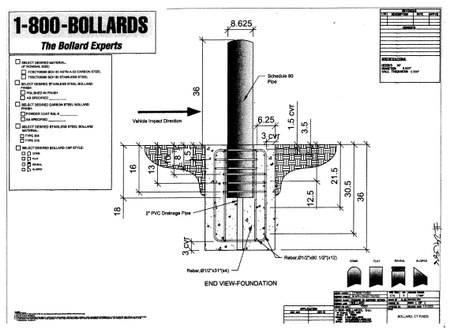
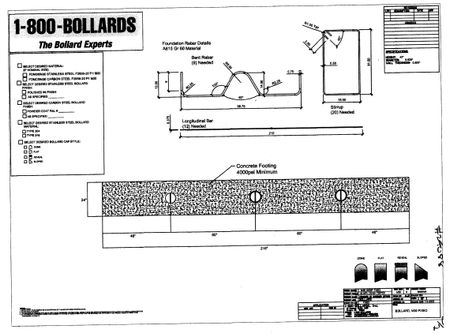
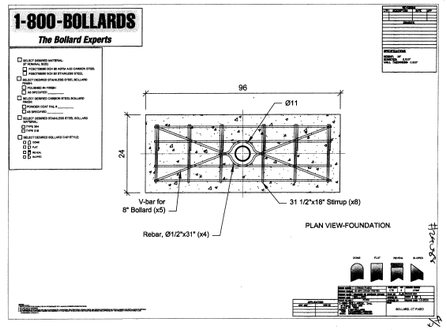
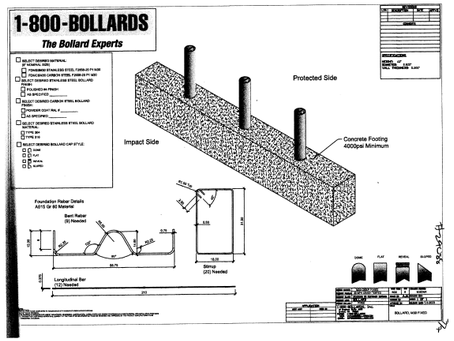
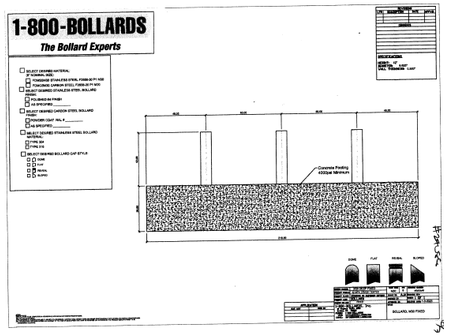
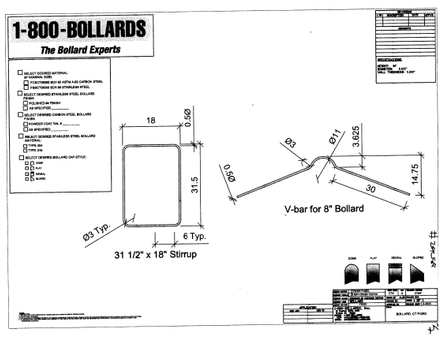


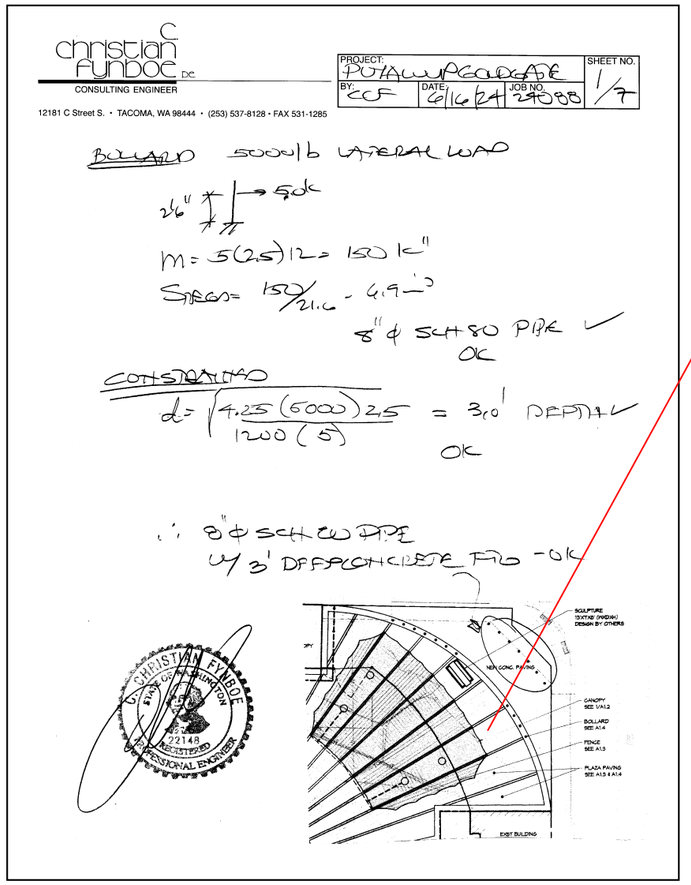











christian fynboe pc
CONSULTING ENGINEER
12181 C Street S. • TACOMA, WA 98444 • (253) 537-8128 • FAX 531-1285

PROJECT: PUYALLUP GOLD GATE
BY: CCF
DATE: 6/16/24
JOB NO. 24088
SHEET NO. 1/7

BOLLARD 5000lb LATERAL LOAD

2'6" → 5.0k

M = 5(2.5)12 = 150 k"

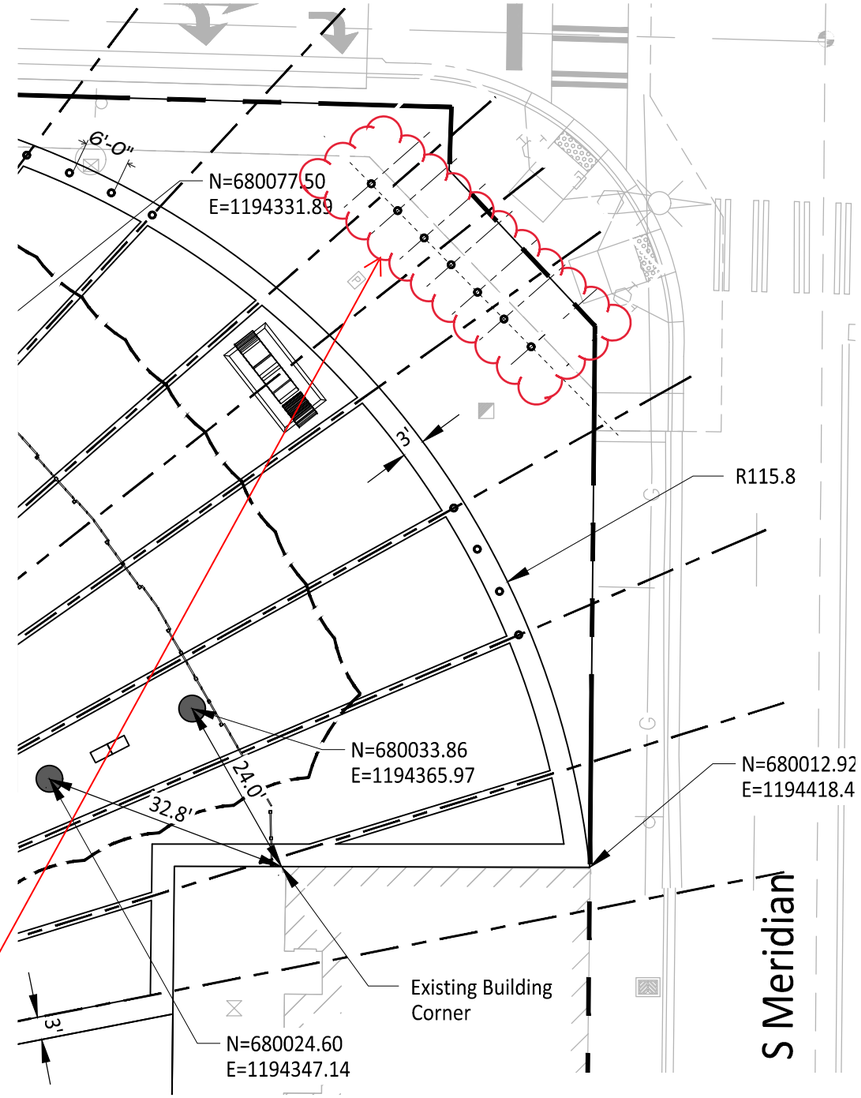
STEEL = 150/21.6 = 6.9 in²

8" ϕ SCH 80 PIPE ✓
OK

CONSTRAINED

$d = \sqrt{\frac{4.25(5000)2.5}{1200(5)}} = 3.0'$ DEPTH ✓
OK

∴ 8" ϕ SCH 80 PIPE
W/ 3' DEEP CONCRETE FTG - OK



Gold Gate Plaza

Bollard Plan and Engineering

1" = 20'-0"

6.17.24 Jeff Brown Architecture

City of Puyallup
Development & Permitting Services
ISSUED PERMIT
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Engineering | Public Works
Fire | Traffic