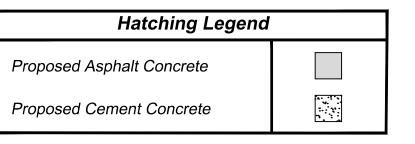
Project No. 3264

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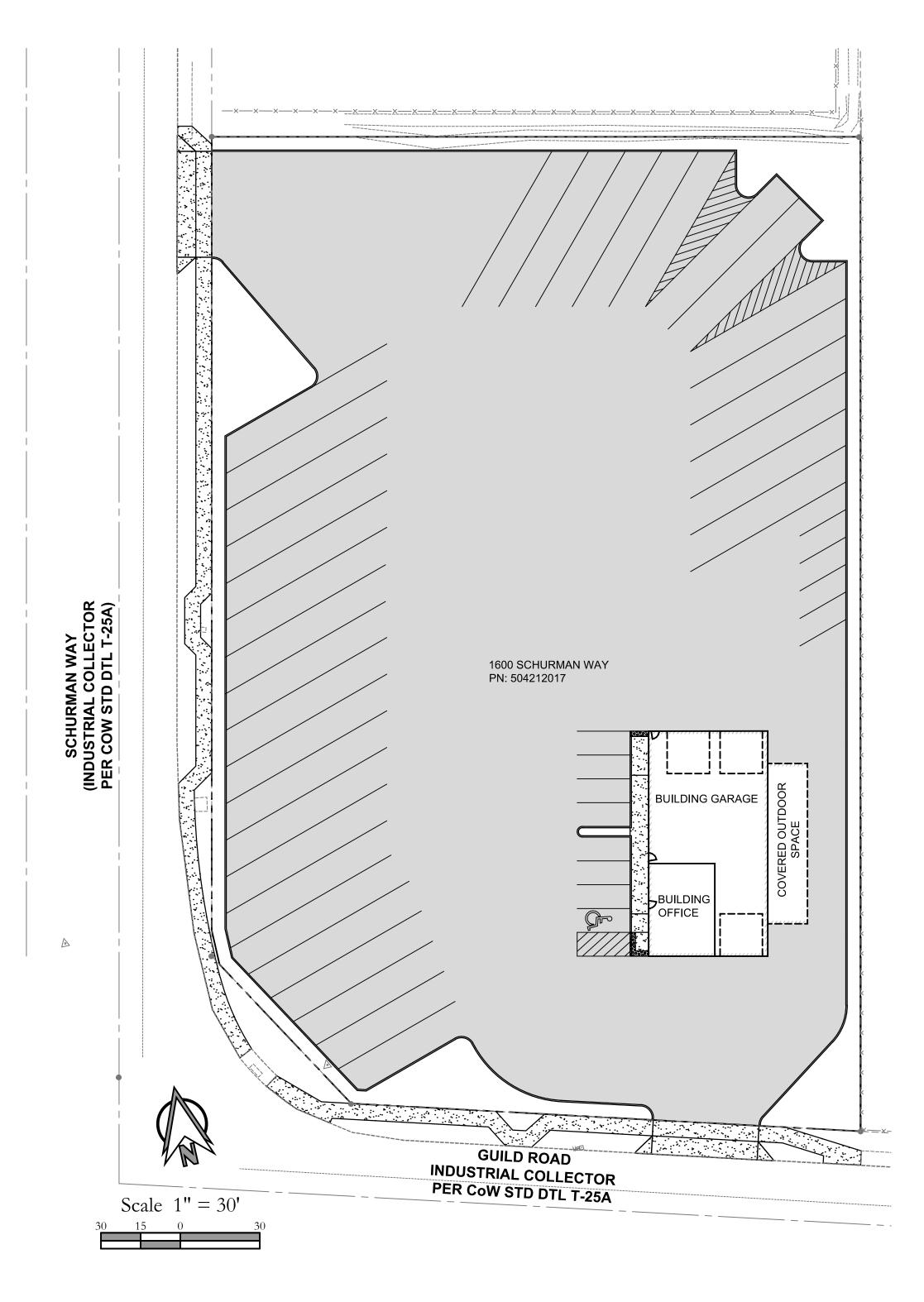
Schurman Way Site Plan LOCATED IN THE NW $\frac{1}{4}$ OF THE SW $\frac{1}{4}$ OF SECTION 13, T. 5 N., R. 1 W., W.M.,

CITY OF WOODLAND, WASHINGTON



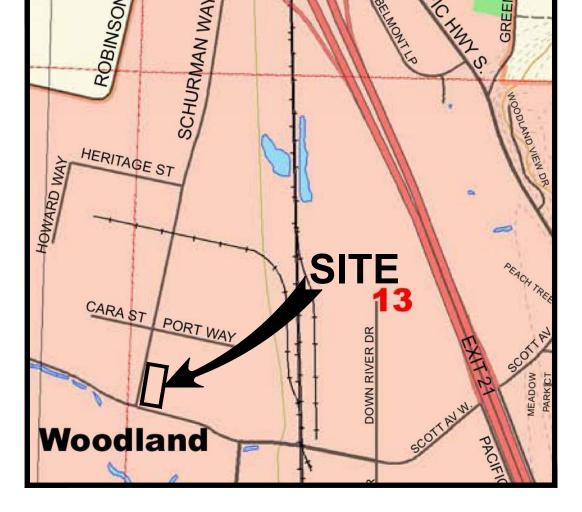
		7
Symbol Legend		1
Existing Water Valve	₩V ×	1
Existing Fire Hydrant	>	1
Existing Power Pole	P	1
Existing Water Meter		1
Existing Electrical Pedestal	6	1
Existing Sanitary Manhole	\circ	
Existing Storm Manhole	0	
Existing Catch Basin		
Existing Vertical Pipe	S ^{VP}	
Existing Street Luminaire	×	
Existing Telephone Pad	IP	
Existing Cleanout	0	
Existing Irrigation Meter	•	
Proposed Storm Manhole	•	
Proposed Sanitary Cleanout	0	
Proposed Sanitary Manhole	0	
Proposed Water Meter	□	
Proposed Water Backflow Device	-	
Proposed Water Valve	l⊗l	
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Proposed 2" Blow Off Assembly]⊗0∢[
Proposed Water 45° Bend W/tb	<	
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Proposed Monument	•	
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Proposed Catch Basin		
Proposed Fire Hydrant	> 4	

Linetype L	egend
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Extg Gas Line	
Extg Irrigation Line	IRR IRR
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Existing Centerline	
Existing Curb	
Existing Lot Line	
Existing Gravel road	
Existing Right-of-way	
Existing Fence	xxx
Existing Property Line	
Existing Utility Easement	
Existing Contour	253
Proposed Sanitary Sewer Pipe	
Proposed Storm Rain Drain	
Proposed Storm Pipe	
Proposed Water Lateral	
Proposed Water Pipe	
Proposed Lot Line	
Proposed Centerline	
Proposed Right-of-way	
Proposed Sawcut Line	
Proposed Easement	
Proposed Curb & Gutter	
Future Sidewalk	
Proposed Sidewalk	
Proposed Property Line	
Proposed Contour	253
Proposed Irrigation Pipe	
Proposed Irrigation Lateral	



UTILITY COMPANY AND EMERGENCY CONTACTS:

City of Woodland (360) 225-7999 (360) 225-7999 Woodland Public Works Woodland Police Department (360) 225-6965 (800) 788-9140 Frontier Communications NW (360) 577-7546 Cowlitz County PUD (Electric) Clark County Fire and Rescue (360) 887-4609 (360) 225-8281 City of Woodland (Water & Sewer) Cascade Natural Gas-Longview (360) 423-1598 **Utility Locates** (800) 424-5555



VICINITY MAP NOT TO SCALE

GENERAL NOTES

OWNER: MML Enterprises LLC 7416 NE 101st St Vancouver, WA 98662

APPLICANT: MML Enterprises LLC 7416 NE 101st St

Vancouver, WA 98662

CIVIL ENGINEER: PLS Engineering Contact: Travis Johnson, PE 604 W Evergreen Blvd Vancouver, WA 98660 PH: (360) 944-6519 pm@plsengineering.com

SITE LOCATION: Parcel: 504202017 Address: 1600 Schurman Way Woodland, WA 98674

Public Water Purveyor = COW

Public Sewer Purveyor = COW

Boundary and topographic survey data shown on the plan was prepared by PLS Engineering.

Horizontal Datum:

NAD 83 2011 (2010.00 EPOCH), Washington State Plane, South Zone, U.S. survey feet, derived from RTK ties utilizing the Washington State reference network (WSRN)

Vertical Datum:

NAVD88 derived from RTK ties utilizing the Washington State reference netwrok (WSRN)

If any cultural or historical resources are discovered during construction activity, construction shall cease until a qualified archaeologist assesses the find.

Sheet Index

- 1. Cover Sheet
- 2. General Notes 3. Existing Conditions Plan
- 4. Final Site Plan
- 5. Mass Grading and Erosion Control Plan
- 6. Detailed Grading Plan 7. Utility Plan
- 8. Schurman Way Plan and Profile
 9. Guild Road Plan and Profile

10. Miscellaneous Details

- 11. City of Woodland Erosion Control Details

- 12. City of Woodland Drainage Details
 13. City of Woodland Sanitary Sewer Details
 14. City of Woodland Water and Transportation Details
 15. City of Woodland Transportation Details
- 16. Site Illumination & Photometric Plan
 17. Landscaping Plan L1

Know what's **below. Call** before you dig

City Of Woodland Water, Sewer, Street & Storm Drainage Approved

ORAFTED BY:

REVIEWED BY:

GENERAL NOTES

Boundary and topographic information prepared by PLS Engineering. Actual location of existing infrastructure to be verified by Contractor. Vertical Datum NAVD 88 (GEOID 2012B) based on real time kinematic corrections from the Washington State Reference Network.

Existing utilities shown on the plans are based on available information, 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 Woodland (grading and drainage, water & sewer).

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.

A minimum of 2 working days prior to beginning construction the Contractor shall call 1-800-424-5555 (Northwest Utility Coordinating Center) and the City of Woodland for markup of existing utilities.

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

The applicant may be required to provide flagging, signs, and other traffic control devices for safe truck access onto public and private 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.

A traffic control plan shall be submitted to the City of Woodland for review 10 days prior to implementation.

The contractor 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 Woodland permit is required prior to beginning construction activities.

The contractor shall keep a legible, approved set of plans on the project site at all times. Deviations from the plans will require a request from the applicant's engineer and approval from the City of Woodland.

If any cultural resources are discovered in the course of undertaking a development activity, the Office of Archeology and Historic Preservation (DAHP) in Olympia and the City inspector shall be notified. Failure to comply with these requirements may constitute a Class C felony, subject to imprisonment and/or fine. Construction in the immediate vicinity of the resources shall be stopped until further direction is provided by the City and/or the State DAHP.

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

STORM

Material certification for all storm manholes, catch basins, and curb inlets to be provided to the City of Woodland inspector.

Roof drain piping shall be D-3034 PVC pipe or as approved by the Project Engineer.

Storm pipes shall be per size and slope specified on drawings.

Materials for storm sewer pipes shall be Corrugated Polyethylene Storm Sewer Pipe unless otherwise specified.

Trench excavation shall meet the requirements of WSDOT Standard Specifications Section 7-08.3(1).

STREET

Contractor shall provide certificate of compliance per 2016 WSDOT Standard Specifications 6-02.3(5)A & B to City of Woodland inspector.

All utilities are to be located out of sidewalk section and are to be underground where possible.

WATER

Contractor to contact City of Woodland Operations Department at (360) 225-7999 for fire flow test prior to engineering acceptance.

The City of Woodland requires water meters to be purchased from and installed by the Public Works Department and installed with the City's inspector present. Call (360) 225-7999 to purchase a meter.

SANITARY SEWER

See City of Woodland Sanitary Sewer Details S-01 and S-02 located on Sheet 13 for construction requirements.

SITE GRADING

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

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 Woodland requirements such as; a drainage erosion control plan, a schedule of construction operations and any other pertinent data relative to site earth work.

The Contractor shall notify Woodland five (5) business days prior to starting any grubbing, grading or stockpiling work.

Vegetated areas slated for construction are to be stripped to remove all grass, roots, organic soil, and construction fill debris prior to the beginning of any grading operations. The contractor shall salvage and stockpile enough select top soil to accommodate landscaping needs.

Exposed subgrade soils on areas to receive structural fill should be scarified to a depth of 8 inches.

Fill areas shall be structurally filled with surplus suitable materials from cut areas or imported structural fill. Select materials shall be placed and compacted in fill areas in lifts not to exceed 12".

Imported materials, if needed, shall be inspected by a soils engineer prior to their use as

All compaction testing shall be done per the City of Woodland Standard Specifications. In addition, all work to be completed within the Woodland right-of-way shall conform to Woodland requirements.

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.

All surfaces shall be graded smooth and free of irregularities that might accumulate surface water.

All grading operations and disturbed surface stabilization shall be in accordance with the project Grading and 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

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.

EROSION AND SEDIMENT CONTROL

This approval is based on the City of Woodland's requirements only. The developer/contractor is responsible for acquiring and complying with any necessary State and Federal permits prior to beginning any construction on the site.

It is the contractor's responsibility to comply with the Construction Stormwater NPDES Permit issued by the Washington Dept. of Ecology for this project including inspection & reporting requirements.

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.

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.

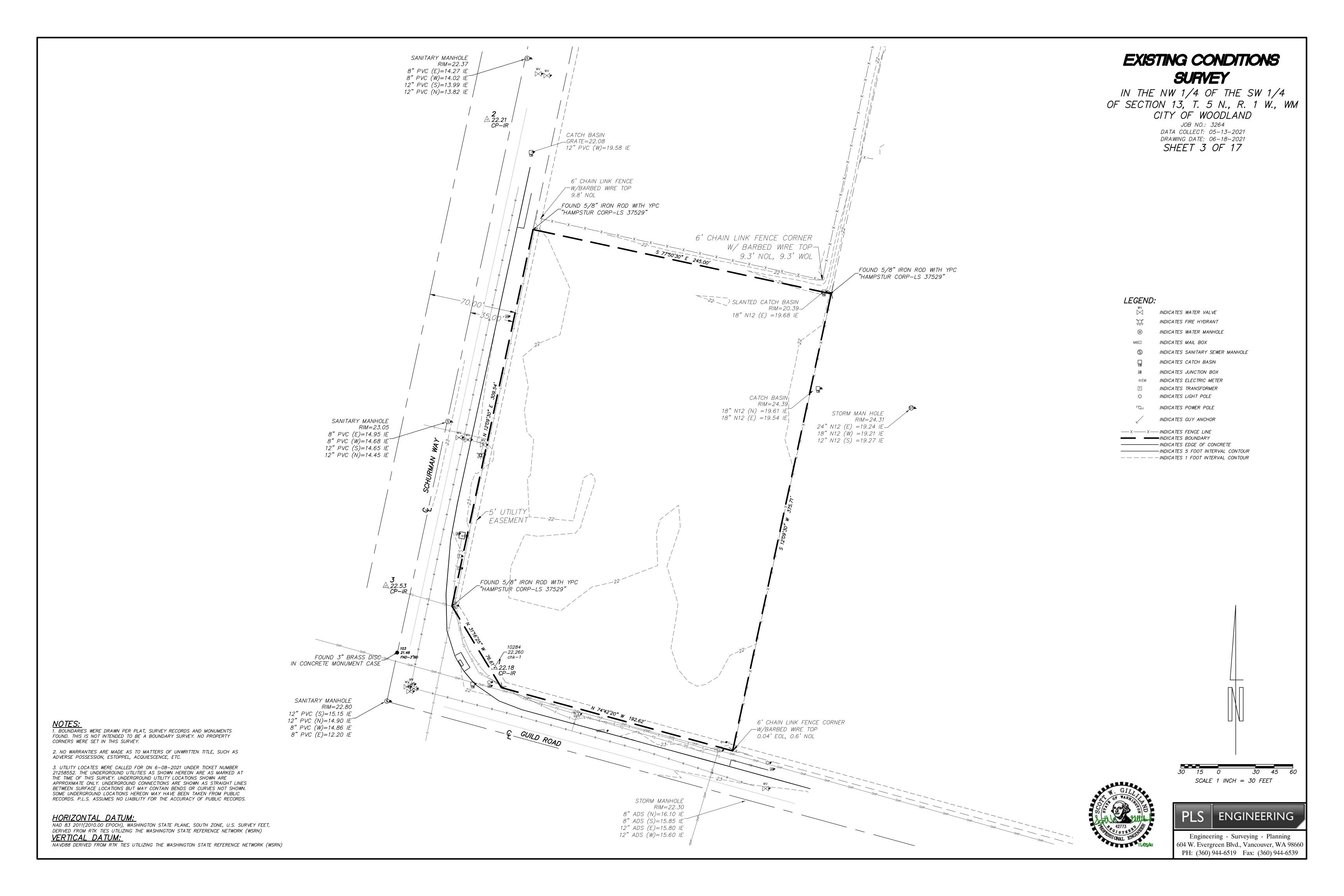
If sediment is transported onto a paved surface, the surface is to be cleaned thoroughly at the end of each day during dry weather and immediately during rain events.

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



Chargii *Note:

Schurman Way Site Plan

LOCATED IN THE NW 1/4 OF THE SW 1/4 OF SECTION 13, T. 5 N., R. 1 W., W.M., CITY OF WOODLAND, WASHINGTON

ROBINSO	SCHURMAN WA		ETHOMITE CH	S-NN S-S-NN GREE
HOWARD WAY	EST			WOODLAND VIEW DR
CARA ST	PORT WAY	SIT		PEACH TREE
			DOWN RIVER DR	MEADOW ON THE PARKET
Woodl	and	1	55001	PACIFIC

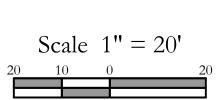
OWNER: MML Enterprises LLC 7416 NE 101st St Vancouver, WA 98662

APPLICANT: MML Enterprises LLC 7416 NE 101st St Vancouver, WA 98662

CIVIL ENGINEER: PLS Engineering Contact: Travis Johnson, PE 604 W Evergreen Blvd Vancouver, WA 98660 PH: (360) 944-6519 travis@plsengineering.com

SITE LOCATION: Parcel: 504202017 Address: 1600 Schurman Way Woodland, WA 98674

SITE AREA: Extg Site Area: 89,015.50 SF (2.04 Acres) **ROW Dedication: 14.37 SF (0.00 Acres)** Developed Site Area: 89,015.50 SF (2.04 Acres)

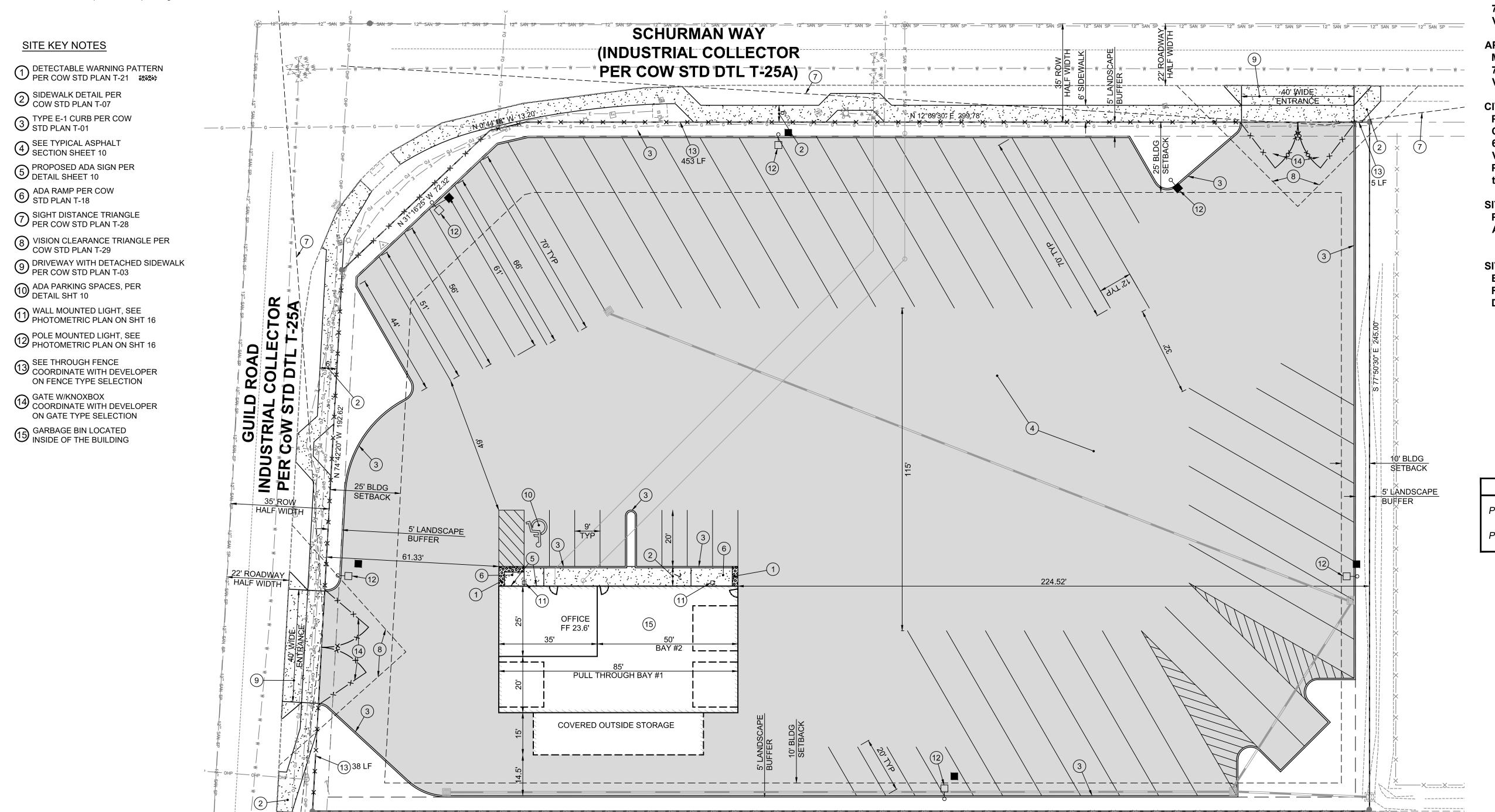


Legend	
Proposed Asphalt Concrete	
Proposed Cement Concrete	

Project No. 3264 SCALE: H: N/A V: N/A DESIGNED BY: DRAFTED BY:

Know what's **below. Call** before you dig

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Spaces (ADA)	1	1		D	OILDING LL	CLIVE	
<u> </u>		·		BUILDING	FLOORS	SQ FT	UNITS
ces with Electric Vehicle rging Infrastructure (E)	-	-					+
Spaces with Electric Vehicle ging Infrastructure (ADA E)	-	-		BUILDING A	2 - Story	4,700	1
e: Truck Storage Areas are not towards required ADA parki		d do not count					
		(p) 12" SAN SP	12" SAN SP	— D' SAN SP —— 12 " S AN -S I	P 12" SAN SP	12" SAN SP	12" SAN SP
TE KEY NOTES			OHP			- -	
DETECTABLE WARNING PATTERN PER COW STD PLAN T-21 。		3	¥ - w		<u> </u>	Ö 	— w —
SIDEWALK DETAIL PER COW STD PLAN T-07		12	— OHP -				
TYPE E-1 CURB PER COW		SANS			0° 44'1	3" W. 13.20'	<u>÷</u> Ε − ×



S 12°09'30" W 375.71'

VICINITY MAP NOT TO SCALE **GENERAL NOTES**

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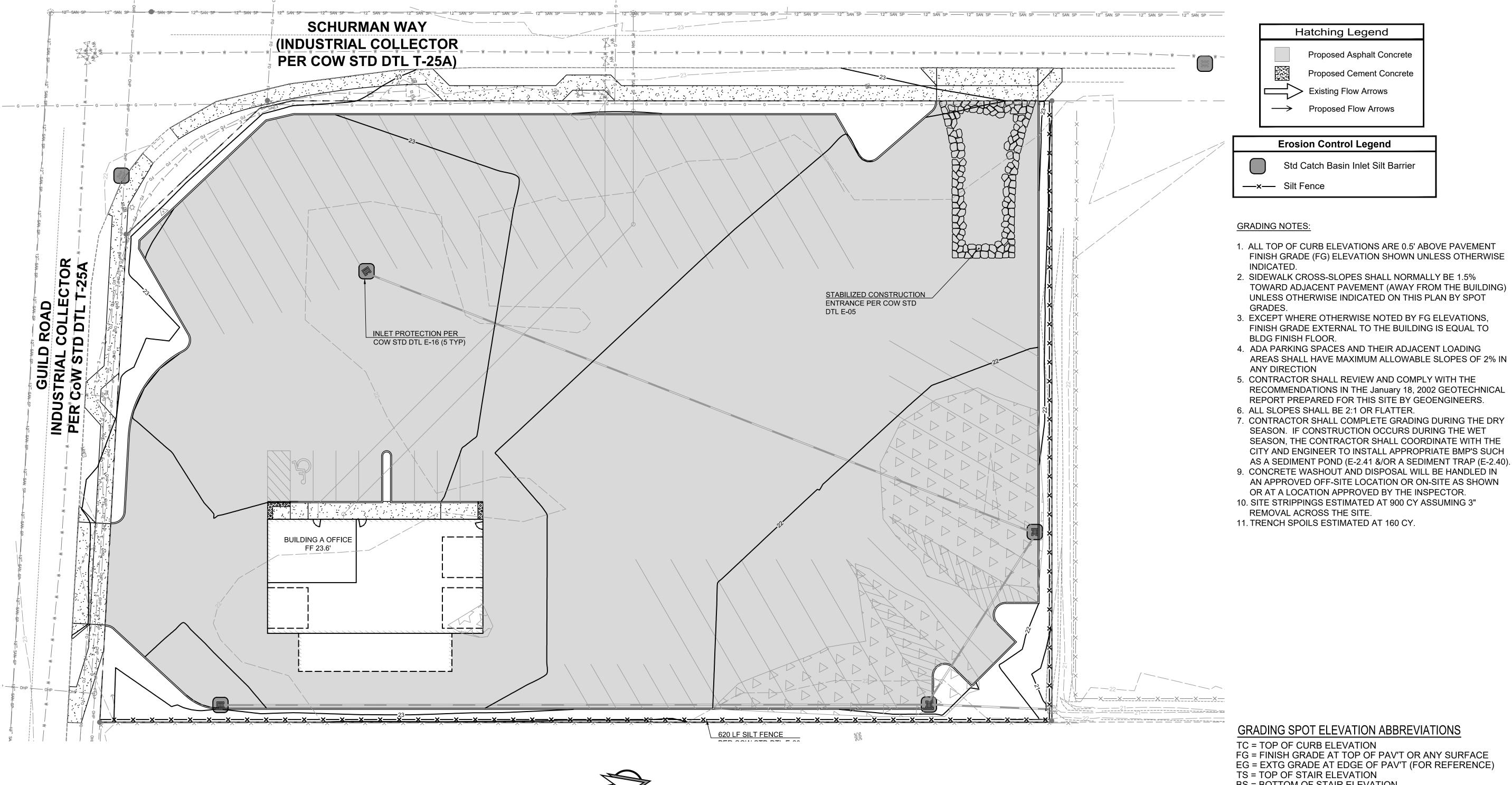
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- 0 w 4 v c well.

Project No. 3264

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

Know what's **below. Call** before you dig.



Scale 1'' = 20'

SEASON. IF CONSTRUCTION OCCURS DURING THE WET SEASON, THE CONTRACTOR SHALL COORDINATE WITH THE

Hatching Legend

Existing Flow Arrows

→ Proposed Flow Arrows

Erosion Control Legend

Std Catch Basin Inlet Silt Barrier

Proposed Asphalt Concrete

Proposed Cement Concrete

GRADING SPOT ELEVATION ABBREVIATIONS TC = TOP OF CURB ELEVATION FG = FINISH GRADE AT TOP OF PAV'T OR ANY SURFACE EG = EXTG GRADE AT EDGE OF PAV'T (FOR REFERENCE) TS = TOP OF STAIR ELEVATION BS = BOTTOM OF STAIR ELEVATION

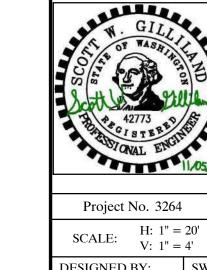
CONSTRUCTION ENTRANCE NOTE: A STABILIZED CONSTRUCTION ENTRANCE PER CITY STANDARD DETAIL E-1.05 WILL BE REQUIRED IF CONSTRUCTION VEHICLES WILL BE TRAVELING FROM ANY UNSTABILIZED (NOT PAVED OR GRAVELED) AREA ADJACENT ROADS OR PARKING AREAS.

UNADJUSTED VOLUMES

CUT VOLUME = 710 CUBIC YARDS

FILL VOLUME = 820 CUBIC YARDS

UNADJUSTED VOL	.UMES
Approximate Areas of CUT Greater Than 1'	
Approximate Ares of FILL Greater Than 1'	



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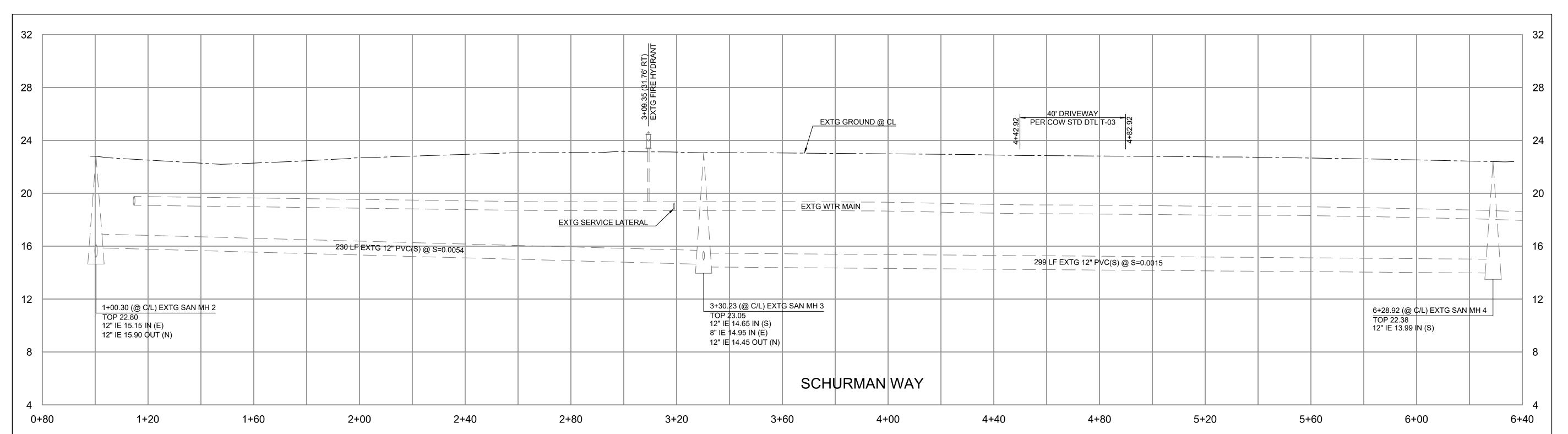
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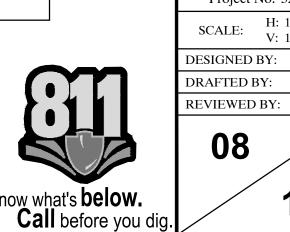
Underground utility locations are estimated based on Asbuilts and standard construction practice. The design shall be adjusted to accommodate any variations from what is

shown on these plans. If there are significant discrepancies the contractor shall notify the City and the Engineer.



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1 2 6 4 6 6

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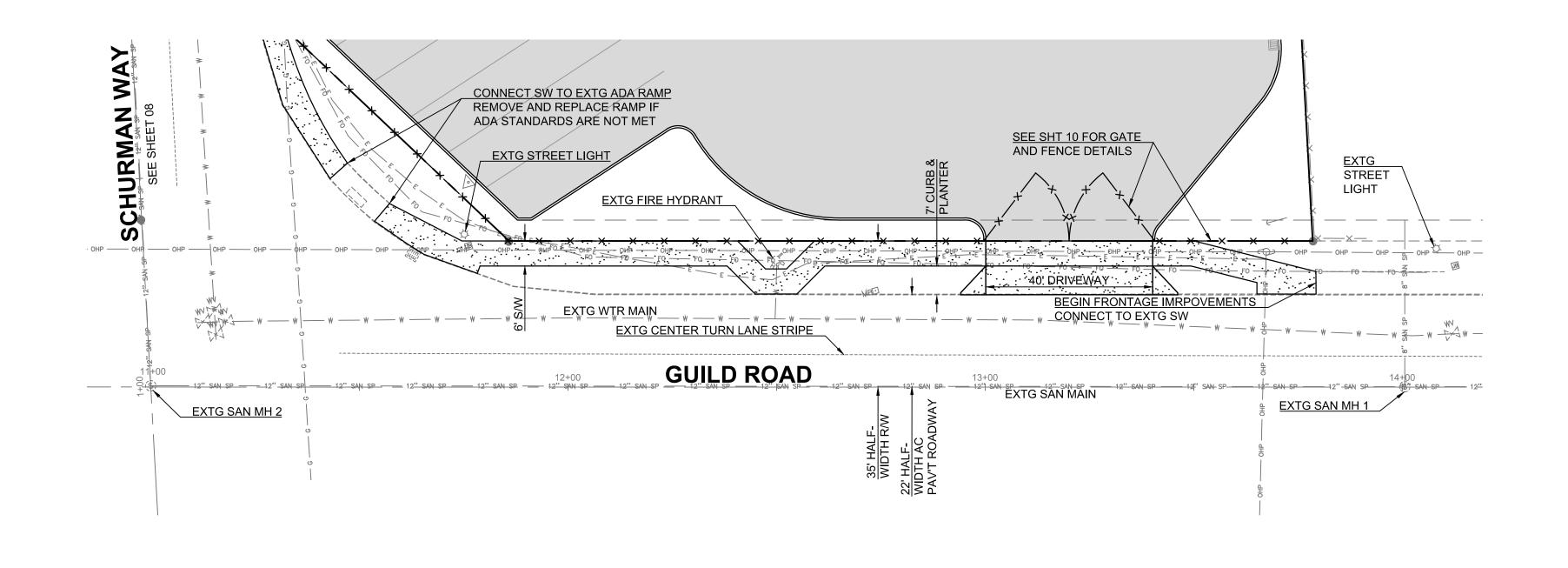
Project No. 3264

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Project No. 3264

SCALE: H: 1'' = 20'V: 1'' = 4'DESIGNED BY: DRAFTED BY: REVIEWED BY:



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	1+00.30 (@ C/L) EXTG SAN MH 2 TOP 22.80 12" IE 15.15 IN (E) 12" IE 15.90 QUT (N)	

12+40

12+80

13+20

13+60

14+00

14+40

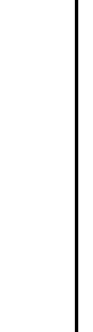
11+20

11+60

12+00

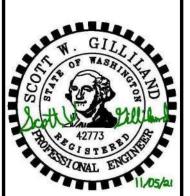
10+80



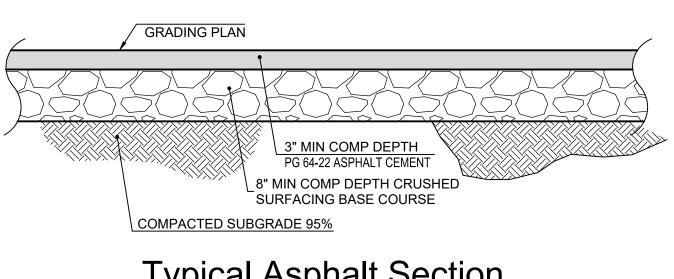


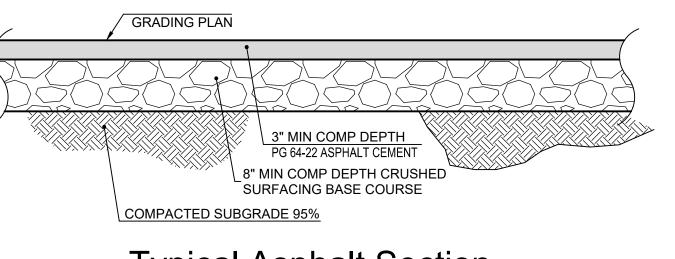
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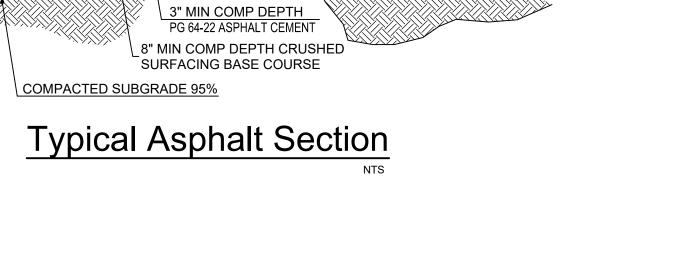


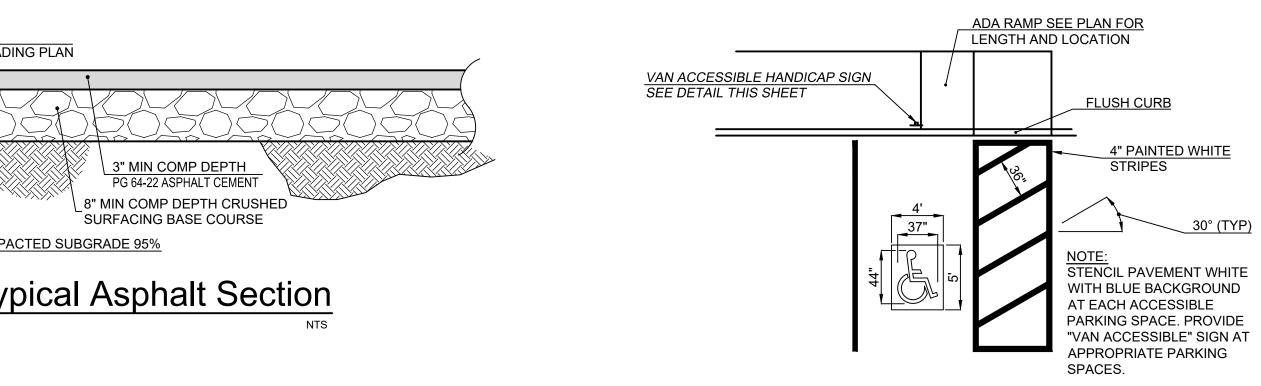
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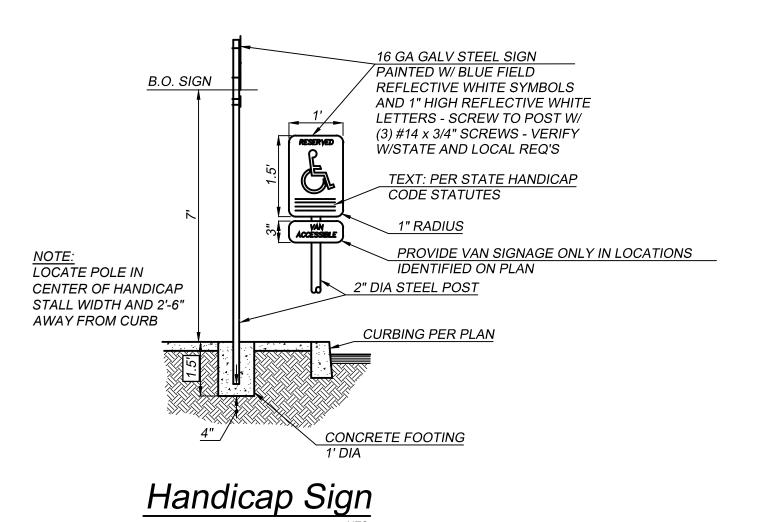






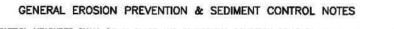


Handicap Space



Project No. 3264

SCALE: V: N/A DESIGNED BY: DRAFTED BY: REVIEWED BY:



- 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 AND PRIOR TO COMMENCEMENT OF WORK.
- 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.
- 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 SEVEN (7) DAYS.
- 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.
- 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.
- 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 REMOVED IMMEDIATELY.
- 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.
- 18. CONSTRUCTION ROADS AND PARKING AREAS SHALL BE STABILIZED WHEREVER THEY ARE CONSTRUCTED, WHETHER PERMANENT OR TEMPORARY, FOR THE USE OF CONSTRUCTION TRAFFIC.
- 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 BMPs 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 BMP8 ARE NO LONGER NEEDED. TRAPPED SEDIMENT SHALL BE REMOVED OR STABILIZED ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED. DUST CONTROL
- 20. In areas subject to surface and air movement of dust one or more of the following preventative measures shall be taken for dust control:

 A. Minimize the period of soil exposure through the use of temporary ground cover and other temporary stabilization practices.

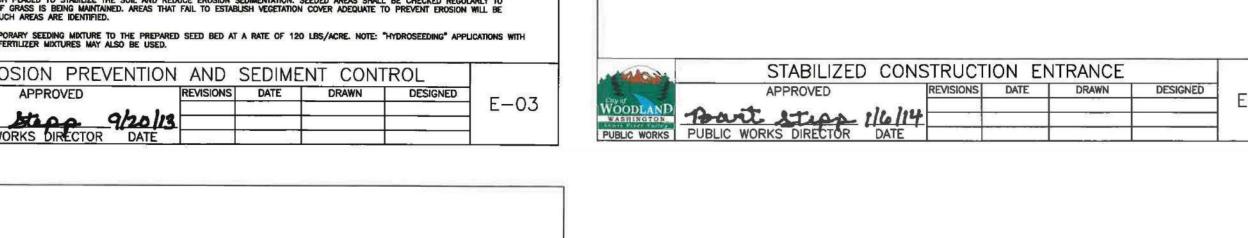
 B. Sprinkle the site with water until the surface is wet.

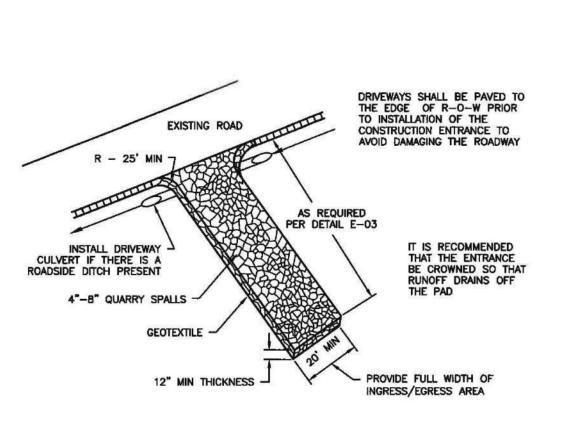
 C. Spray exposed soil areas with a dust palliative. Note: use of petroleum products or potentially hazardous materials are prohibited
- 21. EXPOSED SURFACES THAT WILL NOT BE BROUGHT TO FINAL GRADE OR GIVEN A PERMANENT COVER TREATMENT WITHIN 30 DAYS OF THE EXPOSURE SHALL HAVE SEED MIX AND MULCH PLACED 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 RESEEDED AS SOON AS SUCH AREAS ARE IDENTIFIED.
- 22. APPLY AN APPROVED TEMPORARY SEEDING MIXTURE TO THE PREPARED SEED BED AT A RATE OF 120 LBS/ACRE, NOTE: "HYDROSEEDING" APPLICATIONS

APPROVED SEED-MULCH-FERTILIZER		,	The section of the section

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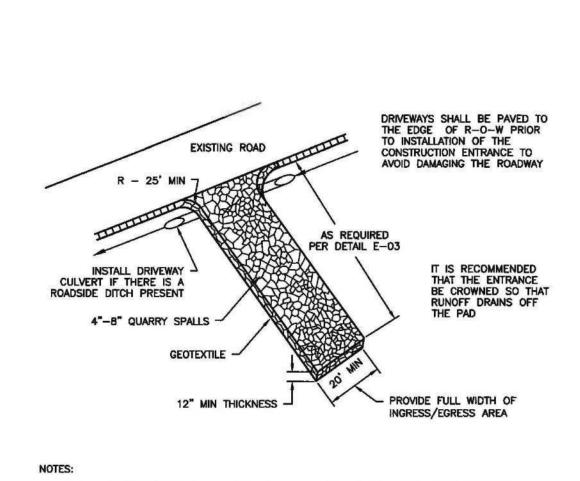
Maria Company	EROSION	PREVENTION	AND	SEDIMEN	IT CONT	ROL	
and the second	APPRO	VED	REVISIONS	DATE	DRAWN	DESIGNED	F 07
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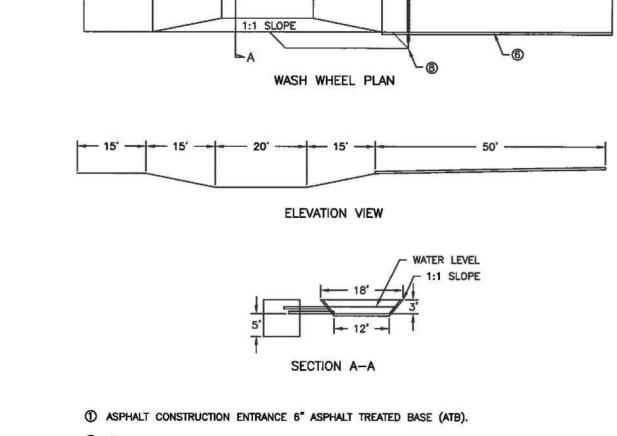




- 1. IF THE ENTRANCE SITS ON A SLOPE, PLACE A FILTER FABRIC FENCE DOWN GRADIENT.
- 2. TOP DRESS THE PAD WITH CLEAN 3" MINUS ROCK WHEN THE CONSTRUCTION ENTRANCE BECOMES CLOGGED WITH SEDIMENTS.
- ANY SEDIMENT CARRIED FROM THE SITE ONTO THE STREET SHALL BE CLEANED UP
- IF EQUIPMENT TRAVELS EXTENSIVELY ON UNSTABILIZED ROADS ON THE SITE, A TIRE AND VEHICLE UNDERCARRIAGE WASH NEAR THE ENTRANCE WILL BE NEEDED. PERFORM WASHING ON CRUSHED ROCK. WASH WATER WILL REQUIRE TREATMENT IN A SEDIMENT POND OR

Man	STABILIZED CON	STRUCTI	ON EN	ITRANCE		
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5:1 SLOPE

- 2" SCHEDULE 40

FOR SPRAYERS

2% SLOPE

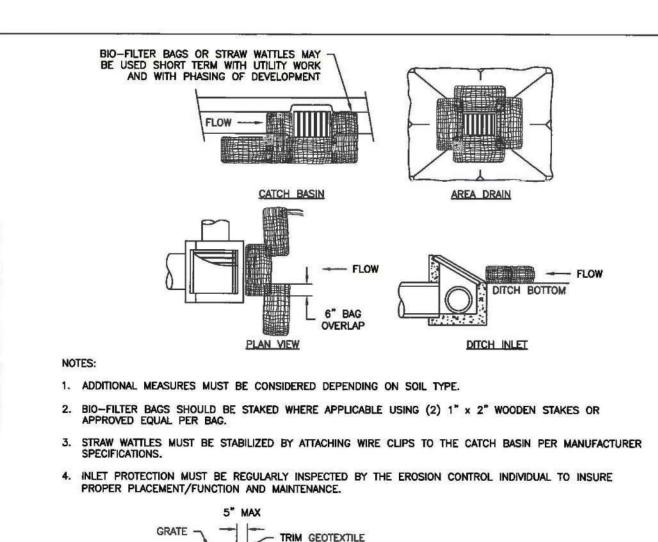
- 2 3" TRASH PUMP WITH FLOATS ON THE SUCTION HOSE.
- 3 MIDPOINT SPRAY NOZZLES, IF NEEDED.
- ♠ 6" SEWER PIPE WITH BUTTERFLY VALVES, BOTTOM ONE IS A DRAIN. LOCATE TOP PIPE'S INVERT 1' ABOVE BOTTOM OF WHEEL WASH.
- (5) 8' X 8' SUMP WITH 5' OF CATCH, BUILD SO CAN BE CLEANED WITH TRACKHOE.
- 6 6" ASPHALT CURB ON THE LOW ROAD SIDE TO DIRECT WATER BACK TO POND.
- Ø 6" SLEEVE UNDER ROAD.
- BALL VALVES.

2% SLOPE

5:1 SLOPE

(9) 15' ATB APRON TO PROTECT GROUND FROM SPLASHING WATER.

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WASHINGTON	Bart Steps	11011			(A-2000)		
PUBLIC WORKS	PUBLIC WORKS DIRECTOR	DATE					



UNDISTURBED SOIL

TYPICAL RUNOFF

TYPICAL HOUSE

* * * *

PARKING, STAGING, AND ENTRANCE

COMPLETED ROADWAY

NOTES:

AND DETAILS.

APPROVED

Bart Stepp 1/6/14

TYPICAL

DRIVEWAY

1. DEPENDING UPON CONTRACTORS' PRACTICES, THESE MEASURES MAY BE VARIED WITH APPROVAL FROM THE CITY OF WOODLAND.

2. CONTRACTOR SHALL BE REQUIRED TO CONFORM TO ALL GENERAL EROSION CONTROL NOTES

3. DOWNSPOUTS SHALL NOT DRAIN TO THE ROADWAY RIGHT-OF-WAY OR INTO ANY DRAINAGE STRUCTURES IN THE RIGHT-OF-WAY, EXCEPT WHERE APPROVED BY CITY OF WOODLAND.

SITE EROSION CONTROL

REVISIONS DATE

TYPICAL EDGE OF DISTURBED SOIL ZONE RELATED TO HOUSE

CONSTRUCTION

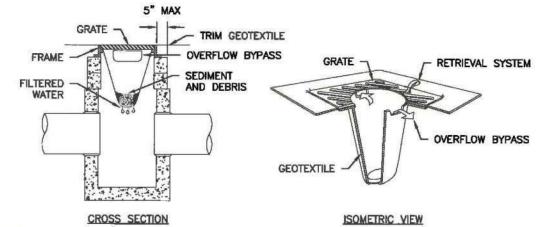
TYPICAL EROSION CONTROL FILTER FABRIC FENCE

PLACE CONTINUOUS LINE OF STRAW
BALES OR WATTLES ACROSS ENTRANCE

DURING TIMES OF PRECIPITATION AND AT END OF EACH WORKING DAY

DRAWN

E - 02

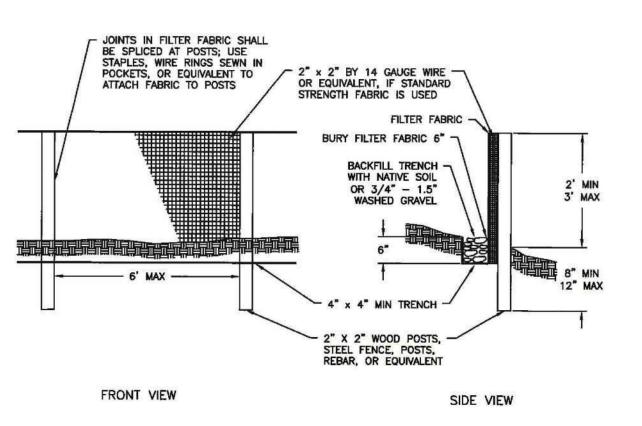


- 1. SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
- 2. THE REMOVAL SYSTEM MUST ALLOW REMOVAL OF THE BGID WITHOUT SPILLING THE COLLECTED MATERIAL. 3. THE BGID SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).

NOTES:

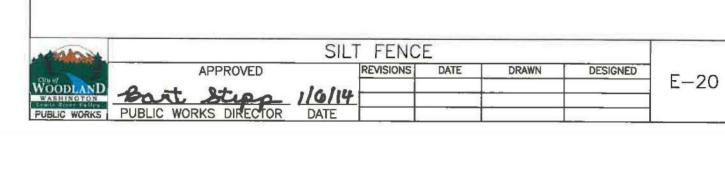
- 4. THE CONTRACTOR SHALL INSPECT THE BAG AFTER EACH STORM EVENT AND AT REGULAR INTERVALS. 5. THE FILTER BAG SHALL BE CLEANED OR REPLACED WHEN THE BAG BECOMES HALF FULL.

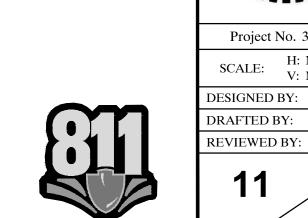
MORONA	INLET F	PROTEC	CTION	(1 OF	2)		
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1. FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE. 2. POST SPACING MAY BE INCREASED TO 8' IF WIRE BACKING IS USED.

- MAINTENANCE STANDARDS: 1. SILT FENCES AND FILTER BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.
- 2. IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND
- CONVEYED TO A SEDIMENT POND. 3. IT IS IMPORTANT TO CHECK THE UPHILL SIDE OF THE FENCE FOR SIGNS OF THE FENCE CLOGGING AND ACTING AS A BARRIER TO FLOW AND THEN CAUSING CHANNELIZATION OF FLOWS PARALLEL TO THE FENCE. IF THIS OCCURS, REPLACE THE FENCE OR REMOVE THE TRAPPED SEDIMENT.
- 4. SEDIMENT DEPOSITS SHALL EITHER BE REMOVED WHEN THE DEPOSIT REACHES APPROXIMATELY ONE—THIRD THE HEIGHT OF THE SILT FENCE, OR A SECOND SILT FENCE SHALL BE INSTALLED.
- 5. IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE

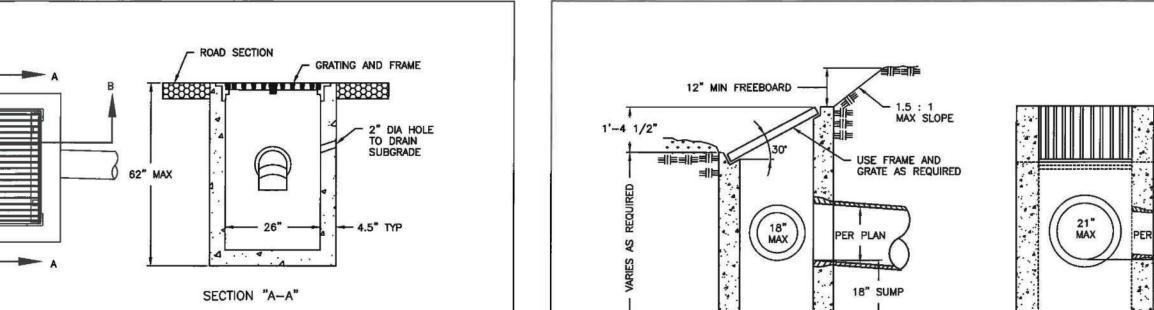


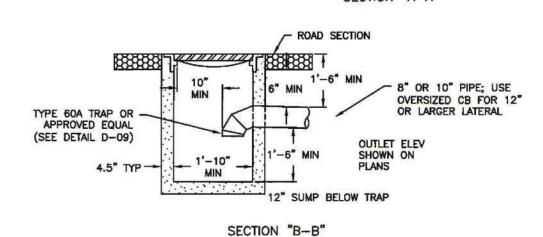


Know what's **below. Call** before you dig

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NOTES:

LATERALS WILL BE CONSTRUCTED TO ENTER THE BASIN PERPENDICULAR TO THE BASIN WALL.

THE LATERAL WILL ENTER ONLY AT THE FRONT OR SIDE OF THE BASIN WITH NO LATERALS

ALLOWED TO ENTER THE CATCH BASIN AT THE CORNERS. IF NEEDED, A BEND MAY BE USED AS THE FIRST SECTION OF PIPE OUTSIDE THE BASIN WALL. THE MAXIMUM BEND ALLOWED IS 45

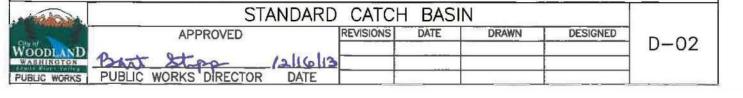
2. ALL REINFORCED STEEL SHALL HAVE A 1-1/2" CLEAR COVER UNLESS OTHERWISE NOTED, AND SHALL BE GRADE 40 OR GRADE 60 (ASTM A-615).

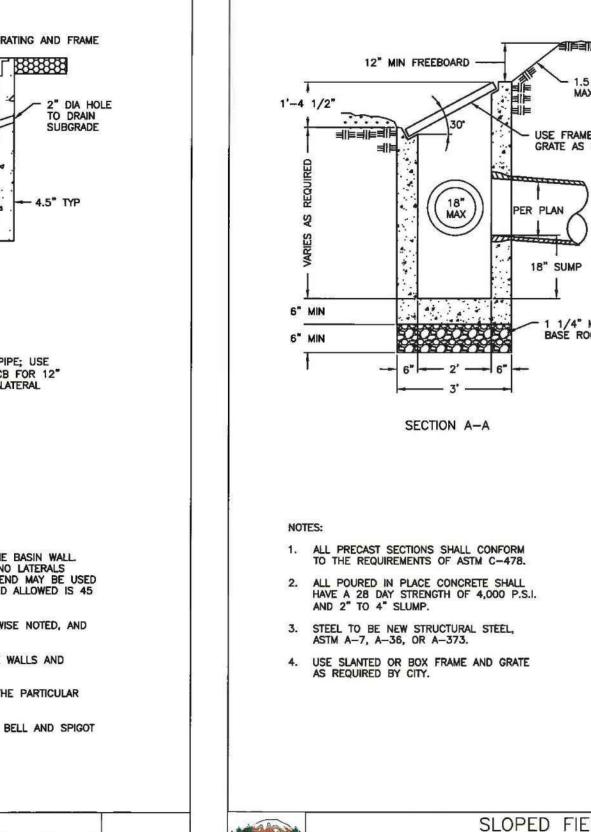
3. ANY PROTRUDING ENDS OF PIPES SHALL BE TRIMMED FLUSH WITH THE INSIDE WALLS AND

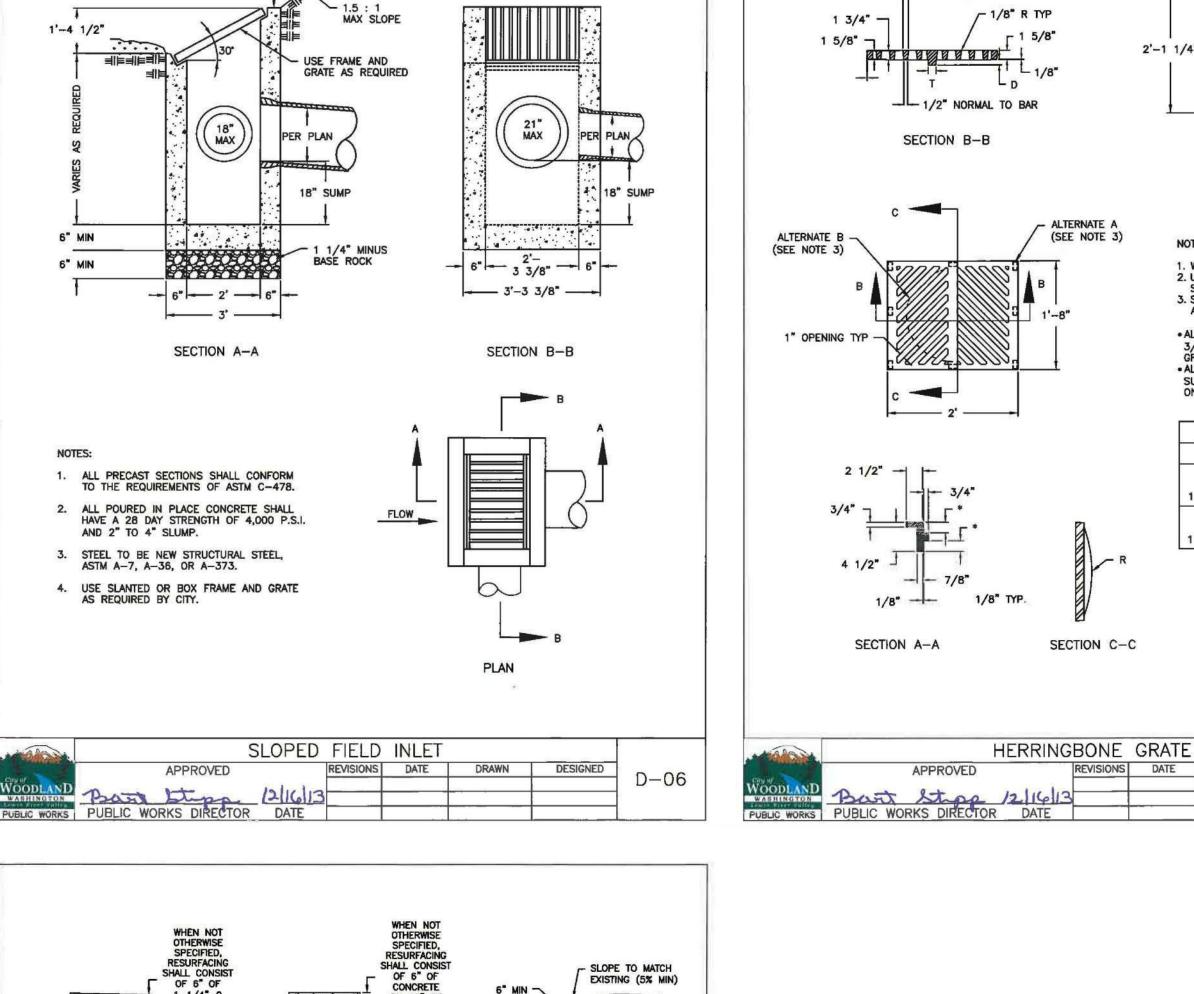
4. THE METAL FRAME AND GRATE SHALL BE SET TO A SLOPE TO CONFORM TO THE PARTICULAR

5. ELBOW SECTION SHALL BE REMOVABLE FOR MAINTENANCE PURPOSES USING A BELL AND SPIGOT

ALL PRECAST OR CAST-IN-PLACE CONCRETE SHALL BE CLASS 4000.







- | - 3/4" NORMAL TO BAR

2'-1 1/4

NOTES:

1" MIN

1 3/4" MAX

1" MIN

1 3/4" MAX

. WELDING NOT PERMITTED.

ALTERNATE A

(SEE NOTE 3)

SECTION C-C

1'-10 1/2" --

2'-1/4" ---2'-2"

2. USE VANED GRATE WHERE LONGITUDINAL SLOPE EXCEEDS 4%.
3. SEATING OF GRATE SHALL BE ACCOMPLISHED BY ONE OF THE FOLLOWING:

•ALTERNATE A SHALL BE 8 PADS 1-1/2" x

SURFACE OUTSIDE A 17" CIRCLE, BOTTOM

DIMENSIONS W1 & W2 T R D

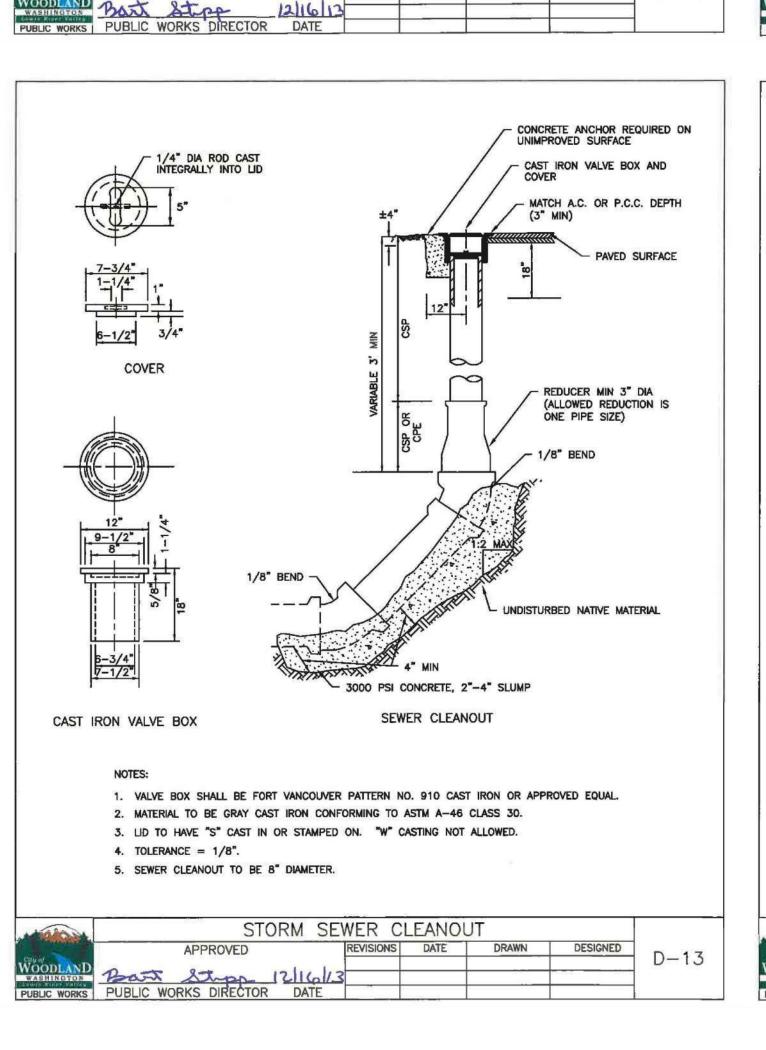
1/2"

* 1 5/8" (+0", -1/16")

21" 2 3/4"

D - 08

3/4" x 1/8" INTEGRALLY CAST WITH THE



GENERAL NOTES FOR STORM SEWERS

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.

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

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

4. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER AND/OR CONTRACTOR TO PROCURE AND

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

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.

NATER 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.

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

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

WITH SECTIONS 1-05.11, 1-05.12, AND 7-04.3 OF THE STANDARD SPECIFICATIONS.

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

GENERAL NOTES FOR STORM SEWERS

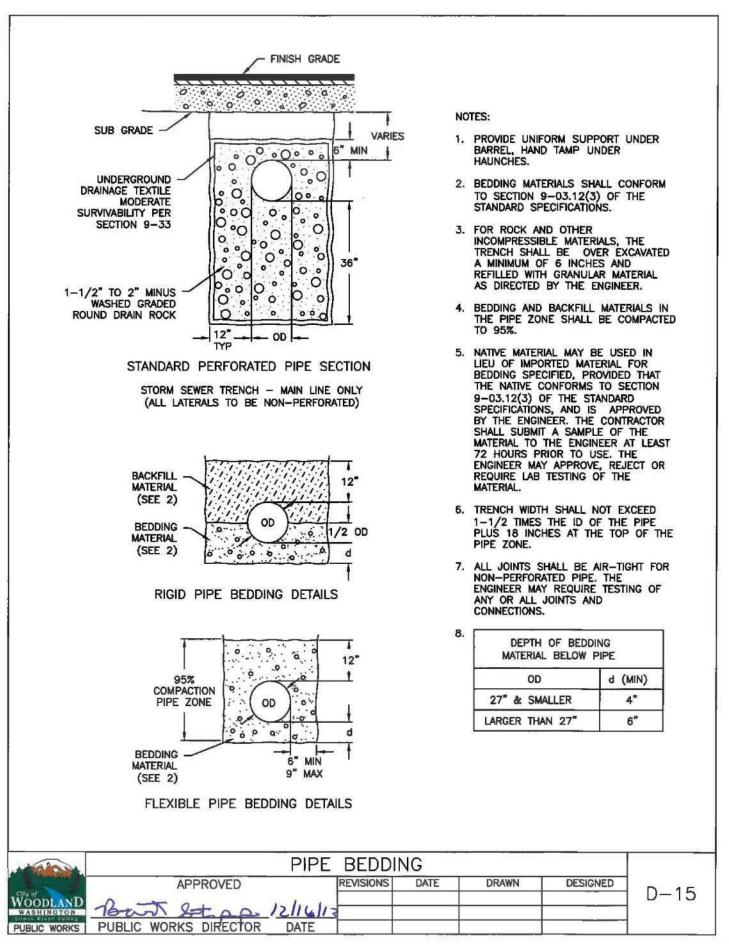
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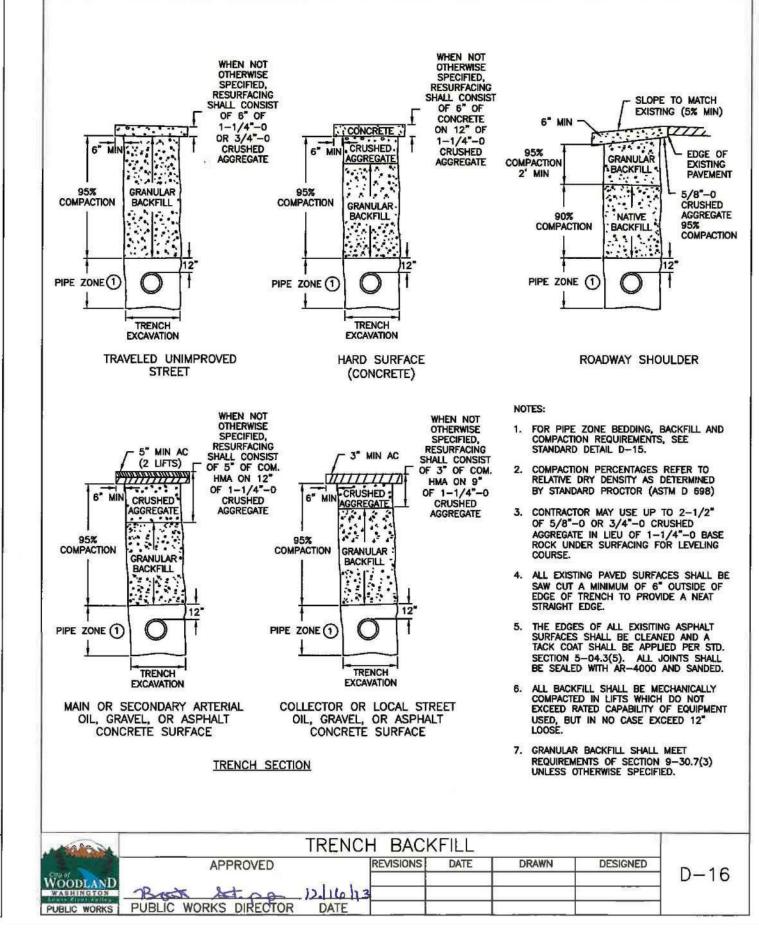
1-800-424-5555 IN LIEU OF CONTACTING INDIVIDUAL UTILITIES.

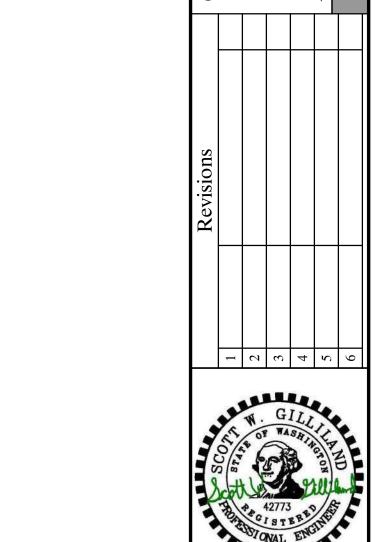
ANY CONSTRUCTION OR LAND DISTURBING ACTIVITY.

-CENTERLINE AND TOP OF CURB ELEVATIONS

1. ALL MATERIALS AND INSTALLATION OF STORM SEWERS AND DRAINAGE SYSTEMS SHALL BE IN

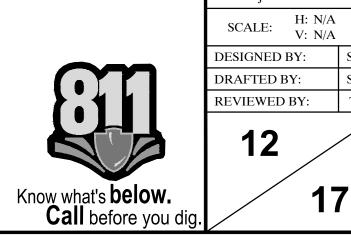






Project No. 3264

DESIGNED BY: DRAFTED BY: REVIEWED BY:



CONSTRUCTION SPECIFICATIONS 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

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 APWA 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 OF THE CITY.

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:

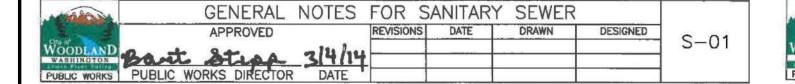
A. PIPE SHALL BE INSTALLED IN CONFORMANCE WITH PIPE DETAIL S-02 AND TRENCHING DETAIL S-03.

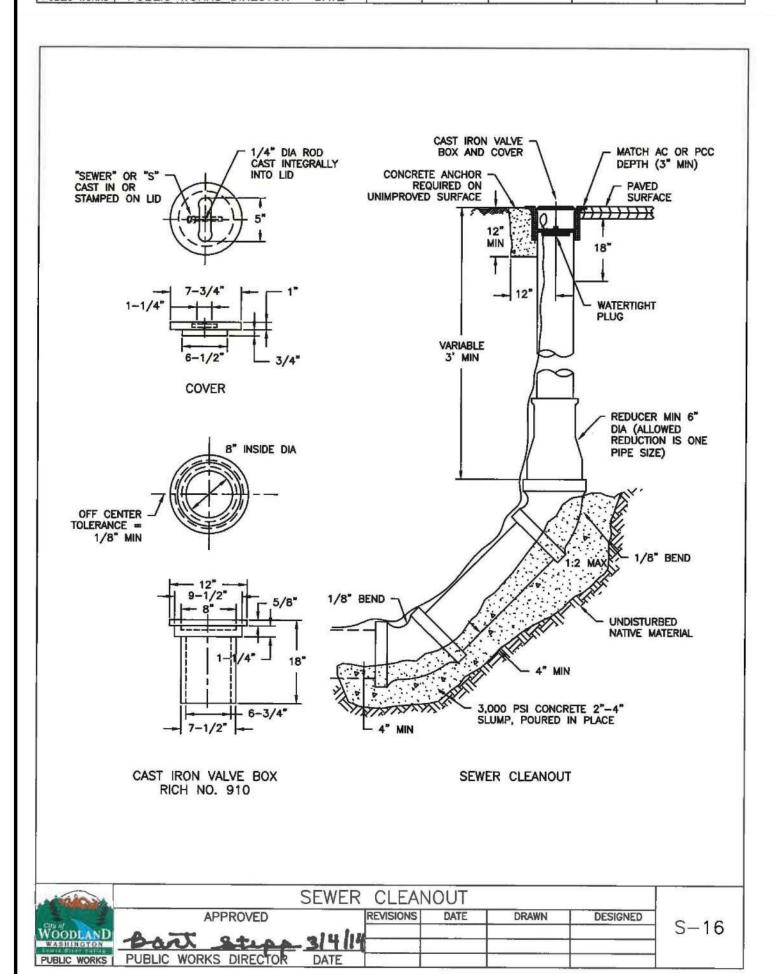
B. MANHOLES SHALL CONFORM WITH STANDARD DETAILS S-07 THROUGH S-14.

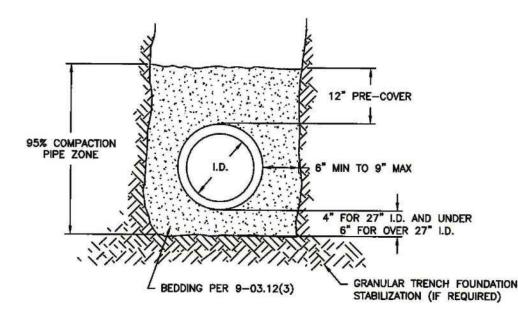
MANHOLES, CLEANOUTS, SERVICE LATERAL CONNECTIONS, TRENCH EXCAVATION, PIPE BEDDING AND STREET RESTORATION, AND APPURTENANCES SHALL CONFORM TO THE DETAILS SHOWN ON THE STANDARD PLANS. ALL OTHER CONSTRUCTION SHALL CONFORM TO THE STANDARD DETAILS CONTAINED IN THE STANDARD

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.



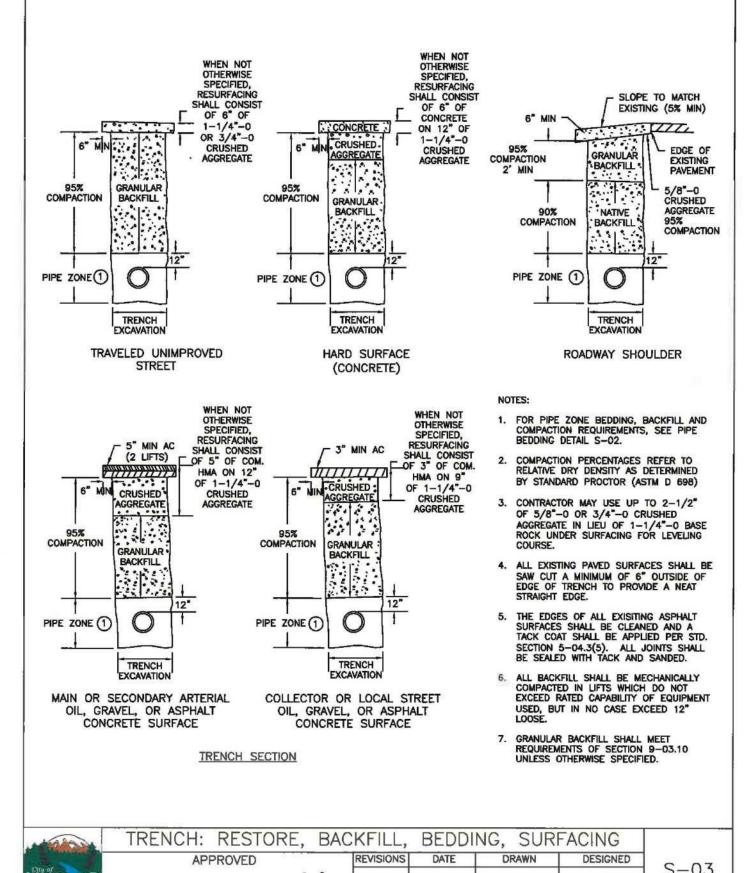


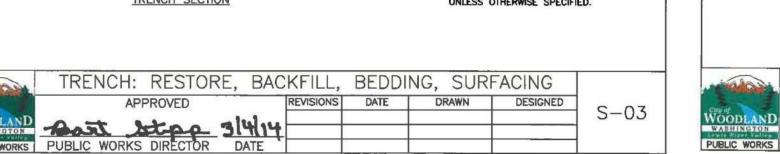


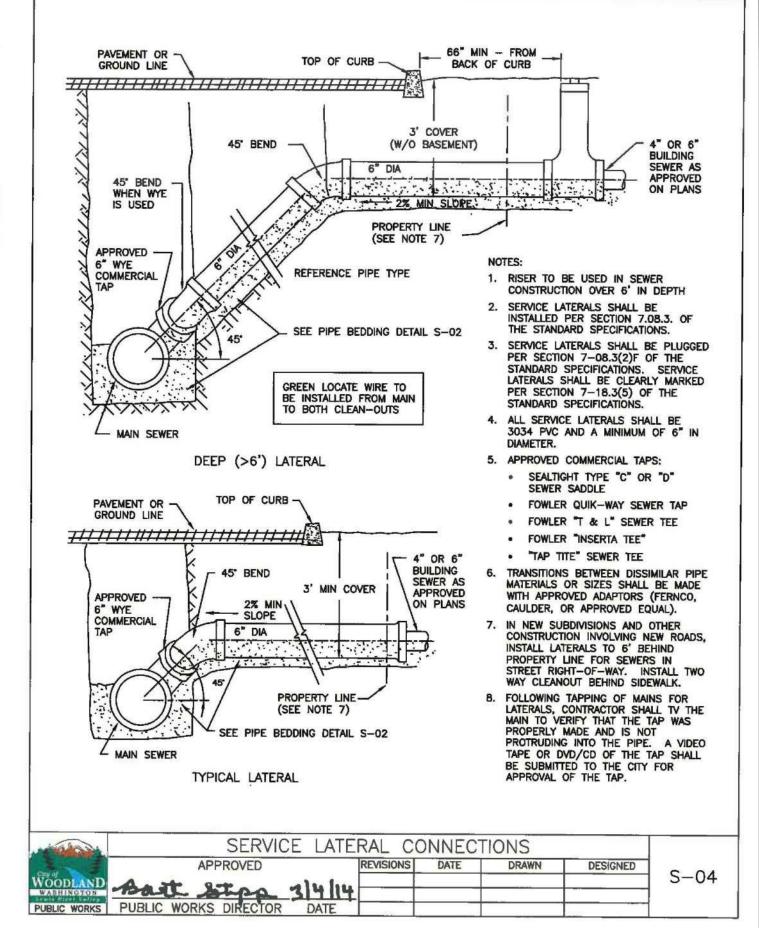
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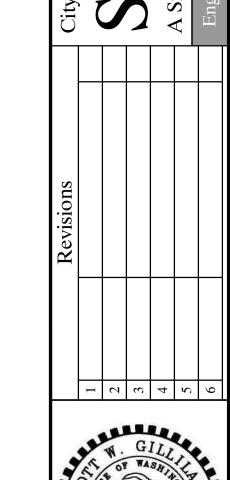
- 1. WHERE DIRECTED BY THE ENGINEER GRANULAR TRENCH FOUNDATION STABILIZATION SHALL BE PLACED PRIOR TO PLACEMENT OF THE BEDDING. SIZE AND DEPTH ARE DEPENDENT ON SOIL
- 2. BEDDING AND BACKFILL MATERIALS IN THE PIPE ZONE SHALL BE COMPACTED AS SPECIFIED PRIOR TO BACKFILLING THE REMAINDER OF THE TRENCH.
- 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(2)G 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.

1	PIP	E BEDDII	NG			
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Project No. 3264

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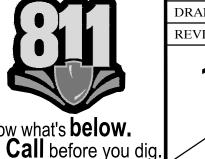
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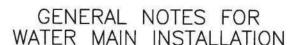
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- 1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE WSDOT/APWA STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION HEREIN IDENTIFIED AS THE "STANDARD SPECIFICATIONS", AND AWWA SPECIFICATIONS, EXCEPT AS MODIFIED BELOW OR 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 EXCAVATIONS.
- 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, PRESSURE CLASS AS SPECIFIED ON DRAWINGS OR DUCTILE IRON PRESSURE CLASS 50 OR AS NOTED ON
- 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.

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ROLLED CURB AND GUTTER

USE OF ROLLED CURB AND GUTTER PERMITTED ONLY WHEN APPROVED BY PUBLIC WORKS

DETAIL TO2-15

RAMP LIP DETAIL TO2-15

COMMERCIAL

(8" DEPTH)-

CURBS ADJACENT TO PAVEMENT OR SIDEWALK SHALL HAVE CONSTRUCTION JOINTS TO MATCH EXISTING PATTERNS. 3/8"
EXPANSION JOINTS SHALL BE PLACED ON BOTH SIDES OF CATCH BASINS, AT TOPS OF DRIVEWAYS, ALL CHANGES IN
DIRECTION, AND AS DIRECTED BY THE INSPECTOR. CONTRACTION JOINTS TO BE PLACED AT 15' MAXIMUM SPACING.

8. WHEN ATTACHED SIDEWALKS ARE USED WITH ROLLED CURB AND GUTTER, THICKENED SIDEWALKS (6" MIN.) SHALL BE CONSTRUCTED UNDER THE SAME CONSTRUCTION CONTRACT.

CONCRETE CURBS

-3" MIN. DEPTH 5/8" CRUSHED

(TYP.) AT OPENINGS OF

AGGREGATE (TYP.)

1. CONCRETE SHALL BE 3000 PSI MIN. (CL 3000), 3-1/2" SLUMP (MAX.).

4. COMPACT SUBGRADE AND AGGREGATE TO 95% MAXIMUM DRY DENSITY (3" MIN. DEPTH).

3. FOR CURB DROPS AT ADA RAMPS, SEE RAMP LIP DETAIL T-21.

5. SEE PAVEMENT RESTORATION/WIDENING AT CURBS DETAIL T-30.

PUBLIC WORKS DIRECTOR DATE

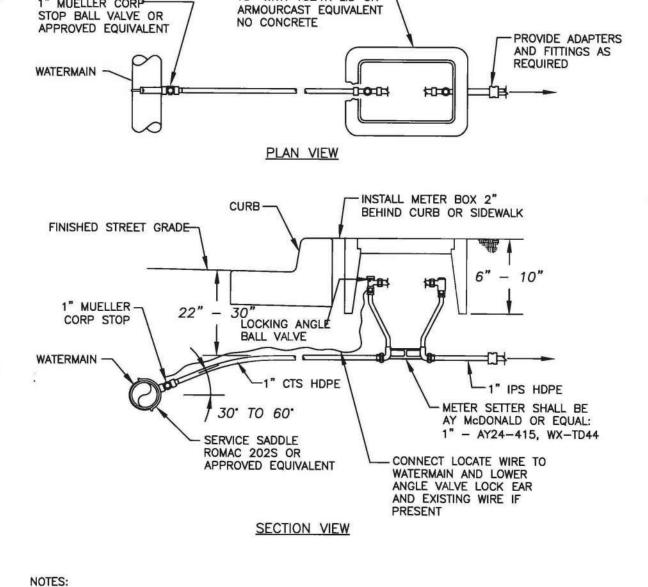
6. CURB TO BE MEDIUM BROOM FINISHED, PARALLEL TO GUTTER LINE.

7. WHERE MATCHING EXISTING CURBS, ALL EXISTING EDGES SHALL BE SAWCUT.

7-3/4"

TYPE E-1 CURB

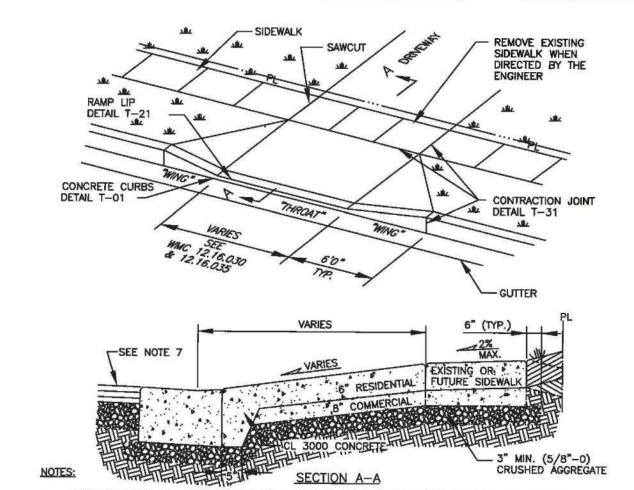
TYPE A-1 CURB AND GUTTER



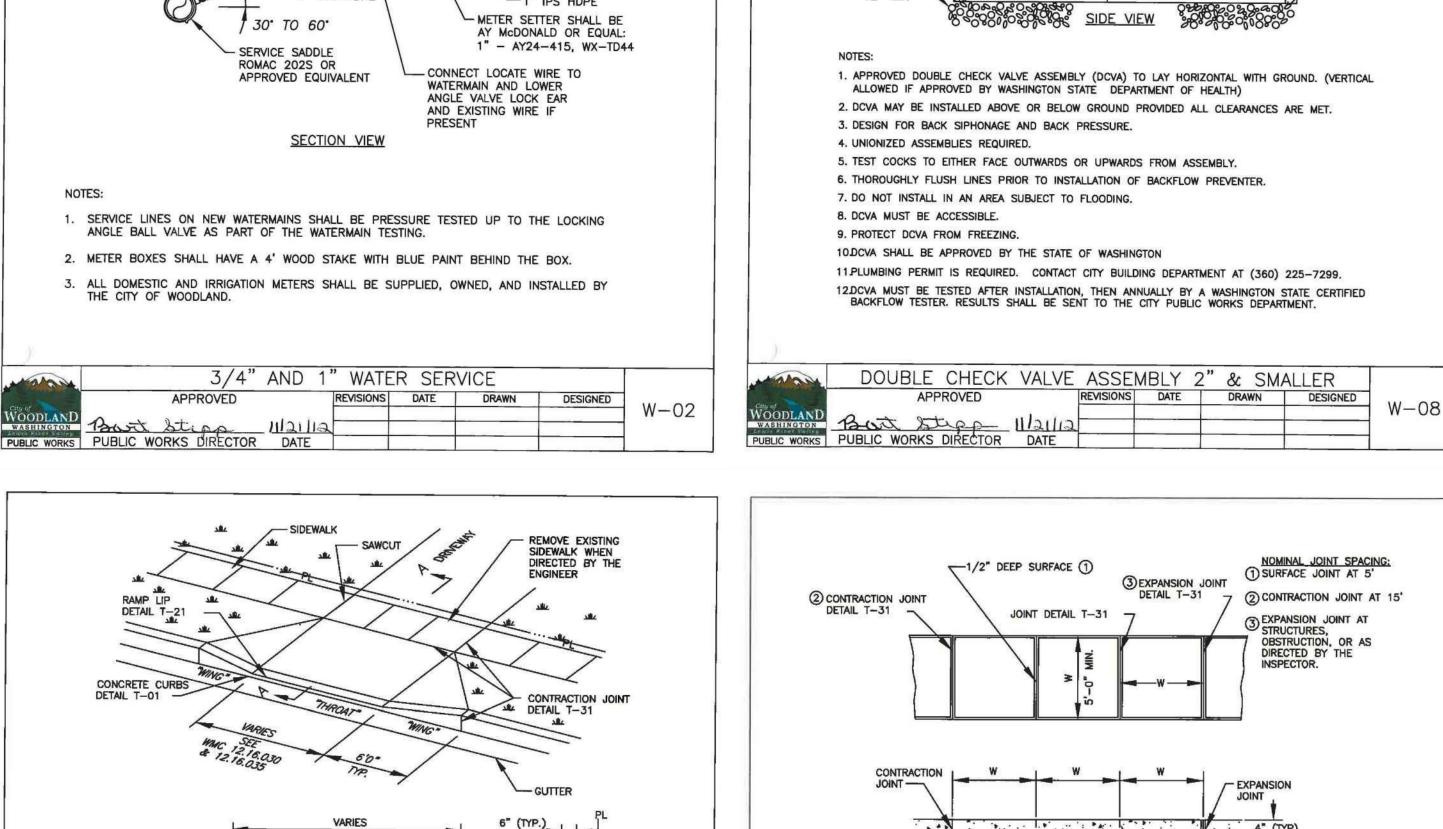
METER BOX RAVEN 1324-18" WITH 1324R LID OR

1" MUELLER CORP

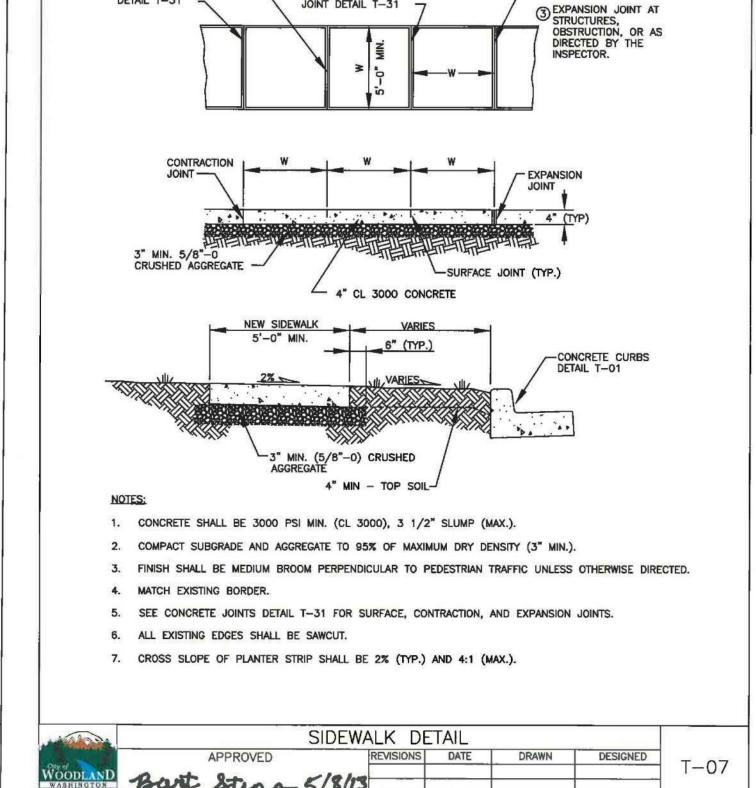
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Malan	3/4"	AND 1	" WATE	R SER	VICE		
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- CONCRETE SHALL BE 3000 PSI MIN. (CL 3000), 3-1/2" SLUMP (MAX.), MEDIUM BROOM FINISH PARALLEL TO DRIVEWAY CENTERLINE
- 2. TO BE USED WHERE CURB AND SIDEWALK ARE SEPARATED BY A PLANTER STRIP.
- 3. COMMERCIAL DRIVEWAYS REQUIRE 8" CONCRETE WITH REINFORCING STEEL (6x6 W2.9xW2.9 WWF. MIN.), 11/2" COVER FROM BOTTOM OF SLAB. RESIDENTIAL DRIVEWAYS REQUIRE 6" CONCRETE.
- 4. COMPACT SUBGRADE AND AGGREGATE TO 95% OF MAXIMUM DRY DENSITY (3" MIN. DEPTH).
- 5. DRIVEWAYS EXCEEDING 15' IN TOTAL WIDTH SHALL HAVE ADDITIONAL LONGITUDINAL JOINTS AS DIRECTED. JOINT SPACING SHALL NOT EXCEED 15'. SEE CONCRETE JOINTS DETAIL T-31.
- EXISTING CURB SHALL BE REMOVED TO EXISTING JOINT OR SAWCUT SUCH THAT 3' MIN. OF NEW CURB IS CONSTRUCTED ADJACENT TO NEW DRIVEWAY. HORIZONTAL CUTTING OF EXISTING CONCRETE ALLOWED SUBJECT TO PUBLIC WORKS DIRECTOR APPROVAL.
- 7. SEE PAVEMENT RESTORATION/WIDENING AT CURB DETAIL T-30 WHEN CUTTING EXISTING CURB.
- ALL EXISTING EDGES SHALL BE SAWCUT.
- 9. STRUCTURAL SECTION OF DRIVEWAY TO BE EXTENDED THROUGH SIDEWALK AREA.
- 10. 3' WING MIN. FOR RESIDENTIAL STREET.
- 11. 45' ANGLE FOR WINGS ON ARTERIAL STREETS. 12. NO WATER METERS IN DRIVEWAY APPROACH OR WING.
- DRIVEWAY WITH DETACHED SIDEWALK DESIGNED -03Bart Steps 5/8/13



GRADE



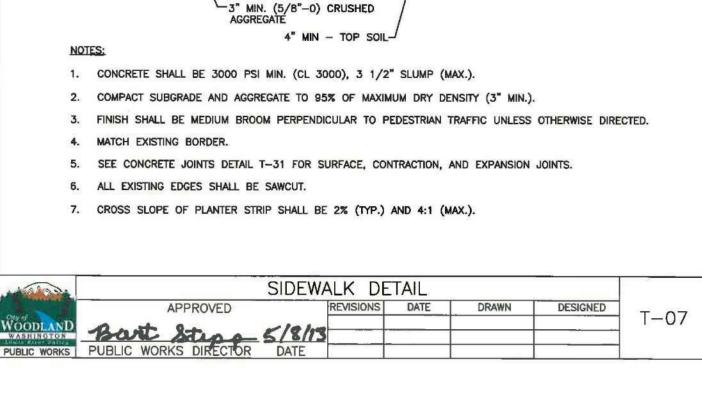
RESILIENT SEATED SHUTOFF VALVES (2 REQ'D.) 3"

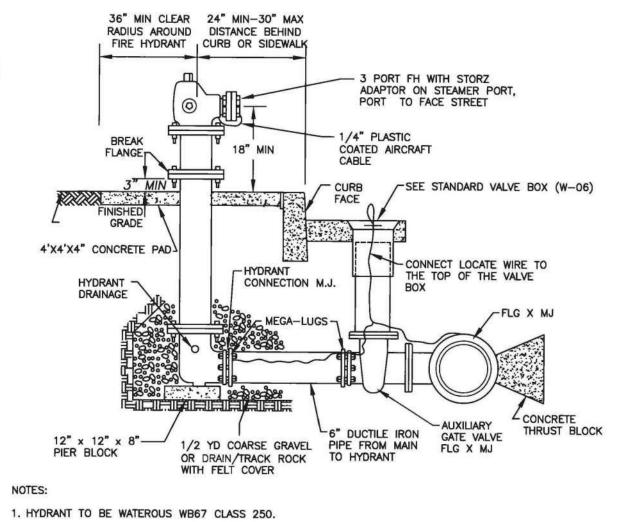
PLASTIC OR CEMENT

METER BOX

TOP VIEW

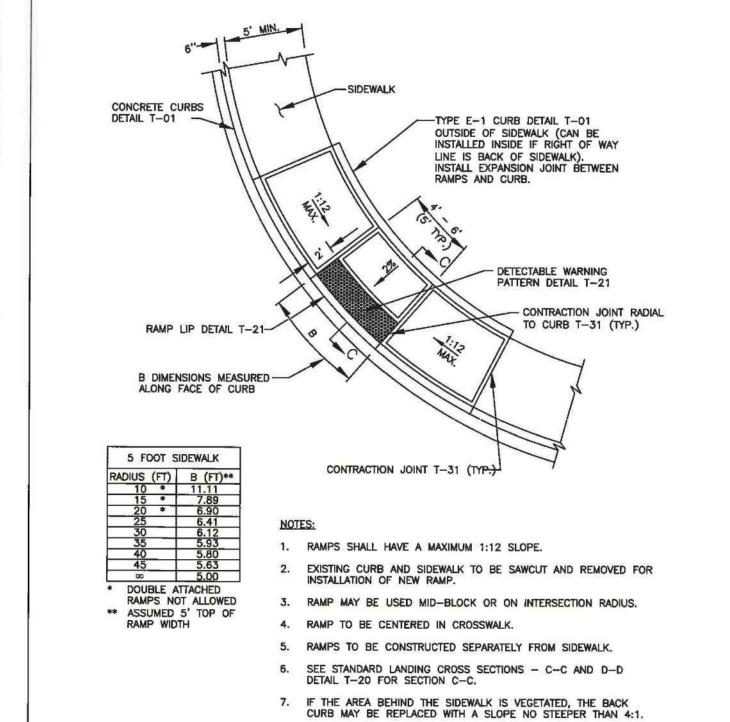
TEST COCKS (4 REQ'D)-





- 2. 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.
- 3. STORZ ADAPTORS ARE REQUIRED.
- 4. FOUR (4) GUARD POSTS TO BE INSTALLED IN UNPROTECTED AREAS (4' RADIUS).
- 5. FIRE HYDRANT INSTALLATION SHALL BE APPPROVED BY THE CITY OF WOODLAND PUBLIC WORKS DEPARTMENT PRIOR TO BACKFILLING
- 6. HYDRANTS SHALL NOT BE SET UNTIL LOCATION AND DEPTH ARE APPROVED BY THE CITY OF WOODLAND.
- 7. FIRE HYDRANTS SHALL BE SHOP PAINTED PRIOR TO INSTALLATION W/ SAFETY YELLOW (RODDA NO. QD81) HIGH GLOSS EQUIPMENT ENAMEL.
- 8. HYDRANT STANDARD BURY IS 4' UNLESS OTHERWISE NOTED ON THE PLANS, OR WHEN BREAKAWAY JOINT IS STALLED 7" ABOVE FINISHED GRADE.
- 9. HYDRANT LOCATIONS SHALL BE AS SHOWN ON THE PLANS.
- 10 JOINT RESTRAINT SYSTEM MAY BE USED FOR INSTALLATIONS OF NOT MORE THAN 18' (ONE PIPE LENGTH). 11 JNSTALL LOCATING WIRE AND CONNECT TO EXISTING WIRE IF PRESENT.

FIRE HYDRANT APPROVED DESIGNED PUBLIC WORKS DIRECTOR DATE



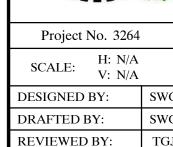
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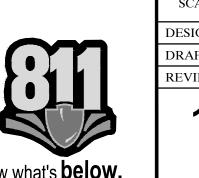
8. IF THE MAXIMUM SLOPE OF 1:12 CANNOT BE ACHIEVED DUE TO THE SLOPE OF THE EXISTING SIDEWALK, THE LENGTH OF THE CURB RAMP SHALL NOT BE REQUIRED TO BE LONGER THAN

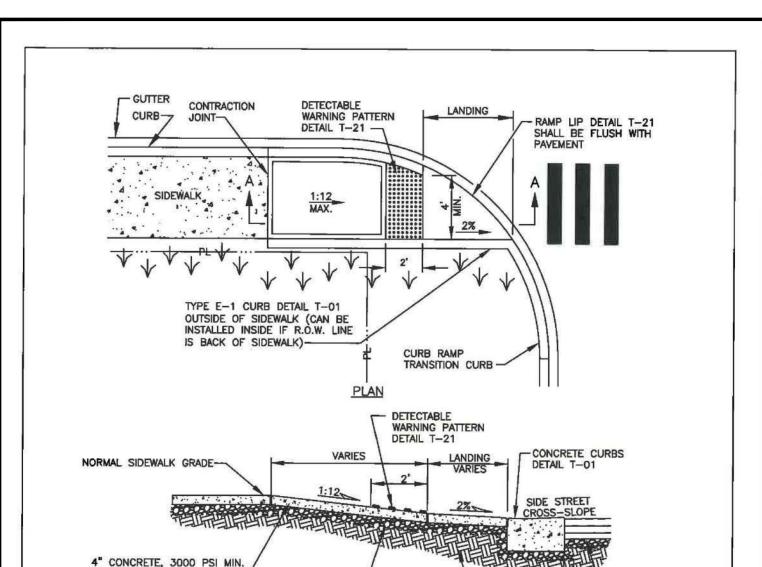
15 FEET REGARDLESS OF THE RESULTING RAMP SLOPE.



1' CLEAR --







(CL 3000) 31/2" SLUMP MAX.-

THIS DETAIL IS TO BE USED ONLY FOR RETROFIT PROJECTS WHEN RIGHT-OF-WAY IS LIMITED TO BACK OF SIDEWALK. SPECIFIC PUBLIC WORKS DIRECTOR APPROVAL IS REQUIRED FOR THE USE OF THIS DETAIL.

COMPACT SUBGRADE AND AGGREGATE TO -

SECTION A-A

95% OF MAXIMUM DRY DENSITY (3" MIN.)

- 2. RAMP TO BE CENTERED IN CROSSWALK.
- 3. AN UNOBSTRUCTED PATH OF TRAVEL WITH A MINIMUM WIDTH OF 4' SHALL BE MAINTAINED.

AGGREGATE (5/8"-0)-

- 4. IF THE MAXIMUM SLOPE OF 1:12 CANNOT BE ACHIEVED DUE TO THE SLOPE OF THE EXISTING SIDEWALK, THE LENGTH OF THE CURB RAMP SHALL NOT BE REQUIRED TO BE LONGER THAN 15 FEET REGARDLESS OF THE RESULTING RAMP SLOPE.
- 5. SEE PAVEMENT RESTORATION/WIDENING AT CURB DETAIL T-30 WHEN CUTTING EXISTING CURB.

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GENERAL NOTES:

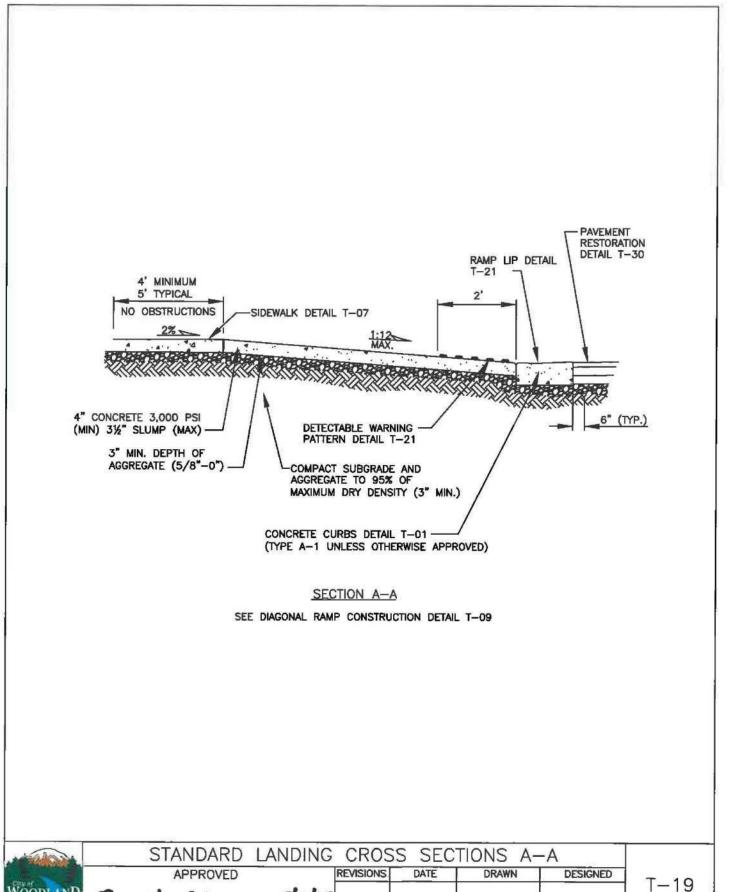
- ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS, EXCEPT WHERE OTHERWISE NOTED IN THESE STANDARDS. MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION PREPARED BY THE WASHINGTON STATE CHAPTER OF THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND THE WASHINGTON STATE DEPARTMENT OR TRANSPORTATION (WSDOT) AND SHALL COMPLY WITH THE CURRENT EDITION.
- TRENCH BACKFILL AND RESURFACING SHALL BE AS SHOWN IN THE STANDARD DETAILS, UNLESS MODIFIED BY THE RIGHT OF WAY USE PERMIT. SURFACING DEPTHS AND PAVING LIMITS SHOWN IN THE STANDARD DETAILS ARE MINIMUMS AND MAY BE INCREASED BY THE DIRECTOR TO MEET TRAFFIC LOADINGS OR SITE CONDITIONS.
- THE DIRECTOR MAY REQUIRE MATERIALS COMPACTION AND MOISTURE TESTING. TESTING SHALL BE PERFORMED BY A LAB PRE APPROVED BY THE CITY WITH THE RESULTS BEING SUPPLIED TO THE DIRECTOR. THE TESTING IS NOT INTENDED TO RELIEVE THE CONTRACTOR FROM ANY LIABILITY FOR THE TRENCH RESTORATION. IT IS INTENDED TO SHOW THE INSPECTOR AND THE CITY THAT THE RESTORATION MEETS THIS SPECIFICATION.
- 4. THE FINAL PAVEMENT PATCH SHALL BE COMPLETED AS SOON AS POSSIBLE AND SHALL BE COMPLETED WITHIN THIRTY (30) DAYS AFTER FIRST OPENING THE TRENCH. THIS TIME FRAME MAY BE ADJUSTED IF DELAYS ARE DUE TO INCLEMENT WEATHER, OR OTHER ADVERSE CONDITIONS. HOWEVER, DELAYING OF FINAL PATCH OR OVERLAY WORK IS ALLOWABLE ONLY SUBJECT TO THE DIRECTOR'S APPROVAL. THE DIRECTOR MAY DEEM IT NECESSARY TO COMPLETE THE WORK WITHIN THIRTY (30) DAYS TIME FRAME AND NOT ALLOW ANY TIME EXTENSION. IF THIS OCCURS, THE CONTRACTOR SHALL PERFORM THE NECESSARY WORK AS DIRECTED. PATCHES, REPAIRS, OR OVERLAYS SHALL ONLY BE INSTALLED NEXT TO A CLEAN, NEAT SAWCUT LINE.
- WHEN TRENCHING WITHIN THE ROADWAY SHOULDERS, THE SHOULDER SHALL BE RESTORED TO ITS ORIGINAL OR BETTER CONDITION. LONGITUDINAL TRENCH RESTORATION REQUIRING A HALF LANE WIDTH OR MORE SHALL BE REQIRED TO RESTORE THE ENTIRE LANE TO CENTERLINE. UNDERMINED PAVEMENT SHALL BE CUT BACK, REMOVED, AND RESTORED TO LIMITS AS REQUIRED BY THE DIRECTOR TO ALLOW COMPACTION AND BACKFILL OF DISTURBED AREAS. LIMITS OF TRENCH RESTORATION SHALL BE IDENTIFIED PRIOR TO TRENCH BACKFILL.
- 6. ANY PATCH OR OVERLAY ON ARTERIAL STREETS OR AREAS ZONED COMMERCIAL SHALL BE PERMANENT AND COMPLETED AS SOON AS POSSIBLE.
- 7. IF A PAVEMENT CUT IS PROPOSED IN A STREET THAT WAS CONSTRUCTED OR RE-PAVED WITHIN THE PAST FIVE YEARS, A DISRUPTION FEE WILL BE CHARGED IN ACCORDANCE WITH WMC 12.04.060. TRENCHLESS CONSTRUCTION METHODS MUST BE EXPLORED ON ALL PAVED ROAD CROSSINGS REGARDLESS OF THE PAVEMENT CONDITION.
- 8. CONTROL DENSITY FILL IS REQUIRED WHEN TRENCHING IN ARTERIAL STREETS, AND STREETS LOCATED IN THE CENTRAL BUSINESS DISTRICT. FOR LONGITUDINAL TRENCHES ALTERNATIVE METHODS OF RESTORATION MAY BE CONSIDERED.
- 9. THE OWNER SHALL WARRANTY THE RESTORATION WORK FOR A PERIOD OF 2 YEARS ON RESIDENTIAL, LOCAL, AND UNCLASSIFIED STREETS AND 5 YEARS ON COLLECTOR AND ARTERIAL STREETS. FRANCHISE UTILITIES SHALL WARRANTY THEIR WORK FOR THE LIFE OF THE RESTORATION. THE OWNER SHALL REPAIR ANY OF THE FOLLOWING DEFICIENCIES WHICH OCCUR DURING THIS TIME PERIOD.

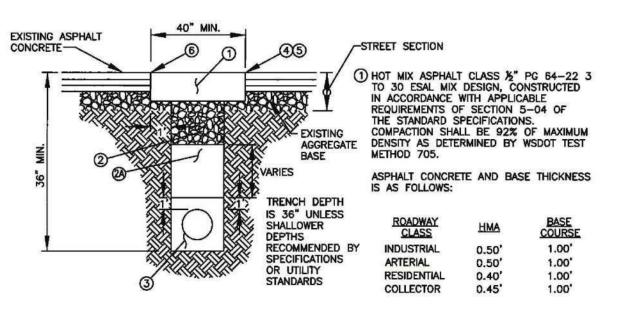
SETTLEMENT OR BUMP: ANY SETTLEMENT OR BUMP MORE THAN 1/4 INCH LOWER OR HIGHER THAN THE ORIGINAL PAVEMENT SHALL BE REPAIRED. REPAIR MAY INCLUDE REMOVAL AND REPLACEMENT OR SKIN PATCHING AND WILL BE DETERMINED BY THE DIRECTOR. EDGE SEPARATION: ANY SEPARATION OF THE TRENCH FROM SURROUNDING ROADWAY GREATER THAN 1/4 INCH SHALL BE CRACK SEALED PER WSDOT STANDARD SPECIFICATIONS SECTION 5-04.

ALLIGATOR CRACKING: ANY TRENCH PAVEMENT WHICH EXHIBITS ALLIGATOR CRACKING SHALL BE REPLACED. THE REPLACEMENT SHALL BE IN CONFORMANCE WITH THE PAVEMENT REPAIR SECTION OF THE STANDARD RAVELING: RAVELING IS DEFINED AS SURFACE DETERIORATION THAT OCCURS WHEN AGGREGATE PARTICLES ARE DISLODGED OR OXIDATION CAUSES LOSS OF ASPHALT BINDER. THE ASPHALT CONCRETE PAVEMENT LOSES ITS SMOOTH SURFACE AND BEGINS TO APPEAR VERY OPEN AND ROUGH. MEDIUM SEVERITY RAVELING AS DEFINED BY THE "PAVEMENT SURFACE CONDITION FIELD RATING MANUAL FOR ASPHALT PAVEMENT" DEVELOPED BY THE NORTHWEST PAVEMENT MANAGEMENT ASSOCIATION SHALL BE PLANED

- 10. PAVEMENT REMOVAL SHALL ONLY BE ACCOMPLISHED BY USE OF SAWCUTTING, PLANING, OR GRINDING EQUIPMENT SPECIFICALLY DESIGNED FOR THIS PURPOSE. TO ACCOMPLISH A NEAT STRAIGHT CUT LINE. USE OF PAVEMENT
- 11. ALL PAVEMENT, CURB, GUTTER, OR SIDEWALK DAMAGED AS A RESULT OF CONTRACTOR ACTIVITY SHALL BE RESTORED TO ORIGINAL CONDITION. PAVEMENT SHALL BE RESTORED TO NOT LESS THAN THE ORIGINAL CROSS SECTION AND STRENGTH. WHERE PAVEMENT, CURB, GUTTER, OR SIDEWALK HAVE BEEN UNDERMINED BY TRENCHING, IT SHALL BE REMOVED. THE SUBGRADE RESTORED AND SURFACES REPLACED TO LIMITS AS APPROVED BY THE CITY.

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OR 1" GREATER THAN EXISTING ASPHALT & BASE COURSE THICKNESS, MINIMUM LIFT THICKNESS IS 0.15' - MAXIMUM LIFT THICKNESS IS 0.35' FOR BASE COURSE, 0.25' FOR TOP COURSE.

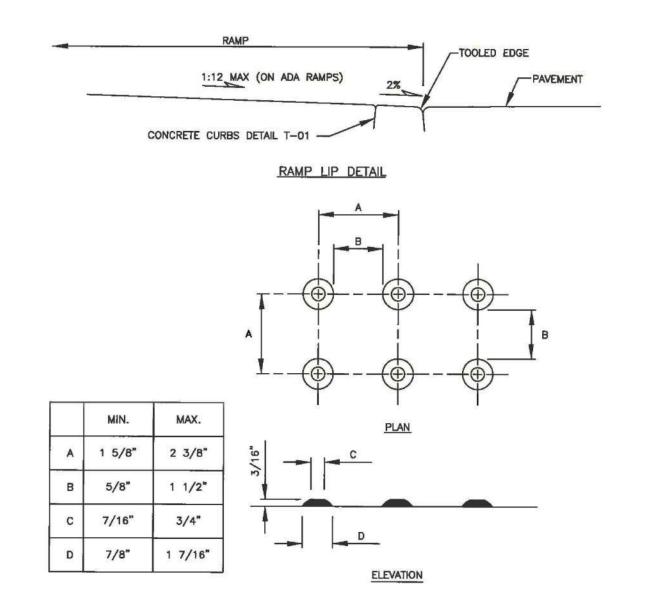
Bart Stepp 5/8/13 PUBLIC WORKS DIRECTOR DATE

- THE MIX TEMPERATURE SHALL BE 325 DEGREE MAXIMUM AT THE TIME OF PLANT DISCHARGE. AT THE TIME OF PLACEMENT, THE MIX TEMPERATURE SHALL BE 250 DEGREE MINIMUM.
- ② BASE COURSE SHALL CONSIST OF CRUSHED AGGREGATE BASE COURSE, MEETING THE REQUIREMENTS OF SECTION 4-04 OF THE STANDARD SPECIFICATIONS. COMPACTION SHALL BE TO 95% MAXIMUM DENSITY AS DESCRIBED IN SECTION 2-03 OF THE STANDARD SPECIFICATIONS. EACH LIFT SHALL NOT EXCEED 0.5'. AN EQUIVALENT DEPTH OF ASPHALT TREATED BASE (ATB) MAY BE SUBSTITUTED. ATB LIFTS SHALL NOT EXCEED 0.35'.
- 2 TRENCH ZONE GRAVEL BACKFILL AS APPROVED BY LOCAL AGENCY OR WSDOT SPECIFICATIONS FOR GRAVEL BACKFILL (SECTION 9-03.10, AGGREGATE FOR GRAVEL BASE). COMPACTED TO 95% OF MAXIMUM DENSITY IN THE TRENCH ZONE USING METHOD C COMPACTION AS PER SECTION 2-03.3 (14). THE INSPECTOR SHALL EVALUATE THE BACKFILL BASED ON GRADATION AND MOISTURE. MATERIALS WET OF OPTIMUM MOISTURE CONTENT MAY BE REJECTED. MATERIALS DRY OF OPTIMUM MOISTURE CONTENT WILL NEED ADDITIONAL MOISTURE DURING COMPACTION. TRENCH ZONE WIDTH -- SEE BELOW.

TRENCH ZONE WIDTH PIPE 8 IN. OR MORE = PIPE O.D. +2 FT. PIPE 6 IN. OR LESS = PIPE O.D. +1 FT. OR AS DIRECTED BY THE ENGINEER

- 3 PIPE BEDDING AND PIPE ZONE BACKFILL MATERIALS SHALL BE PER UTILITY OWNERS AND/OR CITY SPECIFICATIONS. DEPTH OF COVER MAY BE ADJUSTED PER UTILITY OWNERS, AND/OR CITY SPECIFICATIONS. 90% COMPACTION PER SEC. 7-08.3(1)C
- THE EXISTING ROAD SURFACE SHALL BE CUT IN A NEAT LINE PRIOR TO PAVEMENT REPLACEMENT BY SAWCUTTING OR WHEEL CUTTER OR PLANING EQUIPMENT. THIS WILL BE REQUIRED AROUND THE PERIMETER OF ALL EXCAVATIONS TO PROVIDE CLEAN, STRAIGHT, VERTICAL SIDES. THE CUT LINE SHALL BE ONE CONTINUOUS STRAIGHT LINE FROM THE OUTER EXCAVATION LIMITS OF MANHOLE,
- VALVE BOX, ETC. TO MANHOLE, VALVE BOX, ETC. (5) THE EDGES OF ALL EXISTING ASPHALT SURFACES SHALL BE CLEANED AND A TACK COAT SHALL BE APPLIED PER SECTION 5-04 OF THE STANDARD SPECIFICATIONS.
- 6 ALL JOINTS SHALL BE SEALED USING HEATED PAVING ASPHALT PG58-22 OR PG64-22, AND SANDED

A COLON	STD TRENCH RESTORATION GRA	ANUAL BACK	KFILL-HN	MA OR BEST	SURFACE	
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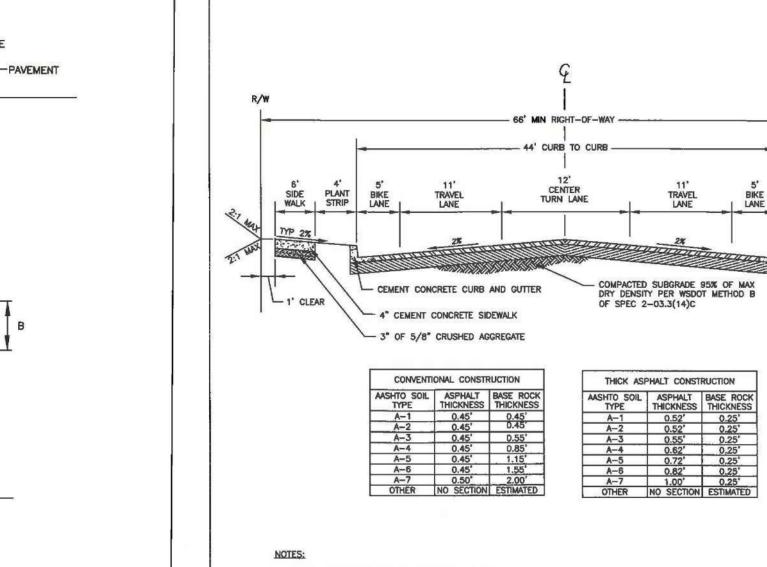


WORKS DIRECTOR.

- DETECTABLE WARNINGS SHALL BE MANUFACTURED USING THE MATERIALS SPECIFIED ON THE PLAN SHEETS WITH THE DOME DIMENSIONS AND SPACING SHOWN AND INSTALLED PER THE MANUFACTURER'S
- 2. DETECTABLE WARNINGS SHALL BE INSET INTO NEW CONCRETE WITH NO AIR TRAPPED UNDERNEATH. GLUED ON OR NAILED DOWN PRODUCTS ARE NOT ACCEPTABLE FOR NEW CONSTRUCTION.
- 3. SAFETY YELLOW TRUNCATED DOMES ARE REQUIRED UNLESS OTHERWISE APPROVED BY THE PUBLIC

DETECTABLE WARNING PATTERN DETAIL

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1. WIDER SIDEWALKS MAY BE REQUIRED BY REVIEWING AUTHORITY UNDER CERTAIN CIRCUMSTANCES.

- 2. SUBGRADE REINFORCEMENT GEOTEXTILES SHALL BE INSTALLED OVER A-6 AND A-7 SOILS PRIOR TO CONSTRUCTING THE BASE AND SURFACING.
- 3. ASPHALT SURFACE FOR ALL ROADS SHALL BE HMA CLASS 1/2" PG 64-22 PER WSDOT STANDARD SPECIFICATIONS.
- 4. THE PAVEMENT STRUCTURE THICKNESSES IDENTIFIED FOR THESE SOIL TYPES ARE REQUIRED UNLESS A SITE SPECIFIC PAVEMENT DESIGN IS DONE. THE TOTAL PAVEMENT STRUCTURE SHALL NOT EXCEED 2.5 FEET.
- 5. EITHER CONVENTIONAL OR THICK ASPHALT CONSTRUCTION IS ALLOWED.
- 6. BASE ROCK SECTION SHALL BE TWO (2) INCHES OF 5/8"- 0" TOP COURSE, OVER REMAINING DEPTH OF BASE COURSE PER WSDOT STANDARD SPEC SECTION 9-03.9(3). TOTAL BASE ROCK SECTION THICKNESS AS INDICATED IN THE TABLES. BASE ROCK WILL BE COMPACTED TO MEET SPEC 2-03.3(14)D.

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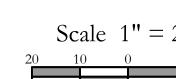


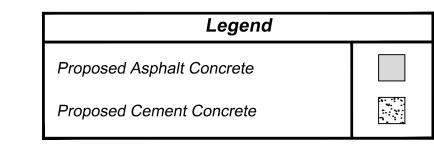
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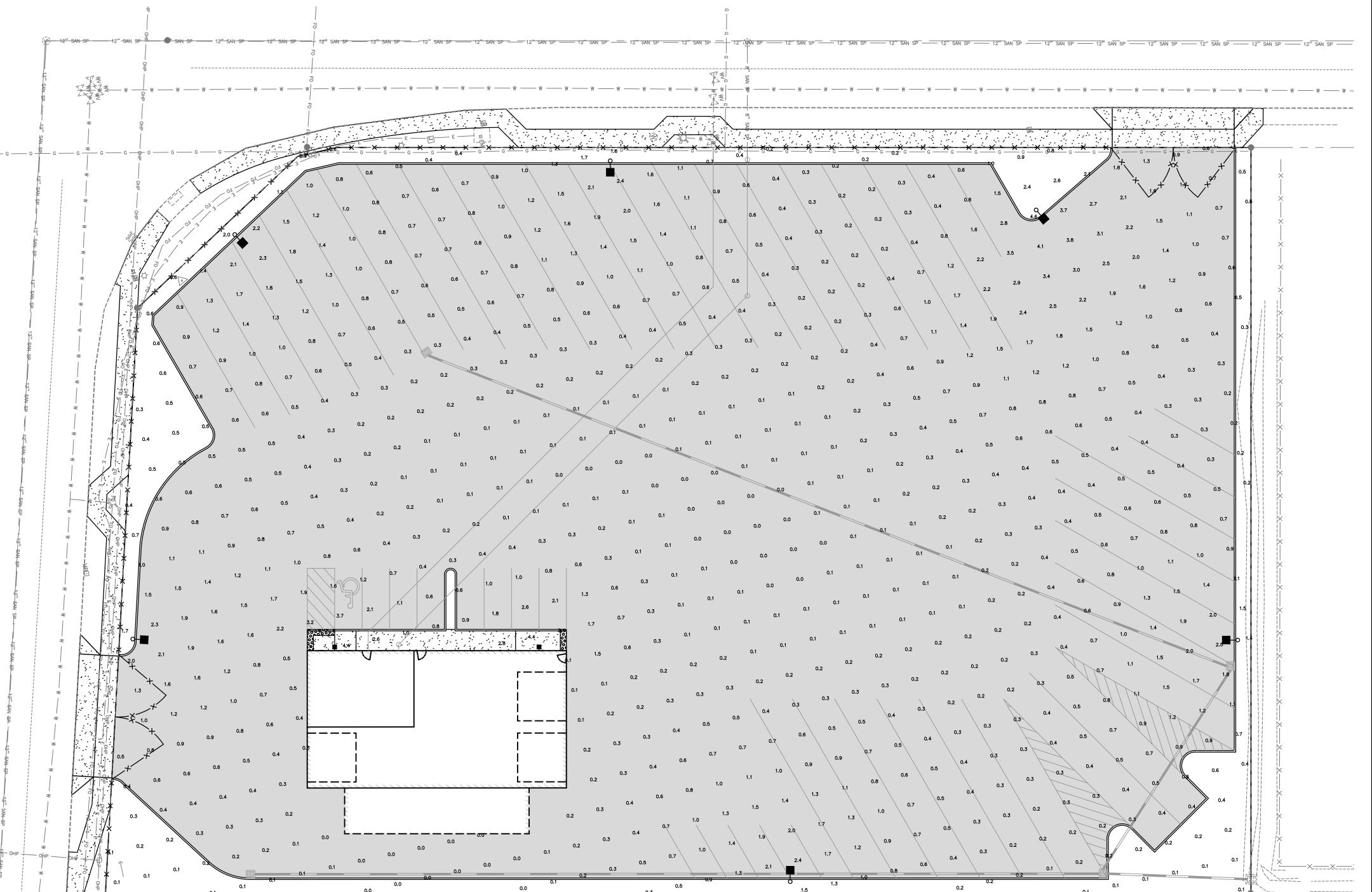
MANUFACTURER AND CATALOG NUMBER

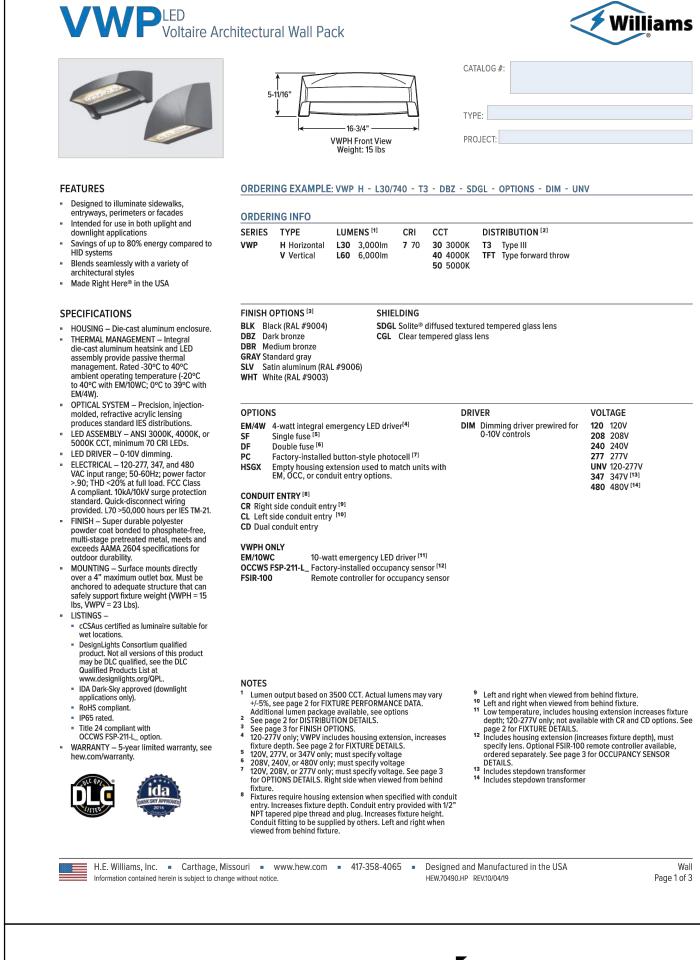
LITHONIA DSX1-LED-P2-40K-T4M-MVOLT

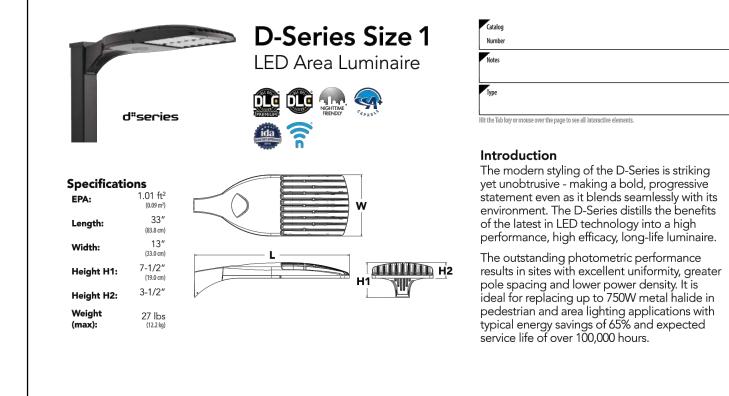
WILLIAMS VWPH-L60-730-T3-SDGL-DIM-UNV

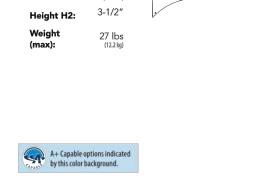
LED POLE LIGHT

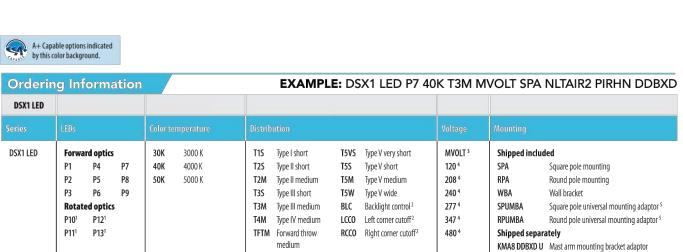
LED WALL PACK LIGHT











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NLTAIR2	nLight AIR generation 2 enabled 7	
PIRHN	Network, high/low motion/ambient sensor 8	PIRI
PER	NEMA twist-lock receptacle only (controls ordered separate) 9	PIR1
PER5	Five-pin receptacle only (controls ordered separate) 9,10	1 111
PER7	Seven-pin receptacle only (controls ordered separate) 9,10	PIRE
DMG	0–10v dimming wires pulled outside fixture (for use with an external control, ordered separately) 11	FAO
DS	Dual switching 12,13,14	

High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 5fc 15,16

HS House-side shie High/low, motion/ambient sensor, 15–30' mounting height, ambient sensor enabled at 5fc 15,16 High/low, motion/ambient sensor, 8–15' mounting height, ambient sensor enabled at 1fc 15,16 FC3V Bi-level, motion/ambient sensor, 15-30' mounting height, ambient sensor enabled at 1fc 15,16 Field adjustable output 14

DDBXD Dark bronze HS House-side shield 17 DBLXD Black SF Single fuse (120, 277, 347V) 4 DNAXD Natural aluminum Double fuse (208, 240, 480V) 4 DWHXD White DDBTXD Textured dark bronze L90 Left rotated optics 1 DBLBXD Textured black R90 Right rotated optics 1 Shipped separately DNATXD Textured natural BS Bird spikes 18 **DWHGXD** Textured white EGS External glare shield 18

DSX1-LED

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Rev. 11/25/19

LITHONIA LIGHTING. COMMERCIAL OUTDOOR

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IMPLEMENTATION OF THIS PLAN SHALL NOT PROCEED UNTIL ISSUANCE OF ALL RELATED PERMITS.

ALL WORK IS TO BE PERFORMED BY LICENSED CONTRACTORS AND EXPERIENCED WORKERS.

SITE AREA 48 HOURS PRIOR TO ANY EXCAVATION.

PRIOR WRITTEN APPROVAL OF THE LANDSCAPE ARCHITECT.

17. FINISH GRADE SHALL BE SET TO ALLOW POSITIVE DRAINAGE

23. CROWN LAWN AREAS AND GRADE TO PROVIDE POSITIVE DRAINAGE. 24. ROLL LAWN AREA TO INSURE PROPER COMPACTION TO MINIMIZE SETTLING.

29. STAKE ALL TREES OVER 6 FT. IN HEIGHT PER DETAILS ON THIS SHEET.

18. ROTOTILL 2" OF COMPOST INTO ALL PLANTED AREAS.

MANUFACTURERS INSTRUCTIONS.

APPLIED WITH ROLLER OR HYDROSEED.

30. REFER TO DETAILS FOR ADDITIONAL INFORMATION.

DRAINAGE AWAY FROM CROWN.

FIBROUS ROOT SYSTEMS.

FROM PLANS.

THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO CONSTRUCTION.

FULLY FLOODED WITH WATER SHALL DRAIN WITHIN (12) HOURS OF FILLING.

20. INCORPORATE 10-20-20 FERTILIZER INTO THE ROOT ZONE OF ALL NEW PLANTINGS.

'STANDARD FOR NURSERY STOCK'.

PLANTING PRACTICES.

CONTRACTOR'S WORK.

PLANT QUANTITIES ARE FOR INFORMATION ONLY. IN CASE OF ANY DISCREPANCY, THE PLAN SHALL GOVERN.

THE CONTRACTOR IS TO VERIFY THE LOCATION OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES PRIOR TO PERFORMING ANY EXCAVATION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO UTILITIES CAUSED BY THE

ALL PLANT MATERIALS SHALL MATCH SPECIFICATIONS PER SPECIES AND SHALL COMPLY WITH ANSI Z60.1

10. THE CONTRACTOR SHALL ADHERE TO THE WASHINGTON ASSOCIATION OF NURSERYMEN'S GUIDELINES FOR

12. THE CONTRACTOR IS RESPONSIBLE FOR THE VIABILITY OF ALL PLANT MATERIAL FOR 2 YEARS AFTER

15. TREE LOCATIONS MAY BE ADJUSTED IN THE FIELD TO SUIT SITE REQUIREMENTS AS DIRECTED BY THE

COMPLETION OF PLANTING. DISEASED, DYING, OR DEAD PLANT MATERIAL SHALL BE REPLACED BY THE

CONTRACTOR DURING THE TWO YEAR PERIOD AND MAINTAINED FOR AN ADDITIONAL 2 YEAR PERIOD.

13. IMMEDIATELY UPON BID AWARD, CONTRACTOR SHALL SECURE THE PLANT MATERIALS AS SPECIFIED FROM AVAILABLE SOURCES. IN THE EVENT THAT PLANT MATERIALS ARE NOT AVAILABLE, CONTACT LANDSCAPE

CONTRACTOR'S WORK, AT NO ADDITIONAL COST TO THE OWNER. CONTACT ALL UTILITY PROVIDERS SERVING THE

THE CONTRACTOR SHALL REPAIR ANY DAMAGE TO EXISTING ELEMENTS ON AND OFF SITE, RESULTING FROM THE

ARCHITECT FOR APPROVED SUBSTITUTIONS. NO SUBSTITUTION FOR PLANT MATERIAL WILL BE ALLOWED WITHOUT

TOP DRESS ALL SHRUB AND GROUND COVER AREAS (NOT LAWN) WITH 3" OF FIR BARK MULCH. SUBMIT SAMPLE TO

16. THE CONTRACTOR SHALL ENSURE THAT ALL EXCAVATED PLANTING PITS HAVE POSITIVE DRAINAGE. PLANT PITS

19. INCORPORATE PEAT INTO THE ROOT ZONE OF RHODODENDRONS, AZALEAS AND OTHER ACID LOVING PLANTS.

INSTRUCTIONS. SUFFICIENT TIME SHALL BE GIVEN TO ALLOW EXISTING MATERIAL TO DIE. REMOVE EXISTING 27.

21. RONSTAR, OR APPROVED EQUAL, PREEMERGENT HERBICIDE TO BE APPLIED TO ALL PLANTED AREAS PER

THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING TURF PLANTED WITHIN THE RIGHT OF WAY.

25. AMEND SOIL IN LAWN AREAS WITH 80 LBS. OF DOLOMITE LIME AND 40 LBS. OF 10-20-20 SLOW RELEASE FERTILIZER OR EQUIVALENT. PROVIDE A 3" LAYER OF SANDY LOAM TOPSOIL FOR LAWN AND BED AREA. 26. SEED LAWN AREAS WITH GRASS SEED MANUFACTURER'S RECOMMENDATIONS. COVER SEED WITH FINE MULCH

22. EXISTING VEGETATION TO BE SPRAYED WITH ROUNDUP, OR APPROVED EQUAL, PER MANUFACTURERS

27. THE PROPERTY OWNER IS RESPONSIBLE FOR MAINTAINING TURF PLANTED WITHIN THE RIGHT OF WAY.

31. ALL PLANTING SHALL BE IRRIGATED BY AN AUTOMATIC UNDERGROUND SPRINKLER SYSTEM.

28. PLANT MATERIAL SHALL BE PLANTED W/ROOT CROWN I" ABOVE FINISHED GRADE TO ALLOW POSITIVE

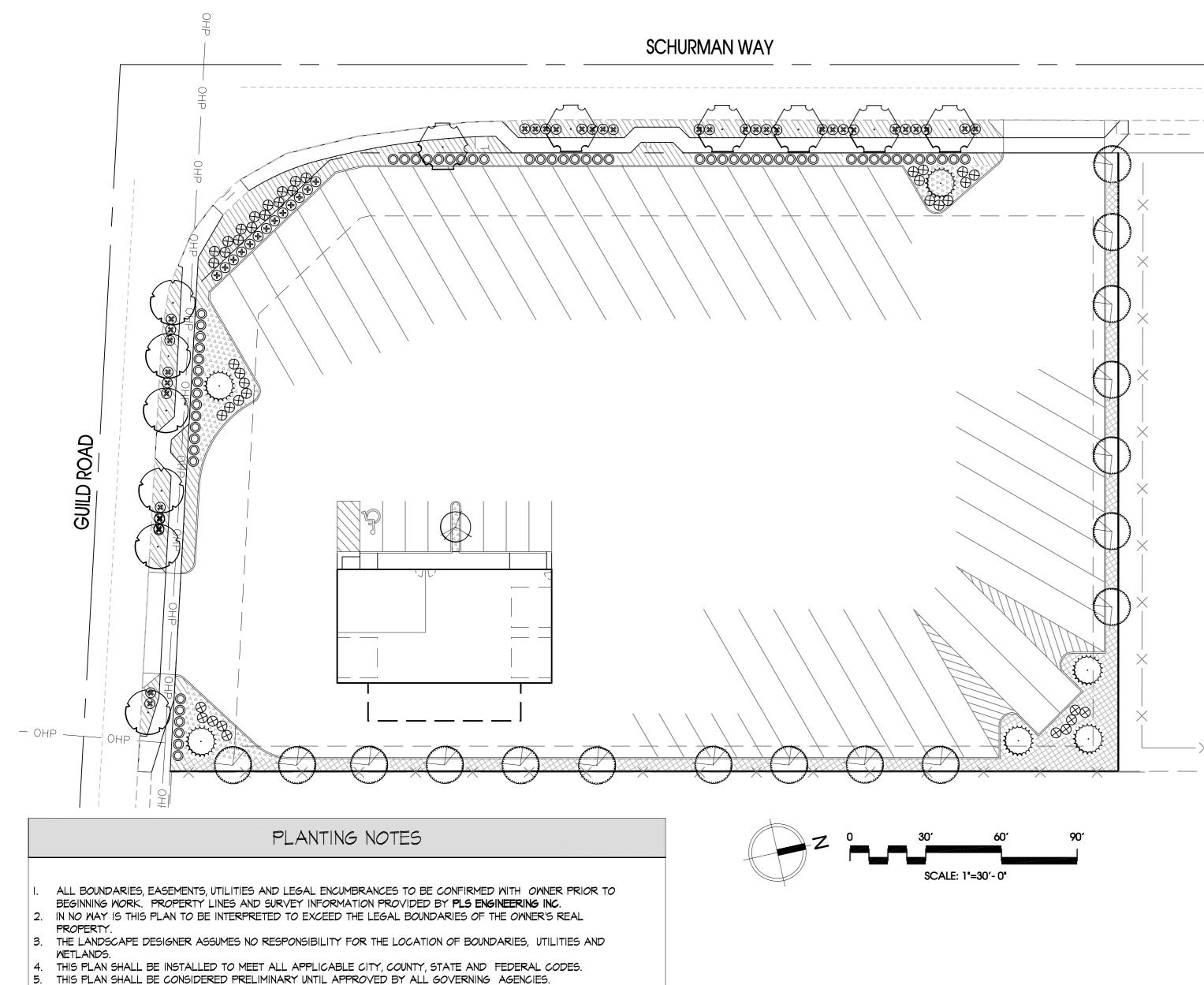
32. ALL PLANT MATERIALS FURNISHED ARE TO BE HEALTHY, UNIFORMLY BRANCHED AND WITH WELL DEVELOPED

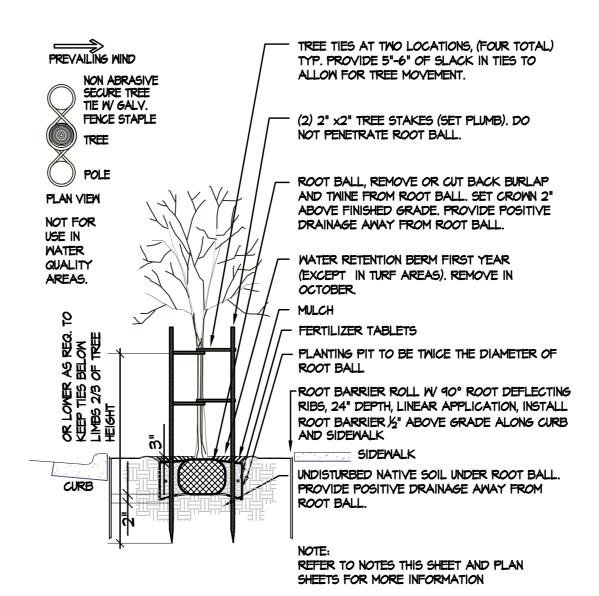
33. ALL PLANT MATERIALS FURNISHED ARE TO BE FREE FROM DEAD OR BROKEN BRANCHES, LICHENS, SCARS,

THE REQUIREMENTS OF THE WASHINGTON STATE DEPARTMENT OF AGRICULTURE FOR NURSERY PLANT MATERIALS SOLD FOR WHOLESALE OR RETAIL. ALL PRUNING WOUNDS MUST BE WELL HEALED WITH NO

34. FIELD CONFIRM ALL SITE CONDITIONS, AREAS AND SIZES PRIOR TO BIDDING & CONSTRUCTION. DO NOT SCALE

BROKEN BARK OR WOUNDS. ALL PLANT MATERIALS WILL BE INSECT, WEED, AND DISEASE FREE ACCORDING TO





B & B Tree Planting Detail

Not To Scale SECTION / PLAN VIEW · (2) 2"X2" TREE STAKES (SET PLUMB). DO NOT PREVAILING WIND PENETRATE ROOT BALL. NON ABRASIVE SECURE TREE TIE W GALV. TREE TIES AT TWO LOCATIONS, (FOUR TOTAL), TYP. FENCE STAPLE PROVIDE 5"-6" OF SLACK IN TIES TO ALLOW W/ TREE FOR TREE MOVEMENT.) POLE ROOT BALL, REMOVE OR CUT BACK BURLAP AND TWINE FROM ROOT BALL. SET CROWN 2" PLAN VIEW ABOVE FINISHED GRADE, PROVIDE POSITIVE DRAINAGE AWAY FROM ROOT BALL.

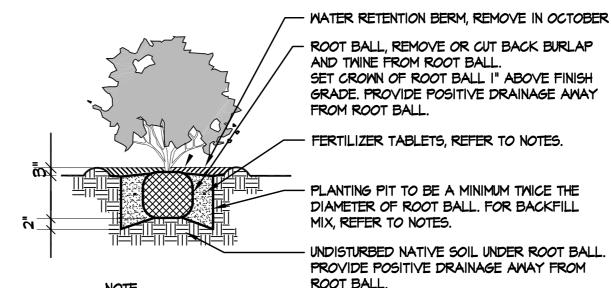
- WATER RETENTION BERM FIRST YEAR (EXCEPT IN TURF AREAS). REMOVE IN OCTOBER. MULCH, REFER TO NOTES THIS SHEET PLANTING PIT TO BE TWICE THE DIAMETER OF ROOT BALL. FOR BACKFILL MIX, REFER TO NOTES THIS SHEET

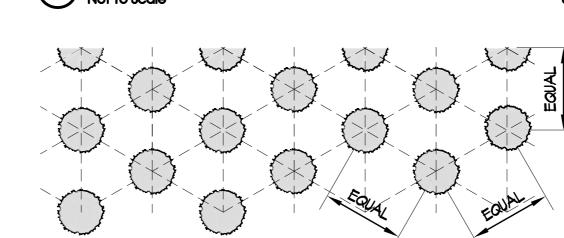
FERTILIZER, REFER TO NOTES THIS SHEET

UNDISTURBED NATIVE SOIL UNDER ROOT BALL PROVIDE POSITIVE DRAINAGE AWAY FROM

REFER TO NOTES THIS SHEET AND PLAN SHEETS

FOR MORE INFORMATION B & B Tree Planting Detail: Evergreen under 8' Height
Not To Scale SECTION / PLAN VIEW





GROUND COVER TO BE LOCATED ONE HALF OF SPECIFIED SPACING DISTANCE

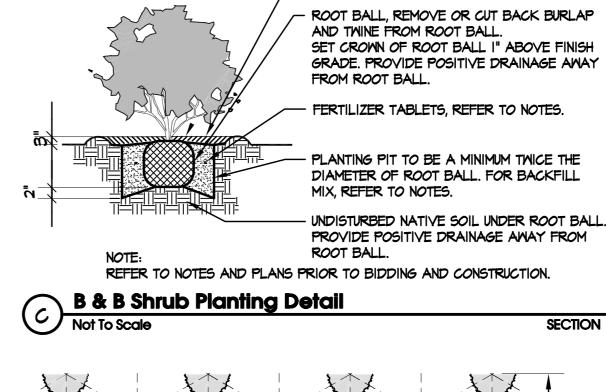
Not To Scale

	PLANT LEGEND		
SYMBOL	BOTANICAL / COMMON NAME	SIZE	QUANTIT
TREES			
	ACER RUBRUM 'ARMSTRONG' ARMSTRONG MAPLE	2" cal. min.	17
\bigcirc	ACER GRANDIDENTATUM 'SCHMIDT' ROCKY MOUNTAIN GLOW MAPLE	2" cal. min.	6
d'.	CALOCEDRUS DECURRENS INCENSE CEDAR	6' ht. min.	6
$\langle \cdot \rangle$	CARPINUS BETULUS 'FASTIGIATA' EUROPEAN HORNBEAM	2" cal. min.	6
	PYRUS CALLERYANA 'CAPITAL' CAPITAL ORNAMENTAL PEAR	2" cal. min.	1
SHRUBS			
*	ILEX X MESERVEAE 'BLUE BOY' BLUE BOY HOLLY	5 <i>G</i> AL.	48
0	PRUNUS LAURACER. 'OTTO LUYKEN' OTTO LYUKEN'S LAUREL	5 GAL.	59
\otimes	VIBURNUM DAVIDII DAVID VIBURNUM	5 GAL.	41
GROUNDCOVE	RS*		•
	ARCTOSTAPHYLOS UVA URSI 'MASS.' MASSACHUSETTS KINIICKINNICK	I GAL.	30" O.C.
	RUBUS CALYCINOIDES CREEPING RASPBERRY	I GAL.	30" O.C.
	ARCTOSTAPHYLOS, COTONEASTER DAMMERI, OR TURF PER OWNER	I GAL.	30" O.C.

LANDSCAPE STATISTICS			
GROSS LOT AREA	89,001+/- SF		
TOTAL LANDSCAPE AREA	8,928+/- SF (IO%)		
GROUNDCOVER AREA	4,965+/- SF		
TREE CANOPY AND SHRUB AREA	3,963+/- SF		
SETBACK AREA	5,475+/- SF		
TOTAL PARKING AREA	1.440+/- SF		
PARKING AREA LANDSCAPE	57.5+/- SF		

IRRIGATION NOTE

ALL LANDSCAPE AREAS SHALL BE IRRIGATED WITH AN AUTOMATIC DRIP AND/OR SPRAY IRRIGATION SYSTEM. REFER TO CIVIL ENGINEERING PLANS FOR WATER SOURCE.



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NOTES.			

ALL GROUND COVER SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING AS SPECIFIED IN PLANTING LEGEND.

FROM ANY HARD SURFACE, UNLESS OTHERWISE SPECIFIED.

Ground Cover Planting Detail

PLAN VIEW

DRAWN:	CHECKED:
SCALE: " = 30'-0"	DATE: 01-05
JOB #:	•
ISSUED FOR: PLR	2
REVISIONS:	
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3	
4	
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<u></u>	
SHEET NAME:	

PRELIMINARY

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