

1. GENERAL
 1.1 USE BAR SCALE TO CONFIRM ACTUAL PLOT SCALE. EXISTING AND NEW ELEVATIONS AND INVERTS SHOWN ARE GEOMETRIC AND ARE IN METERS.
 1.2 EXISTING UTILITIES AND LOCATIONS, DEPTHS AND SIZES OF EXISTING SERVICES & UTILITIES SHALL BE SHOWN AS NOTED ON THE DRAWINGS. THE CONTRACTOR SHALL VERIFY THE LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO COMMENCING CONSTRUCTION. REPORT ANY DIFFERENCES TO ENGINEER.
 1.3 THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
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2. EROSION AND SEDIMENT CONTROL
 2.1 THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES TO PROVIDE PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATER COURSE DURING CONSTRUCTION ACTIVITIES. THIS INCLUDES LIMITING THE AMOUNT OF EXPOSED SOIL, INSTALLING SILT FENCES AND OTHER EFFECTIVE SEDIMENT TRAPS. THE CONTRACTOR SHALL ACKNOWLEDGE THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 2.2 PRIOR TO COMMENCEMENT OF CONSTRUCTION AT ALL MUNICIPAL CATCH BASINS, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
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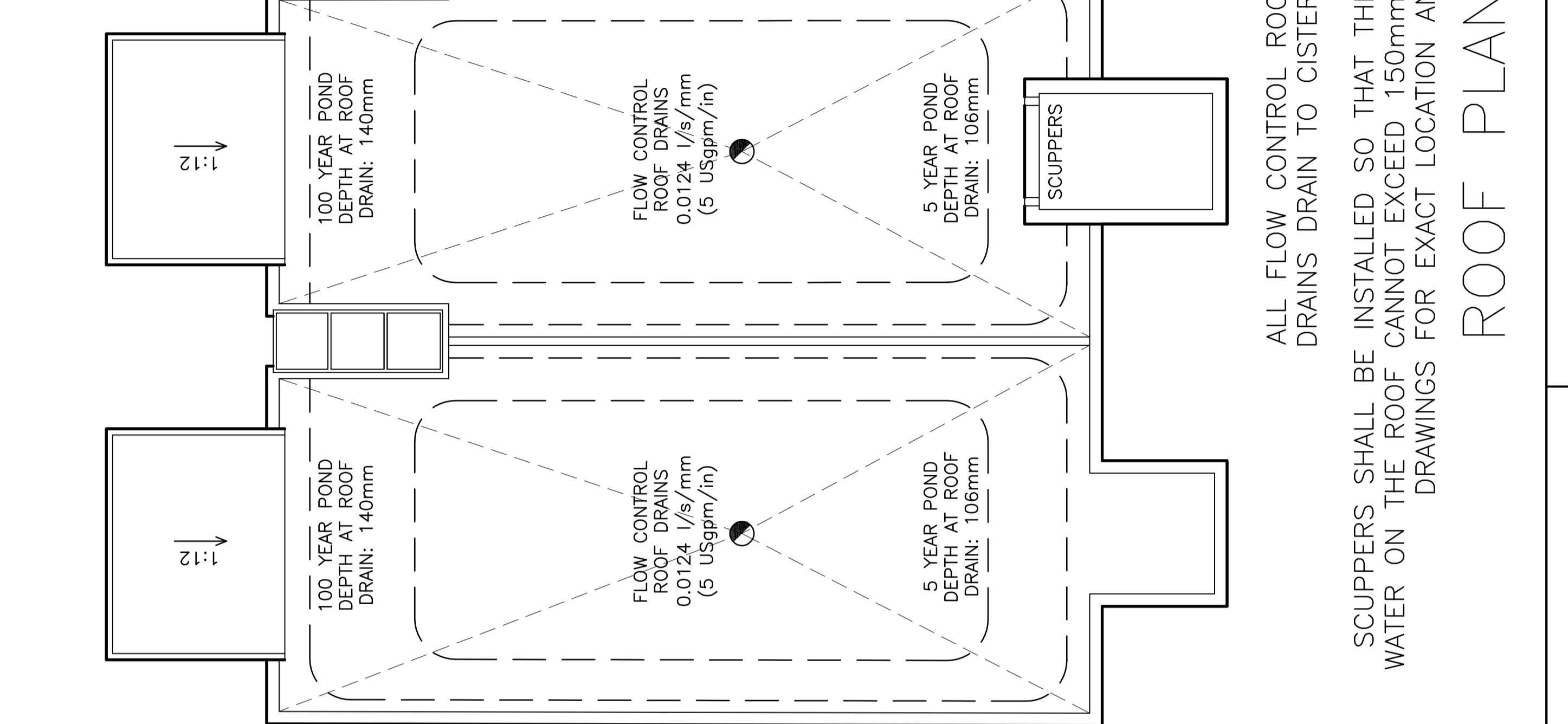
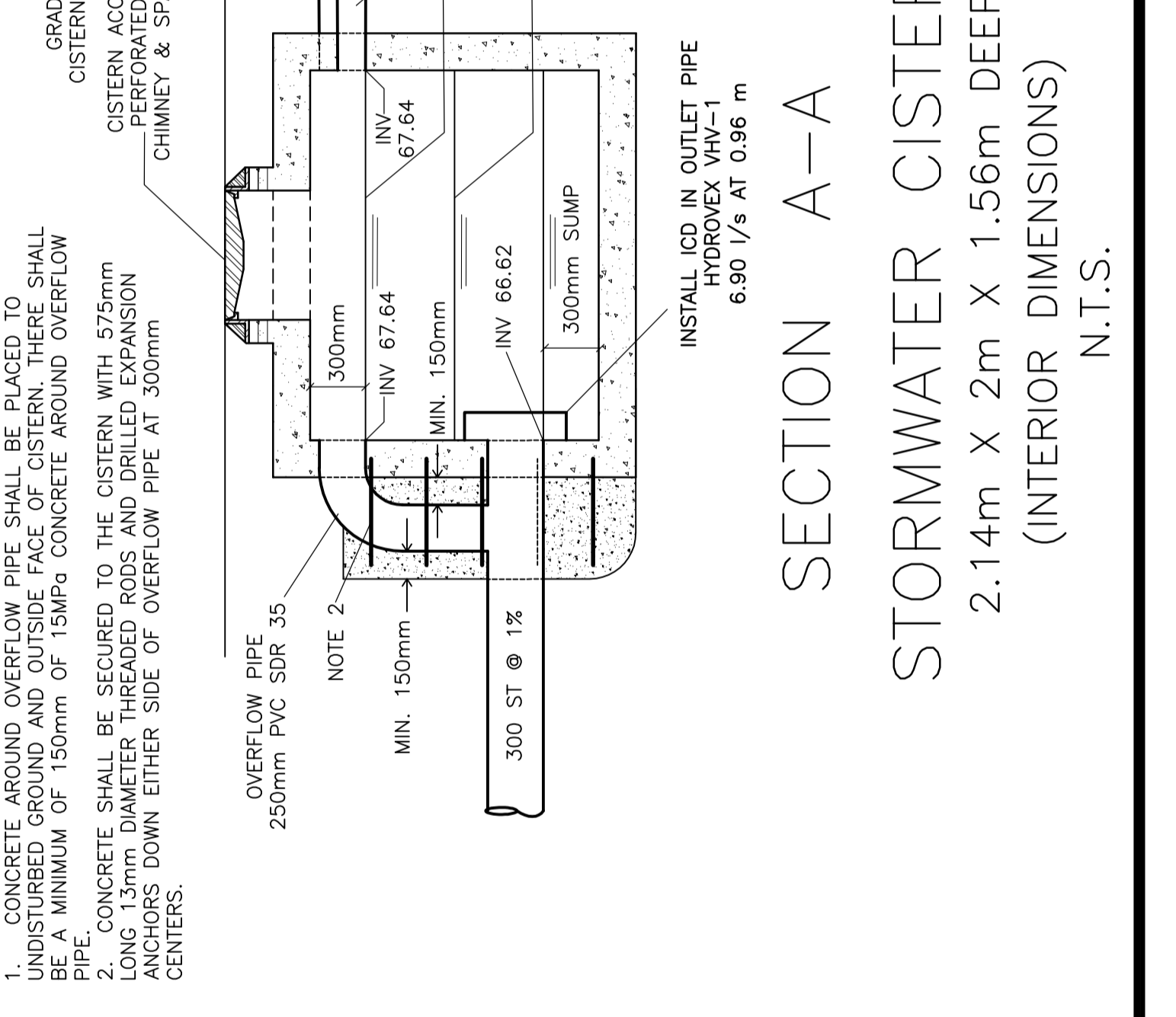
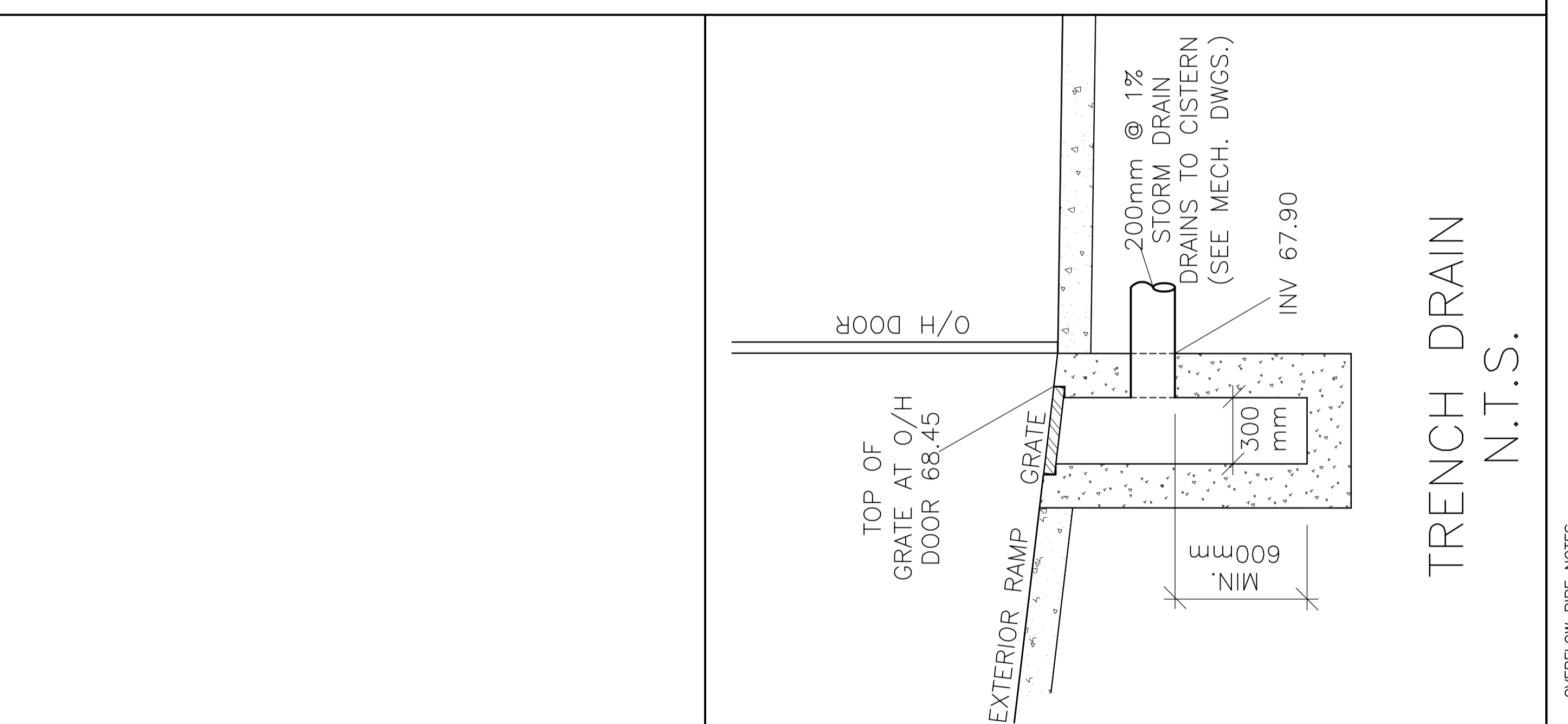
3. GRADING & DRAINAGE
 3.1 NEW GRADES TO MATCH EXISTING AT PROPERTY LINE. NO EXCESS DRAINAGE WILL BE DIRECTED TOWARDS THE ADJACENT PROPERTIES DURING AND AFTER CONSTRUCTION. THERE WILL BE NO ALTERATION TO EXISTING GRADE AND DRAINAGE PATTERNS ON ADJACENT PROPERTIES.
 3.2 ALL AREAS SHALL BE GRADED TO ENSURE ADEQUATE DRAINAGE AWAY FROM BUILDINGS TO CATCH BASINS, SWALES, DITCHES AND OTHER APPROVED DISPOSAL AREAS. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
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4. SITE SERVICES
 4.1 BLANK EXISTING WATER SERVICE CONNECTIONS SHALL BE MAINTAINED BY CITY FORCES. CONTRACTOR SHALL PROVIDE CONNECTIONS TO CITY WATERMAIN BY CITY FORCES.
 4.2 AT THE PROPERTY LINE INSTALL A WATERIGHT CAP AT ENDS OF EXISTING STORM AND SANITARY SEWERS CONNECTIONS TO BE ABANDONED.
 4.3 CONNECTION TO WATERMAIN BY CITY OF OTTAWA. CONTRACTOR SHALL PROVIDE WATER SERVICE MATERIALS AND CONNECTIONS TO CITY OF OTTAWA.
 4.4 WATER MAIN SHALL BE INSTALLED AS PER CITY OF OTTAWA DWG. NO. W31.
 4.5 ALL WATER SERVICE MATERIALS AND CONNECTIONS METHODS SHALL BE PEX TUBING TO AWMA C-904 SDR 9 (CTS).
 4.6 OVER WATER SERVICE CONNECTIONS, WHERE THE WATER SERVICE CONNECTION IS WITHIN 2.5 M HORIZONTAL DISTANCE OF THE SEWER CONNECTION, INSTALL WATER SERVICE CONNECTION SUCH THAT THE BOTTOM OF THE PARABOLIC SLOT, EACH SLOT SHALL RELEASE 5 USGPM/INCH. WATS ROOF DRAIN WITH VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.1.
 4.7 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
 4.8 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
 4.9 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
 4.10 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
 4.11 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
 4.12 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.
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 4.15 THE STORM BUILDING DRAIN SHALL BE INSTALLED WITH A BACKWATER VALVE TO CITY OF OTTAWA STANDARDS AND TO CITY OF OTTAWA DWG. NO. S14.

5. CONSTRUCTION
 5.1 PRIOR TO COMMENCING WORK:
 A. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 B. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 C. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 D. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 E. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 F. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 G. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 H. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 I. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 J. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 K. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 L. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 M. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 N. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 O. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 P. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 Q. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 R. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 S. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 T. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
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 V. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 W. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 X. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 Y. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.
 Z. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES.

5.8 CUT AND FILL AS NECESSARY TO ACHIEVE THE REQUIRED SUB-GRADE ELEVATION. DISPOSE OF SURPLUS AND UNSUITABLE EXCAVATED MATERIAL OFF SITE TO FILL MATERIAL. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE APPLICABLE AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.
 5.9 EXCAVATIONS SHALL BE MADE TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT. STOCKPILE GRANULAR AND FILL MATERIALS IN MANNER TO PREVENT SEGREGATION AND INTERMIXING.
 6. PAVEMENT
 6.1 PAVEMENT STRUCTURE:
 50mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
 150mm OPSS GRANULAR B TYPE II SUB-BASE
 300mm OPSS GRANULAR A BASE
 HEAVY DUTY PAVEMENT:
 40mm HL-3 OR SUPERPAVE 12.5 ASPHALTIC CONCRETE
 50mm HL-8 OR SUPERPAVE 19.0 ASPHALTIC CONCRETE
 150mm OPSS GRANULAR B TYPE II SUB-BASE
 450mm GRANULAR MATERIALS ARE NOT PERMITTED.
 ASPHALTIC CONCRETE SHALL BE PERFORMANCE GRADE PG68-34
 SHALL CONFORM TO THE GEOTECHNICAL INVESTIGATION TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
 6.2 REMOVE ALL MATERIALS TO THE SUB-GRADE LEVEL. REMOVE ORGANIC OR UNSUITABLE MATERIALS FROM SUB-GRADE WHERE ENCOUNTERED. DEBRIS, SNOW, ICE, WATER AND FROZEN GROUND. COMPACT SUB-GRADE TO 95%.
 6.3 CONSTRUCT GRANULAR BASE AND SUB-BASE TO DEPTH AND GRADE IN AREAS DESIGNATED FOR PAVEMENT. FIRST LAYER SHALL BE SUB-GRADE SURFACE AS A TRANSITION BETWEEN EXISTING PAVEMENT STRUCTURES AND BETWEEN PAVEMENT AND CURBS AND SIDEWALKS.
 6.4 ENSURE NO FROZEN MATERIAL IS PLACED. PLACE MATERIAL ONLY ON CLEAN UNFROZEN SURFACE, FREE FROM SNOW OR ICE.
 6.5 COMPACT SUB-GRADE MATERIAL TO DENSITY OF NOT LESS THAN 98% CORRECTED MAXIMUM DRY DENSITY. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED THICKNESS. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED THICKNESS.
 6.6 COMPACT SUB-GRADE MATERIAL TO DENSITY OF NOT LESS THAN 98% CORRECTED MAXIMUM DRY DENSITY. SHAPE EACH LAYER TO SMOOTH CONTOUR AND COMPACT TO SPECIFIED THICKNESS.
 6.7 IN AREAS NOT ACCESSIBLE TO ROLLING EQUIPMENT, COMPACT TO SPECIFIED DENSITY BY OTHER MEANS.
 6.8 REPLACE PAVEMENT DISTURBED BY CONSTRUCTION AND REPLACE WITH PAVEMENT STRUCTURE ABOVE.
 6.9 WHERE NEW ASPHALT COMES IN CONTACT WITH EXISTING PAVEMENT CUT EXISTING ASPHALT LAYER CLEANLY.
 6.10 APPLY ASPHALTIC CONCRETE TO NOT LESS THAN 100% CORRECTED MAXIMUM DRY DENSITY BEFORE BEGINNING PAVING OPERATIONS.
 6.11 APPLY ASPHALTIC CONCRETE ONLY WHEN BASE OR PREVIOUS COURSE IS DRY AND AIR TEMPERATURE IS ABOVE 5 DEGC.
 6.12 ROLL UNTIL ROLLER MARKS ARE ELIMINATED AND COMPACTED TO NOT LESS THAN 98% CORRECTED MAXIMUM DRY DENSITY.
 6.13 FINISH SURFACE SMOOTH, TRUE TO GRADE.
 6.14 KEEP VEHICULAR TRAFFIC AND OTHER LOADS OFF NEWLY PAVED AREAS UNTIL 24 HOURS AFTER PAVING.
 6.15 APPLY TRAFFIC PAINT AS IDENTIFIED ON PLAN. TRAFFIC PAINT: NON-DARKENING, HOMOGENEOUS, UNIFORM AND SMOOTH, FREE FROM SKIN, DIRT AND OTHER FOREIGN MATERIALS.
 6.16 APPLY TRAFFIC PAINT AS IDENTIFIED ON PLAN. TRAFFIC PAINT: NON-DARKENING, HOMOGENEOUS, UNIFORM AND SMOOTH, FREE FROM SKIN, DIRT AND OTHER FOREIGN MATERIALS.
 6.17 APPLY TRAFFIC PAINT AS IDENTIFIED ON PLAN. TRAFFIC PAINT: NON-DARKENING, HOMOGENEOUS, UNIFORM AND SMOOTH, FREE FROM SKIN, DIRT AND OTHER FOREIGN MATERIALS.
 6.18 APPLY TRAFFIC PAINT AS IDENTIFIED ON PLAN. TRAFFIC PAINT: NON-DARKENING, HOMOGENEOUS, UNIFORM AND SMOOTH, FREE FROM SKIN, DIRT AND OTHER FOREIGN MATERIALS.

7. STORMWATER CISTERNS
 7.1 ALL CISTERNS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT.
 7.2 ALL CISTERNS SHALL BE CONSTRUCTED TO THE SATISFACTION OF THE GEOTECHNICAL CONSULTANT.
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WATER SERVICE PROFILE TABLE

MATERIAL: 50mm PEX TUBING TO AWMA C-904 SDR 9 (CTS)

STATION	DESCRIPTION	GRADE ELEV.	TOP OF PIPE	DEPTH OF COVER	COMMENTS
0+00.0	TYS CONNECTION TO 300 MUNICIPAL WATERMAIN	±69.36	±67.78	±2.58	-
0+03.0	-	±69.38	±2.55	±2.55	CROSSING 600 ST TOP ±66.32 U/S 50 WS 66.78 - 480mm CLEARANCE (MIN. 250mm REQUIRED)
0+04.0	-	±69.42	±2.58	±2.58	CROSSING 250 SAN TOP ±66.47 U/S 50 WS 66.79 - 320mm CLEARANCE (MIN. 250 REQUIRED)
0+11.6	-	±69.33	±2.40	±2.40	GRADE ELEVATION AT BOTTOM OF CURB
0+13.9	50mm CURB STOP & SERVICE POST TO CITY OF OTTAWA STANDARDS	69.39	66.98	2.41	ON PROPERTY LINE
0+15.9	-	68.42	67.02	2.40	-
0+19.3	-	68.49	67.09	2.40	ENTRY INTO BUILDING

DRAWING LEGEND

- CB CATCH BASIN
- MH MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- WS WATER SERVICE / WATERMAIN
- SAN SANITARY SEWER
- ST STORM SEWER
- CS CURB STOP & STAND POST
- FI FIRE HYDRANT
- W WATER METER
- UP REMOTE WATER METER READOUT
- U UTILITY POLE
- FE EXISTING GRADE ELEVATION
- PE PROPOSED GRADE ELEVATION
- LD LIGHT DUTY PAVEMENT
- HD HEAVY DUTY PAVEMENT
- SLOPE OF GRADE 0.5%
- EXISTING SLOPE OF GRADE 0.5%
- 150mm CURB / DEPRESSED CURB
- PROPERTY LINE
- FFL FIRST FLOOR ELEVATION
- BFL BASEMENT FLOOR ELEVATION
- USF UNDERSIDE OF FOOTING ELEVATION

APPROVED: [Signature] REFUSED: [Signature]

THIS DAY OF 20

DOUGLAS JAMES MCP RPP
 MANAGER DEVELOPMENT REVIEW CENTRAL
 PLANNING, INFRASTRUCTURE AND ECONOMIC
 DEVELOPMENT DEPARTMENT, CITY OF OTTAWA

KEY PLAN

THE PULLMAN
 515-511-509
 GLADSTONE AVE.
 OTTAWA, ONTARIO

NOTES AND DETAILS

Project: [Blank]

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 700 Long Point Circle
 Ottawa, Ontario K1T 4E9
 Tel: 613-425-8084
 dbrgray@dbgray.com

Signature: [Blank]
 Title: [Blank]

4 FEB 14-18 SIGNATURE BLOCK REVISED RE-ISSUED FOR APPROVAL
 3 FEB 5-18 RE-ISSUED FOR APPROVAL
 2 NOV 1-17 RE-ISSUED FOR APPROVAL
 1 JUL 4-17 ISSUED FOR APPROVAL

No. Date Revision

NOTES AND DETAILS

Engineer's Seal: [Blank]

Professional Engineer: [Blank]

Engineer's No.: [Blank]

Scale: [Blank]

Date: [Blank]

Job: [Blank]

Sheet: [Blank]

Project: [Blank]

Client: [Blank]

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Notes: [Blank]

Drawings: [Blank]

Not Valid Unless Sealed & Dated

C-3 of 4