

Utilities Committee Meeting Agenda September 15, 2020, 5:00 p.m.

Pursuant to the Governor's "Stay Home - Stay Safe" Order, the City is prohibited from conducting meetings unless the meeting is NOT conducted in-person and instead provides options for the public to attend through telephone access, internet or other means of remote access, and also provides the ability for persons attending the meeting (not in-person) to hear each other at the same time. Therefore;

Remote access only

Link:

<https://us02web.zoom.us/j/87423604605?pwd=dFo0SHMvTk1mSXBoYXl4eXZJbkRnQT0>

Zoom Meeting ID: 874 2360 4605

Passcode: 903435

- Sanitary Sewer CFC's - Update
- Water System Plan 2020/2030 - Update
- Stormwater Comprehensive Plan (2021) - Update
- General Sewer Plan Amendment 2020 - Update
- Cross Connection Control & FOG Programs - Discussion
- McCormick Sewer Pump Station #1 Repairs - Update
 - Groundwater Intrusion
 - Connection Point Movement
- 580 Zone Water Campus - Update:
 - Well #12
 - Well #11
 - 580 Tank
 - Splash Pad
- Utility Department Work Plan - Update:
 - Foster Pilot Project & Water Rights 2019/2020
 - Well #13 - Proposed Site Plan
 - Well #13 - Maple Avenue (Water Mains, PRV's & Well #6)
 - McCormick Sewer Pump Station #2
- Next Meeting: October 20, 2020

Future Agenda Items:

- 580 Transmission Main
- Marina Sewer Pump Station 80% Design
- Stormwater Program Status - Presentation
- Option to Levy Excise Taxes on W/S - Discussion
- SKWRF Nutrient Cap - Update

- McCormick Communities - Global Agreement
- 2019-2024 NPDES Permit Draft Comments - Update
- Bay Street - Street Lighting & Marquee - Update
- Touch-Read Water Meters - Update
- Water System Fluoridation - Update
- Fire Hydrant Operation and Maintenance Program - Update
- Valve Operation and Maintenance Program - Update
- Sanitary Side Sewer Policy - Discussion

ORDINANCE NO. _____

**AN ORDINANCE OF THE CITY OF PORT ORCHARD,
WASHINGTON, AMENDING PORT ORCHARD MUNICIPAL
CODE, CHAPTERS 13.04.025 “FEE SCHEDULE” AND
13.04.065 “CPI ADJUSTMENT.”**

WHEREAS, the Port Orchard City Council initiated a Sewer Capital Facilities Charge (CFC) Update analysis by Katy Isaksen & Associates, Inc. on March 23, 2020 and the findings were presented to both the City Council and the Public on July 21, 2020; and

WHEREAS, the Port Orchard City Council has determined that apart from any consideration of rate increases, certain Sewer CFC’s shall be modified; and

WHEREAS, the Port Orchard City Council has also determined that apart from any consideration of rate increases, and to reflect annual changes within the All Urban Consumers Price Index (CPI) for the Seattle – Tacoma – Bremerton area, the Water and Sewer CPI shall be modified, unless CFC’s have been adjusted by the City Council during the previous six month period; and

WHEREAS, the Port Orchard City Council has not modified CFC’s within the past six months; and

WHEREAS, a duly noticed public hearing before the Port Orchard City Council on the proposed Amendments was held on September 22, 2020; now, therefore,

**THE CITY COUNCIL OF THE CITY OF PORT ORCHARD, WASHINGTON,
DO ORDAIN AS FOLLOWS:**

SECTION 1. Section 13.04.025 of the Port Orchard Municipal Code is hereby amended to read as follows:

13.04.025 Fee Schedule.

(1) The fees set forth below are referenced in POMC 13.04.030, 13.04.033, 13.04.035 and 13.04.040.

Water Sewer Connection Fees	
Water Capital Facility Charge	POMC 13.04.030(1)(a)
Residential – Per ERU	\$5,945

Water Sewer Connection Fees

Water Capital Facility Charge Nonresidential – Based on Meter Size	POMC 13.04.030(1)(b)
3/4"	\$5,945
1"	\$9,928
1-1/2"	\$19,797
2"	\$31,687
3"	\$59,450
4"	\$99,103
Irrigation	No connection fee

Water Inspection Fee	POMC 13.04.030(7) and 13.04.033(3)
Per Meter	\$111.37

Connection Fees/Labor Installation Fees	POMC 13.04.033(1)
3/4"	\$1,113.73
1"	\$1,336.49
1-1/2"	\$1,670.61
2"	\$2,227.48
Larger	Estimated case by case

Water in Lieu of Assessment	POMC 13.04.035
Per Front Foot	\$111.37

Sewer Wastewater Treatment Facility Fee	POMC 13.04.040(2)
Per ERU	\$3,597.37
McCormick Land Co. Div. 1-10 Per ERU	\$881.25

Water Sewer Connection Fees	
Sewer General-Facility Fee Capital Facility Charge	POMC 13.04.040(2)
Per ERU	\$515 \$78525

Sewer Inspection Fee	POMC 13.04.040(8)
Per Lateral Connection	\$111.37

(2) The fees set forth below are referenced in POMC 13.04.050, 13.04.055, and 13.04.120.

Billing and Miscellaneous Charges

Billing Charges	POMC 13.04.050
Water/Sewer Delinquency Notice at Location	\$10.00
Water Shutoff Fee	\$40.00
Meter Turn-Off Violations (as Determined by City)	\$250.00

Damaging the Utility System	POMC 13.04.120
Violation Fine (as Determined by the City)	\$250.00

Miscellaneous Charges	POMC 13.04.055
After Hours Turn-On/Shutoff	\$75.00
Notification to Tenant of Water Shutoff Per Hold Harmless Agreement	\$10.00
Service Fee for Estimated or Final Billing Closing Requests	\$20.00

(3) The fees set forth below are referenced in POMC 13.04.031 and 13.04.045.

Water Plan Review Fees

Review	POMC 13.04.031
Main Extension Review Per lineal foot of main	\$0.30
Pump Station Review	\$300.00

Water Plan Review Fees	
Significant Facility Review*	Consultant fee** plus 10%

Sewer Plan Review Fees

Review	POMC 13.04.045
Main Extension Review Per lineal foot of main	\$0.30
Pump Station Review	\$300.00
Significant Facility Review*	Consultant fee** plus 10%

Water Inspection Fees

Inspection	POMC 13.04.031
Main Extension Inspection Per lineal foot of main	\$1.25
Pump Station Inspection	\$600.00
Significant Facility Inspection*	Consultant fee** plus 10%

Sewer Inspection Fees

Inspection	POMC 13.04.045
Main Extension Inspection Per lineal foot of main	\$1.50
Pump Station Inspection	\$600.00
Significant Facility Inspection*	Consultant fee** plus 10%

* Significant facilities include improvements such as sewer lift station construction or enlargement, force main construction, water system storage tanks, well construction, and water treatment facilities.

** This review and inspection shall be performed by the city's water or sewer consultant under contract with the city for services of this type.

SECTION 2. Section 13.04.065 of the Port Orchard Municipal Code is hereby amended to read as follows:

13.04.065 CPI Adjustment.

Repealed by Ordinance 020-15

Commencing October 1, 2021, and on October 1st of each successive year thereafter, unless otherwise adjusted by the City Council during the previous six month period, all capital facility charges, connection fees, and fees in lieu of assessment set forth in this chapter, but excluding water and sewer rates, shall be automatically adjusted based upon the All Urban Consumers Price Index for the Seattle – Tacoma – Bremerton area as published by the U.S. Department of Labor, Bureau of Labor Statistics, for the prior June; but in no event shall the adjustment be less than zero.

SECTION 3. If any section, sentence, clause or phrase of this ordinance should be held to be invalid or unconstitutional by a court of competent jurisdiction, such invalidity or unconstitutionality shall not affect the validity of constitutionality of any other section, sentence, clause or phrase of this ordinance.

SECTION 4. This ordinance shall be in full force and effect five (5) days after posting and publication as required by law. A summary of this Ordinance may be published in lieu of the entire ordinance, as authorized by State Law.

PASSED by the City Council of the City of Port Orchard, APPROVED by the Mayor and attested by the Clerk in authentication of such passage this 22nd day of September, 2020.

Robert Putaansuu, Mayor

ATTEST:

Brandy Rinearson, MMC, City Clerk

APPROVED AS TO FORM:

Charlotte A. Archer, City Attorney



CITY OF PORT ORCHARD
Public Works Department
216 Prospect Street, Port Orchard, WA 98366
Voice: (360) 876-4991 • Fax: (360) 876-4980
www.Cityofportorchard.us

WATER SYSTEM PLAN

2019 UPDATE

Chapter 1	Description of Water System
Chapter 2	Planning Data and Water Demand Forecasting
Chapter 3	System Analysis
Chapter 4	Water Resource Analysis
Chapter 5	Source Water Protection
Chapter 6	Operation and Maintenance Program
Chapter 7	Distribution Facilities Design and Construction
Chapter 8	Capital Improvements Plan
Chapter 9	Financial Planning

City of Port Orchard
Request for Qualifications

The City of Port Orchard solicits statements of qualification from A&E consulting firms with expertise in the preparation of the 2021 Stormwater and Watersheds Comprehensive Plan. Scope: utilizing the City of Port Orchard's existing Stormwater Program data, the selected consultant shall develop, prepare and submit for 'Ecology' approval, the City's inaugural Storm Drainage Comprehensive Plan. Deadline for Submittals: 2:00 p.m. on **October 23, 2020**. Contact: Mark R. Dorsey, P.E., (360) 876-4991 or publicworks@cityofportorchard.us. For full information on the Request for Qualifications, please visit our website at: <https://www.cityofportorchard.us/bids-and-proposals/>. Consultant agrees to comply with the provisions of Title VI. Dates of Publication of RFQ: **October 2, 2020 and October 9, 2020**.

**CITY OF PORT ORCHARD PUBLIC WORKS DEPARTMENT
NOTICE TO CONSULTANTS
PREPARATION OF THE 2021 STORMWATER AND WATERSHEDS COMPREHENSIVE PLAN**

The City of Port Orchard Public Works Department solicits interest from consulting firms with expertise in the development and preparation of the 2021 Stormwater and Watersheds Comprehensive Plan. The Contract Agreement will be for FY 2020-2021, with the option for the City of Port Orchard to extend for additional time if necessary. Consultants will be considered for the Project specific below. The City of Port Orchard reserves the right to amend terms of this "Request for Qualifications" (RFQ) to circulate various addenda, or to withdraw the RFQ at any time, regardless of how much time and effort consultants have spent on their responses. The City also reserves the right to cancel this project and any associated contracts, solely at the City's discretion.

Project Description

The Work to be performed by the CONSULTANT shall consist of the development and preparation of the City of Port Orchard's inaugural Stormwater and Watersheds Comprehensive Plan. CONSULTANT will begin by reviewing and utilizing all existing Stormwater and Watersheds Program Data and available regional data relevant to the plan. The Work to be performed may also include additional surveying and mapping as necessary, geotechnical and land use data gathering, GIS data review/analysis and coordination with the Department of Ecology's NPDES Permit Coordinator as needed. Preparation of a storm drainage runoff model is also desired. This includes review of City owned stormwater conveyances, appurtenances and BMP's for condition and deficiencies. Review of City owned culverts for inventory/evaluation/condition assessment for inclusion in the plan is also desired. Based upon findings of this review, CONSULTANT shall develop a Stormwater and Watersheds Comprehensive Plan with the following components:

1. Introduction
2. Stormwater and Watersheds Program Description
3. Stormwater and Watersheds Infrastructure Description
4. Utility Operational Structure
5. Level of Service
6. Asset Management
7. Stormwater and Watersheds Financial Plan
8. Stormwater Management Program Plan Elements
9. Operation and Maintenance
10. Water Quality and Habitat Conditions
11. Stormwater Capital Improvement Plan
12. Regional Facilities Plan
13. Stormwater Capital Facilities Charges
14. Implementation Plan
15. References
16. Appendices

In addition, the CONSULTANT shall identify improvement and enhancement opportunities within City jurisdiction for surface and stormwater assets and develop a ranked list with cost estimates based upon benefit and priority. The CONSULTANT shall submit and obtain Plan approval from the Washington State Department of Ecology.

Funding Source

Storm Drainage Utility

Evaluation Criteria

Submittals will be evaluated and ranked based on the following criteria:

- 1) Qualification of Proposed Project Manager (15 points)
- 2) Qualifications/Expertise of Firm and/or Team (20 points)
- 3) Ability to meet Schedule (10 points)
- 4) Approach to the Project (25 points)
- 5) Familiarity with Agency (City, Tribal, Ecology & EPA) Requirements (10 points)
- 6) Past Performance/References (10 points)
- 7) Storm Drainage Modeling Expertise (10 points)

Submittal

Submittals should include the following information: Firm name, phone and fax numbers; Name of Principal-in-Charge and Project Manager; and Number of employees in each firm proposed to project. Proposals shall be limited to 10 pages, double sided excluding resumes, cover sheet and cover letter.

Please submit THREE copies of your proposal to: City of Port Orchard, *RE: Stormwater and Watersheds Comprehensive Plan, 216 Prospect Street, Port Orchard, WA 98366, and Mark R. Dorsey, P.E., Public Works Director/City Engineer* no later than 2:00 p.m. on **October 23, 2020**. Submittals will not be accepted after that time and date. Any questions regarding this project should be directed to Mark R. Dorsey, P.E., (360) 876-4991 or publicworks@cityofportorchard.us.

If you would like to schedule a meeting to review the Stormwater Program data, please contact Zack Holt at 360.621.5239 or email zholt@cityofportorchard.us.

To view the City's terms and conditions, please refer to the draft contract for this project on the City's website at <https://www.cityofportorchard.us/bids-and-proposals/>.

Americans with Disabilities Act (ADA) Information

The City of Port Orchard in accordance with Section 504 of the Rehabilitation Act (Section 504) and the Americans with Disabilities Act (ADA), commits to nondiscrimination on the basis of disability, in all of its programs and activities. This material can be made available in an alternate format by emailing the Public Works Department at publicworks@cityofportorchard.us or by calling (360) 876-4991.

Title VI Statement

The City of Port Orchard in accordance with Title VI of the Civil Rights Act of 1964, 78 Stat. 252, 42 U.S.C. 2000d to 2000d-4 and Title 49, Code of Federal Regulations, Department of Transportation, subtitle A, Office

of the Secretary, Part 21, nondiscrimination in federally assisted programs of the Department of Transportation issued pursuant to such Act, hereby notifies all bidders that it will affirmatively ensure that in any contract entered into pursuant to this advertisement, disadvantaged business enterprises as defined at 49 CFR Part 26 will be afforded full opportunity to submit bids in response to this invitation and will not be discriminated against on the grounds of race, color, national origin, or sex in consideration for an award.”

Dates of Publication:	Kitsap Sun:	October 2, 2020 and October 9, 2020 editions
	Daily Journal of Commerce:	October 2, 2020 and October 9, 2020 editions
	City of Port Orchard Website	October 2, 2020



CITY OF PORT ORCHARD

Public Works

216 Prospect Street, Port Orchard, WA 98366
Phone: (360) 876-4991 • Fax: (360) 876-4980
www.cityofportorchard.us

General Sewer Plan Amendment

May, 2020

FORWARD

Recent land development activity in the area identified as Basin 7 Subarea of the City of Port Orchard's Sewer Collection System has created the need to identify additional Capital Improvement Projects in order to provide adequate sewer collection service. The Public Works Department contracted with BHC Consultants for modeling of the current system and evaluation of projects required to provide the necessary infrastructure. Additionally, the City contracted with Katy Isaksen and Associates to provide a financial analysis of the Improvements.

The following is amended material for the Executive Summary, Section 7 – Conveyance System Analysis, and Section 8 – Collection Facility Improvements of the General Sewer Plan Update of June 2016.

CONTENTS

Executive Summary	pages ES-1 thru ES-6
Section 7	pages 7-1 thru 7-32
Section 8	pages 8-1 thru 8-20
SEPA Checklist	pages 1 thru 16

Executive Summary

ES.1 Introduction (Chapter 1)

The City of Port Orchard's (City) General Sewer Plan Update (Plan) provides a summary of the City's current sewage capacities and an analysis of the impact of projected growth on the City's sewage collection and conveyance system, and proposes a Capital Improvement Program to alleviate system deficiencies. It also documents the utility's policies, operation and maintenance practices, and financial condition.

The City is located in Kitsap County and is bounded to the north by Sinclair Inlet. The location is shown on Figure 1-1. The surrounding area is a combination of rural and suburban lands in unincorporated Kitsap County.

The City was incorporated in 1890 as the Town of Sidney, and was renamed in 1903 as the City of Port Orchard. The City is primarily residential with some commercial areas and industrial activity. The current population within the existing City limits was estimated by the Washington State Office of Financial Management to be 13,150 in 2014. As of 2015, approximately 11,550 are within the City's sewer service area. Residents outside of the City's service area are served by the West Sound Utility District (WSUD) or by individual septic tanks.

The City owns, operates, and maintains existing wastewater collection and conveyance facilities that provide sewer service to the City's current service area of approximately 2,100 acres. The collection system consists of gravity sewers, pump stations, force mains, Septic Tank Effluent Pump (STEP) systems in McCormick Woods, and grinder pump systems that convey wastewater to the South Kitsap Water Reclamation Facility (SKWRF). The SKWRF is owned jointly by the City and WSUD, and operated and maintained by WSUD.

Over the next twenty years the population within the Urban Growth Area (UGA) in the City's sewer service area is expected to grow to over 24,000 people. The City's sewer service area is expected to grow to approximately 5,700 acres. This Plan evaluates future facilities required to accommodate both existing and future wastewater collection needs.

This Plan complies with the Washington State Department of Ecology (Ecology) regulations for general sewer plan (Washington Administrative Code [WAC] 173-240-050) as shown in Table E-1.

**TECHNICAL SPECIFICATIONS
FOR SPECIAL PROVISIONS
FOR THE
CITY OF PORT ORCHARD
WELL 11 MODIFICATION & TESTING, AND DECOMMISSIONING OF WELLS 1 & 2
THE MODIFICATION AND TESTING OF
CITY OF PORT ORCHARD WELL 11 AND
DECOMMISSIONING OF CITY OF PORT ORCHARD (MCCORMICK) WELLS 1 AND 2**

CITY OF PORT ORCHARD

July 2020

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1. General

The City of Port Orchard, herein referred to as the Owner, requires the modification of their 12-inch diameter Well No. 11 at the McCormick Woods Well Field west of the City by cutting and removing 520 feet of 12-inch diameter casing and leaving a 16-inch pumping chamber. The 16-inch by 12-inch annulus will then be grouted with cement to assure there is no transfer of material through that annulus. The modified well will then be step tested at up to 1,500 gallons per minute (gpm) (if the well allows). The step test will be followed by a constant-rate test for 24 hours at a rate to be determined by the step test results. The contract will also include the proper decommissioning of two older wells on the property per WAC 173-160

Commented [A1]: #1 and #2....correct? Leaving #3 as a monitoring well/emergency source?

2. Scope of Work

The intent of this contract is to modify the existing 12-inch diameter well by cutting the casing at a depth of 520 feet and removing the 12-inch diameter casing to create a 16-inch diameter pumping chamber. The 12-inch by 16-inch annulus will then be grouted with cement grout to preclude the entry of fine material through the annulus when the modified well is pumped. After the cut is made, the 12-inch diameter casing removed, and the annulus is grouted, the contractor will clean the bottom of the well using a sand-pump bailer. The contractor will then install a test pump capable of producing up to 1,500 gpm from a pumping water level 500 feet below land surface. A step-rate test will then be accomplished at rates ranging from the minimum the pump will convey up to 1,500 gpm (or the maximum rate for the well). Following a period of recovery after the step-rate test, the well will then be pumped for 24 hours at a constant rate defined by the hydrogeologist. The test includes a two-day recovery period that must be monitored using a transducer/data-logger as well as occasional manual measurements. This means the pump cannot be removed until the third day after the pump is shut down.

A video inspection was conducted on July 9, 2020 and found no obstructions that would complicate the execution of the work. The video also showed an accumulation of approximately 30 feet of material in the bottom of the well screen which will need to be cleaned out prior to testing. Depending on the nature of this material, some surge and bail development may be required to clear the lower section of the well screen prior to testing. The Contractor is encouraged to view this video before starting the work.

WELL 11 MODIFICATION & TESTING, AND DECOMMISSIONING OF WELLS 1 & 2
Well 11 Modification and Testing

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September 9, 2020
September 9, 2020
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August 25, 2020
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Well modification and testing shall be performed in accordance with applicable requirements of Washington Administrative Code (WAC) 173-160 and the requirements of these specifications. Where the requirements of these specifications are more stringent, the requirements of the specifications shall prevail, provided that nothing in these specifications shall be construed to require work in violation of the WAC.

The scope of work for decommissioning the two older wells on the site (McCormick Well No. #1 and Well No. #2) are simply and to properly decommission the 12-inch diameter well (Well #11) as required by WAC 173-160-381. McCormick Well No. 1 is completed with 10-inch diameter pipe-size screens of 15- to 40-slot size set from 229-feet to 243-feet and from 260-feet to 281-feet, respectively. There is 2-foot tailpipe below the screens. Above the screens are a short 10-inch diameter riser pipe with both neoprene and lead packers. The well has a proper bentonite surface seal set to 20 feet. The static water level is approximately 125-feet below land surface and the production test at the time of construction was 175 gpm with 73-feet of drawdown after 4-hours. The well was drilled by Nicholson Drilling of Port Orchard between February and May of 1984.

The second well to be decommissioned, McCormick Well No. 2, is a 12-inch diameter 215-foot deep well completed with 60-slot 6-inch diameter pipe-size screen set from 168-feet to 210-210-feet. Above the screen is a 10-foot 6-inch diameter riser topped with a 12- by 6-inch diameter reducer/lead packer threaded to the riser. The bentonite/cement surface seal is placed to 20-feet. The static water level in this well is approximately 125-feet and the well was tested for 24 hours at 397 gpm with 30 feet of drawdown.

Commented [A2]: Mention well #3?

3. Equipment

- 3.1 Drilling Machine. The work can be accomplished by cable-tool or rotary methods provided the rig is suitable for the work specified. All appurtenant equipment including, but not limited to, bailers, and grouting equipment are to be considered as part of the rig, available to the project as needed, and delivered to the site as a function of job mobilization. It is presumed that the Contractor will use the same drilling equipment to accomplish the decommissioning of the two older wells on the property. However, the use of other equipment is left to the discretion of the Contractor provided that equipment is suitable to the task and agreeable to the Owner and the hydrogeologist.
- 3.2 Test Pump. A test pump capable of producing up to 1,500 gpm from a 16-inch diameter casing with a pumping water level 500 feet below land surface will be required for this work. Either a submersible pump driven with a contractor-provided generator or a top-drive turbine pump driven by a contractor-provided drive engine may be used. The pump must be equipped with a direct reading and totalizing flow meter and a device to control/modify the discharge rate (gate valve preferred). The pump must provide a discharge line to escort the pumped water away from the wellhead. The discharge line

~~WELL 11 MODIFICATION & TESTING, AND DECOMMISSIONING OF WELLS 1 & 2~~ Well 11 Modification and Testing

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must directly connect onto a City pipe (believed to be 8 inches in diameter) at a point no more than 100 feet from the well. The City will assist with the connection. All ancillary equipment is to be provided by the contractor as part of the pump provision cost.

Commented [A3]: Assist or direct? Assist seems more open ended.

Commented [A4R3]: Another way to say this might be, "...provide limited assistance..."

MEASUREMENT AND PAYMENT

Item 1 Mobilization and Demobilization

This item shall include the mobilization and demobilization of all labor, equipment, and materials to and from the well sites. Mobilization shall include all fees incidental to the Contractor's work on the wells. Mobilization shall include setup of all equipment. Mobilization shall be paid under bid Item 1.

The Contractor shall be responsible for proper maintenance of the sites and periodic removal of all wastes. On completion, the Contractor shall remove all equipment, extra materials, and wastes, and restore the sites to its original condition as directed by the Owner.

The Contractor shall be paid 70% of this item when equipment set up is completed and 30% when work at the sites (including cleanup and restoration) is complete.

Item 2 Authorized Hourly Work

Authorized hourly work shall cover the furnishing of all equipment, labor, tools, and miscellaneous material necessary to perform the well modification work and the performance of other similar Contractor activities not covered under other items and as approved by the Owner.

No payment will be made to the Contractor for the hourly work being performed when any equipment is being repaired or cleaned, when the equipment is not in good working condition, or when a suitable crew is not on duty at the site. Basis of payment for this work shall be at the hourly rate bid. Records for this work will be maintained by the Contractor and provided to the Owner's representative on a daily basis. The Owner's records shall be determinative for any disputes between the parties regarding this matter.

Item 3 Extra Materials

The Contractor shall be paid the invoice amount, plus 20% handling for grout used in sealing the annulus and other extra materials required and authorized by the Owner and

WELL 11 MODIFICATION & TESTING, AND DECOMMISSIONING OF WELLS 1 & 2
Well 11 Modification and Testing

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not covered by other items in the Proposal.

Item 4 Provide and Install Test Pump and Operate for Four (4) Hours

The contractor shall be paid for provision, installation and removal of the test pumping equipment. This includes the first four (4) hours of operation. This item also includes all ancillary equipment to measure and control the discharge and to escort/control the discharge water to a point acceptable to the Owner. This is to be paid at the price bid. This item can only be applied once. Any additional removal and installation shall be paid under Item 2 provided the reason is related to causes other than equipment failure in which case no payment is owed.

Item 5 Operate Test Pump

The payment for the operation of the pump will be made per hour of operation after the initial four hours.

Item 6 Decommission McCormick Well No. 1

The Contractor shall decommission the 12-inch diameter, 283-foot deep Well No. 1 in a manner compliant with WAC 173-160-381. The methods applied and equipment used is at the discretion of the Contractor provided the regulatory requirements of the decommissioning are met.

The Contractor shall be paid the lump sum bid for this service.

Item 7 Decommission McCormick Well No. 2

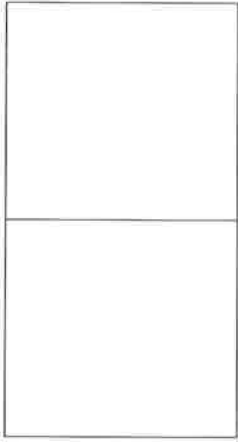
The Contractor shall decommission the 12-inch diameter, 215-foot deep Well No. 2 in a manner compliant with WAC 173-160-381. The methods applied and equipment used is at the discretion of the Contractor provided the regulatory requirements of the decommissioning are met.

The Contractor shall be paid the lump sum bid for this service.





OWNER:
City of Port Orchard
216 Prospect Street
Port Orchard, WA 98366



VICINITY MAP:  NOT TO SCALE

GENERAL NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO BID SUBMISSION. ANY DISCREPANCY BETWEEN SITE CONDITIONS AND CONTRACT DOCUMENTS AFFECTING THE COST OF THE PROJECT SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND OBTAINING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INCLUDING RIGHT-OF-WAY, AND WASHINGTON STATE MODIFICATIONS TO THE MUTCD.
4. CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL TRAFFIC CONTROL MEASURES AS PRESERVE AND PROTECT EXISTING IMPROVEMENTS TO REMAIN. REPAIR OR REPLACE ALL HARDSCAPE AND SOFTSCAPE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING AND REPLACING ALL DAMAGED HARDSCAPE AND SOFTSCAPE.
5. CONTRACTOR SHALL COORDINATE DIRECTLY WITH CERTIFIED ARBORIST TO SCHEDULE WORK IF REQUIRED.
6. OWNER WILL FURNISH COMPACTION & MATERIAL TESTING. IF CONTRACTOR FAILS TO COMPLY WITH TESTING REQUIREMENTS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL TESTING UNTIL COMPACTION AND MATERIALS MEET SPECIFICATION.

PROJECT:

McCormick Village Park
Splash Pad Retrofit
3201 SW Old Clifton Road
Port Orchard, WA 98367

LAND EXPRESSIONS, LLC
5615 E DAY MT. SPOKANE RD
MEAD, WA 99021
PROJECT MANAGER: CLAYTON VARICK, R.L.A.
PHONE: 509-466-6683
FAX: 509-466-7694

SUBCONSULTANTS:

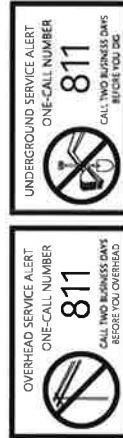
COMPANY: COFFMAN ENGINEERS
1000 1ST AVENUE, SUITE 100
CITY & STATE: SPOKANE, WA 99201
PROJECT MANAGER: CHAD HEMBLIGH
PHONE: 509-338-7994

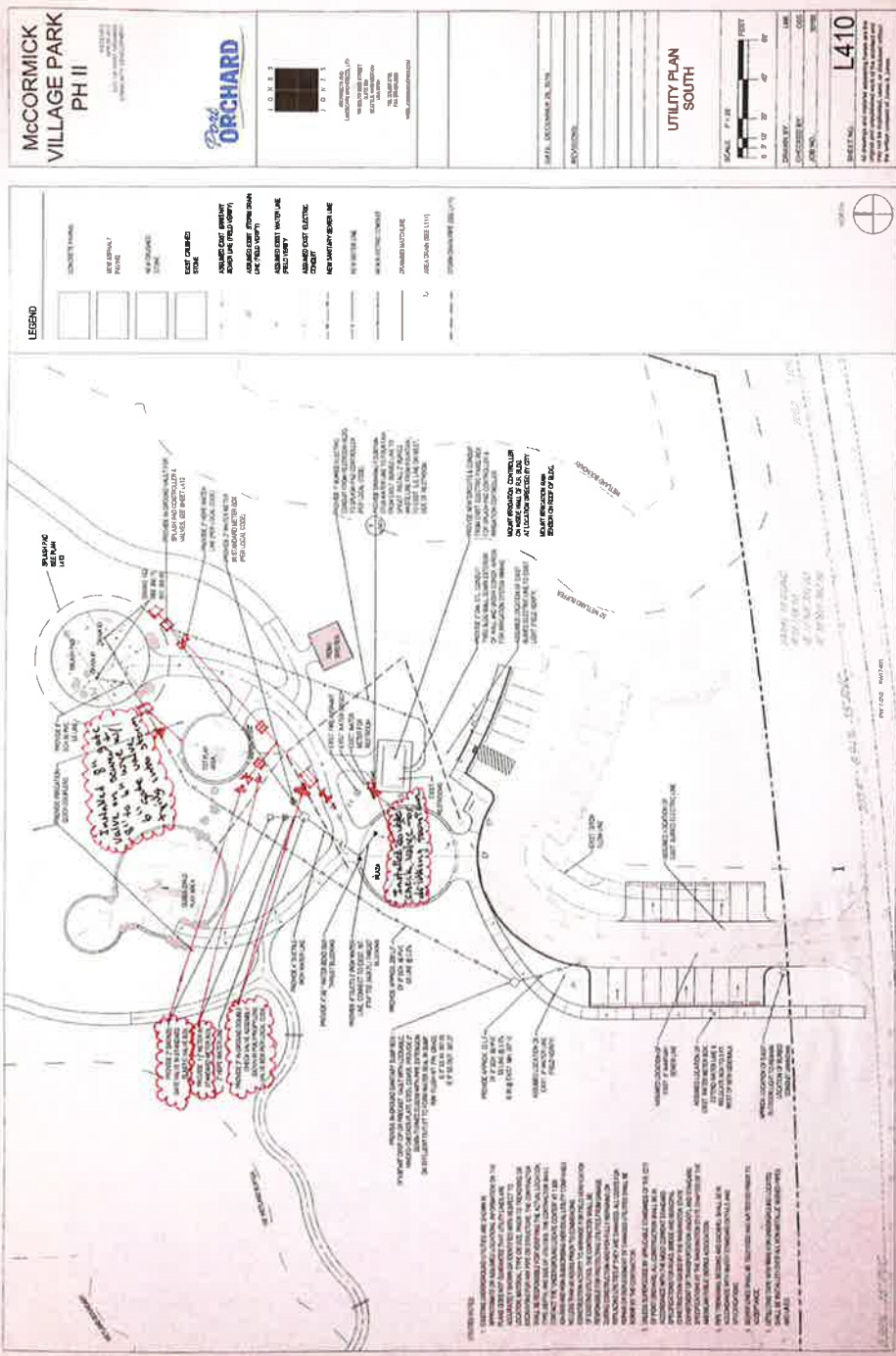
COMPANY: SUMMIT ENGINEERING
1000 1ST AVENUE, SUITE 100
CITY & STATE: SPOKANE, WA 99201
PROJECT MANAGER: DON HESLIN
PHONE: 509-338-7994

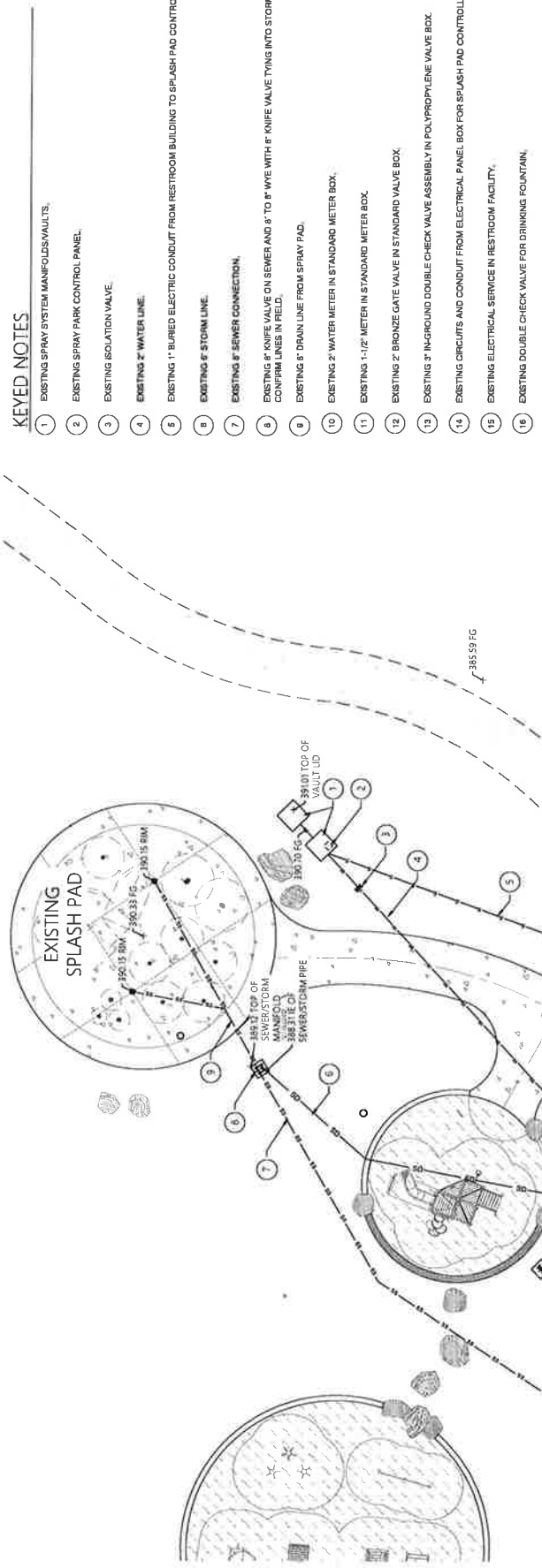
SCOPE OF WORK:
BID DESCRIPTION:

SHEET INDEX:

- | | |
|-------|-----------------------------|
| CV.01 | COVER SHEET |
| G1.0 | EXISTING AS-BUILT PLAN |
| L1.0 | EXISTING CONDITIONS |
| L1.1 | DEMOLITION PLAN |
| L1.2 | SCHEMATIC PIPING PLAN |
| L1.3 | DETAILS |
| L1.31 | DETAILS |
| L1.4 | MECHANICAL BUILDING DETAILS |
| L1.5 | TELEMETRY-ELECTRICAL PLAN |







KEYED NOTES

- 1 EXISTING SPRAY SYSTEM MANIFOLD/VAULTS.
- 2 EXISTING SPRAY PARK CONTROL PANEL.
- 3 EXISTING ISOLATION VALVE.
- 4 EXISTING 2" WATER LINE.
- 5 EXISTING 1" BURIED ELECTRIC CONDUIT FROM RESTROOM BUILDING TO SPLASH PAD CONTROLLER.
- 6 EXISTING 8" STORM LINE.
- 7 EXISTING 8" SEWER CONNECTION.
- 8 EXISTING 8" KNIFE VALVE ON SEWER AND 8" TO 8" KNIFE VALVE TYING INTO STORM LINE. CONFIRM LINES IN FIELD.
- 9 EXISTING 8" DRAIN LINE FROM SPRAY PAD.
- 10 EXISTING 2" WATER METER IN STANDARD METER BOX.
- 11 EXISTING 1-1/2" METER IN STANDARD METER BOX.
- 12 EXISTING 2" BRONZE GATE VALVE IN STANDARD VALVE BOX.
- 13 EXISTING 3" MAGROUND DOUBLE CHECK VALVE ASSEMBLY IN POLYPROPYLENE VALVE BOX.
- 14 EXISTING CIRCUITS AND CONDUIT FROM ELECTRICAL PANEL BOX FOR SPLASH PAD CONTROLLER.
- 15 EXISTING ELECTRICAL SERVICE IN RESTROOM FACILITY.
- 16 EXISTING DOUBLE CHECK VALVE FOR DRINKING FOUNTAIN.

NOTES

- ALL INFORMATION OBTAINED FROM PREVIOUS DOCUMENTS AND PROVIDED AS-BUILT INFORMATION. CONTRACTOR RESPONSIBLE TO VERIFY CONDITIONS AND NOTIFY OWNER OF DISCREPANCIES.

PROGRESS SET
NOT FOR CONSTRUCTION



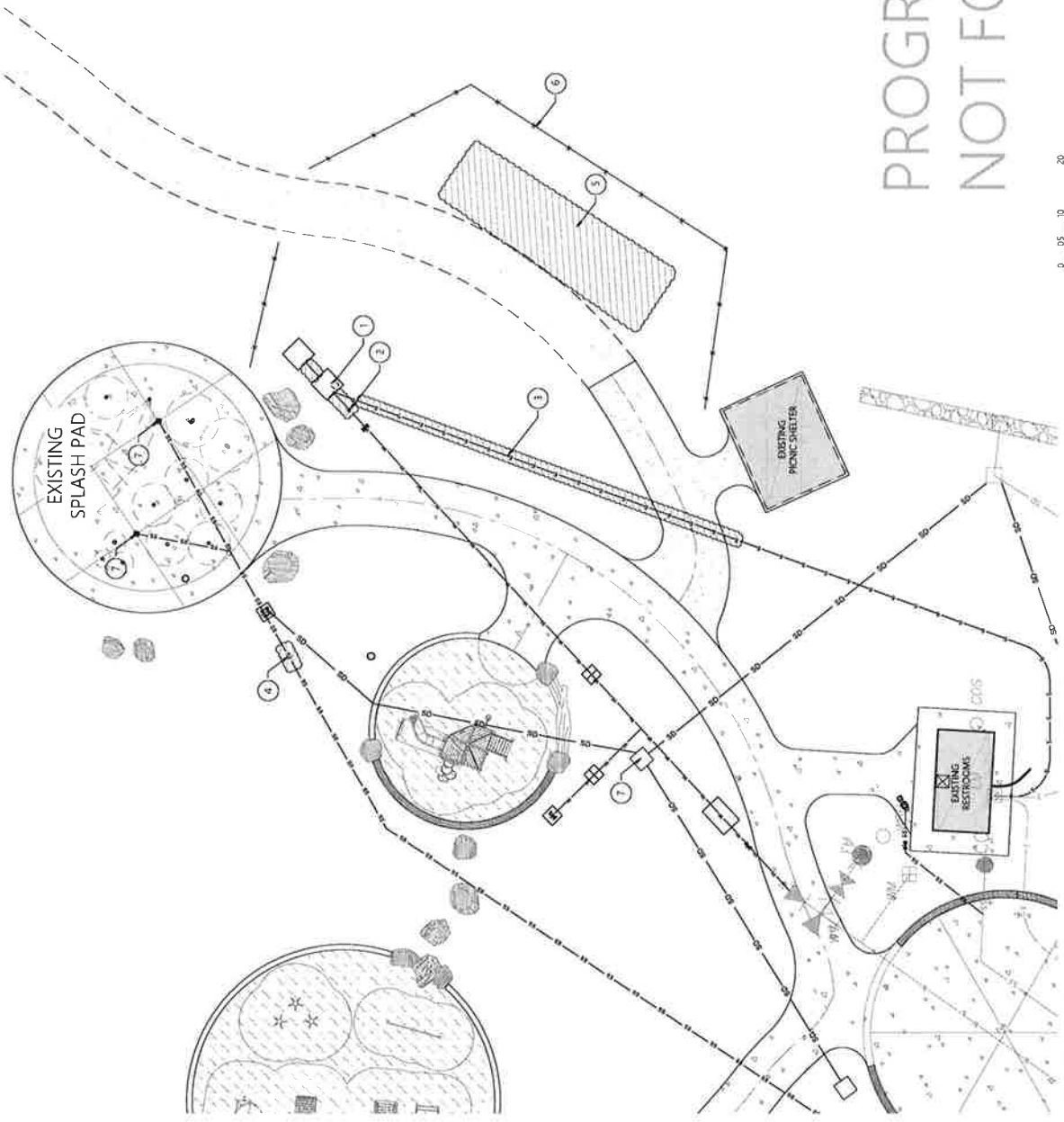
EXISTING CONDITIONS
SCALE: 1" = 10'-0"

DEMOLITION NOTES:

1. CONTRACTOR IS RESPONSIBLE FOR VERIFYING CONDITIONS IN THE FIELD PRIOR TO BID SUBMISSION. ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND PROJECT INTENT / CONTRACT DOCUMENTS AFFECTING THE COST OF THE PROJECT SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE IMMEDIATELY.
2. PRIOR TO COMMENCING WORK, CONTRACTOR TO ENSURE THAT ALL TREE PROTECTION MEASURES HAVE BEEN INSTALLED PER CITY OF PORT ORCHARD STANDARDS.
3. ALL EXISTING UTILITIES, INCLUDING BUT NOT LIMITED TO, WATER, SEWER, GAS, AND TELEPHONE, SHALL BE LOCATED AND DEPTH OF ALL UNDERGROUND UTILITIES SHOWN ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL UTILITIES AND THEIR CONNECTION POINTS PRIOR TO CONSTRUCTION. COST OF LOCATES IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED TO THE EXISTING UTILITIES AND UTILITY STRUCTURES THAT ARE TO REMAIN. COORDINATE WITH THE APPROVED AGENCIES AS NEEDED PRIOR TO DEMOLITION.
4. ALL EXISTING STRUCTURES, TREES, SHRUBS, FENCES, GRAVEL WALKS, FOUNDATIONS, ASPHALT AND CONCRETE WHERE DESIGNATED FOR DEMOLITION/REMOVAL ARE TO BE REMOVED FROM SITE UNLESS OTHERWISE SHOWN OR DIRECTED. CONTRACTOR SHALL REMOVE ALL WASTE MATERIAL AND DEBRIS FROM SITE AND DISPOSE OF LEGALLY IN AN APPROPRIATE MANNER.
5. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS, INCLUDING RIGHT-OF-WAY OBSTRUCTION PERMITS WHERE APPLICABLE.
6. CONTRACTOR IS RESPONSIBLE FOR INCIDENTAL TRAFFIC CONTROL MEASURES AS REQUIRED IN ACCORDANCE WITH THE MANUAL ON TRAFFIC CONTROL DEVICES (MUTCD) AND WASHINGTON STATE MODIFICATIONS TO THE MUTCD.
7. THE CONTRACTOR SHALL SUBMIT TO THE CITY OF PORT ORCHARD, THE TRUCK ROUTE, SCHEDULE OF DEMOLITION, TRAFFIC CONTROL PLAN, METHOD OF DEMOLITION, AND DUST AND NOISE CONTROL MEASURES AS REQUIRED TO OBTAIN OBSTRUCTION PERMIT.
8. PRIOR TO BEGINNING ANY DEMOLITION OR GROUND DISTURBING ACTIVITIES, THE CONTRACTOR SHALL INSTALL BMPs FOR EROSION AND SEDIMENT CONTROL. MEASURES SHALL INCLUDE BUT ARE NOT LIMITED TO:
a. EROSION CONTROL: SLOPE PROTECTION, SLOPE STABILIZATION, SLOPE REPAIR, SLOPE REINFORCEMENT, SLOPE PRESERVE AND PROTECT EXISTING IMPROVEMENTS TO REMAIN. REPAIR OR REPLACE ALL HARDSCAPE AND SOFTSCAPE DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITY.
9. TREE PRUNING, REMOVAL, AIR SPRAYING AND ROOT PRUNING SHALL BE PERFORMED UNDER A CITY OF PORT ORCHARD ARBORIST SUPERVISION. CONTRACTOR SHALL COORDINATE DIRECTLY WITH CITY OF PORT ORCHARD ARBORIST TO SCHEDULE WORK.
10. OWNER WILL FURNISH COMPACTION & MATERIAL TESTING. IF CONTRACTOR FAILS TESTING, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADDITIONAL TESTING UNTIL COMPACTION AND MATERIALS MEET SPECIFICATION.

KEYED NOTES

1. EXISTING SPRAY PARK CONTROL PANEL. PANEL TO BE REMOVED AND NEW UNIT TO BE LOCATED IN MECHANICAL ROOM.
2. INTERCEPT EXISTING WATER LINE AND REROUTE TO WATER STORAGE TANK.
3. ABANDON EXISTING ELECTRICAL. REROUTE TO MECHANICAL BUILDING PER SHEET L1.2.
4. REMOVED EXISTING SECTION OF SANITARY SEWER LINE TO ALLOW FOR SUMP BOX AND STRAINER.
5. APPROXIMATE CLEAR AND GRUB LIMITS FOR MECHANICAL BUILDING, STORAGE TANK AND SUMP PUMP.
6. RECOMMENDED SILT FENCE LOCATION. ADJUST AS NECESSARY TO MAINTAIN SEDIMENT IN PROJECT AREA. SILT FENCE SHALL COMPLY WITH WSDOT STANDARD PLAN 130.15-02.
7. INLET PROTECTION SHALL COMPLY WITH WSDOT STANDARD DETAIL 140.20.00.



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DEMOLITION PLAN
SCALE: 1" = 10'-0"

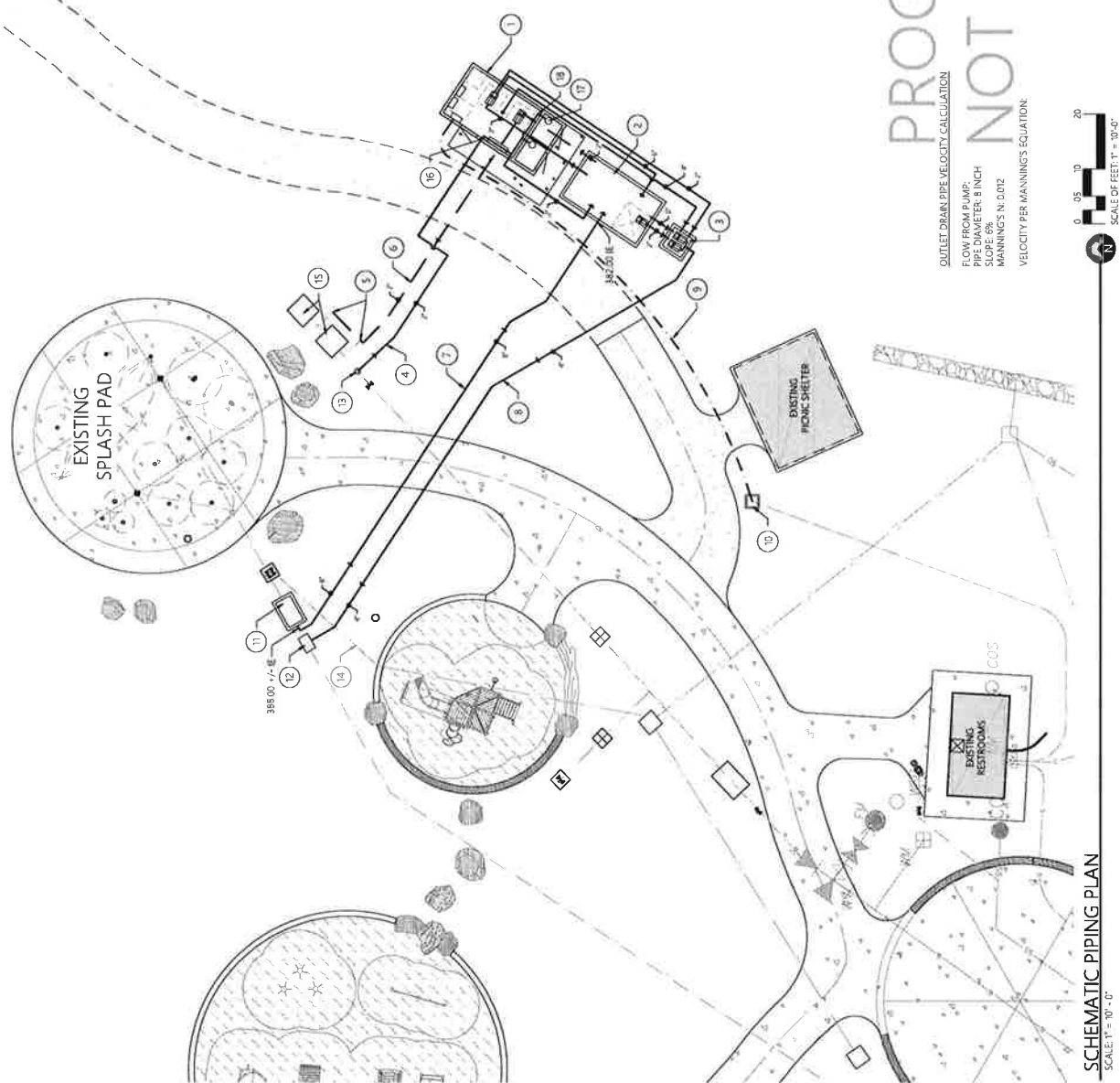
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PLUMBING NOTES:

1. ADJUSTMENT OF WATER FEATURE IMPROVEMENTS MAY BE REQUIRED DUE TO EXISTING SITE CONDITIONS. NOTIFY THE ARCHITECT IMMEDIATELY OF ANY DISCREPANCIES FOUND BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS.
2. CONTRACTOR TO COORDINATE WITH OTHER TRADES TO PLACE PIPE, INSTALL MECHANICAL EQUIPMENT INCLUDING CONNECTION TO POWER AND UTILITIES, INSTALLATION OF FUTURES, AND OTHER WORK INTEGRAL TO THE SUCCESSFUL INSTALLATION OF WATER FEATURE MECHANICAL AND PLUMBING SYSTEM.
3. PIPING LOCATIONS ARE DIAGRAMMATIC ONLY AND SHOULD ONLY BE USED AS CONSTRUCTION REFERENCE.
4. ALL PIPING TIES SHOULD BE EQUAL IN SIZE TO THAT OF THE LARGEST CONNECTED PIPE.
5. ALL PIPING SHALL BE SCHEDULE 40 PVC PRESSURE PIPE AND FITTINGS, ALL PIPING OUTSIDE VALUITS SHALL BE SCHEDULE 40 PVC PRESSURE PIPE AND FITTINGS.
6. ALL PIPING INSIDE VALUITS SHALL BE SCHEDULE 80 PVC PRESSURE PIPE AND FITTINGS.
7. EVERY PIECE OF EQUIPMENT SHOULD BE CONNECTED BY UNIONS ON THE INLET AND OUTLET SIDES TO ALLOW FOR MAINTENANCE REMOVAL AND REPLACEMENTS.
8. ALL VALUITS SHALL HAVE A UNIFORM SLOPE BACK TO THE MECHANICAL BUILDING AND STORAGE TANK AND DISCHARGE TO THE STREET OR TO THE STREET DRAINAGE SYSTEM.
9. EITHER DRAIN VALVES SHALL BE INSTALLED AT THE LOW POINT OR PIPES SHOULD BE BLOWN OUT AND PLUGGED TO AVOID FREEZING.
10. ALL WALLS AND LANDSCAPE AREAS TO BE RESTORED TO ORIGINAL CONDITIONS ONCE WORK IS COMPLETE.
11. PHOTO DOCUMENTATION REQUIRED PRIOR TO BEGINNING ANY WORK.
12. ELECTRICAL COMPONENTS ARE SHOWN FOR LOCATION REFERENCE ONLY.
13. PUMP SYSTEMS MAY BE PROVIDED AS INDIVIDUAL COMPONENTS OR AS SUMP SYSTEM. ONLY APPROVED EQUIPMENT AND MATERIALS SHALL BE UTILIZED.
14. PRESSURE TESTING OF NEW PIPE IS REQUIRED PRIOR TO BACKFILL. PRESSURE TEST TO MEET WSDOT STANDARDS (120 PSI FOR 1 HOUR WITH LESS THAN 5 PSI LOSS). MORE THAN 5 PSI LOSS IN 1 HOUR RESULTS IN A FAILURE. CONTRACTOR IS RESPONSIBLE FOR RETESTING COST AND REPAIR COST UNTIL TEST IS PASSED.

KEYED NOTES

1. MECHANICAL BUILDING. SEE DETAIL X-SHEET LXX.
2. WATER RESERVOIR. SEE DETAIL X-SHEET LXX.
3. OVERFLOW VAULT. SEE DETAIL X-SHEET LXX.
4. 2" AUTO FILL LINE.
5. CONNECT NEW SUPPLY LINE TO EXISTING FEED OF MANHOLE. ADAPT TO EXISTING LINE SIZE.
6. FEATURE SUPPLY LINE FROM MECHANICAL ROOM TO EXISTING MANHOLE.
7. DRAIN LINE FROM SPLASH PAD TO RESERVOIR. APPROXIMATELY 100 LF, 8.0% SLOPE.
8. PRESSURIZED EVACUATION LINE FROM SUMP PUMP/OVERFLOW VAULT TO SANITARY SEWER LINE.
9. ELECTRICAL CONDUIT TO MECHANICAL ROOM FOR SPLASH PAD CONTROLLER.
10. ELECTRICAL HAND HOLE.
11. BASKET STRAINER. SEE DETAIL X-SHEET LXX.
12. IN-GROUND SANITARY SUMP BOX. 30"x30"x24" DEEP CIP OR PRECAST VAULT WITH LOCKABLE HINGED CHECKER-PLATE STEEL COVER. PROVIDE 4" DOWNTURNED ELBOW WITH PIPE EXTENSION ON INSIDE OF VAULT. PROVIDE 1/2" RIM SEAL IN SUMP. RIM TO BE FLUSH WITH FINISH GRADE.
13. IF 8" OVERFLOW PIPE IN: 308.54
14. IF 8" OVERFLOW PIPE IN: 308.54
15. POINT OF CONNECTION TO EXISTING 2" WATER LINE.
16. EXISTING STORM DRAIN TO REMAIN AND PROTECT IN PLACE.
17. EXISTING SPRAY SYSTEM MANHOLE TO REMAIN AND PROTECT IN PLACE.
18. HOSE BIB.
19. EYE WASH STATION.
20. WATER SUPPLY LINE TO EYE WASH.



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OUTLET DRAIN PIPE VELOCITY CALCULATION
 FLOW FROM PUMP:
 PIPE DIAMETER: 8 INCH
 SLOPE: 0.8%
 MANNING'S N: 0.012
 VELOCITY PER MANNING'S EQUATION

0 0.5 1 20
 SCALE OF FEET: 1" = 10'-0"

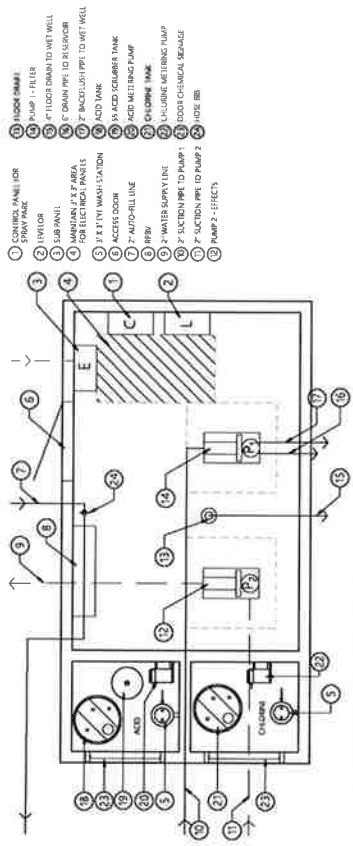
SCHEMATIC PIPING PLAN
 SCALE: 1" = 10'-0"



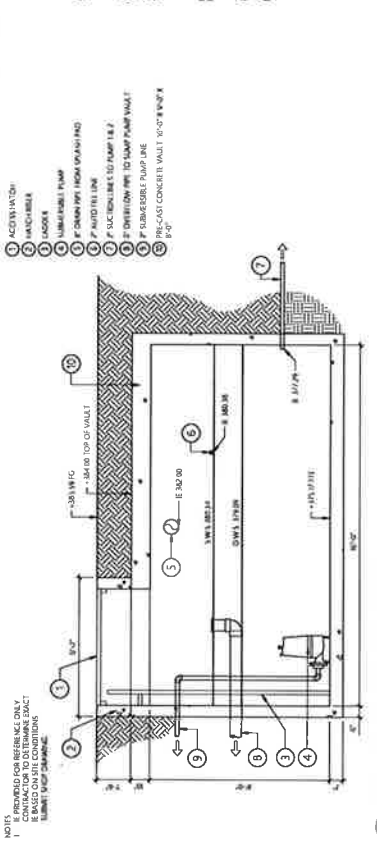
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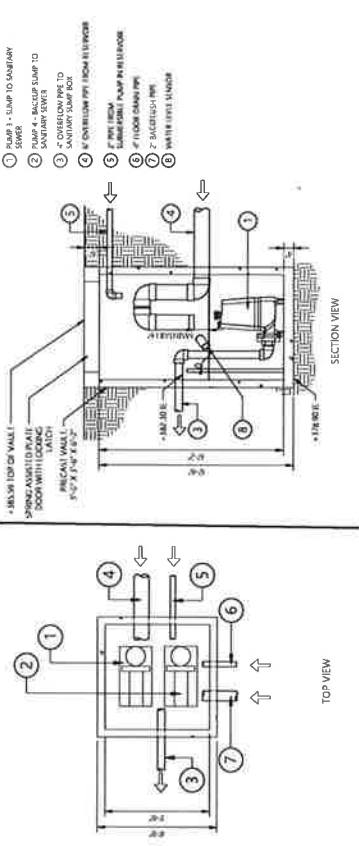
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2 WATER RESERVOIR LAYOUT
 3/8" = 1'-0"



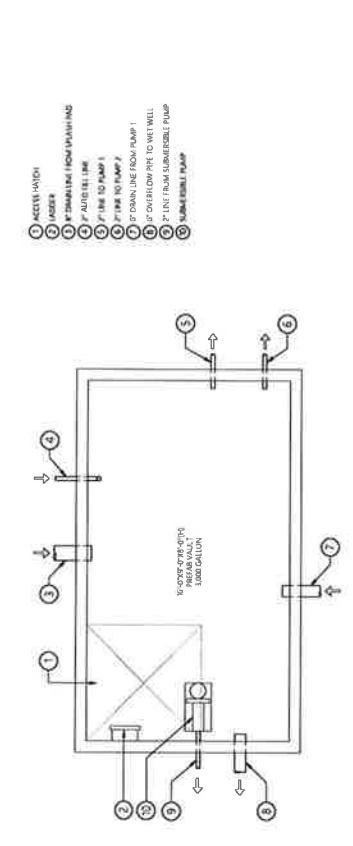
3 WATER RESERVOIR - SECTION 'A'
 3/8" = 1'-0"



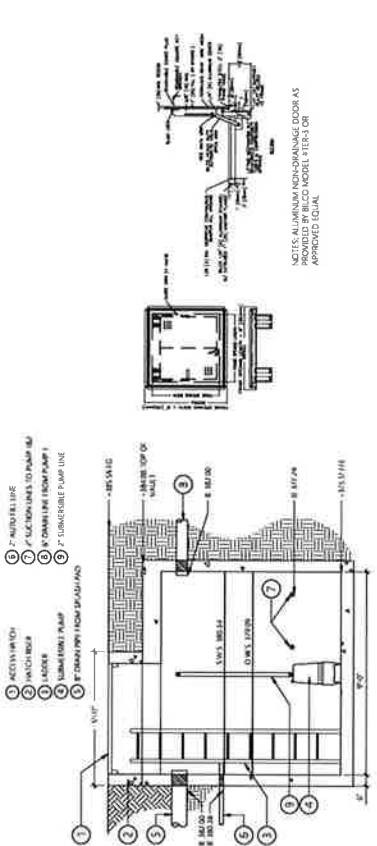
4 WATER RESERVOIR - SECTION 'B'
 3/8" = 1'-0"



5 VAULT HATCH
 3/8" = 1'-0"



3 WATER RESERVOIR - SECTION 'A'
 3/8" = 1'-0"



4 WATER RESERVOIR - SECTION 'B'
 3/8" = 1'-0"



5 VAULT HATCH
 3/8" = 1'-0"



6 OVERFLOW VAULT
 1/2" = 1'-0"

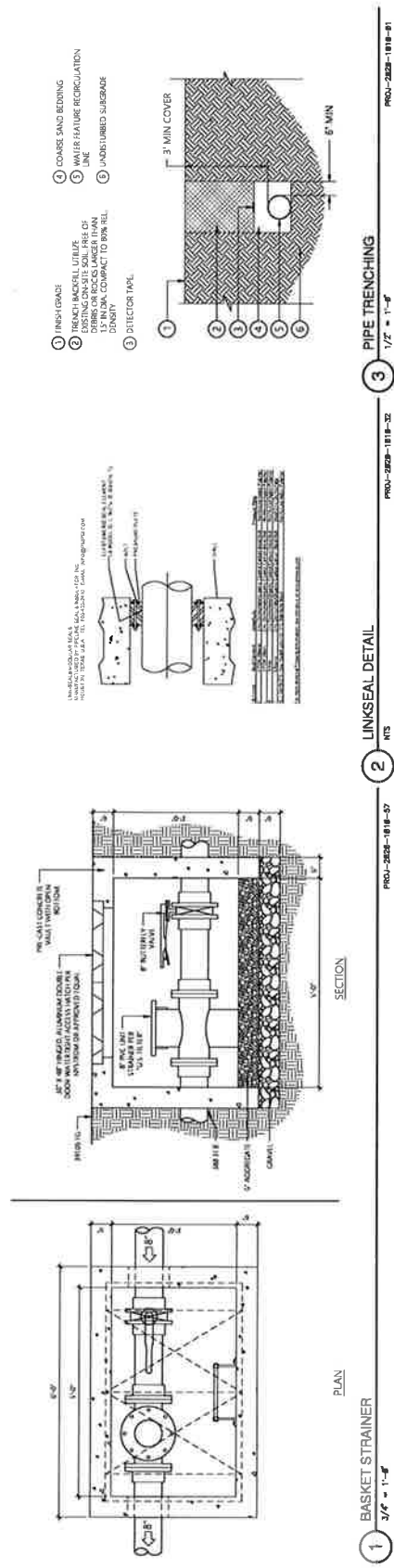


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3201 SW OLD CLIFTON ROAD
PORT ORCHARD, WA 98367

MCCORMICK VILLAGE SPLASH PAD
PORT ORCHARD, WA 98367

DATE: 06/27/2010
REVISED:

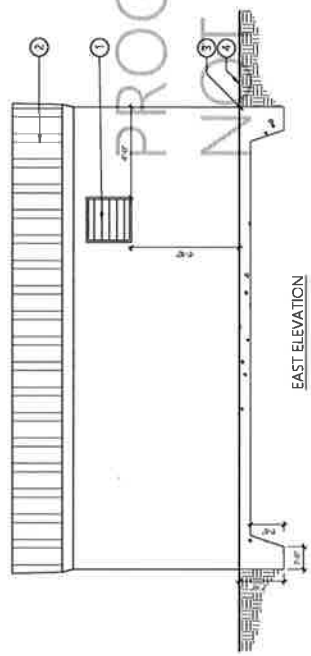
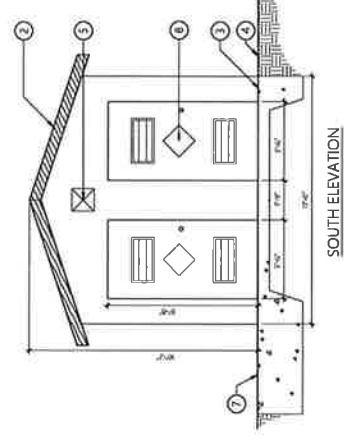
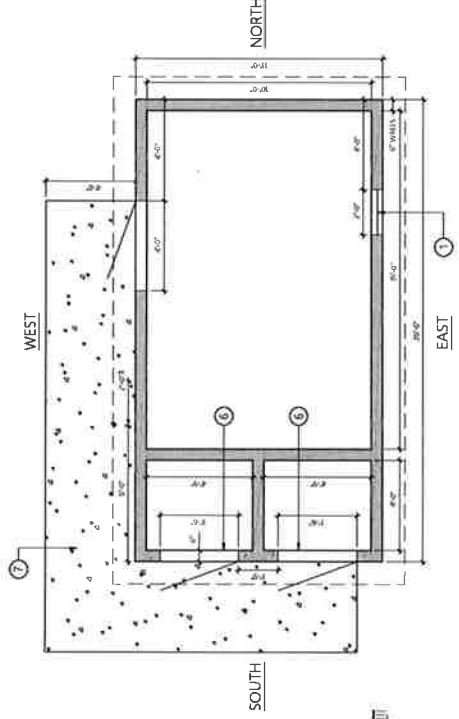
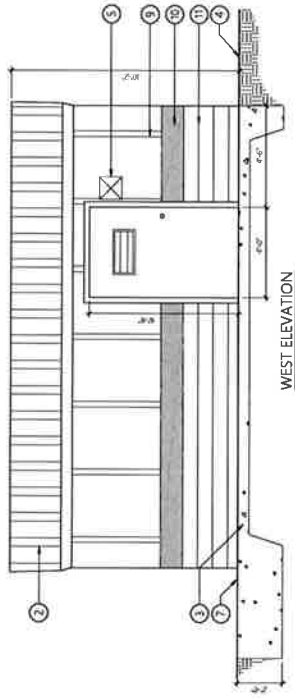
PROJECT NO. 1918-54
PROJECT NAME OF
DRAWN BY: 15

L1.4
BUILDING OF TAIL



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- BUILDING NOTES:
- 1. COVERED VEST - 2' x 2'
 - 2. STANDARD URMINEAL ROOF MATCH PINE SHED
 - 3. 4" URMINEAL CRACK
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 - 100. 4" URMINEAL CRACK



NORTH ELEVATION

EAST ELEVATION

MECHANICAL BUILDING DETAILS

3/8" = 1'-0"

PROJ-2020-1018-54

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LAND EXPRESSIONS
3015 15TH AVE SW
PORT ORCHARD, WA 98367
TEL: 360.883.2000
WWW.LANDEXPRESSIONS.COM

MCCORMICK VILLAGE SPLASH PAD
3201 SW OLD CLIFTON ROAD
PORT ORCHARD, WA 98367
TELEMETRY & ELECTRICAL PLAN

DATE: 08/11/2020
REVISED:

PROJECT NO. 1908
PROJECT NAME: CC
DRAWN BY: JH

L1.5



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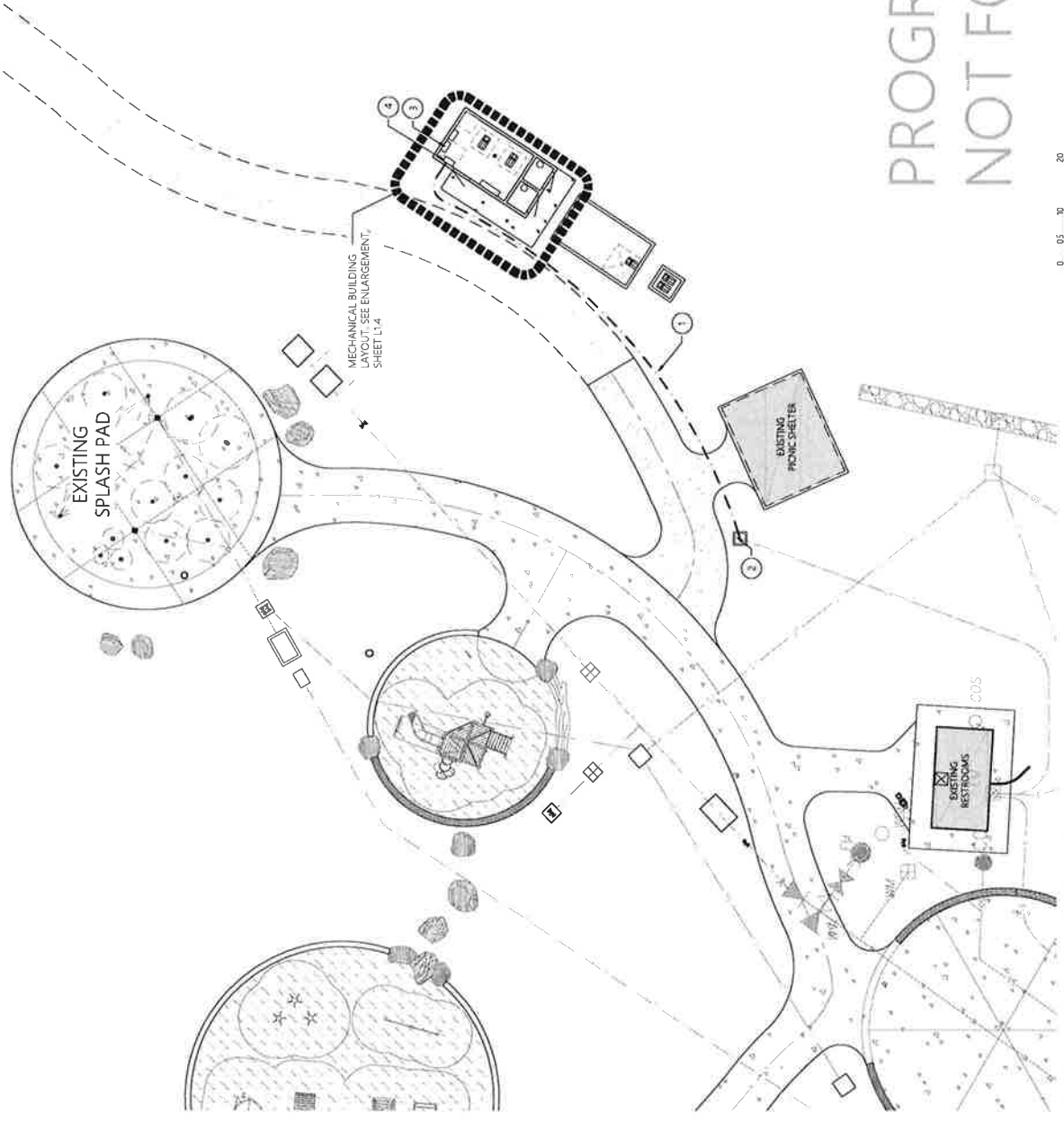
ELECTRICAL NOTES:

1. ALL ELECTRICAL CONDUITS SHALL BE INSTALLED PER NEC ARTICLE 600.5(B) WITH #6 BARE COPPER WIRES TO BE USED FOR ALL ELECTRICAL CONNECTIONS.
2. ALL EQUIPMENT MUST BE INSTALLED ACCORDING TO THE N.E.C. AND ANY ADDITIONAL LOCAL CODES.
3. ALL CONDUIT PENETRATIONS THROUGH CONCRETE MUST BE RED BRASS PIPE (R.B.P.).
4. ALL CONDUIT/ELECTRICAL PENETRATIONS MUST BE VERTICALLY PLUMB.
5. ALL ELECTRICAL PENETRATIONS THROUGH CONCRETE MUST BE RED BRASS PIPE (R.B.P.).
6. JUNCTION BOXES MUST BE INSTALLED LEVEL HAVE SEALED CONDUIT ENTRANCES, AND BE FILLED WITH AN APPROVED POTTING COMPOUND.
7. ALL LIGHTING CIRCUITS MUST HAVE SEPARATE NEUTRALS FOR G.F.I. CIRCUITS.
8. ALL CONDUIT AND WIRING TO COMPONENTS SHALL BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR.
9. CONDUIT LOCATIONS ARE DIAGRAMMATIC ONLY AND SHOULD NOT BE USED FOR CONSTRUCTION REFERENCE.
10. ALL ELECTRICAL FITTINGS AND EQUIPMENT SHALL BE LOCATED TO PROVIDE ACCESSIBILITY AFTER ALL CONSTRUCTION IS COMPLETE.
11. PLUMBING COMPONENTS ARE SHOWN FOR LOCATION REFERENCE ONLY.
12. FANTECH FR350 6" INLINE OR APPROVED EQUAL TO BE INSTALLED.

KEYED NOTES

1. RE-ROUTE ELECTRICAL CONDUIT TO MECHANICAL ROOM FOR SPLASH PAD CONTROLLER.
2. ELECTRICAL HAND HOLE.
3. SPLASH PAD CONTROL PANEL.
4. SUB PANEL.

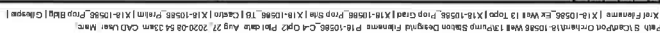
WATER FEATURE ELECTRICAL SCHEDULE

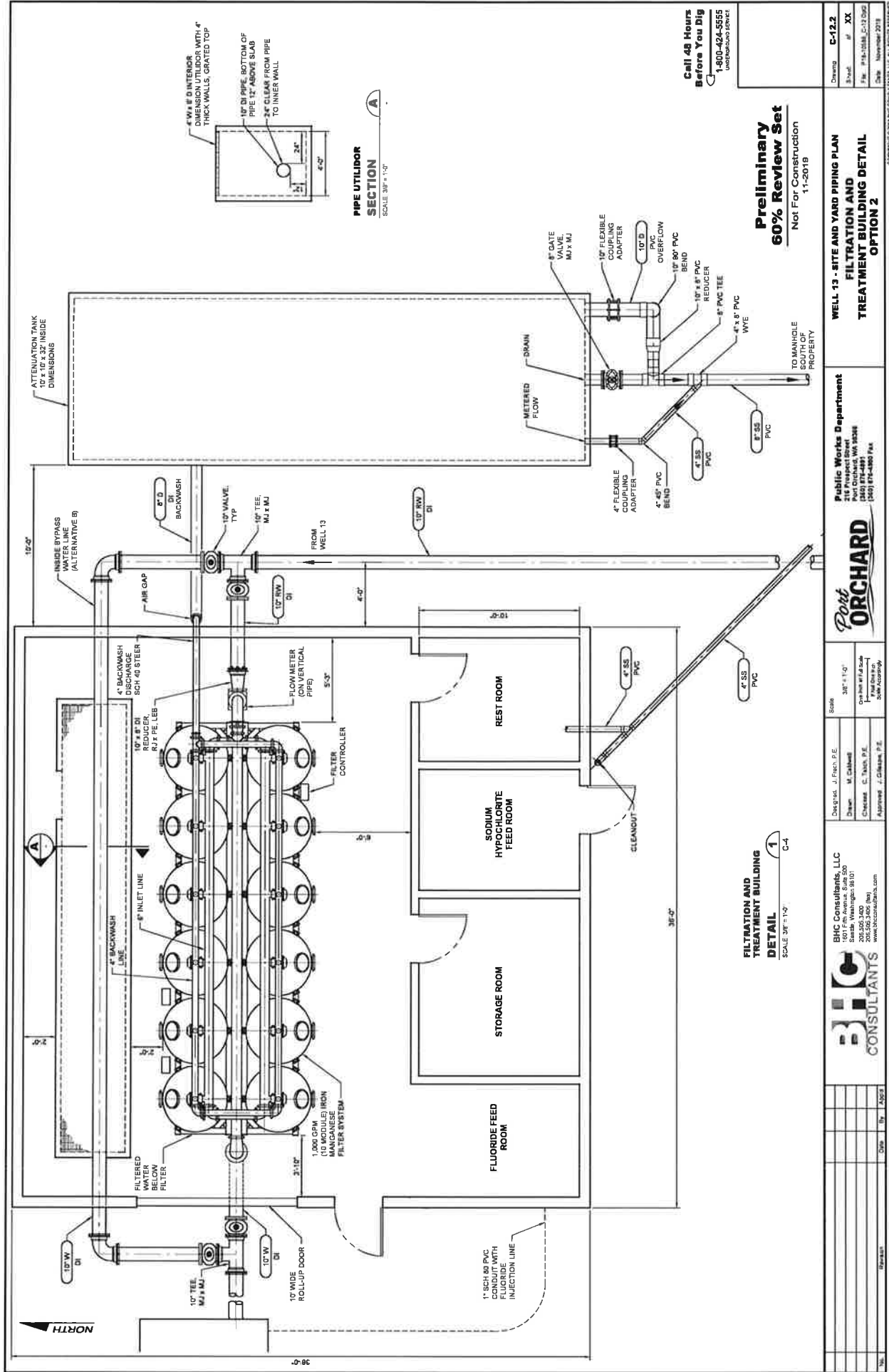


PROGRESS SET
NOT FOR CONSTRUCTION



TELEMETRY & ELECTRICAL PLAN
SCALE: 1" = 10' - 0"





ID	Task Name	Duration	Start	Finish	Predecessor	Sep 20, '20	Sep 27, '20	Oct 4, '20
1	Mobilize, set up yard etc	2 days	Mon 9/21/20	Tue 9/22/20		S	S	S
2	Temp Erosion Control	2 days	Wed 9/23/20	Thu 9/24/20	1	M	T	F
3	Clear & Grub	1 day	Mon 9/28/20	Mon 9/28/20	2	S	S	S
4	String / Weld Pipe	3 days	Tue 9/29/20	Thu 10/1/20	3	M	T	F
5	Potholing	1 day	Mon 10/5/20	Mon 10/5/20	4	S	S	S
6	Water Main	36 days	Tue 10/6/20	Wed 12/2/20	5	M	T	F
7	STA 1+60 to 25+20	11 days	Tue 10/6/20	Thu 10/22/20		S	S	S
8	Mainline	7 days	Tue 10/6/20	Thu 10/15/20	5	M	T	F
9	Inserta Valve STA 5+00	0.5 days	Mon 10/19/20	Mon 10/19/20	8	S	S	S
10	Valving, Blowoff, etc STA 5+00	1 day	Mon 10/19/20	Tue 10/20/20	9	M	T	F
11	Dispersion Trench STA 5+40 & 23+60	1 day	Tue 10/20/20	Wed 10/21/20	10	S	S	S
12	Air / Vac STA 22+40	0.5 days	Wed 10/21/20	Wed 10/21/20	11	M	T	F
13	Water Services Sheet W-3	1 day	Thu 10/22/20	Thu 10/22/20	12	S	S	S
14	STA39+00 to 42+50	2 days	Tue 12/1/20	Wed 12/2/20	17	M	T	F
15	Mainline	2 days	Tue 12/1/20	Wed 12/2/20		S	S	S
16	Blowoff and water service	1 day	Tue 12/1/20	Tue 12/1/20		M	T	F
17	HDD 25+20 to 39+00	23 days	Mon 10/26/20	Mon 11/30/20	7	S	S	S
18	Excavate Entrance and Exit Pits	1 day	Mon 10/26/20	Mon 10/26/20		M	T	F
19	Downing Diversified	21 days	Tue 10/27/20	Wed 11/25/20	18	S	S	S
20	Connections to open cut pipe	1 day	Mon 11/30/20	Mon 11/30/20	19	M	T	F
21	Testing / Connections	6.5 days	Thu 12/3/20	Fri 12/11/20	6	S	S	S
22	Pressure Testing	2 days	Thu 12/3/20	Fri 12/4/20		M	T	F
23	Connection @ 42+05	0.5 days	Mon 12/7/20	Mon 12/7/20	22	S	S	S
24	Water Services Sheets W-3 & W-5	2 days	Mon 12/7/20	Wed 12/9/20	23	M	T	F
25	Connection @ 25+12	0.5 days	Wed 12/9/20	Wed 12/9/20	24	S	S	S
26	Connection @ 1+45	0.5 days	Thu 12/10/20	Thu 12/10/20	25	M	T	F
27	Water Services Sheet W-1	0.5 days	Thu 12/10/20	Thu 12/10/20	26	S	S	S
28	Connection @ 5+20	0.5 days	Fri 12/11/20	Fri 12/11/20	27	M	T	F
29	321 Maple Avenue	8 days	Tue 10/27/20	Fri 11/6/20	18	S	S	S
30	Demolition	4 days	Tue 10/27/20	Mon 11/2/20		M	T	F
31	Cleanup	4 days	Tue 11/3/20	Fri 11/6/20	30	S	S	S
32	Cleanup / De-mobilization	6 days	Fri 12/11/20	Mon 12/21/20	21	M	T	F
33	Topsoil / Hydroseeding	3 days	Fri 12/11/20	Wed 12/16/20		S	S	S
34	Remove temp erosion devices	1 day	Wed 12/16/20	Thu 12/17/20	33	M	T	F
35	Final Cleanup	2 days	Thu 12/17/20	Mon 12/21/20	34	S	S	S

Task

Split

Progress

Milestone

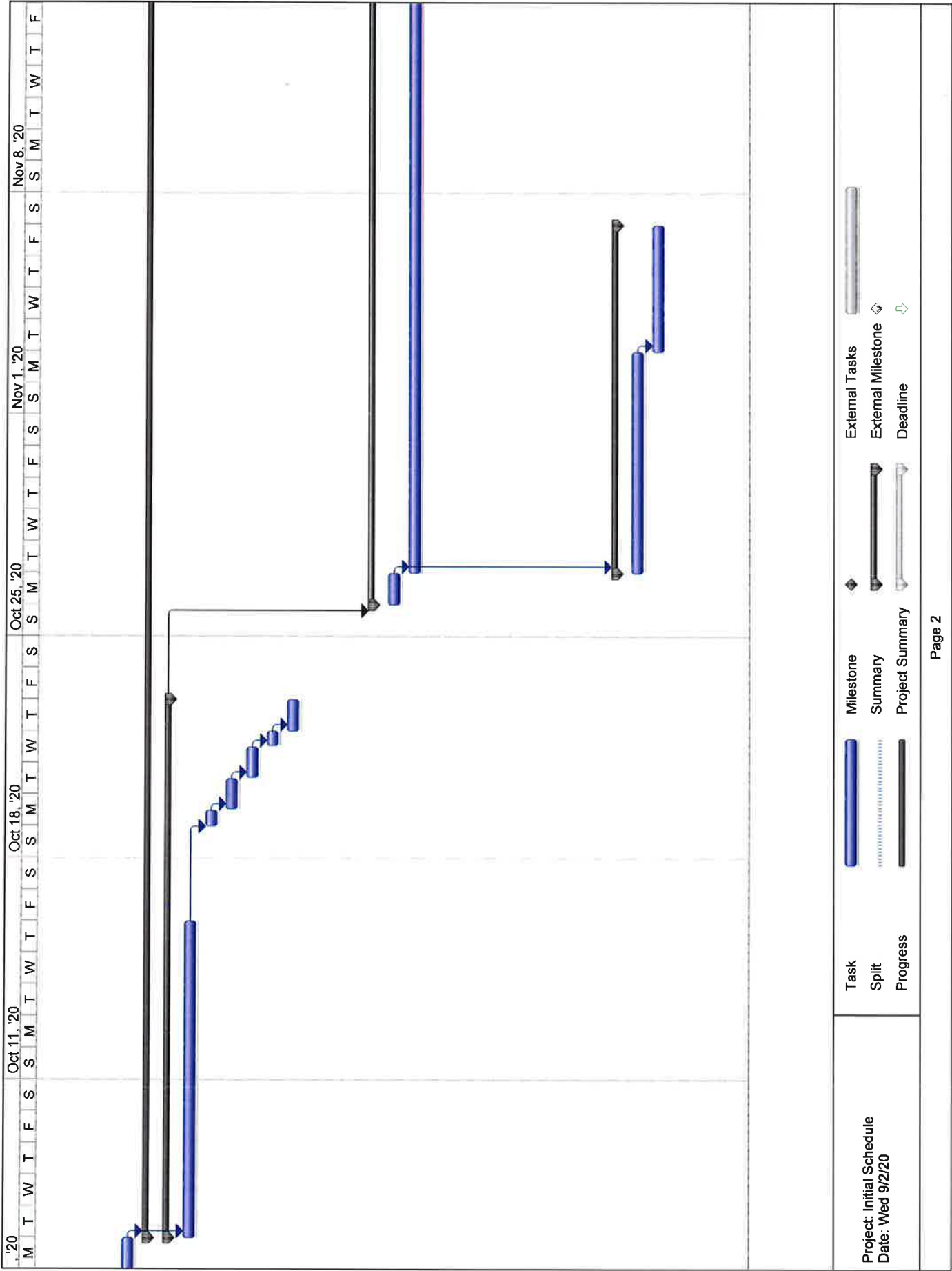
Summary

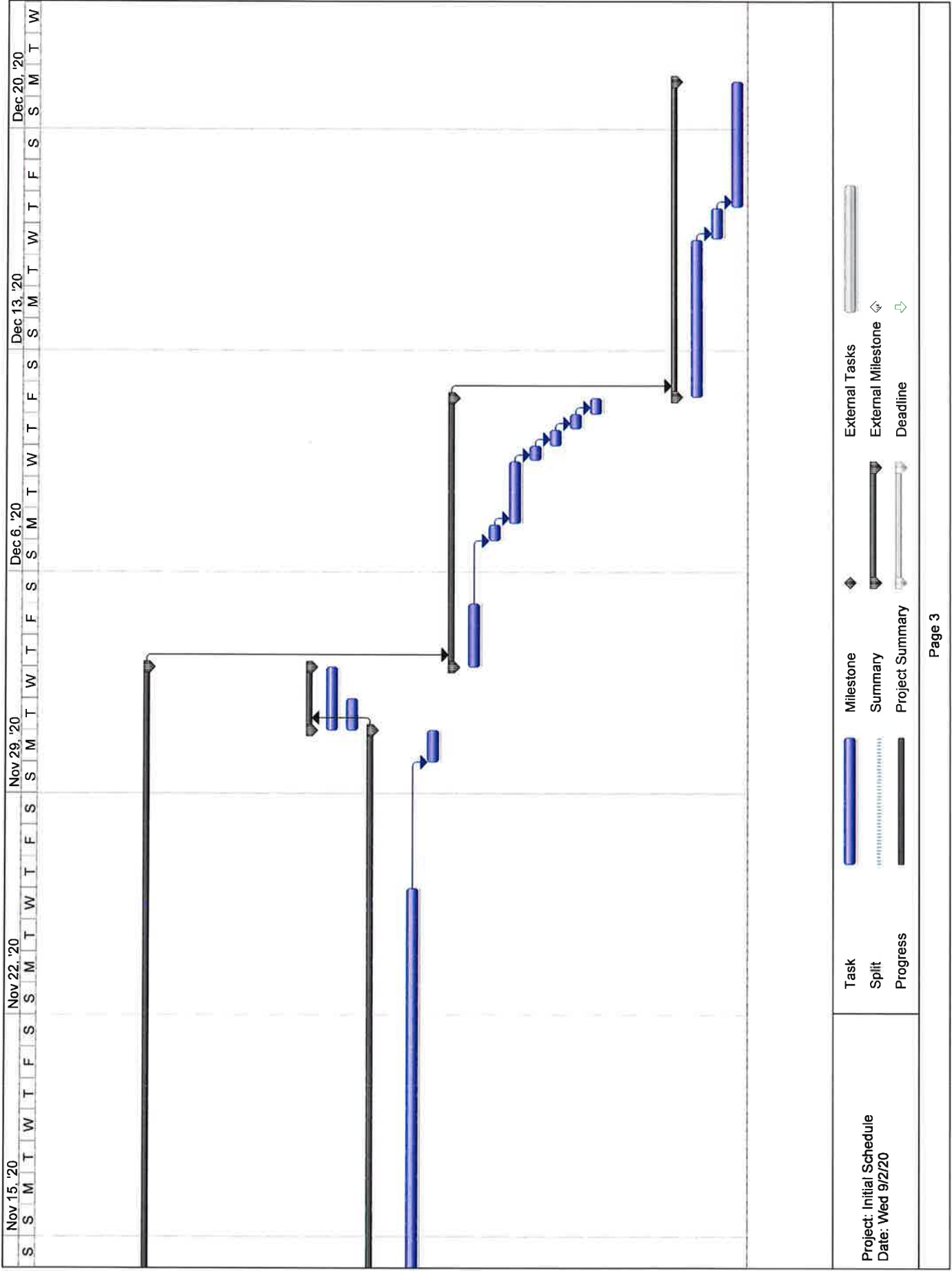
Project Summary

External Tasks

External Milestone

Deadline





Project: Initial Schedule
Date: Wed 9/2/20