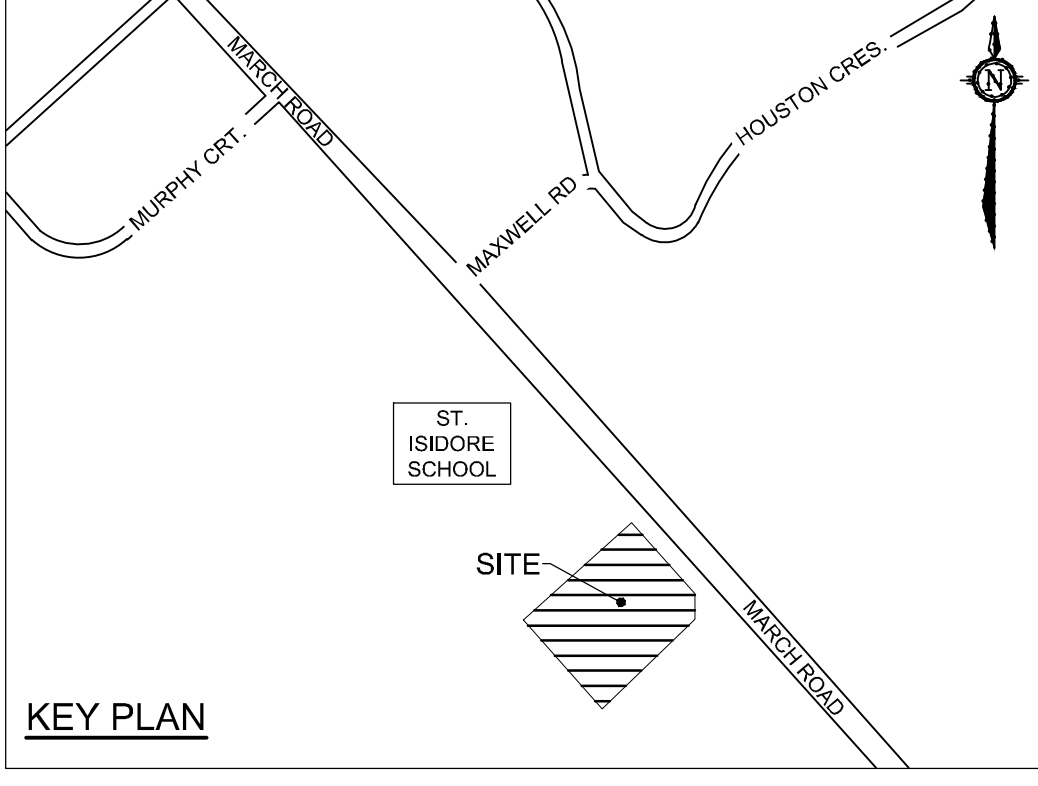
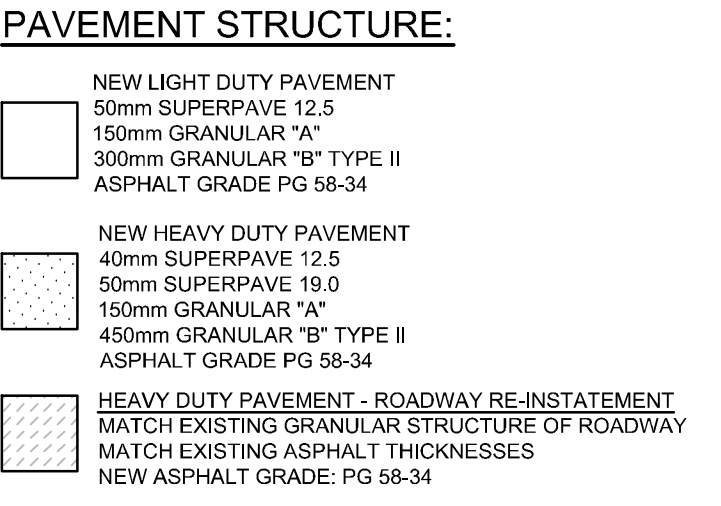
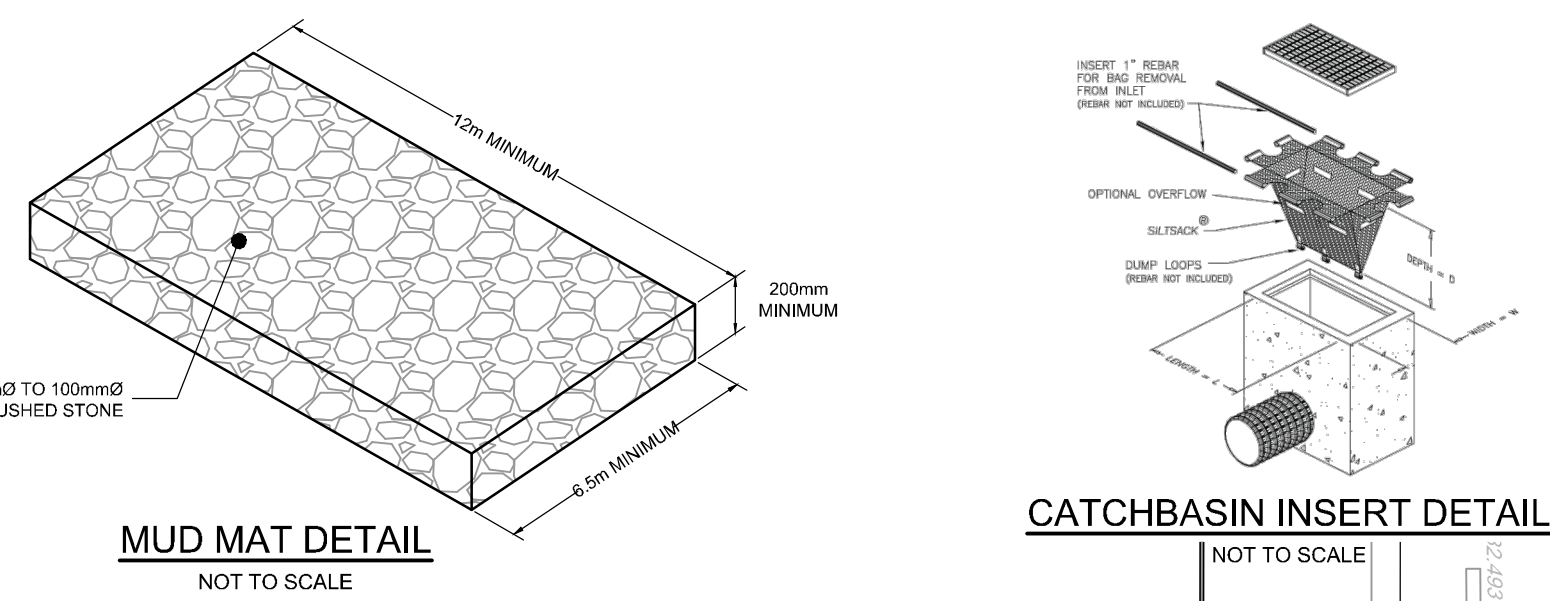


**LEGEND**

82.75	PROPOSED ELEVATION	SAN MH 01	PROPOSED SANITARY MANHOLE	EXISTING CONCRETE CURB
83.10 (TC)	PROPOSED TOP OF CURB ELEVATION	STM MH 03	PROPOSED STORM MANHOLE	EXISTING CATCHBASIN
82.30(S)	PROPOSED SWALE ELEVATION	HYD	PROPOSED HYDRANT AND VALVE	EXISTING CATCHBASIN/INLET
82.30	EXISTING STREET / GRADES	CBMH 01	PROPOSED CATCHBASIN MANHOLE	EXISTING UTILITY POLE
82.30	EXISTING ELEVATION	CB 02	PROPOSED CATCHBASIN	EXISTING FENCE
2.0%	GRADE AND DIRECTION		PROPOSED CATCHBASIN INSERT	EXISTING OVERHEAD WIRES
	MAXIMUM 3:1 SIDESLOPE		EMERGENCY OVERLAND FLOW ROUTE	EXISTING VALVE & VALVE BOX
83.50	PROPOSED TERRACE ELEVATION		BUILDING ENTRANCE / EXIT	
	PROPOSED SILT FENCING (OPSD 219.110)		TRANSFORMER	
	PROPERTY LINE	DS	DOWNSPOUT	
	FFE FINISHED FLOOR ELEVATION	SP	EXISTING SERVICE POST	
	T/FND TOP OF FOUNDATION WALL ELEVATION	HYD	EXISTING HYDRANT	
	USF UNDERSIDE OF FOOTING ELEVATION			



- GENERAL NOTES:**
- COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
  - DETERMINE THE EXACT LOCATION, SIZE, MATERIAL AND ELEVATION OF ALL EXISTING UTILITIES PRIOR TO COMMENCING CONSTRUCTION. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES WHETHER OR NOT SHOWN ON THIS DRAWING.
  - OBTAIN ALL NECESSARY PERMITS AND APPROVALS FROM THE CITY OF OTTAWA BEFORE COMMENCING CONSTRUCTION.
  - BEFORE COMMENCING CONSTRUCTION OBTAIN AND PROVIDE PROOF OF COMPREHENSIVE, ALL RISK AND OPERATIONAL LIABILITY INSURANCE FOR \$5,000,000.00. INSURANCE POLICY TO NAME OWNERS, ENGINEERS AND ARCHITECTS AS CO-INSURED.
  - COMPLETE ALL WORKS IN ACCORDANCE WITH THE MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS USING THE CURRENT GUIDELINES, BYLAWS AND STANDARDS INCLUDING MATERIALS OF CONSTRUCTION, DISINFECTION AND ALL RELEVANT REFERENCES TO OPSS, OPSD & AWWA GUIDELINES - ALL CURRENT VERSIONS AND AS AMENDED.
  - RESTORE ALL DISTURBED AREAS ON-SITE AND OFF-SITE, INCLUDING TRENCHES AND SURFACES ON PUBLIC ROAD ALLOWANCES TO EXISTING CONDITIONS OR BETTER TO THE SATISFACTION OF THE CITY OF OTTAWA AND ENGINEER.
  - REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL, ORGANIC MATERIAL AND DEBRIS UNLESS OTHERWISE INSTRUCTED BY ENGINEER. EXCAVATE AND REMOVE FROM SITE ANY CONTAMINATED MATERIAL. ALL CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
  - ALL ELEVATIONS ARE GEODETIC.
  - REFER TO GEOTECHNICAL INVESTIGATION REPORT (Ref No: PG5321-1, DATED JAN 20, 2021), PREPARED BY PATERSON GROUP INC., FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS. THE GEOTECHNICAL CONSULTANT IS TO REVIEW ON-SITE CONDITIONS AFTER EXCAVATION PRIOR TO PLACEMENT OF THE GRANULAR MATERIAL.
  - REFER TO ARCHITECT'S AND LANDSCAPE ARCHITECT'S DRAWINGS FOR BUILDING AND HARDSURFACE AREAS AND DIMENSIONS.
  - REFER TO THE DEVELOPMENT SERVICING STUDY AND STORMWATER MANAGEMENT REPORT (R-2022-090) PREPARED BY NOVATECH.
  - SAW CUT AND KEY GRIND ASPHALT AT ALL ROAD CUTS AND ASPHALT TIE IN POINTS AS PER CITY OF OTTAWA STANDARDS (R10).

- GRADING NOTES:**
- ALL TOPSOIL, ORGANIC OR DELETERIOUS MATERIAL MUST BE ENTIRELY REMOVED FROM BENEATH THE PROPOSED PAVED AREAS AS DIRECTED BY THE SITE ENGINEER OR GEOTECHNICAL ENGINEER.
  - EXPOSED SUBGRADES IN PROPOSED PAVED AREAS SHOULD BE PROOF ROLLED WITH A LARGE STEEL DRUM ROLLER AND INSPECTED BY THE GEOTECHNICAL ENGINEER PRIOR TO THE PLACEMENT OF GRANULARS.
  - ANY SOFT AREAS EVIDENT FROM THE PROOF ROLLING SHOULD BE SUB-EXCAVATED AND REPLACED WITH SUITABLE MATERIAL THAT IS FROST COMPATIBLE WITH THE EXISTING SOILS AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.
  - THE GRANULAR BASE SHOULD BE COMPACTED TO AT LEAST 98% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE. ANY ADDITIONAL GRANULAR FILL USED BELOW THE PROPOSED PAVEMENT SHOULD BE COMPACTED TO AT LEAST 95% OF THE STANDARD PROCTOR MAXIMUM DRY DENSITY VALUE.
  - MINIMUM OF 2% GRADE FOR ALL GRASS AREAS UNLESS OTHERWISE NOTED.
  - MAXIMUM TERRACING GRADE TO BE 3:1 UNLESS OTHERWISE NOTED.
  - ALL GRADES BY CURBS ARE EDGE OF PAVEMENT GRADES UNLESS OTHERWISE INDICATED.
  - ALL CURBS SHALL BE BARRIER CURB (150mm) UNLESS OTHERWISE NOTED AND CONSTRUCTED AS PER CITY OF OTTAWA STANDARDS (SC1.1).
  - REFER TO LANDSCAPE PLAN FOR PLANTING AND OTHER LANDSCAPE FEATURE DETAILS.
  - CONTRACTOR TO PROVIDE THE CONSULTANT WITH A GRADING PLAN INDICATING THE AS-BUILT ELEVATIONS OF ALL DESIGN GRADES SHOWN ON THIS PLAN.

- EROSION AND SEDIMENT CONTROL NOTES:**
- ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE INSTALLED TO THE SATISFACTION OF THE ENGINEER AND THE CITY OF OTTAWA. THEY ARE TO BE APPROPRIATE TO THE SITE CONDITIONS, PRIOR TO UNDERTAKING ANY SITE ALTERATIONS (FILLING, GRADING, REMOVAL OF VEGETATION, ETC.) AND DURING ALL PHASES OF SITE PREPARATION AND CONSTRUCTION. THESE PRACTICES ARE TO BE IMPLEMENTED IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL AND SHOULD INCLUDE AS A MINIMUM THOSE MEASURES INDICATED ON THE PLAN.
  - A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
  - TO PREVENT SURFACE EROSION FROM ENTERING ANY STORM SEWER SYSTEM DURING CONSTRUCTION, CATCHBASIN INSERTS WILL BE PLACED WITHIN SURFACE CATCHBASINS AND MANHOLE STRUCTURES. A LIGHT DUTY SILT FENCE BARRIER WILL ALSO BE INSTALLED (PER OPSD 219.110) AROUND THE CONSTRUCTION AREA (WHERE APPLICABLE). IN AREAS WHERE SILT FENCING CANNOT BE INSTALLED PER OPSD 219.110 (i.e. HARD SURFACES), A FILTER SOCK SHALL BE SUBSTITUTED. THESE CONTROL MEASURES WILL REMAIN IN PLACE UNTIL CONSTRUCTION IS COMPLETE.
  - THE SEDIMENT CONTROL MEASURES SHALL ONLY BE REMOVED WHEN, IN THE OPINION OF THE ENGINEER, THE MEASURES ARE NO LONGER REQUIRED. NO CONTROL MEASURES MAY BE PERMANENTLY REMOVED WITHOUT PRIOR AUTHORIZATION FROM THE ENGINEER.
  - THE CONTRACTOR SHALL IMMEDIATELY REPORT TO THE ENGINEER ANY ACCIDENTAL DISCHARGES OF SEDIMENT MATERIAL INTO ANY STORM SEWER SYSTEM. APPROPRIATE RESPONSE MEASURES, INCLUDING ANY REPAIRS TO EXISTING CONTROL MEASURES OR THE IMPLEMENTATION OF ADDITIONAL CONTROL MEASURES, SHALL BE CARRIED OUT BY THE CONTRACTOR WITHOUT DELAY.
  - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
  - ROADWAYS ARE TO BE SWEEP AS REQUIRED OR AS DIRECTED BY THE ENGINEER AND/OR MUNICIPALITY.
  - THE CONTRACTOR SHALL ENSURE PROPER DUST CONTROL IS PROVIDED WITH THE APPLICATION OF WATER (AND IF REQUIRED, CALCIUM CHLORIDE) DURING DRY PERIODS.

**Erosion and Sediment Control Responsibilities:**

ESC Measure	Symbol	Specification	During Construction		After Construction Prior to Final Acceptance		After Final Acceptance	
			Installation Responsibility	Inspection/Maintenance Responsibility	Approval to Remove	Removal Responsibility	Inspection/Maintenance Responsibility	Approval to Remove
Silt Fence	---	OPSD 219.110	Developer's Contractor	Developer's Contractor	Consultant	Developer's Contractor		N/A
Filter Bags/Socks	---	Location as indicated in EGC Notes #1	Developer's Contractor	Developer's Contractor	Consultant	Developer's Contractor		N/A
Mud Mat	---	Drawing Details	Developer's Contractor	Developer's Contractor	Developer's Contractor	Developer's Contractor		N/A
Dust Control	---	Location as Required	Developer's Contractor	Developer's Contractor	Consultant	Developer's Contractor		N/A
Stabilized Material Stockpiling	---	Location as Required by Contractor	Developer's Contractor	Developer's Contractor	Developer's Contractor	Developer's Contractor		N/A
Sediment Basin (for flows being pumped out of excavations)	---	Location as Required by Contractor	Developer's Contractor	Developer's Contractor	After Every Rainstorm	Developer's Contractor	Developer's Contractor	N/A

**Ottawa**  
PLANNING AND INFRASTRUCTURE PORTFOLIO  
INFRASTRUCTURE SERVICES DEPARTMENT  
DESIGN AND CONSTRUCTION - BUILDINGS & PARKS BRANCH

PORTFOLIO DE L'URBANISME ET DE L'INFRASTRUCTURE  
DÉPARTEMENT DES SERVICES D'INFRASTRUCTURE  
DIRECTION DE CONCEPTION ET DE CONSTRUCTION - IMMEUBLES ET DES PARCS

FOR / POUR  
INFRASTRUCTURE SERVICES & COMMUNITY SUSTAINABILITY  
INFRASTRUCTURE SERVICES  
DESIGN & CONST. - BUILDINGS & PARKS

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**NOVATECH**  
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NUMBER	REVISION / MILESTONE / FMT SAILANT	DATE: (Y/M/D)	INITIALS: (NAME)
6	REVISED PER CITY COMMENTS	22/08/23	FST
5	ISSUED FOR 60% REVIEW	22/07/27	FST
4	ISSUED FOR 30% REVIEW	22/07/15	FST
3	ISSUED FOR BUILDING PERMIT	22/06/20	FST
2	ISSUED FOR SPC APPROVAL	22/05/20	FST
1	ISSUED FOR SPC APPROVAL	22/05/20	FST

**DRAWING TITLE**  
SCALE: 1:1  
SHEET NUMBER

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CE DESSIN CONSTITUE LA PROPRIÉTÉ DE LA VILLE D'OTTAWA ET TOUT DROIT D'AUTEUR EST RÉSERVÉ. LES DIMENSIONS UTILISÉES LES SONT À DES FINS DESTINÉES À ESTIMER SEULEMENT. IL INCOMBE À CHAQUE ENTREPRENEUR, SOUS-CONTRACTANT OU CONSULTANT DE VÉRIFIER TOUTES LES DIMENSIONS ET LES CONDITIONS SUR LE CHANTIER. VEUILLEZ INFORMER LE PROPRIÉTAIRE DE TOUTES ERREURS OU OMISSIONS AVANT D'ENTAMER LES TRAVAUX. NE DRESSÉZ PAS LES PLANS À L'ÉCHELLE.

ARCHITECT / ARCHITECTE  
CONSULTANT / EXPERT-CONSEIL

CONSULTANT / EXPERT-CONSEIL  
CONSULTANT / EXPERT-CONSEIL

PROFESSIONAL ENGINEER  
F.S. THAUETTE  
100041299  
AUG 2, 2022  
PROVINCE OF ONTARIO

PROJECT / LOCATION / PROJET / ENDROIT  
**FIRE STATION 45**

1075-A MARCH ROAD  
OTTAWA, ONTARIO

DRAWING / DESSIN  
**GRADING AND EROSION  
SEDIMENT CONTROL PLAN**

BUSINESS ENTITY / NUMÉRO DE L'ENTITÉ  
BUILDING NUMBER / NUMÉRO DU BÂTIMENT

SHEET NO. / FEUILLE NO.  
**C2.0**

CITY PROJECT NO. / NUMÉRO DE PROJET  
CONV. PROJECT NO. / NUMÉRO DE PROJET  
122089

D07-12-22-0090