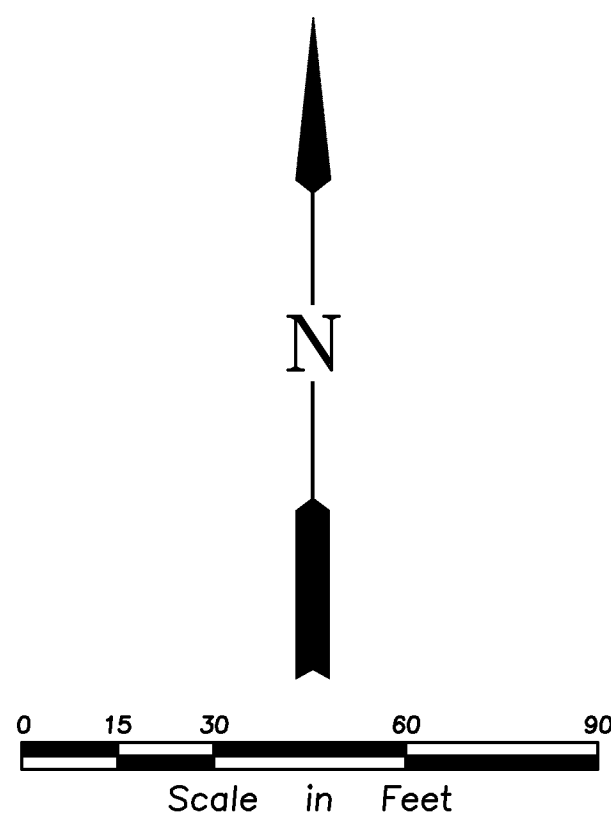




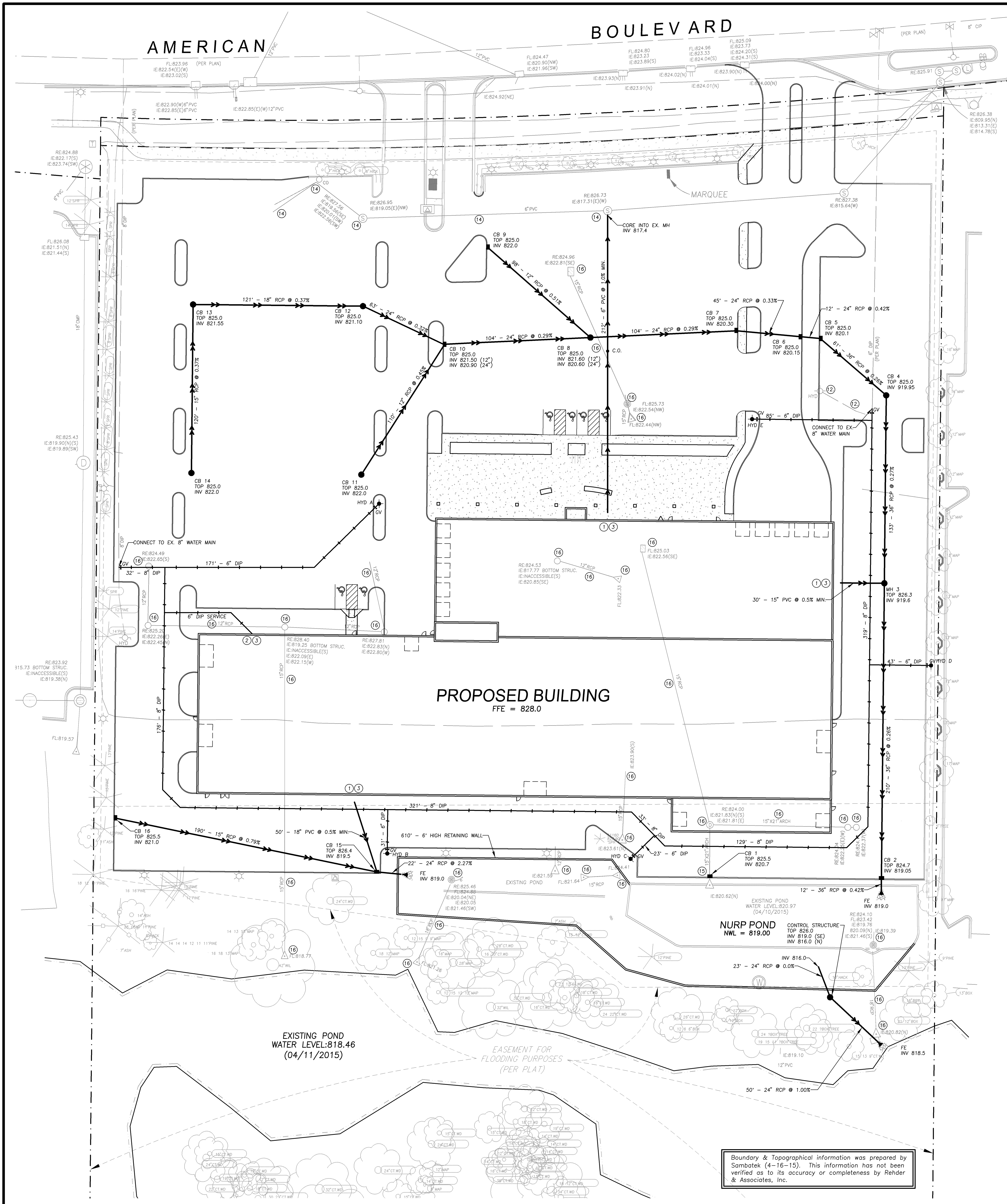
SHEET NUMBER

C1

Rehder & Associates, Inc.
Civil Engineers, Planners and Land Surveyors
10 Federal Drive, Suite 110 • Eagan, Minnesota 55121
• Phone: 651-432-9561 • Fax: 651-432-9797 • email: info@rehder.com

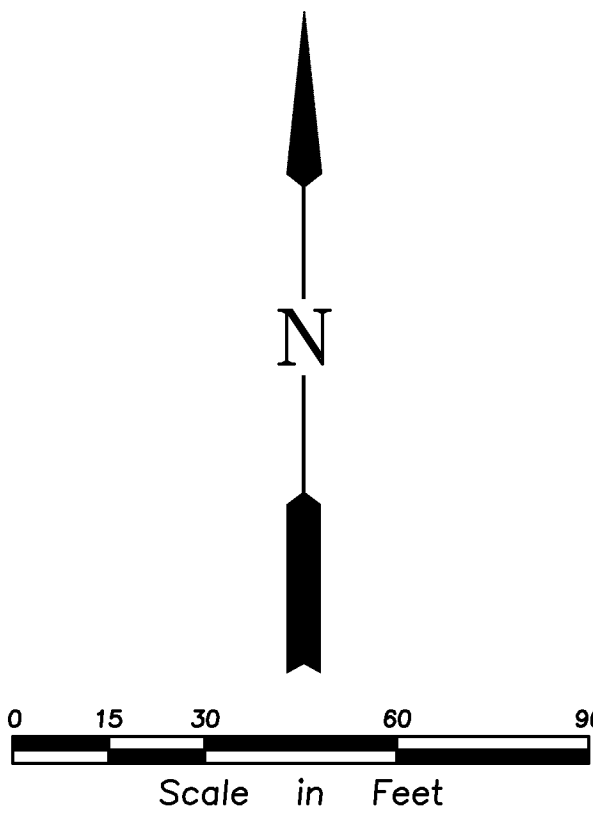
I hereby certify that this plan was prepared by _____ Date _____
me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Missouri.
PRELIMINARY
Name _____ Ren _____ No _____

[illegible]



- UTILITY NOTES
- 1 - Bring sewer services all the way into the proposed building to accommodate City inspection and testing.
 - 2 - Bring water main all the way into the proposed building (i.e. up to meters and/or fire service equipment) to accommodate City inspection and testing.
 - 3 - Verify all service locations and inverts with mechanical engineer before construction.
 - 4 - All watermain to have a minimum of 8' and maximum of 10' of cover.
 - 5 - Taps of live water mains to be done by City forces; however, they shall be paid for and coordinated by the Contractor.
 - 6 - Combination Fire and Domestic services must terminate with a thread on flange or an MJ to flange adapter.
 - 7 - There shall be at least a 10-foot horizontal separation between water and sewer lines.
 - 8 - Water mains crossing storm or sanitary sewers shall have a minimum of 18-inch vertical separation.
 - 9 - Wrap DIP water main with 8 mil minimum poly.
 - 10 - All water main pipe 12" in diameter and smaller shall be Class 52 DIP.
 - 11 - Coordinate tap and water valve cut in with City of Bloomington Utilities.
 - 12 - Remove existing water main and hydrant.
 - 13 - PVC Pipe connections into all concrete structures shall be made with water tight materials, utilizing an A-Lok or Waterstop gasket or boot, cast-in-place rubber boot, or approved equal. Where the alignment precludes the use of the above approved watertight methods, Conseal 231 waterstop sealant, or approved equal will only be allowed as approved by the Engineer.
 - 14 - Remove existing manhole, cleanouts, sanitary sewer pipe to the west and bulkhead ex. manhole.
 - 15 - Construct CB over existing storm sewer pipe and remove remaining pipe to north.
 - 16 - Remove existing storm sewer manholes, catch basin, flared end sections & pipe.
 - 17 - Prior to issuance of the Certificate of Occupancy, the developer/contractor must submit electronic utility as-builts to the Public Works Department. Contact Jen Desrué (952-563-4862) for requirements.

- LEGEND
- PROPOSED MANHOLE/CATCH BASIN
 - PROPOSED CATCH BASIN
 - PROPOSED HYDRANT
 - PROPOSED GATE VALVE
 - PROPOSED FLARED END
 - PROPOSED STORM SEWER
 - PROPOSED SANITARY SEWER
 - PROPOSED WATERMAIN
 - PROPOSED CONCRETE
 - PROPOSED STD. DUTY BITUMINOUS
 - PROPOSED HEAVY DUTY BITUMINOUS
 - BOUNDARY/ROW/BLOCK LINE
 - EASEMENT
 - BUILDING/PARKING SETBACK LINE



Boundary & Topographical information was prepared by Sambatek (4-16-15). This information has not been verified as to its accuracy or completeness by Rehder & Associates, Inc.

PL201600063
PL2016-63

Rehder & Associates, Inc.
Civil Engineers, Planners and Land Surveyors
3440 Federal Drive, Suite 110 • Eden Prairie, Minnesota 55349
952.933.5501 • Fax: 952.933.5502 • email: info@rehder.com
PROJECT NO.: 161-0348.070 DRAWING FILE: 0348070.DWG

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
PRELIMINARY
Date: _____ Reg. No. _____
Jen Desrué

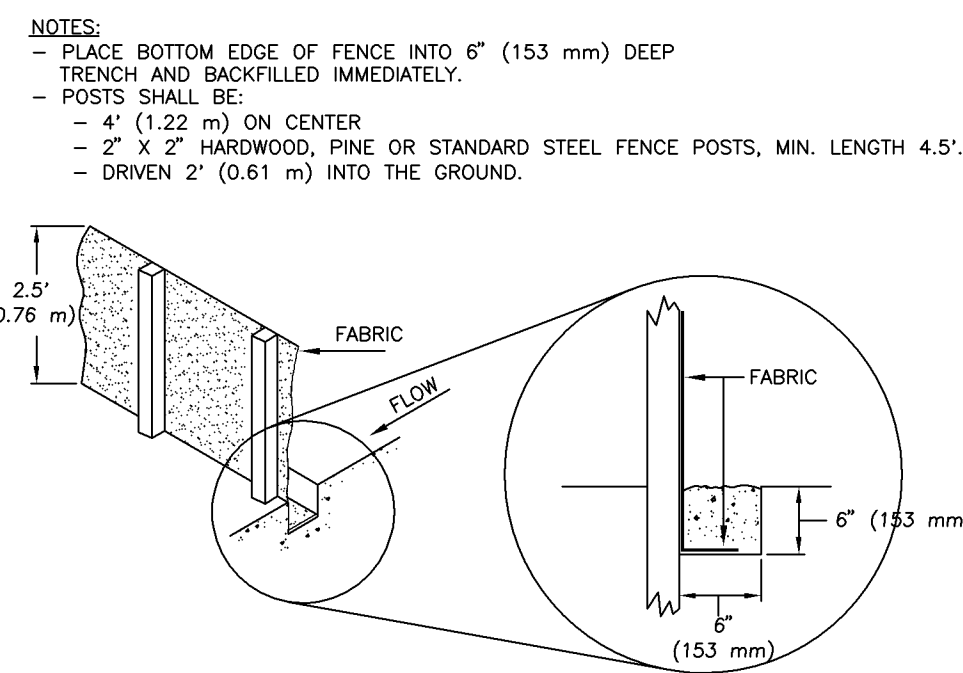
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CITY SUBMITTAL
4-30-16

UTILITY PLAN
WALSER TOYOTA
CITY OF BLOOMINGTON

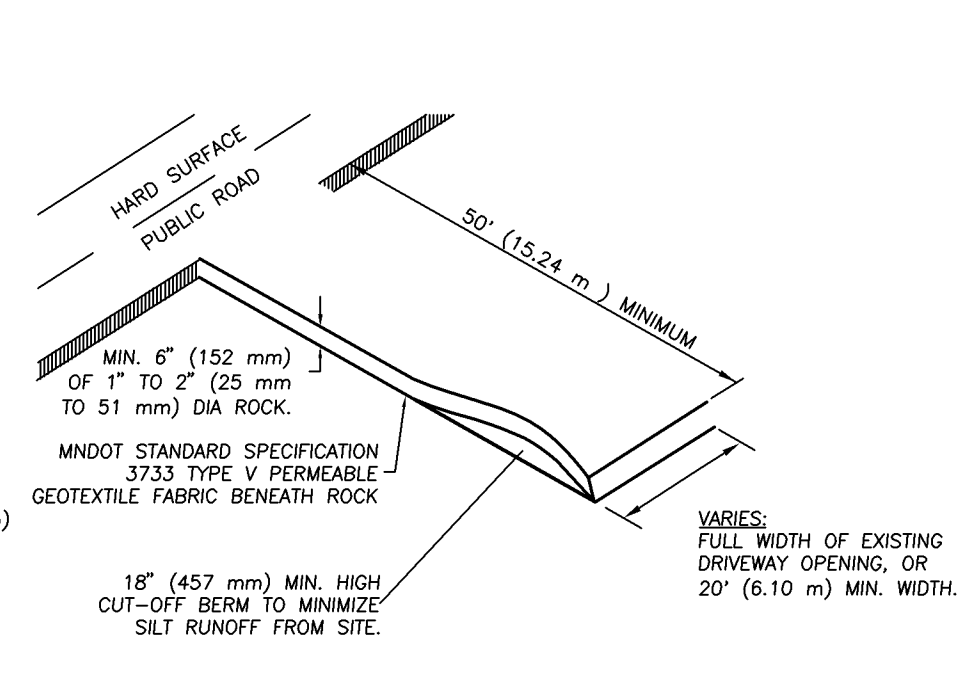
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PL2016-63

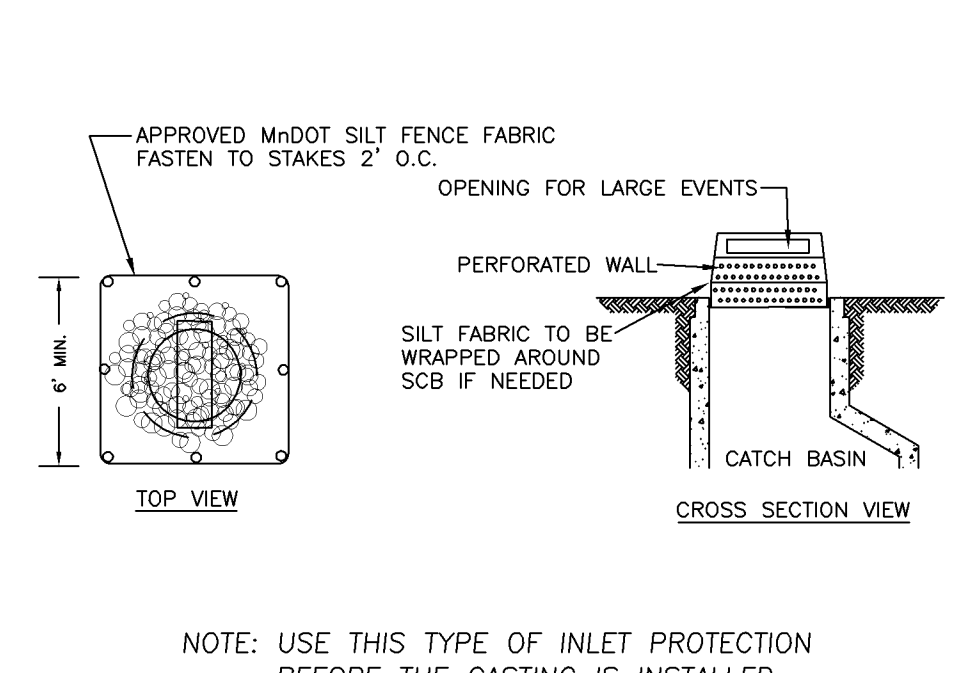
Rehder & Associates, Inc.
Civil Engineers, Planners and Land Surveyors
3440 Federal Drive, Suite 110 • Eden Prairie, Minnesota 55342
612.432.5501 • Fax 612.432.9197 • email: info@rehder.com
PROJECT NO.: 161-0348.070 DRAWING FILE: 0348070.DWG



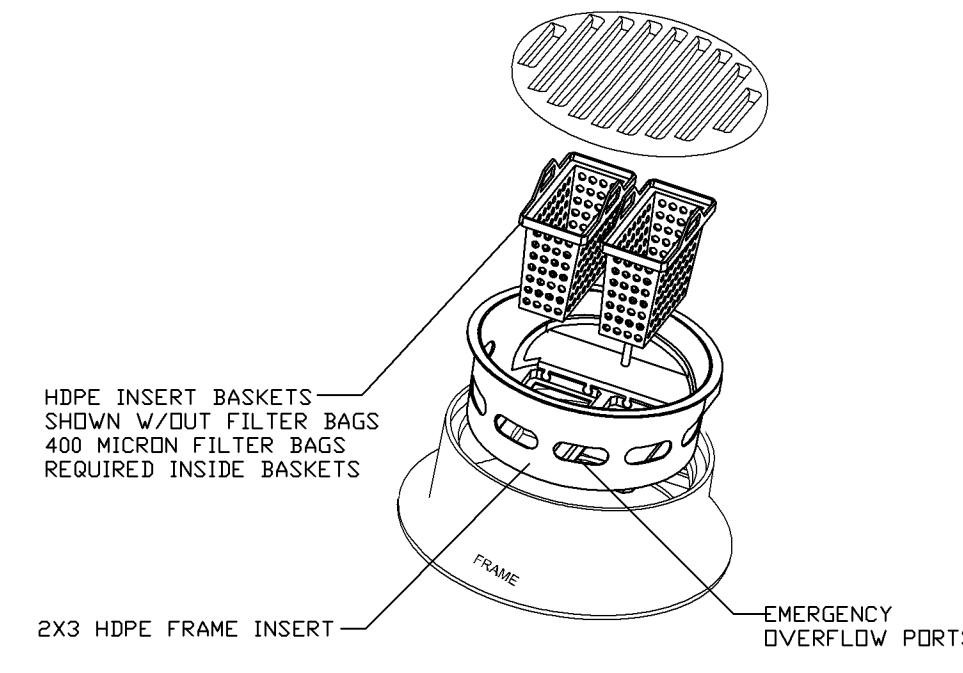
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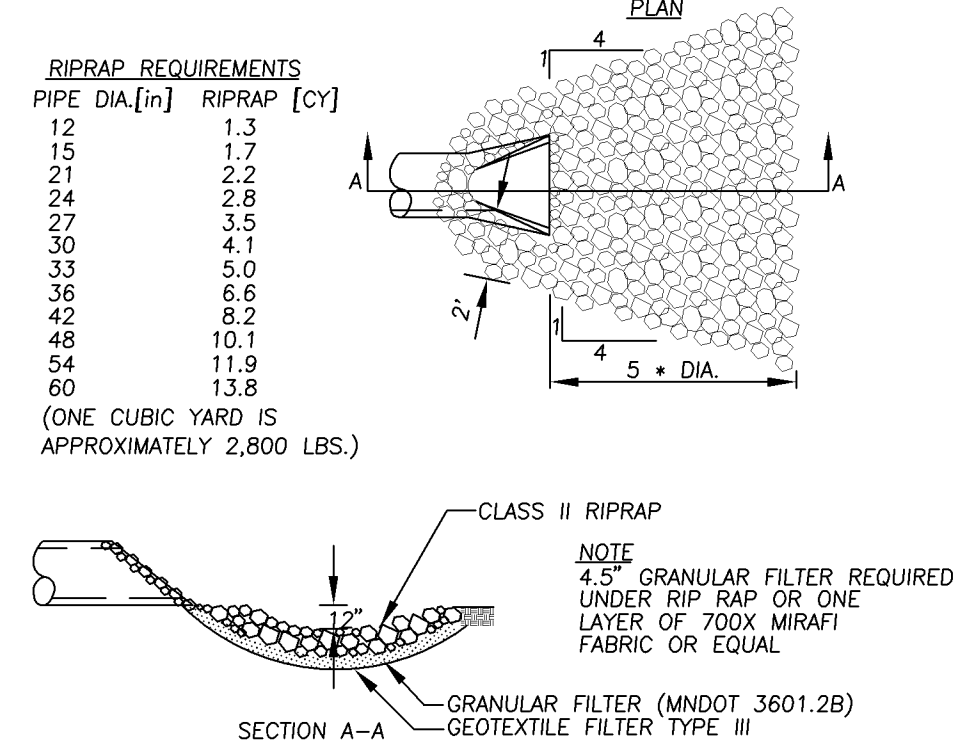
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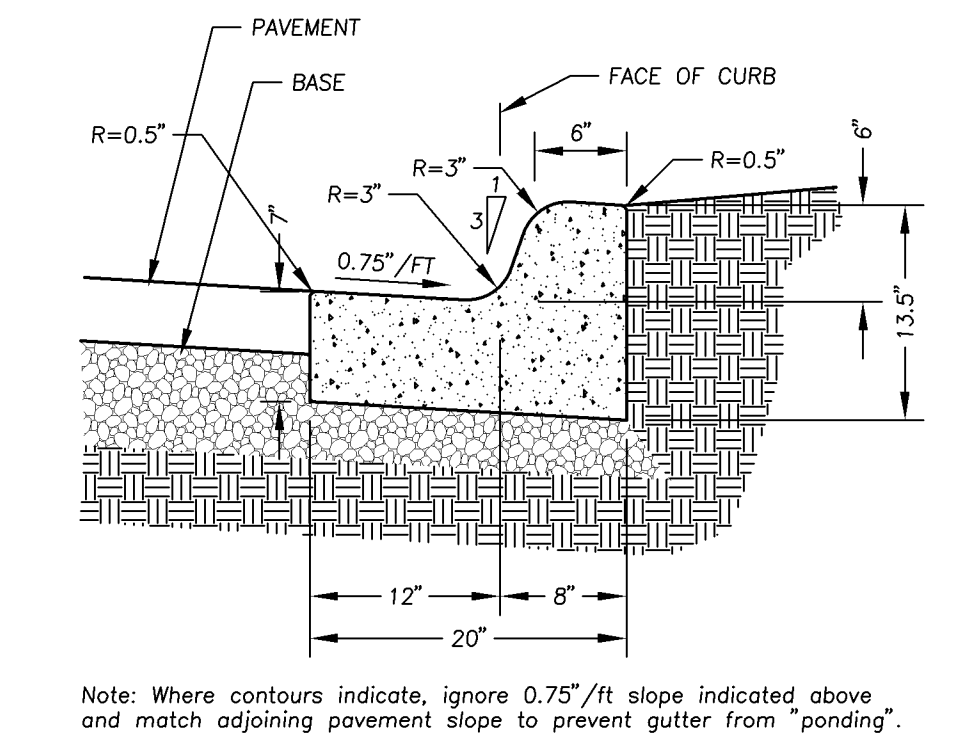
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(INFRA SAFE OR EQUAL)
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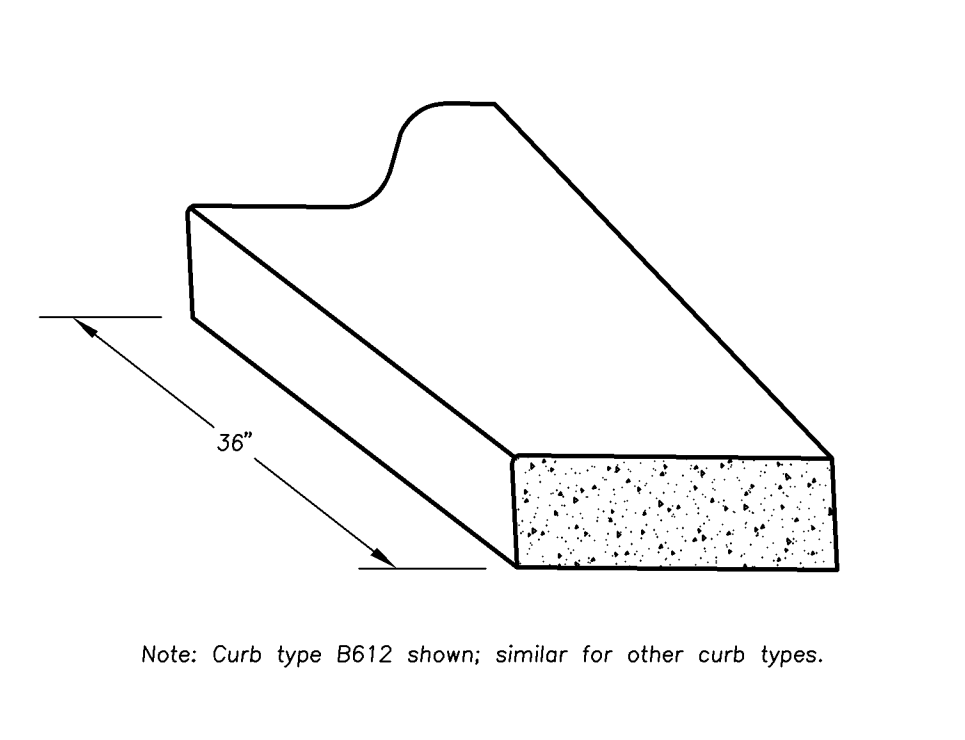
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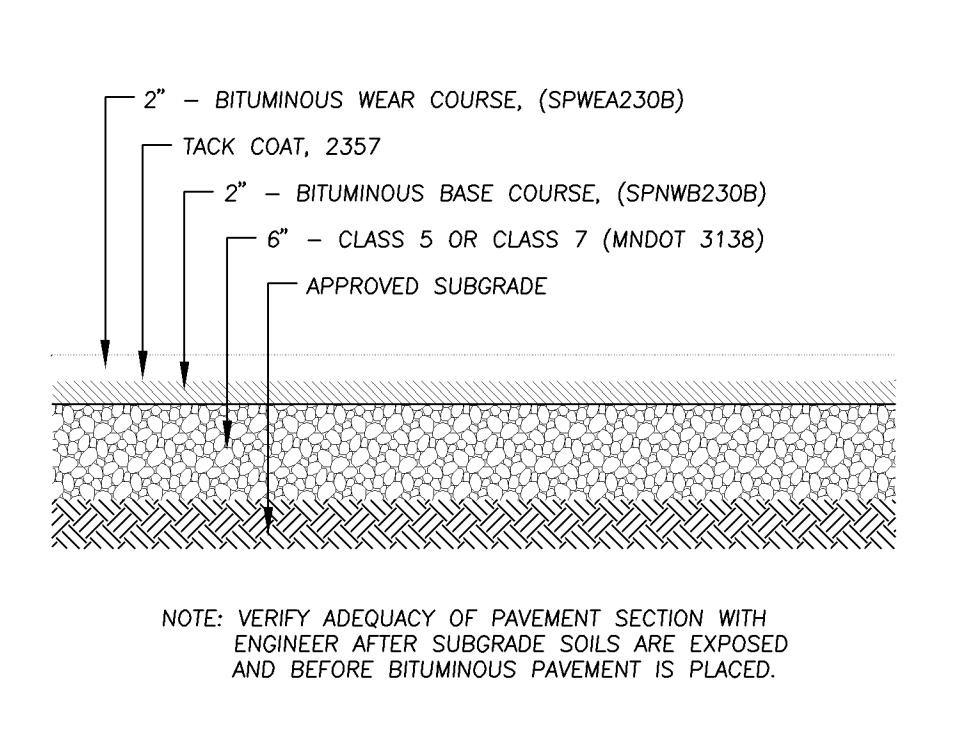
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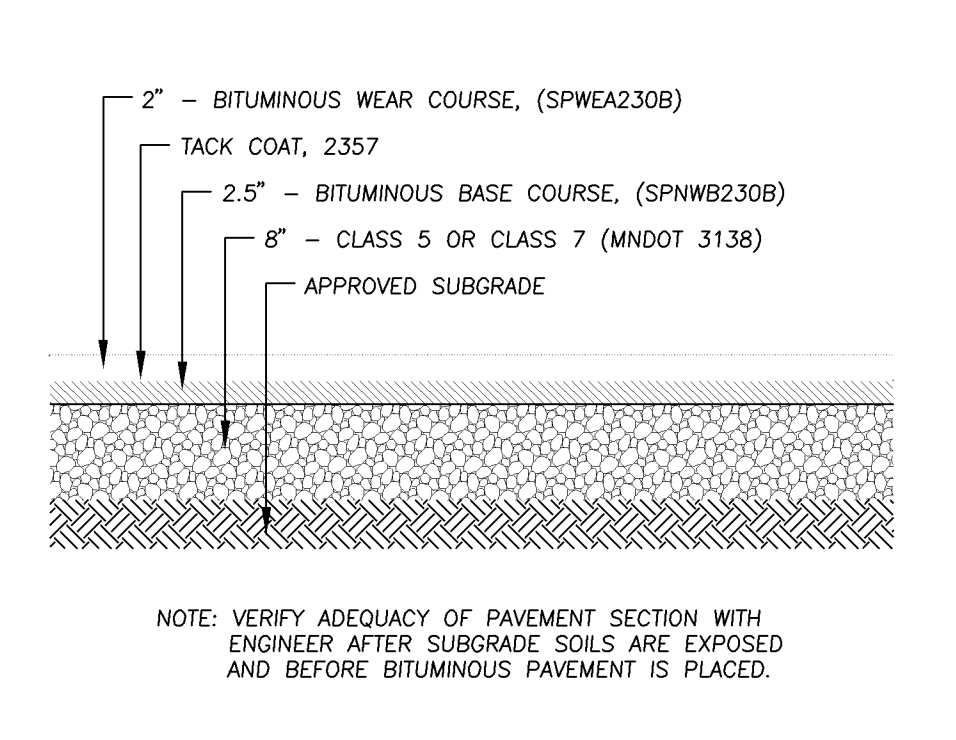
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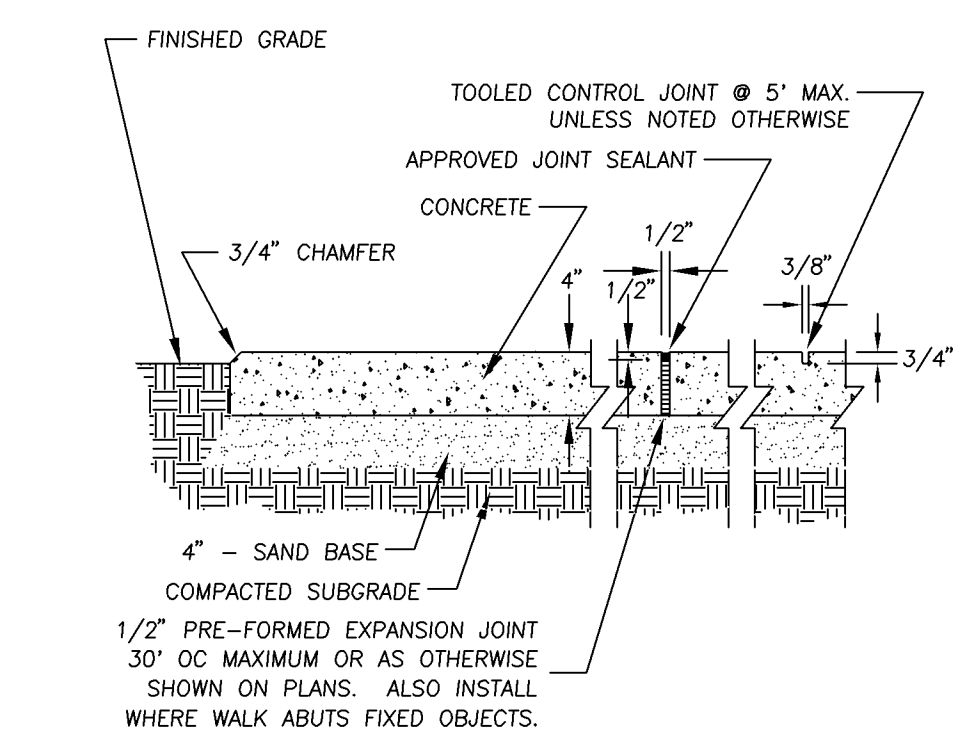
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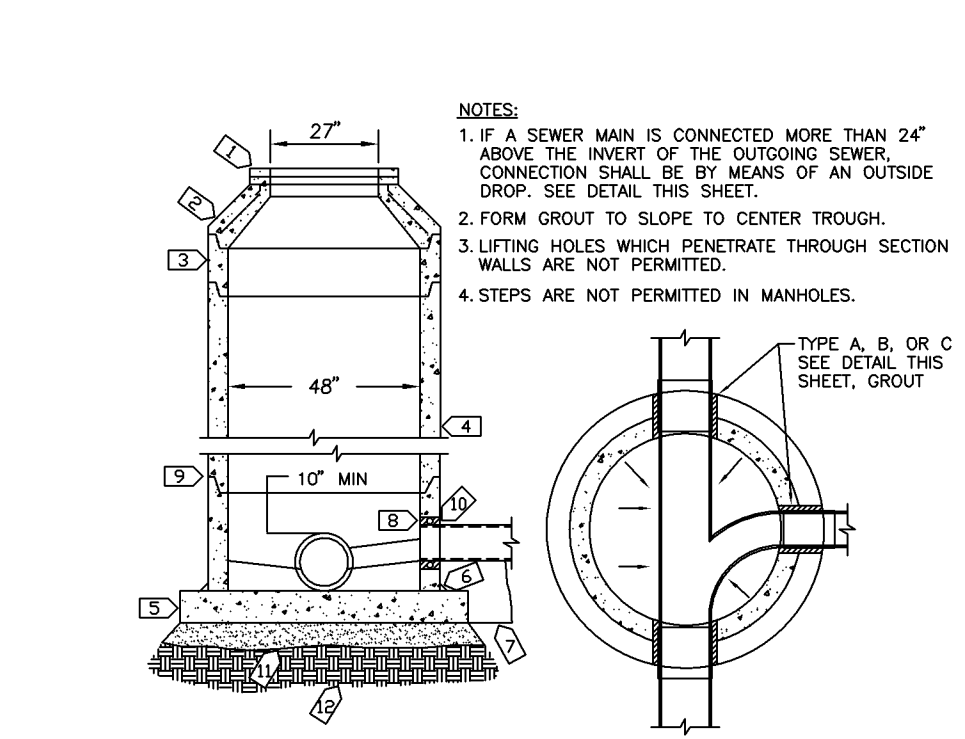
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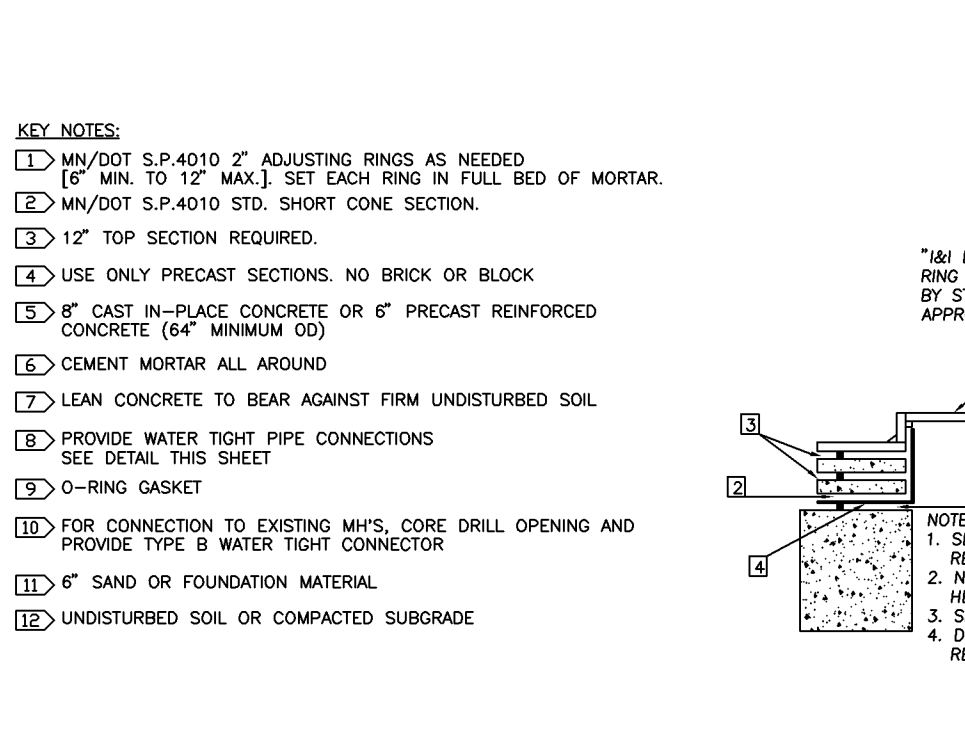
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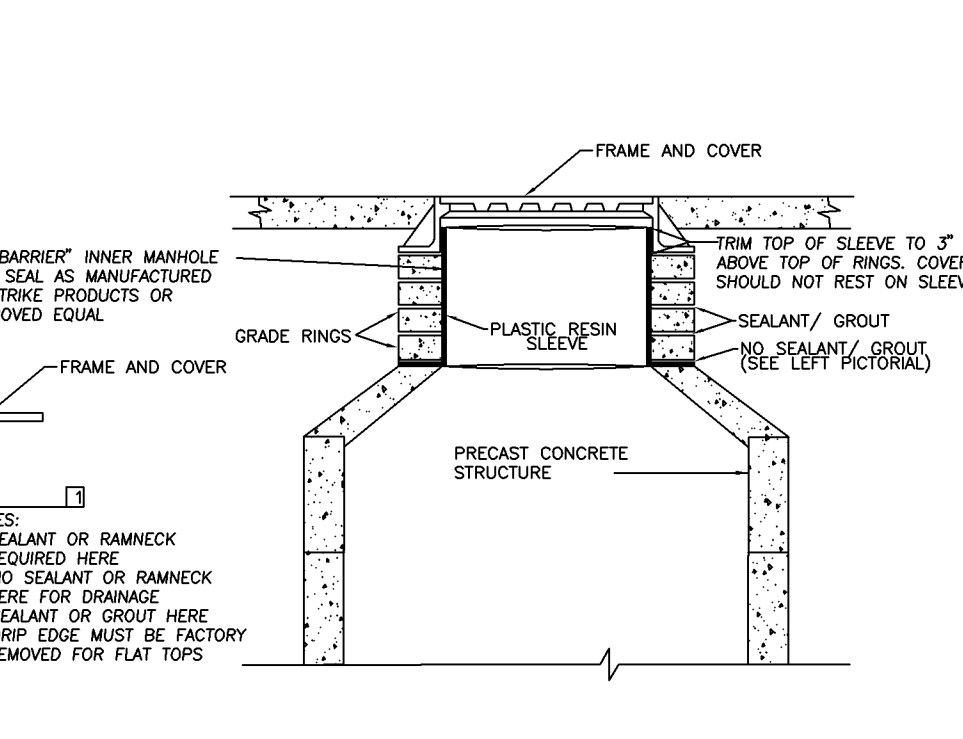
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11
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STD. SANITARY SEWER MH
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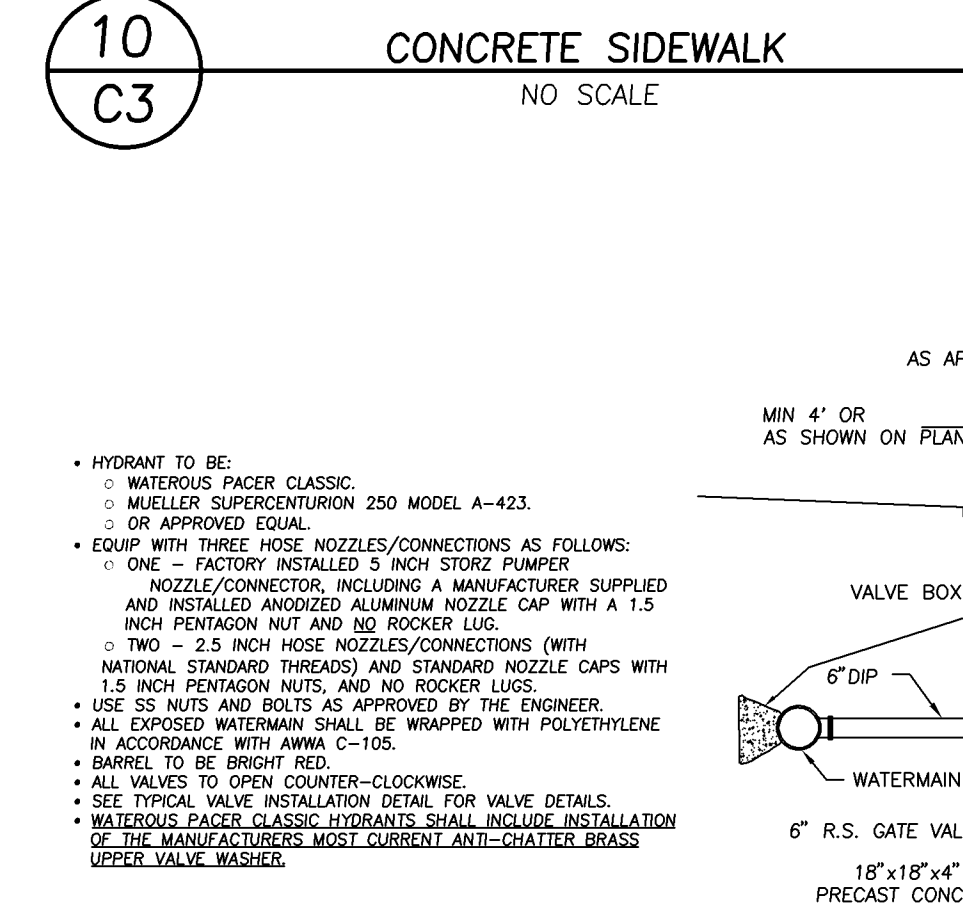
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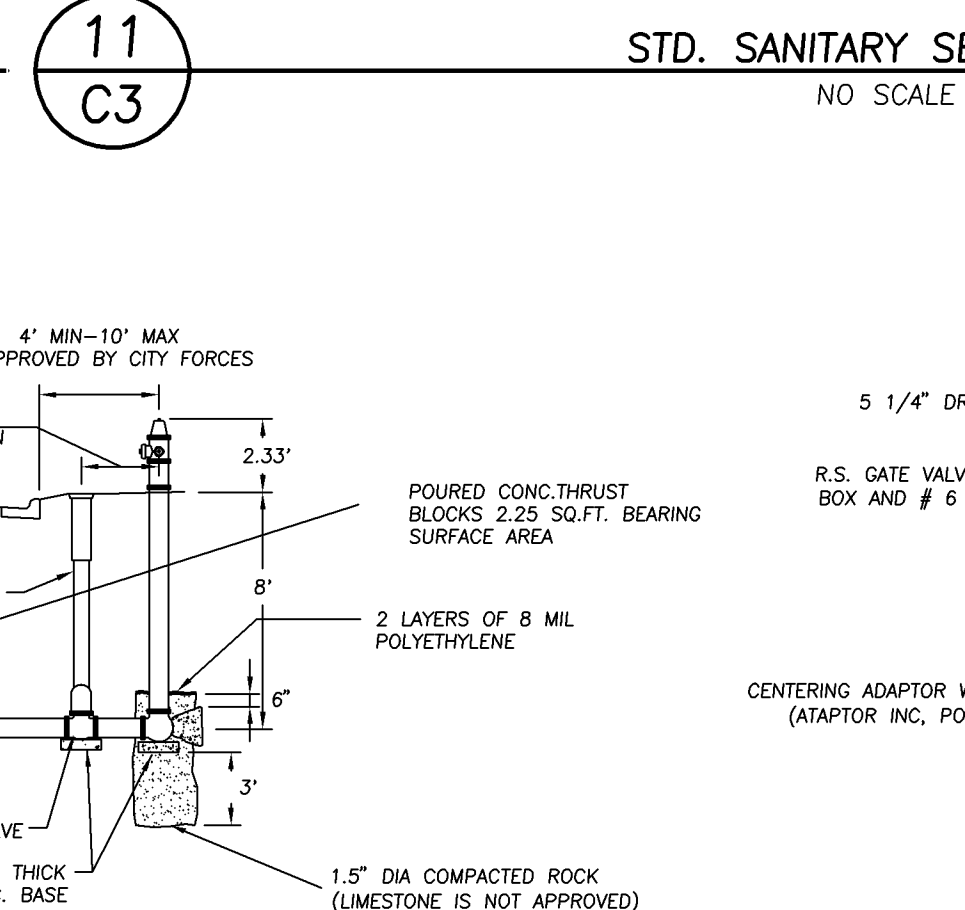
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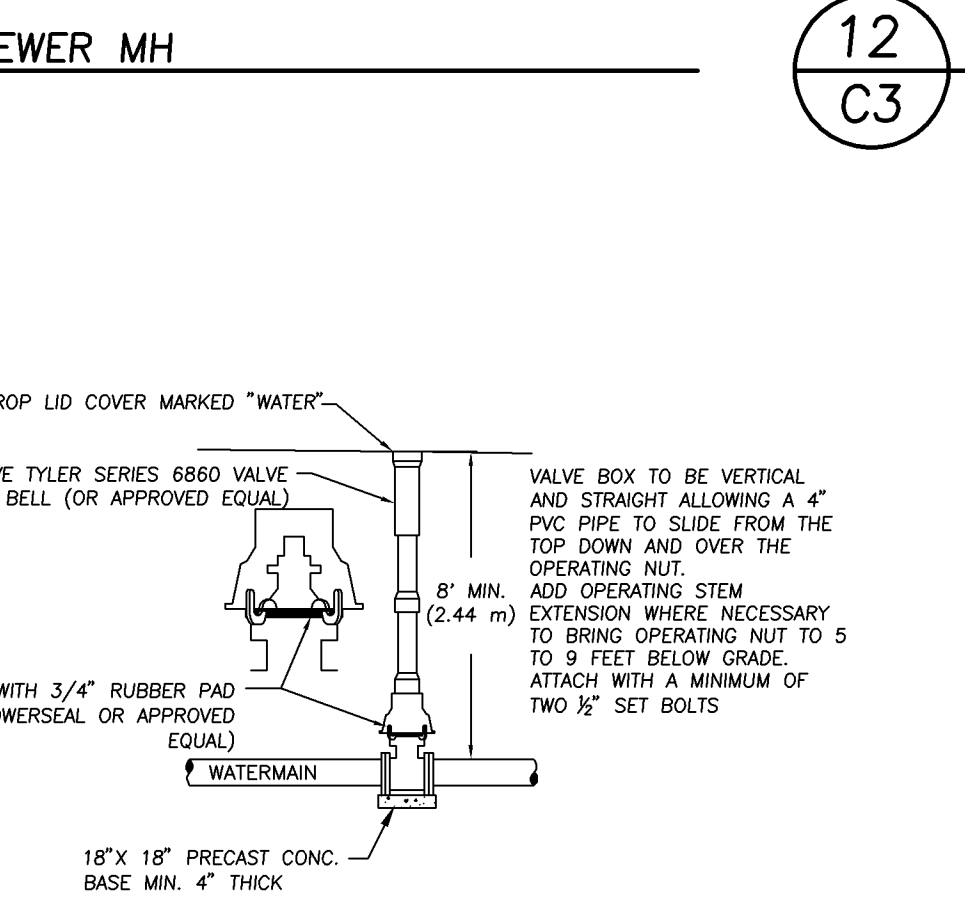
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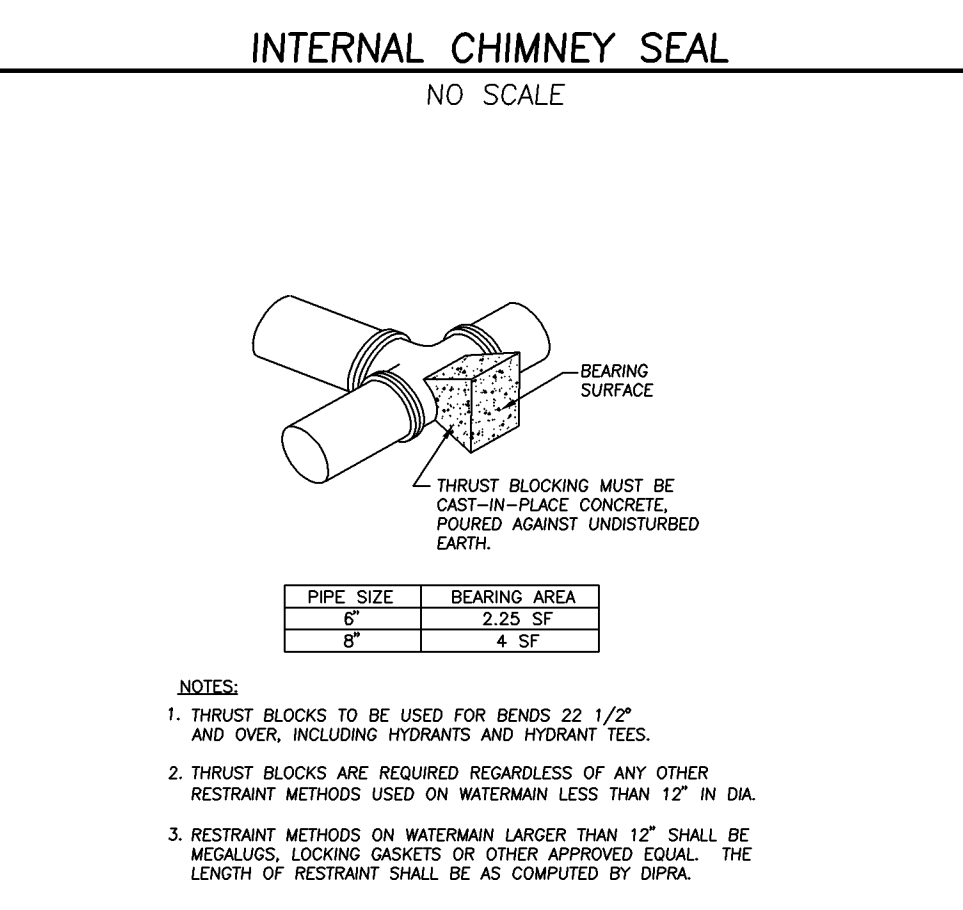
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TYPICAL THRUST BLOCK
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16
C3
TYPICAL HYDRANT INSTALLATION
NO SCALE



17
C3
TYPICAL VALVE INSTALLATION
NO SCALE



18
C3
TYPICAL THRUST BLOCK
NO SCALE

I hereby certify that this plan was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer in the State of Minnesota.
PRELIMINARY
Name _____ Date _____ Reg. No. _____

Issued
CITY SUBMITTAL
4-30-16

DETAILS & SPECIFICATIONS PLAN
WALSER TOYOTA
CITY OF BLOOMINGTON

SHEET NUMBER
C3