

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.

Do not scale this drawing.

REVISIONS AND ISSUES

1 ISSUED FOR REVIEW JUNE 2021 HW
2 ISSUED FOR CLASS B COSTING JULY 16 2021 HW
3 ISSUED FOR TENDER AUGUST 25 2021 HW

DESCRIPTION

4 ISSUED FOR BUILDING PERMIT SEPTEMBER 9 2021 HW
5 ISSUED FOR CIVIL ADDENDUM 1 SEPTEMBER 17 2021HW

7 REVISED BP & TENDER SUBMITTAL JANUARY 20 2022 HW

REVISED FOR BUILDING PERMIT OCTOBER 07 2021 HW

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DRTH ARROW

PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

DRAWING TITLE

CONSTRUCTION GRADING & SERVICING PLAN

1:200

JUNE 16, 2021

PROFESSIONAL CIR.



PROJECT NUMBER

2102
DRAWING NUMBER

C - 01

- <u>GENERAL NOTES:</u> THE LOCATION OF UTILITIES IS APPROXIMATE ONLY AND SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL PROVE THE LOCATION OF UTILITIES AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION AGAINST DAMAGE.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY ALL DIMENSIONS AND INVERTS/OBVERTS FOR STORM (INCLUDING SUBDRAIN), SANITARY AND WATER SERVICE CONNECTIONS. THE CONTRACTOR IS ALSO RESPONSIBLE TO VERIFY ALL EXISTING ROAD AND PROPOSED FINISHED GRADES FOR THE SITE. IF THERE IS ANY DISCREPANCY, THE CONTRACTOR SHALL INFORM THE ENGINEER IMMEDIATELY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE TO CONTROL AND CLEAN ANY MUD AND DEBRIS TRACKED ONTO PUBLIC ROADWAYS. DUST SHALL BE SWEPT AND/OR CONTROLLED BY WATER AS REQUIRED.
- 4. ALL WORKS TO BE COMPLETED IN ACCORDANCE WITH THE LATEST ONTARIO PROVINCIAL STANDARDS AND SPECIFICATIONS (OPSS).
- 5. THE CONTRACTOR IS RESPONSIBLE

- FOR LOCATING AND PROTECTING ALL EXISTING UTILITIES PRIOR TO AND DURING CONSTRUCTION.
- 6. THE CONTRACTOR IS TO PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE TOWNSHIP OF NORTH KAWARTHA AND COUNTY OF PETERBOROUGH PRIOR TO UNDERTAKING ANY WORK WITHIN THE MUNICIPAL ROAD ALLOWANCE.
- 7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL AND SAFETY MEASURES IN ACCORDANCE WITH OTM BOOK 7, INCLUDING THE SUPPLY, INSTALLATION AND REMOVAL OF ALL NECESSARY SIGNAGE, DELINEATORS, AND BARRIERS
- 8. FOR ANY LANE OR ROAD CLOSURES. THE PERIOD OF CLOSURE SHALL BE AS SHORT AS POSSIBLE TO COMPLETE THE WORK AND THE CONTRACTOR SHALL PREPARE AND SUBMIT A SCHEDULE AND A TRAFFIC CONTROL PLAN TO THE TOWNSHIP OF NORTH KAWARTHA AND COUNTY OF PETERBOROUGH A MINIMUM OF FOUR WEEKS PRIOR TO ANY CLOSURE. CLOSURES ARE SUBJECT TO APPROVAL BY THE TOWNSHIP AND COUNTY.
- 9. ALL CONSTRUCTION WORK IS TO BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE OCCUPATIONAL HEALTH AND SAFETY ACT AND REGULATIONS

- FOR CONSTRUCTION PROJECTS.
- 10. EXISTING ELEVATIONS HAVE BEEN
- 11. ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- 12. THE CONTRACTOR SHALL PROVIDE ALL DEWATERING REQUIRED TO INSTALL THE SERVICES SHOWN ON DRAWINGS AS NOTED IN GEOTECHNICAL REPORT. DEWATERING SHALL BE COMPLETED IN ACCORDANCE WITH OPSS.MUNI 517 TO MAINTAIN A STABLE SUBGRADE AND ALLOW COMPACTION OPERATION TO BE COMPLETED AS SPECIFIED. ALL DISTURBED SUPPORTING SUBGRADES RESULTING FROM THE CONTRACTORS OPERATIONS AND/OR INADEQUATE GROUNDWATER CONTROL SHALL BE CORRECTED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNERS. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE CONSULTANT AND AWAIT

APPROVAL BEFORE STARTING ANY

WORK. ANY ADDITIONAL EXCAVATION

AND BACKFILL REQUIRED DUE TO

IMPROPER DEWATERING SHALL BE

13. FOR ALL NEW CONSTRUCTION. EXCAVATE TO SUBGRADE ELEVATION. ALL EXISTING BUILDING FOUNDATIONS ENCOUNTERED BELOW ASPHALT PAVING OR SIDEWALKS SHALL BE REMOVED TO

PAID BY THE CONTRACTOR.

- 1. SEWERS AND STRUCTURES TO BE INSTALLED IN ACCORDANCE

WITH OPSS.MUNI 410 AND 407.

- 2. TRENCHING, BACKFILLING AND COMPACTING TO BE IN ACCORDANCE WITH OPSS.MUNI 401 AND 402.
- 3. SANITARY AND STORM SEWER PIPE MATERIAL AND BEDDING TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART
- 4. ALL BEDDING AND COVER MATERIAL TO BE GRANULAR 'A' COMPACTED TO 95% SPMDD.
- 5. SUBDRAINS TO BE PLACED IN ACCORDANCE WITH OPSS.MUNI 405 AND AT A MINIMUM GRADE OF 0.50%.
- 6. CATCHBASINS TO BE OPSD 705.010. (SUMPS FOR ABOVE TO BE AS SHOWN ON SITE SERVICING PLAN).

MAINTENANCE HOLES AND

CATCHBASIN MAINTENANCE HOLES TO BE OPSD 701.010 (SUMPS TO BE AS SHOWN ON SITE SERVICING PLAN). STEPS TO BE OPSD 405.010. ALL MAINTENANCE HOLES TO BE EQUIPPED WITH FROST STRAPS IN ACCORDANCE WITH OPSD 701.100 INSTALLED WITH QUICK ANCHORS.

- 8. CATCHBASIN AND CATCHBASIN MAINTENANCE HOLES TO HAVE FRAME AND GRATES IN ACCORDANCE WITH OPSD
- 400.020. MAINTENANCE HOLE TO HAVE FRAME AND COVER IN

ACCORDANCE WITH OPSD

401.010, TYPE A.

- 10. CATCHBASIN AND MANHOLE ADJUSTMENTS TO BE IN ACCORDANCE WITH OPSS 408.
- 11. ALL INSTALLED SANITARY AND STORM SEWERS TO BE INSPECTED BY CCTV EQUIPMENT IN ACCORDANCE WITH OPSS.MUNI 409.
- 12. THE CCTV INSPECTION OF THE EXISTING 450¢ CSP SEWER SHALL BE CARRIED OUT IN ACCORDANCE WITH OPSS. MUNI 409. THE REPORT SHALL BE PROVIDED TO THE CONTRACT ADMINISTRATOR AT THE COMMENCEMENT OF CONSTRUCTION.
- 13. THE CONTRACTOR IS RESPONSIBLE FOR SUPPLYING EXTRA BEDDING AND/OR STRONGER PIPE IF ACTUAL TRENCH WIDTH EXCEEDS DESIGN WIDTH PIPE CLASS BASED ON TRENCH CONDITION.

- 14. RESTORATION BEYOND LIMITS OF SITE GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 492.
- 15. SEWER BACKFILL TO BE SELECT NATIVE MATERIAL.
- 16. THE CONTRACTOR SHALL CLEAN OUT ALL NEW CATCH BASINS AND MANHOLES FOLLOWING PLACEMENT AND FLUSH ALL STORM SEWER PIPES BETWEEN THESE STRUCTURES.
- 17. INSTALLATION OF THE SANITARY HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BEDDING, BACKFILL, AND APPLYING A MASTIC BAND TO ALL JOINTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASE.
- SHALL BE INSTALLED WITH A SEPTIC SITTER ALARM SYSTEM OR APPROVED EQUIVALENT. THE SYSTEM SHALL INCLUDE THE SENSOR IN THE TANKS. THE PANEL/HUB INSIDE THE BUILDING, AND ALL REQUIRED CABLING AND DUCT. RIGID PVC DUCT FOR CABLING SHALL BE TYPE DB2 (CSA C22.2 No. 211.1).

18. SANITARY HOLDING TANKS

- WATER SERVICE NOTES:
  - WATER SERVICE TO BE INSTALLED IN ACCORDANCE WITH OPSS.MUNI 441.
  - 2. WATER SERVICE TO BE LAID AT 2.0m MINIMUM COVER BELOW FINISHED GRADE.
  - 3. WATER SERVICE PIPE MATERIAL TO BE AS SHOWN IN THE PIPE CLASS AND BEDDING CHART.
  - 4. WATER SERVICE MUST HAVE A MINIMUM VERTICAL CLEARANCE OF 0.50m FROM SEWERS WHEN CROSSING OR IN JOINT TRENCH.
  - 5. WATER SERVICE TO BE SWABBED, PRESSURE TESTED, DISINFECTED, AND BACTERIALOGICALLY TESTED BY A QUALIFIED THIRD PARTY IN ACCORDANCE WITH OPSS, MECP, AND TOWNSHIP OF NORTH KAWARTHA ENGINEERING STANDARDS.
  - 6. WATER SERVICE TO BE EQUIPPED WITH WHITE 12 AWG SOLID PLASTIC COVERED TRACER WIRE, TW4 75°C 600V.
  - 7. WATER SERVICE BACKFILL TO BE SELECT NATIVE MATERIAL
  - 8. DRY HYDRANT SHALL BE INSTALLED WITH A 150mm NIOSH FEMALE THREADED ADAPTER.
  - 9. INSTALLATION OF THE FIRE WATER HOLDING TANKS SHALL CONFORM TO MANUFACTURER'S INSTRUCTIONS, INCLUDING BEDDING, BACKFILL, AND APPLYING A MASTIC BAND TO ALL JOINTS. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW PRIOR TO PURCHASE.
  - 10. THE WELL DRILLING WORK SHALL INCLUDE THE SUPPLY AND INSTALLATION OF THE WELL, PUMP, 50mm POTABLE WATER SERVICE LINE, AND ELECTRICAL CABLING FOR THE PUMP. REFER TO MECHANICAL DRAWINGS FOR LOCATION OF WORK INSIDE THE BUILDING. FINAL CONNECTION OF ALL ELECTRICAL CABLES SHALL BE COMPLETED BY A CERTIFIED ELECTRICIAN. THE WELL AND EQUIPMENT SHALL BE DRILLED AND SIZED TO PROVIDE 40qpm

#### GRADING NOTES

- CLEARING AND GRUBBING TO BE IN ACCORDANCE WITH OPSS.MUNI
- 2. GRADING TO BE IN ACCORDANCE WITH OPSS.MUNI 206.
- REMOVALS TO BE CARRIED OUT IN 11. RIP-RAP TO BE IN ACCORDANCE ACCORDANCE WITH OPSS.MUNI
- 4. EXCESS MATERIALS TO BE MANAGED IN ACCORDANCE WITH OPSS.MUNI 180.
- SUBGRADE TO BE COMPACTED TO 95% SPMDD. IN ACCORDANCE WITH OPSS.MUNI 501.
- 6. GRANULAR 'B TYPE 1' SUBBASE AND GRANULAR 'A' BASE TO BE IN ACCORDANCE WITH OPSS.MUNI 314 AND OPSS.MUNI 1010, COMPACTED TO 100% SPMDD IN ACCORDANCE WITH OPSS.MUNI
- . HOT MIX ASPHALT TO BE IN ACCORDANCE WITH OPSS.MUNI 310 AND 1150, COMPACTED TO 92% MAXIMUM RELATIVE DENSITY.
- 8. ASPHALT BINDER TO BE PGAC 58-34 IN ACCORDANCE WITH OPSS.MUNI 1003.

- 9. CONCRETE SIDEWALK TO BE IN ACCORDANCE WITH OPSS.MUNI.
- 10. CONCRETE BARRIER CURB TO BE 32MPa IN ACCORDANCE WITH OPSS.MUNI 353.
- WITH OPSS.MUNI 511.
- 12. PAVEMENT MARKING TO BE WATER-BORNE TRAFFIC PAINT IN ACCORDANCE WITH OPSS 710 AND 1716. ALL PAINT LINES SHALL RECEIVE A DOUBLE APPLICATION.
- 13. ALL SEDIMENT AND EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED IN ACCORDANCE WITH OPSS.MUNI 805, AND SHALL BE REMOVED FOLLOWING STABILIZATION OF ADJACENT SOILS.

#### SEDIMENT AND EROSION CONTROL:

1. SILT FENCE TO BE ERECTED ALONG THE DOWNSLOPE LIMIT OF CONSTRUCTION PRIOR TO START OF CONSTRUCTION.

A DEPTH BELOW SUBGRADE.

PROOF ROLL TO A CONSISTENT

IN-SITU DENSITY BASED ON A

MINIMUM OF THREE CONSECUTIVE

DENSITY TESTS. THE SUB-GRADE

SHALL BE INSPECTED BEFORE

ASPHALT IS BEING REPLACED

SHOWN IN THE DETAIL BELOW

ASPHALT THAT IS TO REMAIN.

SHALL BE SAWCUT ALONG

THE ASPHALT TO BE REMOVED

BESIDE EXISTING ASPHALT, A 0.5m

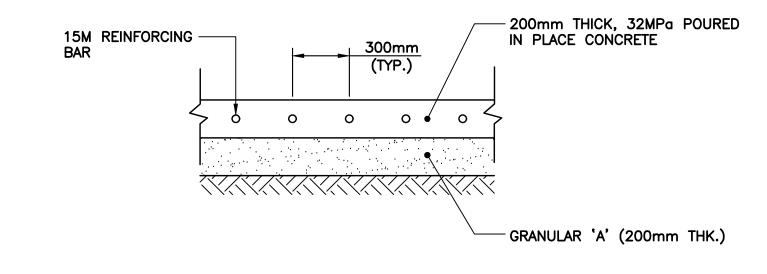
LAP JOINT SHALL BE MILLED AS

14. FOR ALL LOCATIONS WHERE

PLACING PAVEMENT STRUCTURE.

- 2. CONSTRUCT AND MAINTAIN SEDIMENT TRAPS UNTIL SITE HAS BEEN STABILIZED.
- 3. CONSTRUCT TEMPORARY INTERCEPTOR SWALES AND GRADE AS REQUIRED TO CONVEY SURFACE RUNOFF TO SEDIMENT TRAPS.
- 4. CONSTRUCT MUD MAT ON CONSTRUCTION ENTRANCE. MAT TO BE 30 m LONG, 8 m WIDE, AND 0.45 m DEEP CONSTRUCTED ON 100-200 mm DIAMETER CLEAR STONE. CONTRACTOR IS RESPONSIBLE FOR CLEANING THE ADJACENT ROAD OF ANY MUD WHICH IS TRACKED OFF-SITE.
- 5. SILT SACKS TO BE INSTALLED UNDER ALL CATCHBASIN GRATES IMMEDIATELY FOLLOWING INSTALLATION. SILT SACKS TO BE CLEANED/REPLACED REGULARLY AS REQUIRED TO MAINTAIN FLOW THROUGH THE GRATE.
- 6. CONTRACTOR IS RESPONSIBLE TO INSPECT, MAINTAIN, REPLACE, AND SUPPLEMENT SEDIMENT AND EROSION CONTROLS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE CONSTRUCTION SITE AND CONTROL ON AND OFF SITE EROSION.
- 7. FOLLOWING COMPLETION OF PARKING AREAS AND ENTRANCE ROADS. DESIGNATED LANDSCAPE AREAS ARE TO BE FINE GRADED, TOPSOILED, AND SEEDED.
- 8. FOLLOWING STABILIZATION OF THE SITE. THE FOLLOWING IS TO BE COMPLETED:
  - -THE STORM SEWER SYSTEM IS TO BE FLUSHED AND SEDIMENT REMOVED FROM ALL STRUCTURES.
  - -SILT FENCING TO BE REMOVED AND DISTURBED AREAS LANDSCAPED ACCORDINGLY.

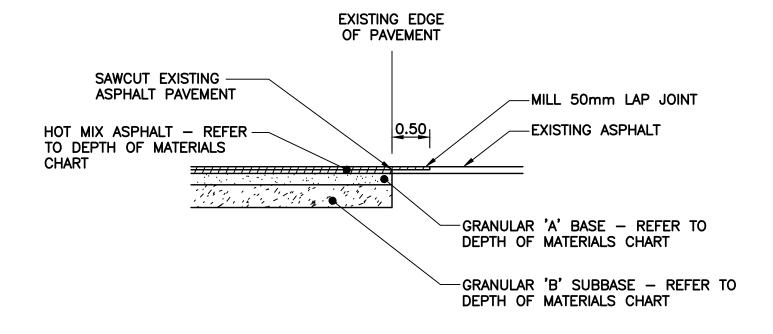
#### DEPTH OF MATERIALS HOT MIX ASPHALT GRANULAR (FULL WIDTH) SURFACE GRANULAR BASE | GRANULAR SUBBASE 50mm HL 3 50mm HL 8 150mm 'A' HEAVY DUTY ASPHALT



CONCRETE PAD FOR PROPANE TANK N.T.S.

SIGN LEGEND





PAVEMENT CONNECTION DETAIL

N.T.S.

#### PIPE CLASS & BEDDING:

#### STORM SEWER

PVC - CSA - B182.4 - CLASS 320 PE - CSA- B182.6 GRANULAR 'A' BEDDING IN ACCORDANCE WITH OPSD 802.010

## SANITARY SERVICE

PVC CAN/CSA - B182.2 - SDR 28 GRANULAR 'A' EMBEDMENT IN ACCORDANCE WITH OPSD 802.010

#### WATER SERVICE

CROSS-LINKED POLYETHYLENE TUBING - CSA B137.5 GRANULAR 'A' EMBEDMENT IN ACCORDANCE WITH OPSD 802.010

SUBDRAIN, TRENCH AND FOOTING DRAINS HDPE CORRUGATED, GEOTEXTILE WRAPPED

PROJECT TITLE NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY DRAWING TITLE NOTES AND DETAILS AS SHOWN JULY 12, 2021

Contractor must check and verify all dimensions on the job, and report any discrepancies to the Architect before proceeding with the work.

ISSUED FOR BUILDING PERMIT SEPTEMBER 9, 2021 HW

ISSUED FOR CIVIL ADDENDUM 1 SEPTEMBER 17, 2021 HV

REVISED BP & TENDER SUBMITTAL JANUARY 20 2022 HV

JUNE 2021 HV

AUGUST 25, 2021 HW

REVISIONS AND ISSUES

DESCRIPTION

ISSUED FOR REVIEW

ISSUED FOR TENDER

naclennan jaunkalns miller architects

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NORTH ARROW

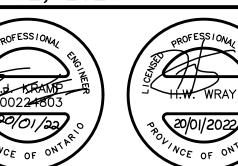
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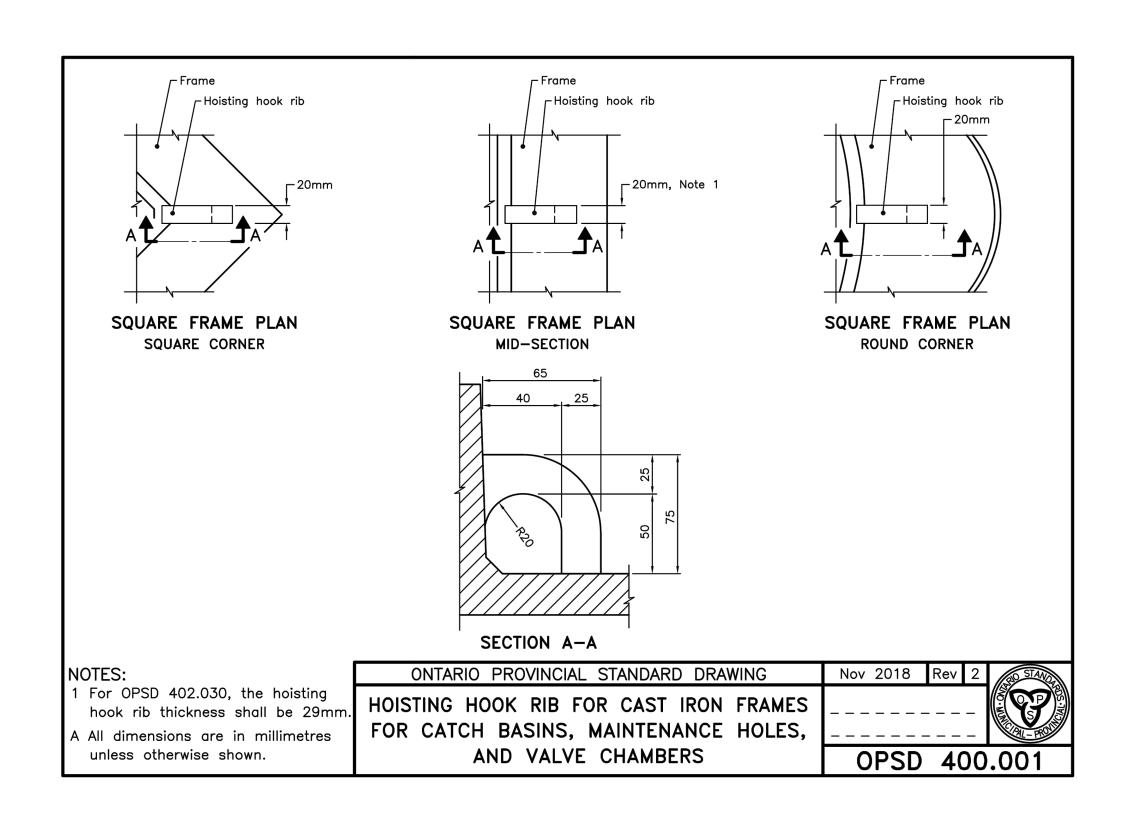
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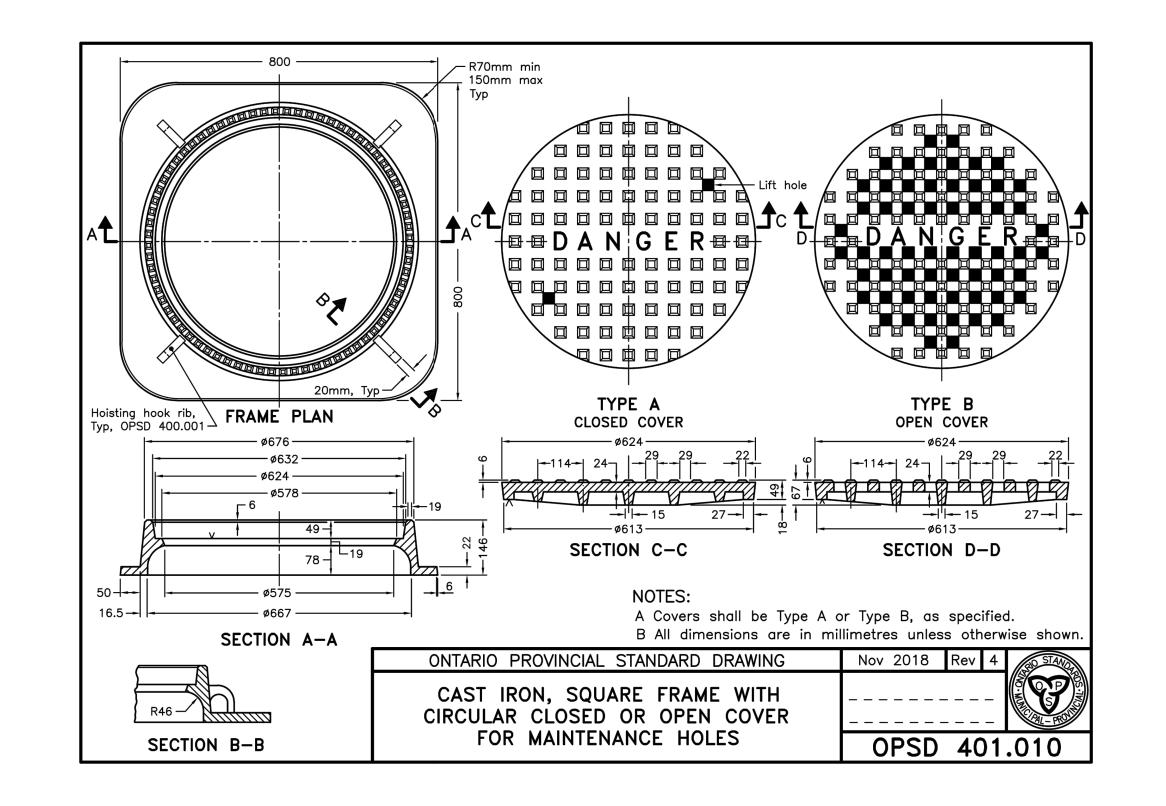
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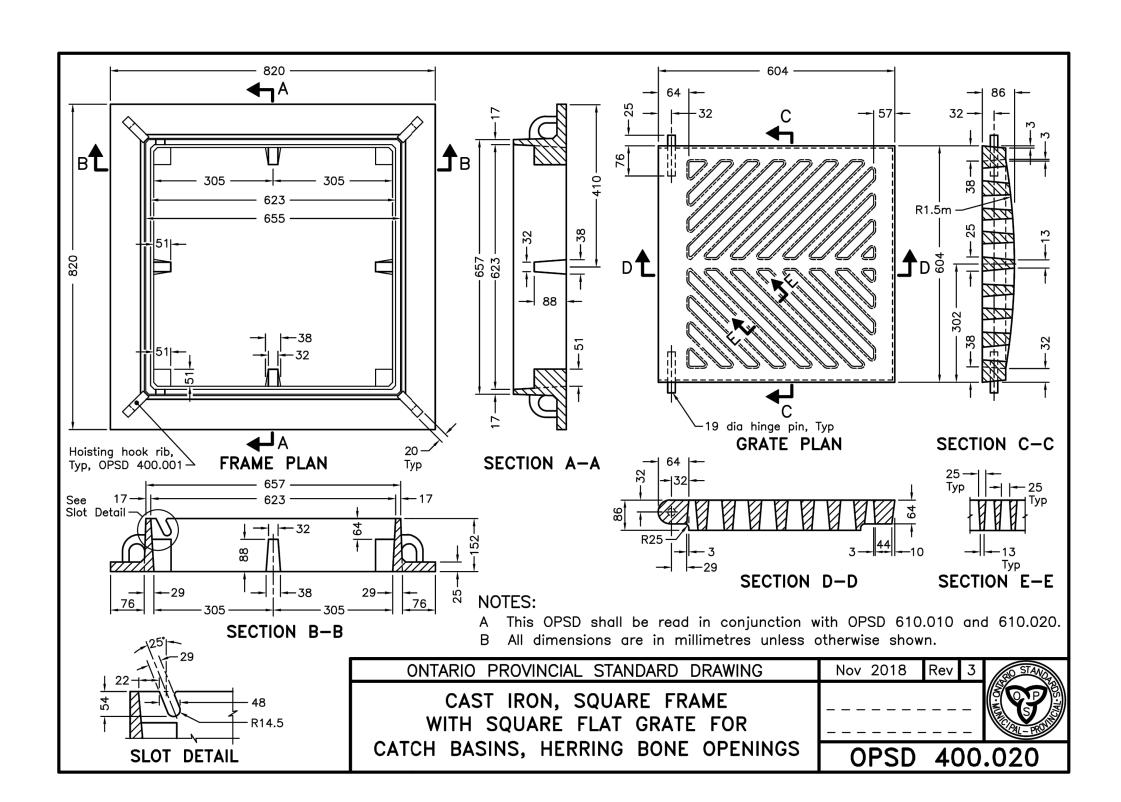


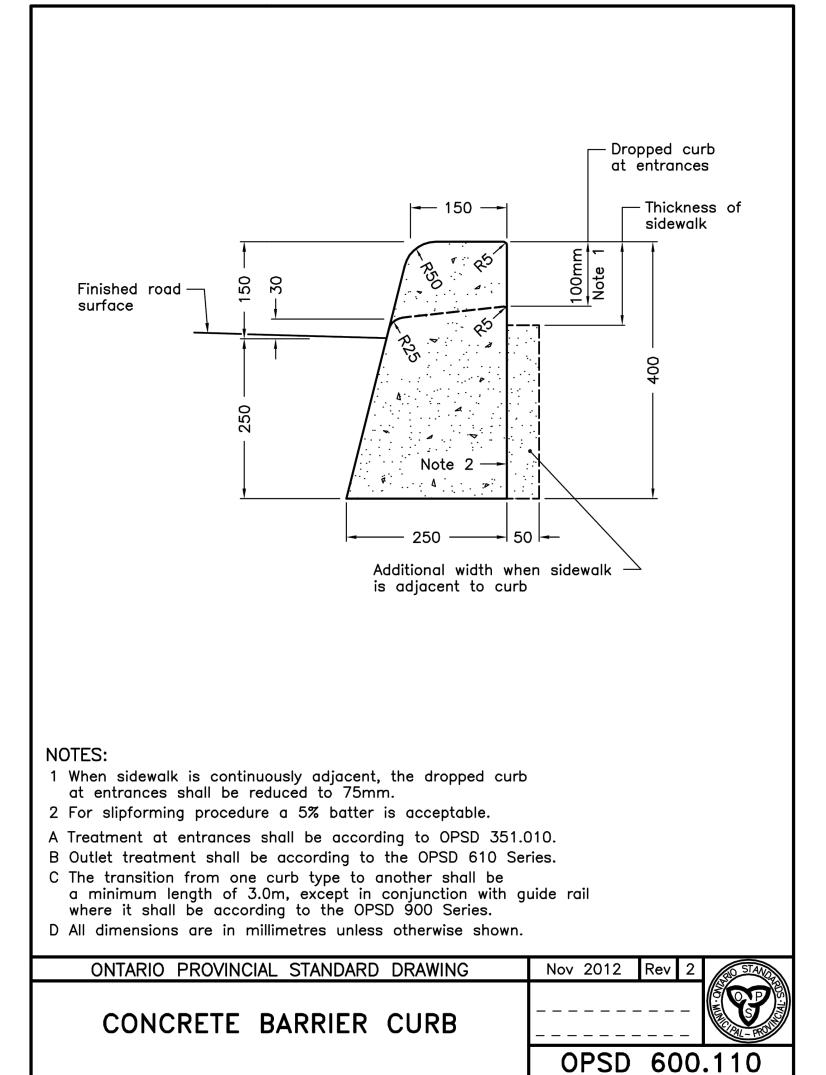
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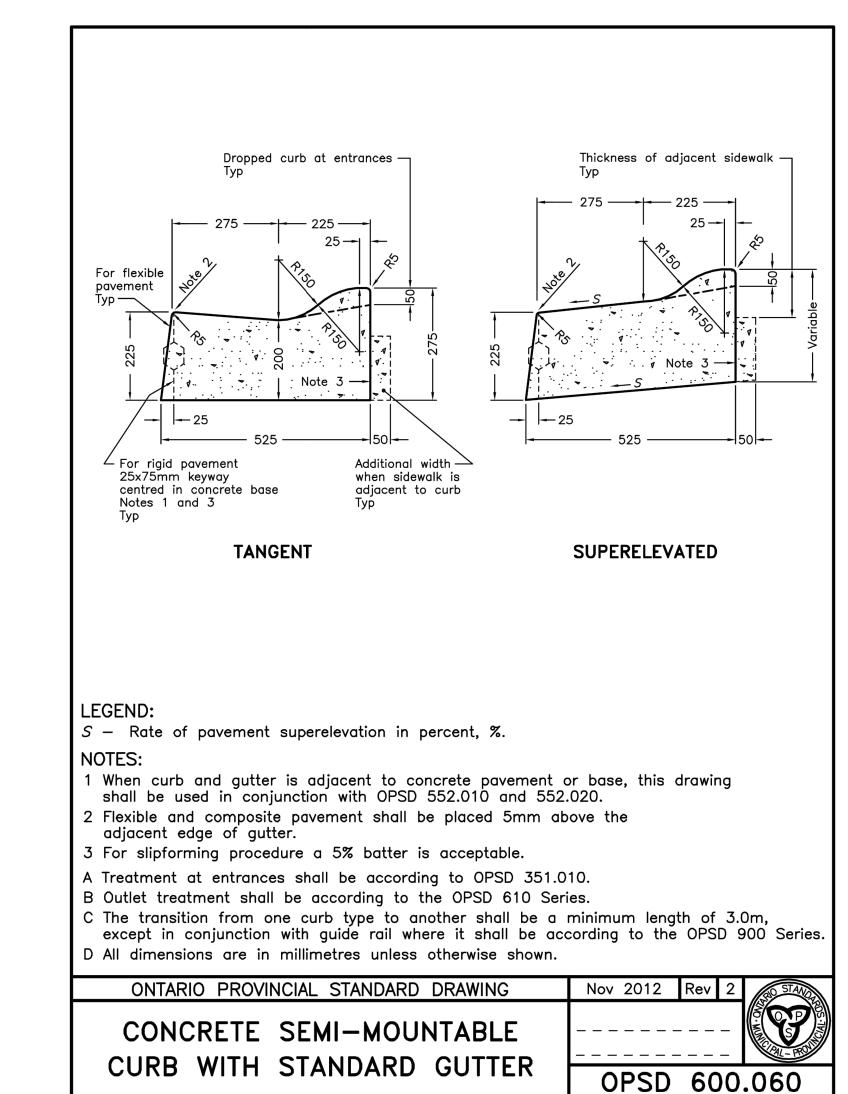
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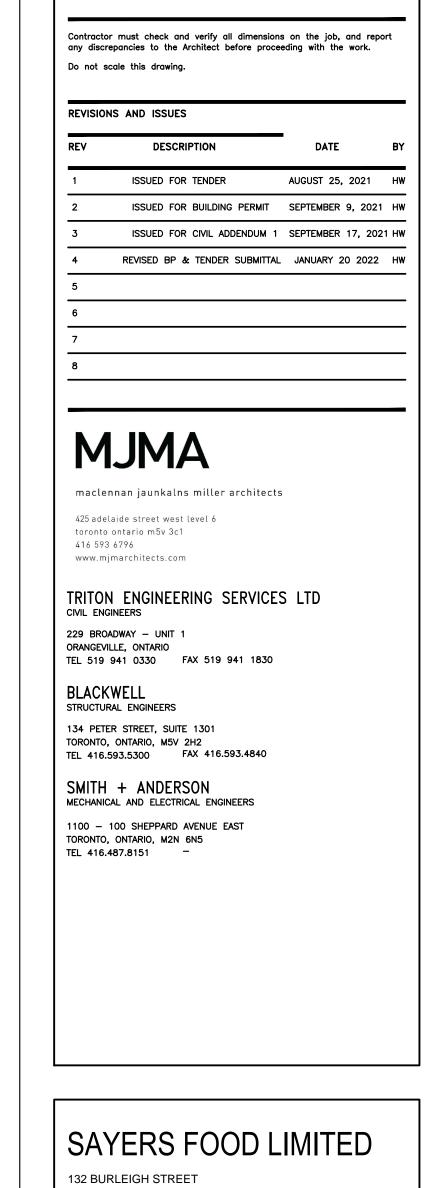










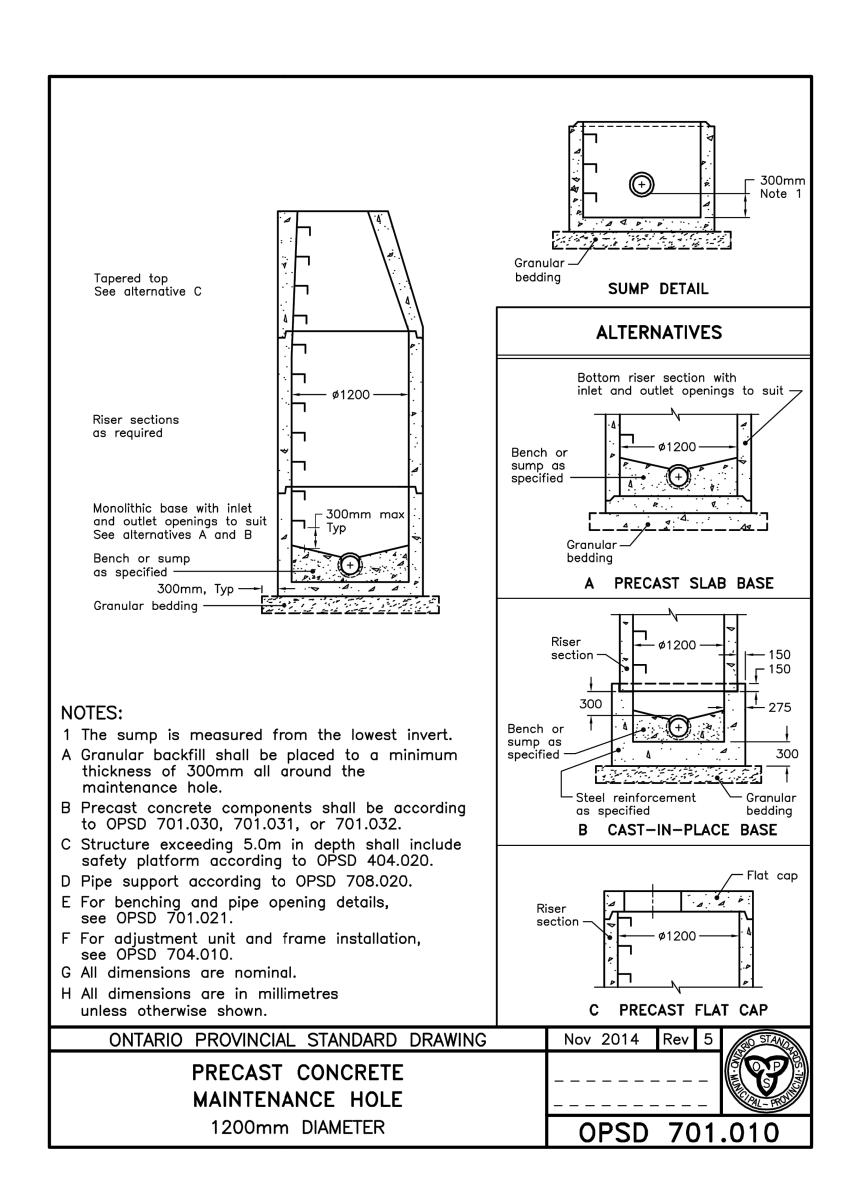


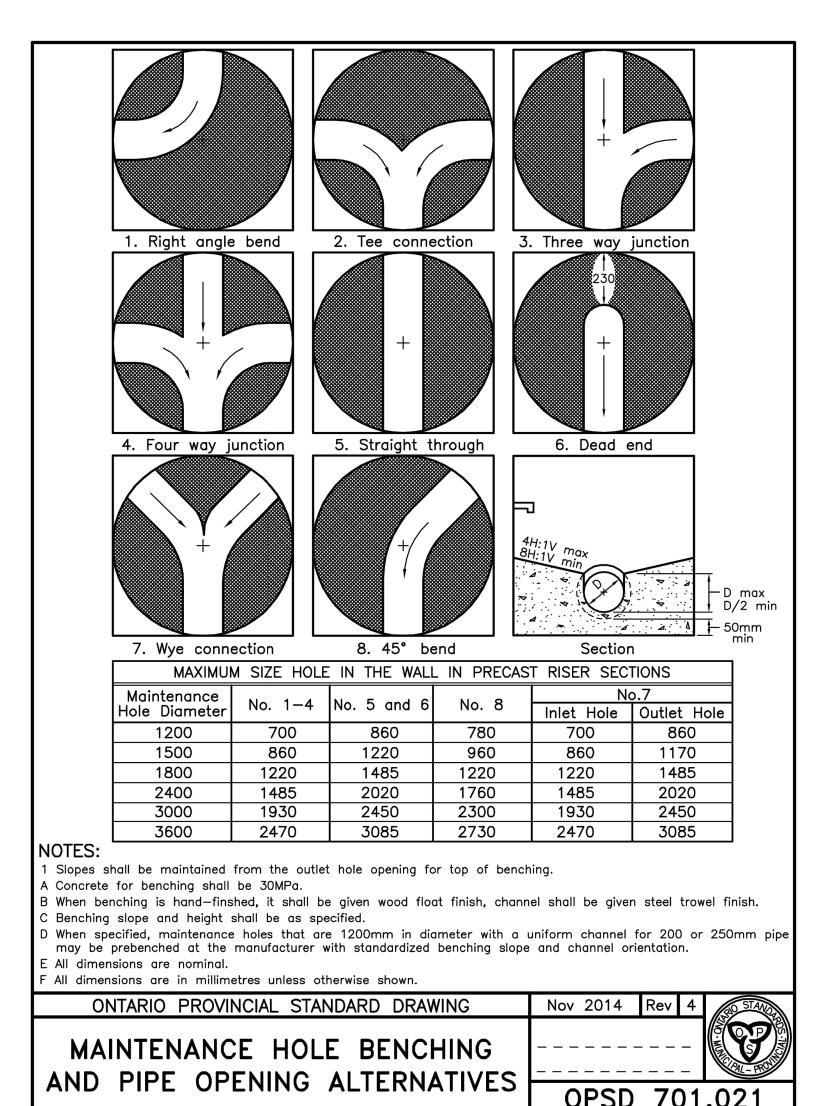


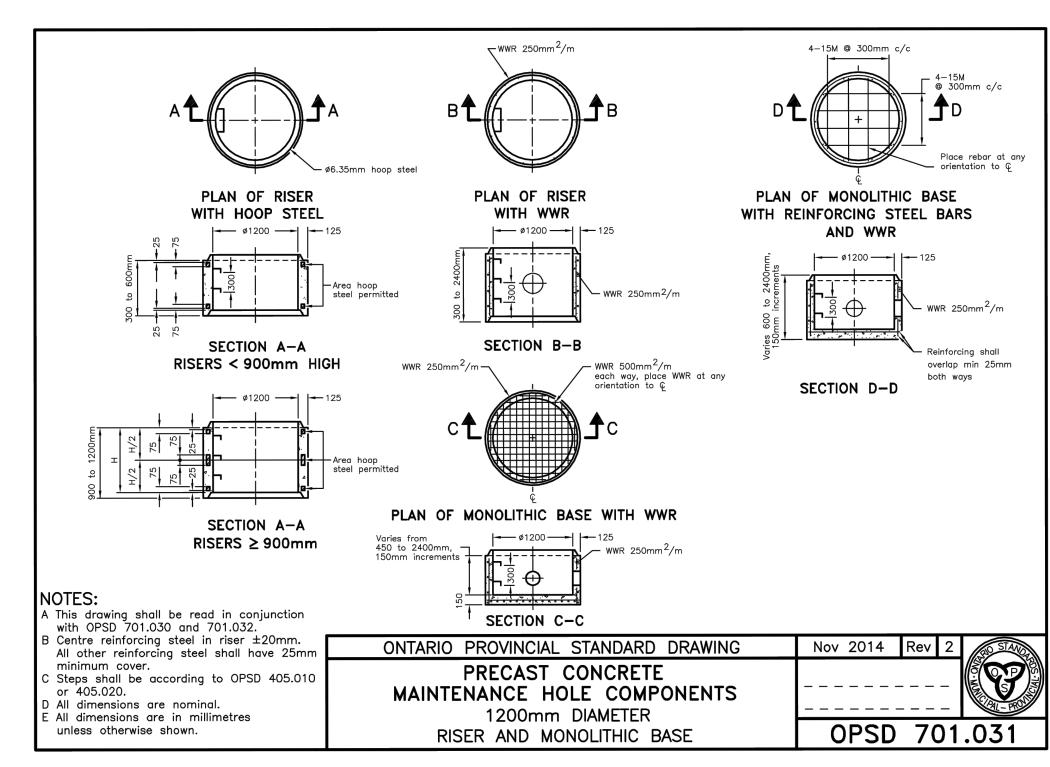
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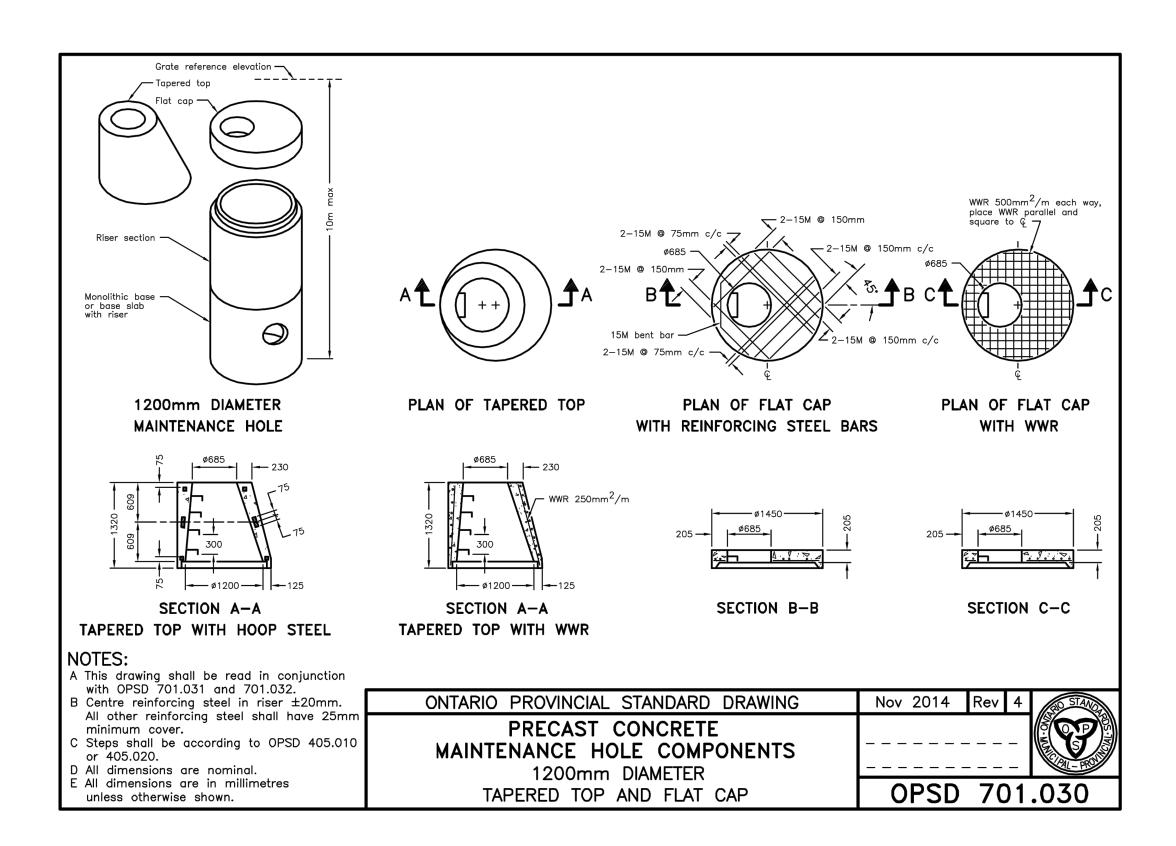
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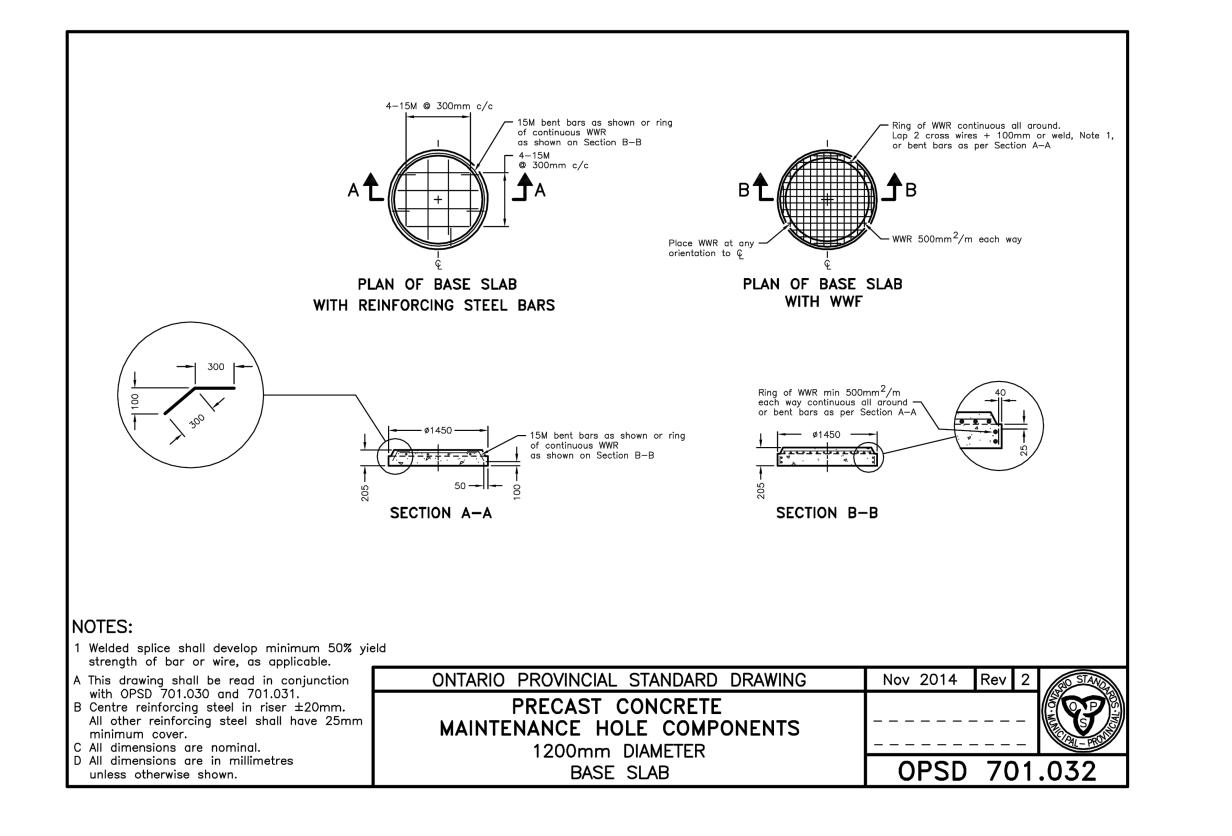
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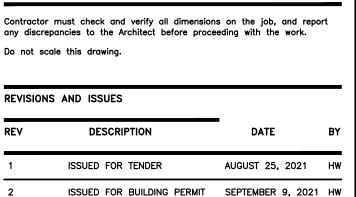












ISSUED FOR CIVIL ADDENDUM 1 SEPTEMBER 17, 2021 HW

REVISED BP & TENDER SUBMITTAL JANUARY 20 2022 HW

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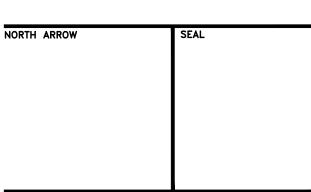
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#### PROJECT TITLE

NEW SAYERS FOOD STORE BURLEIGH STREET, APSLEY

#### DRAWING TITLE

STANDARDS

# AS SHOWN

AUGUST 24, 2021

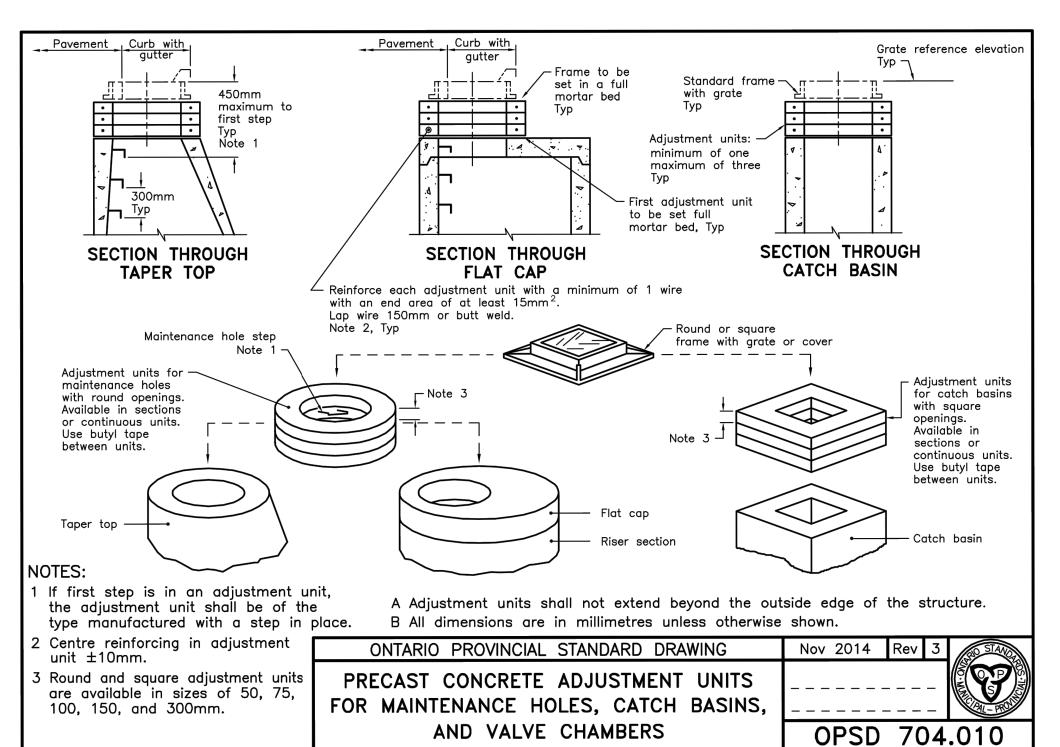


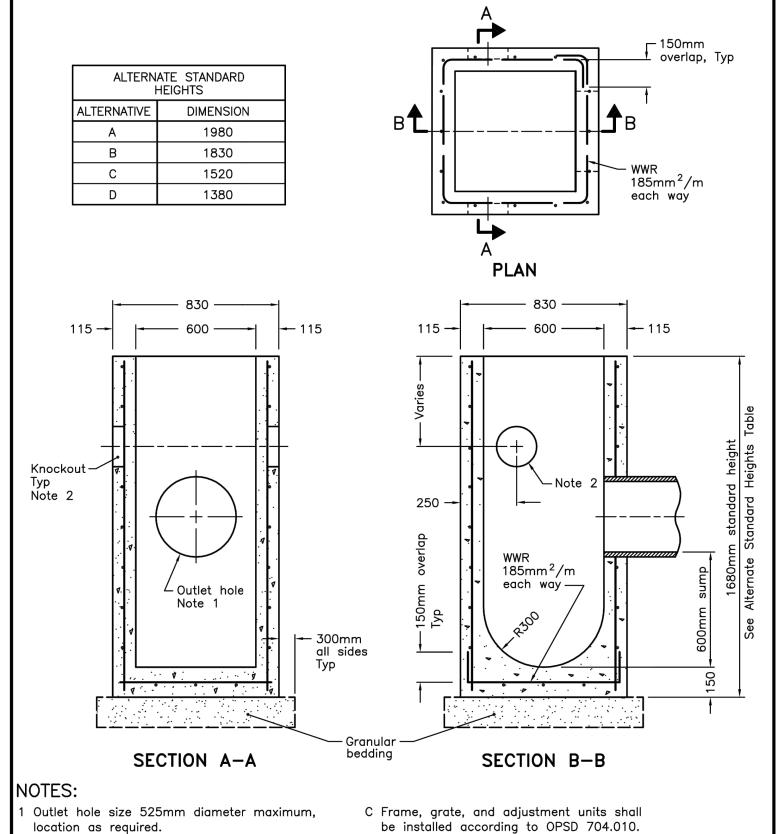


PROJECT NUMBER 2102

DRAWING NUMBER

C - 04





D Pipe support shall be according to OPSD 708.020.

Nov 2019 Rev 4

OPSD 705.010

E All dimensions are nominal.

unless otherwise shown.

F All dimensions are in millimetres

2 200mm diameter knockout to accommodate

subdrain. Knockout shall be 60mm deep.

Centre reinforcing in base slab and walls

ONTARIO PROVINCIAL STANDARD DRAWING

PRECAST CONCRETE CATCH BASIN

600x600mm

3 Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.

±20mm.

PIPE DIA mm	TRENCH WIDTH	MAXIMUM HEIGHT OF FILL				MINIMUM HEIGHT OF F
		320 kPa		RSC 160		All Pipe Classes
		Granular A	Granular B (Type I and II)		Granular B (Type I and II)	Granular B (Type I and II)
100	0.5	9.8	6.7	_	_	0.3
150	0.6	9.8	7.6	_	_	0.3
200	0.7	8.5	5.8	_	_	0.3
250	0.7	10.1	6.7	_	_	0.3
300	0.8	11.0	7.3	_	_	0.3
375	0.9	9.8	6.4	_	_	0.3
450	1.0	10.1	6.7	_	_	0.3
525	1.1	9.1	6.1	_	_	0.3
600	1.2	10.7	7.0	_	_	0.3
750	1.4	9.8	6.4	_	_	0.3
900	1.6	8.8	6.1	_	_	0.3
1050	1.8	_	-	6.1	4.3	0.3
1200	2.0	_	_	6.4	4.6	0.3
1500	2.4	_	_	6.4	4.3	0.6

- A The table applies to dual wall corrugated polyethylene gravity sewer pipe according to CSA B182.6 and CSA B182.8.
- B Pipe diameters 1050 to 1500mm are listed with a constant RSC 160 value for convenience. Minimum pipe stiffness values are listed in Table 3 of CSA B182.8.
- C Trench width is based on Class I compacted material for Granular A and Class II compacted material to 95% of the maximum dry density for Granular B.
- ) The table based on backfill density of 2243 kg/m³.
- The table presumes groundwater is at or below the springline of the pipe.
- <sup>7</sup> Minimum height of fill over the pipe is measured from bottom of flexible pavement or top of rigid pavement.
- G Maximum height of fill is measured from the finished surface to top of pipe. I This OPSD shall be read in conjunction with OPSD 802.010, 802.013 and 802.014.
- For height of fill and/or pipe sizes greater than shown, or for other design conditions, the values shall be calculated from first principles.

All dimensions are in metres

unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING HEIGHT OF FILL TABLE DUAL WALL CORRUGATED POLYETHYLENE GRAVITY SEWER PIPE - 320 kPa and RSC 160

Nov 2018 Rev 3 STAW OPSD 806.020

SAYERS FOOD LIMITED

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