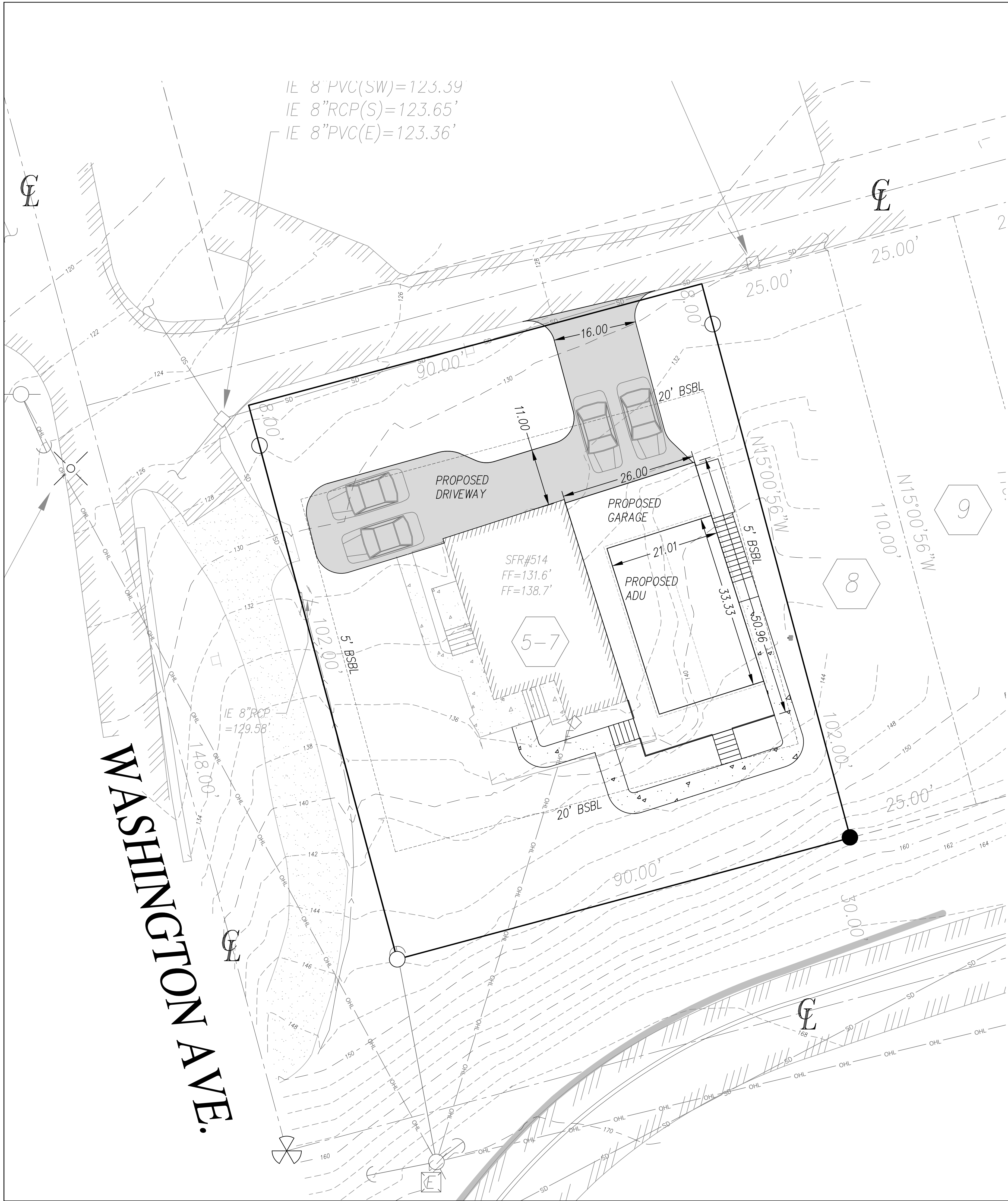
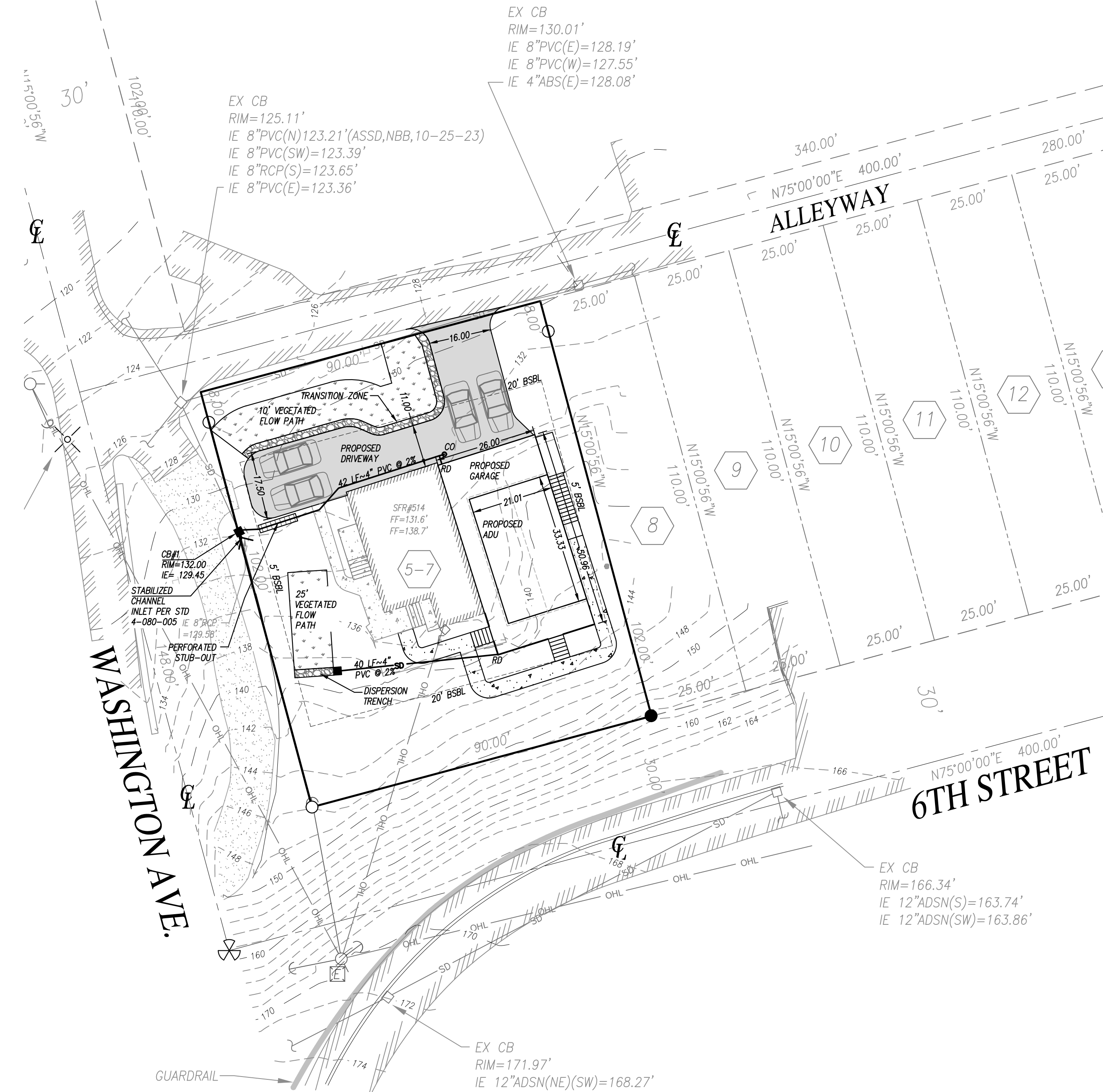


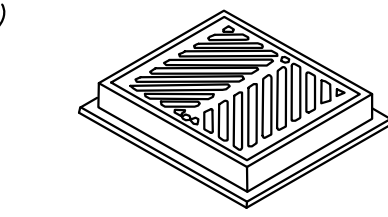




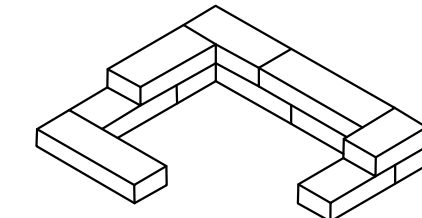
NOTES :

1. CATCHBASINS TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 199) & ASTM C 880 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE WSDOT / APWA SPECIFICATIONS.
2. REINFORCING SHALL BE EQUIVALENT TO WELDED WIRE FABRIC HAVING A MINIMUM AREA OF 0.12 SQUARE INCHES PER FOOT. WELDED WIRE FABRIC SHALL COMPLY TO ASTM A 497 (AASHTO M221). WIRE FABRIC SHALL NOT BE PLACED IN THE KNOCKOUTS.
3. THE BOTTOM OF THE PRECAST BASE SECTION MAY BE ROUNDED.
4. PRECAST BASES SHALL BE FURNISHED WITH CUTOUTS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM.
5. KNOCKOUTS MAY BE ON ALL 4 SIDES WITH MAXIMUM DIAMETER OF 20". KNOCKOUTS MAY BE EITHER ROUND OR 90° SHARPED. PIPE TO BE INSTALLED IN FACTORY SUPPLIED KNOCKOUTS.
6. KNOCKOUT OR CUTOUT HOLE SIZE IS EQUAL TO PIPE OUTER DIAMETER PLUS CONCRETE INLET WALL THICKNESS.
7. THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION AND RISER SECTION SHALL NOT EXCEED 1/2" PER FT.
8. CONCRETE INLET FRAME AND GRATE SHALL BE IN ACCORDANCE WITH THE WSDOT / APWA SPECIFICATIONS AND MEET THE STRENGTH REQUIREMENTS OF FEDERAL SPECIFICATION RR-F-621D. MATING SURFACES SHALL BE FINISHED TO ASSURE NON-ROCKING FIT.
9. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO RISER.

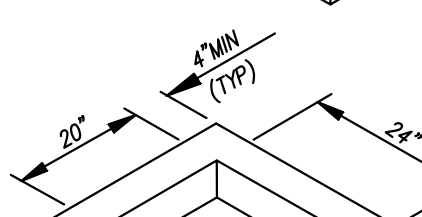
SEE TEXT SECTION 5-06
WSDOT / APWA PLAN 1-A



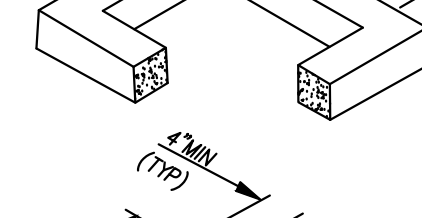
LOOKING FRAME AND GRATE (SEE
STD DWG 5-180 FOR DETAILS)



2"x4"x8" SOLID BRICK USED
FOR FINAL ADJUSTMENT TO
GRADE. 6" HIGH MAX.

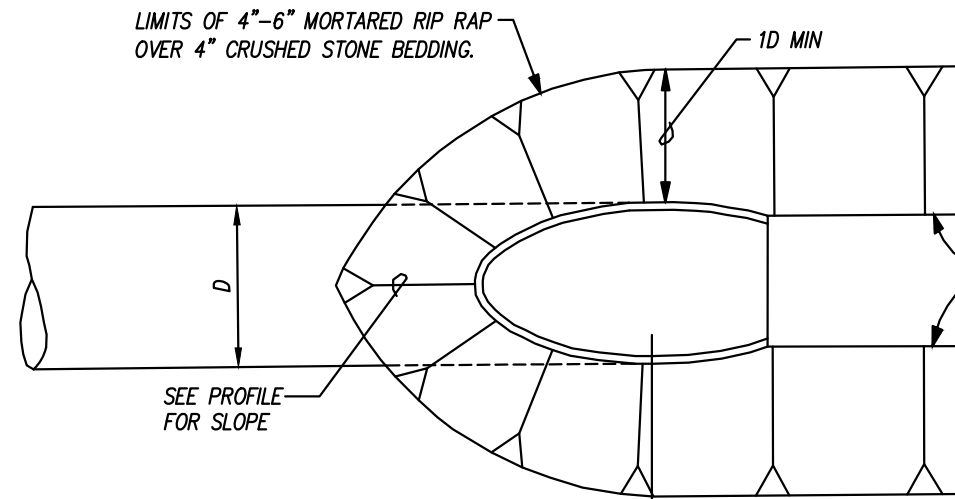


6" OR 12" CONCRETE RISER
SECTION CLASS 4000
CONCRETE

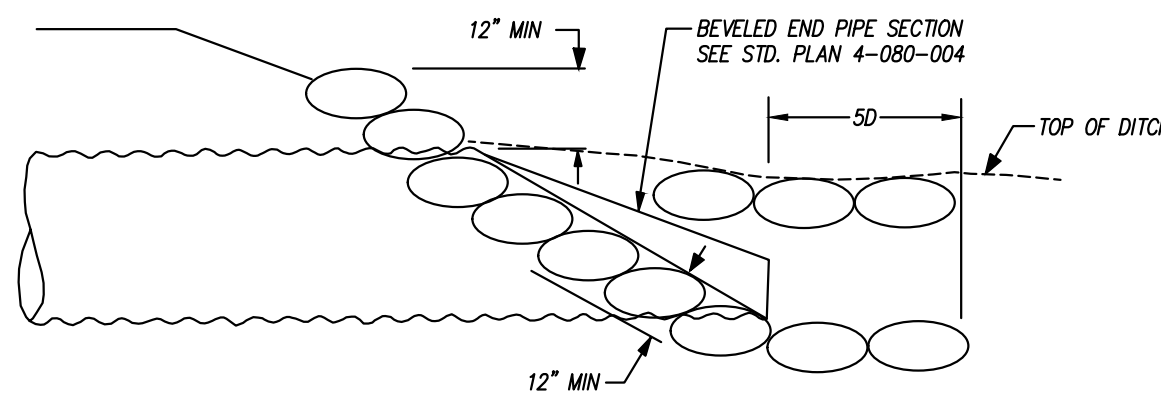


PRECAST BASE SECTION
(MEASUREMENT AT THE TOP OF
THE BASE)

CATCH BASIN TYPE 1 DETAIL
N.T.S.

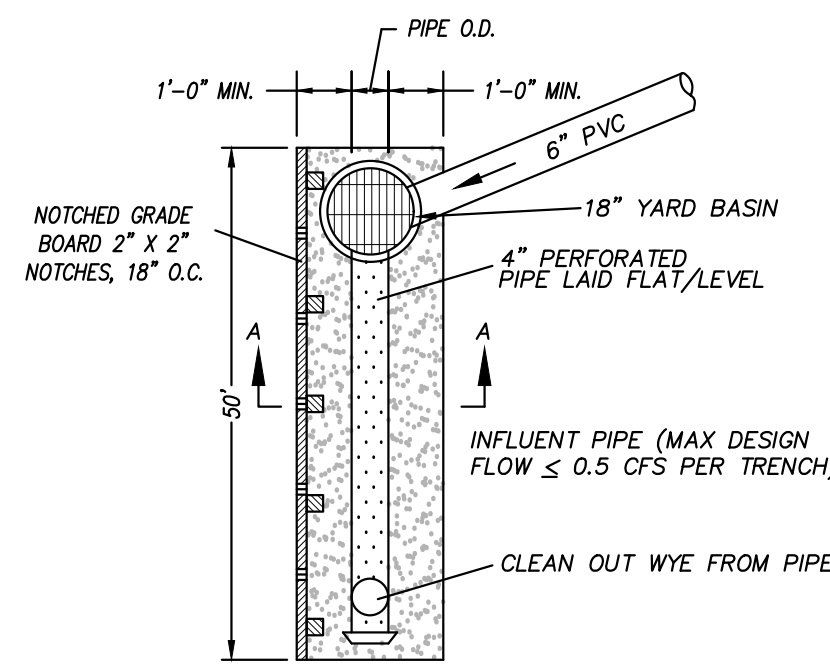


PLAN

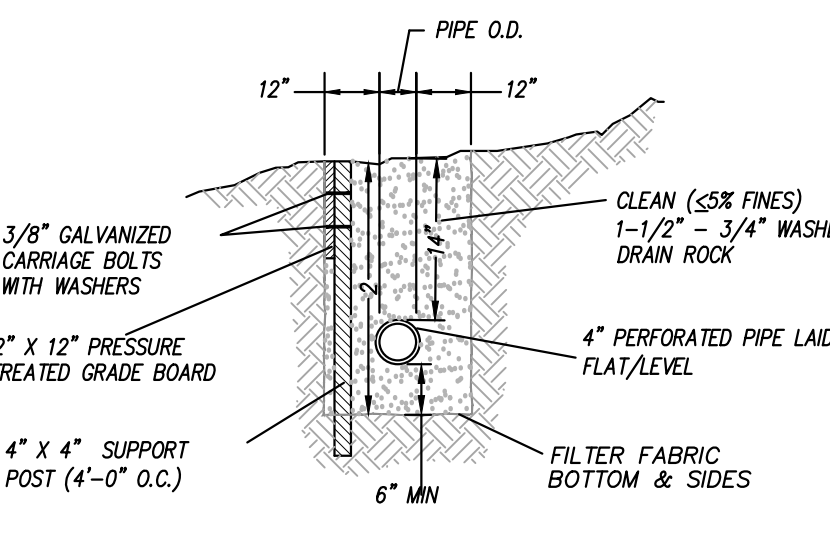


PROFILE

CITY OF MUKILTEO STD PLAN 4-080-005
N.T.S.

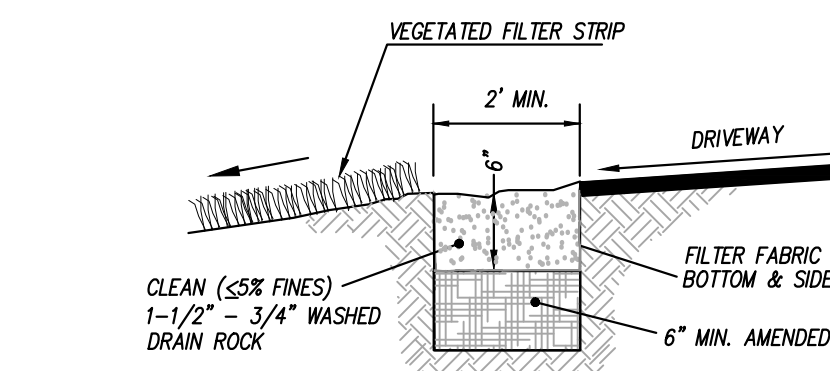


PLAN VIEW



SECTION A-A

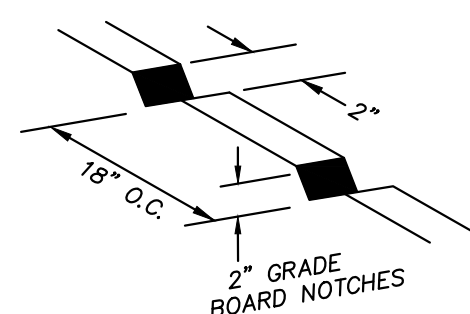
DISPERSION TRENCH
N.T.S.



TRANSITION ZONE DETAIL
N.T.S.

LEGAL DESCRIPTION:

LOTS 5, 6 & 7, PLAT OF ODGENS PLAT OF MUKILTEO, ACCORDING TO THE PLAT THEREOF
RECORDED IN VOLUME 2 OF PLATS, PAGE 62, RECORDS OF SNOHOMISH COUNTY, WASHINGTON.
SUBJECT TO ALL EASEMENTS, RESTRICTIONS AND RESERVATIONS.
SITUATE IN THE COUNTY OF SNOHOMISH, STATE OF WASHINGTON.



NOTES

1. THIS TRENCH SHALL BE CONSTRUCTED SO AS TO PREVENT POINT DISCHARGE AND/OR EROSION.
2. TRENCH AND GRADE BOARD MUST BE LEVEL. ALIGN TO FOLLOW CONTOURS OF SITE.
3. SUPPORT POST SPACING AS REQUIRED BY SOIL CONDITIONS TO ENSURE GRADE BOARD REMAINS LEVEL.
4. ALL CUT ENDS AND SURFACES OF WOOD SHALL BE TREATED.

PROPERTY INFORMATION:

OWNER: SAFFOLD, HANK
SITE ADDRESS: 514 WASHINGTON AVE,
MUKILTEO, WA 98275
TAX ID: 0053470000500
LOT SIZE: 9,900 SF (0.23 ACRES)

TAX ACCOUNT NO(S):

0053470000500
514 WASHINGTON AVE,
MUKILTEO, WA 98275
MUKILTEO, WA 98275

APPROVED FOR CONSTRUCTION
CITY OF MUKILTEO

DATE: _____

BY: _____

CITY ENGINEERING DIVISION

STORM DRAINAGE NOTES:

1. Prior to any site work including drainage, the contractor shall contact the City of Mukilteo Community Development at 425-263-8000 to schedule a pre-construction conference.
2. All pipe shall be placed on stable earth. If in the opinion of the City inspector, the existing trench foundation is unsatisfactory, then it shall be excavated below grade and backfilled with gravel bedding to support the pipe.
3. Backfill shall be placed equally on both sides of the pipe or pipe-arch in 6" average depth loose lifts. Maximum lift depth shall not exceed 8". Each lift shall be thoroughly compacted. Compacted lifts must extend at least one pipe diameter on each side of the pipe or to the side of the trench. Backfill over the pipe shall be performed in accordance with Sections 7-04.3(3) and 2-03.2(14)(C) - Method B and C of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction.
4. All grates located in the gutter flow line (inlet and catch basin) shall be depressed 0.1 feet below pavement level.
5. All catch basins are to be Type I unless otherwise approved by the City engineer or designated representative. The use and installation of inlets is not encouraged.
6. The contractor shall be responsible for adjusting all manhole, inlet and catch basin frames and grates to grade just prior to curb installation and/or paving.
7. All catch basins with a depth of 5 feet or greater to the flow line shall be Type II catch basins.
8. Vented grates are required on all storm structures. All catch basins and manholes shall have locking lids. Rolled grates are not approved for use.
9. Polypropylene safety steps and ladder steps shall be provided in all manholes and shall be positioned correctly with the bolt areas on the rim.
10. Catch basin frames and grates shall be Olympic Foundry Model SM60, SM52, or SM44, locking type or equivalent. Model SM52 shall be referred to as a Through Curb Inlet on the plans.
11. Detention ponds with side slopes steeper than 3:1 or with a maximum water depth greater than 3 feet shall require a powder or vinyl coated chain link perimeter fence per standard plans 3-501-007 & 008. Side slope overlying shall not be allowed. All inlet and outfall pipes shall have a trash rack installed and a mortared riprap headwall. Refer to storm drainage note 18.
12. Prior to sidewalk construction, lot drainage systems, stub-outs and any behind sidewalk drains must be installed as required. Pipe shall be PVC 3034, or SDR-35. Stubouts shall be marked with a 2" x 4" with 3 feet visible above grade and marked "storm". Locations of these installations shall be shown on the as-built construction plans submitted to the City.
13. Storm water retention/detention facilities, storm drainage pipe and catch basins shall be flushed and cleaned by the developer prior to; City of Mukilteo final acceptance of the project and; upon commencement and completion of the 2 year warranty period for the storm drainage system.
14. Unless otherwise noted, all storm sewer pipe shall be: (CP) non-reinforced concrete, ASTM C-14; (RCP) reinforced concrete for concrete pipe diameters 24" or greater, ASTM C-76; or (CMP) corrugated metal. CMP to be: galvanized steel with Treatment I Mukilteo Development Standards 56 asphalt coating or better; or corrugated aluminum; or AASHTO M274-70 duminized steel. All pipes shall be installed with rubber gaskets as per manufacturer's recommendations. Coverage Requirements for 12" diameter pipe: Backfill over pipe less than 12 inches requires RCP Class IV. Backfill over pipe less than 24" requires RCP minimum. Backfill over pipe greater than 24" requires 16 gage CMP minimum. Corrugated Polyethylene Pipe (CPP).
15. A. All pipe shall be smooth interior. CPP shall be double-walled. All pipe shall meet AASHTO and ASTM specifications.
16. B. Upon request by the City inspector, all pipe runs shall pass the low pressure air test requirements of Section 7-04.3(1) E & F of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction. Pipe runs shall be tested with pipe loaded and compacted to finish grade.
17. C. Upon request by the City inspector, pipe shall be subject to mandrel testing (mandrel size = 90% of nominal pipe diameter). Pipe shall be stored on site in shipping bunks on a flat level surface. This requirement will be strictly enforced, failure to comply may result in rejection of the pipe and/or future restriction on use of material.
18. D. Minimum depth of cover shall be 2 feet.
19. E. Couplings shall be integral bell and spigot or double bell separate couplings. Split couplings will not be allowed.
20. F. Backfill shall comply with Section 7-08.3(3) of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction modified as follows: The second paragraph of Section 7-08.3(3) is deleted and replaced with the following: The material used for backfilling around and to a point 1 foot above the top of the pipe shall be clean earth or sand, free from clay. Any gravel or stones included in the backfill shall pass through a 1 inch sieve.
21. G. All non-perforated metal pipe shall have neoprene gaskets at the joints. O-ring gaskets may be used for type-C coupling band.
22. H. Culvert ends shall be beveled to match side slopes. Field cutting of joint ends is permitted when approved by the City engineer or designated representative.
23. I. All field cut culvert pipe shall be treated as required in the Standard Specifications or General Provisions.

GENERAL NOTES:

1. All work and materials shall be in accordance with current City of Mukilteo Standards and Specifications; the current edition of the Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction; and the adopted edition of the Washington State Department of Ecology Stormwater Management Manual for Western Washington.
2. All work within the plot and City right-of-way shall be subject to the inspection of the City engineer or designated representative.
3. Prior to any site construction including clearing, logging or grading, the site clearing limits shall be located and field identified by the project surveyor (or project engineer) as required by these plans. The project surveyor's name and phone number is WESI - 425-356-2700.
4. The developer, contractor and project engineer is responsible for water quality as determined by the monitoring program established by the project engineer. The project engineer's name and phone number is WESI - 425-356-2700.
5. Prior to any site work, the contractor shall contact the City of Mukilteo Community Development at 425-263-8000 to schedule a preconstruction conference. Engineered as-built drawings in accordance with the current adopted International Building Code shall be required prior to final site approval.
6. The contractor shall be responsible for obtaining all permits for utility, road, and right-of-way construction. The contractor for this project is: _____ Contact person is _____ Phone _____ Mobile phone _____ emergency phone _____
7. The Construction Stormwater Pollution Prevention (SWPP) facilities shall be constructed in accordance with the approved SWPP plans prior to any grading or extensive land clearing. These facilities must be satisfactorily maintained until construction and landscaping is completed and the potential for on-site erosion has passed. Sediment laden waters shall not enter the natural drainage system.
8. Noncompliance with the requirements for; erosion controls, water quality and clearing limits may result in revocation of; project permits, plan approval and bond forfeitures.
9. Trench backfill of new utilities and storm drainage facilities shall be compacted to 95% maximum density (modified proctor) under roadways and 90% maximum density (modified proctor) off roadways. Compaction shall be performed in accordance with Sections 7-08.3(3) and 2-03.2(14)(C) - Method B as defined in the current edition of the WSDOT Standard Specifications for Road, Bridge, and Municipal Construction.
10. The owner and contractor shall be responsible for locating and protecting all existing utilities prior to beginning construction. Location of utilities shown on construction plans are based on best records available and are subject to variation. For assistance in utility location, call 1-800-424-5555.
11. Prior to construction the owner and/or contractor shall notify the project engineer and the City engineer when conflicts exist between the plans and field conditions. Conflicts shall be resolved (including plan and profile revisions) and resubmitted for approval prior to proceeding with construction.
12. The contractor shall keep two sets of plans on site at all times for recording as-built information; one set shall be submitted to the project engineer, and one set shall be submitted to the City engineer at completion of construction and prior to final acceptance of work. Mukilteo Development Standards 55 A grading permit issued pursuant to the current adopted International Building Code, and approval of the temporary erosion and sedimentation control plan shall be obtained from the Community Development Department prior to any on-site grading work not expressly exempt by the current adopted International Building Code.
13. Prior to commencement of framing, final drainage inspection and approval of the roof leader and positive footing systems shall be completed by the Building Department. Call 425-263-8000 to schedule the inspection.
14. The Construction Stormwater Pollution Prevention (SWPP) facilities shall be constructed in accordance with the approved SWPP plans prior to any grading or extensive land clearing. These facilities must be satisfactorily maintained until construction and landscaping is completed and the potential for on-site erosion has passed. Sediment laden waters shall not enter the natural drainage system.
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WESI
LAND USE
CONSULTANTS
(425) 356-2700
PLANNING ENGINEERING SURVEYING
* 9740 EVERGREEN WAY * EVERETT * WA * 98204 *
VISIT OUR WEBSITE AT: WWW.WESI.CO

DRAINAGE PLAN HANK SAFFOLD			
SE 1/4, NW 1/4, SEC.04, T.28N, R.04E, W.M. MUKILTEO, WASHINGTON			
DRAWN BY NBB	DATE 10/24/23	REV. BY DATE	PROJECT MANAGER R. SLEIGHT
DRAWING FILE NAME 181742A_MASTER.DWG	CHECKED BY/F.B. NO. RRS	JOB NUMBER 559	SCALE 1"=50'
18-1742-A			SHT 2

