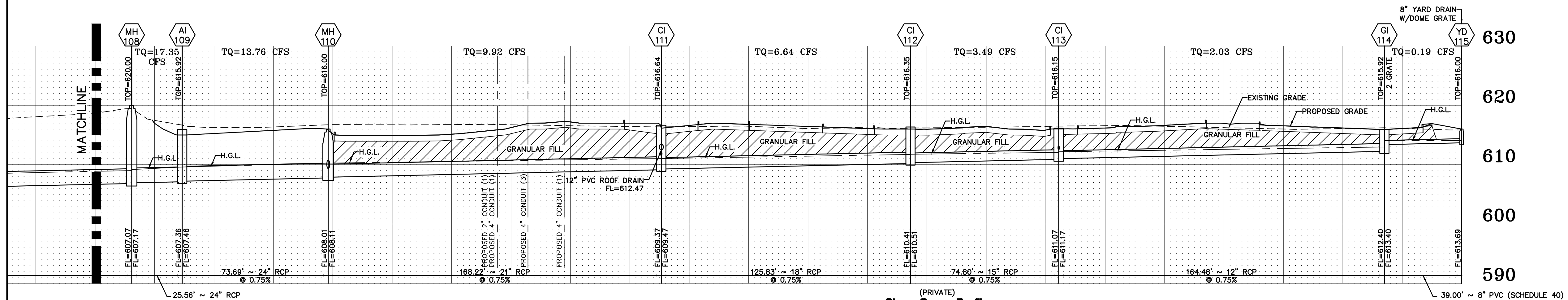


(PRIVATE)
Storm Sewer Profile
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'
* STORM SEWERS MAY ALSO BE ADS N-12 OR EQUAL

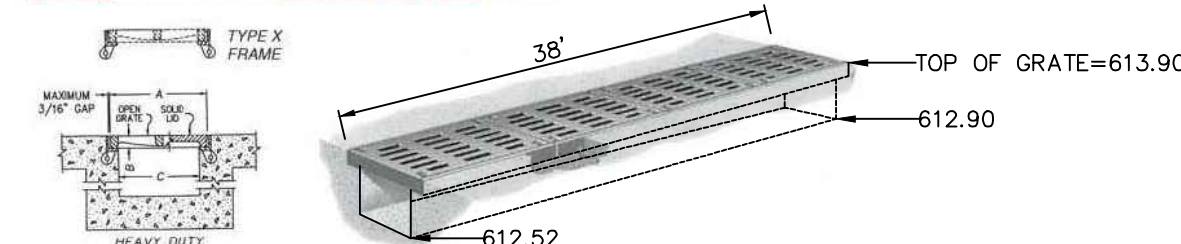


(PRIVATE)
Storm Sewer Profile
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'
* STORM SEWERS MAY ALSO BE ADS N-12 OR EQUAL

R-4990 and R-4999 Series

Heavy Duty Trench

Materials: All frames and grates/lids are furnished standard in Gray Iron, Class 35-B for heavy-duty use. For extra heavy-duty use or superior durability requirements, see our **Alumet** and **Hot Grating** Series and our **R-4993 & R-4994** Series.

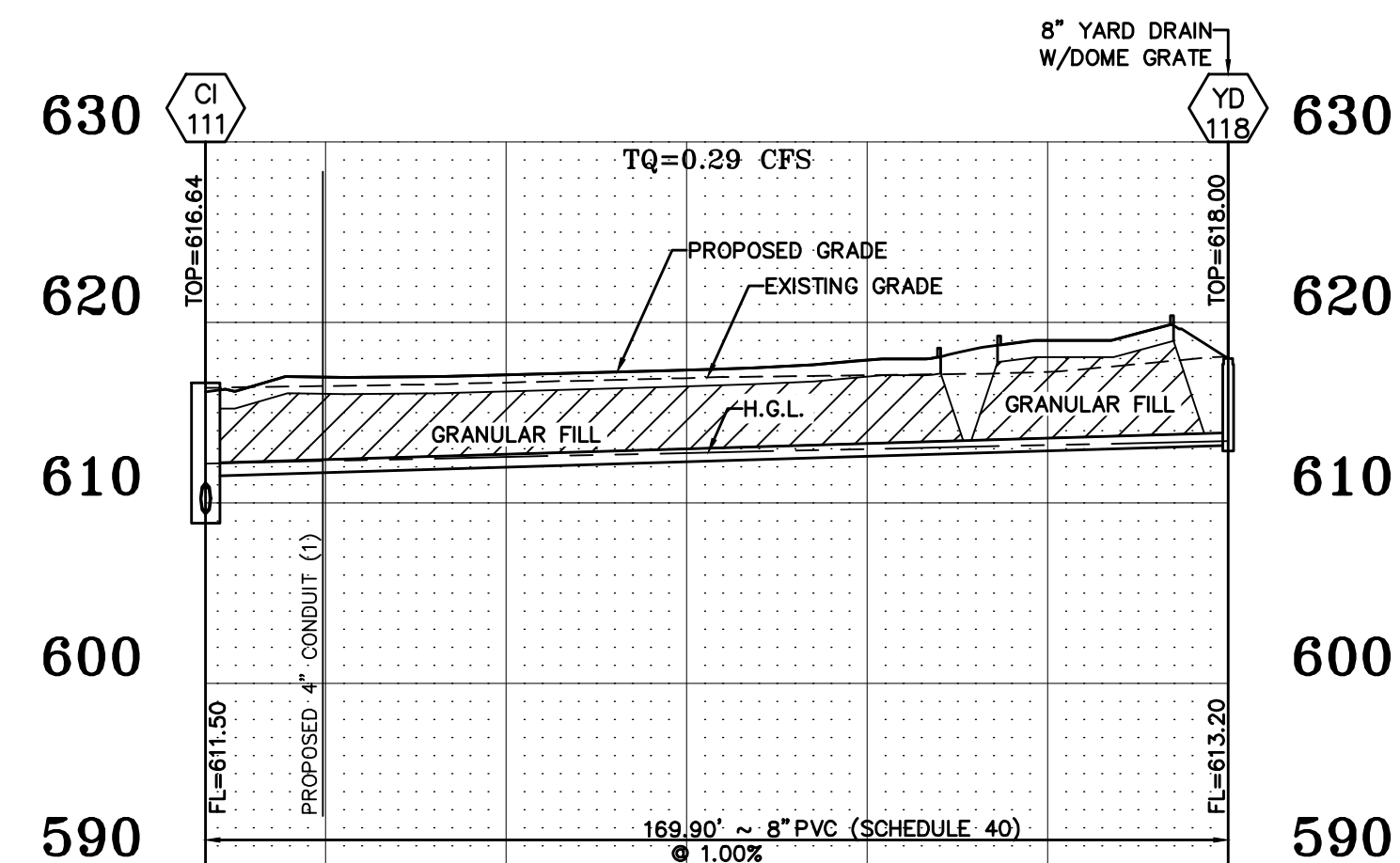
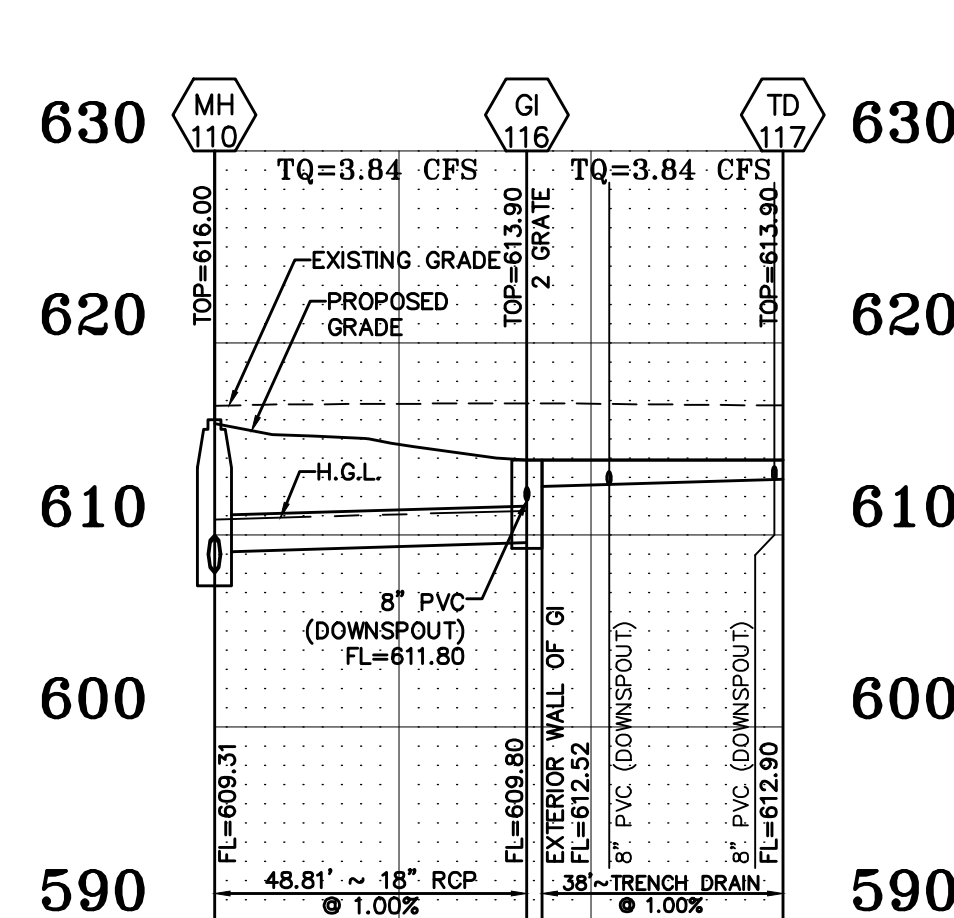


General submittal shows may not apply to all designs. Use and fit details, girders, dimensions, and seating details vary on different areas and styles. If your project has design restrictions, contact your sales representative or product engineering.

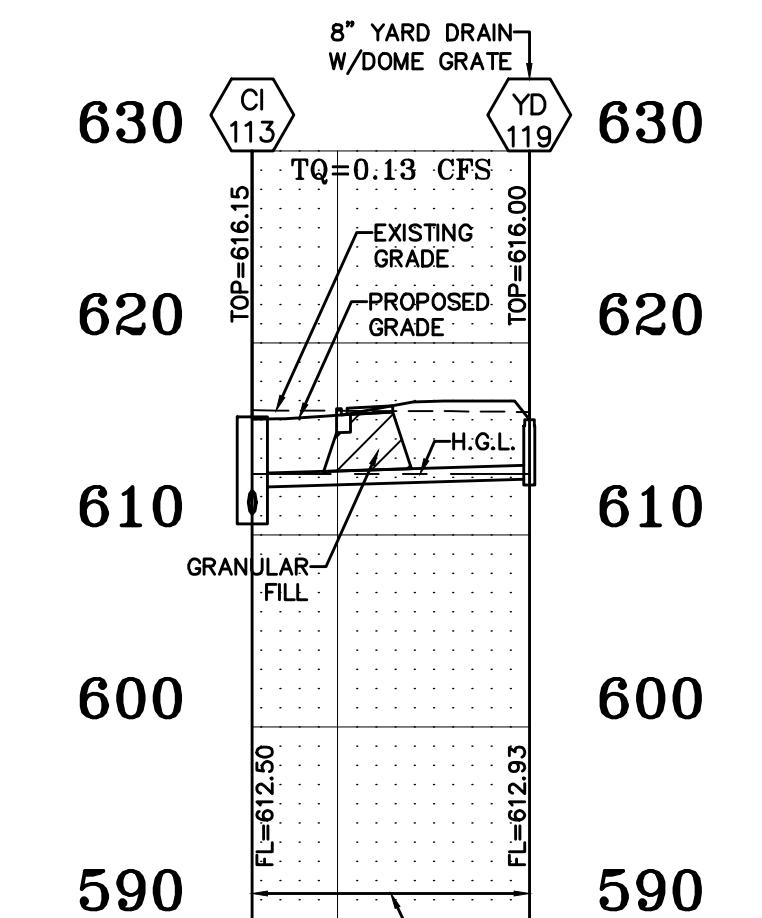
Illustrating Type C bolted trench. Bolted trench sections are furnished in 24" standard lengths. When bolted trench is furnished, they are shipped assembled - 47 7/8" T&E should be used for disassembly during installation. When removing covers, do not mix or rotate 180 degrees or both holes may lose alignment and improper bearing may occur.

Un-bolted Catalog No.	Bolted Catalog No.	A	B	C	Type A	Type C	Type D	Type E	Type P	Type Q
R-4990-AX	R-4999-AX	8	1-1/2	6	x	x	x	x	x	x
R-4990-BX	R-4999-BX	10	1-1/2	8	x	x	x	x	x	x
R-4990-CX	R-4999-CX	12	1-1/2	10	x	x	x	x	x	x
R-4990-DX	R-4999-DX	14	1-1/2	12	x	x	x	x	x	x
R-4990-EX	R-4999-EX	17	1-1/2	15	x	x	x	x	x	x
R-4990-FX	R-4999-FX	20	1-1/2	18	x	x	x	x	x	x

NEENAH HEAVY DUTY TRENCH DRAIN DETAIL
NOT TO SCALE



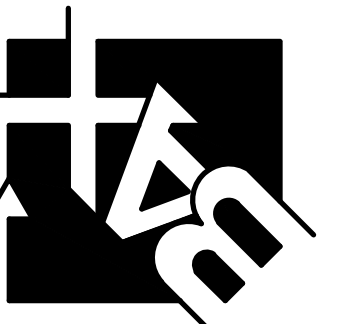
(PRIVATE)
Storm Sewer Profile
HORIZONTAL SCALE: 1" = 30'
VERTICAL SCALE: 1" = 10'
* STORM SEWERS MAY ALSO BE ADS N-12 OR EQUAL



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LARRY D. WALKER
Professional Engineer
No. 2007020343
3/16/20

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REVISIONS

1-21-20	DCSD COMMENTS
1-31-20	DCSD/PWS/FIRE COMMENTS
2-11-20	CITY/FIRE COMMENTS
2-12-20	PWS COMMENTS
2-20-20	MODOT COMMENTS
3-16-20	WATER TAP REVISION

Developer / Owner:
Duke Property Management L.L.C.
10403 International Plaza
St. Ann, Missouri 63074
(314) 426-4020

P+Z No. #19-003530
Approval Date 11-07-19

City No. #

Page No.

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STORM SEWER PROFILES