

# SEDDON STORAGE

## SITE DEVELOPMENT PLANS

A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M. PIERCE COUNTY, WASHINGTON

### PRIVATE IMPROVEMENTS

1027109  
PERMIT #

DEVELOPMENT ENGINEER

DATE

PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

1. A PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT DENNIS PATTERSON, THE AREA INSPECTOR, AT 253-798-2539.
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



### CONSTRUCTION SEQUENCE:

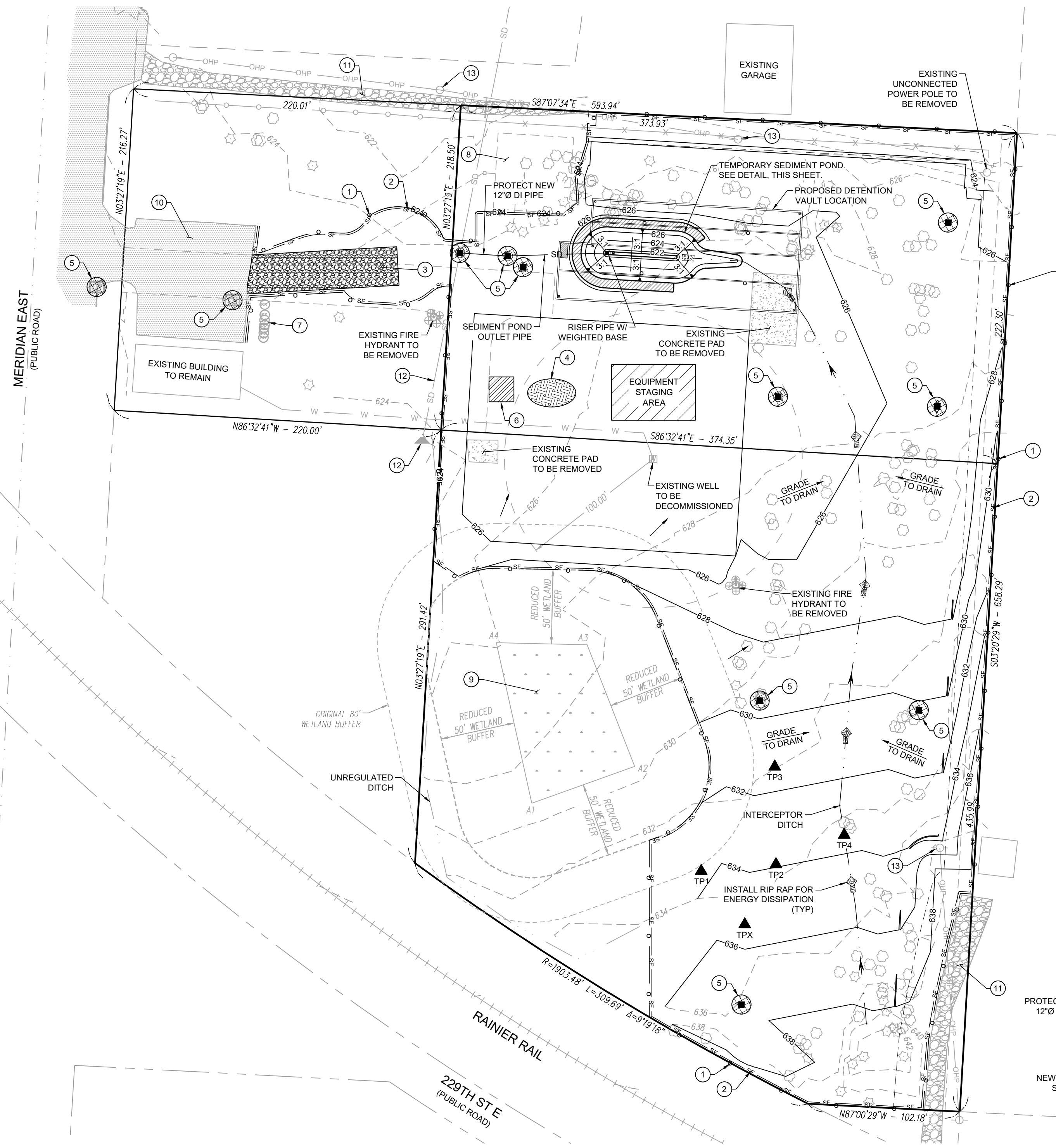
1. HOLD PRE-CONSTRUCTION MEETING WITH OWNER / OWNER'S REPRESENTATIVE, ENGINEER, CONTRACTOR, PIERCE COUNTY AND CERTIFIED EROSION AND SEDIMENT LEAD (CESL).
2. POST NOTICE OF CONSTRUCTION SIGN. POST A SIGN WITH NAME AND PHONE NUMBER OF CESL.
3. STAKE AND PROVIDE HIGH-VISIBILITY FENCE OR PROVIDE CONSTRUCTION FENCE / HIGH-VISIBILITY SILT FENCE AT CLEARING LIMITS AS SHOWN ON THE APPROVED PLANS. NO CONSTRUCTION ACTIVITIES SHALL TAKE PLACE OUTSIDE OF THESE CLEARING LIMITS UNLESS APPROVED BY PIERCE COUNTY.
4. PROVIDE TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AS SHOWN ON THE APPROVED PLANS. ADD QUARRY SPALLS AS REQUIRED SUCH THAT THE ENTRANCE IS ALWAYS IN ACCORDANCE WITH THE REQUIREMENTS OF PIERCE COUNTY.
5. PROVIDE PERIMETER PROTECTION (SILT FENCING, ETC.). PROVIDE SEDIMENT POND AND ASSOCIATED DRAINAGE DITCH.
6. PROVIDE CB #6, THE 54" DIAMETER PUMP STRUCTURE, AND ASSOCIATED PIPING CONVEYING FLOWS FROM SEDIMENT POND. PROTECT STRUCTURES AND PIPING THROUGHOUT CONSTRUCTION. PUMP TO BE INSTALLED LATER AT TIME OF VAULT INSTALLATION (NOT AT TIME OF PUMP STRUCTURE INSTALLATION).
7. CALL PIERCE COUNTY FOR INSPECTION NO. 1, INSTALLATION OF EROSION CONTROL FACILITIES PRIOR TO CLEARING.
8. CLEAR AND GRUB SITE. IF RETENTION IS NOT PRACTICAL, THEN STOCKPILE FILL ON-SITE, COVER IT TO PREVENT EROSION, AND REPLACE IT TO THE MAXIMUM EXTENT POSSIBLE AFTER AMENDMENT UPON COMPLETION OF SITE GRADING. THIS APPLIES TO ALL CLEARING AND GRUBBING ACTIVITIES.
9. CALL PIERCE COUNTY FOR INSPECTION NO. 2, COMPLETION OF CLEARING.
10. PROTECT ADJACENT PROPERTIES, WETLANDS, ROADWAYS AND RIGHTS-OF-WAY FROM THE TRANSPORT OF SEDIMENT. IF SEDIMENT IS TRANSPORTED TO NEIGHBORING ROADWAYS, THEY SHALL BE CLEANED THOROUGHLY AT THE END OF THE BUSINESS DAY BY SHOVELING OR SWEEPING.
11. MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH PIERCE COUNTY STANDARDS AND MANUFACTURER'S RECOMMENDATIONS. AS SITE CONDITIONS CHANGE, RELOCATE EROSION CONTROL MEASURES OR PROVIDE NEW MEASURES SO THAT, AS SITE CONDITIONS CHANGE, THE EROSION AND SEDIMENT CONTROL IS ALWAYS IN ACCORDANCE WITH PIERCE COUNTY EROSION AND SEDIMENT CONTROL STANDARDS.
12. SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN SEVEN (7) DAYS DURING THE DRY SEASON (MAY 1 TO SEPTEMBER 30) OR TWO (2) DAYS DURING THE WET SEASON (OCTOBER 1 TO APRIL 30) WITH STRAW, WOOD FIBER MULCH, COMPOST, PLASTIC SHEETING, OR EQUIVALENT. DISTURBED AREAS NOT RECEIVING HARD SURFACING IN THE FINAL AS-CONSTRUCTED CONDITION SHALL RECEIVE AMENDED SOILS AT THE TIME LANDSCAPING IS INSTALLED.
13. CONSTRUCT UTILITIES (WATER, SEPTIC, ETC.) UNDER PAVED AREAS AS REQUIRED.
14. PROJECT IS TO BEGIN EXCAVATION/CONSTRUCTION OF THE VAULT AREA AND INSTALL THE CONTROL RISER AS THE VAULT WILL BE UTILIZED FOR SEDIMENT CONTROL.
15. PROVIDE STORM CONVEYANCE SYSTEM AS SHOWN ON THE APPROVED PLANS. PROVIDE CATCH BASIN SEDIMENT PROTECTION OR SOLID LID ON NEWLY CONSTRUCTED DRAINAGE COLLECTING STRUCTURES.
16. CALL PIERCE COUNTY FOR INSPECTION NO.3, UPON COMPLETION OF EXCAVATION, FILLING AND EARTHWORK.
17. FORM AND POUR CONCRETE FOUNDATIONS.
18. PROVIDE ASPHALT SURFACING, CURBING, AND ASPHALT WALKWAY AS INDICATED ON THE APPROVED PLANS.
19. PROVIDE REMAINING ON-SITE AND OFF-SITE IMPROVEMENTS (LANDSCAPING, FENCING, STOP SIGN RELOCATION, ETC.).
20. CALL PIERCE COUNTY FOR INSPECTION NO. 4 AT COMPLETION OF PROJECT TO DETERMINE COMPLIANCE WITH APPROVED PLANS AND/OR SPECIFICATIONS.
21. UPON COMPLETION OF THE PROJECT AND APPROVAL BY PIERCE COUNTY, STABILIZE ALL REMAINING DISTURBED AREAS AND REMOVE BMPs AS APPROPRIATE.

### GEOTECHNICAL NOTES:

1. A PRE-CONSTRUCTION MEETING IS REQUIRED WITH GEOTECHNICAL STAFF.
2. CONSTRUCTION MONITORING MEETINGS ARE RECOMMENDED AT KEY POINTS DURING CONSTRUCTION:
  - A. SUBGRADE BASAL SURFACE PREPARATION
  - B. PROOF ROLL OF CONSTRUCTED SUBGRADE AGGREGATE

### TESC LEGEND

- CLEARING LIMITS
- TOPSOIL STOCKPILE (1/4)
- INLET PROTECTION (2/4)
- SF — SILT FENCE (4/4)
- CONSTRUCTION ENTRANCE (5/4)
- CONCRETE WASHOUT AREA
- EQUIPMENT STAGING AREA



### SOIL LOGS:

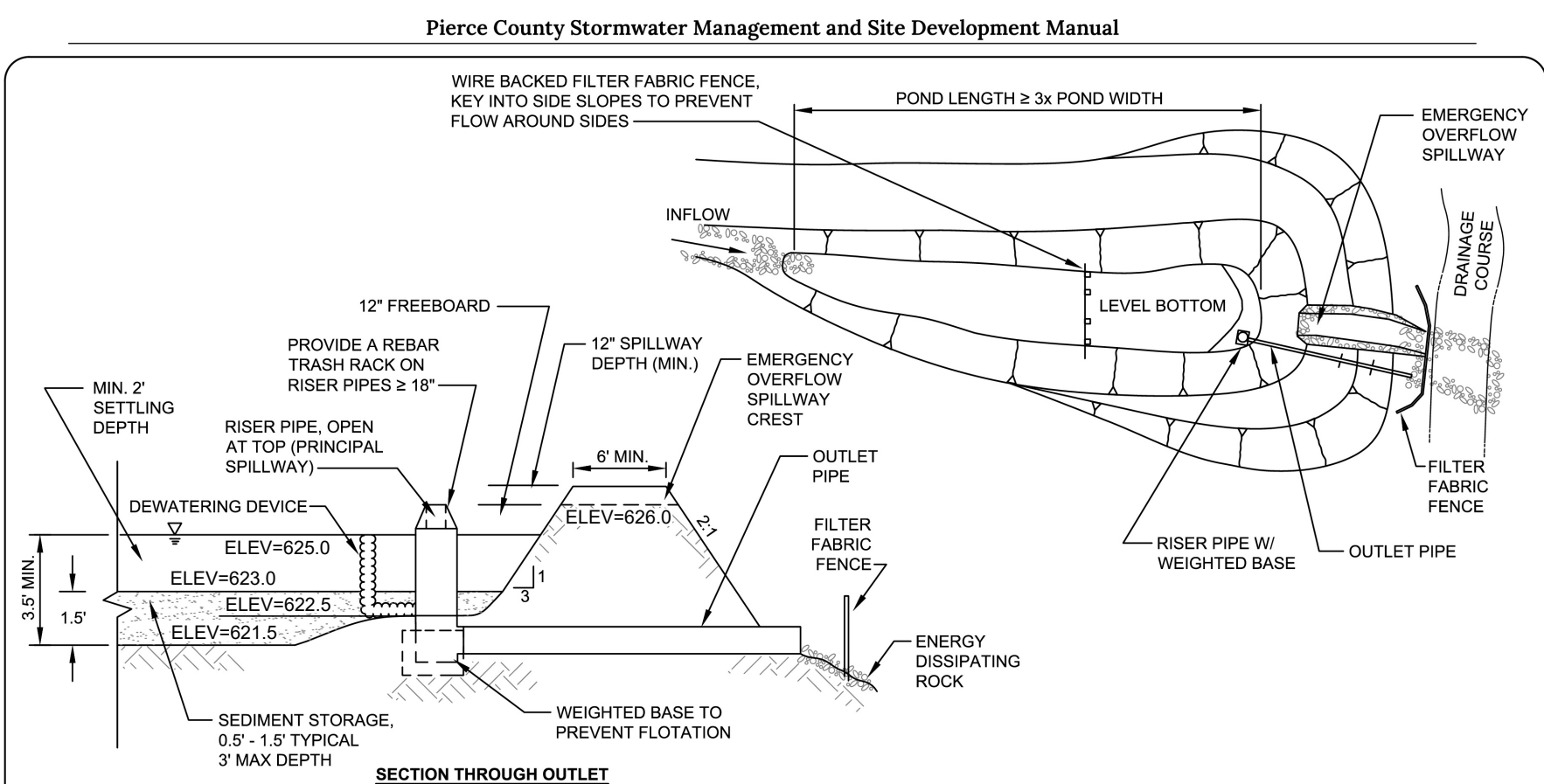
BY: BILL CREVELING, DATE: 8/29/18

SL1 0' - 28' 28" - 38" 38"+	BROWN GRAVELLY SANDY LOAM, ROOTS TAN/GRAY GRAVELLY SANDY LOAM, MOTTLED TILL
SL2 0' - 23' 23" - 33" 33"+	BROWN GRAVELLY SANDY LOAM, ROOTS TAN/GRAY GRAVELLY SANDY LOAM, MOTTLED TILL
SL3 0' - 17' 17" - 28" 28"+	BROWN GRAVELLY SANDY LOAM, ROOTS TAN/GRAY GRAVELLY SANDY LOAM, MOTTLED TILL
SL4 0' - 18' 18" - 34" 34"+	BROWN GRAVELLY SANDY LOAM, ROOTS TAN/GRAY GRAVELLY SANDY LOAM, MOTTLED TILL
SLX 0' - 15' 15" - 24" 24"+	BROWN GRAVELLY SANDY LOAM, ROOTS TAN/GRAY GRAVELLY SANDY LOAM, MOTTLED TILL

### TESC KEYNOTES:

1. CLEARING / WORK LIMITS (TYP)
2. SILT FENCE (TYP)
3. CONSTRUCTION ENTRANCE AND QUARRY SPALLS AS REQUIRED
4. TOPSOIL STOCKPILE
5. INLET PROTECTION (TYP)
6. CONCRETE WASHOUT AREA. ENSURE THAT WASHOUT OF CONCRETE TRUCKS IS PERFORMED OFF-SITE OR IN DESIGNATED CONCRETE WASHOUT AREAS ONLY.
7. PRESERVE AND PROTECT EXISTING SEPTIC LIDS (TYP)
8. PRESERVE AND PROTECT EXISTING SEPTIC DRAINFIELD AND APPURTENANCES
9. PRESERVE AND PROTECT EXISTING WETLAND AND BUFFER AREA
10. PRESERVE AND PROTECT EXISTING ASPHALT
11. PRESERVE AND PROTECT EXISTING GRAVEL DRIVE
12. PRESERVE AND PROTECT EXISTING STORM PIPE / CULVERT
13. PRESERVE AND PROTECT EXISTING POWER POLE

GRADING LIMITS TO BE A MINIMUM OF 2 FEET FROM PROPERTY LINES (TYP)

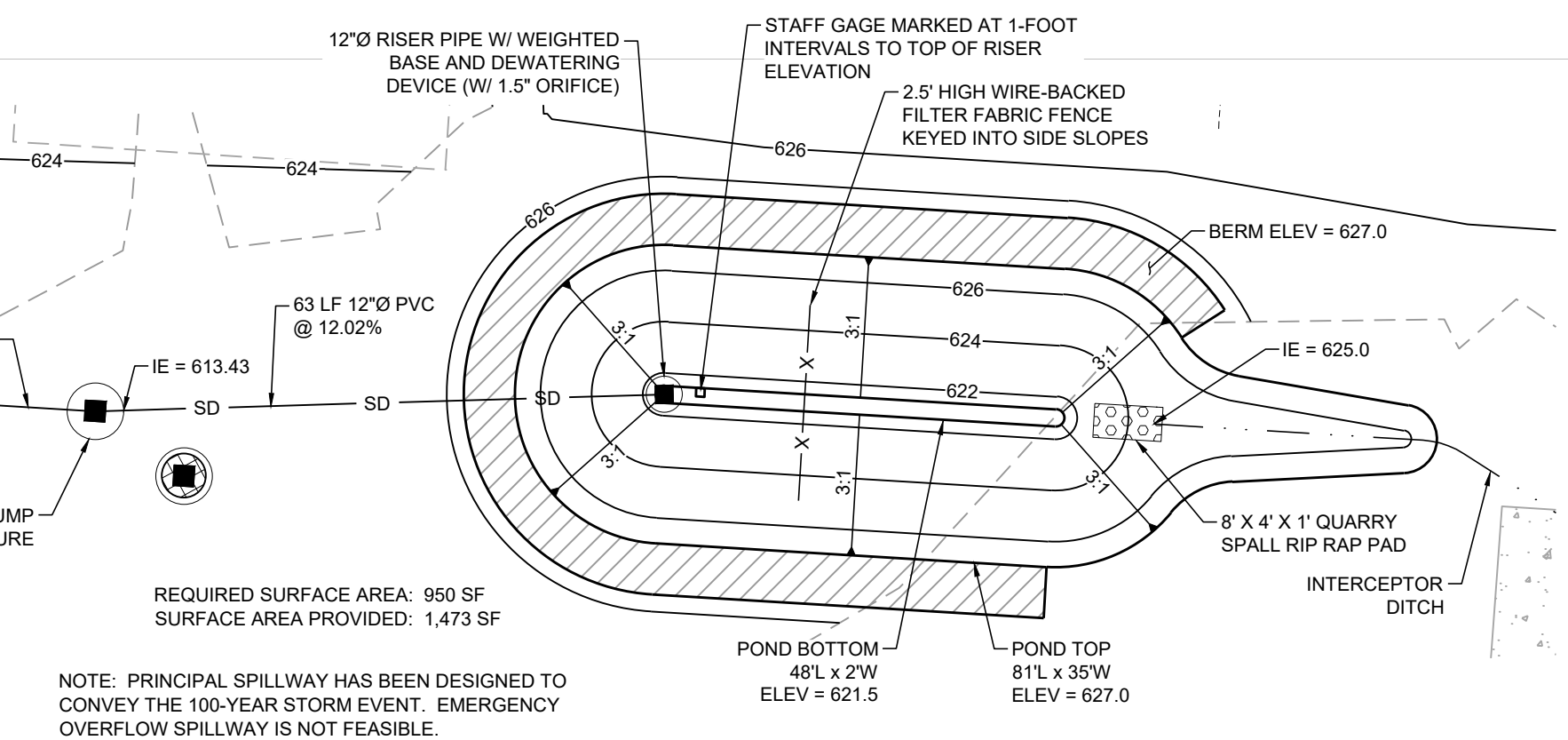


Pierce County  
Planning and Public Works  
2401 S 35th St.  
Tacoma, Washington 98409

### SEDIMENT POND - EXAMPLE

SECTION C - 5.0

ORDINANCE: 2021-45  
EFFECTIVE DATE: 7/1/2021



1 TEMPORARY SEDIMENT POND  
SCALE: 1" = 20'

NOTE: PRINCIPAL SPILLWAY HAS BEEN DESIGNED TO CONVEY THE 100-YEAR STORM EVENT. EMERGENCY OVERFLOW SPILLWAY IS NOT FEASIBLE.

BEFORE ANY CONSTRUCTION CONTACT:  
CALL BEFORE YOU DIG @ 1-800-424-5555

T.E.S.C. & Rough Grading Plan



**SEDDON STORAGE**  
RICK & DOREEN SEDDON  
13613 MERIDIAN AVENUE EAST, SUITE 210  
PUYALLUP, WA 98373  
Phone: (253) 279-1986

### DRAWING

**C3**  
SHEET 03  
OF 20

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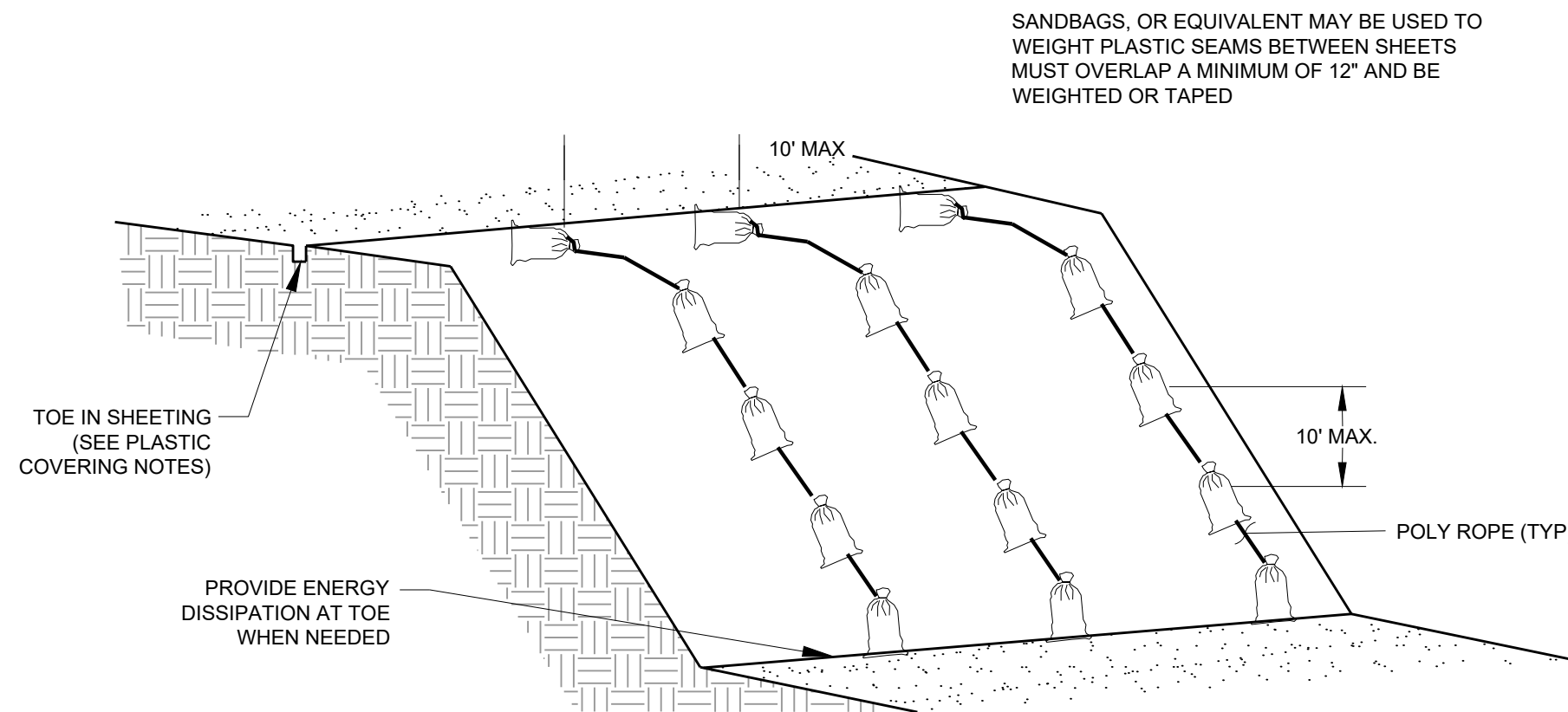
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### SOIL STOCKPILE NOTES:

- STOCKPILES SHALL BE STABILIZED (WITH PLASTIC COVERING OR OTHER APPROVED DEVICE) DAILY BETWEEN OCTOBER 1 AND APRIL 30.
  - IN ANY SEASON, SEDIMENT LEACHING FROM STOCK PILES MUST BE PREVENTED.
  - TOPSOIL SHALL NOT BE PLACED WHILE IN A FROZEN OR MUDDY CONDITION, WHEN THE SUBGRADE IS EXCESSIVELY WET, OR WHEN CONDITIONS EXIST THAT MAY OTHERWISE BE DETRIMENTAL TO PROPER GRADING OR PROPOSED SODDING OR SEEDING.
  - PREVIOUSLY ESTABLISHED GRADES ON THE AREAS TO BE TOPSOILED SHALL BE MAINTAINED ACCORDING TO THE APPROVED PLAN.
- STOCKPILES MUST BE LOCATED MORE THAN 50 FEET FROM ALL DRAINAGE FEATURES.

### PLASTIC COVERING NOTES:

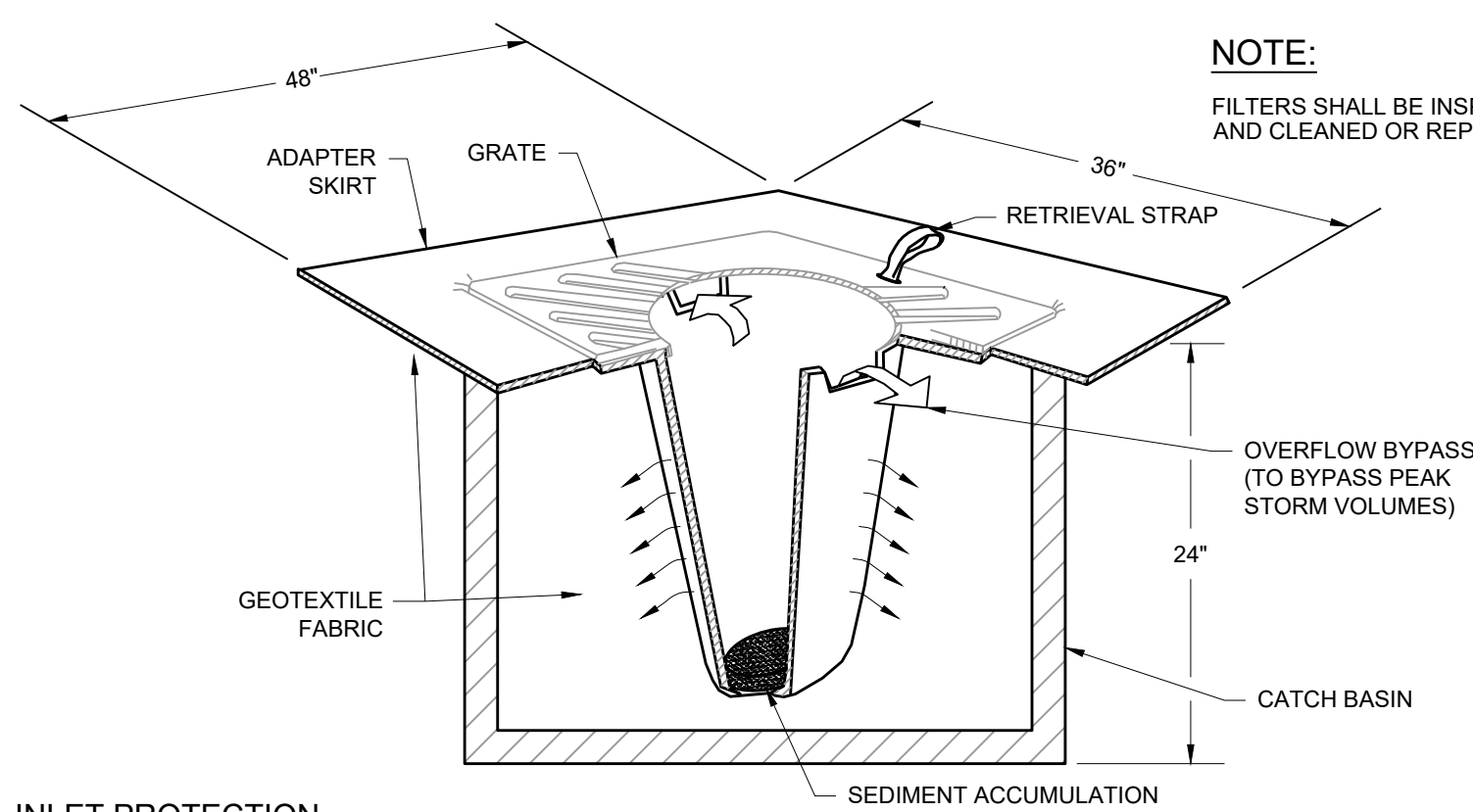
- PLASTIC SHEETING SHALL HAVE A MINIMUM THICKNESS OF 6 MILS AND SHALL MEET THE REQUIREMENTS OF THE STATE STANDARD SPECIFICATIONS SECTION 9-14.5.
  - COVERING SHALL BE INSTALLED AND MAINTAINED TIGHTLY IN PLACE BY USING SANDBAGS OR TIRES ON ROPES WITH A MAXIMUM 10-FOOT GRID SPACING IN ALL DIRECTIONS. ALL SEAMS SHALL BE TAPED OR WEIGHTED DOWN FULL LENGTH AND THERE SHALL BE A LEAST A 12 INCH OVERLAP OF ALL SEAMS.
  - CLEAR PLASTIC COVERING SHALL BE INSTALLED IMMEDIATELY ON AREAS SEEDED BETWEEN NOVEMBER 1 AND MARCH 31 AND REMAIN UNTIL VEGETATION IS FIRMLY ESTABLISHED.
  - WHEN THE COVERING IS USED ON UN-SEEDED SLOPES, IT SHALL BE KEPT IN PLACE UNTIL THE NEXT SEEDING PERIOD.
  - PLASTIC COVERING SHEETS SHALL BE BURIED TWO FEET AT THE TOP OF SLOPES IN ORDER TO PREVENT SURFACE WATER FLOW BENEATH SHEETS.
- PROPER MAINTENANCE INCLUDES REGULAR CHECKS FOR RIPS AND DISLODGED ENDS.

### STANDARD SILT FENCE NOTES:

- THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATIONS SHOWN IN THE PLANS.
- CONSTRUCT SILT FENCES IN AREAS OF CLEARING, GRADING, OR DRAINAGE PRIOR TO STARTING THOSE ACTIVITIES.
- THE SILT FENCE SHALL HAVE A 2 FEET MIN. AND 2.5 FEET MAX. HEIGHT ABOVE THE ORIGINAL GROUND SURFACE.
- THE FILTER FABRIC SHALL BE SEWN TOGETHER AT THE POINT OF MANUFACTURE TO FORM FILTER FABRIC LENGTHS AS REQUIRED. LOCATE ALL SEWN SEAMS AT SUPPORT POSTS. ALTERNATIVELY, TWO SECTIONS OF SILT FENCE CAN BE OVERLAPPED, PROVIDED THE CONTRACTOR CAN DEMONSTRATE, TO THE SATISFACTION OF THE ENGINEER, THAT THE OVERLAP IS LONG ENOUGH AND THAT THE ADJACENT FENCE SECTIONS ARE CLOSE ENOUGH TOGETHER TO PREVENT SILT LADEN WATER FROM ESCAPING THROUGH THE FENCE AT THE OVERLAP.
- ATTACH THE FILTER FABRIC ON THE UP-SLOPE SIDE OF THE POSTS AND SECURE WITH STAPLES, WIRE, OR IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS. ATTACH THE FILTER FABRIC TO THE POSTS IN A MANNER THAT REDUCES THE POTENTIAL FOR TEARING.
- SUPPORT THE FILTER FABRIC WITH WIRE OR PLASTIC MESH, DEPENDENT ON THE PROPERTIES OF THE GEOTEXTILE SELECTED FOR USE. IF WIRE OR PLASTIC MESH IS USED, FASTEN THE MESH SECURELY TO THE UP-SLOPE SIDE OF THE POSTS WITH THE FILTER FABRIC UP-SLOPE OF THE MESH.
- MESH SUPPORT, IF USED, SHALL CONSIST OF STEEL WIRE WITH A MAXIMUM MESH SPACING OF 2 INCHES, OR A PREFABRICATED POLYMERIC MESH. THE STRENGTH OF THE WIRE OR POLYMERIC MESH SHALL BE EQUIVALENT TO OR GREATER THAN 180 POUNDS GRAB TENSILE STRENGTH. THE POLYMERIC MESH MUST BE AS RESISTANT TO THE SAME LEVEL OF ULTRAVIOLET RADIATION AS THE FILTER FABRIC IT SUPPORTS.
- BURY THE BOTTOM OF THE FILTER FABRIC 8 INCHES MIN. BELOW THE GROUND SURFACE. BACKFILL AND TAMP SOIL IN PLACE OVER THE BURIED PORTION OF THE FILTER FABRIC, SO THAT NO FLOW CAN PASS BENEATH THE FENCE AND SCOURING CANNOT OCCUR. THE WIRE OR POLYMERIC MESH SHALL EXTEND INTO THE GROUND 3 INCHES MIN.
- DRIVE OR PLACE THE FENCE POSTS INTO THE GROUND 18 INCHES MINIMUM. A 12-INCH MINIMUM DEPTH IS ALLOWED IF TOPSOIL OR OTHER SOFT SUBGRADE SOIL IS NOT PRESENT AND 18 INCHES CANNOT BE REACHED. INCREASE FENCE POST MIN. DEPTHS BY 6 INCHES IF THE FENCE IS LOCATED ON SLOPES OF 3H:1V OR STEEPER AND THE SLOPE IS PERPENDICULAR TO THE FENCE. IF REQUIRED POST DEPTHS CANNOT BE OBTAINED, THE POSTS SHALL BE ADEQUATELY SECURED BY BRACING OR GUYING TO PREVENT OVERTURNING OF THE FENCE DUE TO SEDIMENT LOADING.
- USE WOOD, STEEL, OR EQUIVALENT POSTS. THE SPACING OF THE SUPPORT POSTS SHALL BE A MAXIMUM OF 6 FEET. POSTS SHALL CONSIST OF EITHER:
  - WOOD WITH DIMENSIONS OF 2-INCHES BY 2-INCHES WIDE MIN. AND A 3-FOOT MIN. LENGTH. WOOD POSTS SHALL BE FREE OF DEFECTS SUCH AS KNOTS, SPLITS, OR GOUGES.
  - NO. 6 STEEL REINFORCEMENT BAR OR LARGER.
  - ASTM A 120 STEEL PIPE WITH A MINIMUM DIAMETER OF 1 INCH.
  - U, T, L, OR C SHAPE STEEL POSTS WITH A MINIMUM WEIGHT OF 1.35 POUNDS/FEET.
  - OTHER STEEL POSTS HAVING EQUIVALENT STRENGTH AND BENDING RESISTANCE TO THE POST SIZES LISTED ABOVE.
- LOCATE SILT FENCES ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE, WHERE THE FENCE SHALL BE TURNED UPHILL SUCH THAT THE SILT FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.
- IF THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE ENDS OF THE FENCE, PLACE GRAVEL CHECK DAMS PERPENDICULAR TO THE BACK OF THE FENCE TO MINIMIZE CONCENTRATED FLOW AND EROSION. THE SLOPE OF THE FENCE LINE WHERE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3H:1V.
  - GRAVEL CHECK DAMS SHALL BE APPROXIMATELY 1 FOOT DEEP AT THE BACK OF THE FENCE. GRAVEL CHECK DAMS SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERCEPTS THE GROUND SURFACE BEHIND THE FENCE.
  - GRAVEL CHECK DAMS SHALL CONSIST OF CRUSHED SURFACING BASE COURSE, GRAVEL BACKFILL FOR WALLS, OR SHOULDER BALLAST. GRAVEL CHECK DAMS SHALL BE LOCATED EVERY 10 FEET ALONG THE FENCE WHERE THE FENCE MUST CROSS CONTOURS.
- SILT FENCE INSTALLATION USING THE SLICING METHOD SPECIFICATION DETAILS FOLLOW:
  - THE BASE OF BOTH END POSTS MUST BE AT LEAST 2 TO 4 INCHES ABOVE THE TOP OF THE FILTER FABRIC ON THE MIDDLE POSTS FOR DITCH CHECK DAMS TO DRAIN PROPERLY. USE A HAND LEVEL OR STRING LEVEL, IF NECESSARY, TO MARK BASE POINTS BEFORE INSTALLATION.
  - INSTALL POSTS 3 TO 4 FEET APART IN CRITICAL RETENTION AREAS AND 6 TO 7 FEET APART IN STANDARD APPLICATIONS. INSTALL POSTS 24 INCHES DEEP ON THE DOWNSTREAM SIDE OF THE SILT FENCE, AND AS CLOSE AS POSSIBLE TO THE FILTER FABRIC, ENABLING POSTS TO SUPPORT THE FILTER FABRIC FROM UPSTREAM WATER PRESSURE.
  - INSTALL POSTS WITH THE NIPPLES FACING AWAY FROM THE FILTER FABRIC.
  - ATTACH THE FILTER FABRIC TO EACH POST WITH THREE TIES, ALL SPACED WITHIN THE TOP 8 INCHES OF THE FILTER FABRIC. ATTACH EACH TIE DIAGONALLY 45 DEGREES THROUGH THE FILTER FABRIC, WITH EACH PUNCTURE AT LEAST 1 INCH VERTICALLY APART. EACH TIE SHOULD BE POSITIONED TO HANG ON A POST NIPPLE WHEN TIGHTENING TO PREVENT SAGGING.
  - WRAP APPROXIMATELY 6 INCHES OF FABRIC AROUND THE END POSTS AND SECURE WITH THREE TIES.
  - NO MORE THAN 24 INCHES OF A 36-INCH FILTER FABRIC IS ALLOWED ABOVE GROUND LEVEL. 12 INCHES MUST BE BURIED.
  - COMPACT THE SOIL IMMEDIATELY NEXT TO THE FILTER FABRIC WITH THE FRONT WHEEL OF THE TRACTOR, SKID STEER, OR ROLLER EXERTING AT LEAST 60 POUNDS PER SQUARE INCH. COMPACT THE UPSTREAM SIDE FIRST AND THEN EACH SIDE TWICE FOR A TOTAL OF FOUR CHECK AND CORRECT THE SILT FENCE INSTALLATION FOR ANY DEVIATION BEFORE COMPACTION. USE A FLAT-BLADED SHOVEL TO TUCK FABRIC DEEPER INTO THE GROUND IF NECESSARY.

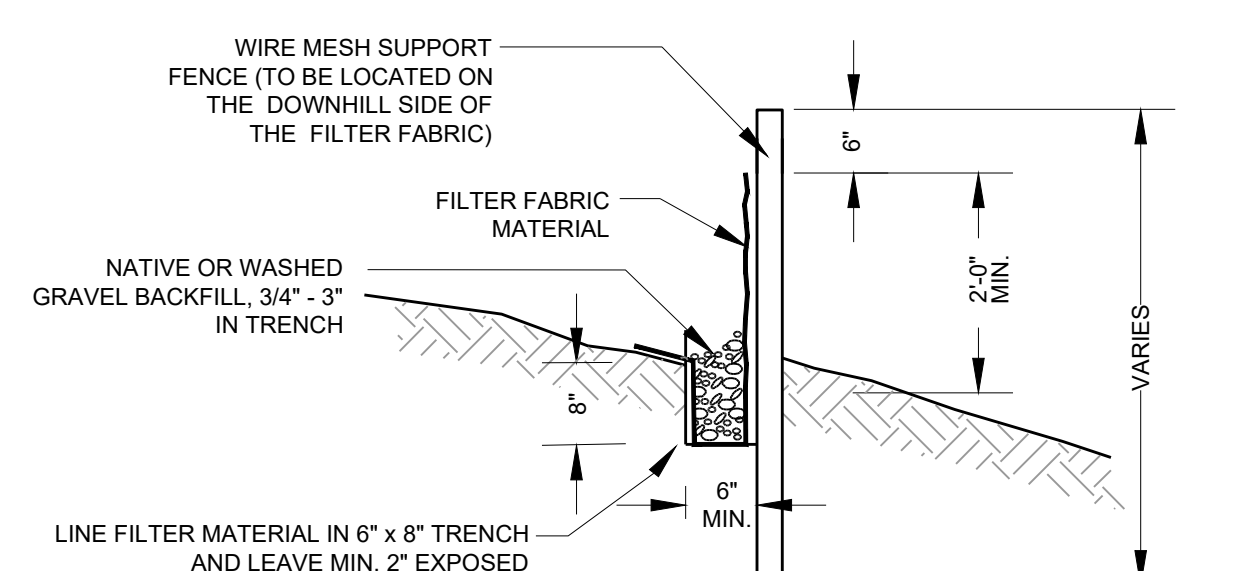
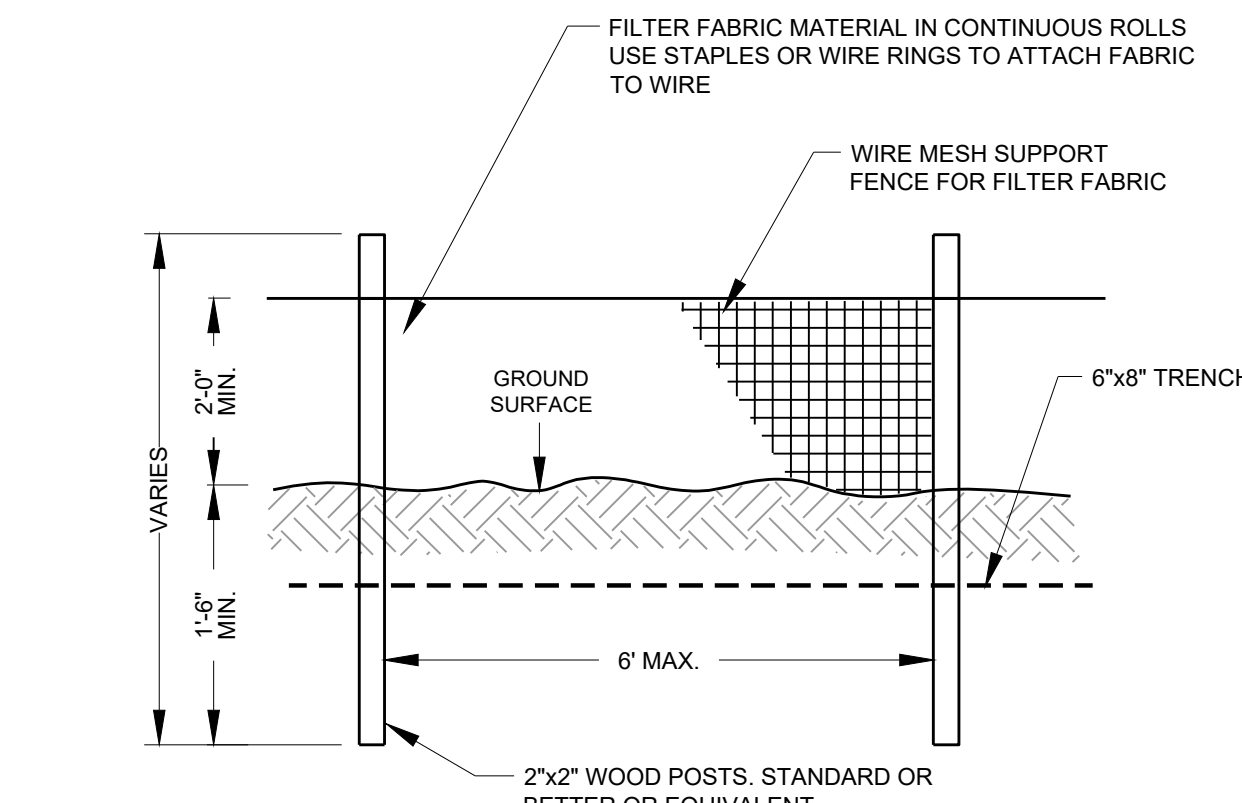
### 1 TOPSOIL STOCKPILE DETAIL

SCALE: NTS



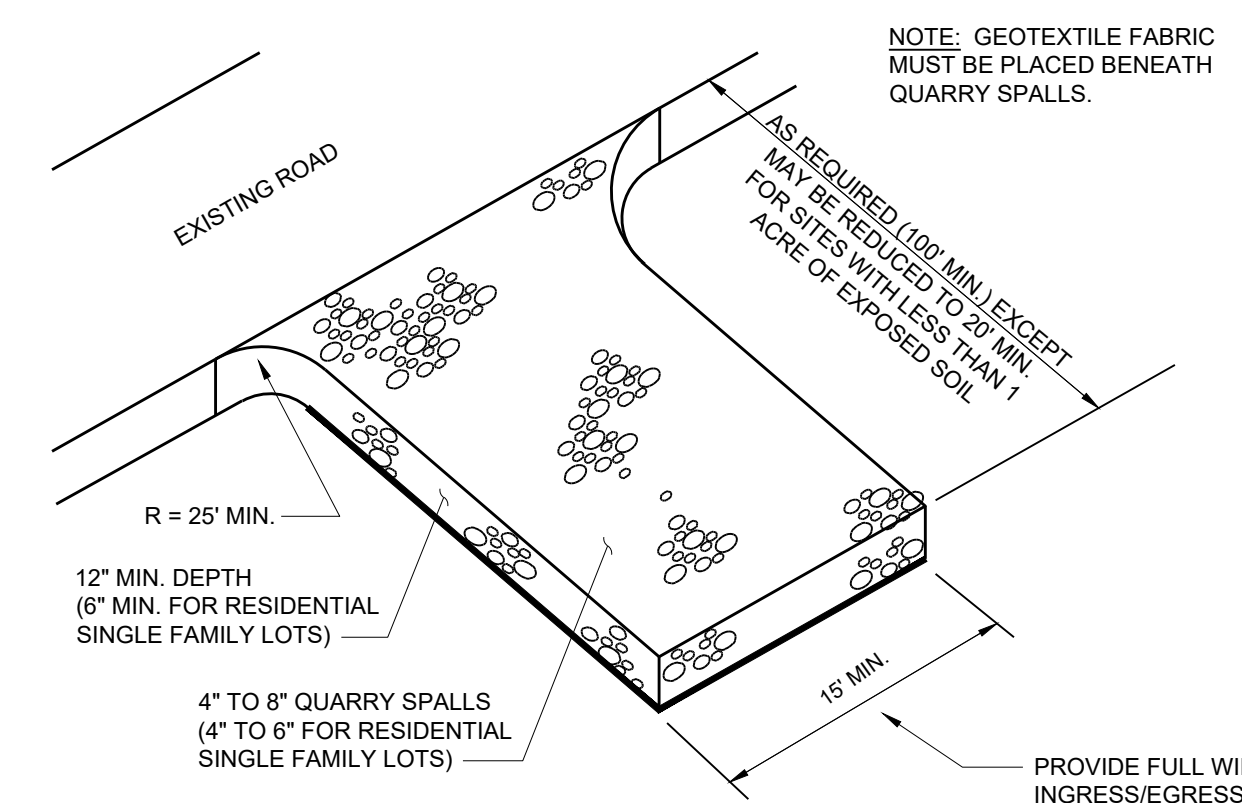
### 2 INLET PROTECTION

SCALE: NTS



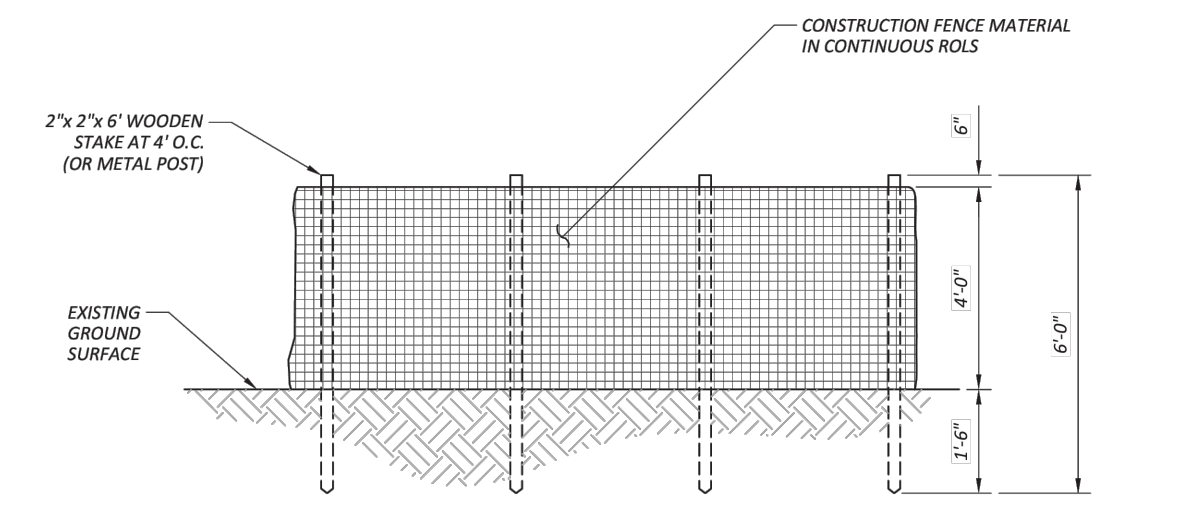
### 4 SILT FENCE DETAIL

SCALE: NTS



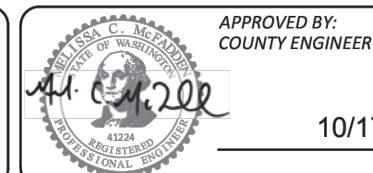
### 5 CONSTRUCTION ENTRANCE ROCK PAD

SCALE: NTS



### 3 CONSTRUCTION FENCING

SCALE: NTS



APPROVED BY: COUNTY ENGINEER

10/17/2022  
DATE

CONSTRUCTION FENCE

STANDARD DRAWING PC.L1

(NOT TO SCALE)

BEFORE ANY CONSTRUCTION CONTACT:  
CALL BEFORE YOU DIG @ 1-800-424-5555

T.E.S.C. Notes & Details

SEDDON STORAGE  
RICK & DOREEN SEDDON  
13813 MERIDIAN AVENUE EAST, SUITE 210  
PUYALLUP, WA 98373  
Phone: (253) 279-1986



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DRAWING

C4  
SHEET 04  
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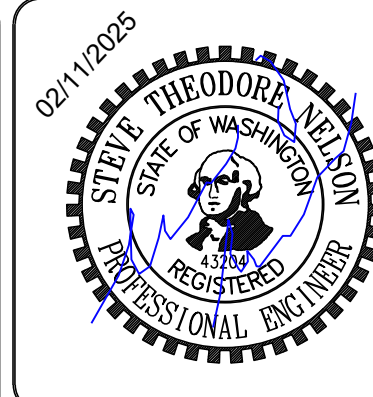
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### AMENDED SOIL NOTES:

#### IMPLEMENTATION OPTIONS

THE SOIL QUALITY DESIGN REQUIREMENTS CAN BE MET BY USING ONE OF THE FOUR OPTIONS LISTED BELOW. ADDITIONAL DETAILS FOR EACH OPTION ARE PROVIDED IN THE SUBSEQUENT SUBSECTIONS:

#### 1. RETAIN AND PROTECT UNDISTURBED SOIL:

- LEAVE UNDISTURBED VEGETATION AND SOIL, AND PROTECT FROM COMPACTION BY FENCING AND KEEPING MATERIALS STORAGE AND EQUIPMENT OFF THESE AREAS DURING CONSTRUCTION.
- FOR ALL AREAS WHERE SOIL OR VEGETATION ARE DISTURBED, USE OPTION 2, 3, OR 4. SEE FIGURE 3.1 OF VOLUME III.

#### 2. AMEND SOIL:

- SOIL AMENDMENTS SHALL BE APPLIED TO ALL AREAS WHICH ARE BEING SET ASIDE AS NON-BUILDABLE AREAS (OPEN SPACE OR NATURAL RESOURCE PROTECTION AREAS) AND ARE IN NEED OF REHABILITATION BECAUSE OF PAST LAND USE DISTURBANCES SUCH AS CLEARING AND INTRUSION OF INVASIVE SPECIES. THE PURPOSE IS TO ENHANCE AND ACCELERATE THE REHABILITATION OF THE SOIL STRUCTURE. THE APPLICATION WILL BE NON-DESTRUCTIVE TO THE EXISTING VEGETATION THAT IS RETAINED BY TAKING CARE TO TAPER DEPTHS OF SOIL AMENDMENT NEAR THE SURFACE ROOTS.
- AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES TO MEET THE SOIL QUALITY GUIDELINES BASED ON ENGINEERING TESTS OF THE SOIL AND AMENDMENT. (REFER TO THE BUILDING SOIL MANUAL [STENN ET AL. 2012] OR WEB SITE WWW.BUILDINGSOIL.ORG, FOR CUSTOM CALCULATION METHODS.)

#### 3. STOCKPILE SOIL:

- STOCKPILE EXISTING TOPSOIL DURING GRADING AND REPLACE IT PRIOR TO PLANTING, AMEND STOCKPILED TOPSOIL IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH REQUIREMENTS EITHER AT THE DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE (REFER TO THE BUILDING SOIL MANUAL [STENN ET AL. 2012] OR WEBSITE <WWW.BUILDINGSOIL.ORG> FOR CUSTOM CALCULATION METHOD). SCARIFY SUBSOIL AND MULCH PLANTING BEDS, AS DESCRIBED UNDER THE SOIL AMENDMENT HEADING BELOW.

#### 4. IMPORT SOIL:

- IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS. IMPORTED SOILS SHOULD NOT CONTAIN EXCESSIVE CLAY OR SILT FINES (MORE THAN 5 PERCENT PASSING THE US #200 SIEVE) BECAUSE THAT COULD RESTRICT STORMWATER INFILTRATION. USE IMPORTED TOPSOIL THAT MEETS DEFAULT "PRE-APPROVED" RATES.
- SCARIFY SUBSOIL AND MULCH PLANTING BEDS, AS DESCRIBED UNDER THE SOIL AMENDMENT HEADING BELOW.

NOTE: MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE.

### SOIL RETENTION

IN BUILDABLE AREAS WHERE MINIMAL EXCAVATION FOUNDATION SYSTEMS MAY BE APPLIED, EXISTING TOPSOILS SHALL BE LEFT IN PLACE TO THE GREATEST EXTENT FEASIBLE AND SHAPED OR FEATHERED ONLY WITH TRACKED GRADING EQUIPMENT NOT EXCEEDING 650 POUNDS PER SQUARE FOOT MACHINE LOADS. WHERE SOME RE-GRADING IS REQUIRED, RE-COMPACTION OF PLACED MATERIALS, WHICH MAY INCLUDE TOPSOILS FREE OF VEGETATED MATTER, SHALL BE LIMITED TO THE MINIMUM DENSITIES REQUIRED BY THE FOUNDATION SYSTEM ENGINEERING.

### SOIL AMENDMENT

IF SOIL RETENTION AND PROTECTION IS NOT FEASIBLE, DISTURBED SOIL MUST BE AMENDED. SOIL ORGANIC MATTER IS OFTEN MISSING FROM DISTURBED SOILS. REPLENISH ORGANIC MATTER BY AMENDING WITH COMPOST. IT IS IMPORTANT THAT THE MATERIALS USED TO MEET THE SOIL PRESERVATION AND AMENDMENT BMP ARE APPROPRIATE AND BENEFICIAL TO THE PLANT COVER TO BE ESTABLISHED. LIKEWISE, IT IS IMPORTANT THAT IMPORTED TOPSOILS IMPROVE SOIL CONDITIONS AND DO NOT HAVE AN EXCESSIVE PERCENT OF CLAY OR SILT FINES.

AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" SOIL AMENDMENT RATES OR AT CUSTOM CALCULATED RATES TO MEET THE SOIL QUALITY GUIDELINES BASED ON ENGINEERING TESTS OF THE SOIL AND AMENDMENT. BOTH OPTIONS ARE DESCRIBED IN FURTHER DETAIL BELOW.

ALL AREAS SUBJECT TO THE CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY, OR ENGINEERED AS STRUCTURAL FILL OR SLOPE MUST, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

- A TOPSOIL LAYER MEETING THESE REQUIREMENTS:

- TURF AREAS: PLACE 1.75 INCHES OF COMPOST AND TILL IN TO AN 8 INCH DEPTH. ACHIEVE AN ORGANIC MATTER CONTENT, AS MEASURED BY THE LOSS-ON-IGNITION TEST, OF A MINIMUM 4 PERCENT (TARGET 5 PERCENT) ORGANIC MATTER CONTENT (ASTM D2974 OR TMECC 05.07A).
- PLANTING BEDS: PLACE 3 INCHES OF COMPOST AND TILL IN TO AN 8 INCH DEPTH. ACHIEVE AN ORGANIC MATTER CONTENT, AS MEASURED BY THE LOSS-ON-IGNITION TEST, OF A MINIMUM 8 PERCENT (TARGET 10 PERCENT) DRY WEIGHT.
- A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE ORIGINAL UNDISTURBED SOIL.
- A MINIMUM DEPTH OF 8 INCHES.
- ROOT ZONES WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS ARE EXEMPTED FROM THIS REQUIREMENT. FENCE AND PROTECT THESE ROOT ZONES FROM STRIPPING OF SOIL, GRADING, OR COMPACTION TO THE MAXIMUM EXTENT PRACTICAL.

- SCARIFY (LOOSEN) SUBSOILS BELOW THE TOPSOIL LATER AT LEAST 4 INCHES FOR A FINISHED MINIMUM DEPTH OF 12 INCHES OF UNCOMPACTED SOIL. INCORPORATE SOME OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.

- FOR TURF INSTALLATIONS: WATER OR ROLL TO COMPACT TO 85 PERCENT OF MAXIMUM DRY DENSITY, RAKE TO LEVEL, AND REMOVE SURFACE WOODY DEBRIS AND ROCKS LARGER THAN 1 INCH DIAMETER (BUILDING SOIL MANUAL [STENN ET AL. 2012] OR WEB SITE WWW.BUILDINGSOIL.ORG).

- AFTER PLANTING: MULCH PLANTING BEDS WITH 2 TO 4 INCHES OF ORGANIC MATERIAL SUCH AS ARBORIST WOOD CHIPS, BARK, SHREDDED LEAVES, COMPOST, ETC. DO NOT USE FINE BARK BECAUSE IT CAL SEAL THE SOIL SURFACE.

- USE COMPOST AND OTHER MATERIALS THAT MEET THE FOLLOWING ORGANIC CONTENT REQUIREMENTS:

- THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN ONLY BE MET USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (SEE SECTION 3.4), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35 PERCENT BIOSOLIDS OR MANURE. THE COMPOST MUST HAVE AN ORGANIC MATTER CONTENT OF 40 PERCENT TO 65 PERCENT, AND A CARBON TO NITROGEN RATIO BELOW 25:1. THE CARBON TO NITROGEN RATIO MAY BE AS HIGH AS 35:1 FOR PLANTINGS COMPOSED ENTIRELY OF PLANTS NATIVE TO THE PUGET SOUND LOWLANDS REGION.
- CALCULATED AMENDMENT RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIALS AS DEFINED ABOVE, OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B. TESTING PARAMETERS, IN WAC 173-350-220.

ASSURE THAT THE RESULTING SOIL IS CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

### SOIL STOCKPILING:

IN ANY AREAS REQUIRING GRADING, REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREAS WHICH IS NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS. REAPPLY TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

- IN BUILDABLE AREAS OF THE SITE, WHERE CONVENTIONAL GRADING IS REQUIRED, THE AREAS REQUIRING CUTS SHALL HAVE THE UPPER NATIVE TOPSOIL REMOVED AND STOCKPILED FOR REPLACEMENT TO AREAS OF THE DEVELOPMENT UTILIZED FOR STORMWATER AND/OR VEGETATION MANAGEMENT (YARDS, BIORETENTION AREAS, INTERFLOW PATHWAYS, VEGETATED CHANNELS, OR DEGRADED NATURAL RESOURCE PROTECTION AREAS).

- THE DEPTH OF UPPER NATIVE TOPSOIL REQUIRED TO BE STOCKPILED AND REPLACED SHALL BE THE ENTIRE DEPTH OF THE NATIVE TOPSOIL HORIZON UP TO A MAXIMUM OF 3 FEET.

- OVER-EXCAVATION OF CUT SECTIONS MAY BE NECESSARY IF THE CUT IS IN A LOCATION THAT WILL BE UTILIZED FOR STORMWATER MANAGEMENT. CUT TO A DEPTH THAT WILL ALLOW REPLACEMENT OF STOCKPILED NATIVE TOPSOIL TO THE ENTIRE DEPTH THAT WAS ON THE SITE POST-DEVELOPMENT UP TO A MAXIMUM OF 3 FEET.

- CUT SECTION WHERE NATIVE TOPSOIL REPLACEMENT IS REQUIRED SHALL REQUIRE RIPPING OF ANY CEMENTED TILL LAYERS TO A DEPTH OF 8 INCHES. SUBSEQUENTLY THE REPLACEMENT OF STOCKPILED TOPSOIL SHALL BE THOROUGHLY MIXED INTO THE RIPPED TILL TO PROVIDE A GRADUAL TRANSITION BETWEEN THE CEMENTED TILL LAYER AND THE TOPSOIL.

- STOCKPILED TOPSOIL SHALL BE REPLACED IN LIFTS NO GREATER THAN 1 FOOT DEEP AND COMPACTED BY ROLLING TO A DENSITY THAT MATCHES EXISTING CONDITIONS.

### IMPORTING SOIL

THE DEFAULT PRE-APPROVED RATES FOR IMPORTED TOPSOILS ARE:

- FOR PLANTING BEDS: USE A MIX BY VOLUME OF 35 PERCENT COMPOST WITH 65 PERCENT MINERAL SOIL TO ACHIEVE THE REQUIREMENT OF A MINIMUM 8 PERCENT (TARGET 10 PERCENT) ORGANIC MATTER BY LOSS-ON-IGNITION TEST.
- FOR TURF AREAS: USE A MIX BY VOLUME OF 20 PERCENT COMPOST WITH 80 PERCENT MINERAL SOIL TO ACHIEVE THE REQUIREMENT OF A MINIMUM 4 PERCENT (TARGET 5 PERCENT) ORGANIC MATTER BY LOSS-ON-IGNITION TEST.

### BMP T5.13

#### "POST CONSTRUCTION SOIL QUALITY AND DEPTH:

##### SOIL RETENTION:

RETAIN IN AN UNDISTURBED STATE. THE DUFF LAYER AND NATIVE TOPSOIL TO THE MAXIMUM EXTENT PRACTICABLE. IN ANY AREAS REQUIRING GRADING REMOVE AND STOCKPILE THE DUFF LAYER AND TOPSOIL ON SITE IN A DESIGNATED, CONTROLLED AREA, NOT ADJACENT TO PUBLIC RESOURCES AND CRITICAL AREAS, TO BE REAPPLIED TO OTHER PORTIONS OF THE SITE WHERE FEASIBLE.

##### SOIL QUALITY:

ALL AREAS SUBJECT TO CLEARING AND GRADING THAT HAVE NOT BEEN COVERED BY IMPERVIOUS SURFACE, INCORPORATED INTO A DRAINAGE FACILITY OR ENGINEERED AS STRUCTURAL FILL OR SLOPE SHALL, AT PROJECT COMPLETION, DEMONSTRATE THE FOLLOWING:

- A TOPSOIL LAYER WITH A MINIMUM ORGANIC MATTER CONTENT OF 10% DRY WEIGHT IN PLANTING BEDS, AND 5% ORGANIC MATTER CONTENT IN TURF AREAS, AND A PH FROM 6.0 TO 8.0 OR MATCHING THE PH OF THE UNDISTURBED SOIL. THE TOPSOIL LAYER SHALL HAVE A MINIMUM DEPTH OF EIGHT INCHES EXCEPT WHERE TREE ROOTS LIMIT THE DEPTH OF INCORPORATION OF AMENDMENTS NEEDED TO MEET THE CRITERIA. SUBSOILS BELOW THE TOPSOIL LAYER SHOULD BE SCARIFIED AT LEAST 4 INCHES WITH SOME INCORPORATION OF THE UPPER MATERIAL TO AVOID STRATIFIED LAYERS, WHERE FEASIBLE.
- MULCH PLANTING BEDS WITH 2 INCHES OF ORGANIC MATERIAL.
- USE COMPOST AND OTHER MATERIALS THAT MEET THESE ORGANIC CONTENT REQUIREMENTS:
  - THE ORGANIC CONTENT FOR "PRE-APPROVED" AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BIORETENTION (BMP T7.30), WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR MANURE. THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, AND A CARBON TO NITROGEN RATIO BELOW 25:1.
  - CALCULATED AMENDMENTS RATES MAY BE MET THROUGH USE OF COMPOSTED MATERIAL MEETING (A) ABOVE, OR OTHER ORGANIC MATERIALS AMENDED TO MEET THE CARBON TO NITROGEN RATIO REQUIREMENTS, AND NOT EXCEEDING THE CONTAMINANT LIMITS IDENTIFIED IN TABLE 220-B. TESTING PARAMETERS, IN WAC 173-350-220.

THE RESULTING SOIL SHOULD BE CONDUCTIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

### GENERAL NOTES:

- ALL MATERIALS AND WORKMANSHIP IN PIERCE COUNTY RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE LATEST STATE OF WASHINGTON DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND PIERCE COUNTY PUBLIC ROAD STANDARDS AND EMERGENCY VEHICLE ACCESS STANDARDS.

- IT WILL BE THE APPLICANT'S OR HIS AGENT'S RESPONSIBILITY TO CONTACT ALL UTILITY COMPANIES TO COORDINATE CONSTRUCTION. ALL UTILITY RELOCATION WORK SHALL BE AT THE EXPENSE OF THE APPLICANT AND MUST BE IN ACCORDANCE WITH THE STANDARDS OF THE COUNTY.

- BURIED UTILITIES ARE SHOWN IN THEIR APPROXIMATE LOCATION. THE APPLICANT OR HIS CONTRACTOR SHALL HAVE THE UTILITIES VERIFIED ON THE GROUND PRIOR TO ANY CONSTRUCTION.

- ANY REVISIONS TO THESE PLANS MUST BE REVIEWED AND APPROVED BY THE PIERCE COUNTY DEVELOPMENT ENGINEERING SECTION PRIOR TO ANY IMPLEMENTATION IN THE FIELD.

- BEFORE WORKING IN THE COUNTY RIGHT-OF-WAY, THE APPLICANT SHALL:
  - OBTAIN A GENERAL PERMIT FROM THE COUNTY.
  - SUBMIT A FINANCIAL GUARANTEE TO THE COUNTY TO ASSURE SATISFACTORY COMPLETION OF THE WORK.
  - PROVIDE PROOF OF LIABILITY INSURANCE IN AN AMOUNT REQUIRED BY THE COUNTY.

- THE CONTRACTOR SHALL NOTIFY THE APPLICANT'S ENGINEER IN THE EVENT OR DISCOVERY OF POOR SOILS, STANDING GROUND WATER, OR SEVERE DISCREPANCIES FROM SOIL LOG DESCRIPTIONS AS NOTED ON THESE PLANS.

#### EXCAVATION STANDARDS

##### CUT SLOPES

SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, OR AS RECOMMENDED BY A SOILS ENGINEER. THE CATCH POINT OF THE TOP OF THE SLOPE SHALL BE SET BACK FROM THE SITE BOUNDARY LINE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS A RETAINING WALL IS DESIGNED BY THE ENGINEER AND CONSTRUCTED FOR THE PROJECT.

CUT DEPTH	SET BACK DISTANCE
UNDER 5 FEET	2 FEET
5 - 20 FEET	HEIGHT/2
OVER 20 FEET	10 FEET

#### FILL STANDARDS

##### FILL LOCATION

SLOPES SHALL NOT BE STEEPER THAN 2 HORIZONTAL TO 1 VERTICAL, OR AS RECOMMENDED BY A SOILS ENGINEER. FILL SITES MUST BE APPROVED BY THE ENGINEER AS SUITABLE LOCATIONS FOR THE PROPOSED FILL. THE TOE OR CATCH POINT OF FILL SLOPES SHALL BE SET BACK FROM THE SITE BOUNDARY LINE IN ACCORDANCE WITH THE FOLLOWING TABLE, UNLESS A RETAINING WALL IS DESIGNED BY THE ENGINEER AND CONSTRUCTED FOR THE PROJECT.

FILL DEPTH	SET BACK DISTANCE
UNDER 5 FEET	2 FEET
5 - 40 FEET	HEIGHT/2

#### PREPARATION OF GROUND

THE GROUND SURFACE FOR FILLS OVER TWO FEET IN HEIGHT SHALL BE PREPARED BY REMOVING VEGETATION, NON-COMPLYING FILL, TOPSOIL, AND OTHER UNSUITABLE MATERIALS, SCARIFYING TO PROVIDE A BOND WITH THE NEW FILL, AND WHERE EXISTING SLOPES ARE STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL, BY BENCHING INTO COMPETENT MATERIAL AS DETERMINED BY THE ENGINEER. THE BENCH UNDER THE TOE OF A FILL ON A SLOPE STEEPER THAN 5 HORIZONTAL TO 1 VERTICAL SHALL BE AT LEAST 10 FEET WIDE, OR AS RECOMMENDED BY A SOILS ENGINEER.

- ISSUANCE OF A SITE DEVELOPMENT PERMIT BY PIERCE COUNTY DOES NOT IMPLY OR SIGNIFY THAT THE PROPOSED WORK COMPLIES WITH THE REQUIREMENTS OF OR IS ALLOWED BY OTHER COUNTY ORDINANCES, REGULATIONS, OR REQUIREMENTS, OR STATE OR FEDERAL LAWS. APPLICANT WILL ACCEPT SOLE RESPONSIBILITY AND LIABILITY FOR COMPLIANCE WITH ALL STATE, FEDERAL, AND LOCAL RULES, REQUIREMENTS, LAWS, ORDINANCES, AND REGULATIONS.

- THE SITE DEVELOPMENT PERMIT MUST BE POSTED BY THE DEVELOPER AT THE DRIVEWAY LOCATION FOR THE DURATION OF THE CONSTRUCTION ACTIVITY. THE DEVELOPER WILL BE RESPONSIBLE FOR THE WEATHERPROOFING OF THE PERMIT, POSTING APPARATUS, AND MAINTENANCE.

- A SITE DEVELOPMENT PERMIT SHALL BE VALID FOR ONE YEAR FROM THE DATE OF APPROVAL BY THE COUNTY. A ONE-YEAR EXTENSION MAY BE GRANTED IF DEEMED APPROPRIATE BY THE COUNTY.

- THE COUNTY IS AUTHORIZED TO MAKE INSPECTIONS AND TAKE SUCH ACTIONS AS REQUIRED TO ENFORCE THESE REGULATIONS. THE COUNTY REPRESENTATIVE SHALL PRESENT PROPER CREDENTIALS AND MAKE A REASONABLE EFFORT TO CONTACT THE PROPERTY OWNER BEFORE ENTERING ONTO PRIVATE PROPERTY.

- SHOULD THE COUNTY BECOME AWARE OF CONDITIONS THAT INVALIDATE THE ORIGINAL DESIGN DATA USED TO OBTAIN THE PERMIT OR DETERMINE THAT THE APPLICANT IS NOT COMPLYING WITH THE CONDITIONS OF THE PERMIT OR APPROVED PLANS, THE COUNTY MAY REVOKE THE ORIGINAL PERMIT AND/OR ORDER WORK STOPPED ON THE PROJECT. THE COUNTY MAY REQUIRE THE APPLICANT TO RESUBMIT INFORMATION OR PLANS.

### EROSION CONTROL NOTES:

- ON-SITE EROSION CONTROL MEASURES SHALL BE THE RESPONSIBILITY OF THE DEVELOPER. ANY PROBLEMS OCCURRING BEFORE FINAL ACCEPTANCE OF THE STORM SYSTEM BY THE MUNICIPALITY SHALL BE CORRECTED BY THE APPLICANT AND/OR THE CONTRACTOR.

- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTY, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL AGGRAVATE THE SITUATION MUST CEASE AND THE APPLICANT/CONTRACTOR SHALL IMMEDIATELY COMMENCE RESTORATION OR MITIGATION MEASURES. RESTORATION ACTIVITY SHALL CONTINUE UNTIL SUCH TIME AS THE PROBLEM IS RECTIFIED.

- ALL EROSION AND SEDIMENTATION CONTROL DEVICES SHOWN ON THIS DRAWING SHALL BE INSTALLED PRIOR TO OR AS THE FIRST STAGE OF SITE PREPARATION.

- SHOULD THE TEMPORARY EROSION AND SEDIMENTATION CONTROL MEASURES AS SHOWN ON THIS DRAWING NOT PROVE ADEQUATE TO CONTROL EROSION AND SEDIMENTATION, THE APPLICANT/CONTRACTOR SHALL INSTALL ADDITIONAL FACILITIES AS NECESSARY TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

- IN ANY AREA WHICH HAS BEEN STRIPPED OF VEGETATION OR EXPERIENCED LAND DISTURBING ACTIVITIES AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD EXCEEDING FIVE DAYS, ALL DISTURBED AREAS MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER, INCLUSIVE. SEEDING MAY PROCEED, HOWEVER, WHENEVER IT IS IN THE INTEREST OF THE APPLICANT/CONTRACTOR, BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT.

- THE PROJECT ENGINEER OR PROJECT SURVEYOR WILL BE RESPONSIBLE FOR FIELD LOCATING THE CLEARING LIMITS AND ESTABLISHING THOSE BOUNDARIES WITH BRIGHT COLORED FLAGGING. THE CONTRACTOR SHALL CLEAR TO THE LIMITS AS ESTABLISHED ON THIS PLAN AND AS FLAGGED IN THE FIELD.

- THE COUNTY SHALL BE RESPONSIBLE FOR THE INSPECTION AND ACCEPTANCE OF ALL CLEARING AND GRADING WORK AND EROSION AND SEDIMENTATION CONTROL FACILITIES. THE APPLICANT AND/OR CONTRACTOR SHALL NOTIFY THE COUNTY FORTY-EIGHT HOURS IN ADVANCE OF EACH REQUIRED EROSION AND SEDIMENT CONTROL INSPECTION.

INSPECTION NO. 1 -	INSTALLATION OF EROSION CONTROL FACILITIES/PRIOR TO CLEARING.
INSPECTION NO. 2 -	COMPLETION OF CLEARING.
INSPECTION NO. 3 -	UPON COMPLETION OF EXCAVATION, FILLING, AND EARTHWORK.
INSPECTION NO. 4 -	COMPLETION OF PROJECT.
INSPECTION NO. 5 -	AS NEEDED TO DETERMINE COMPLIANCE WITH APPROVED PLANS AND/OR SPECIFICATIONS. (DOES NOT REQUIRE ADVANCE NOTICE.)

ALL WORK ASSOCIATED WITH STABILIZING THE DISTURBED AREAS SHALL BE IN ACCORDANCE WITH THE PIERCE COUNTY STORMWATER MANAGEMENT MANUAL.

- ALL NECESSARY FACILITIES SHALL BE MAINTAINED ON SITE TO PREVENT DEBRIS, DUST, AND MUD FROM ACCUMULATING ON THE PUBLIC RIGHT-OF-WAY.

### MULCHING NOTES:

- MULCH MATERIALS USED SHALL BE HAY OR STRAW AND SHALL BE APPLIED AT A RATE OF 90-135 POUNDS PER 1000 SQUARE FEET, OR 218 BALES PER ACRE TO A MIN. DEPTH OF 2 INCHES.

- MULCHES SHALL BE APPLIED IN ALL AREAS WITH EXPOSED SLOPES GREATER THAN 2:1.

- MULCHING SHALL BE USED IMMEDIATELY AFTER SEEDING OR IN AREAS WHICH CANNOT BE SEEDDED BECAUSE OF THE SEASON.

- ALL AREAS NEEDED MULCH SHALL BE COVERED BY NOVEMBER 1.

### SEEDING NOTES:

- SEED MIXTURE SHALL BE 10% REDTOP (92% PURITY, 90% GERMINATION); 40% ANNUAL RYE (98% PURITY, 90% GERMINATION); 40% CHEWING FESCUE (97% PURITY, 80% GERMINATION); AND 10% WHITE DUTCH CLOVER (96% PURITY, 90% GERMINATION) AND SHALL BE APPLIED AT THE RATE OF 120 POUNDS PER ACRE.

- FOR SEED BEDS PLANTED BETWEEN OCTOBER 1 AND APRIL 30, ARMORING OF THE SEED BED WILL BE NECESSARY. (E.G., GEOTEXTILES, JUTE MAT, CLEAR PLASTIC COVERING).

- BEFORE SEEDING, INSTALL NEEDED SURFACE RUNOFF CONTROL MEASURES SUCH AS GRADIENT TERRACES, INTERCEPTOR DIKES, SWALES, LEVEL SPREADERS AND SEDIMENT BASINS.

- THE SEEDBED SHALL BE FIRM WITH A FAIRLY FINE SURFACE, FOLLOWING SURFACE ROUGHENING. PERFORM ALL OPERATION ACROSS OR AT RIGHT ANGLES TO THE SLOPE.

- FERTILIZERS ARE TO BE USED ACCORDING TO SUPPLIERS RECOMMENDATIONS. AMOUNTS USED SHOULD BE MINIMIZED, ESPECIALLY ADJACENT TO WATER BODIES AND WETLANDS.

- EROSION CONTROL SEEDING SHALL NOT BE USED IN AREAS SUBJECT TO WEAR BY CONSTRUCTION TRAFFIC.

- EROSION CONTROL SEEDING MAY BE USED IN ALL AREAS OF 5% OR LESS SLOPE. IN AREAS BETWEEN 5 AND 10% SLOPE, EROSION CONTROL SEEDING MAY BE USED FOR A MAXIMUM HORIZONTAL DISTANCE OF 100 FEET. USE MULCH OR NETTING OR OTHER TREATMENTS FOR STEEPER AND LONGER SLOPES.

### SEED MIXTURE FOR EROSION CONTROL:

NAME:	% BY WEIGHT:	% PURITY:	% GERMINATION:
REDDTOP (AGROSTIS ALBA)	10 PERCENT	92 PERCENT	90 PERCENT
ANNUAL RYE (LOLIUM MULTIFLORUM)	40 PERCENT	98 PERCENT	90 PERCENT
CHEWING FESCUE (FESTUCA RUBRA COMMUTATA - JAMESTOWN, BANNER, SHADOW, OR KORBT)	40 PERCENT	97 PERCENT	80 PERCENT
WHITE DUTCH CLOVER (TRIFOLIUM REPENS)	10 PERCENT	96 PERCENT	90 PERCENT

### CONSTRUCTION ENTRANCE NOTES:

- MATERIAL SHALL BE 4 INCH TO 8 INCH QUARRY SPALLS (4 TO 6 INCH FOR RESIDENTIAL SINGLE FAMILY LOTS) AND MAY BE TOP-DRESSED WITH 1 INCH TO 3 INCH ROCK. (STATE STANDARD SPECIFICATIONS, SECTION 8-15)

- THE ROCK PAD SHALL BE AT LEAST 12 INCHES THICK AND 100 FEET LONG (20 FEET FOR SITES WITH LESS THAN 1 ACRE OF DISTURBED SOIL). WIDTH SHALL BE THE FULL WIDTH OF THE VEHICLE INGRESS AND EGRESS AREA. SMALLER PADS MAY BE APPROVED FOR SINGLE-FAMILY RESIDENTIAL AND SMALL COMMERCIAL SITES.
- ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
- IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.

### INLET PROTECTION NOTES:

#### FILTER FABRIC FENCE - INSTALLATION PROCEDURE

- PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.

- EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.

- STAPLE THE FILTER FABRIC TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.

- BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

### TEMPORARY DIKES AND SWALES:

- SEED AND MULCH SHALL BE APPLIED WITHIN 5 DAYS OF DIKE CONSTRUCTION (SEE VEGETATION)
- THE UPSLOPE SIDE OF THE DIKE SHALL PROVIDE POSITIVE DRAINAGE TO THE DIKE OUTLET.
- NO EROSION SHALL OCCUR AT THE DIKE OUTLET. PROVIDE ENERGY DISSIPATION MEASURES AS NECESSARY.
- SEDIMENT LADEN RUNOFF MUST BE RELEASED THROUGH A SEDIMENT TRAPPING FACILITY SUCH AS A POND, TRAP, OR SILT FENCE AS APPROPRIATE TO DRAINAGE AREA SIZE.

### INSPECTION SEQUENCE:

TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES REQUIRING INSPECTION FOR THIS PROJECT:

- CLEARING AND GRADING LIMITS
- TEMPORARY CONSTRUCTION ENTRANCE
- TEMPORARY SILTATION FENCING
- VEGETATION AND STABILIZATION OF EXPOSED SURFACES
- STOCKPILE PLASTIC SHEETING
- STABILIZE EXPOSED SOILS WITH SOIL AMENDMENT OPTIONS, THIS SHEET.

PERMANENT EROSION AND SEDIMENT CONTROL MEASURES REQUIRED FOR THIS PROJECT:

- STABILIZE ALL EXPOSED AREAS WITH SOIL AMENDMENTS SEE NOTES
- SEEDING AND/OR LANDSCAPING OF NON-IMPERVIOUS SURFACES
- PAVING (ASPHALT OR CONCRETE)
- SEDIMENT CONTROL AS NOTED IN PLANS

### INSPECTION SCHEDULE:

- SILTATION FENCE - INSPECT: PRIOR TO CLEARING, AFTER MAJOR STORM EVENTS, MONTHLY
- TEMPORARY CONSTRUCTION ENTRANCE - INSPECT: PRIOR TO CLEARING, AFTER MAJOR STORM EVENTS, MONTHLY
- STOCKPILES - INSPECT: MONTHLY AND AFTER MAJOR STORM EVENTS FOR RIPPING AND LOOSE SEAMS
- CATCH BASINS AND STORM DRAINAGE PIPES - INSPECT: MONTHLY AND AFTER MAJOR STORM EVENTS
- INSPECTIONS SHALL CONTINUE UNTIL SITE HAS STABILIZED.

THE ESC LEAD FOR THIS PROJECT WILL BE DECIDED BY THE CONTRACTOR.

(A "MAJOR STORM EVENT" IS DESCRIBED AS 1 OR MORE INCHES OF RAINFALL IN A PERIOD OF 24 HOURS OR LESS.)

DATE

REVISION

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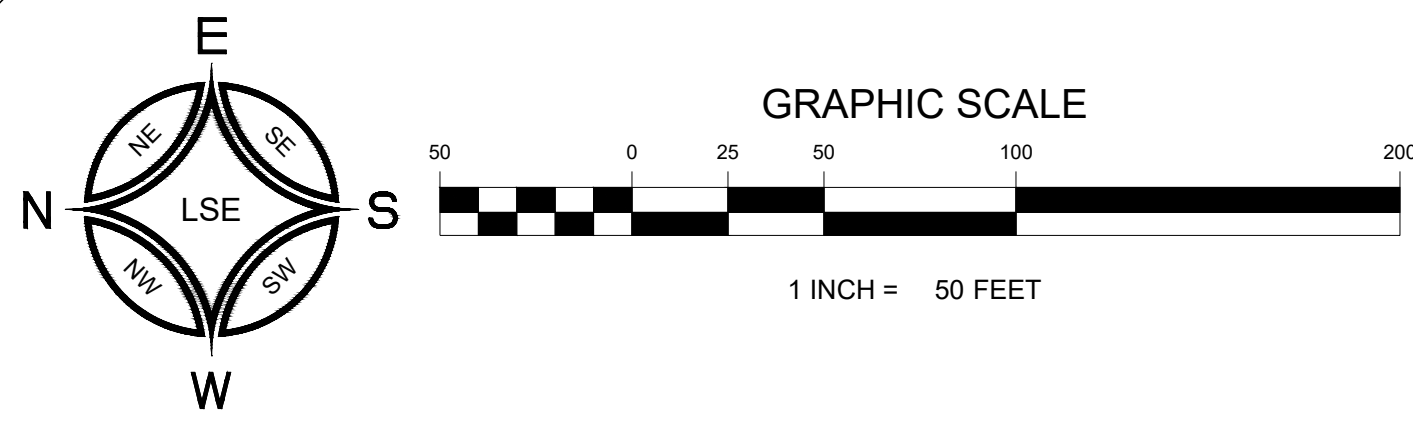
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VERTICAL DATUM:  
DATUM BASED ON NAVD 88

# SEDDON STORAGE

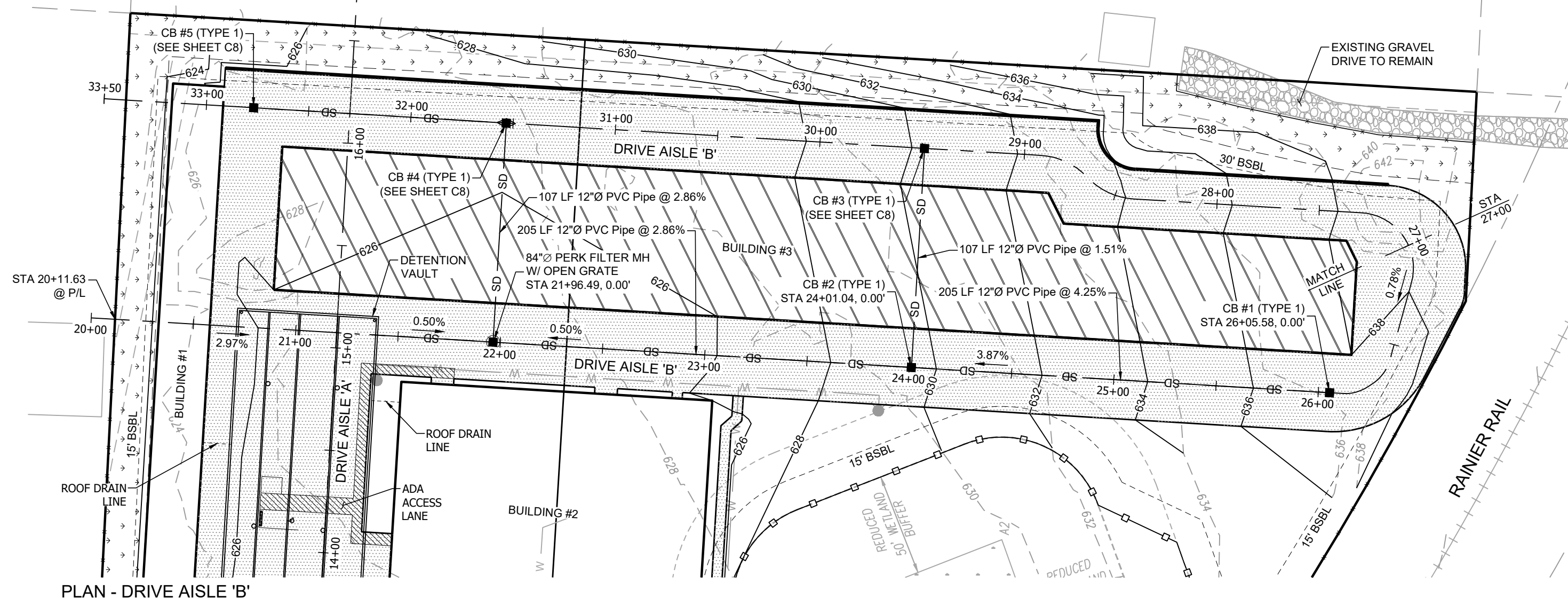
## SITE DEVELOPMENT PLANS

A PORTION OF THE SW  $\frac{1}{4}$  OF THE NW  $\frac{1}{4}$  OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M.  
PIERCE COUNTY, WASHINGTON

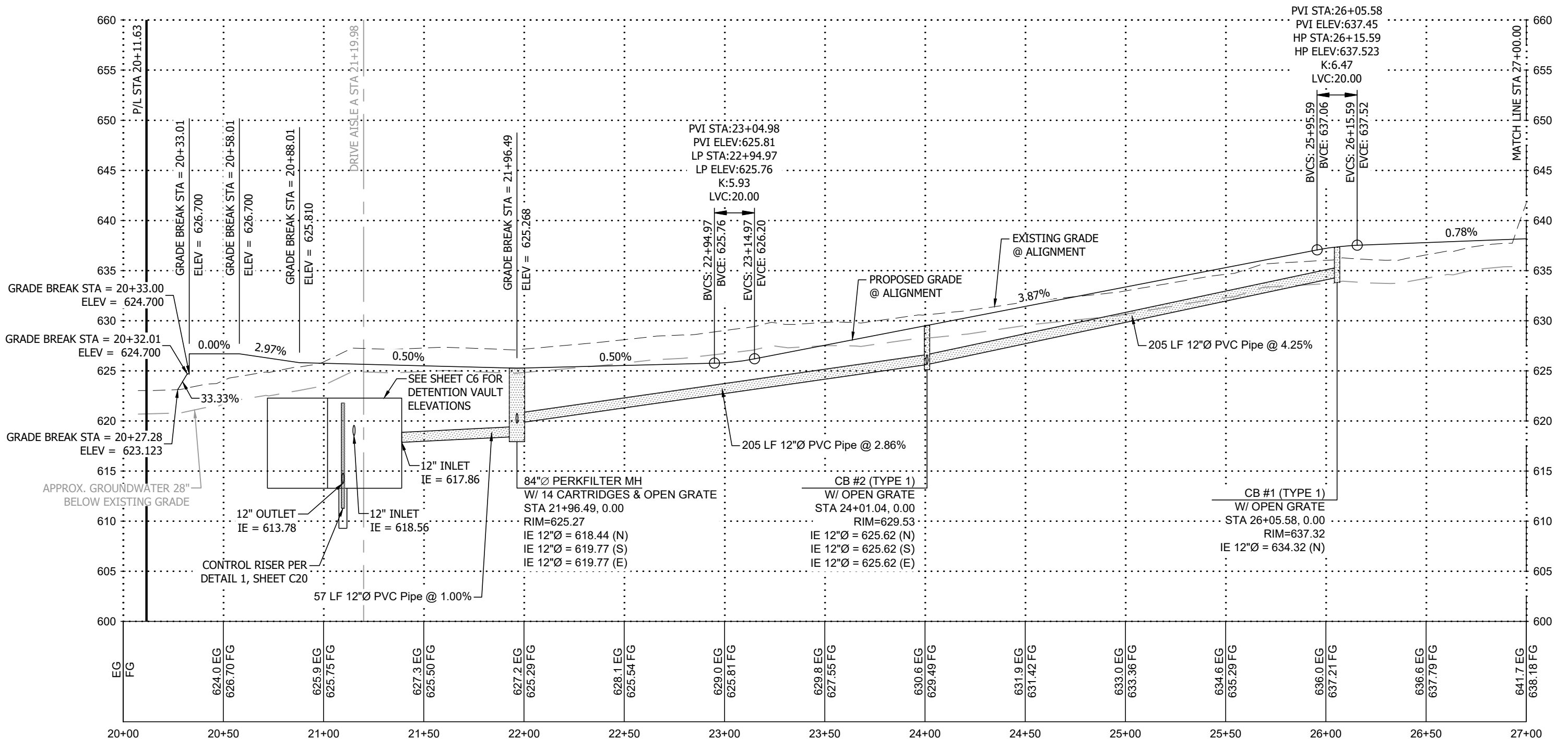
**PRIVATE IMPROVEMENTS**

DEVELOPMENT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 PERMIT # 1027109  
 PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

- A PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT DENNIS PATTERSON, THE AREA INSPECTOR, AT 253-798-2539.
- APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
- FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
- ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



PLAN - DRIVE AISLE 'B'  
HORIZ. SCALE: 1" = 50'



PROFILE - DRIVE AISLE 'B'  
HORIZ. SCALE: 1" = 50'  
VERT. SCALE: 1" = 5V

DATE	REVISION
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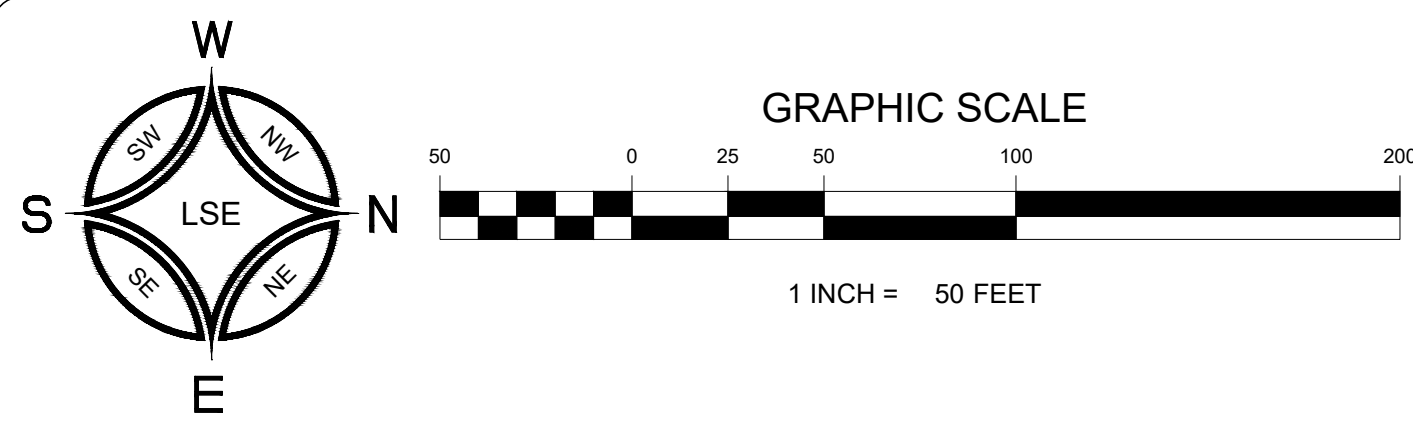
Plan & Profile - Drive Aisle 'B' STA 20+00 - 27+00

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VERTICAL DATUM:  
DATUM BASED ON NAVD 88

# SEDDON STORAGE

## SITE DEVELOPMENT PLANS

A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M.  
PIERCE COUNTY, WASHINGTON

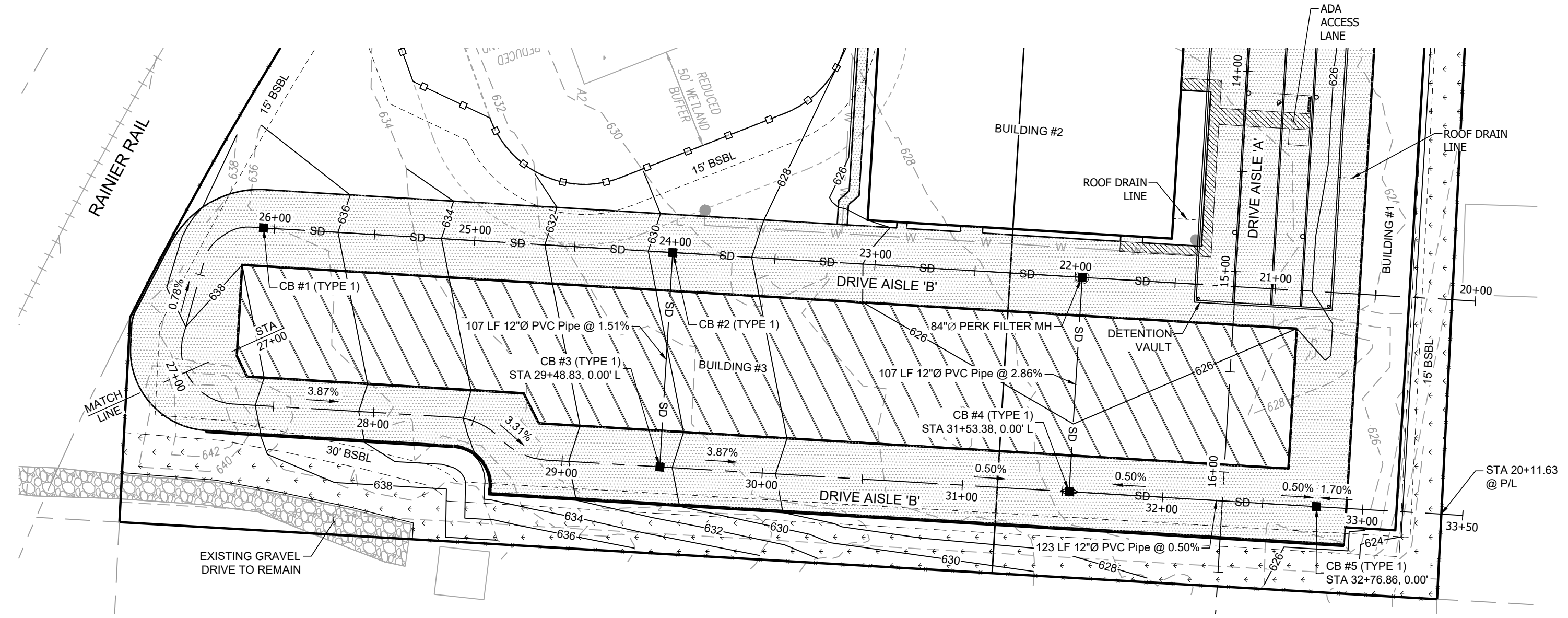
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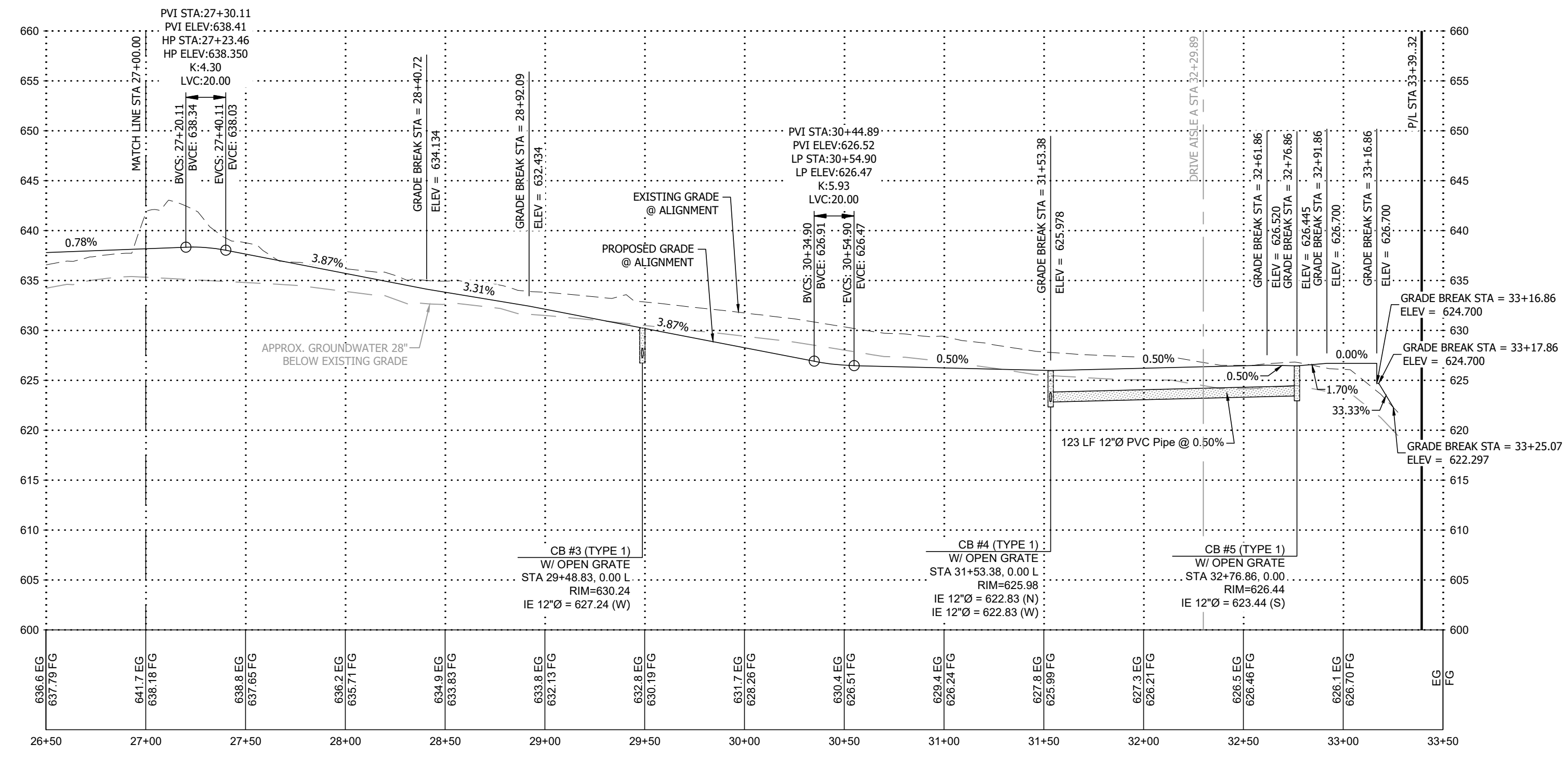
DEVELOPMENT ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_

PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

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PLAN - DRIVE AISLE 'B'  
HORIZ. SCALE: 1" = 50'



PROFILE - DRIVE AISLE 'B'  
HORIZ. SCALE: 1" = 50'  
VERT. SCALE: 1/4" = 5'

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JOB NO. 12088
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CHECKED BY: STN
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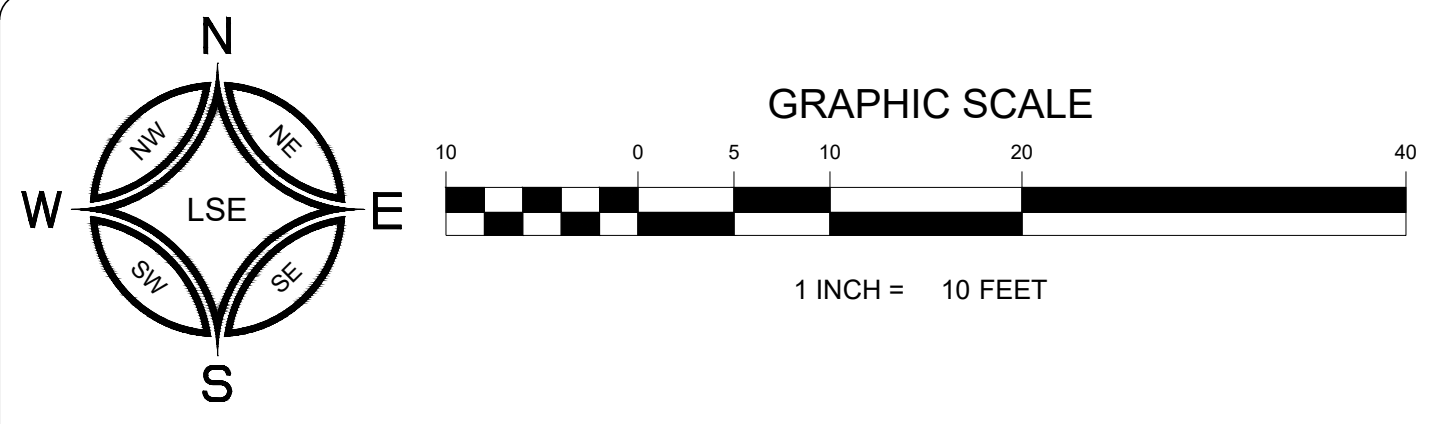
Plan & Profile - Drive Aisle 'B' STA 26+50 - 33+50

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# SEDDON STORAGE

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A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M.  
PIERCE COUNTY, WASHINGTON

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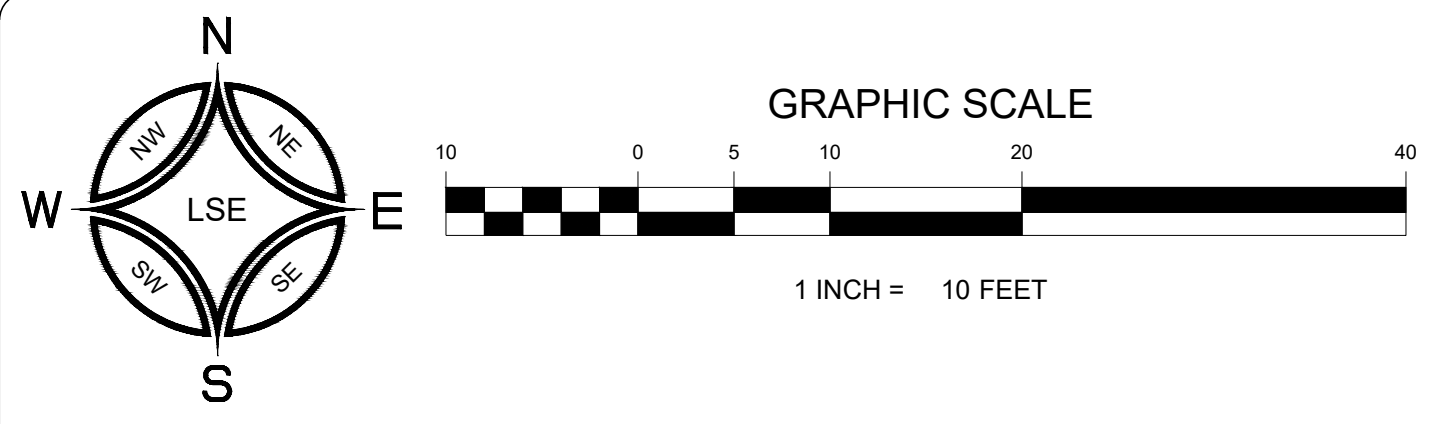
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**PRIVATE IMPROVEMENTS**

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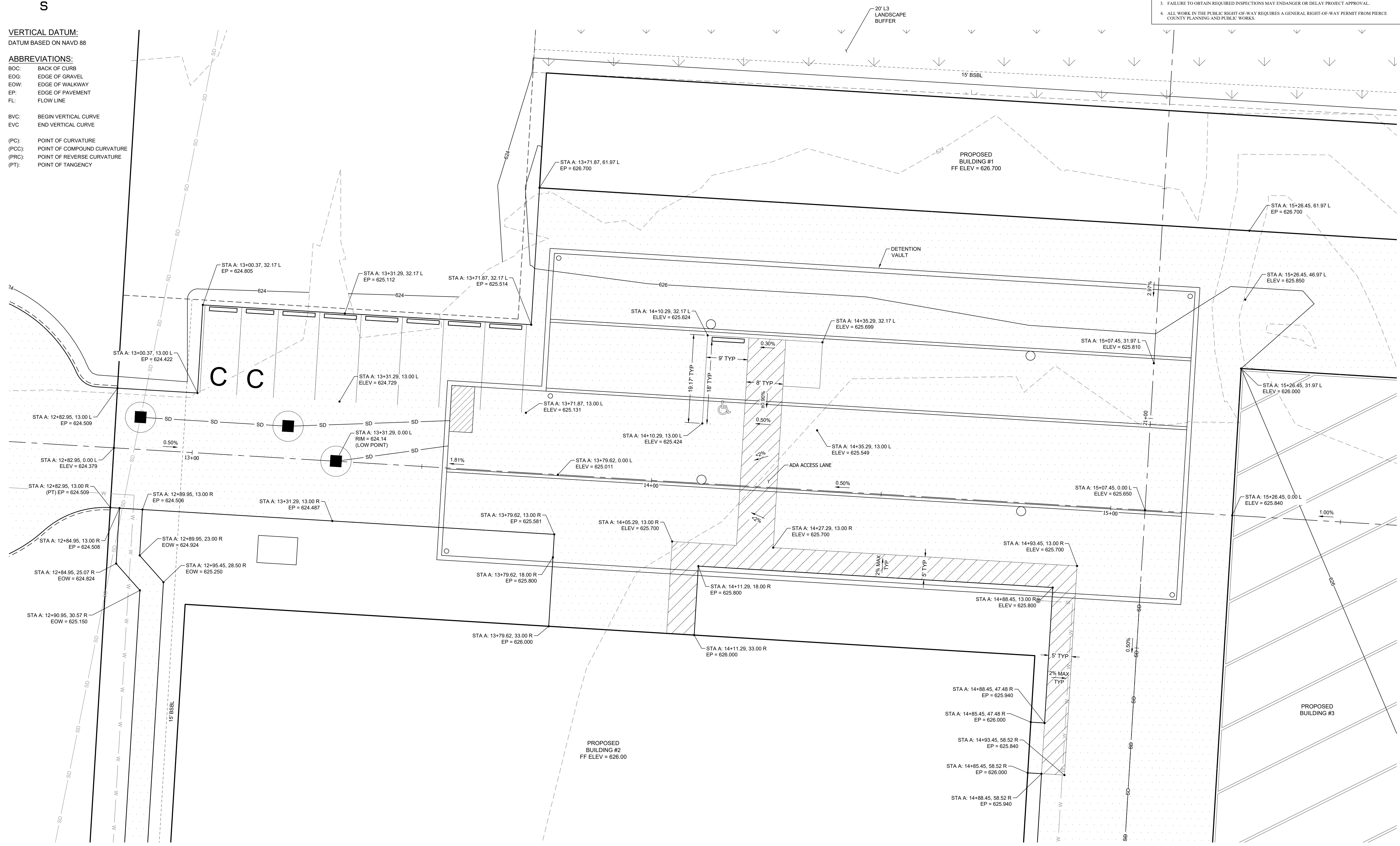


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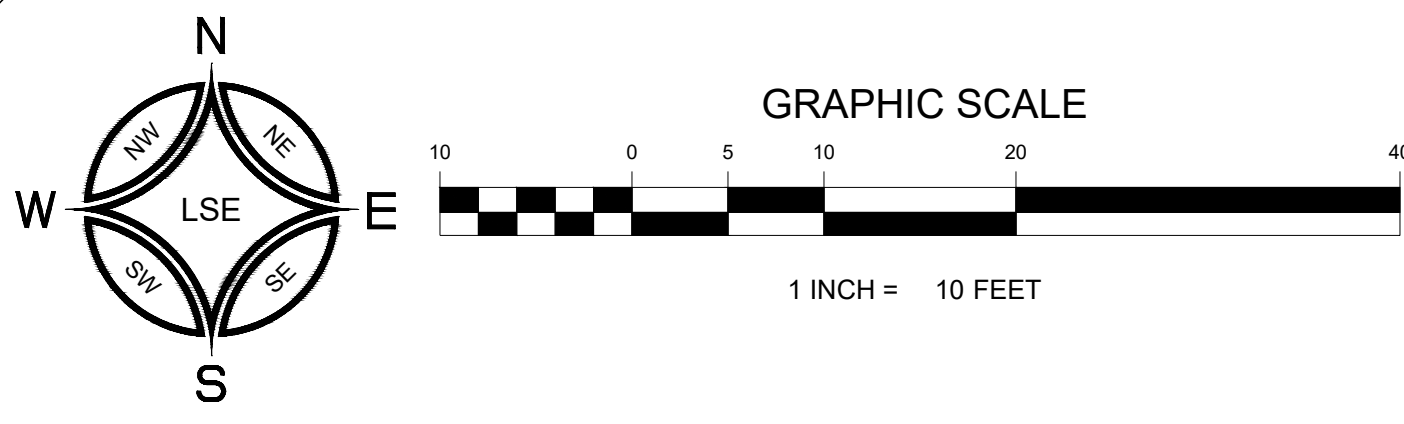
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PIERCE COUNTY, WASHINGTON

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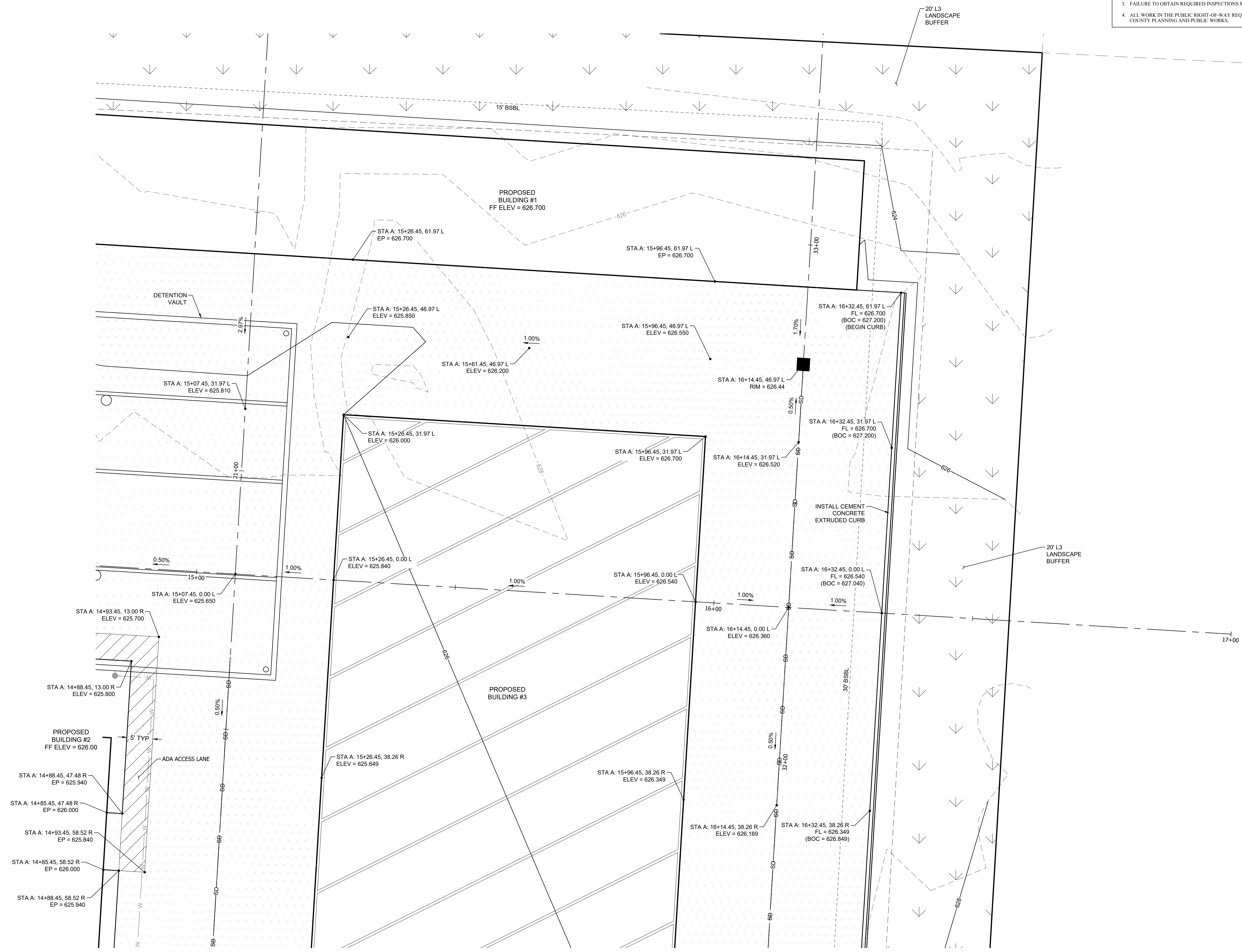
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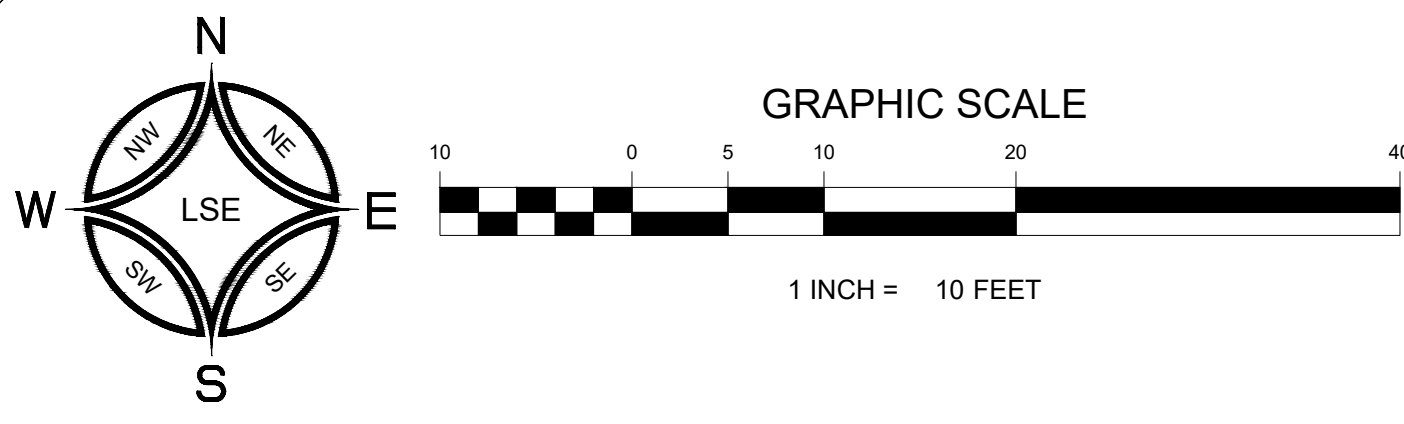
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PIERCE COUNTY, WASHINGTON

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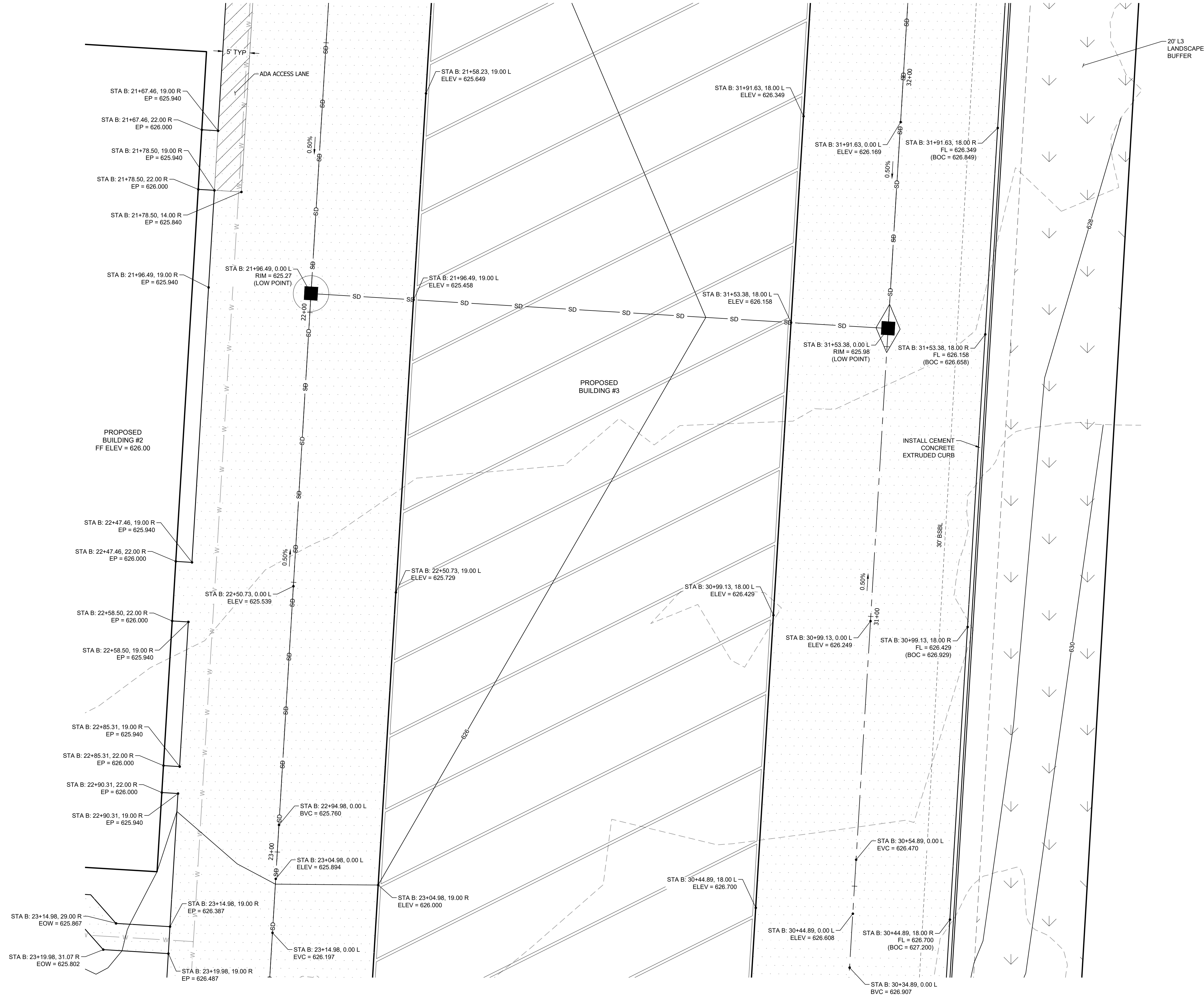
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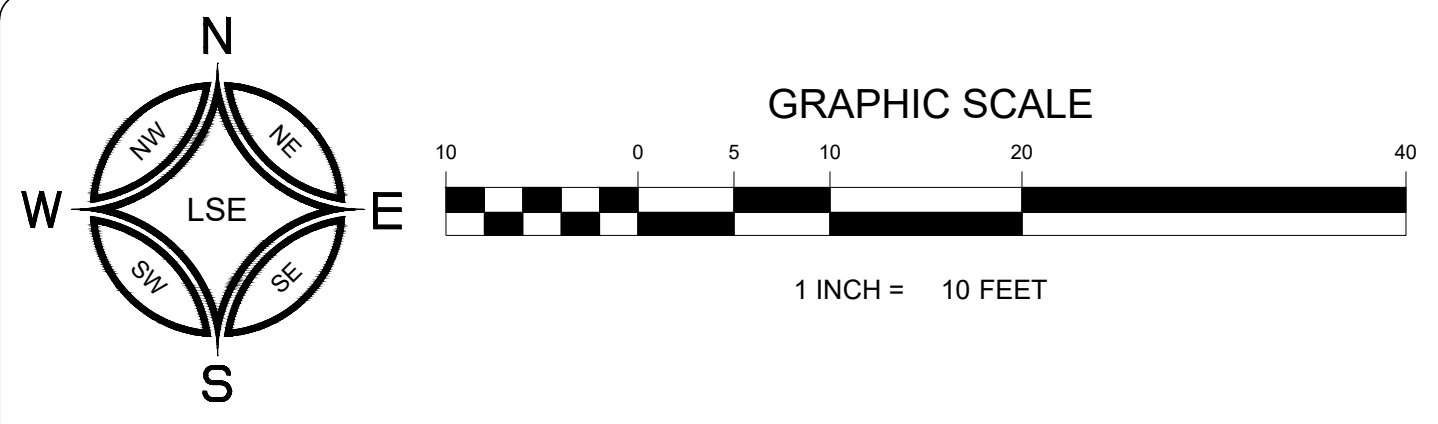
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# SEDDON STORAGE

## SITE DEVELOPMENT PLANS

A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M.  
PIERCE COUNTY, WASHINGTON

**PRIVATE IMPROVEMENTS**

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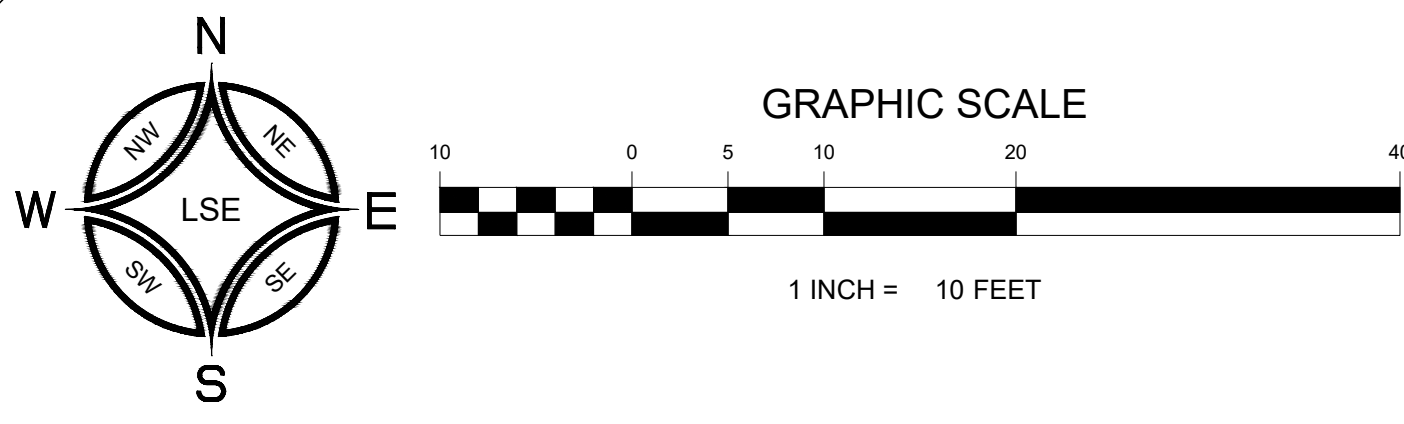
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PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

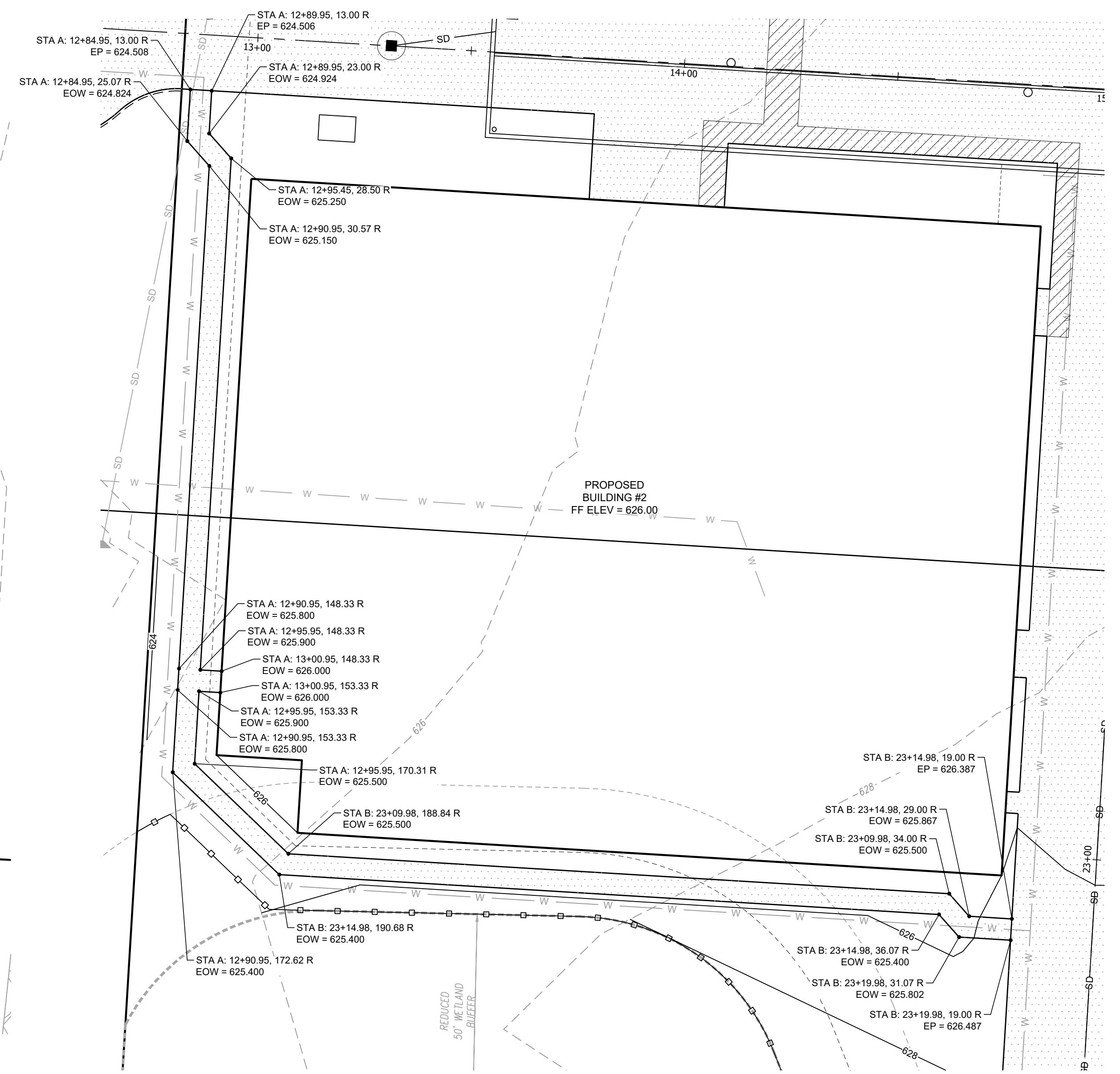
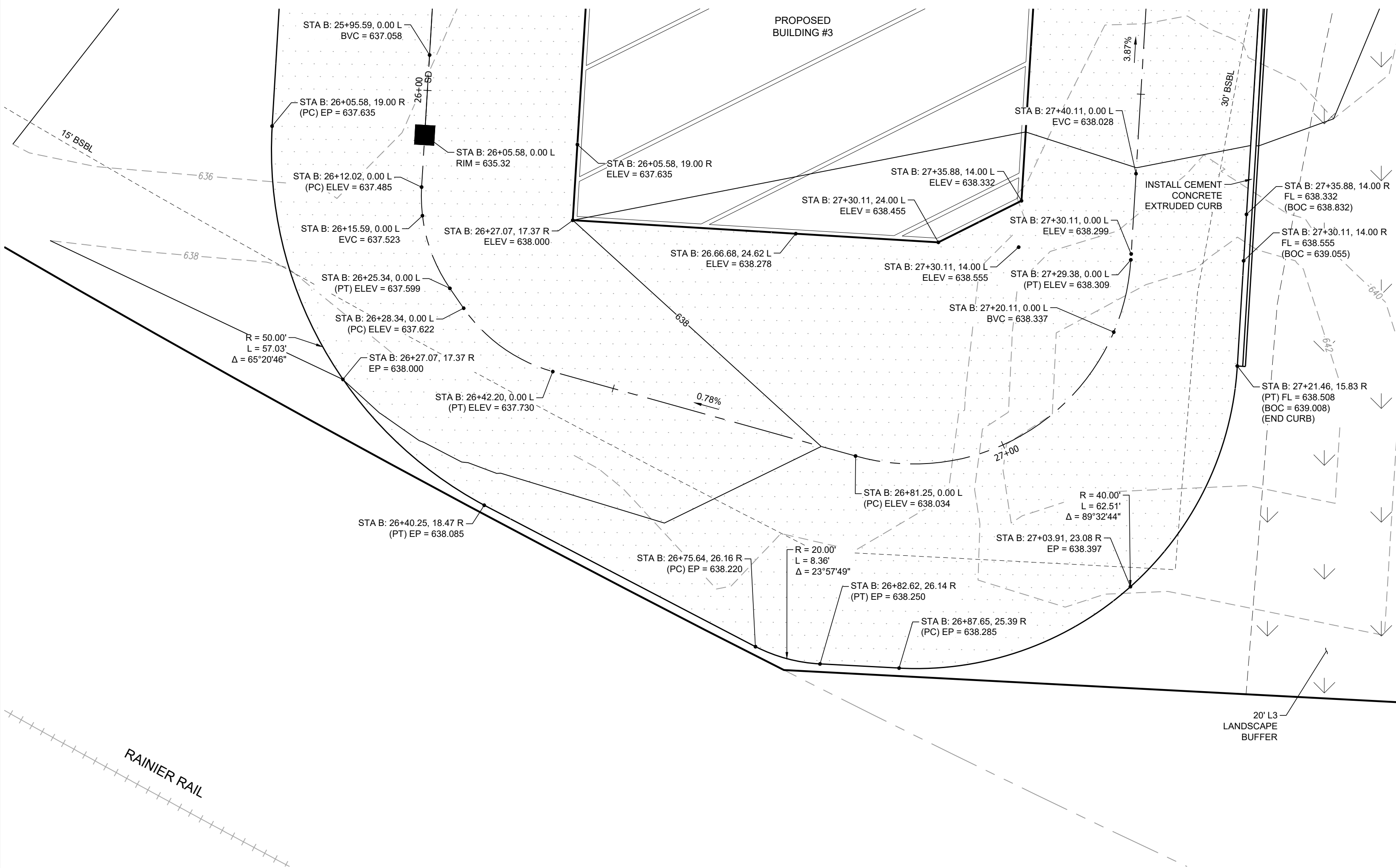
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ASPHALT WALKWAY GRADING DETAIL  
SCALE: 1" = 20'

DATE	REVISION

JOB NO. 12008	DESIGNED BY: TCS
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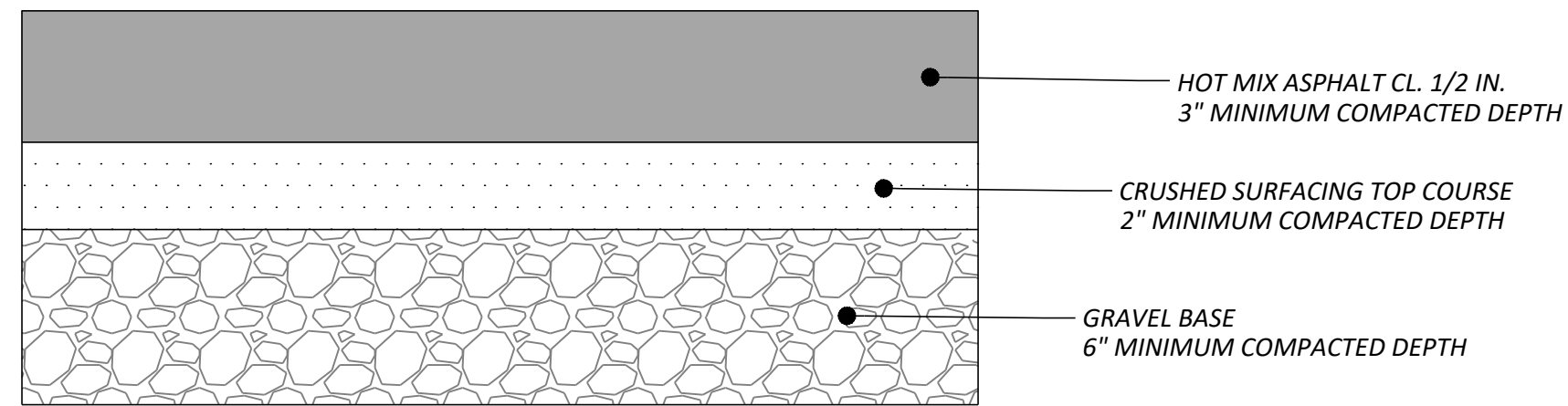
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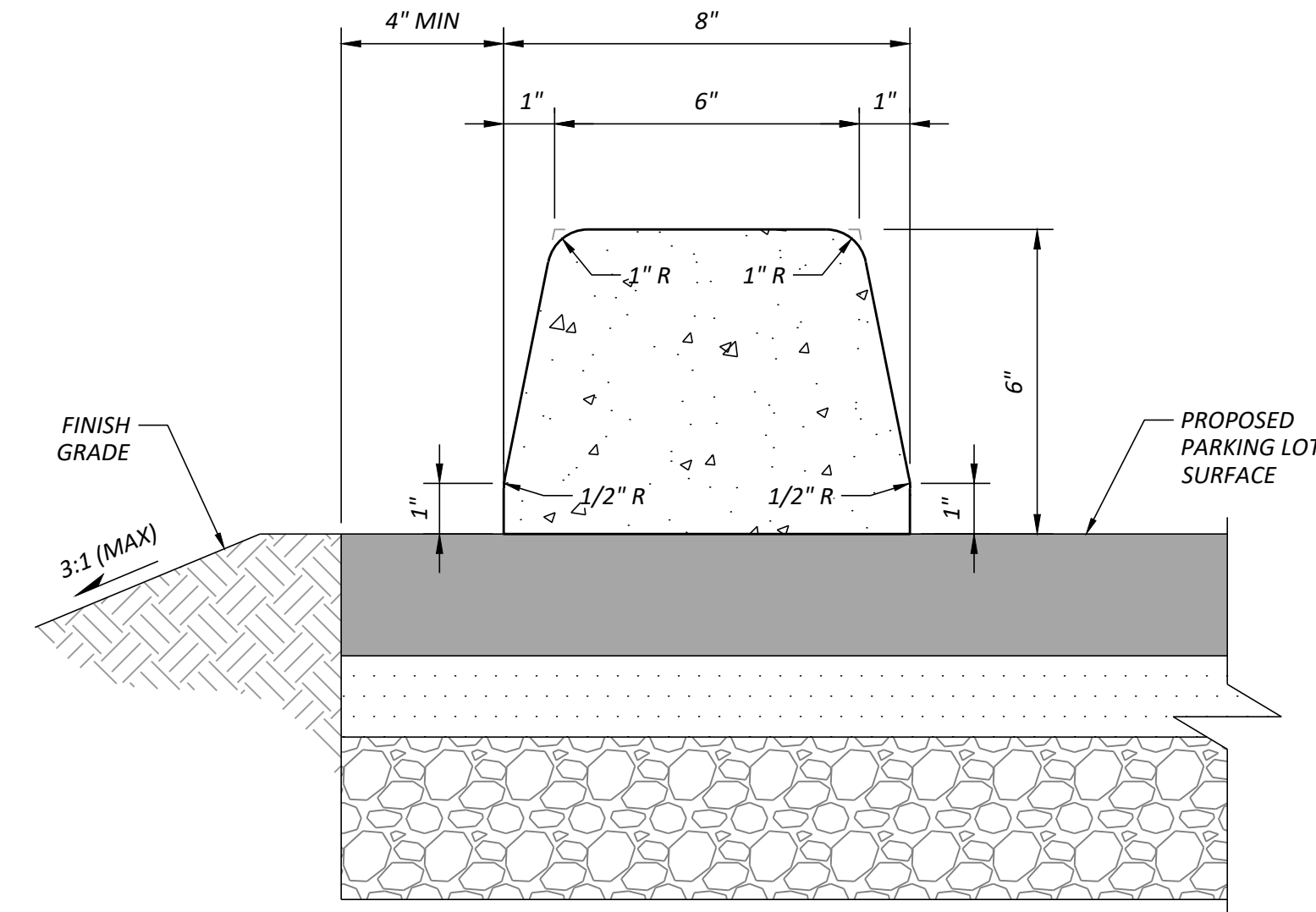
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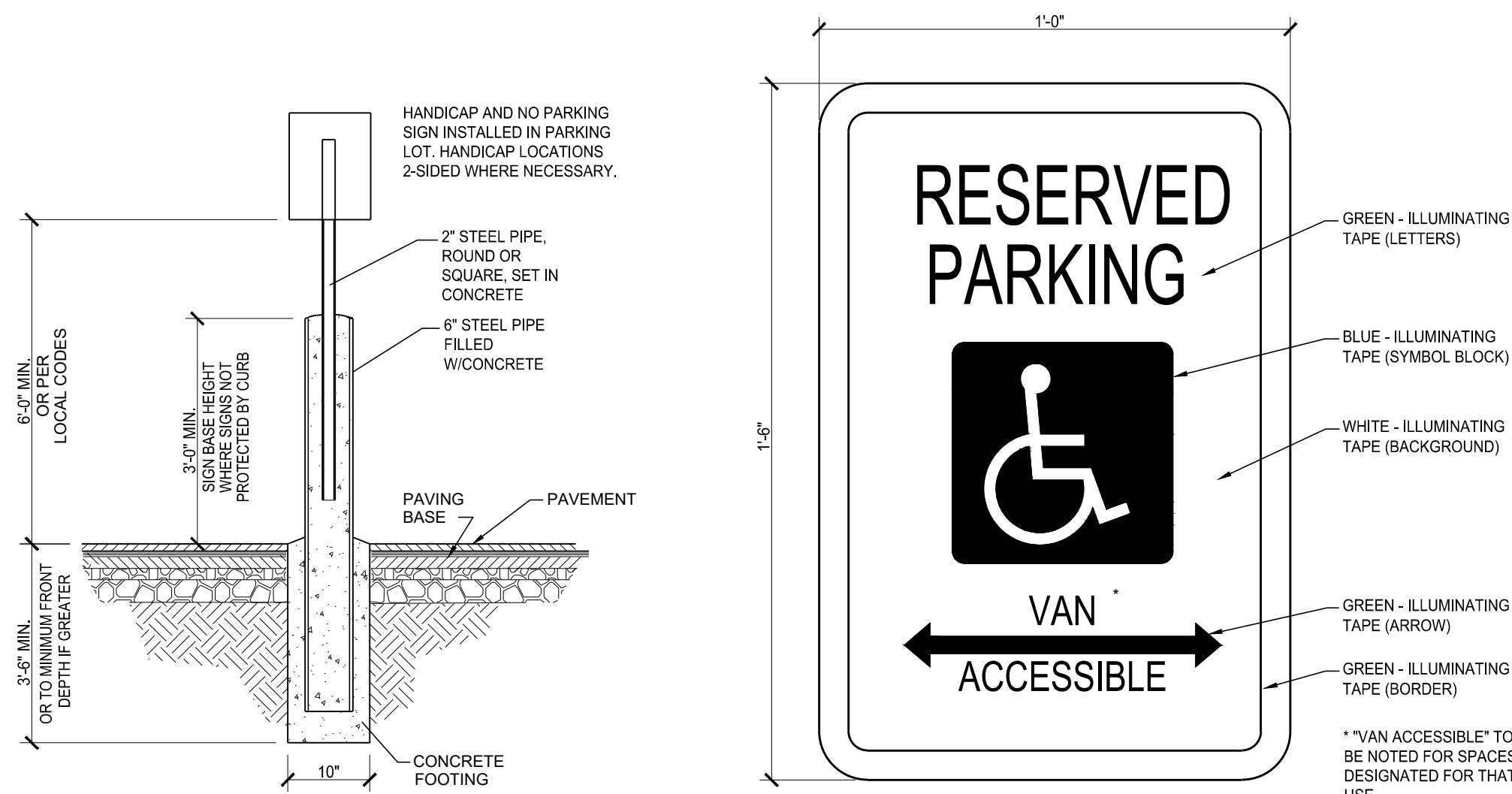
**NOTES:**

- 1) FINISH GRADE SLOPE FROM BACK OF CURB NOT TO EXCEED 3H:1V.
- 2) INSTALL CEMENT CONCRETE EXTRUDED CURB AS SHOWN ON THESE APPROVED PLANS.

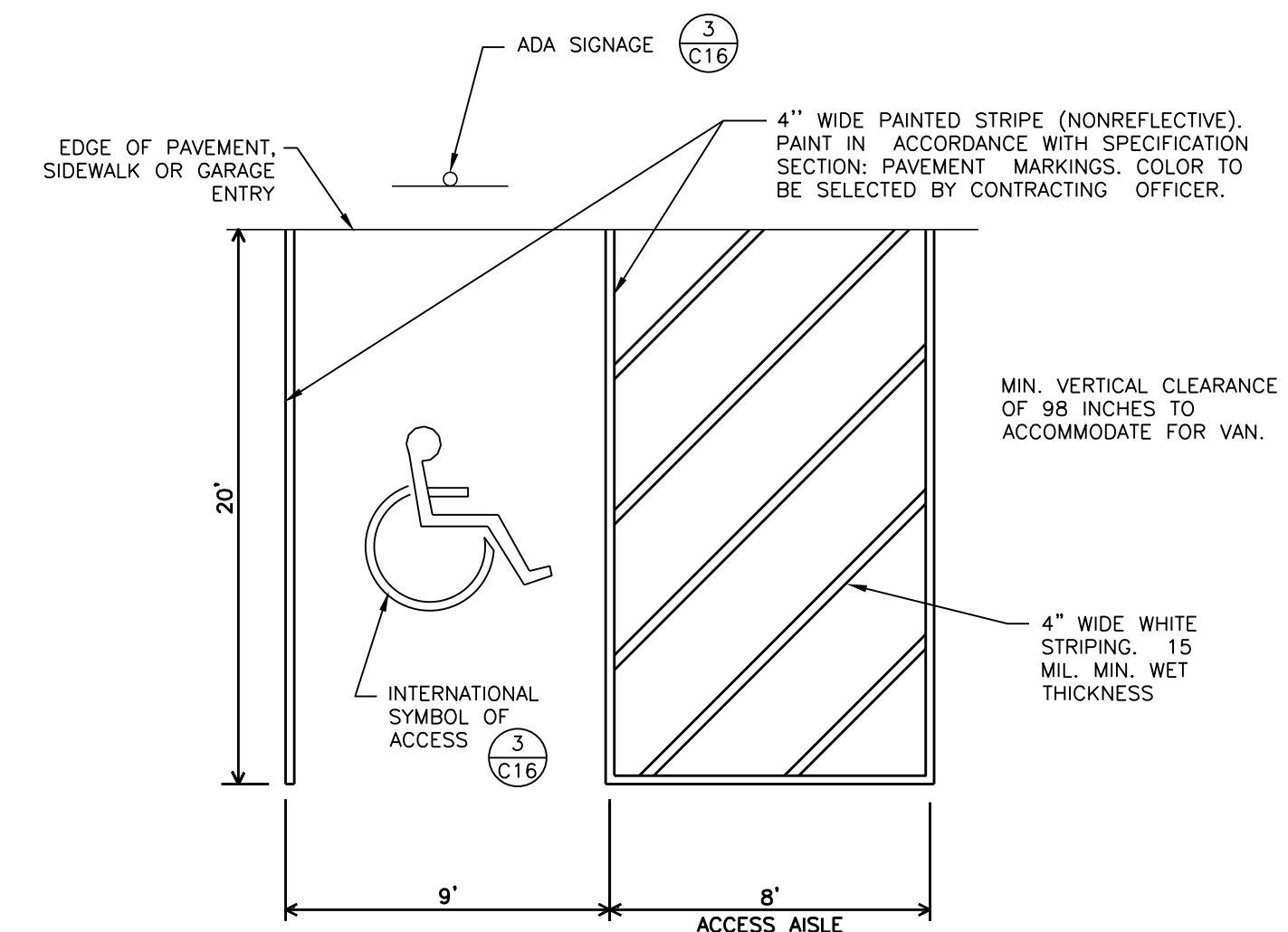
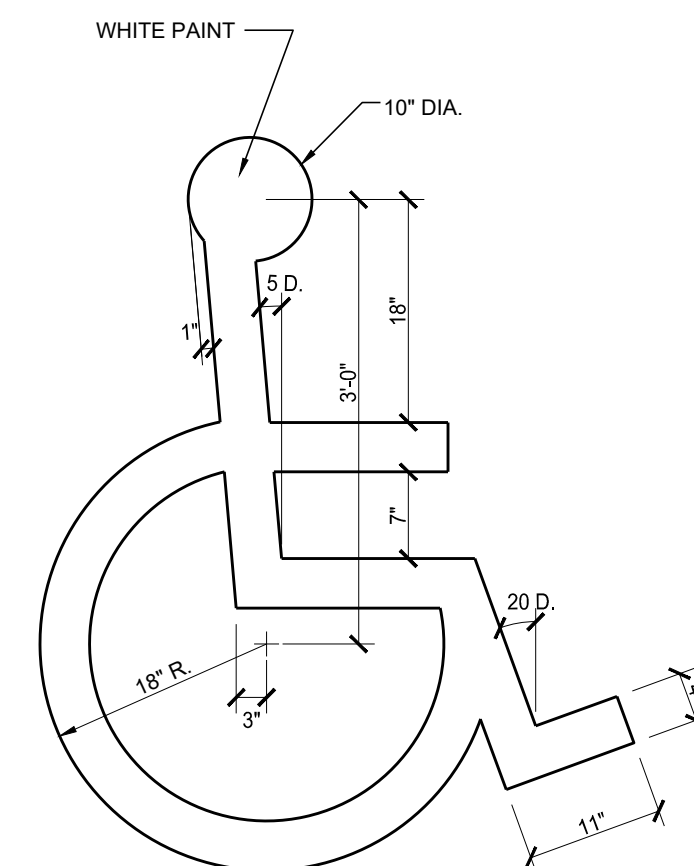
1 TYPICAL PARKING LOT PAVEMENT SECTION  
SCALE: N.T.S.



2 CEMENT CONCRETE EXTRUDED CURB  
SCALE: N.T.S.



3 ACCESSIBLE SIGN & STRIPING DETAIL  
SCALE: N.T.S.



4 ACCESSIBLE PARKING STALL & AISLE DETAIL  
SCALE: N.T.S.

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JOB NO. 12808	DESIGNED BY: TCS
DATE: 02/11/2025	CHECKED BY: STN
APPROVED BY: STN	

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**Notes & Details**

SEDDON STORAGE  
RICK & DOREEN SEDDON  
13613 MERIDIAN AVENUE EAST, SUITE 210  
PUYALLUP, WA 98373  
Phone: (253) 279-1986

DRAWING  
**C16**  
SHEET 16  
OF 20

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# SEDDON STORAGE

## SITE DEVELOPMENT PLANS

A PORTION OF THE SW 1/4 OF THE NW 1/4 OF SECTION 15, TOWNSHIP 18 N, RANGE 4 E, W.M. PIERCE COUNTY, WASHINGTON

PRIVATE IMPROVEMENTS

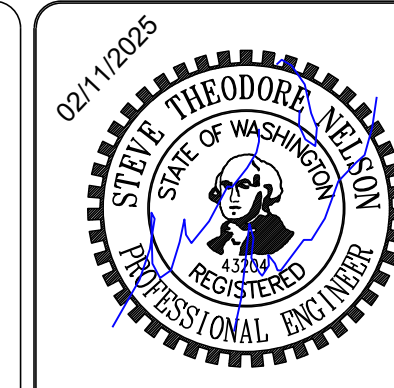
1027109  
PERMIT #

DEVELOPMENT ENGINEER

DATE

PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

1. A PRE-CONSTRUCTION MEETING SHALL BE REQUESTED AT LEAST 48 HOURS IN ADVANCE OF THE START OF CONSTRUCTION. CONTACT DENNIS PATTERSON, THE AREA INSPECTOR, AT 253-798-2539.
2. APPOINT A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD WHO SHALL BE PROVIDED A COPY OF THE SWPPP, EROSION CONTROL PLAN & INSPECTION SCHEDULE.
3. FAILURE TO OBTAIN REQUIRED INSPECTIONS MAY ENDANGER OR DELAY PROJECT APPROVAL.
4. ALL WORK IN THE PUBLIC RIGHT-OF-WAY REQUIRES A GENERAL RIGHT-OF-WAY PERMIT FROM PIERCE COUNTY PLANNING AND PUBLIC WORKS.



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JOB NO.	DATE	DESIGNED BY	CHECKED BY	APPROVED BY
12808	02/11/2025	TGS	STN	STN

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**DRAWING**  
**C19**  
SHEET 19  
OF 20

### PIPE ALLOWANCES

PIPE MATERIAL	MAXIMUM DIAMETER (INCHES)
REINFORCED OR PAVED CONCRETE	12"
ALL METAL PIPE	15"
CLAY PIPE (STD. SPEC. SECT. 9-06.23)	12"
SOLID WALL PVC (STD. SPEC. SECT. 9-06.11(1))	15"
PROFILE WALL PVC (STD. SPEC. SECT. 9-06.11(2))	15"

\* CORRUGATED POLYETHYLENE STORM SEWER PIPE

### CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-03  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Roark, Stevo  
Washington State Department of Transportation

### CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-02  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Roark, Stevo  
Washington State Department of Transportation

### PIPE ALLOWANCES

FRAME AND VANED GRATE  
RECTANGULAR ADJUSTMENT SECTION  
PRECAST BASE SECTION  
ALTERNATIVE PRECAST BASE SECTION

### RECTANGULAR SOLID METAL COVER

STANDARD PLAN B-30.20-04  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Roark, Stevo  
Washington State Department of Transportation

### CIRCULAR FRAME (RING) AND COVER

STANDARD PLAN B-30.70-04  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Roark, Stevo  
Washington State Department of Transportation

### Pierce County Stormwater Management and Site Development Manual

#### CREST GAGE SECTION A - 25.0

STANDARD PLAN B-30.70-04  
SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION  
Roark, Stevo  
Washington State Department of Transportation

**Notes**

1. ALL ANGLE IRONS AND STEEL STRAPS SHALL BE GALVANIZED IN ACCORDANCE WITH ASSHTO M. 232.
2. PIPE, CAPS, AND T-ADAPTER SHALL BE 1" I.D. WHITE PVC, OR PRIMED STEEL, EXCEPT THE WATER INTAKE PIPE SHALL BE WHITE PVC. PIPE SHALL BE SCH. 40. ALL PIPE JOINTS SHALL BE THREADED.
3. GAGE ASSEMBLY PIPE, FIBERGLASS ROD, AND ANGLE IRON CAN BE EXTENDED AS NEEDED TO FIT SITE REQUIREMENTS. EXTRA PIPE CLAMPS SHALL BE ADDED FOR SECURITY.
4. SCORE THE WATER INTAKE PIPE 1/4" DEEP, 1/32" WIDE (WIDTH OF SAW BLADE), EVERY 1/2" ALTERNATING CUTS ON TOP AND BOTTOM FOR DRAINAGE. PLACE AT LOWEST WATER LEVEL.
5. WATER LEVEL MAY VARY, DEPENDING ON SEASON.
6. POUR IN APPROXIMATELY 1 TABLESPOON OF COARSE SAND AT INSTALLATION, AND AFTER EACH READING.
7. ALTERNATIVE ANCHORING METHODS MAY BE APPROVED BY COUNTY.

ORDINANCE: 2021-45  
EFFECTIVE DATE: 7/1/2021

K:\Users\12081\Public\Drawings\20881-FASL-Rwy\_LAST EDITED: 02/11/25 5:15AM BY: bsoares

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PIERCE COUNTY, WASHINGTON

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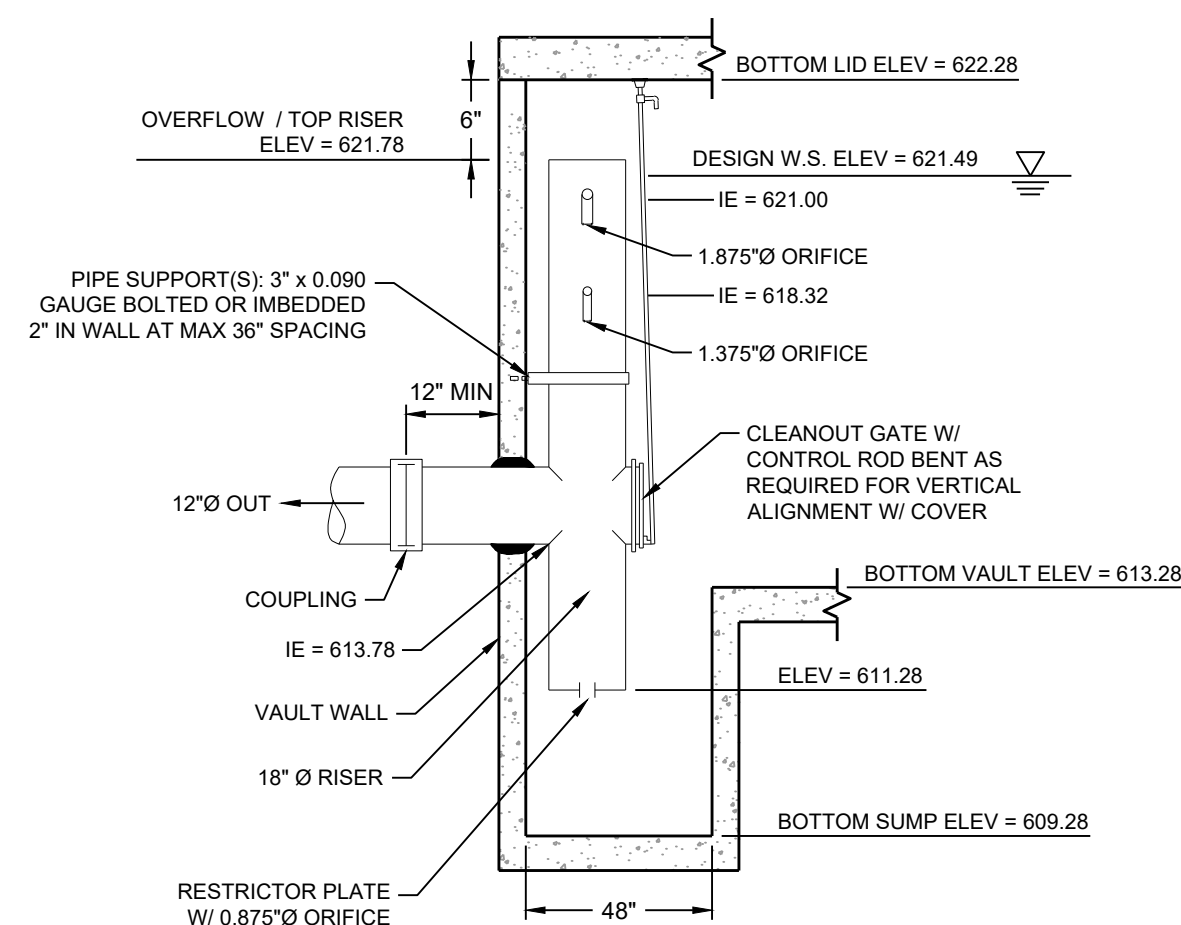
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PERMIT #

DEVELOPMENT ENGINEER

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PIERCE COUNTY ORDINANCE NOS: STORM 2021-45 ROAD 2022-7s

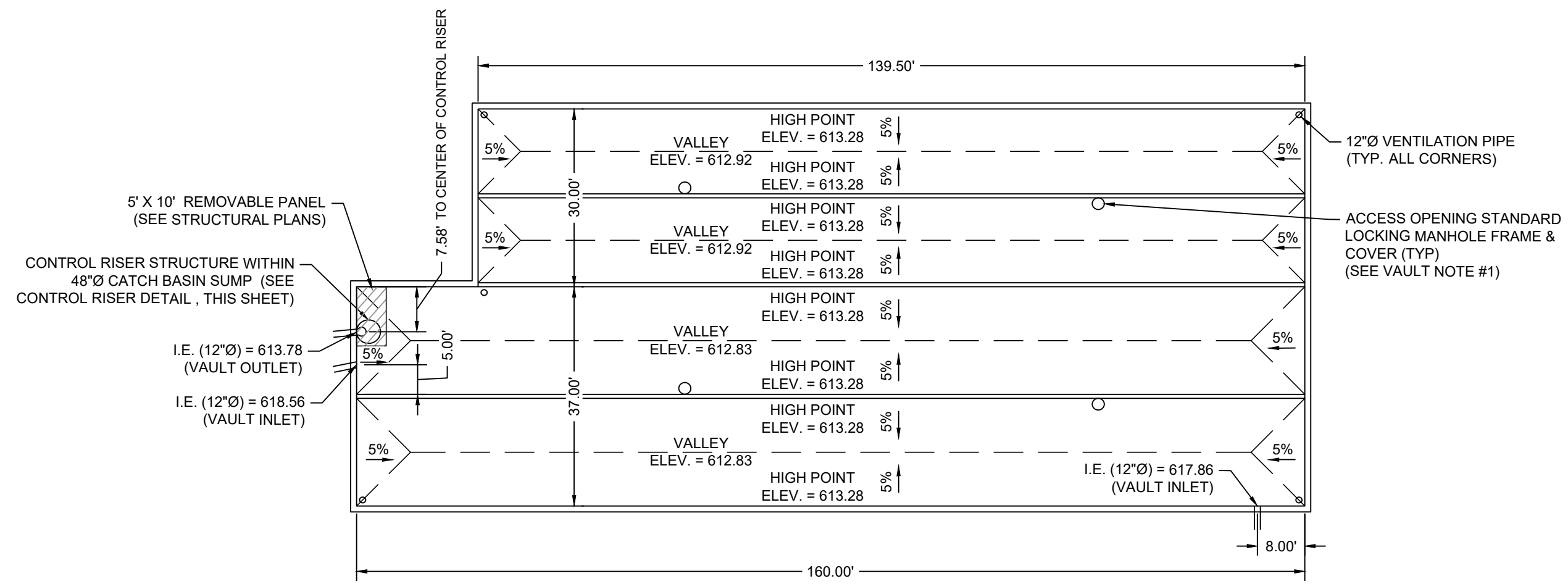
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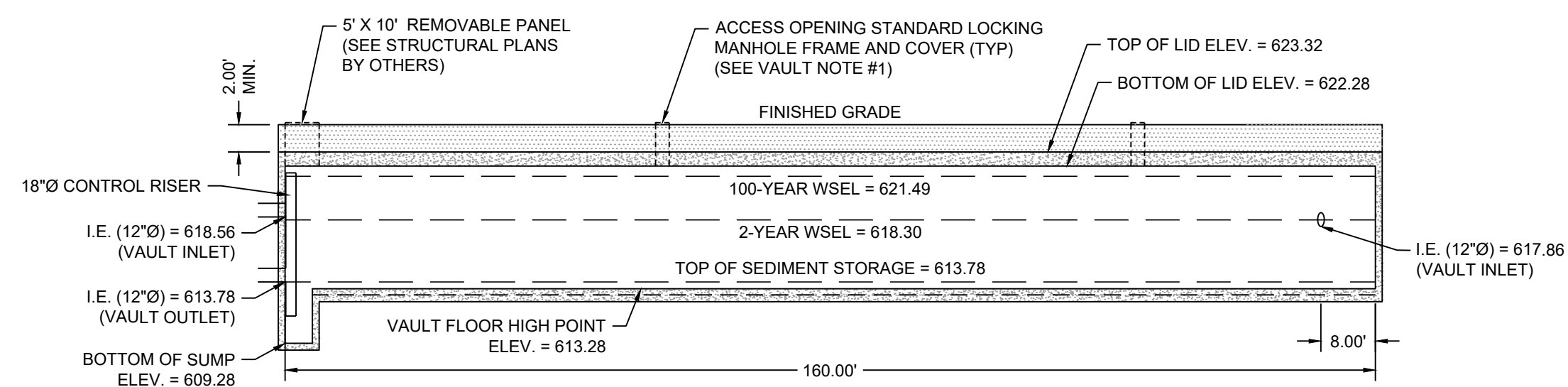
**NOTES:**

1. MAX W.S. ELEVATION IS EQUIVALENT TO 100-YEAR DESIGN FLOW.
2. THE PIPE SUPPORTS AND THE CONTROL RISER SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND BE ANCHORED AT A MAXIMUM SPACING OF 36". ATTACH THE PIPE SUPPORTS TO THE VAULT WALL WITH 5/8" STAINLESS STEEL EXPANSION BOLTS OR EMBED THE SUPPORTS INTO THE VAULT WALL 2".

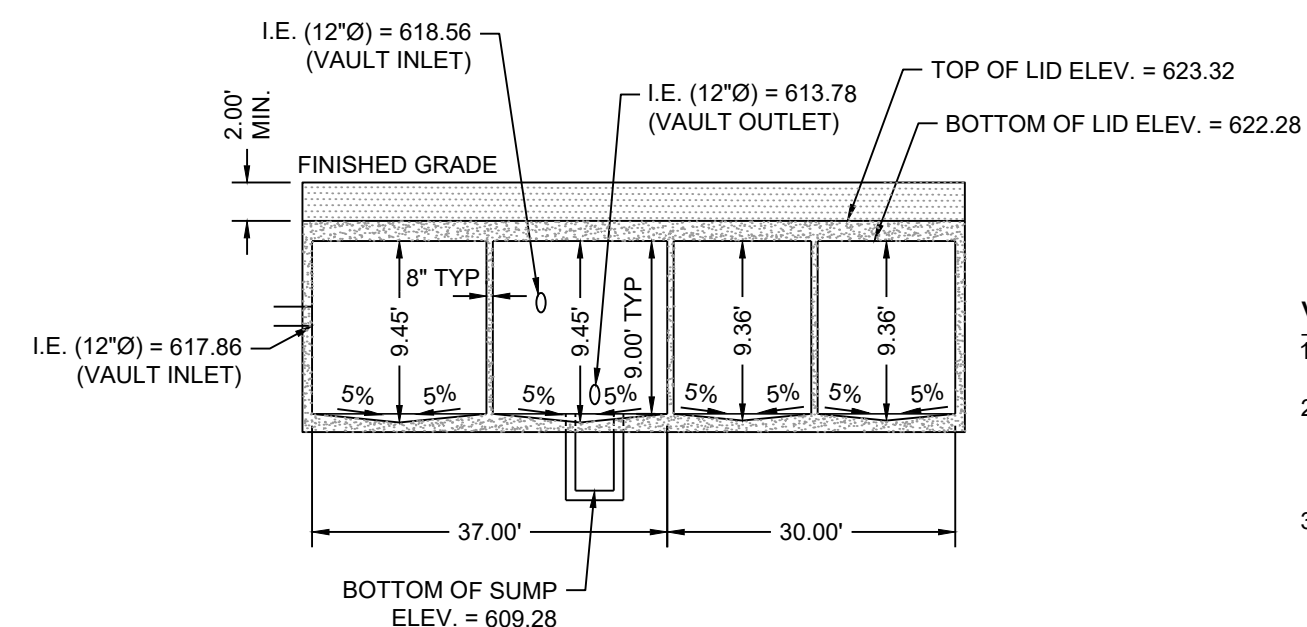
**1 CONTROL RISER DETAIL**  
SCALE: N.T.S.



**2 DETENTION VAULT DETAIL**  
SCALE: H: 1" = 20'  
V: 1" = 10'



**DETENTION VAULT - SOUTH ELEVATION**  
SCALE: H: 1" = 20'  
V: 1" = 10'



**DETENTION VAULT - EAST ELEVATION**  
SCALE: H: 1" = 20'  
V: 1" = 10'

**VAULT NOTES:**

1. POSITION ACCESS OPENINGS A MAXIMUM OF 50 FEET FROM ANY LOCATION WITHIN THE VAULT.
2. ALL ACCESS OPENINGS, EXCEPT THOSE COVERED BY REMOVABLE PANELS, SHALL HAVE ROUND, SOLID LOCKING LIDS, OR 3-FOOT SQUARE, LOCKING DIAMOND PLATE COVERS.
3. DETENTION VAULT BUOYANCY CALCULATIONS: BUOYANCY CALCULATIONS FOR THE PROPOSED DETENTION VAULTS ARE THE RESPONSIBILITY OF AND SHALL BE PROVIDED BY THE STRUCTURAL VAULT ENGINEER.

Notes & Details

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12988	02/11/2025	TGS	STN	STN

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