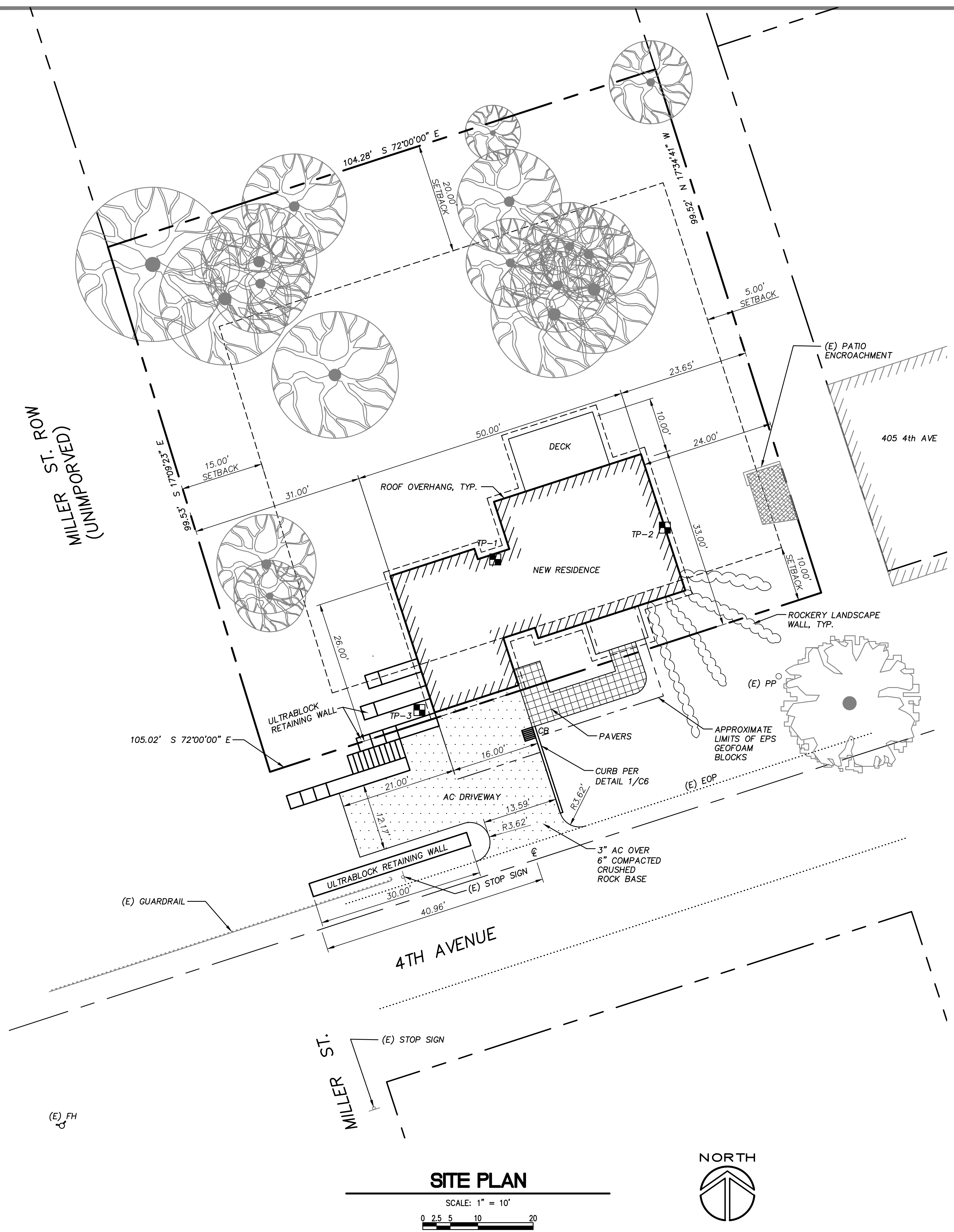
- MINIMUM 3000 PSI 28 DAY COMPRESSIVE STRENGTH FOR ALL POURED-IN-PLACE SITE CONCRETE (5 SACK MIX MIN.)
- AIR ENTRAIN ALL EXPOSED CONCRETE TO 5%-7%.
- 4" MAXIMUM SLUMP.
- DO NOT PLACE CONCRETE ON FROZEN BASE.
- PROTECT CONCRETE FROM ANY TYPE OF WEATHER DAMAGE PER ACI.

### DISTURBANCE AREA SUMMARY

STRIPPING AREA:	6,504 S.F.
PAVEMENT AREA:	744 S.F.
PAVER AREA:	161 S.F.
ROOF AREA:	1,664 S.F.
4,000 S.F. > 2,543 S.F.	



1 PICKET FENCE DETAIL  
SCALE: 1" = 1'-0" 17-34-05



### SITE PLAN

SCALE: 1" = 10'  
0 2.5 5 10 20

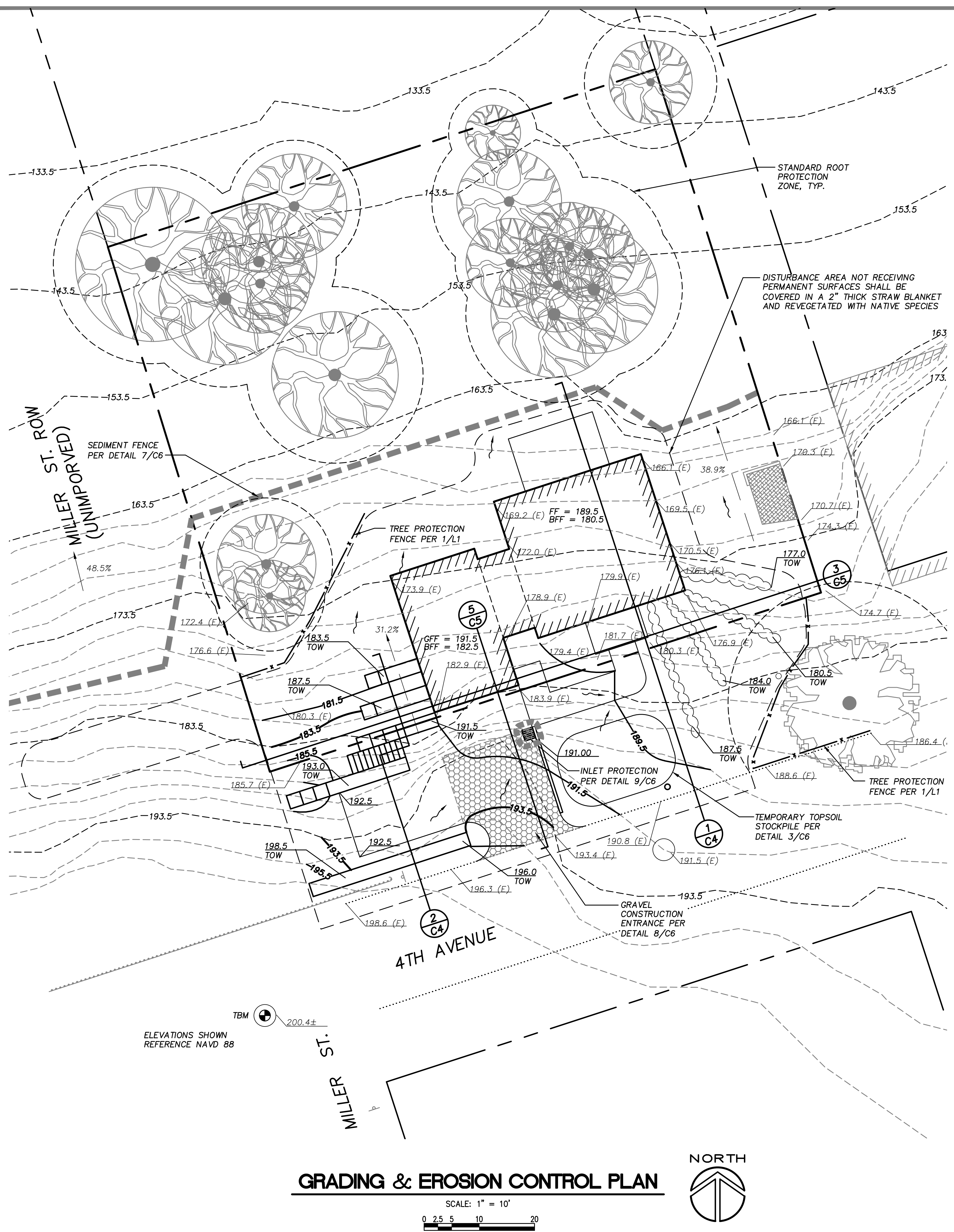


City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Samson*  
Date: 06/07/2019

AS-BUILT NUMBER: 100139.02



**GRADING & EROSION CONTROL PLAN**

SCALE: 1" = 10'  
0 2.5 5 10 20



**EROSION CONTROL NOTES**

1. OWNER OR DESIGNATED PERSON SHALL BE RESPONSIBLE FOR PROPER INSTALLATION AND MAINTENANCE OF ALL EROSION AND SEDIMENT CONTROL MEASURES, IN ACCORDANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS.
2. THE IMPLEMENTATION OF THESE ESC PLANS AND CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THESE ESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS COMPLETED AND APPROVED BY THE LOCAL JURISDICTION, AND VEGETATION/LANDSCAPING ESTABLISHED. THE DEVELOPER SHALL BE RESPONSIBLE FOR MAINTENANCE AFTER THE PROJECT IS APPROVED.
3. THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN SHALL BE CLEARLY MARKED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE CLEARING LIMITS SHALL BE PERMITTED. THE MARKINGS SHALL BE MAINTAINED BY THE APPLICANT/CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
4. 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 DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
5. THE ESC FACILITIES SHOWN ON THIS PLAN ARE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING CONSTRUCTION PERIOD, THESE ESC FACILITIES SHALL BE UPGRADED AS NEEDED FOR UNEXPECTED STORM EVENTS AND TO ENSURE THAT SEDIMENT AND SEDIMENT LADEN WATER DOES NOT LEAVE THE SITE.
6. THE ESC FACILITIES SHALL BE INSPECTED DAILY BY THE APPLICANT/CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTIONING.
7. AT NO TIME SHALL SEDIMENT BE ALLOWED TO ACCUMULATE MORE THAN 1/3 THE BARRIER HEIGHT. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEANED PRIOR TO PAVING. THE CLEANING OPERATIONS SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
8. STABILIZED GRAVEL 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.
9. STORM DRAIN INLETS, BASINS, AND AREA DRAINS SHALL BE PROTECTED UNTIL PAVEMENT SURFACES ARE COMPLETED AND/OR VEGETATION IS RE-ESTABLISHED.
10. PAVEMENT SURFACES AND VEGETATION ARE TO BE PLACED AS RAPIDLY AS POSSIBLE.
11. SEEDING SHALL BE PERFORMED NO LATER THAN SEPTEMBER 1 FOR EACH PHASE OF CONSTRUCTION. ALL DISTURBED SOILS SHALL BE COVERED WITH VEGETATION SEED MIX OF 80% DWARF PERENNIAL RYE GRASS AND 20% CREEPING RED FESCUE, BY WEIGHT, APPLIED AT 100 LBS. PER ACRE.
12. IF THERE ARE EXPOSED SOILS OR SOILS NOT FULLY ESTABLISHED FROM OCTOBER 1ST THROUGH APRIL 30TH, THE WET WEATHER EROSION PREVENTION MEASURES WILL BE IN EFFECT. SEE THE EROSION PREVENTION AND SEDIMENT CONTROL PLANNING AND DESIGN MANUAL (CHAPTER 4) FOR REQUIREMENTS. A SEDIMENTATION POND WILL BE REQUIRED IF FINAL GRADING AND GROUND COVER IS NOT COMPLETED BY OCTOBER 1.
13. THE DEVELOPER SHALL REMOVE ESC MEASURES WHEN VEGETATION IS FULLY ESTABLISHED.

**GRADING NOTES**

1. ALL CUTS, FILLS, & COMPACTION TO BE AS DIRECTED AND INSPECTED BY PROJECT GEOTECHNICAL ENGINEER. SEE H.G. SCHLUCKER & ASSOCIATES REPORT DATED 6/5/2017.
2. GRADING, DRAINAGE IMPROVEMENTS OR OTHER LAND DISTURBANCES SHALL BE RESTRICTED TO BETWEEN MAY 1 AND OCTOBER 31, UNLESS EXTENDED BY THE CITY ENGINEER CONSISTENT WITH 17.44.  
  
THE APPLICANT SHALL SUBMIT A WORK SCHEDULE WHICH HAS BEEN REVIEWED AND APPROVED BY A LICENSED GEOTECHNICAL ENGINEER WITH REGARD TO THE VIABILITY OF COMPLETING NECESSARY PROJECT GOALS WITHIN THE AFOREMENTIONED TIME PERIOD.
3. GRADING PERMIT REQUIRED.

**EARTHWORK SUMMARY**

CUT: 115 C.Y.  
FILL: 476 C.Y.

EARTHWORK SCHEDULE	
MAY 1ST	START GROUND DISTURBANCE
MID MAY	START EXCAVATION
MID JUNE	START POURING FOUNDATION
END OF JUNE	FINISH BACKFILL

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Sampton*  
Date: 06/07/2019



**SYMONS ENGINEERING CONSULTANTS, INC.**

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phone 503 760 1353  
facsimile 503 762 1962



**CLIENT**

**DAVE GREEN**  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

**PROJECT**

**CANEMAH RESIDENCE**

**SITE ADDRESS**

**413 4TH AVE  
OREGON CITY, OR 97045**

**SHEET NAME**

**GRADING & EROSION CONTROL PLAN**

**REVISION**

- 2 12/19/17 ISSUED FOR GHR
- 3 6/22/18 GENERAL REVISIONS
- 4 10/3/18 ISSUED FOR PERMIT
- 5 1/8/19 REVISED PER PW COMMENTS
- 6 4/5/19 ISSUED FOR DESIGN COORD.
- 7 4/9/19 GENERAL REVISIONS

**ISSUE DATE APRIL 9, 2019**

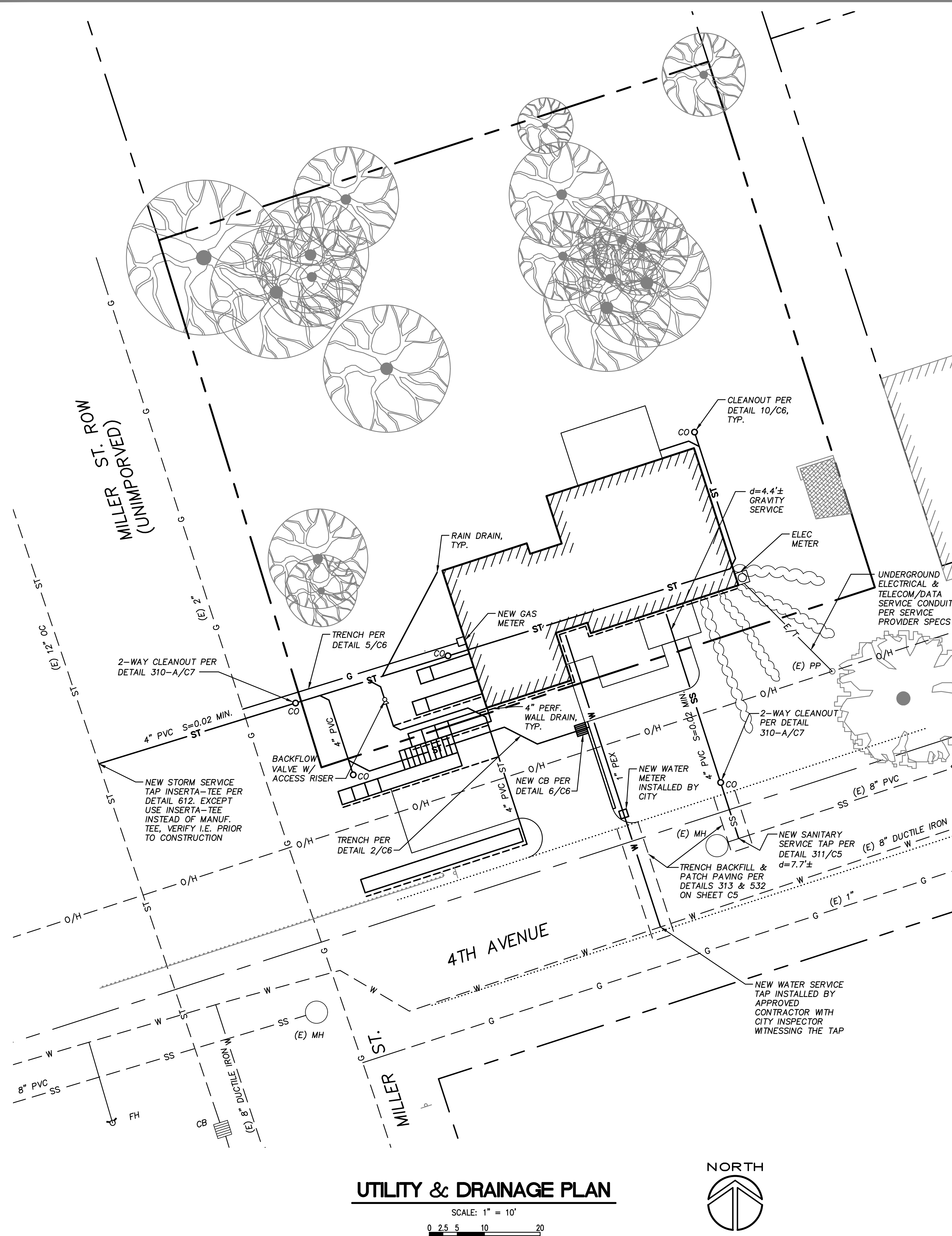
**DRAWING FILE 17-34c.DWG**

**PROJECT NUMBER 17-34**

**SHEET 4**

**OF 11 SHEETS**

**C2**



**UTILITY & DRAINAGE PLAN**

SCALE: 1" = 10'  
 0 2.5 5 10 20



**SEWER SPECIFICATIONS**

1. SANITARY PIPE MATERIAL: PVC, SDR 35, ASTM D3034.
2. STORM PIPE MATERIAL: PVC-SDR 35-ASTM D3034, ABS DRAIN PIPE, OR CORRUGATED POLYETHYLENE (ADS SMOOTHWALL). PVC NOT ALLOWED FOR INSTALLATIONS EXPOSED TO DAYLIGHT.
3. ALL CONSTRUCTION SHALL CONFORM WITH THE UNIFORM PLUMBING CODE WITH OREGON REVISIONS - CURRENT EDITION.
4. HORIZONTAL STORM AND SANITARY DRAINAGE PIPE SHALL BE PROVIDED WITH A TWO WAY CLEANOUT AT ITS UPPER TERMINAL AND EACH RUN OF PIPING WHICH IS MORE THAN 100' IN TOTAL DEVELOPED LENGTH, OR FRACTION THEREOF, IN LENGTH OF SUCH PIPING. ADDITIONALLY A TWO WAY CLEANOUT SHALL BE PROVIDED FOR EACH AGGREGATE HORIZONTAL CHANGE OF DIRECTION EXCEEDING 135 DEGREES.

**WATER LINE SPECIFICATIONS**

1. SERVICE LINE MAY BE ANY MATERIAL ALLOWED BY PLUMBING CODE, PEX RECOMMENDED FOR THIS INSTALLATION.
2. MIN. COVER: 36" BELOW FINISHED GRADE. MIN. SEPARATION: 1' ABOVE SANITARY SEWER CROSSINGS, 10' HORIZ. NEXT TO PARALLEL SEWER LINES.

**MISC. UTILITY SPECIFICATIONS**

1. WEAK TRENCH FOUNDATIONS AS DETERMINED BY THE INSPECTOR SHALL BE STABILIZED AT THE DIRECTION OF THE INSPECTOR.
2. ALL NONMETALLIC SERVICE PIPE RUNS SHALL INCLUDE A 12 GA. TRACER WIRE. SPLICES IN TRACER WIRE SHALL BE WATERPROOF. WIRE JACKET COLOR AS FOLLOWS:  
 BLUE WATER LINES  
 YELLOW GAS LINES  
 GREEN DRAIN LINES
3. BED AND BACKFILL MIN. 12" PIPE ZONE AROUND WATER, GAS, AND ELECTRICAL LINES LOCATED IN ROCKY SOILS WITH CLEAN SAND OR PEA GRAVEL.
4. PROVIDE MIN. COVER OF 18" TO FINISH GRADE AT GAS SERVICE LINES.



**SYMONS ENGINEERING CONSULTANTS, INC.**

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 portland, oregon 97236  
 phone 503 760 1353  
 facsimile 503 762 1962



**CLIENT**

**DAVE GREEN**  
 7537 SE 116TH AVE  
 PORTLAND, OR 97266  
 503-805-1774

**PROJECT**

**CANEMAH RESIDENCE**

**SITE ADDRESS**

**413 4TH AVE  
 OREGON CITY, OR 97045**

**SHEET NAME**

**UTILITY & DRAINAGE PLAN**

**REVISION**

2	12/11/17	ADDED RPZ's, REVISE STS
3	12/19/17	ISSUED FOR GHR
4	6/22/18	GENERAL REVISIONS
5	10/3/18	ISSUED FOR PERMIT
6	1/8/19	REVISED PER PW COMMENTS
7	4/9/19	GENERAL REVISIONS

**ISSUE DATE**

**APRIL 9, 2019**

**DRAWING FILE**

**17-34c.DWG**

**PROJECT NUMBER**

**17-34**

**SHEET 5**

**OF 11 SHEETS**

**C3**

City of Oregon City  
 Public Works Department  
 APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: Samson  
 Date: 06/07/2019

AS-BUILT NUMBER: 100139.04



**SYMONS ENGINEERING CONSULTANTS, INC.**

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portland, oregon 97236  
phone 503 760 1353  
facsimile 503 762 1962



CLIENT

**DAVE GREEN**  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

**CANEMAH RESIDENCE**

SITE ADDRESS

**413 4TH AVE  
OREGON CITY, OR 97045**

SHEET NAME

SECTIONS

REVISION

- 2 12/19/17 ISSUED FOR GHR
- 3 6/22/18 REVISED FOR GHR
- 4 10/3/18 ISSUED FOR PERMIT
- 5 1/8/19 REVISED PER PW COMMENTS
- 6 4/5/19 ISSUED FOR DESIGN COORD.
- 7 4/9/19 GENERAL REVISIONS

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c.DWG**

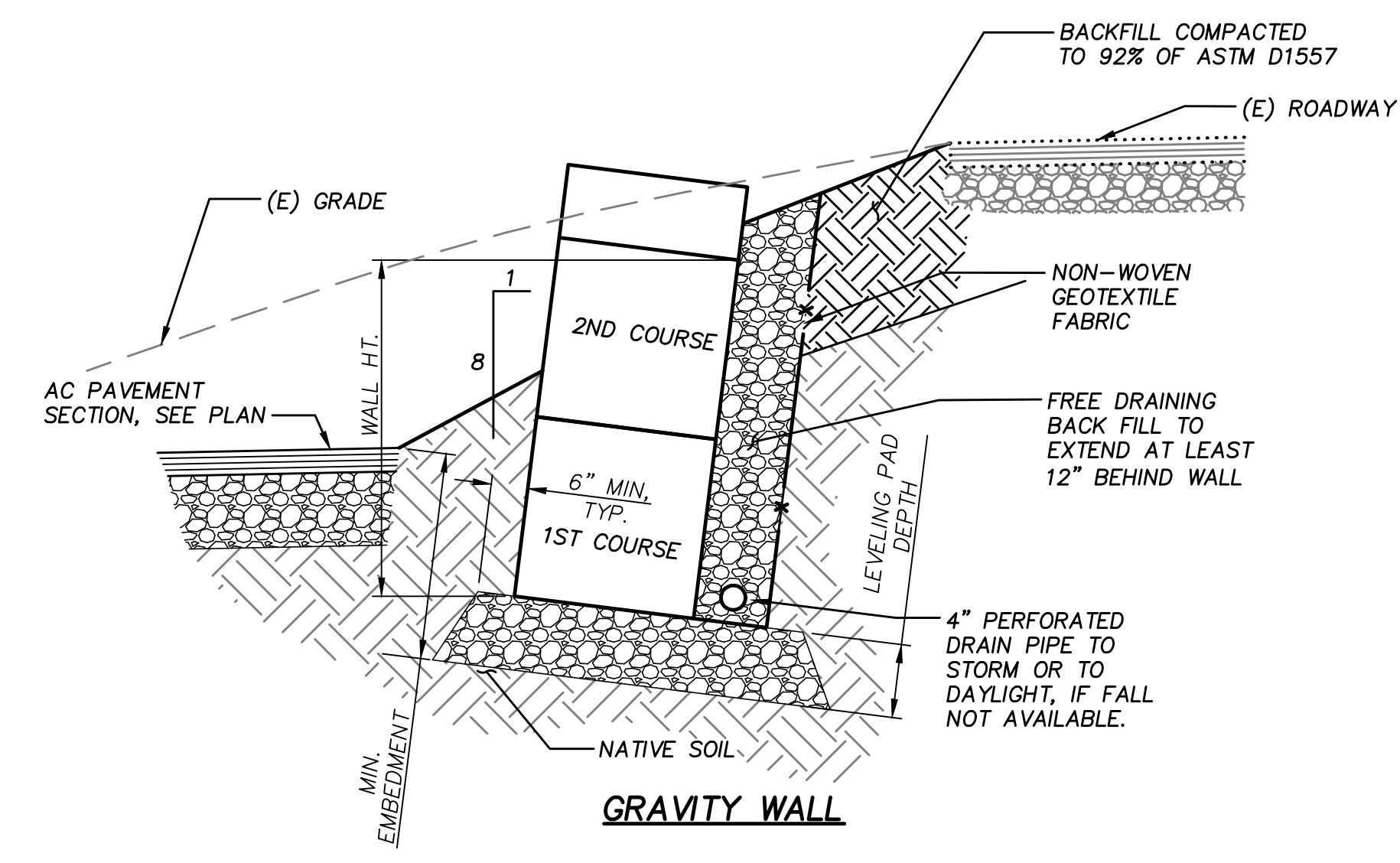
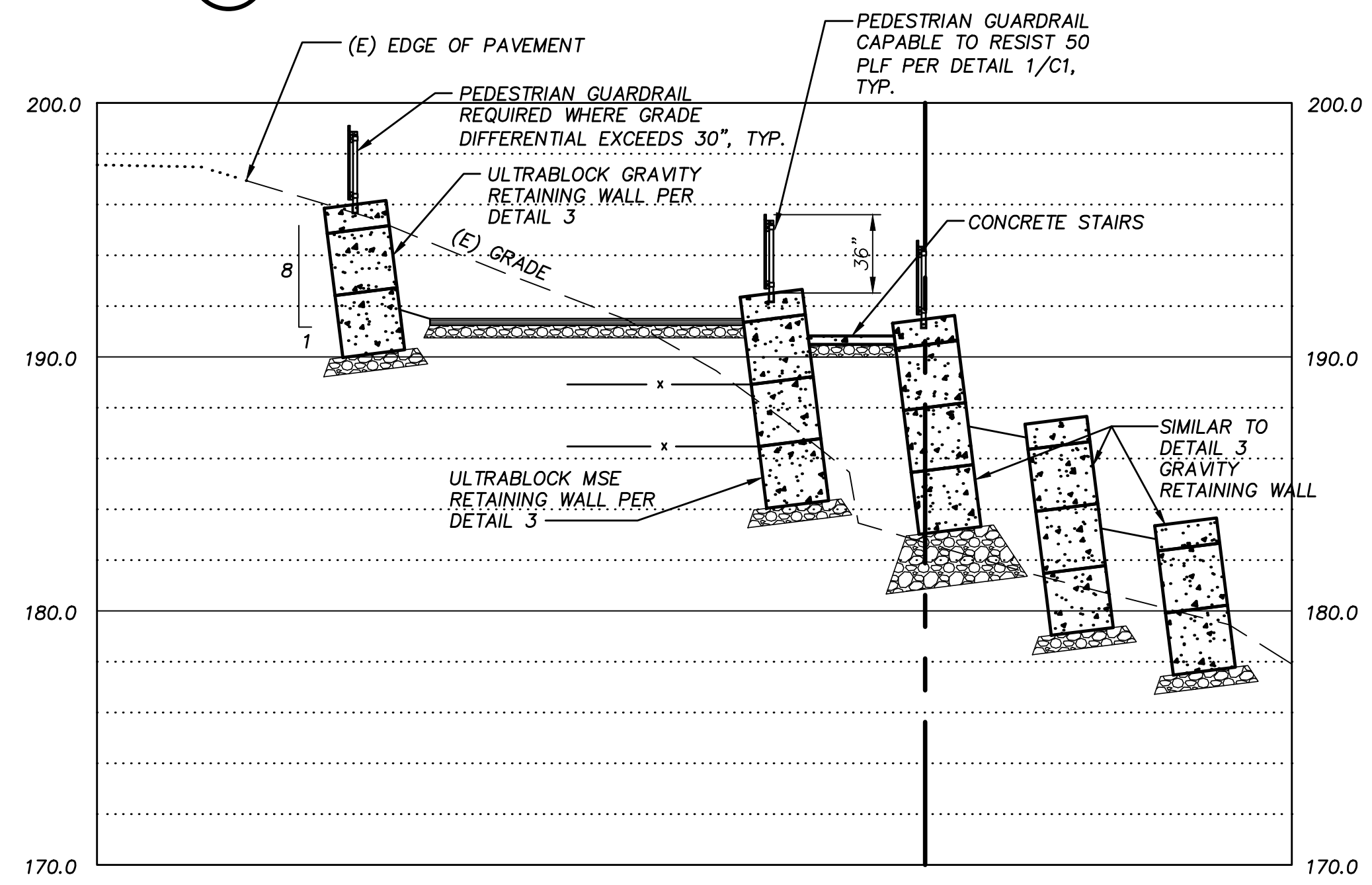
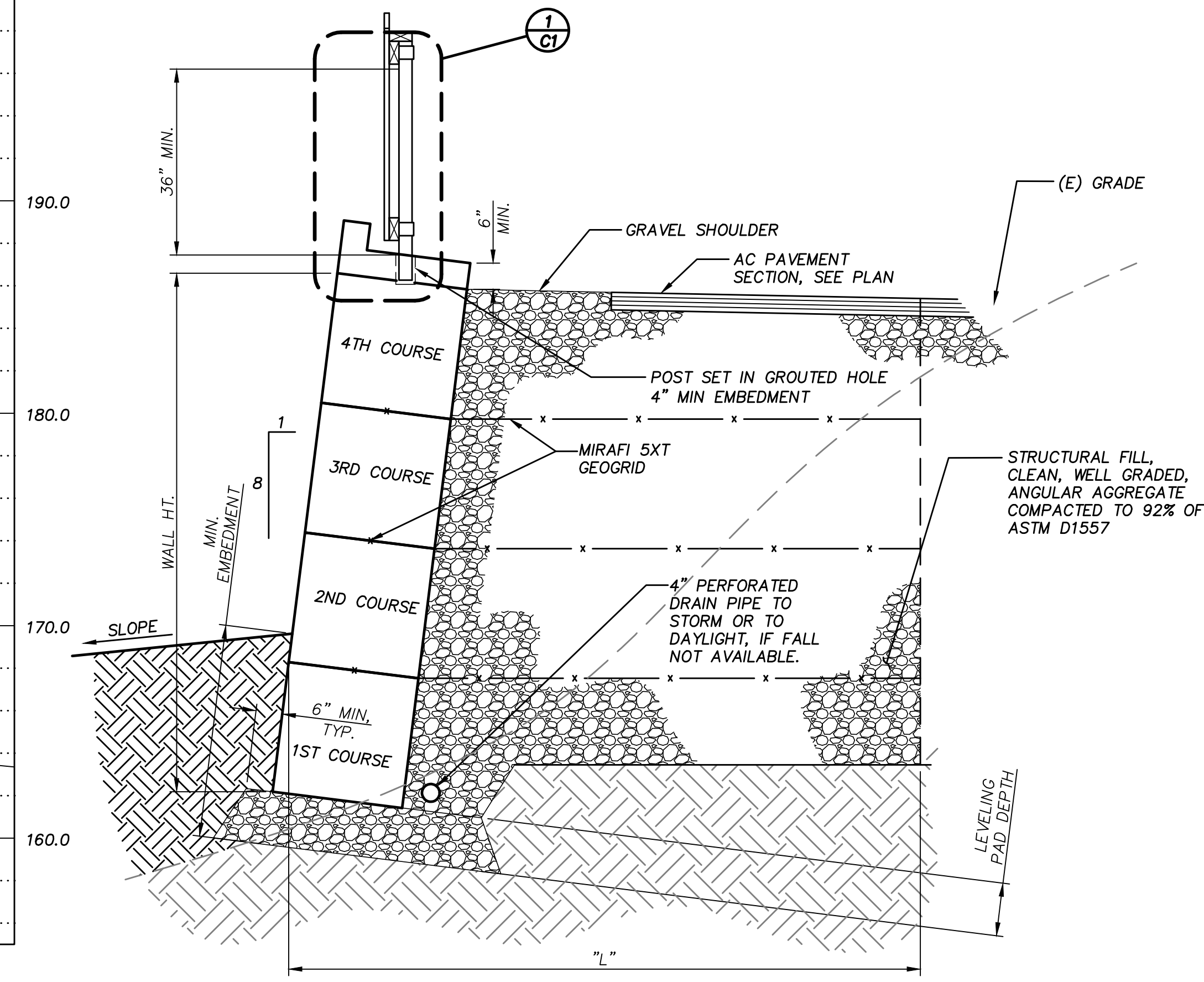
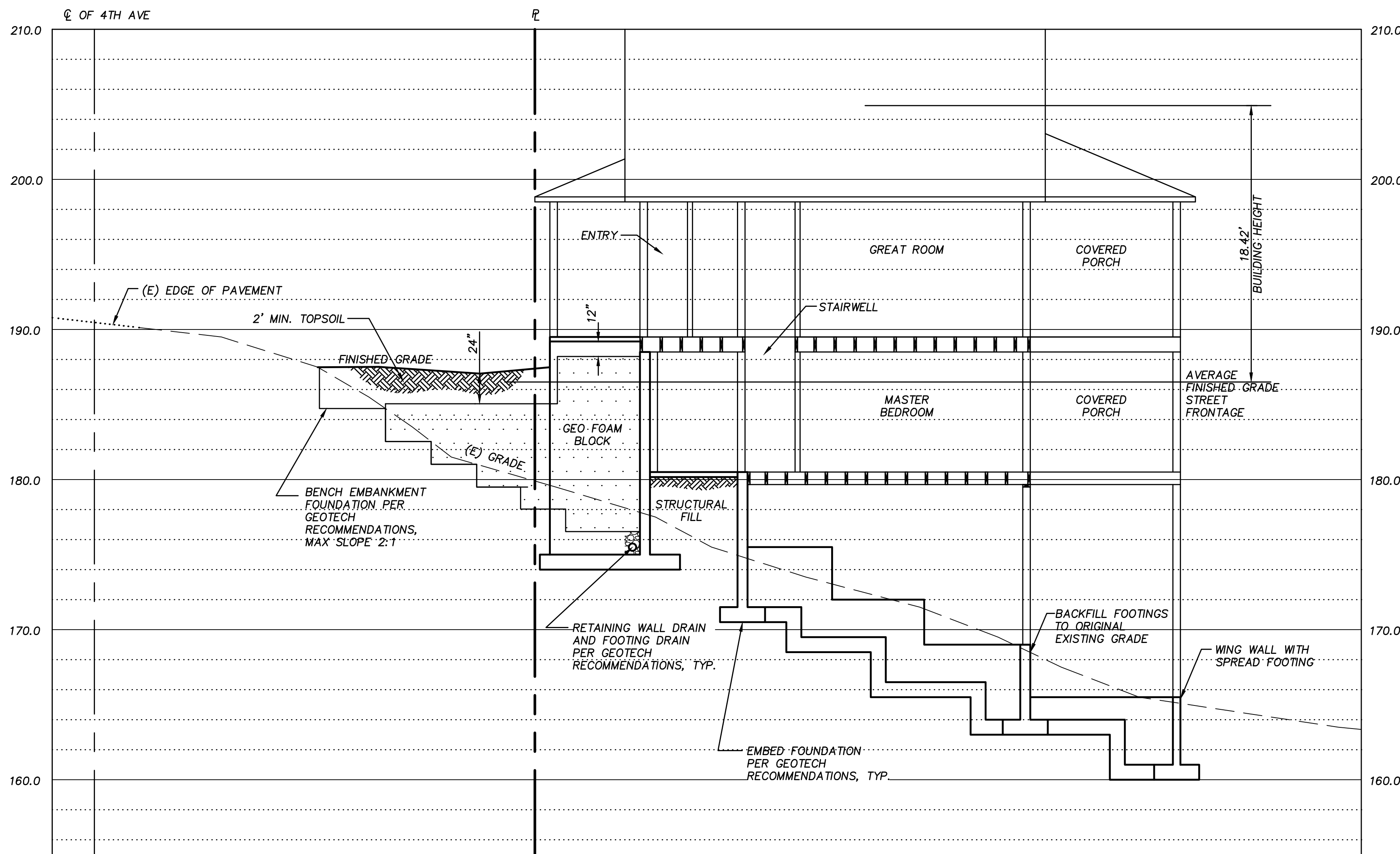
PROJECT NUMBER **17-34**

SHEET **6**

OF 11 SHEETS

**C4**

ULTRABLOCK WALL TABLE								
MSE RETAINING WALL								
WALL HT.	GEO GRID LENGTH "L"	MIN. EMBEDMENT	LEVELING PAD DEPTH	1ST COURSE	2ND COURSE	3RD COURSE	4TH COURSE	5TH COURSE
≤8'-0"	6'-5"	1'-6"	1'-0"	1X	1X	1X	CP	-
>8'-0"	10'-4"	3'-0"	1'-0"	1X	1X	1X	1X	CP
GRAVITY WALL								
WALL HT.	GEO GRID LENGTH	MIN. EMBEDMENT	LEVELING PAD DEPTH	1ST COURSE	2ND COURSE	3RD COURSE	4TH COURSE	5TH COURSE
≤4'-0"	-	1'-6"	4" MIN.-12" MAX.	1X	1X	CP	-	-



**3 ULTRABLOCK WALL DETAILS**  
SCALE: 1" = 2'

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Symons*  
Date: 06/07/2019

AS-BUILT NUMBER: 100139.05



**SYMONS ENGINEERING CONSULTANTS, INC.**

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portland, oregon 97236  
phone 503 760 1353  
facsimile 503 762 1962



CLIENT

**DAVE GREEN**  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

# CANEMAH RESIDENCE

SITE ADDRESS  
**413 4TH AVE**  
**OREGON CITY, OR 97045**

SHEET NAME

## SECTION & CITY DETAILS

REVISION

△	10/3/18	ISSUED FOR PERMIT
①	1/8/19	REVISED PER PW COMMENTS
②	4/5/19	ISSUED FOR DESIGN COORD.
③	4/9/19	GENERAL REVISIONS
△		
△		

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c**

PROJECT NUMBER **17-34**

SHEET **7**

OF 11 SHEETS

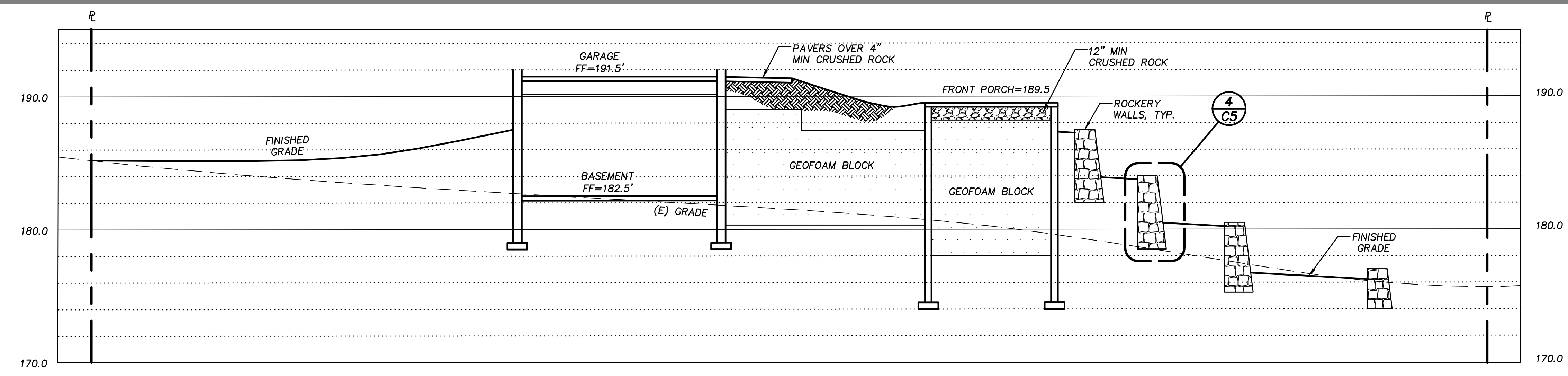
# C5

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

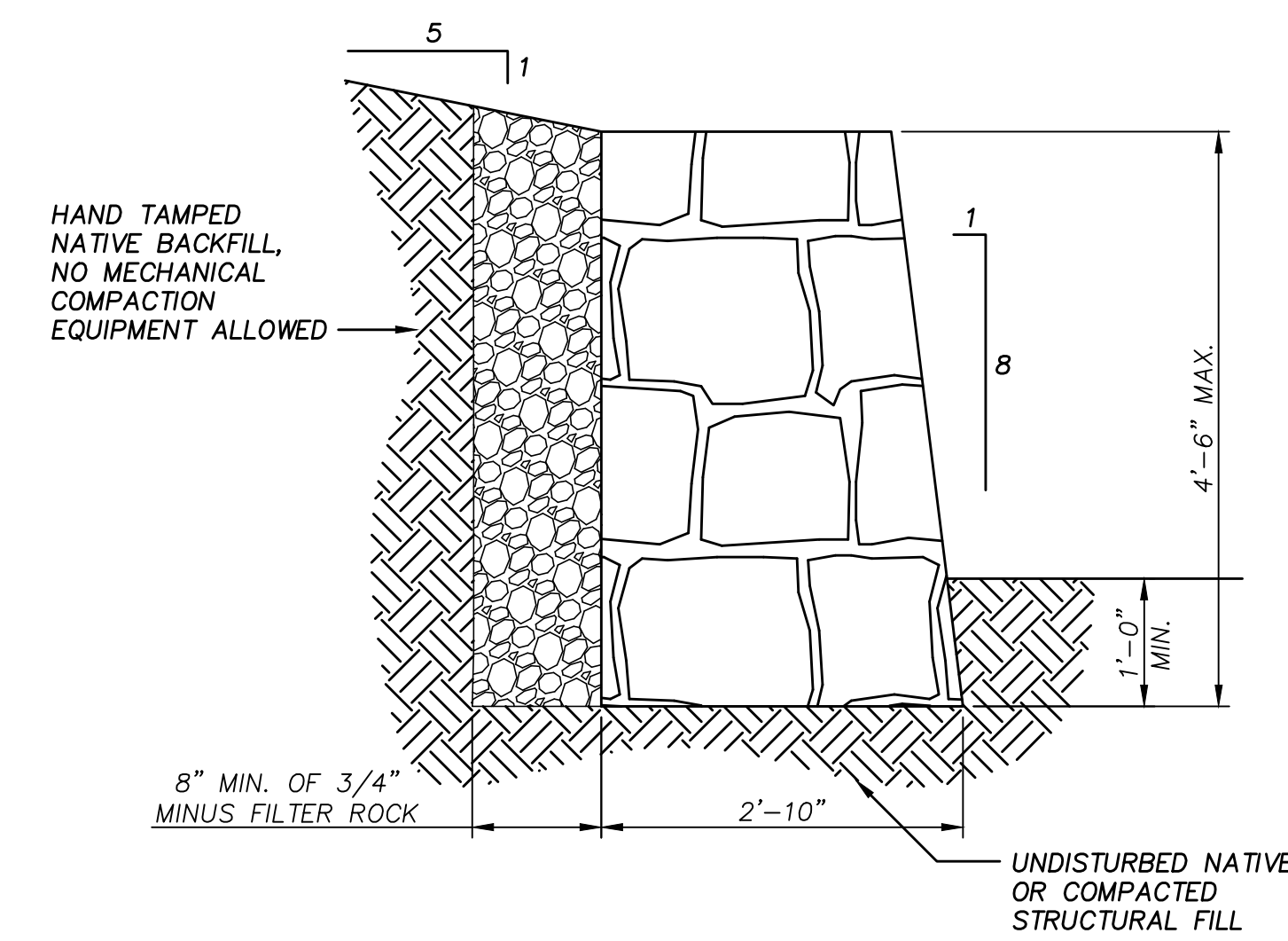
By: *Symons*  
Date: 06/07/2019

AS-BUILT NUMBER: 100139.06

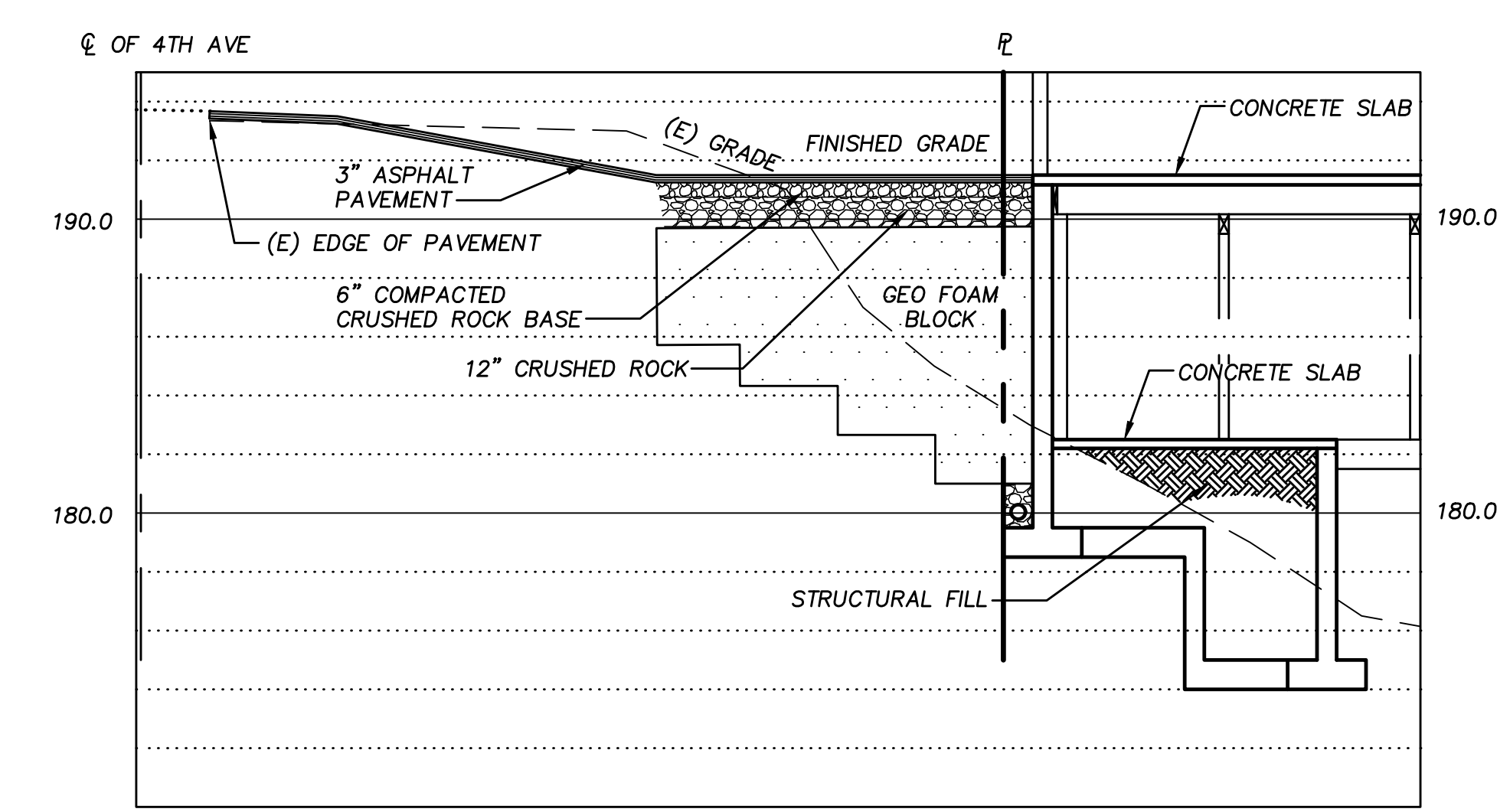


**3 SITE SECTION**  
SCALE: 1" = 5'

- NOTES:
1. WALL SHALL BE CONSTRUCTED BY CONTRACTOR HIGHLY EXPERIENCED IN BOULDER RETAINING WALL CONSTRUCTION.
  2. ANGULAR STONES SHALL BE SELECTIVELY HAND PLACED TO ENSURE FULL INTERLOCK W/ NO INTERNAL SLIPPAGE & MINIMAL VOIDS



**4 ROCKERY WALL SECTION**  
SCALE: 3/4" = 1'-0"



**5 SITE SECTION**  
SCALE: 1" = 5'

NOTES:

1. TAP SHALL BE MADE IN PRESENCE OF THE CITY INSPECTOR; NO CUTTING OR CONNECTING EXISTING SEWER PIPE WITHOUT CITY INSPECTOR APPROVAL.
2. INSERTA TEE OR APPROVED EQUAL SHALL BE USED FOR 4" OR 6" MAX TAP TO PVC PIPE. SEE NOTE 5 FOR OTHER TYPE PIPE MATERIAL.
3. HOLE IN MAIN SHALL BE CORED.
4. CENTERLINE OF SERVICE TAP OUTLET SHALL BE ABOVE SPRINGLINE.
5. FOR CONCRETE, CLAY OR NON-PVC EXISTING SEWER MAIN PIPE MAY REQUIRE CUT-IN MANUFACTURED TEE WITH APPROVED COUPLERS, PER CITY DIRECTION.
6. 4" DIAMETER SERVICE LATERAL SHALL BE USED FOR SINGLE FAMILY RESIDENTIAL LOTS.

DRAWN	K.A.E.	City of Oregon City	SCALE	N.T.S.
ENGR.	A.F.G.	Public Works Standard Drawings	DATE	APRIL 2017
REV.	DATE	APPR.	APPR.	A.F.G.
			DRAWING NO.	311

NOTES:

1. ALL CUTS IN PAVEMENT SHALL BE SAW CUT.
2. ALL PAVEMENT PATCH JOINTS AND ALL CUT EDGES SHALL BE SAND SEALED PER ODOT SPECS AND OREGON CITY SPECIAL PROVISIONS SEC-00744.51.
3. REFER TO OREGON CITY PAVEMENT CUT STANDARDS AND STANDARD DETAIL DRAWINGS 532, 533 & 534.
4. THIS TRENCH BACKFILL REQUIREMENT APPLIES TO ALL UNDERGROUND CONDUITS.
5. CLASS "B" BACKFILL SHALL EXTEND 3 FEET BEYOND EDGE OF STREET OR SURFACED AREA.
6. BACKFILL SHALL BE PLACED AND COMPACTED IN A MAX. OF 24-INCH LIFTS. COMPACTION TESTING REQUIRED AT A FREQUENCY OF 1 TEST EVERY 100 FEET OF TRENCH MINIMUM.
7. EXISTING ARTERIAL & COLLECTOR STREET DESIGNATIONS REQUIRE CLSM (aka CDF) PER ODOT STANDARDS, SEC-00442 FOR ALL TRENCH TRANSVERSE OR PERPENDICULAR CROSSINGS OF VEHICLE TRAVEL LANES.

DRAWN	K.A.E.	City of Oregon City	SCALE	N.T.S.
ENGR.	A.F.G.	Public Works Standard Drawings	DATE	APRIL 2017
REV.	DATE	APPR.	APPR.	AFG
			DRAWING NO.	313

LEGEND:

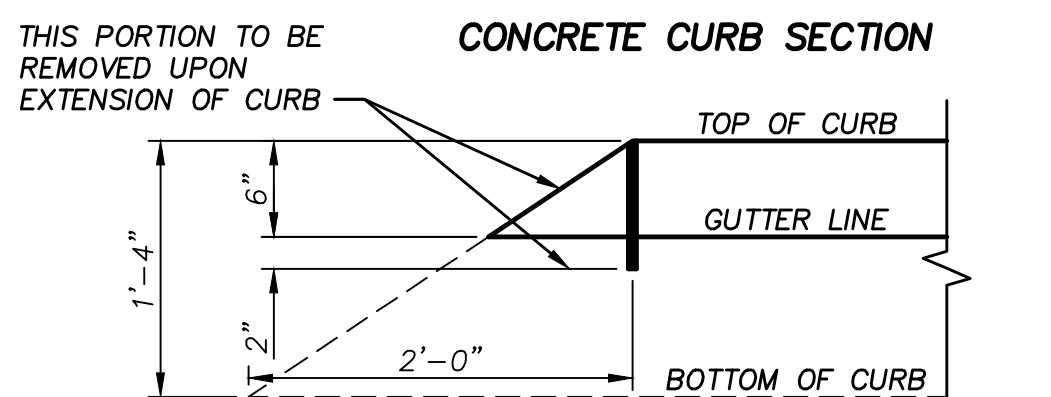
- MORATORIUM STANDARD: PAVEMENT PATCH IS REQUIRED TO THESE LIMITS.
- FULL STANDARD: PAVEMENT PATCH IS REQUIRED TO THE NEAREST LANE LINE.
- MODIFIED STANDARD: PAVEMENT PATCH IS REQUIRED TO THE NEAREST CENTER OF LANE OR LANE LINE.
- T-CUT STANDARD: PAVEMENT PATCH IS REQUIRED 1' BEYOND TRENCH LIMITS.
- TRENCH LIMITS AT TOP OF PAVEMENT.

NOTES:

1. ALL CUTS TO BE PERPENDICULAR/PARALLEL TO DIRECTION OF TRAVEL.
2. ALL PAVEMENT PATCH JOINTS AND ALL CUT EDGES SHALL BE SAND SEALED PER ODOT SPECS AND OREGON CITY SPECIAL PROVISIONS SEC-00744.51.
3. PAVEMENT REPLACEMENT IS REQUIRED TO THE NEXT ADJACENT CURB, PARKING, OR LANE LINE WHENEVER A TRENCH OR DISTURBANCE OF ASPHALT OR SUPPORT MATERIAL EXTENDS BEYOND SUCH LINE.
4. FOR STREETS WITH EXISTING AC THICKNESS OF LESS THAN 4 INCHES, COMPLETE FULL DEPTH AC REMOVAL TO PAVING LIMITS AND REPLACE WITH MINIMUM 4 INCHES OF AC.
5. RESURFACING TO BE A MINIMUM 4 INCHES, LEVEL 2, 1/2-INCH PG 64-22 ACP (IF ARTERIAL, LEVEL 3) OR MATCHING EXISTING, WHICHEVER IS GREATER.

DRAWN	D.K.H.	City of Oregon City	SCALE	N.T.S.
ENGR.	G.E.C.	Public Works Standard Drawings	DATE	AUGUST 2012
REV.	DATE	APPR.	APPR.	JML
1	11/15	AFG	DWG. NO.	532

NOTE:  
 1. THE TOP EDGE TO BE ROUNDED OFF WITH A 3/4" RADIUS ON THE STREET SIDE AND 3/8" RADIUS ON THE PROPERTY SIDE.  
 2. CONCRETE SHALL BE 3000 P.S.I., (6.1 SACK) 2" TO 4" SLUMP.



**CONCRETE CURB SECTION**



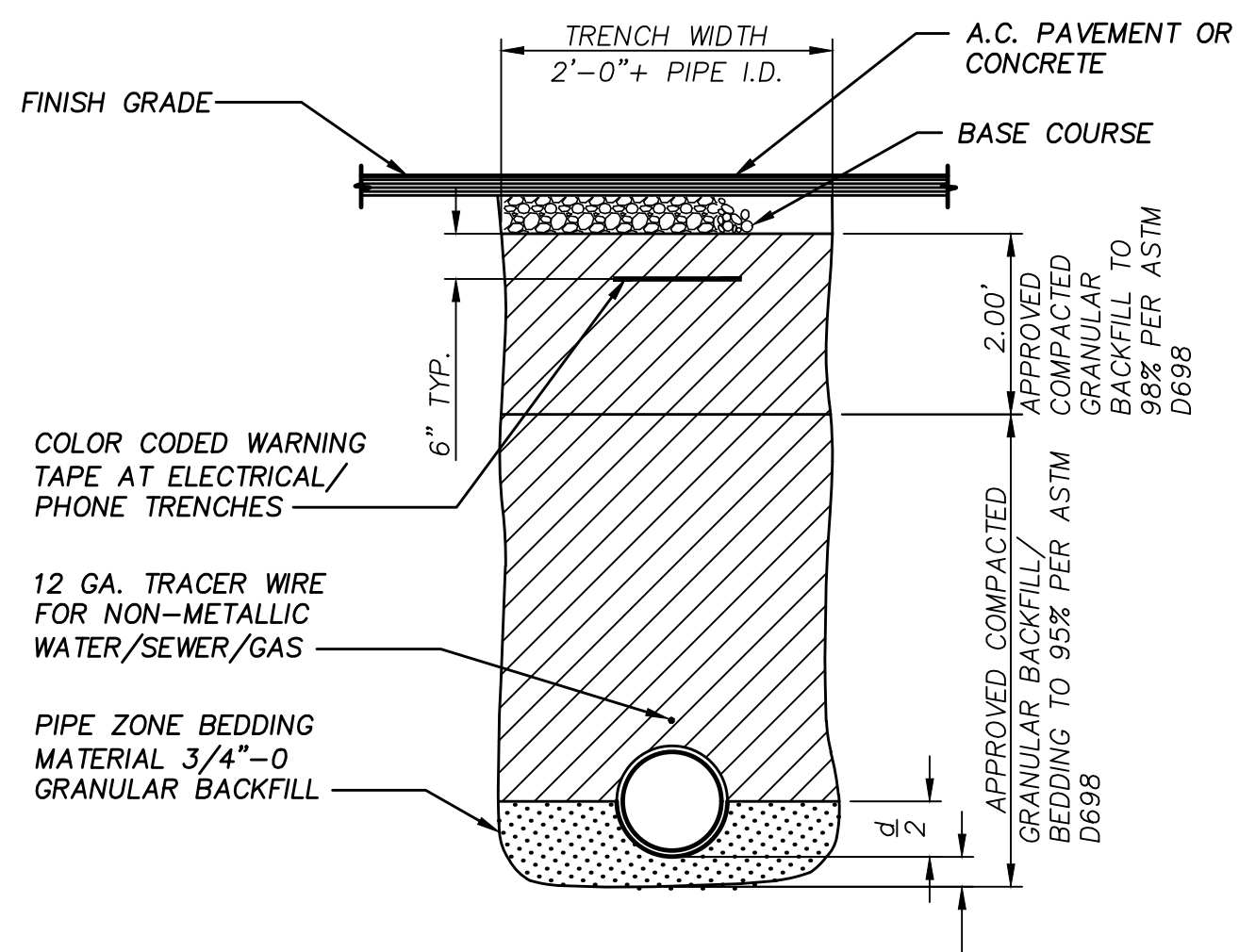
**CONCRETE CURB ENDING**

ENDING TO BE PAID FOR AS 1 FT. OF STANDARD CURB.

NOTE: THIS CURB IS NOT ALLOWED FOR STREET GRADES OF LESS THAN 1%.

**CAST-IN-PLACE CURB**

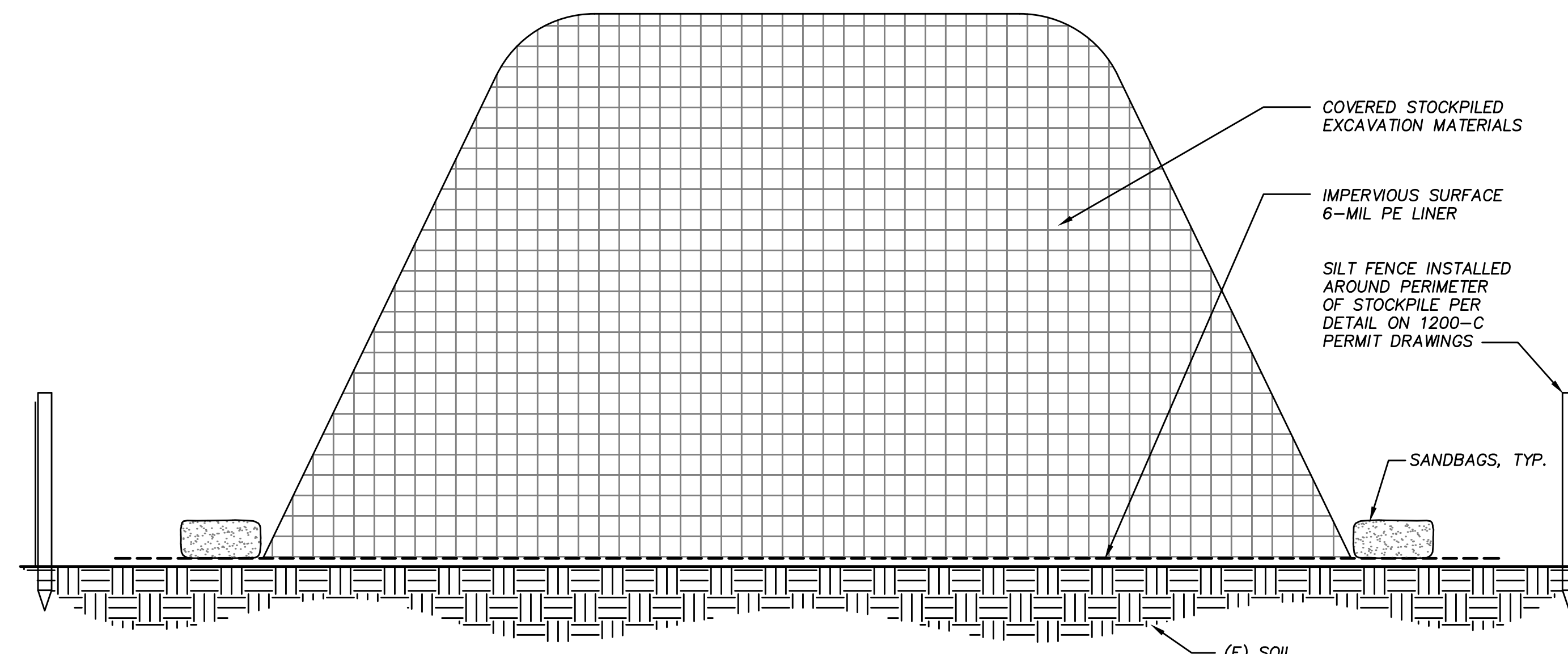
SCALE: 1" = 1'



NOTE: THIS DETAIL FOR PRIVATE ONSITE TRENCHES ONLY

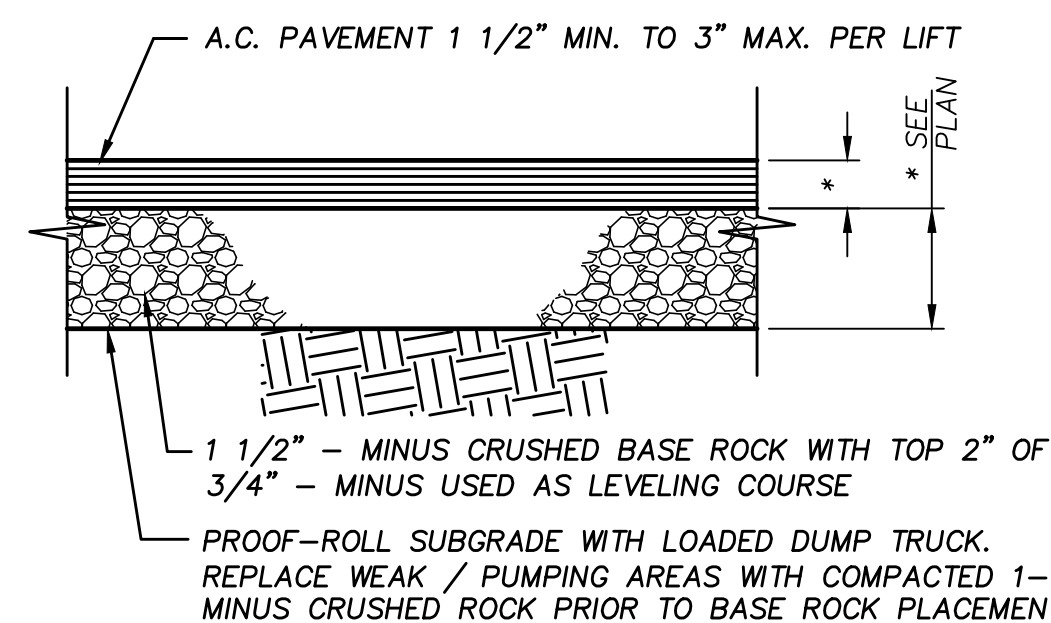
**TYPICAL TRENCH SECTION - PAVEMENT**

SCALE: 1" = 2'



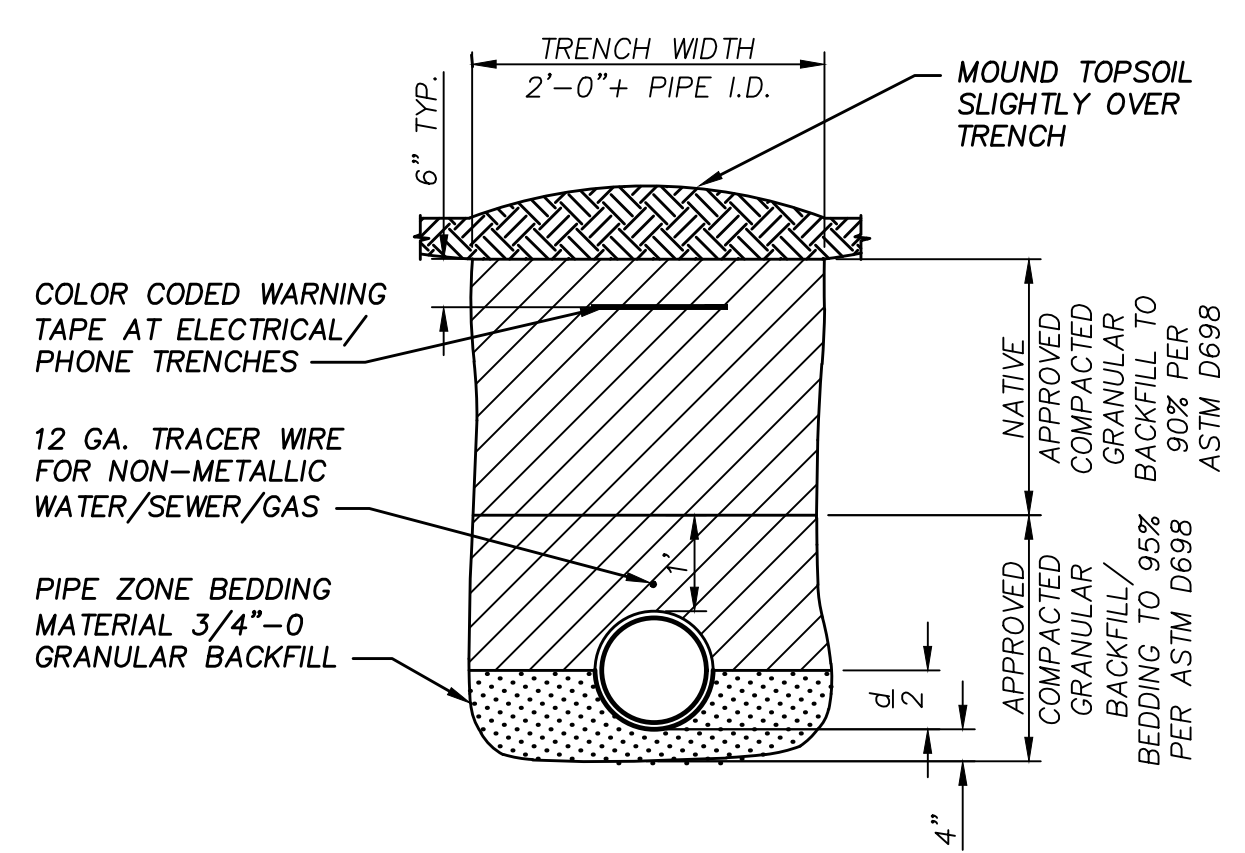
**STOCKPILING DETAIL**

SCALE: 1" = 2'



**TYPICAL A.C. PAVEMENT DETAIL**

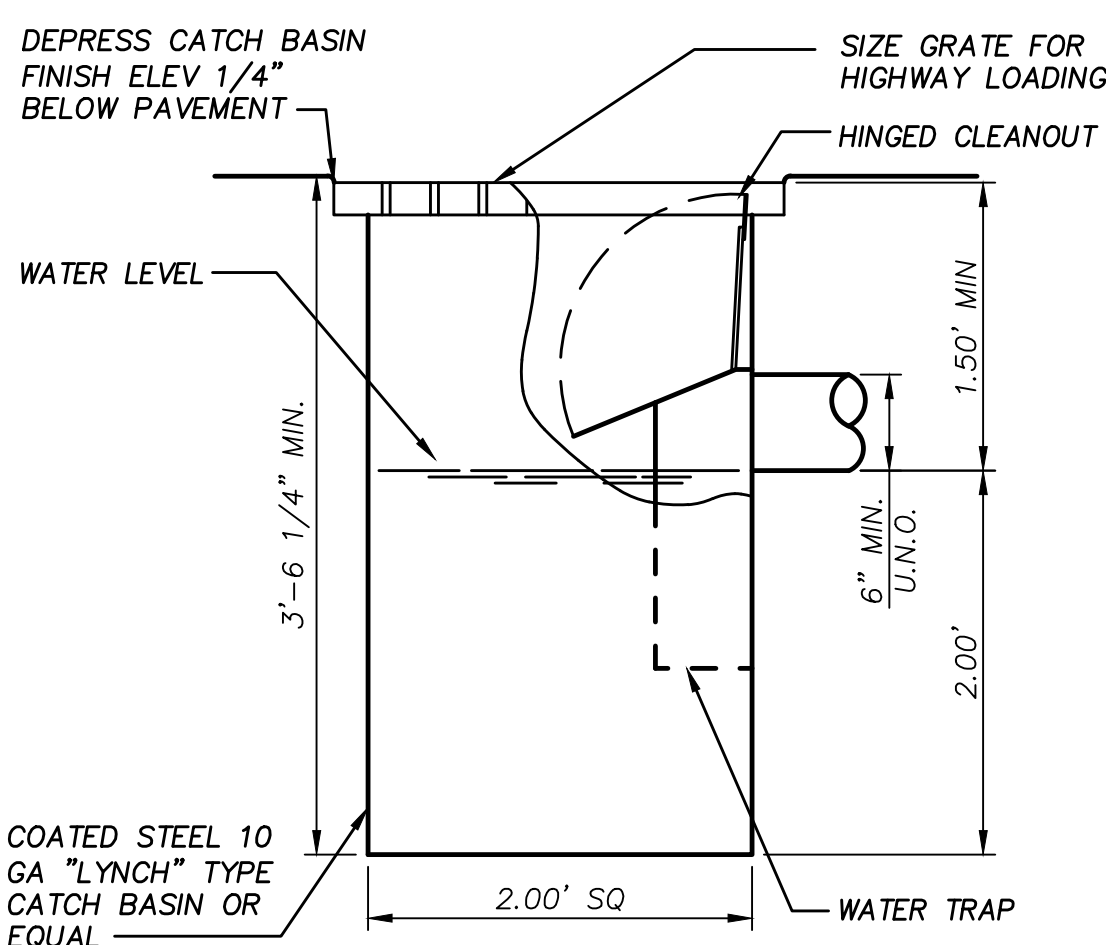
SCALE: 1" = 1'



NOTE: THIS DETAIL FOR PRIVATE ONSITE TRENCHES ONLY

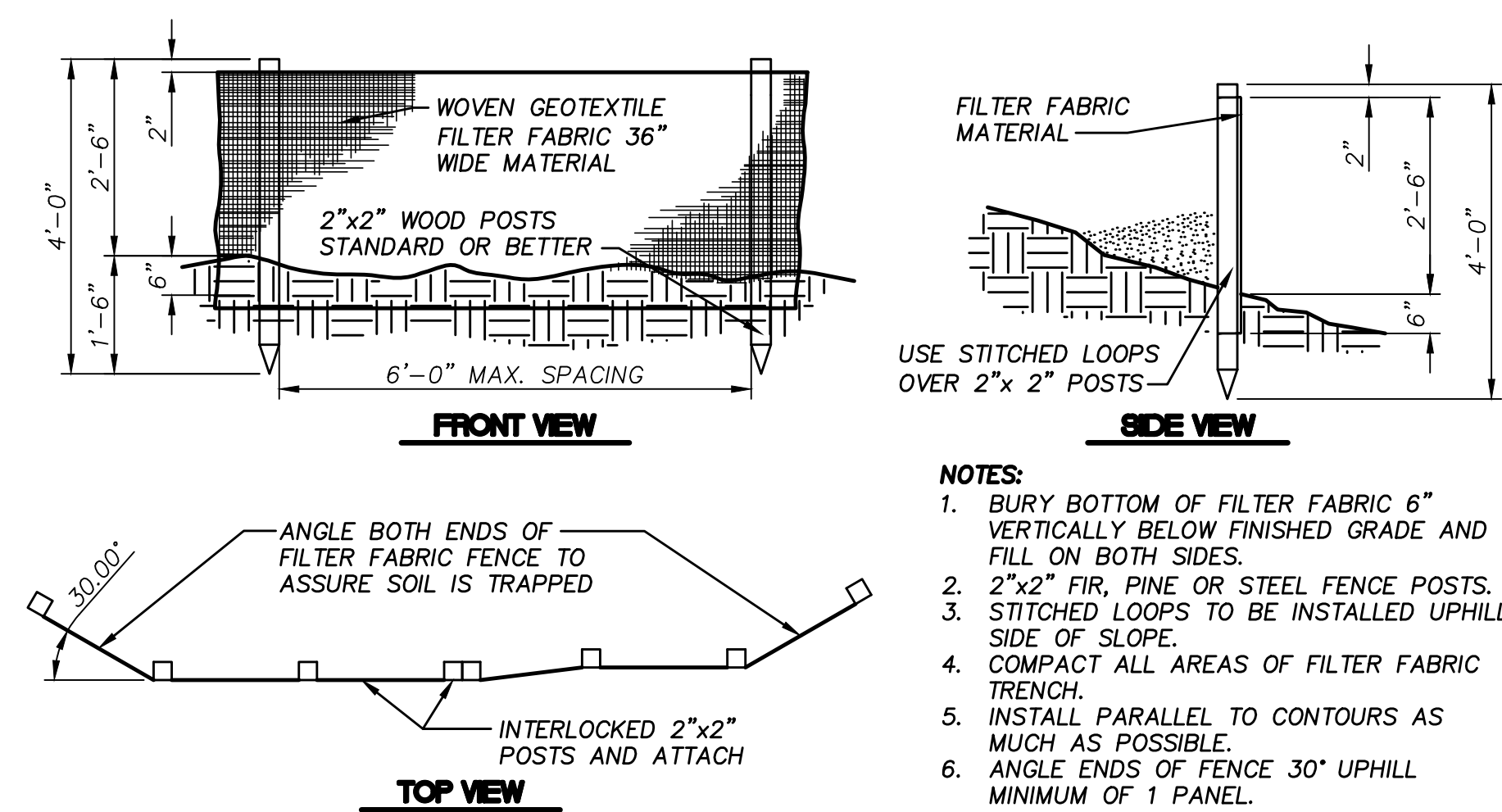
**TYPICAL TRENCH SECTION - LANDSCAPE**

SCALE: 1" = 2'



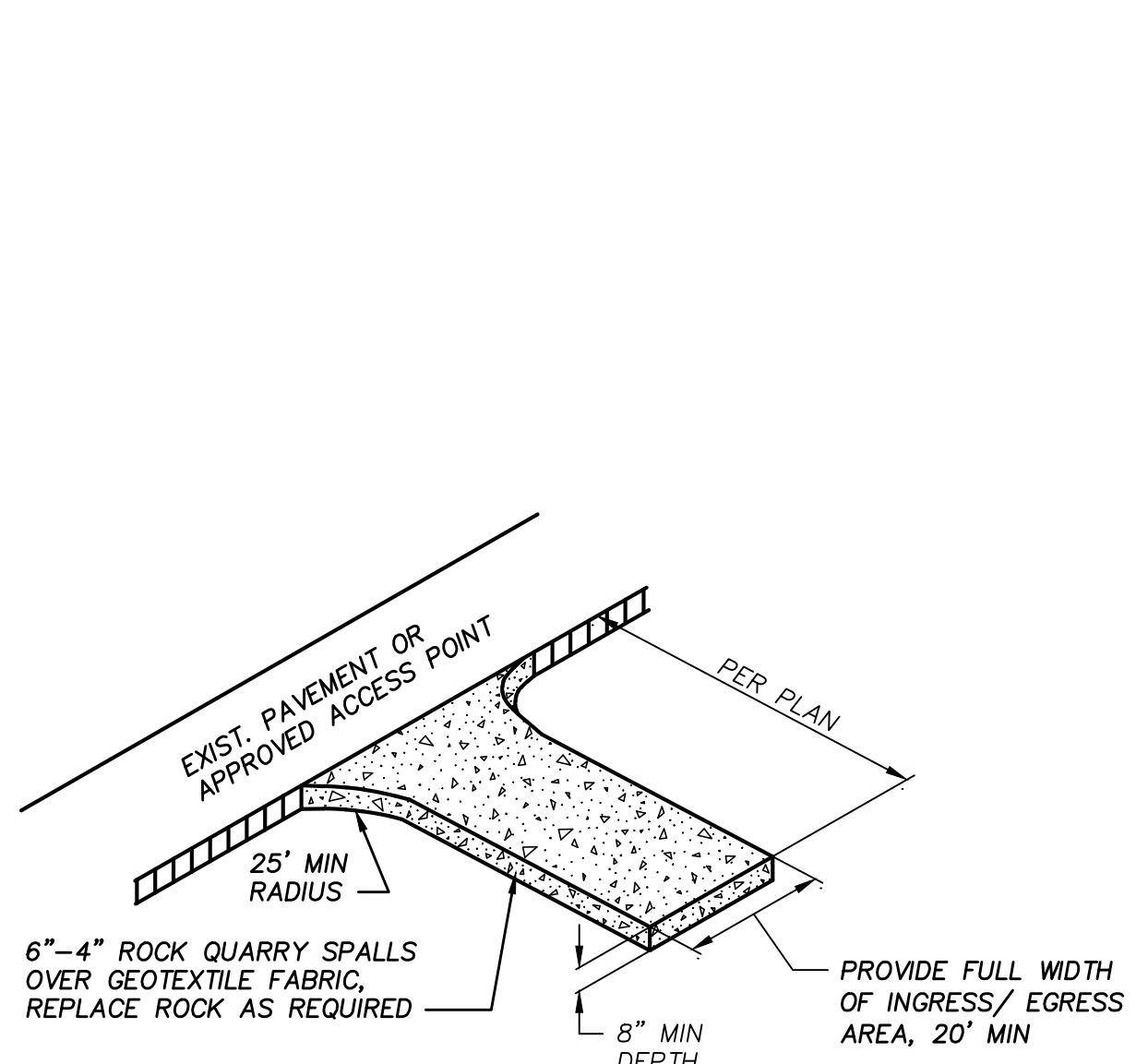
**TYP. CATCH BASIN DETAIL**

SCALE: 1" = 1'



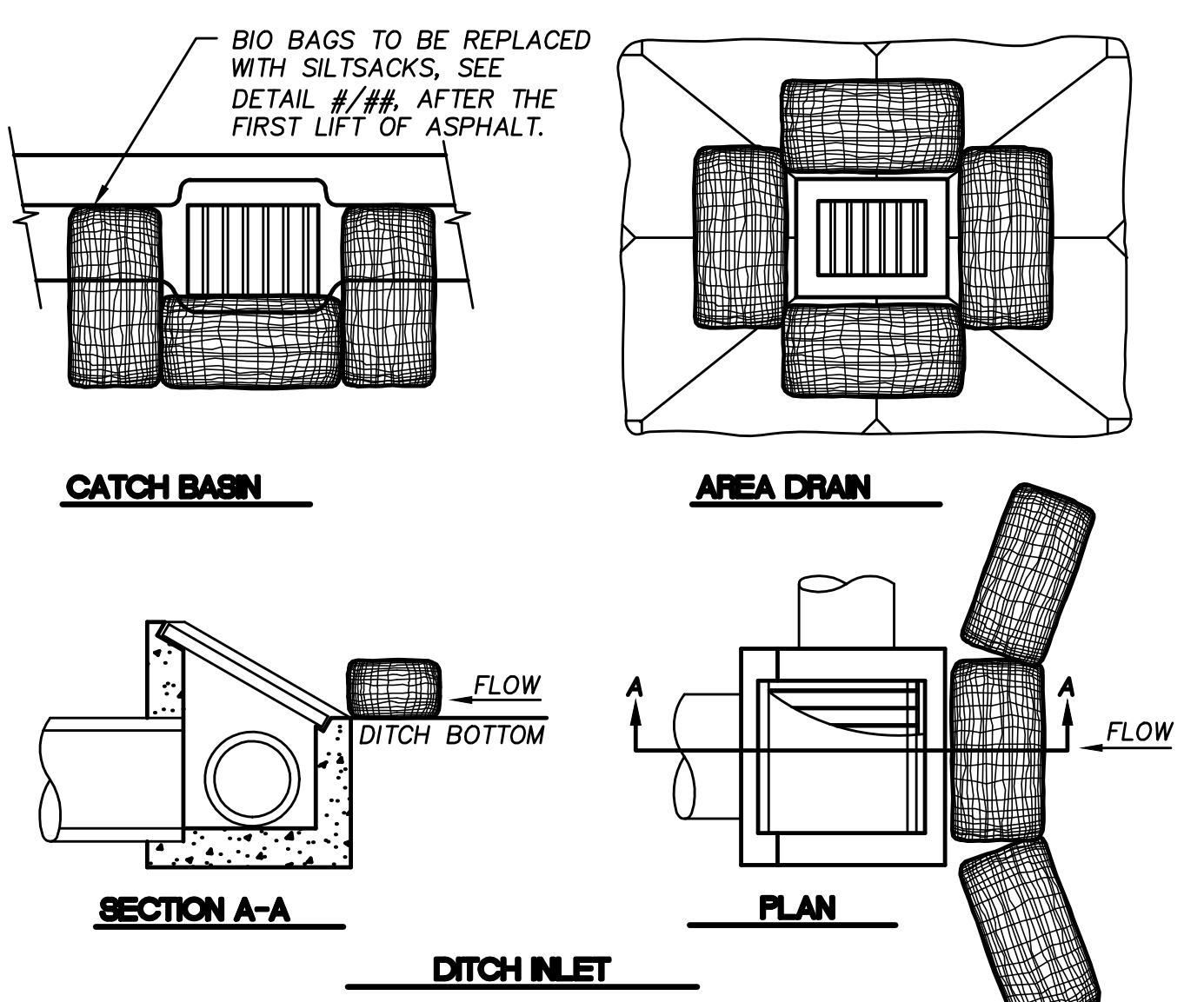
**SEDIMENT FENCE DETAIL**

SCALE: 1" = 2'



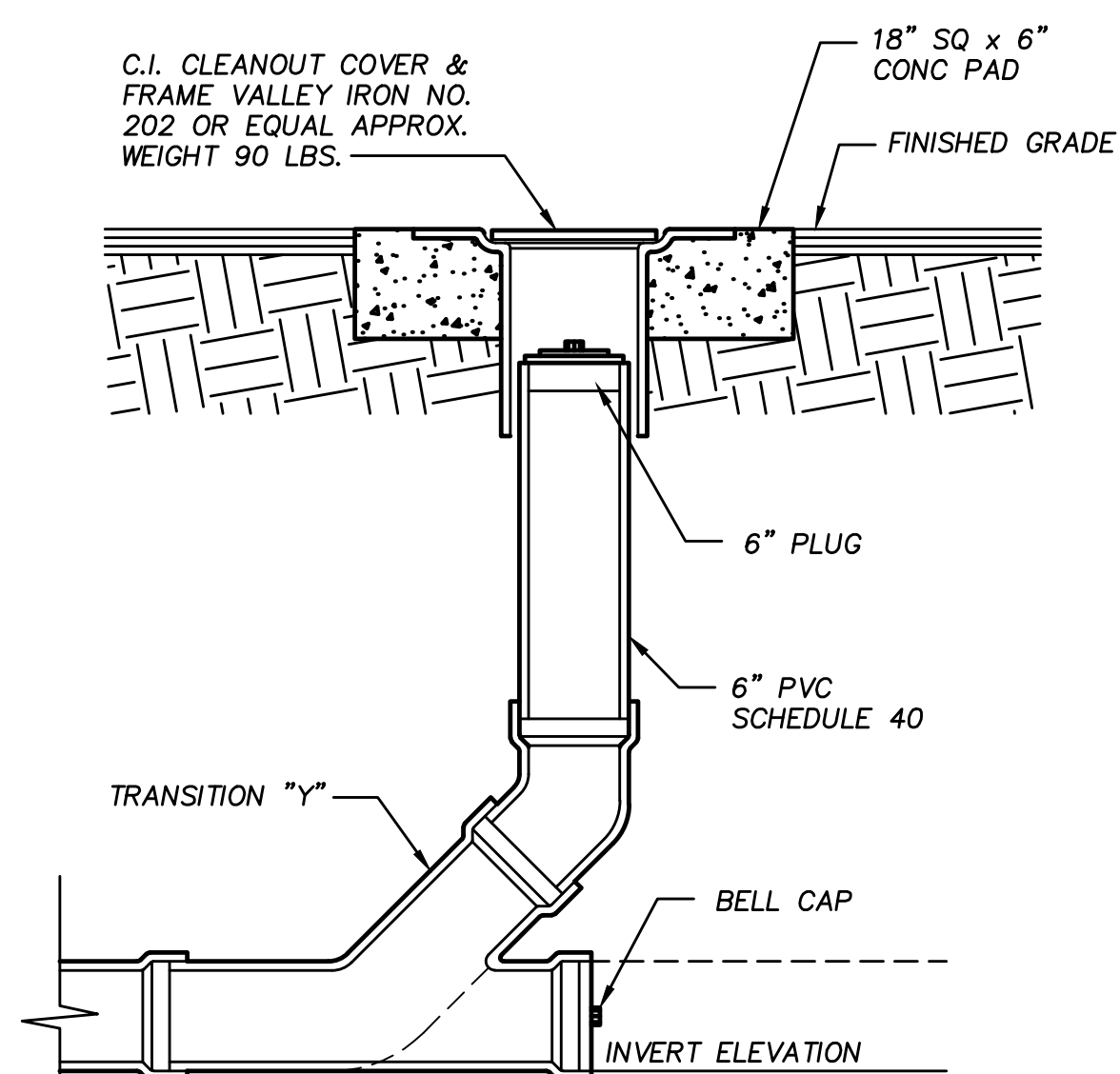
**CONSTRUCTION ENTRANCE**

N.T.S.



**TEMPORARY BIOFILTER BAGS**

SCALE: 1" = 2'



**TYP. CLEANOUT DETAIL FOR PRIVATE ONSITE STORM DRAINS ONLY**

SCALE: 1" = 1'

City of Oregon City  
 Public Works Department  
 APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Smyth*  
 Date: 06/07/2019

AS-BUILT NUMBER: 100139.07



**SYMONS ENGINEERING CONSULTANTS, INC.**

12805 s.e. foster road  
 portland, oregon 97236  
 phone 503 760 1353  
 facsimile 503 762 1962



CLIENT

**DAVE GREEN**  
 7537 SE 16TH AVE  
 PORTLAND, OR 97266  
 503-805-1774

PROJECT

**CANEMAH RESIDENCE**

SITE ADDRESS

**413 4TH AVE  
 OREGON CITY, OR 97045**

SHEET NAME

**CIVIL DETAILS**

REVISION

- △ 10/3/18 ISSUED FOR PERMIT
- △ 1/8/19 REVISED PER PW COMMENTS
- △ 4/9/19 REISSUED WITH NO CHANGES
- △
- △
- △

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c.DWG**

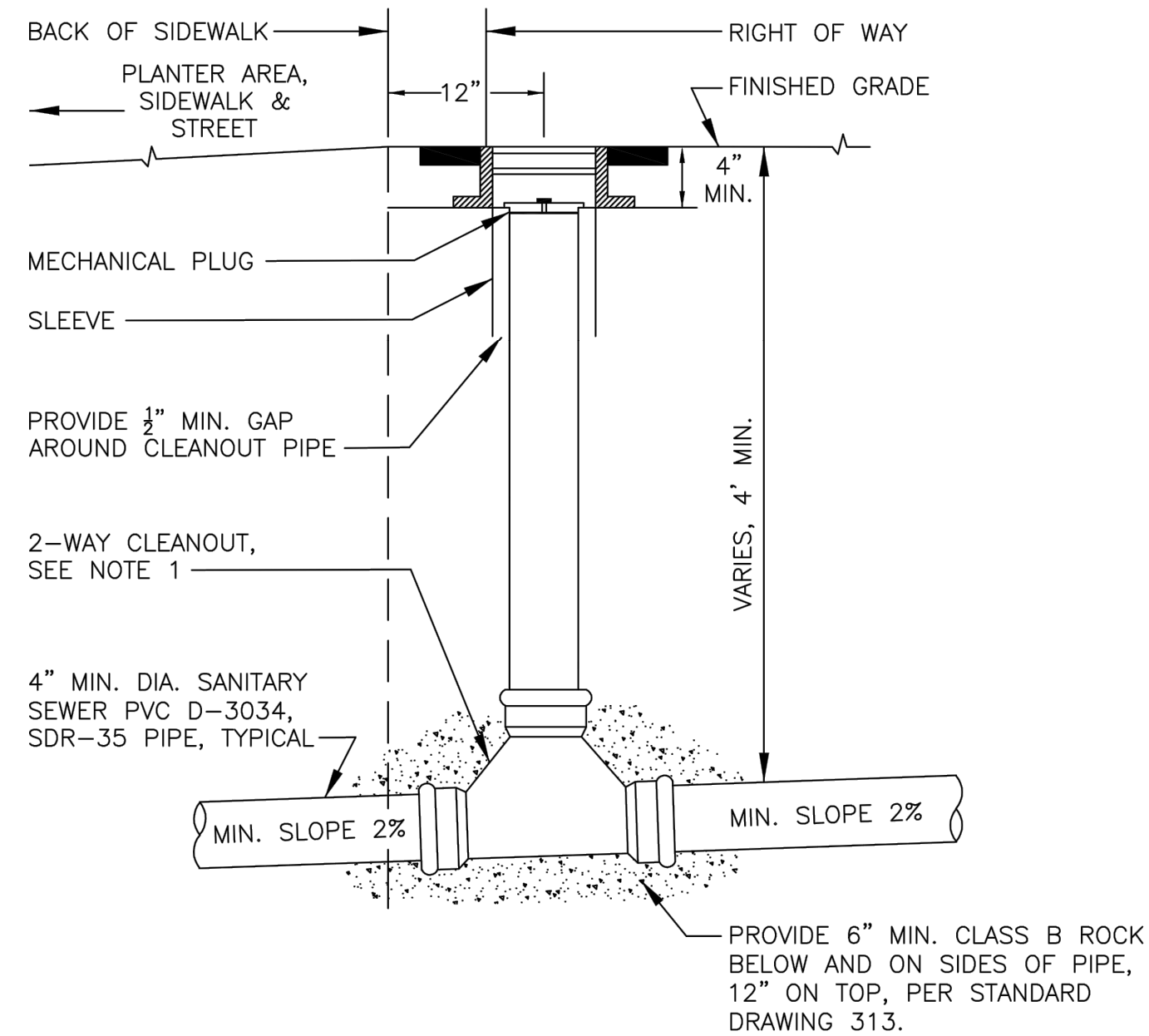
PROJECT NUMBER **17-34**

SHEET **8**

OF 11 SHEETS

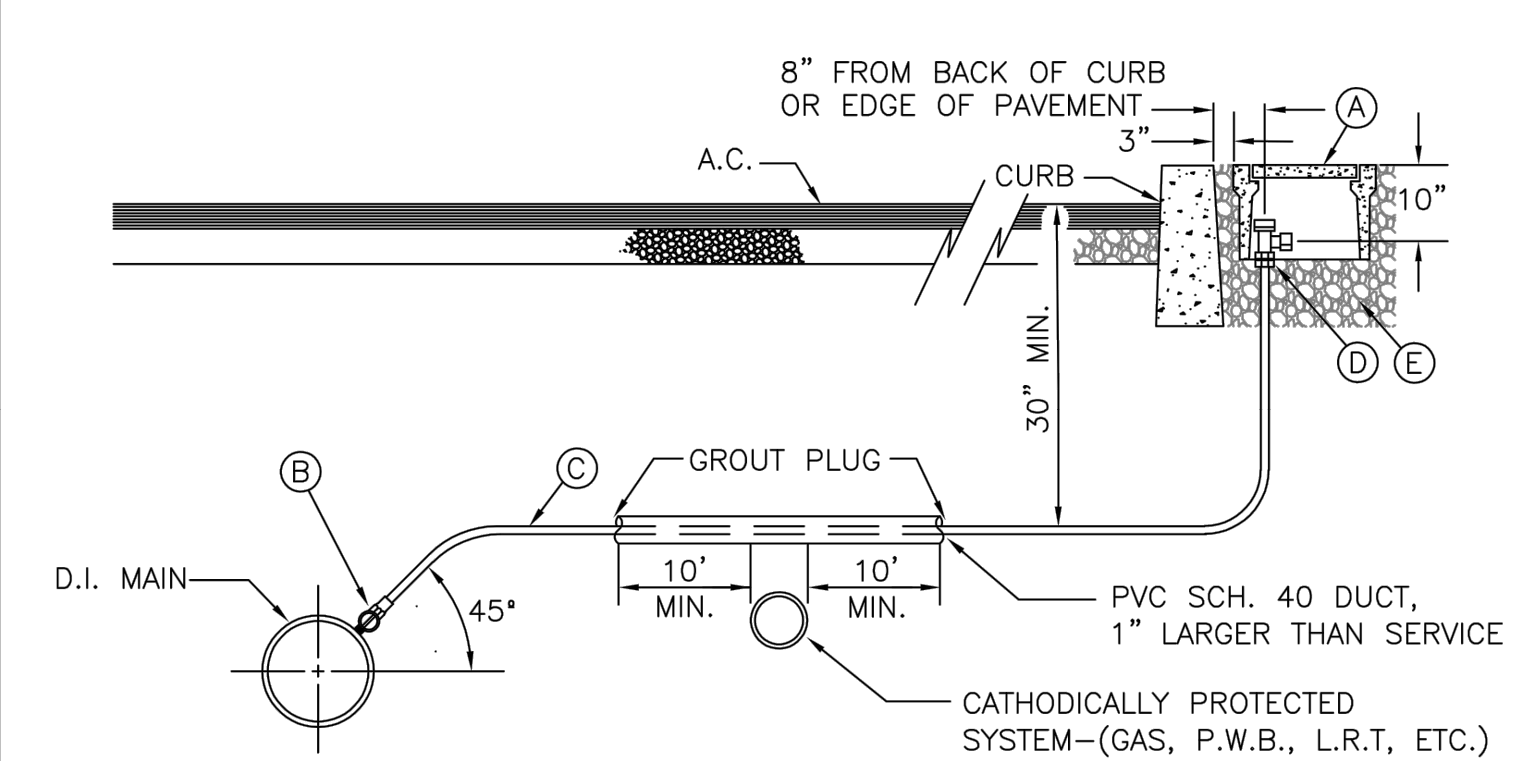
**C6**





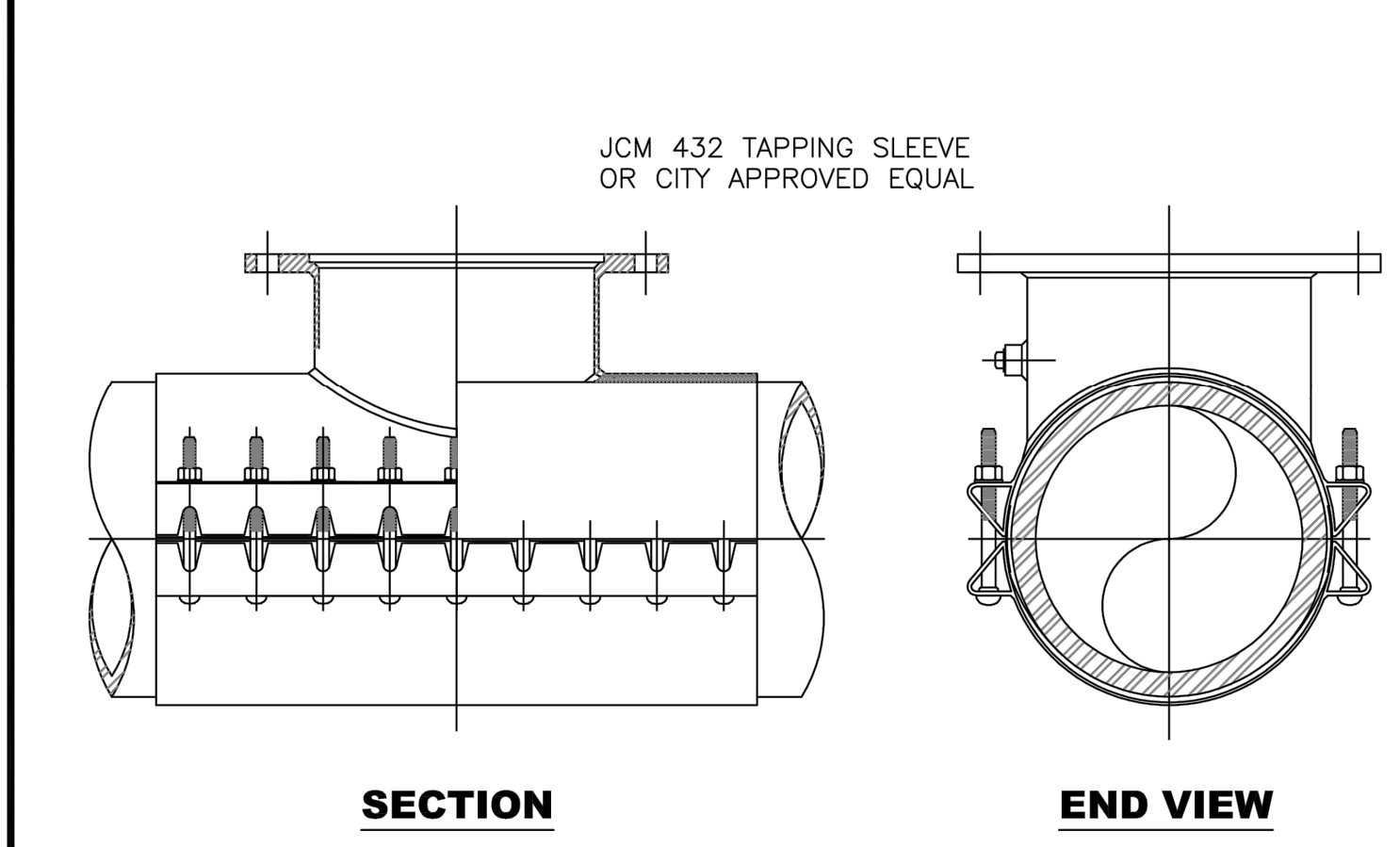
- NOTES:**
- SERVICE CLEANOUT TO BE SAME DIAMETER AND MATERIAL AS SERVICE LATERAL.
  - USE OLYMPIC FOUNDRY 8"x4" CLEANOUT RING & COVER PART #M1007 OR APPROVED EQUAL
  - 12" FROM BACK OF SIDEWALK TO CENTER OF CLEANOUT.
  - VIDEO INSPECT ALL LATERALS FROM MAINLINE TO CLEANOUT/ROW LINE, OR FROM CLEANOUT/ROW LINE TO MAINLINE, PER APPLICABLE APWA/ODOT STANDARDS.

DRAWN	K.A.E.	City of Oregon City Public Works Standard Drawings		SCALE	N.T.S.
ENGR.	A.F.G.			DATE	APRIL 2017
REV.	DATE	APPR.		APPR.	A.F.G.
1	2/2018	AFG			
2	12/2018	AFG			
			DRAWING NO.	310-A	



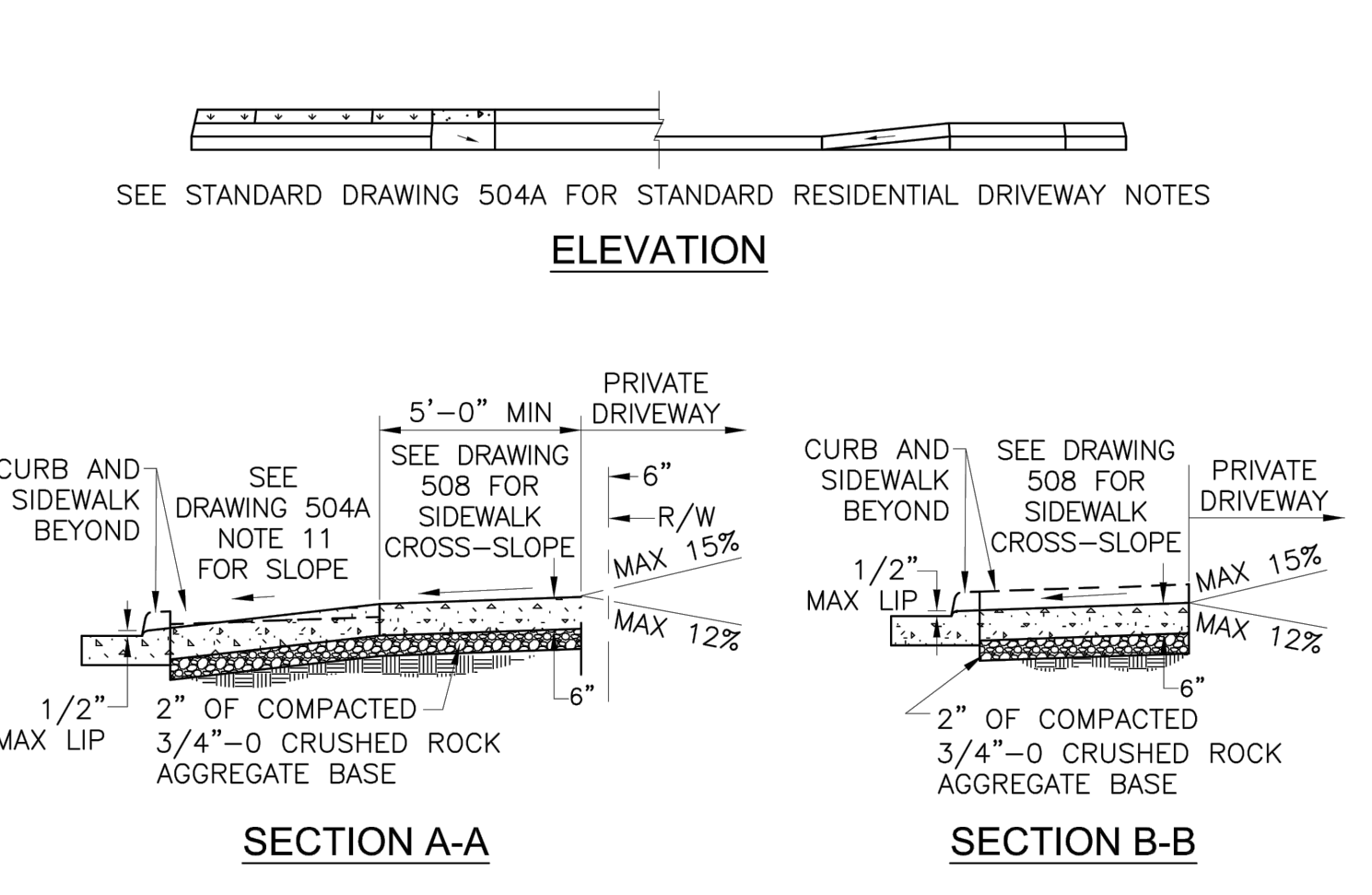
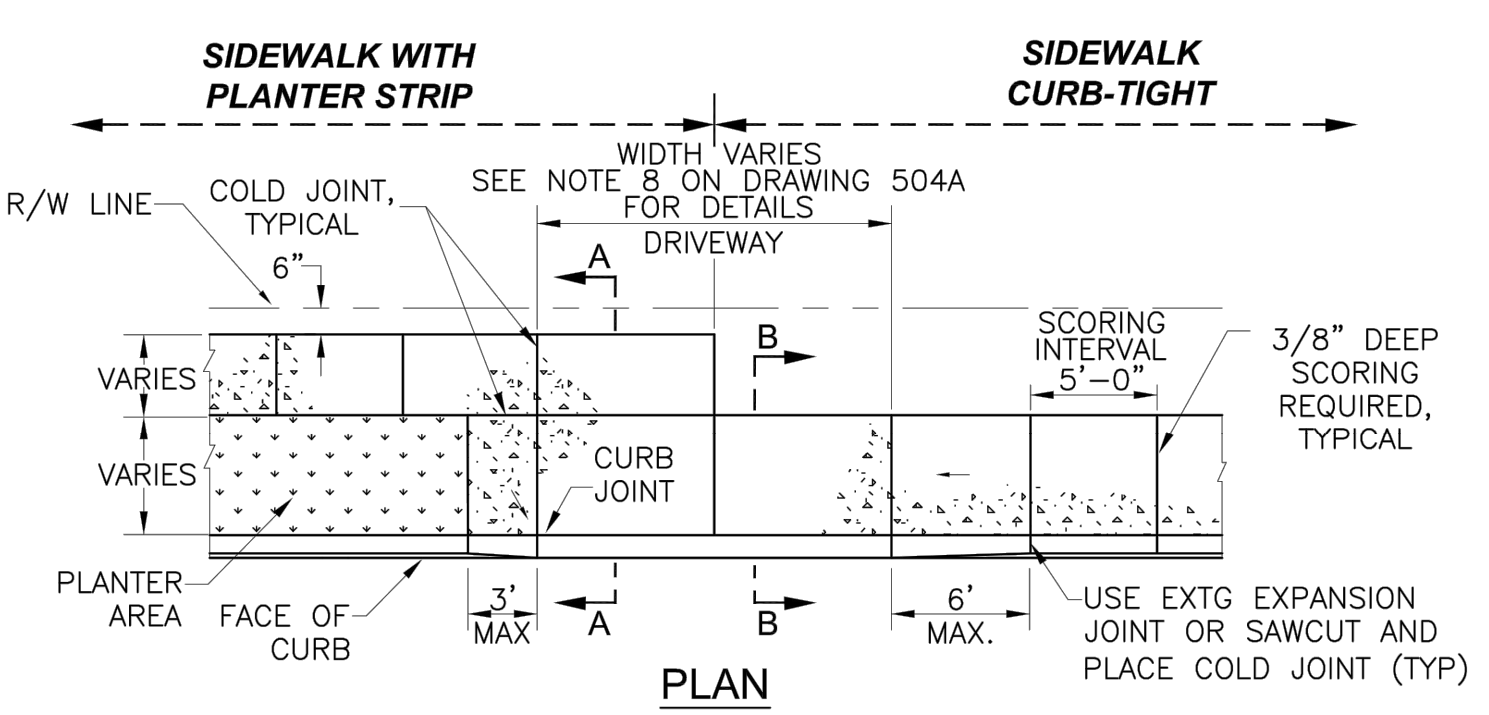
- MATERIALS:**
- HUBBELL QUAZITE B03111812M. PROVIDE HUBBELL QUAZITE PG1118WAKM50 DROP IN LID.
  - BALL CORPORATION STOP MUELLER B-25008N OR FORD FB1000-4-Q-NL. SET CORPORATION STOP WITH OPERATING NUT AT 3 OR 9 O'CLOCK. ALL CORPORATION STOPS SHOULD HAVE CC THREAD.
  - 1" SOFT TEMPER, TYPE 'K' COPPER TUBING COMPLYING WITH ASTM B-88.
  - BALL ANGLE METER STOP MUELLER B-24258N OR FORD BA43444WQNL.
- NOTES:**
- ALL PIPE, STRUCTURE ZONES AND APPURTENANCES SHALL BE BACKFILLED USING 3/4"-0" GRANULAR MATERIAL AND COMPACTED TO 95% MAX. DENS. AS DETERMINED BY AASHTO T-180.
  - WHEN AN ACTIVE CATHODIC PROTECTED SYSTEM IS ENCOUNTERED; SCH. 40 PVC SHALL BE INSTALLED AS SHOWN ABOVE WITH GROUT PLUG, OR DIRECT GROUNDING OF SERVICE LINE.
  - METER BOX SHALL BE CENTERED OVER THE COMPLETED METER ASSEMBLY.
  - NO METER SHALL BE INSTALLED ON PRIVATE PROPERTY WITHOUT EASEMENT.
  - PRESSURES GREATER THAN 70 PSI REQUIRE PRESSURE REDUCING VALVE INSTALLED IN A SEPARATE BOX AFTER THE METER ON PRIVATE PROPERTY ADJACENT TO RIGHT OF WAY.

DRAWN	K.A.E.	City of Oregon City Public Works Standard Drawings		SCALE	N.T.S.
ENGR.	A.F.G.			DATE	APRIL 2018
REV.	DATE	APPR.		APPR.	
1	8/18	AFG			
			DRAWING NO.	402	



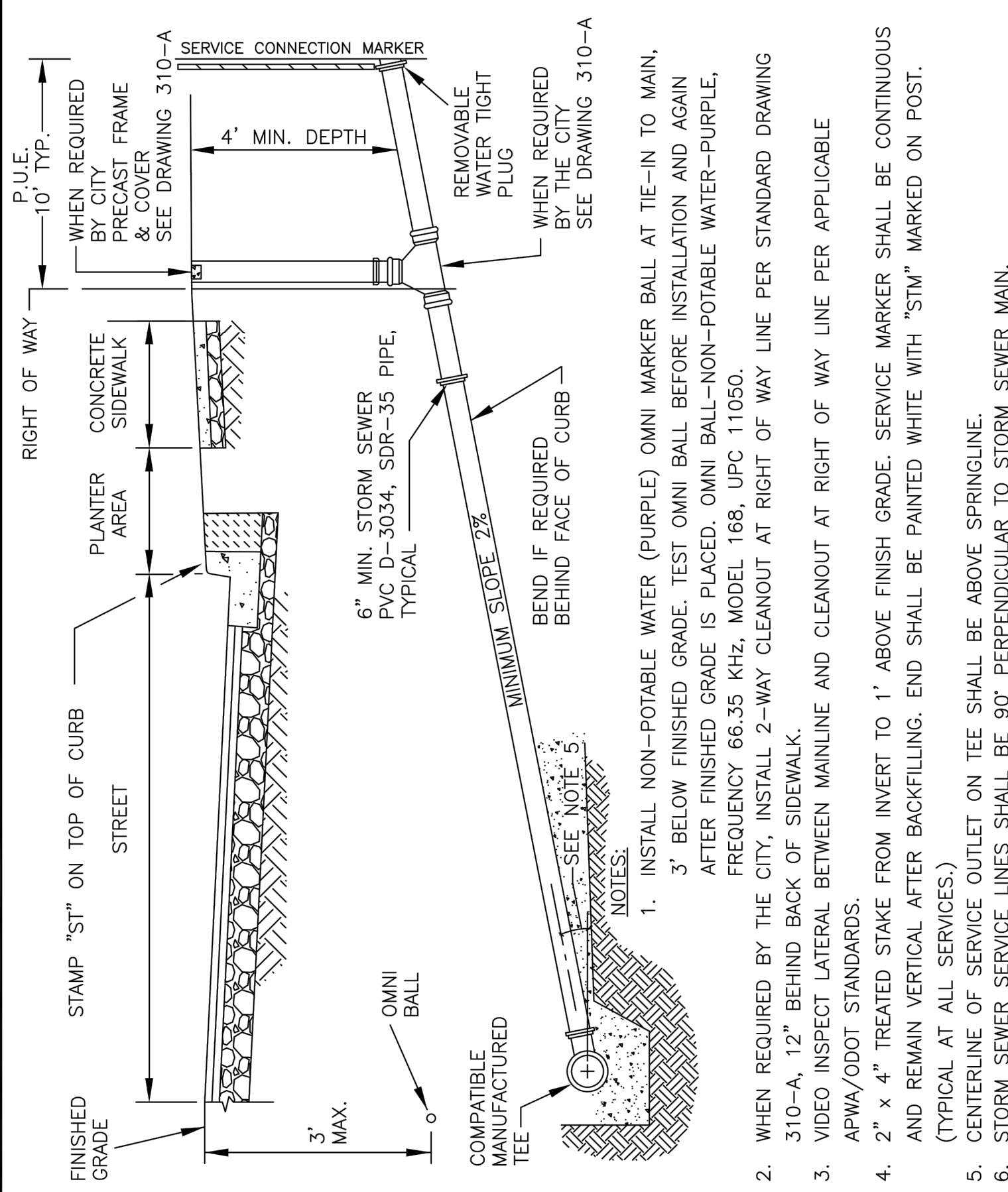
- NOTES:**
- WATER MAIN SHALL BE CLEANED BEFORE ATTACHING SLEEVE.
  - SLEEVE AND VALVE SHALL BE PRESSURE TESTED BEFORE MAKING TAP.
  - PRESSURE TEST AND TAP SHALL BE MADE IN THE PRESENCE OF OREGON CITY WATER DIVISION PERSONNEL.
  - PROPER TAPPING MACHINE SHALL BE USED TO MAKE TAP.
  - 3/4"-0" GRANULAR MATERIAL SHALL BE PLACED AND COMPACTED TO 95% OF MAX. DENSITY AS DETERMINED BY AASHTO T-180.
  - THRUST BLOCKING REQUIREMENTS SHALL BE PER DRAWING 407.
  - TAP SHALL BE MADE NO CLOSER THAN 18 INCHES FROM THE NEAREST MAINLINE JOINT OR SERVICE CONNECTION.

DRAWN	K.A.E.	City of Oregon City Public Works Standard Drawings		SCALE	N.T.S.
ENGR.	A.F.G.			DATE	JUNE 2018
REV.	DATE	APPR.		APPR.	
			DRAWING NO.	411	



- NOTES FOR STANDARD DETAIL DRAWING 504 (STANDARD RESIDENTIAL DRIVEWAY):**
- SECTION A-A MAY BE USED FOR CURB-TIGHT SIDEWALK DRIVEWAY APRONS IF SIDEWALK WIDTH IS 10' OR MORE.
  - CONCRETE SHALL BE AIR-ENTRAINED 4.5% MINIMUM AND HAVE A MINIMUM BREAKING STRENGTH OF 4,000 PSI AFTER 28 DAYS.
  - FINISH WITH BROOM AND EDGE ALL JOINTS. BROOM PATTERN TO BE DIRECTION AS SHOWN ON DRAWING 504.
  - IF CURBING IS BEING REMOVED TO INSTALL A DRIVEWAY AND THE GUTTER SHOULD BECOME SEPARATED FROM THE DRIVING SURFACE IN EXCESS OF 1/16 INCH, THEN THE GUTTER SHALL ALSO BE REMOVED AND REPLACED.
  - CURB JOINT SHALL BE A TROWELED JOINT WITH A MINIMUM 1/2 INCH RADIUS ALONG BACK OF CURB.
  - WEEPHOLES SHALL NOT BE PLACED IN WING.
  - SLOPE OF THE DRIVEWAY MAY BE AWAY FROM THE CURB WHEN PREAPPROVED BY CITY ENGINEER.
  - DRIVEWAY THROAT WIDTH FOR ONE CAR GARAGE SHALL BE A MINIMUM OF 10'-0" AND A MAXIMUM OF 12'-0". DRIVEWAY THROAT WIDTH FOR TWO CAR GARAGE SHALL BE A MINIMUM OF 12'-0" AND A MAXIMUM OF 24'-0". FOR THREE CAR GARAGE SHALL BE A MINIMUM OF 18'-0" AND A MAXIMUM WIDTH OF 30'-0".
  - DRIVEWAY THROAT SCORING PATTERN SHALL MATCH SIDEWALK SCORING PATTERN.
  - EXPANSION JOINT MATERIAL SHALL BE "REFLEX RUBBER JOINT EXPANSION" MANUFACTURED BY THE JD RUSSELL COMPANY, OR CITY APPROVED EQUAL, WITH A THICKNESS OF 1/2-INCH.
  - MAX 7.5% DESIGN SLOPE DRIVEWAY RAMP (MAX 8.33% FINISH SLOPE).
  - SEE DRAWING 508 FOR SIDEWALK SLOPE.

DRAWN	J.R.F.	City of Oregon City Public Works Standard Drawings		SCALE	N.T.S.
ENGR.	N.J.K.			DATE	AUGUST 2007
REV.	DATE	APPR.		APPR.	
1	2/08	NJK			
2	5/12	NJK			
3	12/13	AFG			
4	12/18	AFG			
			DRAWING NO.	504A	



DRAWN	K.A.E.	City of Oregon City Public Works Standard Drawings		SCALE	N.T.S.
ENGR.	A.F.G.			DATE	JUNE 2017
REV.	DATE	APPR.		APPR.	A.F.G.
1	2/2018	AFG			
2	12/2018	AFG			
			DRAWING NO.	612	

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *S. S. S.*  
Date: 06/07/2019



**SYMONS ENGINEERING CONSULTANTS, INC.**

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CLIENT

**DAVE GREEN**  
7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

**CANEMAH RESIDENCE**

SITE ADDRESS  
**413 4TH AVE  
OREGON CITY, OR 97045**

SHEET NAME

**CITY STANDARD DETAILS**

REVISION

- △ 10/3/18 ISSUED FOR PERMIT
- △ 1/8/19 REVISED PER PW COMMENTS
- △ 4/9/19 REISSUED WITH NO CHANGES
- △
- △
- △

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c.DWG**

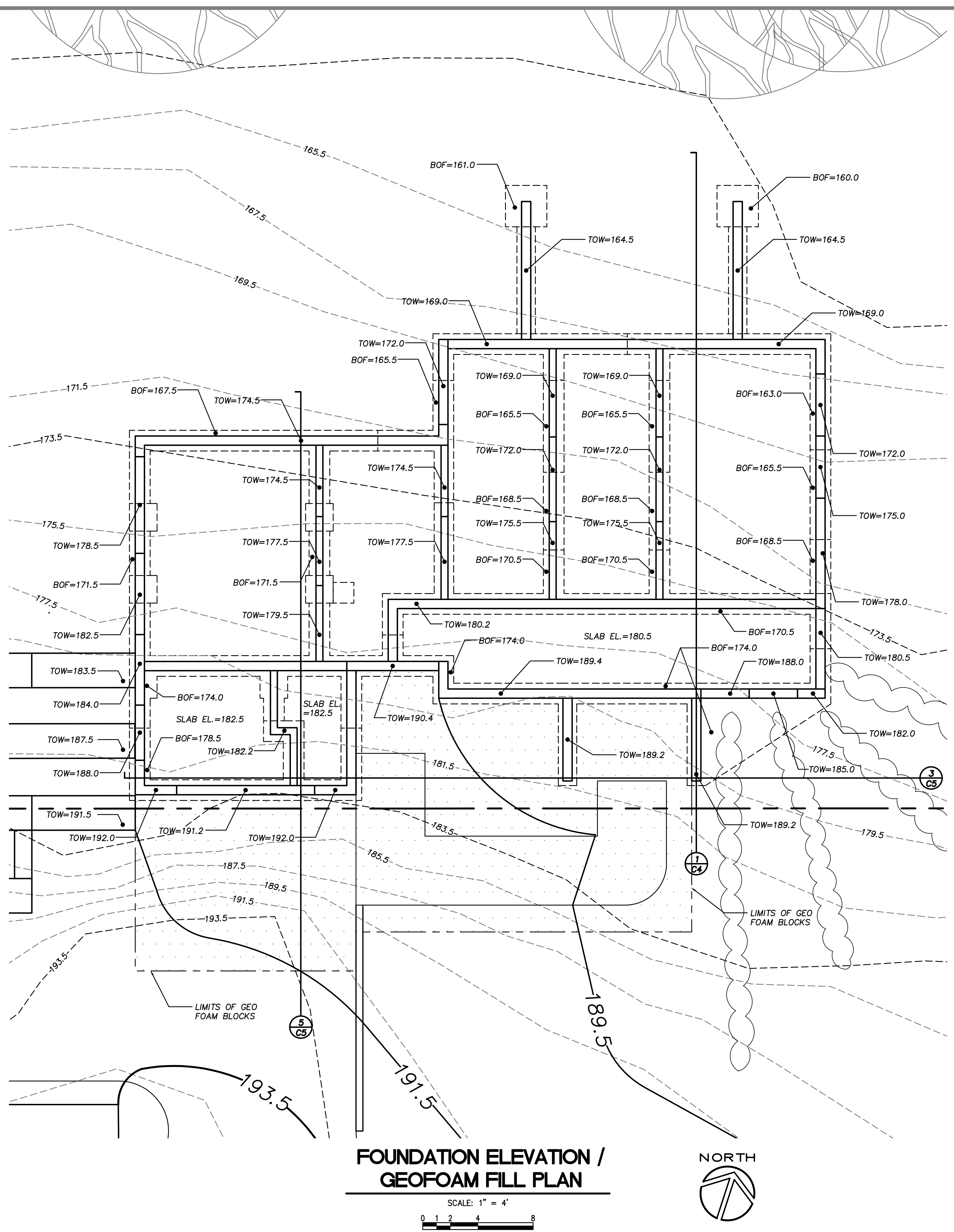
PROJECT NUMBER **17-34**

SHEET **9**

OF 11 SHEETS

**C7**

AS-BUILT NUMBER: 100139.08



**FOUNDATION ELEVATION /  
GEOFOAM FILL PLAN**

SCALE: 1" = 4'

NORTH

City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *S. Sampson*  
Date: 06/07/2019



**SYMONS ENGINEERING  
CONSULTANTS, INC.**

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phone 503 760 1353  
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CLIENT

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7537 SE 116TH AVE  
PORTLAND, OR 97266  
503-805-1774

PROJECT

**CANEMAH  
RESIDENCE**

SITE ADDRESS

**413 4TH AVE  
OREGON CITY, OR 97045**

SHEET NAME

**FOUNDATION ELEVATION/  
GEOFOAM FILL PLAN**

REVISION

- △ 4/5/19 ISSUED FOR DESIGN COORD.
- △ 4/9/19 GENERAL REVISIONS
- △
- △
- △
- △

ISSUE DATE **APRIL 9, 2019**

DRAWING FILE **17-34c.DWG**

PROJECT NUMBER **17-34**

**SHEET 10**

OF 11 SHEETS

**C8**



Lots 5 and 6 Block 9  
Oregon City

Tree Table

5/29/2018

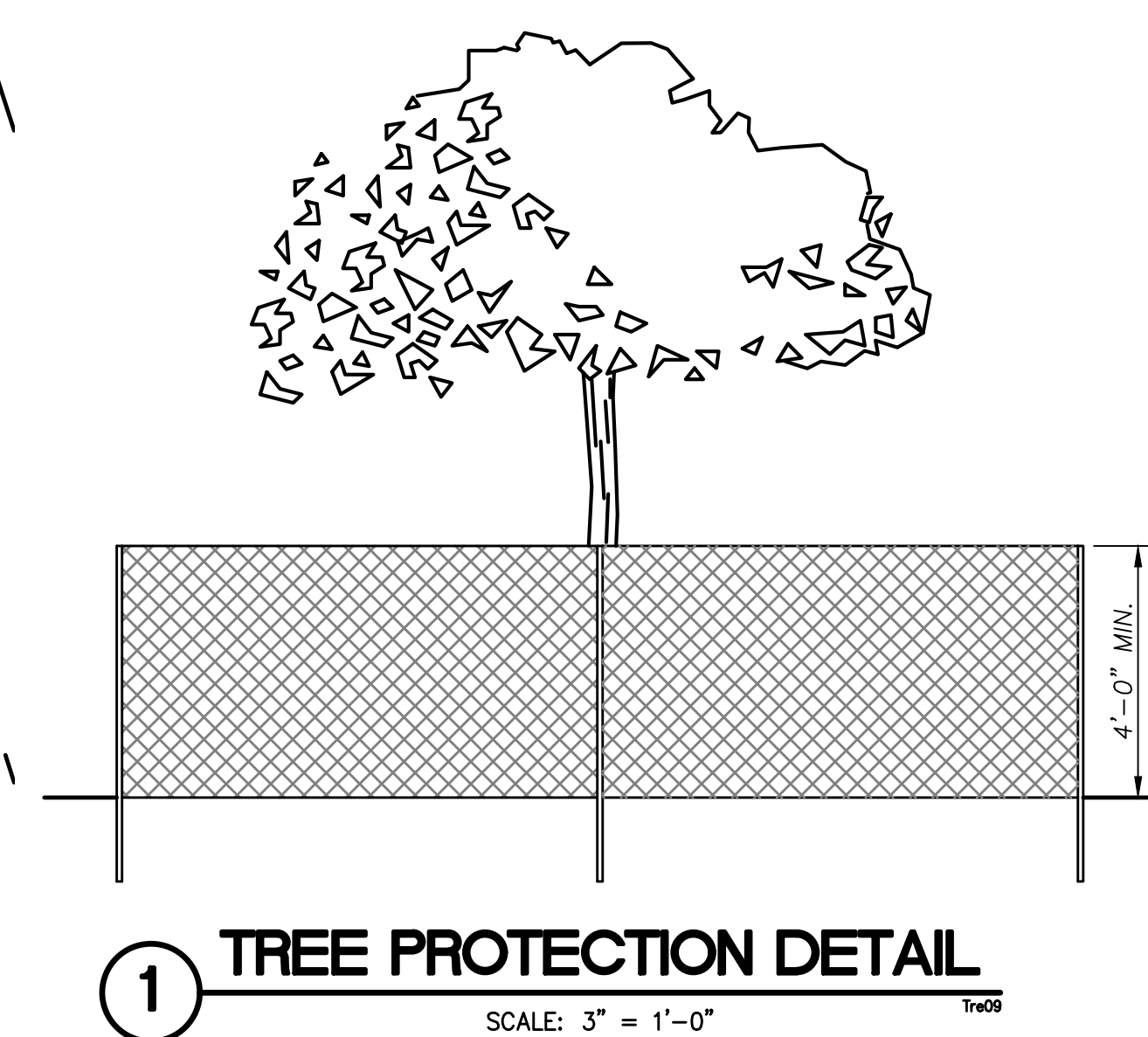
Tag	Species	DBH1	DBH2	radius	Remarks	Action	RPZ	Remove	Location
1	bigleaf maple	13	13	8	viable	protect	10	0	1
2	bigleaf maple	18	18	10	viable; dead branches	protect	12	0	1
3	bigleaf maple	23	23	12	viable	protect	16	0	1
4	bigleaf maple	17	17	9	viable; low live crown ratio	protect	12	0	1
5	bigleaf maple	21	21	12	viable; large tension root	protect	14	0	1
6	bigleaf maple	24	24	12	codominant stems @ 20'; one stem is broken	protect	16	0	1
7	bigleaf maple	28	28	14	viable; codominant stems @ 4'	protect	18	0	1
8	bigleaf maple	18	18	9	over house; excessive endweight	protect	12	0	1
9	bigleaf maple	10	10	8	viable	protect	8	0	1
10	bigleaf maple	24	0	12	basal decay; stump suckers; hazardous houses	remove	0	0	1
11	bigleaf maple	15	15	8	cavity; over-extended stem	protect	12	0	1
12	bigleaf maple	19	19	8	viable	protect	14	0	1
13	bigleaf maple	16	16	8	over-extended	protect	10	0	1
14	bigleaf maple	17	17	8	viable; ivy	protect	12	0	1
15	bigleaf maple	20	20	12	ivy	protect	14	0	1
16	bigleaf maple	27	27	16	multiple stems from base	protect	16	0	1
17	bigleaf maple	15	15	12	viable; ivy	protect	10	0	1
18	bigleaf maple	25	25	16	viable; ivy	protect	16	0	1
19	bigleaf maple	13	0	8	trunk decay; ivy; hazardous to proposed house	remove	0	0	1
20	western redcedar	33	33	18	right-of-way; topped for power	protect	22	0	2
21	English holly	13	0	8	nuisance species; right-of-way	remove	0	0	2
22	bigleaf maple	14	0	10	topped for power; terminal decline	remove	0	0	2
23	filbert	6	0	6	stump suckers	remove	0	0	2
24	tree of heaven	7	0	8	nuisance species	remove	0	0	1
25	tree of heaven	7	0	8	nuisance species	remove	0	0	1
26	bigleaf maple	28	28	14	viable; ivy	remove	0	28	1
27	bigleaf maple	17	17	9	viable; ivy	remove	0	17	1
28	bigleaf maple	17	0	10	multiple stems; broken stem; overextended	remove	0	0	1
29	bigleaf maple	25	25	12	viable; ivy; codominant from base	remove	0	25	1
30	bigleaf maple	18	18	10	viable; ivy; codominant from base	remove	0	18	1
31	bigleaf maple	16	16	8	viable; ivy	remove	0	16	1
32	bigleaf maple	16	16	8	viable; ivy	remove	0	16	1

Portland Tree Consulting

Field work done 3/14 and 5/16/2018 by Ryan Neumann, PN-5539A

### TREE PROTECTION NOTES

1. ALL REQUIRED TREE PROTECTION MEASURES SHALL BE INSTITUTED PRIOR TO ANY DEVELOPMENT ACTIVITIES, INCLUDING, BUT NOT LIMITED TO CLEARING, GRADING, EXCAVATION OR DEMOLITION WORK, AND SUCH MEASURES SHALL BE REMOVED ONLY AFTER COMPLETION OF ALL CONSTRUCTION ACTIVITY, INCLUDING NECESSARY LANDSCAPING AND IRRIGATION INSTALLATION, AND ANY REQUIRED PLAT, TRACT, CONSERVATION EASEMENT OR RESTRICTIVE COVENANT HAS BEEN RECORDED.
2. APPROVED CONSTRUCTION FENCING, A MINIMUM OF FOUR FEET TALL WITH STEEL POSTS PLACED NO FARTHER THAN TEN FEET APART, SHALL BE INSTALLED AT THE EDGE OF THE TREE PROTECTION ZONE OR DRIPLINE, WHICHEVER IS GREATER. AN ALTERNATIVE MAY BE USED WITH THE APPROVAL OF THE COMMUNITY DEVELOPMENT DIRECTOR.
3. APPROVED SIGNS SHALL BE ATTACHED TO THE FENCING STATING THAT INSIDE THE FENCING IS A TREE PROTECTION ZONE, NOT TO BE DISTURBED UNLESS PRIOR APPROVAL HAS BEEN OBTAINED FROM THE COMMUNITY DEVELOPMENT DIRECTOR.
4. NO CONSTRUCTION ACTIVITY SHALL OCCUR WITHIN THE TREE PROTECTION ZONE, INCLUDING, BUT NOT LIMITED TO; DUMPING OR STORAGE OF MATERIALS SUCH AS BUILDING SUPPLIES, SOIL, WASTE ITEMS; NOR PASSAGE OR PARKING OF VEHICLES OR EQUIPMENT.
5. THE TREE PROTECTION ZONE SHALL REMAIN FREE OF CHEMICALLY INJURIOUS MATERIALS AND LIQUIDS SUCH AS PAINTS, THINNERS, CLEANING SOLUTIONS, PETROLEUM PRODUCTS, AND CONCRETE OR DRY WALL EXCESS, CONSTRUCTION DEBRIS, OR RUN-OFF.
6. NO EXCAVATION, TRENCHING, GRADING, ROOT PRUNING OR OTHER ACTIVITY SHALL OCCUR WITHIN THE TREE PROTECTION ZONE UNLESS DIRECTED BY AN ARBORIST PRESENT ON SITE AND APPROVED BY THE COMMUNITY DEVELOPMENT DIRECTOR.
7. NO MACHINERY REPAIR OR CLEANING SHALL BE PERFORMED WITHIN TEN FEET OF THE DRIPLINE OF ANY TREES IDENTIFIED FOR PROTECTION.
8. DIGGING A TRENCH FOR PLACEMENT OF PUBLIC OR PRIVATE UTILITIES OR OTHER STRUCTURE WITHIN THE CRITICAL ROOT ZONE OF A TREE TO BE PROTECTED IS PROHIBITED. BORING UNDER OR THROUGH THE TREE PROTECTION ZONE MAY BE PERMITTED IF APPROVED BY THE COMMUNITY DEVELOPMENT DIRECTOR AND PURSUANT TO THE APPROVED WRITTEN RECOMMENDATIONS AND ON-SITE GUIDANCE AND SUPERVISION OF A CERTIFIED ARBORIST.
9. THE CITY MAY REQUIRE THAT A CERTIFIED ARBORIST BE PRESENT DURING ANY CONSTRUCTION OR GRADING ACTIVITIES THAT MAY AFFECT THE DRIPLINE OF TREES TO BE PROTECTED.
10. THE COMMUNITY DEVELOPMENT DIRECTOR MAY IMPOSE CONDITIONS TO AVOID DISTURBANCE TO TREE ROOTS FROM GRADING ACTIVITIES AND TO PROTECT TREES AND OTHER SIGNIFICANT VEGETATION IDENTIFIED FOR RETENTION FROM HARM. SUCH CONDITIONS MAY INCLUDE, IF NECESSARY, THE ADVISORY EXPERTISE OF A QUALIFIED CONSULTING ARBORIST OR HORTICULTURIST BOTH DURING AND AFTER SITE PREPARATION, AND A SPECIAL MAINTENANCE/MANAGEMENT PROGRAM TO PROVIDE PROTECTION TO THE RESOURCE AS RECOMMENDED BY THE ARBORIST OR HORTICULTURIST.



City of Oregon City  
Public Works Department  
APPROVED FOR CONSTRUCTION

Approved as Submitted  
 Approved as Noted in Red

By: *Samuel*  
Date: 06/07/2019



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CLIENT

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503-805-1774

PROJECT

CANEMAH RESIDENCE

SITE ADDRESS

413 4TH AVE  
OREGON CITY, OR 97045

SHEET NAME

TREE PROTECTION PLAN

REVISION

- △ 6/22/18 SHEET ADDED
- △ 10/3/18 ISSUED FOR PERMIT
- △ 1/8/19 REVISED PER PW COMMENTS
- △ 4/9/19 REISSUED WITH NO CHANGES

ISSUE DATE APRIL 9, 2019

DRAWING FILE 17-34c.DWG

PROJECT NUMBER 17-34

SHEET 11

OF 11 SHEETS

L1

AS-BUILT NUMBER: 100139.10