

After recording return to:

City Clerk
City of Puyallup
333 South Meridian
Puyallup, WA 98371

Document Title: Stormwater Outfall Management & BMP Facilities Agreement

Grantee: City of Puyallup

Grantor: _____

Legal Description: _____

Complete Legal Description on ____ Page of this Document

Assessor's Tax Parcel or Account Numbers: _____

Reference Number of Related Document(s): _____

Stormwater Management & BMP Facilities Agreement

- A. Parties.** The parties to this agreement are Grantee City of Puyallup, a Washington State municipal corporation (City), and Grantor landowner _____ (Landowner).
- B. Property.** Landowner is the owner of certain real property (Property), which is legally described in this document and is located at the following address:
_____.
- C. Development Plan & Stormwater Facilities.** The site, subdivision or other development plan (Plan) for the Property, specifically known, entitled or described as _____, provides for detention, retention, treatment or management of stormwater that is associated with the Property through the use of identified stormwater facilities or best management practices (collectively, Stormwater Facilities). Upon approval of the Plan by the City, the Plan shall be incorporated herein by this reference. In accordance with the Plan, Landowner shall adequately construct, operate, use, maintain and repair the Stormwater Facilities.

D. Agreement. On the terms and conditions set forth herein, the City and Landowner agree as follows:

1. The Stormwater Facilities shall be constructed, operated, used, maintained and repaired by Landowner in accordance with the requirements of the Plan, and any other applicable law or regulation.
2. Landowner (which expressly includes its agents, successors and assigns, including any homeowners association) shall adequately and properly operate, use, maintain and repair the Stormwater Facilities as described in the maintenance and operations manual, which is on file with the City, and may be attached and recorded herewith as Exhibit _____. This duty extends to all associated pipes and channels, as well as all structures, improvements, and vegetation that are provided to control the quantity and quality of the stormwater. Adequate maintenance shall mean maintenance that is sufficient to keep the Stormwater Facilities in good working order and operating so as to satisfy the design and performance standards of the Plan.
3. Landowner shall regularly inspect the Stormwater Facilities and shall submit an inspection report to the City at least once a year on a date prescribed by the City. The purpose of the inspection(s) is to ensure that the Stormwater Facilities are safe and functioning properly. The scope of the inspection shall include the entire Stormwater Facilities, including but not limited to, berms, outlet structures, pond areas, access roads, and so forth. Deficiencies and any performance or other related issues shall be noted by Landowner in the inspection report. The annual report shall be in a form and include content as prescribed from time to time by the City. An example copy of the report form may be attached hereto as Exhibit _____.
4. Landowner hereby grants permission to the City to enter upon the Property to inspect the Stormwater Facilities. Except in case of emergency, the City shall provide Landowner with at least forty-eight (48) hours written notice prior to entering on to the Property. Landowner shall be entitled to have a representative accompany the City during such inspection. The City shall provide Landowner with copies of written inspection reports.
5. If Landowner fails to adequately and properly operate, use, maintain or repair the Stormwater Facilities, the City shall notify Landowner in writing and provide Landowner with a reasonable opportunity to cure. If Landowner fails to timely cure, then the City may enter upon the Property and remedy the issue(s) identified in the notice and those reasonably related thereto; Furthermore, if the City performs work of any nature, or expends any funds in performance of said work for labor, use of equipment, supplies, materials, and the like while remedying the identified issues, the City may charge the cost of the remedy to Landowner, and Landowner shall promptly pay the costs to the City. Notwithstanding the foregoing, the City shall be under no obligation to inspect, maintain or repair the Stormwater Facilities.
6. Landowner shall defend, indemnify and hold the City, its officers, officials, employees and volunteers harmless from any and all claims, injuries, damages, losses or suits including attorney fees, arising out of or in connection with activities or operations, performed by Landowner, or on Landowner's behalf, that relate to the Stormwater Facilities and the subject matter of this agreement, except for injuries and damages caused by the negligence of the City.

- E. Covenant.** The terms and provisions of this agreement constitute a covenant, which is subject to the following: This covenant is an equitable covenant. It touches and concerns the land that is described as the Property herein. The parties intend that this covenant shall bind the parties' successor and assigns. This covenant shall run with the land that is described as the Property herein, and shall bind whoever has possession of the land, in whole or in part, without regard to whether the possessor has title, or has succeeded to the same estate that granting parties have or had. Possessors shall include, but are not limited to, leasehold tenants, contract purchasers, subtenants, and adverse possessors. This covenant shall run with the land even in the absence of the transfer of some interest in land, other than the covenant itself, between Landowner and the City. This covenant shall not be governed by the mutuality rule. The burden of the covenant can run independently from the benefit of the covenant, and the benefit need not run. The benefit may be in gross or personal to Landowner or the City. Landowner waives its right to assert any defenses to the enforcement of this covenant, including, but not limited to, the change of neighborhood doctrine, laches, estoppel, balancing of hardships, and abandonment. If Landowner breaches any term of this covenant and agreement, then all remedies in equity and at law, including, but not limited to, injunctions, mandamus, declaratory judgments, and damages, shall be available to the City.
- F. Governing Law & Venue.** This agreement shall be governed by and construed in accordance with the laws of the State of Washington. The venue for any action that arises from or out of this instrument shall be the Pierce County Superior Court.

<signature page to follow>

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Exhibit A

Legal taken from S&H Job Number 17793
Topographic and boundary Survey

LEGAL DESCRIPTION

THE LAND IN THE COUNTY OF PIERCE, STATE OF WASHINGTON,
DESCRIBED AS FOLLOWS:

THE WEST HALF OF THE SOUTHWEST QUARTER OF THE SOUTHWEST
QUARTER AND THE WEST HALF OF THE WEST HALF OF THE EAST HALF
OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION
4, TOWNSHIP 19 NORTH, RANGE 4 EAST OF THE WILLAMETTE MERIDIAN;

EXCEPT THE FOLLOWING DESCRIBED PROPERTY:
BEGINNING 30 FEET NORTH AND 15 FEET EAST OF THE SOUTHWEST
CORNER OF SAID SECTION 4;
THENCE NORTH 553.14 FEET;
THENCE EAST 315 FEET;
THENCE SOUTH 553.14 FEET;
THENCE WEST 315 FEET TO THE POINT OF BEGINNING;

ALSO EXCEPT THE FOLLOWING DESCRIBED PROPERTY:
BEGINNING AT THE SOUTHWEST CORNER OF SAID SECTION 4;
THENCE NORTH 00°04'25" EAST ALONG THE WEST LINE OF SAID SECTION
A DISTANCE OF 1148.90 FEET TO THE TRUE
POINT OF BEGINNING;
THENCE NORTH 89°07'39" EAST A DISTANCE OF 162.00 FEET;
THENCE NORTH 00°04'25" EAST A DISTANCE OF 148.00 FEET;
THENCE SOUTH 89°07'39" WEST A DISTANCE OF 162.00 FEET TO THE
WEST LINE OF SAID SECTION;
THENCE SOUTH 00°04'25" WEST 148.00 FEET ALONG THE WEST LINE OF
SAID SECTION TO THE POINT OF BEGINNING;
EXCEPT 86TH AVENUE EAST RESERVED FOR COUNTY ROAD (ALSO
KNOWN AS 17TH STREET S.W.);

ALSO EXCEPT THAT PORTION THEREOF CONVEYED TO THE STATE OF
WASHINGTON BY INSTRUMENTS RECORDED UNDER
RECORDING NUMBERS 2227151, 2239840, 9407070774 AND
9407070775;

ALSO EXCEPT THE SOUTHERLY 30 FEET THEREOF FOR 39TH AVENUE
S.W. (ALSO KNOWN AS 112TH STREET EAST);
SITUATE IN THE CITY OF PUYALLUP, COUNTY OF PIERCE, STATE OF
WASHINGTON.

Exhibit B

**PUYALLUP SCHOOL DISTRICT CTE & GLAD PORTABLES
OPERATION & MAINTENANCE MANUAL**

Puyallup School District

CTE & GLAD Potables Operation & Maintenance Manual

Prepared for:

**Puyallup School District
323 12th Street NW
Puyallup, WA 98371**

**Contact: Frankie Topasna
Phone: (253) 841-8461**

**Prepared by:
Sitts & Hill Engineers, Inc.
4815 Center Street
Tacoma, Washington 98409**

**Contact: Rick Hand
Phone: (253) 474-9449**

May 27, 2021

Job Number 18,980



Puyallup School District

CTE & GLAD Portables Operation & Maintenance Manual

Prepared for:

**Puyallup School District
323 12th Street NW
Puyallup, WA 98371**

**Contact: Frankie Topasna
Phone: (253) 841-8461**

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**Sitts & Hill Engineers, Inc.
4815 Center Street
Tacoma, Washington 98409**

**Contact: Rick Hand
Phone: (253) 474-9449**

May 2021

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EXECUTIVE SUMMARY

I hereby state that this Operation and Maintenance Manual for the **Puyallup School District CTE & GLAD Portable Project** has been prepared by me or under my supervision and meets the standards or care and expertise which is usual and customary in this community for professional engineers. I understand that the City of Puyallup does not and will not assume liability for the sufficiency, suitability, or performance of drainage facilities prepared by me.

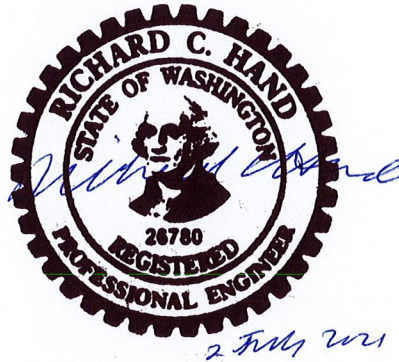


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1 Purpose

The purpose of the manual is provide guidelines for the maintaining of the on-site storm drainage system as part of the Puyallup School District CTE & GLAD Portable project. The improvements are located on parcel 04190343117. The project site is located at 1501 39th Ave SW, Puyallup, WA 98373.

The storm utility improvements include:

- Type 1 Catch Basin
- Roof Drain Piping
- Dispersion Trench

Each component of the system shall be maintained in good condition for the whole system to function properly.

Operations and maintenance of the storm drainage system will be the responsibility of the Puyallup School District:

Puyallup School District
Maintenance Department
Phillip Anderson, Director of Maintenance
323 12th Street NW
Puyallup, WA 98371

2 Permanent Facilities Description

The storm drainage system is designed to collect the portable roof runoff for dispersion. The runoff from the portable roofs will be collected by roof gutters and conveyed by roof downspouts and roof drain piping to the dispersion trench for disposal. Runoff from other surfaces (AC pavement, concrete sidewalks, building ramps and landings, gravel and grass) will continue to infiltrate onsite to underlying soils. See Appendix B – Grading and Drainage Plans for facility details.

3 Discussions of Maintenance

Buildup of sediment, debris, vegetation, or trash that impedes the stormwater runoff flows may cause problems for the storm drainage system. As a result, proper care must be taken to keep drainage components operational and prevent the system from not functioning properly.

Required maintenance or Best Management Practice (BMPs):

BMP ID #	BMP Description	Required BMP
1	Building Roof Gutter	Verify building roof gutters are clean and free of debris. Clean out debris as required.
2	Roof Drain Pipelines	Verify conveyance pipelines function properly. Jet clean or flush out roof drain pipelines that become plugged through the system cleanouts.
3	Catch Basin	Verify sump cleanliness. A “vactor” truck, or other approved means, should be used to clean catch basin sumps. Sediment removed for the sump shall be disposed of at an approved off-site facility.
4	Dispersion Trench	Verify satisfactory performance. The top of the dispersion trench consist of washed rock and shall remain as such. The notch board on the east side of the dispersion trench acts as stormwater overflow and need to remain clear at all times. Do not cover the dispersion trench surfacing with soils, vegetation, or debris.
5	Landscaping	Maintain landscaping adjacent to the dispersion trench in a neat and clean condition. Do not use toxic or poisonous products to maintain landscaping.

The applicable maintenance checklists are included in this manual for review during routine maintenance inspections, see Appendix A – Maintenance Checklist.

4 Maintenance Frequency

All facilities shall be inspected and maintained according to Section 3 Discussion of Maintenance requirements. Facilities shall be inspected annually, monthly, or after any significant storm event where the precipitation is greater than one inch in 24 hours. Record all maintenance activities utilizing the Inspection and Maintenance Form provided in Appendix C – Inspection and Maintenance Forms. It is recommended that the maintenance checklist be kept in a log book or binder onsite for documentation and review purposes. Submit documented activities annually to the City of Puyallup address listed on the bottom of the Inspection and Maintenance Form.

When deficiencies are noted, the problems are to be corrected as soon as possible. Any spills of hazardous material (e.g. fuel, lubricant, herbicide, etc.) will be cleaned up immediately and reported to the Division of Emergency Management (1-800-258-5990). Contaminated material will be disposed of properly.

Any questions about the existence of a problem should be directed to a Professional Engineer.

5 Annual Cost of Maintenance

Annual maintenance cost for the storm drainage system will include the cleaning of the catch basin, dispersion trench, and conveyance piping and vegetation maintenance. Approximate annual cost for each storm elements are outline below:

Facility	Quantity	Unit Cost	Total Cost
Catch Basin	1	\$250	\$250
Dispersion Trench	30 LF	\$10	\$300
Roof Drain Piping (as needed)	Lump Sum	\$350	\$350
Vegetation	Lump Sum	\$800	\$800
Total			\$1,700

6 Appendices

6.1 Appendix A - Maintenance Checklist

Dispersion Trench

Frequency	Drainage System Feature	Date				Problem	Conditions to Check For	Conditions That Should Exist
Monthly	General					Contaminants and Pollution	Any evidence of oil, gasoline, contaminants or other pollutants in or around facility	Remove. (Coordinate removal and cleanup with local water quality response agency).
Monthly	General					Drainage Slow	Drainage Trench - decreased capacity that indicates slow drainage	Clean perforated drain pipe. Do not allow removed sediment and water to discharge back into the storm sewer.
Monthly	General					Sediment & Debris	Sediment depth is greater than 20% of pipe diameter.	Clean pipe and remove material.
Monthly	General					Trash & Debris	Trash or debris which is located immediately in front of the catch basin opening or is blocking inletting capacity of the basin by more than 10%.	No Trash or debris located immediately in front of catch basin or on grate opening.
Monthly	General					Trash & Debris	Trash or debris (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance	No trash or debris in the trench.

											from the debris surface to the invert of the lowest pipe.	
Monthly	General							Trash & Debris	Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height.	Inlet and outlet pipes free of trash or debris.		
Monthly	General							Trash & Debris	Dead animals or vegetation that could generate odors that could cause complaints or dangerous gases (e.g., methane).	No dead animals or vegetation present within the catch basin.		
Monthly	General							Trash & Debris	Vegetation, soil stockpiles or some form of cover over the dispersion trench.	Remove all vegetation, stockpiles and debris from top of dispersion trench.		

Catch Basins

Frequency	Drainage System Feature	Dates			Problem	Conditions to Check For	Conditions That Should Exist
Annually	General				“Dump no pollutants” Stencil or stamp not visible	Stencil or stamp should be visible and easily read	Warning signs (e.g., “Dump No Waste-Drains to Stream”) shall be painted or embossed on or adjacent to all storm drain inlets.
Monthly, Severe Storm Event	General				Trash & Debris	Trash or debris which is located immediately in front of the catch basin opening or is blocking inletting capacity of the basin by more than 10%	No trash or debris located immediately front of catch basin or grate opening.
Monthly	General				Trash & Debris	Trash or debris (in the basin) that exceeds 60% of the sump depth as measured from the bottom of basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum of six inches clearance from the debris surface to the invert of the lowest pipe.	No trash or debris in the catch basin.
Monthly	General				Trash & Debris	Trash or debris in any inlet or outlet pipe blocking more than 1/3 of its height.	Inlet and outlet pipes free of trash or debris.

Monthly	General				Trash & Debris	Dead animals or vegetation that could cause complaints or dangerous gases (e.g., methane).	No dead animals or vegetation present within the catch basin.
Monthly	General				Sediment	Sediment (in the basin) that exceeds 60 percent of the sump depth as measured from the bottom of the basin to invert of the lowest pipe into or out of the basin, but in no case less than a minimum six inch clearance from the sediment surface to the invert of the lowest pipe.	No sediment in the catch basin.
Annually	General				Structure Damage to Frame and/or Top Slab	Top slab has holes larger than 2 square inches or cracks wider than ¼ inch (Intent is to make sure no material is running into basin).	Top slab is free of holes and cracks
Annually	General				Structure Damage to Frame and/or Top Slab	Frame not sitting flush on top slab, i.e., separation of more than ¾ inch of the frame from the top of the slab. Frame is not securely attached.	Frame is sitting flush on the riser rings or top slab and firmly attached.
Annually	General				Fractures or Cracks in basin Walls/Bottom	Maintenance person judges that structure is unsound.	Basin replaced or repaired to design standards.

Annually	General				Fractures or Crack in Basin Walls/Bottom	Grout fillet has separated or cracked wider than ½ inch and longer than 1 foot at the joint of any inlet/outlet pipe or any evidence of soil particles entering the catch basin through cracks.	Pipe is regouted and secure at basin wall.
Annually	General				Settlement/ Misalignment	If failure of basin has created a safety function, or design problem.	Basin replaced or repaired to design standards.
Monthly	General				Vegetation	Vegetation growing across and blocking more than 10% of the basin opening.	No vegetation blocking opening to basin.
Monthly	General				Vegetation	Vegetation growing in inlet/ outlet of pipe joints that are more than six inches tall and less than six inches apart.	No vegetation or root growth present.
Monthly	General				Contamination and Pollution	Any evidence oil, gasoline, contaminants or other pollutants (Coordinate removal/cleanup with local water quality response agency).	No contaminants or pollutants present.
Annually	Catch Basin Cover				Locking Mechanism Not Working	Mechanism cannot be opened by one maintenance person with proper tools.	Mechanism opens with proper tools.

							Bolts into frame have less than 1/2 inch of thread.	
Annually	Catch Basin Cover					Cover Difficult to Remove	One maintenance person cannot remove lid after applying normal lifting pressure. (Intent is keep cover from sealing off access to maintenance.)	Cover can be removed by one maintenance person.
Annually	Ladder					Ladder rungs Unsafe	Ladder is unsafe due to missing rungs, not securely attached to basin wall, misalignment, rust, cracks, or sharp edges	Ladder meets design standards and allows maintenance person safe access.
Annually	Grates					Grate Opening Unsafe	Grate with opening wider than 7/8 inch.	Grate opening meets design standards.
Annually	Grates					Trash and Debris	Trash and debris that is blocking more than 20% of grate surface inletting capacity.	Grate free of trash and debris.
Monthly, Severe Storm Event	Grates					Damaged or Missing	Grate missing or broken member(s) of the grate.	Grate is in place and meets design standards

6.2 Appendix B – Grading & Drainage Plans

SW 1/4, SECTION 4, TOWNSHIP 19N, RANGE 4E, W.M.

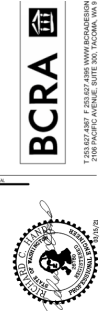
PUYALLUP SCHOOL DISTRICT CTE AND GLAD PORTABLES

1501 39TH AVE SW
PUYALLUP, WA 98373

APPROVED
BY: FRUITLAND MUTUAL WATER COMPANY
DATE: _____
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS OF THESE PLANS.
FIELD CONDITIONS MAY DEVIATE CHANGED TO THESE PLANS AS DETERMINED BY THE WATER PURVEYOR.

APPROVED
BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
DATE: _____
NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS OF THESE PLANS.
FIELD CONDITIONS MAY DEVIATE CHANGED TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER.

CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549
Call 811
NO BUSINESS DAYS
6:00AM-5:00PM



PROJECT INFORMATION:
SITE ADDRESS: 1501 39TH AVE SW, PUYALLUP, WA 98373
PARCEL NO: 041904317 (16.83 ACRES)
ZONING: PF (PUBLIC FACILITIES)
OWNER CONTACT: PUYALLUP SCHOOL DISTRICT NO. 3
323 12TH ST NW
PUYALLUP, WA 98371
LAND USE: PUYALLUP SCHOOL DISTRICT SUPPORT OPERATIONS
100-YEAR FLOORPLAN: N/A - ZONE 'Y' PER FEMA MAP PANEL NUMBERS 530303341E
SCOPE OF WORK: INSTALLATION OF TWO PORTABLE BUILDINGS (ONE PORTABLE=36'x24' FOOTPRINT, #36'x20' ROOF AREA)
NEW IMPERVIOUS SURFACE: PORTABLE BUILDING (ROOF AREA) - 1,576 S.F.
STAIRS, RAMPS AND LANDINGS - 270 S.F.
CONCRETE SIDEWALK - 318 S.F.
NEW ASPHALT PAVEMENT - 752 S.F.
EXISTING ASPHALT PAVEMENT - 789 S.F. (PREVIOUSLY CONSTRUCTED)
TOTAL - 4,133 S.F.
ESTIMATED EARTHWORK: 0 CY CUT
56 CY FILL
(FOR PERMITTING PURPOSES ONLY, THE CONTRACTOR SHALL PERFORM INDEPENDENT CALCULATIONS FOR BIDDING PURPOSES.)

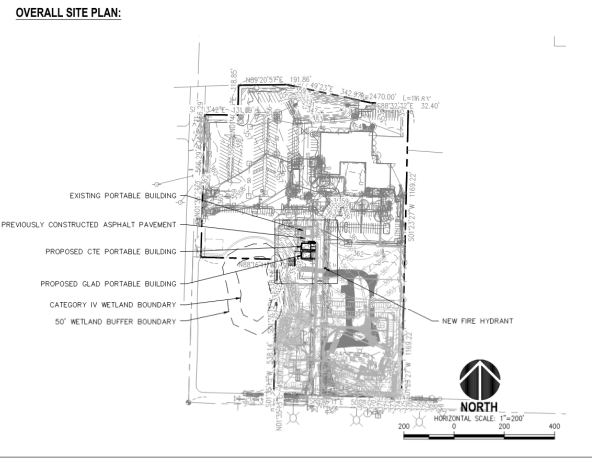
PREPARED FOR:
PUYALLUP SCHOOL DISTRICT NO. 3
323 12TH ST NW
PUYALLUP, WA 98371
CONTACT: MR. FRANKIE TOPASNA, (253) 435-6646

PREPARED BY:
SITTS & HILL ENGINEERS, INC.
CIVIL ■ STRUCTURAL ■ SURVEYING
4815 CENTER STREET, TACOMA, WA 98409 (253) 474-9449 FAX (253) 474-0153
CONTACT: RICK HAND, P.E.

INDEX OF DRAWINGS:

DRAWING No.	SHEET No.	TITLE - DESCRIPTION
00.0	SHEET 01 OF 09	COVER SHEET
00.1	SHEET 02 OF 09	GENERAL NOTES
01.0	SHEET 03 OF 09	DEMOLITION AND TEST PLAN
01.1	SHEET 04 OF 09	DEMOLITION AND TEST PLAN
02.0	SHEET 05 OF 09	SURFACING, LAYOUT, GRADING AND DRAINAGE PLAN
02.1	SHEET 06 OF 09	SURFACING, LAYOUT, GRADING AND DRAINAGE PLAN
03.0	SHEET 07 OF 09	WATER UTILITY PLAN
04.0	SHEET 08 OF 09	DETAILS
04.1	SHEET 09 OF 09	DETAILS

RECORD DRAWING
RECORD DRAWING INFORMATION IS PROVIDED BY STREAMLINE GENERAL CONSTRUCTION, LLC. RECORD DRAWING INFORMATION WAS REVIEWED BY E-HAND OF SITTS & HILL ENGINEERS AND THE INSTALLATION SUBSTANTIALLY CONFORMS TO APPROVED PLANS.



sh sitts & hill
CIVIL ■ STRUCTURAL ■ SURVEY
4815 CENTER STREET | TACOMA, WA 98409
PHONE (253) 474-9449 | FAX (253) 474-0153
WWW.SITTSANDHILL.COM
Project No: 18,980 Project Mgr: RCH
Proj. Engineer: VMS Proj. Drafter: VMS

PROJECT: PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTABLE
1501 39TH AVE SW, PUYALLUP, WA 98373

REVISIONS:
11-02-2020 PERMIT SET
01-14-2021 REVISED PERMIT SET
05-21-2021 RECORD DRAWING

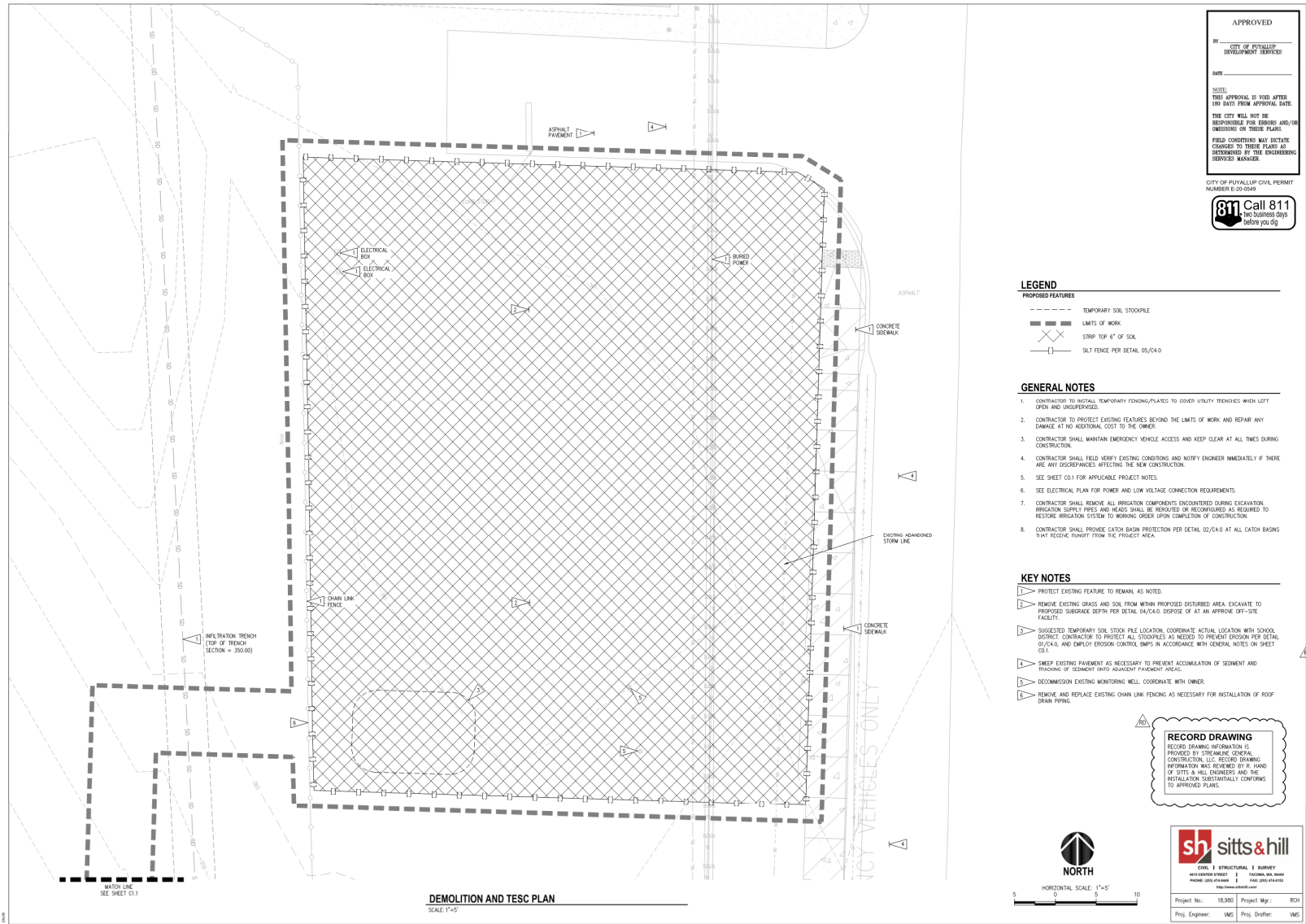
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TIME: 09:15:00.00
SCALE: AS SHOWN
DRAWN BY: VMS
CHECKED BY: VMS
COVER SHEET

BCRA CIVIL 01 OF 09

C0.0
PERMIT DRAWING

IF SHEET MEASURES LESS THAN 11X17, IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



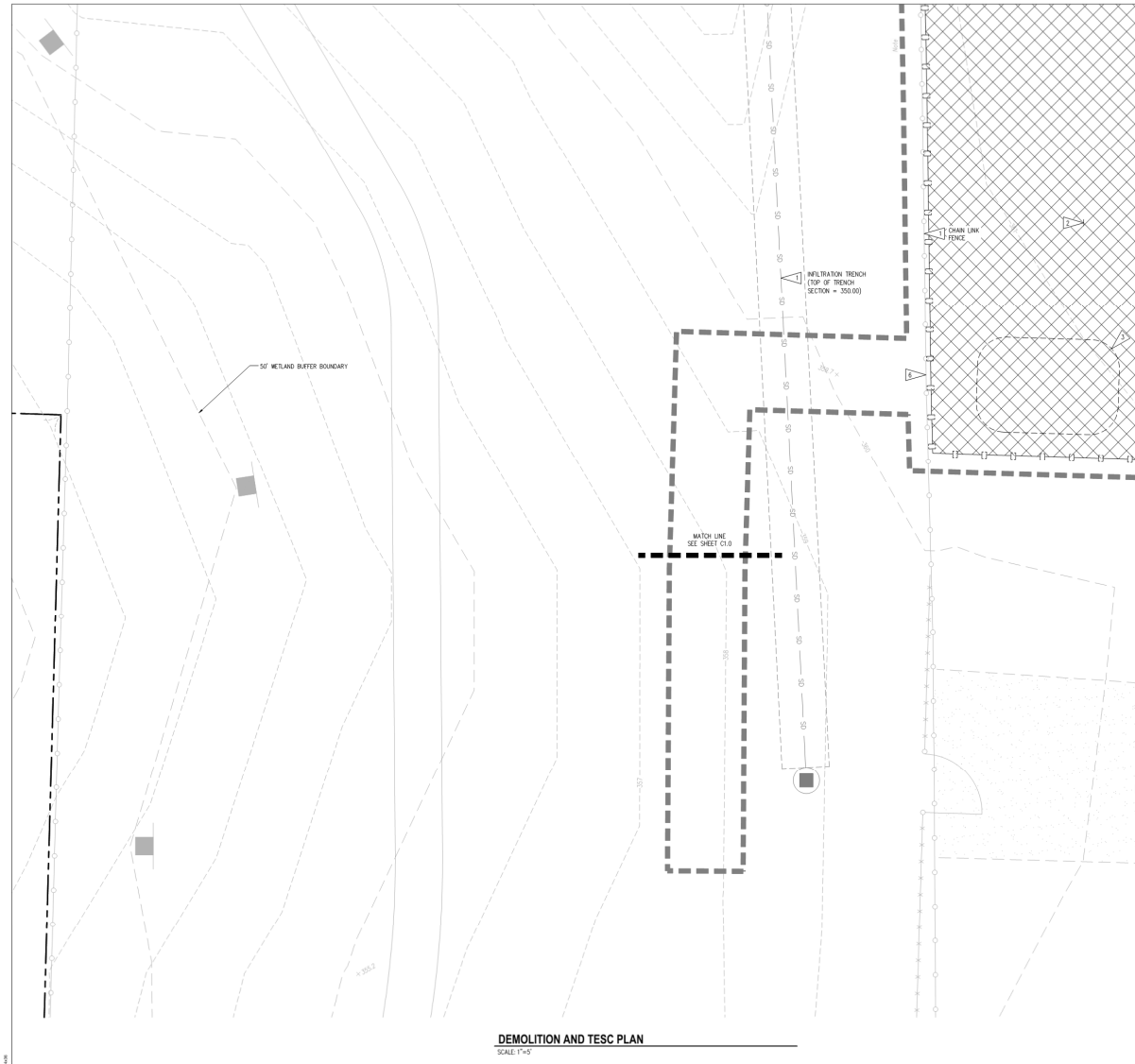
PROJECT: SCHOOL DISTRICT
PSD ADMIN PORTABLE
1501 35TH AVE SW, PUYALLUP, WA 98573

DATE:	11-02-2020
TIME:	10:09:20:00
SCALE:	20115.00:00
DESIGNER:	
CHECKER:	
APPROVER:	
SHEET NO.:	DEMOLITION AND TESC PLAN



C1.0
PERMIT DRAWING

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



APPROVED

BY: CITY OF PUYALLUP
DEVELOPMENT SERVICES

DATE: _____

NOTE:
THIS APPROVAL IS GOOD AFTER
THE DATE 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 ENGINEERING
SERVICES MANAGER.

CITY OF PUYALLUP CIVIL PERMIT
NUMBER E-20-0549

811 Call 811
WE DIGGERS GOES
BEFORE YOU GO



LEGEND

- PROPOSED FEATURES**
- TEMPORARY SOIL STOCKPILE
 - LIMITS OF WORK
 - STRIP TOP 6" OF SOIL
 - SALT FENCE PER DETAIL 05/04.0

GENERAL NOTES

1. CONTRACTOR TO INSTALL TEMPORARY FENCING/PLATES TO COVER UTILITY TRENCHES WHEN LEFT OPEN AND UNCOVERED.
2. CONTRACTOR TO PROTECT EXISTING FEATURES BEYOND THE LIMITS OF WORK AND REPAIR ANY DAMAGE AT NO ADDITIONAL COST TO THE OWNER.
3. CONTRACTOR SHALL MAINTAIN EMERGENCY VEHICLE ACCESS AND KEEP CLEAR AT ALL TIMES DURING CONSTRUCTION.
4. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS AND NOTIFY ENGINEER IMMEDIATELY IF THERE ARE ANY DISCREPANCIES AFFECTING THE NEW CONSTRUCTION.
5. SEE SHEET 031 FOR APPLICABLE PROJECT NOTES.
6. SEE ELECTRICAL PLAN FOR POWER AND LOW VOLTAGE CONNECTION REQUIREMENTS.
7. CONTRACTOR SHALL REMOVE ALL IRRIGATION COMPONENTS ENCOUNTERED DURING EXCAVATION. IRRIGATION SUPPLY PIPES AND HEADS SHALL BE REROUTED OR RECONFIGURED AS REQUIRED TO RESTORE IRRIGATION SYSTEM TO WORKING ORDER UPON COMPLETION OF CONSTRUCTION.
8. CONTRACTOR SHALL PROVIDE CATCH BASIN PROTECTION PER DETAIL 07/04.0 AT ALL CATCH BASINS THAT RECEIVE RUNOFF FROM THE PROJECT AREA.

KEY NOTES

- △ PROTECT EXISTING FEATURE TO REMAIN, AS NOTED.
- △ REMOVE EXISTING GRASS AND SOIL FROM WITHIN PROPOSED DISTURBED AREA. EXCAVATE TO PROPOSED SUBGRADE DEPTH PER DETAIL 04/04.0. DISPOSE OF AT AN APPROVE OFF-SITE FACILITY.
- △ SUGGESTED TEMPORARY SOIL STOCK PILE LOCATION. COORDINATE ACTUAL LOCATION WITH SCHOOL DISTRICT. CONTRACTOR TO PROTECT ALL STOCKPILES AS NEEDED TO PREVENT EROSION PER DETAIL 05/04.0, AND EMPLOY EROSION CONTROL BMP'S IN ACCORDANCE WITH GENERAL NOTES ON SHEET 03.1.
- △ NOT USED.
- △ NOT USED.
- △ REMOVE AND REPLACE EXISTING CHAIN LINK FENCING AS NECESSARY FOR INSTALLATION OF ROOF DRAIN PAVING.

RECORD DRAWING

BEFORE DRAWING INFORMATION IS PROVIDED BY STREAMLINE GENERAL CONSTRUCTION, LLC, RECORD DRAWING INFORMATION WAS REVIEWED BY R. HAND OF SITS & HILL ENGINEERS AND THE INSTALLATION SUBSTANTIALLY CONFORMS TO APPROVED PLANS.



s+h sits & hill

CIVIL | STRUCTURAL | SURVEY
4015 CENTER STREET | TACOMA, WA, 98403
PHONE: (253) 473-9900 | FAX: (253) 473-9901
WWW.SITSHILL.COM

Project No.: 18,980 Project Mgr.: RCH
Proj. Engineer: VMS Proj. Drafter: VMS

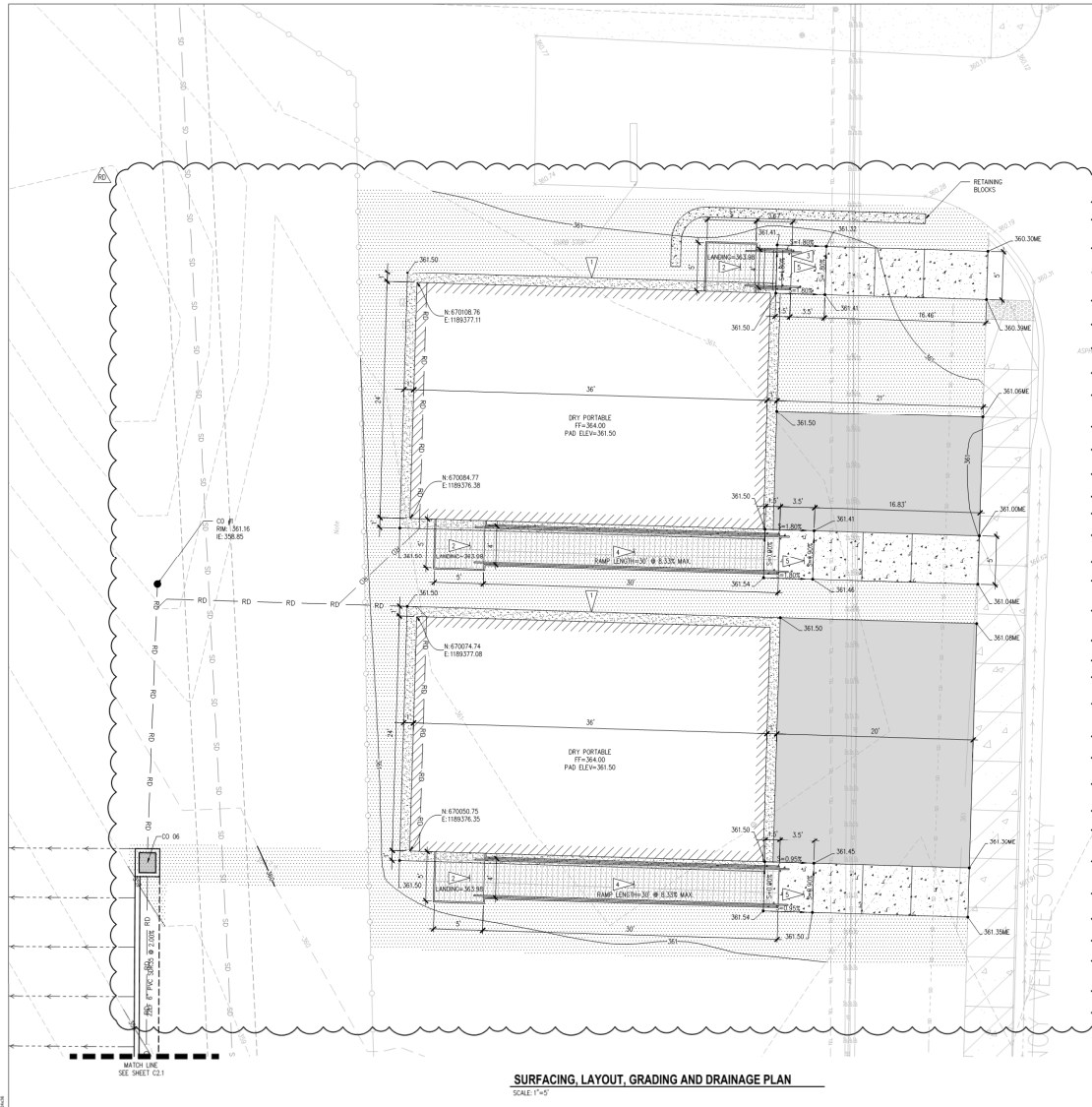
PROJECT: PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTABLE
1501 38TH AVE SW, PUYALLUP, WA 98372

NO.	DATE	DESCRIPTION
1	11-02-2020	PERMIT SET
2	07-14-2021	REVISED PERMIT SET
3	05-21-2021	RECORD DRAWING 1

BCRA 04 OF 09

C1.1
PERMIT DRAWING

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



RECORD DRAWING
 RECORD DRAWING INFORMATION IS PROVIDED BY DREAMLINE GENERAL CONSTRUCTION, LLC. RECORD DRAWING INFORMATION WAS REVIEWED BY R. HIND OF SITS & HILL ENGINEERS AND THE INSTALLATION SUBSTANTIALLY CONFORMS TO APPROVED PLANS.

APPROVED
 BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
 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 ENGINEERING SERVICES MANAGER.
 CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549
811 Call 811
 Two Business Days before you dig



LEGEND

PROPOSED FEATURES	ABBREVIATIONS
Gravel Pad with 4" of CSTC PER DETAIL 04/C4.0	FF FINISHED FLOOR
Concrete Sidewalk Pavement PER DETAIL 03/C4.0	DS DOWN SPOUT
Turfgrass Hydroseed Over Compost Amended Topsoil PER DETAIL 01.02.05B/C4.0	ME MATCH EXISTING
Pre-manufactured Metal Landings	
Asphalt Pavement PER DETAIL 06/C4.0	
MD HOSE DRAIN PIPING PER DETAIL 01/4.1	
Roof Drain Cleanout PER DETAIL 02/C4.1	
CB TYPE 1 CATCH BASIN	
361.45 SPOT ELEVATION	

- GENERAL NOTES**
- CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING UTILITY/COVERS BY ANY MEANS NECESSARY (SHOULDER METAL PLATES, ETC.) DURING PORTABLE INSTALLATION. DAMAGED SURFACE FEATURES OR UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS/HER OWNERS RISK TO THE MAXIMUM.
 - IT IS CRITICAL TO INSTALL THE GRAVEL PADS AND PROPOSED PORTABLE FINISHING FLOORS AT THE LOCATIONS SHOWN ON THIS PLAN SHEET.
 - CONTRACTOR TO PROVIDE STAKING OF BUILDING CORNERS FOR PLACEMENT OF PORTABLE. SEE NOTINGS AND LISTINGS ON THIS SHEET. COORDINATE WITH PUYALLUP SCHOOL DISTRICT AND ENGINEER WHEN THIS IS TO BE COMPLETED.
 - SEE ELECTRICAL FOR BURIED POWER AND COMMUNICATION CONDUIT AND TRENCH INSTALLATION REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PRE-MANUFACTURED METAL STAIRS AND LANDINGS PRIOR TO PLACEMENT OF PORTABLES AND CONCRETE LANDINGS.
 - APPROXIMATE ELEVATIONS NOTED. CONTRACTOR SHALL TAKE MEASUREMENT OF RELOCATED PORTABLES FROM TOP OF FINISHING TO FINISH FLOOR ELEVATION OF GRAVEL PAD AND CONCRETE LANDINGS SHALL BE SET BASED ON PROPOSED FINISH FLOOR ELEVATION MINUS THIS MEASUREMENT.
 - CONTRACTOR SHALL RESTORE WITH GRASS ALL SURFACES DAMAGED AS A RESULT OF CONSTRUCTION ACTIVITIES PER CITY OF PUYALLUP STANDARD DETAIL 01.02.05B OR SHEET C4.0.
 - CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION FOR ALL SEEDED SURFACES UNTIL VEGETATION IS ESTABLISHED.

- KEY NOTES**
- GRAVEL PAD DRIVEN SURFACE TOP CORNER PER WOOD 9-03(10) AS NECESSARY ASSUME 4" TO PREPARE PORTABLE PAD. GRADE PRIOR TO PLACEMENT OF PORTABLE TO ENSURE FLAT PAD. CONTACT PAD TO 95% MAX DRY DENSITY PRIOR TO AND AFTER PLACING CSTC. SEE DETAIL 04/C4.0.
 - PRE-MANUFACTURED METAL LANDING AT PRIMARY BUILDING DOORS, PER ARCHITECTURAL PLANS.
 - PRE-MANUFACTURED METAL STAIRS LEADING FROM METAL LANDING TO PROPOSED CONCRETE LANDING WITH FOUR (4) 1" FASCIES.
 - PRE-MANUFACTURED METAL RAMP LEADING FROM METAL LANDING TO PROPOSED CONCRETE LANDING.
 - CONCRETE LANDING AT BASE OF PROPOSED PRE-MANUFACTURED METAL STAIRS/RAMP. SEE DETAIL 03/C4.0.
 - DOWNSPOUT CONNECTION TO ROOF DRAIN LINES PER DETAIL 03/C4.1.



HORIZONTAL SCALE: 1"=4'
 0 5 10

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 CIVIL & STRUCTURAL & SURVEY AND DESIGN SERVICE | PUYALLUP, WA, USA
 PHONE 252.474.8448 | FAX 252.474.8525
 www.sitsandhill.com

Project No.: 18-980 Project Mgr.: RCH
 Proj. Engineer: VMS Proj. Drafter: VMS

PROJECT: PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTABLE
 1501 39TH AVE SW, PUYALLUP, WA 98973

DATE	DESCRIPTION
11-02-2020	PERMIT SET
01-14-2021	REVISED PERMIT SET
05-21-2021	RECORD DRAWING
05-21-2021	RECORD DRAWING SET

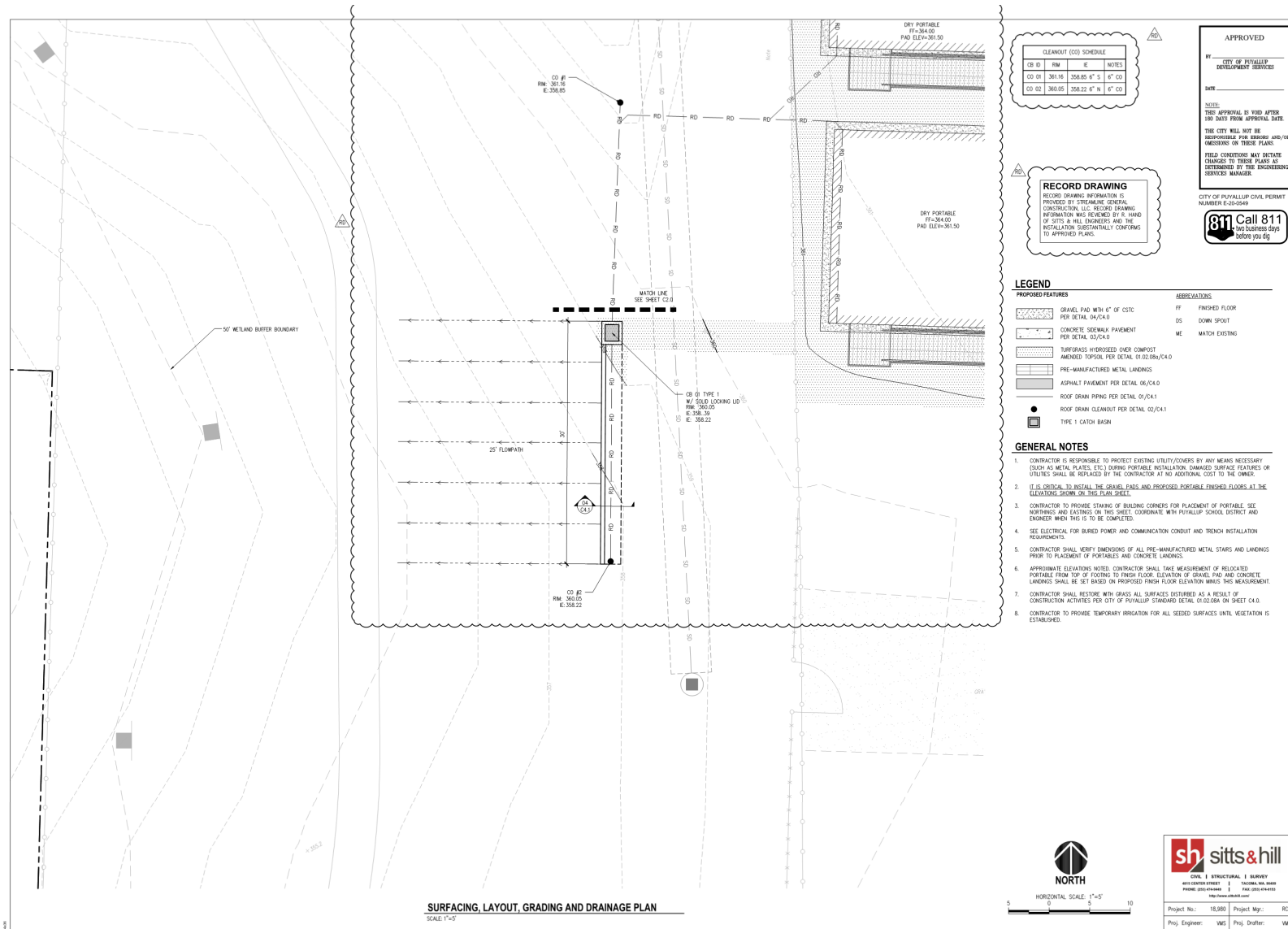
DATE: 10/26/2020
 DRAWN BY: VMS
 2018.00.00
 PROJECT: 18-980
 SHEET: SURFACING, LAYOUT, GRADING AND DRAINAGE PLAN



C2.0
 PERMIT DRAWING

IF SHEET MEASURES LESS THAN 1000", IT IS A REDUCED PRINT. REDUCE SCALE ACCORDINGLY.

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



CLEANOUT (CO) SCHEDULE

CO ID	RM	E	NOTES
CO 01	361.16	358.85 4' S 4' CO	
CO 02	360.05	358.22 4' N 4' CO	

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APPROVED
 BY: CITY OF PUYALLUP DEVELOPMENT SERVICES
 DATE: _____

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

CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549

811 Call 811
 two business days before you dig

LEGEND

PROPOSED FEATURES	ABBREVIATIONS
Gravel Pad with 6" of CSTC per DETAIL 04/C4.0	FF FINISHED FLOOR
Concrete Sidewalk Pavement per DETAIL 02/C4.0	DS DOWN SPOUT
Turfgrass Hydroseed over Compost Amended Topsoil per DETAIL 02/08a/C4.0	WE MATCH EXISTING
Pre-manufactured Metal Landings	
Asphalt Pavement per DETAIL 06/C4.0	
Roof Drain Piping per DETAIL 03/C4.1	
Roof Drain Cleanout per DETAIL 03/C4.1	
Type 1 Catch Basin	

- GENERAL NOTES**
- CONTRACTOR IS RESPONSIBLE TO PROTECT EXISTING UTILITY/COVERS BY ANY MEANS NECESSARY (SUCH AS METAL PLATES, ETC.) DURING PORTABLE INSTALLATION. DAMAGED SURFACE FEATURES OR UTILITIES SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
 - IT IS CRITICAL TO INSTALL THE GRAVEL PADS AND PROPOSED PORTABLE FINISHED FLOORS AT THE ELEVATIONS SHOWN ON THESE PLAN SHEETS.
 - CONTRACTOR TO PROVIDE STAKING OF BUILDING CORNERS FOR PLACEMENT OF PORTABLE. SEE NORTHINGS AND EASTINGS ON THIS SHEET. COORDINATE WITH PUYALLUP SCHOOL DISTRICT AND ENGINEER WHEN THIS IS TO BE COMPLETED.
 - SEE ELECTRICAL FOR BURIED POWER AND COMMUNICATION CONDUIT AND TRENCH INSTALLATION REQUIREMENTS.
 - CONTRACTOR SHALL VERIFY DIMENSIONS OF ALL PRE-MANUFACTURED METAL STAIRS AND LANDINGS PRIOR TO PLACEMENT OF PORTABLES AND CONCRETE LANDINGS.
 - APPROXIMATE ELEVATIONS NOTED. CONTRACTOR SHALL TAKE MEASUREMENT OF RELOCATED PORTABLE FROM TOP OF FOOTING TO FINISH FLOOR. ELEVATION OF GRAVEL PAD AND CONCRETE LANDINGS SHALL BE SET BASED ON PROPOSED FINISH FLOOR ELEVATION MINUS THIS MEASUREMENT.
 - CONTRACTOR SHALL RESTORE WITH GRASS ALL SURFACES DISTURBED AS A RESULT OF CONSTRUCTION ACTIVITIES PER CITY OF PUYALLUP STANDARD DETAIL 02/02.08a ON SHEET C4.0.
 - CONTRACTOR TO PROVIDE TEMPORARY IRRIGATION FOR ALL SEEDED SURFACES UNTIL VEGETATION IS ESTABLISHED.



PROJECT: PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTABLE
 1001 39TH AVE SW, PUYALLUP, WA 98773

REVISIONS

NO.	DATE	DESCRIPTION
1	11-02-2020	PERMIT SET
2	01-14-2021	REVISED PERMIT SET
3	03-21-2021	RECORD DRAWING SET

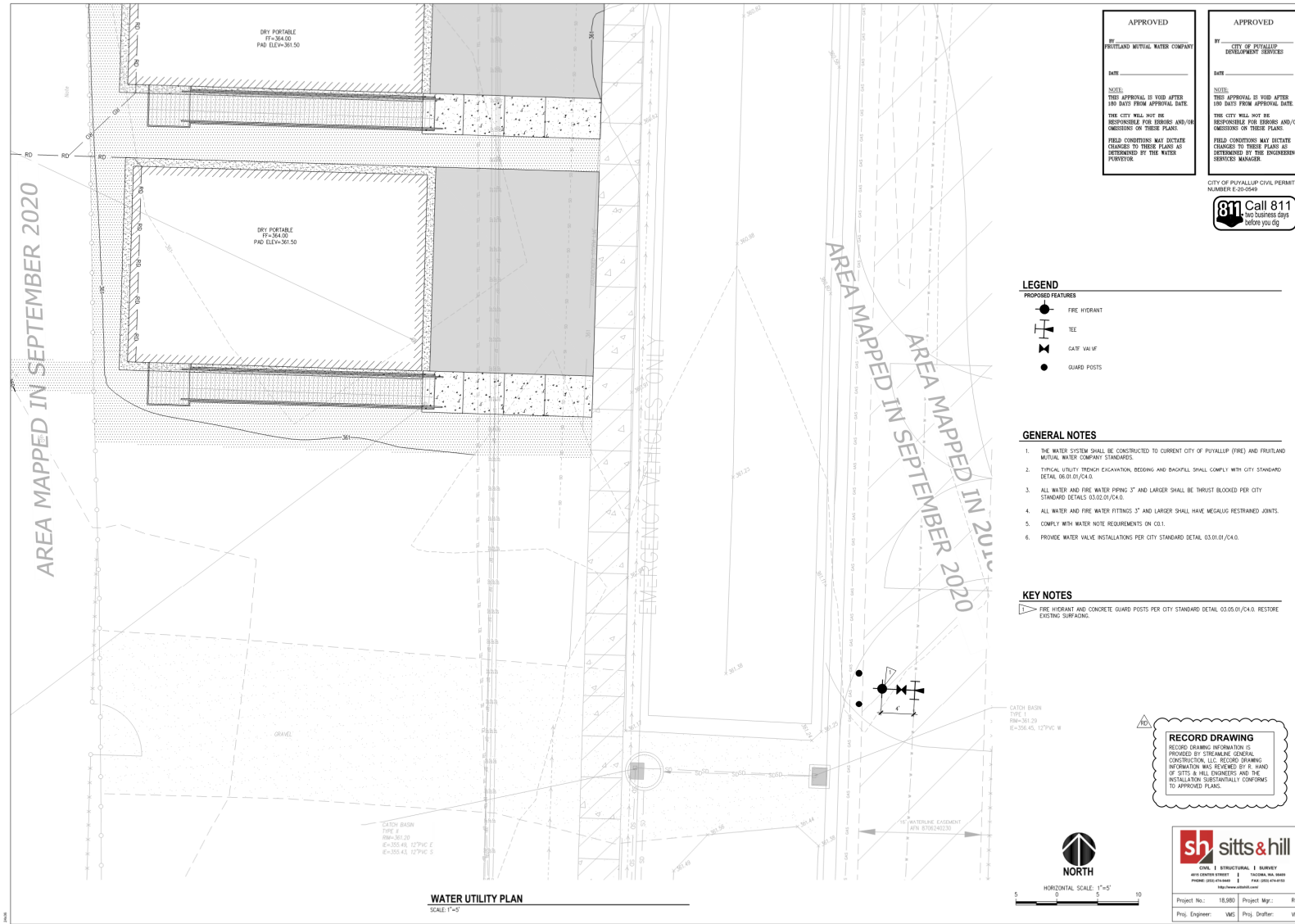


Project No.: 18-050 Project Mgr.: RDN
 Proj. Engineer: WMS Proj. Drafter: WMS



C2.1
 PERMIT DRAWING

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



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1-203-827-2287 F: 203-827-4395 WWW.BCRAORWA.COM
1100 PACIFIC AVENUE, SUITE 2000, BACON, WA 98008

CITY OF PUYALLUP
1501 13TH AVE SW, PUYALLUP, WA 98073

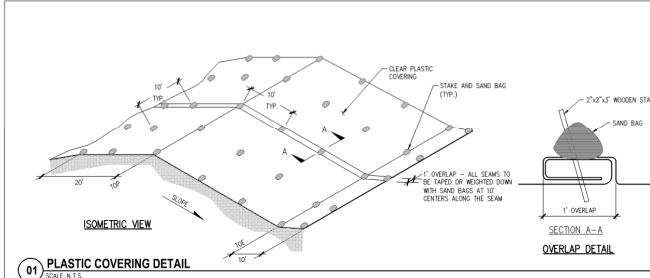
PSD ADMIN PORTABLE
1501 13TH AVE SW, PUYALLUP, WA 98073

11-02-2020 PERMIT SET
03-14-2021 REVISED PERMIT SET
05-13-2021 RECORD DRAWING SET

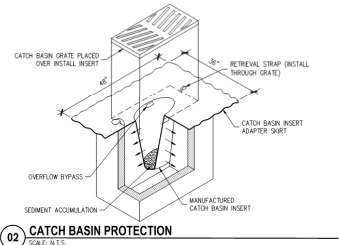
11-02-2020
03-02-2020
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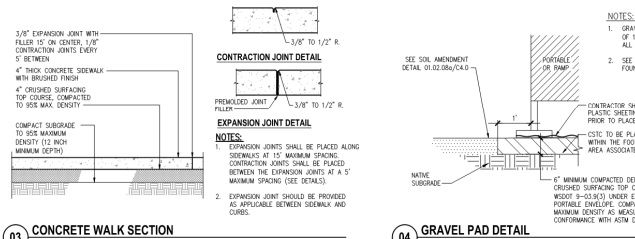
Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



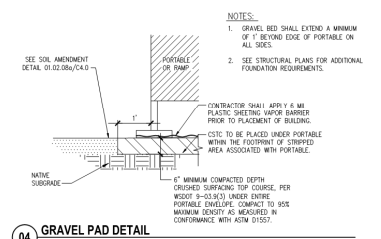
01 PLASTIC COVERING DETAIL
SCALE: N.T.S.



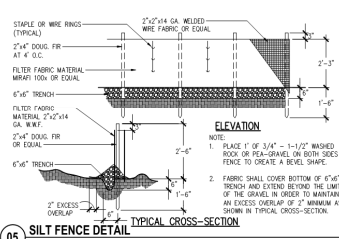
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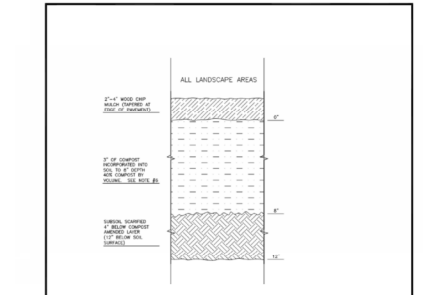
03 CONCRETE WALK SECTION
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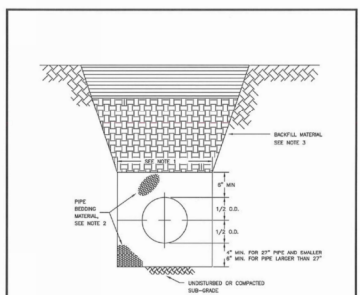
04 GRAVEL PAD DETAIL
SCALE: N.T.S.



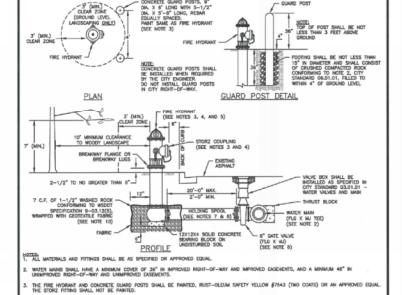
05 SILT FENCE DETAIL
SCALE: N.T.S.



CITY OF PUYALLUP		SOIL AMENDMENT AND DEPTH	
DATE: 01.02.2024	PROJECT: 18-880	SCALE: N.T.S.	PROJECT MGR: RCH
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 01.02.2024	PROJECT MGR: RCH
CITY OF PUYALLUP OFFICE		PROJECT MGR: RCH	



CITY OF PUYALLUP		PIPE TRENCHING BEDDING AND BACKFILL	
DATE: 06.01.2021	PROJECT: 18-880	SCALE: N.T.S.	PROJECT MGR: RCH
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 06.01.2021	PROJECT MGR: RCH
CITY OF PUYALLUP OFFICE		PROJECT MGR: RCH	



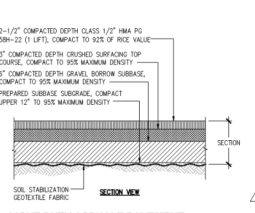
CITY OF PUYALLUP		FIRE HYDRANT ASSEMBLY	
DATE: 03.05.2021	PROJECT: 18-880	SCALE: N.T.S.	PROJECT MGR: RCH
DESIGNED BY: [Signature]	CHECKED BY: [Signature]	DATE: 03.05.2021	PROJECT MGR: RCH
CITY OF PUYALLUP OFFICE		PROJECT MGR: RCH	

<p>APPROVED</p> <p>BY: [Signature]</p> <p>DATE: [Date]</p> <p>NOTES: THIS APPROVAL IS VOID AFTER 90 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 ENGINEERING SUPERVISOR.</p>	<p>APPROVED</p> <p>BY: [Signature]</p> <p>DATE: [Date]</p> <p>NOTES: THIS APPROVAL IS VOID AFTER 90 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 ENGINEERING SUPERVISOR.</p>
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Call 811
No business days before you dig

- SILT FENCE NOTES**
1. FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL AND CUT TO THE LENGTH OF THE BARBER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPUNCE TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6 INCH OVERLAP AND SECURED AT BOTH ENDS TO POSTS.
 2. POSTS SHALL BE SPACED A MAXIMUM OF 4 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
 3. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND SPLOUSE FROM THE BARBER. THIS TRENCH SHALL BE BACKFILLED WITH WASHED GRAVEL.
 4. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. THE WIRE OR ROD STAPLE THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXCEED MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
 5. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIED TO THE FENCE AND 30 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 24 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
 6. WHEN EXTRA-STRENGTH FILTER FABRIC AND CLOSER POST SPACING IS USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH CASE, THE FILTER FABRIC IS STAPLED OR WIED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF ABOVE NOTES APPLYING.
 7. FILTER FABRIC FENCES SHALL NOT BE REMOVED BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
 8. FILTER FABRIC FENCES SHALL BE INSTALLED IMMEDIATELY AFTER CLOSURE BARFALL AND AT LEAST DAILY DURING PROPOSED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
 9. SILT FENCES WILL BE INSTALLED PARALLEL TO ANY SLOPE CONTOURS.



06 LIGHT DUTY ASPHALT PAVEMENT
SCALE: N.T.S.

RECORD DRAWING
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PROJECT: PUYALLUP SCHOOL DISTRICT
PSD ADMIN PORTABLE
1501 39TH AVE SW PUYALLUP, WA 98073

11-02-2020 PERMIT SET
01-14-2021 REVISED PERMIT SET
05-21-2021 RECORD DRAWING SET

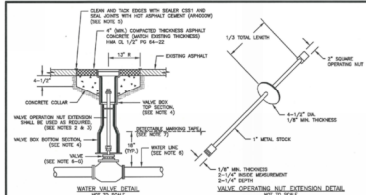
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TIME: 2015:00:00
SCALE: N.T.S.
PROJECT MGR: RCH
DESIGNED BY: [Signature]
CHECKED BY: [Signature]
DATE: 03.05.2021
PROJECT MGR: RCH

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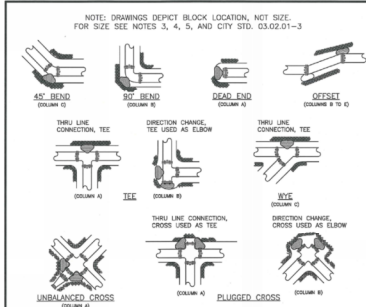
PERMIT DRAWING

Puyallup School District – CTE & GLAD Portables Operation and Maintenance Manual



- NOTES:**
1. VALVE SHALL HAVE A MINIMUM EDGE OF 1/2" THICK PLATE, MADE IN APPROVED HOT-ROLLED AND SUPPLEMENTED WITH A MINIMUM OF 4" APPROVED REINFORCING AND CONCRETE ENCASING.
 2. VALVE OPERATING NUT EXTENSION SHALL BE MADE OF STEEL, BORED AS NOTED AND FINISHED WITH TWO COATS OF METAL PAINT.
 3. VALVE OPERATING NUT EXTENSION SHALL BE MADE OF STEEL, BORED AS NOTED AND FINISHED WITH TWO COATS OF METAL PAINT.
 4. VALVE OPERATING NUT EXTENSION SHALL BE MADE OF STEEL, BORED AS NOTED AND FINISHED WITH TWO COATS OF METAL PAINT.
 5. VALVE OPERATING NUT EXTENSION SHALL BE MADE OF STEEL, BORED AS NOTED AND FINISHED WITH TWO COATS OF METAL PAINT.
 6. VALVE OPERATING NUT EXTENSION SHALL BE MADE OF STEEL, BORED AS NOTED AND FINISHED WITH TWO COATS OF METAL PAINT.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
WATER VALVES AND MAINS
03.02.01-1



- NOTE: DRAWINGS DEPICT BLOCK LOCATION, NOT SIZE. FOR SIZE SEE NOTES 3, 4, 5, AND CITY STD. 03.02.01-3**
- NOTES:**
1. THE FOLLOWING PRECAUTIONS MUST BE OBSERVED WHEN CONSTRUCTING THRUST BLOCKS:
 2. BLOCKS MUST BE PLACED OR PLACED AGAINST UNWEIGHED SOIL.
 3. THE PIPE FITTINGS AND BOLTS MUST BE ACCESSIBLE. UNFIT IN PLACING THESE POLYMER CONCRETE BLOCKING.
 4. CONCRETE SHOULD BE CURED FOR AT LEAST 4 DAYS AND SHOULD HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI AT 28 DAYS.
 5. REINFORCING JOINTS SHALL BE REINFORCED IN ADDITION TO CONCRETE THRUST BLOCKING.
 6. BLOCKS MUST BE PLACED TO COMPENSATE FOR THE DIRECTION OF THE PRESSURE OF THE PRESSURE THRUST FORCE.
 7. ALL PIPE SHALL BE PROPERLY BEADED. SEE CITY OF PUYALLUP STANDARD BEADING DETAIL NO. 03.01.01.
 8. CONTRACTOR TO PROVIDE BLOCKING AGAINST TO INTERFERE FULL TEST PRESSURE.
 9. BLOCKS MUST BE PLACED TO WITHSTAND PRESSURE WITHIN 10% SQUARE FEET OF CONCRETE TO DETERMINE LOAD.
 10. BEADING SURFACE AREA TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURES AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
HORIZONTAL THRUST BLOCKING
03.02.01-1

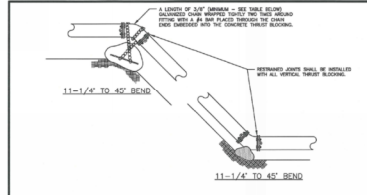


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIAMETER (INCHES)	PIPE PRESSURE (PSI)	MIN. WALL THICKNESS (INCHES)	CONCRETE (CY)	REBAR (LBS)	MIN. BEND (INCHES)	MIN. BENDMENT (INCHES)
4"	200	11.88	4	1.6	3/8"	17"
		12.25	10	3.2		
		12.62	20	6.4		
6"	200	11.88	14	5.4	3/8"	17"
		12.25	27	10.8		
		12.62	54	21.6		
8"	200	11.88	20	7.2	3/8"	17"
		12.25	40	14.4		
		12.62	80	28.8		
10"	200	11.88	28	10.8	3/8"	17"
		12.25	56	21.6		
		12.62	112	43.2		
12"	200	11.88	36	14.4	3/8"	17"
		12.25	72	28.8		
		12.62	144	57.6		
14"	200	11.88	42	17.6	3/8"	17"
		12.25	84	35.2		
		12.62	168	70.4		
16"	200	11.88	48	20.4	3/8"	17"
		12.25	96	40.8		
		12.62	192	81.6		

ALL BENDS ON CITY STANDARD BLOCKS SHALL BE TO THIS DETAIL. SEE CITY STANDARD BLOCKS FOR THE APPLICABLE DIMENSIONS.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
VERTICAL THRUST BLOCKING
03.02.01-2

TABLE 2: THRUST AT FITTINGS AT 200 PSI

PIPE SIZE	PIPE PRESSURE (PSI)	A	B	C	D	E	F
4"	200	3,142	4,440	4,440	1,323	893	11,077
6"	200	5,091	6,880	6,880	2,040	1,380	17,140
8"	200	7,080	9,770	9,770	2,840	1,840	23,110
10"	200	9,070	12,460	12,460	3,640	2,340	29,080
12"	200	11,060	15,150	15,150	4,440	2,840	35,050
14"	200	13,050	17,840	17,840	5,240	3,440	41,020
16"	200	15,040	20,530	20,530	6,040	4,040	47,000

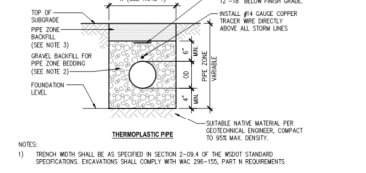
TABLE 3: BEARING VALUE OF SOIL

SOIL TYPE	SAFE BEARING LOAD (LB/SQ FT)
GRAVEL	5,000
GRAVEL SAND	3,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL, COMPACTED WITH SLAY	4,000
HARD SHALE	10,000

SEE CITY STANDARDS 03.02.01-1 AND 03.02.01-2 FOR ADDITIONAL INFORMATION.

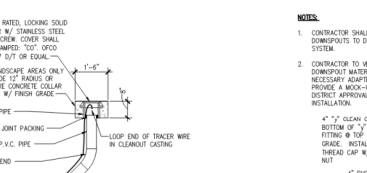
- NOTES:**
1. TO DETERMINE THRUST AT PRESSURES OTHER THAN 200 PSI, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.
 2. THRUST AT 200 PSI - BEARING LOAD.
 3. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SQ FT), DIVIDE THE BEARING VALUE OF SOIL BY THE BEARING LOAD.
 4. BEARING VALUE OF SOIL.
 5. FOR SAND AND GRAVEL, BEARING VALUE FROM TABLE 3 IS 3,000 LB/SQ FT.
 6. MULTIPLY LB/SQ FT x 144 IN²/SQ FT = LB/IN².
 7. CONTRACTOR TO PROVIDE BLOCKING AGAINST TO INTERFERE FULL TEST PRESSURE.
 8. BEARING SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.
 9. NO WATER SHALL BE ALLOWED TO ENTER THE TRENCH. SAND AND GRAVEL SHALL BE BACKFILLED AGAINST A RESTRICTED MECHANICAL JOINT SHALL BE USED.

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
THRUST BLOCKING TABLE
03.02.01-3



- NOTES:**
1. TRENCH WIDTH SHALL BE 6" WIDER IN SECTION 2-284 OF THE WOODS STANDARD SPECIFICATIONS EXCEPT SHALL COMPLY WITH WAC 206-106-101 PART 1 REQUIREMENTS.
 2. GRAVEL BACKFILL FOR PIPE ZONE BEDDING SHALL BE IN ACCORDANCE WITH WOODS STANDARD SPECIFICATIONS SECTION 9-03.13(3) FOR DUCTILE IRON AND PEA GRAVEL FOR THERMOPLASTIC PIPE EXCEPT FOR FOOTING DRAIN PIPE.
 3. PIPE ZONE BACKFILL SHALL BE NATIVE SOIL IN ACCORDANCE WITH SPECIFICATION REQUIREMENTS.

01 PIPE ZONE BEDDING AND BACKFILL
SCALE: N.T.S.



- NOTES:**
1. CONTRACTOR SHALL CONNECT DOWNSPOUTS TO DOWNPOUT COLLECTOR SYSTEM.
 2. CONTRACTOR TO VERIFY EXISTING DOWNPOUT MATERIAL TYPE AND PROVIDE NECESSARY ADAPTERS AS NECESSARY. PROVIDE A MATCH-UP FOR SCHOOL DISTRICT APPROVAL PRIOR TO INSTALLATION.
 3. 4" P.V.C. CLEAN OUT. LOCATE BOTTOM OF 4" CLEAN OUT FITTING @ TOP OF FRESH GRADE. INSTALL 4" MALE THREAD CAP W/ 1/2" SQUARE NUT.
 4. 4" P.V.C. SPOOL LENGTH MINUS 1/2".
 5. 4" P.V.C. W/ 4" DOWNPOUT COLLECTOR.

02 6" STORM DRAIN CLEAN-OUT
SCALE: N.T.S.

APPROVED

BY: PERIANT MUTUAL WATER COMPANY

DATE: _____

APPROVED

BY: CITY OF PUYALLUP DEVELOPMENT SERVICES

DATE: _____

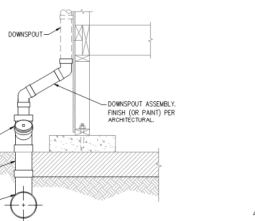
NEED: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE. THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE PLANS.

FIELD CONDITIONS MAY INDICATE CHANGES TO THESE PLANS AS DETERMINED BY THE ENGINEERING SERVICES MANAGER. FURTHER.

CITY OF PUYALLUP CIVIL PERMIT NUMBER E-20-0549

811 Call 811
before you dig

CITY OF PUYALLUP
OFFICE OF THE CITY ENGINEER
PSD ADMIN PORTABLE
03.02.01-2



03 PORTABLE DOWNPOUT ASSEMBLY
SCALE: N.T.S.

RECORD DRAWING

RECORD DRAWING INFORMATION IS PROVIDED BY THE ENGINEER. GENERAL CONTRACTOR SHALL VERIFY DRAWING INFORMATION AND DELIVER IT TO THE HAND OF SITE ENGINEERS AND THE RECORDS ADMINISTRATOR IN ACCORDANCE WITH THE RECORDS ADMINISTRATION ACT.

sh **sitts & hill**

CIVIL & STRUCTURAL ENGINEERING

11100 10th Ave S, Tacoma, WA 98406
PHONE: 252-4444 FAX: 252-4444
http://www.shsitts.com

Project No: 18,890 Project Mgr.: RCH
Proj. Engineer: WMS Proj. Drafter: WMS



PROJECT: SCHOOL DISTRICT PSD ADMIN PORTABLE

11.02.2020 PERMIT SET
11.14.2021 REVISED PERMIT SET
03.21.2024 RECORD DRAWING SET

DATE: 2015.05.00
PROJECT: 2015.05.00
DRAWN: WMS
CHECKED: WMS
SCALE: N.T.S.

BCRA

C4.1

PERMIT DRAWING

6.3 Appendix C – Inspection and Maintenance Forms

Annual Inspection Report
City of Puyallup - Stormwater BMP Facilities Inspection and Maintenance Log

Facility Name PSD South Hill Logistics Support Campus CTE & GLAD Portables CITY PERMIT NUMBER E-20-0549
 Address 1501 39th Ave SW, Puyallup, WA 98373
 Begin Date June 2021 End Date _____

Date	BMP ID#	BMP Facility Description	Inspected by:	Cause for Inspection	Exceptions Noted	Comments and Actions Taken
	1	Building Roof Gutters				
	2	Roof Drain Pipelines				
	3	Catch Basins				
	4	Dispersion Trench				
	5	Landscaping				

Instructions:

Record all inspections and maintenance for all treatment BMPs on this form. Use additional log sheets and/or attach extended comments or documentation as necessary. Submit a copy of the completed log with the Annual Independent Inspectors’ Report to the City, and start a new log at that time.

BMP ID# — Always use ID# from the Operation and Maintenance Manual.

Inspected by — Note all inspections and maintenance on this form, including the required independent annual inspection.

Cause for inspection — Note if the inspection is routine, pre-rainy-season, post-storm, annual, or in response to a noted problem or complaint.

Exceptions noted — Note any condition that requires correction or indicates a need for maintenance.

Comments and actions taken — Describe any maintenance done and need for follow-up.

Return Form to: Stormwater Engineer/City of Puyallup
 333 South Meridian
 Puyallup, WA 98371

Annual Inspection Report
City of Puyallup - Stormwater BMP Facilities Inspection and Maintenance Log

CITY PERMIT
NUMBER E-20-0549

Facility Name PSD South Hill Logistics Support Campus CTE & GLAD Portables

Date	BMP ID#	BMP Facility Description	Inspected by:	Cause for Inspection	Exceptions Noted	Comments and Actions Taken

