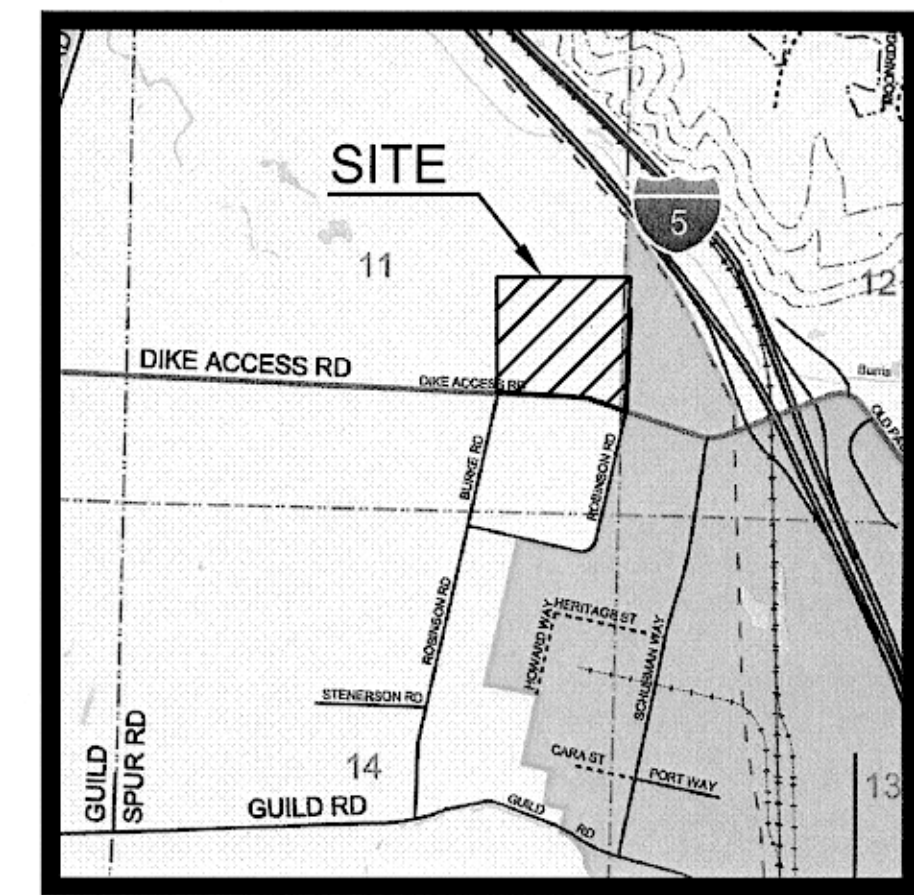
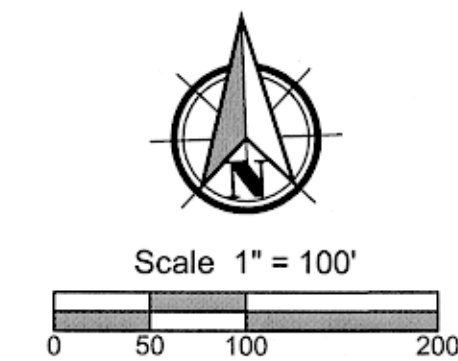
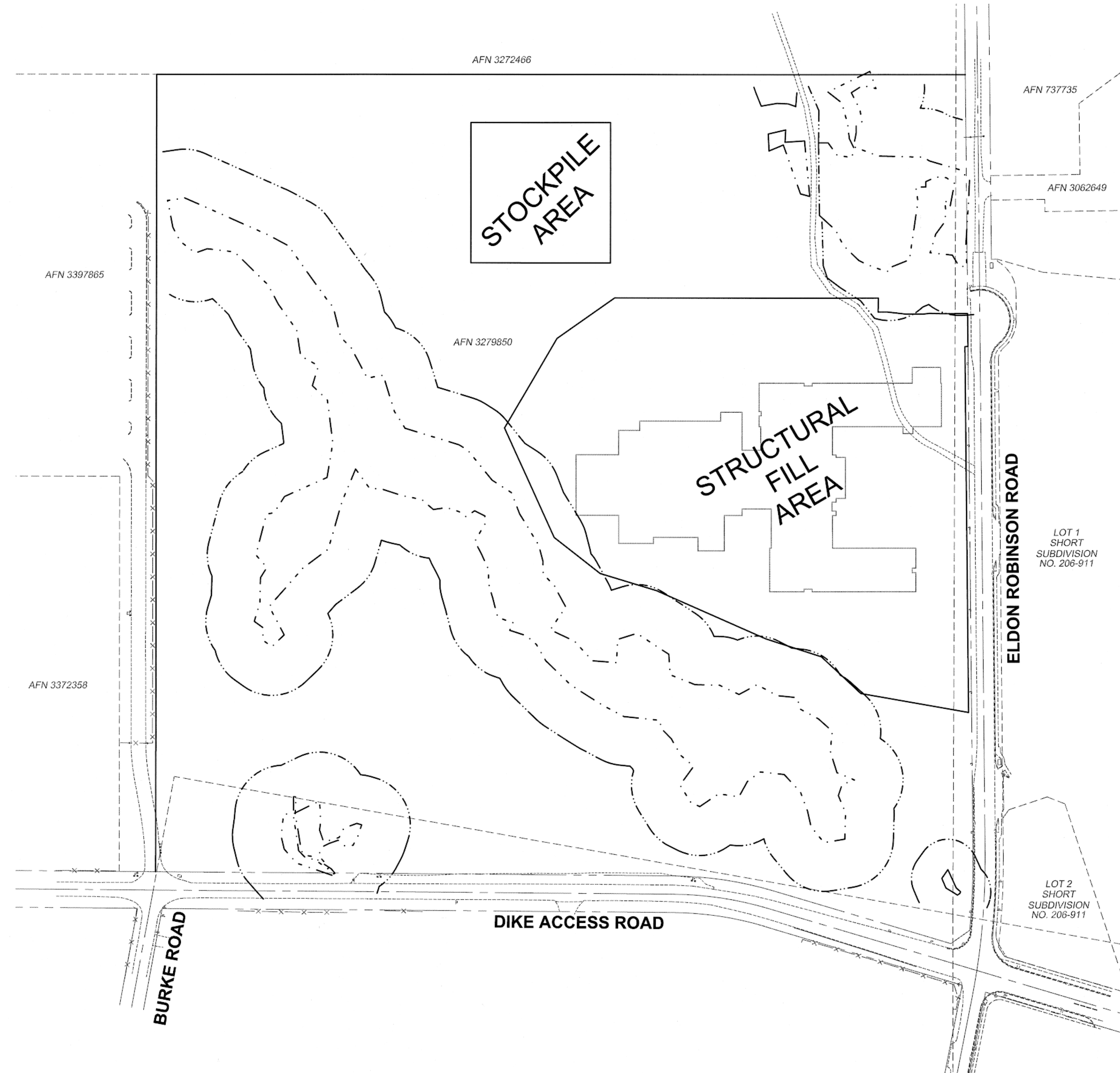


WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP

T. 5 N., R. 1 W., SEC 11 & 12



VICINITY MAP
NOT TO SCALE

Sheet Index	
C-001	COVER SHEET
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C-101	EXISTING CONDITIONS PLAN
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C-302	STANDARD CITY OF WOODLAND DETAILS

Project Summary:

Phase 1 of the Woodland High School project involves the preparation of a building pad for the subsequent building project. Work included in Phase 1 (this project) includes:

- Installation of erosion control measures, such as inlet protection, construction entrance with wheel wash, sediment basin, and silt fence;
- Clearing, mowing and striping of the site;
- Design and installation of a bidder designed Aggregate Pier Ground Improvement system; (the Aggregate Piers will be submitted for permit separately from the grading permit.)
- Installation and protection of settlement monitoring plates;
- Import, placement and compaction of structural fill;
- Import and placement of additional surcharge material;
- Continuous monitoring and maintenance of erosion control measures through the surcharge period.

The work of Phase 1 includes installation of surcharge material that is intended to compact the building pad in preparation for the subsequent building that will be constructed in Phase 2. The installation of the surcharge material will include installation of settlement monitoring plates which will allow the Owner's Geotechnical Engineer to monitor the progress of soil settlement through the surcharge period.

City Of Woodland	
Grading Only	
Approved _____	Date _____

Owner:
Woodland School District 112
800 3rd Street
Woodland, WA 98674
Phone - (360) 841-2700

Architect:
McGRANAHAN architects
2111 Pacific, Suite 100
Tacoma, WA 98402
Phone - (253) 383-3084

Civil Engineer / Surveyor:
HDJ Design Group, PLLC
300 W 15th Street, Suite 301
Vancouver, WA 98660

Geotechnical Engineer:
Columbia West Engineering Inc.
11917 NE 95th Street,
Vancouver, WA 98682
Phone - (360) 823-2900

PRELIMINARY
SUBJECT TO AGENCY REVIEW
NOT FOR CONSTRUCTION

No.	Revision	Date	By	App'd
A	PRELIMINARY - ISSUED FOR REVIEW		JBA	TWD

300 W 15th Street
Vancouver, WA 98660-2927
360.695.3488
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Internet: www.hdjdg.com



DESIGNED: JBA
DRAWN: CAD
CHECKED: TWD
SCALE
HORIZONTAL: 1"=100'
VERTICAL: N/A
DATE: MARCH 2013
HJDJ JOB #: 3294_1

WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
COVER SHEET

SHEET ID
C-001
SHEET 1 OF 10

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General Notes:

The Owner will obtain the grading permit and the NPDES Permit. The Contractor shall procure the aggregate pier permit all other permits and licenses from the City of Woodland and all applicable agencies, pay all charges and fees and give all notices necessary (2 working days min.) prior to commencement of construction.

All construction, workmanship and materials shall conform to the City of Woodland Construction Standards and the Washington State "Standard Specifications for Road, Bridge, and Municipal Construction 2012" unless revised here within.

All construction shall be in accordance with NPDES construction stormwater permit and the Stormwater Pollution Prevention Plan (SWPPP). The Contractor shall have a copy of the SWPPP on the construction site at all times. SWPPP logs shall be kept current and all required entries to date.

It shall be the responsibility of the Contractor to verify all utility locations prior to construction and arrange for the relocation of any in conflict with the proposed construction. The locations, depth and description of existing utilities shown on the Project Plans were compiled from available records and/or field surveys. The Owner or utility companies do not guarantee the accuracy or the completeness of such records. Additional existing utilities may exist within the work area.

The contractor shall post emergency telephone numbers for police, fire, ambulance, and those agencies responsible for the maintenance of utilities in the jobsite.

Should it appear that the work to be done or any matter relative there to is not sufficiently detailed or explained on the Phase 1 Grading Plans, the Contractor shall submit an RFI (Request for Information) to the Architect.

A geotechnical report has been prepared for the Woodland High School project by Columbia West Engineering (Project Geotechnical Engineer), dated November 20, 2012, titled "Geotechnical Site Investigation Woodland High School". It is the Contractor's responsibility to obtain a copy, review and familiarize him/herself with the report. For report interpretation and questions the Contractor shall submit an RFI (Request for Information) to the Architect.

Wetlands and wetland buffers are shown on the Phase 1 Grading Plans and shall be field marked by the Project Surveyor prior to construction of this project. Except where shown on the plans and marked in the field, the Contractor shall not disturb, place or allow any construction activities within the wetlands and wetland buffers.

Inadvertent Discovery

In the event any archaeological or historic materials are encountered during project activity, work in the immediate area (initially allowing for a 100' buffer; this number may vary by circumstance) must stop and the following actions taken:

1. Implement Reasonable Measures to protect the discovery site, including any appropriate stabilizations or covering; and
2. Take reasonable steps to insure the confidentiality of the discovery site; and,
3. Take reasonable steps to restrict access to the site of discovery.

The project proponent will notify the concerned Tribes and all appropriate county, state, and federal agencies, including the Department of Archaeology and Historic Preservation. The agencies and Tribe(s) will discuss possible measures to remove or avoid cultural material, and will reach an agreement with the project proponent regarding actions to be taken and disposition of material.

If human remains are uncovered, appropriate law enforcement agencies shall be notified first, and the above steps followed. If the remains are determined to be Native, consultation with the affected Tribes will take place in order to mitigate the final disposition of said remains.

See the Revised Code of Washington, Chapter 27.53, "Archaeological Sites and Resources," for applicable state laws and statutes. See also Washington State Executive Order 05-05, "Archaeological and Cultural Resources." Additional state and federal law(s) may also apply.

Erosion Control:

Erosion control measures shall be installed before construction activities can commence.

The erosion control plan and details contained within the Phase 1 Grading Plans are a minimum requirement.

In addition to maintaining the erosion control devices, the Contractor shall upon completion of construction activities, maintain, repair to proper working order and/or replace erosion control, drainage, slope protection, and general site stability devices.

Grading:

Site Preparation

Before any work can commence, Contractor shall flag clearing limits of Structural Fill and Stockpile Areas.

Project Surveyor shall field mark existing wetlands and wetland buffers. Contractor to protect existing wetlands and wetland buffers at all times. All site preparation, topsoil stripping, and grading activities shall be observed and documented by the Project Geotechnical Engineer or it's designated representative.

All topsoil strippings are to remain on-site. Topsoil strippings shall be placed in the Stockpile Area in a neat manner and covered with plastic per the plan detail. Prior to topsoil stripping activity, Structural Fill and Stockpile Areas shall be mowed leaving grass stubble not exceeding 2 inches in height. Non-grass vegetation, woody debris and deleterious materials shall be cleared from the Structural Fill and Stockpile Areas. Non-grass vegetation, woody debris and deleterious materials shall be removed, hauled and disposed of at a Contractor provided waste site.

The Structural Fill Area shall have topsoil stripped and topsoil shall be place in the Stockpile Area as noted on the plans. The Stockpile Area does not require stripping of topsoil and shall remain at existing grade. A topsoil stripping depth of approximately 6 inches is anticipated for much of the project site. The required topsoil stripping depth may increase if areas of highly organic soils are encountered. The actual depth of topsoil stripping shall be determined in the field by the Project Geotechnical Engineer during construction when subgrade conditions are exposed.

Unsuitable soil encountered during grading or construction activities shall be removed completely and thoroughly. Contractor shall contact the Project Geotechnical Engineer prior to removal. The Project Geotechnical Engineer shall determine if the above mentioned materials are suitable to be placed in the Stockpile Area or shall be removed from the project site and disposed of in the Contractor provided waste site.

During extended wet periods, topsoil stripping activities may need to be conducted from an advancing pad of granular fill material. Advancing pad material shall consist of granular import meeting WSDOT 9-03.14(1) or WSDOT 9-03.13(1) or other material approved by the Project Geotechnical Engineer. Advancing pad material shall be compacted in accordance with the Structural Fill compaction requirements.

The Contractor shall provide positive drainage to prevent surface ponding of water in the subgrade of the Structural Fill Area.

The Contractor shall repair softened or otherwise damaged subgrade soils that result from topsoil stripping, Aggregate Pier installation, or grading activities at no cost to the Owner.

Aggregate Pier Installation:

Aggregate pier installation shall be per the project specifications.

Working Aggregate Pad:

If the Contractor deems necessary the Contractor shall provide a Working Aggregate Pad capable of allowing Aggregate Pier installation equipment to operate and move safely and without excessive disturbance of subgrade soils.

Materials for a Working Aggregate Pad shall consist of import granular structural fill meeting WSDOT 9-03.14(1) or WSDOT 9-03.13(1) or other material approved by the Project Geotechnical Engineer, and shall be compacted to at least 95 percent of the modified Proctor dry density as determined by ASTM D1557.

Crushed surfacing base course meeting WSDOT 9-03.9(3) may be utilized as a wearing surface to cap the Working Aggregate Pad and shall be compacted to at least 95 percent of the modified Proctor dry density, as determined by ASTM D1557.

If stabilization below the Working Aggregate Pad is needed due to soft subgrade conditions, all-weather gravel, 2x4-inch gabion, or other similar material (six-inch maximum size with less than five percent passing the No. 200 sieve) shall be used.

Construction during wet weather may require increased Working Aggregate Pad thickness. Over-excavation may be necessary to provide a firm base upon which to place structural fill material. Geo-textile filter fabric may also be required and as approved by the Project Geotechnical Engineer.

Upon completion of Aggregate Pier installation, the Working Aggregate Pad shall be proof-rolled by the contractor and density tested by the Project Geotechnical Engineer according to the specifications indicated herein. Areas of the Working Aggregate Pad that do not meet testing requirements for structural fill shall be repaired at no cost to the Owner by the Contractor prior to acceptance by the Owner. In addition to the structural fill material, repair may include replacement of geosynthetic products, crushed aggregate, and over-excavation and backfill of disturbed or softened subgrade soil areas.

Settlement Plates:

Settlement plates shall be installed by the Contractor in accordance with the following specifications and Phase 1 Grading Plan details prior to placement of Structural Fill, Surcharge Fill or the installation of Aggregate Piers.

The specific location of the settlement plates shall be determined by the Project Geotechnical Engineer in the field. General locations are indicated on the Phase 1 Grading Plans. If a conflict arises with the layout of proposed Aggregate Piers, the Project Geotechnical Engineer shall be contacted to determine alternate locations for settlement plates.

Settlement mitigation shall be evaluated by periodically monitoring the elevation of settlement plates prior to fill material placement, during fill material placement, and after fill material placement. The schedule for documenting the elevation of the settlement plates by the Project Surveyor shall be as follows:

- Initial placement - One time per week throughout the duration of installation of the Aggregate Piers.
- Two times per week during the placement of the Structural and Surcharge Fill extending 30 days past the completion of the of the Surcharge Fill.
- One time per week for the period from 31 days to 60 days after the completion of the Surcharge Fill.
- One time every other week for the period of 61 days to 90 days after the completion of the Surcharge Fill
- Each occurrence of a riser rod extension.

The Project Geotechnical Engineer may alter the survey schedule based upon measured displacement and actual rates of consolidation.

The following are specifications for settlement plate installation:

Care should be taken during construction not to disturb, alter, move, or damage the settlement plates.

Settlement plates shall be placed level upon neatly excavated subgrade soils. The riser rod should be maintained plumb throughout construction. Installation of settlement plates should be directed, overseen, and documented by the Project Geotechnical Engineer.

Settlement plates should consist of square steel plates with a vertical riser rods, dimensions as shown on the Settlement Plate detail and extend through the engineered Structural and Surcharge Fills.

The extension of the riser rods shall be conducted under the direct supervision of the Project Geotechnical Engineer. Survey of the existing top-of-riser and new top-of-riser shall be required at the time of extension to monitor any settlement that has already taken place.

Structural Fill:

Upon completion of Aggregate Pier installation and acceptance of the subgrade or Working Aggregate Pad as structural fill, the Contractor shall then place structural fill and geo-grid to the lines and grades designated on the Phase 1 Grading Plans.

Structural fill material shall consist of granular import meeting WSDOT 9-03.14(1) or WSDOT 9-03.13(1) or other material approved by the Project Geotechnical Engineer. Two weeks prior to placement of the structural fill, the Contractor shall provide representative samples of the proposed structural fill material to the Project Geotechnical Engineer for laboratory analysis and approval. Quantity of the structural fill samples to be determined by the Project Geotechnical Engineer.

Specified geo-grid products shall be placed as a part of the structural fill at the extents and elevations indicated on the Phase 1 Grading Plans. Geo-grid products shall consist of AllianceGeo BX2020 or approved equal meeting general requirements in WSDOT 9-33.

Structural fill shall be constructed by placing fill material in maximum 12-inch level lifts, compacting, and horizontally benching where appropriate. Structural fill material shall be compacted to at least 95 percent of the Modified Proctor dry density test, as determined by ASTM D1557.

Compaction testing of structural fill shall be performed and verified by the Project Geotechnical Engineer using nuclear gauge field compaction testing performed in accordance with ASTM D6938.

In addition to nuclear gauge density testing, a wheel proof-roll shall be conducted by the Contractor using a 12-cubic yard, double-axle dump truck or equivalent. The Project Geotechnical Engineer shall be present to observe, verify and document the wheel proof rolling.

Field compaction testing and/or a proof-roll shall be performed for each vertical foot of structural fill placed. Structural fill placement shall be observed by the Project Geotechnical Engineer.

Fill slopes greater than six feet in height shall be vertically keyed into existing subsurface soil.

A minimum horizontal setback for long-term loads of 10 feet from top of cut or fill slope face shall be maintained.

Concentrated drainage or water flow over the face of slopes shall be prohibited, and adequate protection against erosion is required.

Surcharge Fill:

Upon completion of the Structural Fill placement by the Contractor and acceptance by the Project Geotechnical Engineer, the Contractor shall place the Surcharge Fill to the lines and grades designated on the Phase 1 Grading Plans. Placement of surcharge fill material shall be observed and documented by the Project Geotechnical Engineer. Surcharge fill material shall consist of granular import meeting WSDOT 9-03.14(1) or WSDOT 9-03.13(1) or other material approved by the Project Geotechnical Engineer. Two weeks prior to placement of the surcharge fill, the Contractor shall provide representative samples of the proposed surcharge fill material to the Project Geotechnical Engineer for laboratory analysis and approval. Quantity of the structural fill samples to be determined by the Project Geotechnical Engineer.

Surcharge fill shall be constructed by placing fill material in maximum 12-inch level lifts, track compacted, and horizontally benching where appropriate.

Side-slopes for temporary surcharge stockpiles shall not exceed a gradient of 1H:1V.

Concentrated drainage or water flow over the face of slopes shall be prohibited, and adequate protection against erosion is required.

Fill within three feet horizontally from the riser of a settlement plate shall be compacted to specifications with hand equipment.

Nominal 1-inch diameter threaded steel pipe should comprise riser rods. Riser rods should be protected from Structural and Surcharge Fill by encasement with PVC pipe per the detail.

Oakum or other approved product shall be used to fill the annulus space between the riser and the protective PVC within 12 inches of the settlement plate per the detail.

Riser rods should be maintained at least two feet above the fill level.

BENCHMARK:

HDJ DESIGN GROUP MAG NAIL #80
LOCATION: SET IN SIDEWALK 3.8 FEET NORTHEAST FROM THE FACE OF CURB OF THE NORTH ACCESS RAMP DROP AT THE NORTHEAST INTERSECTION OF DIKE ACCESS ROAD AND ELDON ROBINSON ROAD.
ELEVATION: 16.31'
DATUM: NAVD 88

THE ORIGINAL BENCHMARK USED WAS COWLITZ COUNTY BENCHMARK NUMBER 286 "CC GPS 1236" (1-1/4" IRON PIPE IN A MONUMENT BOX) AT THE INTERSECTION OF THE CENTERLINE OF DIKE ACCESS ROAD AND THE CENTERLINE OF DIKE ACCESS ROAD SOUTHBOUND OFF RAMP (EXIT 22) OF INTERSTATE 5.

*THE ORIGINAL BENCHMARK HAS SINCE BEEN DESTROYED DUE TO ROAD IMPROVEMENTS.

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Vancouver, WA 98660-2927
360.695-3468
503.924-4005
360.695-9767 fax
Internet: www.hdjg.com



DESIGNED: JBA
DRAWN: CAD
CHECKED: TWD
SCALE
HORIZONTAL: N/A
VERTICAL: N/A
DATE: MARCH 2013
HDJ JOB #: 3294_1

WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
GENERAL NOTES

PRELIMINARY
SUBJECT TO AGENCY REVIEW
NOT FOR CONSTRUCTION

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Existing Linetype Legend		Proposed/Future Linetype Legend	
Existing Sanitary Sewer Pipe	SA	Proposed Sanitary Sewer Pipe	SA
Existing 4" Sanitary Sewer Pipe	4" SAN SP	Proposed Sanitary Lateral	SA
Existing 6" Sanitary Sewer Pipe	6" SAN SP	Proposed Sanitary Force Main	SA
Existing 8" Sanitary Sewer Pipe	8" SAN SP	Proposed Storm Under Drain	SA
Existing 10" Sanitary Sewer Pipe	10" SAN SP	Proposed Storm Rain Drain	SA
Existing 12" Sanitary Sewer Pipe	12" SAN SP	Proposed Storm Pipe	SA
Existing 15" Sanitary Sewer Pipe	15" SAN SP	Proposed Water Lateral	SA
Existing 18" Sanitary Sewer Pipe	18" SAN SP	Proposed Water Pipe	SA
Existing 24" Sanitary Sewer Pipe	24" SAN SP	Proposed Irrigation Pipe	SA
Existing 30" Sanitary Sewer Pipe	30" SAN SP	Proposed Irrigation Lateral	SA
Existing Sanitary Force Main	FM	Proposed Lot Line	SA
Existing Storm Sewer Pipe	ST	Proposed Flow Line	SA
Existing 4" Storm Sewer Pipe	4" STM SP	Proposed Centerline	SA
Existing 6" Storm Sewer Pipe	6" STM SP	Proposed Right-of-way	SA
Existing 8" Storm Sewer Pipe	8" STM SP	Proposed Sawcut Line	SA
Existing 10" Storm Sewer Pipe	10" STM SP	Proposed Flow Line	SA
Existing 12" Storm Sewer Pipe	12" STM SP	Proposed Easement	SA
Existing 15" Storm Sewer Pipe	15" STM SP	Proposed Curb & Gutter	SA
Existing 18" Storm Sewer Pipe	18" STM SP	Proposed End Of Pav't	SA
Existing 24" Storm Sewer Pipe	24" STM SP	Proposed Sidewalk	SA
Existing Water Pipe	W	Proposed Wall	SA
Existing 4" Water Pipe	4" WTR	Proposed Building	SA
Existing 6" Water Pipe	6" WTR	Proposed Setback	SA
Existing 8" Water Pipe	8" WTR	Proposed Property Line	SA
Existing 10" Water Pipe	10" WTR	Proposed Cut Line	SA
Existing 12" Water Pipe	12" WTR	Proposed Score Line	SA
Existing 15" Water Pipe	15" WTR	Proposed Paint Stripe	SA
Existing 18" Water Pipe	18" WTR	Proposed Fence	SA
Existing 24" Water Pipe	24" WTR	Proposed Wetland Buffer	SA
Existing Water Lateral	WTR	Proposed Wetland Perimeter	SA
Existing Irrigation Pipe	IRR	Proposed Contour	SA
Existing 4" Irrigation Pipe	4" IRR	Erosion Control Filter Fabric Fence	SA
Existing 6" Irrigation Pipe	6" IRR	Future Storm Pipe	SA
Existing 8" Irrigation Pipe	8" IRR	Future Sanitary Pipe	SA
Existing 10" Irrigation Pipe	10" IRR	Future Sanitary Lateral	SA
Existing 12" Irrigation Pipe	12" IRR	Future Water Pipe	SA
Existing Irrigation Lateral	IRR	Future Easement	SA
Existing Cable TV Line	TV	Future Curb	SA
Existing Electric Line	E	Future Sidewalk	SA
Existing Gas Line	G	Future Centerline	SA
Existing Over Head Power Line	CHP	Future Right-of-way	SA
Existing Telephone Line	T	Future Contour	SA
Existing Fiber Optic Line	FO	Future Lot Line	SA
Existing Underground Utility Line	UUL	Future Paint Stripe	SA
Existing Centerline	CL		
Existing Curb	C		
Existing Curb & Gutter	C&G		
Existing Lot Line	LL		
Existing Gravel road	GR		
Existing Flow Line	FL		
Existing Paint Stripe	PS		
Existing Right-of-way	ROW		
Existing Fence	F		
Existing Building	B		
Existing Wetland Perimeter	WLP		
Existing Wetland Buffer	WLB		
Existing Property Line	PL		
Existing Utility Easement	UE		
Existing Quarter Section	QS		
Existing Railroad	RR		
Existing Fence	F		
Existing Wall	W		
Existing Lot Line	LL		
Existing Contour	C		

Symbol Legend	
Existing Water Valve	WV
Existing Gas Valve	GV
Existing Fire Hydrant	FH
Existing Power Pole	PP
Existing Water Meter	WM
Existing Electrical Pedestal	EP
Existing Power Riser	PR
Existing Power Meter	PM
Existing Sanitary Manhole	SM
Existing Storm Manhole	STM
Existing Catch Basin	CB
Existing Area Drain	AD
Existing Combo Inlet	CI
Existing Telephone Pad	TP
Existing Telephone Riser	TR
Existing Roof Drain	RD
Existing Cleanout	CO
Existing Guy Anchor	GA
Existing Project Bench Mark	BM
Existing Iron Rod	IR
Existing Sign	S
Existing Shrub	SH
Existing Deciduous Tree	DT
Existing Coniferous Tree	CT
See Extg. Sanitary Sewer Data	SSD
See Extg. Storm Drainage Data	STD
Existing Flow Arrow	FA
Proposed Bollard	B
Proposed Street Light	SL
Proposed Road Barrier	R
Proposed Road Sign	RS
Proposed Flow Arrow	FA
Proposed Fire Protection Vault	FV
Proposed Water Meter	WM
Proposed Water Backflow Device	WBD
Proposed Water Valve	WV
Proposed Water Bend Tee W/valve	WBTV
Proposed Water Bend Tee W/tb	WBTT
Proposed Water 22 1/2" Bend W/tb	W22.5
Proposed Water 11 1/4" Bend W/tb	W11.25
Proposed Water 45" Bend W/tb	W45
Proposed Water 90" Bend W/tb	W90
Proposed Water Stand Pipe	WSP
Proposed Water Bend X	WBX
Proposed Water Temporary Blowoff	WTB
Proposed Water Standard Blowoff	WSB
Proposed Water Reducer	WR
Proposed Water Thrust Block	WTB
Proposed Fire Hydrant	FH
Proposed Catch Basins	CB
Proposed Area Drain	AD
Proposed Combination Curb Inlet	CCI
Proposed Storm Reducer	SR
Proposed Rain Drain	RD
Proposed Storm Cleanout	SC
Proposed Storm Manhole	STM
Proposed Sedimentation Manhole	SMH
Proposed Drywell	DW
Proposed Sanitary Cap	SC
Proposed Sanitary Reducer	SR
Proposed Sanitary Cleanout	SC
Proposed Sanitary Manhole	SM
Proposed Irrigation Meter	IRM
Proposed Irrigation Backflow Device	IIBD
Proposed Irrigation Valve	IV
Proposed Irrigation Bend Tee W/valve	IIBTV
Proposed Irrigation Bend Tee W/tb	IIBTT
Proposed Water 22 1/2" Bend W/tb	W22.5
Proposed Water 11 1/4" Bend W/tb	W11.25
Proposed Irrigation 45" Bend W/tb	I45
Proposed Irrigation 90" Bend W/tb	I90
Proposed Irrigation Stand Pipe	IISP
Proposed Irrigation Bend X	IIBX
Proposed Irrigation Temporary Blowoff	ITB
Proposed Irrigation Standard Blowoff	ISB
Proposed Irrigation Reducer	IR
Proposed Irrigation Thrust Block	ITB
Proposed Inlet Protection Pillow	IPP
Proposed Gravel Construction Entrance	GCE
Proposed Sedimentation Trap	ST
Erosion Control feature code & ID number (Puget Sound)	E3.30
BMP Type (Puget Sound)	BMP-1
Future Storm Manhole	SM
Future Sanitary Manhole	SM
Future Fire Hydrant	FH
Future Catch Basin	CB
Future Sanitary Cap	SC
Future Fire Protection Vault	FV
Future Water Meter	WM
Future Backflow Device	WBD
Future Valve	V
Future Bend Tee W/valve	WBTV
Future Bend Tee W/tb	WBTT
Future 22 1/2" Bend W/tb	W22.5
Future 11 1/4" Bend W/tb	W11.25
Future 45" Bend W/tb	W45
Future 90" Bend W/tb	W90
Future Stand Pipe	WSP
Future Bend X	WBX
Future Temporary Blowoff	WTB
Future Standard Blowoff	WSB
Future Reducer	WR
Future Thrust Block	WTB
Future Fire Hydrant	FH

Hatching Legend	
Proposed Asphalt Concrete	AC
Proposed Cement Concrete	CC
Proposed Gravel Road	GR

Abbreviation Legend											
Acres	AC	Compaction	COMP	Finished Floor	FF	Maximum	MAX	Stainless Steel	SS	With	W/
Assembly	ASS'Y	Concrete	CONC	Finished Grade	FG	Manhole	MH	Steel	STL	Without	W/O
Avenue	AVE	Construction	CONST	Fire Hydrant	FH	Minimum	MIN	Sidewalk	SAW	With Yellow Plastic Cap	W/YPC
Approved	APP'D	Corrugated Polyethylene	CPE	Flange	FLG	Mechanical Joint	MJ	Street	ST	Water Meter	WM
Butterfly	BF	Concrete Sewer Pipe	CSP	Force Main	FM	Number	No. or #	Station Centerline	STA	Yard	YD
Boulevard	BLVD	Court	CT	Foot / Feet	FT	Overhead Electric	OHE	Standard	STD		
Benchmark	BM	Cubic Yard	CY	Gas	G	Pavement	PAVT	Sanitary	SAN		
Blow Off	BO	Cement	CEM	Galvanized Iron	GI	Point Of Curve	PC	Storm	STM		
Back Of Curb	BOC	Depth	D	Ground	GRD	Power Pole	PP	Tangent	T		
Begin Vertical Curve	BVC	Ductile Iron	DI	Gate Valve	GV	Point Of Reverse Curve	PRC	Thrust Block	TB		
Care Of	C/O	Diameter	DIA	High Density Polyethylene	HDPE	Point Of Reverse Vertical Curve	PRVC	Temporary Benchmark	TBM		
Catch Basin	CB	Ductile Iron Pipe	DIP	Horizontal	HORIZ	Point Of Tangent	PT	Top Of Curb	TC		
Cubic Feet	CF	Down Spout	DS	High Water Elevation	HW	Point Of Vertical Intersection	PVI	Telephone	TEL		
Cast Iron	CI	Edge Of Pavement	EOP	Hydrant	HYD	Polyvinyl Chloride	PVC	Temporary	TEMP		
Cement	CEM	End Curb Return	ER	Invert Elevation	IE	Place	PL	Top Of Manhole	TOP		
Circle	CIR	Easement	ESMT	Intersection	INTX	Radius	R	Typical	TYP		
Centerline	CL	Existing	EXTG	Invert	INV	Right Of Way	R/W	Underground Electric	UGE		
Corrugated Metal Pipe	CMP	Elevation	EL	Length	L	Return	RET	Vertical Curve	VC		
Cleanout	CO	Electric	ELEC	Lateral	LAT	Right	RT	Vertical	VERT		
Combination	COMB	End Vertical Curb	EVC	Left	LT	Sheet	SHT	Water	WTR		

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Internet: www.hdjg.com



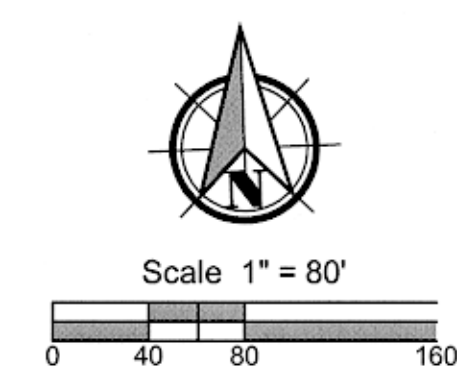
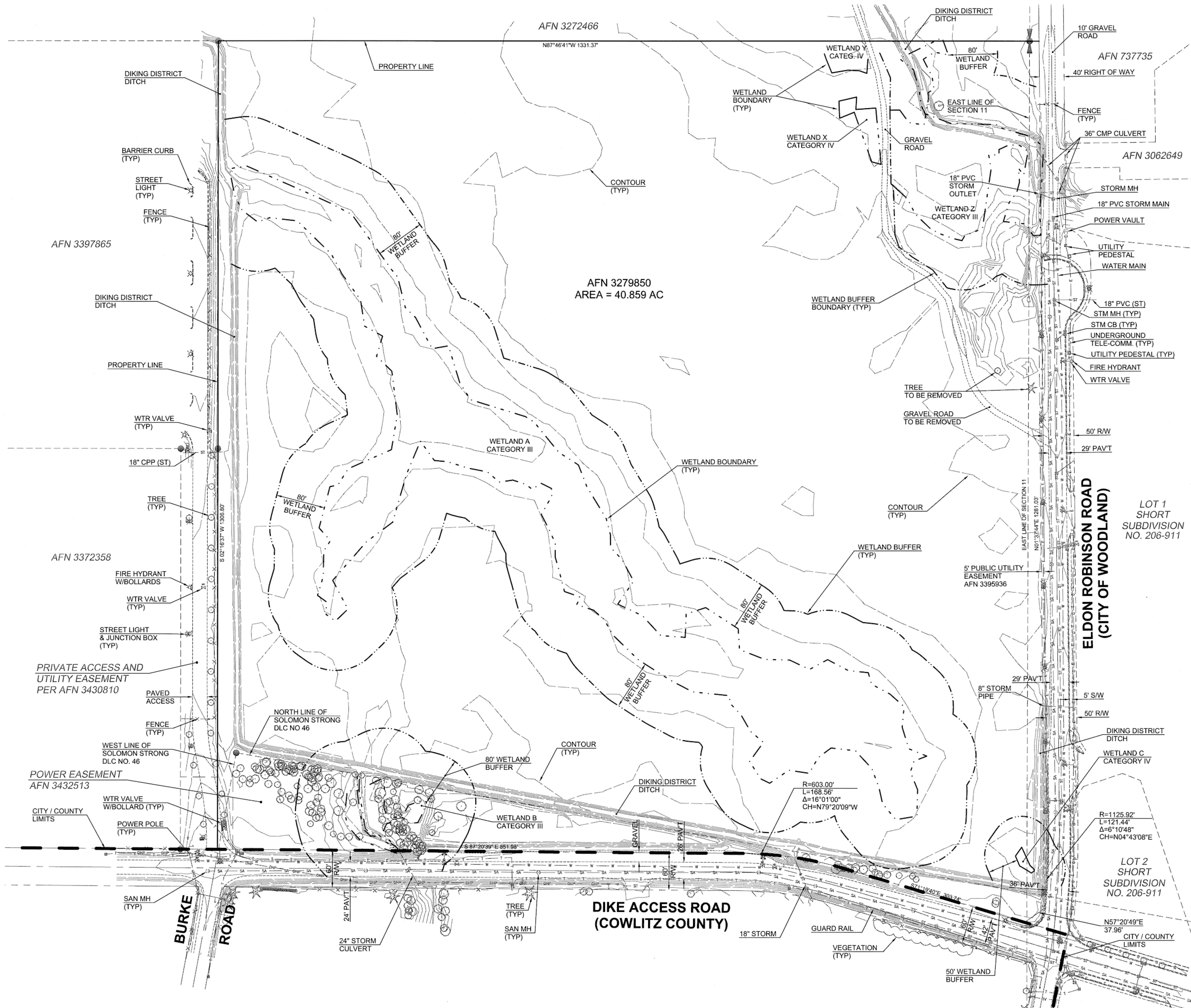
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WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
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MASTER LEGEND

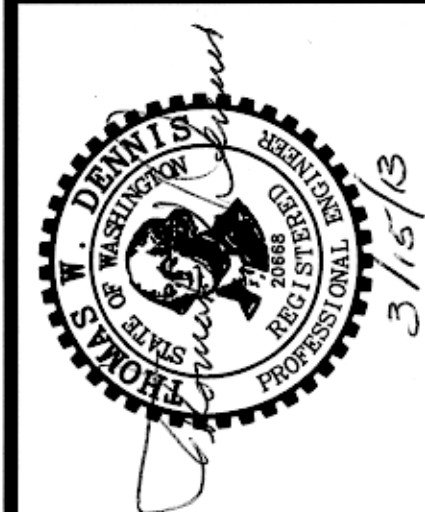
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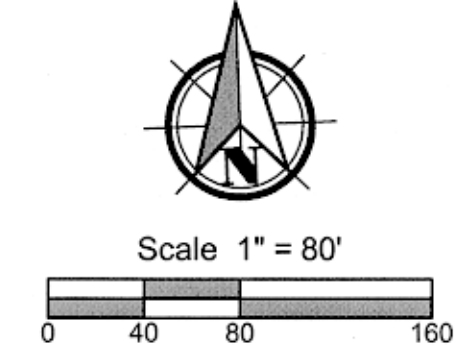
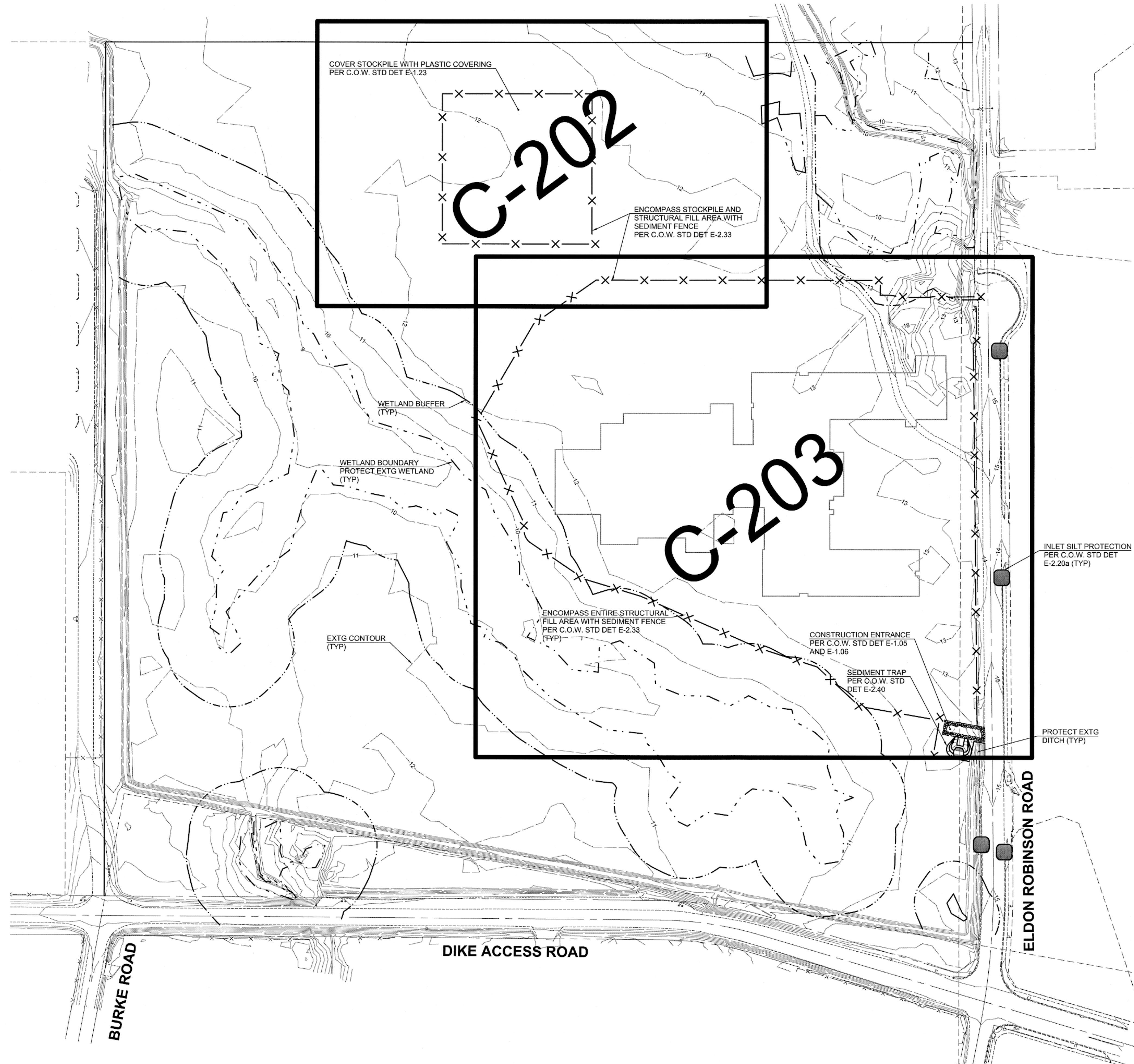
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EXISTING CONDITIONS PLAN

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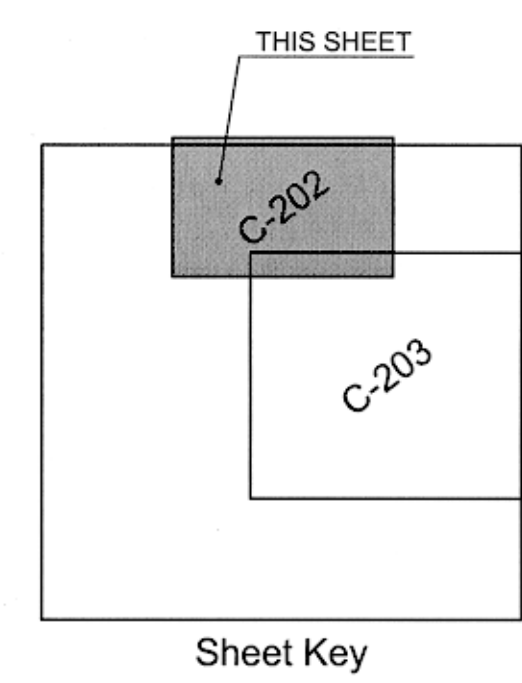
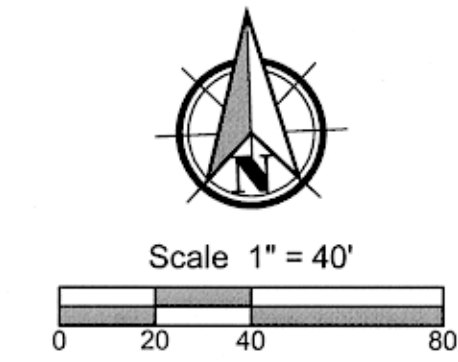
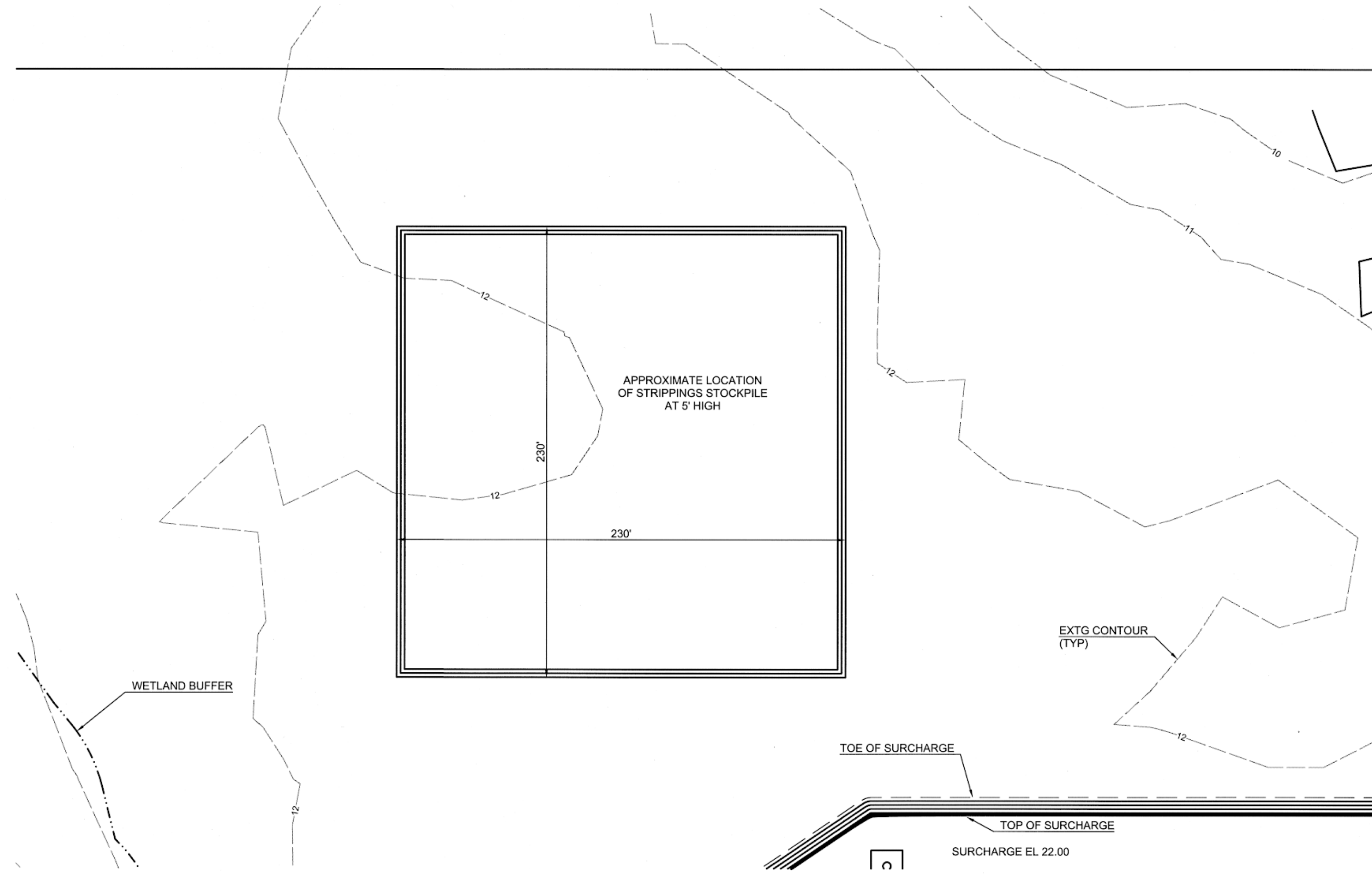
WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
 A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
GRADING KEY & EROSION CONTROL PLAN

SHEET ID
C-201
 SHEET 5 OF 10

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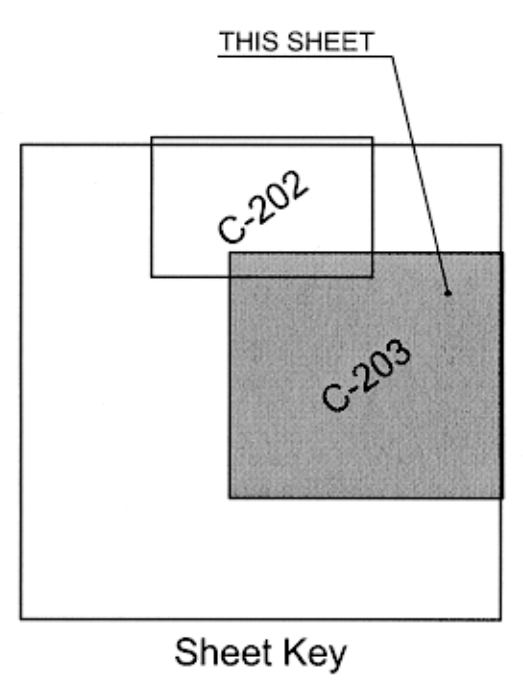
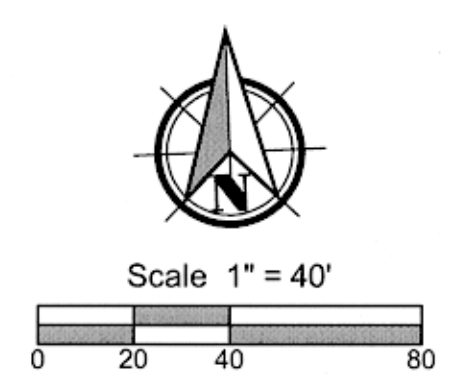
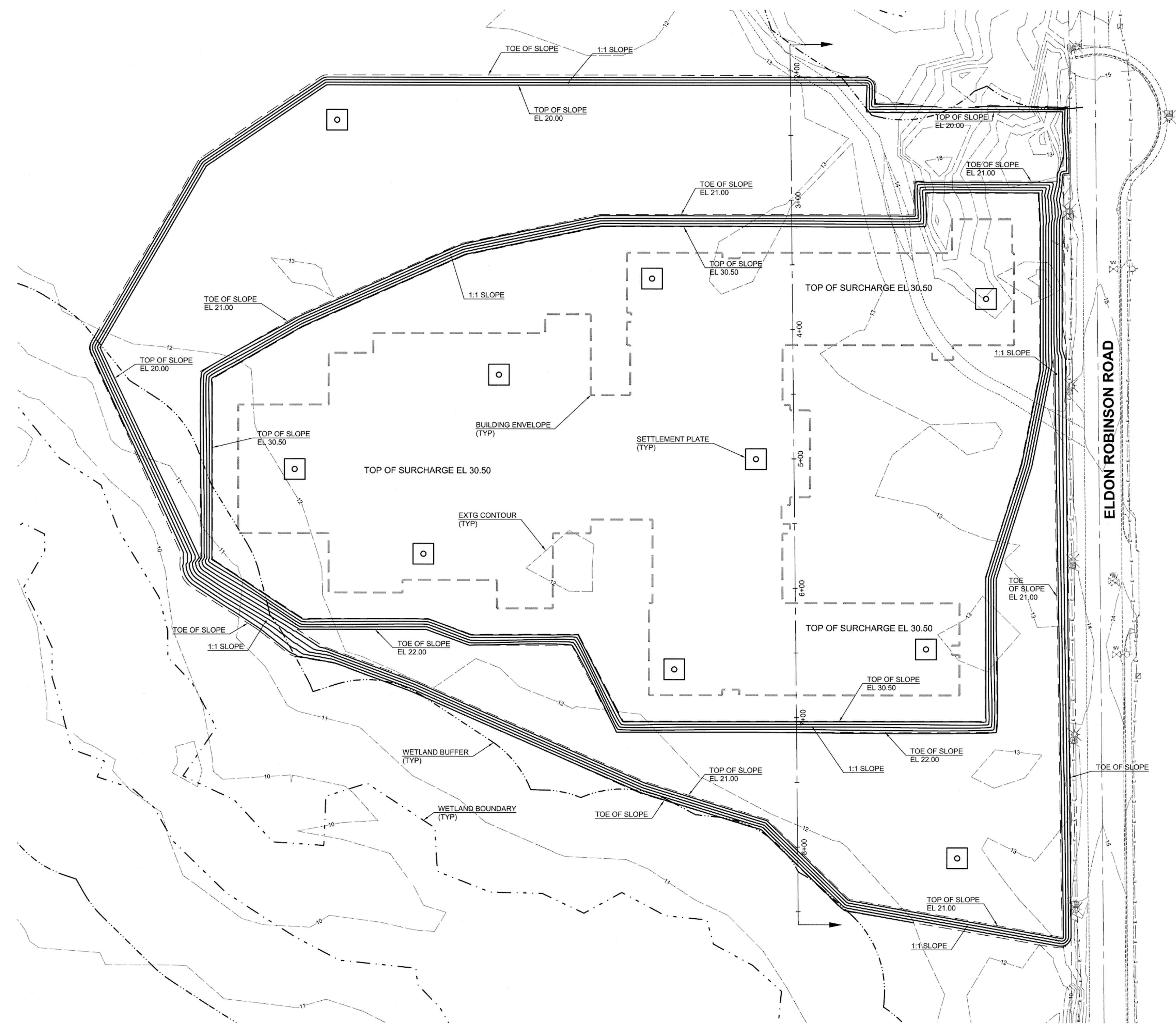


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WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
STRIPPINGS AND STOCKPILE PLAN

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Sheet Key

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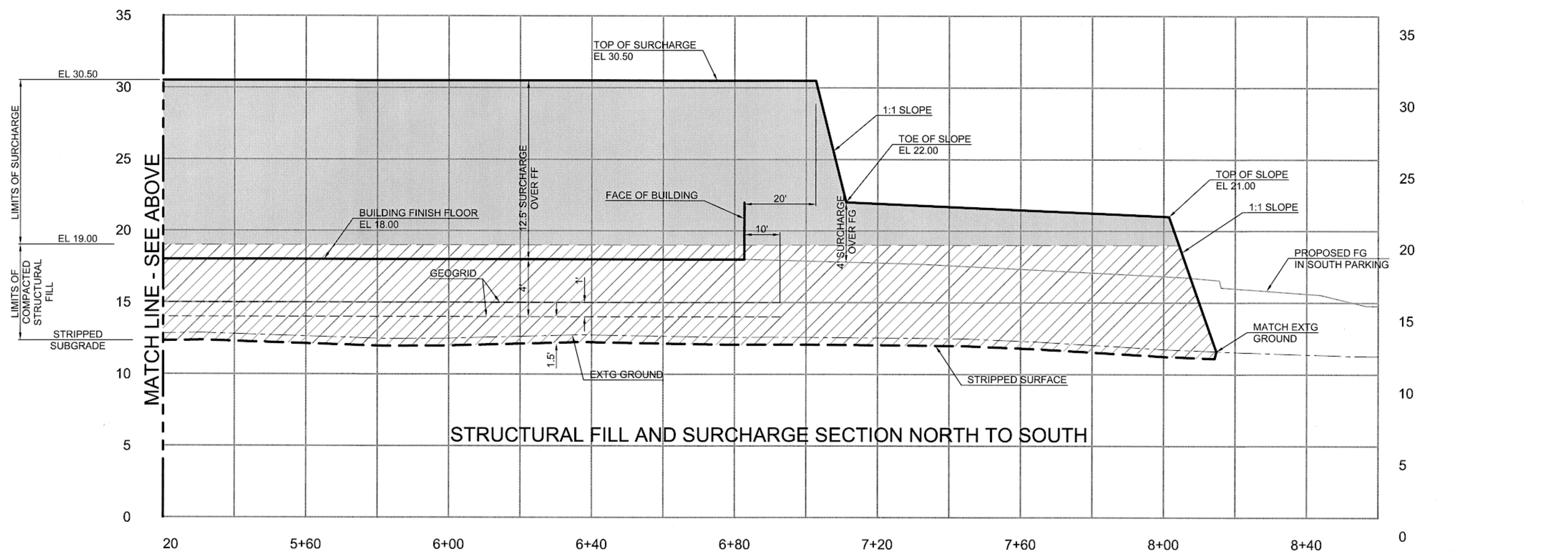
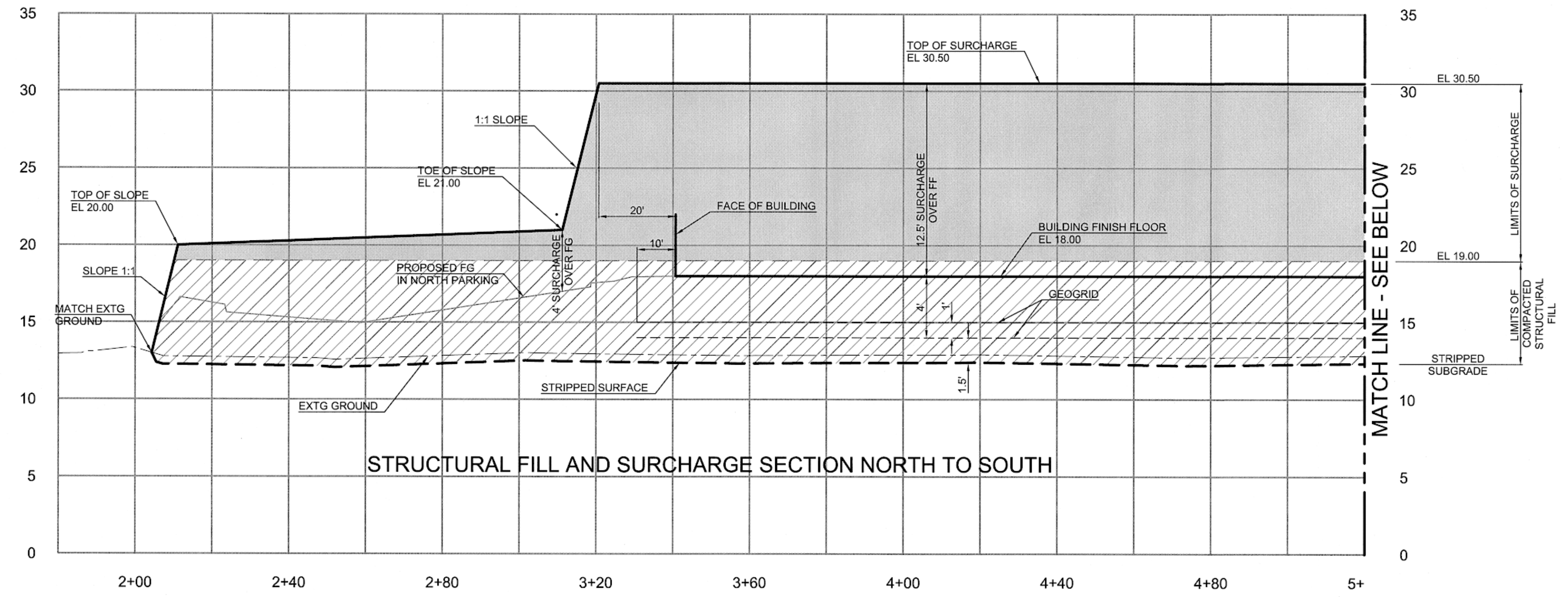


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DATE: MARCH 2013		HDJ JOB #: 3294_1

WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
GRADING SURCHARGE PLAN



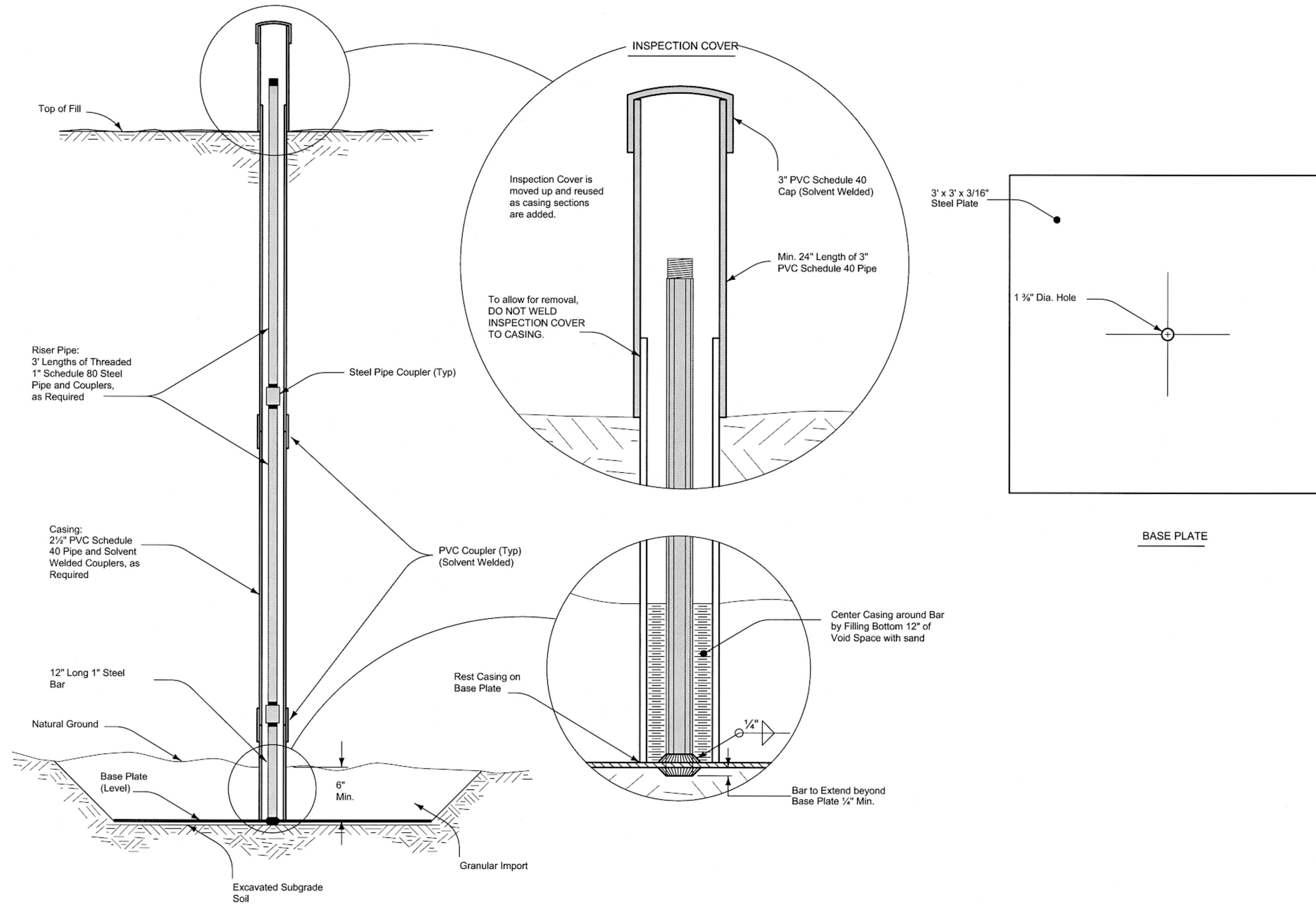
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WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
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GRADING SURCHARGE CROSS SECTION

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SETTLEMENT PLATE
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WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
MISCELLANEOUS DETAILS

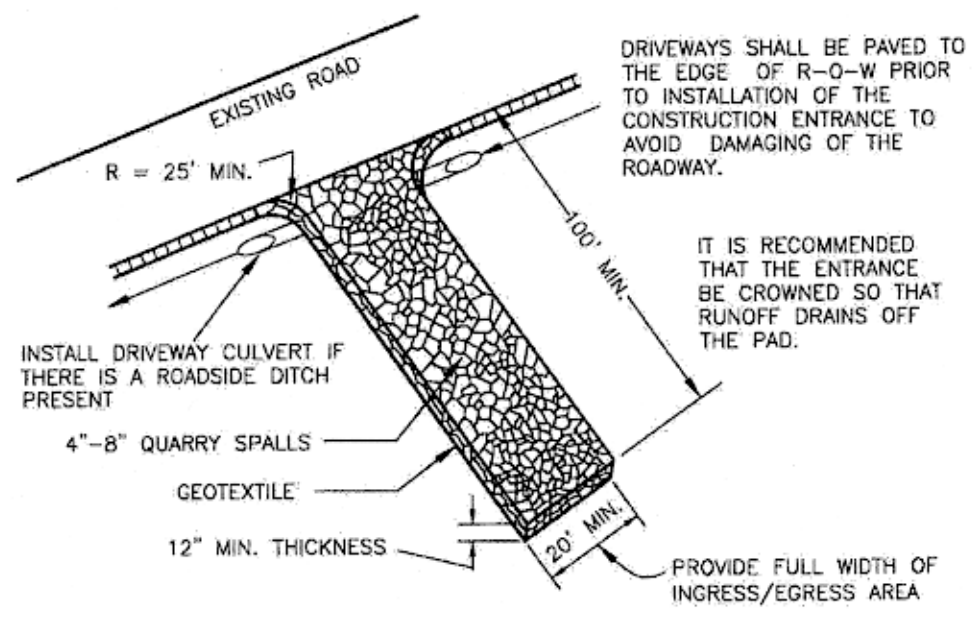
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GENERAL EROSION PREVENTION & SEDIMENT CONTROL NOTES

- 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.
- THE EROSION AND SEDIMENT CONTROL MEASURES SHALL BE SIZED, 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.
- 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 GRADING, ALL STORM DRAINAGE INLETS SHALL BE PROTECTED DOWN SLOPE FROM ANY EXISTING 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 BASIN FOLLOWING COMPLETION OF STORMWATER.
- THE CONTRACTOR SHALL NOT ALLOW SEDIMENT OR DEBRIS TO ENTER NEW OR EXISTING PIPES, CATCH BASINS OR INFILTRATION SYSTEMS.
- NEWLY CONSTRUCTED OR MODIFIED INLETS AND CATCH BASINS ARE TO BE PROTECTED IMMEDIATELY UPON INSTALLATION.
- TEMPORARY SEEDING AND MULCHING OF FILL SLOPES AND DIVERSION DIKES SHALL BE COMPLETED WITHIN ONE WEEK AFTER ROUGH GRADING.
- 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.
- MATERIAL STOCKPILES ARE TO BE PROTECTED BY THE FOLLOWING MEANS:
 - TEMPORARY: COVER PILES WITH TARP OR PLASTIC SHEETING WEIGHTED WITH CONCRETE BLOCKS, LUMBER OR TIRES.
 - PERMANENT: COVER PILES WITH TARP OR PLASTIC, OR REEDED, PROTECTIVE ARMS AROUND PILES ARE TO BE SURROUNDED WITH EROSION CONTROL FILTER FABRIC FENCES UNTIL SOIL SURFACE IS STABILIZED WITH RESEEDING.
- THE CONTRACTOR SHALL MAINTAIN ON SITE A WRITTEN DAILY LOG OF EROSION CONTROL BMP MAINTENANCE.
- IF THE CITY INSPECTOR OR ENGINEER HAS EVIDENCE OF POOR CONSTRUCTION PRACTICES OR IMPROPER EROSION PREVENTION BMPs, STATIONS 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
 - 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 PAD SHALL BE A MINIMUM OF 20 FEET. ALL TRUCKS LEAVING THE SITE SHALL CROSS ACROSS THE PAD.
 - 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.
 - PAVEMENT SWEEPING AND SHOVELING IS REQUIRED. WASHING THE PAVEMENT INTO THE STORM SYSTEM IS NOT PERMITTED.
 - IF CONSTRUCTION OCCURS SIMULTANEOUSLY ON ADJACENT LOTS AND THE LOTS HAVE THE SAME OWNER DURING CONSTRUCTION, ONE LOT ENTRANCE MAY BE USED FOR THE ADJACENT LOTS.
- INSTALL SEDIMENT FENCE IN ACCORDANCE WITH THIS DETAIL SHEET PRIOR TO BUILDING CONSTRUCTION AND/OR GRADING 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.
- 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 BARRIERS
 - MAINTAIN AND REMOVE ALL SEDIMENT CONTROLS AS SPECIFIED IN THE STANDARD DETAILS. THE CONTRACTOR SHALL REMOVE ALL ACCUMULATED SEDIMENT FROM THE CATCH BASINS, SPILLWAYS, UTILITY TRENCHES AND STORM PIPES PRIOR TO ACCEPTANCE BY THE CITY.
 - SEDIMENT CONTROL BARRIERS 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 REACTIVE ENVIRONMENTAL IMPACTS.
 - 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 ON SITE. DISTURBED SOIL AREAS RESULTING FROM REMOVAL SHALL BE PERMANENTLY STABILIZED.
 - IN AREAS SUBJECT TO SURFACE AND AIR MOVEMENT OF DUST ONE OR MORE OF THE FOLLOWING PREVENTATIVE MEASURES SHALL BE TAKEN FOR DUST CONTROL:
 - MINIMIZE THE PERIOD OF SOIL EXPOSURE THROUGH THE USE OF TEMPORARY GROUND COVER AND OTHER TEMPORARY STABILIZATION PRACTICES.
 - SPRINKLE THE SITE WITH WATER UNTIL THE SURFACE IS WET.
 - SPRAY EXPOSED SOIL AREAS WITH A DUST PALMANTINE. NOTE: USE OF PETROLEUM PRODUCTS OR POTENTIALLY HAZARDOUS MATERIALS ARE PROHIBITED.
- TEMPORARY SEEDING
 - 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. SEEDING 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 RESEED AS SOON AS SUCH AREAS ARE IDENTIFIED.
 - APPLY AN APPROVED TEMPORARY SEEDING MIX 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 PREVENTION & SEDIMENT CONTROL
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/2007*

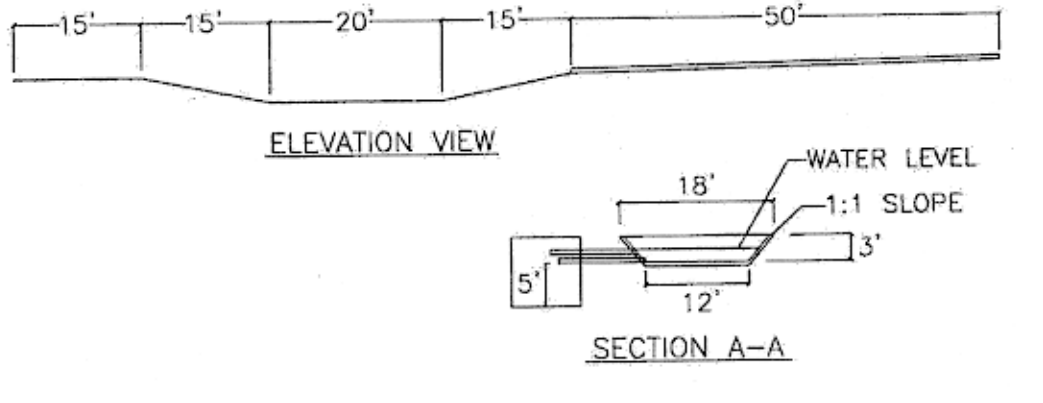
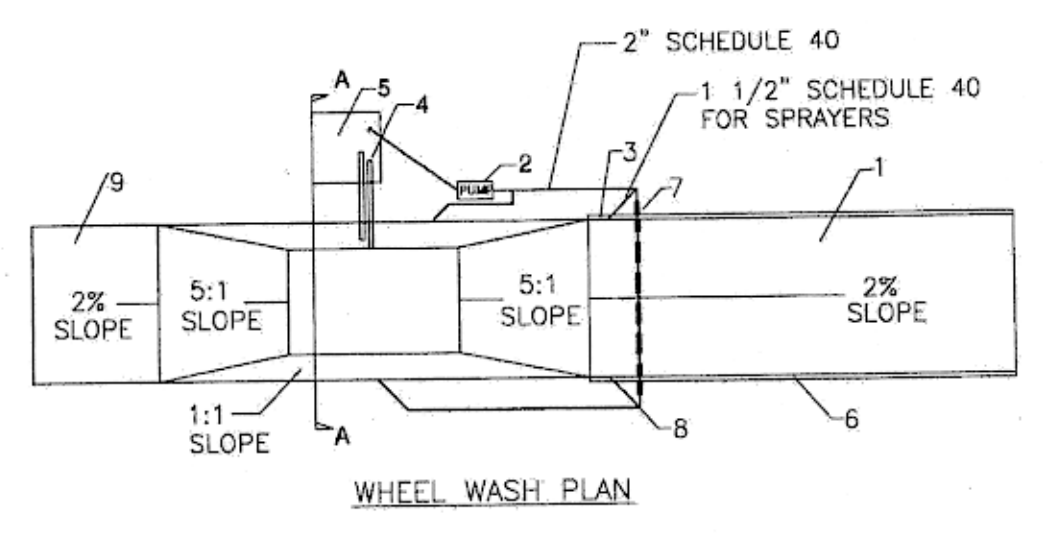
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- NOTES:
- IF THE ENTRANCE SITS ON A SLOPE, PLACE A FILTER FABRIC FENCE DOWN GRADIENT.
 - TOP DRESS THE PAD WITH CLEAN 3" MINUS ROCK WHEN THE CONSTRUCTION ENTRANCE BECOMES CLOGGED WITH SEDIMENTS.
 - ANY SEDIMENT CARRIED FROM THE SITE ONTO THE STREET SHALL BE CLEANED UP IMMEDIATELY.
 - 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 TRAP.

STABILIZED CONSTRUCTION ENTRANCE
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/2007*

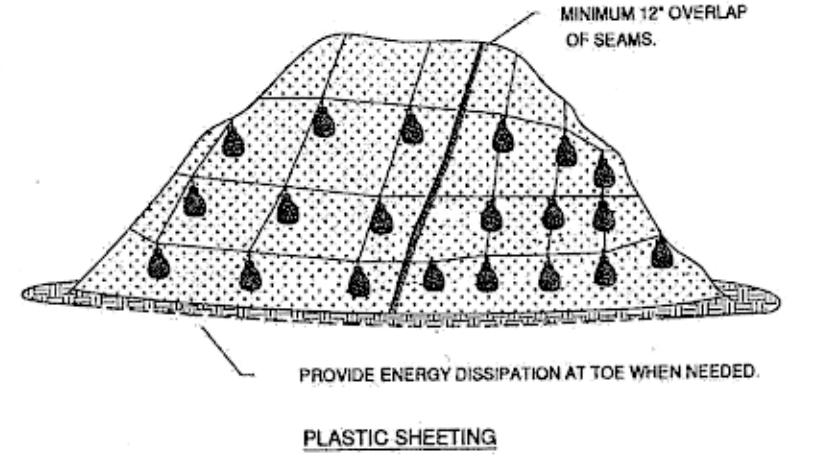
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- LEGEND:
- ASPHALT CONSTRUCTION ENTRANCE 6 IN. ASPHALT TREATED BASE (ATB).
 - 3 IN. TRASH PUMP WITH FLOATS ON THE SUCTION HOSE.
 - MIDPOINT SPRAY NOZZLES, IF NEEDED.
 - 6 IN. SEWER PIPE WITH BUTTERFLY VALVES. BOTTOM ONE IS A DRAIN. LOCATE TOP PIPE'S INVERT 1 FT. ABOVE BOTTOM OF WHEEL WASH.
 - 8 FT. X 8 FT. SUMP WITH 5 FT. OF CATCH. BUILD SO CAN BE CLEANED WITH TRACKHOE.
 - 6-IN. ASPHALT CURB ON THE LOW ROAD SIDE TO DIRECT WATER BACK TO POND.
 - 6-IN. SLEEVE UNDER ROAD.
 - BALL VALVES.
 - 15 FT. ATB APRON TO PROTECT GROUND FROM SPLASHING WATER.

WHEEL WASH
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/2007*

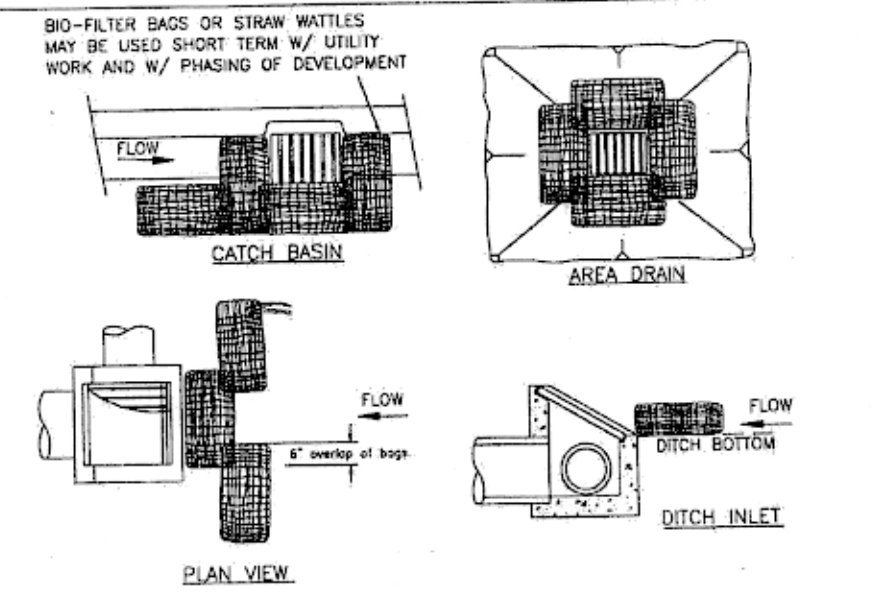
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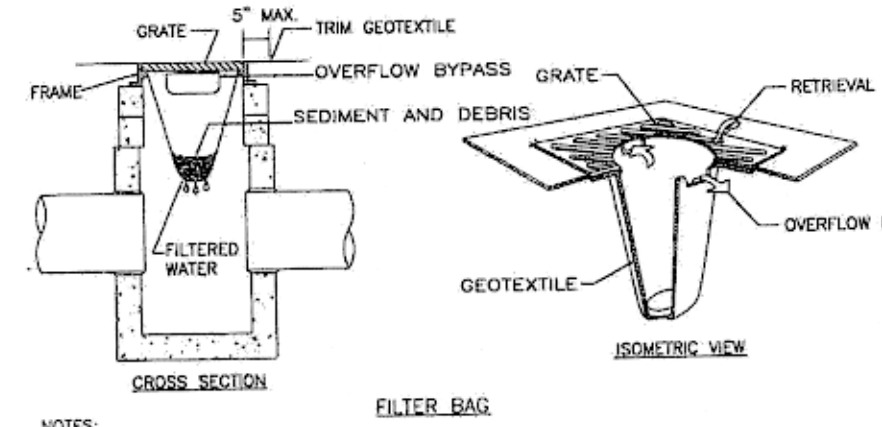
- NOTES:
- PLASTIC SHEETING IS USED TO PROVIDE IMMEDIATE PROTECTION TO SLOPES AND STOCKPILES.
 - DO NOT USE PLASTIC COVERING UPSLOPE OF AREAS SUCH AS STEEP AND/OR UNSTABLE SLOPES THAT MIGHT BE ADVERSELY AFFECTED BY CONCENTRATED RUNOFF.
 - WHEN POSSIBLE, INSTALL AN INTERCEPTOR DIKE AT THE TOP OF THE PLASTIC TO DIVERT FLOWS AWAY FROM THE PLASTIC.
 - TOE-IN THE TOP OF THE SHEETING IN A 6"x6" TRENCH BACKFILLED WITH COMPACTED NATIVE MATERIAL.
 - INSTALL A GRAVEL BERM, RIPRAP, OR OTHER SUITABLE PROTECTION AT THE TOP OF THE SLOPE IN ORDER TO DISSIPATE RUNOFF VELOCITY.
 - ANCHOR THE PLASTIC USING SANDBAGS OR OTHER SUITABLE TETHERED ANCHOR SYSTEM SPACED ON A 10' GRID SPACING IN ALL DIRECTIONS.
 - OVERLAP SEAMS 1-2", TAPE, ROLL AND STAKE THE SEAMS AND THEN WEIGH DOWN THE ENTIRE LENGTH.
 - PROVIDE ENERGY DISSIPATION AT TOE WHEN NEEDED.
 - REPLACE TORN SHEETS AND REPAIR OPEN SEAMS. COMPLETELY REMOVE AND REPLACE PLASTIC WHEN IT BEGINS TO DETERIORATE.

PLASTIC COVERING
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/07*

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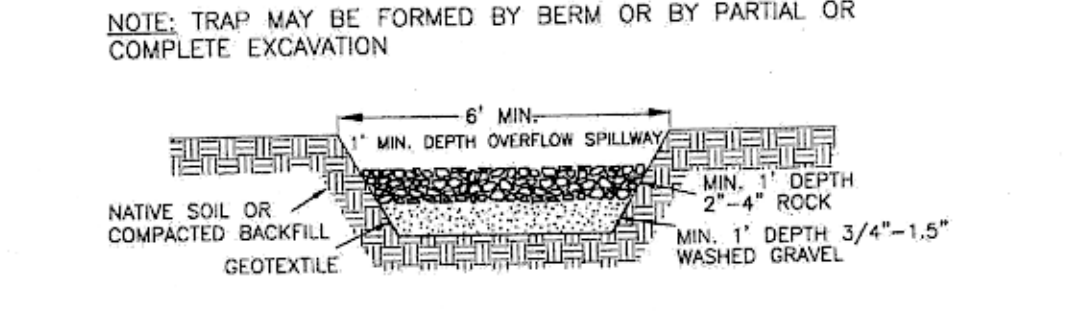
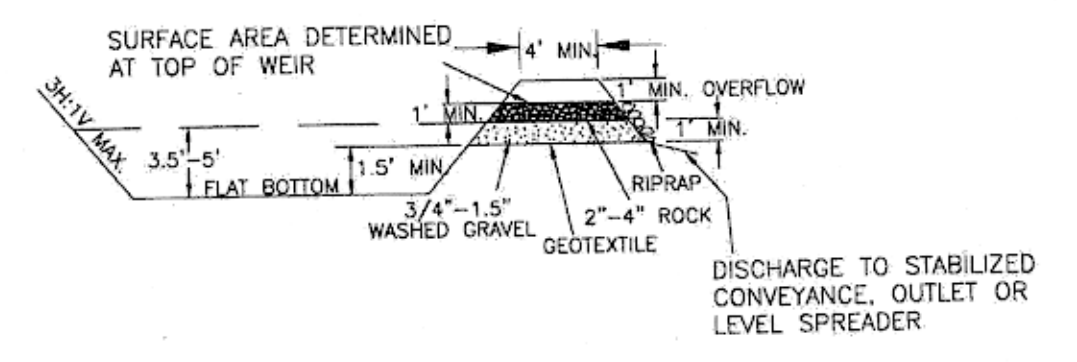
- NOTES:
- ADDITIONAL MEASURES MUST BE CONSIDERED DEPENDING ON SOIL TYPE.
 - BIO-FILTER BAGS SHOULD BE STAKED WHERE APPLICABLE USING (2) 1"x2" WOODEN STAKES OR APPROVED EQUAL PER BAG.
 - STRAW WATTLE MUST BE STABILIZED BY ATTACHING WIRE CLIPS TO THE CATCH BASIN PER MANUFACTURER'S SPECIFICATIONS.
 - INLET PROTECTION MUST BE REGULARLY INSPECTED BY THE EROSION CONTROL INDIVIDUAL TO INSURE PROPER PLACEMENT/FUNCTION AND MAINTENANCE.



- NOTES:
- SIZE THE BELOW GRATE INLET DEVICE (BOD) FOR THE STORM WATER STRUCTURE IT WILL SERVE.
 - THE REMOVAL SYSTEM MUST ALLOW REMOVAL OF THE BOD WITHOUT SPILLING THE COLLECTED MATERIAL.
 - THE BOD SHALL HAVE A BUILT-IN HIGH-FLOW RELIEF SYSTEM (OVERFLOW BYPASS).
 - THE CONTRACTOR SHALL INSPECT THE BAG AFTER EACH STORM EVENT AND AT REGULAR INTERVALS.
 - THE FILTER BAG SHALL BE CLEANED OR REPLACED WHEN THE BAG BECOMES HALF FULL.

INLET PROTECTION DETAILS
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/2007*

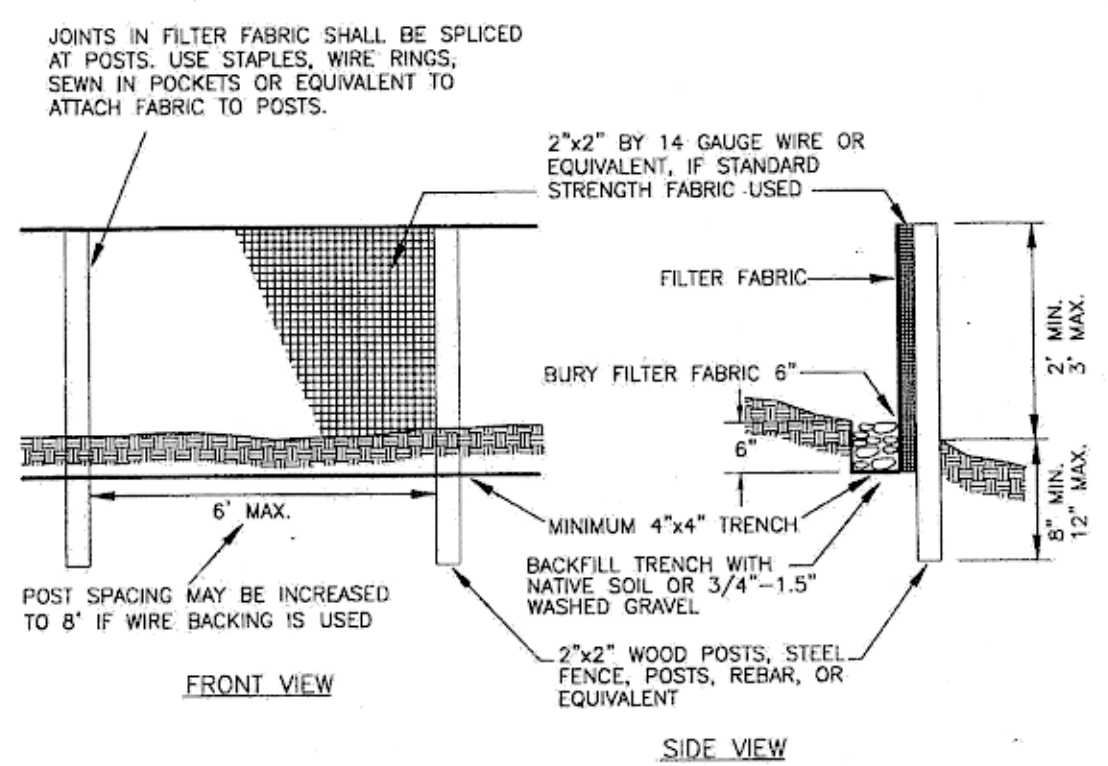
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- NOTES:
- SEDIMENT TRAP MAY BE CONSTRUCTED BY EXCAVATION OR BY BUILDING A BERM.
 - OUTFLOW CHANNEL SHALL BE CONSTRUCTED BY EXCAVATION.
 - SEDIMENT TRAPS SHALL BE LIMITED TO SITES OF LESS THAN 1 ACRE. FOR ANY SITE GREATER THAN 1 ACRE, SEE SEDIMENT BASIN.
 - SEDIMENT SHALL BE REMOVED BEFORE 1 FOOT ACCUMULATES.

SEDIMENT TRAP
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
APPROVED BY: *EH*
DATE: *12/27/2007*

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- NOTE: FILTER FABRIC FENCES SHALL BE INSTALLED ALONG CONTOUR WHENEVER POSSIBLE.
- MAINTENANCE STANDARDS:
- 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.
 - IF CONCENTRATED FLOWS ARE EVIDENT UPHILL OF THE FENCE, THEY MUST BE INTERCEPTED AND CONVEYED TO A SEDIMENT POND.
 - 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.
 - 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.
 - IF THE FILTER FABRIC (GEOTEXTILE) HAS DETERIORATED DUE TO ULTRAVIOLET BREAKDOWN, IT SHALL BE REPLACED.

SILT FENCE
CITY OF WOODLAND
DEPARTMENT OF PUBLIC WORKS
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SCALE: N/A
VERTICAL: N/A
DATE: MARCH 2013
HJD JOB #: 3294_1

WOODLAND HIGH SCHOOL - PHASE 1 - SITE PREP
A SITE LOCATED IN THE CITY OF WOODLAND, WASHINGTON
STANDARD CITY OF WOODLAND DETAILS

SHEET ID
C-302
SHEET 10 OF 10