

SITE ADDRESS

433 43RD AVE SW
PUYALLUP, WA 98373

PARCEL NUMBER

0419095003

LEGAL DESCRIPTION

LOT 3 OF SHORT PLAT 79-557
EASE OF RECORD OUT OF 1-900
& 1-053 SEG M-1448

OWNER

HC HOMES INC.
20921 SNAG ISLAND DR.
LAKE TAPPS, WA. 98391

UTILITIES

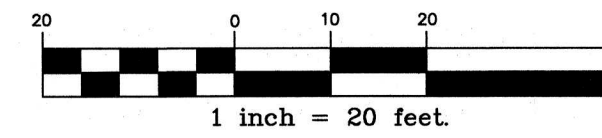
WATER: FRUITLAND WATER
SEWER: SEPTIC
POWER: PUGET SOUND ENERGY
GAS: PUGET SOUND ENERGY
COMMUNICATIONS: COMCAST / LUMEN

Line Table with columns: Line #, Direction, Length. Rows L1 to L6.

Curve Table with columns: Curve #, Length, Radius, Delta. Rows C1 to C3.

PUYALLUP DUPLEX - LOT 1

A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 34, TWP. 20 N., RGE. 4 E.,
WILLAMETTE MERIDIAN, CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON



GENERAL APPROVAL NOTES

ALL METHODS OUTLINED IN THE APPROVED STORMWATER
REPORT DATED DECEMBER 2023 MUST BE FOLLOWED IN
REGARDS TO CONTROL OF DOWNSPOUTS AND
STORMWATER RUNOFF.

A RECORDED COPY OF THE APPROVED STORMWATER
MAINTENANCE AGREEMENT MUST BE PROVIDED TO THE
CITY PRIOR TO RECEIVING A CERTIFICATE OF
OCCUPANCY.

ALL CIVIL WORK ASSOCIATED WITH CIVIL PERMIT
PRRNSF20230919 MUST BE COMPLETED PRIOR TO
OCCUPANCY.

EROSION CONTROL NOTES

THE APPLICANT SHALL REQUEST A SEDIMENT CONTROL
AND EROSION INSPECTION WITH A CITY ENGINEERING
INSPECTOR THROUGH THE CITYVIEW PORTAL AT LEAST
48 HOURS IN ADVANCE OF JOB START.
SEE CITY STANDARDS 02.03.02 & 05.02.01.

ALL METHODS OUTLINED IN THE APPROVED STORMWATER
REPORT DATED DECEMBER 2023 MUST BE FOLLOWED IN
REGARDS TO EROSION AND SEDIMENTATION CONTROL.

ADD INLET PROTECTION ON ALL PROPOSED INLETS IF
USED DURING CONSTRUCTION.
SEE CB SEDIMENT PROTECTION DETAIL 2 ON SHEET C2.

APPROVED

BY CITY OF PUYALLUP
ENGINEERING SERVICES

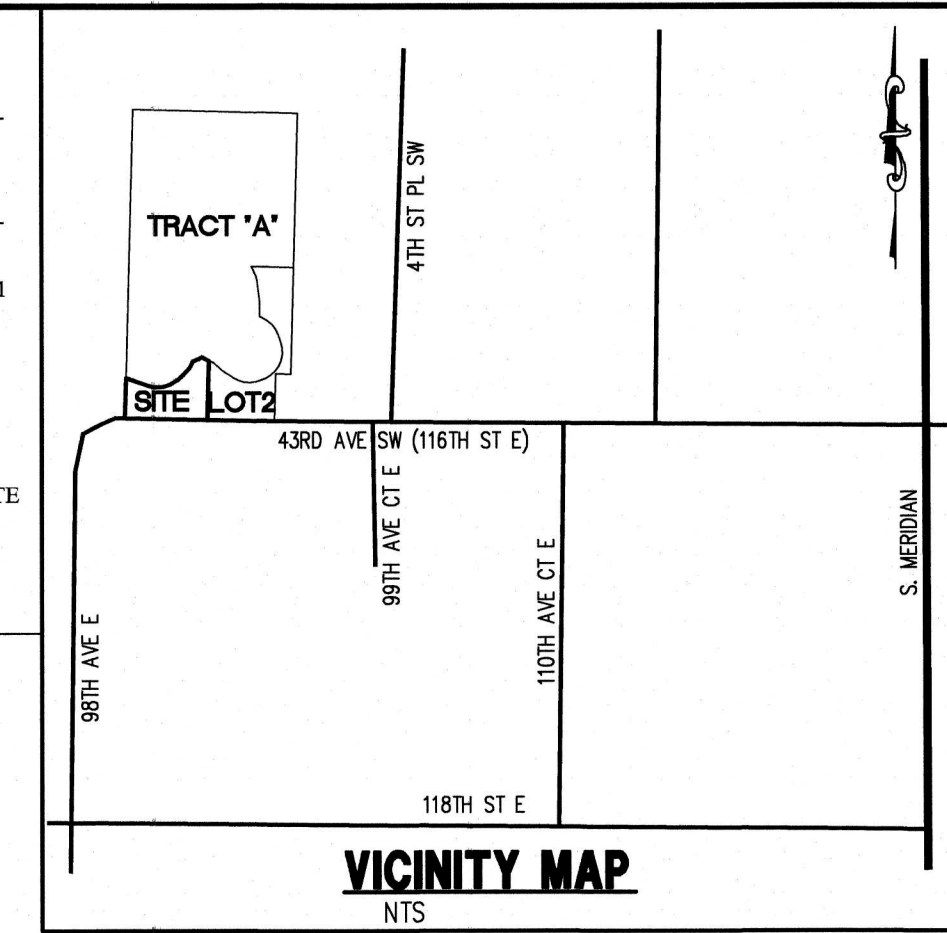
DATE

NOTE:
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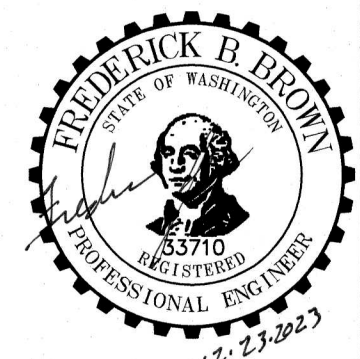
PERMIT# PRRNSF20230919



VICINITY MAP
NTS

LEGEND

Legend table with columns: EXISTING, DESCRIPTION, PROPOSED. Lists various symbols for lines, fences, contours, and utilities.

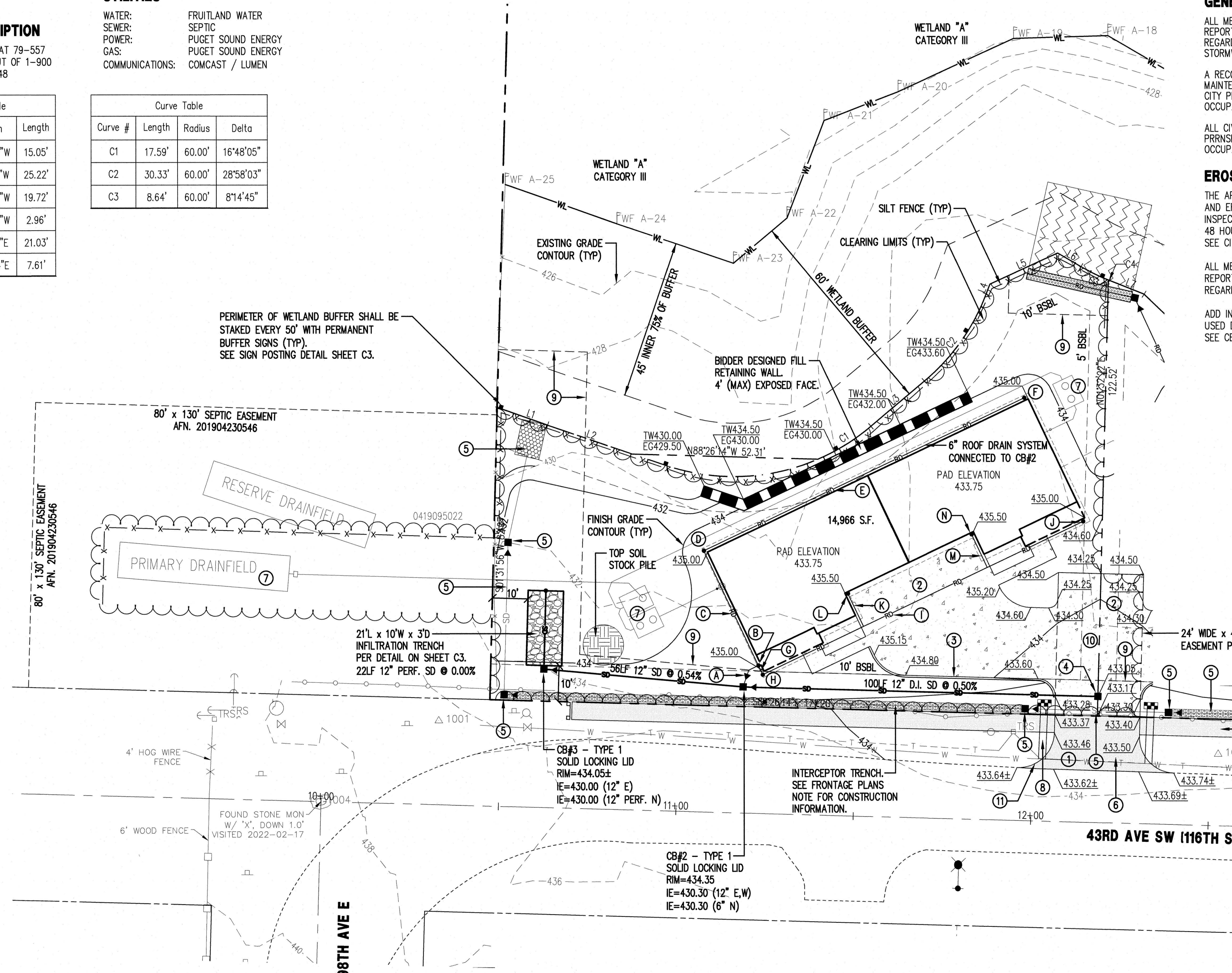


C.E.S. NW INC.
CIVIL ENGINEERING & SURVEYING
429 - 29TH ST. NE, SUITE D
PUYALLUP, WA 98372
PH: (253) 848-4282
ceservices@cesnwninc.com

**PUYALLUP DUPLEX - LOT 1
GRADING, STORM, & TESC PLAN**

Project: PUYALLUP DUPLEX - LOT 1
Client: HC HOMES INC.
P.O. BOX 7707, BONNEY LAKE, WA 98391

Designed: ENO
Drawn: MRL
Checked: ENO
Scale: 1" = 20'
Date: 10/31/2023
Job No.: 20069
Sheet No.: C1
1 of 3 Sheets



CONSTRUCTION SEQUENCE

- 1. THE CONTRACTOR IS TO REQUEST A PRE-CONSTRUCTION MEETING WITH THE CITY'S INSPECTOR.
- 2. CLEARLY STAKE, FLAG OR FENCE CLEARING LIMITS/WORK AREA. NO WORK SHALL BE PERFORMED OUTSIDE THESE LIMITS WITHOUT PRIOR APPROVAL FROM THE CITY OF PUYALLUP.
- 3. PRIOR TO STARTING SITE WORK, REQUEST AN INSPECTION FOR EROSION AND SEDIMENT CONTROL, BY USING THE CITYVIEW ONLINE PERMIT PORTAL FOR SCHEDULING. CONTRACTOR MUST BE A PORTAL USER TO REQUEST INSPECTIONS.
- 4. PROVIDE SILT FENCING AS SHOWN ON THE APPROVED PLANS.
- 5. GRADE SITE AS SHOWN ON THE APPROVED PLANS.
- 6. CONSTRUCT THE DUPLEX FOUNDATION, SEPTIC, AND WATER SERVICE.
- 7. CONSTRUCT THE DISPERSAL TRENCHES AND CLOSED CONVEYANCE SYSTEM.
- 8. PAVE THE DRIVEWAY AND AMEND THE LANDSCAPE AND LAWN AREAS WITH SOIL AMENDMENTS. AMEND SOILS PER CS 01.02.08A ON SHEET C2.
- 9. RELOCATE EROSION CONTROL MEASURES OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH CITY OF PUYALLUP AND DEPARTMENT OF ECOLOGY EROSION AND SEDIMENT CONTROL STANDARDS.
- 10. COVER ALL AREAS, INCLUDING STOCKPILES, THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER MULCH, PLASTIC SHEETING OR EQUIVALENT.
- 11. STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
- 12. SEED, SOO, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- 13. REQUEST FINAL INSPECTIONS ONLINE. UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMPS IF APPROPRIATE.

PLAN VIEW CALLOUTS

- 1 ASPHALT PAVEMENT DRIVEWAY APPROACH PER DETAIL ON SHEET C3
- 2 CEMENT CONCRETE DRIVEWAY APRON PER DETAIL ON SHEET C3
- 3 PRIVATE STORM DRAINAGE EASEMENT RECORDED UNDER SHORT PLAT AMENDMENT PLSHP20220104
- 4 PROPOSED FINISH GRADE SPOT ELEVATIONS CREATES AN INVERTED CROWN FOR THE PROPOSED 24' WIDE x 40' LONG SHARED ACCESS WHICH PROVIDES POSITIVE DRAINAGE FOR THE CONTRIBUTING DRIVEWAYS AND LANDSCAPE AREAS TO CB#1
- 5 RADIUS = 10' (TYP)
- 6 SEPTIC SYSTEM UNDER SEPARATE PERMIT
- 7 WATER SERVICES AND METERS INSTALLED UNDER SEPARATE PERMIT WITH FRUITLAND MUTUAL WATER COMPANY
- 8 PRIVATE STORM DRAINAGE EASEMENT RECORDED UNDER SHORT PLAT AMENDMENT PLSHP20220104
- 9 PROPOSED FINISH GRADE SPOT ELEVATIONS CREATES AN INVERTED CROWN FOR THE PROPOSED 24' WIDE x 40' LONG SHARED ACCESS WHICH PROVIDES POSITIVE DRAINAGE FOR THE CONTRIBUTING DRIVEWAYS AND LANDSCAPE AREAS TO CB#1
- 10 RADIUS = 10' (TYP)

ROOF DRAIN CALLOUTS

- A 8LF 6" SD @ 10.00%
- B 100LF 6" SD @ 2.25%
- C SDCO#5 RIM=435.00 IE=433.50
- D 36LF 6" SD @ 5.28%
- E SDCO#6 RIM=435.00 IE=433.50
- F 10LF 6" SD @ 15.40%±
- G SDCO#7 RIM=435.00 IE=433.50
- H 10LF 6" SD @ 6.70%±
- I SDCO#8 RIM=435.00 IE=433.50
- J 3LF 6" SD @ 5.00%
- K SDCO#4 RIM=435.00 IE=431.25

FRONTAGE PLANS NOTE

SEE APPROVED FRONTAGE PLANS OS1-OS2 FOR CONSTRUCTION INFORMATION RELATED TO INTERCEPTOR TRENCH STORM DRAINAGE SYSTEM AND 5' WIDE ASPHALT PAVED SIDEWALK. SIDEWALK SHALL BE INSTALLED AFTER ONSITE IMPROVEMENTS AND UTILITIES HAVE BEEN CONSTRUCTED.

PAD ELEVATION NOTE

PAD ELEVATIONS ARE BASED ON THE FOLLOWING FINISH GRADE ASSUMPTIONS.
EXAMPLE:
PAD ELEVATION = 100.00
FOOTING GRADE = 99.50
TOP OF FOUNDATION = 102.00
GARAGE FINISH GRADE = 101.75
FINISH GRADE BACKFILL = 101.25
PRIOR TO CONSTRUCTION CONTRACTOR SHALL CONFIRM ASSUMPTIONS WITH PROJECT OWNER.

SOIL AMENDMENT NOTE

ALL DISTURBED AREAS THAT WILL BE YARDS OR LANDSCAPING SHALL HAVE THEIR SOILS AMENDED TO BE OUTSIDE THE 500-YEAR FLOOD AND PROTECTED BY LEVEE FROM THE 100-YEAR FLOOD.

FLOODPLAIN NOTE

PER FEMA FIRM MAP 53053C0343E THE PARCELS AND ALL PROPOSED IMPROVEMENTS ARE LOCATED WITHIN ZONE X, WHICH IS THE AREA DETERMINED TO BE OUTSIDE THE 500-YEAR FLOOD AND PROTECTED BY LEVEE FROM THE 100-YEAR FLOOD.

LOT STATISTICS

EXISTING ZONING: RM-CORE
LOT AREA: 14,775 SF
PROP. FOOTPRINT: 3,050 SF
COVD PORCH/PATIO: 184 SF
DRIVEWAY/CONC.: 2,168 SF
TOTAL ROOF AREA: 3,639 SF
CLEARING LIMIT AREA: 14,200 SF

GRADING QUANTITIES

CUT: 750 CY
FILL: 750 CY
NET: 0 CY
NOTE: CONTRACTOR SHALL INDEPENDENTLY VERIFY THESE QUANTITIES. THEY ARE FOR PLANNING PURPOSES ONLY.

SHEET INDEX

C1 GRADING, STORM, & TESC PLAN
C2 TESC - NOTES & DETAILS
C3 NOTES & DETAILS

**CALL 48 HOURS
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DIAL 811**

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A PORTION OF THE NW 1/4 OF THE NW 1/4 OF SEC. 34, TWP. 20 N., RGE. 4 E.,
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APPROVED

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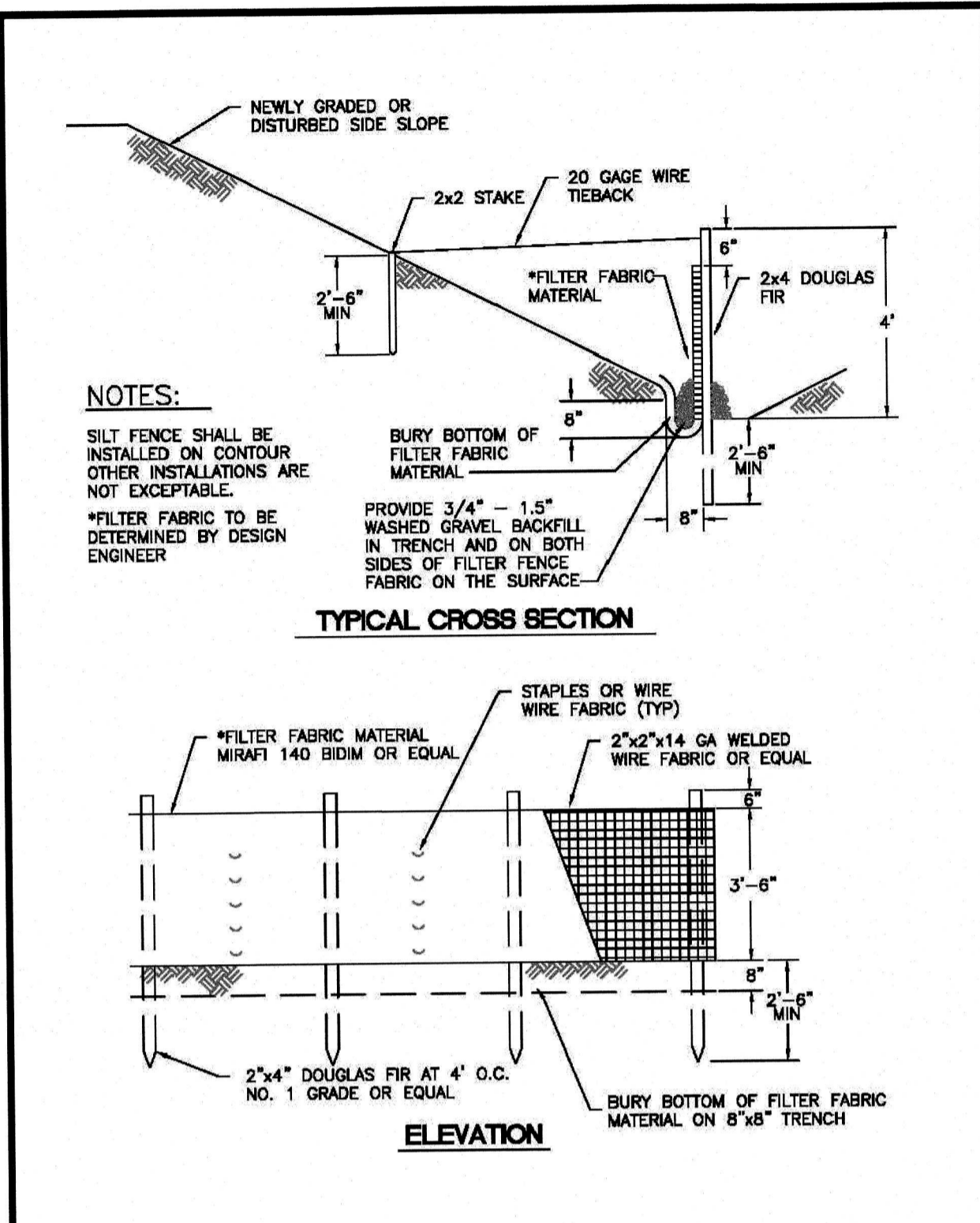
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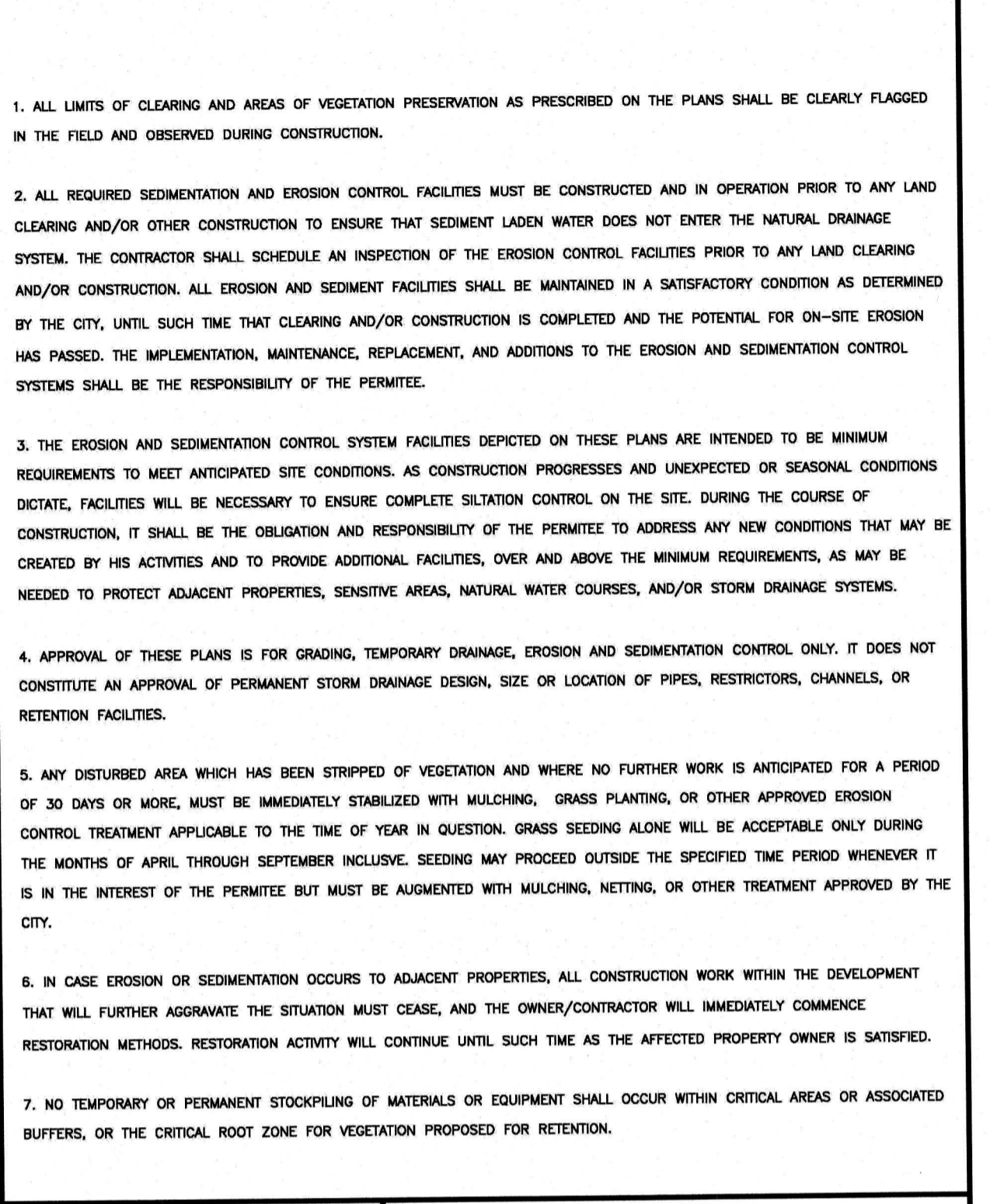
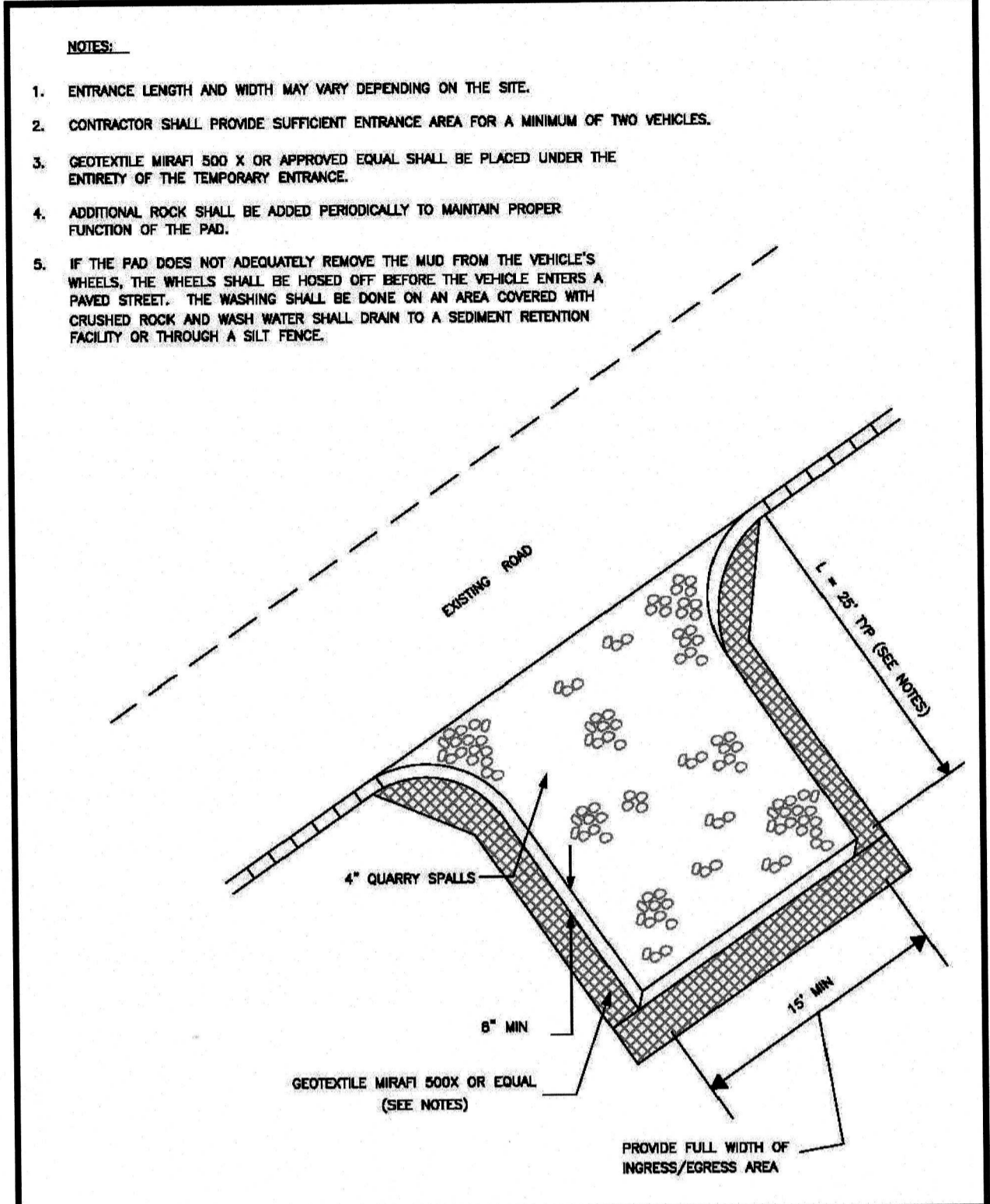
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Int.	
Revision:	
No.	



CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and
PUBLIC WORKS DEPARTMENTS

SILTATION FENCE

DESIGNED BY	DATE	CITY STANDARD
CHECKED BY	DATE	
APPROVED BY	DATE	
SCALE		
02.01.02		

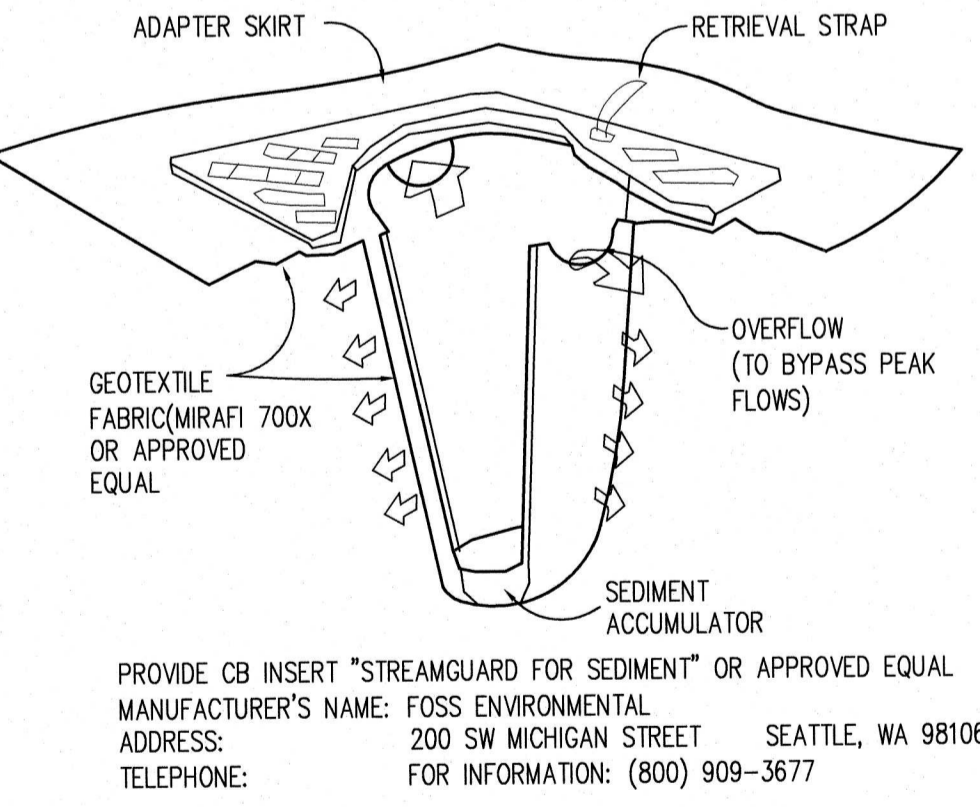
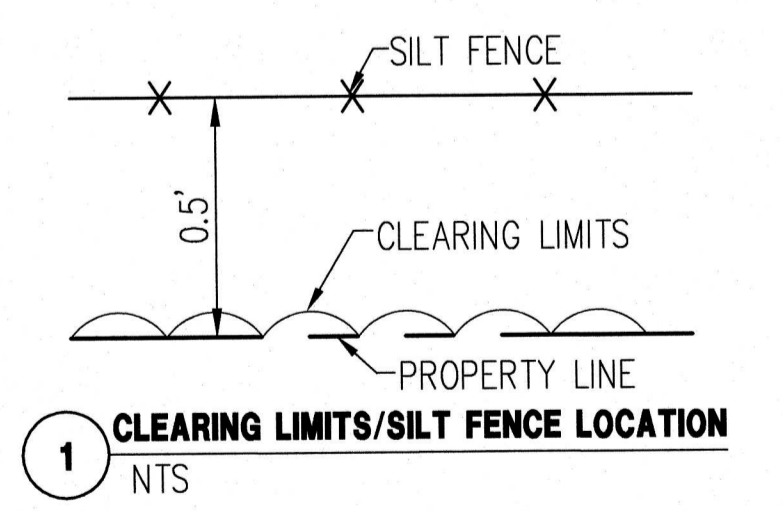


STORMWATER NOTES

- ALL WORK IN CITY RIGHT-OF-WAY REQUIRES A PERMIT FROM THE CITY OF PUYALLUP. PRIOR TO ANY WORK COMMENCING, THE GENERAL CONTRACTOR SHALL ARRANGE FOR A PRECONSTRUCTION MEETING AT THE DEVELOPMENT SERVICES CENTER TO BE ATTENDED BY ALL CONTRACTORS THAT WILL PERFORM WORK SHOWN ON THE ENGINEERING PLANS, REPRESENTATIVES FROM ALL APPLICABLE UTILITY COMPANIES, THE PROJECT OWNER AND APPROPRIATE CITY STAFF. CONTACT ENGINEERING SERVICES TO SCHEDULE THE MEETING (253) 841-5568. THE CONTRACTOR IS RESPONSIBLE TO HAVE THEIR OWN APPROVED SET OF PLANS AT THE MEETING.
- AFTER COMPLETION OF ALL ITEMS SHOWN ON THESE PLANS AND BEFORE ACCEPTANCE OF THE PROJECT, THE CONTRACTOR SHALL OBTAIN A "PUNCH LIST" PREPARED BY THE CITY'S INSPECTOR DETAILING REMAINING ITEMS OF WORK TO BE COMPLETED. ALL ITEMS OF WORK SHOWN ON THESE PLANS SHALL BE COMPLETED TO THE SATISFACTION OF THE CITY PRIOR TO ACCEPTANCE OF THE WATER SYSTEM AND PROVISION OF SANITARY SEWER SERVICE.
- ALL MATERIALS AND WORKMANSHIP SHALL CONFORM TO THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS"), WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, LATEST EDITION, UNLESS SUPERSEDED OR AMENDED BY THE CITY OF PUYALLUP CITY STANDARDS FOR PUBLIC WORKS ENGINEERING AND CONSTRUCTION (HEREINAFTER REFERRED TO AS THE "CITY STANDARDS").
- A COPY OF THESE APPROVED PLANS AND APPLICABLE CITY DEVELOPER SPECIFICATIONS AND DETAILS SHALL BE ON SITE DURING CONSTRUCTION.
- ANY REVISIONS MADE TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE DEVELOPER'S ENGINEER AND THE ENGINEERING SERVICES STAFF PRIOR TO ANY IMPLEMENTATION IN THE FIELD. THE CITY SHALL NOT BE RESPONSIBLE FOR ANY ERRORS AND/OR OMISSIONS ON THESE PLANS.
- THE CONTRACTOR SHALL HAVE ALL UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION. CALL (811) AT LEAST TWO WORKING DAYS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ANY STRUCTURE AND/OR OBSTRUCTION WHICH REQUIRE REMOVAL OR RELOCATION RELATING TO THIS PROJECT, SHALL BE DONE SO AT THE DEVELOPER'S EXPENSE.
- DURING CONSTRUCTION, ALL EXISTING AND NEWLY INSTALLED DRAINAGE STRUCTURES SHALL BE PROTECTED FROM SEDIMENTS.
- ALL STORM MANHOLES SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.01. FLOW CONTROL MANHOLE/OIL WATER SEPARATOR SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.06 AND 02.01.07.
- MANHOLE RING AND COVER SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.02.
- CATCH BASINS TYPE I SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.02 AND 02.01.03 AND SHALL BE USED ONLY FOR DEPTHS LESS THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CATCH BASINS TYPE II SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.04 AND SHALL BE USED FOR DEPTHS GREATER THAN 5 FEET FROM TOP OF THE GRATE TO THE INVERT OF THE STORM PIPE.
- CAST IRON OR DUCTILE IRON FRAME AND GRATE SHALL CONFORM TO CITY STANDARD DETAIL NO. 02.01.05. GRATE SHALL BE MARKED WITH "DRAINS TO STREAM". SOLID CATCH BASIN LIDS (SQUARE UNLESS NOTED AS ROUND) SHALL CONFORM TO WSDOT STANDARD PLAN B-30.20-04 (OLYMPIC FOUNDRY NO. SM60 OR EQUAL). VANED GRATES SHALL CONFORM TO WSDOT STANDARD PLAN B-30.30-03 (OLYMPIC FOUNDRY NO. SM60V OR EQUAL).
- STORMWATER PIPE SHALL BE ONLY PVC, CONCRETE, DUCTILE IRON, OR DUAL WALLED POLYPROPYLENE PIPE.
 - THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.
 - PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F879 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.
 - CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT LESS THAN 3.0 FEET.
 - DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.
 - POLYPROPYLENE PIPE (PP) SHALL BE DUAL WALLED, HAVE A SMOOTH INTERIOR AND EXTERIOR CORRUGATIONS AND MEET WSDOT 9-05.24(1). 12-INCH THROUGH 30-INCH PIPE SHALL MEET OR EXCEED ASTM F2736 AND AASHTO M330, TYPE S, TYPE D. 36-INCH THROUGH 60-INCH PIPE SHALL MEET OR EXCEED ASTM F2881 AND AASHTO M330, TYPE S, OR TYPE D. TESTING SHALL BE PER ASTM F1417. MINIMUM COVER OVER POLYPROPYLENE PIPE SHALL BE 3- FEET.
- TRENCHING, BEDDING, AND BACKFILL FOR PIPE SHALL CONFORM TO CITY STANDARD DETAIL NO. 06.01.01.
- STORM PIPE SHALL BE A MINIMUM OF 10 FEET AWAY FROM BUILDING FOUNDATIONS AND/OR ROOF LINES.
- ALL STORM DRAIN MAINS SHALL BE TESTED AND INSPECTED FOR ACCEPTANCE AS OUTLINED IN SECTION 406 OF THE CITY OF PUYALLUP SANITARY SEWER SYSTEM STANDARDS.
- ALL TEMPORARY SEDIMENTATION AND EROSION CONTROL MEASURES, AND PROTECTIVE MEASURES FOR CRITICAL AREAS AND SIGNIFICANT TREES SHALL BE INSTALLED PRIOR TO INITIATING ANY CONSTRUCTION ACTIVITIES.

**Table 4.7
Mulch Standards and Guidelines**

Mulch Material	Quality Standards	Application Rates	Remarks
Straw	Air-dried, free from undesirable seed and coarse material.	2"-3" thick; 5 bales per 1000 sf or 2-3 tons per acre	Cost-effective protection when applied with adequate thickness. Hand-application generally requires greater thickness than blown straw. The thickness of straw may be reduced by half when used in conjunction with seeding. In windy areas straw must be held in place by crimping, using a tackifier, or covering with netting. Blown straw always has to be held in place with a tackifier as even light winds will blow it away. Straw, however, has several deficiencies that should be considered when selecting mulch materials. It often introduces and/or encourages the propagation of weed species and it has no significant long-term benefits. Straw should be used only if mulches with long-term benefits are unavailable locally. It should also not be used within the ordinary high-water elevation of surface waters (due to flotation).
Hydromulch	No growth inhibiting factors.	Approx. 25-30 lbs per 1000 sf or 1500 - 2000 lbs per acre	Shall be applied with hydromulcher. Shall not be used without seed and tackifier unless the application rate is at least doubled. Fibers longer than about 3/4-inch clog hydromulch equipment. Fibers should be kept to less than 3/8 inch.
Composted Mulch and Compost	No visible water or dust during handling. Must be purchased from supplier with Solid Waste Handling Permit (unless exempt).	2" thick min.; approx. 100 tons per acre (approx. 800 lbs per yard)	More effective control can be obtained by increasing thickness to 3". Excellent mulch for protecting final grades until landscaping because it can be directly seeded or tilled into soil as an amendment. Composted mulch has a coarser size gradation than compost. It is more stable and practical to use in wet areas and during rainy weather conditions.
Chipped Site Vegetation	Average size shall be several inches. Gradations from fines to 6 inches in length for texture, variation, and interlocking properties.	2" minimum thickness	This is a cost-effective way to dispose of debris from clearing and grubbing, and it eliminates the problems associated with burning. Generally, it should not be used on slopes above approx. 10% because of its tendency to be transported by runoff. It is not recommended within 200 feet of surface waters. If seeding is expected shortly after mulch, the decomposition of the chipped vegetation may tie up nutrients important to grass establishment.
Wood-based Mulch	No visible water or dust during handling. Must be purchased from a supplier with a Solid Waste Handling Permit or one exempt from solid waste regulations.	2" thick; approx. 100 tons per acre (approx. 800 lbs per cubic yard)	This material is often called "hog or hogged fuel." It is usable as a material for Stabilized Construction Entrances (BMP C105) and as a mulch. The use of mulch ultimately improves the organic matter in the soil. Special caution is advised regarding the source and composition of wood-based mulches. Its preparation typically does not provide any weed seed control, so evidence of residual vegetation in its composition or known inclusion of weed plants or seeds should be monitored and prevented (or minimized).



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PUYALLUP DUPLEX - LOT 1

TESS - NOTES & DETAILS

Project:

Client:

Designed: ENO

Drawn: MRL

Checked: ENO

Scale: N.T.S.

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Sheet No.:

C2

P.O. BOX 7707, BONNEY LAKE, WA 98391

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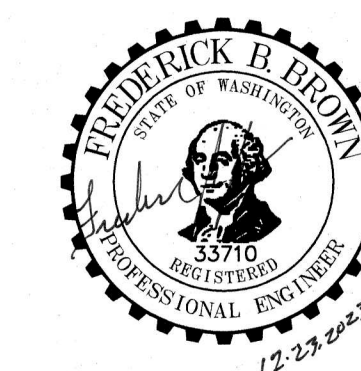
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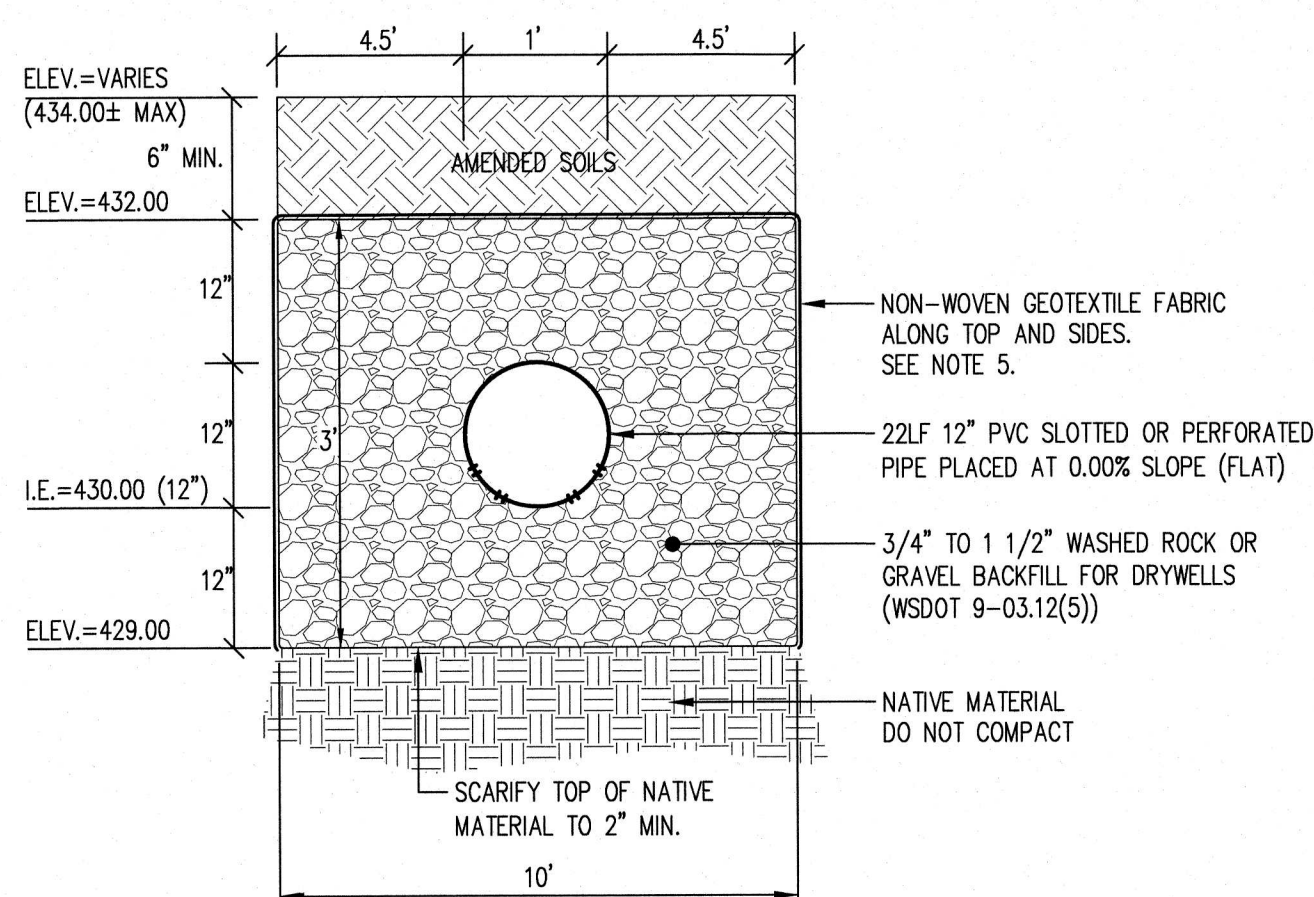
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C3

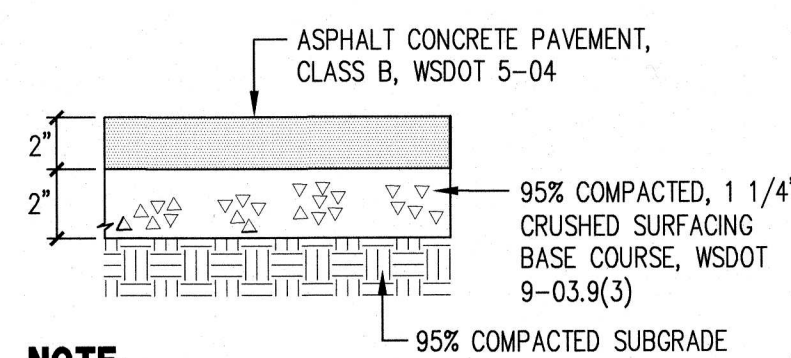


NOTES

- TRENCH BOTTOM SHALL BE A MINIMUM OF 1' ABOVE SEASONAL HIGH GROUNDWATER OR IMPERMEABLE SOIL LAYER.
- TRENCH SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 210.2.
- INFILTRATION TRENCH SHOULD NOT BE INSTALLED UNDER IMPERVIOUS SURFACES.
- CLEANOUT(S) SHALL BE INSTALLED IN ACCORDANCE WITH STD. DETAIL 02.01.09.
- NON-WOVEN GEOTEXTILE TO CONFORM TO WSDOT 9-33.2(1), TABLE 1 AND 2.

STORM INFILTRATION TRENCH

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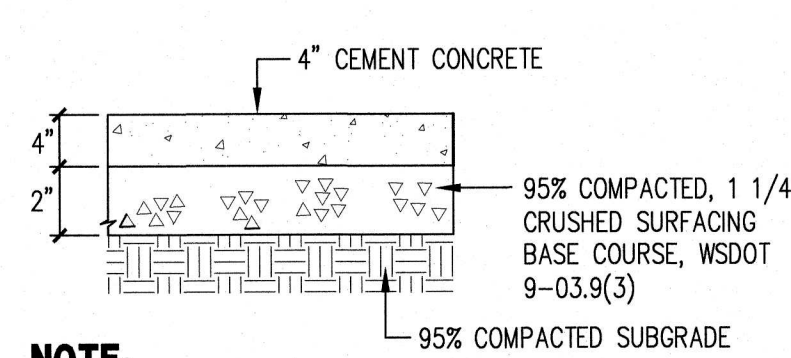


NOTE:

- DEPTHS ARE COMPACTED THICKNESS.

DRIVEWAY APPROACH SECTION

N.T.S.

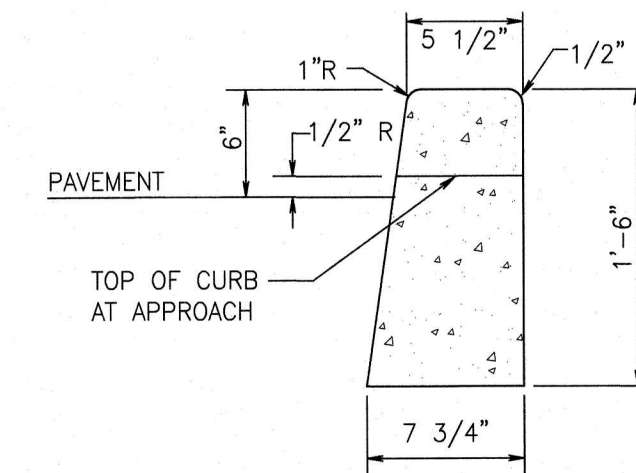


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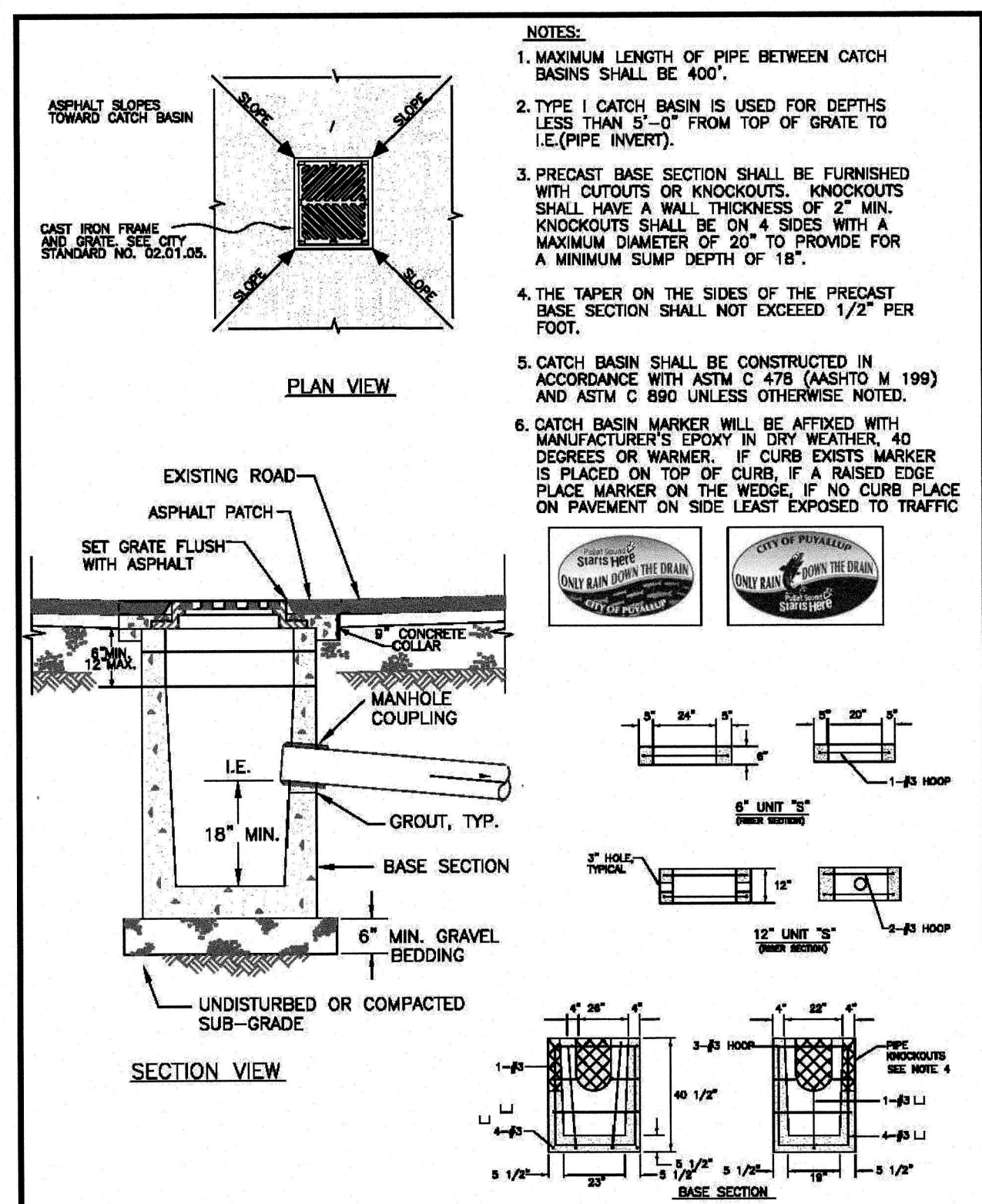
DRIVEWAY APRON SECTION

N.T.S.



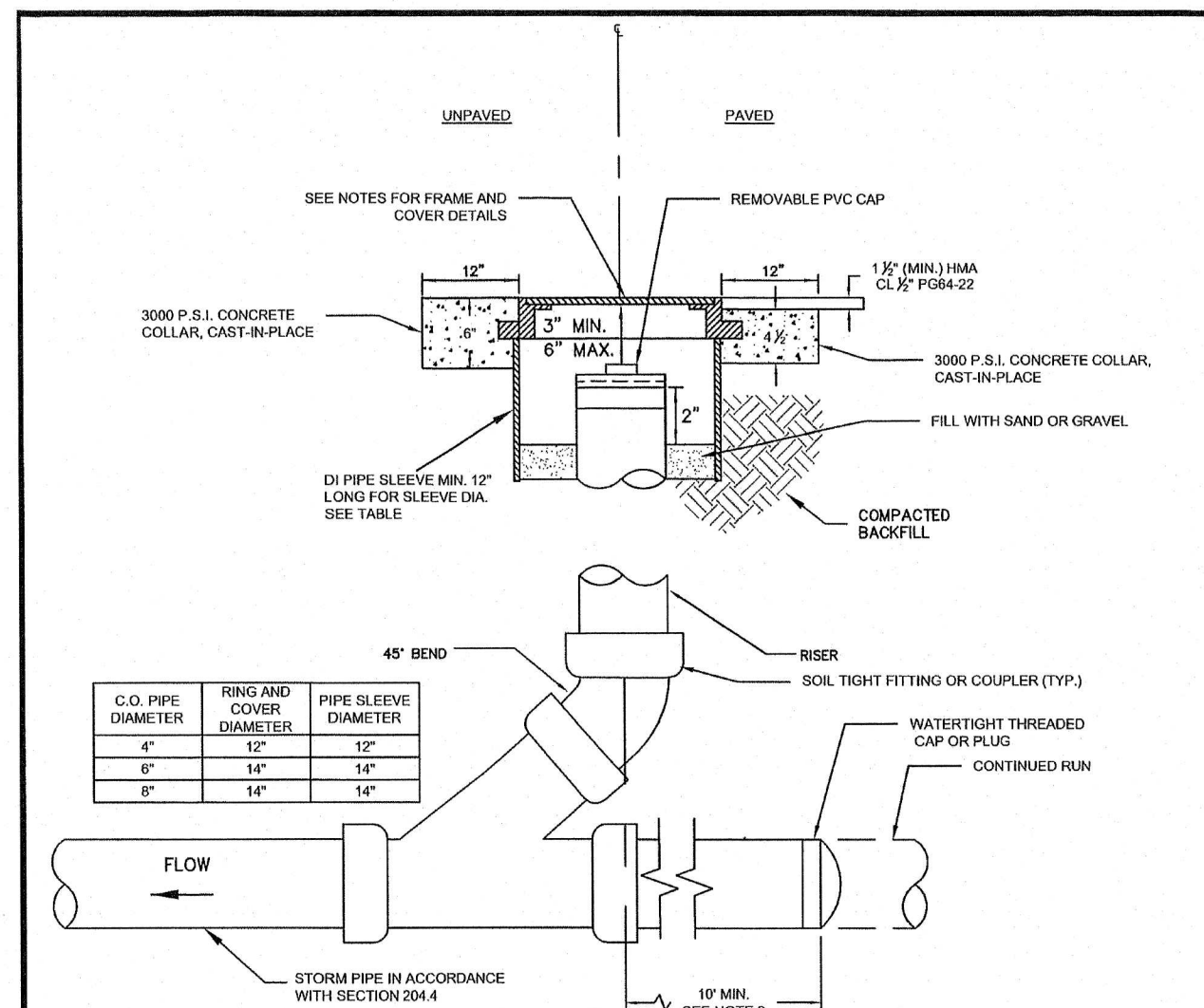
CEMENT CONCRETE VERTICAL CURB

N.T.S.



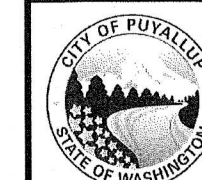
NOTES:

- MAXIMUM LENGTH OF PIPE BETWEEN CATCH BASINS SHALL BE 400'.
- TYPE 1 CATCH BASIN IS USED FOR DEPTHS LESS THAN 5'-0" FROM TOP OF GRATE TO I.E. (PIPE INVERT).
- PRECAST BASE SECTION SHALL BE FURNISHED WITH CUTOUPS OR KNOCKOUTS. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MIN. KNOCKOUTS SHALL BE ON 4 SIDES WITH A MAXIMUM DIAMETER OF 20" TO PROVIDE FOR A MINIMUM SUMP DEPTH OF 18".
- THE TAPER ON THE SIDES OF THE PRECAST BASE SECTION SHALL NOT EXCEED 1/2" PER FOOT.
- CATCH BASIN SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (ASHTO M 199) AND ASTM C 890 UNLESS OTHERWISE NOTED.
- CATCH BASIN MARKER WILL BE AFFIXED WITH MANUFACTURER'S EPOXY IN DRY WEATHER, 40 DEGREES OF WARMER. IF CURB EXISTS MARKER IS PLACED ON TOP OF CURB, IF A RAISED EDGE PLACE MARKER ON THE WEDGE, NO CURB PLACE ON PAVEMENT ON SIDE LEAST EXPOSED TO TRAFFIC.

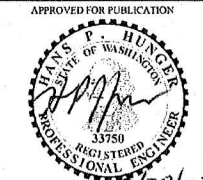


NOTES:

- CAST IRON COVER MARKED "TDCO" FOR FOOTING DRAINS OR "SDCO" FOR STORM LINES.
- CAST IRON FRAME AND COVER SHALL BE DRILLED AND TAPPED WITH 5/16" 11 NC STAINLESS STEEL TYPE 304 ALLEN HEAD BOLTS, 2" LONG.
- BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE 16-20 RATED IF USED IN RIGHT-OF-WAY OR EASEMENTS.
- 1/4" BOLT-LOCKING CAST IRON FRAME AND COVER SHALL BE EQUAL TO OLYMPIC FOUNDRY PART # M1060.
- CAST IRON FRAME AND COVER SHALL BE FLUSH WITH FINISHED GRADE.
- CLEANOUTS REQUIRED FOR EACH PIPE LENGTH GREATER THAN 100' AND FOR EACH 90 DEGREE BEND.
- STORM PIPE BEDDING AND BACKFILL SHALL CONFORM TO STD DETAIL 02.01.01.
- FINAL JOINTS SHALL BE SAW CUT, FACE OF CUT TACKED AND ALL JOINTS SEALED WITH SEALANT (AR4000).
- STORM DRAIN STUB SHALL EXTEND 10" BEYOND THE PROPERTY LINE OR EASEMENT LINE TO PREVENT DAMAGE AND MINIMIZE CONFLICT WITH FUTURE UTILITIES.
- EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTOR, (Ø18 x FEMALE INSIDE PIPE THREAD, PVC SLP IN), AND ONE CLEANOUT 1 PLUG (MALE OUTSIDE THREAD WITH RAISED NUT, PVC).
- FOR LANDSCAPED AREAS (OUTSIDE OF CITY ROW, EASEMENTS AND FACILITIES) A GREEN "CARDON" MODEL 810 YARD BOX MAY BE USED FOR C.O. PIPE DIA. LESS THAN OR EQUAL TO 16". YARD BOX SHALL BE FASTENED WITH 3/8" HEX BOLTS. THE COVER MARKED "STORM" AND FLUSH WITH FINISHED GRADE.

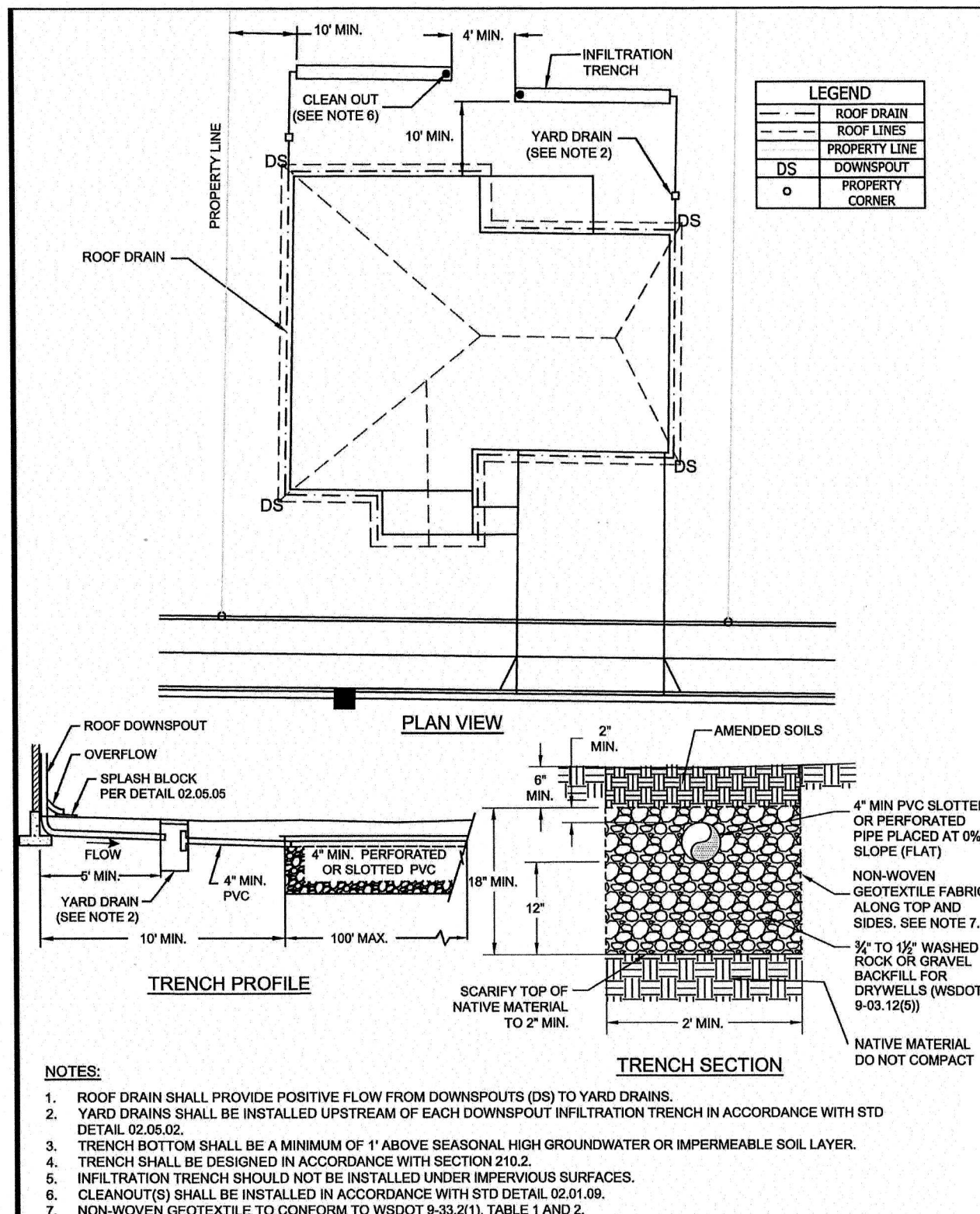


CITY OF PUYALLUP
PUBLIC WORKS AND DEVELOPMENT ENGINEERING



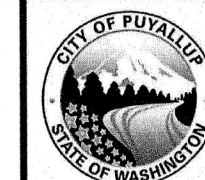
STORM DRAIN CLEANOUT

SCALE: 1" = 1'-0" DATE REVISION: 02/01/09 CITY: 200699

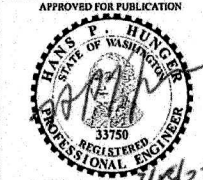


NOTES:

- ROOF DRAIN SHALL PROVIDE POSITIVE FLOW FROM DOWNSPOUTS (DS) TO YARD DRAINS.
- YARD DRAINS SHALL BE INSTALLED UPSTREAM OF EACH DOWNSPOUT INFILTRATION TRENCH IN ACCORDANCE WITH STD DETAIL 02.05.02.
- TRENCH BOTTOM SHALL BE A MINIMUM OF 1' ABOVE SEASONAL HIGH GROUNDWATER OR IMPERMEABLE SOIL LAYER.
- TRENCH SHALL BE DESIGNED IN ACCORDANCE WITH SECTION 210.2.
- INFILTRATION TRENCH SHOULD NOT BE INSTALLED UNDER IMPERVIOUS SURFACES.
- CLEANOUT(S) SHALL BE INSTALLED IN ACCORDANCE WITH STD DETAIL 02.01.09.
- NON-WOVEN GEOTEXTILE TO CONFORM TO WSDOT 9-33.2(1), TABLE 1 AND 2.

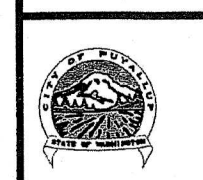
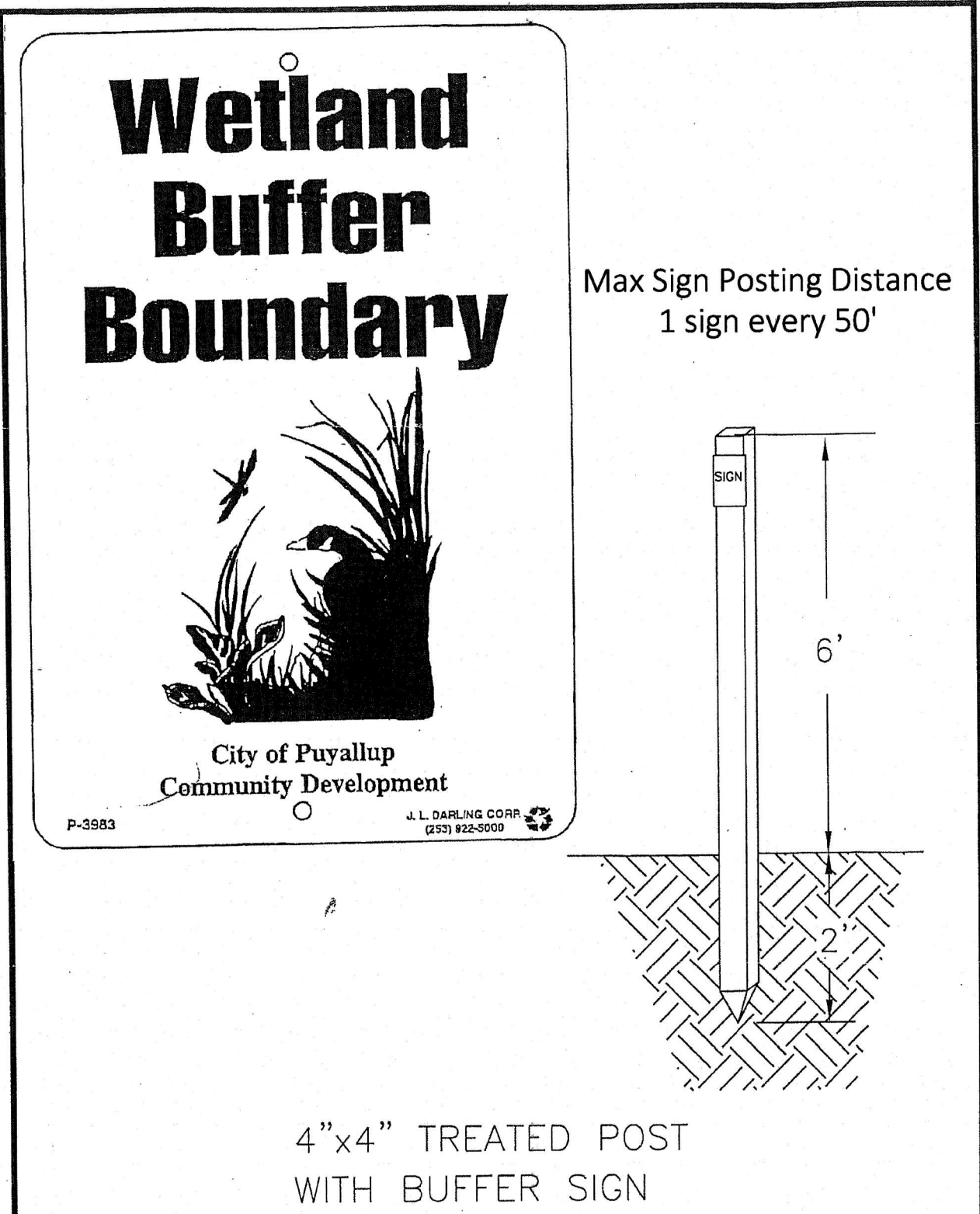


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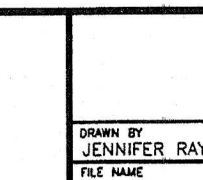


DOWNSPOUT INFILTRATION TRENCH

SCALE: 1" = 1'-0" DATE REVISION: 02/05/01 CITY: 200699



CITY OF PUYALLUP
COMMUNITY DEVELOPMENT DEPARTMENT



SIGN POSTING DETAIL

SCALE: 1" = 1'-0" DATE REVISION: 02/05/01 CITY: 200699

CALL 48 HOURS BEFORE YOU DIG DIAL 811