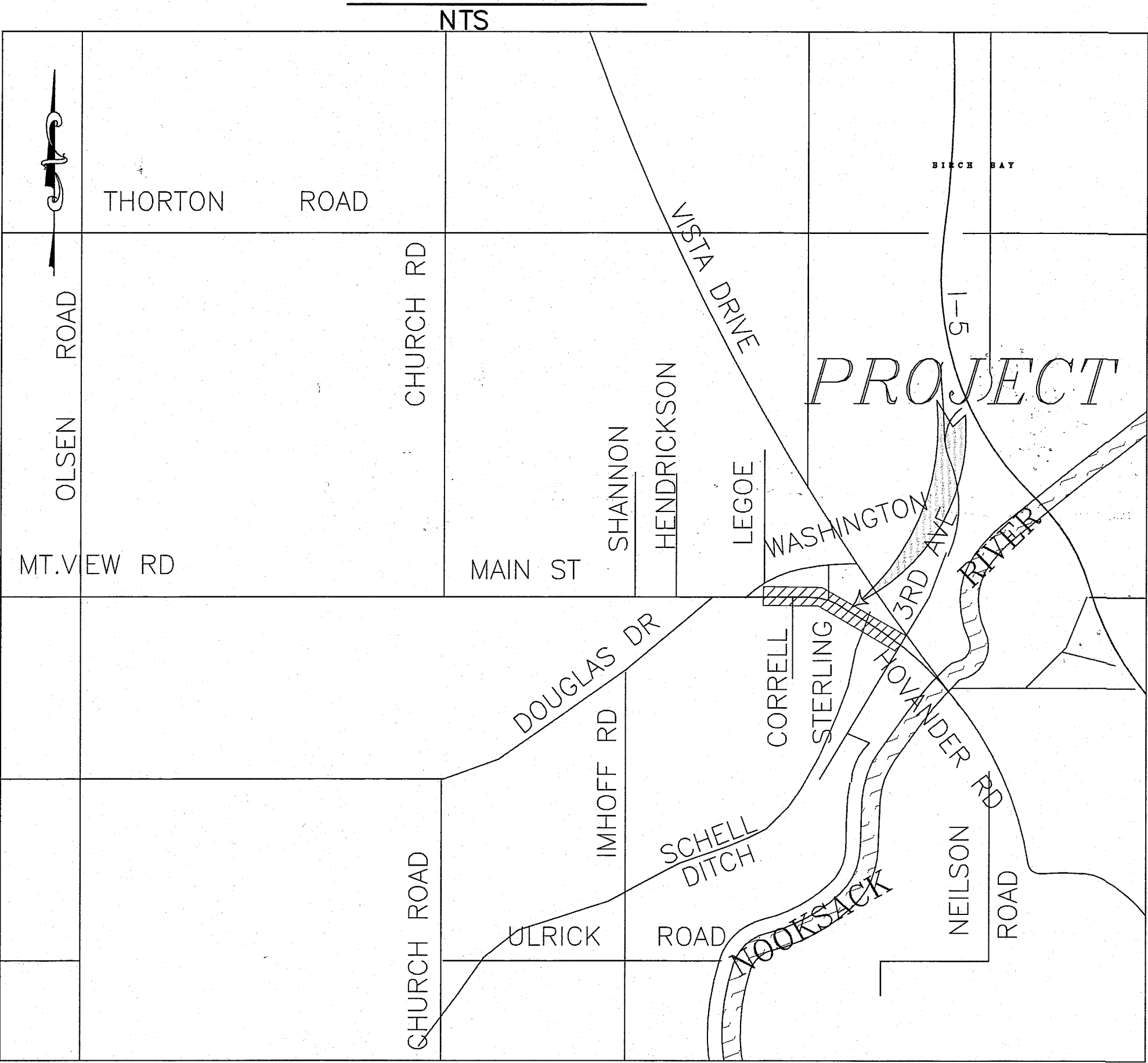


MAIN STREET PHASE 2a PROJECT WASHINGTON ST. TO THIRD AVE.

CITY OF FERNDALE
FEDERAL AID #STPUS 8030(005)

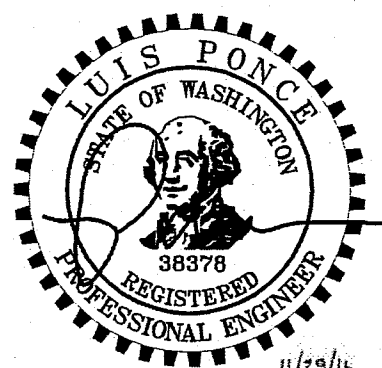
VICINITY MAP



SHEET INDEX

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		43 UTILITY TRENCH DETAILS
		44 TEMPORARY PAVEMENT SECTION

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MAIN STREET
STREET IMPROVEMENTS
COVER SHEET

JOB# / DWG
08018 08018_SP1.AB
SCALE
H:n/a V:n/a
DATE
7-21-10
SHEET
1

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00610.001 12/23/16 ST

LEGEND

---	FM	---	FM	=	EX FORCE MAIN	---	---	---	---	=	PROP SAWCUT
---	TV	---	TV	=	EX TV LINE	-----	-----	-----	-----	=	PROP ROCKWALL
---	FO	---	FO	=	EX FIBER OPTICS LINE	-----	-----	-----	-----	=	PROP STORM DRAIN CATCH BASIN
---	G	---	G	=	EX GAS MAIN	-----	-----	-----	-----	=	PROP STORM DRAIN
				=	EX GAS METER	-----	-----	-----	-----	=	PROP STORM CLEANOUT
---	T	---	T	=	EX TELEPHONE LINE	-----	-----	-----	-----	=	PROP STORM CLEANOUT
---	W	---	W	=	EX WATER MAIN	-----	-----	-----	-----	=	PROP CATCH BASIN TYPE II
				=	EX FIRE HYDRANT	-----	-----	-----	-----	=	PROP SANITARY SEWER
				=	EX WATER METER	-----	-----	-----	-----	=	PROP SEWER MANHOLE
				=	EX WATER VALVE	-----	-----	-----	-----	=	PROP SEWER CLEANOUT
				=	EX UTILITY POLE	-----	-----	-----	-----	=	PROP WATERMAIN
				=	EX TELEPHONE PEDESTAL	-----	-----	-----	-----	=	PROP HYDRANT
				=	EX MAIL BOX	-----	-----	-----	-----	=	PROP WATER METER
				=	EX SIGN	-----	-----	-----	-----	=	PROP WATER VALVE
				=	EX TREE	-----	-----	-----	-----	=	PROP REPAIR COUPLER
				=	EX LANDSCAPING	-----	-----	-----	-----	=	EX CONTOUR
				=	EX GUY WIRE	-----	-----	-----	-----	=	EX IRRIGATION
				=	EX STREET LIGHT	-----	-----	-----	-----	=	PROPOSED RIGHT-OF-WAY
				=	EX POWER VAULT	-----	-----	-----	-----	=	PROPOSED BACK OF CURB
				=	EX JBOX	-----	-----	-----	-----	=	PROPOSED FACE OF CURB
---	SS	---	SS	=	EX SANITARY SEWER	-----	-----	-----	-----	=	PROPOSED SIDEWALK
				=	EX SEWER MANHOLE	-----	-----	-----	-----	=	EX STORM PROFILE, LEFT
				=	EX SEWER CLEANOUT	-----	-----	-----	-----	=	EX STORM PROFILE, RIGHT
				=	EX STORM DRAIN MANHOLE	-----	-----	-----	-----	=	EX POWER LINE
---	SD	---	SD	=	EX STORM DRAIN	-----	-----	-----	-----	=	EX TOE OF BANK
				=	EX STORM CLEANOUT	-----	-----	-----	-----	=	EX RIGHT OF WAY
				=	EX SD CATCH BASIN	-----	-----	-----	-----	=	EX PROPERTY BOUNDARY
---	X	---	X	=	EX FENCE	-----	-----	-----	-----	=	EX EASEMENT
---	---	---	---	=	EX DITCH CL	-----	-----	-----	-----	=	EX GRAVEL
				=	EX CULVERT	-----	-----	-----	-----	=	EX ROAD CL
-----	-----	-----	-----	=	EX EDGE OF PAVEMENT	-----	-----	-----	-----	=	EX BLDG
---	TB	---	TB	=	EX TOP OF BANK	-----	-----	-----	-----	=	EX WALK
---	---	---	---	=	EX TRAFFIC STRIPING	-----	-----	-----	-----	=	EX WALL
---	---	---	---	=	EX CONCRETE	-----	-----	-----	-----	=	
---	---	---	---	=	EX TOP BACK OF CURB	-----	-----	-----	-----	=	
---	---	---	---	=	EX FLOWLINE	-----	-----	-----	-----	=	
---	---	---	---	=	EX GRADEBREAK	-----	-----	-----	-----	=	
---	---	---	---	=	EX GUARDRAIL	-----	-----	-----	-----	=	

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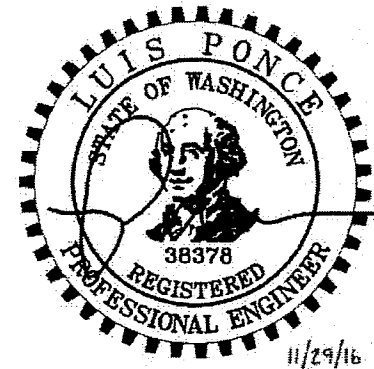
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
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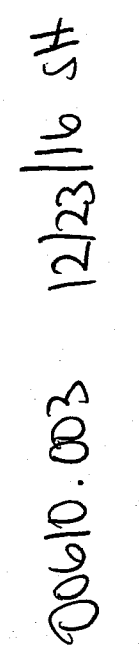
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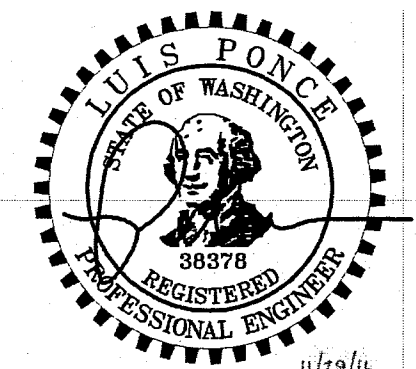
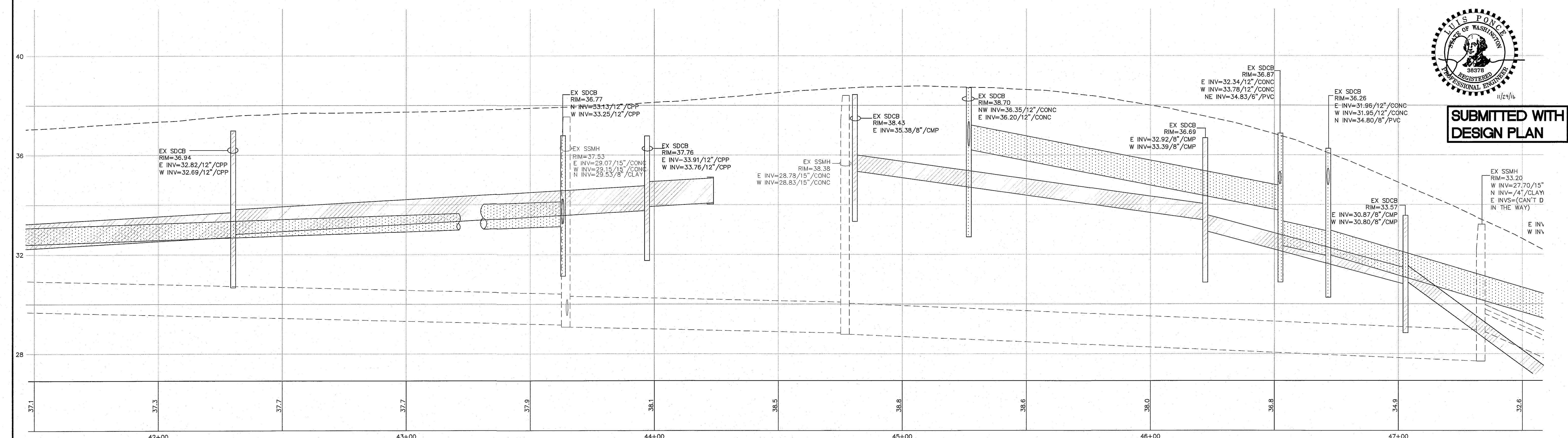
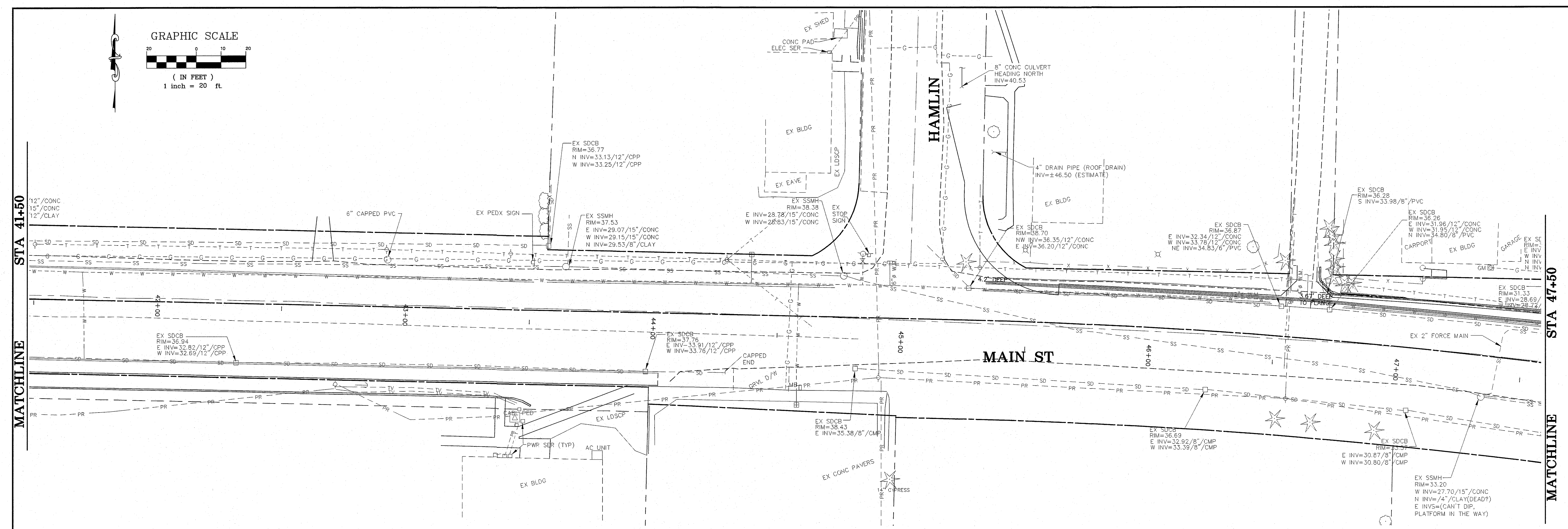
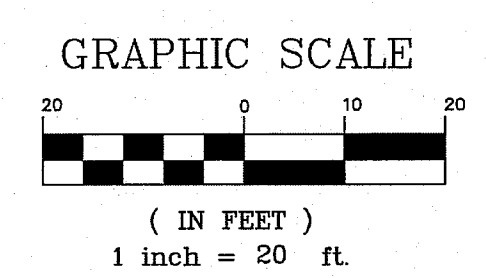
MAIN STREET
STREET IMPROVEMENTS
LEGEND

JOB# / DWG 08018 08018_SP1.AB	DATE 7-21-10
SCALE h:n/a v:n/a	SHEET 2





00010.007 12/23/16 SH



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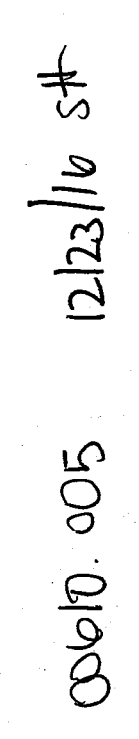
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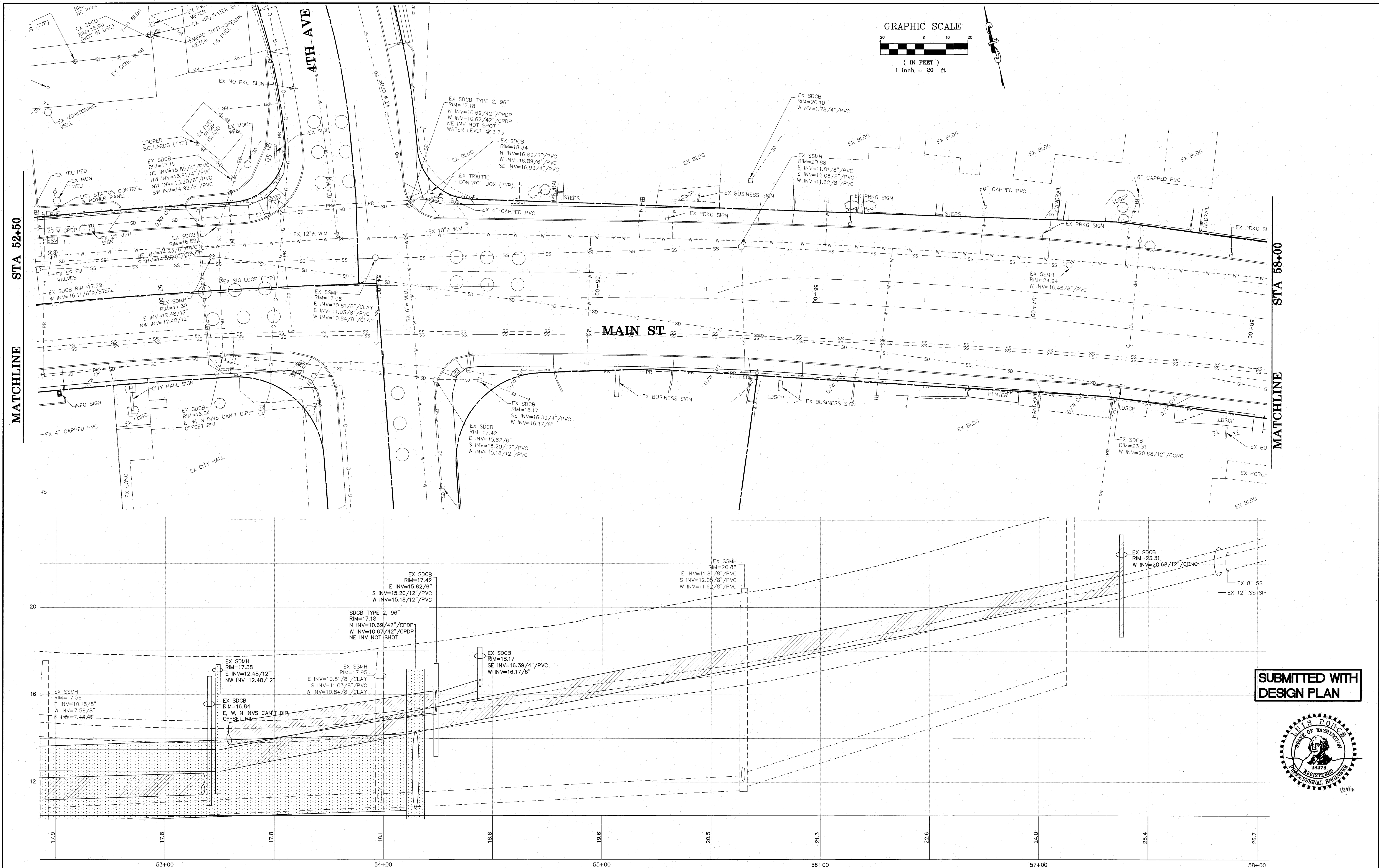
NO.	DATE	REVISION	BY

CITY OF FERDALE
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MAIN STREET
EXISTING CONDITIONS
STA 41+50 TO 47+50

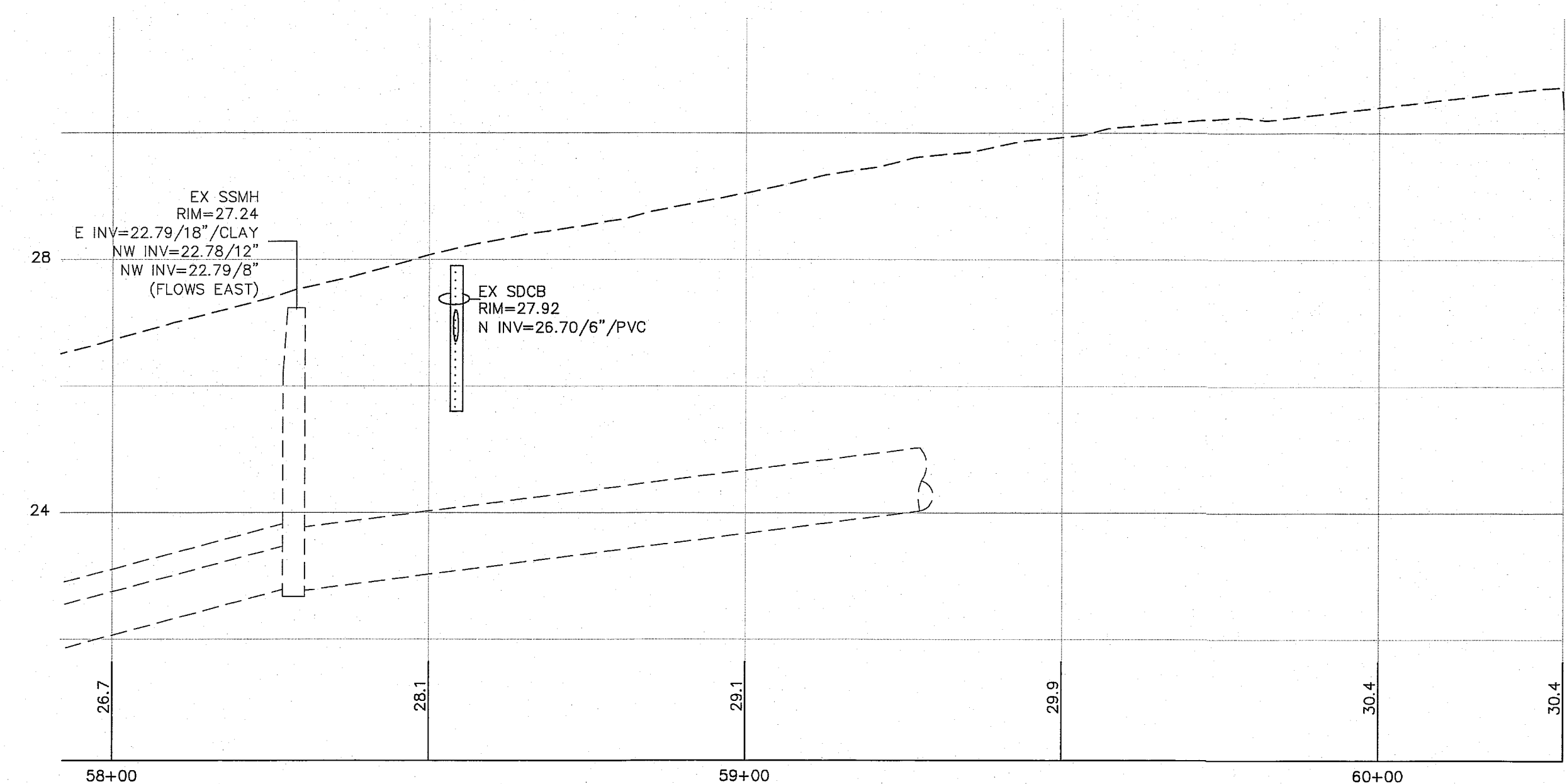
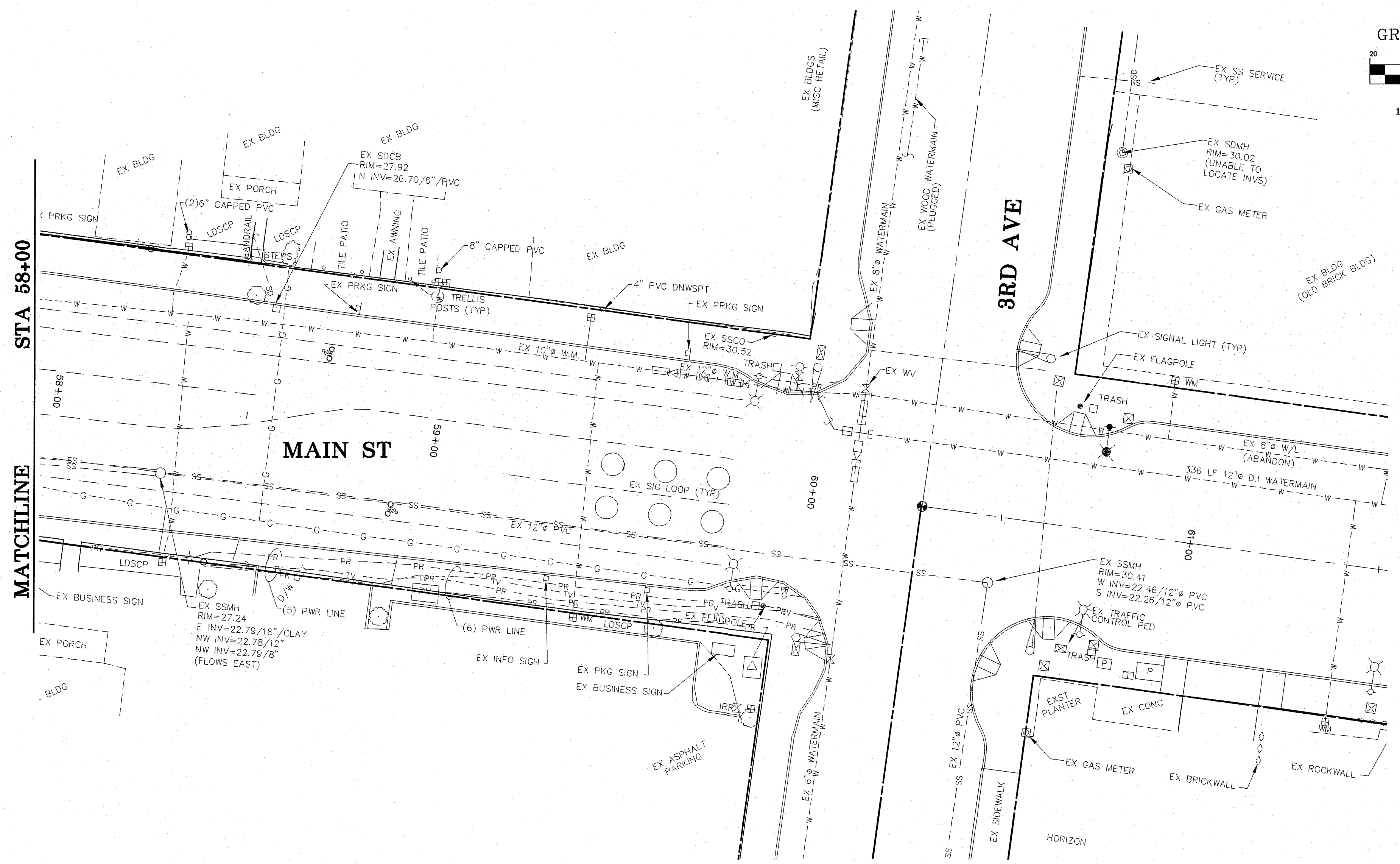
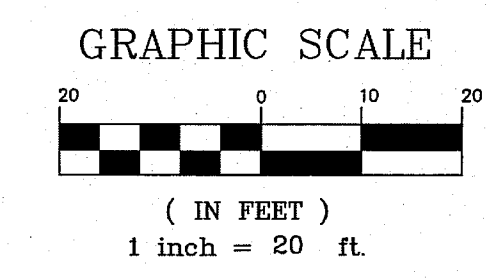
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SCALE H: 1"=20' V: 1"=2'	SHEET 4





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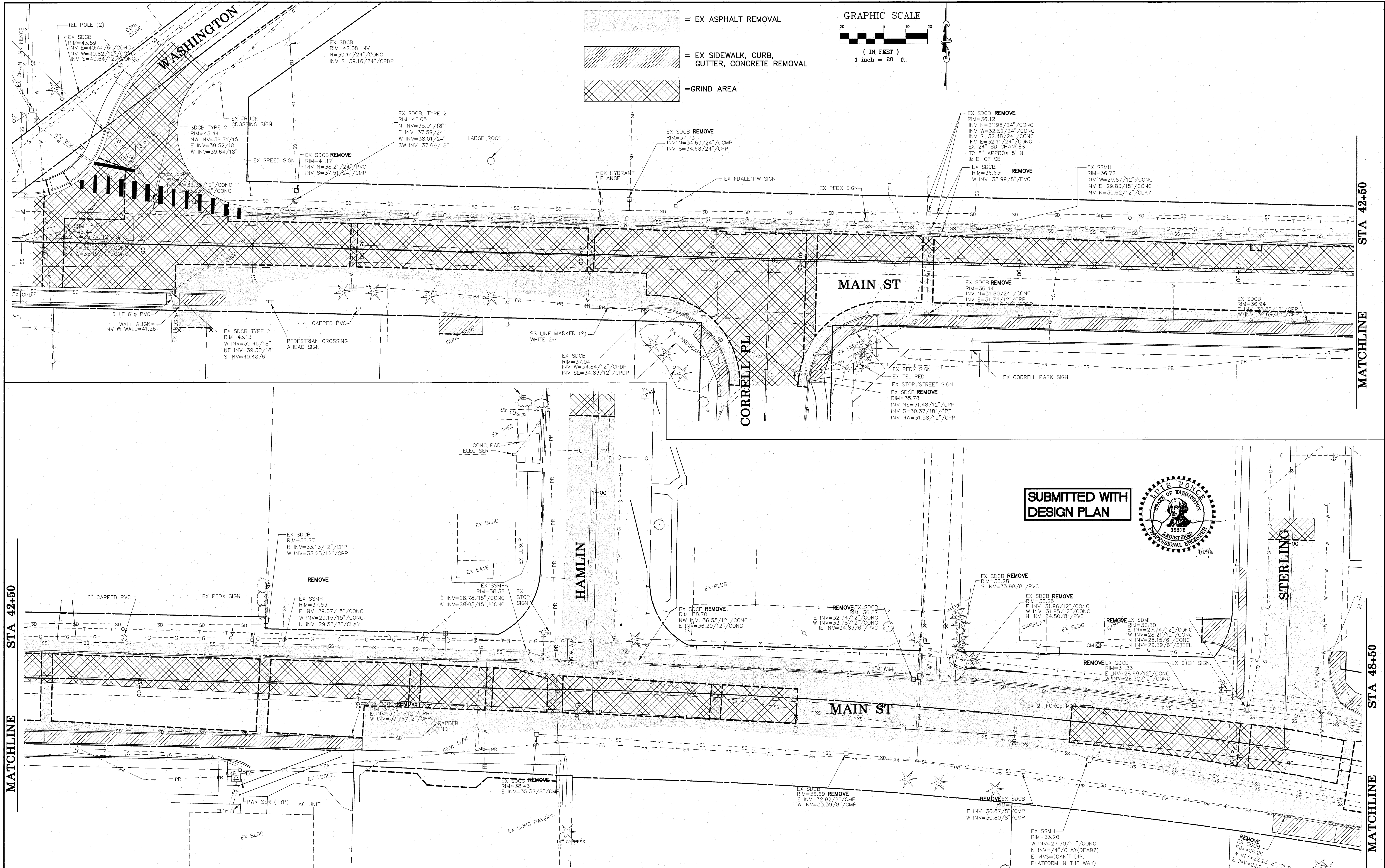
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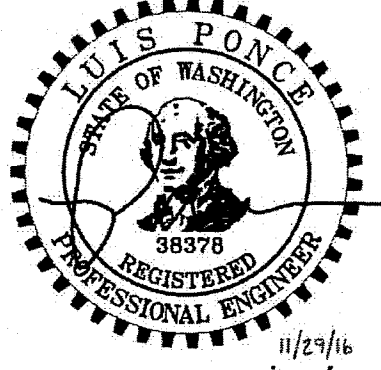
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MAIN STREET
EXISTING CONDITIONS
STA 58+00 TO 60+25

JOB# / DWG 08018 08018_SP1	DATE 7-21-10
SCALE H: 1"=20' V: 1"=2'	SHEET 7



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DRAWN BY LMC								SCALE H:1"=20' V:N/A	
CHECKED BY								SHEET 8	

00610.008 12/23/16 SH

GRAPHIC SCALE

(IN FEET)
1 inch = 20 ft.

= EX ASPHALT REMOVAL

= EX SIDEWALK, CURB,
GUTTER, CONCRETE REMOVAL

= GRIND AREA

STA 48+50

MATCHLINE

MAIN ST

STA 54+50

MATCHLINE

4TH AVE

STA 54+50

MATCHLINE

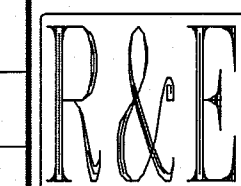
MAIN ST

3RD AVE

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1 8-5-10 ADDENDUM 1
NO. DATE REVISION

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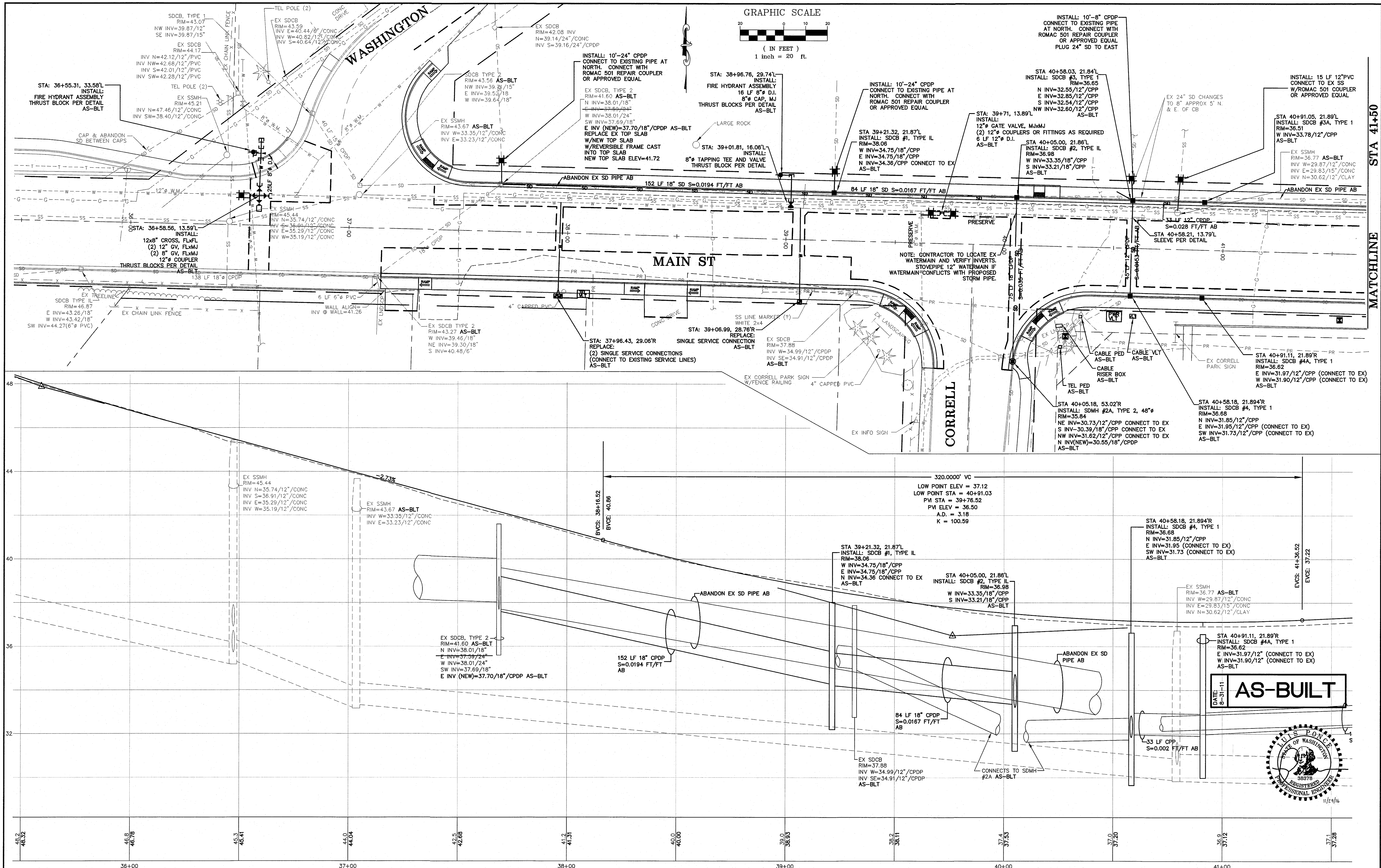
CITY OF FERDALE
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MAIN STREET
DEMOLITION PLAN
STA 48+50 TO 60+25

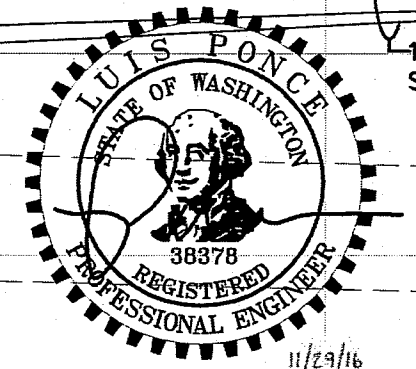
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08018 08018_SP1
SCALE
H: 1"=20' V: N/A

DATE
7-21-10
SHEET
9

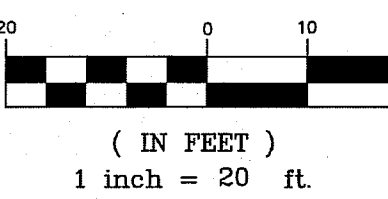
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DRAWN BY LMC									SCALE H: 1"=20' V: 1"=2'	SHEET 10
CHECKED BY										



GRAPHIC SCALE



F 12" PVC
X SS
COUPLER

STA 41+50
MATCHLINE

40

36

32

37.1
37.28

42+00

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NO.

DATE

REVISION

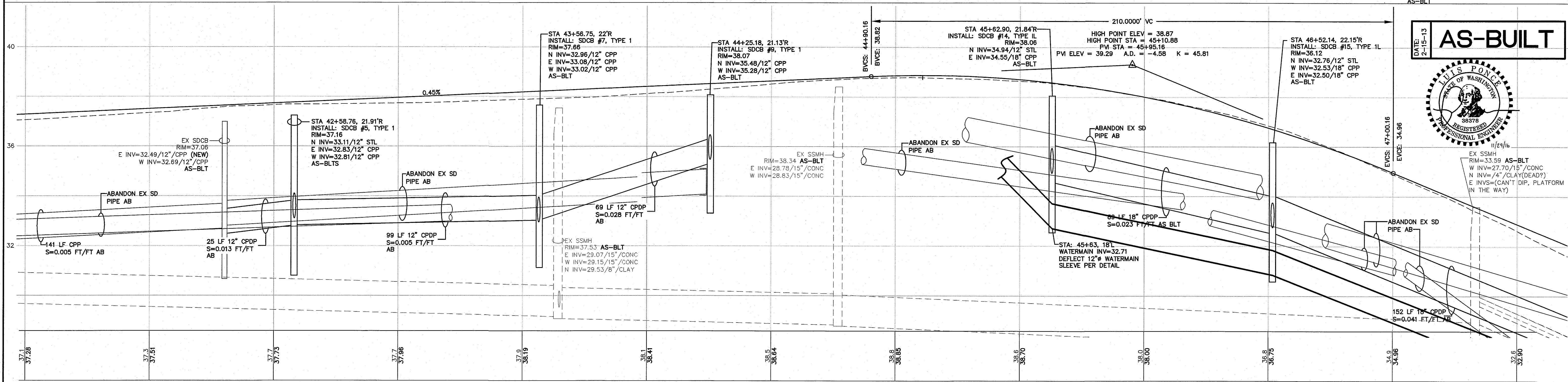
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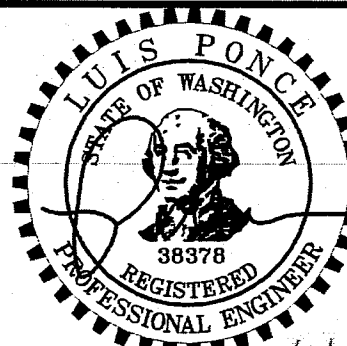
MAIN STREET
STREET IMPROVEMENTS
STA 41+50 TO 47+50

JOB# / DWG
08018 08018_SP1.AB
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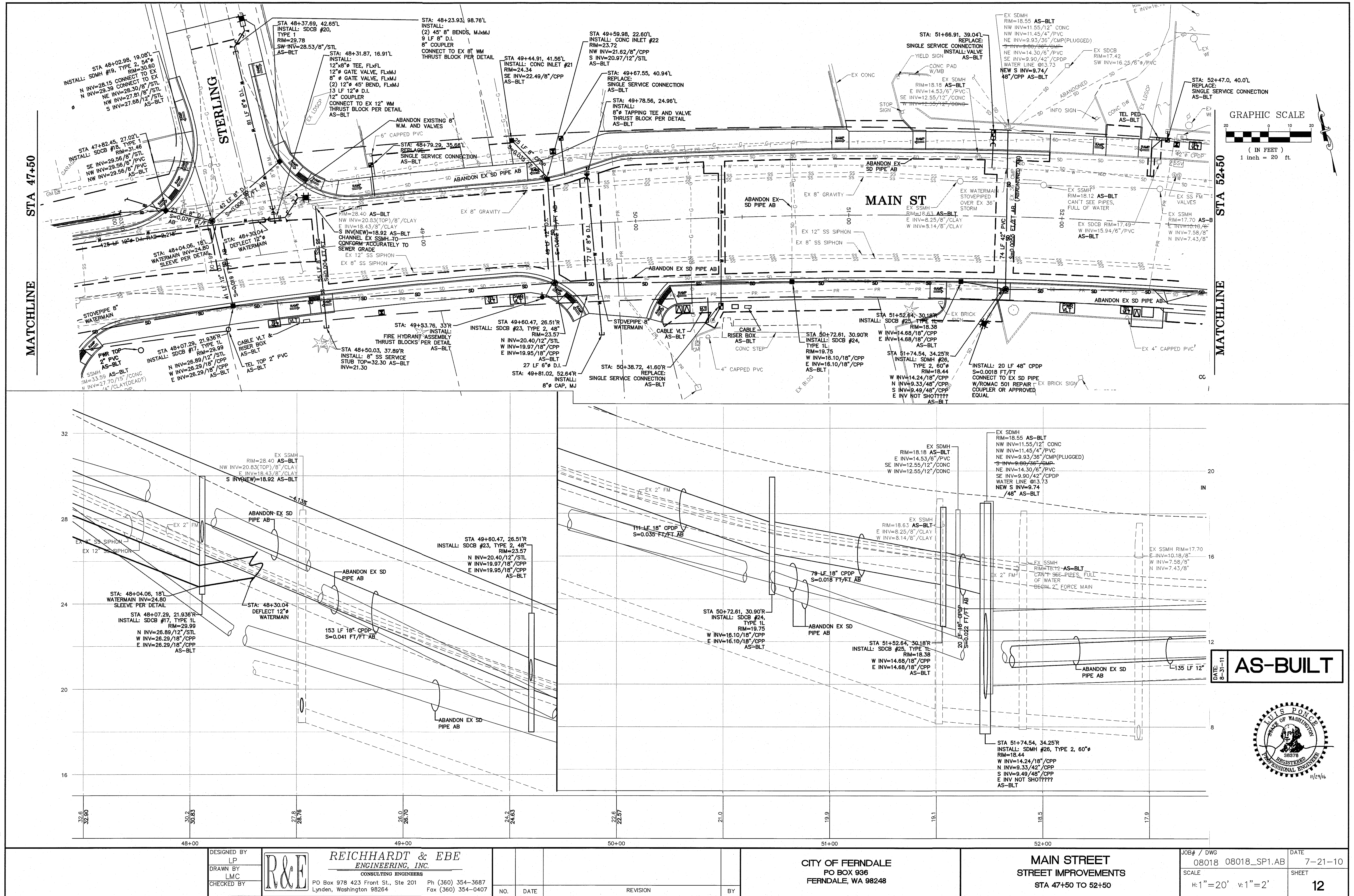
DATE
7-21-10
SHEET
11



AS-BUILT



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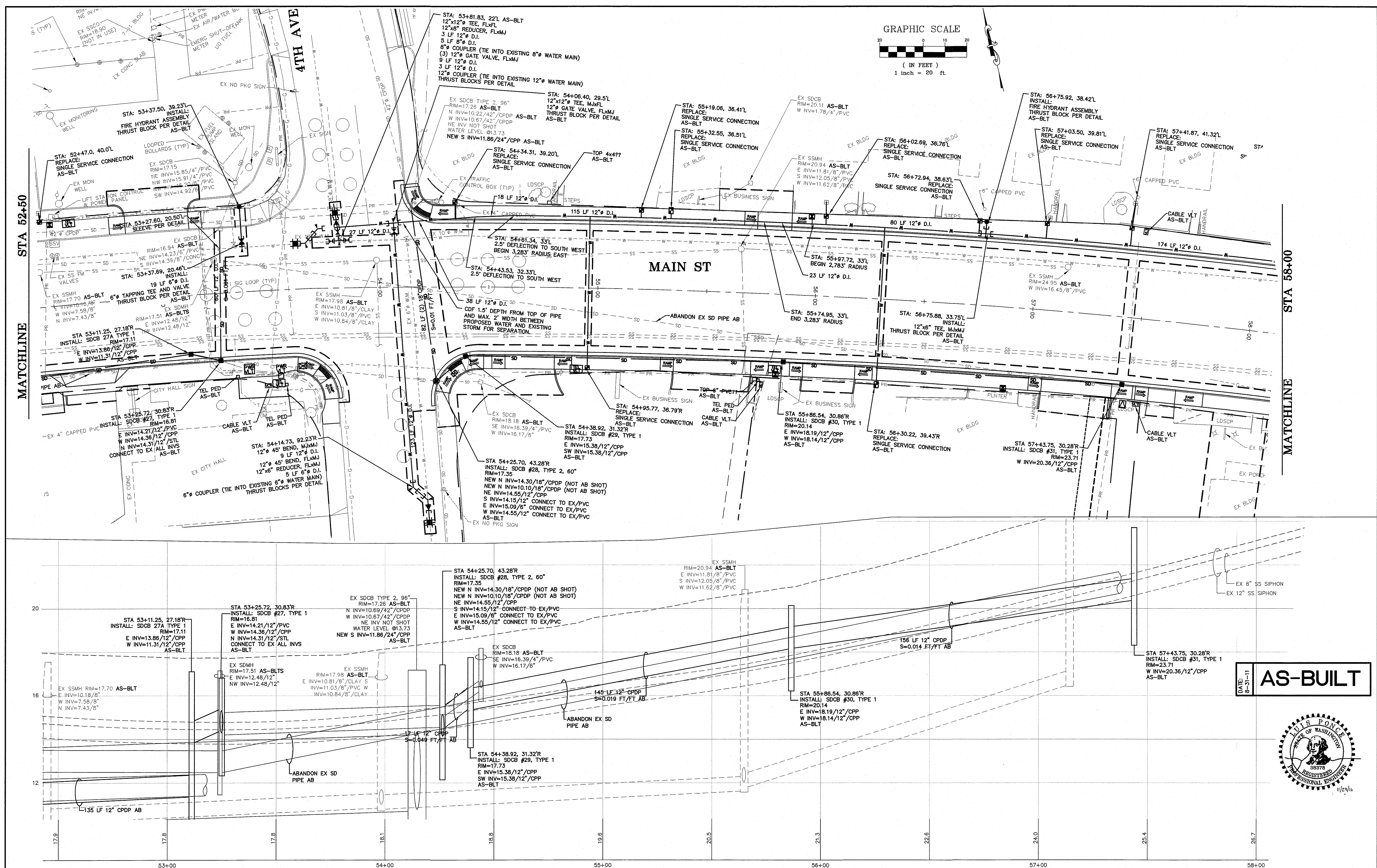
NO.	DATE	REVISION	BY

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MAIN STREET
STREET IMPROVEMENTS
STA 47+50 TO 52+50

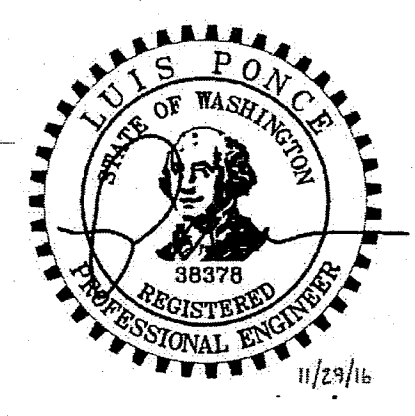
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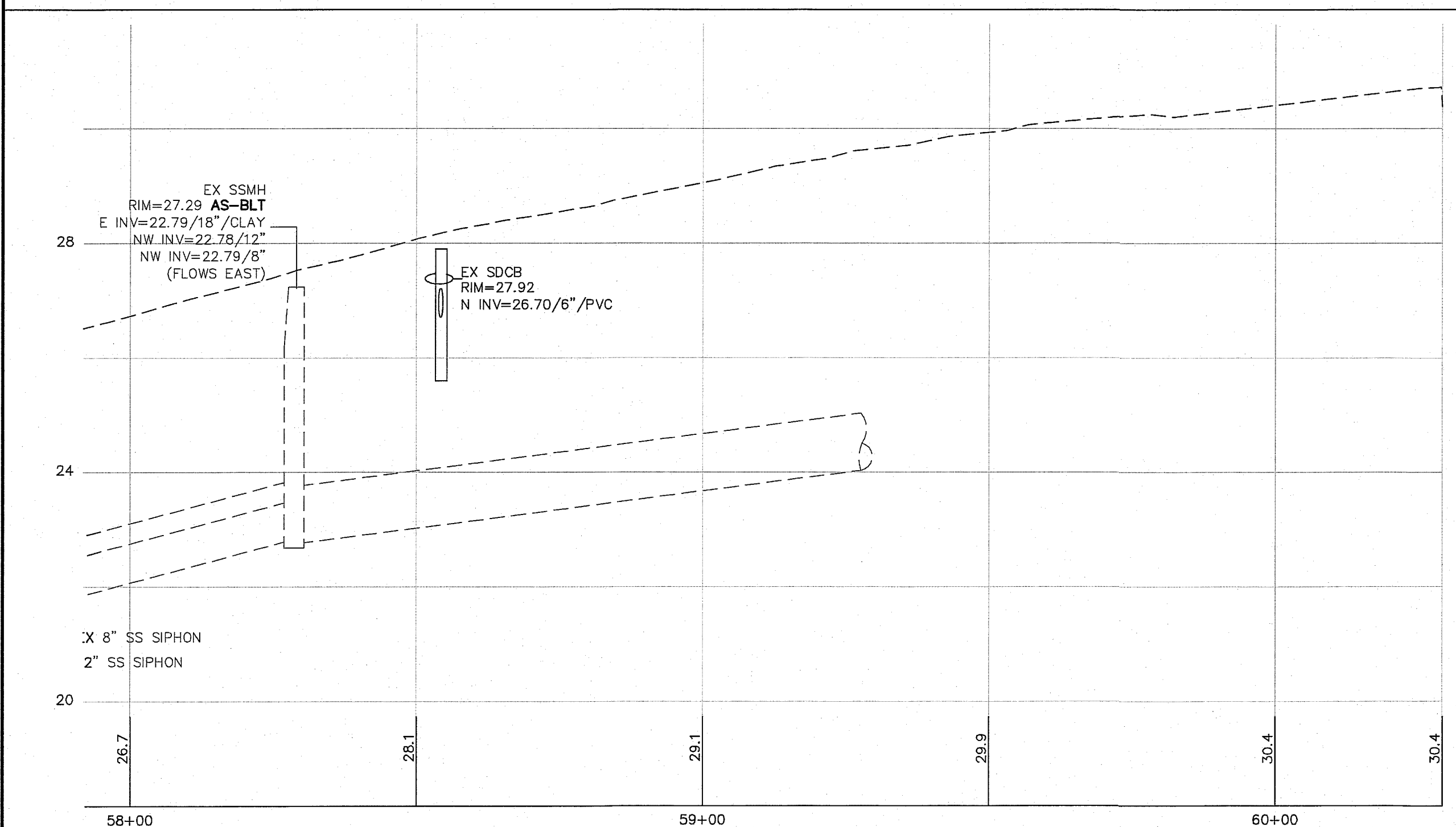
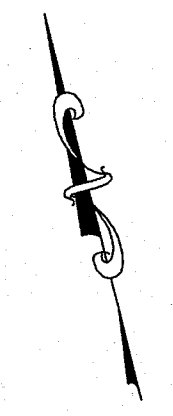
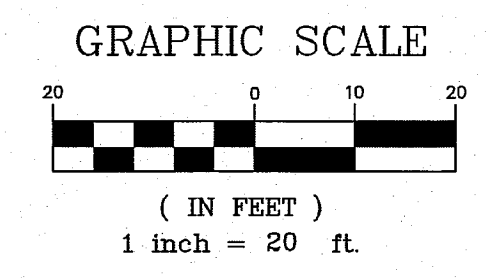
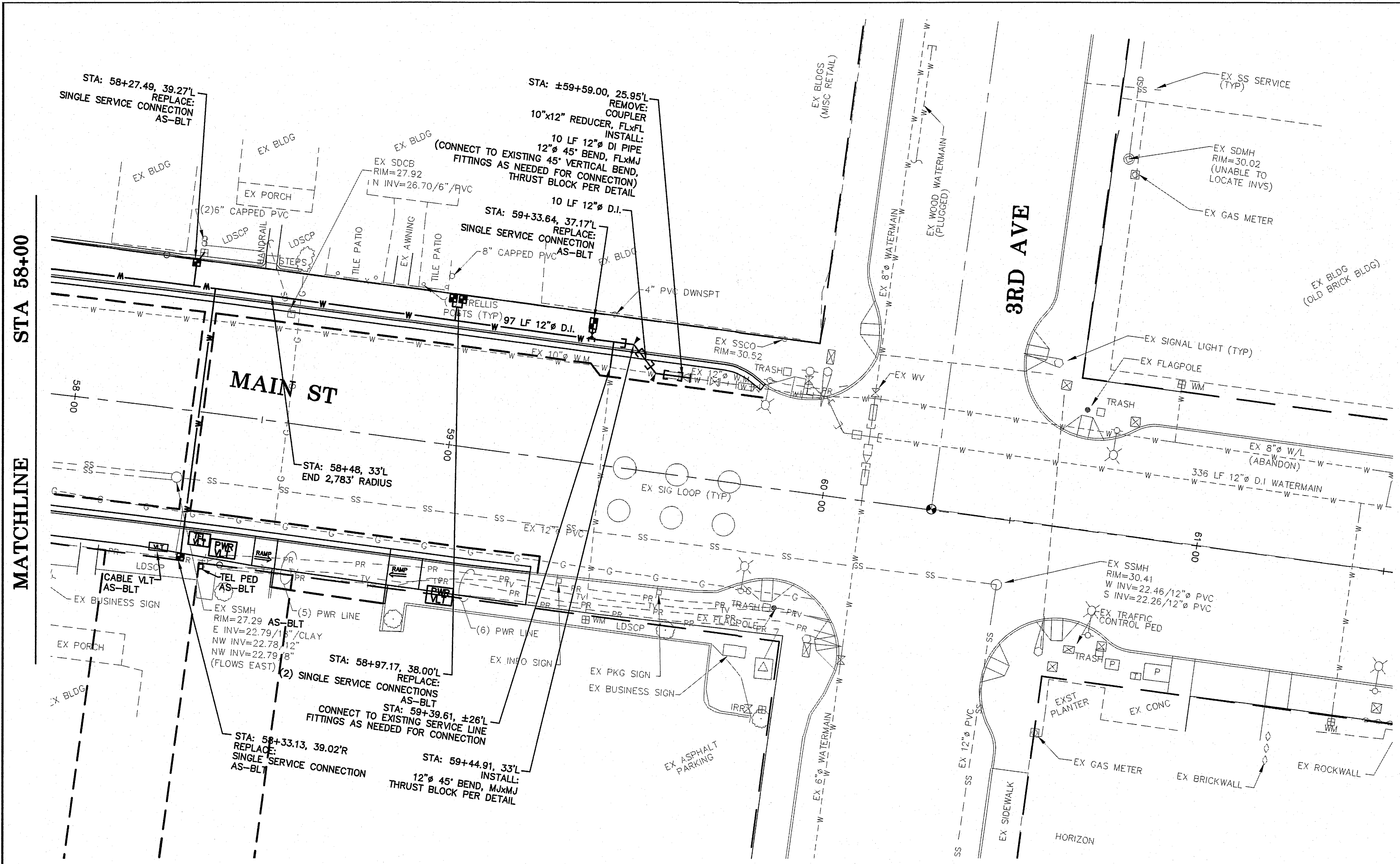
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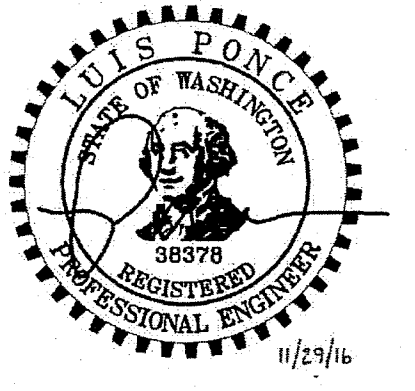
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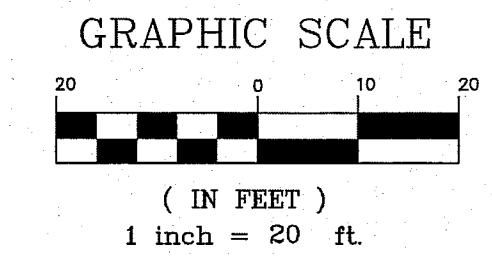
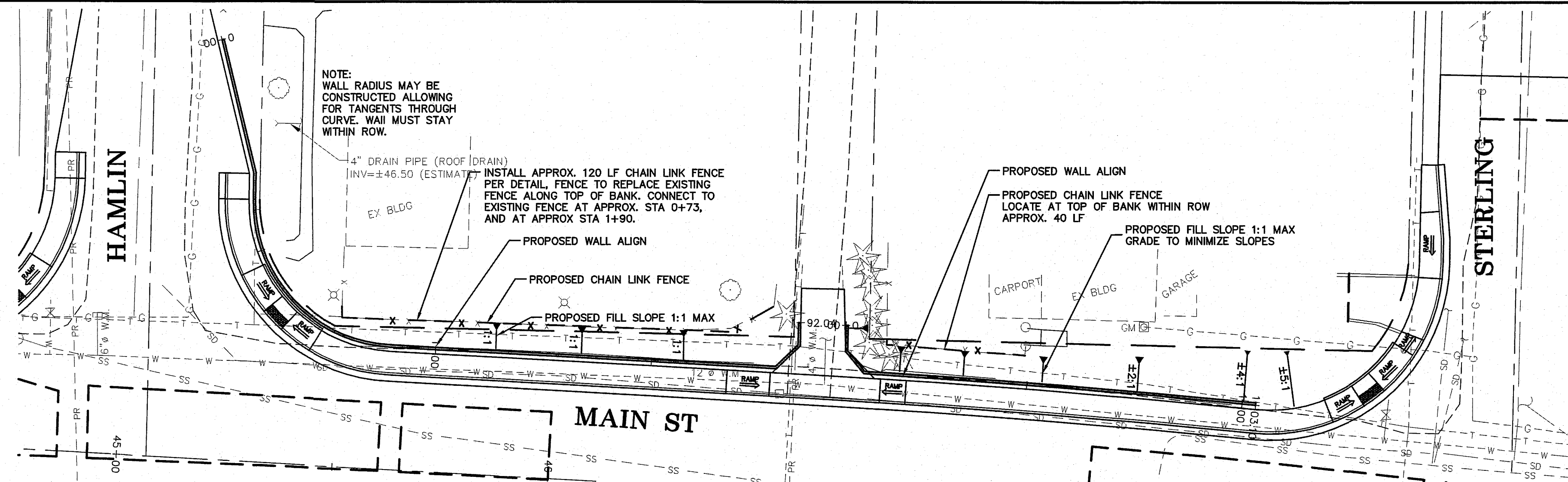
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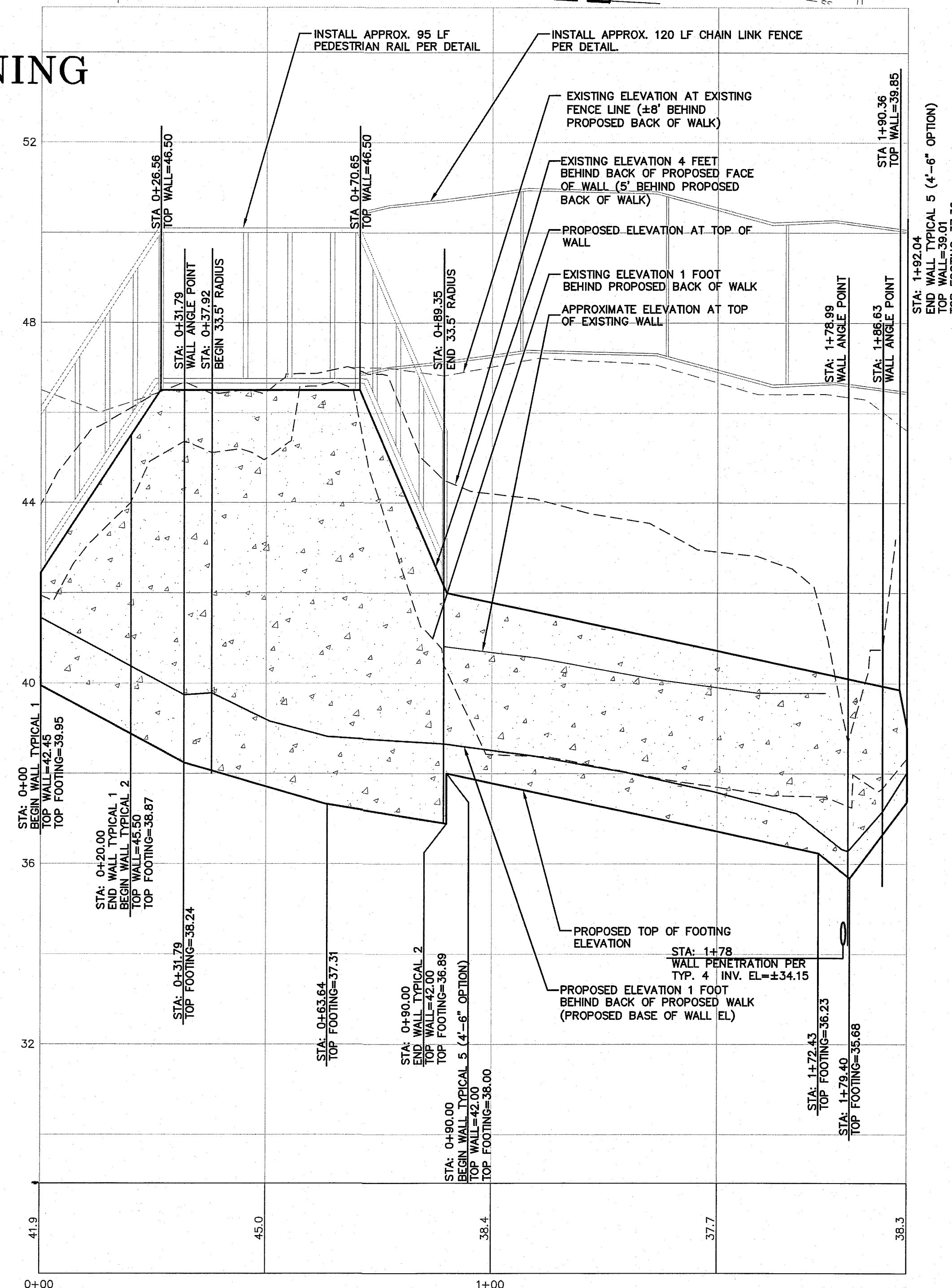
DESIGNED BY LP DRAWN BY LMC CHECKED BY		REICHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407	NO. DATE REVISION BY	CITY OF FERDALE PO BOX 936 FERDALE, WA 98248	MAIN STREET STREET IMPROVEMENTS STA 58+00 TO 60+25	JOB# / DWG 08018 08018_SP1.AB SCALE H:1"=20' V:1"=2'	DATE 7-21-10 SHEET 14
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DOLD. 014 12/28/16 st

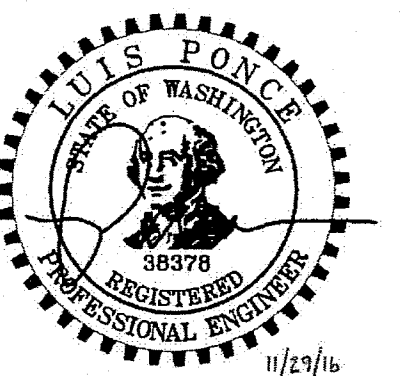
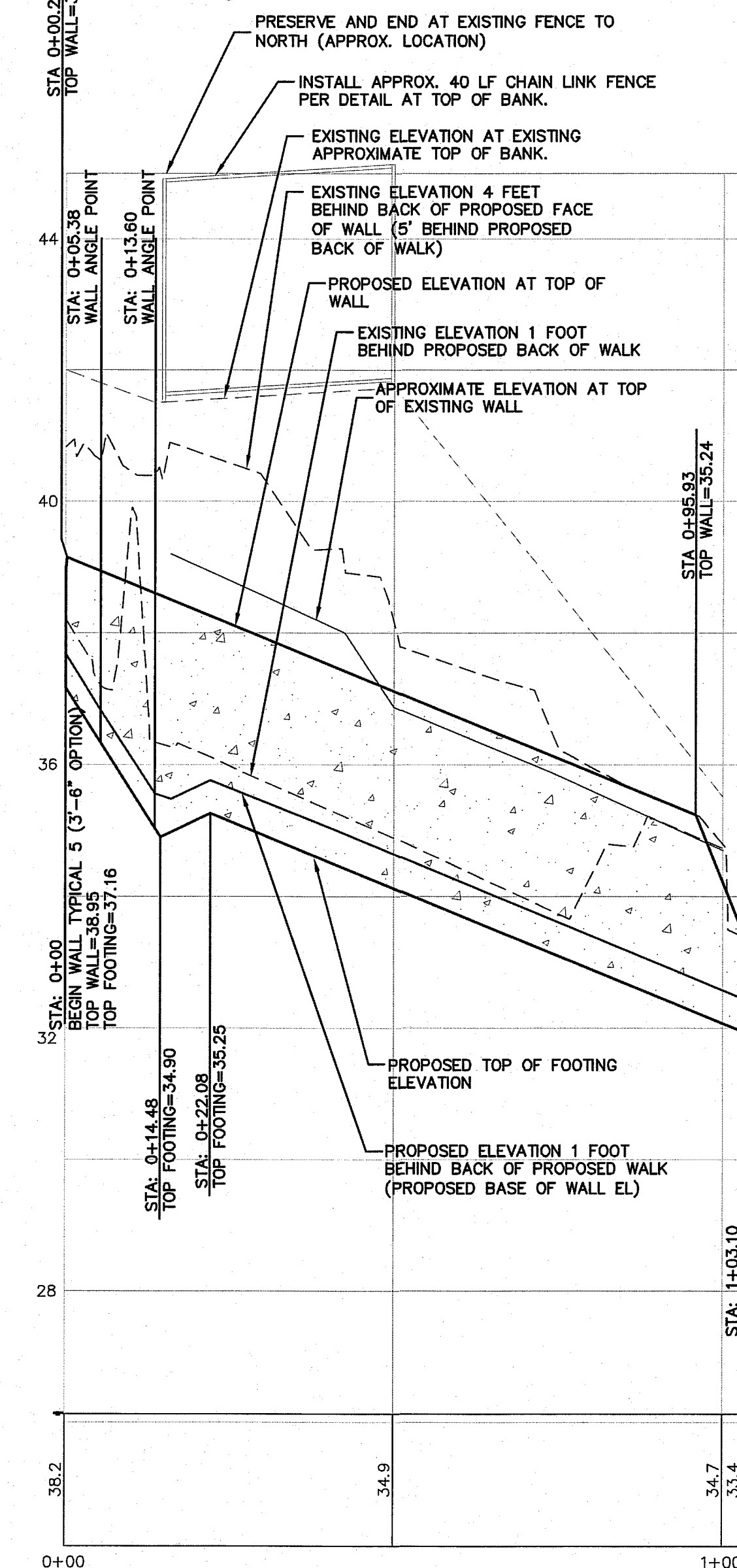
ALTERNATE A1



ALT A1 RETAINING WALL WEST



ALT A1 RETAINING WALL EAST



DESIGNED BY
LP
DRAWN BY
MLK
CHECKED BY



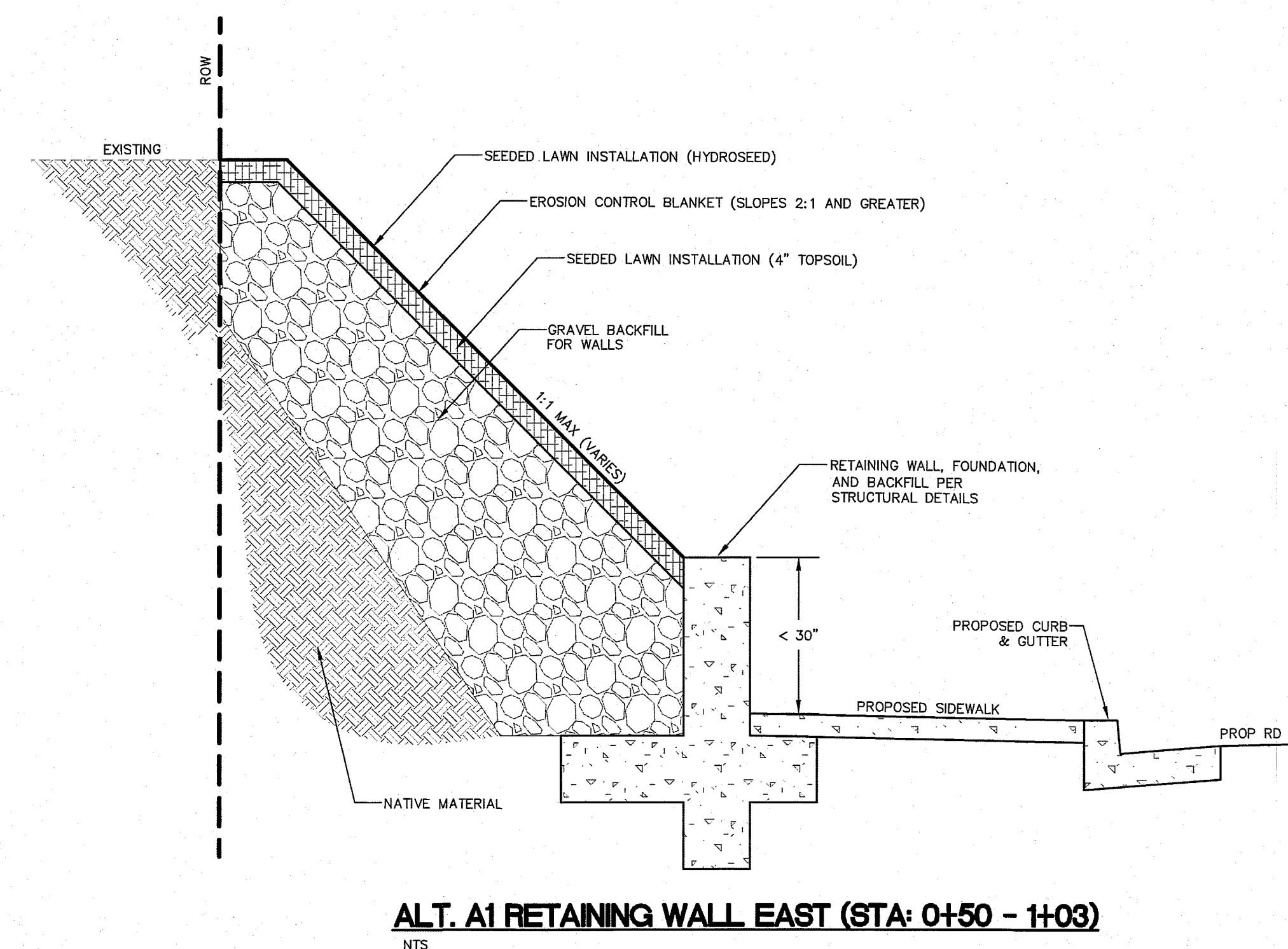
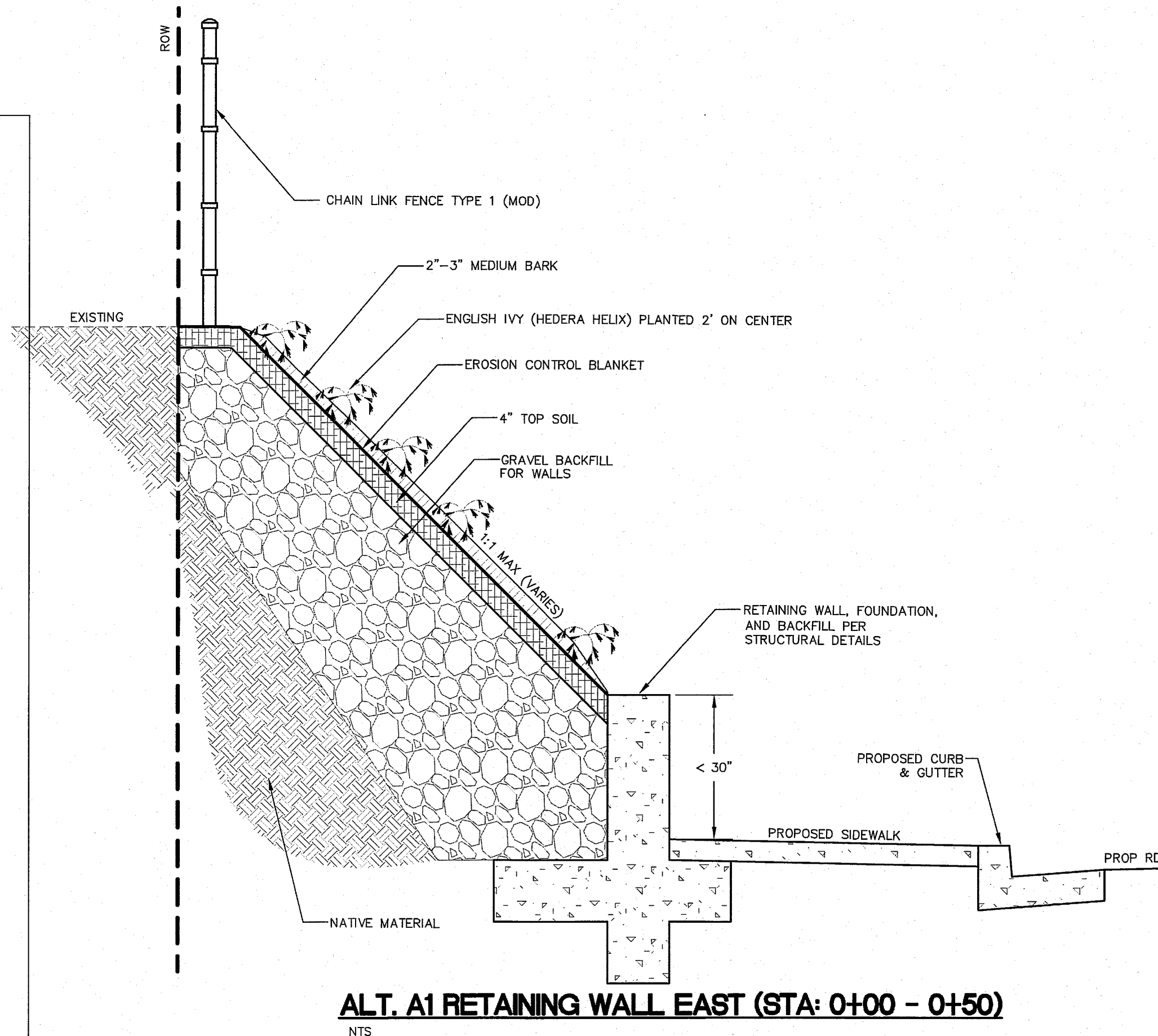
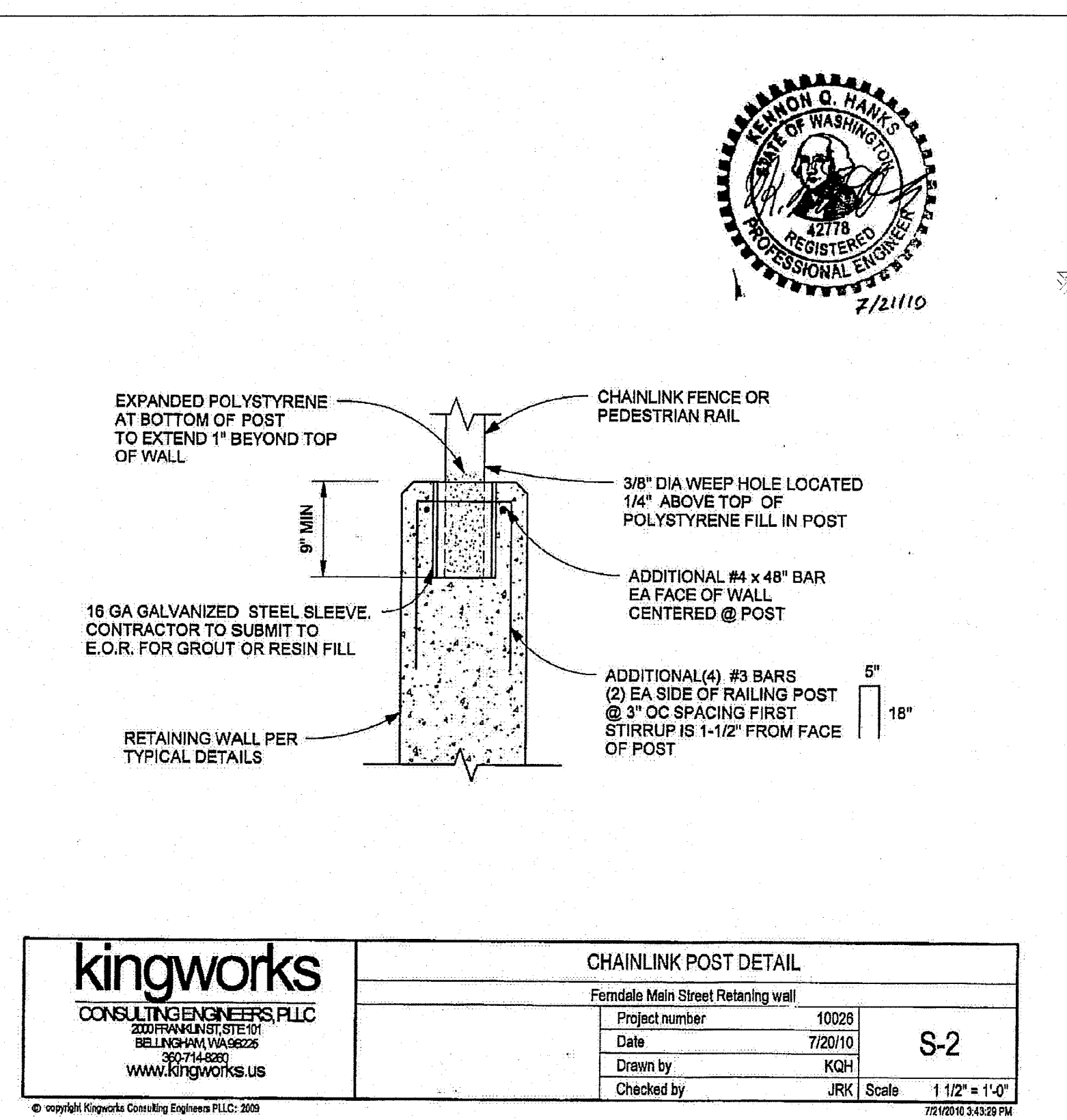
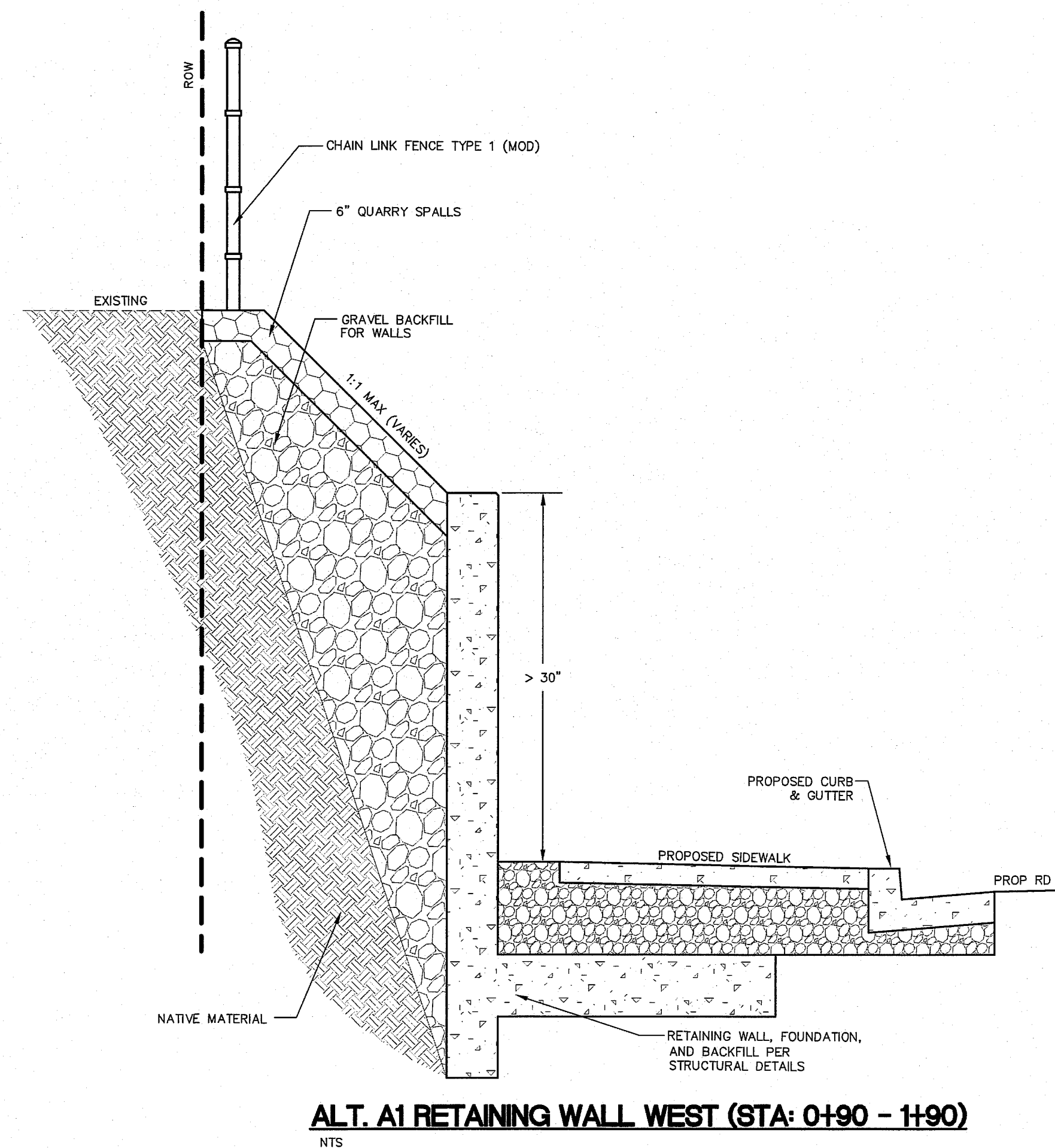
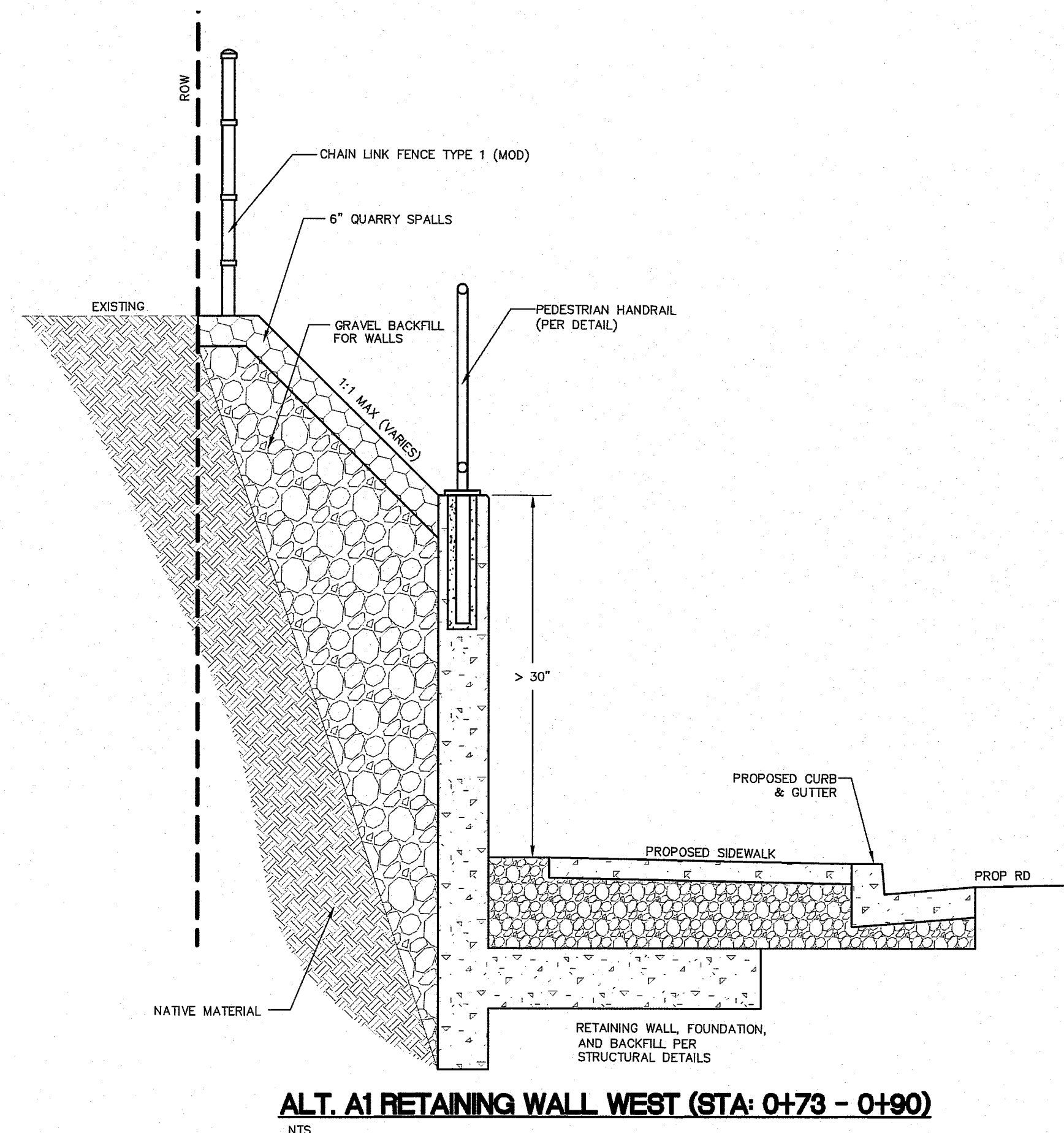
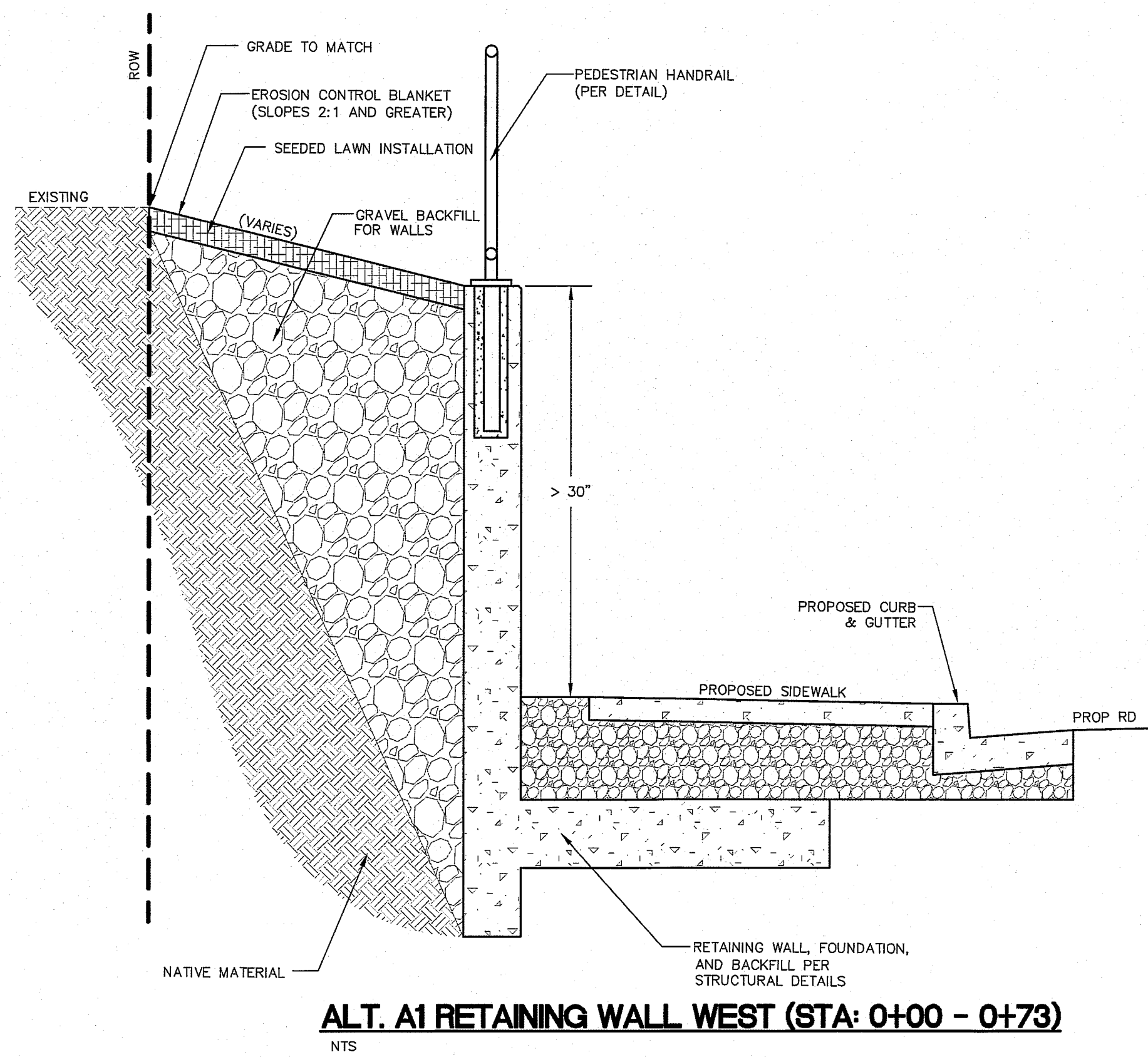
REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

NO.	DATE	REVISION	BY

CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
ADDENDUM 1
WALL PLAN AND PROFILE, ALT A1

JOB# / DWG 08018 08018_SP1.AB	DATE 8-5-10
SCALE H: 1" = 20' V: 1" = 2'	SHEET 15

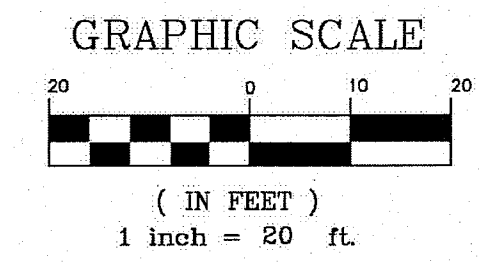
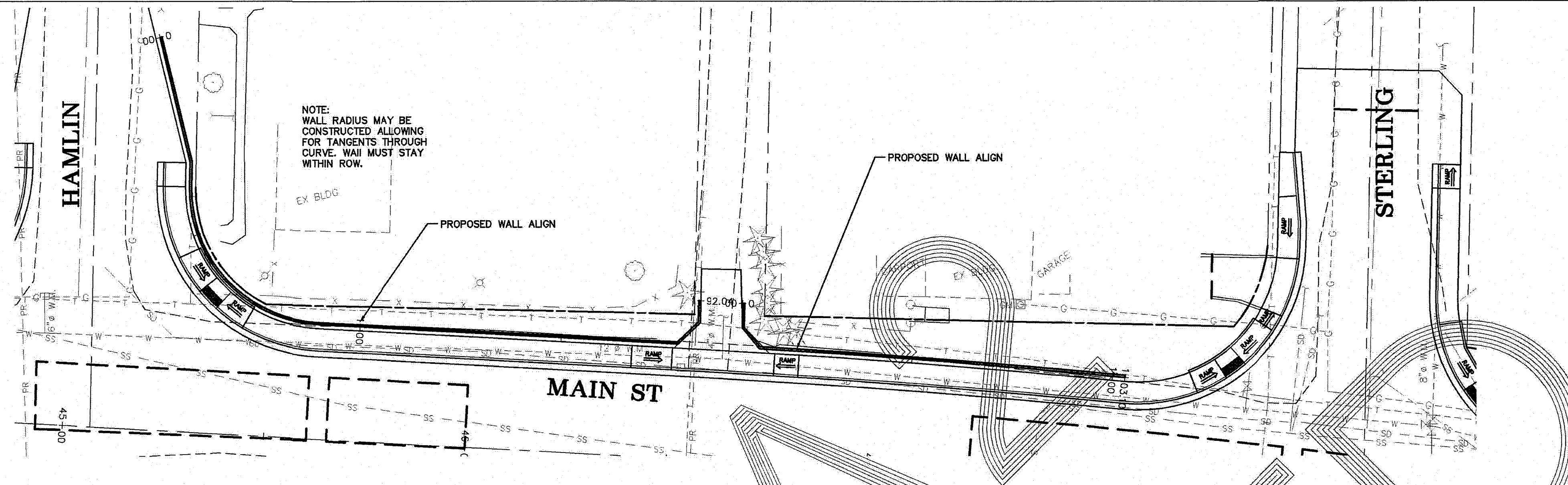


ALTERNATE A1

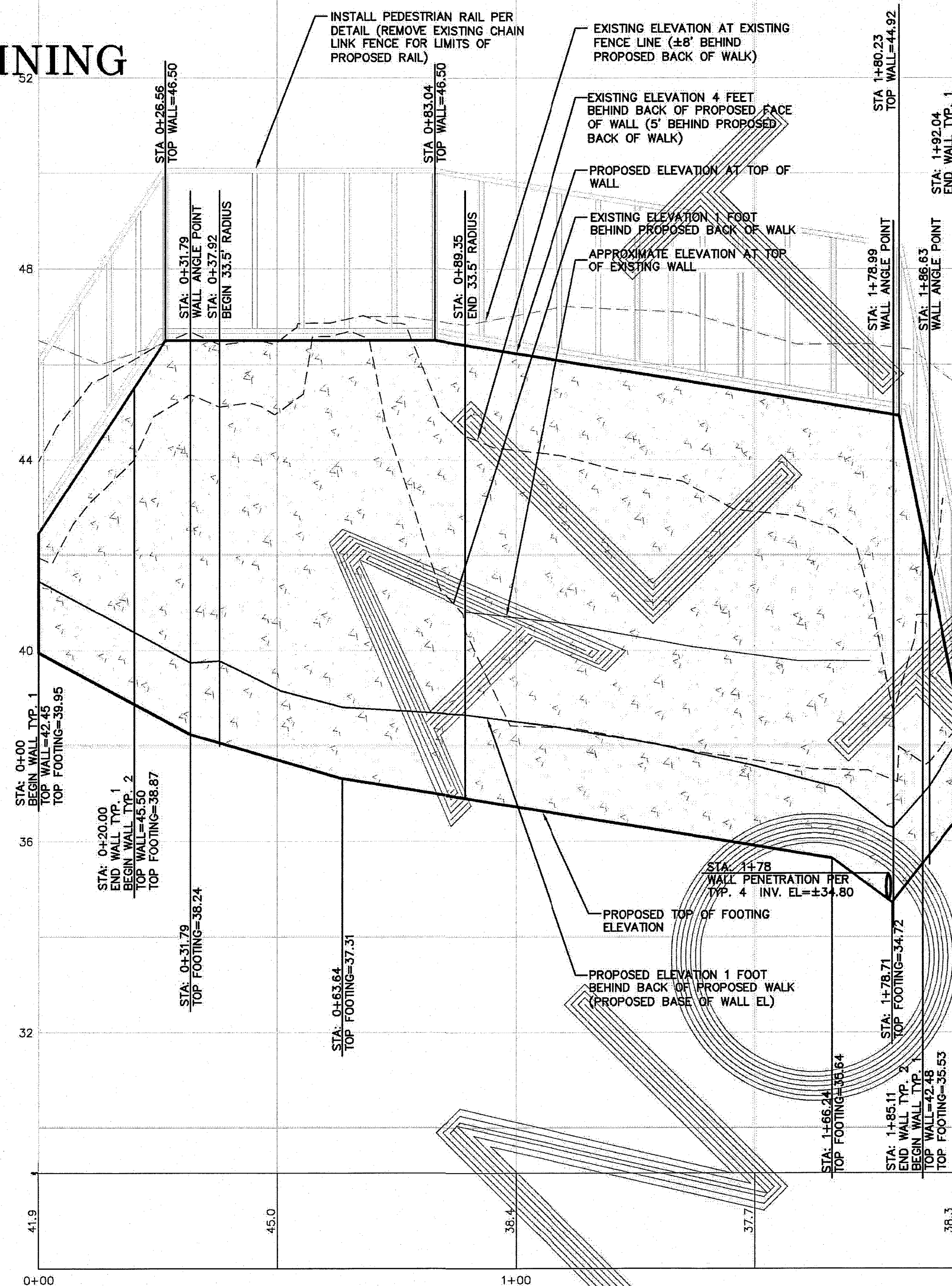
DESIGNED BY LP	REICHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407	CITY OF FERDALE PO BOX 936 FERDALE, WA 98248	MAIN STREET ADDENDUM 1 WALL SECTIONS, ALT A1	JOB# / DWG 08018 08018_SP1.AB SCALE H:n/a V:n/a	DATE 8-5-10 SHEET 16
DRAWN BY MLK					
CHECKED BY					

08018.016 12/23/14

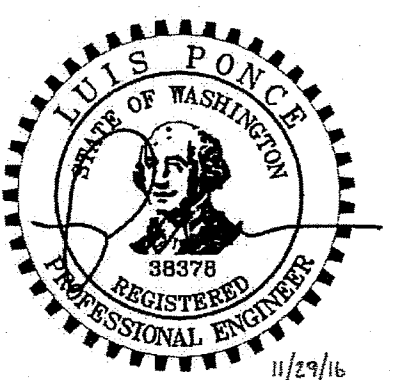
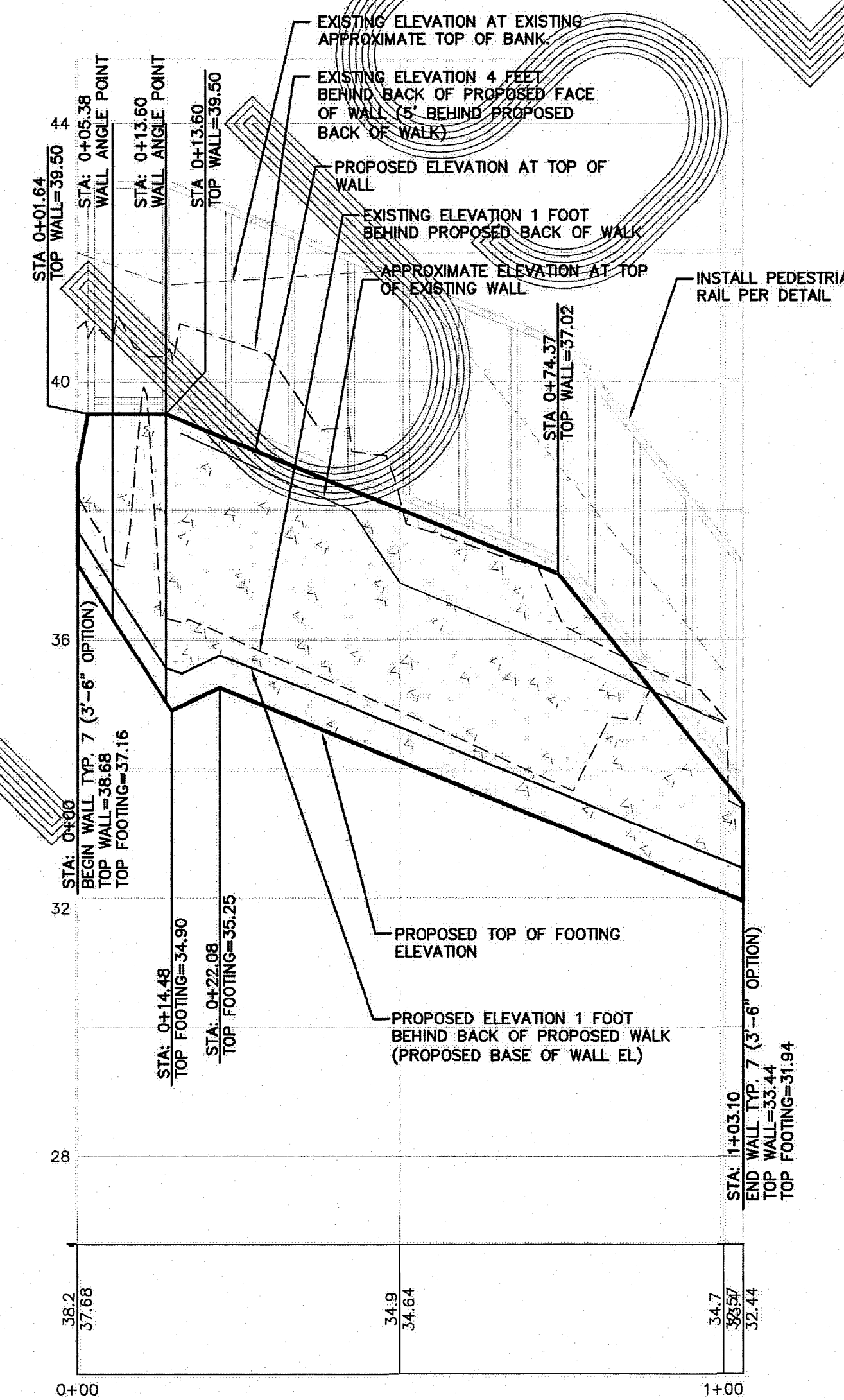
ALTERNATE A2



ALT A2 RETAINING WALL WEST



ALT A2 RETAINING WALL EAST



**SUBMITTED WITH
DESIGN PLAN**

DESIGNED BY
LP
DRAWN BY
MLK
CHECKED BY
MLK

REICHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
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CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

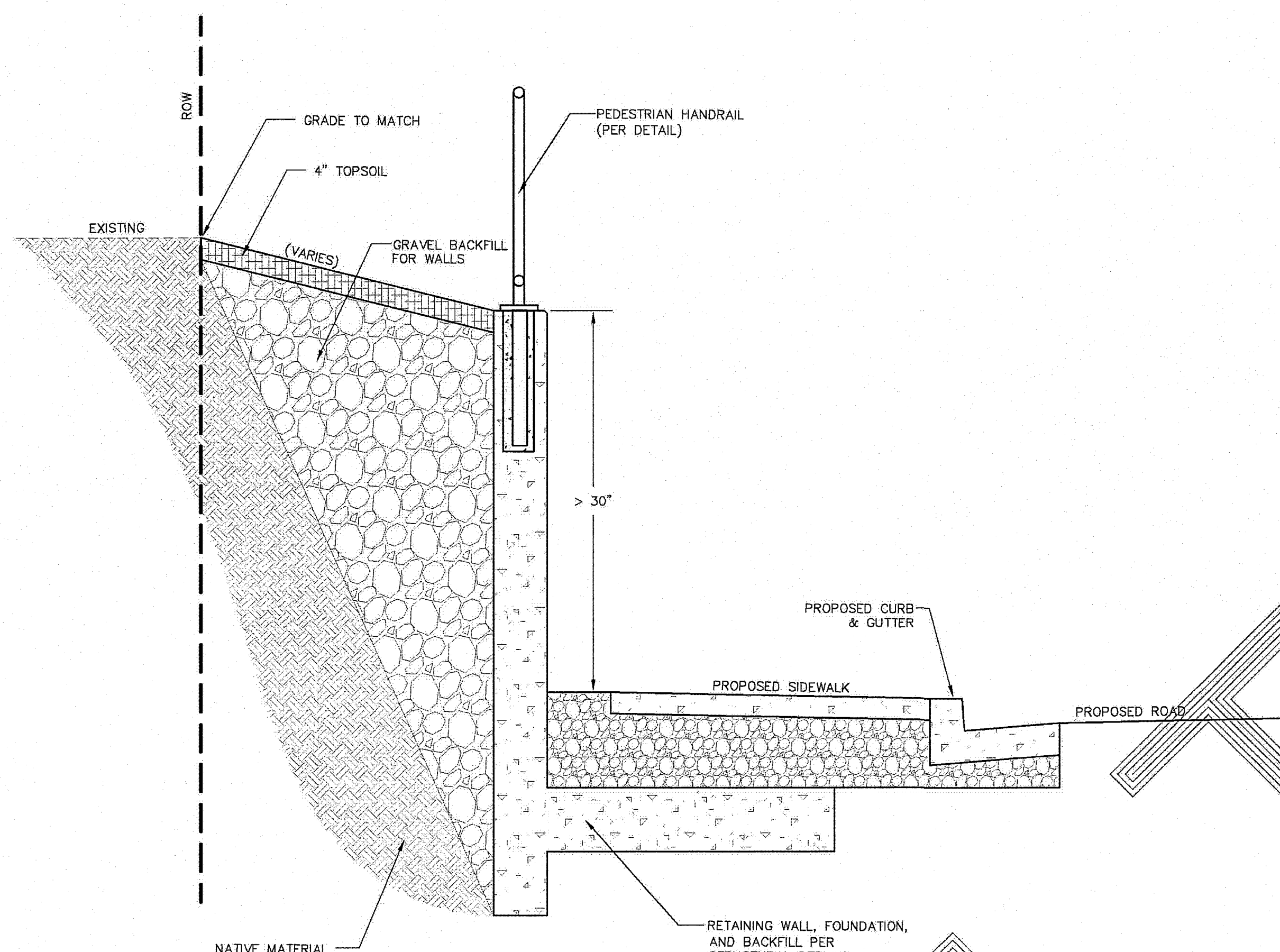
**MAIN STREET
STREET IMPROVEMENTS**
WALL PLAN AND PROFILE, ALT A2

JOB# / DWG
08018 08018_SP1.AB
SCALE
H: 1"=20' V: 1"=2'

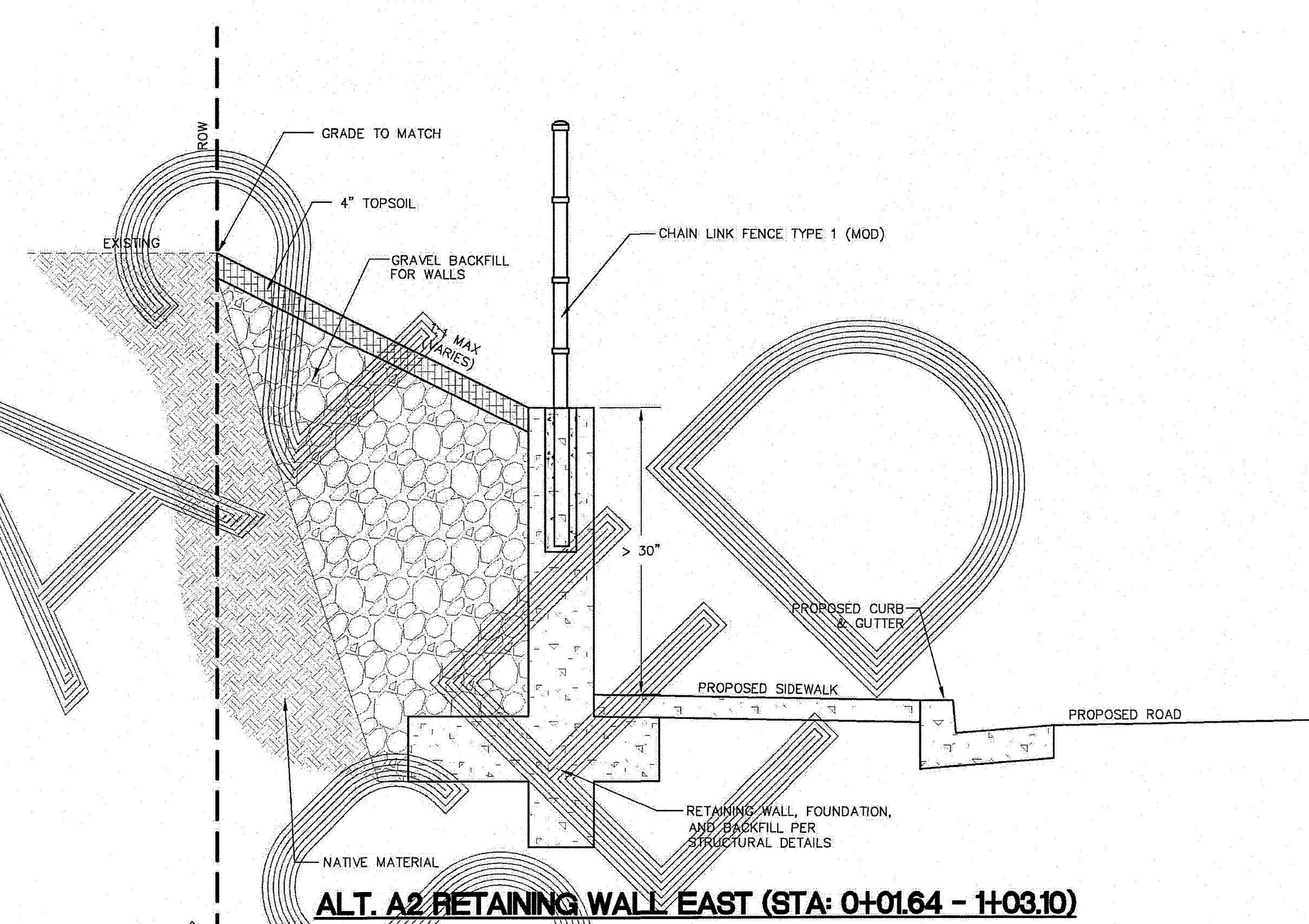
DATE
7-21-10
SHEET
17

00610.017 12/23/16 SH

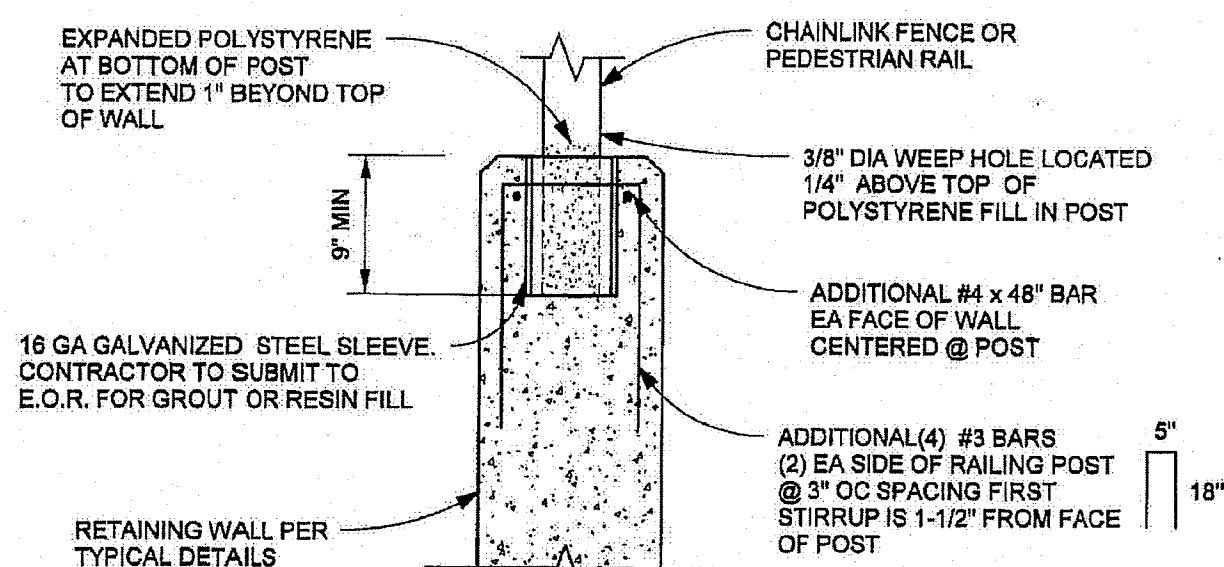
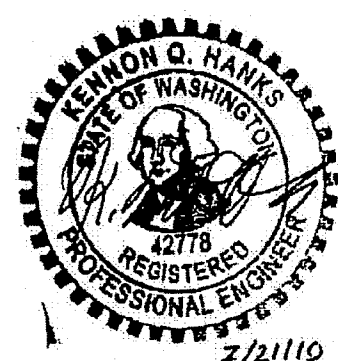
00610.018 12/23/16 st



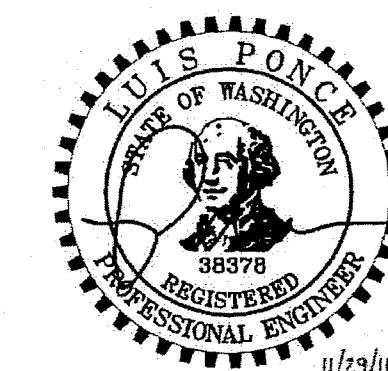
ALT. A2 RETAINING WALL WEST (STA: 0+00 - 1+92)
NTS



ALT. A2 RETAINING WALL EAST (STA: 0+01.64 - 1+03.10)
NTS



SUBMITTED WITH
DESIGN PLAN



ALTERNATE A2

kingworks
CONSULTING ENGINEERS PLLC
2007 KANSAS ST. STE. 10
SEATTLE, WA 98104
206.714.4200
www.kingworks.us

CHAINLINK POST DETAIL

Ferndale Main Street Retaining Wall
Project number 10028
Date 7/20/10
Drawn by KQH
Checked by JRK Scale 1 1/2\"/>

S-2

DESIGNED BY
LP
DRAWN BY
MLK
CHECKED BY

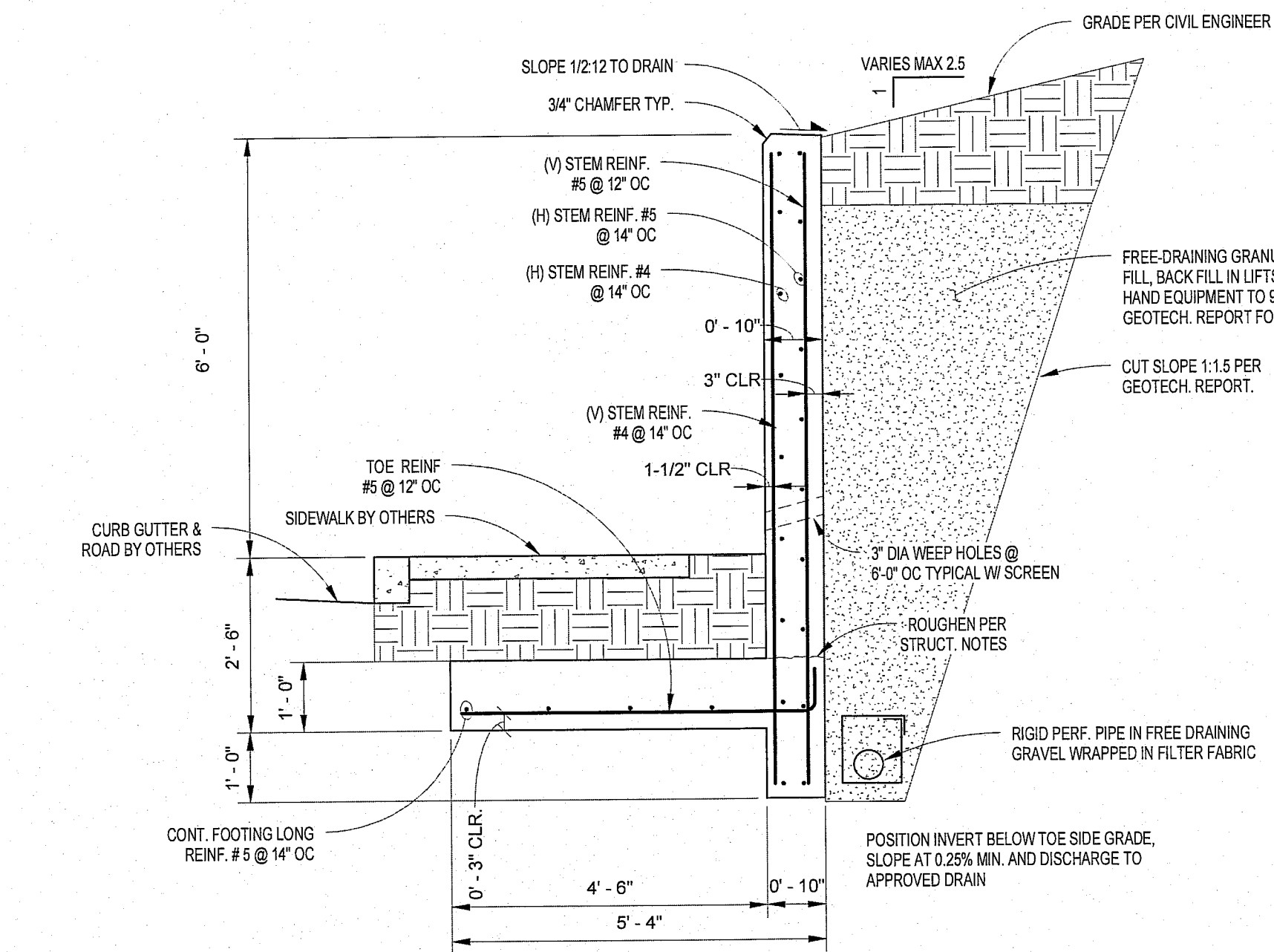


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CITY OF FERNDALE
PO BOX 936
FERNDALE, WA 98248

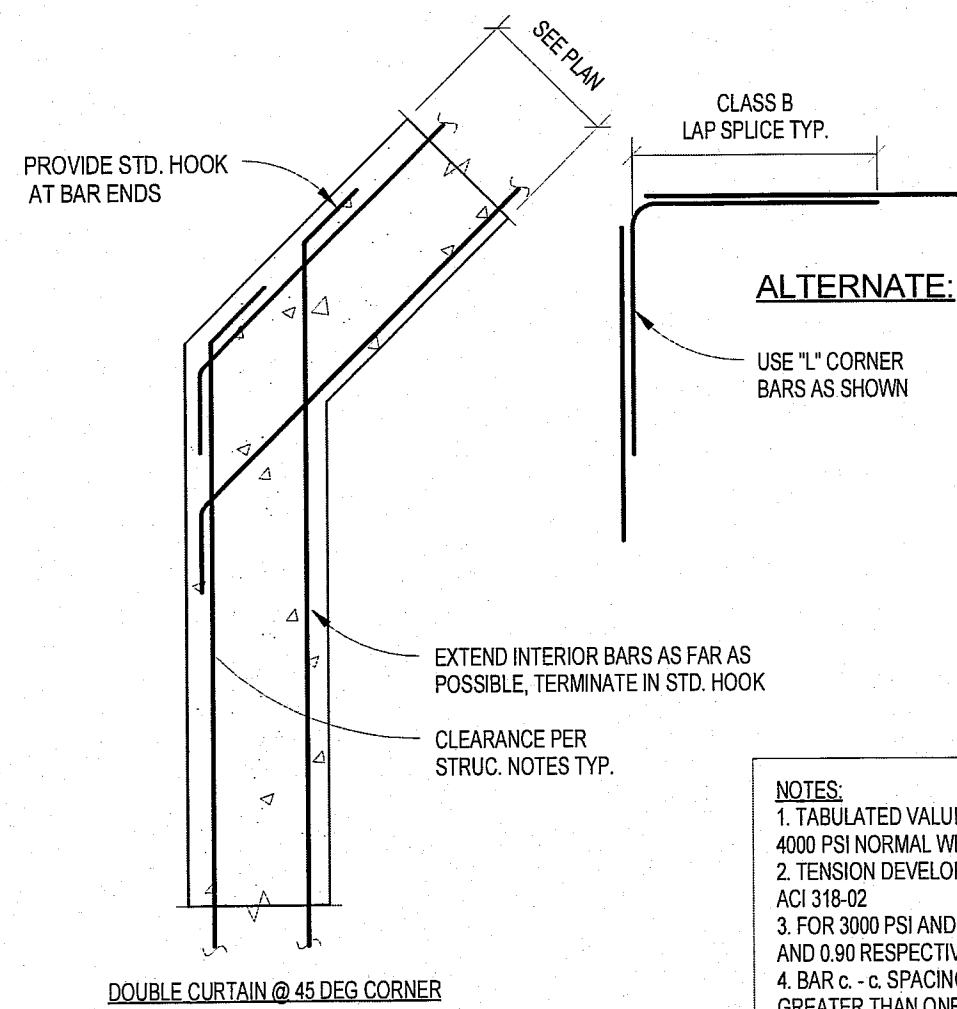
MAIN STREET
STREET IMPROVEMENTS
WALL SECTIONS, ALT A2

JOB# / DWG	08018 08018_SP1.AB	DATE	7-21-10
SCALE	h:n/a v:n/a	SHEET	18



NOTE: FOOTING SHALL BE PLACED ON A 4:1 SLOPE MAXIMUM OTHERWISE NOTIFY E.O.R. FOR STEP FOOTING DETAIL

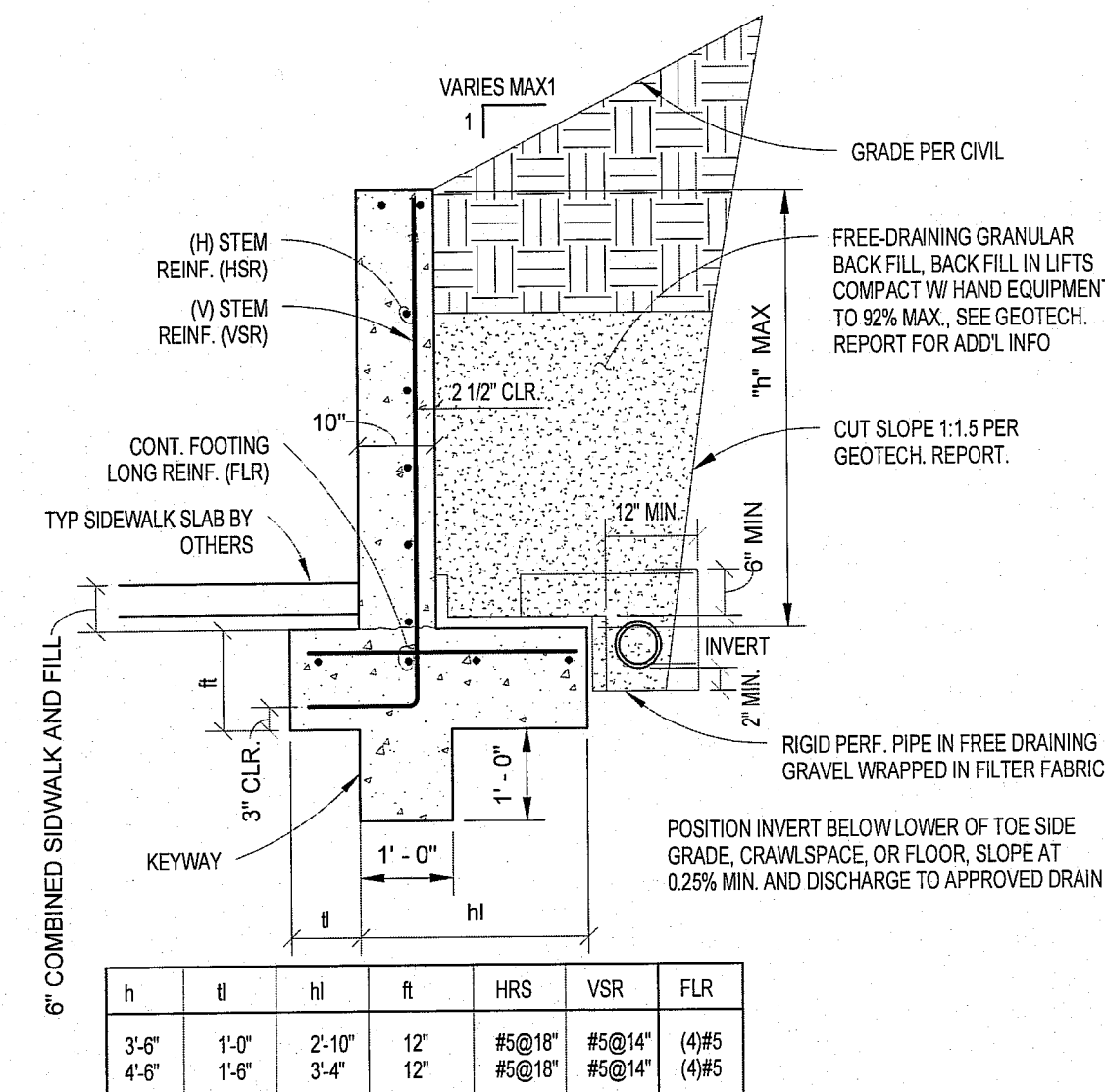
1 TYPICAL RETAINING WALL 6'-0" HEIGHT
N.T.S.



REINFORCEMENT DEVELOPMENT / LAP SPICE LENGTHS			
BAR SIZE	TOP	OTHER	
#3	24 IN.	19 IN.	
#4	32	25	
#5	41	31	
#6	48	37	

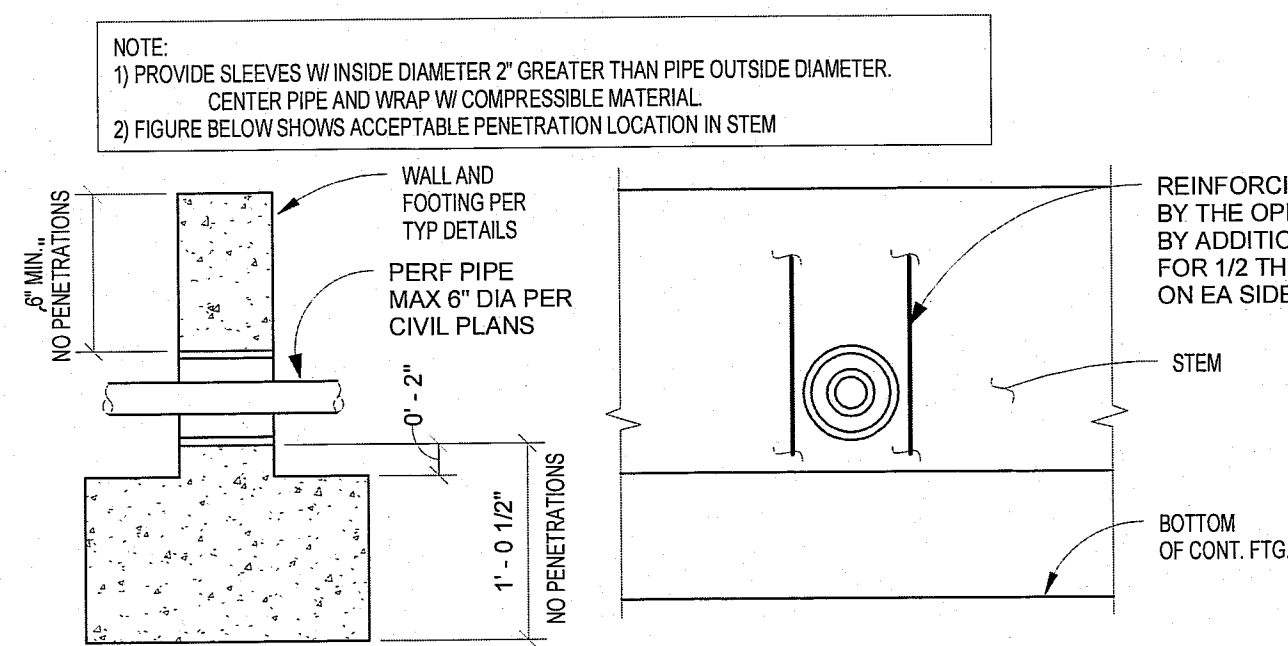
NOTES:
1. TABULATED VALUES ARE BASED ON GRADE 60 UNCOATED REINFORCING BARS AND 4000 PSI NORMAL WEIGHT CONCRETE. LENGTHS ARE IN INCHES.
2. TENSION DEVELOPMENT LENGTH AND LAP SPICE LENGTHS ARE CALCULATED PER ACI 318-02
3. FOR 3000 PSI AND 5000 PSI CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.16 AND 0.90 RESPECTIVELY.
4. BAR c - c. SPACING MUST BE GREATER THAN TWICE THE BAR DIAMETER AND COVER GREATER THAN ONE BAR DIAMETER.
5. "TOP" BARS ARE DEFINED AS HORIZONTAL BARS WITH MORE THAN 12 INCHES OF FRESH CONCRETE CAST BELOW THE BARS.
6. FOR LIGHTWEIGHT AGGREGATE CONCRETE, MULTIPLY THE TABULATED VALUES BY 1.3.
7. FOR EPOXY COATED REBAR, MULTIPLY THE TABULATED VALUES BY 1.5.
8. FOR #11 AND LARGER BARS, MECHANICAL ANCHORAGE AND SPICES SHALL BE REQUIRED, AND SHALL DEVELOP 1.25 F_y MIN.
9. WELDED WIRE FABRIC SHALL LAP TWO CROSS WIRES.

TYP. BARRIER WALL CORNER
REINFORCING DETAIL 1
N.T.S.

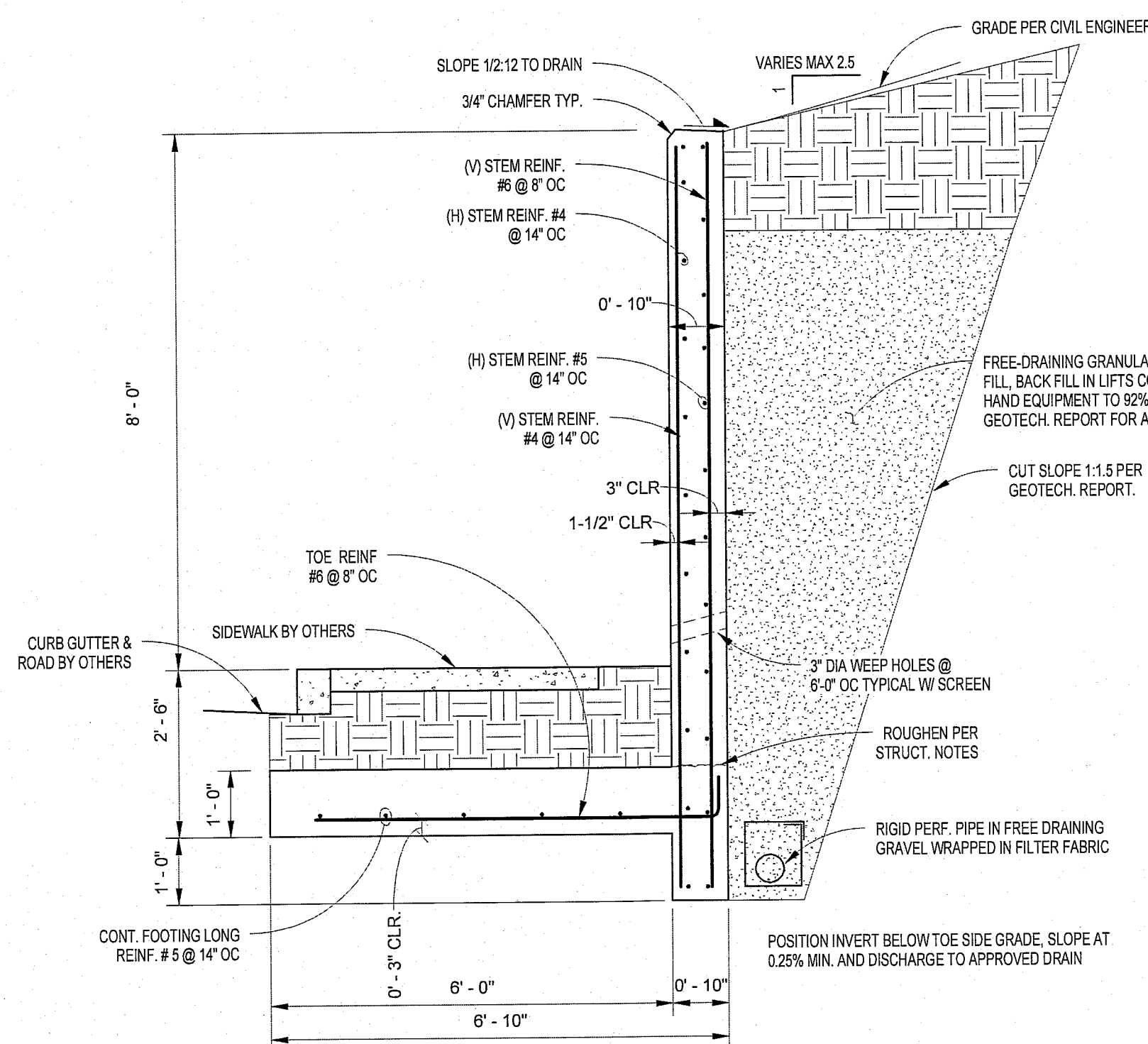


NOTE: FOOTING SHALL BE PLACED ON A 4:1 SLOPE MAXIMUM OTHERWISE NOTIFY E.O.R. FOR STEP FOOTING DETAIL

TYPICAL RETAINING WALL MAX HEIGHT
4'-6"
N.T.S.



TYPICAL PIPE AND CONDUIT
PENETRATIONS THRU. FOOTING
N.T.S.



NOTE: FOOTING SHALL BE PLACED ON A 4:1 SLOPE MAXIMUM OTHERWISE NOTIFY E.O.R. FOR STEP FOOTING DETAIL

2 TYPICAL RETAINING WALL 8'-0" HEIGHT
N.T.S.

STRUCTURAL NOTES

GENERAL

-Designed in accordance with the 2008 International Building Code (IBC)
Design Loads:

Backfill soil data
Soil Unit Weight = 115 pcf
K_o = .5
Surcharge load applied as 35% of 150 psf as a lateral pressure on back of retaining wall
Allowable coefficient of base friction = 0.25

- Contractor shall ensure high standards of workmanship throughout, with strict adherence to the contract documents.
- Kingworks is responsible only for the design of the primary structural system as shown in the contract documents. Design of all secondary structure or non-structural elements are by others.
- Notify the Engineer immediately of any discrepancies between these notes, the contract drawings, the specification, or the governing code.
- Verify all existing conditions; verify all dimensions in the field; verify mechanical and electrical openings for size, location and number; notify the Engineer of any discrepancies or conditions not included in or contrary to the contract documents prior to shop drawing submittal or construction.
- Coordinate the structural drawings with drawings from all other disciplines (including but not limited to Civil, Mechanical, and Electrical).
- The structure shown in these drawings is designed to be stable and to resist the loads above only in a fully completed form. Contractor shall ensure that the structure is adequately braced and shored during construction for all temporary loads until all elements are in place, and shall ensure that temporary loadings do not exceed the allowable capacity of any structural elements both before and after these elements are in place.
- Do not scale drawings. See Civil drawings for dimensions, and notify the Engineer of any discrepancies.
- Any holes or other alterations to the structure which are not specifically detailed on the contract drawings shall be submitted to the Engineer for approval.
- These drawings, and all designs shown within these drawings, are copyrighted by Kingworks Consulting Engineers. Duplication is not permitted without written permission. The designs shown herein are intended for this project only and may not be used on any other project or for any other purpose.

FOUNDATIONS AND SURGRADE

- Soil Allowable Bearing Pressure: 2500 PSF (no increase when subjected to wind or seismic loadings).
- GeoTest geotechnical report dated March 31, 2010 for subgrade preparation, backfill, compaction. All provisions of the geotechnical report shall be enacted by the Contractor.
- Verify sizes, slopes and locations of tunnels, electrical cells, pits, pipes, floor drains, trenches and floor recesses with architectural, mechanical and electrical contractors.
- Pipes are not to pass through or beneath footings except as shown in specific details.
- All footings shall be centered below columns and walls, unless dimensioned otherwise.

REINFORCED CONCRETE

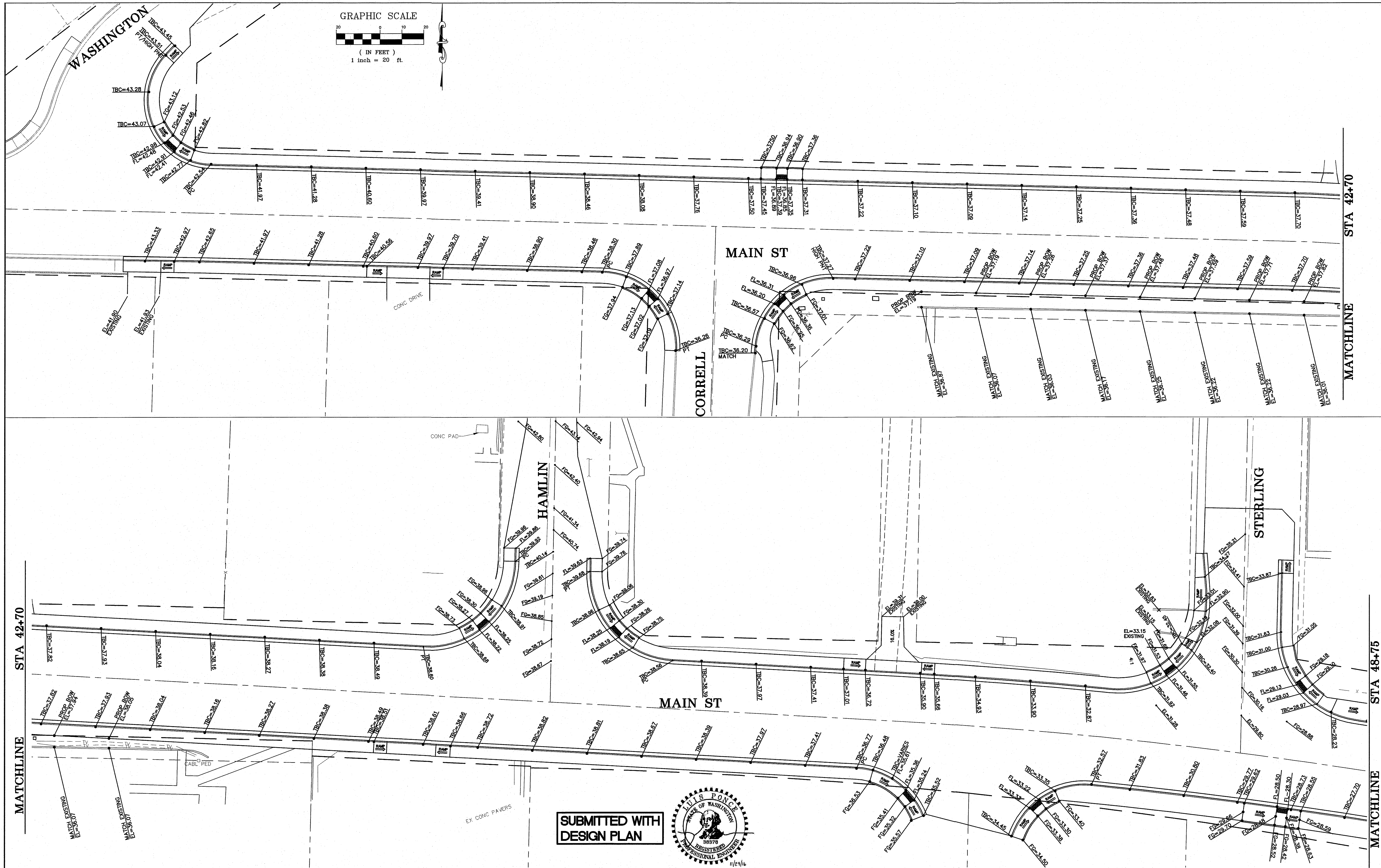
- Materials
- Concrete @ 28 days (56 days OK for fly ash or slag concrete):
f_c w/cm COARSE AGG. FLY ASH SLAG TOTAL FLY ASH + SLAG
(psi) (max) (max) (% substituted by mass)
Footings 4000 0.42 1-1/2" 0-25% 20-40% 45% MAX.
Walls 4000 0.42 1-1/2" 0-25% 20-45% 45% MAX.

- Cement: Type I or II per ASTM C150 (Type III OK for precast)
Fly Ash: Class F per ASTM C618
- Slag: GGBF Slag per ASTM C989, Grade 100 minimum.
- Concrete exposed to weather shall have air entrainment as follows:

COARSE AGG. AIR CONTENT (+/-1.5%)
3/4" - 1" 6.0%

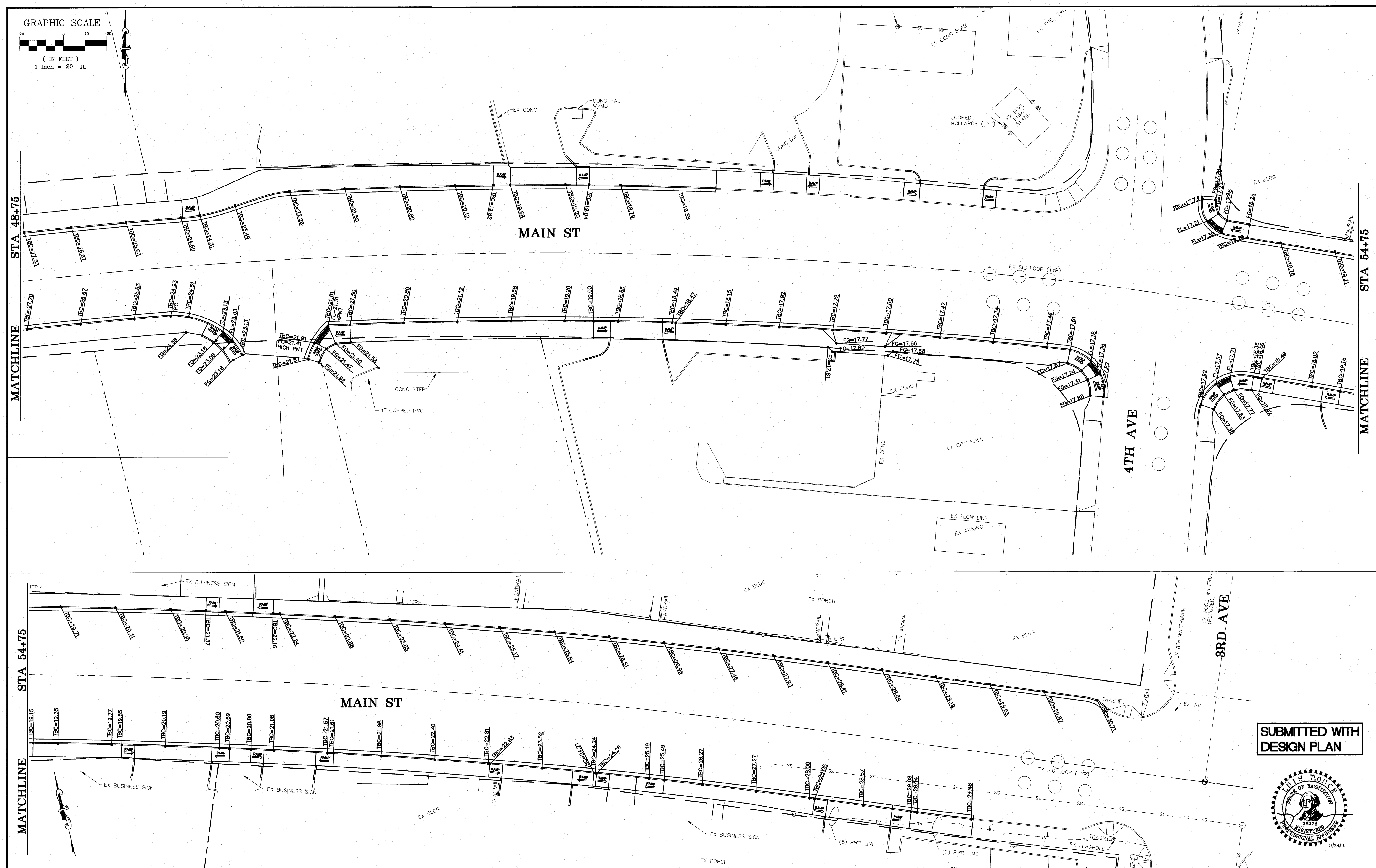
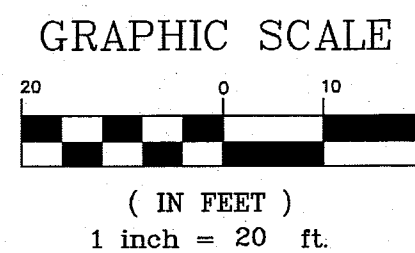
- Reinforcing Steel: ASTM A615, Grade 60 typical

6 STRUCTURAL NOTES
N.T.S.

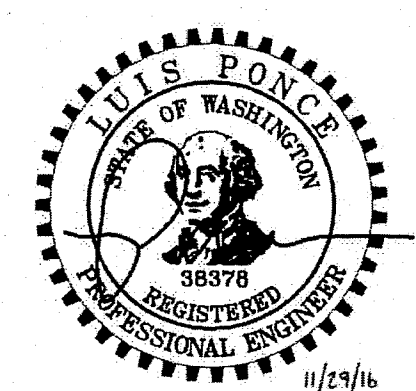


DESIGNED BY LP DRAWN BY MLK CHECKED BY		REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407	NO. DATE REVISION BY	CITY OF FERDALE PO BOX 936 FERDALE, WA 98248	MAIN STREET STREET IMPROVEMENTS GRADING PLAN STA 37+00 TO 48+75	JOB# / DWG 08018 08018_SP1.AB SCALE H: 1" = 20' V: n/a	DATE 7-21-10 SHEET 20
--	---	---	----------------------	--	---	---	--------------------------------

00619.020 12/23/16 stt



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Lynden, Washington 98264 Fax (360) 354-0407

NO.	DATE	REVISION	BY

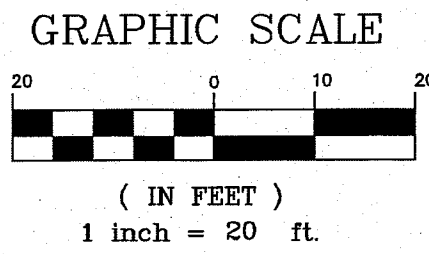
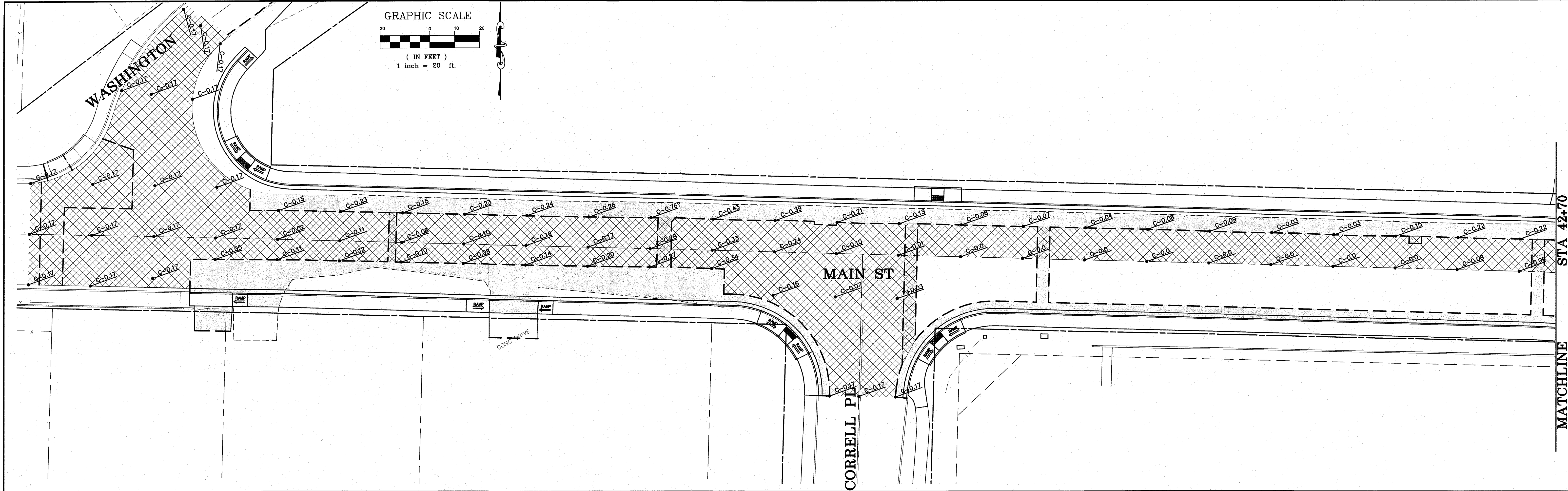
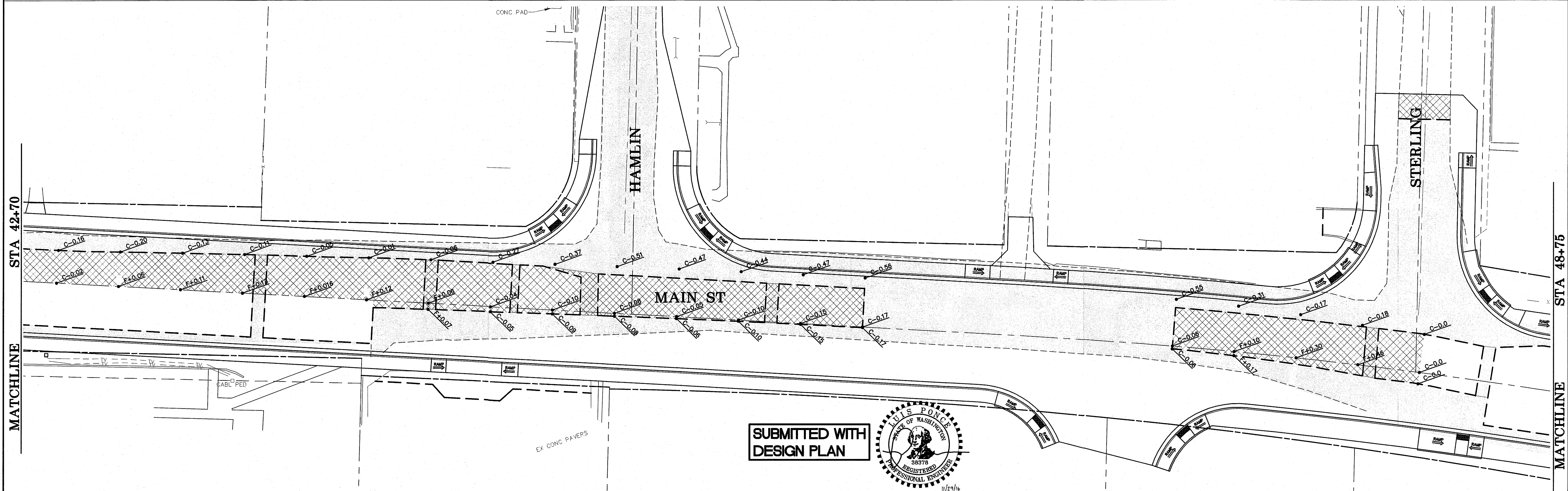
CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
STREET IMPROVEMENTS
GRADING PLAN STA 48+75 TO 60+25

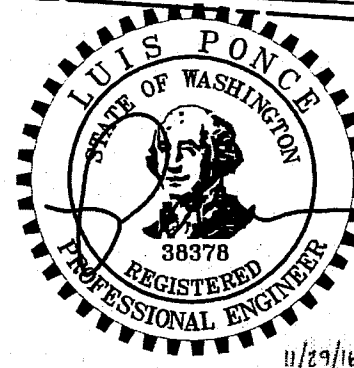
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SCALE H:1"=20' v:n/a	SHEET 21

00010.01 12/23/16 stt

P:\Project\08018\08018_AB\08018_SP1.dwg, 11/25/2005 1:44:53 AM



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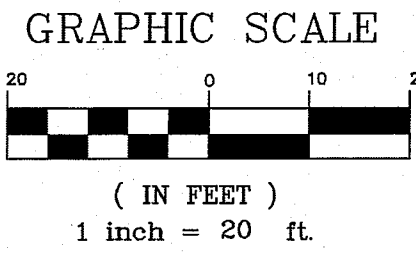
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NO.	DATE	REVISION	BY

MAIN STREET
STREET IMPROVEMENTS
GRINDING PLAN STA 37+00 TO 48+75

JOB# / DWG	DATE
08018 08018_SP1.AB	7-21-10
SCALE	SHEET
H:1"=20' V:n/a	22

00010.072 12/23/16 ST



STA 48+75

MATCHLINE

STA 54+75

MATCHLINE

STA 54+75

MATCHLINE

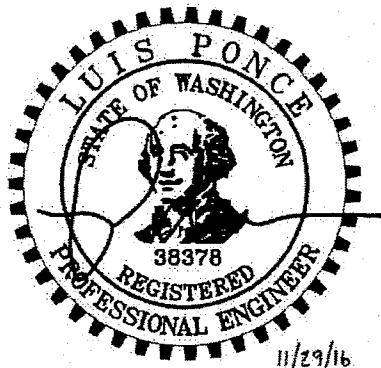
3RD AVE

4TH AVE

MAIN ST

MAIN ST

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NZ
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DATE

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FERDALE, WA 98248

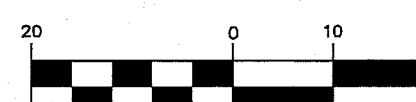
MAIN STREET
STREET IMPROVEMENTS
GRINDING PLAN STA 48+75 TO 60+25

JOB# / DWG
08018 08018_SP1.AB

SCALE
H:1"=20' V:N/A

DATE
7-21-10

SHEET
23



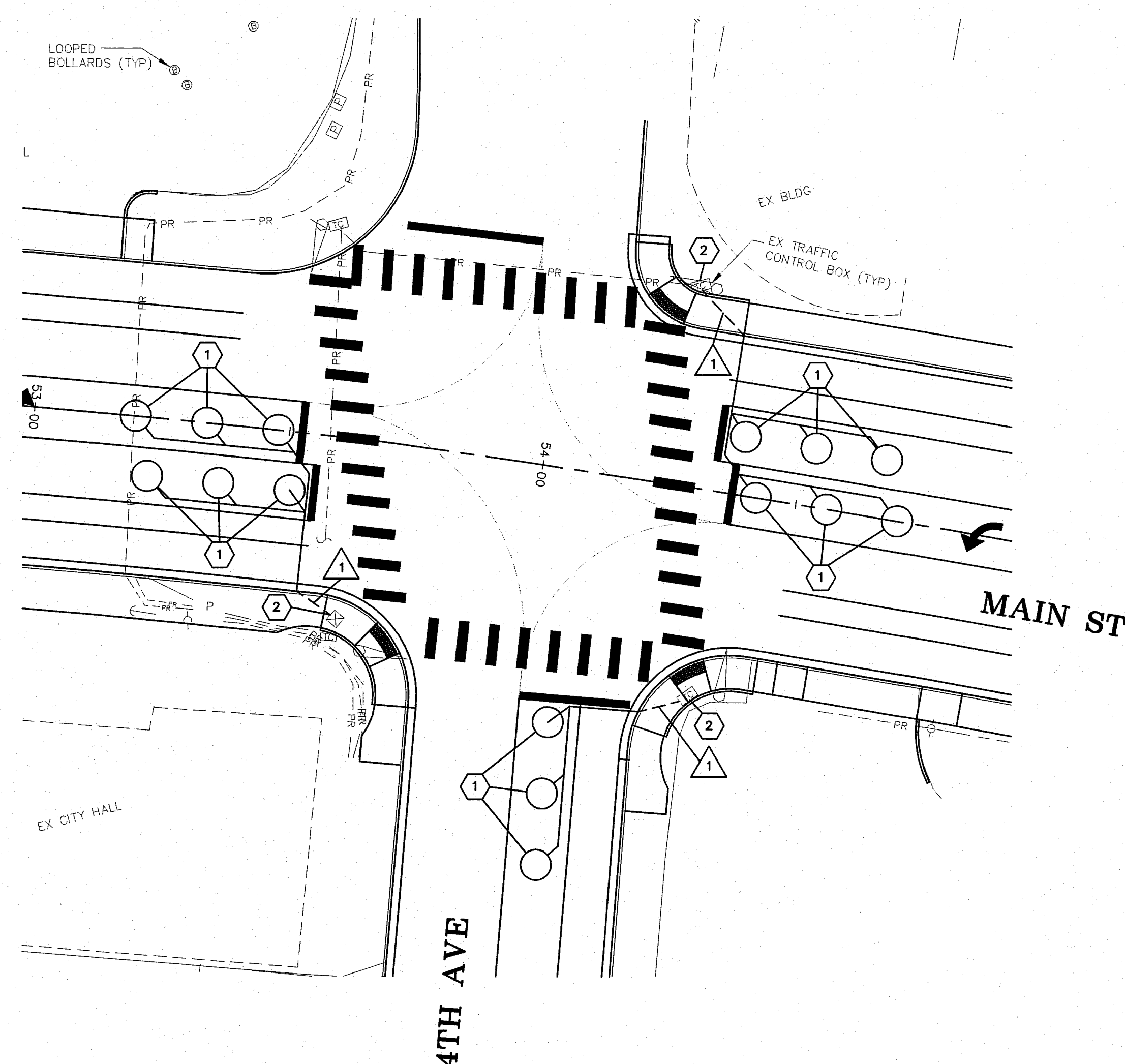
(IN FEET)
1 inch = 20 ft.

CONSTRUCTION NOTES:

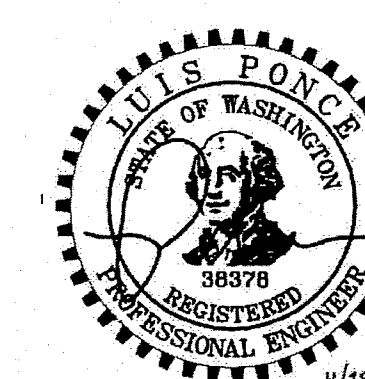
1. INSTALL TYPE 3A INDUCTION LOOP VEHICLE DETECTOR. USE WSDOT STANDARD PLANS J-8c AND J-8d.
2. ROUTE NEW LOOP STUBOUT CONDUIT TO EXITING JUNCTION BOX OR USE EXITING CONDUIT IF UNDAMAGED. SPLICE NEW LOOP WIRES TO EXISTING LEAD-IN CABLES INSIDE JUNCTION BOX.

WIRING SCHEDULE

CONDUIT RUN 	CONDUIT SIZE	NEW CONDUCTORS	NOTES:
		#12 TWISTED PAIRS	
1	2"	6	EXISTING CONDUITS MAY BE USED IF UNDAMAGED



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PO BOX 936
FERNDALE, WA 98248

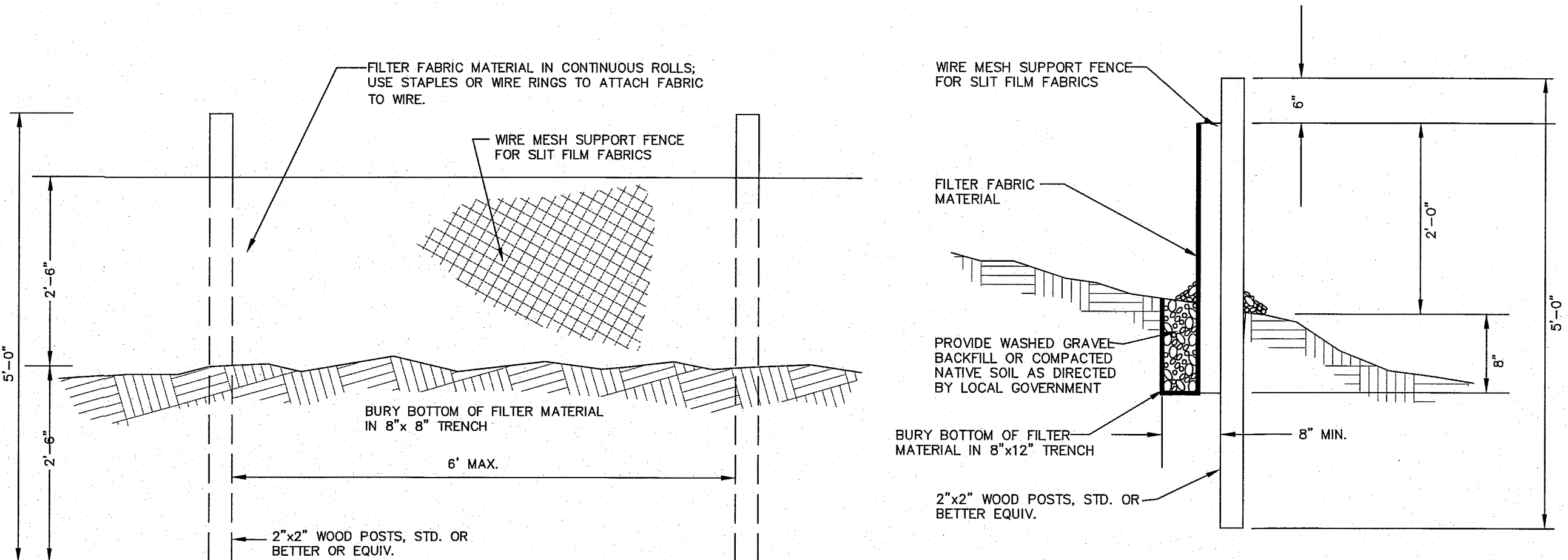
MAIN STREET STREET IMPROVEMENTS 4th AVE AND MAIN ST. TRAFFIC LOOPS

JOB# / DWG	08018	08018_ELEC
SCALE	H: 1"=20' v: n/a	

DATE	7-21-10
SHEET	24

GENERAL NOTES

- 1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 2. ALL CUT AND FILL SLOPES SHALL BE SEEDED AND FERTILIZED FOR EROSION CONTROL. CONTRACTOR SHALL BE RESPONSIBLE FOR SLOPE EROSION UNTIL VEGETATION IS FIRMLY ESTABLISHED.
- 3. CONTRACTOR SHALL INFORM THE ENGINEER AND OBTAIN APPROVAL FROM THE ENGINEER OF ANY PROPOSED CHANGES IN PLAN PRIOR TO CONSTRUCTION OF THAT CHANGE. CONTRACTOR SHALL KEEP RECORD OF DEVIATIONS AND FORWARD TO THE ENGINEER.
- 4. CONTRACTOR WILL HAVE A WATER TRUCK AVAILABLE ON SITE AT ALL TIMES. CONTRACTOR WILL WATER SURFACES OFTEN ENOUGH TO ABATE DUST AS APPROVED BY THE ENGINEER. WATERING WILL INCLUDE WEEKENDS AND HOLIDAYS.
- 5. THE CONTRACTOR WILL CONSTRUCT A CONSTRUCTION ENTRANCE AS SHOWN IN THE CONSTRUCTION ENTRANCE DETAIL ON THIS SHEET AT EACH ENTRANCE FROM A STAGING OR WORK AREA ONTO A PUBLIC ROAD OR NON-STAGING OR NON-WORKING AREA.
- 6. ALL DISTURBED AREAS SHALL BE HYDROSEEDING. GRASS SEEDING SHALL BE BROADCAST IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES AS SHOWN.
- 8. THE CONSTRUCTED EROSION CONTROL AND SEDIMENTATION PLAN SHALL BE APPROVED BY THE ENGINEER PRIOR TO PERFORMING ANY SITE GRADING OR CLEARING.
- 9. MAINTENANCE AND OPERATION OF THE EROSION CONTROL AND SEDIMENTATION SYSTEM SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR IMPLEMENTATION OF THE SEDIMENTATION AND EROSION CONTROL MEASURES.
- 10. ANY VEGETATION NOT IN THE CONSTRUCTION AREA SHALL BE LEFT UNDISTURBED.
- 11. ALL CLEARING LIMITS SHALL BE VISIBLY MARKED PRIOR TO CLEARING.
- 12. ALL STORM DRAIN FACILITIES WITHIN THE PROJECT BOUNDARY, OR WHICH ARE IMPACTED BY THE PROJECT ARE TO BE CLEARED OF SEDIMENT AND DEBRIS PRIOR TO FINAL ACCEPTANCE OF THE PROJECT.
- 13. THIS PLAN REPRESENTS THE MINIMUM REQUIREMENTS FOR THIS PROJECT. ADDITIONAL EROSION CONTROL MAY BE REQUIRED BY THE ENGINEER AS ARE FOUND NECESSARY.
- 14. THE TEMPORARY EROSION CONTROL SYSTEMS SHALL BE INSTALLED PRIOR TO ALL OTHER SITE CONSTRUCTION.

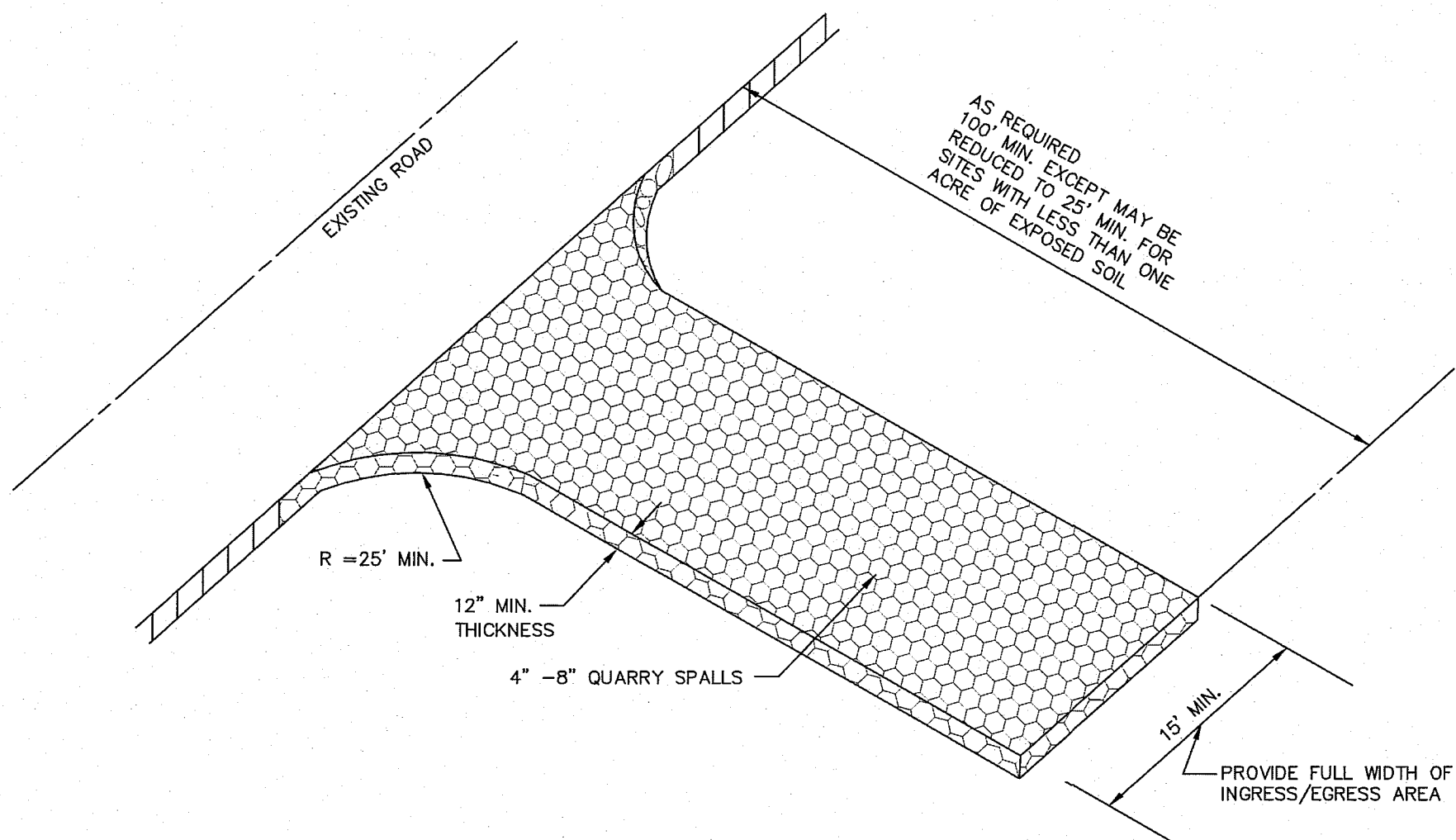


FILTER FABRIC FENCE DETAIL

NTS

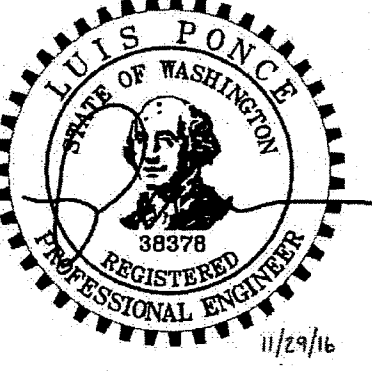
LEGEND

- SYMBOL**
- CE** WASHINGTON STATE DEPT. OF ECOLOGY BEST MANAGEMENT PRACTICES (BMP). REF.: STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, 2005
- FF** BMP E2.10 STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH SEE DETAIL THIS SHEET
- P** BMP E3.30 FILTER FENCE - SEE DETAIL THIS SHEET
- I** BMP E3.30 INLET PROTECTION - PLACE SEDIMENT FILTER AROUND OR OVER CATCH BASINS



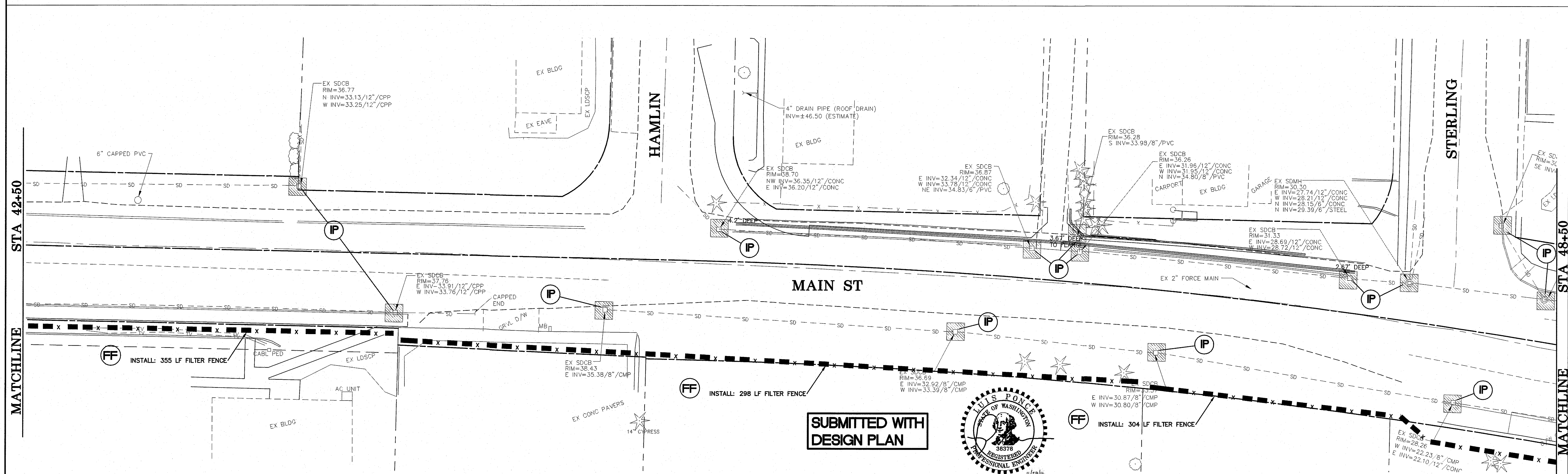
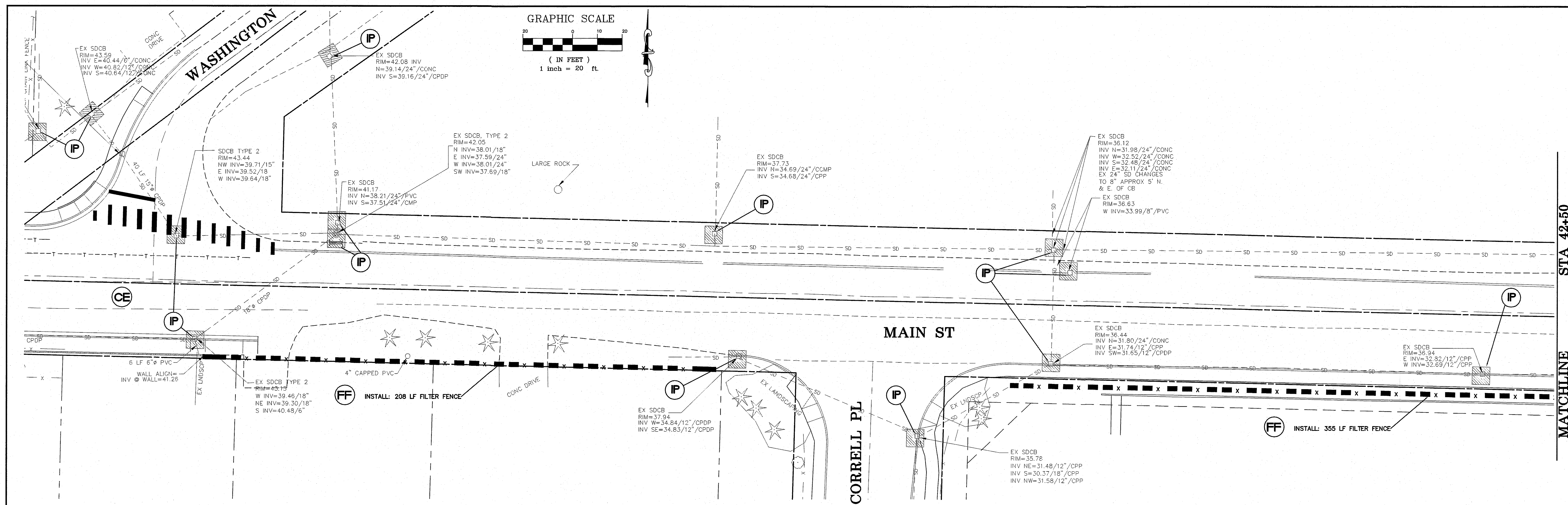
STABILIZED CONSTRUCTION ENTRANCE

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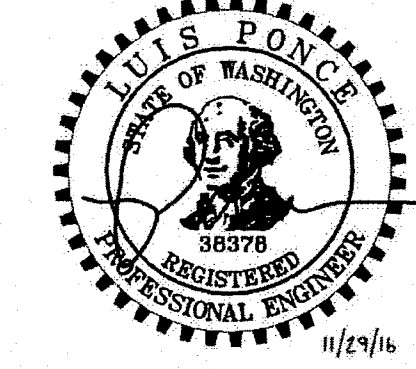
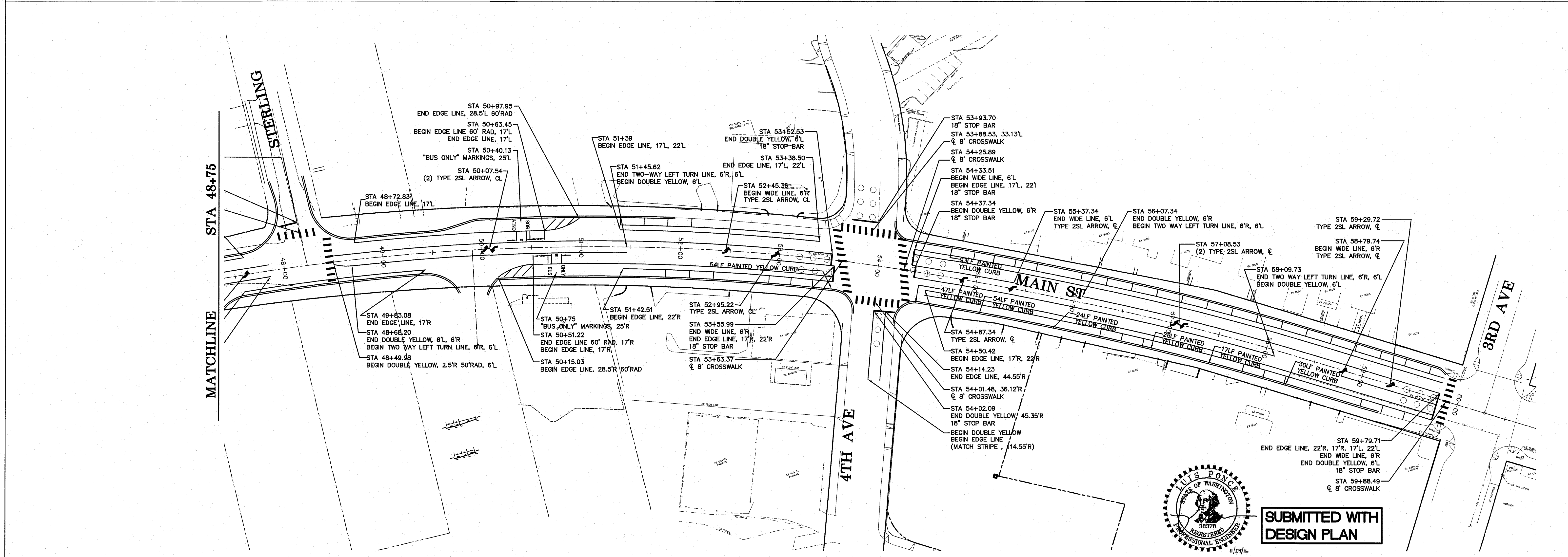
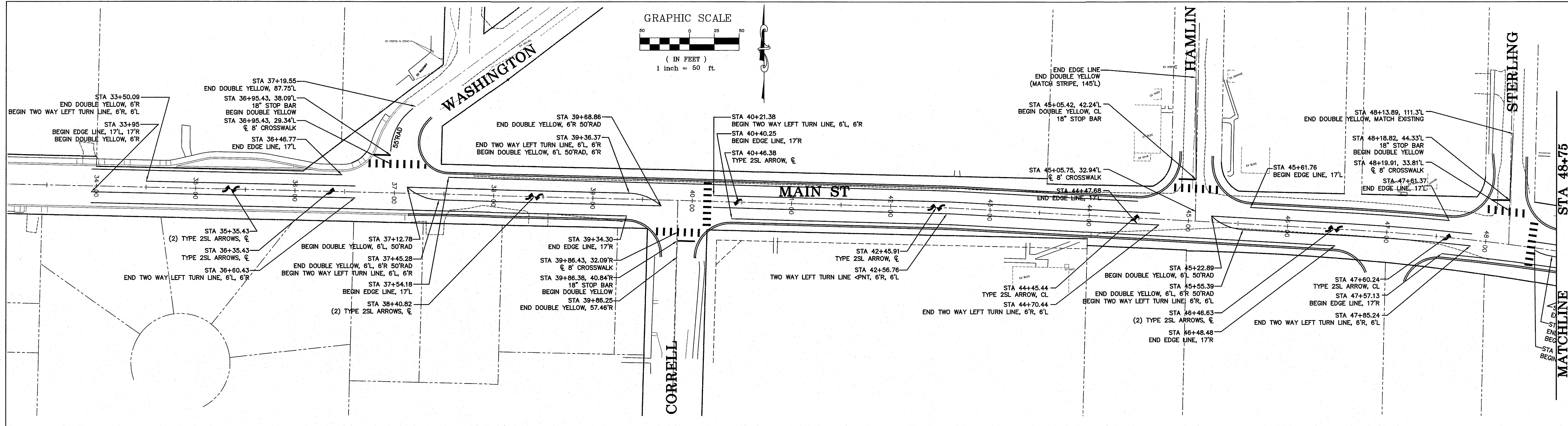


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DESIGNED BY LP DRAWN BY LMC CHECKED BY		REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264	Ph (360) 354-3687 Fax (360) 354-0407					CITY OF FERNDAL PO BOX 936 FERNDAL, WA 98248	MAIN STREET STREET IMPROVEMENTS EROSION CONTROL DETAILS	JOB# / DWG	DATE
										08018 08018_SP1	7-21-10
										SCALE	SHEET
				NO.	DATE	REVISION	BY			H:n/a V:n/a	25

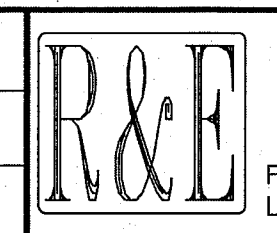


	DESIGNED BY LP		REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS				CITY OF FERNDALE PO BOX 936 FERNDAL, WA 98248	MAIN STREET EROSION CONTROL PLAN STA 37+00 TO 48+50	JOB# / DWG 08018 08018_SP1	DATE 7-21-10
	DRAWN BY LMC								SCALE H:1"=20' v:n/a	SHEET 26
	CHECKED BY		PO Box 978 423 Front St., Ste 201 Lynden, Washington 98264	Ph (360) 354-3687 Fax (360) 354-0407	NO.	DATE	REVISION	BY		



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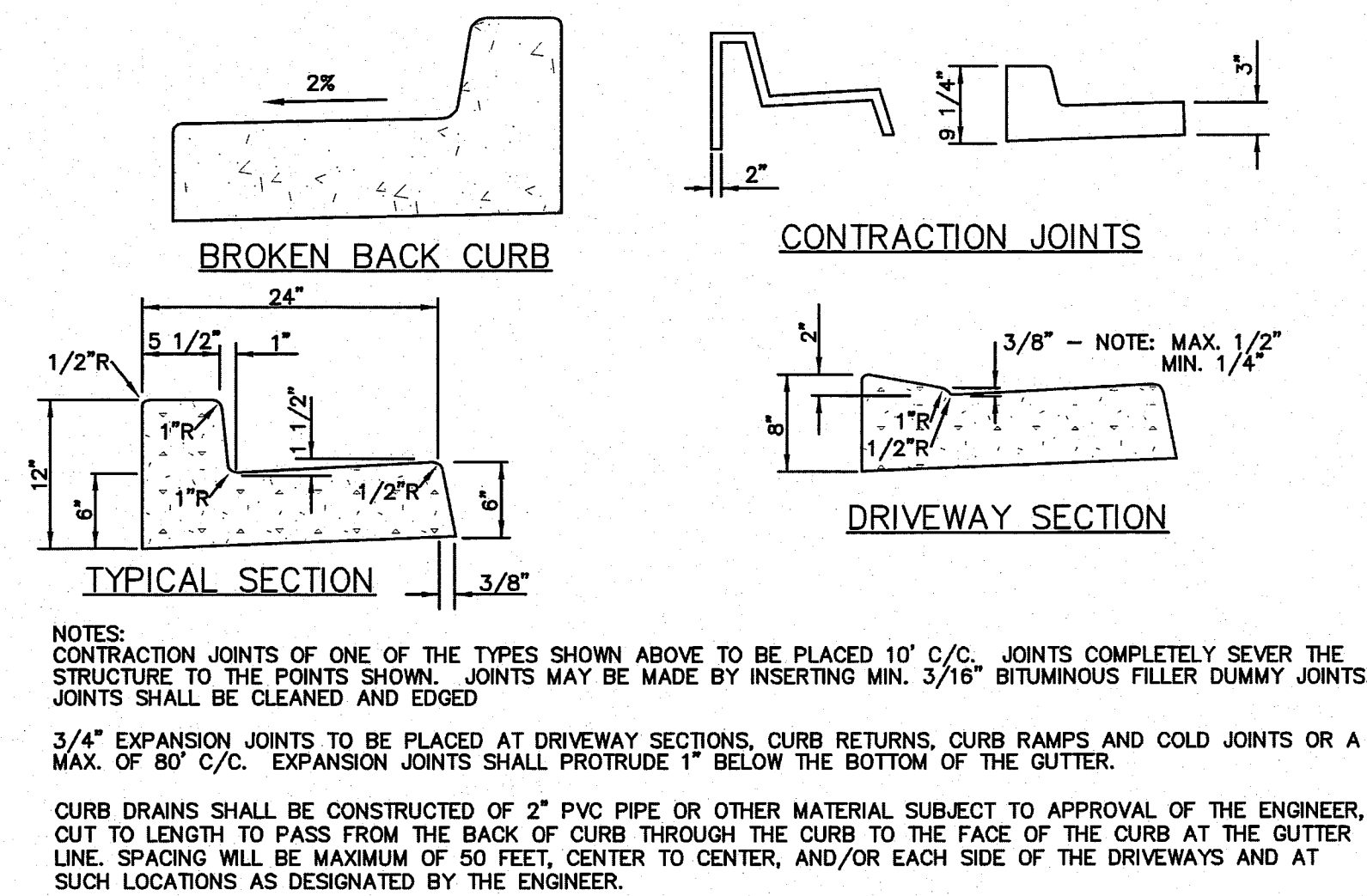
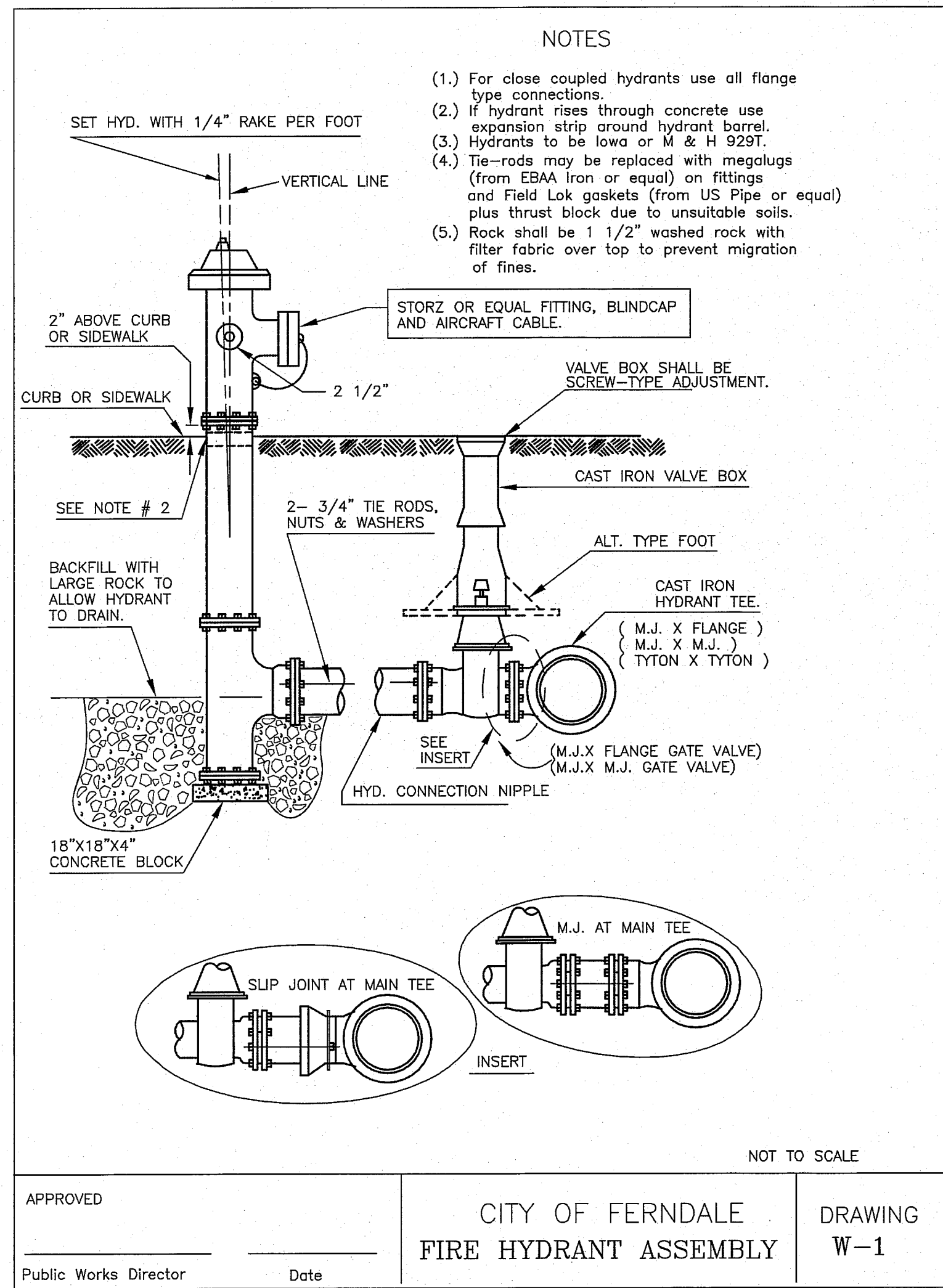
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ENGINEERING, INC.
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Lynden, Washington 98264 Fax (360) 354-0407

NO.	DATE	REVISION	BY

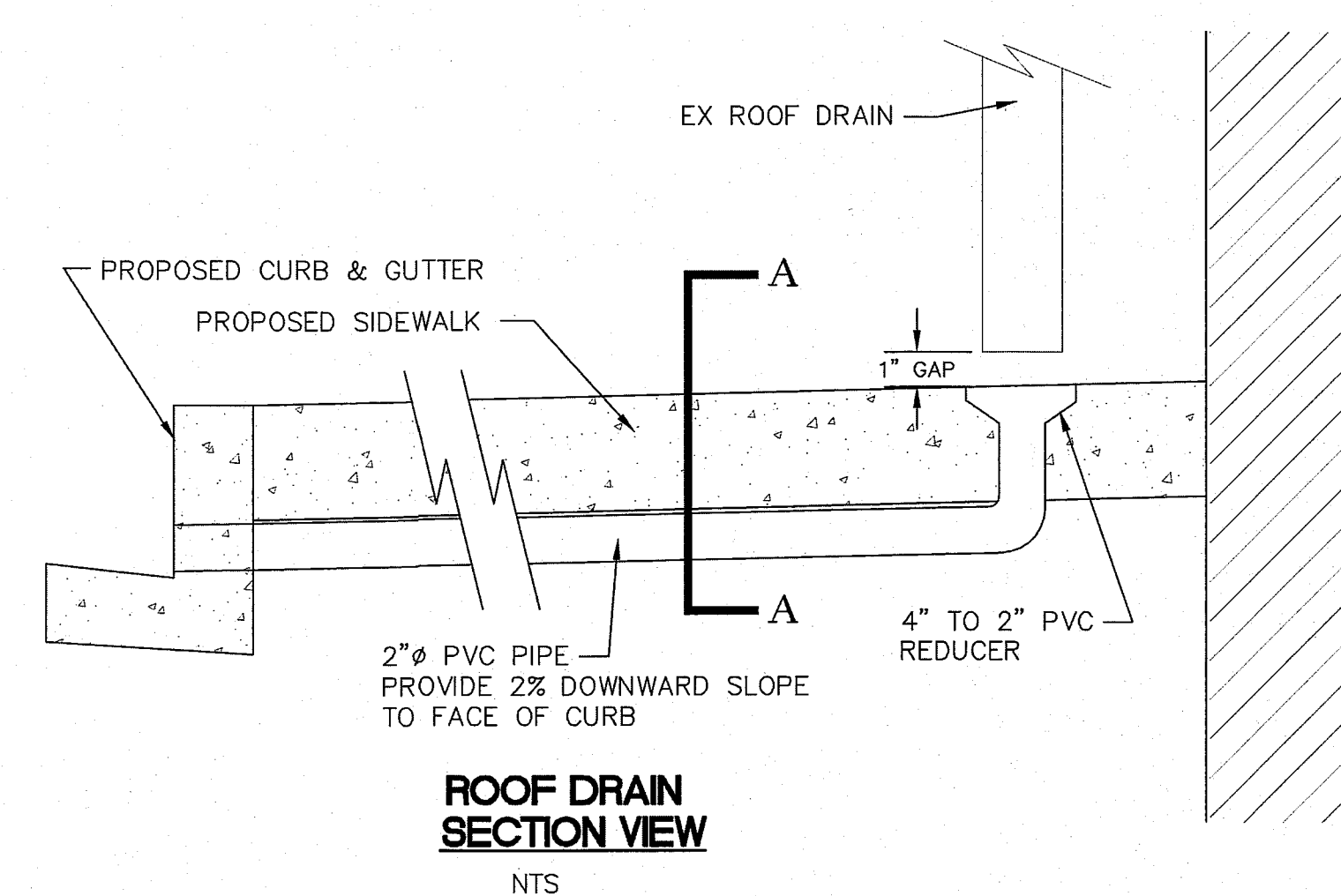
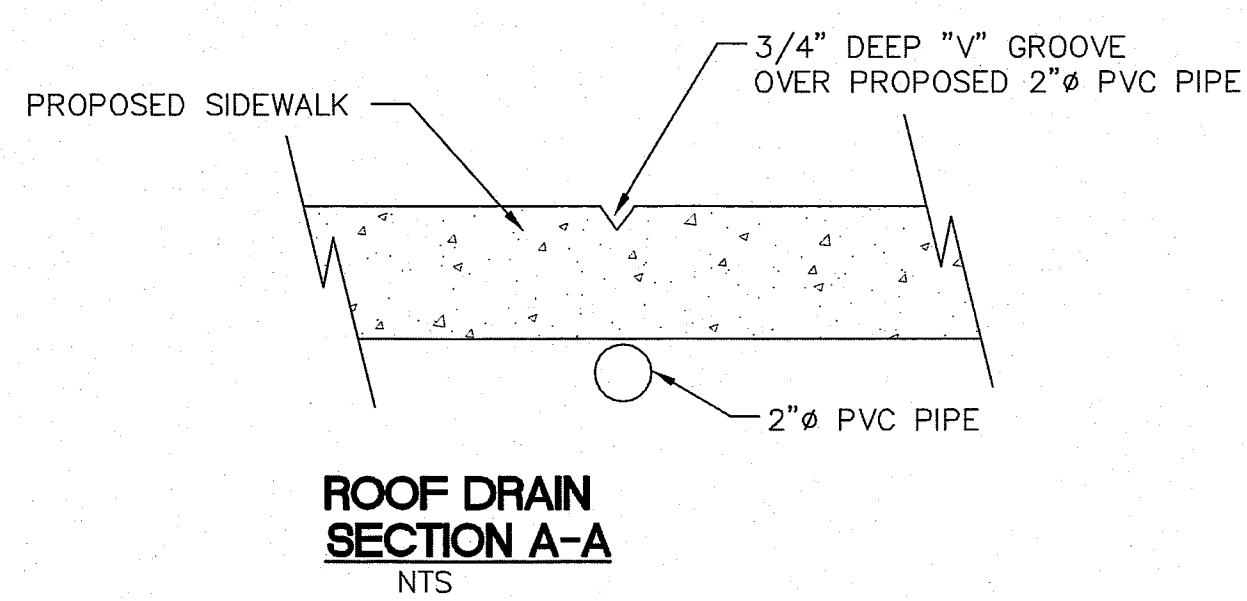
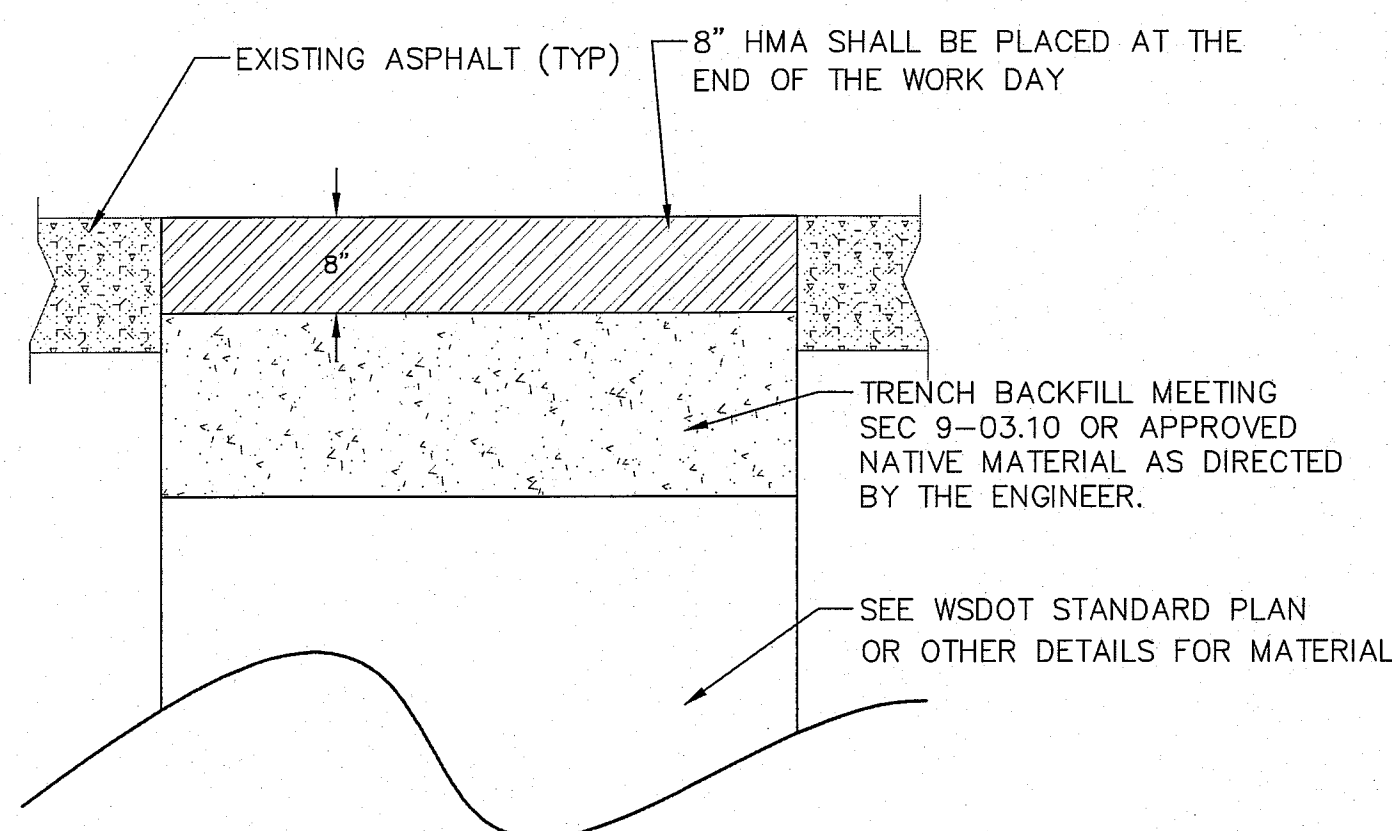
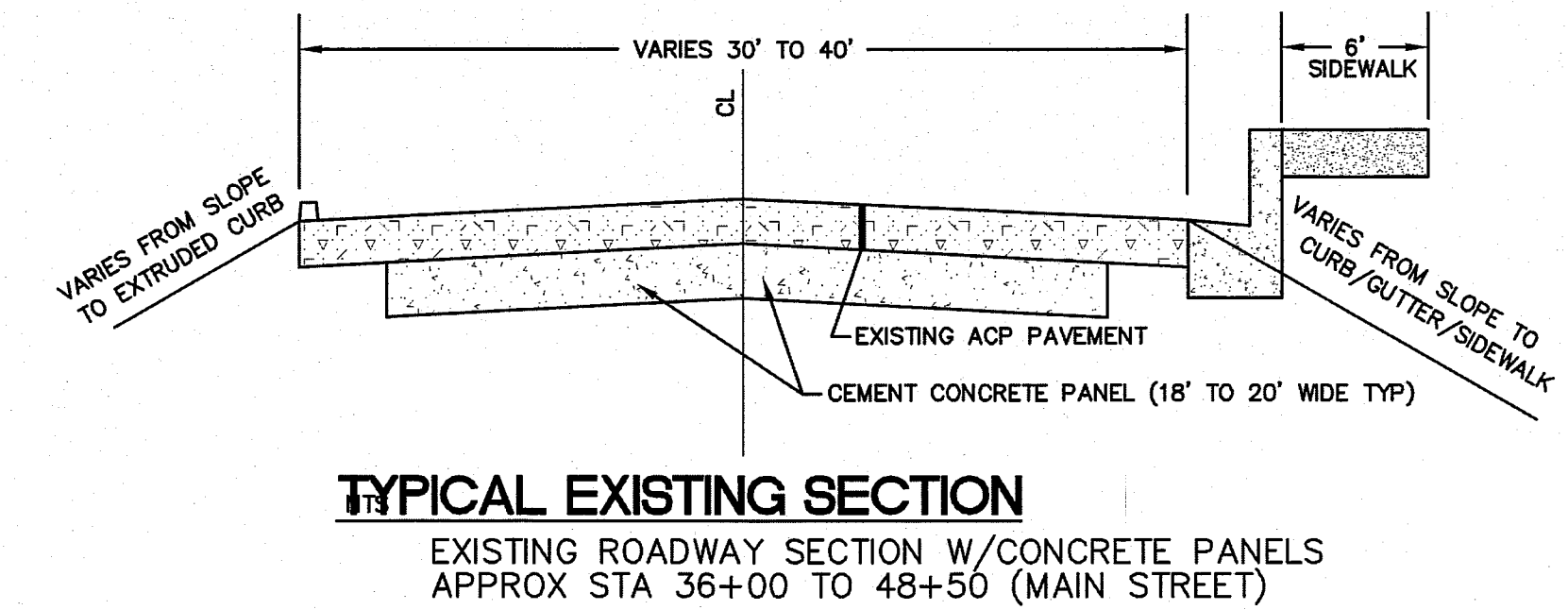
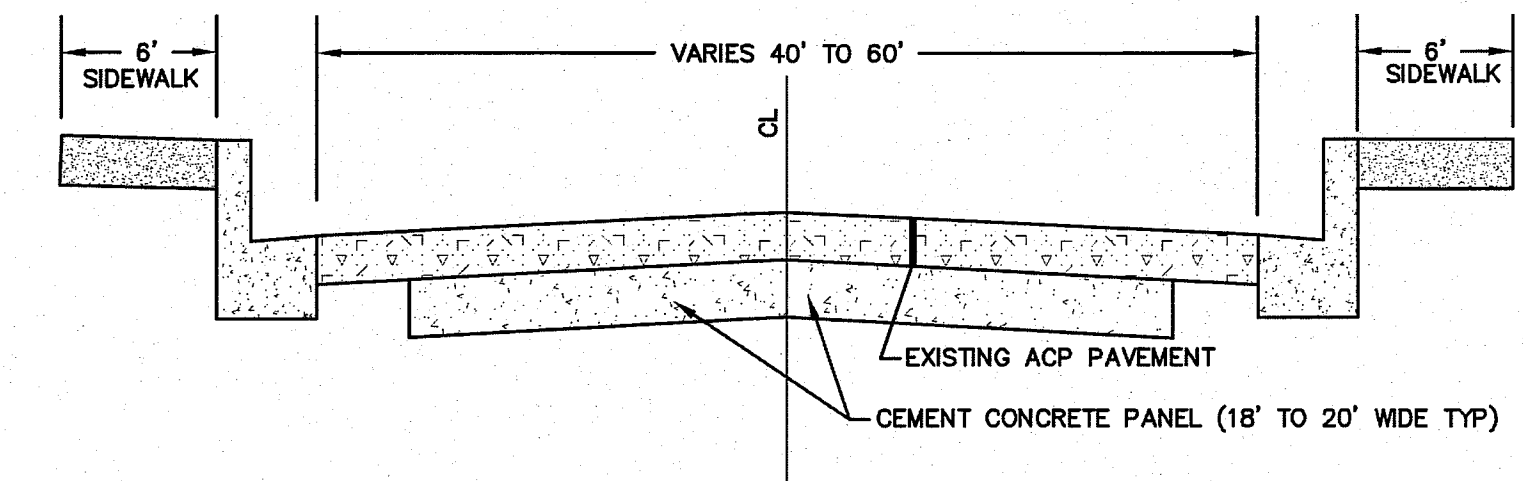
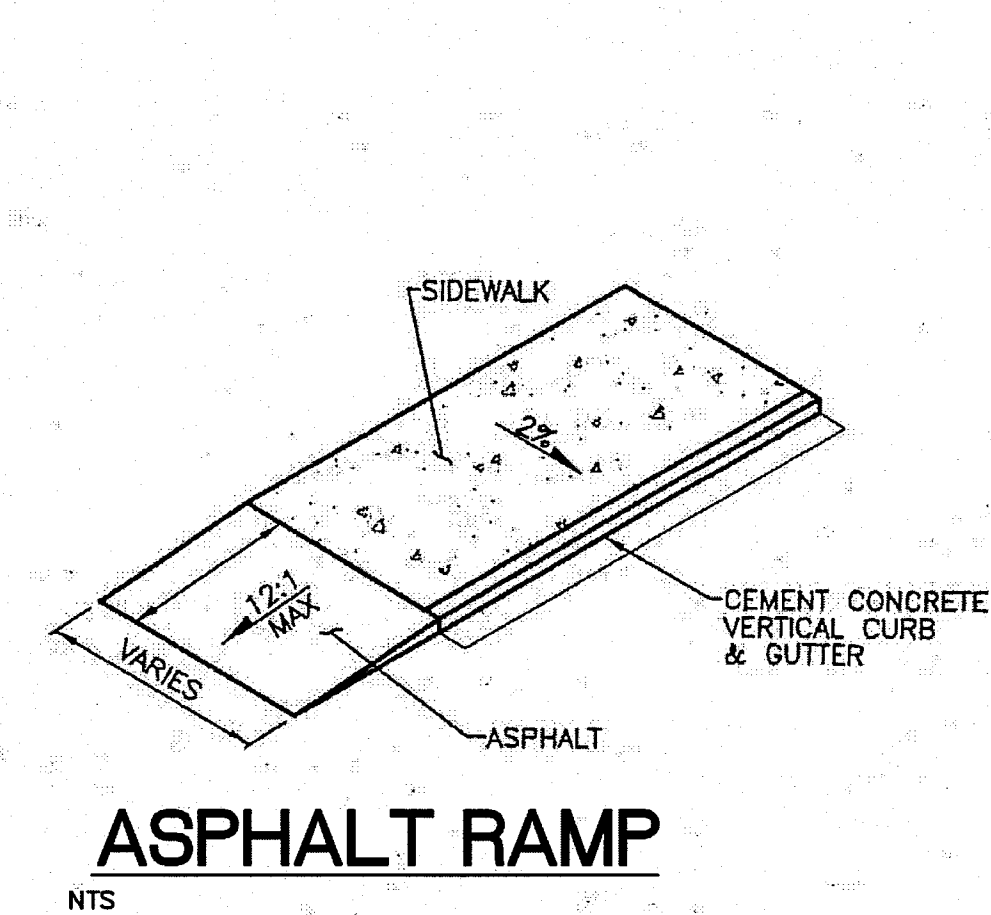
CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
CHANNELIZATION PLANS
STA 34+00 TO 60+25

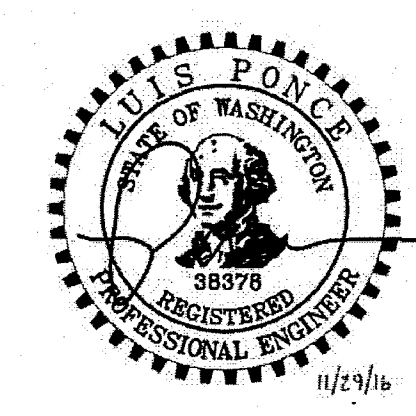
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SCALE H: 1" = 50' V: NA	SHEET 28



CURB AND GUTTER DETAILS

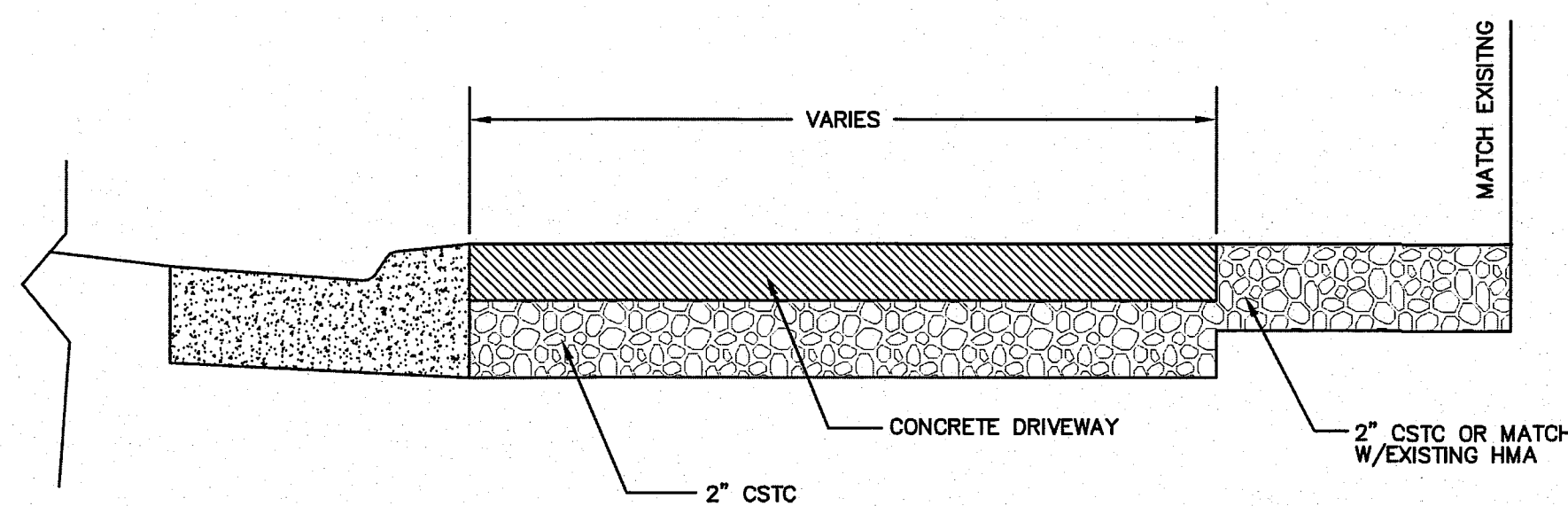


SUBMITTED WITH
DESIGN PLAN



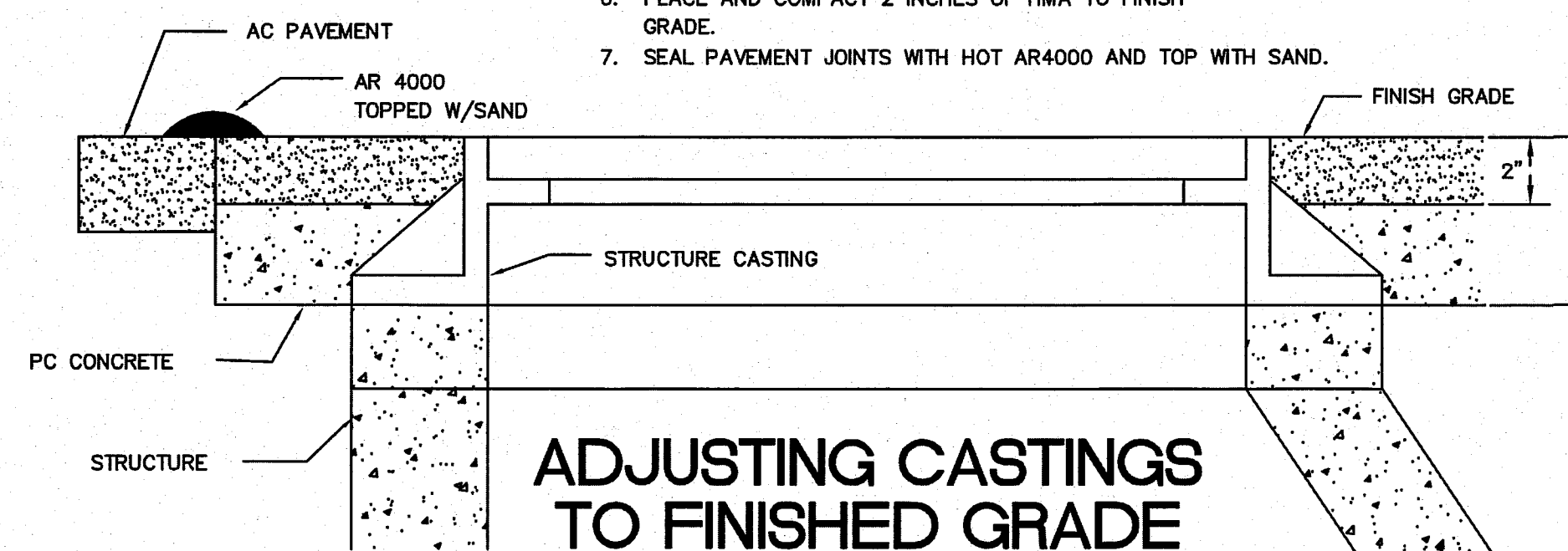
	DESIGNED BY LP	 REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407					CITY OF FERNDALE PO BOX 936 FERNDALE, WA 98248	MAIN STREET DETAILS	JOB# / DWG 08018	DET	DATE 7-21-10
	DRAWN BY LMC								SCALE H:n/a v:n/a	SHEET	
	CHECKED BY									29	

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PROPOSED DRIVEWAY SECTION

NTS

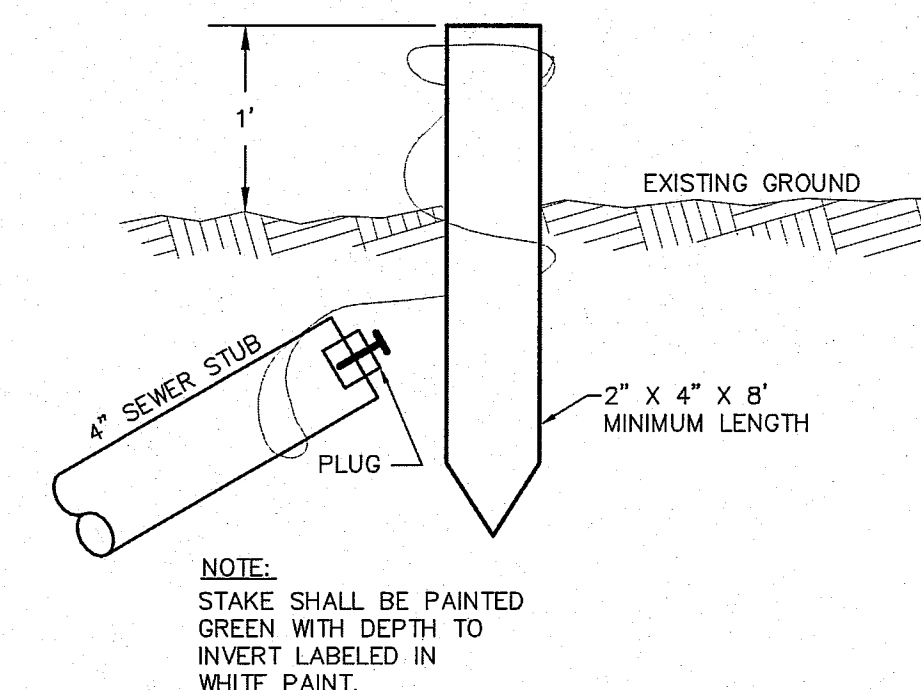


ADJUSTING CASTINGS TO FINISHED GRADE

NTS

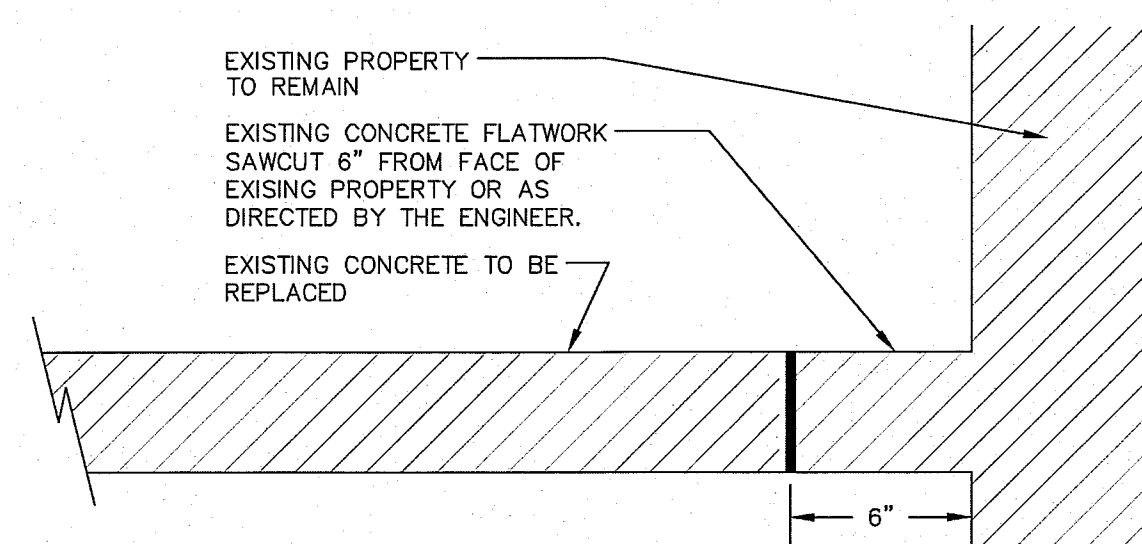
NOTES:

1. ALL FRAMES, COVERS AND VALVE BOXES SHALL BE ADJUSTED TO FINISHED GRADE AFTER THE FINAL LIFT OF PAVING HAS BEEN COMPLETED. THE FOLLOWING PROCEDURE SHALL BE USED:
2. CUT THE ASPHALT IN AN EVEN CIRCLE AROUND THE STRUCTURE CASTING TO BE ADJUSTED.
3. REMOVE THE FILL MATERIAL WITHIN THE CUT PAVEMENT AREA TO 8 INCHES MIN. BELOW FINISH GRADE.
4. PLACE THE CASTING AT FINISH GRADE.
5. PLACE PORTLAND CEMENT CONCRETE TO WITHIN THE TOP 2 INCHES OF FINISH GRADE.
6. APPLY TACK TO THE STRUCTURE CASTING, CUT PAVEMENT, AND PC CONCRETE.
7. PLACE AND COMPACT 2 INCHES OF HMA TO FINISH GRADE.
8. SEAL PAVEMENT JOINTS WITH HOT AR4000 AND TOP WITH SAND.



SEWER SERVICE STAKE

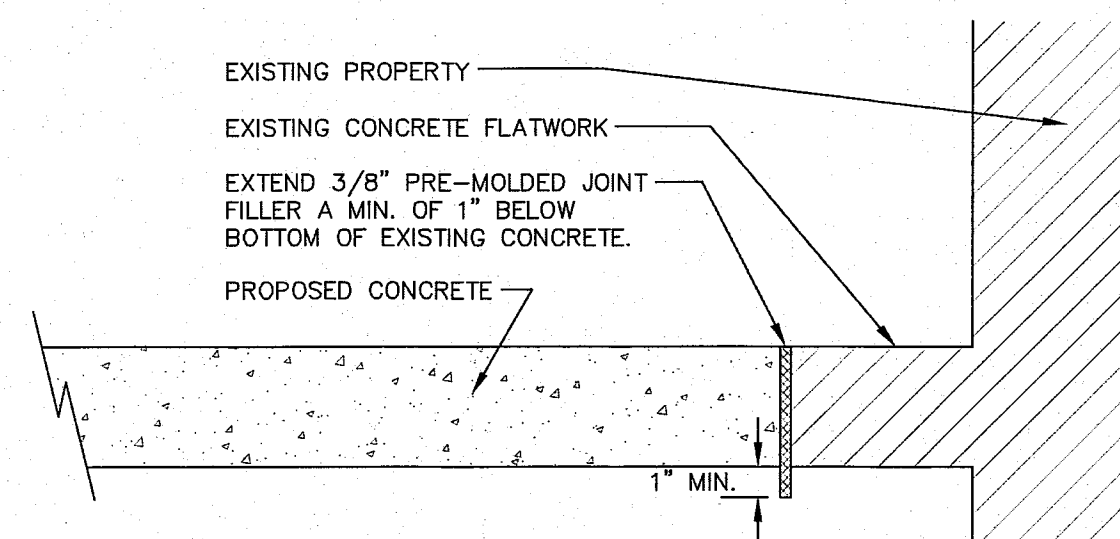
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SAWCUT DETAIL WHERE EXISTING PROPERTY TO REMAIN

DETAIL 'A'

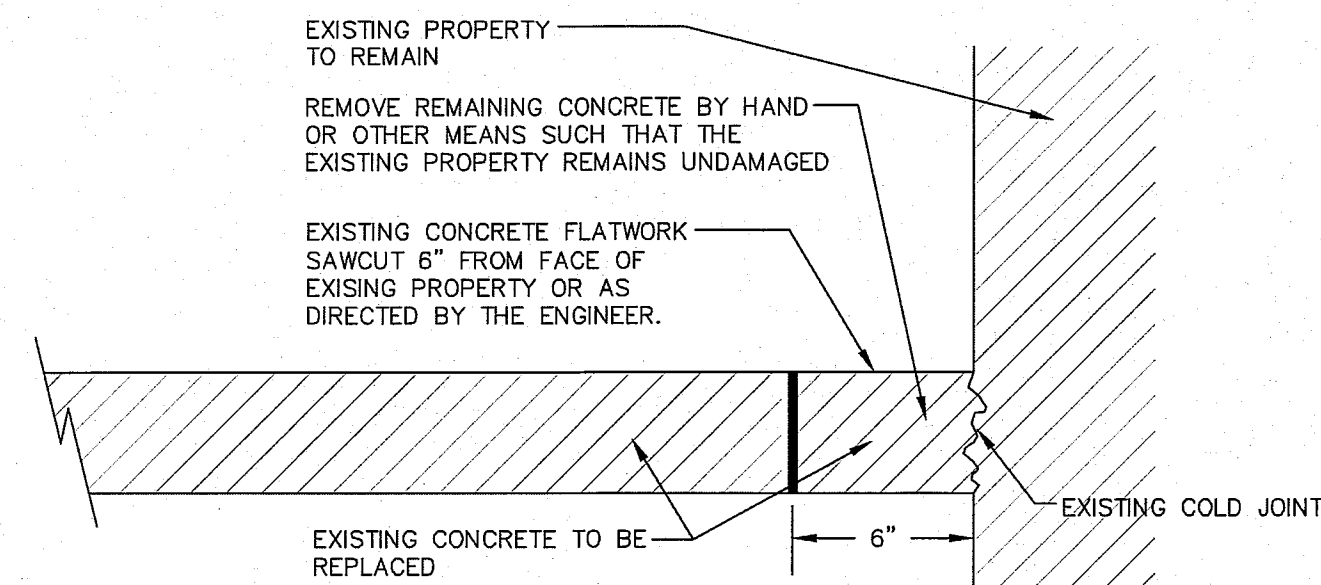
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PROPOSED CONCRETE AT EXISTING CONCRETE FLATWORK

WHERE EXISTING PROPERTY TO REMAIN

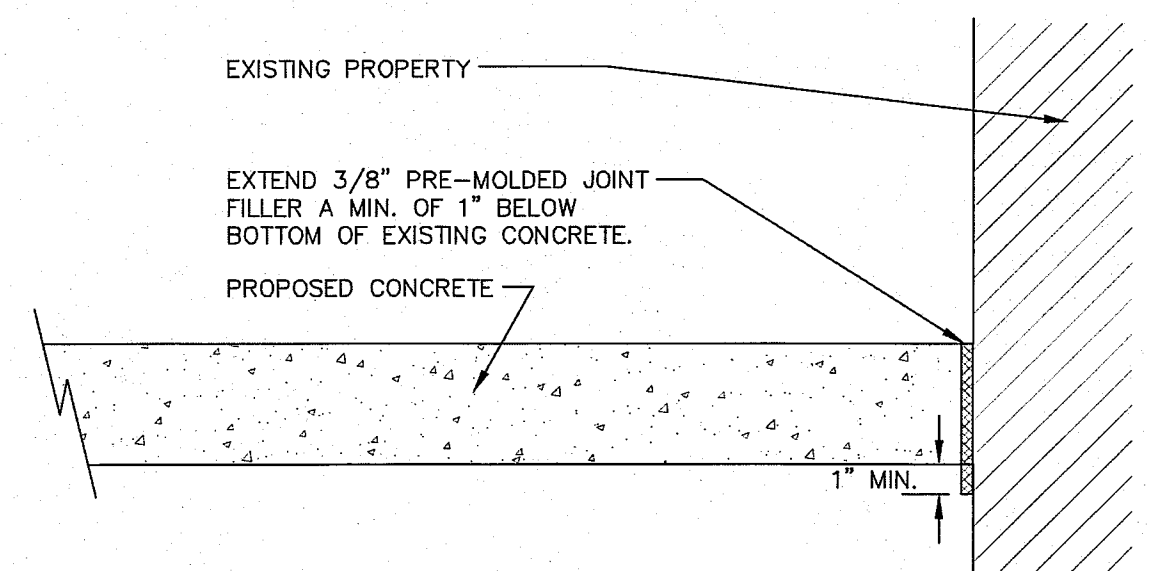
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REMOVAL DETAIL WHERE ALL EXISTING FLATWORK REMOVED

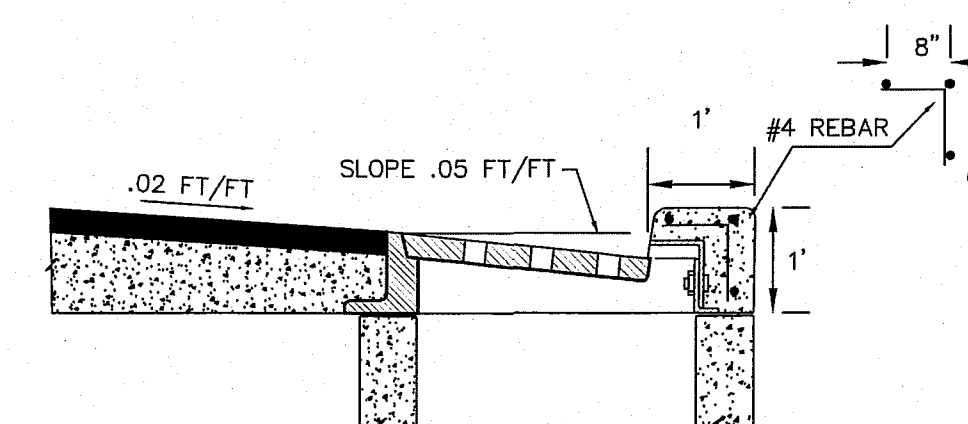
DETAIL 'B'

NTS

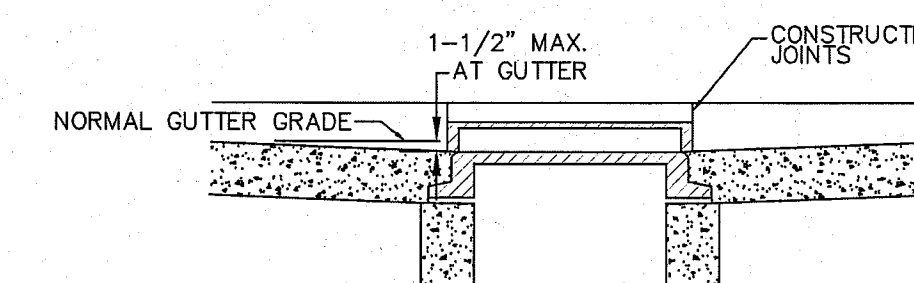


PROPOSED CONCRETE WHERE ALL EXISTING FLATWORK REMOVED

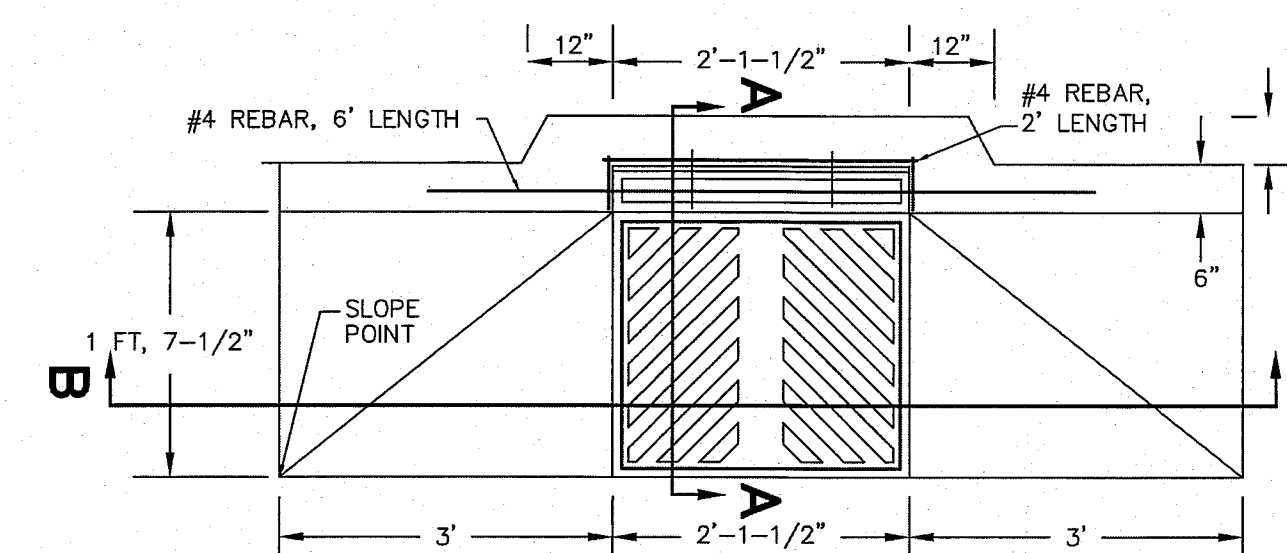
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SECTION A-A

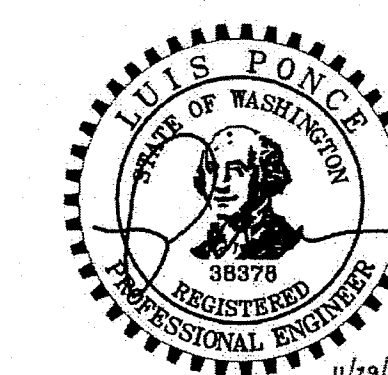


SECTION B-B



THRU CURB INLET DETAIL

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NO.

DATE

REVISION

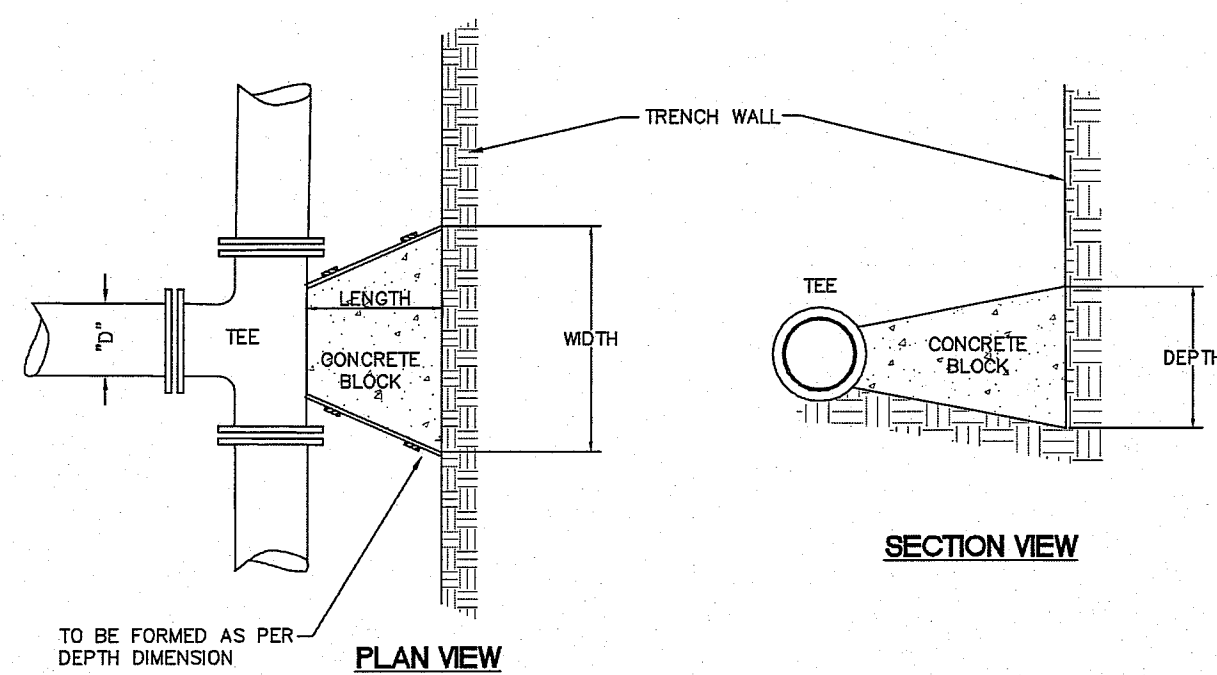
BY

CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

**MAIN STREET
DETAILS**

JOB# / DWG
08018 DET
SCALE
H:n/a V:n/a

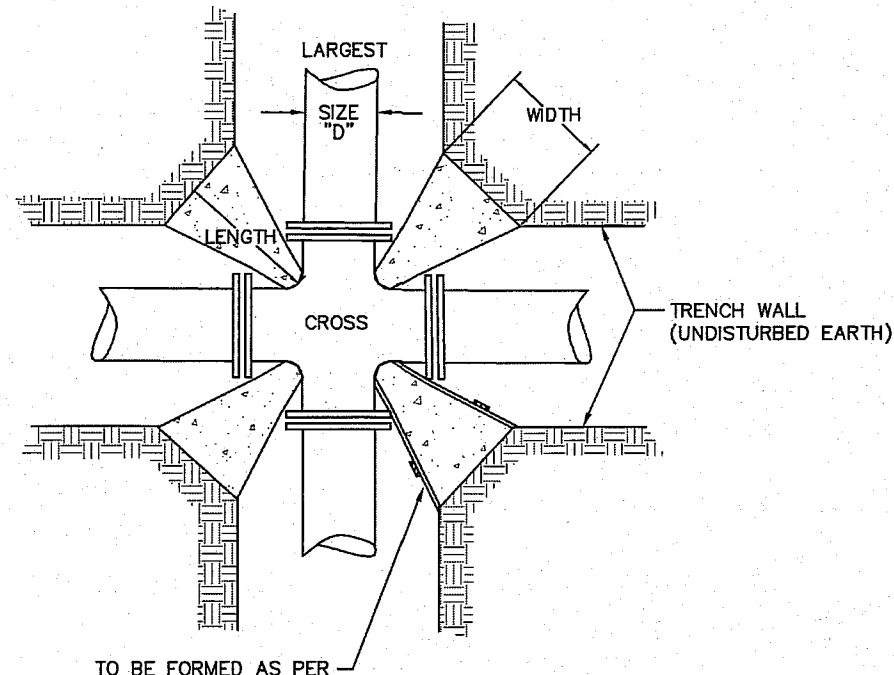
DATE
7-21-10
SHEET
30



"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-0"	1'-0"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

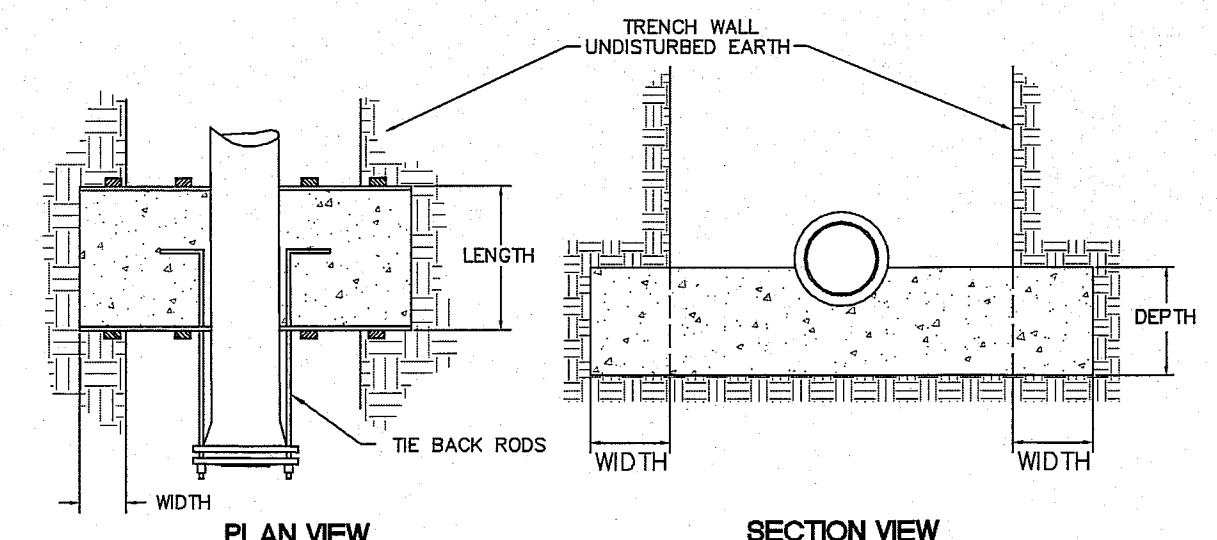
VOL. = Approx. Volume of Blocking Material Required in cu. ft.

SOIL BEARING CAPACITY 1500 PSF MINIMUM
100 P.S.I. OPERATING PRESSURE



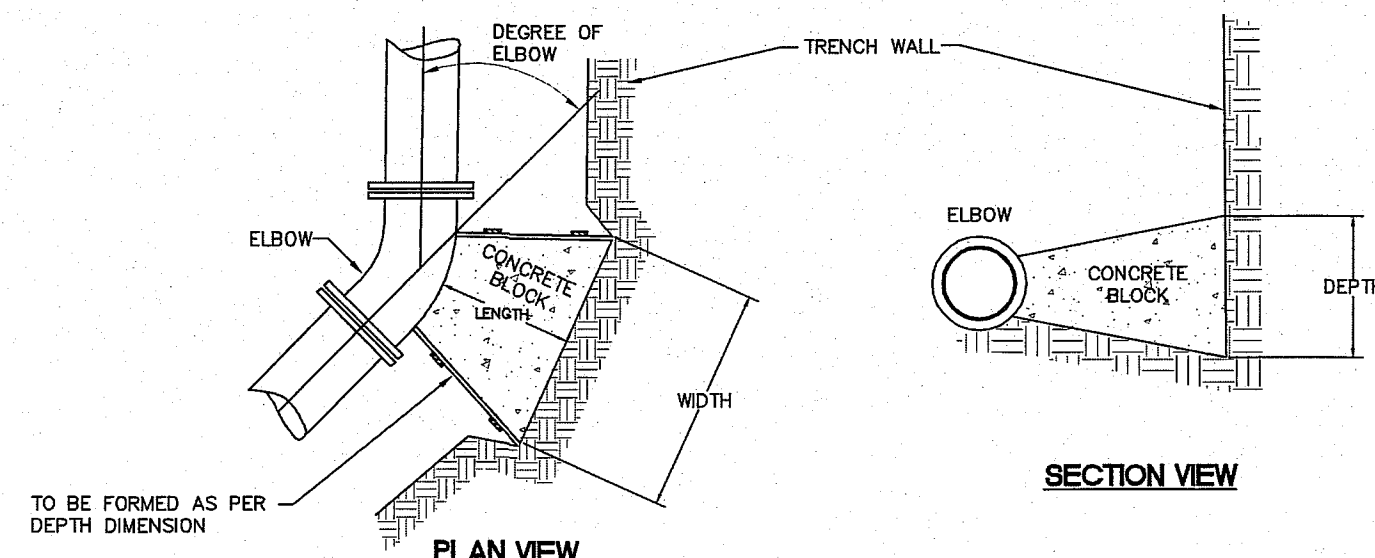
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu. ft.
8"	1'-3"	1'-3"	12"	1.00	4.01 cu. ft.
10"	1'-6"	1'-6"	12"	1.63	6.50 cu. ft.
12"	1'-9"	1'-9"	18"	3.05	12.19 cu. ft.

VOL. = Approx. Volume of Blocking Material Required in cu. ft.



"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

*VOL. = Approx. Volume of Blocking Material Required in cu. ft.
RODS: A36 STEEL MINIMUM

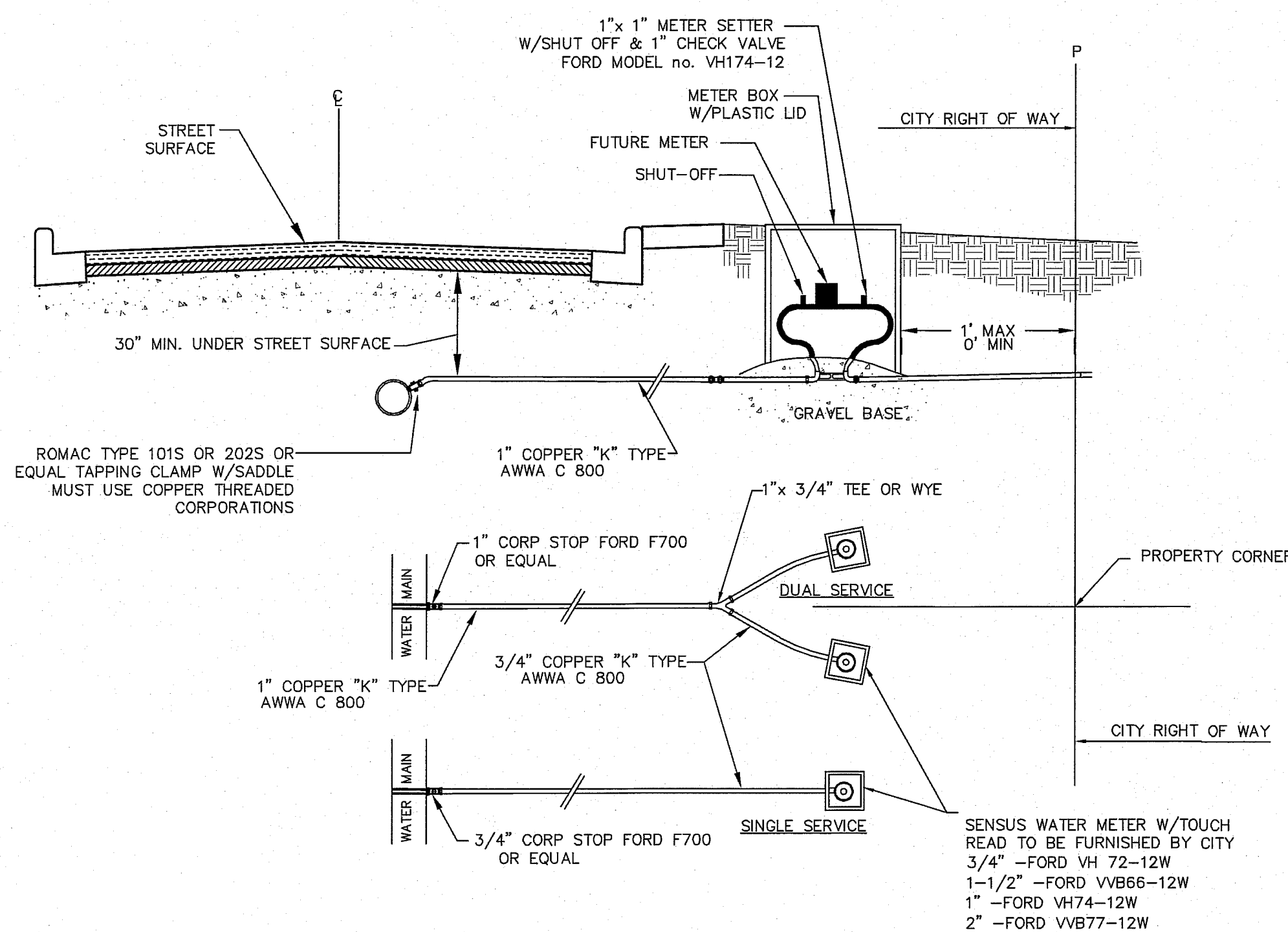


SIZE	LENGTH	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.
6"	12"	1'-0"	1'-0"	0.63	1'-0"	1'-0"	0.63	1'-6"	1'-6"	1.25	2'-3"	1'-6"	1.88
8"	12"	1'-3"	1'-3"	1.00	1'-3"	1'-3"	1.00	1'-9"	1'-9"	1.75	3'-0"	2'-0"	3.33
10"	12"	1'-9"	1'-6"	1.72	1'-9"	1'-6"	1.72	2'-3"	2'-3"	2.88	3'-6"	2'-6"	4.86
12"	18"	2'-0"	1'-9"	3.48	2'-0"	1'-9"	3.48	2'-9"	2'-9"	5.98	4'-0"	3'-0"	10.00

VOL. = Approx. Volume of Blocking Material Required in cu. ft.

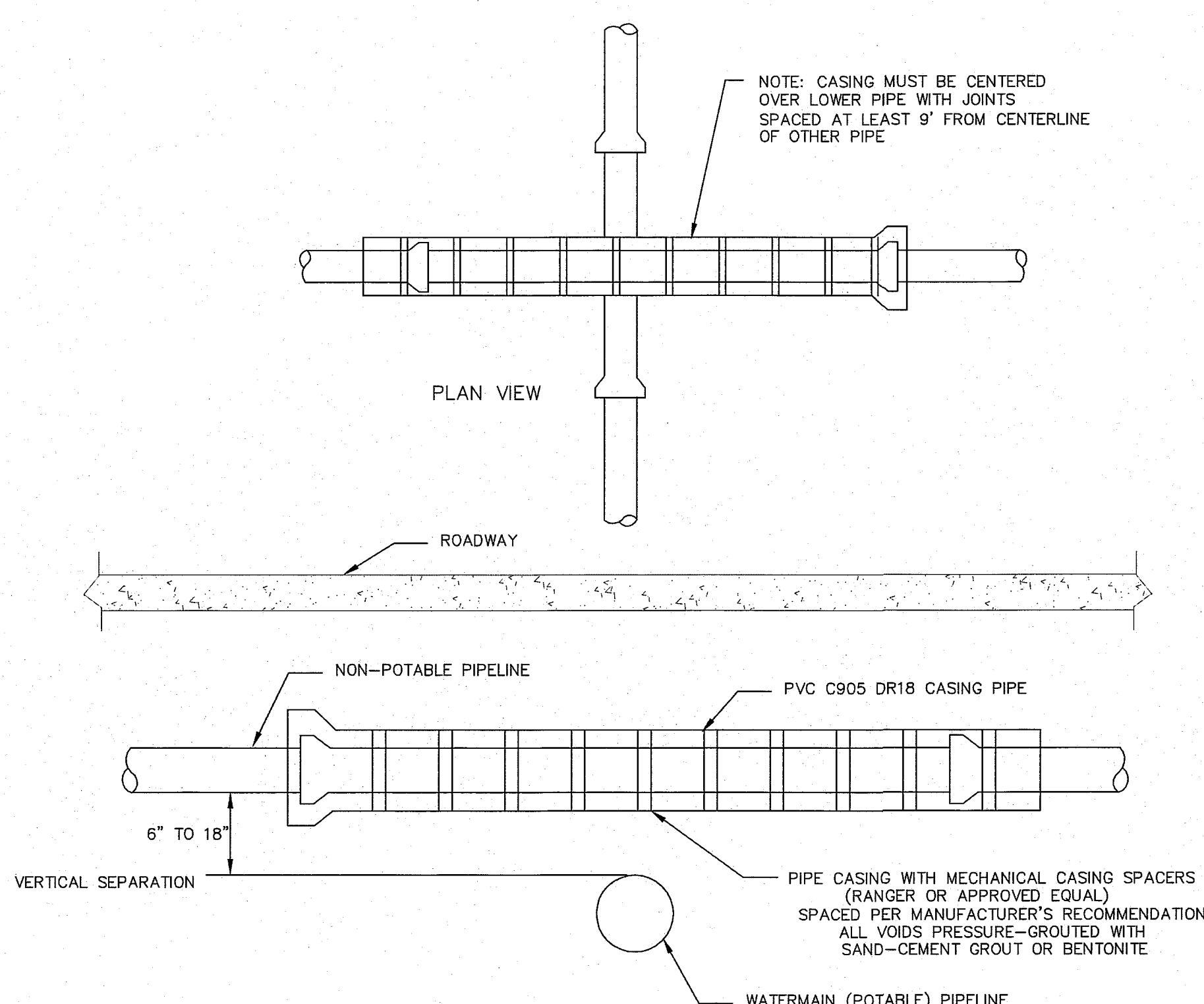
THRUST BLOCKING

NTS



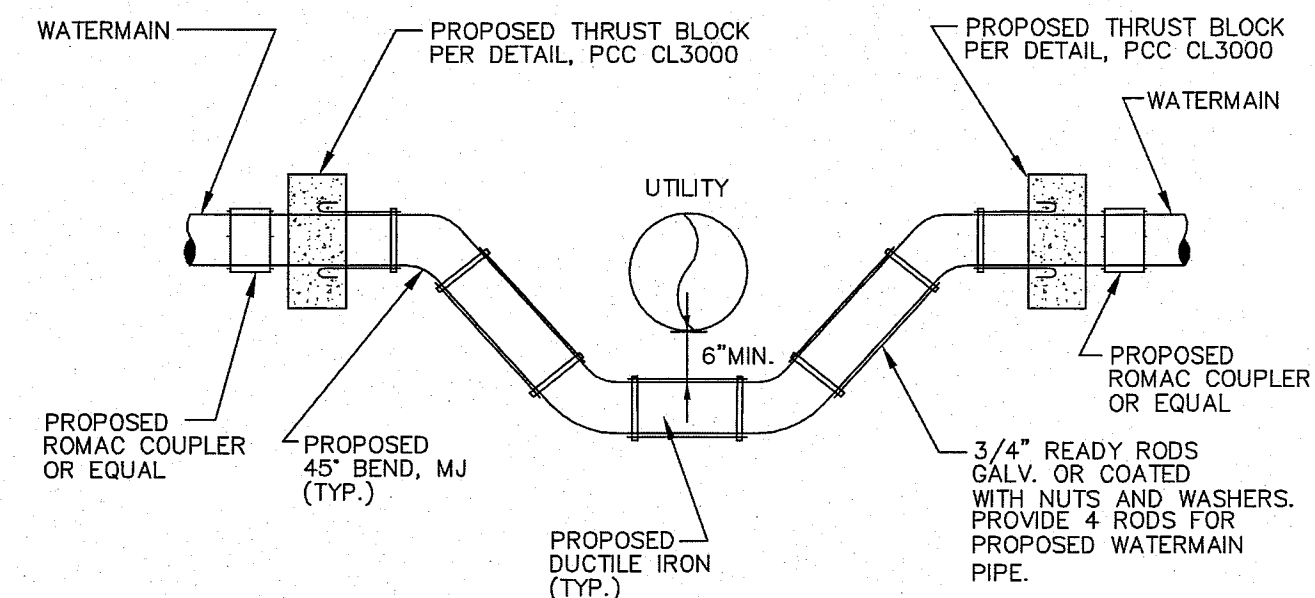
WATER SERVICE CONNECTION DETAIL

NTS



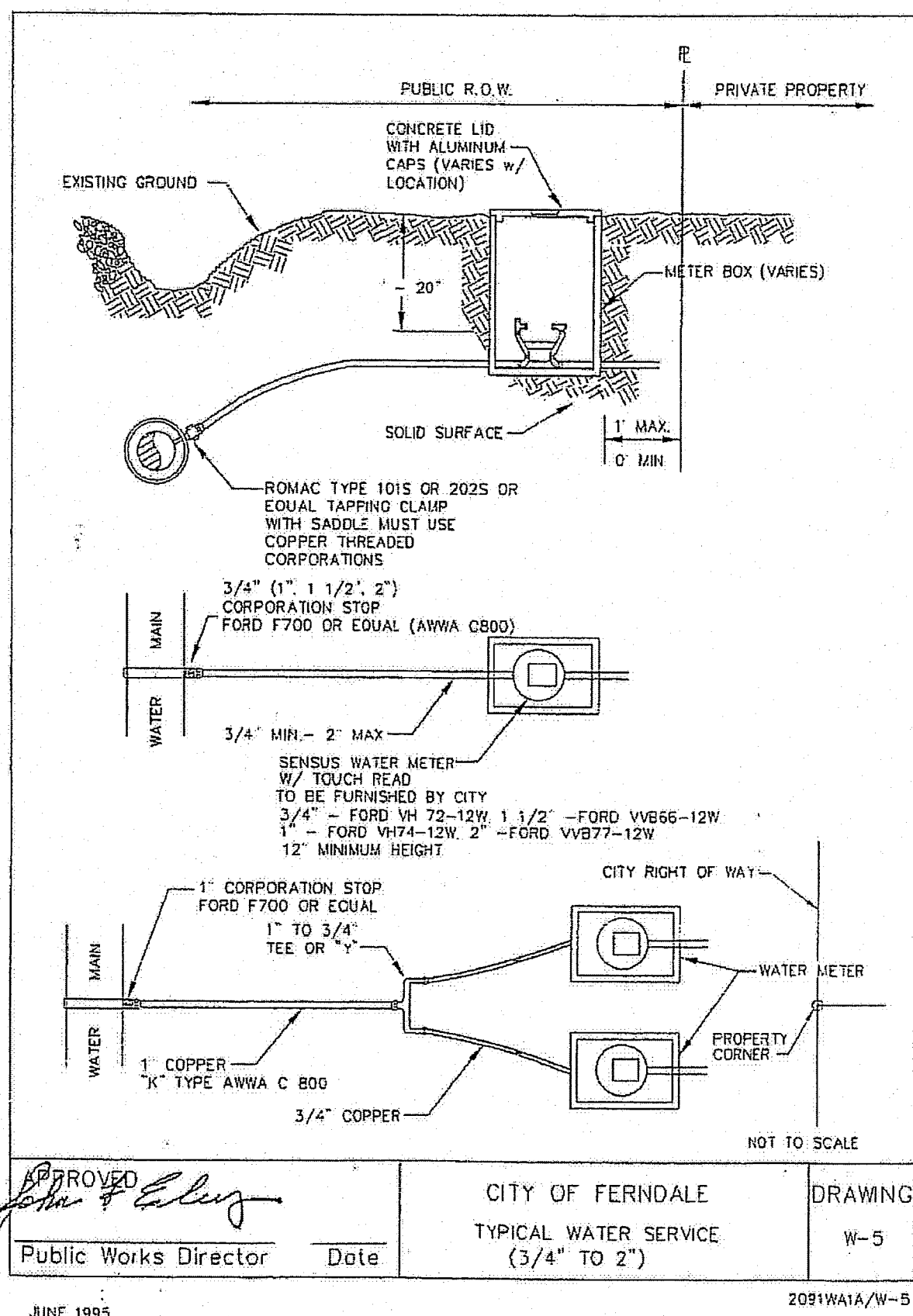
NON-POTABLE WATER MAIN ABOVE NONPOTABLE PIPELINE PIPE SEPARATION DETAIL

NTS



WATERMAIN STOVEPIPE

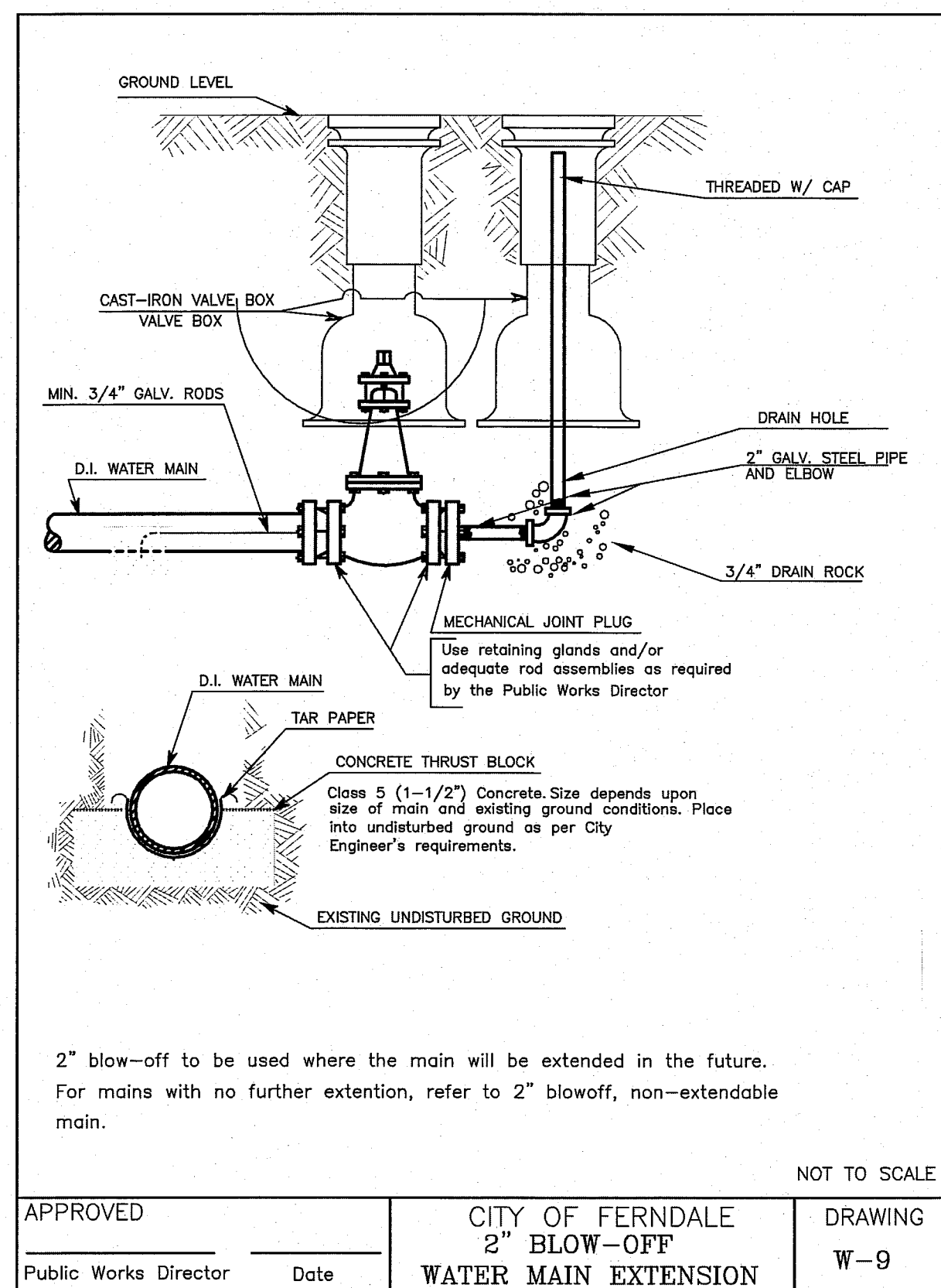
NTS



APPROVED
Public Works Director
Date

CITY OF FERDALE
TYPICAL WATER SERVICE
(3/4" TO 2")

DRAWING
W-5
2091WA1A/W-5

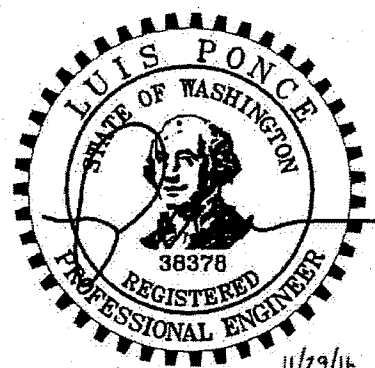


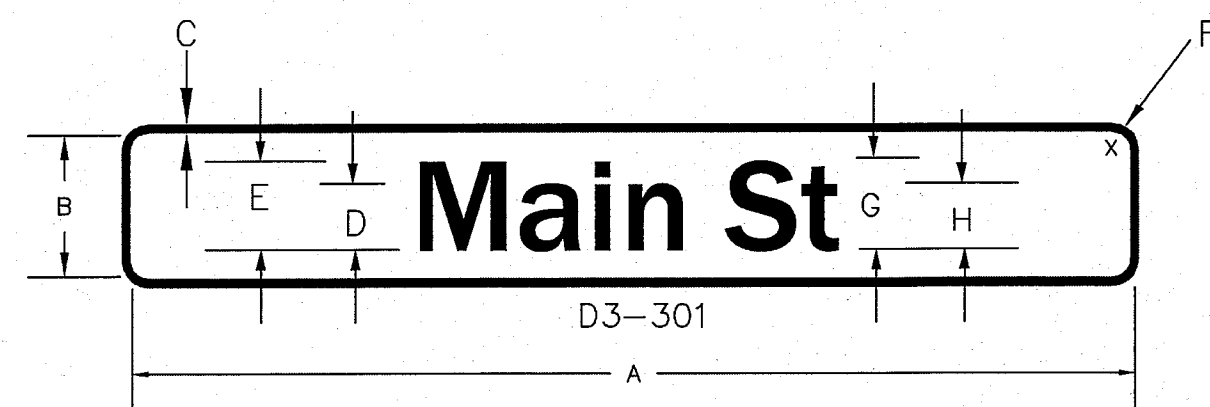
APPROVED
Public Works Director
Date

CITY OF FERDALE
2" BLOW-OFF
WATER MAIN EXTENSION

DRAWING
W-9

SUBMITTED WITH
DESIGN PLAN





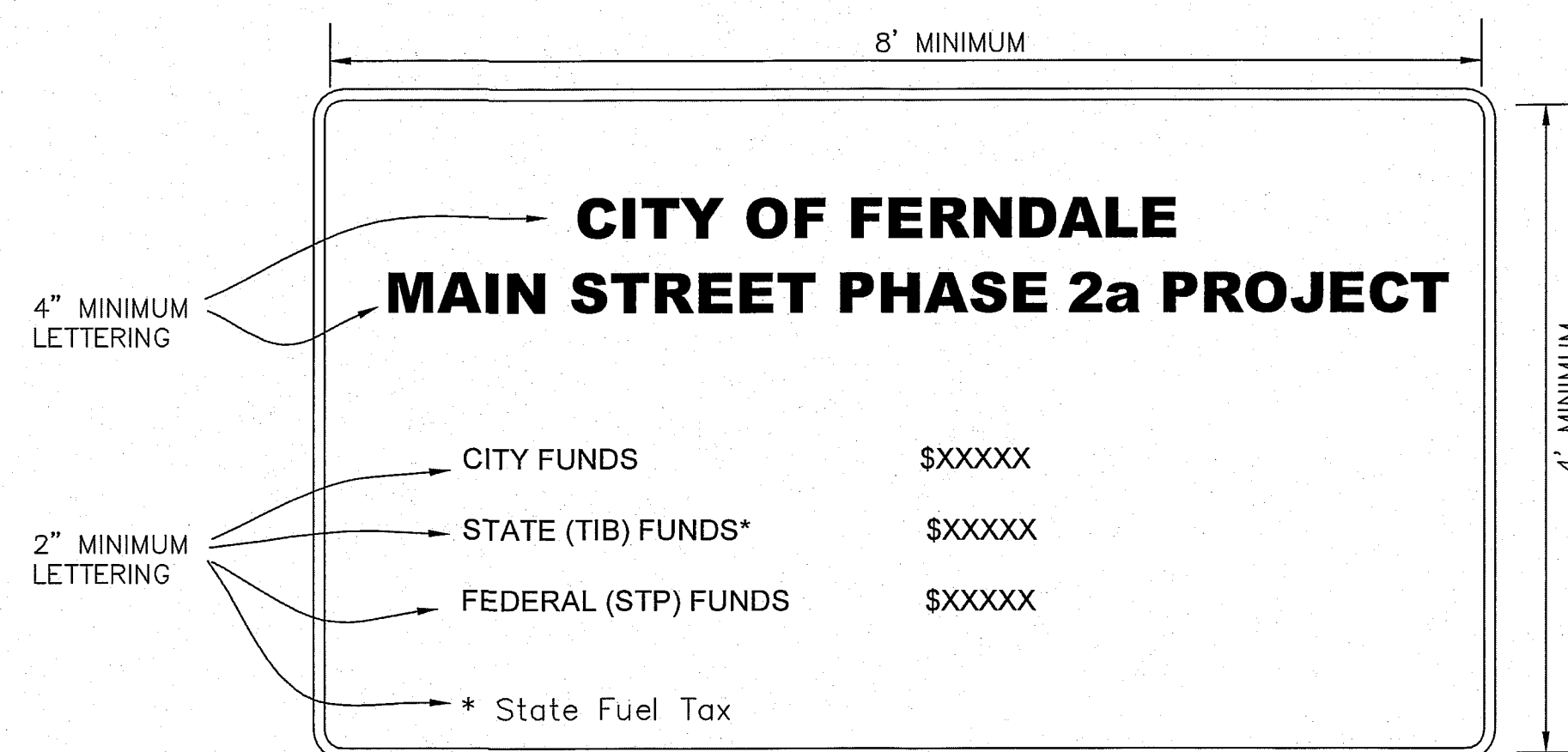
SIGNING DETAILS (TYP)

DIMENSIONS (INCHES)							
A	B	C	D	E	F	G	H
VA	6	5/8	3	4	1 1/2	3	2 1/4

COLORS

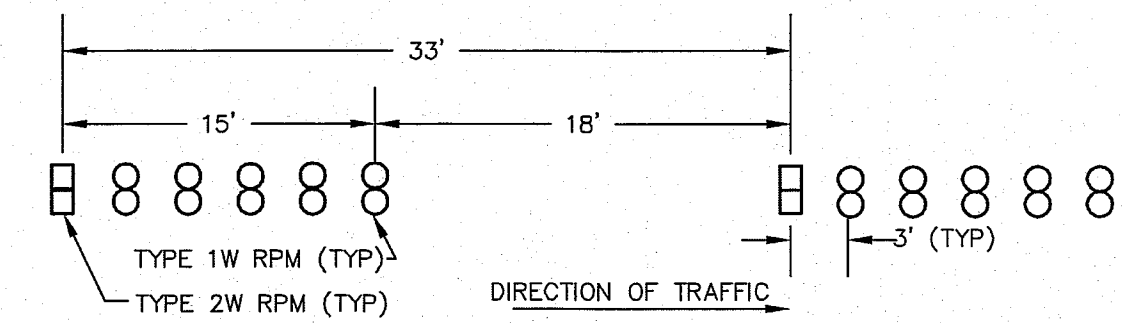
LEGEND — WHITE (REFL)
BACKGROUND — GREEN (REFL)

TYPICAL SIGN DETAIL



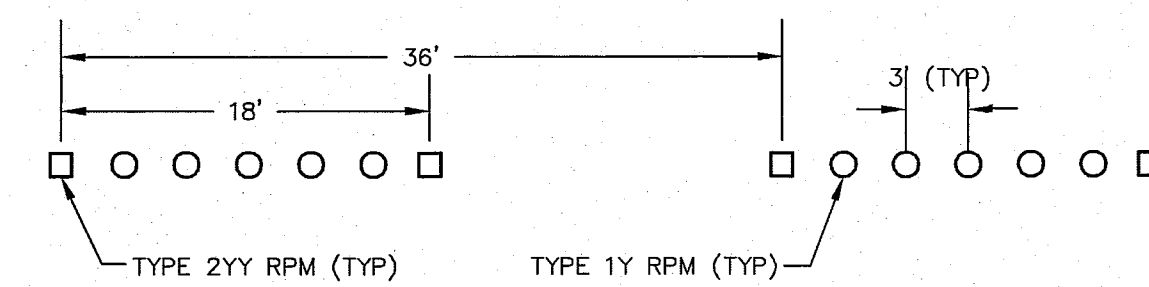
PROJECT SIGNS (2 EACH)

LOCATION AS APPROVED BY ENGINEER



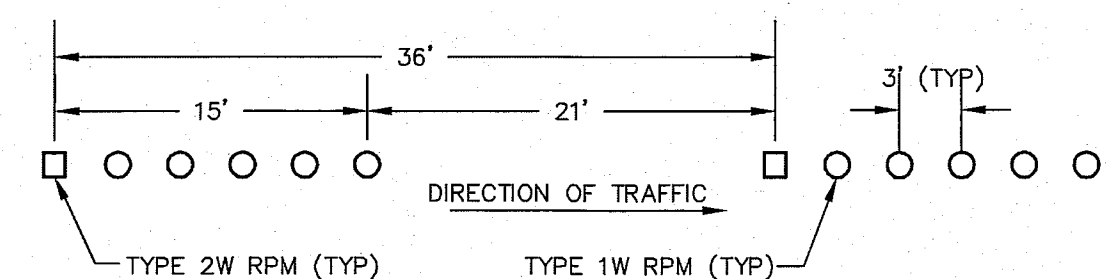
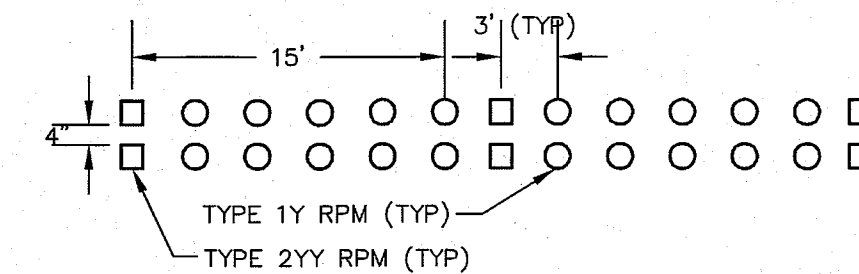
SKIP GORE STRIPE DETAIL

NTS
RAISED PAVEMENT
MARKER SUBSTITUTION
PER CITY OF FERNDAL



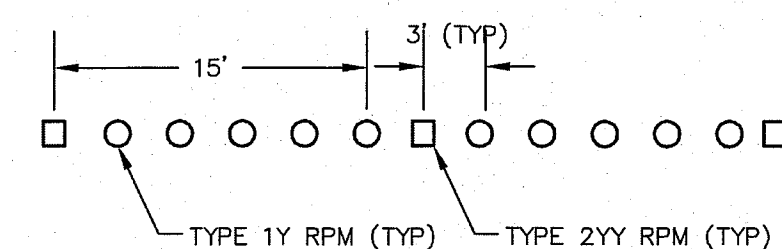
SKIP CENTER STRIPE DETAIL

NTS
RAISED PAVEMENT
MARKER SUBSTITUTION
PER CITY OF FERNDAL



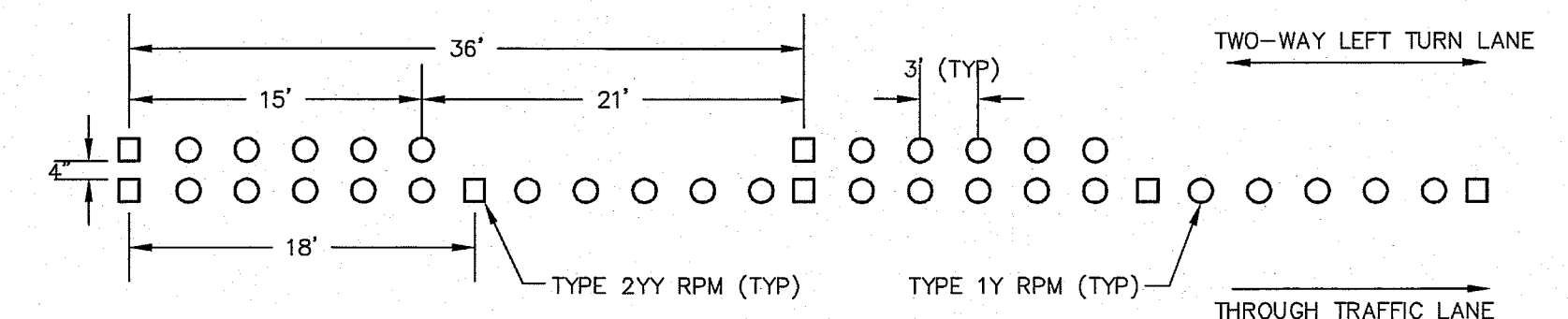
LANE STRIPE DETAIL

NTS
RAISED PAVEMENT
MARKER SUBSTITUTION
PER CITY OF FERNDAL



NO PASS STRIPE

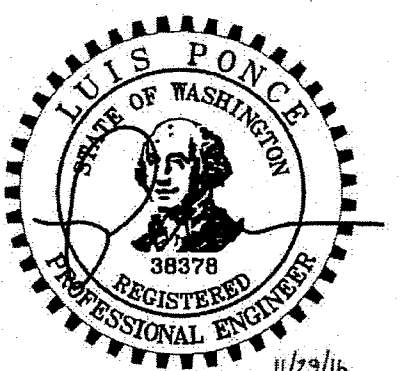
NTS
RAISED PAVEMENT
MARKER SUBSTITUTION
PER CITY OF FERNDAL



TWO-WAY LEFT TURN STRIPE DETAIL

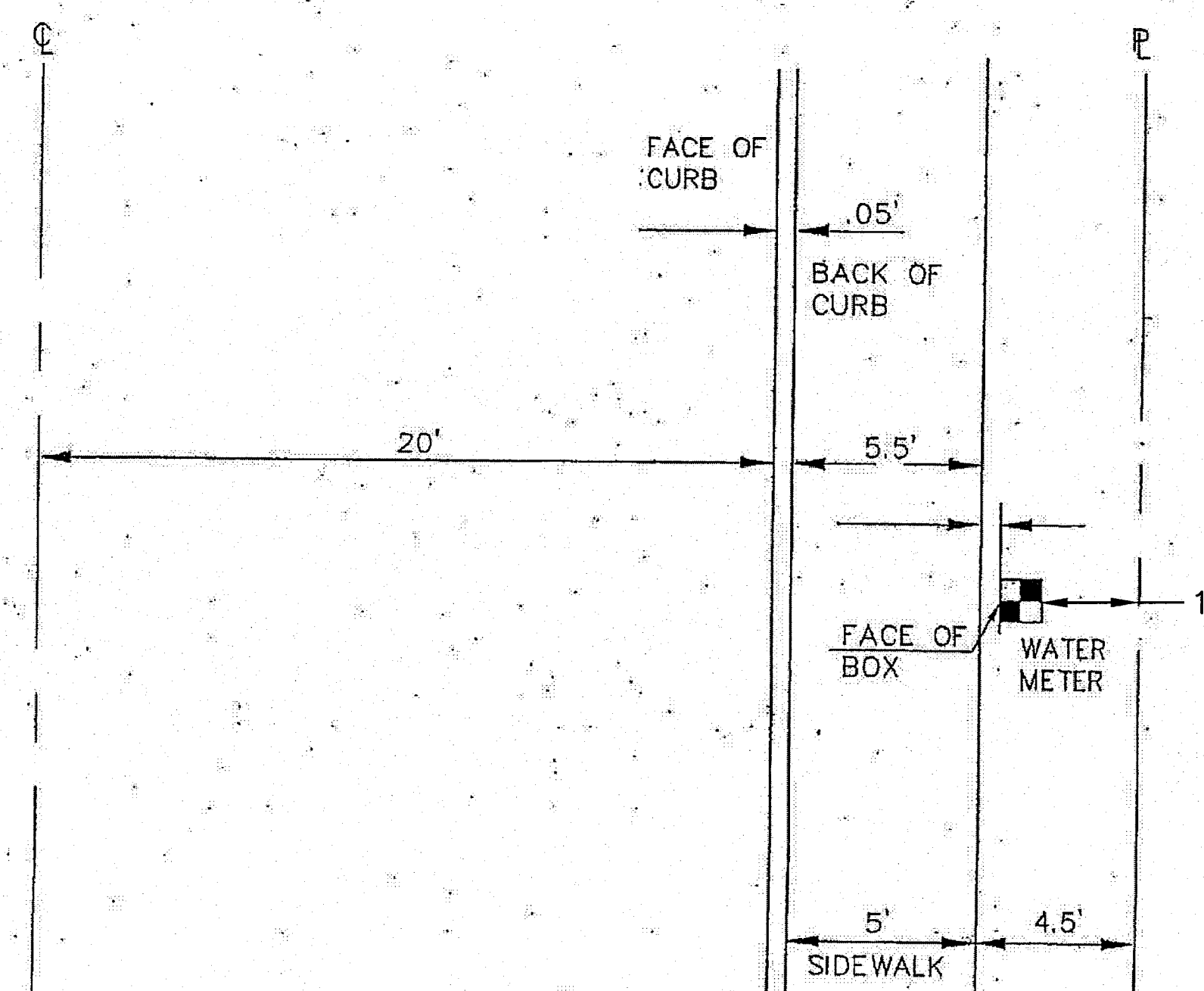
NTS
RAISED PAVEMENT
MARKER SUBSTITUTION
PER CITY OF FERNDAL

SUBMITTED WITH
DESIGN PLAN

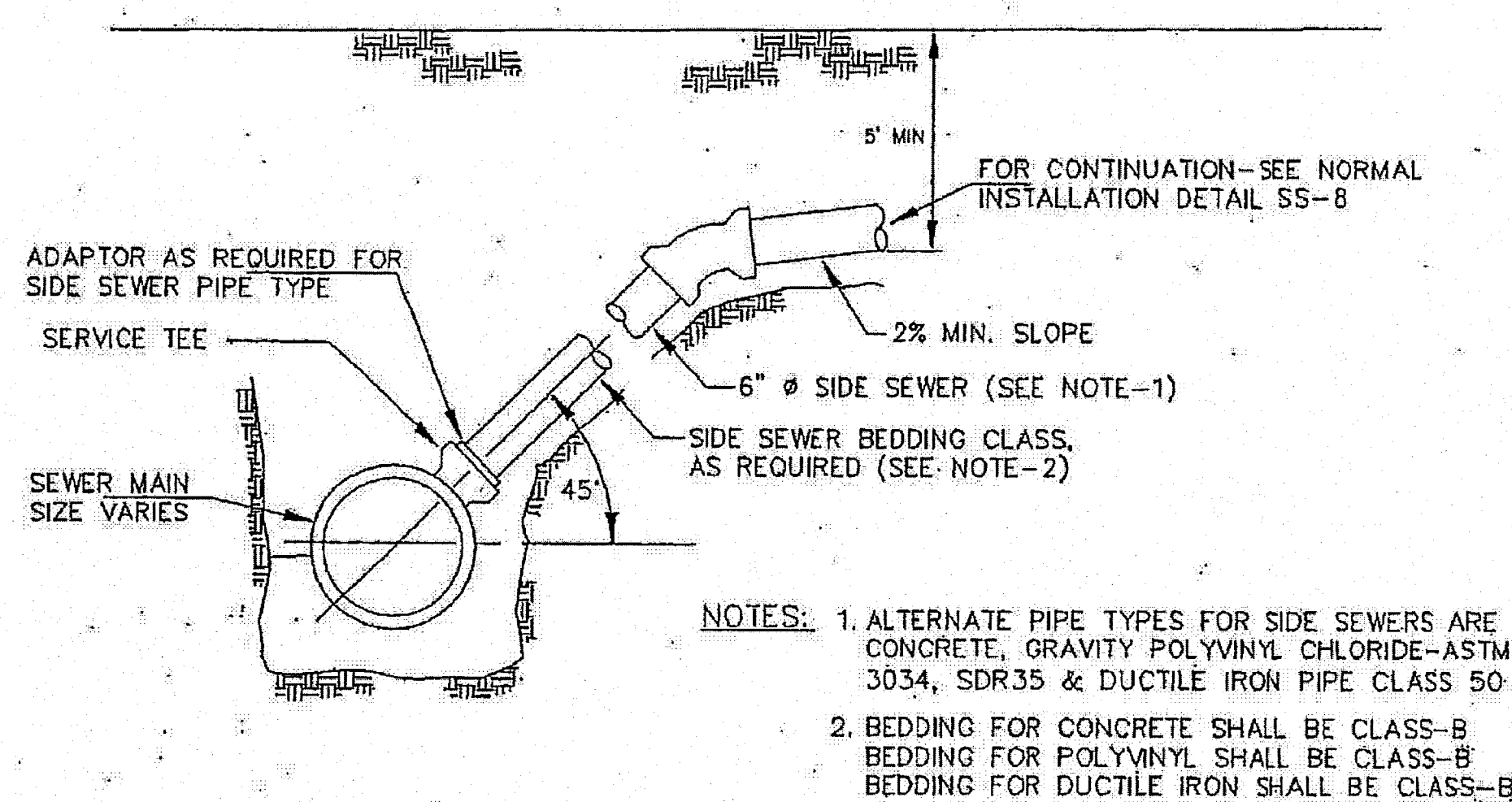


DESIGNED BY LP DRAWN BY LMC CHECKED BY		REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407	NO.	DATE	REVISION	BY	CITY OF FERNDAL PO BOX 936 FERNDAL, WA 98248	MAIN STREET DETAILS	JOB# / DWG 08018 DET		DATE 7-21-10
									SCALE h:n/a v:n/a		SHEET
											32

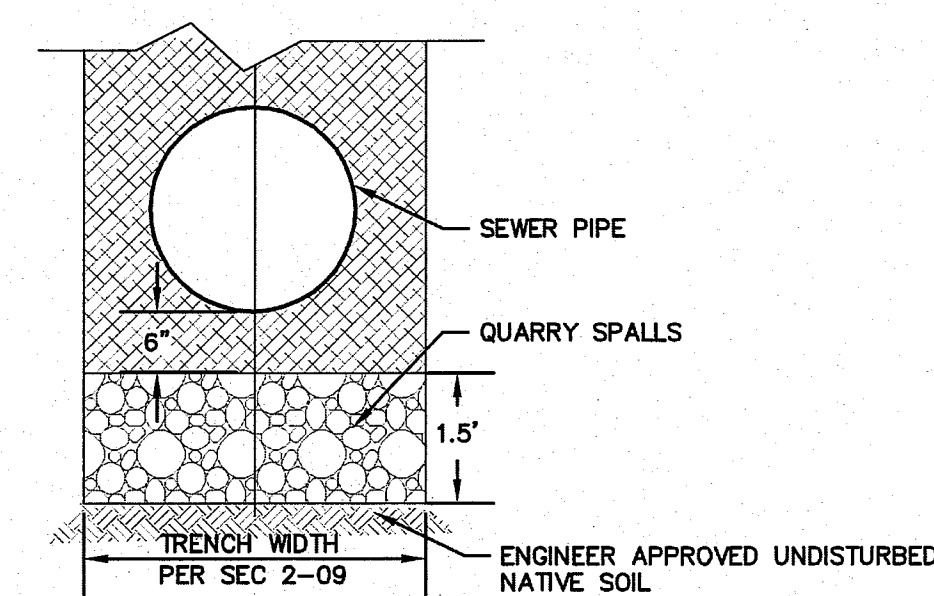
11/29/16 032 12/23/16 54



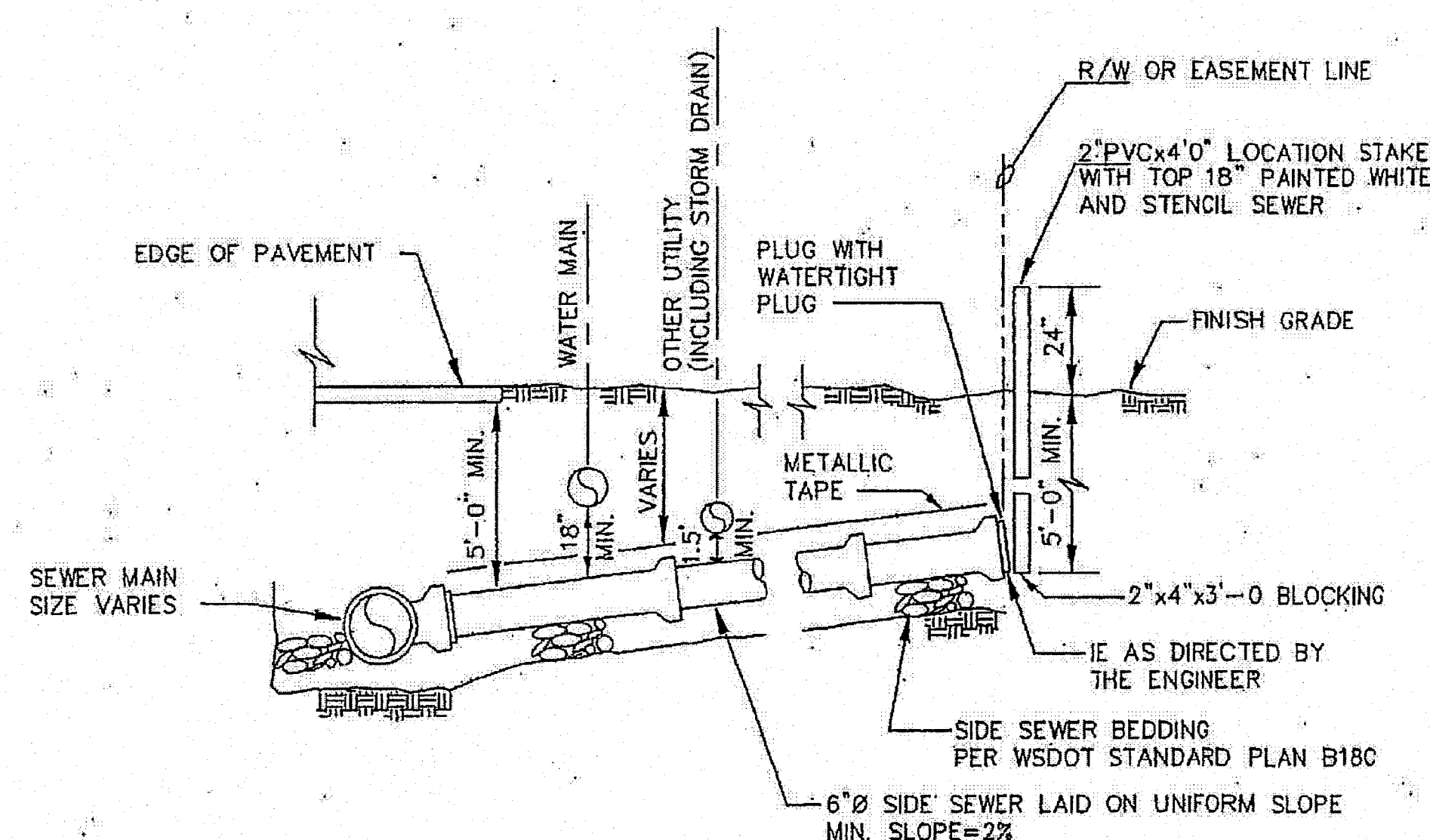
WATERMETER LOCATION DETAIL



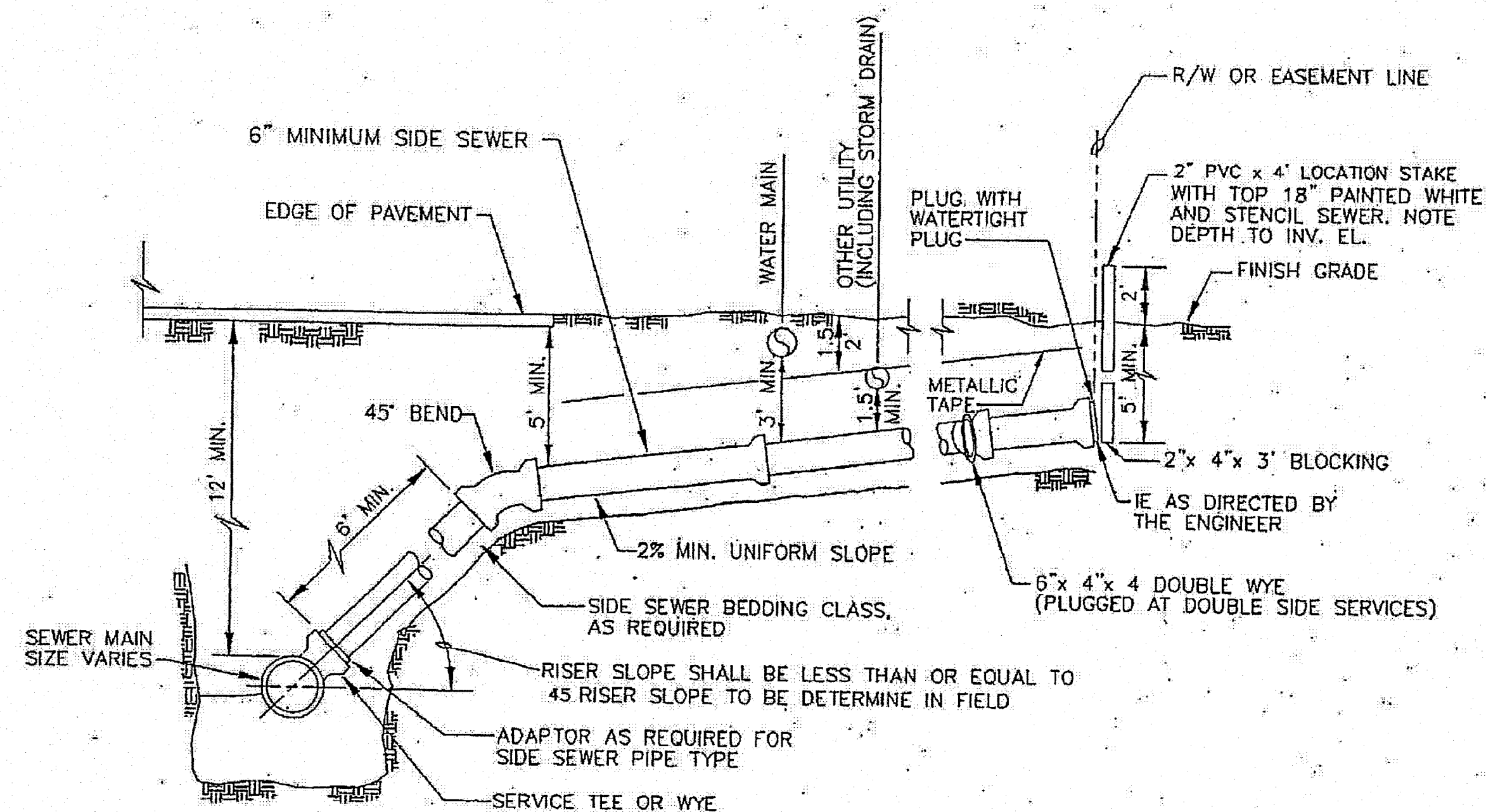
15" AND LARGER SEWER INSTALLATION



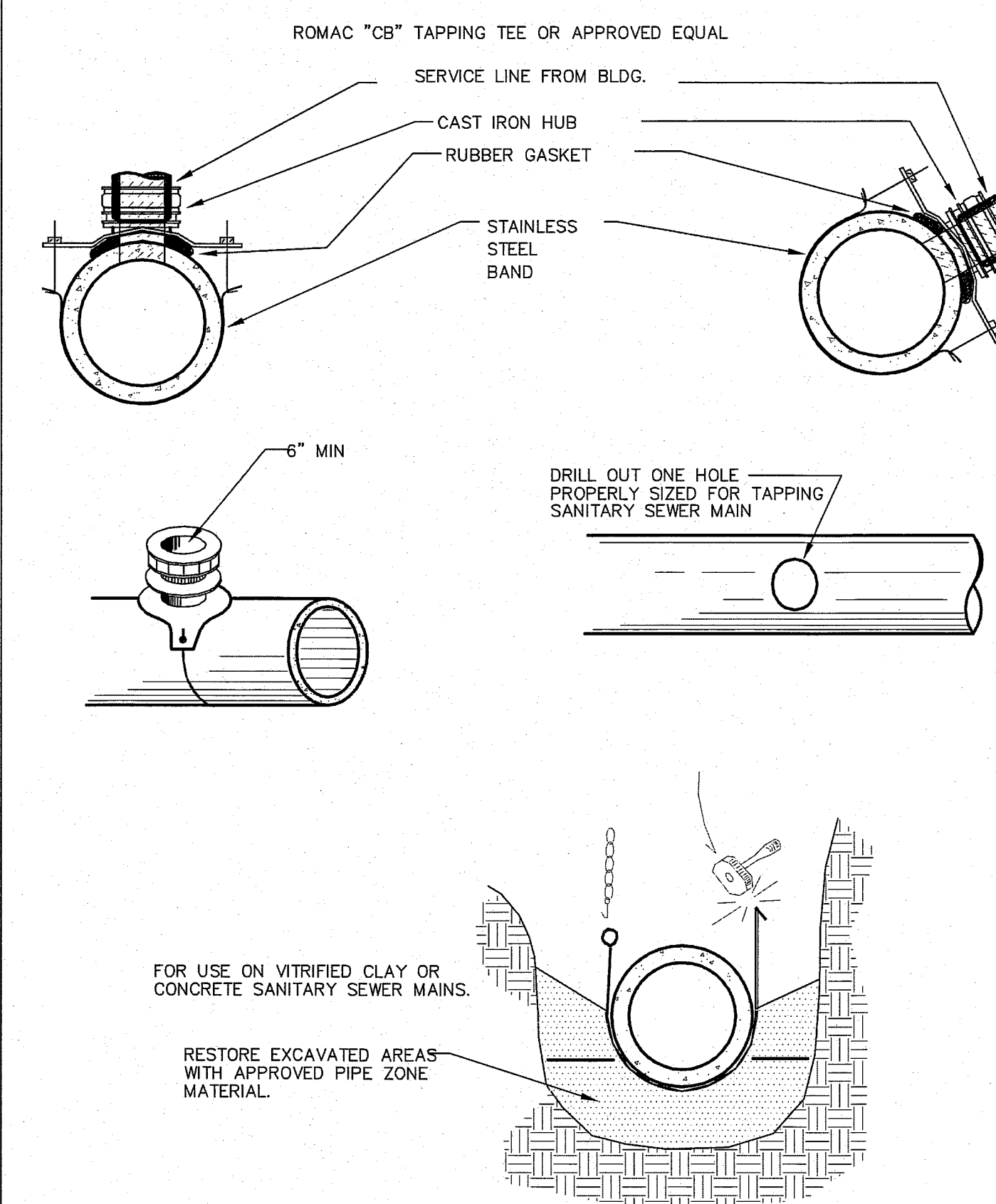
REMOVAL OF UNSUITABLE MATERIAL INCLUDING HAUL TYPICAL SECTION



15" AND SMALLER SEWER INSTALLATION



SANITARY SEWER SIDE SERVICE INSTALLATION, DEEP MAINS



NOT TO SCALE

APPROVED

Public Works Director

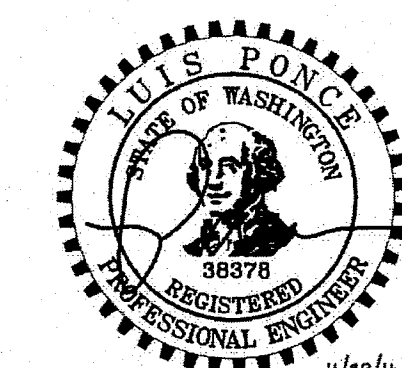
JULY 2005

CITY OF FERNDALE
SANITARY SEWER
BANDED TAPPING TEE

DRAWING
SS-12

25-12

**SUBMITTED WITH
DESIGN PLAN**



4/29

DESIGNED BY	LP
DRAWN BY	LMC
CHECKED BY	

R&E

REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS

PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

NO

DA

10

1

REVISION

BY

CITY OF FERNDALE
PO BOX 936
FERNDALE, WA 98248

MAIN STREET DETAILS

JOB# / DWG

08018

SCALE

 $H:n/a$

179	
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DATE _____

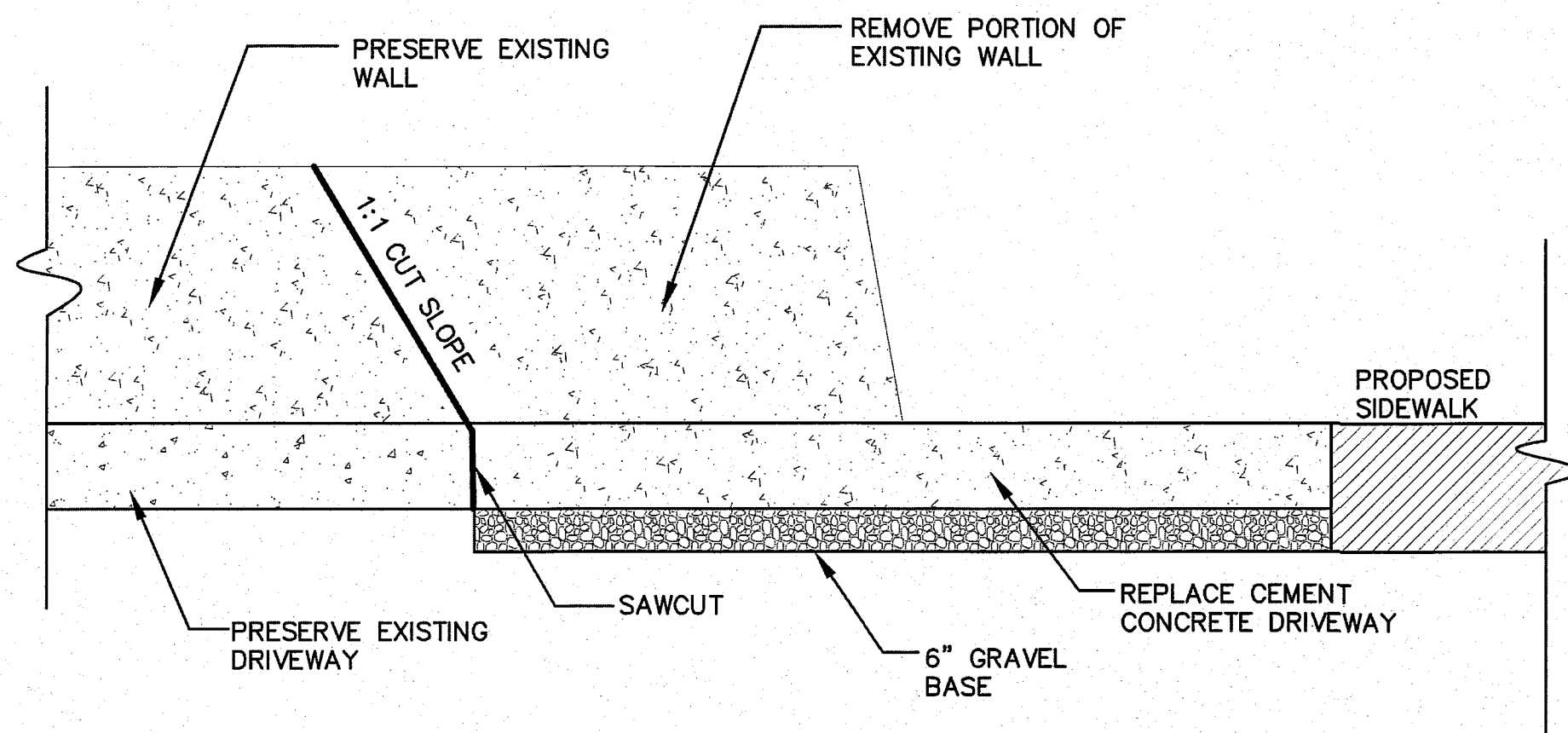
7-21-10

	SHEET
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33

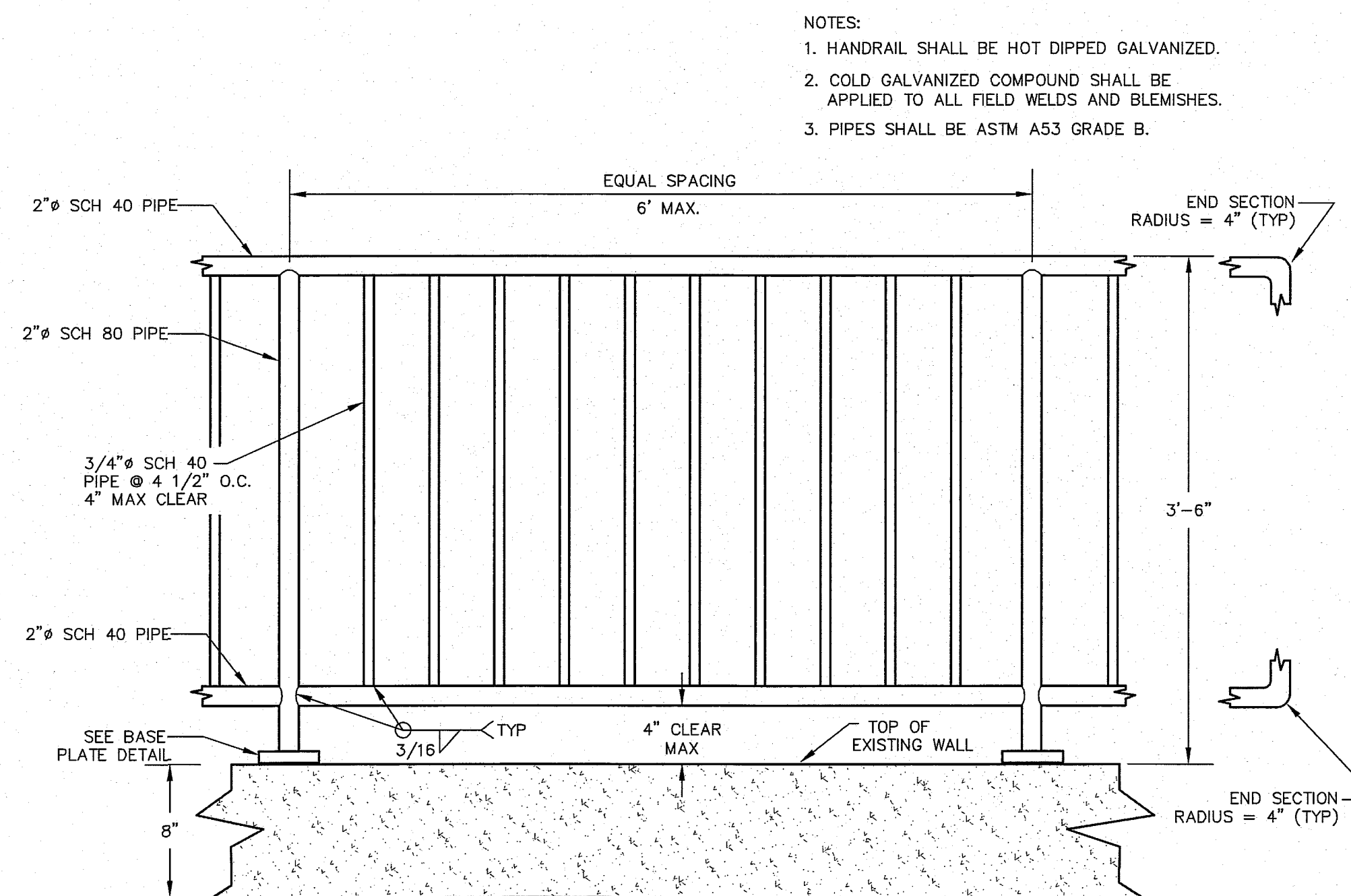
00

45 9/12/21 HSO 0900



SAWCUT WALL TYPICAL DETAIL
STA 47+50, 50'L AND 60'L

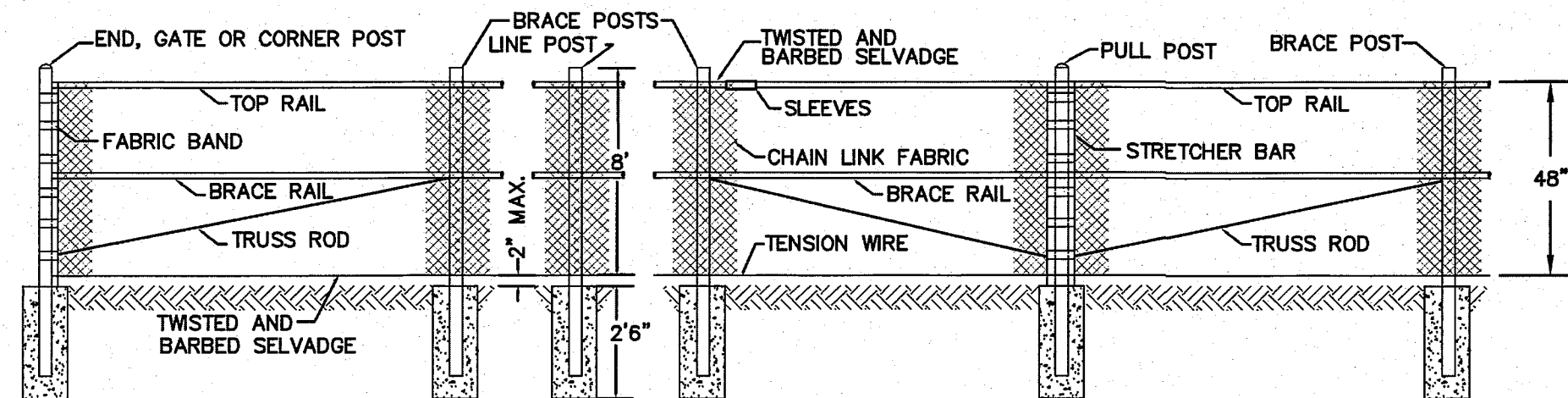
NTS



PEDESTRIAN RAIL DETAIL
APPROX STA 49+85 TO 51+00 LT (MAIN ST)

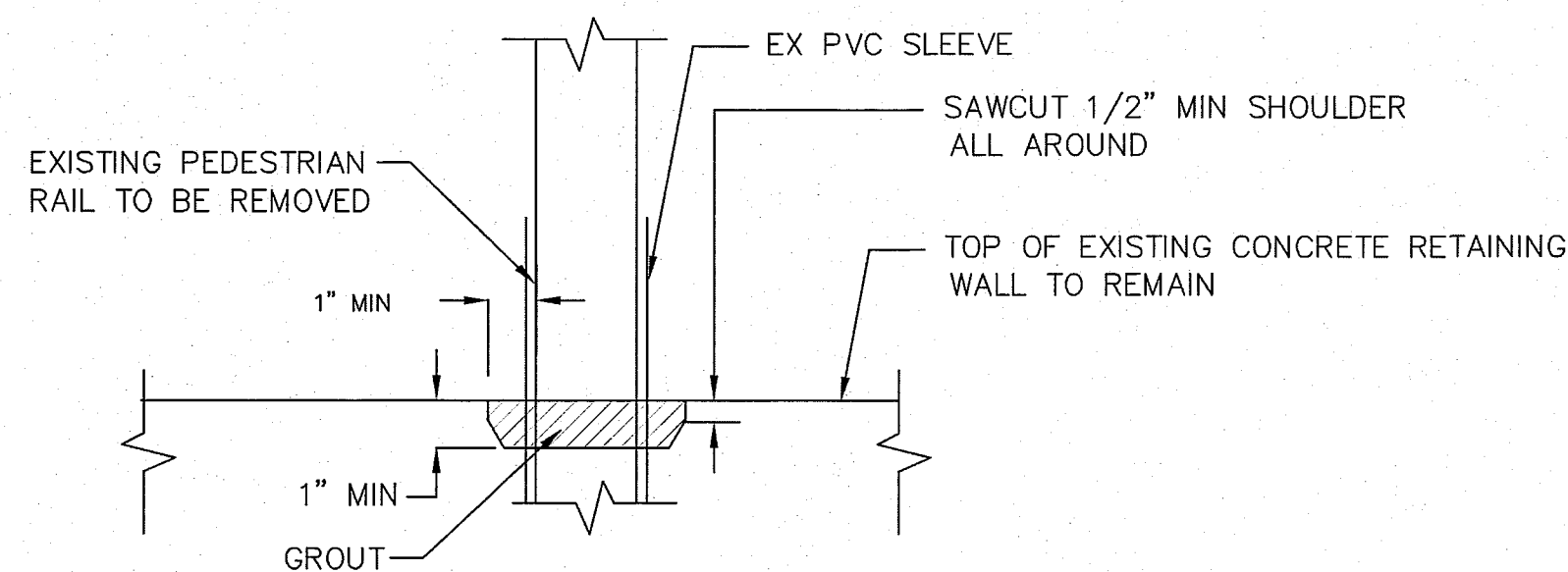
NTS

TYPE	MEMBER																		
	BRACE RAIL & TOP RAIL						LINE & BRACE POST						END, CORNER & PULL POST				GATE POST		ALL POSTS
	ROUND		H-COLUMN		ROLL FORMED		ROUND		H-COLUMN		ROLL FORMED		ROUND		ROLL FORMED		ROUND		
	I.D. PIPE (INCHES)	WEIGHT PER FOOT (POUNDS)	SIZE (INCHES)	WEIGHT PER FOOT (POUNDS)	SIZE (INCHES)	WEIGHT PER FOOT (POUNDS)	I.D. PIPE (INCHES)	WEIGHT PER FOOT (POUNDS)	SIZE (INCHES)	WEIGHT PER FOOT (POUNDS)	SIZE (INCHES)	WEIGHT PER FOOT (POUNDS)	I.D. PIPE (INCHES)	WEIGHT PER FOOT (POUNDS)	SIZE (INCHES)	WEIGHT PER FOOT (POUNDS)	I.D. PIPE (INCHES)	WEIGHT PER FOOT (POUNDS)	
1(MOD)	1 1/4	2.27	1 1/4 x 1 5/8	1.35	1 5/8 x 1 1/4	1.35	2	3.65	2 1/4	4.0	1 5/8 x 1 7/8	2.34	2 1/2	5.79	3 1/2 x 3 1/2	5.14	3 1/2	9.1	6'-6"



CHAIN LINK FENCE TYPE 1 (MOD)

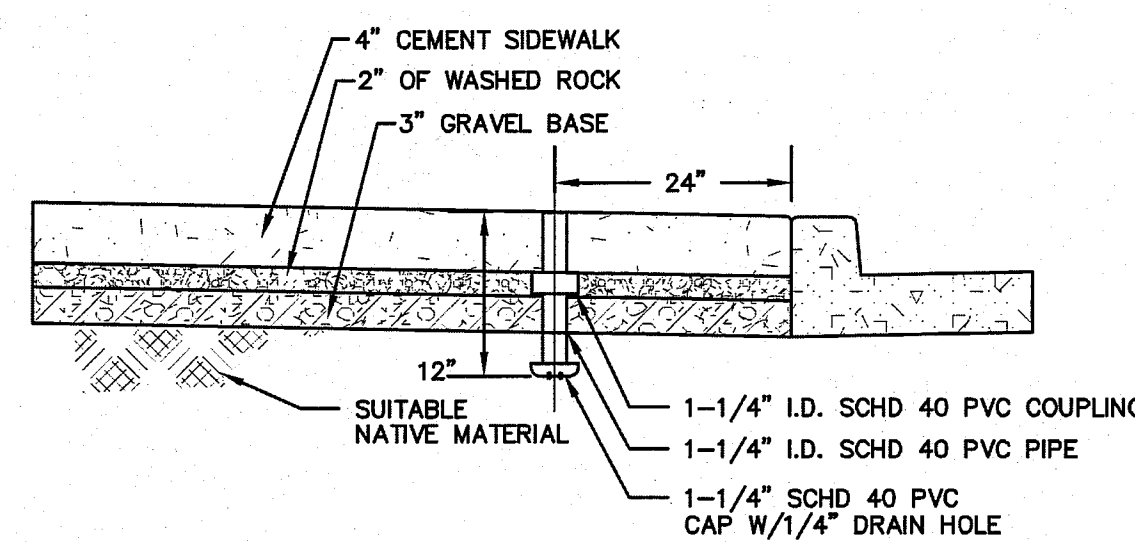
NTS



REMOVAL AND REPAIR OF EXISTING PEDESTRIAN RAIL DETAIL
STA 49+85 LT TO 51+00 LT (MAIN STREET)

NTS

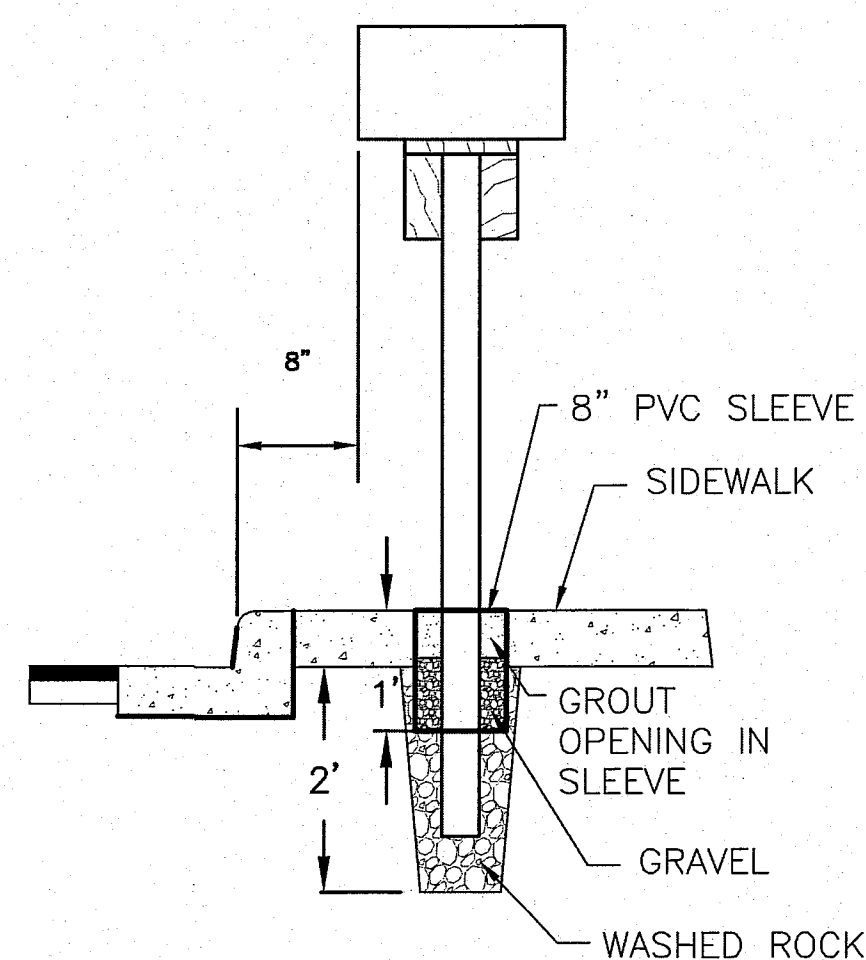
- NOTES:
1. CHIP AND REMOVE CONCRETE AND PEDESTRIAN RAIL AS SHOWN.
 2. ROUGHEN EXPOSED CONCRETE.
 3. GROUT REMOVED CONCRETE AREA.



- NOTES:
1. CONTRACTOR TO INSTALL SLEEVES AS PART OF CONTRACT.
 2. SLEEVE SHALL BE FLUSH TO SIDEWALK SURFACE AND PLUMB.
 3. FLAG SLEEVE PLACEMENT SHALL BE AS DIRECTED BY THE ENGINEER.

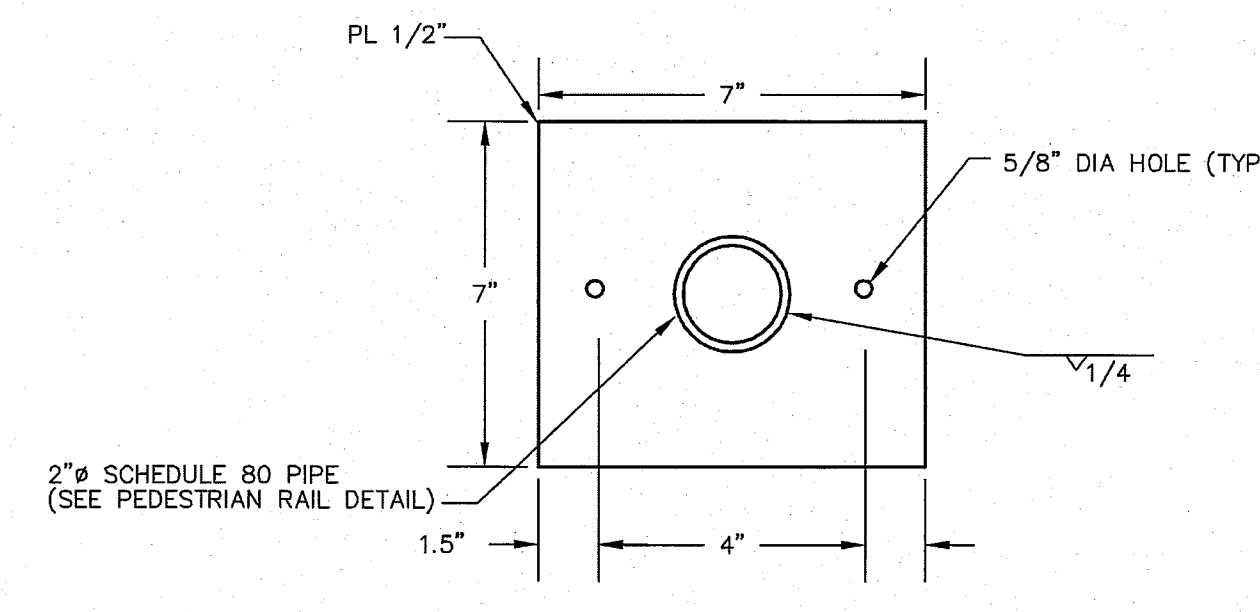
FLAG SLEEVE DETAIL

NTS



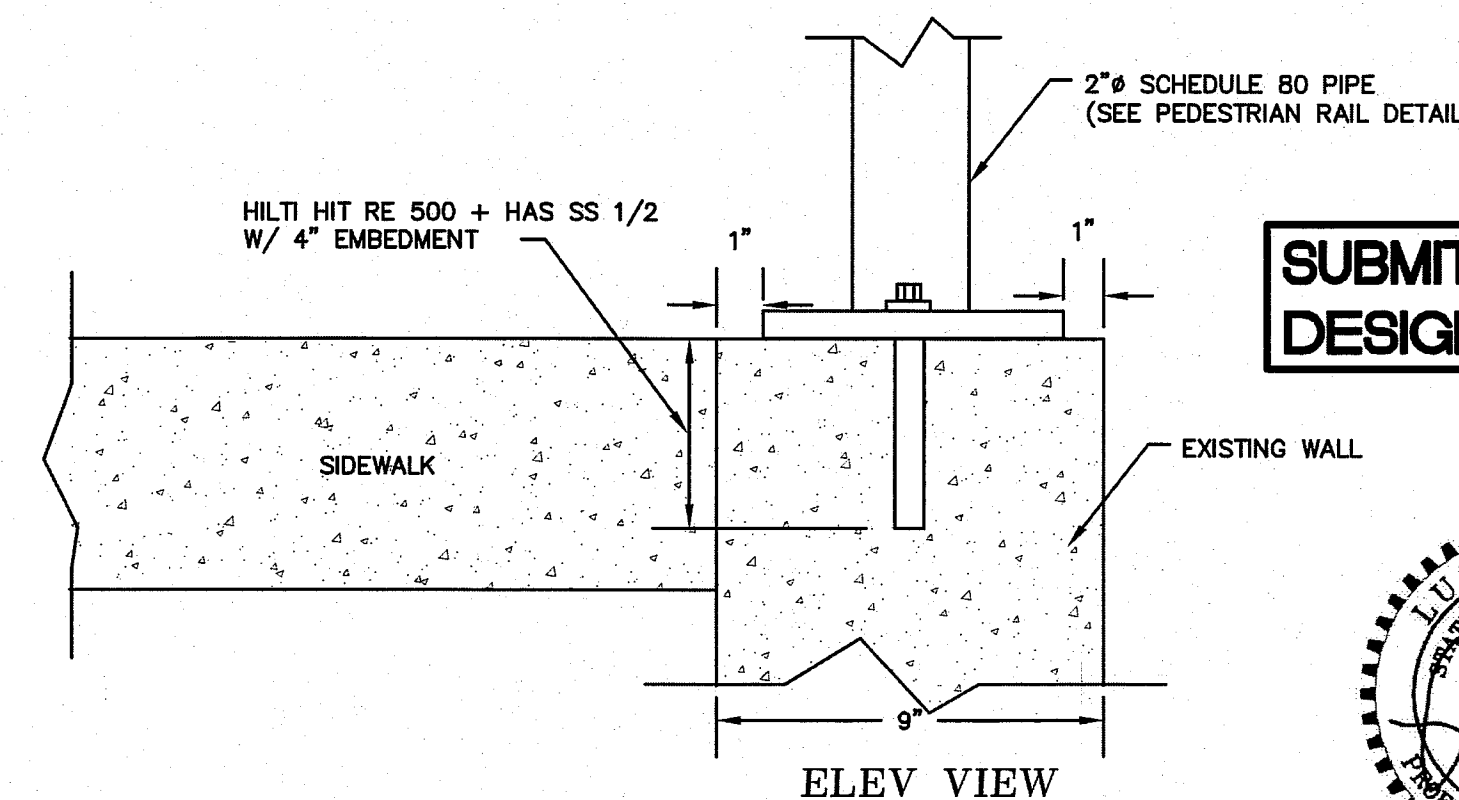
MAILBOX POST DETAIL

NTS



PEDESTRIAN RAIL BASE PLATE

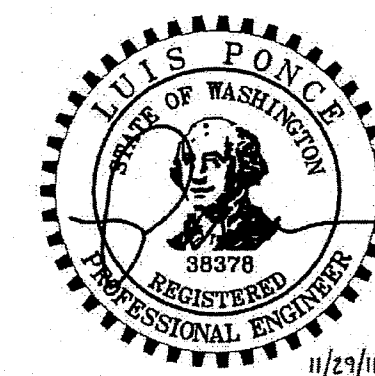
NTS



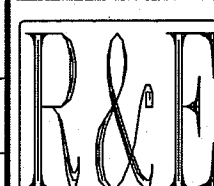
PEDESTRIAN RAIL BASE PLATE
APPROX STA 49+85 TO 51+00 LT (MAIN ST)

NTS

SUBMITTED WITH DESIGN PLAN



DESIGNED BY
LP
DRAWN BY
LMC
CHECKED BY



REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

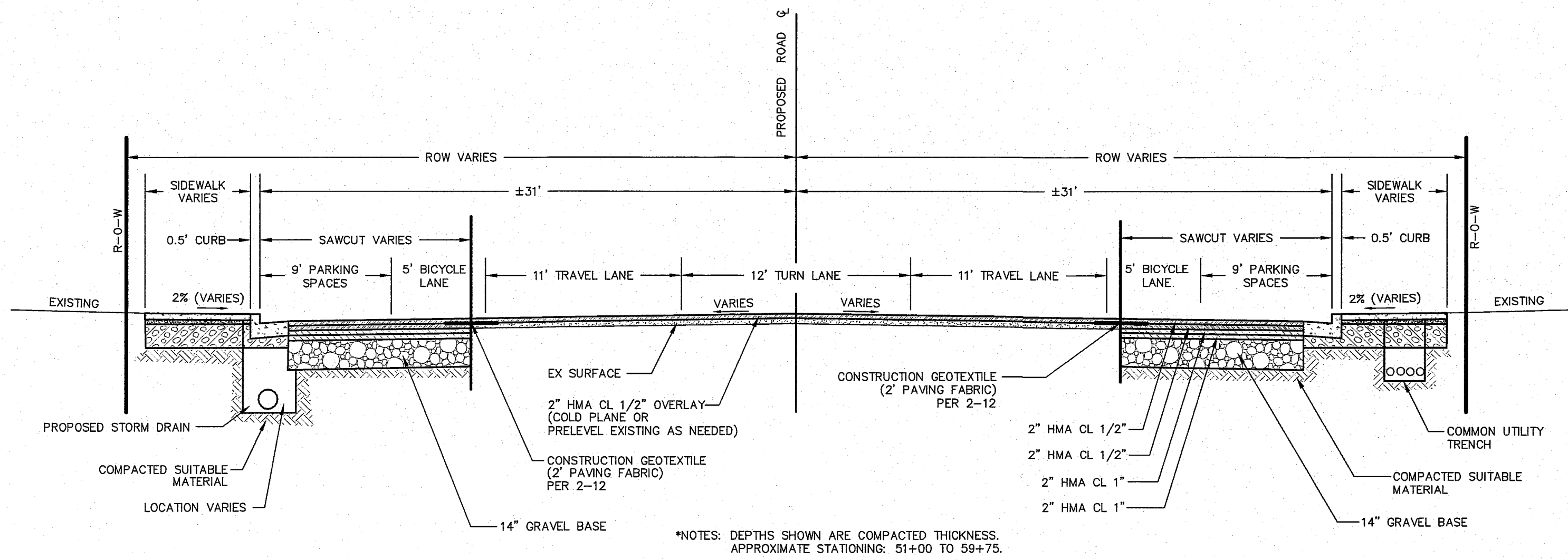
REVISION

BY

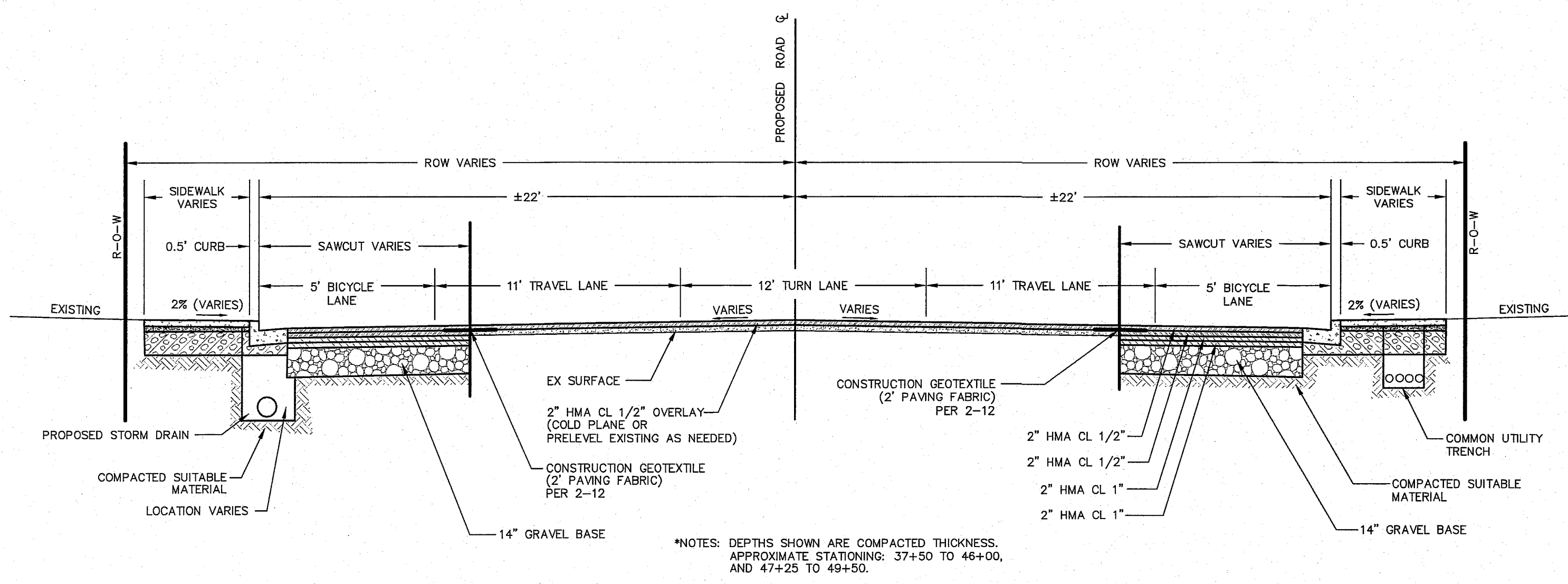
CITY OF FERNDALE
PO BOX 936
FERNDALE, WA 98248

MAIN STREET
DETAILS

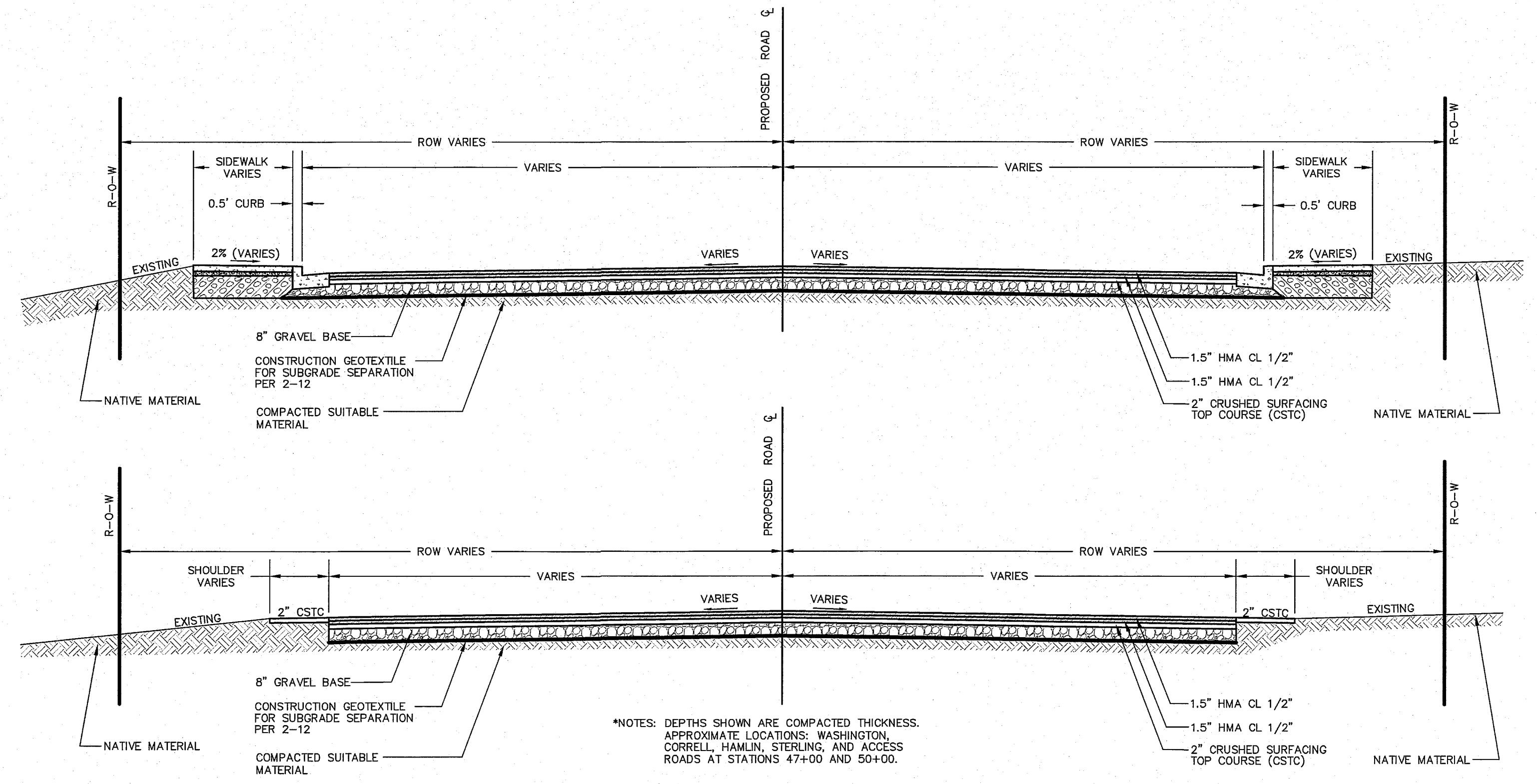
JOB# / DWG	08018	DET	DATE	7-21-10
SCALE	H: N/A	V: N/A	SHEET	34



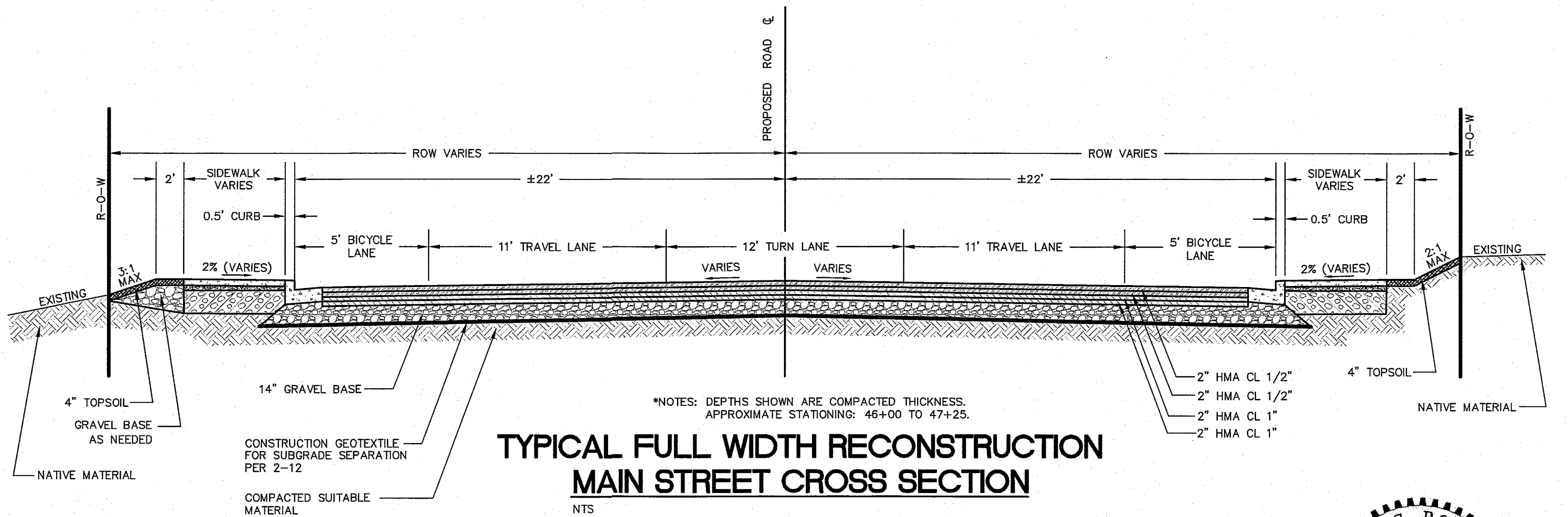
**TYPICAL STREET WIDENING - WITH PARKING
MAIN STREET CROSS SECTION**
NTS



**TYPICAL STREET WIDENING - NO PARKING
MAIN STREET CROSS SECTION**
NTS

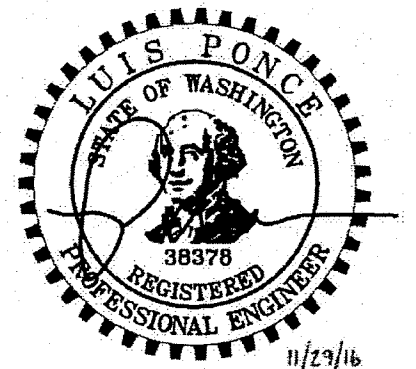


TYPICAL SIDE STREET CROSS SECTION
NTS



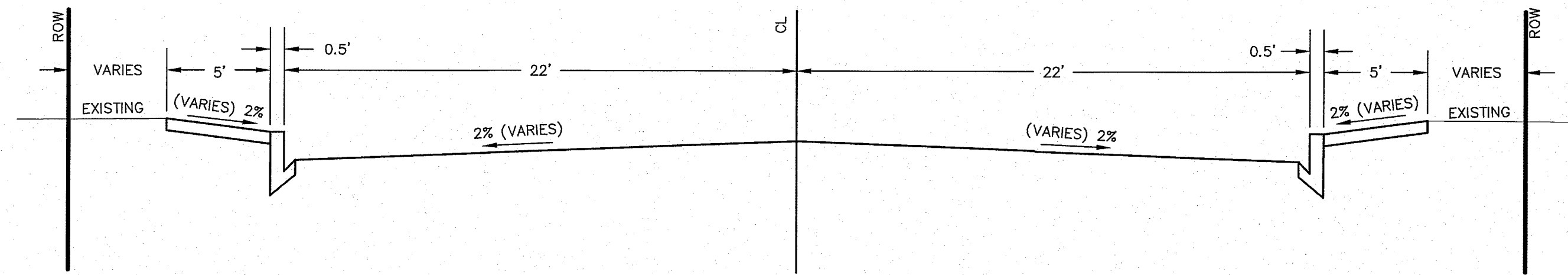
**TYPICAL FULL WIDTH RECONSTRUCTION
MAIN STREET CROSS SECTION**
NTS

**SUBMITTED WITH
DESIGN PLAN**

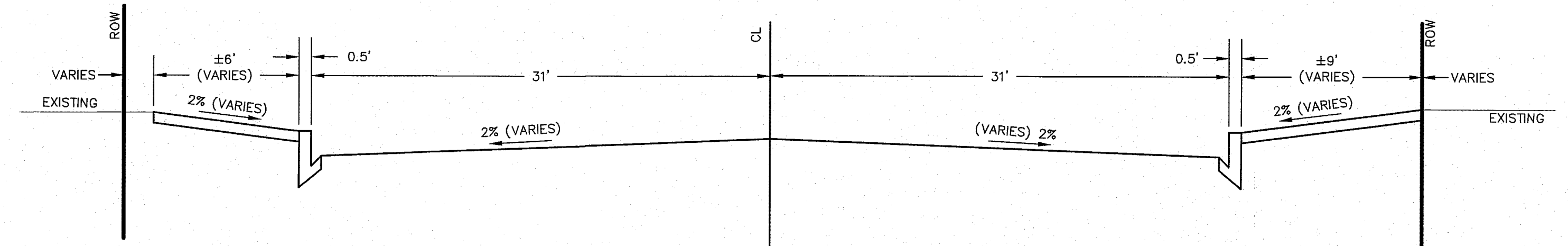


DESIGNED BY LP	 REICHHARDT & EBE <i>ENGINEERING, INC.</i> CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407					CITY OF FERDALE PO BOX 936 FERDALE, WA 98248	MAIN STREET TYPICAL SECTIONS	JOB# / DWG 08018 DET	DATE 7-21-10
DRAWN BY LMC								SCALE H:n/a v:n/a	SHEET 35
CHECKED BY		NO.	DATE	REVISION	BY				

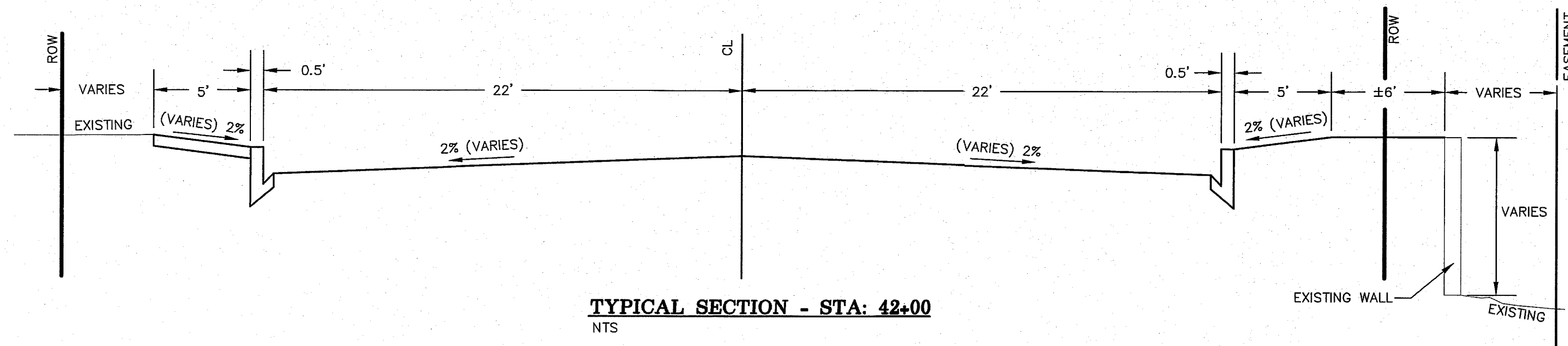
00610.035 12/23/16 ST



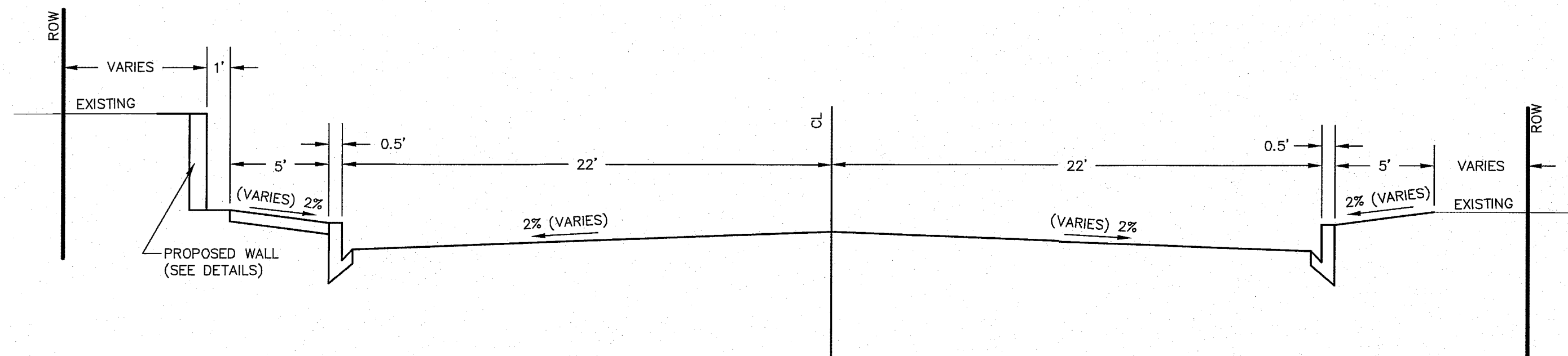
TYPICAL SECTION - STA: 39+00
NTS



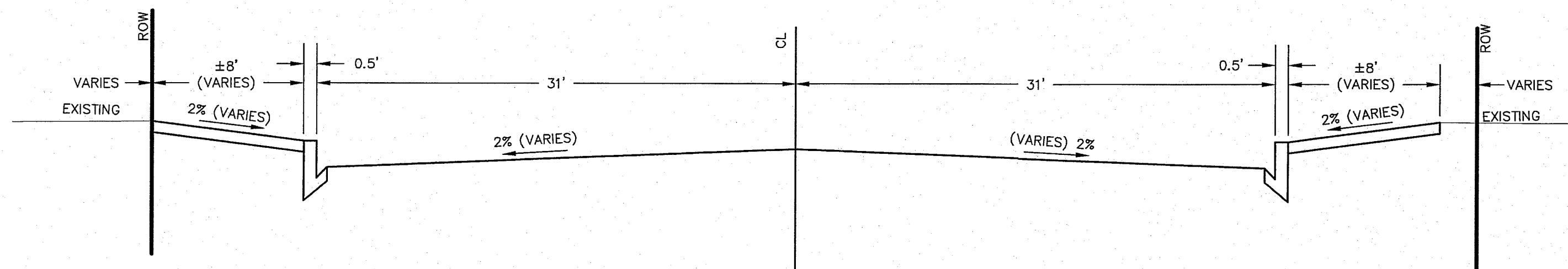
TYPICAL SECTION - STA: 57+00
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TYPICAL SECTION - STA: 42+00
NTS

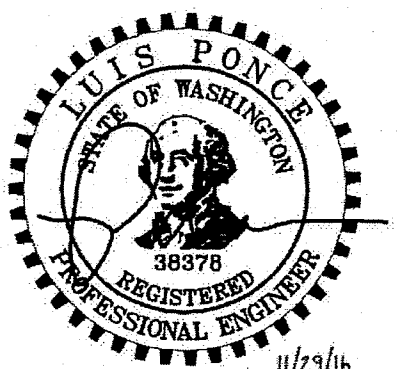


TYPICAL SECTION - STA: 46+00
NTS



TYPICAL SECTION - STA: 51+00
NTS

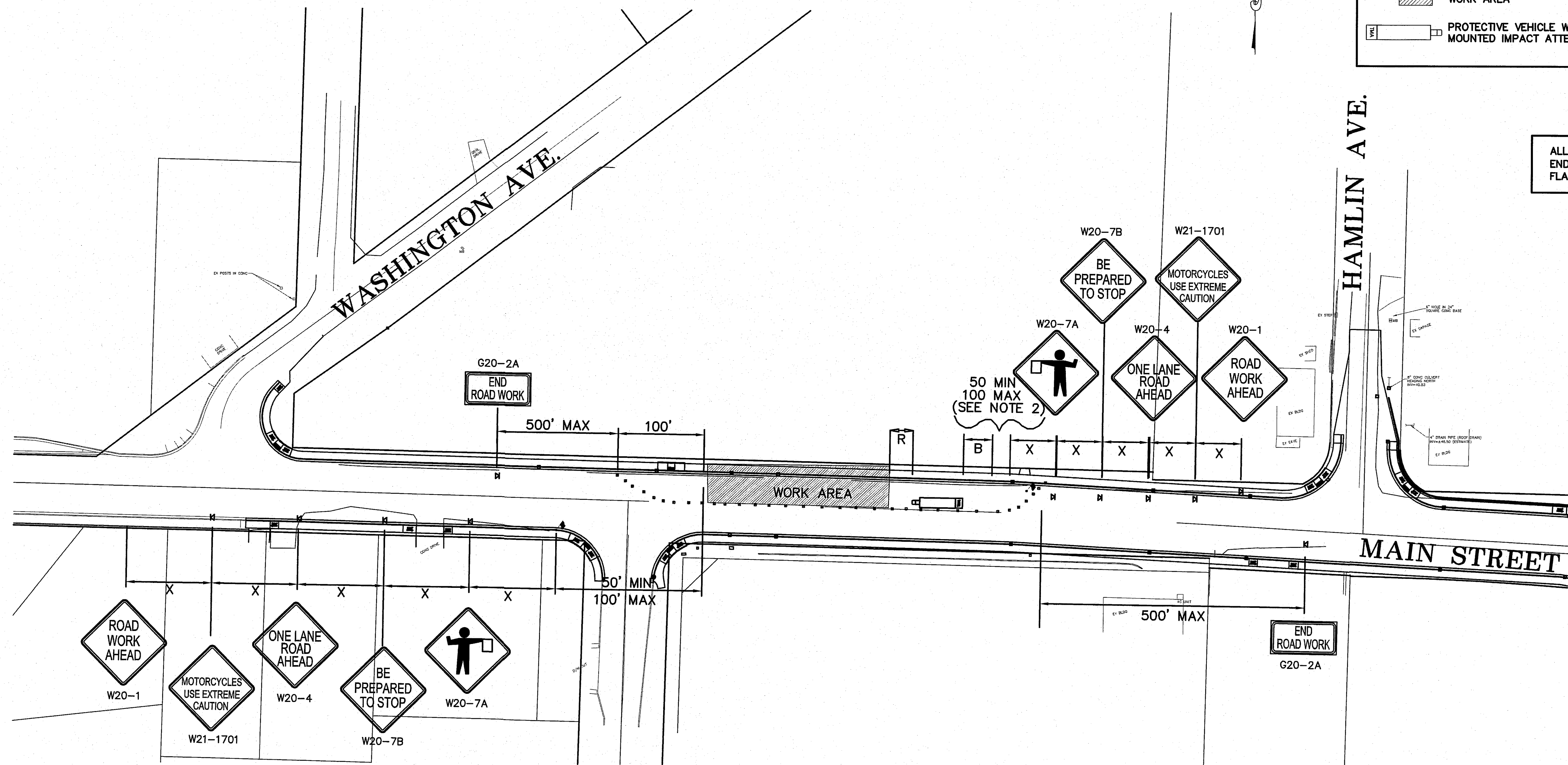
**SUBMITTED WITH
DESIGN PLAN**



DESIGNED BY LP DRAWN BY LMC CHECKED BY		REICHHARDT & EBE ENGINEERING, INC. CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407	NO. DATE REVISION BY	CITY OF FERNDAL PO BOX 936 FERNDAL, WA 98248	MAIN STREET TYPICAL SECTIONS	JOB# / DWG 08018 DET SCALE H:n/a V:n/a	DATE 7-21-10 SHEET 36
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157112/12 980.0190

00010.037 12/22/16



LEGEND

- CONSTRUCTION SIGN
- CHANNELIZATION DEVICES (DRUMS)
- FLAGGER LOCATION
- WORK AREA
- PROTECTIVE VEHICLE W/TRUCK MOUNTED IMPACT ATTENUATOR

- NOTES:**
- ALL UNITS IN FEET UNLESS OTHERWISE SPECIFIED.
 - USE A MINIMUM OF SIX (6) CHANNELIZATION DEVICES IN A TAPER. SEE MUTCD CHARTS ON THIS SHEET.
 - TRAFFIC CONTROL SIMILAR FOR WORKZONES LOCATED AT THE OTHER CORNERS OF THE INTERSECTION.
 - PROTECTIVE VEHICLE REQUIRED FOR STATIONARY WORK ZONES. PROTECTIVE VEHICLE IS OPTIONAL FOR MOBILE WORK ZONES.
 - "MOTORCYCLE USE EXTREME CAUTION" SIGN (W21-1701) SHALL BE INSTALLED THROUGHOUT THE WORKZONE AND AFTER EACH SIGNIFICANT INTERSECTION WHEN THE FOLLOWING ROADWAY CONDITIONS EXIST DURING CONSTRUCTION:
 - GROOVED PAVEMENT (WB-2001)
 - ABRUPT LANE EDGE (W21-801)
 - LOOSE GRAVEL (WB-7)
 - STEEL PLATES ON ROADWAY

ALL DIAMOND SHAPED SIGNS SHALL BE BLACK ON ORANGE AND 48"x48" IN SIZE.
END ROAD WORK SIGNS SHALL BE BLACK ON ORANGE AND 48"x24" IN SIZE.
FLAGGER STATION SHALL BE ILLUMINATED DURING THE HOURS OF DARKNESS.

SIGN SPACING = X (FEET)

FREEWAYS & EXPRESSWAYS	55/70 MPH	1500± (OR AS DIRECTED BY MUTCD)
RURAL ROADS	45/55 MPH	500±
URBAN ARTERIALS & RURAL ROADS	35/40 MPH	350±
RURAL ROADS, URBAN STREETS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200±

CHANNELIZING DEVICE SPACING (FEET)

MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

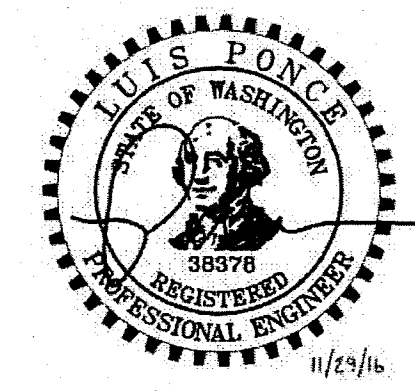
MINIMUM TAPER LENGTH (L) IN FEET

LANE WIDTH (FEET)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	265	450	500	550	-	-	-
11	115	165	225	285	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

BUFFER DATA

BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE										
TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS.)									STATIONARY OPERATION (FEET)
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC	MINIMUM WEIGHT 15,000 LBS. MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.									30 MIN.
ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT										
* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED.										

SUBMITTED WITH DESIGN PLAN



DESIGNED BY LP
DRAWN BY MLK
CHECKED BY

REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
P.O. Box 978 423 Front St., Ste 201
Lynden, Washington 98264
Ph (360) 354-3687
Fax (360) 354-0407

NO.	DATE	REVISION	BY

CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
STREET IMPROVEMENTS
TYPICAL MAINLINE SINGLE LANE CLOSURE

JOB# / DWG	08018 08018_SP1.AB	DATE	7-21-10
SCALE	H:N/A V:N/A	SHEET	37

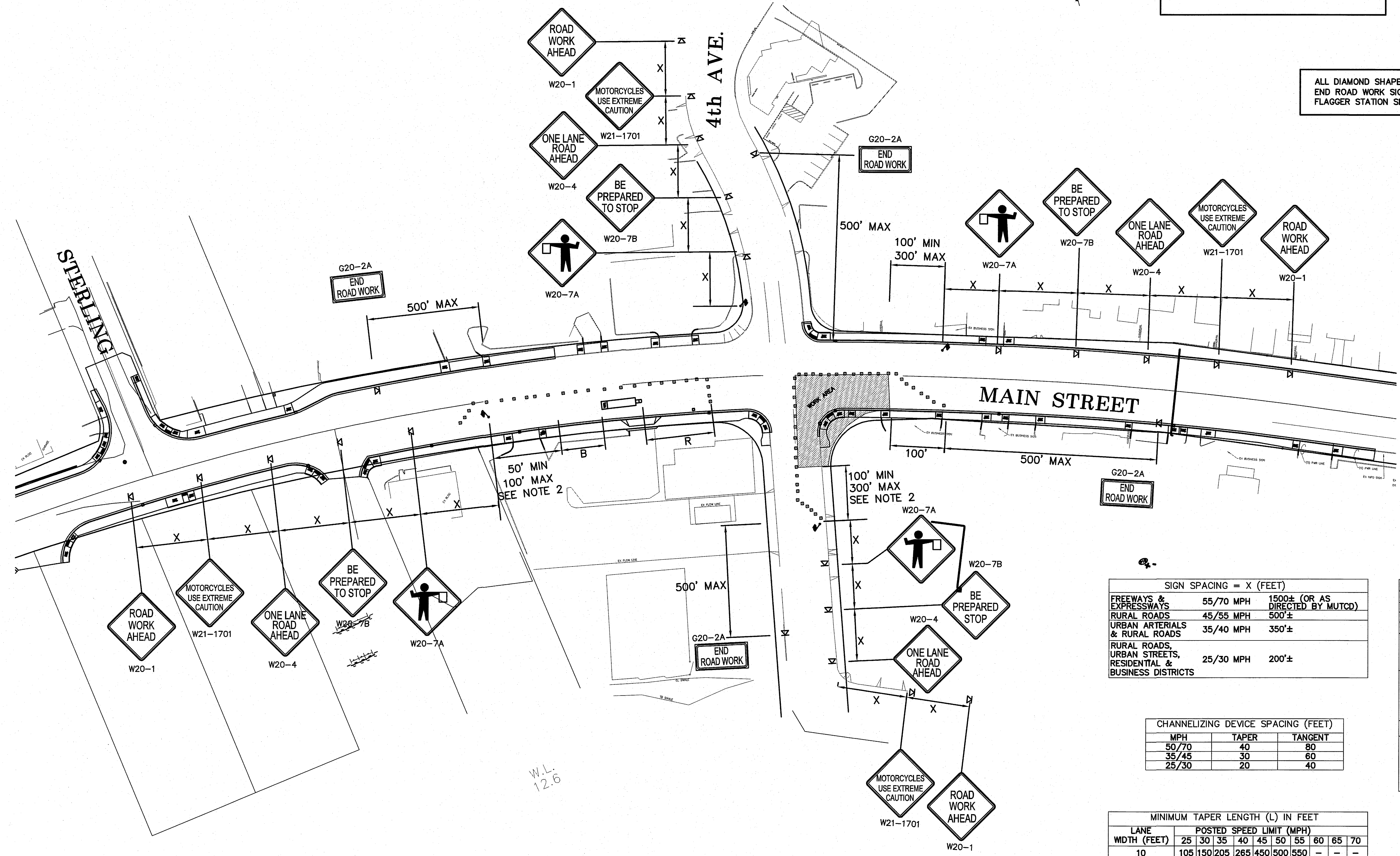
08018_SP1.AB.dwg 11/29/2016 11:50:05 AM

LEGEND

- CONSTRUCTION SIGN
- CHANNELIZATION DEVICES (DRUMS)
- FLAGGER LOCATION
- WORK AREA
- PROTECTIVE VEHICLE W/TRUCK MOUNTED IMPACT ATTENUATOR

- NOTES:**
- ALL UNITS IN FEET UNLESS OTHERWISE SPECIFIED.
 - USE A MINIMUM OF SIX (6) CHANNELIZATION DEVICES IN A TAPER, SEE MUTCD CHARTS ON THIS SHEET.
 - TRAFFIC CONTROL SIMILAR FOR WORKZONES LOCATED AT THE OTHER CORNERS OF THE INTERSECTION.
 - PROTECTIVE VEHICLE REQUIRED FOR STATIONARY WORK ZONES. PROTECTIVE VEHICLE IS OPTIONAL FOR MOBILE WORK ZONES.
 - "MOTORCYCLE USE EXTREME CAUTION" SIGN (W21-1701) SHALL BE INSTALLED THROUGHOUT THE WORKZONE AND AFTER EACH SIGNIFICANT INTERSECTION WHEN THE FOLLOWING ROADWAY CONDITIONS EXIST DURING CONSTRUCTION:
 - GROOVED PAVEMENT (WB-2001)
 - ABRUPT LANE EDGE (W21-801)
 - LOOSE GRAVEL (WB-7)
 - STEEL PLATES ON ROADWAY

ALL DIAMOND SHAPED SIGNS SHALL BE BLACK ON ORANGE AND 48"x48" IN SIZE. END ROAD WORK SIGNS SHALL BE BLACK ON ORANGE AND 48"x24" IN SIZE. FLAGGER STATION SHALL BE ILLUMINATED DURING THE HOURS OF DARKNESS.



SIGN SPACING = X (FEET)

FREeways & EXPRESSWAYS	55/70 MPH	1500± (OR AS DIRECTED BY MUTCD)
RURAL ROADS	45/55 MPH	500'±
URBAN ARTERIALS & RURAL ROADS	35/40 MPH	350'±
RURAL ROADS, URBAN STREETS, RESIDENTIAL & BUSINESS DISTRICTS	25/30 MPH	200'±

CHANNELIZING DEVICE SPACING (FEET)

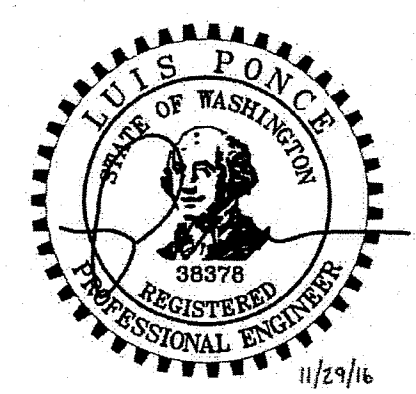
MPH	TAPER	TANGENT
50/70	40	80
35/45	30	60
25/30	20	40

MINIMUM TAPER LENGTH (L) IN FEET

LANE WIDTH (FEET)	25	30	35	40	45	50	55	60	65	70
10	105	150	205	265	450	500	550	-	-	-
11	115	165	225	295	495	550	605	660	-	-
12	125	180	245	320	540	600	660	720	780	840

BUFFER DATA										
BUFFER SPACE = B										
SPEED (MPH)	25	30	35	40	45	50	55	60	65	70
LENGTH (feet)	155	200	250	305	360	425	495	570	645	730
PROTECTIVE VEHICLE WITH TMA ROLL AHEAD DISTANCE										
TYPICAL PROTECTIVE VEHICLE TYPE WITH TMA	TYPICAL PROTECTIVE VEHICLE (WITH TMA) LOADED WEIGHT (LBS.)							STATIONARY OPERATION (FEET)		
4 YARD DUMP TRUCK, SERVICE TRUCK, FLAT BED, ETC	MINIMUM WEIGHT 15,000 LBS. MAXIMUM WEIGHT SHALL BE IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.							30 MIN.		
ROLL AHEAD STOPPING DISTANCE ASSUMES DRY PAVEMENT										
* A PROTECTIVE VEHICLE IS RECOMMENDED REGARDLESS IF TMA IS AVAILABLE. IF NO TMA IS USED, THE PROTECTIVE VEHICLE SHALL BE STRATEGICALLY LOCATED IN THE FIELD TO SHIELD WORKERS AND NO ROLL AHEAD DISTANCE IS SPECIFIED.										

SUBMITTED WITH DESIGN PLAN



DESIGNED BY LP
DRAWN BY MLK
CHECKED BY

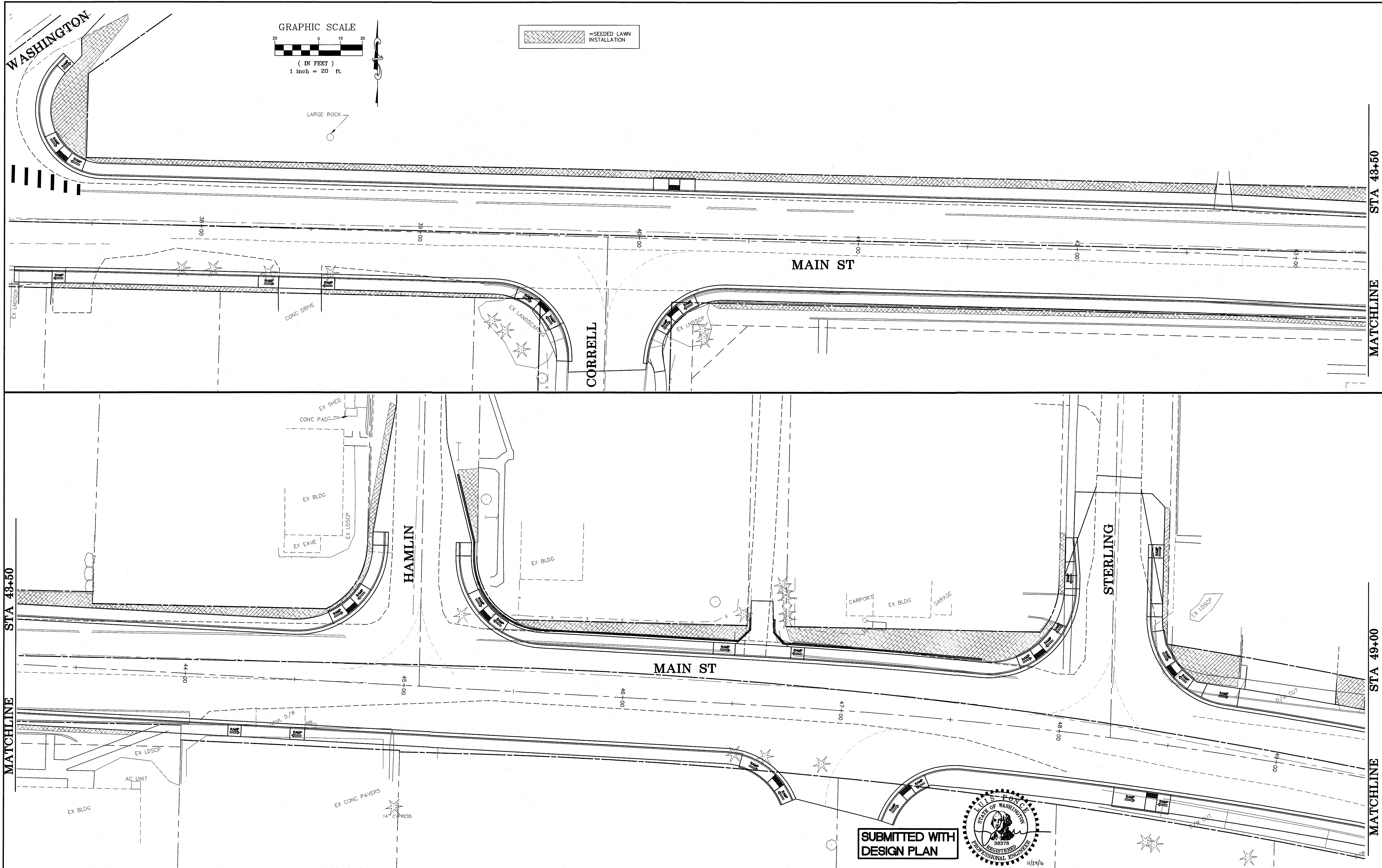
R&E REICHHARDT & EBE
ENGINEERING, INC.
CONSULTING ENGINEERS
PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687
Lynden, Washington 98264 Fax (360) 354-0407

NO.	DATE	REVISION	BY

CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
STREET IMPROVEMENTS
LANE CLOSURE AT INTERSECTION

JOB# / DWG	DATE
08018 08018_SP1.AB	7-21-10
SCALE	SHEET
H:N/A V:N/A	38



STA 43+50

MATCHLINE

STA 49+00

MATCHLINE

00610.039 12/03/16.54

DESIGNED BY
LP
DRAWN BY
BENM
CHECKED BY

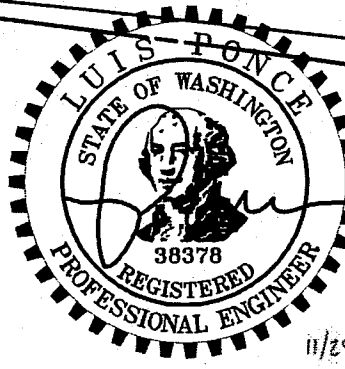


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CITY OF FERNDAL
PO BOX 936
FERNDAL, WA 98248

SUBMITTED WITH
DESIGN PLAN



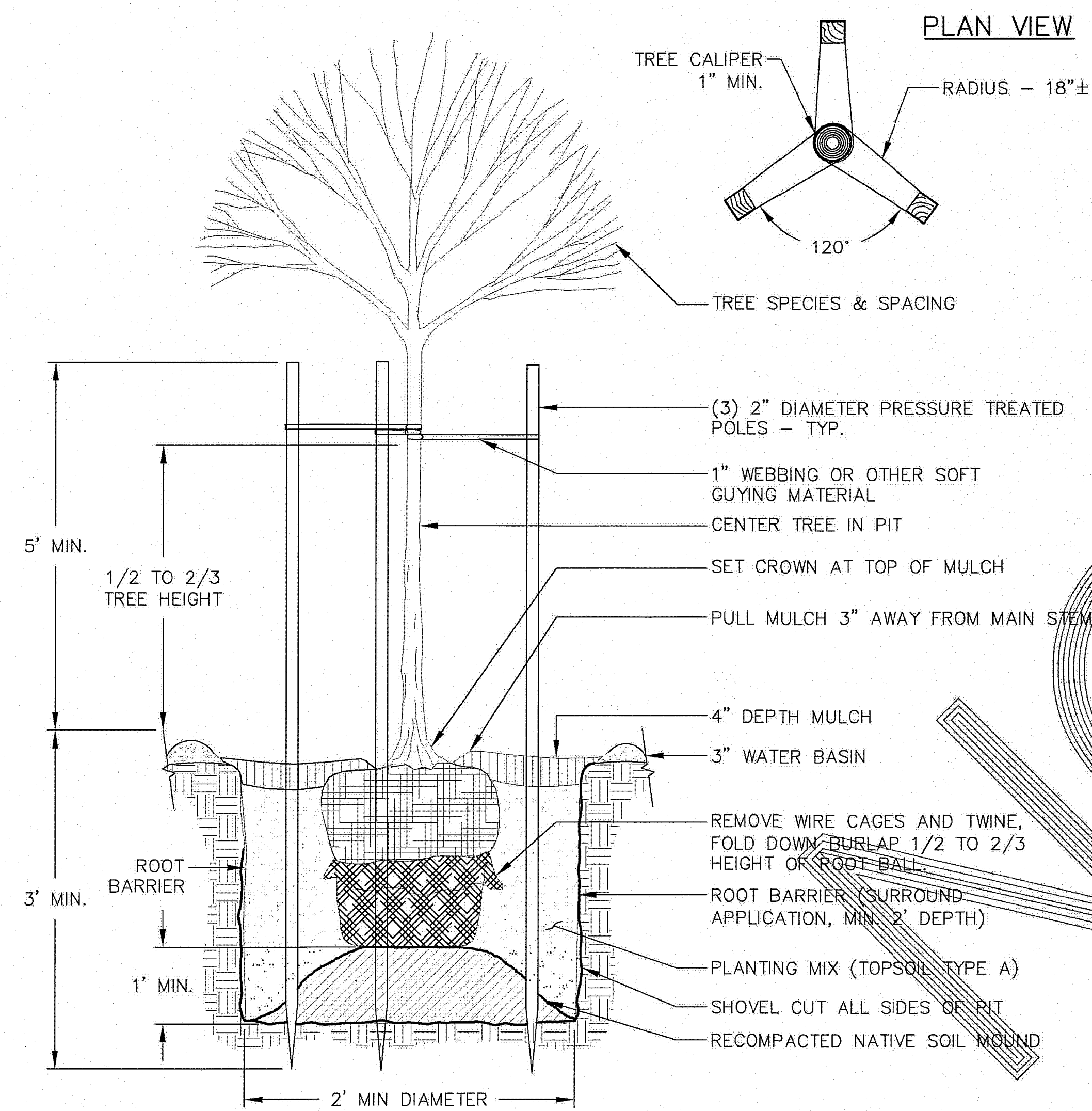
MAIN STREET
LANDSCAPE PLAN
STA 36+50 TO 49+00

JOB# / DWG
08018 08018_LDSCP
SCALE
H: 1" = 20' V: NA

DATE
7-21-10
SHEET
39

NOTES:

1. HANDLE TREES BY ROOTBALL.
2. STAKES SHALL NOT PENETRATE ROOT BALL.
3. AVOID DAMAGE TO ROOTBALL.
4. FERTILIZE AS SPECIFIED.
5. WIRE GUYING IS NOT ALLOWED.
6. ROOT BARRIER SHALL BE INSTALLED ON ALL FOUR SIDES OF THE TREE, SURROUNDING THE ROOT BALL.



TREE PLANTING DETAIL

NTS

PLANT LIST

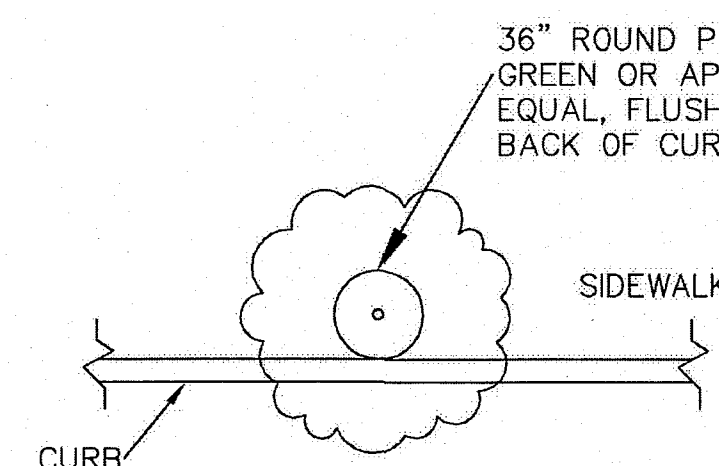
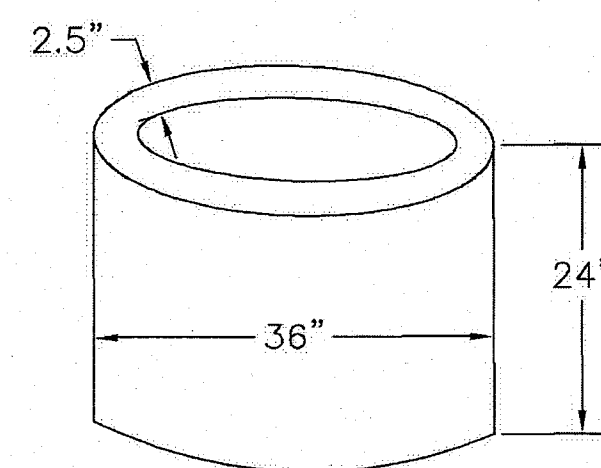
QTY	SCIENTIFIC NAME	COMMON NAME	SIZE
12	LIQUIDAMBER STYRACIFLUA	SWEET GUM	15 GAL, 1" TRUNK, 8' TALL
12	PYRUS CALLERYANA	CALLERY 'BRADFORD' FLOWERING PEAR	15 GAL, 1" TRUNK, 8' TALL

PLANTER DETAIL

NTS

STATION 39+00-60+00

INSTALL 7 PLANTERS PER PLAN
DARK GREEN IN COLOR

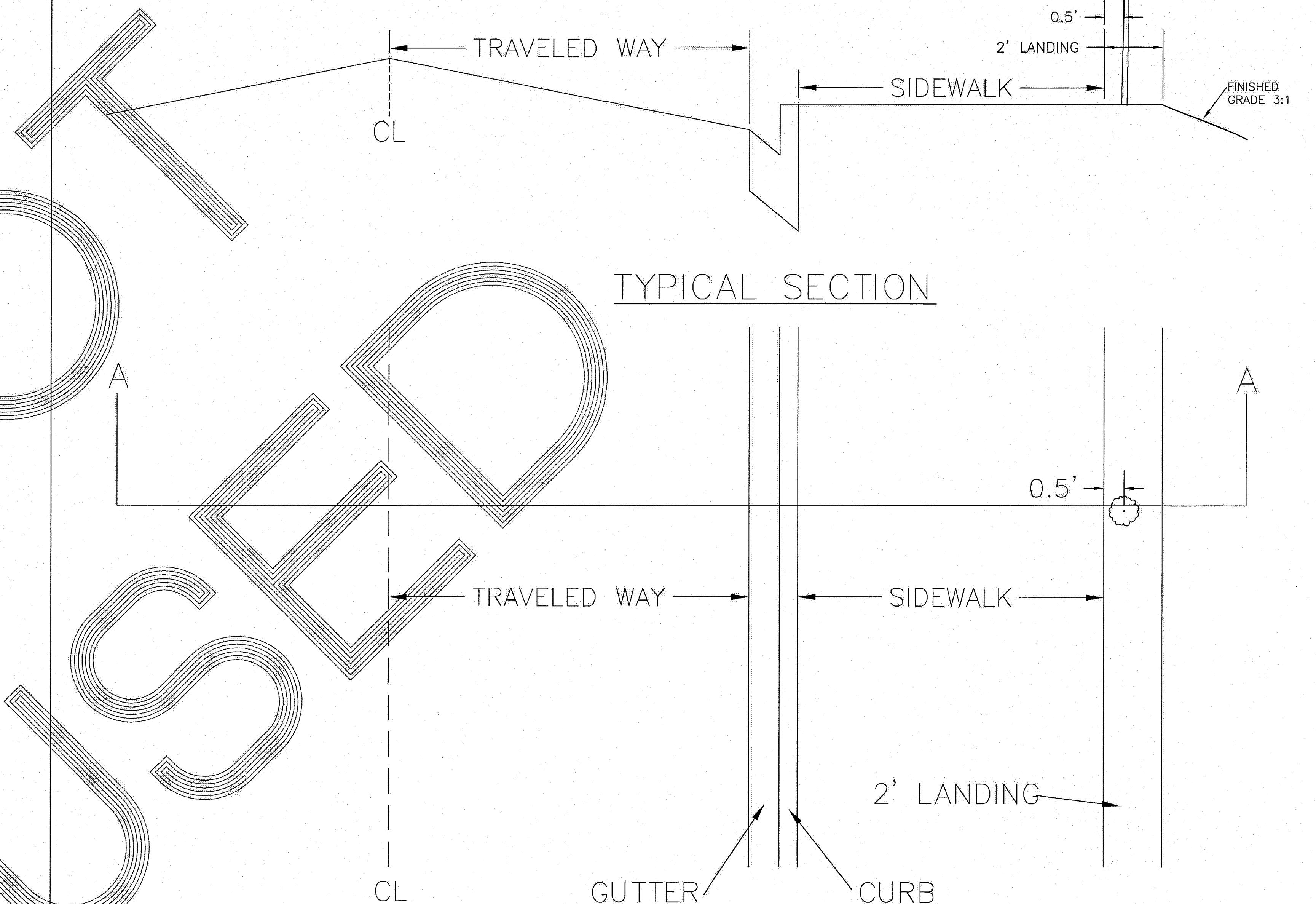


STREET

SECTION A-A (TYP)

NTS

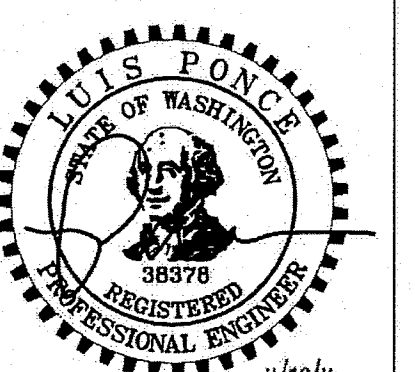
STATION 37+00-43+00 DETAIL



TYPICAL SECTION

PLAN VIEW

**SUBMITTED WITH
DESIGN PLAN**



DESIGNED BY
LP
DRAWN BY
BENM
CHECKED BY



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CONSULTING ENGINEERS

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Lynden, Washington 98264 Fax (360) 354-0407

NO.

DATE

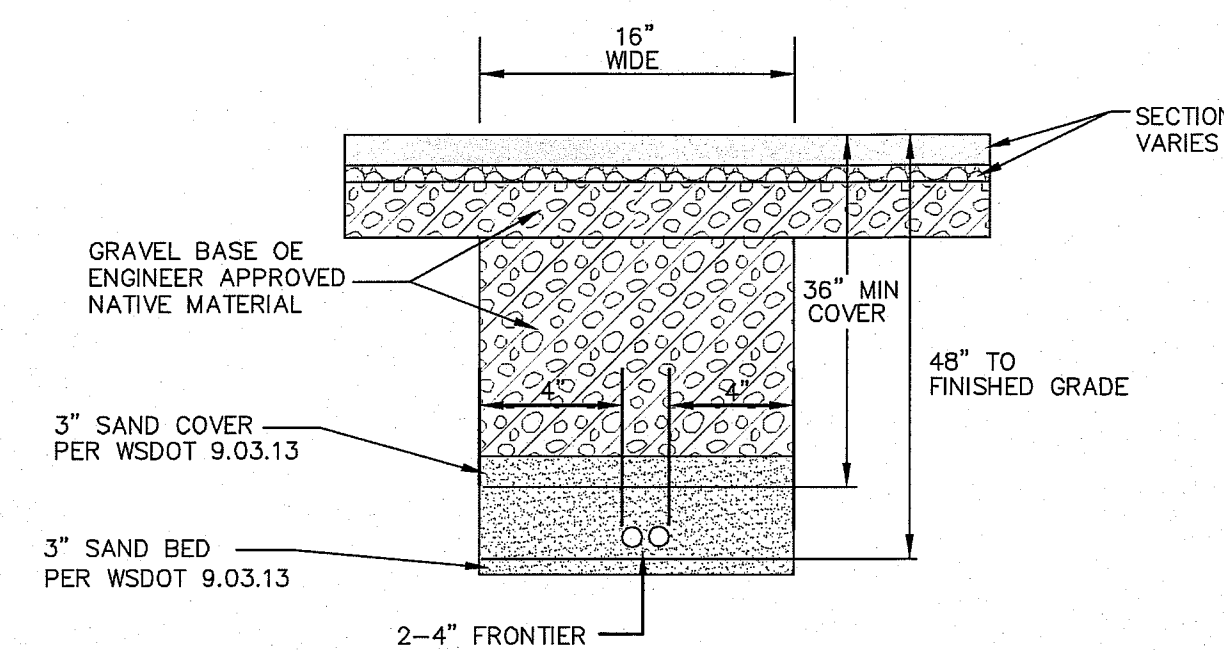
REVISION

BY

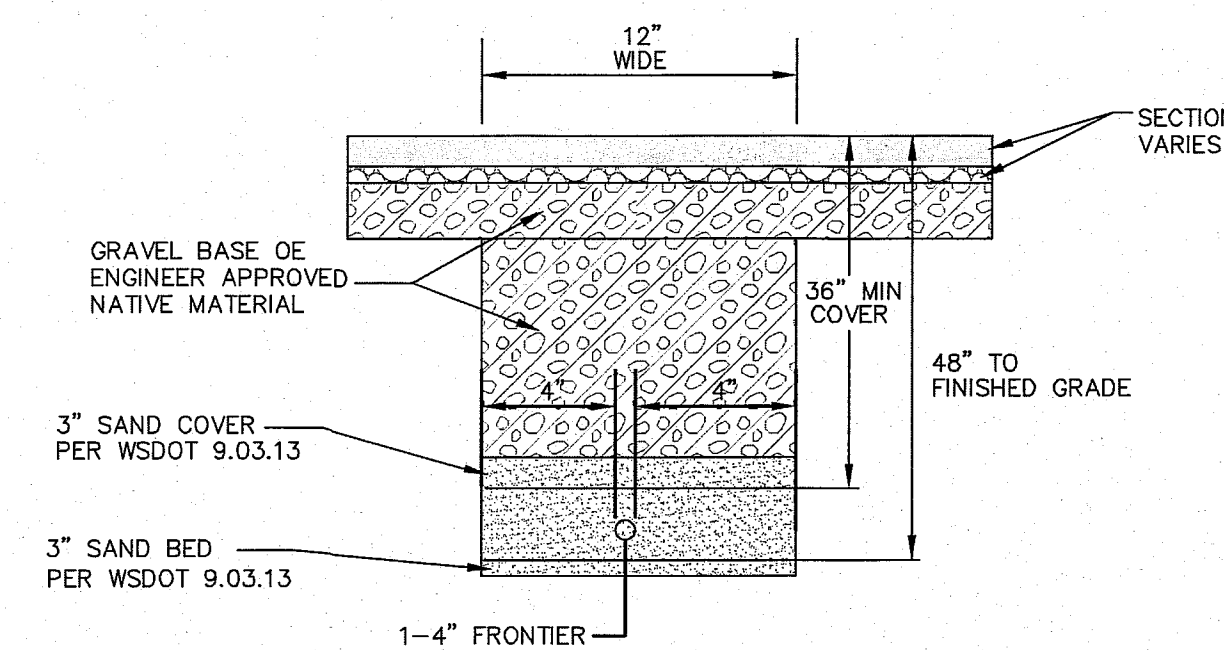
CITY OF FERNDAL
PO BOX 936
FERNDAL, WA 98248

**MAIN STREET
LANDSCAPE PLAN
DETAILS**

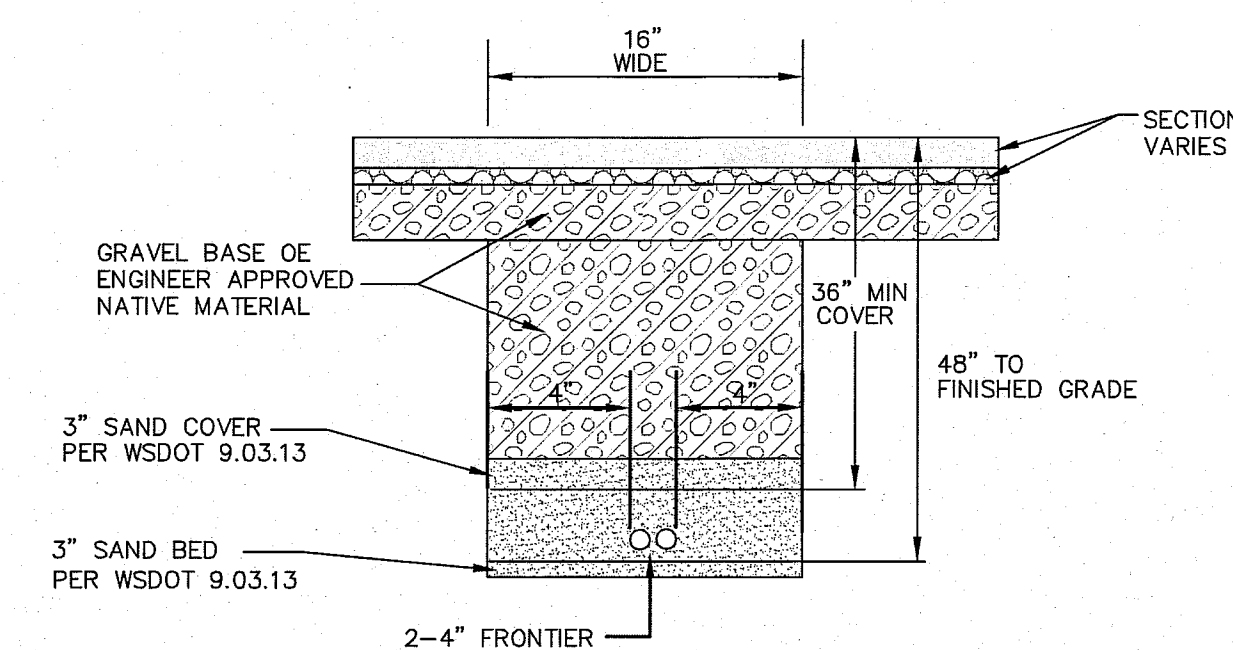
JOB# / DWG
08018 08018_LDSCP
SCALE
H:NA V:NA
DATE
7-21-10
SHEET
41



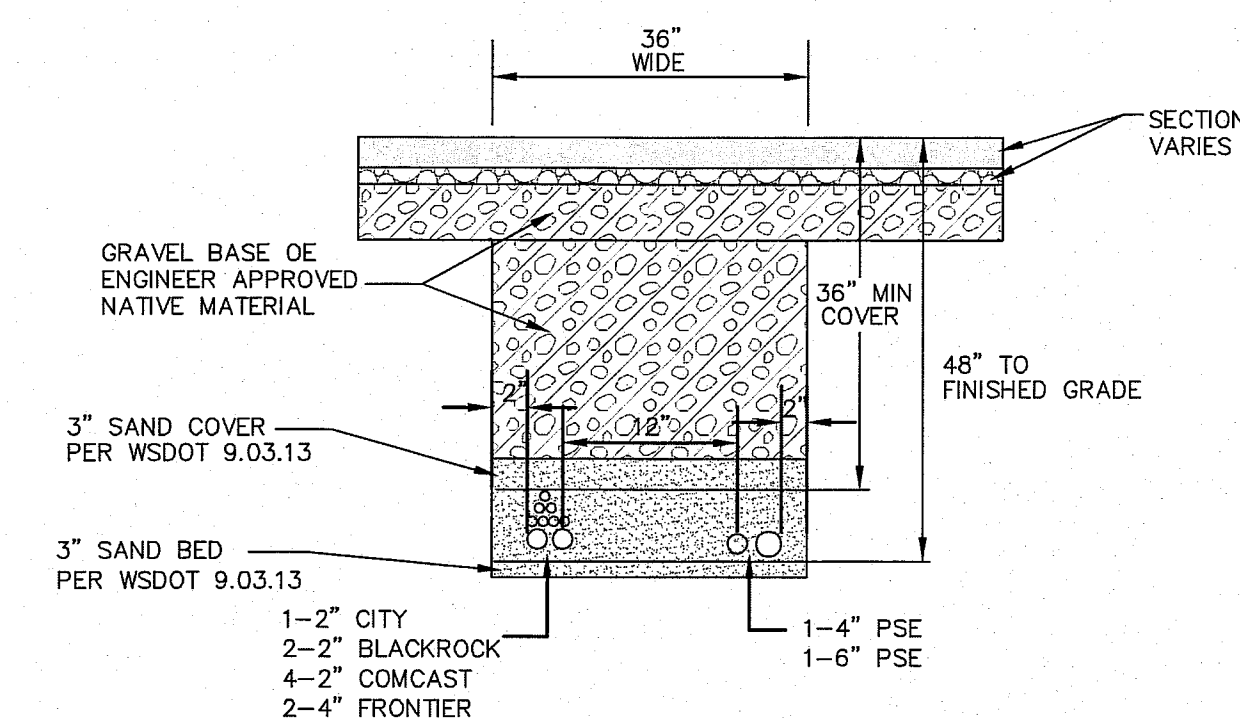
COMMON UTILITY TRENCH
APPROX STA 36+00 TO 37+40, LT



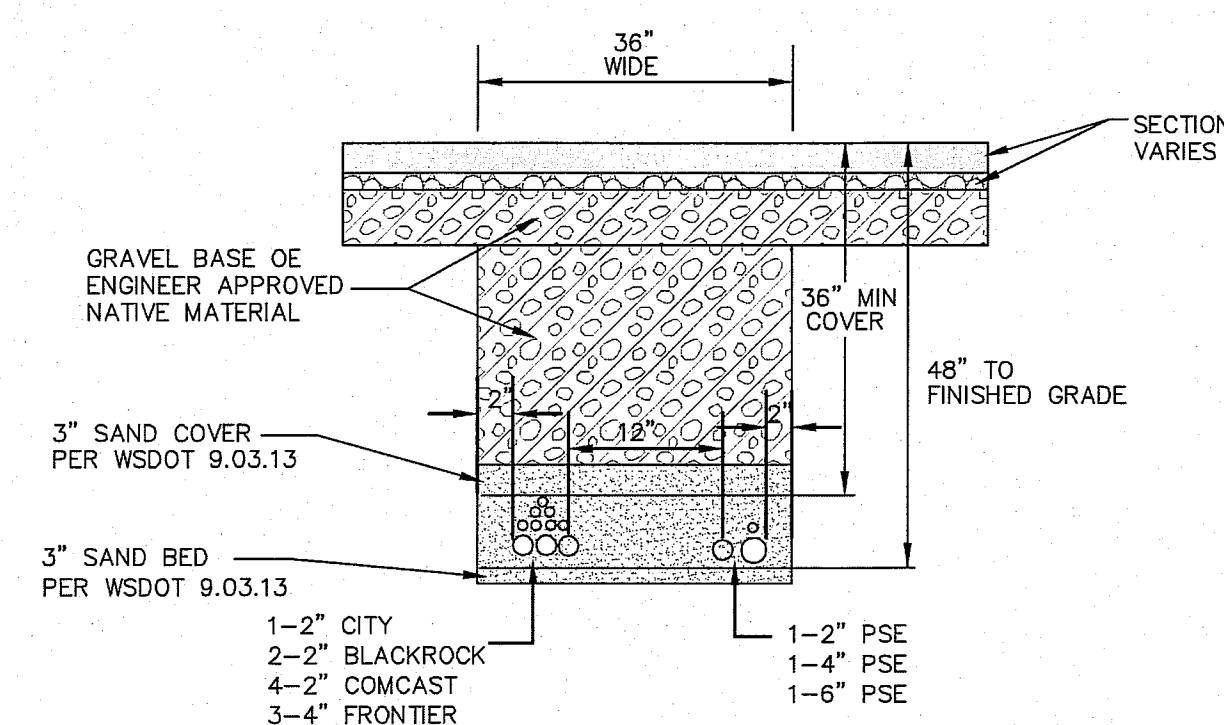
COMMON UTILITY TRENCH
APPROX STA 36+60 TO 37+40, RT



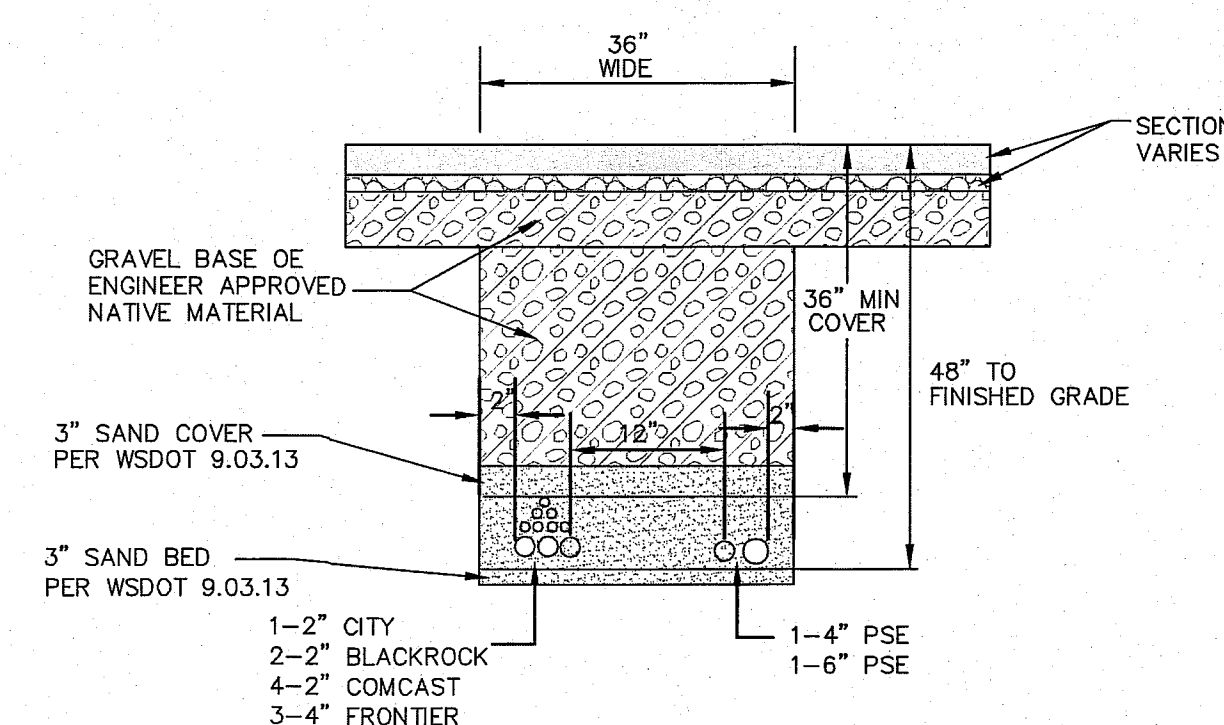
COMMON UTILITY TRENCH
APPROX STA 37+40 TO 38+12, RT



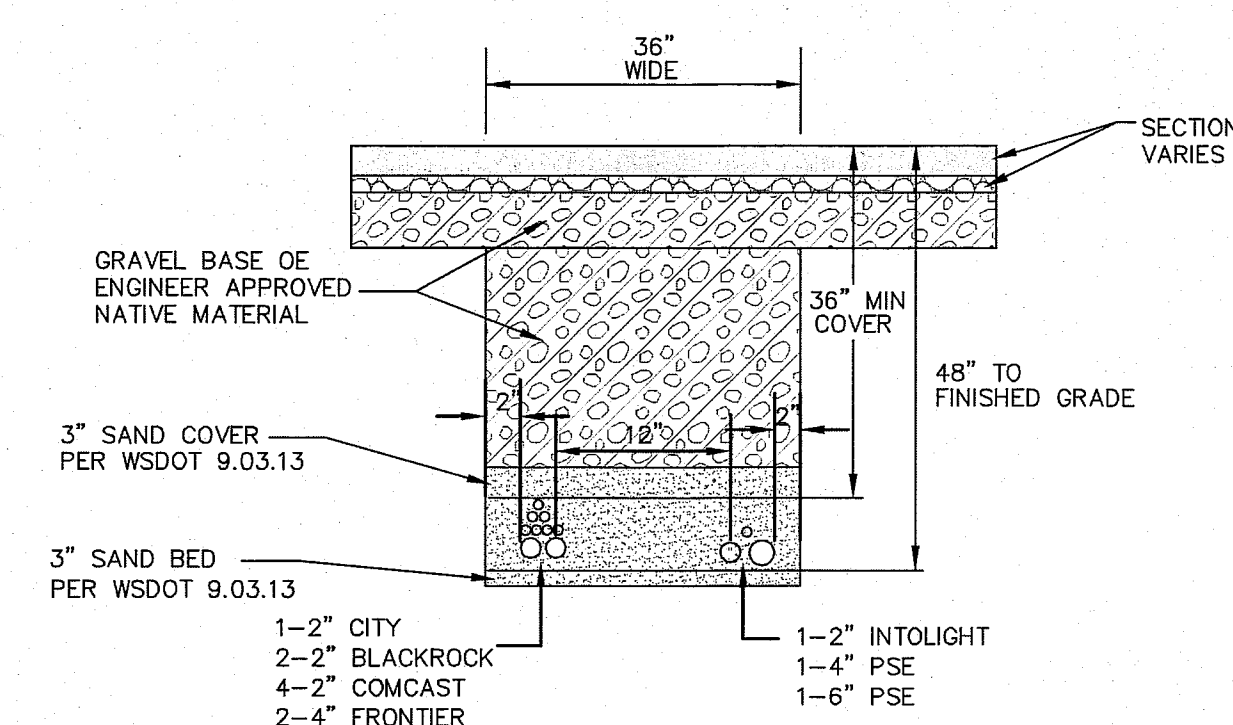
COMMON UTILITY TRENCH
APPROX STA 44+00 TO 45+00, RT
APPROX STA 46+37 TO 47+57, RT



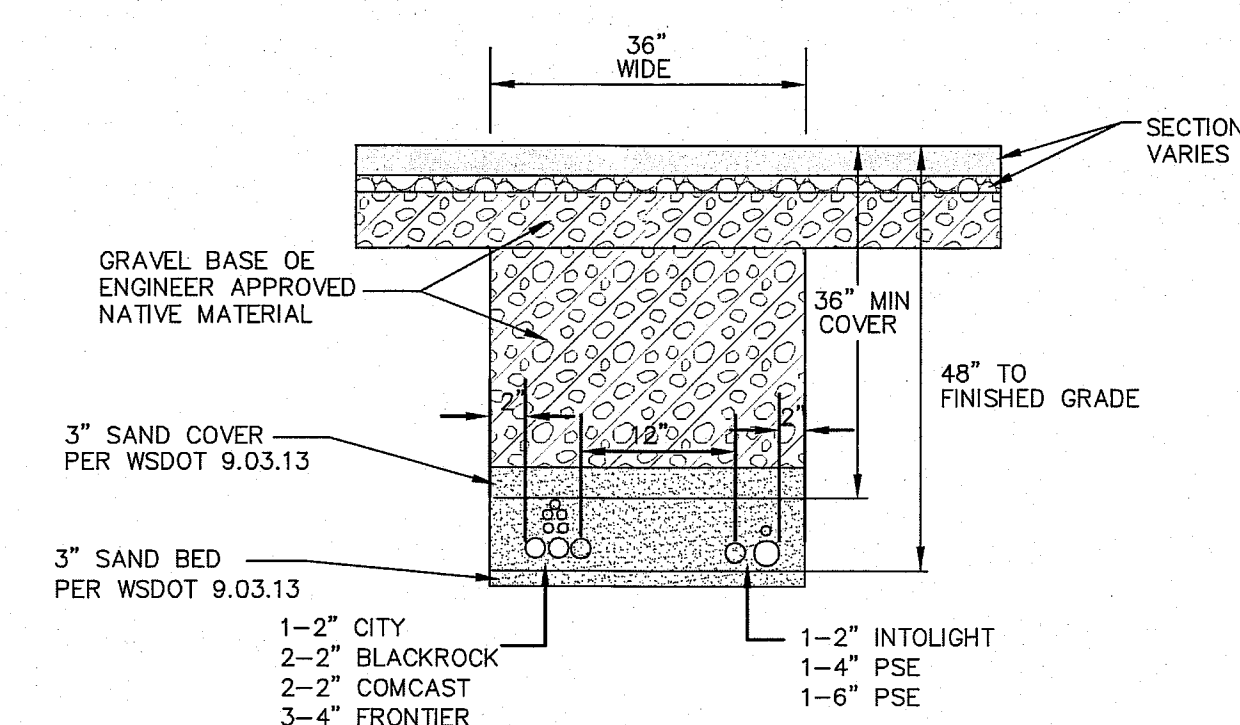
COMMON UTILITY TRENCH
APPROX STA 38+12 TO 38+97. RT



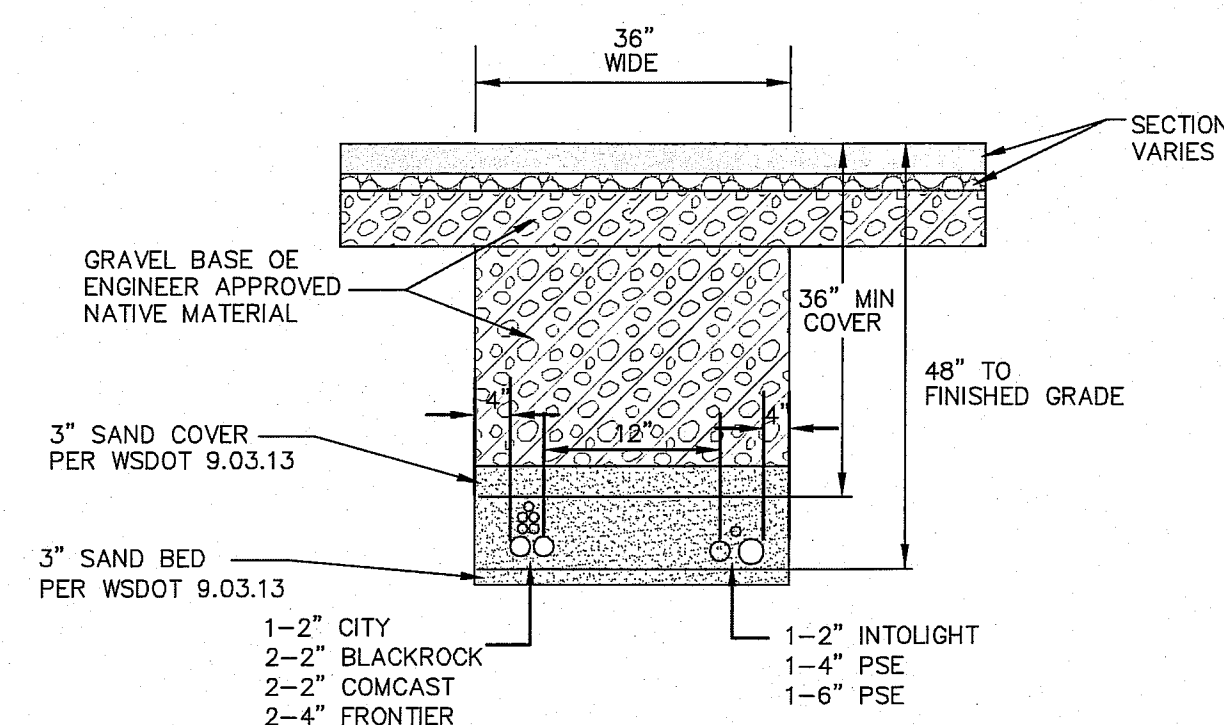
COMMON UTILITY TRENCH
APPROX STA 38+97 TO 40+33. RT



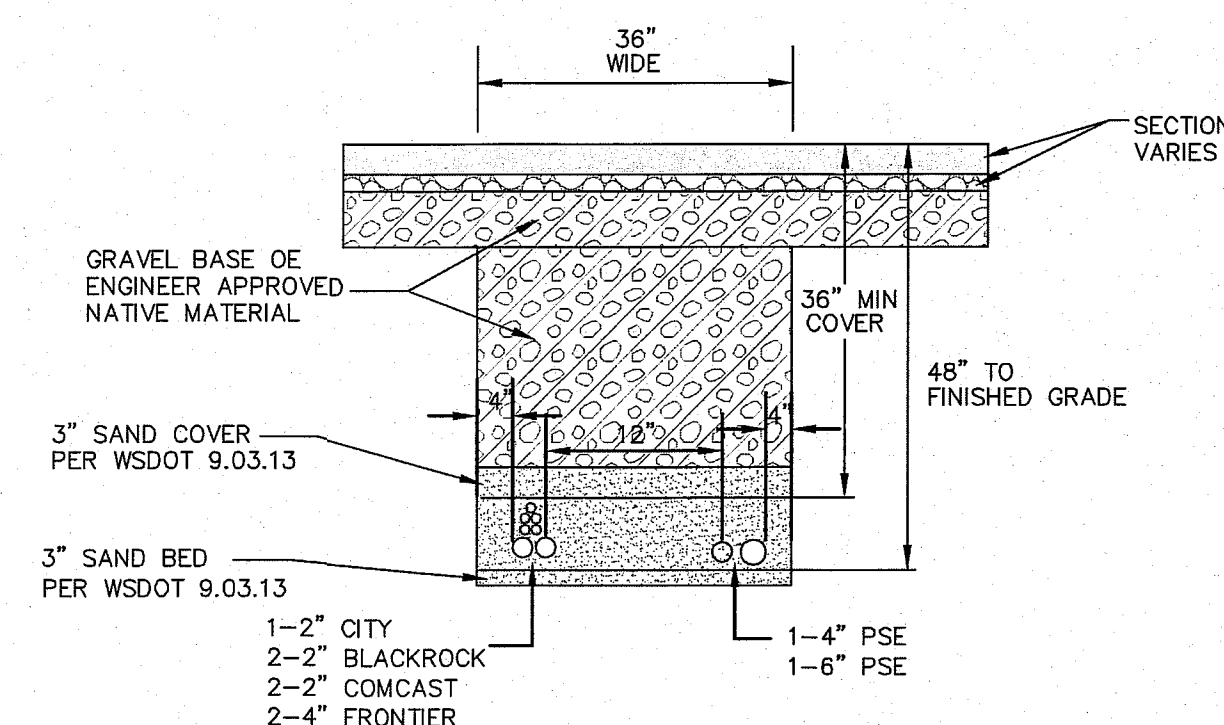
COMMON UTILITY TRENCH
APPROX STA 40+33 TO 44+00, RT
APPROX STA 45+00 TO 46+37, RT
APPROX STA 47+57 TO 48+00, RT



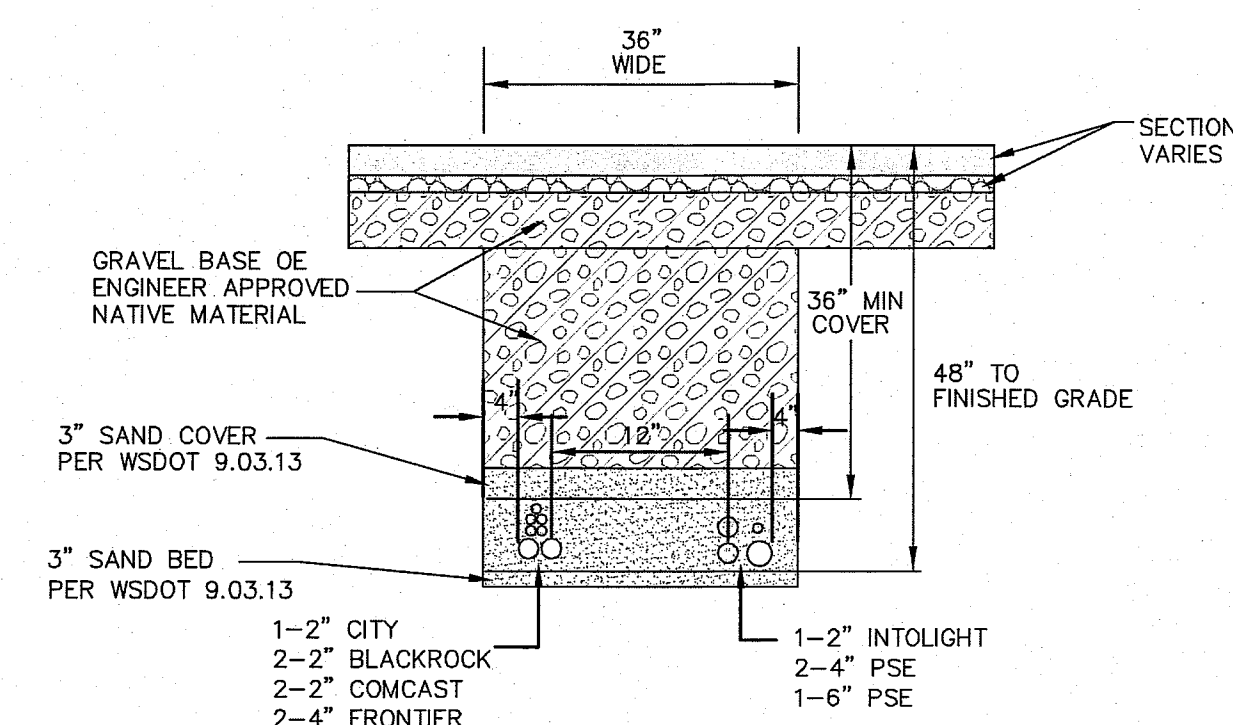
COMMON UTILITY TRENCH
APPROX STA 48+00 TO 48+40. RT



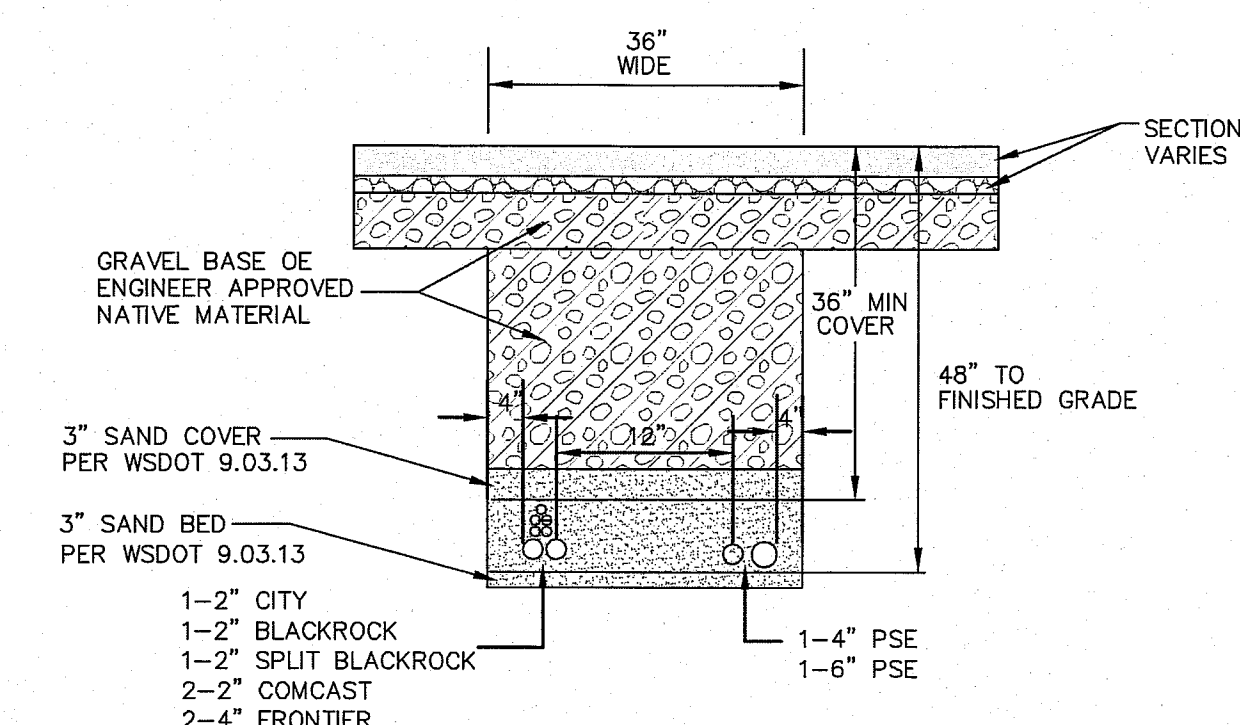
COMMON UTILITY TRENCH
APPROX STA 48+40 TO 50+45, RT
APPROX STA 52+00 TO 52+44, RT



COMMON UTILITY TRENCH
APPROX STA 50+45 TO 52+00, RT

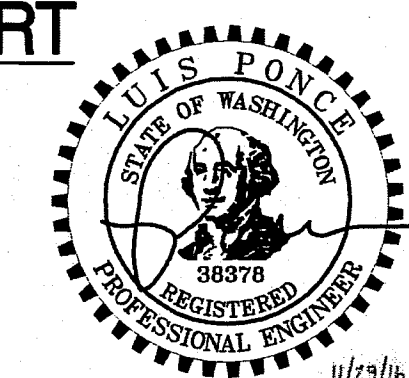


COMMON UTILITY TRENCH
APPROX STA 52+44 TO 53+50, RT

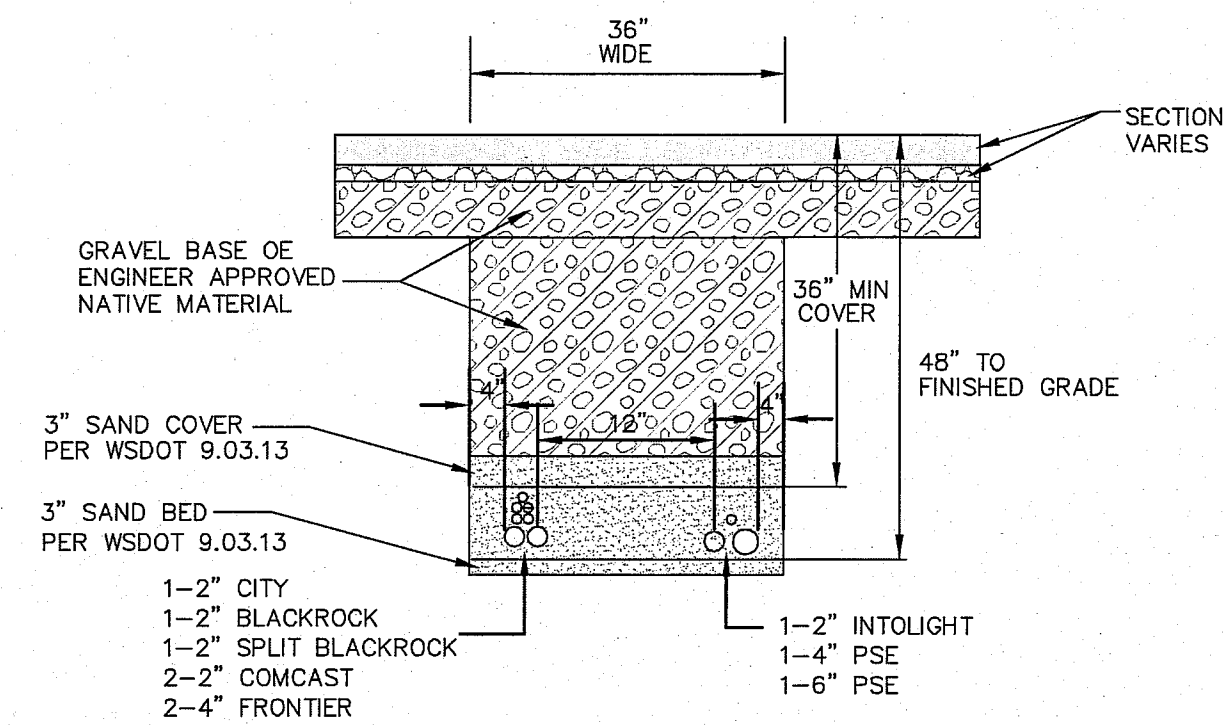


COMMON UTILITY TRENCH
APPROX STA 53+50 TO 55+28, RT
APPROX STA 55+69 TO 56+85, RT

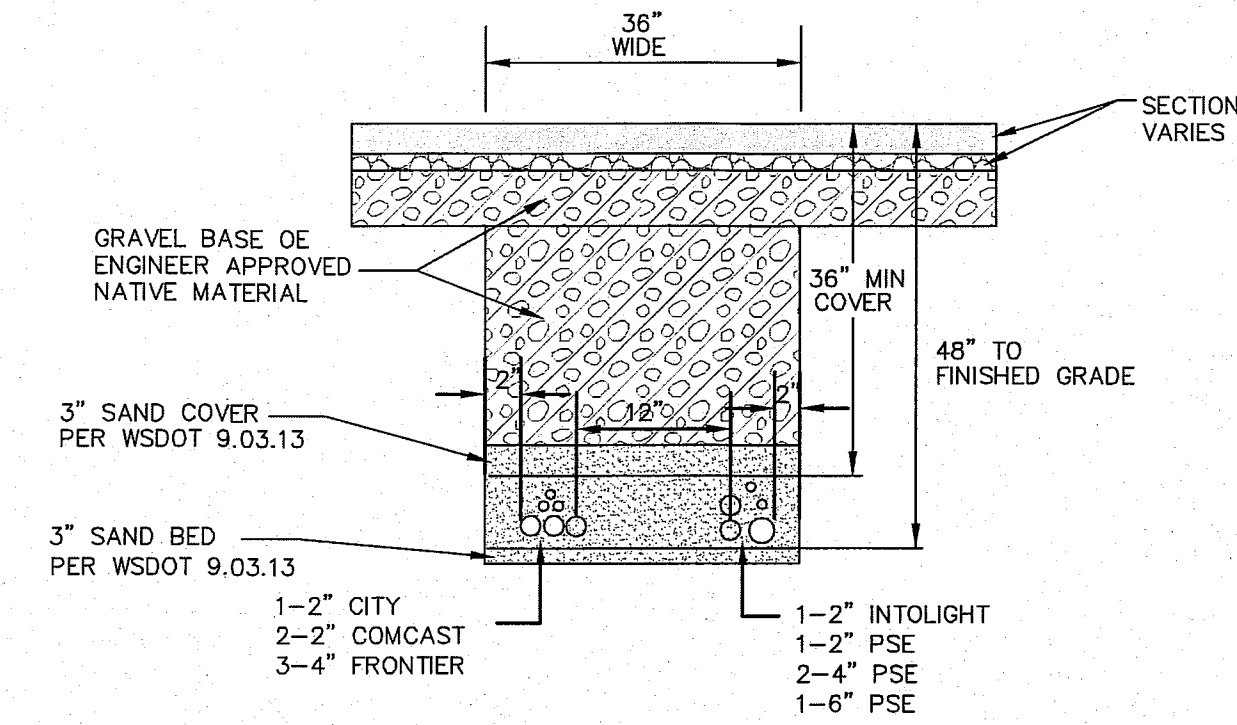
**SUBMITTED WITH
DESIGN PLAN**



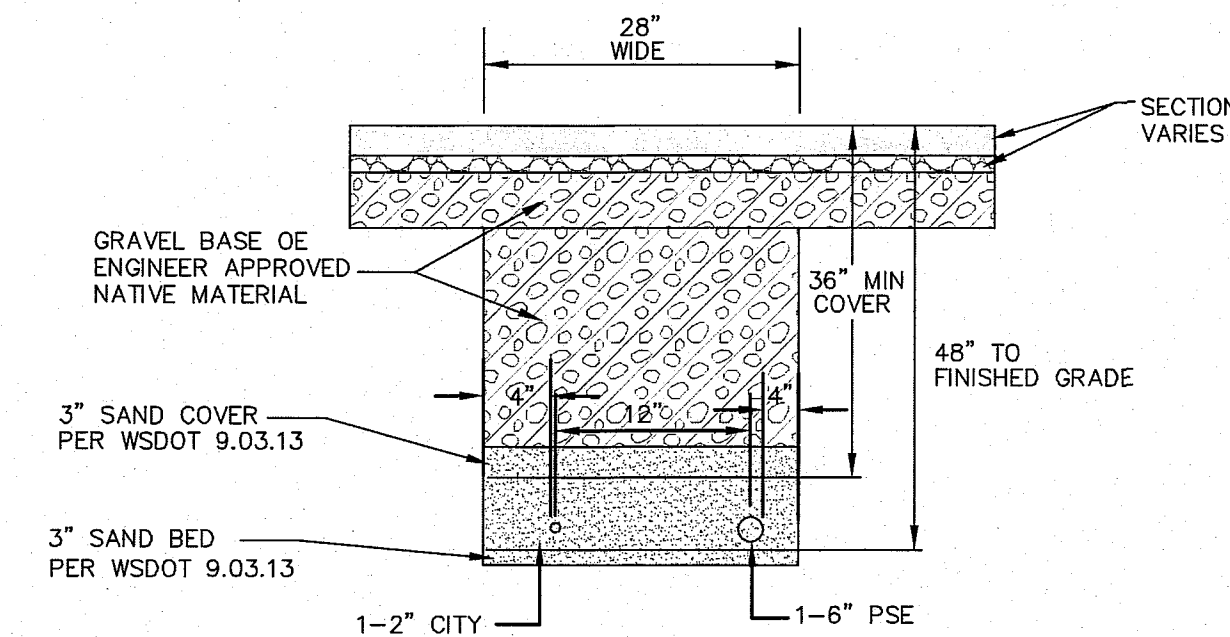
	DESIGNED BY LP	 REICHHARDT & EBE <i>ENGINEERING, INC.</i> CONSULTING ENGINEERS PO Box 978 423 Front St., Ste 201 Ph (360) 354-3687 Lynden, Washington 98264 Fax (360) 354-0407				CITY OF FERNDAL PO BOX 936 FERNDAL, WA 98248	MAIN STREET ADDENDUM 1	JOB # / DWG 08018 DET	DATE 8-5-10	
	DRAWN BY LMC								SCALE H:n/a V:n/a	SHEET
	CHECKED BY		NO.	DATE	REVISION			BY	42	



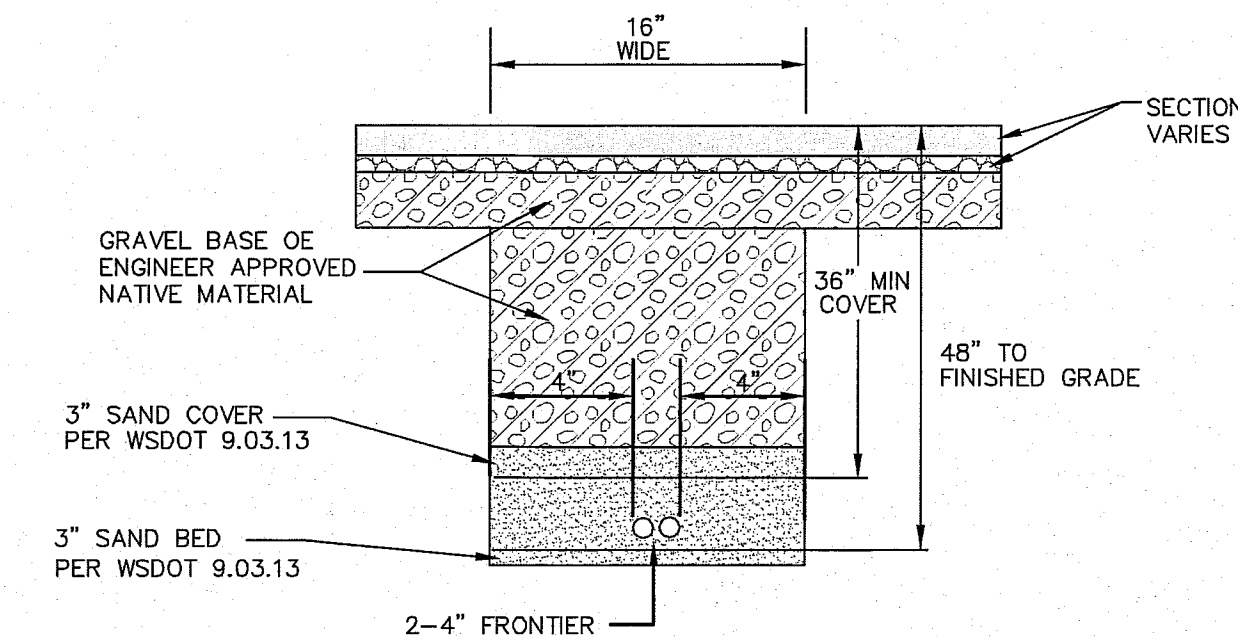
COMMON UTILITY TRENCH
APPROX STA 55+28 TO 55+69, RT
APPROX STA 56+85 TO 57+50, RT



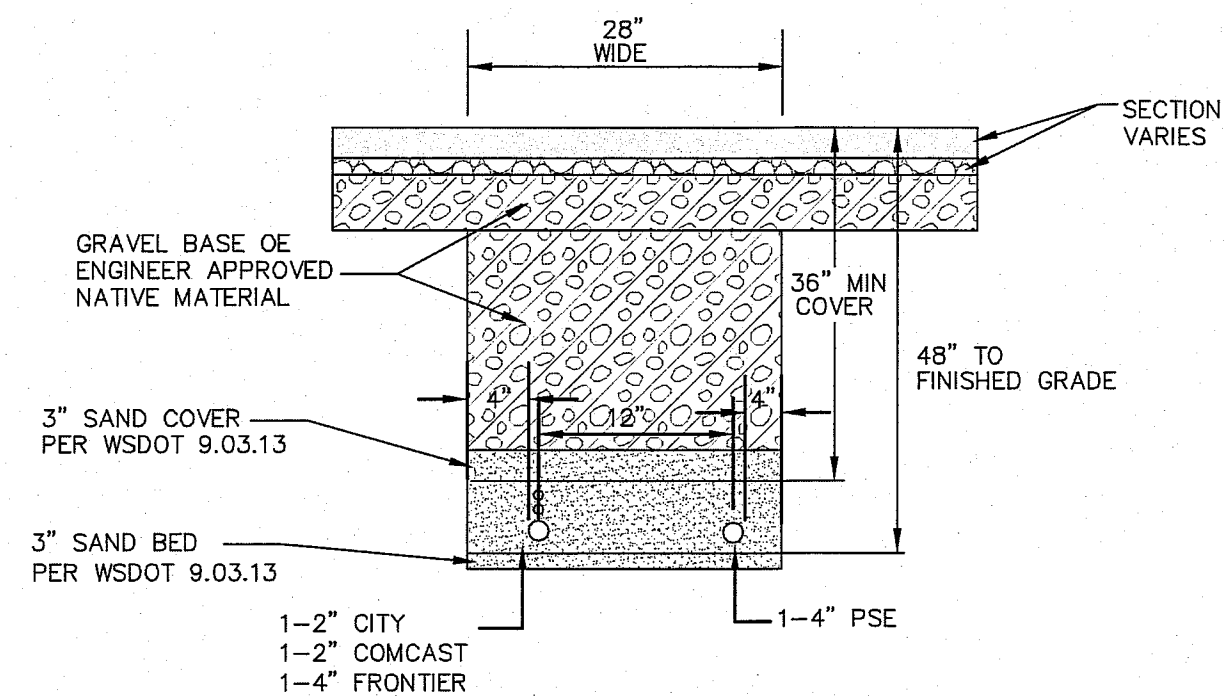
COMMON UTILITY TRENCH
APPROX STA 57+50 TO 58+50, RT



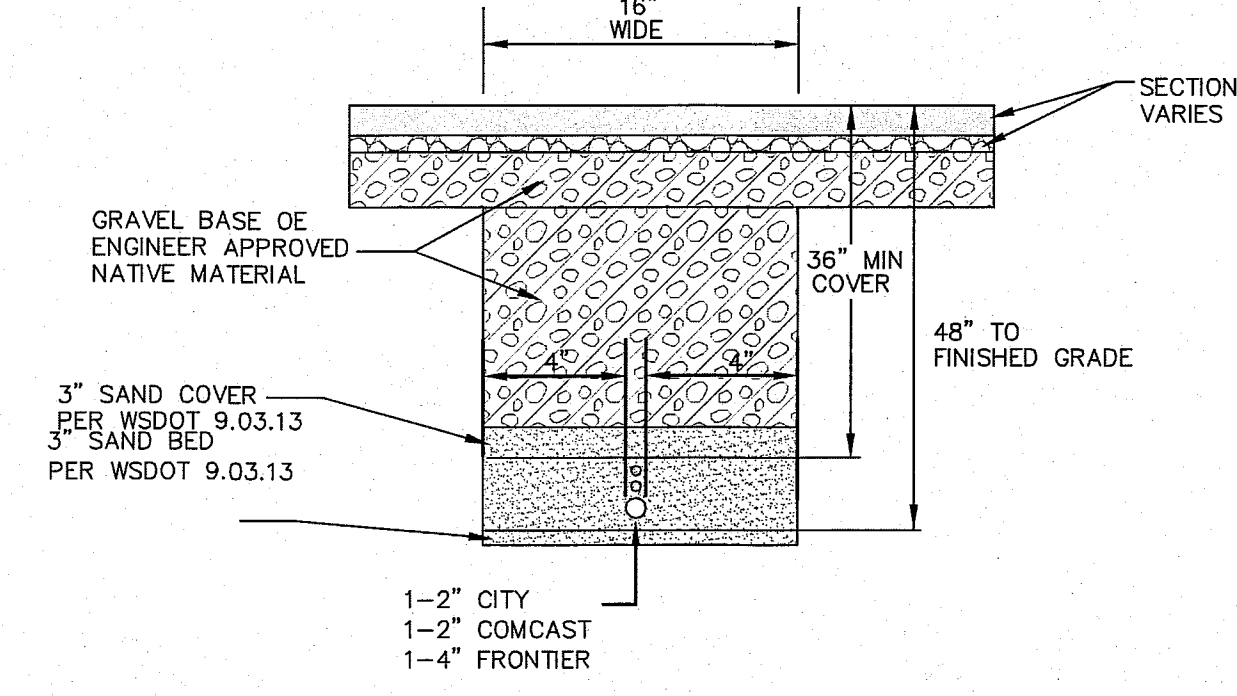
COMMON UTILITY TRENCH
APPROX STA 58+50 TO 59+00, RT



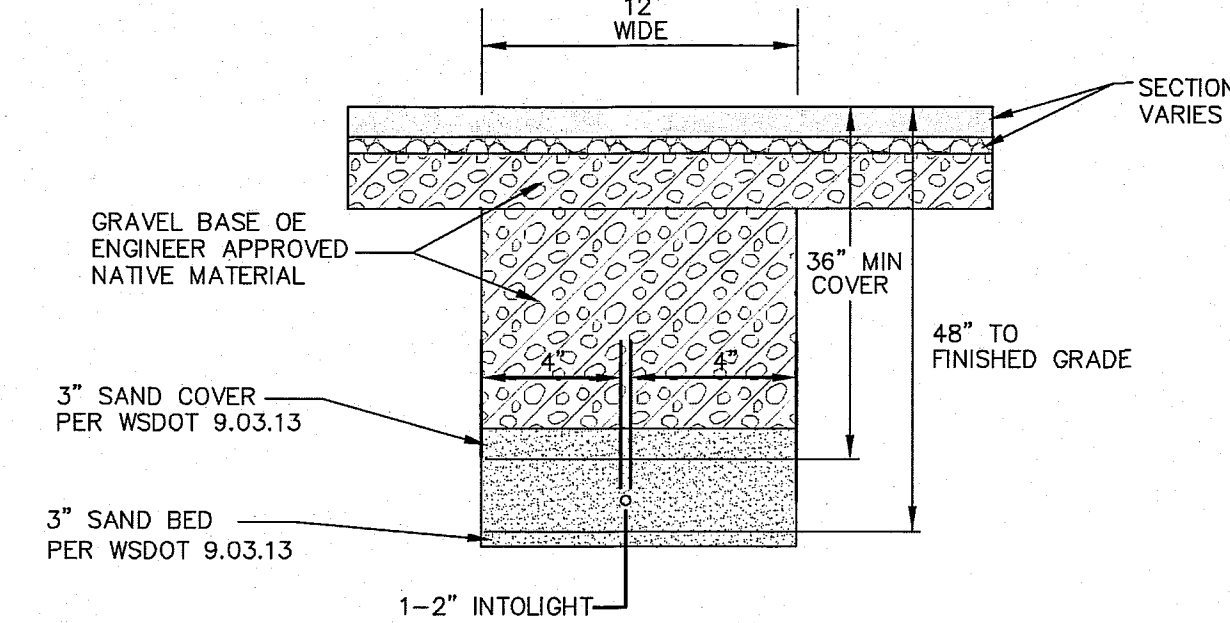
COMMON UTILITY TRENCH
CROSSING APPROX STA 37+40
(LENGTH APPROX 65 LF)



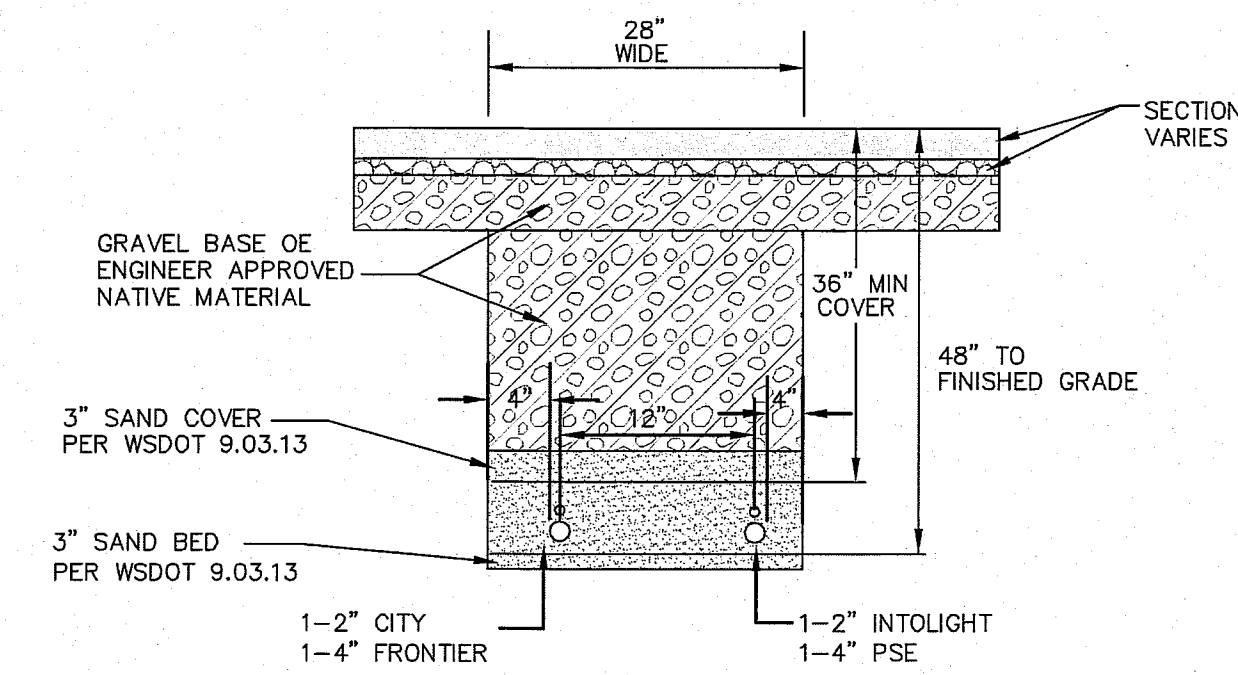
COMMON UTILITY TRENCH
CROSSING APPROX STA 44+86
(LENGTH APPROX 160 LF)



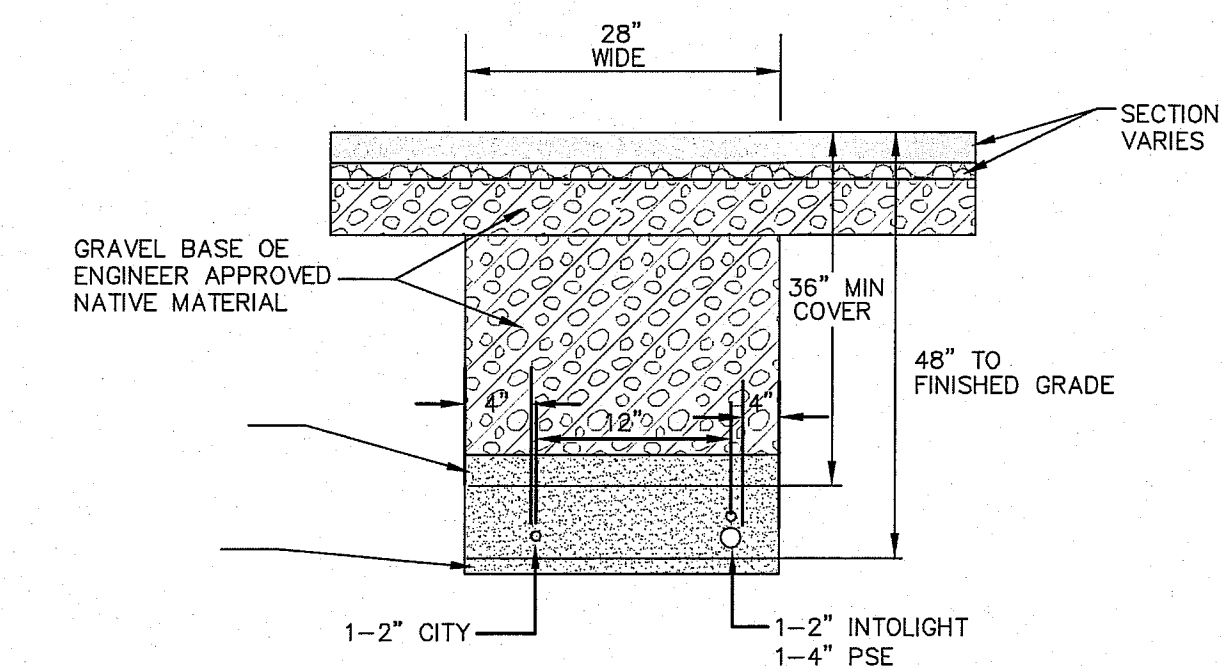
COMMON UTILITY TRENCH
CROSSING APPROX STA 46+53
(LENGTH APPROX 110 LF)
CROSSING APPROX STA 48+40
(LENGTH APPROX 183 LF)



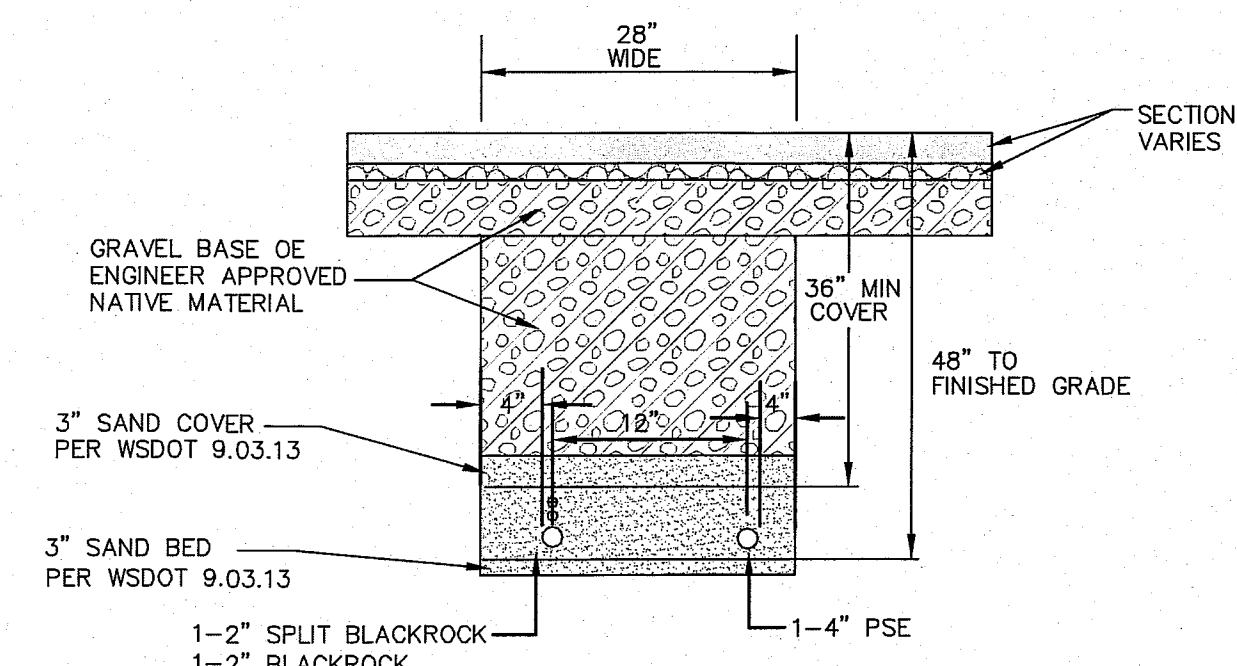
COMMON UTILITY TRENCH
CROSSING APPROX STA 49+60
CROSSING APPROX STA 55+64
(LENGTH APPROX 75 LF)



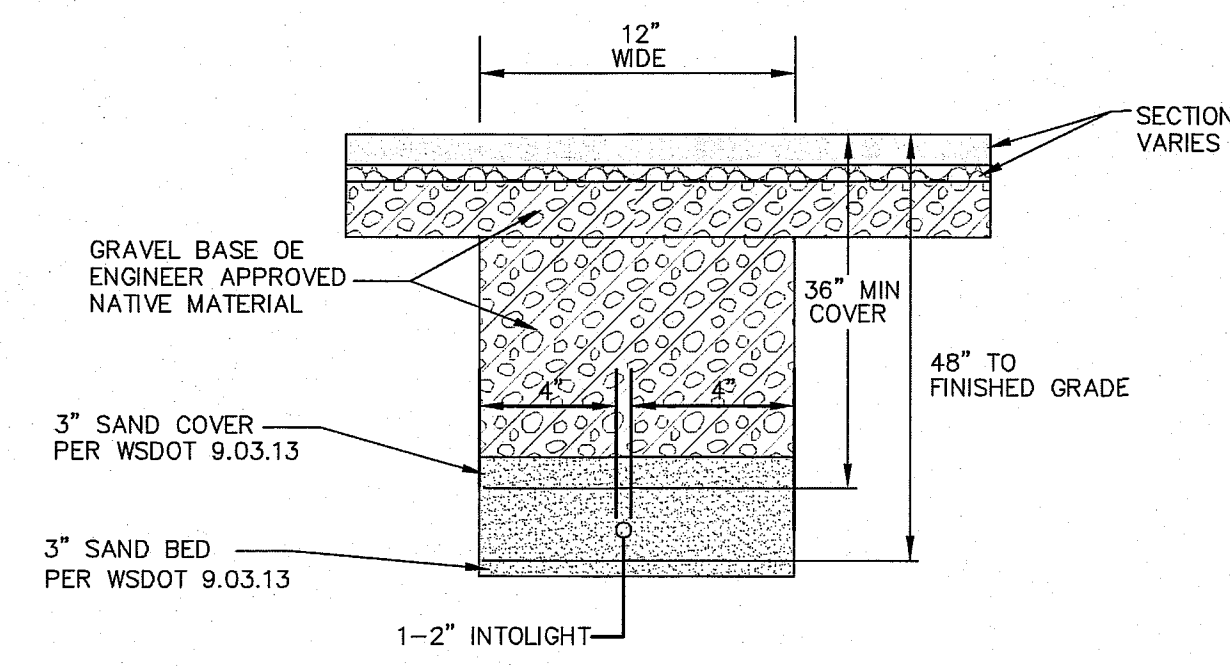
COMMON UTILITY TRENCH
CROSSING APPROX STA 52+50
(LENGTH APPROX 80 LF)



COMMON UTILITY TRENCH
CROSSING APPROX STA 57+44
(LENGTH APPROX 75 LF)



COMMON UTILITY TRENCH
APPROX STA 57+47, 37' RT TO 245' RT
(LENGTH APPROX 208 LF)



COMMON INTOLIGHT UTILITY TRENCH
APPROX STA 49+65 TO 51+45, LT
APPROX STA 52+50 TO 52+75, LT
APPROX STA 54+25 TO 56+00, LT
APPROX STA 57+44 TO 57+83, LT

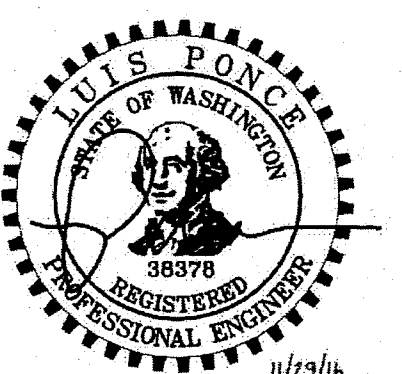
FRONTIER HANDHOLE SCHEDULE

STATION	OFFSET	DIMENSIONS
37+41	37' LT	3'W x 5'L x 3'D
37+41	28' RT	3'W x 5'L x 3'D
38+12	28' RT	3'W x 5'L x 3'D
44+82	135' LT	3'W x 5'L x 3'D
44+84	28' RT	3'W x 5'L x 3'D
46+48	28' RT	3'W x 5'L x 3'D
48+36	32.5' RT	3'W x 5'L x 3'D
48+47	32.5' RT	3'W x 5'L x 3'D
52+47	42' RT	3'W x 5'L x 3'D
52+59	39' LT	3'W x 5'L x 3'D
53+27	39' RT	3'W x 5'L x 3'D
54+90	37.5' RT	3'W x 5'L x 3'D
55+88	37.5' RT	3'W x 5'L x 3'D
58+38	38' RT	3'W x 5'L x 3'D

NOTE:

STATION AND OFFSET ARE
 APPROXIMATE ONLY. LOCATIONS
 ARE SUBJECT TO CHANGE.

**SUBMITTED WITH
 DESIGN PLAN**



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 LP
 DRAWN BY
 LMC
 CHECKED BY



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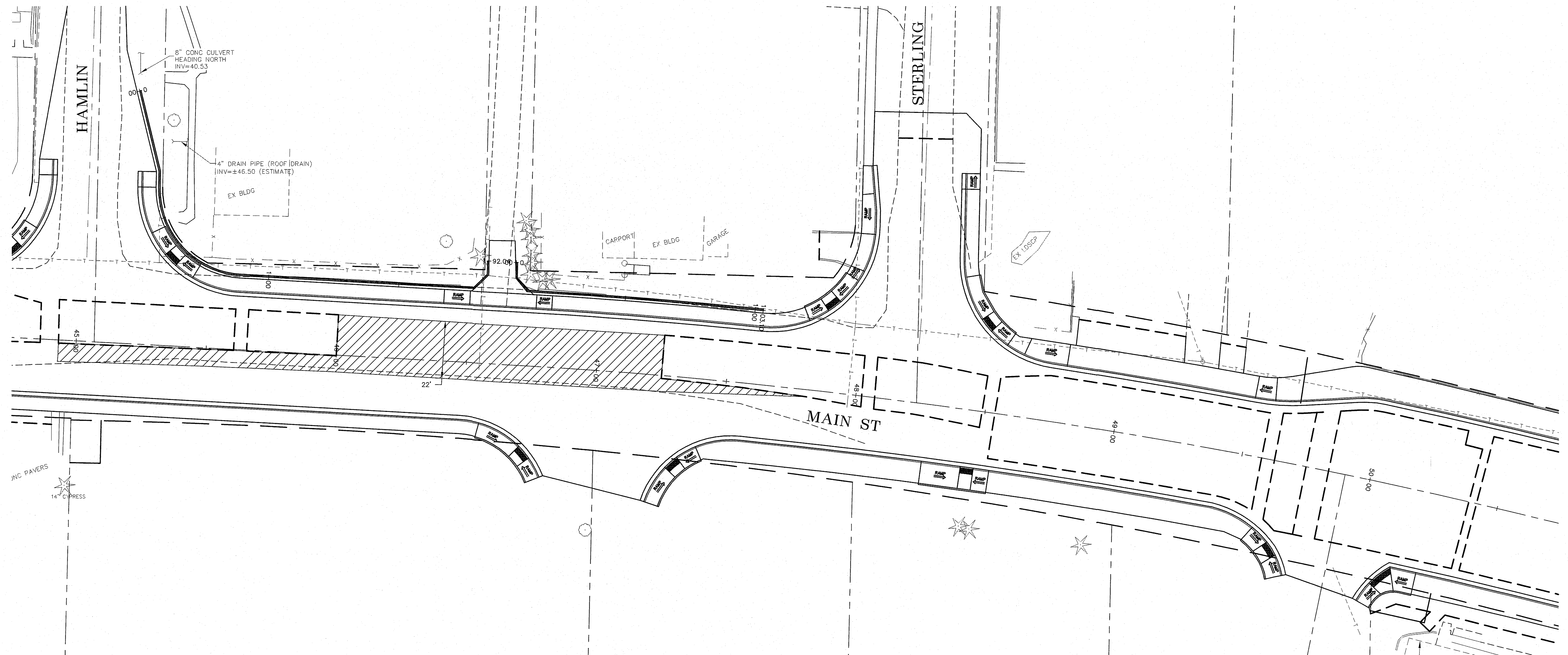
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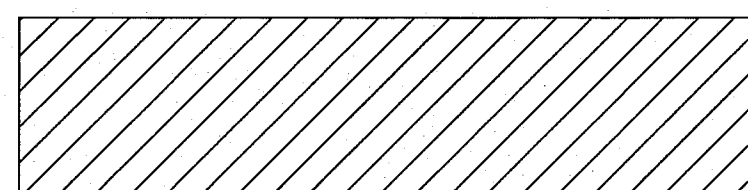
NO. DATE REVISION BY

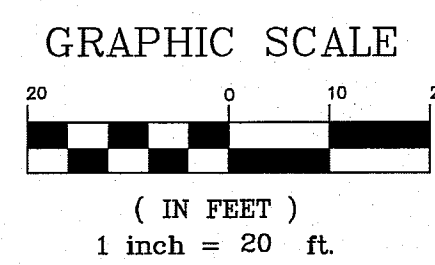
CITY OF FERNDAL
 PO BOX 936
 FERNDAL, WA 98248

MAIN STREET
 ADDENDUM 1

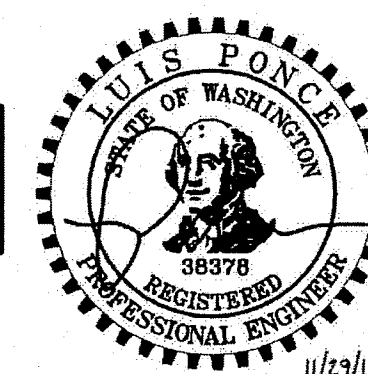
JOB# / DWG 08018	DET	DATE 8-5-10
SCALE H: N/A	V: N/A	SHEET 43



 =TEMPORARY PAVEMENT SECTION, 4" HMA DEPTH



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DATE

REVISION

BY

CITY OF FERDALE
PO BOX 936
FERDALE, WA 98248

MAIN STREET
TEMPORARY PAVEMENT SECTION
ADDENDUM 1

JOB# / DWG
08018 08018_SP1.AB

SCALE
H: 1"=20' V: N/A

DATE
8-5-10

SHEET

44

20610.044 12/23/16 stt