THE NE 1/4 OF SECTION 33, TOWNSHIP 20 NORTH, RANGE 4 EAST, W.M.

WASHINGTON STATE FAIR
SILLYVILLE TRAIN EXPANSION

CIVIL CONSTRUCTION PERMIT

PRCCP2022060

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

Mark-up Legend
- Building Review
- Engineering Review
- Fire Review
- Planning Review
- Public Works Review
- Traffic Review

APPLICANT
WASHINGTON STATE FAIR
110 9TH AVENUE SW
PUYALLUP, WA 98371
(253) 841-5356
CONTACT: RENEE MCCLAIN, CFO

CIVIL ENGINEER
JMJ TEAM
905 MAIN ST SUITE. 200
SUMNER, WA 98390
(206) 596-2020
CONTACT: JUSTIN JONES, PE

SURVEYOR
PARAMETRIX – PUYALLUP OFFICE
1019 39th AVENUE SE
PUYALLUP, WA 98374
(360) 459-3609
CONTACT: KATHLEEN CASSOU, PLS

SITE INFORMATION:

SITE ADDRESS:	110 9th AVENUE SW, PUYALLUP, WA 98371
TAX PARCEL NUMBER(S):	042033-1134
ZONING:	FAIR
TOTAL PROJECT AREA:	0.54 ACRES

CONTROL INFORMATION:

BASIS OF BEARING:	HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(91), WASHINGTON STATE PLANE SOUTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ. POINT DESIGNATION: GP27512-18AZ NORTHING: 678467.150 EASTING: 1194300.731
VERTICAL DATUM:	VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ Conversion from NGVD29 to NAVD88: NAVD88=NGVD29+3.6 POINT DESIGNATION: GP27512-18AZ ELEVATION: 77.073
SURVEY DATE:	JANUARY, 2022

LEGAL DESCRIPTION:

ABBREVIATED: Ptn NE1/4, 33-20-4

SERVICE PROVIDERS:

WATER:	CITY OF PUYALLUP
SEWER:	CITY OF PUYALLUP
POWER:	PUGET SOUND ENERGY
GAS:	PUGET SOUND ENERGY
COMMUNICATIONS:	CENTURYLINK
FIRE PROTECTION:	CENTRAL PIERCE FIRE & RESCUE

110 9th Ave SW, Puyallup, WA 98371

Vicinity Map
Scale: 1" = 1/4 Mile

Puyallup Fair Map
Scale: 1" = 400'

INDEX TO DRAWINGS

Project Disturbed Area

Existing Surfaces		
Surface	Area (sf)	Area (ac)
Landscaping	4,169	0.096
Gravel	8,987	0.206
Asphalt	4,021	0.092
Ballast	853	0.020
Total	18,030	0.414

Proposed Surfaces		
Surface	Area (sf)	Area (ac)
Landscaping	112	0.003
Gravel	1,593	0.037
Asphalt	854	0.020
Permeable Asphalt	7,039	0.162
Ballast	8,432	0.194
Total	18,030	0.414

Project Cut and Fill Volumes

Cut	
Surface	Vol. (cyd)
Proposed Path	297
Proposed Ballast	144
Porposed Gravel	37
Porposed Landscaping	2
Total	480

Fill	
Surface	Vol. (cyd)
Proposed Path	216
Proposed Ballast	133
Proposed Gravel	34
Proposed Landscaping	4
Total	387

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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

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UTILITIES UNDERGROUND LOCATION CENTER

Owner/Developer:
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Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
JMJ TEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED
PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
1	06/07/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY:
DESIGN BY: JJ
PROJ NO: 1507-002-08
DATE: July 08, 2022
SHEET NAME: Cover Sheet
DWG. C1-001
01 OF 23

File: 1507002-008-Cv.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 22-Jun-22 2:50:08pm

General Plan Notes

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the approved engineering plans, representatives from all applicable utility companies, the project owner and appropriate city staff. Contact Engineering Services at (253-841-5568) to schedule the meeting. The contractor is responsible to have their own set of approved plans at the meeting.

2. After completion of all items shown on these plans and before acceptance of the project the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revision made to these plans must be reviewed and approved by the developer's engineer and the City prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. Any structure and/or obstruction that requires removal or relocation relating to this project shall be done so at the developer's expense.

8. Locations of existing utilities are approximate. It shall be the contractor's responsibility to determine the true elevations and locations of hidden utilities. All visible items shall be the engineer's responsibility.

9. The contractor shall install, replace, or relocate all signs, as shown on the plans or as affected by construction, per City Standards.

10. Power, street light, cable, and telephone lines shall be in a trench located within a 10-foot utility easement adjacent to public right-of-way. Right-of-way crossings shall have a minimum horizontal separation from other utilities (sewer, water, and storm) of 5 feet.

11. All construction surveying for extensions of public facilities shall be done under the direction of a Washington State licensed land surveyor or a Washington State licensed professional civil engineer.

12. During construction, all public streets adjacent to this project shall be kept clean of all material deposits resulting from on-site construction, and existing structures shall be protected as directed by the City.

13. Certified record drawings are required prior to project acceptance.

14. A NPDES Stormwater General Permit may be required by the Department of Ecology for this project. For information contact the Department of Ecology, Southwest Region Office as (360) 407-6300.

15. Any disturbance or damage to Critical Areas and associated buffers, or significant trees designated for preservation and protection shall be mitigated in accordance with a Mitigation Plan reviewed and approved by the City's Planning Division. Preparation and implementation of the Mitigation Plan shall be at the developer's expense.

Stormwater Notes

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.

2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revisions made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. Any structure and/or obstruction which require removal or relocation relating to this project, shall be done so at the developer's expense.

8. During construction, all existing and newly installed drainage structures shall be protected from sediments.

9. All storm manholes shall conform to City Standard Detail No. 02.01.01. Flow control manhole/oil water separator shall conform to City Standard Detail No. 02.01.06 and 02.01.07.

10. Manhole ring and cover shall conform to City Standard Detail 06.01.02.

11. Catch basins Type I shall conform to City Standard Detail No.02.01.02 and 02.01.03 and shall be used only for depths less than 5 feet from top of the grate to the invert of the storm pipe.

12. Catch basins Type II shall conform to City Standard Detail No.02.01.04 and shall be used for depths greater than 5 feet from top of the grate to the invert of the storm pipe.

13. Cast iron or ductile iron frame and grate shall conform to City Standard Detail No.02.01.05. Grate shall be marked with "drains to stream". Solid catch basin lids (square unless noted as round) shall conform to WSDOT Standard Plan B-30.20-04 (Olympic Foundry No. SM60 or equal). Vaned grates shall conform to WSDOT Standard Plan B-30.30-03 (Olympic Foundry No. SM60V or equal).

14. Stormwater pipe shall be only PVC, concrete, ductile iron, or dual walled Polypropylene pipe.
    a. The use of any other type shall be reviewed and approved by the Engineering Services Staff prior to installation.
    b. PVC pipe shall be per ASTM D3034, SDR 35 for pipe size 15-inch and smaller and F679 for pipe sizes 18 to 27 inch. Minimum cover on PVC pipe shall be 3.0 feet.
    c. Concrete pipe shall conform to the WSDOT Standard Specifications for concrete underdrain pipe. Minimum cover on concrete pipe shall not less than 3.0 feet.
    d. Ductile iron pipe shall be Class 50, conforming to AWWA C151. Minimum cover on ductile iron pipe shall be 1.0 foot.
    e. Polypropylene Pipe (PP) shall be dual walled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(1). 12-inch through 30-inch pipe shall meet or exceed ASTM F2736 and AASHTO M330, Type S, or Type D. 36-inch through 60-inch pipe shall meet or exceed ASTM F2881 and AASHTO M330, Type S, or Type D. Testing shall be per ASTM F1417. Minimum cover over Polypropylene pipe shall be 3-feet.

15. Trenching, bedding, and backfill for pipe shall conform to City Standard Detail No. 06.01.01.

16. Storm pipe shall be a minimum of 10 feet away from building foundations and/or roof lines.

17. All storm drain mains shall be tested and inspected for acceptance as outlined in Section 406 of the City of Puyallup Sanitary Sewer System Standards.

18. All temporary sedimentation and erosion control measures, and protective measures for critical areas and significant trees shall be installed prior to initiating any construction activities.

Sanitary Sewer Notes

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.

2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the sewer system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards").

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revisions made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. Any structure and/or obstruction which require removal or relocation relating to this project shall be done so at the developer's expense.

8. Minimum grade on all 4 inch residential side sewers shall be 2 percent and 6 inch commercial side sewers shall be 1 percent; maximum shall be 8 percent. All side sewers shall be 6 inches within City right-of-way.

9. Side sewers shall be installed in accordance with City Standard Nos. 04.03.01, 04.03.02, 04.03.03 and 04.03.04. Side sewer installation work shall be done in accordance with the Washington Industrial Safety and Health Act (WISHA).

10. All sewer pipe shall be PVC, Polypropylene, or Ductile Iron. PVC sewer pipe shall conform to ASTM D-3034, SDR35 for pipe sizes 15-inch and smaller and ASTM F679 for pipe sizes 18- to 27-inch, ductile iron pipe shall be Class 51 or greater, lined with Protecto 401TM epoxy lining or equivalent, unless otherwise noted. 12-inch through 30-inch Polypropylene Pipe (PP) shall be dual walled, have a smooth interior and exterior corrugations and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. 36-inch through 60-inch PP pipe shall be triple walled and meet WSDOT 9-05.24(2). It shall meet or exceed ASTM F2764. PP shall have a minimum pipe stiffness of 46 pii when tested in accordance with ASTM D2412. Testing shall be per ASTM F1417. Trenching, bedding, and backfill shall be in accordance with City Standard No. 06.01.01. Minimum cover on PVC and PP pipe shall be 3.0 feet. Minimum cover on ductile iron pipe shall be 1.0 foot.

11. Sanitary sewer manhole frames and covers shall conform to City Standard No. 06.01.02.

12. Sanitary sewer manholes shall conform to City Standard Nos. 04.01.01, 04.01.02, 04.01.03 and 04.01.04. All manholes shall be channeled for future lines as specified on these plans. Manhole steps and ladder shall conform to Standard No. 06.01.03.

13. Sanitary sewer pipe and side sewers shall be 10 feet away from building foundations and/or roof lines with the exception of side sewers that provide service to a single-family residence. At the discretion of the review engineer, a Licensed Professional Engineer will be required to stamp the design to account for depth or proximity to foundation, steep slopes, or other factors.

14. No side sewers shall be connected to any house or building until all manholes are adjusted to the finished grade of the completed asphalt roadway and the asphalt patch and seal around the ring are accepted.

15. For commercial developments in which sources of grease and/or oils may be introduced to the City sanitary sewer system, a City approved grease interceptor shall be installed downstream from the source.

16. Once sewer and all other utility construction is completed, all sanitary sewer mains and side sewers shall be tested per Section 406 of the City Standards.

Grading, Erosion, and Sediment Control Plan Notes

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the approved engineering plans, representatives from all applicable utility companies, the project owner and appropriate city staff. Contact Engineering Services at (253-841-5568) to schedule the meeting. The contractor is responsible to have their own set of approved plans at the meeting.

2. After completion of all items shown on these plans and before acceptance of the project the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revision made to these plans must be reviewed and approved by the developer's engineer and the Engineering Services Staff, and the FMWC, VW, or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. All limits of clearing and areas of vegetation preservation as prescribed on the plans shall be clearly flagged in the field and observed during construction.

8. All required sedimentation and erosion control facilities must be constructed and in operation prior to any land clearing and/or other construction to ensure that sediment laden water does not enter the natural drainage system. The contractor shall schedule an inspection of the erosion control facilities PRIOR to any land clearing and/or other construction. All erosion and sediment facilities shall be maintained in a satisfactory condition as determined by the City, until such time that clearing and/or construction is completed and the potential for on-site erosion has passed. The implementation, maintenance, replacement, and additions to the erosion and sedimentation control systems shall be the responsibility of the permittee.

9. The erosion and sedimentation control system facilities depicted on these plans are intended to be minimum requirements to meet anticipated site conditions. As construction progresses and unexpected or seasonal conditions dictate, facilities will be necessary to ensure complete situation control on the site. During the course of construction, it shall be the obligation and responsibility of the permittee to address any new conditions that may be created by his activities and to provide additional facilities, over and above the minimum requirements, as may be needed to protect adjacent properties, sensitive areas, natural water courses, and/or storm drainage systems.

10. Approval of these plans is for grading, temporary drainage, erosion, and sedimentation control only. It does not constitute an approval of permanent storm drainage design, size or location of pipes, restrictors, channels, or retention facilities.

11. Any disturbed area which has been stripped of vegetation and where no further work is anticipated for a period of 30 days or more, must be immediately stabilized with mulching, grass planting, or other approved erosion control treatment applicable to the time of year in question. Grass seeding alone will be acceptable only during the months of April through September inclusive. Seeding may proceed outside the specified time period whenever it is in the interest of the permittee but must be augmented with mulching, netting, or other treatment approved by the City.

12. In case erosion or sedimentation occurs to adjacent properties, all construction work within the development that will further aggravate the situation must cease, and the owner/contractor will immediately commence restoration methods. Restoration activity will continue until such time as the affected property owner is satisfied.

13. No temporary or permanent stockpiling of materials or equipment shall occur within critical areas or associated buffers, or the critical root zone for vegetation proposed for retention.

City of Puyallup
Development & Permitting Services
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APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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Architect:

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07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
General Notes

DWG.
C1-002
02 OF 23

Water Notes

1. All work in City right-of-way requires a permit from the City of Puyallup. Prior to any work commencing, the general contractor shall arrange for a preconstruction meeting at the Development Services Center to be attended by all contractors that will perform work shown on the engineering plans, representatives from all applicable Utility Companies, the project owner and appropriate City staff. Contact Engineering Services to schedule the meeting (253) 841-5568. The contractor is responsible to have their own approved set of plans at the meeting.

2. After completion of all items shown on these plans and before acceptance of the project, the contractor shall obtain a "punch list" prepared by the City's inspector detailing remaining items of work to be completed. All items of work shown on these plans shall be completed to the satisfaction of the City prior to acceptance of the water system and provision of sanitary sewer service.

3. All materials and workmanship shall conform to the Standard Specifications for Road, Bridge, and Municipal Construction (hereinafter referred to as the "Standard Specifications"), Washington State Department of Transportation and American Public Works Association, Washington State Chapter, latest edition, unless superseded or amended by the City of Puyallup City Standards for Public Works Engineering and Construction (hereinafter referred to as the "City Standards"), or as directed by Fruitland Mutual Water Company (FMWC), Valley Water (VW), or Tacoma City Water (TCW) is the purveyor.

4. A copy of these approved plans and applicable city developer specifications and details shall be on site during construction.

5. Any revisions made to these plans must be reviewed and approved by the developer's engineer, the Engineering Services Staff, and the FMWC, VW or TCW when served by that purveyor, prior to any implementation in the field. The City shall not be responsible for any errors and/or omissions on these plans.

6. The contractor shall have all utilities verified on the ground prior to any construction. Call (811) at least two working days in advance. The owner and his/her engineer shall be contacted immediately if a conflict exists.

7. Any structure and/or obstruction which requires removal or relocation relating to this project shall be done so at the developer's expense.

8. Bacteriological (Coliform and Iron Bacteria) test samples will be taken by the City (or FMWC, VW or TCW when served by that purveyor) and paid for by the contractor, except for Capital Improvement Projects (CIP) which shall be paid for by the City.

9. Water mains shall have a minimum cover of 36 inches from paved final grade in improved right-of-way and improved easements, and a minimum of 48 inches in unimproved right-of- way and unimproved easements.

10. Pipe for water mains shall be ductile iron conforming to Section 7-09 of the Standard Specifications, Class 52 with tyton or approved equal joints. Pipe shall be cement lined in accordance with A.S.A. Specification A 21.4-1964.

11. Connections to existing water mains typically shall be wet taps through a tapping tee and tapping valve and shall be made by a city approved contractor. The tapping sleeve shall be Romac SST all stainless steel tapping sleeve or approved equal. A two-piece epoxy coated or ductile iron tapping sleeve may be used on ductile iron pipe, when the tap is smaller than the water main size i.e. 6-inch tap on 8-inch pipe. The City (or FMWC, VW or TCW when served by that purveyor) shall approve the time and location for these connections.

12. All water mains and appurtenances shall be hydrostatically tested at 200 psi in accordance with Standard Specification 7-09.3(23). Pressure testing shall not be performed until satisfactory purity samples have been received, except when new water mains are installed independently from the water system piping.

13. Fire hydrants shall be installed in accordance with City Standard Detail 03.05.01 and as directed by the City of Puyallup Fire Code Official.

14. Valve marker posts shall be installed where valve boxes are hidden from view or in unpaved areas. The installation shall be in accordance with City Standard Detail 03.01.02.

15. Resilient seated wedge gate valves shall be used for 10-inch mains and smaller. Butterfly valves shall be used for mains greater than 10 inches.

16. Pipe fitting for water mains shall be ductile iron and shall be mechanical joint conforming to AWWA Specification C111-72.

17. Water main pipe and service connections shall be a minimum of 10 feet away from building foundations and/or roof lines.

18. Where a water main crosses the Northwest Gas pipeline, the water line shall be cased with PVC pipe a minimum of 10 feet beyond each side of the gas line easement. Contact Williams Northwest Pipeline before the crossing is made.

19. Trenching, bedding, and backfill for water mains shall be installed in accordance with City Standard Detail 06.01.01.

20. All commercial and industrial developments, irrigation systems, and multi-family water service connections shall be protected by a double check valve assembly or a reduced pressure backflow assembly as directed by the City (or FMWC, VW or TCW when served by that purveyor) conforming to City Standard Details 03.04.01, 03.04.02, and 03.04.03.

21. Any lead joint fitting disturbed during construction shall be replaced with a mechanical joint fitting at the contractor's expense.

22. When hydraulic fire flow modeling is required for a project, the City will issue a permit. The hydraulic modeling criteria is based on the projected 2030 water demand, while maintaining a minimum system pressure of 20 pounds per square inch and a maximum velocity of 10 feet per second.

23. When using a fire hydrant for non-firefighting purposes, a city hydrant meter must be used. Coordinate the acquisition of the hydrant meter with the City's Utility Billing Division at Puyallup City Hall. A city approved backflow protection assembly shall be installed by the person requesting use of a fire hydrant. The assembly shall be accompanied by a current backflow assembly test report. The test report shall be available at the site for the duration of the hydrant use.

24. Should a break occur on any City water main, the Contractor shall follow the City's adopted "Water Main Break Procedure" issued to them at the Pre-Construction Meeting and notify those connected to the system in the impacted area as outlined in the Procedure.

25. Water Main Repairs (References: AWWA C651-14 and WSDOT Standard Specification Section 7-09)

    (Note: A planned water main repair shall be approved by the City Inspector and/or Water Division Supervisor prior to commencing work.)

    a. Repair without depressurization - Small leaks shall be repaired using repair bands while maintaining positive pressure in the water main. Valves surrounding the leak will be partially shut by the City Water Department to reduce the flow and pressure to the area. Blowoffs and hydrants in the reduced pressure area may be opened as needed to further reduce the pressure. The water main trench shall be over-excavated to allow water in the trench to be pumped out and maintained below the level of the water main. The repair shall be completed with the water main pressure remaining positive. After the repair is made, the system shall be fully pressurized and a visual leak inspection will be completed. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from valve opened for flushing to the exit hydrant or blowoff).

    b. Repair/cut-in with depressurization - Trench shall be over excavated and dewatered below the water main. Flush water from pipe from each direction until it runs clear. Immediately prior to installation of a new pipe section for repair or cut in tee, all new fittings and pipe spools shall be swabbed with a five percent (5%) chlorine solution (minimum). The interior of the existing pipe shall be swabbed with a five percent (5%) chlorine solution at least 6 feet in each direction from exposed cut ends. The water main in the affected area shall be flushed to achieve three pipe volumes pulled from the pipe (distance measured from the valve opened for flushing to the exit hydrant or blowoff). Customers shall be notified after the water main is flushed and repairs have been completed, as outlined in the "Water Main Break Procedure."

26. New Water Main Installation:

    a. Each new water main section shall be delivered, stacked and stored onsite with ends plugged. The plugs shall remain in the pipe until each particular section is installed. National Sanitation Foundation (NSF) approved sixty-five percent (65%) calcium hypochlorite shall be added to the upstream end of each pipe section, and at each hydrant tee in the amount given in the table below (or per approved manufacturer specifications). The minimum amount of calcium hypochlorite added should be sufficient to achieve a 50 mg/L concentration within the impacted area.

Pipe Diameter (Inches)	Pipe Volume per 18 feet (gal)	5-gram tablets per pipe section	Hypochlorite Granules		Maximum Fill Rate (gpm)
			Ounces per 500 feet	Teaspoons per 18 feet	
4	35	1	1.7	0.2	40
6	53	1	3.8	0.4	90
8	70	2	6.7	0.7	150
12	106	4	15.1	1.4	350
16	141	6	27	2.5	600

    b. New water mains shall be filled using an approved backflow prevention assembly. The water main shall be filled from the lower elevation end so that as the water main is filled, the chorine is contacted, dissolved and spread relatively uniform through the length of the new water main. The fill rate shall be minimized so that the velocity of the water is less than 1 ft/sec (see table above). Successful pressure test and bacteriological tests shall be completed and provided to the City prior to any new mater main connection to the existing water system.

    c. The chlorinated water will be allowed to remain in contact with the new water main system for 24 to 72 hours. After 24 hours, water may be added to the water main for the purposes of pressure testing. The water in the main used for pressure testing must remain in the water main until pressure test is completed. If necessary, liquid chlorine shall be injected into the water main with fill water to maintain a concentration in the water main above 50 mg/L. Under no circumstance shall "super" chlorinated water be allowed to sit within a new water main for more than 5 days.

    d. Pressure testing includes testing against new valves and hydrants. Each valve shall be tested by closing each in turn and reducing the pressure beyond the valve. The pressure on the back side of the valve should not be eliminated. Care must be taken that, during this process, positive pressure remains throughout the system being tested at all times. All hydrant foot valves shall be open during pressure testing so that the pressure test is against the hydrant valve. Pressure testing will not be allowed against any existing valves.

    e. After successful pressure testing, the water main shall be thoroughly flushed to remove all "super" chlorinated water from the new water main. Flushing of new or extended water mains shall be conducted per WSDOT Specification 7-09.3(24)A with a minimum velocity developed within the pipe while flushing of 2.5 feet per second (fps). All flushed water shall be dechlorinated prior to disposal. The Contractor shall be responsible for disposal of all chlorinated water flushed from mains. **The City shall approve the disposal method prior to implementation in the field**. The Contractor shall utilize on- site disposal methods, if available. Disposal of flush water to the sanitary sewer system shall not be allowed without written permission from the Water Pollution Control Plant (WPCP) Supervisor. Any planned discharge to a stormwater system shall be dechlorinated to a concentration of 0.1 ppm or less, pH adjusted (if necessary) to be between 6.5 and 8.5, and volumetrically and velocity controlled to prevent any resuspension of sediments. The City will require independent testing throughout the water discharge process to ensure compliance of these standards are met.

    f. Samples for bacteriological analysis shall be collected after flushing and again 24 hours after the first set of samples.

    g. All closure/final connection fittings shall be sprayed clean and then swabbed with a five percent (5%) chlorine solution immediately prior to installation per AWWA Standard C651. Additional samples for bacteriological analysis shall be collected from the immediate vicinity of the new or replaced water main and analyzed after the final connections are made. If necessary, additional flushing shall be conducted and additional samples shall be collected until satisfactory results are obtained.

City of Puyallup
Development & Permitting Services
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APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022
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.
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CALL TWO BUSINESS DAYS BEFORE YOU DIG
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UTILITIES UNDERGROUND LOCATION CENTER

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Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
JMJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

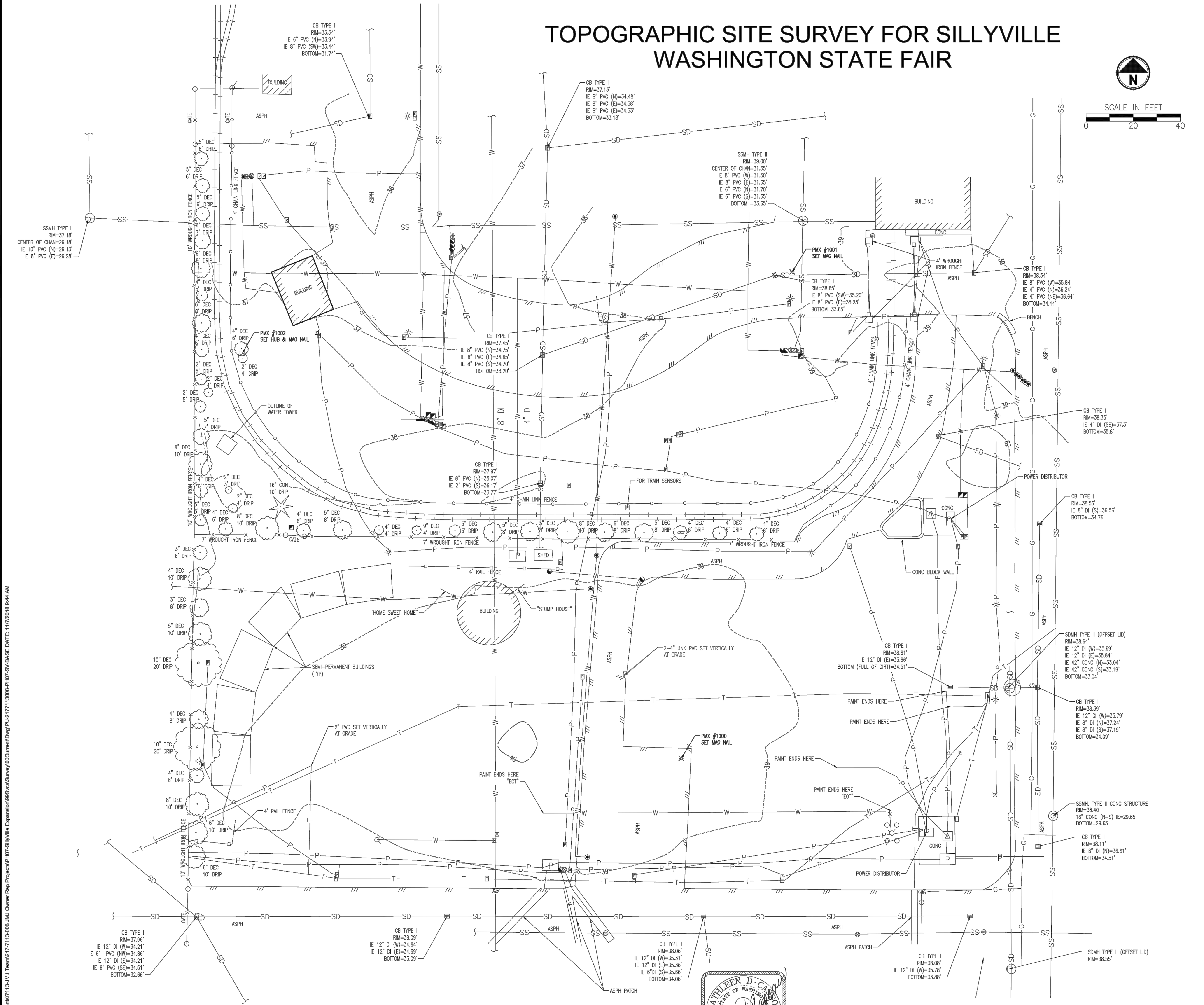
JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022
SHEET NAME: General Notes
DWG: C1-003
03 OF 23

File: 1507002-008-CV.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 11:51:28am

TOPOGRAPHIC SITE SURVEY FOR SILLYVILLE
WASHINGTON STATE FAIR



SCALE IN FEET
0 20 40

SURVEY NOTES:

1. THIS MAP CORRECTLY REPRESENTS CONDITIONS AND FEATURES EXISTING AT THE TIME OF THIS SURVEY IN DECEMBER, 2021.

2. CONVENTIONAL AND GPS SURVEY EQUIPMENT WAS USED IN THE PERFORMANCE OF THIS SURVEY. ALL EQUIPMENT IS MAINTAINED IN CONFORMANCE WITH CURRENT STATE STATUTE.

3. THIS SURVEY WAS PREPARED BY FIELD TRAVERSE AS PER WAC 332-130-090, PART C. RELATIVE ACCURACY EXCEEDS 1 FOOT IN TEN THOUSAND.

4. ALL SURFACE FEATURES AND INVERT STRUCTURE ELEVATION SHOWN HEREON WERE FIELD LOCATED AND MEASURED BY PARAMETRIX FOR THIS SURVEY. UNDERGROUND UTILITY LINES ARE BASED UPON A COMBINATION OF RECORD PLANS FROM WASHINGTON STATE FAIR , SURFACE FEATURE MEASUREMENTS AND ONSITE UNDERGROUND UTILITY MARKINGS PERFORMED BY APS.

5. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE.

HORIZONTAL DATUM:

HORIZONTAL DATUM FOR THIS SURVEY IS NAD 1983(91), WASHINGTON STATE PLANE SOUTH ZONE COORDINATE SYSTEM, U.S. SURVEY FEET. THE HORIZONTAL DATUM IS BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ.

POINT DESIGNATION: GP27512-18AZ
NORTHING: 678467.150
EASTING: 1194300.731

VERTICAL DATUM:

VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION FROM WSDOT, POINT DESIGNATION GP27512-18AZ

POINT DESIGNATION: GP27512-18AZ
ELEVATION: 77.073

PARAMETRIX CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1000	678383.16	1192937.48	39.55	SET MAG NAIL
1001	678589.29	1192984.50	38.75	SET MAG NAIL
1002	678554.74	1192751.28	37.46	SET HUB & MAG

LEGEND

- FOUND SURFACE MONUMENT
- FOUND MAG NAIL
- SET HUB & MAG NAIL/TACK
- SET MAG NAIL
- SET PK
- GAS VALVE
- RAILROAD ARM
- DECIDUOUS TREE (DBH IN INCHES – DIAMETER OF DRIP LINE IN FEET)
- CONIFER TREE (DBH IN INCHES – DIAMETER OF DRIP LINE IN FEET)
- CATCH BASIN
- MANHOLE STORM
- SEWER CLEAN OUT
- MANHOLE SEWER
- SEWER VALVE
- POWER JUNCTION BOX
- POWER METER
- POWER VAULT
- POWER PANEL
- POWER TRANSFORMER
- LIGHT STANDARD
- TELEPHONE HAND HOLE
- TELEPHONE VAULT
- GATE POST
- WATER HOSE BIB
- IRRIGATION VALVE
- WATER WELL
- FIRE HYDRANT
- WATER VALVE
- GUARD POST
- T — COMMUNICATION LOCATES
- T — COMMUNICATION LOCATES (FROM PREVIOUS SURVEY)
- T — COMMUNICATION LINE FROM RECORD
- G — GAS LOCATES
- G — GAS LINE FROM RECORD
- SD — STORM LOCATES
- SS — SEWER LOCATES
- SS — SEWER LINE FROM RECORD
- SS — SEWER LOCATES (FROM PREVIOUS SURVEY)
- P — POWER LOCATES
- W — WATER LOCATES
- W — WATER LINE FROM RECORD
- CHAIN LINK FENCE
- WROUGHT IRON FENCE
- RAIL FENCE
- EDGE OF ASPHALT
- TOP CENTER OF RAILROAD RAIL
- BUILDING LINE

KATHLEEN D. CASSOU, STATE OF WASHINGTON, 27133, REGISTERED PROFESSIONAL LAND SURVEYOR
01/07/2022

Parametrix
ENGINEERING . PLANNING . ENVIRONMENTAL SCIENCES
1019 39TH AVENUE SE, SUITE 100 | PUYALLUP, WA 98374
P 253.604.6600
WWW.PARAMETRIX.COM

SURVEYED	J. KELLY
DRAWN	S. SHARPE
CHECKED	J. MUNRO
APPROVED	K. CASSOU

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FILE NAME PU-2177113008-PH07-SV-BASE
JOB No. 217-7113-008
DATE 01/2022

SILLYVILLE SITE SURVEY PUYALLUP, WA

DRAWING NO. 1 OF 1

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY [signature]
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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Architect:

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905 Main St. Suite 200
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(206) 596-2020

Project:
SillyVille Train Expansion

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JUSTIN M. JONES, STATE OF WASHINGTON, 41829, REGISTERED PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
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DRAWN BY: DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Boundary & Topographic Survey

DWG.
C1-100
04 OF 23

File: 1507002-008-BNDY-TOPO.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 11:52:38am

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

0 150 300 ft
1" = 150'

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
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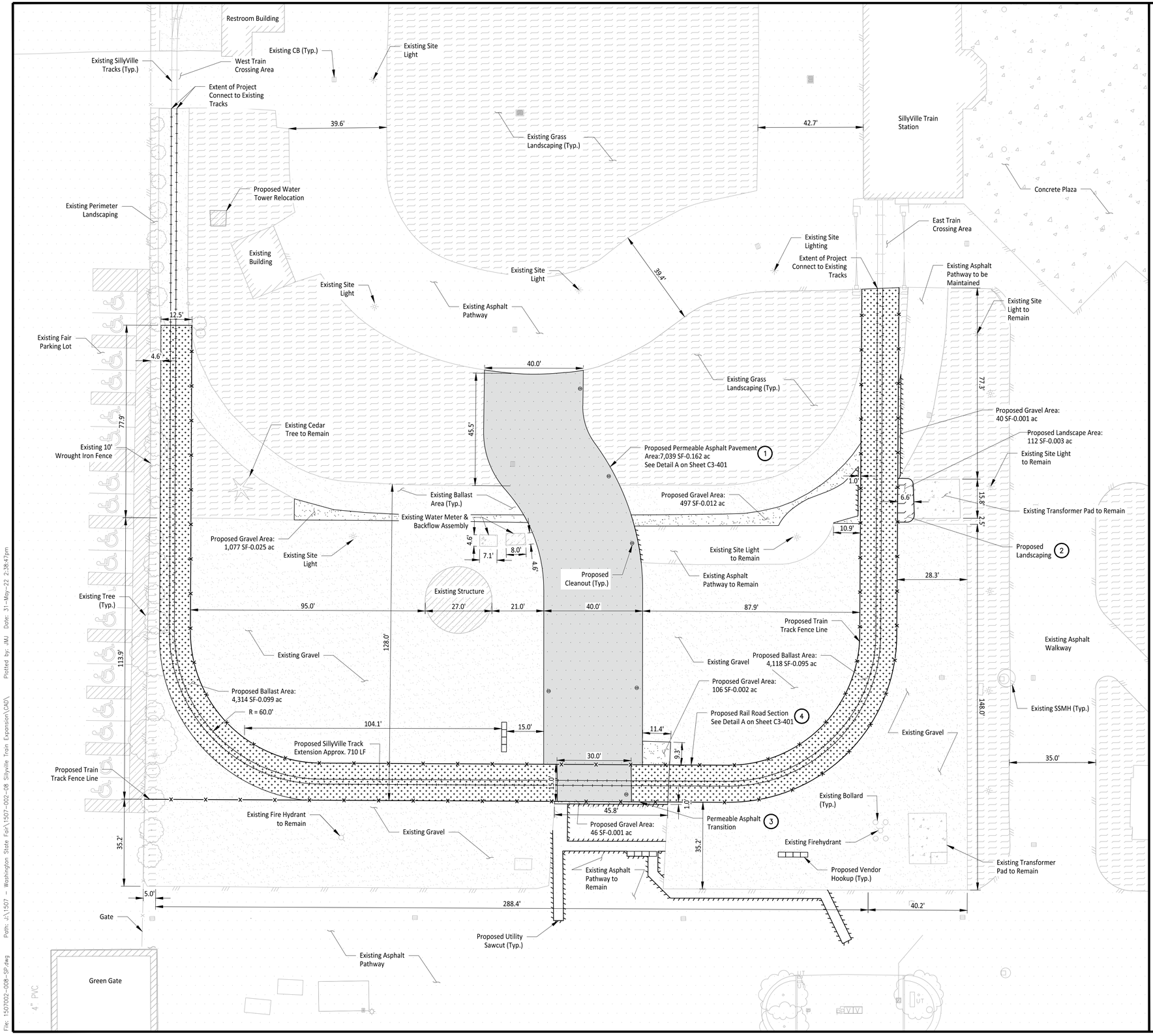
DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Washington State Fair Site Plan

DWG.
C1-101
05 OF 23

File: 1507002-008-SP-FAIR.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 11:55:22am



CONSTRUCTION NOTES

1. Permable Asphalt Pavement to be 3" Permeable Asphalt over 1" AASHTO #57 Stone and 5" Permeable Ballast. See Detail A on Sheet C3-401 for Section.
2. Landscaped Areas to be installed per City of Puyallup Standard Detail 01.02.08. See Detail B on Sheet C3-401 for Section.
3. Install Permeable Asphalt Transition between Permeable Asphalt and Existing Asphalt per Detail C on Sheet C3-401.
4. Rail Road to be Shoulder Ballast 4' in width with slopes matching to grade on both sides. See Detail D on Sheet C3-401 for Section.

LEGEND

- Existing Asphalt Pavement
- Existing Landscaping Area
- Existing Concrete Pavement
- Existing Gravel Area
- Existing Ballast Area
- Proposed Permeable Asphalt Area
- Proposed Landscaping Area
- Proposed Gravel Area
- Proposed Ballast Area
- Proposed Train Tracks Line
- Proposed Fence Line
- Existing Train Tracks Line
- Existing Fence Line
- Sawcut Existing Pavement

Proposed Surfaces

Surface	Area (sf)	Area (ac)
Landscaping	112	0.003
Gravel	1,593	0.037
Asphalt	854	0.020
Permeable Asphalt	7,039	0.162
Ballast	8,432	0.194
Total	18,030	0.414

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY Lance D. Williamson
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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0 20 40 ft
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(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
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JUSTIN M. JONES
STATE OF WASHINGTON
41826
REGISTERED
PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022
SHEET NAME: Site Plan
DWG. C1-102
06 OF 23

Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\
Plotted by: JMJ Date: 31-May-22 2:38:47pm
File: 1507002-008-SP.dwg

Restrooms Building
CB TYPE I
RIM=35.54'
IE 6" PVC (N)=33.94'
IE 8" PVC (SW)=33.44'
BOTTOM=31.74'
Site Light (Typ.)
CB TYPE I
RIM=37.13'
IE 8" PVC (N)=34.48'
IE 8" PVC (E)=34.58'
IE 8" PVC (E)=34.53'
BOTTOM=33.18'
Remove Existing Chain Link Fence Approx. 447 LF
SSMH TYPE II
RIM=39.00'
CENTER OF CHAN=31.55'
IE 8" PVC (W)=31.50'
IE 8" PVC (E)=31.65'
IE 6" PVC (N)=31.70'
IE 6" PVC (S)=31.65'
BOTTOM =33.65'
Existing Landscape Area
Existing Well (Typ.)
Existing Storm Drain Line
Existing Train Station
Existing Concrete Pavement (Typ.)
Existing Gravel Area
CB TYPE I
RIM=37.45'
IE 8" PVC (N)=34.75'
IE 8" PVC (E)=34.65'
IE 8" PVC (S)=34.70'
BOTTOM=33.20'
SSMH TYPE II
RIM=37.18'
CENTER OF CHAN=29.18'
IE 10" PVC (N)=29.13'
IE 8" PVC (E)=29.28'
Protect & Maintain Existing Asphalt Pathway
Existing Water Line
Existing Wrought Iron Fence Height: 4'
Existing Building
Existing Power Line
Existing Asphalt Pavement
CB TYPE I
RIM=38.54'
IE 8" PVC (W)=35.84'
IE 4" PVC (N)=36.24'
IE 4" PVC (NE)=36.64'
BOTTOM=34.44'
CB TYPE I
RIM=38.65'
IE 8" PVC (SW)=35.20'
IE 8" PVC (E)=35.25'
BOTTOM=33.65'
Existing Irrigation Valve (Typ.)
Power Junction Box (Typ.)
Water Tower
Existing Power Line
Existing Landscape Area
Existing Chain Link Fence Height: 4'
CB TYPE I
RIM=38.35'
IE 4" DI (SE)=37.3'
BOTTOM=35.8'
Existing Transformer Pad
Project Clearing Limits (Typ.)
Existing Rail Tracks
CB TYPE I
RIM=37.97'
IE 8" PVC (N)=35.07'
IE 2" PVC (S)=36.17'
BOTTOM=33.77'
CB TYPE I
RIM=38.56'
IE 8" DI (S)=36.56'
BOTTOM=34.76'
Existing Wrought Iron Fence Height: 7'
Existing Water Meter and RPBA
Existing Natural Gas Line
Existing Tree (Typ.)
Existing Rail Fence Height: 4'
Existing Shed
Existing Concrete Wall Planter Width: 1'
Edge of Asphalt Pavement
Existing Building
Edge of Gravel
Existing Gravel Area
SDMH TYPE II (OFFSET LID)
RIM=38.64'
IE 12" DI (W)=35.69'
IE 12" DI (E)=35.84'
IE 42" CONC (N)=33.04'
IE 42" CONC (S)=33.19'
BOTTOM=33.04'
Existing Fair Parking Lot
Existing Gravel Area
Existing Power Lines
CB TYPE I
RIM=38.81'
IE 12" DI (E)=35.86'
BOTTOM (FULL OF DIRT)=34.51'
Existing Communications Line
CB TYPE I
RIM=38.39'
IE 12" DI (W)=35.79'
IE 8" DI (N)=37.24'
IE 8" DI (S)=37.19'
BOTTOM=34.09'
Edge of Asphalt Pavement
Existing Power Service Line
Existing Storm Drain Line
Existing Fire Hydrant
Existing Water Valve (Typ.)
Existing Water Line
Existing Water Line
Existing Transformer Pad
SSMH, TYPE II CONC STRUCTURE
RIM=38.40
18" CONC (N-S) IE=29.65
BOTTOM=29.65
4' Rail Fence
Existing Power Line
Existing Power Panel (Typ.)
Existing Sewer Cleanout (Typ.)
Existing Fire Hydrant
Stormwater Line Outfalls to Existing Stormwater Detention Pond
Existing Wrought Iron Fence Height: 10'
Existing Communications Line
Existing Power Junction Box (Typ.)
Existing Sewer Clean Out
Existing Power Service Line
CB TYPE I
RIM=38.11'
IE 8" DI (N)=36.61'
BOTTOM=34.51'
CB TYPE I
RIM=37.96'
IE 12" DI (W)=34.21'
IE 6" PVC (NW)=34.86'
IE 12" DI (E)=34.21'
IE 6" PVC (SE)=34.51'
BOTTOM=32.66'
CB TYPE I
RIM=38.09'
IE 12" DI (W)=34.64'
IE 12" DI (E)=34.69'
BOTTOM=33.09'
Asphalt Pavement
ASPH PATCH
CB TYPE I
RIM=38.06'
IE 12" DI (W)=35.31'
IE 12" DI (E)=35.36'
IE 6"DI (S)=35.66'
BOTTOM=34.06'
ASPH PATCH
CB TYPE I
RIM=38.08'
IE 12" DI (W)=35.78'
BOTTOM=33.88'
SDMH
RIM=38.40
IE 33.81=(18" CP NE)
IE=UNABLE TO MEASURE N&S
BOTTOM=33.52
SDMH TYPE II (OFFSET LID)
RIM=38.55'

GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.

LEGEND

- SET HUB
- SET MAG NAIL
- SET PK
- SET NAIL
- SET SPIKE/PMX
- SIGN AS NOTED
- COLUMN
- ECOLOGY BLOCK
- GAS METER
- GAS VALVE
- DECIDUOUS TREE
- CONIFER TREE
- CATCH BASIN
- AREA DRAIN
- CATCH BASIN SOLID
- STORM CLEAN OUT
- MANHOLE STORM
- ROOF DRAIN
- SEWER CLEAN OUT
- MANHOLE UNKNOWN
- MANHOLE SEWER
- POWER VAULT
- POWER JUNCTION BOX
- POWER MANHOLE
- POWER PANEL
- TELEPHONE RISER
- TELEPHONE HAND HOLE
- TELEPHONE MANHOLE
- GATE POST
- HEDGE
- TEST BORING PIT
- WATER HOSE BIB
- IRRIGATION VALVE
- STAND PIPE
- FIRE HYDRANT
- WATER VENDOR HOOKUP
- WATER MANHOLE
- WATER VAULT
- WATER VALVE
- POWER GUY ANCHOR
- LIGHT STANDARD
- POWER POLE WITH LIGHT
- POWER POLE WITH LIGHT AND DROP LINE
- CONC POST
- SQUARE POST
- STEEL POST
- WOOD POST

- Existing Landscaping Area
- Existing Asphalt Pavement
- Existing Gravel Area
- Existing Concrete Pavement
- Existing Building
- Existing Balast
- SD — Existing Storm Drain Line
- SS — Existing Sanitary Sewer Line
- W — Existing Water Line Line
- IRR — Existing Irrigation Line
- P — Existing Power Service Line
- LC — Existing Site Lighting Circuit
- T — Existing Communication Line
- G — Existing Natural Gas Line
- G — Clearing Limits

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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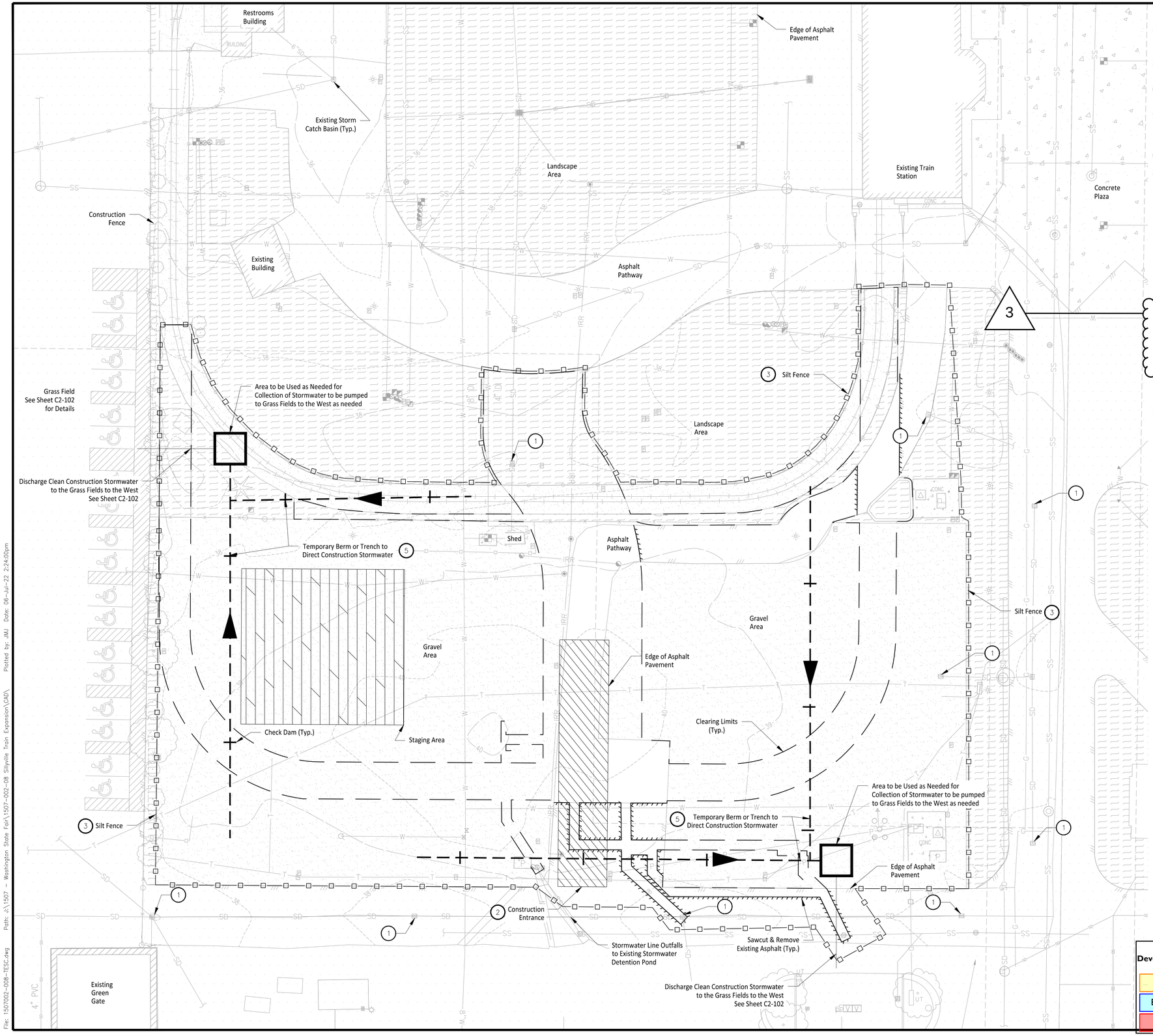
DRAWN BY:
DESIGN BY: JJ
PROJ.NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Existing Site Plan

DWG.
C1-201
07 OF 23

File: 1507002-008-EX.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 2:40:24pm



CONSTRUCTION NOTES

1. Maintain and Install storm drain inlet protection in all existing catch basins within the project vicinity per WSDOT Standard Plan I-40.20-00 and storm drain barriers per City of Puyallup Standard Details 02.03.05 and 02.03.06.
2. Maintain construction entrance per City of Puyallup Standard Detail 05.01.01 and install wheel wash as needed per Washington DOE BMP C106.
3. Install silt fence per City of Puyallup Standard Detail 02.03.02. Silt Fence to mark clearing limits in the field.
4. Turbidity monitoring point. Additional treatment may be needed to meet stormwater discharge limits. Treatment options include:
   - Chemical Treatment per DOE BMP C250
   - Filtration per DOE BMP C251
5. Maintain temporary ditch to gravity flow stormwater to Collection Area.
6. If necessary, alternative sediment control methods shall be submitted by the contractor for review and approval prior to construction.

GENERAL NOTES

1. Construct Pipe trench bedding and backfill as necessary per City of Puyallup Standard Detail 06.01.01.
2. Install straw bale barriers, wattles, and other necessary TESC measures as required.
3. Exposed soils shall be watered as necessary to prevent dust from leaving the site.
4. All concrete handling and equipment washing shall be in accordance with Washington DOE BMP C151.
5. Install high visibility construction fence where silt fence is not required as shown per DOE BMP C103.
6. A CESCL shall be available on-site or on-call for the duration of construction operations.
7. From April 1 to October 31 all disturbed areas at final grade & all exposed areas that are scheduled to remain unworked for 30+ days shall be stabilized within 10 days. From November 1 to March 31 all exposed soils at final grade shall be stabilized immediately using permanent or temporary measures. Exposed soils with an area +5,000 sqft that are scheduled to remain unworked for more than 24 hrs and exposed areas of less than 5,000 sqft that will remain unworked for more than 7 days shall be stabilized immediately. All disturbed areas which are not planned to be constructed on within 90 days from time of clearing & grading shall be revegetated with the native vegetation.
8. All BMP's per City of Puyallup standards and protection CSWPPP.
9. Contractor to instill protection devices for trees proposed for retention
10. Protect Low Impact Development BMPs
    - 10.1. Protect all Permeable Pavement and Infiltration Areas from sedimentation through installation and maintenance of erosion and sediment control BMPs on portions of the site that utilize infiltration BMPs. Leave infiltration areas high and/or place silt fence around the areas to ensure runoff will not accumulate silt within the subgrade. Restore the BMPs to their fully functioning condition if they accumulate sediment during construction. Restoring the BMP must include removal of sediment and any sediment-laden Bioretention/rain garden soils, and replacing the removed soils with soils meeting the design specification.
    - 10.2. Prevent compacting Permeable Pavement and Infiltration BMPs by excluding construction equipment and foot traffic. Protect completed lawn and landscaped areas from compaction due to construction equipment.
    - 10.3. Control erosion and avoid introducing sediment from surrounding land uses onto permeable pavements. Do not allow muddy construction equipment on the base material or pavement. Do not allow sediment-laden runoff onto permeable pavements or base materials.
    - 10.4. Pavement fouled with sediments or no longer passing an initial infiltration test must be cleaned using procedures in accordance with this manual or the manufacturer's procedures.
    - 10.5. Keep all heavy equipment off existing soils under LID facilities that have been excavated to final grade to retain the infiltration rate of the soils.

CONSTRUCTION SEQUENCE

1. Hold a preconstruction meeting with the City and obtain required permits.
2. Establish clearing and grading limits.
3. Construct temporary construction entrance.
4. Construct perimeter ditches, silt fences, and other erosion control devices as shown.
5. Construct protection devices for critical areas and significant trees proposed for retention.
6. Schedule an erosion control inspection with the City.
7. Construct storm drainage retention/detention facilities. Provide emergency overflow as applicable.
8. All ditches and swales as shown shall be provided to direct all surface water to the retention/detention and sedimentation pond as clearing and grading progresses. No uncontrolled surface water shall be allowed to leave the site or be discharged to a critical area at any time during the grading operations.
9. Clearly state at what point grading activities can begin, usually only after all drainage and erosion control measures are in place.
10. Identify erosion control measures which require regular maintenance.

LEGEND

Remove Existing Tree

Silt Fence

Clearing Limits

0 20 40 ft

1" = 20'

APPROVED

BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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City of Puyallup
Development & Permitting Services
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Building	Planning
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Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
JJJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED
PROFESSIONAL ENGINEER
07-08-22

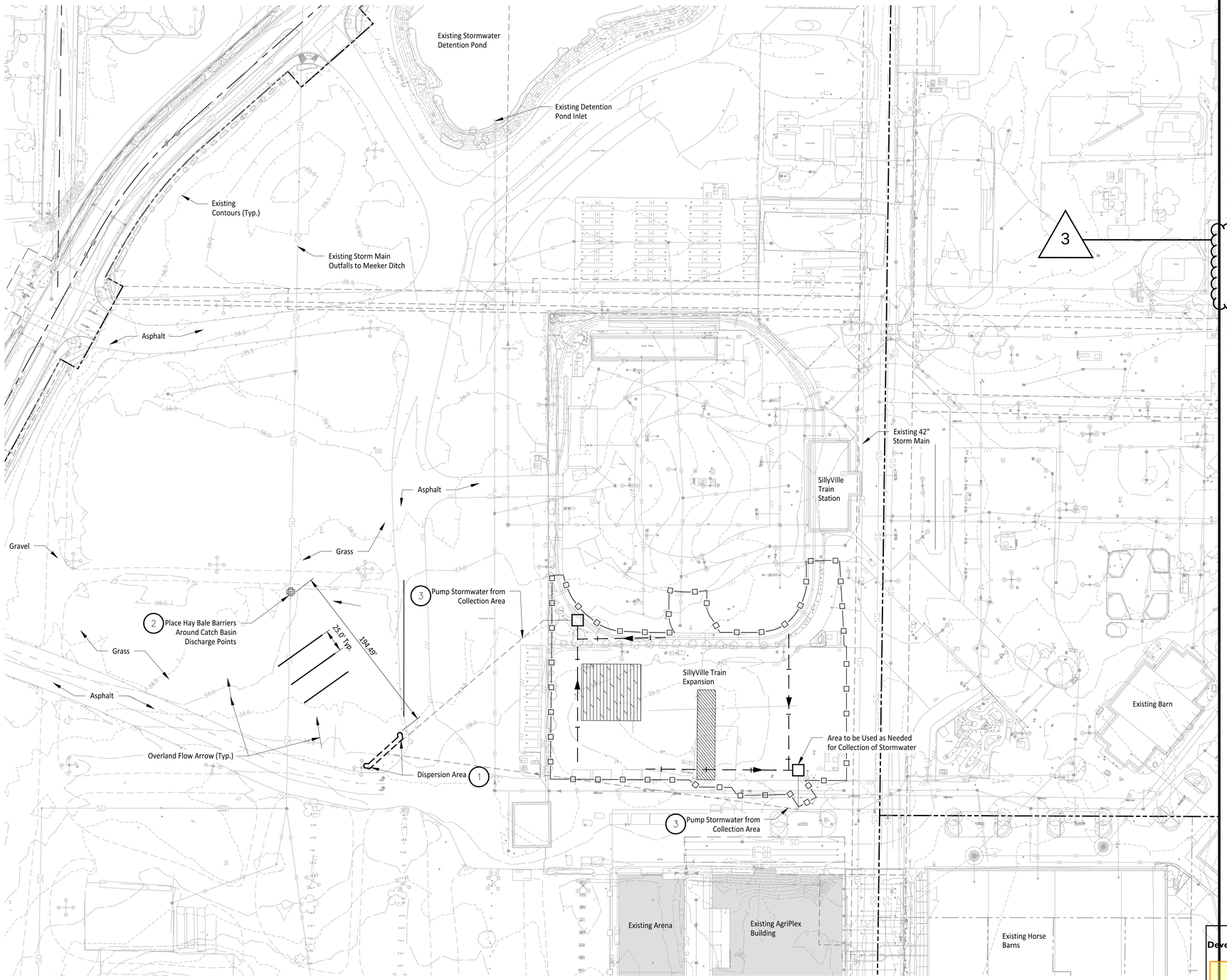
REV	DATE	DESCRIPTION
1	06/07/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Temporary Erosion & Sediment Control Plan

DWG.
C2-101
08 OF 23

File: 1507002-008-TESC.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 06-Jul-22 2:24:00pm



CONSTRUCTION NOTES

1. Grass fields to be used for Vegetative Filtration as additional or alternative treatment to Sediment Trap. Vegetative Filtration and Wattles to be in accordance with DOE BMP's 235 and 236.
   - Stormwater to be dispersed through slotted pipe manifold or water truck bar spreader.
   - Contractor to discharge consistently within the specified dispersion area and alternate between grass fields to prevent buildup of sediment and channelization of water.
   - Discharge velocities should be kept to a minimum and point discharges avoided.
2. Install storm drain inlet protection in all existing catch basins within the project vicinity per WSDOT Standard Plan I-40.20-00 and storm drain barriers per City of Puyallup Standard Details 02.03.05 and 02.03.06.
3. Stormwater to be pumped from Sediment Trap to grass field dispersion area. Contractor to adjust pumping as necessary through phases of construction.

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LEGEND

Remove Existing Tree

0 60 120 ft
1" = 60'

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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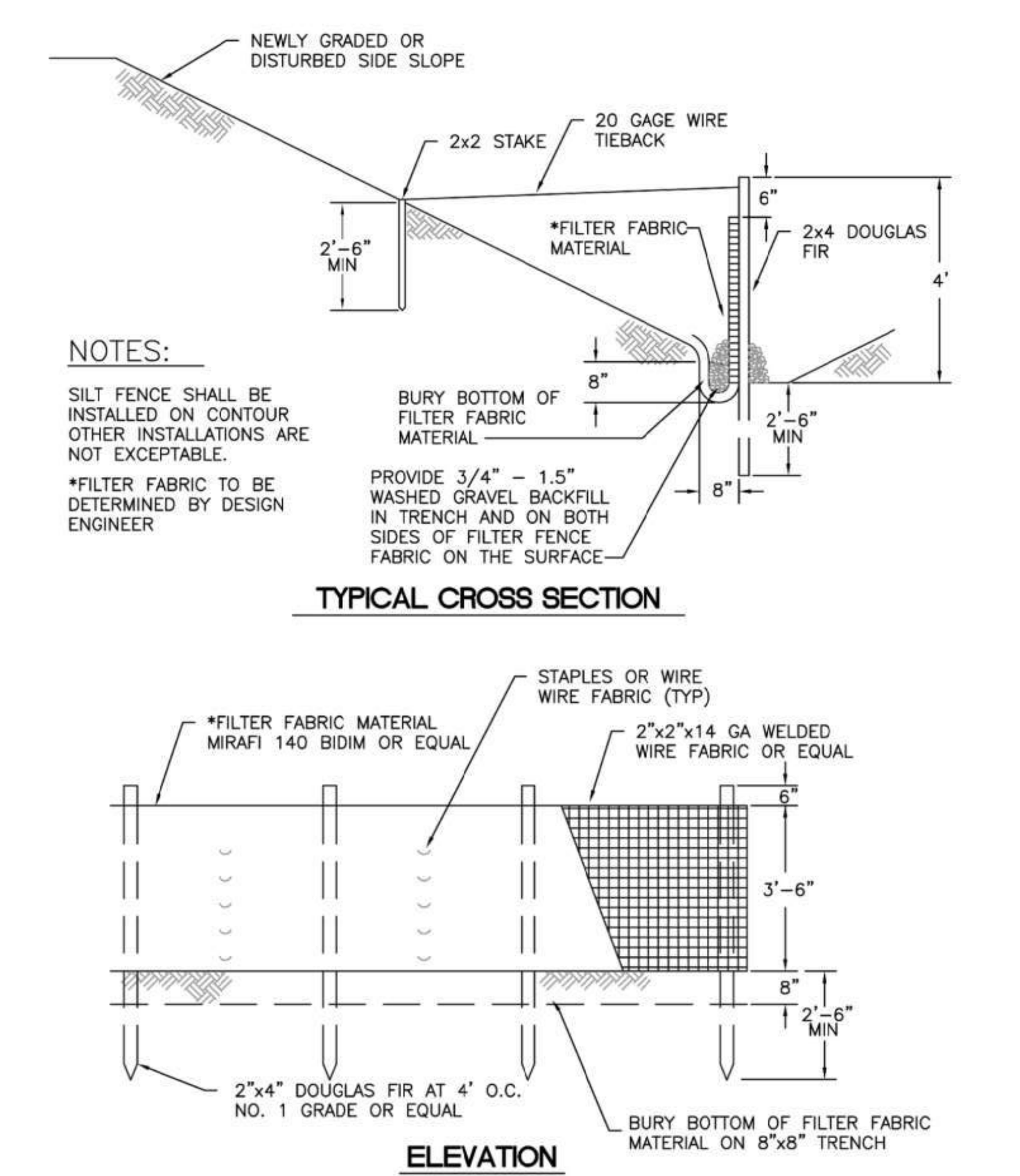
DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Temporary Erosion & Sediment Control Plan

DWG.
C2-102
09 OF 23

File: 1507002-008-TESC-2.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 06-Jul-22 2:22:21pm



NEWLY GRADED OR DISTURBED SIDE SLOPE
2x2 STAKE
20 GAGE WIRE TIEBACK
*FILTER FABRIC MATERIAL
2x4 DOUGLAS FIR
2'-6" MIN
BURY BOTTOM OF FILTER FABRIC MATERIAL
PROVIDE 3/4" - 1.5" WASHED GRAVEL BACKFILL IN TRENCH AND ON BOTH SIDES OF FILTER FENCE FABRIC ON THE SURFACE
TYPICAL CROSS SECTION
*FILTER FABRIC MATERIAL MIRAFI 140 BIDIM OR EQUAL
STAPLES OR WIRE FABRIC (TYP)
2"x2"x14 GA WELDED WIRE FABRIC OR EQUAL
2"x4" DOUGLAS FIR AT 4' O.C. NO. 1 GRADE OR EQUAL
BURY BOTTOM OF FILTER FABRIC MATERIAL ON 8"x8" TRENCH
ELEVATION

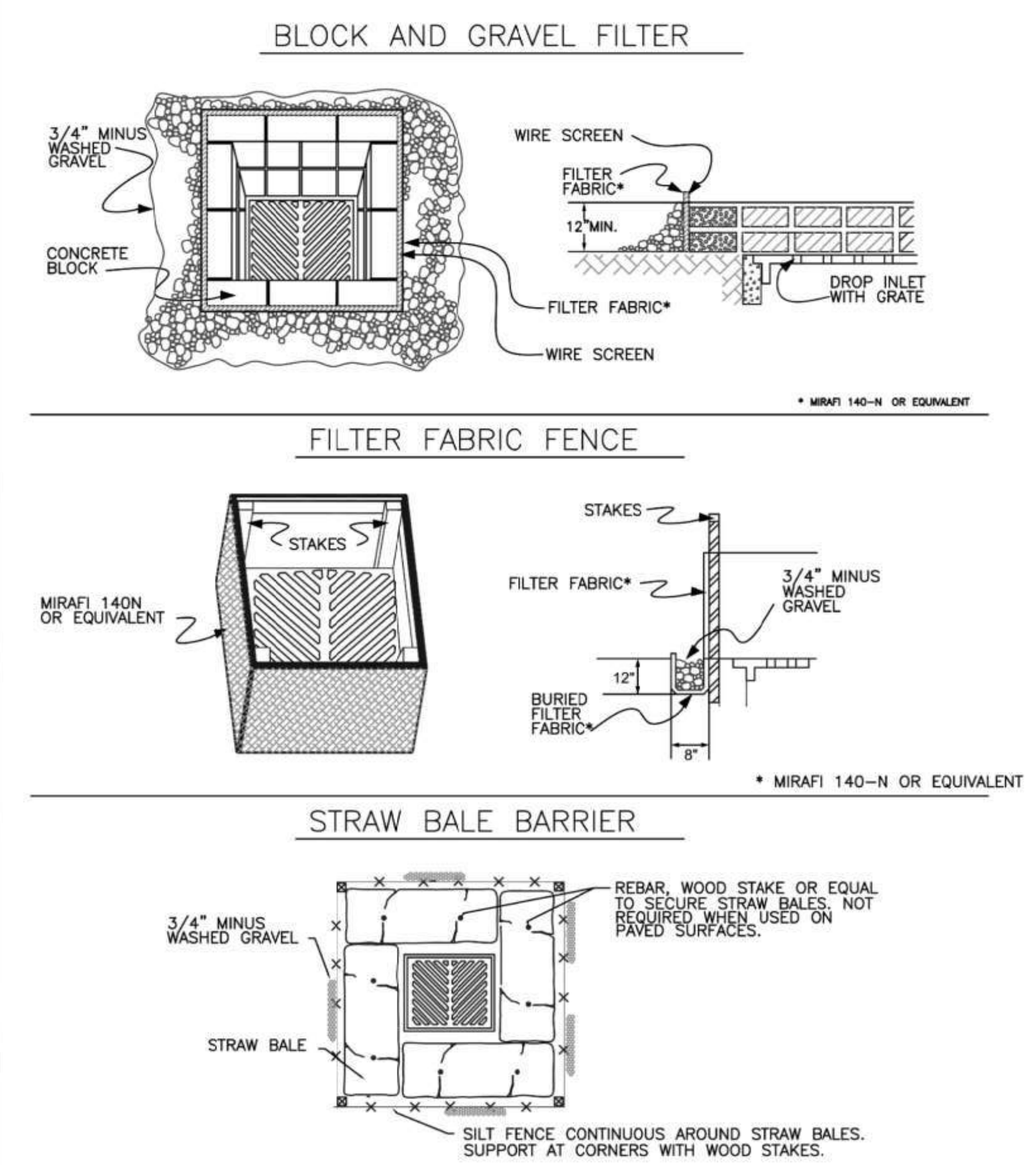
NOTES:

SILT FENCE SHALL BE INSTALLED ON CONTOUR OTHER INSTALLATIONS ARE NOT EXCEPTABLE.

*FILTER FABRIC TO BE DETERMINED BY DESIGN ENGINEER

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SILTATION FENCE — CITY STANDARD 02.03.02



BLOCK AND GRAVEL FILTER
3/4" MINUS WASHED GRAVEL
CONCRETE BLOCK
WIRE SCREEN
FILTER FABRIC*
12" MIN.
DROP INLET WITH GRATE
* MIRAFI 140-N OR EQUIVALENT
FILTER FABRIC FENCE
STAKES
MIRAFI 140N OR EQUIVALENT
3/4" MINUS WASHED GRAVEL
BURIED FILTER FABRIC
* MIRAFI 140-N OR EQUIVALENT
STRAW BALE BARRIER
3/4" MINUS WASHED GRAVEL
STRAW BALE
REBAR, WOOD STAKE OR EQUAL TO SECURE STRAW BALES. NOT REQUIRED WHEN USED ON PAVED SURFACES.
SILT FENCE CONTINUOUS AROUND STRAW BALES. SUPPORT AT CORNERS WITH WOOD STAKES.

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS — CITY STANDARD 02.03.05

CONDITIONS WHERE PRACTICE APPLIES

1. BLOCK AND GRAVEL FILTER – APPLICABLE FOR AREAS GREATER THAN 5% SLOPE.
2. FILTER FABRIC FENCE – APPLICABLE WHERE THE INLET DRAINS A RELATIVELY SMALL (ONE ACRE OR LESS) AND FLAT AREA (LESS THAN 5% SLOPE).
3. STRAW BALE BARRIER – APPLICABLE WHERE INLET DRAINS A RELATIVELY FLAT DISTURBED AREA (LESS THAN 5% SLOPE) IN WHICH SHEET FLOW (NOT EXCEEDING 0.5 FT/SEC.) OCCURES. BARRIERS OF THIS TYPE SHOULD NOT BE PLACED AROUND INLETS RECEIVING CONCENTRATED FLOWS SUCH AS THOSE ALONG MAJOR STREETS AND HIGHWAYS.

1. BLOCK AND GRAVEL FILTER – INSTALLATION PROCEDURE

A: PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF ONE FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE WIRE SCREEN WITH 1/2-INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC* OVER WIRE MESH.

B: PLACE CONCRETE BLOCKS LENGTHWISE ON THEIR SIDES IN A SINGLE ROW AROUND THE PERIMETER OF THE INLET, SO THAT THE OPEN ENDS FACE OUTWARD, NOT UPWARD. THE ENDS OF ADJACENT BLOCKS SHOULD ABUT. THE HIEGHT OF THE BARRIER CAN BE VARIED, DEPENDING ON DESIGN NEEDS, BY STACKING COMBINATIONS OF BLOCKS THAT ARE 4-INCH, 8-INCH AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BUT NO GREATER THAN 24-INCHES HIGH.

C: PLACE WIRE SCREEN OVER THE OVERSIDE VERTICAL FACE (OPEN END) OF THE CONCRETE BLOCKS TO PREVENT STONES FROM BEING WASHED THROUGH THE BLOCKS. USE WIRE SCREEN WITH 1/2-INCH OPENINGS.

D: PILE STONES AGAINST THE WIRE MESH TO THE TOP OF THE BLOCKS. USE 3/4" MINUS WASHED GRAVEL.

2. FILTER FABRIC FENCE – INSTALLATION PROCEDURE

A: PLACE 2-INCH BY 2-INCH WOODEN STAKES AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8-INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.

B: EXCAVATE A TRENCH APPROXIMATELY 8-INCHES WIDE AND 12-INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.

C: STAPLE THE FILTER FABRIC* TO THE WOODEN STAKES SO THAT 32-INCHES OF THE FABRIC EXTENDS AND CAN BE FORMED INTO THE TRENCH, AND USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2-INCHES LONG.

D: BACKFILL THE TRENCH WITH 3/4-INCH MINUS WASHED GRAVEL ALL THE WAY AROUND.

3. STRAW BALE BARRIER – INSTALLATION PROCEDURE

A: EXCAVATE A 4-INCH DEEP TRENCH AROUND THE INLET. MAKE THE TRENCH AS WIDE AS A STRAW BALE.

B: ORIENT STRAW BALES WITH THE BINDINGS AROUND THE SIDES OF THE BALES RATHER THAN OVER AND UNDER THE BALES.

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

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

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

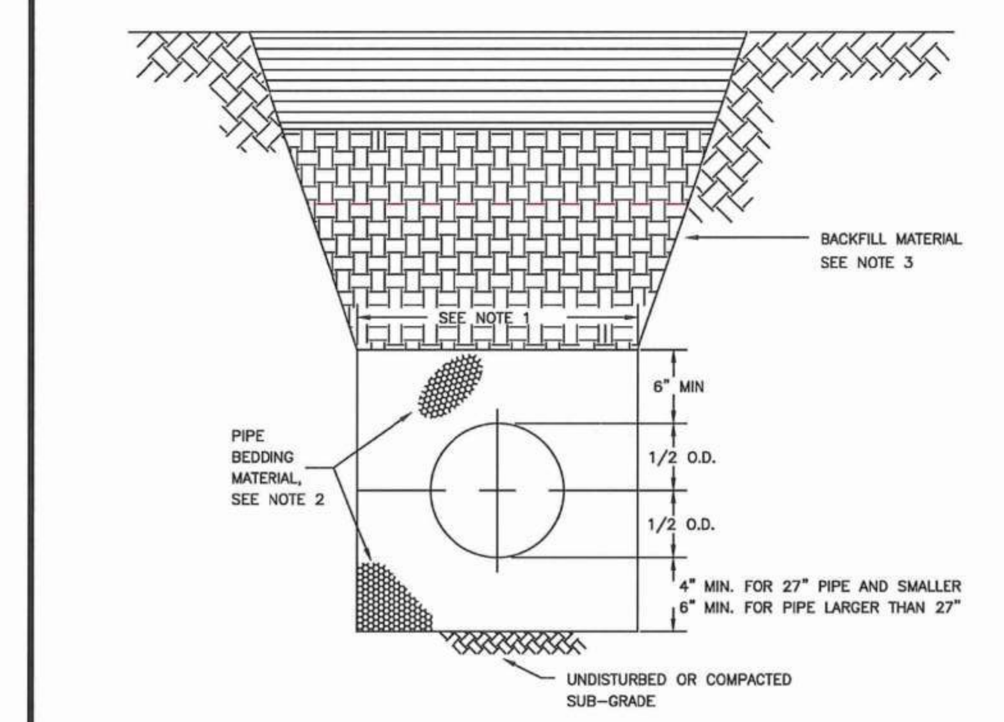
F: WEDGE LOOSE STRAW BETWEEN BALES TO PREVENT WATER FROM FLOWING BETWEEN BALES.

* MIRAFI 140-N OR EQUIVALENT

CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN BARRIERS NOTES

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
LINDA LANSING	LINDA LIAN	COLLEEN HARRIS	XXXX	02.03.06
FILE NAME: F:\DWG\COMMON\STDS\CITY\2009\02_SD\02.03.06		DATE APPROVED: 09/01/1992	DATE REVISED: 06/01/2003	SCALE: NTS



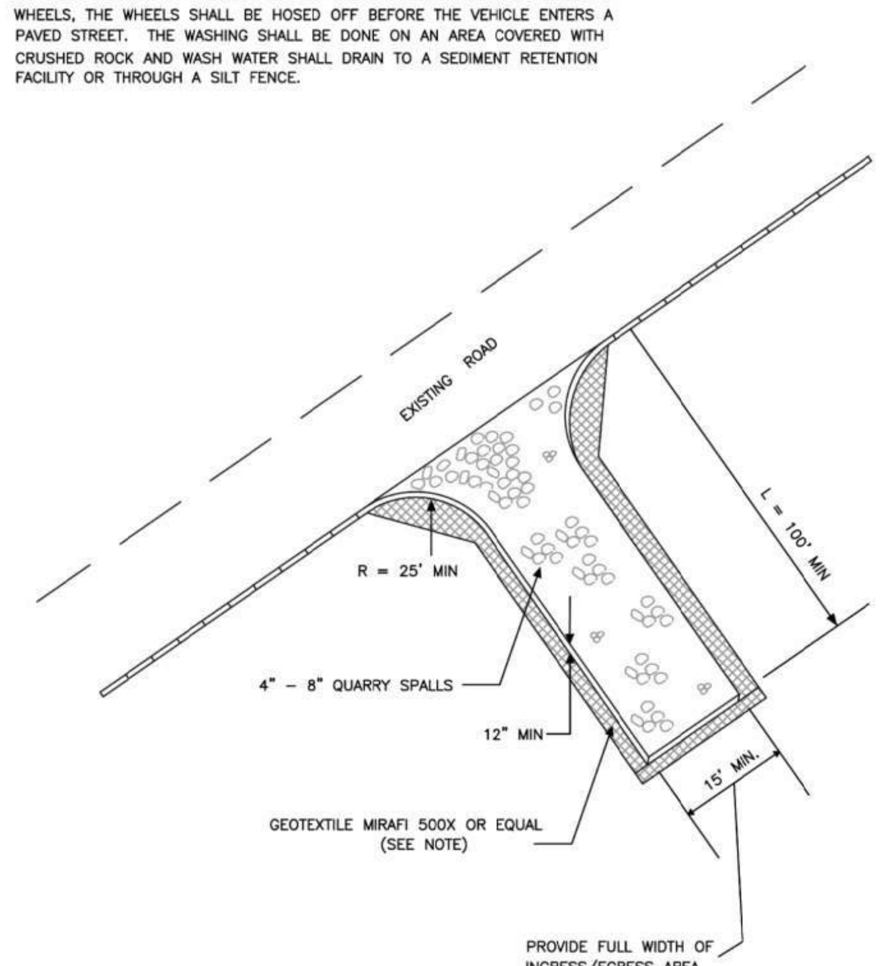
1. TRENCHING SHALL MEET THE REQUIREMENTS OF SECTION 7-08.3(1)A AND 2-06.3(1) OF THE WSDOT SPECIFICATIONS.
2. BEDDING MATERIAL SHALL CONFORM TO 9-03.12(3) GRAVEL BACKFILL FOR PIPE ZONE BEDDING.
3. GRAVEL BACKFILL SHALL CONFORM TO 9-03.12(1)A GRAVEL BACKFILL FOR FOUNDATIONS, CLASS A.

CITY OF PUYALLUP — OFFICE of THE CITY ENGINEER

PIPE TRENCHING BEDDING AND BACKFILL — CITY STANDARD 06.01.01

NOTE:

1. GEOTEXTILE MIRAFI 500 X OR APPROVED EQUAL SHALL BE PLACED UNDER THE ENTIRETY OF THE TEMPORARY ENTRANCE.
2. ADDITIONAL ROCK SHALL BE ADDED PERIODICALLY TO MAINTAIN PROPER FUNCTION OF THE PAD.
3. IF THE PAD DOES NOT ADEQUATELY REMOVE THE MUD FROM THE VEHICLE'S WHEELS, THE WHEELS SHALL BE HOSED OFF BEFORE THE VEHICLE ENTERS A PAVED STREET. THE WASHING SHALL BE DONE ON AN AREA COVERED WITH CRUSHED ROCK AND WASH WATER SHALL DRAIN TO A SEDIMENT RETENTION FACILITY OR THROUGH A SILT FENCE.



CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

TEMPORARY CONSTRUCTION ENTRANCE — CITY STANDARD 05.01.01

1. ALL LIMITS OF CLEARING AND AREAS OF VEGETATION PRESERVATION AS PRESCRIBED ON THE PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD AND OBSERVED DURING CONSTRUCTION.

2. ALL REQUIRED SEDIMENTATION AND EROSION CONTROL FACILITIES MUST BE CONSTRUCTED AND IN OPERATION PRIOR TO ANY LAND CLEARING AND/OR OTHER CONSTRUCTION TO ENSURE THAT SEDIMENT LADEN WATER DOES NOT ENTER THE NATURAL DRAINAGE SYSTEM. THE CONTRACTOR SHALL SCHEDULE AN INSPECTION OF THE EROSION CONTROL FACILITIES PRIOR TO ANY LAND CLEARING AND/OR CONSTRUCTION. ALL EROSION AND SEDIMENT FACILITIES SHALL BE MAINTAINED IN A SATISFACTIRY CONDITION AS DETERMINED BY THE CITY, UNTIL SUCH TIME THAT CLEARING AND/OR CONSTRUCTION IS COMPLETED AND THE POTENTIAL FOR ON-SITE EROSION HAS PASSED. THE IMPLEMENTATION, MAINTENANCE, REPLACEMENT, AND ADDITIONS TO THE EROSION AND SEDIMENTATION CONTROL SYSTEMS SHALL BE THE RESPONSIBILITY OF THE PERMITEE.

3. THE EROSION AND SEDIMENTATION CONTROL SYSTEM FACILITIES DEPICTED ON THESE PLANS ARE INTENDED TO BE MINIMUM REQUIREMENTS TO MEET ANTICIPATED SITE CONDITIONS. AS CONSTRUCTION PROGRESSES AND UNEXPECTED OR SEASONAL CONDITIONS DICTATE, FACILITIES WILL BE NECESSARY TO ENSURE COMPLETE SILTATION CONTROL ON THE SITE. DURING THE COURSE OF CONSTRUCTION, IT SHALL BE THE OBLIGATION AND RESPONSIBILITY OF THE PERMITEE TO ADDRESS ANY NEW CONDITIONS THAT MAY BE CREATED BY HIS ACTIVITIES AND TO PROVIDE ADDITIONAL FACILITIES, OVER AND ABOVE THE MINIMUM REQUIREMENTS, AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES, SENSITIVE AREAS, NATURAL WATER COURSES, AND/OR STORM DRAINAGE SYSTEMS.

4. APPROVAL OF THESE PLANS IS FOR GRADING, TEMPORARY DRAINAGE, EROSION AND SEDIMENTATION CONTROL ONLY. IT DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT STORM DRAINAGE DESIGN, SIZE OR LOCATION OF PIPES, RESTRICTORS, CHANNELS, OR RETENTION FACILITIES.

5. ANY DISTURBED AREA WHICH HAS BEEN STRIPPED OF VEGETATION AND WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 30 DAYS OR MORE, MUST BE IMMEDIATELY STABILIZED WITH MULCHING, GRASS PLANTING, OR OTHER APPROVED EROSION CONTROL TREATMENT APPLICABLE TO THE TIME OF YEAR IN QUESTION. GRASS SEEDING ALONE WILL BE ACCEPTABLE ONLY DURING THE MONTHS OF APRIL THROUGH SEPTEMBER INCLUSVE. SEEDING MAY PROCEED OUTSIDE THE SPECIFIED TIME PERIOD WHENEVER IT IS IN THE INTEREST OF THE PERMITEE BUT MUST BE AUGMENTED WITH MULCHING, NETTING, OR OTHER TREATMENT APPROVED BY THE CITY.

6. IN CASE EROSION OR SEDIMENTATION OCCURS TO ADJACENT PROPERTIES, ALL CONSTRUCTION WORK WITHIN THE DEVELOPMENT THAT WILL FURTHER AGGRAVATE THE SITUATION MUST CEASE, AND THE OWNER/CONTRACTOR WILL IMMEDIATELY COMMENCE RESTORATION METHODS. RESTORATION ACTIVITY WILL CONTINUE UNTIL SUCH TIME AS THE AFFECTED PROPERTY OWNER IS SATISFIED.

7. NO TEMPORARY OR PERMANENT STOCKPILING OF MATERIALS OR EQUIPMENT SHALL OCCUR WITHIN CRITICAL AREAS OR ASSOCIATED BUFFERS, OR THE CRITICAL ROOT ZONE FOR VEGETATION PROPOSED FOR RETENTION.

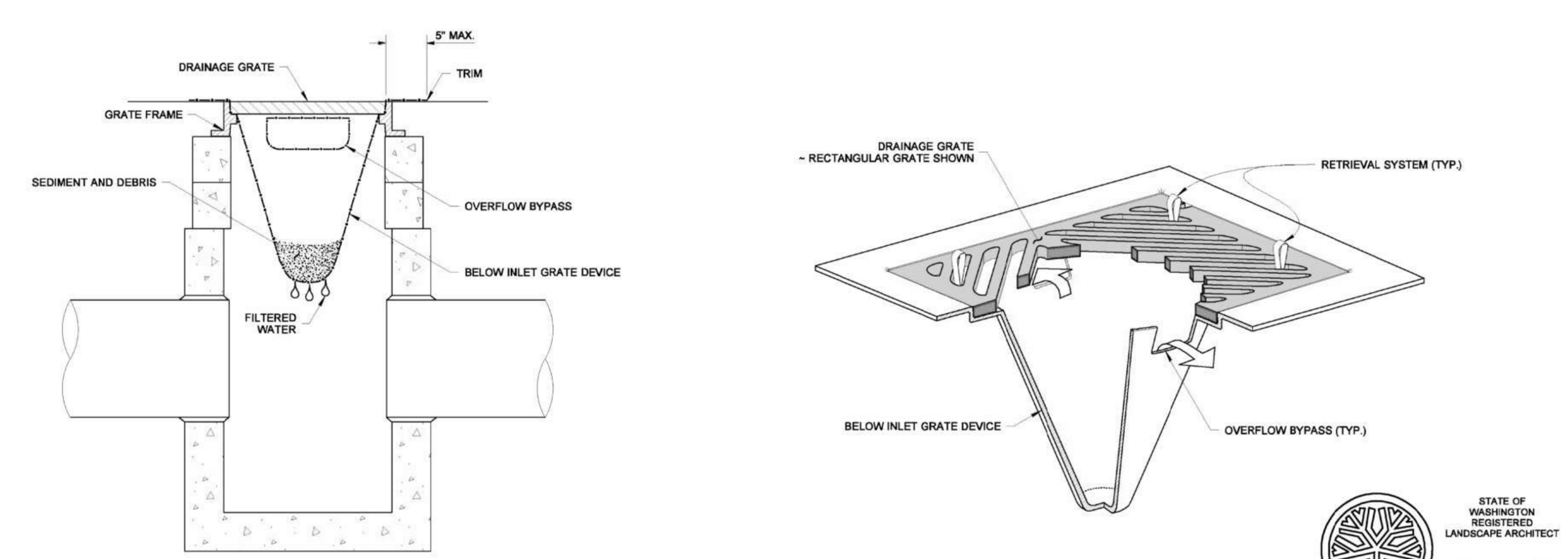
CITY OF PUYALLUP — DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

GRADING, EROSION, AND SEDIMENTATION CONTROL NOTES — CITY STANDARD 05.02.01

DRAWN BY: LISA CYFORD

NOTES

1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
3. The retrieval system must allow removal of the BIGD without spilling the collected material.
4. Perform maintenance in accordance with Standard Specification 8-01.3(15).



SECTION VIEW
NOT TO SCALE

ISOMETRIC VIEW

STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT — MARK W. MAURER — CERTIFICATE NO. 000598

STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40.20-00
SHEET 1 OF 1 SHEET
APPROVED FOR PUBLICATION
Pasco Bakotich III 09-20-07
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE 7/19/2022

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SillyVille Train Expansion

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JUSTIN M. JONES — STATE OF WASHINGTON — 41829 — REGISTERED PROFESSIONAL ENGINEER — 07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ

PROJ NO: 1507-002-08

DATE: July 08, 2022

SHEET NAME: Temporary Erosion & Sediment Control Details

DWG: C2-201

10 OF 23

File: 1507-002-08-TESC.dwg Path: J:\1507 - Washington State Fair\1507-002-08 SillyVille Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 2:45:58pm

Restroom Building
Remove Existing Railway Tracks Approx. 469 LF
Remove Existing Railway Tracks Approx. 463 LF
Landscape Area (Typ.)
Sillyville Train Station
Concrete Pavement (Typ.)
Protect and Maintain Existing 6" DEC Tree
Protect and Maintain Existing 6" DEC Tree
Protect and Maintain Existing 6" DEC Tree
87.9'
Existing Building
Protect & Maintain Existing Street Light (Typ.)
Remove Existing Chain Link Fence Approx. 104 LF
Maintain Existing Asphalt Area
17.5'
16.1'
Asphalt Pavement
165.7'
11.5'
Remove Existing Gravel Area: 263 SF-0.006 ac
Protect & Maintain Existing Asphalt Pathway
Remove Existing Landscape Area: 1,981 SF-0.045 ac
Remove Existing Landscape Area: 33 SF-0.001 ac
Remove Existing Gravel Area: 590 SF-0.014 ac
77.4'
Remove Existing Landscape Area: 711 SF-0.016 ac
Protect and Maintain Existing 6" DEC Tree
Remove Existing Chain Link Fence Approx. 447 LF
Remove Existing Landscape Area: 1,150 SF-0.026 ac
40.0'
46.8'
Remove Existing 8" DEC Tree
Remove Existing 6" DEC Tree
Remove Existing Gravel Area: 536 SF-0.012 ac
41.1'
Remove Existing Asphalt Pavement Area: 469 SF-0.011 ac
Protect & Maintain Existing 16" CON Cedar Tree
Remove Existing 9" DEC Tree
17.0'
19.9'
Protect & Maintain Existing Concrete Transformer Pad
Protect and Maintain Existing Landscape Strip
18.6'
15.8'
32.2'
Protect and Maintain Existing Tree (Typ.)
Remove Existing Tree (Typ.)
Protect & Maintain Existing Water Meter & Backflow Assembly
15.1'
Protect & Maintain Portion of Existing Asphalt Pathway
Remove Existing 8" DEC Tree
Remove Existing Rail Fence Approx. 78 LF
55.6'
Remove Existing Concrete Wall Planter Width: 1'
Remove Existing Landscape Area: 291 SF-0.007 ac
Protect & Maintain Existing Shed
Remove Existing Fence Approx. 255 LF
Protect & Maintain Existing Building
21.0'
40.0'
88.0'
15.0'
28.4'
17.1'
Protect and Maintain Existing 10" DEC Tree
98.3'
Protect & Maintain Existing Asphalt Pathway
Protect & Maintain Existing Gravel Area
Remove Existing Gravel Area: 1,075 SF-0.025 ac
Remove Existing Asphalt Pavement Area: 2,699 SF-0.062 ac
Remove Existing Gravel Area: 4,341 SF-0.100 ac
Staging Area
149.1'
45.5'
148.0'
16.5'
Clearing Limits (Typ.)
Protect and Maintain Existing 10" DEC Tree
15.0'
25.3'
Remove Existing Gravel Area: 2,461 SF-0.056 ac
Protect and Maintain Existing Fair Parking Lot
Protect & Maintain Existing Fire Hydrant
15.4'
Protect and Maintain Existing 8" DEC Tree
Protect & Maintain Existing Gravel Area
Sawcut & Remove Existing Asphalt (Typ.)
Protect & Maintain Existing Fire Hydrant
20.4'
35.3'
34.1'
Existing Power Panel
Protect & Maintain Existing Gravel Area
Protect and Maintain Existing 6" DEC Tree
50.3'
Protect & Maintain Existing Concrete Transformer Pad
333.6'
Existing Asphalt Pavement
Green Gate
4" PVC

GENERAL NOTES

1. Contractor to instill protection devices for trees proposed for retention

LEGEND

- Remove Existing Asphalt Pavement
- Remove Existing Landscaping Area
- Remove Existing Gravel Area
- Remove Existing Concrete Pavement
- Existing Landscaping Area
- Existing Asphalt Pavement
- Existing Gravel Area
- Existing Concrete Pavement
- Existing Building
- Staging Area
- Remove Existing Chain Link Fence
- Remove Existing Fence
- Remove Existing Train Tracks
- Sawcut Existing Pavement
- Clearing Limits
- Remove Existing Tree

Existing Surfaces to be Removed

Surface	Area (sf)	Area (ac)
Landscaping	4,169	0.096
Gravel	8,987	0.206
Asphalt	4,021	0.092
Ballast	853	0.020
Total	18,030	0.414

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY Lance D. Hendrickson
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL DATE.
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FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

0 20 40 ft
1" = 20'

CALL TWO BUSINESS DAYS BEFORE YOU DIG
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UTILITIES UNDERGROUND LOCATION CENTER

Owner/Developer:
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41826
REGISTERED PROFESSIONAL ENGINEER
07-08-22

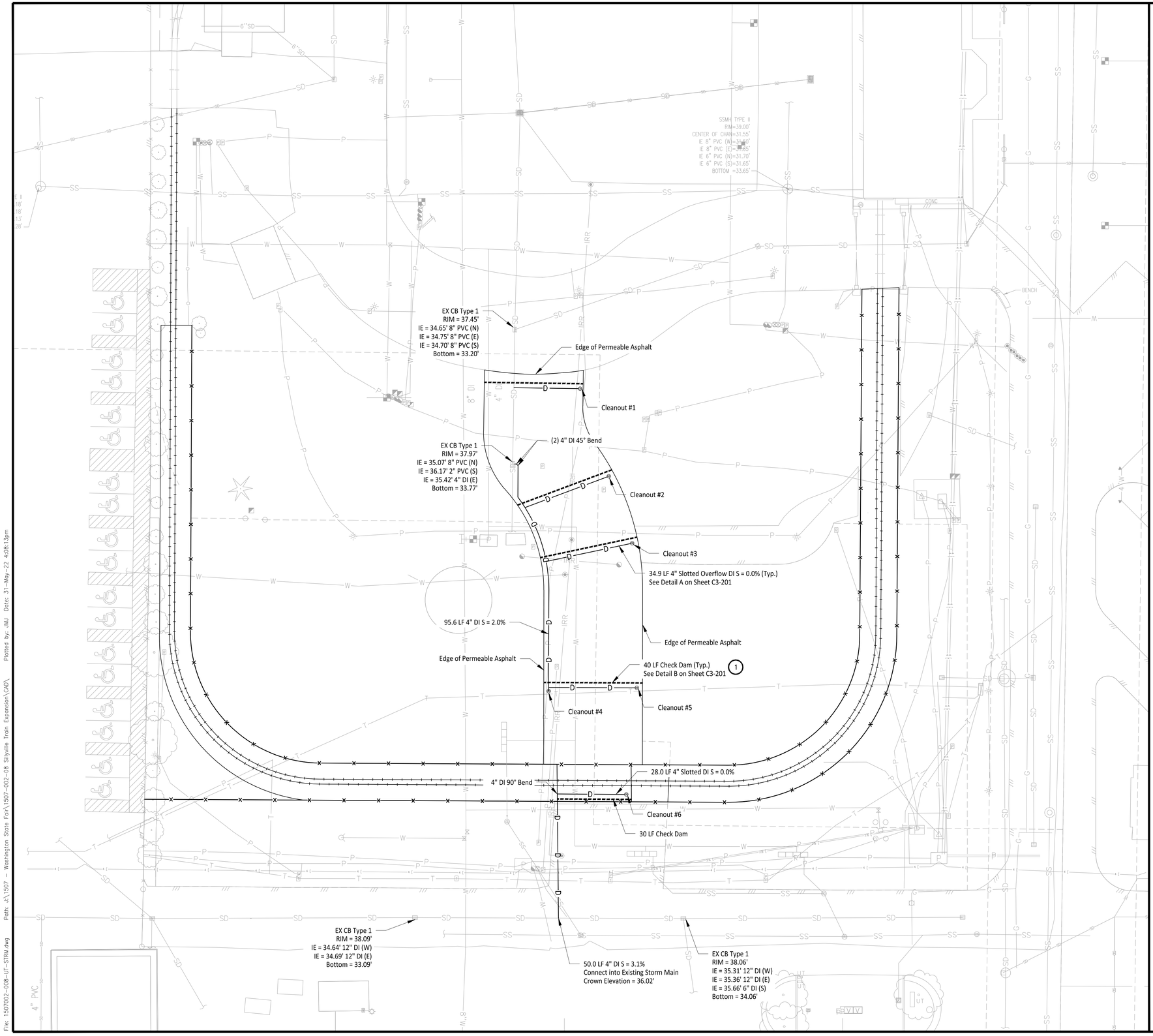
REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY:
DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Demolition Plan

DWG.
C2-301
11 OF 23

File: 1507002-008-DM-HS.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 4:09:49pm



CONSTRUCTION NOTES

1. Check Dam to be installed under Permeable Pavement to maintain stormwater separation in pathways. See section B on Sheet C3-201.
2. Permeable Pavements to include 4" Slotted PVC underdrains with Solid Wall PVC connection to Catch Basins. See Section A on Sheet C3-201 for Details.

GENERAL NOTES

1. Contractor to Pothole, locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.
2. Cleanouts shall be Installed at each change of direction greater than 45 degrees in storm lines. Where more than one change of direction occurs in a run of piping, only one cleanout shall be required for each 40 feet of developed length of drainage piping.

Storm Structure Table

Elevation Point	Rim Elevation (ft)	Invert Elevation (ft)
Cleanout #1	38.03	35.38
Cleanout #2	38.51	36.54
Cleanout #3	38.87	36.98
Cleanout #4	39.32	37.32
Cleanout #5	39.26	38.00
Cleanout #6	39.39	36.57

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

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SillyVille Train Expansion

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STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
07-08-22

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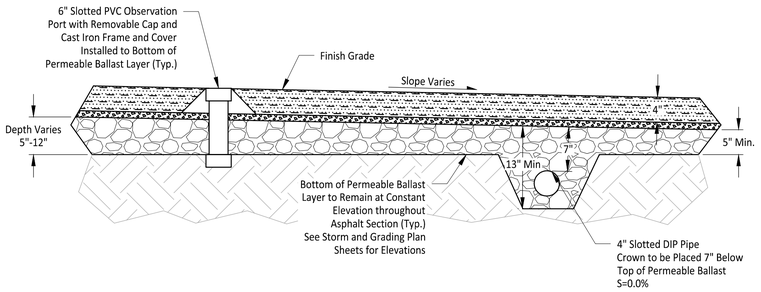
DATE: July 08, 2022

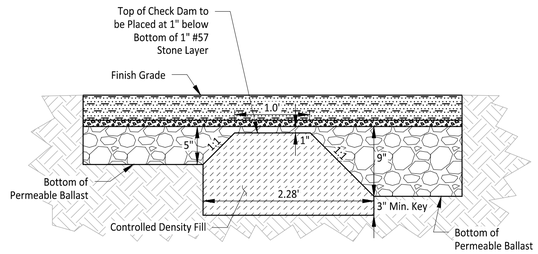
SHEET NAME
Storm Plan

DWG.
C3-101
12 OF 23

File: 1507002-008-UT-STRM.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 4:08:13pm



Permeable Asphalt Pavement Underdrain
SECTION A
1" = 1' C3-201



Permeable Asphalt Check Dam
SECTION B
1" = 1' C3-201

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Building	Planning
Engineering	Public Works
Fire	Traffic

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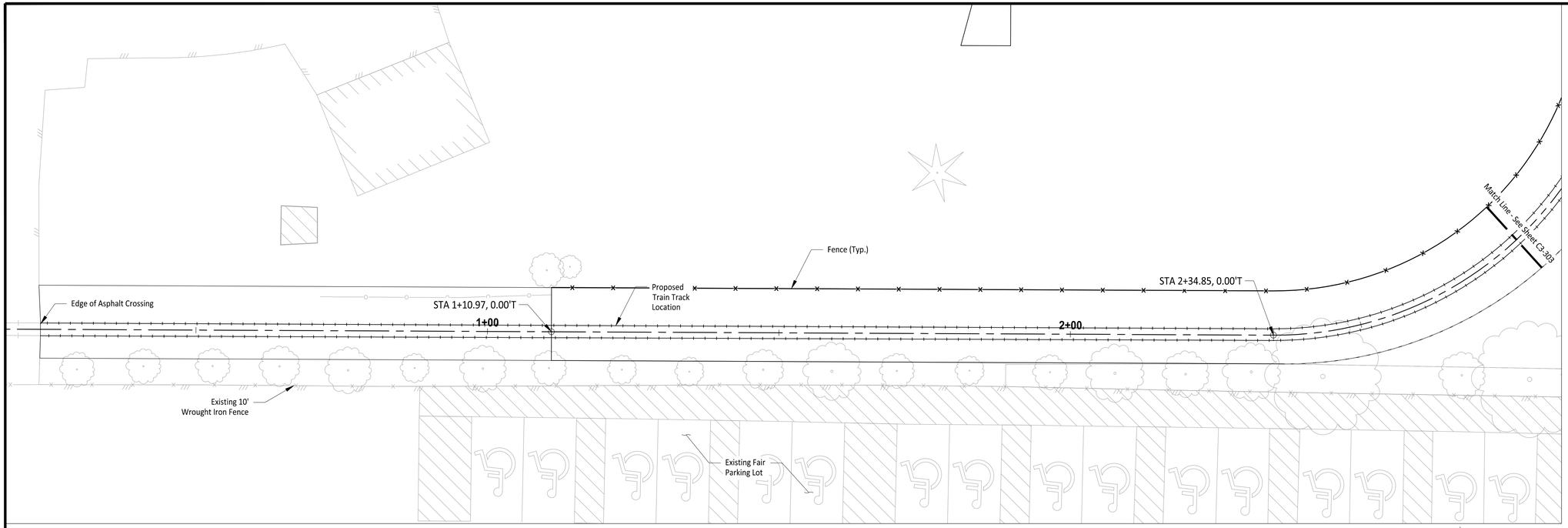
DATE:	July 08, 2022

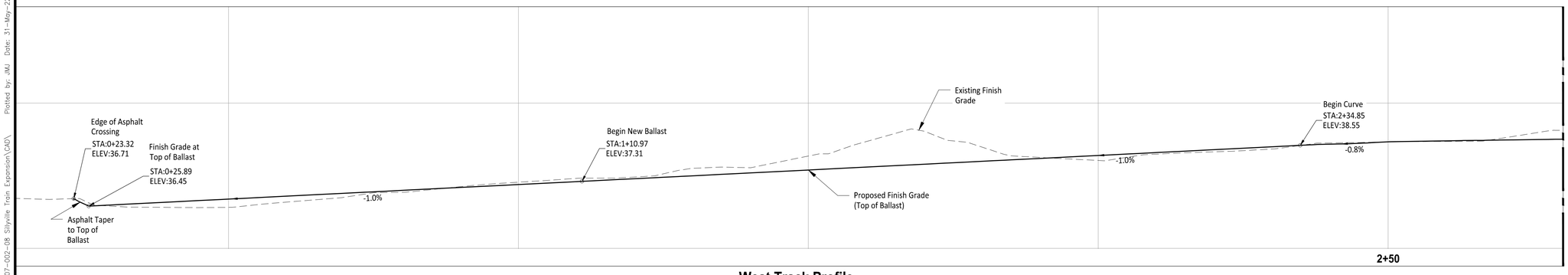
SHEET NAME
Storm Details

DWG.
C3-201
13 OF 23



0 10 20 ft

1" = 10'



West Track Profile

HORIZ: 1" = 10'
VERT: 1" = 5'

City of Puyallup
Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

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(206) 596-2020

Project:

SillyVille Train Expansion

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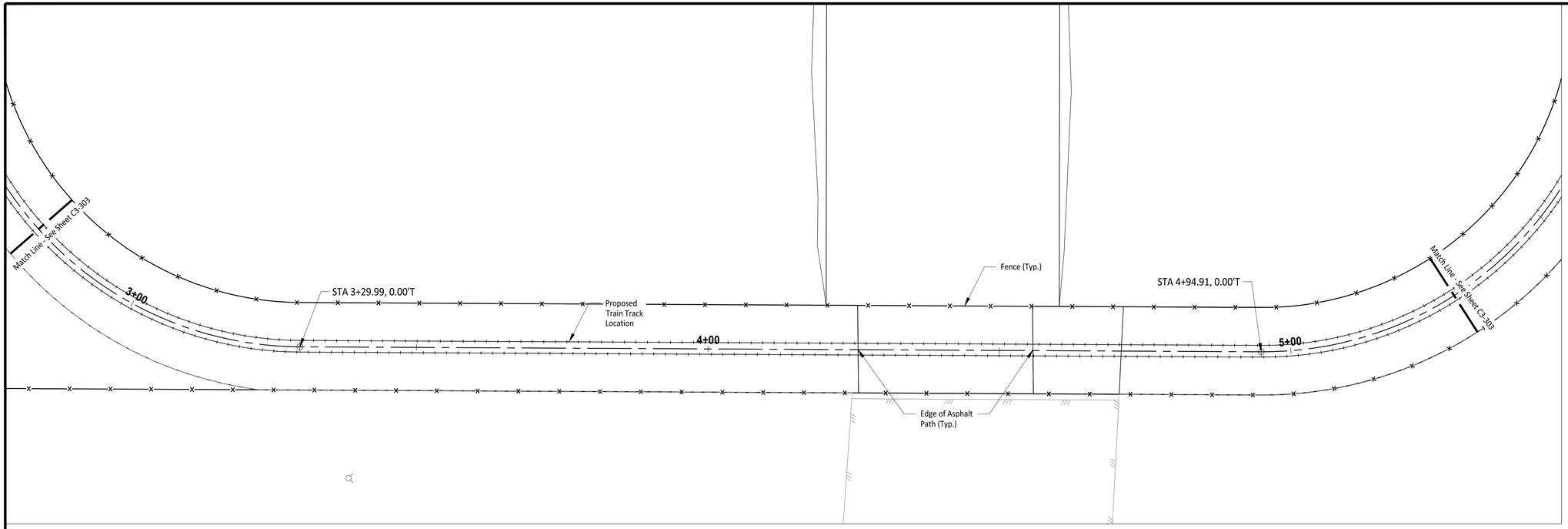
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Track Plan & Profile

DWG.
C3-302

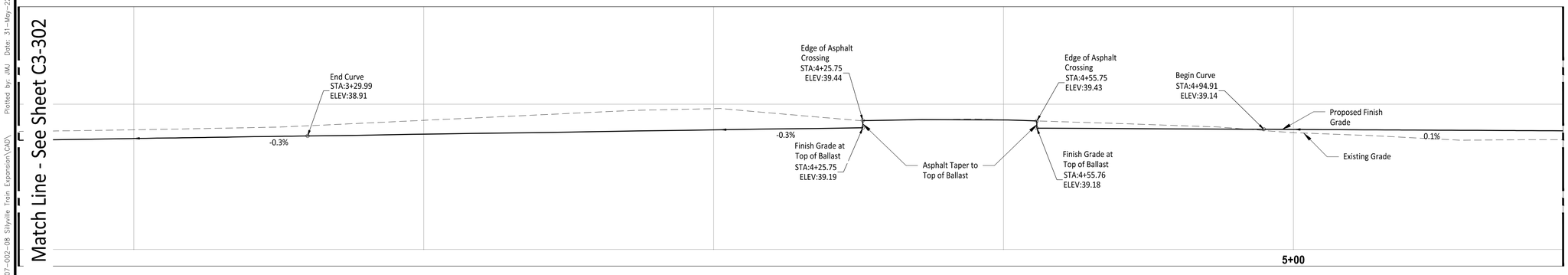
14 OF 23

File: 1507002-008-Track Plan & Profile.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 3:05:58pm



0 10 20 ft

1" = 10'



South Track Profile

HORIZ: 1" = 10'
VERT: 1" = 5'

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Development & Permitting Services
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Building	Planning
Engineering	Public Works
Fire	Traffic

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(253) 841-5356

Architect:

Engineer:

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Sumner, WA 98390
(206) 596-2020

Project:

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PROJ. NO: 1507-002-08

DATE: July 08, 2022

SHEET NAME

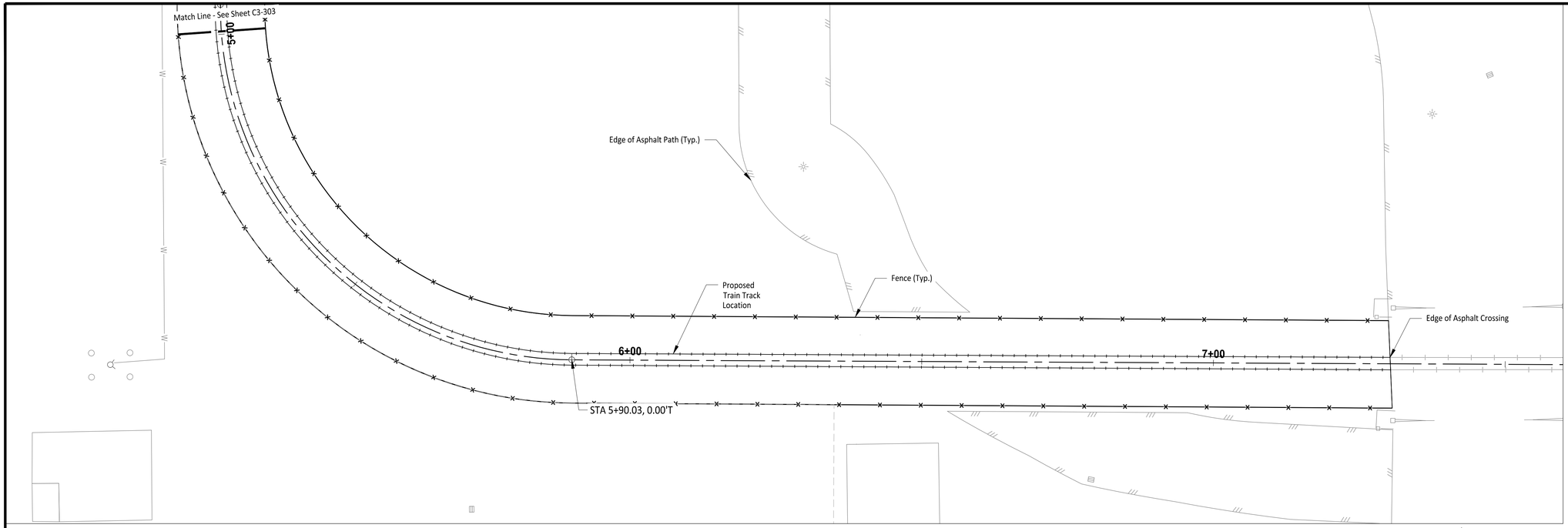
Track Plan & Profile

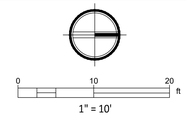
DWG.

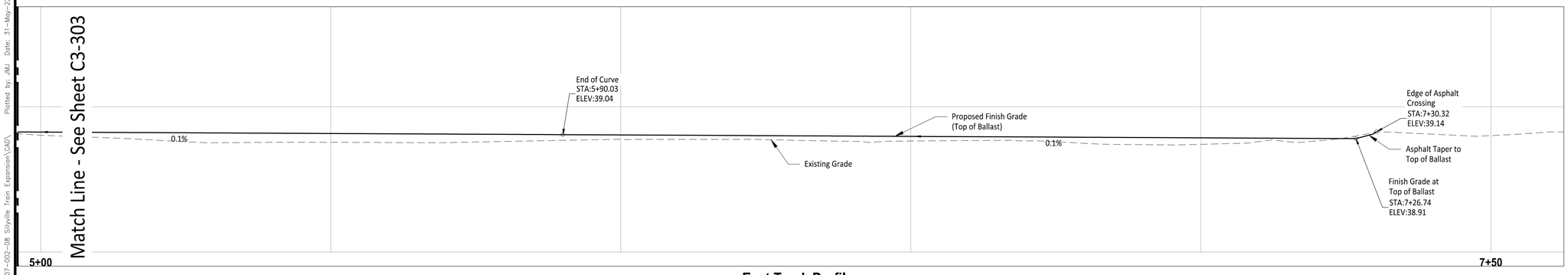
C3-303

15 OF 23

File: 1507002-008-Track Plan & Profile.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 3:07:24pm







East Track Profile

HORIZ: 1" = 10'
VERT: 1" = 5'

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CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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Engineering	Public Works
Fire	Traffic

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PUYALLUP
Washington State Fair
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(253) 841-5356

Architect:

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JMJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED
PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
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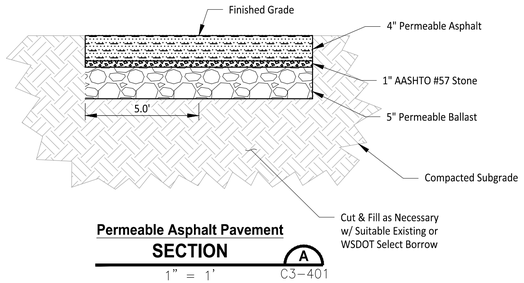
DRAWN BY:	DESIGN BY: JJ
PROJ. NO:	1507-002-08
DATE:	July 08, 2022

SHEET NAME
Track Plan & Profile

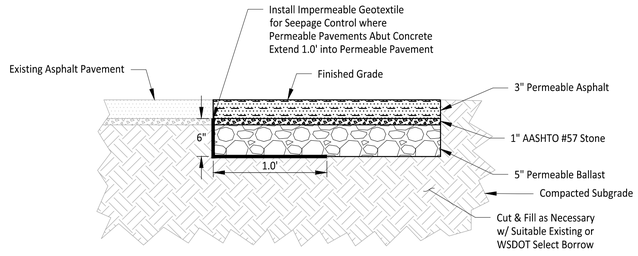
DWG.
C3-304

16 OF 23

File: 1507002-008-Track Plan & Profile.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 3:08:37pm



Permeable Asphalt Pavement
SECTION A
1" = 1' C3-401



Transition
Permeable/Existing Asphalt
SECTION C
1" = 1' C3-401

Landscaping
SECTION B
1" = 1' C3-401

Raild Road
SECTION D
1" = 2' C3-401

NOTES:
1. ALL SOIL AREAS DISTURBED OR COMPACTED DURING CONSTRUCTION, AND NOT COVERED BY BUILDINGS OR PAVEMENT, SHALL BE AMENDED WITH COMPOST AS DESCRIBED BELOW.
2. SUBSOIL SHOULD BE SCARIFIED (LOOSENED) 4 INCHES BELOW AMENDED LAYER, TO PRODUCE 12-INCH DEPTH OF UN-COMPACTED SOIL, EXCEPT WHERE SCARIFICATION WOULD DAMAGE TREE ROOTS OR AS DETERMINED BY THE ENGINEER. SEE NOTE BELOW REGARDING PLANTING STEPS FOR STREET TREES.
3. COMPOST SHALL BE TILLED IN TO 8 INCH DEPTH INTO EXISTING SOIL, OR PLACE 8 INCHES OF COMPOST-AMENDED SOIL, PER SOIL SPECIFICATION.
4. PLANTING BEDS SHALL RECEIVE 3 INCHES OF COMPOST TILLED IN TO 8-INCH DEPTH, OR MAY SUBSTITUTE 8" OF IMPORTED SOIL CONTAINING 35-40% COMPOST BY VOLUME. MULCH AFTER PLANTING, WITH 4 INCHES OF ARBORIST WOOD CHIP MULCH OR APPROVED EQUAL (6" OF LOOSE WOOD CHIPS AT THE TIME OF PLANTING TO ALLOW SETTLING TO 4").
5. SETBACKS: TO PREVENT UNEVEN SETTLING, DO NOT COMPOST-AMEND SOILS WITHIN 3 FEET OF UTILITY INFRASTRUCTURES (POLES, VAULTS, METERS ETC.) WITHIN ONE FOOT OF PAVEMENT EDGE, CURBS AND SIDEWALKS SOIL SHOULD BE COMPACTED TO APPROXIMATELY 85% PROCTOR TO ENSURE A FIRM SURFACE.
6. SEE SECTION 8.23(8) OF THE VMS FOR SOIL AMENDMENT AND INSTRUCTION PROCEDURES FOR STREET TREE PLANTER STRIPS. ALL STREET TREE PLANTER STRIPS SHALL RECEIVE 40% COMPOST AMENDED SOIL TO THE FULL DEPTH OF THE STREET TREE ROOTBALL.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

SOIL AMENDMENT AND DEPTH

DRAWN BY:	CHECKED BY:	APPROVED BY:	REVISED BY:	CITY STANDARD
LINDA LIAN	CHRIS BEALE	COLLEEN HARRIS	XXXX	
FILE NAME: P:\ENGCOMMON\STDS\CITYSTDSITEM1.01.08		DATE APPROVED: 08/01/2019	DATE REVISED: XX/XX/XX	SCALE: 1:1	01.02.08a

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

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Engineering	Public Works
Fire	Traffic

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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SillyVille Train Expansion

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JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
07-08-22

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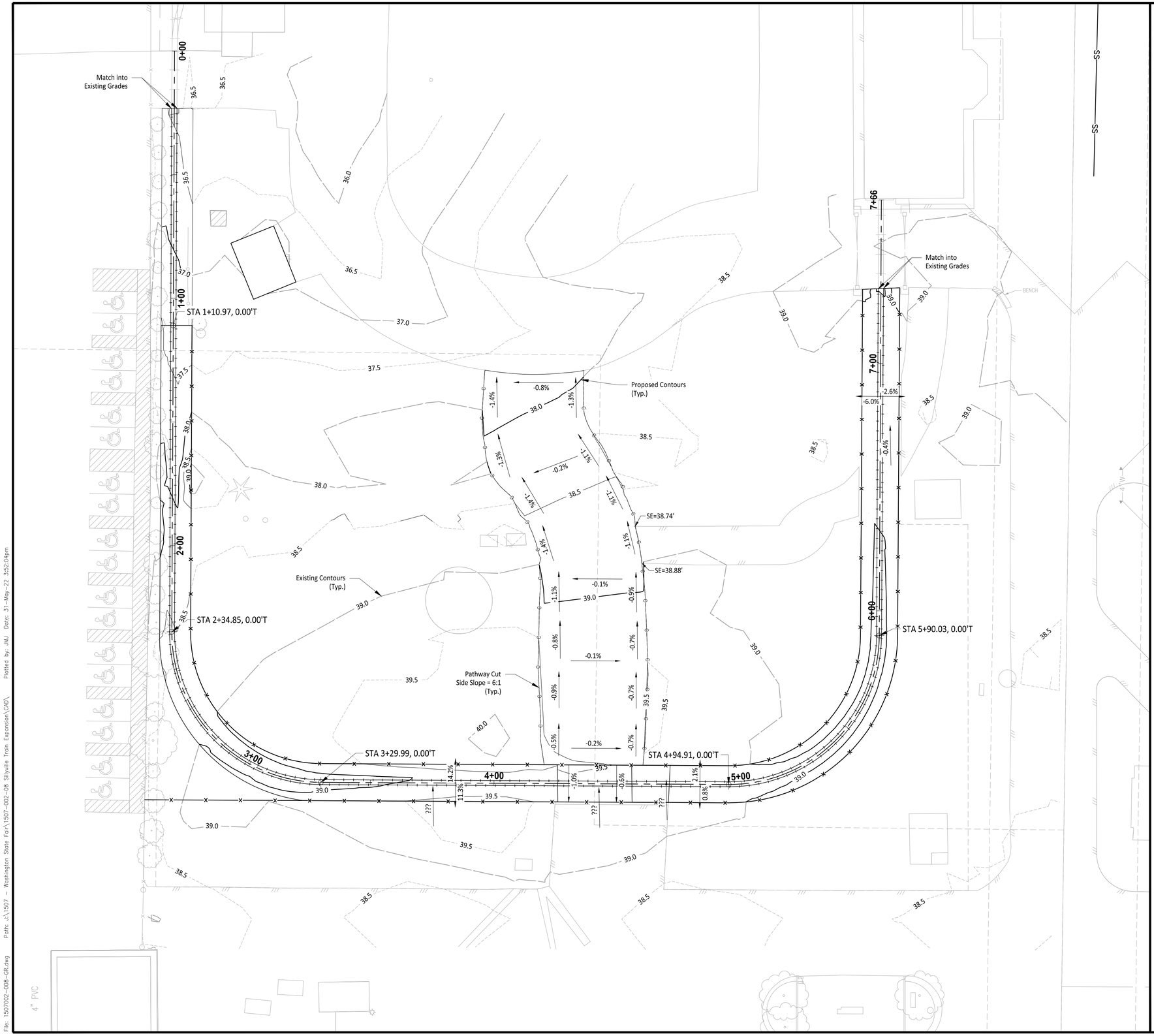
DRAWN BY:	DESIGN BY: JJ
PROJ.NO:	1507-002-08
DATE:	July 08, 2022

SHEET NAME
Hardscape Details

DWG.
C3-401
17 OF 23

File: 1507002-008-HS-101.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 3:28:18pm



City of Puyallup
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SHEET NAME
Grading Plan

DWG.
C3-501
18 OF 23

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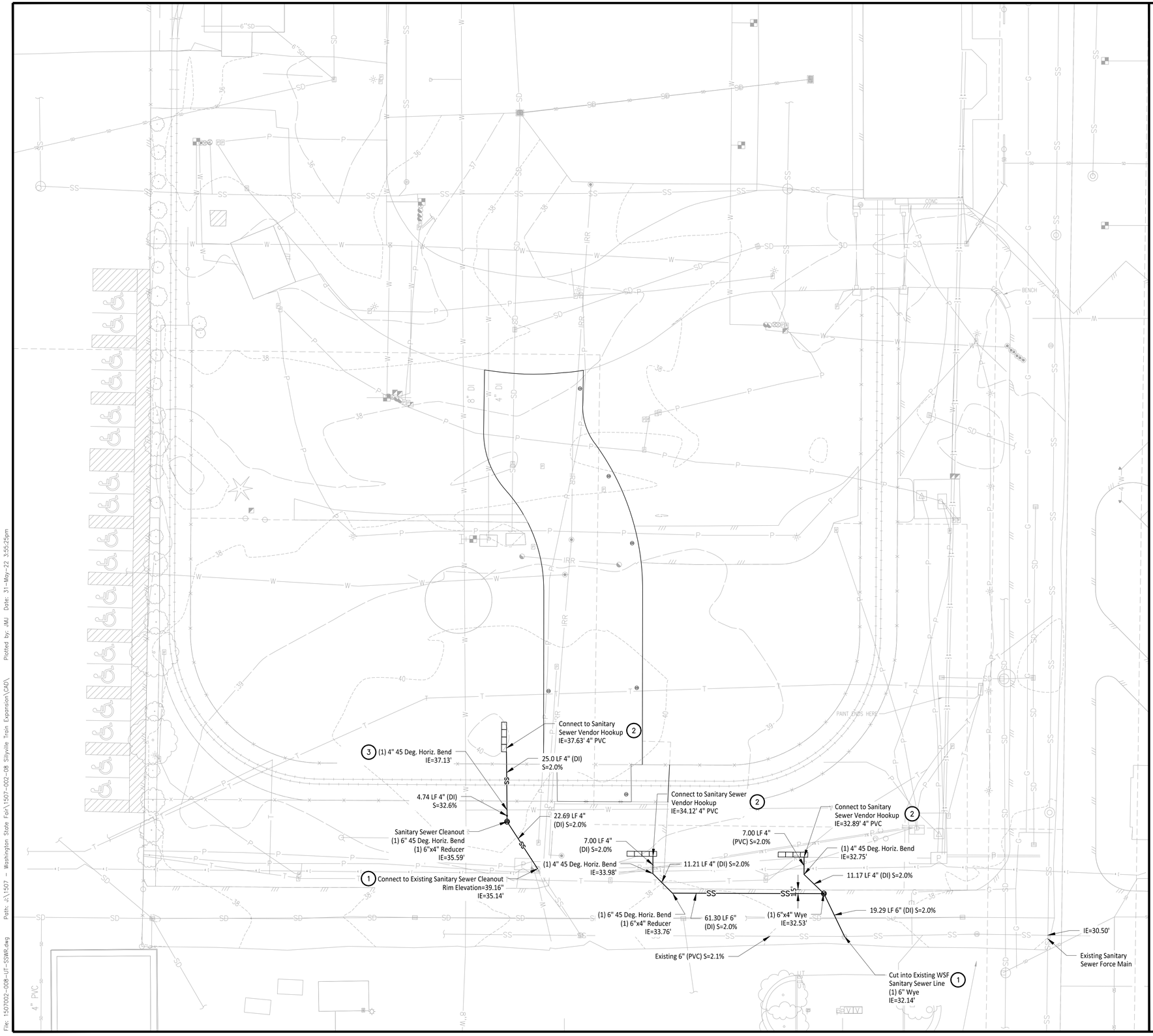

CONSTRUCTION NOTES

1. Install Commercial Side Sewer Connection per City of Puyallup Standard Detail 04.03.04 on Sheet C4-201.
2. Domestic Water and Sanitary Sewer Vendor Hook Ups to be Installed per Detail A on Sheet C4-201.
3. Contractor to maintain minimum between pipe crossings with less than 18" of vertical clearance. The sleeve shall be O.D. x O.D. x 2.5 inches thick minimum or as required to protect the pipes. Above O.D. is equal to the outside diameter of the large pipe. The pad shall be a polyethylene foam plank (Dow Plastics Ethafoam 220), or approved equal. See Detail B on Sheet C4-201 for detail, and Sheet C5-202 for City of Puyallup Utility Crossing Standard Details.

City of Puyallup
Development & Permitting Services
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GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.

0 20 40 ft
1" = 20'

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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

CALL TWO BUSINESS DAYS BEFORE YOU DIG
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UTILITIES UNDERGROUND LOCATION CENTER

Owner/Developer:
Washington STATE FAIR PUYALLUP
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
JMJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
07-08-22

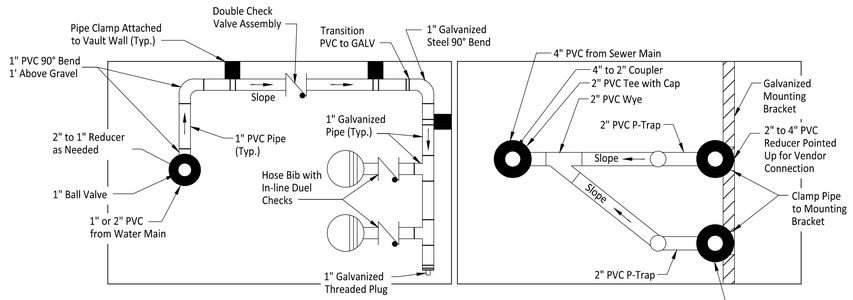
REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: | DESIGN BY: JJ
PROJ. NO: 1507-002-08
DATE: July 08, 2022

SHEET NAME
Sanitary Sewer Plan

DWG.
C4-101
19 OF 23

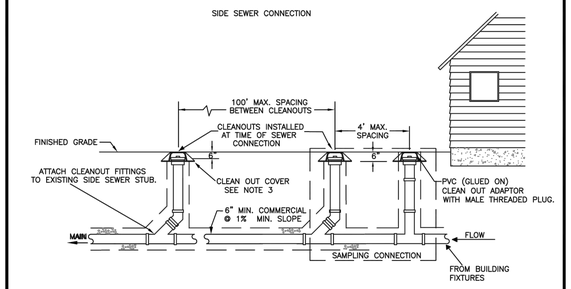
File: 1507002-008-UT-SSWR.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 3:55:25pm



NOTES

1. Hose bibs and sewer connections to be no more than 6" below vault lid.
2. Water vault lid to have two inch hole above each hose bib.
3. Sewer vault lid to have to have four-inch hole directly above 2" to 4" PVC reducer.
4. Vault to be Type 3 24" by 36" with one 12" riser and two diamond plate double hinged H20 rated lids.
5. Bottom of vault to be backfilled with pea gravel.
6. All pipe clamps to be stainless steel.

WATER & SEWER VENDOR CONNECTION
DETAIL A
1" = 1' C4-201



NOTES:

1. SAMPLING CONNECTION SHALL BE INSTALLED OUT SIDE WITH UNOBSTRUCTED ACCESS AT ALL TIMES.
2. A SAMPLING CONNECTION SHALL BE INSTALLED FOR EACH COMMERCIAL / RETAIL UNIT OR SPACE.
3. CLEAN OUT AND SAMPLING CONNECTION COVERS:
   A) FOR NON-VEHICULAR TRAFFIC INSTALLATIONS USE "CARSON" MODEL 910 GREEN YARD BOX WITH BOLT DOWN LID MARKED SEWER OR APPROVED EQUAL.
   B) FOR ASPHALT, GRAVEL, OR TRAFFIC INSTALLATIONS SEE CITY STANDARD DETAIL NO. 04.03.05 FRAME AND COVER SECTION.
4. EACH CLEANOUT ASSEMBLY SHALL CONSIST OF: ONE CLEANOUT ADAPTER, HUB x FEMALE, FIPT, PVC SI AND ONE CLEANOUT PLUG, MOPT WITH RAISED NUT, PVC SDR35.

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

COMMERCIAL SIDE SEWER CONNECTION WITH SAMPLING CONNECTION

DRAWN BY	CHECKED BY	APPROVED BY	REVISED BY	CITY STANDARD
BM ERWIN-SVOBODA	LINDA LIAN	COLLEEN HARRIS	LINDA LIAN	04.03.04
FILE NAME: P:\DWG\COMMON\STDS\CITY\2009\04_SS\04.03\04.03.04		DATE APPROVED: 3/30/2009	DATE REVISED: 04/21/11	SCALE: 1:4

City of Puyallup
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Fire | Traffic

APPROVED
BY _____
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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JUSTIN M. JONES STATE OF WASHINGTON 41829 REGISTERED PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
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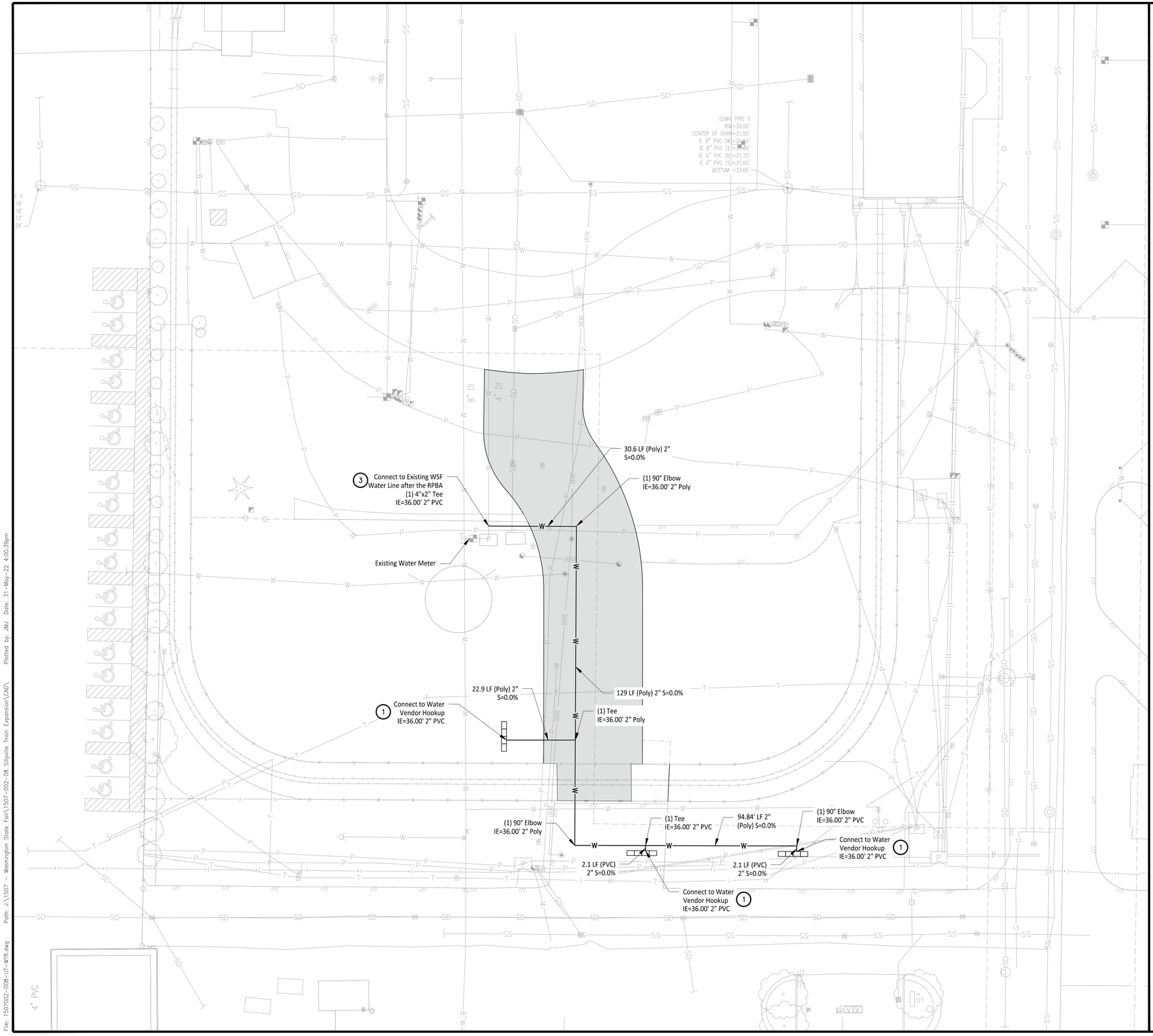
DRAWN BY: | DESIGN BY: JJ
PROJ.NO: 1507-002-08
DATE: July 08, 2022
SHEET NAME: Sanitary Sewer Details
DWG. C4-201
20 OF 23



CONSTRUCTION NOTES

1. Domestic Water Service and Sanitary Sewer Vendor Hook Ups to be Installed per Detail A on Sheet C5-201.
2. Use Vertical Bends as Necessary to Install Water Pipe, Allowing Clearances from City of Puyallup Standard Details 03.01.03-1 & 03.01.03-2.
3. Cut In to be Installed for Connection to Existing WSF Water Line after the RPBA per Detail B on Sheet C5-201.

GENERAL NOTES

1. Contractor to Pothole, Locate Horizontal and Vertical Utilities and Verify with Engineer prior to any Utility Work.

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY Lauren D Williamson
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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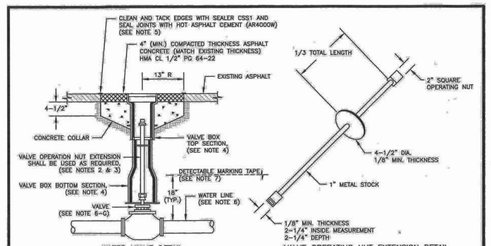
SHEET NAME
Water Plan

DWG.
C5-101
21 OF 23

File: 1507002-008-UT-WTR.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 4:00:39pm



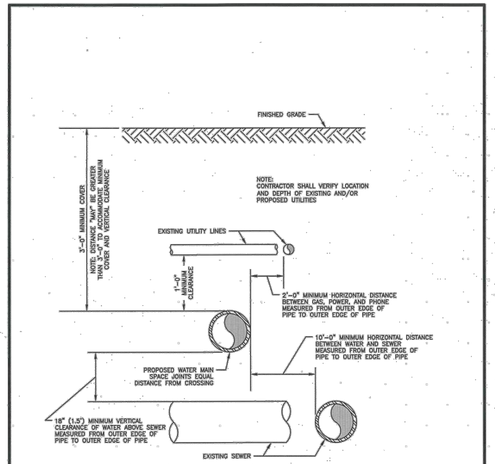
WATER VALVE DETAIL
NOT TO SCALE

VALVE OPERATING NUT EXTENSION DETAIL
NOT TO SCALE

NOTES:

1. WATER MAINS SHALL HAVE A MINIMUM COVER OF 36" FROM PAVED FINAL GRADE IN IMPROVED RIGHT-OF-WAY AND IMPROVED EASEMENTS, AND A MINIMUM OF 48" IN UNIMPROVED RIGHT-OF-WAY AND UNIMPROVED EASEMENTS.
2. VALVE OPERATING NUT EXTENSIONS ARE REQUIRED WHEN THE VALVE NUT IS MORE THAN FIVE (5) FEET BELOW FINISHED GRADE. EXTENSIONS ARE TO BE A MINIMUM OF TWO (2) FEET LONG, ONLY ONE EXTENSION TO BE USED PER VALVE. TOP OF EXTENSION SHALL BE 2 FEET 6 INCHES TO 3 FEET BELOW FINISHED GRADE.
3. ALL VALVE OPERATING NUT EXTENSIONS ARE TO BE MADE OF STEEL, SIZED AS NOTED, AND PAINTED WITH TWO COATS OF METAL PAINT.
4. VALVE BOXES SHALL BE TWO-PIECE, ADJUSTABLE, CAST IRON WITH EXTENSION PIECES (IF NECESSARY), AS MANUFACTURED BY THE VANRICH #940 SEATTLE OR APPROVED EQUAL. THE WORD "WATER" SHALL BE CAST IN RELIEF ON THE VALVE BOX COVER. VALVE BOX TOPS INSTALLED IN ARTERIAL ROADWAYS SHALL BE MANUFACTURED BY EAST JORDAN (EJ) IRONWORKS MODEL 8555 WITH LOCKING VALVE BOX COVER MODEL 6800 (PART# 08800023U) OR APPROVED EQUAL.
5. NEAT LINE CUTS SHALL BE SEALED WITH A HOT PAVING GRADE ASPHALT AND FACE OF CUT TACKED.
6. WATER MAINS SHALL BE CONSTRUCTED AND TESTED IN ACCORDANCE WITH DIVISION 7 OF THE WSDOT STANDARD SPECIFICATIONS SUPPLEMENTED WITH THE FOLLOWING:
   - A. DUCTILE IRON PIPE SHALL CONFORM TO AWWA C 151, THICKNESS CLASS 52, AND THE EXTERIOR SHALL BE COATED WITH COAL TAR VARNISH. PIPE AND FITTINGS SHALL BE MORTOR LINED AND SHALL CONFORM TO AWWA C 104. THE THICKNESS OF THE LINING SHALL BE NOT LESS THAN 1/16" THICK FOR 3" TO 12" PIPE, 3/32" THICK FOR 14" TO 24" PIPE, AND 1/8" THICK FOR 30" TO 54" PIPE. THE CEMENT LINING SHALL CONFORM TO THE REQUIREMENTS OF ASTM C 150.
   - B. JOINTS SHALL BE TYTON PUSH-ON JOINTS, OR APPROVED EQUAL, OR MECHANICAL JOINT TYPE PER AWWA C 111 EXCEPT WHERE FLANGED JOINTS ARE REQUIRED TO CONNECT TO VALVES OR OTHER EQUIPMENT.
   - C. BOLTS AND NUTS FOR BURIED FLANGES LOCATED OUTDOORS, ABOVE GROUND, OR IN OPEN VAULTS IN STRUCTURES SHALL BE TYPE 316 STAINLESS STEEL CONFORMING TO ASTM A 193, GRADE B8M FOR BOLTS, AND ASTM A 194, GRADE 8M FOR NUTS. BOLTS AND NUTS LARGER THAN ONE AND ONE-QUARTER (1-1/4) INCHES SHALL BE STEEL, ASTM A 307, GRADE B, WITH CADMIUM PLATING, ASTM A 165, TYPE NS.
   - D. BOLTS USED IN FLANGE INSTALLATION SETS SHALL CONFORM TO ASTM B 193, GRADE B7. NUTS SHALL COMPLY WITH ASTM A 194, GRADE 2H.
   - E. PROVIDE A WASHER FOR EACH NUT, WHERE NEEDED. WASHERS SHALL BE OF THE SAME MATERIAL AS THE NUTS.
   - F. ALL FITTINGS SHALL CONFORM TO THE REQUIREMENTS OF AWWA C 110 AND AWWA C 111.
   - G. RESILIENT SEATED WEDGE GATE VALVES SHALL BE USED FOR TEN (10) INCH MAINS AND SMALLER: BUTTERFLY VALVES SHALL BE USED FOR MAINS GREATER THAN TEN (10) INCHES:
     1) RESILIENT SEATED WEDGE GATE VALVE: GATE VALVES SHALL CONFORM TO THE LATEST AWWA SPECIFICATIONS FOR COLD WATER, DOUBLE-DISK GATE VALVES, 200 PSI WORKING PRESSURE. THEY SHALL BE NON-RISING STEM, WITH TWO (2) INCH SQUARE NUT, COUNTER-CLOCKWISE OPENING, MECHANICAL JOINT AND / OR FLANGED ENDS (8" VALVES ON FIRE HYDRANT LINES WHICH SHALL BE MECHANICAL JOINTS BY FLANGED). VALVE STEMS SHALL BE PROVIDED WITH O-RING SEALS AND SHALL BE AS MANUFACTURED BY THE MUELLER COMPANY OR APPROVED EQUAL.
     2) BUTTERFLY VALVES: BUTTERFLY VALVES CONFORMING WITH AWWA C 504, CLASS 150 AND SHALL HAVE STANDARD AWWA TWO (2) INCH SQUARE NUT.
7. DETECTABLE MARKING TAPE SHALL BE INSTALLED 18" ABOVE PIPE, BE BLUE IN COLOR, AND READ "CAUTION WATER LINE BELOW" MEETING WSDOT SPEC. 9-15.18.

CITY OF PUYALLUP, OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION | **WATER VALVES AND MAINS** | (NOT TO SCALE) | CITY STANDARD 03.01.01



SEE CITY STANDARD 03.01.03-2 FOR ADDITIONAL NOTES FOR THIS DETAIL

CITY OF PUYALLUP, OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION | **WATER MAIN CROSSING OTHER UTILITIES** | (NOT TO SCALE) | CITY STANDARD 03.01.03-1

NOTES FOR WATER MAIN CROSSING OTHER UTILITIES
CITY STANDARD 03.01.03-1

WHEN LOCAL CONDITIONS PREVENT THE SEPARATIONS DESCRIBED ON CITY STANDARD 03.01.03-1, A SEWER MAY BE LAID CLOSER THAN 10-FEET HORIZONTALLY OR 18-INCHES VERTICALLY TO A WATER LINE, PROVIDED THE GUIDELINES BELOW ARE FOLLOWED:

UNUSUAL CONDITIONS (PARALLEL SYSTEMS)

1. SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
2. WHEN 18-INCHES VERTICAL SEPARATION CANNOT BE OBTAINED, THE SEWER SHALL BE CONSTRUCTED OF MATERIALS AND JOINTS THAT ARE EQUIVALENT TO WATER MAIN STANDARDS OF CONSTRUCTION AND SHALL BE PRESSURE TESTED TO ENSURE WATER TIGHTNESS PRIOR TO BACKFILLING.
3. THE WATER LINE SHALL BE PLACED ON A BENCH OF UNDISTURBED EARTH WITH THE BOTTOM OF THE WATER PIPE AT LEAST 18-INCHES ABOVE THE CROWN OF THE SEWER, AND SHALL HAVE AT LEAST 5-FEET OF HORIZONTAL SEPARATION AT ALL TIMES. THE CITY RESERVES THE RIGHT TO REQUIRE SUPPLEMENTAL MITIGATION EFFORTS, SUCH AS IMPERMEABLE BARRIERS OR OTHER MEANS, FOR ADDITIONAL PROTECTION.
4. THE SEWER SHALL NOT BE INSTALLED IN THE SAME DITCH AS A POTABLE WATER LINE WITHOUT PRIOR WRITTEN APPROVAL BY THE CITY OF PUYALLUP.

UNUSUAL CONDITIONS (PERPENDICULAR SYSTEMS)

CONDITION A – GRAVITY SEWERS PASSING UNDER WATER LINES (ALL OF THE FOLLOWING APPLY)

1. ONE FULL SEGMENT (NOT LESS THAN 18-FEET LONG) OF DUCTILE IRON CLASS 52 WATER PIPE, AND THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER SHALL BE USED WITH THE PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
2. STANDARD GRAVITY-SEWER MATERIAL ENCASED IN CONCRETE OR IN A ONE-QUARTER-INCH THICK CONTINUOUS STEEL, DUCTILE IRON, OR PRESSURE RATED PVC PIPE WITH A DIMENSION RATIO (THE RATIO OF THE OUTSIDE DIAMETER TO THE PIPE WALL THICKNESS) OF 18 OR LESS, WITH ALL VOIDS PRESSURE-GROUTED WITH SAND-CEMENT GROUT OR BENTONITE.

   EXAMPLE OF DIMENSION RATIO (DR): OUTSIDE PIPE DIAMETER DIVIDED BY THE WALL THICKNESS OR OD/T.
   FOR 8-INCH SCH. 80 PVC PIPE (T=0.5 INCHES), THE DR IS 8.625/0.5=17.25

CONDITION B – GRAVITY SEWER PASSING OVER WATER LINES

WATER LINES SHALL BE PROTECTED BY PROVIDING:

1. A VERTICAL SEPARATION OF AT LEAST 18-INCHES BETWEEN THE INVERT OF THE SEWER AND THE CROWN OF THE WATER LINE.
2. ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF THE WATER LINE.
3. THE SEWER PIPE SHALL BE THE LONGEST STANDARD SEWER PIPE LENGTH AVAILABLE FROM THE MANUFACTURER WITH THE WATER AND SEWER PIPES CENTERED TO MAXIMIZE JOINT SEPARATION.
4. THE SEWER LINE CASING EQUIVALENT TO THAT SPECIFIED IN A(2) ABOVE.

CITY OF PUYALLUP, OFFICE of THE CITY ENGINEER | APPROVED FOR PUBLICATION | **WATER MAIN CROSSING OTHER UTILITIES (NOTES)** | (NOT TO SCALE) | CITY STANDARD 03.01.03-2

City of Puyallup
Development & Permitting Services
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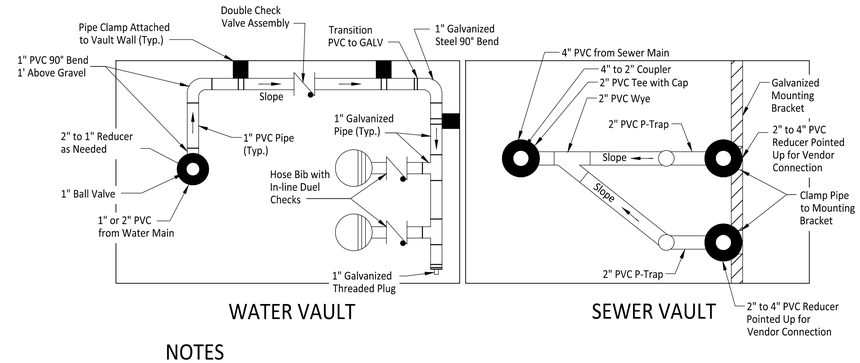
Fire	Traffic

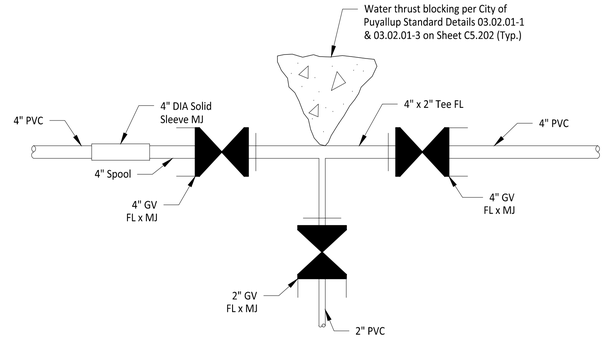


WATER VAULT SEWER VAULT

NOTES

1. Hose bibs and sewer connections to be no more than 6" below vault lid.
2. Water vault lid to have two inch hole above each hose bib.
3. Sewer vault lid to have to have four-inch hole directly above 2" to 4" PVC reducer.
4. Vault to be Type 3 24" by 36" with one 12" riser and two diamond plate double hinged H20 rated lids.
5. Bottom of vault to be backfilled with pea gravel.
6. All pipe clamps to be stainless steel.

WATER & SEWER VENDOR CONNECTION DETAIL A — 1" = 1' — C5-201



CUT-IN TO EXISTING MAIN DETAIL B — 1" = 1' — C5-201

APPROVED
BY Lance D. Williamson
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING
DATE 7/19/2022

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07-08-22

REV	DATE	DESCRIPTION
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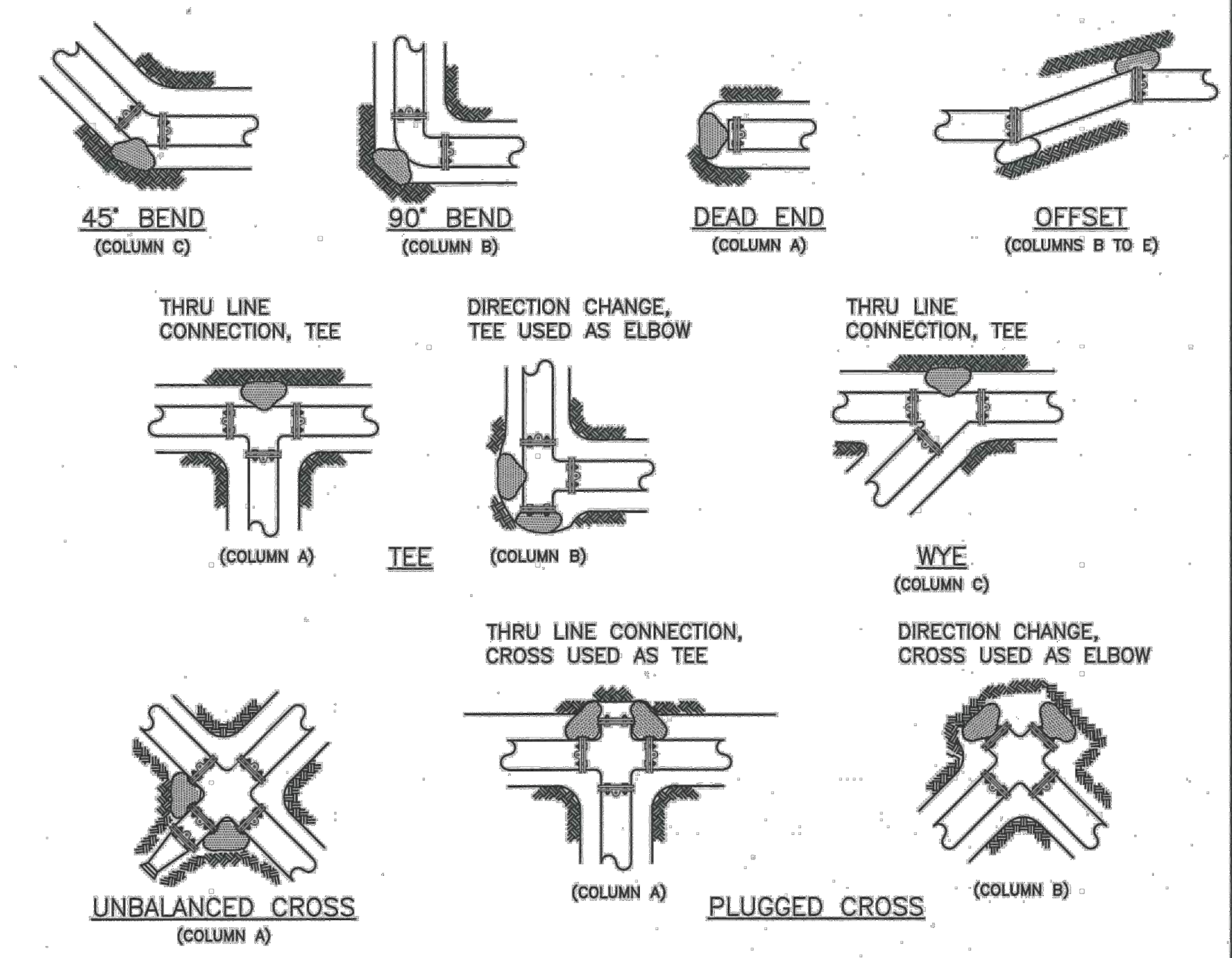
DRAWN BY: | DESIGN BY: JJ
PROJ.NO: 1507-002-08
DATE: July 08, 2022
SHEET NAME: Water Details
DWG. C5-201
22 OF 23

File: 1507002-008-UT-WTR-D1.dwg Path: J:\1507 - Washington State Fair\1507-002-08 Sillyville Train Expansion\CAD\ Plotted by: JMJ Date: 31-May-22 4:02:57pm

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:
   - A. BLOCKS MUST BE POURED OR PLACED AGAINST UNDISTURBED SOIL.
   - B. THE PIPE FITTING(S) AND BOLTS MUST BE ACCESSIBLE. WRAP IN PLASTIC BEFORE POURING CONCRETE BLOCKING.
   - C. CONCRETE SHOULD BE CURED FOR AT LEAST 5 DAYS AND SHOULD HAVE A MINIMUM COMPRESSION STRENGTH OF 3,000 PSI AT 28 DAYS.
   - D. RESTRAINED JOINTS SHALL BE INSTALLED, IN ADDITION TO CONCRETE THRUST BLOCKING.
   - E. BLOCKS MUST BE POSITIONED TO COUNTERACT THE DIRECTION OF THE RESULTANT THRUST FORCE.
2. ALL PIPE SHALL BE PROPERLY BEDDED, SEE CITY OF PUYALLUP STANDARD BEDDING DETAIL NO. 06.01.01.
3. CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE.
4. DIVIDE THRUST BY SAFE BEARING LOAD TO DETERMINE REQUIRED AREA (IN SQUARE FEET) OF CONCRETE TO DISTRIBUTE LOAD.
5. BEARING SURFACE AREAS TO BE ADJUSTED BY THE ENGINEER FOR OTHER PRESSURE AND/OR SOIL CONDITIONS.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE SEALED: 2/5/2018

HORIZONTAL THRUST BLOCKING

(NOT TO SCALE)

CITY STANDARD 03.02.01-1

TABLE 2: THRUST AT FITTINGS AT 200 PSI

SIZE	TEST PRESSURE (PSI)	THRUST FITTINGS AT 200 PSI				
		A	B	C	D	E
		TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25° BEND
4"	200	3,140	4,440	2,405	1,225	615
6"	200	7,070	9,995	5,410	2,760	1,385
8"	200	12,565	17,770	9,620	4,905	2,465
10"	200	19,635	27,770	15,030	7,660	3,850
12"	200	28,275	39,985	21,640	11,030	5,545
14"	200	38,485	54,425	29,455	15,015	7,545
16"	200	50,265	71,085	38,470	19,615	9,855

TABLE 3: BEARING VALUE OF SOIL

SOIL TYPE	SAFE BEARING LOAD LBS/SF
MUCK, PEAT, ETC.	0
SOFT CLAY/ALLUVIAL SOIL	1,000
SAND	2,000
SAND AND GRAVEL	3,000
SAND AND GRAVEL CEMENTED WITH CLAY	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 PSI SHOWN, MULTIPLY THE THRUST OBTAINED IN TABLE 2 BY THE RATIO OF THE PRESSURE TO 200 PSI.

EXAMPLE:
THE THRUST ON A 12 INCH, 90' BEND AT 300 PSI.

$39,985 \times \frac{300\ PSI}{200\ PSI} = 59,978$ LBS

② TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF):

SEE TABLE 3, BEARING VALUE OF SOIL

EXAMPLE:
FOR SAND AND GRAVEL BEARING VALUE FROM TABLE 3 IS 3,000 LBS/SF

59,978 LBS ÷ 3000 LB/SF = 20 SF OF AREA

③ CONTRACTOR TO PROVIDE BLOCKING ADEQUATE TO WITHSTAND FULL TEST PRESSURE

④ AREAS SHALL BE ADJUSTED FOR OTHER PRESSURE CONDITIONS.

⑤ NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP.

CITY OF PUYALLUP
OFFICE of THE CITY ENGINEER

APPROVED FOR PUBLICATION
DATE SEALED: 2/5/2018

THRUST BLOCKING TABLE

(NOT TO SCALE)

CITY STANDARD 03.02.01-3

City of Puyallup
Development & Permitting Services
ISSUED PERMIT

Building	Planning
Engineering	Public Works
Fire	Traffic

APPROVED

BY [signature]
CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE 7/19/2022

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

CALL TWO BUSINESS DAYS BEFORE YOU DIG
1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

Owner/Developer:
Washington STATE FAIR PUYALLUP
Washington State Fair
110 9th Ave SW
Puyallup, WA 98371
(253) 841-5356

Architect:

Engineer:
JMJTEAM
Justin Jones, PE
905 Main St. Suite 200
Sumner, WA 98390
(206) 596-2020

Project:
SillyVille Train Expansion

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

JUSTIN M. JONES
STATE OF WASHINGTON
41829
REGISTERED PROFESSIONAL ENGINEER
07-08-22

REV	DATE	DESCRIPTION
1	05/31/22	City Comment Revision #1
2	06/30/22	City Comment Revision #2
3	07/08/22	City Comment Revision #3

DRAWN BY: DESIGN BY: JJ

PROJ NO: 1507-002-08

DATE: July 08, 2022

SHEET NAME
Water Details

DWG.
C5-202