



**BARGHAUSEN**



# Preliminary Technical Information Report

Fred Meyer Distribution Center Driveway

## PREPARED BY

Barghausen Consulting  
Engineers, Inc.  
18215 72<sup>nd</sup> Ave. South  
Kent, WA 98032  
Karen Harris, P.E.

## PREPARED FOR

Kroger Logistics Maintenance & Engineering

## CLIENT ADDRESS

2201 South Wilmington Avenue  
Compton, CA 90220  
Attn: Doug Hardy

## SITE ADDRESS

2200 North Meridian  
Puyallup, WA 98371

## PROJECT NO.

18510

## DATE

05/24/2024

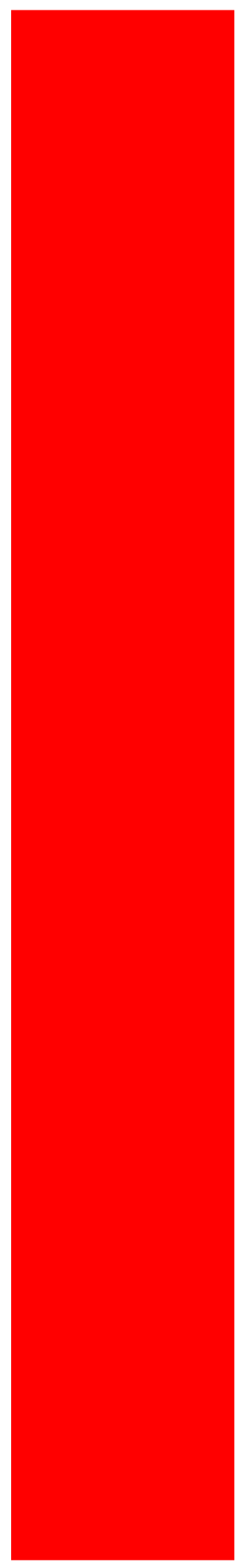
## JURISDICTION

City of Puyallup

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# Tab 1.0



## 1.0 PROJECT OVERVIEW

The proposed project is located on the existing site of the Fed Meyer Distribution Center at 2200 North Meridian, Puyallup, WA 98371. The project is located on parcel 0420215004, which contains 56.53 acres. The project proposed revisions to an existing driveway on the west side of the site that provides access to the site from 7<sup>th</sup> Street NW. The proposed revisions include the replacement of approximately 14,500 square feet of pavement and the construction of a new guard house (approximately 380 square feet). The total project results in 1505 sf of additional pavement. The current zoning of the project site is Limited Manufacturing (ML). Please see the enclosed Figure 1 - Vicinity Map for additional location information.

The project area is located within a small portion of the existing Fred Meyer Distribution Center site. The existing site contains two large warehouse buildings, paved parking and trailer storage spaces, and associated utilities. There are four driveways currently serving the site, one on Todd Road NW, one on North Meridian Avenue, one on Valley Avenue East, and one on 7<sup>th</sup> Street NW. The site is relatively flat and does not contain any steep slopes. The site is fully developed and contains an existing stormwater system that drains to existing onsite bioswales, which discharge into the public stormwater system Valley Avenue NW, ultimately discharging to the Puyallup River. See Figure 2 for a map of existing site conditions. No changes to the existing stormwater system are proposed. It will continue to serve the project area as it does in the existing condition.

The site contains two flood zones within two of the onsite bioswales. These flood zones are outside of the project area. See Figure 4 for a FEMA flood map. According to Puyallup GIS mapping, the project does not contain any wetlands. Some potential landslide hazards are shown by GIS within the site where slopes are not flat. However, visual inspection of the areas in question shows that they are minor slopes and do not meet the definition of landslide hazards per 21.06.1210(3)(b) of the Puyallup Municipal Code.

# Figure 1 Vicinity Map





Proposed driveway revision

TPN 0420215004  
Fred Meyer Distribution Center  
Approximate Boundary Line



Figure 2  
Existing  
Conditions  
Map

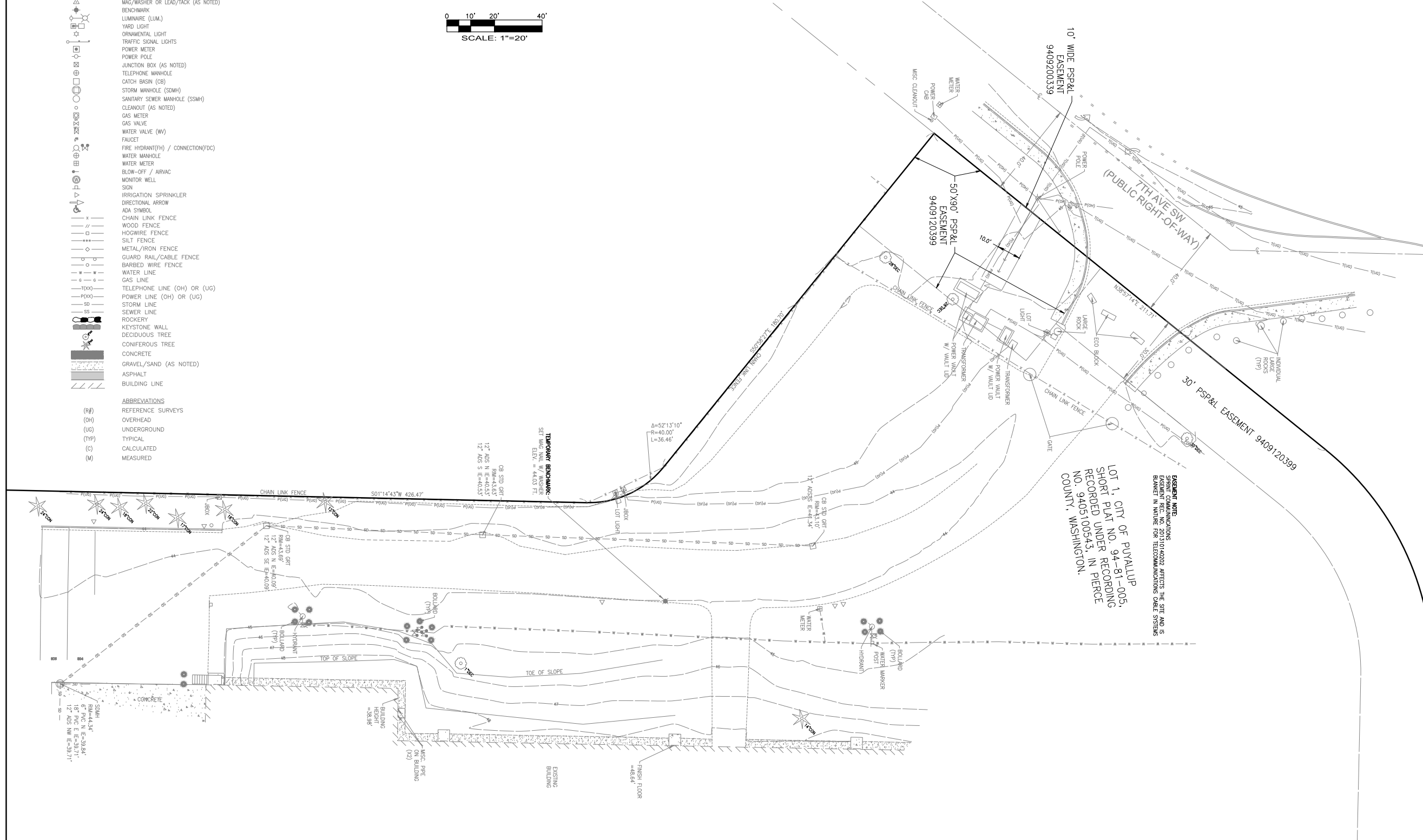
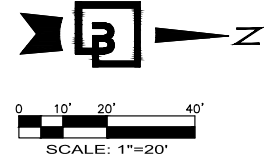


# EXISTING CONDITIONS PLAN

## LEGEND

(NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)

- SURVEY MONUMENT (AS NOTED)
  - SECTION CORNER (AS NOTED)
  - SET REBAR/CAP (AS NOTED)
  - FOUND REBAR/CAP (AS NOTED)
  - SET 2"x2" HUB/TACK LINE STAKE
  - MAG/WASHER OR LEAD/TACK (AS NOTED)
  - BENCHMARK
  - LUMINAIRE (LUM.)
  - YARD LIGHT
  - ORNAMENTAL LIGHT
  - TRAFFIC SIGNAL LIGHTS
  - POWER METER
  - POWER POLE
  - JUNCTION BOX (AS NOTED)
  - TELEPHONE MANHOLE
  - CATCH BASIN (CB)
  - STORM MANHOLE (SDMH)
  - SANITARY SEWER MANHOLE (SSMH)
  - CLEANOUT (AS NOTED)
  - GAS METER
  - GAS VALVE
  - WATER VALVE (WV)
  - FAUCET
  - FIRE HYDRANT (FH) / CONNECTION (FDC)
  - WATER MANHOLE
  - WATER METER
  - BLOW-OFF / AIRVAC
  - MONITOR WELL
  - SIGN
  - IRRIGATION SPRINKLER
  - DIRECTIONAL ARROW
  - ADA SYMBOL
  - CHAIN LINK FENCE
  - WOOD FENCE
  - HOGWIRE FENCE
  - SILT FENCE
  - METAL/IRON FENCE
  - GUARD RAIL/CABLE FENCE
  - BARBED WIRE FENCE
  - WATER LINE
  - GAS LINE
  - TELEPHONE LINE (OH) OR (UG)
  - POWER LINE (OH) OR (UG)
  - STORM LINE
  - SEWER LINE
  - ROCKERY
  - KEYSTONE WALL
  - DECIDUOUS TREE
  - CONIFEROUS TREE
  - CONCRETE
  - GRAVEL/SAND (AS NOTED)
  - ASPHALT
  - BUILDING LINE
- ABBREVIATIONS
- (RF) REFERENCE SURVEYS
  - (OH) OVERHEAD
  - (UG) UNDERGROUND
  - (TYP) TYPICAL
  - (C) CALCULATED
  - (M) MEASURED

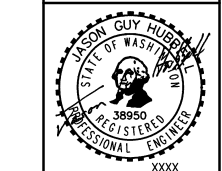


No.	Date	By	Chd.	Appr.

Revision

Title: **EXISTING CONDITIONS PLAN**

For: **FRED MEYER**



Designed	DL	Drawn	RDC	Checked	DL	Approved	JGL	Date	2/16/24
Scale:	Horizontal	1"=20'	Vertical	NA					

**Barghausen Consulting Engineers, Inc.**  
 18215 72nd Avenue South  
 Kent, WA 98032  
 425.251.6222  
 barghausen.com

Job Number	18510	Sheet	C3	of	6
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**APPROVED**

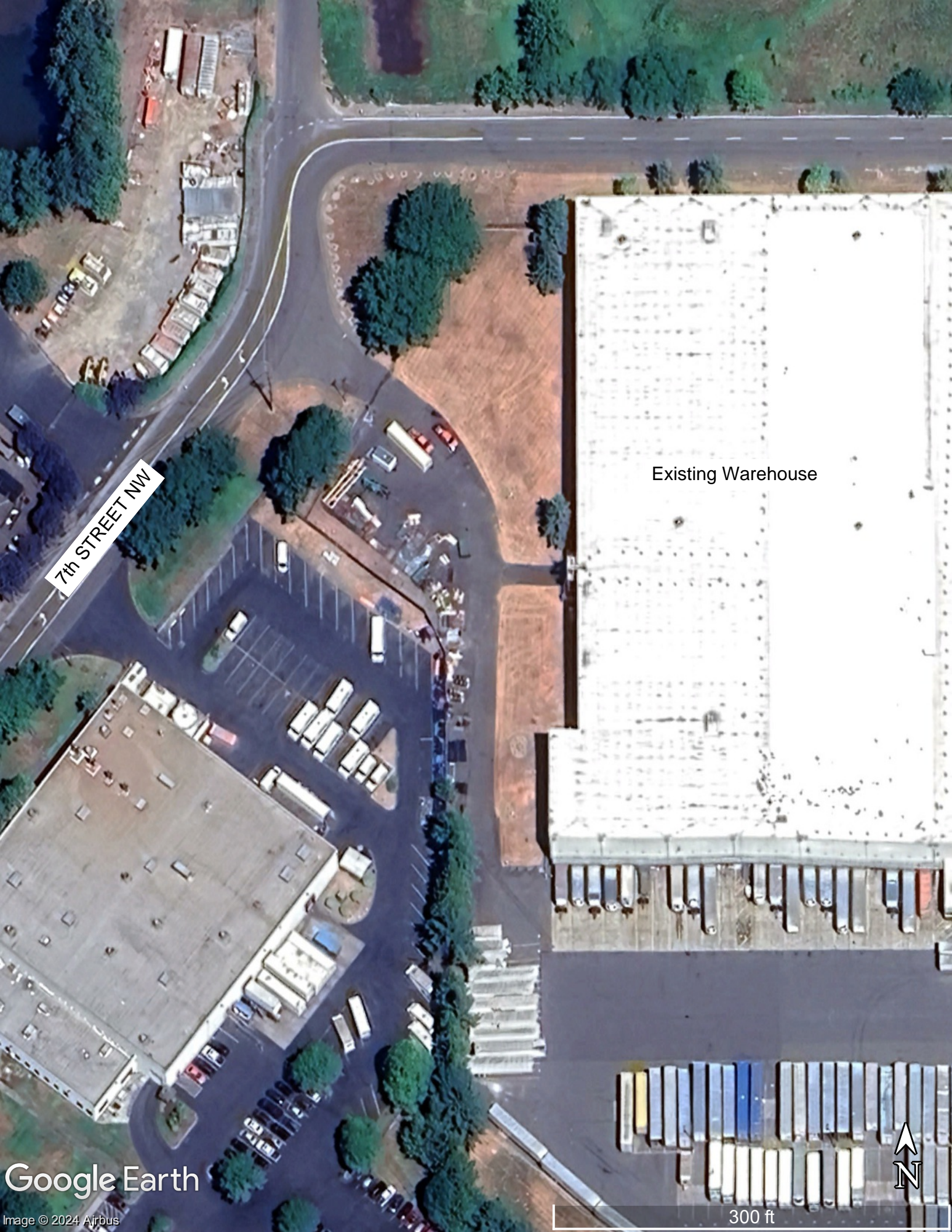
BY: \_\_\_\_\_  
 CITY OF PUYALLUP  
 DEVELOPMENT ENGINEERING

DATE: \_\_\_\_\_

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL. 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.



Know what's below.  
Call before you dig.



7th STREET NW

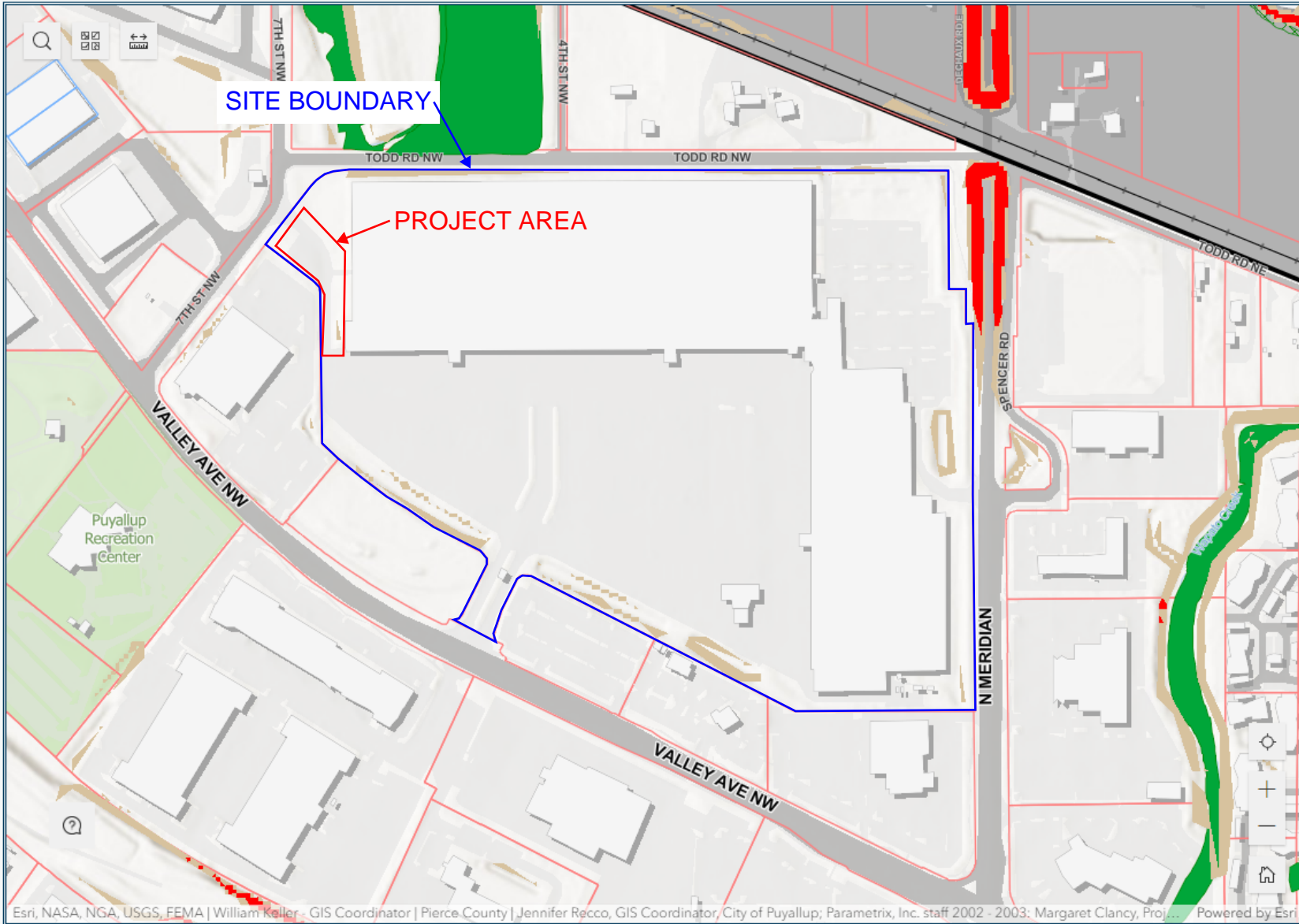
Existing Warehouse



Figure 3  
Critical Areas  
Map



# City of Puyallup Public Data Viewer



### Legend

- Environment**
  - Potential Landslide Hazard**
    - High (Red triangle)
    - Moderate (Brown triangle)
  - Wetlands**
    - Field-verified Delineated (Blue hatched triangle)
    - Field-verified (Green solid triangle)
    - Unverified (Green hatched triangle)
    - Unverified (Green hatched triangle)
    - Unverified (Green hatched triangle)
    - Buffer (Light green triangle)
    - Mitigation Site (Orange triangle)
- Parcels**
  - Tax Parcels**
    - Base Parcel (Red outline)
    - Condominium (Blue outline)
    - Condominium (Blue outline)
    - Other (Light green outline)
    - Other (Light green outline)
    - Other (Light green outline)
    - Other (Light green outline)

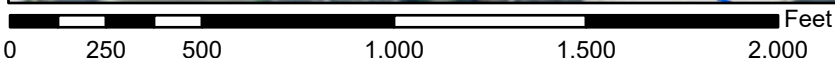
Figure 4  
FEMA Flood  
Map



# National Flood Hazard Layer FIRMMette



122°18'12"W 47°12'50"N



1:6,000

122°17'35"W 47°12'26"N

Basemap Imagery Source: USGS National Map 2023

## Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS		Without Base Flood Elevation (BFE) Zone A, V, A99
		With BFE or Depth Zone AE, AO, AH, VE, AR
		Regulatory Floodway
OTHER AREAS OF FLOOD HAZARD		0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X
		Future Conditions 1% Annual Chance Flood Hazard Zone X
		Area with Reduced Flood Risk due to Levee. See Notes. Zone X
		Area with Flood Risk due to Levee Zone D
OTHER AREAS		NO SCREEN Area of Minimal Flood Hazard Zone X
		Effective LOMRs
GENERAL STRUCTURES		Area of Undetermined Flood Hazard Zone D
		Channel, Culvert, or Storm Sewer
OTHER FEATURES		Levee, Dike, or Floodwall
		20.2 Cross Sections with 1% Annual Chance Water Surface Elevation
MAP PANELS		17.5 Coastal Transect
		Base Flood Elevation Line (BFE)
		Limit of Study
		Jurisdiction Boundary
		Coastal Transect Baseline
		Profile Baseline
		Hydrographic Feature
		Digital Data Available
		No Digital Data Available
		Unmapped



The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 2/23/2024 at 7:22 PM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

# Tab 2.0



## 2.0 MINIMUM REQUIREMENTS SUMMARY

Per Figure 1-3.1 and 1-3.2 of the 2019 Department of Ecology Stormwater Management Manual for Western Washington (the Manual), minimum requirements #1 through #5 apply to this project. Minimum requirements (MRs) as listed in the Manual are listed in this section.

### *MR1 - Preparation of Stormwater Site Plans.*

This report and the prepared construction drawings satisfy this requirement.

### *MR2 - Construction Stormwater Pollution Prevention Plan (SWPPP)*

A SWPPP will be prepared and submitted to the City with the permit submittal plans.

### *MR3 - Source Control of Pollution*

Source Control BMPs will continue to be implemented on the site as they are in the existing conditions. The project does not propose any change to the use of the site.

### *MR4 - Preservation of Natural Drainage Systems and Outfalls*

The existing site stormwater system will remain intact and unmodified. It will continue to discharge to the existing City stormwater conveyance system in Valley Avenue NW, ultimately discharging to the Puyallup River.

### *MR5 - On-Site Stormwater Management*

The project discharges to a flow control exempt waterbody (Puyallup River), therefore List #3 is applied to this minimum requirement.

BMP T5.13: Post-Construction Soil Quality and Depth – This BMP will be applied to all disturbed lawn and landscape areas.

BMP T5.10A: Downspout Full Infiltration – Onsite soils are not suitable for infiltration.

BMP T5.10B: Downspout Dispersion Systems – The proposed guard shack is adjacent to pavement. Providing adequate space for dispersion is not feasible.

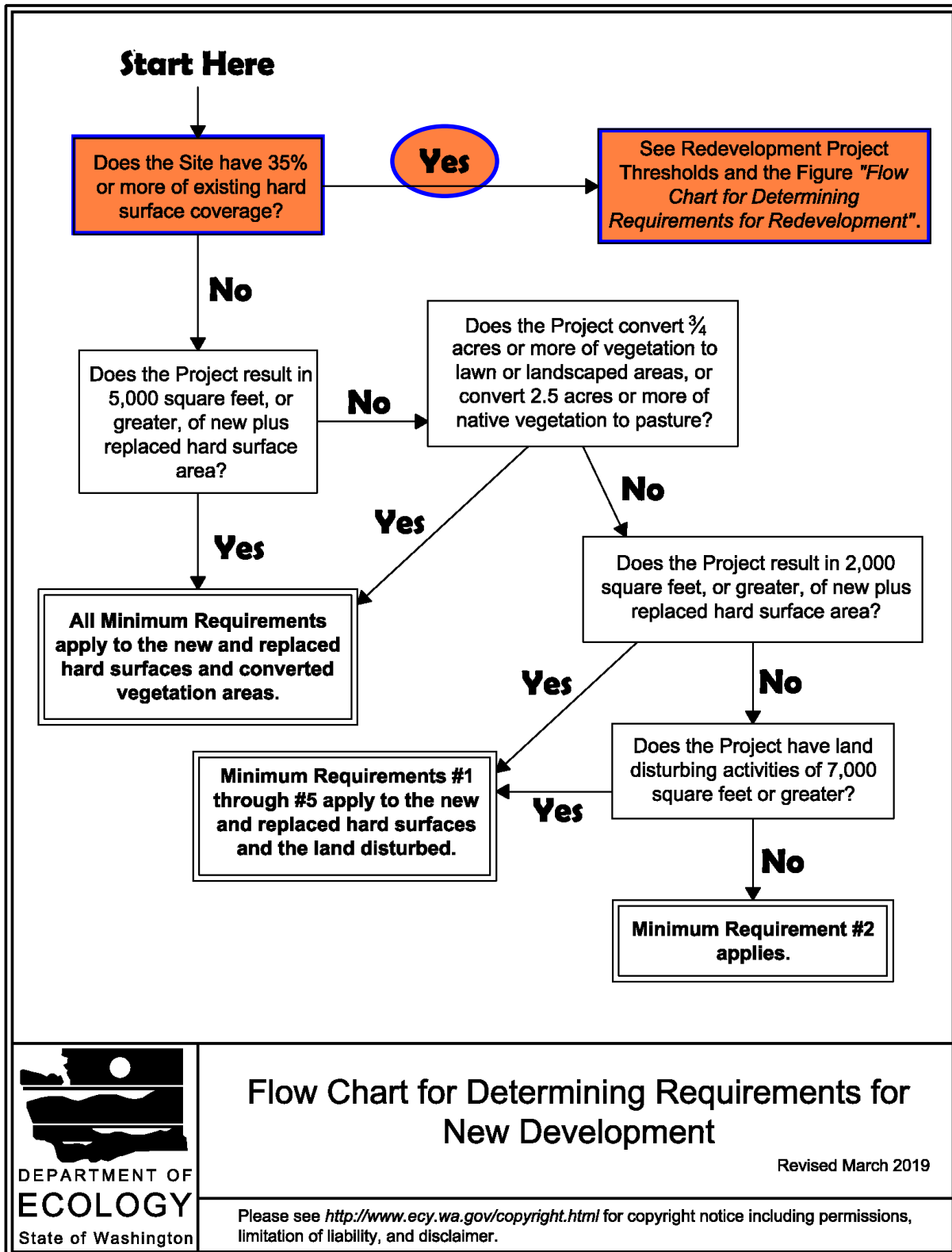
BMPT 5.10C: Perforated Stub-Out Connections – Onsite soils are not suitable for infiltration.

BMP T5.12: Sheet Flow Dispersion and BMP T5.11: Concentrated Flow Dispersion – The paved area contains existing catch basins that receive all runoff. It is not feasible to provide any space for dispersion before runoff directly enters the conveyance system.

Figure 5  
Minimum  
Requirements  
Flowchart



**Figure I-3.1: Flow Chart for Determining Requirements for New Development**

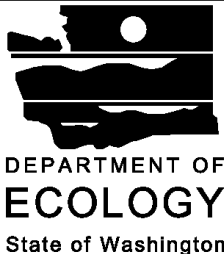
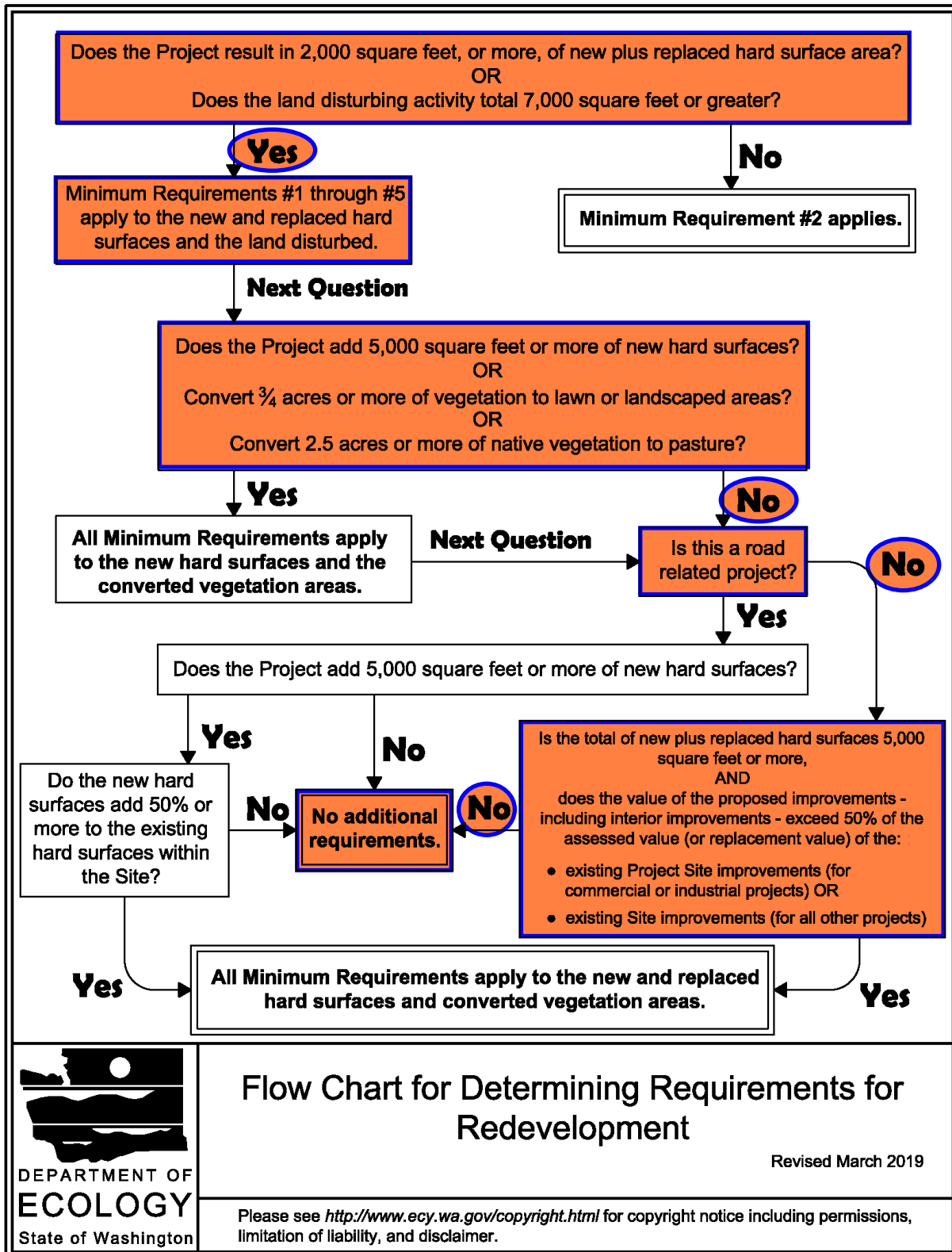


## Flow Chart for Determining Requirements for New Development

Revised March 2019

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**Figure I-3.2: Flow Chart for Determining Requirements for Redevelopment**



**Flow Chart for Determining Requirements for Redevelopment**

Revised March 2019

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# Tab 3.0



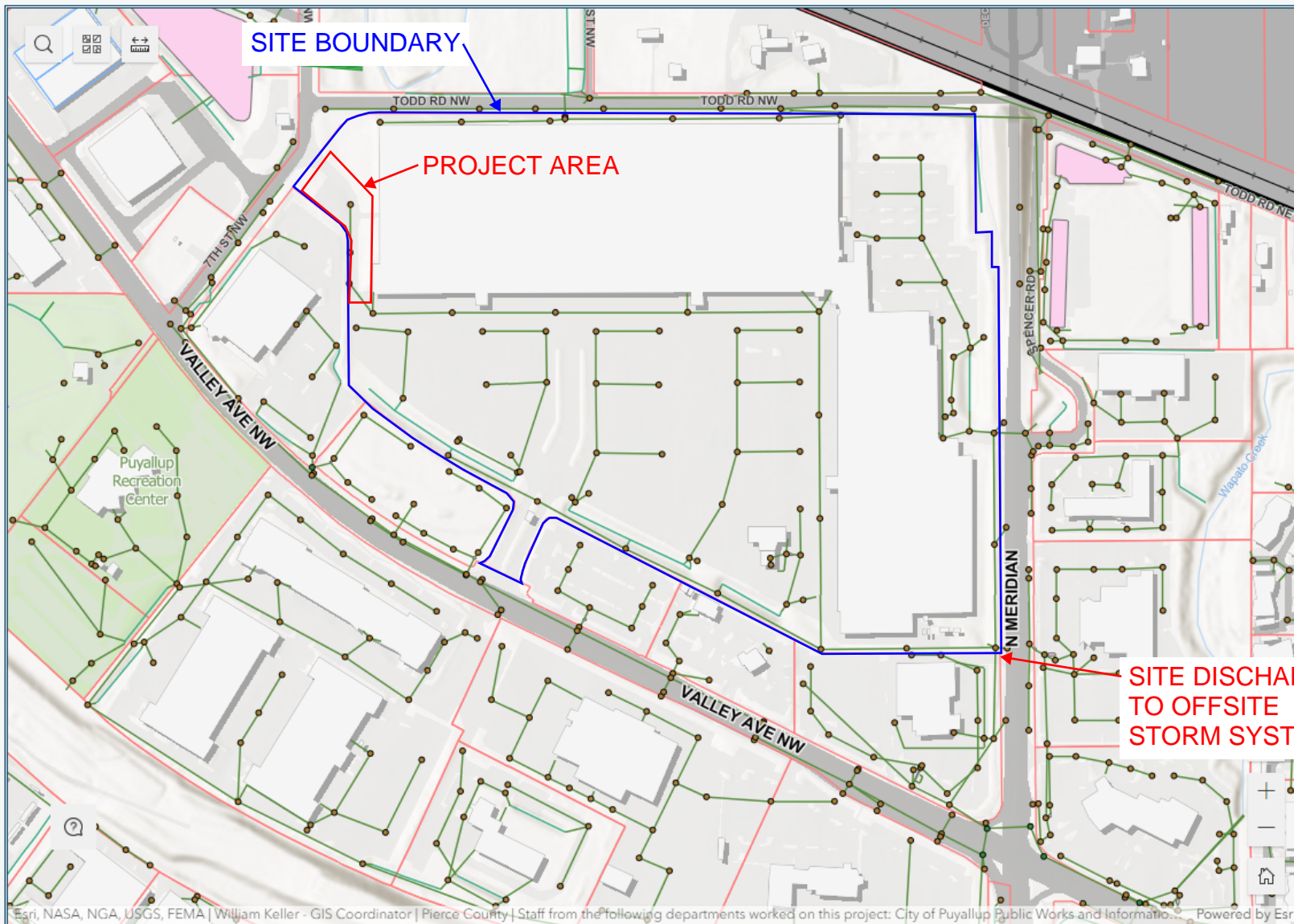
### **3.0 OFF-SITE ANALYSIS**

The project site drains to existing onsite stormwater catch basins and piping, which discharge into the public stormwater system in Valley Avenue NW, ultimately discharging to the Puyallup River. See Figure 6 for a map of the downstream system as shown by City of Puyallup GIS. We are not aware of any known drainage issues with the existing downstream drainage system.

Figure 6  
Downstream  
Drainage  
Map



# City of Puyallup Public Data Viewer

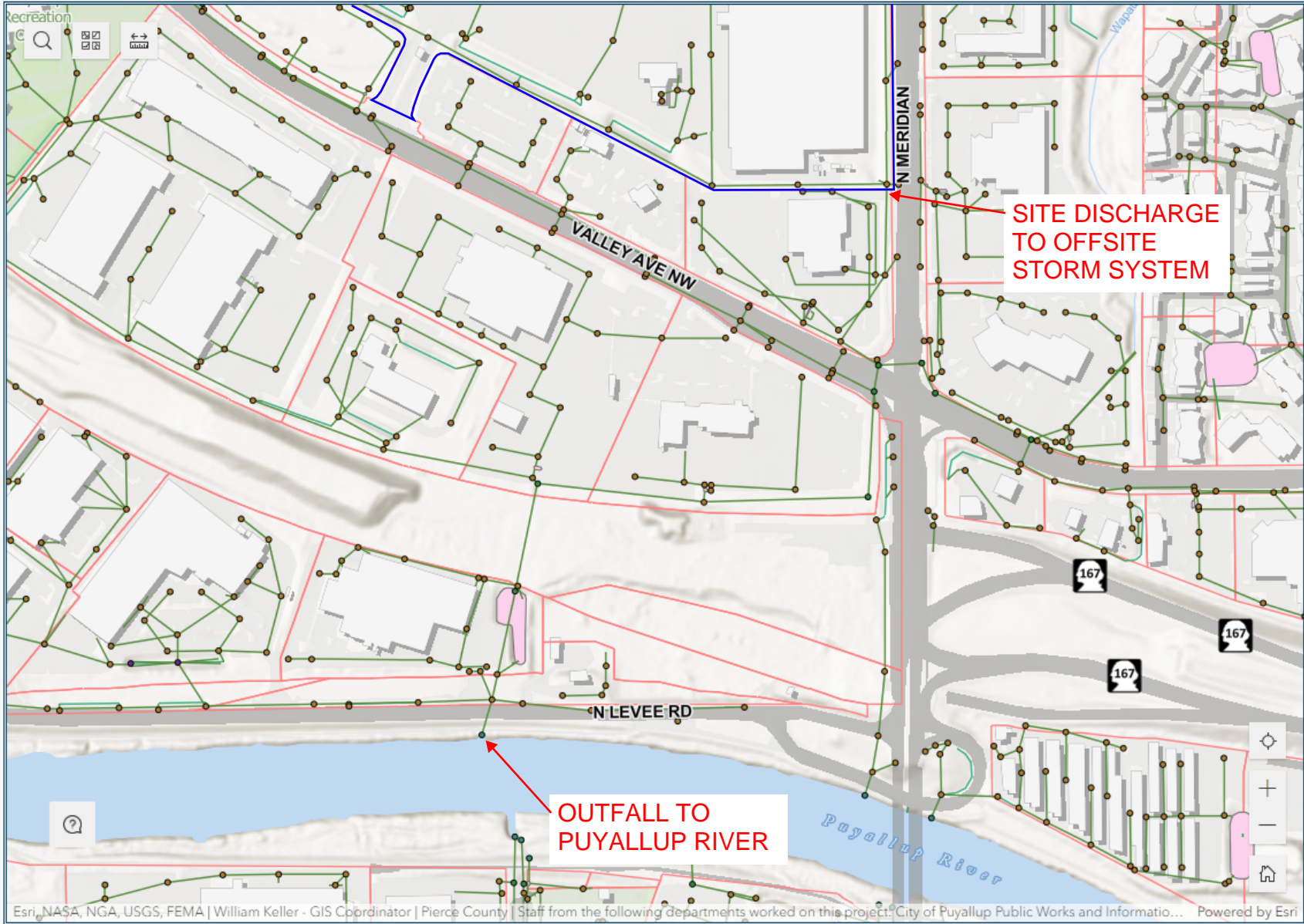


### Legend

**Utilities**

- Storm Water**
- Outfalls**
  -
- Manholes**
  -
- Inlets**
  -
- Control Structures**
  -
- Culverts**
  -
- Pipes**
  -
- Channels**
  -
- Facilities**
  -

# City of Puyallup Public Data Viewer



### Legend

**Utilities**

- Storm Water
- Outfalls
- Manholes
- Inlets
- Control Structures
- Culverts
- Pipes
- Channels
- Facilities

# Tab 4.0



#### **4.0 FLOW CONTROL AND WATER QUALITY FACILITY ANALYSIS AND DESIGN**

The project does not trigger Minimum Requirements 6 and 7. No new stormwater facilities are proposed. The project area will continue to be served by the existing onsite stormwater system. See Figure 7 for the proposed improvement plans.

Figure 7  
Proposed  
Development  
Plans



PORTION OF THE NE1/4 OF SEC. 21, TWP. 20 N., RGE 4 E., W. M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON

# SITE IMPROVEMENT PLANS CIVIL COVER SHEET

### CONSTRUCTION SEQUENCE:

- HOLD A PRECONSTRUCTION MEETING WITH THE CITY AND OBTAIN REQUIRED PERMITS.
- INSTALL CATCH BASIN INLET PROTECTION AND OTHER EROSION CONTROL DEVICES AS SHOWN.
- SCHEDULE AN EROSION CONTROL INSPECTION WITH THE CITY.
- NO UNCONTROLLED SURFACE WATER SHALL BE ALLOWED TO LEAVE THE SITE OR BE DISCHARGED TO A CRITICAL AREA AT ANY TIME DURING THE GRADING OPERATIONS.
- GRADE SITE AND INSTALL UTILITIES PER PLANS.
- INSTALL PAVING
- INSPECT AND MAINTAIN ALL BMP'S UNTIL SITE IS STABILIZED

### SURVEY DATA:

**HORIZONTAL DATUM:**  
WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83/91

**BASIS OF BEARINGS:**  
NORTH 51°55'28" WEST, AS MEASURED BETWEEN WSDOT MONUMENTS ID 3194 (GP27167-76) AND 3193 (GP27167-75).

**VERTICAL DATUM:**  
NAVD88

**VERTICAL BENCHMARK:**  
WSDOT MONUMENT ID 3194 (GP27167-76), BEING THE TOP OF A FOUND 3" BRASSIE IN CONCRETE, APPROXIMATELY 14" WEST OF THE WEST EDGE OF FREEDMAN ROAD AT SW QUADRANT OF INTERSECTION WITH RAILROAD ELEV.=30.17 US FEET

**ADDRESS:**  
2200 N MERIDIAN, PUYALLUP, WA 98371

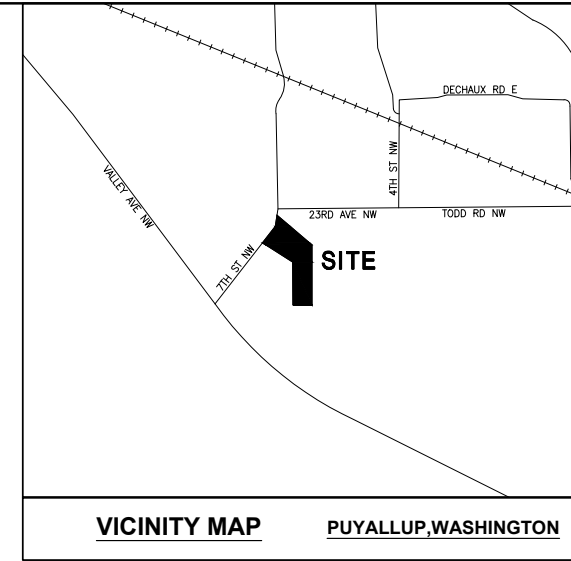
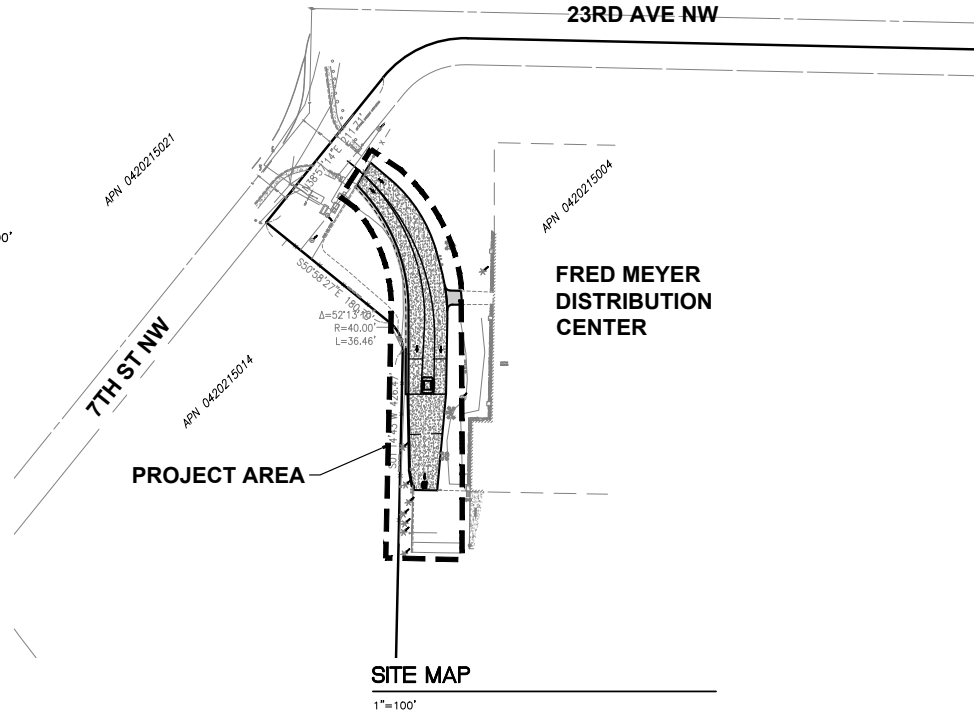
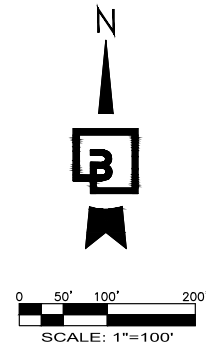
**TAX PARCEL NUMBER:**  
0420215004

**REFERENCE SURVEYS:**  
R.O.S., REC. NO. 200709255006  
R.O.S., REC. NO. 9906075005  
CITY OF PUYALLUP SP 94-81-005, REC. NO. 9405100543

**DATE OF SURVEY:**  
THIS SURVEY REPRESENTS VISIBLE PHYSICAL IMPROVEMENT CONDITIONS EXISTING ON JANUARY 8, 2023. ALL SURVEY CONTROL INDICATED AS "FOUND" WAS RECOVERED FOR THIS PROJECT IN JANUARY OF 2023.

### HORIZONTAL CONTROL / SURVEY NOTE:

- 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.
- UNDERGROUND UTILITIES AND FEATURES DEPICTED HEREON ARE BASED ON FIELD OBSERVATION, MARKINGS, DEVELOPMENT PLANS, AND/OR BEST AVAILABLE 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.



VICINITY MAP PUYALLUP, WASHINGTON

### SITE ADDRESS

2200 N MERIDIAN  
PUYALLUP, WA 98371

### INDEX OF SHEETS:

- C1 CIVIL COVER SHEET
- C2 GENERAL NOTES
- C3 DEMOLITION/TESC PLAN
- C4 SITE PLAN
- C5 GRADING AND STORM DRAINAGE PLAN
- C6 CONSTRUCTION DETAILS

### TAX PARCEL NUMBER

0420215004

### ZONING

ML - LIMITED MANUFACTURING

### OWNER/APPLICANT

FRED MEYER

### CIVIL ENGINEERING CONSULTANT:

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

### SITE SURVEY CONSULTANT:

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

### PROJECT INFO:

TOTAL SITE AREA= 346,555 SF  
TOTAL IMPERVIOUS AREA= 289,069 SF (83.4%)  
TOTAL PERVIOUS AREA= 57,486 SF (16.6%)

### UTILITIES/SERVICES

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

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

### ESTIMATED EARTHWORK VOLUMES:

(FOR PERMITTING ONLY. NOT FOR BID PURPOSES)

CUT/EXPORT = 800 CY  
FILL/IMPORT = 800 CY  
TOTAL EARTHWORK = 1600 CY

### IMPERVIOUS SURFACE CALCULATIONS:

DISTURBED AREA= 16,000 SF  
EXISTING AND NEW IMPERVIOUS AREA= 16,000 SF  
PERVIOUS AREA REMOVED= 2,360 SF

### UTILITY CONFLICT NOTE:

#### 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 POT-HOLING THE UTILITIES AND SURVEYING THE HORIZONTAL AND VERTICAL LOCATION PRIOR TO CONSTRUCTION. THIS SHALL INCLUDE CALLING UTILITY LOCATE @ 811 AND THEN POT-HOLING. 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 RESPONSIBILITY OF THE CONTRACTOR.



Know what's below.  
Call before you dig.

### APPROVED

BY: CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

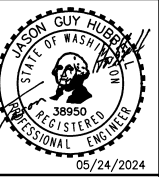
DATE: \_\_\_\_\_

**NOTE:** THIS APPROVAL IS VOID 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.

Title: SITE IMPROVEMENT PLANS  
CIVIL COVER SHEET

No. Date By Cld. Appr.

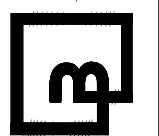
FOR: DOUG HARDY  
WEST REGION ENGINEER  
KROGER LOGISTICS  
MAINTENANCE & ENGINEERING  
2201 SOUTH WILMINGTON AVE.  
COMPTON, CA 90220



Scale: Horizontal 1"=100' Vertical N/A

Designed: DL Drawn: RDC Checked: DL Approved: JGL Date: 2/16/24

Barghausen Consulting Engineers, Inc.  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
barghausen.com



Job Number: 18510  
Sheet: C1 of 6

# NOTES AND LEGEND

### 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 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.  
A. THE USE OF ANY OTHER TYPE SHALL BE REVIEWED AND APPROVED BY THE ENGINEERING SERVICES STAFF PRIOR TO INSTALLATION.  
B. PVC PIPE SHALL BE PER ASTM D3034, SDR 35 FOR PIPE SIZE 15-INCH AND SMALLER AND F679 FOR PIPE SIZES 18 TO 27 INCH. MINIMUM COVER ON PVC PIPE SHALL BE 3.0 FEET.  
C. CONCRETE PIPE SHALL CONFORM TO THE WSDOT STANDARD SPECIFICATIONS FOR CONCRETE UNDERDRAIN PIPE. MINIMUM COVER ON CONCRETE PIPE SHALL NOT BE LESS THAN 3.0 FEET.  
D. DUCTILE IRON PIPE SHALL BE CLASS 50, CONFORMING TO AWWA C151. MINIMUM COVER ON DUCTILE IRON PIPE SHALL BE 1.0 FOOT.  
E. 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, OR 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.

### GRADING, EROSION AND SEDIMENTATION CONTROL 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.
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- 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 CITY ENGINEER 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 HOURS IN ADVANCE. THE OWNER AND HIS/HER ENGINEER SHALL BE CONTACTED IMMEDIATELY IF A CONFLICT EXISTS.
- ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.
- ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTORY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITTEE.
- THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITTEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.
- APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.
- ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, 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 OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITTEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.
- IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.
- NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

### GENERAL SITE NOTES:

- THE CONTRACTOR SHALL OBTAIN AND HAVE AVAILABLE COPIES OF THE APPLICABLE GOVERNING AGENCY STANDARDS AT THE JOB SITE DURING THE RELATED CONSTRUCTION OPERATIONS.
- CONTRACTOR SHALL ENSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED PRIOR TO COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING THE LOCATION, DIMENSION AND DEPTH OF ALL EXISTING UTILITIES PRIOR TO CONSTRUCTION WHETHER SHOWN ON THESE PLANS OR NOT. UTILITIES OTHER THAN THOSE SHOWN MAY EXIST ON THIS SITE. ONLY THOSE UTILITIES WITH EVIDENCE OF THEIR INSTALLATION VISIBLE AT GROUND SURFACE OR SHOWN ON RECORD DRAWING PROVIDED BY OTHERS ARE SHOWN HEREON. EXISTING UNDERGROUND UTILITY LOCATIONS SHOWN ARE APPROXIMATE ONLY AND ARE SUBJECT TO A DEGREE OF UNKNOWN VARIATION. SOME UNDERGROUND LOCATIONS SHOWN HEREON MAY HAVE BEEN TAKEN FROM PUBLIC RECORDS. BARGHAUSEN CONSULTING ENGINEERS, INC. ASSUMES NO LIABILITY FOR THE ACCURACY OF PUBLIC RECORDS OR RECORDS OF OTHERS. IF CONFLICTS SHOULD OCCUR, THE CONTRACTOR SHALL CONSULT BARGHAUSEN CONSULTING ENGINEERS, INC. TO RESOLVE ALL PROBLEMS PRIOR TO PROCEEDING WITH CONSTRUCTION.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REVIEW ALL OF THE DRAWINGS AND SPECIFICATIONS ASSOCIATED WITH THE PROJECT WORK SCOPE PRIOR TO THE INITIATION OF CONSTRUCTION. SHOULD THE CONTRACTOR FIND A CONFLICT WITH THE DOCUMENTS RELATIVE TO THE SPECIFICATIONS OR THE RELATIVE CODES, IT IS THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE PROJECT ENGINEER OF RECORD IN WRITING PRIOR TO THE START OF CONSTRUCTION. FAILURE BY THE CONTRACTOR TO NOTIFY THE PROJECT ENGINEER SHALL CONSTITUTE ACCEPTANCE OF FULL RESPONSIBILITY BY THE CONTRACTOR TO COMPLETE THE SCOPE OF WORK AS DEFINED BY THE DRAWINGS AND IN FULL COMPLIANCE WITH LOCAL REGULATIONS AND CODES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE APPROPRIATE UTILITIES INVOLVED PRIOR TO CONSTRUCTION.
- INSPECTION OF SITE WORK WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE GOVERNING JURISDICTION. INSPECTION OF PRIVATE FACILITIES WILL BE ACCOMPLISHED BY A REPRESENTATIVE OF THE OWNER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE INSPECTOR 24 HOURS IN ADVANCE OF BACKFILLING ALL CONSTRUCTION.
- PRIOR TO ANY CONSTRUCTION OR DEVELOPMENT ACTIVITY THE CONTRACTOR SHALL CONTACT THE AGENCY AND/OR UTILITY INSPECTION PERSONNEL AND ARRANGE ANY REQUIRED PRE-CONSTRUCTION MEETING(S). CONTRACTOR SHALL PROVIDE ONE WEEK MINIMUM ADVANCE NOTIFICATION TO OWNER, FIELD ENGINEER AND ENGINEER OF PRE-CONSTRUCTION MEETINGS.
- THE CONTRACTOR IS RESPONSIBLE FOR WORKER AND SITE SAFETY AND SHALL COMPLY WITH THE LATEST OSHA STANDARDS AND REGULATIONS, OR ANY OTHER AGENCY HAVING JURISDICTION FOR EXCAVATION AND TRENCHING PROCEDURES. THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE "MEANS AND METHODS" REQUIRED TO MEET THE INTENT AND PERFORMANCE CRITERIA OF OSHA, AS WELL AS ANY OTHER ENTITY THAT HAS JURISDICTION FOR EXCAVATION AND/OR TRENCHING PROCEDURES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH, AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED.
- PROTECTIVE MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO PROTECT ALL ADJACENT PUBLIC AND PRIVATE PROPERTIES AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF ALL EXISTING UTILITY SERVICES THAT ARE TO REMAIN OPERATIONAL WITHIN THE CONSTRUCTION AREA WHETHER SHOWN OR NOT SHOWN ON THE PLANS.
- TWO (2) COPIES OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS. ONE (1) SET WITH RECORDS OF AS-BUILT INFORMATION SHALL BE SUBMITTED TO BARGHAUSEN CONSULTING ENGINEERS, INC. AT COMPLETION OF PROJECT.
- CONTRACTOR SHALL OBTAIN SERVICES OF A LICENSED LAND SURVEYOR TO STAKE HORIZONTAL CONTROL FOR ALL NEW IMPROVEMENTS. STAKING CONTROL SHALL BE TAKEN FROM ELECTRONIC PLAN FILES PROVIDED BY BARGHAUSEN CONSULTING ENGINEERS, INC.
- CONTRACTOR SHALL REQUEST FROM BARGHAUSEN CONSULTING ENGINEERS, INC., PRIOR TO ANY CONSTRUCTION STAKING OR CONSTRUCTION WORK, A FORMAL CONSTRUCTION RELEASE PLAN SET OR SPECIFIC RELEASE IN WRITING. THE APPROVED AGENCY PERMIT DRAWINGS WILL NOT BE CONSIDERED CONSTRUCTION RELEASE PLANS BY BARGHAUSEN CONSULTING ENGINEERS, INC. UNLESS BARGHAUSEN CONSULTING ENGINEERS, INC. HAS GIVEN A FORMAL WRITTEN RELEASE OR ISSUED A CONSTRUCTION RELEASE PLAN SET.

Revision

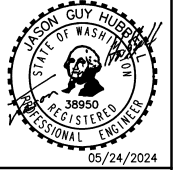
No. Date By Ckd. Appr.

NOTES AND LEGEND

Title:

**DOUG HARDY**  
WEST REGION ENGINEER  
**KROGER LOGISTICS**  
MAINTENANCE & ENGINEERING  
2201 SOUTH WILMINGTON AVE.  
COMPTON, CA 90220

For:



Scale:  
Horizontal NA  
Vertical N/A

Designed DL  
Drawn BDC  
Checked DL  
Approved JBL  
Date 2/16/24

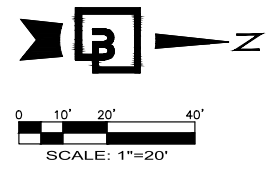
**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
barghausen.com



Job Number  
**18510**  
Sheet  
**C2** of **6**

**APPROVED**  
By \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE \_\_\_\_\_  
**NOTE:** THIS APPROVAL IS VOID 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.

PORTION OF THE NE1/4 OF SEC. 21, TWP. 20 N., RGE 4 E., W. M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON  
**DEMOLITION / TESC PLAN**



**EXISTING LEGEND:**

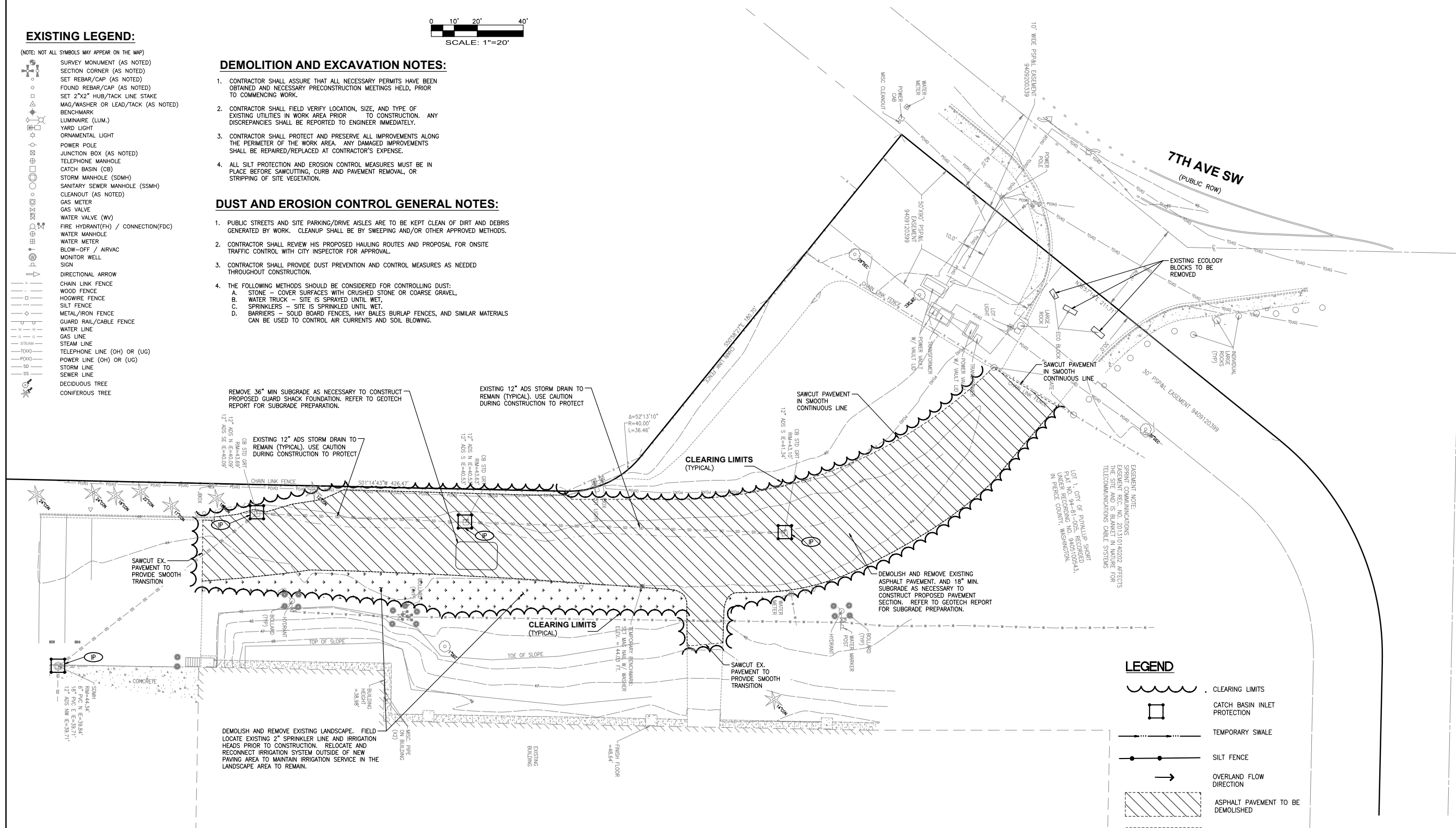
- (NOTE: NOT ALL SYMBOLS MAY APPEAR ON THE MAP)
- SURVEY MONUMENT (AS NOTED)
  - SECTION CORNER (AS NOTED)
  - SET REBAR/CAP (AS NOTED)
  - FOUND REBAR/CAP (AS NOTED)
  - SET 2"x2" HUB/TACK LINE STAKE
  - MAG/WASHER OR LEAD/TACK (AS NOTED)
  - BENCHMARK
  - LUMINAIRE (LUM.)
  - YARD LIGHT
  - ORNAMENTAL LIGHT
  - POWER POLE
  - JUNCTION BOX (AS NOTED)
  - TELEPHONE MANHOLE
  - CATCH BASIN (CB)
  - STORM MANHOLE (SDMH)
  - SANITARY SEWER MANHOLE (SSMH)
  - CLEANOUT (AS NOTED)
  - GAS METER
  - GAS VALVE
  - WATER VALVE (WV)
  - FIRE HYDRANT(FH) / CONNECTION(FDC)
  - WATER MANHOLE
  - WATER METER
  - BLOW-OFF / AIRVAC
  - MONITOR WELL
  - SIGN
  - DIRECTIONAL ARROW
  - CHAIN LINK FENCE
  - WOOD FENCE
  - HOGWIRE FENCE
  - SILT FENCE
  - METAL/IRON FENCE
  - GUARD RAIL/CABLE FENCE
  - WATER LINE
  - GAS LINE
  - STEAM LINE
  - TELEPHONE LINE (OH) OR (UG)
  - POWER LINE (OH) OR (UG)
  - STORM LINE
  - SEWER LINE
  - DECIDUOUS TREE
  - CONIFEROUS TREE

**DEMOLITION AND EXCAVATION NOTES:**

1. CONTRACTOR SHALL ASSURE THAT ALL NECESSARY PERMITS HAVE BEEN OBTAINED AND NECESSARY PRECONSTRUCTION MEETINGS HELD, PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL FIELD VERIFY LOCATION, SIZE, AND TYPE OF EXISTING UTILITIES IN WORK AREA PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO ENGINEER IMMEDIATELY.
3. CONTRACTOR SHALL PROTECT AND PRESERVE ALL IMPROVEMENTS ALONG THE PERIMETER OF THE WORK AREA. ANY DAMAGED IMPROVEMENTS SHALL BE REPAIRED/REPLACED AT CONTRACTOR'S EXPENSE.
4. ALL SILT PROTECTION AND EROSION CONTROL MEASURES MUST BE IN PLACE BEFORE SAWCUTTING, CURB AND PAVEMENT REMOVAL, OR STRIPPING OF SITE VEGETATION.

**DUST AND EROSION CONTROL GENERAL NOTES:**

1. PUBLIC STREETS AND SITE PARKING/DRIVE AISLES ARE TO BE KEPT CLEAN OF DIRT AND DEBRIS GENERATED BY WORK. CLEANUP SHALL BE BY SWEEPING AND/OR OTHER APPROVED METHODS.
2. CONTRACTOR SHALL REVIEW HIS PROPOSED HAULING ROUTES AND PROPOSAL FOR ONSITE TRAFFIC CONTROL WITH CITY INSPECTOR FOR APPROVAL.
3. CONTRACTOR SHALL PROVIDE DUST PREVENTION AND CONTROL MEASURES AS NEEDED THROUGHOUT CONSTRUCTION.
4. THE FOLLOWING METHODS SHOULD BE CONSIDERED FOR CONTROLLING DUST:
  - A. STONE - COVER SURFACES WITH CRUSHED STONE OR COARSE GRAVEL.
  - B. WATER TRUCK - SITE IS SPRAYED UNTIL WET.
  - C. SPRINKLERS - SITE IS SPRINKLED UNTIL WET.
  - D. BARRIERS - SOLID BOARD FENCES, HAY BALES BURLAP FENCES, AND SIMILAR MATERIALS CAN BE USED TO CONTROL AIR CURRENTS AND SOIL BLOWING.



**LEGEND**

- CLEARING LIMITS
- CATCH BASIN INLET PROTECTION
- TEMPORARY SWALE
- SILT FENCE
- OVERLAND FLOW DIRECTION
- ASPHALT PAVEMENT TO BE DEMOLISHED
- LANDSCAPE TO BE DEMOLISHED

**TESC SCHEDULE**

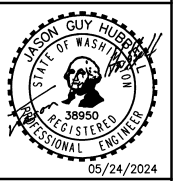
INSTALL CATCH BASIN INLET PROTECTION. SEE CITY STD. DETAIL 02.03.05 ON SHEET C6



Revision  
No. Date By Cld. Appr.

Title: **DEMOLITION / TESC PLAN**

For: **DOUG HARDY  
WEST REGION ENGINEER  
KROGER LOGISTICS  
MAINTENANCE & ENGINEERING  
2201 SOUTH WILMINGTON AVE.  
COMPTON, CA 90220**



Scale:  
Horizontal 1"=20'  
Vertical NA  
Designed DL  
Drawn RDC  
Checked DL  
Approved JGL  
Date 2/16/24

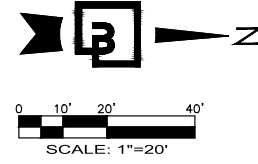
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Job Number: **18510**  
Sheet: **C3** of **6**

**APPROVED**  
By: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
DATE: \_\_\_\_\_  
NOTE: THIS APPROVAL IS VOID 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.

# SITE PLAN

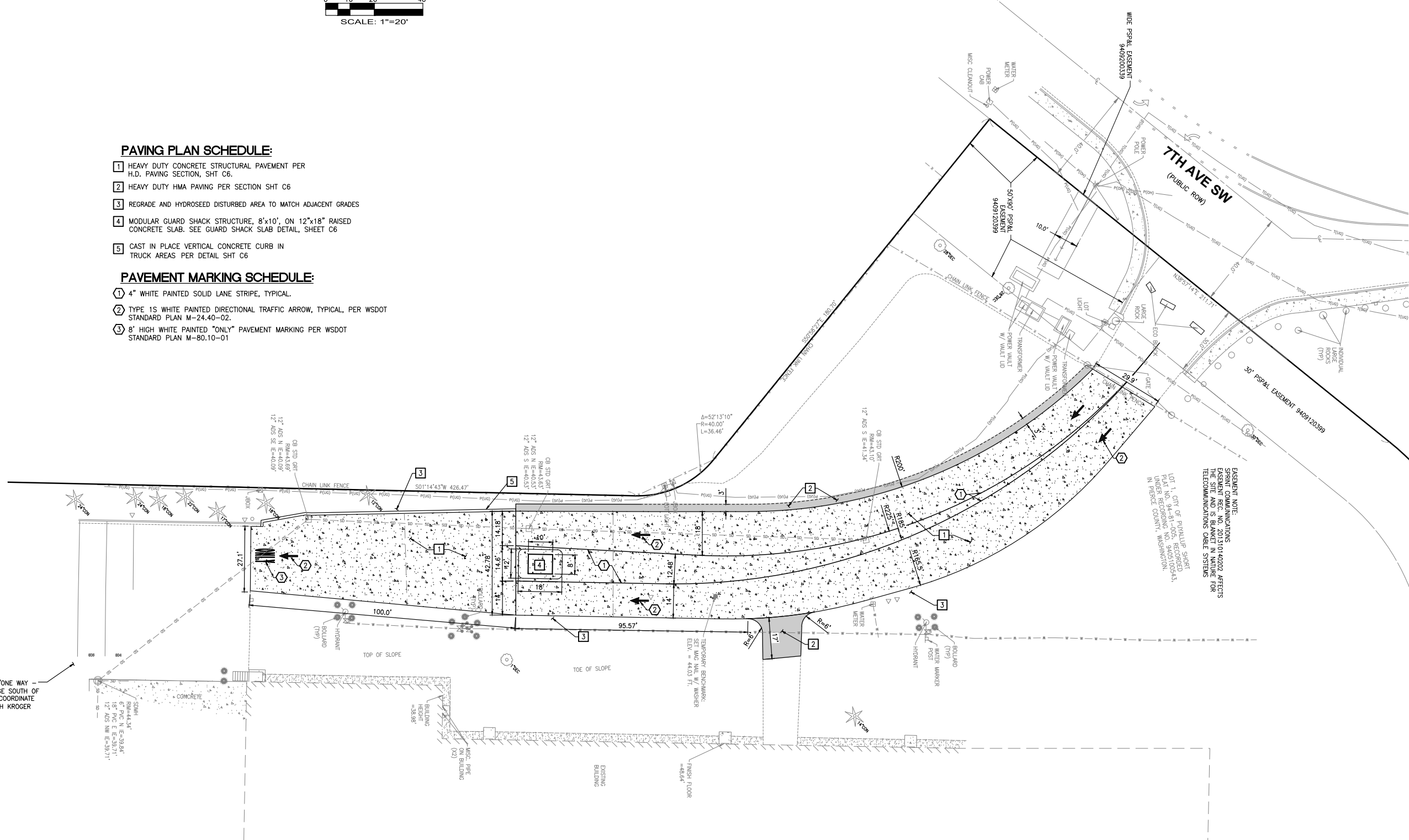


### PAVING PLAN SCHEDULE:

- 1 HEAVY DUTY CONCRETE STRUCTURAL PAVEMENT PER H.D. PAVING SECTION, SHT C6.
- 2 HEAVY DUTY HMA PAVING PER SECTION SHT C6
- 3 REGRADE AND HYDROSEED DISTURBED AREA TO MATCH ADJACENT GRADES
- 4 MODULAR GUARD SHACK STRUCTURE, 8'x10', ON 12"x18" RAISED CONCRETE SLAB. SEE GUARD SHACK SLAB DETAIL, SHEET C6
- 5 CAST IN PLACE VERTICAL CONCRETE CURB IN TRUCK AREAS PER DETAIL SHT C6

### PAVEMENT MARKING SCHEDULE:

- 1 4" WHITE PAINTED SOLID LANE STRIPE, TYPICAL.
- 2 TYPE 1S WHITE PAINTED DIRECTIONAL TRAFFIC ARROW, TYPICAL, PER WSDOT STANDARD PLAN M-24.40-02.
- 3 8' HIGH WHITE PAINTED "ONLY" PAVEMENT MARKING PER WSDOT STANDARD PLAN M-80.10-01



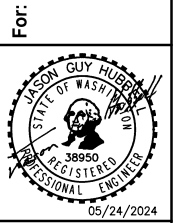
ESSENTIAL NOTE:  
SPRINT COMMUNICATIONS  
EASEMENT REC. NO. 201310140202 AFFECTS  
THE SITE AND IS BLANKET IN NATURE FOR  
TELECOMMUNICATIONS CABLE SYSTEMS

PROVIDE AND INSTALL "ONE WAY - DO NOT ENTER" SIGNAGE SOUTH OF THIS PROJECT AREA. COORDINATE EXACT LOCATION(S) WITH KROGER PROJECT MANAGER.

No.	Date	By	Chd.	Appr.

Revision

**DOUG HARDY**  
WEST REGION ENGINEER  
**KROGER LOGISTICS**  
MAINTENANCE & ENGINEERING  
2201 SOUTH WILMINGTON AVE.  
COMPTON, CA 90220



Scale:	Horizontal	Vertical
	1"=20'	NA
Designed	DL	
Drawn	RDC	
Checked	DL	
Approved	JGH	
Date	2/16/24	

**Barghausen Consulting Engineers, Inc.**  
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**APPROVED**

BY \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING

DATE \_\_\_\_\_

**NOTE:** THIS APPROVAL IS VOID 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.

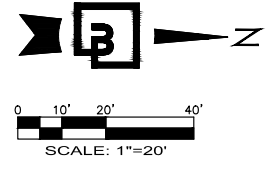
Job Number  
**18510**

Sheet  
**C4** of **6**

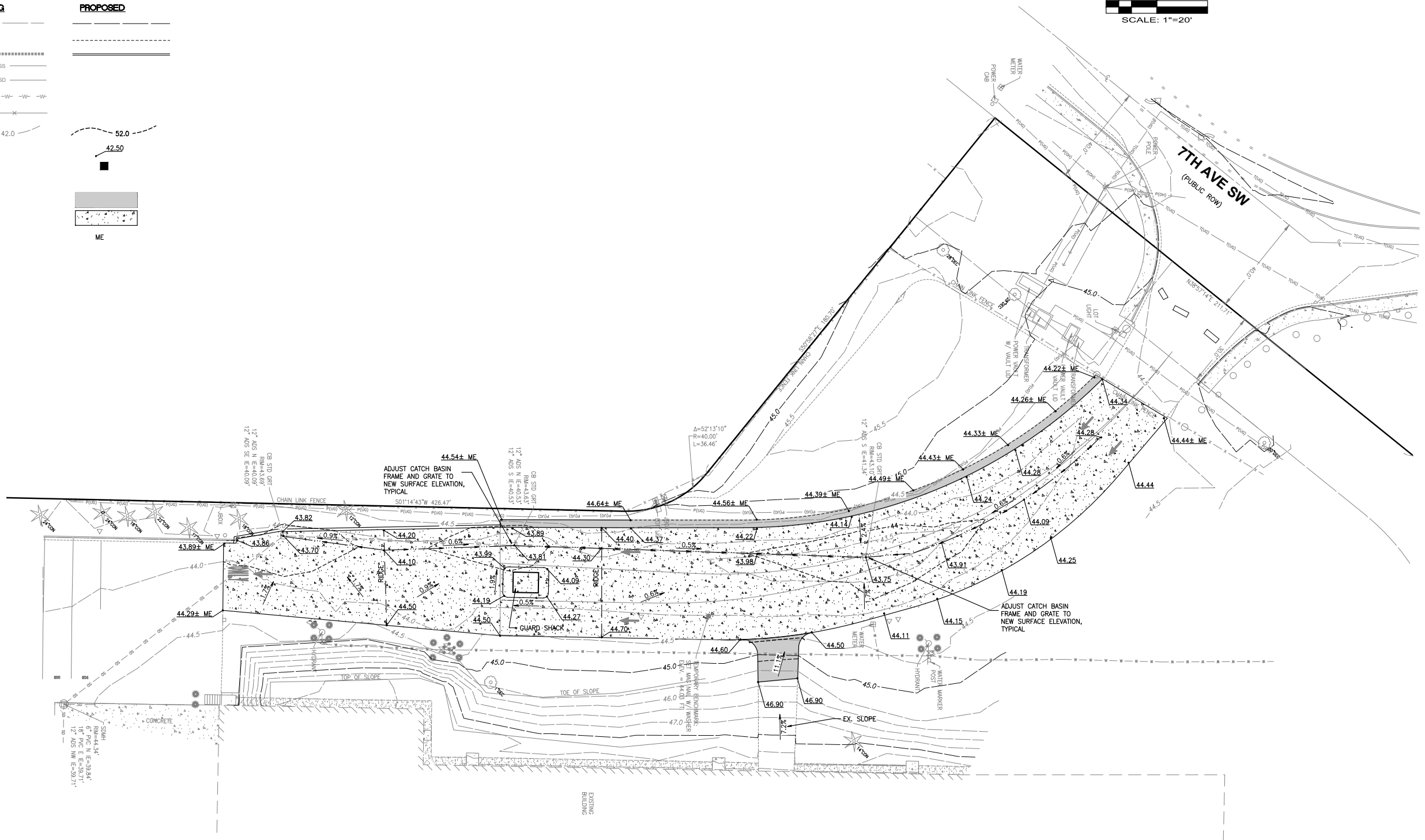


Know what's below.  
Call before you dig.

PORTION OF THE NE1/4 OF SEC. 21, TWP. 20 N., RGE 4 E., W. M.  
CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON  
**GRADING AND STORM DRAINAGE PLAN**



DESCRIPTION	EXISTING	PROPOSED
EASEMENT	---	---
SAWCUT LINE	---	---
CURB	=====	=====
SANITARY SEWER	SS	SS
STORM	SD	SD
WATER	-W-W-W-W-	-W-W-W-W-
FENCE	X-X-X-X	X-X-X-X
GROUND CONTOUR	42.0	52.0
SPOT ELEVATION		42.50
CATCH BASIN (CB)	□	■
FIRE HYDRANT	⊕	⊕
ASPHALT PAVEMENT		▨
CONCRETE PAVEMENT		▩
MATCH EXISTING ELEVATION		ME



Revision  
No. Date By Cld. Appr.  
Title: **GRADING AND STORM DRAINAGE PLAN**  
**FRED MEYER - DISTRIBUTION CENTER**

For: **DOUG HARDY**  
**WEST REGION ENGINEER**  
**KROGER LOGISTICS**  
**MAINTENANCE & ENGINEERING**  
**2201 SOUTH WILMINGTON AVE.**  
**COMPTON, CA 90220**



Scale:	Horizontal	1"=20'	Vertical	NA					
Designed	DL	Drawn	RDC	Checked	DL	Approved	JGL	Date	2/16/24

**Barghausen Consulting Engineers, Inc.**  
18215 72nd Avenue South  
Kent, WA 98032  
425.251.6222  
barghausen.com



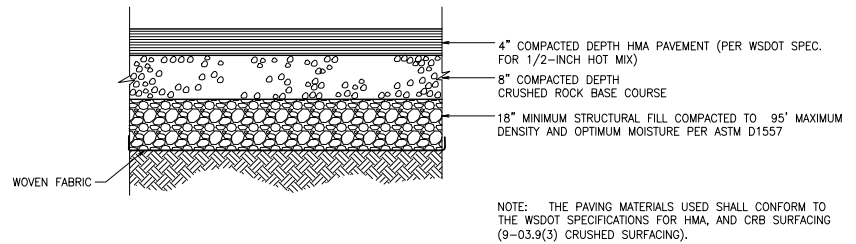
Job Number: **18510**  
Sheet: **C5** of **6**

**APPROVED**  
By: \_\_\_\_\_  
CITY OF PUYALLUP  
DEVELOPMENT ENGINEERING  
Date: \_\_\_\_\_  
**NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.  
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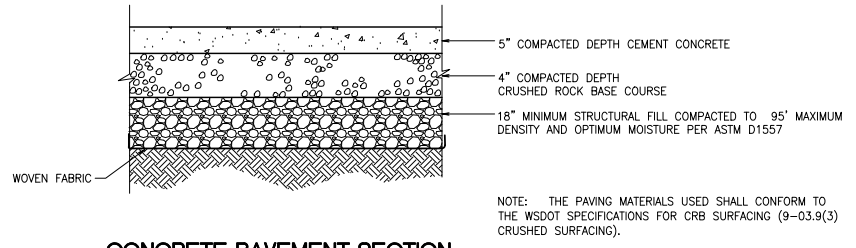
Know what's below.  
Call before you dig.

PORTION OF THE NE1/4 OF SEC. 21, TWP. 20 N., RGE 4 E., W. M.  
 CITY OF PUYALLUP, PIERCE COUNTY, WASHINGTON  
**CONSTRUCTION DETAILS**



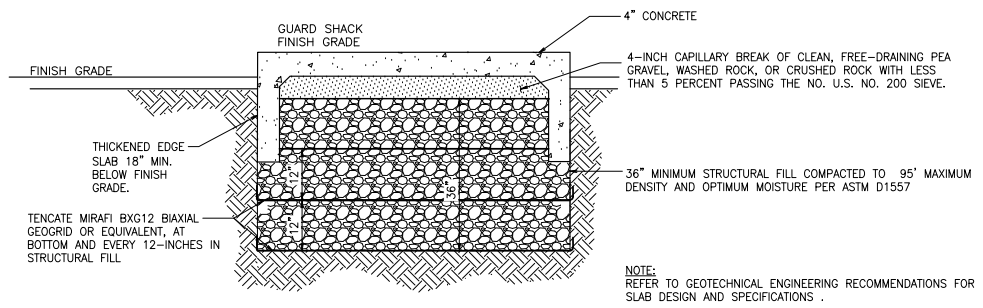
**ASPHALT PAVEMENT SECTION**

NOT TO SCALE



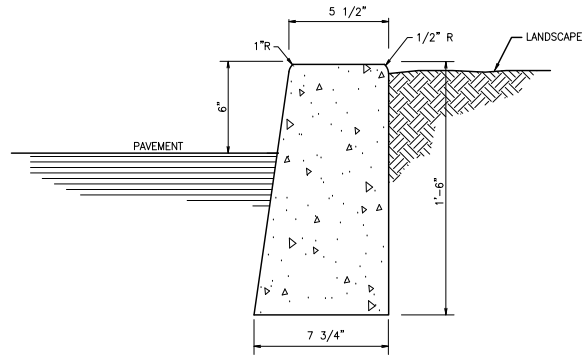
**CONCRETE PAVEMENT SECTION**

NOT TO SCALE



**GUARD SHACK SLAB DETAIL**

NOT TO SCALE



**ONSITE BARRIER CURB**

NOT TO SCALE

**MATERIALS OF CONSTRUCTION**

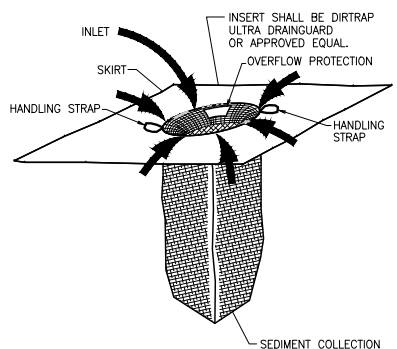
- FABRIC: NEEDLE PUNCHED NON-WOVEN GEOTEXTILE MATERIAL. FABRIC IS RESISTANT TO ULTRAVIOLET AND BIOLOGICAL DEGRADATION AND A BROAD RANGE OF CHEMICALS.
- APPARENT OPENING SIZE (AOS): 80 US STANDARD SIEVE (0.180 MM)
- GRAB TENSILE STRENGTH: 200 LBS
- PUNCTURE STRENGTH: 130 LBS
- MULLEN BURST: 400 PSI
- TRAPEZOIDAL TEAR: 85 LBS
- WATER FLOW RATE: 110 GPM/FT2
- PERMEABILITY: 0.38 CM/SECOND

**DIMENSIONS:**

- SKIRT: 24"x36"
- SOCK FILTER/SEPARATOR: 10" D x 24" L

**DISPOSAL REQUIREMENTS:**

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



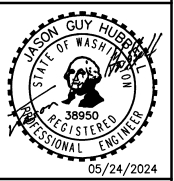
**CATCH BASIN INSERT**

NOT TO SCALE

Revision  
 No. Date By Cld. Appr.

Title: **CONSTRUCTION DETAILS**

For: **DOUG HARDY  
 WEST REGION ENGINEER  
 KROGER LOGISTICS  
 MAINTENANCE & ENGINEERING  
 2201 SOUTH WILMINGTON AVE.  
 COMPTON, CA 90220**



Scale: Horizontal 1"=20' Vertical NA

Designed DL  
 Drawn RDC  
 Checked DL  
 Approved JGL  
 Date 2/16/24

**Barghausen Consulting Engineers, Inc.**  
 18215 72nd Avenue South  
 Kent, WA 98032  
 425.251.6222 [barghausen.com](http://barghausen.com)



**APPROVED**  
 BY: \_\_\_\_\_  
 CITY OF PUYALLUP  
 DEVELOPMENT ENGINEERING  
 DATE: \_\_\_\_\_  
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Job Number **18510**  
 Sheet **C6** of **6**

# Tab 5.0



## **5.0 CONVEYANCE SYSTEM ANALYSIS AND DESIGN**

No new stormwater facilities are proposed. The project area will continue to be served by the existing onsite stormwater system.

# Tab 6.0



## **6.0 SPECIAL REPORTS AND STUDIES**

There are no special reports or studies for this project.

# Tab 7.0



## **7.0 OTHER PERMITS**

Other permits that may be required for this project include:

- SEPA Environmental Checklist
- Civil Construction Permit
- Building Permits
- Construction Stormwater General Permit

# Tab 8.0



## 8.0 ESC ANALYSIS AND DESIGN

An erosion and sediment control plan will be prepared as part of the civil construction plan set. These plans will follow the measures outlined in the Erosion and Sediment Control Standards. The measures outlined in the Manual are discussed below.

Clearing Limits: Prior to any site clearing or grading, the construction limits will be clearly marked with a combination of silt fencing and/or brightly colored survey tape.

Cover Measures: Temporary and permanent cover measures shall be provided when necessary to protect disturbed areas. Temporary cover shall be installed if an area is to remain unworked for more than seven days during the dry season (May 1 to September 30) or for more than two days during the wet season (October 1 to April 30), unless otherwise noted by the City. Any area to remain unworked for more than 30 days shall be seeded or sodded, unless the City determines that winter weather makes vegetation establishment unfeasible. During the wet season, slopes and stockpiles 3H:1V or steeper with more than 10 feet of vertical relief shall be covered if they are to remain unworked for more than 12 hours. The CESCL lead shall be responsible for determining what specific measures to implement to suit changing site conditions.

Perimeter Protection: Silt fence shall be installed as needed along the project limits prior to any upstream grading to prevent and filter sediment sheet flow from adjacent areas.

Traffic Area Stabilization: A construction entrance will be installed to minimize erosion tracking of sediment offsite. Should there be parking areas used by construction traffic onsite they shall also require stabilization.

Sediment Retention: Surface water collected from disturbed areas of the site shall be routed through a sediment removal device prior to release from the site.

Surface Water Controls: Surface water controls shall be installed in the form of temporary "v" ditches with rock check dams to intercept and convey surface water from disturbed areas.

Dust Control: Preventative measures to minimize the wind transport of soil shall be taken as necessary depending on site conditions. The most common method shall be to spray exposed soils until wet, but not so wet as to cause the soils to generate runoff from the spraying.

# Tab 9.0



**9.0 BOND QUANTITIES, FACILITY SUMMARIES, AND DECLARATION OF COVENANT**

All required bonding and financial guarantees will be provided as required by the City of Puyallup.

# Tab 10.0



## **10.0 OPERATIONS AND MAINTENANCE MANUAL**

No new stormwater facilities are proposed. An Operations and Maintenance Manual is not required.