

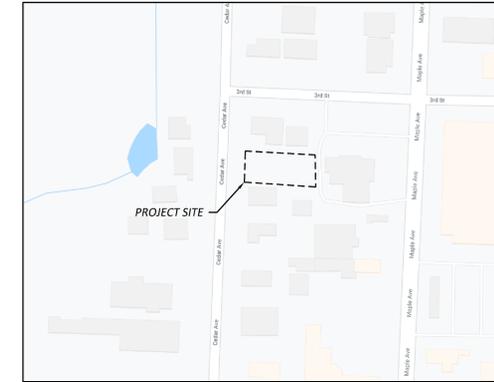
CEDAR URBAN TOWNHOMES

225 CEDAR AVE SNOHOMISH, WA 98290

SW 1/4, NW 1/4, SECTION 18, TOWNSHIP 28 NORTH, RANGE 6 EAST, W.M.



CAUTION!
CALL BEFORE YOU DIG!
BURIED UTILITIES EXIST IN THE AREA AND UTILITY INFORMATION SHOWN MAY NOT BE COMPLETE. CONTACT THE ONE- CALL UTILITY LOCATE SERVICE A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION
1-800-424-5555



VICINITY MAP
NTS



OWNER
L'ENTERPRISE LLC
6065 NE 126TH PL
KIRKLAND, WA 98034
206.909.4277
CONTACT: DYLAN MUZZY

CONSULTANTS
ARCHITECT
CG ENGINEERING
POINT OF VISION
1628 46TH ST SE
EVERETT, WA 98203
425.772.8207
CONTACT: BOB BOZORTH

CIVIL ENGINEER
CG ENGINEERING
250 4TH AVE S, SUITE 200
EDMONDS, WA 98020
425.778.8500 FAX 778.5536
CONTACT: JARED UNDERBRINK

SURVEYOR
PACIFIC COAST SURVEYS
PO BOX 13619
MILL CREEK, WA 98082
425.512.7099 FAX 357.3577
CONTACT: DARREN RIDDLE

SOIL/GEOTECH ENGINEER
NELSON GEOTECHNICAL ASSOCIATES
17311 135TH AVE NE, SUITE A-500
WOODINVILLE, WA 98072
425.486.1669
CONTACT: LEE BELLAH

LEGAL DESCRIPTION
LOT 10, BLOCK 2, FERGUSON'S FIRST ADDITION TO SNOHOMISH, ACCORDING TO THE PLAT THEREOF RECORDED IN VOLUME 1 OF PLATS, PAGE 15, RECORDS OF SNOHOMISH COUNTY, WASHINGTON

BENCHMARK
ORIGINAL BM: SNOHOMISH COUNTY BM CT12: FND NAIL W/ TAG IN ASPHALT 7.5' NORTH OF SOUTHERLY FACE OF CURB ON 4TH ST, 87' W OF THE CENTERLINE OF AVENUE A. ELEV. = 134.78
TBM - A: PUNCHED 'X' IN SOUTHERLY UPPER FLANGE BOLT IN FIRE HYDRANT @ SOUTHEAST QUADRANT OF INTERSECTION OF UNION AVE. & 4TH ST. ELEV. = 116.47
TBM - B: PUNCHED 'X' IN EASTERLY UPPER FLANGE BOLT IN FIRE HYDRANT IN SOUTHWEST QUADRANT OF INTERSECTION OF CEDAR ST. & 4TH ST. ELEV. = 92.33

DATUM
NAVD 88

PARCEL NUMBER
0044400-0201000

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C5.1	SITE & STREET IMPROVEMENT PLAN & DETAILS
C5.2	SITE & STREET IMPROVEMENT DETAILS

GENERAL NOTES

GENERAL NOTES:

- ALL SITE GRADE WORK MUST COMPLY WITH CHAPTER 33 OF THE UNIFORM BUILDING CODE (1997 EDITION), CITY OF SNOHOMISH PUBLIC WORKS DESIGN AND CONSTRUCTION STANDARDS, AND/OR WSDOT/APWA STANDARDS AS SPECIFICATIONS APPLY.
- IF CUT OR FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED, ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT ARE TO FOLLOW CITY SPECIFICATIONS AND TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOIL MECHANICS.
- PUBLIC STREET ARE TO BE KEPT CLEAR OF DIRT AND DEBRIS DURING EXCAVATIONS AND FILL OPERATIONS.
- THE SITE SOILS ARE GENERALLY CONSIDERED MOISTURE SENSITIVE AND AS SUCH ARE SUSCEPTIBLE TO DISTURBANCE BY CONSTRUCTION EQUIPMENT. PARTICULARLY DURING PERIODS OF WET WEATHER, THE GRADING CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO LIMIT SURFACE DISTURBANCE AND PROTECT THE SITE GRADING AREA FROM EXCESSIVE RUNOFF EROSION.
- AREAS TO RECEIVE FILL SHALL BE CLEARED OF ALL VEGETATION AND DELETERIOUS MATTER.
- AREAS TO RECEIVE FILL SHALL BE PROOF-ROLLED, ALL LOOSE AND SOFT AREAS SHALL BE REMOVED AND REPLACED WITH STRUCTURAL FILL. FILLS PLACED ON SLOPES SHALL BE BENCHMARKED OR KEVED INTO THE EXISTING GROUND.
- ALL FILL MATERIALS USED SHALL BE FREE OF VEGETATION AND DELETERIOUS MATTER AND SHALL NOT CONTAIN ROCKS GREATER THAN SIX INCHES IN DIAMETER.
- STRUCTURAL FILLS SHALL BE PLACED IN MAXIMUM 8" TO 10" THICK LOOSE HORIZONTAL LIFTS AND SPREAD UNIFORMLY.
- THE SURFACE OF ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORK DAY.
- STOCKPILES ARE TO BE LOCATED IN SAFE AREAS AND ADEQUATELY PROTECTED BY TEMPORARY SEEDING AND MULCHING. HYDROSEEDING IS PREFERRED.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING, LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR/ENGINEER AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR/ENGINEER'S NAME AND TELEPHONE NUMBER ARE SHOWN ON THE PLANS.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITY SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER.
- FERTILIZER SHALL BE APPLIED AT 40# PER ACRE OF 10-20-20 (10# PER 100 SQUARE FEET) OR EQUIVALENT.
- A COPY OF THE APPROVED PLANS MUST BE ON-SITE WHENEVER CONSTRUCTION IS IN PROGRESS. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO OBTAIN ANY OTHER RELATED OR REQUIRED PERMITS PRIOR TO BEGINNING OF CONSTRUCTION.
- SUBMITTAL OF REPRODUCIBLE AS-BUILT PLANS IS REQUIRED PRIOR TO APPROVAL OF ANY CERTIFICATE OF OCCUPANCY OR ACCEPTANCE OF CONSTRUCTION IMPROVEMENTS.
- ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON SHOULD BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN.
- THE CITY OF SNOHOMISH ENGINEERING DIVISION MUST BE NOTIFIED AT LEAST 24 HOURS PRIOR TO COMMENCING CONSTRUCTION.

CONSTRUCTION SEQUENCE:

- ATTEND PRE-CONSTRUCTION MEETING WITH THE CITY OF SNOHOMISH.
- CALL 1-800-424-5555 FOR UNDERGROUND LOCATES
- INSTALL TESC MEASURES, FLAG OR FENCE CLEARING LIMITS TESC MEASURES SHALL BE MAINTAINED UNTIL FINAL GRADING, PAVING AND SOIL AMENDMENT.
- INSTALL UTILITIES, INCLUDING STORM DRAINAGE, SANITARY SEWER, WATER, POWER, GAS, ETC.
- PERFORM FINAL GRADING, PAVING AND SURFACING IMPROVEMENTS.
- HYDROSEED AND MULCH ALL EXPOSED AREAS.
- SWEEP AND CLEAN ALL PAVED AREAS, THEN CLEAN THE STORM SYSTEM.
- REMOVE ALL CLEARING LIMITS AND TEMPORARY EROSION/SEDIMENTATION CONTROL FACILITIES ONLY AFTER EXPOSED AREAS ON SITE ARE STABILIZED.
- CALL FOR FINAL INSPECTION OF FACILITIES.

T.E.S.C. NOTES:

- THE TEMPORARY EROSION CONTROL SYSTEM SHALL BE INSTALLED PRIOR TO ALL OTHER CONSTRUCTION.
- WHERE POSSIBLE NATURAL VEGETATION WILL BE MAINTAINED FOR SILT CONTROL.
- AS CONSTRUCTION PROGRESSES AND SEASONAL CONDITIONS DICTATE, THE EROSION CONTROL FACILITIES SHALL BE MAINTAINED AND/OR ALTERED AS REQUIRED BY THE CITY ENGINEER TO ENSURE CONTINUING EROSION/SEDIMENTATION CONTROL.
- TEMPORARY SILTATION PONDS AND ALL TEMPORARY SILTATION CONTROLS SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS IMPLEMENTED, PERMANENT DRAINAGE FACILITIES ARE OPERATIONAL, AND THE POTENTIAL FOR EROSION HAS PASSED.
- ALL DISTURBED LAND AREAS THAT WILL BE LEFT FOR 30 DAYS OR MORE DURING THE PERIODS OF MARCH 1 TO MAY 15 AND AUGUST 15 TO OCTOBER 1 SHALL BE IMMEDIATELY SEEDED WITH A MIX AND BY A METHOD APPROVED BY THE CITY OF SNOHOMISH PUBLIC WORKS DEPARTMENT AND MAINTAINED UNTIL SEED GERMINATION IS ASSURED. IN ADDITION TO SEEDING, SLOPES OF 25% OR GREATER WILL BE MULCHED WITH 2.0 TONS OF STRAW PER ACRE, OR WITH AN APPROVED EQUAL STOCKPILED MATERIALS SHALL BE COVERED WITH AN IMPERMEABLE MEMBRANE AND SECURED TO HOLD IT IN PLACE. DURING THE REST OF THE YEAR, TEMPORARY SOIL STABILIZATION MUST BE APPLIED IMMEDIATELY TO DISTURBED AREAS THAT WILL BE EXPOSED FOR 7 DAYS OR MORE, AND IMMEDIATELY TO SLOPES GREATER THAN 25% THAT WILL BE LEFT EXPOSED FOR 3 DAYS OR MORE.
- THE PUBLIC RIGHT-OF-WAY SHALL BE KEPT CLEAN, TRACKING OF MUD AND DEBRIS FROM THE SITE WILL NOT BE ALLOWED. FAILURE TO COMPLY WITH THIS CONDITION WILL RESULT IN ALL WORK ON THE SITE BEING STOPPED. PROVIDE AND MAINTAIN TEMPORARY SEDIMENT COLLECTION FACILITIES TO ENSURE SEDIMENT OR OTHER HAZARDOUS MATERIALS DO NOT ENTER THE STORM DRAINAGE SYSTEM. AS CONSTRUCTION PROGRESSES AND UNEXPECTED SEASONAL CONDITIONS DICTATE, MORE EROSION CONTROL FACILITIES MAY BE REQUIRED TO ENSURE COMPLETE SILTATION CONTROL ON THE PROJECT. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE OR CONTRACTOR TO ADDRESS ANY NEW CONDITION THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO ENSURE COMPLIANCE.

WATER NOTES:

- ALL FIRE HYDRANTS SHALL BE MUELLER CENTURION A-423 929. THE BODY IS PAINTED WITH TWO COATS OF FAR WEST YELLOW HYDRANT PAINT. INSTALL A BLUE REFLECTOR ONE FOOT OFF CENTERLINE TOWARDS HYDRANT. A MINIMUM CLEARANCE OF 3' SHALL BE MAINTAINED FROM ANY OBSTRUCTIONS. ALL FIRE HYDRANTS INSTALLED IN UNPAVED AREAS SHALL HAVE A 2'X2'X4" CONCRETE PAD PLACED AROUND THE BASE.
- THE WATER MAIN SHALL BE INSTALLED ONLY AFTER THE ROADWAY SUBGRADE IS BACKFILLED, GRADED AND COMPACTED IN CUT AND FILL AREAS. THE ROAD CENTERLINE SHALL BE STAKED ALONG WITH THE PROPERTY LINES.
- ALL WATER VALVES INSTALLED IN UNPAVED AREAS SHALL HAVE A 2'X2'X4" CONCRETE PAD PLACED AROUND THE VALVE BOX.
- WHERE SHACKLE RESTRAINT IS REQUIRED, THE ROD SHALL BE 3/4" DIA. THE BOLTS SHALL BE 3/4" STAR NATIONAL PRODUCTS NO. S517 OR EQUAL. RESTRAINT CLAMP AND BUSHINGS SHALL BE STAR NATIONAL PRODUCTS NO. 511 OR EQUAL. ALL PARTS ARE TO BE CAD-PLATED.
- ALL FITTINGS SHALL BE BLOCKED UNLESS OTHERWISE SPECIFIED.
- DEFLECT THE WATER MAIN ABOVE OR BELOW EXISTING UTILITIES AS REQUIRED TO MAINTAIN 3 FT. MINIMUM COVER AND 18 IN. VERTICAL CLEARANCE BETWEEN UTILITIES UNLESS OTHERWISE SPECIFIED. THE WATER MAIN SHALL NOT BE JOINTED WITHIN 8' OF ALL CROSSINGS WITH LESS THAN 18" OF VERTICAL CLEARANCE. ALL CLEARANCES 8" AND LESS SHALL BE SEPARATED BY HDPE INERT FOAM BLOCKING OR APPROVED EQUAL.
- AFTER DISINFECTING THE WATER MAIN, DISPOSE OF CHLORINATED WATER BY DISCHARGING TO THE NEAREST OPERATING SANITARY SEWER.
- ALL PIPE AND FITTING NOT DISINFECTED IN PLACE SHALL BE SWABBED WITH 200 PPM CHLORINE SOLUTION PRIOR TO INSTALLATION.
- IF THE INITIAL TAP OR EXTENSION REQUIRES SHUTTING DOWN AN EXISTING WATER MAIN, THE CITY MAY REQUIRE TWO WEEKS NOTIFICATION IN ORDER TO PLACE A PUBLIC NOTICE IN THE LOCAL PAPER. NO TAPS WILL BE ALLOWED ON MONDAY, FRIDAY, OR WEEKENDS. THE SNOHOMISH PUBLIC WORKS DEPARTMENT SHALL OPERATE ALL WATER VALVES IN RIGHT-OF-WAY.
- CAST IRON FITTINGS SHALL BE USED IN ALL CASES WHERE THE DEFLECTION AT THE PIPE JOINTS EXCEEDS THREE DEGREES EXCEPT ON SWEEP RADIIUSES. THE INSPECTOR MAY ALLOW THE CONTRACTOR TO INSTALL NORMAL OR SHORT LENGTHS OF PIPE, PROVIDING THE MAXIMUM DEFLECTION PER JOINT SHALL NOT EXCEED THREE-FOURTHS THE MAXIMUM PERMISSIBLE DEFLECTION AS OUTLINED IN THE PIPE MANUFACTURER'S DATA. DEFLECTION OF JOINTS OF PVC PIPE IS NOT ALLOWED.
- THE CONTRACTOR SHALL FLUSH, TEST, AND CHLORINATE THE LINES IN THE PRESENCE OF THE UTILITIES INSPECTOR. LINES SHALL BE PRESSURE TESTED AT 150 PSI PLUS EXISTING LINE PRESSURE (MIN 200 PSI) FOR 15 MINUTES. WATER SAMPLES WILL BE TAKEN BY THE PUBLIC WORKS DEPARTMENT. SERVICE WILL NOT BE AVAILABLE UNTIL THE TESTS ARE RETURNED SATISFACTORY.
- WATER MAINS SHALL BE CLASS 52 DUCTILE IRON PIPE.
- ALL FITTINGS AND MATERIALS REMOVED FROM EXISTING MAINS SHALL BE RETURNED TO THE UTILITIES DEPARTMENT.
- FIRE HYDRANTS SHALL STAND PLUMB, BE SET TO THE ESTABLISHED GRADE WITH THE LOWEST OUTLET OF THE HYDRANT NO LESS THAN EIGHTEEN INCHES ABOVE GRADE.
- ALL WET TAPS SHALL BE DONE BY AN APPROVED PRIVATE CONTRACTOR.
- ALL GATE VALVES SHALL BE RESILIENT SEATED.
- NO CONNECTION TO THE EXISTING MAINS WILL BE ALLOWED EXCEPT BY MEANS OF AN APPROVED BACKFLOW PREVENTION DEVICE PRIOR TO SATISFACTORY FLUSHING, TESTING, DISINFECTION, AND RECEIPT OF SATISFACTORY BACTERIOLOGICAL TEST RESULTS.
- MAXIMUM DEPTH OF THE WATERLINE SHALL BE 5 FEET.

LEGEND			ABBREVIATIONS	
DESCRIPTION	EXISTING	PROPOSED	ABN	ABANDONED
PROPERTY LINE	---	---	MIN	MINIMUM
ADJACENT PROPERTY LINE	---	---	BLDG	BUILDING
CENTERLINE	---	---	BOW	BOTTOM OF WALL
CLEARING LIMITS	---	---	CL	CENTERLINE
SILT FENCE	X --- X	X --- X	CB	CATCH BASIN
CONTOUR LINE	--- 100 ---	--- 100 ---	COMP	CORRUGATED METAL PIPE
FENCE	---	---	CO	CLEANOUT
SANITARY SEWER LINE	--- SS ---	--- SS ---	CONC	CONCRETE
MANHOLE	⊙	⊙	CONST	CONSTRUCTION
STORM DRAIN MAIN	--- SD ---	--- SD ---	CP	CONCRETE PIPE
STORM DRAIN PIPE	---	---	CU YD	CUBIC YARD
ROOF DRAIN	---	---	DDCA	DOUBLE DETECTOR CHECK VALVE ASSEMBLY
FOOTING DRAIN	---	---	DI	DUCTILE IRON PIPE
PRESSURE LINE	---	---	DIA	DIAMETER
CATCH BASIN (TYPE 1)	⊙	⊙	DIP	DUCTILE IRON PIPE
CATCH BASIN (TYPE 2)	⊙	⊙	EAP	EACH
CLEANOUT	○	○	EJ	EXPANSION JOINT
CLEANOUT AND WYE	⊙	⊙	ELEV	ELEVATION
GRADE BREAK	---	---	EOP	EDGE OF PAVEMENT
SURFACE SWALE	---	---	EX	EXISTING
DRAINAGE ARROW	---	---	FDC	FIRE DEPT. CONNECTION
WATER LINE	---	---	FFE	FINISHED FLOOR ELEVATION
WATER METER	⊙	⊙	FH	FIRE HYDRANT
FIRE HYDRANT	⊙	⊙	FL	FLANGE
FDC	⊙	⊙	FT	FEET/FOOT
PIV	○	○	GV	GATE VALVE
GATE VALVE	X	X	HP	HIGH POINT
TEE	⊥	⊥	HT	HEIGHT
90° BEND	└	└	ID	INSIDE DIAMETER
THRUST BLOCKING	△	△	IE	INVERT ELEVATION
CAP	⊥	⊥	L	LENGTH/LINE
CONCRETE PAVEMENT	---	---	LCPE	LINED CORRUGATED POLYETHYLENE PIPE
ASPHALT PAVEMENT	---	---	LF	LINEAL FOOT
CRUSHED SURFACING	---	---	LP	LOW POINT
ROCKERY	---	---	LT	LEFT
SPOT ELEVATION	20.0	20.0	MAX	MAXIMUM
TELEPHONE LINE	---	---	MECH	MECHANICAL
POWER LINE	---	---	MH	MANHOLE
GAS LINE	---	---		
SIGN	---	---		

ENGINEERING
250 4TH AVE. S., SUITE 200
EDMONDS, WASHINGTON 98020
PHONE (425) 778-8500
FAX (425) 778-5536



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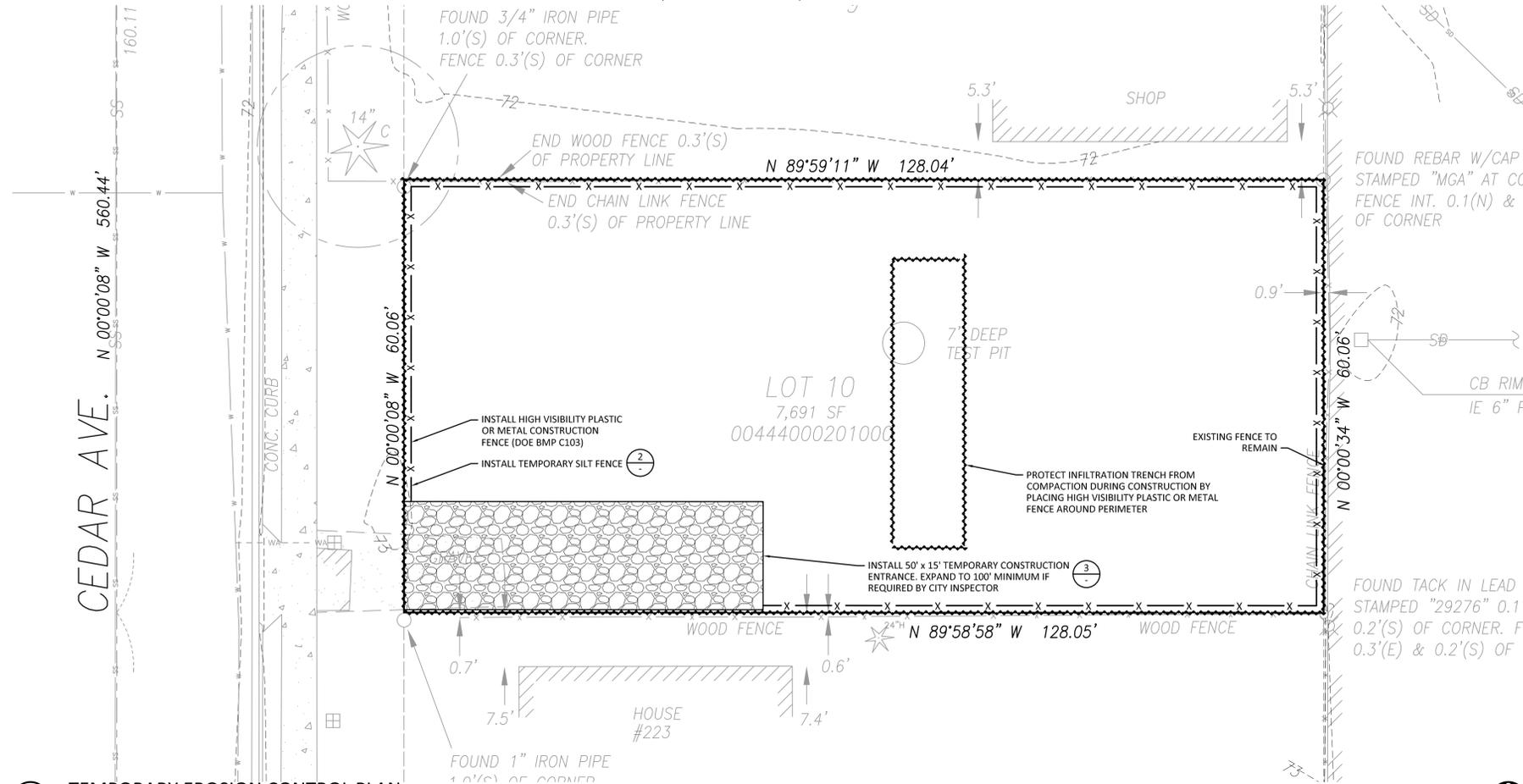
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CHECK: JPU
JOB NO: 20043.24
DATE: 07/07/2020

CEDAR URBAN TOWNHOMES
225 CEDAR AVE.
SNOHOMISH, WA 98290
COVER SHEET AND
GENERAL NOTES

SHEET:



C1.1

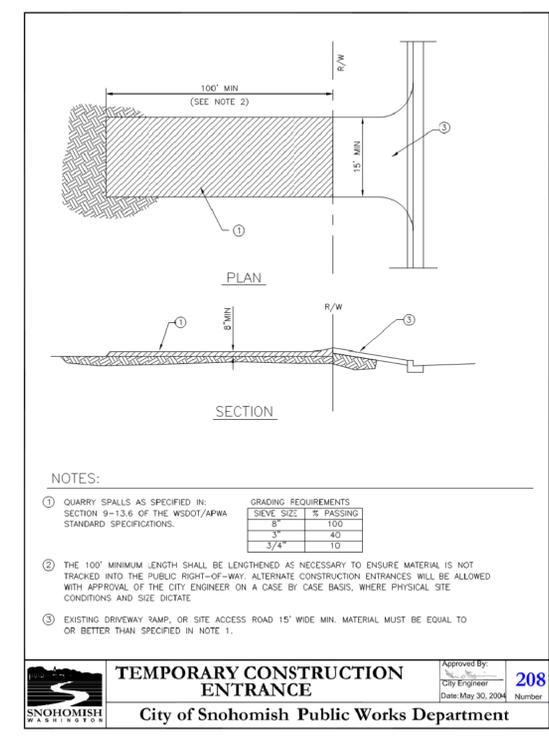


1 TEMPORARY EROSION CONTROL PLAN

SCALE: 1" = 10'
 TEMPORARY EROSION CONTROL PLAN NOTES:

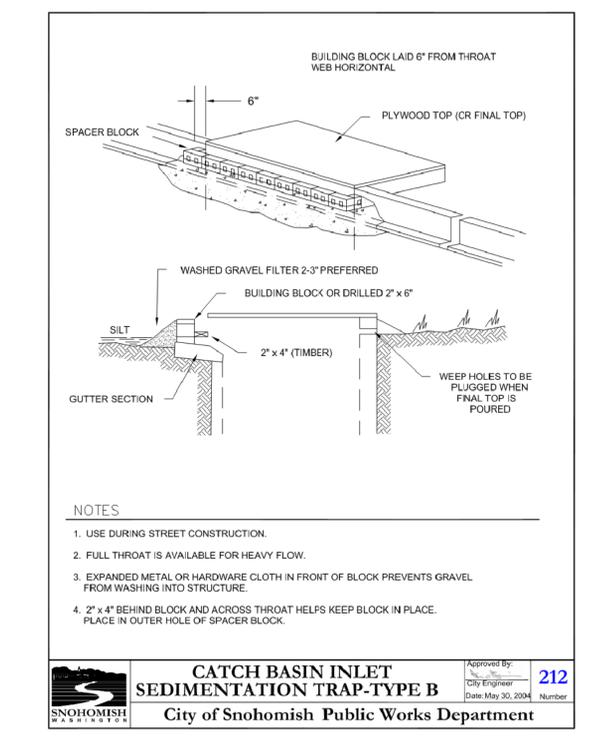
- BEFORE BEGINNING LAND-DISTURBING ACTIVITIES, INCLUDING CLEARING AND GRADING, CLEARLY MARK ALL CLEARING LIMITS.
- ALL DISTURBED LANDSCAPED AREAS ON AND OFF-SITE SHALL BE COMPOST-AMENDED PER THE REQUIREMENTS OF BMP T5.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 5.
- SOILS MUST BE STABILIZED AT THE END OF THE SHIFT BEFORE A HOLIDAY OR WEEKEND IF NEEDED BASED ON THE WEATHER FORECAST.
- CONCRETE TRUCKS MUST NOT BE WASHED OUT ONTO THE GROUND, OR INTO STORM DRAINS, OPEN DITCHES, STREETS, OR STREAMS. EXCESS CONCRETE MUST NOT BE DUMPED ON-SITE.
- INSTALL CATCH BASIN INLET PROTECTION PER DETAIL 4 FOR ANY EXISTING INLETS ON-SITE AND WITHIN 100' DOWNSTREAM OF CONSTRUCTION SITE IN ROW AND AS PROPOSED DRAINAGE STRUCTURES ARE INSTALLED.
- ADDITIONAL BMPs MAY BE REQUIRED DURING CONSTRUCTION.

3 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS

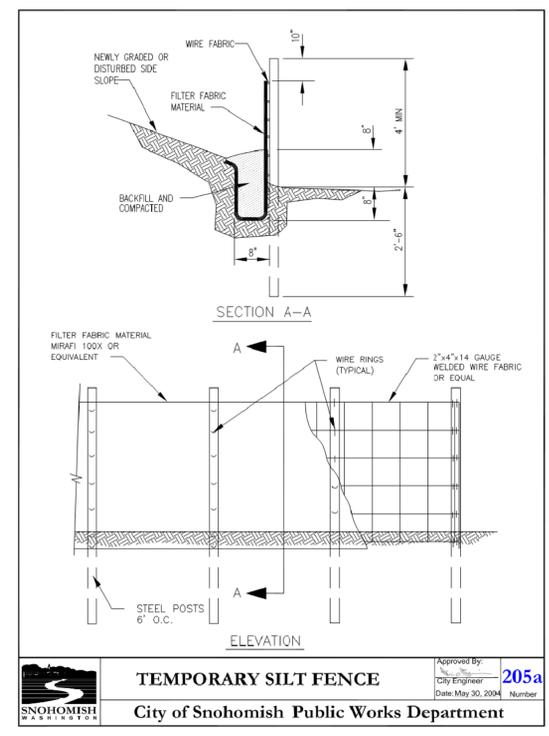


3 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS

2 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS



4 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS



2 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS

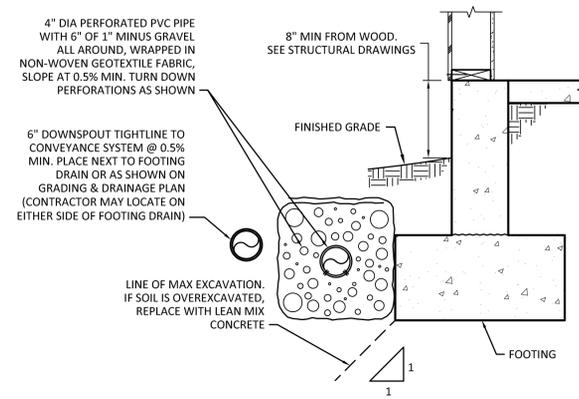
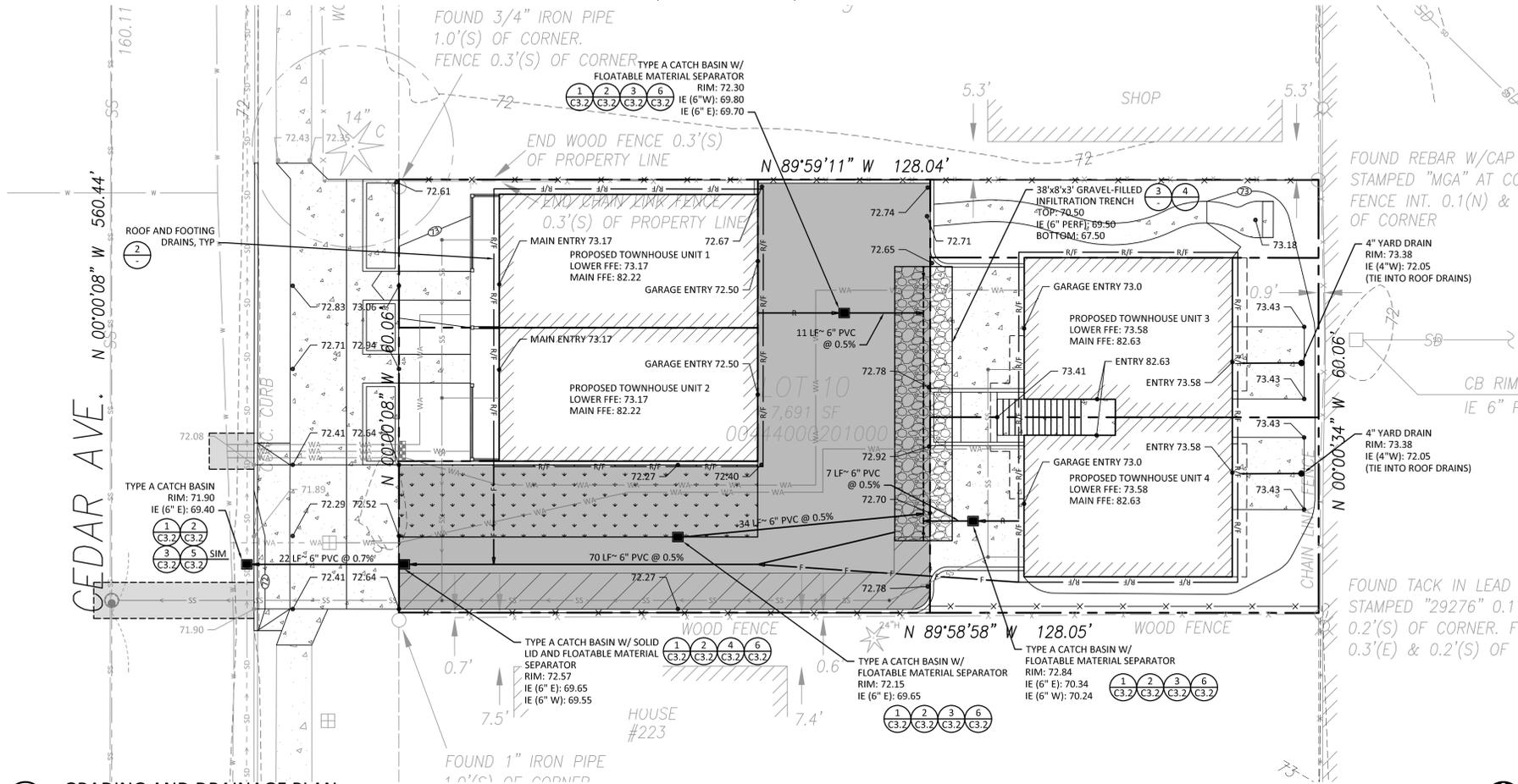


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CEDAR URBAN TOWNHOMES
 225 CEDAR AVE.
 SNOHOMISH, WA 98290
 TEMPORARY EROSION CONTROL
 PLAN AND DETAILS

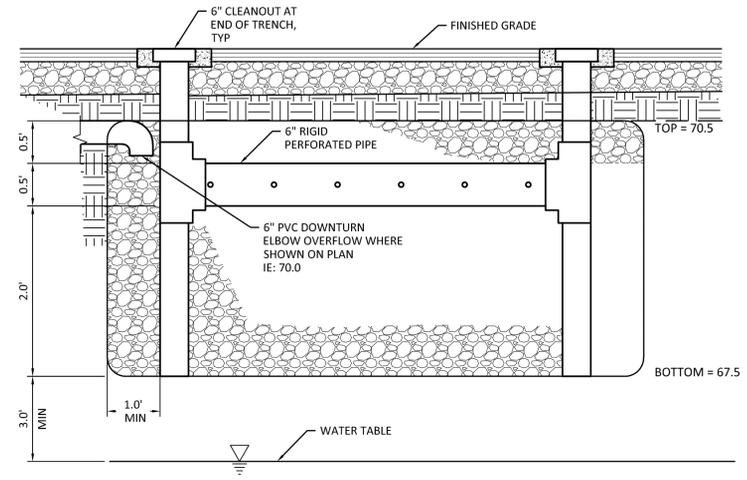
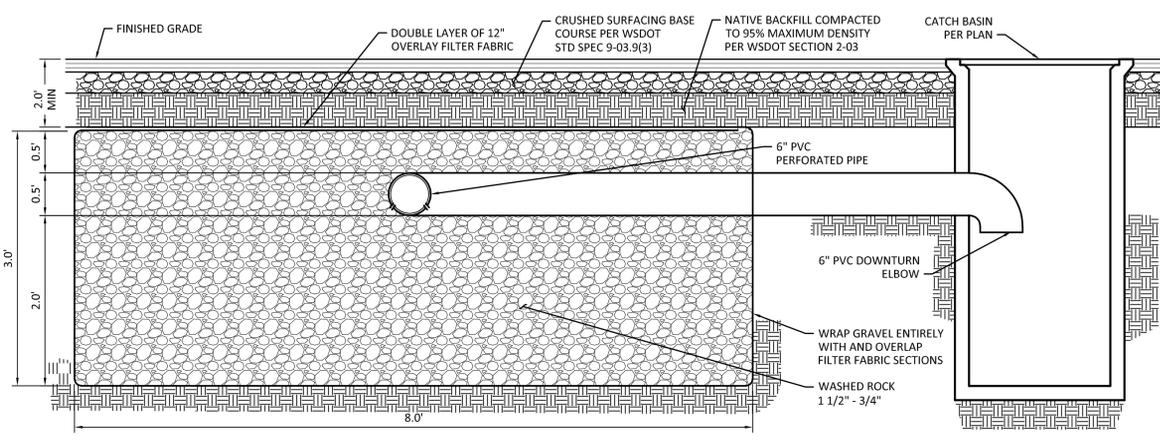
SHEET:
C2.1



1 GRADING AND DRAINAGE PLAN
 SCALE: 1" = 10'

2 FOOTING AND ROOF DRAIN SECTION
 SCALE: NTS

- GRADING AND DRAINAGE PLAN NOTES:**
- SOILS REPORT
 REPORT NUMBER: 1161020
 PREPARED BY: NELSON GEOTECHNICAL ASSOCIATES
 DATED: MARCH 10, 2020
 - ALL DISTURBED AREAS ON AND OFF-SITE SHALL BE COMPOST-AMENDED PER THE REQUIREMENTS OF BMP 15.13 IN THE STORMWATER MANUAL VOLUME V, CHAPTER 5.
 - A MINIMUM OF 3' SEPARATION AND 1' VERTICAL SEPARATION IS REQUIRED BETWEEN THE DRY UTILITIES (POWER, GAS, PHONE, CABLE, ETC.) AND SEWER, WATER, AND STORM AND A MINIMUM OF 5' HORIZONTAL SEPARATION AND 1' VERTICAL SEPARATION FROM ANY CITY-OWNED LINES.
 - A TYPE II CATCH BASIN IS REQUIRED WHENEVER RIM TO INVERT EXCEEDS 5'.
 - A MINIMUM OF 2' OF COVER IS REQUIRED FOR ALL PIPES LOCATED UNDER DRIVEABLE SURFACES AND 1' OF COVER UNDER LANDSCAPE SURFACES.
 - EXISTING STORM MAIN LOCATION IN CEDAR AVE IS APPROXIMATE. CONTRACTOR SHALL POTHOLE THE MAIN TO VERIFY LOCATION, DEPTH, MATERIAL AND SIZE.
 - NEW/REPLACED IMPERVIOUS SURFACE (INCLUDING ROW): 7,327 SF
 BUILDING (ROOF AREA): 2,907 SF
 CONCRETE SIDEWALK/WALKWAYS: 1,487 SF
 ASPHALT DRIVEWAY: 2,433 SF
 GRASSCRETE: 500 SF



3 INFILTRATION TRENCH SECTION
 SCALE: NTS

4 INFILTRATION TRENCH
 SCALE: NTS

GRADING QUANTITIES	
TOTAL EXCAVATION (CUT) -	10.0 CU YDS TOTAL
EMBANKMENT (FILL) -	70.0 CU YDS
TOTAL	80.0 CU YDS

THE QUANTITIES SHOWN ABOVE ARE FOR THE PERMIT PROCESS ONLY. THESE VALUES ARE APPROXIMATE. DO NOT USE FOR BIDDING, PAYMENT, OR ESTIMATING PURPOSES.

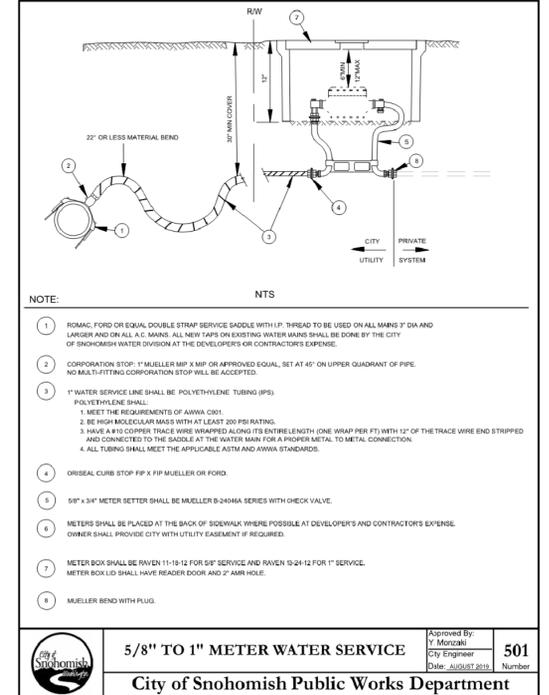
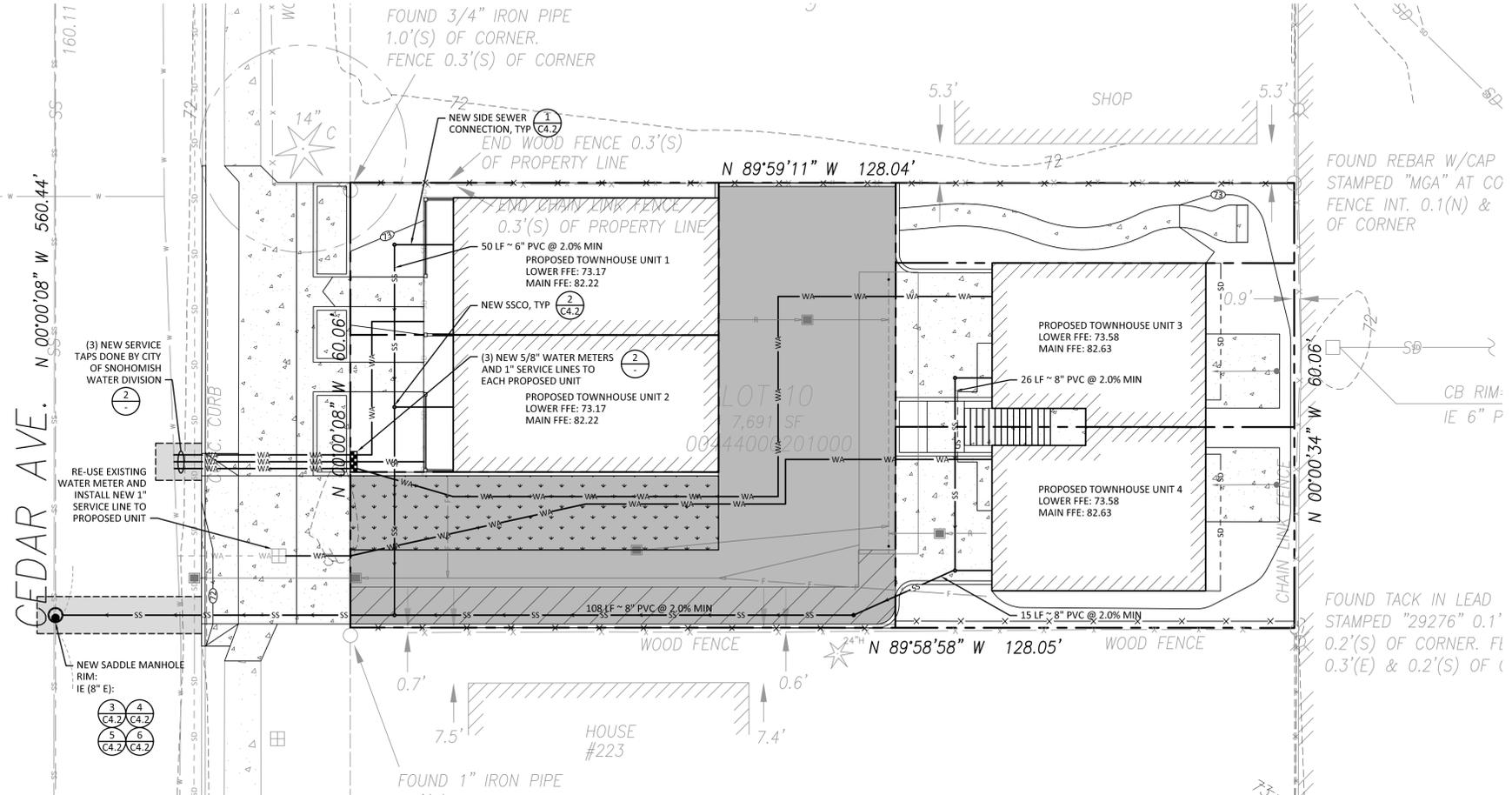
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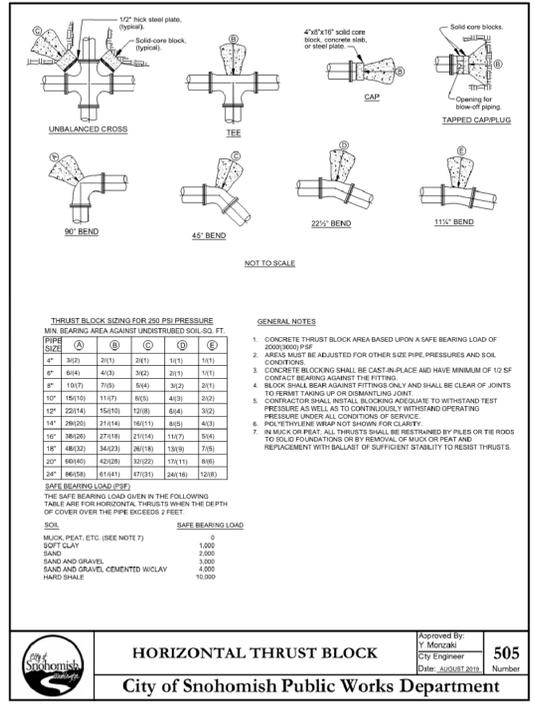
**GRADING AND DRAINAGE
 PLAN AND DETAILS**

SHEET:

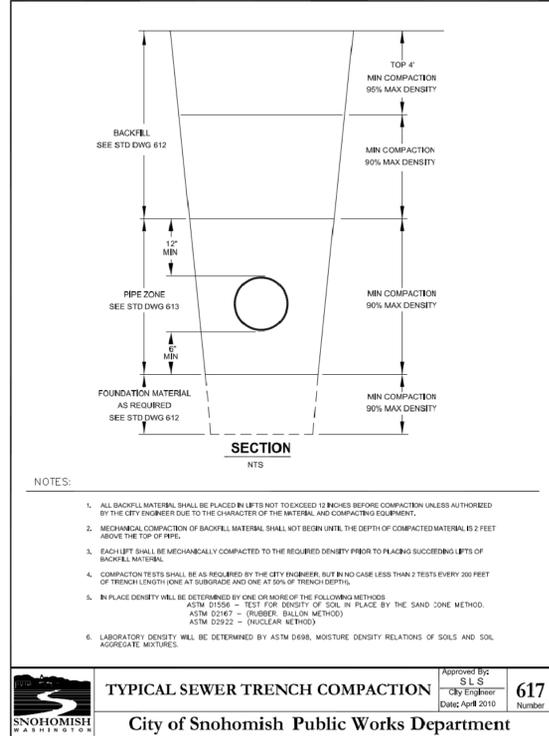


1 WATER AND SEWER PLAN
SCALE: 1" = 10'

- WATER AND SEWER PLAN NOTES:**
- CITY TO VERIFY METER & SERVICE SIZE.
 - ALL THRUST BLOCKING PER DETAIL 3 OF THIS SHEET.
 - SEWER TRENCHING, BEDDING AND SEWER TRENCH COMPACTION PER DETAILS 7/C4.2, 8/C4.2 AND 4/C4.1, RESPECTIVELY.
 - CITY WILL TV SEWER MAIN PRIOR TO FINAL ACCEPTANCE.
 - A MINIMUM OF 3' HORIZONTAL SEPARATION AND 1' VERTICAL SEPARATION IS REQUIRED BETWEEN DRY UTILITIES (POWER, GAS, PHONE, CABLE, ETC.) AND SEWER, WATER AND STORM, AND A MINIMUM OF 5' HORIZONTAL SEPARATION AND 1' VERTICAL SEPARATION FROM ANY CITY-OWNED LINES.



3 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS



4 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS



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CEDAR URBAN TOWNHOMES
225 CEDAR AVE.
SNOHOMISH, WA 98290
WATER AND SEWER
PLAN AND DETAILS

NOTES

- SEWER CONNECTIONS TO NEW MAINS SHALL BE FACTORY TIEES.
- TYPE BAC SHALL BE USED ONLY WHEN MAIN DEPTH EXCEEDS 15 FEET OR AS APPROVED BY THE CITY ENGINEER.
- APPROVED COUPLING SHALL BE FERROD OR APPROVED EQUAL.
- SEWER SHALL BE EXTENDED TO BEYOND THE PROPERTY LINE TO PREVENT DAMAGE TO THE CLEAN OUT AND TO MINIMIZE CONFLICTS WITH OTHER UTILITIES WHEN SERVICE IS CONNECTED.
- SEWER SHALL BE MARKED PER SECTION 610 OF THESE STANDARD.

TYPE "A"
NTS

TYPE "B"
NTS

TYPE "C"
NTS

TYPICAL SIDE SEWER CONNECTIONS
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 601

1 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- CLEAN-OUT PIPE AND FITTINGS SHALL BE PVC.
- FOR NEW PLATS THE VERTICAL RISER PORTION OF THE CLEAN-OUT WILL BE CONSTRUCTED AT TIME OF CONNECTION TO BUILDING TO MINIMIZE DAMAGE, THE 6" WYE AND 6" PVC PIPE W/GASKETED CAPS WILL BE INSTALLED PRIOR TO BUILDING CONNECTION.
- A 2"x4" STUB MARKER SHALL EXTEND DOWN TO A MINIMUM OF 24" BELOW GROUND, A MIN OF 36" SHALL EXTEND ABOVE GROUND.
- THE STUB MARKER SHALL BE PAINTED WITH WHITE TRAFFIC PAINT AND THE WORD "SEWER" AND THE DEPTH IN FEET FROM GROUND TO SEWER STUB INVERT SHALL BE PAINTED ON THE MARKER WITH 3" HIGH BLACK PAINTED LETTERS.

SEWER CLEAN OUT
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 602

2 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- MINIMUM DROP IN THE INVERT ELEVATION THROUGH THE MANHOLE SHALL BE 0.1'. MAXIMUM DROP IN THE INVERT ELEVATION THROUGH THE MANHOLE SHALL BE 0.2'.
- MARKER POSTS MAY BE REQUIRED IN EASEMENTS.

SADDLE MANHOLE - 48" to 54"
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 605

3 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- STEPS SHALL BE REINFORCED COPOLYMER PROPYLENE PLASTIC CONFORMING TO:
 - (A) ASTM C 478 AND AASHTO M 199. HORIZONTAL LOAD SHALL BE 1500 LBS.
 - (B) ASTM A 615 GRADE 60 (DEFORMED) REINFORCING STEEL BARS.
 - (C) POLYPROPYLENE CONFORMS TO D-14101.
- MANHOLE STEPS SHALL HAVE MOLDED SAFETY HAND GRIP. RED REFLECTORS ARE REQUIRED.
- ALL FABRICATION DIMENSIONS INDICATED ARE MINIMUM.
- THE ENTIRE POLYPROPYLENE PLASTIC MATERIAL SURROUNDING THE REINFORCING STEEL BAR SHALL BE CAST MONOLITHICALLY. MINIMUM COVER SHALL BE 1/2" INCH.
- STEPS SHALL BE AT A MINIMUM OF 12 INCHES.
- STEPS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S RECOMMENDED PROCEDURE.

POLYPROPYLENE LADDER
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 609

4 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- STEPS SHALL BE REINFORCED COPOLYMER PROPYLENE PLASTIC CONFORMING TO:
 - (A) ASTM C 478 AND AASHTO M 199. HORIZONTAL LOAD SHALL BE 1500 LBS.
 - (B) ASTM A 615 GRADE 60 (DEFORMED) REINFORCING STEEL BARS.
 - (C) POLYPROPYLENE CONFORMS TO D-14101.
- MANHOLE STEPS SHALL HAVE MOLDED SAFETY HAND GRIP. RED REFLECTORS ARE REQUIRED.
- ALL FABRICATION DIMENSIONS INDICATED ARE MINIMUM.
- THE ENTIRE POLYPROPYLENE PLASTIC MATERIAL SURROUNDING THE REINFORCING STEEL BAR SHALL BE CAST MONOLITHICALLY. MINIMUM COVER SHALL BE 1/2" INCH.
- STEPS SHALL BE SPACED AT A MINIMUM OF 12 INCHES.
- STEPS SHALL BE INSTALLED IN ACCORDANCE WITH THE APPROVED MANUFACTURER'S RECOMMENDED PROCEDURE.

POLYPROPYLENE PLASTIC STEP
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 610

5 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- MANHOLE RINGS SHALL BE CAST IRON CONFORMING TO THE REQUIREMENTS OF AASHTO M 195, GRADE 306.
- MANHOLE COVER TO BE DUCTILE IRON CONFORMING TO ASTM A 536, GR 60-30-06 - EAST JORDAN IRON WORKS.
- LOCKING COVER SHALL BE USED IN ALL LOCATIONS, THE LID SHALL BE LOCKED DOWN WITH 3/8" S.S. SOCKET HEAD CAP SCREWS.
- RING AND COVER SHALL BE TESTED FOR ACCURACY OF FIT AND SHALL BE MARKED IN SETS FOR DELIVERY.
- ALL CASTINGS TO HAVE A BITUMINOUS COATING.

MANHOLE RING AND COVER
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 612

6 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

NOTES

- MINIMUM WIDTH OF TRENCH, FOR PIPES 12" OR LESS IN DIA. W = 40". FOR PIPES 16" OR GREATER, W = 4+1/2 DIA. + 16".
- ALTERNATE LAD BACK TRENCH TO MEET LOCAL REQUIREMENTS NO SLOPE STEEPER THAN 1:3 EXCEPT FOR ROCK.
- NATIVE MATERIAL IF ALLOWED IN ADVANCE BY THE CITY ENGINEER, OR IMPORTED GRAVEL BORROW AS DIRECTED SHALL COMPACT TO 90% MAXIMUM DENSITY EXCEPT FROM SUBGRADE DOWN 4' WHICH SHALL BE CSTC.
- CLASS A FOUNDATION GRAVEL, IF REQUIRED BY THE CITY ENGINEER TO REPLACE UNSUITABLE MATERIAL.
- FOR ADDITIONAL COMPACTION INFORMATION SEE STANDARD PLAN 617.
- THE TOP 4" OF BACKFILL SHALL BE CSTC, THE CONTRACTOR HAS THE OPTION TO FILL THE ENTIRE EXCAVATION TO SUBGRADE WITH CSTC. MINIMUM COMPACTION 90% MAXIMUM DENSITY.
- SEE CITY OF SNOHOMISH STANDARD PLAN 316 FOR PAVEMENT PATCH DETAILS.
- VERTICAL TRENCH WALLS WITH SHORING SHALL CONFORM TO O.S.L.A. REGULATIONS.
- SUBGRADE OR GROUND SURFACE IN NONPAVED AREAS.
- EXCAVATED NATIVE MATERIAL OR APPROVED STOCKPILE BACKFILL MATERIAL.

TYPICAL SEWER TRENCH SECTION
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 615

7 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

LIMITS OF TRENCH:

- W = MAXIMUM WIDTH OF TRENCH FOR PIPES 12" OR LESS IN DIA. W = 40". FOR PIPES 16" OR GREATER, W = 4+1/2 DIA. + 16"

BEDDING AND FOUNDATION MATERIALS:

- BEDDING MATERIAL SHALL BE PEA GRAVEL CONFORMING TO SECTION 401.2 (2) OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION WISDOT/APWA.
- FOUNDATION MATERIAL, IF REQUIRED, SHALL BE FOUNDATION MATERIAL CLASS A CONFORMING TO SECTION 401.11 OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION WISDOT/APWA.

PROCEDURE FOR COMPACTION:

- PROVIDE UNIFORM SUPPORT UNDER PIPE BARREL.
- COMPACT BEDDING MATERIAL TO 90% MAXIMUM DENSITY EXCEPT DIRECTLY OVER PIPE, HAND TAMP ONLY.
- HAND TAMP UNDER HAUNCHES.
- FOR ADDITIONAL COMPACTION INFORMATION SEE STANDARD PLAN 617.

BEDDING FOR SEWER PIPE IN TRENCHES
City of Snohomish Public Works Department

Approved By: S.L.S. City Engineer Date: April 2010
Number: 616

8 CITY OF SNOHOMISH STANDARD DETAIL
SCALE: NTS

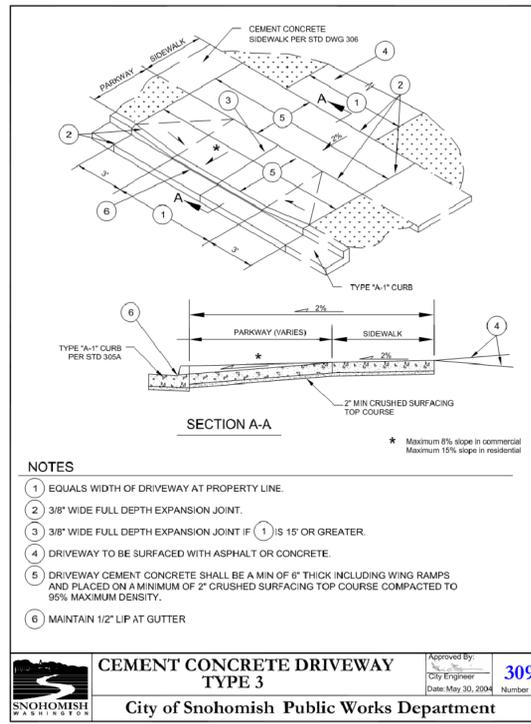


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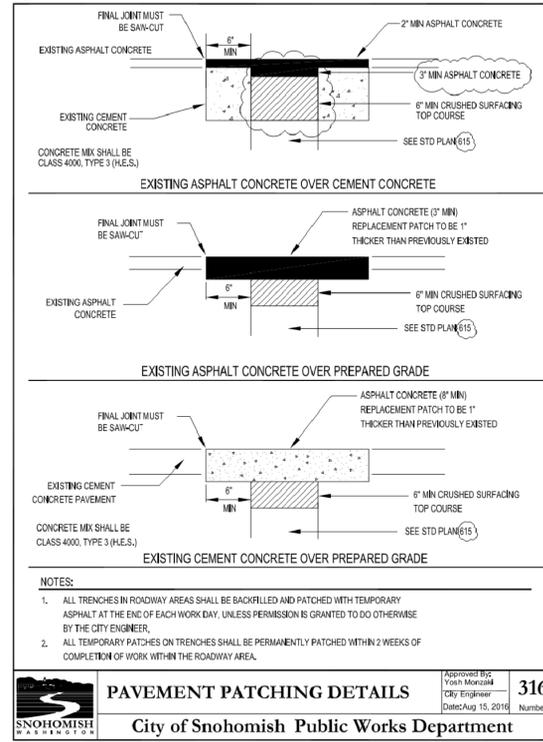
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DATE:	07/07/2020

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225 CEDAR AVE.
SNOHOMISH, WA 98290

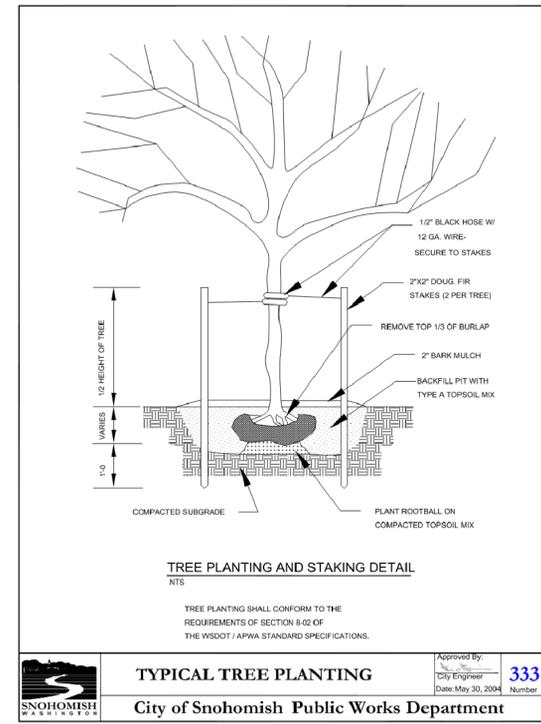
SEWER DETAILS



1 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS



2 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS



3 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

	Arrow board		Shadow vehicle
	Arrow board support or trailer (shown facing down)		Sign (shown facing left)
	Changeable message sign or support trailer		Surveyor
	Channelizing device		Temporary barrier
	Crash cushion		Temporary barrier with warning light
	Direction of temporary traffic detour		Traffic or pedestrian signal
	Direction of traffic		Truck-mounted attenuator
	Flagger		Type 3 barricade
	High-level warning device (flag tree)		Warning light
	Longitudinal channelizing device		Work space
	Luminaire		Work vehicle
	Pavement markings that should be removed for a long-term project		

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)**	100 feet	100 feet	100 feet
Urban (high speed)**	350 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

** Speed category to be determined by highway agency.
 ** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-6. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{W \cdot S^2}{60}$
45 mph or more	$L = \frac{W \cdot S^2}{75}$

Where: L = taper length in feet
 W = width of offset in feet
 S = posted speed limit, or off-peak 85th percentile speed prior to work starting, or the anticipated operating speed in mph.

4 CITY OF SNOHOMISH STANDARD DETAIL
 SCALE: NTS

