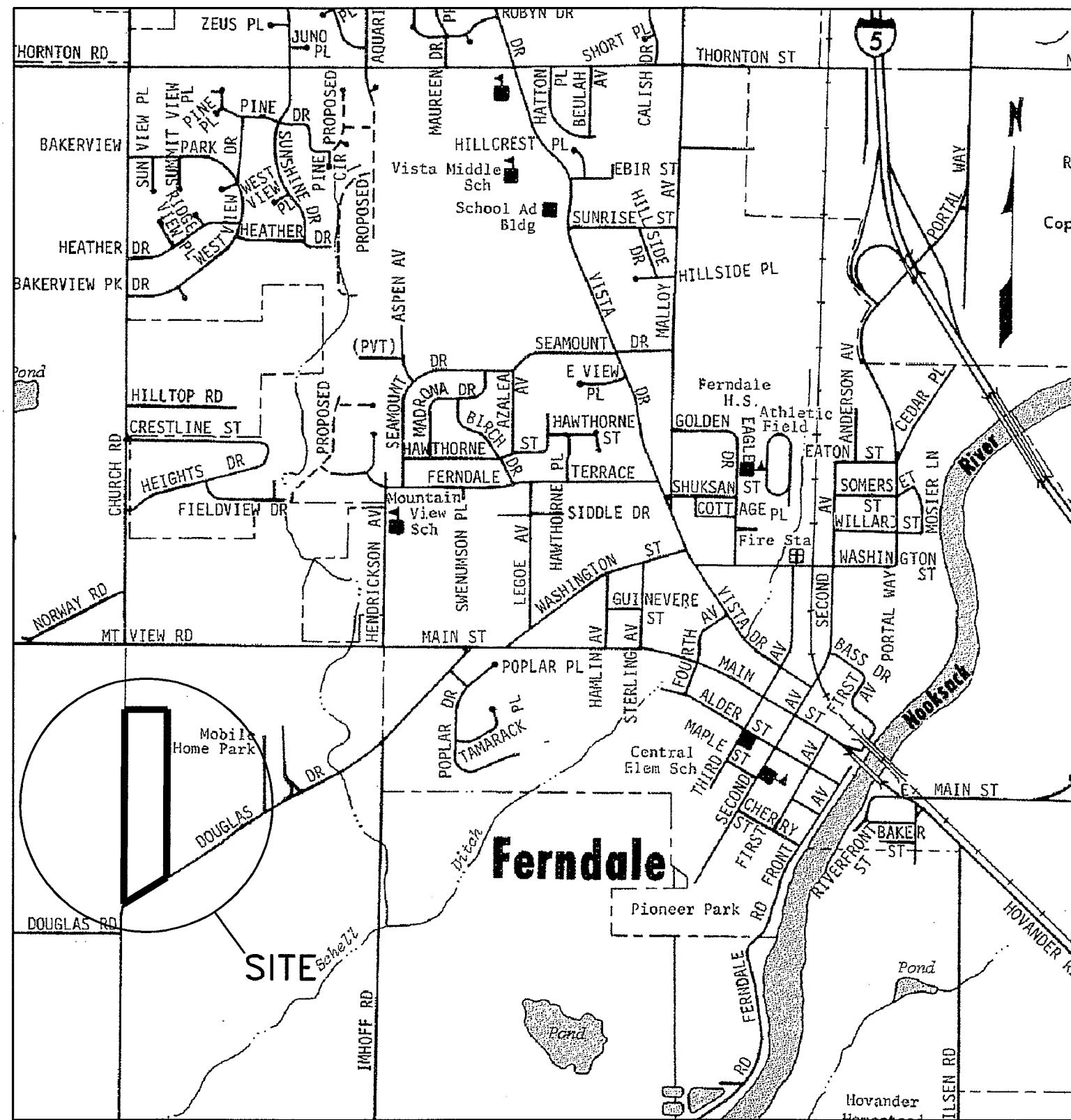


L:\Jepson Projects\2005\05055\dwg\PLANS\PHASE 2\As-Built\01-T1.DWG - eip - OCT 05, 2011 - 16:19:24

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CT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE A FINAL PAGE

EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS



VICINITY MAP
1"=1000'

LEGEND

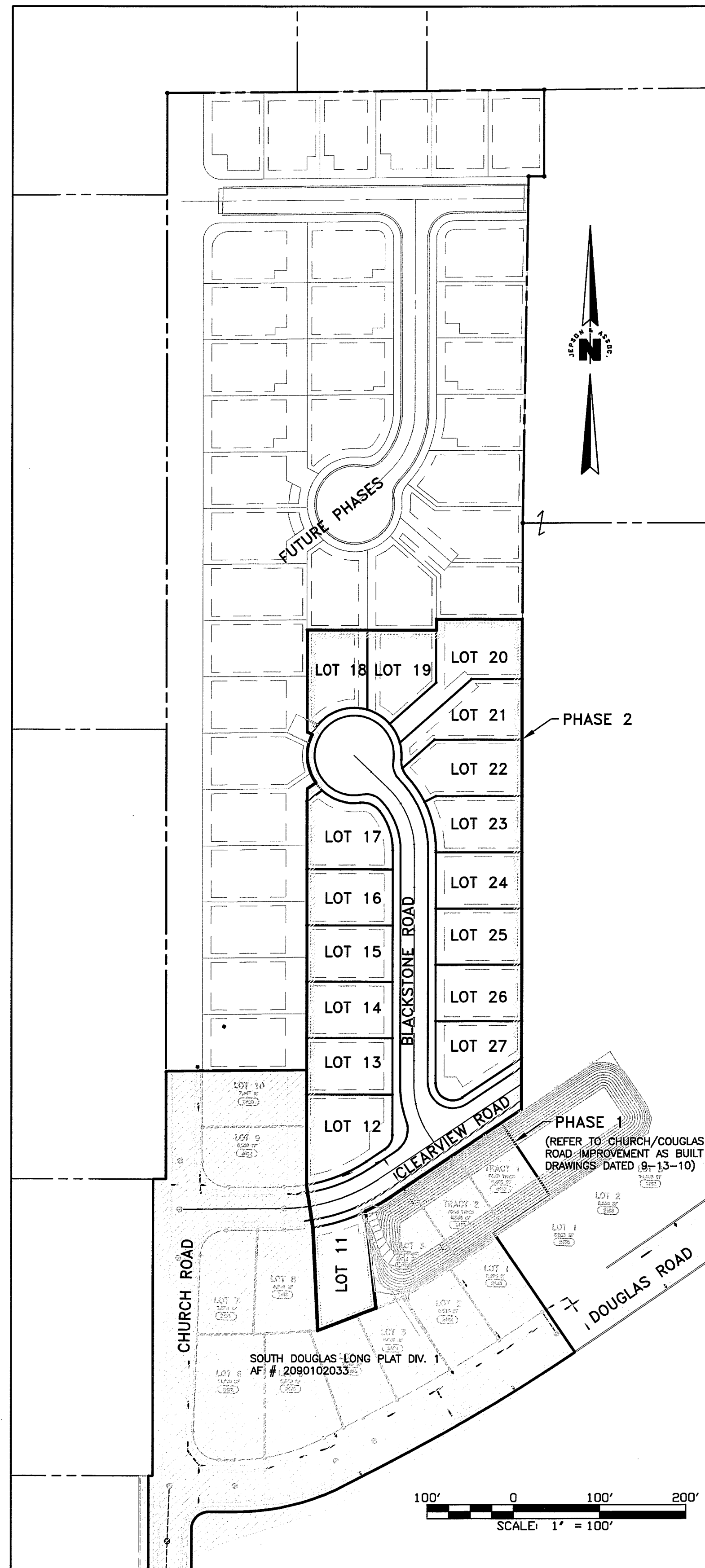
CL CENTERLINE	(N) NEW	(N) NOT TO SCALE	(N) MANHOLE
CO CLEANOUT	NTS NOT TO SCALE	(E) CATCH BASIN	(E) CATCH BASIN
(E) EXISTING	PCC PORTLAND CEMENT CONCRETE	(E) WATER VALVE	(E) WATER VALVE
EP EDGE OF PAVEMENT	PL PROPERTY LINE	(E) FIRE HYDRANT	(E) FIRE HYDRANT
FD FOUND	POC POINT OF CONNECTION	(E) WATER METER	(E) WATER METER
FF FINISH FLOOR	PVC POLYVINYL CHLORIDE	(E) STREET LIGHT	(E) STREET LIGHT
FG FINISH GRADE	RBR REBAR	(E) POWER VAULT	(E) POWER VAULT
FL FLOWLINE	RCP REINFORCED CONCRETE PIPE	(E) POWER POLE	(E) POWER POLE
HB HOSEBIB	SD STORM DRAIN	(E) MONUMENT PER COF DETAIL S-2	(E) MONUMENT PER COF DETAIL S-2
HP HIGH POINT	SS SANITARY SEWER	(E) MONUMENT PER COF DETAIL S-1	(E) MONUMENT PER COF DETAIL S-1
INV INVERT	TC TOP OF CURB	(E) REBAR AND PLASTIC CAP	(E) REBAR AND PLASTIC CAP
LF LINEAR FEET	W WATER, WEST		
LP LIGHT POST	WM WATER METER		
CRN CROWN OF PIPE	TIP TOP OF IRON PIPE		
PVI POINT OF VERT. INT.	BIP BOTTOM OF IRON PIPE		
SF SQUARE FEET	VC VERTICAL CURVE		
K RATE OF CURVATURE	STA STATION		
L LENGTH	EVCS END VERT. CURVE STATION		
AD ABSOLUTE GRADE DIFFERENCE IN PERCENT	EVCE END VERT. CURVE ELEV.		
ELEV ELEVATION	SDCO STORM DRAIN CLEAN OUT		
E EAST	N NORTH		
S SOUTH	Δ DELTA		
BVCE BEGIN VERT. CURVE ELEV.	R RADIUS		
UNO UNLESS NOTED OTHERWISE	BVCS BEGIN VERT. CURVE STATION		

PROPOSED STORM DRAIN	EXISTING AERIAL TELEPHONE LINES
EXISTING STORM DRAIN	EXISTING AERIAL POWER LINE
PROPOSED SEWER	EXISTING BURIED POWER LINE
EXISTING SEWER	
EXISTING SEWERLINE	
PROPOSED WATERLINE	
EXISTING WATERLINE	
(N) RETAINING WALL	
(E) RETAINING WALL	

CESCL
CERTIFIED EROSION AND SEDIMENT CONTROL LEAD
TONY PETCH, (ECO # 3-10116609)

DOUGLAS LONG PLAT PHASE 2

CONSTRUCTION DRAWINGS
A PTN. OF THE W 1/2 OF THE NW 1/4 OF SEC. 30, TWP. 39N, R2E OF W.M.
CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON



UTILITY LOCATES
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

6	5	4	3	2	1
7	8	9	10	11	12
18	17	16	15	14	13
19	20	21	22	23	24
30	29	28	27	26	25
31	32	33	34	35	36

SECTION 30
TOWNSHIP 39 NORTH
RANGE 2 EAST

CIVIL IMPROVEMENTS DATA

OWNERS/DEVELOPERS: SOUTH DOUGLAS, LLC

CONSULTANT: RONALD T. JEPSON & ASSOCIATES
222 GRAND AVE., SUITE 100
BELLINGHAM, WASHINGTON 98225
(360) 733-5760
FAX: 360-647-8939

SURVEY EQUIPMENT & PROCEDURE

THIS SURVEY WAS COMPLETED AND ACCOMPLISHED BY FIELD
TRAVERSE USING A TOPCON GPT-8200A SERIES TOTAL STATION ON 10/2005.
THE ACCURACY MEETS OR EXCEEDS THE STANDARDS CONTAINED IN WAC 331-130-090.

BASIS OF BEARINGS

THAT RECORD OF SURVEY FILED UNDER WHATCOM COUNTY A.F. NO. 931119056

PROJECT BENCHMARK

FERN 07 COORDINATE
NORTH 678456.13
EASTING 1211031.14
ELEV 147.15

FERN 10 COORDINATE
NORTH 673934.78
EASTING 1210873.19
ELEV 8.30

SHEET INDEX

T-1	TITLE SHEET
B-1	EXISTING BOUNDARY CONDITIONS
SL-1	SITE LAYOUT
TESC-1	TESC PLAN
RD-1	ROAD AND DRAINAGE PLAN
RD-2	ROAD AND DRAINAGE PLAN
SS-1	SANITARY SEWER AND WATER PLAN
SS-2	SANITARY SEWER AND WATER PLAN
D-1	CONSTRUCTION DETAILS
D-2	CONSTRUCTION DETAILS
D-3	CONSTRUCTION DETAILS
D-4	CONSTRUCTION DETAILS
GN-1	GENERAL NOTES

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "DOUGLAS LONG PLAT PHASE 2" HAVE BEEN
INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE
BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDAL DEVELOPMENT STANDARDS, THE
CITY OF FERNDAL MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN,
AND STANDARD ENGINEERING PRACTICE."

Ronald T. Jepson, P.E., L.S.
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATION

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING
MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS
DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: JAN 13, 2012."

Ronald T. Jepson, P.E., L.S.
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED

JAN 13 2012

BY: [Signature]
CITY OF FERNDAL

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

AS-BUILT

DESIGNED BY	DMK
DRAWN BY	AH
DATE:	
RONALD T. JEPSON	ENGINEER
RCE:	9361

ASBUILT
FOR RECORD

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.JEPSONENGINEERING.COM

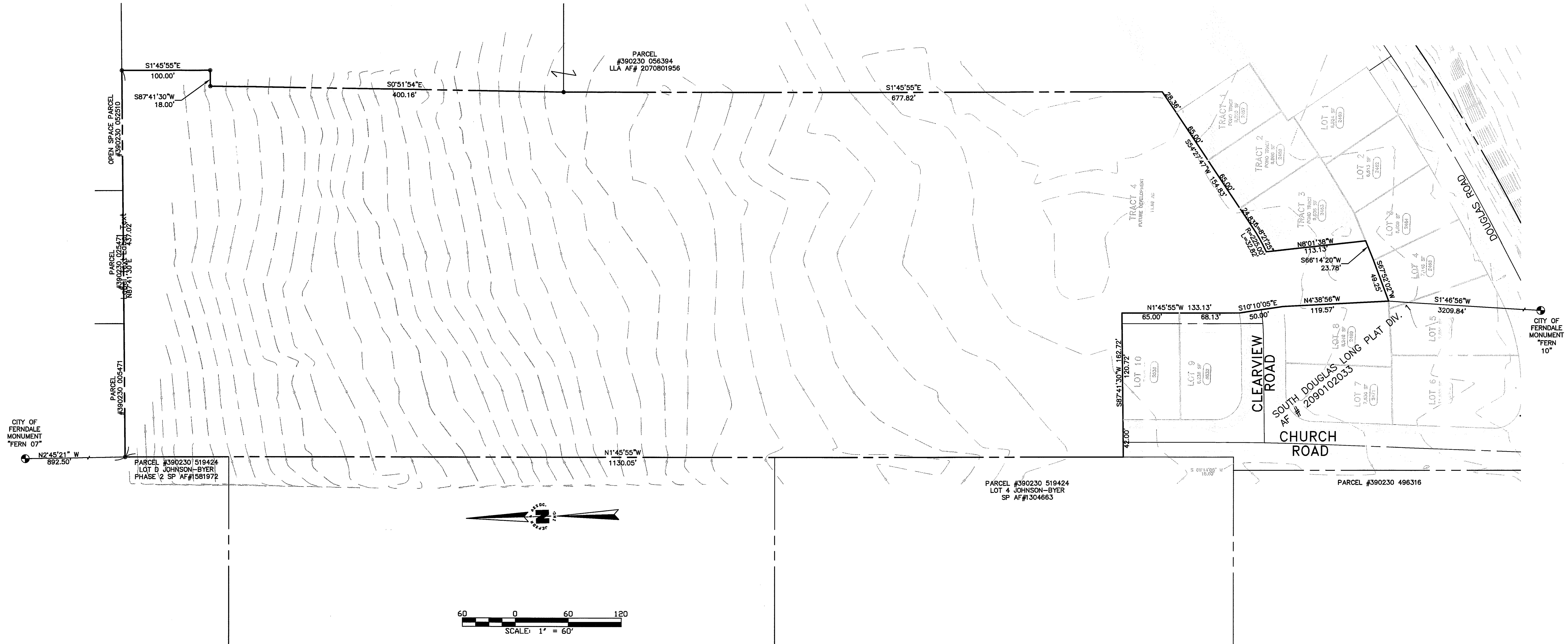
PREPARED FOR: SOUTH DOUGLAS LLC
TITLE SHEET
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDAL
COUNTY OF WHATCOM, WASHINGTON

SCALE:	AS SHOWN
DATE:	10/5/11
SHEET:	T-1
WO:	05055

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A PTN. OF THE W 1/2 OF THE NW 1/4 OF SEC. 30, TWP. 39N, R2E OF W.M.
CITY OF FERNDAL, WHATCOM COUNTY, WASHINGTON

AS-BUILT)



ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "DOUGLAS LONG PLAT PHASE 2" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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THE ACCURACY MEETS OR EXCEEDS THE STANDARDS CONTAINED IN WAC 331-130-090.

BASIS OF BEARINGS

THAT RECORD OF SURVEY FILED UNDER WHATCOM COUNTY A.F. NO. 931119056

VERTICAL DATUM

NGVD29 PER CITY OF FERNDALE MAPPING PROGRAM

PROJECT BENCHMARK

FERN 07 COORDINATE
NORTH 679459.13
EASTING 1211031.14
ELEV 147.15

FERN 10 COORDINATE
NORTH 673934.78
EASTING 1210873.19
ELEV 8.30

6	5	4	3	2	
7	8	9	10	11	1
18	17	16	15	14	1
19	20	21	22	23	2
30	29	28	27	26	2
31	32	33	34	35	3

SECTION 30
TOWNSHIP 39 NORTH
RANGE 2 EAST

APPROVED

JAN 13 2012
BY J. Miller
CITY OF FERDALE

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

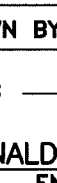
REVISIONS

DESIGNED BY	DMK
DRAWN BY	AH

E: _____

RONALD T. JEPSON
ENGINEER

9361



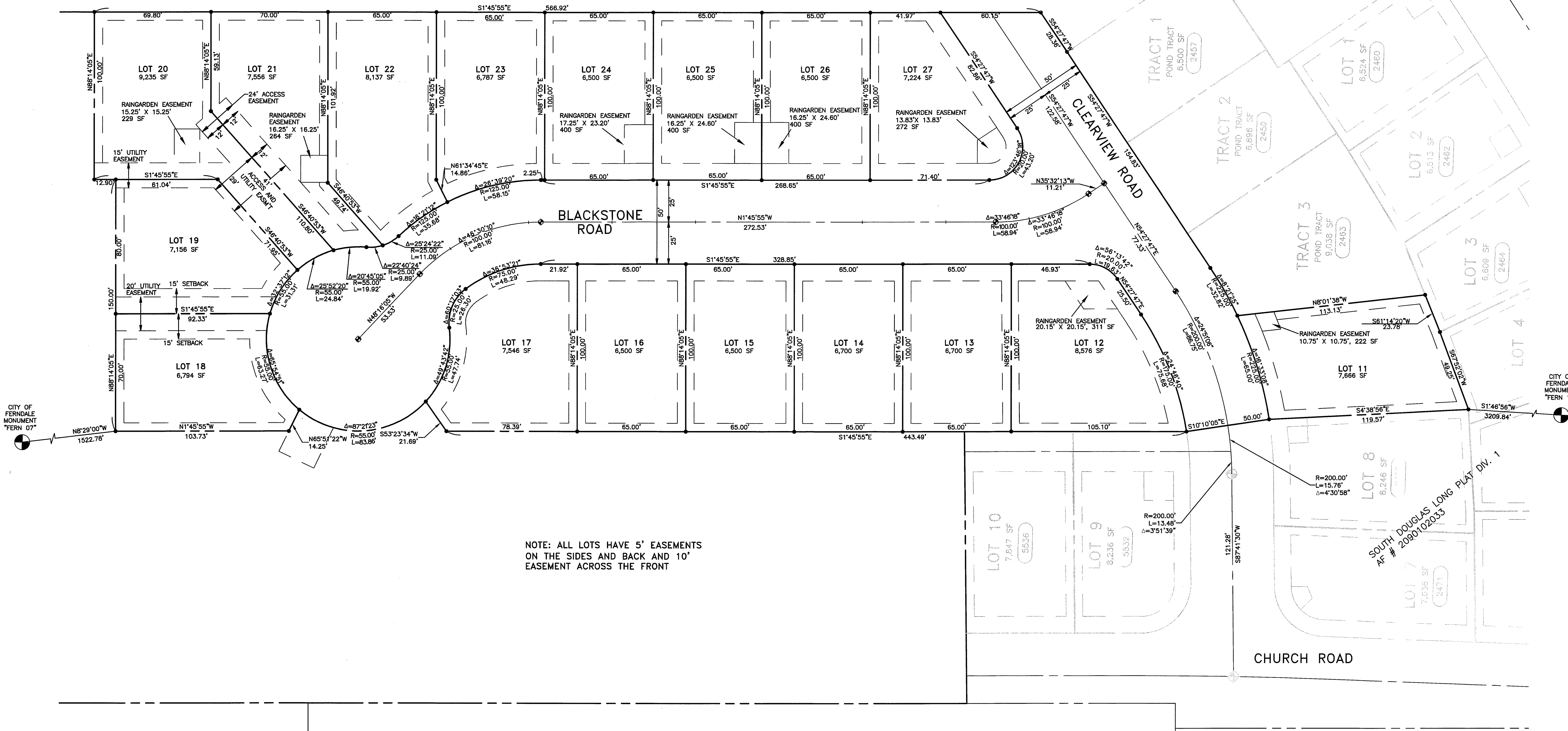
EXP 25/11/12

**ASBUILT
FOR RECORD**

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.JEPSONENGINEERING.COM

EXISTING BOUNDARY CONDITIONS
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE
COUNTY OF WHATCOM WASHINGTON

SCALE:	AS SHOWN
DATE:	10/5/11
SHEET:	B-1
WO:	05055



SURVEYOR'S CERTIFICATION

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED

JAN 13 2012
BY: *[Signature]*
CITY OF FERDALE

UTILITY LOCATES
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

AS-BUILT

REVISIONS	
DESIGNED BY	DMK
DRAWN BY	AH
DATE:	
RONALD T. JEPSON ENGINEER	
RCE:	9361

ASBUILT FOR RECORD

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.JEPSONENGINEERING.COM

PREPARED FOR: SOUTH DOUGLAS, LLC

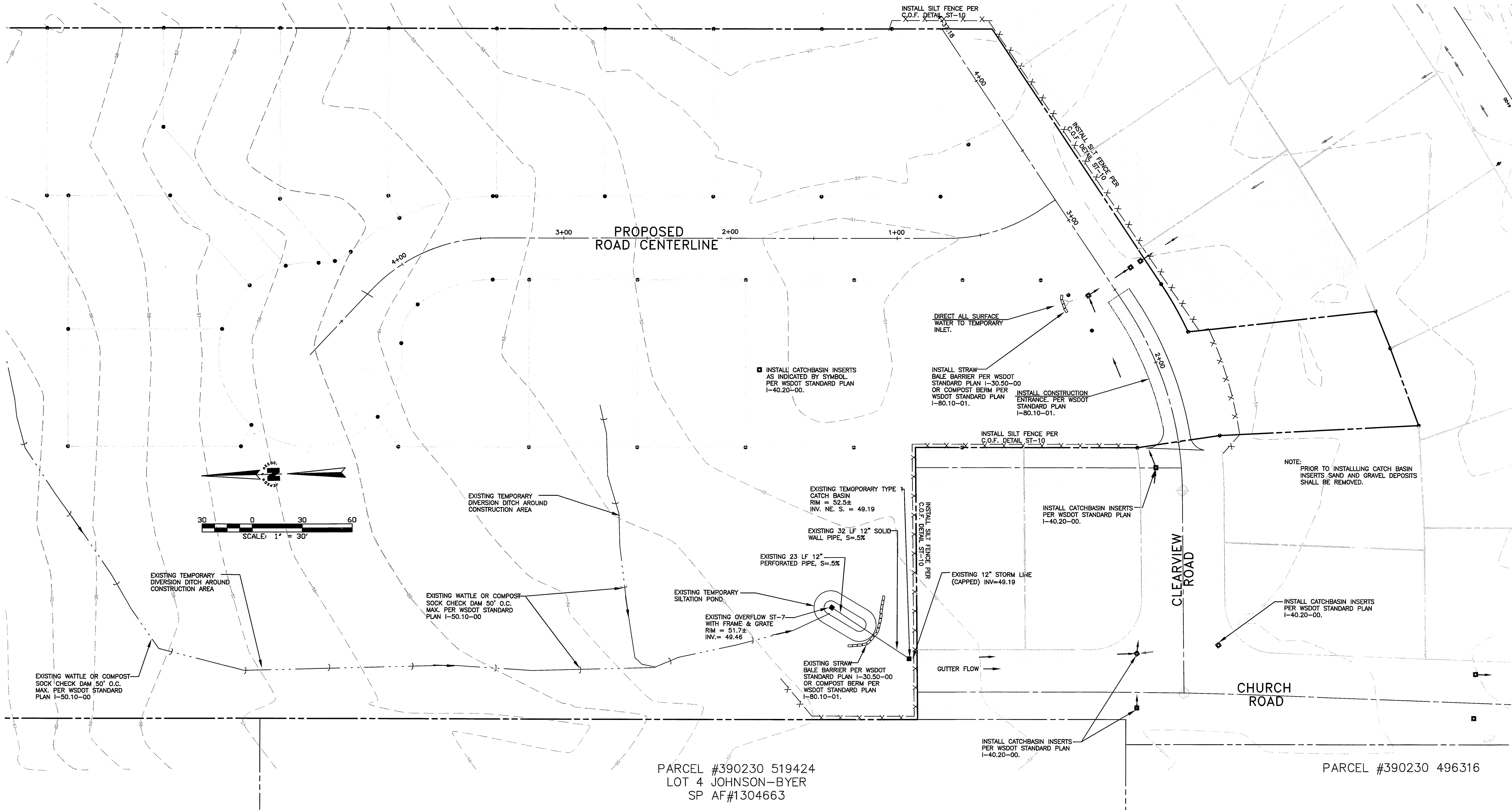
SITE LAYOUT
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERDALE

COUNTY OF WHATCOM.
WASHINGTON

SCALE:	AS SHOWN
DATE:	10/5/11
SHEET:	SL-1
WO:	05055

L:\Jepson Projects\2005\05055\dwg\PLANS\TSC-01.DWG - childreth - MAY 11, 2011

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NOTE: SEE SHEET GN-1 FOR EROSION CONTROL NOTES AND FINAL SITE RESTORATION NOTES.

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

SURVEYOR'S CERTIFICATION

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CERTIFICATE NO. 9361

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED
JAN 13 2012
BY *[Signature]*
CITY OF FERNDALE

UTILITY LOCATES
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

SCALE: AS SHOWN
DATE: 10/5/11
SHEET: TESC-1
WO: 05055

PREPARED FOR: SOUTH DOUGLAS, LLC
TEMPORARY EROSION SEDIMENT CONTROL PLAN
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE
COUNTY OF WHATCOM, WASHINGTON

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C - BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.JEPSONENGINEERING.COM

ASBUILT
FOR RECORD

REVISIONS
DESIGNED BY: DMK
DRAWN BY: AH
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 9361
EXP 05/12

AS-BUILT

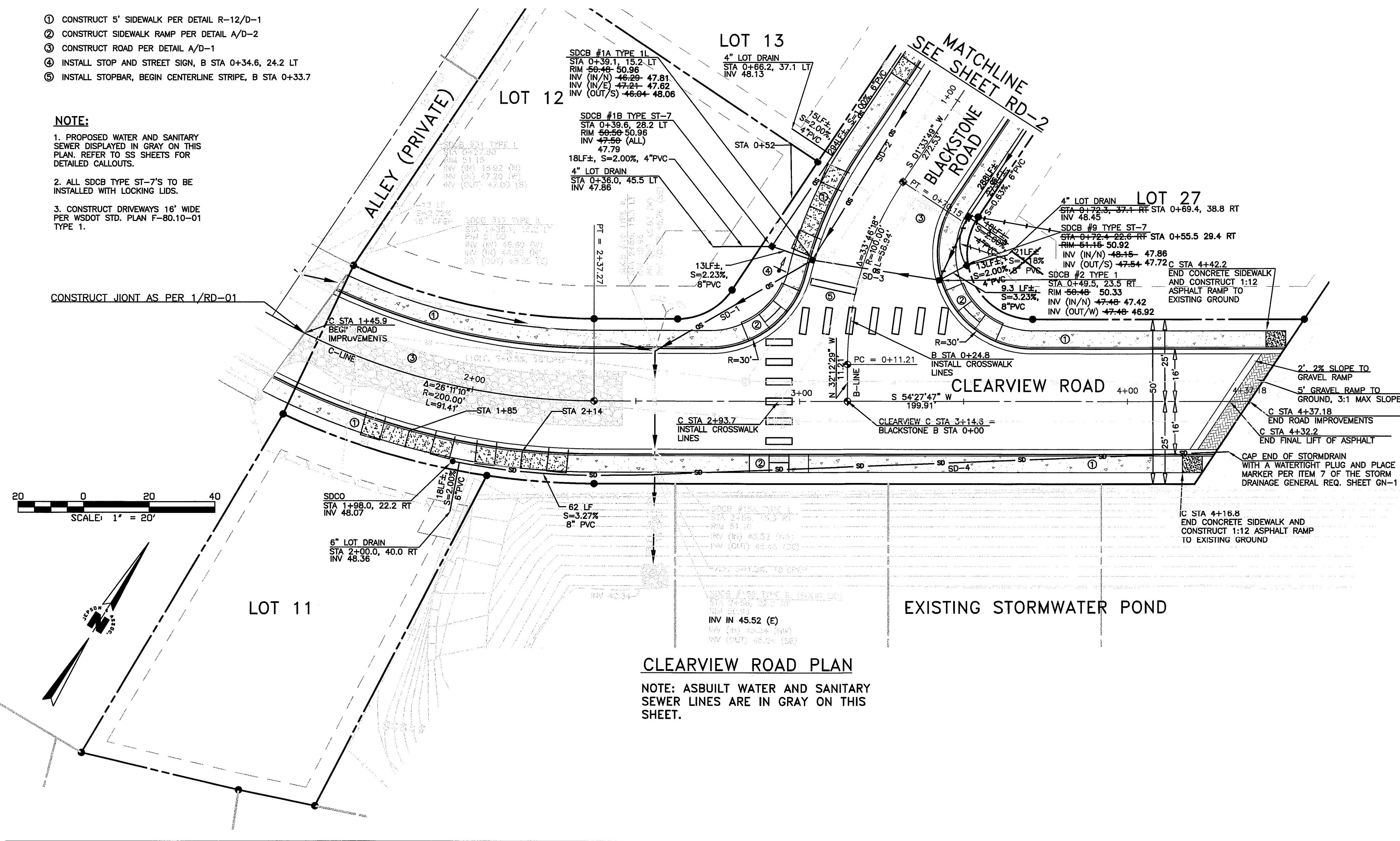
00403.004 2.09.12 SH

1. CONSTRUCT 5' SIDEWALK PER DETAIL R-12/D-1
2. CONSTRUCT SIDEWALK RAMP PER DETAIL A/D-2
3. CONSTRUCT ROAD PER DETAIL A/D-1
4. INSTALL STOP AND STREET SIGN, B STA 0+34.6, 24.2 LT
5. INSTALL STOPBAR, BEGIN CENTERLINE STRIPE, B STA 0+33.7

NOTE:

1. PROPOSED WATER AND SANITARY SEWER DISPLAYED IN GRAY ON THIS PLAN. REFER TO SS SHEETS FOR DETAILED CALLOUTS.
2. ALL SDCB TYPE ST-7'S TO BE INSTALLED WITH LOCKING LIDS.
3. CONSTRUCT DRIVEWAYS 16' WIDE PER WSDOT STD. PLAN F-80.10-01 TYPE 1.

CONSTRUCT JOINT AS PER 1/RD-01



CLEARVIEW ROAD PLAN

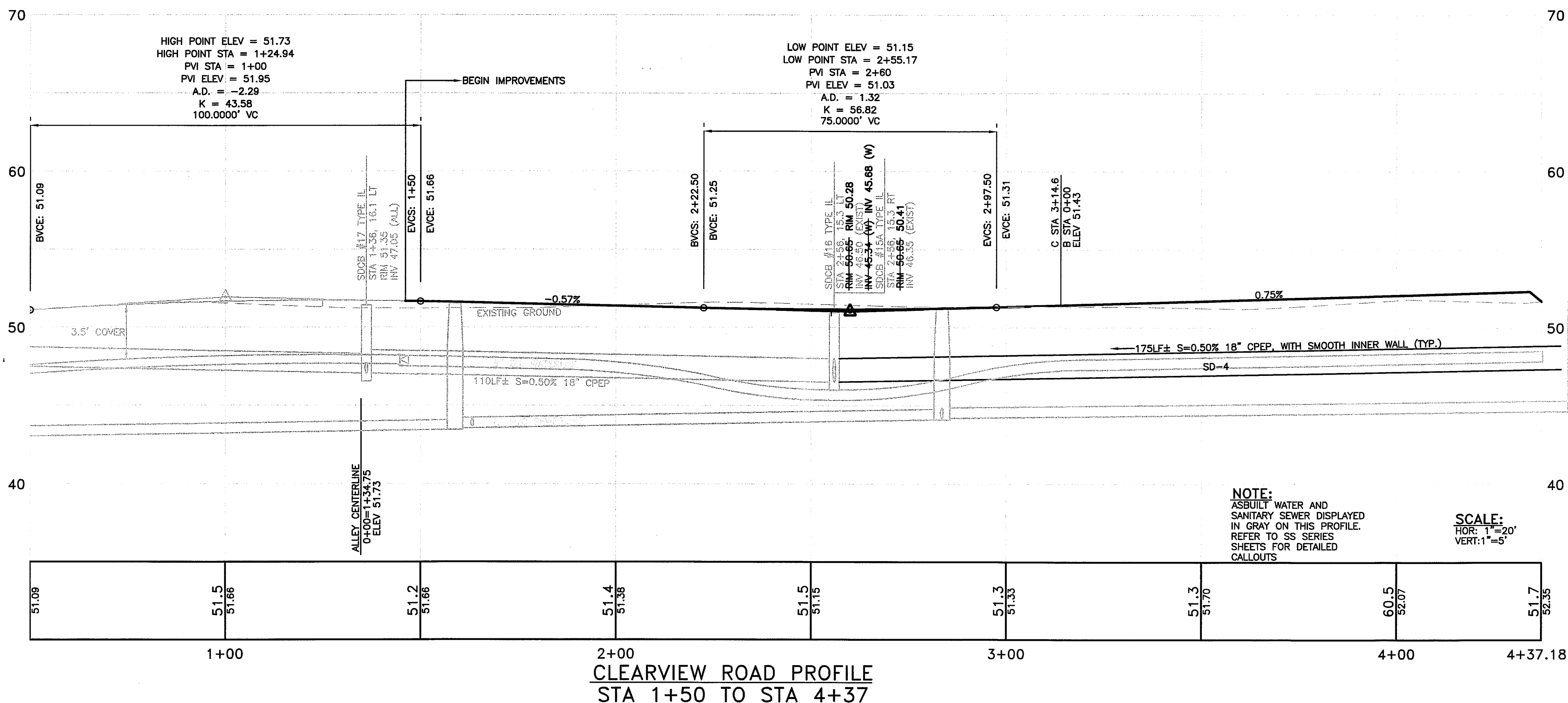
NOTE: AS-BUILT WATER AND SANITARY SEWER LINES ARE IN GRAY ON THIS SHEET.

EXISTING STORMWATER POND

SEE MATCHLINE
SEE SHEET RD-2

CLEARVIEW ROAD

CLEARVIEW ROAD PROFILE



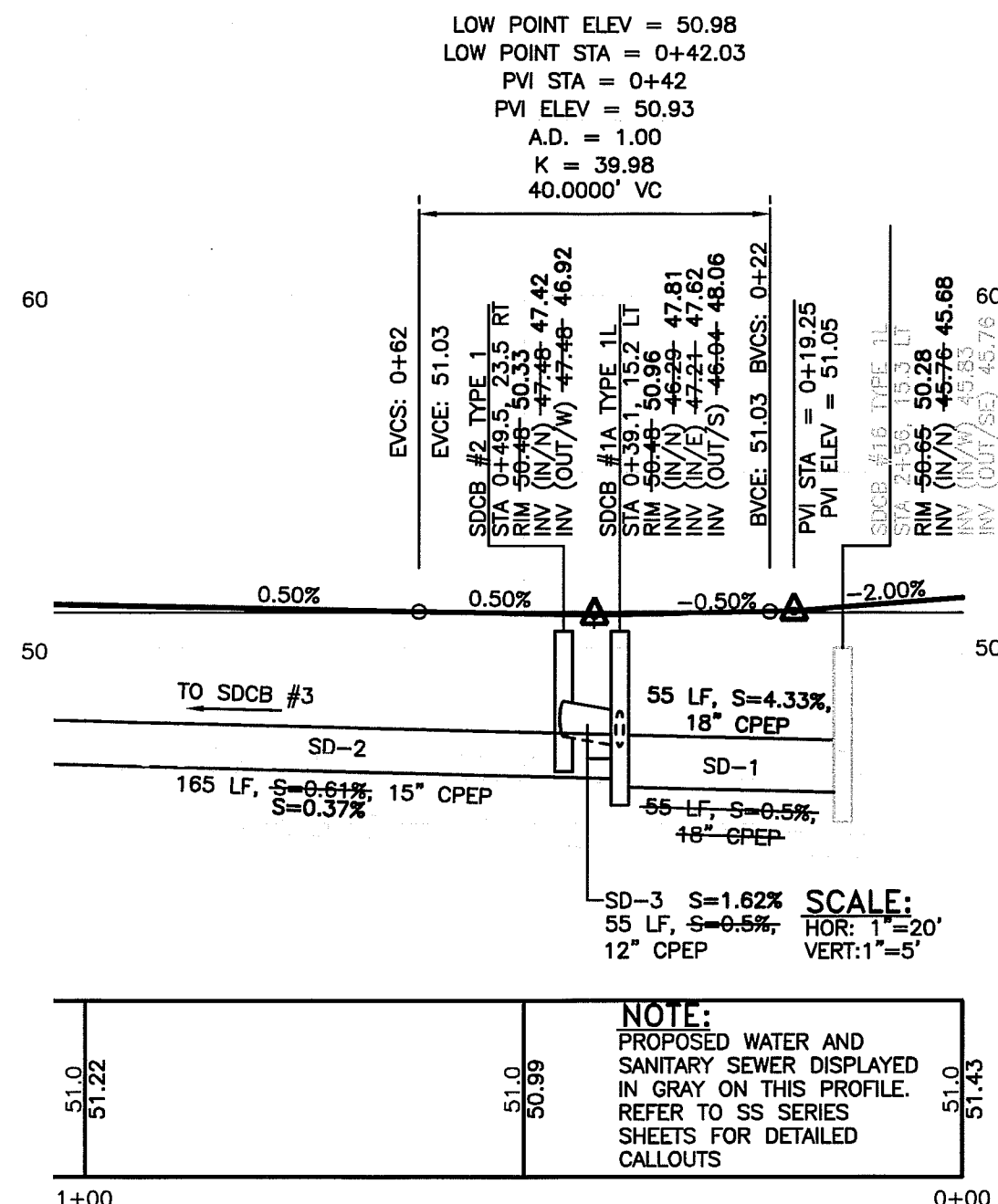
NOTE:

AS-BUILT WATER AND SANITARY SEWER DISPLAYED IN GRAY ON THIS PROFILE. REFER TO SS SERIES SHEETS FOR DETAILED CALLOUTS

SCALE:
HOR: 1"=20'
VERT: 1"=5'

AS-BUILT

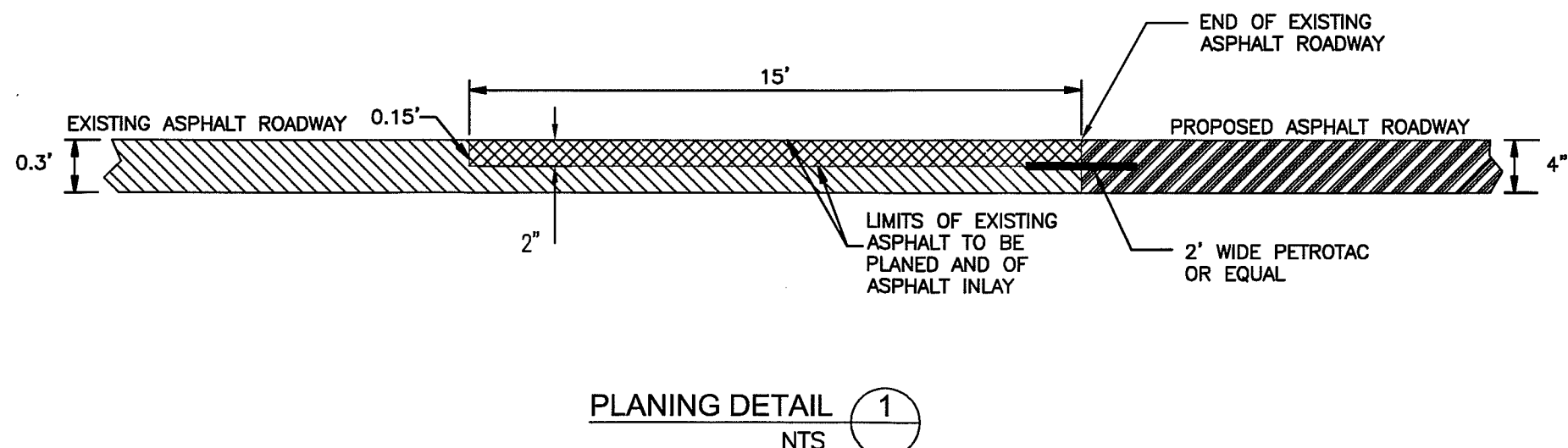
MATCHLINE STA 1+00
SEE SHEET RD-2



BLACKSTONE ROAD PROFILE STA 0+00 TO STA 1+00

UTILITY LOCATES

CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555



ENGINEER'S CERTIFICATION

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED

JAN 13 2012

BY [Signature]
CITY OF FERNDALE

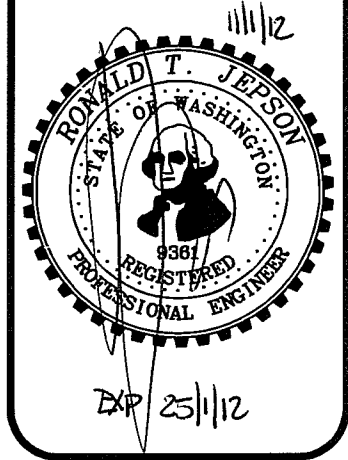
PREPARED FOR: SOUTH DOUGLAS, LLC

ROAD AND DRAINAGE PLAN
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE

COUNTY OF WHATCOM, WASHINGTON

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5780 FAX 360-647-8839 WWW.JEPSONENGINEERING.COM

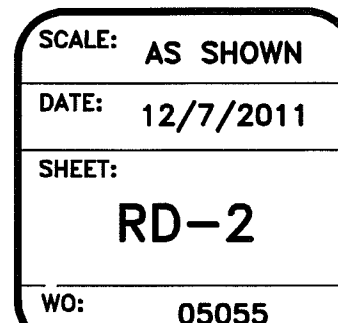
AS-BUILT
FOR RECORD




DESIGNED BY: DMK
DRAWN BY: AH
DATE: 1/11/12
RCE: 9361

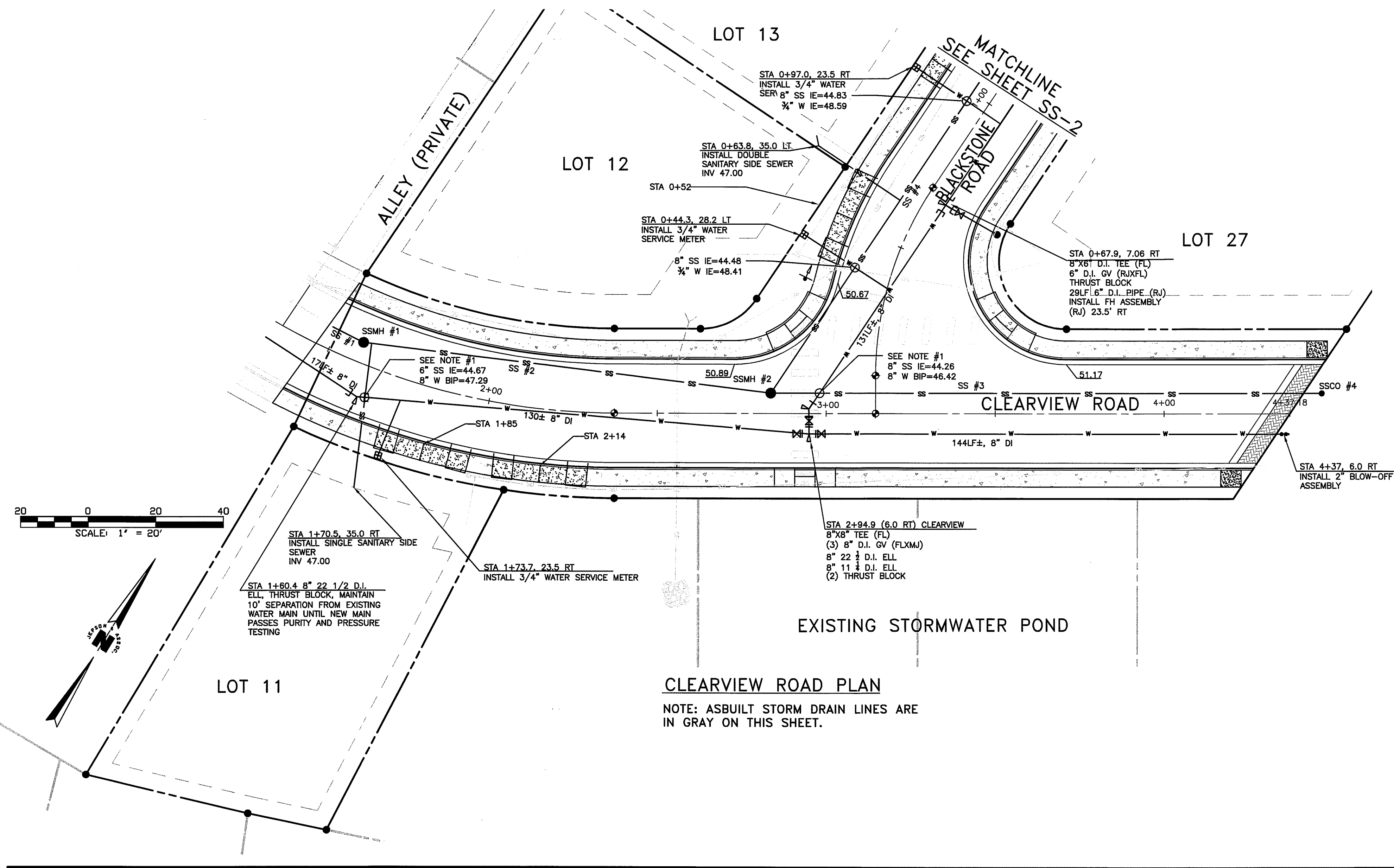
REVISIONS

00403.005 2.09.12 SH



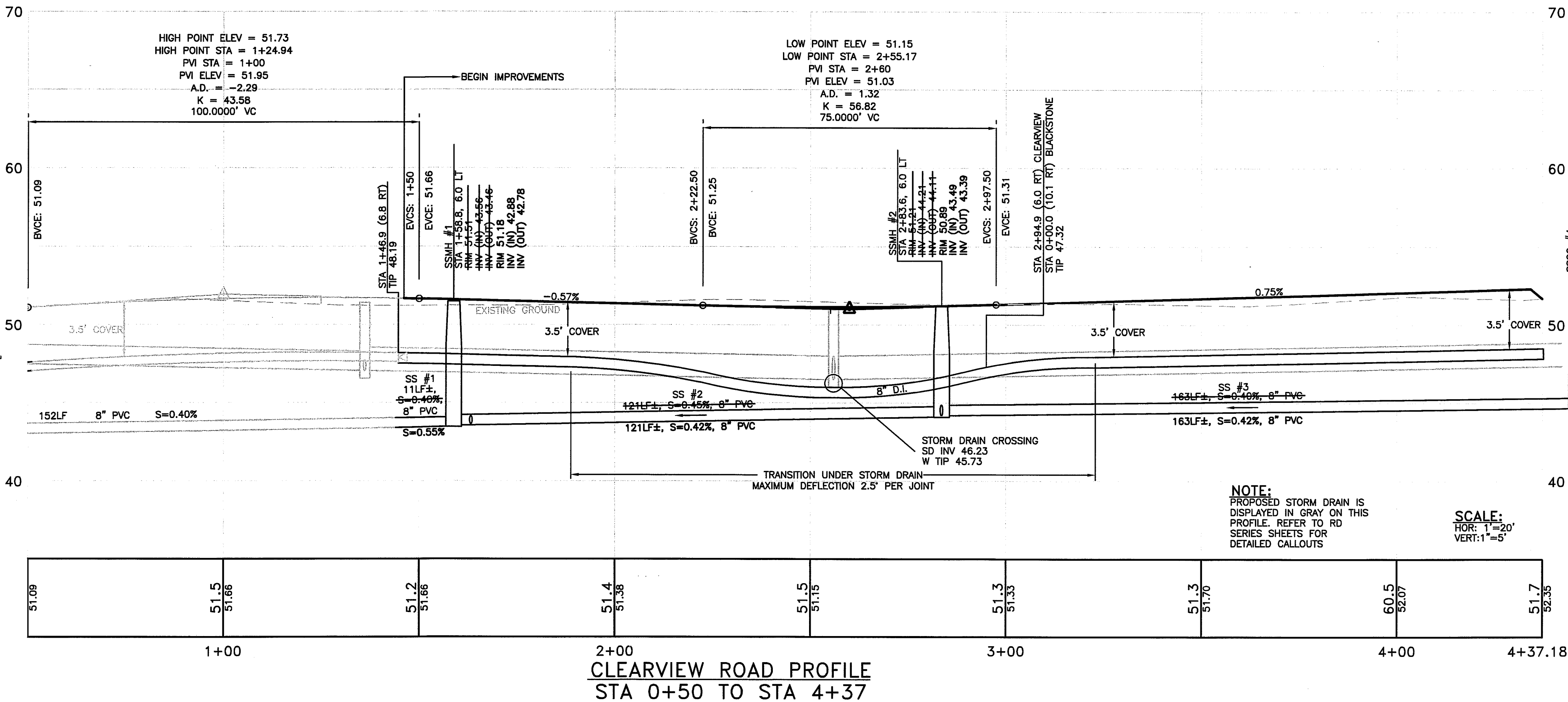
APPROVED
JAN 13 2012
BY 
CITY OF FERRDALE

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CLEARVIEW ROAD PLAN

NOTE: ASBUILT STORM DRAIN LINES ARE IN GRAY ON THIS SHEET.



CLEARVIEW ROAD PROFILE STA 0+50 TO STA 4+37

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "DOUGLAS LONG PLAT PHASE 2" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

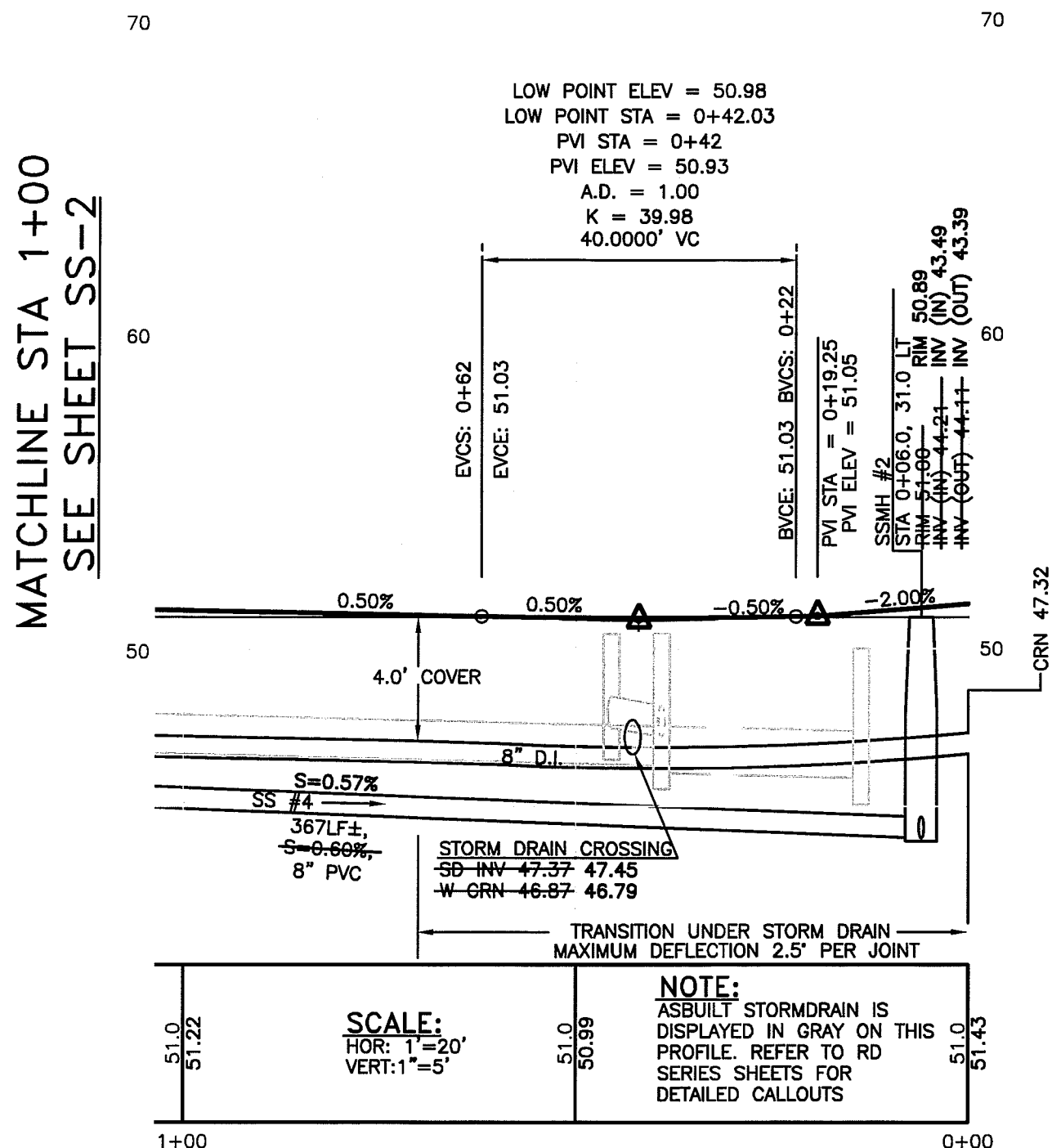
APPROVED

JAN 13 2012

BY [Signature]
CITY OF FERNDALE

UTILITY LOCATES
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

AS-BUILT



BLACKSTONE ROAD PROFILE STA 0+00 TO STA 1+00

NOTE 1:
STORM DRAIN OR SANITARY SEWER CROSSINGS SHALL BE BACKFILLED WITH CONTROLLED DENSITY FILL (CDF) IF CLEARANCE BETWEEN PIPES IS LESS THAN 18", WATER PIPE LENGTH OF 20' SHALL BE CENTERED ON CROSSING.

REVISIONS

DESIGNED BY	DMK
DRAWN BY	AH
DATE:	
ENGINEER	RONALD T. JEPSON
RCE:	9361

12/1/12

EXP 1/25/12

ASBUILT
FOR RECORD

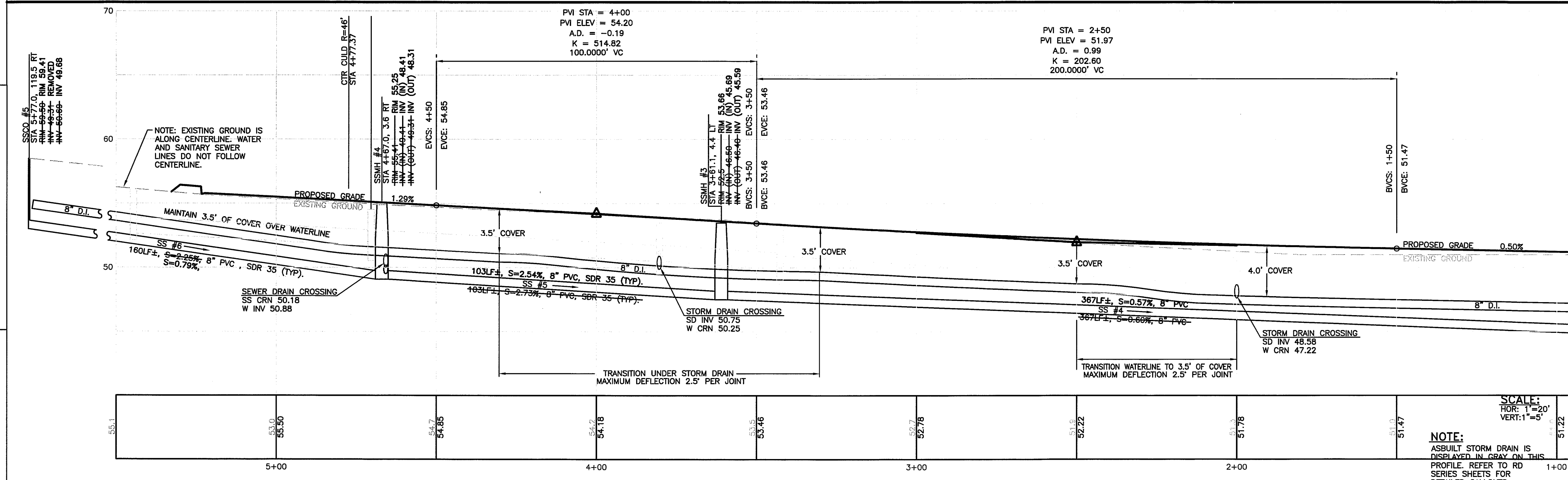
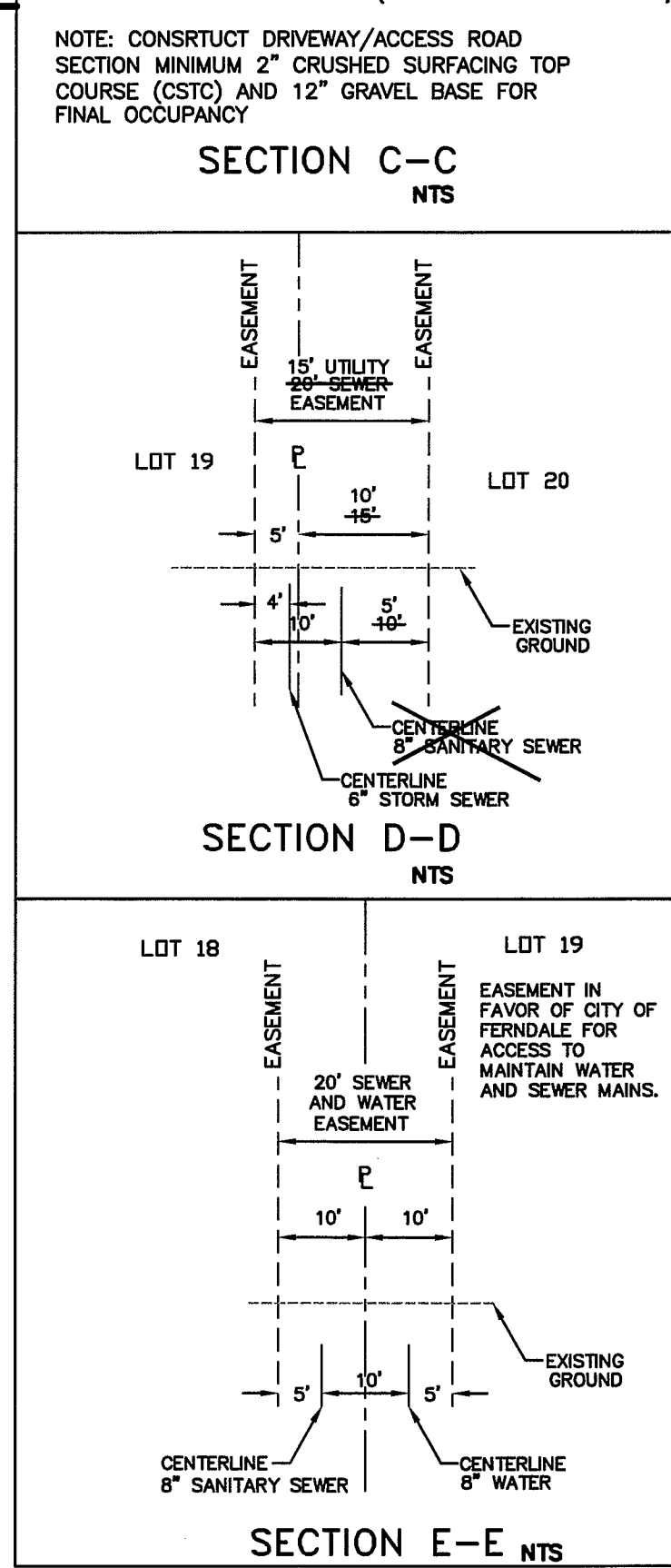
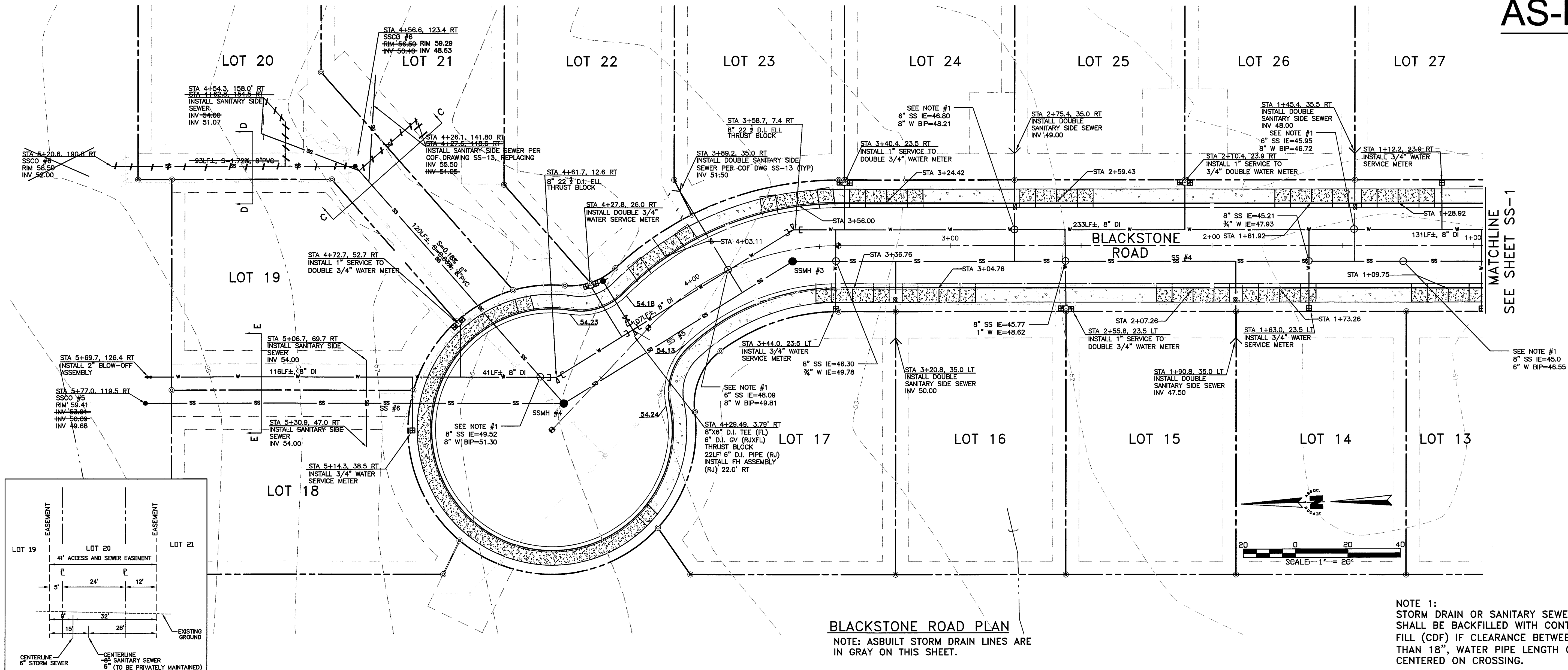
RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-9760 FAX 360-647-6659 WWW.JEPSONENGINEERING.COM

PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE
COUNTY OF WHATCOM, WASHINGTON

SCALE: AS SHOWN
DATE: 1/12/2012
SHEET: SS-1
WO: 05055

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ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "DOUGLAS LONG PLAT PHASE 2" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

APPROVED

JAN 13 2012

BY [Signature]
CITY OF FERNDALE

SURVEYOR'S CERTIFICATION

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: JAN 11, 2012."

RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

UTILITY LOCATES
CALL 2 DAYS BEFORE YOU DIG
1-800-424-5555

MATCHLINE
SEE SHEET SS-1

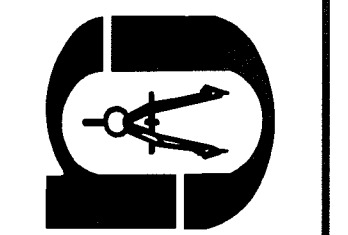
MATCHLINE
SEE SHEET SS-1

AS-BUILT

DESIGNED BY	DMK
DRAWN BY	AH
DATE:	
RONALD T. JEPSON ENGINEER	
RCE:	9361

ASBUILT
FOR RECORD

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 GRAND AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-733-5760 FAX 360-647-8939 WWW.JEPSONENGINEERING.COM



PREPARED FOR: SOUTH DOUGLAS, LLC
SANITARY SEWER AND WATER PLAN
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE
COUNTY OF WHATCOM.

SCALE:	AS SHOWN
DATE:	12/7/2011
SHEET:	SS-2
WO:	05055

SH 00403.008 2.09.12

ENGINEER'S CERTIFICATION

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RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

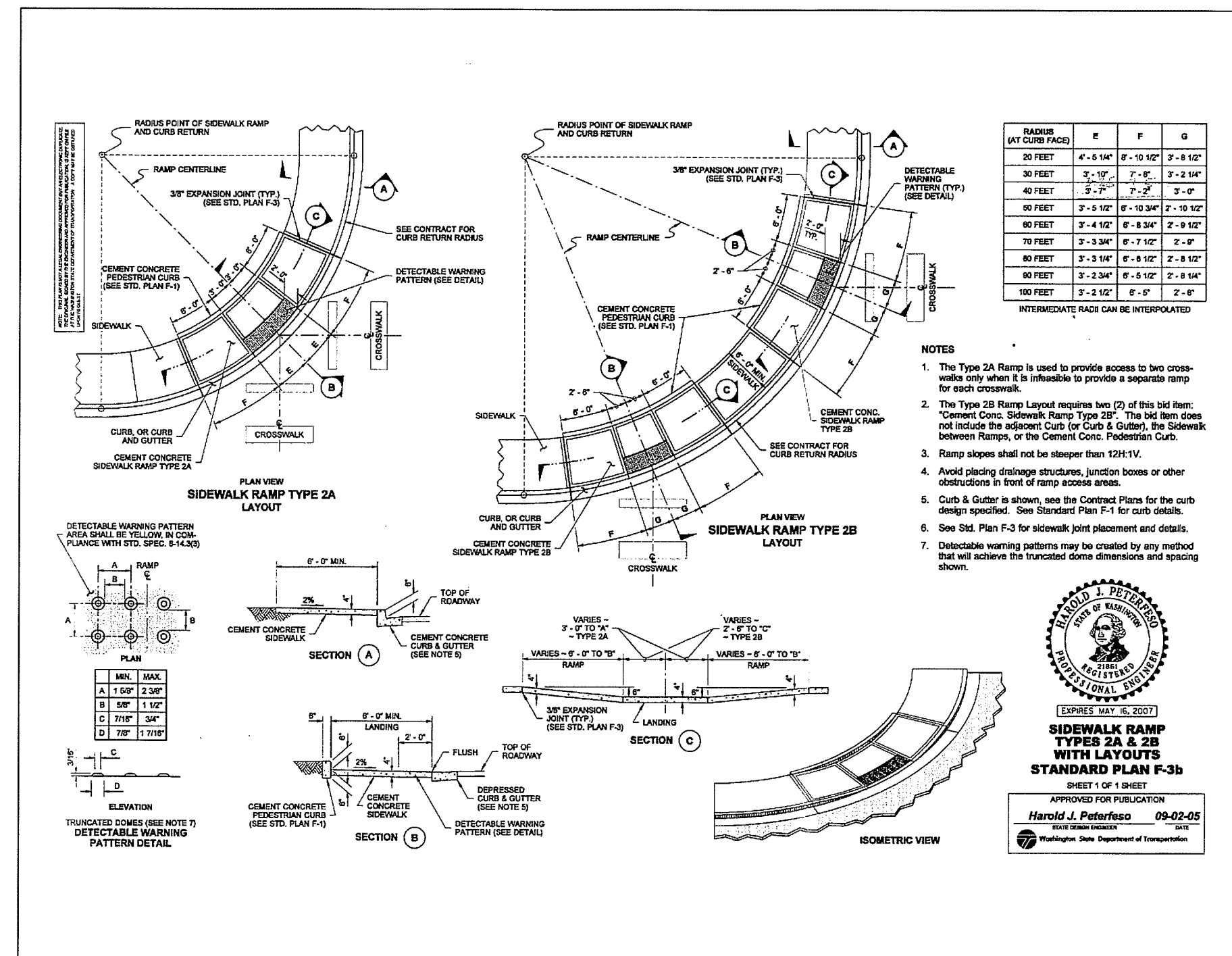
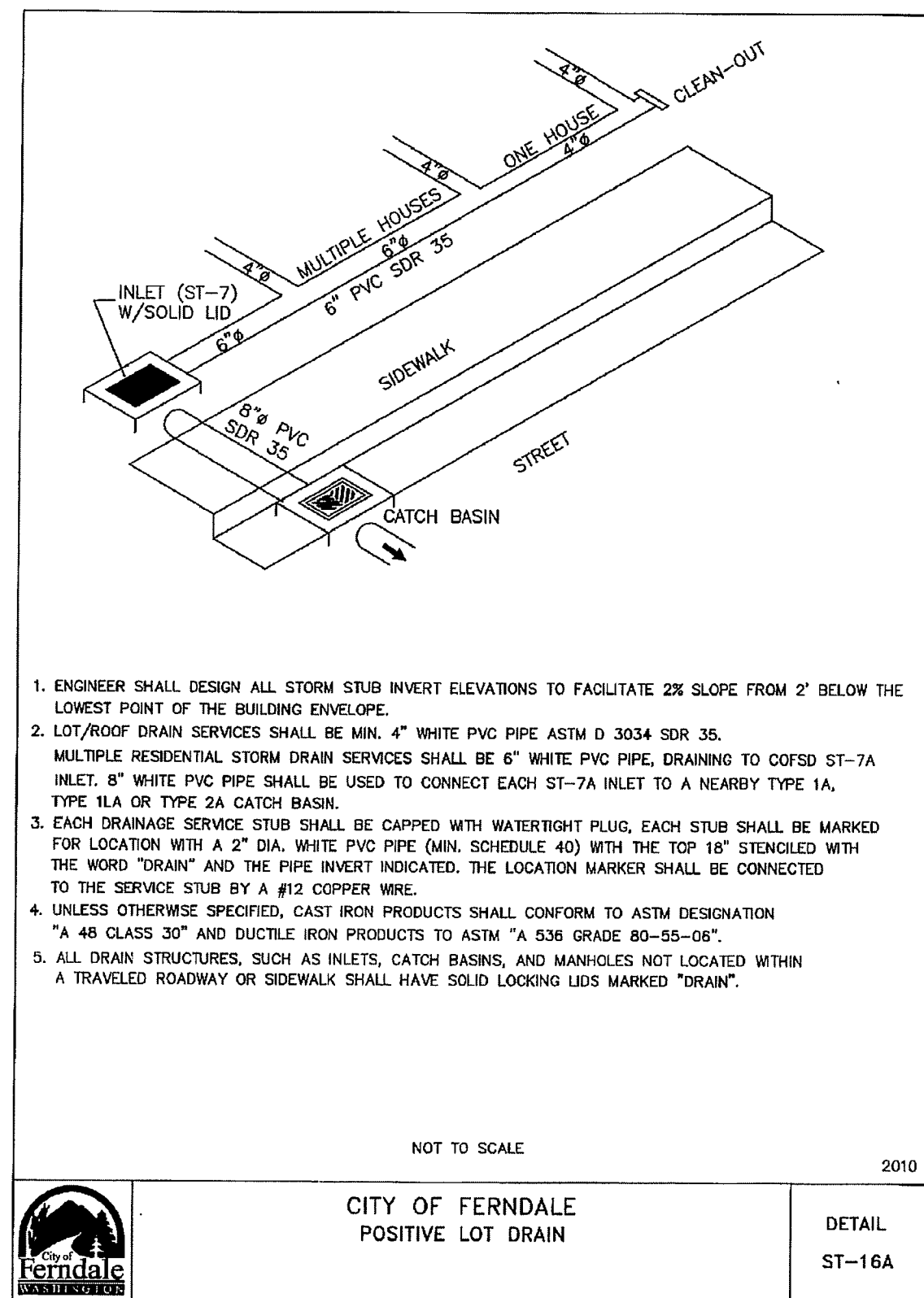
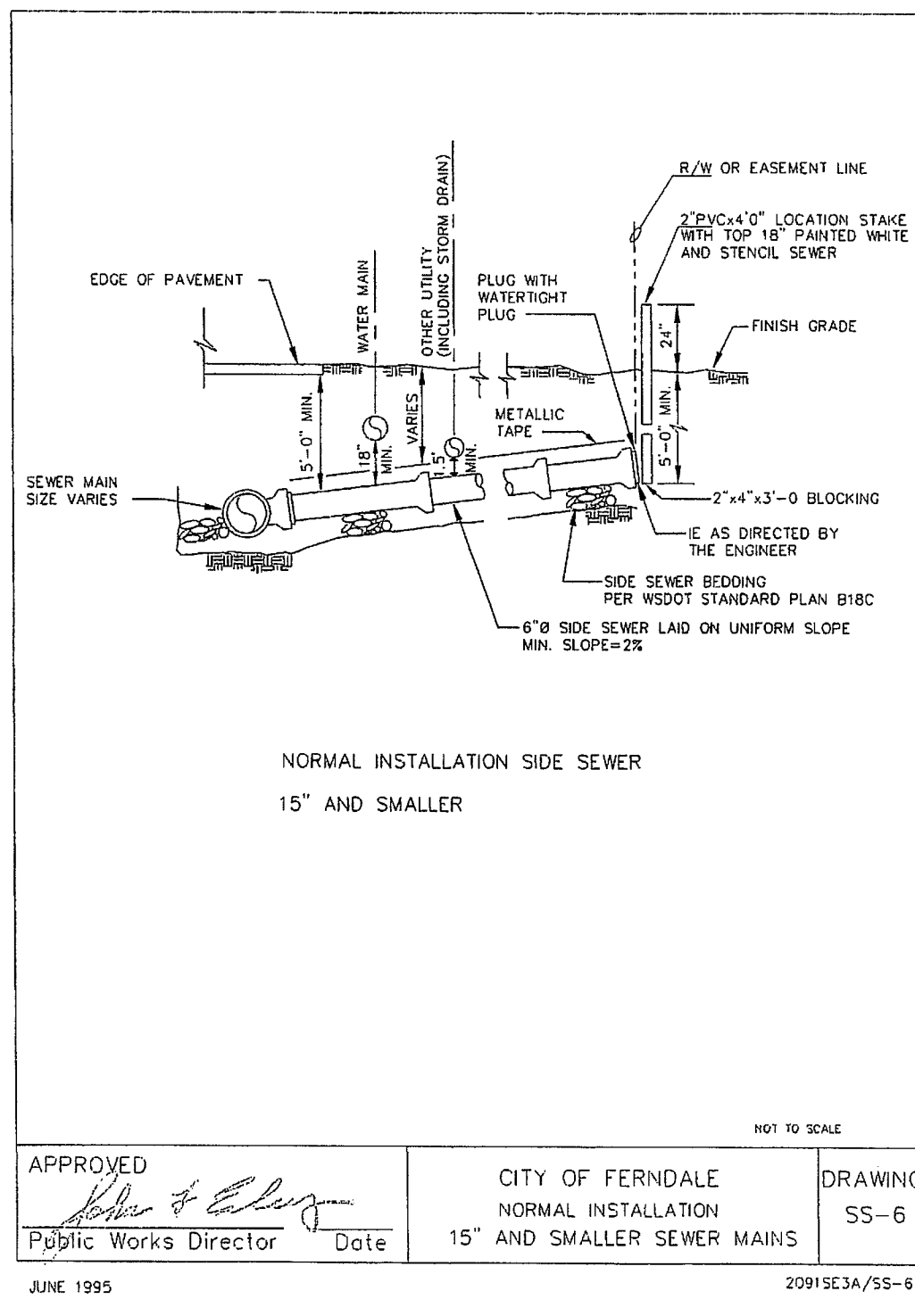
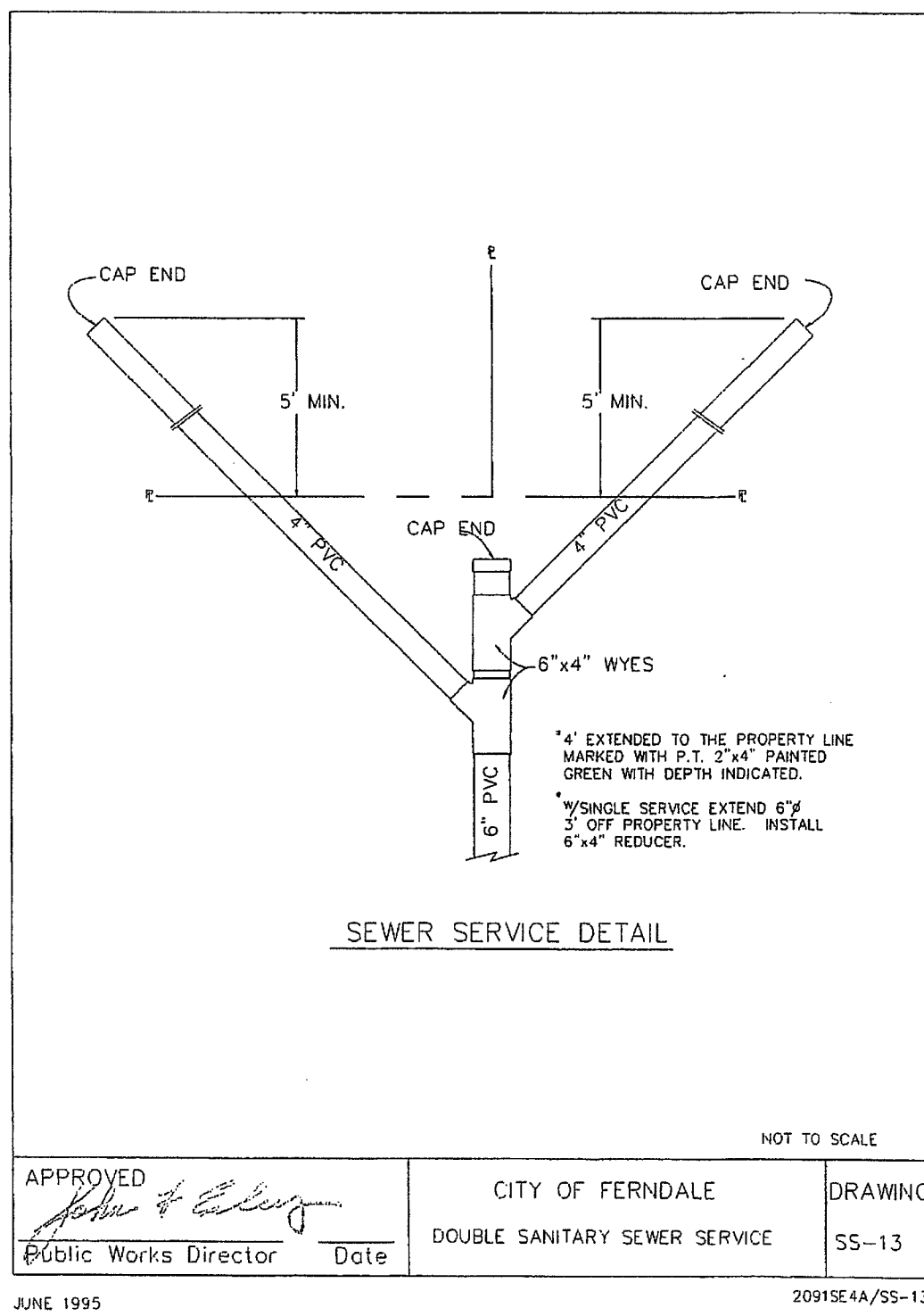
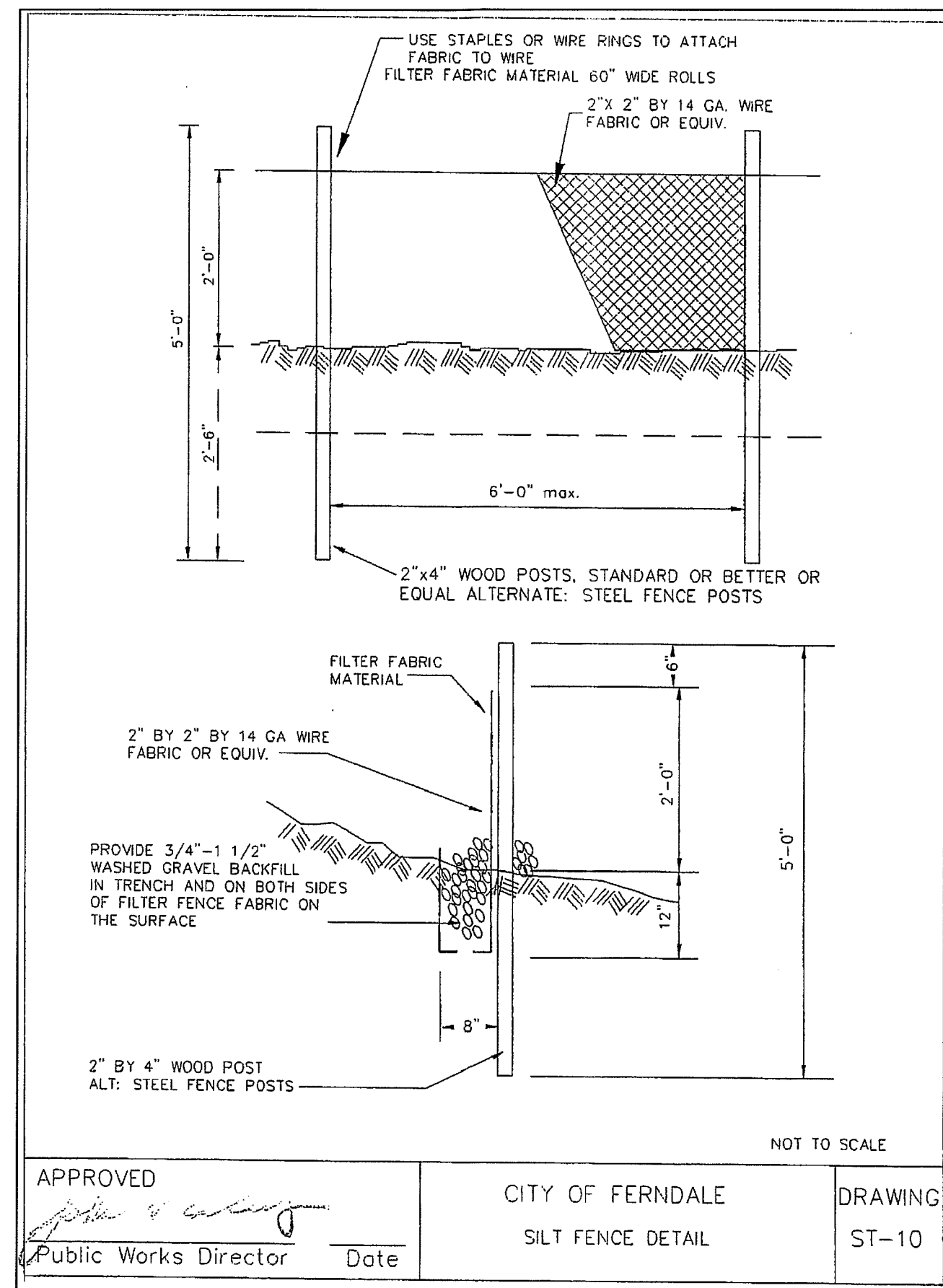
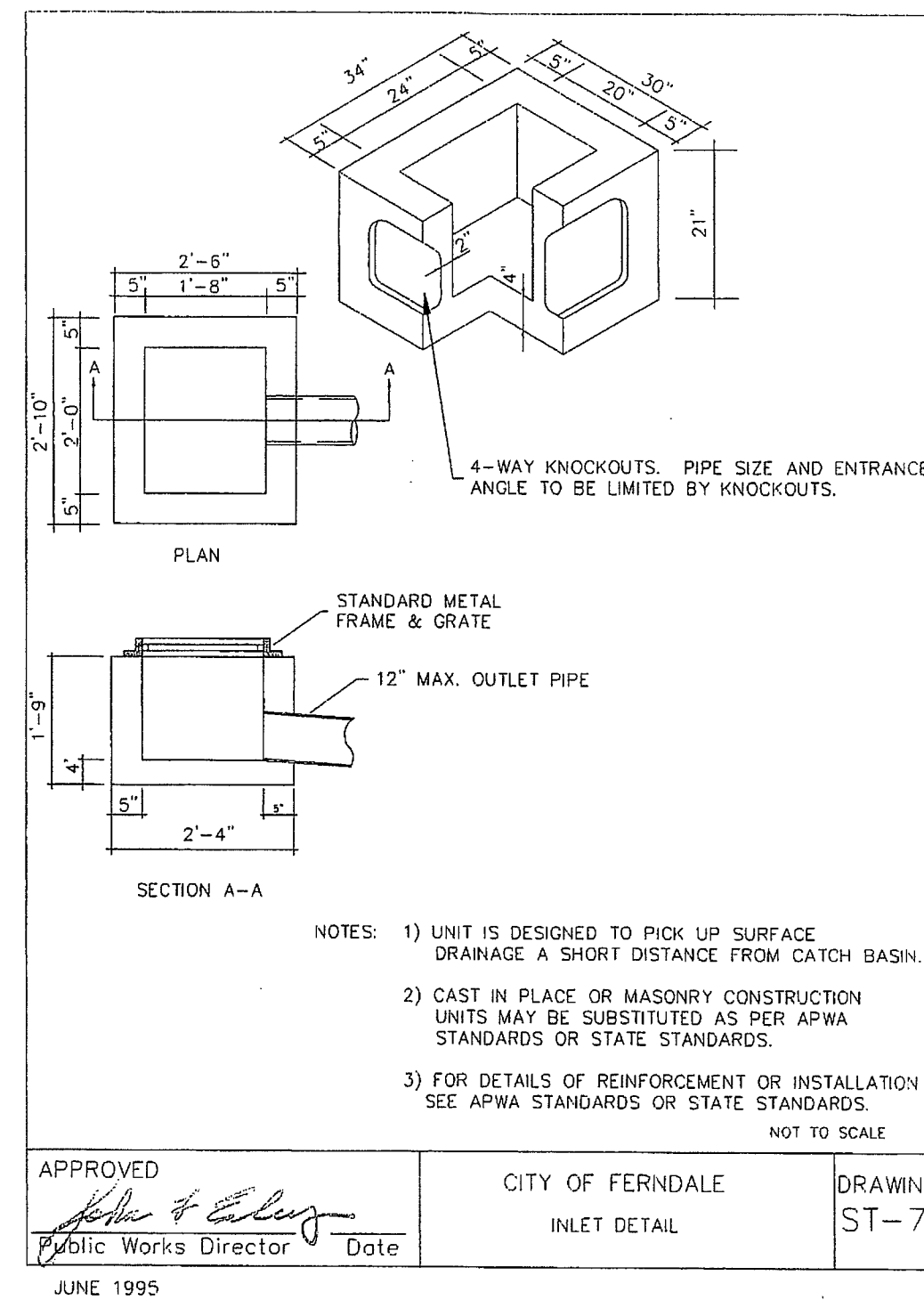
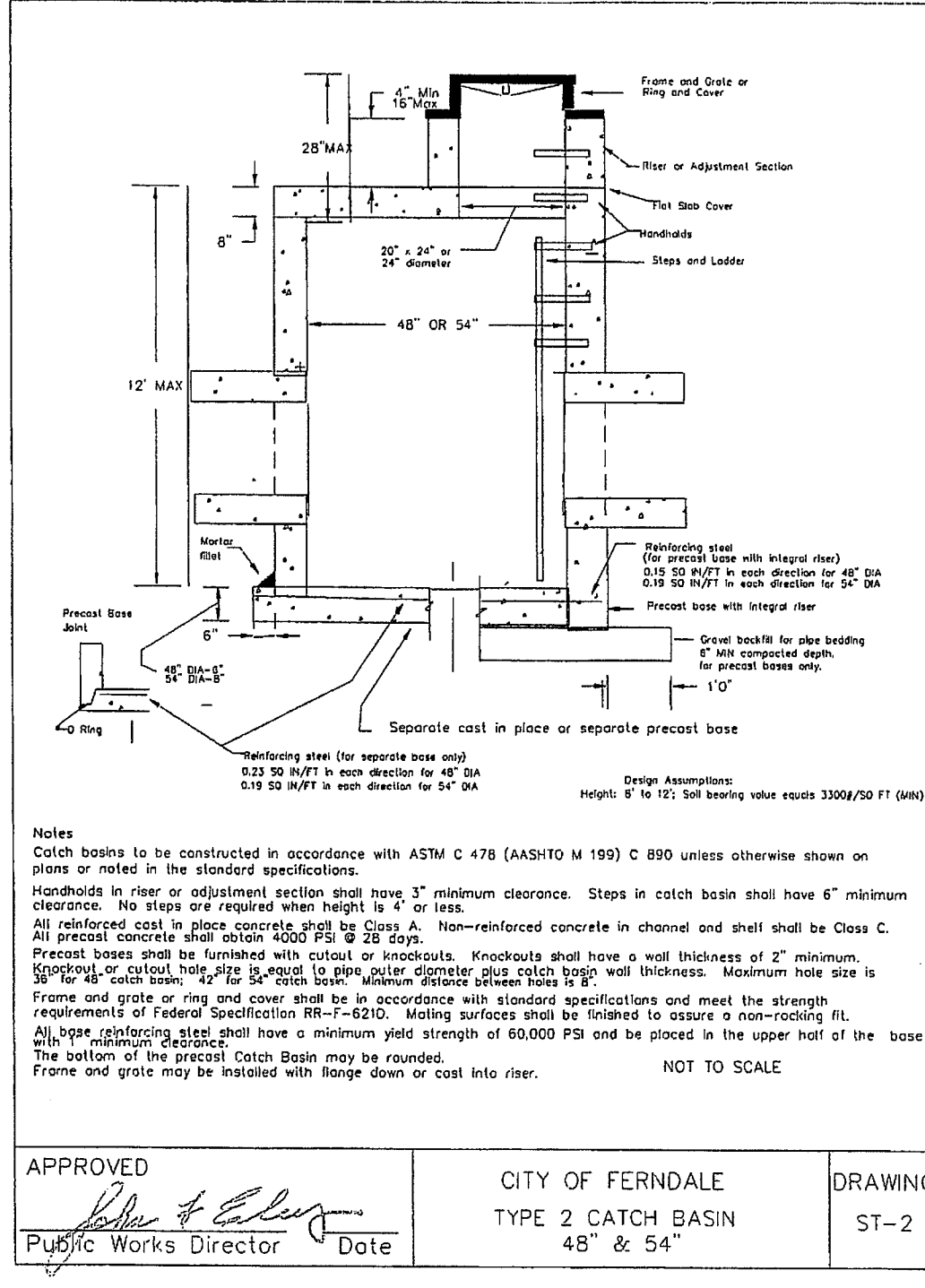
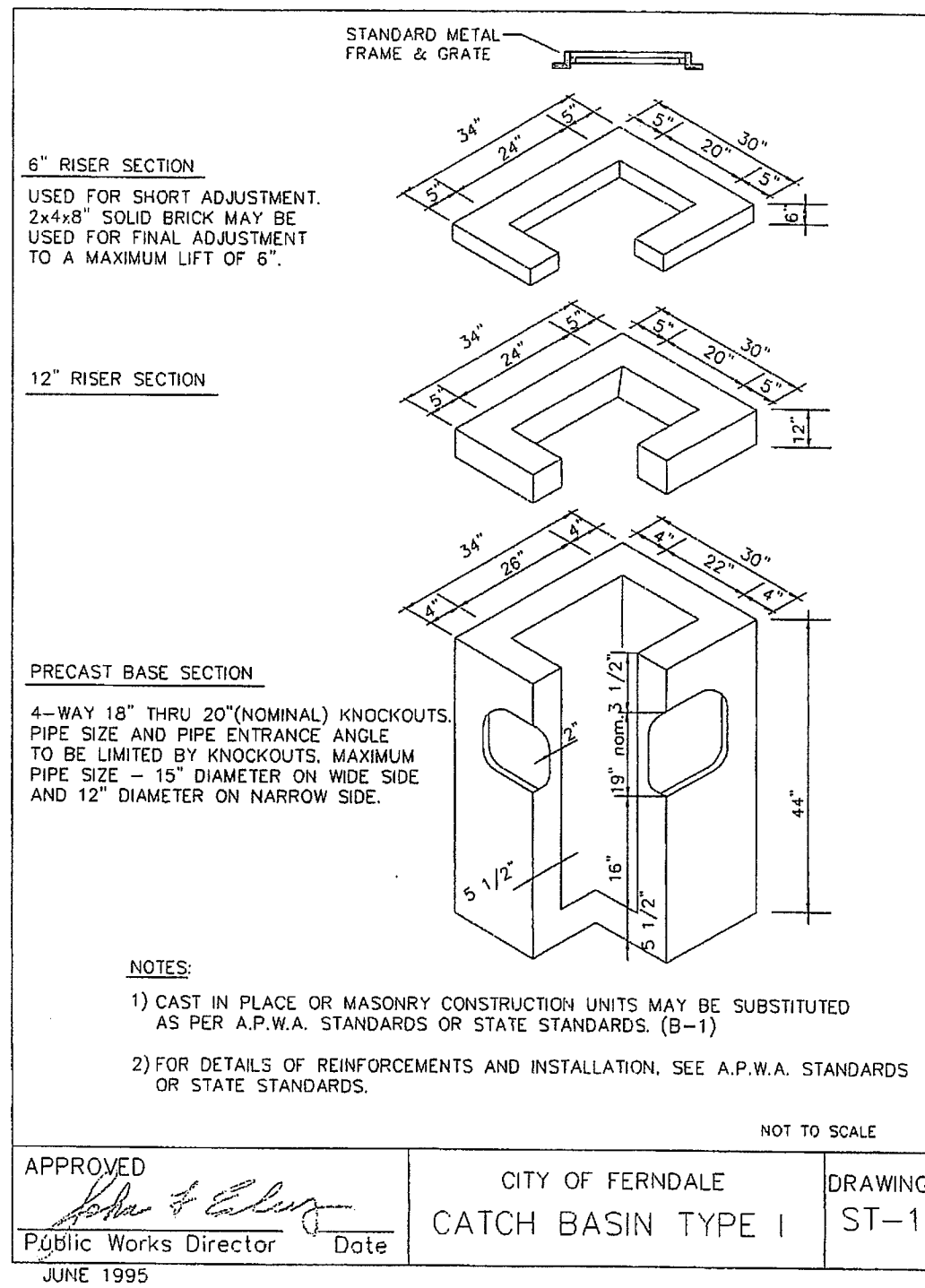
APPROVED

JAN 13 2012

BY [Signature]
CITY OF FERDALE

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

AS-BUILT



SIDEWALK RAMP DETAIL

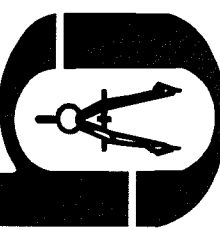
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REVISIONS

DESIGNED BY	BJW
DRAWN BY	AH
DATE:	
RONALD T. JEPSON	ENGINEER
RCE:	9361
EXP	1/25/12

AS-BUILT
FOR RECORD

RONALD T. JEPSON & ASSOC.
CIVIL ENGINEERING - SURVEYING - LAND PLANNING
222 6TH AVENUE, SUITE C, BELLINGHAM, WASHINGTON 98225
360-755-5760 FAX 360-647-6959 WWW.JEPSONENGINEERING.COM



CONSTRUCTION DETAILS
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERDALE
COUNTY OF WHATCOM.

PREPARED FOR: SOUTH DOUGLAS, LLC

SCALE: AS SHOWN
DATE: 10/5/11
SHEET: D-2
WO: 05055

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ENGINEER'S CERTIFICATION

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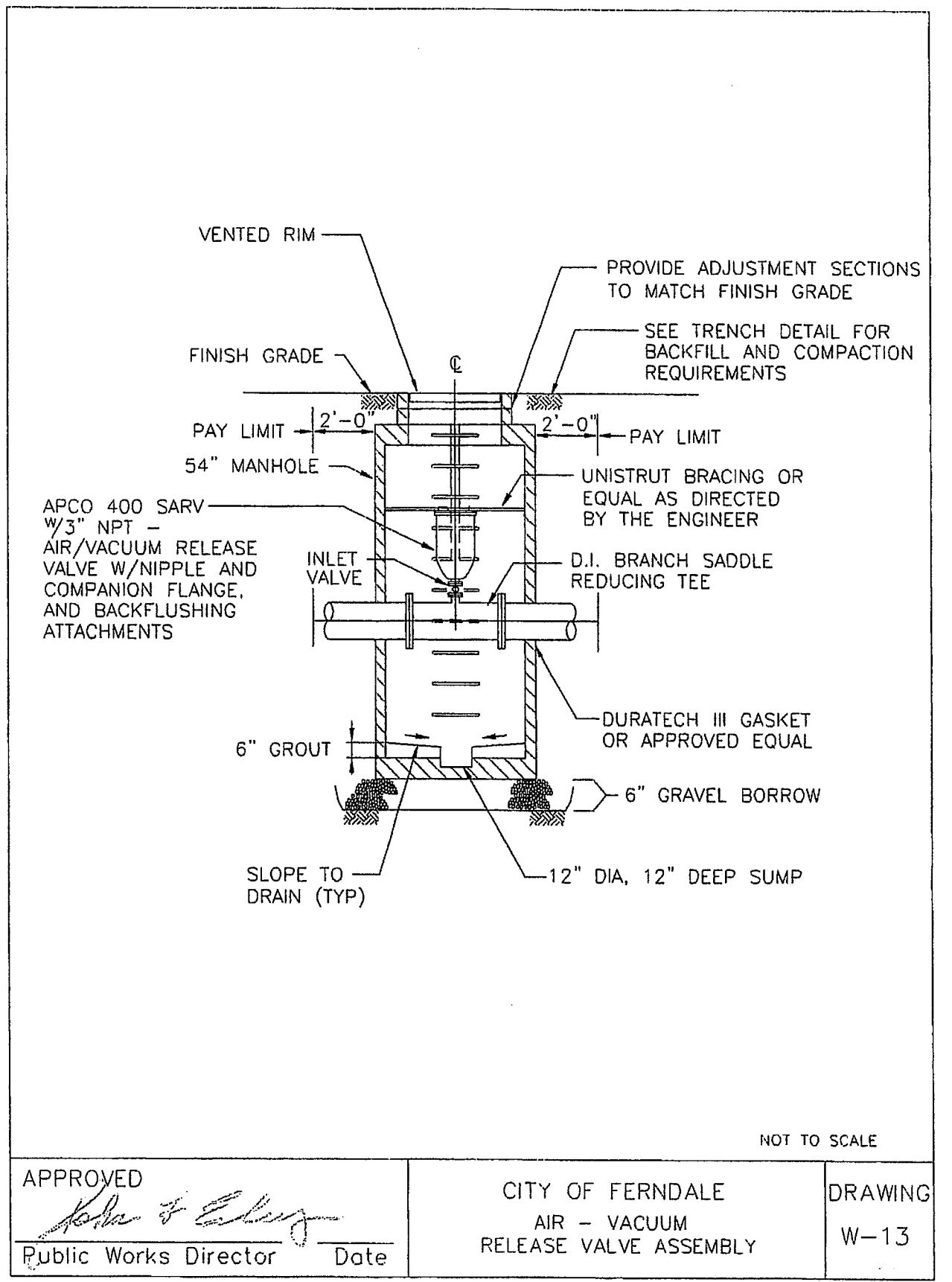
RONALD T. JEPSON, P.E., L.S.
CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATION

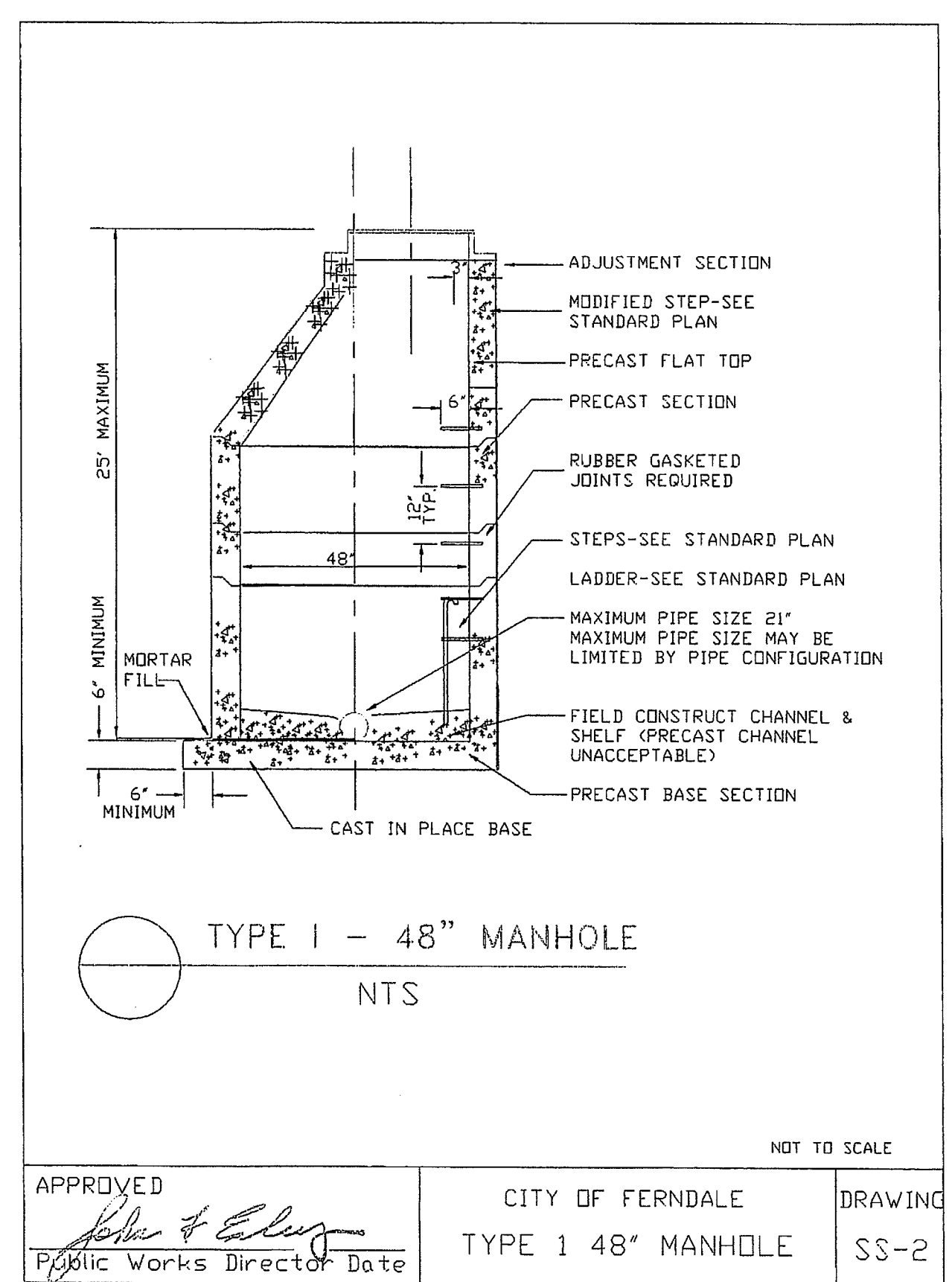
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RONALD T. JEPSON, P.E., L.S.
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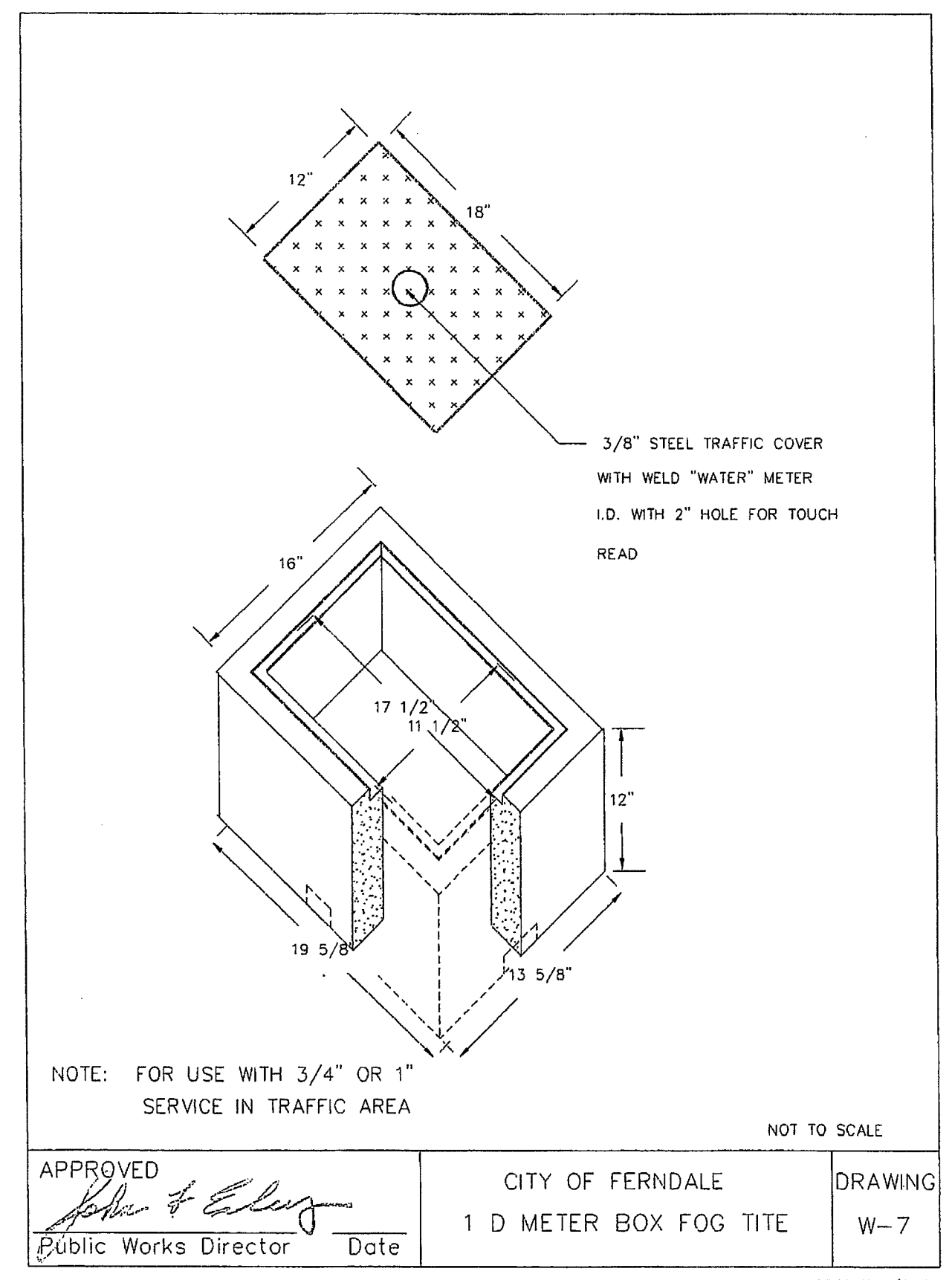
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APPROVED <i>John & Ealing</i> Public Works Director Date	CITY OF FERNDALE AIR - VACUUM RELEASE VALVE ASSEMBLY	DRAWING W-13
JUNE 1995		



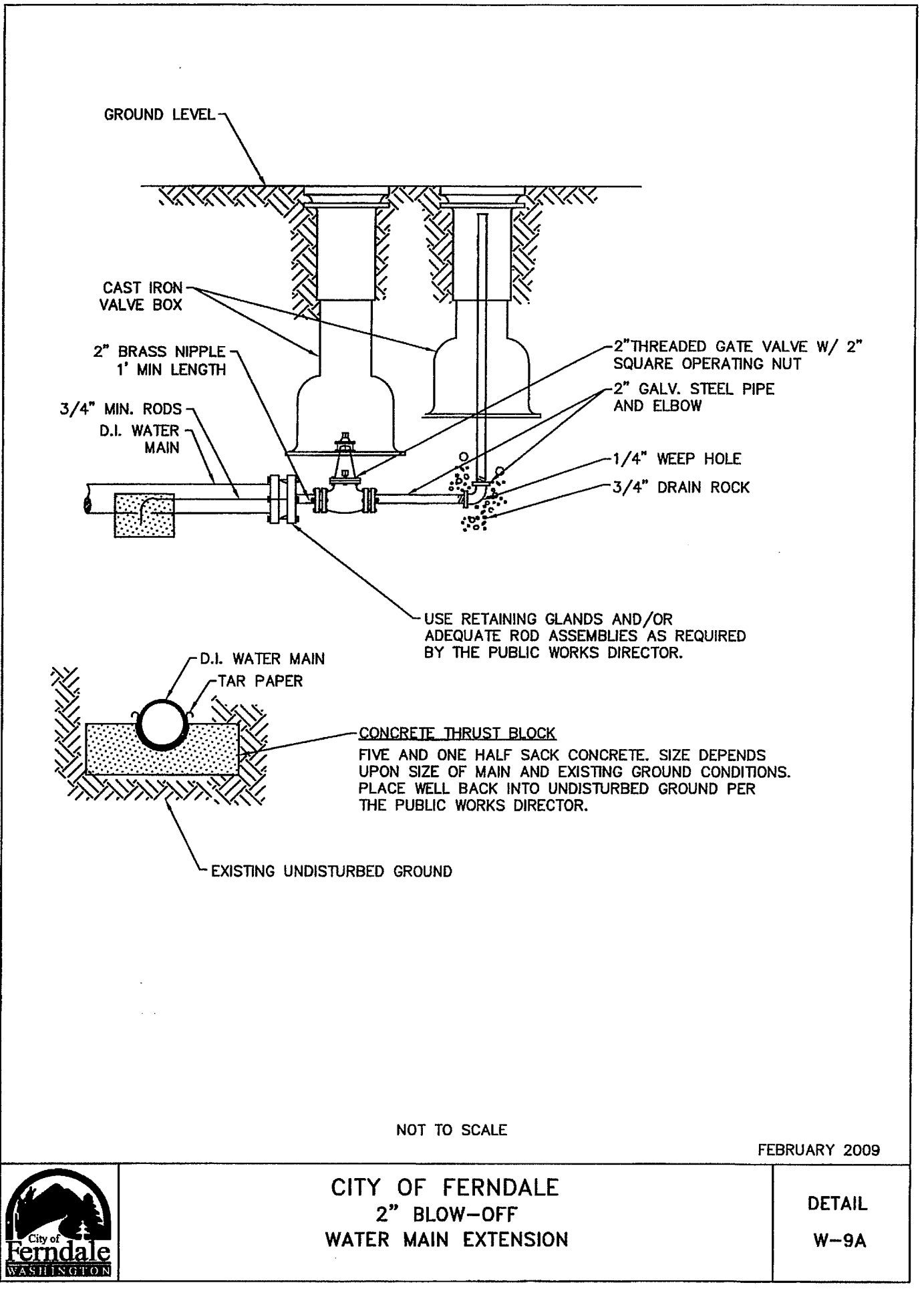
APPROVED <i>John & Ealing</i> Public Works Director Date	CITY OF FERNDALE TYPE 1 48" MANHOLE	DRAWING SS-2
JANUARY 1993		



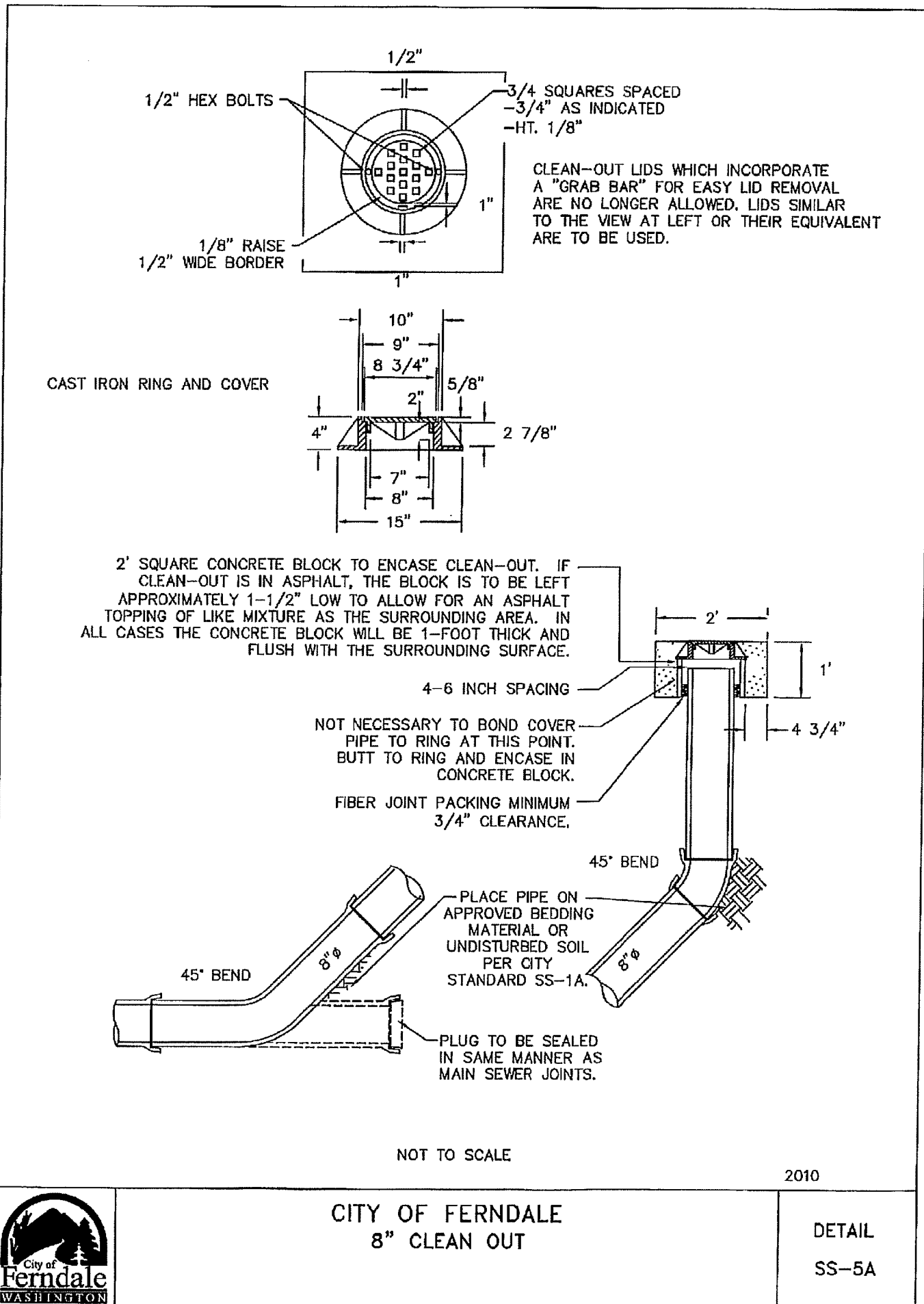
APPROVED <i>John & Ealing</i> Public Works Director Date	CITY OF FERNDALE 1 D METER BOX FOG TITE	DRAWING W-7
JUNE 1995		

AS-BUILT

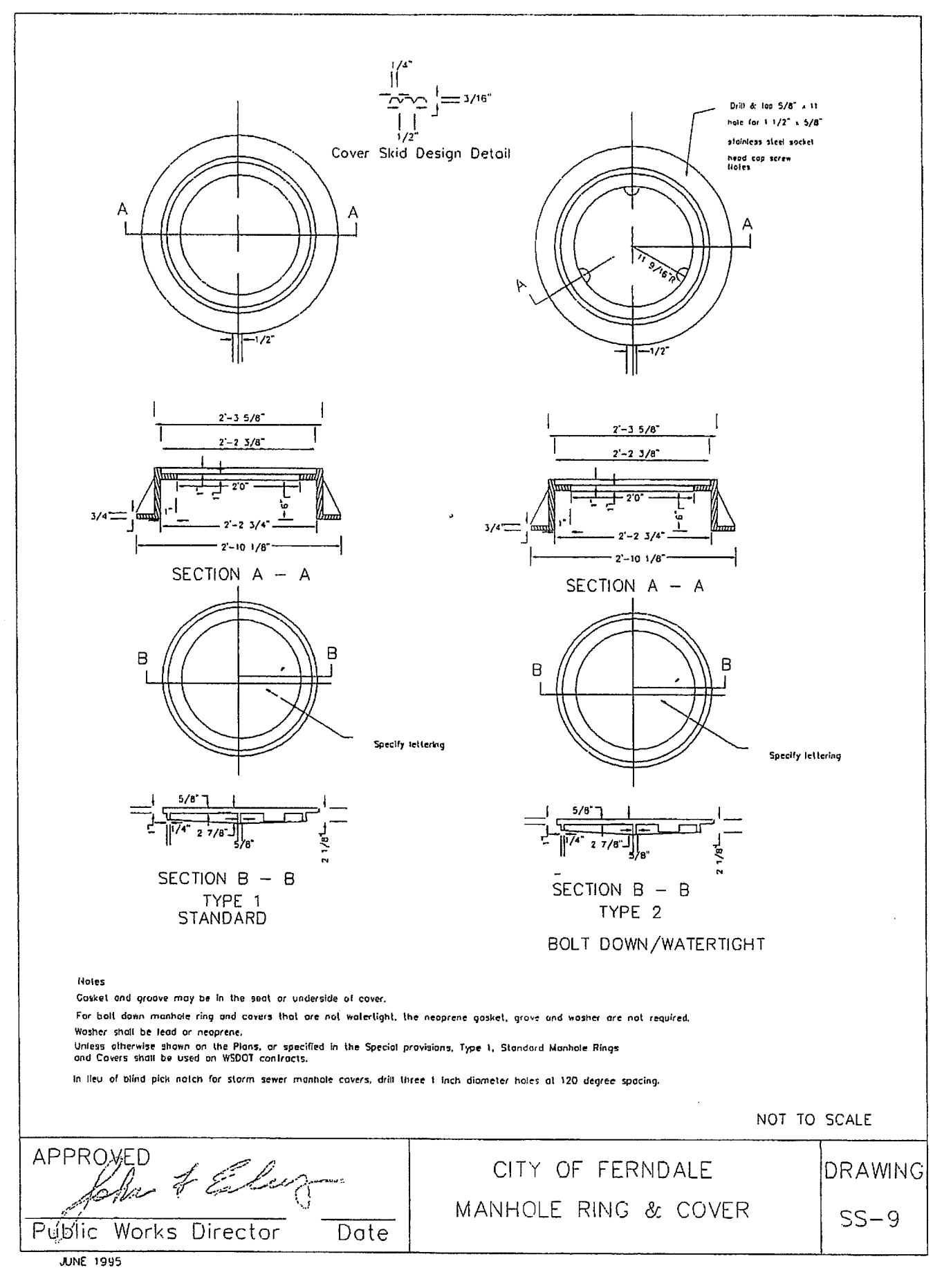
APPROVED
JAN 13 2012
BY *J. M. E.*
CITY OF FERNDALE



CITY OF FERNDALE 2" BLOW-OFF WATER MAIN EXTENSION	DETAIL W-9A
FEBRUARY 2009	



CITY OF FERNDALE 8" CLEAN OUT	DETAIL SS-5A
2010	



APPROVED <i>John & Ealing</i> Public Works Director Date	CITY OF FERNDALE MANHOLE RING & COVER	DRAWING SS-9
JUNE 1995		

PREPARED FOR: SOUTH DOUGLAS, LLC
CONSTRUCTION DETAILS
DOUGLAS LONG PLAT PHASE 2
DOUGLAS/CHURCH ROAD, FERNDALE
COUNTY OF WHATCOM.
WASHINGTON

RONALD T. JEPSON & ASSOC.
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360-733-5760 FAX 360-647-8839 WWW.JEPSONENGINEERING.COM

AS-BUILT
FOR RECORD

REVISIONS
DESIGNED BY BJW
DRAWN BY AH
DATE:
RONALD T. JEPSON
ENGINEER
RCE: 9361
STAMP OF WASHINGTON
JEPSON ENGINEERING
25/1/12

SCALE: AS SHOWN
DATE: 12/7/2011
SHEET:
D-4
WO: 05055

SH

2.09.12

00403.012

GENERAL REQUIREMENTS

- ALL WORK AND MATERIALS SHALL CONFORM TO THESE PLANS AND TO THE REQUIREMENTS OF THE MOST CURRENT EDITION OF THE STATE OF WASHINGTON, DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION. WORK AND MATERIALS SHALL ALSO CONFORM TO THE CITY OF FERNDALE DEVELOPMENT STANDARDS. IN CASE OF A CONFLICT BETWEEN PLANS, REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL.
- PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY THAT ALL REQUIRED PERMITS AND APPROVALS HAVE BEEN OBTAINED. NO CONSTRUCTION OR FABRICATION SHALL BEGIN UNTIL THE CONTRACTOR HAS RECEIVED AND THOROUGHLY REVIEWED ALL PLANS AND OTHER CONSTRUCTION DOCUMENTS APPROVED BY ALL OF THE PERMITTING AUTHORITIES.
- THE CONTRACTOR SHALL OBTAIN REVOCABLE ENCROACHMENT PERMITS FROM THE CITY OF FERNDALE AND WHATCOM COUNTY PRIOR TO COMMENCING WORK WITHIN PUBLIC RIGHTS-OF-WAY.
- THE CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH REPRESENTATIVES OF THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT AND THE PROJECT ENGINEER A MINIMUM OF THREE (3) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
- ALL WORK AND MATERIALS SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE. REPRESENTATIVES FROM THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT MUST INSPECT ALL WORK. THE CONTRACTOR SHALL CALL AT LEAST 24 HOURS IN ADVANCE TO SCHEDULE INSPECTIONS AS FOLLOWS:
 - PLACEMENT OF TEMPORARY EROSION CONTROL MEASURES.
 - PLACEMENT OF WATER MAIN AND BACKFILLING OF WATER MAIN TRENCH WITHIN ROAD RIGHTS-OF-WAY OR IN WATERLINE EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE.
 - PLACEMENT AND BACKFILLING OF UNDERGROUND UTILITIES, STORM SEWER AND SANITARY SEWER WITHIN ROAD RIGHTS-OF-WAY OR IN EASEMENTS TO BE DEDICATED TO THE CITY OF FERNDALE.
 - GRADING OF PUBLIC ROADWAY AT:
 - COMPLETION OF EXCAVATION TO SUBGRADE.
 - COMPLETION OF BALLAST COURSE PLACEMENT.
 - COMPLETION OF CRUSHED SURFACING COURSE PLACEMENT.
 - POURING OF CURB AND GUTTER AND SIDEWALK IN PUBLIC ROADWAY.
 - ASPHALT PAVING IN PROGRESS IN PUBLIC ROADWAY.
 - OVERALL INSPECTION FOR FINISHED SHOULDERS, DITCHES, PERMANENT SEEDING AND MONUMENT PLACEMENT.
 - END OF MAINTENANCE PERIOD.
- SITE CLEARING SHALL INCLUDE THE LOCATION AND REMOVAL OF ALL ABOVE GROUND AND BURIED DEBRIS AND WASTE THAT MAY BE PRESENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING SUB-SURFACE CONDITIONS AND SOILS TYPES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ANY WORK WITHIN THE TRAVELED RIGHT-OF-WAY THAT MAY INTERRUPT NORMAL TRAFFIC FLOW SHALL REQUIRE AT LEAST ONE FLAGGER FOR EACH LANE OF TRAFFIC AFFECTED. ALL SECTIONS OF THE WSDOT STANDARD SPECIFICATIONS 1-07.23-TRAFFIC CONTROL, SHALL APPLY.
- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- THE CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF ANY PROPOSED DEVIATIONS FROM THE APPROVED PLANS PRIOR TO CONSTRUCTION OF THE REVISED IMPROVEMENTS. THE CONTRACTOR SHALL KEEP RECORDS OF ALL DEVIATIONS AND SHALL FORWARD THEM TO THE ENGINEER AND TO THE CITY OF FERNDALE PUBLIC WORKS DEPARTMENT.
- THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE BASED UPON A COMBINATION OF FIELD RECONNAISSANCE, FIELD SURVEY AND UTILITY COMPANY RECORDS AND ARE SHOWN ON THESE PLANS IN AN APPROXIMATE WAY. ONLY IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONTACT ALL OF THE VARIOUS UTILITY COMPANIES TO ARRANGE FOR FIELD LOCATIONS OF ALL EXISTING UTILITY FACILITIES PRIOR TO STARTING CONSTRUCTION. NO EXTRA COMPENSATION WILL BE PAID TO THE CONTRACTOR FOR COSTS INCURRED BECAUSE OF DAMAGE DONE TO EXISTING FACILITIES BY THE CONTRACTOR'S WORK FORCE, INCLUDING COSTS FOR REPAIRS, WHICH WILL BE CONTRACTOR'S SOLE RESPONSIBILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ALL EXISTING UTILITIES AND TO NOTIFY THE ENGINEER PROMPTLY OF ANY CONFLICT BETWEEN THE APPROVED PLANS AND THE LOCATION OF ANY EXISTING UTILITIES. THE CONTRACTOR SHALL CONTACT UTILITY LOCATION SERVICE AT LEAST 48 HOURS PRIOR TO STARTING CONSTRUCTION. PHONE: 1-800-424-5555.
- THE CONTRACTOR SHALL PROTECT ALL PRIVATE AND PUBLIC UTILITIES FROM DAMAGE RESULTING FROM THE WORK. CONTRACTOR SHALL RESTORE ALL PRIVATE AND PUBLIC PROPERTY DISRUPTED BY THE PROJECT IMMEDIATELY AFTER CONSTRUCTION.
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL NOTIFY THE CITY ENGINEER OF ANY DISCREPANCIES EXIST BETWEEN ACTUAL FIELD CONDITIONS AND THE ASSUMED CONDITIONS SHOWN ON THE APPROVED PLANS PRIOR TO PROCEEDING WITH CONSTRUCTION, SO THAT NECESSARY PLAN OR DESIGN CHANGES CAN BE MADE. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR EXTRA WORK, INCLUDING REMOVAL AND RECONSTRUCTION OF NEWLY BUILT IMPROVEMENTS, MADE NECESSARY BY ERRORS OF DIMENSION OR GRADE ON THE APPROVED PLANS, UNLESS SUCH NOTIFICATION WAS GIVEN.
- THROUGHOUT THE PERIOD OF CONSTRUCTION, CONTRACTOR SHALL COMPLY WITH THE TERMS OF ALL PERMITS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING EROSION CONTROL MEASURES THROUGHOUT THE DURATION OF THE PROJECT. EROSION CONTROL MEASURES SHALL BE INSTALLED PRIOR TO ANY CLEARING OR GRADING.
- ALL MATERIALS TESTING REQUIREMENTS FOR THE IMPROVEMENTS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE PERFORMED IN ACCORDANCE WITH THE INSTRUCTIONS OF THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR. CONTRACTOR SHOULD DETERMINE THESE REQUIREMENTS PRIOR TO THE START OF CONSTRUCTION.
- ALL PORTLAND CEMENT CONCRETE SHALL BE APWA CLASS 3000, PER APWA STANDARD SPECIFICATIONS, SECTION 6-02.3(2)B.

UNDERGROUND UTILITIES CONSTRUCTION

- THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING WITH THE ENGINEER TO ASSURE ACCURATE AND TIMELY COLLECTION OF ALL REQUIRED AS-BUILT DATA. THIS DATA MUST ACCURATELY REFLECT THE LOCATIONS OF ALL UNDERGROUND UTILITIES, BOTTOM OF PIPE ELEVATIONS, INVERT ELEVATIONS, MANHOLE LOCATIONS, BLOW-OFF LOCATIONS AND INVERTS OF SERVICE CONNECTIONS (BOTH AT PIPE AND AT PROPERTY LINE), VERTICAL AND HORIZONTAL BENDS, SERVICE BOXES AND METERS, VALVES AND HYDRANTS. CALL AT LEAST 48-HOURS BEFORE BURYING UNDERGROUND PIPE TO ASSURE AND FACILITATE REQUIRED AS-BUILT SURVEY. THE ENGINEER WILL PROVIDE CERTIFIED AS-BUILT MYLARS TO PUBLIC WORKS UPON PROVISIONAL ACCEPTANCE OF ROAD AND UTILITY IMPROVEMENTS.
- THE CONSTRUCTION OF UNDERGROUND UTILITY LINES SHALL BE SUBJECT TO THE FOLLOWING CRITERIA:
 - NO MORE THAN 500 FEET OF TRENCH SHALL BE OPENED AT ONE TIME.
 - WHERE CONSISTENT WITH SAFETY AND SPACE CONSIDERATIONS, EXCAVATED MATERIAL SHALL BE PLACED ON THE UPHILL SIDE OF DITCHES.
 - TRENCH DEWATERING DEVICES SHALL DISCHARGE INTO SEDIMENT TRAPS OR SEDIMENT PONDS.
 - WHERE PRACTICAL, INSTALL GRAVITY PIPE UTILITIES PRIOR TO INSTALLATION OF OTHER UTILITIES.
- UTILITY CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS.
- TESTING OF NEW WATER LINES, SANITARY SEWER LINES, AND STORM SEWER SYSTEMS SHALL NOT BE PERFORMED UNTIL ALL OTHER ADJACENT UTILITIES HAVE BEEN INSTALLED.

ROAD

- THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF THE STANDARD STREET SECTION:

TYPICAL STREET SECTION PCC CURB AND GUTTER PCC SIDEWALKS PCC CURB RAMPS, ADA APPROACHES SIDEWALK DRAINS MONUMENTS	MODIFIED R-4 CITY OF FERNDALE STANDARD DETAIL (COFSD) R-9 COFSD R-12 & TYP. SECTION ON SHEET 1 WSDOT STD. DETAIL F-3 COFSD ST-15 COFSD S-2
--	---
- ALTERNATE PAVEMENT SECTIONS, WHEN DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER, MAY BE SUBMITTED TO THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR FOR CONSIDERATION AND, IF APPROVED, USED IN PLACE OF THE PAVEMENT SECTION SHOWN ON THESE PLANS.
- EARTHWORK**
 - THE CONTRACTOR SHALL CLEAR, GRUB AND CLEAN UP THOSE AREAS SHOWN ON THE PLANS.
 - THE CONTRACTOR SHALL RAZE, REMOVE AND DISPOSE OF ALL BUILDING AND FOUNDATIONS, STRUCTURES, FENCES AND OTHER OBSTRUCTIONS THAT LIE WHOLLY OR PARTIALLY WITHIN THE PROJECT LIMITS.
 - THE CONTRACTOR SHALL REMOVE AND REPLACE ALL EXISTING UNCOMPACTED OR POORLY COMPACTED FILL SOILS WITHIN THE ROAD PRISM AT THE DIRECTION OF THE ENGINEER.
 - THE CONTRACTOR SHALL EXCAVATE AND GRADE TO THE ALIGNMENT, GRADE AND CROSS-SECTIONS SHOWN IN THE PLANS OR ESTABLISHED BY THE ENGINEER.
 - MAXIMUM DENSITY AND OPTIMUM MOISTURE FOR GRANULAR MATERIALS WILL BE DETERMINED USING ASTM D-1557 TEST METHOD.
 - UNSUITABLE MATERIAL NOT FIT FOR USE AS A SUB-GRADE SHALL BE EXCAVATED TO THE BOUNDARIES SET BY THE ENGINEER AND REPLACED WITH A SUITABLE BACKFILL MATERIAL.
 - THE ENGINEER IS REQUIRED TO CERTIFY SUBGRADE, IN WRITING, PRIOR TO PAVING.

ROAD (CONTINUED)

- BASE COURSES**
 - GRAVEL BASES AND BALLAST SHALL NOT HAVE THE PERCENT PASSING THE U.S. NO. 200 SIEVE EXCEED 5%.
 - BALLAST, GRAVEL BASE AND CRUSHED SURFACING SHALL BE COMPACTED TO AT LEAST 95% OF MAXIMUM DRY DENSITY.
 - OWNER SHALL BE RESPONSIBLE FOR ALL COMPACTION TESTING. ALL TESTING SHALL BE THROUGH ENG. REV. ACCOUNT AND PAID FOR BY OWNER.
- PAVEMENTS**
 - SOIL RESIDUAL HERBICIDE SHALL BE PLACED WITHIN 24 HOURS OF PAVING.
 - A TACK COAT OF ASPHALT SHALL BE APPLIED BETWEEN ALL COURSES OF ASPHALT.
 - ALL PAVEMENT REPAIR SHALL BE SAW-CUT BEFORE REMOVAL. AR-4000W SHALL BE APPLIED TO ALL EDGES OF EXISTING PAVEMENT.
 - WHERE NEWLY CONSTRUCTED PAVING MEETS EXISTING PAVING, THE APPLICANT SHALL OVERLAY AND FEATHER NEW PAVEMENT TO PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. APPLICATION OF A THIN PAINT COAT OF EMULSIFIED ASPHALT SHALL BE APPLIED TO INSURE PROPER BONDING.
 - ALL PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE MUTCD.
- STREET LIGHTING**
 - CONTRACTOR SHALL PROVIDE STREET ILLUMINATION IN ACCORDANCE WITH THE PROVISIONS OF SECTION 707 OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. 100-WATT HIGH PRESSURE SODIUM LAMPS SHALL BE INSTALLED ON STANDARD CONCRETE OCTAGONAL OR ROUND POLES NO LESS THAN 25 FEET HIGH AND SPACED NO MORE THAN 250' APART, MEASURED ALONG THE PAVEMENT CENTERLINE. POLE LOCATIONS ARE SHOWN ON THESE PLANS.
 - FINAL LOCATIONS OF STREET LIGHTS IS TO BE COORDINATED WITH PUGET SOUND ENERGY.
 - CONTRACTOR IS TO COMPLY WITH THE SPECIFICATIONS SHOWN ON WSDOT STANDARD DETAIL J-11A, STANDARD JUNCTION BOX, UNLESS OTHERWISE DIRECTED BY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR.
 - CONTRACTOR MUST INFORM THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR (4) WORKING DAYS IN ADVANCE.
- MAILBOXES**

MAILBOXES SHALL BE TYPE I, II, AND/OR III - CBU (CENTRAL BOX UNIT), USPS APPROVED. FINAL LOCATION AS DETERMINED BY USPS.
- STORM DRAINAGE**
 - THE FOLLOWING STANDARD DETAILS SHALL BE USED FOR CONSTRUCTION OF STORM DRAIN IMPROVEMENTS:

"MAIN LINE" CATCH BASINS "RESIDENTIAL SERVICE LINE" CATCH BASINS THRU-CURB INLET FRAME AND GRATE SIDEWALK DRAINS	TYPE 1, 1L OR 2, WSDOT STD. DETAILS B-1, B-1A OR B-1E CITY OF FERNDALE STANDARD DETAIL (COFSD) ST-7 CITY OF FERNDALE STANDARD DETAIL (COFSD) ST-8 COFSD ST-15
---	--
 - ALL PIPE AND APPURTENANCES SHALL BE LAID ON A PROPERLY PREPARED FOUNDATION IN ACCORDANCE WITH WSDOT STANDARD SPECIFICATIONS SECTION 7-08.3(1). THIS SHALL INCLUDE LEVELING AND COMPACTING THE TRENCH BOTTOM, THE TOP OF THE FOUNDATION MATERIAL AND ANY REQUIRED PIPE BEDDING TO A UNIFORM GRADE SO THAT THE ENTIRE PIPE IS SUPPORTED BY A UNIFORMLY DENSE UNYIELDING BASE. DRAINAGE MATERIALS SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS SECTION 9-05.
 - STORM SEWER PIPE HAVING DIAMETERS GREATER THAN 8" SHALL BE CORRUGATED POLYETHYLENE PIPE (CPEP) AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.20. STORM SEWER PIPE HAVING DIAMETERS 8" AND SMALLER SHALL BE POLYVINYL CHLORIDE (PVC) PIPE AND SHALL CONFORM TO WSDOT STANDARD SPECIFICATIONS, SECTION 9-05.12.
 - ALL CATCH BASIN GRATES SHALL INCLUDE THE STAMPING "OUTFALL TO STREAM, DUMP NO POLLUTANTS".
 - UNLESS OTHERWISE SPECIFIED, CAST IRON PRODUCTS SHALL CONFORM TO ASTM DESIGNATION "A 48 CLASS 30" AND DUCTILE IRON PRODUCTS TO ASTM DESIGNATION "A 536 GRADE 80-55-06".
 - ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOCKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOCKING LIDS.
 - ALL DRAINAGE SERVICE STUBS SHALL BE MARKED FOR LOCATION WITH A PRESSURE TREATED 2" X 4" TIMBER, PAINTED WHITE OR A WHITE 2" DIA. PVC PIPE. BOTH TYPES OF LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.
 - MULTIPLE RESIDENTIAL STORM DRAIN SERVICES SHALL BE 6" WHITE PVC PIPE, DRAINING TO A COFSD ST-7 INLET. 8" PVC PIPE SHALL BE USED TO CONNECT EACH ST-7 INLET TO A NEARBY TYPE 1 OR TYPE 1L CATCH BASIN.
 - ALL STORM STUB INVERT ELEVATIONS SHALL BE CONSTRUCTED TO FACILITATE POSITIVE FLOW TO CATCH BASIN.

SANITARY SEWER

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING SANITARY SEWER IMPROVEMENTS:

PIPE BEDDING TRENCH BACKFILL SS MANHOLE, TYPE 1-48" SSMH RING & COVER, TYPE 2 SS CLEANOUTS SIDE SEWERS	CITY OF FERNDALE STANDARD DETAIL (COFSD) SS-1 COFSD SS-15 & SS-1 & WSDOT STD. SPEC. SEC. 9-03.12 COFSD SS-2 COFSD SS-6 (BOLT DOWN/WATERTIGHT) COFSD SS-8 COFSD SS-6, SS-8 & SS-13
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- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH A.P.W.A. STANDARD SPECIFICATIONS, 1998 EDITION, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERNDALE.
- ALL WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERNDALE. 24 HOUR NOTICE MUST BE GIVEN PRIOR TO STARTING WORK. TESTING OF THE SEWER SYSTEM AND ALL CONNECTIONS TO EXISTING MAINS SHALL BE DONE IN THE PRESENCE AND UNDER THE SUPERVISION OF A CITY OF FERNDALE REPRESENTATIVE.
- SANITARY SEWER MAINS SHALL BE A MINIMUM 8 INCH DIAMETER PVC PIPE (SDR-35) CONFORMING TO THE PROVISIONS OF ASTM D 3034 AND INSTALLED TO CITY SPECIFICATIONS.
- SANITARY SEWER PIPE BEDDING SHALL BE PEA GRAVEL PER COFSD SS-1. ALL TRENCHES SHALL BE BACKFILLED WITH CLASS B BANK RUN GRAVEL OR SUITABLE NATURAL MATERIAL AS DIRECTED BY THE ENGINEER, AND COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
- ALL MANHOLES SHALL BE INSTALLED PER CITY OF FERNDALE SS-2, SS-3 OR SS-4, AND SHALL BE BE PRE-CHANNELED. MANHOLE CONES ARE TO BE OFFSET SUCH THAT LADDER RUNGS ARE PARALLEL TO THE FLOW.
- ALL SIDE SEWERS SHALL BE INSTALLED PER CITY OF FERNDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4" GREEN PVC.
- CONTRACTOR SHALL EXTEND SEWER STUBS BEYOND THE STREET RIGHT-OF-WAY LINE.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION PER COFSD SS-14, WITH A 2" DIA. PVC PIPE WITH THE TOP 18" PAINTED WHITE AND STENCILED WITH THE WORD "SEWER". THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.

WATER

- THE FOLLOWING STANDARD DETAILS SHALL BE USED IN CONSTRUCTING WATER SUPPLY SYSTEM IMPROVEMENTS:

PIPE BEDDING TRENCH BACKFILL AIR/VACUUM RELEASE VALVE BLOW-OFF ASSEMBLY FIRE HYDRANT ASSEMBLY THRUST BLOCKING WATER SERVICE	SEE DETAIL, SHEET 27 COFSD W-11 & WSDOT STD. SPEC. SEC. 9-03.12 WSDOT STD. DETAIL B21-0 COFSD W-9 & W-10 COFSD W-1 COFSD W-2, W-3 & W-4 COFSD W-5
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- ALL WATERMAIN PIPE SHALL BE DUCTILE IRON, MINIMUM CLASS 50, PER AWWA STANDARDS H3-71 AND C151-71, WITH CEMENT LINING PER AWWA STANDARD C104-71. ALL WORK AND MATERIALS SHALL CONFORM TO THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705.
- MATERIAL FOR FITTINGS SUCH AS CROSSSES, TEES, BENDS, REDUCERS AND SLEEVES SHALL BE DUCTILE IRON. JOINTS SHALL BE M.J., FLANGED OR PUSH-ON JOINTS AND SHALL CONFORM TO AWWA SPECIFICATIONS C-110-71 AND C-104-71.
- CONCRETE BLOCKING SHALL BE AS SPECIFIED IN CITY OF FERNDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKING SHALL BE INSTALLED IN SECTION 7-09.3(21) OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION. NO PRE-CAST BLOCKS ARE ALLOWED.
- CONNECTIONS TO EXISTING WATER MAINS - PER WSDOT STD SPEC. 7-09.3(19), THE CONTRACTOR MUST NOTIFY THE CITY OF FERNDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR WORKING DAYS IN ADVANCE. ALL CONNECTIONS SHALL BE DONE BY THE CONTRACTOR. CONNECTION TO EXISTING CITY WATER SYSTEM SHALL BE PAID IN ADVANCE BY A DEPOSIT.

WATER (CONTINUED)

- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTIONS 7-09.3(23) AND 7-09.3(24) AND OF THE WSDOT STD SPECIFICATIONS FOR ROAD, BRIDGE OR MUNICIPAL CONSTRUCTION - CURRENT EDITION. HYDROSTATIC TEST PRESSURE FOR WATER MAIN ACCEPTANCE SHALL BE 225 PSI AND SHALL BE DONE ACCORDING TO CITY OF FERNDALE REQUIREMENTS. CITY OF FERNDALE BACTERIOLOGICAL TESTS SHALL BE CONDUCTED BY THE CITY OF FERNDALE LABORATORY. THE PIPE WILL NOT PASS TESTING UNLESS A ZERO BACTERIAL COUNT IS MEASURED ON TWO CONSECUTIVE TESTS, CONDUCTED 24 HOURS APART.
- BACKFILL SHALL BE GRAVEL BASE, CLASS B, IN ALL STREET RIGHTS-OF-WAY, COMPACTED TO MINIMUM 95% OPTIMUM DENSITY. IN UNIMPROVED AREAS, MINIMUM COMPACTION SHALL BE 90% OF OPTIMUM DENSITY.
- ALL PIPE SHALL HAVE A MINIMUM COVER OF 42".
- ALL VALVES SHALL BE EITHER GATE OR BUTTERFLY TYPE VALVES AND SHALL BE INSTALLED WITH SLIP TYPE CAST IRON VALVE BOXES.

GATE VALVES SHALL BE USED FOR LINES 2 INCHES THROUGH 8 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NONSHOCK SHUT-OFF PRESSURE OF 130 PSI AND SUITABLE FOR DIRECT BURIAL ARE SPECIFIED. GATE VALVES SHALL BE RESILIENT SEATED IRON-BODY, FULL-BRONZE MOUNTED VALVES CONFORMING TO AWWA C509 AND SUITABLE FOR SERVICE WITH THE TYPE AND CLASS OF PIPE USED.

ALL VALVES SHALL HAVE NONRRISING STEMS AND SHALL OPEN COUNTERCLOCKWISE AND SHALL BE EQUIPPED WITH A 2 INCH SQUARE OPERATING NUT. VALVES WILL BE FLANGE OR M.J. JOINTS.

VALVE MARKERS SHALL BE LOCATED OUTSIDE OF PAVEMENT SECTIONS.
- WATER SERVICE TAP INSTALLATIONS SHALL MEET THE REQUIREMENTS OF THE CITY OF FERNDALE DEVELOPMENT STANDARDS. ALL WATER SERVICES SHALL BE MARKED FOR LOCATION WITH A METER BOX PER COFSD W-5.
- FIRE HYDRANTS AND FIRE MAINS MUST CONFORM TO COF STANDARD DETAIL W-1 (WSDOT B-19) AND THE FOLLOWING STANDARDS:
 - FIRE HYDRANTS SHALL HAVE TWO INDIVIDUALLY-VALVED 2-1/2" PORTS AND ONE 5-1/4" MAIN VALVE OPENING. A 4-1/2" NPT PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND CABLE SHALL BE SUPPLIED. HYDRANTS SHALL EITHER BE IOWA OR M.H. 929T HYDRANTS.
 - FIRE HYDRANTS SHALL HAVE THE STORZ PORT FACING THE REQUIRED ACCESS AND THE BASE FLANGE OF THE HYDRANT MUST VARY MORE THAN 1 FOOT IN ELEVATION FROM THE GRADE LEVEL OF THE REQUIRED ACCESS. THE LOWEST STEM SHALL BE A MINIMUM OF 14" ABOVE THE GROUND. HYDRANTS PAINTED FACTORY YELLOW MAY NOT REQUIRE ADDITION PAINTING.
 - IF THE PUBLIC WORKS DIRECTOR DETERMINES THAT FIRE HYDRANTS ARE VULNERABLE TO VEHICULAR DAMAGE, APPROPRIATE CRASH POSTS SHALL BE PROVIDED. NO OBSTRUCTIONS SHALL EXIST WITHIN A 3-FOOT WORKING AREA OF EACH REQUIRED ACCESS. CRASH POSTS SHALL BE 4" CEMENT-FILLED PIPE A MIN. OF 3' IN HEIGHT WITH A MIN. OF 2" OF PIPE BELOW GRADE. HYDRANT SHUTOFF VALVES SHALL BE LOCATED BETWEEN 5' AND 20' FROM THE HYDRANT.
 - UNDERGROUND SUPPLIES TO FIRE HYDRANTS MUST BE INSPECTED. SUCH INSPECTION SHALL INCLUDE VISUAL INSPECTION OF PIPING AND HYDROSTATIC PRESSURE TESTING TO A MIN. OF 225 PSI OR 50 PSI IN EXCESS OF STREET MAIN PRESSURE, WHICHEVER IS GREATER. A FLOW TEST WILL BE REQUIRED WHEN INSTALLATION IS COMPLETE.
 - FIRE HYDRANTS MUST BE MAINTAINED IN AN OPERABLE CONDITION AT ALL TIMES AND MUST BE REPAIRED OR REPLACED WHEN DEFECTIVE. HYDRANTS SHALL BE FULLY OPERABLE BEFORE CONSTRUCTION COMMENCES ABOVE GRADE LEVEL.

EROSION CONTROL NOTES

- ALL POSSIBLE MEASURES SHALL BE TAKEN TO MINIMIZE CLEARING AND GRADING THAT EXPOSE SOILS TO EROSION. MAINTAIN EXISTING VEGETATION TO THE MAXIMUM EXTENT POSSIBLE.
- THE CONTRACTOR SHOULD CONSIDER THE POSSIBILITY OF WATER ENTERING THE CONSTRUCTION AREAS, AND SHALL REMEDY THIS BY INSTALLING DRAINAGE FEATURES TO CONVEY AND BY PROVIDING GRADING THAT DIRECTS WATER AWAY FROM CONSTRUCTION AREAS.
- EACH SEDIMENT CONTROL BEST MANAGEMENT PRACTICE (BMP) SHALL BE INSTALLED PRIOR TO ANY CLEARING, GRUBBING, OR SITE GRADING ACTIVITIES.
- SECTION 8-01 OF THE STANDARD SPECIFICATIONS PROVIDES GUIDANCE ON THE INSTALLATION, INSPECTION, AND MAINTENANCE OF BEST MANAGEMENT PRACTICES.
- THE CONTRACTOR SHALL INSTALL AND MAINTAIN TEMPORARY SILT FENCES AT THE LOCATIONS SHOWN IN THE PLANS ACCORDING TO STANDARD PLAN I-30.10-01. SILT FENCES SHALL BE CONSTRUCTED IN THE AREAS OF CLEARING, GRUBBING, OR GRADING PRIOR TO STARTING THOSE ACTIVITIES. THE SILT FENCE SHALL BE PLACED TO PREVENT SOIL CARRIED BY RUNOFF FROM GOING BENEATH, THROUGH, OR OVER THE TOP OF THE SILT FENCE. INSTALL THE FENCE SO THAT ONLY WATER IS ALLOWED TO PASS THROUGH THE FENCE.
- SILT FENCES SHALL BE LOCATED ON CONTOUR AS MUCH AS POSSIBLE, EXCEPT AT THE ENDS OF THE FENCE WHERE THE FENCE SHALL BE TURNED UPHILL SUCH THAT THE SILT FENCE CAPTURES THE RUNOFF WATER AND PREVENTS WATER FROM FLOWING AROUND THE END OF THE FENCE.
- IF THE FENCE MUST CROSS CONTOURS, WITH THE EXCEPTION OF THE ENDS OF THE FENCE, CHECK DAMS PER STANDARD PLAN 1-50.10-00, PLACED PERPENDICULAR TO THE BACK OF THE FENCE, SHALL BE USED TO MINIMIZE CONCENTRATED FLOW AND EROSION ALONG THE BACK OF THE FENCE. CHECK DAMS SHALL BE APPROXIMATELY ONE-FOOT DEEP AT THE BACK OF THE FENCE. DAMS SHALL BE CONTINUED PERPENDICULAR TO THE FENCE AT THE SAME ELEVATION UNTIL THE TOP OF THE CHECK DAM INTERCEPTS THE GROUND SURFACE BEHIND THE FENCE. THE SLOPE OF THE FENCE LINE WHERE CONTOURS MUST BE CROSSED SHALL NOT BE STEEPER THAN 3:1.
- CONTRACTOR SHOULD SEED DISTURBED AREAS THAT HAVE REACHED FINAL GRADE OR THAT WILL REMAIN UNWORKED FOR MORE THAN THIRTY (30) DAYS.
- THE IMPLEMENTATION OF THE TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT, AND UPGRADING OF THE BMPS WITHIN THE PLANS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLANS SHALL BE CLEARLY FLAGGED IN THE FIELD PRIOR TO CONSTRUCTION. DURING THE CONSTRUCTION PERIOD, NO DISTURBANCE BEYOND THE FLAGGED CLEARING LIMITS SHALL BE PERMITTED. THE FLAGGING SHALL BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF CONSTRUCTION.
- THE TESC FACILITIES SHOWN ON THE PLANS MUST BE CONSTRUCTED IN CONJUNCTION WITH ALL CLEARING AND GRADING ACTIVITIES, AND IN SUCH A MANNER AS TO INSURE THAT SEDIMENT-LADEN WATER DOES NOT ENTER THE DRAINAGE SYSTEM OR VIOLATE APPLICABLE WATER STANDARDS.
- THE TESC FACILITIES SHOWN ON THE PLANS ARE THE MINIMUM REQUIREMENTS FOR ANTICIPATED SITE CONDITIONS. DURING THE CONSTRUCTION PERIOD, THESE FACILITIES SHALL BE UPGRADED (E.G., ADDITIONAL SUMPS, RELOCATION OF DITCHES AND SILT FENCES, ETC.) AS NEEDED FOR UNEXPECTED STORM EVENTS.
- THE TESC FACILITIES SHALL BE INSPECTED DAILY BY THE CONTRACTOR AND MAINTAINED AS NECESSARY TO ENSURE THEIR CONTINUED FUNCTION.
- ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF SEVEN (7) DAYS (MAY 1ST - SEPT. 30TH) OR TWO DAYS (OCT. 1ST - APRIL 1ST) SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, SODDING, NETTING, PLASTIC COVERING, EROSION BLANKETS, ETC.).
- ANY AREA NEEDING TESC MEASURES, NOT REQUIRING IMMEDIATE ATTENTION, SHALL BE ADDRESSED WITHIN FIFTEEN (15) DAYS.
- THE TESC FACILITIES ON INACTIVE SITES SHALL BE INSPECTED AND MAINTAINED A MINIMUM OF ONCE A MONTH OR WITHIN THE 48 HOURS FOLLOWING A STORM EVENT.
- AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN. ALL CATCH BASINS AND CONVEYANCE LINES SHALL BE CLEARED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT-LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT THE BEGINNING OF CONSTRUCTION AND MAINTAINED FOR THE DURATION OF THE PROJECT. ADDITIONAL MEASURES MAY BE REQUIRED TO INSURE THAT ALL PAVED AREAS ARE KEPT CLEAN FOR THE DURATION OF THE PROJECT.
- THE CONTRACTOR SHALL OBTAIN A NPDES STORMWATER PERMIT THROUGH THE DEPARTMENT OF ECOLOGY PRIOR TO INITIATING ANY LAND DISTURBING ACTIVITIES.
- THE CONTRACTOR SHALL OBTAIN A LAND DISTURBANCE PERMIT FROM THE WHATCOM COUNTY PLANNING AND DEVELOPMENT SERVICES DEPARTMENT PRIOR TO INITIATING ANY LAND DISTURBING ACTIVITIES OUTSIDE WSDOT RIGHT-OF-WAY.
- THE CONTRACTOR SHALL PROVIDE A CERTIFIED EROSION AND SEDIMENT CONTROL LEAD TO MONITOR AND MAINTAIN ALL BEST MANAGEMENT PRACTICES INCORPORATED INTO THIS PROJECT.

SEQUENCE FOR EROSION CONTROL CONSTRUCTION

- HOLD THE PRE-CONSTRUCTION MEETING.
- POST SIGN WITH NAME AND PHONE NUMBER OF TESC SUPERVISOR (MAY BE CONSOLIDATED WITH THE REQUIRED NOTICE OF CONSTRUCTION SIGN.)
- FLAG OR FENCE CLEARING LIMITS.
- INSTALL CATCH BASIN PROTECTION, IF REQUIRED.
- GRADE AND INSTALL CONSTRUCTION ENTRANCE.
- INSTALL PERIMETER PROTECTION (SILT FENCE) TO DELINEATE CONSTRUCTION AREAS.
- CONSTRUCTION SEDIMENT TRAPS AND TEMPORARY CONVEYANCE SWALES.
- MAINTAIN EROSION CONTROL MEASURES IN ACCORDANCE WITH D.O.E. STANDARDS AND MANUFACTURER'S RECOMMENDATIONS.
- RELOCATE EROSION CONTROL MEASURES, OR INSTALL NEW MEASURES SO THAT AS SITE CONDITIONS CHANGE, SO THAT THEIR CONDITION AND FUNCTION IS ALWAYS IN ACCORDANCE WITH THE STANDARDS.
- COVER ALL AREAS THAT WILL BE UNWORKED FOR MORE THAN SEVEN DAYS DURING THE DRY SEASON OR TWO DAYS DURING THE WET SEASON WITH STRAW, WOOD FIBER, COMPOST, PLASTIC SHEETING, OR EQUIVALENT.
- STABILIZE ALL AREAS WITHIN SEVEN DAYS OF REACHING FINAL GRADE.
- SEED, SOD, STABILIZE, OR COVER ANY AREAS TO REMAIN UNWORKED FOR MORE THAN 30 DAYS.
- UPON COMPLETION OF THE PROJECT, STABILIZE ALL DISTURBED AREAS AND REMOVE BMP'S IF APPROPRIATE.

AS-BUILT

FINAL SITE RESTORATION NOTES

- ALL DISTURBED AREAS OF THE SITE SHALL BE VEGETATED OR OTHERWISE PERMANENTLY STABILIZED. AT A MINIMUM, DISTURBED AREAS SHALL BE SEEDED AND MULCHED WITH A HIGH LIKELY HOOD THAT SUFFICIENT COVER WILL DEVELOP SHORTLY AFTER FINAL CONSTRUCTION ACTIVITY IS COMPLETE.
- STRUCTURAL MEASURES SUCH AS, BUT NOT LIMITED TO, SILT FENCES, PIPE SLOPES DRAINS, CONSTRUCTION ENTRANCES, STORM DRAIN INLET PROTECTION, AND SEDIMENT TRAPS AND PONDS SHALL BE REMOVED FROM THE SITE. MEASURES THAT WILL QUICKLY DECOMPOSE, SUCH AS BRUSH BARRIERS AND ORGANIC MULCHES, MAY BE LEFT IN PLACE. IN THE CASE OF SILT FENCES, IT MAY BE BEST TO REMOVE FENCES IN CONJUNCTION WITH THE SEEDING, SINCE IT MAY BE NECESSARY TO BRING MACHINERY BACK IN TO REMOVE THEM. THIS WILL RESULT IN DISTURBED SOILS THAT WILL AGAIN REQUIRE PROTECTION.
- ALL PERMANENT SURFACE WATER FACILITIES, INCLUDING CATCH BASINS, MANHOLES, PIPES, DITCHES, CHANNELS, R/D FACILITIES, AND WATER QUALITY FACILITIES, SHALL BE CLEANED. ANY OFFSITE CATCH BASIN THAT REQUIRED PROTECTION DURING CONSTRUCTION SHALL ALSO BE CLEANED.

ENGINEER'S CERTIFICATION

"I HEREBY CERTIFY THAT THE IMPROVEMENTS IN "DOUGLAS LONG PLAT PHASE 2" HAVE BEEN INSPECTED BY RONALD T. JEPSON AND ASSOCIATES AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE."

RONALD T. JEPSON P.E., L.S.

CERTIFICATE NO. 9361

SURVEYOR'S CERTIFICATION

"I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: 07/21/2007."

RONALD T. JEPSON P.E., L.S.

CERTIFICATE NO. 9361

NOTE: NO CHANGES WERE MADE TO THIS SHEET TO DOCUMENT DEVIATIONS FROM THE APPROVED PLANS.

REVISIONS

DESIGNED BY	BJW
DRAWN BY	AH
DATE:	
RONALD T. JEPSON ENGINEER	
RCE:	9361

STATE OF WASHINGTON
PROFESSIONAL ENGINEER
0011
RD 12512

ASBUILT
FOR RECORD

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GENERAL NOTES

DOUGLAS LONG PLAT PHASE 2

DOUGLAS/CHURCH ROAD, FERNDALE

COUNTY OF WHATCOM.

WASHINGTON

SCALE: AS SHOWN

DATE: 10/5/11

SHEET: GN-1

WO: 05055