



City of Sumner Shoreline Substantial Development Permit Application

(Please fill out ALL fields unless otherwise noted)

Community Development
1104 Maple Street, Suite 250
Sumner, WA 98390
Tel. (253)299-5530 Fax: (253)299-5539
www.ci.sumner.wa.us

File Number: _____

Site/Project Address (if available):		Parcel #:		
Owner:	Phone:	Email:		
Owner Address:		City:	State:	Zip:
Surveyor/Engineer/Contractor:		Phone:	Contractor License Number:	
Address:	Email:	City:	State:	Zip:
Contact Person:	Phone:	Fax:		
Contact Address:	Email:	City:	State:	Zip:
Description of Project:				

Supporting Materials Required:

Office Applicant - (please check off all applicable "applicant" boxes)

This Application Form and Checklist

Site Plan (1:40 scale - No site plan required for interior tenant improvements) 1 - Copy 8.5" x 11"

- Vicinity map
- Project zoning
- Property line dimensions
- All public and private roads, driveway access and all easements (specify type on or adjacent to the site)
- Existing and proposed fire hydrant locations and all water main sizes; if no hydrants on site, distance to the nearest hydrants
- All major man-made features; drainage ditches, railroad tracks, etc.
- Proposed building locations; setbacks from property lines and distance between structures proposed and existing
- Building dimensions including height and number of stories
- Paved and parking areas including parking locations, maneuvering areas, loading areas, handicapped stalls, walkways, etc
- Type of construction
- Proposed uses
- Proposed landscaped areas
- Outside storage areas, including type of surface and product to be stored
- Proposed trash dumpster location
- Proposed on-site utilities including sanitary sewer, storm drainage, water services (both domestic fire irrigation)
- Type of detention/retention system and treatment for stormwater
- Environmental constraints identified and delineated
- Is the project in a flood zone? What is the base flood elevation?



Shoreline Substantial Development Permit Application

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PAGE 2

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Office Applicant - (please check off all applicable "Applicant" boxes)

Shoreline Diagrams	5 - Copy or 11" x 17"
Mailing list of all property owners within 500 ft, 1000 if project is in M1 zone	2 - Sets of labels
Landscape Plan	5 - Copy or Reduction 11" X 17"
Title Report	2 - Copy or Reduction 8.5" x 11"
Legal Description	2 - Copy or Reduction 8.5" x 11"
SEPA Checklist (Consult staff concerning fee)	5 - Copy or Reduction 8.5" x 11"
Elevations (Design Review Required– please consult Planning staff)	5 - Copies- 11" x 17"
Permit fee (Please consult the Permit Specialist for the fee amount)	

NOTES:

I HEREBY CERTIFY THAT I HAVE READ AND EXAMINED THIS APPLICATION AND KNOW THE SAME TO BE TRUE AND CORRECT. ALL PROVISIONS OF LAWS AND ORDINANCES GOVERNING THIS TYPE OF WORK WILL BE COMPLIED WITH WHETHER SPECIFIED HEREIN OR NOT.

**BY LEAVING THE CONTRACTOR INFORMATION SECTION BLANK, I HEREBY CERTIFY FURTHER THAT CONTRACTORS (GENERAL OR SUBCONTRACTORS) WILL NOT BE HIRED TO PERFORM ANY WORK IN ASSOCIATION WITH THIS PERMIT. (building permits only)

SIGNATURE OF OWNER / AUTHORIZED AGENT

PRINTED NAME

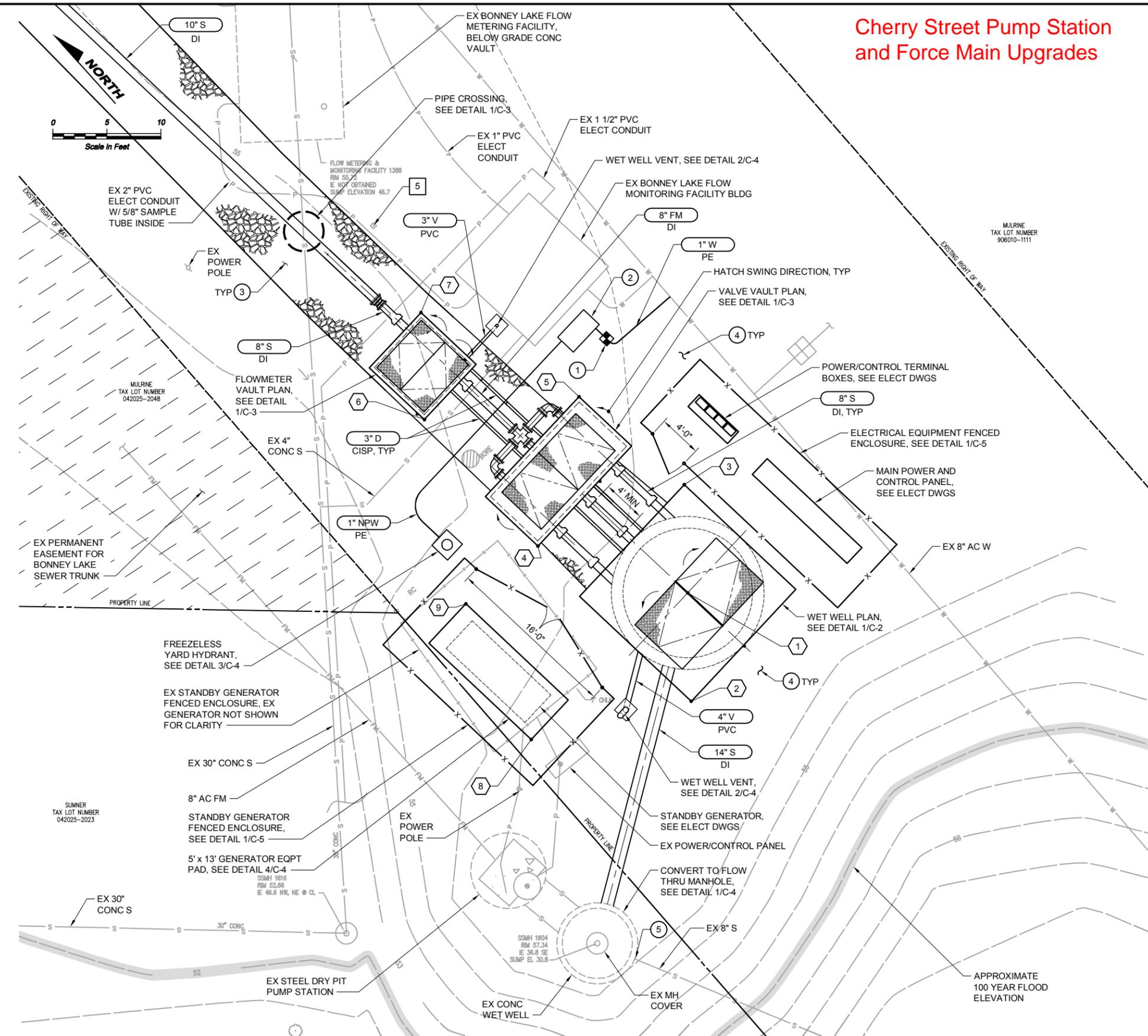
DATE: ____/____/____

Cherry Street Pump Station



Disclaimer: The map features are approximate and are intended only to provide an indication of said feature. Additional areas that have not been mapped may be present. This is not a survey. The County assumes no liability for variations ascertained by actual survey. **ALL DATA IS EXPRESSLY PROVIDED 'AS IS' AND 'WITH ALL FAULTS'.** The County makes no warranty of fitness for a particular purpose. 2014/11/04

Cherry Street Pump Station and Force Main Upgrades



NOTES:

1. SURVEY CONTROL NUMBERS # & # SEE DRAWING G-4.
2. EXISTING LIFT STATION FACILITIES ARE SHOWN AS THEY SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. SEE DEMO DWGS FOR DECOMMISSIONING, DEMOLITION AND ABANDONING OF EXISTING LIFT STATION FACILITIES.
3. SEE SPEC SECTION 01014 FOR CONSTRUCTION SEQUENCING AND CONSTRAINTS.
4. PIPE TRENCH SECTION PER DETAIL 1/C-11.

CONSTRUCTION NOTES:

1. INSTALL WATER SERVICE CONNECTION PER CITY STANDARD DETAIL W3-1. METER BOX AND LID SHALL BE TRAFFIC BEARING. FINAL LOCATION AS DIRECTED BY CITY IN FIELD.
2. INSTALL RPBA PER DETAIL W3-8.1. PROTECTIVE COVERING SHALL BE A HEATED, INSULATED, FLIP TOP, LOCKABLE FIBERGLASS ENCLOSURE, 120V, SINGLE PHASE, HOT BOX, OR APPROVED EQUAL. ENCLOSURE SHALL BE SIZED PER RPBA. INSTALL ON CONC PAD, SIZE AS RECOMMENDED BY ENCLOSURE MFR. PROVIDE SCH 80 PVC SLEEVES FOR PIPE THROUGH CONC PAD. FINAL LOCATION AS DIRECTED BY CITY IN FIELD.
3. AT COMPLETION OF CONSTRUCTION, RESTORE ACCESS ROAD WITH 3 INCHES COMPACTED CSTC TO MATCH EXISTING GRADE. CUT, REMOVE AND DISPOSE OF EXISTING GRAVEL/BASE MATERIAL AS REQUIRED.
4. AT COMPLETION OF CONSTRUCTION, ALL DISTURBED GRASS AREAS SHALL BE REMOVED TO THE SATISFACTION OF THE CITY, REPLACED WITH 4 INCHES TOPSOIL AND HYDROSEEDDED. FINISHED GRADE SHALL MATCH EXISTING.
5. VERIFY INVERT ELEVATION OF EXISTING 8" SEWER PRIOR TO CONSTRUCTION OF NEW PUMP STATION FACILITIES. NOTIFY ENGINEER OF ANY DISCREPANCIES. SEE DETAIL 1/C-4 FOR REFERENCE.

COORDINATE TABLE

PT #	NORTHING	EASTING	DESCRIPTION
1	683440.64	1207120.71	CENTER, WET WELL
2	683432.99	1207114.24	SW CORNER, WET WELL
3	683448.30	1207127.17	NE CORNER, WET WELL
4	683453.15	1207113.30	SW CORNER, VALVE VAULT
5	683460.86	1207125.36	NE CORNER, VALVE VAULT
6	683468.87	1207113.31	SW CORNER, FLOWMETER VAULT
7	683476.44	1207119.70	NE CORNER, FLOWMETER VAULT
8	683453.64	1207104.77	SW CORNER, GEN EQPT PAD
9	683440.27	1207100.88	NE CORNER, GEN EQPT PAD

Call 48 Hours Before You Dig

1-800-424-5555
UNDERGROUND SERVICE



**Preliminary
60% Review Set**

Not For Construction
01-2015

FILE NAME (UPDATED BY) [REDACTED]
 PROJECT DATE & TIME [REDACTED]
 JAN 07 2015 09:02:29
 S:\CAD\SUMNER\14-10347\CHERRY ST PS-FM UPGRADE DESIGN\DWGS\14-10347_C-1.DWG (PLS)
 XREFS: Aesha, P14-10347_C-1, P14-10347_C-2, P14-10347_C-3, P14-10347_C-4, P14-10347_C-5, P14-10347_C-6, P14-10347_C-7, P14-10347_C-8, P14-10347_C-9, P14-10347_C-10, P14-10347_C-11, P14-10347_C-12, P14-10347_C-13, P14-10347_C-14, P14-10347_C-15, P14-10347_C-16, P14-10347_C-17, P14-10347_C-18, P14-10347_C-19, P14-10347_C-20, P14-10347_C-21, P14-10347_C-22, P14-10347_C-23, P14-10347_C-24, P14-10347_C-25, P14-10347_C-26, P14-10347_C-27, P14-10347_C-28, P14-10347_C-29, P14-10347_C-30, P14-10347_C-31, P14-10347_C-32, P14-10347_C-33, P14-10347_C-34, P14-10347_C-35, P14-10347_C-36, P14-10347_C-37, P14-10347_C-38, P14-10347_C-39, P14-10347_C-40, P14-10347_C-41, P14-10347_C-42, P14-10347_C-43, P14-10347_C-44, P14-10347_C-45, P14-10347_C-46, P14-10347_C-47, P14-10347_C-48, P14-10347_C-49, P14-10347_C-50, P14-10347_C-51, P14-10347_C-52, P14-10347_C-53, P14-10347_C-54, P14-10347_C-55, P14-10347_C-56, P14-10347_C-57, P14-10347_C-58, P14-10347_C-59, P14-10347_C-60, P14-10347_C-61, P14-10347_C-62, 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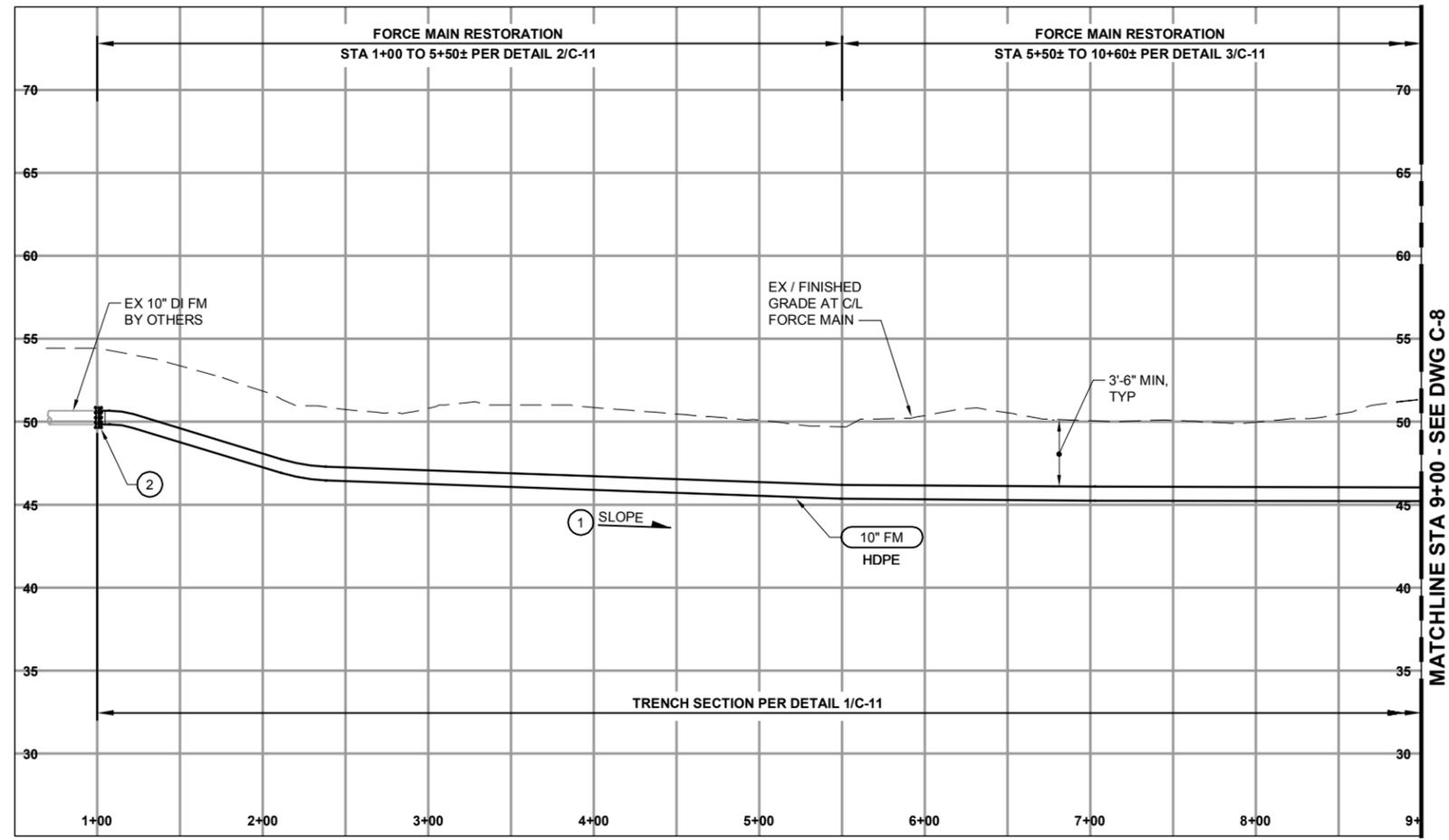
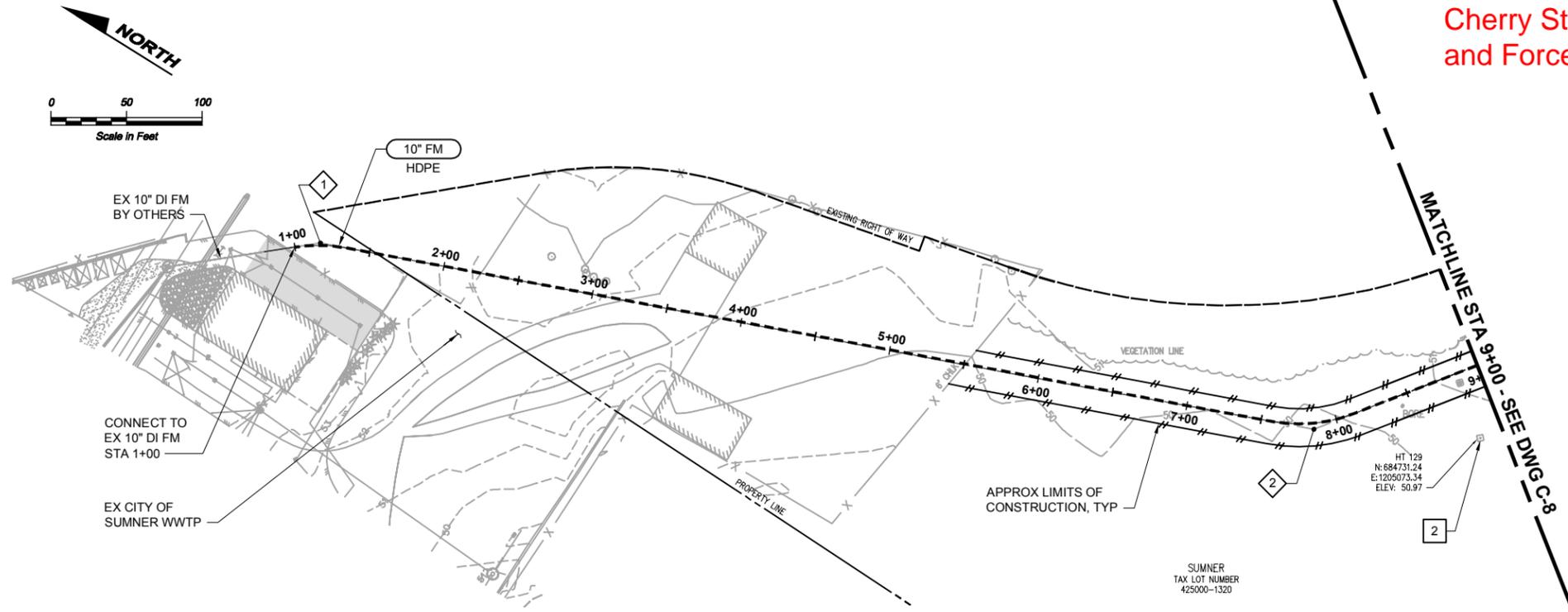
Cherry Street Pump Station and Force Main Upgrades

NOTES:

1. SURVEY CONTROL NUMBERS # & # SEE DWG G-4.
2. LIMIT BEND RADIUS OF HDPE FORCE MAIN TO TWICE MFRS ALLOWABLE MINIMUM BEND RADIUS.

CONSTRUCTION NOTES:

1. INSTALL FORCE MAIN WITH GENERAL SLOPE AS SHOWN WITHOUT INTERMEDIATE SAGS OR HIGH POINTS, EXCEPT WHERE IDENTIFIED/APPROVED BY THE ENGINEER.
2. CONNECT TO EXISTING 10" DI FM WITH HDPE FLANGE ADAPTER WITH BACKUP RING AND RFCA.



FILE NAME (UPDATED BY) PLOT DATE & TIME
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No.	Revision	Date	By	App'd



BHC Consultants, LLC
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Designed: T. Whitehouse, P.E.
 Drawn: P. Simon
 Checked: A. Schuyler, P.E.
 Approved:

Scale:
 Horiz: 1" = 50'-0"
 Vert: 1" = 5'-0"
 One Inch at Full Scale
 If Not One Inch Scale Accordingly



City of Sumner
Public Works Department
 1104 Maple Street, Suite 260
 Sumner, WA 98390
 253-299-5700 FAX 253-299-5539

CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
FORCE MAIN
PLAN AND PROFILE
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Drawing: **C-7**
 Sheet: **X** of **X**
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 Date: January 2015

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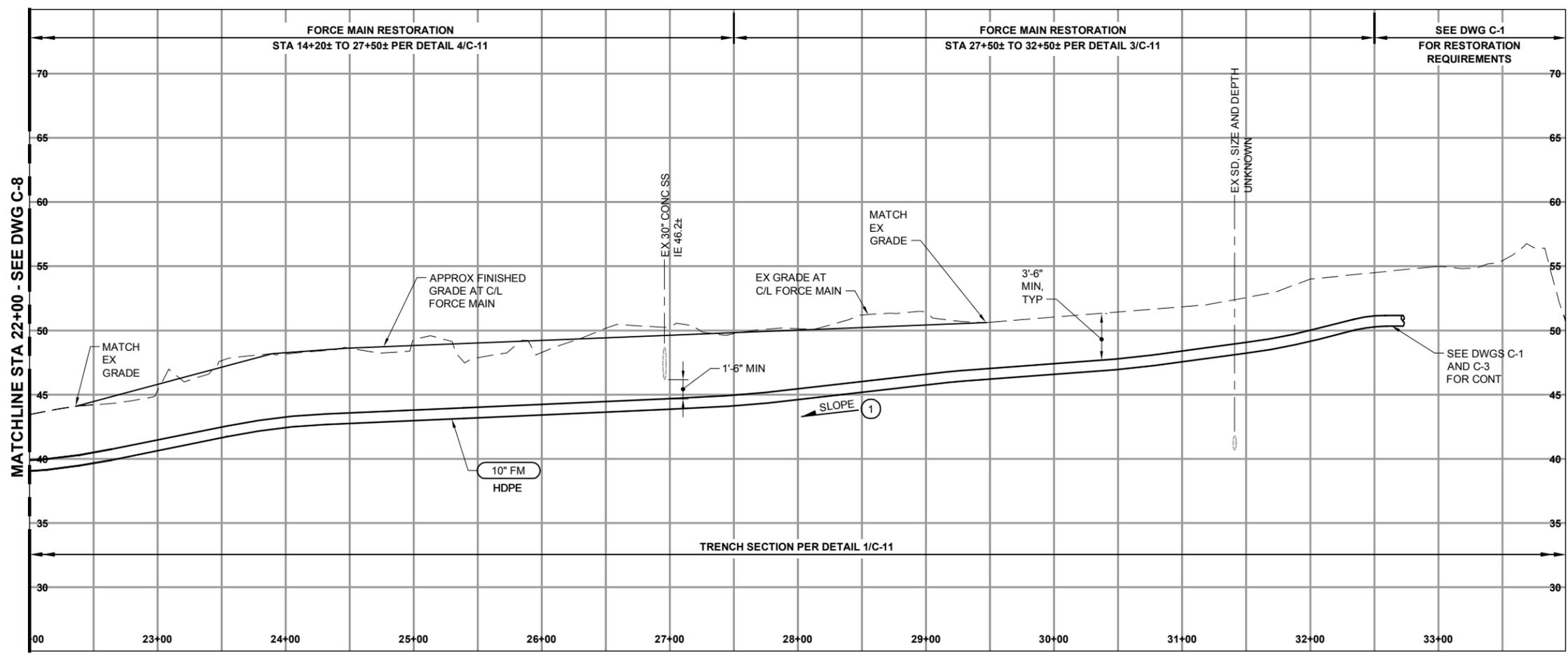
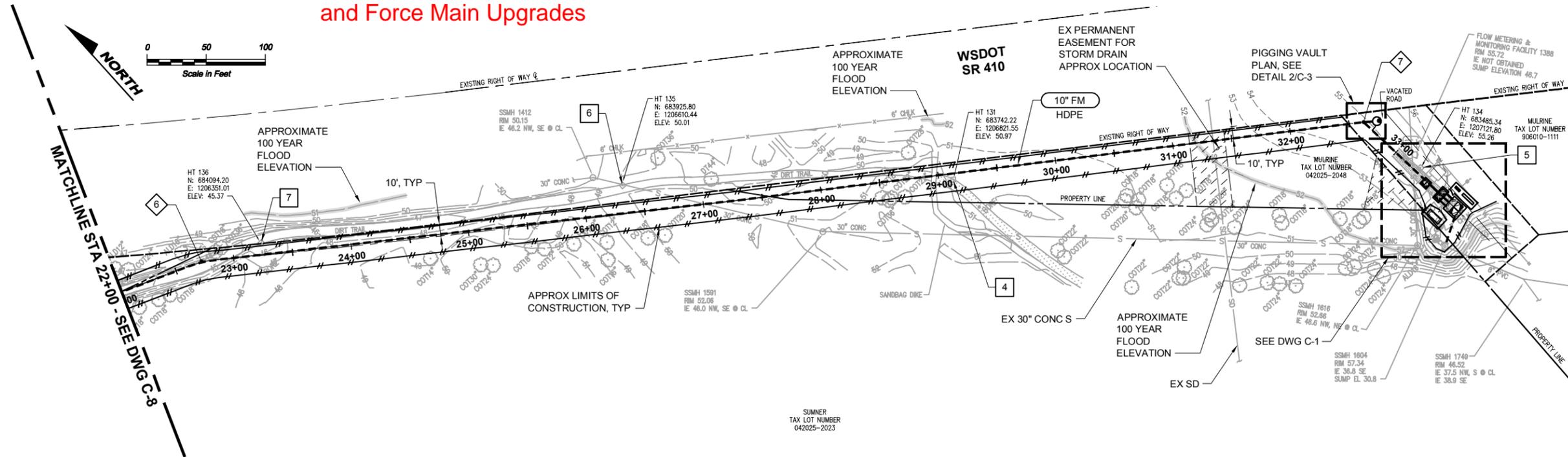
Cherry Street Pump Station and Force Main Upgrades

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**Preliminary
60% Review Set**
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FILE NAME (UPDATED BY) S:\CADD\SUMNER\14-10347 CHERRY ST FS-FM UPGRADE DESIGN\DWGS\14-10347_C-7-8-SUMING (PLS) JAN 15 2015 12:26:12
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CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
**FORCE MAIN
PLAN AND PROFILE**
STA 22+00 TO 32+50±

Drawing: **C-9**
Sheet: **X** of **X**
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Date: January 2015

Habitat Management Plan

Cherry Street Pump Station #7 & Force Main Upgrades City of Sumner, WA



Prepared By:
Widener & Associates
10108 32nd Ave W Ste. D
Everett, WA 98204

December 2014

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Contents

1.0	Introduction	5
2.0	Project Description.....	5
3.0	Existing Environmental Conditions	11
4.0	Species and Habitat Presence	11
4.1	Puyallup River	11
4.2	Floodplain.....	12
4.3	Wetlands	12
5.0	Project Effects on Fish and Wildlife Habitat	12
6.0	Minimization and Mitigation Measures.....	12
6.1	Minimization/Avoidance for Temporary Impacts.....	12
6.2	Mitigation for permanent impacts.....	13
6.3	Monitoring and Maintenance	13
6.4	Performance Standards and Contingency Plan.....	13
7.0	Local Management Recommendations	13
8.0	Conclusion	14
9.0	References.....	15
	Figure 1: Vicinity MapThis page left blank intentionally for printing purposes.....	7
	Figure 2: Project Area	9

Appendix A – Site Plans

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1.0 Introduction

This habitat management plan has been prepared for the Cherry Street Pump Station #7 and Force Main Upgrade construction project (herein referenced as the Cherry Street Pump Station project or the project) in accordance with Sumner Municipal Code (SMC) 16.56.080. The Code requires a management plan for any proposed development within 1,000 feet of fish and wildlife habitat areas. These fish and wildlife habitat include¹:

- A. Areas with which federally or state-listed endangered, threatened, or sensitive species of fish, wildlife, or plants have a primary association;
- B. Areas with habitats and species of local importance, including the following:
 - 1. Areas with which state-listed monitor or candidate species or federally listed candidate species have a primary association, and which, if altered, may reduce the likelihood that the species will maintain and reproduce over the long term;
 - 2. Special habitat areas which may provide specific habitats which certain animals and plants require such as breeding habitat, winter range, and movement corridors;
- C. Naturally occurring ponds under 20 acres and their submerged aquatic beds that provide fish and wildlife habitat;
- D. Waters of the state, including all water bodies classified by the Washington State Department of Natural Resources water typing classification system as detailed in WAC 222-16-031;
- E. Lakes, ponds, streams, and rivers planted with game fish by a governmental or tribal entity;
- F. State natural area preserves and natural resource conservation areas. (Ord. 2071 § 34, 2003: Ord. 1546 § 1 (part), 1992)

As the proposed project will occur over the White River, a water of the state, a habitat management plan is required.

2.0 Project Description

The Cherry Street Pump Station project proposes to upgrade the pump station adjacent to and south of SR410, at 70th St Ct E and directly across from Cherry Street. The existing structure's subgrade dry well will be abandoned. The wet well inlet/outlet will be reconfigured, and a new 12-foot diameter wet well submersible pump station will be constructed. The forcemain leading to the waste water treatment plant located at the junction of the Puyallup and White Rivers will be upgraded to a 10-inch diameter

¹ SMC 16.56.050 <http://www.codepublishing.com/wa/sumner/>

line (approximately 2,800 linear feet). The forcemain will be installed approximately 3 – 8 feet below ground surface and will be directionally bored where it crosses the BNSF tracks and E Main Avenue. Though the project will be within the 200-foot shoreline jurisdiction of the Puyallup River, no in-water or above-water work will be required for this project. The forcemain will be installed approximately 120 feet north of the river, at its closest point. This work will require the removal of up to 30 deciduous trees. They will be used as large woody debris (LWD) or as other habitat features within the shoreline where possible. Other project activities will involve final site restoration. This project is located in Sections 23, 25, and 26 of Township 20 North and Range 4 East, refer to Figure 1. See Figure 2 for alignment location and project plans (Appendix A) for more details.

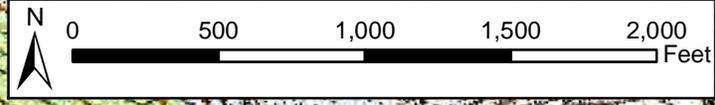
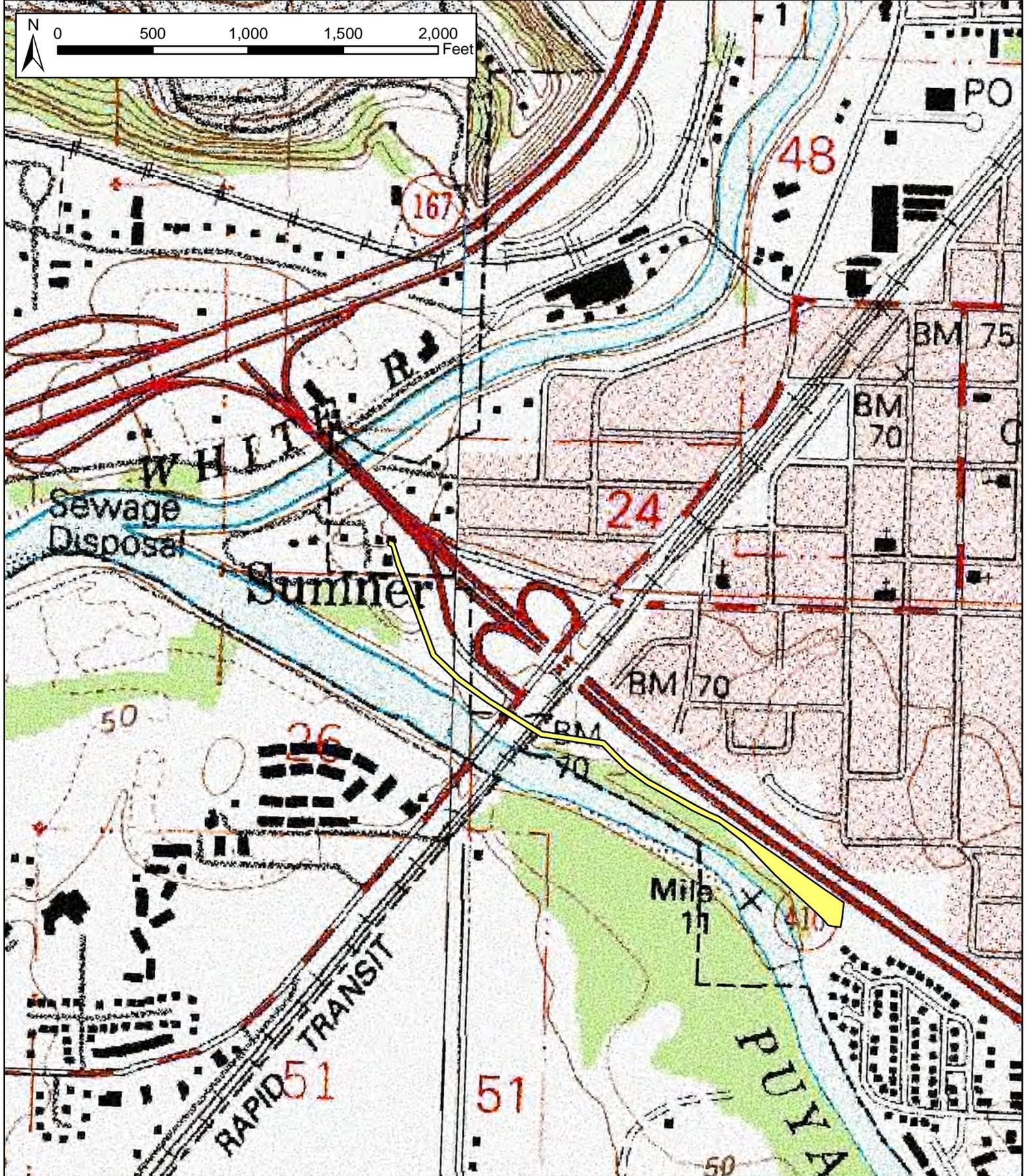


Figure 1: Vicinity Map
 Cherry Street Pump Station and Forcemain Upgrades

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Figure 2: Project Area Map
Cherry Street Pump Station and Forcemain Upgrades

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3.0 Existing Environmental Conditions

The project is located on the north side of the Puyallup River, near approximately river mile (RM) 10.5. The project alignment is located between the river and SR410. The river runs northwestward along the project area. Surrounding areas are zoned as low density residential (8.5 and 12) according to the City of Sumner zoning map.

The pipe alignment is situated at the top of the bank of the Puyallup River. Soils in the area consist of Pilchuck fine sand and Puyallup fine sandy loam, according to the Natural Resources Conservation Service Web Soil Survey.

The river at this location is buffered by an approximate 150-foot buffer of deciduous trees (alder, cotton wood, and willows).

4.0 Species and Habitat Presence

Habitat within 1,000 feet of the project area include the Puyallup River. There are no other waterbodies (including wetlands) in the vicinity.

4.1 Puyallup River

The Puyallup River is within WRIA 10 and drains an area of approximately 1,065 square miles. It originates from the Klapatche area and the Puyallup glacier on the southwest slopes of Mt. Rainier (Kerwin 1999). The river adjacent to the project area flows in a northwesterly direction outletting into Commencement Bay approximately 10.5 miles from the project area. Small segments of the Puyallup River is listed on the Department of Ecology's (DOE) List of Impaired Waterbodies as a Category 5 Water for mercury and bacteria (DOE 2012). The segment in the project vicinity is not listed. The Puyallup River Watershed has a Total Maximum Daily Load (TMDL) for fecal coliform.

Significant human alteration of the Puyallup River and surrounding habitat began in the late 1800's with major dredging activities of the lower Puyallup River. There was significant loss of estuarine environment and function in Commencement Bay. In 1906, a major flood event caused a log jam on the White River, diverting it into the Puyallup River basin. In the years following, major channel realignment, bank stabilization, and diking projects were constructed in the lower Puyallup and by 1917, the Puyallup River relocation project was complete (Kerwin 1999). Because of flood control efforts, habitat elements such as large woody debris (LWD), habitat variety, refugia, and off channel habitat are virtually non-existent in the lower Puyallup River.

A search of the Washington State Department of Fish and Wildlife (WDFW) Priority Habitat and Species (PHS) and SalmonScape databases was conducted to identify the presence of habitats and species at the site. Salmonid species documented to utilize the Puyallup River in the project vicinity include: Chinook salmon, Coho, Chum, Pink, Bull Trout, and Steelhead trout (WDFW 2014a, b). Of these, Chinook, Bull trout and Steelhead are listed under the Endangered Species Act. There no priority terrestrial habitats in or near the project.

4.2 Floodplain

The proposed project will be in portions of the 100-year floodplain of the Puyallup River (Sumner 2003). As the project will replace existing facilities, it will not increase flood elevations compared to existing conditions. There will be no net fill as a result of this project.

4.3 Wetlands

A search of the National Wetland Inventory and City maps was conducted. No wetlands were identified within or near project limits. The project is located at the top of a steep bank leading down to the river and there are no conditions for wetlands.

5.0 Project Effects on Fish and Wildlife Habitat

The proposed project will not require in-water work. All work will occur at least 100 feet landward of the OHWM of the Puyallup River. Therefore, little to no impacts to the aquatic habitat are anticipated.

As the project will involve significant ground disturbing work, there is the potential of erosion and sedimentation to occur. Silt fencing will be installed to prevent sediments from sloughing down the bank where necessary.

The project will require approximately 1 acre of clearing. Up to 30 deciduous trees (alder and cottonwood) will be removed for pump station and forcemain upgrades. These trees are far enough from the river and do not contribute shade or leaf litter to the river. The project will not result in any increases in impervious surfaces as it only involves replacement/installation of a pipeline and pump station equipment.

6.0 Minimization and Mitigation Measures

6.1 Minimization/Avoidance for Temporary Impacts

During the course of the entire project, standard best management practices (BMPs) and other minimization measures will be implemented prior to and maintained throughout construction in order to avoid or reduce impact to fish and wildlife habitat. These BMPs include, but are not limited to:

- Installation of appropriate sediment and erosion control devices where appropriate, including:
 - Silt fence
 - Straw wattle
 - Hydroseeding
- Limiting ground disturbance to the minimum amount necessary and marking clearing limits with high visibility fencing.
- Implementation of a spill prevention, control and countermeasures (SPCC) plan to ensure that all potential contaminants are properly contained and handled.
- Implementation of the stormwater pollution prevention plan (SWPPP) and monitoring requirements in accordance with the NPDES permit.
- Restoration of all temporarily impacted areas with native seed mixes and vegetation, as appropriate.
- Prevent materials, debris, and equipment from entering the water.

- Containing and properly disposing of all waste materials in accordance with federal, state, and local laws.

6.2 Mitigation for permanent impacts

To mitigate for loss of vegetation, all disturbed areas will be seeded, mulched, and/or planted with native woody species as appropriate. Removed trees will be replaced at a ratio of 3:1 and will include the planting of coniferous trees such as Douglas fir (*Pseudotsuga menziesii*), Western Hemlock (*Tsuga heterophylla*), and Western Red Cedar (*Thuja plicata*). They will be planted on 20-foot centers and provided with a 3-foot bark ring. Other native woody vegetation will be installed such as snowberry (*Symphoricarpos albus*), beaked hazelnut (*Corylus cornuta*), and red osier dogwood (*Cornus sericea*).

Removed trees will be kept on site and utilized as LWD along the shoreline as deemed suitable. This will provide improved habitat conditions in the form of cover, pools, and prey sources. The installation of LWD and native plantings will provide increased opportunity for LWD recruitment, natural shading, organic litter input, bank stabilization, and habitat for small critters.

In addition, the clearing required for the project will result in the removal of any noxious weeds. This will provide for additional area for riparian habitat plantings and restoration.

6.3 Monitoring and Maintenance

During construction, all established BMPs will be monitored for compliance with standards and efficiency and be repaired as necessary. All planted areas will be regularly monitored post construction. Plants will be inspected prior to installation to ensure quality for higher survival potential. Upon completion, planted areas will be monitored for 10 years at years 1, 3, 5, 7, and 10. Monitoring will be performed by a qualified biologist. Monitoring visits will include an assessment of any unnatural site disturbance, areas of invasive species, photographs from established monitoring points, and a survey of plant survival and aerial coverage.

6.4 Performance Standards and Contingency Plan

During the prescribed monitoring years, plants will be inspected for at least 80 percent survival during years 1 – 3. By the final year, at least 80 percent aerial coverage will be required, or as determined by the City. If monitoring indicates the planted areas are not meeting the performance standards, a contingency plan will be developed to determine the problem and restore conditions to meet the performance standards. Measures to restore conditions may include replanting, weed control, or watering.

7.0 Local Management Recommendations

There are no known local management recommendations for the immediate project vicinity. The entire Puyallup River Watershed, however, has a total maximum daily load (TMDL) and Water Quality Improvement Plan (WQIP) issued for bacteria (fecal coliform (FC)) (DOE 2011). The WQIP indicated that the mainstem Puyallup River had FC concentrations well below water quality standards during the wet season but were generally elevated during the dry season. None of the sampling stations in the Puyallup mainstem had FC concentrations above the state water quality criteria. One segment in the lower Puyallup River mainstem is still listed as a Category 5 water for bacteria, however. There are a couple segments of the mainstem Puyallup River that were previously listed as a Category 5 water for bacteria

prior to the 2012 assessment but have been downgraded to a Category 1 water during the 2012 assessment. The waterbodies that showed consistent exceedances of water quality criteria throughout the watershed were smaller tributaries to the Puyallup River, namely Clarks Creek.

The WQIP provides recommended actions to reduce FC in various tributaries within the Puyallup Watershed. These measures involve reducing the pathways that FC can enter the waterbodies such as livestock with direct access to streams, poor manure management, failing or improperly constructed septic systems, pet waste, and improperly treated sewage or other illicit discharges. Recommended actions included:

- Working with local landowners to identify FC sources and provide assistance to help remove sources into stormwater conveyances
- Conduct voluntary stewardship approaches to help remove and prevent FC sources from stormwater conveyances
- Focused stream and wetland buffer implementation
- Trace and investigate sources of FC pollution from illicit connections or discharges and remove them
- Implement Livestock Management Ordinances and related policies
- Implement pet waste reduction programs

The Puyallup River also has Category 5 listings for Mercury but does not have a TMDL for this parameter. The Puyallup River also has an old TMDL for Biological Oxygen Demand (BOD) and Ammonia (issued in 1993). Ongoing water quality studies have been performed for these parameters. Waste load allocations under this TMDL are geared towards municipal and industrial dischargers and fish hatcheries and this project does not have the potential to affect this TMDL or other impairment parameters.

The proposed project does not involve activities that could directly contribute or result in an increase in FC pollution or any other parameter that the Puyallup River is listed as a Category 5 water for. The project will help improve the City's sanitary sewer line achieve capacity for current and projected growth in the area. The upgrades would also help prevent possible line breaks that may occur from an older system. It thus may help prevent contamination to nearby waterbodies.

8.0 Conclusion

The proposed project is not anticipated to have an adverse impact on fish and wildlife habitat or any sensitive species. This project will not involve any in-water or over-water work as all activities will occur at least 100-feet landward of the OHWM. There are no sensitive terrestrial species known to occupy the area within 1,000 feet of the project. Appropriate temporary sediment and erosion control BMPs and construction measures will be implemented and maintained throughout construction to minimize/prevent in direct impacts to the Puyallup River. There will be no impact to wetlands as there are none in the project vicinity. All disturbed areas will be restored upon project completion. Habitat value will be improved with the planting of native conifers and shrubs in the unimproved disturbed areas and other areas in shoreline jurisdiction.

9.0 References

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<http://wdfw.wa.gov/mapping/phs/>
- WDFW 2014b. Washington Department of Fish and Wildlife. SalmonScape web mapping application. Accessed November 6, 2014. <http://wdfw.wa.gov/mapping/salmonscape/>

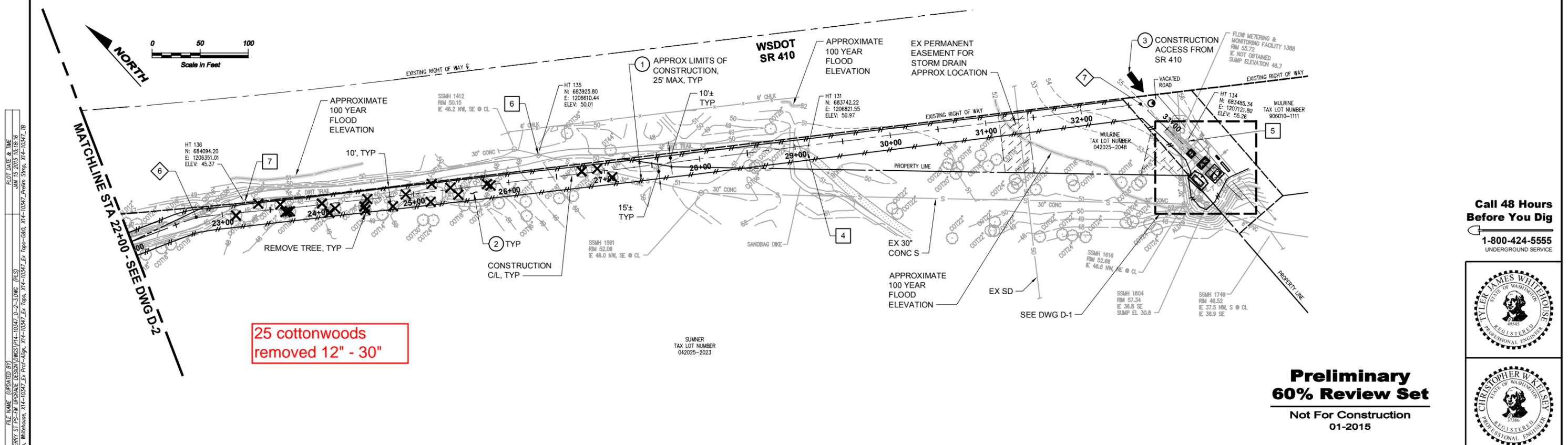
Appendix A: Site Plans

NOTES:

1. SURVEY CONTROL NUMBERS # & # SEE DRAWING G-4.
2. THE LOCATION OF EXISTING UTILITIES SHOWN ARE APPROXIMATE; TAKEN FROM UTILITY LOCATE MARKINGS AND/OR AVAILABLE RECORD INFORMATION. EXACT LOCATION AND DEPTH OF UTILITIES SHALL BE DETERMINED BY THE CONTRACTOR PRIOR TO AND DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGES CAUSED DUE TO FAILURE TO LOCATE AND PRESERVE EXISTING UTILITIES.
3. SEE SPECIFICATION SECTION 02050 FOR ADDITIONAL DEMOLITION AND SALVAGE REQUIREMENTS.
4. SEE SPECIFICATION SECTION 01014 FOR CONSTRUCTION SEQUENCING AND CONSTRAINTS.
5. PROTECT EXISTING UTILITIES, STRUCTURES, FACILITIES, TREES, ETC. UNLESS OTHERWISE INDICATED.
6. MAINTAIN ACCESS TO EXISTING PUMP STATION AND SITE FACILITIES FOR CITY STAFF AT ALL TIMES DURING CONSTRUCTION.
7. CONTRACTOR SHALL ESTABLISH LIMITS OF EX ROW AS REQUIRED TO ENSURE LIMITS OF CONSTRUCTION ARE WITHIN CITY PROPERTY LIMITS.

CONSTRUCTION NOTES:

1. CONTRACTOR SHALL ESTABLISH AND MAINTAIN LIMITS OF CONSTRUCTION BY INSTALLING SILTATION FENCE PER CITY STANDARD DETAIL SD5-9. ALL WORK SHALL BE PERFORMED WITHIN THESE LIMITS. SILTATION FENCE SHALL BE INSTALLED PRIOR TO ANY WORK WITHIN THE LIMITS AND REMOVED ONLY DURING FINAL RESTORATION OF THE AREA. THE ENTIRE AREA WITHIN THE ESTABLISHED LIMITS BY THE CONTRACTOR SHALL BE RESTORED AS NOTED ON THE CIVIL DRAWINGS. ANY WORK, EQUIPMENT ACCESS, DISRUPTION, ETC. NECESSARY OUTSIDE THE MAXIMUM NOTED LIMITS OF CONSTRUCTION SHALL BE APPROVED BY THE CITY. THE CONTRACTOR SHALL RESTORE DISTURBED AREAS OUTSIDE THE LIMITS OF CONSTRUCTION TO MATCH EXISTING CONDITIONS AND WILL NOT RECEIVE ADDITIONAL COMPENSATION FOR RESTORATION OF THESE AREAS.
2. THE AREA WITHIN THE CONSTRUCTION LIMITS BETWEEN APPROXIMATE STA 14+15 AND 27+50 SHALL BE CLEARED, GRUBBED, CUT, FILLED, GRADED AND SHAPED TO THE SURFACE PROFILE SHOWN ON THE CIVIL DRAWINGS.
3. INSTALL TEMPORARY CONSTRUCTION ACCESS PER CITY STD DETAIL M-8.1/2 STARTING AT EDGE OF ROW AND EXTENDING ONTO CITY PROPERTY.



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FILE NAME (UPDATED BY) [blank] / DATE [blank] / TIME [blank]
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No.	Revision	Date	By	App'd

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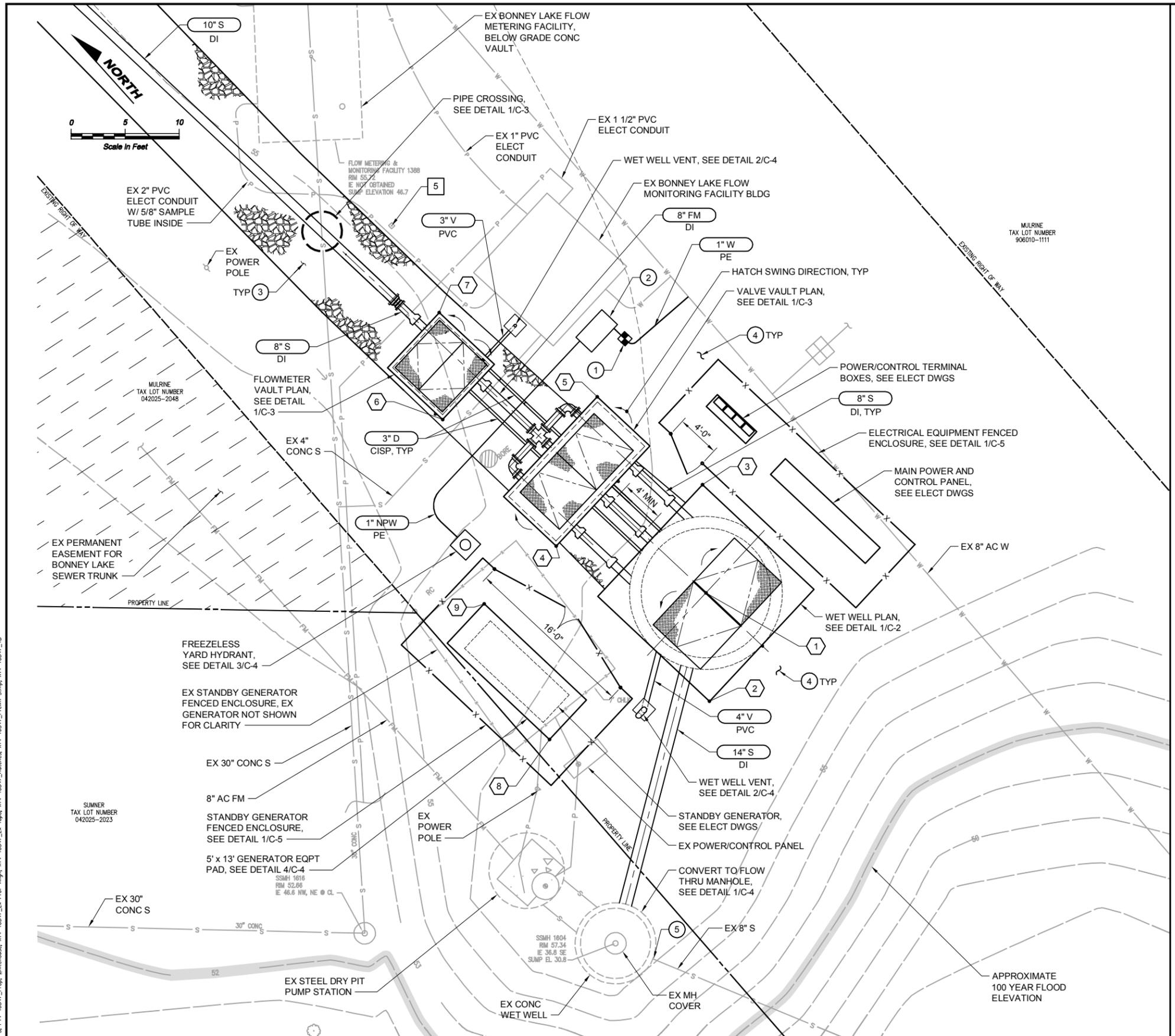
Designed: T. Whitehouse, P.E.
 Drawn: P. Simon
 Checked: A. Schuyler, P.E.
 Approved: [blank]

Scale:
 Horiz: 1" = 50'-0"
 Vert: 1" = 5'-0"
 One Inch at Full Scale
 If Not One Inch Scale Accordingly

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 Public Works Department**
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CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
**FORCE MAIN
 DEMOLITION AND CLEARING PLAN**
STA 22+00 TO 32+50±

Drawing: **D-3**
 Sheet: **X** of **X**
 File: P14-10347_D-2-3
 Date: January 2015



- NOTES:**
1. SURVEY CONTROL NUMBERS # & # SEE DRAWING G-4.
 2. EXISTING LIFT STATION FACILITIES ARE SHOWN AS THEY SHALL REMAIN IN SERVICE THROUGHOUT CONSTRUCTION. SEE DEMO DWGS FOR DECOMMISSIONING, DEMOLITION AND ABANDONING OF EXISTING LIFT STATION FACILITIES.
 3. SEE SPEC SECTION 01014 FOR CONSTRUCTION SEQUENCING AND CONSTRAINTS.
 4. PIPE TRENCH SECTION PER DETAIL 1/C-11.

- CONSTRUCTION NOTES:**
1. INSTALL WATER SERVICE CONNECTION PER CITY STANDARD DETAIL W3-1. METER BOX AND LID SHALL BE TRAFFIC BEARING. FINAL LOCATION AS DIRECTED BY CITY IN FIELD.
 2. INSTALL RPBA PER DETAIL W3-8.1. PROTECTIVE COVERING SHALL BE A HEATED, INSULATED, FLIP TOP, LOCKABLE FIBERGLASS ENCLOSURE, 120V, SINGLE PHASE, HOT BOX, OR APPROVED EQUAL. ENCLOSURE SHALL BE SIZED PER RPBA. INSTALL ON CONC PAD, SIZE AS RECOMMENDED BY ENCLOSURE MFR. PROVIDE SCH 80 PVC SLEEVES FOR PIPE THROUGH CONC PAD. FINAL LOCATION AS DIRECTED BY CITY IN FIELD.
 3. AT COMPLETION OF CONSTRUCTION, RESTORE ACCESS ROAD WITH 3 INCHES COMPACTED CSTC TO MATCH EXISTING GRADE. CUT, REMOVE AND DISPOSE OF EXISTING GRAVEL/BASE MATERIAL AS REQUIRED.
 4. AT COMPLETION OF CONSTRUCTION, ALL DISTURBED GRASS AREAS SHALL BE REMOVED TO THE SATISFACTION OF THE CITY, REPLACED WITH 4 INCHES TOPSOIL AND HYDROSEEDDED. FINISHED GRADE SHALL MATCH EXISTING.
 5. VERIFY INVERT ELEVATION OF EXISTING 8\"/>

COORDINATE TABLE			
PT #	NORTHING	EASTING	DESCRIPTION
1	683440.64	1207120.71	CENTER, WET WELL
2	683432.99	1207114.24	SW CORNER, WET WELL
3	683448.30	1207127.17	NE CORNER, WET WELL
4	683453.15	1207113.30	SW CORNER, VALVE VAULT
5	683460.86	1207125.36	NE CORNER, VALVE VAULT
6	683468.87	1207113.31	SW CORNER, FLOWMETER VAULT
7	683476.44	1207119.70	NE CORNER, FLOWMETER VAULT
8	683453.64	1207104.77	SW CORNER, GEN EQPT PAD
9	683440.27	1207100.88	NE CORNER, GEN EQPT PAD

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FILE NAME (UPDATED BY) [unreadable] JAN 07 2015 09:02:29
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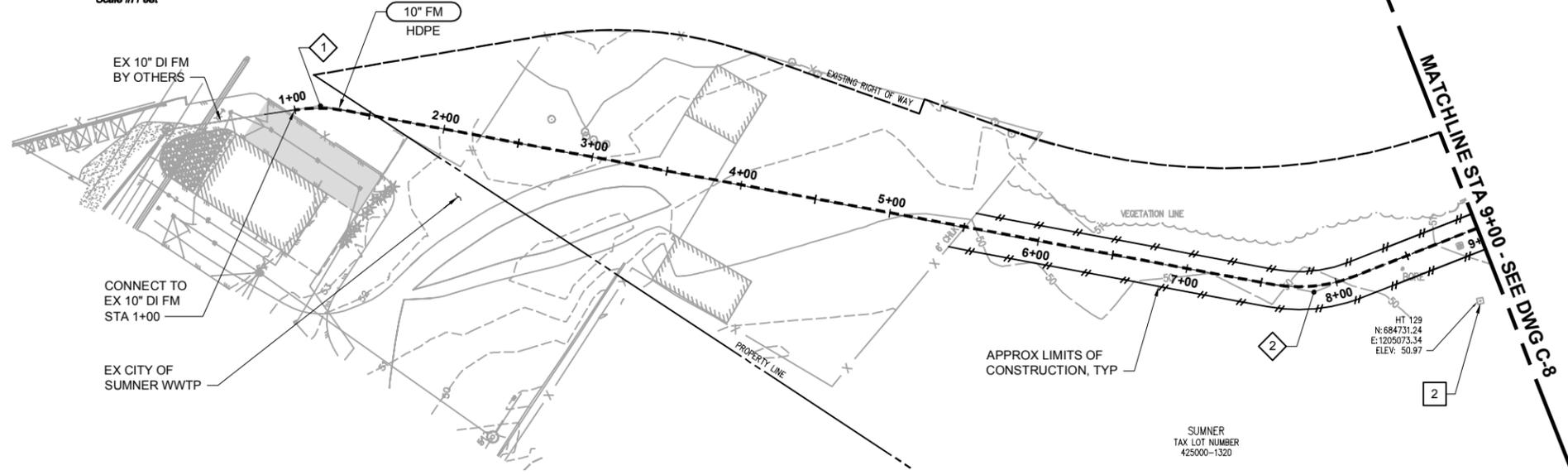
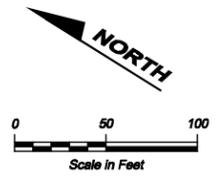
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 253.244.7165 (fax)
 www.bhcconsultants.com

Designed: T. Whitehouse, P.E.
 Scale: 1" = 5'-0"
 Drawn: P. Simon
 One Inch at Full Scale
 If Not One Inch Scale Accordingly
 Checked: A. Schuyler, P.E.
 Approved:

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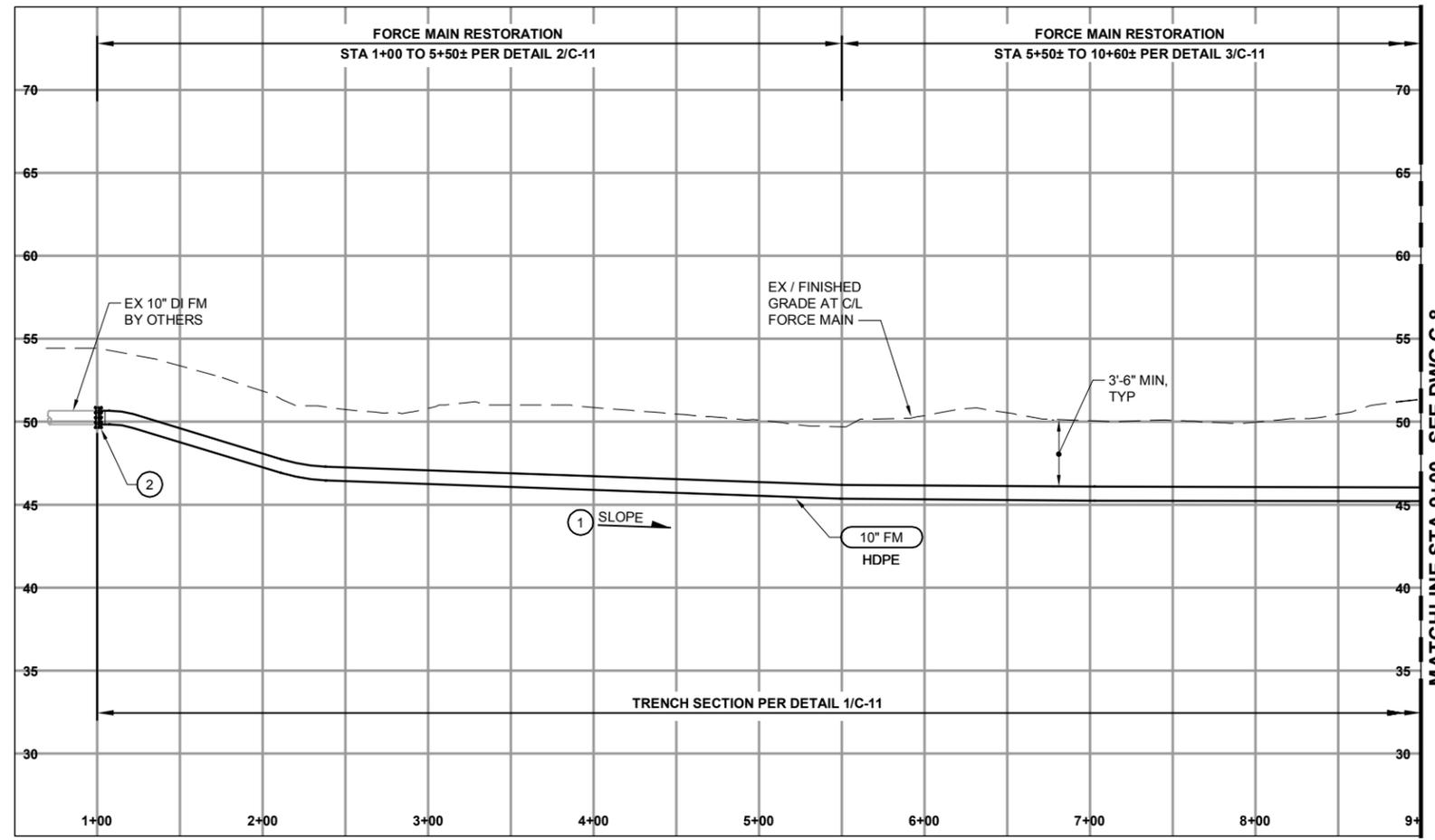
CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
PUMP STATION SITE PLAN

Drawing: **C-1**
 Sheet: **X** of **X**
 File: P14-10347_PP
 Date: January 2015



- NOTES:**
1. SURVEY CONTROL NUMBERS # & # SEE DWG G-4.
 2. LIMIT BEND RADIUS OF HDPE FORCE MAIN TO TWICE MFRS ALLOWABLE MINIMUM BEND RADIUS.

- CONSTRUCTION NOTES:**
1. INSTALL FORCE MAIN WITH GENERAL SLOPE AS SHOWN WITHOUT INTERMEDIATE SAGS OR HIGH POINTS, EXCEPT WHERE IDENTIFIED/APPROVED BY THE ENGINEER.
 2. CONNECT TO EXISTING 10" DI FM WITH HDPE FLANGE ADAPTER WITH BACKUP RING AND RFCA.



FILE NAME (UPDATED BY) [redacted] JAN 15 2015 12:26:12
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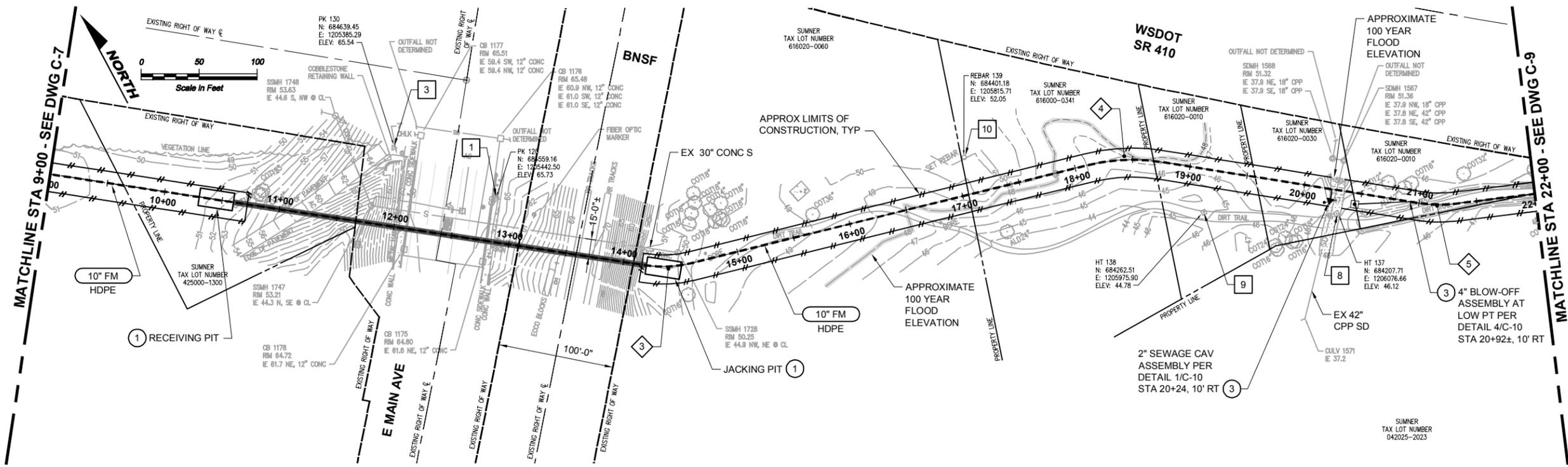
Designed: T. Whitehouse, P.E.
 Drawn: P. Simon
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 Approved:

Scale:
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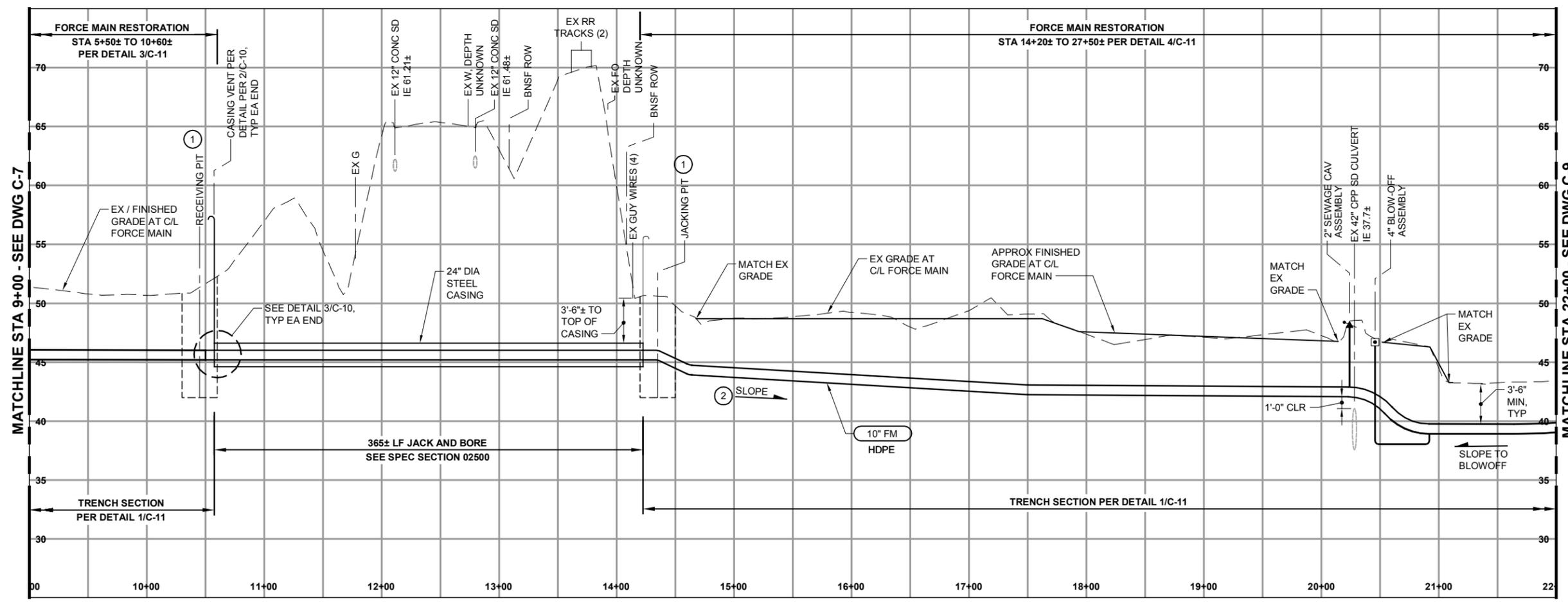
CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
FORCE MAIN PLAN AND PROFILE
STA 1+00 TO 9+00

Drawing: **C-7**
 Sheet: **X** of **X**
 File: P14-10347_C-7-8-9
 Date: January 2015



- NOTES:**
1. SURVEY CONTROL NUMBERS # & #
 2. LIMIT BEND RADIUS OF HDPE FORCE MAIN TO TWICE MFRS ALLOWABLE MINIMUM BEND RADIUS.

- CONSTRUCTION NOTES:**
- 1 GRAPHICAL PRESENTATION SHOWN FOR ILLUSTRATION PURPOSES ONLY. ACTUAL LOCATION AND SIZE TO BE DETERMINED BY CONTRACTOR.
 - 2 INSTALL FORCE MAIN WITH GENERAL SLOPE AS SHOWN WITHOUT INTERMEDIATE SAGS OR HIGH POINTS, EXCEPT WHERE IDENTIFIED/APPROVED BY THE ENGINEER.
 - 3 FINAL LOCATION OF MH COVER AS DIRECTED BY THE CITY IN THE FIELD.



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 If Not One Inch Scale Accordingly

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CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
**FORCE MAIN
PLAN AND PROFILE
STA 9+00 TO 22+00**

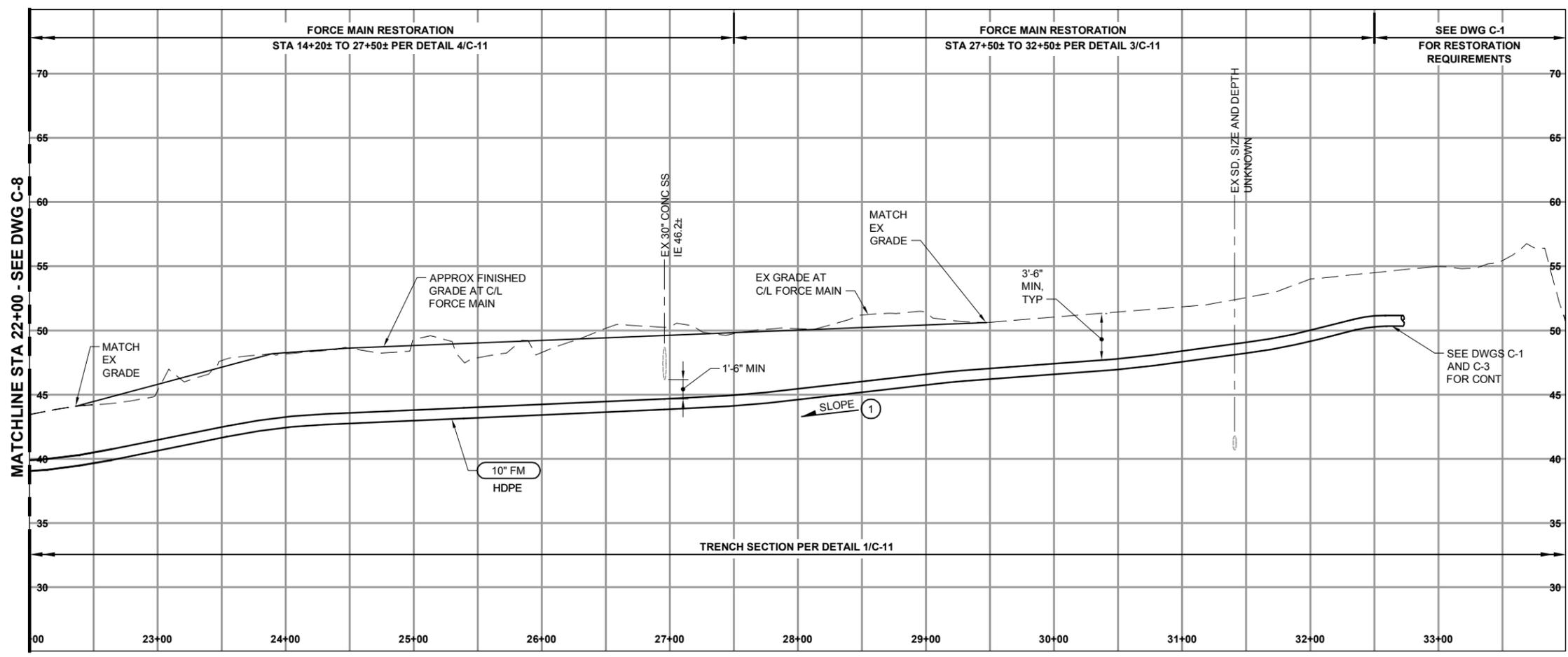
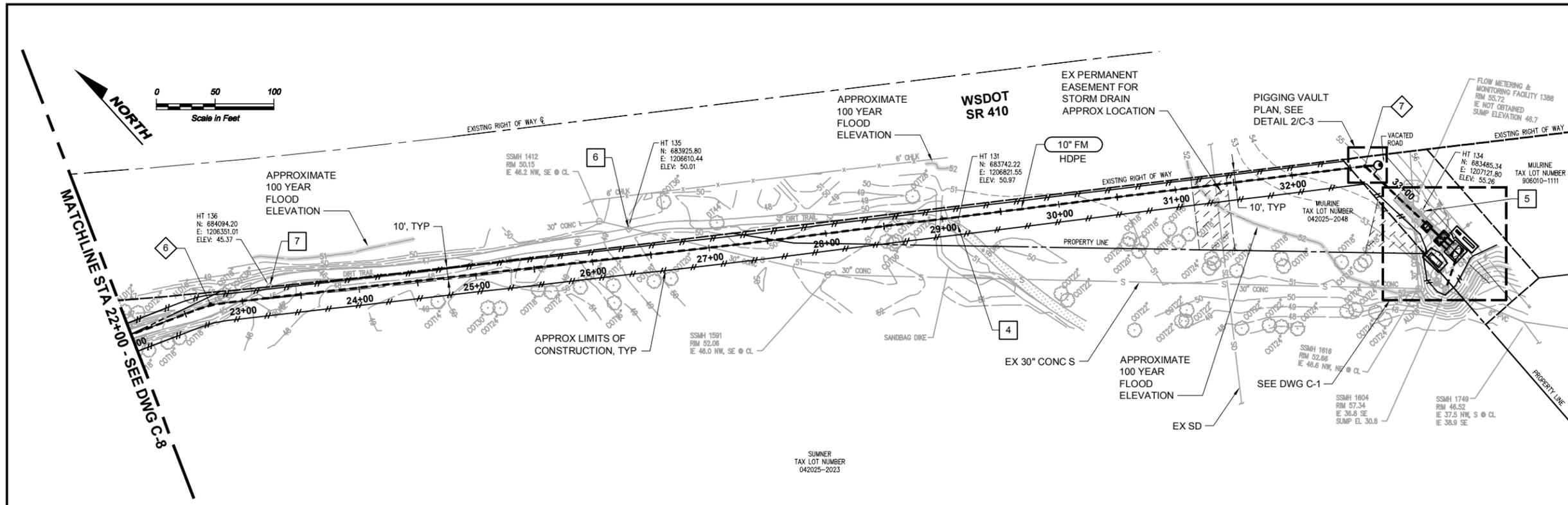
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 Sheet: **X** of **X**
 File: P14-10347_C-7-8-9
 Date: January 2015

NOTES:

1. SURVEY CONTROL NUMBERS # & # SEE DWG G-4.
2. LIMIT BEND RADIUS OF HDPE FORCE MAIN TO TWICE MFRS ALLOWABLE MINIMUM BEND RADIUS.

CONSTRUCTION NOTES:

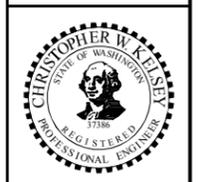
1. INSTALL FORCE MAIN WITH GENERAL SLOPE AS SHOWN WITHOUT INTERMEDIATE SAGS OR HIGH POINTS, EXCEPT WHERE IDENTIFIED/APPROVED BY THE ENGINEER.



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CHERRY STREET PUMP STATION #7 AND FORCE MAIN UPGRADE
FORCE MAIN
PLAN AND PROFILE
STA 22+00 TO 32+50±

Drawing: **C-9**
 Sheet: **X** of **X**
 File: P14-10347_C-7-8-9
 Date: January 2015