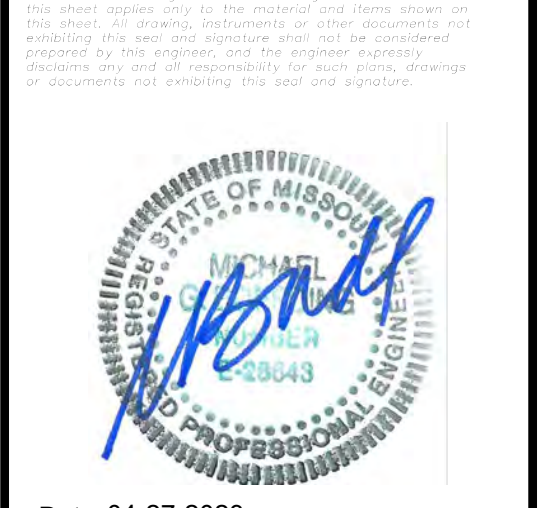


ISSUE	REMARKS/DATE
1	2023-02-28 INITIAL SUBMITTAL
2	2023-04-03 REV PER CITY COMMENTS
3	2023-04-19 REV PER CITY COMMENTS
4	2023-04-27 REV PER CITY COMMENTS

PROJECT TITLE
HARVEST AT HOPEWELL
OF FALLON, MISSOURI

THE **STERLING** CO.
ENGINEERS & SURVEYORS
5055 New Baumgartner Road
St. Louis, Missouri 63129
Ph 314-487-0440 Fax 314-487-8944
www.sterling-eng-survey.com
Corporate Certificate of Authority #001348



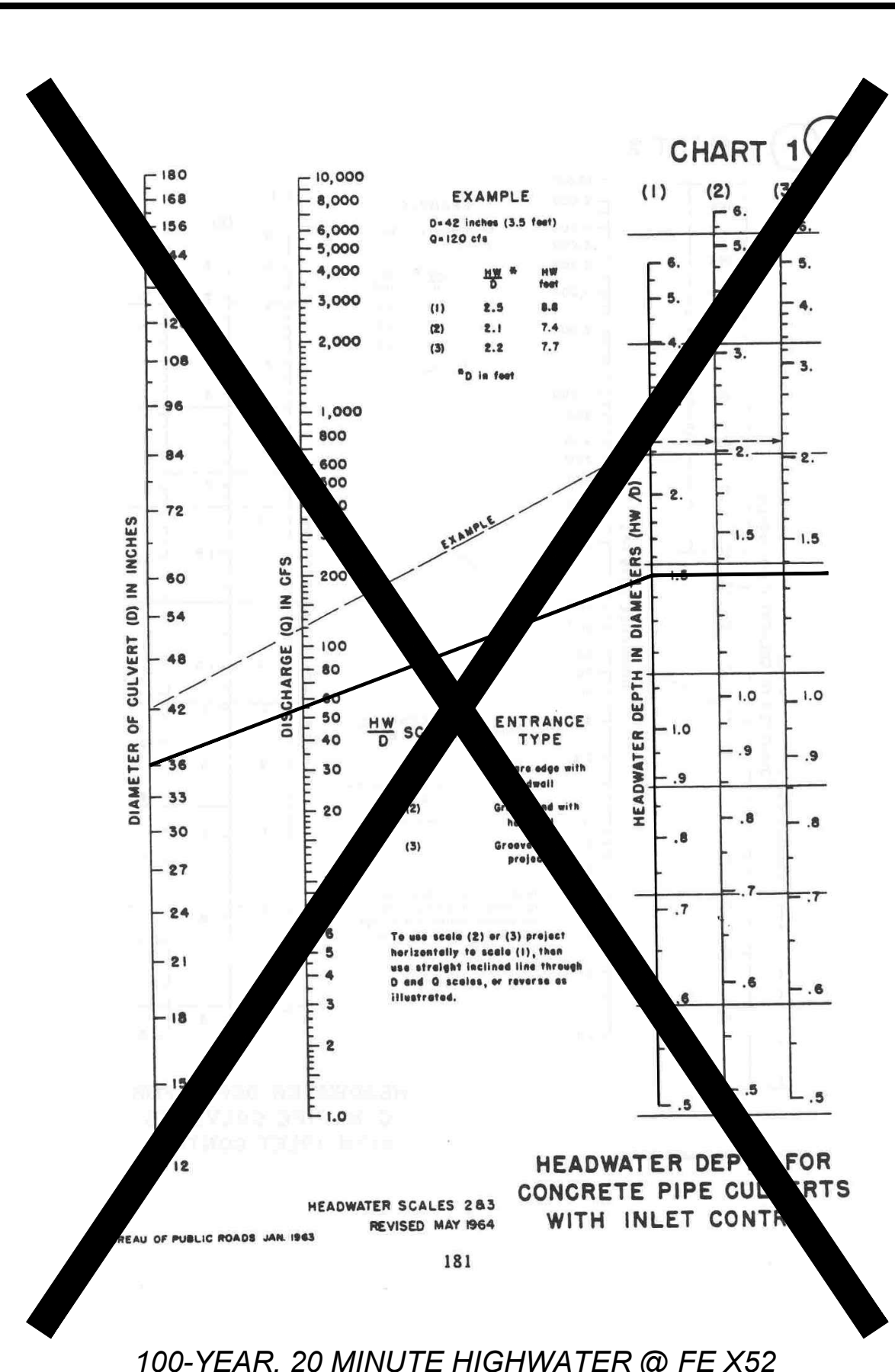
Date: 04-27-2023
Michael G. Boering, PE
License No. MO E-28643
Professional Engineer

HARVEST HOPEWELL, LLC
5091 New Baumgartner Road
St. Louis, Missouri 63129

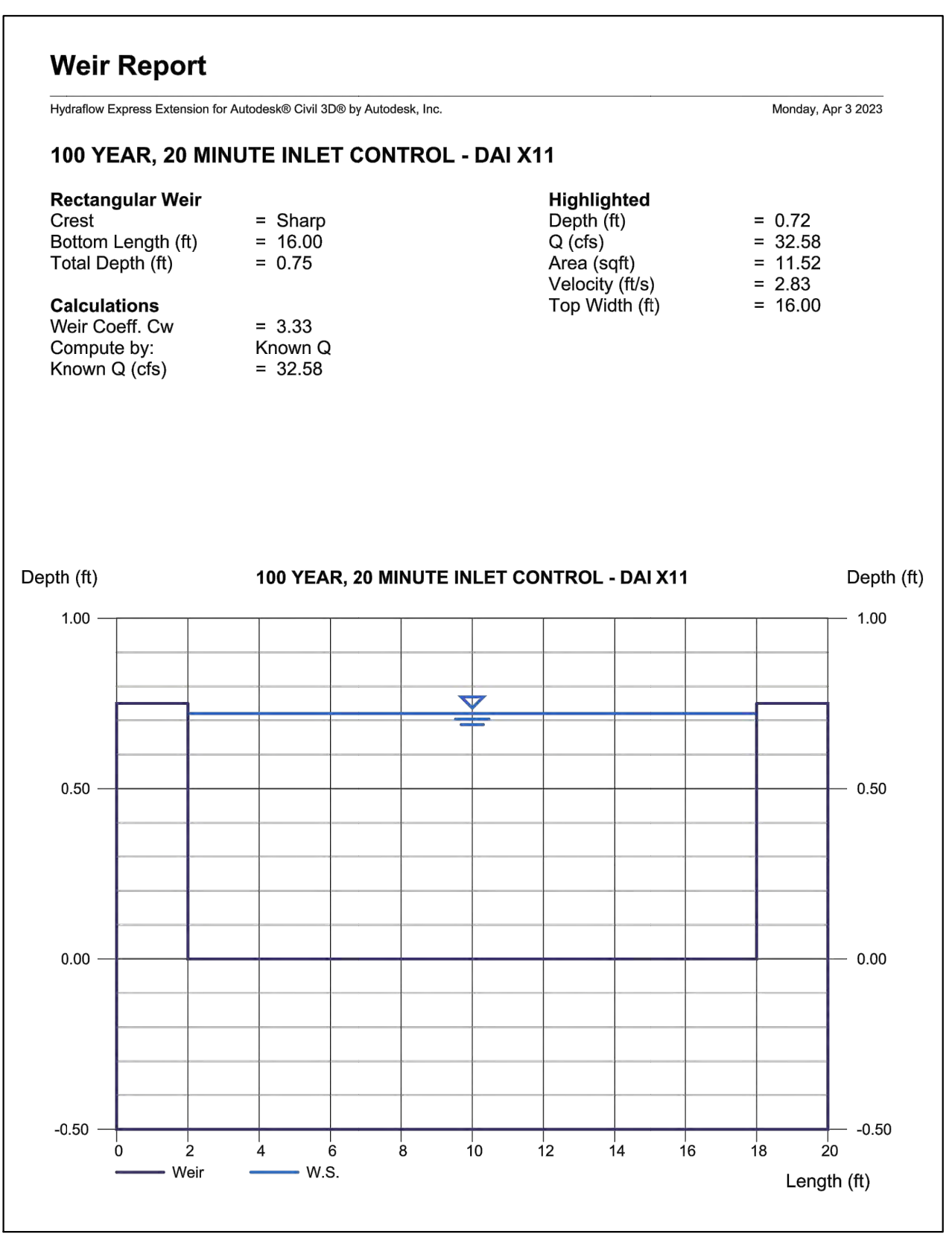
STORM SEWER HYDRAULICS

P+Z No. 21-004994
City No. 21-011444
Date: 04/27/2023
Job No. 20-09-327

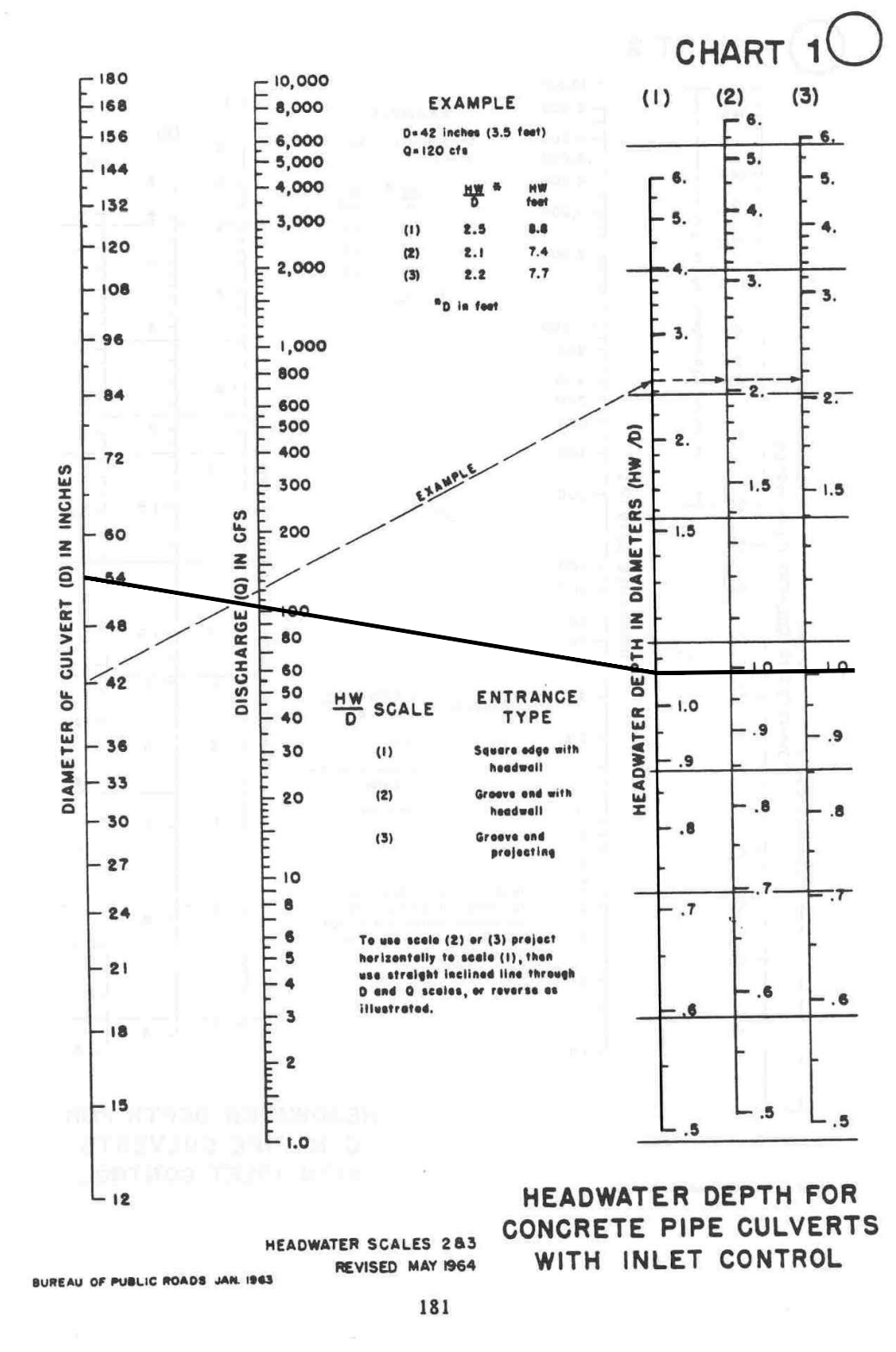
Page No.
7.30
Partial Storm



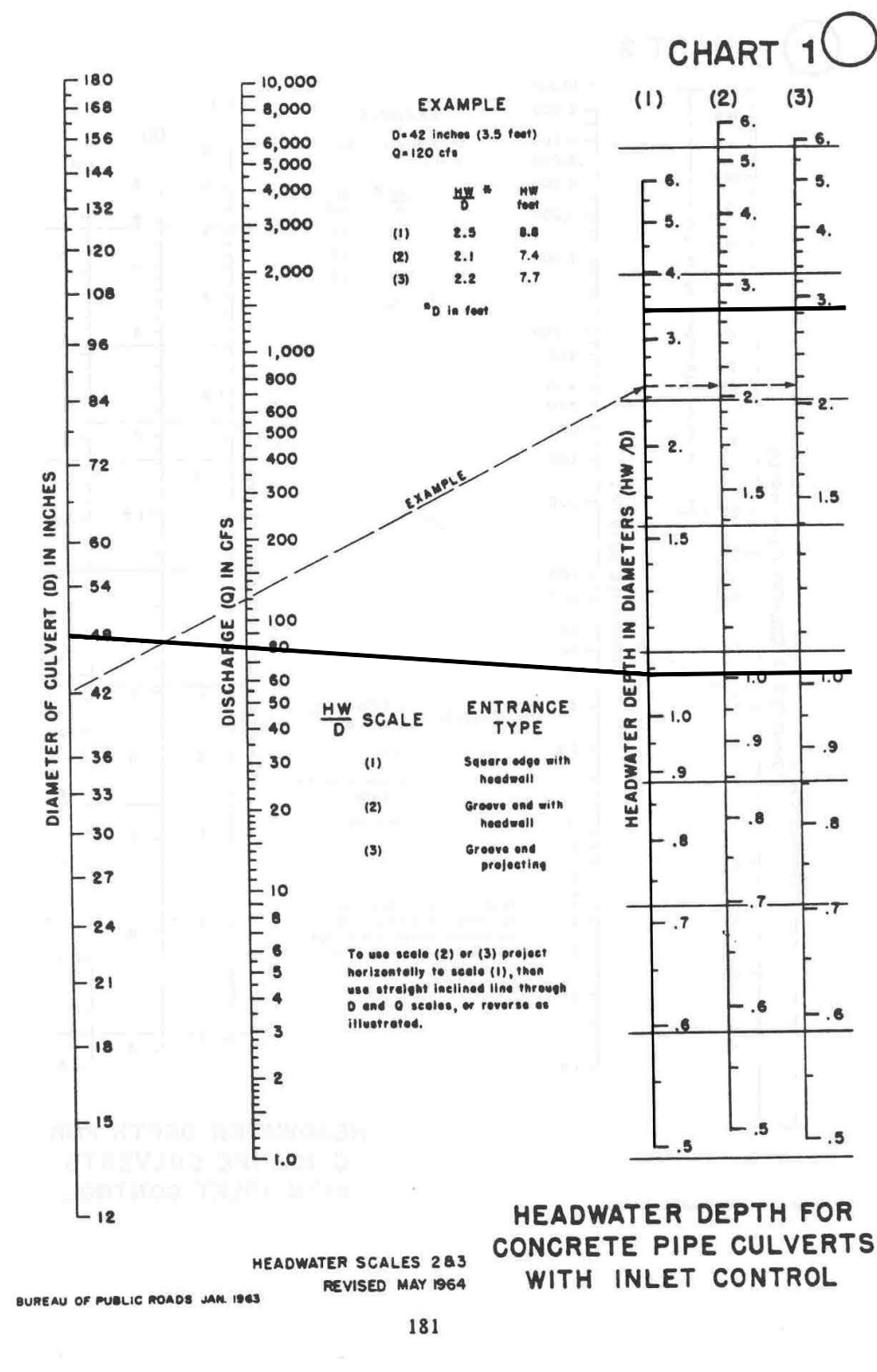
100-YEAR, 20 MINUTE HIGHWATER @ FE X52
100 YEAR Q = 53.88 cfs
HW'D = 3.00 (1.50) = 4.50 + 575.21 = 579.71
NOT PART OF THIS PLAN APPROVAL



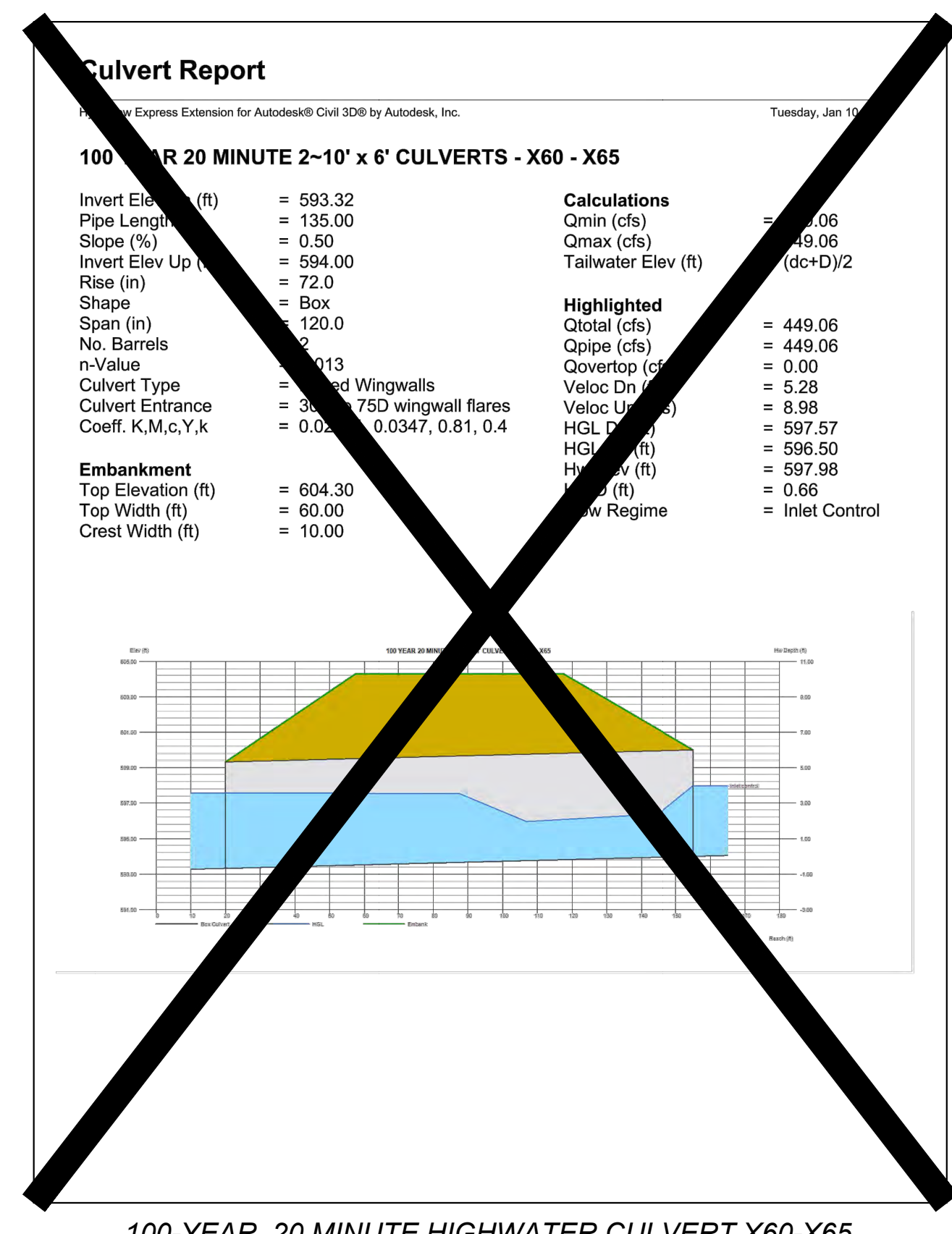
100-YEAR, 20 MINUTE HIGHWATER @ DAI X11
100 YEAR Q = 32.58 cfs
SILL 620.33 + 0.72' = 621.05



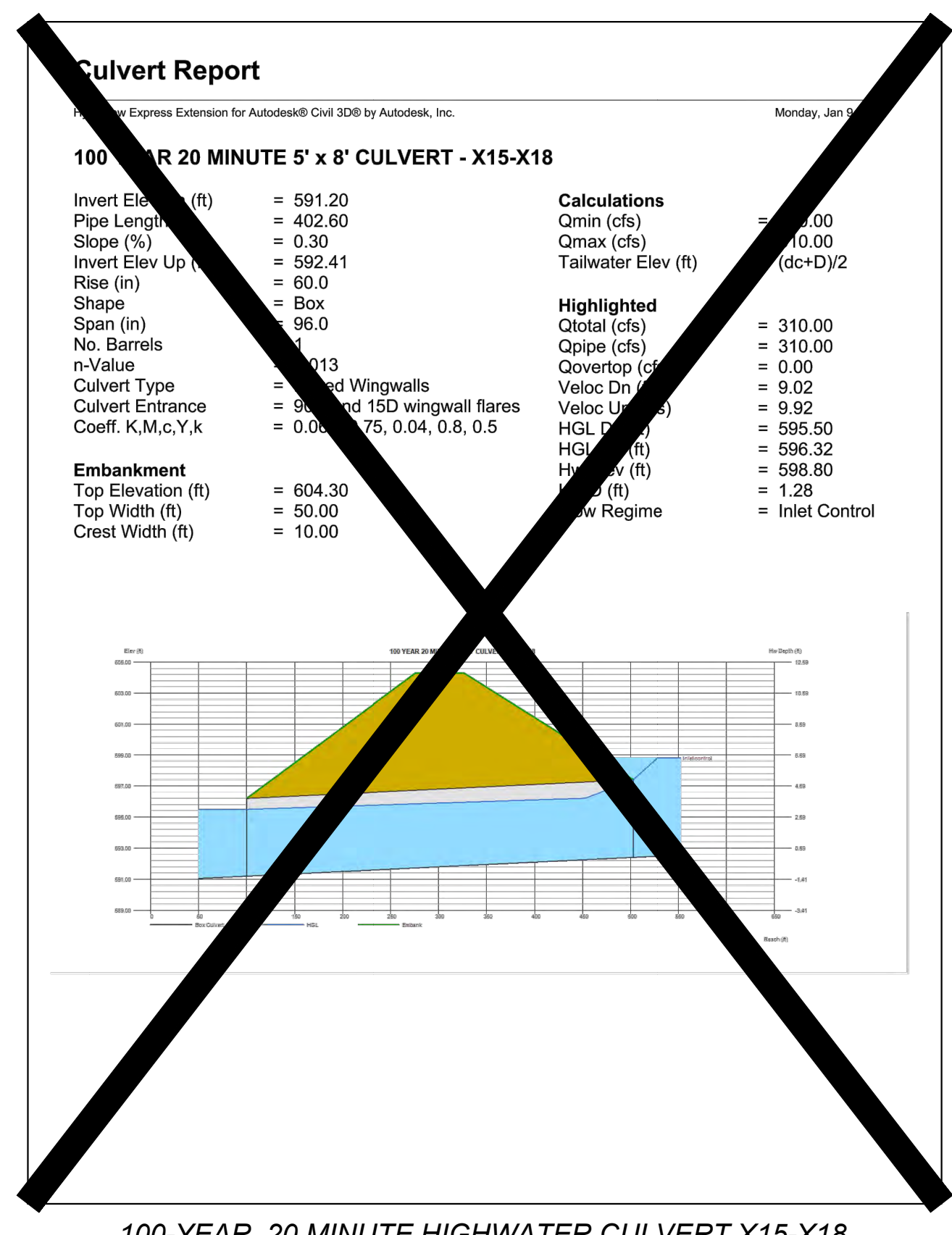
100-YEAR, 20 MINUTE HIGHWATER @ FE X10
100 YEAR Q = 102.48 cfs
HW'D = 4.50 (1.10) = 4.95 + 611.00 = 615.95



100-YEAR, 20 MINUTE HIGHWATER @ FE X9
100 YEAR Q = 79.11 cfs
HW'D = 4.00 (1.1) = 4.40 + 624.70 = 629.10



100-YEAR, 20 MINUTE HIGHWATER CULVERT X60-X65
100 YEAR Q = 449.06 cfs
NOT PART OF THIS PLAN APPROVAL



100-YEAR, 20 MINUTE HIGHWATER CULVERT X15-X18
100 YEAR Q = 310.0 cfs
NOT PART OF THIS PLAN APPROVAL

Drawing name: V:\2009327 Highway N Assemblage\Drawings\Engineering\Improvements\327 MP Storm.dwg - Plotted on: Apr 27, 2023 - 9:00am - Plotted by: jburkhardt