LEGAL DESCRIPTION: (PER ABOVE REFERENCED TITLE REPORT)

PARCEL "A"

THAT PORTION OF BLOCKS 34 TO 37, INCLUSIVE, OF REPLAT OF A PART OF FRANK R. SPINNING'S FIRST ADDITION TO THE TOWN OF PUYALLUP, PIERCE COUNTY, WASHINGTON, ACCORDING TO PLAT RECORDED IN BOOK 6 OF PLATS AT PAGE(S) 91, LYING NORTHERLY OF THE NORTHERN PACIFIC RAILWAY COMPANY RIGHT OF WAY, IN PUYALLUP, PIERCE COUNTY, WASHINGTON.

TOGETHER WITH THE SOUTH 30 FEET OF VACATED PIONEER AVENUE ABUTTING BLOCKS 34 AND 35 AS VACATED BY CITY OF PUYALLUP ORDINANCE NO. 211 RECORDED FEBRUARY 14. 1902 UNDER AUDITOR'S

A PARCEL OF LAND SITUATED WITHIN THE SOUTHEAST QUARTER OF SECTION 27, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON, DESCRIBED AS

BEGINNING AT THE SOUTHEAST CORNER OF BLOCK 33 OF REPLAT OF A PART OF FRANK R. SPINNING'S FIRST ADDITION TO THE TOWN OF PUYALLUP, PIERCE COUNTY, WASHINGTON, ACCORDING TO PLAT RECORDED IN BOOK 6 OF PLATS AT PAGE 91 THENCE NORTH 00°50' WEST 28.58 FEET ALONG THE EAST LINE OF SAID BLOCK 33; THENCE SOUTH 14'18'45" WEST 27.61 FEET TO A POINT ON THE SOUTH LINE OF SAID BLOCK 33; THENCE SOUTH 75°49' EAST 7.47 FEET ALONG SAID SOUTH LINE TO THE POINT OF BEGINNING, IN PUYALLUP, PIERCE COUNTY, WASHINGTON.

THAT PORTION OF THE SOUTHEAST OF SECTION 27, TOWNSHIP 20 NORTH, RANGE 4 EAST OF THE

WILLAMETTE MERIDIAN, IN PIERCE COUNTY, WASHINGTON, DESCRIBED AS FOLLOWS:

TOWNSHIP 20 NORTH, RANGE 4 EAST; THENCE NORTHERLY ALONG THE SECTION LINE COMMON TO SAID SECTIONS 26 AND 27. A DISTANCE OF 1578.0 FEET, MORE OR LESS, TO THE POINT OF INTERSECTION WITH A LINE DRAWN PARALLEL WITH AND DISTANT 51.13 FEET NORTHERLY OF, AS MEASURED AT RIGHT ANGLES TO, BURLINGTON NORTHERI RAILROAD COMPANY'S MAIN TRACK CENTERLINE, AS NOW LOCATED AND CONSTRUCTED THENCE NORTHWESTERLY DEFLECTING 74°59 TO THE LEFT FROM SAID SECTION LINE, ALONG SAID LINE LYING 51.13 FEET NORTHERLY OF AND PARALLEL WITH SAID MAIN TRACT CENTERLINE, A DISTANCE OF 493.0 FEET, MORE OR LESS, TO THE POINT OF INTERSECTION WITH THE WEST RIGHT OF WAY LINE OF FIFTEENTH STREET SOUTHEAST, AS NOW LOCATED IN THE CITY OF PUYALLUP, WASHINGTON SAID POINT BEING THE TRUE POINT OF BEGINNING OF THE PARCEL TO BE DESCRIBED

THENCE CONTINUING NORTHWESTERLY ALONG SAID PARALLEL LINE, 920.0 FEET, MORE OR LESS, TO THE POINT OF INTERSECTION WITH A LINE DRAWN PARALLEL WITH AND DISTANT 8.50 FEET NORTHERLY OF, AS MEASURED AT RIGHT ANGLES TO, THE MOST NORTHERLY SPUR TRACT OF SAID BURLINGTON NORTHERN RAILROAD COMPANY, AS NOW LOCATED AND CONSTRUCTED;

THENCE NORTHERLY, PARALLEL WITH THE WEST LINE OF BLOCK 32 OF REPLAT OF A PART OF FRANK R. SPINNING'S FIRST ADDITION TO THE TOWN OF PUYALLUP, ACCORDING TO PLAT RECORDED IN BOOK 6 OF PLATS AT PAGE 91. A DISTANCE OF 148.0 FEET: THENCE NORTHWESTERLY, PARALLEL WITH SAID LINE LYING 51.13 FEET NORTHERLY OF SAID RAILROAD COMPANY'S MAIN TRACT CENTERLINE, A DISTANCE OF 40.0 FEET; THENCE NORTHERLY, PARALLEL WITH SAID WEST LINE OF BLOCK 32, 106.0 FEET TO THE POINT OF INTERSECTION WITH A LINE DRAWN PARALLEL WITH AND DISTANT 300.0 FEET NORTHERLY OF AS MEASURED AT RIGHT ANGLES TO, SAID MAIN TRACT CENTERLINE;

THENCE EASTERLY ALONG SAID PARALLEL LINE, 946.0 FEET, MORE OR LESS, TO THE POINT OF INTERSECTION WITH THE WEST RIGHT OF WAY LINE OF FIFTEENTH STREET SOUTHEAST: THENCE SOUTHERLY ALONG SAID WEST RIGHT OF WAY LINE TO THE TRUE POINT OF BEGINNING, IN PIERCE COUNTY, WASHINGTON.

HORIZONTAL DATUM:

NAD 83/11 PER WSDOT PUBLISHED MONUMENTS. WSDOT CONTROL POINT "GP 27512-100" WAS HELD FOR POSITION, AND A LINE BETWEEN SAID POINT "GP 27512-100" AND CONTROL POINT "GP27512-18AZ" WAS HELD FOR ROTATION, BEING SOUTH 38°23'07" WEST.

VERTICAL DATUM:

VERTICAL CONTROL PUBLISHED BY WSDOT, POINT "GP 27512-100" WAS HELD FOR ELEVATION.

BENCHMARK ELEVATION = 81.27' SITE BENCHMARK:

SET MAGNAIL & WASHER #49 IN THE SIDEWALK ON THE WEST SIDE OF 15TH STREET S.E. ELEVATION =55.16' (NAVD 88)

CONSTRUCTION SEQUENCE:

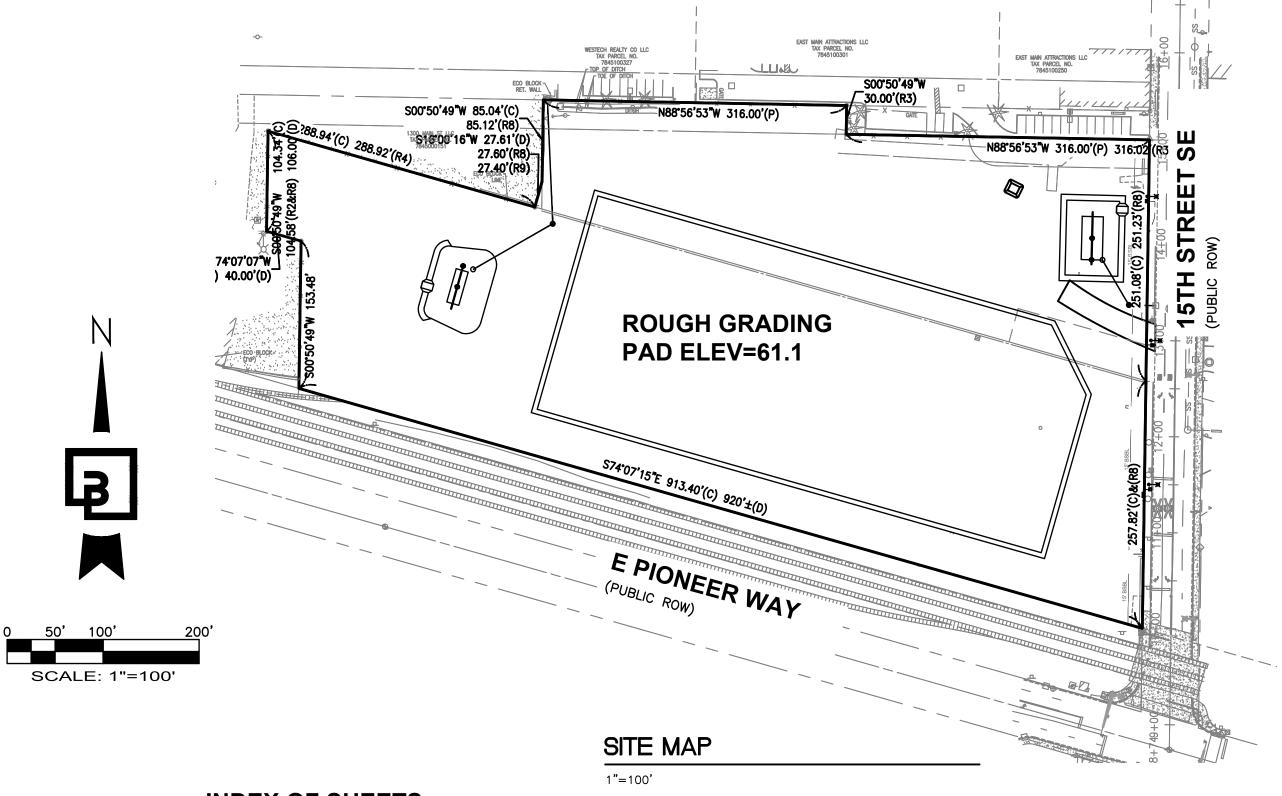
SCHEDULE AND ATTEND PRE-CONSTRUCTION MEETING WITH CITY OF PUYALLUP OFFICIALS.

- 2. INSTALL FLAGS AND CLEARING AND GRADING LIMITS FOR PROJECT AS SHOWN ON THE TESC PLANS.
- 3. INSTALL TEMPORARY CONSTRUCTION ENTRANCE AS SHOWN ON TESC PLANS.
- 4. INSTALL TEMPORARY FILTER FABRIC FENCE AS SHOWN ON TESC PLANS.
- TIME LIMIT APPLIES TO ANY WORK PERFORMED IN THE CITY OF PUYALLUP ROW. CONTRACTOR TO COORDINATE WITH CITY OFFICIAL FOR TIMING OF ANY CONSTRUCTION WITHIN ROW.
- 6. PROTECT ALL PROPERTIES ADJACENT TO THE PROJECT FROM SEDIMENT DEPOSITION.
- 7. NO RUNOFF IS TO LEAVE SITE WITHOUT TREATMENT.
- 8. EROSION CONTROL MEASURES MUST BE IN PLACE PRIOR TO ANY CLEARING, GRADING OR CONSTRUCTION.
- 9. INSTALL TEMPORARY SEDIMENT AND EROSION CONTROL PONDS.
- 10. INSTALL INTERCEPTOR DITCHES WHERE SHOWN, REVISE AS NECESSARY TO FACILITATE CONSTRUCTION.
- 11. SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
- 12. CLEAR AND GRADE SITE AMEND E.S.C. FACILITIES AS REQUIRED. ANY AMENDED PLANS MUST BE SUBMITTED, REVIEWED AND APPROVED BY THE CITY OF FIFE.
- 13. WHEREVER CONSTRUCTION VEHICLES ACCESS ROUTE CROSSES PAVED ROADS, CARE MUST BE MADE TO MINIMIZE THE TRANSPORT OF SEDIMENT (MUD) ONTO THE PAVED ROAD. IF SEDIMENT IS TRANSPORTED ONTO PAVED SURFACE, THE ROAD SHALL BE CLEANED THOROUGHLY AT THE END OF EACH DAY.
- 14. INTERCEPTOR DITCHES AND T.E.S.C. FACILITIES MUST BE GRADED AND MAINTAINED TO PROVIDE POSITIVE SLOPE FOR DRAINAGE TO DISCHARGE POINT.
- 15. ALL DISTURBED AREAS AND EXISTING DITCHES WHICH HAVE BEEN EFFECTED BY GRADING OPERATION SHALL BE HYDROSEEDED UPON COMPLETION OF GRADING ACTIVITIES AND IN ACCORDANCE WITH GRADING AND TEMPORARY EROSION AND SEDIMENTATION CONTROL NOTES.
- 16. CONTINUOUS MAINTENANCE AND UPGRADE OF T.E.S.C. MEASURES, INCLUDING DUST CONTROL, SHALL BE PROVIDED THROUGH CONSTRUCTION.
- 17. MAINTAIN E.S.C. FACILITIES UNTIL ALL RISK OF EROSION/SEDIMENTATION DRAINAGE HAS PASSED AND PERMANENT STORM DRAINAGE SYSTEM IS INSTALLED AND FUNCTIONAL. DO NOT CONVEY SEDIMENT-LADEN WATER INTO STORM DRAINAGE SYSTEM. TEMPORARY EROSION & SEDIMENTATION CONTROL FACILITIES CAN BE REMOVED ONLY UPON FINAL SITE STABILIZATION AND APPROVAL FROM CITY OFFICIAL.

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PORTION OF SE QUARTER OF SEC 27, TWN 20 N, RGE. 4 E, W.M. CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

# COVER SHEET ROUGH GRADING AND TESC PLANS



### **INDEX OF SHEETS**

- **COVER SHEET**
- **EXISTING CONDITIONS/DEMOLITION PLAN**
- **ROUGH GRADING AND TESC PLAN**
- ROUGH GRADING SECTIONS
- **CONSTRUCTION NOTES AND DETAILS**
- CONSTRUCTION NOTES AND DETAILS
- **CONSTRUCTION NOTES AND DETAILS**

\_\_\_\_\_

# BASIS OF PLAN

THIS SITE PLAN IS BASED ON LIMITED TOPOGRAPHIC AND BOUNDARY SURVEY, PREPARED BY BCE, INC. DATED 08/09/2022

THE EXISTING CULTURAL AND TOPOGRAPHIC DATA SHOWN ON THESE DRAWINGS HAS BEEN PREPARED, IN PART, BASED UPON INFORMATION FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, BCE, INC. CANNOT ENSURE ACCURACY AND THUS IS NOT RESPONSIBLE FOR THE ACCURACY OF THAT INFORMATION OR FOR ANY ERRORS OR OMISSIONS WHICH MAY HAVE BEEN INCORPORATED INTO THESE DRAWINGS AS A RESULT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH THE OWNER TO HAVE ALL IMPROVEMENTS FIELD VERIFIED PRIOR TO CONSTRUCTION. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BARGHAUSEN CONSULTING ENGINEERS, INC. PRIOR TO

# **ESTIMATED EARTHWORK VOLUMES:**

(FOR PERMITTING ONLY. NOT FOR BID PURPOSES) EARTHWORK, STRIPPING EXPORT = 2,000 CY ON-SITE CUT/FILL = 7.000 CYEARTHWORK, STRUCTURAL IMPORT = 22,000 CY

# **SOURCE OF PLAN:**

THIS SITE PLAN IS BASED ON THE ALTA LAND TITLE SURVEY PREPARED BY BARGHAUSEN CONSULTING ENGINEERS, INC. (DATED AUGUST 9, 2022). PROPOSED SITE IMPROVEMENTS WERE PRÓVIDED BY MACKENZIE ARCHITECTS DATE 9-30-2022.

# **HORIZONTAL CONTROL / SURVEY NOTE:**

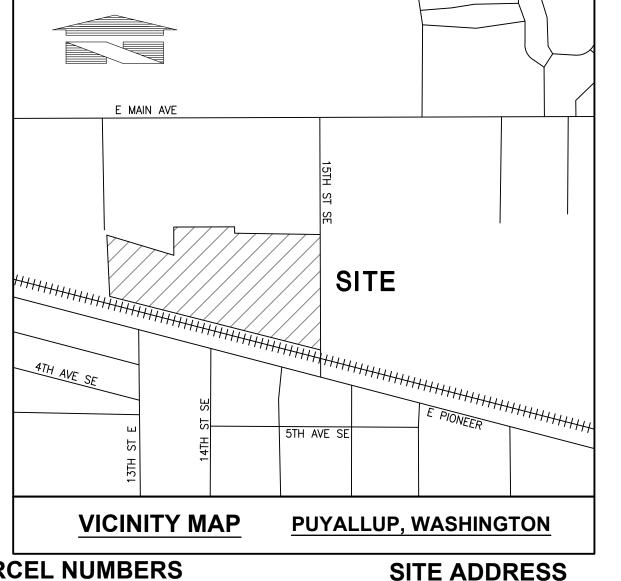
- 1. CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL AND VERTICAL CONTROL FOR ALL NEW IMPROVEMENTS. CONTRACTOR SHALL CONTACT BARGHAUSEN CONSULTING ENGINEERS, INC. TO OBTAIN ELECTRONIC CAD FILES FOR STAKING PURPOSES.
- 2. UNDERGROUND UTILITIES AND FEATURES DEPICTED HERON ARE BASED ON FIELD OBSERVATION, MARKINGS, DEVELOPMENT PLANS, AND/OR BEST AVALIBLE RECORD DOCUMENTS ONLY. CONTRACTOR SHALL FIELD VERIFY SIZE AND TYPE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION, DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF BARGHAUSEN CONSULTING ENGINEERS, INC. PRIOR TO WORK.

For the next submission include a completed Cost Estimate found here: https://www.cityofpuyallup.org/1591/Master-Do cument-List#C to determine the engineering inspection fee. [CFG plans, pg 1]

CFG cost estimate completed and included in resubmittal.

T.E.S.C. LEGEND

# EXISTING TYPE II CATCH BASIN EXISTING TYPE I CATCH BASIN EXISTING STORM DRAINAGE LINE EXISTING SANITARY SEWER MANHOLE EXISTING SANITARY SEWER LINE EXISTING WATERMAIN \_\_\_\_ \_ w \_\_ \_ \_ EXISTING FIRE HYDRANT EXISTING WATER VALVE **EXISTING SPOT ELEVATIONS** EXISTING CONTOURS \_\_\_\_\_100 \_\_\_\_ PROPOSED CONTOURS -----100 -----SILTATION FENCE TEMPORARY CONSTRUCTION ENTRANCE FLOW ARROW $\longrightarrow$ TEMPORARY DRAINAGE DITCH CLEARING LIMITS GROUND WATER MONITORING WELL



TAX PARCEL NUMBERS 7845000161, 7845000170, 0420274126

# **ZONING**

ML - LIMITED MANUFACTURING

# OWNER/APPLICANT

CREF3 PUYALLUP OWNER LLC 11611 SAN VICENTE BLVD, 10TH FLOOR LOS ANGELES, CA 90049

### **CIVIL ENGINEERING CONSULTANT:**

BARGHAUSEN CONSULTING ENGINEERS 18215 72ND AVENUE SOUTH KENT, WA. 98032 (425) 251-6222 (425) 251-8782 (FAX) EMAIL: ihubbell@barghausen.com

# SITE SURVEY CONSULTANT:

BARGHAUSEN CONSULTING ENGINEERS 18215 72ND AVENUE SOUTH KENT, WA. 98032 (425) 251-6222 (425) 251-8782 (FAX)

# **SOILS REPORT NOTES**

GEOTECHNICAL REPORT, PROJECT NO. T-8661 DATED: JAN 12TH 2022:

240 - 15TH STREET SE INDUSTRIAL 240 - 15TH STREET SE

PUYALLUP, WASHINGTON PREPARED BY: TERRA ASSOCIATES, INC. 12220 113TH AVENUE NE, STE. 130

PAVING CONSTRUCTION.

KIRKLAND, WASHINGTON 98034 2. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO ENSURE THAT ALL PROVISIONS OF THE SOILS REPORT FOR THE SITE BE OBSERVED AND COMPLIED WITH DURING ALL PHASES OF THE SITE PREPARATION, GRADING OPERATIONS, AND

3. ANY PROVISIONS OF THE SOILS REPORT WHICH CONFLICT WITH INFORMATION SHOWN ELSEWHERE ON THESE DRAWINGS, OR WHICH REQUIRE FURTHER CLARIFICATION, SHALL BE BROUGHT TO THE ATTENTION OF BARGHAUSEN ENGINEERS.

4. A REPRESENTATIVE FOR THE SOILS ENGINEER SHALL BE AVAILABLE TO OBSERVE AND APPROVE THE EARTHWORK OPERATIONS AND TO VERIFY FIELD CONDITIONS AS WORK PROCEEDS. THE SOILS ENGINEER SHALL SUBMIT FIELD REPORTS CERTIFYING THAT THE METHODS AND MATERIALS OF THE EARTHWORK OPERATIONS WERE IN ACCORDANCE WITH THE RECOMMENDATION OF THE SOILS INVESTIGATION AND THAT THE WORK WAS PERFORMED TO THE SATISFACTION OF THE ENGINEER. THE CONTRACTOR SHALL MAKE ALL PROVISIONS FOR SOILS INSPECTIONS AS RECOMMENDED WITHIN SOILS REPORT AS A MINIMUM, THIS INCLUDES THE OBSERVATION OF THE FOLLOWING BY A SOILS ENGINEER: UTILITY TRENCH EXCAVATIONS, UTILITY PIPE BEDDING, SUBGRADE STABILITY FOOTING SUBGRADE CONDITIONS, STRUCTURAL FILL OBSERVATIONS AND TESTING, SITE DRAINAGE MEASURES AND OBSERVATIONS, PAVEMENT SUBGRADE OBSERVATIONS, EROSION CONTROL, SITE STABILITY INCLUDING TEMPORARY AND PERMANENT SLOPES.

5. THE SOILS ENGINEER SHOULD BE NOTIFIED AT LEAST FIVE (5) WORKING DAYS PRIOR TO ANY SITE CLEARING OR GRADING.

# **UTILITY CONFLICT NOTE:**

RESPONSIBILITY OF THE CONTRACTOR.

CAUTION:

THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION, AND DEPTH OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT BY POTHOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POTHOLING ALL OF THE EXISTING UTILITIES AT LOCATIONS OF NEW UTILITY CROSSINGS TO PHYSICALLY VERIFY WHETHER OR NOT CONFLICTS EXIST. LOCATIONS OF SAID UTILITIES AS SHOWN ON THESE PLANS ARE BASED UPON THE UNVERIFIED PUBLIC INFORMATION AND ARE SUBJECT TO VARIATION. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.

CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR OBTAINING PERMITS FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES FOR REMOVING AND REPLACING ALL SURVEY MONUMENTATION THAT MAY BE AFFECTED BY CONSTRUCTION ACTIVITY, PURSUANT TO WAC 332-120. APPLICATIONS MUST BE COMPLETED BY A REGISTERED LAND SURVEYOR. APPLICATIONS FOR PERMITS TO REMOVE MONUMENTS MAY BE OBTAINED FROM THE WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES, OR BY CONTACTING THEIR OFFICE BY TELEPHONE AT (360) 902-1190.

WASHINGTON STATE DEPARTMENT OF NATURAL RESOURCES PUBLIC LAND SURVEY OFFICE 801 88th AVE S.E. OLYMPIA, WASHINGTON 98501-7019

UPON COMPLETION OF CONSTRUCTION, ALL MONUMENTS DISPLACED, REMOVED, OR DESTROYED SHALL BE REPLACED BY A REGISTERED LAND SURVEYOR, AT THE COST AND AT THE DIRECTION OF THE CONTRACTOR, PURSUANT TO THESE REGULATIONS. THE APPROPRIATE FORMS FOR REPLACEMENT OF SAID MONUMENTATION SHALL ALSO BE THE

# **UTILITIES/SERVICES**

900

SHEI

OVER DING

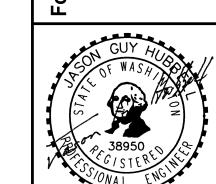
CITY OF PUYALLUP WATER DIVISION 1100 39TH AVE. SE PUYALLUP, WA 98374 (253) 841-5505

PUGET SOUND ENERGY 8001 SOUTH 212TH STREET KENT, WA 98032 (253) 395-7065

240 15TH STREET SE

PUYALLUP, WA 98372

PUGET SOUND ENERGY 8001 SOUTH 212TH STREET KENT, WA 98032 (253) 395-7065



ngin

Know what's **below**.

**APPROVED** 

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID

THE CITY WILL NOT BE

DETERMINED BY THE

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE

CHANGES TO THESE PLANS AS

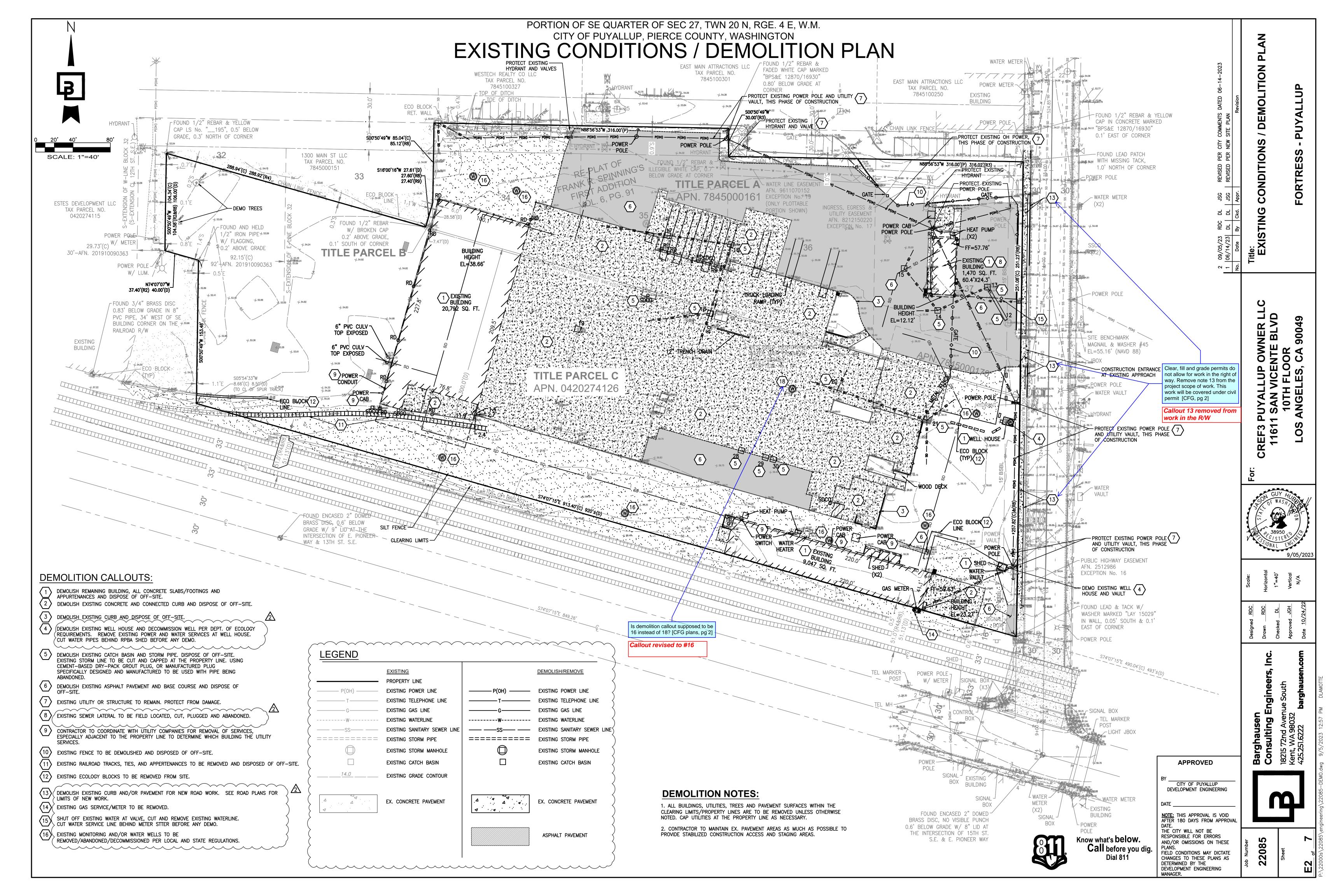
DEVELOPMENT ENGINEERING

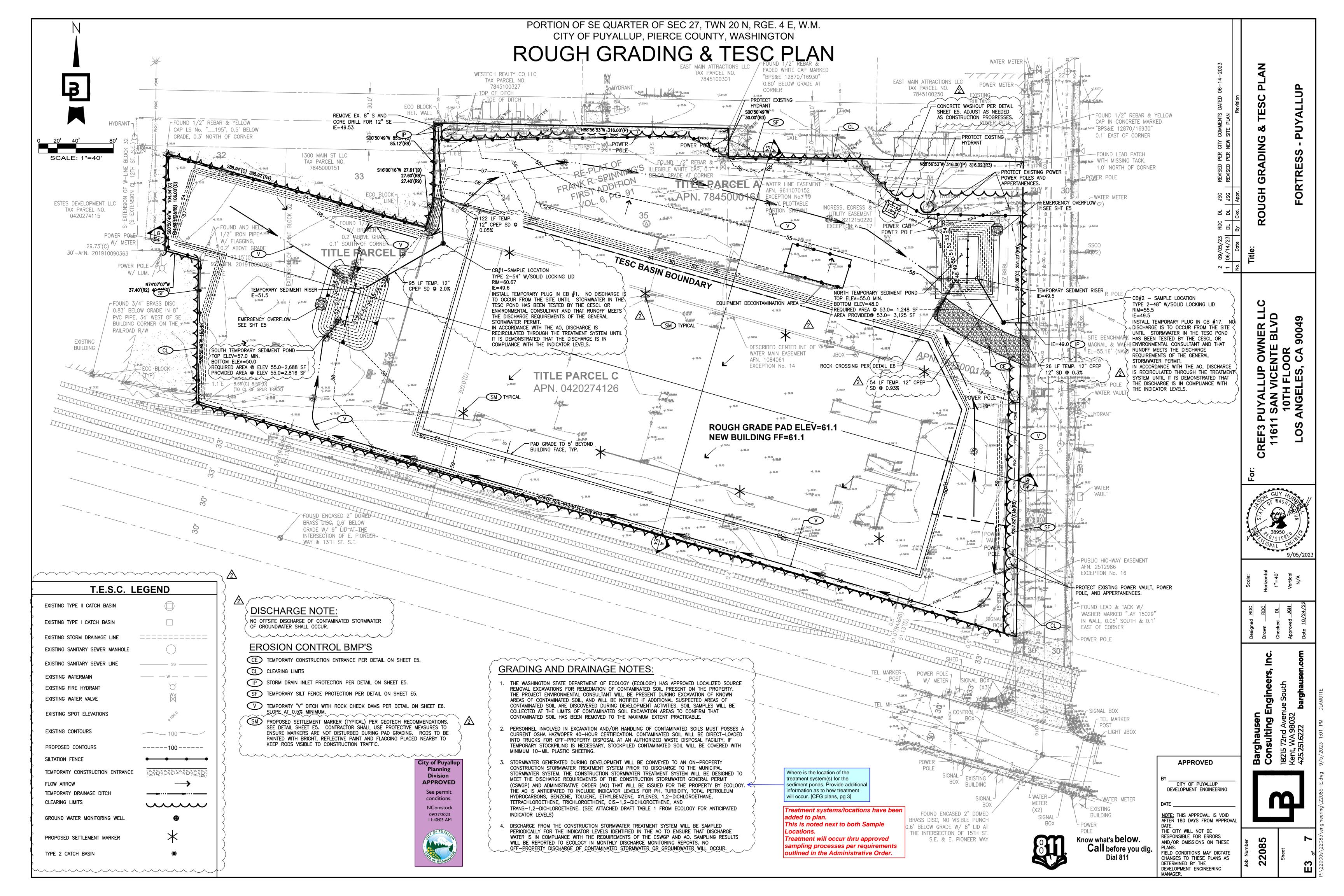
AFTER 180 DAYS FROM APPROVAL

Call before you dig.

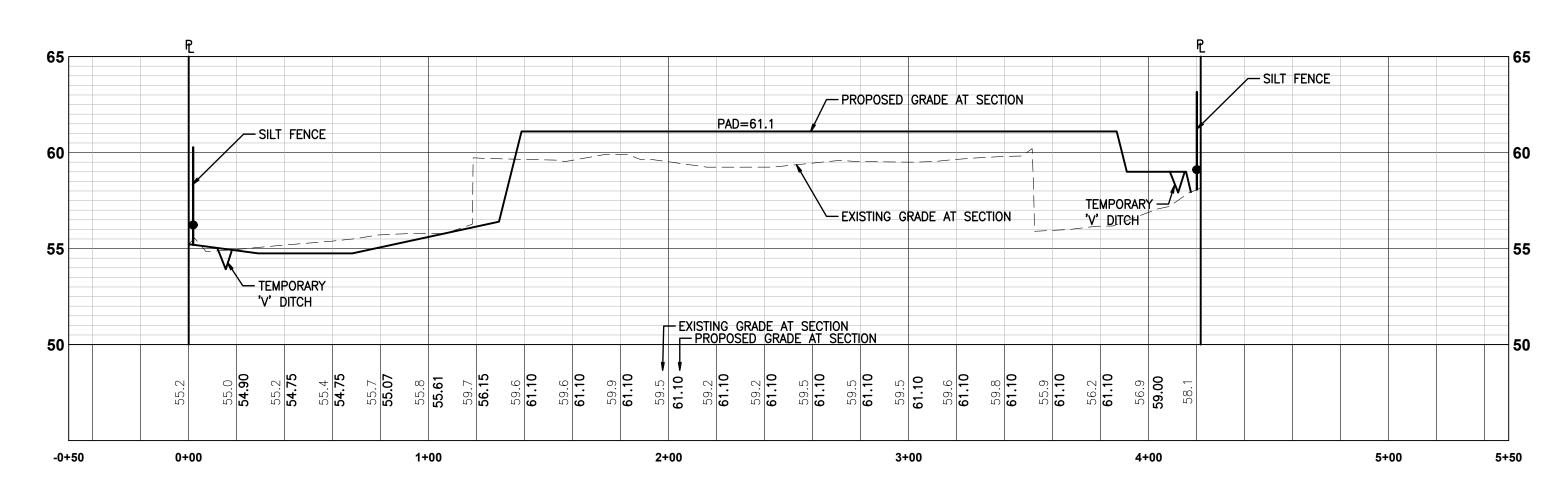
rghauser nsulting

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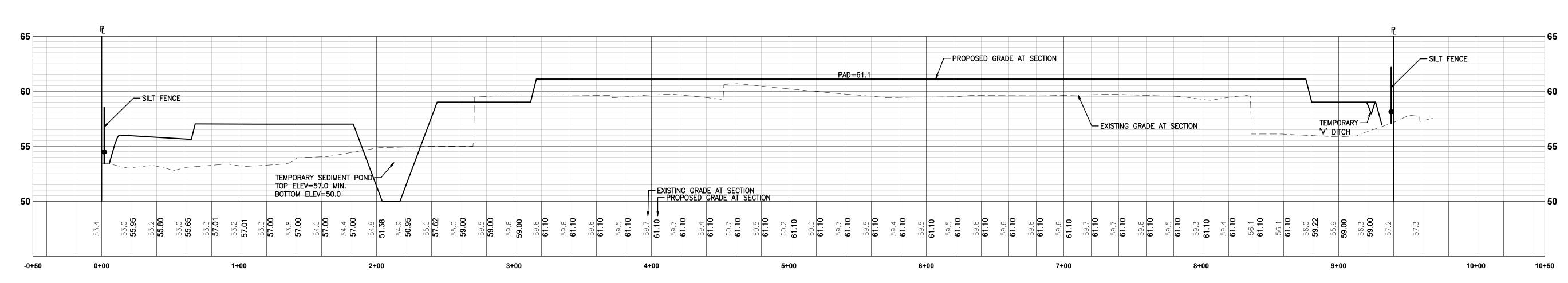


# ROUGH GRADING SECTIONS



# TESC SECTION A-A

1"=40' HORIZ, 1"=5' VERT



TESC SECTION B-B

1"=40' HORIZ, 1"=5' VERT

SECTIONS

Barghausen
Consulting Engineers, I
18215 72nd Avenue South
Kent, WA 98032
425.251.6222 barghausen.c

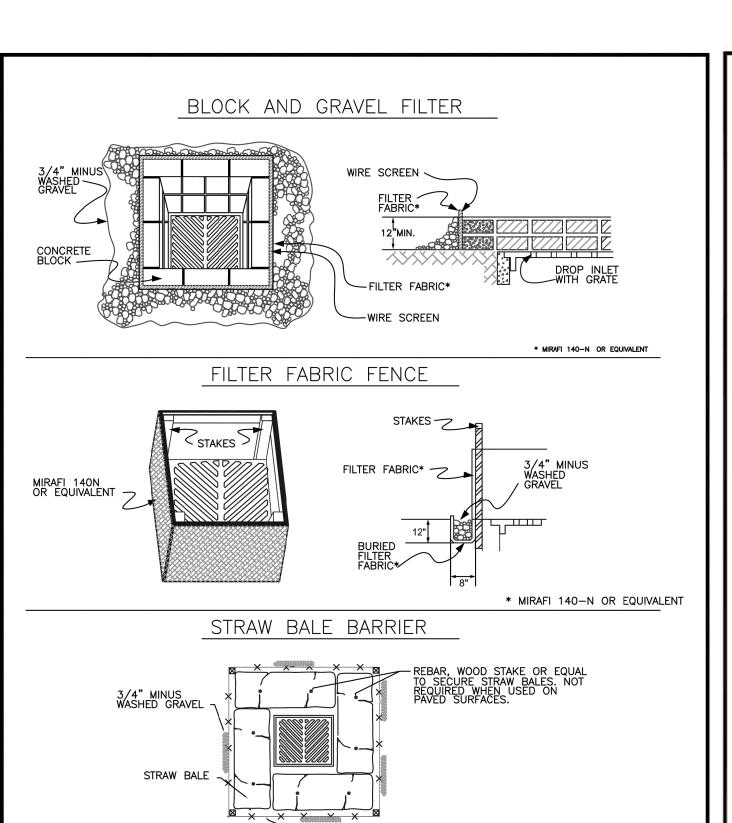
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.
FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

**APPROVED** 

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

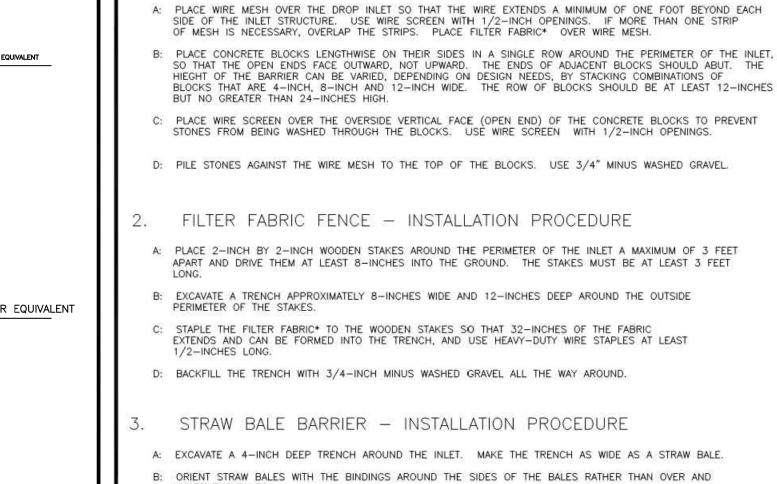
22085

# CONSTRUCTION NOTES AND DETAILS



SILT FENCE CONTINUOUS AROUND STRAW BALES.
 SUPPORT AT CORNERS WITH WOOD STAKES.

STORM DRAIN **BARRIERS** 



C: PLACE BALES LENGTHWISE AROUND THE INLET AND PRESS THE ENDS OF ADJACENT BALES SECURELY

F: WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

E: BACKFILL THE EXCAVATED SOIL AND COMPACT IT AGAINST THE BALE.

CITY OF

DEPARTMENT OF

State of Washington

PUYALLUP

PUBLIC WORKS DEPARTMENTS

D: DRIVE TWO 2-INCH BY 2-INCH STAKES THROUGH EACH BALE TO ANCHOR THE BALE SECURELY IN PLACE.

\* MIRAFI 140-N OR EQUIVALENT

Revised June 2015

STORM DRAIN

**BARRIERS NOTES** 

CONDITIONS WHERE PRACTICE APPLIES

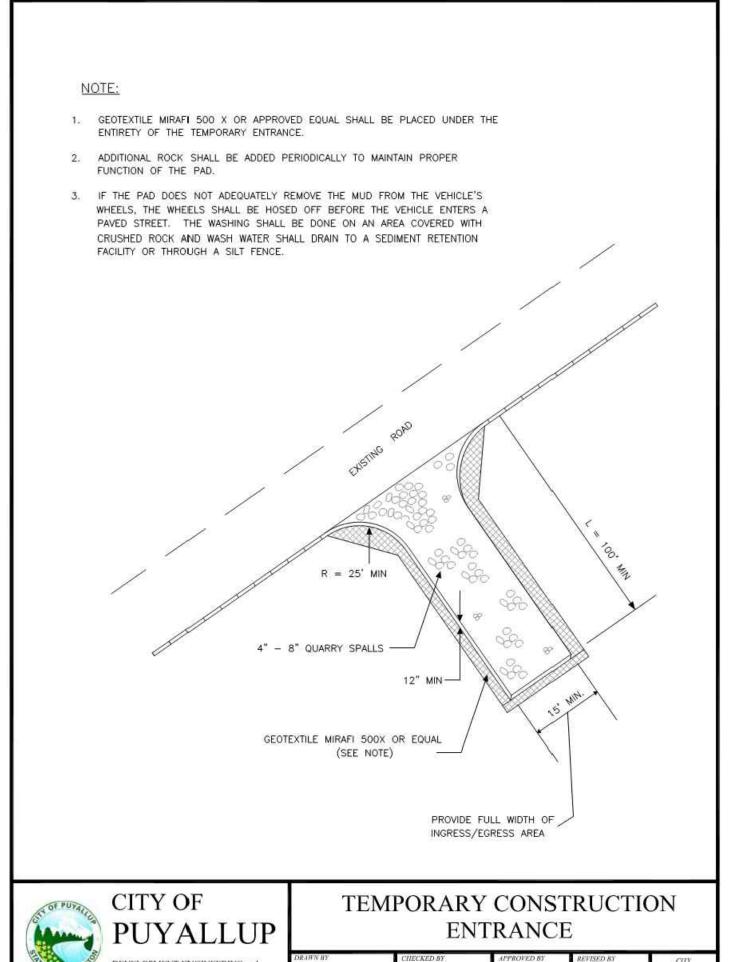
AND FLAT AREA (LESS THAN 5% SLOPE).

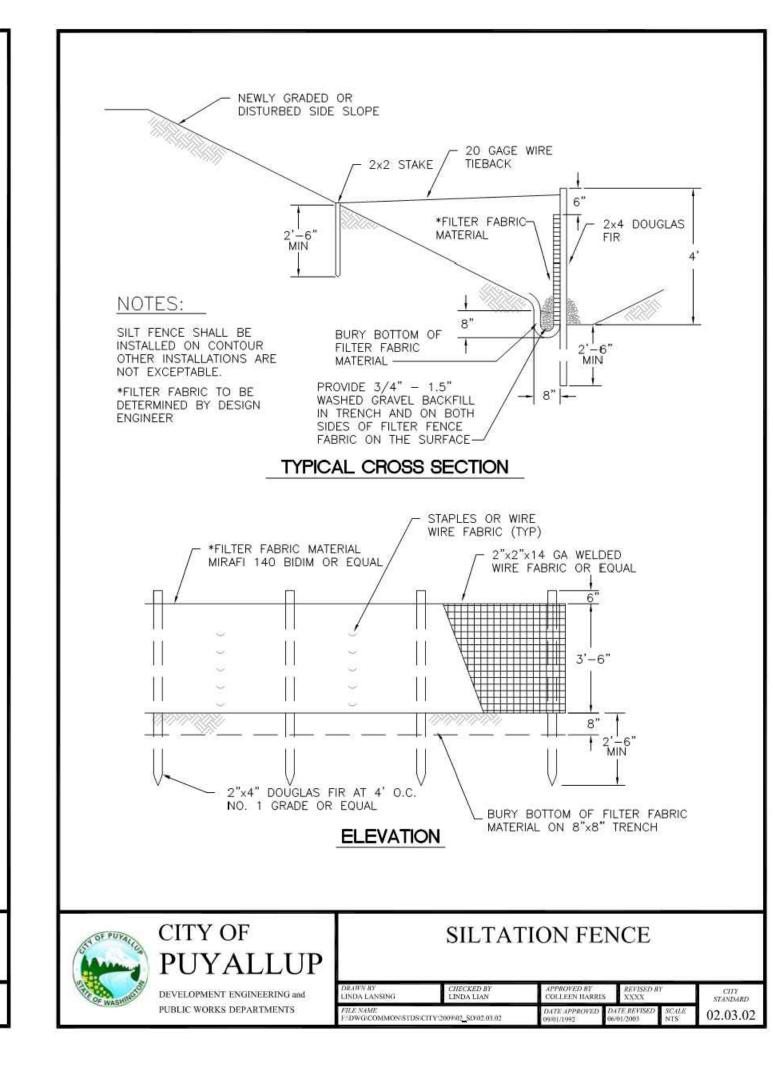
1. BLOCK AND GRAVEL FILTER - APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.

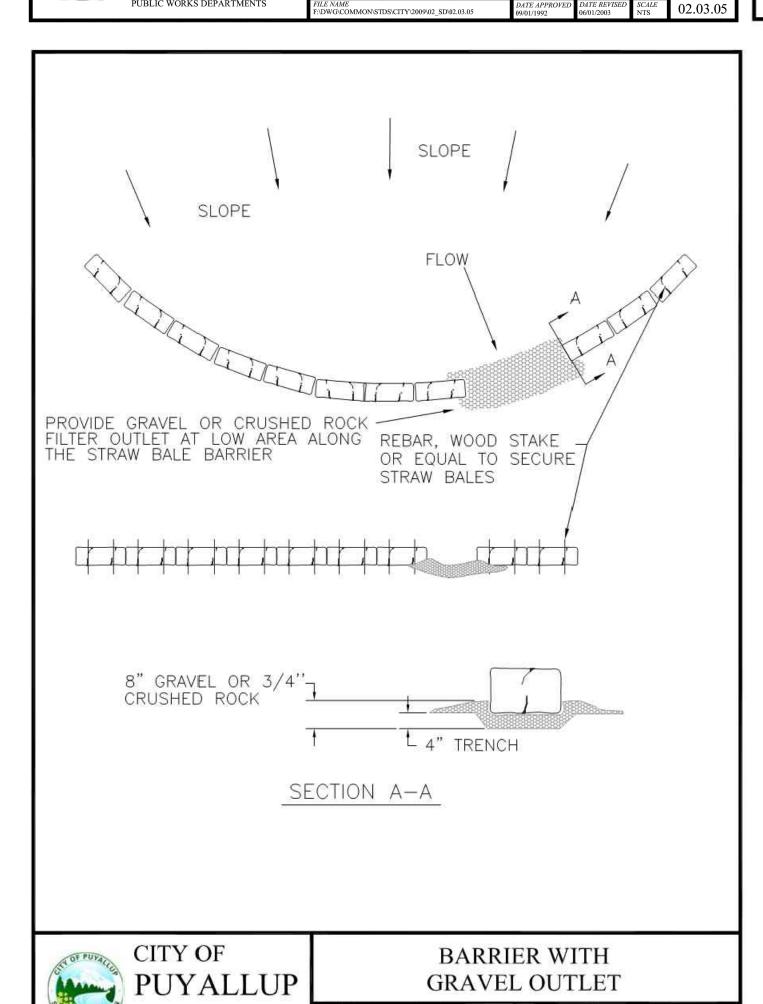
2. FILTER FABRIC FENCE - APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS)

BLOCK AND GRAVEL FILTER - INSTALLATION PROCEDURE

3. STRAW BALE BARRIER - APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA ( LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC.) OCCURES. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS

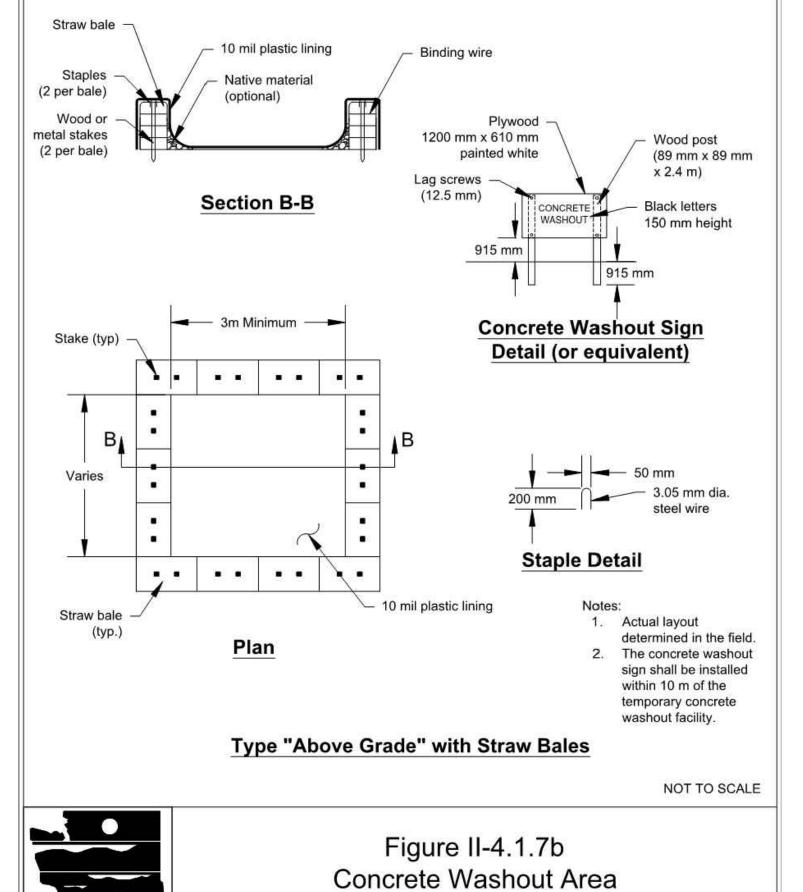






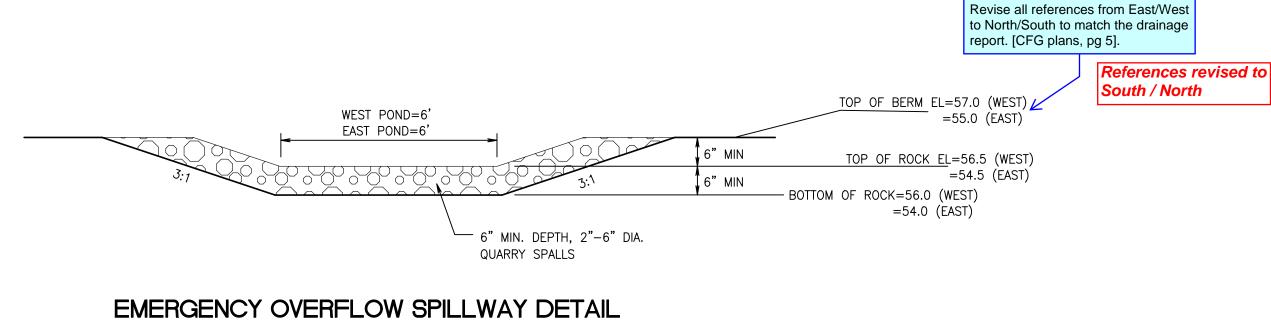
DEVELOPMENT ENGINEERING and

PUBLIC WORKS DEPARTMENTS

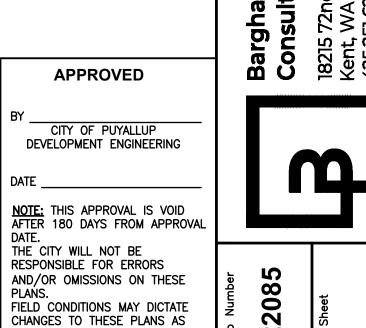


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DETERMINED BY THE

DEVELOPMENT ENGINEERING

2208

TION

90049

Barghausen Consulting Enginee

# CONSTRUCTION NOTES AND DETAILS

# MATERIALS OF CONSTRUCTION

NEEDLE PUNCHED NON-WOVEN

GEOTEXTILE MATERIAL. FABRIC IS IS RESISTANT TO ULTRAVIOLET AND BIOLOGICAL DEGRADATION AND A BROAD RANGE OF CHEMICALS.

APPARENT OPENING SIZE (AOS): 80 US STANDARD SIEVE (0.180 MM) GRAB TENSILE STRENGTH: 200 LBS

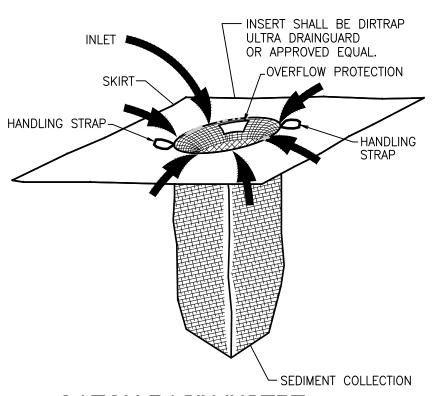
PUNCTURE STRENGTH: 130 LBS 400 PSI MULLEN BURST: TRAPEZOIDAL TEAR: 85 LBS WATER FLOW RATE: 110 GPM/FT2 PERMEABILITY: 0.38 CM/SECOND

# **DIMENSIONS:**

24"x36" SOCK FILTER/SEPARATOR:

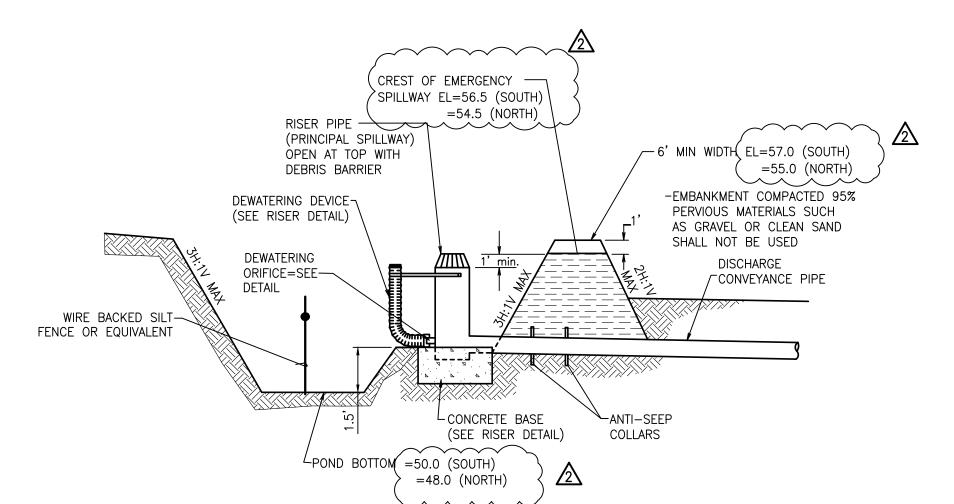
### **DISPOSAL REQUIREMENTS:**

CONSULT FEDERAL, STATE, AND LOCAL REGULATIONS FOR DISPOSAL OF INSERTS



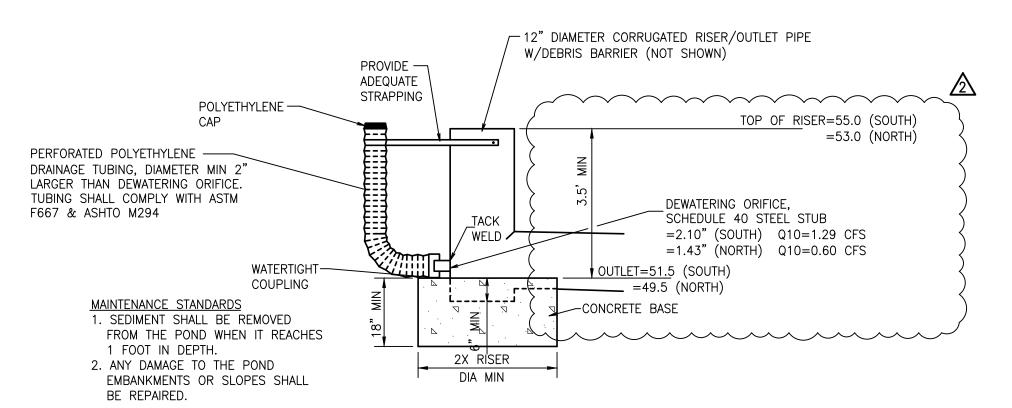
CATCH BASIN INSERT

NOT TO SCALE



# SEDIMENT POND CROSS SECTION

NOT TO SCALE



# SEDIMENT POND RISER

NOT TO SCALE

# Terra Associates, Inc. Consultants in Geolechnical Engineering Geology and Environmental Earth Sciences

-BACKFILL SWALE W/4-6" QUARRY SPALLS IN ROAD AREAS. SEE TEMPORARY "V" DITCH DETAIL FOR MAINTENANCE STANDARDS ON THIS SHEET

# TEMPORARY ROAD X-ING SWALE

NOT TO SCALE

SOUND LOWLANDS REGION.

TYPICAL SETTLEMENT MARKER DETAIL

240 - 15TH STREET SE INDUSTRIAL

Date JAN 2022

PUYALLUP, WASHINGTON

PROTECTIVE SLEEVE

SURCHARGE

HEIGHT VARIES (SEE NOTES)

NOT TO SCALE

BASE CONSISTS OF 3/4" THICK, 2'x2" PLYWOOD WITH CENTER DRILLED 5/8" DIAMETER HOLE.

ADDITIONAL SECTIONS OF STEEL ROD CAN BE CONNECTED WITH THREADED COUPLINGS. ADDITIONAL SECTIONS OF PLASTIC PROTECTIVE SLEEVE CAN BE CONNECTED WITH PRESS-FIT

9. PLASTIC PROTECTIVE SLEEVE SHOULD EXTEND AT LEAST 1" ABOVE TOP OF FILL SURFACE

8. STEEL MARKER ROD SHOULD EXTEND AT LEAST 6" ABOVE TOP OF PLASTIC PROTECTIVE SLEEVE.

BEDDING MATERIAL, IF REQUIRED, SHOULD CONSIST OF CLEAN COARSE SAND.

4. MARKER ROD IS ATTACHED TO BASE BY NUT AND WASHER ON EACH SIDE OF BASE. 5. PROTECTIVE SLEEVE SURROUNDING MARKER ROD SHOULD CONSIST OF 2" DIAMETER

MARKER ROD IS 1/2" DIAMETER STEEL ROD THREADED AT BOTH ENDS.

PLASTIC TUBING. SLEEVE IS NOT ATTACHED TO ROD OR BASE.

SURCHARGE

OR FILL

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 THE FOLLOWING ORGANIC CONTENT REQUIREMENTS: 3.1. THE ORGANIC CONTENT FOR PRE-APPROVED AMENDMENT RATES CAN BE MET ONLY USING COMPOST MEETING THE COMPOST SPECIFICATION FOR BMP T7.30: BIORETENTION, WITH THE EXCEPTION THAT THE COMPOST MAY HAVE UP TO 35% BIOSOLIDS OR

THE COMPOST MUST ALSO HAVE AN ORGANIC MATTER CONTENT OF 40% TO 65%, 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

3.2. THE CALCULATED AMENDMENT 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 CONDUCIVE TO THE TYPE OF VEGETATION TO BE ESTABLISHED.

### THE SOIL QUALITY DESIGN GUIDELINES LISTED ABOVE CAN BE MET BY USING ONE OF THE METHODS LISTED BELOW: LEAVE UNDISTURBED NATIVE VEGETATION AND SOIL, AND PROTECT FROM COMPACTION DURING CONSTRUCTION.

AMEND EXISTING SITE TOPSOIL OR SUBSOIL EITHER AT DEFAULT "PRE-APPROVED" RATES, OR AT CUSTOM CALCULATED RATES BASED ON TESTS OF THE SOIL AND AMENDMENT.

STOCKPILE EXISTING TOPSOIL DURING GRADING, AND REPLACE IT PRIOR TO PLANTING. STOCKPILED TOPSOIL MUST ALSO BE AMENDED IF NEEDED TO MEET THE ORGANIC MATTER OR DEPTH

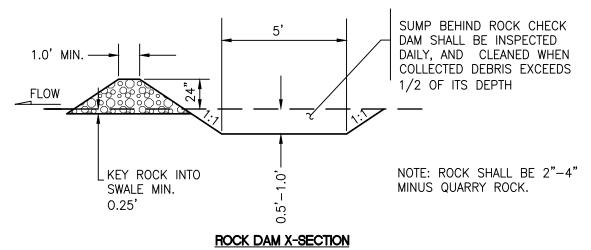
REQUIREMENTS, EITHER AT A DEFAULT "PRE-APPROVED" RATE OR AT A CUSTOM CALCULATED RATE. IMPORT TOPSOIL MIX OF SUFFICIENT ORGANIC CONTENT AND DEPTH TO MEET THE REQUIREMENTS.

MORE THAN ONE METHOD MAY BE USED ON DIFFERENT PORTIONS OF THE SAME SITE. SOIL THAT ALREADY MEETS THE DEPTH AND ORGANIC MATTER QUALITY STANDARDS, AND IS NOT COMPACTED, DOES NOT NEED TO BE AMENDED.

POST-CONSTRUCTION SOIL QUALITY AND DEPTH

NOT TO SCALE

# FLOWLINE \ CHECk DAM KEY ROCK INTO SWALE X-SECTION AT ROCK CHECK DAM



# **ROCK CHECK DAM DETAILS**

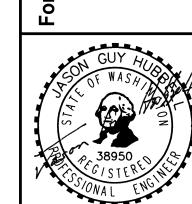
NOT TO SCALE

ALL RIP RAP PADS SHALL BE THE WIDTH OF THE PIPE PLUS 6' WIDE X 8' LONG X 1' DEEP, USING THE GRADATION SPECIFIED BELOW: (UNLESS OTHERWISE SPECIFIED). EXTEND ROCK TO 1' ABOVE CROWN ÒF OUTLET PIPE.

RIP RAP TO BE QUARRY SPALLS WITH ROCK GRADATION AS

PASSING 8-INCH SQUARE SIEVE: 100% PASSING 3-INCH SQUARE SIEVE: 40%-60% PASSING 3/4-INCH SQUARE SIEVE: 0-10%

# RIP RAP PROTECTION SPECIFICATIONS



NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

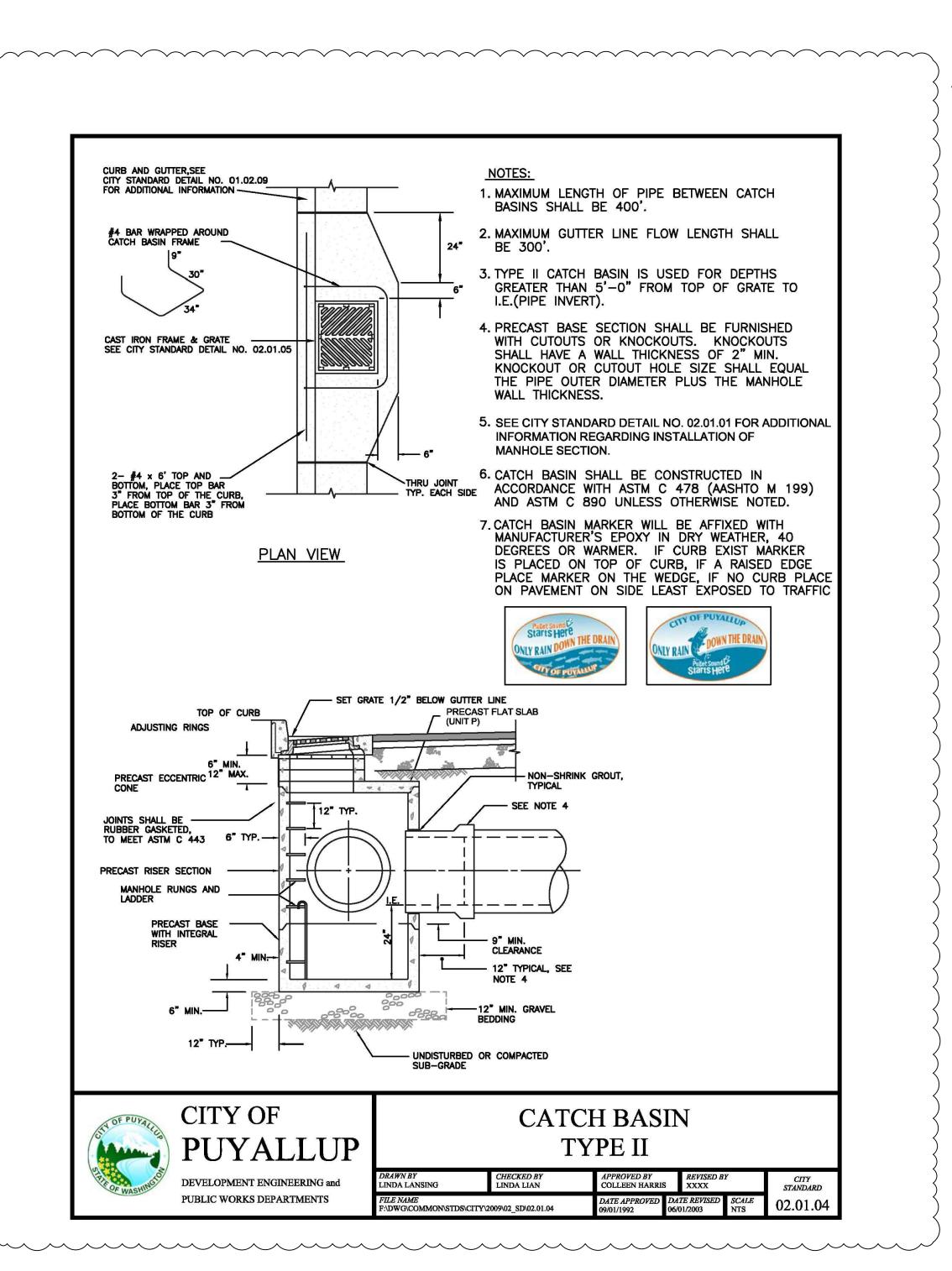
**APPROVED** 

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS

DETERMINED BY THE DEVELOPMENT ENGINEERING

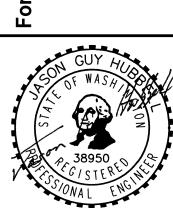


Include city standard 05.02.01. [CFG plans, pg 7]

Detail 05.02.01 added to plan

AND

TION



Barghausen Consulting Enginee

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

**APPROVED** 

CITY OF PUYALLUP DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE

DEVELOPMENT ENGINEERING MANAGER.

2208