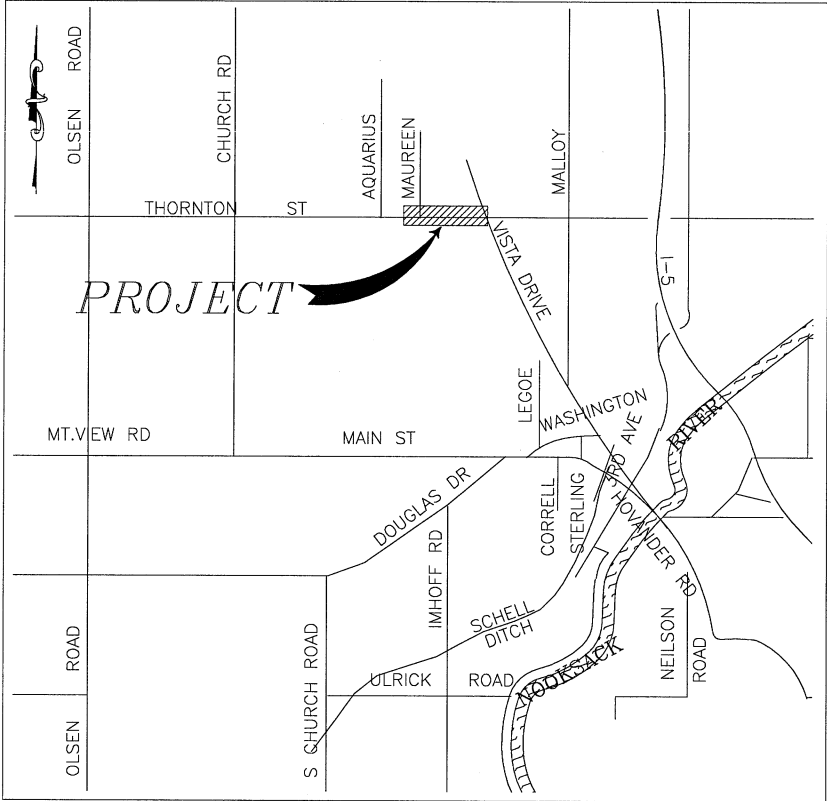


THORNTON STREET IMPROVEMENT PROJECT, MAUREEN to VISTA

CITY OF FERNDALE
FEDERAL AID No: STPUS-8044(002)

VICINITY MAP
NTS



SHEET INDEX

- 1.) COVER SHEET
- 2.) EXISTING CONDITIONS
STA -0+70 TO 5+50
- 3.) EXISTING CONDITIONS
STA 5+50 TO 9+00
- 4.) EXISTING CONDITIONS
STA 9+00 TO 13+00
- 5.) TRAFFIC CONTROL PLAN
- 6.) TESC & DEMOLITION PLAN
STA -0+70 TO 9+00
- 7.) TESC & DEMOLITION PLAN
STA 9+00 TO 13+00
- 8.) DEMOLITION PLAN
STA -0+70 TO 9+00
- 9.) DEMOLITION PLAN
STA 9+00 TO 13+00
- 10.) PLAN & PROFILE
STA -0+70 TO 5+39
- 11.) PLAN & PROFILE
STA 5+39 TO 9+00
- 12.) PLAN & PROFILE
STA 9+00 TO 13+00
- 13.) GRADING PLAN
- 14.) CHANNELIZATION PLAN
- 15.) LANDSCAPE PLAN
- 16.) LANDSCAPE DETAIL SHEET
- 17.) TYPICAL SECTIONS
- 18.) WATER DETAILS
- 19.) STORM DETAILS
- 20.) SEWER DETAILS
- 21.) MISC DETAILS

EXISTING		LEGEND		PROPOSED			
BB	BB	=	EX TOE OF BANK		= PROPOSED AUTOTURN		
OH	OH	=	EX OVERHEAD POWER		= PROPOSED DITCH CL		
		=	EX CONCRETE		= PROPOSED BUILDING		
95		=	EX MAJOR CONTOUR	BB	BB	=	PROPOSED TOE OF BANK
95		=	EX MINOR CONTOUR			=	PROPOSED CONDUIT
		=	EX CULVERT	TB	TB	=	PROPOSED TOP OF BANK
		=	EX DITCH CL	95		=	PROPOSED MAJOR CONTOUR
X	X	=	EX FENCE	95		=	PROPOSED MINOR CONTOUR
FO	FO	=	EX FIBER OPTICS LINE	X	X	=	PROPOSED FENCE
G	G	=	EX GAS MAIN			=	PROPOSED HANDRAIL
O	O	=	EX GUARDRAIL			=	PROPOSED CONSTRUCTION EASEMENT
		=	EX GRAVEL	FM	FM	=	PROPOSED SANITARY SEWER FORCE MAIN
		=	EX PROPERTY BOUNDARY	FO	FO	=	PROPOSED FIBER OPTICS
PR	PR	=	EX POWER BURIED			=	PROPOSED GRADE BREAK
		=	EX ROAD CL	O	O	=	PROPOSED GUARDRAIL
		=	EX EDGE OF PAVEMENT			=	PROPOSED GRAVEL
		=	EX RIGHT OF WAY			=	PROPOSED PATH
		=	EX TREE LINE			=	PROPOSED PARKING STRIPE
SD	SD	=	EX STORM DRAIN			=	PROPOSED TRAFFIC STRIPE
TS	TS	=	EX TRAFFIC SIGNAL CONDUCTOR			=	PROPOSED ROCK WALL
SS	SS	=	EX SANITARY SEWER			=	PROPOSED BACK OF CURB
		=	EX TRAFFIC STRIPING			=	PROPOSED ROAD CL
		=	EX PARKING STRIPING			=	PROPOSED ROAD EDGE OF PAVEMENT
TB	TB	=	EX TOP OF BANK			=	PROPOSED ROAD FACE OF CURB
T	T	=	EX TELEPHONE LINE			=	PROPOSED ROAD LIP OF GUTTER
OT	OT	=	EX OVERHEAD TELEPHONE			=	PROPOSED RIGHT OF WAY
TV	TV	=	EX TV LINE			=	PROPOSED SAWCUT
W	W	=	EX WATER LINE			=	PROPOSED STORM DRAIN
		=	EX SIDEWALK	SD		=	PROPOSED FIELD STORM DRAIN
		=	EX WETLANDS BOUNDARY	SD		=	PROPOSED TRAFFIC SIGNAL CONDUCTOR
		=	EX EASEMENT	TS	TS	=	PROPOSED SILT FENCE
		=	EX GRADE BREAK	X	X	=	PROPOSED SANITARY SEWER
FM	FM	=	EX SANITARY SEWER FORCE MAIN	SS		=	PROPOSED TREE LINE
		=	EX FLOWLINE			=	PROPOSED WATERMAIN
		=	EXISTING RR TRACKS	W		=	PROPOSED SIDEWALK
		=	EX BUILDING			=	PROPOSED PAVEMENT VALLEY
		=	EX CONCRETE			=	PROPOSED TEMPORARY CONSTRUCTION EASEMENT AREA
		=	EX MONITORING WELL			=	PROPOSED GRIND
		=	EX SOIL BORING LOCATION			=	PROPOSED DEMOLITION AREA
		=	EX GUY WIRE			=	PROPOSED ASPHALT APRON
		=	EX STORM CLEANOUT			=	PROPOSED RIGHT OF WAY TAKE
		=	EX SEWER CLEANOUT			=	PROPOSED CONC. SIDEWALK / DRIVEWAY
		=	EX JBOX			=	PROPOSED INFILTRATION TRENCH
		=	EX STREET LIGHT			=	PROPOSED INFILTRATION FILTER MEDIA
		=	EX MAIL BOX			=	PROPOSED BUILDING
		=	EX WATER METER			=	PROPOSED MONITORING WELL
		=	EX WATER SPIGOT			=	PROPOSED STORM DRAIN CATCH BASIN TYPE I
		=	EX WATER VALVE			=	PROPOSED STORM DRAIN CATCH BASIN TYPE II
		=	EX FIRE HYDRANT			=	PROP STORM CLEANOUT
		=	EX TRAFFIC SIGNAL VAULT			=	PROPOSED STORM DRAIN INLET
		=	EX SEWER MANHOLE			=	PROPOSED SANITARY SEWER MANHOLE
		=	EX STORM DRAIN CATCH BASIN TYPE I			=	PROPOSED SANITARY SEWER MANHOLE
		=	EX STORM DRAIN CATCH BASIN TYPE II			=	PROPOSED SANITARY SEWER CLEAN OUT
		=	EX UTILITY POLE			=	PROPOSED HYDRANT
		=	EX GAS METER			=	PROPOSED WATER METER
		=	EX TRANSFORMER PAD			=	PROPOSED WATER VALVE
		=	EX POWER VAULT			=	PROPOSED COUPLER
		=	EX SIGN			=	PROPOSED UTILITY POLE
		=	EX TELEPHONE PEDESTAL			=	PROPOSED SIGN
		=	EX SIGNAL POLE AND ARM W/ LUMINAIRE			=	PROPOSED SIGN
		=	EX TREE			=	PROPOSED SIGN
		=	EX VEGETATION			=	PROPOSED SIGN

ABBREVIATIONS

AC	= ASPHALT CEMENT	L	= LENGTH	R&C	= RING AND COVER
ASPH	= ASPHALT	LF	= LINEAR FEET	SSMH	= SANITARY SEWER MANHOLE
BLDG	= BUILDING	LOC	= LOCATION	SCH	= SCHEDULE
CATV	= CABLE TELEVISION	MAX	= MAXIMUM	S	= SOUTH
CL	= CLASS, CENTERLINE	MPOC	= MID-POINT ON CURVE	STD	= STANDARD
COMP	= COMPACTED	MIN	= MINIMUM	SP	= STANDARD PLAN
CONC	= CONCRETE	MOD	= MODIFIED	STA	= STATION
C & G	= CURB & GUTTER	MW	= MONITORING WELL	SDCB	= STORM DRAIN CATCH BASIN
CPDP	= CORRUGATED POLYETHYLENE DRAIN PIPE	MON	= MONUMENT	SDMH	= STORM DRAIN MANHOLE
Ø	= DIAMETER	N	= NORTH	TEL	= TELEPHONE
DI	= DUCTILE IRON	OC	= ON CENTER	TL	= TRAFFIC LOOP
E	= EAST	PVMT	= PAVEMENT	TYP	= TYPICAL
EOP, EP	= EDGE OF PAVEMENT	PED	= PEDESTAL	UP	= UTILITY POLE
EX, EXIST	= EXISTING	PCC	= POINT OF COMPOUND CURVATURE	V	= VAULT
IR	= EXISTING IRRIGATION	PC	= POINT OF CURVATURE	WSDOT	= WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
SN	= EXISTING SIGN	PRC	= POINT OF REVERSE CURVE	W	= WEST
FT	= FEET	PT	= POINT OF TANGENCY	WM	= WATER METER
FL	= FLOW LINE	POC	= POINT ON CURVE		
FF	= FINISHED FLOOR	PVC	= POLYVINYL CHLORIDE		
FG	= FINISHED GRADE	PCC	= PORTLAND CEMENT CONCRETE		
FT/FT	= FEET PER FOOT	POSS	= POSSIBLE		
F&C	= FRAME AND COVER	PROP	= PROPOSED		
F&G	= FRAME AND GRATE	R	= RADIUS		
IW	= INJECTION WELL	ROW	= RIGHT OF WAY		
IE, INV	= INVERT ELEVATION				

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ENGINEERING INC
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813 Metcalf St, Sedro-Woolley, WA 98284 (360) 855-1713

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2095 MAIN ST
FERNDALE, WA 98248

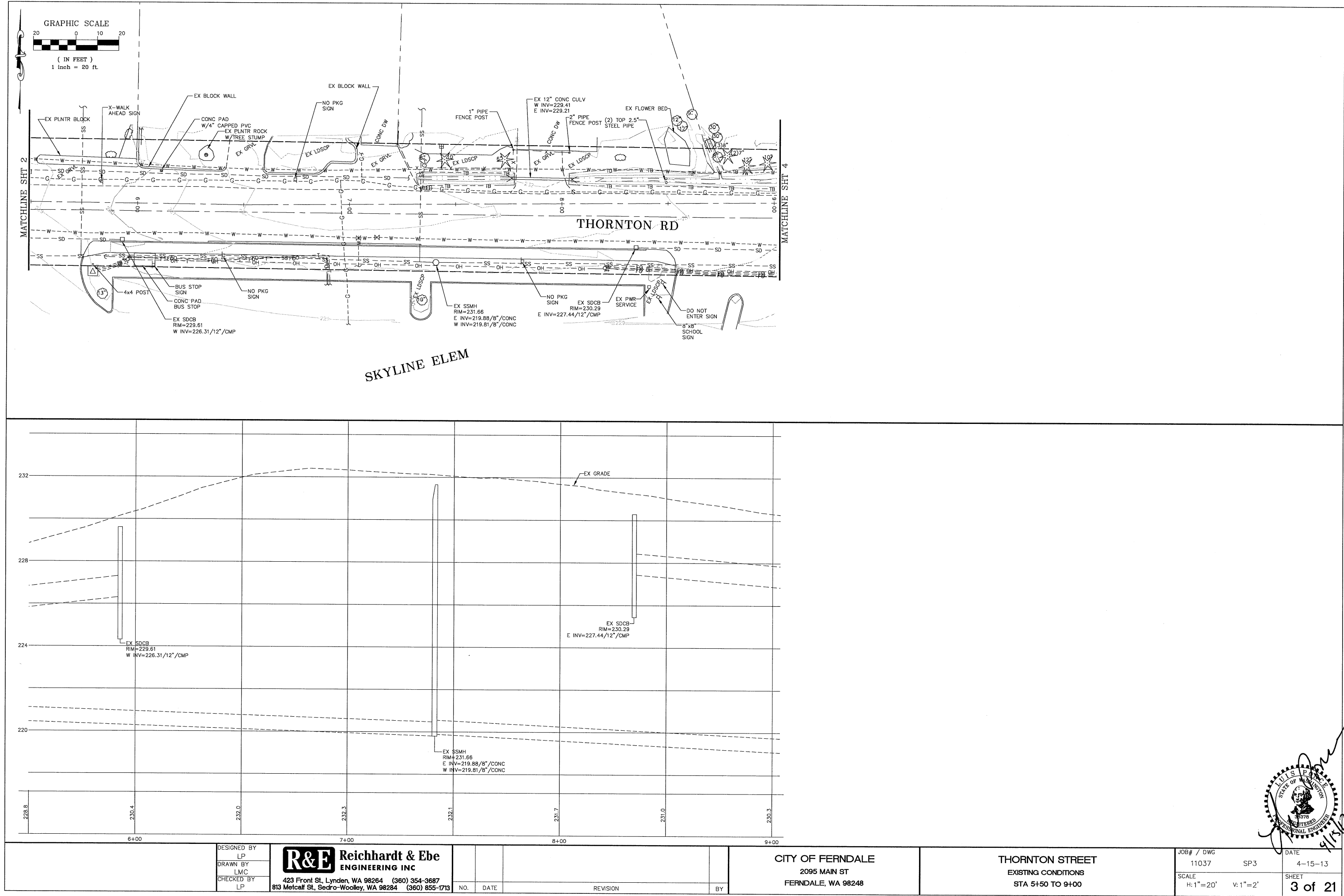
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COVER SHEET

JOB# / DWG
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H:n/a V:n/a

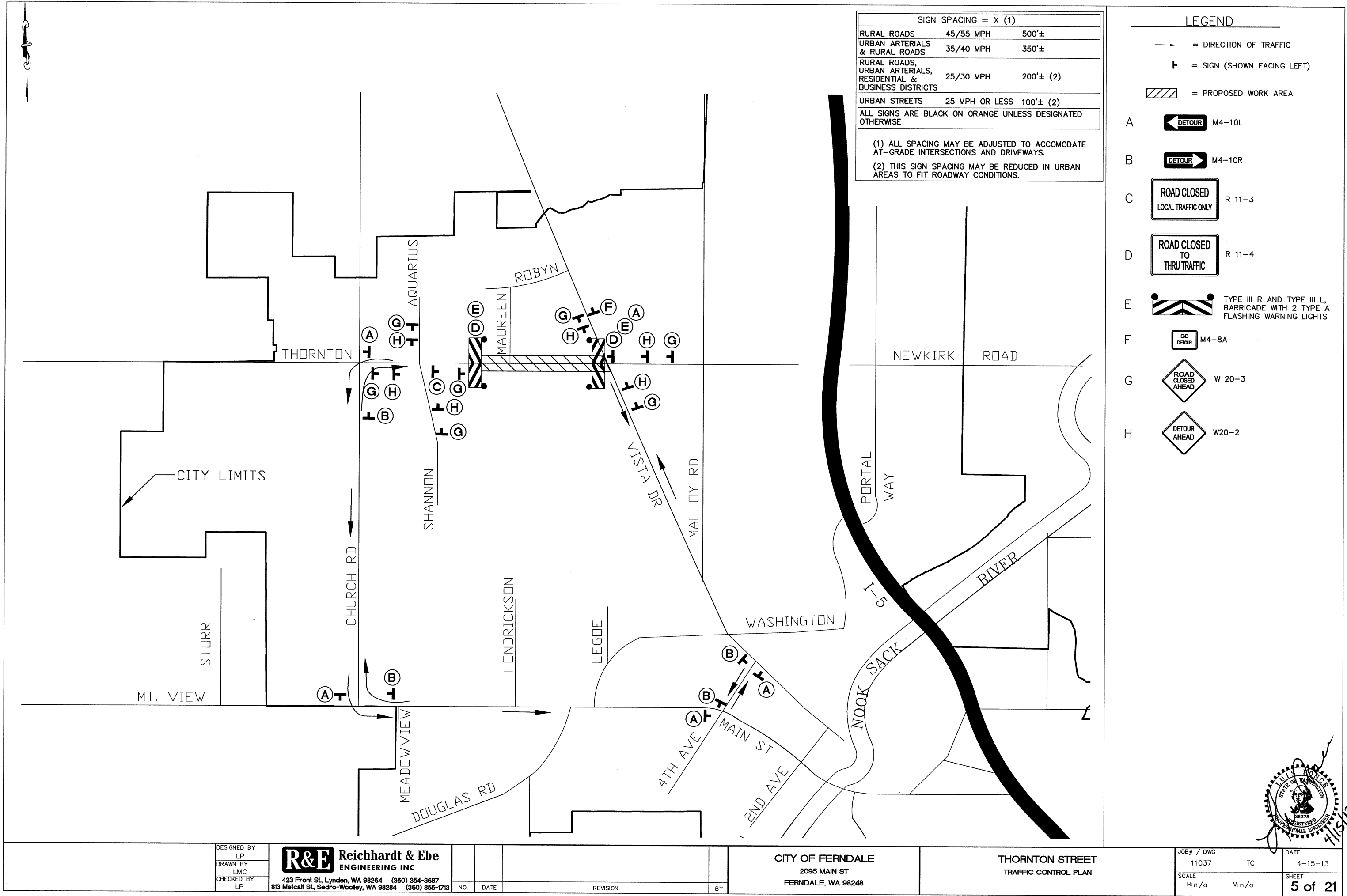
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1 of 21



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THORNTON STREET
TRAFFIC CONTROL PLAN

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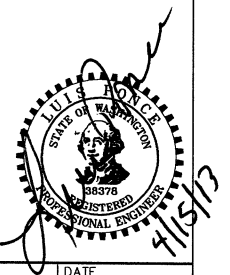
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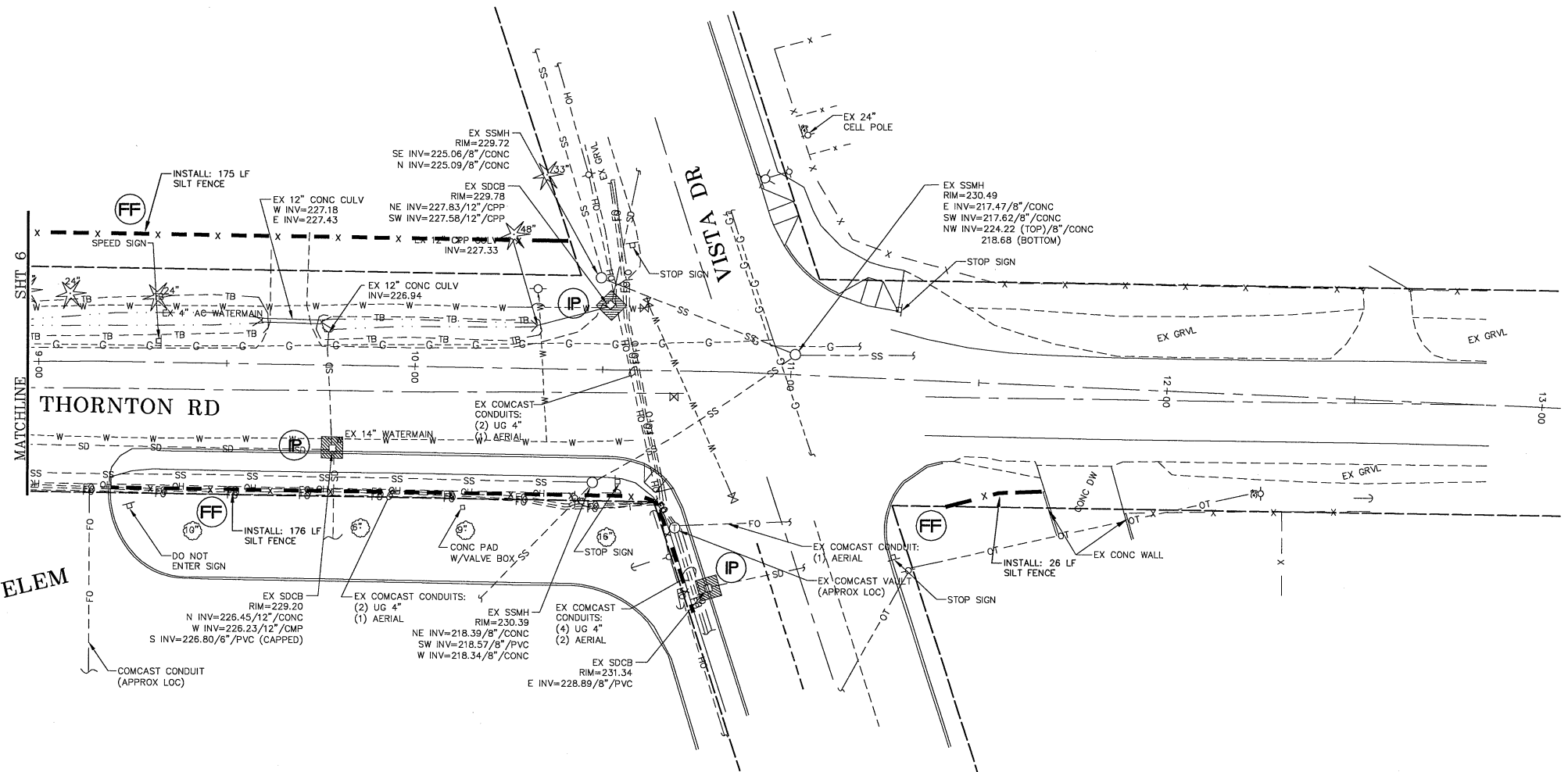
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5 of 21





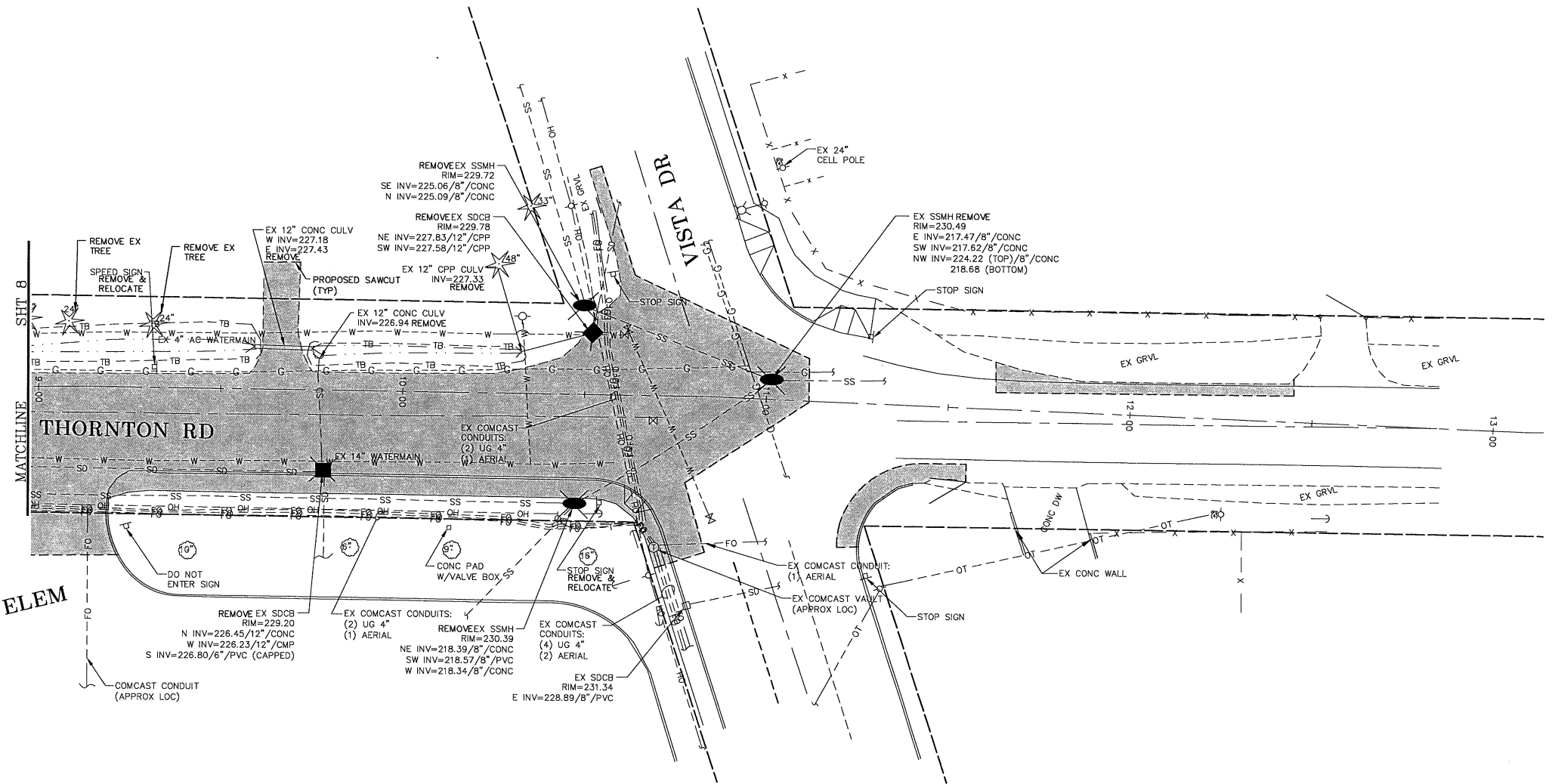
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THORNTON STREET
TESC PLAN
STA 9+00 TO 13+00

JOB# / DWG 11037 SP3	DATE 4-15-13
SCALE H: 1"=20' V: n/a	SHEET 7 of 21



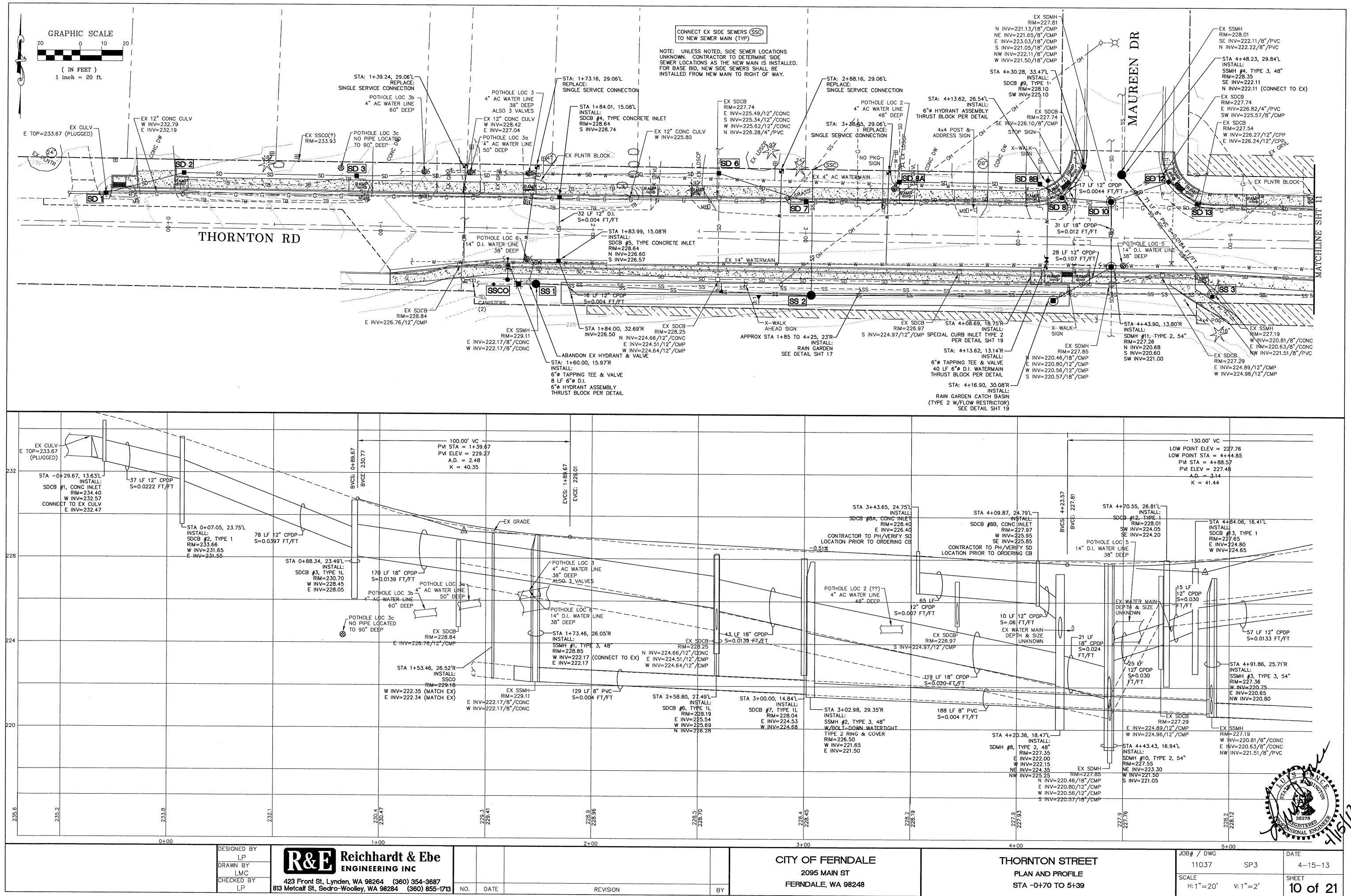
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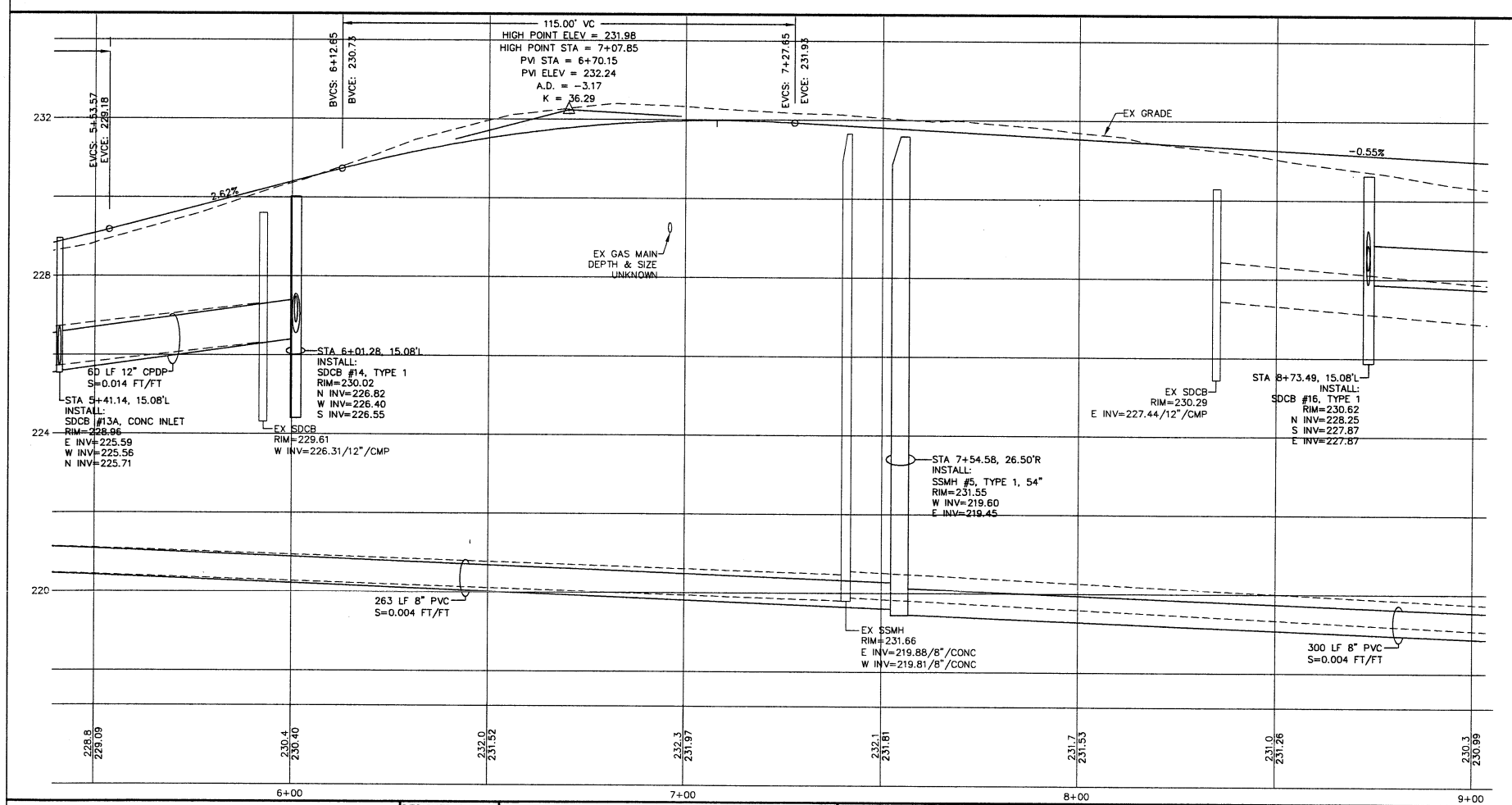
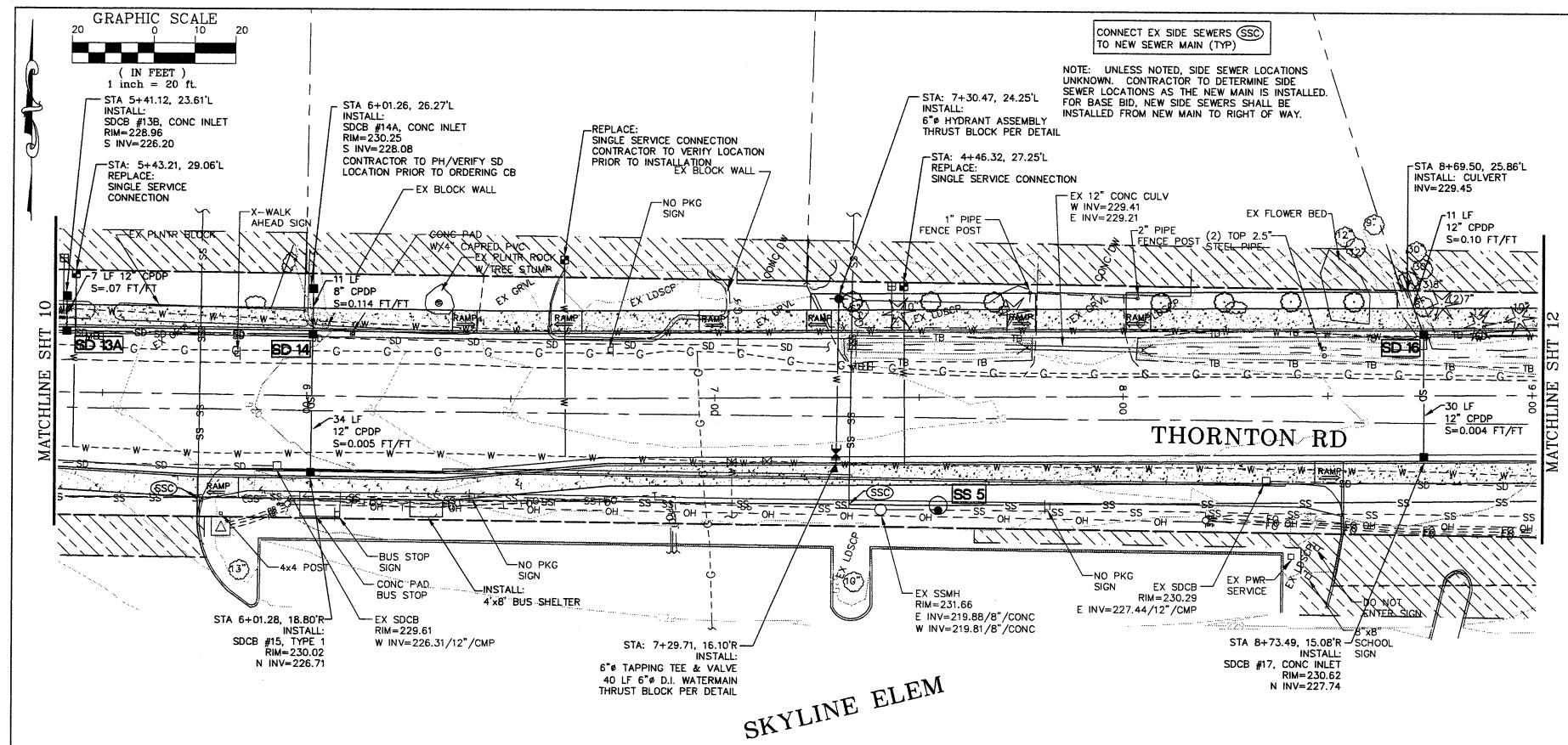
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2095 MAIN ST
FERNDALE, WA 98248

THORNTON STREET
DEMOLITION PLAN
STA 9+00 TO 13+00

JOB# / DWG 11037 SP3	DATE 4-15-13
SCALE H: 1"=20' V: n/a	SHEET 9 of 21



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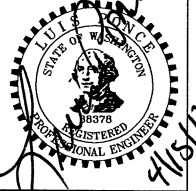
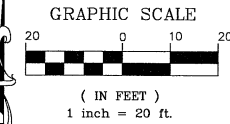
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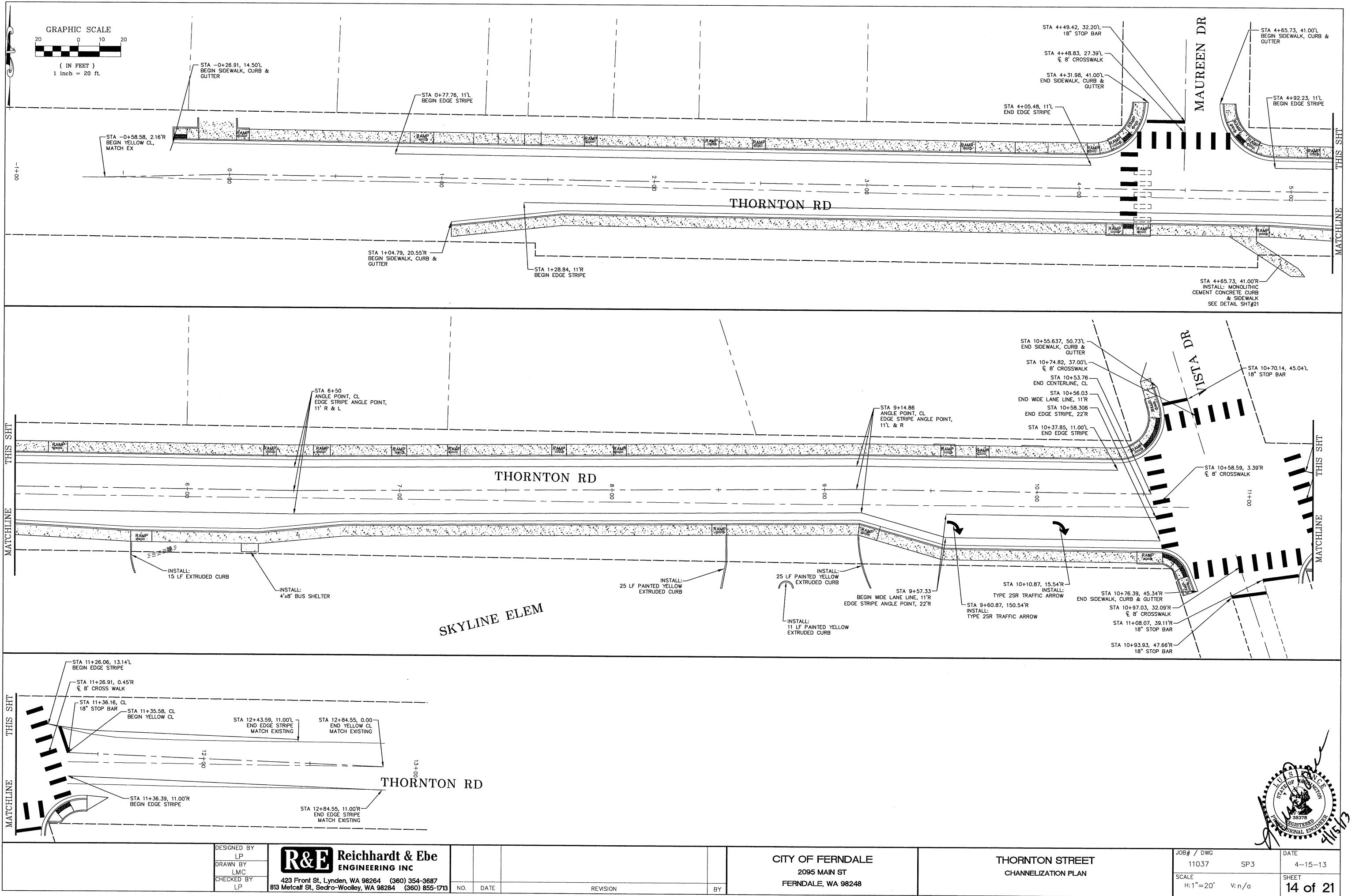
THORNTON STREET
PLAN AND PROFILE
STA 5+39 TO 9+00

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SCALE	H: 1"=20' V: 1"=2'	SHEET	11 of 21

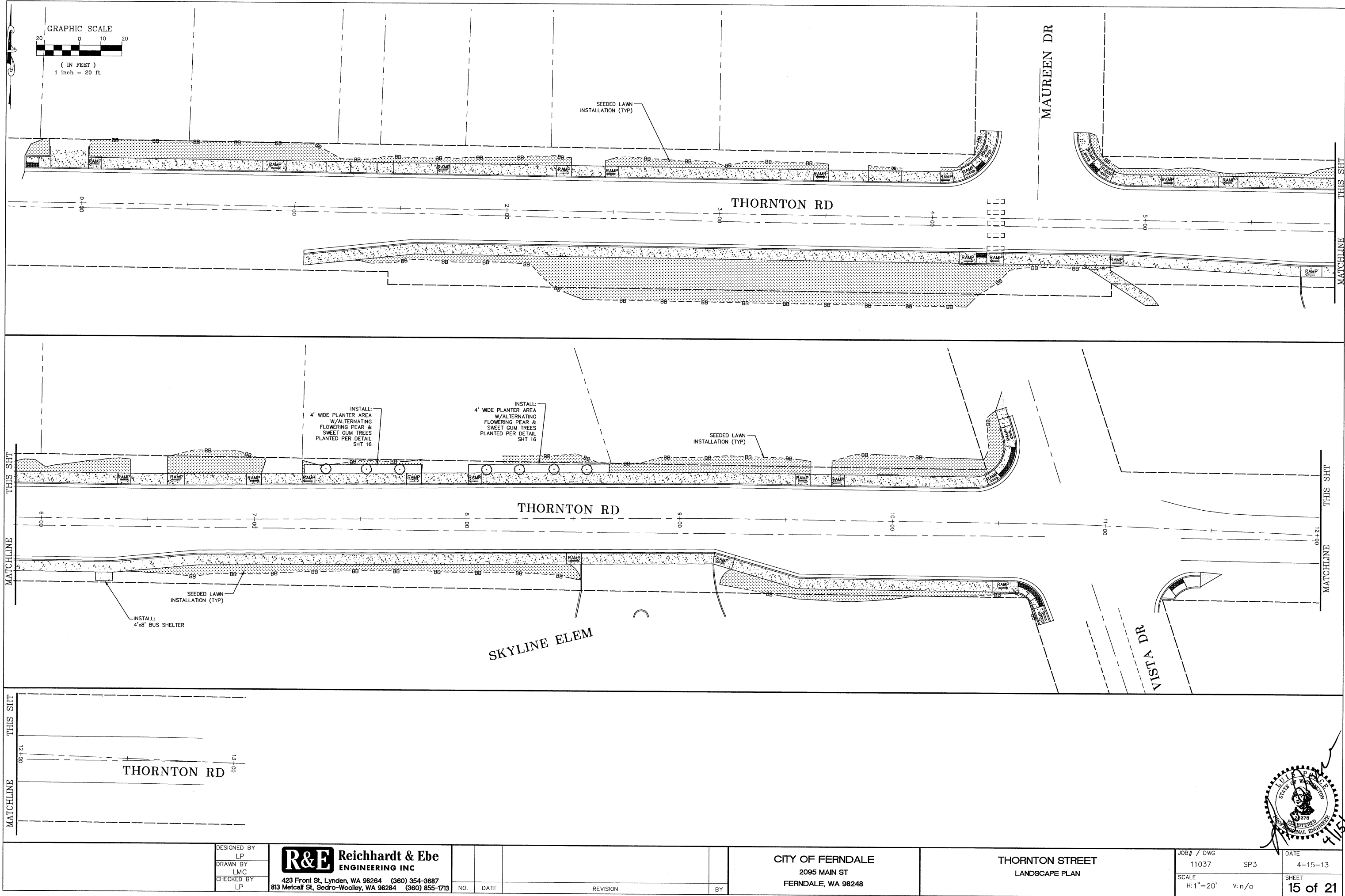




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THORNTON STREET
LANDSCAPE PLAN

JOB# / DWG

11037

SP3

DATE

4-15-13

SCALE

H: 1"=20'

V: n/a

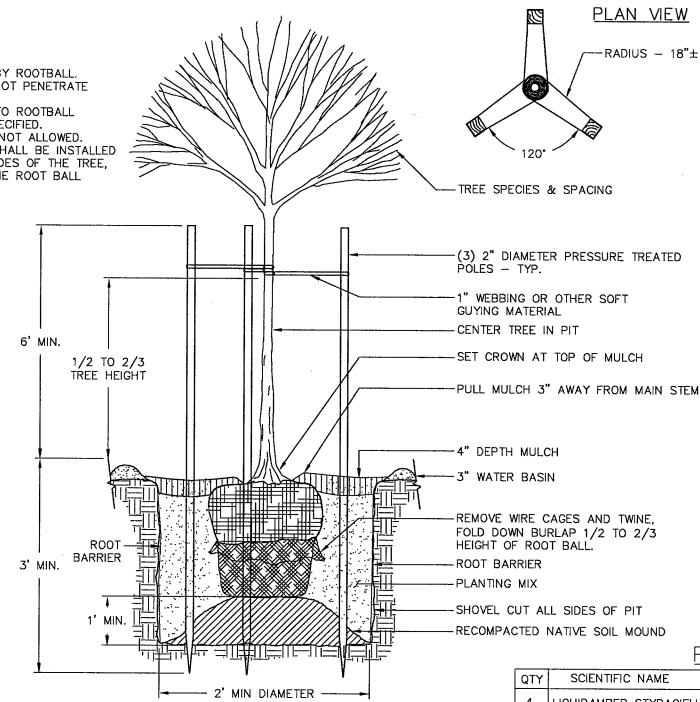
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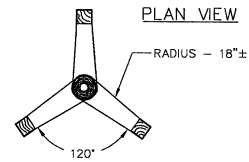


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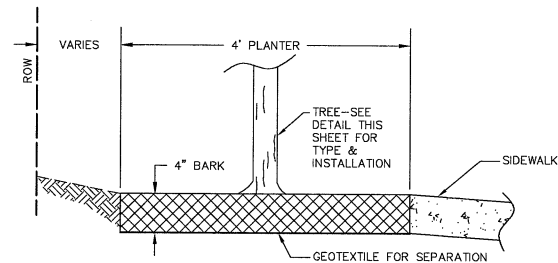
- NOTES:
1. HANDLE TREES BY ROOTBALL.
 2. STAKES SHALL NOT PENETRATE ROOT BALL.
 3. AVOID DAMAGE TO ROOTBALL.
 4. FERTILIZE AS SPECIFIED.
 5. WIRE GUYING IS NOT ALLOWED.
 6. ROOT BARRIER SHALL BE INSTALLED ON ALL FOUR SIDES OF THE TREE, SURROUNDING THE ROOT BALL.



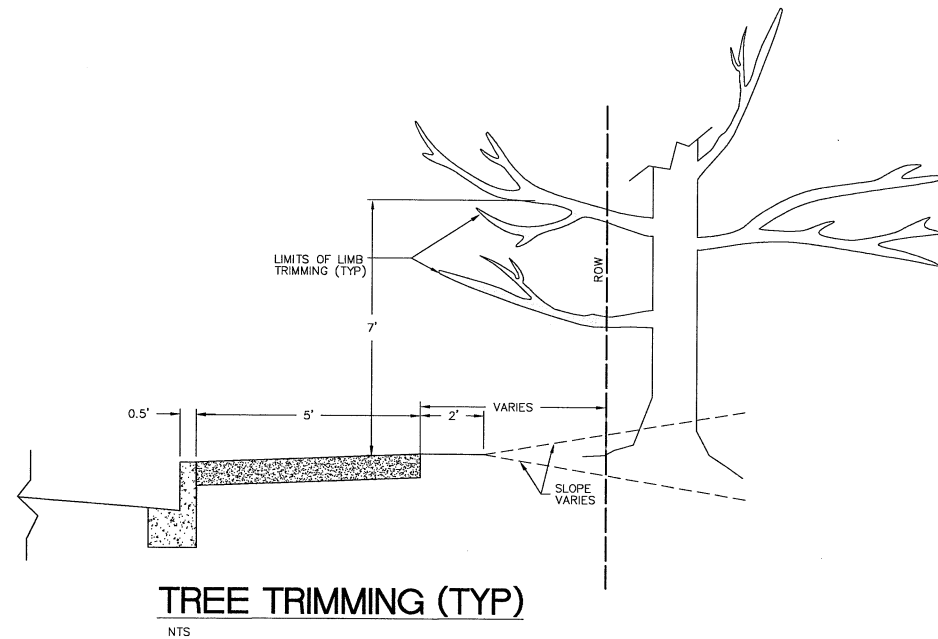
TREE PLANTING DETAIL
STA 7+24(LT) TO 8+67(LT)
NTS



PLANT LIST			
QTY	SCIENTIFIC NAME	COMMON NAME	SIZE
4	LIQUIDAMBER STYRACIFLUA	SWEET GUM	15 GAL, 1\" TRUNK, 8\" TALL
3	PYRUS CALLERYANA	GALLERY 'BRADFORD' FLOWERING PEAR	15 GAL, 1\" TRUNK, 8\" TALL



PLANTING DETAIL
STA 7+24 LT TO 8+67 LT
NTS



TREE TRIMMING (TYP)
NTS

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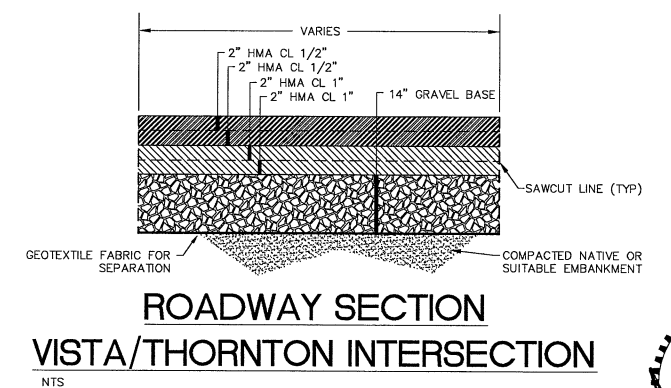
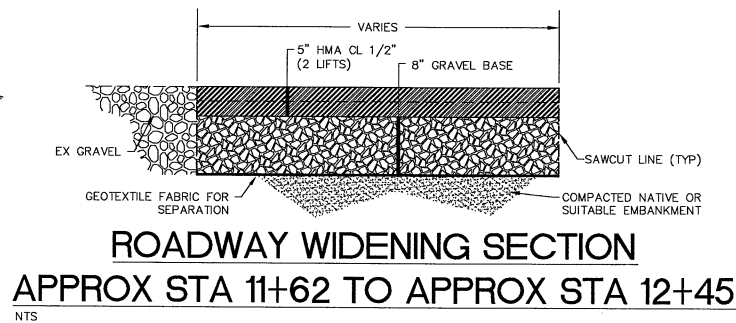
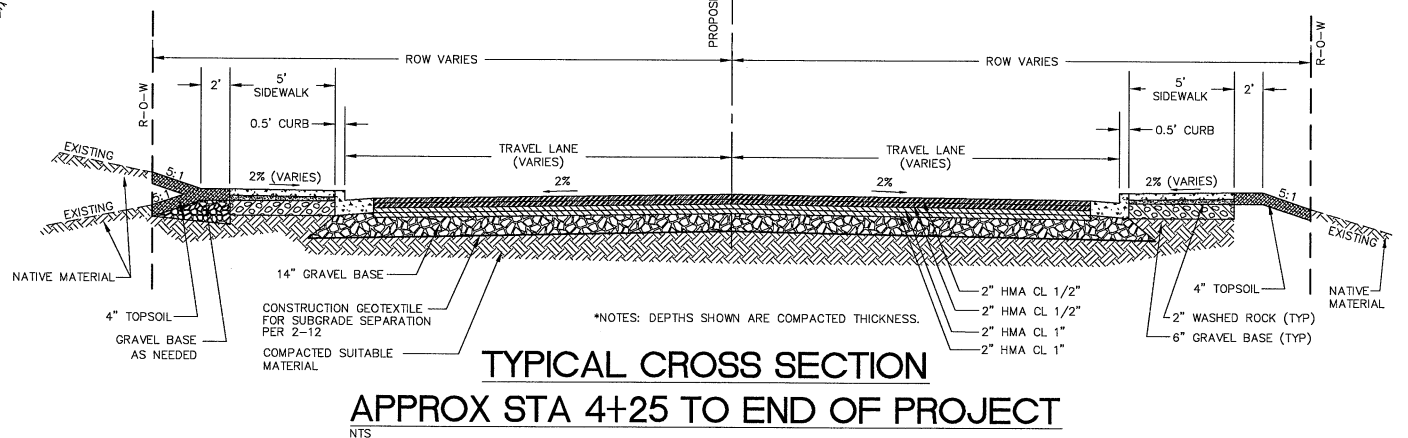
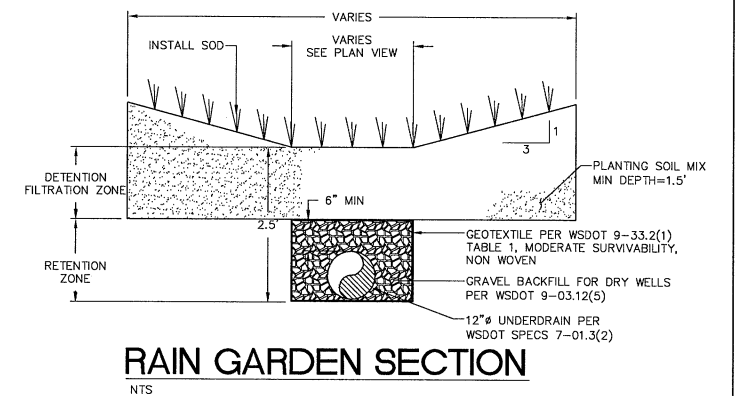
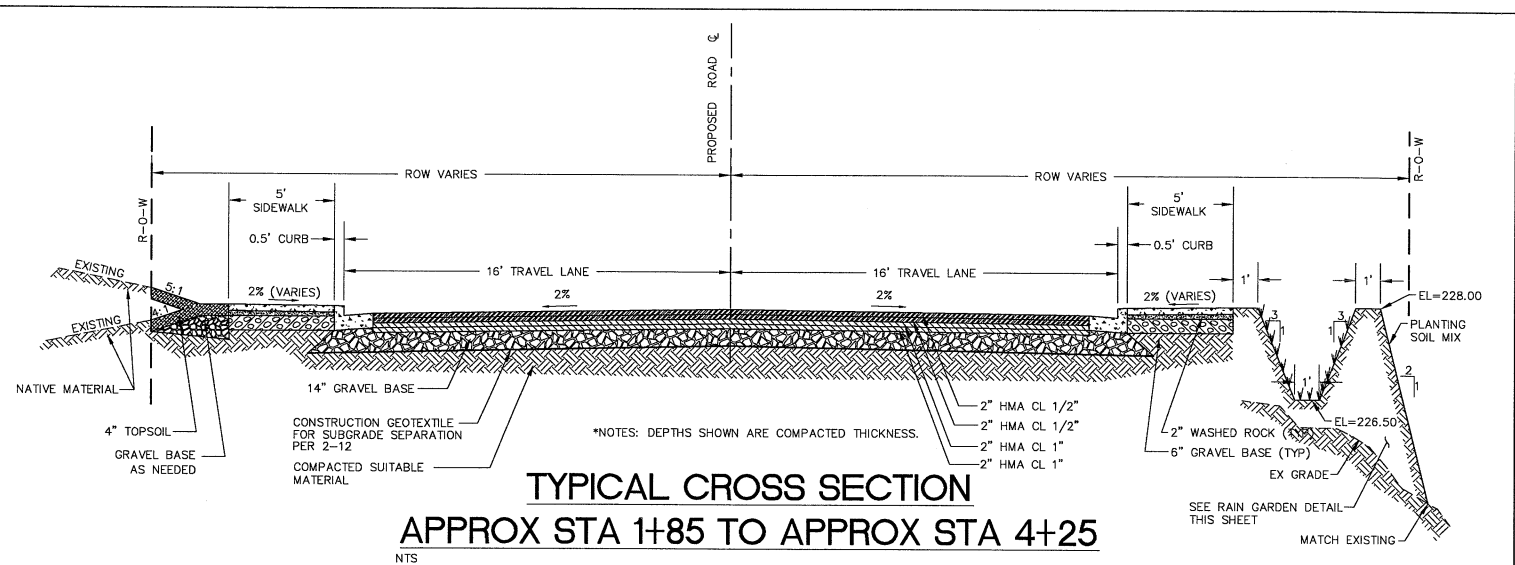
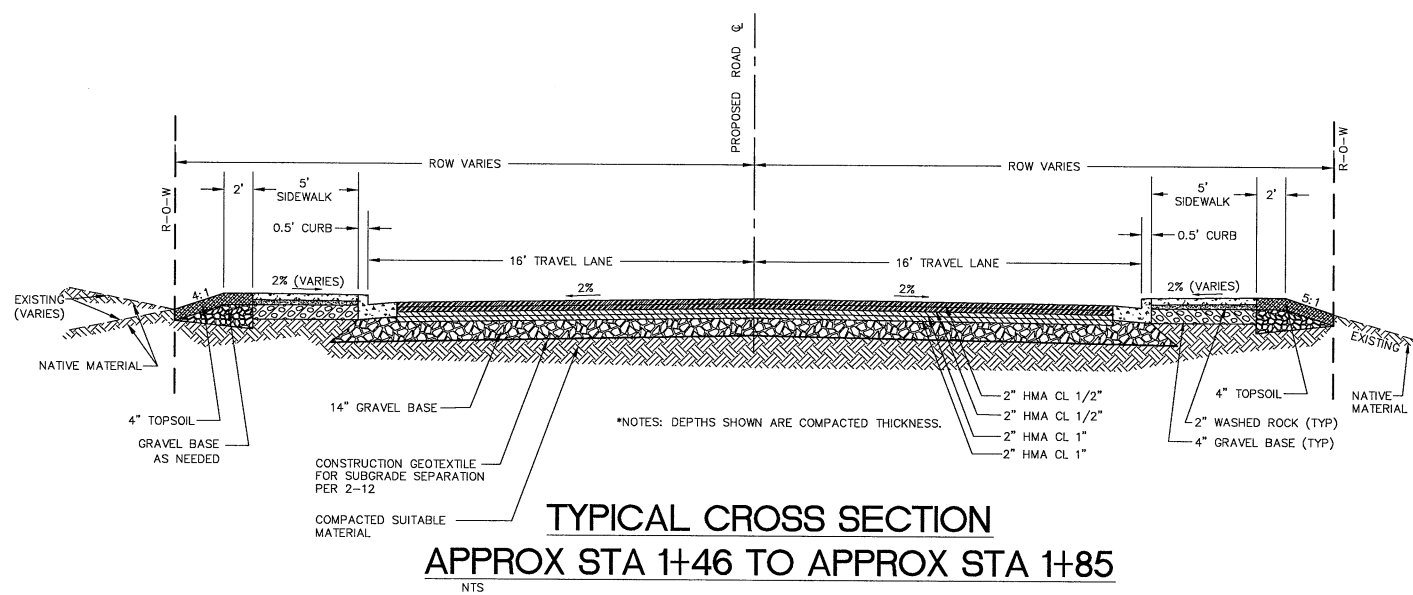
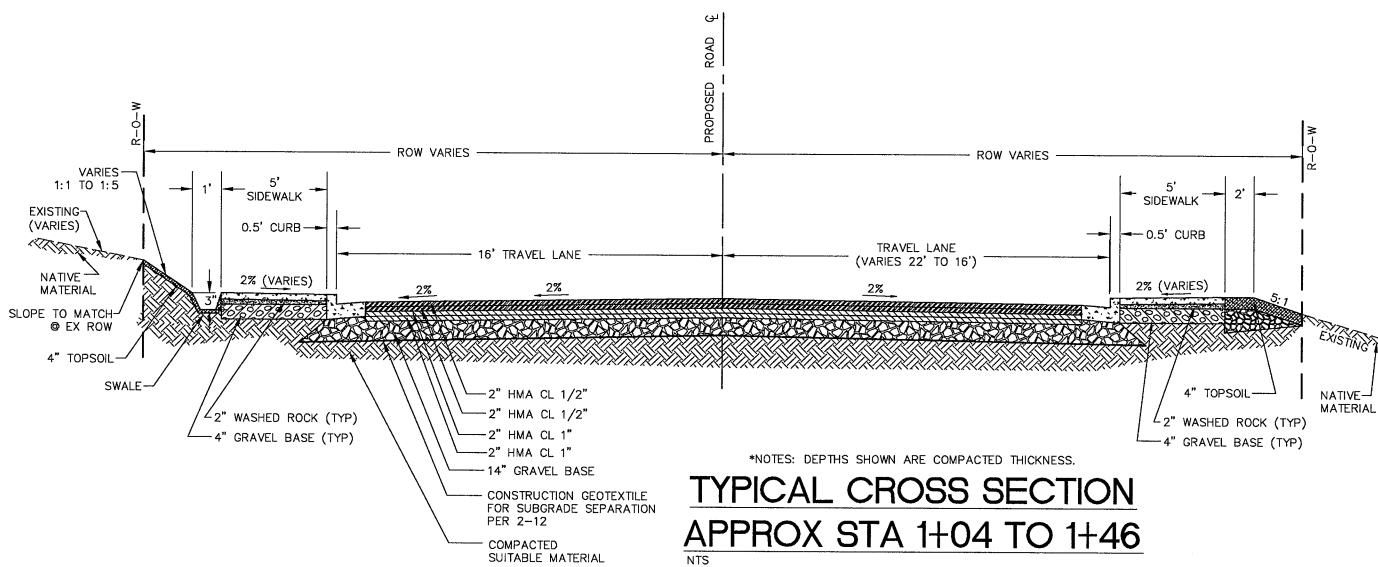
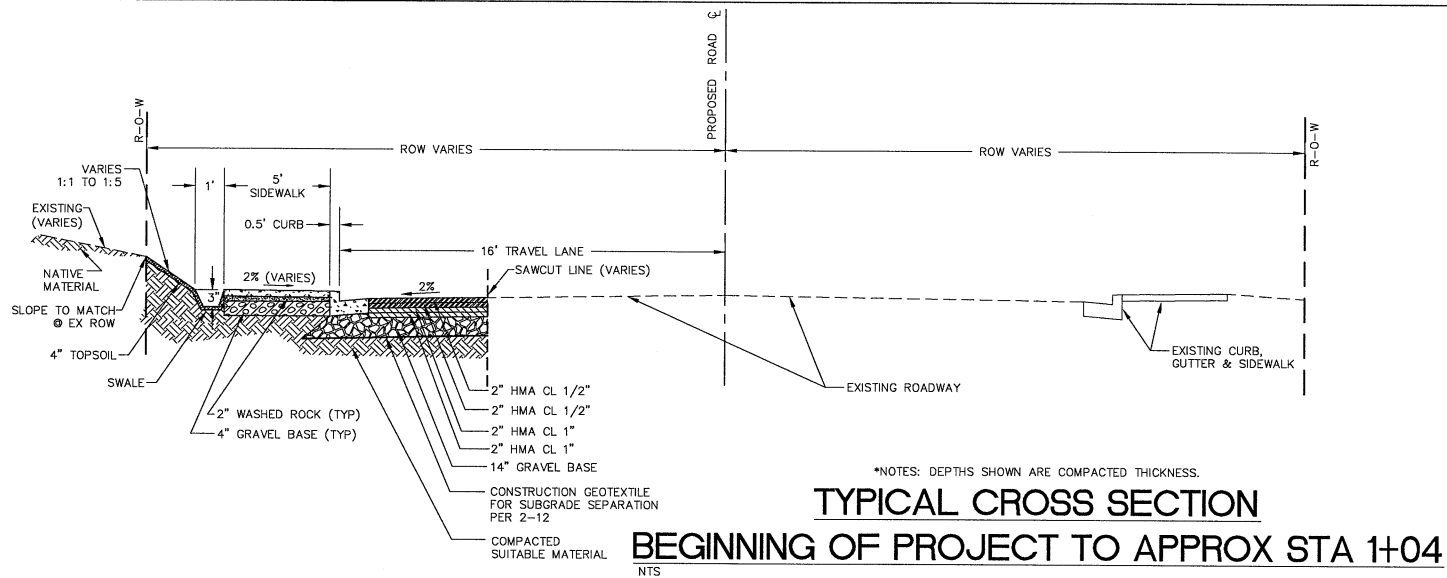
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THORNTON STREET
LANDSCAPE PLAN DETAILS

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

DATE
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SHEET
16 of 21





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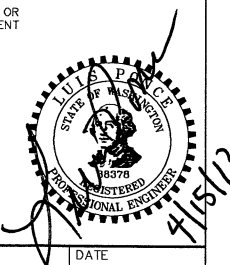
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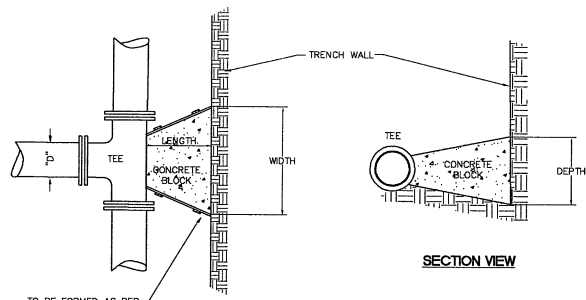
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FERNDALE, WA 98248

THORNTON STREET
TYPICAL SECTIONS

JOB# / DWG
11037 DET
SCALE
H:n/a V:n/a

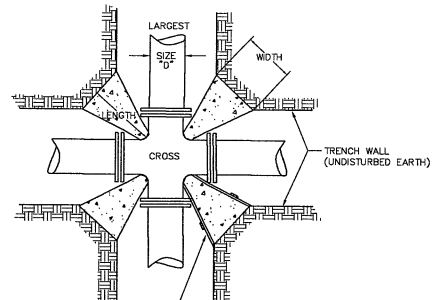
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SHEET
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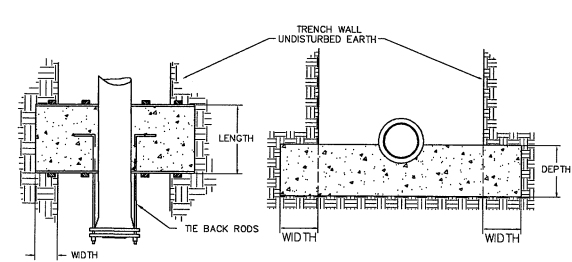
"D"	WIDTH	DEPTH	LENGTH	VOL.
6"	1'-6"	1'-6"	12"	3.0
8"	2'-0"	2'-0"	12"	4.5
10"	2'-6"	2'-6"	12"	7.0
12"	3'-0"	3'-0"	18"	14.0

VOL. = Approx. Volume of Blocking Material Required in cu. ft.
SOIL BEARING CAPACITY 1500 PSF MINIMUM
100 P.S.I. OPERATING PRESSURE



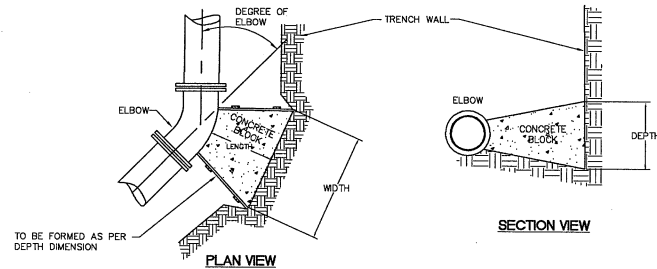
"D"	WIDTH	DEPTH	LENGTH	VOL.	X4 blocks/joint
6"	1'-0"	1'-0"	12"	0.63	2.50 cu ft
8"	1'-3"	1'-3"	12"	1.00	4.01 cu ft
10"	1'-6"	1'-6"	12"	1.63	6.50 cu ft
12"	1'-9"	1'-9"	18"	3.05	12.19 cu ft

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



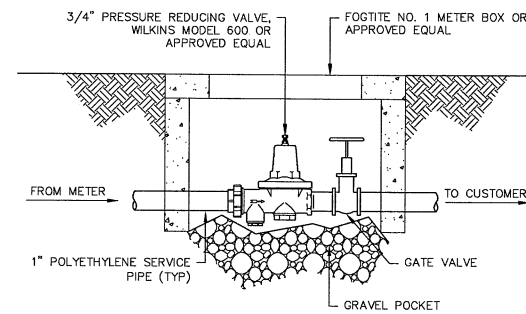
"D"	WIDTH	DEPTH	LENGTH	*VOL.	# OF RODS	ROD DIA.
6"	1'-6"	1'-6"	12"	7.5	2	1/2"
8"	2'-0"	2'-0"	18"	20.0	2	5/8"
10"	2'-6"	2'-6"	24"	37.5	2	3/4"
12"	2'-9"	2'-9"	24"	44.0	4	3/4"

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



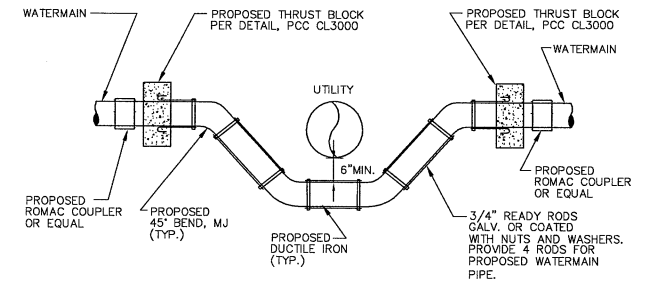
SIZE	LENGTH	11 1/4"			22 1/2"			45"			90"		
		WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.	WIDTH	DEPTH	VOL.
6"	12"	1'-0"	1'-0"	0.63	1'-0"	1'-0"	0.63	1'-6"	1'-6"	1.25	2'-3"	2'-3"	1.88
8"	12"	1'-3"	1'-3"	1.00	1'-3"	1'-3"	1.00	1'-9"	1'-9"	1.75	2'-0"	2'-0"	2.50
10"	12"	1'-6"	1'-6"	1.72	1'-6"	1'-6"	1.72	2'-3"	2'-3"	2.88	3'-0"	2'-6"	4.86
12"	18"	2'-0"	1'-9"	3.48	2'-0"	1'-9"	3.48	2'-9"	2'-6"	5.98	4'-0"	3'-0"	10.00

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



PRV DETAIL

NTS

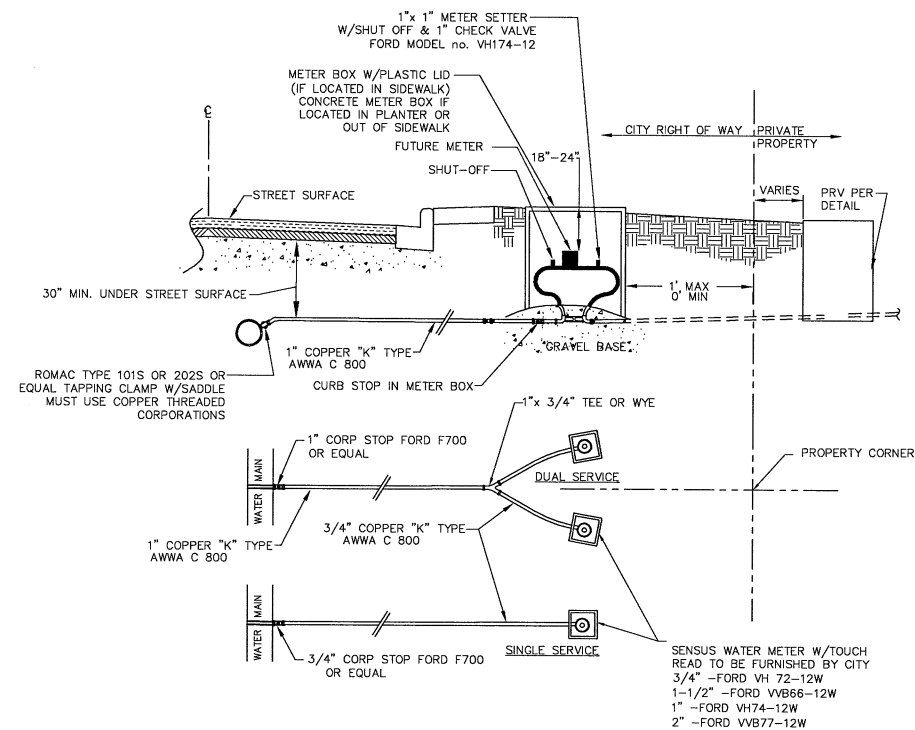


WATERMAIN STOVEPIPE

NTS

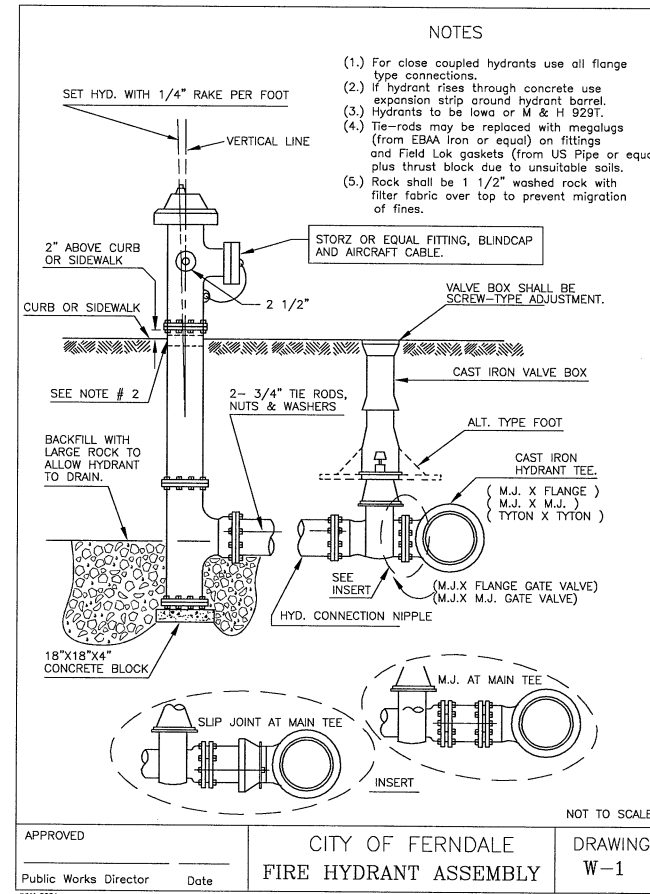
THRUST BLOCKING

NTS



WATER SERVICE CONNECTION DETAIL

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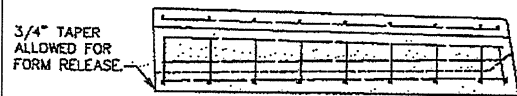
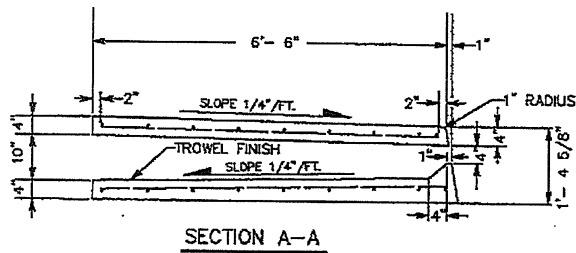
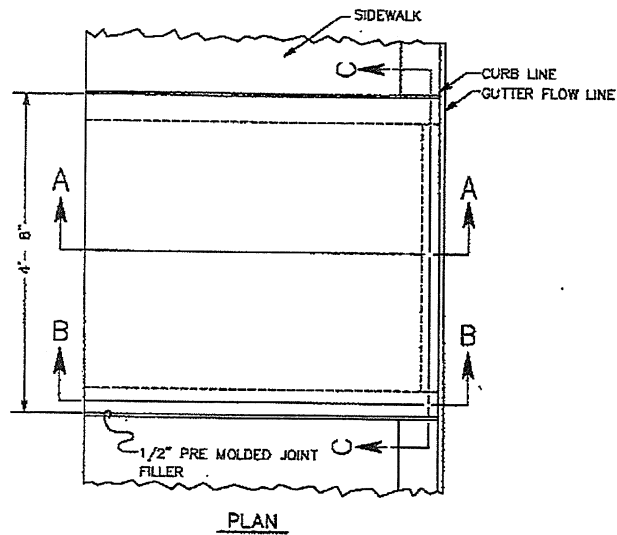


NOTES

- (1.) For close coupled hydrants use all flange type connections.
- (2.) If hydrant rises through concrete use expansion strip around hydrant barrel.
- (3.) Hydrants to be low or M & H 929T.
- (4.) Tie-rods may be replaced with megalugs (from EBAA iron or equal) on fittings and Field Lok gaskets (from US Pipe or equal) plus thrust block due to unsuitable soils.
- (5.) Rock shall be 1 1/2" washed rock with filter fabric over top to prevent migration of fines.

APPROVED	CITY OF FERNDAL FIRE HYDRANT ASSEMBLY	DRAWING W-1
Public Works Director	Date	
JULY 2001		





REBAR PLACEMENT

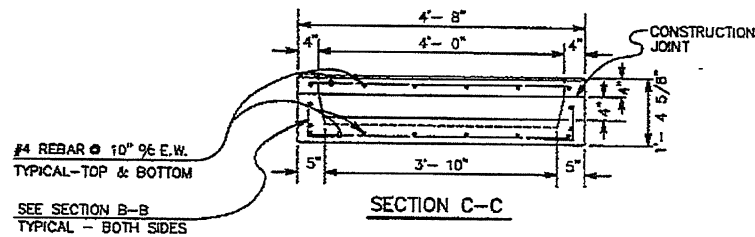
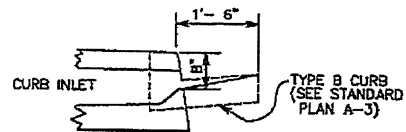
CURB INLET

SPECIAL CURB INLET
TYPE 2

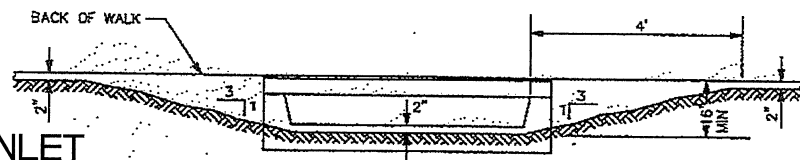
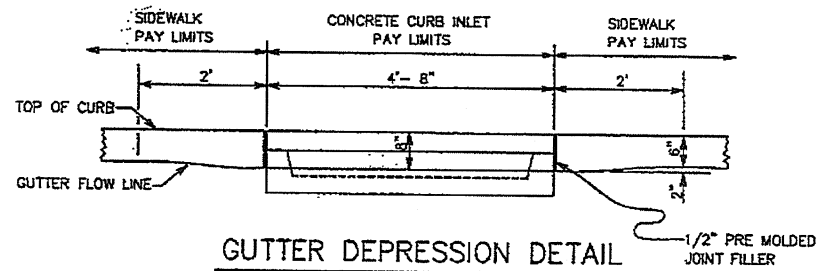
NTS

GENERAL NOTES

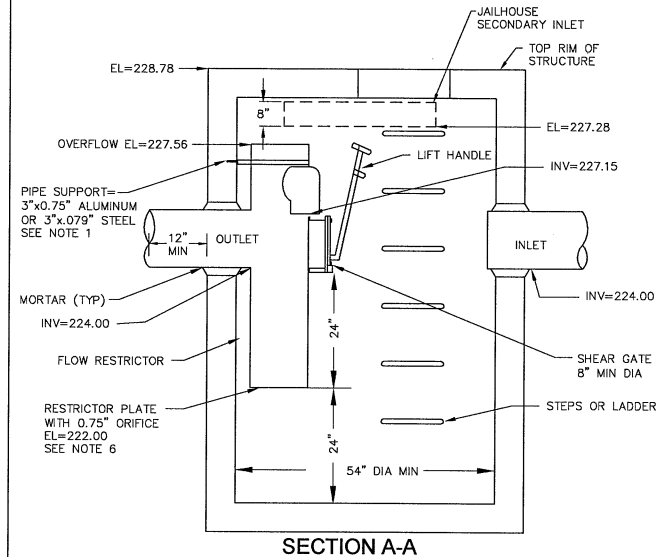
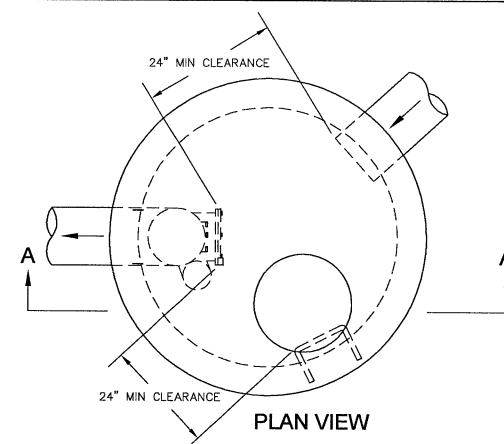
1. CURB INLET SHALL BE CONSTRUCTED IN ACCORDANCE WITH ASTM C 478 (AASHTO M 198) & ASTM C 690 UNLESS OTHERWISE SHOWN ON PLANS OR NOTED IN THE PROJECT SPECIAL PROVISIONS.
2. TOP SURFACE TO BE BROOM FINISHED.
3. ALL EXTERNAL EDGES NOT LABELED SHALL BE TROWELLED WITH 1/4" RADIUS EDGER.



#4 REBAR @ 10" O.C. E.W.
TYPICAL - TOP & BOTTOM
SEE SECTION B-B
TYPICAL - BOTH SIDES



OUTLET SWALE GRADING DETAIL

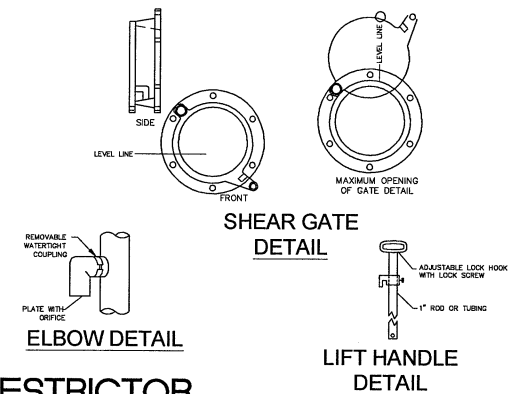


CATCH BASIN TYPE 2 WITH FLOW RESTRICTOR

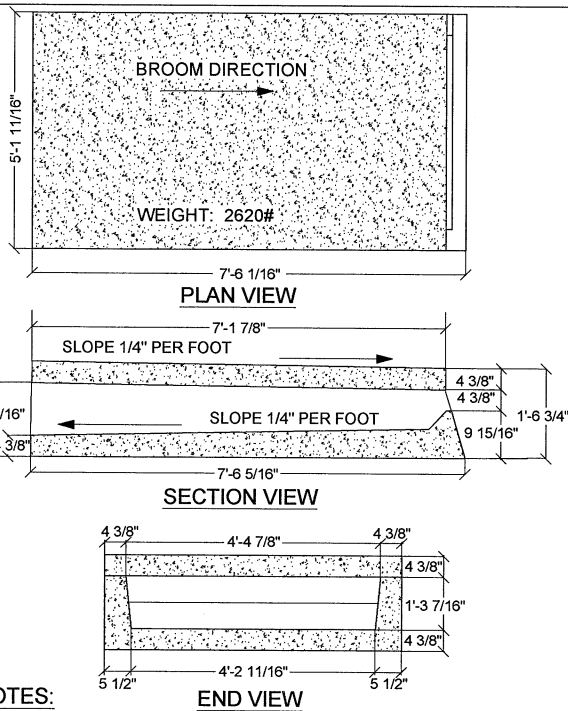
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NOTES:

1. PIPE SUPPORTS AND FLOW RESTRICTOR SHALL BE CONSTRUCTED OF THE SAME MATERIAL AND BE ANCHORED AT A MAXIMUM SPACING OF 36". ATTACH PIPE SUPPORTS TO MANHOLE WITH 5/8" STAINLESS STEEL EXPANSION BOLTS OR EMBED SUPPORTS INTO MANHOLE WALL 2".
2. THE VERTICAL RISER STEM OF THE FLOW RESTRICTOR SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE WITH A MINIMUM DIAMETER OF 8".
3. THE FLOW RESTRICTOR SHALL BE FABRICATED FROM ONE OF THE FOLLOWING MATERIALS:
0.60" CORRUGATED ALUMINUM ALLOY DRAIN PIPE
0.64" CORRUGATED GALVANIZED STEEL DRAIN PIPE WITH TREATMENT 1.
0.64" CORRUGATED ALUMINIZED STEEL DRAIN PIPE
0.60" ALUMINUM ALLOY FLAT SHEET, IN ACCORDANCE WITH ASTM B 209, 5052 H32 OR EPS HIGH DENSITY POLYETHYLENE STORM SEWER PIPE.
4. FRAME AND LADDER OR STEPS ARE TO BE OFFSET SO THAT: SHEAR GATE IS VISIBLE FROM THE TOP; CLIMB-DOWN SPACE IS CLEAR OF RISER AND GATE; FRAME IS CLEAR OF CURB.
5. MULTI-ORIFICE ELBOWS MAY BE LOCATED AS SHOWN OR ALL ON ONE SIDE OF RISER TO ASSURE LADDER CLEARANCE. SIZE OF ELBOWS AND PLACEMENT TO BE SPECIFIED IN THE CONTRACT.
6. RESTRICTOR PLATE WITH ORIFICE AS SPECIFIED IN THE CONTRACT. OPENING IS TO BE CUT ROUND AND SMOOTH.
7. SHEAR GATE SHALL BE MADE OF ALUMINUM ALLOY IN ACCORDANCE WITH ASTM B 26 AND ASTM B 275, DESIGNATION ZG32A OR CAST IRON IN ACCORDANCE WITH ASTM A 48, CLASS 30B. LIFT HANDLE SHALL BE MADE OF A SIMILAR METAL TO THE GATE (TO PREVENT GALVANIC CORROSION). IT MAY BE OF SOLID ROD OR HOLLOW TUBING WITH ADJUSTABLE HOOK AS REQUIRED. MATING SURFACES OF LID AND BODY SHALL BE MACHINED FOR PROPER FIT. ALL SHEAR GATE BOLTS SHALL BE STAINLESS STEEL.
8. SHEAR GATE MAXIMUM OPENING SHALL BE CONTROLLED BY LIMITED HINGE MOVEMENT, STOP TAB OR SOME OTHER DEVICE.
9. ALTERNATE SHEAR GATE DESIGNS ARE ACCEPTABLE, IF MATERIAL SPECIFICATIONS ARE MET AND FLANGE BOLT PATTERN MATCHES.



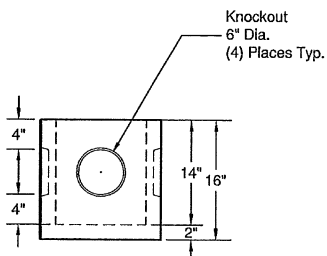
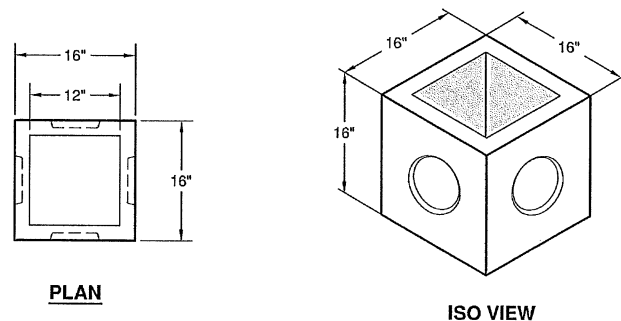
ELBOW DETAIL



- NOTES:**
1. REINFORCEMENT.
#4 REBAR @ 10" O.C. E.W.

SPECIAL CURB INLET TYPE 2

NTS



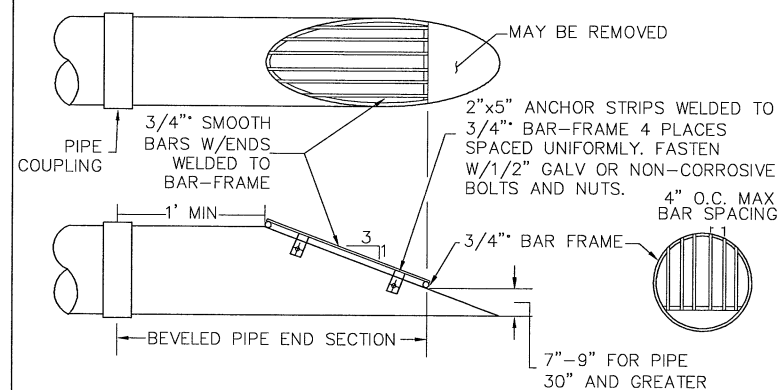
DRIVEWAY CATCH BASIN

NTS

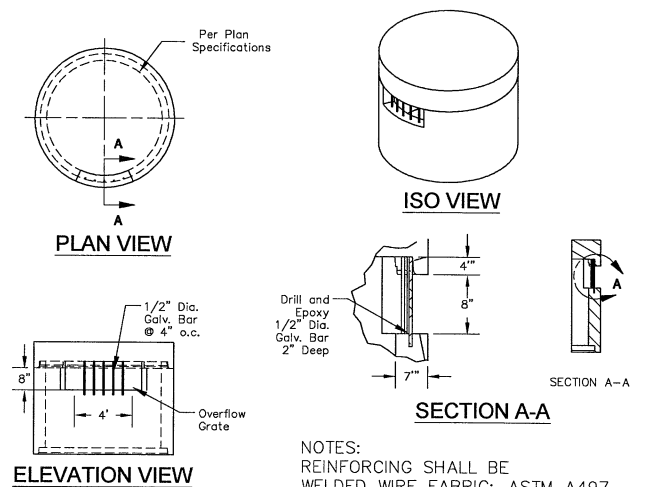
WEIGHT:
BASE: 200 lbs
CONCRETE:
F_c = 4,000 psi @ 28 Days
PIPE PENETRATIONS:
Standard Knockouts (4)

NOTES:

1. CMP OR LCPE PIPE END-SECTION SHOWN
2. ALL STEEL PARTS MUST BE GALVANIZED



NTS



ELEVATION VIEW

- NOTES:**
REINFORCING SHALL BE WELDED WIRE FABRIC: ASTM A497 REBAR ASTM A625 GRADE 60

JAILHOUSE WINDOW INLET

NTS

DESIGNED BY
LP
DRAWN BY
LMC
CHECKED BY
LP

R&E Reichhardt & Ebe
ENGINEERING INC

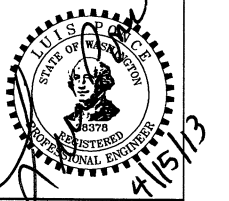
423 Front St., Lynden, WA 98264 (360) 354-3687
813 Metcalf St., Sedro-Woolley, WA 98284 (360) 855-1713

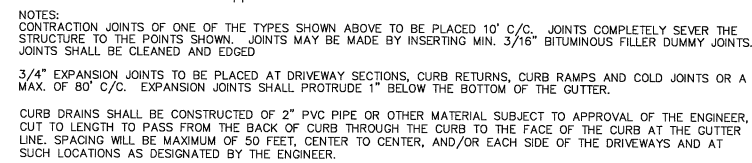
NO. DATE REVISION BY

CITY OF FERNDALE
2095 MAIN ST
FERNDALE, WA 98248

THORNTON STREET
STORM DRAIN DETAIL SHEET

JOB# / DWG
11037 DET
SCALE
H:n/a V:n/a
DATE
4-15-13
SHEET
19 of 21





NTS

