

DRAWING LEGEND

- CB [Symbol] CATCH BASIN
- MH [Symbol] MANHOLE
- CB/MH [Symbol] CATCH BASIN/MANHOLE
- SPL [Symbol] SPRINGLINE OF PIPE
- INV [Symbol] INVERT OF PIPE
- SAN [Symbol] SANITARY SEWER
- ST [Symbol] STORM SEWER
- WS/WM [Symbol] WATER SERVICE/WATERMAIN
- CS [Symbol] CURB STOP & STANDPOST
- VB [Symbol] VALVE & VALVE BOX
- FH [Symbol] FIRE HYDRANT
- [Symbol] ROOF DRAIN
- [Symbol] WATER METER
- [Symbol] REMOTE WATER METER READOUT
- [Symbol] EXISTING GRADE ELEVATION
- [Symbol] +67.89 PROPOSED GRADE ELEVATION
- [Symbol] EXISTING SLOPE OF GRADE
- [Symbol] 2% PROPOSED SLOPE OF GRADE
- [Symbol] T.O.S. TOP OF SLOPE
- [Symbol] B.O.S. BOTTOM OF SLOPE
- [Symbol] CENTERLINE OF SWALE
- [Symbol] PROPERTY LINE
- [Symbol] SILT FENCE BARRIER
- [Symbol] 150mm CURB/DEPRESSED CURB
- [Symbol] ASPHALT PAVEMENT
- [Symbol] ASPHALT WALKWAY
- [Symbol] CONCRETE
- [Symbol] LANDSCAPE
- [Symbol] FFL FIRST FLOOR ELEVATION
- [Symbol] TOF TOP OF FOUNDATION ELEVATION
- [Symbol] USF UNDERSIDE OF FOOTING



| No. | DATE | REVISION |
|-----|-----------|---|
| 3 | OCT 13-20 | ISSUED FOR APPROVAL |
| 2 | APR 3-20 | 50% COMPLETE ISSUED FOR REVIEW & COORDINATION |
| 1 | JAN 21-20 | PRELIMINARY |

D. B. GRAY ENGINEERING INC.
 Stormwater Management • Grading & Drainage • Storm & Sanitary Sewers • Watermain
 700 Long Point Circle 613-425-8044
 Ottawa, Ontario d.gray@dbgrayengineering.com

Project **PROPOSED THREE STOREY APARTMENT BUILDING DUNBAR COURT OTTAWA, ONTARIO**

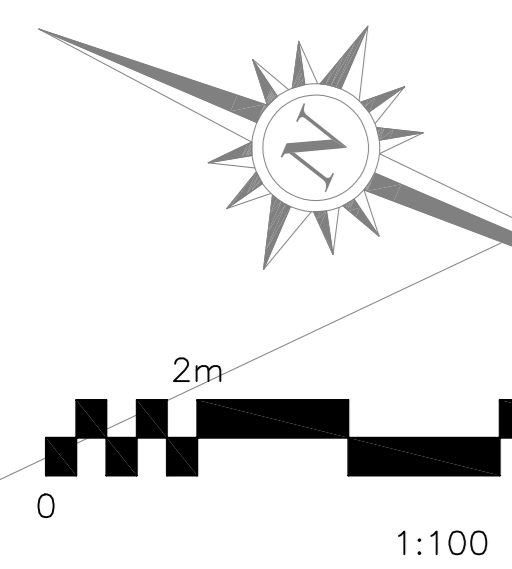
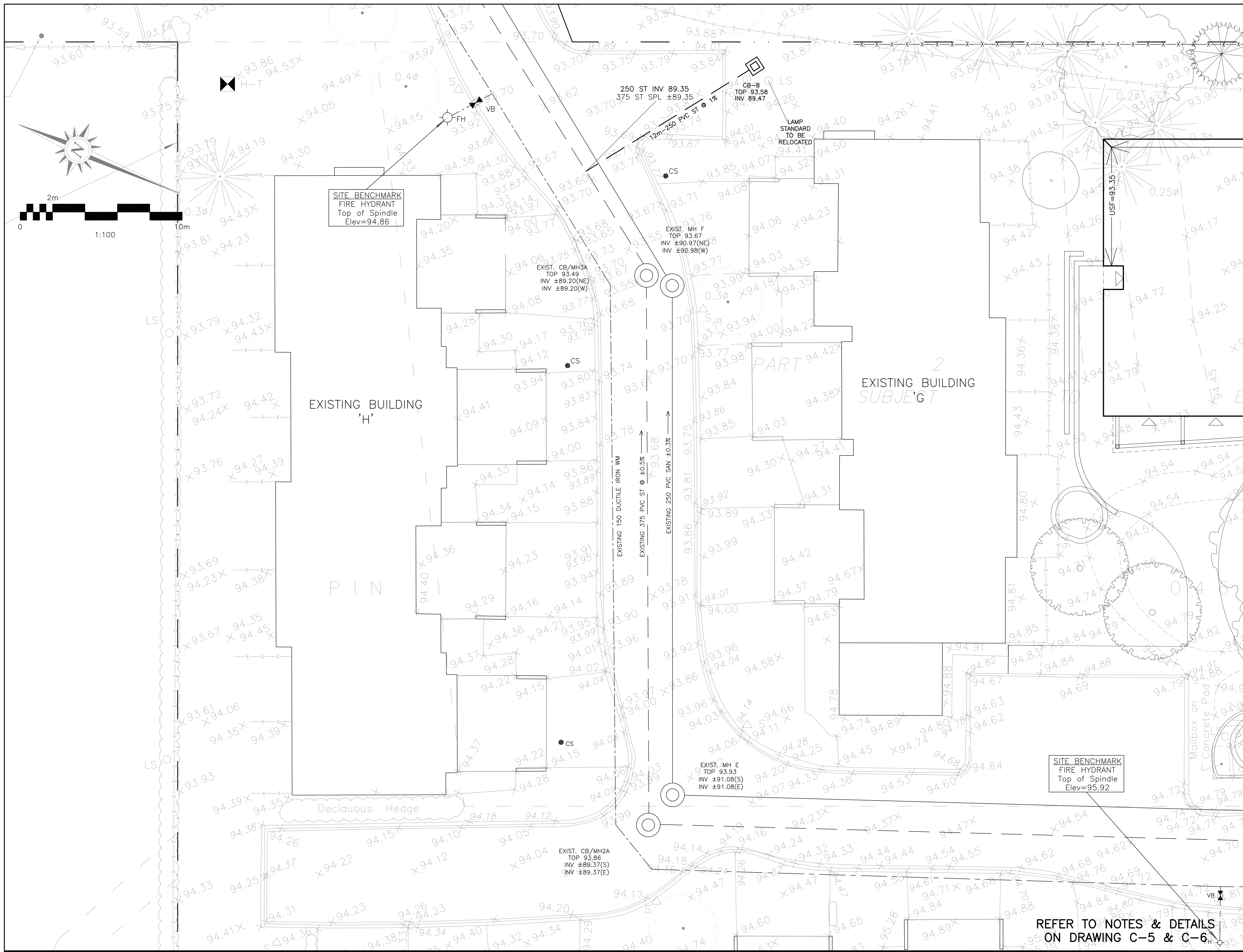
Drawing Title **SITE SERVICING PLAN (SOUTH)**

Engineer's Seal: **D.B. GRAY**, 17016502, OCT 13-20, PROVINCE OF ONTARIO

Drawn: **D.B.G.**
 Hor. Scale: 1:100
 Vert. Scale:
 Date: JAN 21-20
 Job No.: 19062

Drawing No.: **C-1** of 9

REFER TO NOTES & DETAILS ON DRAWING C-5 & C-6



SITE BENCHMARK
FIRE HYDRANT
Top of Spindle
Elev=94.86

EXIST. CB/MH3A
TOP 93.49
INV ±89.20(N/E)
INV ±89.20(W)

250 ST INV 89.35
375 ST SPL ±89.35
12m-250 PVC ST @ 1%

CB-8
TOP 93.58
INV 89.47

LAMP STANDARD
TO BE
RELOCATED

EXIST. MH F
TOP 93.67
INV ±90.97(N/E)
INV ±90.98(W)

EXISTING BUILDING
'H'

EXISTING BUILDING
SUBJECT

PIN

EXISTING 150 DUCTILE IRON WM
EXISTING 375 PVC ST @ ±0.5%
EXISTING 250 PVC SAN ±0.3%

EXIST. MH E
TOP 93.93
INV ±91.08(S)
INV ±91.08(E)

SITE BENCHMARK
FIRE HYDRANT
Top of Spindle
Elev=95.92

EXIST. CB/MH2A
TOP 93.86
INV ±89.37(S)
INV ±89.37(E)

REFER TO NOTES & DETAILS
ON DRAWING C-5 & C-6

| DRAWING LEGEND | |
|----------------|-----------------------------|
| CB | CATCH BASIN |
| MH | MANHOLE |
| CB/MH | CATCH BASIN/MANHOLE |
| SPL | SPRINGLINE OF PIPE |
| INV | INVERT OF PIPE |
| SAN | SANITARY SEWER |
| ST | STORM SEWER |
| WS/WM | WATER SERVICE/WATERMAIN |
| CS | CURB STOP & STANDPOST |
| VB | VALVE & VALVE BOX |
| FH | FIRE HYDRANT |
| RD | ROOF DRAIN |
| WM | WATER METER |
| RM | REMOTE WATER METER READOUT |
| +67.89 | EXISTING GRADE ELEVATION |
| +67.89 | PROPOSED GRADE ELEVATION |
| 2% | EXISTING SLOPE OF GRADE |
| 2% | PROPOSED SLOPE OF GRADE |
| T.O.S | TOP OF SLOPE |
| B.O.S | BOTTOM OF SLOPE |
| --- | CENTERLINE OF SWALE |
| --- | PROPERTY LINE |
| --- | SILT FENCE BARRIER |
| C.C | 150mm CURB/DEPRESSED CURB |
| --- | ASPHALT PAVEMENT |
| --- | ASPHALT WALKWAY |
| --- | CONCRETE |
| --- | LANDSCAPE |
| FFL | FIRST FLOOR ELEVATION |
| TOF | TOP OF FOUNDATION ELEVATION |
| USF | UNDERSIDE OF FOOTING |

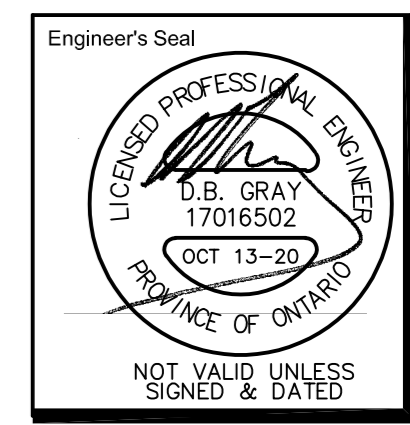


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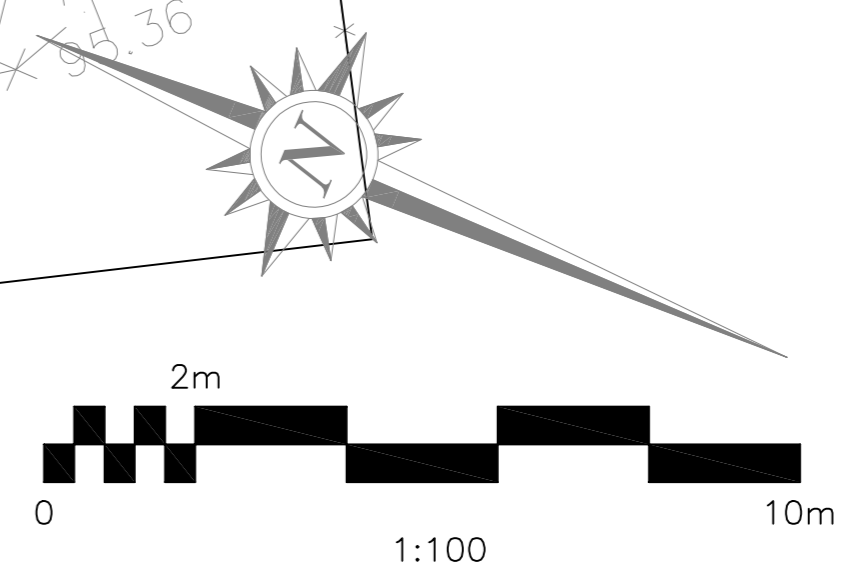
D. B. GRAY ENGINEERING INC.
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 700 Long Point Circle
 Ottawa, Ontario
 613-425-8044
 d.gray@dbgrayengineering.com

Project
**PROPOSED
 THREE STOREY APARTMENT
 BUILDING
 COURSE
 DUNBAR COURT
 OTTAWA, ONTARIO**

Drawing Title
**SITE SERVICING PLAN
 (NORTH)**

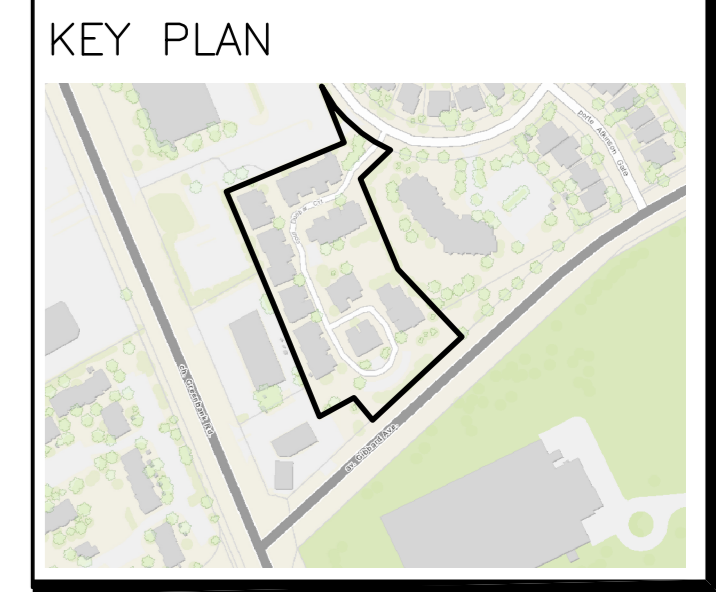


Engineer's Seal
 Drawn D.B.G.
 Hor. Scale 1:100
 Vert. Scale
 Date JAN 21-20
 Job No. 19062
 Drawing No.
**C-2
 of 9**



DRAWING LEGEND

- CB CATCH BASIN
- MH MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- SPL SPRINGLINE OF PIPE
- INV INVERT OF PIPE
- SAN SANITARY SEWER
- ST STORM SEWER
- WS/WM WATER SERVICE/WATERMAIN
- CS CURB STOP & STANDPOST
- VB VALVE & VALVE BOX
- FR FIRE HYDRANT
- ROOF DRAIN
- WATER METER
- REMOTE WATER METER READOUT
- EXISTING GRADE ELEVATION
- PROPOSED GRADE ELEVATION
- EXISTING SLOPE OF GRADE
- PROPOSED SLOPE OF GRADE
- TOP OF SLOPE
- BOTTOM OF SLOPE
- CENTERLINE OF SWALE
- PROPERTY LINE
- SILT FENCE BARRIER
- 150mm CURB/DEPRESSED CURB
- ASPHALT PAVEMENT
- ASPHALT WALKWAY
- CONCRETE
- LANDSCAPE
- FFL FIRST FLOOR ELEVATION
- TOF TOP OF FOUNDATION ELEVATION
- USF UNDERSIDE OF FOOTING

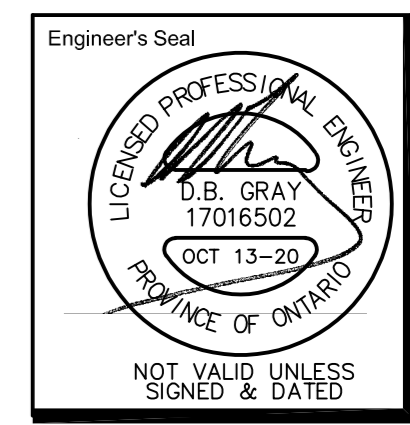


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 Ottawa, Ontario d.gray@dbgrayengineering.com

Project **PROPOSED THREE STOREY APARTMENT BUILDING DUNBAR COURT OTTAWA, ONTARIO**

Drawing Title **EXISTING CONDITIONS & DECOMMISSIONING**



Drawn **D.B.G.**
 Hor. Scale 1:100
 Vert. Scale
 Date **JAN 21-20**
 Job No. 19062
 Drawing No. **C-3**
 of 9



DRAWING LEGEND

- CB [Symbol] CATCH BASIN
- MH [Symbol] MANHOLE
- CB/MH [Symbol] CATCH BASIN/MANHOLE
- SPL [Symbol] SPRINGLINE OF PIPE
- INV [Symbol] INVERT OF PIPE
- SS [Symbol] SANITARY SEWER
- ST [Symbol] STORM SEWER
- WS/WM [Symbol] WATER SERVICE/WATERMAIN
- CS [Symbol] CURB STOP & STANDPOST
- VB [Symbol] VALVE & VALVE BOX
- FH [Symbol] FIRE HYDRANT
- [Symbol] ROOF DRAIN
- [Symbol] WATER METER
- [Symbol] REMOTE WATER METER READOUT
- +67.80 [Symbol] EXISTING GRADE ELEVATION
- +67.89 [Symbol] PROPOSED GRADE ELEVATION
- 2% [Symbol] EXISTING SLOPE OF GRADE
- 2% [Symbol] PROPOSED SLOPE OF GRADE
- T.O.S [Symbol] TOP OF SLOPE
- B.O.S [Symbol] BOTTOM OF SLOPE
- [Symbol] CENTERLINE OF SWALE
- [Symbol] PROPERTY LINE
- [Symbol] SILT FENCE BARRIER
- [Symbol] 150mm CURB/DEPRESSED CURB
- [Symbol] ASPHALT PAVEMENT
- [Symbol] ASPHALT WALKWAY
- [Symbol] CONCRETE
- [Symbol] LANDSCAPE
- FFL [Symbol] FIRST FLOOR ELEVATION
- TOF [Symbol] TOP OF FOUNDATION ELEVATION
- USF [Symbol] UNDERSIDE OF FOOTING

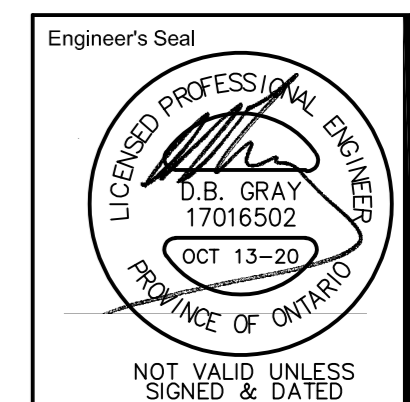


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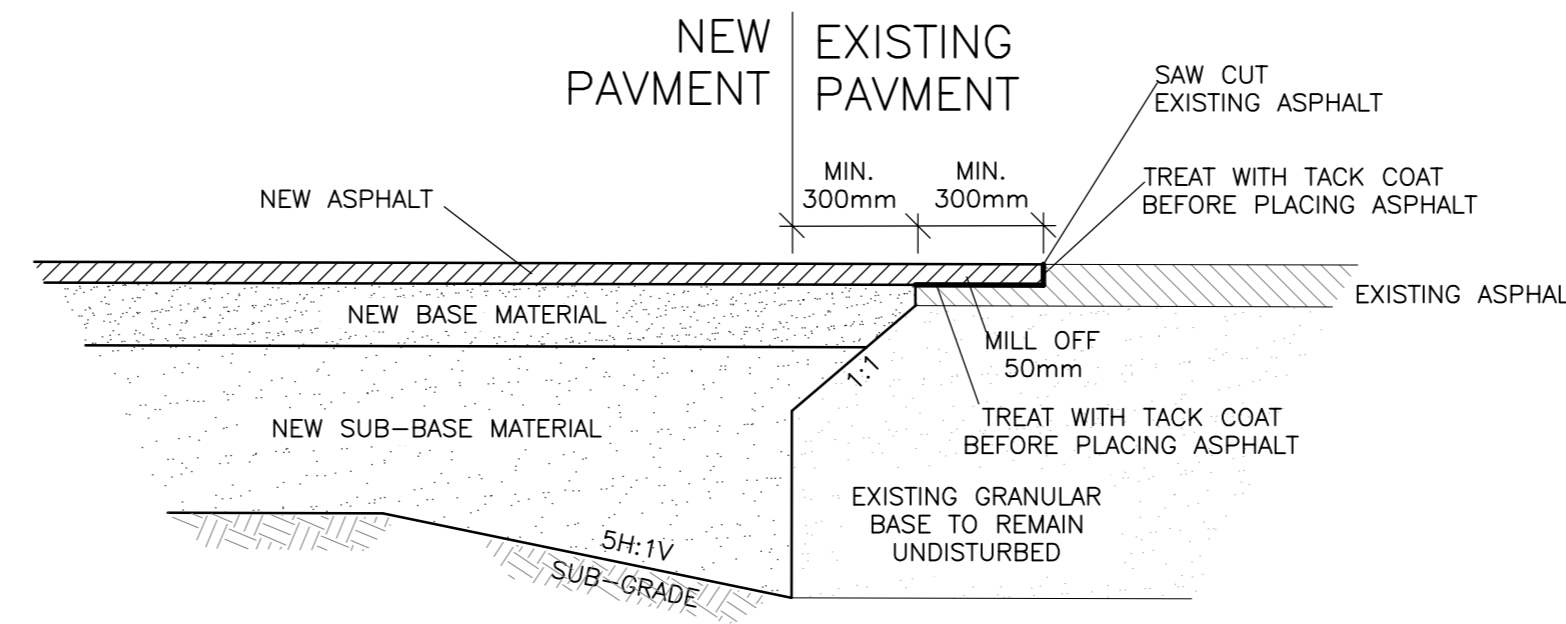
Project
PROPOSED THREE STOREY APARTMENT BUILDING DUNBAR COURT OTTAWA, ONTARIO

Drawing Title
GRADING PLAN AND EROSION & SEDIMENTS CONTROL PLAN (SOUTH)

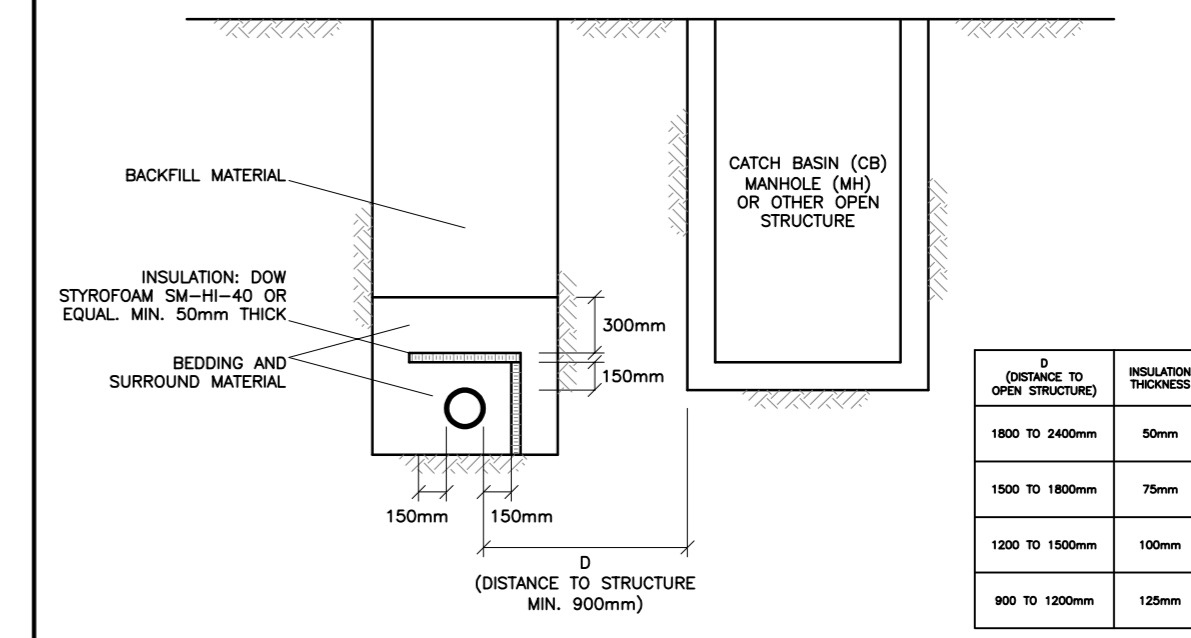


Engineer's Seal
 Drawn D.B.G.
 Hor. Scale 1:100
 Vert. Scale
 Date JAN 21-20
 Job No. 19062
 Drawing No.
C-5
 of 9

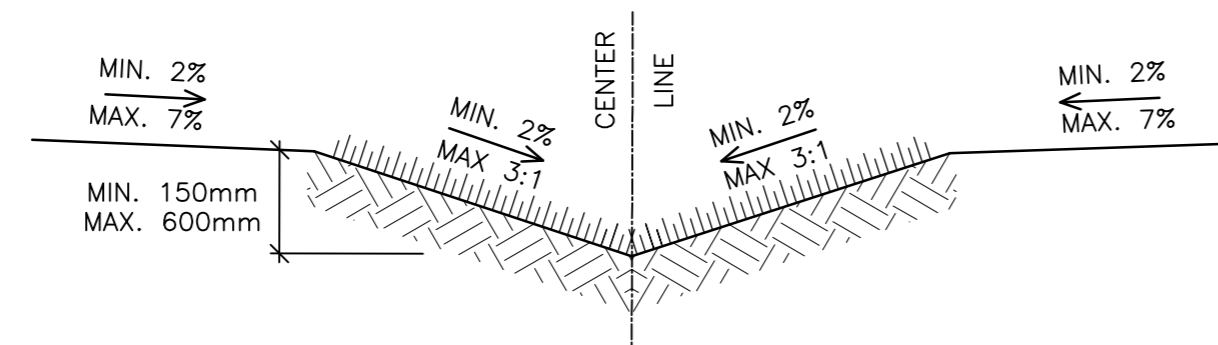
REFER TO NOTES & DETAILS ON DRAWING C-5 & C-6



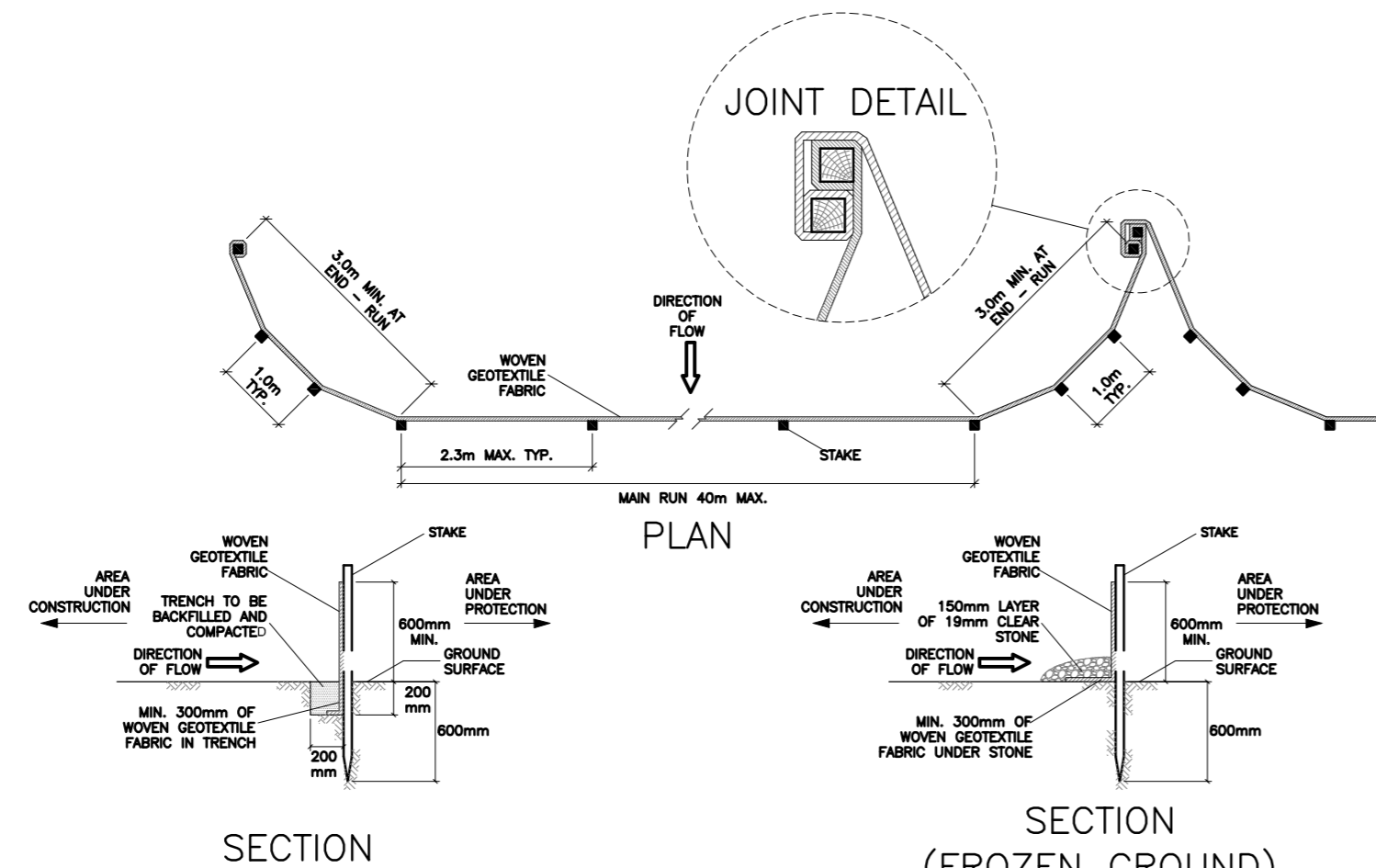
PAVEMENT TRANSITIONS
N.T.S.



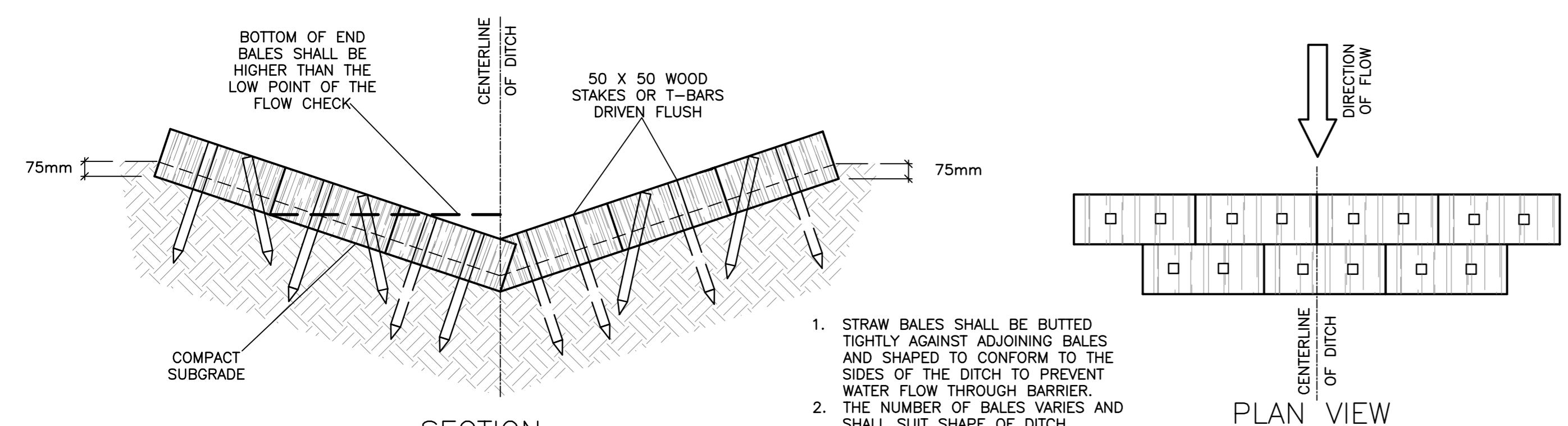
INSULATE SEWER AS INDICATED.
 CENTER INSULATION OVER PIPE.
 JOINTS BETWEEN SHEETS OF INSULATION SHALL BE STAGGERED.
 INSULATION OF WATERMAINS & WATER SERVICE CONNECTIONS AT OPEN STRUCTURES
 AS PER CITY OF OTTAWA DRAWING NO. W23
 N.T.S.



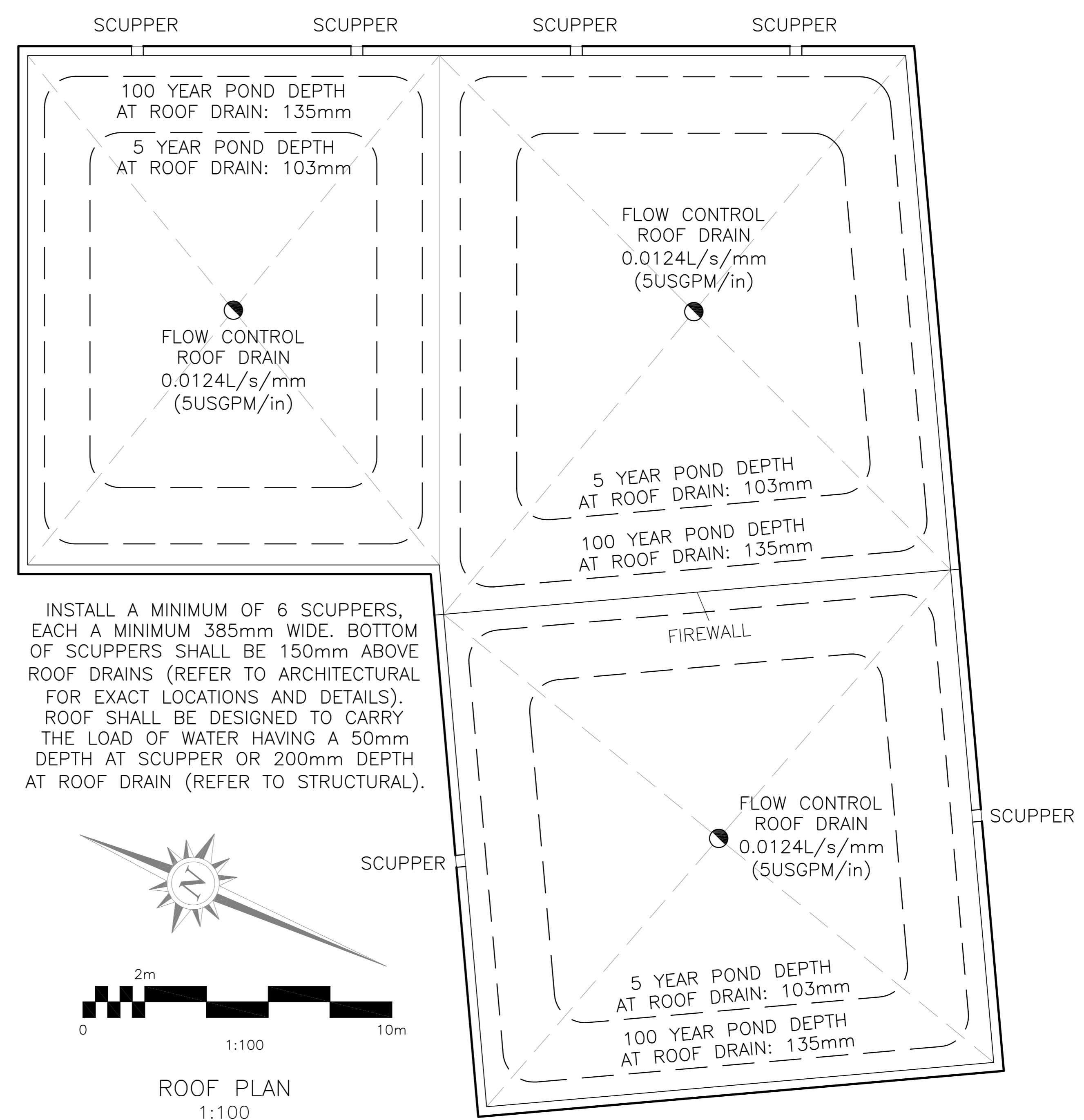
SECTION SWALE
AS PER CITY OF OTTAWA DRAWING S29
N.T.S.



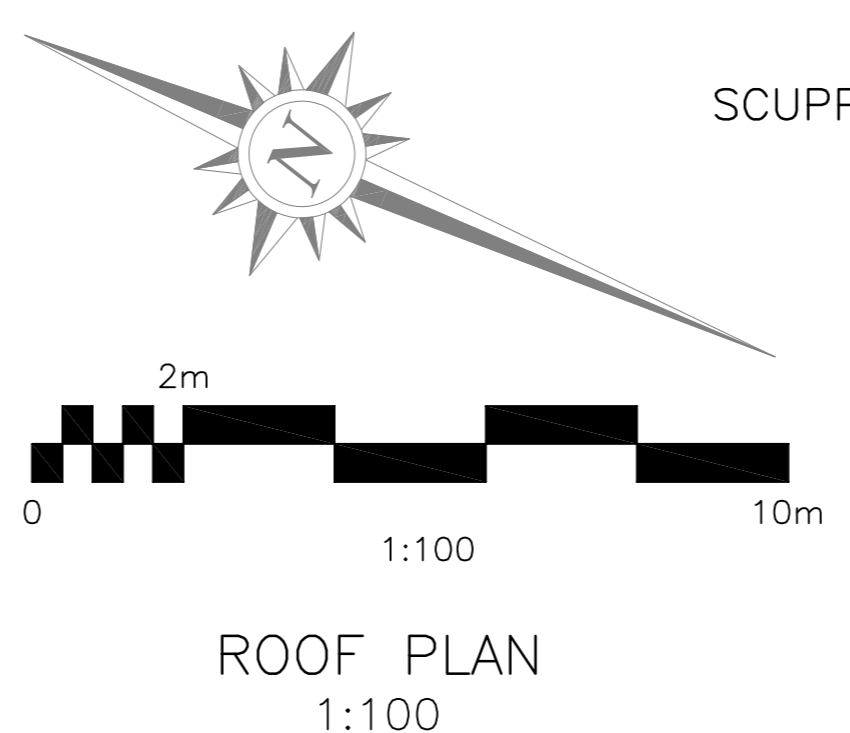
SILT FENCE BARRIER
AS PER OPSD 219.110
(MODIFIED FOR FROZEN GROUND)
N.T.S.



1. STRAW BALES SHALL BE BUTTED TIGHTLY AGAINST ADJOINING BALES AND SHAPED TO CONFORM TO THE SIDES OF THE DITCH TO PREVENT WATER FLOW THROUGH BARRIER.
 2. THE NUMBER OF BALES VARIES AND SHALL SUIT SHAPE OF DITCH.
 3. STAKES SHALL BE EQUALLY SPACED
 4. BALE TIES SHALL NOT BE IN CONTACT WITH GROUND.
 STRAW BALE FLOW CHECK DAM
AS PER OPSD 219.180
N.T.S.



INSTALL A MINIMUM OF 6 SCUPPERS, EACH A MINIMUM 385mm WIDE. BOTTOM OF SCUPPERS SHALL BE 150mm ABOVE ROOF DRAINS (REFER TO ARCHITECTURAL FOR EXACT LOCATIONS AND DETAILS). ROOF SHALL BE DESIGNED TO CARRY THE LOAD OF WATER HAVING A 50mm DEPTH AT SCUPPER OR 200mm DEPTH AT ROOF DRAIN (REFER TO STRUCTURAL).



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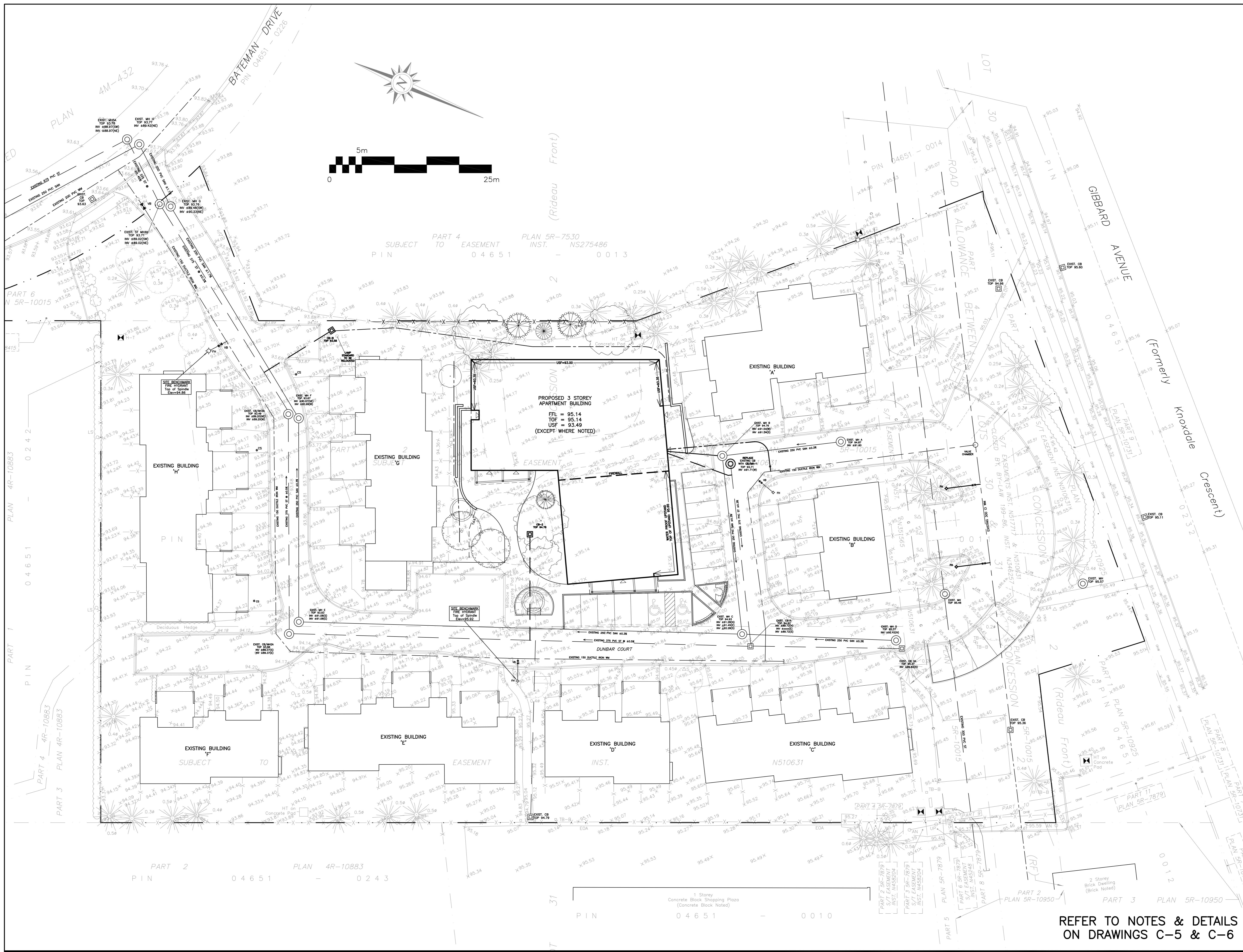
Project
PROPOSED THREE STOREY APARTMENT BUILDING DUNBAR COURT OTTAWA, ONTARIO

Drawing Title
DETAILS

Engineer's Seal

 D.B. GRAY
 17016502
 OCT 13-20
 PROVINCE OF ONTARIO
 NOT VALID UNLESS SIGNED & DATED

Drawn D.B.G.
 Hor. Scale 1:100
 Vert. Scale
 Date JAN 21-20
 Job No. 19062
 Drawing No. **C-7**
 of 9



DRAWING LEGEND

- CB CATCH BASIN
- MH MANHOLE
- CB/MH CATCH BASIN/MANHOLE
- SPL SPRINGLINE OF PIPE
- INV INVERT OF PIPE
- SAN SANITARY SEWER
- ST STORM SEWER
- WS/WM WATER SERVICE/WATERMAIN
- CS CURB STOP & STANDPOST
- VB VALVE & VALVE BOX
- FH FIRE HYDRANT
- RD ROOF DRAIN
- WM WATER METER
- RM REMOTE WATER METER READOUT
- EG EXISTING GRADE ELEVATION
- PG PROPOSED GRADE ELEVATION
- ES EXISTING SLOPE OF GRADE
- PS PROPOSED SLOPE OF GRADE
- TS TOP OF SLOPE
- BS BOTTOM OF SLOPE
- CL CENTERLINE OF SWALE
- PL PROPERTY LINE
- SFB SILT FENCE BARRIER
- CC 150mm CURB/DEPRESSED CURB
- AP ASPHALT PAVEMENT
- AW ASPHALT WALKWAY
- CON CONCRETE
- LAN LANDSCAPE
- FFL FFL FIRST FLOOR ELEVATION
- TOF TOP OF FOUNDATION ELEVATION
- USF UNDERSIDE OF FOOTING

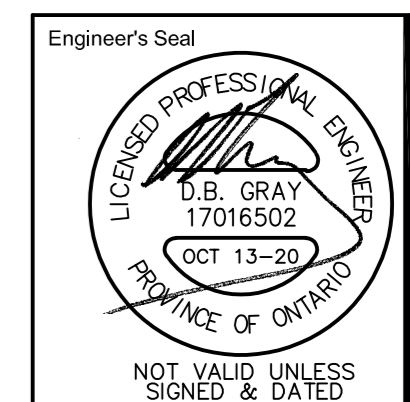


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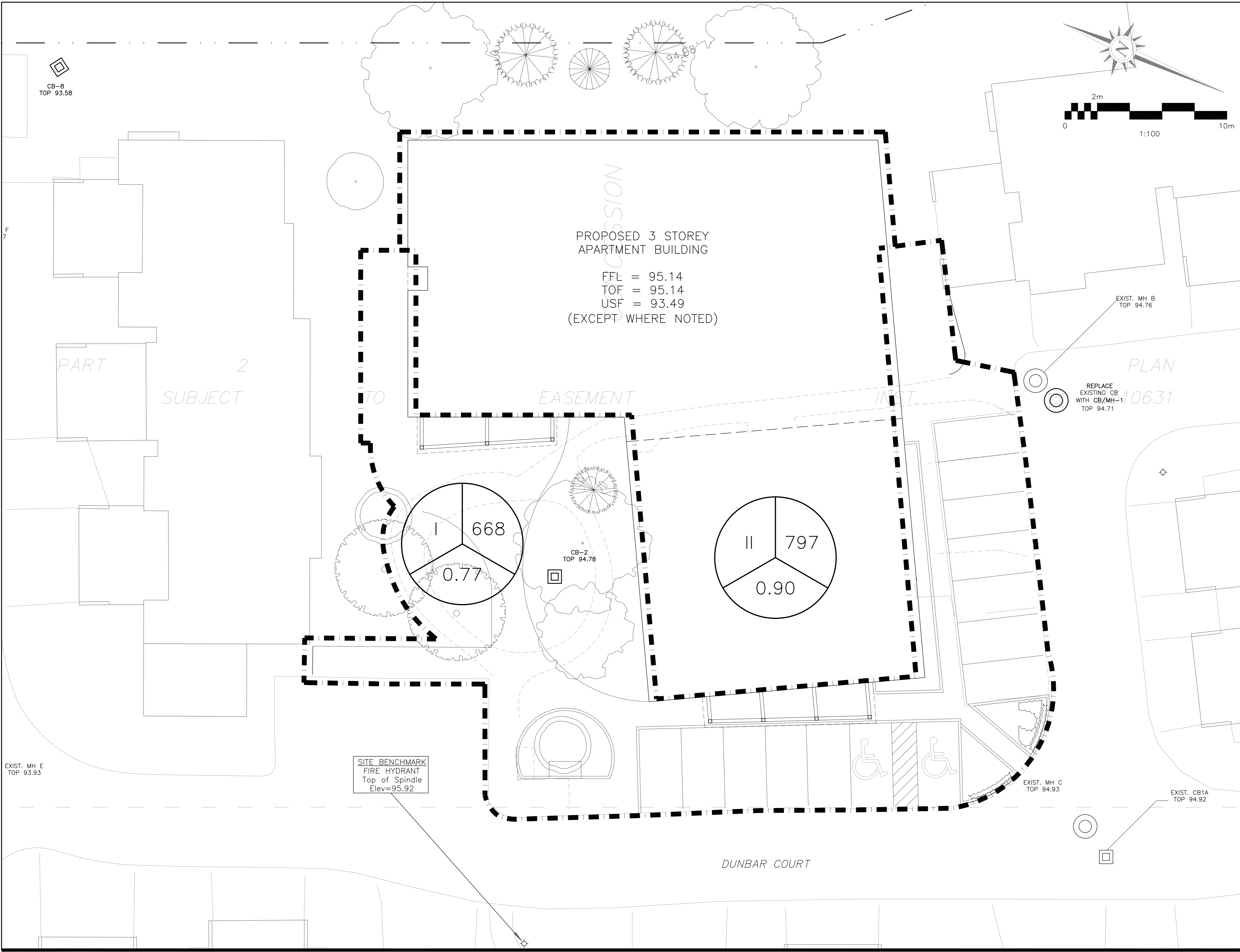
Project **PROPOSED THREE STOREY APARTMENT BUILDING DUNBAR COURT OTTAWA, ONTARIO**

Drawing Title **OVERALL SITE PLAN**



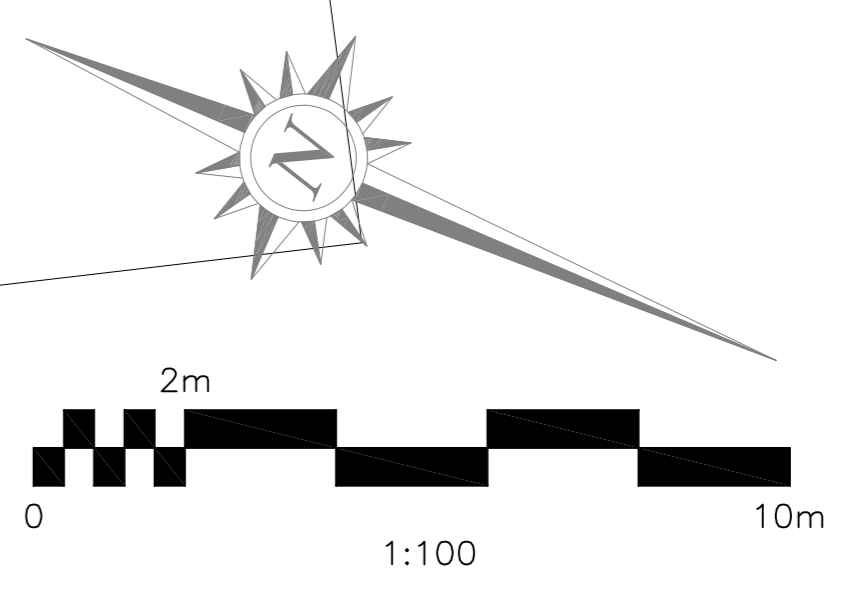
Drawn **D.B.G.**
 Hor. Scale **1:250**
 Vert. Scale
 Date **JAN 21-20**
 Job No. **19062**
 Drawing No. **C-8 of 9**

REFER TO NOTES & DETAILS ON DRAWINGS C-5 & C-6

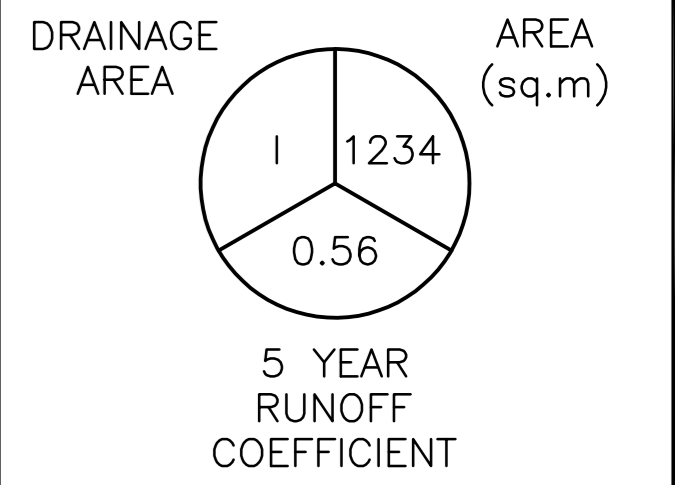


PROPOSED 3 STOREY
APARTMENT BUILDING

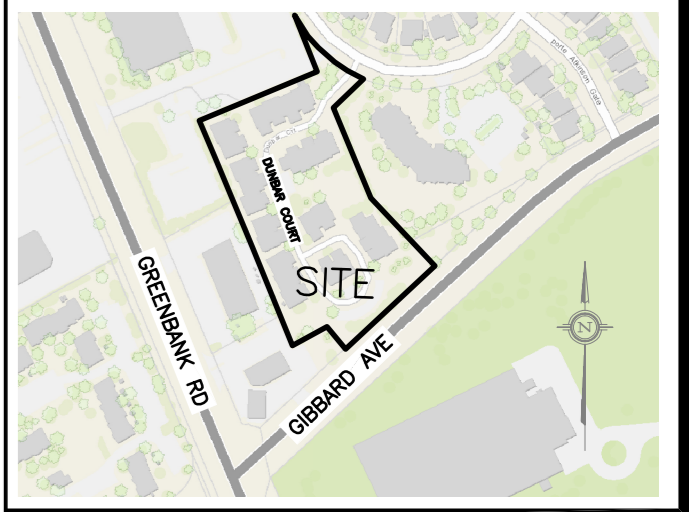
FFL = 95.14
TOF = 95.14
USF = 93.49
(EXCEPT WHERE NOTED)



LEGEND



KEY PLAN

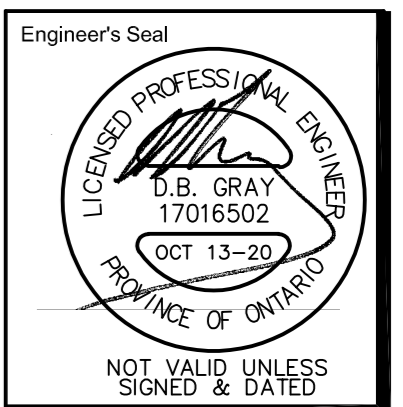


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Project
PROPOSED THREE STOREY APARTMENT BUILDING
DUNBAR COURT
 OTTAWA, ONTARIO

Drawing Title
DRAINAGE PLAN



Engineer's Seal
 Drawn **D.B.G.**
 Hor. Scale 1:100
 Vert. Scale
 Date **JAN 21-20**
 Job No. **19062**
 Drawing No.
C-9
 of **9**