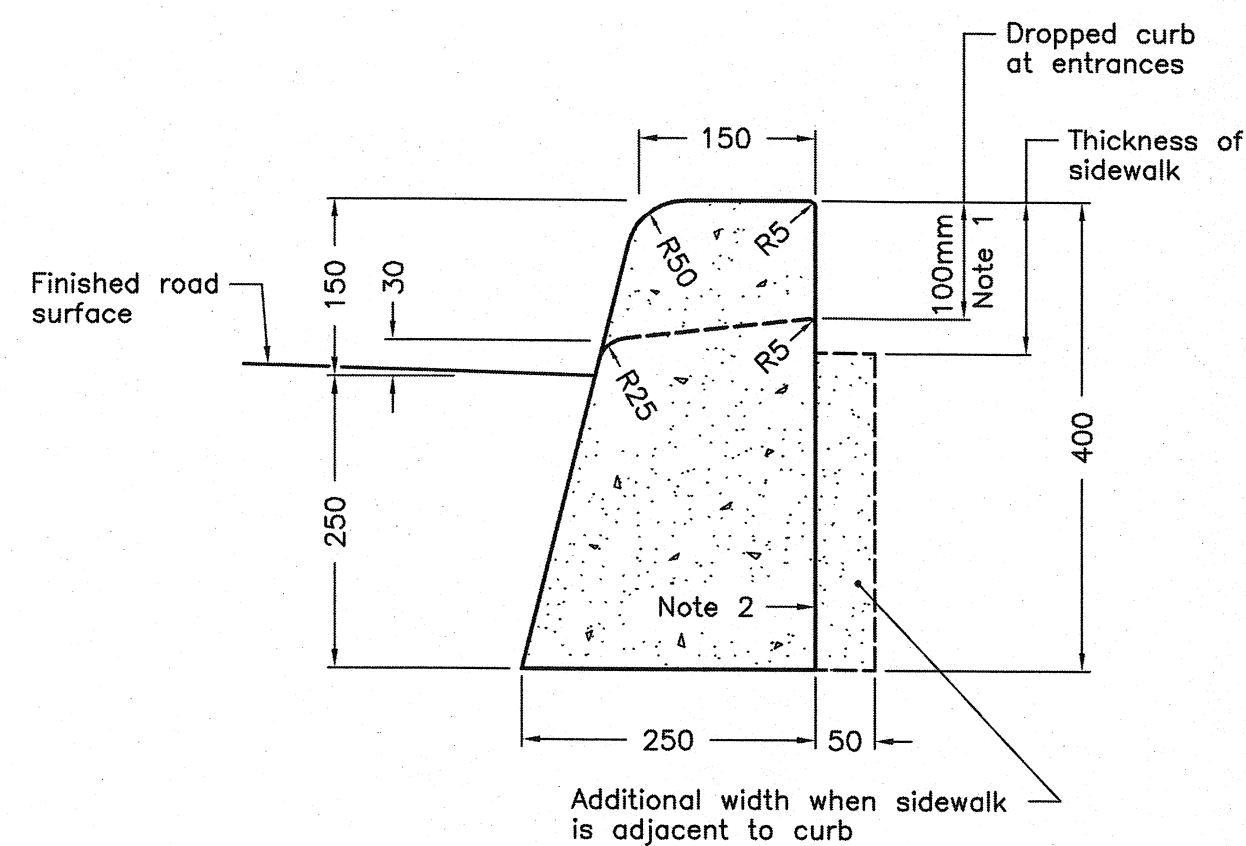
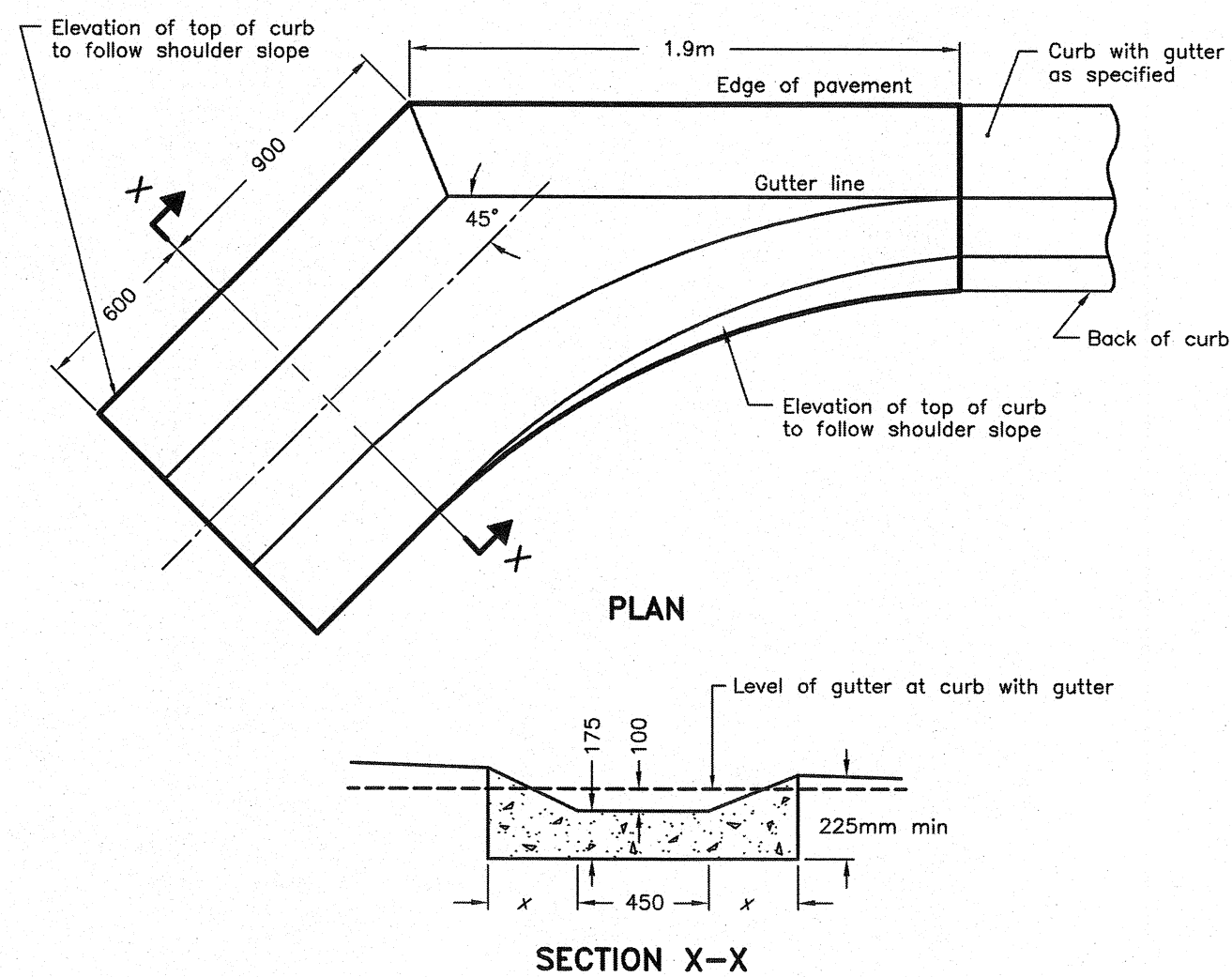




- NOTES:
- When sidewalk is continuously adjacent, the dropped curb at entrances shall be reduced to 75mm.
 - For slipforming procedure a 5% batter is acceptable.
 - A treatment at entrances shall be according to OPSD 351.010.
 - Outlet treatment shall be according to the OPSD 610 Series.
 - The transition from one curb type to another shall be a minimum length of 3.0m, except in conjunction with guide rail where it shall be according to the OPSD 900 Series.
 - All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2	
CONCRETE BARRIER CURB			
OPSD 600.110			

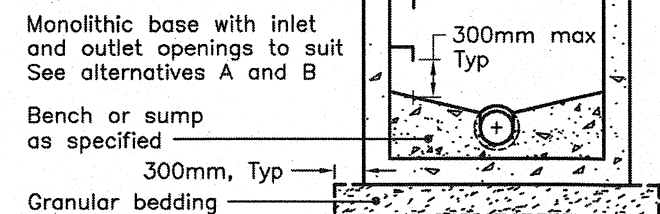


- NOTES:
- The sump is measured from the lowest invert.
 - Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
 - Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
 - Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
 - Pipe support according to OPSD 708.020.
 - For benching and pipe opening details, see OPSD 701.021.
 - For adjustment unit and frame installation, see OPSD 704.010.
 - All dimensions are nominal.
 - All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2012	Rev 2	
45° CONCRETE OUTLET FOR CONCRETE CURB WITH GUTTER AT END OF RUN			
OPSD 605.030			

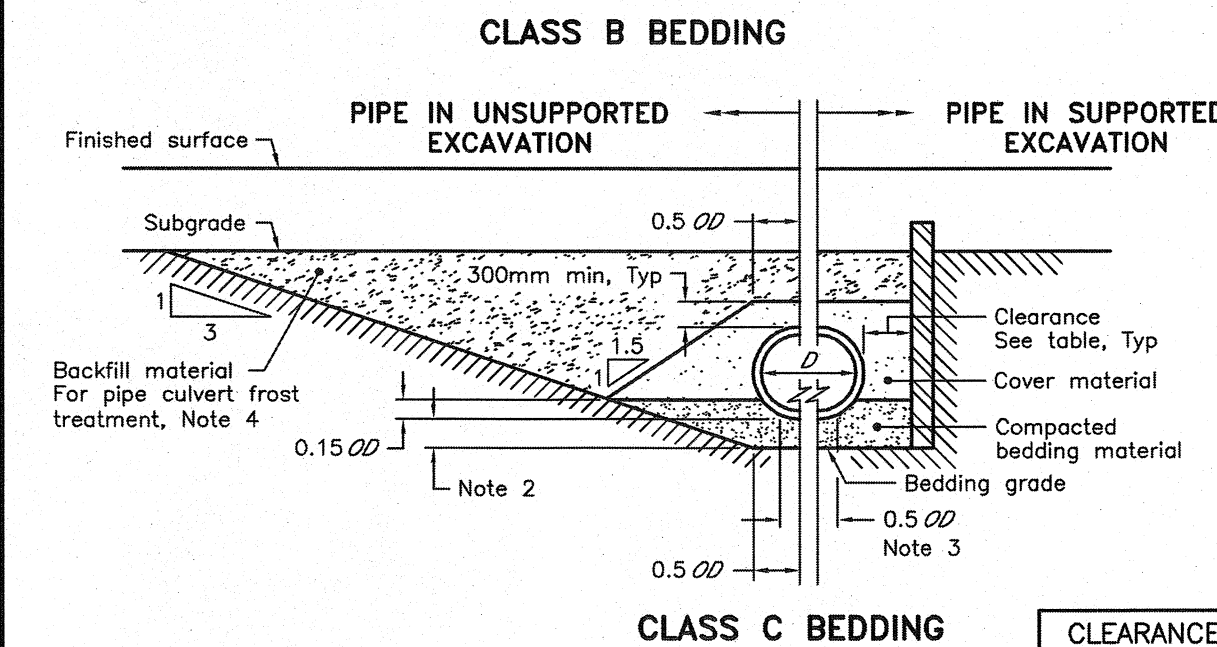
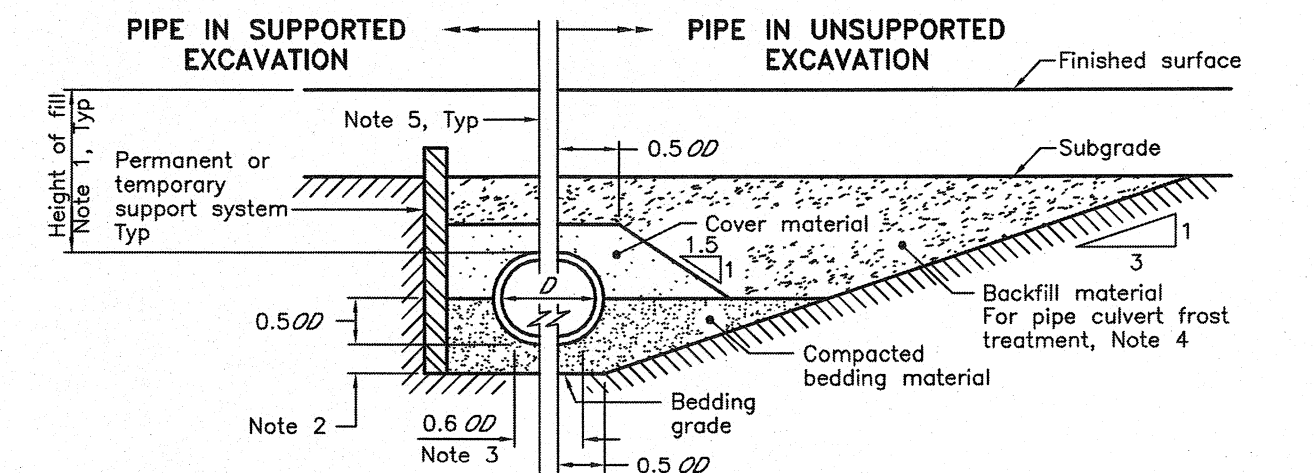
Tapered top
See alternative C

Riser sections
as required



- NOTES:
- The sump is measured from the lowest invert.
 - Granular backfill shall be placed to a minimum thickness of 300mm all around the maintenance hole.
 - Precast concrete components shall be according to OPSD 701.030, 701.031, or 701.032.
 - Structure exceeding 5.0m in depth shall include safety platform according to OPSD 404.020.
 - Pipe support according to OPSD 708.020.
 - For benching and pipe opening details, see OPSD 701.021.
 - For adjustment unit and frame installation, see OPSD 704.010.
 - All dimensions are nominal.
 - All dimensions are in millimetres unless otherwise shown.

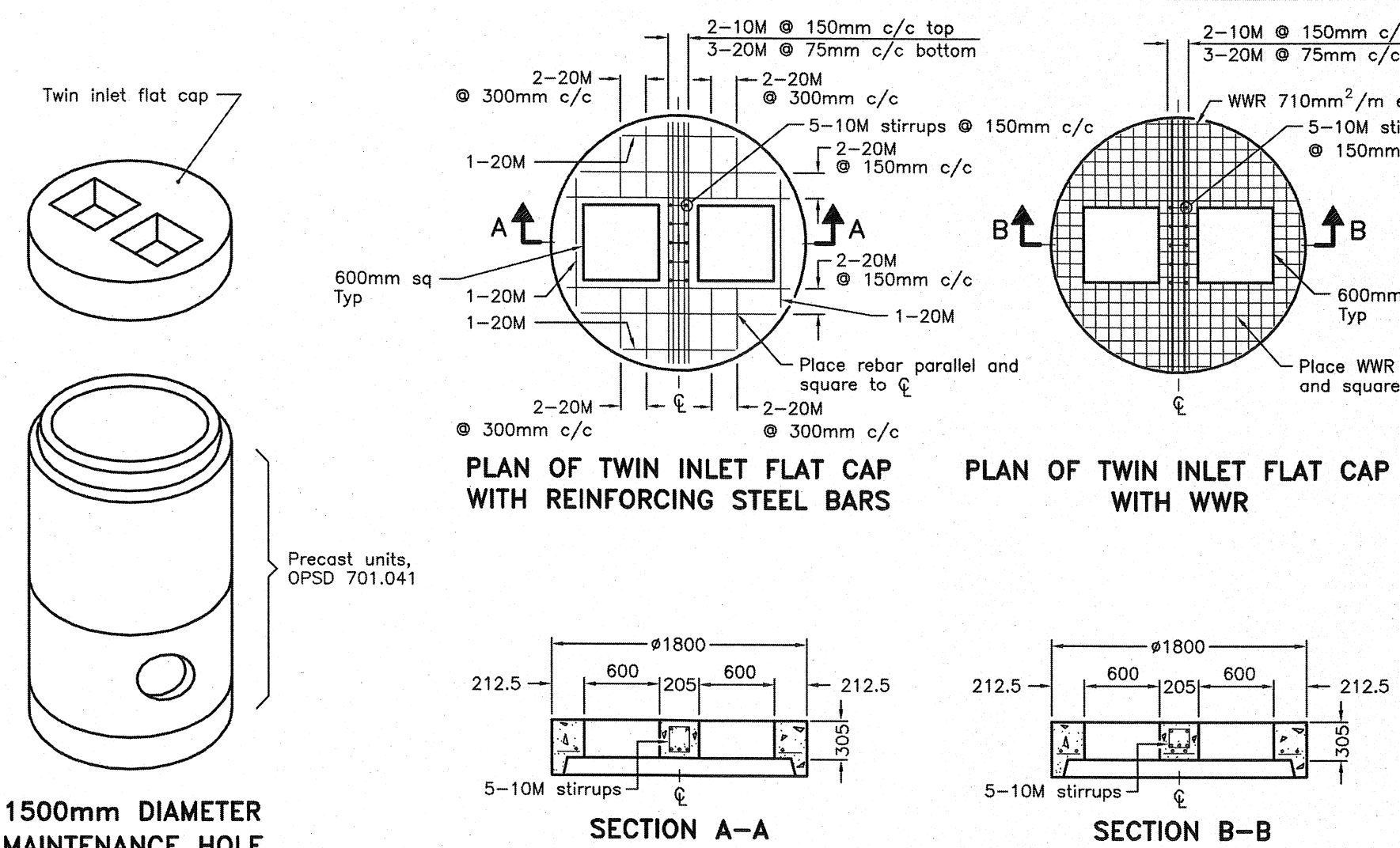
ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 5	
PRECAST CONCRETE MAINTENANCE HOLE 1200mm DIAMETER			
OPSD 701.010			



- LEGEND:
- D - Inside diameter
OD - Outside diameter

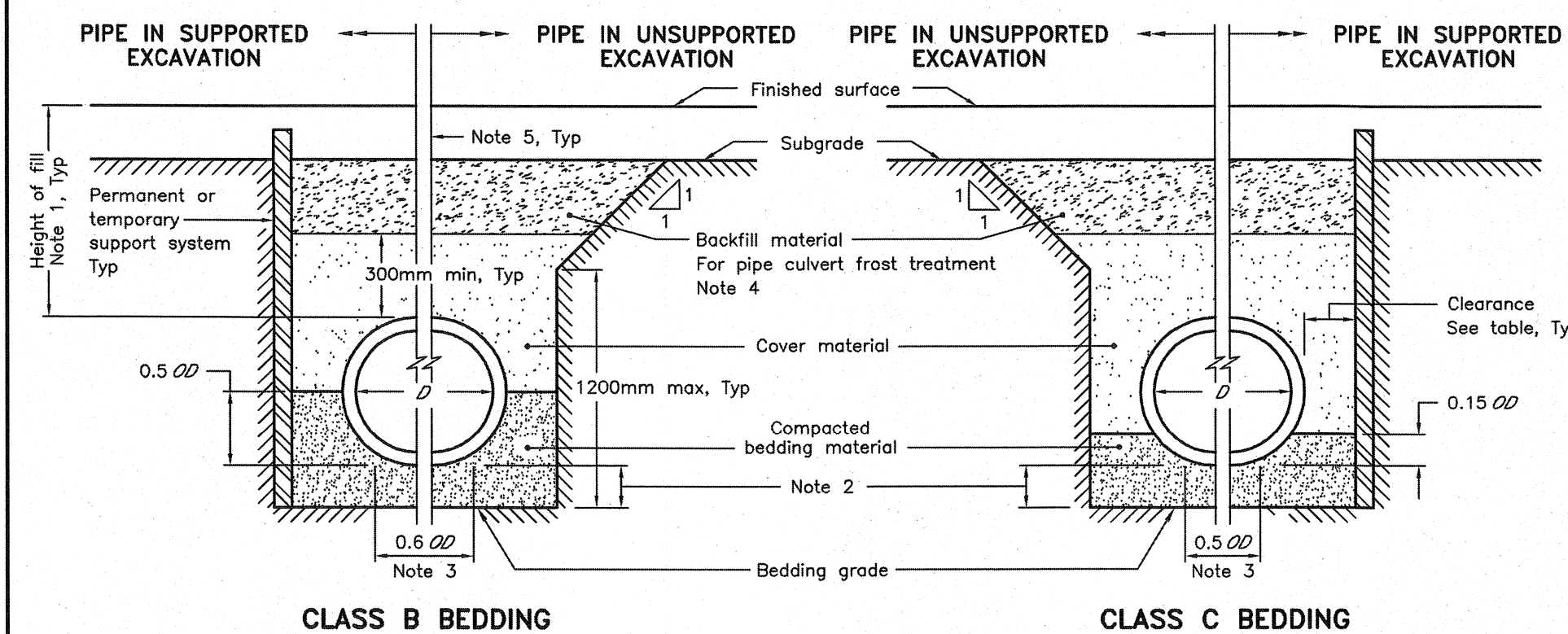
- NOTES:
- Height of fill is measured from the finished surface to top of pipe.
 - The minimum bedding depth below the pipe shall be 0.15D. In no case shall this dimension be less than 150mm or greater than 300mm.
 - The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
 - Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
 - Condition of excavation is symmetrical about centreline of pipe.
 - Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
 - All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 3	
RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 4 SOIL - EARTH EXCAVATION			
OPSD 802.032			



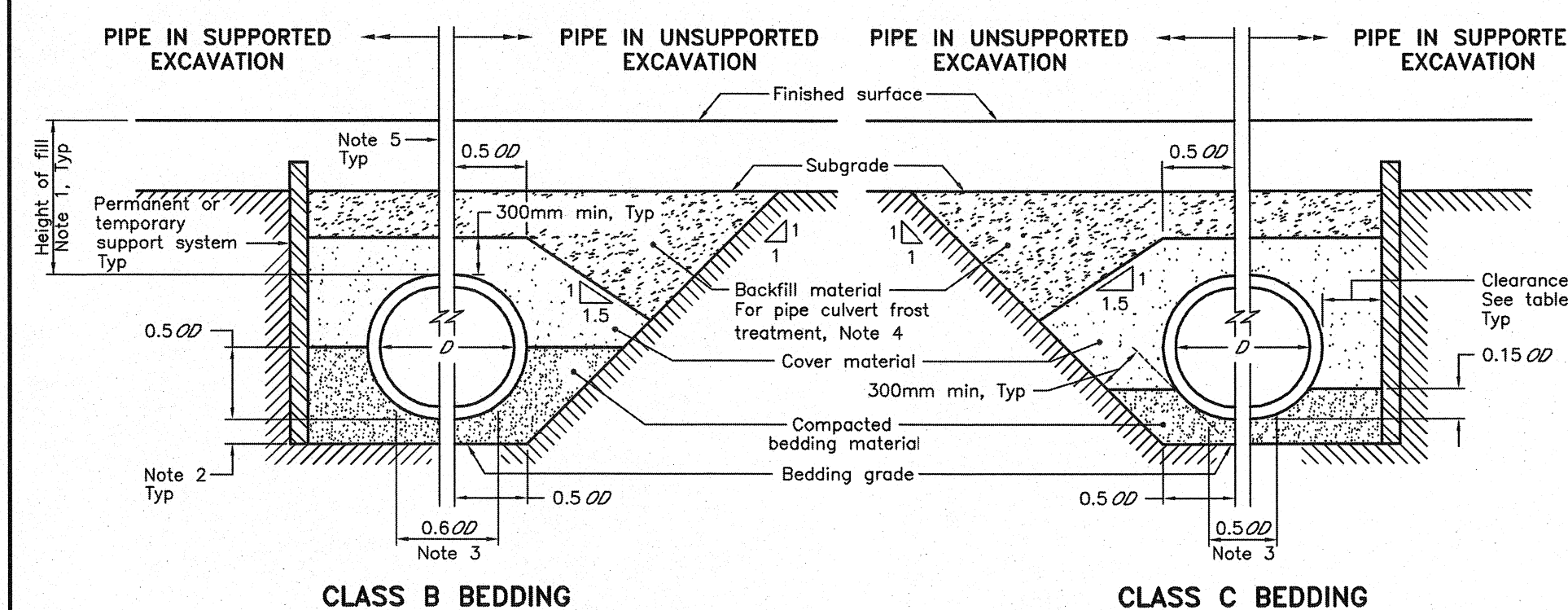
- NOTES:
- All reinforcing steel shall have 25mm minimum cover.
 - All dimensions are nominal.
 - All dimensions are in millimetres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2014	Rev 2	
PRECAST CONCRETE TWIN INLET FLAT CAP 1500mm DIAMETER			
OPSD 703.021			



- NOTES:
- Height of fill is measured from the finished surface to top of pipe.
 - The minimum bedding depth below the pipe shall be 0.15D. In no case shall this dimension be less than 150mm or greater than 300mm.
 - The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
 - Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
 - Condition of excavation is symmetrical about centreline of pipe.
 - Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
 - All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 3	
RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 1 OR 2 SOIL - EARTH EXCAVATION			
OPSD 802.030			



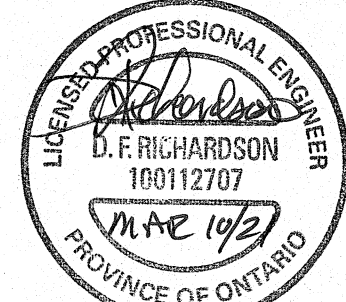
- NOTES:
- Height of fill is measured from the finished surface to top of pipe.
 - The minimum bedding depth below the pipe shall be 0.15D. In no case shall this dimension be less than 150mm or greater than 300mm.
 - The pipe bed shall be compacted and shaped to receive the bottom of the pipe.
 - Pipe culvert frost treatment shall be according to OPSD 803.030 and 803.031.
 - Condition of excavation is symmetrical about centreline of pipe.
 - Soil types as defined in the Occupational Health and Safety Act and Regulations for Construction Projects.
 - All dimensions are in metres unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING	Nov 2015	Rev 3	
RIGID PIPE BEDDING, COVER, AND BACKFILL TYPE 3 SOIL - EARTH EXCAVATION			
OPSD 802.031			

FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
Barrie No. of Pages: 1

BENCHMARK:
BENCHMARK NO. 01019865404 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE IS OVER LOWERS CREEK, 0.80M EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.40M NORTH OF CENTRELINE OF ROAD, 282M WEST OF THE NORTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. ELEV 241.861
BENCHMARK NO. 03120030222 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7M SOUTH FROM THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHWEST CORNER OF THE MAIN ENTRANCE TO SCHOOL. ELEV 245.998
BENCHMARK NO. 03120080504 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 1.10M EAST OF HURONIA ROAD. H4910781.22 ELEV 245.002 ELEV 245.998
BENCHMARK NO. 03120110013 LOCATED ON LOCKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02M WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION H4900870.257 ELEV 250.733 ELEV 250.807

7	SITE PLAN AMENDMENT	21-03-08	DR
6	FIFTH SUBMISSION	19-11-13	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
NO.	REVISIONS	DATE	INITIAL



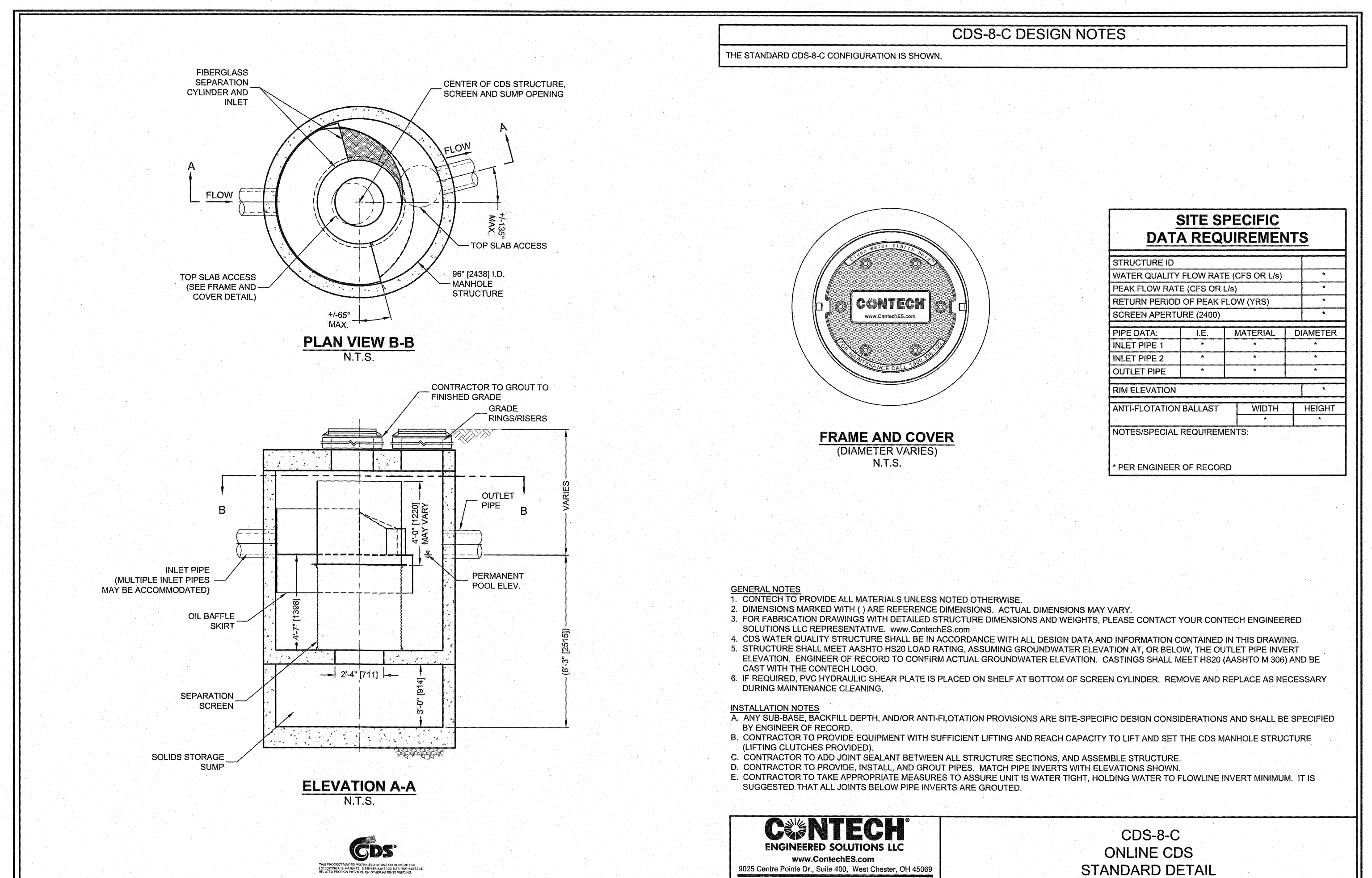
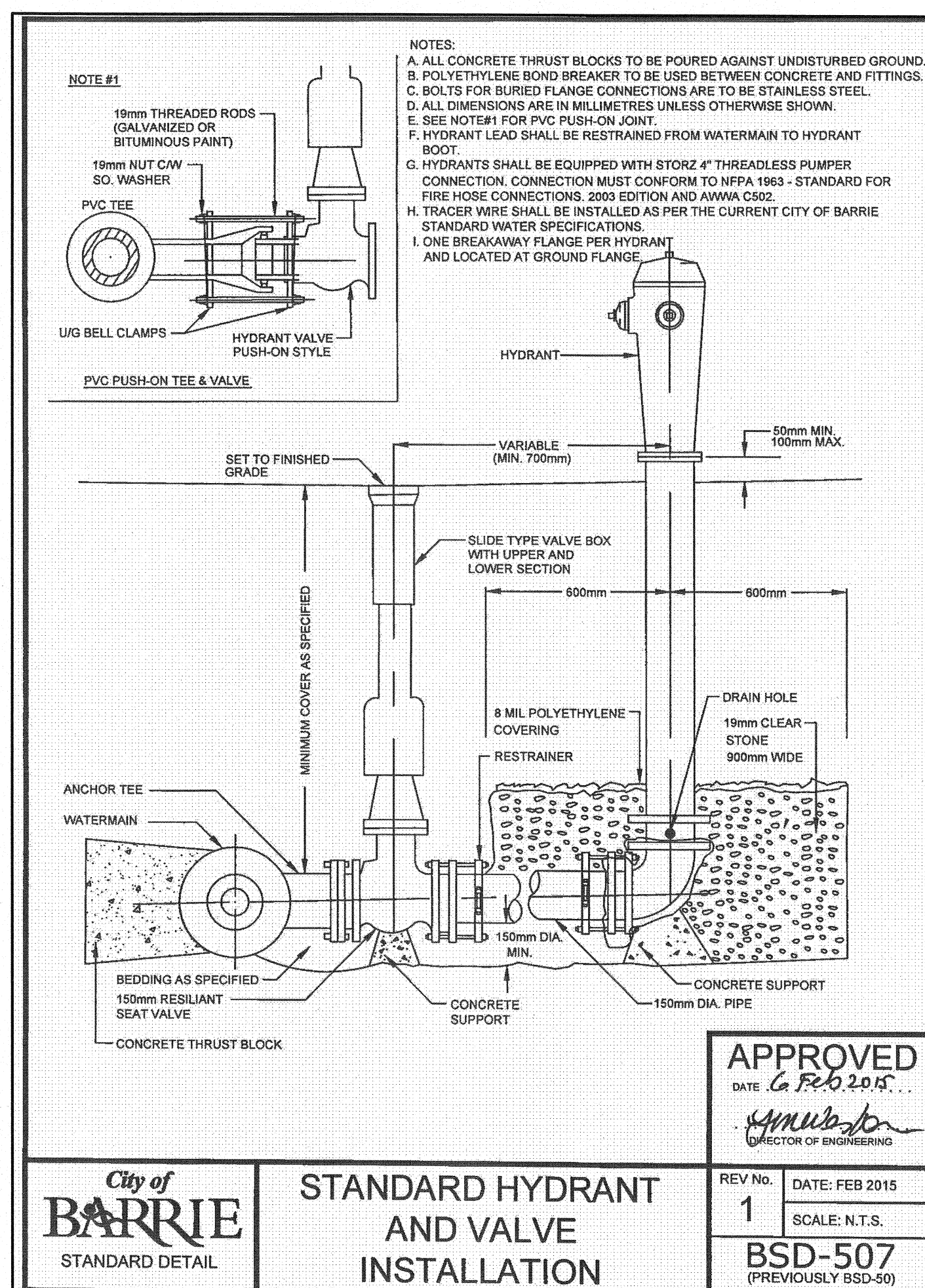
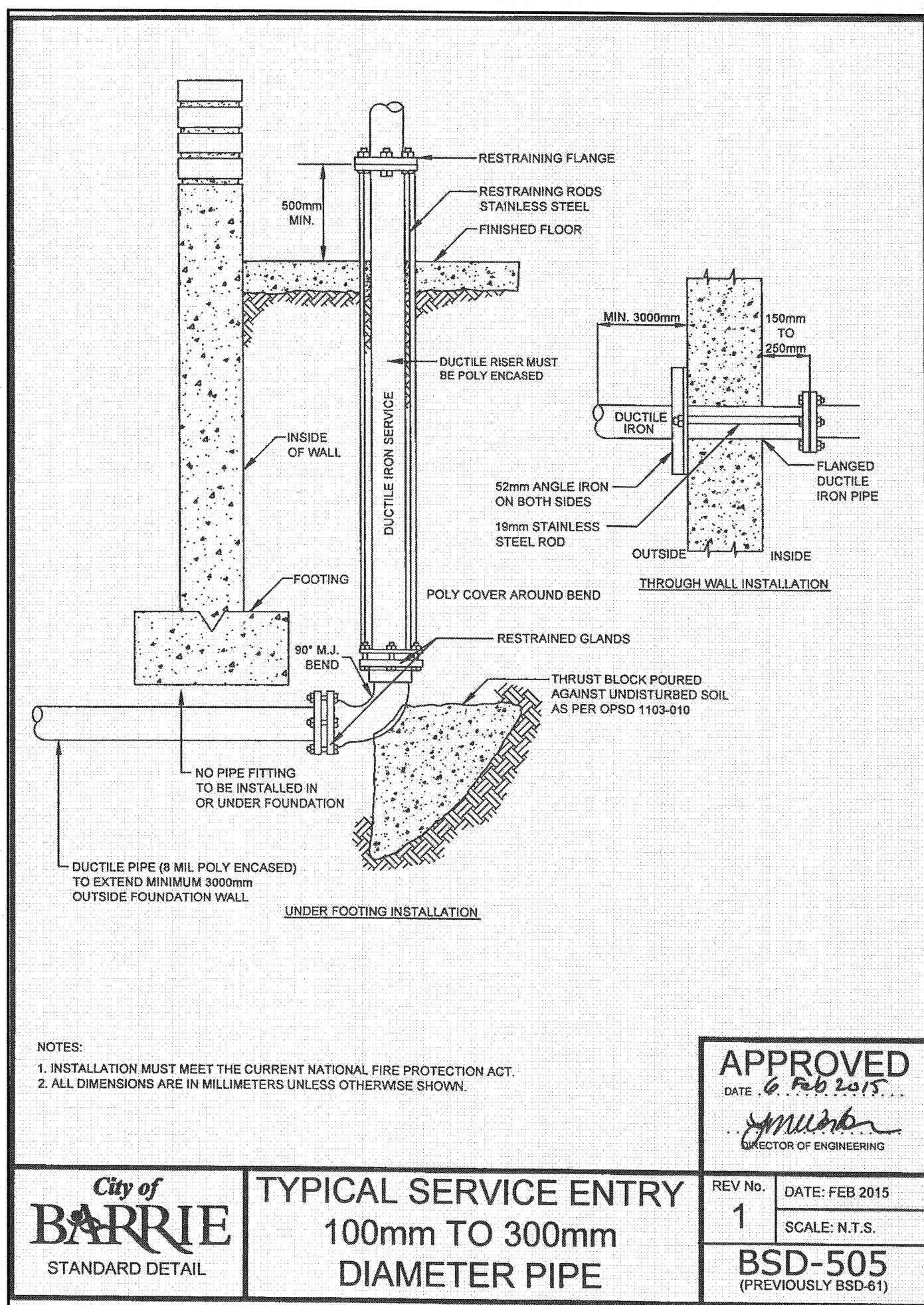
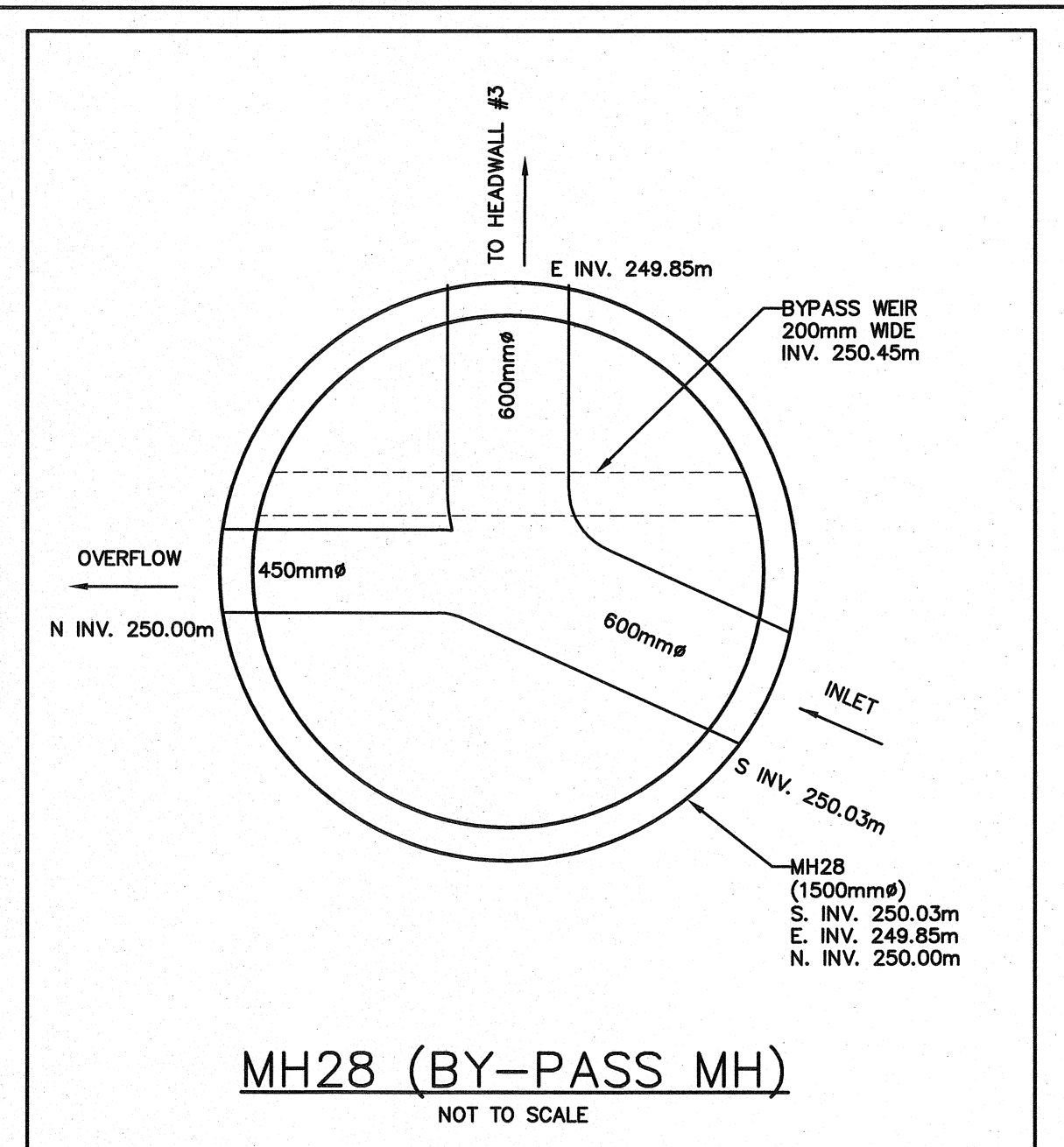
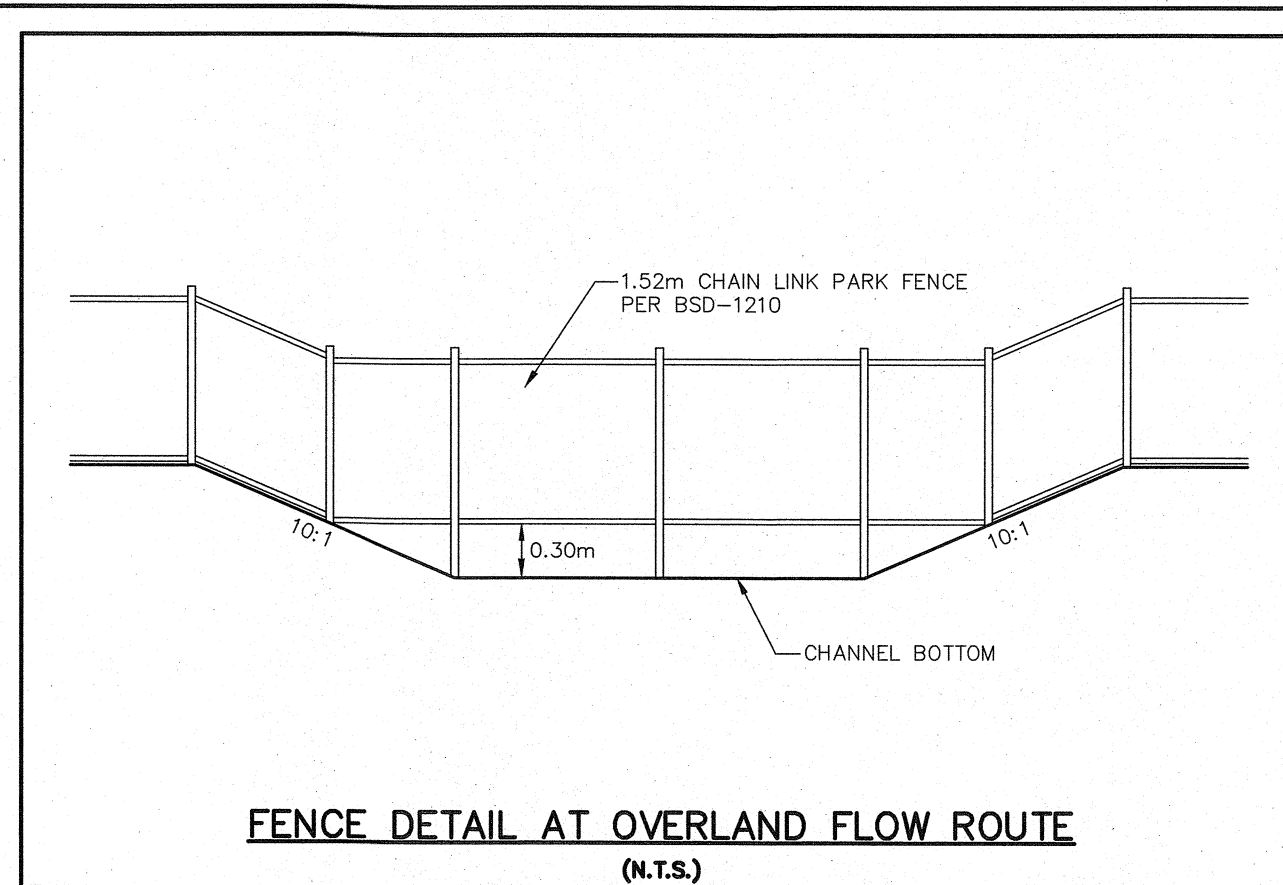
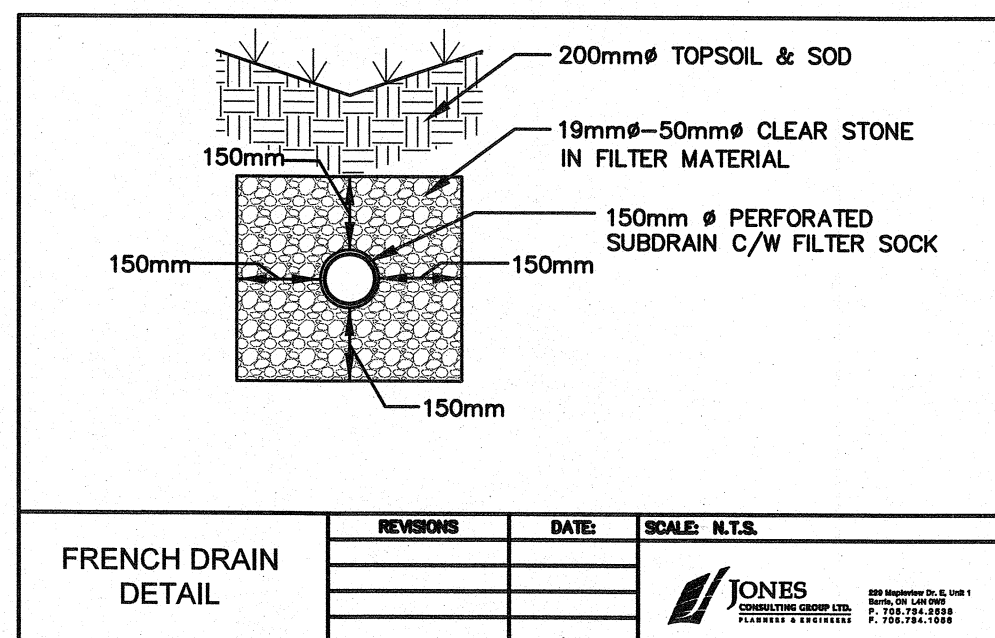
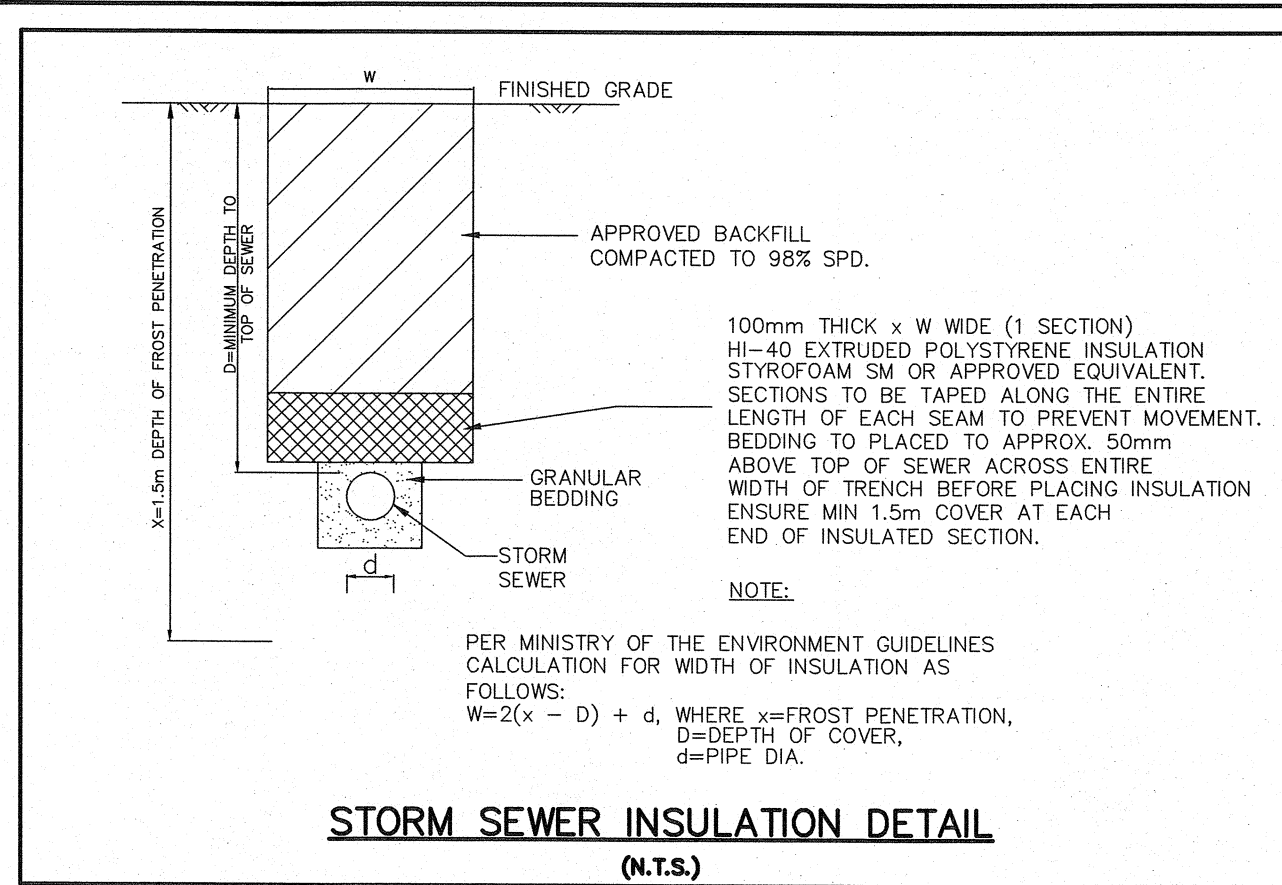
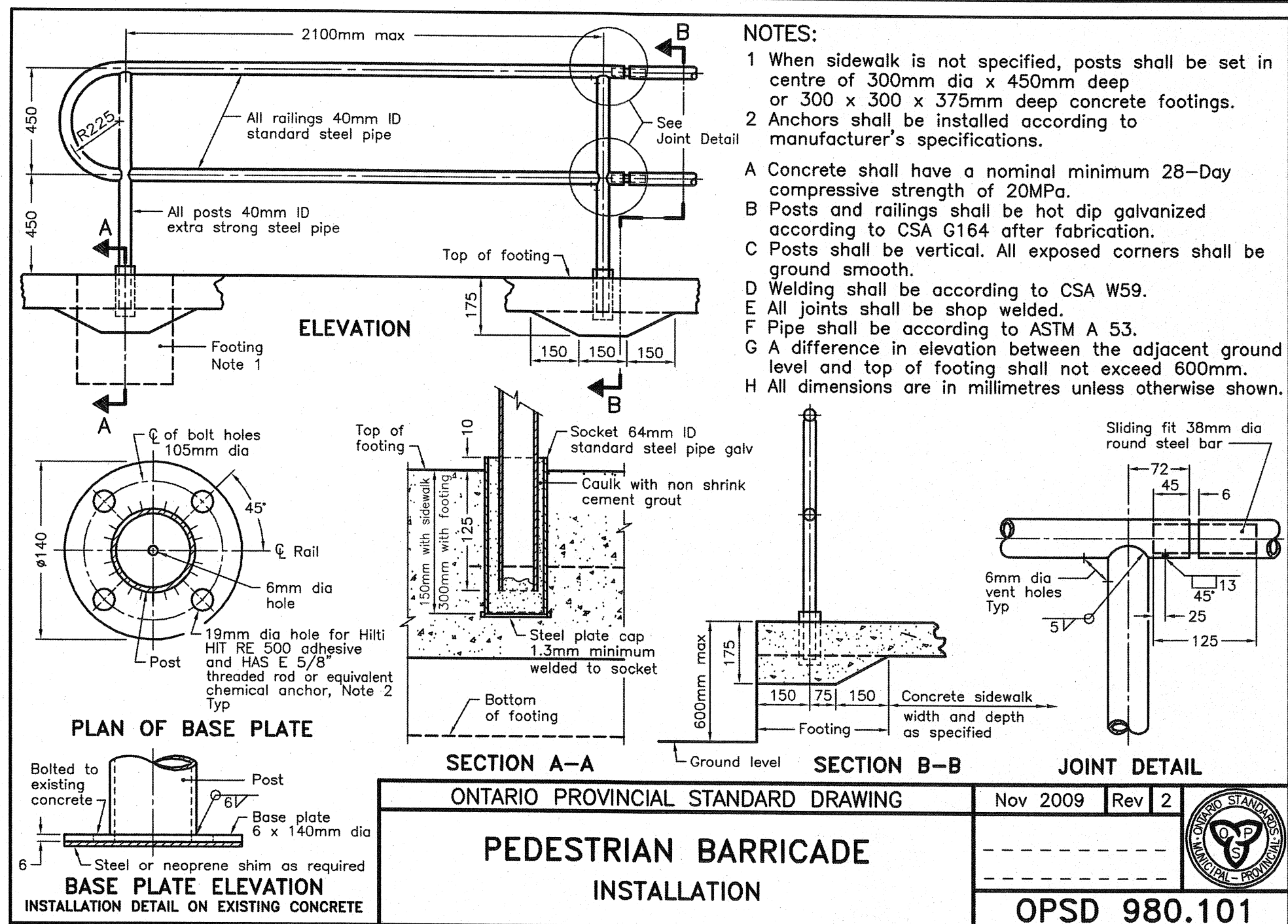
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

STANDARD DETAILS

JONES
CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

DESIGN J.H.	SCALE: N/A	DATE JULY 2017
DRAWN J.H.	PROJECT	DWG. NO
CHECKED DR	PRA-17021	DET-2

229 Mapleview Dr. E. Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058



FINAL APPROVED PLAN
 File: D11-017-2017
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BENCHMARK:

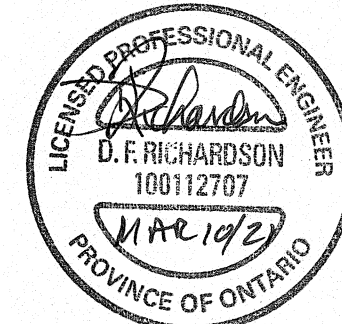
BENCHMARK NO. 01018885454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE 2' OVER LOWEST CROSSING EAST OF HURONTARIO ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.45M NORTH OF CENTRELINE OF ROAD, 25CM WEST OF THE NORTHEAST END OF BRIDGE, 19cm TOP OF CURBING. N4910788.889 E507284.100 ELEV 241.861

BENCHMARK NO. 03120020029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911810 E507799 ELEV 250.508

BENCHMARK NO. 03120080058 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 11m EAST OF HURONTARIO ROAD. N4910788.122 E507620.052 ELEV 248.898

BENCHMARK NO. 03120110013 LOCATED ON LOOKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONTARIO ROAD INTERSECTION. N49009670.257 E508733.580 ELEV 232.807

7	SITE PLAN AMENDMENT	21-03-08	DR
6	FIFTH SUBMISSION	19-11-13	DR
5	FOURTH SUBMISSION	19-08-30	DR
4	THIRD SUBMISSION	19-05-24	DR
3	SECOND SUBMISSION	19-01-11	DR
NO.	REVISIONS	DATE	INITIAL



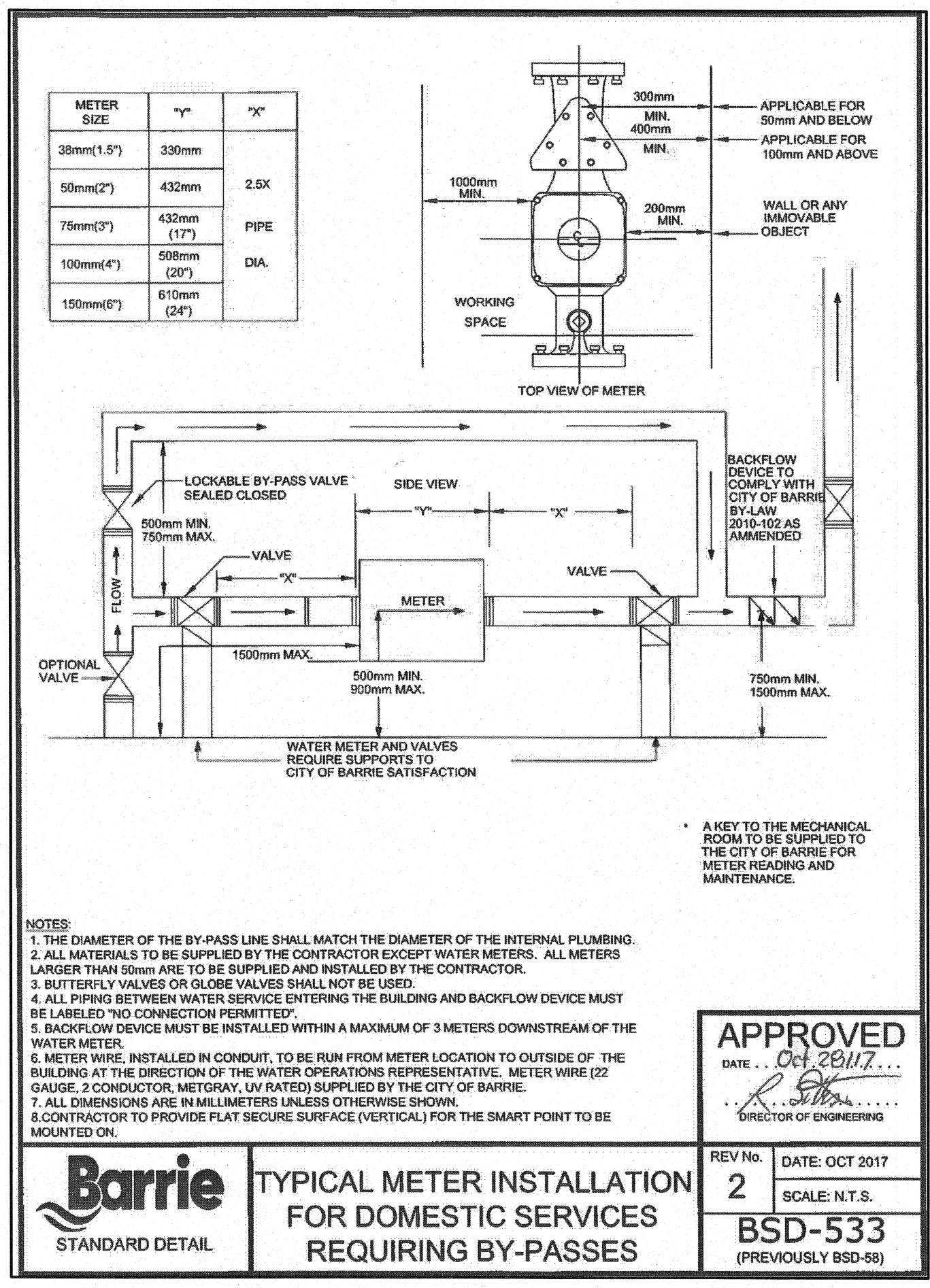
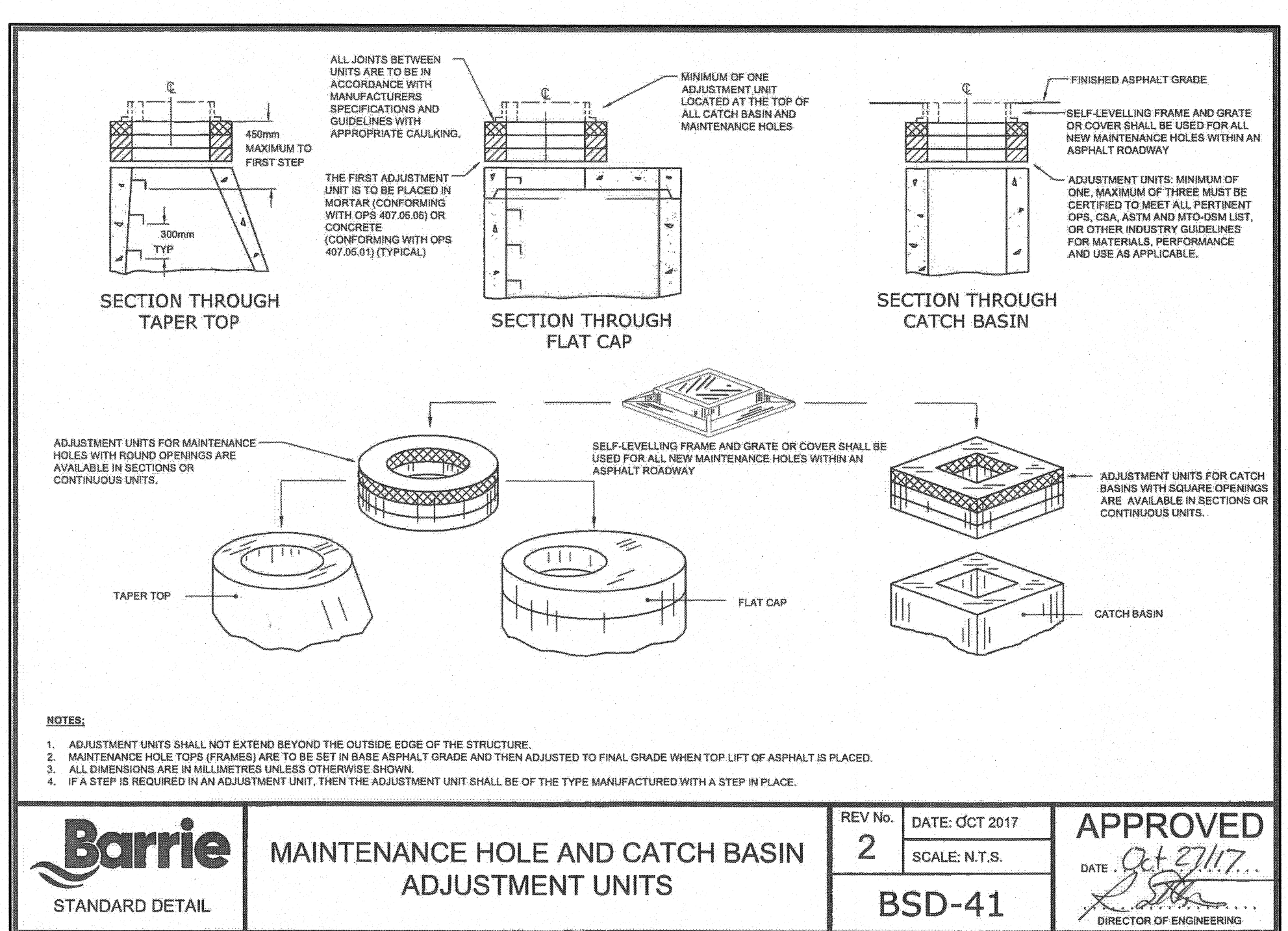
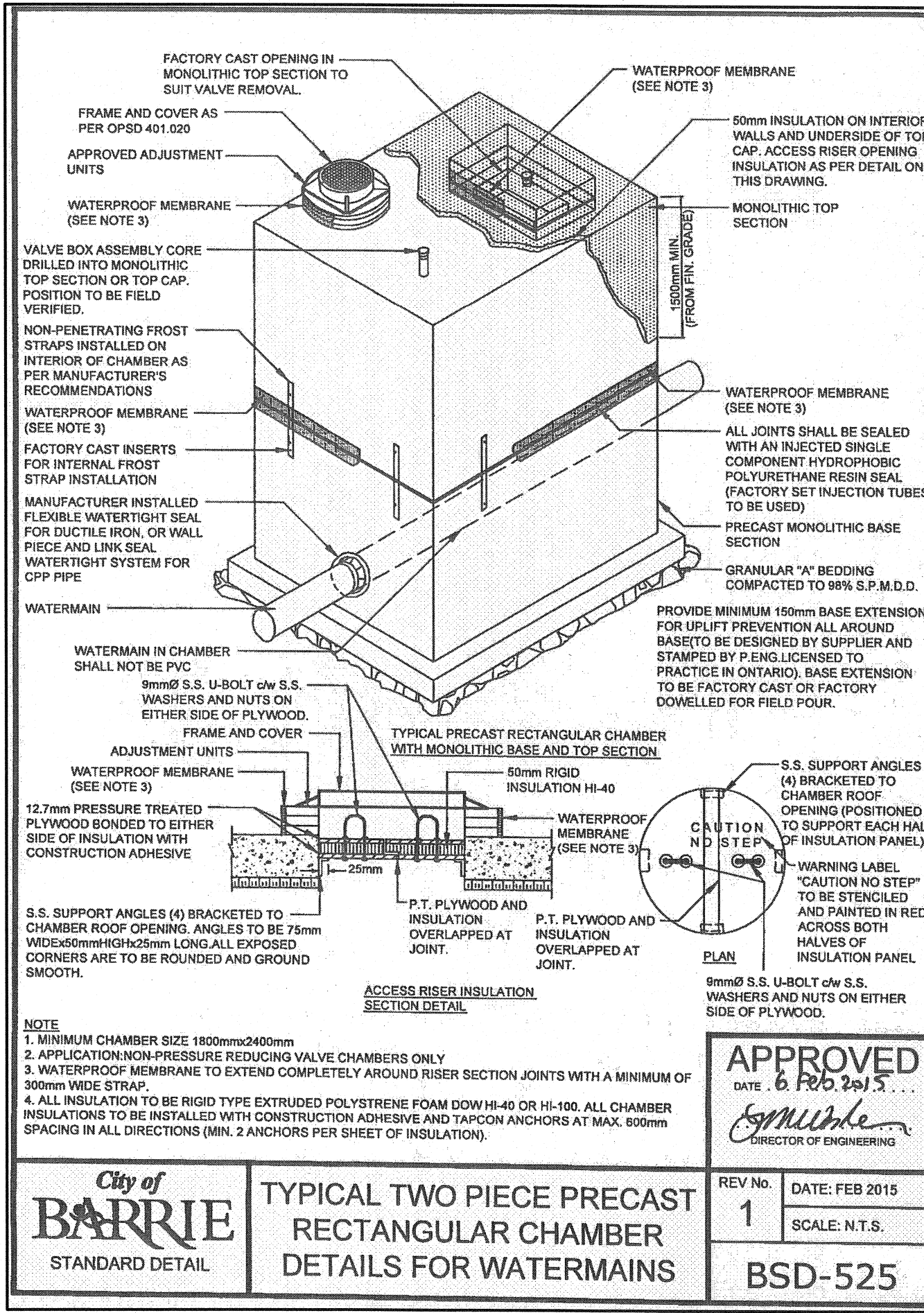
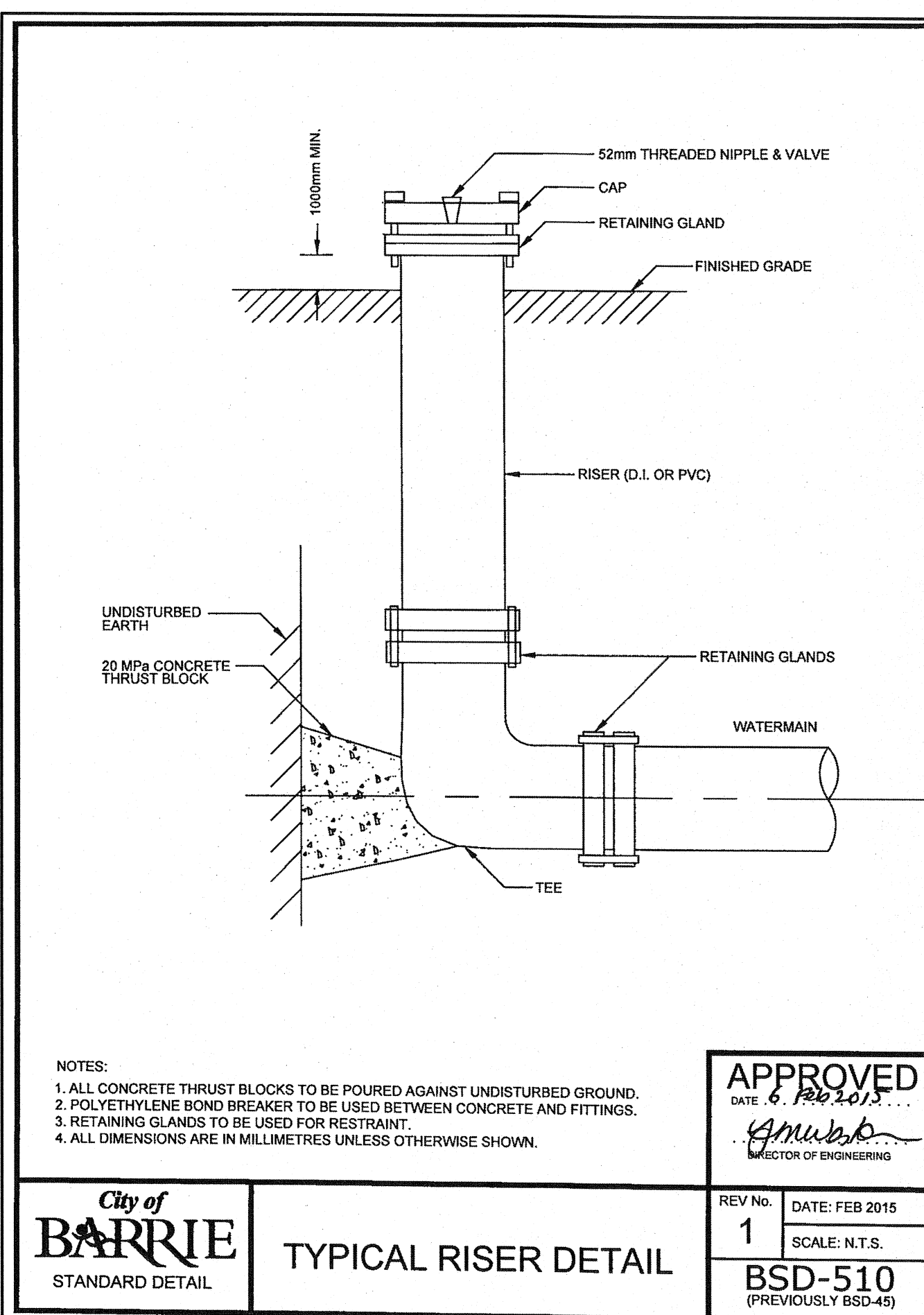
PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

STANDARD DETAILS



DESIGN	JH	SCALE: N/A	DATE	JULY 2017
DRAWN	JH	PROJECT	DWG. NO	
CHECKED	DR	PRA-17021	DET-3	

229 Mapleview Dr. E. Unit 1
 Barrie, ON L4N 0W5
 P. 705.734.2638
 F. 705.734.1058



ACO DRAIN

SlabDrain - H300SK-13 iron edged channel system with slotted grate

H300SK-13

Outlet flow rates

Product	Outlet size (Sch. 40)	Invert Depth	GPM	CFS
H300SK-13 channel	6" round	4.00	243	0.54
H300SK-13 channel	8" round	4.00	432	0.96

Note: These are the pipe flow rates at the specified outlet, NOT channel flow rates.

APR 13/1

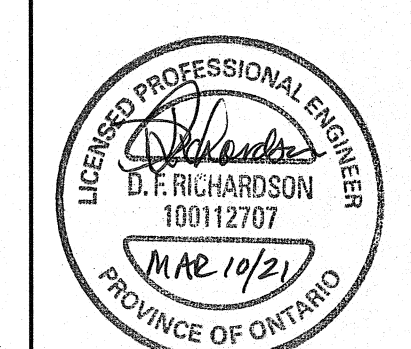
www.ACODrain.us

ACO

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FINAL APPROVED PLAN
File: D11-017-2017
Date: August 12, 2021
No. of Pages: 1

BENCHMARK:		7	SITE PLAN AMENDMENT	21-03-08	DR
BENCHMARK NO: 0101985454 LOCATED ON CONCRETE BRIDGE CARRYING MAPLEVIEW DRIVE E OVER LOVER'S CREEK, 0.50km EAST OF HURONIA ROAD. TABLET IS SET HORIZONTALLY IN THE NORTH FACE, 5.40m NORTH OF CENTRELINE OF ROAD, 20cm WEST OF THE NORTHEAST END OF BRIDGE, 19cm TOP OF COPING. N4910788.889 E567264.100 ELEV 241.861		6	FIFTH SUBMISSION	19-11-13	DR
BENCHMARK NO: 0312030029 MAPLEVIEW HEIGHTS ELEMENTARY SCHOOL - 180 ESTHER DR. THE VERTICAL MONUMENT IS SET FLUSH IN CONCRETE FLAGPOLE BASE 4.7m SOUTH FROM THE SOUTHEAST CORNER OF THE MAIN ENTRANCE TO SCHOOL, AND TABLET IS ON THE SOUTHSIDE OF THE FLAGPOLE BASE. N4911610 E807789 ELEV 250.508		5	FOURTH SUBMISSION	19-08-30	DR
BENCHMARK NO: 0312080054 LOCATED ON THE SOUTH LIMIT OF MAPLEVIEW DRIVE WEST APPROXIMATELY 10m EAST OF HURONIA ROAD. N4910788.889 E567264.100 ELEV 241.861		4	THIRD SUBMISSION	19-05-24	DR
BENCHMARK NO: 03120110013 LOCATED ON LOOKHART ROAD ON THE NORTH SIDE OF THE BOULEVARD, APPROXIMATELY 1.02km WEST OF THE YONGE STREET AND HURONIA ROAD INTERSECTION. N49009876.297 E568733.580 ELEV 252.897		3	SECOND SUBMISSION	19-01-11	DR
NO.	REVISIONS	DATE	INITIAL		



PRATT HANSEN GROUP INC.
BISTRO 6
CITY OF BARRIE

STANDARD DETAILS

JONES CONSULTING GROUP LTD.
PLANNERS & ENGINEERS

229 Mapleview Dr. E, Unit 1
Barrie, ON L4N 0W5
P. 705.734.2538
F. 705.734.1058

DESIGN	JH	SCALE: N/A	DATE	JULY 2017
DRAWN	JH	PROJECT	DWG. NO	
CHECKED	DR	PRA-17021	DET-4	