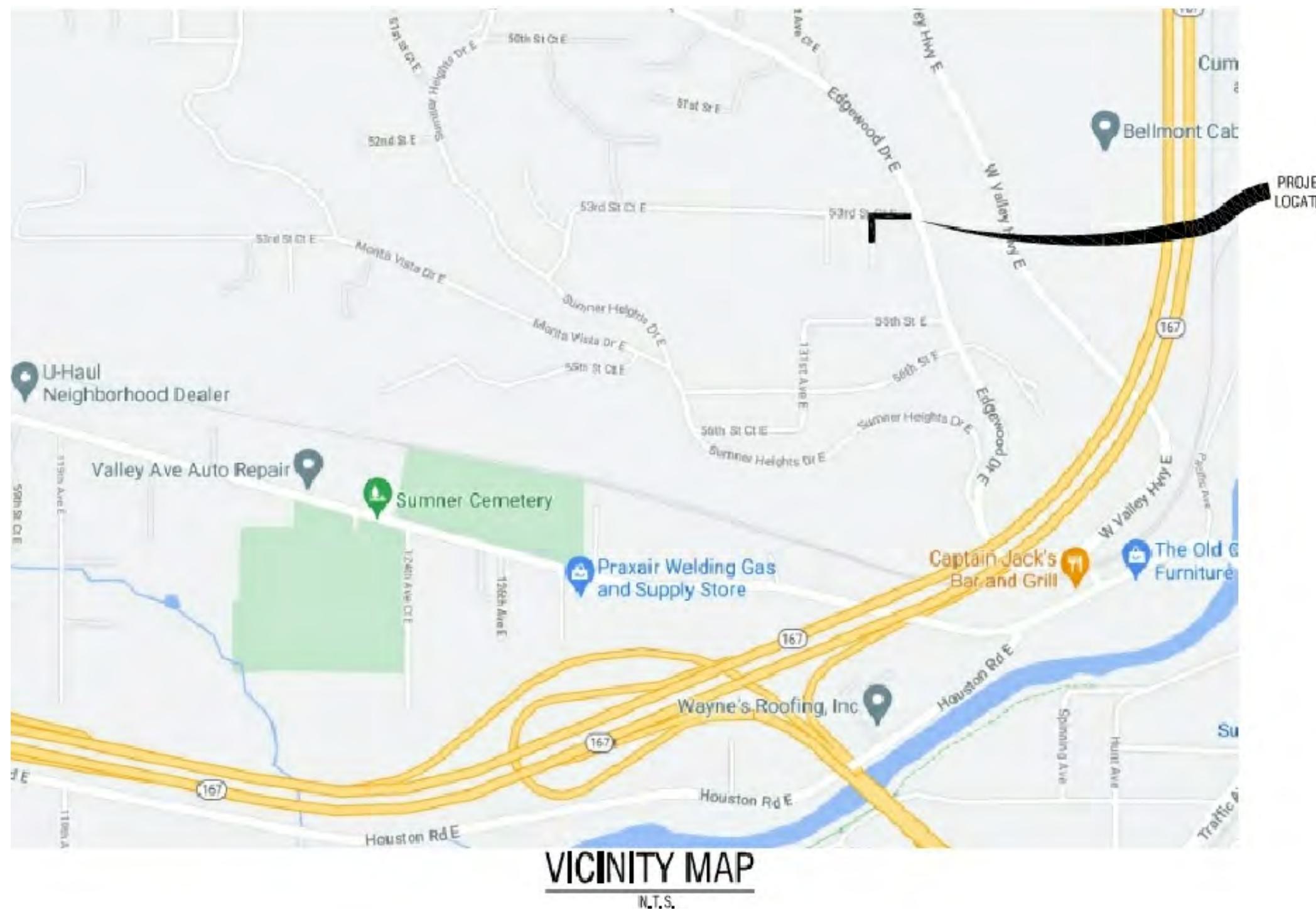


53rd and 132nd DRAINAGE



SHEET INDEX

- 1 COVER
- 2 EROSION CONTROL
- 3 PLAN AND PROFILE
- 4 PLAN AND PROFILE
- 5 NOTES AND DETAILS

CITY OFFICIALS

DARYL EIDINGER	MAYOR
MARK CRELEY	DEPUTY MAYOR
RYAN DAY	COUNCIL POSITION #2
TYRON CHRISTOPHERSON	COUNCIL POSITION #3
ROSANNE TOMYN	COUNCIL POSITION #4
JOHN WEST	COUNCIL POSITION #5
COLLEEN WISE	COUNCIL POSITION #6
NATE LOWRY	COUNCIL POSITION #7



GENERAL NOTE:

EXISTING UTILITY INFORMATION TAKEN FROM FIELD SURVEY
PREPARED BY GRAY & OSBORNE, AS-BUILT DRAWINGS,
AND UTILITY LOCATES IN THE FIELD. IT IS THE
CONTRACTORS RESPONSIBILITY TO VERIFY ALL UTILITIES
PRIOR TO CONSTRUCTION.

ALL CONSTRUCTION TO CONFORM TO WSDOT STANDARD
SPECIFICATIONS 2021 AND PIERCE COUNTY STANDARD
DETAILS.

PLANS PREPARED BY:



SURVEY PREPARED BY:



NOTE: CALL 1-800-424-5555 BEFORE YOU DIG.

NOTES

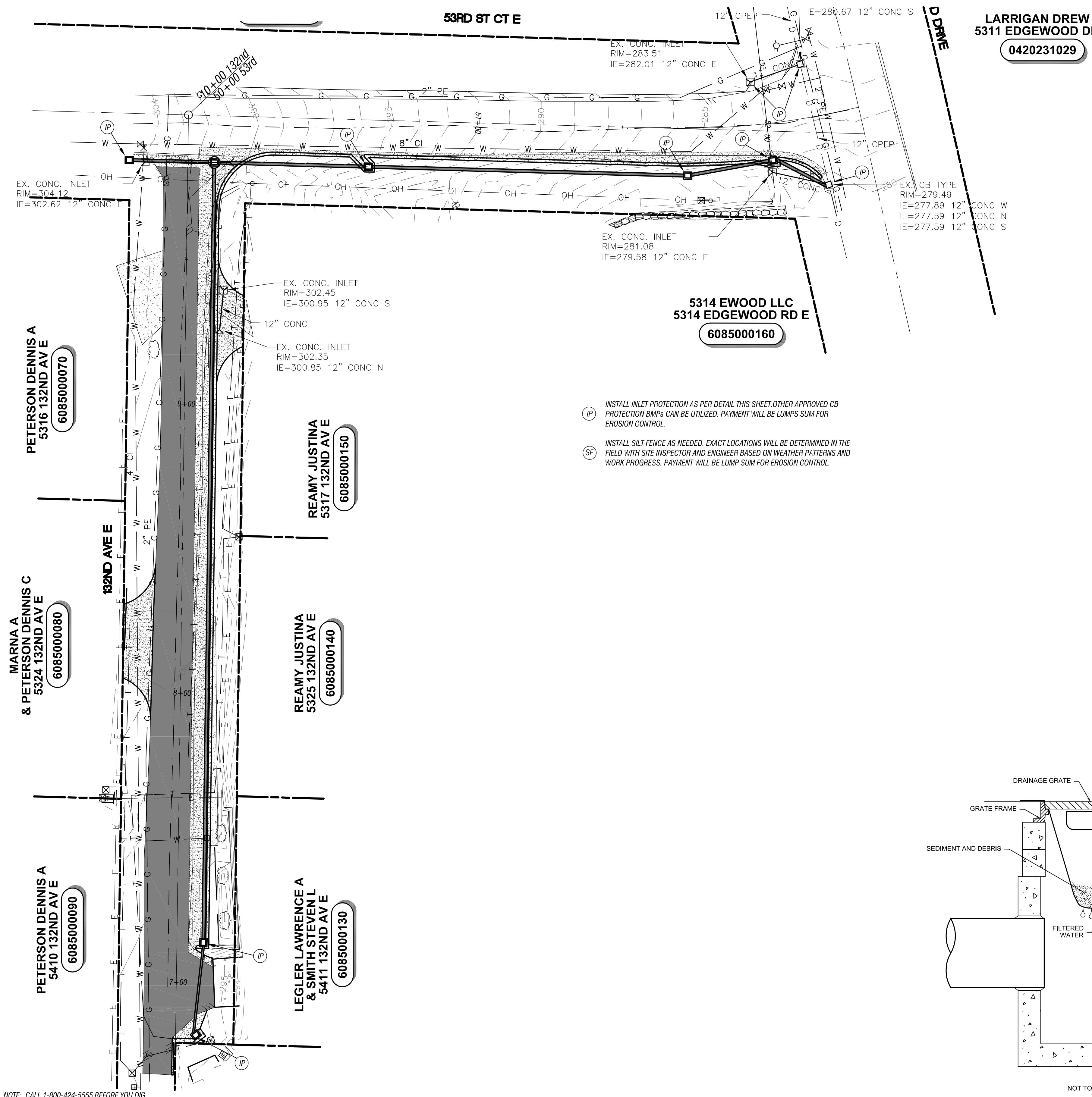
1. HORIZONTAL DATUM: NAD 83/11 WSPC SOUTH ZONE.
2. VERTICAL DATUM: NAVD 88
3. THIS SURVEY WAS PERFORMED USING LEICA GS16 RTK GPS ON THE WA. STATE REFERENCE NETWORK, NAD83-2011 (EPOCH 2010.00) TO ESTABLISH BASIS OF BEARING OF GRID NORTH, WA. COORDINATE SYSTEM, SOUTH ZONE, ALONG SET G&O CONTROL POINT NO'S 9 AND 10, AS SHOWN HEREON. ALL OTHER SURVEY WAS PERFORMED USING A LEICA TCRA 1201+ 1 SECOND TOTAL STATION, USING TRAVERSE AND RADIAL SURVEY METHODS. ALL DISTANCES ARE GROUND DISTANCES (AVG. CGF=0.99996327077). SURVEY MEETS AND/OR EXCEEDS ACCURACY REQUIREMENTS CONTAINED IN WAC 332-130-090.
4. TOPOGRAPHIC SURVEY PERFORMED ON 9/29/2020 AND REFLECT THE GENERAL CONDITIONS ON THE GROUND AT THAT TIME.
4. THIS SURVEY DOES NOT PURPORT TO SHOW ALL EASEMENTS OF RECORD OR OTHERWISE.
5. RIGHT-OF-WAY AND CENTERLINES HAVE BEEN DETERMINED BY HOLDING FOUND PLAT MONUMENTS AS NOTED.
6. THE PROPERTY LINES SHOWN HERE ON ARE BASED ON AVAILABLE INFORMATION, NOT ON A SURVEYED LOCATION AND ARE ONLY APPROXIMATE.



8/26/2021

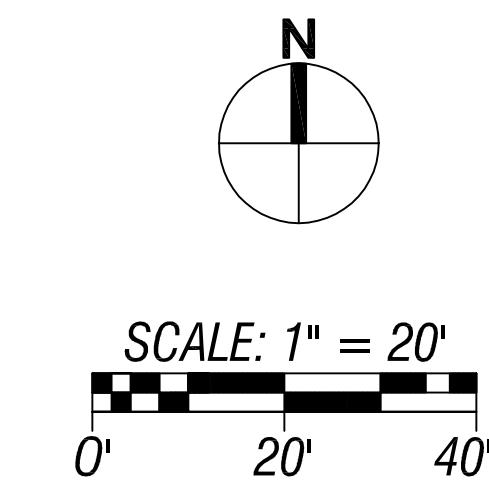
CITY OF EDGEWOOD	
2224 104th AVENUE EAST	
EDGEWOOD, WA 98372	
PROJECT NO.	PWSD 21-100
SHEET	1 OF 5

53rd and 132nd DRAINAGE

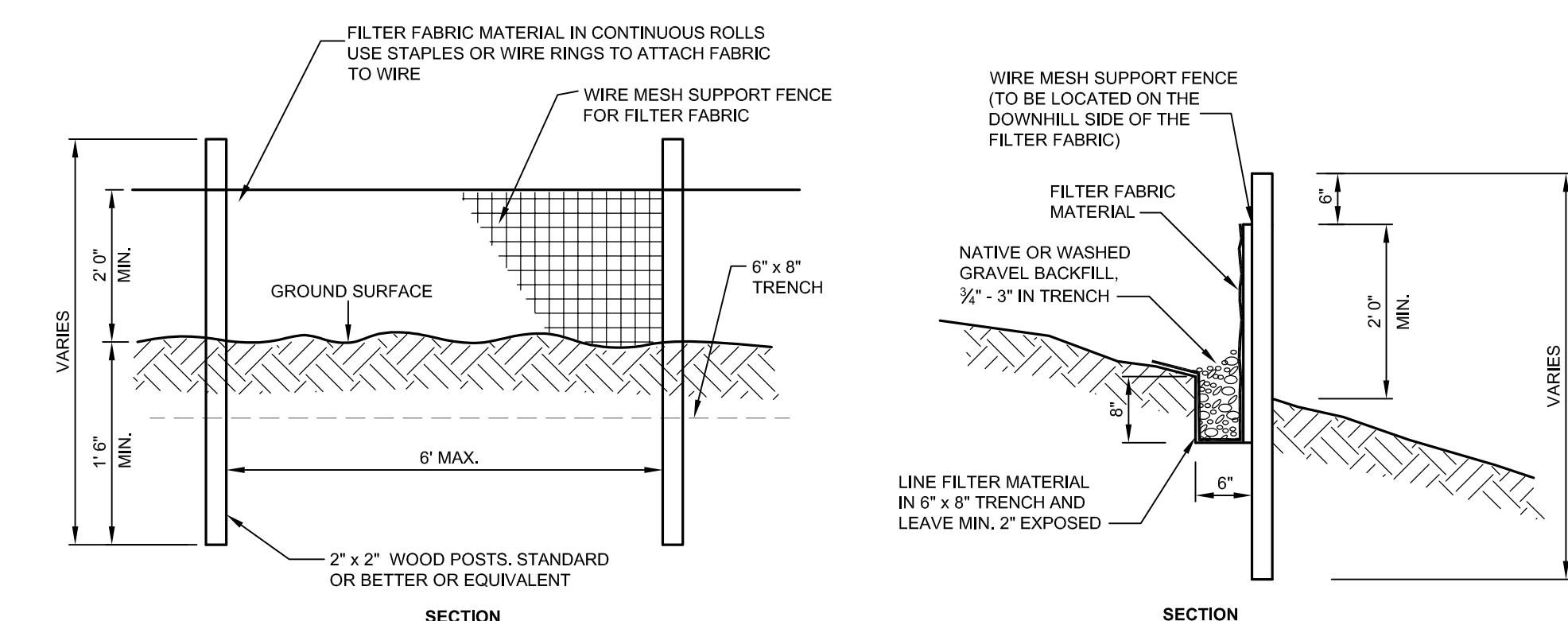


EROSION/SEDIMENTATION CONTROL NOTES

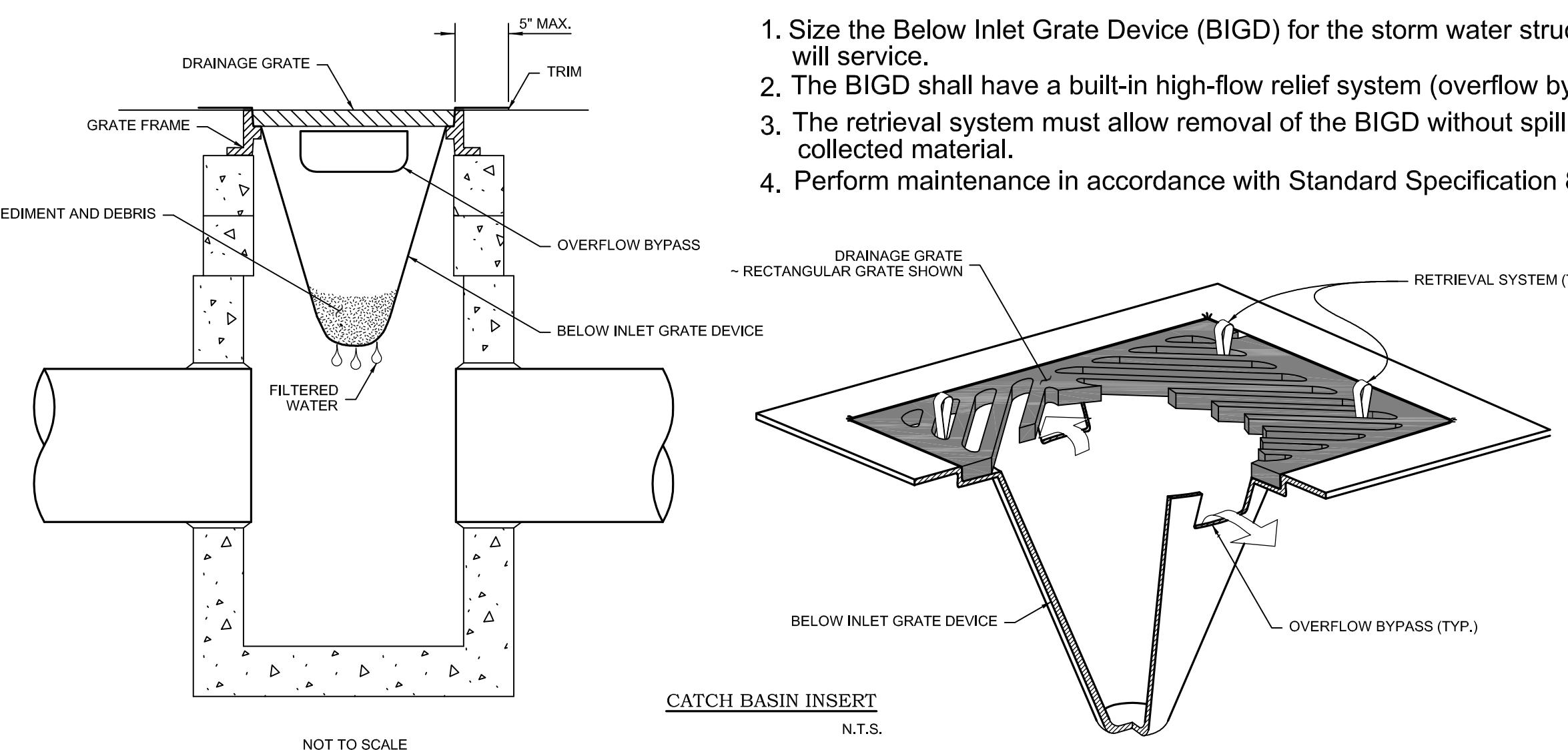
1. CONTRACTOR SHALL SUBMIT TEMPORARY WATER POLLUTION/EROSION CONTROL PLAN PER THE CONTRACT SPECIFICATIONS. THESE TESC PLANS ARE NOT INTENDED TO BE COMPLETE. THE CONTRACTOR SHALL PROTECT JOVITA CREEK AND THE STREAMS ABUTTING THE PROJECT.
2. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION SHALL BE OBSERVED DURING CONSTRUCTION.
3. ALL REQUIRED SEDIMENTATION/EROSION CONTROL FACILITIES MUST BE IN OPERATION PRIOR TO LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION UNTIL SUCH TIME THAT CLEARING AND /OR CONSTRUCTION IS COMPLETED AND THE POSITION FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT AND ADDITIONS TO EROSION/SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
4. THE EROSION AND SEDIMENTATION CONTROL SYSTEMS DEPICTED ON THIS DRAWING ARE INTERIM MEASURES RECOMMENDED FOR CONSTRUCTION AND ARE SUBJECT TO CONSTRUCTION PROGRESSES AND AS UNEXPECTED OR SEASONAL CONDITIONS DICTATE. THE CONTRACTOR SHOULD ANTICIPATE THAT MORE EROSION AND SEDIMENTATION CONTROL FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SEDIMENTATION CONTROL ON THE PROPOSED SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE CONTRACTOR TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND THE WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM.
5. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING AND DISPOSING OF THE SEDIMENT. ALL CATCH BASINS, CONVEYANCE LINES AND DITCHES SHALL BE CLEANED PRIOR TO PAVING.
6. THE CONTRACTOR SHALL REMOVE MATERIAL DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO THE TOWN RIGHT-OF-WAY OR INTO THE EXISTING STORM DRAINAGE SYSTEM. DEBRIS SHALL NOT BE WASHED INTO THE STORM DRAINAGE SYSTEM.
7. TEMPORARY EROSION CONTROL FACILITIES SHALL BE INSPECTED WEEKLY AND MAINTAINED WITHIN 24 HOURS FOLLOWING A STORM EVENT. SEDIMENT SHALL BE REMOVED TO INSURE THE FACILITIES WILL FUNCTION PROPERLY. THE FACILITIES SHALL BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. ALL STORM DRAIN INLETS MADE OPERABLE DURING CONSTRUCTION SHALL BE PROTECTED SO THAT
8. STORMWATER RUNOFF SHALL NOT ENTER THE CONVEYANCE SYSTEM WITHOUT FIRST BEING FILTERED OR OTHERWISE TREATED TO REMOVE SEDIMENT.



SCALE: 1" = 20'



FILTER FABRIC FENCE DETAIL
N.T.S.



NOT TO SCALE



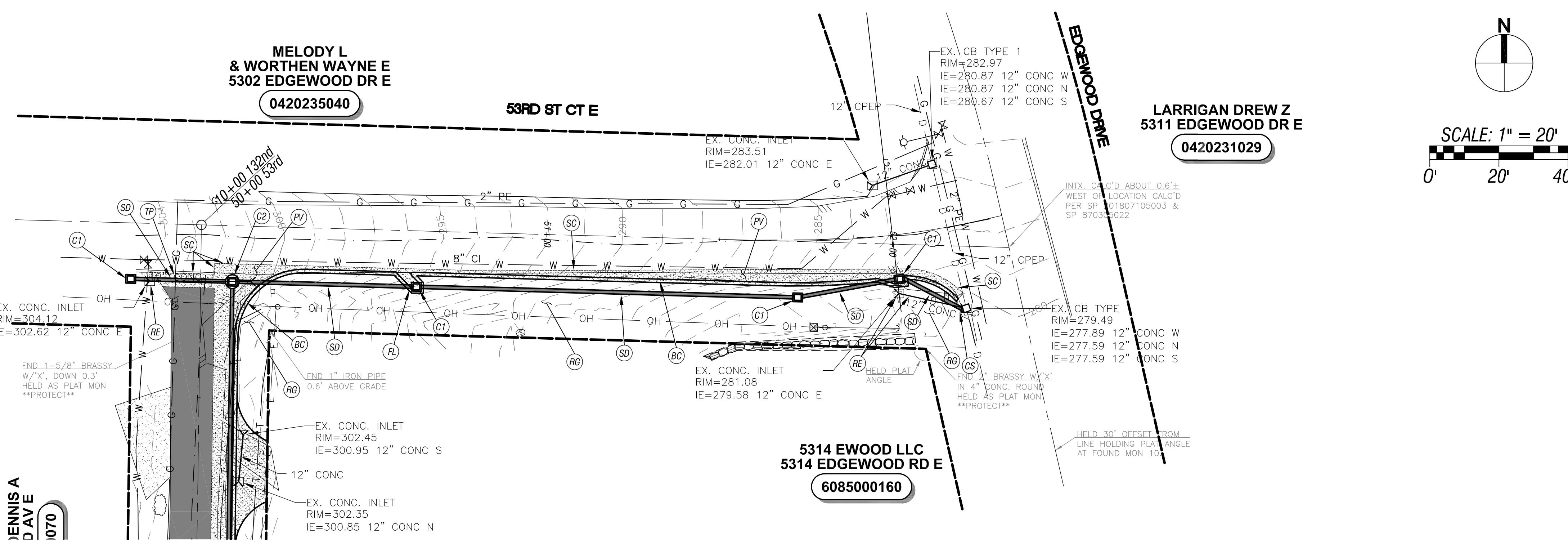
8/26/2021

CITY OF EDGEWOOD
2224 104th AVENUE EAST
EDGEWOOD, WA 98372

PROJECT NO. PWS 21-100

SHEET 2 OF 5

53rd and 132nd DRAINAGE



**PETERSON DENNIS A
5316 132ND AV E**

FIELD LOCATE CATCH BASIN AT STA 49+80 AND SLOPE OF PIPE TO AVOID CONFLICTS WITH EXISTING GAS AND WATER. NOTIFY CITY AND ENGINEER WITH CONFLICTS AS SOON AS THEY ARE DISCOVERED.

RE

WL X-ING

GAS X-ING

CONST 28 LF
12" ADS N-12 SD
S=19.48%

CONST 55 LF 12" ADS N-12 SD S=3.03%

EXISTING GRADE AT CL

STA 49+80 - 16.15' RT
CONST TYPE II CB
RIM=304.15 (FIELD VERIFY)
I.E. E=299.15

STA 50+08.22 - 16.15' RT
CONST TYPE I CB
RIM=301.45 (FIELD VERIFY)
I.E. W=293.65
I.E. S & E=292.65

STA 50+62.69 - 16.15' RT
CONST TYPE II CB
RIM=294.00 (FIELD VERIFY)
I.E. E & W=291.00

STA 51+73.04 - 16.15' RT
CONST TYPE I CB
RIM=282.50 (FIELD VERIFY)
I.E. E & W=279.50

STA 52+01.65 - 9.63' RT
CONST TYPE I CB
RIM=281.75 (FIELD VERIFY)
I.E. E & W=278.75

STA 52+21.87 - 17.94' RT
EXIST TYPE I CB
RIM=279.49
I.E. W=277.89 (PROPOSED 12" AD)
I.E. N & S=277.59 (EXIST 12" CON)

CONST 170 LF 12" ADS N-12 SD S=10.42%

CONST 29 LF
12" ADS N-12 SD
S=2.56%

CONST 21 LF
12" ADS N-12 SD
S=4.06%

50+00 51+00 52+00

This technical drawing illustrates a typical section of a street improvement project. The overall width of the Right of Way is 30'. A central ROW (Right of Way) is 60' wide, with a ROW C of 12' and a ROW F of 12'. The ROW is divided into a PAVE F (12') and a SAWCUT (12') section. The SAWCUT is bounded by an EXIST E.O.P. (Existing Edge of Pavement) on the left and an EXIST E.O.P. on the right. A GUTTER LINE is located at the boundary of the SAWCUT. The street surface consists of HOT MIX ASPHALT CL. $\frac{1}{2}$ IN. with a 3" MIN. COMPACTED DEPTH. The subgrade is CRUSHED SURFACING TOP COURSE with a 2" MIN. COMPACTED DEPTH. The base layer is GRAVEL BASE 12" COMPACTED DEPTH. A note specifies CONSTRUCT ASPHALT CONCRETE BARRIER CURB AS PER P.C. STANDARD DETAIL PC.F8.1. The drawing is labeled "TYPICAL SECTION" at the bottom.

TYPICAL SECTION

CONSTRUCT 12" ADS N-12 STORM DRAIN AT GRADE SHOWN IN PROFILE. MEASUREMENT: LF OF 12" STORM. BID ITEM: INCLUDES ALL EXCAVATION, PIPE, MANPOWER, EQUIPMENT, TOOLS, TRENCH BACKFILL TO PERFORM THE WORK. PAYMENT: PER LF.

CONSTRUCT TYPE I CATCH BASIN AT GRADES AND LOCATION SHOWN IN PROFILE. MEASUREMENT: EACH TYPE I CONSTRUCTED. BID ITEM: INCLUDES ALL EXCAVATION, MATERIALS, MANPOWER, EQUIPMENT, TOOLS, BACKFILL, RISERS, GROUT, LIDS, GRATES, TO PERFORM THE WORK AND BRING TO FINISHED GRADE. PAYMENT: PER EA.

CONSTRUCT TYPE II CATCH BASIN AT GRADES AND LOCATION SHOWN IN PROFILE. MEASUREMENT: EACH TYPE I CONSTRUCTED. BID ITEM: INCLUDES ALL EXCAVATION, MATERIALS, MANPOWER, EQUIPMENT, TOOLS, BACKFILL, RISERS, GROUT, COVERS, TO PERFORM THE WORK AND BRING TO FINISHED GRADE. PAYMENT: PER EA.

SAWCUT EXISTING PAVEMENT TO CREATE A CLEAN EDGE FOR PAVING. MEASUREMENT: LF OF SAWCUTTING COMPLETED. BID ITEM: INCLUDES ALL MANPOWER, EQUIPMENT, TOOLS, TO PERFORM THE WORK. PAYMENT: PER LF.

PAVE AS SHOWN IN TYPICAL SECTION AND ON PLANS. MEASUREMENT: PER TON OF AC. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS, TESTING, COMPACTION EQUIPMENT TO PERFORM THE WORK. PAYMENT: PER TON OF AC.

CONSTRUCT AC BARRIER CURB OR AC RAISED EDGE AS SHOWN IN DETAIL. MEASUREMENT: PER LF OF CURB. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS, TO PERFORM THE WORK. PAYMENT: PER LF OF AC BARRIER OR RAISED EDGE CURB.

CONSTRUCT DRIVEWAY APPROACH AS PER STANDARD DETAIL. MEASUREMENT: PER EACH DRIVEWAY APPROACH CONSTRUCTED. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS NEEDED TO PERFORM THE WORK. PAYMENT: PER EACH DRIVEWAY APPROACH CONSTRUCTED.

CONSTRUCT ASPHALT FLUME FOR CATCH BASIN BUP OUT, TO CONTROL DRAINAGE ON STEEP GRADE. MEASUREMENT AND PAYMENT WILL BE INCIDENTAL TO TONNAGE OF ASPHALT AND LINEAL FEET OF CURB.

RE-GRADE EXISTING DITCH OR DRESS UP EXISTING SHOULDER. MEASUREMENT: PER SQUARE YARD OF DITCH OR SHOULDER GRADED. BID ITEM: INCLUDES ALL MATERIALS, EQUIPMENT, EXCAVATION, AGGREGATE, MULCH, SEEDING, TOOLS, MANPOWER TO PERFORM THE WORK. PAYMENT: PER SQUARE YARD, MEASURED IN THE FILED, OF DITCH OR SHOULDER RESTORATION.

TRENCH PATCH AS AS PER STANDARD DETAIL. MEASUREMENT: INCIDENTAL TO TONNAGE OF ASPHALT.

REMOVE AND DISPOSE OF EXISTING STORM PIPE AND/OR STRUCTURE. MEASUREMENT AND PAYMENT WILL BE INCIDENTAL TO LINEAL FEET OF STORM DRAIN.

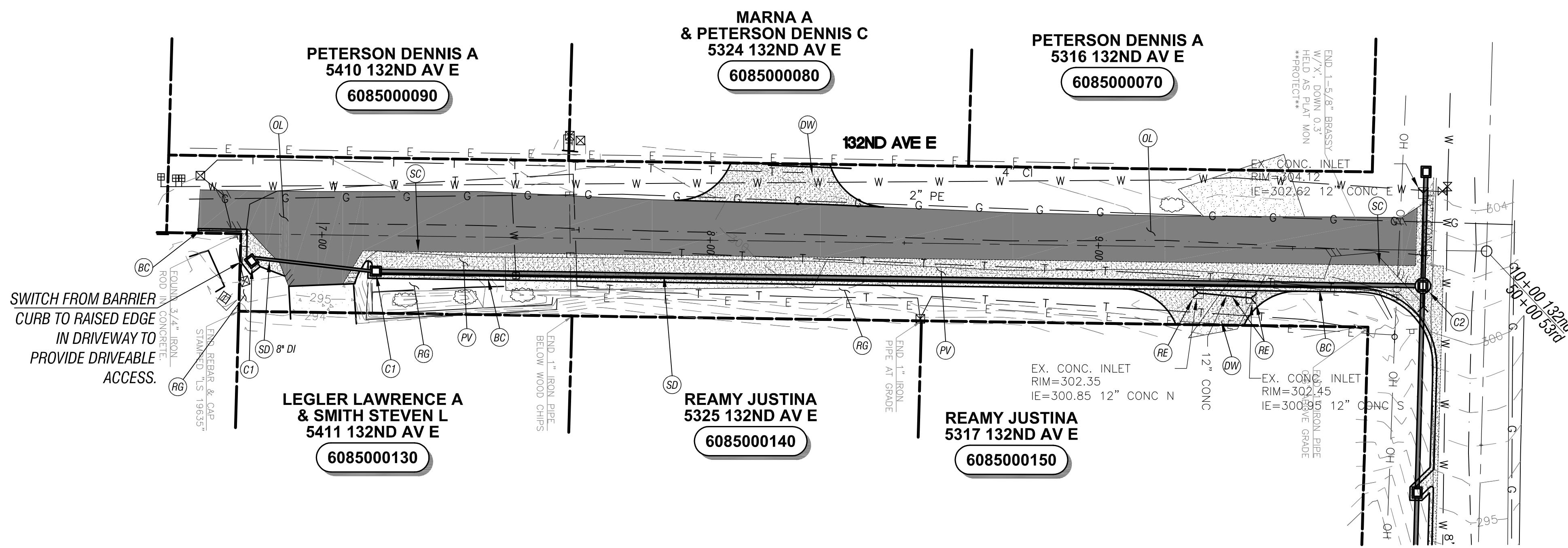
CONNECT TO EXISTING DRAINAGE STRUCTURE. MEASUREMENT: WILL BE PER EACH CONNECTION MADE. BID ITEM: INCLUDES ALL MATERIALS, MANPOWER, EQUIPMENT, GROUT, TOOLS TO MAKE THE CONNECTION. PAYMENT: PER EACH CONNECTION.

1-1/2" OVERLAY OVER EXISTING ROAD AS SHOWN. MEASUREMENT: WILL BE PER TON OF AC. BID ITEM INCLUDES: ALL MATERIALS, TESTING, MANPOWER, EQUIPMENT, TOOLS TO LAY AND COMPACT TO WSDOT SPECIFICATIONS. PAYMENT: PER TON.

CITY OF EDGEWOOD
2224 104th AVENUE EAST
EDGEWOOD, WA 98223

PROJECT NO.	PWSD 21-100
SHEET	3 OF 5

53rd and 132nd DRAINAGE



CONSTRUCT 12" ADS N-12 STORM DRAIN AT GRADE SHOWN IN PROFILE.
MEASUREMENT: LF OF 12" STORM. BID ITEM: INCLUDES ALL EXCAVATION, PIPE, MANPOWER, EQUIPMENT, TOOLS, TRENCH BACKFILL TO PERFORM THE WORK.
PAYMENT: PER LF.

CONSTRUCT TYPE I CATCH BASIN AT GRADES AND LOCATION SHOWN IN PROFILE.
MEASUREMENT: EACH TYPE I CONSTRUCTED. BID ITEM: INCLUDES ALL EXCAVATION, MATERIALS, MANPOWER, EQUIPMENT, TOOLS, BACKFILL, RISERS, GROUT, LIDS, GRATES, TO PERFORM THE WORK AND BRING TO FINISHED GRADE. PAYMENT: PER EA.

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MEASUREMENT: EACH TYPE I CONSTRUCTED. BID ITEM: INCLUDES ALL EXCAVATION, MATERIALS, MANPOWER, EQUIPMENT, TOOLS, BACKFILL, RISERS, GROUT, COVERS, TO PERFORM THE WORK AND BRING TO FINISHED GRADE. PAYMENT: PER EA.

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PAVE AS SHOWN IN TYPICAL SECTION AND ON PLANS. MEASUREMENT: PER TON OF AC. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS, TESTING, COMPACTION EQUIPMENT TO PERFORM THE WORK. PAYMENT: PER TON OF AC.

CONSTRUCT AC BARRIER CURB OR AC RAISED EDGE AS SHOWN IN DETAIL.
MEASUREMENT PER LF OF CURB. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS, TO PERFORM THE WORK. PAYMENT: PER LF OF AC BARRIER OR RAISED EDGE CURB.

CONSTRUCT DRIVEWAY APPROACH AS PER STANDARD DETAIL. MEASUREMENT: PER EACH DRIVEWAY APPROACH CONSTRUCTED. BID ITEM: INCLUDES ALL ASPHALT, MANPOWER, EQUIPMENT, TOOLS NEEDED TO PERFORM THE WORK.
PAYMENT: PER EACH DRIVEWAY APPROACH CONSTRUCTED.

CONSTRUCT ASPHALT FLUME FOR CATCH BASIN BUP OUT, TO CONTROL DRAINAGE ON STEEP GRADE. MEASUREMENT AND PAYMENT WILL BE INCIDENTAL TO TONNAGE OF ASPHALT AND LINEAL FEET OF CURB.

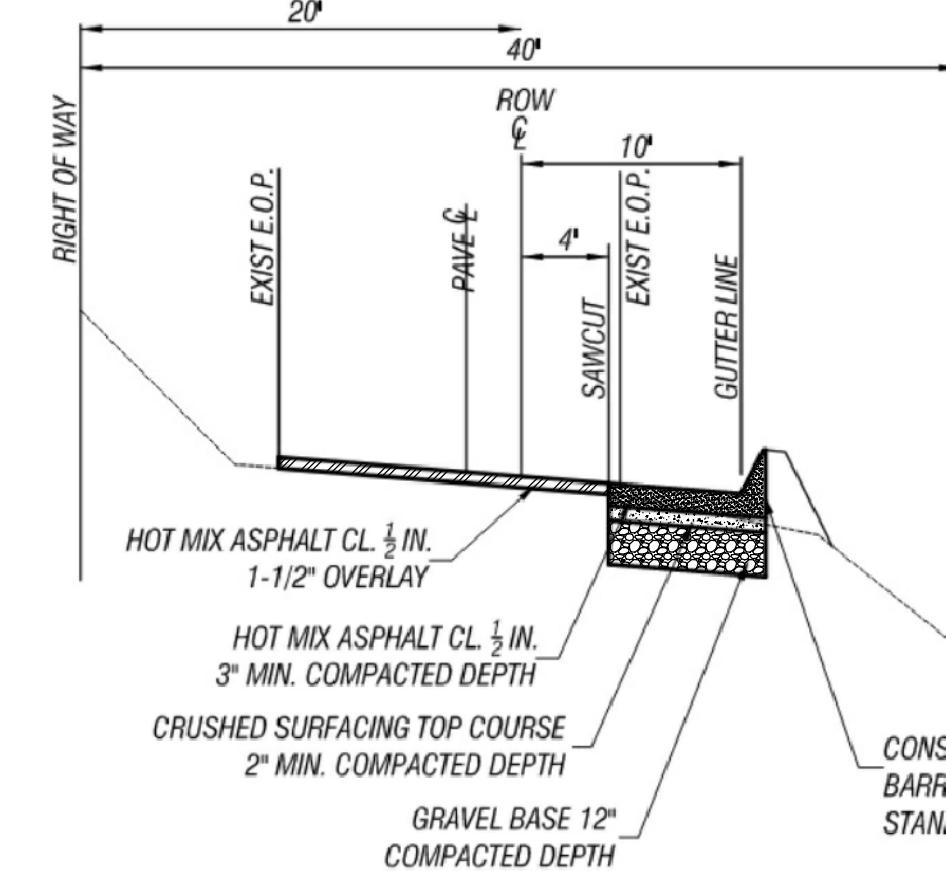
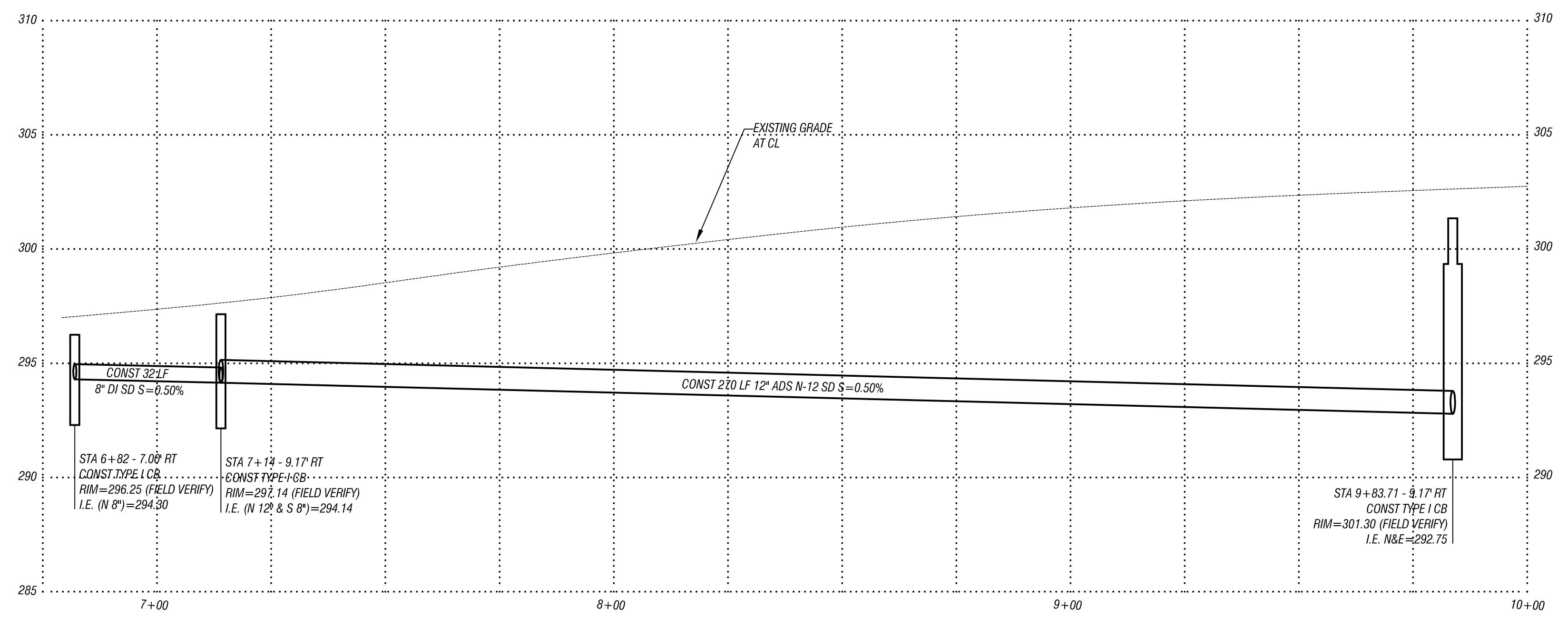
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TRENCH PATCH AS AS PER STANDARD DETAIL. MEASUREMENT: INCIDENTAL TO TONNAGE OF ASPHALT.

REMOVE AND DISPOSE OF EXISTING STORM PIPE AND/OR STRUCTURE.
MEASUREMENT AND PAYMENT WILL BE INCIDENTAL TO LINEAL FEET OF STORM DRAIN.

CONNECT TO EXISTING DRAINAGE STRUCTURE. MEASUREMENT: WILL BE PER EACH CONNECTION MADE. BID ITEM: INCLUDES ALL MATERIALS, MANPOWER, EQUIPMENT, GROUT, TOOLS TO MAKE THE CONNECTION. PAYMENT: PER EACH CONNECTION.

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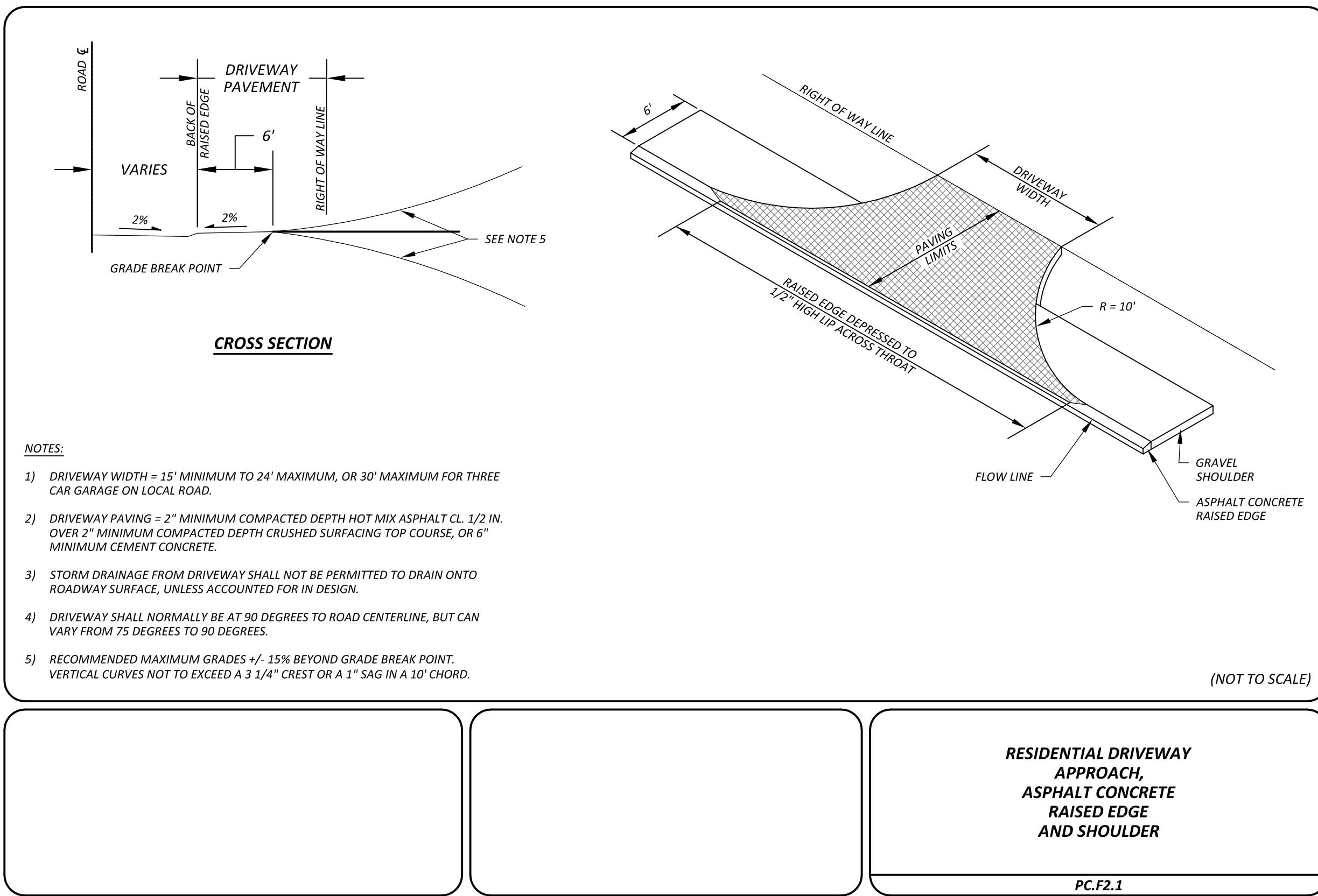


YPICAL SECTION
N.T.S.

<p style="text-align: center;">CITY OF EDGEWOOD 2224 104th AVENUE EAST EDGEWOOD, WA 98372</p>	
PROJECT NO.	PWSD 21-10
SHEET	4 OF 5

NOTE: CALL 1-800-424-5555 BEFORE YOU DIG.

53rd and 132nd DRAINAGE



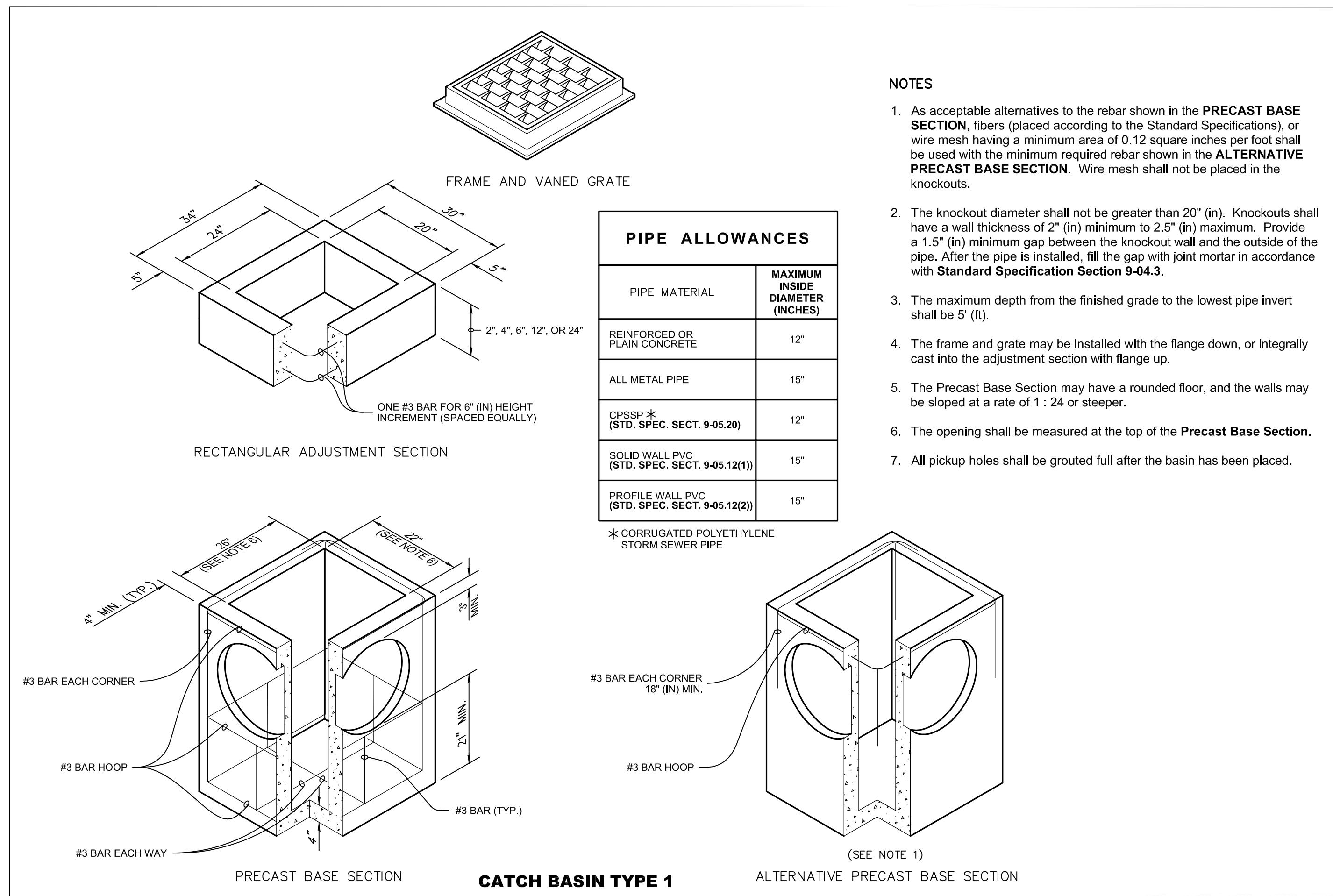
GENERAL NOTES:

1. ALL MATERIALS AND WORKMANSHIP SHALL BE FURNISHED AND SUPPLIED IN ACCORDANCE WITH THE 2018 WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THESE CONTRACT DOCUMENTS UNLESS OTHERWISE SPECIFICALLY NOTED.
2. THE CONTRACTOR SHALL HAVE A COPY OF THESE PLANS, ANY ADDENDA, CHANGE ORDERS, AND THE CONTRACT SPECIFICATIONS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
3. THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN THE EVENT OR DISCOVERY OF UNSUITABLE SOILS OR HIGH GROUND WATER CONDITIONS OR DISCREPANCIES FROM THE PLANS.
4. WHENEVER PLANS REFER TO "SAWCUT" OF ASPHALT PAVEMENT OR OIL MAT, OR CONCRETE SURFACE, THE CONTRACTOR SHALL PERFORM A "NEAT LINE CUT" PER SPECIFICATIONS.
5. PROTECTION OF THE ENVIRONMENT: NO CONSTRUCTION RELATED ACTIVITY SHALL CONTRIBUTE TO THE DEGRADATION OF THE ENVIRONMENT, ALLOW MATERIAL TO ENTER SURFACE OR GROUNDWATERS, OR ALLOW PARTICULATE EMISSIONS TO THE ATMOSPHERE, WHICH EXCEED STATE OR FEDERAL STANDARDS. ANY ACTIONS THAT POTENTIALLY ALLOW A DISCHARGE TO STATE WATERS MUST HAVE PRIOR APPROVAL OF THE STATE OF WASHINGTON DEPARTMENT OF ECOLOGY.

NOTES:

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" (in) minimum to 2.5" (in) maximum. Provide a 1.5" (in) minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification Section 9-04.3.

CATCH BASIN TYPE 2



CATCH BASIN DIMENSIONS				
CATCH BASIN DIAMETER	MIN. WALL THICKNESS	MIN. BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS
48"	4"	6"	36"	8"
54"	4.5"	8"	42"	8"
60"	5"	8"	48"	8"
72"	6"	8"	60"	12"
84"	8"	12"	72"	12"
96"	8"	12"	84"	12"
120"	10"	12"	96"	12"
144"	12"	12"	108"	12"

PIPE ALLOWANCES				
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER	ALL METAL	CPSSP①	SOLID WALL PVC②
48"	24"	30"	24"	30"
54"	30"	36"	30"	36"
60"	36"	42"	36"	42"
72"	42"	54"	42"	48"
84"	54"	60"	54"	48"
96"	60"	72"	60"	48"
120"	66"	84"	60"	48"
144"	78"	96"	60"	48"

① Corrugated Polyethylene Storm Sewer Pipe (See Standard Specification Section 9-05.20)
 ② See Standard Specification Section 9-05.12(1)
 ③ See Standard Specification Section 9-05.12(2)
 ④ Polypropylene Pipe (See Standard Specification Section 9-05.24)

