

Fairview Street Storm Drainage Improvements

Suncrest Drive to Maple Avenue

City of Snohomish, Washington

City Council

Mayor:

Karen Guzak

Mayor Pro Tem:

Lynn Schillaty

Board Members:

Derrick Burke
Tom Hamilton
Paul Kaftanski
Dean Randall
Michael Rohrscheib

City Manager:

Larry Bauman

Public Works Director: Steve Schuller, P.E.

Sheet Title

Cover Sheet
Legend and Notes
STA 1+00 to 4+07
Detail Sheet

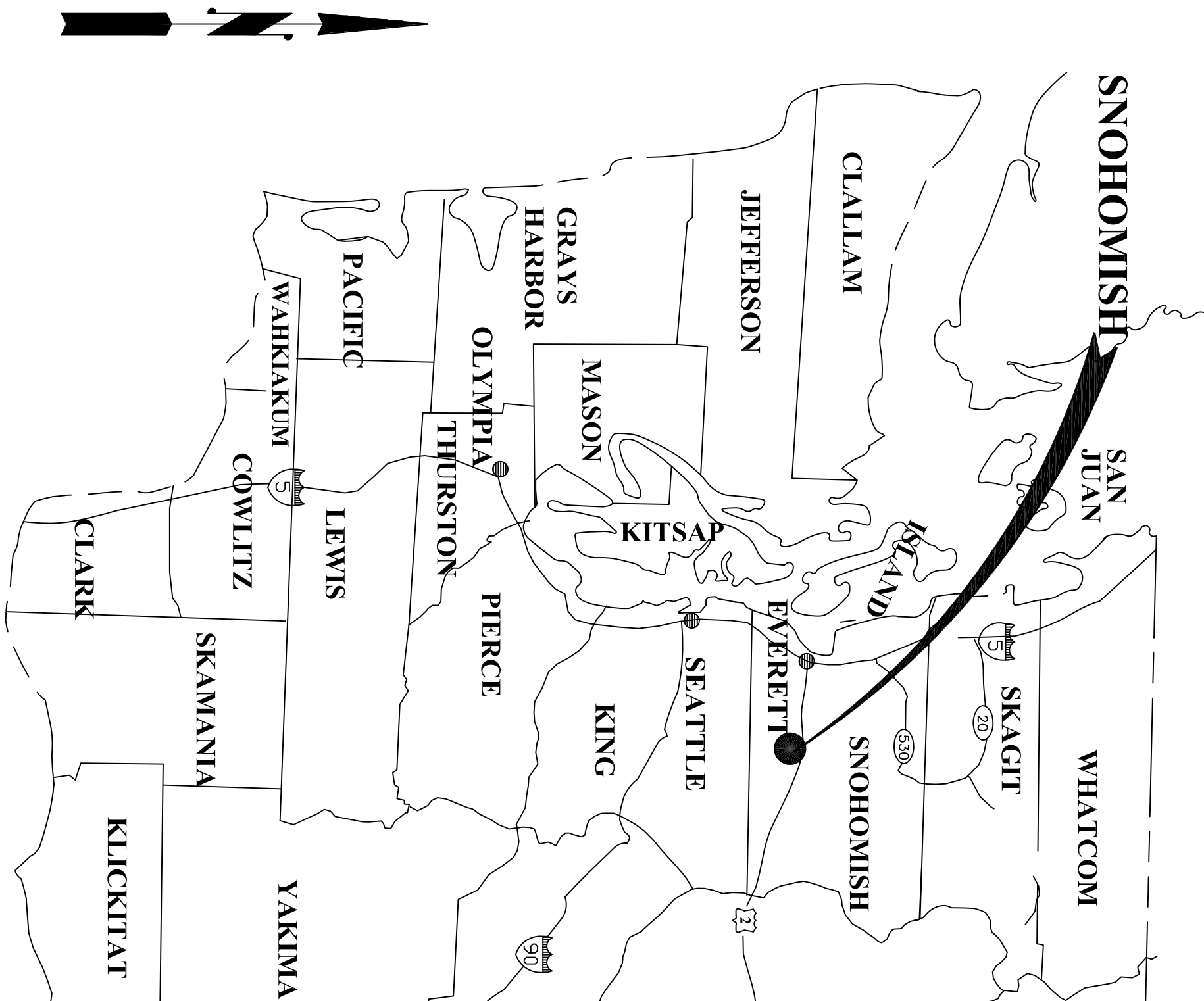
Sheet Index

Drawing No.

CV
LN
C1
C2

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Vicinity Map
NTS

APPROVED FOR
CONSTRUCTION

BY: 
NATHAN M. SMITH, P.E.,
CITY ENGINEER

DATE: 05-14-2015

Drawing No.

CV

Sheet No.

1

of Total

4

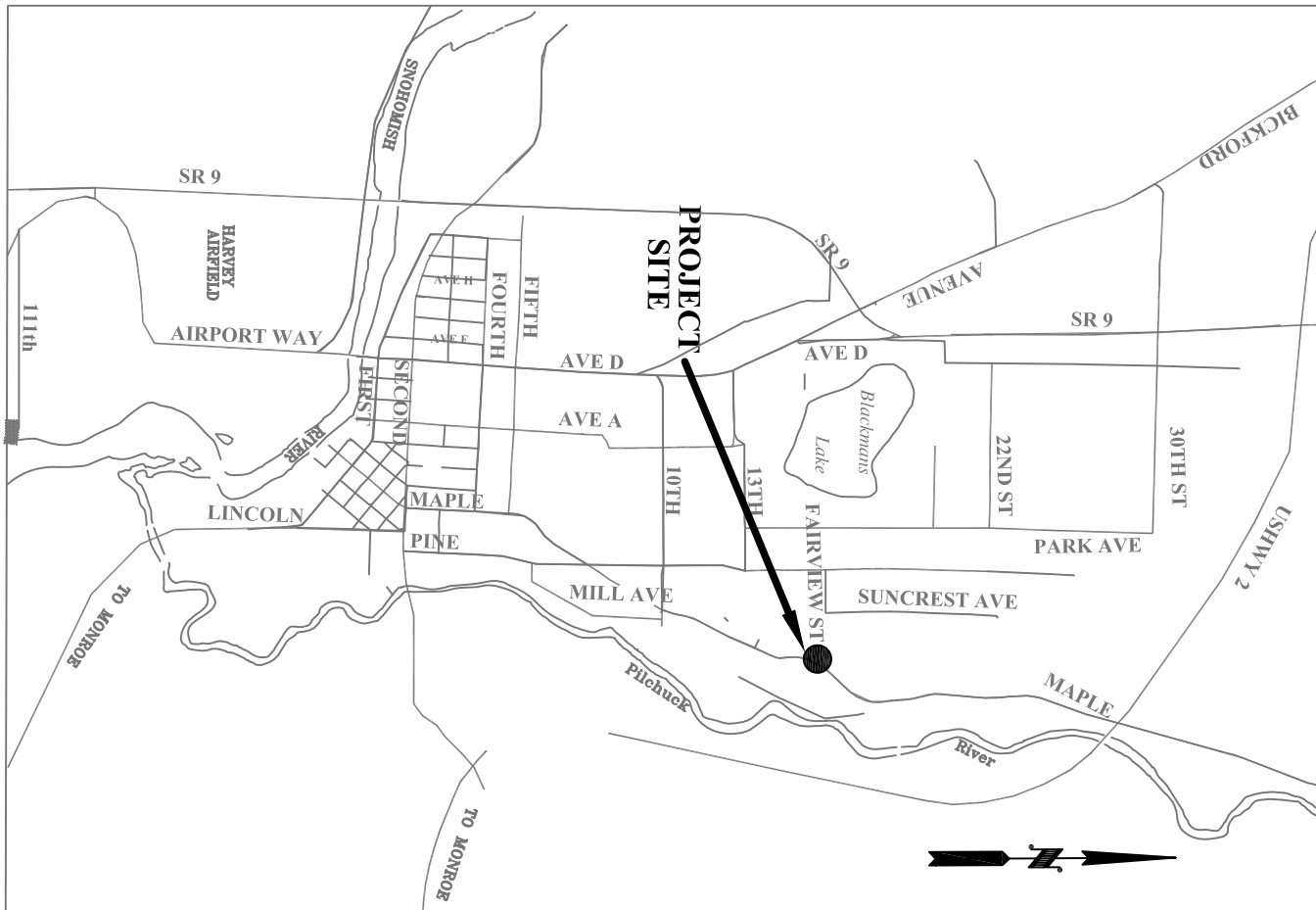
GENERAL PROJECT NOTES

- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE LATEST ENGINEERING STANDARDS AND SPECIFICATIONS OF THE CITY OF SNOHOMISH PUBLIC WORKS DEPARTMENT AND THE 2014 EDITION OF THE WSDOT/APWA STANDARDS AND SPECIFICATIONS AS APPROVED AND MODIFIED BY THE CITY OF SNOHOMISH. A SET OF APPROVED CONTRACT PLANS AND SPECIFICATIONS SHALL BE KEPT ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED TO BE SUBMITTED AT THE PRE-CONSTRUCTION MEETING. ANY MODIFICATIONS TO THE APPROVED TRAFFIC CONTROL PLAN SHALL BE RESUBMITTED AND APPROVED PRIOR TO IMPLEMENTATION.
- THE CONTRACTOR SHALL USE A VACUUM STREET SWEEPER TO REMOVE DUST AND DEBRIS FROM PAVEMENT AREAS AS DIRECTED BY THE ENGINEER OR DESIGNEE. FLUSHING OF STREETS SHALL NOT BE PERMITTED.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL INSTALL ALL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BUT NOT LIMITED TO SILT FENCE AND STORM DRAIN INLET PROTECTION. THE CONTRACTOR SHALL INSPECT THE CONDITION OF ALL EROSION AND SEDIMENT CONTROL MEASURES ON A DAILY BASIS AND MAINTAIN OR REPLACE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).
- TEMPORARY RESTORATION OF TRENCHES FOR OVERNIGHT USE SHALL BE ACCOMPLISHED BY USING COLD MIX ASPHALT. STEEL PLATES MAY BE USED OVERNIGHT TO COVER THE LAST SECTION OF TRENCH. STEEL PLATES MUST BE PINNED AROUND AND ASPHALT RAMPS/WIDGES MUST BE PLACED AROUND THE PLATES. STEEL PLATES SHALL NOT BE USED ON STEEP GRADES OR WHERE STEEL PLATES PRESENT A ROADWAY HAZARD.

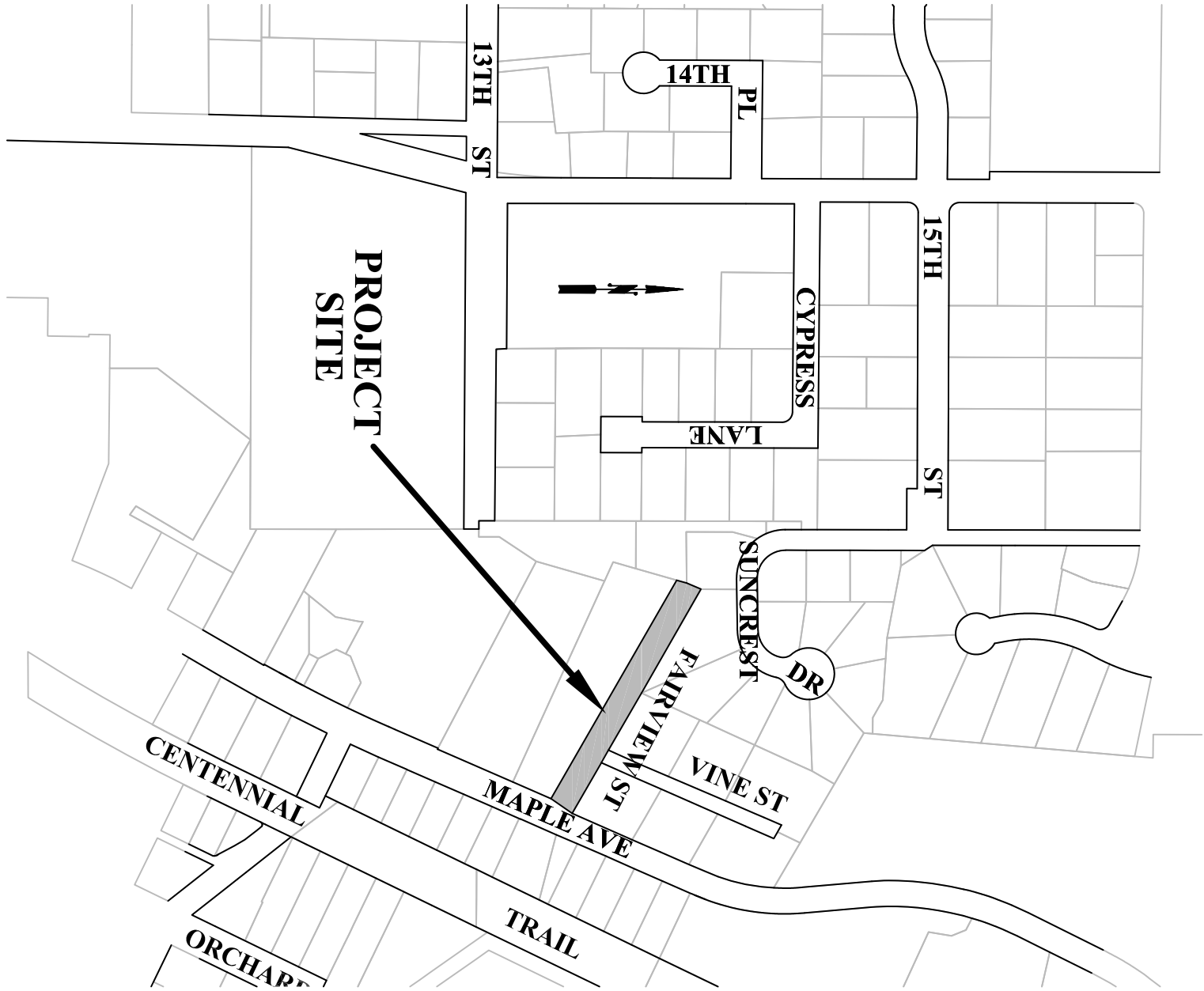
BEST MANAGEMENT PRACTICES (BMPs)

BEST MANAGEMENT PRACTICES (BMPs) TO PREVENT EROSION SHALL INCLUDE BUT NOT BE LIMITED TO THE FOLLOWING:

- PREPARE A STORMWATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH THE 2005 ECOLOGY STORMWATER MANUAL FOR WESTERN WASHINGTON AND THE CITY OF SNOHOMISH NPDES PHASE II STORMWATER PERMIT.
- ALL EROSION CONTROL PROCEDURES AT ALL THE CONTRACTOR'S WORK AND STAGING AREAS SHALL CONFORM TO PROJECT PERMITS, NPDES PERMIT, SWPPP, AND TEMPORARY EROSION AND SEDIMENTATION CONTROL (TESC) DETAILS.
- THE CONTRACTOR SHALL PREVENT THE SILTING OF STREAMS DURING CONSTRUCTION AND CONTROL WATER POLLUTION DURING THE LIFE OF THE CONTRACT THROUGH THE USE OF SEDIMENT TRAPS, STRAW BALES, FILTER FABRIC FENCES, PLASTIC FENCES, MULCHING, COVERING STORED PILES OF SOIL AND BACKFILL, AND OTHER TESC DEVICES OR METHODS.
- THE CONTRACTOR SHALL RETAIN AND PROTECT ALL NATURAL VEGETATION, PREVENT THE DISCHARGE OF POLLUTANTS INTO CRITICAL AREAS DURING EXCAVATION AND BACKFILL OR ANY OTHER CONSTRUCTION ACTIVITY.
- DETERMINE THE LOCATIONS OF AND INSTALL TESC SILT FENCES PER DETAIL. THIS SHEET AND CONSTRUCTION LIMIT FENCING PRIOR TO ANY SITE WORK.
- HAVE BACK-UP EQUIPMENT READILY AVAILABLE IN CASE EMERGENCY EROSION/POLLUTION SITUATIONS ARISE. THIS EQUIPMENT INCLUDES SPILL KITS, PUMPS, HOSES, AND BACKHOES. IN ADDITION, HAVE A STOCKPILE OF EXTRA ESC MATERIALS SUCH AS STRAW BALES, AND FILTER FENCE FOR EMERGENCY SITUATIONS.



PROJECT LOCATION MAP



BASIS OF BEARING:
WASHINGTON STATE PLANE COORDINATE SYSTEM, NORTH ZONE NAD 83.
DATUM
NGVD 29 (CONVERSION TO NAVD 88 = 3.65')
PROJECT BENCHMARK
CITY OF SNOHOMISH SURVEY CONTROL DESIGNATION COS-16.
EL.=143.10'

SITE BENCHMARK
SET NAIL W/WASHER IN CONCRETE DRIVEWAY ALONG THE EASTERLY SIDE OF MAPLE AVENUE. ±5.9' EASTERLY FROM EDGE OF ASPHALT, ±1.2' NORTHERLY FROM SOUTHERLY EDGE OF CONCRETE DRIVEWAY.
EL.=105.60'

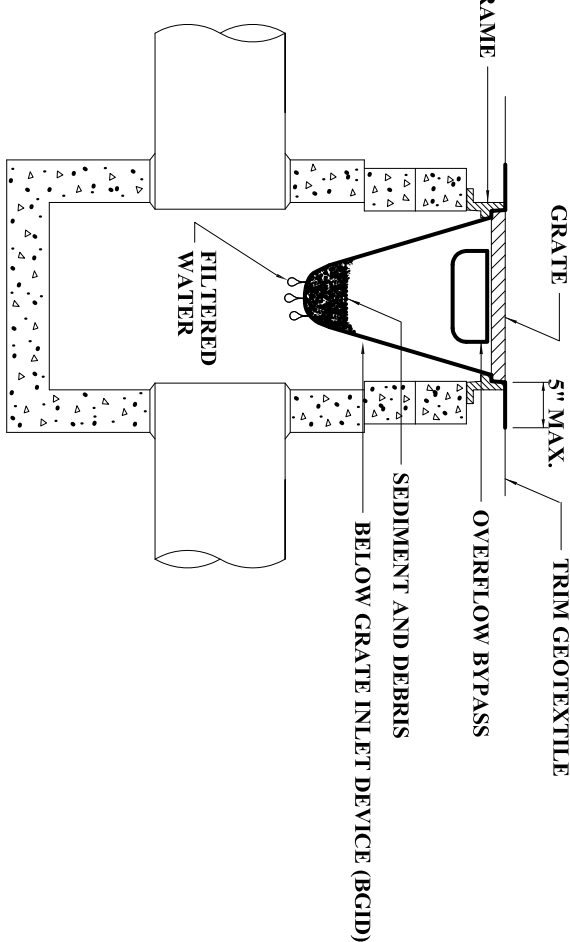
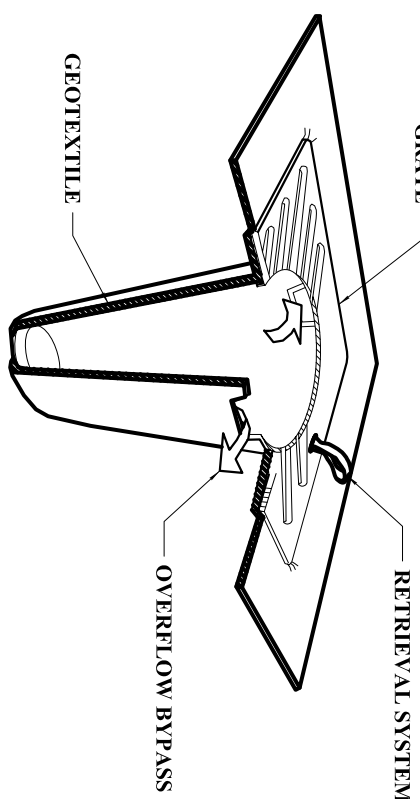
NOTES
1. REPRESENTATION OF BOUNDARY LINES ARE GRAPHICALLY SHOWN FOR USE IN INTERPRETING THE TOPOGRAPHIC DATA. THIS REPRESENTATION IS BASED UPON INFORMATION PROVIDED BY THE CLIENT OR AS AVAILABLE FROM TAX ASSESSORS RECORDS AND SHOULD NOT BE RELIED UPON AS A BOUNDARY SURVEY.

2. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS OF A SURVEY MADE IN DECEMBER 2014 AND CAN ONLY BE CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT THAT TIME.

3. UTILITY LOCATIONS SHOWN HEREON ARE BASED UPON ASBUILT FIELD LOCATION OF EXISTING STRUCTURES.

4. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO CONSTRUCTION.

- PERFORM MAINTENANCE IN ACCORDANCE WITH STANDARD SPECIFICATION 8-01.3(15).
- SIZE THE BELOW GRATE INLET DEVICE (BGID) FOR THE STORM WATER STRUCTURE IT WILL SERVICE.
- THE BIDD SHALL HAVE A BUILT-IN-HIGH-LOW RELIEF SYSTEM (OVERFLOW BYPASS).
- THE RETRIEVAL SYSTEM MUST ALLOW REMOVAL OF THE BID WITHOUT SPILLING THE COLLECTED MATERIAL.



STORM DRAIN INLET PROTECTION
REFERENCE WSDOT STANDARD PLAN 1-40-20-00

LEGEND

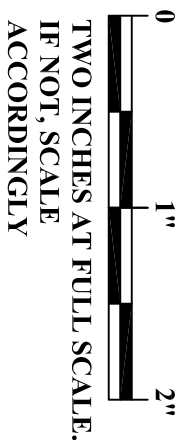
- FND MON IN CASE, AS NOTED
- FND SURFACE MON, AS NOTED
- FND SURVEY MARKER, AS NOTED
- STORM DRAIN MANHOLE
- CATCH BASIN
- CULVERT
- SANITARY SEWER MANHOLE
- SANITARY SEWER CLEANOUT
- FIRE HYDRANT
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE
- POWER POLE
- BOLLARD
- MAILBOX
- CONFER TREE
- DECIDUOUS TREE
- ROCKS/ROCKERY
- WOOD FENCE
- CHAIN LINK FENCE
- WIRE FENCE
- GLAND RAIL
- STORM DRAIN LINE
- SANITARY SEWER LINE
- OVERHEAD WIRES
- WATER PAINT MARKS

PROJECT CONTACTS	
Max Selin	Sr. Utilities Engineer
Tim Cross	Public Works Inspector
Derek Debarati	Sewer and Storm Lead
Joe Palmer	Water Distribution Lead
Ann Ray	Cross Connection Specialist
Fire District No. 4	EMS and Fire Services
Snohomish Police	Police Department

CALL OUT SYMBOL



BURIED UTILITIES IN AREA
CALL BEFORE YOU DIG
1-800-424-5555
EXISTING UTILITIES SHOWN ARE FROM THE BEST AVAILABLE INFORMATION AND NO GUARANTEE IS MADE AS TO THE EXACT SIZE, TYPE, LOCATION OR DEPTH.



No.	Date	Description	By	App.
1	05/20/15	Planset	MMS	YMI

City of Snohomish

116 Union Avenue
Snohomish, WA 98290
360-568-3115

Plan View Scale = 1:20 Profile Scale H=1:40 V=1:4 Unless Otherwise Noted	
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Drawn By:	MMS	Date:	May 2015
Designed By:	MMS	Date:	May 2015
Checked By:	MMS	Date:	May 2015
Approved By:	YMI	Date:	May 2015

City of Snohomish

Fairview Street
Stormwater Improvement Project
Legend and Notes

Drawing No.
LN

Sheet No.
2 of 4

A Portion of the SW 1/4 of the NW 1/4 of Section 7,
Township 28 North, Range 6 East, W.M.

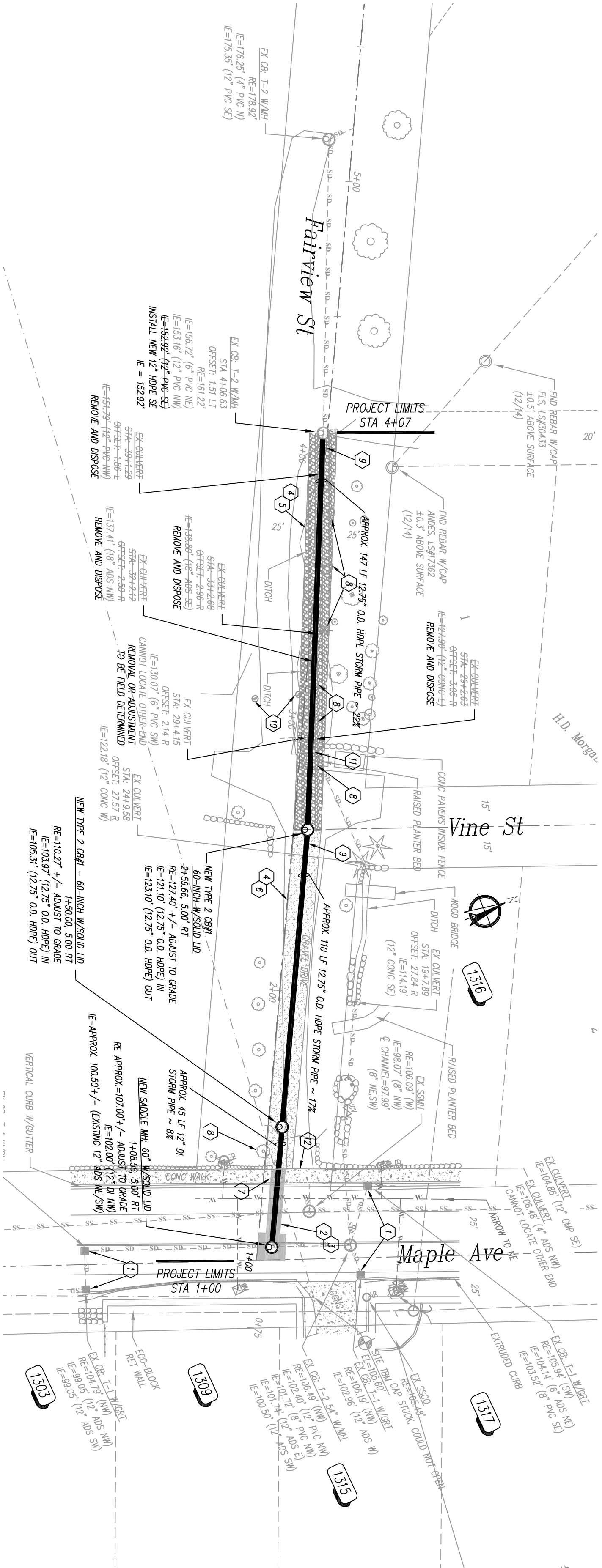
GENERAL NOTES

- ALL WORK IN THE RIGHT-OF-WAY SHALL BE IN ACCORDANCE WITH THE CITY OF SNOHOMISH ENGINEERING STANDARDS AND SPECIFICATIONS.
- EXISTING UTILITIES SHOWN ARE APPROXIMATE ONLY AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CORRECT LOCATIONS PRIOR TO CONSTRUCTION. THIS MAY BE DONE BY CALLING 1-800-424-5555 FOR THE UTILITIES PARTICIPATING IN ONE-CALL AND BY DIRECT CONTACT OF ALL OTHER AFFECTED UTILITY COMPANIES.
- CONTRACTOR SHALL COORDINATE EXISTING UTILITY RELOCATIONS WITH ALL OTHER UTILITIES INCLUDING TEMPORARY SERVICES AND REMOVAL AND RELOCATION OF ALL EXISTING UTILITIES.
- CONTRACTOR SHALL INSTALL AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN CONFORMANCE WITH THE 2005 ECOLOGY STORMWATER MANUAL FOR WESTERN WASHINGTON, THE CITY OF SNOHOMISH ENGINEERING STANDARDS, INDUSTRY STANDARD BEST MANAGEMENT PRACTICES AND REQUIREMENTS INCLUDED IN THE PROJECT PLANS AND SPECIFICATIONS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR REPAIR AND REPLACEMENT OF ANY UTILITIES OR INFRASTRUCTURE CONSTRUCTION.
- ALL CONSTRUCTION AND MATERIALS SHALL BE IN COMPLIANCE WITH THE CITY OF SNOHOMISH ENGINEERING STANDARDS AND WSDOT STANDARD SPECIFICATIONS CURRENT EDITION.
- NEW STRUCTURE LOCATIONS MAY BE ADJUSTED IN THE FIELD BY THE ENGINEER.
- CONTRACTOR IS SOLELY RESPONSIBLE FOR REPAIR OF ANY CONCRETE CURB AND GUTTER, SIDEWALK OR PRIVATE PROPERTY DAMAGED DURING CONSTRUCTION. DAMAGED CONCRETE CURB, GUTTER AND SIDEWALK SHALL BE REPLACED IN-KIND PRIOR TO PAVING.
- ALL DEPTHS SHOWN ARE COMPACTED DEPTHS.
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE PROTECTION OF ALL MONUMENTS INCLUDING BUT NOT LIMITED TO RESETTING MONUMENTS DISTURBED DURING CONSTRUCTION.

CONSTRUCTION NOTES

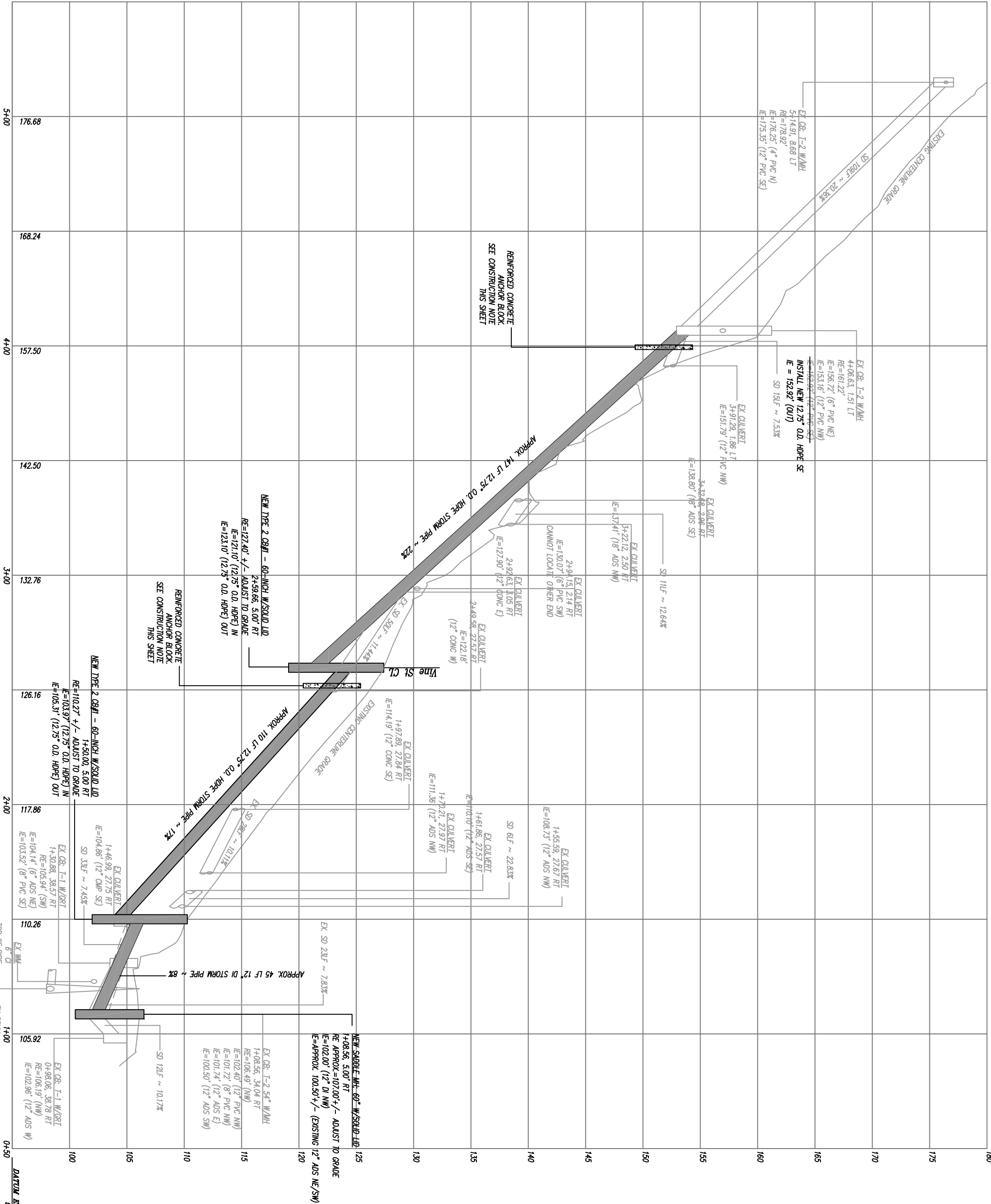
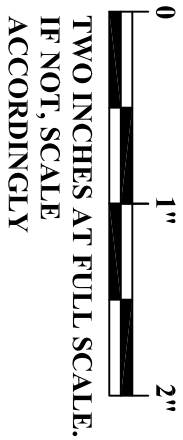
- INSTALL STORM DRAIN INLET PROTECTION PER WSDOT STANDARD PLAN 1-40.20-00. SEE SHEET 2. REMOVE/REINSTALL INSERT AS NEEDED TO COMPLETE WORK.
- ASPHALT SAW CUT.
- INSTALL ASPHALT PATCH. PATCH TO MATCH EXISTING ASPHALT DEPTH.
- RESTORE FINAL GRADE TO MATCH EXISTING.
- RESTORE GRAVEL TRENCH SURFACE AREA WITH 2-1/4" MINUS CRUSHED ROCK TO MATCH EXISTING GRADE. DEPTH WILL VARY. LIMITS SHOWN ARE APPROXIMATE.
- RESTORE GRAVEL TRENCH AND ACCESS ROADWAY WITH 1-1/4" MINUS CRUSHED ROCK TO MATCH EXISTING GRADE. DEPTH WILL VARY. LIMITS SHOWN ARE APPROXIMATE.
- REMOVE AND REPLACE EXISTING CONCRETE CURB, GUTTER AND SIDEWALK AS NEEDED PER CITY OF SNOHOMISH ENGINEERING STANDARDS AND STANDARD DETAIL #305A. SEE SHEET PROJECT SPECIFICATIONS APPENDIX.
- REMOVE AND DISPOSE OF EXISTING TREES, LANDSCAPE ROCK, LARGE ROCK, QUARRY SPALLS, VEGETATION AND/OR OTHER OBSTRUCTIONS AS NEEDED.
- INSTALL ANCHOR BLOCK PER DETAILS 1 AND 2 SHEET 4 AT THIS APPROXIMATE LOCATION. EXACT LOCATION TO BE DETERMINED IN THE FIELD BY THE PUBLIC WORKS INSPECTOR.
- REMOVE AND REINSTALL BOLLARDS AS NEEDED.
- PLUG EXISTING CULVERT.
- REMOVE AND REPLACE CONCRETE DRIVEWAY PER STANDARD DETAIL #307.

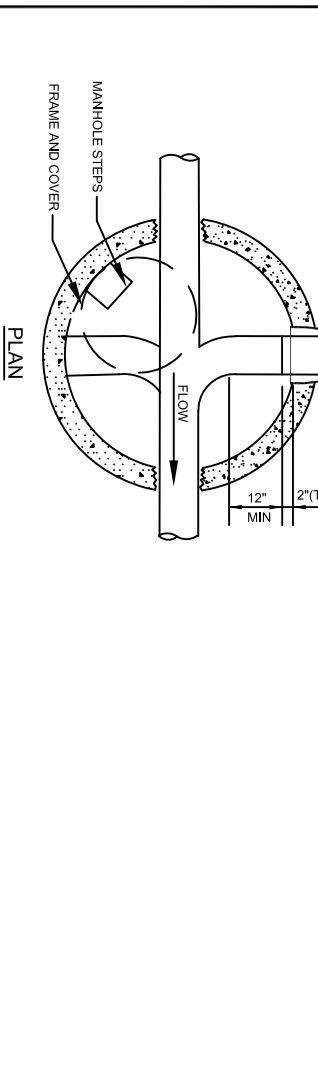
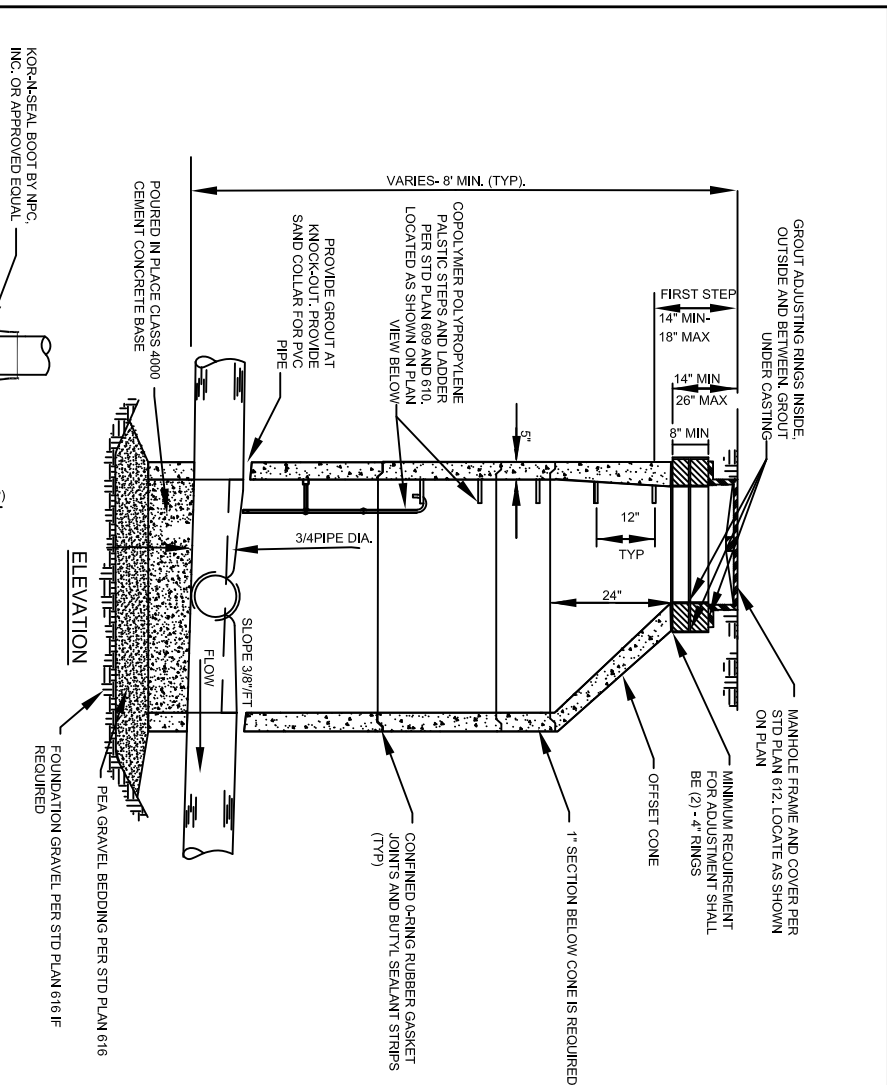
No.	Date	Description	By	App.	City of Snohomish 116 Union Avenue Snohomish, WA 98290 360-568-3115	Plan View Scale = 1:30 Profile Scale H=1:40 V=1:4 Unless Otherwise Noted	Drawn By:	MMS	Date:	May 2015	City of Snohomish Fairview Street Stormwater Improvement Project STA 1+00 - STA 4+07	Drawing No.	C1
1	05/2015	Plansset	MMS	YM			Designed By:	MMS	Date:	May 2015			
							Checked By:	MMS	Date:	May 2015			
							Approved By:	YM	Date:	May 2015			
											Sheet No.	3	4
											of Total		



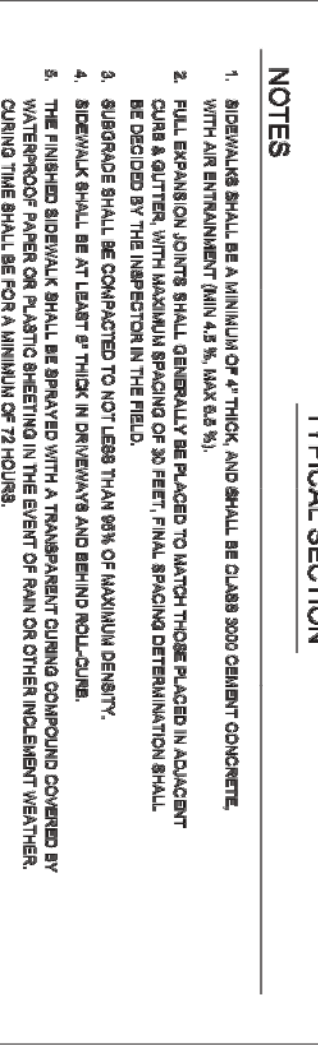
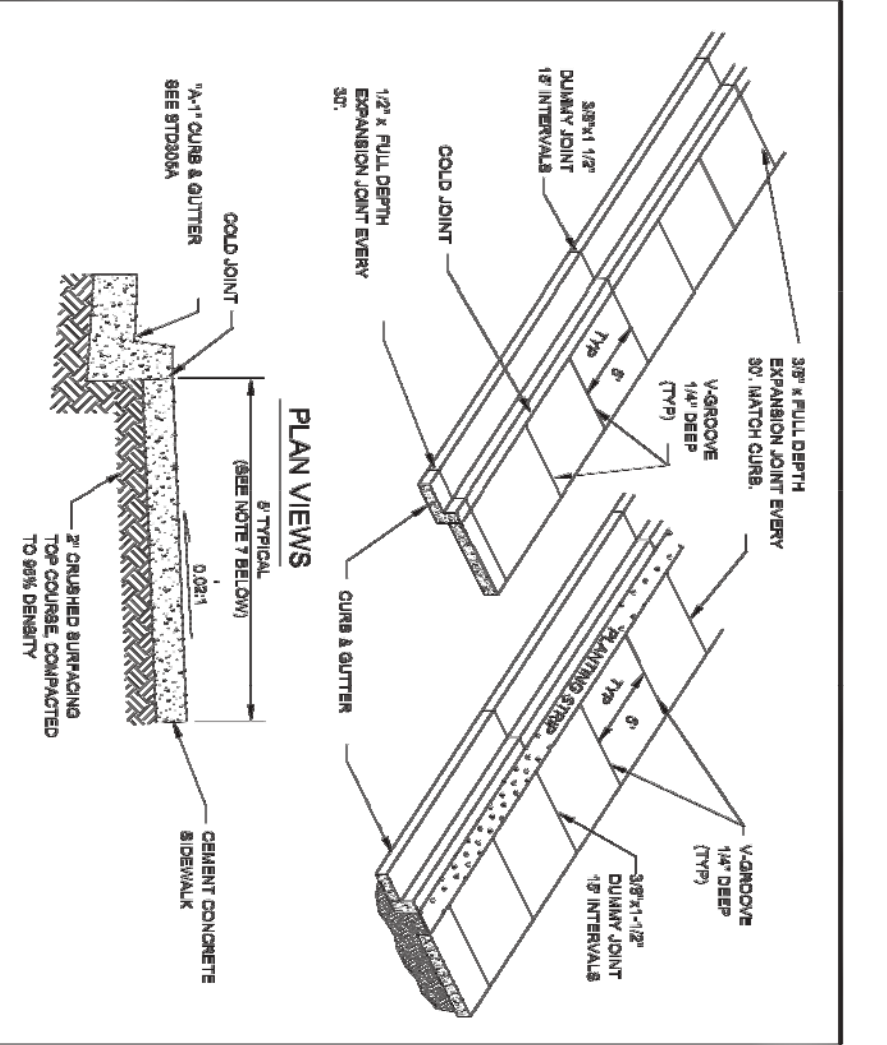
BURIED UTILITIES IN AREA
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1-800-424-5555

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BEST AVAILABLE INFORMATION AND NO
GUARANTEE IS MADE AS TO THE EXACT SIZE,
DEPTH, LOCATION OR DEPTH.

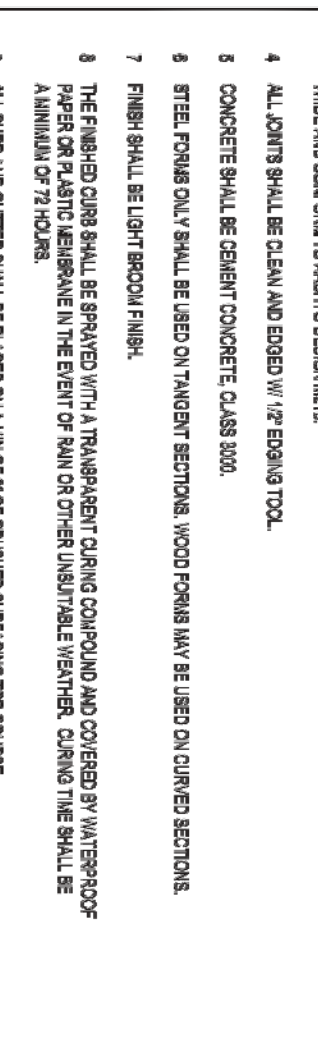
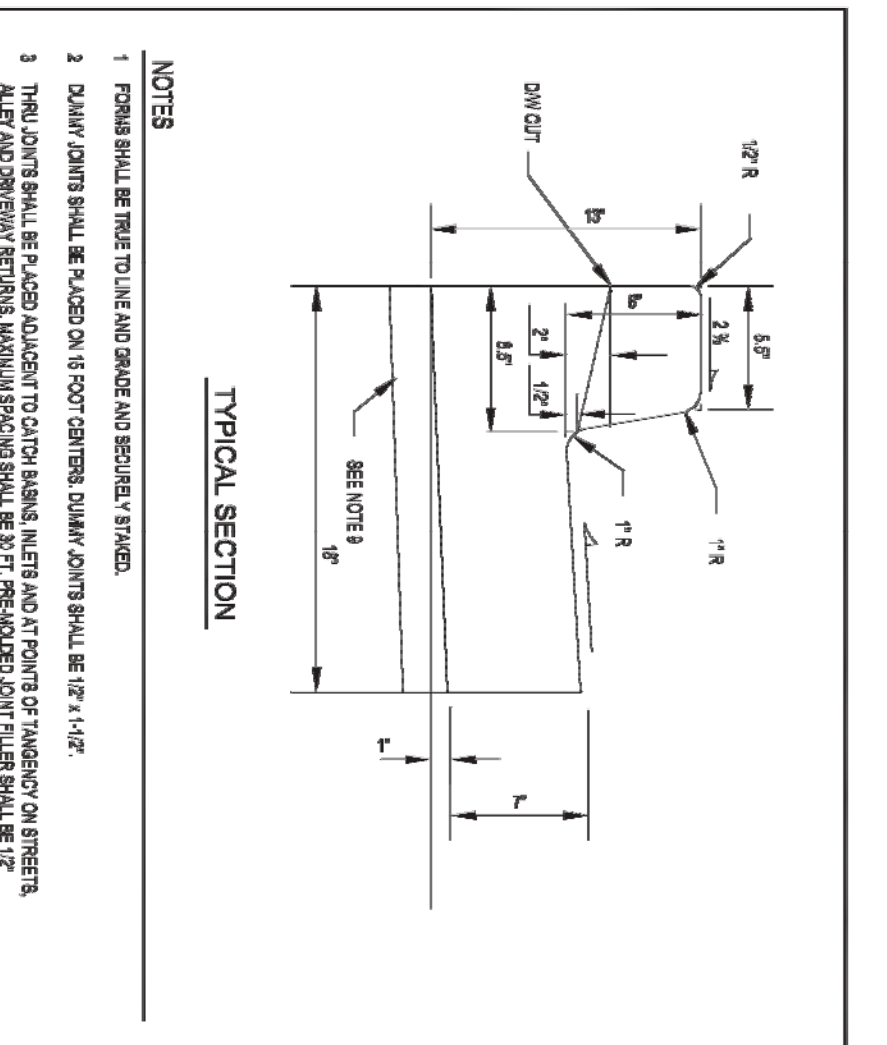




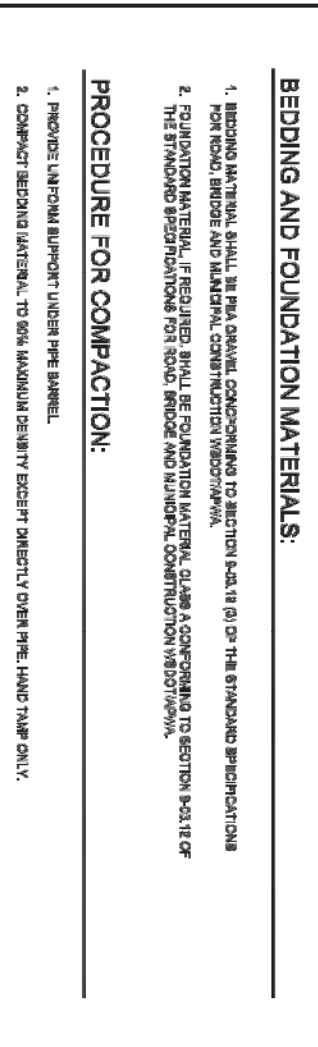
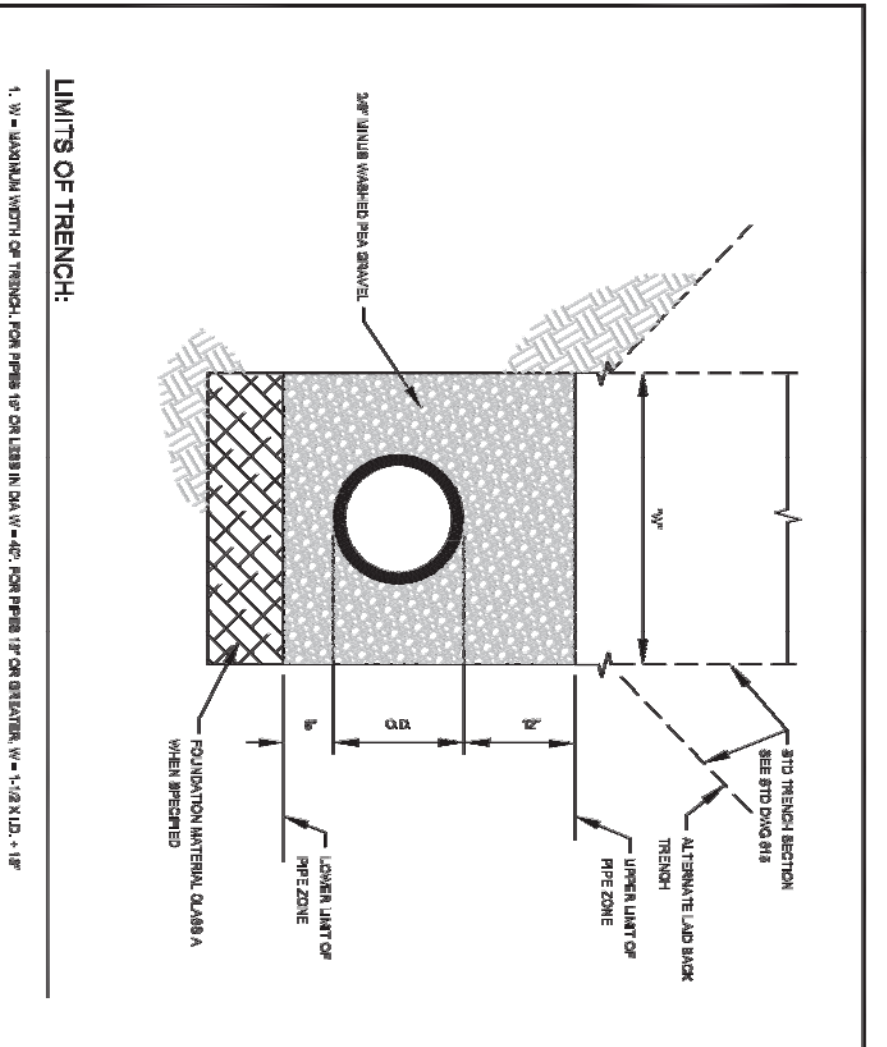
SNOHOMISH	APPROVED BY: SUSAN L. BROWN DATE: April 2010 Number	605
SADDLE MANHOLE - 60"	City of Snohomish Public Works Department	



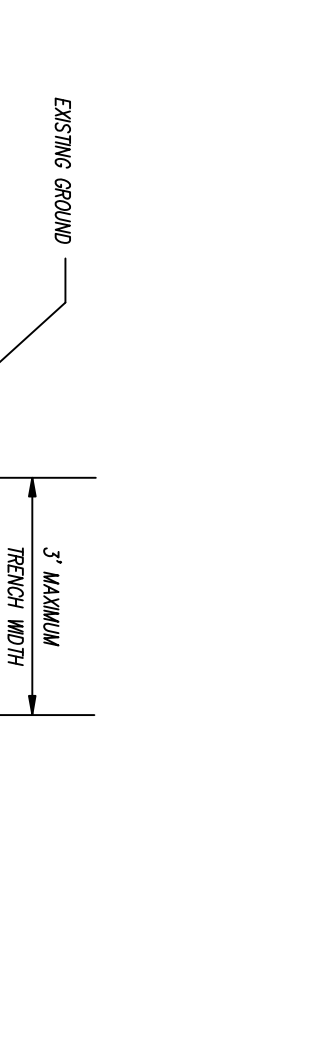
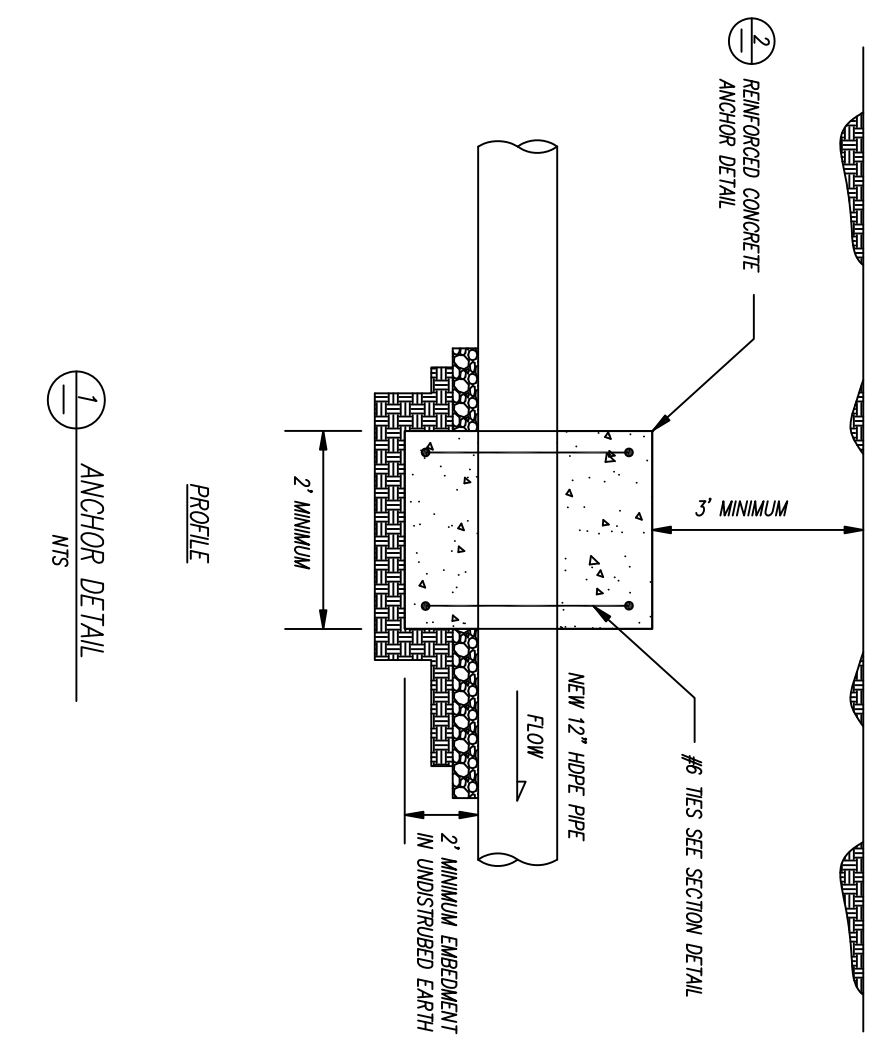
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CEMENT CONCRETE SIDEWALK DETAIL	City of Snohomish Public Works Department	



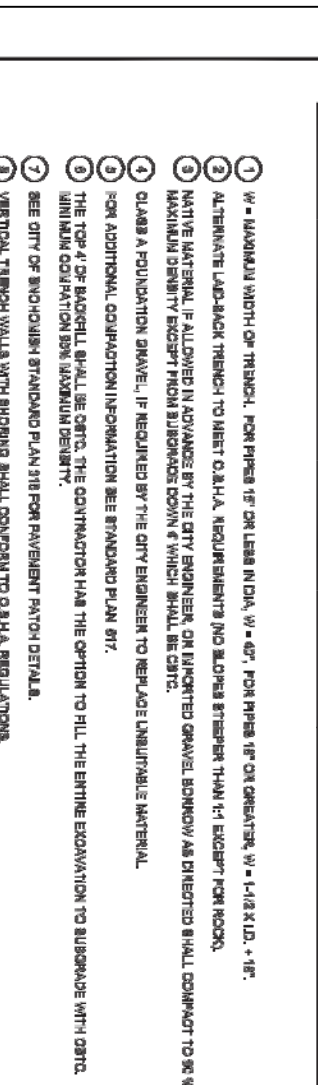
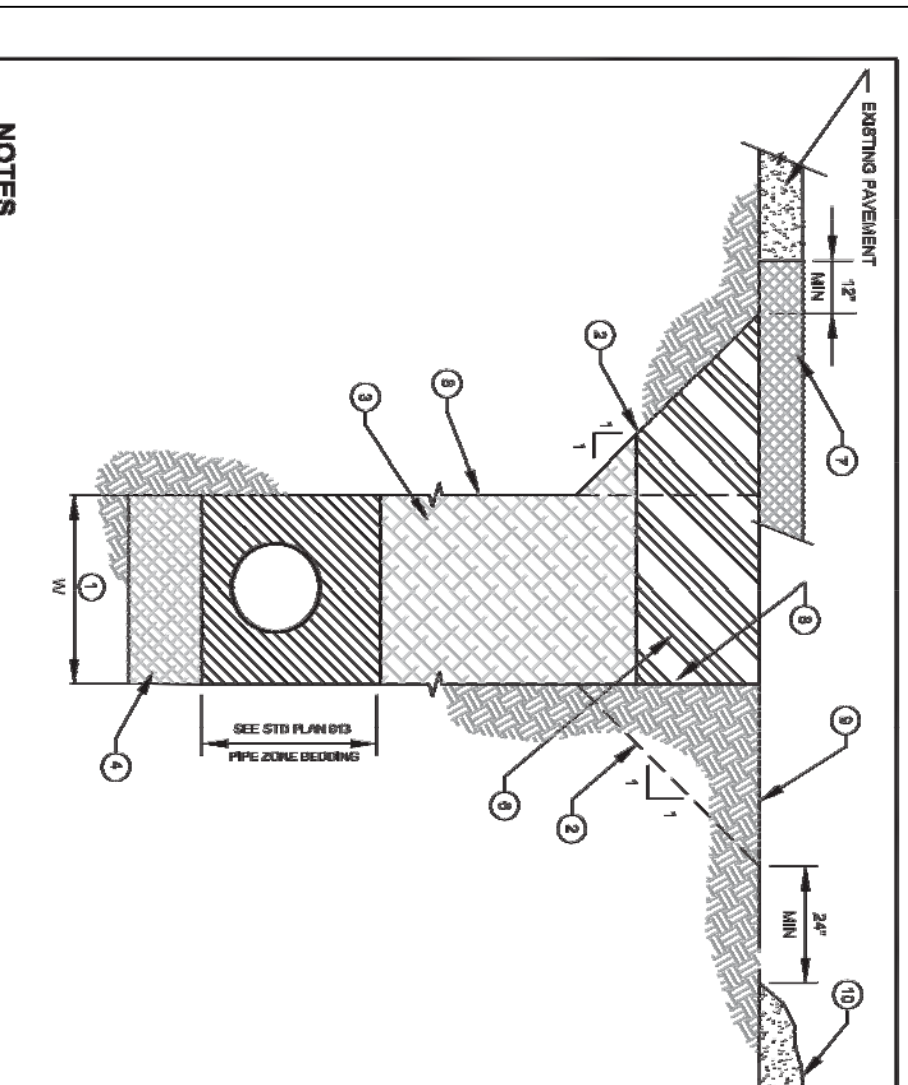
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CEMENT CONCRETE CURB AND GUTTER TYPE "A"	City of Snohomish Public Works Department	



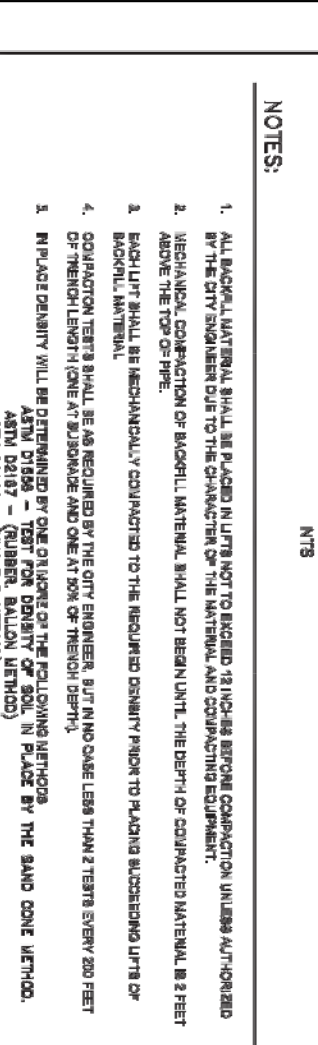
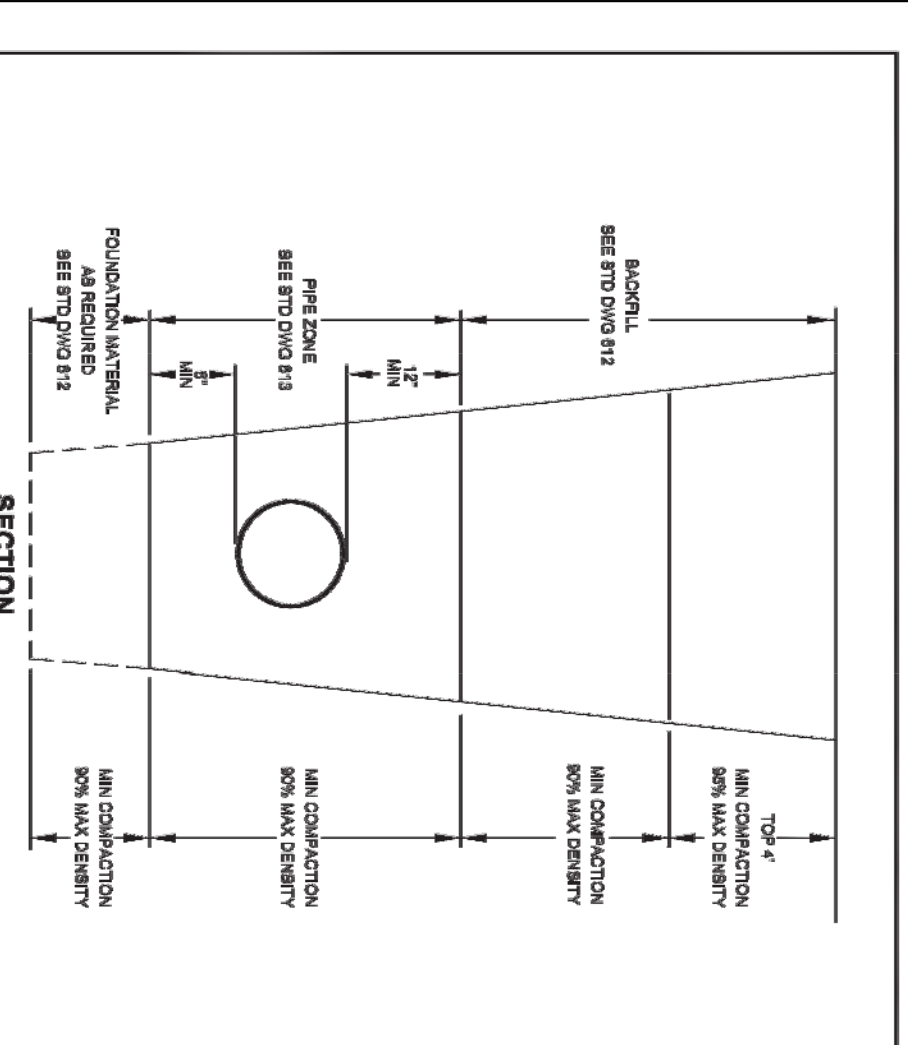
SNOHOMISH	APPROVED BY: SUSAN L. BROWN DATE: April 2010 Number	616
BEDDING FOR SEWER PIPE IN TRENCHES	City of Snohomish Public Works Department	



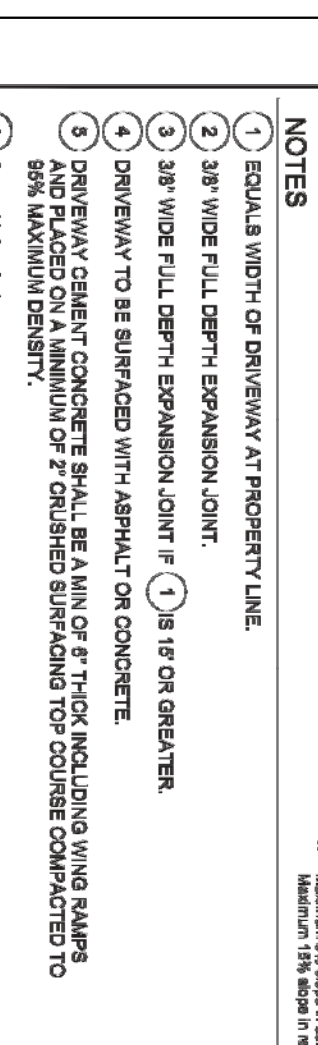
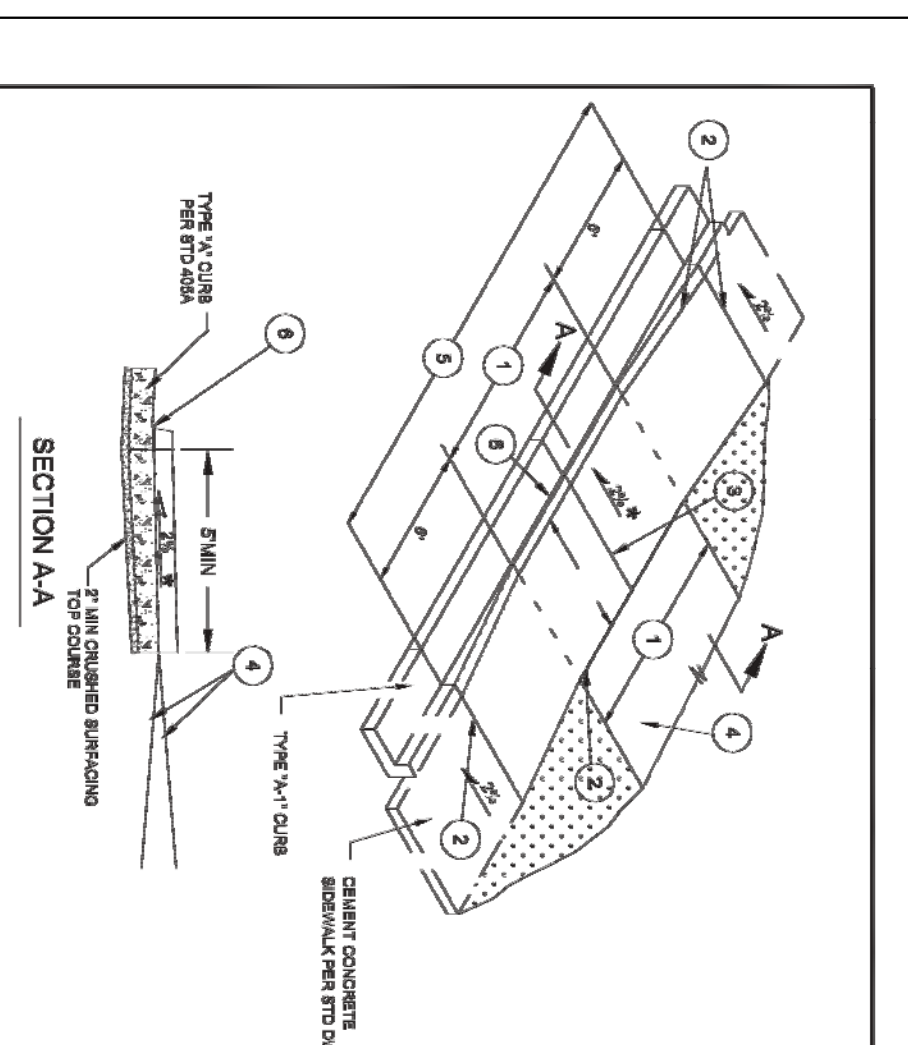
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BEDDING FOR SEWER PIPE IN TRENCHES	City of Snohomish Public Works Department	



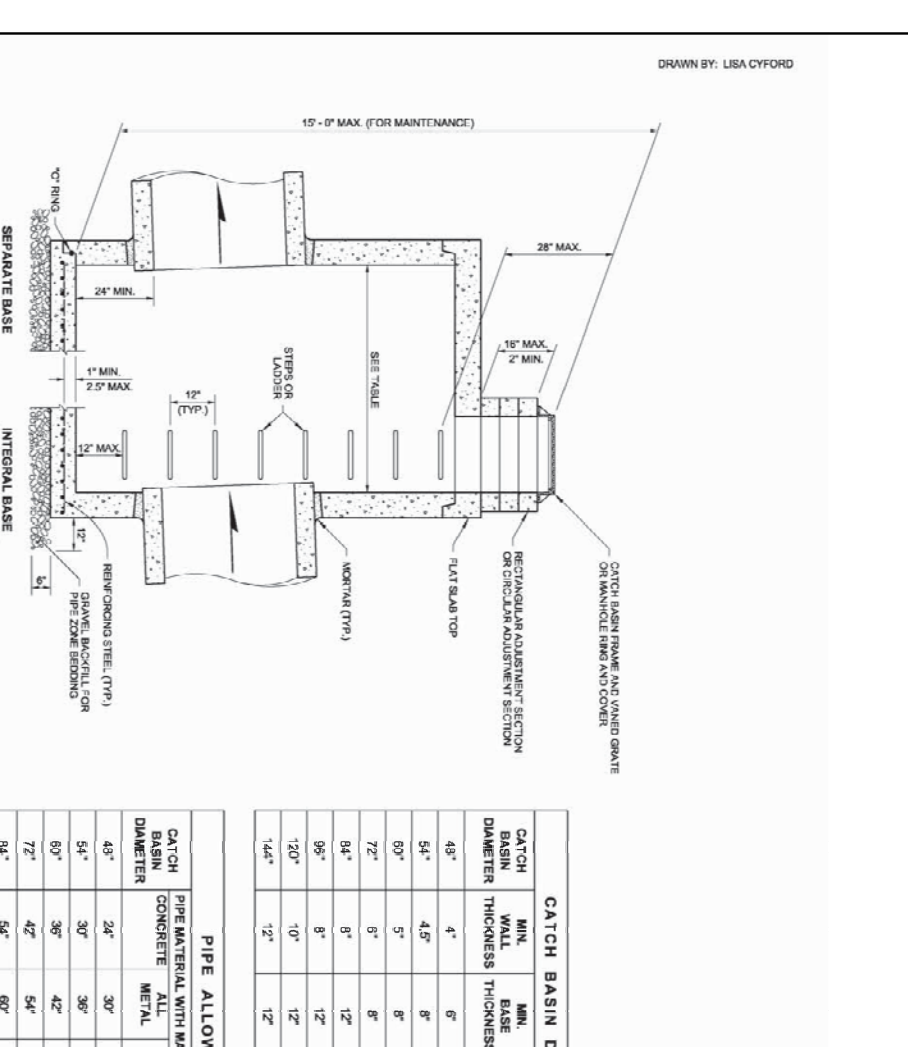
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TYPICAL SEWER TRENCH SECTION	City of Snohomish Public Works Department	



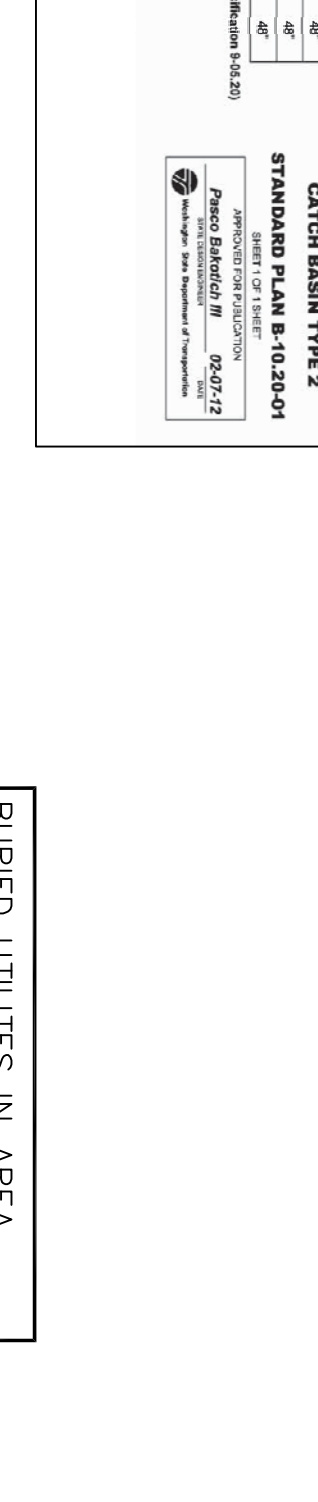
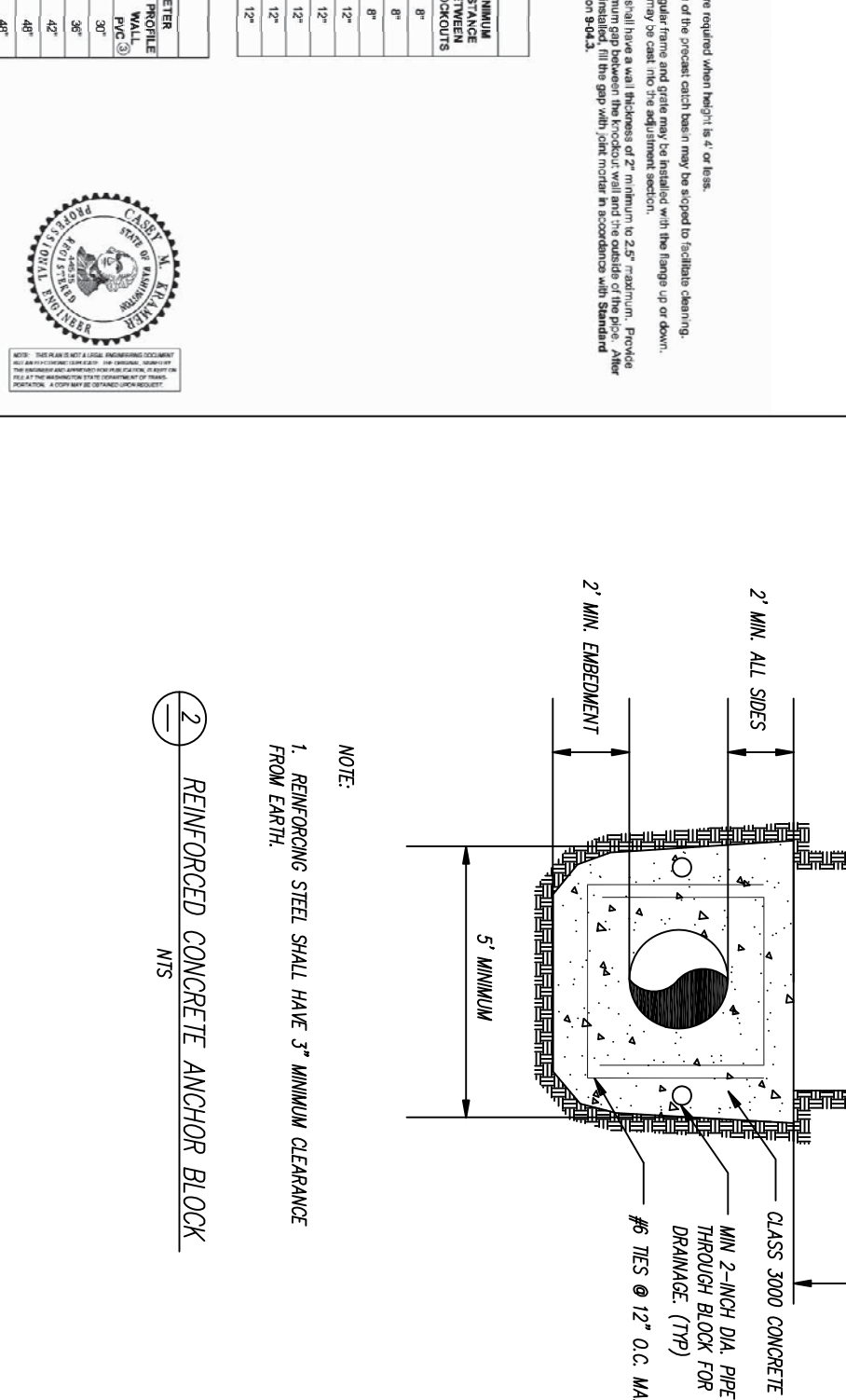
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TYPICAL SEWER TRENCH COMPACTION	City of Snohomish Public Works Department	



SNOHOMISH	APPROVED BY: SUSAN L. BROWN DATE: April 2010 Number	307
CEMENT CONCRETE DRIVEWAY TYPE 1	City of Snohomish Public Works Department	



SNOHOMISH	APPROVED BY: SUSAN L. BROWN DATE: April 2010 Number	616
BEDDING FOR SEWER PIPE IN TRENCHES	City of Snohomish Public Works Department	



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BEDDING FOR SEWER PIPE IN TRENCHES	City of Snohomish Public Works Department	

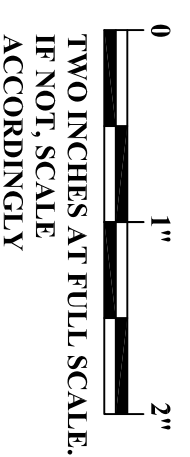
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City of Snohomish	116 Union Avenue
Snohomish, WA 98290	360-568-3115

Plan View Scale = 1:20	Profile Scale
H=1:40	V=1:4
Unless Otherwise Noted	

Drawn By:	MMS	Date:	May 2015
Designed By:	MMS	Date:	May 2015
Checked By:	MMS	Date:	May 2015
Approved By:	YMI	Date:	May 2015

City of Snohomish	Fairview Street
Stormwater Improvement Project	Detail Sheet
Drawing No. C2	Sheet No. 4 of 4



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1-800-424-5555

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