

PIONEER MEADOWS MONTESSORI SCHOOL

2377 DOUGLAS RD, FERNDALE, WA 98248
S 30, T 39 N, R 2 E, W. M.

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SHEET #	TITLE
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C1.01	EXISTING SITE PLAN
C2.00	TESC, DEMOLITION AND PROTECTION ZONE PLAN
C3.00	TESC DETAILS
C3.01	SITE & GRADING PLAN
C4.00	UTILITY PLAN
C4.01	FENCING PLAN
C4.02	DETAILS
C5.00	

SITE PLAN LEGEND

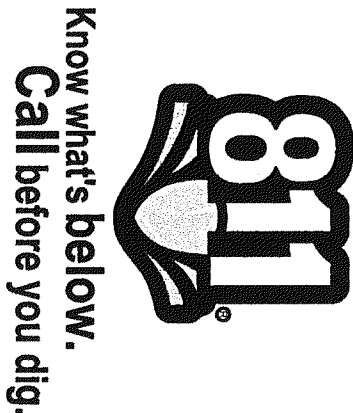
	CONNECT TO BUILDING ELECTRICAL SYSTEM. SEE BUILDING ELECTRICAL PLANS FOR CONNECTION.
	CONNECT TO BUILDING TELECOMMUNICATION SYSTEM. SEE BUILDING TELECOMMUNICATION PLANS FOR CONNECTION.
	CONNECT TO BUILDING POTABLE WATER SYSTEM. SEE BUILDING PLUMBING PLANS FOR CONNECTION.
	CONNECT TO BUILDING WASTEWATER SYSTEM. SEE BUILDING PLUMBING PLANS FOR CONNECTION.
	CONNECT TO BUILDING GAS SYSTEM. SEE PLUMBING PLANS FOR CONNECTION.
	ASPHALT CONCRETE PAVEMENT
	CONCRETE SIDEWALK
	RAINWATER ROOF FLOW
	DOWNSPOUT
	CLEANOUT

DEMOLITION LEGEND

	DEMOLISH AND REMOVE ITEM
	SAWCUT EXISTING CONCRETE CURB AND ASPHALT PAVEMENT. REMOVE FROM SITE AND DISPOSE OF IN A PROPER MANNER.
	CUT AND CAP EXISTING UTILITY LINE AT A MINIMUM OF 18" BELOW PROPOSED GRADE.
	LOCATE AND PROTECT EXISTING UTILITY STUBS PRIOR TO PLACING PILING FOR THE FOUNDATION.

EROSION CONTROL LEGEND

	INLET PROTECTION
	TEMPORARY CONSTRUCTION ENTRANCE
	SILT FENCE



DEC 28 2011
BY *[Signature]* P.E.
CITY OF FERNDALE

APPROVED

ENGINEER:	M. RANDALL
DESIGNED BY:	M. RANDALL
DRAWN BY:	J. FORD
CHECKED BY:	
PROJ. MGR:	M. RANDALL
PROJ. NO:	596PM
FILE NAME:	596_PD_Cover.dwg
SCALE:	1" = 20'

2020 ENGINEERING, INC.
WELSPRING BUILDING
814 DUPONT STREET
BELLINGHAM, WA. 98225
P: (360) 671-2020
F: (360) 671-0322
www.2020engineering.com

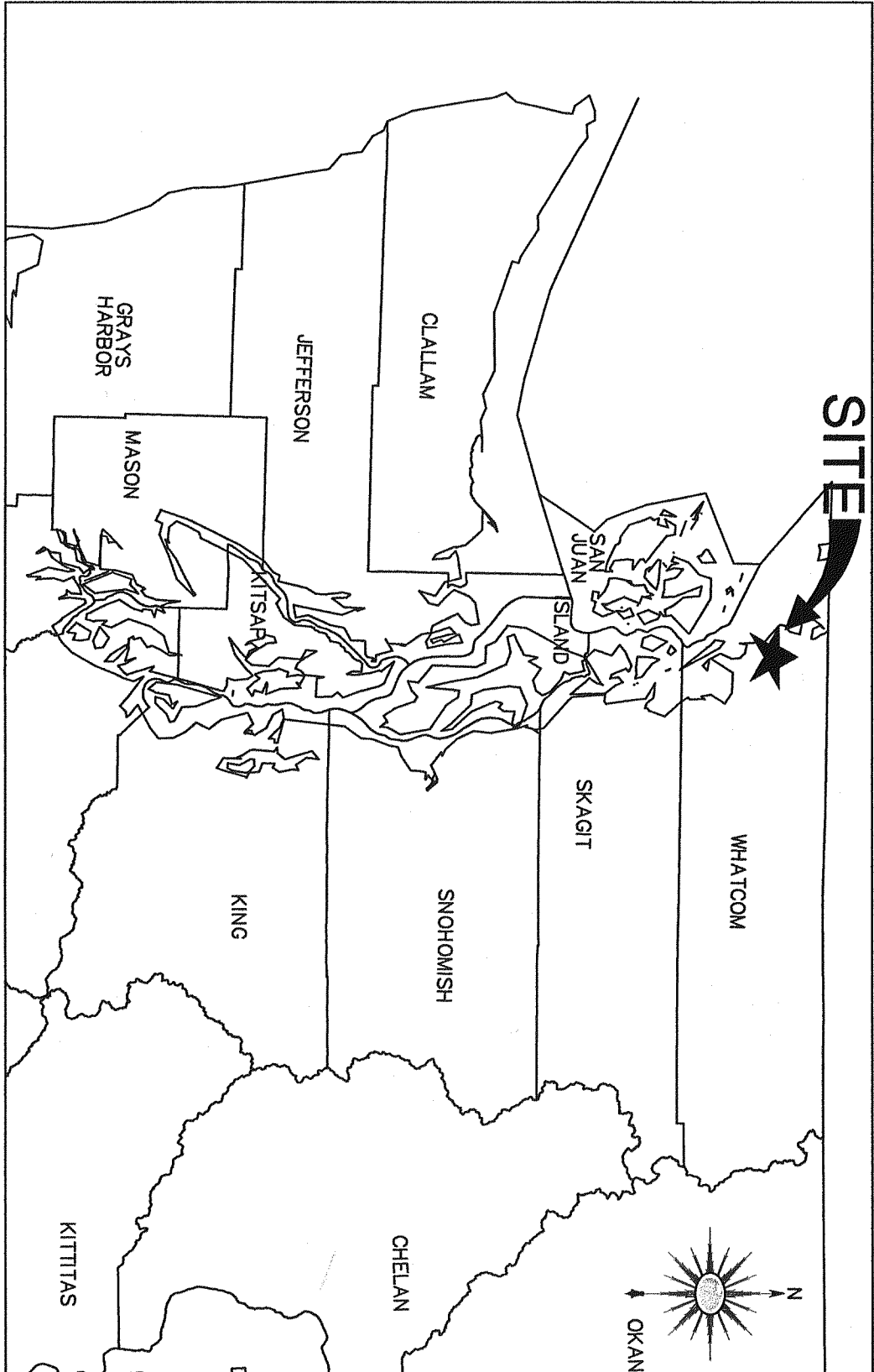


PIONEER MEADOWS
MONTESSORI
SCHOOL
2377 DOUGLAS ROAD
FERNDALE, WA

PIONEER MEADOWS - PHASE II
COVER

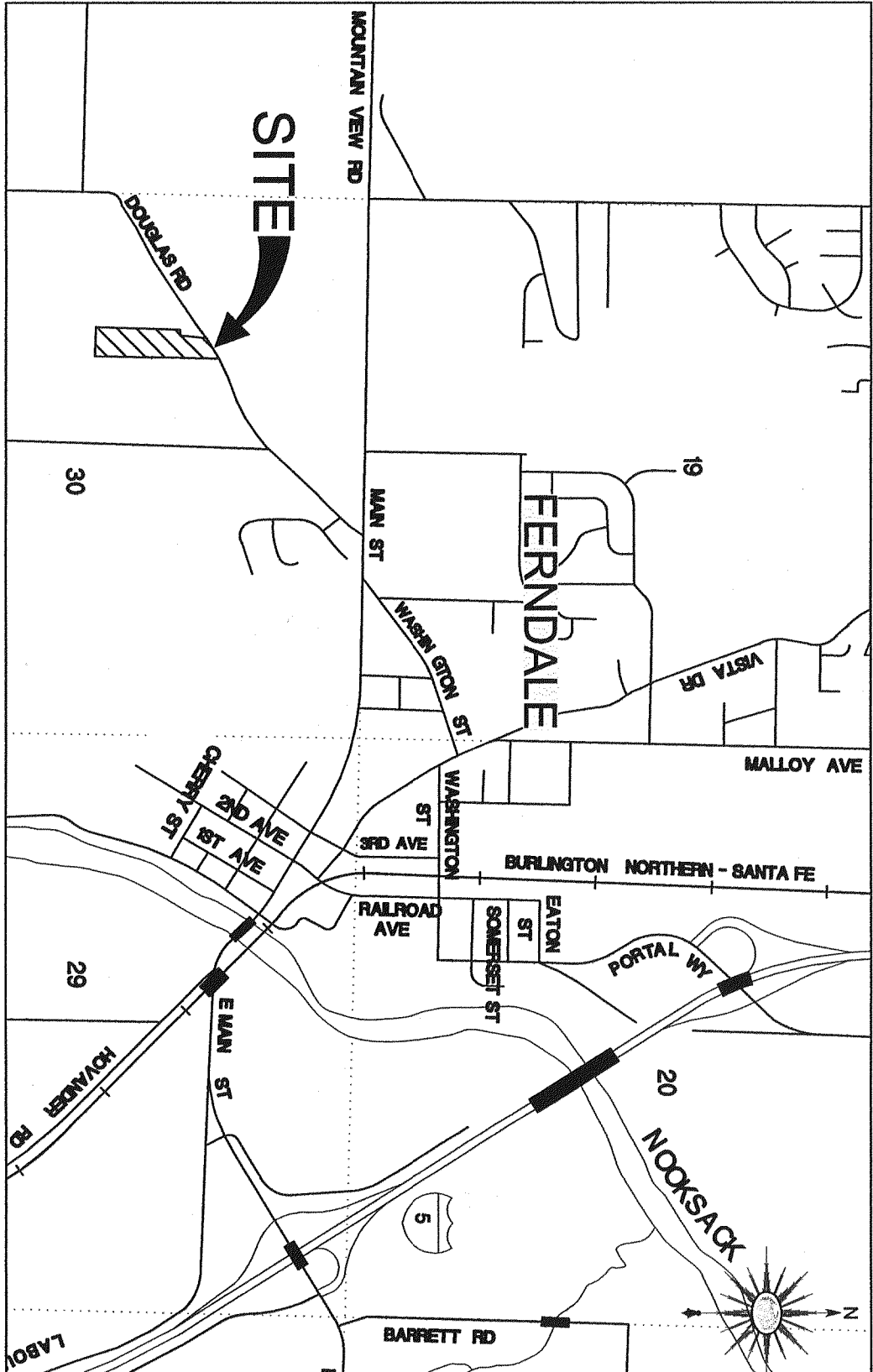
SHEET:
C1.00

VICINITY MAP



LOCATION MAP

SCALE - 1" = 1250'



CONTACT LIST:

OWNER: DATCO EDU LLC. 8687 GREAT HORNEED OWL LN BLAINE, WA 98230-6306 PH: (360) 371-5487 CONTACT: GOERGE MILLS	SURVEYOR: DAVID EVANS & ASSOCIATES INC. 1620 W. MARINE VIEW DRIVE, SUITE 200 EVERETT, WA 98201 PH: (425) 259-4099
--	--

SERVICE CONTACTS:

WATER / SEWER: CITY OF FERNDALE 2095 MAIN STREET FERNDALE, WA. 98248	PROPERTY ADDRESSES: 2377 DOUGLAS AVE FERNDALE, WA 98248
NATURAL GAS: CASCADE NATURAL GAS 1600 IOWA STREET BELLINGHAM, WA. 98229	PROPERTY ZONING: RS 6.5 SINGLE FAMILY DWELLING
ELECTRICITY: PUGET SOUND ENERGY 10885 NE 4TH STREET P.O. BOX 97034 BELLEVUE, WA. 98009 PH: (888) 321-7779	TAX PARCEL NUMBER: 390230 130306 0000
FIRE PROTECTION: WHATCOM COUNTY FIRE DISTRICT #7 P.O. BOX 1599 FERNDALE, WA. 98248	GROSS SITE AREA: 244,371 SF (6.61 AC.)

RECORD DRAWING

LEGEND

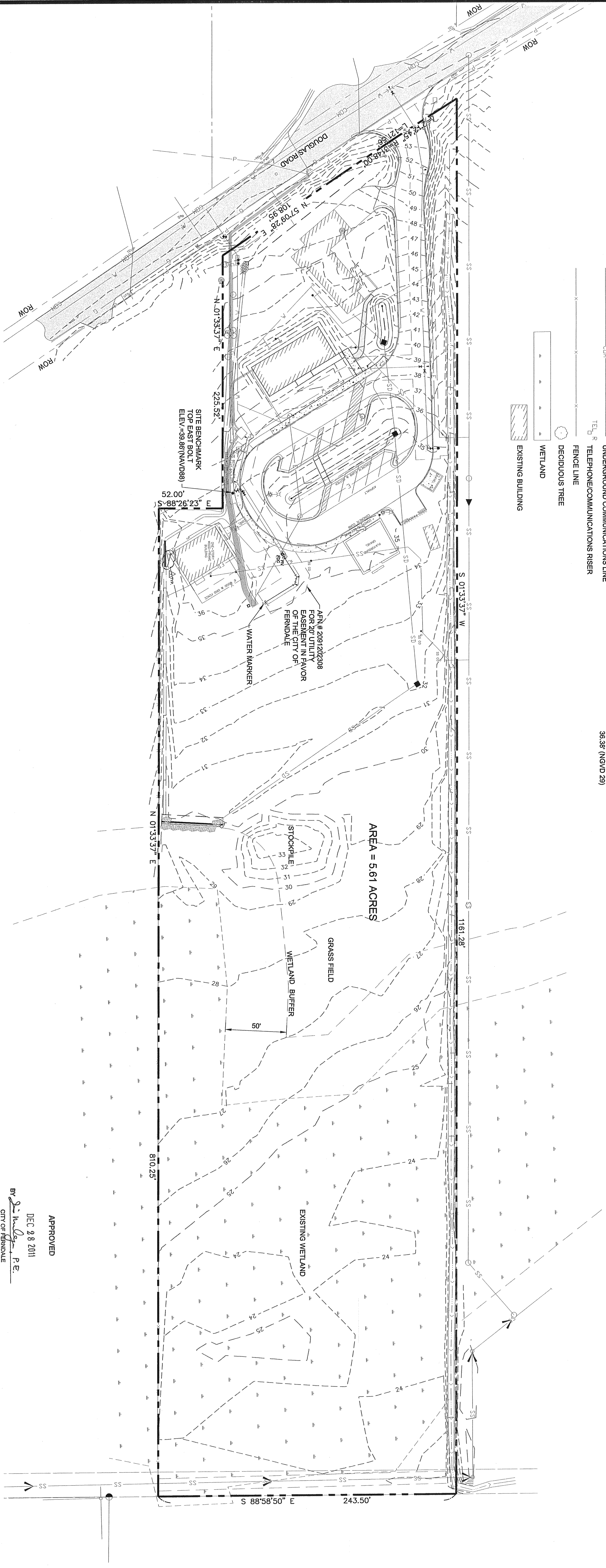
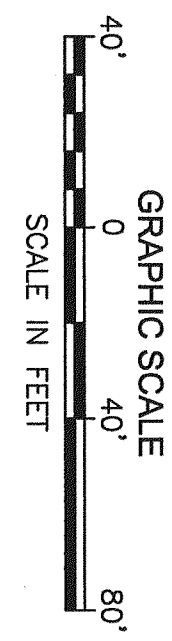
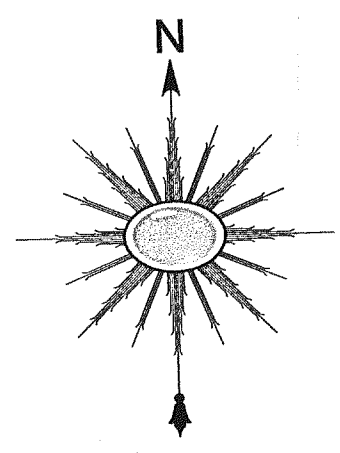
- PROPERTY LINE
- WATER MAIN
- WATER VALVE
- FIRE HYDRANT
- WELL
- STORM DRAIN
- STORM DRAIN CATCH BASIN
- SANITARY SEWER MAIN
- SANITARY SEWER MANHOLE
- GAS MAIN
- OVERHEAD POWER LINE
- UNDERGROUND POWER LINE
- OVERHEAD UTILITY POLE
- OVERHEAD POWER POLE
- OVERHEAD TELEPHONE LINE
- OVERHEAD TELEPHONE POLE
- UNDERGROUND COMMUNICATIONS LINE
- TELEPHONE/COMMUNICATIONS RISER
- FENCE LINE
- DECIDUOUS TREE
- WETLAND
- EXISTING BUILDING

DATUM

- HORIZONTAL CONTROL (NAD83):
 - FERN 616:
 - FOUND A BRASS DISK AT THE APPARENT INTERSECTION OF MAIN AND HENDRICKSON
 - NORTHING: 679,184.78'
 - EASTING: 1,213,412.55'
 - FERN 616:
 - FOUND ENCASED 1" IP OD AT THE APPARENT INTERSECTION OF CHURCH AND MOUNTAIN VIEW
 - NORTHING: 679,239.58'
 - EASTING: 1,211,040.30'
 - VERTICAL CONTROL (NAD 88):
 - REFERENCE BENCHMARK: FERN 07
 - FOUND ENCASED 2" BRASS DISK IN ASPHALT DRIVEWAY INTO TRIUMPH LUTHERAN CHURCH ON CHURCH ROAD
 - NORTHING: 679,459.13'
 - EASTING: 1,211,031.14'
 - ELEVATION: 150.63' (NAD 88)
 - 147.15' (NGVD 29)
- SITE BENCHMARK:
 - WESTERLY MOST FIRE HYDRANT ON SUBJECT PROPERTY, CHISELED "X" TOP EAST BOLT.
 - ELEVATION: 38.88' (NAD 88)
 - 38.38' (NGVD 29)

NOTE

- 1. EXISTING CONDITIONS SITE PLAN PREPARED BASED ON TOPOGRAPHIC SURVEY PERFORMED BY STEFAN LAUFER P.L.S. IN JUNE OF 2010 AND AS-BUILTS OF PREVIOUS PHASES BY DAVID EVANS AND ASSOCIATES.



APPROVED

DEC 28 2011
BY *[Signature]* P.E.
CITY OF FERNDALE

RECORD DRAWING

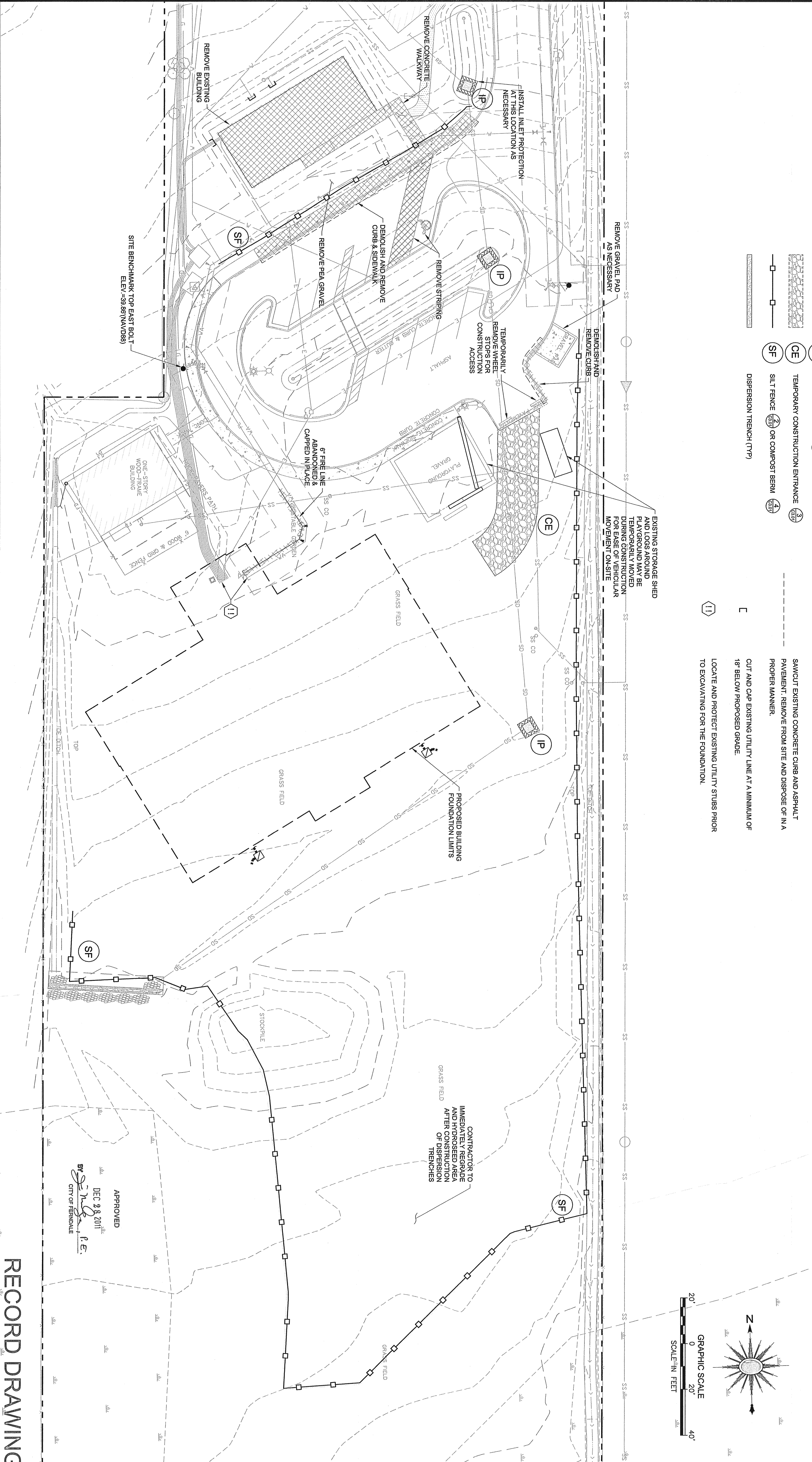
		ENGINEER: M. RANDALL			
		DESIGNED BY: M. RANDALL		DATE: 10-25-11	
		DRAWN BY: J. FORD		DATE: 10-25-11	
		CHECKED BY:		DATE:	
		PROJ. MNGR: M. RANDALL			
		PROJ. NO: 596PMM			
		FILE NAME:			
		SCALE:			
NO.	DATE	BY	APPR.	REVISION	
<div><div><p>2020 ENGINEERING, INC. WELLSPRING BUILDING 814 DUPONT STREET BELLINGHAM, WA. 98225 P: (360) 671-2020 F: (360)671-0322 www.2020engineering.com</p></div><div><p>PIONEER MEADOWS MONTESSORI SCHOOL 2377 DOUGLAS ROAD FERNDAL, WA</p></div><div><p>PIONEER MEADOWS - PHASE II EXISTING SITE PLAN</p></div><div><p>SHEET: C2.00</p></div></div>					

EROSION CONTROL LEGEND

- IP INLET PROTECTION (250)
- CE TEMPORARY CONSTRUCTION ENTRANCE (250)
- SF SILT FENCE (250) OR COMPOST BERM (250)
- DISPERSION TRENCH (TYP)

DEMOLITION LEGEND

- XXXXXXXXXXXXXXXXX DEMOLISH AND REMOVE ITEM
- SAWCUT EXISTING CONCRETE CURB AND ASPHALT PAVEMENT. REMOVE FROM SITE AND DISPOSE OF IN A PROPER MANNER.
- L CUT AND CAP EXISTING UTILITY LINE AT A MINIMUM OF 18" BELOW PROPOSED GRADE.
- (11) LOCATE AND PROTECT EXISTING UTILITY STUDS PRIOR TO EXCAVATING FOR THE FOUNDATION.



RECORD DRAWING

NO.	DATE	BY	APP.	REVISION	ENGINEER: M. RANDALL	DESIGNED BY: M. RANDALL	DATE: 10-25-11
					DRAWN BY: J. FORD	DATE: 10-25-11	
					CHECKED BY:	DATE:	
					PROJ. MGR: M. RANDALL		
					PROJ. NO: 596PMM		
					FILE NAME: 596_PD_Tesc.dwg		
					SCALE: 1" = 20'		

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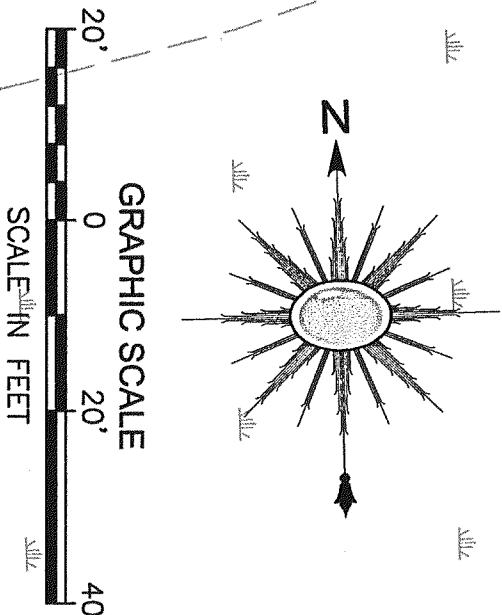
MARK S. BIDDEMAN
PROFESSIONAL ENGINEER
STATE OF WASHINGTON
LICENSE NO. 14444

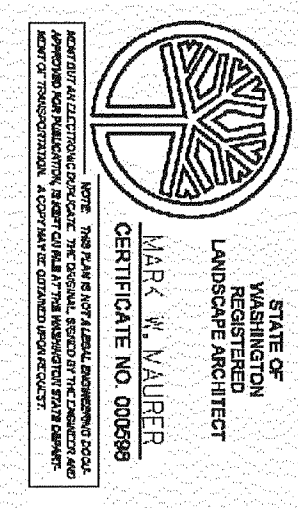
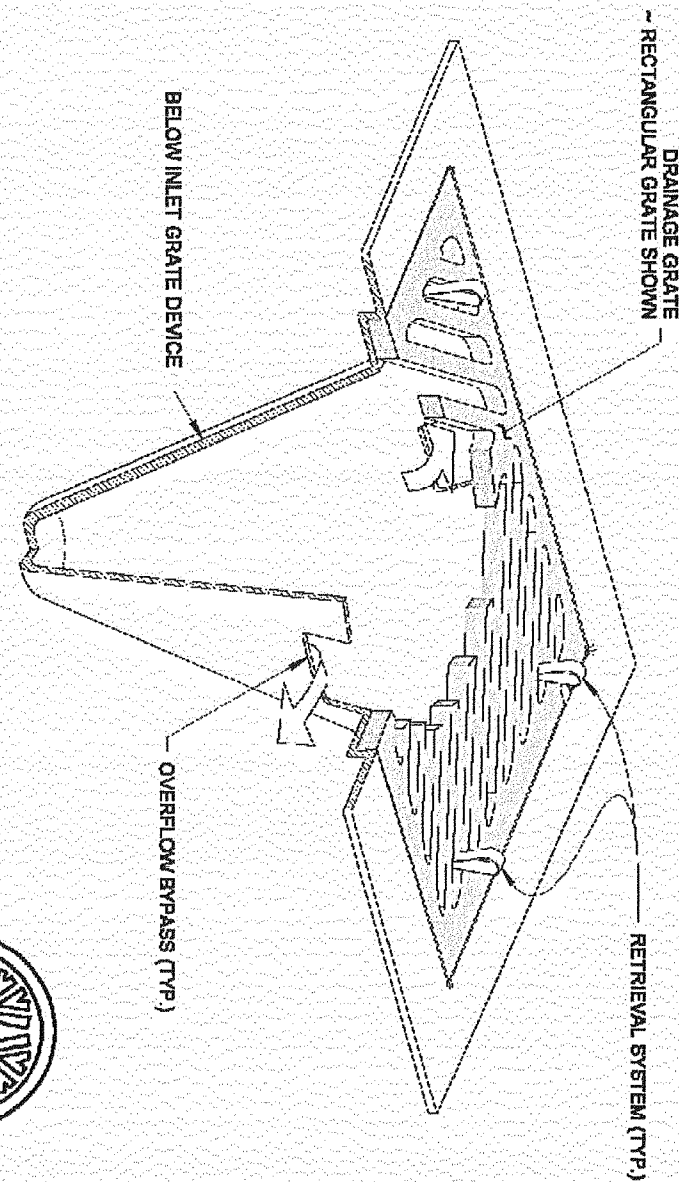
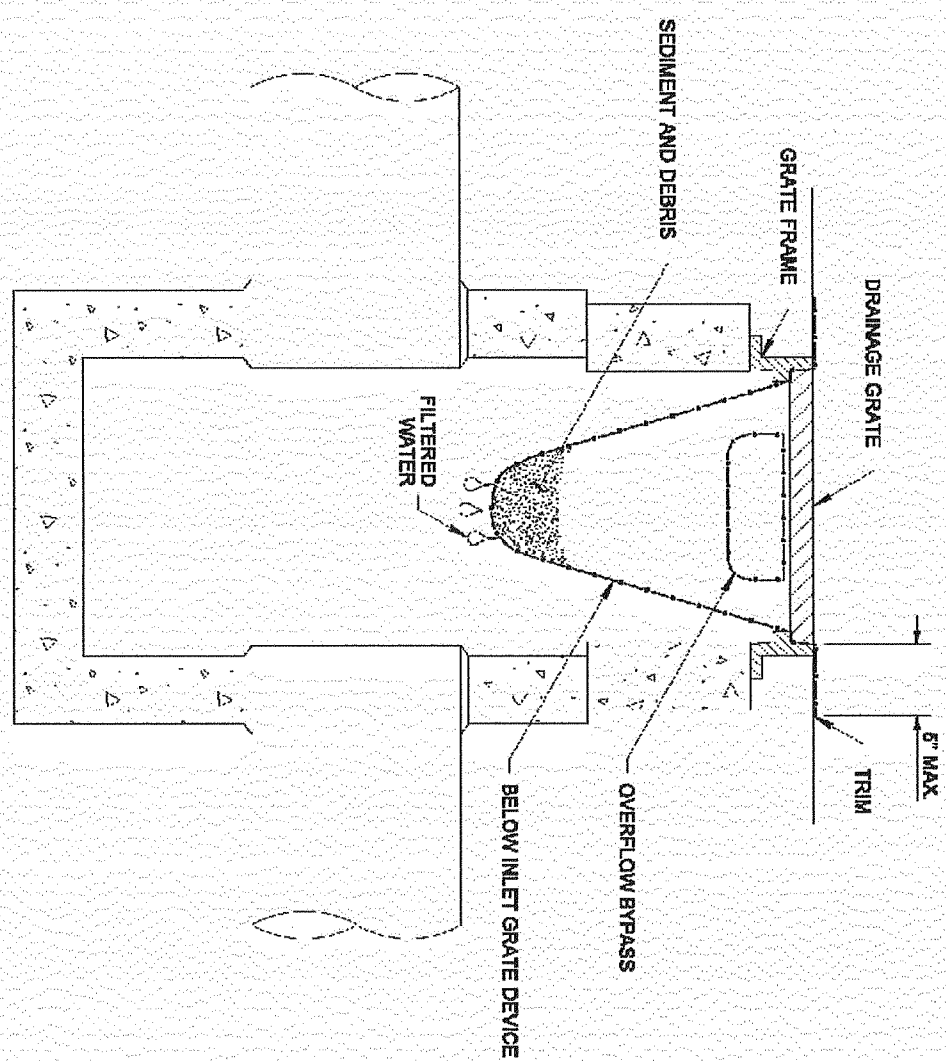
PIONEER MEADOWS
MONTESSORI
SCHOOL
2377 DOUGLAS ROAD
FERNDAL, WA

TESC, DEMOLITION, AND
PROTECTION ZONE PLAN

SHEET:
C3.00

APPROVED
DEC 28 2011
BY: [Signature] P.E.
CITY OF FERNDAL

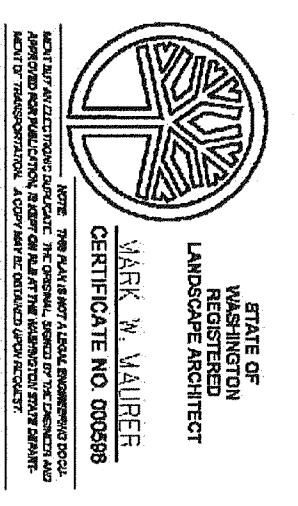
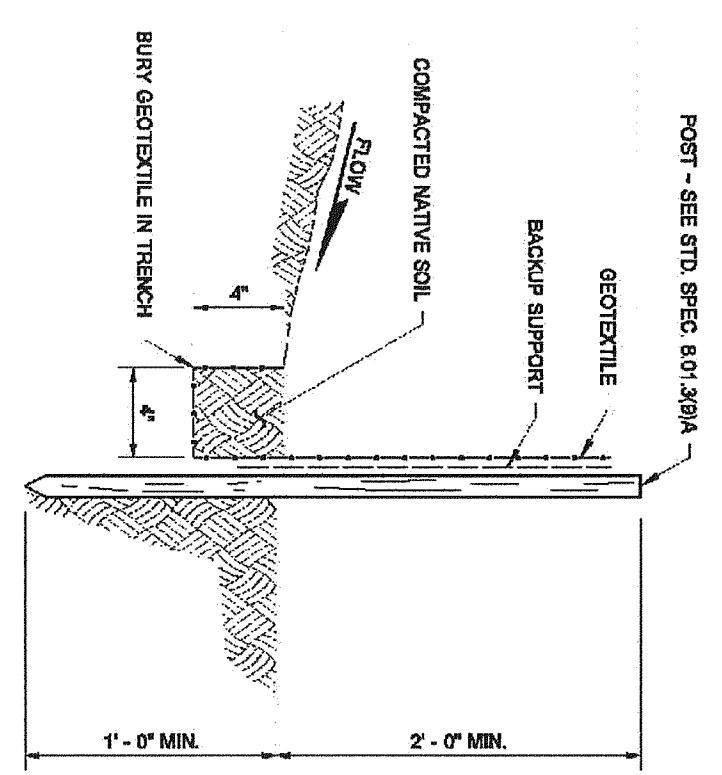
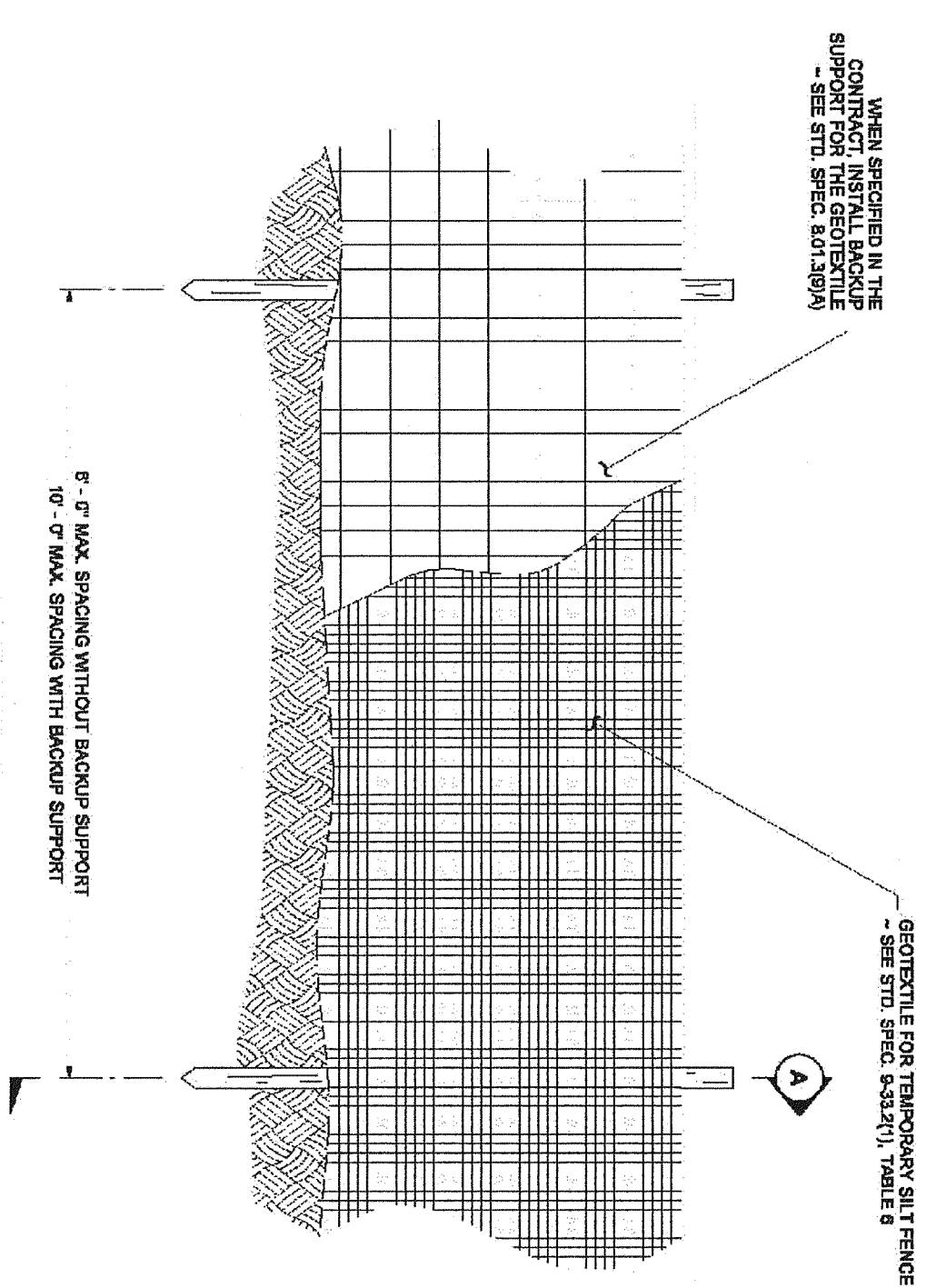




STORM DRAIN INLET PROTECTION
STANDARD PLAN I-40-20-00
 SHEET 1 OF 1 SHEET
 Approved for Publication
 Pasco Barotich III 08-20-07
 State Engineer
 Washington State Department of Transportation

- NOTES**
1. Size the Below Inlet Grate Device (BIGD) for the storm water structure it will service.
 2. The BIGD shall have a built-in high-flow relief system (overflow bypass).
 3. The relief system must allow removal of the BIGD without spilling the collected material.
 4. Perform maintenance in accordance with Standard Specification 8-01.3(15).

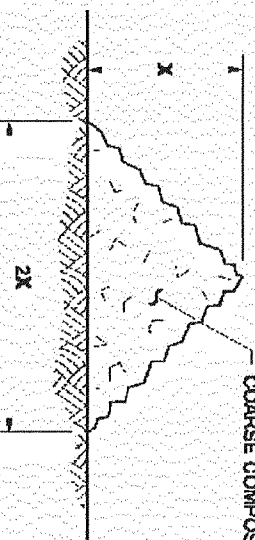
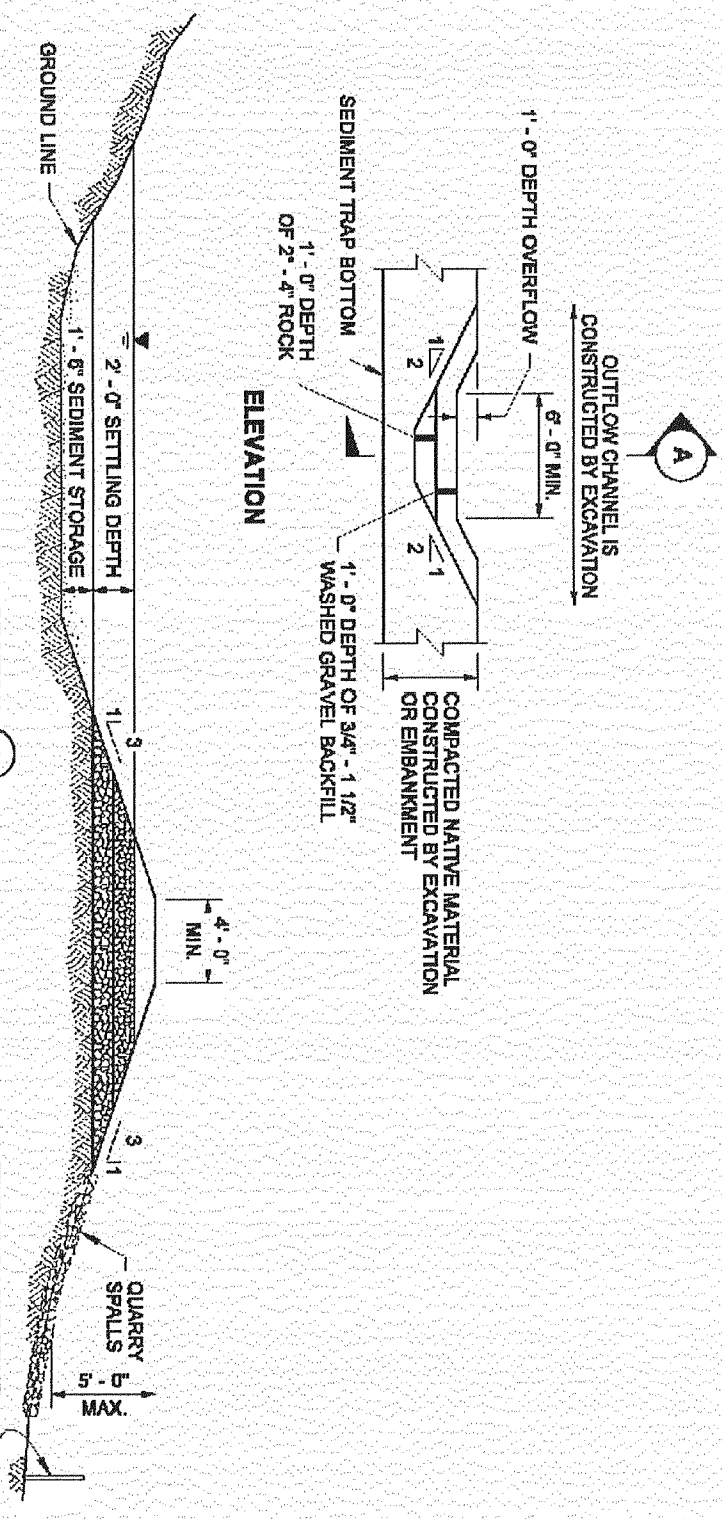
1 INLET PROTECTION
 C3.00 NTS



SILT FENCE
STANDARD PLAN I-30-10-00
 SHEET 1 OF 1 SHEET
 Approved for Publication
 Pasco Barotich III 08-20-07
 State Engineer
 Washington State Department of Transportation

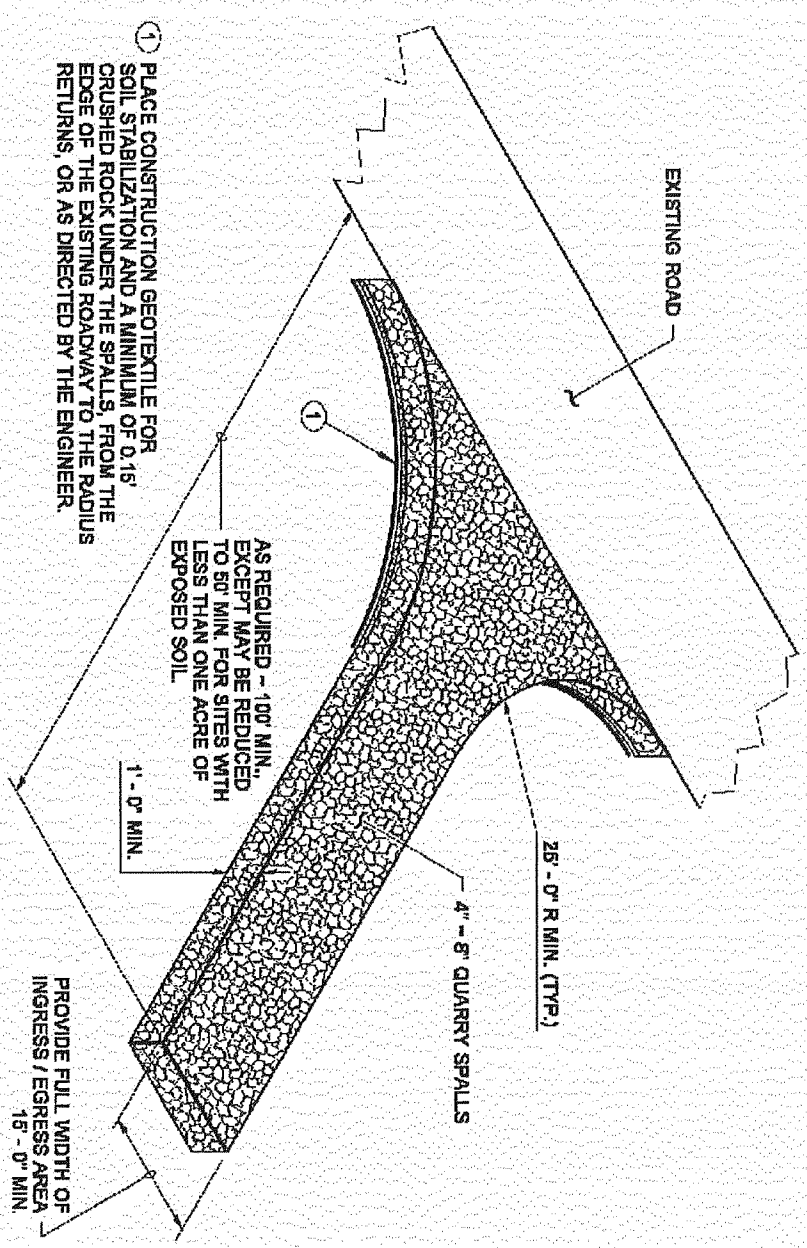
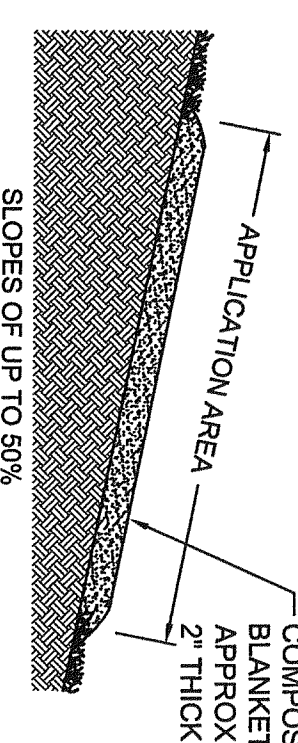
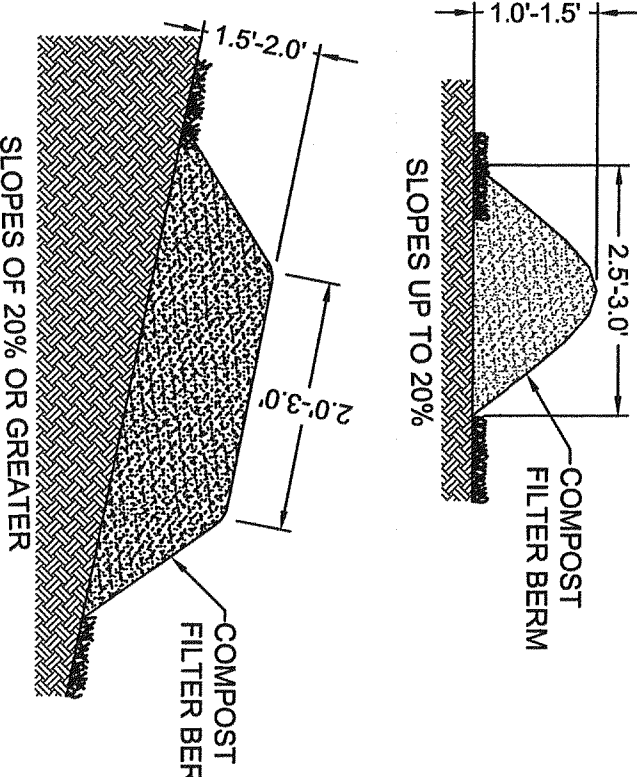
- NOTES**
1. Maximize detention of stormwater by placing fence as far away from toe of slope as possible without encroaching on sensitive areas or outside of the clearing boundaries.
 2. Install silt fencing along contours whenever possible.
 3. Install the ends of the silt fence to point slightly up-slope to prevent sediment from flowing around the ends of the fence.
 4. Perform maintenance in accordance with Standard Specifications 8-01.3(9)(a) and 8-01.3(15).

2 SILT FENCE
 C3.00 NTS

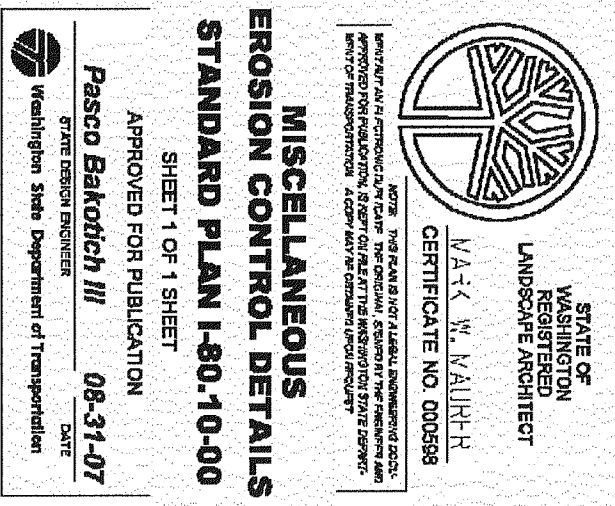


TEMPORARY SEDIMENT TRAP
 SECTION A

COMPOST BERM DETAIL
 TYPICAL SECTION



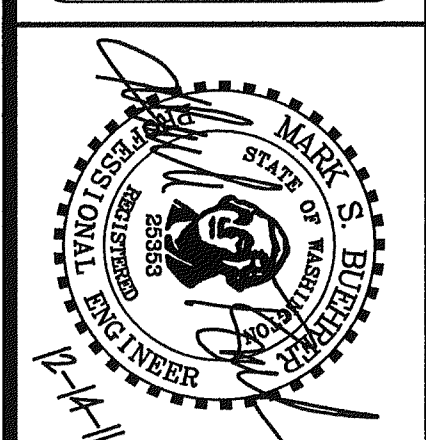
3 TEMPORARY CONSTRUCTION ENTRANCE
 C3.00 NTS



MISCELLANEOUS EROSION CONTROL DETAILS
STANDARD PLAN I-80-10-00
 SHEET 1 OF 1 SHEET
 Approved for Publication
 Pasco Barotich III 08-20-07
 State Engineer
 Washington State Department of Transportation

ENGINEER:	M. RANDALL
DESIGNED BY:	M. RANDALL
DRAWN BY:	J. FORD
CHECKED BY:	
PROJ. MGR:	M. RANDALL
PROJ. NO.:	596PJM
FILE NAME:	596_PD_TSC Details.dwg
SCALE:	N/A

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PIONEER MEADOWS MONTESSORI SCHOOL
 2377 DOUGLAS ROAD
 FERNDALE, WA

4 COMPOST BERM
 C3.00 NTS

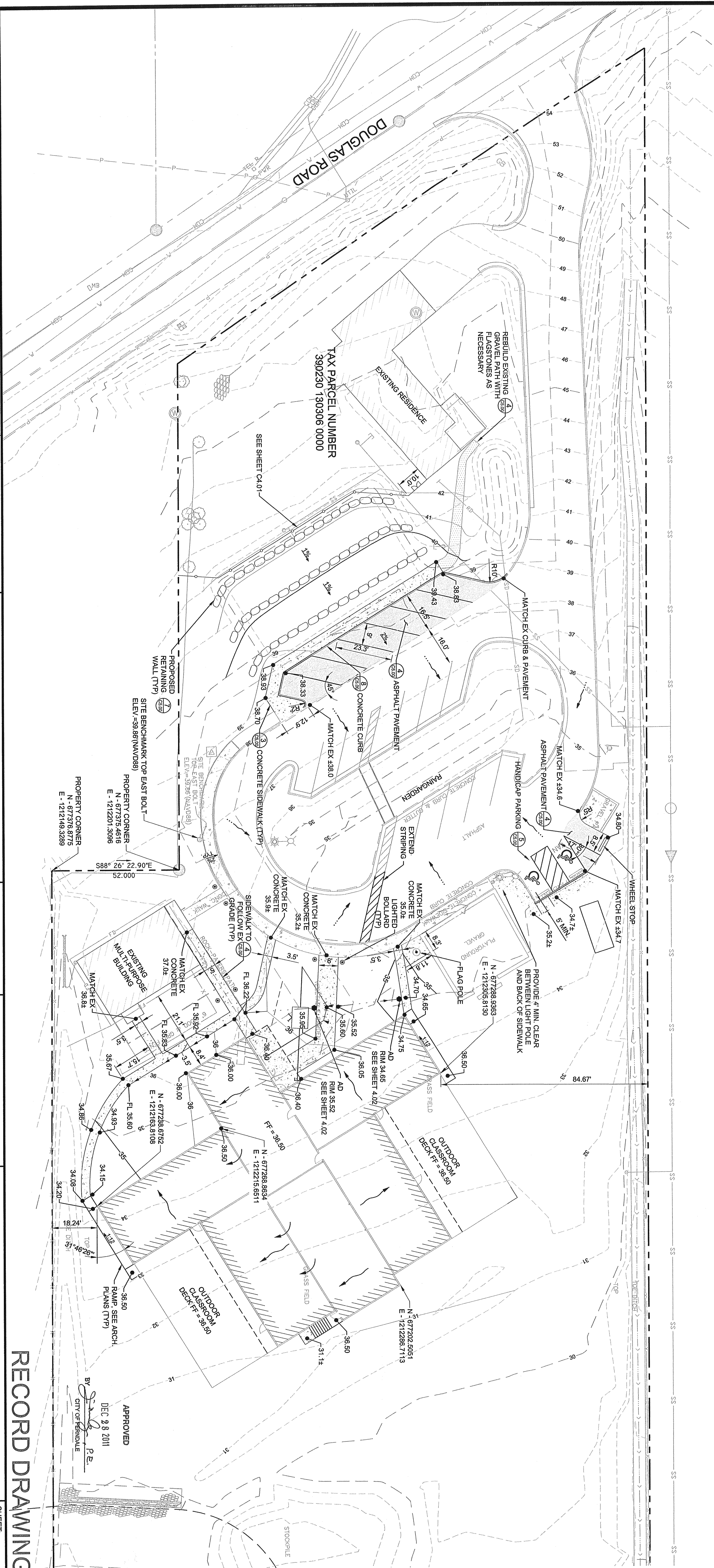
APPROVED
 DEC 28 2011
 BY [Signature] P.E.
 CITY OF FERNDALE

- BERM NOTES:**
1. FILTER BERM COMPOST AND COMPOST BLANKET MATERIAL SHALL BE COMPOSED OF ORGANIC MATERIAL PRODUCED BY AEROBIC DECOMPOSITION. IT MUST MEET THE US COMPOSTING COUNCIL'S SEAL OF TESTING ASSURANCE FOR WEEDS, PATHOGENS AND TESTING ATTENTION, DISCLOSED HEAVY METALS, STRONG LENTILS, AND NUTRIENT. CEDAR GROVE COMPOSTING COMPOST, OR APPROVED EQUIVALENT, WILL BE ADEQUATE.
 2. AN EROSION CONTROL BERM SHALL BE PLACED UNCOMPACTED, IN LOCATIONS INDICATED BY ENGINEERING DRAWINGS.
 3. THE METHOD OF PLACEMENT SHALL BE VIA "BLOWER TRUCK." CEDAR-GROVE COMPOSTING BLOWER SERVICE, OR AN APPROVED EQUIVALENT, WILL BE ADEQUATE.
 4. THE SIZE AND SHAPE OF THE BERM IS DICTATED BY THE SLOPE OF THE APPLICATION AREA. SEE DRAWINGS.
 5. THE CONTRACTOR SHALL MAKE A DAILY REVIEW OF THE FILTER BERM TO ENSURE PROPER FUNCTION.
 6. WHEN RETAINED SEDIMENT HAS REACHED ½ THE HEIGHT OF THE BERM, IT SHALL BE REMOVED BY THE CONTRACTOR TO A LOCATION WHERE IT CANNOT ENTER DRAINAGE PATHWAYS AND CONTRIBUTE TO OFF-SITE SEDIMENTATION.
 7. THE BERM SHALL BE DISPERSED AS A SOIL AMENDMENT UPON COMPLETION OF THE PROJECT, AS DIRECTED BY THE OWNER OR ENGINEER.

CEDAR-GROVE COMPOSTING
 PHONE# 1-877-764-5748
 WEB SITE: HTTP://WWW.CEDAR-GROVE.COM/

RECORD DRAWING

PIONEER MEADOWS - PHASE II
TESC DETAILS
 SHEET: **C3.01**



ASPHALT CONCRETE PAVEMENT

CONCRETE SIDEWALK

CONCRETE ROOF FLOW

RAINWATER ROOF FLOW

PAVEMENT RUNOFF FLOW

PROPOSED MAJOR CONTOUR

PROPOSED MINOR CONTOUR

AREA DRAIN

35


36

9/32.5

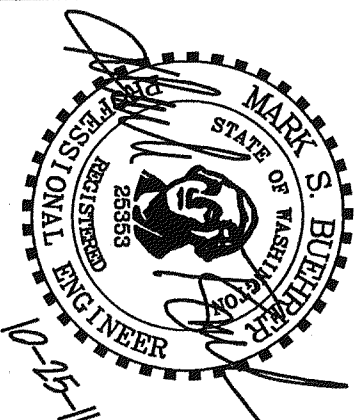
1. COORDINATE & FINALIZE DOWNSPOUT LOCATIONS IN FIELD.
2. SEE FENCING PLAN, SHEET CA.02
3. SEE ARCHITECTURAL PLANS FOR BUILDINGS, FOUNDATION, AND OUTDOOR CLASSROOM INFORMATION.

SITE AREA:	244,371 S.F. (5.61 AC.)
TOTAL IMPERVIOUS AREA:	41,525 S.F. (0.95 AC.)

				ENGINEER:	M. RANDALL	DATE:	10-25-11
				DESIGNED BY:	M. RANDALL	DATE:	10-25-11
				DRAWN BY:	J. FORD	DATE:	10-25-11
				CHECKED BY:		DATE:	
				PROJ. MGR:	M. RANDALL		
				PROJ. NO:	596PJM		
				FILE NAME:	596_PJL_Site.dwg		
NO.	DATE	BY	APPR.	REVISION	SCALE:	1" = 20'	



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PIONEER MEADOW
MONTESSORI
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2377 DOUGLAS ROAD
FERNDALE, WA

SITE & GRADING PLAN

RECORD DRAWING

SHEET

C4.00

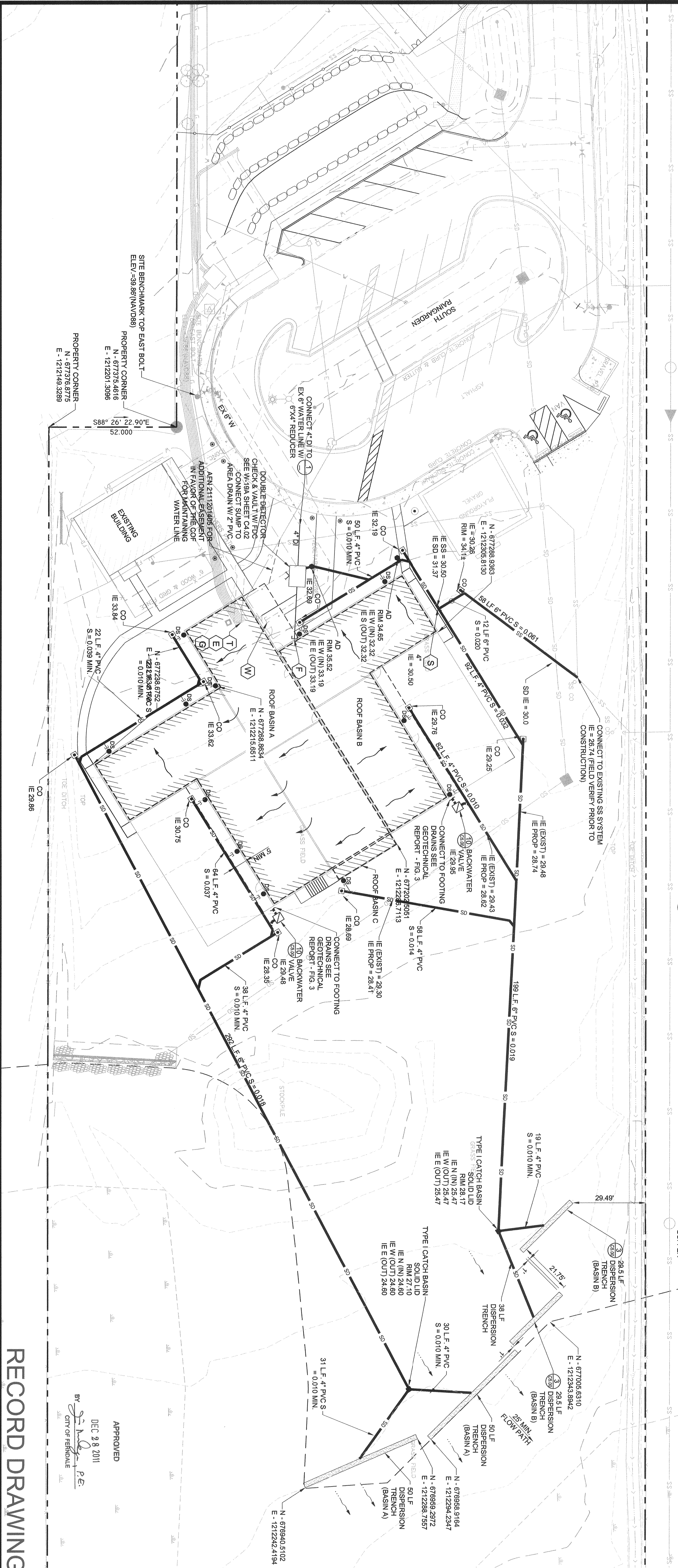
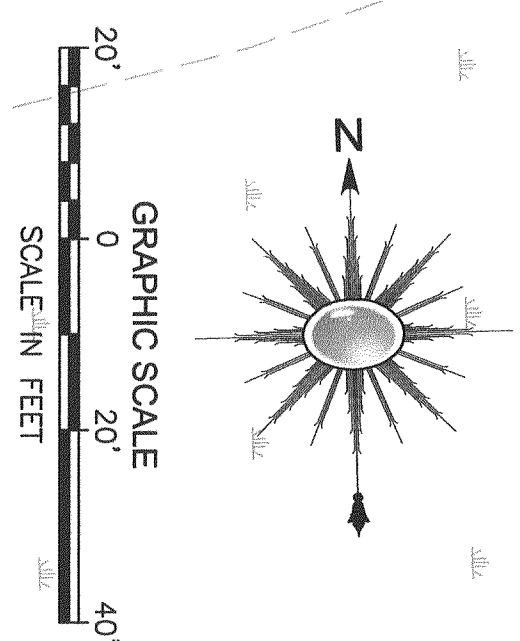
NOTES

1. COORDINATE & FINALIZE DOWNSPOT LOCATIONS IN FIELD.
2. SEE PAVING PLAN, SHEET C402
3. SEE ARCHITECTURAL PLANS FOR BUILDINGS, FOUNDATIONS, AND OUTDOOR CLASSROOM INFORMATION.
4. ALL DISPERSED TRENCHES SHALL BE CONSTRUCTED OUTSIDE OF THE WETLAND BUFFER
5. DISPERSED TRENCHES SHALL FOLLOW AS WELL AS POSSIBLE A PROPOSED CONTOUR.

- ROOF BASIN A: 68.7 S.F.
REQUIRED TOTAL DISPERSION TRENCH LENGTH: 98.24 LF
PROPOSED DISPERSION TRENCH LENGTH: 2 @ 50L F, EACH (100 L F, TOTAL)
- ROOF BASIN B: 3925 S.F.
REQUIRED TOTAL DISPERSION TRENCH LENGTH: 56.1 LF
PROPOSED DISPERSION TRENCH LENGTH: 2 @ 28.5 L F, EACH (59 L F, TOTAL)
- ROOF BASIN C: 142 S.F.
TO SPLASH BLOCK



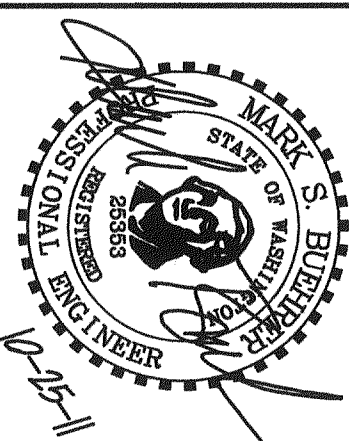
1 CONNECTION TO EX FIRE LINE
NTS



			ENGINEER:	M. RANDALL	DATE:	10-25-11
			DESIGNED BY:	M. RANDALL	DATE:	10-25-11
			DRAWN BY:	J. FORD	DATE:	10-25-11
			CHECKED BY:		DATE:	
			PROJ. MNGR:	M. RANDALL		
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			FILE NAME:	596_PJ_Site.dwg		
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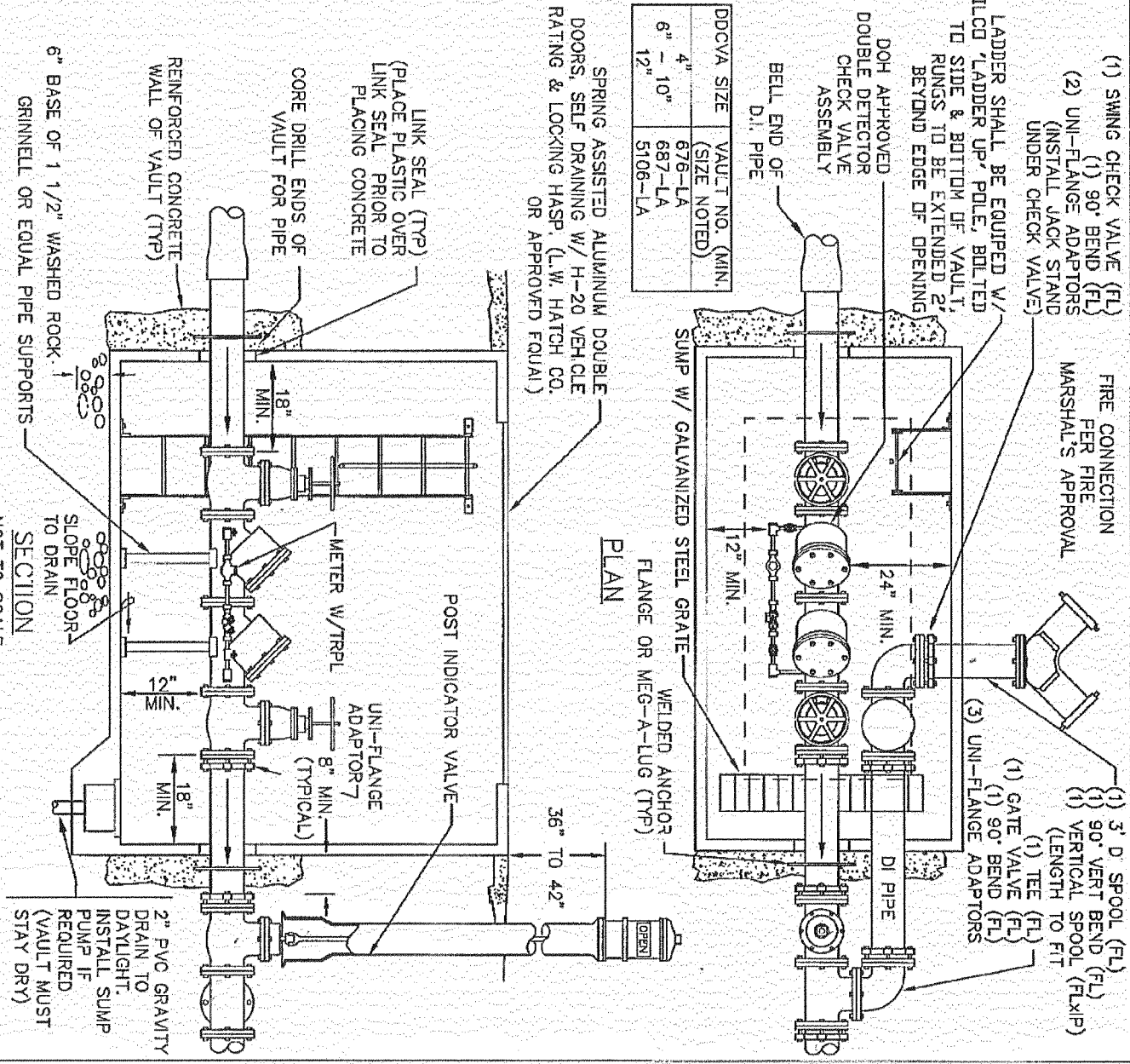
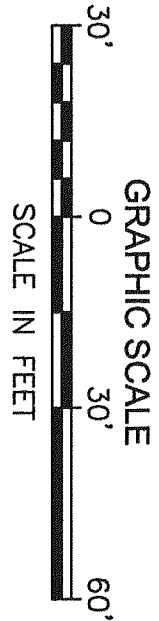
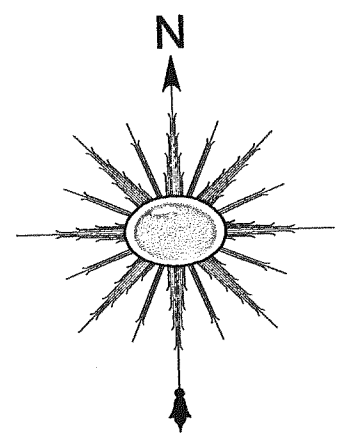


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**PIONEER MEADOWS
MONTESSORI
SCHOOL**
2377 DOUGLAS ROAD
FERNDALE, WA

PIONEER MEADOWS - PHASE II	SHEET:
UTILITY PLAN	C4.0

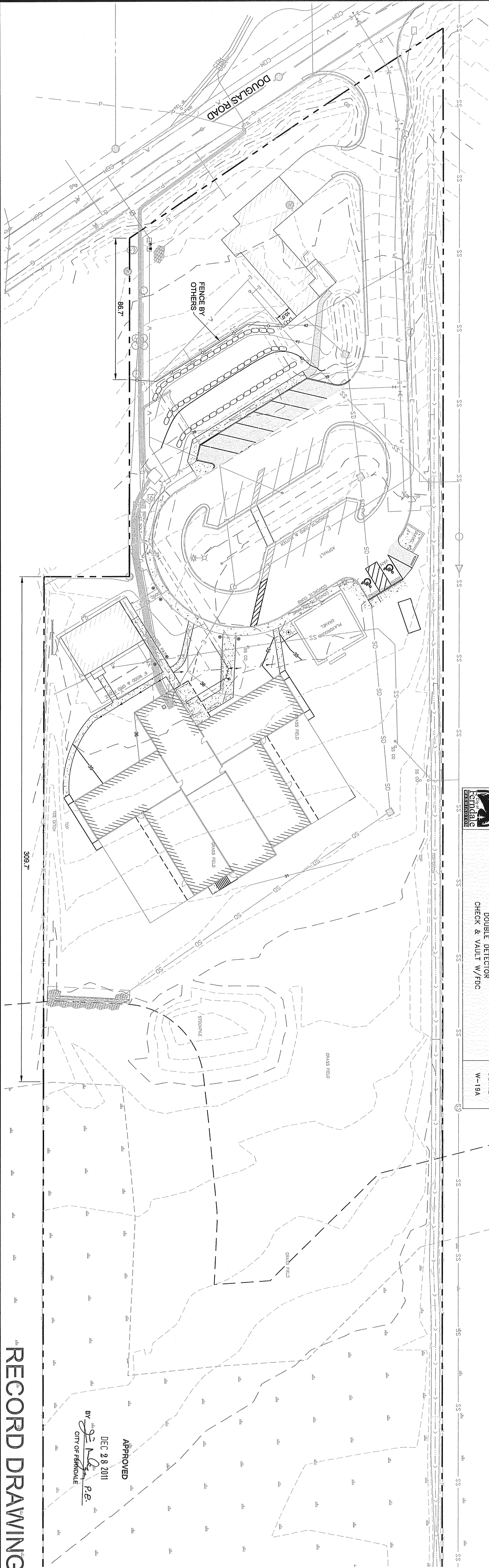


NOTE:
1. COVER SHALL NOT EXTEND MORE THAN 2" ABOVE GRADE WHEN VAULT IS NOT IN TRAFFIC AREA.
2. SLOPE PACKED AWAY FROM COVER WHEN VAULT IS IN TRAFFIC AREA.
3. 0.5% VALVE WHEN VAULT IS FULLY OPEN.
4. INSTALL ALARM SYSTEM AS REQUIRED BY FIRE DISTRICT.
5. VALVE SHALL BE AS MANUFACTURED BY UTILITY W/AL OR EQUAL AND
6. SHALL BE STRUCTURALLY DESIGNED FOR THE PROPOSED INSTALLATION.
7. WITH THE MINIMUM DIMENSIONS SHOWN IN THE DETAILS.

CITY OF FERNDALE
DOUBLE DETECTOR
CHECK & VAULT W/FDC

DETAIL
W-19A

2010



NO.	DATE	BY	APP.	REVISION
1	10-25-11	M. RANDALL		ENGINEER
2	10-25-11	J. FORD		DESIGNED BY
3	10-25-11	J. FORD		DRAWN BY
4	10-25-11	J. FORD		CHECKED BY
5	10-25-11	J. FORD		PROJ. MGR.
6	10-25-11	J. FORD		PROJ. NO.
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MARK S. BLOMBERG

REGISTERED PROFESSIONAL ENGINEER

NO. 00511

PIONEER MEADOWS

MONTESSORI

SCHOOL

2377 DOUGLAS ROAD

FERNDALE, WA

RECORD DRAWING

PIONEER MEADOWS - PHASE II

FENCING PLAN

SHEET: C4.02

APPROVED

DEC 28 2011

BY: J. FORD

P.B.

CITY OF FERNDALE

- 2. Downspout Dispersion Systems**
- Downspout dispersion systems are splash blocks or gravel-filled trenches, which serve to spread roof runoff over vegetated pervious areas. Dispersion attenuates peak flows by slowing entry of the runoff into the conveyance system, allows for some infiltration, and provides some water quality benefits.
1. A vegetated flowpath of at least 50 feet should be maintained between the discharge point and any property line, structure, steep slope, stream, wetland, lake, or other impervious surface. Sensitive area buffers may count toward flowpath lengths.
 2. A maximum of 700 square feet of roof area may drain to each splashblock or standard dispersion trench.
 3. A trench with a notched grade board may be used for larger areas.
 4. No erosion or flooding of downstream properties may result.
 5. Runoff discharged towards landslide hazard areas must be evaluated by a professional engineer with geotechnical expertise or a qualified geologist.
- Downspout dispersion systems may not be placed on or above slopes greater than 20% or above erosion hazard areas without evaluation by a professional engineer with geotechnical expertise or qualified geologist and jurisdiction approval.

Figure 4 Typical Downspout Dispersion Trench

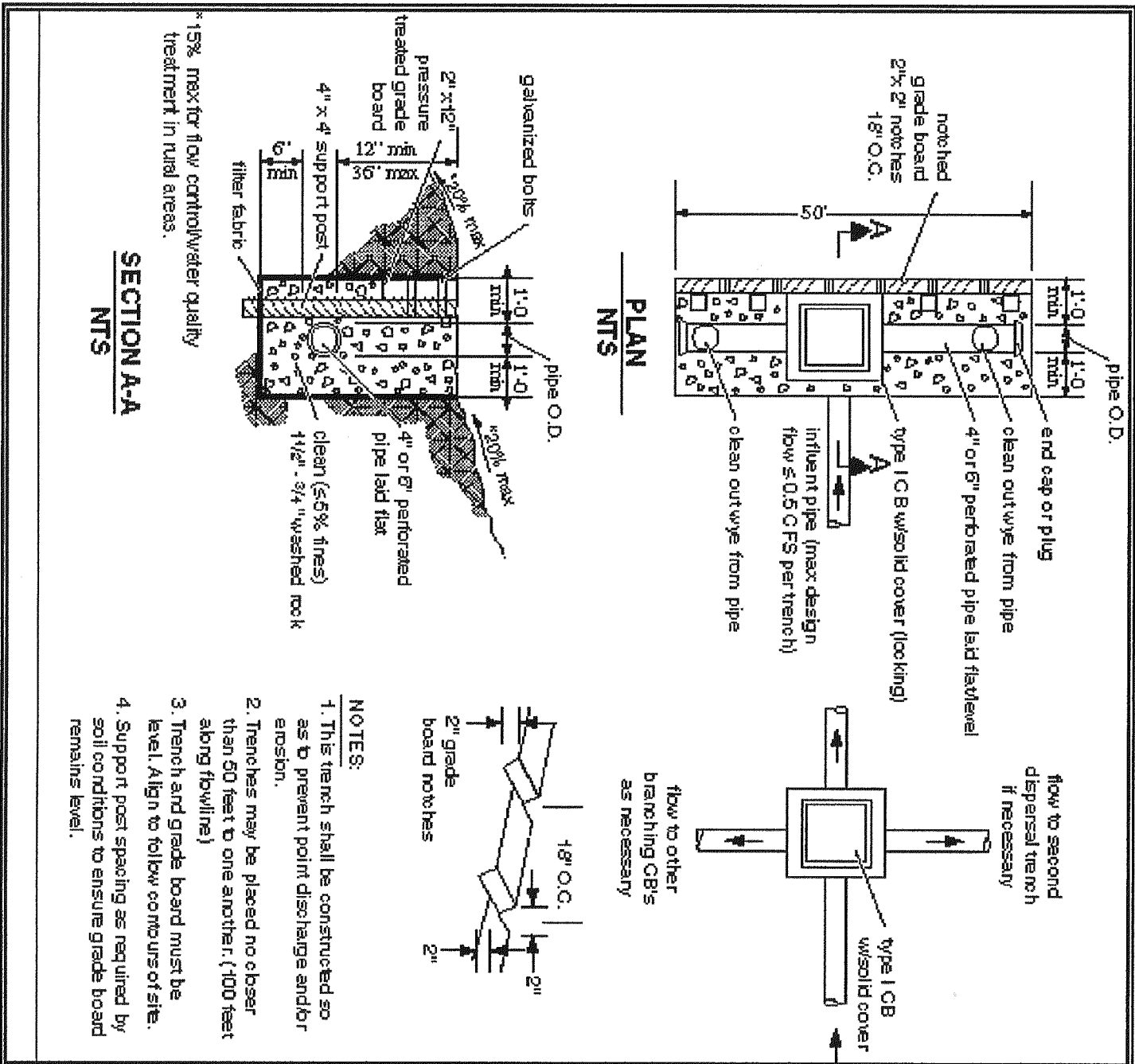
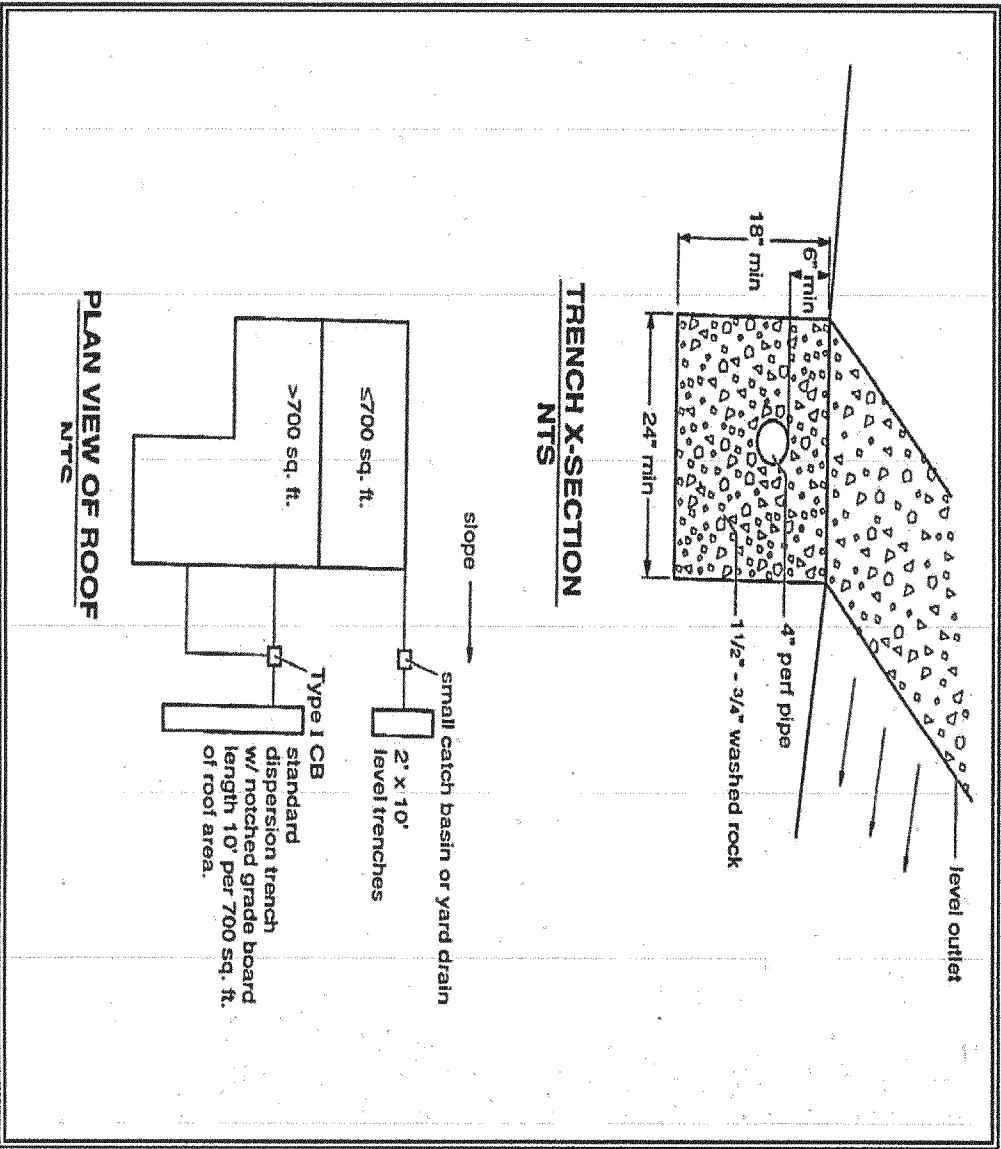
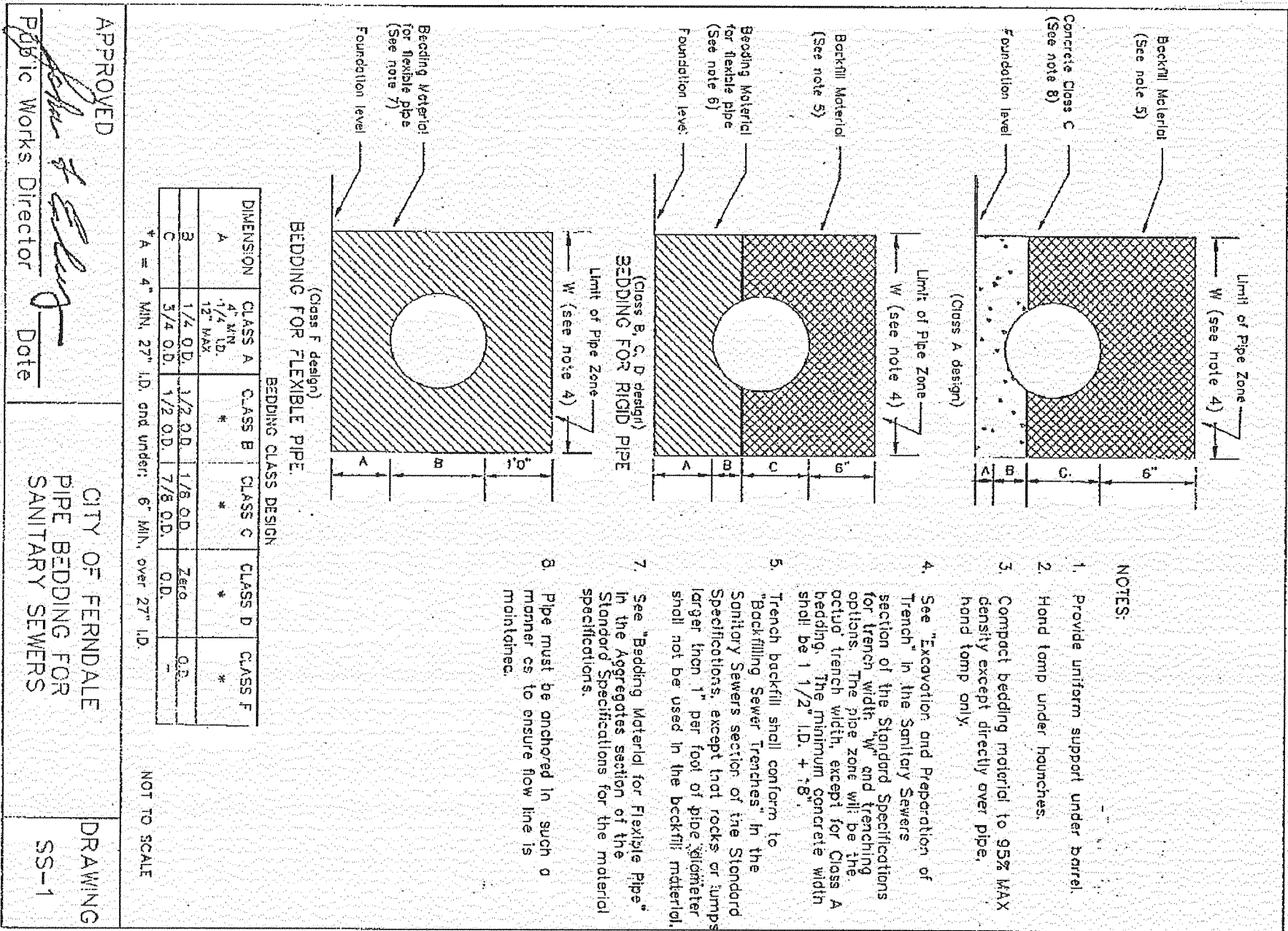
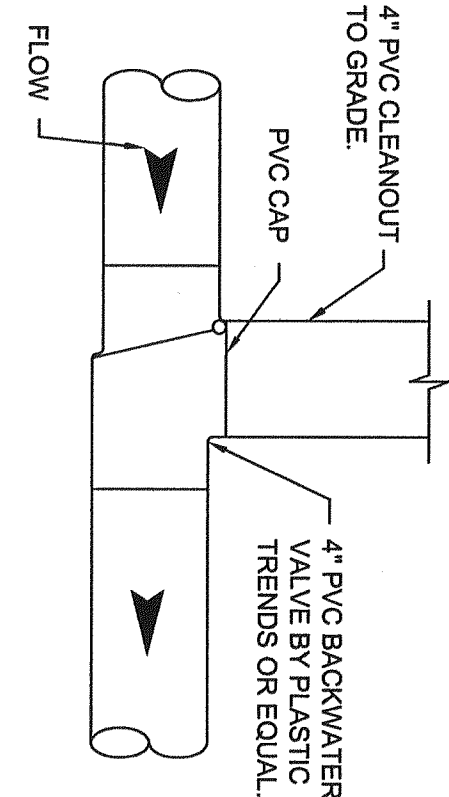
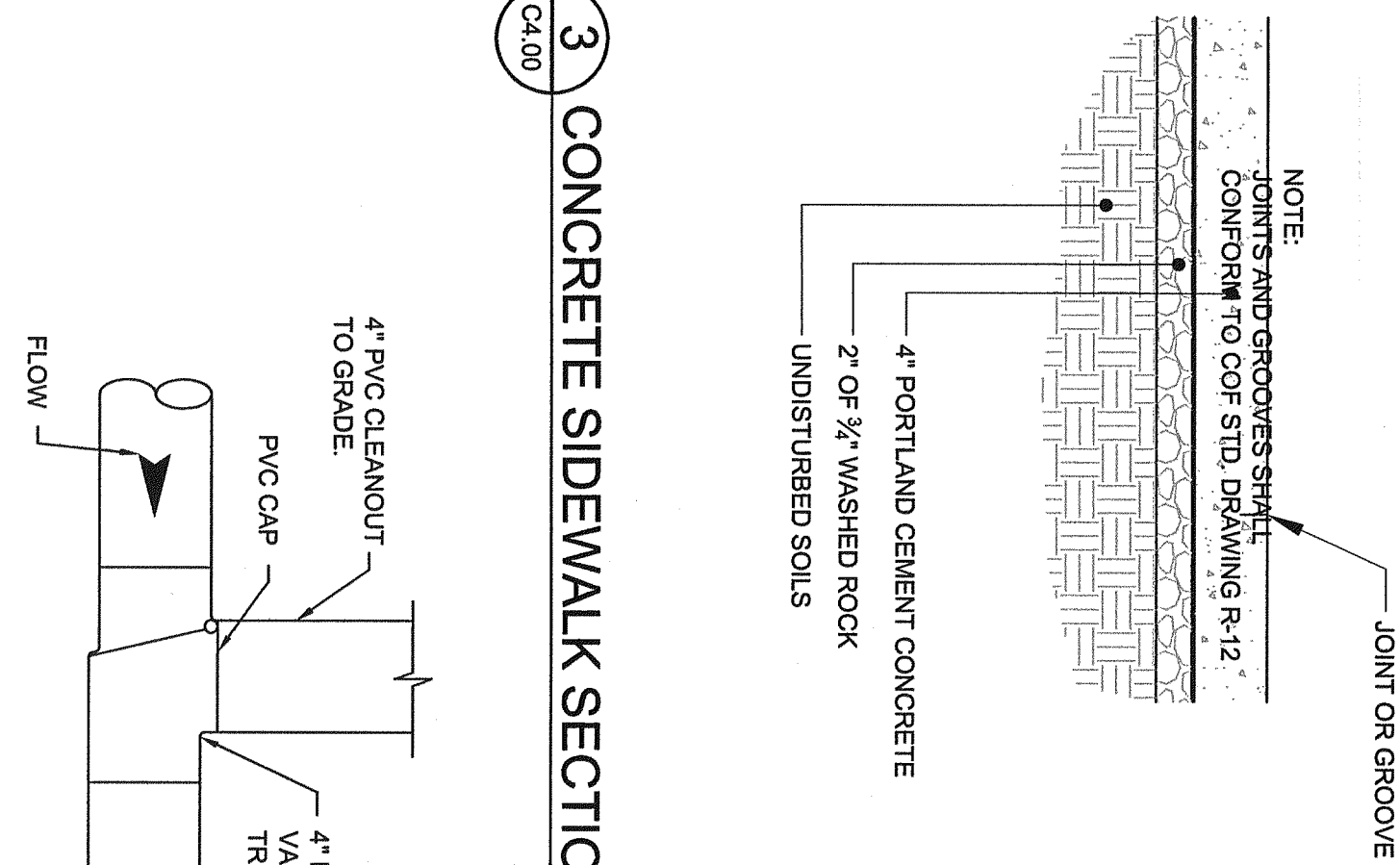


Figure 5 Standard Dispersion Trench with Notched Grade Board



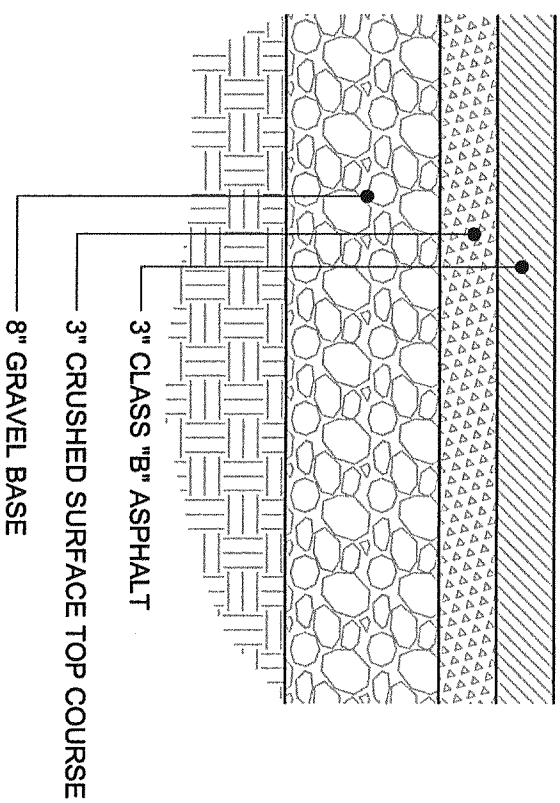
APPROVED
Public Works Director
Date
CITY OF FERNDALE
PIPE BEDDING FOR
SANITARY SEWERS
DRAWING
SS-1



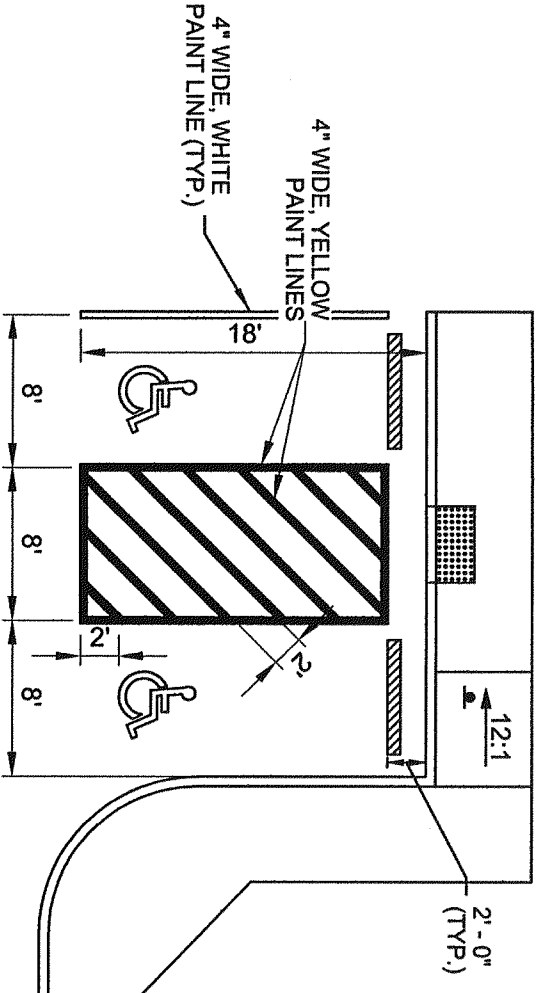
10 BACKWATER VALVE

3 CONCRETE SIDEWALK SECTION

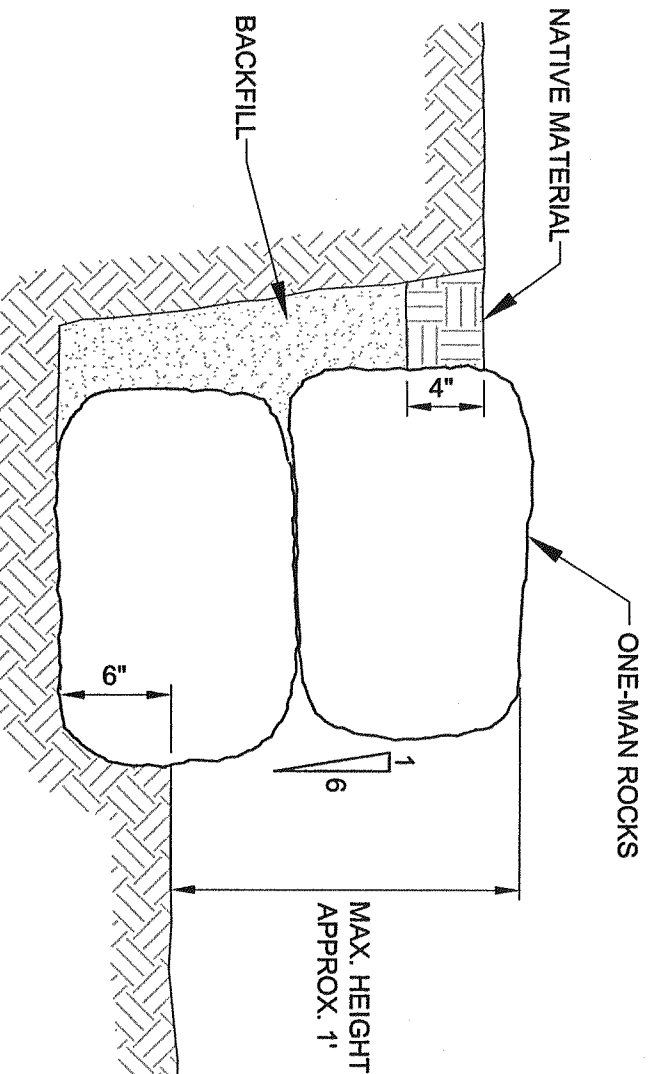
4 GRAVEL PATH SECTION



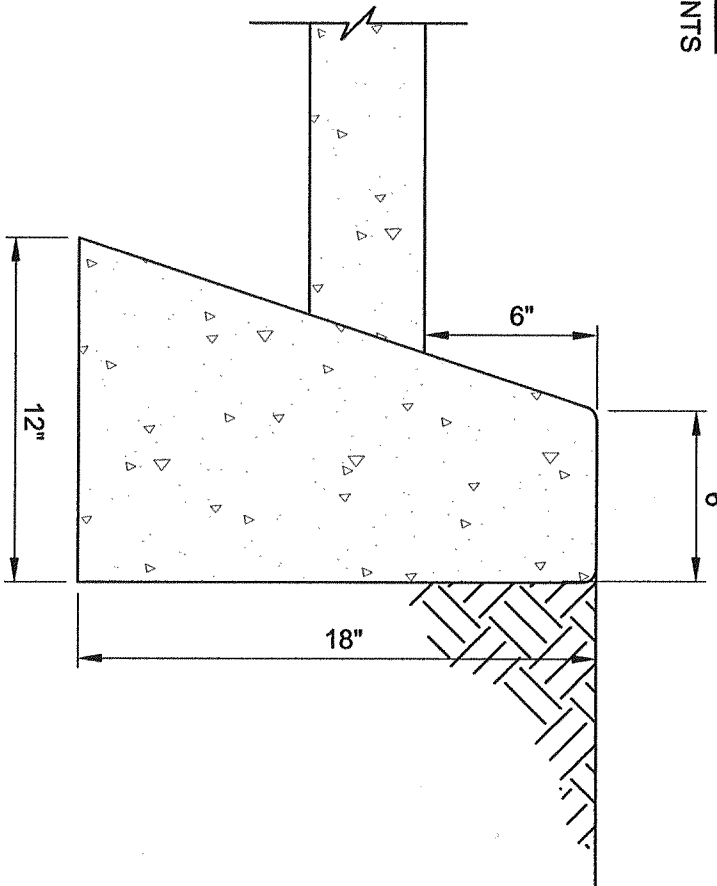
5 ASPHALT PAVEMENT SECTION



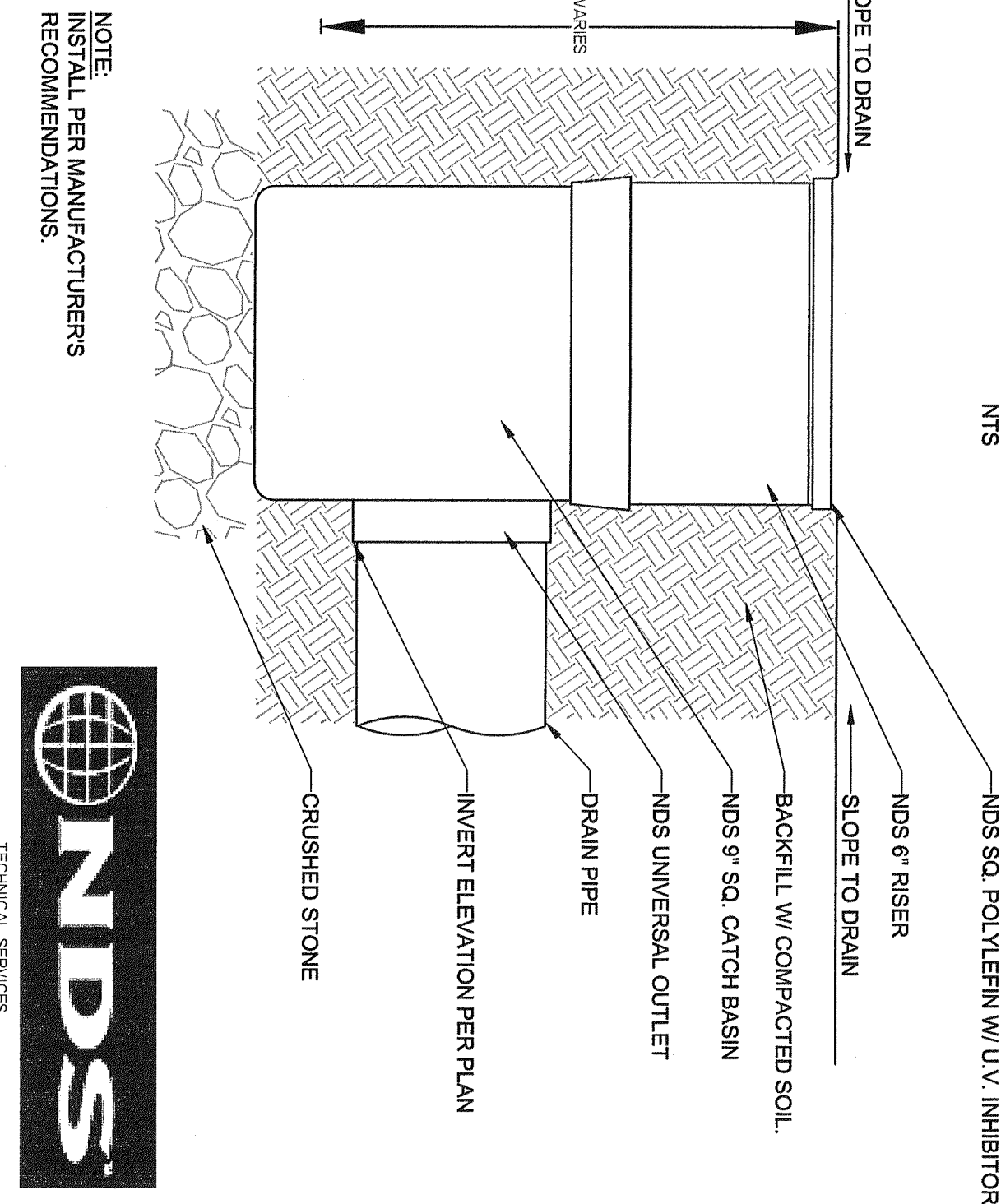
6 HANDICAP PARKING DETAIL



7 ROCKERY WALL



8 TYPE "E" BARRIER CURB



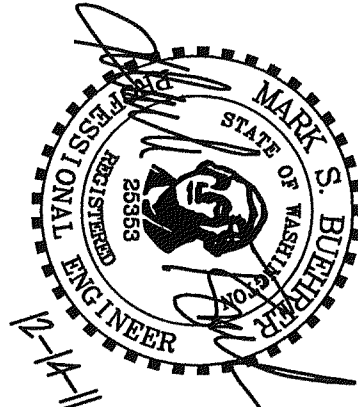
9 AREA DRAIN



TECHNICAL SERVICES
APPROVED
DEC 28 2011
BY
CITY OF FERNDALE

ENGINEER:	M. RANDALL	DATE:	10-25-11
DESIGNED BY:	M. RANDALL	DATE:	10-25-11
DRAWN BY:	L. FORD	DATE:	10-25-11
CHECKED BY:		DATE:	
PROJ. MGR:	M. RANDALL		
PROJ. NO.:	596PJM		
FILE NAME:	596_PD_Details.dwg		
SCALE:	N/A		

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