



www.psesurvey.com
EMAIL: pse@psurvey.com

PACIFIC SURVEY & ENGINEERING INC
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685

WHISKEY CREEK PLAT

CITY OF FERNDALE, WASHINGTON

SITUATE IN A PORTION OF THE SE 1/4 OF SECTION 17, TOWNSHIP 39 NORTH,
RANGE 2 EAST, W.M., CITY OF FERNDALE, WHATCOM COUNTY, WASHINGTON

ROADWAY & UTILITY IMPROVEMENT PLANS

SURVEY NOTES

- DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION.
- EQUIPMENT USED: THEOMAT 00'01.5" EDM: ± 2 PPM, ± 3 MM
- HORIZONTAL DATUM: CITY OF FERNDALE COMPREHENSIVE MAPPING BASIS OF BEARINGS: NAD 83/91 WA. ST. NORTH ZONE MEASURED BEARING BETWEEN CITY OF FERNDALE PRIMARY CONTROL MONUMENTS "FERN 06" AND "FERN 03". BEARING: N00°45'53"E
- VERTICAL DATUM: NGVD 29 (CITY OF FERNDALE) BENCH MARK: WSDOT GP37005-33, ELEV.=71.21' (NGVD 29)
- TBM ON SITE: POWER POLE #9317 IN E. SIDE OF PORTAL WAY, ADJACENT TO PROJECT SITE. ELEV.= 50.26' (NGVD 29)
- CONTOUR INTERVAL IS ONE-FOOT AND ARE COMPUTER GENERATED FROM GROUND FIELD TOPOGRAPHY GATHERED FOR THIS SURVEY UTILIZING ELECTRONIC DATA COLLECTION.
- EXTERIOR BOUNDARY INFORMATION IS SHOWN DIRECTLY FROM THE "WHISKEY CREEK LOT LINE ADJUSTMENT," AS PER THE MAP THEREOF, RECORDED UNDER WHATCOM COUNTY AUDITOR'S FILE NUMBER 2050404305. (PSE HAS NOT REVIEWED SAID LOT LINE ADJUSTMENT, NOR IS IT WITHIN OUR SCOPE OF WORK, AND THEREBY CAN ASSUME NO LIABILITY FOR THE CONTENT THEREON)
- PSE FIELD CREWS LOCATED THE BASE FLOOD ELEVATION CONTOUR LINE AND WETLANDS FLAGGING IN FEBRUARY AND APRIL 2005, RESPECTIVELY.
- WETLANDS SHOWN HEREON ARE AS DELINEATED IN THE FIELD BY AQUA TERR SERVICES INC. IN APRIL 2005.
- PACIFIC SURVEYING AND ENGINEERING INC., ASSUMES NO LIABILITY FOR ANY SUBSURFACE CONDITIONS OR FEATURES THAT MAY EXIST THAT ARE UNDETECTABLE AND/OR NOT VISIBLE.

ROAD INTERSECTION EQUATIONS

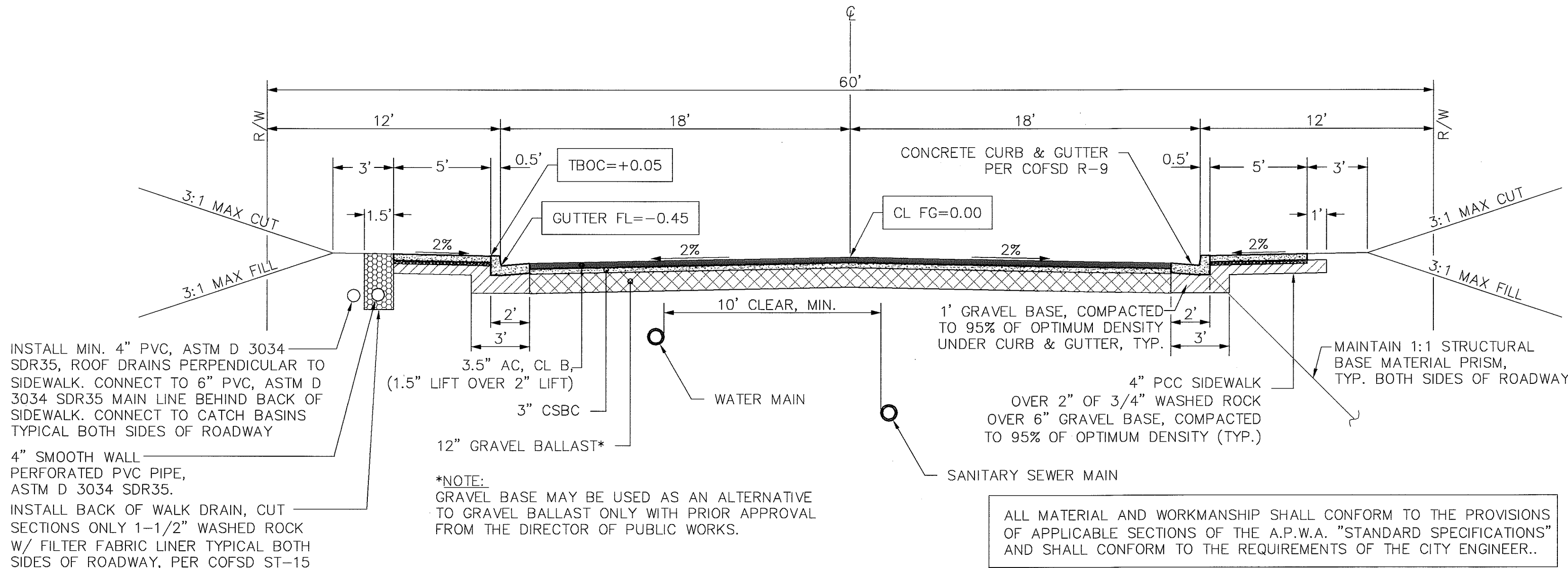
STA 10+00.00 'A' STREET = STA 3+00.00 PORTAL WAY
STA 13+21.80 'A' STREET = STA 90+00.00 NORTH STUB
STA 19+23.82 'A' STREET = STA 40+00.00 'B' STREET
STA 43+72.75 'B' STREET = STA 60+00.00 'C' COURT
STA 46+86.37 'B' STREET = STA 80+00.00 'D' COURT

ABBREVIATIONS

AC	ASPHALT CONCRETE	PRC	POINT OF REVERSE CURVATURE
B/C	BACK OF CURB	PT	POINT OF TANGENCY = END CURVE
BOR	BEGIN CURB RETURN	PVI	POINT OF VERTICAL INTERSECTION
BOW	BACK OF SIDEWALK	PVMT	PAVEMENT
BVC	BEGIN VERTICAL CURVE	R	CURVE RADIUS
C&G	CURB AND GUTTER	R/W	RIGHT OF WAY
CL	CENTERLINE OR CLASS	RT	RIGHT
COFSD	CITY OF FERNDALE STANDARD DRAWING	SD	STORM DRAIN
CP	CORRUGATED POLYETHYLENE PIPE	SDCB	STORM DRAIN CATCH BASIN
D	CURVE DELTA	SSCO	SANITARY SEWER CLEAN-OUT
ECR	END CURB RETURN	SSMH	SANITARY SEWER MANHOLE
EG	EXISTING GRADE	SWK	SIDEWALK
EP	EDGE OF PAVEMENT	STA	STATION
EVC	END VERTICAL CURVE	STD	STANDARD
EXST	EXISTING	TBC	TOP BACK OF CURB
F&G	FRAME AND GRATE	TFC	TOP FACE OF CURB
FH	FIRE HYDRANT	TC	TOP OF CURB
F/C	FACE OF CURB	T/P	TOP OF PIPE
FF	FINISH FLOOR	TYP.	TYPICAL
FG	FINISH GRADE	WL	WATER LINE
FL	FLOWLINE OR FLANGE		
I.E.	INVERT ELEVATION		
INV	INVERT		
L	CURVE LENGTH		
LT	LEFT		
MJ	MECHANICAL JOINT		
NTS	NOT TO SCALE		
PC	POINT OF CURVATURE = BEGIN CURVE		
PCC	POINT OF COMPOUND CURVATURE		

STREET NAME ABBREVIATIONS:

PRTL	PORTAL WAY
'A'	'A' STREET = MCKINLEY ST/CT
'B'	'B' STREET = NICKLES STREET
'C'	'C' COURT = EVELYN COURT
'D'	'D' COURT = BILLIE COURT



TYPICAL ROADWAY SECTION ~ RESIDENTIAL STREETS

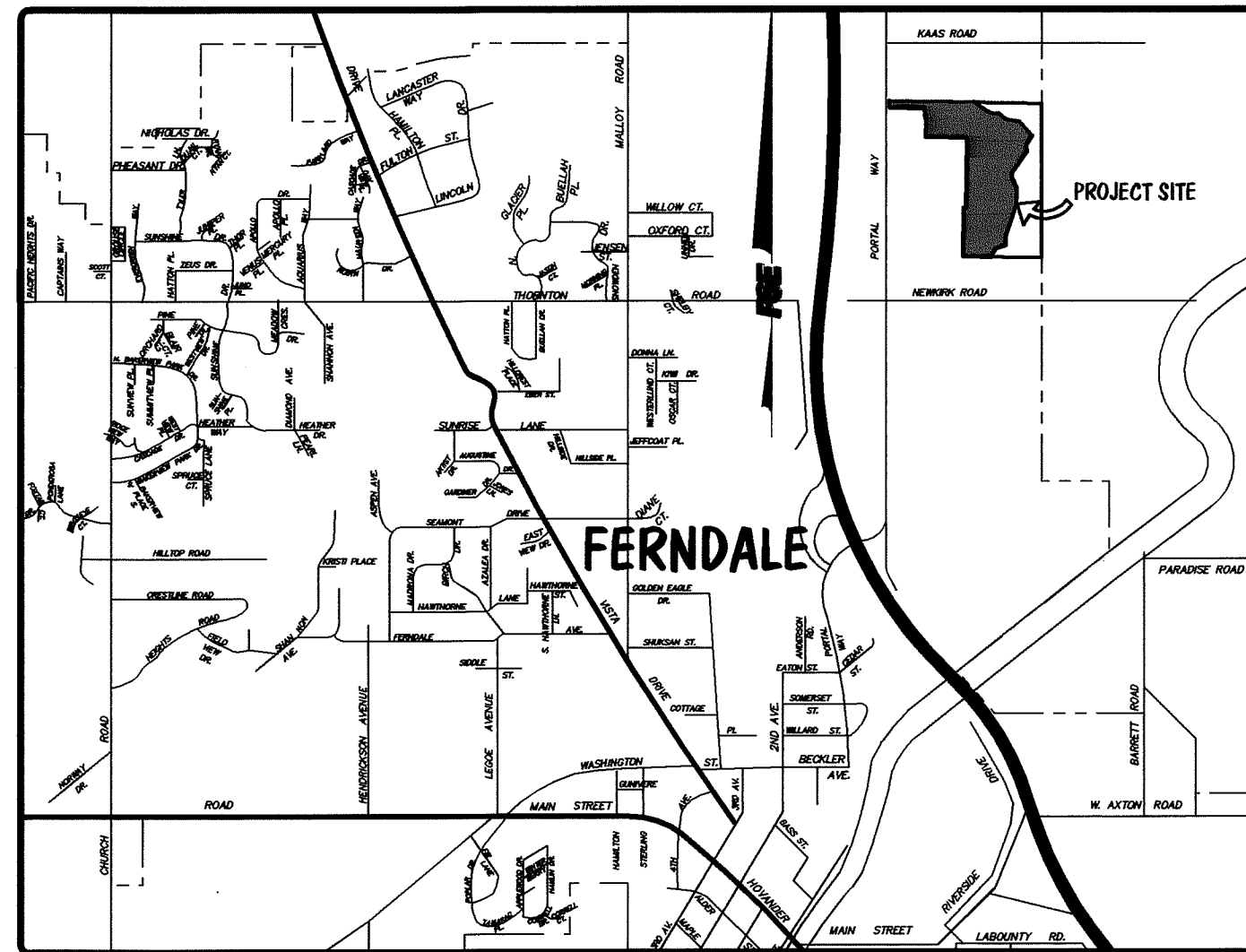
NOT TO SCALE

PROPOSED FEATURE SYMBOL LEGEND

⊙	= PROPOSED SURVEY MONUMENT	—	= PROPOSED STREET SIGN
⊙	= PROPOSED STORM DRAIN CATCH BASIN, TYPE 2	—	= PROPOSED TYPE 3 BARRICADE
⊙	= PROPOSED STORM DRAIN CATCH BASIN, TYPE 1	—	= PROPOSED SINGLE SANITARY SEWER SERVICE
⊙	= PROPOSED SANITARY SEWER MANHOLE	—	= PROPOSED DRIVEWAY
⊙	= PROPOSED SANITARY SEWER CLEANOUT	—	= PROPOSED TEE, MJ x FL
⊙	= PROPOSED DOUBLE WATER SERVICE	—	= PROPOSED TEE, FL
⊙	= PROPOSED SINGLE WATER SERVICE	—	= PROPOSED 22.5' BEND, MJ
⊙	= PROPOSED GATE VALVE	—	= PROPOSED 22.5' BEND, FL
⊙	= PROPOSED WATER BLOW-OFF ASSEMBLY	—	= PROPOSED 11.25' BEND, FL
⊙	= PROPOSED REDUCER	—	= PROPOSED FL x MJ ADAPTER
⊙	= PROPOSED FIRE HYDRANT		
⊙	= PROPOSED STREETLIGHT		

PROPOSED LINE LEGEND

—	= PROPOSED ROADWAY CENTERLINE
—	= PROPOSED RIGHT OF WAY LINE
—	= PROPOSED EASEMENT LINE
—	= PROPOSED EDGE OF ASPHALT
—	= PROPOSED CURB & GUTTER
—	= PROPOSED BACK OF SIDEWALK
—	= PROPOSED STORM DRAIN LINE
—	= PROPOSED SANITARY SEWER LINE
—	= PROPOSED WATER LINE
—	= PROPOSED BACK OF WALK DRAIN
—	= PROPOSED EDGE OF GRAVEL
—	= PROPOSED CUT/FILL SLOPES



VICINITY MAP

NOT TO SCALE

AS BUILT CERTIFICATION
I hereby certify that the improvements in Whiskey Creek have been inspected by Pacific Survey and Engineering, Inc., and constructed in conformance with the plans approved by the Public Works Director for said development and the general specifications adopted by the City of Ferndale Department of Public Works.

JEFFREY A. VANDER YACHT, P.E.

SHEET INDEX

- COVER SHEET
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- 'A' STREET ~ STATIONS 13+75 to 18+00
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- 'B' STREET ~ STATIONS 40+00 to 43+00
- 'B' STREET ~ STATIONS 43+00 to 47+50
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- 'D' COURT
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- STORMWATER MANAGEMENT FACILITY DETAILS ~ SOUTH POND
- STORMWATER MANAGEMENT FACILITY DETAILS ~ SOUTH POND
- SANITARY SEWER LIFT STATION DETAILS:
- SANITARY SEWER LIFT STATION DETAILS
- SANITARY SEWER LIFT STATION DETAILS
- SANITARY SEWER LIFT STATION DETAILS
- TEMPORARY EROSION & SEDIMENT CONTROL:
- TEMPORARY EROSION & SEDIMENT CONTROL PLAN
- TEMPORARY EROSION & SEDIMENT CONTROL DETAILS
- NOTES & DETAILS:
- ROADWAY & SURFACE IMPROVEMENT DETAILS
- SANITARY SEWER & STORM DRAINAGE DETAILS
- WATER SYSTEM DETAILS
- GENERAL CONSTRUCTION NOTES

AS-BUILT NOTE:
ONLY INFORMATION NOTED AS
"AB" HAS BEEN FIELD SURVEYED
OR MEASURED DURING CONSTRUCTION.

AS-BUILT
DRAWING

APPROVED

MAY 04, 2008
CITY OF FERNDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: N.A.					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: N.A.					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
				DWG: P:\PSE Project\2005054\DWGS\COVER_NOTES_DETAILS_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									

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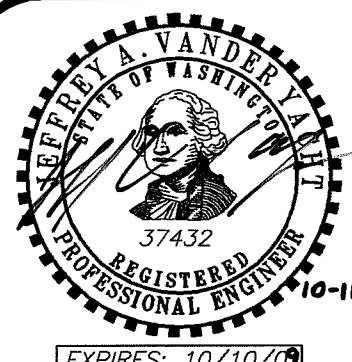
CROWN POINT
HOLDINGS, INC.
6540 NORTH STAR ROAD
FERNDALE, WASHINGTON 98248

WHISKEY CREEK PLAT
ROADWAY & UTILITY IMPROVEMENT PLANS
COVER SHEET

JOB #: 2005054

COF PROJECT NO. LP 2006-03

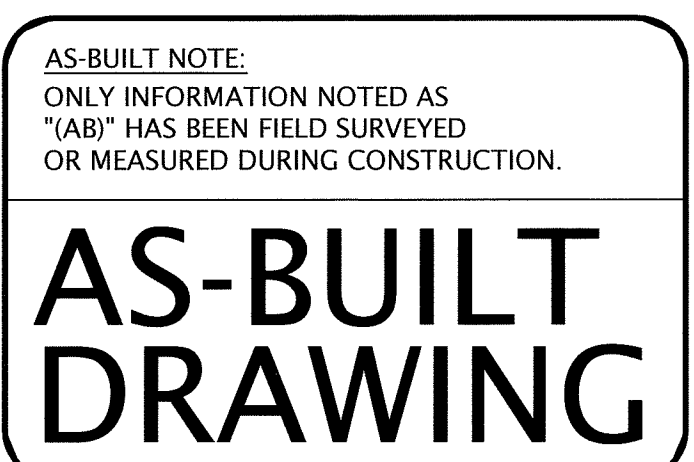
SHEET 1 OF 34



- = EXISTING MONUMENT (AS NOTED)
- = EXISTING/SET TEMPORARY BENCHMARK/BENCHMARK
- = EXISTING STORM DRAIN CATCH BASIN MANHOLE
- = EXISTING CATCH BASIN
- = EXISTING SANITARY SEWER MANHOLE
- = EXISTING SANITARY SEWER SERVICE
- = EXISTING GATE VALVE
- = EXISTING WATER METER
- = EXISTING FIRE HYDRANT
- = EXISTING POWER POLE
- = EXISTING POWER POLE W/DROP
- = EXISTING GROUND GUY
- = EXISTING TELEPHONE PEDESTAL/RISER
- = EXISTING LANDSCAPE TREE/UNKNOWN SPECIES TREE
- = EXISTING FRUIT TREE

=====	= EXISTING ROADWAY CENTERLINE
=====	= EXISTING RIGHT OF WAY LINE
=====	= EXISTING EDGE OF ASPHALT
=====	= EXISTING EDGE OF CONCRETE
=====	= EXISTING CONCRETE PAD
=====	= EXISTING EDGE OF GRAVEL ROAD
=====	= EXISTING EDGE OF DIRT ROAD
=====	= EXISTING STORM CULVERT
=====	= EXISTING STORM DRAIN LINE
=====	= EXISTING SANITARY SEWER LINE
=====	= EXISTING WATER LINE
=====	= EXISTING OVERHEAD ELECTRIC LINES
=====	= EXISTING UNDERGROUND POWER
UTV	= EXISTING UNDERGROUND TV CABLE LINE
OTV	= EXISTING OVERHEAD TV CABLE LINE
UCM	= EXISTING UNDERGROUND COMMUNICATIONS LINE
OCM	= EXISTING OVERHEAD COMMUNICATIONS LINE
UPL	= EXISTING UNDERGROUND TELEPHONE LINE
OPH	= EXISTING OVERHEAD TELEPHONE LINE
UTR	= EXISTING UNDERGROUND TRAFFIC SIGNAL LINE
UFO	= EXISTING UNDERGROUND FIBER OPTIC LINE
OFO	= EXISTING OVERHEAD FIBER OPTIC LINE
G	= EXISTING UNDERGROUND GAS LINE
UFL	= EXISTING UNDERGROUND FUEL LINE
=====	= EXISTING FLOW LINE
~~~~~	= EXISTING EDGE OF TREES & BRUSH
=====	= EXISTING EDGE OF LANDSCAPED AREA
○	= EXISTING CHAINLINK FENCE
□ * □	= EXISTING WOOD FENCE

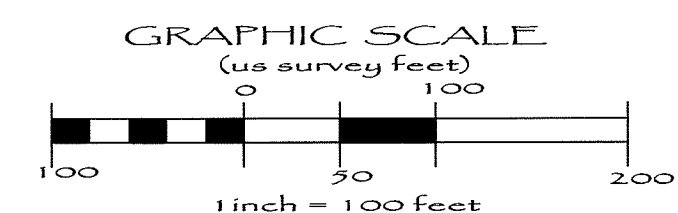
- 1) DATA FOR THIS SURVEY WAS GATHERED BY FIELD TRAVERSE UTILIZING ELECTRONIC DATA COLLECTION.
- 2) EQUIPMENT USED: THEOMAT 00'01.5"  
EDM: ± 2 PPM, ± 3 MM
- 3) HORIZONTAL DATUM: CITY OF FERNDALE COMPREHENSIVE MAPPING  
BASIS OF BEARINGS: NAD 83/91 WA. ST. NORTH ZONE  
MEASURED BEARING BETWEEN CITY OF FERNDALE PRIMARY CONTROL  
MONUMENTS "FERN 06" AND "FERN 03".  
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- 5) CONTOUR INTERVAL IS ONE-FOOT AND ARE COMPUTER GENERATED FROM GROUND  
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- 8) WETLANDS SHOWN HEREON ARE AS DELINEATED IN THE FIELD BY AQUA TERR  
SERVICES INC. IN APRIL 2005.
- 9) PACIFIC SURVEYING AND ENGINEERING INC., ASSUMES NO LIABILITY FOR ANY  
SURVEYING CONDITIONS OR FEATURES THAT MAY EXIST THAT ARE  
UNDETECTABLE AND/OR NOT VISIBLE.



**AS-BUILT NOTE:**  
ONLY INFORMATION NOTED AS  
"(AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

APPROVED  
MAY 26 2009  
RC  
TY OF FERNDALE



FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: N.A.					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JYY	VERT: N.A.					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
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SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK						REVISIONS			ISSUE

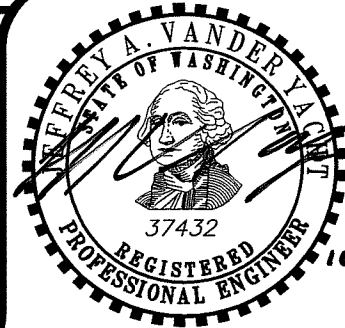


**CROWN POINT  
HOLDINGS, INC.**  
6540 NORTH STAR ROAD  
FERNDALE, WASHINGTON 98248

# WHISKEY CREEK PLAT ROADWAY & UTILITY IMPROVEMENT PLANS EXISTING CONDITIONS MAP

JOB #: 2005054

SHEET 2 OF 34



EXPIRES: 10/10/09

**AS-BUILT NOTE:**  
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"(AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION

# AS-BUILT DRAWING

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
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STAKING:				DESIGN	BEA	JVY	VERT: N.A.					2	AS-BUILT DRAWINGS 07/02/01
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/01
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM			PLAN CHECK		REVISIONS					ISSUE		

**CONSTRUCTION NOTES:**

- 1) THE SITE SHALL BE CLEARED TO THE CLEARING LIMITS SHOWN ON THE TEMPORARY EROSION AND SEDIMENT CONTROL PLAN (SHEET 29) EXCEPT WHERE PRESERVATION OF NATURAL VEGETATION IS NOTED.
- 2) GRUBBING SHALL BE LIMITED TO AREAS REQUIRED FOR CONSTRUCTION OF ROADWAYS, PONDS, AND UTILITIES IN ADDITION TO THE GRUBBING OF LOTS 12 THROUGH 37 THAT IS REQUIRED FOR PREPARATION OF EMBANKMENT FILL.
- 3) STRUCTURES AND OBSTRUCTIONS WITHIN THE CLEARING LIMITS SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.

**EASEMENT NOTES:**

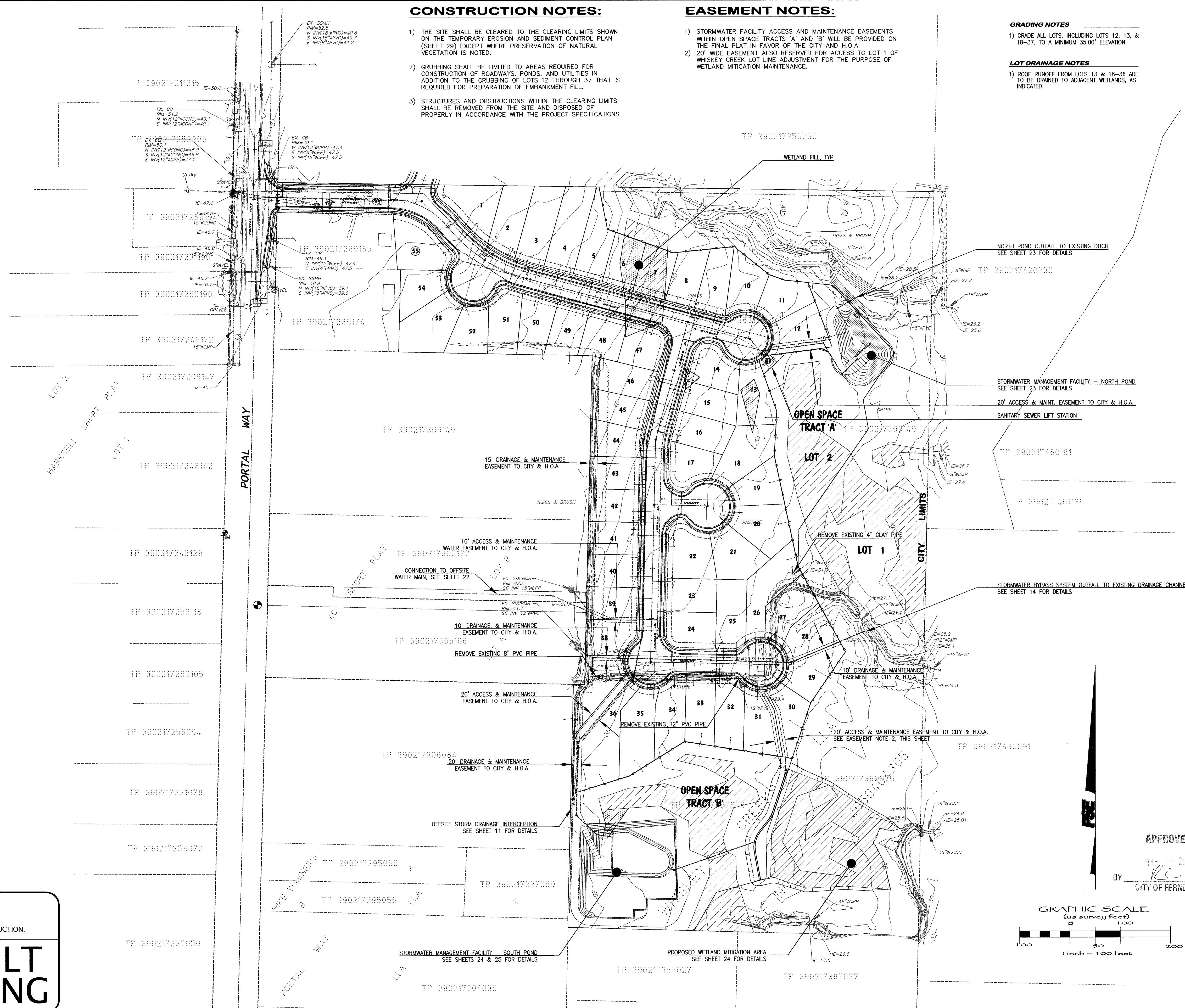
- 1) STORMWATER FACILITY ACCESS AND MAINTENANCE EASEMENTS WITHIN OPEN SPACE TRACTS 'A' AND 'B' WILL BE PROVIDED ON THE FINAL PLAT IN FAVOR OF THE CITY AND H.O.A.
- 2) 20' WIDE EASEMENT ALSO RESERVED FOR ACCESS TO LOT 1 OF WHISKEY CREEK LOT LINE ADJUSTMENT FOR THE PURPOSE OF WETLAND MITIGATION MAINTENANCE.

**GRADING NOTES**

- GRADING NOTES**
- 1) GRADE ALL LOTS, INCLUDING LOTS 12, 13, & 18-37, TO A MINIMUM 35.00' ELEVATION.

**LOT DRAINAGE NOTES**

- 1) ROOF RUNOFF FROM LOTS 13 & 18-36 ARE TO BE DRAINED TO ADJACENT WETLANDS, AS INDICATED.



APPROVED

BY RC  
CITY OF FERNDALE

GRAPHIC SCALE  
(us survey feet)

0 50 100 200

1 inch = 100 feet

CALL BEFORE YOU DIG



**CROWN POINT  
HOLDINGS, INC.**  
6540 NORTH STAR ROAD  
FERNDALE, WASHINGTON 98248

# WHISKEY CREEK PLAT

## ROADWAY & UTILITY IMPROVEMENT PLANS

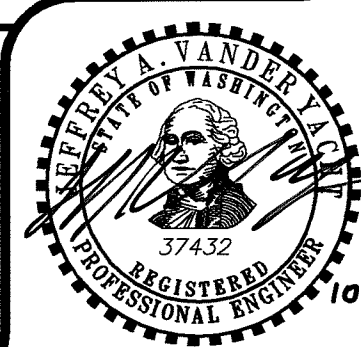
### PROJECT OVERVIEW

### MAP

JOB #: 2005054

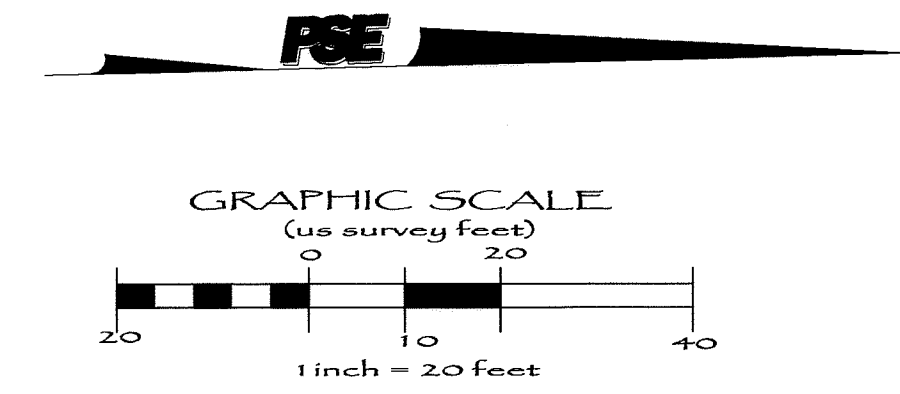
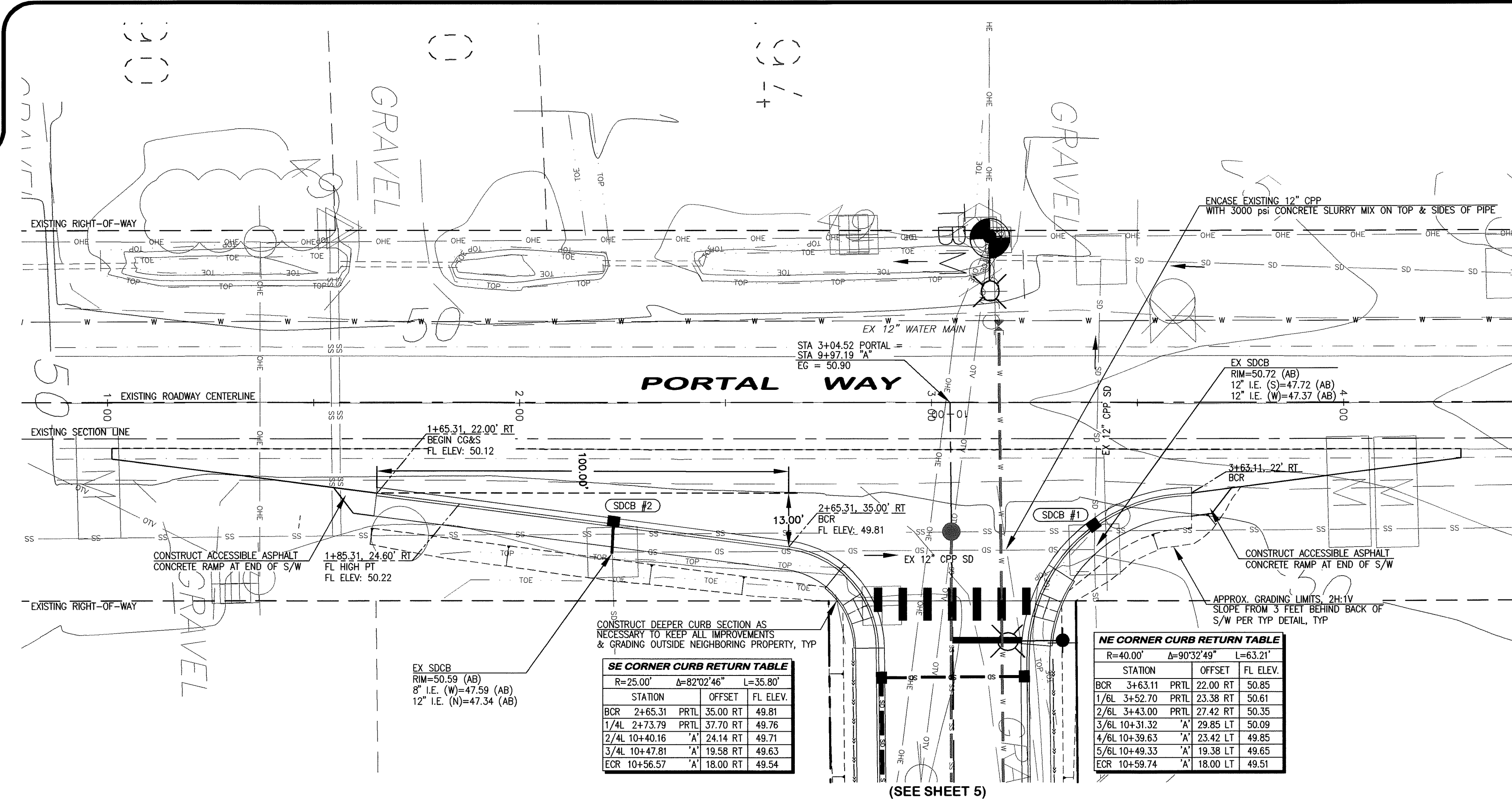
COF PROJECT NO. LP 2006-03

SHEET 3 OF 34

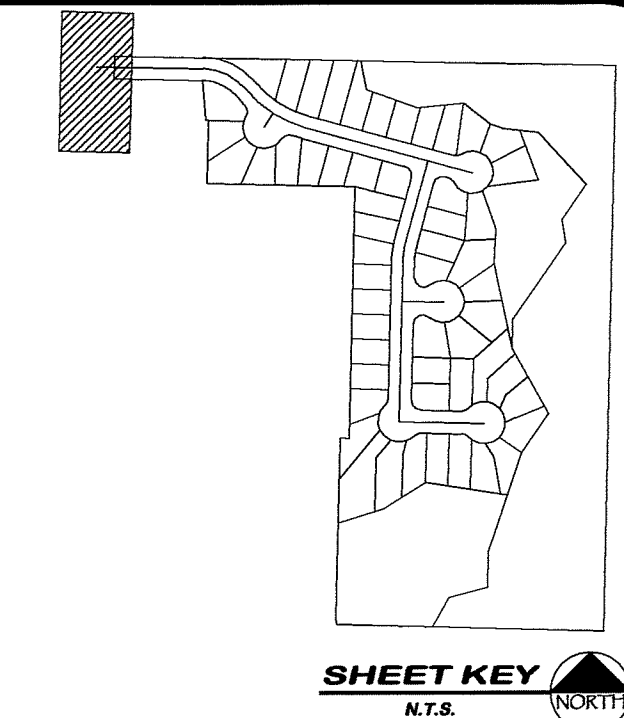


EXPIRES: 10/10/0

00390.003 7.10.09 DD



**STORM DRAINAGE NOTES**  
**SDCB #1**  
3+38.69, 30.24' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
RIM=50.17 (AB)  
12" I.E. (E)=47.17 (AB)  
12" I.E. (W)=47.07 (AB)  
**SDCB #2**  
2+22.77, 29.45' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
RIM=49.98 (AB)  
8" I.E. (E)=47.58 (AB)

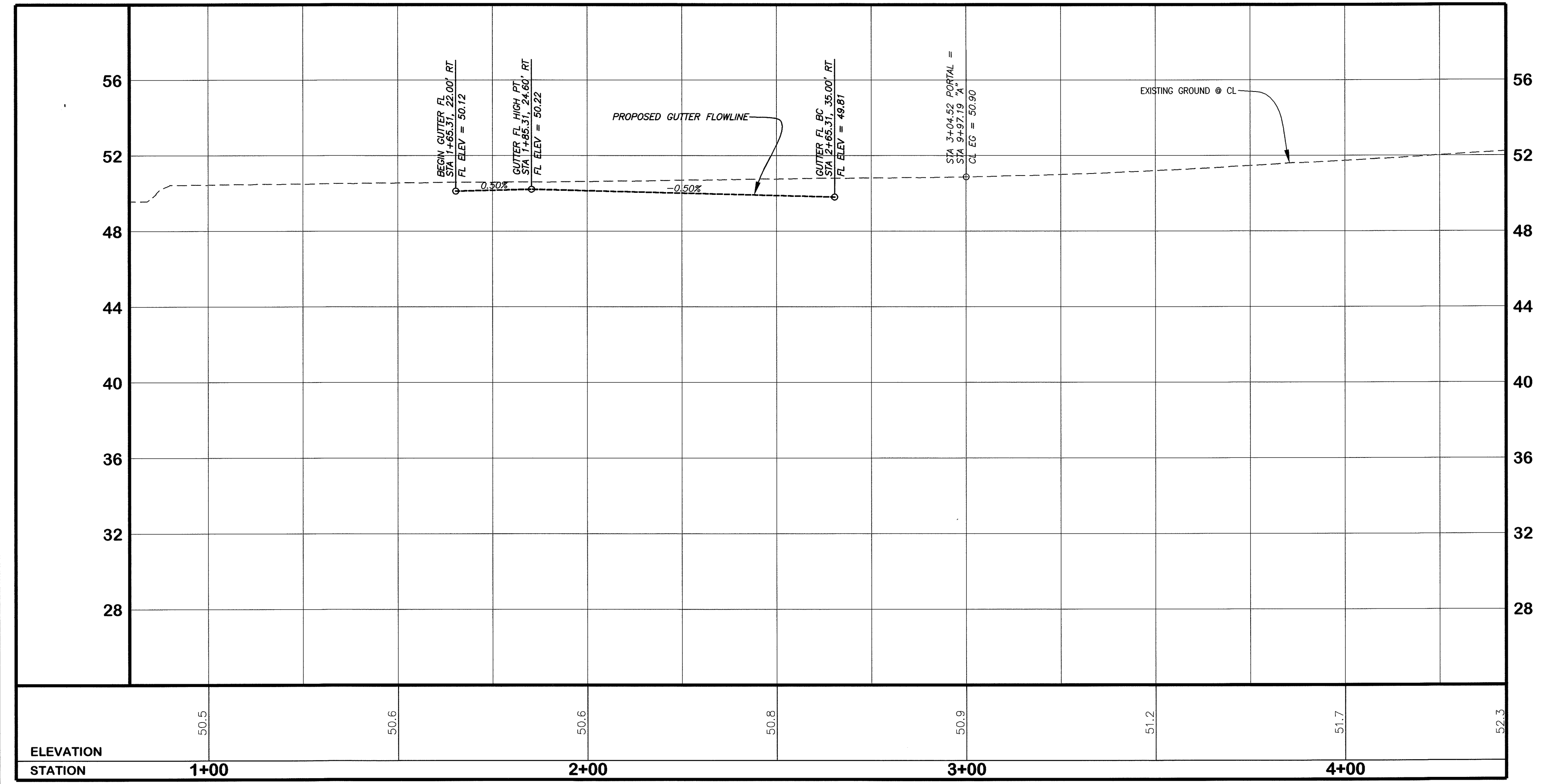


**SE CORNER CURB RETURN TABLE**  
R=25.00' b=82°02'46" L=35.80'

STATION	OFFSET	FL ELEV.
BCR 2+65.31	PTL 35.00 RT	49.81
1/4L 2+73.79	PTL 37.70 RT	49.76
2/4L 10+40.16	A' 24.14 RT	49.71
3/4L 10+47.81	A' 19.58 RT	49.63
ECR 10+56.57	A' 18.00 RT	49.54

**NE CORNER CURB RETURN TABLE**  
R=40.00' b=90°32'49" L=63.21'

STATION	OFFSET	FL ELEV.
BCR 3+63.11	PTL 22.00 RT	50.85
1/6L 3+52.70	PTL 23.38 RT	50.61
2/6L 3+43.00	PTL 27.42 RT	50.35
3/6L 10+31.32	A' 29.85 LT	50.09
4/6L 10+39.63	A' 23.42 LT	49.85
5/6L 10+49.33	A' 19.38 LT	49.65
ECR 10+58.74	A' 18.00 LT	49.51



HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

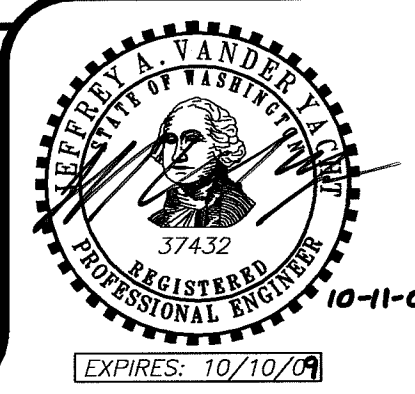
APPROVED  
BY   
CITY OF FERNDAL

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									



CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

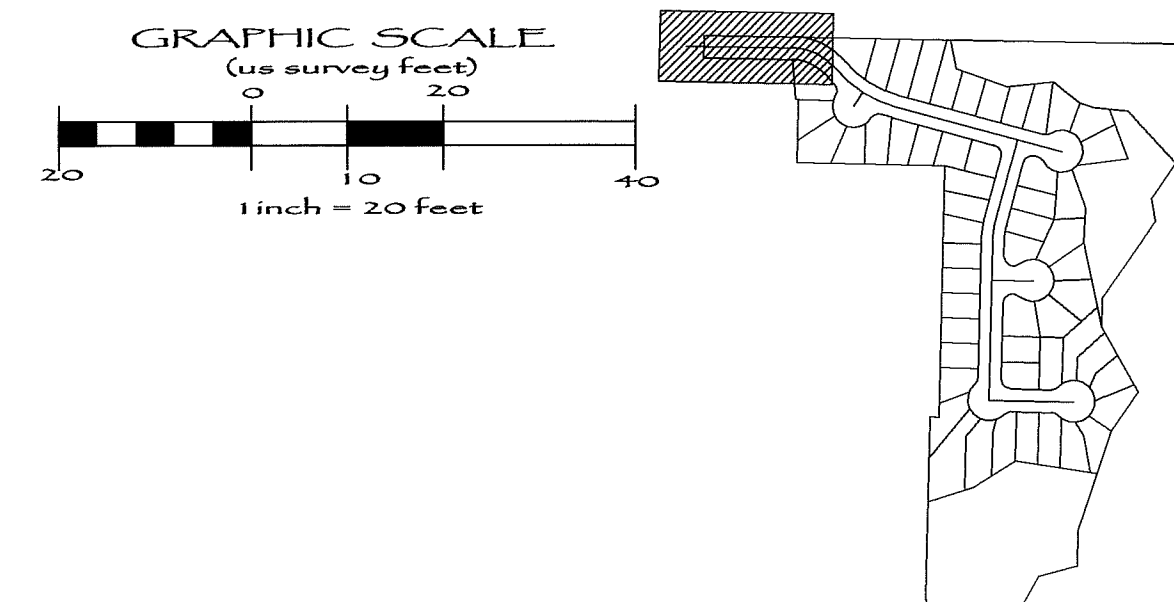
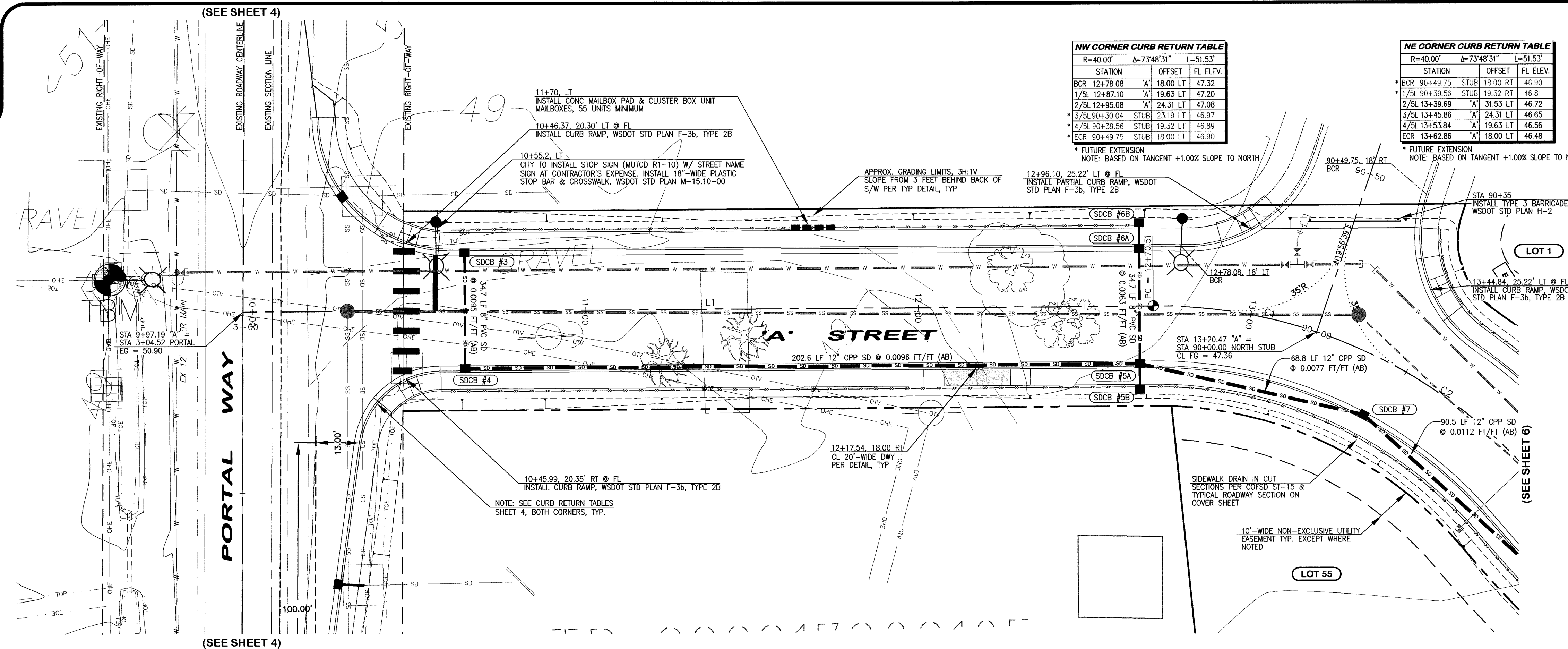
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**PORTAL  
WAY**  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 4 OF 34





www.psesurvey.com  
EMAIL: pse@psurvey.com

PACIFIC SURVEY & ENGINEERING INC  
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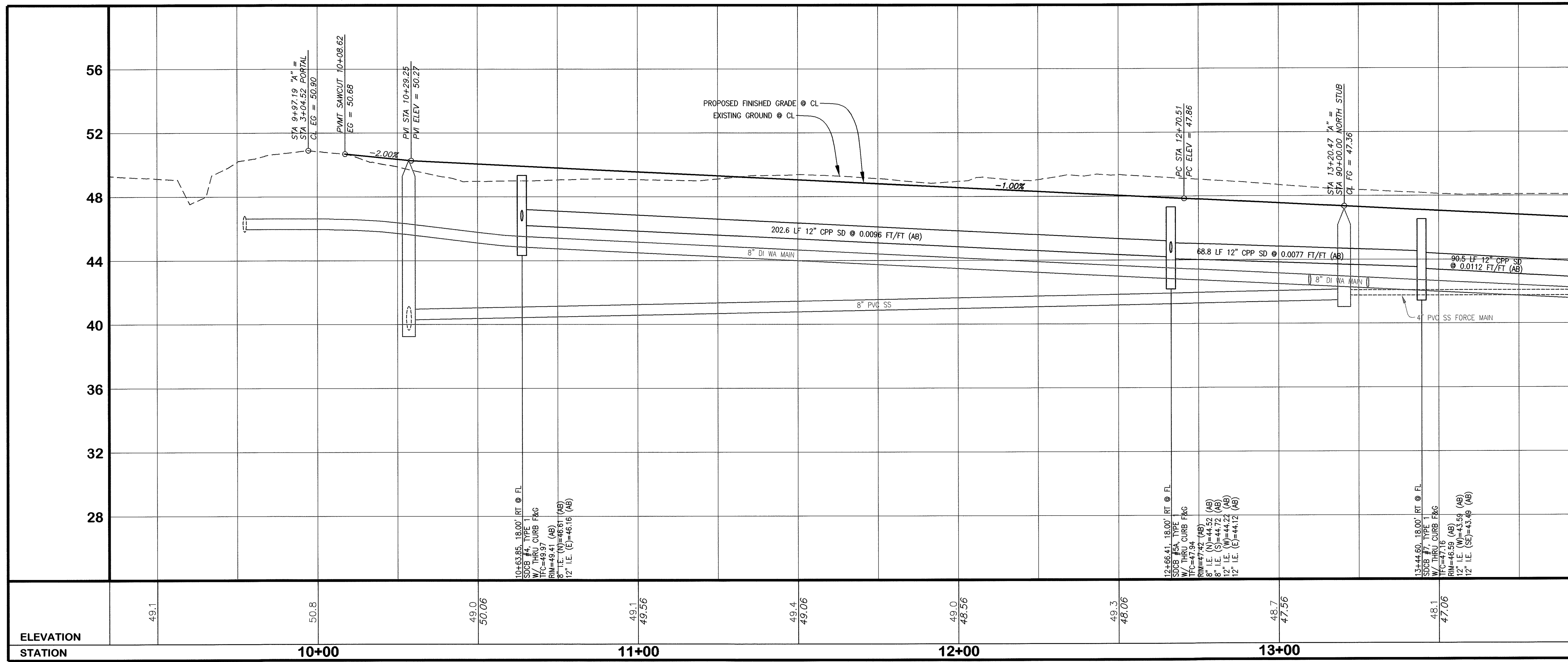


STORM DRAINAGE NOTES

- SDCB #3**  
10+63.85, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
ITC=49.97  
RM=49.34 (AB)  
8" I.E. (S)=46.94 (AB)
- SDCB #4**  
10+63.85, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
ITC=49.97  
RM=49.41 (AB)  
8" I.E. (N)=46.61 (AB)  
12" I.E. (E)=46.16 (AB)
- SDCB #5A**  
12+66.41, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
ITC=47.94  
RM=47.42 (AB)  
8" I.E. (N)=44.52 (AB)  
8" I.E. (S)=44.72 (AB)  
12" I.E. (W)=44.22 (AB)  
12" I.E. (E)=44.12 (AB)
- SDCB #5B**  
12+66.41, 25.04' RT @ CTR  
TYPE 1 W/ STD F&G  
RM=48.08 (AB)  
8" I.E. (N)=44.68 (AB)
- SDCB #6A**  
12+66.41, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
ITC=47.94  
RM=47.54 (AB)  
8" I.E. (N)=45.14 (AB)  
8" I.E. (S)=44.74 (AB)
- SDCB #6B**  
12+66.41, 25.04' LT @ CTR  
TYPE 1 W/ STD F&G  
RM=47.99 (AB)  
8" I.E. (S)=45.14 (AB)
- SDCB #7**  
13+44.60, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
ITC=47.16  
RM=46.59 (AB)  
12" I.E. (W)=43.59 (AB)  
12" I.E. (S)=43.49 (AB)

LINE TABLE - ROADWAY CENTERLINE			
LINE	LENGTH	BEARING	DESCRIPTION
L1	273.33'	S89°08'19"E	"A" STREET

CURVE TABLE - ROADWAY CENTERLINE			
CURVE	DELTA	RADIUS	LENGTH
C1	19°04'58"	150.00'	49.96'
C2	31°23'36"	150.00'	82.19'

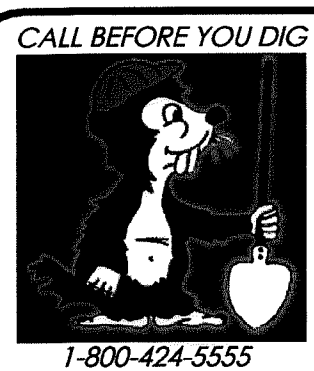


AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

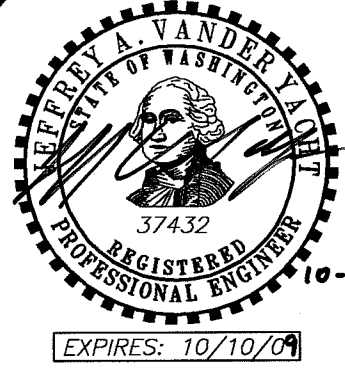
APPROVED  
BY: [Signature]  
CITY OF FERDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENC_BASE_AB.dwg									



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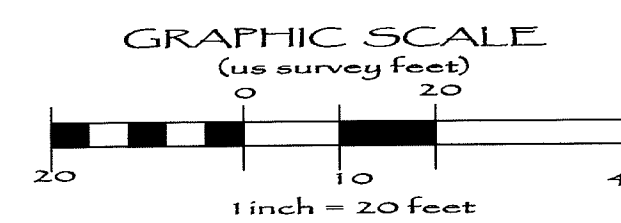
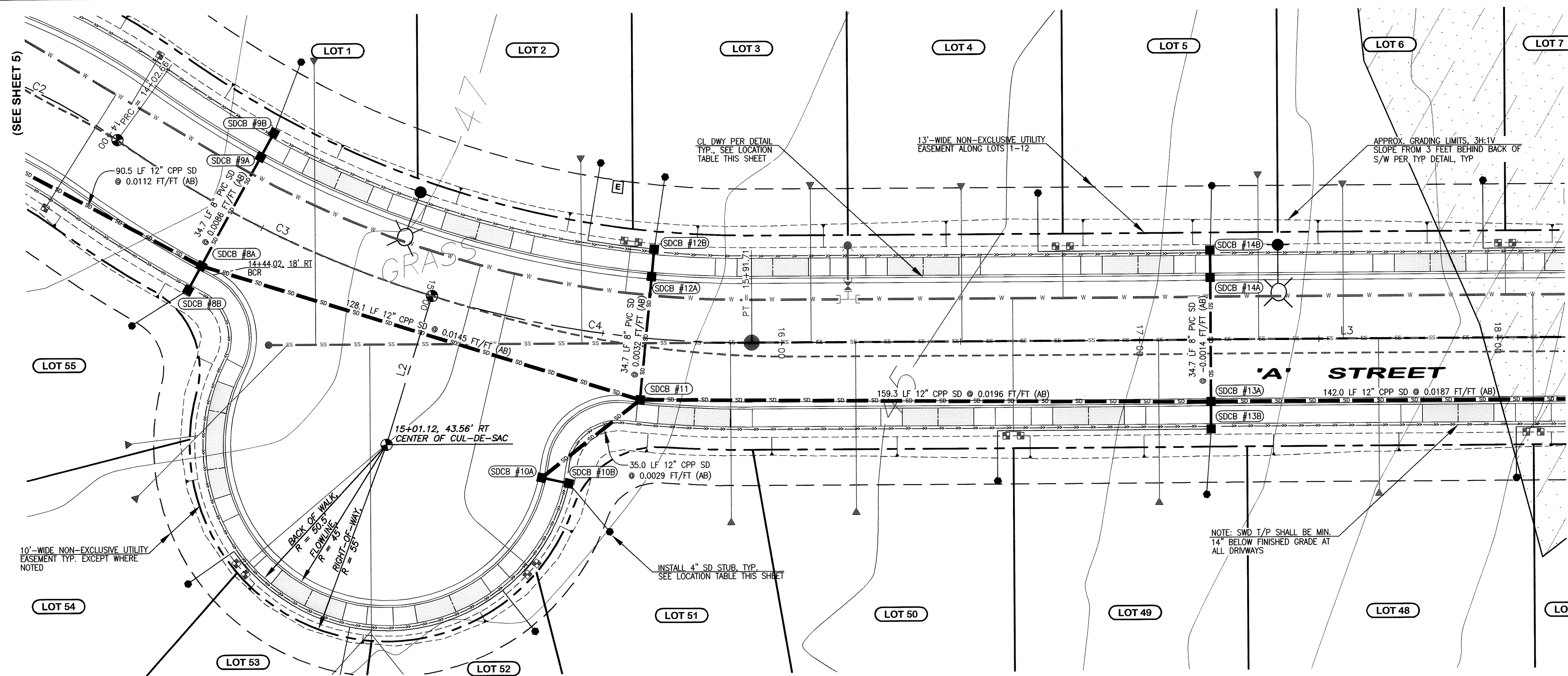
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
"A" STREET ~ STATIONS  
10+00 to 13+75  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 5 OF 34





www.psesurvey.com  
EMAIL: pse@psurvey.com

PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685



SHEET KEY  
N.T.S.

#### STORM DRAINAGE NOTES

**SDCB #8A**  
14+40.14, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=46.02  
RM=45.51 (AB)  
8" I.E. (NE)=42.51 (AB)  
8" I.E. (SW)=42.61 (AB)  
12" I.E. (NW)=42.41 (AB)  
12" I.E. (SE)=42.31 (AB)

**SDCB #8B**  
14+40.14, 25.04' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=46.04 (AB)  
8" I.E. (NE)=42.84 (AB)

**SDCB #9A**  
14+40.14, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=46.02  
RM=45.51 (AB)  
8" I.E. (NE)=42.51 (AB)  
8" I.E. (SW)=42.61 (AB)

**SDCB #9B**  
14+40.14, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=46.03 (AB)  
8" I.E. (SW)=42.58 (AB)

**SDCB #10A**  
15+40.49, 42.56' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=44.15  
RM=43.65 (AB)  
8" I.E. (E)=40.75 (AB)  
12" I.E. (NE)=40.85 (AB)

**SDCB #10B**  
15+46.64, 42.94' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=44.47 (AB)  
8" I.E. (W)=41.17 (AB)

**SDCB #11**  
15+62.10, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=44.15  
RM=43.65 (AB)  
8" I.E. (N)=40.75 (AB)  
12" I.E. (SW)=40.75 (AB)  
12" I.E. (NW)=40.45 (AB)  
12" I.E. (E)=40.35 (AB)

**SDCB #12A**  
15+62.10, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=44.15  
RM=43.65 (AB)  
8" I.E. (N)=40.75 (AB)  
8" I.E. (S)=40.86 (AB)

**SDCB #12B**  
15+62.10, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=44.27 (AB)  
8" I.E. (S)=41.27 (AB)

**SDCB #13A**  
17+19.77, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=41.18  
RM=40.63 (AB)  
8" I.E. (N)=37.83 (AB)  
8" I.E. (S)=37.73 (AB)  
12" I.E. (W)=37.23 (AB)  
12" I.E. (E)=37.33 (AB)

**SDCB #13B**  
17+19.77, 25.04' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=41.15 (AB)  
8" I.E. (N)=37.83 (AB)  
8" I.E. (S)=37.73 (AB)

**SDCB #14A**  
17+19.77, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=41.18  
RM=40.58 (AB)  
8" I.E. (N)=38.18 (AB)  
8" I.E. (S)=37.78 (AB)

**SDCB #14B**  
17+19.77, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=41.30 (AB)  
8" I.E. (S)=38.60 (AB)

#### STORM STUB LOCATION TABLE

LOT No.	STREET	STA & OFFSET	STUB	DESIGN	AS-BUILT
1	"A" STREET	14+34.3 45.0 LT	43.3	44.3	(AB)
2	"A" STREET	15+46.9 45.0 LT	41.7	43.4	(AB)
3	"A" STREET	15+62.1 45.0 LT	41.4	41.7	(AB)
4	"A" STREET	16+72.9 45.0 LT	38.4	40.7	(AB)
5	"A" STREET	17+19.8 45.0 LT	36.7	38.8	(AB)
6	"A" STREET	17+56.6 45.0 LT	36.7	38.6	(AB)
48	"A" STREET	18+04.6 45.0 RT	39.4	38.3	(AB)
49	"A" STREET	17+19.8 45.0 RT	38.2	39.8	(AB)
50	"A" STREET	16+57.2 45.0 RT	39.4	40.6	(AB)
51	"A" STREET	15+60.4 55.8 RT	41.6	42.8	(AB)
52	"A" STREET	15+44.0 85.2 RT	41.8	43.5	(AB)
53	"A" STREET	15+06.2 113.3 RT	42.0	44.0	(AB)
54	"A" STREET	14+62.4 101.3 RT	42.3	44.6	(AB)
55	"A" STREET	14+26.6 45.0 RT	43.1	44.5	(AB)

#### DRIVEWAY CENTERLINE TABLE

LOT No.	STREET	STA & OFFSET	FL	MDTA
1	"A" STREET	14+63.82 18.00 LT	20.00	
2	"A" STREET	15+08.51 18.00 LT	20.00	
3	"A" STREET	15+97.67 18.00 LT	20.00	
4	"A" STREET	16+39.67 18.00 LT	20.00	
5	"A" STREET	16+99.67 18.00 LT	20.00	
6	"A" STREET	17+91.17 18.00 LT	20.00	
48	"A" STREET	17+88.82 18.00 RT	20.00	
49	"A" STREET	16+85.62 18.00 RT	20.00	
50	"A" STREET	16+43.62 18.00 RT	20.00	
51	"A" STREET	15+76.61 18.00 RT	20.00	
52	"A" STREET	15+23.80 79.34 RT	20.00	
53	"A" STREET	14+95.12 87.97 RT	20.00	
54	"A" STREET	14+64.70 58.18 RT	30.00	

#### LINE TABLE - ROADWAY CENTERLINE

LINE	LENGTH	BEARING	DESCRIPTION
L2	43.56'	N32°32'02"E	"A" ST CUL-DE-SAC
L3	332.11'	S74°46'01"E	"A" STREET

#### CURVE TABLE - ROADWAY CENTERLINE

CURVE	DELTA	RADIUS	LENGTH	DESCRIPTION
C2	31°23'36"	150.00'	82.19'	"A" STREET
C3	18°48'14"	300.00'	98.46'	"A" STREET
C4	17°18'03"	300.00'	90.59'	"A" STREET

#### 'A' STREET CUL-DE-SAC CURB RETURN TABLE

R=20.00' Δ=89°26'02" L=31.22'			
STATION	OFFSET	FL ELEV.	
BCR	14+44.02	'A' 18.00 RT	45.46
1/3L	14+53.32	'A' 20.80 RT	45.35
2/3L	14+59.79	'A' 28.34 RT	45.27
ECR	14+61.76	'A' 38.39 RT	45.21
R=45.00' Δ=200°40'42" L=157.61'			
STATION	OFFSET	FL ELEV.	
BCR	14+61.76	'A' 38.39 RT	45.21
1/5L	14+62.37	'A' 48.85 RT	45.16
2/5L	14+64.95	'A' 58.89 RT	45.10
3/5L	14+69.22	'A' 68.00 RT	45.02
4/5L	14+74.89	'A' 75.79 RT	44.94
5/5L	14+81.62	'A' 81.92 RT	44.85
6/5L	14+89.12	'A' 86.14 RT	44.76
7/5L	14+97.07	'A' 88.29 RT	44.65
8/5L	15+05.17	'A' 88.29 RT	44.54
9/5L	15+13.12	'A' 86.14 RT	44.44
10/5L	15+20.61	'A' 81.92 RT	44.34
11/5L	15+27.35	'A' 75.79 RT	44.25
12/5L	15+33.01	'A' 68.00 RT	44.17
13/5L	15+37.29	'A' 58.89 RT	44.10
14/5L	15+39.87	'A' 48.85 RT	44.04
ECR	15+40.48	'A' 38.39 RT	43.99
R=20.00' Δ=89°26'02" L=31.22'			
STATION	OFFSET	FL ELEV.	
BCR	15+40.48	'A' 38.39 RT	43.99
1/3L	15+42.45	'A' 28.34 RT	43.93
2/3L	15+48.92	'A' 20.80 RT	43.85
ECR	15+56.22	'A' 18.00 RT	43.74

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

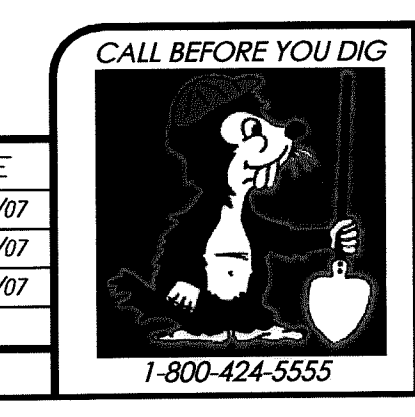
APPROVED  
BY RC  
CITY OF FERDALE

AS-BUILT DRAWING

(CORRESPONDING WATER & SANITARY SEWER IMPROVEMENTS SEE SHEET 16)

HORIZONTAL SCALE: 1" = 20'  
VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JNY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



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6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248  
1-800-424-5555

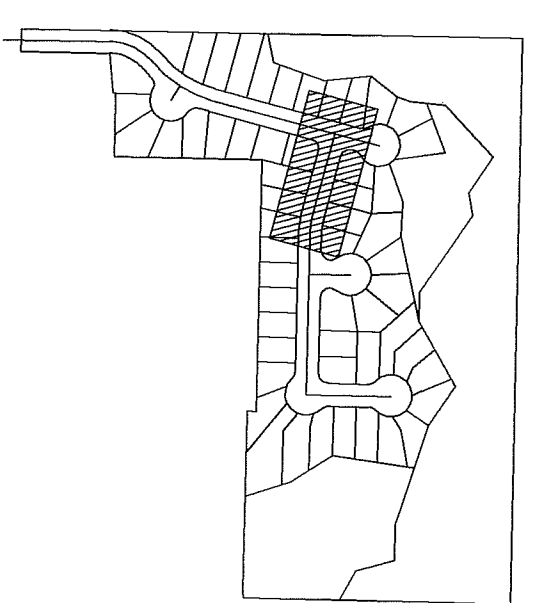
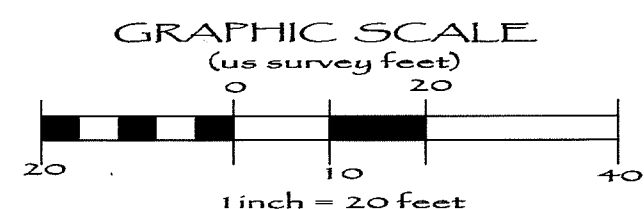
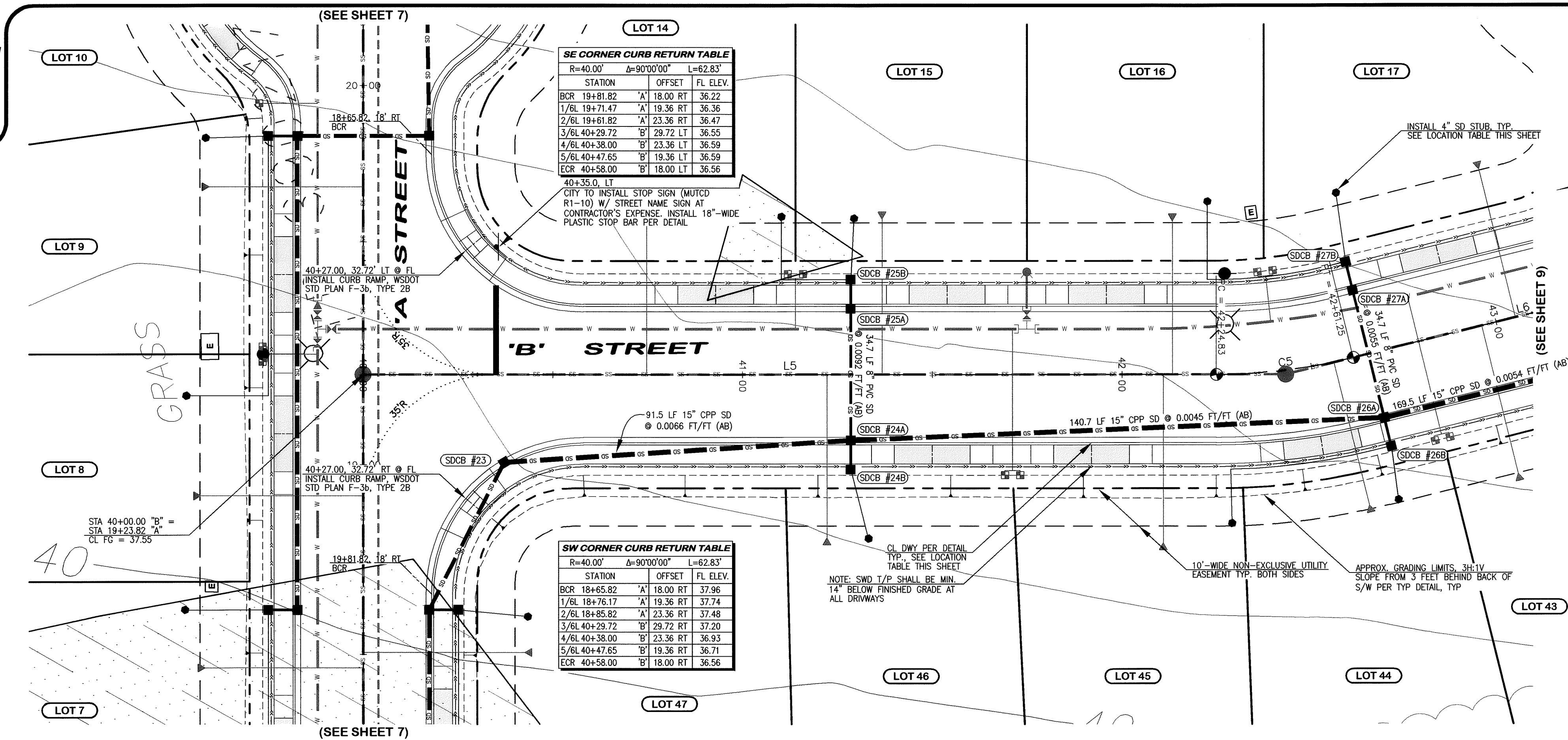
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'A' STREET ~ STATIONS  
13+75 to 18+00  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 6 OF 34

10-11-07  
EXPIRES: 10/10/09





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1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com



#### STORM DRAINAGE NOTES

- SDCB #23**  
40+37.46, 23.67' RT @ FL  
TYPE 1L W/ THRU CURB F&G  
TFC=37.45  
RIM=36.92 (AB)  
12" I.E. (NW)=33.57 (AB)  
15" I.E. (S)=33.47 (AB)
- SDCB #24A**  
41+28.47, 18.00' RT @ FL  
TYPE 1L W/ THRU CURB F&G  
TFC=36.70  
RIM=36.07 (AB)  
8" I.E. (W)=33.47 (AB)  
8" I.E. (C)=33.02 (AB)  
15" I.E. (N)=32.87 (AB)  
15" I.E. (S)=32.77 (AB)
- SDCB #24B**  
41+28.47, 25.04' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=36.75 (AB)  
8" I.E. (E)=33.75 (AB)
- SDCB #25A**  
41+28.47, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=36.70  
RIM=36.14 (AB)  
8" I.E. (E)=33.39 (AB)  
8" I.E. (W)=33.34 (AB)
- SDCB #25B**  
41+28.47, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=36.69 (AB)  
8" I.E. (W)=33.44 (AB)
- SDCB #26A**  
42+65.35, 18.00' RT @ FL  
TYPE 1L W/ THRU CURB F&G  
TFC=36.02  
RIM=35.43 (AB)  
8" I.E. (W)=32.58 (AB)  
8" I.E. (C)=32.33 (AB)  
15" I.E. (N)=32.13 (AB)  
15" I.E. (S)=32.13 (AB)
- SDCB #26B**  
42+65.35, 25.04' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=35.79 (AB)  
8" I.E. (C)=33.59 (AB)
- SDCB #27A**  
42+65.35, 18.00' LT @ CTR  
TYPE 1 W/ THRU CURB F&G  
TFC=36.02  
RIM=35.42 (AB)  
8" I.E. (C)=32.57 (AB)  
8" I.E. (W)=32.52 (AB)
- SDCB #27B**  
42+65.35, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=36.01 (AB)  
8" I.E. (W)=32.96 (AB)

#### STORM STUB LOCATION TABLE

LOT No.	STREET	STA & OFFSET @ STUB	DESIGN STUB I.E.	AS-BUILT STUB I.E.
15	"B" STREET	41+28.5 45.0 LT	33.7	34.5 (AB)
16	"B" STREET	42+31.5 45.0 LT	33.2	35.0 (AB)
17	"B" STREET	42+65.4 45.0 RT	33.0	34.5 (AB)
44	"B" STREET	42+19.3 45.0 RT	33.2	34.9 (AB)
46	"B" STREET	41+28.5 45.0 RT	33.7	35.5 (AB)

#### DRIVEWAY CENTERLINE TABLE

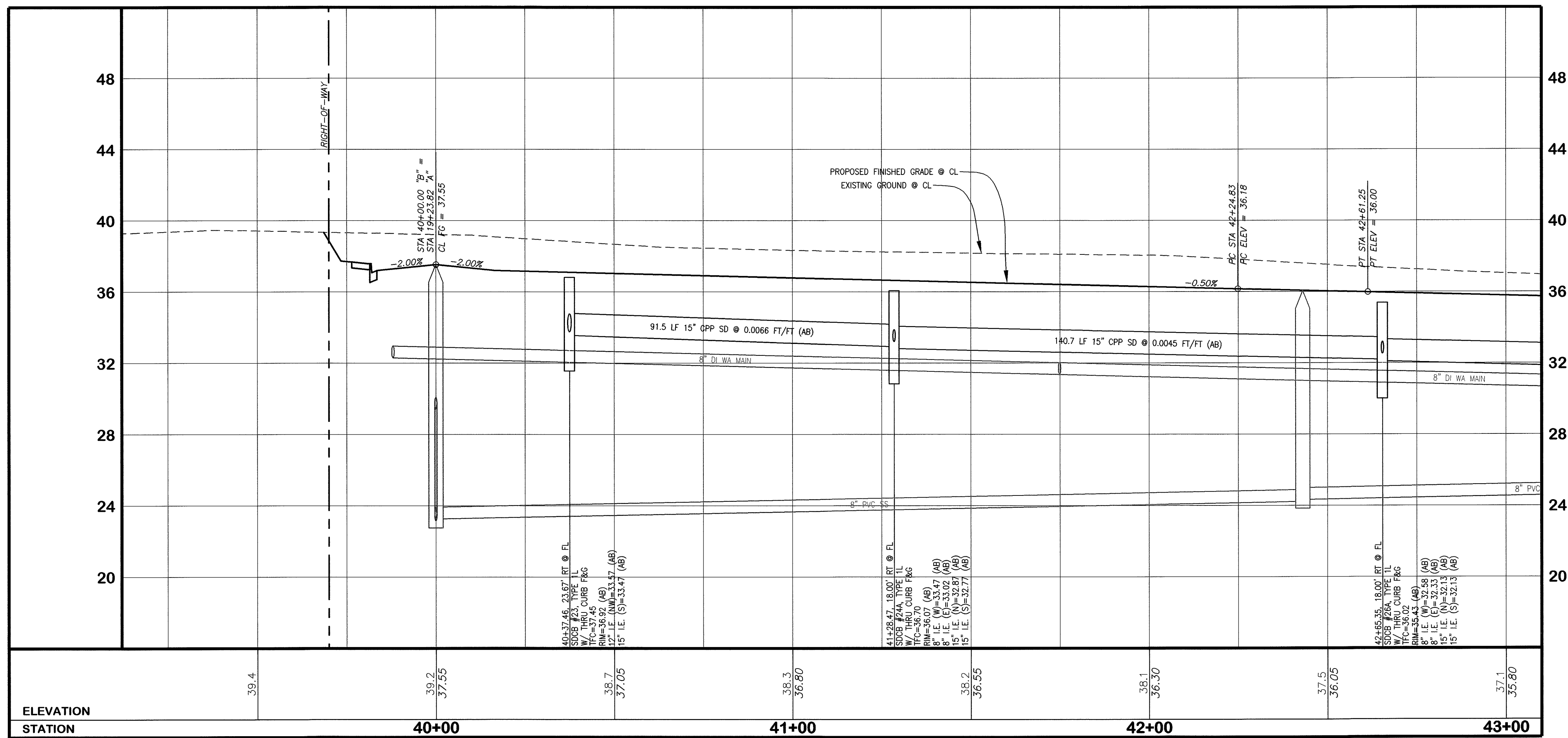
LOT No.	STREET	STA & OFFSET @ CL	WIDTH
14	"B" STREET	40+92.89 18.00 LT	20.00
15	"B" STREET	41+53.89 18.00 LT	20.00
16	"B" STREET	41+95.89 18.00 LT	20.00
17	"B" STREET	42+49.38 18.00 LT	20.00
44	"B" STREET	42+49.38 18.00 RT	20.00
45	"B" STREET	41+91.98 18.00 RT	20.00
46	"B" STREET	41+49.98 18.00 RT	20.00

#### LINE TABLE - ROADWAY CENTERLINE

LINE	LENGTH	BEARING	DESCRIPTION
L5	224.83	S151°59'W	"B" STREET
L6	111.50	S01°19'25"W	"B" STREET

#### CURVE TABLE - ROADWAY CENTERLINE

CURVE	DELTA	RADIUS	LENGTH	DESCRIPTION
C5	13°54'34"	150.00'	36.41'	"B" STREET



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

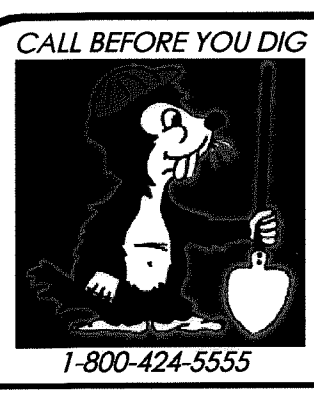
APPROVED

BY: RC  
CITY OF FERDALE

(CORRESPONDING WATER & SANITARY SEWER IMPROVEMENTS SEE SHEET 18)

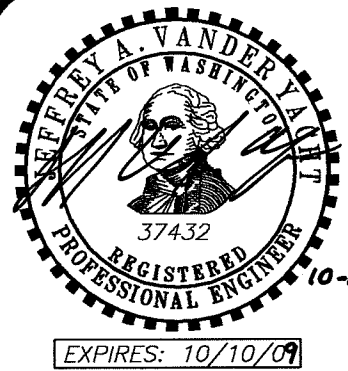
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK		DWG: P:\PSE\Project\2005054\DWGS\ENG_BASE_AB.dwg				REVISIONS				ISSUE	



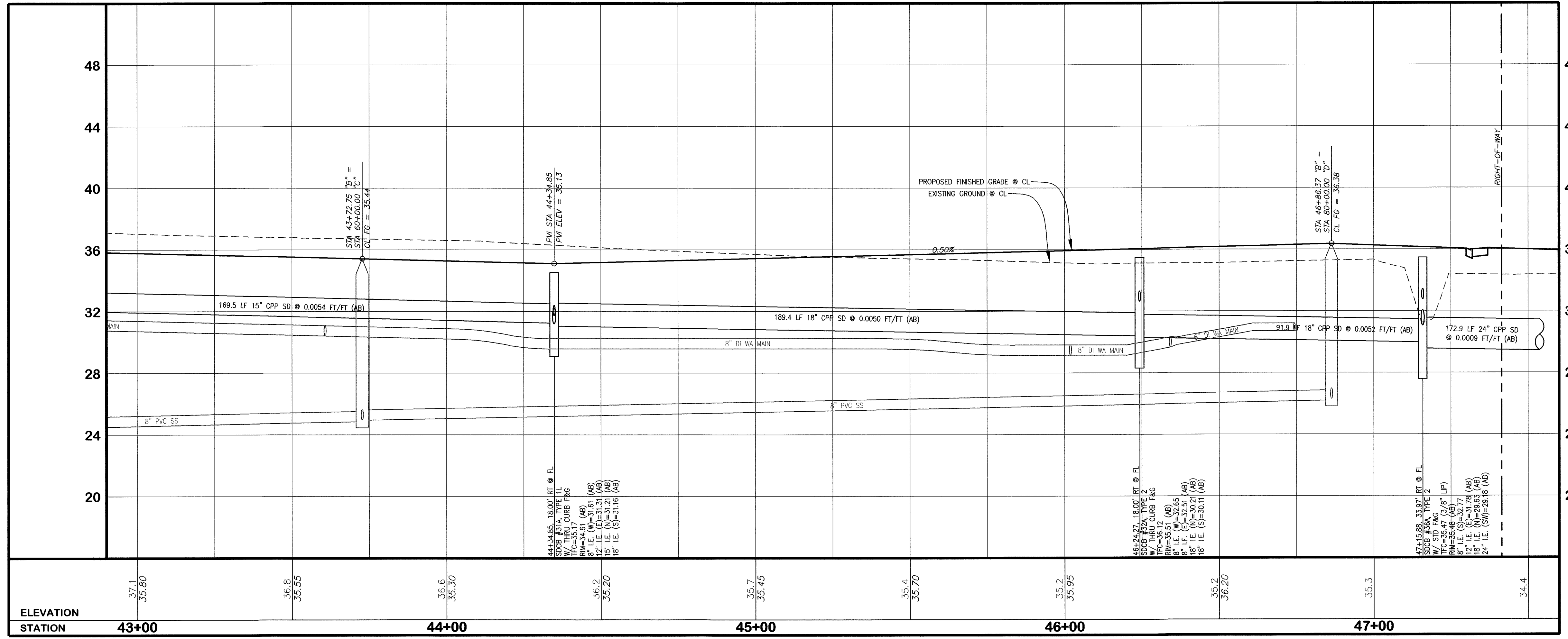
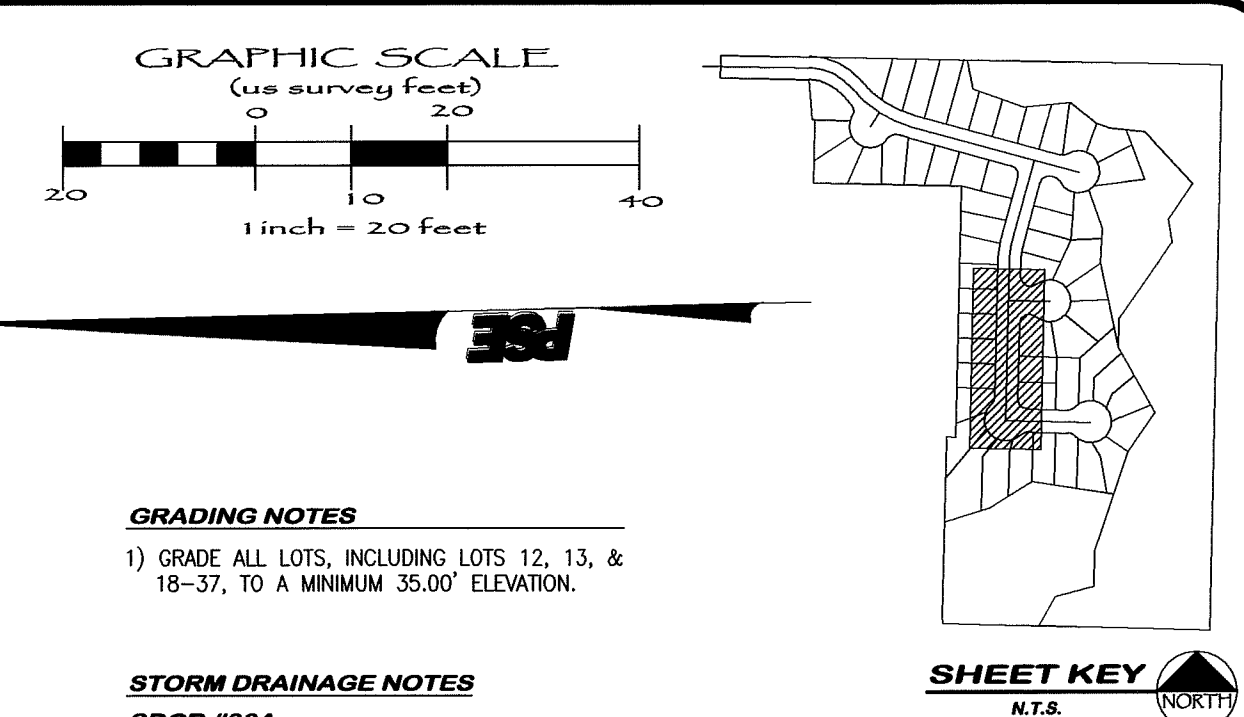
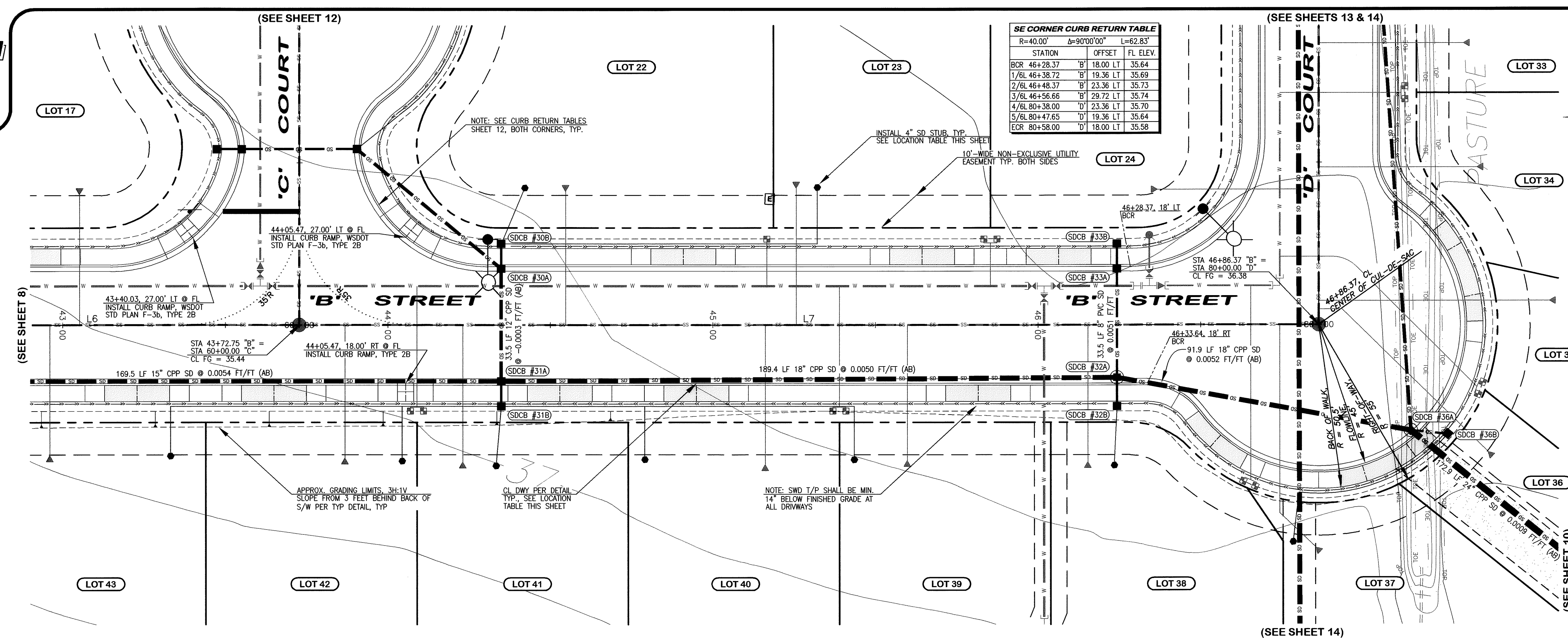
CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
"B" STREET ~ STATIONS  
40+00 to 43+00  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 8 OF 34





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1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
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SE CORNER CURB RETURN TABLE

STATION	OFFSET	FL ELEV.
BCR 46+28.37	8'	18.00 LT 35.64
1/2L 46+38.72	8'	19.36 LT 35.69
2/2L 46+48.37	8'	23.36 LT 35.73
3/2L 46+56.66	8'	29.72 LT 35.74
4/2L 46+58.00	8'	23.36 LT 35.70
5/2L 46+47.65	8'	19.36 LT 35.64
ECR 46+38.00	8'	18.00 LT 35.58

STORM DRAINAGE NOTES

SDCB #30A

44+34.85, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=35.17  
RIM=34.60 (AB)  
8' I.E. (E)=31.20 (AB)  
12' I.E. (N)=31.30 (AB)  
12' I.E. (W)=31.30 (AB)

SDCB #30B

44+34.85, 25.04' LT @ CTR  
TYPE 1 W/ SOILD COVER  
RIM=35.28 (AB)  
8' I.E. (W)=31.83 (AB)

SDCB #31A

44+34.85, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=35.17  
RIM=34.61 (AB)  
8' I.E. (W)=31.81 (AB)  
12' I.E. (E)=31.31 (AB)  
15' I.E. (N)=31.21 (AB)  
18' I.E. (S)=31.16 (AB)

SDCB #31B

44+34.85, 25.04' RT @ CTR  
TYPE 1 W/ SOILD COVER  
RIM=35.27 (AB)  
8' I.E. (E)=31.77 (AB)

SDCB #32A

46+24.27, 18.00' RT @ FL  
TYPE 2 W/ THRU CURB F&G  
TFC=36.12  
RIM=35.51 (AB)  
8' I.E. (W)=32.65 (AB)  
12' I.E. (E)=32.51 (AB)  
18' I.E. (N)=30.21 (AB)  
18' I.E. (S)=30.11 (AB)

SDCB #32B

46+24.27, 25.04' RT @ CTR  
TYPE 1 W/ SOILD COVER  
RIM=36.27 (AB)  
8' I.E. (E)=32.72 (AB)

SDCB #33A

46+24.27, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=36.12  
RIM=35.49 (AB)  
8' I.E. (E)=32.74 (AB)  
8' I.E. (W)=32.69 (AB)

SDCB #33B

46+24.27, 25.04' LT @ CTR  
TYPE 1 W/ SOILD COVER  
RIM=36.04 (AB)  
8' I.E. (W)=33.59 (AB)

SDCB #36A

47+15.86, 33.97' RT @ FL  
TYPE 2 W/ STD F&G  
TFC=35.47 (3/8" UP)  
RIM=35.48 (AB)  
8' I.E. (S)=32.77 (AB)  
12' I.E. (E)=31.78 (AB)  
18' I.E. (N)=29.63 (AB)  
24' I.E. (SW)=29.18 (AB)

SDCB #36B

47+25.98, 33.75' RT @ CTR  
TYPE 1 W/ SOILD COVER  
RIM=36.03 (AB)  
8' I.E. (N)=32.88 (AB)

DRIVEWAY CENTERLINE TABLE

LOT No.	STREET	S/A & OFFSET @ FL	WIDTH
22	"B" STREET	44+90.93 18.00 LT	20.00
23	"B" STREET	45+64.37 18.00 LT	20.00
24	"B" STREET	46+06.37 18.00 LT	20.00
36	"B" STREET	47+06.56 40.22 RT	30.00
37	"B" STREET	46+56.56 33.71 RT	20.00
38	"B" STREET	45+81.64 18.00 RT	20.00
39	"B" STREET	44+94.92 18.00 RT	20.00
40	"B" STREET	44+52.92 18.00 RT	20.00
41	"B" STREET	43+64.92 18.00 RT	20.00
42	"B" STREET	43+22.92 18.00 RT	20.00

LINE TABLE ~ ROADWAY CENTERLINE

LINE	LENGTH	BEARING	DESCRIPTION
L6	111.50'	S01°19'25"W	"B" STREET
L7	113.62'	S01°19'25"W	"B" STREET

'B' STREET CUL-DE-SAC CURB RETURN TABLE

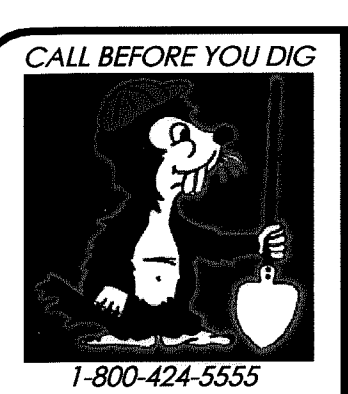
STATION	OFFSET	FL ELEV.
BCR 46+33.64	8'	18.00 RT 35.67
1/2L 46+42.75	8'	20.20 RT 35.72
ECR 46+49.86	8'	26.31 RT 35.76

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
'(AB)' HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT DRAWING

APPROVED  
BY: [Signature]  
DATE: 10/10/07

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



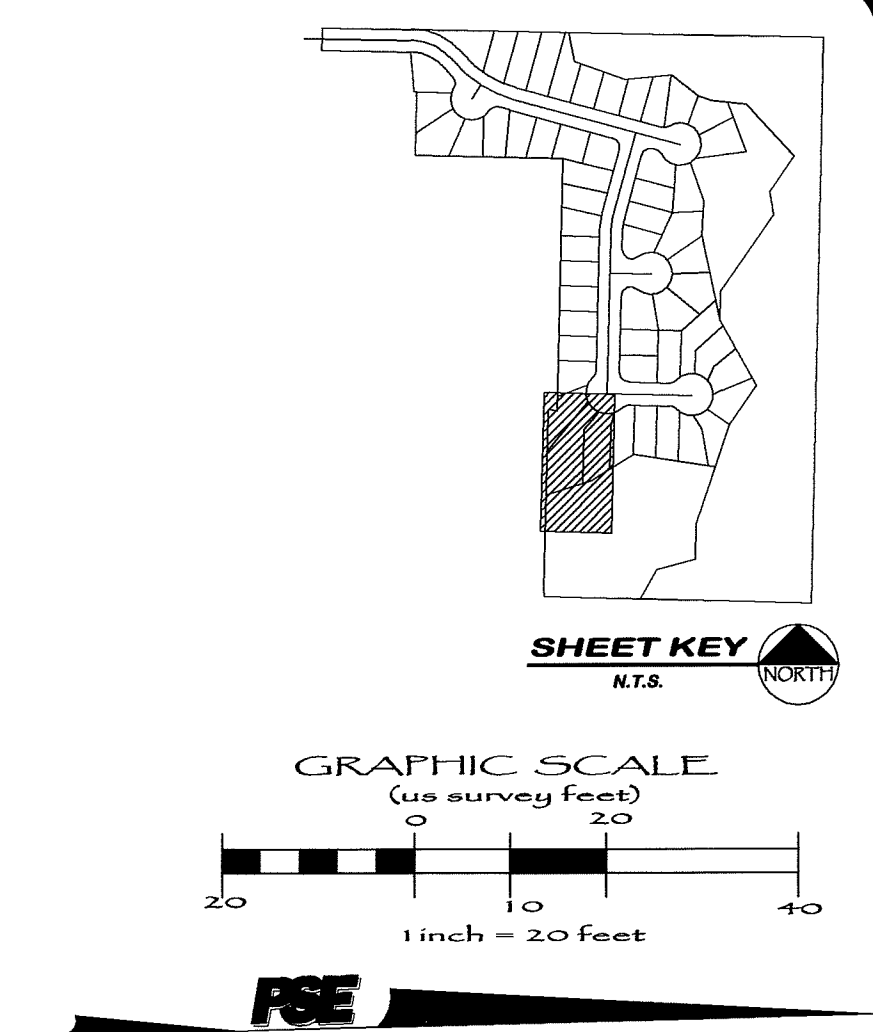
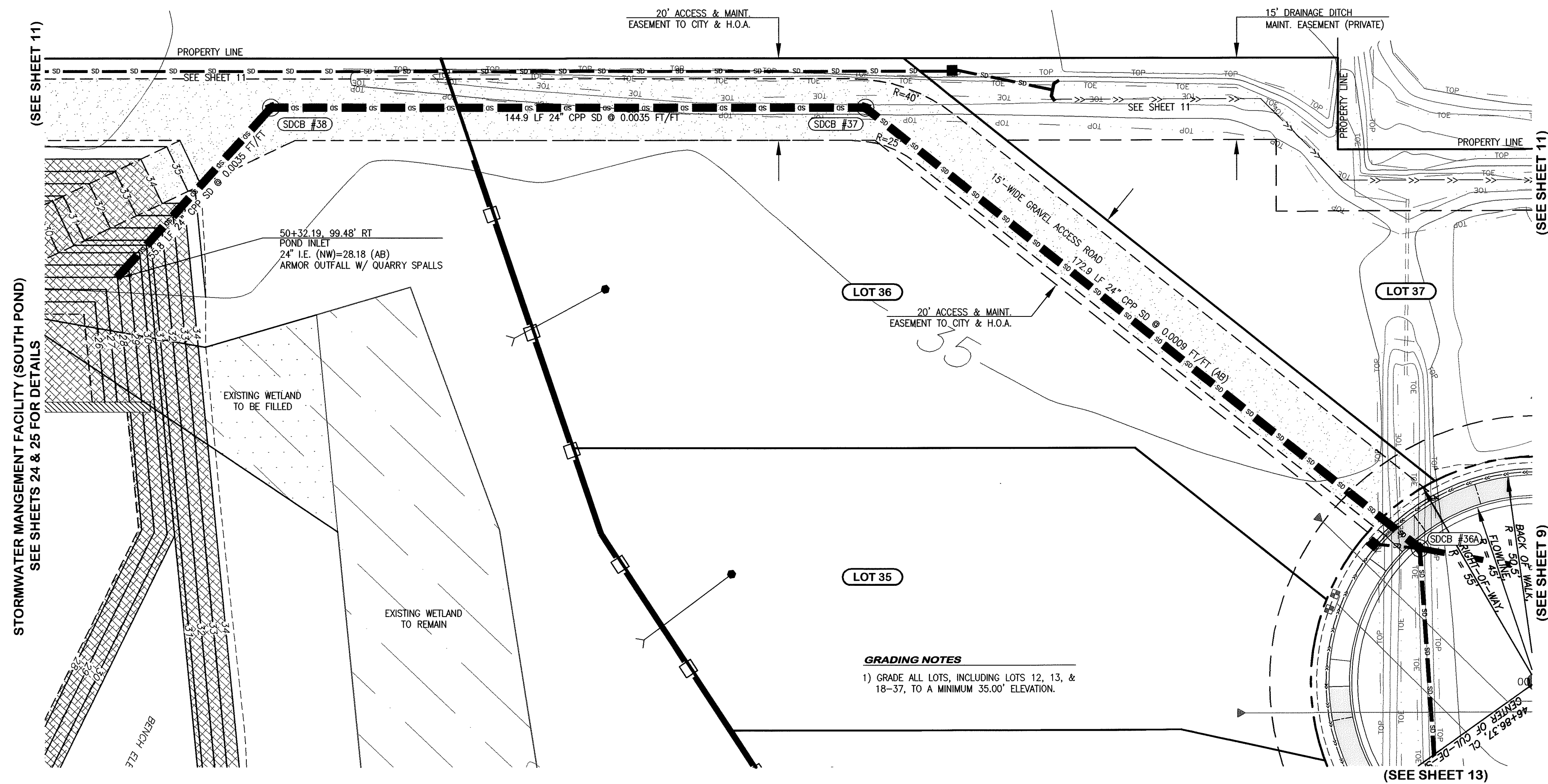
CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDALE, WASHINGTON 98248  
1-800-424-5555

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'B' STREET ~ STATIONS  
43+00 to 47+50  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
COF PROJECT NO. LP 2006-03  
SHEET 9 OF 34

EXPIRES: 10/10/07



PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com

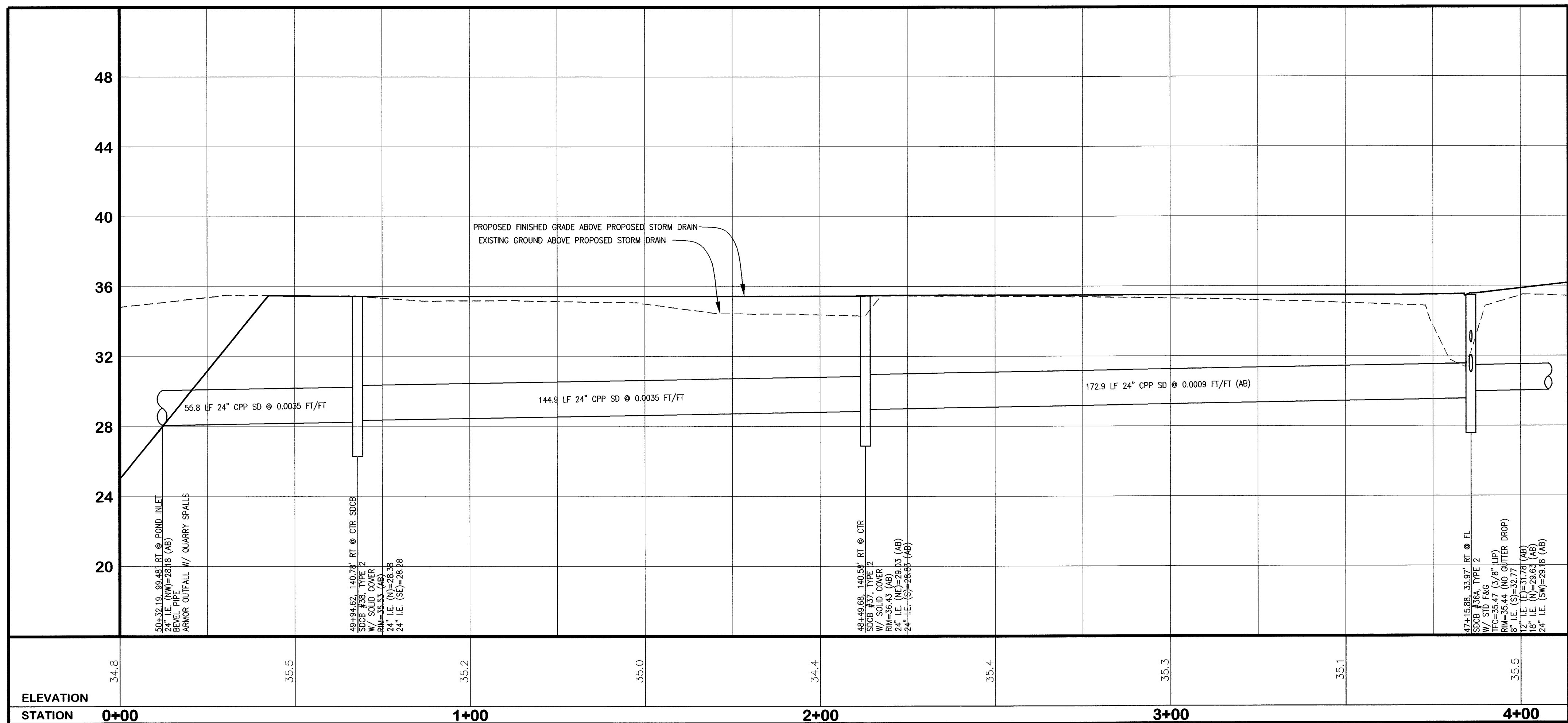


#### STORM DRAINAGE NOTES

**SDCB #36A**  
47+15.88, 33.97' RT @ FL  
TYPE 2 W/ STD F&G  
TFC=35.47 (S/8" LIP)  
RIM=35.48 (AB)  
8" I.E. (S)=32.77  
12" I.E. (S)=31.78 (AB)  
18" I.E. (N)=29.63 (AB)  
24" I.E. (SW)=29.18 (AB)

**SDCB #37**  
48+49.68, 140.58' RT @ CTR  
TYPE 2 W/ SOLID COVER  
RIM=36.43 (AB)  
24" I.E. (NE)=29.03 (AB)  
24" I.E. (S)=28.83 (AB)

**SDCB #38**  
49+94.62, 140.78' RT @ CTR  
TYPE 2 W/ SOLID COVER  
RIM=35.53 (AB)  
24" I.E. (W)=28.38  
24" I.E. (SE)=28.28



HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
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AS-BUILT  
DRAWING

APPROVED

BY  
CITY OF FERNDALE

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'B' STREET TO SOUTH POND

ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 10 OF 34



FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	OWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	NO.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
ASBUILT:				DESIGN	BEA	JVT	VERT: 1" = 4'					2	07/02/07
				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									

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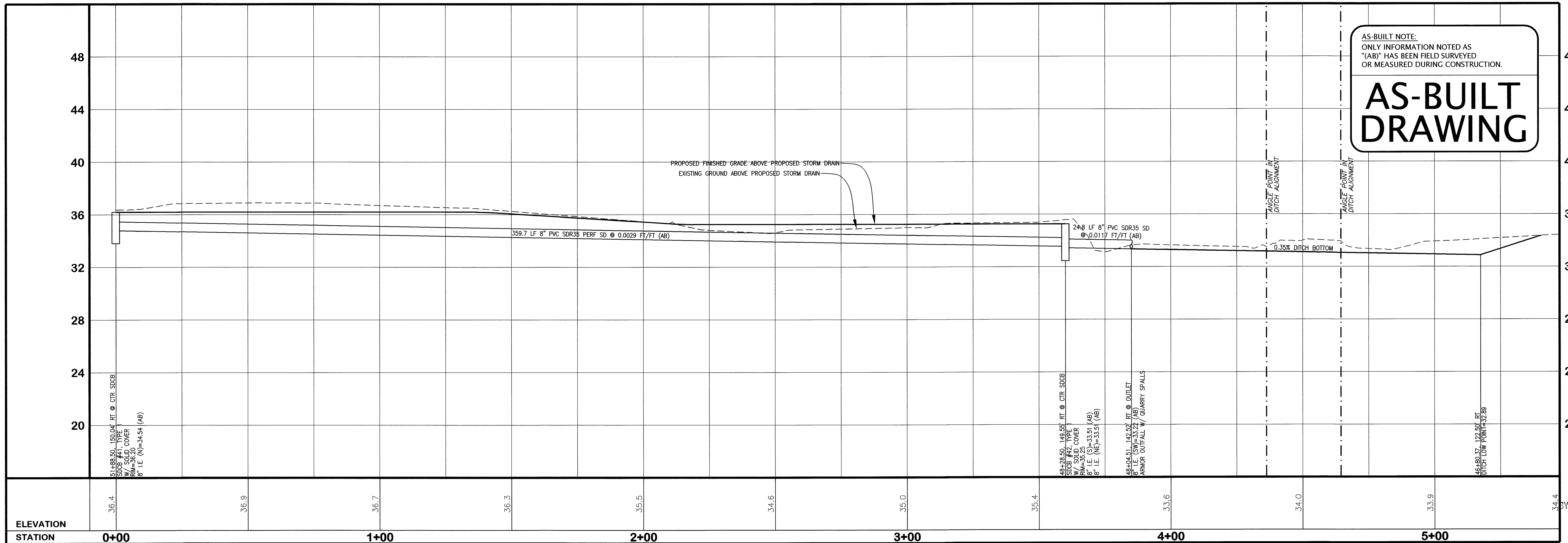
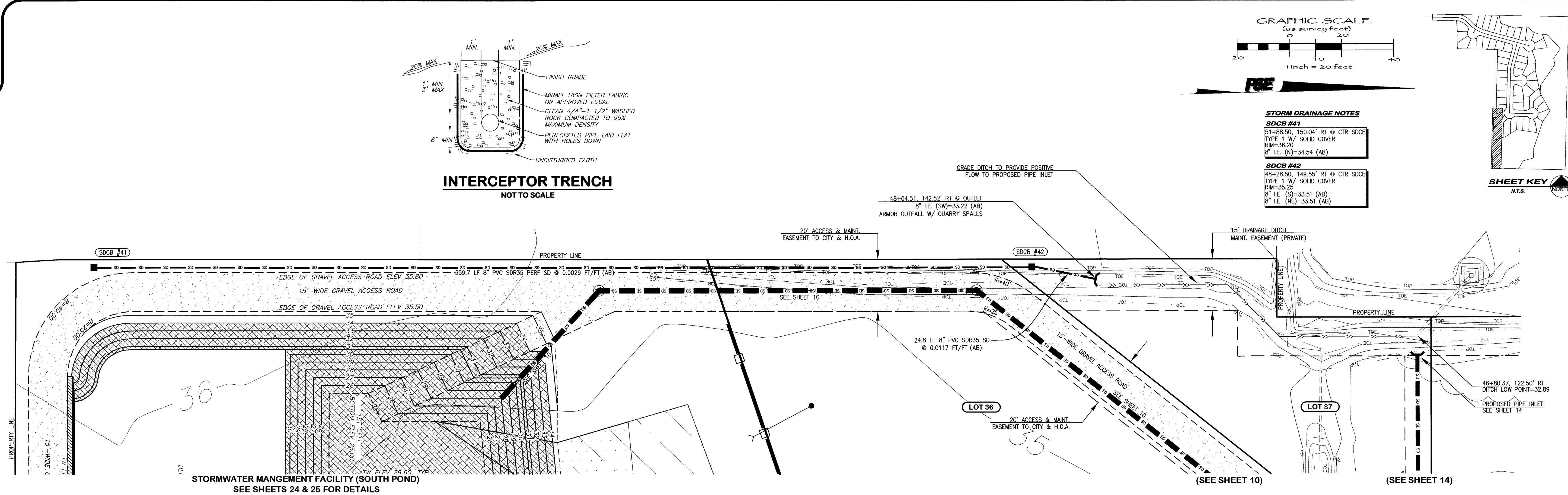


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www.psesurvey.com  
EMAIL: pse@psurvey.com

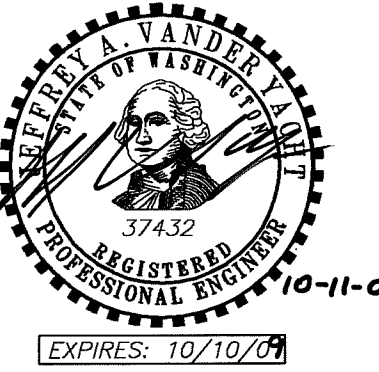


FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE		VERTICAL DATUM		DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
				PLAN CHECK				REVISIONS				ISSUE	



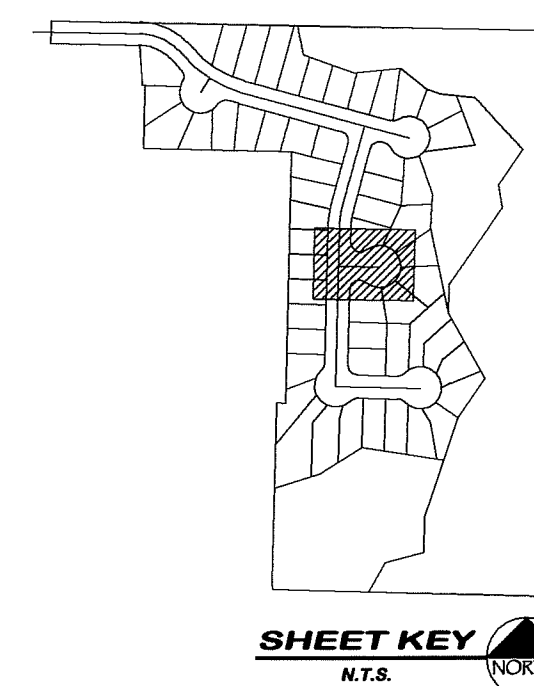
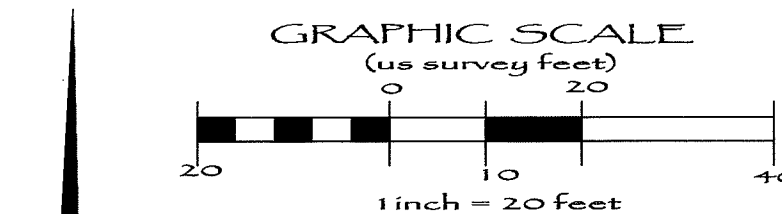
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WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**OFFSITE STORM DRAINAGE INTERCEPTION**  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 11 OF 34



00390.011 7-10-09 DD

**PACIFIC SURVEY & ENGINEERING INC**  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE:671.7387 FAX:671.4685 EMAIL:



**SDCB #30A**  
44+34.85, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=35.17  
RIM=34.60 (AB)  
8" I.E. (E)=31.20 (AB)  
12" I.E. (NE)=31.30 (AB)  
12" I.E. (W)=31.30 (AB)

<b>LOT No.</b>	<b>STREET</b>	<b>STA &amp; OFFSET @ STUB</b>		<b>DESIGN STUB I.E.</b>	<b>AS-BUILT STUB I.E.</b>
18	"B" STREET	41+83.3	208.8 LT	*	35.4
19	"B" STREET	43+23.8	228.4 LT	*	35.2
20	"B" STREET	44+05.9	248.4 LT	*	34.3
21	"C" COURT	61+22.0	68.3 RT	32.6	34.6

DRIVEWAY CENTERLINE TABLE				
LOT No.	STREET	STA & OFFSET @ FL		WIDTH
18	"C" COURT	61+40.01	30.24 LT	30.00
19	"C" COURT			
20	"C" COURT	61+40.43	29.77 RT	30.00
21	"C" COURT			

LINE TABLE ~ ROADWAY CENTERLINE			
LINE	LENGTH	BEARING	DESCRIPTION
L8	106.68'	S88°40'35"E	"C" COURT

C' COURT CL-DU-SAC			
CURB RETURN TABLE			
R=40.00" F=70°04.43" L=55.21"			
STATION	OFFSET	FL ELEV.	FL ELEV.
1/BLR 43+14.75	B' 18.00	35.27	
1/6/L 43+14.75	B' 18.01	35.23	
2/6/L 43+34.25	B' 22.15	35.19	
2/6/L 43+40.21	B' 22.17	35.15	
4/BLR 40+04.67	C' 26.17	35.19	
2/6/L 40+41.67	C' 26.18	35.13	
ECR 60+50.42	C' 18.17	35.04	
R=20.00" F=64°45.03" L=22.60"			
STATION	OFFSET	FL ELEV.	FL ELEV.
ECR 60+50.42	C' 18.17	35.04	
1/2/L 60+61.53	C' 19.75	35.06	
ECR 60+70.36	C' 26.56	35.14	
STATION	OFFSET	FL ELEV.	FL ELEV.
ECR 60+70.36	C' 26.56	35.14	
1/2/L 60+77.31	C' 34.59	35.25	
2/2/L 60+77.31	C' 34.59	35.17	
2/2/L 60+95.34	C' 43.55	35.45	
4/2/L 60+104.58	C' 44.98	35.62	
5/2/L 60+15.69	C' 40.91	35.75	
2/2/L 60+25.43	C' 40.91	35.87	
2/2/L 60+34.20	C' 35.61	36.00	
7/2/L 60+41.54	C' 28.86	36.12	
2/2/L 60+50.73	C' 19.83	36.22	
10/2/L 60+50.52	C' 10.18	36.22	
2/2/L 60+51.68	C' CL	36.32	
12/2/L 60+51.02	C' 18.17	36.29	
14/2/L 60+51.54	C' 28.86	36.31	
15/2/L 60+54.20	C' 35.61	36.10	
20/2/L 60+73.13	C' 39.85	35.47	
2/2/L 60+15.69	C' 40.91	35.75	
2/2/L 60+25.43	C' 44.98	35.82	
19/2/L 60+25.34	C' 43.55	35.87	
20/2/L 60+85.78	C' 39.85	35.39	
21/2/L 60+77.31	C' 34.59	35.25	
ECR 60+70.36	C' 26.56	35.14	
R=40.00" F=70°04.43" L=55.21"			
STATION	OFFSET	FL ELEV.	FL ELEV.
ECR 60+70.36	C' 26.56	35.14	
1/2/L 60+61.53	C' 19.75	35.06	
ECR 60+50.42	C' 18.17	35.00	
R=40.00" F=70°04.43" L=55.21"			
STATION	OFFSET	FL ELEV.	FL ELEV.
ECR 60+50.42	C' 18.17	35.00	
1/6/L 60+41.67	C' 21.49	34.95	
2/6/L 60+44.72	C' 26.17	34.90	
4/BLR 40+05.28	C' 27.15	34.84	
2/6/L 40+41.67	C' 26.18	34.84	
4/BLR 44+21.63	C' 19.05	34.74	
ECR 44+40.75	C' 18.00	34.69	



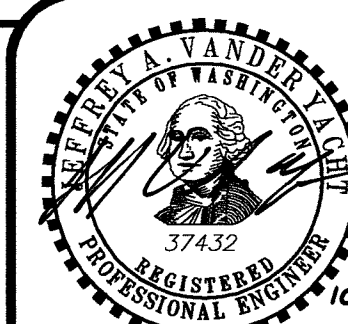
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WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'C' COURT

ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 12 OF 34

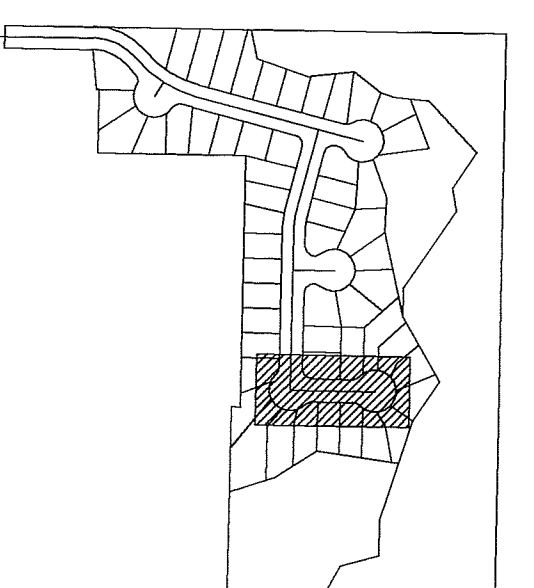
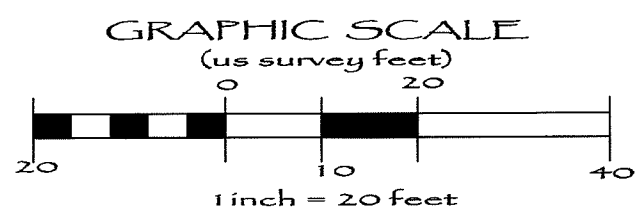
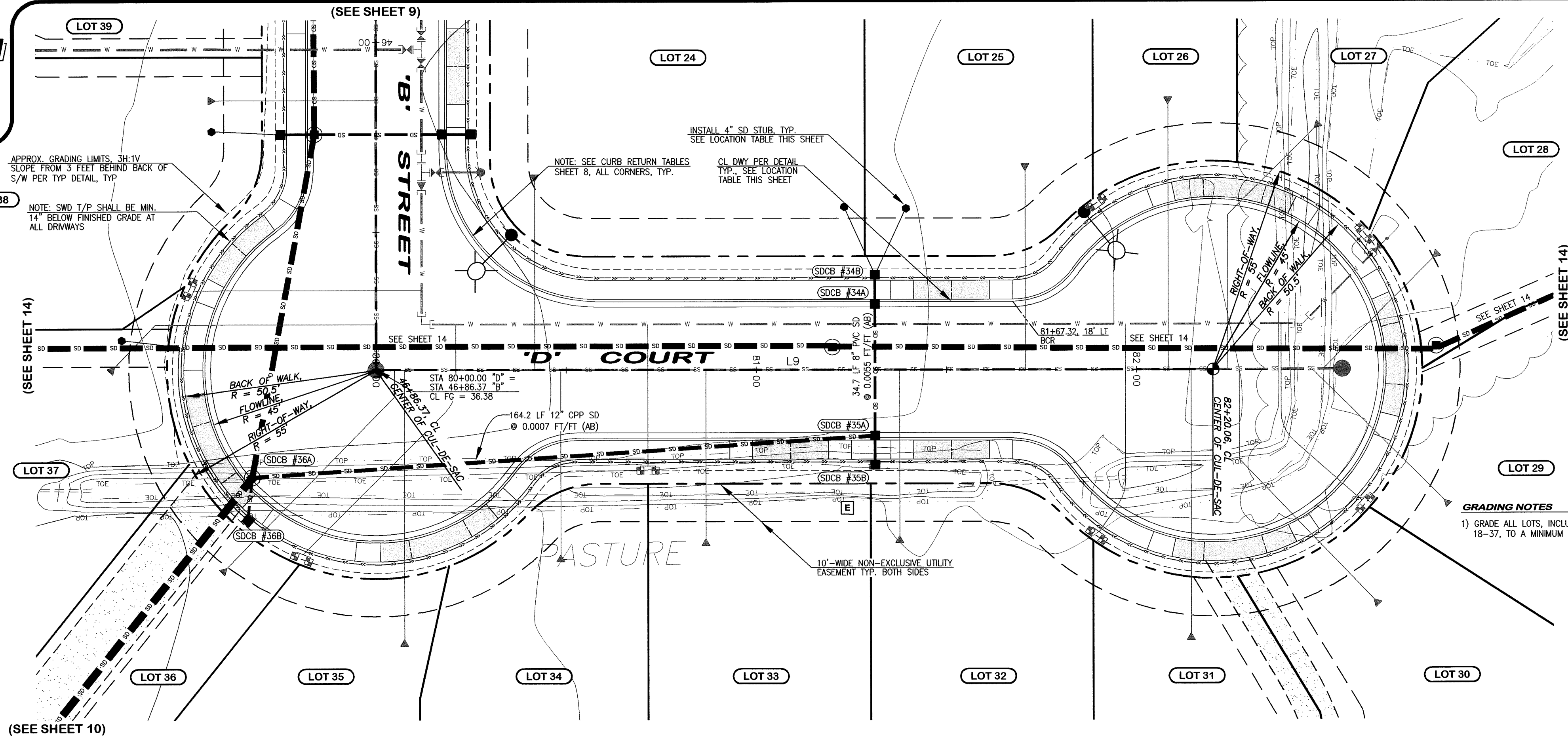


10-11-07

EXPIRES: 10/10/09



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EMAIL: pse@psurvey.com



#### STORM DRAINAGE NOTES

**SDCB #34A**  
81+31.22, 18.00' LT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=35.64  
RM=35.14 (AB)  
8' I.E. (N)=32.24 (AB)  
8' I.E. (S)=32.19 (AB)

**SDCB #34B**  
81+31.22, 25.04' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=35.72 (AB)  
8' I.E. (S)=32.47 (AB)

**SDCB #35A**  
81+31.22, 18.00' RT @ FL  
TYPE 1 W/ THRU CURB F&G  
TFC=35.64  
RM=35.10 (AB)  
8' I.E. (N)=31.90 (AB)  
8' I.E. (S)=32.00 (AB)  
12' I.E. (W)=31.90 (AB)

**SDCB #35B**  
81+31.22, 25.04' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=35.78 (AB)  
8' I.E. (N)=33.19 (AB)

**SDCB #36A**  
47+15.88, 33.97' RT @ FL  
TYPE 2 W/ STD F&G  
TFC=35.47 (3/8" LIP)  
RM=35.48 (AB)  
8' I.E. (S)=32.77  
12' I.E. (E)=31.78 (AB)  
18' I.E. (N)=29.63 (AB)  
24' I.E. (SW)=29.18 (AB)

**SDCB #36B**  
47+25.99, 33.75' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RM=36.03 (AB)  
8' I.E. (N)=32.88 (AB)

#### STORM STUB LOCATION TABLE

LOT NO.	STREET	STA & OFFSET @ STUB	DESIGN STUB L.E.	AS-BUILT STUB L.E.
24	"B" STREET	81+11.3 45.0 LT	32.6	33.9 (AB)
25	"D" COURT	81+31.2 45.0 LT	32.6	33.7 (AB)
26	"B" STREET	44+76.5 267.4 LT	*	34.0 (AB)
27	"B" STREET	45+40.1 295.3 LT	*	33.6 (AB)
28	"B" STREET	46+09.2 336.0 LT	*	33.5 (AB)
29	"B" STREET	46+94.9 327.9 LT	*	33.9 (AB)
30	"B" STREET	47+97.5 279.8 LT	*	33.3 (AB)
31	"B" STREET	48+44.4 225.5 LT	*	33.1 (AB)
32	"B" STREET	48+33.6 162.9 LT	*	33.6 (AB)
33	"B" STREET	48+27.4 105.0 LT	*	33.8 (AB)
34	"B" STREET	48+49.1 26.9 LT	*	33.7 (AB)
35	"B" STREET	48+82.6 26.8 RT	*	33.6 (AB)
36	"B" STREET	49+13.3 96.3 RT	*	34.1 (AB)

NOTE: STUB DEPTHS WERE NOT IDENTIFIED ON THE DESIGN PLANS.  
AS-BUILT INFO SHOWN REFERS TO PORTION OF PIPE STUBBED TO LOTS.  
PIPES DISCHARGE TO GROUND SURFACE BEYOND SPLIT-RAIL FENCE.

#### DRIVEWAY CENTERLINE TABLE

LOT NO.	STREET	STA & OFFSET @ FL	WIDTH
25	"D" COURT	81+51.32 18.00 LT	20.00
26	"D" COURT	82+25.28 44.70 LT	30.00
27	"D" COURT	82+64.92 3.53 LT	30.00
28	"D" COURT	82+25.28 44.70 RT	30.00
29	"D" COURT	81+51.32 18.00 RT	20.00
30	"D" COURT	81+08.99 18.00 RT	20.00
31	"D" COURT	80+15.59 42.21 RT	30.00
32	"D" COURT	47+06.56 40.22 RT	30.00
33	"D" COURT		
34	"D" COURT		
35	"D" COURT		
36	"D" COURT		
37	"D" COURT		

LINE	LENGTH	BEARING	DESCRIPTION
L9	220.06'	S88°40'35"E	"D" COURT

"D" COURT CUL-DE-SAC CURB RETURN TABLE			
R=20.00' A=54°13'27" L=18.93'			
STATION	OFFSET	FL ELEV.	
BCR 81+67.32 "D"	18.00 LT	35.36	
1/2L 81+76.44 "D"	20.20 LT	35.44	
ECR 81+83.55 "D"	26.31 LT	35.53	
R=45.00' A=288°26'54" L=226.55'			
STATION	OFFSET	FL ELEV.	
BCR 81+83.55 "D"	26.31 LT	35.53	
1/2L 81+90.47 "D"	33.90 LT	35.64	
2/2L 81+98.93 "D"	39.73 LT	35.74	
3/2L 82+08.49 "D"	43.49 LT	35.84	
4/2L 82+18.66 "D"	44.98 LT	35.92	
5/2L 82+28.90 "D"	44.12 LT	36.01	
6/2L 82+38.68 "D"	40.97 LT	36.08	
7/2L 82+47.49 "D"	35.67 LT	36.14	
8/2L 82+54.86 "D"	28.52 LT	36.19	
9/2L 82+60.43 "D"	19.88 LT	36.23	
10/2L 82+63.88 "D"	10.21 LT	36.25	
11/2L 82+65.06 "D"	CL	36.27	
12/2L 82+63.88 "D"	10.21 RT	36.25	
13/2L 82+60.43 "D"	19.88 RT	36.23	
14/2L 82+54.86 "D"	28.52 RT	36.19	
15/2L 82+47.49 "D"	35.67 RT	36.14	
16/2L 82+38.68 "D"	40.97 RT	36.08	
17/2L 82+28.90 "D"	44.12 RT	36.01	
18/2L 82+18.66 "D"	44.98 RT	35.92	
19/2L 82+08.49 "D"	43.49 RT	35.84	
20/2L 81+98.93 "D"	39.73 RT	35.74	
21/2L 81+90.47 "D"	33.90 RT	35.64	
ECR 81+83.55 "D"	26.31 RT	35.53	
R=20.00' A=54°13'27" L=18.93'			
STATION	OFFSET	FL ELEV.	
BCR 81+83.55 "D"	26.31 RT	35.53	
1/2L 81+76.44 "D"	20.20 RT	35.44	
ECR 81+67.32 "D"	18.00 RT	35.36	

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

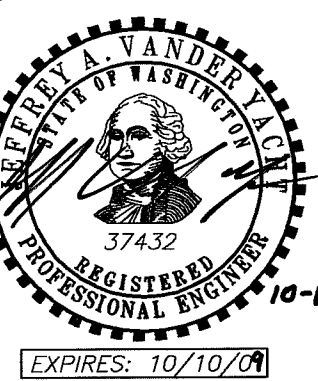
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BY   
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AS-BUILT  
DRAWING

(CORRESPONDING WATER & SANITARY SEWER IMPROVEMENTS SEE SHEET 21)

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
"D" COURT

ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 13 OF 34

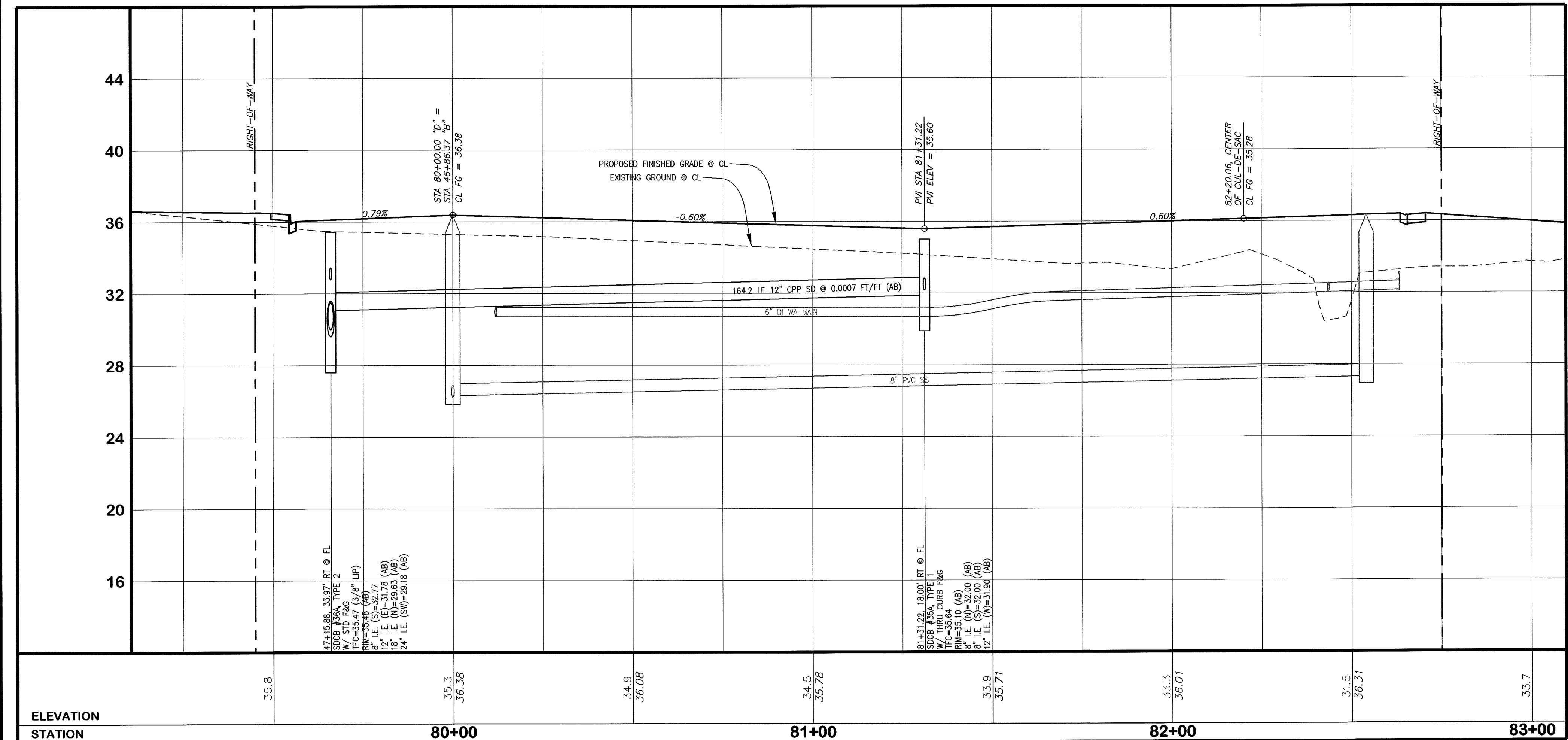


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6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

1-800-424-5555

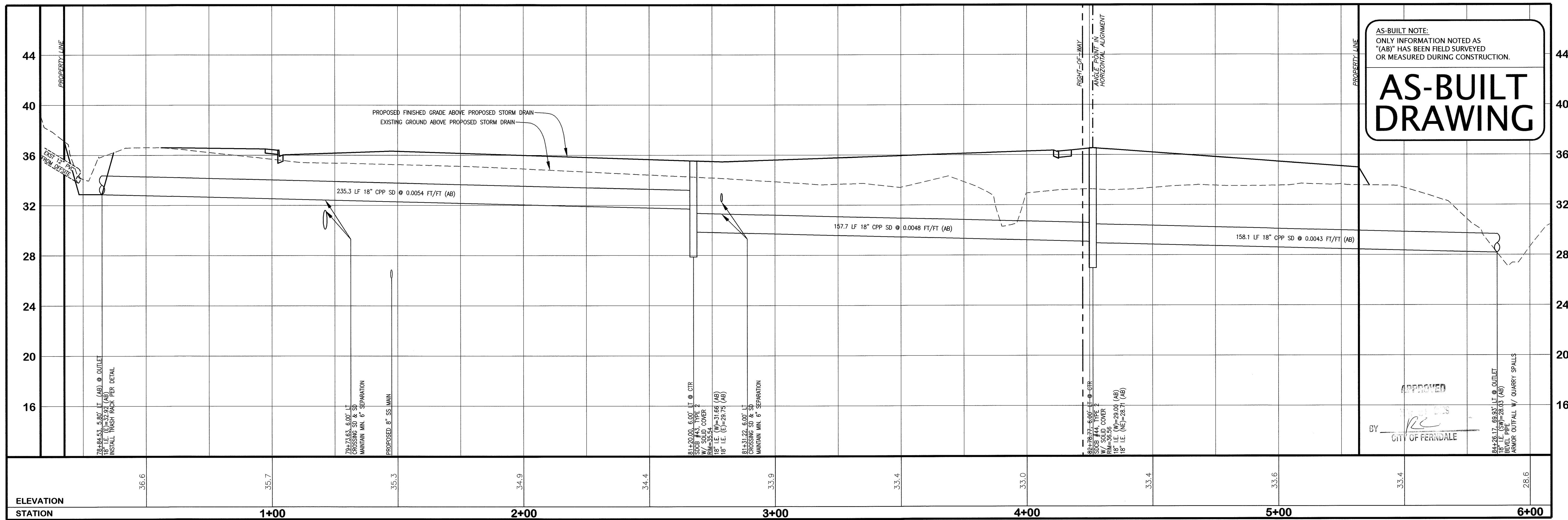
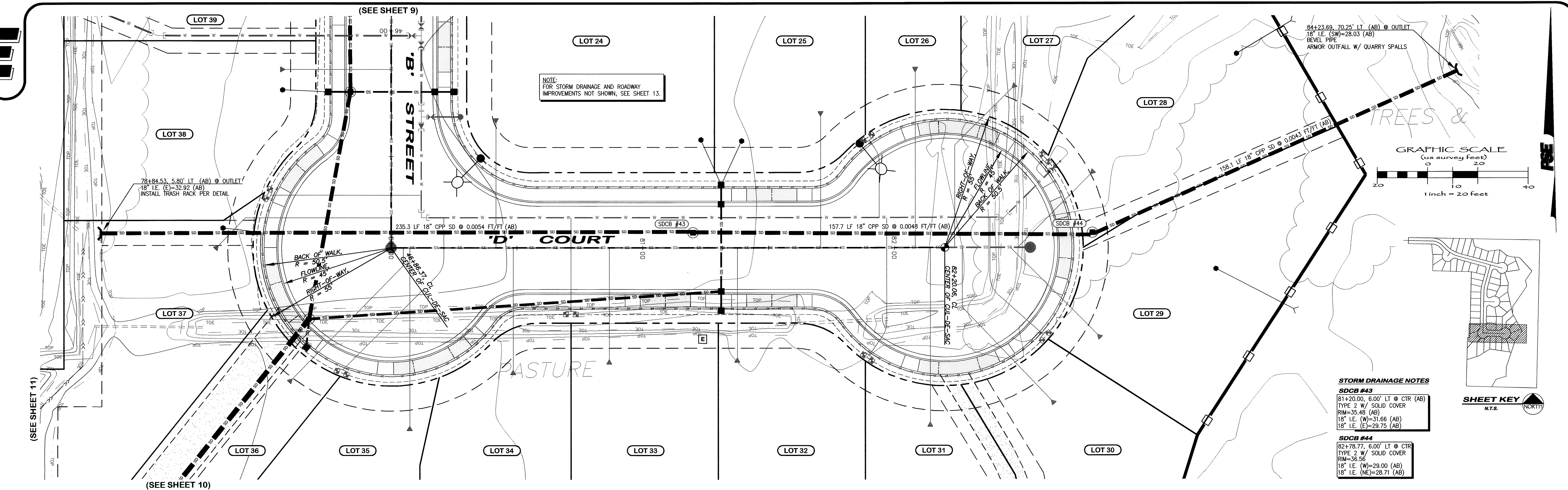


HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	NO.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



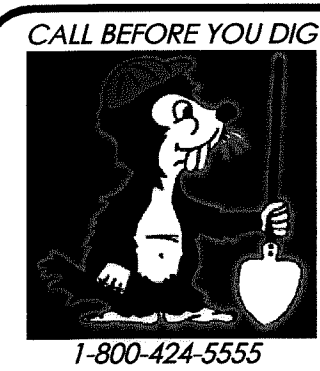
PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE:671.7387 FAX:671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com



HORIZONTAL SCALE: 1" = 20'

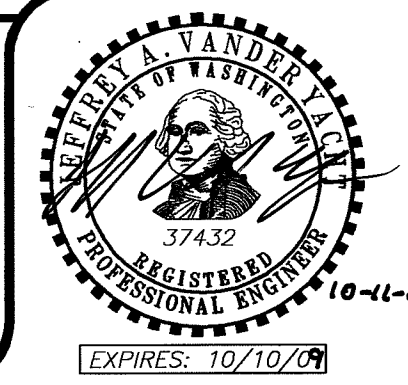
VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK				REVISIONS		ISSUE			



CROWN POINT  
HOLDINGS, INC.  
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FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'D' COURT STORM DRAIN  
BYPASS  
ROADWAY & STORM DRAINAGE IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 14 OF 34

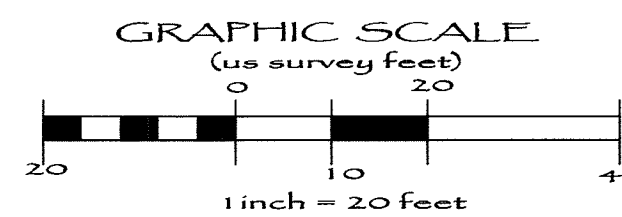
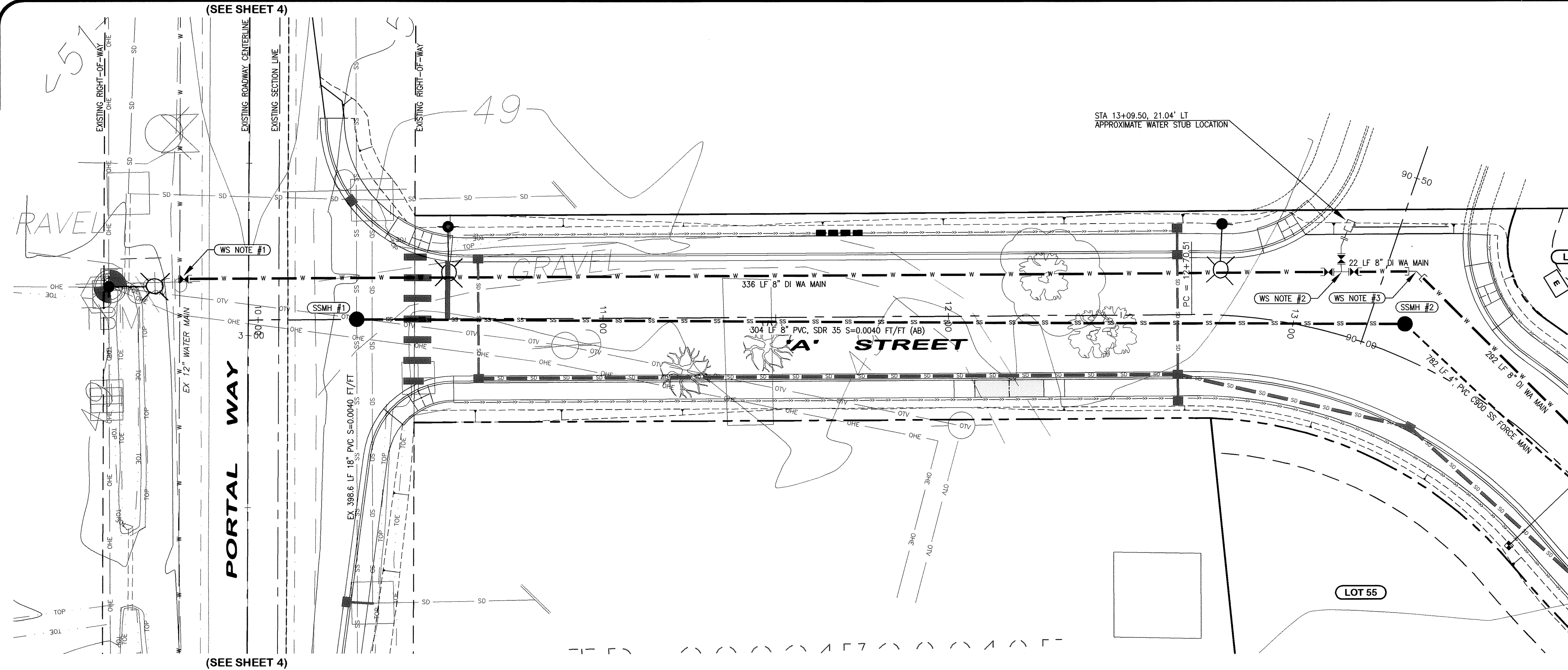


00390.014 7-069 DD



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#### SANITARY SEWER NOTES

**SSMH #1**  
3+04.82, 31.38 RT PORTAL =  
10+28.57, CL "A" (AB)  
RIM=50.22 (AB)  
EX 18" I.E. (N)=39.82 (AB)  
EX 18" I.E. (S)=39.72 (AB)  
8" I.E. (E)=40.42 (AB)  
INSTALL CORR-N-SEAL ROOTS

**SSMH #2**  
13+30.22, 9.21 LT (AB)  
RIM=47.02 (AB)  
4" SS FORCE MAIN I.E. (SE)=41.92 (AB)  
8" I.E. (W)=41.52 (AB)

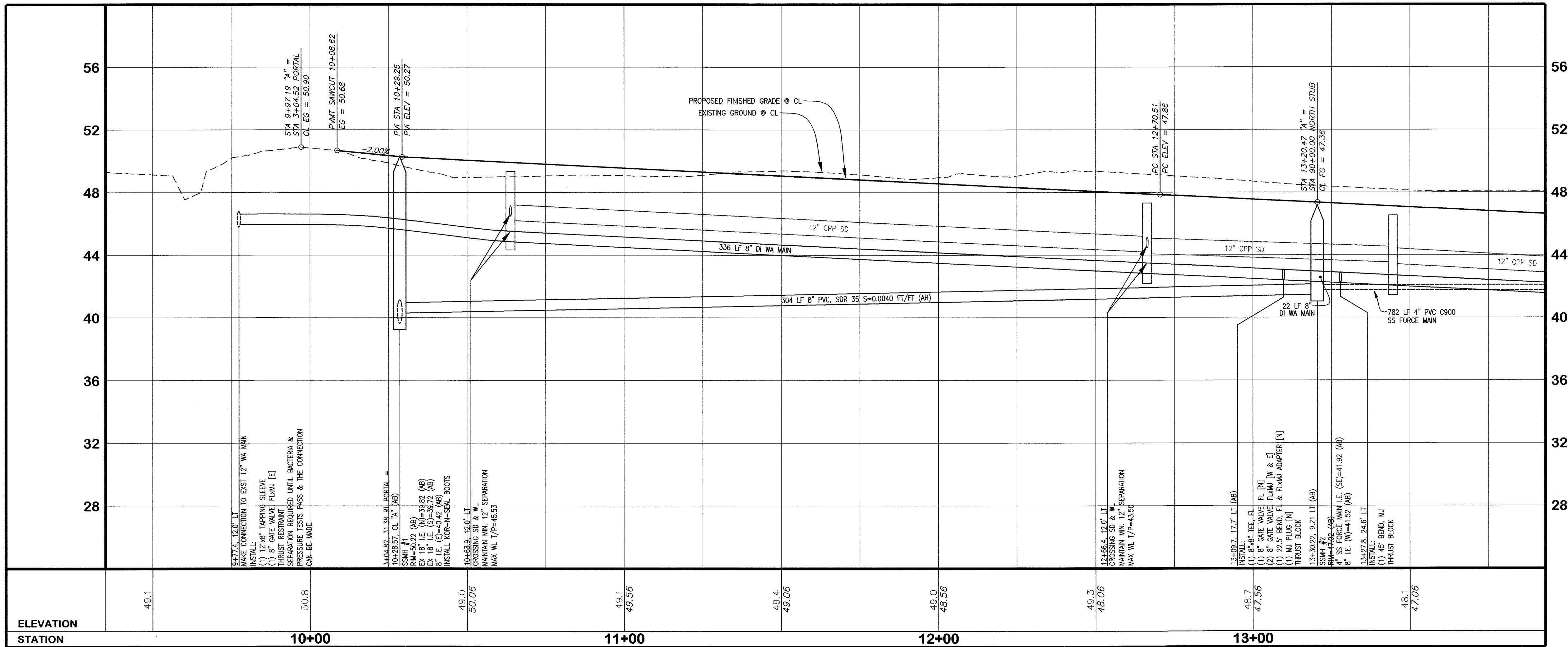
#### WATER SYSTEM NOTES

**WS NOTE #1**  
9+77.4, 12.0' LT  
MAKE CONNECTION TO EXIST 12" WA MAIN  
INSTALL:  
(1) 12"x8" TAPPING SLEEVE  
(1) 8" GATE VALVE, FLxMJ [E]  
THRUST RESTRAINT  
SEPARATION REQUIRED UNTIL BACTERIA &  
PRESSURE TESTS PASS & THE CONNECTION  
CAN BE MADE.

**WS NOTE #2**  
13+09.7, 17.7' LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(1) 8" GATE VALVE, FL [N]  
(2) 8" GATE VALVE, FLxMJ [W & E]  
(1) 22.5' BEND, FL & FLxMJ ADAPTER [N]  
(1) MJ PLUG [N]  
THRUST BLOCK

**WS NOTE #3**  
13+27.8, 24.6' LT  
INSTALL:  
(1) 45' BEND, MJ  
THRUST BLOCK

SHEET KEY  
N.T.S.



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

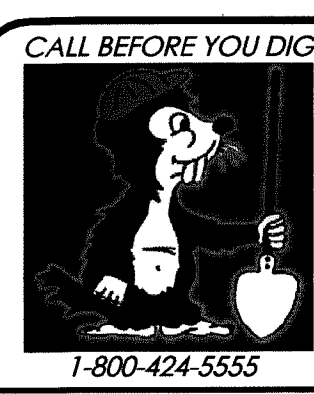
## AS-BUILT DRAWING

APPROVED  
BY   
CITY OF FERNDALE

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 5)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

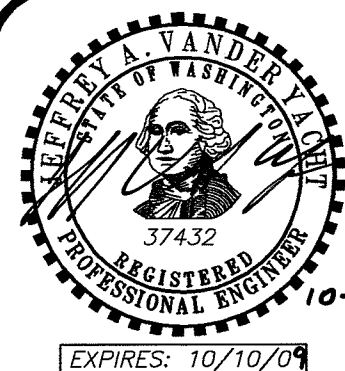
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DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK				REVISIONS		ISSUE			



CROWN POINT  
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6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'A' STREET ~ STATIONS  
10+00 to 13+75  
WATER & SANITARY SEWER IMPROVEMENTS

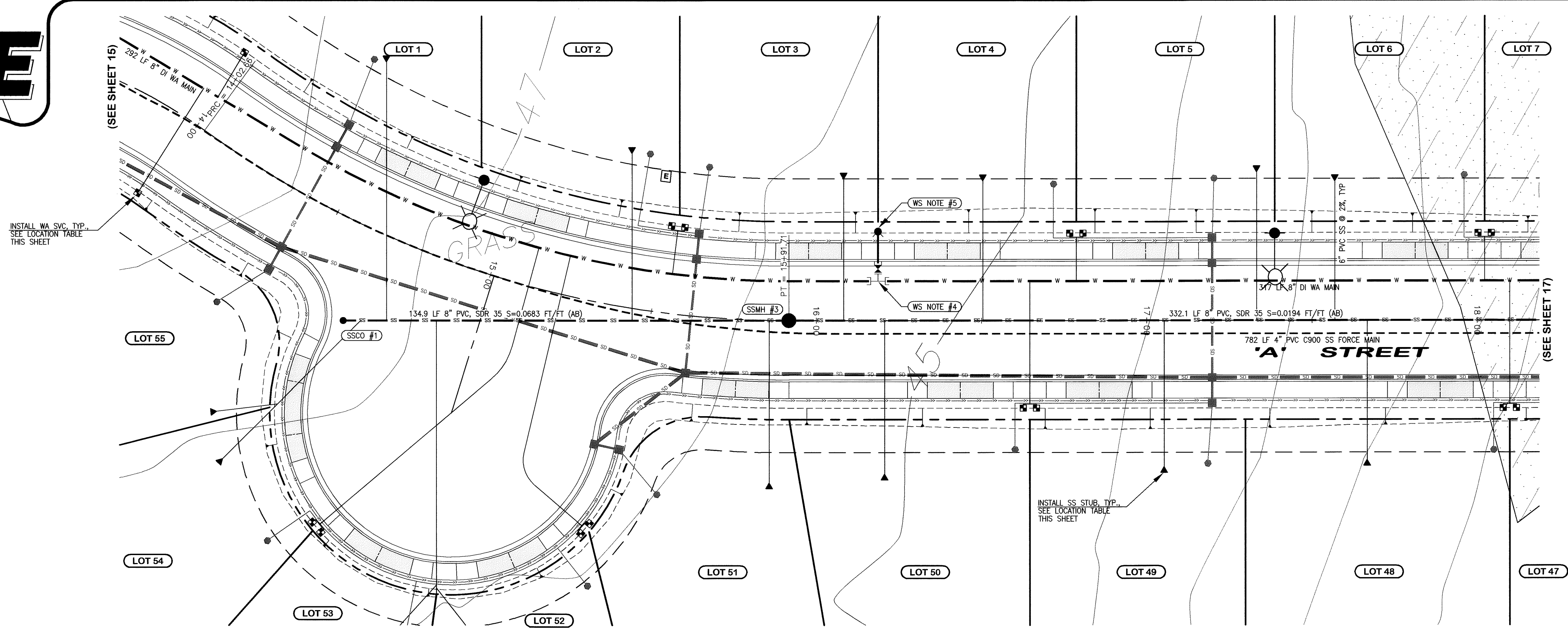
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 15 OF 34



00390.015 710-09 DD



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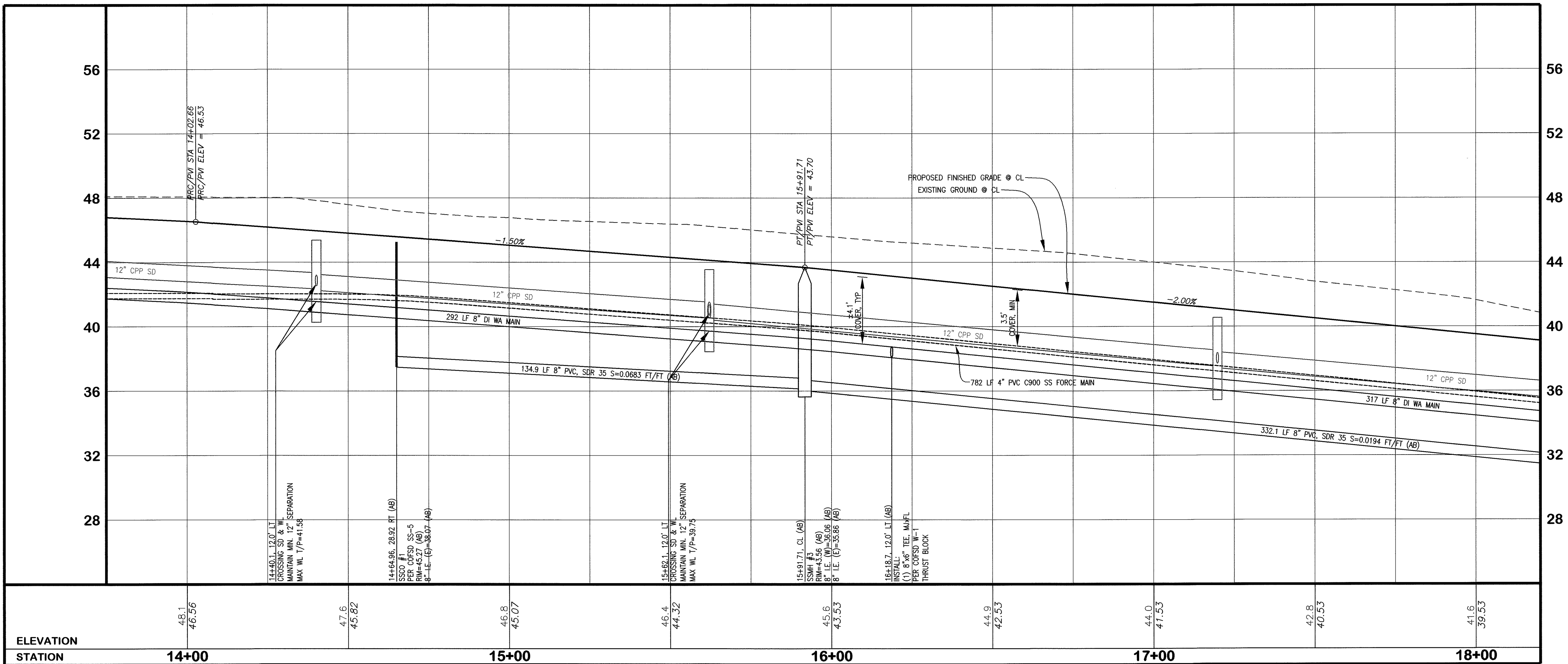
SEWER STUB LOCATION TABLE						
LOT NO.	STREET	S/A & OFFSET @ MAIN	TYPE	S/A & OFFSET @ STUB	STUB I.E.	(AB)
1	"A" STREET	14+76.0 23.8 RT	SINGLE	14+40.9 40.9 LT	40.1	(AB)
2	"A" STREET	15+44.7 3.7 RT	SINGLE	15+35.3 41.9 LT	41.9	(AB)
3	"A" STREET	16+08.3 0.0 CL	SINGLE	16+08.3 40.2 LT	40.2	(AB)
4	"A" STREET	16+50.4 0.0 CL	SINGLE	16+50.4 42.5 LT	39.9	(AB)
5	"A" STREET	17+33.2 0.0 CL	SINGLE	17+33.2 45.0 LT	37.0	(AB)
6	"A" STREET	17+56.9 0.0 CL	SINGLE	17+56.9 42.3 LT	37.5	(AB)
48	"A" STREET	17+66.6 0.0 CL	SINGLE	17+66.6 42.2 RT	37.0	(AB)
49	"A" STREET	17+05.23 0.0 CL	SINGLE	17+05.3 44.3 RT	38.7	(AB)
50	"A" STREET	16+20.7 0.0 CL	SINGLE	16+20.7 46.5 RT	37.8	(AB)
51	"A" STREET	15+85.8 0.1 RT	SINGLE	15+86.6 49.2 RT	42.6	(AB)
52	"A" STREET	14+89.2 18.4 RT	DUAL	15+24.5 111.0 RT	40.4	(AB)
53	"A" STREET	14+03.1 112.8 RT	DUAL	14+03.1 112.8 RT	41.6	(AB)
54	"A" STREET	14+52.3 82.3 RT	DUAL	14+52.3 82.3 RT	43.2	(AB)
55	"A" STREET	14+69.4 26.8 RT	DUAL	14+45.8 70.4 RT	43.4	(AB)

WATER SVC LOCATION TABLE			
LOT NO.	STREET	S/A & OFFSET	TYPE
1	"A" STREET	14+00.3 26.5 LT	3/4" SINGLE
2	"A" STREET	15+52.7 26.5 LT	>1" DUAL
3	"A" STREET	15+57.1 26.5 LT	>1" DUAL
4	"A" STREET	16+76.7 26.5 LT	>1" DUAL
5	"A" STREET	16+80.7 26.5 LT	>1" DUAL
6	"A" STREET	18+00.2 26.5 LT	>1" DUAL
7	"A" STREET	18+04.2 26.5 LT	>1" DUAL
47	"A" STREET	18+11.8 26.5 RT	>1" DUAL
48	"A" STREET	18+07.8 26.5 RT	>1" DUAL
49	"A" STREET	16+66.6 26.5 RT	>1" DUAL
50	"A" STREET	16+62.5 26.5 RT	>1" DUAL
51	"A" STREET	15+42.0 66.5 RT	>1" DUAL
52	"A" STREET	15+40.3 69.9 RT	>1" DUAL
53	"A" STREET	14+80.4 90.7 RT	>1" DUAL
54	"A" STREET	14+77.7 88.8 RT	>1" DUAL
55	"A" STREET	13+94.5 26.5 RT	3/4" SINGLE

**SANITARY SEWER NOTES**  
**SSCO #1**  
14+64.96, 28.92 RT (AB)  
RM=45.27 (AB)  
8" I.E. (E)=38.07 (AB)  
CLEANOUT PER COPS W-1

**SSMH #3**  
15+91.71, CL (AB)  
RM=43.56 (AB)  
8" I.E. (W)=36.06 (AB)  
8" I.E. (E)=35.86 (AB)

**WATER SYSTEM NOTES**  
**WS NOTE #4**  
16+18.7, 12.0' LT (AB)  
INSTALL:  
(1) 8"x6" TEE, MAXFL  
PER COPS W-1  
THRUST BLOCK  
**WS NOTE #5**  
16+18.7, 27.0' LT  
INSTALL:  
(1) HYDRANT ASSEMBLY  
PER DETAIL  
FG 43.36 AT FH



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
(AB) HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

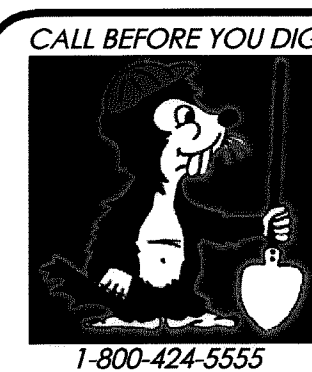
**AS-BUILT  
DRAWING**

APPROVED  
BY *RC*  
CITY OF FERNDALE

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 6)

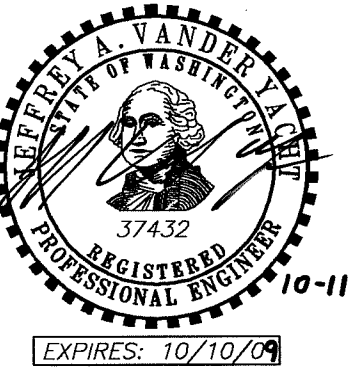
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

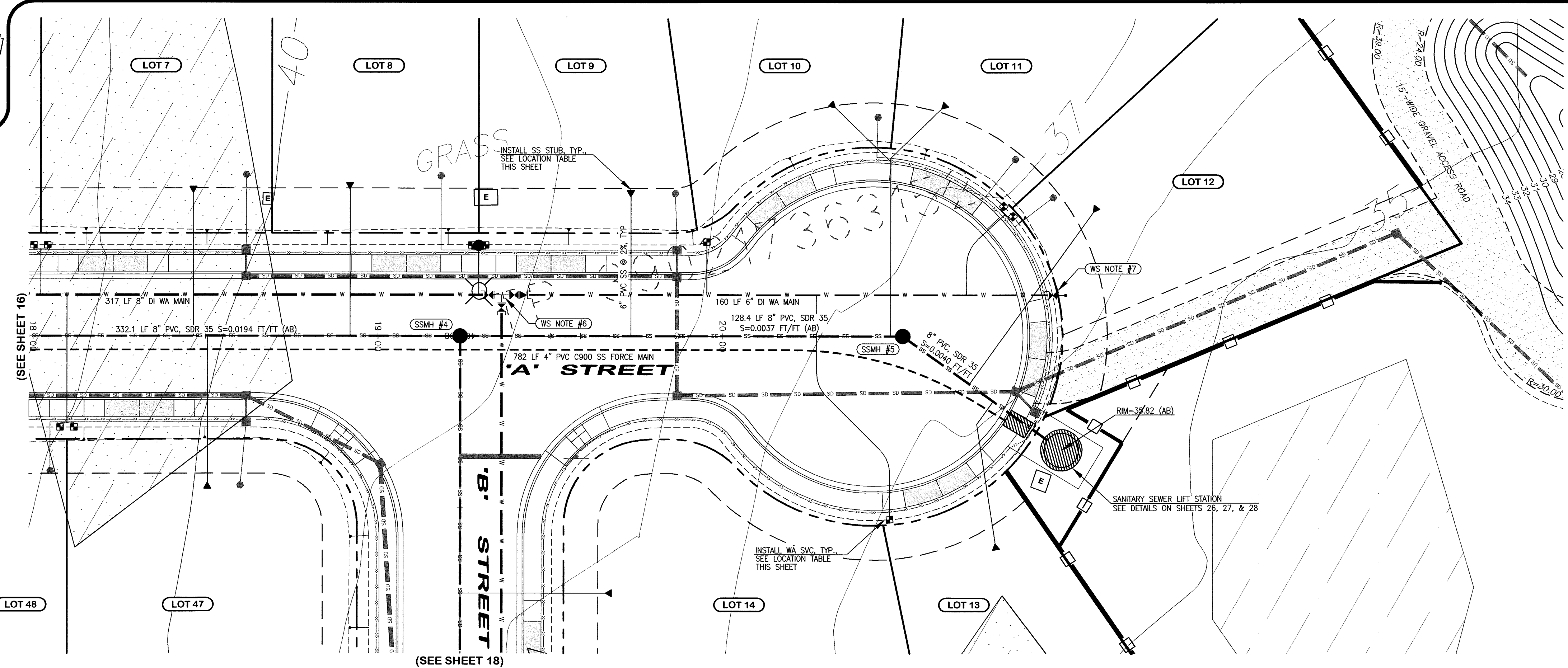
FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	



CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**'A' STREET ~ STATIONS  
13+75 to 18+00**  
WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 16 OF 34





SEWER STUB LOCATION TABLE						
LOT No.	STREET	STA & OFFSET @ MAN	TYPE	STA & OFFSET @ STUB	STUB IE	(AB)
7	"A" STREET	18+46.4 0.0 CL	SINGLE	18+46.4 41.7 LT	36.4	(AB)
8	"A" STREET	18+91.8 0.0 CL	SINGLE	18+91.8 42.8 LT	35.8	(AB)
9	"A" STREET	19+73.3 0.0 CL	SINGLE	19+73.3 40.6 LT	32.9	(AB)
10	"A" STREET	20+48.7 0.0 CL	DUAL	20+32.6 66.5 LT	33.8	(AB)
11	"A" STREET	20+71.5 13.9 RT	SINGLE	21+07.5 36.2 LT	32.9	(AB)
12	"A" STREET	20+78.6 18.7 RT	SINGLE	20+78.1 60.2 RT	31.9	(AB)
13	"A" STREET	18+50.5 0.0 CL	SINGLE	18+50.5 42.6 RT	34.8	(AB)
47	"A" STREET					

WATER SVC LOCATION TABLE			
LOT No.	STREET	STA & OFFSET	TYPE
6	"A" STREET	18+00.2 26.5 LT	>1" DUAL
7	"A" STREET	18+04.2 26.5 LT	>1" DUAL
8	"A" STREET	19+27.2 26.5 LT	>1" DUAL
9	"A" STREET	19+30.2 26.5 LT	>1" DUAL
10	"A" STREET	19+95.3 26.5 LT	3/4" SINGLE
11	"A" STREET	20+81.4 37.8 LT	>1" DUAL
12	"A" STREET	20+84.2 34.9 LT	>1" DUAL
13	"A" STREET	20+48.4 53.3 RT	3/4" SINGLE
47	"A" STREET	18+11.8 26.5 RT	>1" DUAL
48	"A" STREET	18+07.8 26.5 RT	>1" DUAL

SANITARY SEWER NOTES

SSMH #4  
19+23.82, CL (AB)  
RM=37.32 (AB)  
8" I.E. (W)=29.42 (AB)  
8" I.E. (S)=23.12 (AB)  
8" I.E. (E)=23.07 (AB)  
OUTSIDE DROP CONNECTION  
PER COFSD SS-11

SSMH #5  
20+52.23, CL (AB)  
RM=35.80 (AB)  
8" I.E. (W)=22.60 (AB)  
8" I.E. (SE)=22.50 (AB)

WATER SYSTEM NOTES

WS NOTE #6  
19+35.8, 12.0' LT (AB)

INSTALL:  
(1) 8"x8" TEE, FL  
(1) 8" GATE VALVE, FL [E]  
(1) 8"x6" REDUCER, FL[M] [E]  
(2) 8" GATE VALVE, FL[M] [W & S]  
THRUST BLOCK

WS NOTE #7  
20+95.8, 12.0' LT

END CONST. 6" DI WA MAIN  
INSTALL:  
2" BLOW-OFF ASSEMBLY FOR  
NON-EXTENDIBLE MAIN PER COFSD W-10  
THRUST BLOCK

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

APPROVED

BY RC  
CITY OF FERDALE

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 7)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									

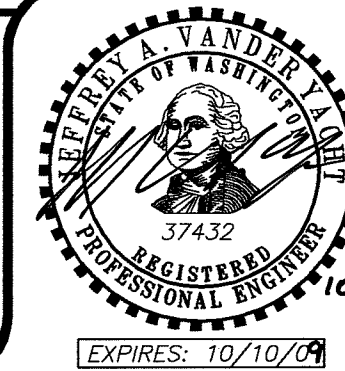
CALL BEFORE YOU DIG



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HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

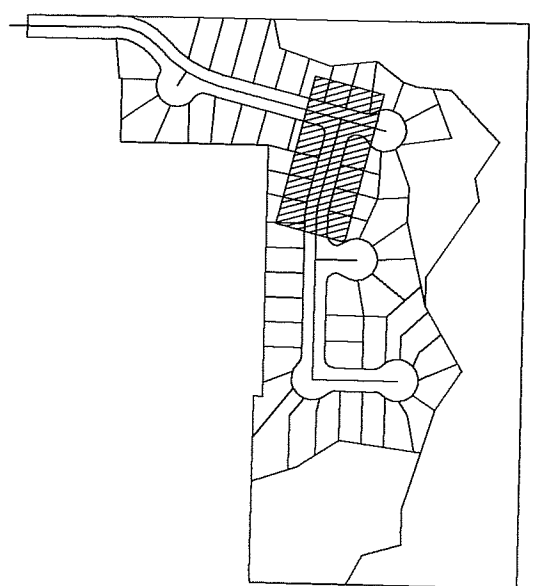
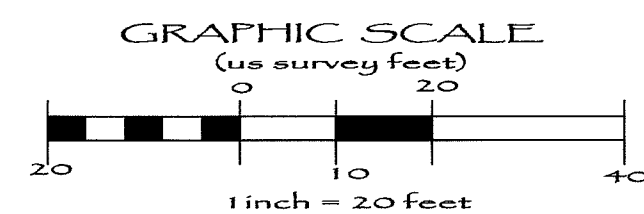
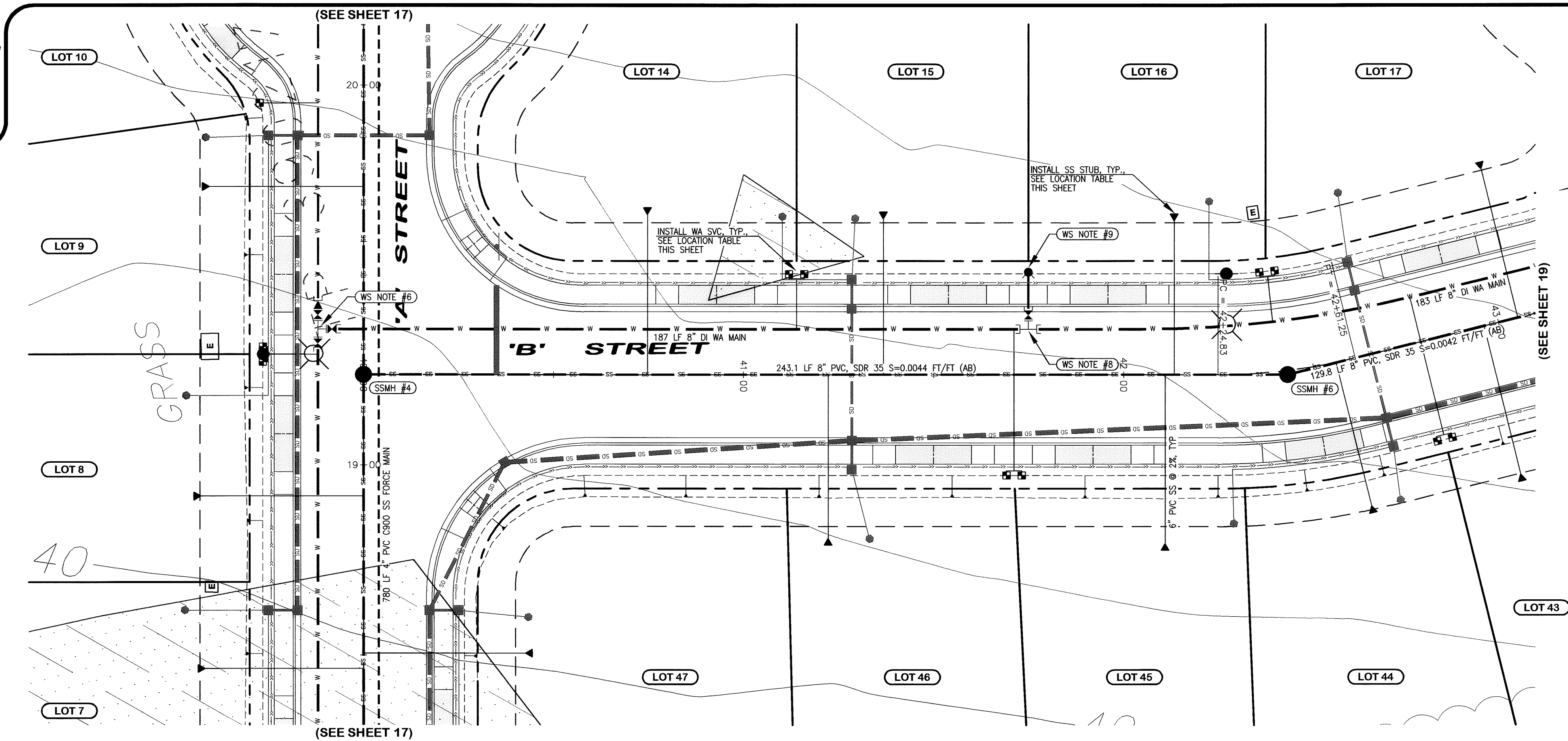
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'A' STREET ~ STATIONS  
18+00 to 22+00  
WATER & SANITARY SEWER IMPROVEMENTS

JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 17 OF 34





PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
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EMAIL: pse@psurvey.com



#### SANITARY SEWER NOTES

##### SSMH #4

40+00.00, CL (AB)  
RM=37.32 (AB)  
8" I.E. (W)=23.42 (AB)  
8" I.E. (S)=23.12 (AB)  
8" I.E. (E)=23.07 (AB)  
OUTSIDE DROP CONNECTION  
PER COPS SS-11

##### SSMH #6

42+43.04, 1.11 RT (AB)  
RM=35.99 (AB)  
8" I.E. (S)=24.29 (AB)  
8" I.E. (N)=24.19 (AB)

#### WATER SYSTEM NOTES

##### WS NOTE #6

WS 40+00, 12.0' LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(1) 8" GATE VALVE, FL [E]  
(1) 8"x6" REDUCER, FLxMJ [E]  
(2) 8" GATE VALVE, FLxMJ [W & S]  
THRUST BLOCK

##### WS NOTE #8

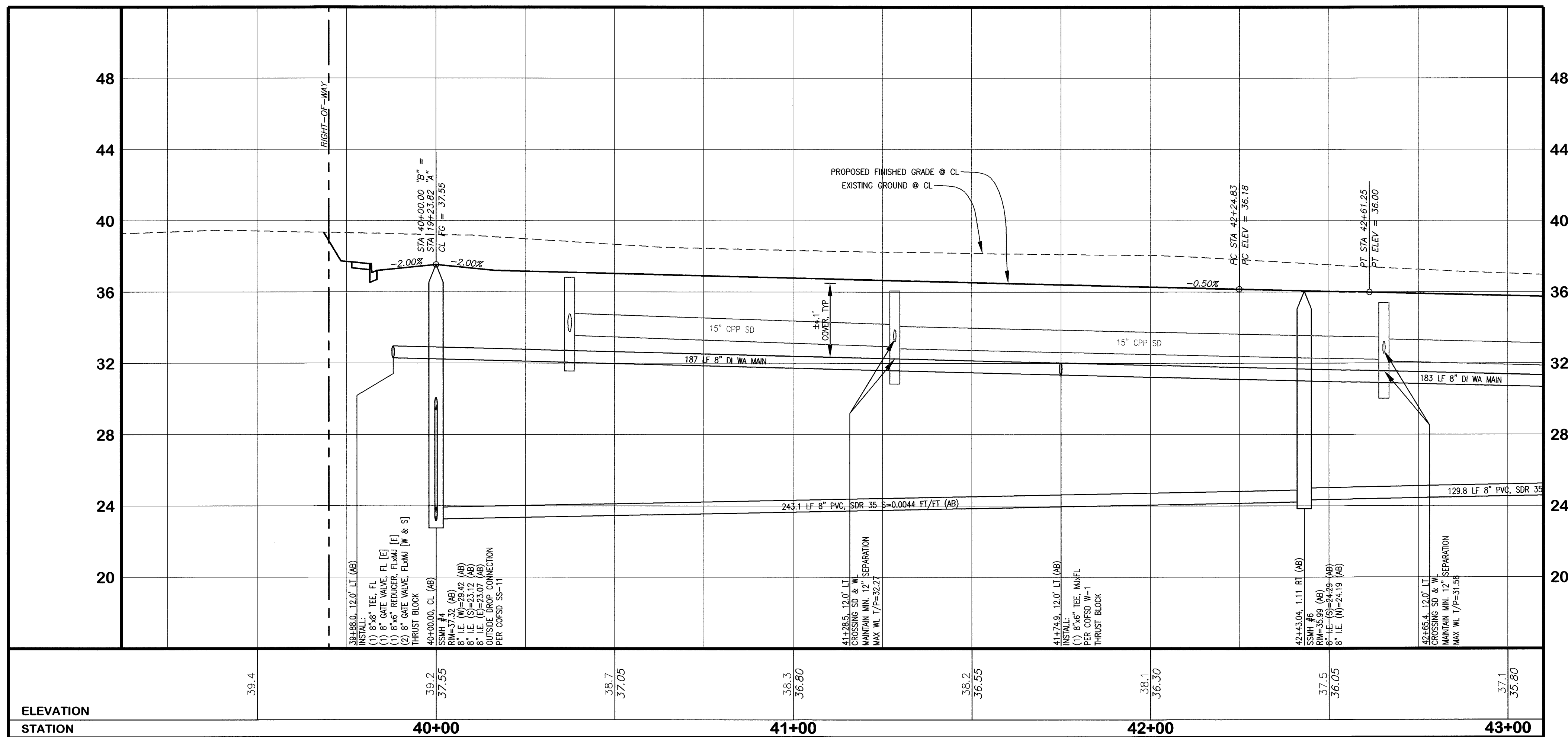
41+74.9, 12.0' LT (AB)  
INSTALL:  
(1) 8"x8" TEE, MxMJ  
PER COPS W-1  
THRUST BLOCK

##### WS NOTE #9

41+74.9, 27.0' LT  
INSTALL:  
(1) HYDRANT ASSEMBLY  
PER DETAIL  
FG 36.63 AT FH

SEWER STUB LOCATION TABLE						
LOT No.	STREET	STA & OFFSET @ MAIN	TYPE	STA & OFFSET @ STUB	STUB I.E.	(AB)
14	"B" STREET	40+74.7 0.0 CL	SINGLE	40+74.7 42.2 LT	31.1	(AB)
15	"B" STREET	41+36.8 0.0 CL	SINGLE	41+36.8 41.1 LT	30.9	(AB)
16	"B" STREET	42+13.3 0.0 CL	SINGLE	42+13.3 40.5 LT	31.4	(AB)
17	"B" STREET	43+05.3 0.0 CL	SINGLE	43+05.3 40.4 LT	30.4	(AB)
44	"B" STREET	42+56.0 0.0 CL	SINGLE	42+57.1 39.0 RT	32.4	(AB)
45	"B" STREET	42+10.9 0.0 CL	SINGLE	42+10.9 44.5 RT	34.7	(AB)
46	"B" STREET	41+22.2 0.0 CL	SINGLE	41+22.2 43.2 RT	32.9	(AB)
47	"A" STREET	18+50.5 0.0 CL	SINGLE	18+50.5 42.6 RT	34.8	(AB)

WATER SVC LOCATION TABLE				
LOT No.	STREET	STA & OFFSET	TYPE	
14	"B" STREET	41+11.9 26.5 LT	> 1" DUAL	
15	"B" STREET	41+15.9 26.5 LT	> 1" DUAL	
16	"B" STREET	42+38.0 26.5 LT	> 1" DUAL	
17	"B" STREET	42+42.9 26.5 LT	> 1" DUAL	
43	"B" STREET	42+80.9 26.5 RT	> 1" DUAL	
44	"B" STREET	42+76.9 26.5 RT	> 1" DUAL	
45	"B" STREET	41+73.1 26.5 RT	> 1" DUAL	
46	"B" STREET	41+69.1 26.5 RT	> 1" DUAL	



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 8)

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'

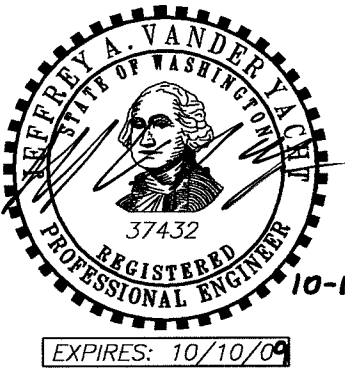
FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg													
SURVEY REFERENCE				VERTICAL DATUM				PLAN CHECK				REVISIONS	
												ISSUE	

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FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'B' STREET ~ STATIONS  
40+00 to 43+00  
WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 18 OF 34

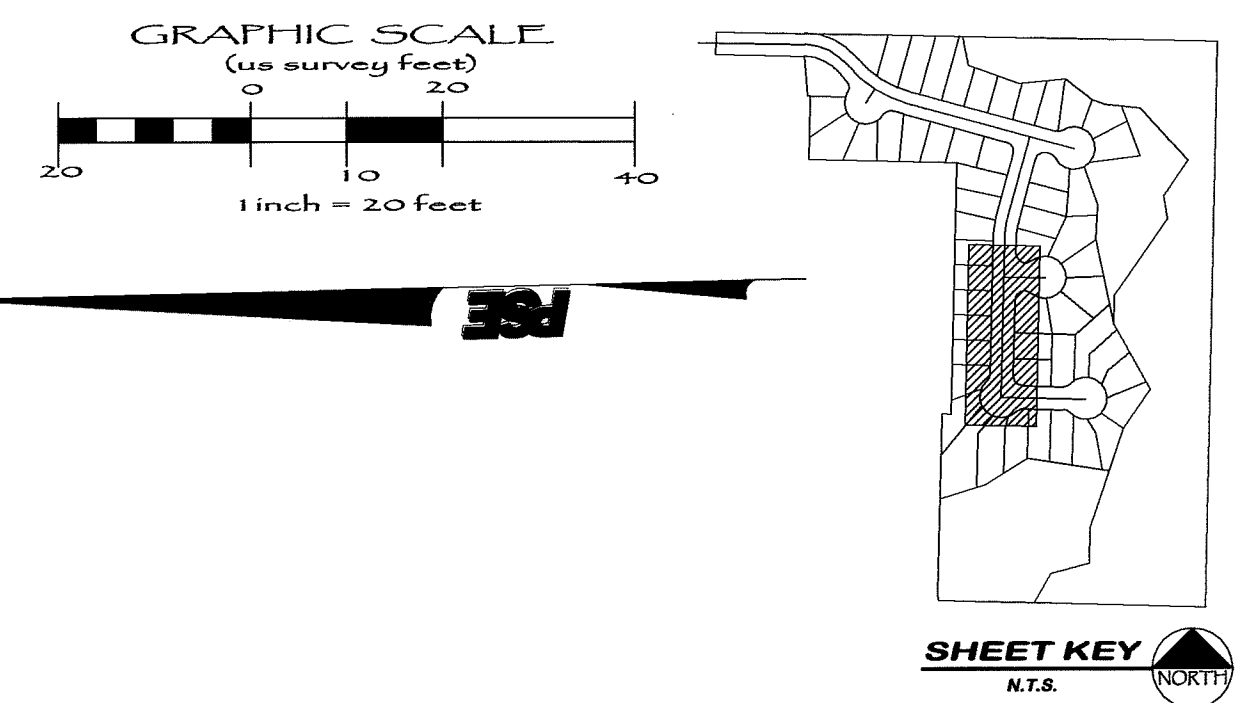
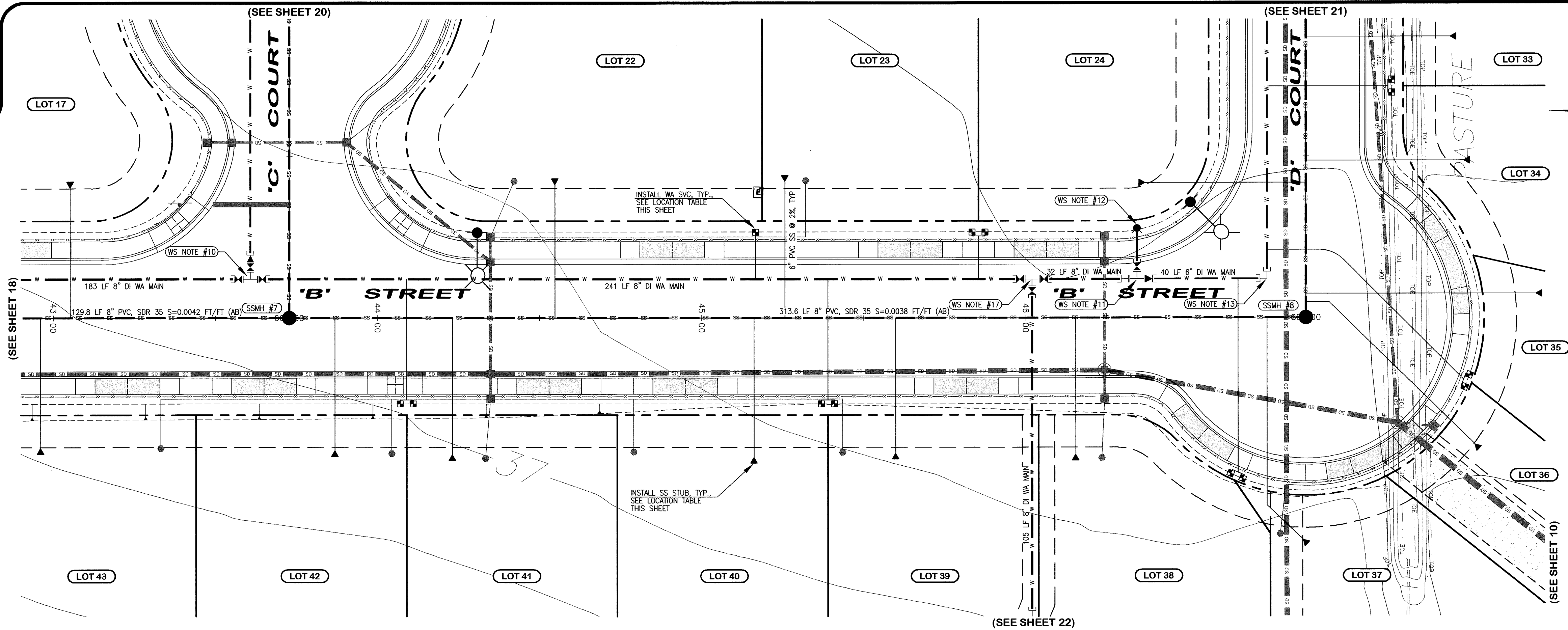


00390.018 7-16-09 DD



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1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685



SEWER STUB LOCATION TABLE						
LOT No.	STREET	S/A & OFFSET @ MAIN	TYPE	S/A & OFFSET @ STUB	STUB L/E	(AB)
17	"B" STREET	43+05.3 0.0 CL	SINGLE	43+05.3 40.4 LT	30.4	(AB)
22	"B" STREET	44+54.7 0.0 CL	SINGLE	44+54.7 41.3 LT	31.1	(AB)
23	"B" STREET	45+25.6 0.0 CL	SINGLE	45+25.6 42.3 LT	31.3	(AB)
24	"D" COURT	80+41.7 0.0 CL	SINGLE	80+41.7 49.7 LT	30.8	(AB)
36	"D" COURT	80+04.8 0.0 CL	SINGLE	79+60.7 52.2 RT	31.6	(AB)
37	"B" STREET	46+74.4 0.0 CL	SINGLE	46+85.5 68.7 RT	29.8	(AB)
38	"B" STREET	46+15.3 0.0 CL	SINGLE	46+15.3 42.3 RT	28.5	(AB)
39	"B" STREET	45+59.8 0.0 CL	SINGLE	45+59.8 41.8 RT	29.5	(AB)
40	"B" STREET	45+16.1 0.0 CL	SINGLE	45+16.1 43.1 RT	31.6	(AB)
41	"B" STREET	44+23.1 0.0 CL	SINGLE	44+23.1 42.3 RT	32.0	(AB)
42	"B" STREET	43+86.8 0.0 CL	SINGLE	43+86.8 41.1 RT	33.3	(AB)
43	"B" STREET	42+96.1 0.0 CL	SINGLE	42+96.1 40.3 RT	32.2	(AB)

WATER SVC LOCATION TABLE			
LOT No.	STREET	S/A & OFFSET	TYPE
22	"B" STREET	45+16.6 26.5 LT	3/4" SINGLE
23	"B" STREET	45+83.4 26.5 LT	1" DUAL
24	"B" STREET	45+87.4 26.5 LT	1" DUAL
37	"B" STREET	46+66.8 49.8 RT	1" DUAL
38	"B" STREET	46+63.1 48.2 RT	1" DUAL
39	"B" STREET	45+40.9 26.5 RT	1" DUAL
40	"B" STREET	45+36.9 26.5 RT	1" DUAL
41	"B" STREET	44+10.9 26.5 RT	1" DUAL
42	"B" STREET	44+06.9 26.5 RT	1" DUAL

SANITARY SEWER NOTES

**SSMH #7**  
43+72.75, CL (AB)  
RIM=35.43 (AB)  
8" I.E. (S)=24.93 (AB)  
8" I.E. (E)=24.93 (AB)  
8" I.E. (N)=24.93 (AB)

**SSMH #8**  
46+86.37, CL (AB)  
RIM=36.33 (AB)  
8" I.E. (E)=26.23 (AB)  
8" I.E. (N)=26.13 (AB)

WATER SYSTEM NOTES

**WS NOTE #10**  
43+60.8, 12.0" LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(1) 8" GATE VALVE, FL [E]  
(1) 8"x6" REDUCER, FLxMJ [E]  
(2) 8" GATE VALVE, FLxMJ [N & S]  
THRUST BLOCK

**WS NOTE #11**  
46+34.3, 12.0" LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(1) MANFL ADAPTER [N]  
(1) 8"x6" REDUCER, FLxMJ [S]  
(1) 6" GATE VALVE, FLxMJ [E]  
PER COFSD W-1  
THRUST BLOCK

**WS NOTE #12**  
46+34.3, 27.6" LT  
INSTALL:  
(1) HYDRANT ASSEMBLY  
PER DETAIL  
EQ. 36.34 AT FH

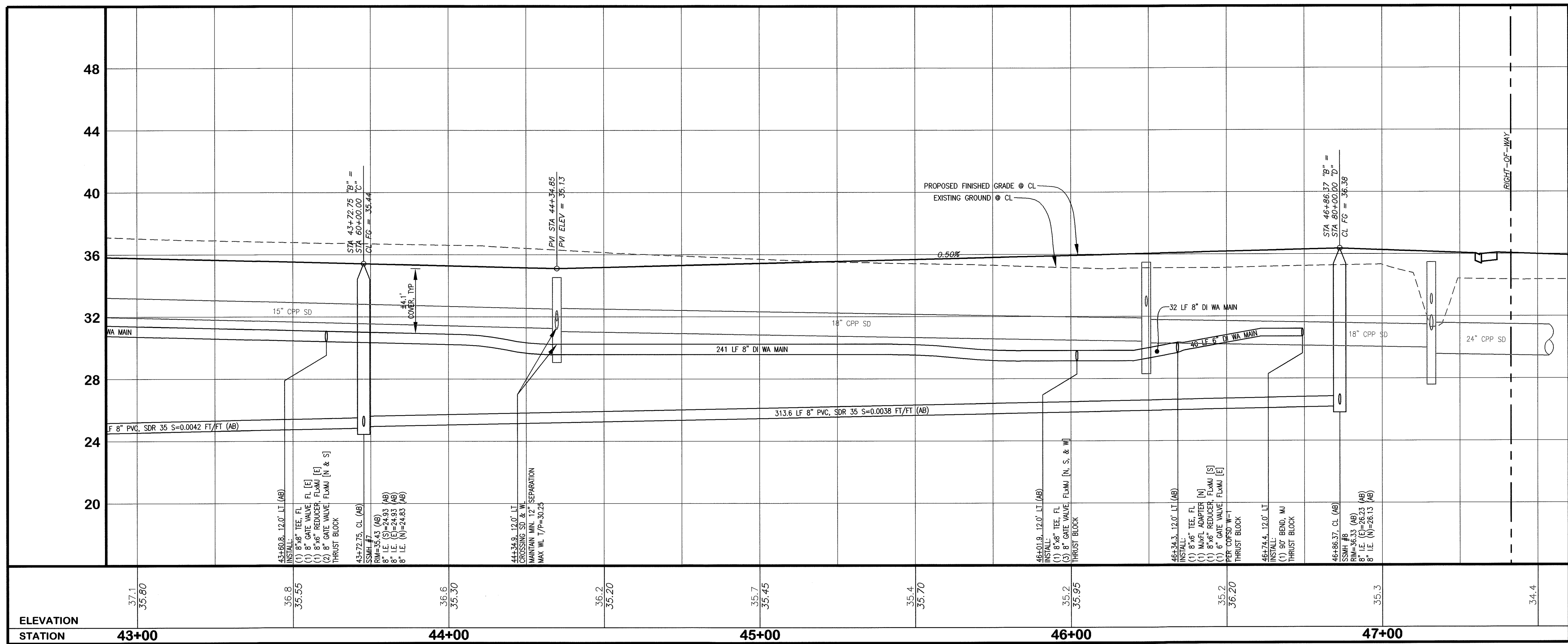
**WS NOTE #13**  
46+74.4, 12.0" LT  
INSTALL:  
(1) 90° BEND, MJ  
THRUST BLOCK

**WS NOTE #17**  
46+01.9, 12.0" LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(3) 8" GATE VALVE, FLxMJ [N, S, & W]  
THRUST BLOCK

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

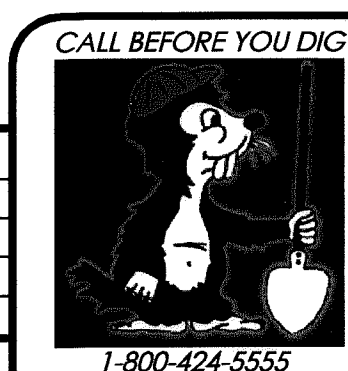
AS-BUILT  
DRAWING

BY: [Signature]  
CITY OF FERNDALE



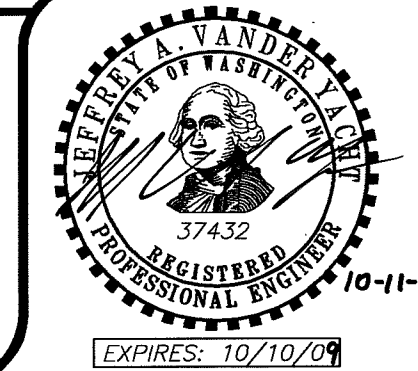
HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



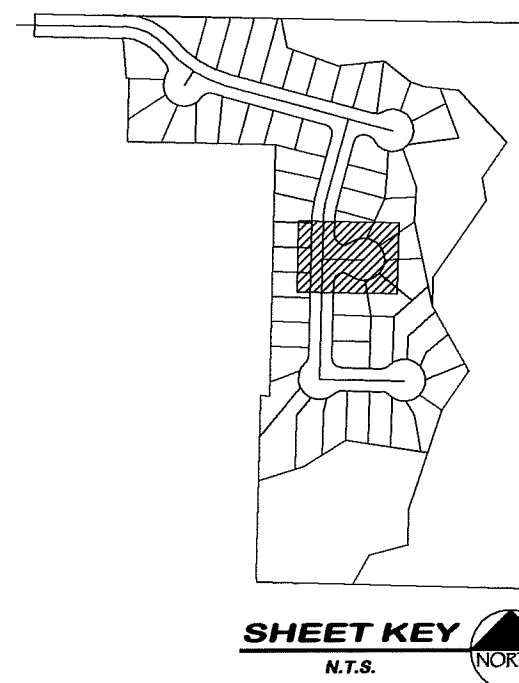
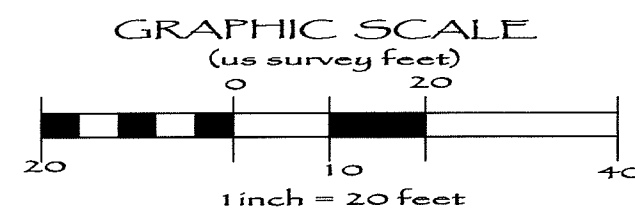
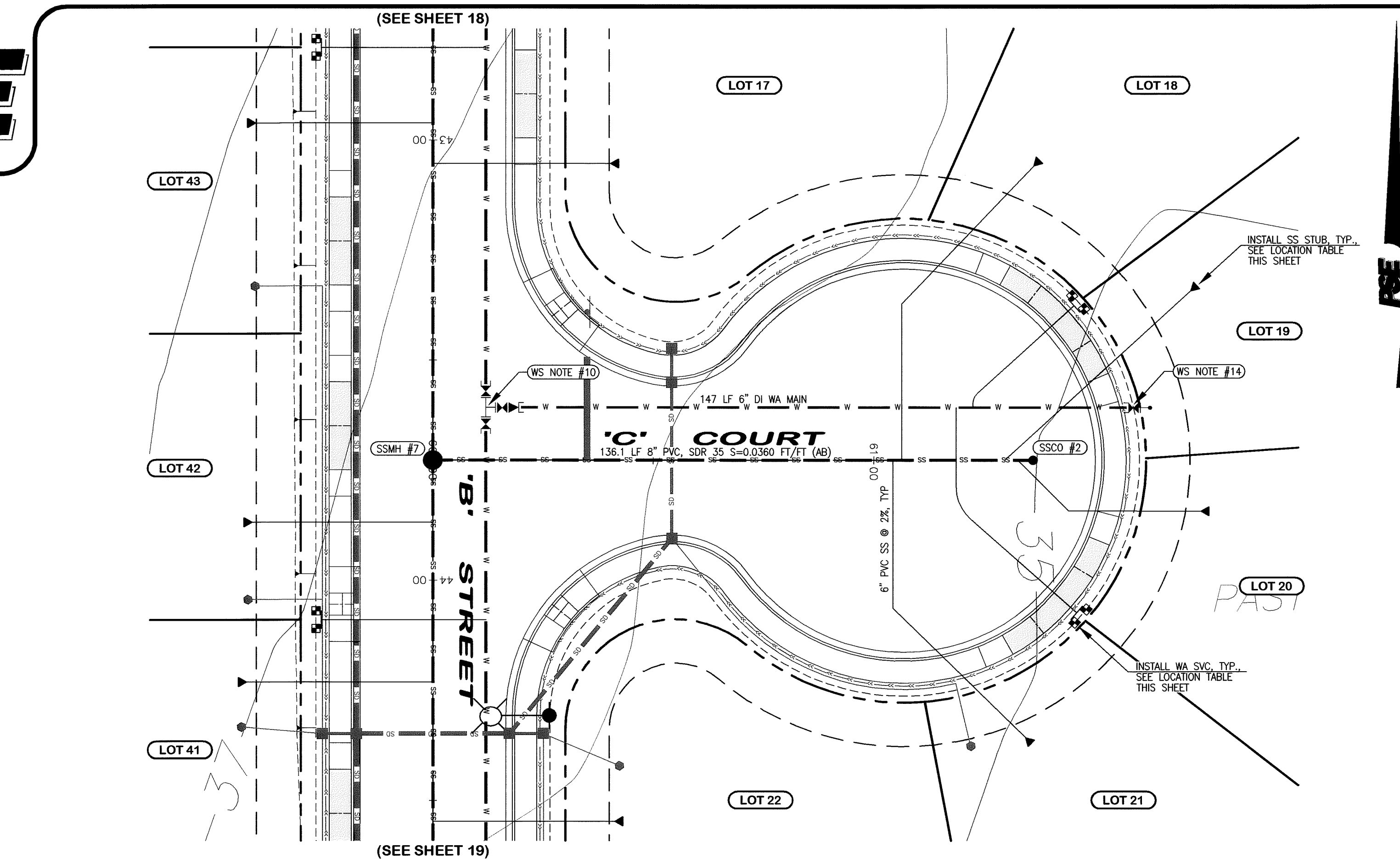
CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
"B" STREET ~ STATIONS  
43+00 to 47+50  
WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 19 OF 34





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www.psesurvey.com  
EMAIL: pse@psurvey.com



#### SANITARY SEWER NOTES

##### SSMH #7

43+12.75, CL (AB)  
RIM=35.43 (AB)  
8" I.E. (S)=24.93 (AB)  
8" I.E. (E)=24.93 (AB)  
8" I.E. (N)=24.83 (AB)

##### SSCO #2

61+36.09, CL (AB)  
RIM=36.43 (AB)  
8" I.E. (W)=28.83 (AB)  
CLEANOUT PER COFSD SS-5

#### WATER SYSTEM NOTES

##### WS NOTE #10

43+60.8, 12.0" LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(1) 8" GATE VALVE, FL [E]  
(1) 8"x6" REDUCER, FLxMJ [E]  
(2) 8" GATE VALVE, FLxMJ [N & S]  
THRUST BLOCK

##### WS NOTE #14

61+58.9, 12.0" LT  
END CONST. 6" DI WA MAIN  
INSTALL:  
2" BLOW-OFF ASSEMBLY FOR  
NON-EXTENDIBLE MAIN PER COFSD W-10  
THRUST BLOCK

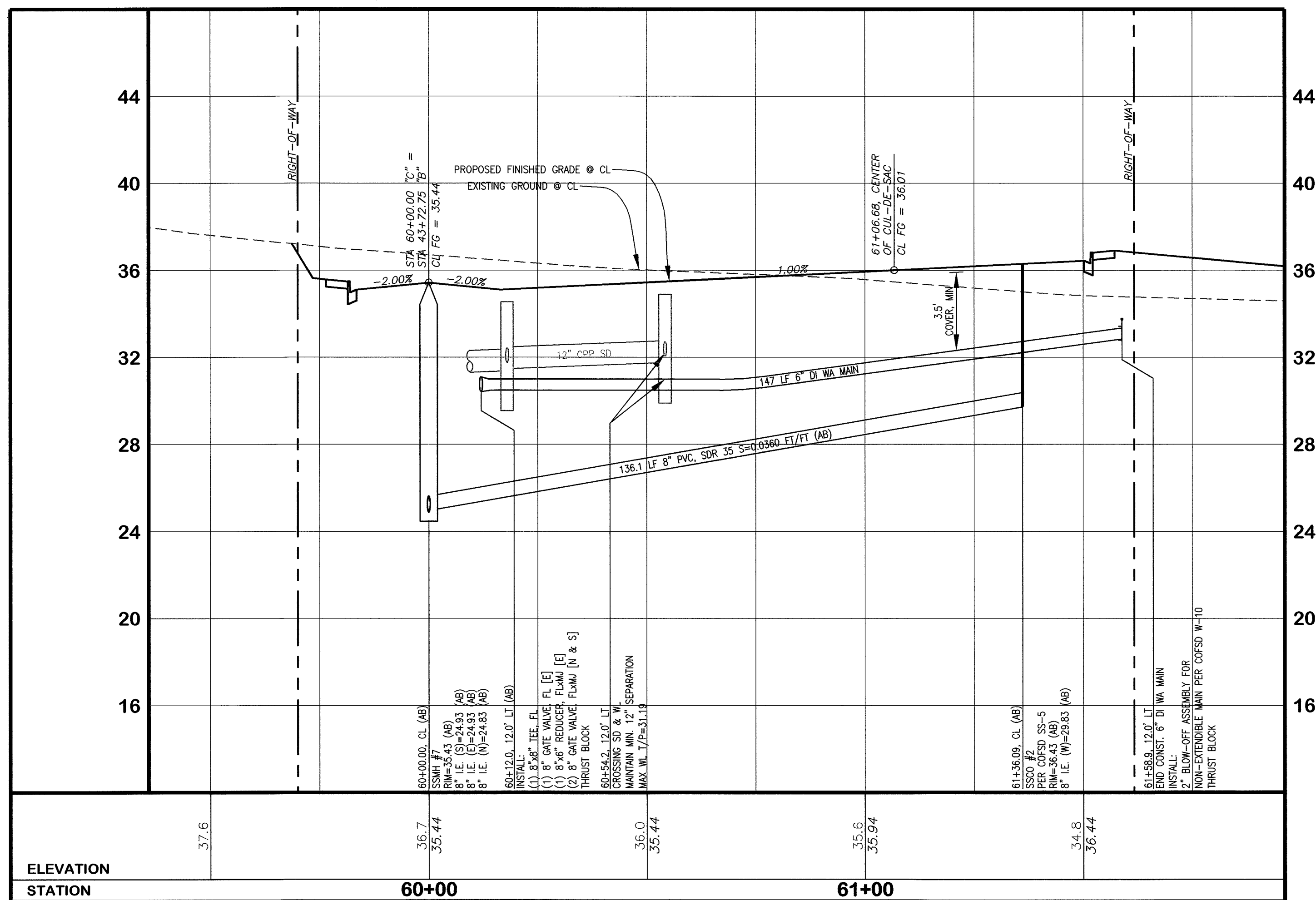
#### SEWER STUB LOCATION TABLE

LOT No.	STREET	S/A & OFFSET @ MAIN	TYPE	S/A & OFFSET @ STUB	STUB I.E.	(AB)
17	"B" STREET	43+05.3 0.0 CL	SINGLE	43+05.3 40.4 LT	30.4	(AB)
18	"C" COURT	61+06.3 0.0 CL	SINGLE	61+06.3 67.0 LT	32.4	(AB)
19	"C" COURT	61+29.6 0.0 CL	SINGLE	61+71.9 38.6 LT	32.0	(AB)
20	"C" COURT	61+32.6 0.0 CL	SINGLE	61+74.2 11.5 RT	31.6	(AB)
21	"C" COURT	61+04.3 0.0 CL	SINGLE	61+34.4 63.0 RT	31.1	(AB)
22	"B" STREET	44+54.7 0.0 CL	SINGLE	44+54.7 41.3 LT	31.1	(AB)

#### WATER SVC LOCATION TABLE

LOT No.	STREET	S/A & OFFSET	TYPE
18	"C" COURT	61+44.9 37.4 LT	>1" DUAL
19	"C" COURT	61+47.6 34.5 LT	>1" DUAL
20	"C" COURT	61+48.1 33.8 RT	>1" DUAL
21	"C" COURT	61+45.5 36.8 RT	>1" DUAL

* WATER METER BOXES FOR LOTS 18 THROUGH 21  
SHALL BE TRAFFIC RATED.



HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'

#### AS-BUILT NOTE:

ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

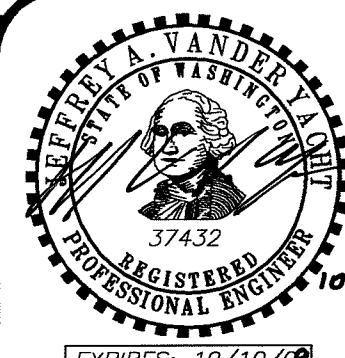
APPROVED

BY   
CITY OF FERNDALE

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 12)

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
'C' COURT

WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 20 OF 34

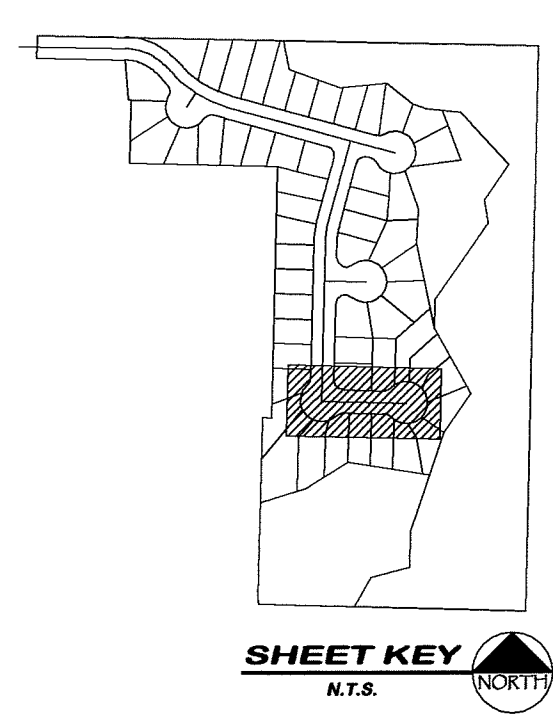
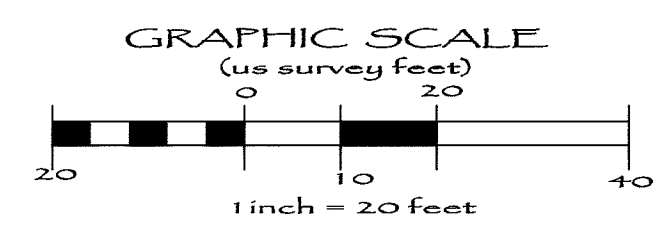
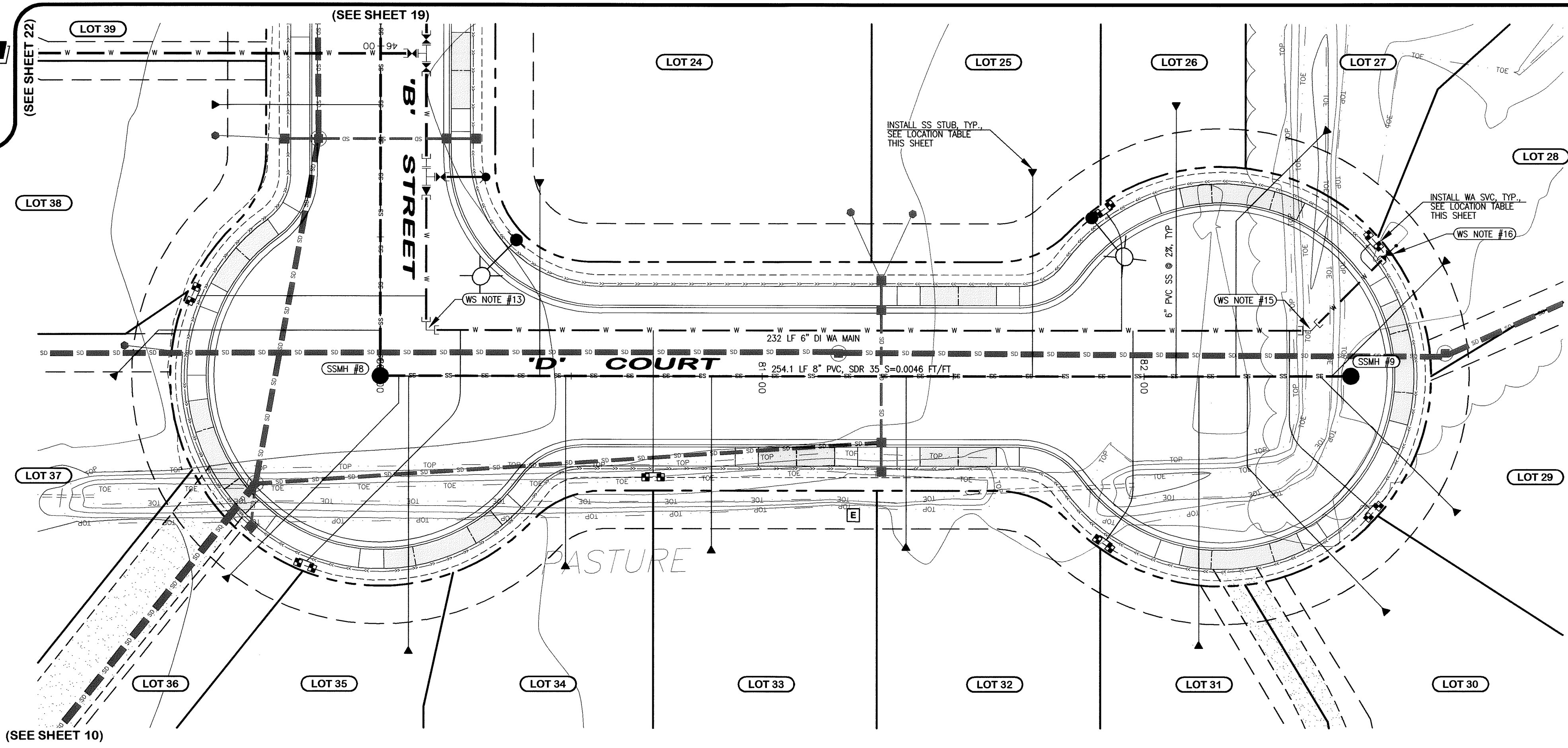


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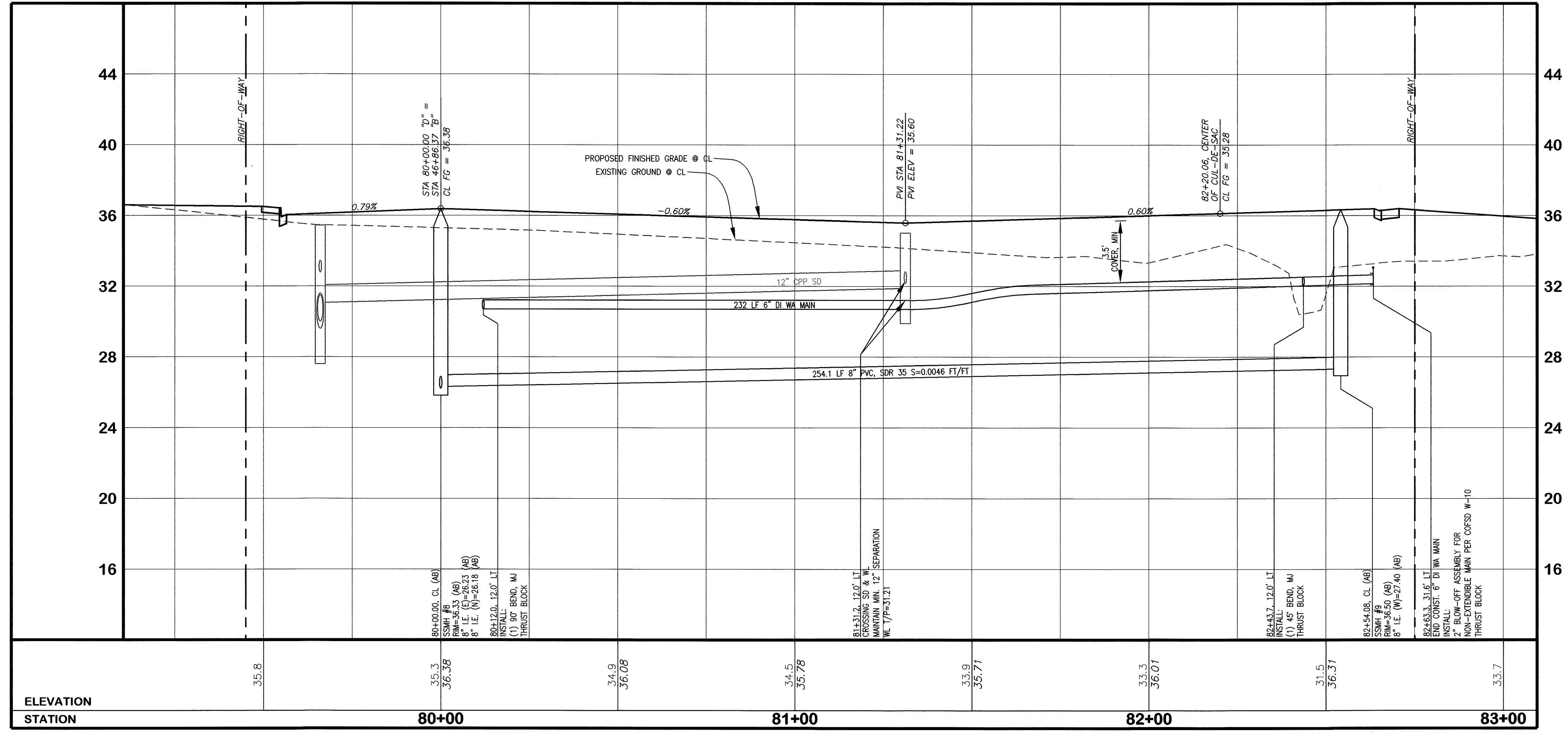
CROWN POINT  
HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248



**SANITARY SEWER NOTES**  
**SSMH #8**  
46+86.37, CL (AB)  
RIM=36.33 (AB)  
8" I.E. (E)=26.23 (AB)  
8" I.E. (N)=26.13 (AB)  
**SSMH #9**  
82+54.06, CL (AB)  
RIM=36.50 (AB)  
8" I.E. (W)=27.40 (AB)  
**WATER SYSTEM NOTES**  
**WS NOTE #13**  
46+74.4, 12.0' LT  
INSTALL:  
(1) 90° BEND, MJ  
THRUST BLOCK  
**WS NOTE #15**  
82+43.7, 12.0' LT  
INSTALL:  
(1) 45° BEND, MJ  
THRUST BLOCK  
**WS NOTE #16**  
82+63.3, 31.6' LT  
END CONST. 6" DI WA MAIN  
INSTALL:  
2" BLOW-OFF ASSEMBLY FOR  
NON-EXTENDIBLE MAIN PER COFSD W-10  
THRUST BLOCK

SEWER STUB LOCATION TABLE					
LOT No.	STREET	STA & OFFSET @ MAIN	TYPE	STA & OFFSET @ STUB	STUB I.E.
24	"D" COURT	80+41.7 0.0 CL	SINGLE	80+41.7 49.7 LT	30.8 (AB)
25	"D" COURT	81+70.7 0.0 CL	SINGLE	81+70.7 52.5 LT	30.5 (AB)
26	"D" COURT	82+08.3 0.0 CL	SINGLE	82+08.3 70.0 LT	30.6 (AB)
27	"D" COURT	82+24.0 0.0 CL	SINGLE	82+46.9 63.6 LT	31.3 (AB)
28	"D" COURT	82+49.0 0.0 CL	SINGLE	82+78.0 29.3 LT	30.5 (AB)
29	"D" COURT	82+46.1 0.0 CL	SINGLE	82+80.8 34.6 RT	30.1 (AB)
30	"D" COURT	82+27.0 0.0 CL	SINGLE	82+62.4 60.8 RT	31.1 (AB)
31	"D" COURT	82+14.3 0.0 CL	SINGLE	82+14.3 69.5 RT	29.8 (AB)
32	"D" COURT	81+37.6 0.0 CL	SINGLE	81+37.6 43.9 RT	28.1 (AB)
33	"D" COURT	80+88.8 0.0 CL	SINGLE	80+88.8 44.5 RT	29.5 (AB)
34	"D" COURT	80+48.5 0.0 CL	SINGLE	80+48.5 48.8 RT	30.4 (AB)
35	"D" COURT	80+07.4 0.0 CL	SINGLE	80+07.4 71.0 RT	31.6 (AB)
36	"D" COURT	80+04.8 0.0 CL	SINGLE	79+60.7 52.2 RT	31.6 (AB)
37	"B" STREET	46+74.4 0.0 CL	SINGLE	46+85.5 68.7 RT	29.8 (AB)
38	"B" STREET	46+15.3 0.0 CL	SINGLE	46+15.3 42.3 RT	28.5 (AB)

WATER SVC LOCATION TABLE			
LOT No.	STREET	STA & OFFSET	TYPE
25	"D" COURT	81+87.7 42.6 LT	> 1" DUAL
26	"D" COURT	81+91.0 44.9 LT	> 1" DUAL
27	"D" COURT	82+58.6 37.1 LT	> 1" DUAL
28	"D" COURT	82+61.3 34.1 LT	> 1" DUAL
29	"D" COURT	82+61.4 34.0 RT	> 1" DUAL
30	"D" COURT	82+58.7 37.0 RT	> 1" DUAL
31	"D" COURT	81+91.0 44.9 RT	> 1" DUAL
32	"D" COURT	81+87.7 42.6 RT	> 1" DUAL
33	"D" COURT	80+73.5 26.5 RT	> 1" DUAL
34	"D" COURT	80+69.5 26.5 RT	> 1" DUAL
35	"D" COURT	47+36.8 17.8 RT	> 1" DUAL
36	"D" COURT	47+35.4 21.5 RT	> 1" DUAL



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AS-BUILT" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

APPROVED  
BY   
CITY OF FERDALE

(CORRESPONDING ROADWAY & STORM DRAINAGE IMPROVEMENTS SEE SHEET 13)

HORIZONTAL SCALE: 1" = 20' VERTICAL SCALE: 1" = 4'

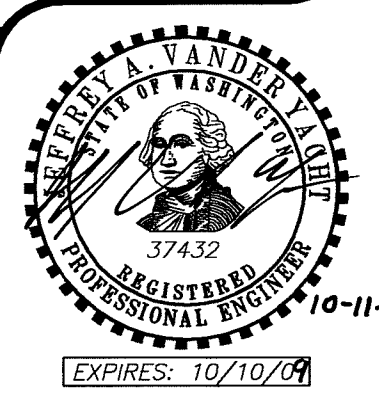
FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVT	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



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FERDALE, WASHINGTON 98248

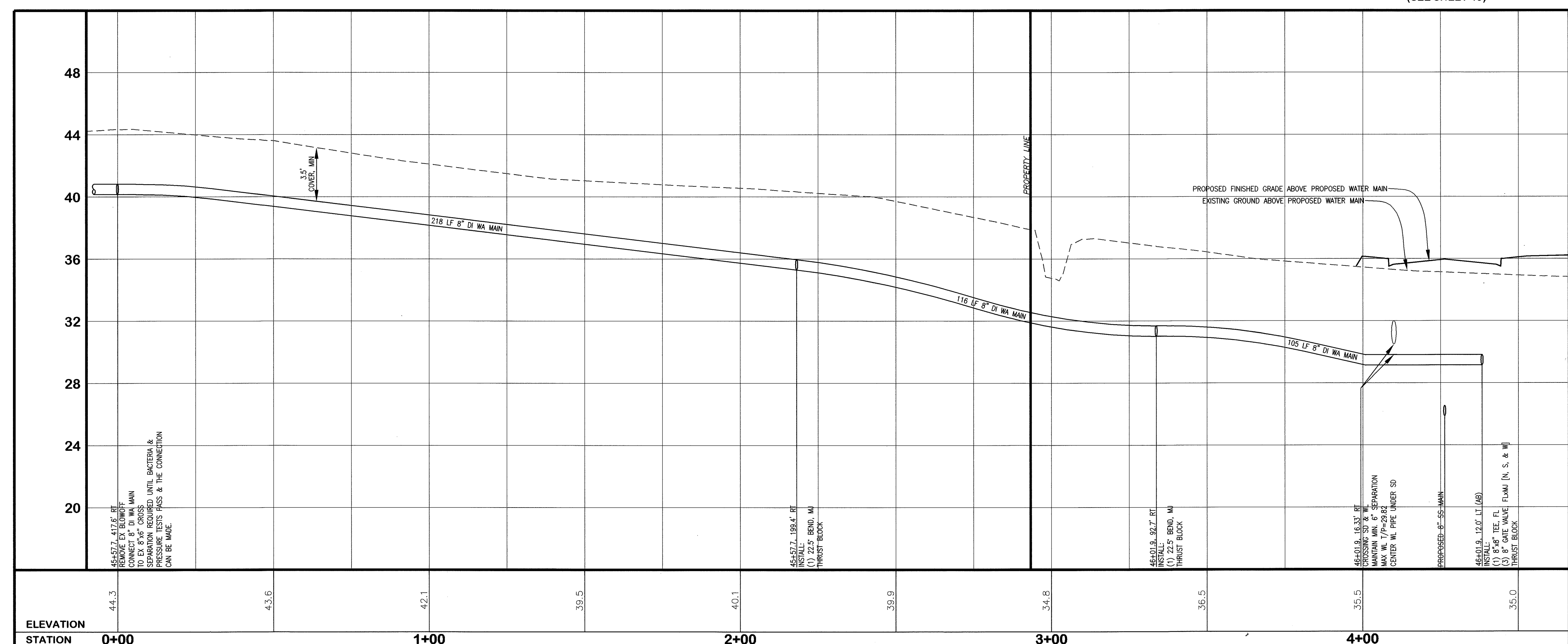
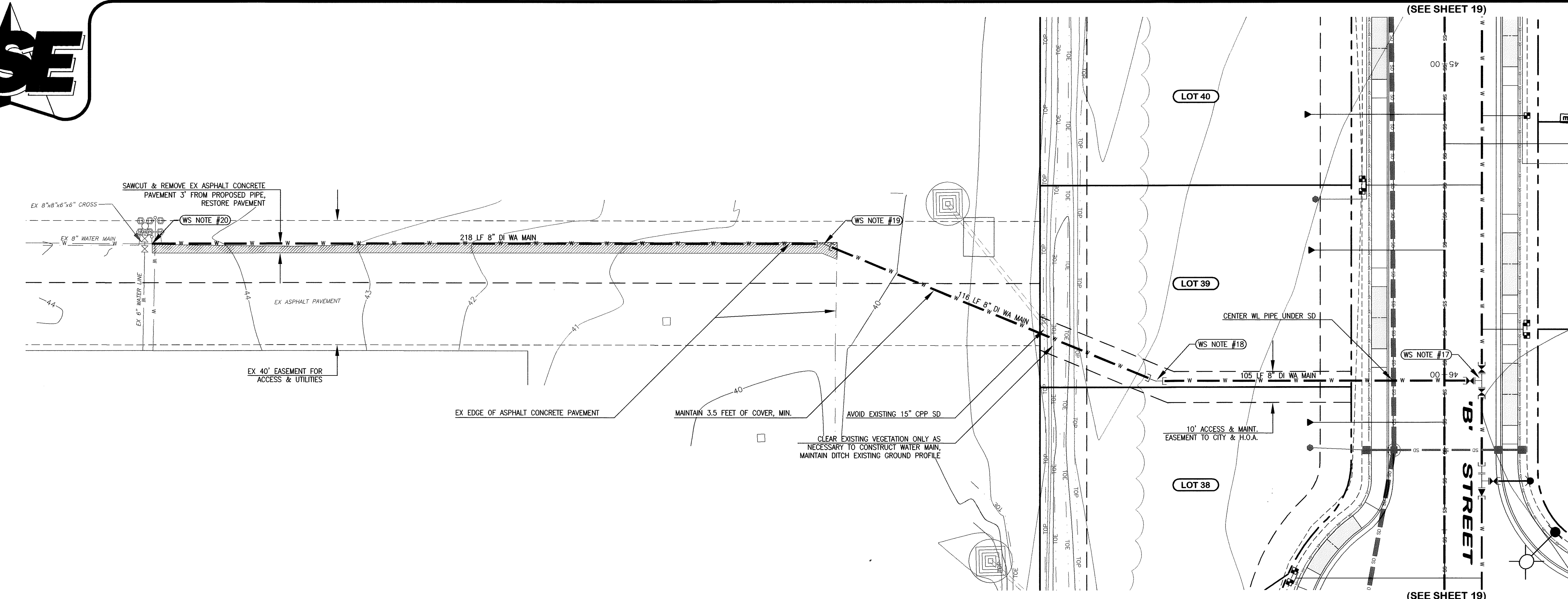
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**'D' COURT**

WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 21 OF 34

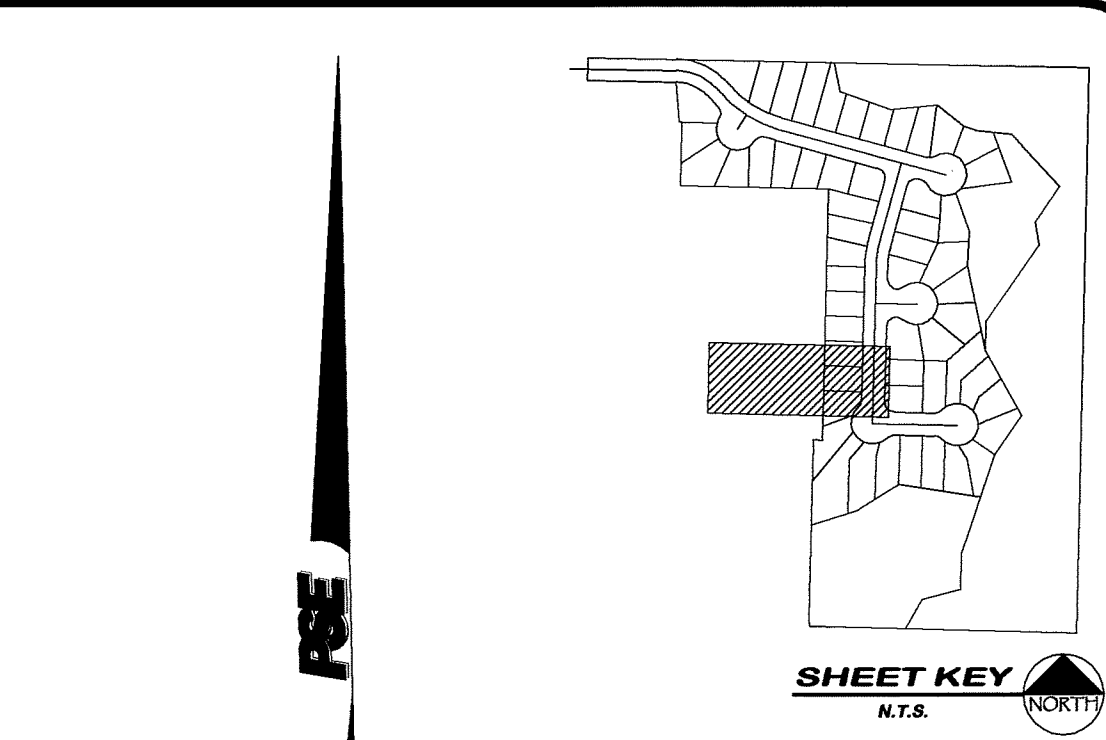




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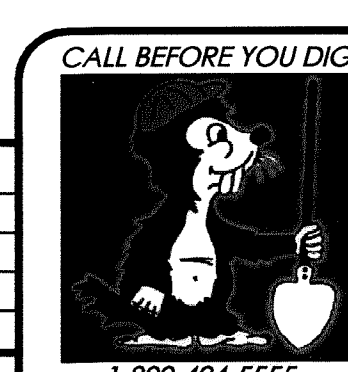
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DESIGN: SEE SURVEY NOTES, SHEET 1									
STAKING:									
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FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'		
STAKING:				DESIGN	BEA	JVT	VERT: 1" = 4'		
ASBUILT:				XREF:					
DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
REVISIONS									
1 AS-BUILT DRAWINGS 04/03/07									
2 AS-BUILT DRAWINGS 07/02/07									
3 AS-BUILT DRAWINGS 10/01/07									
ISSUE									



- WATER SYSTEM NOTES**
- WS NOTE #17**  
46+01.9, 12.0' LT (AB)  
INSTALL:  
(1) 8"x8" TEE, FL  
(2) 8" GATE VALVE, FLxW [N, S, & W]  
THRUST BLOCK
- WS NOTE #18**  
46+01.9, 92.7' RT  
INSTALL:  
(1) 22.5' BEND, WJ  
THRUST BLOCK
- WS NOTE #19**  
45+57.7, 199.4' RT  
INSTALL:  
(1) 22.5' BEND, WJ  
THRUST BLOCK
- WS NOTE #20**  
45+57.7, 417.6' RT  
REMOVE EX BLOWOFF  
CONNECT 8" DI WA MAIN TO EX 8"x6" CROSS  
SEPARATION REQUIRED UNTIL BACTERIA &  
PRESSURE TESTS PASS & THE CONNECTION  
CAN BE MADE.

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**



CROWN POINT HOLDINGS, INC.  
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FERNDALE, WASHINGTON 98248

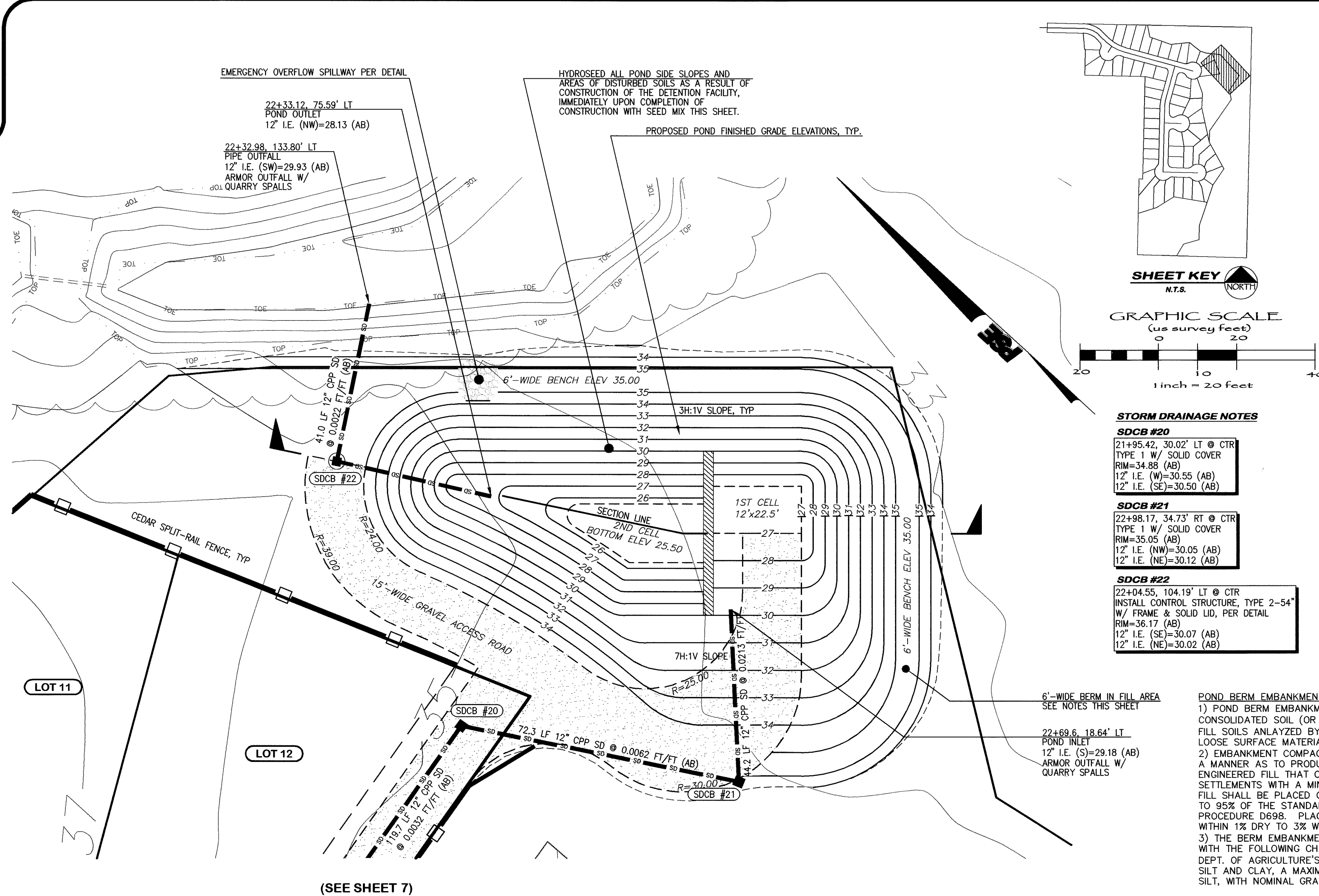
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**CONNECTION TO OFFSITE  
WATER MAIN**  
WATER & SANITARY SEWER IMPROVEMENTS  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 22 OF 34





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PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685



### STORM DETENTION POND SLOPES SEED MIX CONSTITUENTS

ALL POND SIDE SLOPES AND AREAS DISTURBED AS A RESULT OF CONSTRUCTION OF THE DETENTION POND FACILITY SHALL BE HYDROSEED WITH THE FOLLOWING "LOW GROW" SEED MIX AT A RATE OF 2.5# PER 1000 SF:

SEED NAME	% OF MIX
DWARF TALL FESCUE	40%
DWARF PERENNIAL RYE "BARCLAY"	30%
RED FESCUE	25%
COLONIAL BENTGRASS	5%

### POND DESIGN INFORMATION:

WETPOND DEAD STORAGE  
BOTTOM CELL 1 ELEV. = 28.00'  
(OVER-EXCAVATE 1.0' TO ELEV. 27.00'  
FOR SEDIMENT STORAGE)  
BOTTOM CELL 2 ELEV. = 26.00'  
(OVER-EXCAVATE 0.5' TO ELEV. 25.50'  
FOR SEDIMENT STORAGE)  
TOP ELEV. = 30.00'  
VOLUME CELL 1 = 1,813 CF (25%)  
VOLUME CELL 2 = 5,510 CF (75%)  
TOTAL = 7,323 CF (100%)

DETENTION ACTIVE STORAGE  
VOLUME (30.00' TO 33.84') = 22,281 CF  
BOTTOM ELEV. = 30.00'  
TOP ELEV. = 33.84'  
OVERFLOW SPILLWAY ELEV. = 34.27'  
MAX. OVERFLOW ELEV. = 34.45'  
TOP BERM ELEV. = 35.00'

### STORM DRAINAGE NOTES

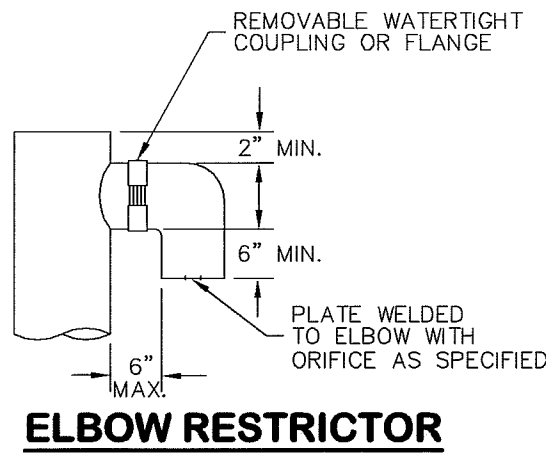
**SDCB #20**  
21+95.42, 30.02' LT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=34.88 (AB)  
12" I.E. (SW)=29.93 (AB)  
12" I.E. (W)=30.55 (AB)  
12" I.E. (SE)=30.50 (AB)

**SDCB #21**  
22+98.17, 34.73' RT @ CTR  
TYPE 1 W/ SOLID COVER  
RIM=35.05 (AB)  
12" I.E. (NW)=30.05 (AB)  
12" I.E. (NE)=30.12 (AB)

**SDCB #22**  
22+04.55, 104.18' LT @ CTR  
INSTALL CONTROL STRUCTURE, TYPE 2-54"  
W/ FRAME & SOLID LID, PER DETAIL  
RIM=36.17 (AB)  
12" I.E. (SE)=30.07 (AB)  
12" I.E. (NE)=30.02 (AB)

### POND BERM EMBANKMENT NOTES

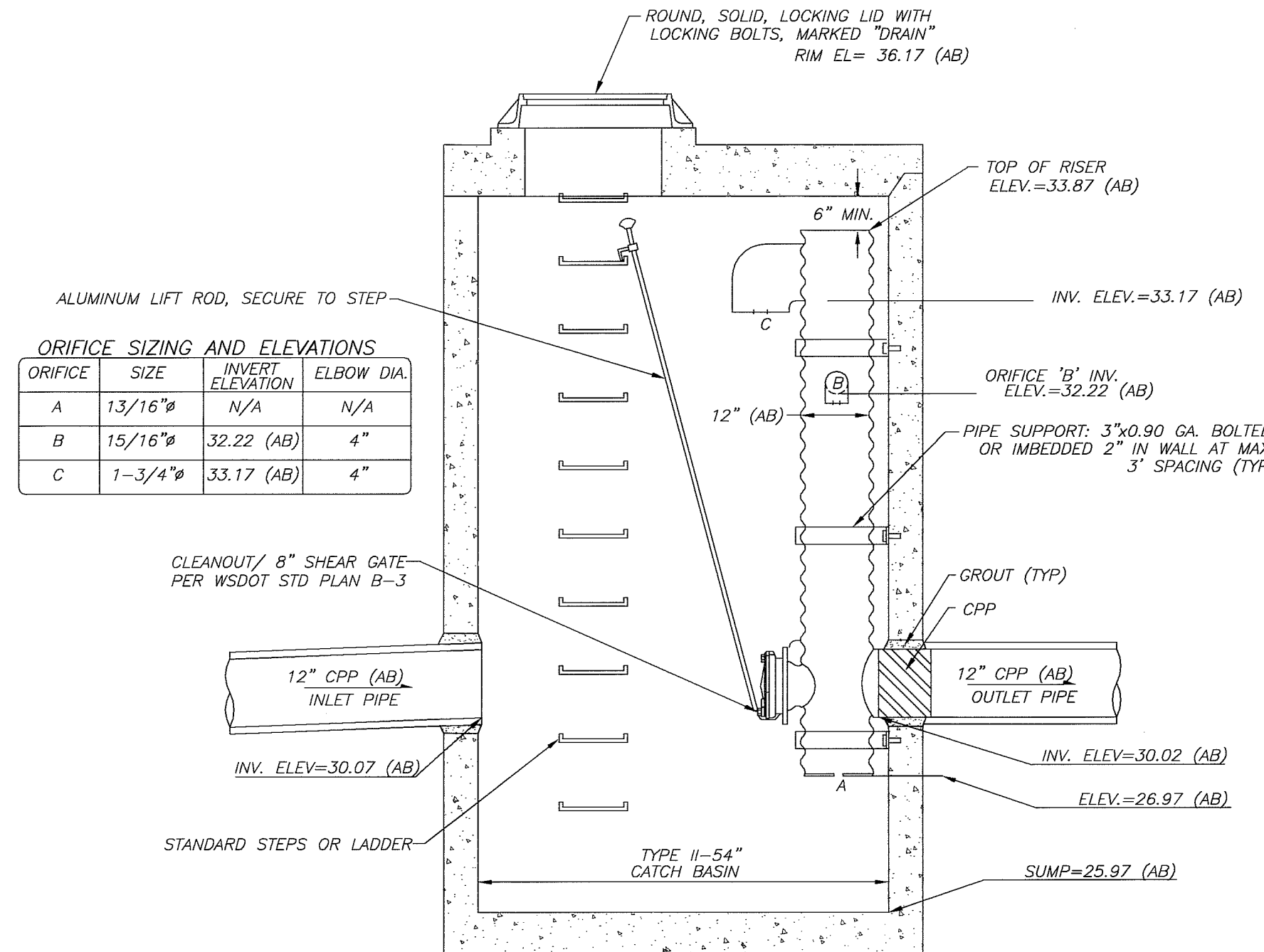
- 1) POND BERM EMBANKMENT SHALL BE CONSTRUCTED ON NATIVE CONSOLIDATED SOIL (OR ADEQUATELY COMPACTED AND STABLE FILL SOILS ANALYZED BY A GEOTECHNICAL ENGINEER) FREE OF LOOSE SURFACE MATERIALS, ROOTS, AND OTHER ORGANIC DEBRIS.
- 2) EMBANKMENT COMPACTION SHALL BE ACCOMPLISHED IN SUCH A MANNER AS TO PRODUCE A DENSE, LOW PERMEABILITY ENGINEERED FILL THAT CAN TOLERATE POST-CONSTRUCTION SETTLEMENTS WITH A MINIMUM OF CRACKING. THE EMBANKMENT FILL SHALL BE PLACED ON A STABLE SUBGRADE AND COMPACTED TO 95% OF THE STANDARD PROCTOR MAXIMUM DENSITY, ASTM PROCEDURE D698. PLACEMENT MOISTURE CONTENT SHALL LIE WITHIN 1% DRY TO 3% WET OF THE OPTIMUM MOISTURE CONTENT.
- 3) THE BERM EMBANKMENT SHALL BE CONSTRUCTED OF SOILS WITH THE FOLLOWING CHARACTERISTICS PER THE UNITED STATES DEPT. OF AGRICULTURE'S TEXTURAL TRIANGLE: A MINIMUM OF 20% SILT AND CLAY, A MAXIMUM OF 60% SAND, A MAXIMUM OF 60% SILT, WITH NOMINAL GRAVEL AND COBBLE CONTENT.



ELBOW RESTRICTOR

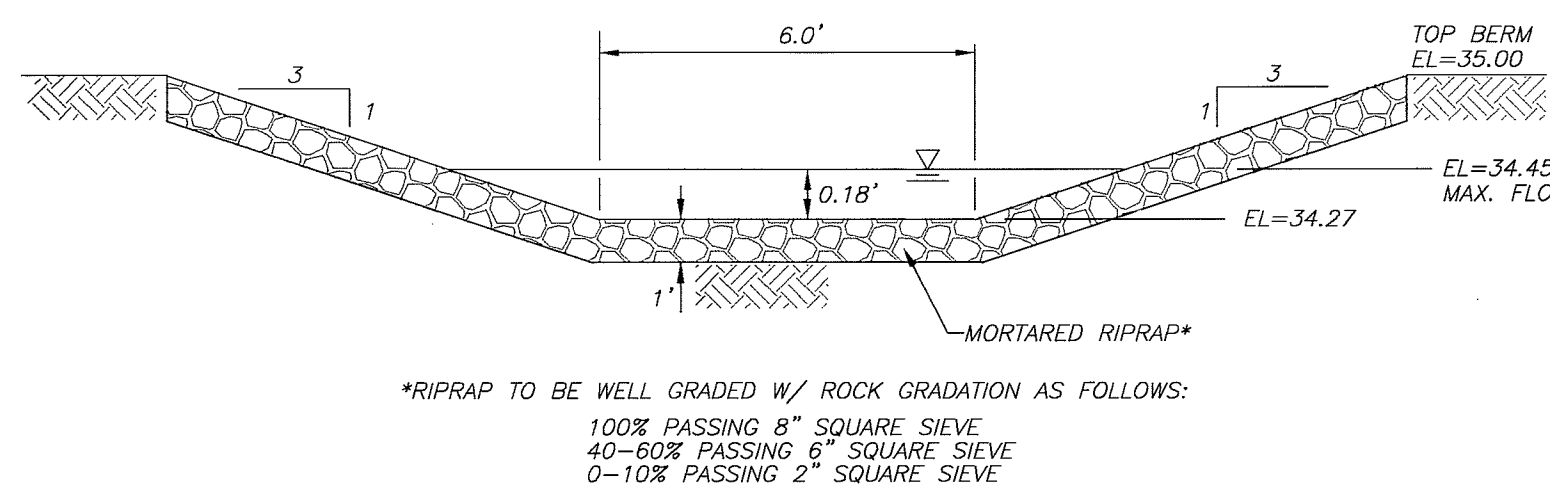
### NOTES:

1. ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE, AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE THREE ELBOWS.
2. PIPE SUPPORT BRACKETS AND THE RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING.
3. ALL METAL PARTS SHALL BE CORROSION RESISTANT. ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED.
4. THE RESTRICTOR/SEPARATOR STANDPIPE SHALL BE FABRICATED FROM 0.060" ALUMINUM, 0.064" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL, IN ACCORDANCE WITH AASHTO M36, M196, M197 AND M274. GALVANIZED STEEL SHALL BE ASPHALT TREATMENT 1 COATED.
5. IF A METAL OUTLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE, THE OUTLET PIPE SHALL HAVE A SMOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4".
6. THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:  
A: THE CLEANOUP GATE IS VISIBLE FROM THE TOP.  
B: THE CLIMB DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEANOUP GATE.  
C: THE FRAME IS CLEAR OF THE CURB. (IF APPLICABLE)

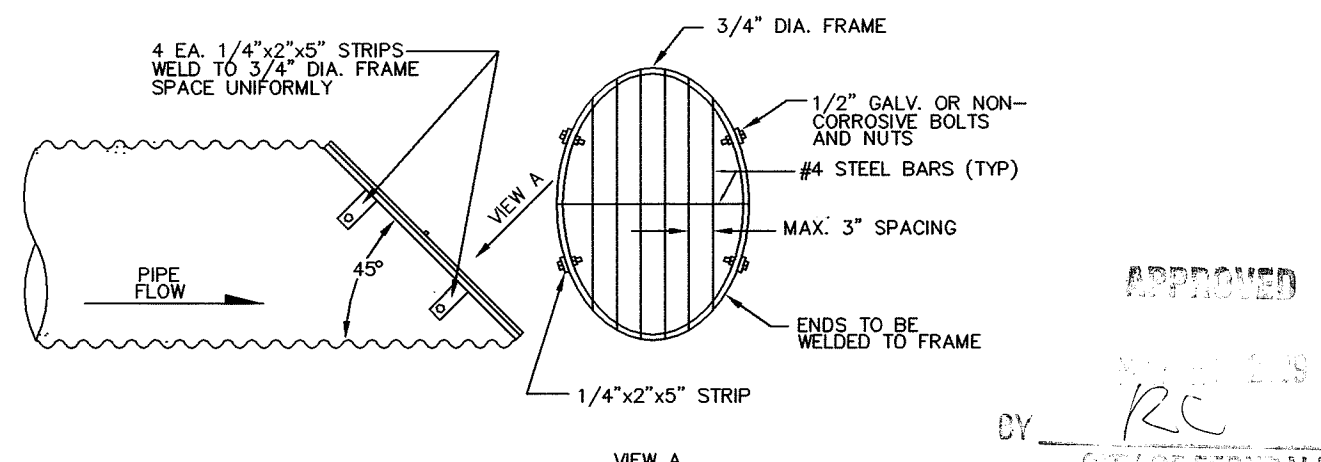


SECTION VIEW

### CONTROL STRUCTURE TYPE II - 54" NOT TO SCALE



### EMERGENCY OVERFLOW SPILLWAY DETAIL NOT TO SCALE



### TRASH RACK FOR SD OUTLET DETAIL NOT TO SCALE

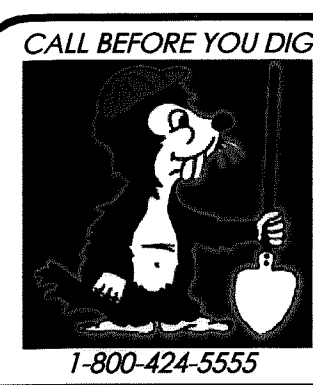
AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"(AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'

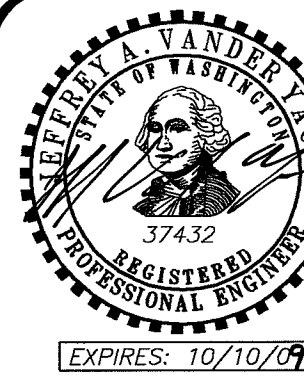
FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVT	VERT: 1" = 4'					2	07/02/07
ASBUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK			REVISIONS			ISSUE			
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



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FERNDAL, WASHINGTON 98248

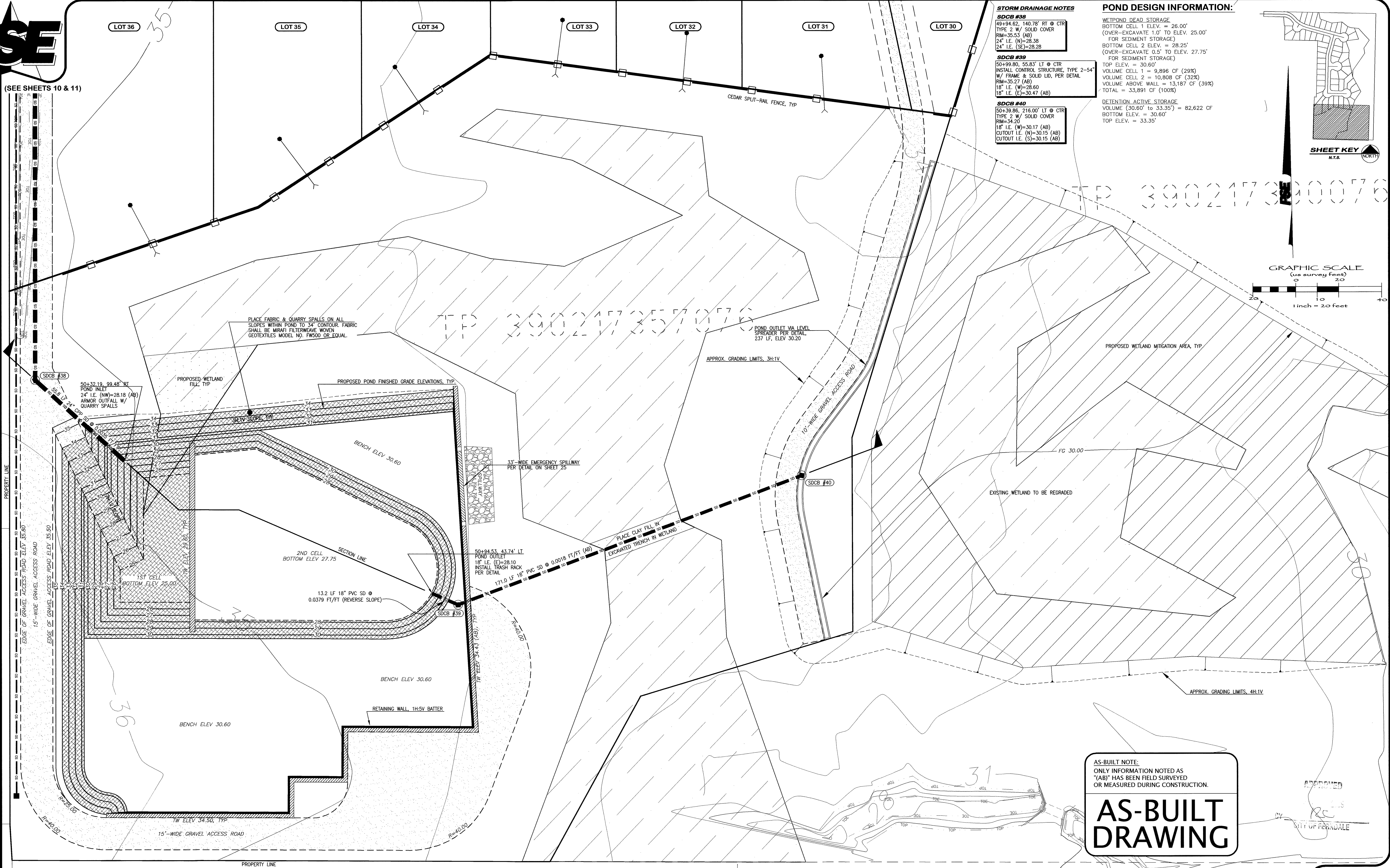
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
STORMWATER MANAGEMENT  
FACILITY DETAILS - NORTH POND

JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 23 OF 34



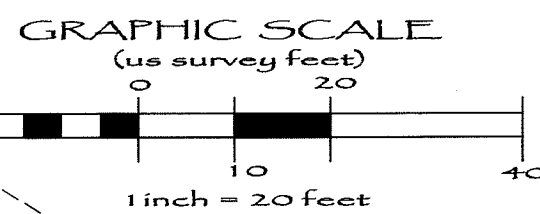
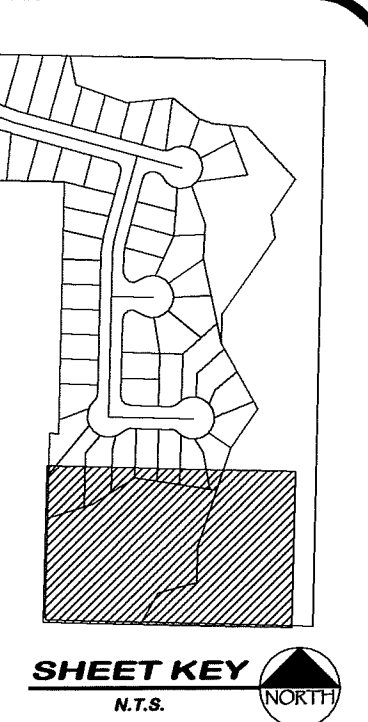


PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com



**STORM DRAINAGE NOTES**  
**SDCB #38**  
49+94.62, 140.78' RT @ CTR  
TYPE 2 W/ SOLID COVER  
RIM=35.53 (AB)  
24" I.E. (N)=28.38  
24" I.E. (S)=28.28  
**SDCB #39**  
50+99.80, 55.83' LT @ CTR  
INSTALL CONTROL STRUCTURE, TYPE 2-54"  
W/ FRAME & SOLID LID, PER DETAIL  
RIM=35.27 (AB)  
18" I.E. (W)=28.60  
18" I.E. (E)=30.47 (AB)  
**SDCB #40**  
50+39.86, 216.00' LT @ CTR  
TYPE 2 W/ SOLID COVER  
RIM=34.20  
18" I.E. (W)=30.17 (AB)  
CUTOUT I.E. (N)=30.15 (AB)  
CUTOUT I.E. (S)=30.15 (AB)

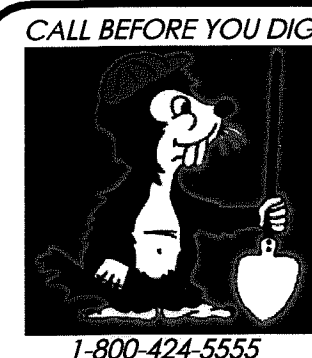
**POND DESIGN INFORMATION:**  
WETPOND DEAD STORAGE  
BOTTOM CELL 1 ELEV. = 26.00'  
(OVER-EXCAVATE 1.0' TO ELEV. 25.00'  
FOR SEDIMENT STORAGE)  
BOTTOM CELL 2 ELEV. = 28.25'  
(OVER-EXCAVATE 0.5' TO ELEV. 27.75'  
FOR SEDIMENT STORAGE)  
TOP ELEV. = 30.60'  
VOLUME CELL 1 = 9,896 CF (29%)  
VOLUME CELL 2 = 10,808 CF (32%)  
VOLUME ABOVE WALL = 13,187 CF (39%)  
TOTAL = 33,891 CF (100%)  
DETENTION ACTIVE STORAGE  
VOLUME (30.60' to 33.35') = 82,622 CF  
BOTTOM ELEV. = 30.60'  
TOP ELEV. = 33.35'



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
'(AB)' HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

**AS-BUILT  
DRAWING**

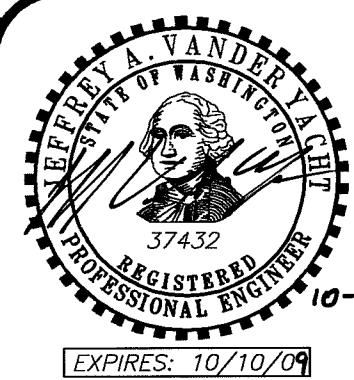
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DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK				REVISIONS				ISSUE	



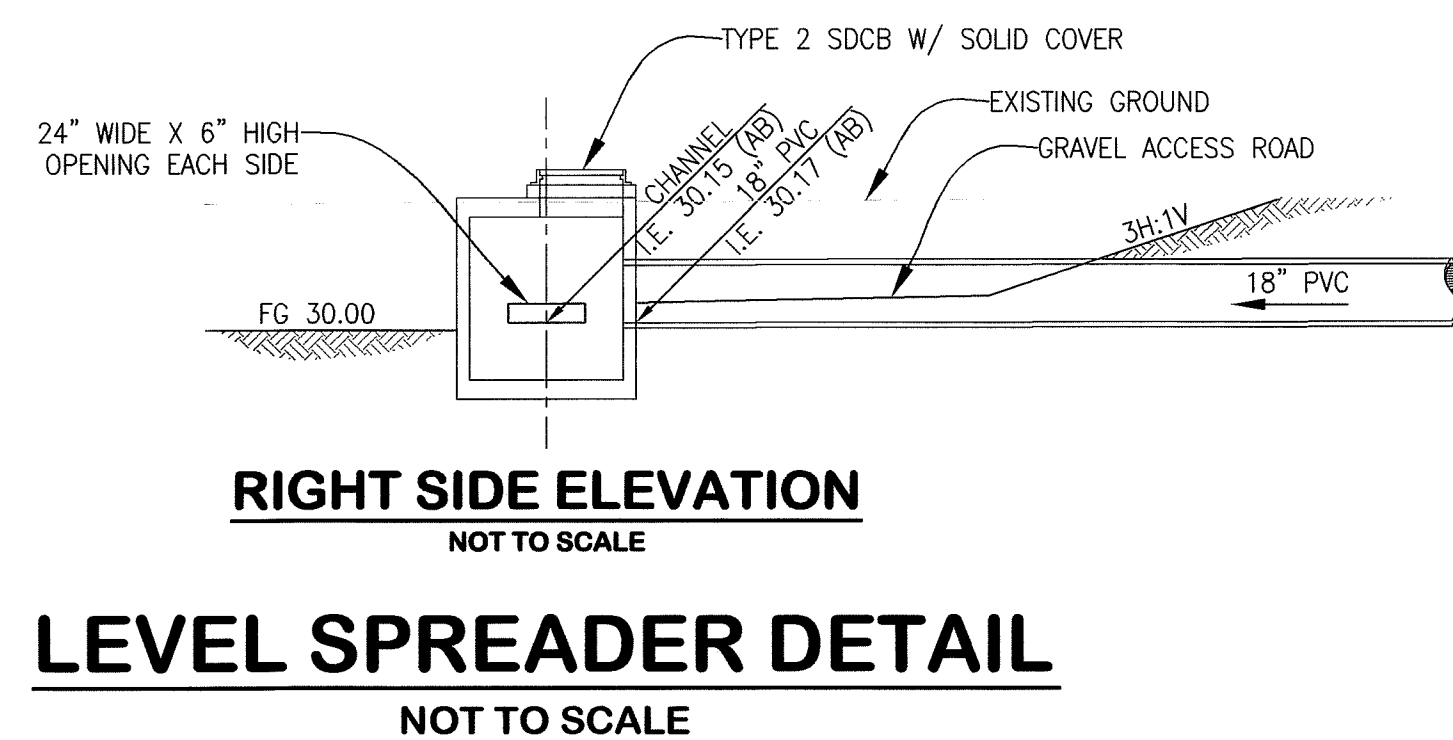
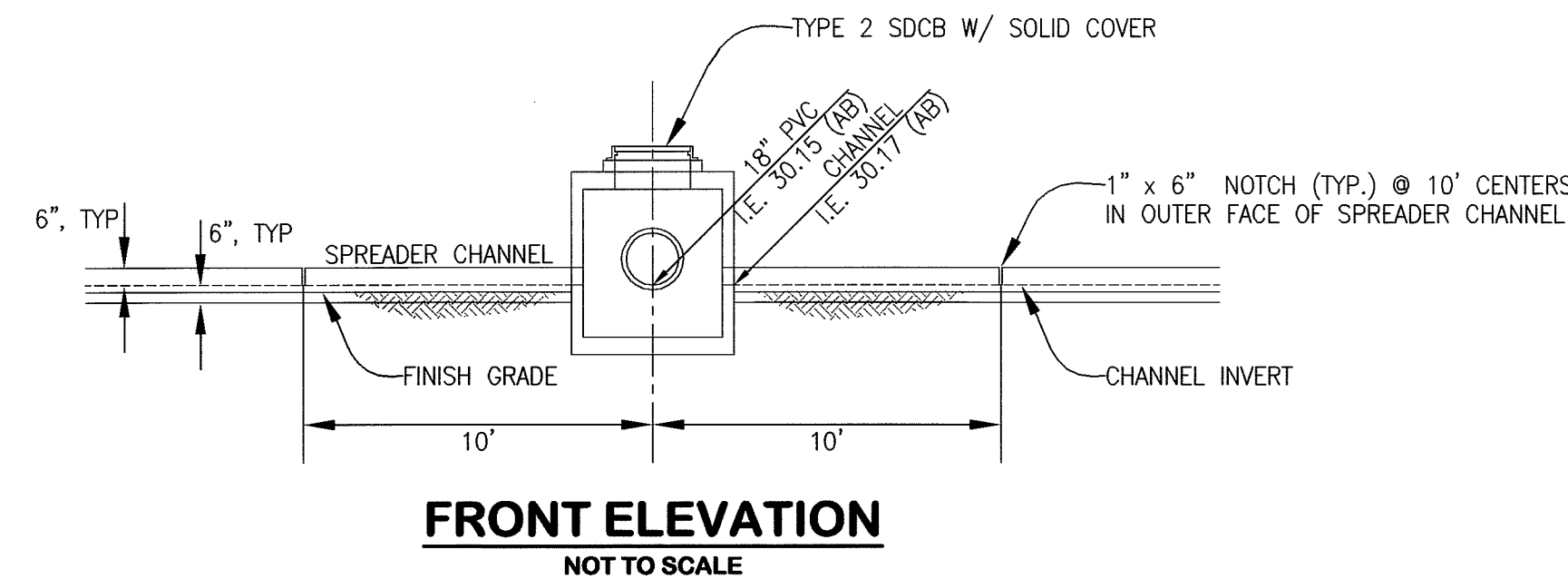
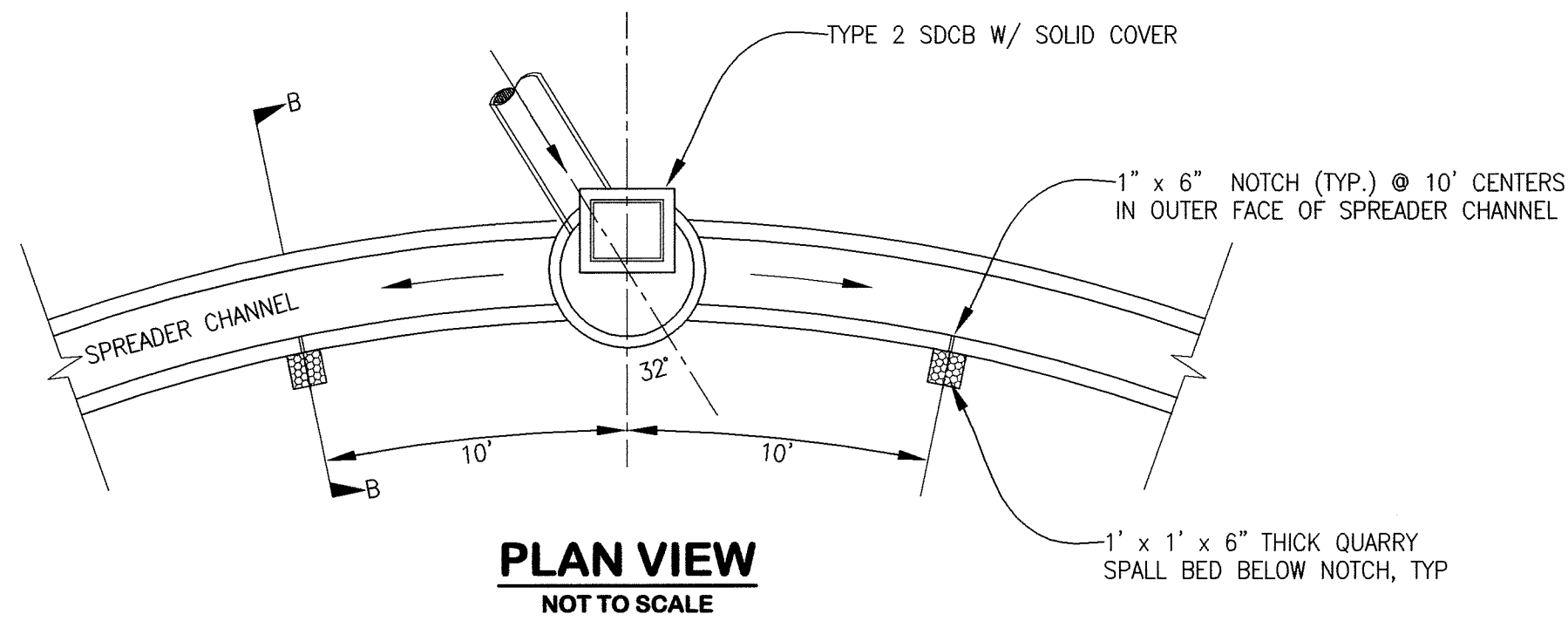
CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
STORMWATER MANAGEMENT  
FACILITY DETAILS ~ SOUTH POND

JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 24 OF 34

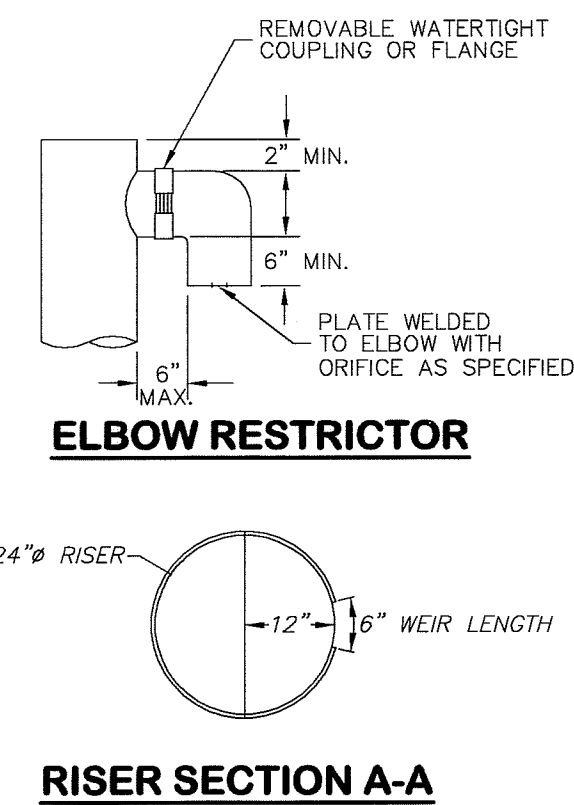
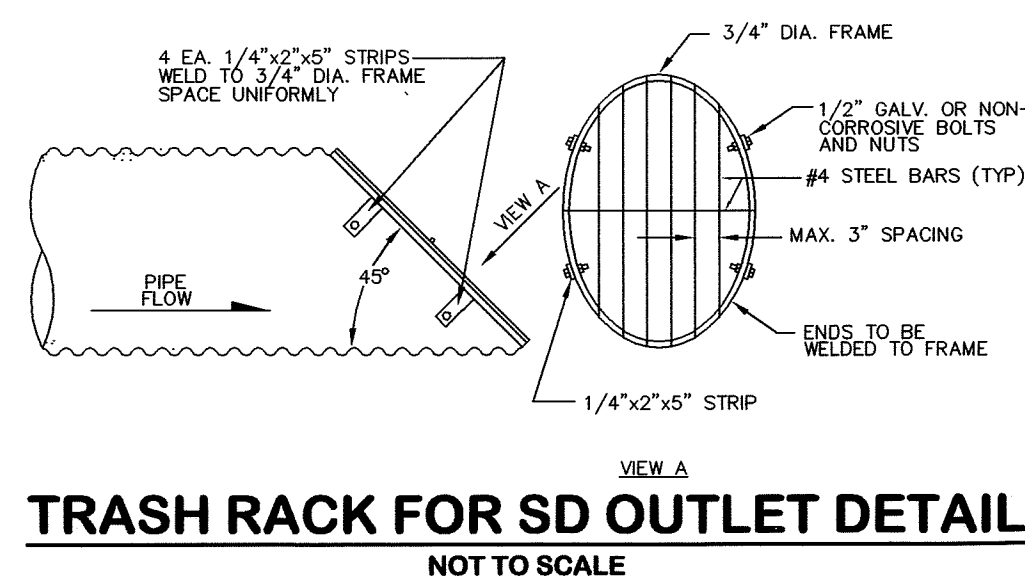
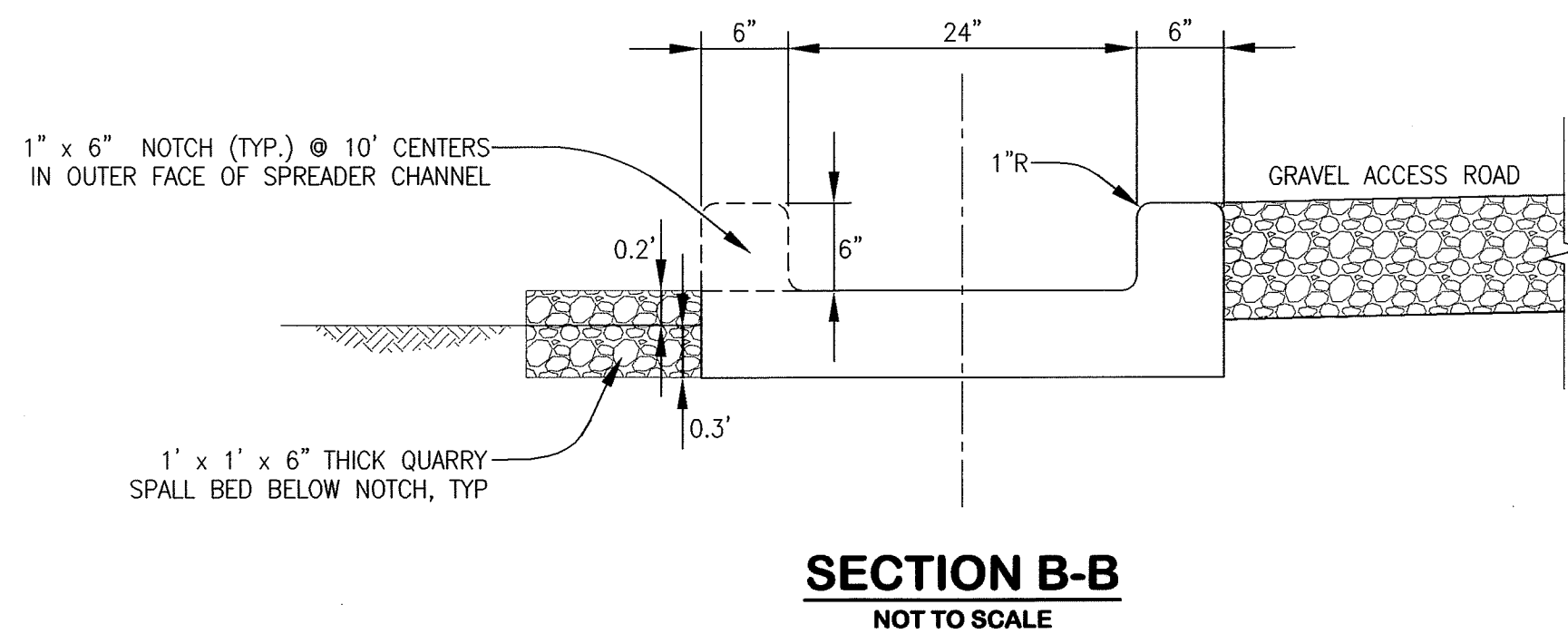


EXPIRES: 10/10/09



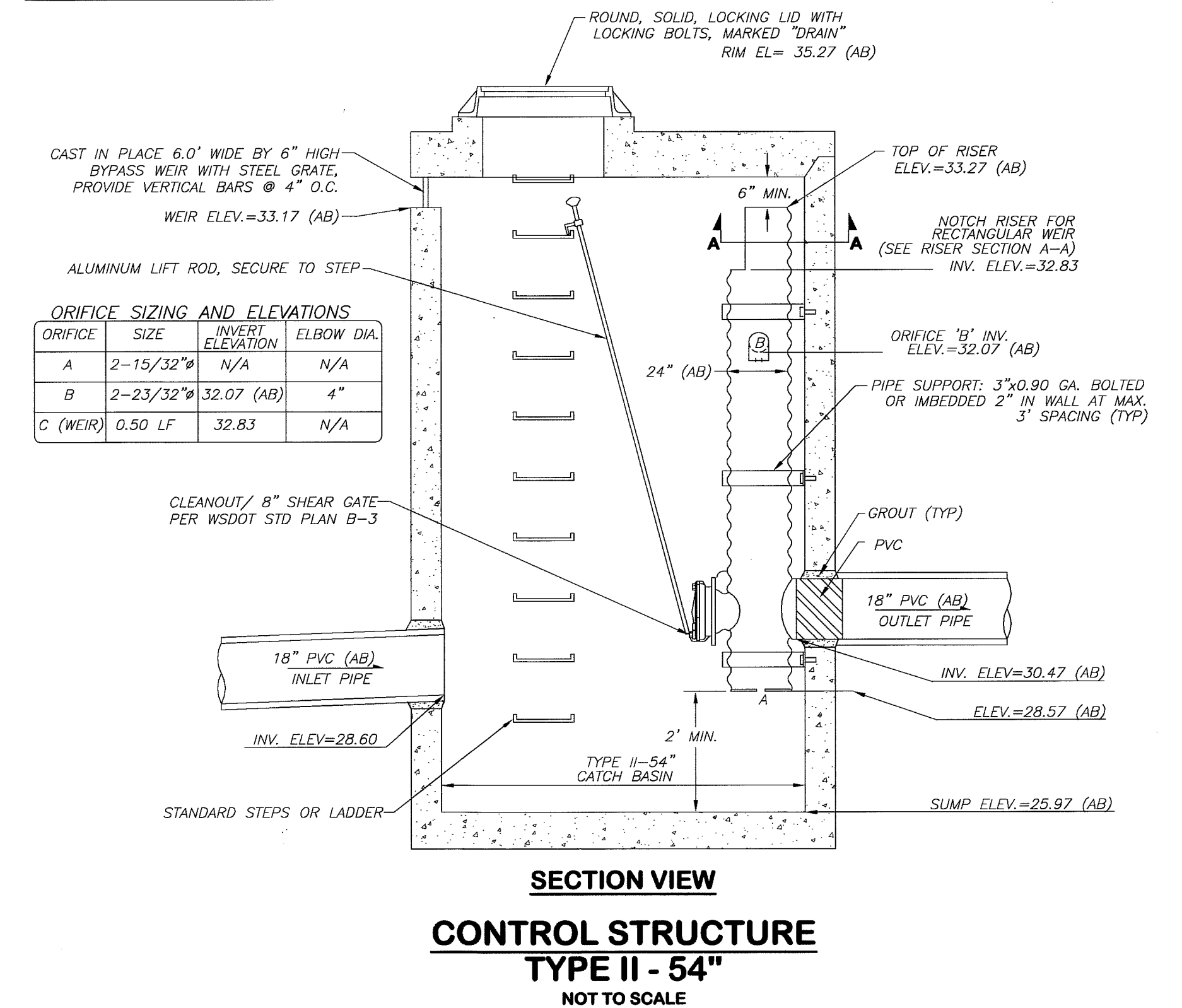
NOTES:

- 1) 3/8" EXPANSION MATERIAL THRU JOINTS SHALL BE PLACED AT 90° TO FACE OF LEVEL SPREADER AND NO MORE THAN 15 FT. APART.
- 2) FORM AND SUBGRADE INSPECTION REQUIRED BEFORE POURING CONCRETE.
- 3) CONCRETE SHALL BE AIR ENTRAINED TYPE II PORTLAND CEMENT CLASS 3000.
- 4) ALL EDGES AND JOINTS SHALL BE FINISHED AND EXPOSED CORNERS ROUNDED TO 1" RADIUS.



NOTES:

1. ALL ORIFICES TO BE FABRICATED BY SHOP DRILLING HOLES OF APPROPRIATE DIAMETER IN METAL PLATE, AND WELDING IT INTO PLACE AT THE BOTTOM OF THE MAIN RISER AND THE THREE ELBOWS.
2. PIPE SUPPORT BRACKETS AND THE RESTRICTOR/SEPARATOR SHALL BE OF THE SAME MATERIAL, AND BE ANCHORED AT 3' MAXIMUM SPACING.
3. ALL METAL PARTS SHALL BE CORROSION RESISTANT. ALL GALVANIZED STEEL PARTS SHALL BE ASPHALT TREATMENT 1 COATED.
4. THE RESTRICTOR/SEPARATOR STANDPIPE SHALL BE FABRICATED FROM 0.060" ALUMINUM, 0.064" ALUMINIZED STEEL, OR 0.064" GALVANIZED STEEL, IN ACCORDANCE WITH AASHTO M38, M196, M197 AND M274. GALVANIZED STEEL SHALL BE ASPHALT TREATMENT 1 COATED.
5. IF A METAL OUTLET PIPE CONNECTS TO A CEMENT CONCRETE PIPE, THE OUTLET PIPE SHALL HAVE A SMOOTH OUTSIDE DIAMETER EQUAL TO THE INSIDE DIAMETER OF THE CONCRETE PIPE LESS 1/4".
6. THE FRAME AND LADDER (OR STEPS) SHALL OFFSET SO THAT:  
A: THE CLEANOUT GATE IS VISIBLE FROM THE TOP.  
B: THE CLIMB DOWN CLEAR SPACE OF 2 FEET IS BETWEEN THE RISER AND CLEANOUT GATE.  
C: THE FRAME IS CLEAR OF THE CURB. (IF APPLICABLE)



EMERGENCY OVERFLOW SPILLWAY DETAIL  
NOT TO SCALE

AS-BUILT NOTE:

ONLY INFORMATION NOTED AS  
(AB) HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING

APPROVED  
CY  
CITY OF FERDALE

HORIZONTAL SCALE: 1" = 20'

VERTICAL SCALE: 1" = 4'

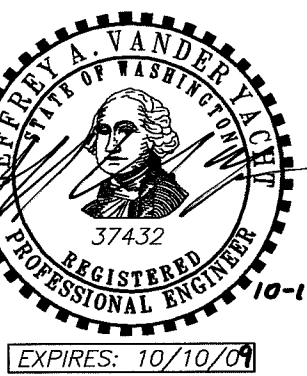
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DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 20'					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: 1" = 4'					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
SURVEY REFERENCE				PLAN CHECK				REVISIONS				ISSUE	
VERTICAL DATUM				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									



CROWN POINT  
HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

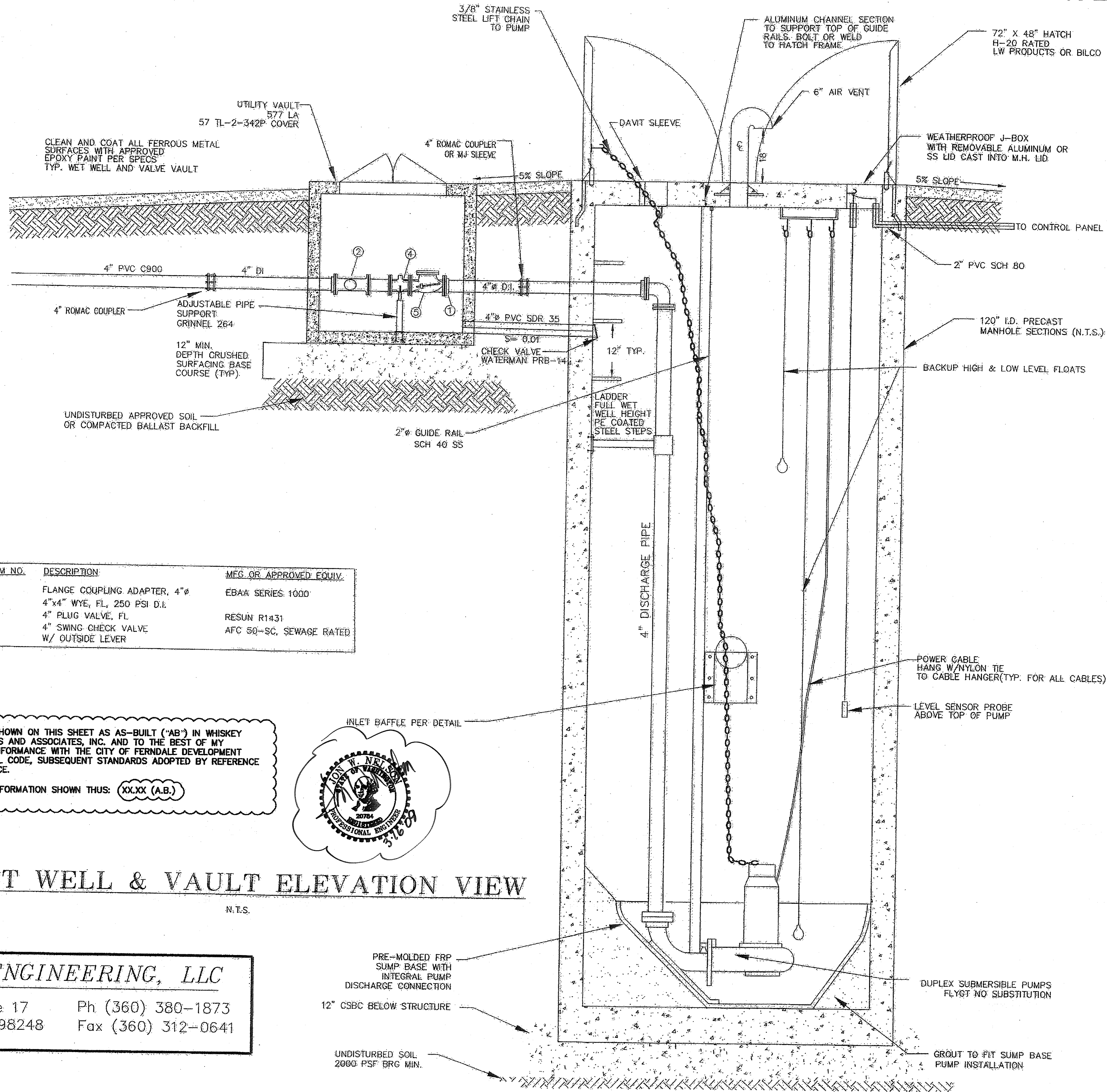
WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
STORMWATER MANAGEMENT  
FACILITY DETAILS ~ SOUTH POND

JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 25 OF 34





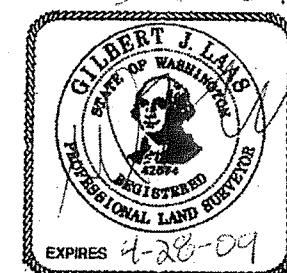
# SANITARY SEWER LIFT STATION DETAILS



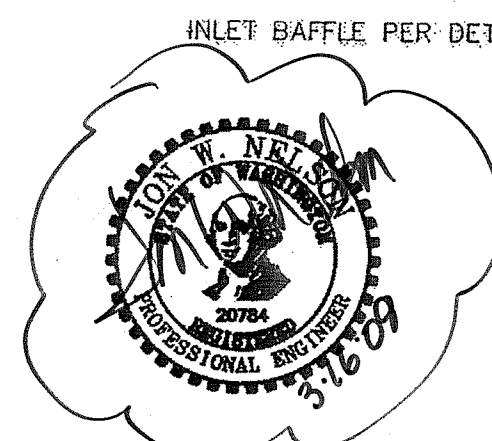
ITEM NO.	DESCRIPTION	MEQ OR APPROVED EQUIV.
1	FLANGE COUPLING ADAPTER, 4"	EBAA SERIES 1000
2	4"x4" WYE, FL, 250 PSI D.I.	
4	4" PLUG VALVE, FL	RESUN R1431
5	4" SWING-CHECK VALVE W/ OUTSIDE LEVER	AFC 5Q-SC, SEWAGE RATED

LEGEND (OR NOTES):  
1. (XX.XX (A.B.)) DENOTES INFORMATION ADDED BY DAVID EVANS & ASSOCIATES (425) 619-6300  
2. A.B. = ASBUILT

I CERTIFY THAT THE LOCATIONS, ELEVATIONS, DEPTHS AND AS-BUILT COMMENTS SHOWN ON THIS SHEET AS AS-BUILT ("AB") REFLECTING MATERIALS ACTUALLY USED DURING CONSTRUCTION ACCURATELY REFLECT EXISTING FIELD CONDITIONS AS DETERMINED BY ME OR UNDER MY DIRECT SUPERVISION ON THIS DATE: MARCH 3, 2009.  
THIS PROFESSIONAL SEAL ONLY APPLIES TO INFORMATION SHOWN THUS: (XX.XX (A.B.))



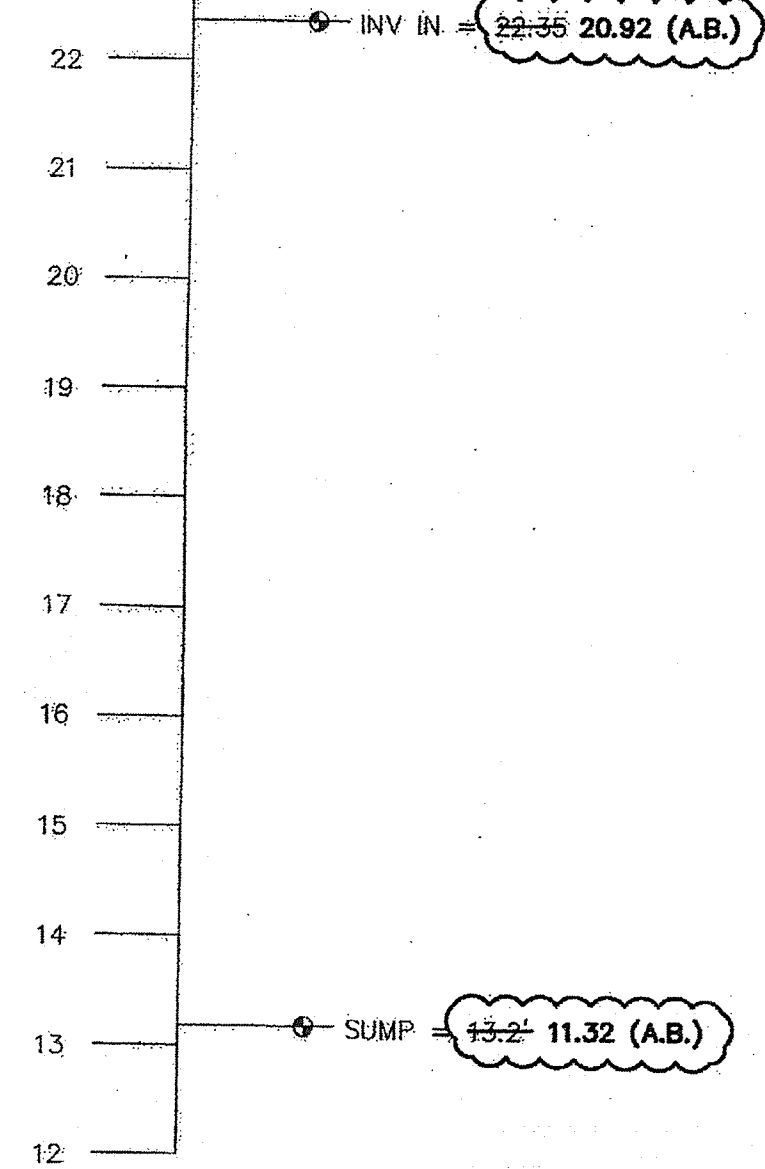
I HEREBY CERTIFY THAT THE IMPROVEMENTS SHOWN ON THIS SHEET AS AS-BUILT ("AB") IN WHISKEY CREEK HAVE BEEN INSPECTED BY DAVID EVANS AND ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERNDALE DEVELOPMENT STANDARDS, THE CITY OF FERNDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.  
THIS PROFESSIONAL SEAL ONLY APPLIES TO INFORMATION SHOWN THUS: (XX.XX (A.B.))



## WET WELL & VAULT ELEVATION VIEW

N.T.S.

TELEGRAPH ENGINEERING, LLC  
1920 Main Street, Suite 17 Ph (360) 380-1873  
Ferndale, Washington 98248 Fax (360) 312-0641



APPROVED  
JUN 29 2006  
BY [Signature]  
CITY OF FERNDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE			HORIZ: N.A.					1	ISSUED FOR REVIEW 05/21/06
STAKING:				DESIGN			VERT: N.A.					2	ISSUED FOR REVIEW 06/12/06
ASBUILT:				XREF:								3	ISSUED FOR REVIEW 06/26/06
SURVEY REFERENCE		VERTICAL DATUM		DWG:									
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								REVISIONS					ISSUE

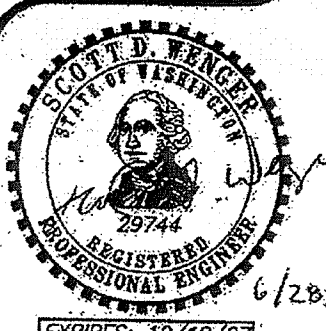


CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

## WHISKEY CREEK PLAT ROADWAY & UTILITY IMPROVEMENT PLANS SANITARY SEWER LIFT STATION DETAILS

JOB #: 2005054

SHEET 26 OF 34

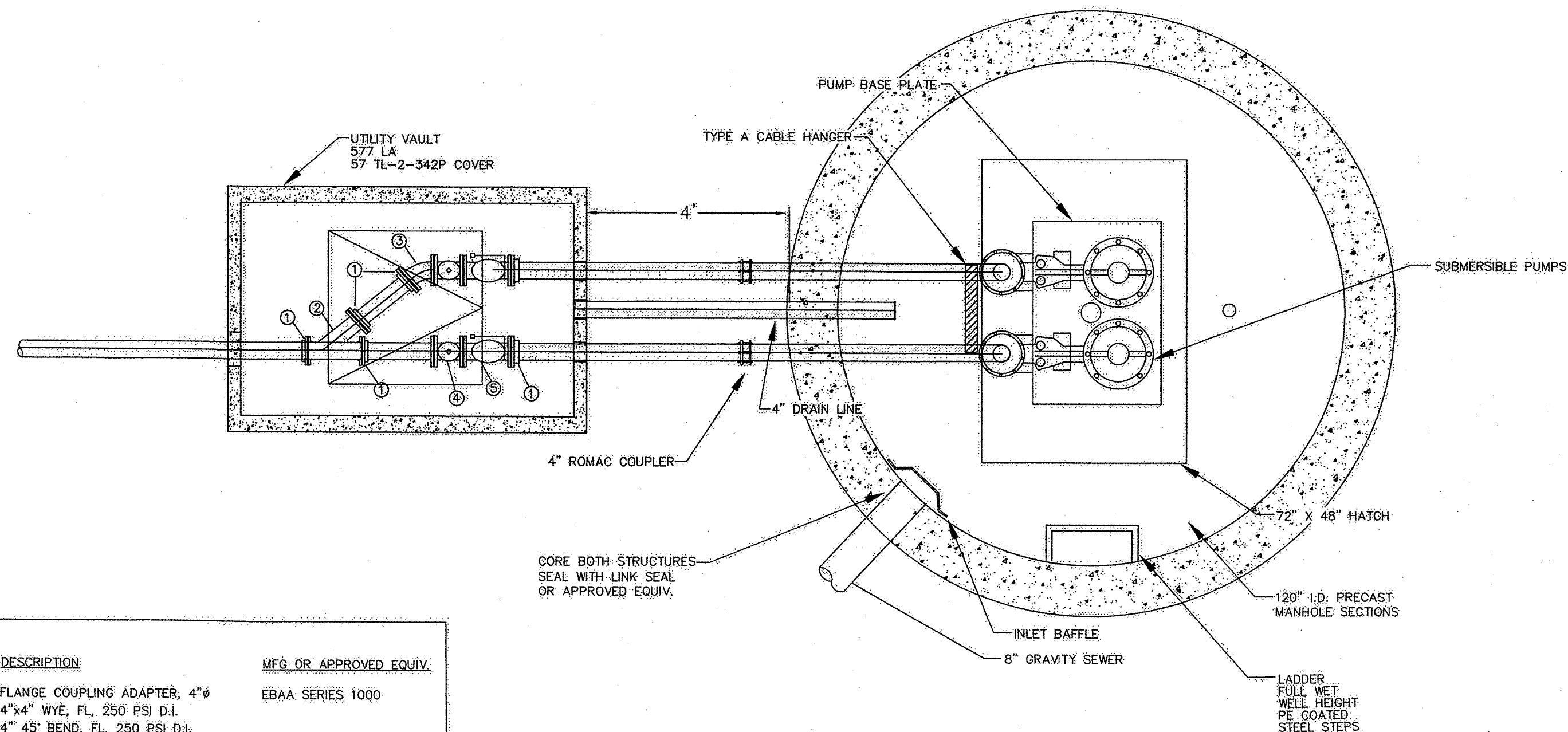




www.psesurvey.com  
EMAIL: pse@psurvey.com

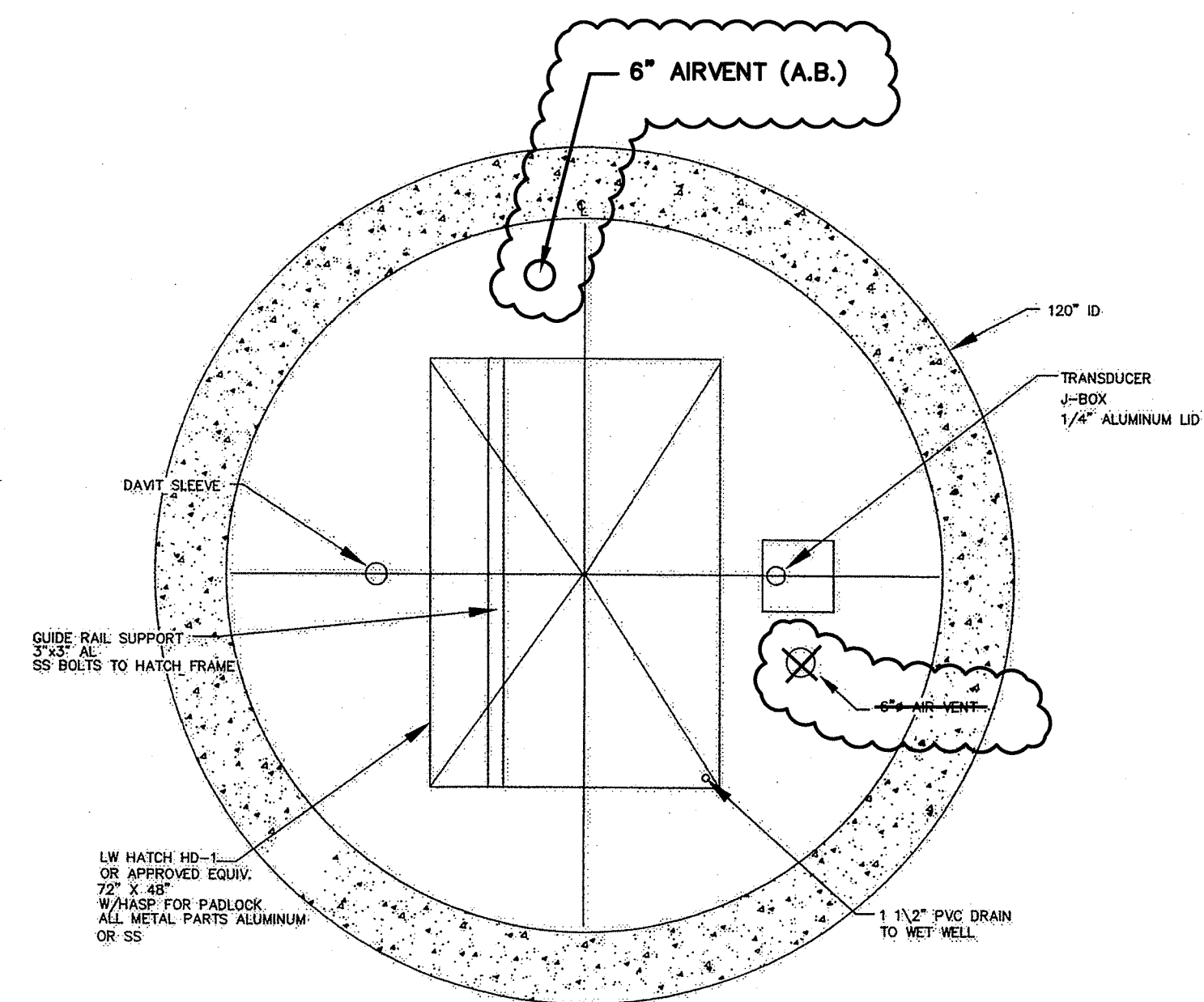
PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685

# SANITARY SEWER LIFT STATION DETAILS



ITEM NO.	DESCRIPTION	MEQ OR APPROVED EQUIV.
1.	FLANGE COUPLING ADAPTER, 4"Ø	EBAA SERIES 1000
2.	4"x4" WYE, FL. 250 PSI D.I.	
3.	4" 45° BEND, FL. 250 PSI D.I.	
4.	4" PLUG VALVE, FL.	RESUN R1431
5.	4" SWING CHECK VALVE W/OUTSIDE LEVER & WEIGHT	AFC 50-SC, SEWAGE RATED

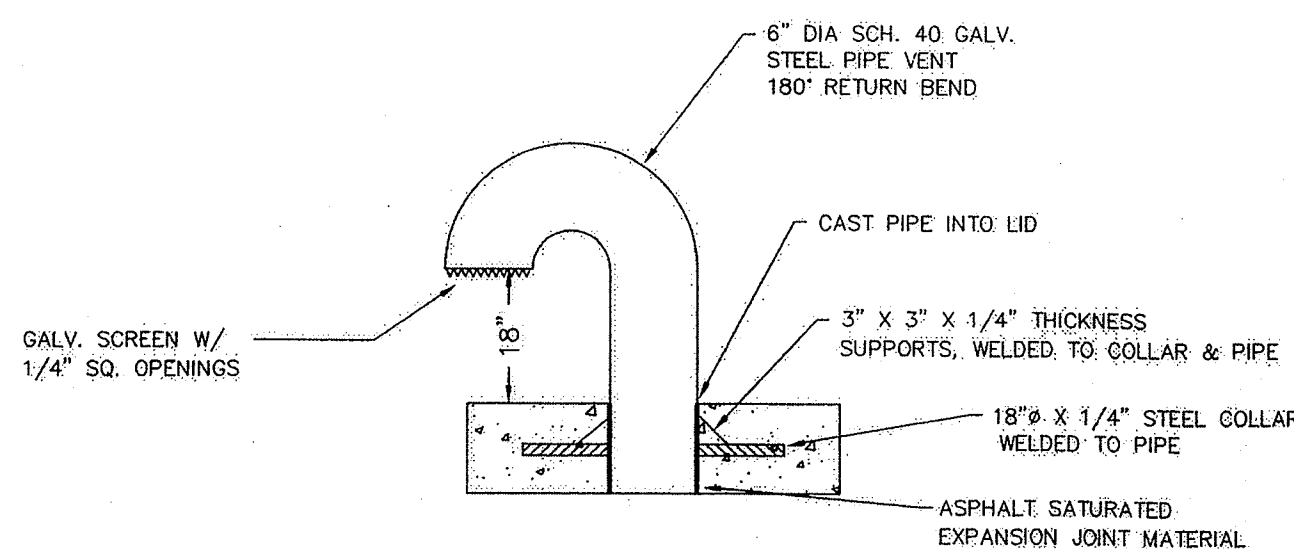
WET WELL AND VALVE VAULT PLAN VIEW



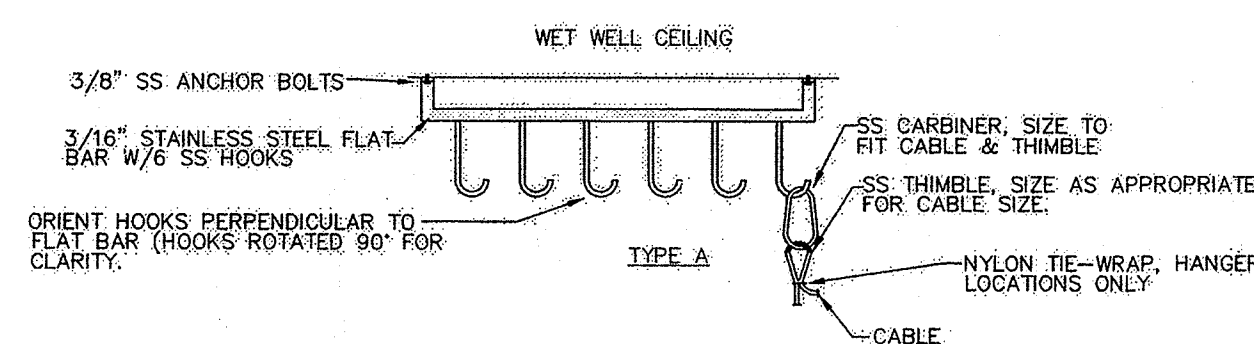
WET WELL LID DETAIL

## LEGEND (OR NOTES.)

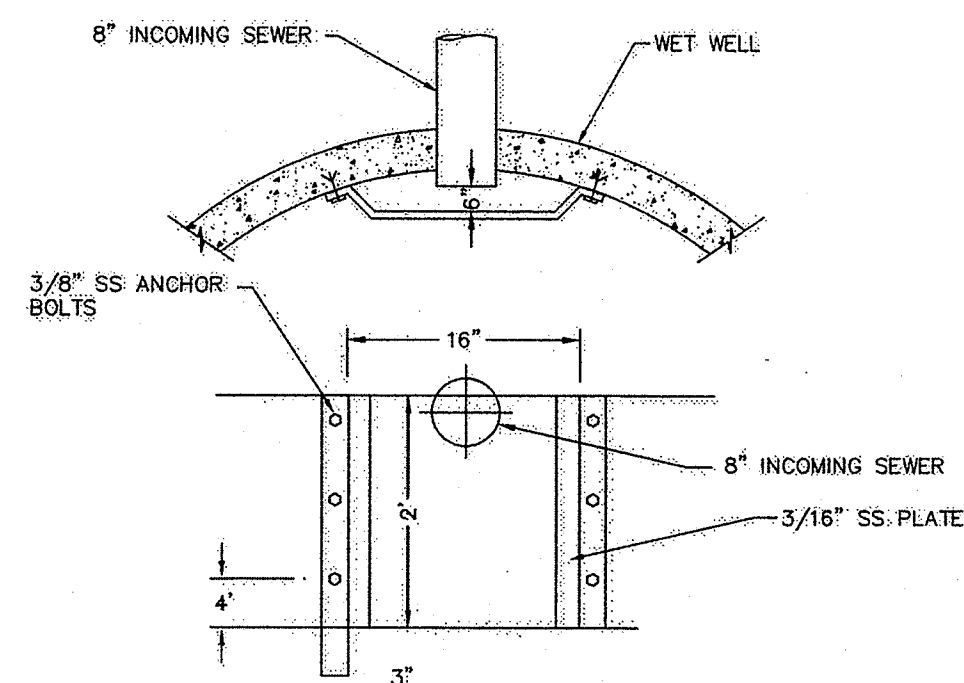
1. XX.XX (A.B.) DENOTES INFORMATION ADDED BY DAVID EVANS & ASSOCIATES (425) 619-6500
2. A.B. = ASBUILT



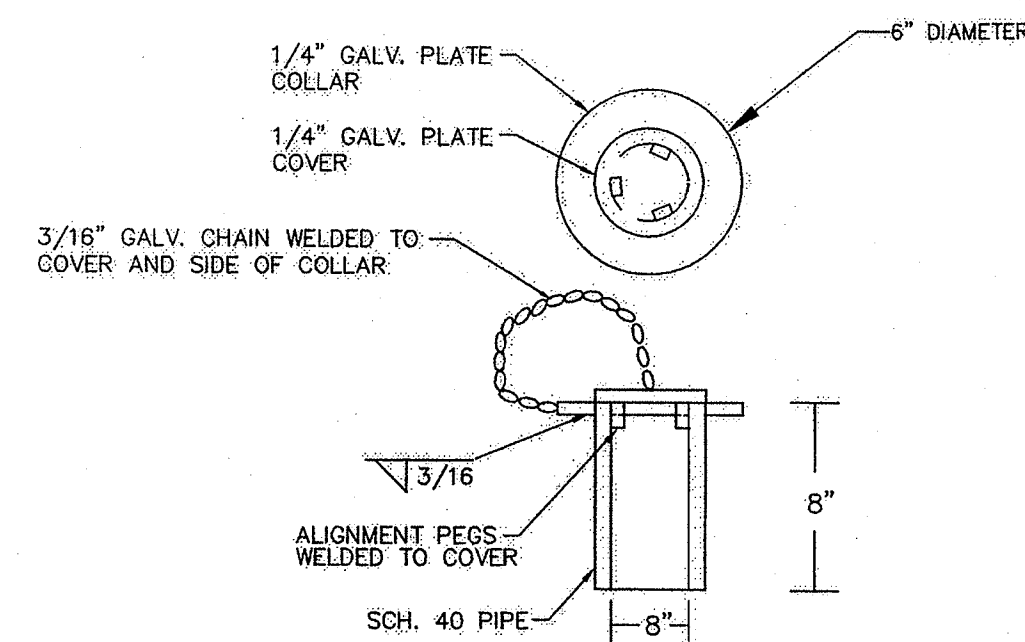
AIR INTAKE/EXHAUST VENT



TYPE A CABLE HANGER



INLET BAFFLE



DAVIT SLEEVE

I HEREBY CERTIFY THAT THE IMPROVEMENTS SHOWN ON THIS SHEET AS AS-BUILT ('AB') IN WHISKEY CREEK HAVE BEEN INSPECTED BY DAVID EVANS AND ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

THIS PROFESSIONAL SEAL ONLY APPLIES TO INFORMATION SHOWN THUS: XX.XX (A.B.)

## TELEGRAPH ENGINEERING, LLC

1920 Main Street, Suite 17 Ph (360) 380-1873  
Ferndale, Washington 98248 Fax (360) 312-0641

APPROVED

JUN 29 2006

BY *RC*  
CITY OF FERDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE			HORIZ: N.A.					1	ISSUED FOR REVIEW 03/21/06
STAKING:				DESIGN			VERT: N.A.					2	ISSUED FOR REVIEW 06/12/06
ASBUILT:				XREF:								3	ISSUED FOR REVIEW 06/28/06
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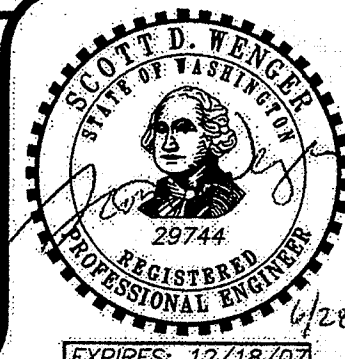


CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
SANITARY SEWER LIFT  
STATION DETAILS

JOB #: 2005054

SHEET 27 OF 34





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EMAIL: pse@psurvey.com

PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685

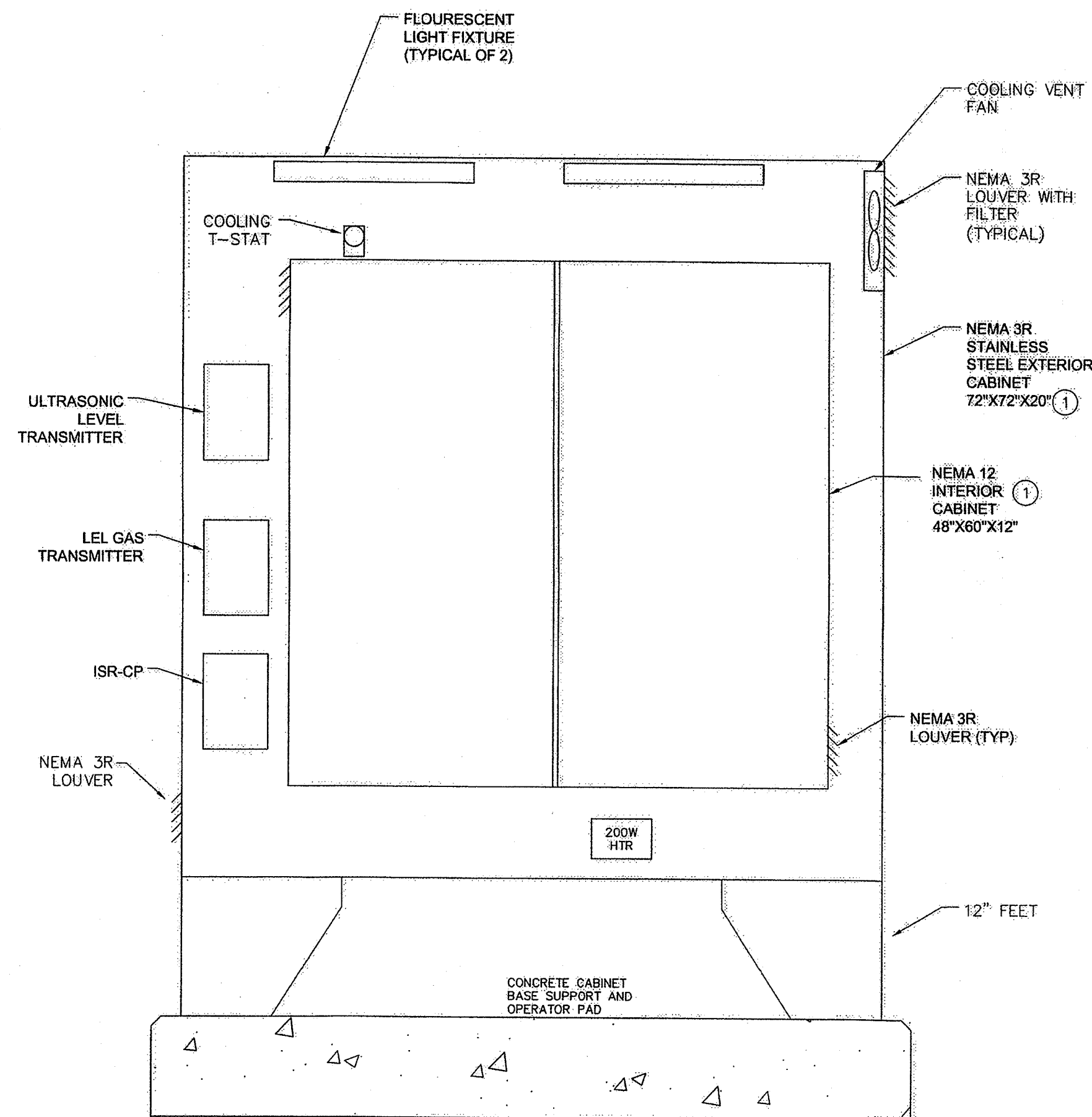
# SANITARY SEWER LIFT STATION DETAILS

## KEY NOTES:

- CABINET SIZES SHOWN ARE THE EXPECTED SIZE FOR EQUIPMENT INSTALLED - CONTRACTOR SHALL UPSIZE OR DOWN SIZE IF NECESSARY FOR SPACE REQUIRED IF FIRST APPROVED BY THE ENGINEER.
- 7'X7' PRECAST CONCRETE BUILDING BY BODE'S PRECAST MAY BE USED TO ENCLOSE ELECTRICAL WITH CORRESPONDING CHANGES IN ENCLOSURE RATINGS. APPROVAL FROM THE CITY IS REQUIRED.
- PROVIDE TWO INCANDESCENT FLOOD LIGHTS, ALUMINUM DECAST HOUSING WITH SHIELD, 150W LAMP, STANCO CO. MODEL 40L OR EQUAL. POINT LIGHTS AT MET WELL. ONE PROVIDED

## GENERAL NOTES:

- LAYOUT IS GENERAL - CONTRACTOR SHALL ADJUST AS REQUIRED FOR PROPER EQUIPMENT INSTALLATION AND TO MEET NEC REQUIREMENTS.
- ALL EQUIPMENT AND INSTALLATIONS SHALL BE RATED FOR OUTDOOR, WET LOCATION - PROVIDE NEMA 3R OR 4-RATED ENCLOSURES.
- REFER TO ELECTRICAL SUBMITTAL FOR ACTUAL LOCATIONS



POWER & CONTROL PANEL ELEVATION

### LEGEND (OR NOTES:)

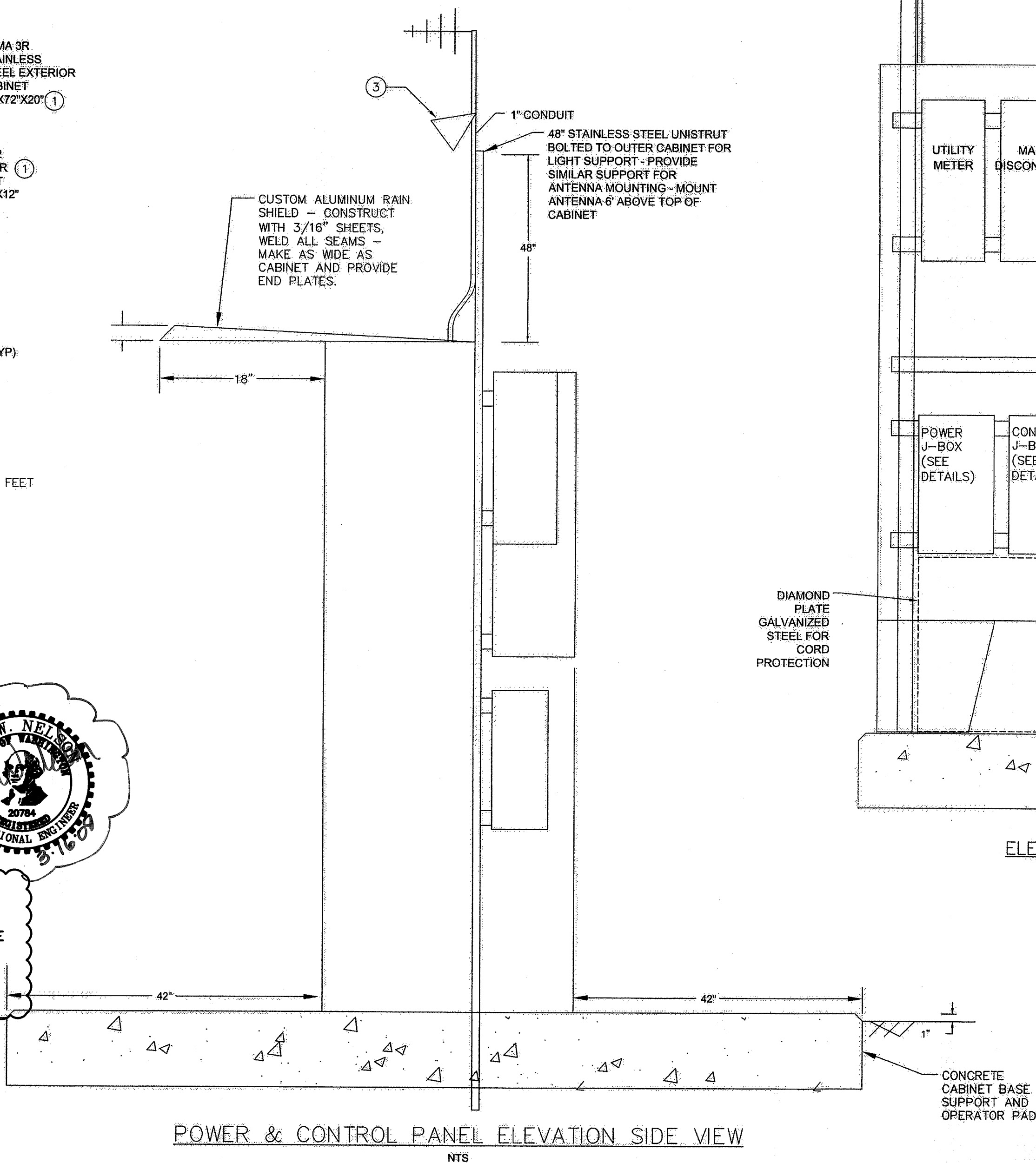
- XX.XX (A.B.) DENOTES INFORMATION ADDED BY DAVID EVANS & ASSOCIATES (425) 619-6500
- A.B. = ASBUILT



I HEREBY CERTIFY THAT THE IMPROVEMENTS SHOWN ON THIS SHEET AS AS-BUILT ("AB") IN WHISKEY CREEK HAVE BEEN INSPECTED BY DAVID EVANS AND ASSOCIATES, INC. AND TO THE BEST OF MY KNOWLEDGE, HAVE BEEN CONSTRUCTED IN CONFORMANCE WITH THE CITY OF FERDALE DEVELOPMENT STANDARDS, THE CITY OF FERDALE MUNICIPAL CODE, SUBSEQUENT STANDARDS ADOPTED BY REFERENCE THEREIN, AND STANDARD ENGINEERING PRACTICE.

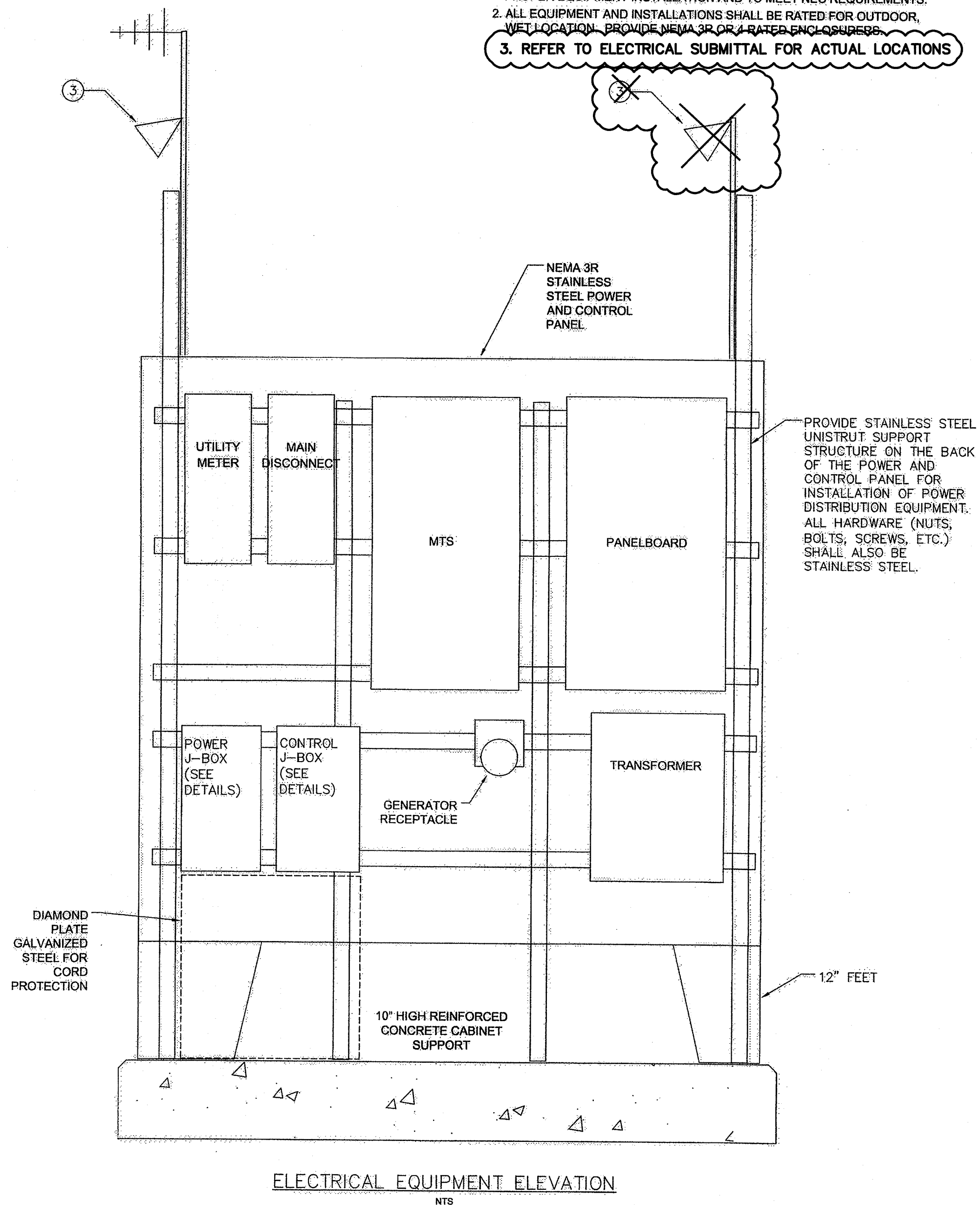
THIS PROFESSIONAL SEAL ONLY APPLIES TO INFORMATION SHOWN THIS: XX.XX (A.B.)

**FOLLETT ENGINEERING**  
ELECTRICAL  
ENGINEERING  
&  
CONSULTING  
REDMOND, WA  
425-836-3333



POWER & CONTROL PANEL ELEVATION SIDE VIEW

SEE ADDITIONAL ELECTRICAL DRAWINGS IN THE SPECIFICATIONS

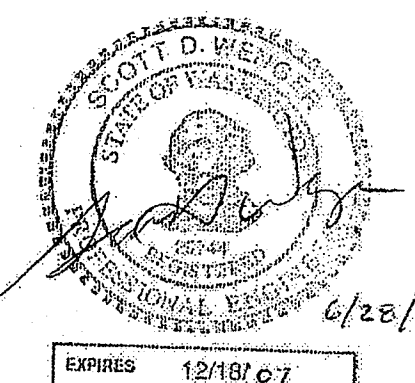


ELECTRICAL EQUIPMENT ELEVATION

APPROVED

JUN 29 2006

BY RC  
CITY OF FERDALE



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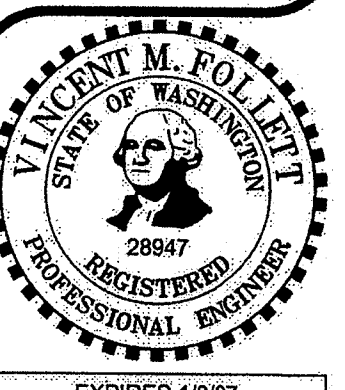
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CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**SANITARY SEWER LIFT  
STATION DETAILS**

JOB #: 2005054

SHEET 28 OF 34



00390.028 7/10/09 DD



PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE:671.7387 FAX:671.4685

www.psesurvey.com  
EMAIL: pse@psurvey.com

### EROSION CONTROL NOTES

- 1) COVER ALL DIRT/GRAVEL PILES WITH PLASTIC SHEETING DURING CONSTRUCTION WHEN NOT IN USE.
- 2) NATIVE SOILS AREA CLASSIFIED AS "TROMP LOAM" HYDROLOGIC GROUP C AND "EDMONDS-WOODLYN" HYDROLOGIC GROUP D PER "SOIL SURVEY OF WHATCOM COUNTY," SCS 1992.
- 3) CONSTRUCTION SCHEDULE- PENDING APPROVAL OF PLANS FROM CITY OF FERNDALE, BEGINNING SPRING 2006.
- 4) INLET PROTECTION SHALL BE PROVIDED FOR ALL NEW DRAINAGE STRUCTURES IN ADDITION TO WHERE INDICATED ON PLANS.
- 5) SILT FENCING SHALL BE INSTALLED ALONG PROJECT BOUNDARY IN ADDITION TO WHERE INDICATED ON PLANS.
- 6) SEE SHEET 30 FOR ADDITIONAL EROSION CONTROL NOTES & DETAILS.

### EROSION CONTROL LEGEND

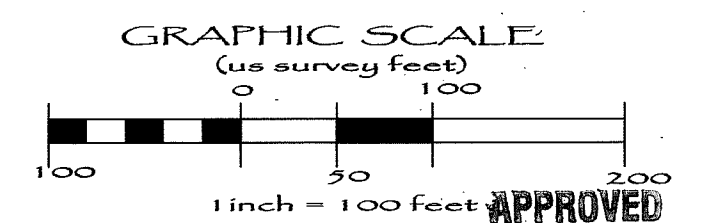
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PRESERVING NATURAL VEGETATION
- CE WSDOE BMP C105  
STABILIZED CONSTRUCTION ENTRANCE
- PS WSDOE BMP C120  
TEMPORARY AND PERMANENT SEEDING
- MU WSDOE BMP C121  
MULCHING
- DC WSDOE BMP C140  
DUST CONTROL
- IP WSDOE BMP C220  
STORM DRAIN INLET PROTECTION  
(SEE NOTE 4)
- SB WSDOE BMP C241  
TEMPORARY SEDIMENT POND
- FF WSDOE BMP C233  
SILT FENCE  
(SEE NOTE 5)

CL CL INDICATES CLEARING LIMITS

↑ DRAINAGE FLOW DIRECTION ARROWS  
(SHEET FLOW OR SHALLOW CHANNEL FLOW)

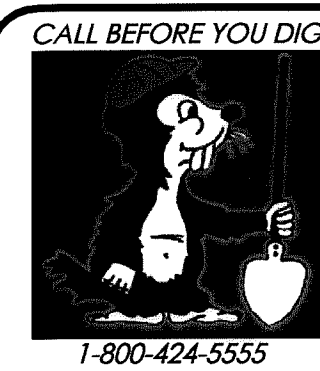
AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

AS-BUILT  
DRAWING



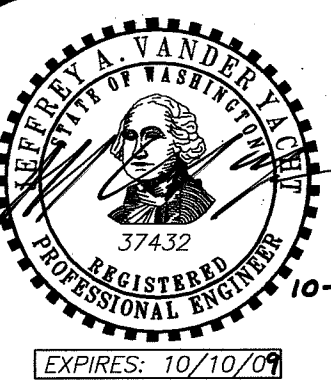
APPROVED  
JAN 17 2006  
BY [Signature]  
CITY OF FERNDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: 1" = 50'					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: N.A.					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
				DWG: P:\PSE Project\2005054\DWGS\ENG_BASE_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									



CROWN POINT HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERNDAL, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**TEMPORARY EROSION & SEDIMENT CONTROL PLAN**  
JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 29 OF 34



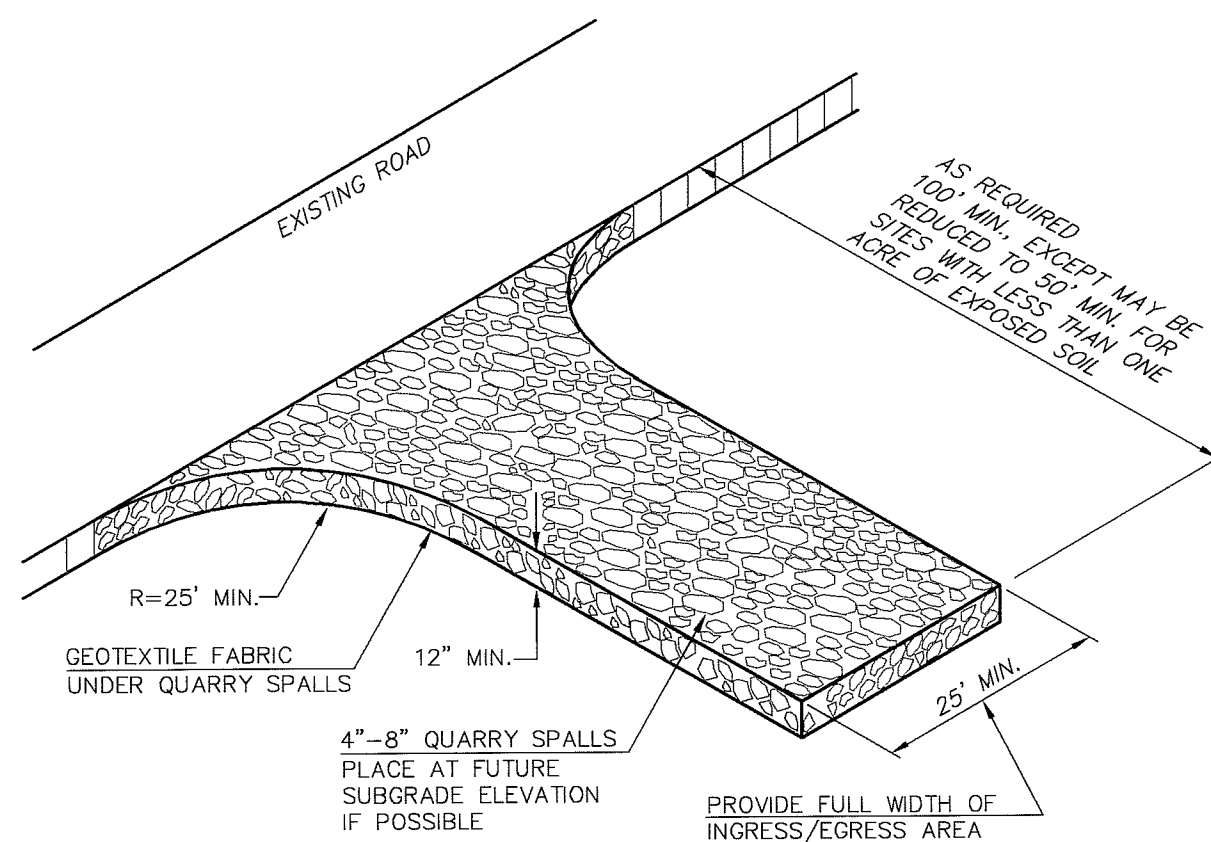
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www.psesurvey.com  
EMAIL: pse@psurvey.com

PACIFIC SURVEY & ENGINEERING INC  
1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685

# TEMPORARY EROSION & SEDIMENT CONTROL DETAILS

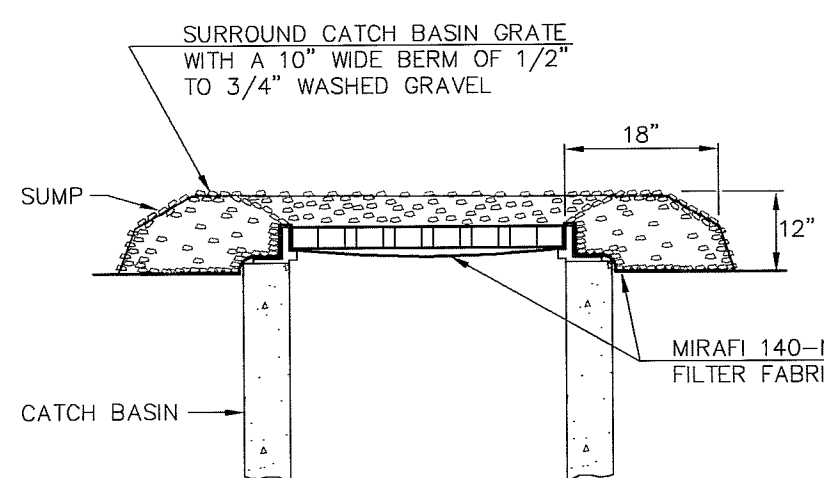


## ROCK STABILIZATION CONSTRUCTION ROAD ENTRANCE

### MAINTENANCE:

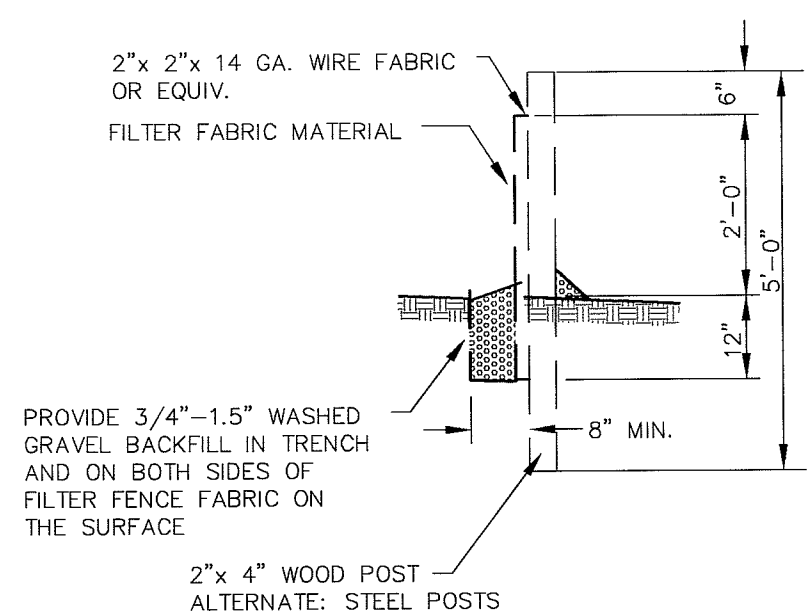
THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 4 TO 8-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.

MULCH SPECIFICATIONS			
Mulch Material	Quality Standards	Application Rates	Remarks
Straw	Air-dried; free from undesirable seed and coarse material	2"-3" thick; 2-3 bales per 1000 sq. ft. or 2-3 tons per acre	Cost-effective protection when applied with adequate thickness. Hand-application generally requires greater thickness than blown straw. Straw should be crimped to avoid wind blow. The thickness of straw may be reduced by half when used in conjunction with seeding.
Wood Fiber Cellulose	No growth inhibiting factors	Approx. 25-30 lbs. per 1000 sq. ft. or 1000-1500 lbs per acre	Shall be applied with hydromulcher. Shall not be used without seed and tackifier unless the application rate is at least doubled. Some wood fiber with very long fibers can be effective at lower application rates and without seed or tackifier.
Compost	No visible water or dust during handling. Must be purchased from supplier with Solid Waste Handling Permit.	2" thick min.; approx. 100 tons per acre (approx. 800 lbs per yard)	More effective control can be obtained by increasing thickness to 3". Excellent mulch for protecting final grades until landscaping because it can be directly seeded or tilled into soil as an amendment. Sources for compost are available from the King County Commission for Marketing Recyclable Materials at 296-4439.
Chipped Site Vegetation	Average size shall be several inches.	2" minimum thickness	This is a cost-effective way to dispose of debris from clearing and grubbing and eliminates the problems associated with burning. It should generally not be used on slopes above approx. 10% because of its tendency to be transported by runoff. It is not recommended within 200 feet of surface waters. If seeding is expected shortly after mulch, the decomposition of the chipped vegetation may tie up nutrients important to grass establishment.



## INTERIM CATCH BASIN GRATE PROTECTION

NOT TO SCALE



## SILT FILTER FENCE DETAIL

NOT TO SCALE

## TEMPORARY EROSION/SEDIMENTATION CONTROL

- A COPY OF THESE APPROVED PLANS MUST BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- APPROVAL OF THESE TEMPORARY EROSION/SEDIMENTATION CONTROL (TESC) PLANS DOES NOT CONSTITUTE AN APPROVAL OF PERMANENT ROAD OR DRAINAGE DESIGN (E.G., SIZE AND LOCATION OF ROADS, PIPES, RESTRICTORS, CHANNELS, RETENTION FACILITIES, UTILITIES, ETC.).
- THE IMPLEMENTATION OF THESE TESC PLANS AND THE CONSTRUCTION, MAINTENANCE, REPLACEMENT AND UPGRADING OF THESE TESC FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL ALL CONSTRUCTION IS APPROVED.
- THE BOUNDARIES OF THE CLEARING LIMITS SHOWN ON THIS PLAN 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 TESC 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 FUNCTIONING.
- ANY AREA STRIPPED OF VEGETATION, INCLUDING ROADWAY EMBANKMENTS, WHERE NO FURTHER WORK IS ANTICIPATED FOR A PERIOD OF 7 DAYS, SHALL BE IMMEDIATELY STABILIZED WITH THE APPROVED TESC METHODS (E.G., SEEDING, MULCHING, NETTING, 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 24 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 CLEANED PRIOR TO PAVING. THE CLEANING OPERATION SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM SYSTEM.
- STABILIZED CONSTRUCTION ENTRANCES AND WASH PADS 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.
- DURING THE TIME PERIOD OF OCTOBER 1 THROUGH APRIL 30, ALL PROJECT DISTURBED AREAS GREATER THAN 5,000 SQUARE FEET, THAT ARE TO BE LEFT UNWORKED FOR MORE THAN 12 HOURS, SHALL BE COVERED BY ONE OF THE FOLLOWING COVER MEASURES: MULCH, SODDING OR PLASTIC COVERING.
- ANY PERMANENT RETENTION/DETENTION FACILITY USED AS A TEMPORARY SETTLING BASIN SHALL BE MODIFIED WITH THE NECESSARY EROSION CONTROL MEASURES AND SHALL PROVIDE ADEQUATE STORAGE CAPACITY. IF THE PERMANENT FACILITY IS TO FUNCTION ULTIMATELY AS AN INFILTRATION OR DISPERSION SYSTEM, THE FACILITY SHALL NOT BE USED AS A TEMPORARY SETTLING BASIN. NO UNDERGROUND DETENTION TANK, DETENTION VAULT, OR SYSTEM WHICH BACKS UNDER OR INTO A POND SHALL BE USED AS A TEMPORARY SETTLING BASIN.
- WHERE SEEDING FOR TEMPORARY EROSION CONTROL IS REQUIRED, FAST GERMINATING GRASSES SHALL BE APPLIED AT AN APPROPRIATE RATE (E.G. ANNUAL OR PERENNIAL RYE APPLIED AT APPROXIMATELY 80 POUNDS PER ACRE).
- WHERE STRAW MULCH FOR TEMPORARY EROSION CONTROL IS REQUIRED, IT SHALL BE APPLIED AT A MINIMUM THICKNESS OF TWO INCHES.
- ALL EROSION/SEDIMENTATION CONTROL PONDS WITH A DEAD STORAGE DEPTH EXCEEDING 6 INCHES MUST HAVE SLOPES NOT STEEPER THAN 3H:1V.
- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARDS AND SPECIFICATIONS.
- EROSION/SEDIMENTATION CONTROL FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS IN THESE PLANS. LOCATIONS MAY BE MOVED TO SUIT FIELD CONDITIONS, SUBJECT TO APPROVAL BY THE ENGINEER AND THE CITY INSPECTOR.

## NPDES NOTES

- THE CONTRACTOR SHALL KEEP A RECORD OF THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE IMPLEMENTED.
- ALL EROSION CONTROL FACILITIES SHALL BE INSPECTED, MAINTAINED AND REPAIRED BY THE CONTRACTOR AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. ALL ON SITE EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE INSPECTED AT LEAST ONCE EVERY SEVEN DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT OF GREATER THAN 0.5 INCHES PER 24 HOUR PERIOD. AN INSPECTION REPORT FILE SHALL BE MAINTAINED BY THE CONTRACTOR.

## FILTER FENCE NOTES

- THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST WITH A MINIMUM 6-INCH OVERLAP AND BOTH ENDS SECURELY FASTENED TO THE POST.
- THE FILTER FABRIC FENCE SHALL BE INSTALLED TO FOLLOW THE CONTOURS (WHERE FEASIBLE). THE FENCE POSTS SHALL BE SPACED AT A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND (MINIMUM OF 30 INCHES).
- A TRENCH SHALL BE EXCAVATED, ROUGHLY 8 INCHES WIDE AND 12 INCHES DEEP, UPSLOPE AND ADJACENT TO THE WOOD POST TO ALLOW THE FILTER FABRIC TO BE BURIED.
- WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.
- THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE AND 20 INCHES OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES.
- WHEN EXTRA STRENGTH FILTER FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE 5 APPLYING.
- THE TRENCH SHALL BE BACKFILLED WITH 3/4-INCH MINIMUM DIAMETER WASHED GRAVEL.
- FILTER FABRIC FENCES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFUL PURPOSE BUT NOT BEFORE THE UPSLOPE AREA HAS BEEN PERMANENTLY STABILIZED.
- FILTER FABRIC FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

## SEEDING NOTES

- SEEDBED PREPARATION MAY INCLUDE THE FOLLOWING:
  - IF INFERTILE OR COARSE TEXTURED SUBSOIL WILL BE EXPOSED DURING GRADING, STOCKPILE TOPSOIL AND RE-SPREAD IT OVER THE FINISHED SLOPE AND ROLL IT TO PROVIDE A FIRM BASE.
  - IF CONSTRUCTION FILLS HAVE LEFT SOIL EXPOSED WITH A LOOSE, ROUGH OR IRREGULAR SURFACE, TRACK WALK UP SLOPE.
  - IF CUTS OR CONSTRUCTION EQUIPMENT HAVE LEFT A TIGHTLY COMPACTED SURFACE, BREAK WITH CHISEL PLOW OR OTHER SUITABLE EQUIPMENT.
  - PERFORM ALL CULTURAL OPERATIONS ACROSS OR AT RIGHT ANGLES TO THE SLOPES (CONTOURED). THE SEEDBED SHOULD BE FIRM WITH A FAIRLY FINE SURFACE AFTER ROUGHENING.
- FERTILIZATION - AS PER SUPPLIER'S RECOMMENDATIONS. DEVELOPMENTS ADJACENT TO WATER BODIES MUST USE NON-PHOSPHOROUS FERTILIZER.
- HYDROSEEDING APPLICATIONS WITH APPROVED SEED-MULCH-FERTILIZER MIXTURES MAY ALSO BE USED.
- SEEDING - APPLY APPROPRIATE MIXTURE TO THE PREPARED SEEDBED AT A RATE OF 120 LBS./ACRE. COVER THE SEED WITH TOPSOIL OR MULCH NO DEEPER THAN ONE-HALF INCH.

TEMPORARY EROSION CONTROL SEED MIX	PROPORTIONS BY WEIGHT	PERCENT PURITY	PERCENT GERMINATION
CHEWINGS OR RED FESCUE	40%	98	90
ANNUAL OR PERENNIAL RYE	40%	98	90
REDFEATHER OR COLONIAL BENTGRASS	10%	92	85
WHITE DUTCH CLOVER	10%	98	90

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

# AS-BUILT DRAWING

APPROVED

JAN 17 2006

BY CITY OF FERNDALE

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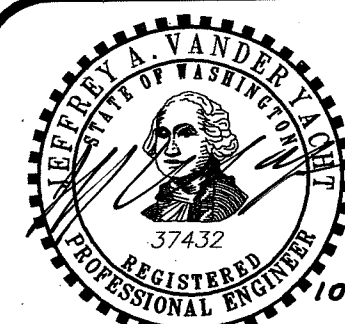
CROWN POINT  
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FERNDAL, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**TEMPORARY EROSION &  
SEDIMENT CONTROL DETAILS**

JOB #: 2005054

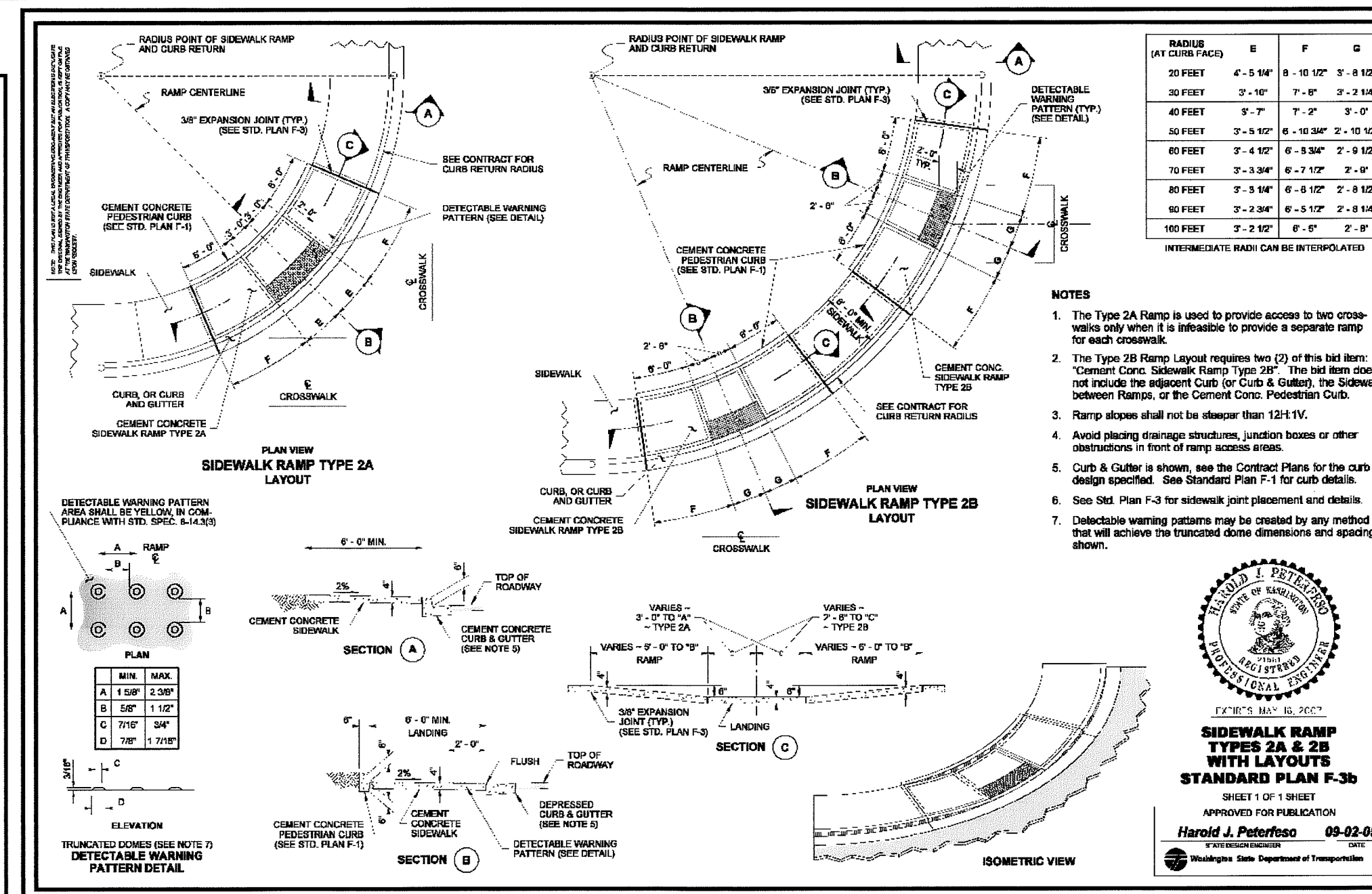
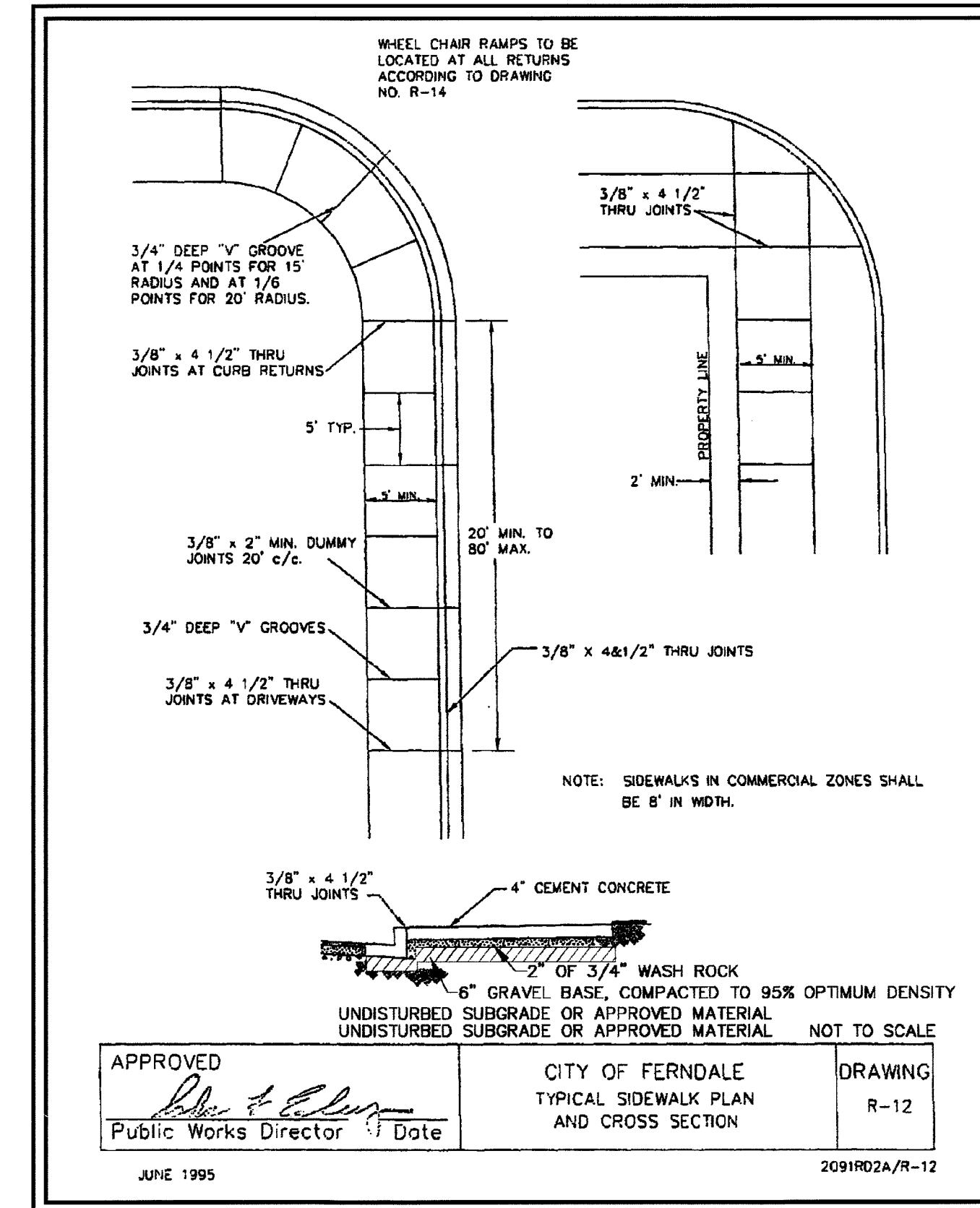
COF PROJECT NO. LP 2006-03

SHEET 30 OF 34



EXPIRES: 10/10/06

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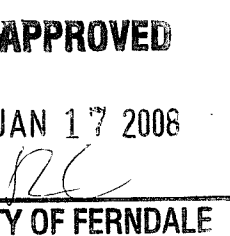


**APPROVED**  
JAN 17 2008  
BY RL  
CITY OF FERNDA

10

EXPIRES: 10/10/09

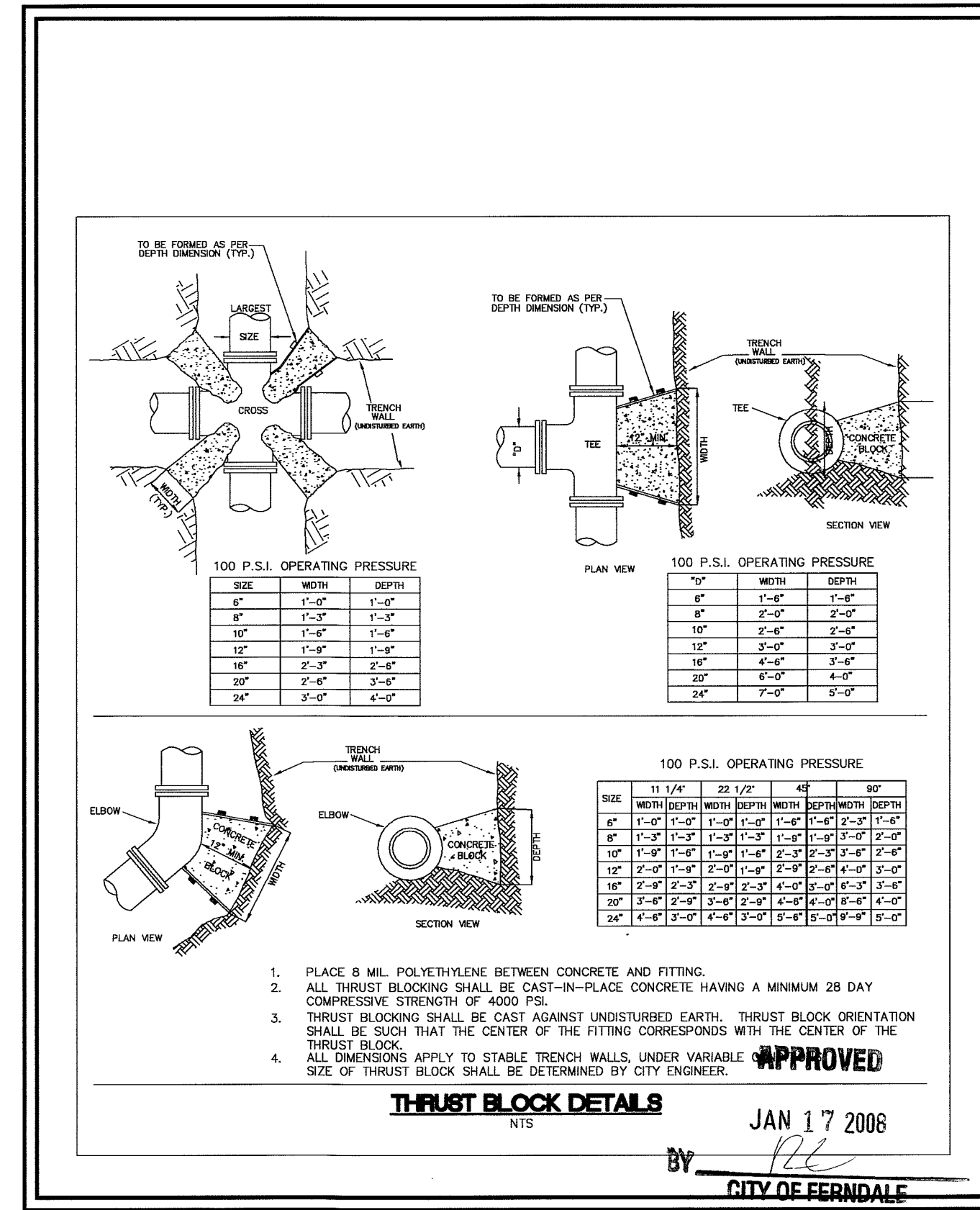
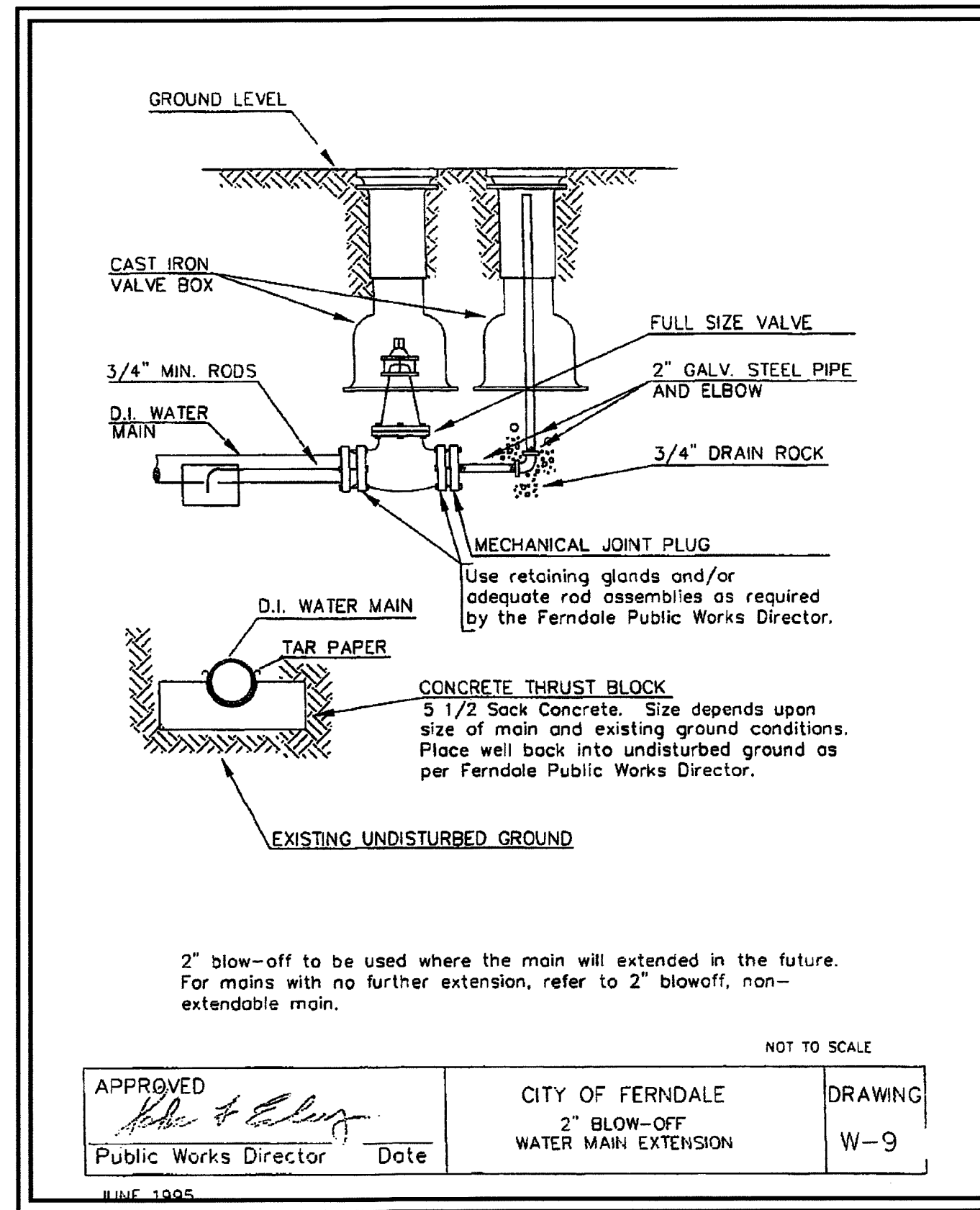
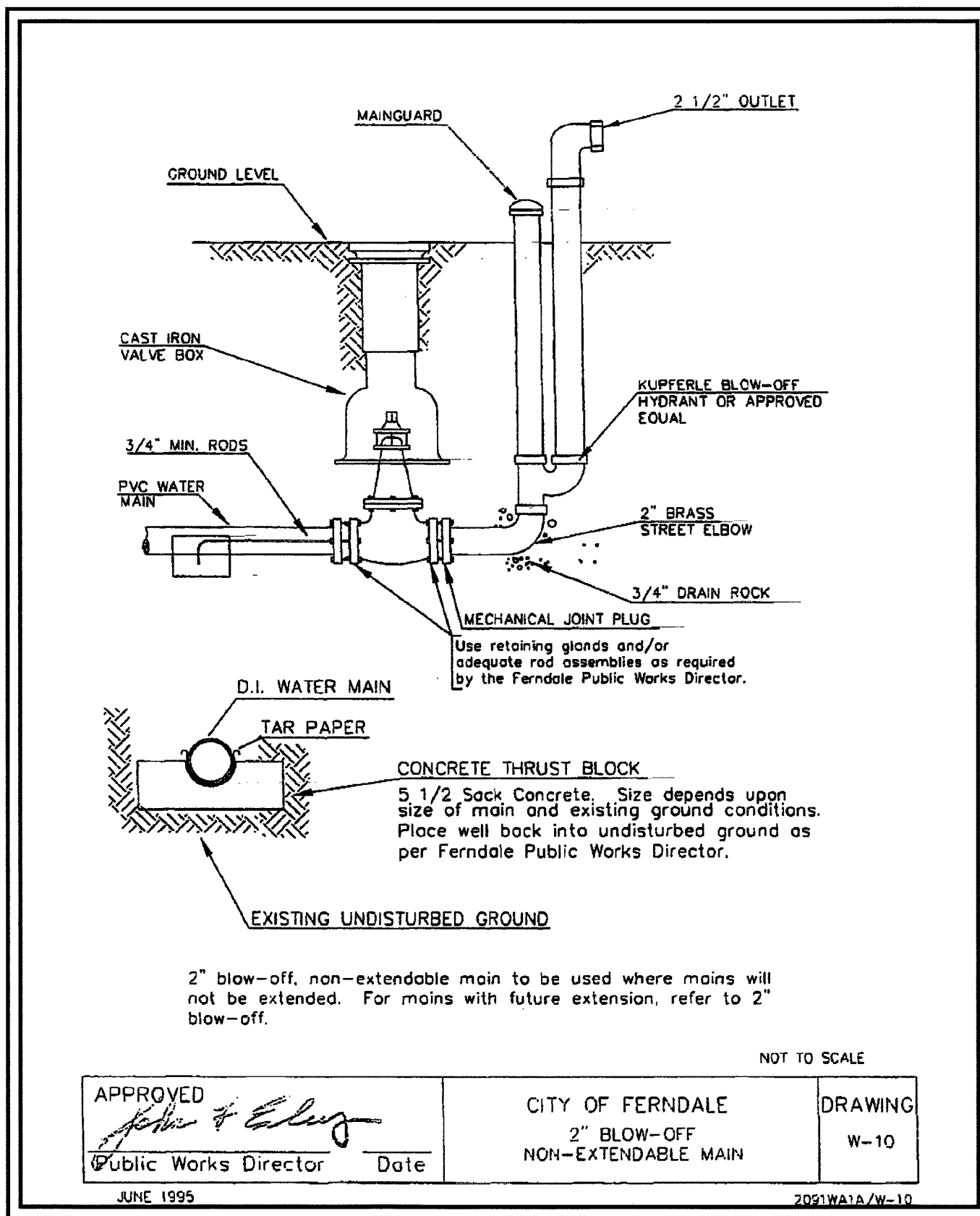
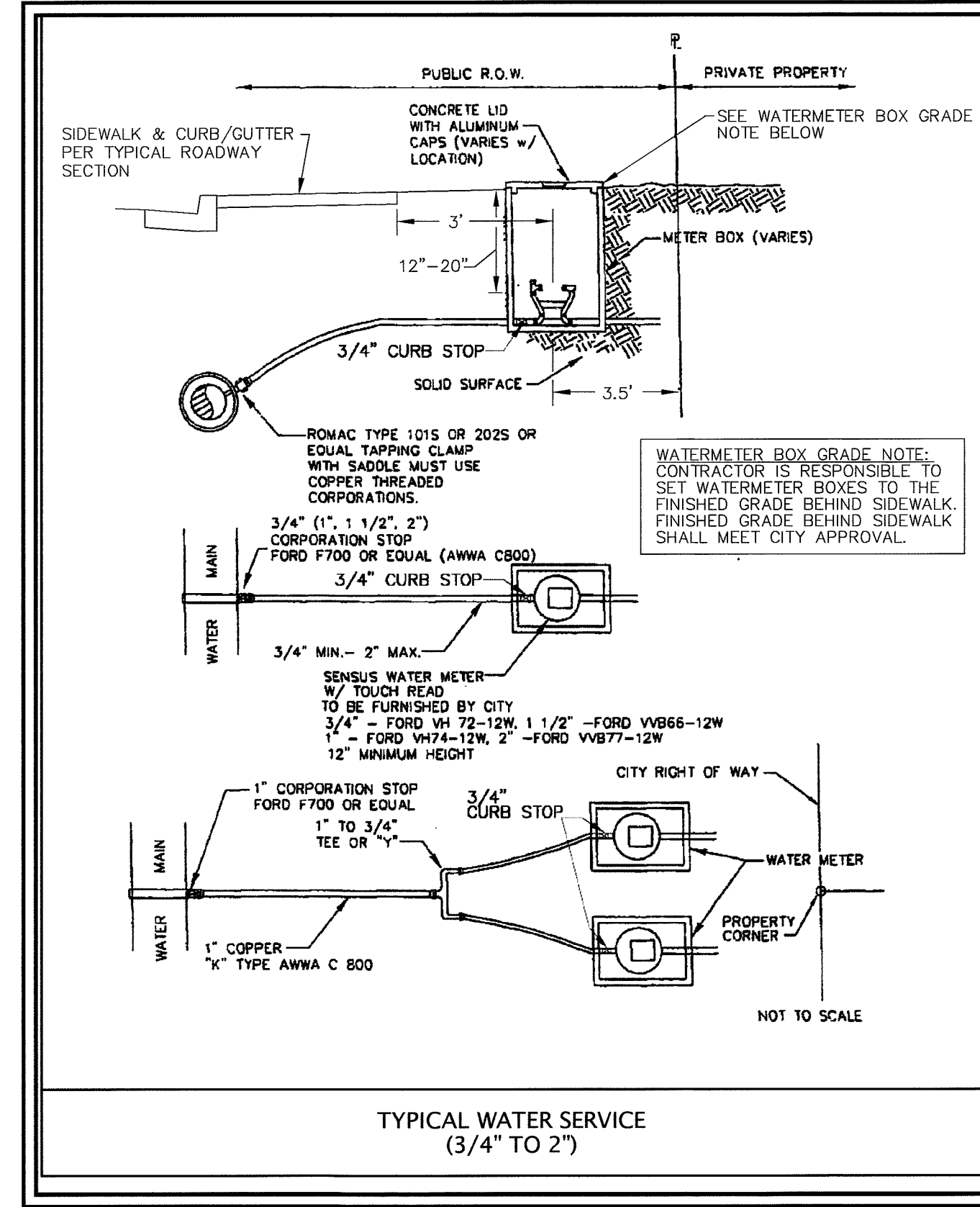
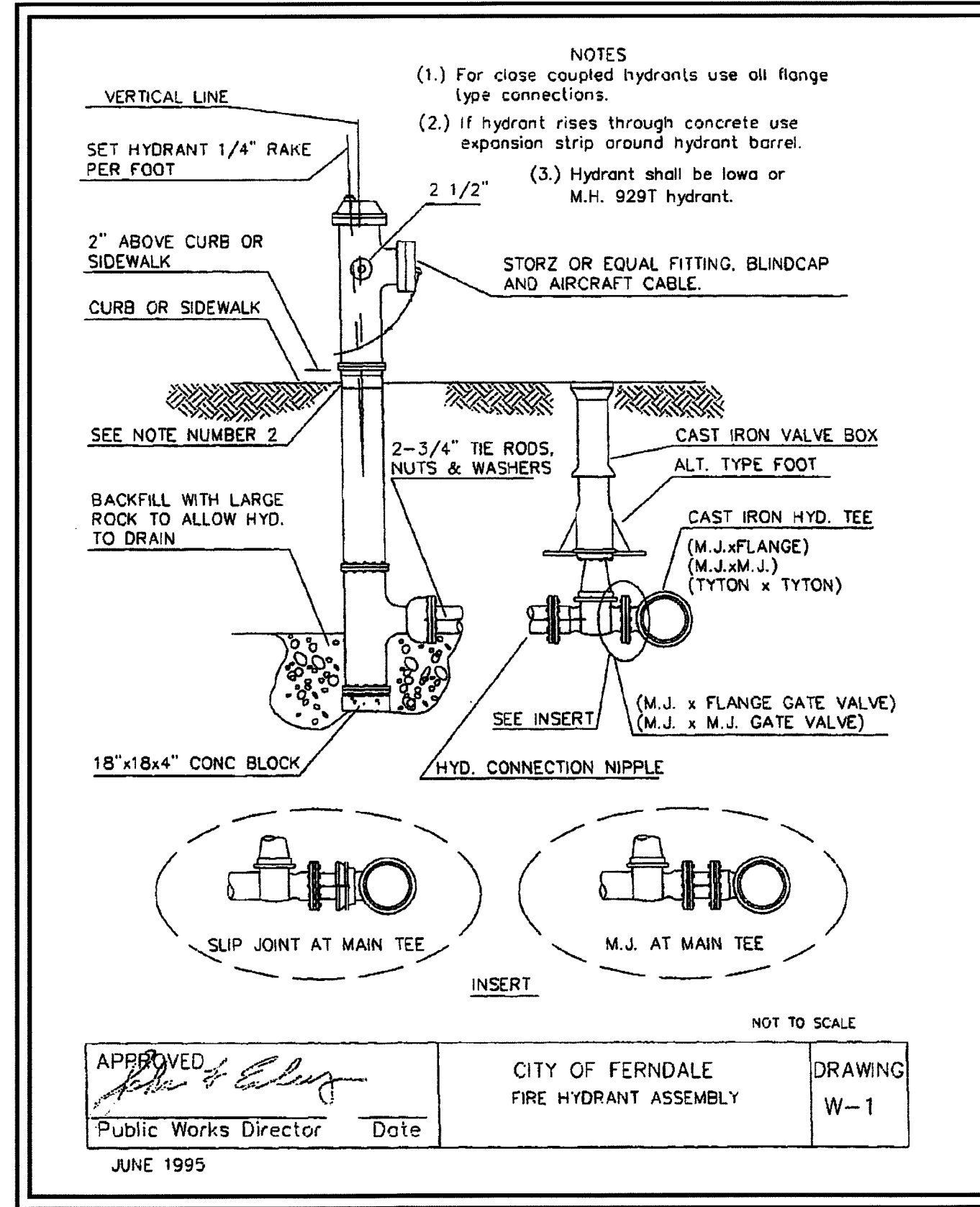
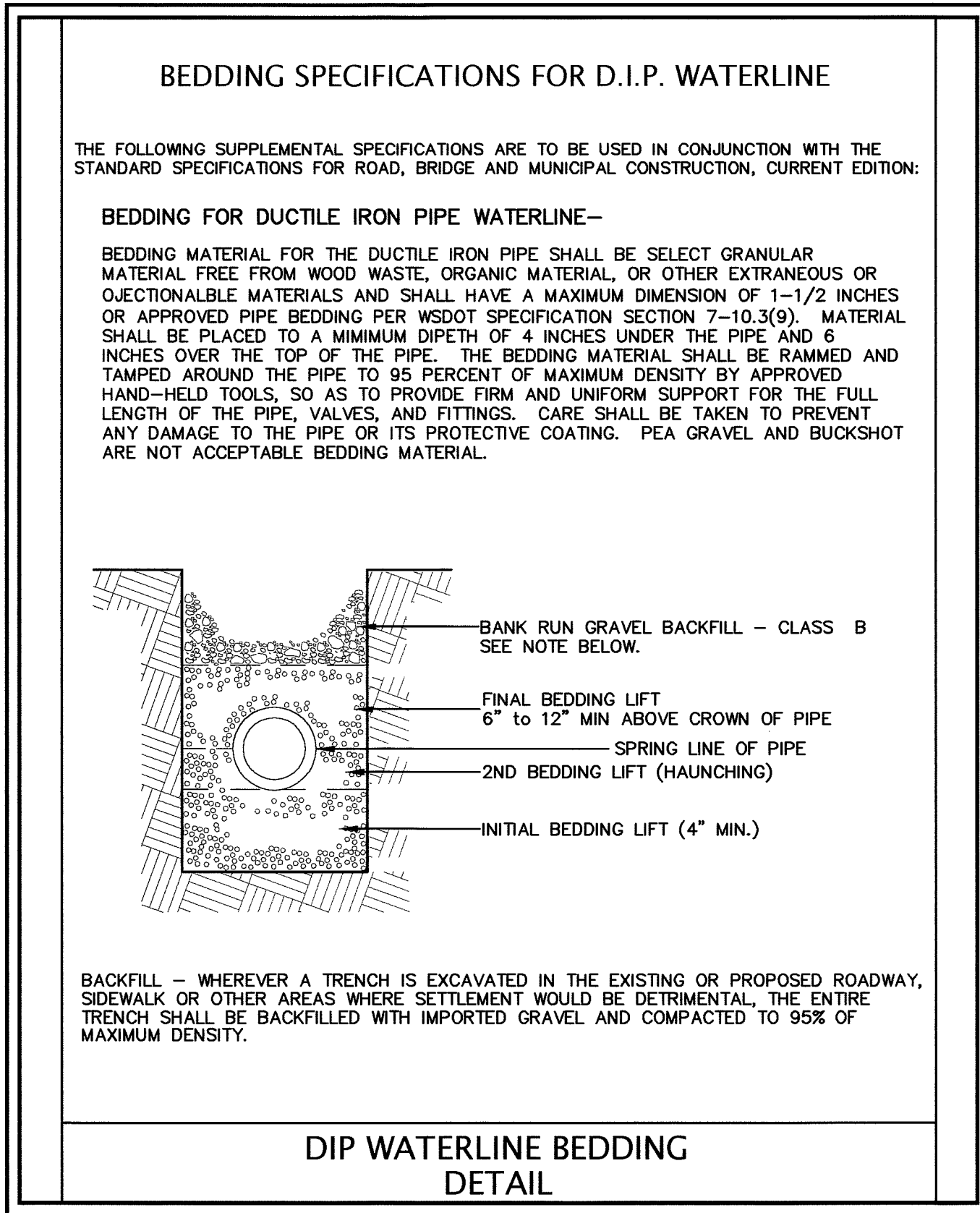
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1812 CORNWALL, BELLINGHAM, WA 98225 PHONE: 671.7387 FAX: 671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com

# WATER SYSTEM DETAILS



AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS "AB" HAS BEEN FIELD SURVEYED OR MEASURED DURING CONSTRUCTION.

**AS-BUILT DRAWING**

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: N.A.					1	04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: N.A.					2	07/02/07
AS-BUILT:				XREF:								3	10/01/07
				DWG: P:\PSE Project\2005054\DWGS\COVER_NOTES_DETAILS_AB.dwg									
SURVEY REFERENCE	VERTICAL DATUM	PLAN CHECK	REVISIONS	ISSUE									

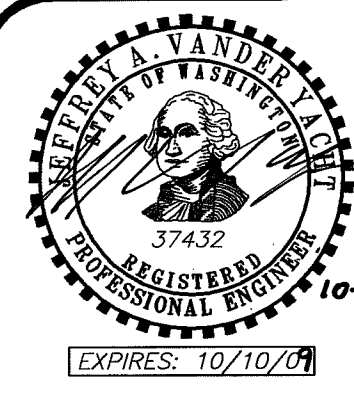
CALL BEFORE YOU DIG



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FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
**WATER SYSTEM DETAILS**

JOB #: 2005054 COF PROJECT NO. LP 2006-03 SHEET 33 OF 34



00380.033 7-10-09 DD



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1812 CORNWALL, BELLINGHAM, WA 98225 PHONE:671.7387 FAX:671.4685  
www.psesurvey.com  
EMAIL: pse@psurvey.com

# GENERAL CONSTRUCTION NOTES

## 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 FERDALE 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 FERDALE 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 FERDALE 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 FERDALE. REPRESENTATIVES FROM THE CITY OF FERDALE 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.
  - 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 FERDALE 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 FERDALE 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. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION MANAGER IF 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 FERDALE 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 FERDALE 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	TYPICAL SECTION ON SHEET 1 OF THESE PLANS CITY OF FERDALE STANDARD DETAIL (COFSD) R-9 COFSD R-12 & TYP. SECTION ON SHEET 1 WSDOT STD. DETAIL F-3 COFSD ST-15 COFSD S-2
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- ALTERNATE PAVEMENT SECTIONS, WHEN DESIGNED BY A LICENSED GEOTECHNICAL ENGINEER, MAY BE SUBMITTED TO THE CITY OF FERDALE PUBLIC WORKS DIRECTOR FOR CONSIDERATION AND, IF APPROVED, USED IN PLACE OF THE PAVEMENT SECTION SHOWN ON THESE PLANS.
- PROJECT SURVEYOR OR THEIR DESIGNEE SHALL SURVEY THE ELEVATION OF THE COMPLETED SUBGRADE ALONG THE ROADWAY CENTERLINE AT 25-FOOT INTERVALS. THE PROJECT SURVEYOR SHALL SUBMIT THE SURVEY DATA TO THE CITY OF FERDALE AND THE ENGINEER FOR REVIEW. ALL SUBGRADE ELEVATIONS SHALL BE AT OR BELOW THE DESIGN SUBGRADE ELEVATION. NO TOLERANCE IS PROVIDED FOR SUBGRADE ABOVE THE DESIGN SUBGRADE ELEVATION. OTHER METHODS OF SUBGRADE CERTIFICATION MAY BE USED IF MUTUALLY AGREED UPON BY THE CITY, CONTRACTOR, AND ENGINEER.
- ROADWAY EXCAVATION WITHIN THE ROADWAY PRISM SHALL BE CUT TO A UNIFORM GRADE. THE COMPLETED SUBGRADE SURFACE SHALL NOT VARY MORE THAN 0.10-FOOT FROM THE LOWER EDGE OF A 15-FOOT STRAIGHTEDGE PLACED ON THE SUBGRADE PARALLEL TO THE CENTERLINE UNLESS APPROVED BY THE ENGINEER.
- 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.
  - UNSATURABLE 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.
- 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 PROVIDE A SMOOTH TRANSITION FROM EXISTING TO PROPOSED PAVING. CONTRACTOR SHALL COLD PLANE PER DIMENSIONS SPECIFIED ON THE PLANS, AND INSTALL A MINIMUM 2-FOOT WIDE PETROTAC PAVING FABRIC, OR EQUIVALENT, OVER JOINT BETWEEN PAVING LIFTS.
  - 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 FERDALE 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 FERDALE PUBLIC WORKS DIRECTOR.
  - CONTRACTOR MUST INFORM THE CITY OF FERDALE PUBLIC WORKS DIRECTOR OF A PROPOSED CONNECTION AT LEAST FOUR (4) WORKING DAYS IN ADVANCE.
- MAILBOXES
  - MAILBOX STRUCTURES SHALL BE IN ACCORDANCE WITH DETAIL SHEET 15. FINAL LOCATION AS DETERMINED BY USPS AND APPROVED BY CITY OF FERDALE.
  - MAILBOXES SHALL BE TYPE I, II, AND/OR III - CBU (CENTRAL BOX UNIT), USPS APPROVED.

## 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 FERDALE STANDARD DETAIL (COFSD) ST-7 CITY OF FERDALE STANDARD DETAIL (COFSD) ST-8 COFSD ST-15
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- 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.
- BACK OF WALK DRAIN SHALL BE 4" SMOOTH WALL PERFORATED PVC PIPE, ASTM D 3034 SDR35, INSTALLED IN CUT SECTIONS PER COFSD ST-15.
- 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 80-55-08".
- ALL DRAINAGE STRUCTURES, SUCH AS CATCH BASINS AND MANHOLES, NOT LOCATED WITHIN A TRAVELED ROADWAY OR SIDEWALK, SHALL HAVE SOLID LOOKING LIDS. ALL DRAINAGE STRUCTURES ASSOCIATED WITH A PERMANENT RETENTION/DETENTION FACILITY SHALL HAVE SOLID LOOKING LIDS.
- EACH DRAINAGE SERVICE STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. WHITE PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" STENCILED WITH THE WORD "STORM" AND THE PIPE INVERT INDICATED. THE LOCATION MARKER SHALL BE CONNECTED TO THE SERVICE STUB BY A #12 COPPER WIRE.
- LOT/ROOF DRAIN SERVICES SHALL BE MIN. 4" PVC PIPE, ASTM D 3034 SDR35. MULTIPLE RESIDENTIAL STORM DRAIN SERVICES SHALL BE 6" 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, TYPE 1L, OR TYPE 2 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 FERDALE STANDARD DETAIL (COFSD) SS-1 COFSD SS-15 & SS-1 & WSDOT STD. SPEC. SEC. 9-03.12 COFSD SS-2 COFSD SS-9 (BOLT DOWN/WATERTIGHT) COFSD SS-5 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, 1996 EDITION, AND SHALL BE SUBJECT TO APPROVAL BY THE CITY OF FERDALE.
- WORK MUST BE INSPECTED TO THE SATISFACTION OF THE CITY OF FERDALE. 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 FERDALE 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 FERDALE 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 FERDALE STANDARD DETAILS SS-6, SS-8 OR SS-13, EXCEPT THAT SINGLE SIDE SEWERS SHALL HAVE A MINIMUM DIAMETER OF 4".
- CONTRACTOR SHALL EXTEND SEWER STUBS 5 FEET BEYOND UTILITY CORRIDOR OR 15 FEET BEYOND RIGHT-OF-WAY LINE.
- EACH SIDE SEWER STUB SHALL BE CAPPED WITH A WATERTIGHT PLUG. EACH STUB SHALL BE MARKED FOR LOCATION WITH A 2" DIA. PVC PIPE (MIN. SCHEDULE 40) WITH THE TOP 18" PAINTED GREEN AND STENCILED WITH THE WORD "SEWER" AND THE PIPE INVERT INDICATED. 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 BLOW-OFF ASSEMBLY FIRE HYDRANT ASSEMBLY THRUST BLOCKING WATER SERVICE	SEE DETAIL, SHEET 16 COFSD W-11 & WSDOT STD. SPEC. SEC. 9-03.12 COFSD W-9 & W-10 COFSD W-1 COFSD W-2, W-3 & W-4 COFSD W-6, & DETAIL SHEET 16
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- ALL WATER MAIN 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 FERDALE DEVELOPMENT STANDARDS, SECTIONS 702 AND 705.
- MATERIAL FOR FITTINGS SUCH AS CROSSES, 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 FERDALE STANDARD DETAILS W-2, W-3 AND W-4, OR AS DIRECTED BY THE PROJECT ENGINEER. BLOCKS SHALL BE INSTALLED AS SPECIFIED IN SECTION 7-11.3(13) 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 - THE CONTRACTOR MUST NOTIFY THE CITY OF FERDALE 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.
- ALL HYDROSTATIC TESTING AND DISINFECTION OF WATER MAINS SHALL CONFORM TO SECTION 7-09.3 OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD 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 FERDALE REQUIREMENTS. DISINFECTION AND BACTERIOLOGICAL TESTS SHALL BE CONDUCTED BY THE CITY OF FERDALE 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 10 INCHES IN DIAMETER. SHORT-BODY VALVES SUITABLE FOR A NON-SHOCK 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 NON-RISING 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 FERDALE DEVELOPMENT STANDARDS. ALL WATER SERVICE STUB ENDS SHALL BE MARKED FOR LOCATION WITH A 4" LONG 2" X 4" TIMBER, PAINTED BLUE.
- CONTRACTOR IS RESPONSIBLE TO SET WATERMETER BOXES TO THE FINISHED GRADE BEHIND SIDEWALK. FINISHED GRADE BEHIND SIDEWALK SHALL MEET CITY APPROVAL.
- 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" NST PUMPER NOZZLE AND A 5" STORZ PORT WITH CAP AND AIRCRAFT 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 NOT 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.
  - 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 200 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.

AS-BUILT NOTE:  
ONLY INFORMATION NOTED AS  
"AB)" HAS BEEN FIELD SURVEYED  
OR MEASURED DURING CONSTRUCTION.

# AS-BUILT DRAWING

APPROVED

JAN 17 2008

BY   
CITY OF FERDALE

FIELD BOOKS	TBM. NO.	LOCATION	ELEV.	DATA	DRAWN BY	CHECKED BY	SCALE	REV	DATE	DESCRIPTION	BY	No.	DATE
DESIGN: SEE SURVEY NOTES, SHEET 1				BASE	BEA	BEA	HORIZ: N.A.					1	AS-BUILT DRAWINGS 04/03/07
STAKING:				DESIGN	BEA	JVY	VERT: N.A.					2	AS-BUILT DRAWINGS 07/02/07
ASBUILT:				XREF:								3	AS-BUILT DRAWINGS 10/01/07
				DWG: P:\PSE Project\2005054\DWGS\COVER_NOTES_DETAILS_AB.dwg									
SURVEY REFERENCE		VERTICAL DATUM		PLAN CHECK		REVISIONS		ISSUE					

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HOLDINGS, INC.  
6540 NORTH STAR ROAD  
FERDALE, WASHINGTON 98248

WHISKEY CREEK PLAT  
ROADWAY & UTILITY IMPROVEMENT PLANS  
GENERAL CONSTRUCTION  
NOTES

JOB #: 2005054

COF PROJECT NO. LP 2006-03

SHEET 34 OF 34



EXPIRES: 10/10/09

10-11-07

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