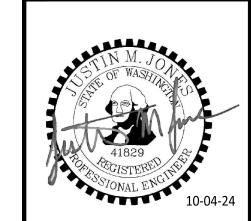
Contact: Jeff Brown

Sumner, WA 98390 (206) 596-2020

Civil Construction Permit



REV DATE DESCRIPTION

DRAWN BY: DESIGN BY: MO

October 4, 2024

CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

JALL TWO BUSINESS DAYS BEFORE YOU DIG UTILITIES UNDERGROUND LOCATION CENTER

Washington State Fair

International Village & Redevelopment

Civil Construction Permit

VICINITY MAP



110 9th Ave SW, Puyallup, WA 98371





Project Site Scale: 1" = 400'



City of Puyallup Development & Permitting Service ISSUED PERMIT			
Building	Planning		
Engineering	Public Works		
Fire OF W	Traffic		

Vicinity Map Scale: 1" = 1/4 Mile

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rmitting Services	3
PERMIT	
Planning	
Public Works	
-G/	
Traffic	

SHEET INDEX

Drawing #	Sheet #	Sheet Name
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3	C1-003	General Notes
4	C1-004	General Notes
5	C1-101	Washington State Fair Map
6	C1-102	Composite Site Plan
7	C1-201	Boundary & Topographic Survey
8	C1-202	Existing Site Plan
9	C1-301	Building Control Plan
10	C2-101	Temporary Erosion & Sediment Control Plan
11	C2-201	Temporary Erosion & Sediment Control Details
12	C2-301	Hardscape Demolition Plan
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16	C3-101	Proposed Site Plan
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19	C4-101	Composite Stormwater Plan
20	C4-102	Stormwater Plan & Profile
21	C4-103	Stormwater Plan & Profile
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23	C4-202	Stormwater Details
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31	C6-102	Water Plan & Profile
32	C6-103	Water Plan & Profile
33	C6-104	Water Plan & Profile
34	C6-105	Water Plan & Profile
35	C6-106	Water Plan & Profile
36	C6-201	Water Details
37	C6-202	Water Details
38	C6-203	Water Details
39	C7-101	Joint Utility Trench Plan

PROJECT DISTURBED AREA

Description ^a	Onsite	Offsite	Total
Existing Con	ditions		
Total Project Area ^b (ft²)	64,405-1.479 ac	0-0 ac	64,405-1.479
Existing hard surface (ft²)	54,620-1.254 ac	0-0 ac	54,620-1.254
Existing vegetation area (ft²)	9,785-0.225 ac	0-0 ac	9,785-0.225
Proposed Co	nditions		
Total Project Area ^b (ft²)	64,405-1.479 ac	0-0 ac	64,405-1.479
Amount of new hard surface (ft²)	0-0 ac	0-0 ac	0-0ac
Amount of new pollution generating hard surface (PGHS) ^c (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of replaced hard surface (ft²)	54,620-1.254 ac	0-0 ac	54,620-1.25
Amount of replaced PGHS ^d (ft²)	18,420-0.423 ac	0-0 ac	18,420-0.42
Amount of new plus replaced hard surface (ft²)	54,620-1.254 ac	0-0 ac	54,620-1.25
Amount of new + replaced PGHS (ft²)	18,420-0.423 ac	0-0 ac	18,420-0.42
Amount of existing hard surfaces converted to vegetation (ft²)	0-0 ac	0-0 ac	0-0 ac
Amount of Land Disturbed (ft²)	64,405-1.479 ac	0-0 ac	64,405-1.47
Vegetation to Lawn/Landscaped (acres)	9,785-0.225 ac	0-0 sf	9,785-0.225
Native Vegetation to Pasture (acres)	0-0 sf	0-0 sf	0-0 sf
Existing hard surface to remain unaltered (ft²)	0-0 ac	0-0 ac	0-0 ac
Existing vegetation area to remain unaltered (ft²)	0-0 ac	0-0 ac	0-0 ac

a.All terms are defined in the 2019 Ecology Manual glossary. b. The total project area in the existing condition should typically match the total project area in

the proposed condition. c. The "amount of new PGHS" should be part of or all of "amount of new hard surfaces"

d. The "amount of replaced PGHS" should be part of or all of the "amount of replaced hard

DATE _ 10/11/2024 **NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE

APPROVED

DEVELOPMENT ENGINEERING

CITY OF PUYALLUP

C1-001

Cover Sheet

APPLICANT

110 9TH AVE SW

ARCHITECT

TACOMA, WA 98444

(253)-606-8324

905 MAIN STREET

(206) 596-2020

SUMNER, WA 98390

SURVEYOR

PUYALLUP, WA 98374 (253) 604-6600

JMJ TEAM

SUITE 200

PARAMETRIX

SITE ADDRESS:

ZONING:

WASHINGTON STATE FAIR

JEFF BROWN ARCHITECTURE

12181 C STREET SOUTH

CONTACT: JEFF BROWN

CIVIL ENGINEER

CONTACT: JUSTIN JONES, PE

1019 39TH AVENUE SE, SUITE 100

CONTACT: JUSTIN EMERY, PLS

SITE INFORMATION:

CONTROL INFORMATION:

TAX PARCEL NUMBER(S):

TOTAL PROJECT AREA:

HORIZONTAL DATUM

VERTICAL DATUM:

SURVEY DATE:

WATER:

SEWER:

POWER:

GAS:

STATISTICS:

METHODOLOGY: FIELD TRAVERSE AND GPS.

WAC 332-130-100

SERVICE PROVIDERS:

MEETS OR EXCEEDS SURVEY STANDARD AS PER:
WAC 332-130-050
WAC 332-130-090

ALL SURVEY WORK OCCURRED IN MAY OF 2023.

& BASIS OF BEARING:

110 9TH AVE SW PUYALLUP, WA 98371

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

VERTICAL DATUM IS NGVD29 BASED ON PUBLISHED INFORMATION

CONVERSION FROM NGVD29 TO NAVD88: NAVD88≈NGVD29+3.48

FROM WSDOT, POINT DESIGNATION GP-27512-18AZ.

0420331121

1.479 ACRES

GP27512-18AZ

NORTHING: 678467.150 EASTING: 1194300.738

ELEVATION: 77.073

CITY OF PUYALLUP

CITY OF PUYALLUP

PUGET SOUND ENERGY

PUGET SOUND ENERGY

MAY 2023

EQUIPMENT: TOPCON HIPER V GPS AND LEICA TS16 ROBOTIC TOTAL STATION

POINT DESIGNATION GP27512-18AZ

POINT DESIGNATION GP-27512-18AZ

PUYALLUP, WA 98371

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)
- 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
- 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
- 16. Storm pipe shall be a minimum of 10 feet away from building foundations and/or roof lines.
- 17. All storm pipe shall be tested and inspected for acceptance as outlined in Section 209 of the City of Puyallup Stormwater Management 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.
- 19. Registration is required for all Class V UIC wells within public drainage tracts or public rightof—way and must be submitted sixty (60) days prior to well construction. A copy of the online registration shall be submitted to the City prior to construction.

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

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

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.

APPROVED

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:
Jeff Brown Architecture
12181 C Street South

(253) 606-8324

Tacoma, WA 98444

Contact: Jeff Brown

Engineer:

Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390

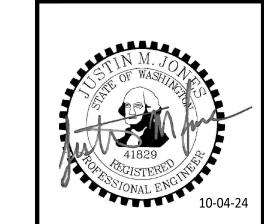
oject:

(206) 596-2020

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE
IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

REV DATE DESCRIPTION

WN BY:	МО	DESIGN BY:	JJ
NO.		15	07-014

October 4, 2024

General Notes

SHEET NAME

C1-002

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.
- 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 unpayed 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
- 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.

with PVC pipe a minimum of 10 feet beyond each side of the gas line easement.

- 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
- 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

- 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
- 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 Volume	5-gram	Hypochlorite Granules		Maximum
Pipe Diameter	per 18 feet	tablets per	Ounces per	Teaspoons	Fill Rate
(Inches)	(gal)	pipe section	500 feet	per 18 feet	(gpm)_
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
- 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.

SANITARY SEWER TESTING REQUIREMENTS

in WSDOT Section 7-17.3(2). Sanitary sewer cleaning and testing shall be completed to the satisfaction of the Office of the City Engineer and/or Public Works Department prior to final acceptance. After completion of all backfill and compaction, sewer lines shall be cleaned and tested by the Contractor prior to final project acceptance, as outlined in Section 406.1 will perform a final CCTV inspection per 406.4 to verify that the work performed conforms to City Standards prior to bond release.

Physical connection to the existing City sewer system shall not be allowed until all pipes have been thoroughly cleaned by jetting and/or pigging to remove any solids or construction debris that may have

The Contractor shall arrange to have the water accumulated during construction and sanitary system cleaning operations removed from the sewer system by a Vactor truck. Water from the new sewer extension shall not be permitted to enter the existing City system until final project approval. Sediment or debris introduced to existing City sewers as a result of any construction activity shall be removed immediately by

Gravity sanitary sewers shall be tested for deflection prior to visual 30 days after the trench backfill and compaction has been completed. Deflection testing shall be conducted by pulling a mandrel (rigid or adjustable) with a diameter not less than 95 percent of the normal conformance with WSDOT Section 7-17.3(2)G.

1.3. <u>Leakage Testing</u>

All new gravity sanitary sewer mains and the right-of-way laterals shall be subject to a low-pressure air test per WSDOT Section 7-17.3(2)F. Low pressure air testing shall be conducted after backfilling is with the approved plans. Conforming compaction shall be verified by nuclear gauge testing and/or proof rolling at the discretion of to verify satisfactory completion. The City Engineer or designee may require that air test pressure be maintained at 4.0 psig with no drop for 15 minutes for a passing leakage test where groundwater pressure is deemed negligible, or at the City Engineer's or designee's discretion.

The Contractor shall furnish all necessary equipment and personnel for conducting the pressure test. The Contractor shall provide certification from a certified/accredited laboratory that testing equipment is accurate. All equipment and personnel shall be subject to approval by

If any portion of the sanitary system fails to meet the testing requirements, the Contractor shall determine, at their own expense, the source of leakage and shall repair or replace all defective materials or workmanship. The completed pipe installation shall meet the minimum testing requirements before being considered acceptable.

1.4. <u>Television Inspection</u>

All new gravity sanitary sewer extensions shall be visually inspected in conformance with WSDOT Section 7-17.3(2)H, following satisfactory trench compaction testing, flushing, low pressure air testing, and deflection testing. All manholes shall be channeled and grade rings set in place prior to sewer video inspection.

The remote camera used in sewer visual inspection shall be one specifically designed for such an application, with the ability to rotate the camera 180 degrees and lighting suitable to allow a clear picture of the entire periphery of the pipe. The camera shall proceed through the pipe at a sufficiently slow velocity to allow adequate inspection of all pipe All sewer lateral fittings and joints and suspect pipe joints shall be closely inspected by rotating the camera as needed to provide a clear

The Contractor shall introduce water to the new sewer system immediately prior to the visual inspection by adding water to the upstream manhole until water is seen flowing in the lowest manhole. Video inspection of the line shall begin when flow in the lowest manhole has stopped. A 1—Inch sewer ball shall be attached to the front of the camera to provide a basis for estimating the depth of the ponding within the sewer pipe.

- 1.4.2. The total accumulated ponding length, regardless of depth, from manhole to manhole shall be less than ten (10) percent of the total length from manhole to manhole.

be rejected and require repair and/or replacement by the Contractor.

The Contractor shall bear all costs for the correction of any deficiencies found during TV inspection, including the costs for additional TV inspection and leakage testing needed to verify the deficiencies were corrected. All components of the video and recording equipment shall be sufficient to provide picture quality to the satisfaction of the City Engineer or designee.

Upon completion of the video inspection, the digital video, of common format, and written inspection report shall be submitted to the City for review. At a minimum, the inspection report shall contain the following

- -Size, length, and material type of the sewer main.
- -Estimated depth and location of all ponding over 1/4 inch in depth

-Street name and/or location of sewer main

1. Gravity sanitary sewer cleaning and testing requirements shall be as outlined project utility work (sewer, water, storm, etc.) and associated utility trench

entered the pipe.

the Contractor in conformance with WSDOT Section 7-17.

1.2. <u>Deflection Testing</u>

inspection. Thermoplastic pipe shall be tested for deflection not less than diameter of the pipe being tested. Mandrel testing shall be conducted in

completed and the backfill material has been compacted in conformance Engineering staff. The City Engineer or designee shall observe all testing

the City Engineer or designee.

<u>Television Inspection Acceptance Criteria:</u>

1.4.1. Any ponding within a pipe shall be less than one—half inch (1/2") in

Any sewer pipe that exceeds either of the above acceptance criteria will

- -Location of all lateral connections.

-Manhole numbers that correspond to the approved plans

through 406.4. At the end of the Maintenance and Warranty Period, the City

Contact: Jeff Brown

wner/Developer

Washington STATE FAIR

PUYALLUP

Washington State Fair

Jeff Brown Architecture

12181 C Street South

Tacoma, WA 98444

(253) 606-8324

Puyallup, WA 98371

110 9th Ave SW

(253) 841-5356

Architect:

Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390

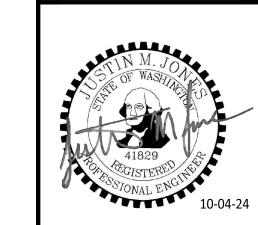
(206) 596-2020

JTEAM

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



REV DATE DESCRIPTION 09-20-24 City Comment Cycle #1 2 10-04-24 City Comment Cycle #2

> DRAWN BY: DESIGN BY: MO 1507-014 October 4, 2024

General Notes

SHEET NAME

BEFORE YOU DIG C1-003 UTILITIES UNDERGROUND LOCATION CENTER

City of Puyallup

Development & Permitting Services

Building

Engineering

Fire

ISSUED PERMIT

Planning

Public Works

Traffic

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

DATE 10/11/2024

THE CITY WILL NOT BE

DETERMINED BY THE

MANAGER.

RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

FIELD CONDITIONS MAY DICTATE

CALL TWO BUSINESS DAYS

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL

___3__ 0F <u>___39</u>

TESTING AND INSPECTION

Stormwater system cleaning and testing requirements shall be as outlined in WSDOT Section 7-17.3(2) and the standards herein. Stormwater system cleaning and testing shall be completed to the satisfaction of the City Engineer, or designee, prior to final acceptance. After completion of all project utility work (sewer, water, storm, etc.) and associated utility trench backfill and compaction, stormwater lines shall be cleaned and tested by the Contractor prior to final project acceptance, as outlined in Section 209.1 through 209.4. At the end of the maintenance and warranty period, the developer/contractor is required to clean and flush the lines as outlined in the standards herein. Other testing may be required at the end of the maintenance and warranty period, as determined by the City Engineer.

209.1 Cleaning/Flushing

The Contractor shall arrange to have all water and debris accumulated during construction removed from the system. Stormwater cleaning operations shall consist of jetting all stormwater lines, both main lines and laterals. Jetting lines shall never result in pushing sediment or debris downstream and all sediment, debris and water shall be removed from the stormwater system by a vactor truck. Sediment or debris introduced to the City's stormwater system because of construction activity shall be removed immediately by the Contractor in conformance with WSDOT Section 7-04.

209.2 Deflection Testing

Stormwater pipes shall be tested for deflection prior to visual inspection. Thermoplastic pipe shall be tested for deflection not less than 30 days after the trench backfill and compaction has been completed. Deflection testing shall be conducted by pulling a mandrel (rigid or adjustable) with a diameter not less than 95 percent of the normal diameter of the pipe being tested. Mandrel testing shall be conducted in conformance with WSDOT Section 7—17.3(2)G.

209.3 Pressure Testing

- All new stormwater pipes shall be subject to a low-pressure air test per WSDOT Section 7-17.3(2)F. Pressure testing shall be in accordance with the following, unless otherwise determined by the City Engineer, or designee.
- 1. Low pressure air testing shall be conducted after backfilling is completed. Backfill material shall be compacted in accordance with the approved plans.
- 2. Conforming compaction shall be verified by nuclear gauge testing and/or proof rolling. The City Engineer, or designee, shall observe all testing to verify satisfactory completion.
- 3. The Contractor shall furnish all necessary equipment and personnel for conducting the pressure test. The Contractor shall provide certification from certified/accredited laboratory that testing equipment is accurate. All equipment and personnel shall be subject to approval.
- 4. The Contractor shall conduct a preliminary pressure test prior to City observation, any portions of the system that fail the preliminary test should be remedied prior to City observation.
- 5. If any portion of the stormwater system fails to meet the testing requirements, the Contractor shall determine, at their own expense, the source of leakage and shall repair or replace all defective materials or workmanship. The completed pipe installation shall meet the minimum testing requirements before being considered acceptable.

209.4 Television Inspection

- All new stormwater pipes shall be visually inspected in conformance with WSDOT Section 7-17.3(2)H, following satisfactory trench compaction testing, flushing, low pressure air testing, and deflection testing. All manholes and catch basins shall be watertight with grade rings set in place prior to stormwater video inspection. The remote camera used in stormwater visual inspection shall be one specifically designed for such an application, with the ability to rotate the camera 180 degrees and lighting suitable to allow a clear high-quality picture of the entire periphery of the pipe. The camera shall proceed through the pipe at an appropriate velocity to allow adequate inspection of all pipe joints. All pipe joints shall be closely inspected by rotating the camera as needed to provide a clear view. The Contractor shall introduce water, with dye, to the stormwater system immediately prior to the visual inspection. The water shall be added to the upstream manhole until water is seen flowing in the downstream manhole. An incremented 1-inch sewer ball shall be attached to the front of the camera to provide a basis for estimating the depth of the ponding within the stormwater pipe.
- All new stormwater pipes shall be inspected by television camera with the City Engineer, or designee, present. Video and inspection reports shall be submitted to the City and include the following:
- 1. An electronic report of the inspection and copy of the inspection video in electronic form on a flash drive.
- 2. Video shall be labeled with the date and time, street name or location, upstream/ downstream structure, pipe size, pipe length and pipe material type.
- 3. Location and depths of all ponding $\frac{1}{4}$ or greater.
- 4. Location of deflections, deformation, or structural defects.
- 5. One file should be submitted with all stormwater pipe runs for the project. One—by—one submittals will not be accepted.
- 6. Video or inspection reports failing to meet criteria 1—5 above will not be reviewed and will be returned to the contractor/developer.

209.5 Acceptance Criteria

All new storm pipe installed (public and private) shall be tested, in accordance with Section 209, and video shall be reviewed and approved by the City Engineer, or designee, prior to the placement of curb and gutter or pavement. Unless determined otherwise by the City Engineer, or designee, all repairs identified shall be completed as follows:

- 1. Any ponding within a pipe shall be less than one—half inch (1/2) in depth.
- 2. The total accumulated ponding length, regardless of depth, from manhole to manhole shall be less than ten (10) percent of the total length from manhole to
- 3. The use of couplers is prohibited.
- 4. If a pipe needs to be cut into for the repair, the storm pipe run shall be removed and reinstalled from the nearest bell to the nearest catch basin.
- 5. If removal and replacement of any section of storm pipe is required to make a repair, the entire length of mainline shall be required to be retested after repairs are made.
- 6. A new video shall be required after the required repairs have been completed, in accordance with Section 209.4.
- Any stormwater pipe that exceeds any of the above acceptance criteria will be rejected and require repair and/or replacement by the Contractor.
- The Contractor shall bear all costs for the correction of any deficiencies found during TV inspection, including the costs for additional TV inspection and pressure testing needed to verify that the deficiencies were corrected. All components of the video and recording equipment shall be sufficient to provide picture quality to the satisfaction of the City Engineer, or designee.

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

Owner/Developer:

Washington
STATE FAIR
PUYALLUP

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

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444
(253) 606-8324
Contact: Jeff Brown



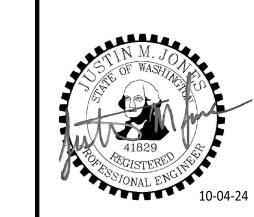
Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

oject:

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction
Permit



09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

REV DATE DESCRIPTION

VN BY:	МО	DESIGN BY:	JJ
NO:		150	07-014
		October 4,	2024

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

APPROVED

CITY OF PUYALLUP

DEVELOPMENT ENGINEERING

DATE 10/11/2024

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

DETERMINED BY THE DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

AND/OR OMISSIONS ON THESE

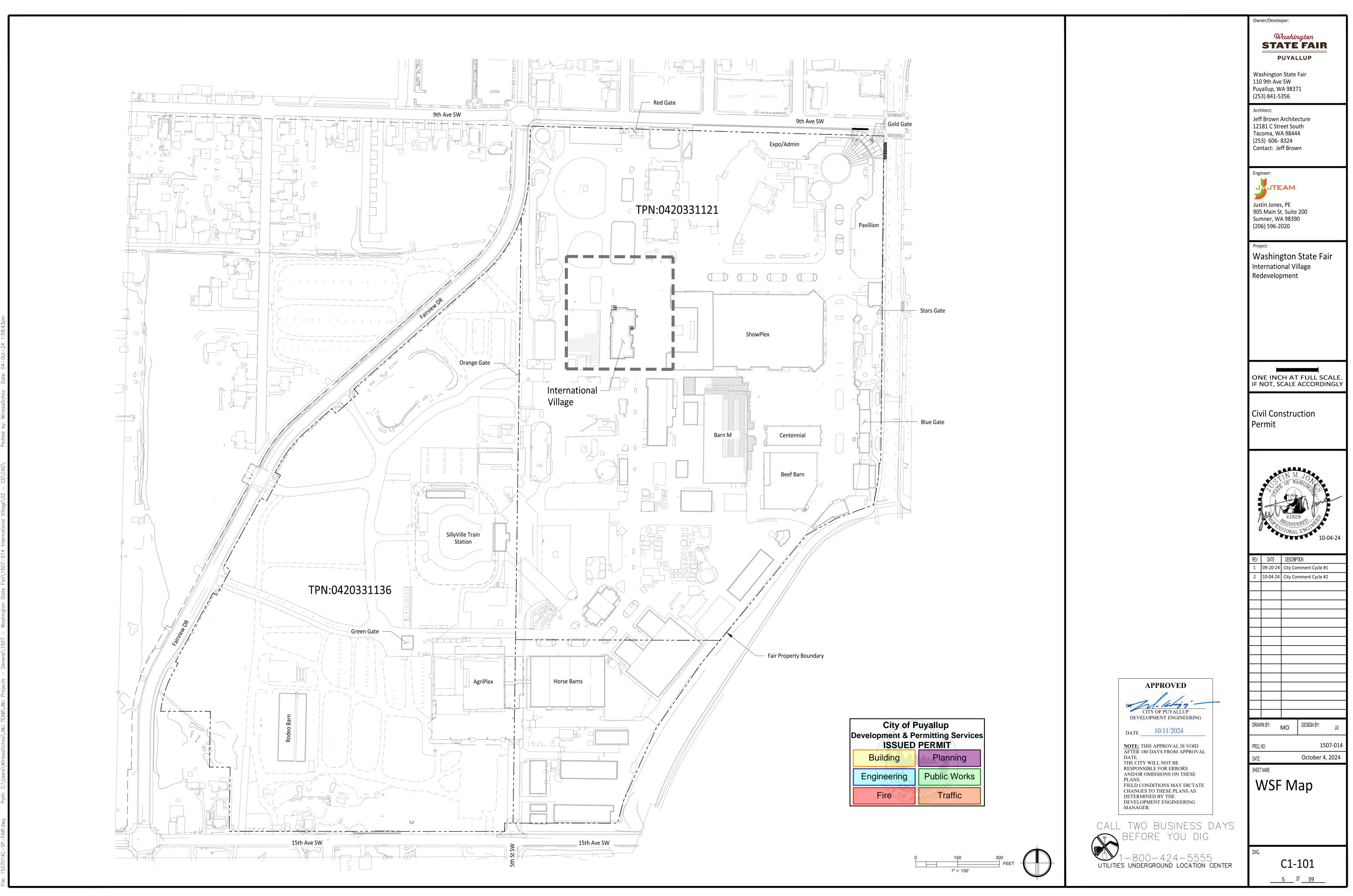
FIELD CONDITIONS MAY DICTATE

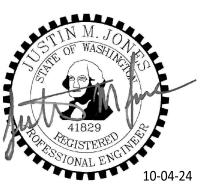
CHANGES TO THESE PLANS AS

C1-004

General Notes

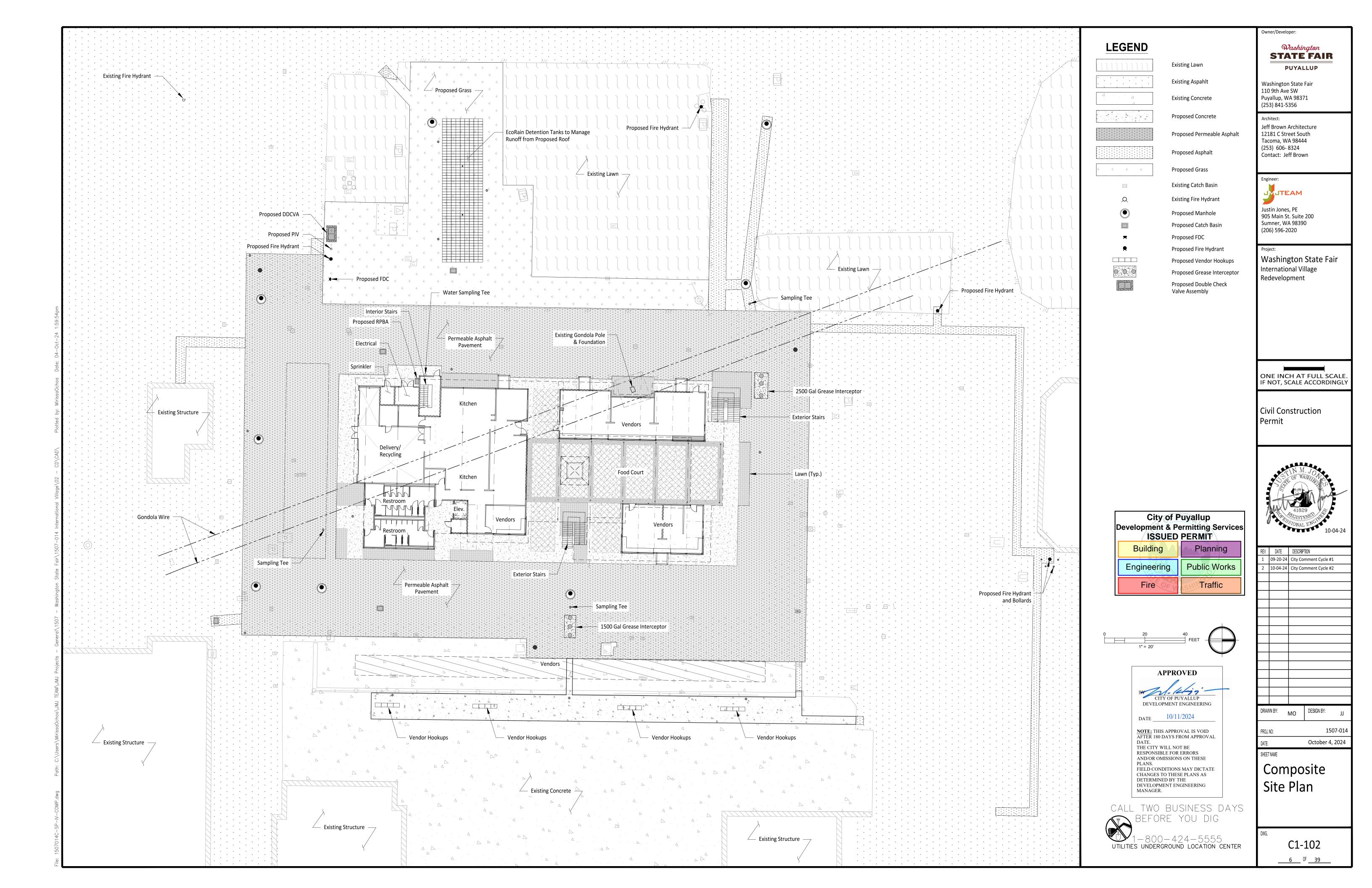
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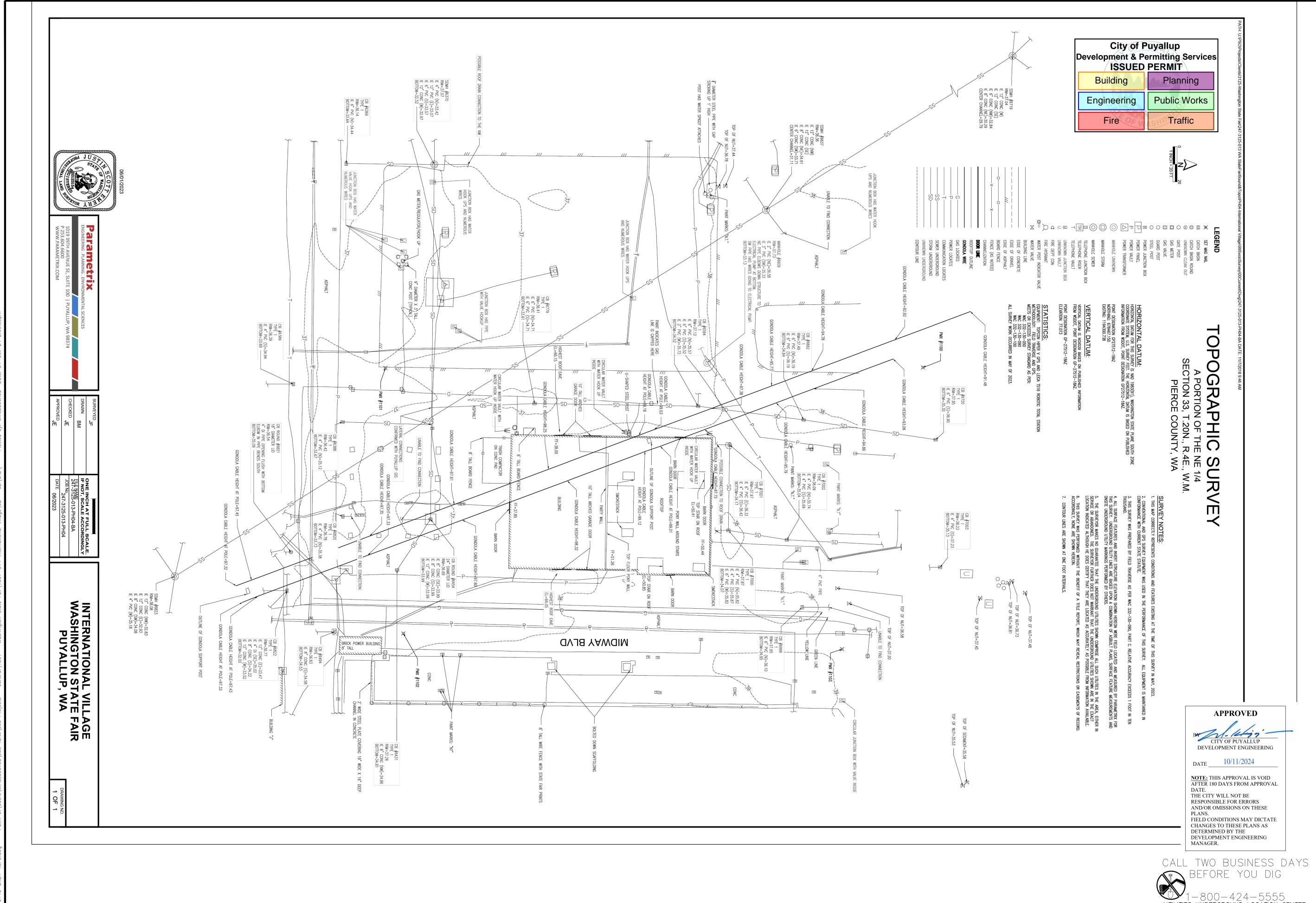




/N BY:	МО	DESIGN BY:	JJ
VO:		150	07-01

October 4, 2024





Owner/Developer: Washington STATE FAIR

PUYALLUP

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

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown



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Washington State Fair International Village Redevelopment

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Civil Construction Permit



REV DATE DESCRIPTION

1	09-20-24	City Co	mment Cycl	e #1
2	10-04-24	City Co	mment Cycl	e #2
RAWN BY:		МО	DESIGN BY:	IJ
ROJ.	NO:			1507-014

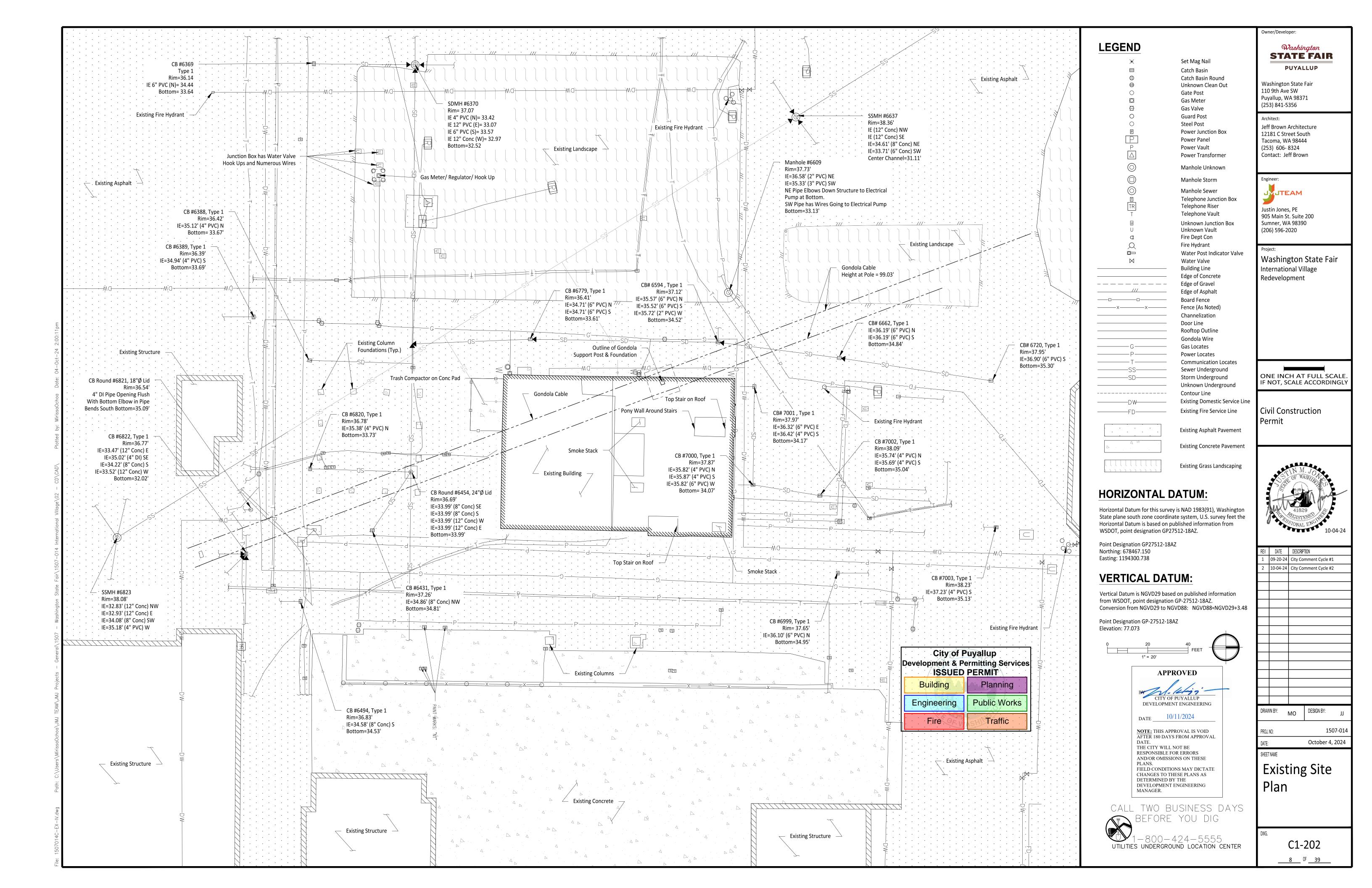
October 4, 2024

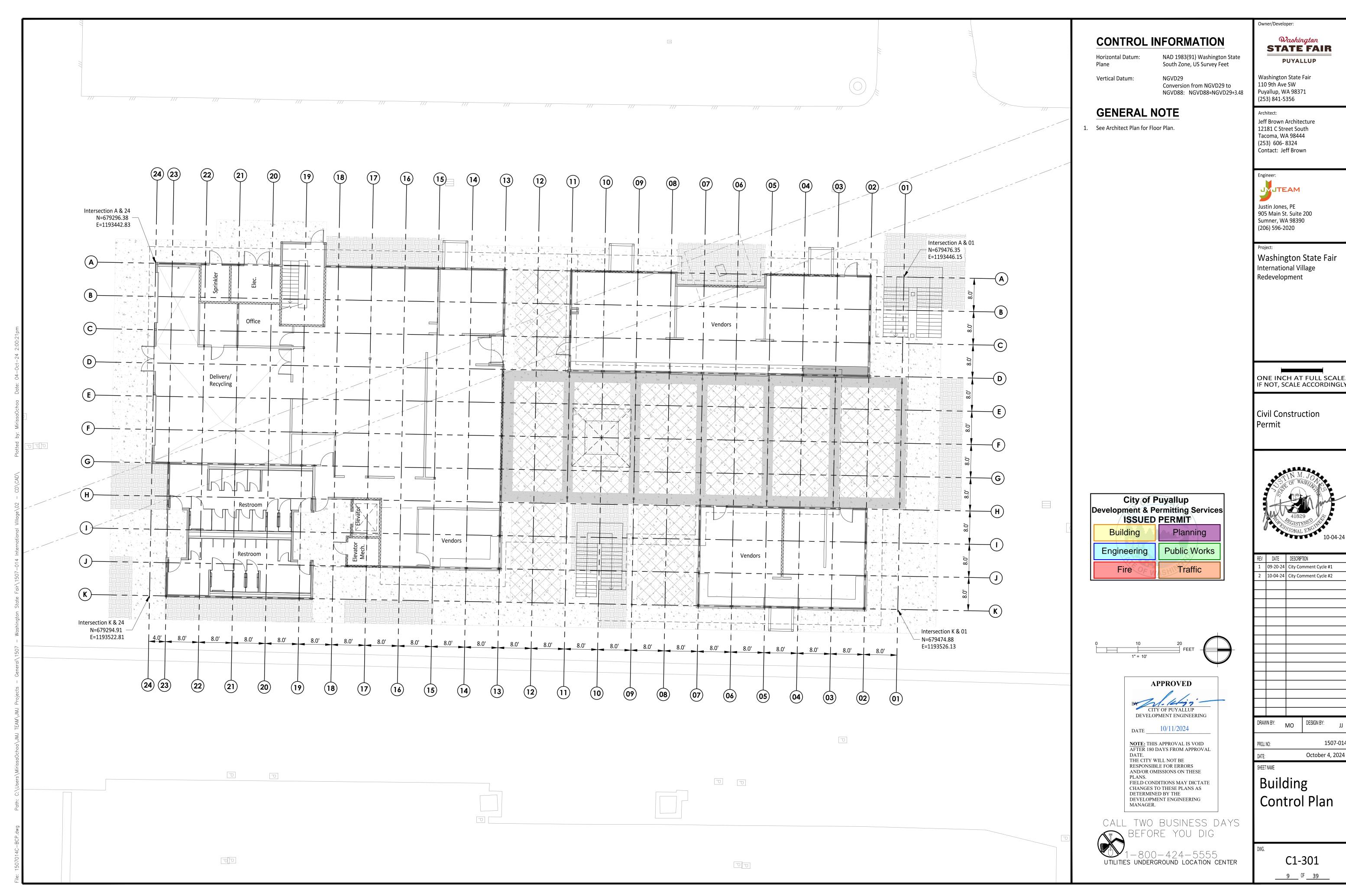
Boundary & Topographic Survey

SHEET NAME

1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

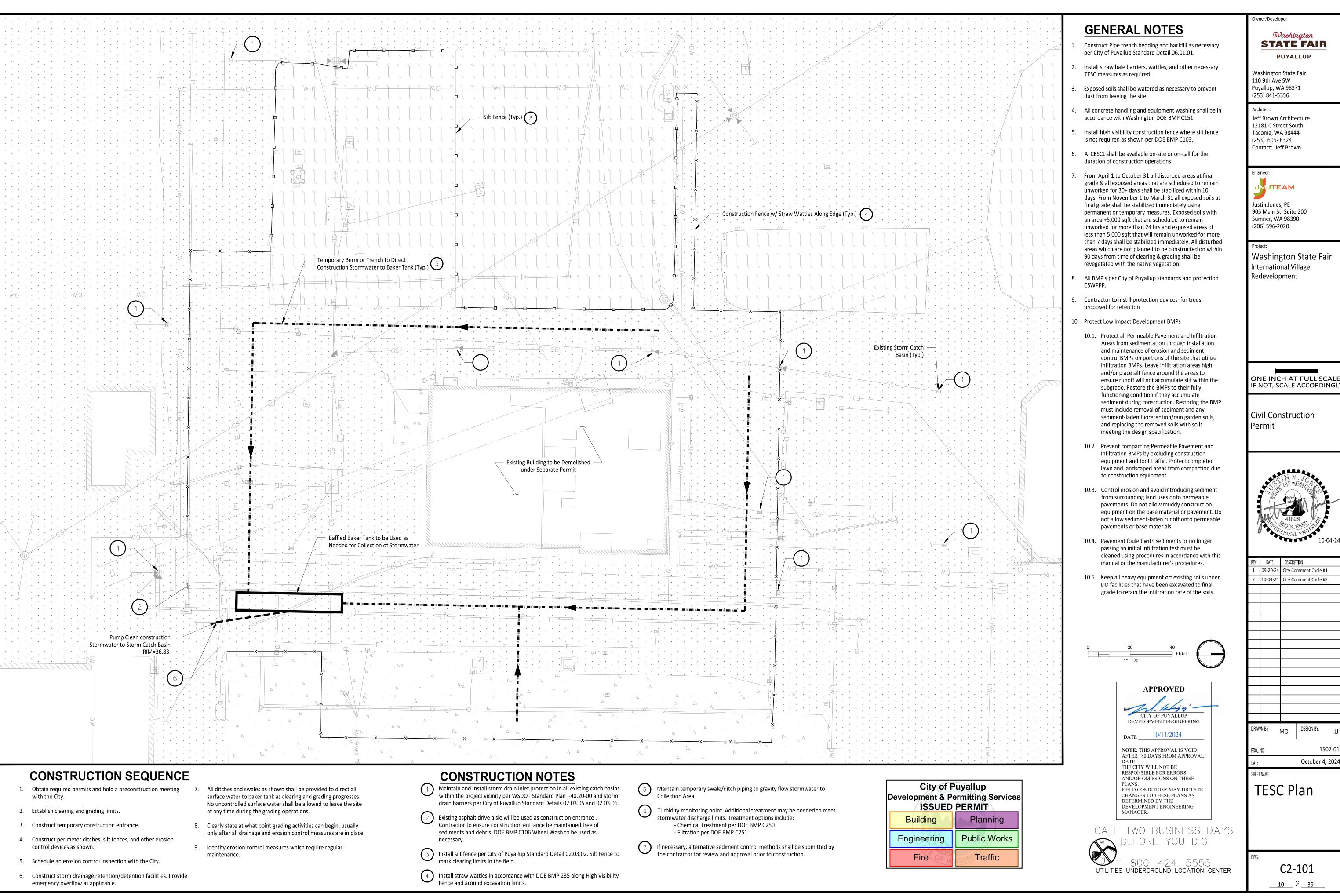
C1-201







DATE	DESCRIPTION
09-20-24	City Comment Cycle #1
10-04-24	City Comment Cycle #2



Owner/Developer:

Washington STATE FAIR

PUYALLUP

Washington State Fair

Jeff Brown Architecture 12181 C Street South

Tacoma, WA 98444

(253) 606-8324 Contact: Jeff Brown

JMJTEAM

Justin Jones, PE 905 Main St. Suite 200

(206) 596-2020

Sumner, WA 98390

International Village

IF NOT, SCALE ACCORDINGLY

REV DATE DESCRIPTION

DRAWN BY:

SHEET NAME

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TESC Plan

09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

110 9th Ave SW Puyallup, WA 98371

(253) 841-5356

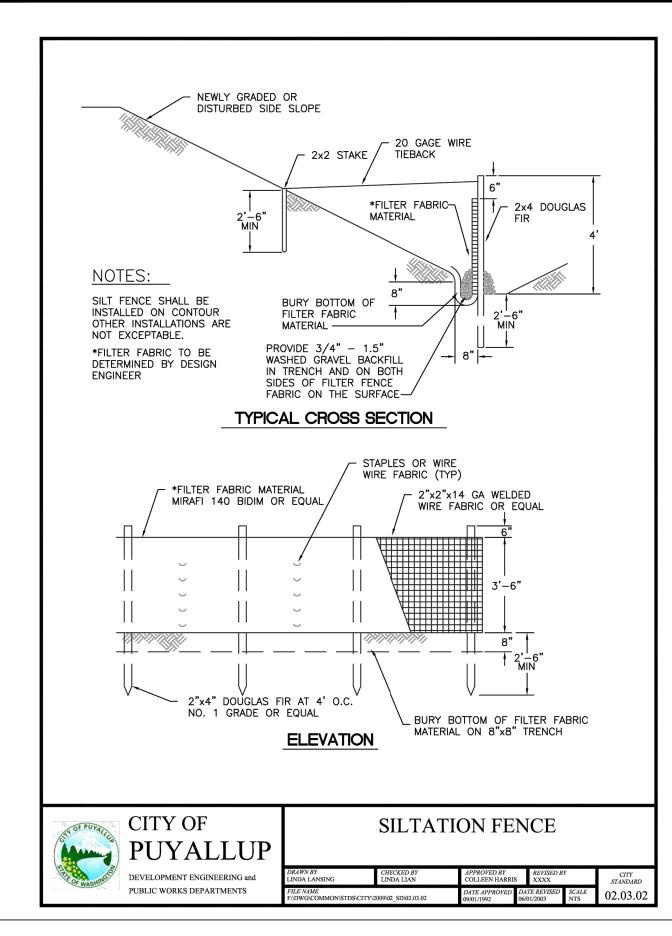
Architect:

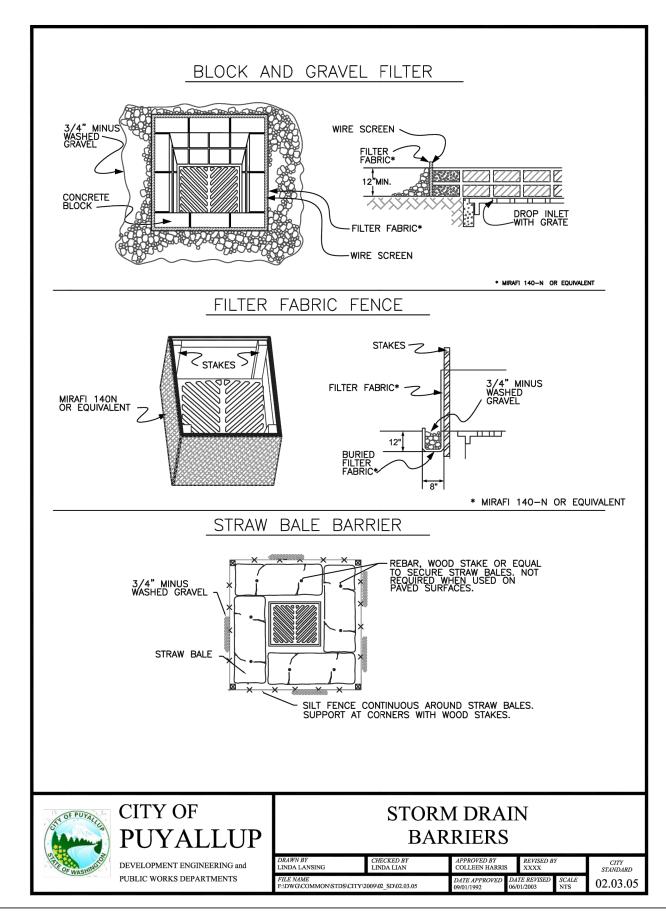
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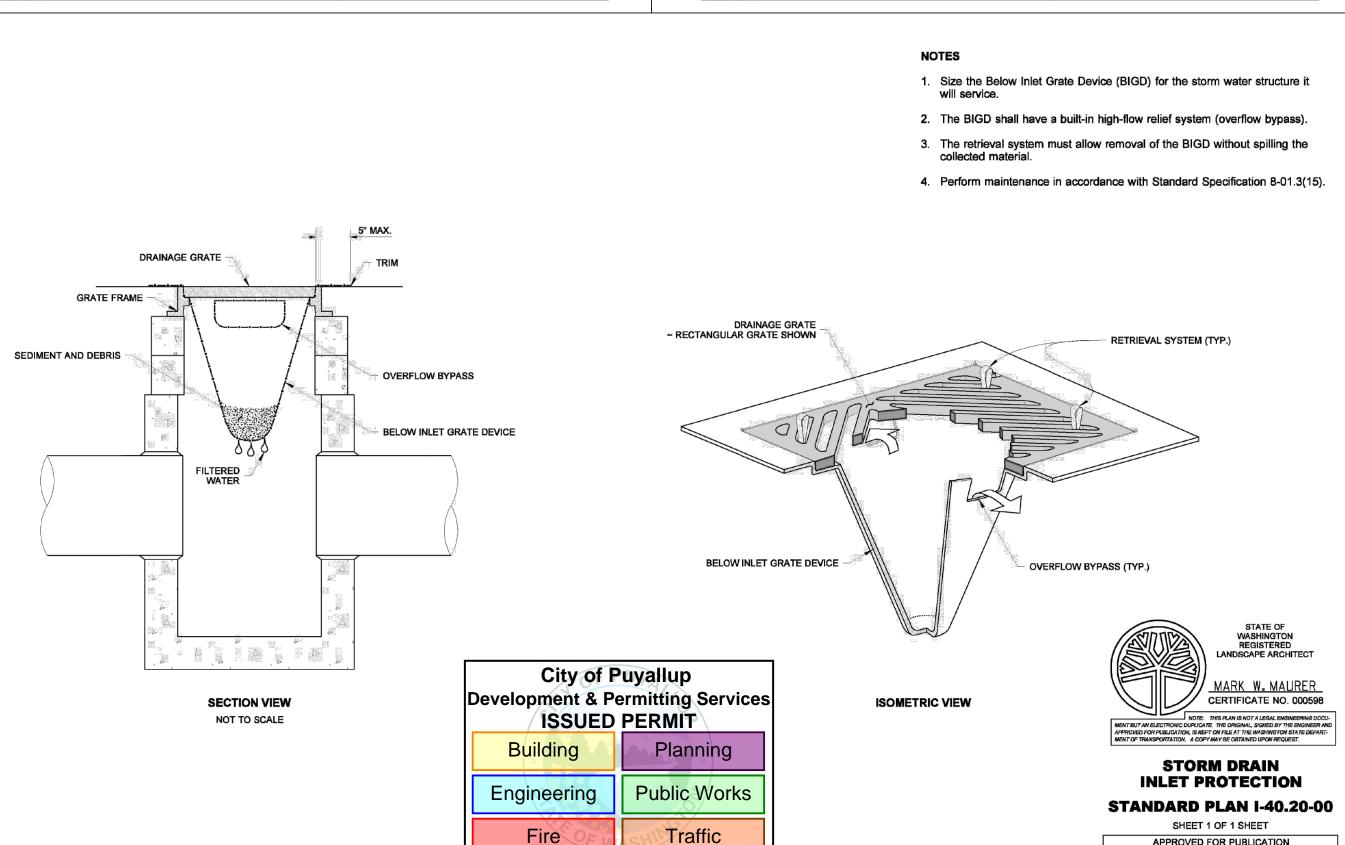
DESIGN BY:

1507-014

October 4, 2024









- 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).
- 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
- 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 AND 12-INCH WIDE. THE ROW OF BLOCKS SHOULD BE AT LEAST 12-INCHES BLOCKS THAT ARE 4-INCH AND 12-INCH WIDE. 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
- 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
- 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

Open-Top Weir

CITY OF **PUYALLU** DEVELOPMENT ENGINEERING and PUBLIC WORKS DEPARTMENTS

STORM DRAIN **BARRIERS NOTES**

DATE REVISED SCALE NTS 02.03.06

Steel Tank

Store liquids with confidence with Rain for Rent's 18,100-gallon Open-Top Wier Tank. The over and under weirs allow for separation of oils or particulates. Permanently attached axles, for maximum maneuverability, allows this tank to be moved with ease on the jobsite. The staircase ensures proper protection for workers on site. The tank also offers optional epoxy coating, which offers chemical resistance and additional cleanliness for sensitive environmental applications.

- V-drain floor with front and rear 4" 150-lb flanges with valves OSHA Compliant Stairway
- Rear 4" or 6" SCH40 fill line*
- Rear 4" or 6" skimmer port* • Each tank has 2 or 4 weirs per tank, which are up to 8.5'
- Optional: Epoxy Coating chemical resistance for a wide variety of chemical compatibility and keeps stored product within the tank cleaner

*Features may vary

APPROVED FOR PUBLICATION

Washington State Department of Transportation

Pasco Bakotich III 09-20-07

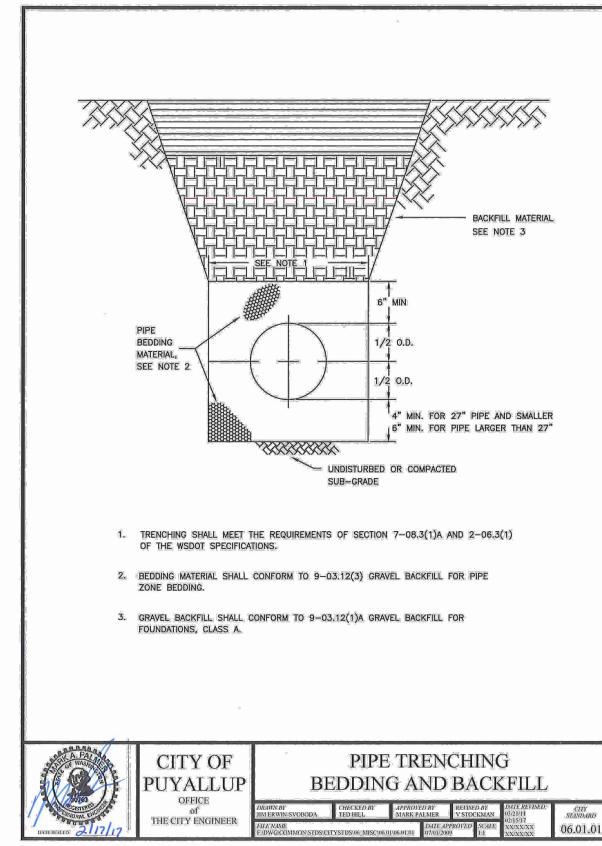
Material (Steel, Epoxy Coated (Option)
apacity	18,100 gallons
lanways	Three 22" hatches
ry weight	27,000 lbs.
ootprint:	516" x 102" x 126"
-	

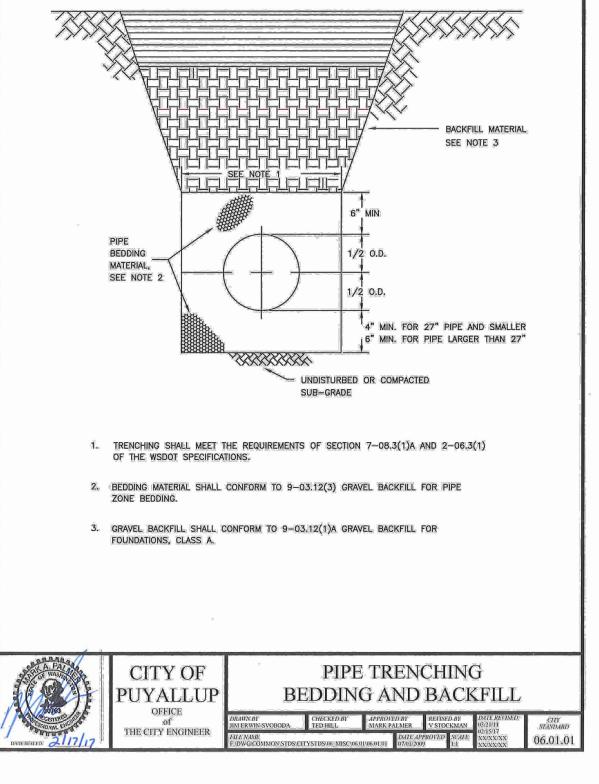
 E-CONTAIN® Spillguard SolidGroud® Traction Mats Radar Level Gauges Mechanial Level Gauge PipeStax[®]

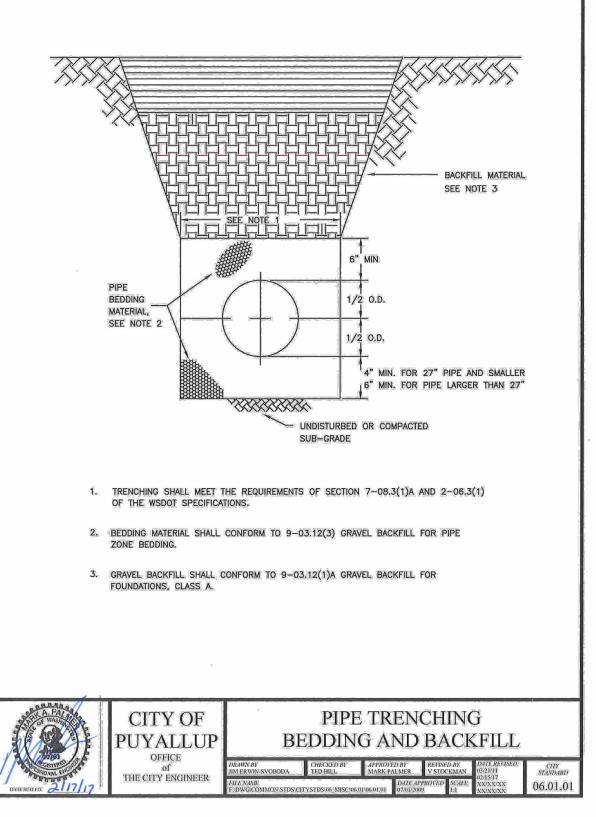
HoseTrax[®]

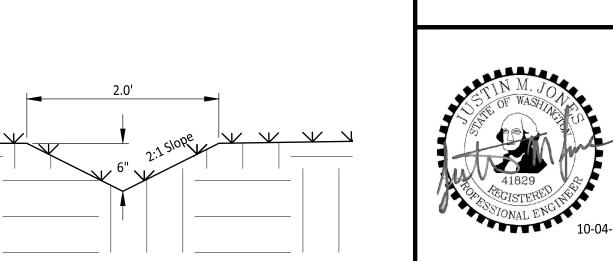
Suction and Discharge Hose

PUMPS • TANKS • FILTRATION • PIPE • SPILLGUARDS SPECIFICATIONS CONTAINED IN THIS SHEET ARE INTENDED AS A GENERAL DESCRIPTION OF EQUIPMENT CAPABILITIES. ACTUAL PERFORMANCE WILL VARY BASED UPON SYSTEM APPLICATION, AGE OF EQUIPMENT, MANUFACTURER, 800-742-7246 rainforrent.com









Owner/Developer:

Washington STATE FAIR

PUYALLUP

Washington State Fair

Jeff Brown Architecture

12181 C Street South

Tacoma, WA 98444

Contact: Jeff Brown

JTEAM

905 Main St. Suite 200

International Village

Redevelopment

Washington State Fair

ONE INCH AT FULL SCALE

IF NOT, SCALE ACCORDINGLY

Civil Construction

REV DATE DESCRIPTION

09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

Permit

Sumner, WA 98390

Justin Jones, PE

(206) 596-2020

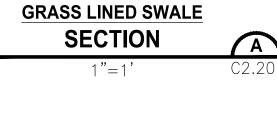
(253) 606-8324

110 9th Ave SW

Architect:

Engineer:

Puyallup, WA 98371 (253) 841-5356





TANK WEIR VIEW

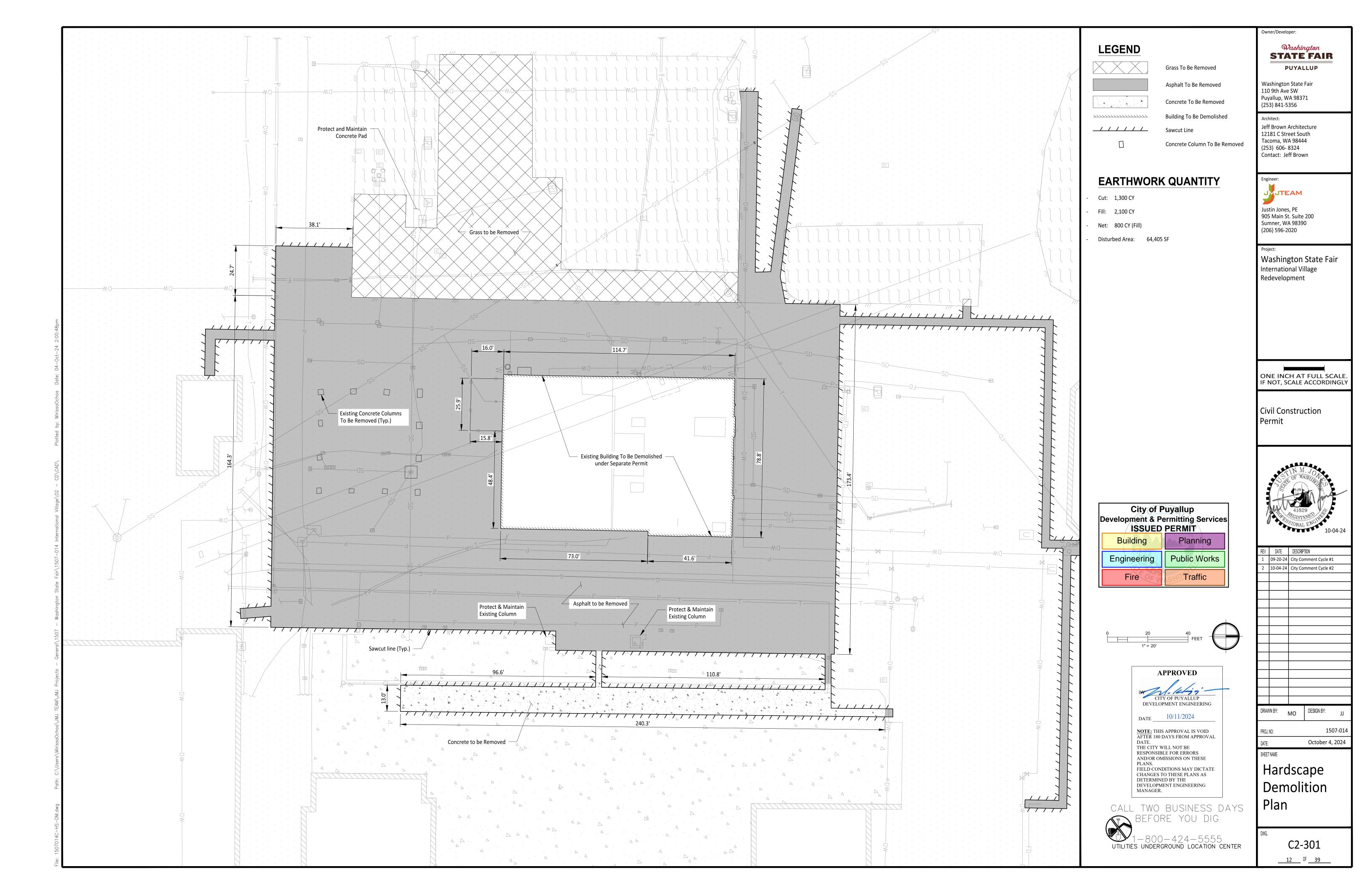


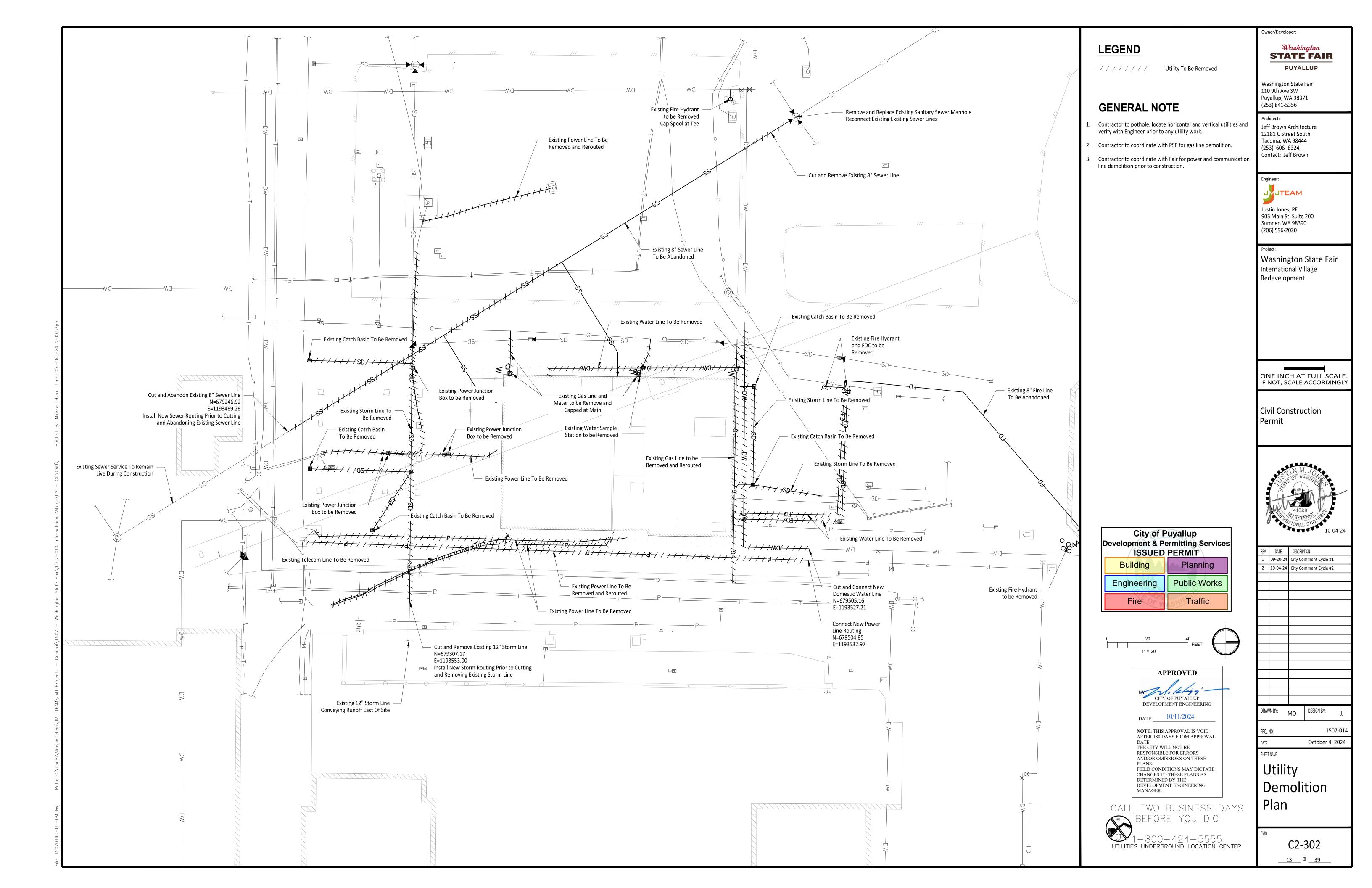
THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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

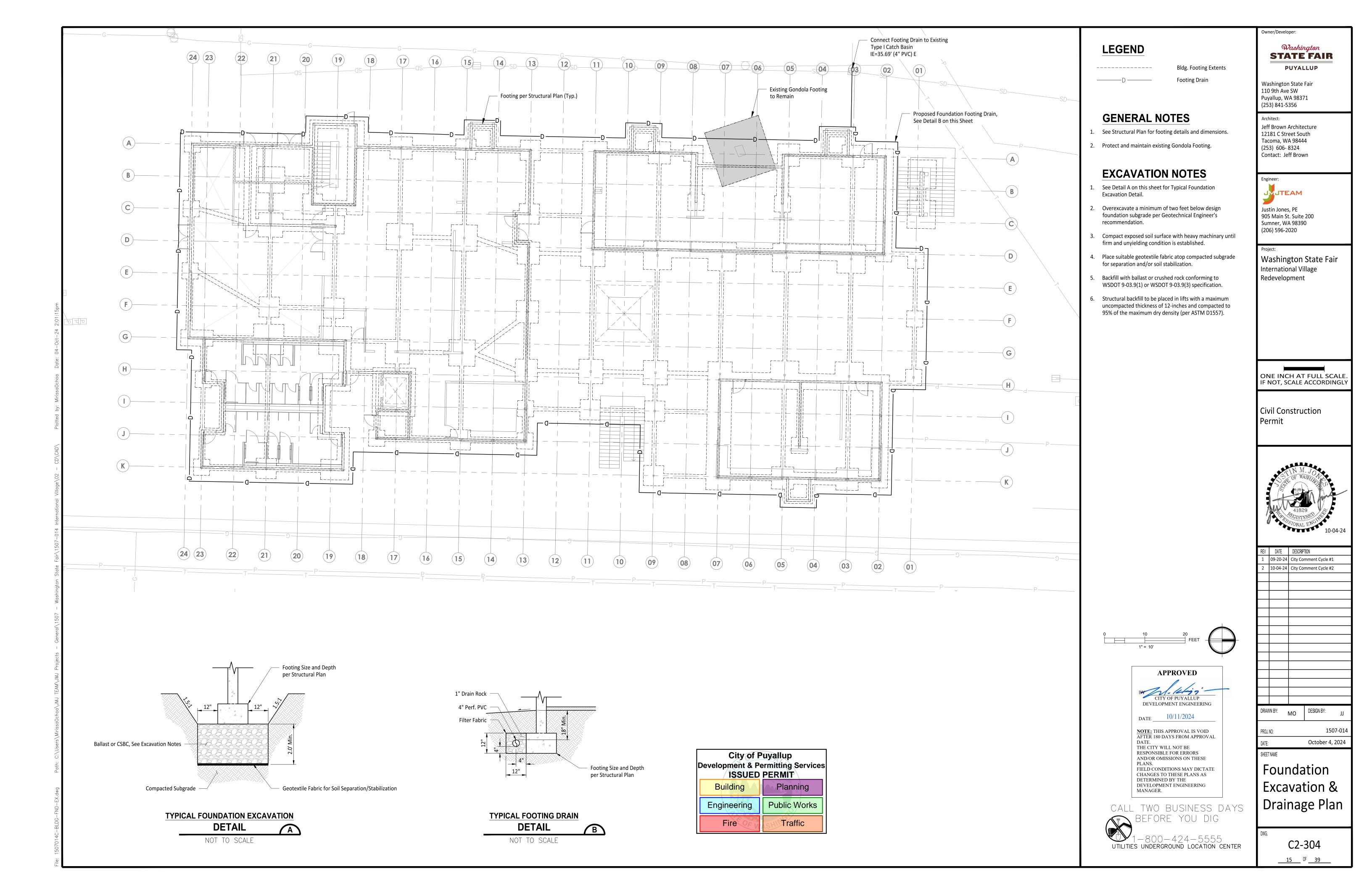
DRAWN BY: DESIGN BY: MO 1507-014 October 4, 2024 SHEET NAME **TESC Details**

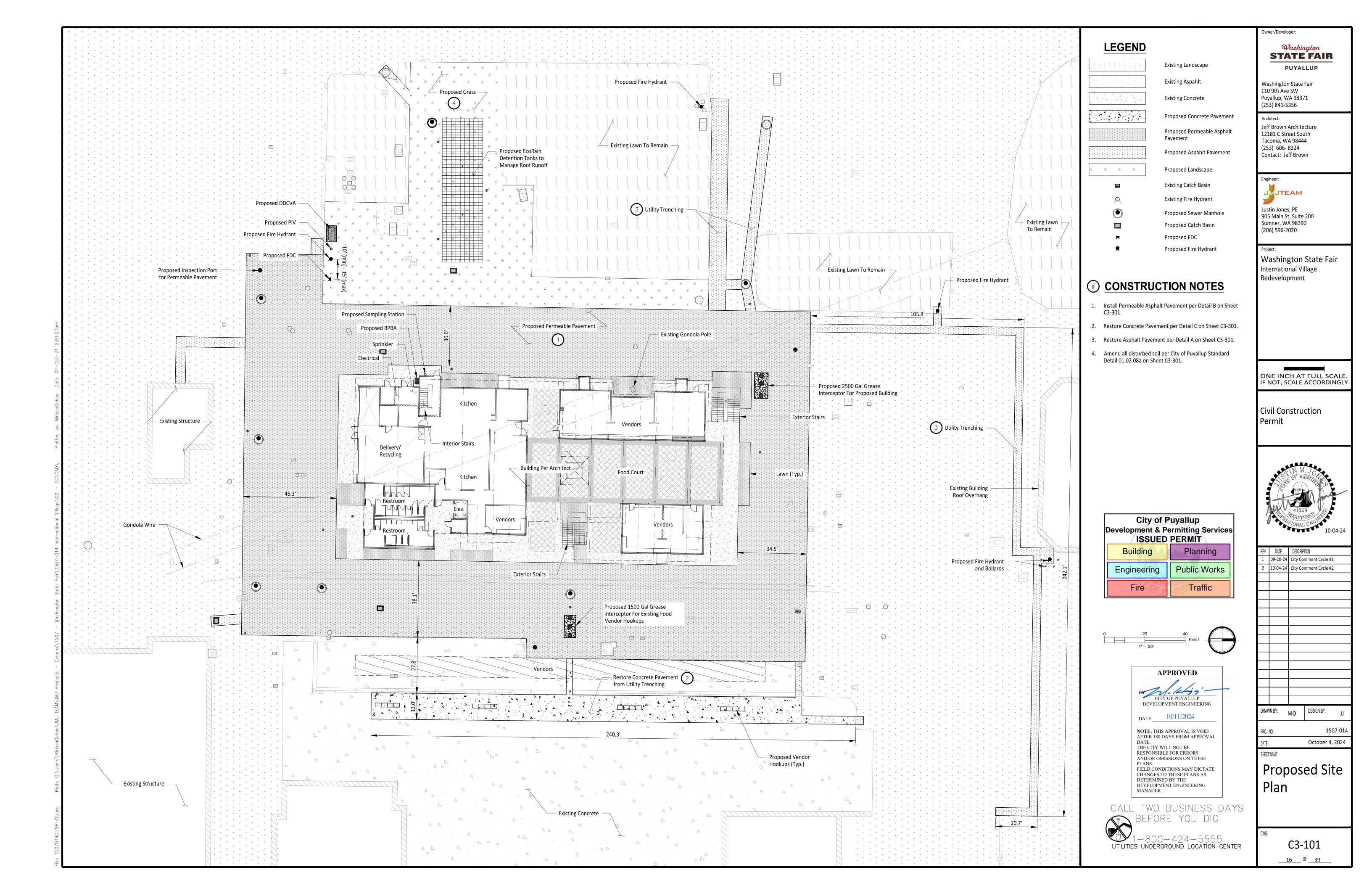
C2-201

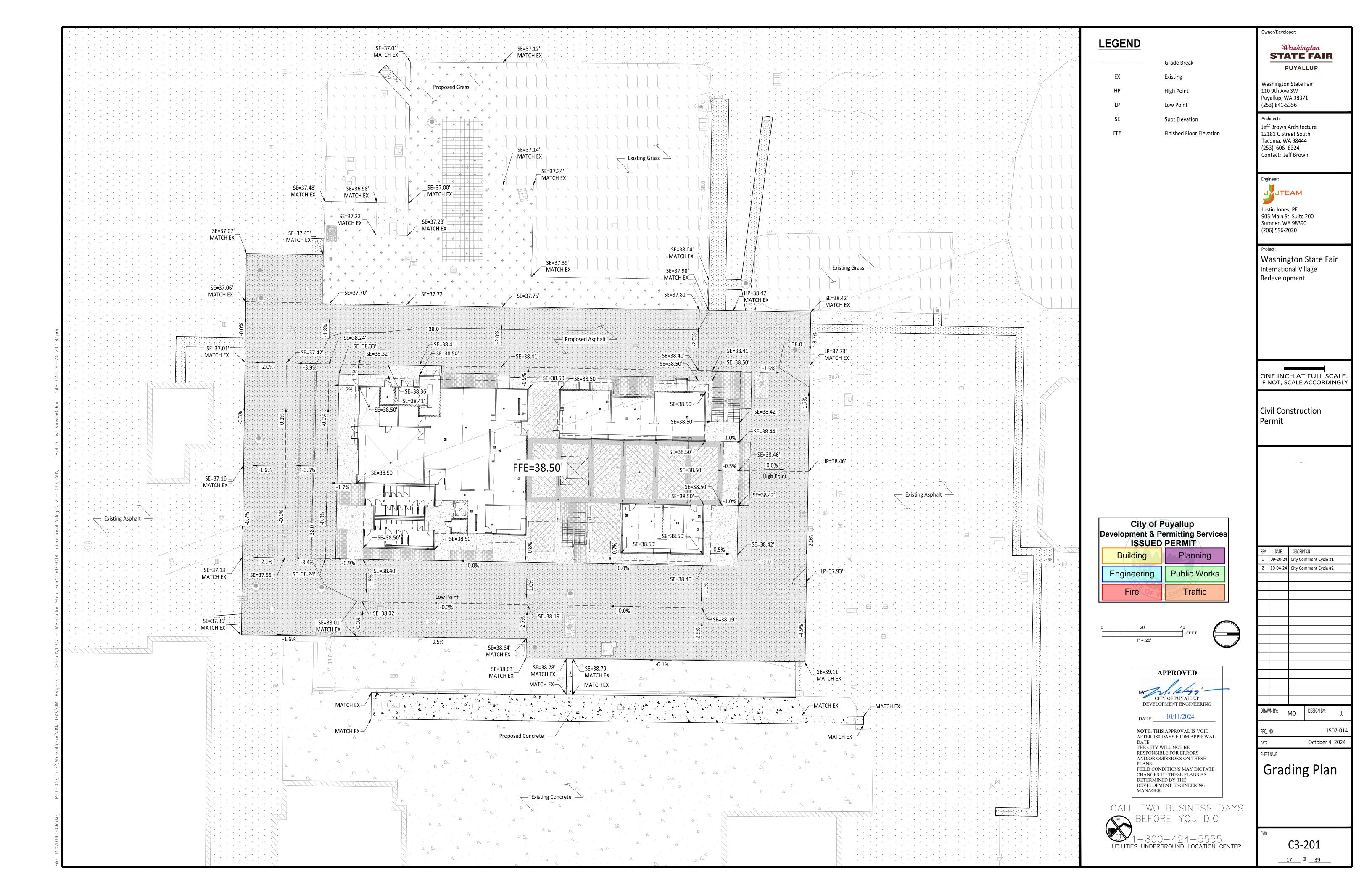












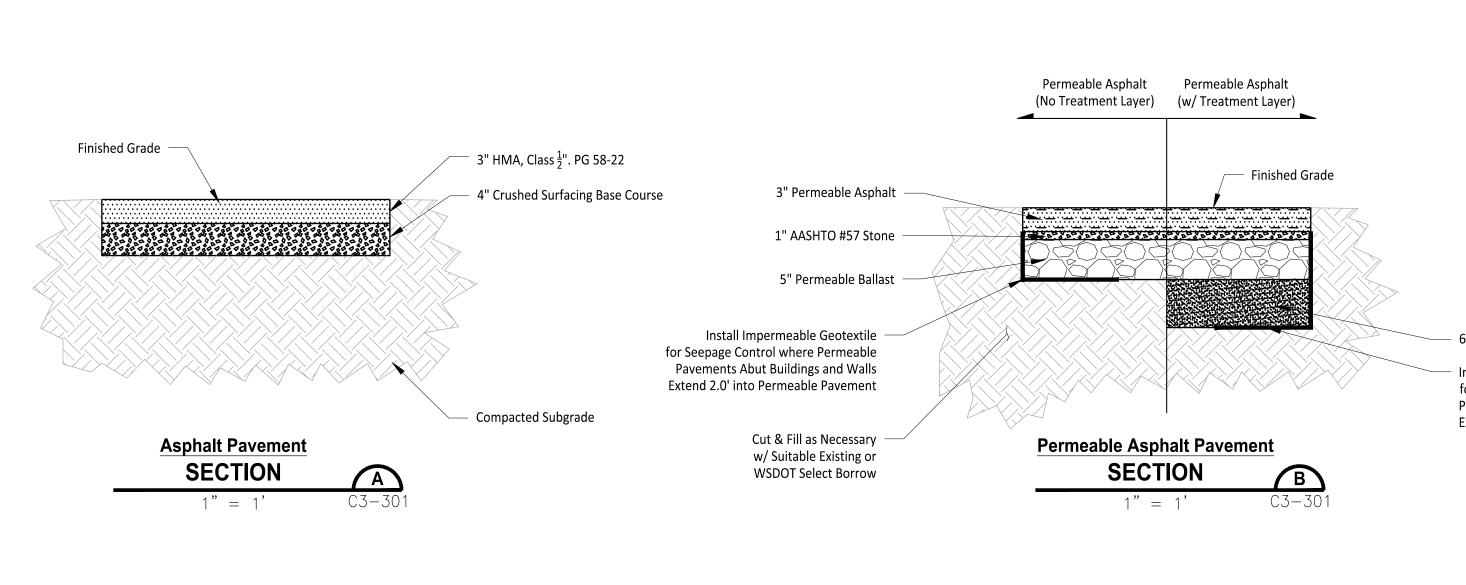
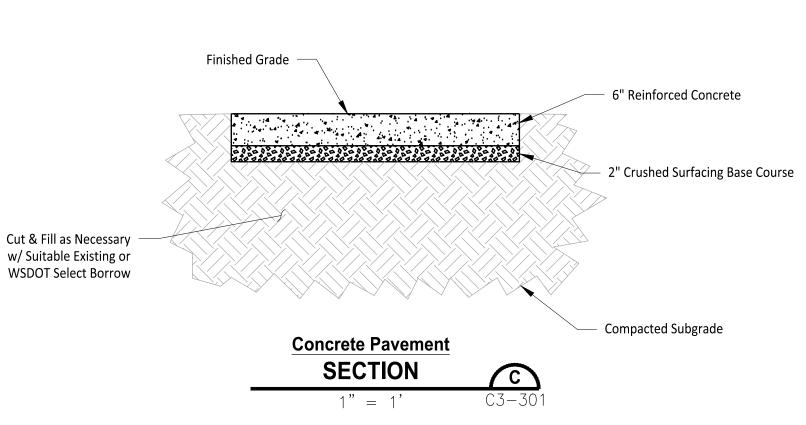
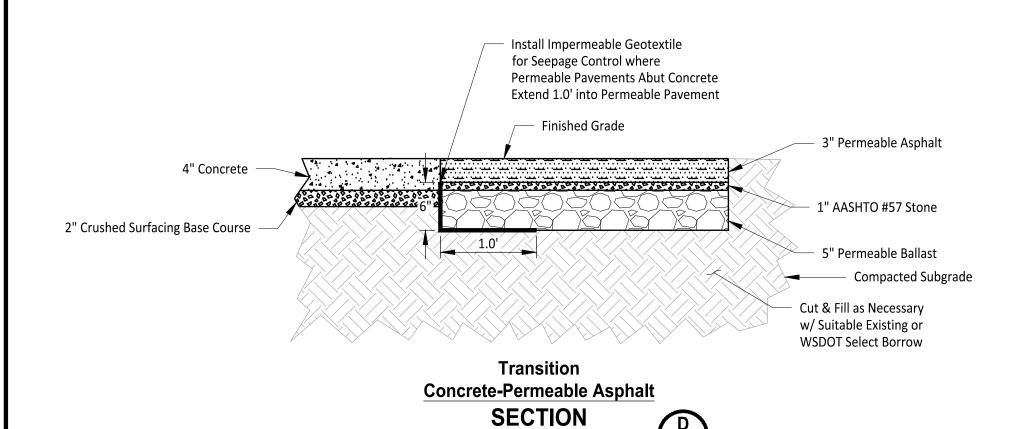


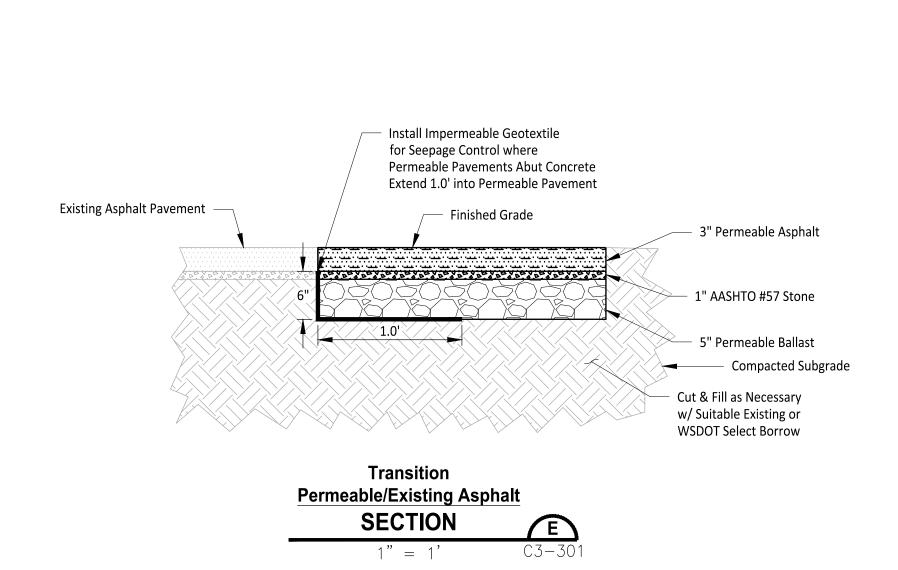
Table V-6.1: Sand Medium Specification Sieve Number Percent Passing 95-100 70-100 40-90 25-75 2-25 <4 <2 Source: (King County Department of Natural Resources, 1998)

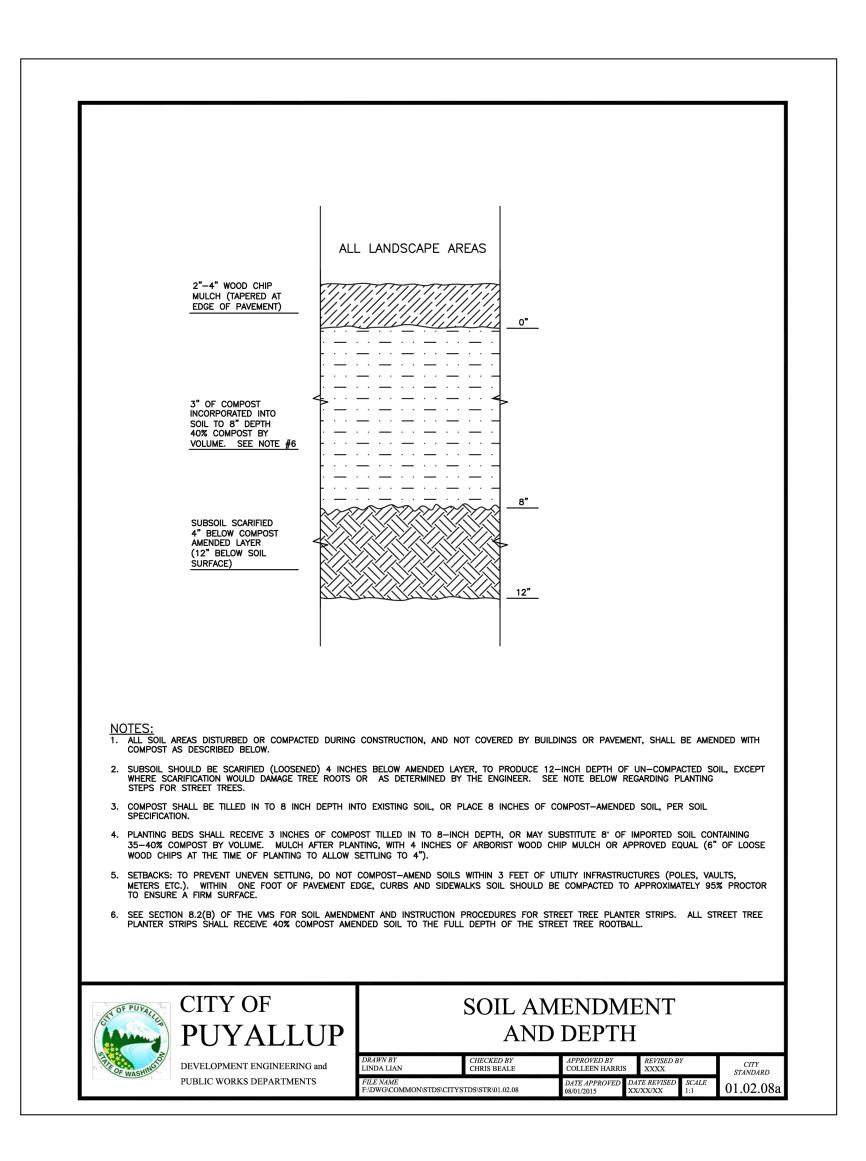
6" Medium Sand per Table V-6.1, this Sheet Install Impermeable Geotextile

for Seepage Control where Permeable Pavements Abut Buildings and Walls Extend 2.0' into Permeable Pavement



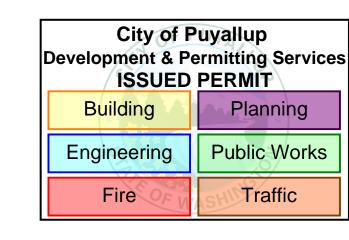


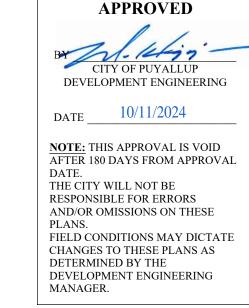




POROUS PAVEMENT SUBGRADE PREPARATION NOTES

- 1. Remove existing organic or paving materials from the surface to be prepared.
- 2. Prepare the subgrade in accordance with the geotechnical engineer's requirements and the following:
- 3. Excavation to final subgrade shall occur immediately prior to placing permeable materials. If necessary, the contractor may excavate to an intermediate subgrade elevation established at 12-inches above the final subgrade to assist with field operations.
- 4. Grading to final subgrade elevation shall be completed by machinery operation on the intermediate subgrade level or outside of the porous fill/pavement prism.
- 5. The contractor shall phase the work so as not to compromise or overly compact the subgrade. Should it be necessary for machinery or trucks to access the final subgrade in a certain area, the contractor shall protect the subgrade from over-compaction by placing steel sheets, or using another methodology approved by the geotechnical engineer and City.
- 6. Areas determined to be overly compacted in the opinion of the Engineer, Geotechnical Engineer, or City, shall be scarified by the contractor to a depth agreed upon by the Engineer, Geotechnical Engineer, and City.
- 7. Loose or disturbed areas identified during excavation to grade shall be over-excavated to firm bearing and replaced with APWA/WSDOT GSP permeable ballast.
- 8. Approved porous fill materials shall be back-dumped onto the subgrade from the edge of the installation and pushed out onto the subgrade.
- 9. Trucks shall then back-dump subsequent loads on top of the previously dumped/pushed material as the installation progresses.
- 10. Final compaction shall be verified by the Geotechnical Engineer.





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: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown

JTEAM Justin Jones, PE

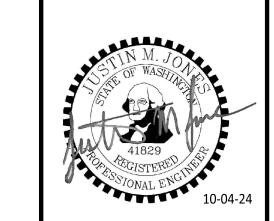
905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

Washington State Fair International Village

Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

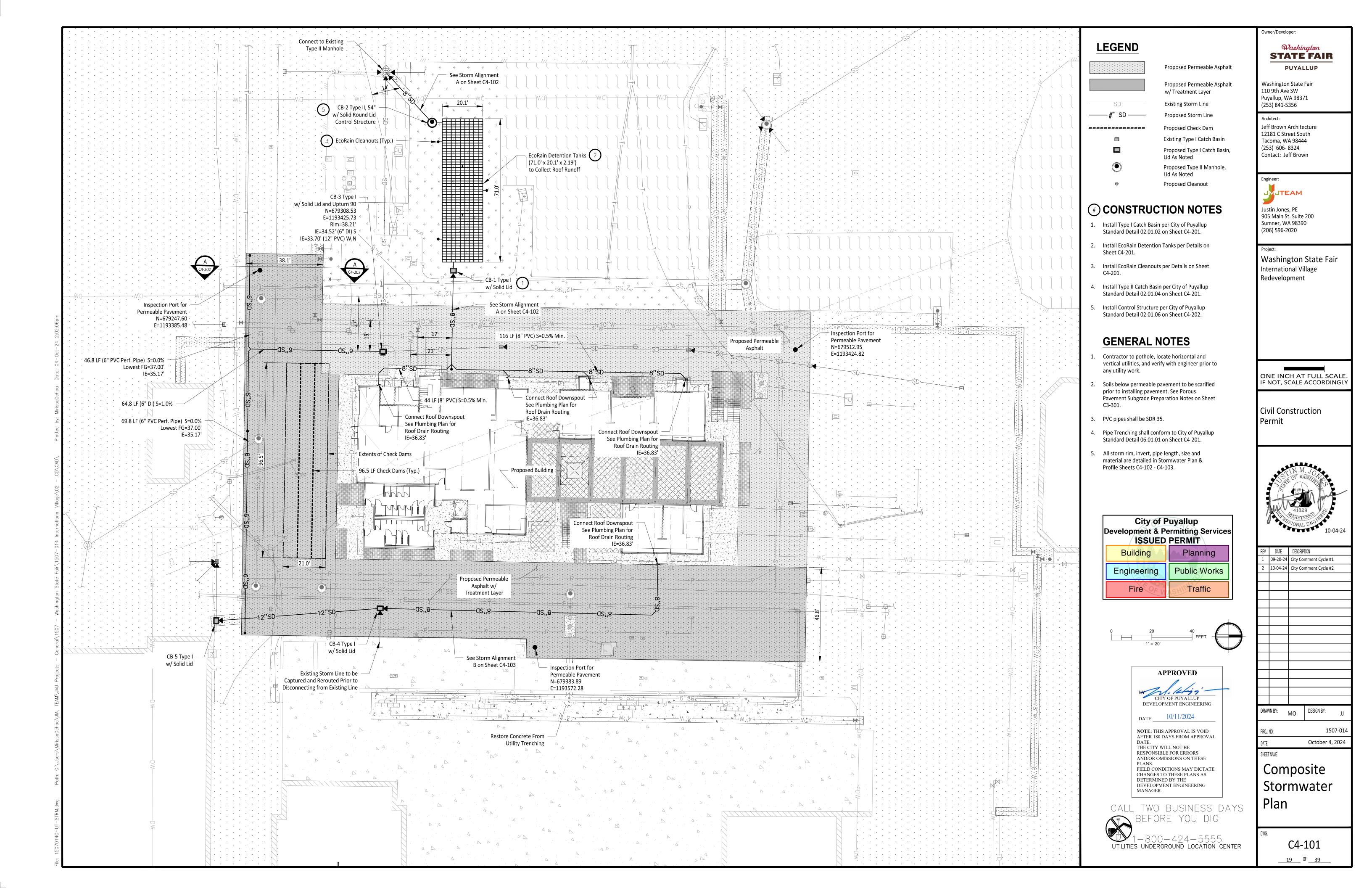
Civil Construction Permit

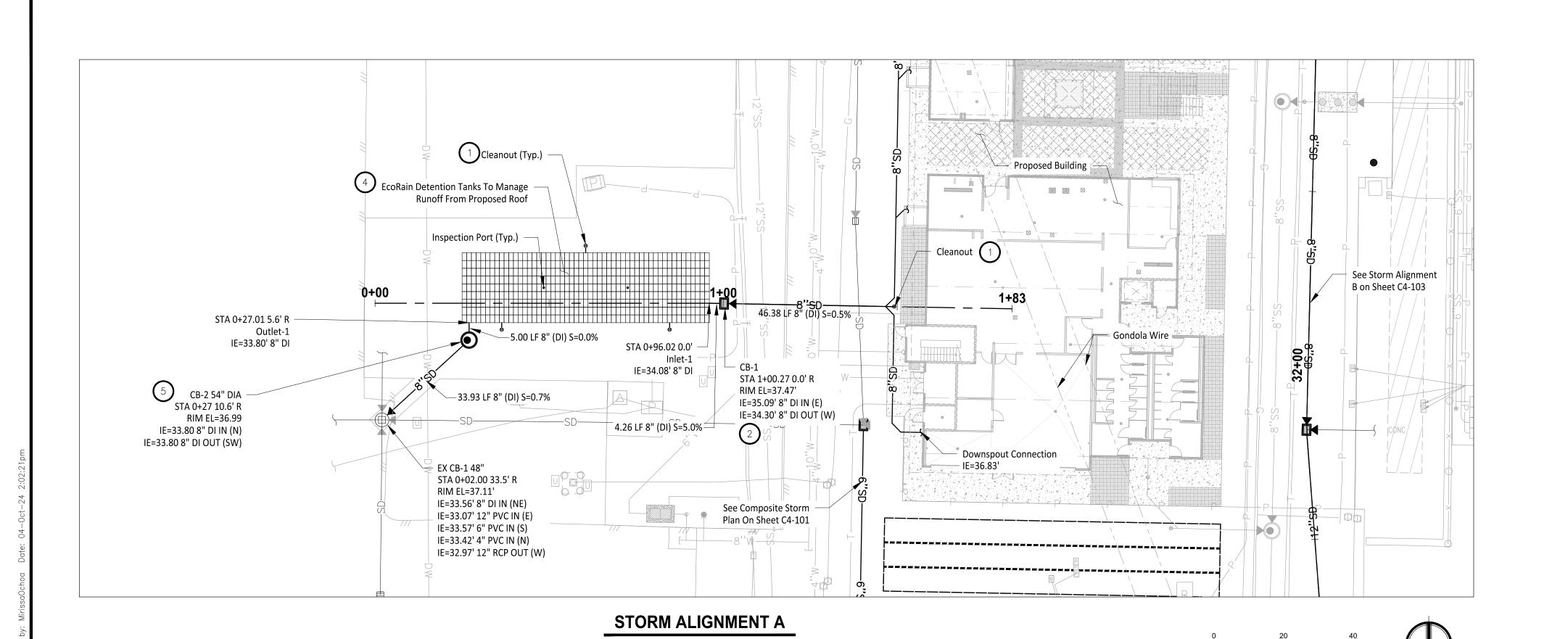


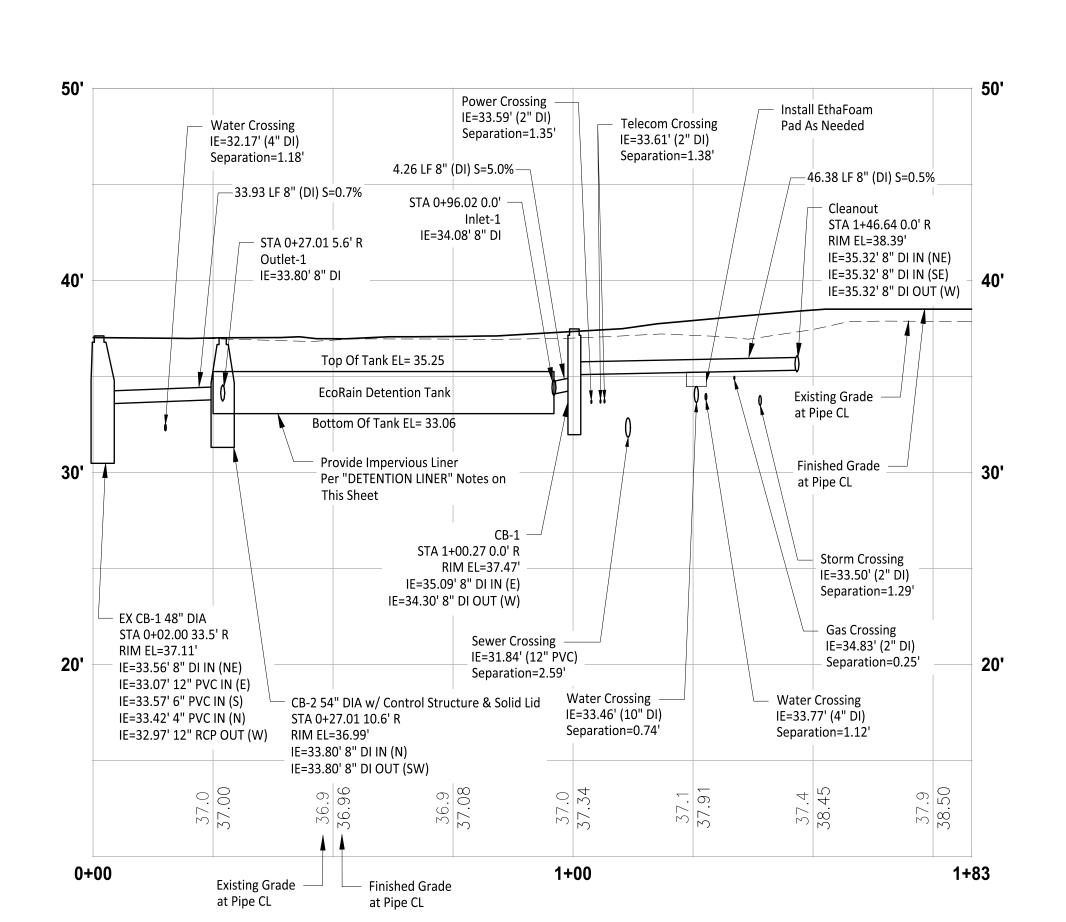
REV	DATE	DESCRIP	TION	
1	09-20-24	City Co	mment Cycle #:	1
2	10-04-24	City Co	mment Cycle #2	2
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DIVAV	ויטוי. ן	MO	DESIGN D1.	IJ
PROJ.	NO·		15	07-014
DATE:	DATE: October 4, 2024			
SHEET	SHEET NAME			
-	larc	lsc	ape	

C3-301

Details







STORM ALIGNMENT A PROFILE

HORIZ: 1"=20' VERT: 1"=5"

DETENTION LINER

- 1. CONTRACTOR TO PROVIDE IMPERVIOUS GEOMEMBRAIN LINER AROUND DETENTION SYSTEM TO ENSURE THE SYSTEM DOES NOT ALLOW GROUNDWATER TO ENTER DETENTION SYSTEM.
- 2. LINER TO BE THE FOLLOWING TYPES AND MINIMUM THICKNESS OR APPROVED EQUIVALENT.
- 2.1. LINEAR LOW-DENSITY POLYETHYLENE (LLDPE).
- LLDPE SHEET: FORMULATED FROM VIRGIN PE, COMPOUNDED FOR USE IN HYDRAULIC STRUCTURES, AND FORMED INTO UNIFORM SHEETS WITH MATERIAL PROPERTIES COMPLYING WITH GRI TEST METHOD GM17, NON-REINFORCED FOR THICKNESS INDICATED.
- MINIMUM AVERAGE SHEET THICKNESS: 40 MILS PER ASTM D5199.
- NOMINAL SHEET THICKNESS: 45 MILS PER ASTM D5199.
- SHEET TEXTURE: ONE SIDE SMOOTH; OTHER SIDE SMOOTH OR TEXTURE 2.1.1.3. 2.2. HIGH-DENSITY POLYETHYLENE (HDPE).
- HDPE SHEET: FORMULATED FROM VIRGIN PE, COMPOUNDED FOR USE IN HYDRAULIC STRUCTURES, AND FORMED INTO UNIFORM SHEETS WITH MATERIAL PROPERTIES COMPLYING WITH GRI TEST METHOD GM13 FOR THICKNESS INDICATED.
- MINIMUM AVERAGE SHEET THICKNESS: 40 MILS PER ASTM D5199. SHEET TEXTURE: ONE SIDE SMOOTH; OTHER SIDE SMOOTH OR TEXTURED.
- 2.3.1. PP SHEET: FORMULATED FROM VIRGIN PP, COMPOUNDED FOR USE IN HYDRAULIC STRUCTURES, AND FORMED INTO UNIFORM, FLEXIBLE SHEETS WITH MATERIAL PROPERTIES COMPLYING WITH GRI TEST METHOD GM18 FOR THICKNESS
- MINIMUM AVERAGE SHEET THICKNESS: 40 MILS PER ASTM D5199.
- 2.3.1.2. REINFORCING SCRIM: ONE-PLY POLYESTER FABRIC TOTALLY ENCAPSULATED BETWEEN TWO SHEETS.
- 2.3.1.2.1. CONSTRUCTION: 10 X 10 - 1000 D
- 2.3.1.3. SHEET TEXTURE: ONE SIDE SMOOTH; OTHER SIDE SMOOTH OR TEXTURED.
- 2.4. POLYVINYL CHLORIDE (PVC).
- 2.4.1. PVC SHEET: FORMULATED FROM VIRGIN PVC WITH PLASTICIZERS AND OTHER MODIFIERS, COMPOUNDED FOR USE IN HYDRAULIC STRUCTURES, AND FORMED INTO UNIFORM, FLEXIBLE NON-REINFORCED SHEETS WITH MATERIAL PROPERTIES COMPLYING WITH ASTM D7176 FOR NOMINAL THICKNESS INDICATED. NOMINAL THICKNESS: 40 MILS.
- 2.4.1.2. SHEET TEXTURE: ONE SIDE SMOOTH; OTHER SIDE SMOOTH OR TEXTURED

PROJECTIONS THROUGH GEOMEMBRANE LINER. PERMANENTLY SECURE EDGES.

- 2.5. ADHESIVES: PROVIDE TYPES OF ADHESIVE PRIMERS, COMPOUNDS, SOLVENTS, AND TAPES RECOMMENDED IN WRITING BY GEOMEMBRANE LINER MANUFACTURER FOR BONDING TO STRUCTURES (IF REQUIRED) FOR SEALING PENETRATIONS THROUGH GEOMEMBRANE LINER. ALL SEAMS TO BE WELDED (FUSED) JOINTS.
- FABRICATE GEOMEMBRANE LINER PANELS FROM SHEETS IN SIZES AS LARGE AS POSSIBLE WITH FACTORY-SEALED SEAMS,
- CONSISTENT WITH LIMITATIONS OF WEIGHT AND INSTALLATION PROCEDURES. MINIMIZE FIELD SEAMING. GENERAL: PLACE GEOMEMBRANE LINER OVER PREPARED SURFACES TO ENSURE MINIMUM HANDLING. INSTALL ACCORDING TO SHOP DRAWINGS AND IN COMPLIANCE WITH GEOMEMBRANE LINER MANUFACTURER'S WRITTEN INSTRUCTIONS. BEGIN PLACING GEOMEMBRANE LINER AT PROJECT'S UPWIND DIRECTION AND PROCEED DOWNWIND. INSTALL GEOMEMBRANE LINER IN A RELAXED CONDITION, FREE FROM STRESS AND WITH MINIMUM WRINKLES, AND IN FULL CONTACT WITH SUBGRADE. DO NOT BRIDGE OVER VOIDS OR LOW AREAS IN THE SUBGRADE. FIT CLOSELY AND SEAL AROUND INLETS, OUTLETS, AND OTHER
- 2.8. FIELD SEAMS: SEAMING SHALL PRIMARILY BE PERFORMED USING AUTOMATIC FUSION WELDING EQUIPMENT AND TECHNIQUES. USE OF EXTRUSION WELDING TAKES PLACE WHERE FUSION WELDING IS NOT POSSIBLE SUCH AS AT PIPE PENETRATIONS, PATCHES, REPAIRS AND SHORT (LESS THAN A ROLL WIDTH) RUNS OF SEAMS. NOTE: FLAPS SHOULD NOT BE REMOVED AS PART OF THE WELDING PROCESS AS THIS MAY DAMAGE THE SEAM.
- 2.9. PIPE PENETRATIONS: CONSTRUCT ALL PENETRATIONS FROM THE BASE GEOMEMBRANE MATERIAL, FLAT STOCK, PREFABRICATED BOOTS AND ACCESSORIES AS SHOWN ON THE PROJECT DRAWINGS. IN THE CASE OF STRUCTURED LINERS SUCH AS SUPERGRIPNET™, DRAINLINER™ OR SIMILAR MATERIALS OFFERED BY AGRU AMERICA, INC., USE THE SMOOTH OR TEXTURED LINER OF THE SAME DENSITY FOR SUCH FABRICATIONS. WELD THE PREFABRICATED OR FIELD FABRICATED ASSEMBLY TO THE GEOMEMBRANE AS SHOWN ON THE PROJECT DRAWINGS TO PREVENT LEAKAGE. ONCE COMPLETE, TEST THE ASSEMBLY. IF THE INSTALLER CANNOT PERFORM THE FIELD NON-DESTRUCTIVE TESTING, ATTACHMENTS WILL BE FIELD SPARK TESTED BY STANDARD HOLIDAY LEAK DETECTORS IN ACCORDANCE WITH ASTMD 6365. SPARK TESTING SHOULD BE DONE IN AREAS WHERE BOTH AIR PRESSURE TESTING AND VACUUM TESTING IS NOT POSSIBLE

LEGEND

Proposed Concrete Pavement

Proposed Catch Basin Type II

Existing Catch Basin

Proposed Catch Basin Type I

(#) CONSTRUCTION NOTES

- 1. Install EcoRain Cleanouts per Details on Sheet C4-201.
- 2. Install Type I Catch Basin per City of Puyallup Std Detail 02.01.02 on Sheet C4-201.
- 3. Install Type II Catch Basin per City of Puyallup Std Detail 02.01.04 on Sheet C4-201.
- 4. Install EcoRain Detention Tank per Details on Sheet C4-201.
- Install Control Structure per City of Puyallup Standard Detail 02.01.06 on Sheet C4-202.

Washington STATE FAIR **PUYALLUP**

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

Architect:

Owner/Developer:

Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown

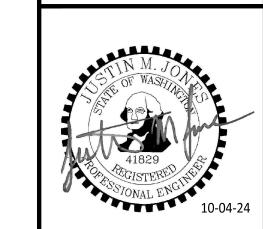


Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

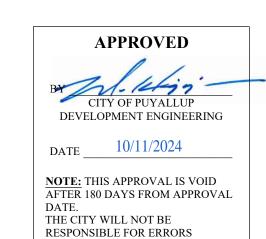
Civil Construction Permit



		, I	REV	DATE	DESCRIPTION
City of Puyallup			1	09-20-24	City Comment Cycle #1
- / - > /	Development & Permitting Services			10-04-24	City Comment Cycle #2
ISSUED	PERMIT				
Building	Planning				
	Dublic Works				
Engineering	Public Works				
Fire	Traffic				
I IIO OF M	Stirramo				
					·

DRAWN BY:

SHEET NAME



AND/OR OMISSIONS ON THESE

CHANGES TO THESE PLANS AS

DEVELOPMENT ENGINEERING

DETERMINED BY THE

MANAGER.

FIELD CONDITIONS MAY DICTATE

CALL TWO BUSINESS DAYS BEFORE YOU DIG

-800 - 424 - 5555

UTILITIES UNDERGROUND LOCATION CENTER

Stormwater Plan & Profile

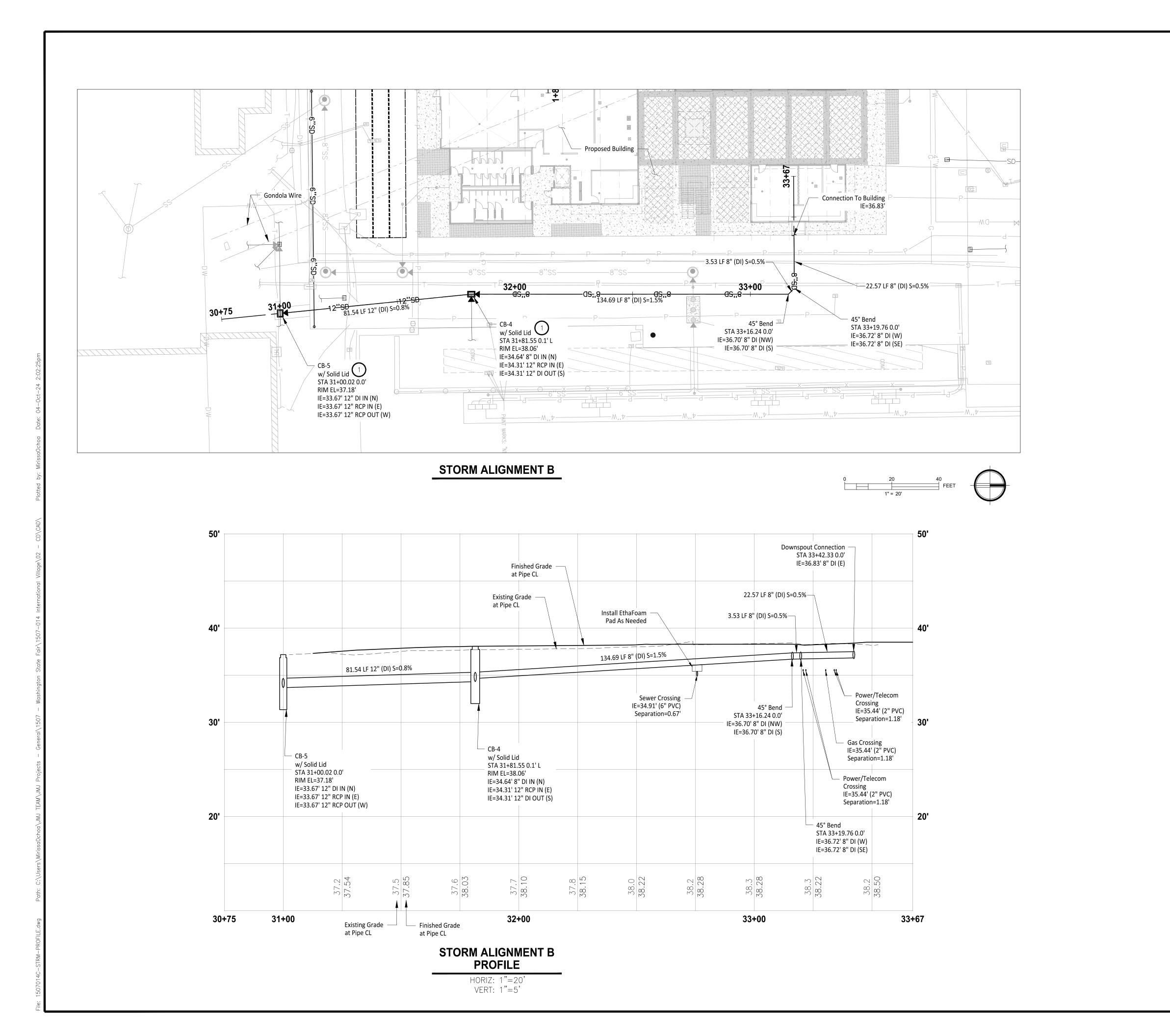
MO

DESIGN BY:

1507-014

October 4, 2024

C4-102



LEGEND

Existing Landscape **Existing Aspahlt**

Existing Concrete

Proposed Permeable Asphalt Pavement

Proposed Aspahlt Pavement

Proposed Concrete Pavement

 \leftarrow \leftarrow \leftarrow

Proposed Landscape

Existing Catch Basin

Proposed Catch Basin Type I

Proposed Catch Basin Type II

(#) CONSTRUCTION NOTES

- Install Type I Catch Basin per City of Puyallup Std Detail 02.01.02 on Sheet C4-201.
- 2. Install Type II Catch Basin per City of Puyallup Std Detail 02.01.04 on Sheet C4-201.

Owner/Developer:

Washington STATE FAIR **PUYALLUP**

Washington State Fair 110 9th Ave SW Puyallup, WA 98371

(253) 841-5356 Architect:

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JMJTEAM

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

Washington State Fair International Village Redevelopment

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Civil Construction Permit

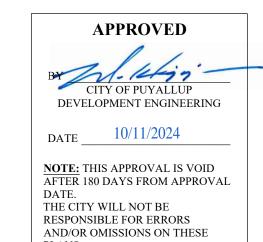


REV DATE DESCRIPTION

. 09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

City of P Development & Pe	ermitting Services
Building	Planning
Engineering	Public Works
Fire OF W	SHITraffic



MANAGER. CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

UTILITIES UNDERGROUND LOCATION CENTER

FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
DEVELOPMENT ENGINEERING

Storm Plan & Profile

DESIGN BY:

1507-014

October 4, 2024

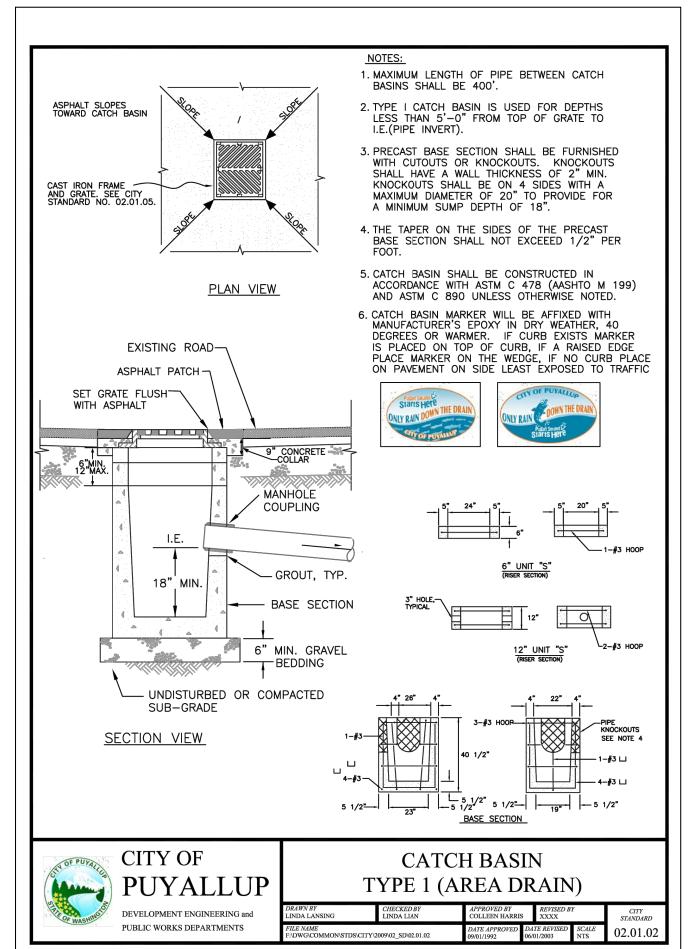
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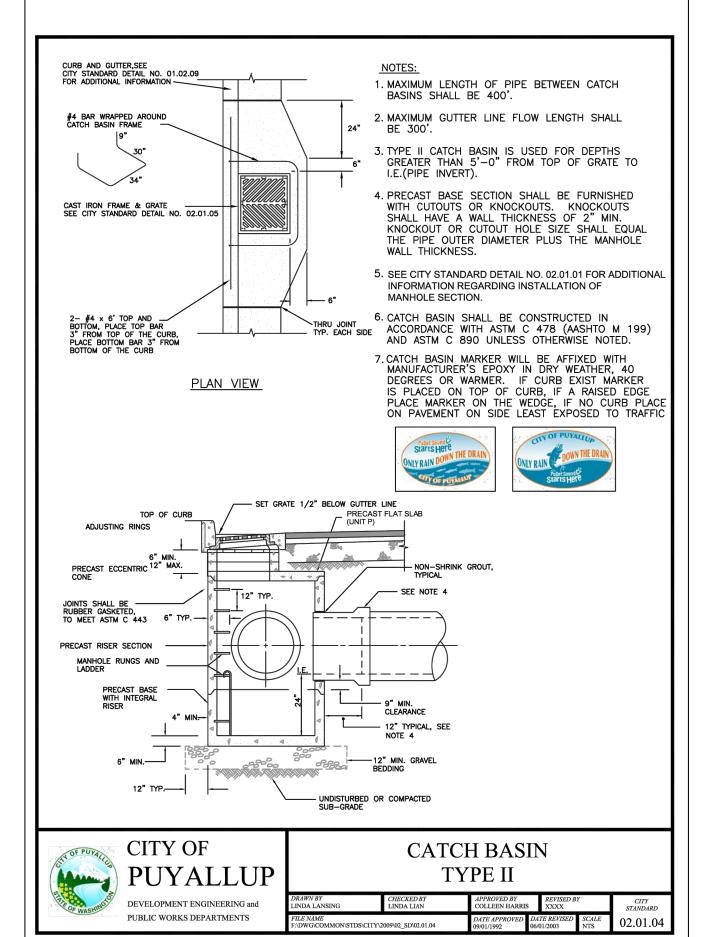
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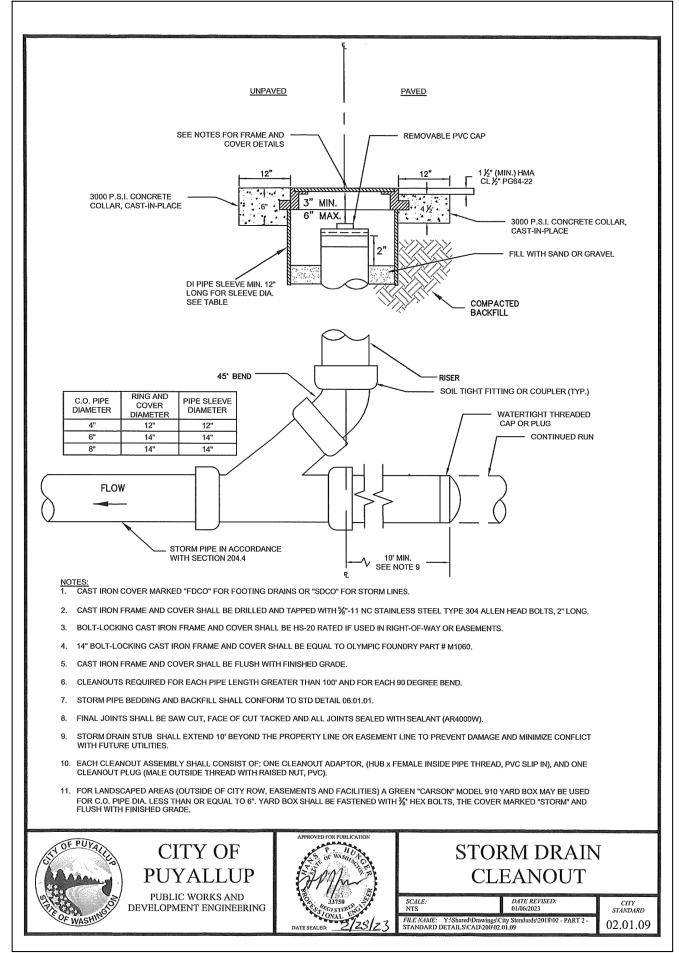
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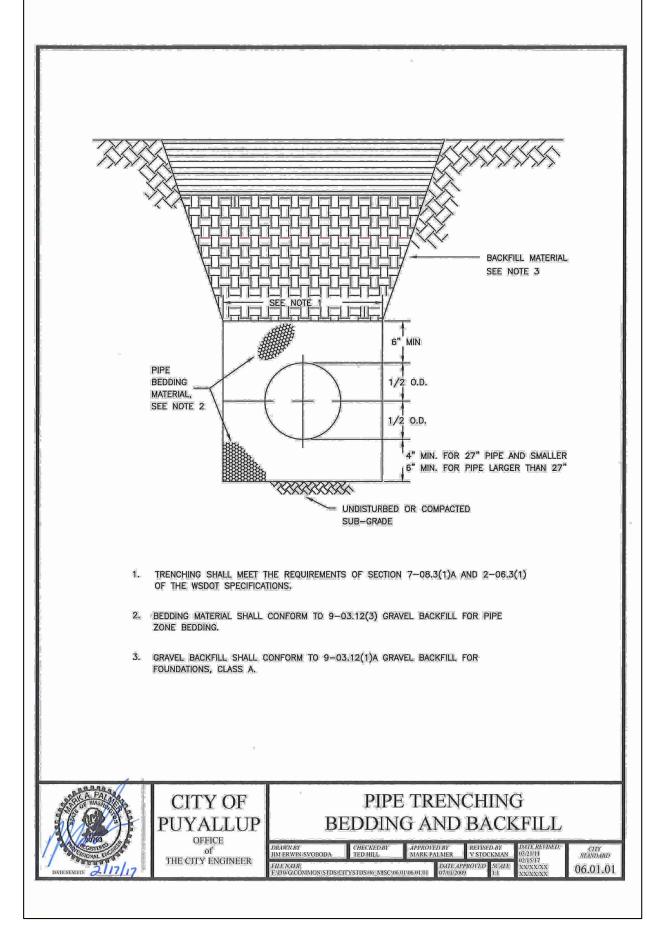
C4-103

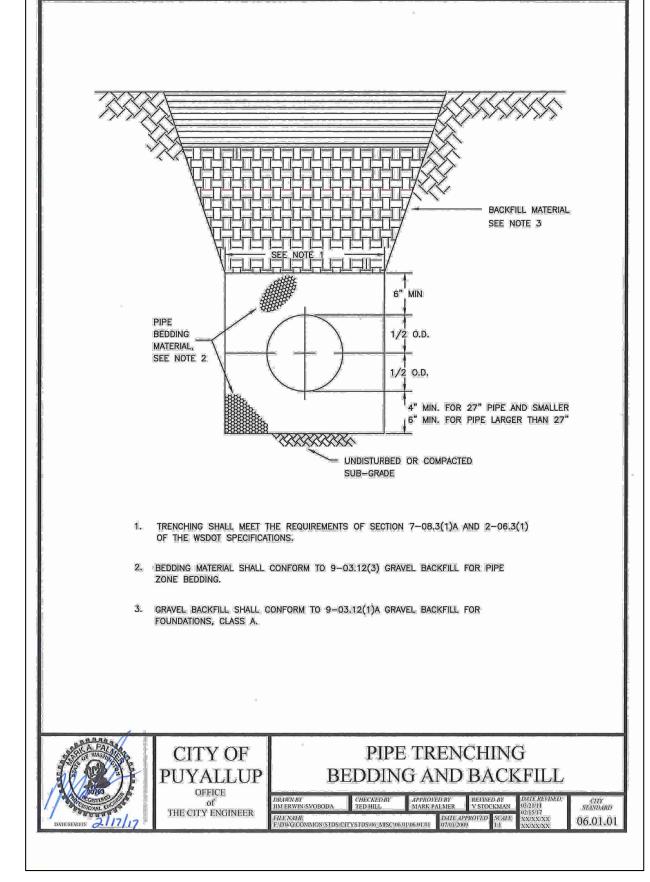
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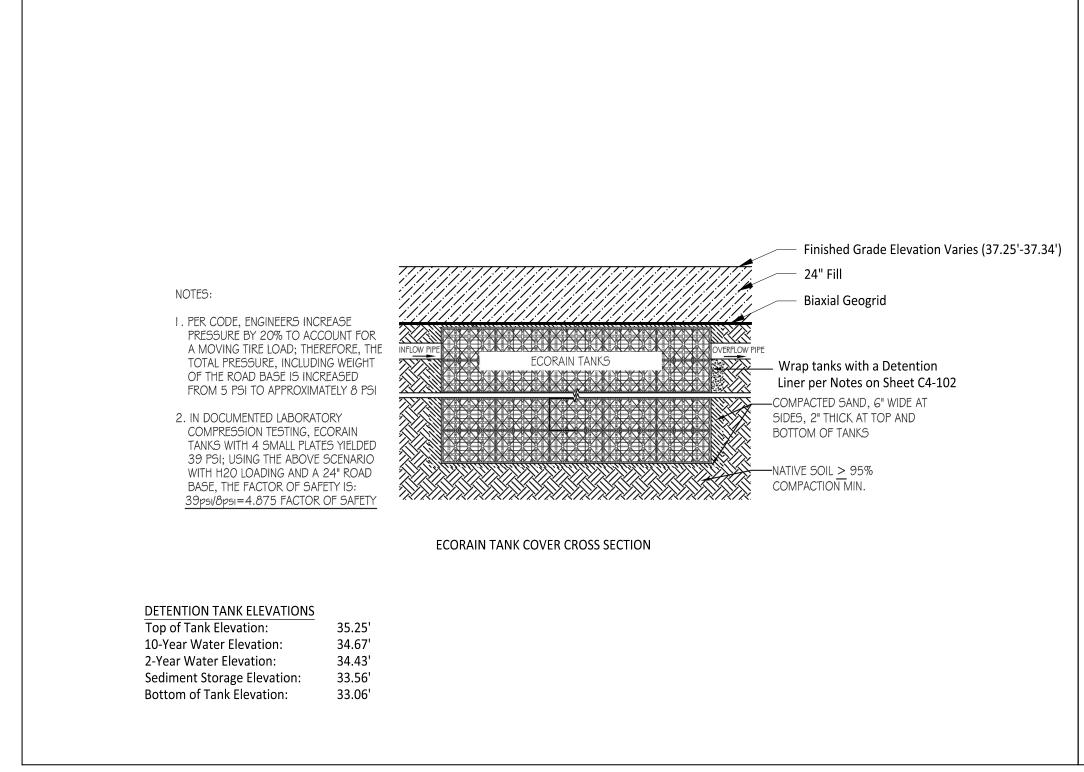


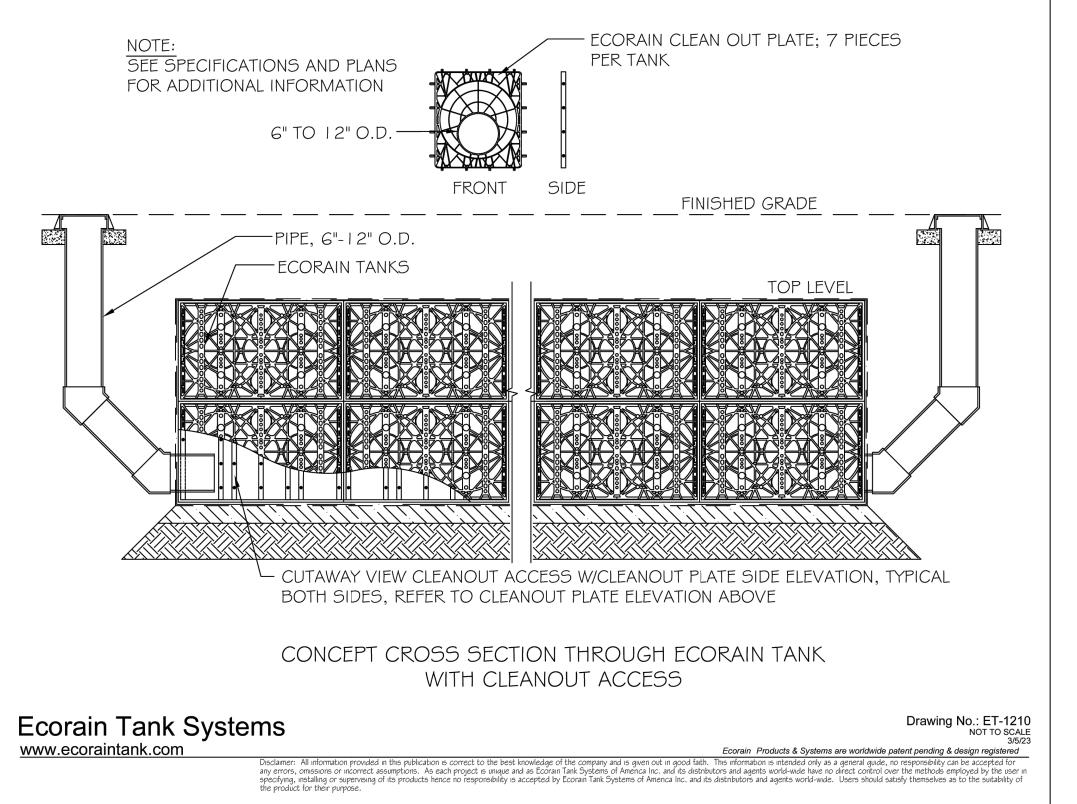


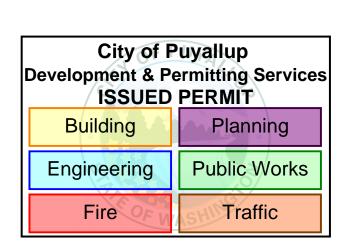


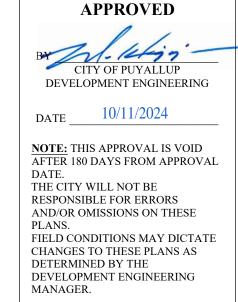












CALL TWO BUSINESS DAYS BEFORE YOU DIG -800 - 424 - 5555UTILITIES UNDERGROUND LOCATION CENTER

Washington **STATE FAIR PUYALLUP**

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

Owner/Developer:

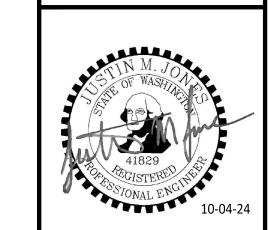
Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown

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

Washington State Fair International Village Redevelopment

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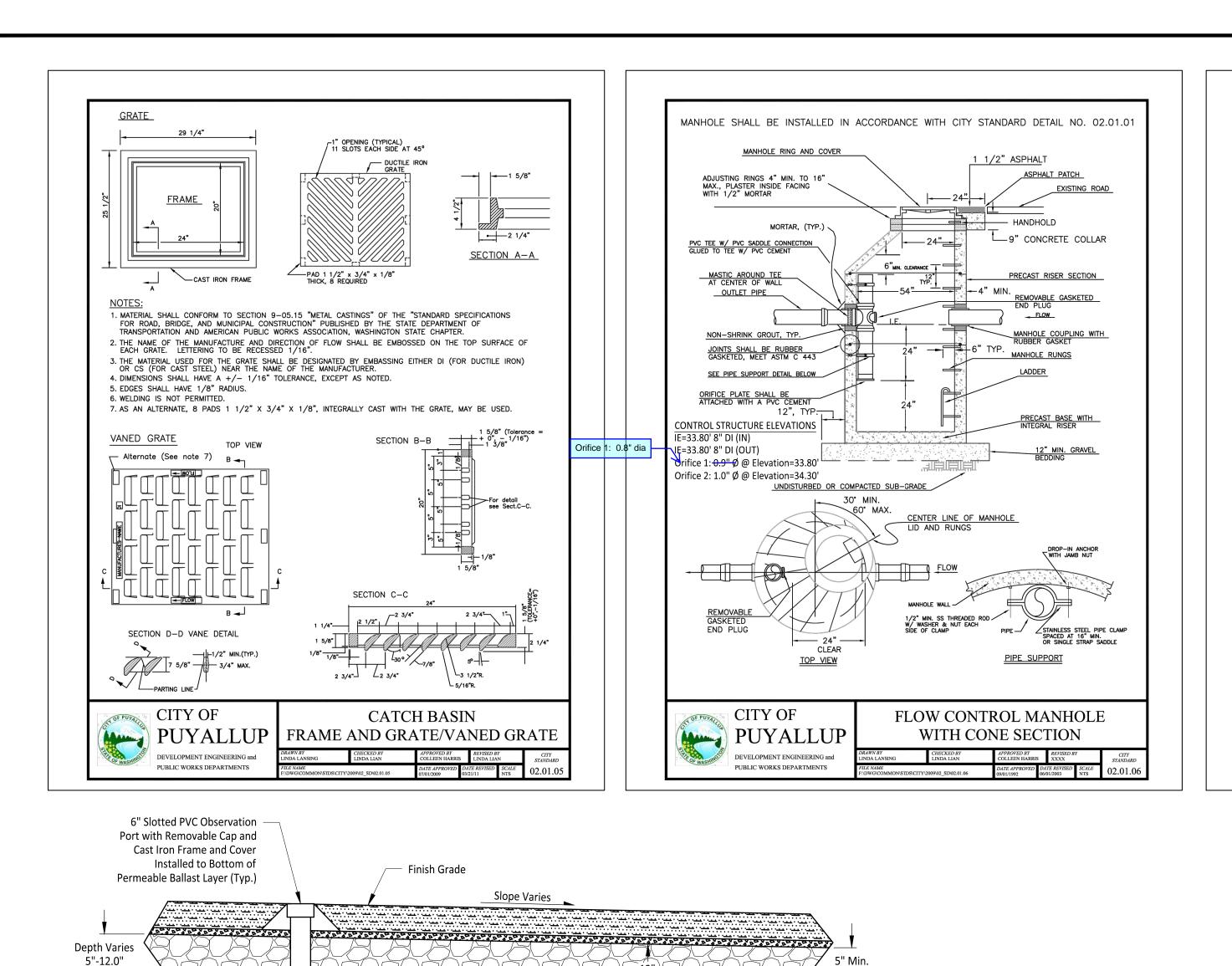
Civil Construction Permit



REV DATE DESCRIPTION 09-20-24 City Comment Cycle #1 2 10-04-24 City Comment Cycle #2 DRAWN BY: DESIGN BY: MO 1507-014 October 4, 2024 SHEET NAME Stormwater

C4-201

Details

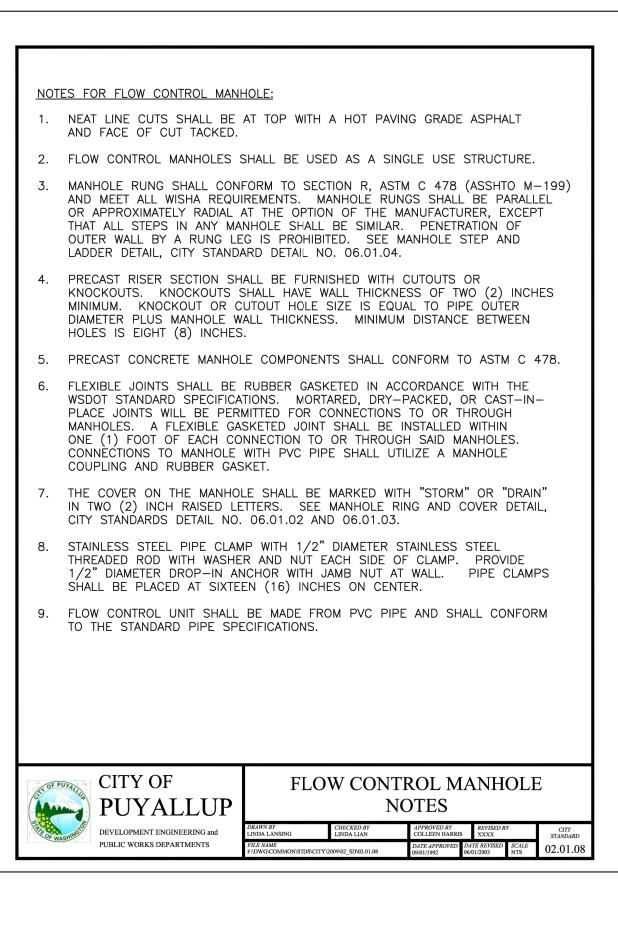


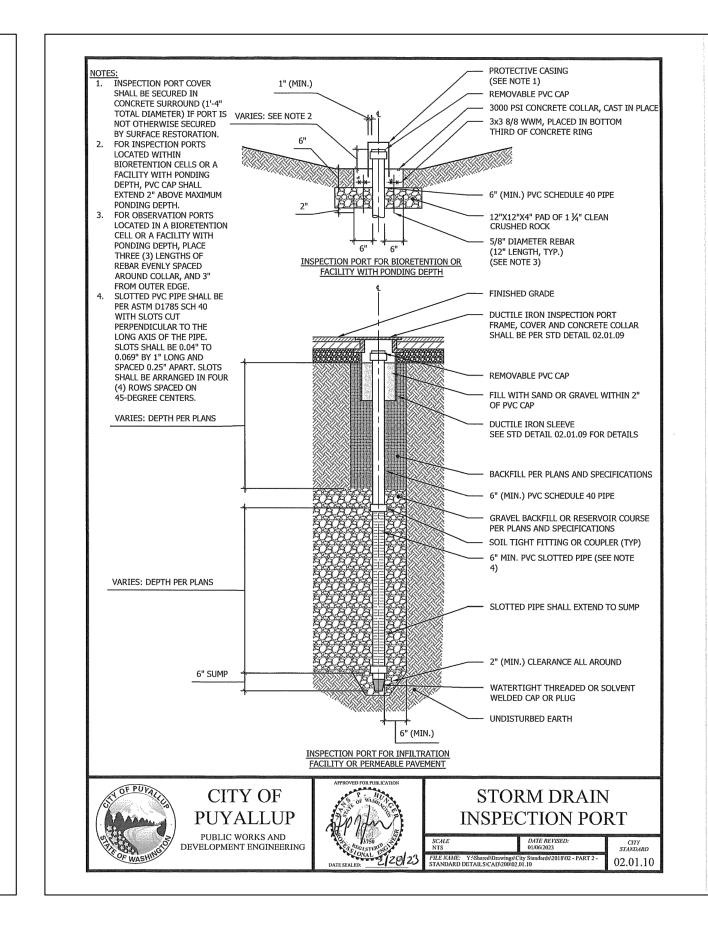
6" Slotted PVC Pipe, S=0.0%

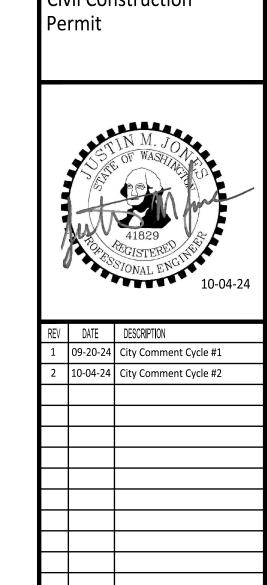
Lowest FG = 37.00'

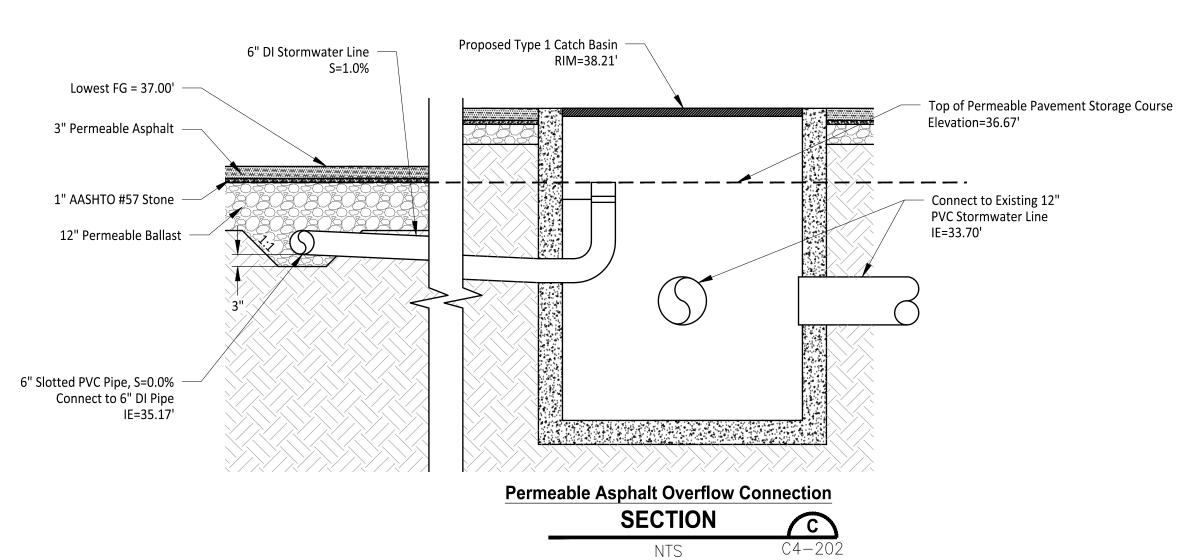
IE=35.17'

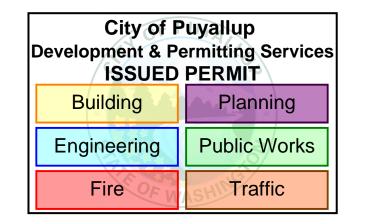
Crown to be Placed 12" Below Top of Permeable Ballast











THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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Washington State Fair International Village Redevelopment

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Civil Construction

DRAWN BY: DESIGN BY: МО 1507-014 October 4, 2024 SHEET NAME Stormwater Details

C4-202

____23___ 0F ___39

Permeable Asphalt Check Dam **SECTION**

//2.27'/

Bottom of Permeable Ballast Layer to Remain at Constant

See Storm and Grading Plan

Elevation throughout

Asphalt Section (Typ.)

Sheets for Elevations

Permeable Asphalt Pavement Underdrain

SECTION

NTS

Top of Check Dam to be Placed at Bottom of

1" #57 Stone Layer

Controlled Density Fill

Finish Grade

Bottom of

Permeable Ballast

UTILITIES UNDERGROUND LOCATION CENTER

APPROVED

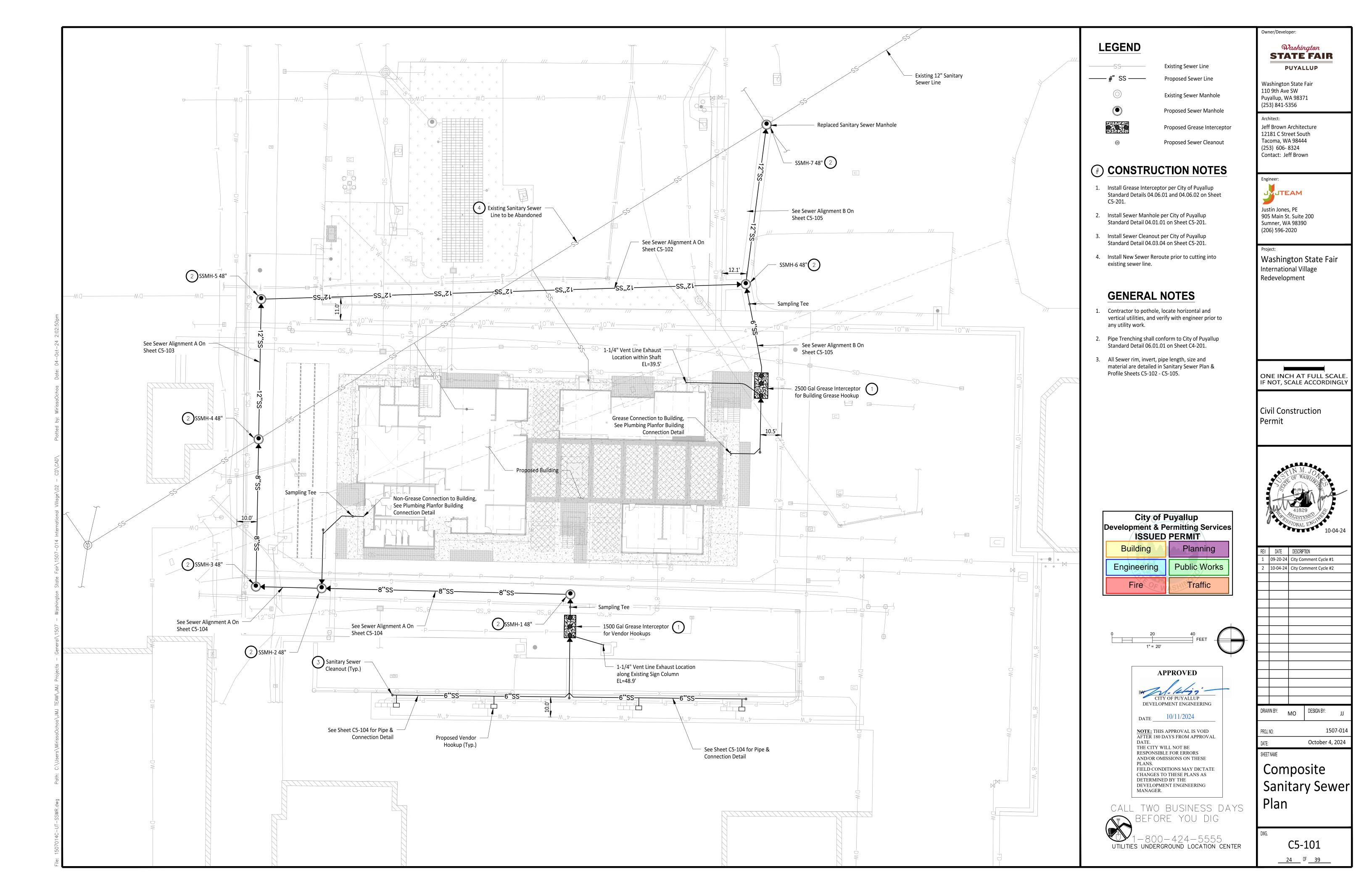
DEVELOPMENT ENGINEERING

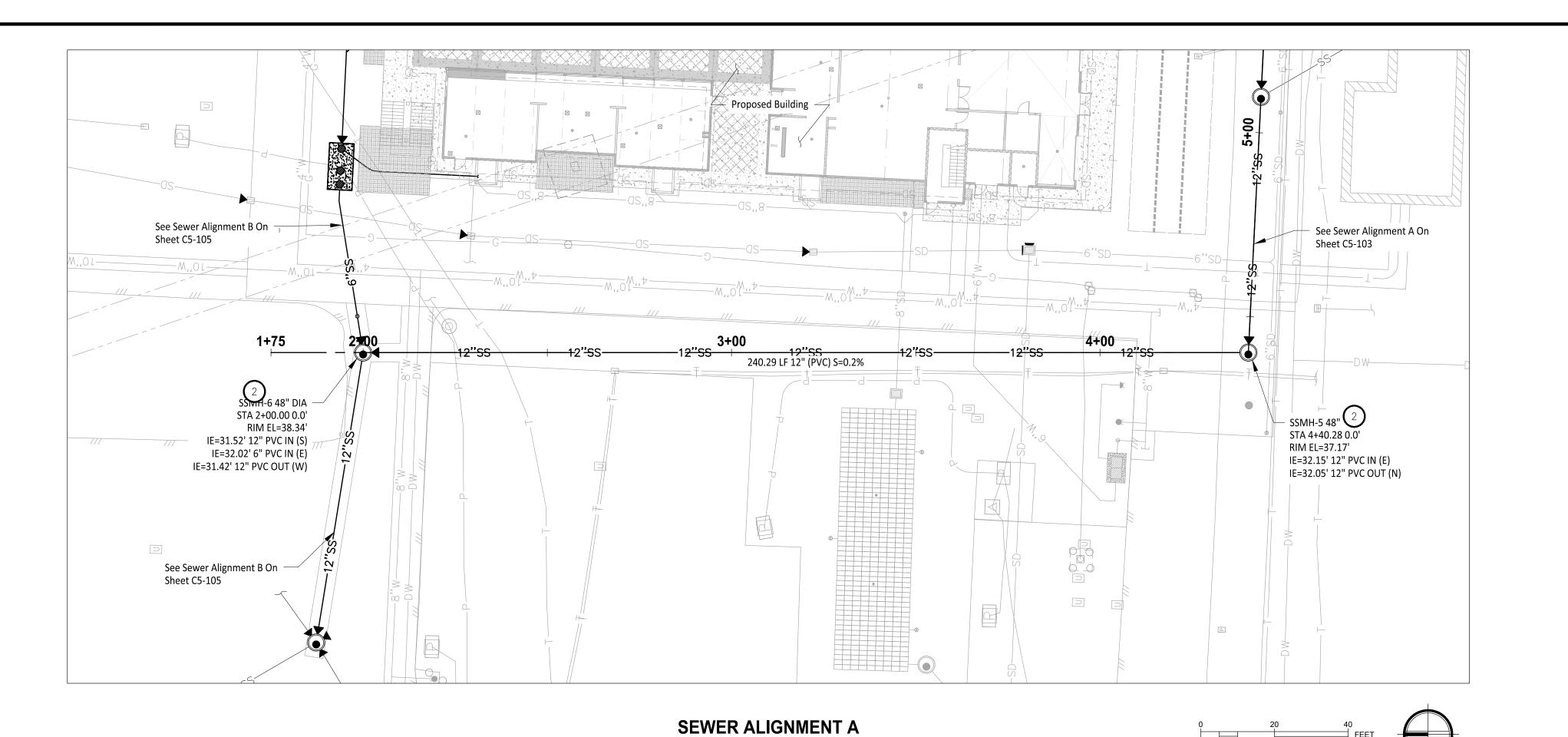
CITY OF PUYALLUP

DATE 10/11/2024

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL





 Storm Crossing IE=35.15' (8" DI) Ex. Water Crossing -Separation=2.31' IE=34.82' (4" DI) Separation=2.27' Ex. Power Crossing Water Crossing — IE=35.75' (2" PVC) Finished Grade = = IE=33.92' (6" DI) Separation=1.04' Water Crossing Water Crossing Ex. Comm. Crossing Existing Grade IE=34.16' (8" DI) IE=33.48' (8" DI) - Comm. Crossing IE=35.75' (2" PVC) at Pipe CL Separation=1.82' Separation=0.49' IE=35.76' (2" PVC) Separation=3.15' - Separation=2.86' 240.29 LF 12" (PVC) S=0.2% Ex. Power Crossing Ex. Gas Crossing IE=34.87' (2" PVC) IE=34.86' (2" PVC) Separation=1.95' Separation=1.92' Ex. Storm Crossing IE=34.37' (8" PVC) SSMH-5 -Separation=1.45' STA 4+40.28 0.0' RIM EL=37.17' IE=32.15' 12" PVC IN (E) STA 2+00.00 0.0' IE=32.05' 12" PVC OUT (N) RIM EL=38.34' IE=31.52' 12" PVC IN (S) IE=32.02' 6" PVC IN (E) IE=31.42' 12" PVC OUT (W) 36.9 1+75 2+00 3+00 4+00 4+45 Existing Grade — Finished Grade

SEWER ALIGNMENT A PROFILE HORIZ: 1"=20' VERT: 1"=5'

at Pipe CL

at Pipe CL

LEGEND

Existing Sewer Line





Existing Sewer Manhole

Proposed Sewer Manhole

Proposed Sewer Line



Proposed Grease Interceptor

Proposed Sewer Cleanout

CONSTRUCTION NOTES

- 1. Install Grease Interceptor per City of Puyallup Standard Details 04.06.01 and 04.06.02 on Sheet C5-201.
- 2. Install Sewer Manhole per City of Puyallup Standard Detail 04.01.01 on Sheet C5-201.
- 3. Install Sewer Cleanout per City of Puyallup Standard Detail 04.03.04 on Sheet C5-201.
- 4. Install New Sewer Reroute prior to cutting into existing sewer line.

GENERAL NOTES

- Contractor to pothole, locate horizontal and vertical utilities, and verify with engineer prior to any utility work.
- 2. Pipe Trenching shall conform to City of Puyallup Standard Detail 06.01.01 on Sheet C4-201.

City of Puyallup **Development & Permitting Services ISSUED PERMIT**

Planning

Public Works

Traffic

APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
DEVELOPMENT ENGINEERING

UTILITIES UNDERGROUND LOCATION CENTER

MANAGER.

BEFORE YOU DIG 1-800-424-5555

BY CITY OF PUYALLUP

DATE __ 10/11/2024

Building

Engineering

Washington STATE FAIR **PUYALLUP**

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

Owner/Developer:

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324

Contact: Jeff Brown

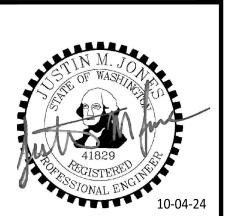


Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



REV	DATE	DESCRIPTION
1	09-20-24	City Comment Cycle #1
2	10-04-24	City Comment Cycle #2

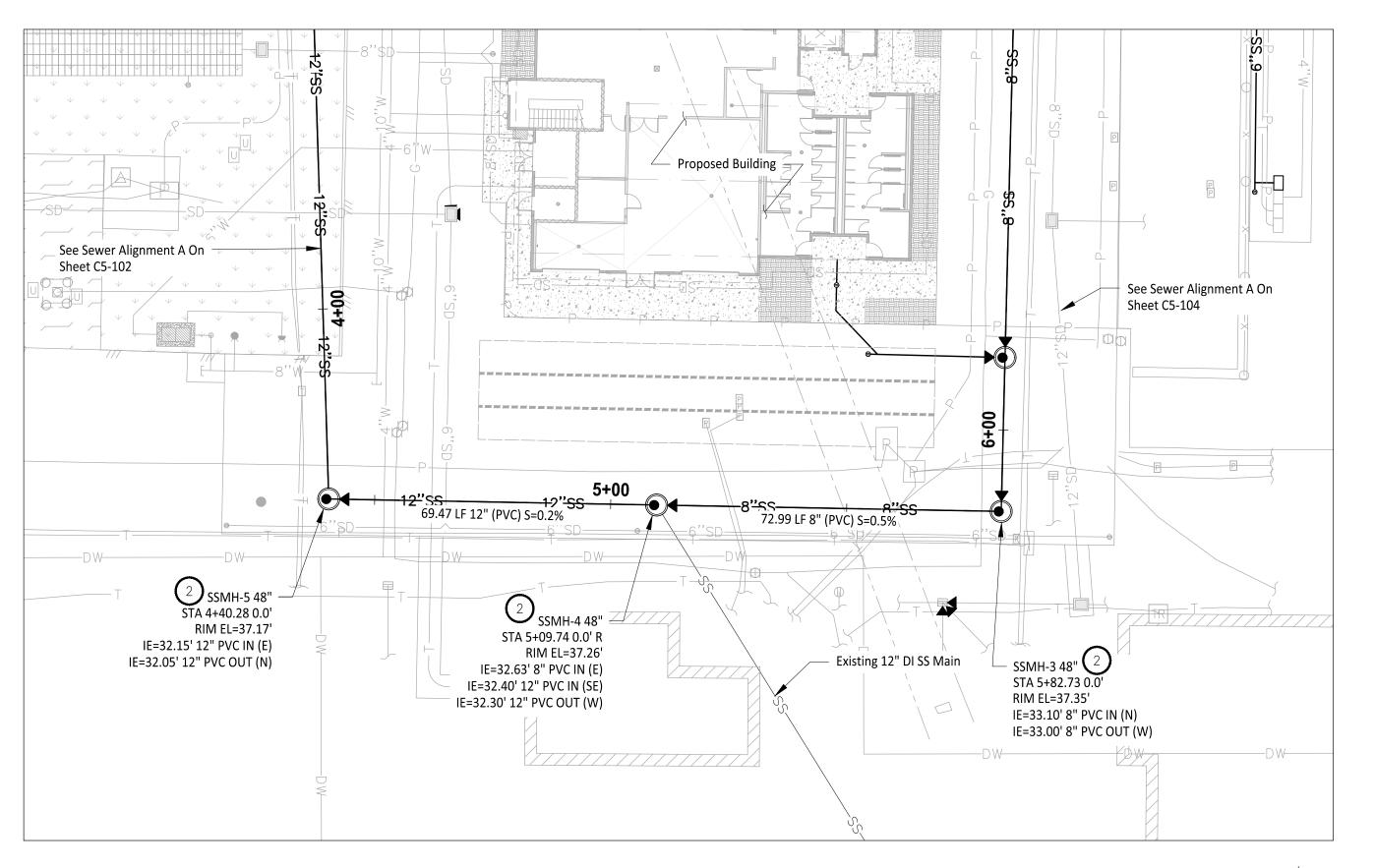
DRAWN BY: DESIGN BY: MO 1507-014 October 4, 2024

SHEET NAME Sewer Plan &

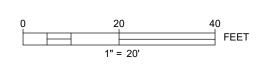
CALL TWO BUSINESS DAYS

Profile

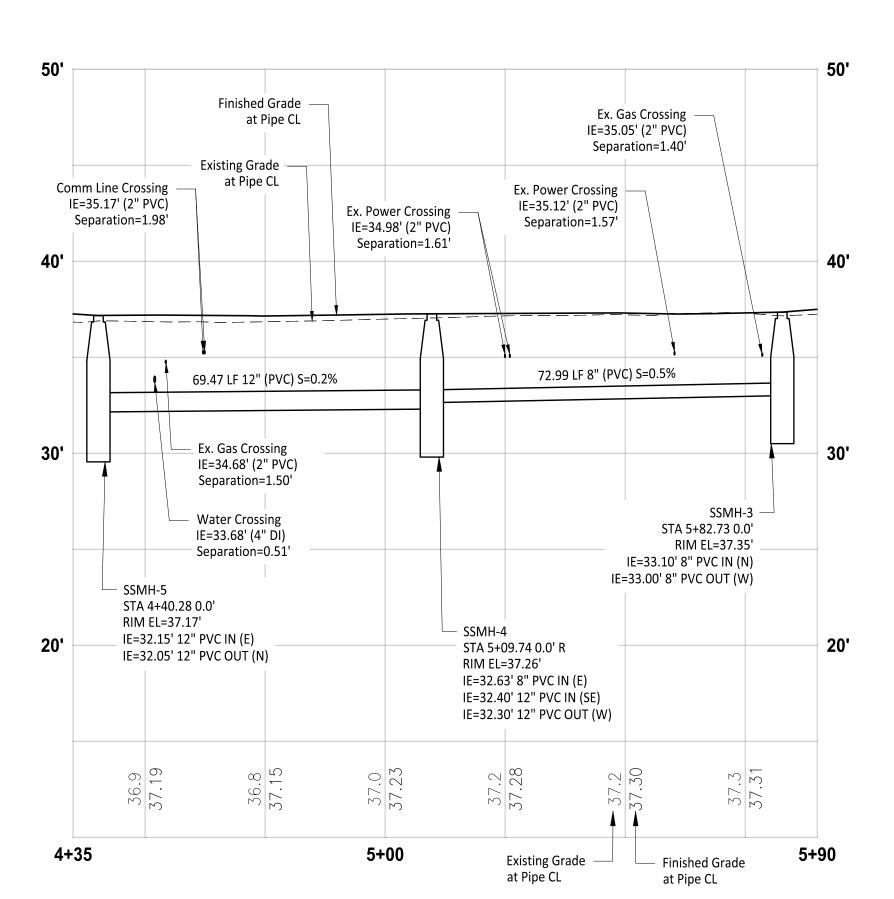
C5-102 ____25___ 0F ___39___



SEWER ALIGNMENT A







SEWER ALIGNMENT A PROFILE

> HORIZ: 1"=20' VERT: 1"=5"

LEGEND

Proposed Sewer Line

Proposed Sewer Cleanout

CONSTRUCTION NOTES

- 1. Install Grease Interceptor per City of Puyallup Standard Details 04.06.01 and 04.06.02 on Sheet
- 2. Install Sewer Manhole per City of Puyallup Standard Detail 04.01.01 on Sheet C5-201.
- 3. Install Sewer Cleanout per City of Puyallup
- existing sewer line.

- vertical utilities, and verify with engineer prior to any utility work.
- 2. Pipe Trenching shall conform to City of Puyallup Standard Detail 06.01.01 on Sheet C4-201.

ISSUED PERMIT

Planning

Traffic

APPROVED

Building

Engineering

Fire

Existing Sewer Line

Existing Sewer Manhole

Proposed Sewer Manhole

- C5-201.
- Standard Detail 04.03.04 on Sheet C5-201.
- 4. Install New Sewer Reroute prior to cutting into

GENERAL NOTES

- Contractor to pothole, locate horizontal and

Owner/Developer:

Washington State Fair 110 9th Ave SW

Puyallup, WA 98371

Jeff Brown Architecture 12181 C Street South

Tacoma, WA 98444

Contact: Jeff Brown

JMJTEAM

Justin Jones, PE

905 Main St. Suite 200

Washington State Fair

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction

Permit

International Village Redevelopment

Sumner, WA 98390 (206) 596-2020

(253) 606-8324

(253) 841-5356

Architect:

Washington STATE FAIR

PUYALLUP

41829 OPERISTERED HER 10-04-24 REV DATE DESCRIPTION . 09-20-24 City Comment Cycle #1 2 10-04-24 City Comment Cycle #2 City of Puyallup

Development & Permitting Services Public Works

DESIGN BY:

1507-014

October 4, 2024

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Sewer Plan &

C5-103

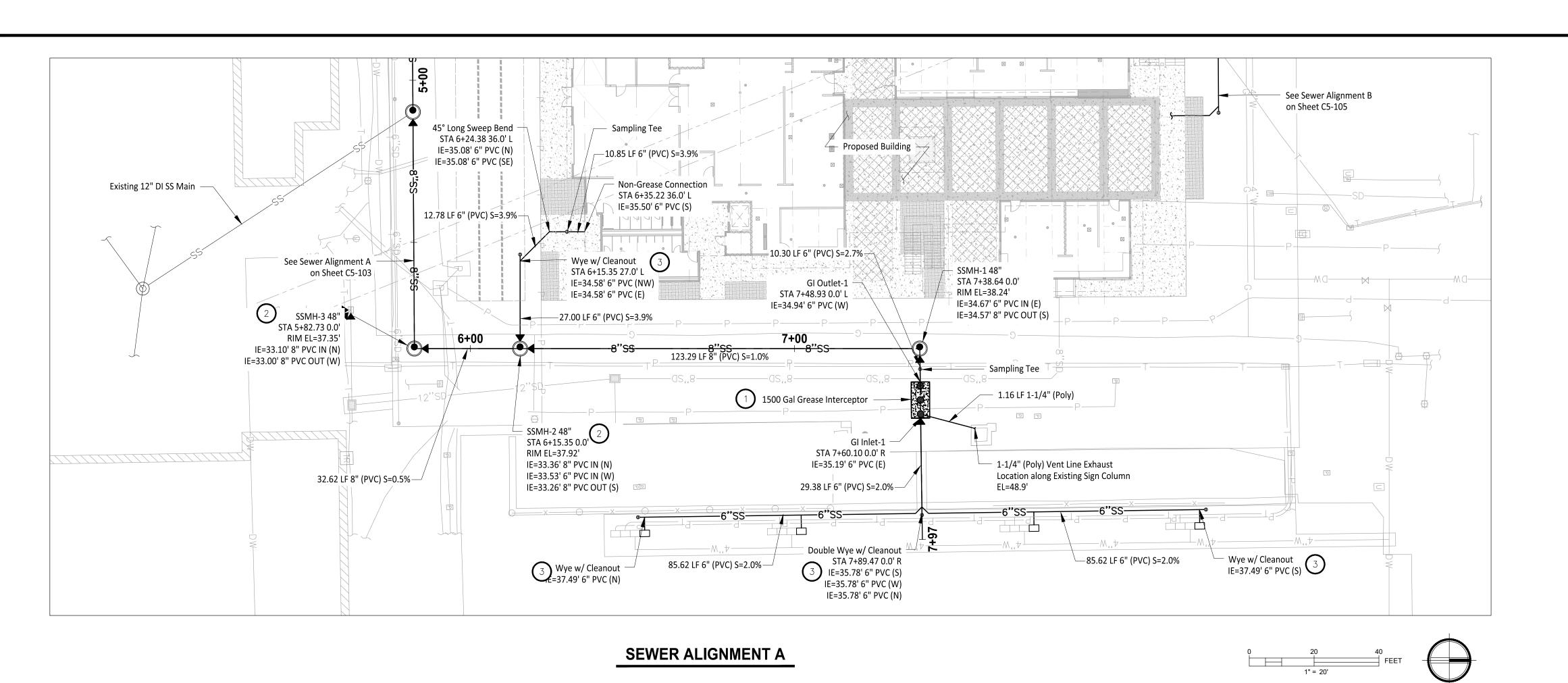
Profile

BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING DRAWN BY: DATE __ 10/11/2024 **NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE SHEET NAME

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

FIELD CONDITIONS MAY DICTATE



50' 50' Ex. Power Crossing 29.38 LF 6" (PVC) S=2.0%— IE=35.09' (2" PVC) Separation=1.28' Finished Grade Double Wye w/ Cleanout at Pipe CL IE=35.78' 6" PVC (S) Ex. Power Crossing _ Rim EL=38.33' . IE=35.78' 6" PVC (W) IE=35.10' (2" PVC) IE=35.78' 6" PVC (N) Separation=1.28' Storm Crossing — Rim EL=38.44¹ Existing Grade IE=36.08' (8" DI) at Pipe CL Ex. Telecom Crossing Ex. Telecom Crossing Separation=0.67 IE=35.12' (2" PVC) IE=35.47' (2" PVC) Rim EL=38.55' Separation=1.40' Separation=1.28' -10.30 LF 6" (PVC) S=2.7%= 123.29 LF 8" (PVC) S=1.0% 30' GI Inlet-1 / 1500 Gal Grease IE=35.19' 6" PVC (E) SSMH-2 SSMH-1 STA 6+15.35 0.0' STA 7+38.64 0.0' RIM EL=37.92' RIM EL=38.24' IE=33.36' 8" PVC IN (N) IE=34.67' 6" PVC IN (E) IE=33.53' 6" PVC IN (W) IE=34.57' 8" PVC OUT (S) IE=33.26' 8" PVC OUT (S) —32.62 LF 8" (PVC) S=0.5% 20' 20' GI Outlet-1 SSMH-3 IE=34.94' 6" PVC (W) STA 5+82.73 0.0' RIM EL=37.35' IE=33.10' 8" PVC IN (N) IE=33.00' 8" PVC OUT (W) 4. 5 7. 38.0 37. 38. 37 6+00 8+00 5+80 7+00 Existing Grade Finished Grade

> **SEWER ALIGNMENT A PROFILE**

at Pipe CL

at Pipe CL

HORIZ: 1"=20' VERT: 1"=5'

LEGEND

Existing Sewer Line



Existing Sewer Manhole

Proposed Sewer Line



Proposed Sewer Manhole

Proposed Sewer Cleanout

Proposed Grease Interceptor

(#) CONSTRUCTION NOTES

- 1. Install Grease Interceptor per City of Puyallup Standard Details 04.06.01 and 04.06.02 on Sheet C5-201.
- 2. Install Sewer Manhole per City of Puyallup Standard Detail 04.01.01 on Sheet C5-201.
- 3. Install Sewer Cleanout per City of Puyallup Standard Detail 04.03.04 on Sheet C5-201.
- 4. Install New Sewer Reroute prior to cutting into existing sewer line.

GENERAL NOTES

- Contractor to pothole, locate horizontal and vertical utilities, and verify with engineer prior to any utility work.
- 2. Pipe Trenching shall conform to City of Puyallup Standard Detail 06.01.01 on Sheet C4-201.

Washington STATE FAIR

PUYALLUP

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

Owner/Developer:

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324

Contact: Jeff Brown



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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



				REV	DATE	DESCRIPTION
				1	09-20-24	City Comment Cycle #1
Г			٦	2	10-04-24	City Comment Cycle #2
	City of P					
ļ!	Development & Pe		5			
	ISSUED	PERMIT\				
	Building	Planning				
	Engineering Public Works					
	21191110011119	T dibility rome				
	Fire	Traffic				

DRAWN BY:

SHEET NAME

MO



Traffic

Fire

AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE 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

Sewer Plan & Profile

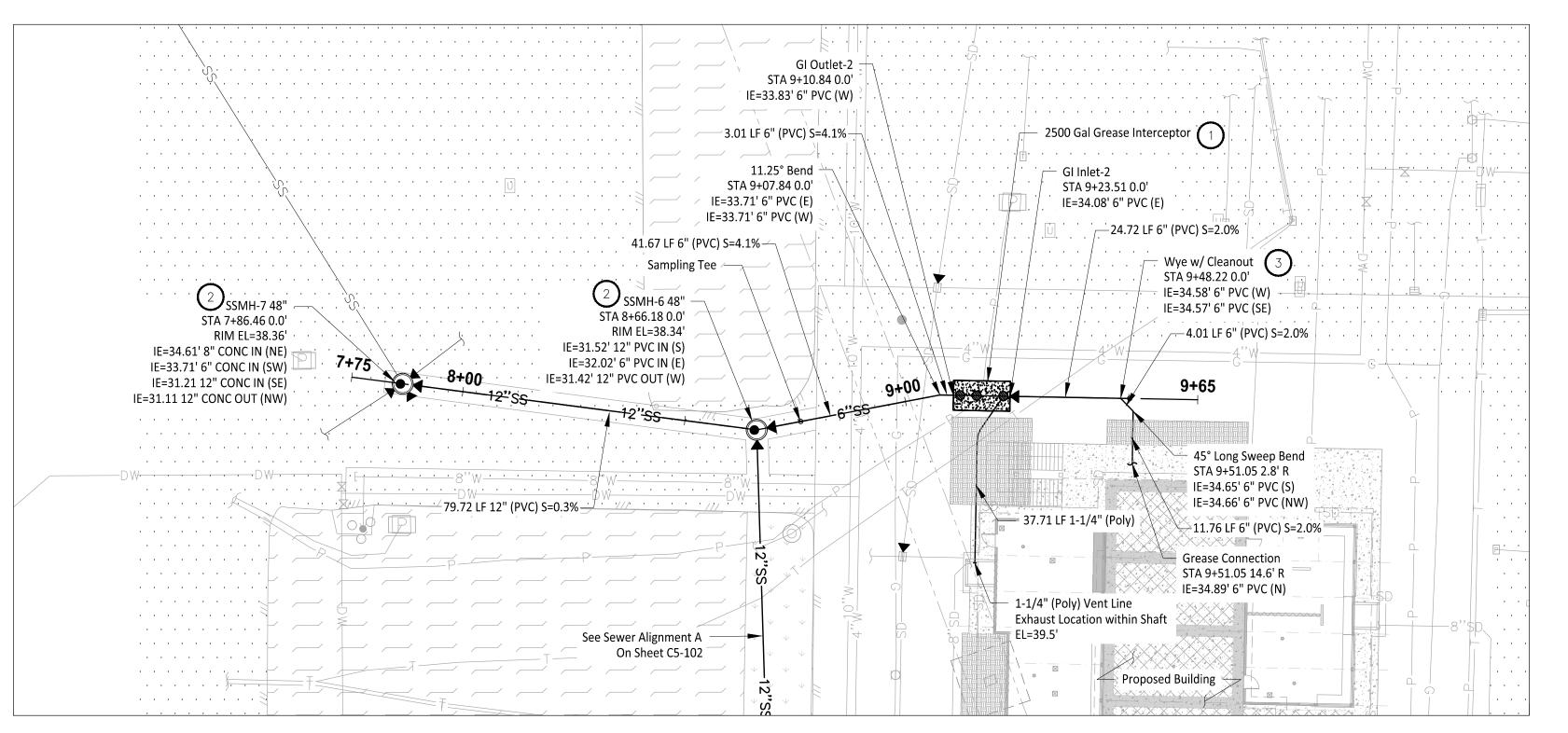
DESIGN BY:

1507-014

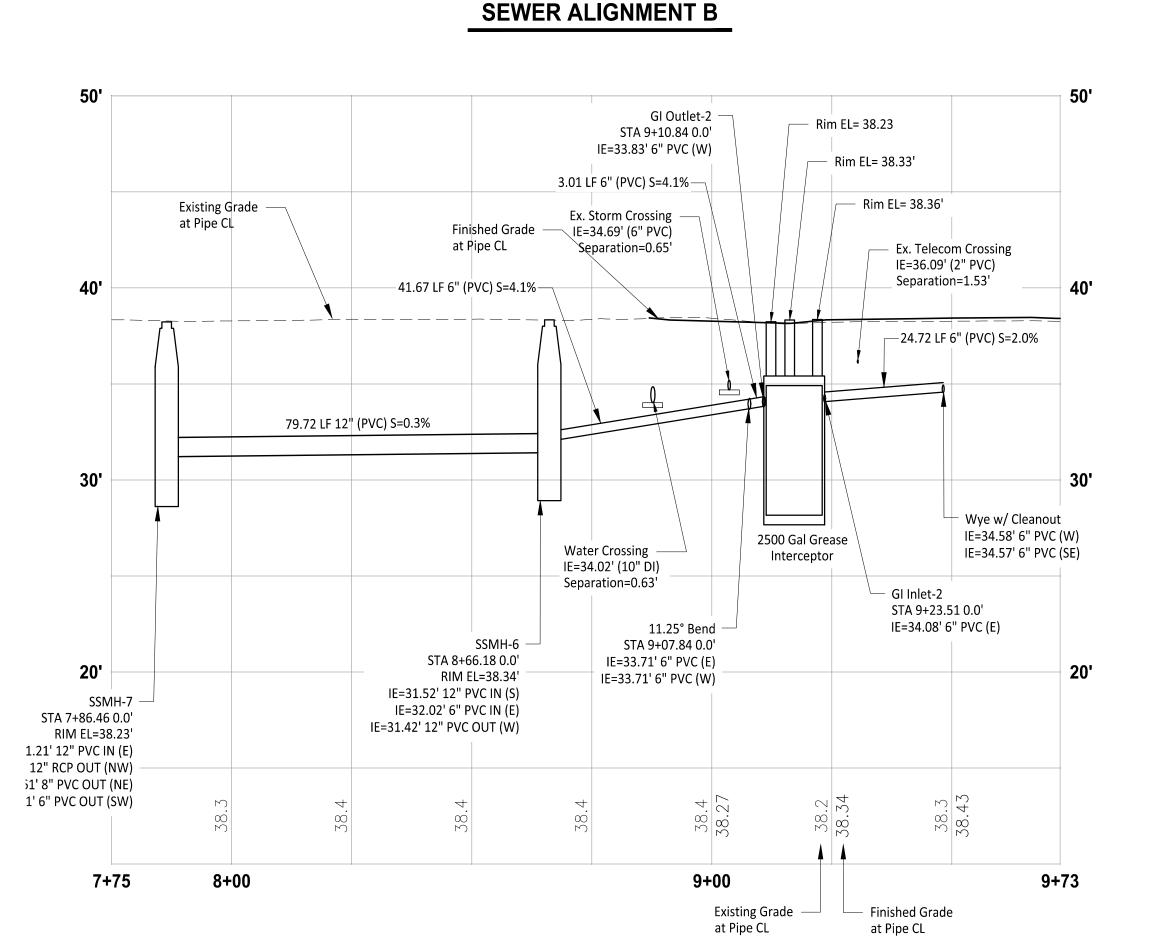
October 4, 2024

C5-104

_____27___ 0F ____39____



20 40 1" = 20'



SEWER ALIGNMENT B
PROFILE

HORIZ: 1"=20' VERT: 1"=5'

LEGEND

Existing Sewer Line



Existing Sower Manho

Proposed Sewer Line

Proposed Sewer Manhole

Proposed Grease Interceptor



Existing Sewer Manhole



Proposed Sewer Cleanout

(#) CONSTRUCTION NOTES

- 1. Install Grease Interceptor per City of Puyallup Standard Details 04.06.01 and 04.06.02 on Sheet C5-201.
- 2. Install Sewer Manhole per City of Puyallup Standard Detail 04.01.01 on Sheet C5-201.
- 3. Install Sewer Cleanout per City of Puyallup Standard Detail 04.03.04 on Sheet C5-201.
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GENERAL NOTES

- Contractor to pothole, locate horizontal and vertical utilities, and verify with engineer prior to any utility work.
- 2. Pipe Trenching shall conform to City of Puyallup Standard Detail 06.01.01 on Sheet C4-201.

Owner/Developer:



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

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444

Contact: Jeff Brown
Engineer:

(253) 606-8324

Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390

oject:

(206) 596-2020

Washington State Fair
International Village
Redevelopment

ONE INCH AT FULL SCALE.
IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



REV	DATE	DESCRIPTION
1	09-20-24	City Comment Cycle #1
2	10-04-24	City Comment Cycle #2

DRAWN BY: MO DESIGN BY: JJ

PROJ. NO: 1507-014

DATE: October 4, 2024
SHEET NAME

Sewer Plan & Profile

C5-105

____28___ OF __39

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

City of Puyallup

Development & Permitting Services

ISSUED PERMIT

APPROVED

DEVELOPMENT ENGINEERING

NOTE: THIS APPROVAL IS VOID

AFTER 180 DAYS FROM APPROVAL

BY CITY OF PUYALLUP

DATE __ 10/11/2024

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

DEVELOPMENT ENGINEERING

MANAGER.

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE

Planning

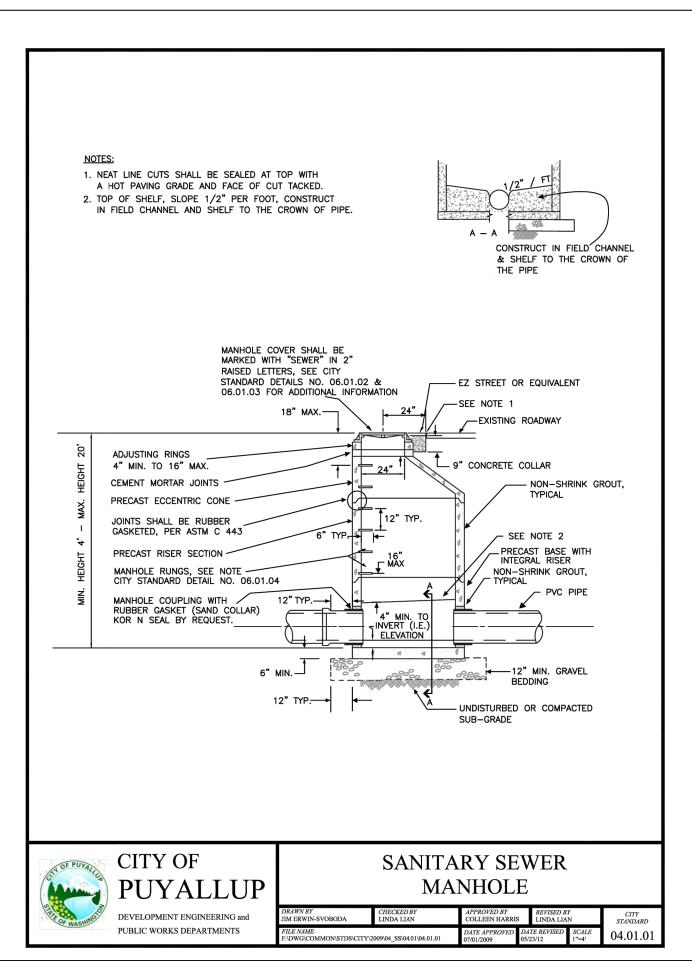
Public Works

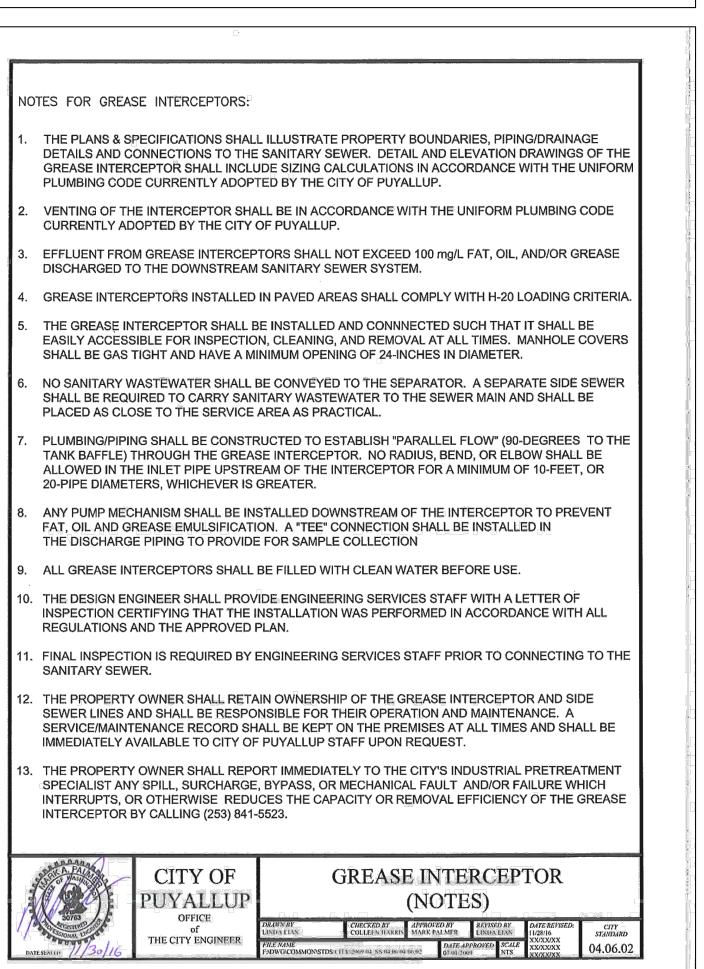
Traffic

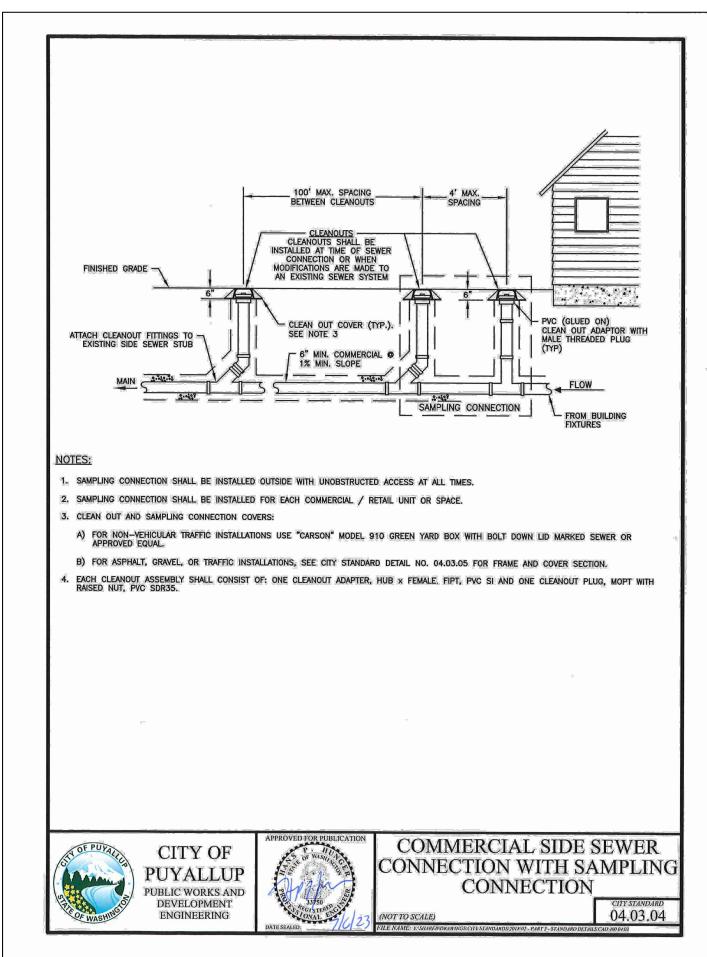
Building

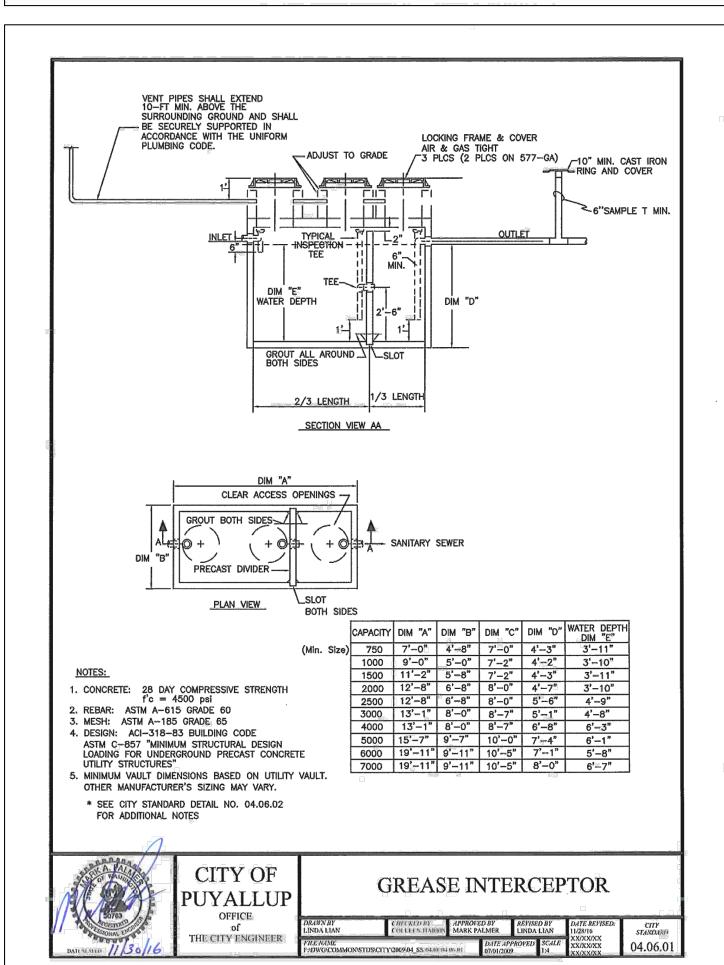
Engineering

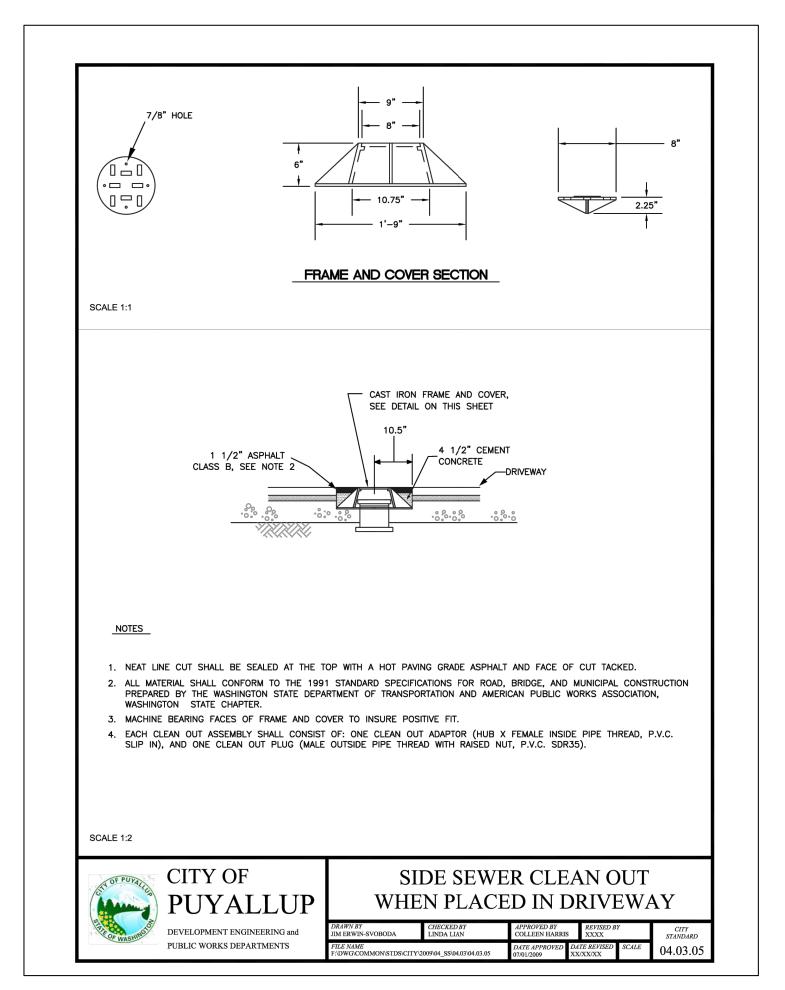
Fire

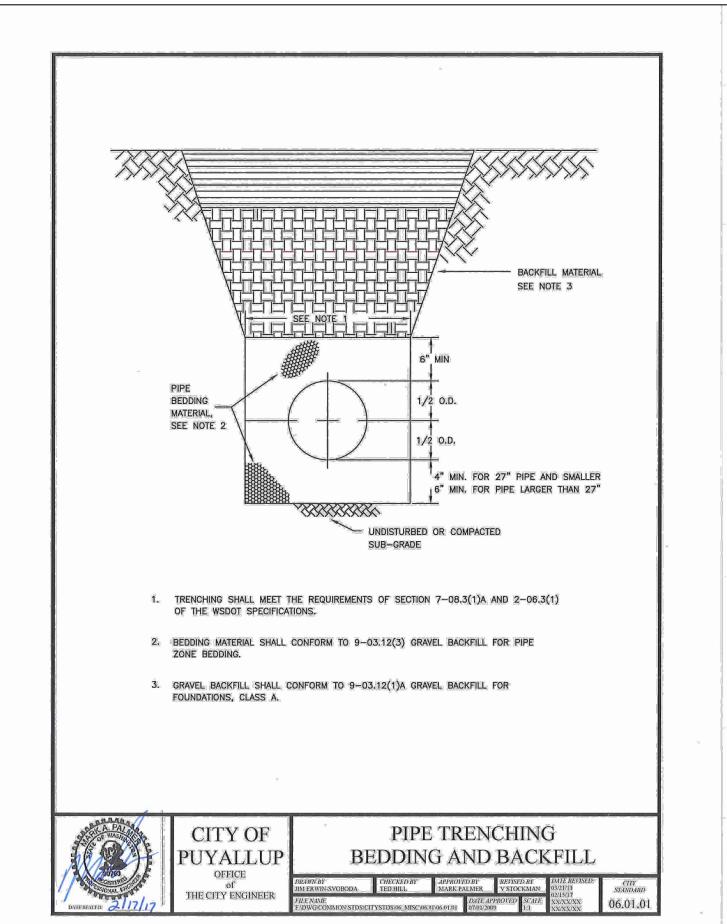














DETERMINED BY THE

MANAGER.

DEVELOPMENT ENGINEERING

CALL TWO BUSINESS DAYS

UTILITIES UNDERGROUND LOCATION CENTER



Owner/Developer:

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

Architect:
Jeff Brown Architecture
12181 C Street South
Tacoma, WA 98444



(253) 606-8324 Contact: Jeff Brown

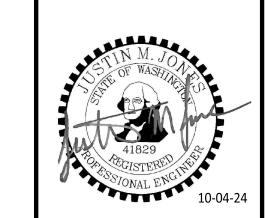
Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

oject:

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction
Permit



09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

REV DATE DESCRIPTION

DRAWN BY: MO DESIGN BY: JJ

PROJ. NO: 1507-014

DATE: October 4, 2024

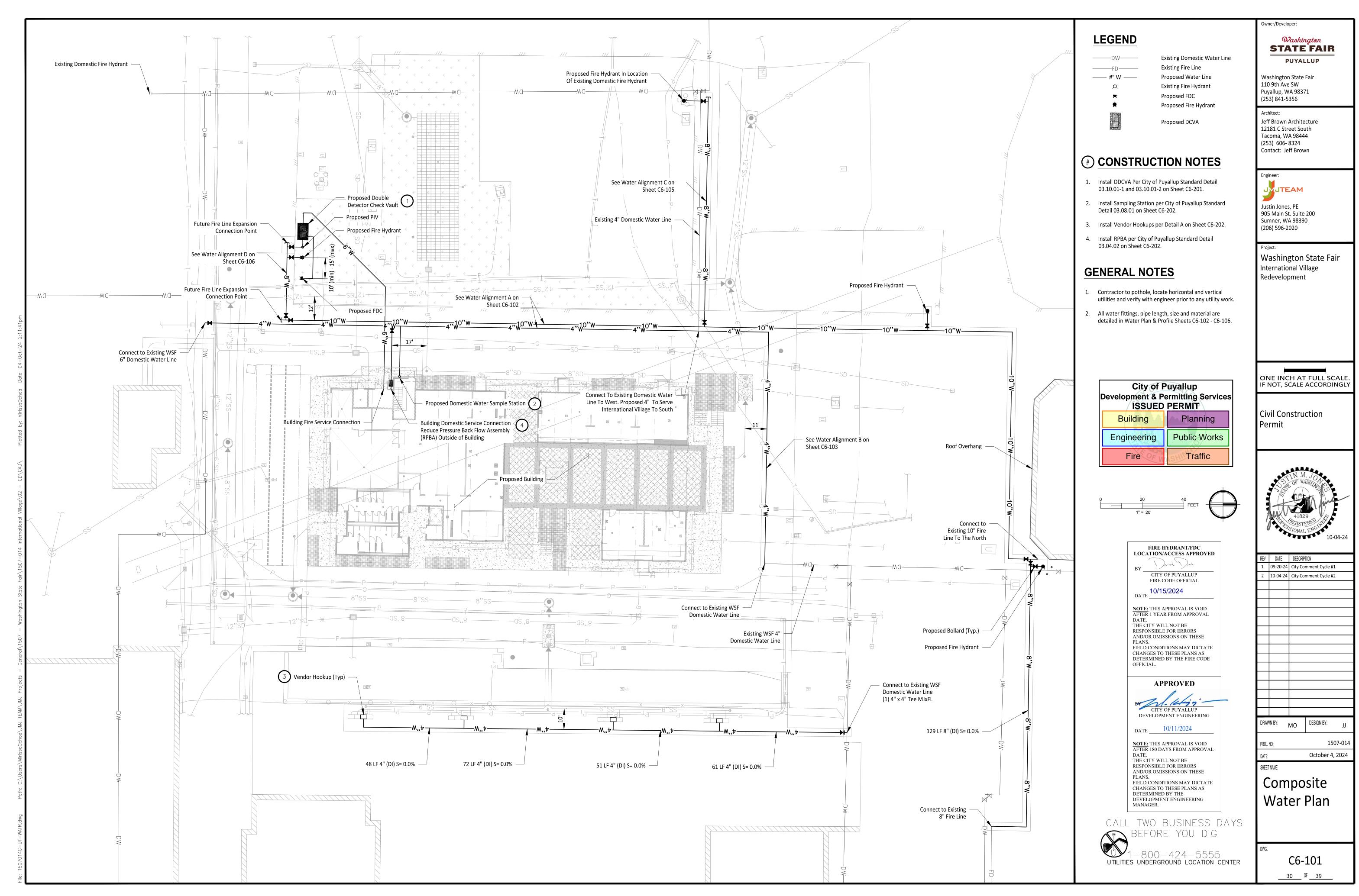
SHEET NAME

C5-201

Details

______ OF ________

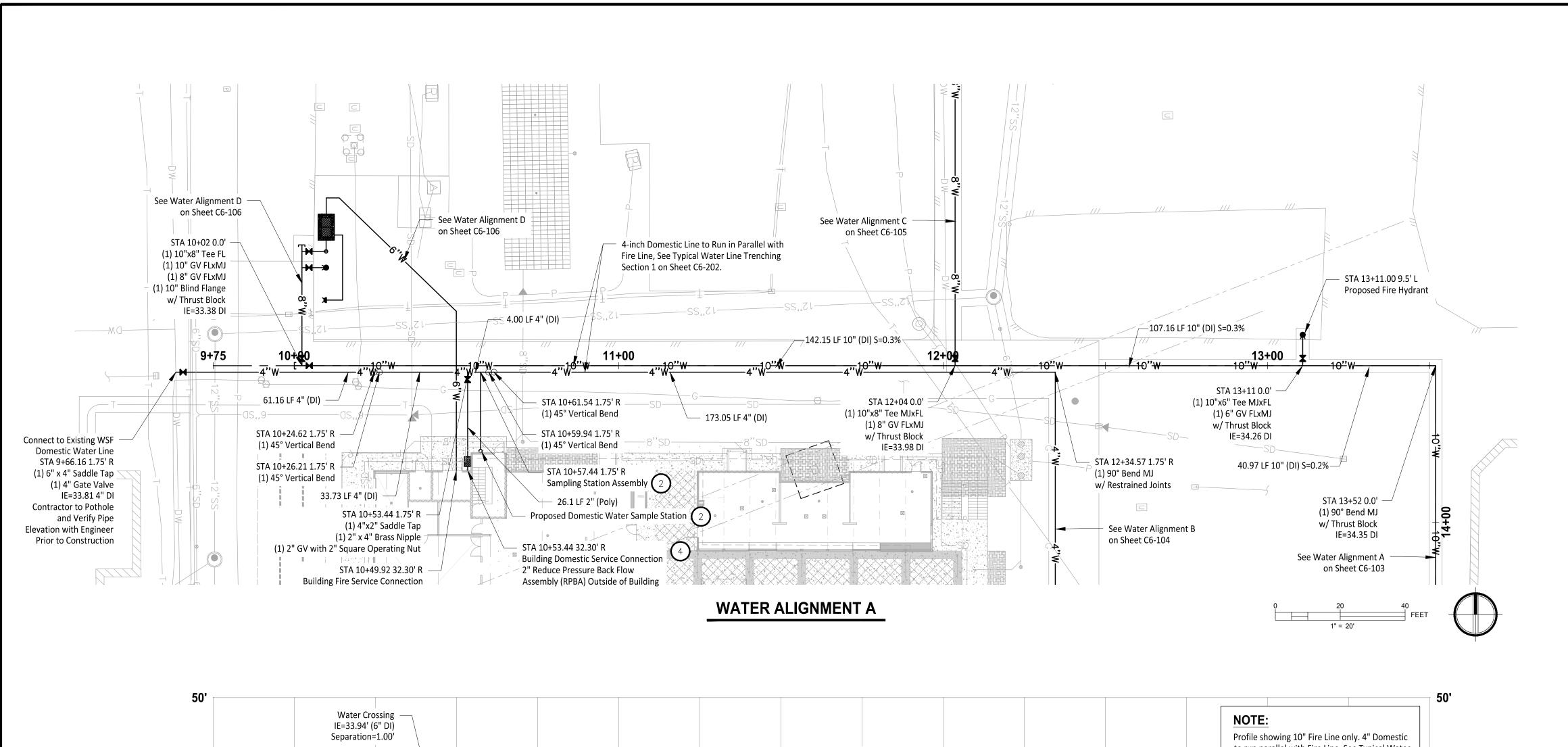
Sanitary Sewer

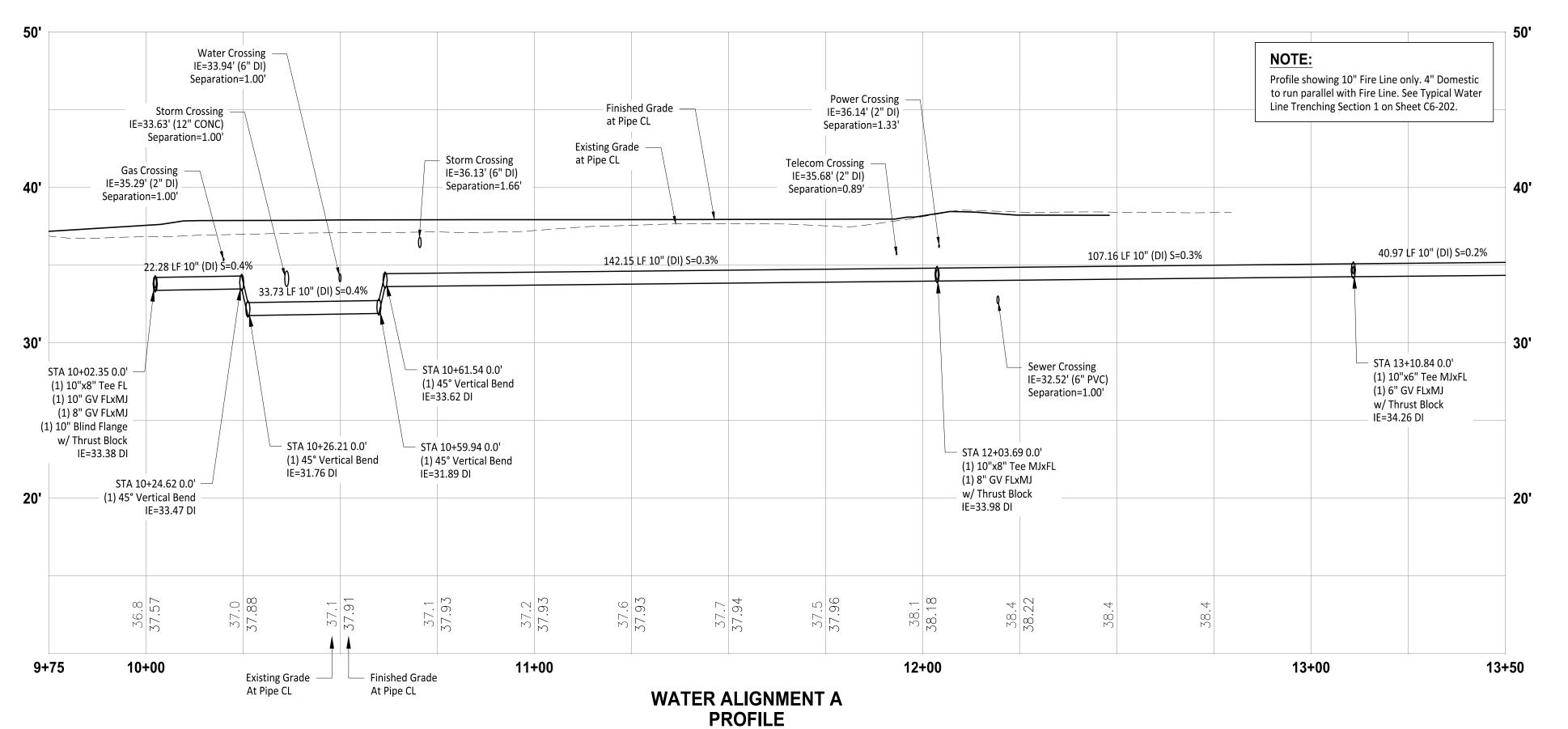




	DATE	DESCRIPTION
	09-20-24	City Comment Cycle #1
	10-04-24	City Comment Cycle #2
_		

October 4, 2024





HORIZ: 1"=20' VERT: 1"=5'

LEGEND

____DW____ Existing Domestic Water Line Existing Fire Line ——FD—— ----- #" W -----**Proposed Water Line Existing Fire Hydrant** Q Proposed FDC

Proposed Fire Hydrant

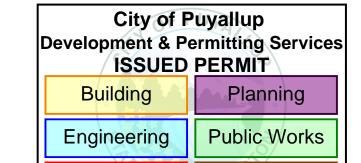
Proposed DCVA

(#) CONSTRUCTION NOTES

- Install DDCVA Per City of Puyallup Standard Detail 03.10.01-1 and 03.10.01-2 on Sheet C6-201.
- 2. Install Sampling Station per City of Puyallup Standard Detail 03.08.01 on Sheet C6-202.
- 3. Install Vendor Hookups per Detail A on Sheet C6-202.
- 4. Install RPBA per City of Puyallup Standard Detail 03.04.02 on Sheet C6-202.

GENERAL NOTES

Contractor to pothole, locate horizontal and vertical utilities and verify with engineer prior to any utility work.



Fire

Traffic

FIRE HYDRANT/FDC LOCATION/ACCESS APPROVED CITY OF PUYALLUP FIRE CODE OFFICIAL 10/15/2024

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE FIRE CODE

APPROVED

BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE ___ 10/11/2024

MANAGER.

OFFICIAL.

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

CALL TWO BUSINESS DAYS BEFORE YOU DIG 1-800-424-5555

UTILITIES UNDERGROUND LOCATION CENTER

Washington

STATE FAIR **PUYALLUP**

Owner/Developer:

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

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown



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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



REV DATE DESCRIPTION 09-20-24 City Comment Cycle #1 2 10-04-24 City Comment Cycle #2 DRAWN BY: DESIGN BY: MO

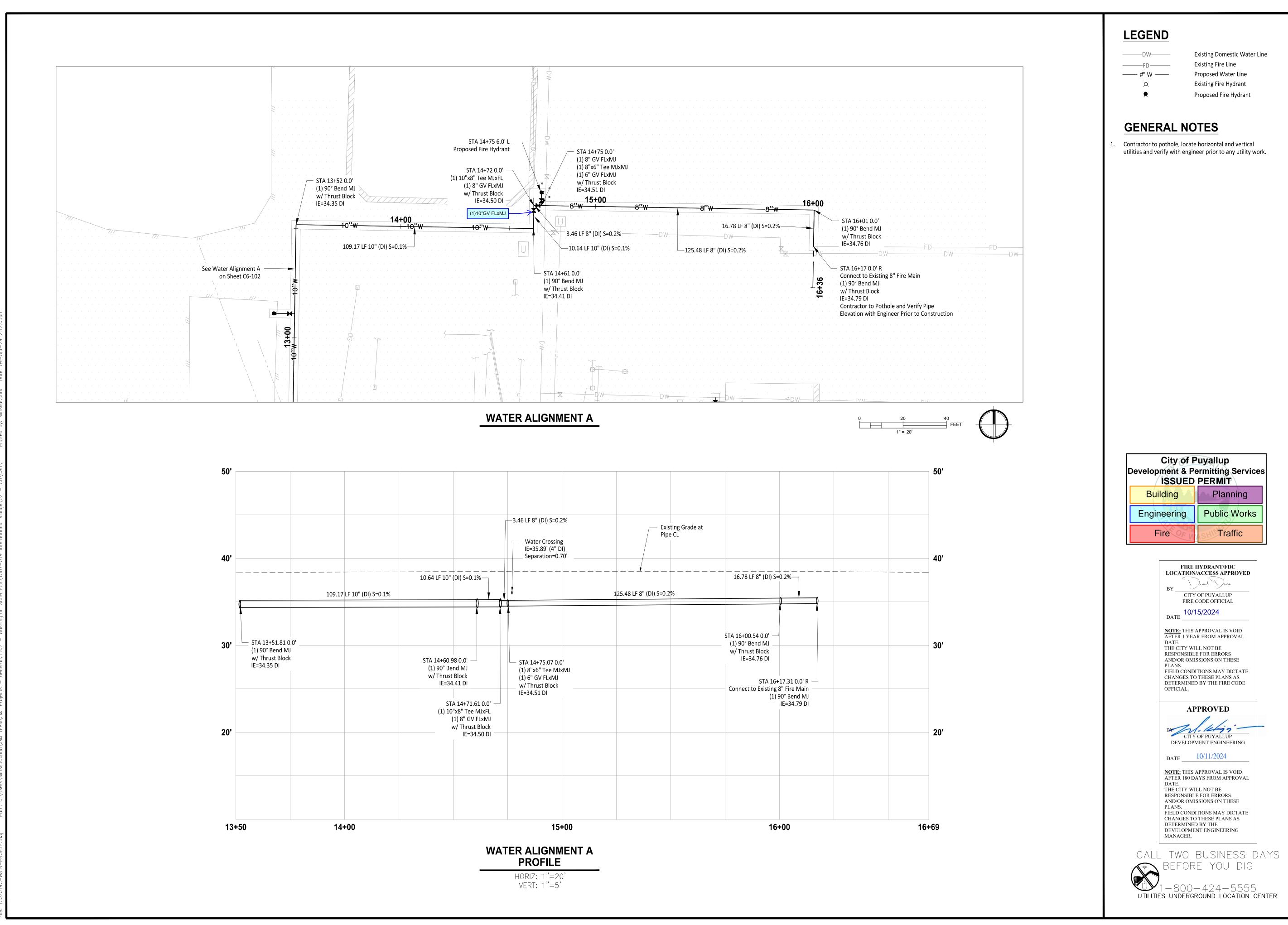
October 4, 2024 SHEET NAME

1507-014

Water Plan & Profile

C6-102

___31___ OF __39___



(253) 841-5356 Architect: Jeff Brown Architecture

Washington State Fair 110 9th Ave SW

Puyallup, WA 98371

Owner/Developer:

Washington STATE FAIR

PUYALLUP



JMJTEAM

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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



	WO TES	41829 CISTERED INCIDENCE NO. 10-04-24
/	DATE	DESCRIPTION
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09-20-24	City Comment Cycle #1
10-04-24	City Comment Cycle #2

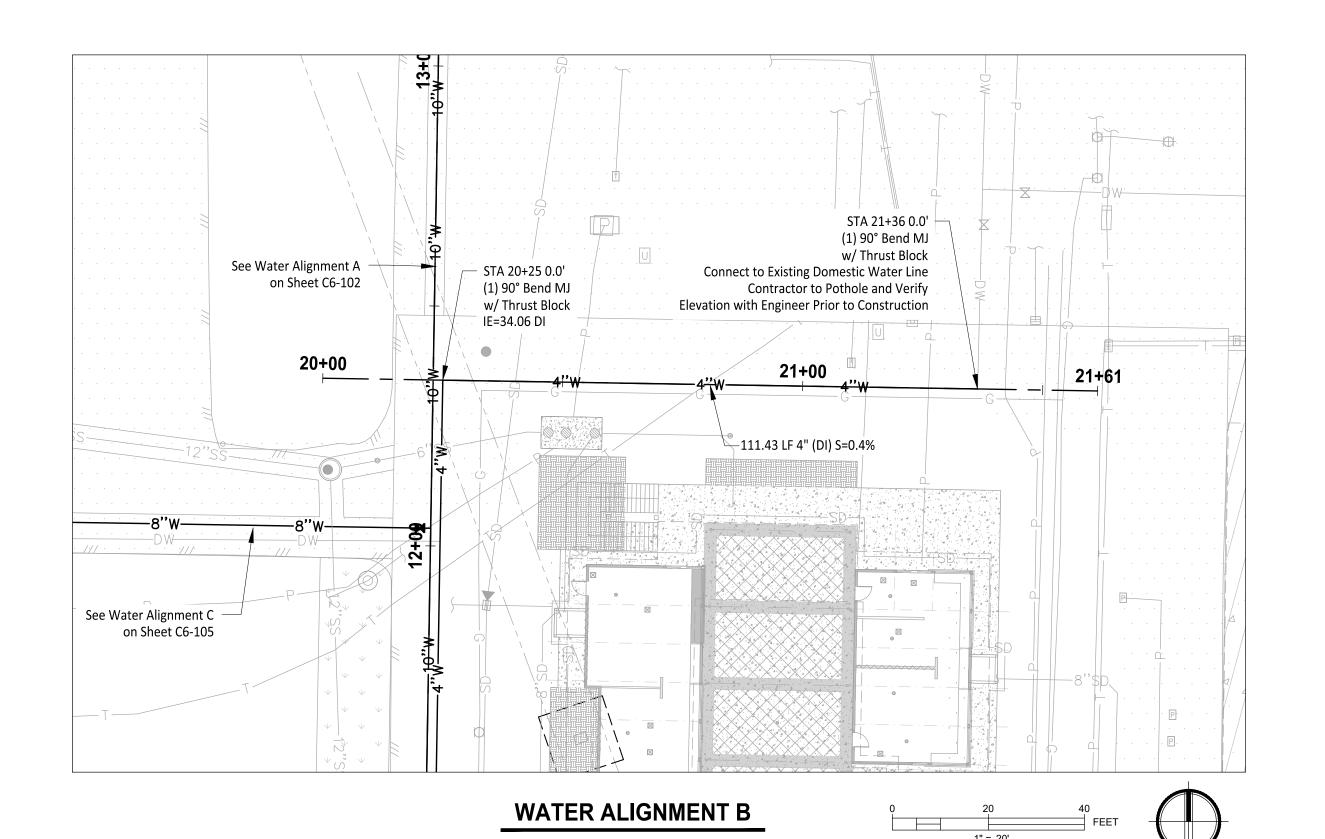
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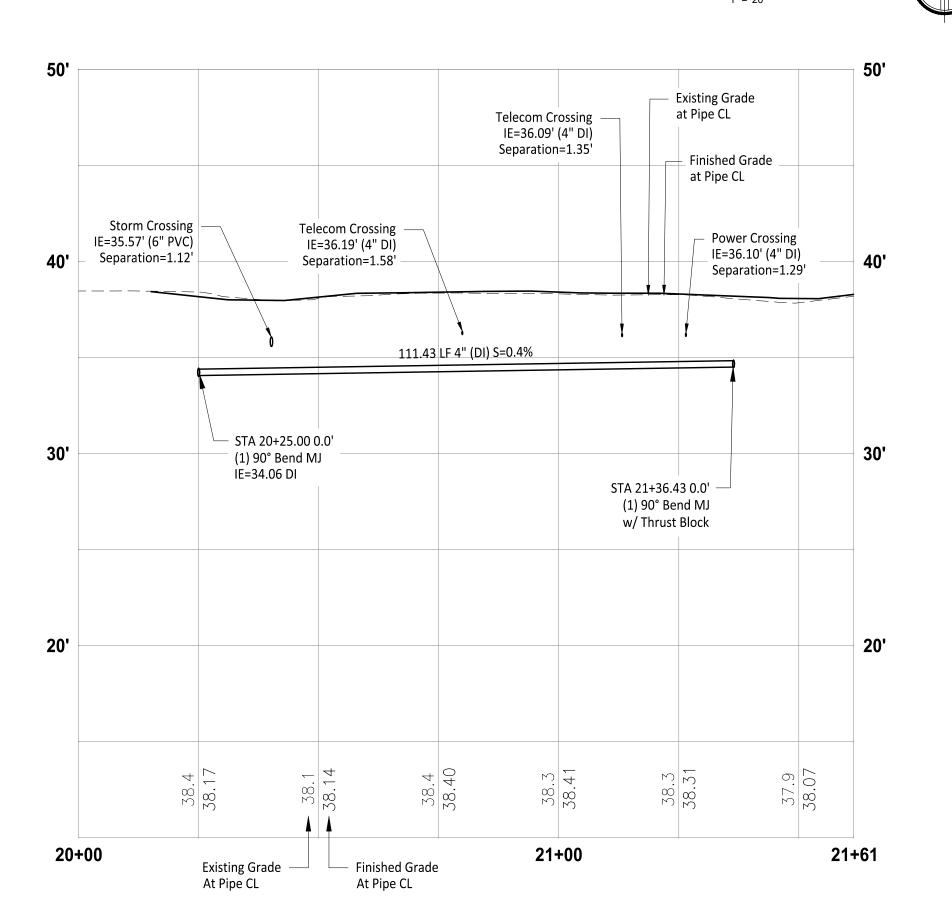
October 4, 2024 SHEET NAME

Water Plan &

Profile

C6-103





WATER ALIGNMENT B **PROFILE**

HORIZ: 1"=20' VERT: 1"=5'

LEGEND

_____DW____ ———FD——— ----- #" W -----Q

Existing Domestic Water Line Existing Fire Line Proposed Water Line

Existing Fire Hydrant Proposed Fire Hydrant

GENERAL NOTES

Contractor to pothole, locate horizontal and vertical utilities and verify with engineer prior to any utility work.

Owner/Developer:

Washington STATE FAIR **PUYALLUP**

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

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown



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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction Permit

REV DATE DESCRIPTION

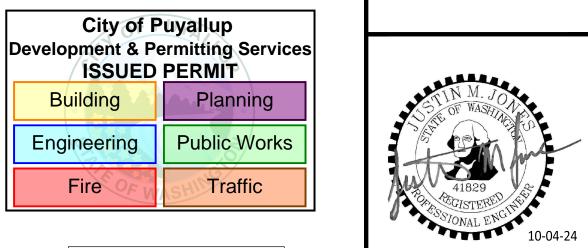
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SHEET NAME

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. 09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2





NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR FROM APPROVAL THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS
DETERMINED BY THE FIRE CODE

APPROVED

CITY OF PUYALLUP
DEVELOPMENT ENGINEERING

DATE _____10/11/2024

OFFICIAL.

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

FIELD CONDITIONS MAY DICTATE
CHANGES TO THESE PLANS AS
DETERMINED BY THE
DEVELOPMENT ENGINEERING

CALL TWO BUSINESS DAYS

BEFORE YOU DIG

1-800-424-5555 1-800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

Profile MANAGER.

C6-104

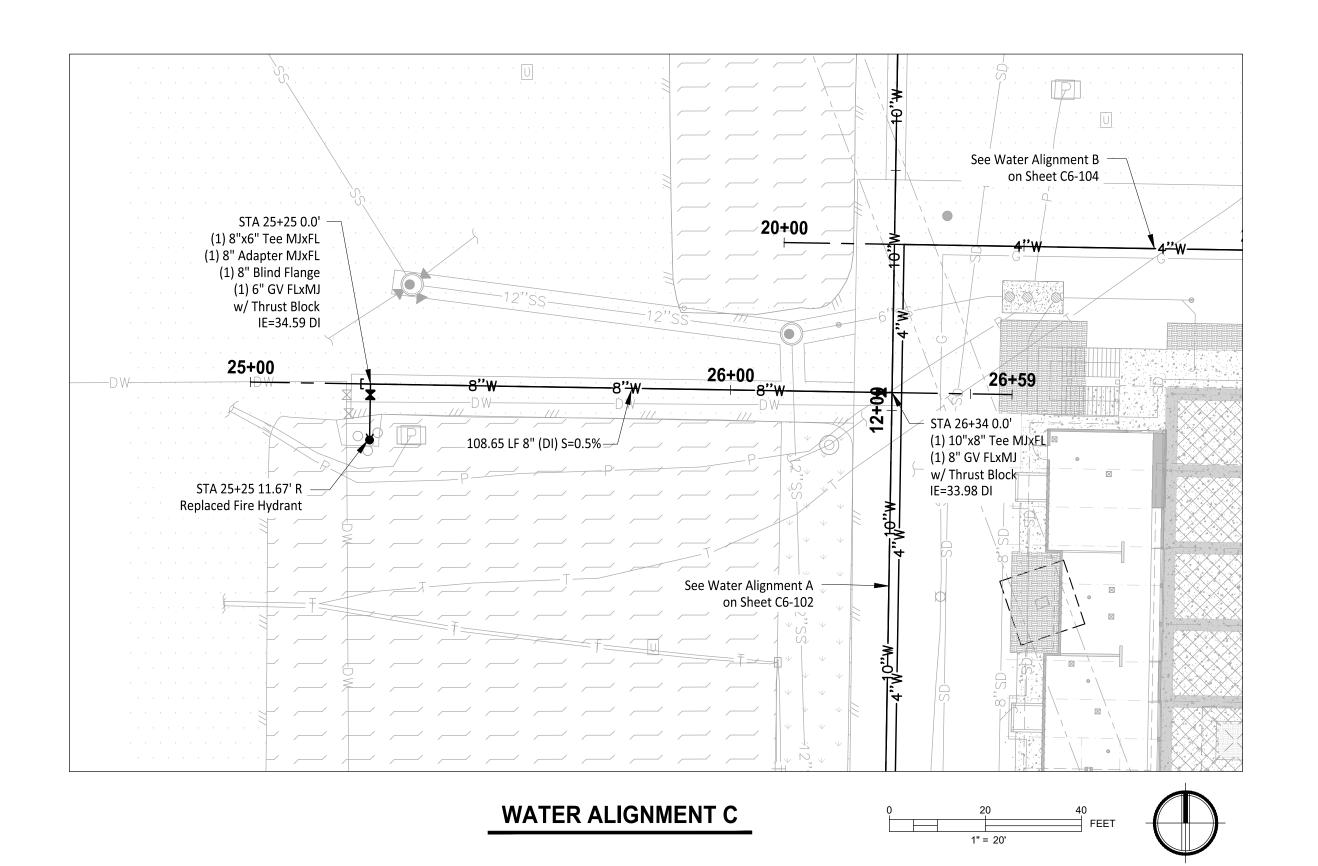
Water Plan &

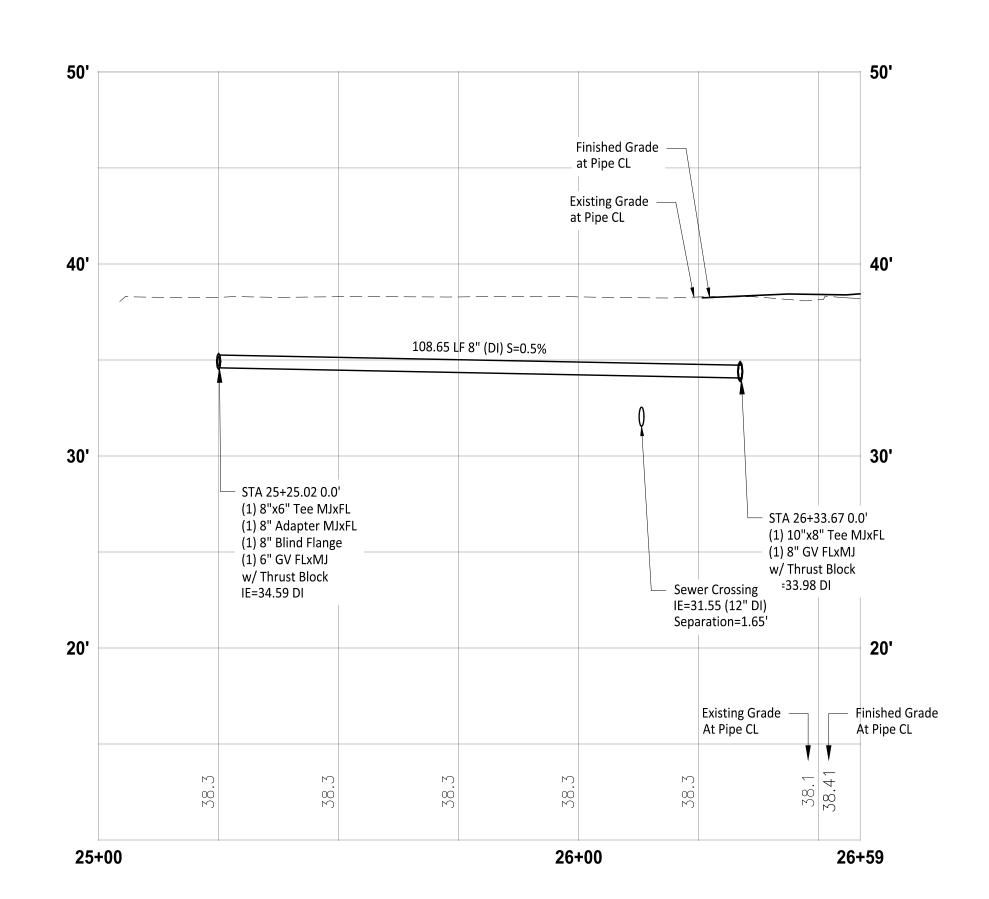
____33___ 0F __39

DESIGN BY:

1507-014

October 4, 2024





WATER ALIGNMENT C PROFILE

HORIZ: 1"=20' VERT: 1"=5'

LEGEND

Existing Domestic Water Line Existing Fire Line Proposed Water Line Existing Fire Hydrant

Proposed Water Line Washington State Fair
Existing Fire Hydrant 110 9th Ave SW
Puyallup, WA 98371
Proposed Fire Hydrant (253) 841-5356

GENERAL NOTES

. Contractor to pothole, locate horizontal and vertical utilities and verify with engineer prior to any utility work.

12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown

Jeff Brown Architecture

Architect:

Owner/Developer:

Washington
STATE FAIR

PUYALLUP



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

oject:

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

41829 PEGISTERED TESSIONAL ENGINEER

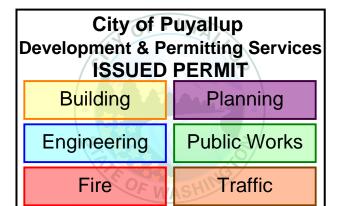
10-04-24

. 09-20-24 City Comment Cycle #1

2 10-04-24 City Comment Cycle #2

REV DATE DESCRIPTION

Civil Construction Permit



FIRE HYDRANT/FDC
LOCATION/ACCESS APPROVED

BY

CITY OF PUYALLUP
FIRE CODE OFFICIAL

DATE 10/15/2024

NOTE: THIS APPROVAL IS VOID AFTER 1 YEAR 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 FIRE CODE

APPROVED



DATE _____10/11/2024

MANAGER.

OFFICIAL.

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

CALL TWO BUSINESS DAYS
BEFORE YOU DIG

1-800-424-5555
UTILITIES UNDERGROUND LOCATION CENTER

Water Plan & Profile

DRAWN BY:

SHEET NAME

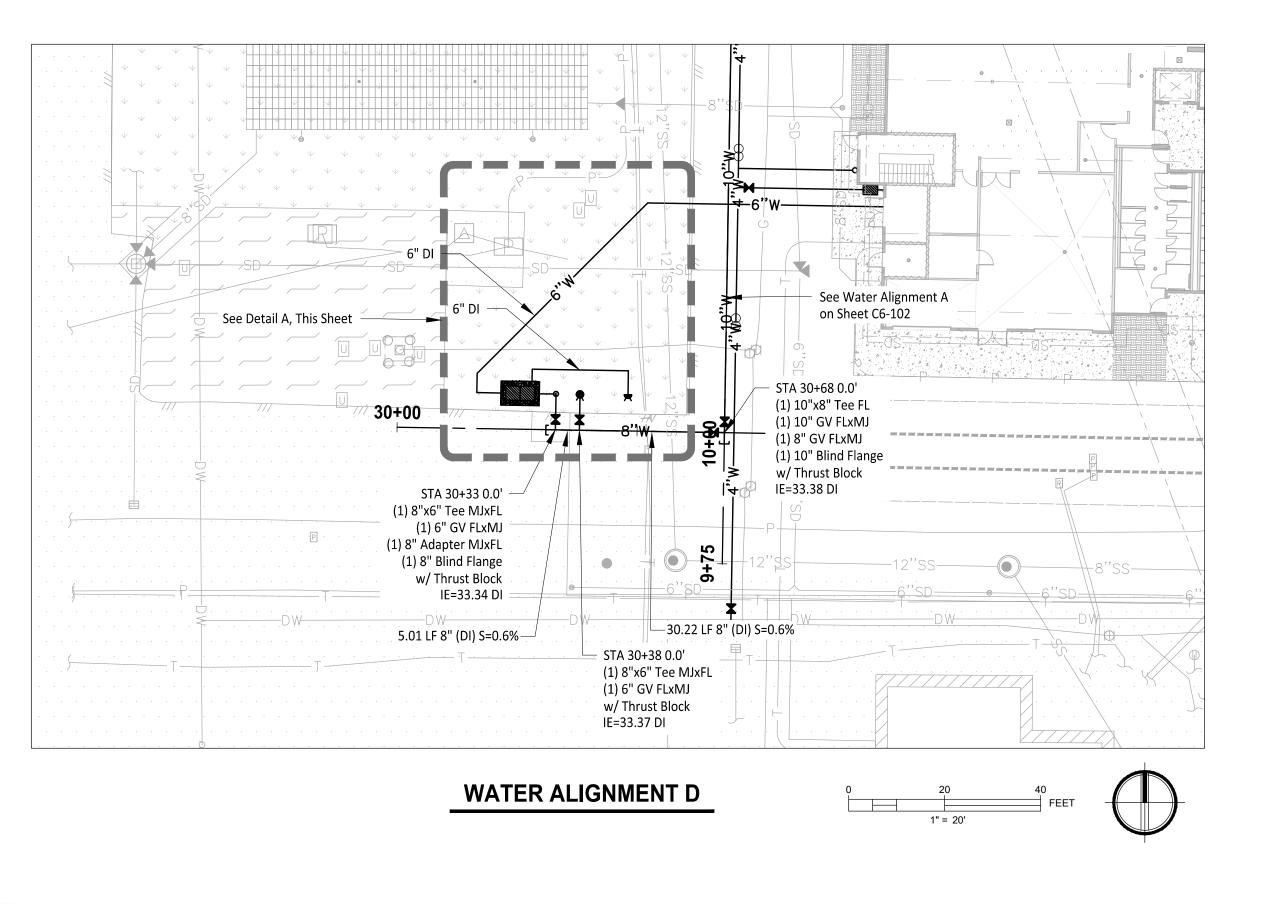
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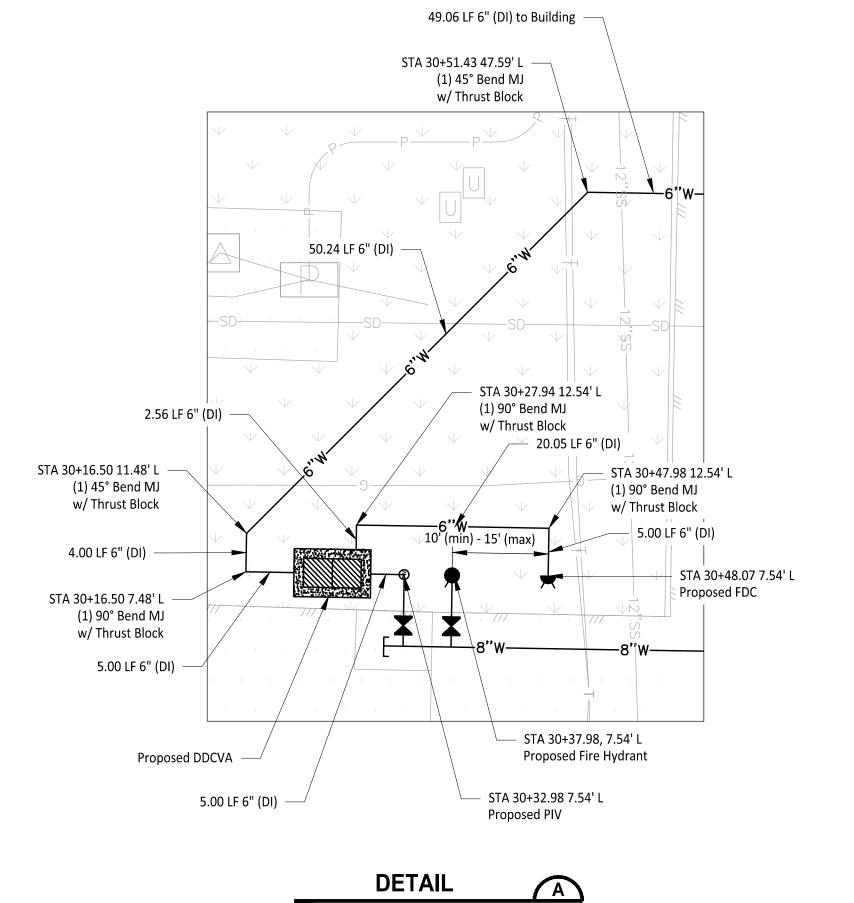
DESIGN BY:

1507-014

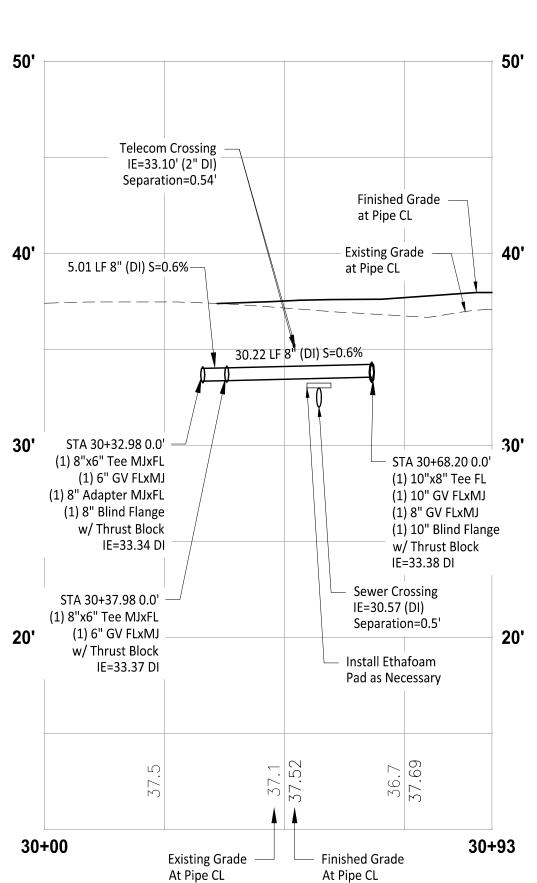
October 4, 2024

C6-105





SCALE: 1"=10'



WATER ALIGNMENT D **PROFILE** HORIZ: 1"=20' VERT: 1"=5'

LEGEND

____DW____ Existing Domestic Water Line Existing Fire Line -----FD---------- #" W -----Proposed Water Line Existing Fire Hydrant

GENERAL NOTES

Contractor to pothole, locate horizontal and vertical utilities and verify with engineer prior to any utility work.

Proposed Fire Hydrant

Owner/Developer:

Washington STATE FAIR **PUYALLUP**

Washington State Fair 110 9th Ave SW Puyallup, WA 98371

(253) 841-5356 Architect:

Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown



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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



41829 ALESSIONAL ENGINE	
TONAL BY	10-04-24

REV	DATE	DESCRIPTION
1	09-20-24	City Comment Cycle #1
2	10-04-24	City Comment Cycle #2

DESIGN BY:

1507-014

October 4, 2024

APPROVED BY CITY OF PUYALLUP DEVELOPMENT ENGINEERING

DATE __ 10/11/2024

OFFICIAL.

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE
RESPONSIBLE FOR ERRORS
AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE

City of Puyallup **Development & Permitting Services**

ISSUED PERMIT

FIRE HYDRANT/FDC

LOCATION/ACCESS APPROVED

CITY OF PUYALLUP FIRE CODE OFFICIAL

NOTE: THIS APPROVAL IS VOID

AFTER 1 YEAR FROM APPROVAL

THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS

AND/OR OMISSIONS ON THESE

FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS
DETERMINED BY THE FIRE CODE

_{DATE} 10/15/2024

Planning

Public Works

Traffic

Building

Engineering

CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING MANAGER.

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

C6-106

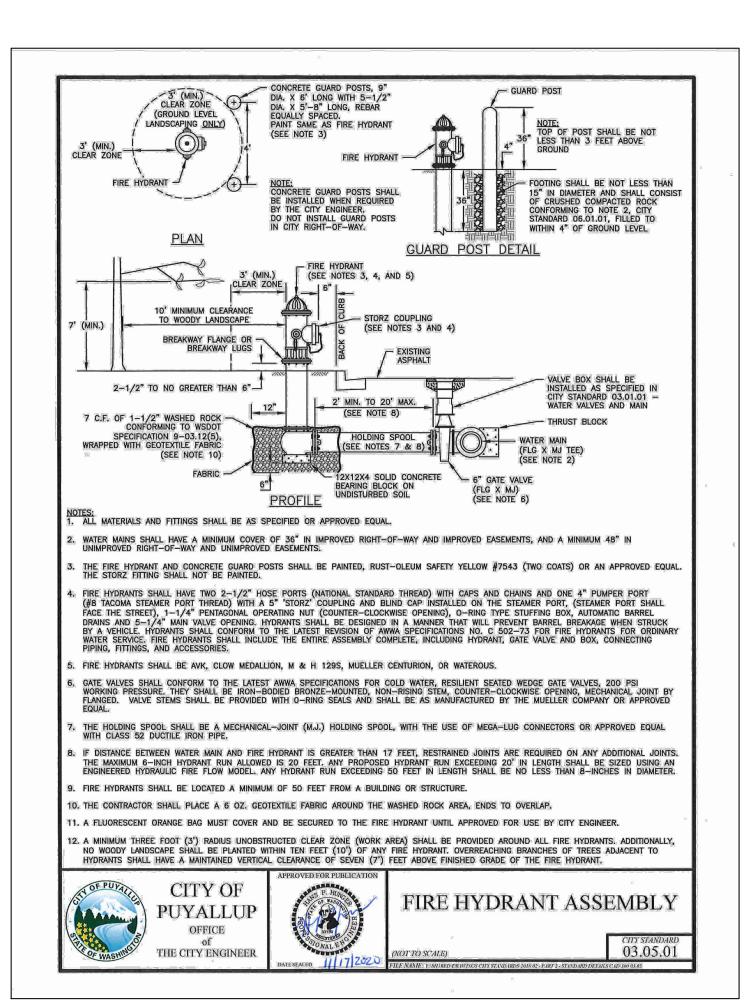
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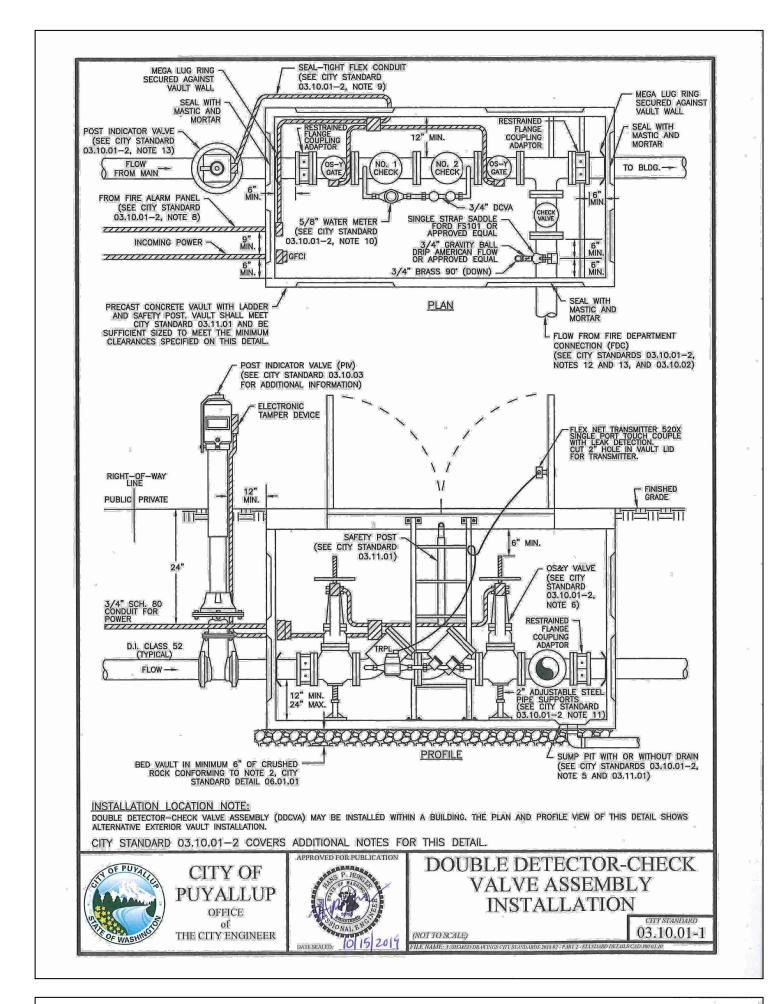
SHEET NAME

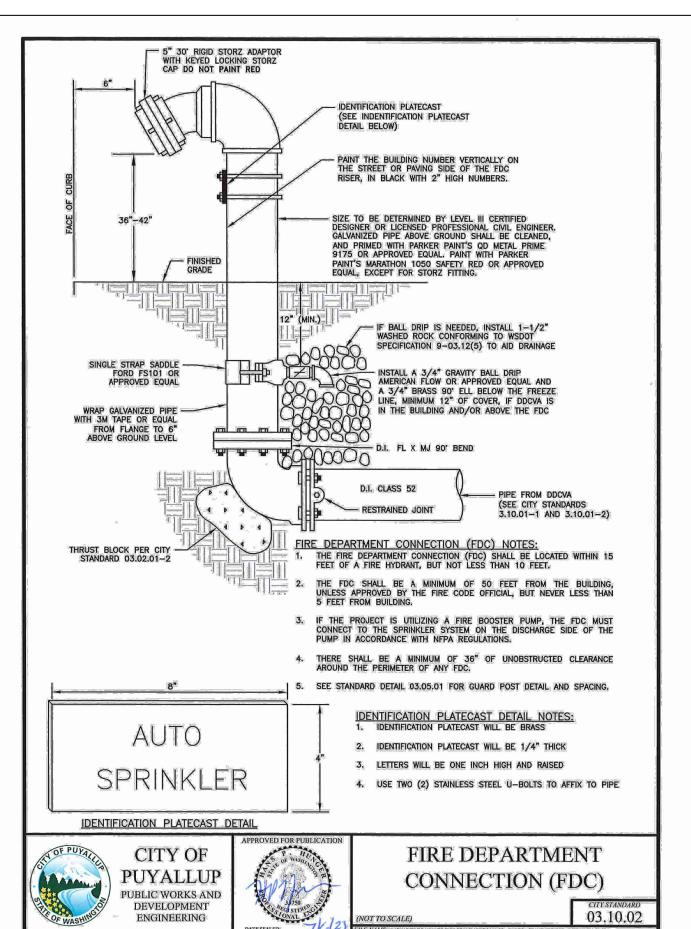
Profile

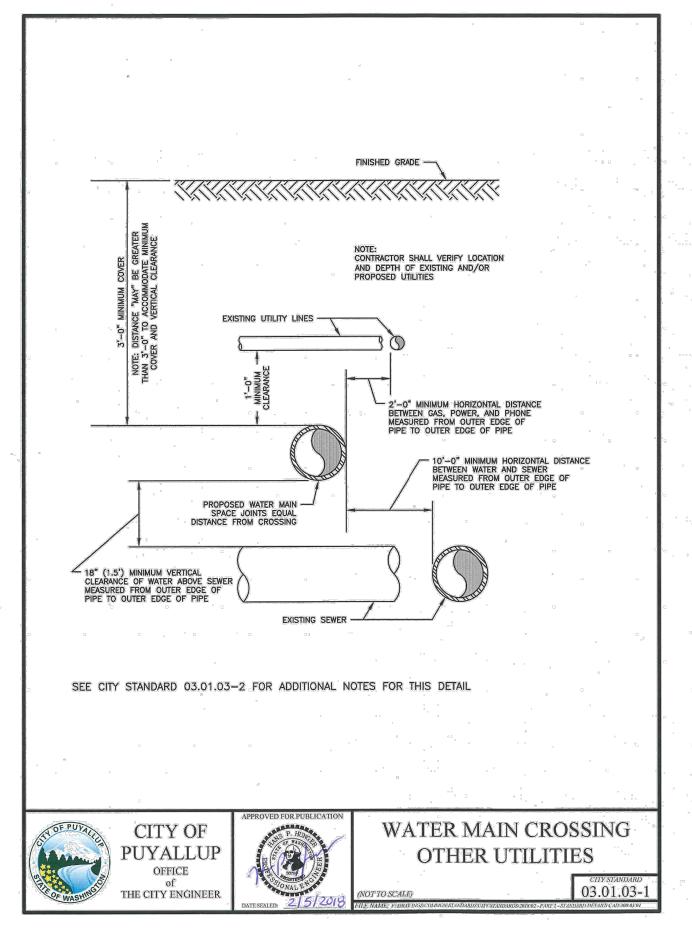
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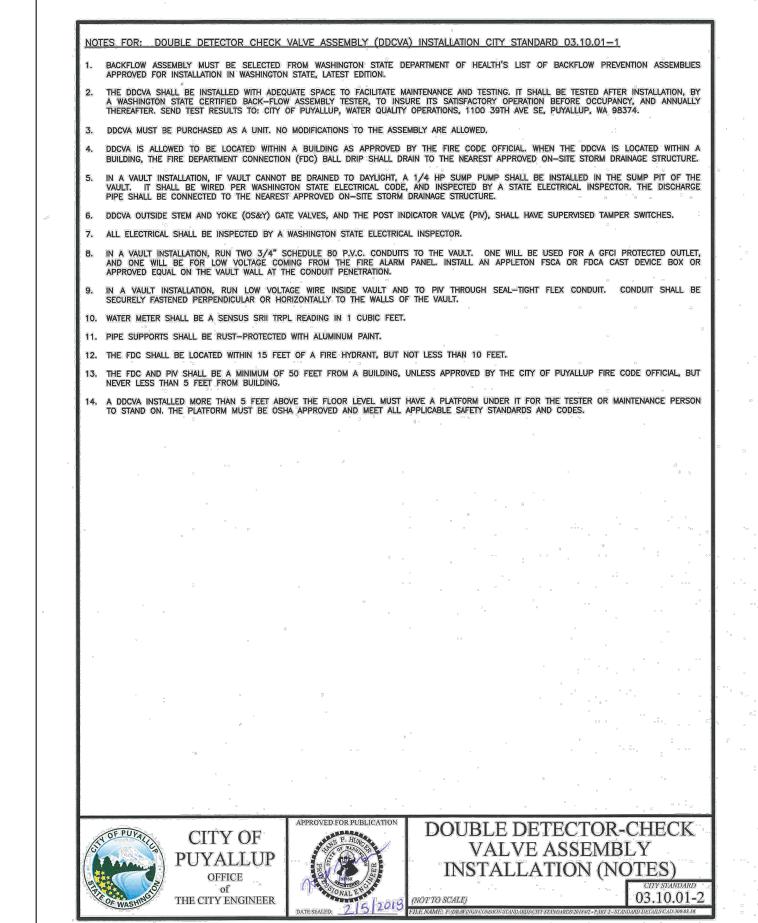
Water Plan &











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)

- SEWER LINE IS LAID IN A SEPARATE TRENCH FROM THE WATER LINE.
- 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.
- 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
- 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.

NUSUAL CONDITIONS (PERPENDICULAR SYSTEMS)

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

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.

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.
- ADEQUATE STRUCTURAL SUPPORT FOR THE SEWER LINE TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING OF
- 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.





WATER MAIN CROSSING OTHER UTILITIES (NOTES)

03.01.03-2

Owner/Developer:

Washington **STATE FAIR PUYALLUP**

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

Architect: Jeff Brown Architecture 12181 C Street South

Tacoma, WA 98444 (253) 606-8324

Contact: Jeff Brown



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

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGL'

Civil Construction Permit



			REV	DATE	DESCRIPTION
	1	09-20-24	City Comment Cycle #1		
City of Puyallup				10-04-24	City Comment Cycle #2
Development & Po					
ISSUED	PERMIT				
Building	Planning				
7					
Engineering	Public Works				
0	(0)				
Fire	Traffic				
· VI	AST				

APPROVED

DEVELOPMENT ENGINEERING

BY CITY OF PUYALLUP

DATE 10/11/2024

THE CITY WILL NOT BE

DETERMINED BY THE DEVELOPMENT ENGINEERING

BEFORE YOU DIG

PLANS.

MANAGER.

RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE

NOTE: THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL

FIELD CONDITIONS MAY DICTATE

-800-424-5555

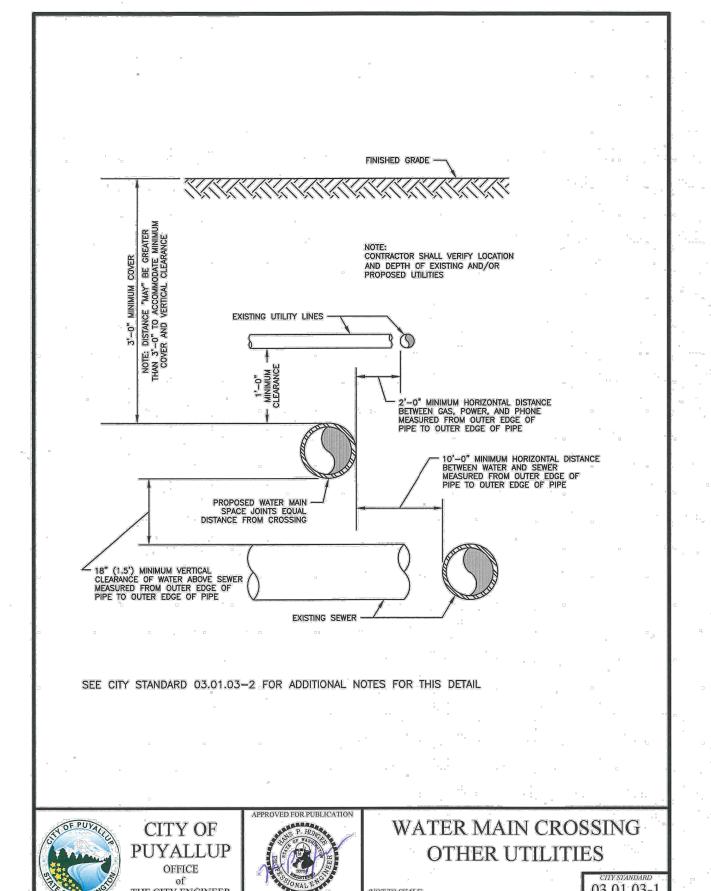
CHANGES TO THESE PLANS AS

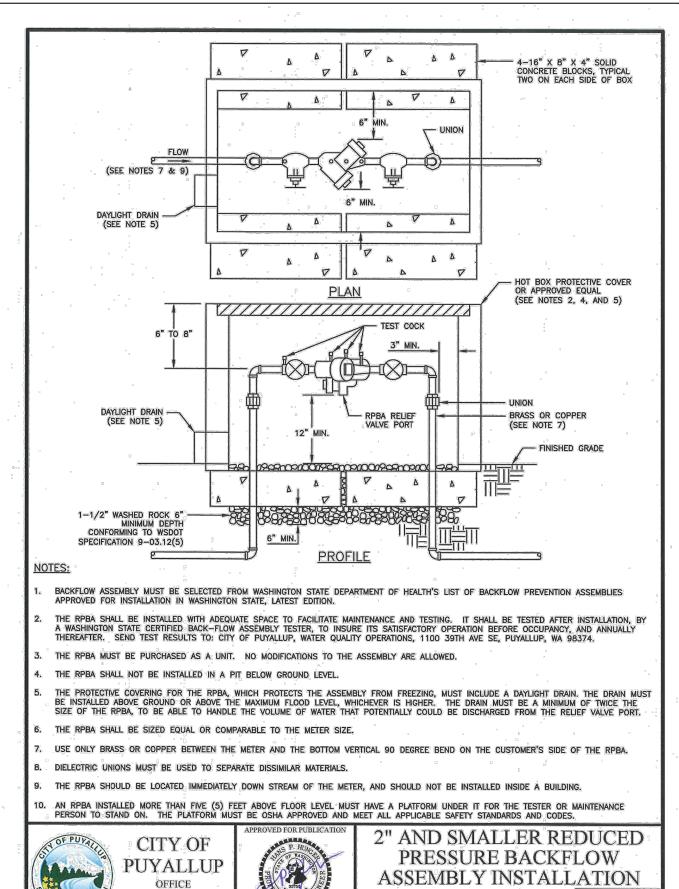
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DATE:			October 4	, 202
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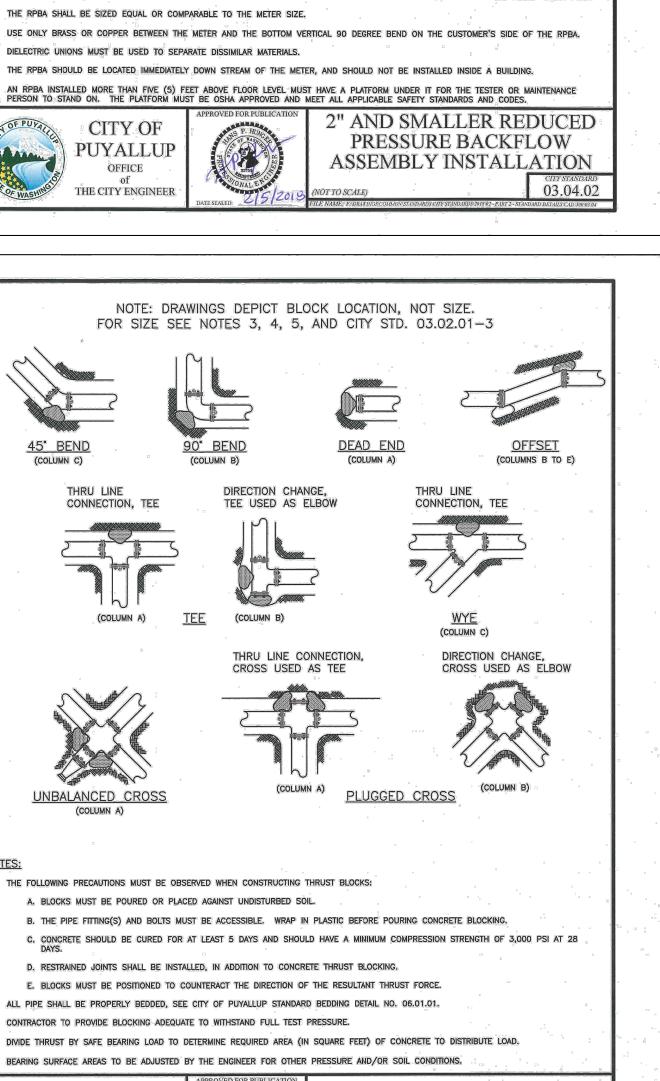
CALL TWO BUSINESS DAYS

C6-201

UTILITIES UNDERGROUND LOCATION CENTER







HORIZONTAL THRUST

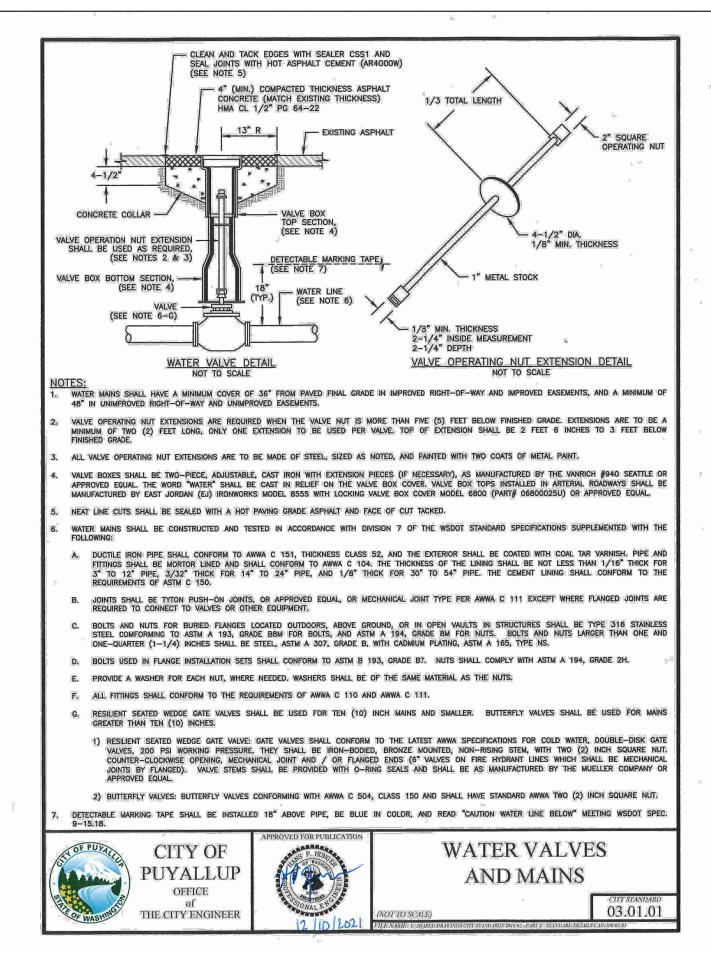
BLOCKING

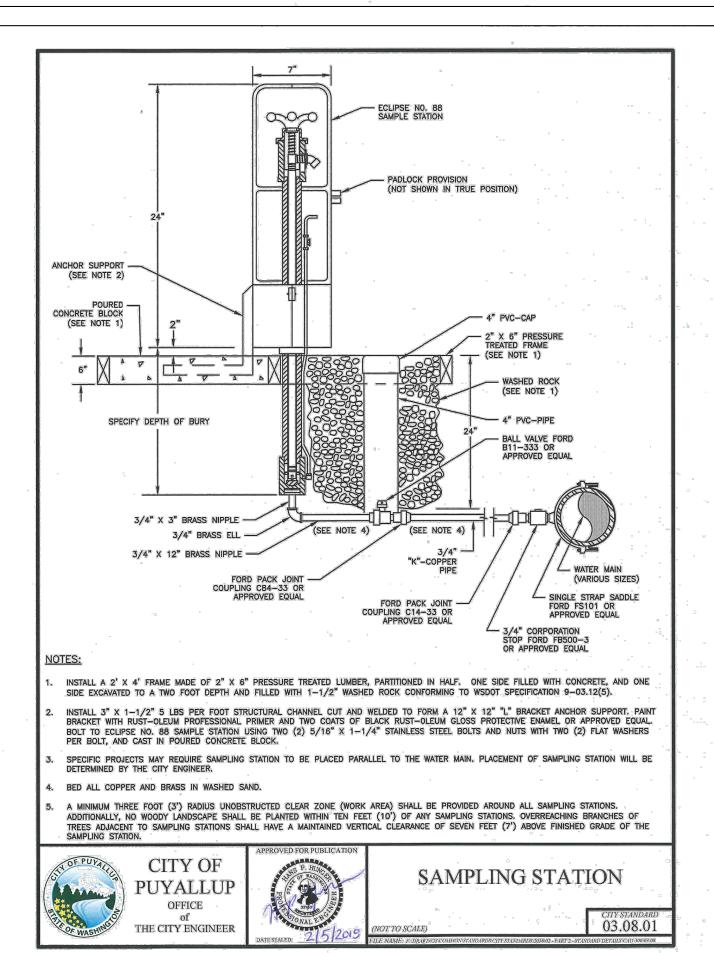
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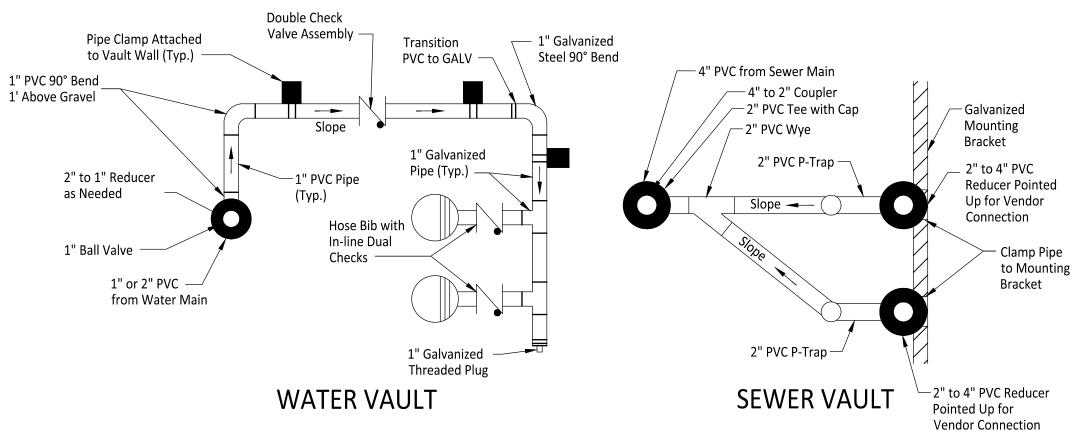
45° BEND

(COLUMN C)

OFFICE



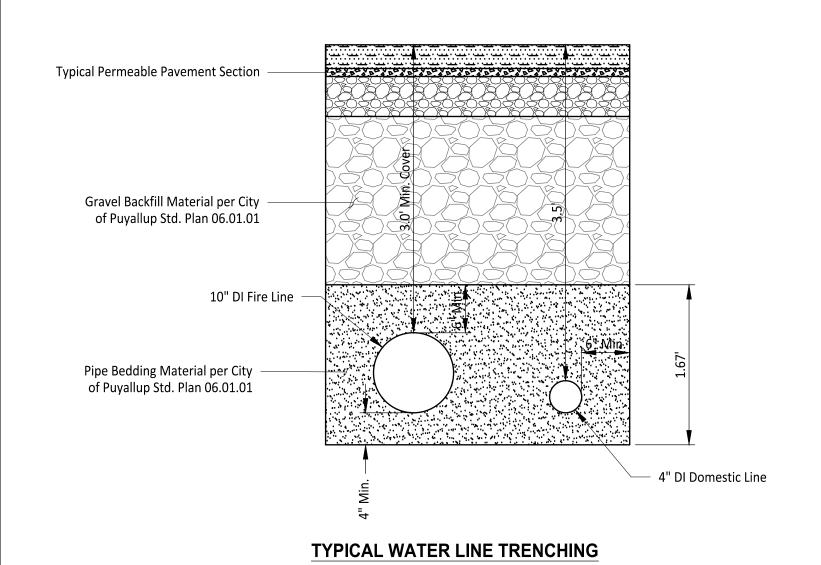




NOTES

- 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.
- All pipe clamps to be stainless steel.





SECTION

City of Puyallup Development & Permitting Services **ISSUED PERMIT** Building Planning **Public Works** Engineering Traffic

> CITY OF PUYALLUP DEVELOPMENT ENGINEERING DATE 10/11/2024 **NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE FIELD CONDITIONS MAY DICTATE CHANGES TO THESE PLANS AS DETERMINED BY THE DEVELOPMENT ENGINEERING

MANAGER.

APPROVED

BEFORE YOU DIG CALL TWO BUSINESS DAYS UTILITIES UNDERGROUND LOCATION CENTER

Washington STATE FAIR **PUYALLUP**

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

Owner/Developer:

Architect: Jeff Brown Architecture 12181 C Street South Tacoma, WA 98444 (253) 606-8324 Contact: Jeff Brown

JTEAM

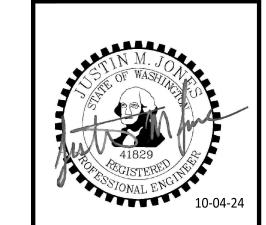
Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

Washington State Fair International Village

Redevelopment

ONE INCH AT FULL SCALE IF NOT, SCALE ACCORDINGL'

Civil Construction Permit



REV DATE DESCRIPTION 09-20-24 City Comment Cycle #1 2 | 10-04-24 | City Comment Cycle #2 DRAWN BY: DESIGN BY: MO 1507-014 October 4, 2024

C6-202

Water Details

SHEET NAME

37 OF 39

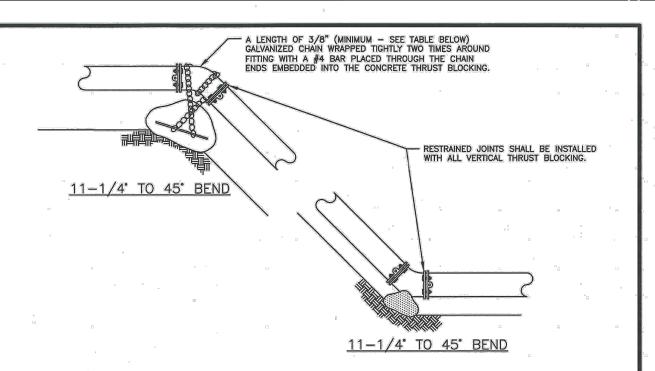


TABLE 1: CONCRETE BLOCKING FOR VERTICAL BENDS

PIPE DIAMETER (INCHES)	TEST PRESSURE (PSI)	BEND ANGLE (DEG)	CONCRETE VOLUME (FT ³)	CUBE SIZE (FEET)	CHAIN SIZE (INCHES)	CHAIN EMBEDMENT (INCHES)	
a		11.25*	. 6	1.8			
4"	200	22.5*	12	2.3	3/8"	17"	
ū.		45°	22	2.8			
6**	200:°	11.25	· ·- 14	2.4	3/8"	8	
		22.5	27	3.0		17"	
		45*	50	3.7			
8"	200	11.25	25	2.9			
		22.5	48	3.6	3/8"	. 17"	
		45°	89	4.5	3 0		
10"	200	11.25*	38	3.4	3/8"		
		22.5	75	4.2		17"	
		45°	139	5.2		C D P Non-manufactures are an	
12"	200	11.25	55	3.8	3/8*	17"	
		22.5*	108	4.8		u z ·	
		45*	200	5.8	1/2"	24" -	
14"	200	11.25	75	4.2	3/8"	17"	
		22.5°	147	5.3	1/2"	20"	
		45'	272	6.5	1/2"	27"	
16"	200	11.25	98	4.6	3/8"	17"	
		22.5*	192	5.8	1/2"	24"	
		45*	355	7.1	3/4"	30"	
		03.02.01-1 SHA 3 FOR ADDITIONAL	LL APPLY TO THIS	DETAIL.	0.0		

OFFICE THE CITY ENGINEER



VERTICAL THRUST **BLOCKING**

TABLE 2: THRUST AT FITTINGS AT 200 PSI

		THRUST FITTINGS AT 200 PSI					
	TEST	À	В	е	D	E.	
SIZE	PRESSURE (PSI)	TEE AND DEAD ENDS	90° BEND	45° BEND	22.5° BEND	11.25" BEN	
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.

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.

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

② TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (SF): SEE TABLE 3, BEARING VALUE OF SOIL

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.

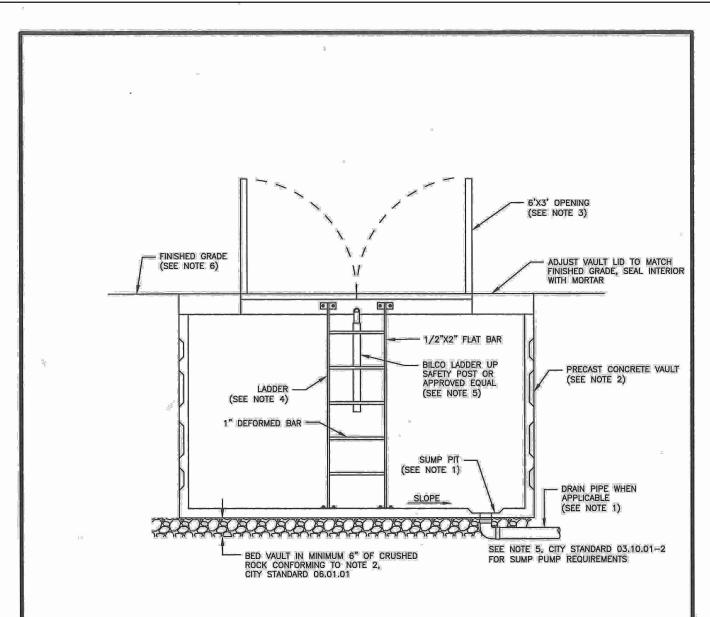
) NO WATER MAIN SHALL DEAD END AGAINST A MAIN LINE VALVE. DEAD END WATER MAINS SHALL BE BLOCKED AGAINST A RESTRAINED MECHANICAL JOINT (M.J.) PLUG OR CAP.



PUYALLUP OFFICE THE CITY ENGINEER



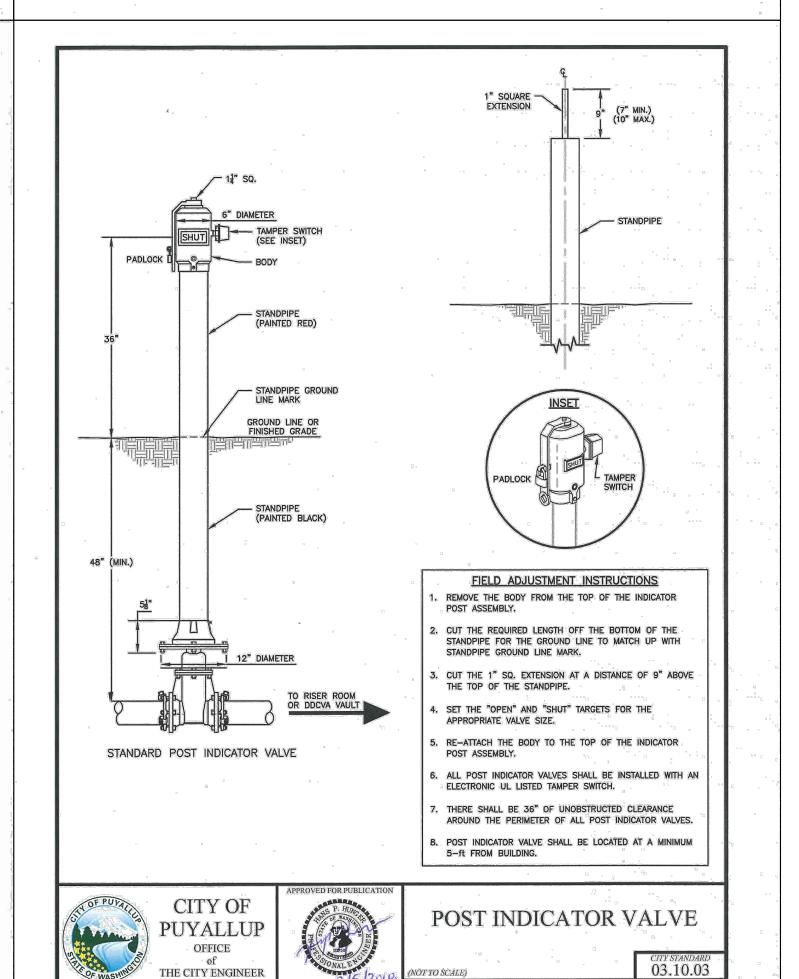
THRUST BLOCKING TABLE



- IF POSSIBLE, DRAIN VAULT TO DAYLIGHT OR APPROVED STORM DRAINAGE STRUCTURE (2% MINIMUM SLOPE). VAULT DRAIN SHALL BE 4" SCH 80 PVC PIPE WITH 1/4" GALVANIZED MESH SCREEN OR APPROVED EQUAL AFFIXED TO PIPE INLET AND OUTFALL, MASTIC AND MORTAR SEAL WHERE DRAIN PIPE PASSES THROUGH SUMP PIT AT FLOOR OF VAULT. WHEN VAULT DRAIN IS INFEASIBLE, A SUMP PUMP SHALL BE INSTALLED MEETING THE REQUIREMENTS OF NOTE 5, CITY STANDARD 03.10.01-2
- THE VAULT SHALL BE A PRECAST CONCRETE, SIZED TO MEET THE MINIMUM CLEARANCE REQUIREMENTS SHOWN ON DETAILS 03.03.03.09.01, OR 03.10.01-1. VAULT SHALL BE RATED FOR HS-20 LOADING, NO MODIFICATIONS TO PRECAST CONCRETE VAULT WALLS WILL BE ALLOWED WITHOUT WRITTEN APPROVAL FROM PRECAST SUPPLIER AND/OR ENGINEER OF RECORD.
- REMOVABLE DOORS SHALL BE A MINIMUM OF 6'-0" X 3'-0" ALUMINUM DIAMOND PLATE HINGED LOCKING DOORS, WITH HINGES LOCATED AT EACH END OF OPENING, AND WITH COVERED RECESSED PADLOCK HASP. DOORS SHALL BE SPRING LOADED AND LOCK IN THE OPEN POSITION. DOOR AND FRAME SHALL BE RATED FOR HS-20 LOADING.
- A GALVANIZED LADDER SHALL BE SET INSIDE THE VAULT FOR ACCESS. IT SHALL BE SECURED TO THE VAULT WITH 1/2 " DIA. BOLTS EPOXIED TO THE VAULT LID AND FLOOR.
- 5. A BILCO LADDER UP SAFETY POST MODEL NO. 2 (OR APPROVED EQUAL) SHALL BE ATTACHED TO AND CENTERED ON THE LADDER STEPS.
- THE VAULT SHALL BE PLACED IN A UTILITY EASEMENT OUT OF VEHICLE AND PEDESTRIAN TRAFFIC. CAST-IN-PLACE VAULTS SHALL BE PERMITTED BY THE CITY'S BUILDING DIVISION PRIOR TO CONSTRUCTION.



WATER VAULT DETAILS 03.11.01



City of Puyallup **Development & Permitting Services ISSUED PERMIT** Building Engineering Fire **APPROVED** CITY OF PUYALLUP DEVELOPMENT ENGINEERING DATE ___ 10/11/2024 **NOTE:** THIS APPROVAL IS VOID AFTER 180 DAYS FROM APPROVAL THE CITY WILL NOT BE RESPONSIBLE FOR ERRORS AND/OR OMISSIONS ON THESE 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 -800-424-5555 UTILITIES UNDERGROUND LOCATION CENTER

Planning

Public Works

Traffic

Owner/Developer: Washington STATE FAIR

PUYALLUP

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

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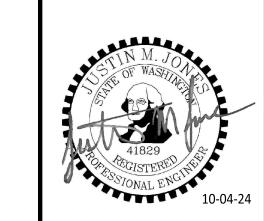


Justin Jones, PE 905 Main St. Suite 200 Sumner, WA 98390 (206) 596-2020

Washington State Fair International Village Redevelopment

ONE INCH AT FULL SCALE. IF NOT, SCALE ACCORDINGLY

Civil Construction Permit



REV	DATE	DESCRIPTION
1	09-20-24	City Comment Cycle #1
2	10-04-24	City Comment Cycle #2

October 4, 2024 SHEET NAME Water Details

MO

DESIGN BY:

1507-014

DRAWN BY:

C6-203

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