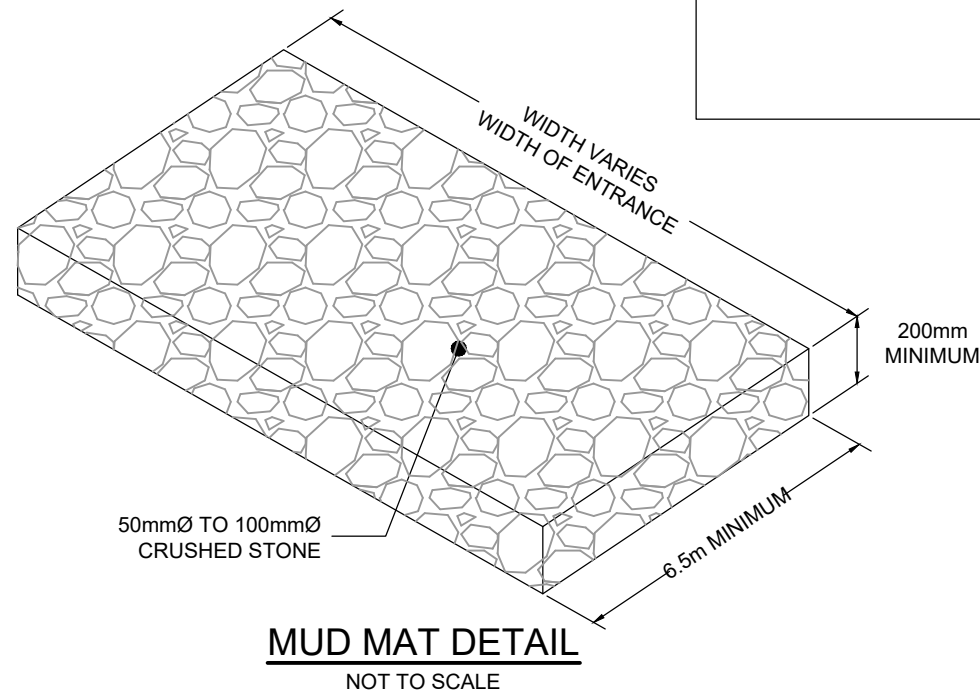
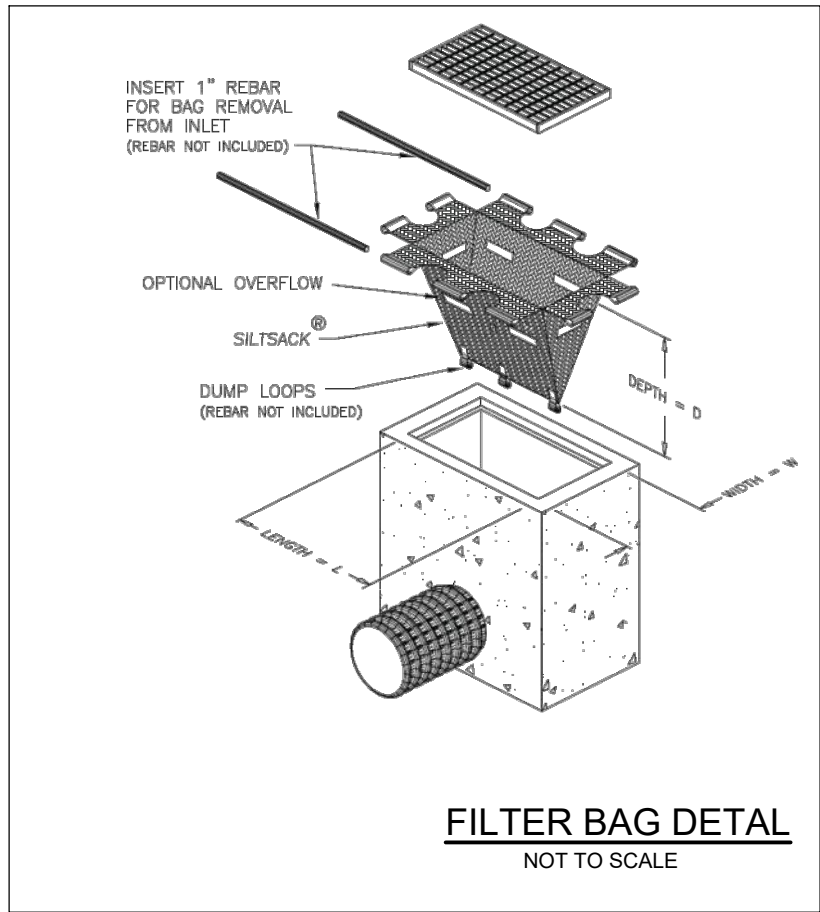


- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - DC PROPOSED DEPRESSED CURB
 - PROPOSED FOUNDATION WALL C/W RAILING
 - PROPOSED CAP
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED LANDSCAPE DRAIN
 - PROPOSED TRENCH DRAIN
 - PROPOSED BUILDING ENTRANCE
 - SWALE c/w SUBDRAIN AND DIRECTION OF FLOW
 - TERRACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
 - PROPOSED FIREWALL
 - PROPOSED ROOF LIMITS
 - PROPOSED TRANSFORMER
 - PROPOSED FILTER BAGS AT CATCHBASIN, CATCHBASIN MANHOLES AND TRENCHDRAINS
 - PROPOSED MUD MAT
 - LIGHT DUTY SILT FENCE (OPSD 219.110)
 - EXISTING STORM MANHOLE
 - EXISTING CATCHBASIN
 - EXISTING LIGHT STANDARD
 - EXISTING FENCE

- EROSION AND SEDIMENT CONTROL NOTES:**
- THE CONTRACTOR SHALL IMPLEMENT BEST MANAGEMENT PRACTICES, TO PROVIDE FOR PROTECTION OF THE AREA DRAINAGE SYSTEM AND THE RECEIVING WATERCOURSE, DURING CONSTRUCTION ACTIVITIES. THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT APPROPRIATE EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
- THE OWNER AGREES TO PREPARE AND IMPLEMENT AN EROSION AND SEDIMENT CONTROL PLAN TO THE SATISFACTION OF THE CITY OF OTTAWA, 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 IN ACCORDANCE WITH THE CURRENT BEST MANAGEMENT PRACTICES FOR EROSION AND SEDIMENT CONTROL SUCH AS BUT NOT LIMITED TO INSTALLING FILTER CLOTHS ACROSS MANHOLE/CATCHBASIN LIDS TO PREVENT SEDIMENTS FROM ENTERING STRUCTURES AND INSTALL AND MAINTAIN A LIGHT DUTY SILT FENCE BARRIER AS REQUIRED.
 - THE CONTRACTOR SHALL PLACE FILTER BAGS UNDER THE CATCHBASIN AND MANHOLE GRATES FOR THE DURATION OF CONSTRUCTION AND WILL REMAIN IN PLACE DURING ALL PHASES OF CONSTRUCTION.
 - SILT FENCING FOR ENTIRE PERIMETER OF SITE, SHALL BE UTILIZED TO CONTROL EROSION FROM THE SITE DURING CONSTRUCTION.
 - THE CONTRACTOR ACKNOWLEDGES THAT FAILURE TO IMPLEMENT EROSION AND SEDIMENT CONTROL MEASURES MAY BE SUBJECT TO PENALTIES IMPOSED BY ANY APPLICABLE REGULATORY AGENCY.
 - PROVIDE MUD MATS AT ALL CONSTRUCTION ACCESS POINTS TO MINIMIZE SEDIMENT TRANSPORT OFFSITE.
 - EROSION AND SEDIMENT CONTROL MEASURES MAY BE MODIFIED IN THE FIELD AT THE DISCRETION OF THE CITY OF OTTAWA SITE INSPECTOR OR CONSERVATION AUTHORITY.



NOTE:
THE POSITION OF ALL POLE LINES, CONDUITS, WATERMANS, SEWERS AND OTHER UNDERGROUND AND OVERGROUND UTILITIES AND STRUCTURES IS NOT NECESSARILY SHOWN ON THE CONTRACT DRAWINGS, AND WHERE SHOWN, THE ACCURACY OF THE POSITION OF SUCH UTILITIES AND STRUCTURES IS NOT GUARANTEED. BEFORE STARTING WORK, DETERMINE THE EXACT LOCATION OF ALL SUCH UTILITIES AND STRUCTURES AND ASSUME ALL LIABILITY FOR DAMAGE TO THEM.

No.	REVISION	DATE	BY
4.	REVISED WATER ENTRY	DEC 03/2025	ARM
3.	ISSUED FOR CITY APPROVAL	JUNE 10/2025	ARM
2.	REVISED PER CITY COMMENTS	FEB 28/2025	ARM
1.	ISSUED FOR SITEPLAN APPLICATION	OCT/17/24	ARM

SCALE
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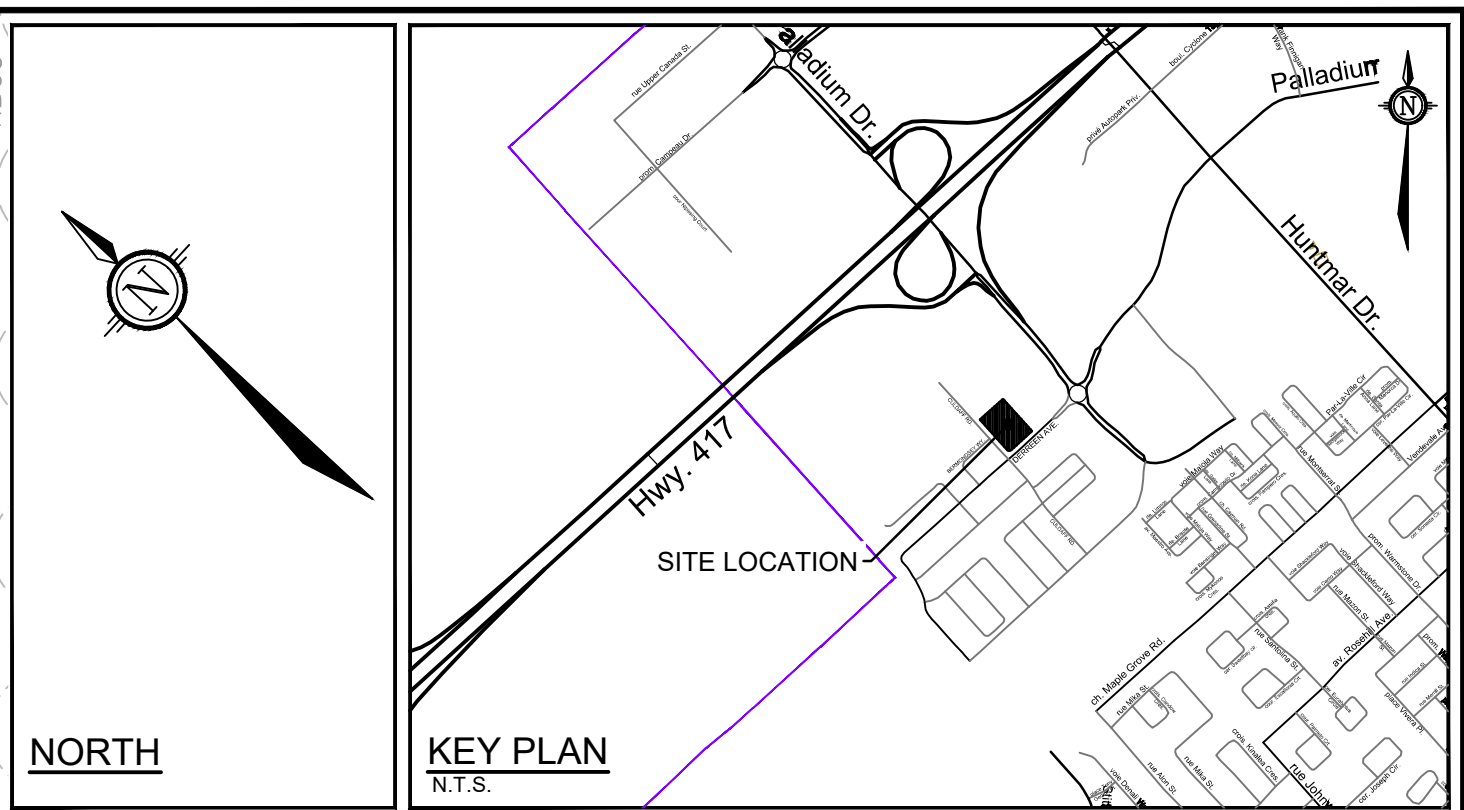
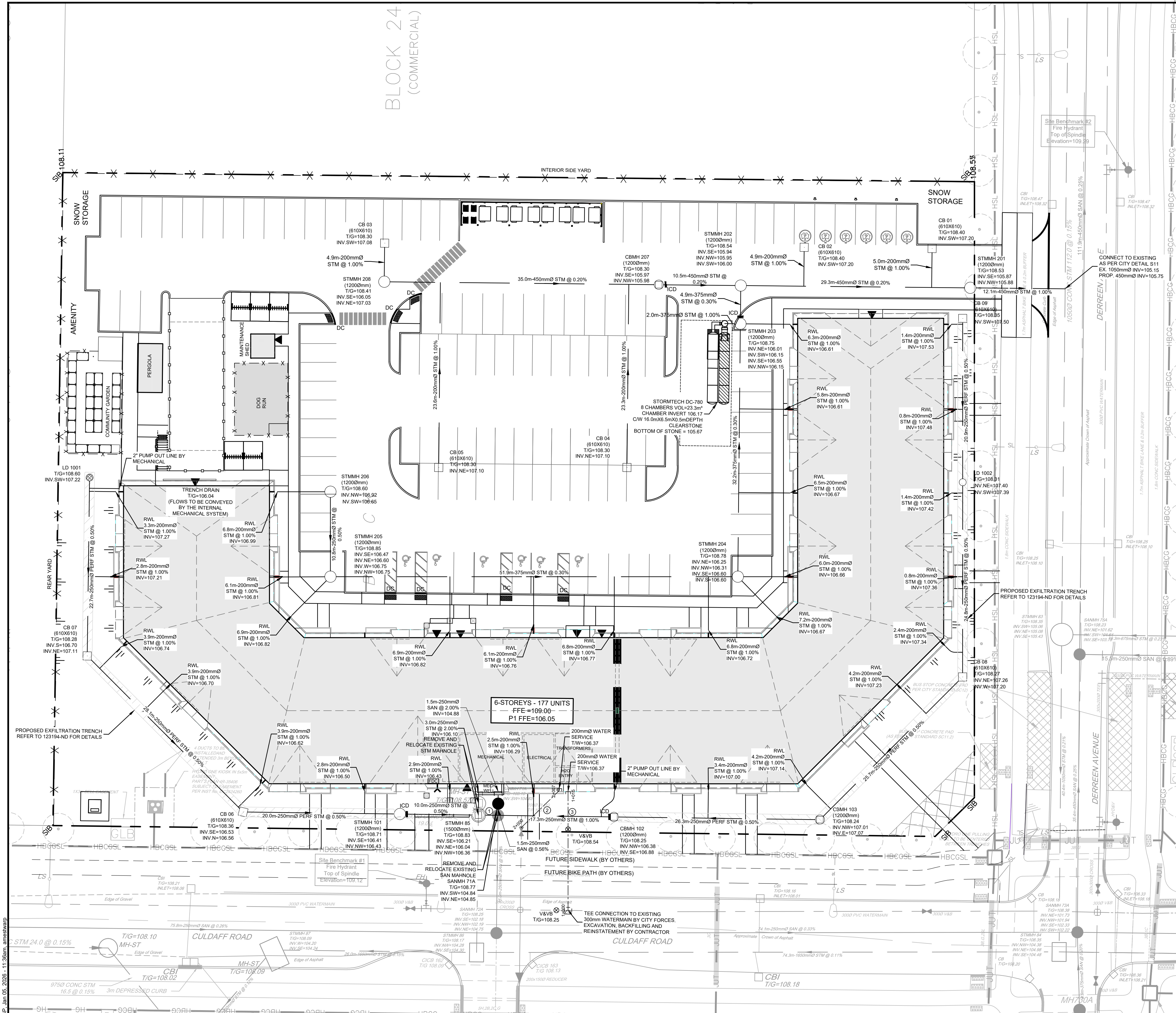
DESIGN	ARM
CHECKED	GJM
DRAWN	MF/ARM
CHECKED	ARM
APPROVED	GJM



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Telephone (613) 254-9643
Facsimile (613) 254-5867
Website www.novatech-eng.com

LOCATION CITY OF OTTAWA 670 DERREEN AVENUE	PROJECT No. 123194
DRAWING NAME EROSION AND SEDIMENT CONTROL PLAN	REV REV#4
	DRAWING No. 123194-ESC

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- LEGEND**
- PROPERTY LINE
 - PROPOSED CURB
 - PROPOSED DEPRESSED CURB
 - PROPOSED TWISI
 - PROPOSED FOUNDATION WALL C/W RAILING
 - PROPOSED CAP
 - PROPOSED SANITARY SERVICE c/w MANHOLE
 - PROPOSED STORM SEWER AND MANHOLE
 - PROPOSED CATCHBASIN MANHOLE
 - PROPOSED CATCHBASIN
 - PROPOSED TRENCH DRAIN
 - PROPOSED INLET CONTROL DEVICE
 - RAIN WATER LEADER CONNECTION LOCATION
 - PROPOSED PIPE CROSSING (REFER TO 123050-ND FOR DETAILS)
 - PROPOSED SIAMESE CONNECTION
 - PROPOSED WATER SERVICE
 - PROPOSED HYDRANT c/w LEAD & VALVE
 - PROPOSED VALVE AND VALVE BOX
 - PROPOSED WATER METER
 - PROPOSED REMOTE WATER METER
 - PROPOSED BUILDING ENTRANCE
 - PROPOSED FIREWALL
 - PROPOSED GARBAGE COLLECTION BINS
 - PROPOSED BIKE RACKS
 - PROPOSED CROSSWALK PAINTING
 - PROPOSED LINE PAINTING
 - PROPOSED ROOF LIMITS
 - PROPOSED TRANSFORMER
 - DIRECTION OF FLOW
 - EXISTING UTILITY POLE C/W GUY WIRES
 - EXISTING WATERMAIN C/W VALVE & VALVE CHAMBER
 - EXISTING HYDRANT C/W LEAD & VALVE
 - EXISTING SANITARY MANHOLE & SEWER
 - EXISTING STORM MANHOLE & SEWER
 - EXISTING CATCHBASIN
 - EXISTING JOINT UTILITY TRENCH
 - EXISTING STREETLIGHT
 - EXISTING ROAD SIGNAGE
 - EXISTING STREET TREE

PIPE CROSSING TABLE			
CROSSING	LOWER PIPE	HIGHER PIPE	CLEARANCE
1	250mmØ SAN OBV = 105.08	250mmØ STM INV = 106.24	±1.16m
2	200mmØ WM OBV = 105.77	250mmØ STM INV = 106.27	±0.50m
3	200mmØ WM OBV = 105.82	250mmØ STM INV = 106.32	±0.50m

PROPOSED 200mmØ WATER SERVICE (1+000.0)			
STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
1+000.00	108.24	105.84*	CONNECTION TO EXISTING 300mmØ WATERMAIN
1+010.32	108.54	106.14	PROPOSED VALVE AND VALVE BOX
1+012.01	108.37	105.97	CROSS BELOW 250mm STM (CLEARANCE ±0.50m)
1+014.88	108.77	106.37	CAP SERVICE 1.0m FROM THE FOUNDATION WALL

PROPOSED 200mmØ WATER SERVICE (2+000.0)			
STATION	SURFACE ELEVATION	T/W/M ELEVATION	COMMENTS
2+000.0	108.63	106.23*	CONNECTION TO EXISTING 200mm VALVE c/w 45° BEND EXISTING CAP AND PIPE PAST VALVE TO BE REMOVED
2+002.11	108.70	105.77	CROSS ABOVE 300mm STM AS PER CITY OF OTTAWA DETAIL W25 (CLEARANCE ±0.50m)
2+006.76	108.90	106.37	45° BEND
2+006.99	108.91	106.37	CAP SERVICE 0.6m FROM THE FOUNDATION WALL

* CONTRACTOR TO CONFIRM THE ELEVATION OF THE EXISTING WATER SUBMAIN AND NOTIFY THE ENGINEER IF DIFFERENT

ICD SIZING AND FLOWS					
STRUCTURE	ORIFICE ICD SIZE	ICD INVERT (m)	T/G (m)	100-yr HGL (m)	100-yr HEAD (m)
STMMH 101	83mm PLATE	106.43	108.70	108.17	1.70
CBMH 102	83mm PLATE	106.38	108.25	107.48	1.06
STMMH 203	94mm PLATE	106.02	108.74	107.81	1.74
CBMH 207	152mm PLATE	105.97	108.30	108.42	2.37

- NOTE:**
- ALL SERVICE CONNECTIONS AND CATCHBASIN CONNECTIONS TO BE MADE PER CITY OF OTTAWA DETAIL S11, S11.2, AND S1.
 - BACKWATER VALVES TO BE PROVIDED ON ALL STORM AND SANITARY LATERALS AS PER CITY OF OTTAWA DETAILS S14, S14.1, AND S14.2. DOWNSTREAM OF ANY GRAVITY OUTLET FROM THE BUILDING. REFER TO MECHANICAL PLANS FOR DETAIL.
 - ALL FLOWS FROM THE UNDERGROUND PARKING GARAGE ARE TO BE CONVEYED TO THE SANITARY SERVICE. SANITARY FLOWS ARE TO BE PUMPED TO THE PROPOSED SANITARY SERVICE (TYP).
 - PROPOSED SERVICES TO BE SLEEVED THROUGH FOUNDATION WALL. FOUNDATION DRAINS TO BE PUMPED TO STORM SERVICE.
 - PROPOSED TRENCHDRAINS ARE TO BE CONVEYED TO THE FREE FLOWING STM OUTLET CONNECTION TO STMMH 85. REFER TO THE MECHANICAL DRAWINGS FOR DETAILS.
 - ROOF DOWNSPOUTS ARE TO BE DIRECTLY CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. REFER TO ARCHITECT AND MECHANICAL PLANS FOR DETAILS.
 - REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS ON INTERNAL PLUMBING (TYP).

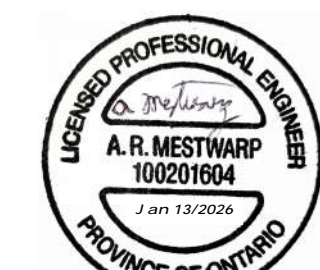
REFER TO 123194-ND FOR ADDITIONAL NOTES & DETAILS

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SCALE
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DESIGN
ARM
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MF/ARM
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ARM
APPROVED
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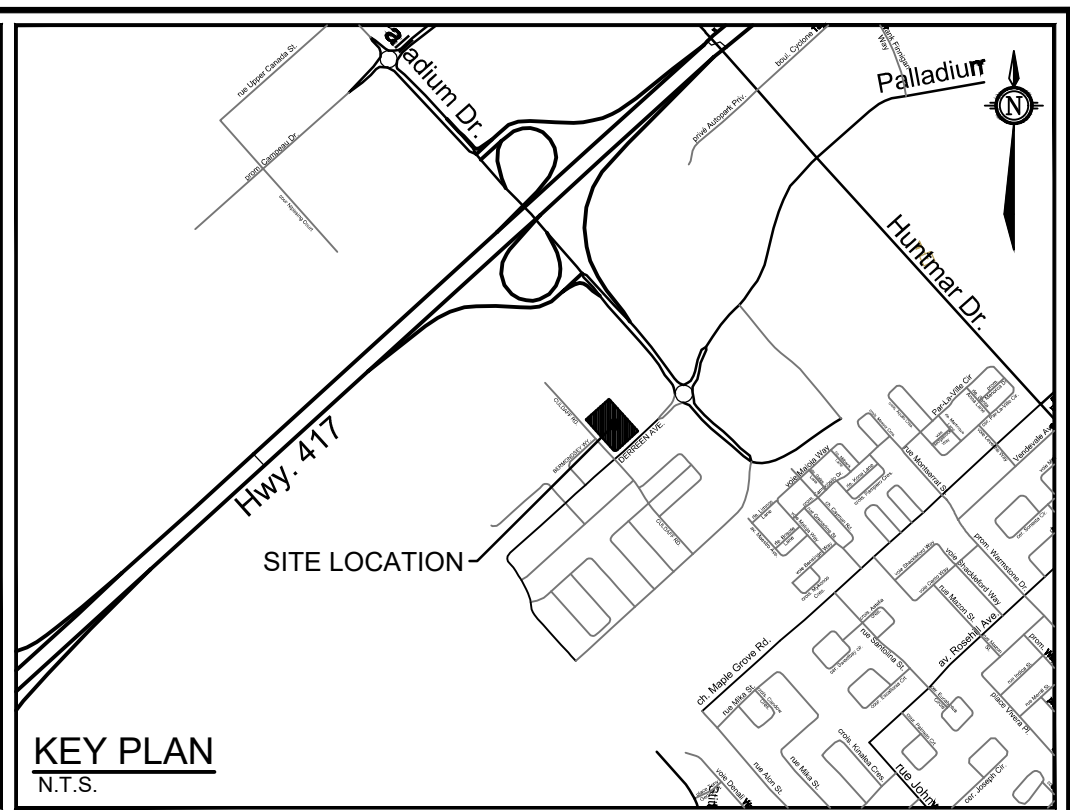
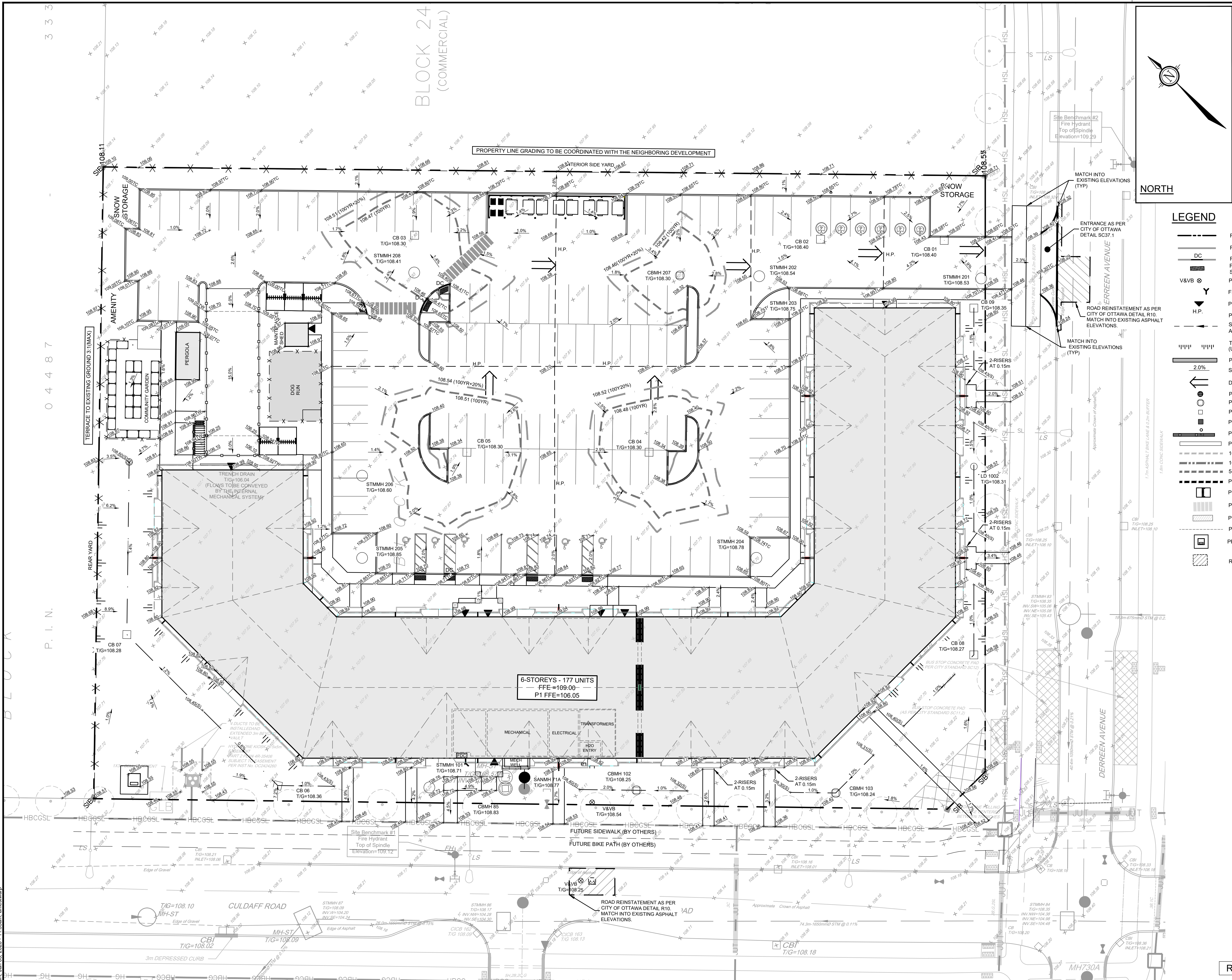
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LOCATION
CITY OF OTTAWA
670 DERREEN AVENUE

DRAWING NAME
GENERAL PLAN OF SERVICES

PROJECT No.
123194
REV
REV#4
DRAWING No.
123194-GP

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LEGEND

- PROPERTY LINE
- PROPOSED BARRIER CURB
- PROPOSED DEPRESSED CURB
- PROPOSED TACTILE WALKING SURFACE INDICATOR (TWSI)
- PROPOSED VALVE AND VALVE BOX
- FIRE DEPARTMENT SIAMESE CONNECTION
- PROPOSED BUILDING ENTRANCE
- PROPOSED HIGH POINT
- SWALE w/ SUBDRAIN AND DIRECTION OF FLOW
- TERRACING 3:1 SLOPE MAX (UNLESS OTHERWISE INDICATED)
- PROPOSED FOUNDATION WALL C/W RAILING
- SLOPE AND DIRECTION
- DIRECTION OF MAJOR OVERLAND FLOW
- PROPOSED LANDSCAPE DRAIN
- PROPOSED CATCHBASIN MANHOLE
- PROPOSED CATCHBASIN
- PROPOSED AREA DRAIN
- PROPOSED ROOF DRAINS
- PROPOSED TRENCH DRAIN
- 100-YR+20% PONDING
- 100-YR PONDING
- 5-YR PONDING
- PROPOSED FIRE WALL
- PROPOSED BIKE RACKS
- PROPOSED CROSSWALK PAINTING
- PROPOSED LINE PAINTING
- PROPOSED ROOF LIMITS
- PROPOSED TRANSFORMER
- ROAD REINSTATEMENT
- SAN MH
- STM MH
- PROPOSED SANITARY MANHOLE
- PROPOSED STORM MANHOLE
- PROPOSED HYDRANT & VALVE
- PROPOSED VALVE AND VALVE BOX
- EXISTING VALVE & VALVE BOX
- EXISTING VALVE & LEAD
- EXISTING SANITARY MANHOLE
- EXISTING STORM MANHOLE
- EXISTING CATCHBASIN
- EXISTING DITCH CENTERLINE
- EXISTING UTILITY POLE
- EXISTING UTILITY POLE ANCHORS
- EXISTING STREETLIGHT
- EXISTING ROAD SIGNAGE
- EXISTING CULVERT
- EXISTING DITCH/ BOTTOM OF SLOPE

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1:250	ARM
1:250	GJM
1:250	MF/ARM
1:250	ARM
1:250	GJM



LOCATION CITY OF OTTAWA 670 DERREEN AVENUE	PROJECT No. 123194
DRAWING NAME GRADING PLAN	REV REV#4
	DRAWING No. 123194-GR

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