

General Engineering Details

City of Camas General Details ~ INDEX

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GENERAL CONSTRUCTION NOTES:

- 1. ALL CONSTRUCTION MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE MOST RECENTLY ADOPTED EDITION OF THE WSDOT/APWA "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION" AND STANDARD DETAIL SHEETS ATTACHED HEREWITH.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE LOCATION OF ALL EXISTING 2. UNDERGROUND UTILITIES, INCLUDING THE INVERT AND TOP ELEVATIONS AT CROSSING LOCATIONS, PRIOR TO THE START OF CONSTRUCTION AND TO NOTIFY THE CITY ENGINEER OF ANY POTENTIAL CONFLICTS.
- 3. CONTRACTOR SHALL CONTACT CLARK COUNTY'S 24-HOUR UTILITY NOTIFICATION CENTER AT CALLBEFOREYOUDIG.ORG OR CALL (800) 424-5555 (OR 811) TO SUBMIT A REQUEST FOR UTILITY LOCATES, A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
- ALL EXISTING MONUMENTS, PROPERTY CORNERS AND SURVEY MARKERS SHALL BE PROTECTED. 4. REPLACEMENT OF LOST, DESTROYED OR DAMAGED MARKERS SHALL BE DONE BY A LICENSED LAND SURVEYOR IN ACCORDANCE WITH RCW 58.09 AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL NOT EXCAVATE OVER FOUR FEET IN DEPTH WITHOUT USING 5 ADEQUATE SAFETY MEASURES. THE CONTRACTOR IS REFERRED TO TITLE 296 WAC. PART N FOR EXCAVATION, TRENCHING AND SHORING REQUIREMENTS.
- ALL UTILITY TRENCHES SHALL HAVE BEDDING, PRE-COVER AND BACKFILL MATERIAL AS 6 REQUIRED IN GENERAL DETAILS G2 WITHIN PAVED AREAS & G3 WITHIN UNPAVED AREAS. - WATER SETTLEMENT OF UTILITY TRENCHES IS NOT ALLOWED.
 - TRENCH LINES LOCATED WITHIN AN EXISTING ROADWAY SHALL BE PLATED OR TOPPED WITH COLD MIX.
 - CRUSHED ROCK BACKFILL OVERNIGHT IS NOT ALLOWED.
 - PLATES SHALL HAVE COLD MIX AROUND ALL EDGES.
- 7. ALL EROSION/SEDIMENT CONTROL MEASURES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EROSION/SEDIMENT CONTROL PLAN AND CITY OF CAMAS EROSION/SEDIMENT CONTROL DETAILS PRIOR TO ANY CLEARING OR THE START OF ANY CONSTRUCTION.
- 8. IF THE CITY INSPECTOR OR ENGINEER(S) HAS EVIDENCE OF POOR CONSTRUCTION PRACTICES OR EROSION CONTROL TECHNIQUES, A "STOP WORK" ORDER SHALL BE ISSUED UNTIL PROPER MEASURES HAVE BEEN TAKEN AND APPROVED BY THE CITY ENGINEERING STAFF.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CAMAS ENGINEERING 9 DEPARTMENT. APPROVAL SHALL BE OBTAINED PRIOR TO THE START OF CONSTRUCTION.
- 10. THE DEVELOPER/CONTRACTOR SHALL REQUEST A PRE-CONSTRUCTION MEETING WITH THE CITY OF CAMAS ENGINEERING DEPARTMENT PRIOR TO COMMENCING ANY WORK.
- 11. ANY SIGNIFICANT DEVIATIONS FROM THE PLANS WILL REQUIRE A SUBMITTAL FROM THE APPLICANT'S ENGINEER AND APPROVAL FROM THE CITY OF CAMAS ENGINEERING DEPARTMENT.
- 12. AN EROSION/SEDIMENT CONTROL BOND MAY BE REQUIRED BY THE CITY OF CAMAS PRIOR TO WORK COMMENCING.

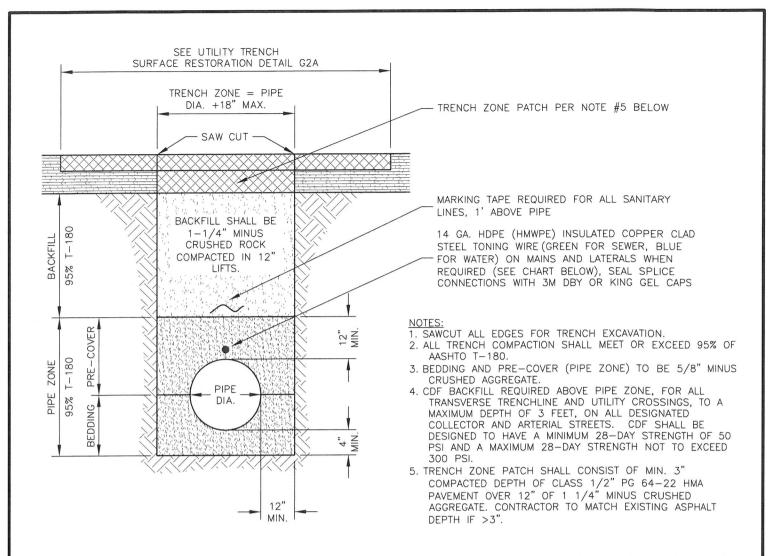
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UTILITY TRENCH WITHIN PAVED AREAS

UTILITY TYPE	MAIN TYPE	MIN. PIPE (MAIN) COVER	MIN. LATERAL OR SERVICE COVER
WATER	DISTRIBUTION (C) TRANSMISSION (A)	2.5' 3'	2'(C) 2'(B)
STORM	MAIN	5'	PER PLAN (MIN. 2')
	STEP (C)		1.5' (C)
SEWER:	STEF (C)	6'	4.5'(C)
	GRAVITY	6'	4.5' (C)
B. SERVICES (RE REQUIRED FOR MAINS DNLY ALLOWED WHERE A RE REQUIRED	5 12" DIA. AND LARGER APPROVED	

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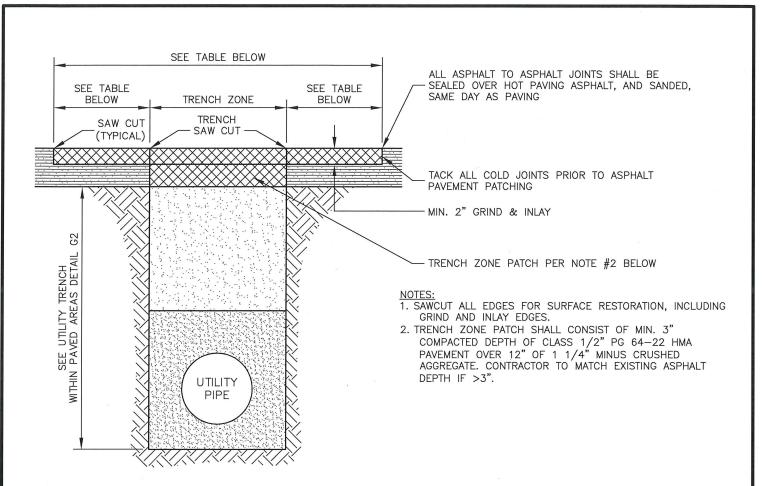
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UTILITY TRENCH SURFACE RESTORATION TABLE						
STREET CLASSIFICATION	TRANSVERSE TRENCH REQUIREMENTS	LONGITUDINAL TRENCH <u>REQUIREMENTS</u>				
LOCAL INCLUDING CUL—DE—SACS & DEAD ENDS (A)	3' MINIMUM EACH SIDE OF TRENCH; 10 FT MINIMUM TOTAL (B)(C)	FULL LANE WIDTH GRIND & INLAY (B)				
LOCAL THROUGH STREETS (A)	12 FT GRIND & INLAY EACH SIDE OF TRENCH (C)	FULL LANE WIDTH GRIND & INLAY				
COLLECTOR	12 FT GRIND & INLAY EACH SIDE OF TRENCH	FULL LANE WIDTH GRIND & INLAY				
ARTERIAL	12 FT GRIND & INLAY EACH SIDE OF TRENCH	FULL LANE WIDTH GRIND & INLAY				
(NOTES) A. MINIMUM REQUIREMENTS FOR PUBLIC AND PRIVATE STREETS B. OPTIONAL FULL DEPTH PATCH, OR GRIND AND INLAY C. SURFACE RESTORATION LESS THAN MIN. SHOWN REQUIRES PRIOR APPROVAL						

TRENCH SURFACE RESTORATION

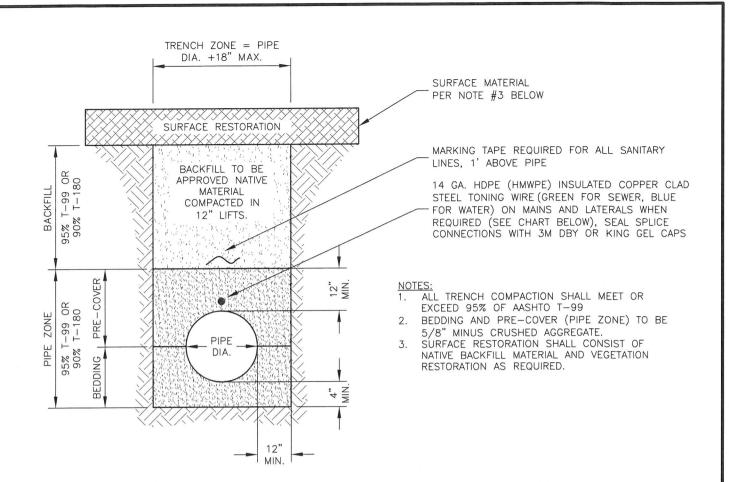
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UTILITY TRENCH SECTION FOR UNPAVED AREAS

UTILITY TYPE	MAIN TYPE	MIN. PIPE (MAIN) COVER	MIN. LATERAL OR SERVICE COVER
WATER	DISTRIBUTION (C) TRANSMISSION (A)	2.5' 3'	2'(C) 2'(B)
STORM	MAIN	5'	PER PLAN (MIN. 2')
	STEP (C)	5'	1.5' (C)
SEWER:	STEF (C)	6'	4.5'(C)
	GRAVITY	6'	4.5'(C)
B. SERVICES	RE REQUIRED FOR MAINS ONLY ALLOWED WHERE A RE REQUIRED	5 12" DIA. AND LARGER APPROVED	

TRENCH FOR UNPAVED AREAS

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TEST	STANDARD	FREQUENCY	TESTING AGENCY	TIMING	TEST REQUIREMENTS
LOT AREA COMPACTION	AASHTO T-99 OR AASHTO T-180	MIN. 1 PER EVERY 3' DEPTH, EACH LOT	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	MINIMUM COMPACTION REQUIRED: 95% WITH T-99 OR 90% WITH T-180
SUBGRADE CUT SECTION COMPACTION	CITY OF CAMAS	ALL	CITY OF CAMAS	PRIOR TO BASE ROCK	LOADED 10 CY TRUCK - PROOF ROLL
SUBGRADE FILL COMPACTION	AASHTO T-180	EVERY 2500 CY, MIN. 2; AND 1 PER 3 FT. OF DEPTH	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	95% MIN. COMPACTION
SUBGRADE FILL COMPACTION	CITY OF CAMAS	ALL	CITY OF CAMAS	PRIOR TO BASE ROCK	LOADED 10 CY TRUCK - PROOF ROLL
SUBGRADE GRADE CHECK ELEV.	CITY OF CAMAS	PER STATION (0+25)	CITY OF CAMAS	PRIOR TO BASE ROCK	+0.04' TOLERANCE
BASE ROCK GRADATION	WSDOT 9-03.9	ONE PER SOURCE	CERTIFIED LAB	PRIOR TO PLACEMENT	COPY TO INSPECTOR
BASE ROCK COMPACTION	AASHTO T-180	EVERY 1000 LF	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	95% MIN. COMPACTION
BASE ROCK GRADE CHECK ELEV.	CITY OF CAMAS	PER STATION (0+25)	CITY OF CAMAS	PRIOR TO TOP ROCK	MINIMUM SECTION REQUIRED
TOP ROCK GRADATION	WSDOT 9-03.9	ONE PER SOURCE	CERTIFIED LAB	PRIOR TO PLACEMENT	COPY TO INSPECTOR
TOP ROCK COMPACTION	CITY OF CAMAS	ALL	CITY OF CAMAS	PRIOR TO PAVEMENT	LOADED 10 CY TRUCK - PROOF ROLL
TOP ROCK GRADE CHECK ELEV.	CITY OF CAMAS	PER STATION (0+25)	CITY OF CAMAS	PRIOR TO PAVEMENT	+0.02' TOLERANCE
STORM SYSTEM INSPECTION	CITY OF CAMAS	AS REQUIRED	CITY OF CAMAS	PRIOR TO PLACEMENT	SYSTEM TO BE 100% FUNCTIONAL
AC GRADE & OIL CONTENT	WSDOT 9-03.8	ONE PER SOURCE	CERTIFIED LAB	PRIOR TO PLACEMENT	COPY TO INSPECTOR
AC COMPACTION	AASHTO T-209	ONE EVERY 1000 TONS	CERTIFIED LAB	DURING PLACEMENT	91% MIN. COMPACTION
UTILITY BACKFILL COMPACTION (IN RIGHT OF WAY)	AASHTO T-180	EVERY 500 FT, MIN 1/LINE; 2 AT 100 FT FOR FAILED TESTS	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	95% MIN. COMPACTION
UTILITY BACKFILL COMPACTION (OUT OF RIGHT OF WAY)	AASHTO T-99 OR AASHTO T-180	EVERY 500 FT, MIN 1/LINE; 2 AT 100 FT FOR FAILED TESTS	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	MINIMUM COMPACTION REQUIRED: 95% WITH T-99 OR 90% WITH T-180
UTILITY BACKFILL COMPACTION (OVER 6 FT. IN DEPTH)	AASHTO T-99 OR AASHTO T-180	EVERY 5 FT. OF DEPTH & SAME AS ABOVE	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	MINIMUM COMPACTION REQUIRED: 95% WITH T-99 OR 90% WITH T-180
	LOT AREA COMPACTION SUBGRADE CUT SECTION COMPACTION SUBGRADE FILL COMPACTION SUBGRADE FILL COMPACTION SUBGRADE GRADE CHECK ELEV. BASE ROCK GRADA CHECK ELEV. BASE ROCK GRADE CHECK ELEV. TOP ROCK GRADE CHECK ELEV. TOP ROCK GRADE CHECK ELEV. STORM SYSTEM INSPECTION AC GRADE & OIL CONTENT AC COMPACTION UTILITY BACKFILL COMPACTION (OUT OF RIGHT OF WAY) UTILITY BACKFILL COMPACTION	LOT AREA COMPACTIONAASHTO T-99 OR AASHTO T-180SUBGRADE CUT SECTION COMPACTIONCITY OF CAMASSUBGRADE FILL COMPACTIONAASHTO T-180SUBGRADE FILL COMPACTIONCITY OF CAMASSUBGRADE GRADE CHECK ELEV.CITY OF CAMASBASE ROCK GRADATIONWSDOT 9-03.9BASE ROCK COMPACTIONAASHTO T-180BASE ROCK GRADE CHECK ELEV.CITY OF CAMASDASE ROCK GRADATIONMSDOT 9-03.9BASE ROCK GRADE CHECK ELEV.CITY OF CAMASTOP ROCK GRADE CHECK ELEV.CITY OF CAMASTOP ROCK GRADE CHECK ELEV.CITY OF CAMASTOP ROCK COMPACTIONCITY OF CAMASSTORM SYSTEM INSPECTIONCITY OF CAMASAC GRADE & OIL CONTENTWSDOT 9-03.8AC COMPACTIONAASHTO T-209UTILITY BACKFILL COMPACTIONAASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-190 OR AASHTO T-190 OR AASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-190 OR AASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-190 OR AASHTO T-190 OR AASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-190 OR AASHTO T-190 OR AASHTO T-180UTILITY BACKFILL COMPACTIONAASHTO T-190 OR AASHTO T-190 OR AASHTO T-190 OR	LOT AREA COMPACTIONAASHTO T-99 OR AASHTO T-180MIN. 1 PER EVERY 3' DEPTH, EACH LOTSUBGRADE CUT SECTION COMPACTIONCITY OF CAMASALLSUBGRADE FILL COMPACTIONAASHTO T-180EVERY 2500 CY, MIN. 2; AND 1 PER 3 FT. OF DEPTHSUBGRADE FILL COMPACTIONCITY OF CAMASALLSUBGRADE GRADE CHECK ELEV.CITY OF CAMASPER STATION (0+25)BASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCEBASE ROCK GRADATIONMSDOT 9-03.9ONE PER SOURCEBASE ROCK GRADE CHECK ELEV.CITY OF CAMASPER STATION (0+25)TOP ROCK GRADATIONMSDOT 9-03.9ONE PER SOURCETOP ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCETOP ROCK GRADATIONCITY OF CAMASPER STATION (0+25)TOP ROCK GRADATIONCITY OF CAMASALLTOP ROCK GRADATIONCITY OF CAMASPER STATION (0+25)TOP ROCK GRADATIONCITY OF CAMASALLTOP ROCK GRADATIONCITY OF CAMASALLTOP ROCK GRADE CHECK ELEV.CITY OF CAMASALLTOP ROCK GRADE CHECK ELEV.CITY OF CAMASALLTOP ROCK GRADE CHECK ELEV.CITY OF CAMASAS REQUIREDAC GRADE & OIL CONTENTWSDOT 9-03.8ONE PER SOURCEAC GRADE & OIL CONTENTWSDOT 9-03.8ONE PER SOURCEAC COMPACTIONAASHTO T-180EVERY 500 FT, MIN 1/UNE; 2UTILITY BACKFILL COMPACTIONAASHTO T-180EVERY 500 FT, MIN 1/UNE; 2UTILITY BACKFILL COMPACTIONAASHTO T-190 OREVERY 500 FT, MIN 1/UNE; 2UTILITY BACKFILL COMPACTION	LOT AREA COMPACTIONAASHTO T-99 OR AASHTO T-180MIN. 1 PER EVERY 3' DEPTH, EACH LOTCERTIFIED LABSUBGRADE CUT SECTION COMPACTIONCITY OF CAMASALLCITY OF CAMASSUBGRADE FILL COMPACTIONAASHTO T-180EVERY 2500 CY, MIN. 2; AND 1 PER 3 FT. OF DEPTHCERTIFIED LABSUBGRADE FILL COMPACTIONCITY OF CAMASALLCITY OF CAMASSUBGRADE FILL COMPACTIONCITY OF CAMASALLCITY OF CAMASSUBGRADE GRADE CHECK ELEV.CITY OF CAMASPER STATION (0+25)CITY OF CAMASBASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABBASE ROCK GRADATIONAASHTO T-180EVERY 1000 LFCERTIFIED LABBASE ROCK GRADE CHECK ELEV.CITY OF CAMASPER STATION (0+25)CITY OF CAMASTOP ROCK GRADE CHECK ELEV.CITY OF CAMASPER STATION (0+25)CITY OF CAMASTOP ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABTOP ROCK GRADATIONCITY OF CAMASALLCITY OF CAMASTOP ROCK GRADE CHECK ELEV.CITY OF CAMASALLCITY OF CAMASTOP ROCK GRADE CHECK ELEV.CITY OF CAMASALLCITY OF CAMASAC COMPACTIONCITY OF CAMASAS REQUIREDCITY OF CAMASAC COMPACTIONCITY OF CAMASAS REQUIREDCITY OF CAMASAC COMPACTIONCASHTO T-209ONE EVERY 1000 TONSCERTIFIED LABUTILITY BACKFILL COMPACTIONAASHTO T-180AT 100 FT FOR FAILED TESTSCERTIFIED LABUTILITY BACKFILL COMPACTIONAASHTO T-99 OREVERY 500 FT, MIN	LOT AREA COMPACTIONAASHTO T-99 OR AASHTO T-180MIN. 1 PER EVERY 3' DEPTH, EACH LOTCERTIFIED LABDAILY, AS MATL IS PLACEDSUBGRADE CUT SECTION COMPACTIONCITY OF CAMASALLCITY OF CAMASPRIOR TO BASE ROCKSUBGRADE FILL COMPACTIONAASHTO T-180EVERY 2500 CY, MIN. 2; AND 1 PER 3 FT. OF DEPTHCERTIFIED LABDAILY, AS MATL IS PLACEDSUBGRADE FILL COMPACTIONCITY OF CAMASALLCITY OF CAMASPRIOR TO BASE ROCKSUBGRADE GRADE CHECK ELEV.CITY OF CAMASALLCITY OF CAMASPRIOR TO BASE ROCKBASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABPRIOR TO BASE ROCKBASE ROCK COMPACTIONAASHTO T-180EVERY 1000 LFCERTIFIED LABDAILY, AS MATL IS PLACEDBASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABDAILY, AS MATL IS PLACEDBASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABDAILY, AS MATL IS PLACEDBASE ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABPRIOR TO PLACEMENTTOP ROCK GRADATIONWSDOT 9-03.9ONE PER SOURCECERTIFIED LABPRIOR TO PAVEMENTTOP ROCK GRADATIONCITY OF CAMASALLCITY OF CAMASPRIOR TO PAVEMENTTOP ROCK GRADATIONCITY OF CAMASPER STATION (0+25)CITY OF CAMASPRIOR TO PAVEMENTTOP ROCK GRADE CHECK ELEV.CITY OF CAMASAS REQUIREDCITY OF CAMASPRIOR TO PAVEMENTTOP ROCK GRADE CHECK ELEV.CITY OF CAMASAS REQUIREDCITY OF CAMASPRIOR TO

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STANDARD TESTING REQUIREMENTS - PAGE 1 OF 2

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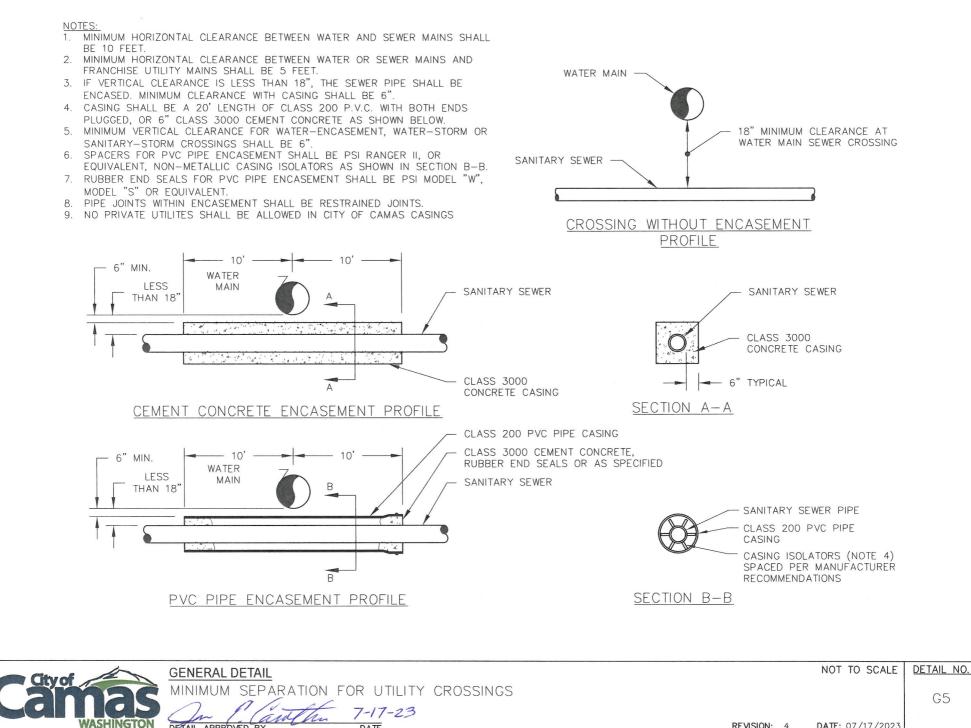
CATEGORY	TEST	STANDARD	FREQUENCY	TESTING AGENCY	TIMING	TEST REQUIREMENTS
LOT	LOT AREA COMPACTION	AASHTO T-99 OR AASHTO T-180	MIN. 1 PER EVERY 3' DEPTH, EACH LOT	CERTIFIED LAB	DAILY, AS MAT'L IS PLACED	MINIMUM COMPACTION REQUIRED: 95% WITH T-99 OR 90% WITH T-180
STORM	STORM SEWER MANDREL TEST	WSDOT 7-17.3	AT CITY REQUEST	CONTRACTOR	PRIOR TO BASE ROCK	EFFECTIVE LENGTH > D, MANDREL DIA > 0.95D
STORM	STORM SEWER TV TEST	WSDOT 7-17.3	AT CITY REQUEST	CONTRACTOR	PRIOR TO BASE ROCK	INSPECTION REPORT AND VIDEO RECORDING ON DVD
SEWER	CONVENTIONAL SEWER - AIR TEST	WSDOT 7-17.3	MAINS, LATERALS	CONTRACTOR	PRIOR TO BASE ROCK	4 PSI FOR 1 MINUTE PER 100 LF OF MAIN
SEWER	STEF & CONVENTIONAL SEWER - MANDREL TEST	WSDOT 7-17.3	AT CITY REQUEST	CONTRACTOR	PRIOR TO BASE ROCK	EFFECTIVE LENGTH > D, MANDREL DIA > 0.95D
SEWER	STEF & CONVENTIONAL SEWER - TV TEST	WSDOT 7-17.3	REQUIRED ON MAINS	CONTRACTOR	PRIOR TO BASE ROCK	INSPECTION REPORT AND VIDEO RECORDING ON DVD
SEWER	CONVENTIONAL SEWER TV TEST	WSDOT 7-17.3	REQUIRED ON MAINS AND LATERALS	CONTRACTOR	PRIOR TO FINAL ACCEPTANCE	INSPECTION REPORT AND VIDEO RECORDING ON DVD
SEWER	STEF & CONVENTIONAL SEWER - MANHOLE VACUUM TEST	CITY OF CAMAS	1:4 MH MINIMUM; ADD 1 MH PER FAILURE	CERTIFIED LAB	AFTER PAVEMENT INSTALLED, PRIOR TO MANHOLE COATING	-10 IN. Hg VACUUM FOR 60 SECONDS
SEWER	STEF & CONVENTIONAL SEWER - MANHOLE COATING ADHESION TEST	ASTM D-4541 AND ASTM D-7234	ALL MANHOLES	CONTRACTOR	PRIOR TO FINAL ACCEPTANCE	COATING MANUFACTURERS RECOMMENDED TEST PROCEDURE
SEWER	STEF SEWER - AIR TEST	WSDOT 7-17.3	MAINS, LATERALS	CONTRACTOR	PRIOR TO BASE ROCK	5 PSI FOR 1 MINUTER PER 100 FT.
SEWER	STEF SEWER - TONE TEST	CITY OF CAMAS	MAINS, SERVICES	CITY OF CAMAS	PRIOR TO BASE ROCK	CONTINUOUS TONE
SEWER	STEP SEWER - TONE TEST	CITY OF CAMAS	MAINS, SERVICES	CONTRACTOR	PRIOR TO BASE ROCK	CONTINUOUS TONE
SEWER	STEP SEWER - HYDROSTATIC TEST	CITY OF CAMAS	MAINS, AIR/VAC	CITY OF CAMAS	PRIOR TO BASE ROCK	15 MIN. AT 150 PSI (MIN.) OR WORKING PRESSURE (HIGHER OF 2), < 200 PSI
SEWER	STEP SEWER - SERVICE	CITY OF CAMAS	ALL SERVICES	CONTRACTOR	PRIOR TO BASE ROCK	PIPE MANUFACTURER RECOMMENDED HYDROSTATIC TEST PROCEDURE
SEWER	ALL SEWER - OPERATIONS INSPECTION	CITY OF CAMAS	MAINS, SERVICES	CITY OF CAMAS	PRIOR TO PAVING	OPERATIONS TO INSPECT PRIOR TO FINAL PAVE
WATER	CHLORINATE WATER MAINS	WSDOT 7-09.3 (24)	ALL	CONTRACTOR	PRIOR TO BACTERIA SAMPLE	50mg/I AT INSERTION, 25 mg/I AFTER 24 HRS, AVAILABLE CHLORINE, WATER DEPT. TO FILL LINES
WATER	BACTERIA WATER SAMPLE	AWWA	MIN. 1 PER BLOWOFF	CITY OF CAMAS	PRIOR TO PRESSURE TEST AND BASE ROCK	E. COLI & COLIFORM ABSENT
WATER	WATER LINE PRESSURE TEST	WSDOT 7-09.3(23)	MAIN, SERVICE, F.H., AIR/VAC DUCTILE/HDPE	CONTRACTOR	PRIOR TO BASE ROCK	15 MIN. AT 200 PSI (MIN.) AT HIGH POINT. NOT TO EXCEED 250 PSI AT LOW POINT.
WATER	ALL WATER - OPERATIONS INSPECTION	CITY OF CAMAS	MAINS, SERVICES	CITY OF CAMAS	PRIOR TO PAVING	OPERATIONS TO INSPECT PRIOR TO FINAL PAVE

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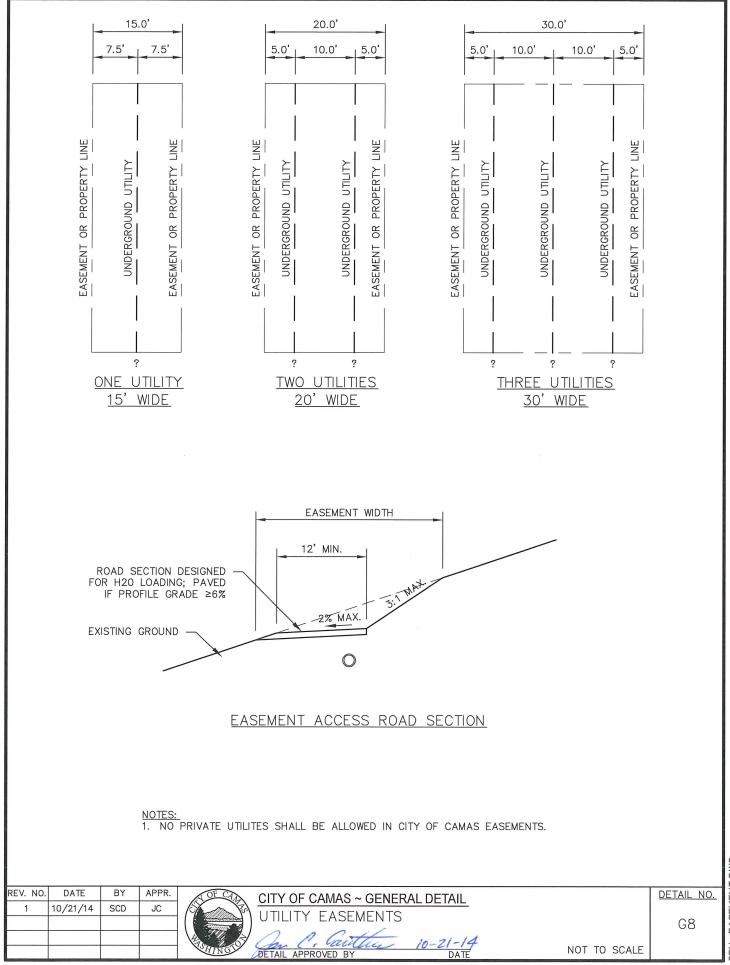
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EASEMENT DESIGN NOTES:

- 1. PUBLIC EASEMENTS FOR WATER, SEWER OR STORMWATER UTILITES LOCATED BETWEEN LOTS, ALONG BACK LOT LINES, WITHIN OPEN SPACES OR THROUGH OTHER TRACTS OR PARCELS WITHIN OR ADJACENT TO A DEVELOPMENT ARE DISCOURAGED AND ONLY ALLOWED ON A CASE BY CASE BASIS AS APPROVED BY THE CITY.
- 2. IF SUCH EASEMENT IS ALLOWED THE FOLLOWING REQUIREMENTS AND RESTRICTIONS SHALL THEREBY APPLY TO ALL SUCH EASEMENTS UNLESS SUCH REQUIREMENTS AND RESTRICTIONS ARE SPECIFICALLY WAIVED BY THE CITY.
 - a. ALL PUBLIC UTILITIES LOCATED WITHIN A PERMITTED EASEMENT SHALL BE INSTALLED IN ACCORDANCE WITH AND MEET THE REQUIREMENTS OF CITY OF CAMAS GENERAL DETAIL #G2 AS SHOWN IN THE CITY OF CAMAS DESIGN STANDARD MANUAL.
 - b. CONSTRUCTION OR INSTALLATION OF ACCESSORY STRUCTURES, SHEDS, BRICK CONCRETE OR MASONRY GRILLS OR BARBEQUES, DECKS, PLAY STRUCTURES, JUNGLE GYMS, SWING SETS, COVERED PATIOS, SWIMMING POOLS, SPORT COURTS, BRICK OR STONE PAVER WALKWAYS OR DRIVES, LANDSCAPING (OTHER THAN BARK DUST OR LAWN), LANDSCAPING WATER FEATURES SUCH AS COY PONDS OR WATERFALLS, RAISED BED GARDENS OR ANY OTHER PERMANENT OR SEMI-PERMANENT IMPROVEMENTS WITHIN OR ACROSS THE LIMITS OF THE EASEMENT IS PROHIBITED.
 - c. CONSTRUCTION OR INSTALLATION OF CONCRETE SIDEWALKS OR DRIVEWAYS, ASPHALT DRIVEWAYS OR PATHS, GRAVEL DRIVES OR RV PADS, LAWNS OR BARK DUST AREAS ARE ALLOWED WITHIN THE LIMITS OF THE EASEMENT.
 - d. SHOULD THE CITY BE REQUIRED TO DISRUPT THE SURFACE OF THE UTILITY EASEMENT THE CITY WILL PROVIDE SURFACE RESTORATION LIMITED TO THOSE APPROVED SURFACE TREATMENTS NOTED IN SECTION C. ABOVE.
 - e. FOR PUBLIC UTILITY EASEMENTS LOCATED ON SLOPES OF 6% OR GREATER (CROSS SLOPE OR PROFILE GRADE) THERE SHALL BE INSTALLED A MINIMUM 12' WIDE ACCESS ROAD CAPABLE OF SUPPORTING AN H20 TRAFFIC LOAD INSTALLED WITH A MAXIMUM CROSS SLOPE OF 2%. FOR PROFILE GRADES 6% OR STEEPER (TO A MAXIMUM GRADE OF 15%) THE MINIMUM 12' WIDE SURFACE WIDTH SHALL BE PAVED.

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