

Community Development Department

Building | Planning | Code Enforcement P.O. Box 9, 230 Davidson Avenue (360) 225-7299, www.ci.woodland.wa.us

NOTICE OF DECISION

1951 Schurman Warehouse and Office

	CDD 22 004 (Cit D) . D . : T . 2)
Land Use Application Nos.:	SPR 22-004 (Site Plan Review – Type 2)
	SEP 22-004 (SEPA)
3	Wilson Architects PLLC
	C/O Rusty Muyuela
Applicant:	404 E. 15 th St
	#7
	Vancouver, Washington, 98663
	DT Realty LLC
Property Owner:	Mark Dawkins
Froperty Owner.	610 NW 16 th Cir
	Ridgefield, WA, 98642
Site Location:	1951 Schurman Way
Site Location.	Woodland, WA 98674
Parcel & Size:	507870102, 3.06 Acres
Zoning Designation:	Light Industrial, I-1
Date Application Received:	October 28 th , 2021
Notice of Application &	Revised: May 11 th , 2022
Likely DNS issued:	Original: April 28 th , 2022 [See: case # SEP-22-004]
Comment Period & SEPA	Revised: May 25 th , 2022
Appeal Period Ended:	Original: May 12 th , 2022
Notice of Decision Issued:	May 31 st , 2022
DRC Decision:	Approve with Conditions

I. DESCRIPTION OF PROPOSAL

Applicant proposes to develop a new 15,050 SF warehouse and office distribution center for the storage, manufacture, and sale of golf carts and golf cart parts. Proposed development located at 1951 Schurman Lane in Woodland, Washington will consist of approximately 6,875 SF of warehouse space, as well as 3,675 SF of office space.

II. REVIEW AUTHORITY & FINDINGS

Per Woodland Municipal Code (WMC) 19.08.030, site plan reviews shall be approved, approved with conditions, or denied by the Development Review Committee and decisions shall be issued by the Community Development Department.

Development Impact Fees – Fire | WMC 3.41

Finding 1: Fire Impact Fees are required for the proposed building addition. Fees are calculated based on \$.51 per sq ft of building. Fees are calculated and due at the time of building permit issuance. Fee is estimated to be $(15050 \times \$0.51) = \$7,675.50$ for the project. A condition of approval has been added which requires the fees be calculated and paid at the time of building permit issuance. (See conditions 1 and 2)

Conclusion: As conditioned, the proposal can comply with this requirement. (See Findings 53 and 54 for fire review requirements.)

Development Impact Fees – Transportation | WMC 3.42

Finding 2: Transportation Impact Fees (TIF) are required on new development to support future transportation improvements within the city per WMC 3.42. The TIF is calculated based on \$838 per PM peak hour trip (PMPHT) generated by the project based on the project Traffic Study or where no study is prepared, based on trip generation in accordance with Institute of Transportation Engineers (ITE) published data.

Finding 3: For this proposal, trip generation was evaluated under the use classification "#150 – Warehousing" and "#715 – Single Tenant Office" from the ITE 10th Edition manual. The warehousing classification calls for 0.19 peak hour trips per 1,000 square feet while the single tenant office classification calls for 1.74 peak hour trips per 1,000 square feet. For the "#150 -- Warehousing" use, it is calculated that 6,875 s.f. of Warehouse under ITE category 150 generates 1.31 new peak hour and for the "#715 – Single Tenant Office" use, it is calculated that 3,675 s.f. of Office under ITE category 715 generates 6.39 new peak hour trips.

Finding 4: The above assumptions of building size and use category result in a total of 7.7 new PM peak hour trips. With a Transportation Impact fee of \$838.00/ Pm Peak Hour Trip, a rough estimation of the Transportation impact fee would be \$6452.60.

Impact fees are collected at the time of building permit issuance. (See conditions 1 and Condition 2)

Calculations are based upon gross floor area (GFA). Actual impact fees will be calculated and collected at the time of building permit issuance.

Conclusion: As conditioned, the project can comply with this requirement.

Streets and Sidewalks | WMC 12

Finding 5: Street trees along the sidewalk in the right-of-way are required.

Finding 6: The proposed landscaping plan indicates that Fraxinus americana 'Autumn Applause' trees shall be planted within the public Right-of-Way in order to comply with the City's Street Tree ordinance. (See condition 3)

Finding 7: Fraxinus americana 'Autumn Applause' is a permitted Street Tree under the 'Medium/Large' category of the list of acceptable street trees.

Finding 8: The street frontage at Schurman Way is generally, fully developed outside of the placement of required streetlights. Placement and construction of streetlights shall be in conformance with City of Woodland standards. A condition is added that all improvements in the public right-of-way shall be completed in accordance with City of Woodland standards. (See condition 4)

Conclusion: As conditioned, the proposal can comply with the development standards.

Water and Sewage | WMC 13

Finding 9A: Water mains are complete in the fronting street and extended through the site on the southern portion of the property. The applicant has proposed to construct a 6-inch fire line, 4-inch FDC line, and 2-inch domestic service line off the existing 12-inch water main. Sewer mains are complete in the fronting street. The applicant has proposed to construct a 6-inch sanitary sewer service line between the proposed building and existing sewer lateral. The layout of these utilities as shown in the current engineering plans appear to meet the requirements of the City Engineering Standards and comply with backflow and cross-connection requirements of WMC 13.28, as well as all other applicable WMC. (See conditions 5 and 6)

Finding 9B: The fire mains shall be public mains with a 15 ft wide easement to the City. The layout of these utilities as shown in the current engineering plans appear to meet the requirements of the City Engineering Standards and WMC. (See condition 7)

Finding 10: Water and sewer connection fees need to be paid for connection to the systems. Fees vary based on the connection size and will be assessed in accordance with the applicable rate schedule. (*See condition 2*)

Finding 11: A final utility plan is required to be submitted with the full civil review submission. Final utility plan must show proposed location, size, connection points to existing public systems and terminus points for sanitary sewer, water, and stormwater drainage as well as all public and private easements for all utilities. (*See condition 8*)

Conclusion: As conditioned, the proposal can comply with the development standards.

Erosion Control Ordinance | WMC 15.10

Finding 12: Applicants are required to install and maintain erosion control measures per the Best Management Practices as outlined in the 2012 version of the Stormwater Management Manual for Western Washington during site excavations and grading. An NPDES permit from the Department of Ecology is required where more than one acre is being disturbed. (See condition 9)

Finding 13A: A preliminary erosion control plan was included with the preliminary site plan submittal. A condition of approval is added to meet all erosion control requirements of WMC 15.10 and follow the Woodland Design Standards for erosion control. (*See condition 10*)

Finding 13B: Construction Entrance meets the width requirements as defined within City of Woodland Std. Details E-03 and E-05 but not the length requirement. The site will have more than one-acre exposed soil and the Construction Entrance shall be 100-feet minimum length. Please revise this sheet to show a minimum 20-foot wide by 100-footlong Construction Entrance. (See condition 11)

Conclusion: As conditioned, the project can comply with this standard.

Stormwater Management | WMC 15.12

Finding 14A: The applicant's submittal includes a grading and drainage plan that acknowledges the short-term stormwater management during construction, as well as a stormwater TIR that complies with requirements found in WMC 15.12.060.

Finding 14B: The applicant's submittal included a final stormwater TIR. A condition of approval is added to submit a revised, final stormwater TIR to address the following concerns:

- 1. Woodland MC 15.12.080, Quantity Control, requires 2-, 10-, 25- and 100-year, 24-hour storm events. 25-year not included.
 - a. Add 25-year, 24-hour storm values to Table 1 and Table 2.
- 2. Bioswale 11R, model lists 2.5' width at bottom, plans show 2'.
 - a. Revise the HydroCAD model for 2-foot-wide swale bottom or revise plans to show 2.5-foot-wide swale bottom.
- 3. Per Appendix III-6.1 of the 1992 Puget Sound Manual, biofiltration swales with less than 2-percent slope should include underdrains.
 - a. Provide under drains for the biofiltration swales.

Final Stormwater TIR provided alongside civil engineering review shall be modified to incorporate revisions as listed above. A condition of approval is added that all proposed site modifications must be consistent with the assumptions in the previous drainage plans and all proposed site drainage improvements must comply with WMC 15.12 and the City Engineering Standards. (See condition 12)

Conclusion: As conditioned, the proposal can comply with these standards.

Permitted Uses | WMC 17.44.020

Finding 15: Processing, packaging, and distribution of goods and services, as well as light manufacturing and fabrication of raw or previously processed metals and materials are both permitted within Light Industrial (I-1) zones, per WMC 17.44.020, so long as the process or end product complies with applicable restrictions regarding noise, smoke, dust, odors, toxic gases, vibration glare and/or heat.

Conclusion: As proposed, the project can comply with this standard.

Building Setbacks | WMC 17.44.070

Finding 16: The required setbacks in light industrial zones are:

- Front yard setback: 25 ft.
- Side yad setback: 10 ft. Where I-1 abuts a residential zone, the side yard setback shall be a minimum of 25 ft.
- Rear yard setback: 10 ft. Where I-1 abuts a residential zone, the rear yard setback shall be a minimum of 25 ft.

Finding 17: Proposed development does not abut a residential zone and must comply with the typical setback requirement within light industrial zoning districts.

Finding 18: Proposed setbacks indicated are as follows:

- Front yard setback: 36 ft.
- · Side Yard Setback (North): 29 ft.
- Side Yard Setback (South): 18 ft and 7.5 inches.
- Year Yard Setback: 20 ft.

Finding 19: Proposed development complies with setback requirements per WMC 17.44.070.

Conclusion: As proposed, the project can comply with this standard.

Building Height | WMC 17.44.080

Finding 20: Buildings within a light industrial zoning district shall not have more than three separate stories, and should adhere to a maximum height limit of forty-five (45) feet on lots that are smaller then one acre in size, or fifty-five (55) feet on lots greater than one acre.

Finding 21: Lot in question (parcel number 507870102) is 3.06 acres in area, and has a proposed building height of approximately 23 feet and three inches, which complies with WMC 17.44.080.

Conclusion: As proposed, the project can comply with this standard.

Off-Street parking and loading | WMC 17.44.100 & WMC Chapter 17.56

Finding 22: Per WMC 17.56.040 parking and loading facilities shall be located at the side or rear of buildings, provided that necessary parking and loading facilities may be permitted at the front only when appropriately landscaped according to the standards set out in WMC chapter 17.44.

Finding 23: On the provided preliminary site plan parking has been located to the front and side of the proposed building. Parking area is appropriately landscaped with proposed landscaping that meets the requirements within WMC Chapter 17.44.

Finding 24: Per WMC 17.56.040(B), the required number of parking spaces provided may be calculated based on one of the two following methods, whichever provides the most parking spaces:

- 1. Parking in relation to personnel:
 - a. One space for each two plant employees on maximum shift;
 - b. One space for each managerial personnel;
 - c. One visitor parking space for every ten managerial personnel;
 - d. No less than four per plant site.
- 2. Parking in relation to floor area:
 - a. One space for each one thousand two hundred fifty square feet of gross floor area used for warehousing and distribution;
 - b. One space for each seven hundred square feet of gross floor area used for manufacturing;
 - c. One space for each four hundred square feet of office floor area.

Finding 25: Applicant has not provided information to calculate the required parking in relation to personnel. A condition of approval has been added that the applicant shall provide estimated employee and management counts prior to civil engineering submission. (*See condition 13*)

Finding 26: Proposed development consists of 3,675 SF of office floor area of warehousing and distribution space. At one required parking space per every 400 SF of office space, there are 10 required parking space (3,675/400=9.19).

Finding 27: Proposed development consists of an additional 6,875 SF of warehousing and/or distribution floor area. At one required parking space per every 1,250 SF of warehousing or distribution space, there are an additional 6 required parking spaces (6,875/1,250=5.5). Combined, this calculation requires a total of 16 required parking spaces.

Finding 28: There are a total of 29 proposed parking spaces identified on the preliminary site plan, including one regular EV parking space, one EV ADA handicapped space, and one typical ADA handicapped parking space. This exceeds the required number of parking spaces based on floor area, however is not consistent with WAC 51-50-0429 and/or IBC (see finding 55 for EV spaces – One additional EV Station will be required).

Conclusion: As conditioned, the proposal can comply with these standards.

Vehicular Access | WMC 17.44.120

Finding 29: Per WMC 17.44.100, vehicular access to properties within the light industrial zoning districts shall occur via an arterial or system of arterials in order to minimize industrial use traffic traveling through residential districts.

Finding 30: Proposed development will utilize a shared driveway on the southern boundary of the property that provides access to Schurman Way, which is classified as a 'Major Industrial Collector' within Woodland's Transportation Map.

Finding 31: Schurman Way connects to Dike Access Road, a minor arterial road, approximately 1,000 feet from the Northernmost lot line of the property, providing access to the City of Woodland's system of arterials.

Conclusion: As proposed, the project can comply with this standard.

Landscape Design and Screening | WMC 17.44.133 – WMC 17.44.136

Finding 32: A landscaping plan guaranteeing the healthy growth of proposed landscaping in compliance with WMC 17.44 and signed by a certified landscaping professional is required prior to issuance of the preliminary site plan approval.

Finding 33: A landscaping plan was submitted with this preliminary site plan review application.

Finding 34: The proposed landscaping plan shall include tabulation showing the area and percentage of the following, per WMC 17.44.134:

- A. Entire site;
- B. Total landscaping areas;
- C. Areas covered by groundcover;
- D. Areas covered by nonplant materials;

- E. Areas covered by tree canopy and shrubs;
- F. Each required setback area;
- G. Total parking area;
- H. Parking landscaping; and
- Other landscaping areas.

Finding 35: The landscaping plan set includes calculation of the total area, total landscaping area, area covered by groundcover, area covered by non-plant material, and area covered by stormwater facility. A condition of approval has been added that final landscaping plan submitted alongside the civil review submission shall include all required calculations and tabulations per WMC 17.44.134. (*See condition 14 and 15*)

Finding 36: A combination of deciduous and evergreen trees, shrubs, and groundcovers shall be used for all planted areas, the selection of which shall be based on local climate, exposure, water availability, and drainage conditions per WMC 17.44.135 (C). All landscaped area, whether or not required, that is not planted with trees and shrubs or not covered with nonplant material, shall have groundcover plants that are designed to achieve 50% coverage of the area not covered by tree canopy and shrubs per WMC 17.44.135 (D).

Finding 37: Proposed landscaping is appropriate for the Pacific Northwest and achieves at least 50% coverage in areas not covered by tree canopy.

Finding 38: Per WMC 17.44.135 (E), trees shall have a minimum diameter or caliper measured at four feet above grade of two inches or greater at time of planting and shall be densely planted as certified by a certified landscaping professional.

Finding 39: Of the trees listed on the preliminary landscape plan, the fastigiate beech, Persian parrotia, and pyramidal European hornbeam are listed at a 2" caliper. The excelsa cedar and shore pine are listed as being 6-7ft in height, however no caliper measurement is given. A condition of approval has been added that the final landscaping plan provided as a part of the civil review process shall provide caliper measurements of all proposed tree plantings. However, staff acknowledges that available stock from nurseries can vary and strictly adhering to 2-in. caliper may be challenging. The proposed plant schedule is acceptable if they remain close to size requirements. (See conditions 16 and 17)

Finding 40: Per WMC 17.44.135 (F), shrubs shall be planted from a five-gallon container or larger at the recommended spacing as certified by a certified landscaping professional.

Finding 41: All proposed shrubs are indicated to be 5-gallons or larger tubs. However, there is a wide variety of shrubs proposed. The proposed plant schedule and shrub sizes can comply with WMC 17.44.135 (F) based on provided preliminary landscape plan.

Finding 42: Per 17.44.135 (I), the use of drought-tolerant plant species is encouraged and shall be required when irrigation is not available. Irrigation will be provided according to note 1 on the landscaping plan.

Finding 43: Per WMC 17.44.136 (B), in the front yard landscaping area, trees, shrubs, and plant ground cover should be planted along the entire road frontage area and meet the requirements of WMC 17.46.

Finding 44: The proposed plantings in the front yard setback meet the requirements of WMC 17.44.136 (B). A row of trees and shrubs are indicated running along the front setback.

Finding 45: Per WMC 17.44.136 (F), a minimum of ten percent of the total surface area of all proposed parking areas, as measured around the perimeter of all parking spaces and maneuvering areas, shall be landscaped. The preliminary landscaping plan does not provide a calculation for parking lot area or parking lot landscaping percentage. A condition of approval has been adding that final landscaping plan provide the calculation for parking lot area and parking lot landscaping percentage. (*See condition 18*)

Finding 46: At a minimum, one tree per five parking spaces shall be planted to create a partial tree canopy over and around the parking area. All parking areas with more than twenty spaces shall include landscape islands with trees at both ends and in between to break up the parking area into rows of not more than ten contiguous parking spaces.

Finding 47: The proposed parking lot consists of 29 parking spaces and 14 trees, which exceeds the 6 trees required to meet this standard. Landscaping islands are indicated that generally comply with WMC 17.44.136 (F)(2) with trees flanking the parking islands and in between rows of parking.

Finding 48: Per 17.44.136 (G), all mechanical equipment, outdoor storage and manufacturing areas, service and delivery areas, garbage receptacles and recycling containers shall be fully screened from view from all public streets and adjacent nonindustrial zoning district(s) and/or use(s) in a manner which is architecturally integrated with the structure. Such screening shall be a minimum of six feet provided by a decorative wall (i.e., masonry or similar quality material), evergreen hedge, opaque fence complying with the standards of this section, or a similar feature that provides an opaque barrier.

Finding 49: Plans provided along with the site plan review application outline that all mechanical equipment, outdoor storage and manufacturing areas, service and delivery areas, garbage receptacles and recycling containers are fully screened from view with appropriate fencing and landscaping. (*See condition 19*)

Conclusion: As conditioned, the proposal can comply with these standards.

Lighting | WMC 17.44.140

Finding 50: The operator shall be responsible for ensuring that lighting is installed and arranged to ensure that no reflection or glare shall conflict with the readability of traffic signs or control signs. Lighting shall also not rotate, glitter, or flash per WMC 17.46.140. (*See condition 20*)

Conclusion: As conditioned, the proposal can comply with these standards.

Site Standards | WMC 17.44.160

Finding 51: All buildings and yards shall be maintained in a neat and orderly manner. Landscaping shall be maintained in a healthy, presentable state. (See condition 21)

Conclusion: As conditioned, the proposal can comply with these standards.

Performance Standards | WMC 17.48

Finding 52: The requirements of this section cover hazards and nuisances including sound level, vibration, air emissions, smoke, dust, odors, industrial wastes, fire hazards, heat, glare, radioactivity and radio transmitters.

The applicant will be responsible for ensuring that their operation is complying with all performance standards. (See condition 22)

Conclusion: As conditioned, the proposal can comply with this standard.

Fire Safety

All buildings must be constructed in accordance with WA Building and Fire Codes. Plan revisions and building plans must be submitted directly to Clark-Cowlitz Fire Rescue (CCFR) for fire review.

Finding 53: Applicant is required to receive CCFR site plan approval and comply with all comments and/or conditions. (*See condition 23*)

Finding 54: Building construction plans shall be submitted to CCFR separately, along with any fire alarm and/or fire sprinkler alterations. (*See condition 24*)

Conclusion: As conditioned, the proposal can comply with Fire Code.

Building

The City has adopted the 2018 edition of the International Building Code (IBC) through WMC Title 14. All commercial building review is conducted by Townzen & Associates.

Finding 55: The site plan shows two ADA parking spaces. These meets building code requirements.

Finding 56: Per Washington State Code 51-50-0429 Section 429, electric vehicle charging infrastructure must be provided for at least ten percent of provided parking spaces. For the proposed 29 parking spaces, this would require 3 EV spaces be available while two are listed on provided site plan. One EV charging space must be an ADA-compatible space, one of which is indicated on provided preliminary site plan. A condition has been added that one more EV space must be added to final engineering. (*See condition 25*)

Finding 57: Geotech report requirements and recommendations are required to be incorporated into the design of the project. (*See condition 26*)

Finding 58: The building will be required to comply with WSEC Section C411 (Solar Readiness). (*See condition 27*)

Finding 59: The project will be required to meet ventilation requirements of IMC SEC 502 related to charging and storing batteries. (*See condition 28*)

Finding 60: HVAC, storefront and plumbing are required to be included at plan submittal and are not deferrable items. A condition is added to meet these requirements. *See* (*condition 29*)

Finding 61: WMC 17.52.080 outlines the City of Woodland's requirements for any signage within industrial (I-1 or I-2) district. Per WMC 17.52.080 it is the applicant's responsibility to apply for the separate sign permit(s) for any signage proposed. (*See condition 30*)

Conclusion: As conditioned, the proposal can comply with Building Code.

Engineering

All engineering is reviewed by Gibbs & Olson, the City's engineering services consultant. Notes have been provided by Ryan Walters, who serves as the City Engineer.

Finding 62A: Applicant is responsible for taking appropriate action to address concerns expressed by the associated engineering memo prepared by Ryan Walters, P.E. with Gibbs & Olson and dated 05/27/2022.

Finding 62B: Findings and conditions associated with the preliminary review have been integrated into this staff report under the following subjects;

- WMC 3.42: Development Impact Fees
- WMC Title 12: Streets and Sidewalks
- WMC Title 13: Water and Sewage
- WMC 15.10: Erosion Control
- WMC 15.12: Stormwater Management

Conditions have been added that the applicant must adhere to provided engineering comments, and that the applicant shall provide responses acknowledging the submitted comments. (See conditions 31 and 32)

Washington Department of Ecology Comments

Finding 63: Applicant is responsible for taking appropriate action to address concerns expressed by the memo prepared by the Washington State Department of Ecology and dated May 12th, 2022:

- Ecology was concerned with mapped wetlands that were previously present and requested further documentation be provided.
- Ecology requested that all grading and filling of land utilize only clean fill and all removed debris be disposed of at an approved site.

• Ecology requires all erosion control measures be put in place and fully functional prior to any clearing, grading, and/or construction activities.

A condition of approval has been added that the applicant must adhere to the requirements expressed by the Department of Ecology. (See condition 33)

Finding 64: Applicant provided ecology with further documentation that addressed concerns over wetlands. This included documentation of applicable Department of Ecology and U.S. Army Corps of Engineers permits permitting the clearing of wetlands on the project site, along with City permitting (FGR-17-003) to perform the work required to clear identified wetlands. This further documentation addressed ecology's concerns.

Conclusion: Applicant can comply with comments provided by the department of ecology.

Citizen Comments

Finding 65: David Simpson, a local resident, and the owner of an adjacent property, provided two comments specific to this project, the first through a phone call on approximately May 5th, 2022, and the second through an email on May 10th, 2022.

Finding 66: David Simpson, the owner and operator of Burris Creek Mini-Storage on Robinson Road, which is adjacent to the rear of the proposed site of development, expressed two primary concerns:

- Concern over procedural errors on the part of the city, which were addressed with the revised Notice of Application and reopening of the comment period on May 11th, 2022.
- Concerns over the applicant's stormwater detention system, specifically that
 proposed stormwater detention pond located at the rear of the property does
 not have the capacity to ensure that on-site detention does not spill over to
 adjacent properties through an identified emergency overflow.

Finding 67: Our engineering team was provided these specific comments and has completed their review of the engineering documentation provided (See finding 61), including provided preliminary Stormwater TIR, civil plans, and preliminary site plan. Based on their review and comments, it is believed that the applicant can adequately address all engineering concerns addressed, and provide any applicable revisions required to be consistent with WMC chapter 15.12, and the 1992 Stormwater Management Manual for the Puget Sound.

Finding 68: While, as stated above, the City has determined provided stormwater plans to be acceptable and provided comments so that the applicant can provide a final TIR

along with other documentation that is fully compliant with city standards, the applicant is strongly encouraged to take the opportunity to start a dialogue with Mr. Simpson and other neighbors in the interest of addressing their concerns. The city would be more then happy to help open lines of communication, if requested.

Preliminary Site Plan Approval | WMC 19.10.070

Finding 69: The applicant submitted a preliminary site plan. Per WMC 19.10.070, the applicant is required to submit for final civil plan approval and submit a final site plan application. (*See conditions 34 and 35*)

Conclusion: The preliminary site plan can be approved with conditions.

III. COMPREHENSIVE PLAN REVIEW

Land Use: Under the City of Woodland Comprehensive Plan, as established in 2016, the purpose and primary goal of our established Comprehensive Plan Land Use Map is to protect and enhance the character and long-term stability of the city through current standards for land development and subdivision utilizing proper and clear zoning policy.

Finding 70: The proposed development is located within the light industrial district as defined by the Comprehensive Plan, the purpose of which is to designate areas primarily for light manufacturing, distribution, sales and services, research, and office space.

Conclusion: Proposed development under consideration is proposed as a 15,050 SF warehouse and distribution site for golf carts with an on-site office structure, uses which are consistent with its Light Industrial (I-1) zoning within the Comprehensive Plan Land Use Map.

Transportation: Under the Comprehensive Plan's Transportation outline, the primary goal of the established transportation planning process is to facilitate the implementation and expansion of a convenient, safe, and efficient transportation system that promotes the mobility of people and goods within and through the city.

Finding 71: The proposed development offers roadway connections within the city road network, as well as facilitate the transportation of goods locally.

Conclusion: Proposed development under consideration is consistent with the goals and policies outline within the Comprehensive Plan's Transportation outline.

Economic Development: Under the Comprehensive Plan's Economic Development Outline, the primary goal of the established economic development planning process is to continue to foster economic growth within those industries that have sustained the community and to foster reinvestment in the city center, with the intention of balanced economic growth.

Finding 72: The proposed development is a warehousing and distribution site with an on-site office, which is consistent with other industries within the light industrial zoning district, establishing continued economic growth within an established industry.

Finding 73: The proposed development is in line with providing a balanced economy between industrial and commercial uses, as it would promote diversification of our economic balance following recent major commercial developments while also attracting more business through customers and employees of the new development.

Conclusion: Proposed development under consideration is consistent with the goals and policies of the Comprehensive Plan's Economic Development outline.

Environment: The primary goal of the Comprehensive plan's Environmental outline is to ensure that the City of Woodland remains an effective steward of the environment, protects critical areas, and conserves land, air, water, cultural, and energy resources.

Finding 74: The proposed development has been submitted for a SEPA review, as well as generally providing required economic protection documentation as outlined in the Woodland Municipal Code.

Conclusion: Proposed development under consideration is consistent with the goals and policies of the Comprehensive Plan's Environmental outline.

IV. ENVIRONMENTAL REVIEW

The lead agency for this proposal has determined that it does not have a probable significant adverse impact on the environment. An environmental impact statement (EIS) is not required under RCW 43.21C.030(2)(c). This decision was made after review of a completed environmental checklist and other information on file with the lead agency. This information is available to the public on request. This Determination of Non-significance (DNS) is issued after using the optional DNS process in WAC 197-11-355. There is no further comment period on the DNS.

V. DECISION

Per WMC 19.08.030, the above application for the preliminary Site Plan Review has been **APPROVED WITH CONDITIONS** by the City of Woodland's Development Review Committee

(DRC) based on the criteria and standards outlined in Woodland Municipal Code (WMC). See Section VII for conditions of approval.

VI. CONDITIONS OF APPROVAL

- 1. The following impact fees have been estimated based on the first phase of the preliminary application and will be due at time of building permit issuance:
 - a. Fire Impact Fees:
 - i. Commercial: \$7,675.50 (\$.51 per square foot of commercial space).
 - b. Transportation Impact Fees:
 - i. Commercial -7.7 peak hour trips X \$838 per trip = \$6452.60.

Water and sewer assessment fees are required based on meter size in accordance with the Woodland rate schedule.

- 2. All impact fees are charged with building permit issuance. All provided calculations are estimated and subject to change.
- 3. Final landscaping plan is required to identify proposed street trees. All proposed street trees, whether Fraxinus americana or otherwise, must be a permitted street tree per City of Woodland standards.
- 4. Applicant shall construct all required streetlights, and any other required frontage improvements, along their frontage on Schurman Way in conformance with City of Woodland Engineering Standards as found: https://www.ci.woodland.wa.us/publicworks/page/construction-standards.
- 5. Applicant shall utilize existing water and sewer stubs for connection if possible and permanently abandon any service stub that are not used.
- 6. Comply with water supply backflow and cross-connections requirements of WMC 13.28.
- 7. The fire mains shall be public mains with a 15-foot wide easement to the City.
- 8. A final utility plan is required with civil plan submittal. Final utility must show proposed location, size, connection points to existing public systems and terminus points for sanitary sewer, water, and stormwater drainage. Public and private easement for all utilities shall be indicated.
- 9. A NPDES permit from the Department of Ecology is required in cases in which more then one acre is being disturbed.

- 10. A final erosion control plan will be required with final engineering plans. The applicant is required to install and maintain erosion control measures per the best management practices as outlined in WMC 15.10.
- 11. Revise the proposed construction entrance as directed to ensure accordance with WMC.
- 12. A Final Stormwater Technical Information Report (TIR) is required that complies with WMC 15.12 and the 1992 Stormwater Management Manual for the Puget Sound Basin as adopted by the City of Woodland and addresses the following concerns:
 - a. Add 25-year, 24-hour storm values to Table 1 and Table 2.
 - b. Revise the HydroCAD model for 2-foot-wide swale bottom or revise plans to show 2.5-foot-wide swale bottom.
 - c. Provide under drains for the biofiltration swales.
- 13. Applicant shall provide required information regarding projected employment at prior to civil review to confirm compliance with parking lot requirements.
- 14. A final landscaping plan meeting all requirements within WMC 17.44.133 is required to be submitted alongside the final site plan application prior to final approval. Final landscaping plan must include tabulations showing the area and percentage of the following:
 - a. Entire site;
 - b. Total landscaping area(s);
 - c. Areas covered by groundcover;
 - d. Areas covered by nonplant materials;
 - e. Areas covered by tree canapy and/or shrubs;
 - f. Each required setback area;
 - g. Total parking area;
 - h. Parking lot landscaping; and
 - Other landscaping areas.

Final approval will not be given until the final landscaping plan has been approved.

- 15. Approved landscaping plan must be implemented as approved prior to occupancy of the building.
- 16. The City of Woodland should be informed of any changes to the approved landscaping plan, including changes in coverage, street trees, and/or tree, shrub, or ground cover proposed.
- 17. Final landscaping plan provided alongside civil review must provide the diameter of all proposed trees and comply with WMC 17.44.135 (E).

- 18. Final landscaping plan must provide accurate calculations (in square feet and percentages) for parking lot area and parking lot landscaping.
- 19. All mechanical equipment, outdoor storage and manufacturing areas, service and delivery areas, garbage receptacles and recycling containers must be fully screened from view of all public streets and adjourning nonindustrial zoning district(s) and/or use(s) per the requirements of WMC 17.44.136 (G).
- 20. Final photometric plan is required with civil review submission. Lighting shall not rotate, glitter, and/or flash per WMC 17.46.140.
- 21. It is the responsibility of the property owner to ensure that all buildings and yards are maintained in a neat and orderly manner.
- 22. The applicant will be responsible for ensuring that their operation is complying with all performance standards of WMC 17.48 (hazards and nuisances including sound level, vibration, air emissions, smoke, dust, odors, industrial wastes, fire hazards, heat, glare, radioactivity and radio transmitters).
- 23. Submit site plan to CCFR for review. Include any required revisions with the civil engineering submission. All work subject to field inspection and correction as identified at the time of the on-site inspection; all work shall be compliant with the applicable standards and codes; to include the adopted edition of the International Fire Code and the City's Municipal Code.
- 24. Building/construction plans must be submitted to CCFR separately, along with fire alarm and/or fire sprinkler alterations. It is the responsibility of the applicant to comply with any and all conditions placed upon the development by CCFR as the City of Woodland will not approve any proposed development without CCFR approval.
- 25. One additional EV charging parking space must be indicated on final engineering plans and installed prior to receiving their certificate of occupancy consistent with WAC 51-50-0429, and installed alongside construction of the proposed parking area.
- 26. Geotech report requirements and recommendations are required to be incorporated into the design of the project.
- 27. Final building and engineering plans must show compliance with solar readiness requirements of Washington State Energy Code section C411.
- 28. Final building and engineering plans must show compliance with all ventilation requirements of the International Mechanical Code section 502 as related to the charging and/or storage of battaries.
- 29. HVAC, storefront, and plumbing are required submittals to be included at plan submittal and are not deferable items.

- 30. All proposed signs must comply with the standards of WMC 17.52.080 governing signage in industrial districts, and will require separate sign permit(s).
- 31. It is the applicant's responsibility to make any relevant revisions based on provided engineering comments. Refusal to address concerns brought up within the provided engineering notes, as well as further feedback provided as a part of the Civil review process, may lead to delay of approval as well as increased financial costs. If the applicant believes any comments were made in error, these concerns should be brought up so they can be addressed.
- 32. Applicant shall provide responses acknowledging and responding to (if required) the submitted engineering comments with their submission for Civil Review, and any subsequent review.
- 33. It is the applicant's responsibility to make any relevant revisions and/or acquire any relevant permits based on provided comments from the Department of Ecology.
- 34. Applicant is responsible for submitting a revised site plan alongside proposed final civil engineering plan(s) at Civil Review. Civil review packet should include all documents required to document the applicant's compliance with listed conditions of approval, as well as all revised engineering plans reflecting provided engineering comments. The civil review application can be found: https://www.ci.woodland.wa.us/planning/page/civil-review-submission.

Following final, civil review and engineering approval, submit two (2) copies of full sized and one (1) copy of reduced size $(11^n \times 17^n)$ of the approved civil plans (including the final site plan and landscaping plan). In addition, submit an electronic version of the approved plans including AutoCAD and .pdf formats.

35. Payment shall be made to the City for any outstanding Professional Consulting Services per Woodland Ordinance 1097.

VII. APPEAL PROCEDURE

As per WMC 19.08.020 and 19.08.030, this Notice of Decision may be appealed to the Hearing Examiner within 14 days of the date this decision is issued. The appeal with grounds for appeal in writing shall be submitted to the Community Development Department by 5:00 p.m., June 15th, 2022.

Staff Contact:

David Lukaczer, Associate Planner

City of Woodland

P.O. Box 9

230 Davidson Ave Woodland, WA 98661

lukaczerd@ci.woodland.wa.us

VIII. NEXT STEPS

If there is no appeal to the decision, the applicant may move forward to develop the site.

- Submit final civil plans addressing the conditions above. Include Woodland standard details for water, sewer, erosion control, etc. as required to support the civil design when you submit drawings for final civil approval.
 - a. The details can be found at <a href="https://www.ci.woodland.wa.us/departments/public-publ works/standards.php.
 - b. Submit final civil plans to: https://woodlandwa.seamlessdocs.com/f/civil review
- Once civil plans are approved:
 - a. Upload approved plans to Clark County Fire and Rescue for electronic signature: www.clarkfr.org. Print the plans once signed.
 - b. Contact Public Works to arrange for signature: 360-225-7999. Then, bring plans signed by Clark County Fire and Rescue to Public Works for signature.
 - c. Provide a .pdf to Public Works of signed plan set.
- Submit building, grading, and sign permits online: www.ci.woodland.wa.us/documents/
 - a. Contact Janice Fisher, Permit Technician, for assistance: 360-225-7299.
 - b. Pay any outstanding professional consulting services per Woodland Municipal Code, Ordinance 1097.
- Schedule a pre-construction meeting before beginning any construction activities. Contact Public Works at 360-225-7999 to schedule.
- Install all required landscaping and irrigation prior to applying for final occupancy.
- Submit one full-sized and one copy of reduced size (11" x 17") as-built drawings. In addition, submit a CD/thumb drive containing the as-built drawings in AutoCAD and pdf formats prior to applying for final occupancy.

Date: 5/31/2022 Signature: David Lukarzer, Associate Planner

cc: Applicant

Parties of Record

File

Website

Mayor

City Administrator

ATTACHMENTS

A. Site Plan

Attachment A

Site Plan

11.29% %

0.15% %

0.81% %

0.24% %

27.97% %

3.69% %

55.85% %

100.00% %

3,675 SF

3,125 SF

3,750 SF

4,500 SF

15,050 SF

1,250 SF

15,050.00 SF

200.00 SF

1,080.00 SF

318.00 SF

37,284.00 SF

74,438.60 SF

133,293.60 SF

4,923.00 SF

CONST. DATA **TOXIC HAZARDS**

NOTE: THE PROPOSED ONE STORY STRUCTURE IS SLAB ON GRADE WITH WOOD IF ASBESTOS CONTAINING EXTERIOR CAULK IS TO BE REMOVED OR OTHERWISE STRUCTURAL WALL AND ROOF FRAMING SYSTEM. CONSTRUCTION TYPE V-B. DISTURBED, WORK MUST BE PERFORMED BY QUALIFIED AND TRAINED TYPE OF CONST. (IBC 602.) PROFESSIONALS IN ACCORDANCE WITH APPLICABLE STATE AND FEDERAL V-B SPRINKLERED OFFICE WOOD FRAME REGULATIONS. SCOPE AND CONTRACT FOR ANY ASBESTOS-RELATED WORK SHALL

B, 61

25'-3"

OCCUPANCY: MAX ALLOWABLE:

FLOOR AREA NO BASEMENT 15,050 SF MAIN FLOOR AREA MEZZANÎNE 1,250 SF **STORM WATER**

ONSITE STORM FACILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE OWNER. A COVENANT RUNNING WITH THE LAND IS GRANTED TO THE CITY OF VANCOUVER FOR ACCESS AND THE CITY OF VANCOUVER FOR ACCESS AND FOR ACCESS AND INSPECTION OF THE PRIVATE STORM FACILITIES. **∆**F#.

BE SUBMITTED TO CITY OF VANCOUVER PRIOR TO THE WORK BEING PERFORMED.

INADVERTENT DISCOVERY

IN THE EVENT OF AN INADVERTENT DISCOVERY OF POTENTIALLY SIGNIFICANT ARCHAEOLOGICAL MATERIALS (BONES, SHELL, STONE TOOLS, HEARTHS, ETC) AND/OR HUMAN REMAINS DURING PROJECT ACTIVITIES, ALL WORK IN THE IMMEDIATE VICINITY SHOULD STOP. THE AREA MUST BE SECURED, AND THE DISCOVERY MUST BE REPORTED TO THE DEPARTMENT OF ARCHAEOLOGY AND HISTORIC PRESERVATION (DAHP) (360-586-3065) AND ALL RELEVANT NATIVE AMERICAN TRIBES. IN THE EVENT HUMAN REMAINS ARE IDENTIFIED. LOCAL LAW ENFORCEMENT, THE COUNTY MEDICAL EXAMINER, STATE PHYSICAL ANTHROPOLOGIST AT DAHP (360-586-3534), THE CLARK COUNTY PLANNING OFFICE, AND THE AFFECTED TRIBES SHOULD BE CONTACTED IMMEDIATELY. COMPLIANCE WITH ALL APPLICABLE LAWS PERTAINING TO ARCHAEOLOGICAL RESOURCES (RCW27.53, 27.44 AND WAC 25-48) AND HUMAN REMAINS (RCW 6850) IS REQUIRED.

KEY NOTES

- 1 PROPOSED WAREHOUSE AND OFFICE 2 LOADING BAY
- EV GOLF CART CHARGING STATION WASHING AREA
- CONCRETE PAVING
- TRASH ENCLOSURE STANDARD PARKING

STORIES

HEÌGHT

SITE INFO

APPLICANT:

507870102

JURISDICTION

3050492

13-5N-1W

816 (WOODLAND OUTLOT) -WDOL -289B 13 -5N -1W STRONG DLC, WD12136 LOT 1 EXC

3.06 ACRES

WILSON ARCHITECTS PLLC

ATTN: RUSTY MUYUELA

rusty@wilsonarchitects.us

KALAMA/WOODLAND INDUSTRI

KALAMA/WOODLAND INDUSTRIAL

P: (360) 696-4722

F: (360) 696-0392

PROPERTY OWNER:

610 NW 161ST CIRCLE

RIDGEFIELD, WA 98642

PROPERTY ADDRESS:

WOODLAND, WA 98674

1951 SCHURMAN WAY

PARCEL NUMBER

PROPERTY ID

JURISDICTION

NEIGHBORHOOD

NEIGHBORHOOD

TAX CODE AREA 900

ZONÍNG

SECTION-TOWNSHIP-RANGE

ABBREVIATED PROP REF

WD12136 LOT 2 FEE 3103589.

DOR LAND USE CODE 91 - UNDEVELOPED LAND

SITE PLANE

NEIGHBORHOOD KALAMA/WOODLAND INDUSTRI

DT REALTY LLC

- .1 EV STANDARD PARKING
- 8 ADA PARKING WITH SIGN 9 5' WIDE PEDESTRIAN WALKWAY
- 10 BIOFILTRATION SWALE SEE CIVIL DWG

- DETENTION POND AND BIOFILTRATION SWALE SEE CIVIL DWG 12 SHARED DRÌVEWAY
- 13 LANDSCAPE AREA 14 TRANSFORMER PAD SEE ELECT DWG
- 15 MECH EQUIP PAD SEE MECH DWG
- 16 LOADING AREA

WOODLAND MUNICIPAL CODE SITE AREA

SITE AREA CALCULATION

TRASH ENCLOSURE

PEDESTRIAN WALKWAY

INTERIOR LANDSCAPE

MECH/ELECT PAD/APPRON

PERIMETER LANSCAPE AREA

WAREHOUSE/WORK AREA

WAREHOUSE/EV STATION

BUILDING FOOTPRINT/COVERED SHED ROOF

LOT AREA

PAVING

OFFICE

TOTAL AREA

BUILDNG AREA

ROOF SHED AREA

MEZZANINE FLOOR

TOTAL AREA

APPROXIMATE AREA INFO : (3.06 ACRES) CHAPTER 17.44 - LIGHT INDUSTRIAL DISTRICT (1-1) 45 FT MAXIMUM HT 1-1 USE BUILDINGS (MAXIMUM HT) 1-1 USE BUILDINGS (MAXIMUM HT) 55 FT MORE THAN FIFTY-FIVE FEET TO EAVE HEIGHT. 17.44.070 - BUILDING SETBACKS. 10 FT FRONT SETBACK 25 FT SIDE YARD MINIMUM 25 FT

REAR SETBACK LOT COVERAGE: NO LOT COVERAGE LIMITATIONS

17.44.100 - OFF-STREET PARKING AND LOADING.

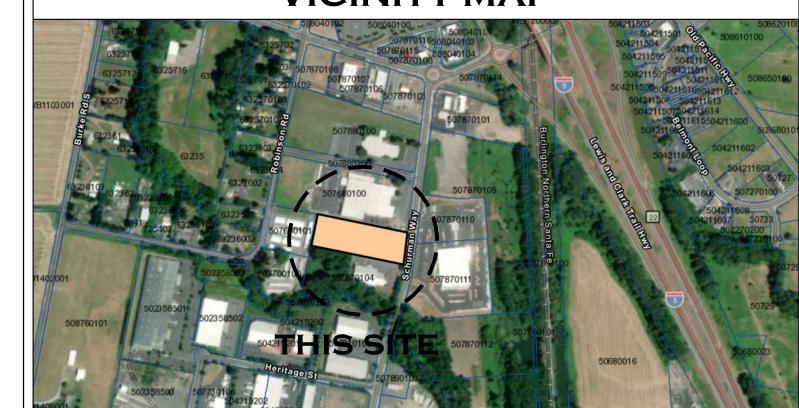
17.44.133 - LANDSCAPING PLAN REQUIREMENTS.

17.44.136 - LANDSCAPE DESIGN AND SCREENING REQUIREMENTS. PER LANDSCAPE PLAN - L1.1

PARKING REQUIREMENT CHAPTER 17.56 - OFF-STREET PARKING AND LOADING REQUIREMENTS OFFICE: 1:200 SF GROSS STORAGE AND WAREHOUSING:

17.56.160 - ELECTRIC VEHICLE CHARGING STATION SPACES.

VICINITY MAP



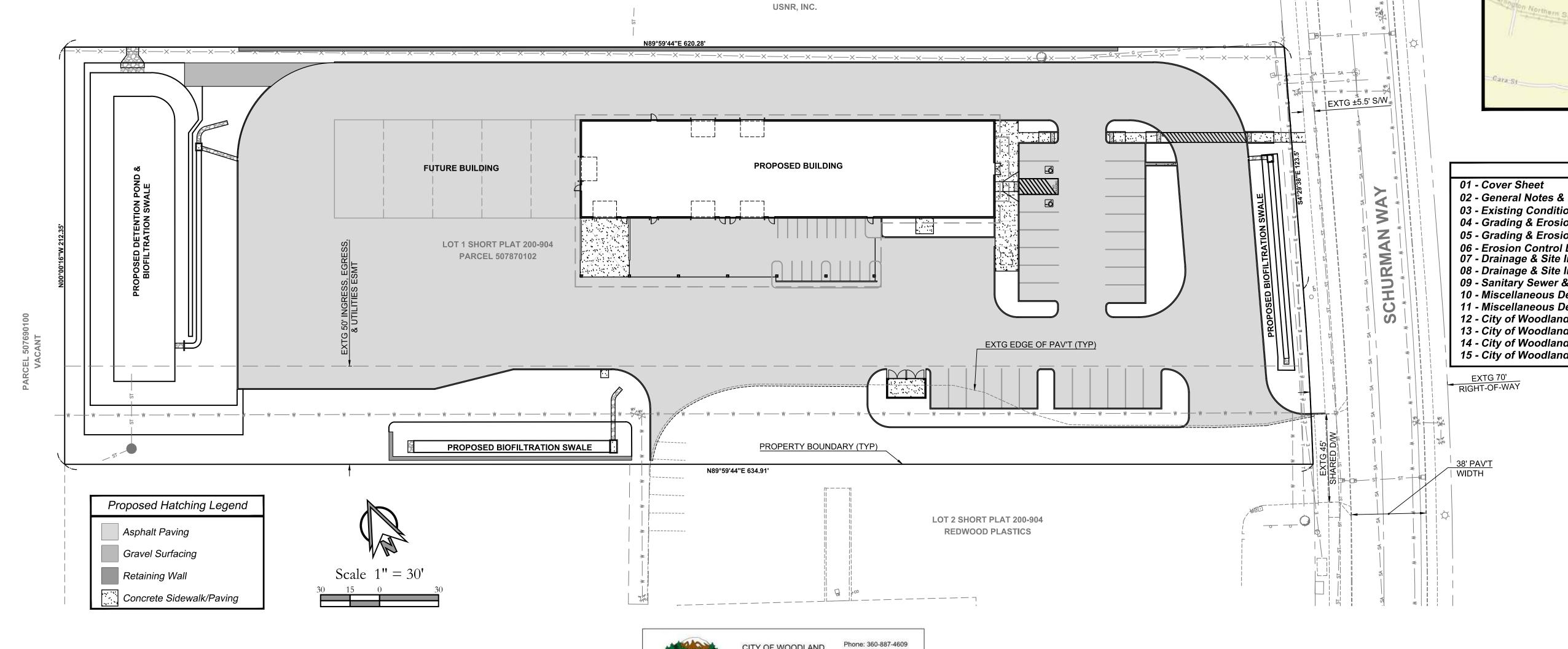
±262'-2 1/2" 211'-0" 20'-6" | 24'-0" | 20'-0" 70'-10" LOT 1 50' EASEMENT FOR EGRESS' & UTILITY 20' SETBACK

Project No. 3405 SCALE: H: 1" = 30' V: N/A DESIGNED BY:

DRAFTED BY: REVIEWED BY:

Dawkins Warehouse

Located in the NW 1/4 of Section 13 T5N, R1W, W.M. City of Woodland, Washington



PARCEL 507680100

CITY OF WOODLAND PO Box 9 / 230 Davidson Woodland, WA 98674 www.ci.woodland,wa.us Permit Number: Fire Chief or Designee

CITY OF WOODLAND Phone: (360) 225-7999 UBLIC WORKS DEPARTMENT Fax: (360) 225-7467 PO Box 9 - 300 E Scott Ave Woodland, WA 98674 www.ci.woodland.wa.us Plans Reviewed for Compliance with City Standards and Policies Permit Number: Recommended for Approval: Public Works Director Date Improvement Summary Street Improvements Water Main Footage Sewer Main Footage Septic System Decommission Trenching with City Right-of-Way Total Impervious Surface Private Impervious Surface Cut 524* CY Fill 4,782* CY

*Grading quantities provided are gross volumes between existing grade & proposed finish grade with no adjustments for strippings, imported rock and asphalt, compaction factors, trench spoils, or other construction factors.



Project Benchmark is a 9/16" stainless steel rod with datum point, sleeve, and Cowlitz County GIS Department access cover stamped "Dike Access 1993". Access benchmark by taking Exit 22 from I-5, go easterly 0.1± mile to gravel road left, turn left and go northerly on the gravel road 0.10 miles to the station on the left. Benchmark elevation 38.205, NAVD 88.

A minimum of 2 full working days and a maximum of 10 working days prior to beginning construction, the Contractor shall call 1-800-553-4344 (Northwest Utilities Notification Counter) for location mark-up of existing utilities.

All work in City right-of way will conform to the requirements of the City of Woodland. A right-of-way permit from the City will be required prior to work in the right-of-way.

All site grading and erosion control, construction, materials and workmanship shall conform to the Engineering Standards of the City of Woodland and the latest edition of the "Standard Specifications for Road, Bridge, and Municipal Construction" as prepared by WSDOT/APWA.

Any archaeological findings shall be immediately (within 24 hours) reported to the City Planning Department and any state agency required by Washington State law. Construction in the vicinity of the findings shall be ceased immediately and the findings shall be protected from outside intrusion.

A pre-construction conference shall be held prior to the start of construction.



VICINITY MAP NOT TO SCALE

Sheet Index 02 - General Notes & Legend 03 - Existing Conditions 04 - Grading & Erosion Control Plan (West) 05 - Grading & Erosion Control Plan (East) 06 - Erosion Control Details 07 - Drainage & Site Improvement Plan (West) 08 - Drainage & Site Improvement Plan (East) 09 - Sanitary Sewer & Water Plan 10 - Miscellaneous Details 11 - Miscellaneous Details 12 - City of Woodland Standard Transportation & Drainage Details

13 - City of Woodland Standard Water Details
14 - City of Woodland Standard Water Details

15 - City of Woodland Standard Sewer Details

GENERAL INFORMATION:

<u>Applicant:</u> Wilson Architects PLLC Attn: Ryan Wilson 404 E 15th St. #7 Vancouver, WA 98663 Phone: (360) 696-4722 Fax: (360) 696-0392 Email: Ryan@WilsonArchitects.us

Civil Engineer PLS Engineering, **Andrew Gunther** 604 W Evergreen Blvd. Vancouver, WA 98660 Ph. (360) 944-6519 Fax (360) 944-6539

e-mail: Andrew@PLSengineering.com Owner/Developer: Pacific Golf and Turf LLC Mark Dawkins 14625 SE Stark St.

Portland, OR 97233

kin

Revisions						
	1	2	3	4	5	9

SCALE: H: N/A V: N/A DESIGNED BY: ORAFTED BY: REVIEWED BY:

Project No. 3405

GENERAL NOTES

Existing utilities shown on the plans are based on information from the project topographic survey and no guarantee is implied as to location accuracy and the existence or nonexistence of other utilities. Contractor shall field locate all existing utilities prior to construction.

All construction, materials, and workmanship shall conform to the latest edition of "Standard Specifications for Road, Bridge and Municipal Construction" prepared by WSDOT/APWA, and the standards and practices of the City of **Woodland Department of Public Works.**

All pavement shall be straight cut prior to paving. Existing pavement shall be removed as necessary to provide a smooth transition for both ride and drainage.

Any existing utilities or paving damaged in the course of completing the construction shall be repaired at the contractor's expense.

Contractor shall report all damages immediately to the project engineer at (360) 944-6519 or contact the inspector on the job. Any damage to structures in the public right-of-way will need to be repaired to City of Woodland Transportation standards.

A minimum of 48 hours prior to beginning construction, the Contractor shall call 1-800-424-5555 (Utility Coordinating Council) for location mark-up of existing utilities.

There are no known wells or septic systems on site. Should any be encountered during construction, they shall be properly abandoned in accordance with Cowlitz County Public Health and Washington State Department of Ecology requirements.

The contractor shall keep a legible approved set of plans on the project site at all times.

The contractor shall perform all work necessary to complete this project in accordance with the plans including such incidentals as may be necessary to meet applicable agency requirements.

The contractor shall maintain full compliance with all safety and pollution regulations as applicable to the project including compliance with the inspection and reporting requirements of the Construction Stormwater NPDES permit issued by the Washington Department of Ecology for this project.

Disprepancies between these drawings and actual field conditions should be reported to the engineer who will address the resolution of such discrepancies. Work done by the contractor after discovery of discrepancies is completed at the contractor's risk.

Any significant deviations from the plans will require a request from the applicant's engineer and approval by the City's engineer.

The applicant may be required to provide flagging, signs, and other traffic control devices for safe truck access onto public streets. All such devices shall conform to the standards established in the latest adopted edition of the "Manual on Uniform Traffic Control Devices"(MUTCD) published by the U.S. Department of Transportation and the Modifications to the MUTCD for Streets and Highways for the State of Washington.

If any cultural resources are discovered in the course of undertaking a development activity, construction shall stop immediately and the Office of Archeology and Historic Preservation in Olympia and the City of Woodland Public Works department shall be notified. Failure to comply with these requirements may constitute a Class C felony, subject to imprisonment and/or fine.

The property owner/developer shall be responsible for obtaining all applicable permits including but not limited to permits for hydrostatic tests and dewatering discharges prior to commencing construction.

A preconstruction conference is required with the City of Woodland Public Works before utility or site construction begins.

See the detail sheets in this plan set for additional standard City of Woodland construction notes and requirements.

SITE GRADING AND PAVING

The contractor shall review and follow the recommendations in the Geotechnical Engineering Study dated June 17th, 2011, prepared specifically for this site by Geotechnical & Environmental Services Inc. The report includes requirements for stripping, scarification of the till zone, structural fill materials and compaction requirements, building pad preparation, and other construction elements.

Site grading activities should be performed in accordance with requirements specified in the 2021 International Building Code (IBC), Chapter 18 and Appendix J, subject to any exceptions identified by the project geotechnical engineer or identified in the site-specific geotechnical report.

All excavations should be made in accordance with applicable Federal and State Occupational Safety and Health Administration regulations.

Site preparation, soil stripping, and grading activities should be observed and documented by an experienced geotechnical engineer or designated representative. Imported materials shall be approved by the geotechnical engineer prior to their use as fill material.

Finished subgrade conditions shall be approved by the project geotechnical engineer prior to the placement of any fill materials. Method of subgrade approval shall be at the discretion of the geotechnical engineer and may require a loaded dump truck for performance of a proof-roll.

SITE GRADING AND PAVING (CONTINUED)

Fill areas shall be structurally filled with surplus suitable materials from cut areas or imported structural fill. Select materials shall be placed in fill areas in lifts not to exceed 8" (compacted depth of lift). Each lift shall be compacted per the recommendations of the geotechnical report. Fill materials should be free of organics, and rock fragments in excess of 6" in dimension.

All compaction work shall be done per the geotechnical engineer's recommendations.

For general site grading; contour lines, spot elevations and general drainage flow defined by slopes and swales have been shown. The elevations shown are minimum elevations required to promote drainage in a controlled drainage pattern. Any deviation from this grading plan shall first be coordinated with the Engineer.

Contractor shall comply with all City of Woodland requirements such as; maintaining and/or updating the erosion control plan as necessary to control site erosion, providing a schedule of construction operations and any other pertinent data relative to site earth work.

At the end of the grading operation, the stockpiled strippings shall be distributed on the landscape areas in a compacted depth not to exceed 12".

All deleterious materials generated during site grading and strippings not utilized in the final ground cover operation shall be hauled from the site to a contractor provided legal and permitted waste/dump site unless otherwise agreed upon with the

All surfaces shall be graded smooth and free of irregularities that might accumulate surface water unless otherwise indicated on the grading and/or stormwater plans.

All grading operations and disturbed surface stabilization shall be in accordance with the project Grading & Erosion Control Plan.

The contractor shall remove all silt and debris resulting from this work which has been deposited in drainage facilities, roadways and other areas immediately after each rainfall event. The cost incurred for any necessary remedial action shall be payable by the contractor.

Best management practices (BMP) shall be employed at all times to the maximum extent practicable to prevent damage by sedimentation, erosion or dust to streams, water courses, natural areas and the property of others.

STORM SEWERS

Storm pipes shall be the size identified on the plans and shall be installed at the slope and elevation specified.

Materials for storm sewer pipes and rain drain piping shall be Corrugated Polyethylene Storm Sewer Pipe per WSDOT Specifications Section 9-05.20, except where otherwise specified as ductile iron or PVC C-900 pipe due to reduced cover conditions.

Trench excavation shall meet the requirements of the City of Woodland Public Works **Engineering Standards for Construction.**

On-site (private) storm sewer pipe bedding and backfill shall comply with Woodland details D-15 and D-16 on sheet 12 unless alternate bedding and/or backfill materials are approved by the project geotechnical engineer.

The stormwater facilities shall be privately owned and maintained.

Storm catch basins shall be fitted with an approved trap per the detail sheet 11.

The approximate location of roof drain downspouts and piping based on preliminary architectural drawings is shown on the plans. The contractor shall coordinate the exact location of roof drains with the project plumbing and/or building plans. Cleanouts shall be installed on all roof drain piping as required to comply with the Plumbing Code.

EROSION AND SEDIMENT CONTROL

Approval of this Erosion and Sediment Control (ESC) plan does not constitute an approval of permanent road or drainage design.

The implementation of these ESC plans and the construction, maintenance, replacement, and upgrading of the ESC facilities is the responsibility of the contractor until all construction is completed and approved, and vegetation is established.

The ESC facilities shown on this plan must be constructed in conjunction with all clearing and grading activities, and in such a manner as to ensure that sediment and sediment laden water do not enter the drainage system or roadways or violate applicable water standards.

Care should be taken to not disturb more area than needed for construction requirements. All disturbed soils surfaces are to be stabilized. Stabilization of disturbed soil areas will consist of: hydroseeding or handseeding, mulching, placing of erosion control blankets or plastic in landscaping soil areas. It will also consist of paving and concrete work in driving, parking and sidewalk areas. All seeded areas are to be fertilized, watered and maintained to enhance the immediate regrowth of vegetation.

Material stockpiles are to be protected from precipitation by the following means: Temporary - cover piles with tarps or plastic sheeting weighted with tires, lumber or concrete blocks.

 Permanent - cover piles with tarps or plastic, or reseed. Perimeter areas around piles are to be surrounded with erosion control filter fabric fences until soils surface is stabilized with reseeding.

EROSION AND SEDIMENT CONTROL (CONTINUED)

The ESC facilities shall be inspected daily by the contractor and maintained as necessary to ensure continuous functioning. Inspection and maintenance shall include, but not be limited to:

- Removal of trapped silts at silt barriers, silt traps, or points of accumulation. Additional protective measures, as required, due to job site conditions.
- Monitoring of vehicles leaving the site to minimize transmission of loose soils to the adjacent public roadways and private pavement areas. The contractor shall actively work to minimize travel between unstabilized areas and adjacent road and parking areas to minimize the likelihood of sediment transport to existing paved surfaces.

If sediment is transported onto a paved surface, the surface is to be cleaned thoroughly at the end of each day during dry weather and immediately during rain events.

The ESC facilities on inactive sites shall be inspected and maintained a minimum of once a month or within the 24 hours following a storm event.

At no time shall more than one foot of sediment be allowed to accumulate within a trapped catch basin. All catch basins and conveyance lines shall be cleaned prior to paving. The cleaning operation shall not flush sediment laden water into the downstream system.

This sedimentation and erosion control plan is intended to be utilized as a guide to control the transportation of loose soils from the property that cause water quality and nuisance problems outside of the construction area.

Depending upon the Contractor's construction practices, some portions of the proposed erosion control plan may be varied according to the job site condition. All changes to the plan must be reviewed and approved by the Engineer prior to adjustment.

See sheet 06 for the City's standard erosion control notes which also apply to this project.

SANITARY SEWER CONSTRUCTION NOTES

Sanitary sewer laterals shall be 6" in size, installed at a minimum slope of 0.01 ft/ft unless otherwise noted. Materials shall be ASTM D3034.

Prior to backfilling sewer service lateral ends, the Contractor shall notify the engineer in a timely manner so that construction "Record Drawing" information may be gathered. If the Contractor backfills prior to the gathering of required information, the Contractor shall be required to expose the ends of service laterals and sewer main cleanouts.

Bedding and backfill for sanitary sewer construction shall be per City of Woodland Standard Detail S-02.

See the sheet 15 for additional City of Woodland Standard Sewer notes.

WATER SYSTEM CONSTRUCTION NOTES

Water system construction, materials, and workmanship for pipes 4" diameter and larger shall conform to the "2022 Standard Specifications for Road, Bridge & Municipal Construction" prepared by the WSDOT/APWA, and the City of Woodland Public Works Engineering **Standards for Construction.**

The contractor is responsible for verifying size, location, and material of all existing utilities prior to construction and notifying the engineer of discrepancies affecting the constructibility of the design.

Private water service line construction and materials shall be compliant with the latest version of the International Plumbing Code.

Minimum pipe cover shall be 36" for all waterlines.

Pipe bedding and backfill for waterlines shall be completed per the City of Woodland standard detail W-13 on sht 14.

The City of Woodland Public Works Department shall be notified 24 hours in advance of making connection to the existing water system.

Thrust blocks shall be poured against firm, undisturbed soils. If there are any locations on this site where it is not feasible to pour the thrust block against undisturbed soils, then the thrust blocks shall be supplemented or replaced by the use of restrained joints.

All mechanical joint fittings shall include Megalug or approved equal restraints.

All valve boxes, cleanouts, etc. shall be adjusted to finish grade.

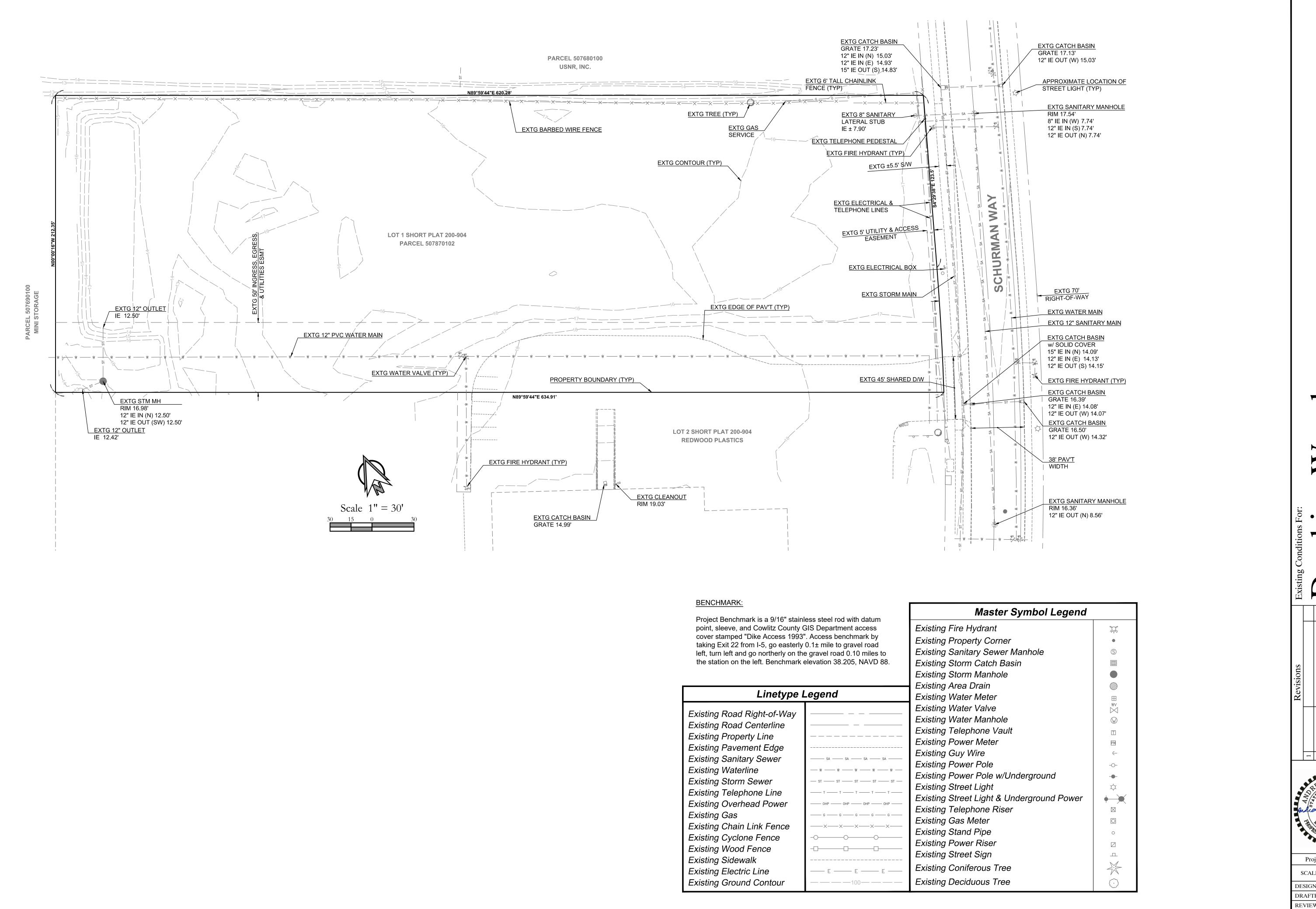
Location of connections of water lines to the building plumbing system should be considered approximate. The contractor shall coordinate actual connection locations with the building plumbing plans.

DCVA's shall be selected from the Washington State Department of Health's approved list of backflow prevention devices.

See the sheet 13 for additional City of Woodland Standard Water notes.

Master Symbol Legend

			Existing Fire Hydrant	\$
			Existing Property Corner	•
			Existing Sanitary Sewer Manhole	(<u>\$</u>)
			Existing Storm Catch Basin	
	l in aturn a l		Existing Storm Manhole	
	Linetype L	.egena	Existing Area Drain	
	Existing Road Right-of-Way		Existing Water Meter	Ħ
	Existing Road Centerline		Existing Water Valve	₩V ▷×┐
	Existing Property Line		Existing Water Manhole	Ŵ
	Existing Pavement Edge		Existing Telephone Vault	
	Existing Sanitary Sewer	<u></u>	Existing Power Meter	PM
	Existing Waterline	***************************************	Existing Guy Wire	\leftarrow
	Existing Storm Sewer	***************************************	Existing Power Pole	-0-
	Existing Telephone Line		Existing Power Pole w/Underground	
	Existing Overhead Power		Existing Street Light	\$
	Existing Gas		Existing Street Light & Underground Power	+
	Existing Chain Link Fence		Existing Telephone Riser	
	Existing Cyclone Fence		Existing Gas Meter	
	Existing Wood Fence		Existing Stand Pipe	0
	Existing Sidewalk		Existing Power Riser	
	Existing Electric Line		Existing Street Sign	Ф
	Existing Ground Contour	100	Existing Coniferous Tree	
	Proposed Property Line		Existing Deciduous Tree	\odot
	Proposed Storm Line		Proposed Sanitary Cleanout	0
Proposed Hatching Legend	Proposed Rain Drain	RD RD RD	Proposed Water Meter	⊡
	Proposed Sanitary Lateral		Proposed Water Double Check Valve	_
Asphalt Paving	Proposed Water Pipe		Proposed Fire Hydrant	>
Gravel Surfacing	Proposed Water Service		Proposed Area Drain	•
Potaining Well	Proposed Curb		Proposed Storm Cleanout	•
Retaining Wall	Proposed Edge of Pavement		Proposed Roof Down Spout	•
Concrete Sidewalk/Paving	Proposed Contour	100	Proposed Storm Catch Basin	





Project No. 3405 SCALE: H: 1'' = 30'V: N/ADESIGNED BY: DRAFTED BY:

REVIEWED BY:

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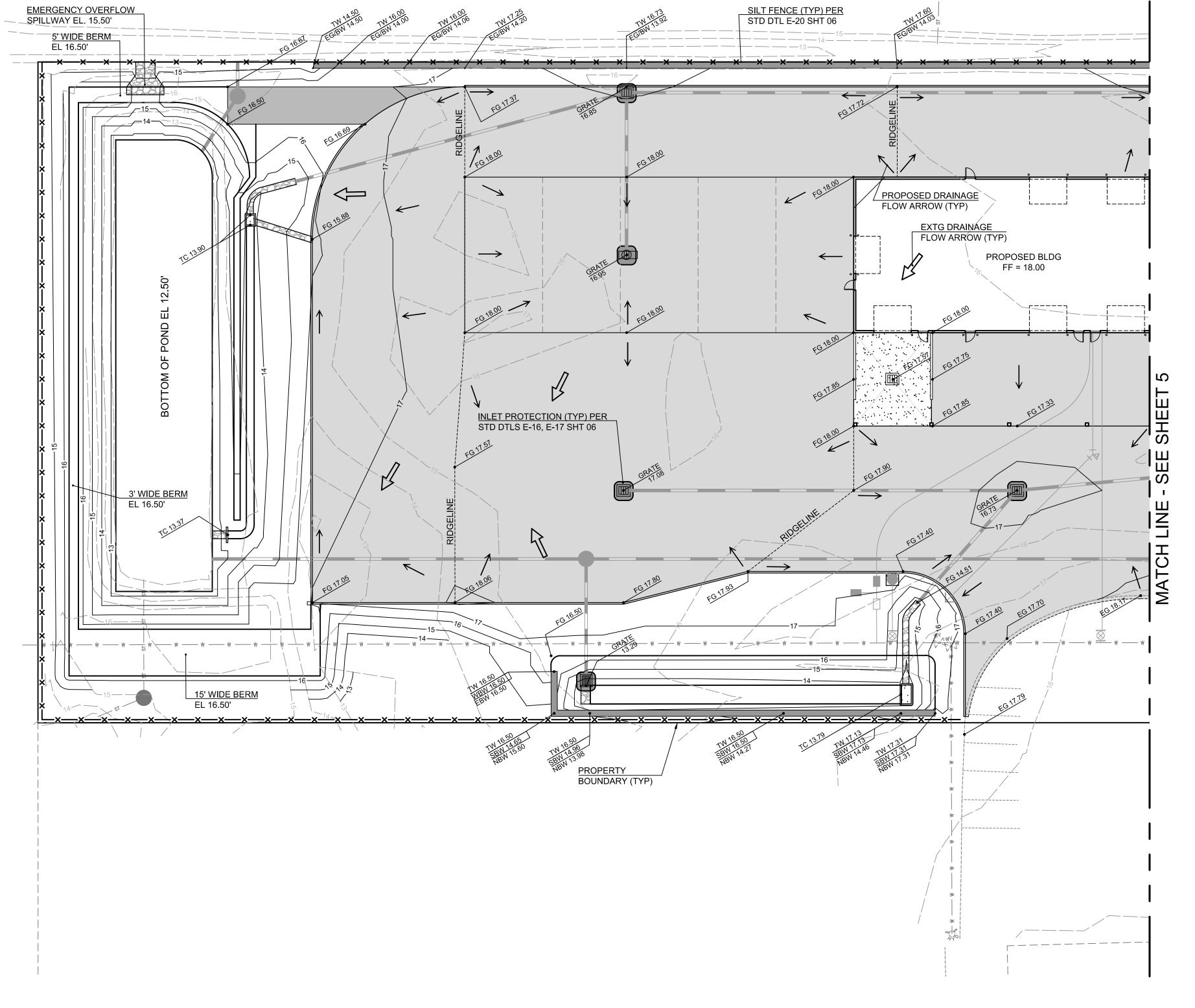
Project No. 3405

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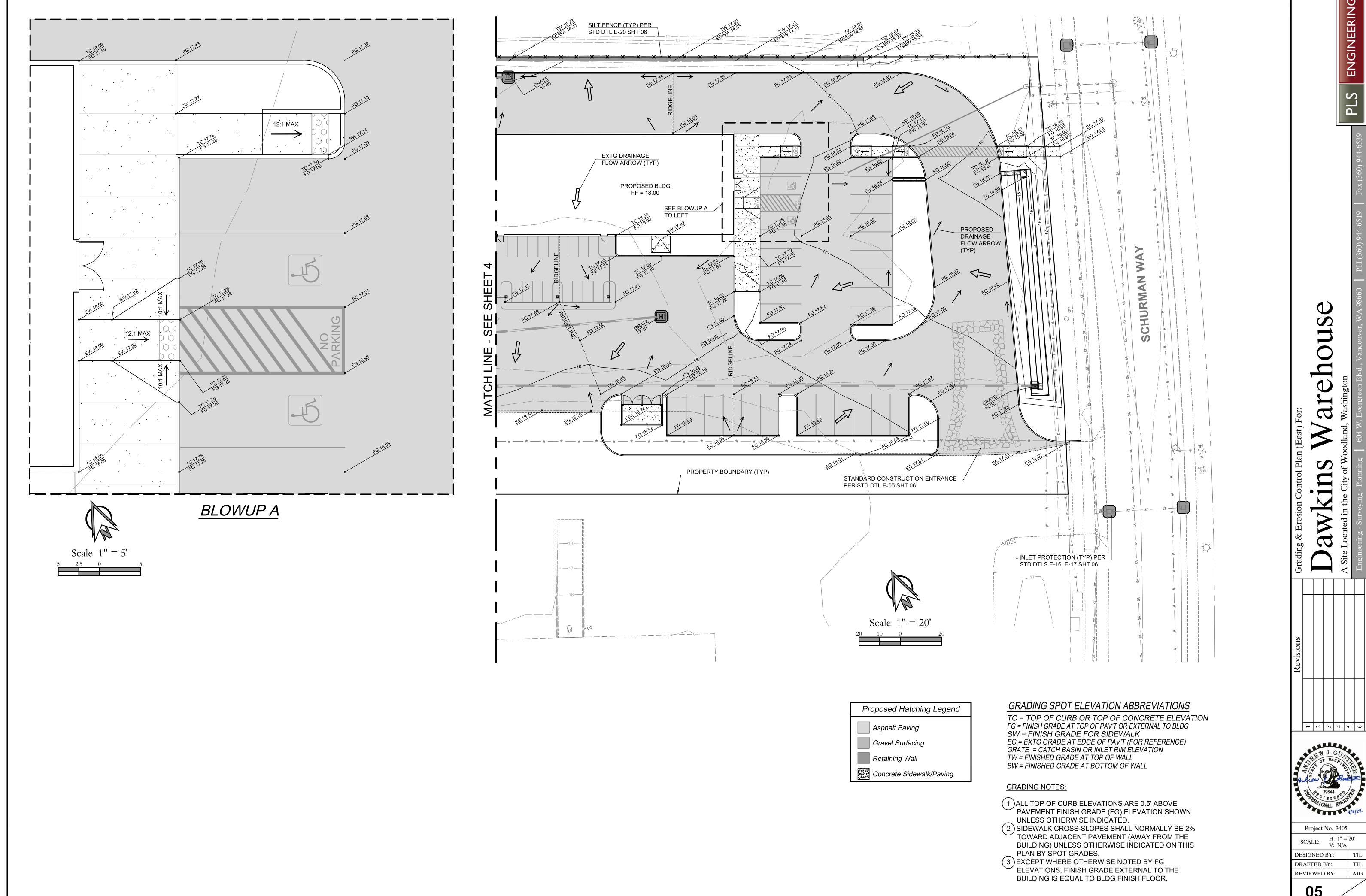


GRADING SPOT ELEVATION ABBREVIATIONS

TC = TOP OF CURB OR TOP OF CONCRETE ELEVATION
FG = FINISH GRADE AT TOP OF PAV'T OR EXTERNAL TO BLDG
SW = FINISH GRADE FOR SIDEWALK
EG = EXTG GRADE AT EDGE OF PAV'T (FOR REFERENCE)
GRATE = CATCH BASIN OR INLET RIM ELEVATION
TW = FINISHED GRADE AT TOP OF WALL
BW = FINISHED GRADE AT BOTTOM OF WALL
NBW = FINISHED GRADE AT BOTTOM OF WALL ON NORTH SIDE
EBW = FINISHED GRADE AT BOTTOM OF WALL ON EAST SIDE
SBW = FINISHED GRADE AT BOTTOM OF WALL ON SOUTH SIDE
WBW = FINISHED GRADE AT BOTTOM OF WALL ON WEST SIDE

GRADING NOTES:

- 1 ALL TOP OF CURB ELEVATIONS ARE 0.5' ABOVE PAVEMENT FINISH GRADE (FG) ELEVATION SHOWN UNLESS OTHERWISE INDICATED.
- 2 SIDEWALK CROSS-SLOPES SHALL NORMALLY BE 2% TOWARD ADJACENT PAVEMENT (AWAY FROM THE BUILDING) UNLESS OTHERWISE INDICATED ON THIS PLAN BY SPOT GRADES.
- 3 EXCEPT WHERE OTHERWISE NOTED BY FG ELEVATIONS, FINISH GRADE EXTERNAL TO THE BUILDING IS EQUAL TO BLDG FINISH FLOOR.



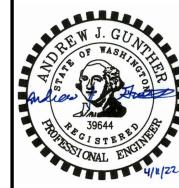
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Project No. 3405

3' MAX

SIDE VIEW

DESIGNED



Project No. 3405 SCALE: V: N/A DESIGNED BY:

ORAFTED BY: REVIEWED BY:

GENERAL EROSION PREVENTION & SEDIMENT CONTROL NOTES

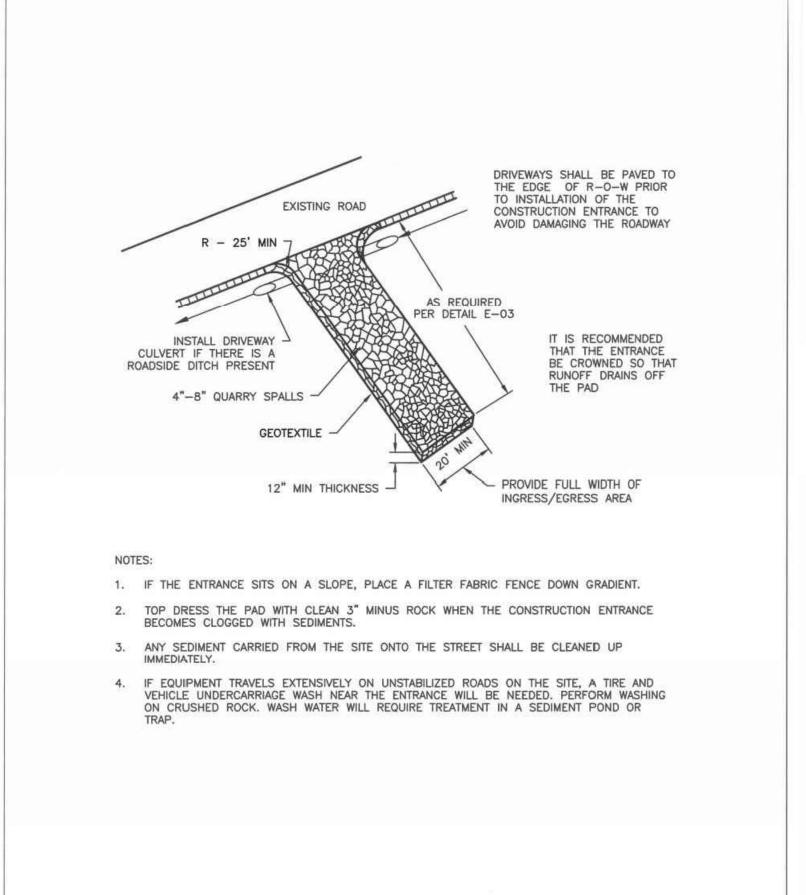
- 1. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE IN PLACE AND IN WORKING CONDITION PRIOR TO ANY LAND DISTURBING ACTIVITY CAUSED BY CLEARING OR GRADING. EROSION AND SEDIMENT CONTROL MEASURES SHALL BE APPROVED BY THE CITY EROSION CONTROL SPECIALIST PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL CALL FOR AN ON-SITE INSPECTION WHEN EROSION AND SEDIMENT CONTROL MEASURES ARE IN PLACE
- 2. THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SITED, DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE REQUIREMENTS IN THE CITY OF WOODLAND'S LATEST STANDARD DETAILS AND THE WASHINGTON STATE DEPARTMENT OF ECOLOGY STORMWATER MANUAL FOR WESTERN WASHINGTON, WHERE THE CITY OF WOODLAND GENERAL REQUIREMENTS SHALL TAKE PRECEDENCE.
- 3. THE DEVELOPER IS RESPONSIBLE FOR MAINTAINING EROSION PREVENTION AND SEDIMENT CONTROL MEASURES DURING AND AFTER INSTALLATION OF ALL UTILITY WORK ASSOCIATED WITH UTILITY TRENCHES.
- 4. PRIOR TO ANY SITE EXCAVATION, ALL STORM DRAINAGE INLETS SHALL BE PROTECTED DOWN SLOPE FROM ANY DISTURBED OR CONSTRUCTION AREAS PER THE
- STANDARD DETAILS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAINAGE SYSTEM PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREAS, CLEAN THE FILTER FABRIC AS NECESSARY TO MAINTAIN DRAINAGE. REMOVE FILTER AND CLEAN CATCH BASINS FOLLOWING COMPLETION OF SITEWORK.
- 5. THE CONTRACTOR SHALL NOT ALLOW SEDIMENT OR DEBRIS TO ENTER NEW OR EXISTING PIPES, CATCH BASINS OR INFILTRATION SYSTEMS. 6. NEWLY CONSTRUCTED OR MODIFIED INLETS AND CATCH BASINS ARE TO BE PROTECTED IMMEDIATELY UPON INSTALLATION.
- 7. TEMPORARY SEEDING AND MULCHING OF FILL SLOPES AND DIVERSION DIKES SHALL BE COMPLETED WITHIN ONE WEEK AFTER ROUGH GRADING.
- 8. ALL EXPOSED AND UNWORKED SOILS SHALL BE STABILIZED BY THE APPROPRIATE BEST MANAGEMENT PRACTICES (BMPs). DURING THE PERIOD FROM OCTOBER 1 TO APRIL 30 NO SOIL SHALL BE EXPOSED FOR MORE THAN TWO (2) DAYS. FROM MAY 1 TO SEPTEMBER 30 NO SOIL SHALL BE EXPOSED FOR MORE THAN
- 9. MATERIAL STOCKPILES ARE TO BE PROTECTED BY THE FOLLOWING MEANS:
 TEMPORARY: COVER PILES WITH TARPS OR PLASTIC SHEETING WEIGHTED WITH CONCRETE BLOCKS, LUMBER OR TIRES.
 PERMANENT: COVER PILES WITH TARPS OR PLASTIC, OR RESEED. PERIMETER AREAS AROUND PILES ARE TO BE SURROUNDED WITH EROSION CONTROL FILTER FABRIC FENCES UNTIL SOIL SURFACE IS STABILIZED WITH RESEEDING.
- 10. THE CONTRACTOR SHALL MAINTAIN ON SITE A WRITTEN DAILY LOG OF EROSION CONTROL BMP MAINTENANCE.
- 11. IF THE CITY INSPECTOR OR ENGINEER(S) HAS EVIDENCE OF POOR CONSTRUCTION PRACTICES OR IMPROPER EROSION PREVENTION BMPs, CITATIONS AND/OR A STOP WORK ORDER SHALL BE ISSUED UNTIL PROPER MEASURES HAVE BEEN TAKEN AND APPROVED BY THE CITY OF WOODLAND. IF THE BMPs APPLIED TO A SITE ARE INSUFFICIENT TO PREVENT SEDIMENT FROM REACHING WATER BODIES, ADJACENT PROPERTIES, OR PUBLIC RIGHT—OF—WAY, THEN THE PUBLIC WORKS DIRECTOR SHALL REQUIRE ADDITIONAL BMPs.

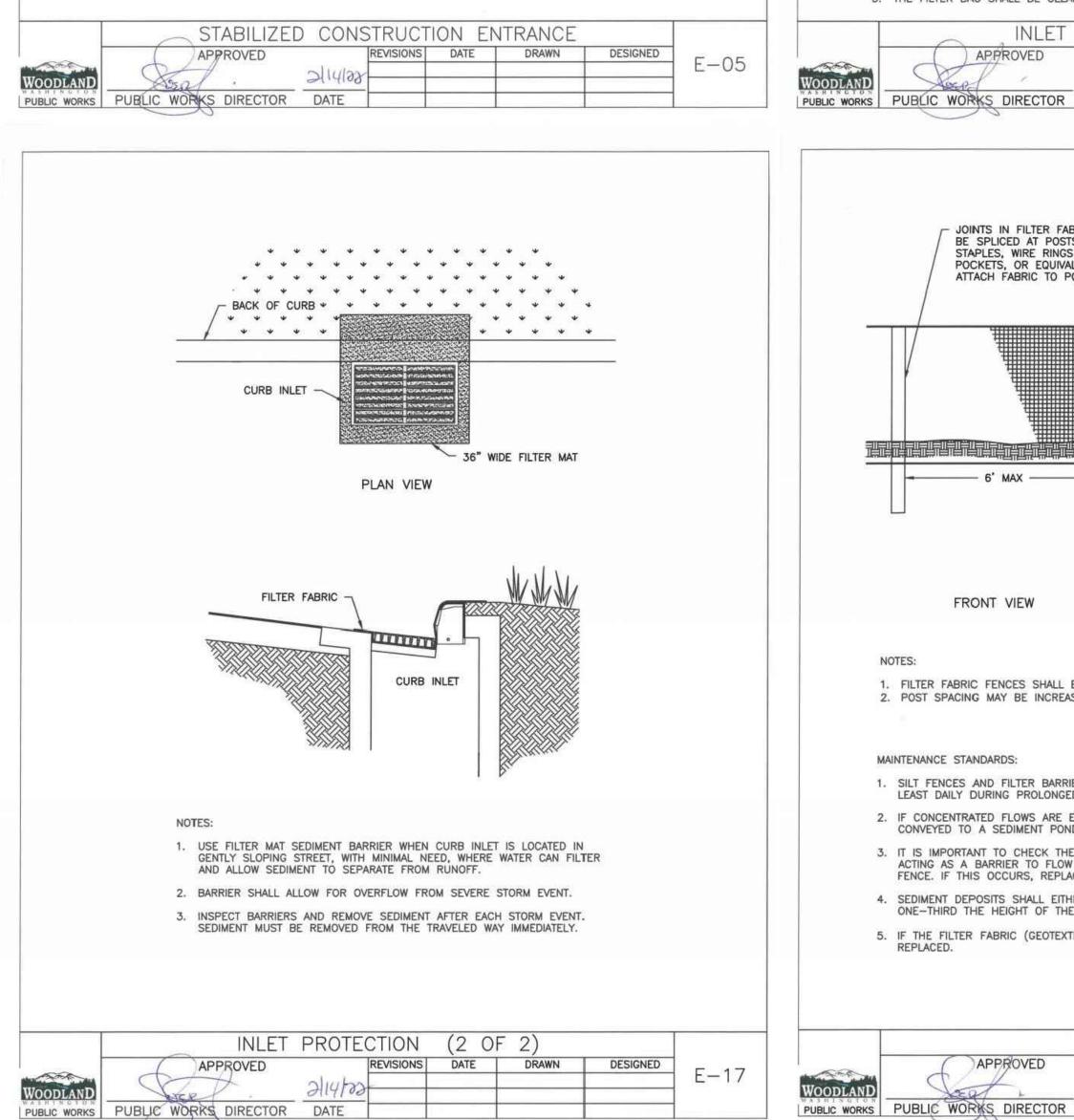
PROTECTION OF ADJACENT PROPERTIES, ROADS AND STREETS

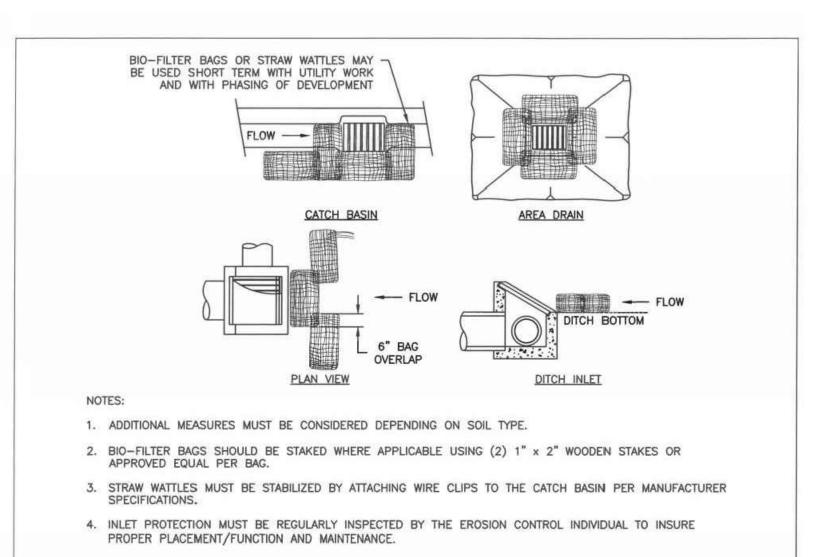
RESEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.

- 12. PROVIDE A 12-INCH DEEP PAD OF CRUSHED ROCK FOR A DISTANCE OF 100 FEET INTO THE SITE FOR ALL ACCESS POINTS UTILIZED BY CONSTRUCTION EQUIPMENT AND TRUCKS, WIDTH OF THE PAD SHALL BE A MINIMUM OF 20 FEET. ALL TRUCKS LEAVING THE SITE SHALL EGRESS ACROSS THE PAD. ACCUMULATED SOIL SHALL BE PERIODICALLY REMOVED, OR ADDITIONAL ROCK SHALL BE PLACED UPON THE PAD SURFACE. ROCK SHALL BE CLEAN 4 INCH TO 8 INCH QUARRY SPALLS, ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE
- 13. PAVEMENT SWEEPING AND SHOVELING IS REQUIRED. WASHING THE PAVEMENT INTO THE STORM SYSTEM IS NOT PERMITTED.
- 14. AT SITES WITH LESS THAN 1 ACRE OF EXPOSED SOIL, PAD LENGTH MAY BE REDUCED TO 50 FEET. SINGLE FAMILY LOT ENTRANCES MAY HAVE THE PAD LENGTH REDUCED TO 20 FEET, IF CONSTRUCTION OCCURS SIMULTANEOUSLY ON ADJACENT LOTS WITH THE SAME OWNER DURING CONSTRUCTION, ONE LOT ENTRANCE MAY BE USED FOR THE ADJACENT LOTS.
- 15. INSTALL SEDIMENT FENCE IN ACCORDANCE WITH THIS DETAIL SHEET PRIOR TO BUILDING CONSTRUCTION AND/OR EXCAVATION TO PREVENT SILT INTRUSION UPON ADJACENT LOTS. IF CONSTRUCTION OCCURS SIMULTANEOUSLY ON ADJACENT LOTS AND THE LOTS HAVE THE SAME OWNER DURING CONSTRUCTION, THE SILT FENCE ALONG THE COMMON LOT LINE MAY BE ELIMINATED.
- 16. CONSTRUCTION ROADS AND PARKING AREAS SHALL BE STABILIZED WHEREVER THEY ARE CONSTRUCTED, WHETHER PERMANENT OR TEMPORARY, FOR THE USE OF CONSTRUCTION TRAFFIC. MAINTENANCE OF SEDIMENT CONTROL BMPs
- 17. MAINTAIN AND REMOVE ALL SEDIMENT CONTROLS AS SPECIFIED IN THE STANDARD DETAILS. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS, DRYWELLS, UTILITY TRENCHES AND STORM PIPES PRIOR TO ACCEPTANCE BY THE CITY.
- 18. SEDIMENT CONTROL BMP8 SHALL BE INSPECTED WEEKLY AND AFTER ANY STORM EVENT PRODUCING RUNOFF. THE INSPECTION FREQUENCY FOR STABILIZED, INACTIVE SITES SHALL BE ONCE EVERY TWO WEEKS OR MORE FREQUENTLY AS DETERMINED BY THE LOCAL PERMITTING AUTHORITY BASED ON THE LEVEL OF SOIL STABILITY AND POTENTIAL FOR ADVERSE ENVIRONMENTAL IMPACTS.
- 19. ALL TEMPORARY EROSION PREVENTION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER SITE STABILIZATION IS ACHIEVED OR AFTER TEMPORARY BMPs ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
- 20. IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST ONE OR MORE OF THE FOLLOWING PREVENTATIVE MEASURES SHALL BE TAKEN FOR DUST
- A. MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES.
 B. SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET.
 C. SPRAY EXPOSED SOIL AREAS WITH A DUST PALLIATIVE. NOTE: USE OF PETROLEUM PRODUCTS OR POTENTIALLY HAZARDOUS MATERIALS ARE PROHIBITED
- 21. EXPOSED SURFACES THAT WILL NOT BE BROUGHT TO FINAL GRADE OR GIVEN A PERMANENT COVER TREATMENT WITHIN 30 DAYS OF THE EXPOSURE SHALL HAVE SEED MIX AND MULCH PLACED TO STABILIZE THE SOIL AND REDUCE EROSION SEDIMENTATION. SEEDED AREAS SHALL BE CHECKED REGULARLY TO ASSURE A GOOD STAND OF GRASS IS BEING MAINTAINED. AREAS THAT FAIL TO ESTABLISH VEGETATION COVER ADEQUATE TO PREVENT EROSION WILL BE
- 22. APPLY AN APPROVED TEMPORARY SEEDING MIXTURE TO THE PREPARED SEED BED AT A RATE OF 120 LBS/ACRE. NOTE: "HYDROSEEDING" APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.

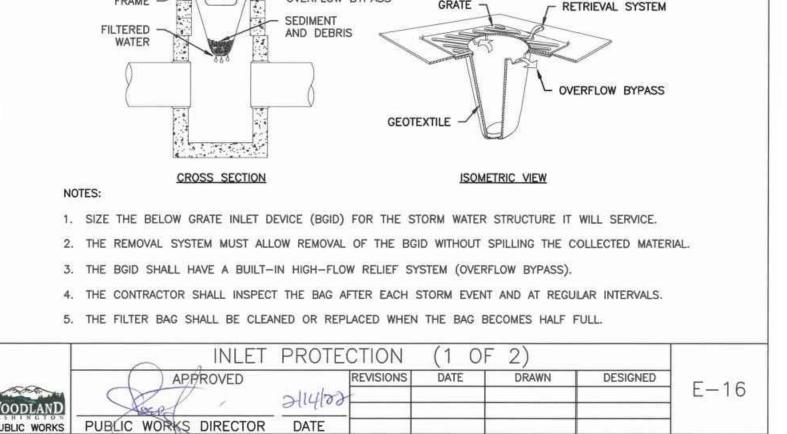
	EROSION PREV	ENTION	AND	SEDIME	NT CONT	ROL	
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WOODLAND	Spent .	2/14/02					L-03
PUBLIC WORKS	PUBLIC WORKS DIRECTOR	DATE					

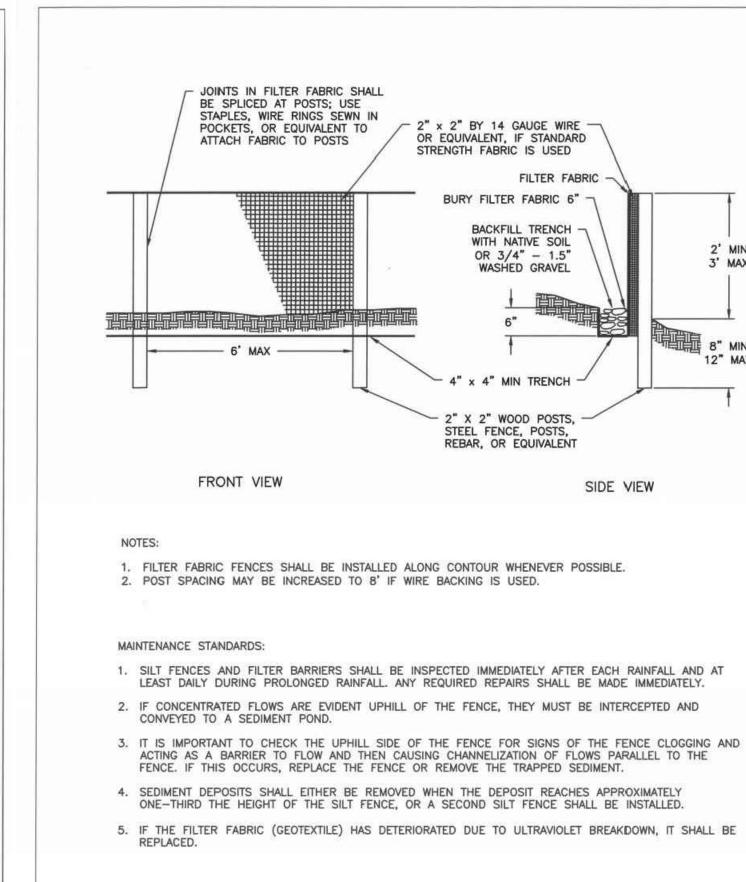






TRIM GEOTEXTILE - OVERFLOW BYPASS

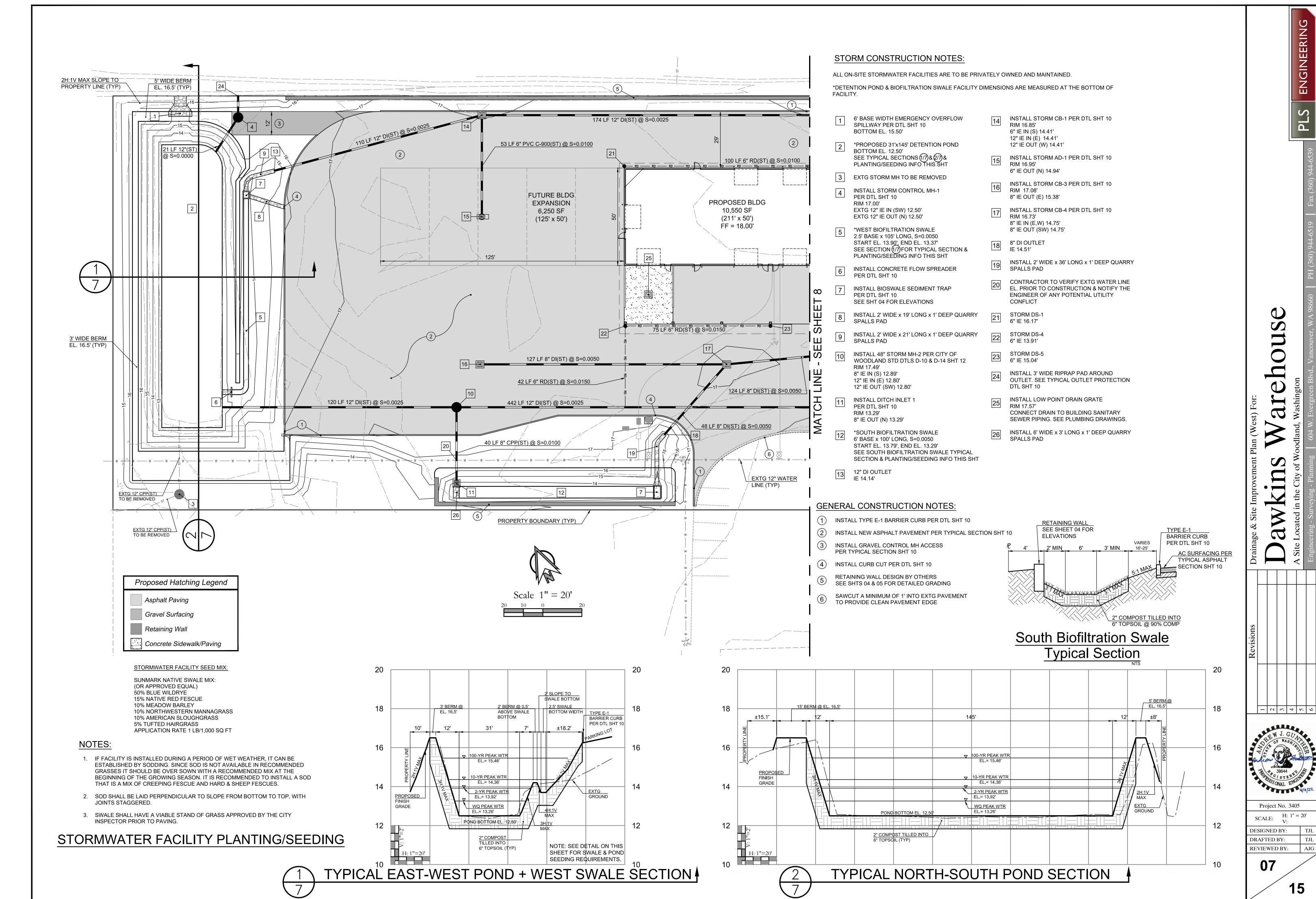




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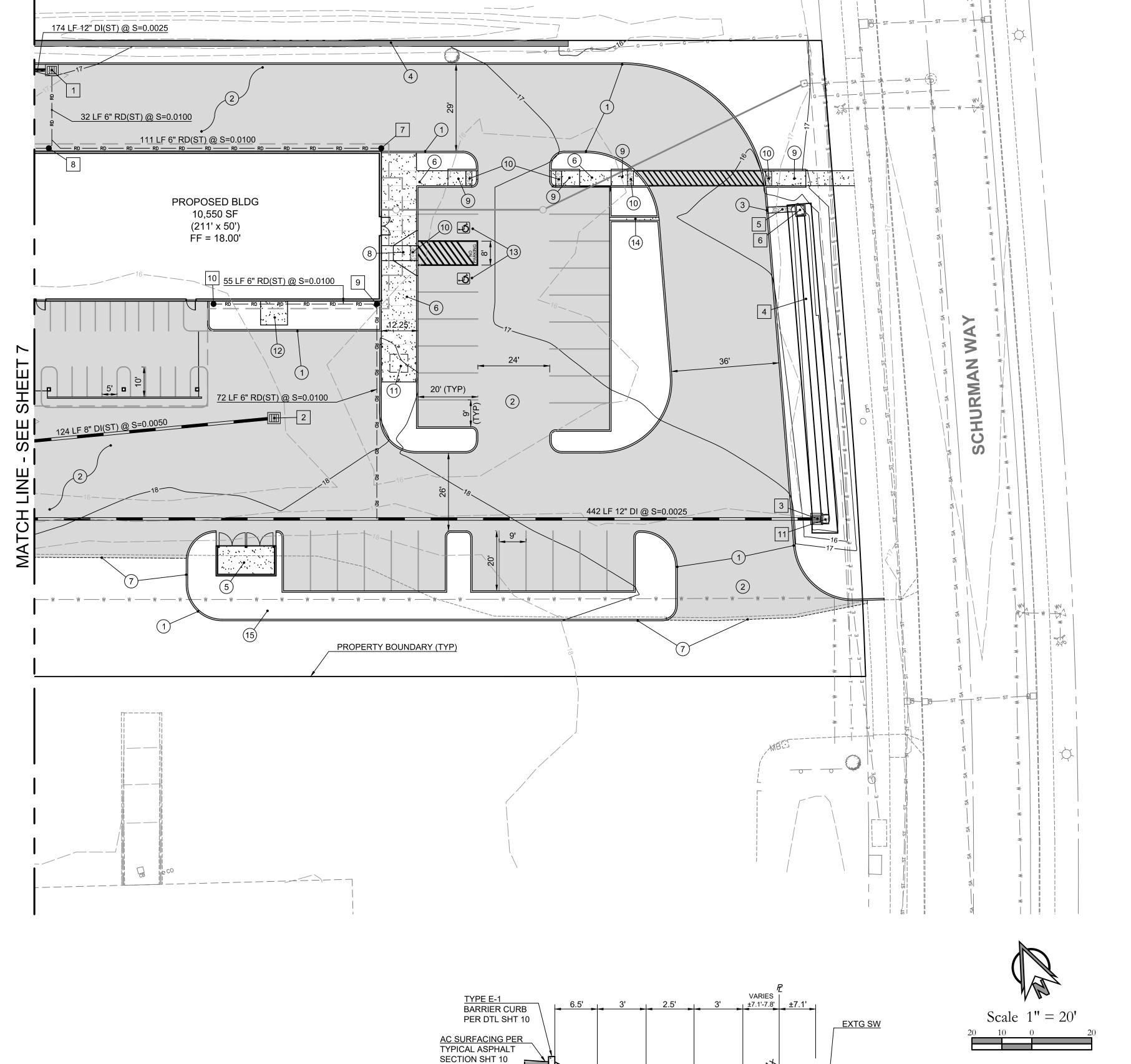




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Project No. 3405 SCALE: H: N/AV: 1'' = 20'

DESIGNED BY: DRAFTED BY: REVIEWED BY:



12" SELECT NATIVE TOPSOILS @ 90% COMP

East Biofiltration Swale

Typical Section

STORM CONSTRUCTION NOTES:

ALL ON-SITE STORMWATER FACILITIES ARE TO BE PRIVATELY OWNED AND MAINTAINED.

*BIOFILTRATION SWALE DIMENSIONS ARE MEASURED AT THE BOTTOM OF FACILITY.

INSTALL STORM CB-2 PER DTL SHT 10 RIM 16.85' 6" IE IN (S) 14.85'

2 INSTALL STORM CB-5 PER DTL SHT 10 RIM 17.10' 8" IE OUT (W) 15.37'

3 INSTALL DITCH INLET 2 PER DTL SHT 10 RIM 14.00' 12" IE OUT (W) 13.91'

12" IE OUT (W) 14.85'

EAST BIOFILTRATION SWALE 2.5' BASE x 100' LONG, S=0.0050 START EL. 14.50', END EL. 14.00' SEE EAST BIOFILTRATION SWALE TYPICAL SECTION THIS SHT & PLANTING/SEEDING INFO SHT 07

INSTALL 2' WIDE x 9' LONG x 1' DEEP
QUARRY SPALLS PAD QUARRY SPALLS PAD

6 BIOSWALE SEDIME PER DTL SHT 10 BIOSWALE SEDIMENT TRAP

T STORM DS-2 6" IE 16.25'

8 STORM DS-3 6" IE 15.17'

9 STORM DS-6 6" IE 14.60'

10 STORM DS-7 6" IE 15.15'

INSTALL 2.5' WIDE x 3' LONG x 1' DEEP QUARRY SPALLS PAD

GENERAL CONSTRUCTION NOTES:

1 INSTALL TYPE E-1 BARRIER CURB PER DTL SHT 10

2 INSTALL NEW ASPHALT PAVEMENT PER TYPICAL SECTION SHT 10

(3) INSTALL CURB CUT PER DTL SHT 10

4 RETAINING WALL DESIGN BY OTHERS SEE SHTS 04 & 05 FOR DETAILED GRADING

(5) TRASH ENCLOSURE DESIGN BY OTHERS

(6) TYPICAL ON-SITE SIDEWALK PER DTL SHT 11

SAWCUT A MINIMUM OF 1' INTO EXTG PAVEMENT REMOVE EXTG PAVEMENT UNDER PROPOSED CURB

8 INSTALL SIDEWALK RAMP TYPE 1 PER DTL 11 DETAILED GRADING ON SHT 05

9 INSTALL SIDEWALK RAMP TYPE 2 PER DTL 11 DETAILED GRADING ON SHT 05

TRUNCATED DOMES/DETECTABLE WARNING PATTERN PER CITY OF WOODLAND STD DTL T-21 SHT 12

TRANSFORMER PAD SEE ELECTRICAL DRAWINGS

MECHANICAL EQUIPMENT PAD SEE MECHANICAL DRAWINGS

install ada parking & Handicap signs per DTLs sht 11 pavement cross section per DTL sht 10

(14) CURB SCUPPER PER DTL SHT 11

15 REMOVE EXTG PAVEMENT NORTH AND EAST OF NEW CURB LINE

Asphalt Paving

Gravel Surfacing

Retaining Wall

Concrete Sidewalk/Paving

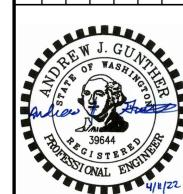




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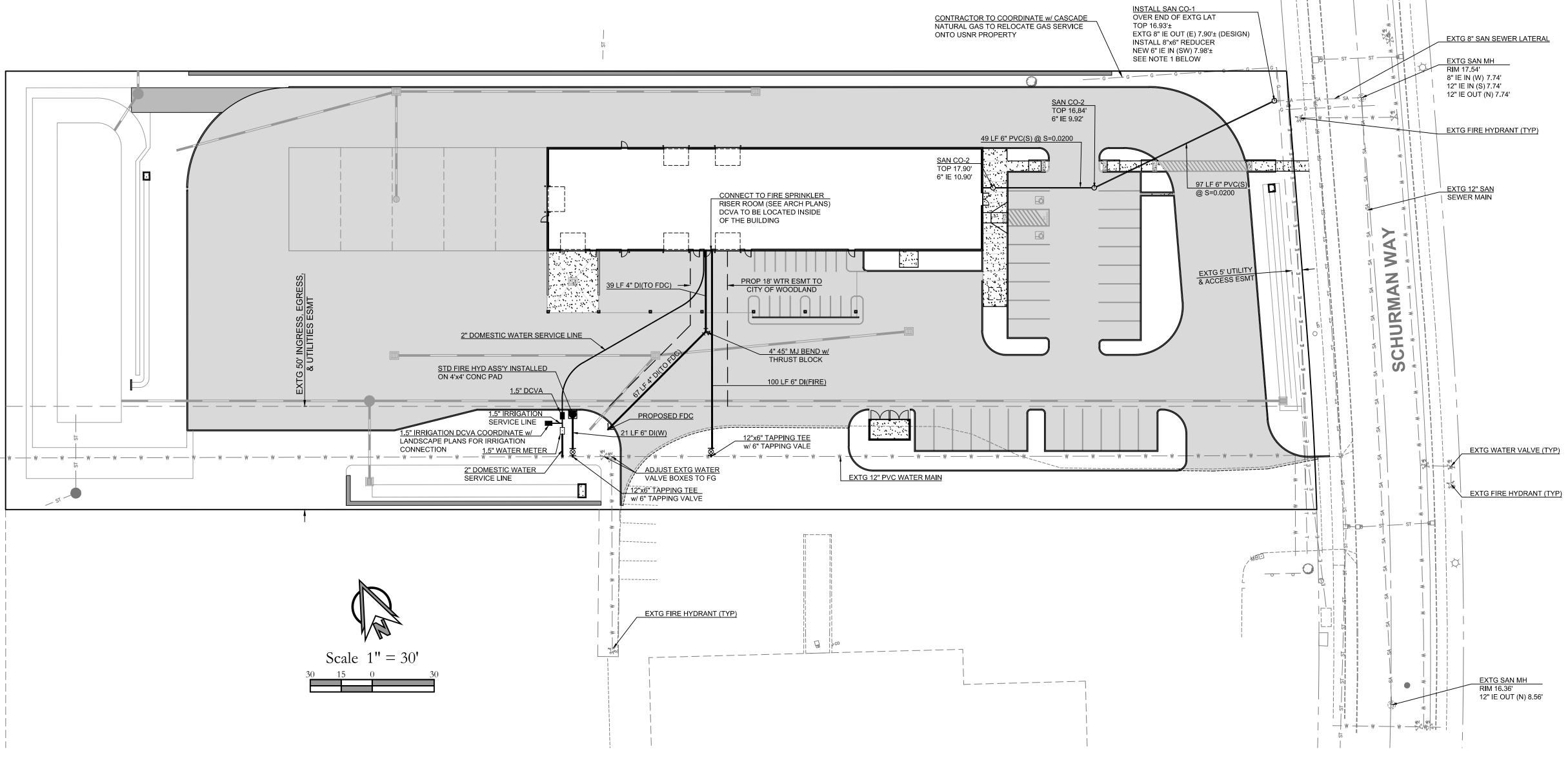
Kins Warelington in the City of Woodland, Washington

A Site Located in the City of Engineering - Surveying - Plannin



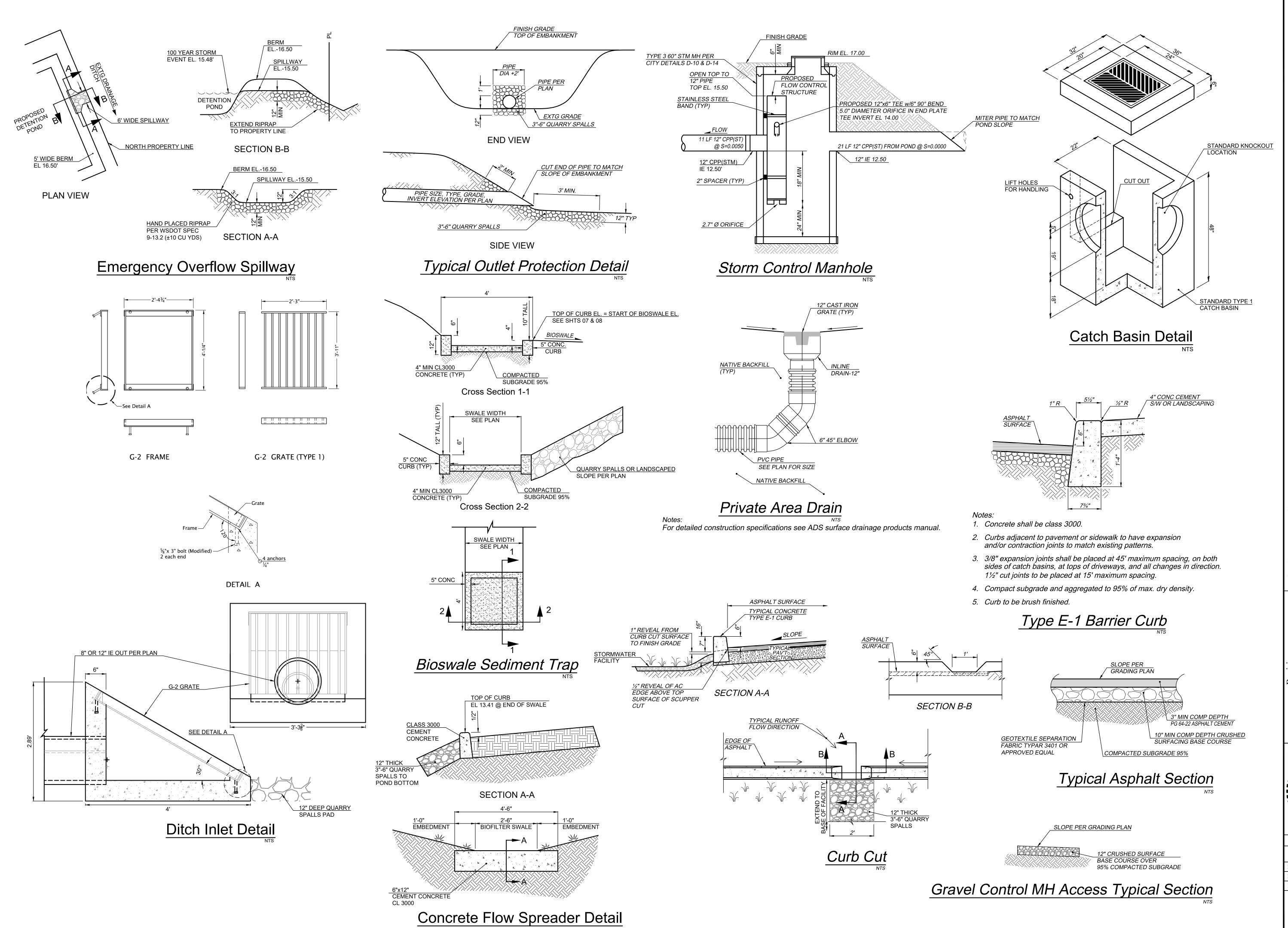
Project	No. 3405	
SCALE:	H: 1" = V: N/A	30'
DESIGNED	BY:	TJI
DDVELEDI	QV.	TH

REVIEWED BY:



NOTES:

- 1. DESIGN ELEVATION LISTED FOR THE END OF THE EXISTING 8" SAN SEWER LATERAL IS BASED ON THE AS-BUILT INVERT ELEVATION AT THE EXISTING SANITARY MANHOLE AND AN ASSUMED LATERAL SLOPE OF 0.0040 AS INDICATED ON THE ORIGINAL CONSTRUCTION DRAWINGS WHICH RESULTED IN THE LATERAL INSTALLATION. THE CONTRACTOR SHALL EXPOSE AND MEASURE THE INVERT ELEVATION OF THE END OF THE SEWER LATERAL PRIOR TO CONSTRUCTION AND NOTIFY THE ENGINEER OF ANY DISCREPANCY BETWEEN DESIGN AND ACTUAL INVERT ELEVATIONS SO THAT ANY REQUIRED DESIGN MODIFICATIONS CAN BE MADE PRIOR TO CONSTRUCTION.
- 2. ALL CITY OF WOODLAND STANDARD WATER DETAILS CAN BE FOUND ON SHTS 13 & 14.
- 3. ALL CITY OF WOODLAND STANDARD SANITARY SEWER DETAILS CAN BE FOUND ON SHT 15.



PLS ENGINEE

Warhington Washington

Dawkins W

Kevisions

Project No. 3405

SCALE: H: N/A V: N/A

DESIGNED BY: T:

DRAFTED BY:
REVIEWED BY:

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NOMINAL JOINT SPACING:

② CONTRACTION JOINT AT 15'.

EXPANSION JOINT DETAIL T05-02 (3)

1 SURFACE JOINT AT 5'.

③ EXPANSION JOINT AT STRUCTURES, OBSTRUCTION, OR AS

INSPECTOR.

-SURFACE JOINT (TYP.)

Project No. 3405 SCALE:

DESIGNED BY: DRAFTED BY:

REVIEWED BY:

JOINT FILLER **EXPANSION JOINT**

② CONTRACTION JOINT

DETAIL TO5-02 -

2" MIN. CRUSHED SURFACING — BASE/TOP COURSE

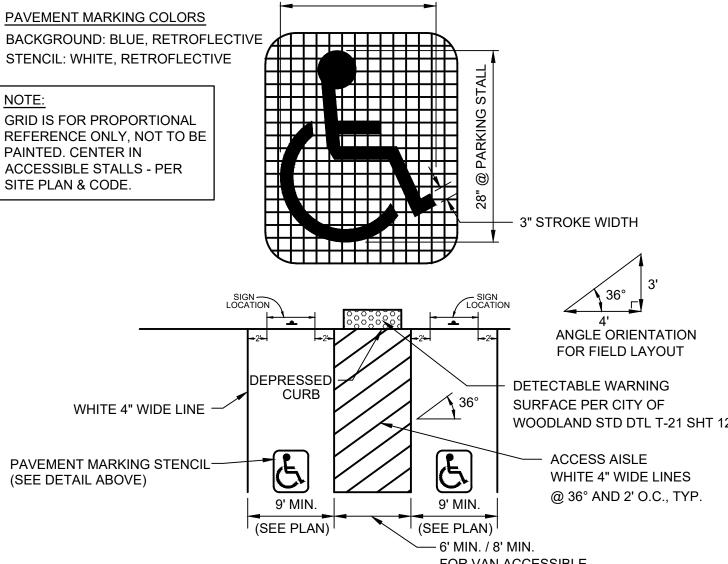


CONTRACTION JOINT

JOINT DETAIL TO5-02-

✓ 4" CL 3000 CONCRETE

—1/2" DEEP SURFACE JOINT (1)



24" @ PARKING STALL

1. ALL PAVEMENT MARKINGS SHALL BE PAINTED. CONTRACTOR SHALL VERIFY ALL TEXT, GRAPHICS, AND DIMENSIONS WITH LOCAL JURISDICTION'S REQUIREMENTS.

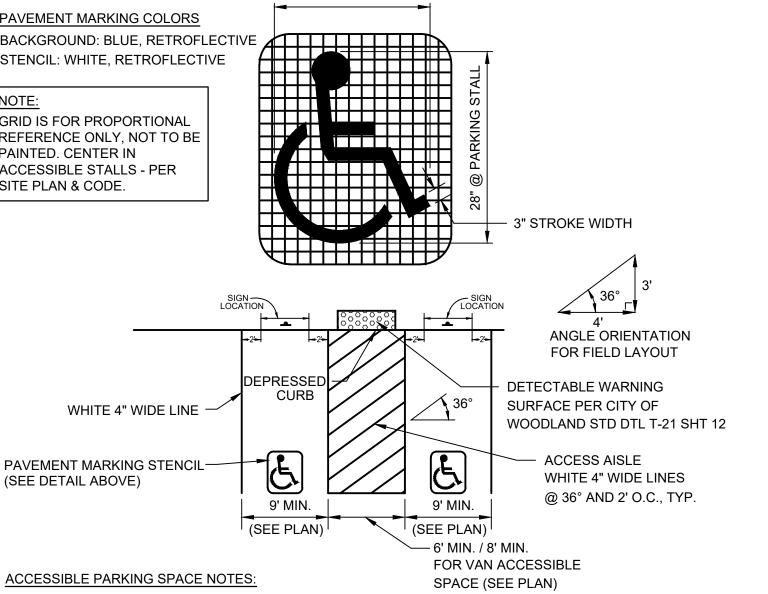
2. EACH ACCESSIBLE SPACE SHALL BE SO DESIGNATED WITH THE OR7-8 SIGN SHOWN. VAN ACCESSIBLE SPACES SHALL HAVE THE ADDITIONAL R7-8P SIGN MOUNTED BENEATH, SUCH DESIGNATING "VAN ACCESSIBLE". THE LOWEST SIGN ON THE POST SHALL BE MOUNTED A MINIMUM OF 7 FEET ABOVE GRADE TO THE BOTTOM OF THE SIGN. WHEN SIGNS ARE MOUNTED ON BUILDINGS OR PIERS THE VERTICAL CLEARANCE DOES NOT APPLY, HOWEVER, THE SIGNS SHALL BE READABLE BY A PERSON DRIVING BY THE SPACES EVEN WHEN THE SPACES ARE OCCUPIED.

3. ACCESSIBLE PARKING SHALL BE PROVIDED IN ACCORDANCE WITH ALL APPLICABLE FEDERAL STATE AND LOCAL CITY/COUNTY REGULATIONS.

4. ONE IN EVERY EIGHT ACCESSIBLE SPACES, BUT NOT LESS THAN ONE, SHALL BE SERVED BY AN ACCESS AISLE 96" WIDE AND SHALL BE DESIGNATED AS "VAN ACCESSIBLE" AS SPECIFIED IN NOTE 2.

5. PARKING ACCESS AISLES SHALL BE PART OF AN ACCESS ROUTE TO THE BUILDING OR FACILITY ENTRANCE. TWO ACCESSIBLE PARKING SPACES MAY SHARE A COMMON ACCESS AISLE. PARKING SPACES AND ACCESS AISLES SHALL BE LEVEL WITH SURFACE SLOPES NOT EXCEEDING 1:50 IN ALL DIRECTIONS.

Accessible Parking Space Details



- 1. CONCRETE SHALL BE 3000 PSI MIN. (CL 3000), 3 1/2" SLUMP (MAX.).
- 2. COMPACT SUBGRADE AND AGGREGATE TO 95% OF MAXIMUM DRY DENSITY (3" MIN.).

-2" MIN. CRUSHED SURFACING BASE OR TOP COURSE

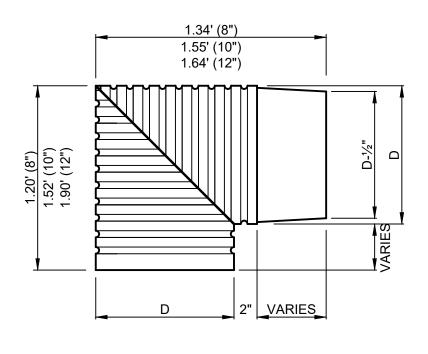
- 3. FINISH SHALL BE MEDIUM BROOM PERPENDICULAR TO PEDESTRIAN TRAFFIC UNLESS OTHERWISE DIRECTED.
- 4. 2" SMOOTH FINISH BORDER AROUND EACH SIDEWALK PANEL OR MATCH EXISTING BORDER.

TYPICAL ON-SITE SIDEWALK DETAIL

5. SEE BELOW FOR CONTRACTION, AND EXPANSION JOINT DETAILS.

2% SLOPE (TYP)

- 6. ALL SIDEWALK REMOVAL AND REPLACEMENT SHALL BE JOINT TO JOINT.
- 7. EXPANSION MATERIAL REQUIRED AROUND ALL STRUCTURES AND AT BUILDINGS.



SECTION A-A

LANDSCAPING

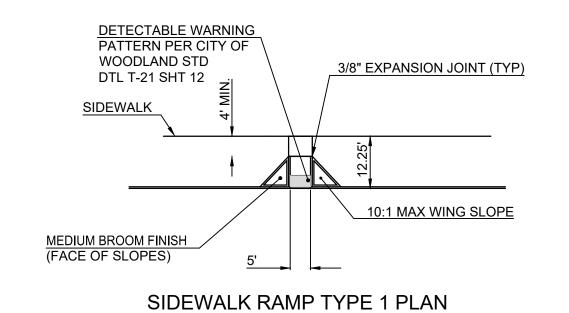
TYPICAL RUNOFF

LANDSCAPING

Curb Scupper

- 1. Trap to be made of N-12 ads pipe (or equal).
- All joints to be seamed and soldered.
- 3. Dimension "D" is nominal. diameter of outlet pipe
- Alternate trap may be authorized by inspector.

Trap Detail



16 GA GALV STEEL SIGN PAINTED W/ BLUE FIELD

REFLECTIVE WHITE SYMBOLS AND 1" HIGH REFLECTIVE WHITE LETTERS - SCREW TO POST W/

(3) #14 x 3/4" SCREWS - VERIFY

W/STATE AND LOCAL REQ'S

CODE STATUTES

2" DIA STEEL POST

B.O. SIGN

Handicap Sign

<u>NOTE:</u> LOCATE POLE IN

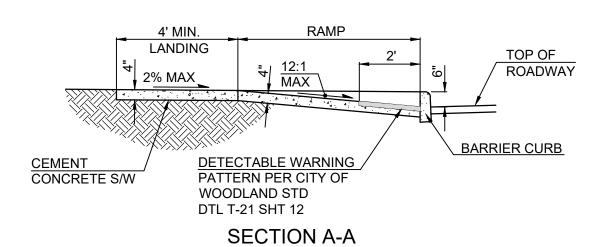
OF BUILDING

CENTER OF HANDICAP

STALL WIDTH AND 2'-6"

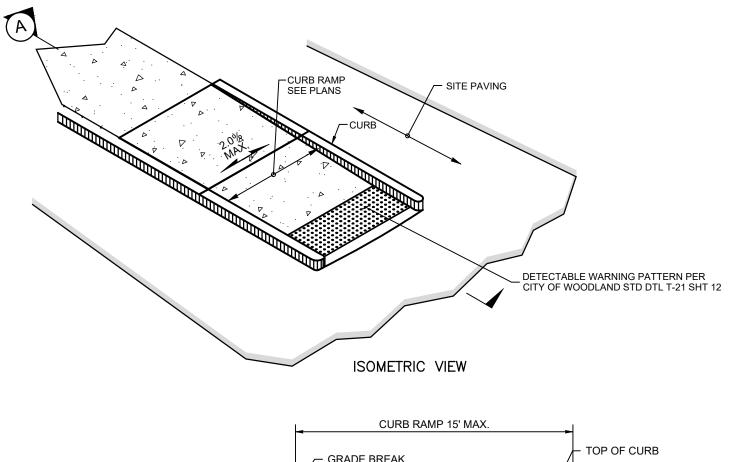
AWAY FROM CURB OR

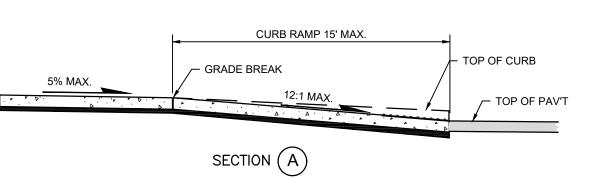
FASTEN TO EXTERIOR



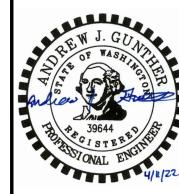
SIDEWALK RAMP TYPE 1

- Sidewalk Ramp Notes:
- 1. Do not place drainage structures, junction boxes or other obstructions in front of ramp access areas.
- 2. Detectable warning patterns to be created per City of Woodland standard detail T-21 on sheet 12.
- 3. Changes in level up to $\frac{1}{4}$ " may be vertical and without edge treatment. Changes in level between $\frac{1}{4}$ " and $\frac{1}{2}$ " shall be beveled with a slope no greater that 1:2.
- 4. Detectable warning surfaces shall extend 24 inches minimum in the direction of travel and the full width of the curb ramp, landing or blended transition.
- 5. The detectable warning surface shall be located so that the edge nearest the face of curb is 6 inches minimum and 8 inches maximum from the face of curb.
- 6. Concrete 3,000 psi minimum.





SIDEWALK RAMP TYPE 2



 $\left|\begin{array}{c|c} 1 & 2 & \varepsilon & 4 & \varepsilon \end{array}\right|$

Project No. 3405 SCALE: V: N/A DESIGNED BY: DRAFTED BY:

REVIEWED BY:

GENERAL NOTES FOR STORM SEWERS

1. ALL MATERIALS AND INSTALLATION OF STORM SEWERS AND DRAINAGE SYSTEMS SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS IN THE CITY OF WOODLAND'S LATEST VERSION OF STANDARD DETAILS AND THE LATEST EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, WHERE THE CITY OF WOODLAND REQUIREMENTS SHALL TAKE PRECEDENCE. WHEREVER THE STANDARD SPECIFICATIONS REFER TO THE OWNER AS EITHER THE "STATE" OR "SECRETARY" OR WHEN REFERENCE IS MADE TO THE DEPARTMENT OF TRANSPORTATION IT SHALL BE UNDERSTOOD THAT THE STANDARD SPECIFICATIONS SHOULD READ THE

2. ALL STORM SEWER AND DRAINAGE SYSTEM CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF WOODLAND'S PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE PUBLIC WORKS OFFICE (360) 225-7999 AT LEAST 48 HOURS PRIOR TO THE START OF ANY CONSTRUCTION. THE CITY MAY REQUIRE THAT A PRECONSTRUCTION CONFERENCE BE HELD.

3. THE CONTRACTOR IS REQUIRED TO NOTIFY ALL UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR MAY CONTACT THE NORTHWEST UTILITY NOTIFICATION CENTER AT 1-800-424-5555 IN LIEU OF CONTACTING INDIVIDUAL UTILITIES.

4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR CONTRACTOR TO PROCURE AND COMPLY WITH THE PROVISIONS OF ALL APPLICABLE PERMITS, EASEMENTS, LICENSES AND CERTIFICATES IN CONJUNCTION WITH THE CONSTRUCTION OF STORM SEWERS AND DRAINAGE SYSTEMS. COMPLIANCE SHALL BE AT ALL LEVELS; FEDERAL, STATE, AND CITY, RELATING TO THE PERFORMANCE OF THIS WORK. THE CONTRACTOR SHALL OBTAIN A STREET CUT PERMIT FOR WORK WITHIN THE PUBLIC

5. THE CONTRACTOR SHALL OBTAIN AND SUBMIT AN APPROVED TRAFFIC CONTROL PLAN PRIOR TO BEGINNING CONSTRUCTION. THE PLAN SHALL BE APPROVED BY THE PUBLIC WORKS DIRECTOR.

6. ALL EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE EROSION CONTROL PLAN AND EROSION CONTROL DETAILS, PRIOR TO START OF ANY CONSTRUCTION OR LAND DISTURBING ACTIVITY.

7. THE CONTRACTOR SHALL OBTAIN ALL OFFSITE CONSTRUCTION EASEMENTS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL VERIFY THAT ALL OFFSITE UTILITIES EASEMENTS HAVE BEEN OBTAINED BY THE OWNER PRIOR TO THE COMMENCEMENT OF ANY OFFSITE CONSTRUCTION.

8. THE CONTRACTOR IS TO VERIFY AND REPORT ANY DISCREPANCIES IMMEDIATELY TO THE ENGINEER. ITEMS TO VERIFY INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING: -INVERT AND TOP ELEVATIONS OF EXISTING STORM SEWERS -CENTERLINE AND TOP OF CURB ELEVATIONS

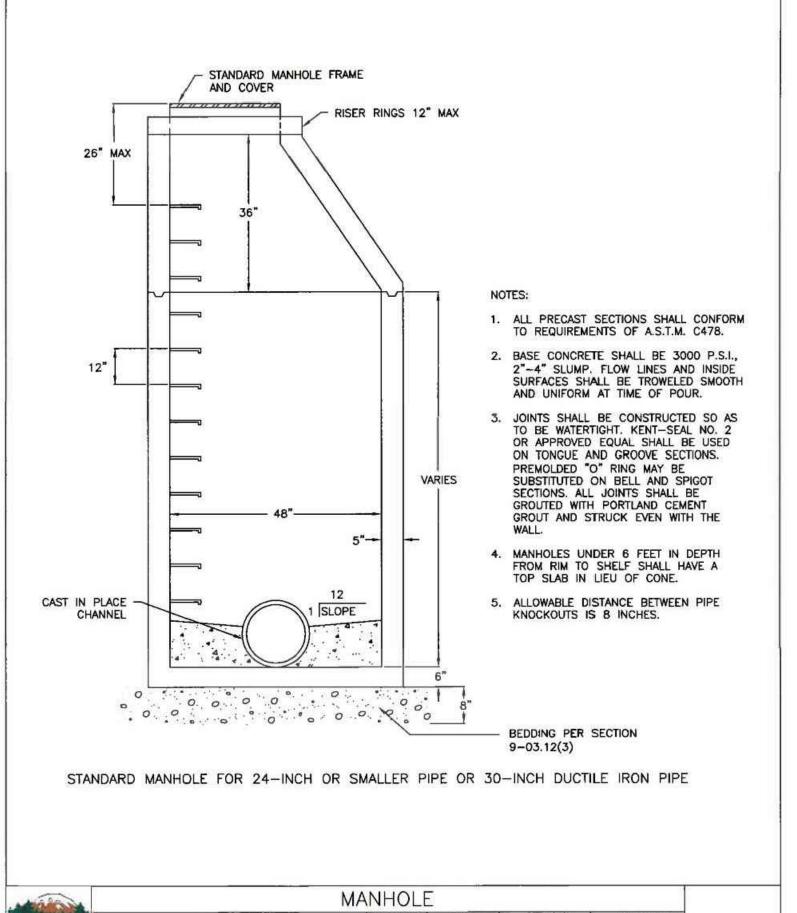
9. WATER QUALITY DEVICES WILL BE INSTALLED AND FUNCTIONING PRIOR TO COMMENCING WITH INSTALLATION OF PAVEMENT FOR ALL AREAS DRAINING INTO THE WATER QUALITY SYSTEM. VEGETATION IN BIO-FILTRATION SWALE AND POND SYSTEMS SHALL BE ESTABLISHED AND MECHANICAL DEVICES AND FILTER MEDIA SHALL BE INSTALLED. SWALES AND FILTER STRIPS WILL BE SEEDED WITH AN APPROVED SEED MIX, PER THE WESTERN WASHINGTON MANUAL. TURF IS ALLOWED FOR VEGETATED FILTERS PROVIDED THE TURF AREA IS OVERSEEDED WITH THE EQUIVALENT GRASS SEED MIX.

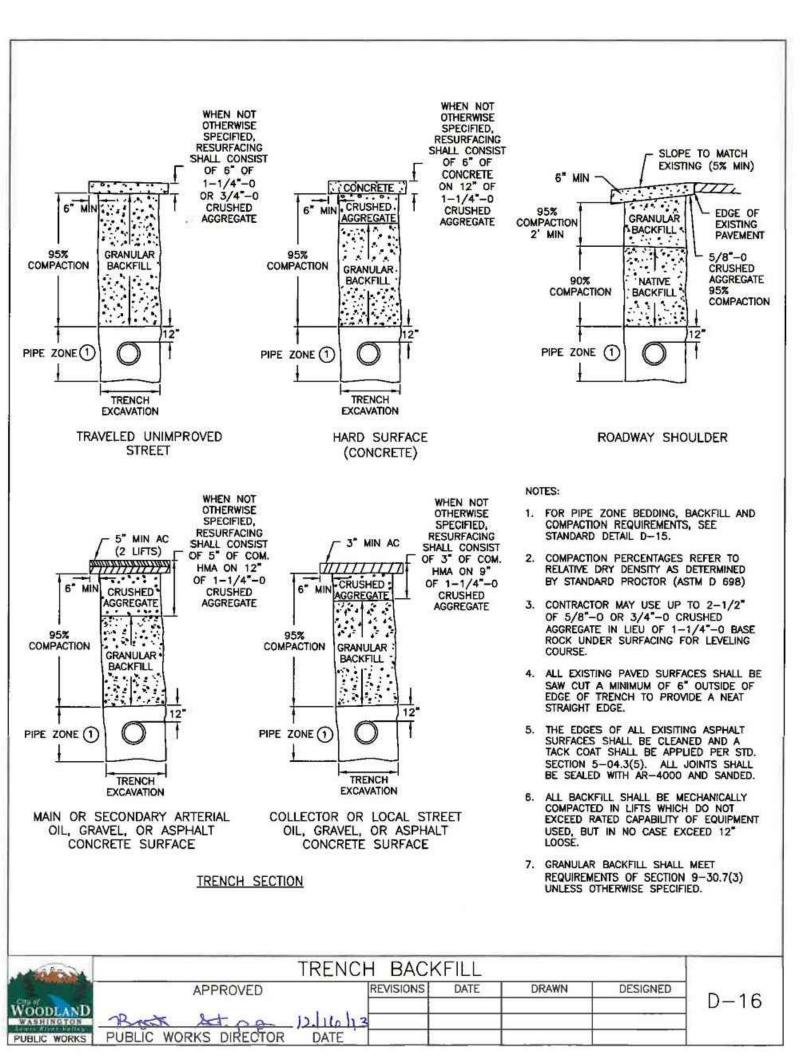
10. ALL CATCH BASINS SHALL BE STENCILED: "PROTECT STREAMS" OR "PROTECT GROUNDWATER."

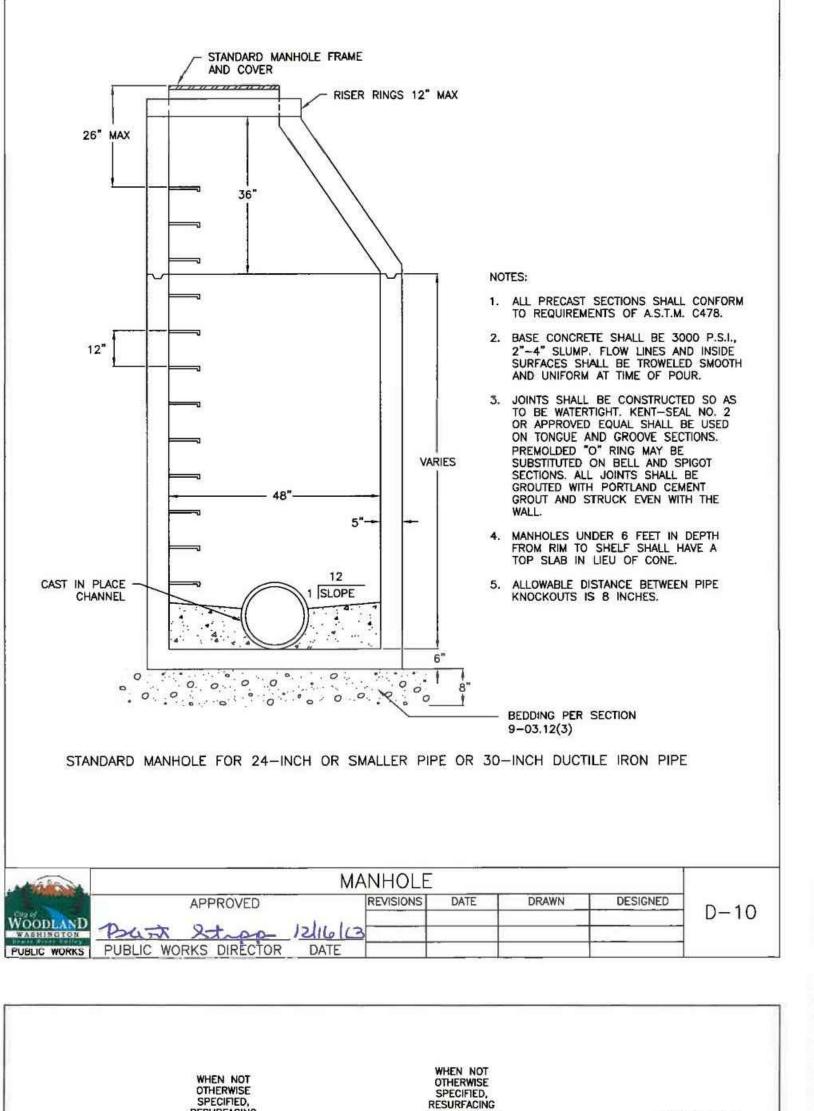
11. ROOF DOWNSPOUT RUNOFF MUST BE RETAINED ON EACH SPECIFIC SITE. DOWNSPOUTS SHALL NOT DRAIN TO THE STREET OR ANY ADJACENT PROPERTIES UNLESS SPECIFIC APPROVAL HAS BEEN

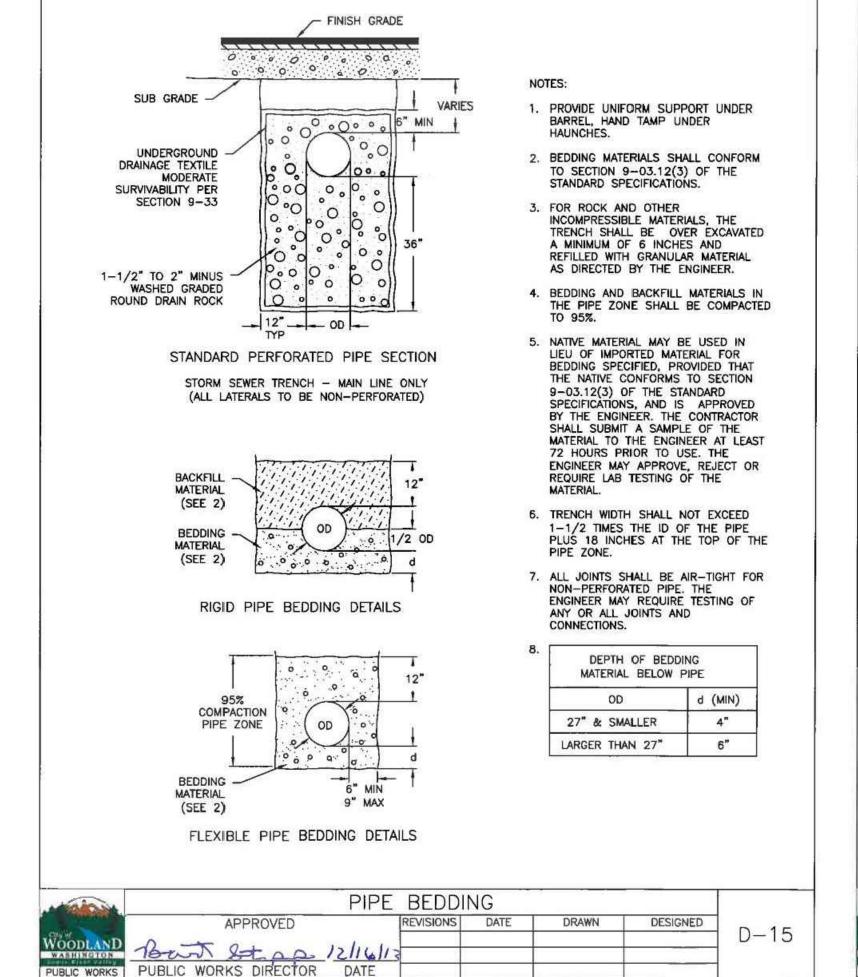
12. THE CONTRACTOR WILL PROVIDE A TELEVISION REPORT, TAPE, AND TABULAR AS-BUILT OF ALL PUBLIC STORM MAINS AND LATERALS PRIOR TO PAVING. THIS INFORMATION WILL BE SUBMITTED TO THE CITY INSPECTOR FOR REVIEW. APPROVAL AND ACCEPTANCE OF THE TV INSPECTION WILL BE BASED UPON MANUFACTURING AND INSTALLATION DEFECTS, AS WELL AS DEBRIS IN THE LINES. FINAL ACCEPTANCE AND CONSTRUCTION OF STORM SEWERS ARE SUBJECT TO INSPECTION AND TESTING IN ACCORDANCE WITH SECTIONS 1-05.11, 1-05.12, AND 7-04.3 OF THE STANDARD SPECIFICATIONS.

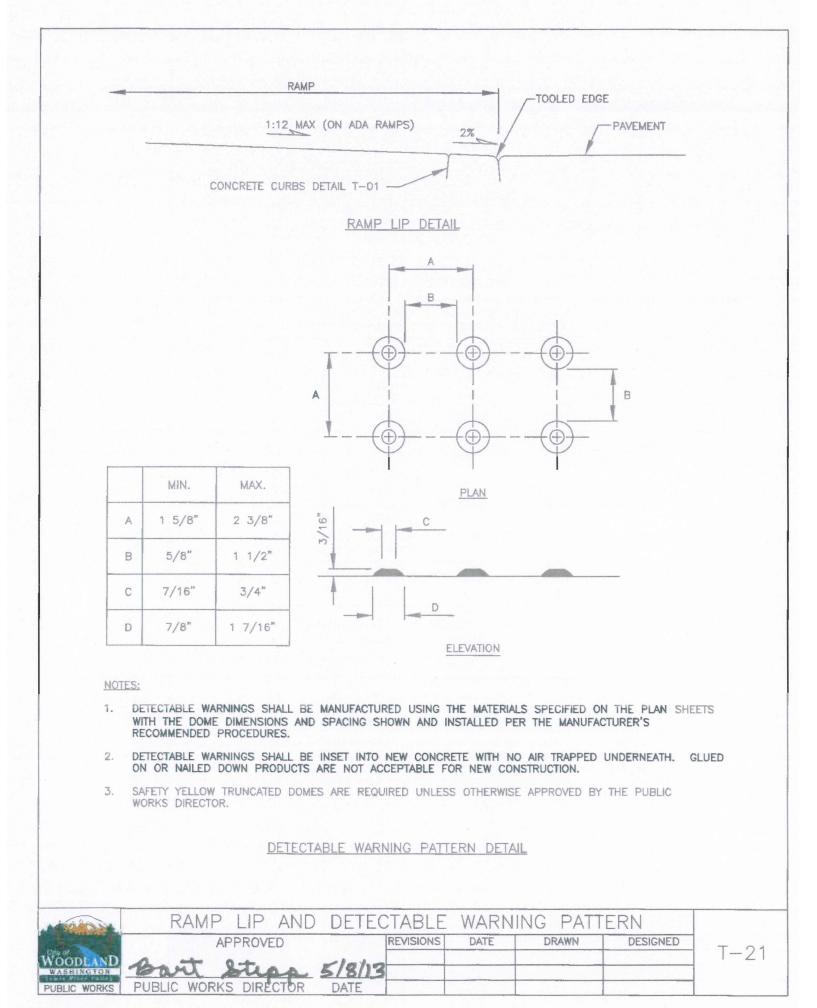
- Marian	GENERAL	NOTES	FOR	STORM	SEWERS		
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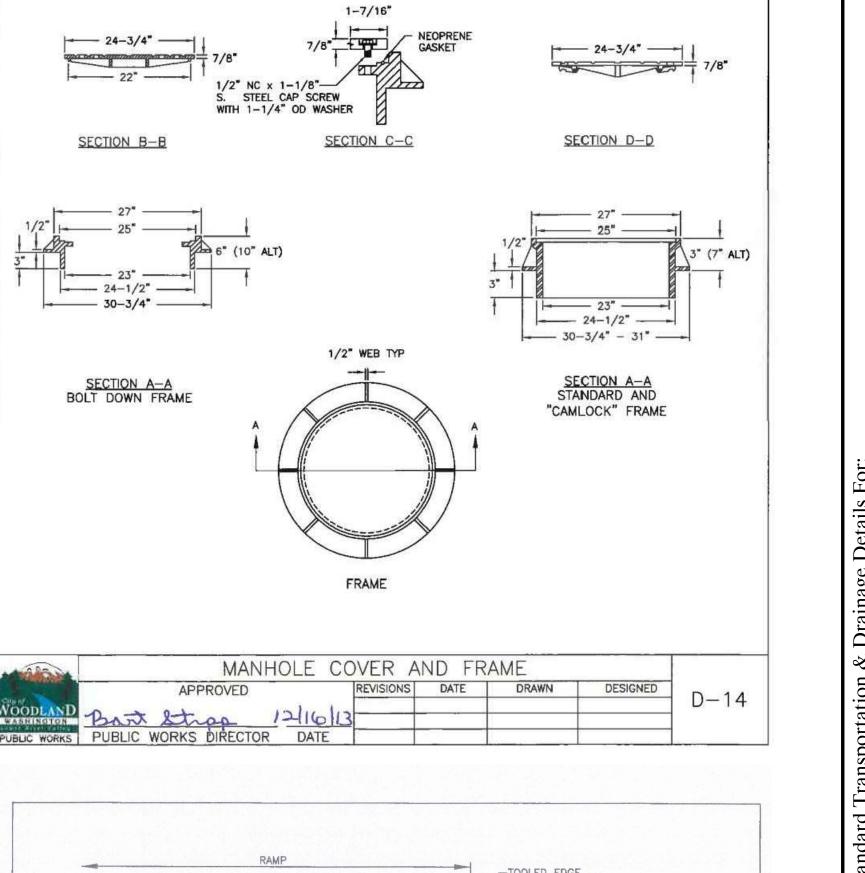








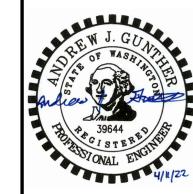




BOLT DOWN LID

"CAM-LOCK" LID

NON-LOCKING LID



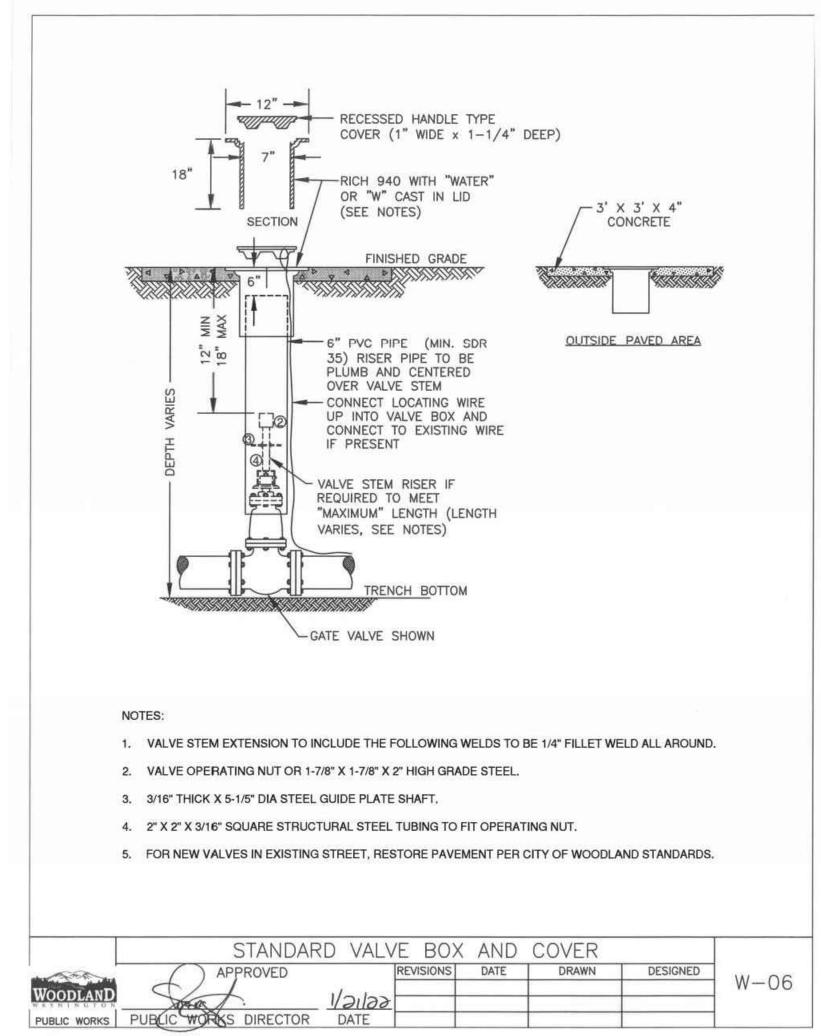
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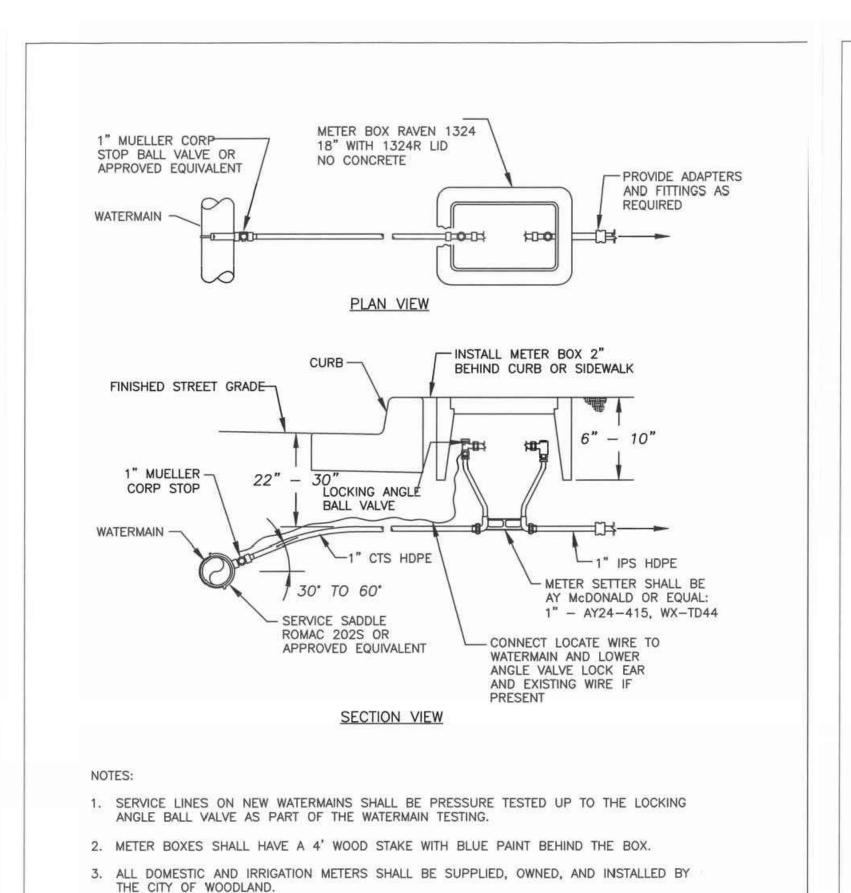
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GENERAL NOTES FOR WATER MAIN INSTALLATION

- 1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION HEREIN IDENTIFIED AS THE "STANDARD SPECIFICATIONS", AND AWWA SPECIFICATIONS, EXCEPT AS MODIFIED BELOW OR BY CITY OF WOODLAND STANDARD DETAILS.
- 2. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH CITY OF WOODLAND AT LEAST 48-HOURS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE CONSTRUCTION SCHEDULES AND TRAFFIC CONTROL PLANS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS. PROPOSED "EQUIVALENTS" MUST BE SUBMITTED TO THE CITY OF WOODLAND FOR APPROVAL.
- 3. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT (360) 225-7999, 48-HOURS PRIOR TO LIVE TAPS OR OTHER CONNECTIONS TO EXISTING WATERMAINS. WHERE CONNECTIONS REQUIRE SHUT-DOWN OF SERVICE, CONNECTION POINTS WILL BE EXPOSED FOR "FIELD VERIFICATION" BY CONTRACTOR AND CONNECTION DETAILS SHALL BE VERIFIED 48 HOURS PRIOR TO DISTRIBUTING SHUT-DOWN NOTICES.
- 4. CALL UNDERGROUND LOCATE AT 811 A MINIMUM OF 48-HOURS PRIOR TO ANY
- 5. UNLESS OTHERWISE ESTABLISHED IN WRITING BY THE CITY, ALL WATER MAINS SHALL BE STAKED FOR GRADES AND ALIGNMENT BY AN ENGINEERING OR SURVEYING FIRM CAPABLE OF PERFORMING SUCH WORK.
- 6. EXISTING VALVES AND ANY VALVES INSTALLED DIRECTLY TO AND CONNECTED TO A PORTION OF ACTIVE WATER SYSTEM ARE TO BE OPERATED BY CITY OF WOODLAND REPRESENTATIVES ONLY.
- 7. WATER MAINS SHALL BE PVC IN ACCORDANCE WITH AWWA C900, MINIMUM DR18 OR DUCTILE IRON PRESSURE CLASS 52 OR AS NOTED ON DRAWING. ALL MATERIAL IN SUBSTANTIAL CONTACT WITH DRINKING WATER MUST CONFORM TO ANSI/NSF STANDARD 61 AND BE LEAD FREE.
- 8. ALL LINES SHALL BE CHLORINATED AND TESTED IN CONFORMANCE WITH THE STANDARD SPECIFICATIONS PRIOR TO USE.
- 9. HARD COPY AND ELECTRONIC "AS-BUILT" DRAWINGS SHALL BE SUBMITTED TO CITY OF WOODLAND UPON COMPLETION OF THE WORK.
- 10. ALL WATERMAINS, FIRE HYDRANTS, BLOW OFF ASSEMBLIES, VACUUM BREAKERS, AND WATER SERVICES MUST HAVE LOCATE WIRE INSTALLED.
- 11. ALL MECHANICAL JOINT FITTINGS SHALL BE RESTRAINED USING MJ FOLLOWER GLANDS, MEGALUG, OR EQUAL.

	GENERAL NOTES FOR WATER MAIN INSTALL	
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WOODLAND	1-13-22	
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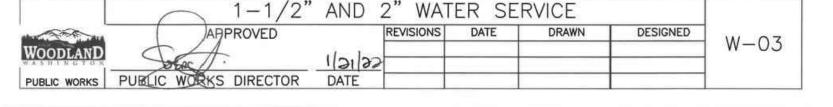
- 1. ALL REDUCED PRESSURE AND BACKFLOW DEVICES SHALL BE WASHINGTON STATE APPROVED, PER
- 2. FIRE SPRINKLER AND IRRIGATION SYSTEMS SHALL BE PROTECTED WITH STATE APPROVED BACKFLOW PROTECTION AS PRESCRIBED IN WAC 246-290. IRRIGATION SYSTEMS ARE PROTECTED COMMENSURATE WITH THE DEGREE OF HAZARD AS DEFINED BELOW:
- OR INFECTORS FOR THE ADDITION OF CHEMICALS. THIS RISK ASSESSMENT IS ALSO BASED ON THE ADDITIONAL HARZARD POSED BY BACTERIAL CONTAMINANTS FOUND ON LAWNS, AND ON THE POSSIBILITY OF CHANGES BEING MADE TO THE IRRIGATION SYSTEM BY THE CUSTOMER. AN APPROVED REDUCED PRESSURE BACKFLOW ASSEMBLY, OR AN APPROVED CHEMICALS OR HERBICIDES TO BE INJECTED INTO THE IRRIGATION SYSTEM, OR WHERE AN
- AUXILIARY SUPPLY IS ALSO PROVIDED FOR IRRIGATION WATER. LOW HEALTH HAZARD - IS ASSESSED TO ALL IRRIGATION SYSTEMS NOT OTHERWISE ASSESSED AS A HIGH HEALTH HAZARD. THIS RISK ASSESSMENT IS BASED ON THE HAZARD POSED BY BACTERIAL AND CHEMICAL CONTAMINANTS FOUND ON LAWNS, AND ON THE POSSIBILITY OF CHANGES BEING MADE TO THE IRRIGATION SYSTEM BY THE CUSTOMER. AN
- 3. ALL COMMERCIAL, INDUSTRIAL AND MULTI-FAMILY FACILITIES SHALL BE PROTECTED WITH WASHINGTON STATE APPROVED BACKFLOW PROTECTION.
- UPON ACTIVITY (BOILERS, CHILLERS, CHEMICAL ADDITION, BOOSTER PUMPS, WELLS, MEDICAL EQUIP. SODA POP MACHINES, ETC).
- 7. IF A WELL IS NOW EXISTING ON-SITE OR IS DRILLED IN THE FUTURE, A REDUCED PRESSURE BACKFLOW ASSEMBLY WILL BE REQUIRED AT EACH METER. 8. WHERE A VAULT IS REQUIRED, A GALV. STEEL WALL MOUNTED CHAMBER LADDER W/EXTENSIONS
- THE BUILDING IN A MAINTAINABLE LOCATION.
- INSIDE THE BUILDING. 11. ALL BACKFLOW DEVICES SHALL BE PROTECTED FROM FREEZING. 12. BACKFLOW PREVENTION ASSEMBLY VAULTS (I.E.: FIRE AND SERVICE PROTECTION) MUST BE
- LOCATIONS MUST BE REQUESTED IN WRITING AND APPROVED BY CITY OF WOODLAND PUBLIC WORKS PRIOR TO INSTALLATION. 13. NO PART OF THE BACKFLOW PREVENTION ASSEMBLY SHALL BE SUBMERGED IN WATER OR
- INSTALLED IN A LOCATION SUBJECT TO FLOODING. IF A BACKFLOW PREVENTION ASSEMBLY IS INSTALLED IN A VAULT OR BASEMENT, ADEQUATE DRAINAGE OR DEWATERING SHALL BE PROVIDED.
- 15. ALL DOMESTIC SERVICES WITH BACKFLOW PROTECTION SHALL BE PRIVATE AFTER THE DOMESTIC WATER METER.
- ACCEPTANCE AND ANNUALLY THEREAFTER BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. A RESULTS SHALL BE SENT TO THE CITY OF WOODLAND PUBLIC WORKS DEPARTMENT.

MAIL TEST RESULTS TO: CITY OF WOODLAND PUBLIC WORKS P.O. BOX 9

EMAIL TEST RESULTS TO: PWCLERK@CI.WOODLAND.WA.US

FAX TEST RESULTS TO: 360-225-7336

	S FOR BACK	LLOW	PROTECT	ION	
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INSTALL METER BOX 4"

BEHIND CURB OR S/W

- CURB

FINISHED STREET

- SERVICE SADDLE ROMAC 202S OR

APPROVED EQUIVALENT

30° TO 60°

GRADE

CONNECT LOCATE WIRE TO WATERMAIN AND LOWER ANGLE VALVE LOCK EAR

AND EXISTING WIRE IF EXISTING

METER BOX RAVEN 1730-

METER -

- LOCKING BYPASS VALVE

1. ALL DOMESTIC AND IRRIGATION METERS SHALL BE SUPPLIED, OWNED, AND INSTALLED BY THE CITY

2. PRIOR TO CITY INSTALLATION OF METERS, ALL SERVICE APPLICATIONS MUST BE COMPLETED AND

3. CONTRACTOR SHALL CONTACT THE CITY OF WOODLAND PUBLIC WORKS OFFICE (360) 225-7999

4. METERS WILL NOT BE SET BY THE CITY PRIOR TO DISINFECTION OF THE MAIN AND SERVICE, AND

5. SERVICE LINES ON NEW WATERMAINS SHALL BE PRESSURE TESTED UP TO THE LOCKING ANGLE

6. DURING THE PRESSURE TEST, THE MAIN SHALL BE OPEN FOR INSPECTION OF ALL CORPORATION

8. METER BOXES ARE NOT ALLOWED IN HARD SURFACED AREAS WITHOUT PRIOR WRITTEN APPROVAL.

7. USE 1-7/8" BIT FOR ALL 2" SADDLE TAPS AND 1-3/8" BIT FOR 1-1/2" SADDLE TAPS.

SURROUNDING GRADE AND BOTH THE BOX AND LID MUST BE TRAFFIC RATED.

9. 1 1/2" METER CAN BE INSTALLED IN A 2" SETTING WITH ADAPTORS.

METER BOXES IN HARD SURFACE AREAS SHALL BE SLIGHTLY HIGHER (1/8" MAX) THAN

APPROVED, SERVICE FEES PAID IN FULL AND AS-BUILTS SUBMITTED AND APPROVED.

48-HOURS PRIOR TO INSTALLING ANY WATER SERVICE CONNECTIONS.

1-1/2" OR 2" MUELLER-

CORP. STOP BALL VALVE

WATERMAIN -

1-1/2" OR 2" CTS HDPE-

18" WITH 1730R LID (NO CONCRETE)

8"-15" —

12' PVC NIPPLE

OR APPROVED EQUIVALENT

(MUELLER CAT. NO. B2423-15)

METER LAYING LENGTHS:

1-1/2" = 13"

2" = 17"

PLUS 1/2" FOR GASKETS

PRIOR TO A SUCCESSFUL BACTERIOLOGICAL TEST.

BALL VALVE AS PART OF THE WATERMAIN TESTING.

INSTALL METER YOKE-

OF WOODLAND.



- HIGH HEALTH HAZARD IS ASSESSED TO ANY IRRIGATION SYSTEM THAT CONTAINS PUMPS
- AIR GAP SEPARATION, SHALL BE REQUIRED IN ALL CASES WHERE MEANS ARE PROVIDED FOR
- APPROVED DOUBLE CHECK VALVE ASSEMBLY IS REQUIRED.
- 4. FURTHER BACKFLOW PREVENTION SHALL BE REQUIRED BY THE CITY OF WOODLAND DEPENDENT
- 5. ALL HOSEBIBS SHALL BE PROTECTED WITH VACUUM BREAKERS. 6. IF CHEMICALS ARE ADDED TO THE FIRE PROTECTION SYSTEM, A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER IS REQUIRED.
- IS REQUIRED AND SHALL BE CENTERED UNDER THE ACCESS DOOR. DOUBLE CHECK ASSEMBLIES SHALL BE INSTALLED IN EITHER AN APPROVED VAULT OR INSIDE
- 10. REDUCED PRESSURE ASSEMBLIES SHALL BE INSTALLED EITHER OUTSIDE ABOVE GROUND OR
- INSTALLED AT THE CUSTOMER'S SIDE OF THE EASEMENT OR PROPERTY LINE. ALTERNATE
- 14. ALL FIRE PROTECTION SERVICES SHALL HAVE A IRON BODY GATE VALVE AT THE PUBLIC MAIN AND SHALL BE PRIVATE AFTER THAT VALVE.
- 16. ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED AFTER INSTALLATION PRIOR TO PARTIAL LIST OF WASHINGTON STATE APPROVED TESTERS IS AVAILABLE UPON REQUEST. TEST

WOODLAND, WA 98674

NOTES: 1. DOUBLE CHECK VALVE ASSEMBLY (DCVA) SHALL BE APPROVED BY THE STATE OF WASHINGTON. APPROVED DCVA TO BE INSTALLED IN THE ORIENTATION (VERTICAL OR

HORIZONTAL) FOR WHICH THEY ARE APPROVED. 2. DCVA MAY BE INSTALLED ABOVE OR BELOW GROUND PROVIDED ALL CLEARANCES ARE

DESIGN FOR BACK SIPHONAGE AND BACK PRESSURE. 4. ALL INSTALLATIONS SHALL HAVE TWO UNIONS.

- 5. TEST COCKS TO EITHER FACE OUTWARDS OR UPWARDS FROM ASSEMBLY.
- 6. THE WATER LINE SHALL BE DISINFECTED, FLUSHED AND PRESSURE TESTED PRIOR TO INSTALLATION OF THE BACKFLOW ASSEMBLY.
- 7. DCVA SHALL BE ACCESSIBLE AND PROTECTED FROM FREEZING AND FLOODING.
- 8. A PLUMBING PERMIT IS REQUIRED, CONTACT THE WOODLAND BUILDING DEPARTMENT AT (360) 225-7299.
- 9. DCVA SHALL BE TESTED AFTER INSTALLATION, THEN ANNUALLY BY A WASHINGTON STATE CERTIFIED BACKFLOW TESTER. DCVA SHALL BE RETESTED IF MOVED OR REPAIRED. RESULTS SHALL BE SUBMITTED TO THE CITY OF WOODLAND PUBLIC WORKS

	DOUBLE CHEC	K VALVE	ASSEMI	BLY 2"	& SMALL	ER	
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4/11/2 Project No. 3405 SCALE: V: N/A

DESIGNED BY: DRAFTED BY: REVIEWED BY:

SOIL BEARING = 2000 LB/S.F. PIPE HORZ. BENDS AREA S.F. MIN. MIN. WIN. LENGTH OF BLOCKING C.F. MIN. 0.5 0.2 22-1/2 2.4 4.0 11-1/4 0.9 BEARING AREA 11-1/4 CONCRETE BLOCKING 10" 45' 9.3 22-1/2' 4.7 11-1/4' 2.4 UNDISTURBED 12" 45° 13.1 22-1/2' 6.7 11-1/4' 3.4 EARTH

TEE 23.8 27.3 90° 33.6 46.0 * 45° 18.2 18.3 22-1/2° 9.3 6.7 11-1/4° 4.7 2.4 22-1/2' 11.7 11-1/4' 5.9 TEE 52.3 89.1 4.03 90' 74.0 149.8 5.00 24" 45' 40.0 59.7 3.55

ANCHOR BOLT

ASPHALTIC CONCRETE,

- 1. ALL BLOCKING SHALL BE POURED AGAINST FIRM UNDISTURBED SOIL.
- 2. ALL CONCRETE BLOCKING SHALL BE POURED IN PLACE WITHOUT DIRECT CONTACT TO PIPE, FITTINGS OR FLANGES. 15 LB. ASPHALT- IMPREGNATED FELT, OR EQUIVALENT AS APPROVED BY THE INSPECTOR, SHALL BE PLACED BETWEEN THE CONCRETE AND PIPE, FITTINGS OR FLANGES.
- 3. LAYOUT TO BE APPROVED BY THE INSPECTOR PRIOR TO AND AFTER CONCRETE POUR.
- 4. CONCRETE FOR ALL BLOCKING SHALL HAVE A 28-DAY MINIMUM COMPRESSIVE STRENGTH OF 2,300 P.S.I.
- 5. THIS CHART IS NOT APPLICABLE TO VERTICAL BENDS, LOCATION SPECIFIC DESIGN IS REQUIRED FOR SUCH INSTALLATIONS.
- 6. WHERE THE TRENCH SOIL HAS A BEARING PRESSURE LESS THAN 2000 POUNDS PER SQUARE FOOT, LOCATION SPECIFIC DESIGN IS REQUIRED.

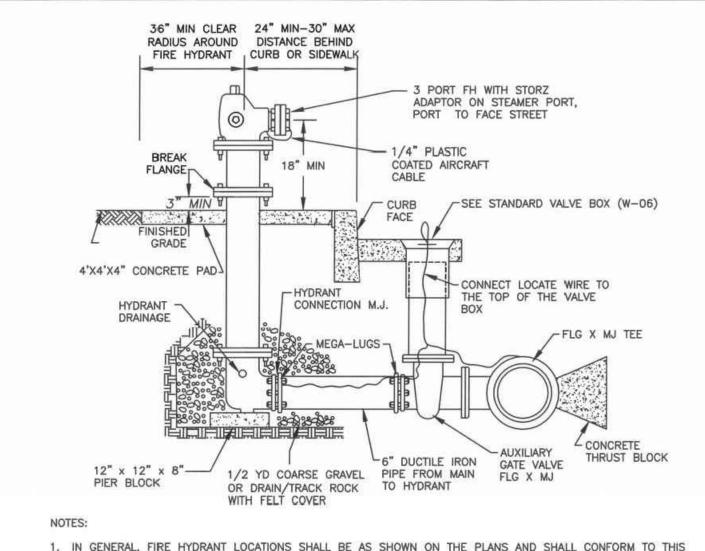
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Standard Abbreviations

SCHEDULE

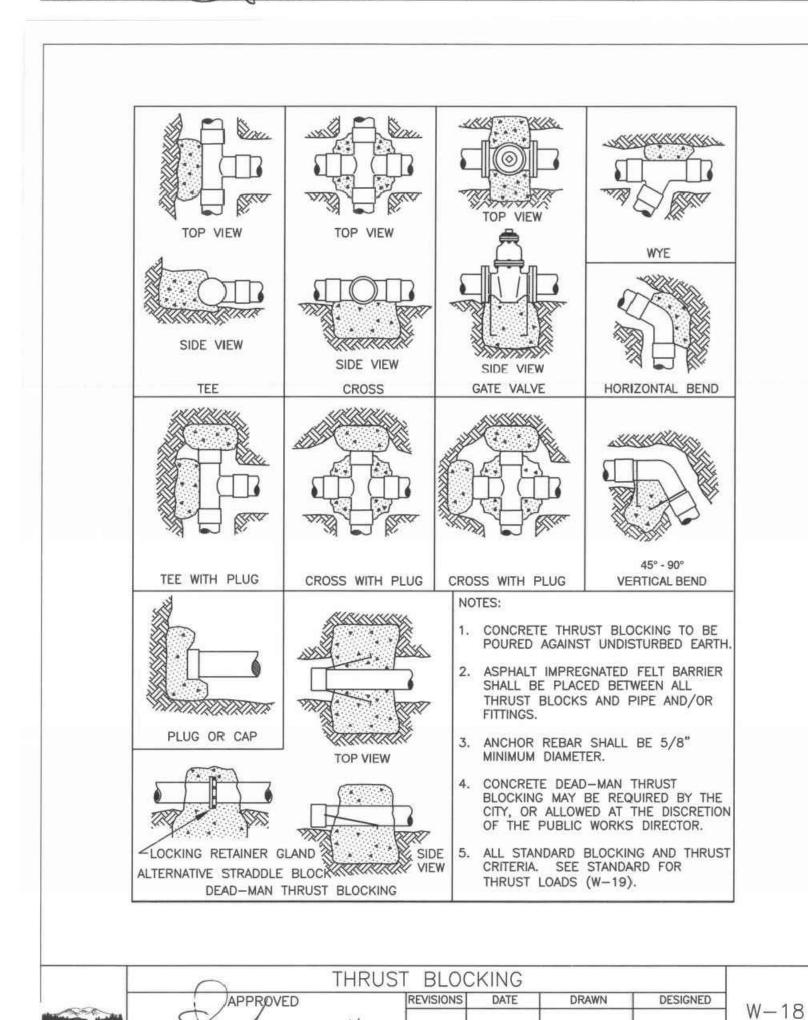
HIGH, HORIZONTAL

HB HOSE BIB



- 1. IN GENERAL, FIRE HYDRANT LOCATIONS SHALL BE AS SHOWN ON THE PLANS AND SHALL CONFORM TO THIS DETAIL. FIRE HYDRANTS SHALL NOT BE SET UNTIL LOCATION AND DEPTH ARE APPROVED BY THE CITY OF WOODLAND PUBLIC WORKS DEPARTMENT.
- 2. FIRE HYDRANT INSTALLATION SHALL BE APPROVED BY THE CITY OF WOODLAND PUBLIC WORKS
- DEPARTMENT PRIOR TO BACKFILLING. HYDRANT TO BE WATEROUS WB67 CLASS 250.
- 4. HYDRANT TO BE 5-1/4" COMMERCIAL W/ (2) 2-1/2" NST, (1) 4-1/2" NST THREADED PORT(S) WITH (1) 5" TWO LUG QUARTER TURN STORZ OR APPROVED EQUAL PUMPER PORT CONNECTION.
- 5. THE FIRE HYDRANT SHALL BE INSTALLED SO THAT IT IS PLUMB IN ALL DIRECTIONS.
- 6. FOUR (4) GUARD POSTS TO BE INSTALLED IN UNPROTECTED AREAS (4' RADIUS).
- 7. FIRE HYDRANTS SHALL BE FACTORY PAINTED OR QUALITY FIELD PAINTED WITH RODDA SILICONE ALKYD ENAMEL HEAVY DUTY GLOSS SAFETY YELLOW 7-32616-1 TO NEW CONDITION.
- 8. HYDRANT STANDARD BURY IS 4' UNLESS OTHERWISE NOTED ON THE PLANS, OR WHEN BREAKAWAY JOINT IS
- INSTALLED 7" ABOVE FINISHED GRADE.
- 9. ALL JOINTS SHALL BE RESTRAINED UTILIZING MECHANICAL RESTRAIN SYSTEMS. CONCRETE THRUST BLOCKS SHALL NOT BE ALLOWED.
- STORZ ADAPTORS ARE REQUIRED.
- 11. INSTALL LOCATING WIRE AND CONNECT TO EXISTING WIRE IF PRESENT.

		FIRE	HYDRA	NT			
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DATE

FOR THIS ZONE OF THE TRENCH SECTION, SEE CITY,

STANDARD STREET REPAIR DETAIL. FOR NON-PAVED

- TRENCH BACKFILL MECHANICALLY COMPACTED TO 95% IN LIFTS NOT EXCEEDING 6". BANK RUN GRAVEL

MOST CURRENT EDITION OF THE

W.S.D.O.T./A.P.W.A. STANDARD

SHALL BE IN ACCORDANCE WITH THE

SPECIFICATIONS. (SECTION 9-03.19)

- PIPE BEDDING IN ACCORDANCE WITH THE MOST CURRENT EDITION OF THE

SPECIFICATIONS (SECTION 7-9.3(9))

W.S.D.O.T./A.P.W.A. STANDARD

COUNTY OR WSDOT RIGHT OF WAY PERMIT OR

LAWN, OR REFER TO APPROVED DRAWINGS.

PIPE

MAX

1. CLEAN NATIVE MATERIAL MAY BE USED AS PIPE BEDDING AND TRENCH

BACKFILL AS APPROVED BY CITY OF WOODLAND PUBLIC WORKS.

WATER PIPE TRENCH BEDDING & BACKFILL

DATE

DRAWN

SURFACES, MATCH EXISTING GRAVEL OR SEEDED

THRUST LOADS

THRUST AT FITTINGS IN POUNDS AT 200 POUNDS PER SQUARE INCH OF WATER PRESSURE

PIPE DIAMETER	90° BEND	45* BEND	22-1/2* BEND	11-1/4* BEND	DEAD END OR TEE
4"	3,600	2,000	1,000	500	2,600
6"	8,000	4,400	2,300	1,200	5,700
8"	14,300	7,700	4,000	2,000	10,100
10"	22,300	12,100	6,200	3,100	15,800
12"	32,000	17,400	8,900	4,500	22,700
14"	43,600	23,600	12,100	6,100	30,800
16"	57,000	30,800	15,700	7,900	40,300

NOTES:

- 1. BLOCKING SHALL BE COMMERCIAL CONCRETE POURED IN PLACE AGAINST UNDISTURBED EARTH. FITTING SHALL BE ISOLATED FROM CONCRETE THRUST BLOCK WITH ASPHALT IMPREGNATED FELT OR SIMILAR MATERIAL.
- 2. TO DETERMINE THE BEARING AREA OF THE THRUST BLOCK IN SQUARE FEET (S.F.): EXAMPLE: 12" - 90" BEND IN SAND AND GRAVEL 32,000 LBS 3000 LB/S.F. = 10.7 S.F. OF AREA
- 3. AREAS MUST BE ADJUSTED FOR OTHER PIPE SIZE, PRESSURES AND SOIL CONDITIONS.
- 4. BLOCKING SHALL BE ADEQUATE TO WITHSTAND FULL TEST PRESSURE AS WELL AS TO CONTINUOUSLY WITHSTAND OPERATING PRESSURE UNDER ALL CONDITIONS OF

SAFE SOIL BEARING LOADS

FOR HORIZONTAL THRUSTS WHEN THE DEPTH OF COVER OVER THE PIPE EXCEEDS 2 FEET

SOIL	POUNDS PER SQUARE FOOT		
MUCK, PEAT	0		
SOFT CLAY	1,000		
SAND	2,000		
SAND & GRAVEL	3,000		
SAND & GRAVEL CEMENTED WITH CLAY	4,000		
HARD SHALE	10,000		

		THRU	IST LOA	DS			
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DATE

REVIEWED BY:

GENERAL NOTES FOR SANITARY SEWER

ALL MATERIALS AND INSTALLATION OF SANITARY SEWERS SHALL BE IN CONFORMANCE WITH THE MOST CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION, HEREINAFTER REFERRED TO AS THE "STANDARD SPECIFICATIONS", PREPARED BY THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION, EXCEPT AS NOTED HEREIN OR ON THE STANDARD PLANS. WHEREVER THE STANDARD SPECIFICATIONS REFER TO THE OWNER AS EITHER THE "STATE" OR "SECRETARY" OR WHEN REFERENCE IS MADE TO THE DEPARTMENT OF TRANSPORTATION IT SHALL BE UNDERSTOOD THAT THE STANDARD SPECIFICATIONS SHOULD READ THE "CITY".

ALL SANITARY SEWER CONSTRUCTION IS SUBJECT TO INSPECTION AND APPROVAL BY THE CITY OF WOODLAND PUBLIC WORKS DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE CITY AT (360) 225-7999 AT LEAST 48-HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION CONFERENCE MAY BE REQUIRED.

THE CONTRACTOR IS REQUIRED TO NOTIFY ALL UTILITIES 48 HOURS PRIOR TO COMMENCEMENT OF WORK. THE CONTRACTOR MUST CONTACT THE UNDERGROUND UTILITY NOTIFICATION CENTER "CALL BEFORE YOU DIG" AT (800) 424-5555 OR "811".

FINAL ACCEPTANCE OF SANITARY SEWERS ARE SUBJECT TO SECTIONS 1-05.11, 1-05.12, 7-17.3(2)E, 7-17.3(2)F, 7-17.3(2)G AND 7-17.3(2)H OF THE STANDARD SPECIFICATIONS. TELEVISION INSPECTION SHALL INCLUDE VIDEO OF ALL MANHOLES IN ADDITION TO THE PIPE. THE CONTRACTOR SHALL WARRANTY ALL WORK DONE UNDER CITY CONTRACT FOR A PERIOD OF TWO (2) YEARS AS PER OF THE CITY OF WOODLAND GENERAL PROVISIONS FOR MUNICIPAL CONSTRUCTION.

LOCAL VARIATIONS IN SLOPE (I.E. "BELLIES") MUST BE NO MORE THAN 1/2" MAXIMUM. VARIATIONS IN EXCESS OF THESE TOLERANCES MUST BE REPAIRED AT THE CONTRACTOR'S EXPENSE TO THE SATISFACTION

- ALL PIPE AND FITTINGS SHALL CONFORM TO THE FOLLOWING:
- A. POLYVINYL CHLORIDE (PVC) SEWER PIPE 15" DIAMETER OR LESS SHALL CONFORM TO ASTM D3034, SDR 35. IT SHALL HAVE A MINIMUM PIPE STIFFNESS OF 46 PSI. PVC PIPE 18" DIAMETER SHALL CONFORM TO ASTM F 679. ALL PVC PIPE SHALL HAVE AN INTEGRAL BELL GASKETED JOINT WITH
- ELASTOMERIC GASKET AND SHALL BE FURNISHED IN 12-1/2 FOOT LAYING LENGTHS. B. DUCTILE IRON (DI) PIPE SHALL CONFORM TO ANSI A21.51 OR AWWA C151, WITH PUSH-ON JOINTS, CLASS 52, UNLESS OTHERWISE NOTED.

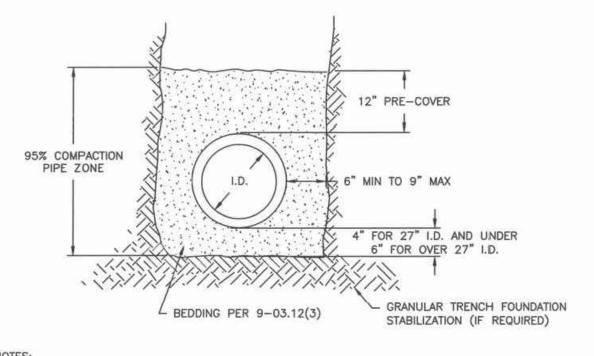
INSTALLATION OF PIPE AND MANHOLES SHALL CONFORM TO THE FOLLOWING: A. PIPE SHALL BE INSTALLED IN CONFORMANCE WITH PIPE DETAIL S-02 AND TRENCHING DETAIL S-03. B. MANHOLES SHALL CONFORM WITH STANDARD DETAILS S-07 THROUGH S-14.

MANHOLES, CLEANOUTS, SERVICE LATERAL CONNECTIONS, TRENCH EXCAVATION, PIPE BEDDING AND STREET RESTORATION, AND APPURTENANCES SHALL CONFORM TO THE CITY OF WOODLAND STANDARD PLANS, THE WSDOT STANDARD DETAILS CONTAINED AND THE STANDARD PLANS FOR ROAD, BRIDGE AND MUNICIPAL

THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS OF ALL PERMITS ISSUED OR EASEMENTS GRANTED TO THE CITY IN CONJUNCTION WITH THE CONSTRUCTION OF SANITARY SEWERS. THE CONTRACTOR SHALL OBTAIN A RIGHT-OF-WAY PERMIT FOR WORK WITHIN THE PUBLIC RIGHT-OF-WAY.

THE CONTRACTOR SHALL SUBMIT AN APPROVED TRAFFIC CONTROL PLAN. APPROVAL SHALL BE OBTAINED PRIOR TO BEGINNING CONSTRUCTION.

	GENERAL	NOTES	FOR S	SANITARY	SEWER		
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- 1. WHERE DIRECTED BY THE ENGINEER GRANULAR TRENCH FOUNDATION STABILIZATION SHALL BE PLACED PRIOR TO PLACEMENT OF THE BEDDING. SIZE AND DEPTH ARE DEPENDENT ON SOIL
- 2. BEDDING AND BACKFILL MATERIALS IN THE PIPE ZONE SHALL BE COMPACTED AS SPECIFIED PRIOR TO BACKFILLING THE REMAINDER OF THE TRENCH.
- 3. FOR ROCK AND OTHER INCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVER-EXCAVATED A MINIMUM OF 6" AND REFILLED WITH GRANULAR MATERIALS AS DIRECTED BY THE ENGINEER.
- 4. BACKFILL AND COMPACTION ABOVE THE PIPE ZONE SHALL BE AS SHOWN IN TRENCHING DETAIL
- 5. PVC PIPE INSTALLATION SHALL CONFORM TO UNIBELL PLASTIC PIPE ASSOCIATION STANDARD SPEC. UNI-B-5 (LATEST EDITION) EXCEPT AS NOTED.
- 6. FINAL INSTALLATION TO BE TESTED PER SECTION 7-17.3 OF THE STANDARD SPECIFICATIONS.
- 7. ALTERNATIVE PRE-COVER MATERIALS ARE ALLOWABLE FROM PIPE CENTERLINE TO ONE FOOT ABOVE THE TOP OF PIPE, ALTERNATE PRE-COVER MATERIALS MUST BE PRE-APPROVED BY THE INSPECTOR AND MAY BE SAND, CRUSHER SCREENINGS, GRAVEL, OR OTHER CLEAN GRANULAR MATERIAL CONTAINING NO ROCK LARGER THAN 1-1/4" IN LENGTH.
- APPROVAL FOR ALTERNATE MATERIALS WILL BE GRANTED UPON CONFIRMATION BY TEST OF ITS COMPLIANCE WITH THESE REQUIREMENTS. SUBMIT 50 LB SAMPLE FOR TESTING TO THE CITY INSPECTOR AND OBTAIN MATERIAL PRIOR TO STARTING PIPE INSTALLATION WORK. THE TEST REQUIRES A MINIMUM OF FIVE BUSINESS DAYS TO COMPLETE.
- 8. TRENCH WIDTH SHALL NOT EXCEED ONE AND ONE-HALF THE INSIDE DIAMETER OF THE PIPE PLUS 18" AT THE TOP OF THE PIPE ZONE. ANY SUBSIDENCE OF SURROUNDING PAVEMENT DUE TO TRENCHING SHALL BE EXCAVATED BEYOND ORIGINAL PAVEMENT OR TRENCH LIMITS AND REPAIRED TO SATISFACTION OF THE CITY OF WOODLAND.
- 9. NATIVE MATERIAL MAY BE USED, OUTSIDE OF THE ROAD PRISM FOR DUCTILE IRON IN LIEU OF IMPORTED MATERIAL FOR BEDDING SPECIFIED, PROVIDED THAT THE NATIVE MATERIAL CONFORMS TO SECTION 9-03.15 OF THE STANDARD SPECIFICATIONS, AND AS APPROVED BY THE CITY OF WOODLAND. THE CONTRACTOR SHALL SUBMIT A SAMPLE OF THE NATIVE MATERIAL TO THE CITY OF WOODLAND AT LEAST 72-HOURS PRIOR TO USE. THE CITY MAY APPROVE, REJECT, OR REQUIRE LABORATORY TESTING OF THE MATERIAL.

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