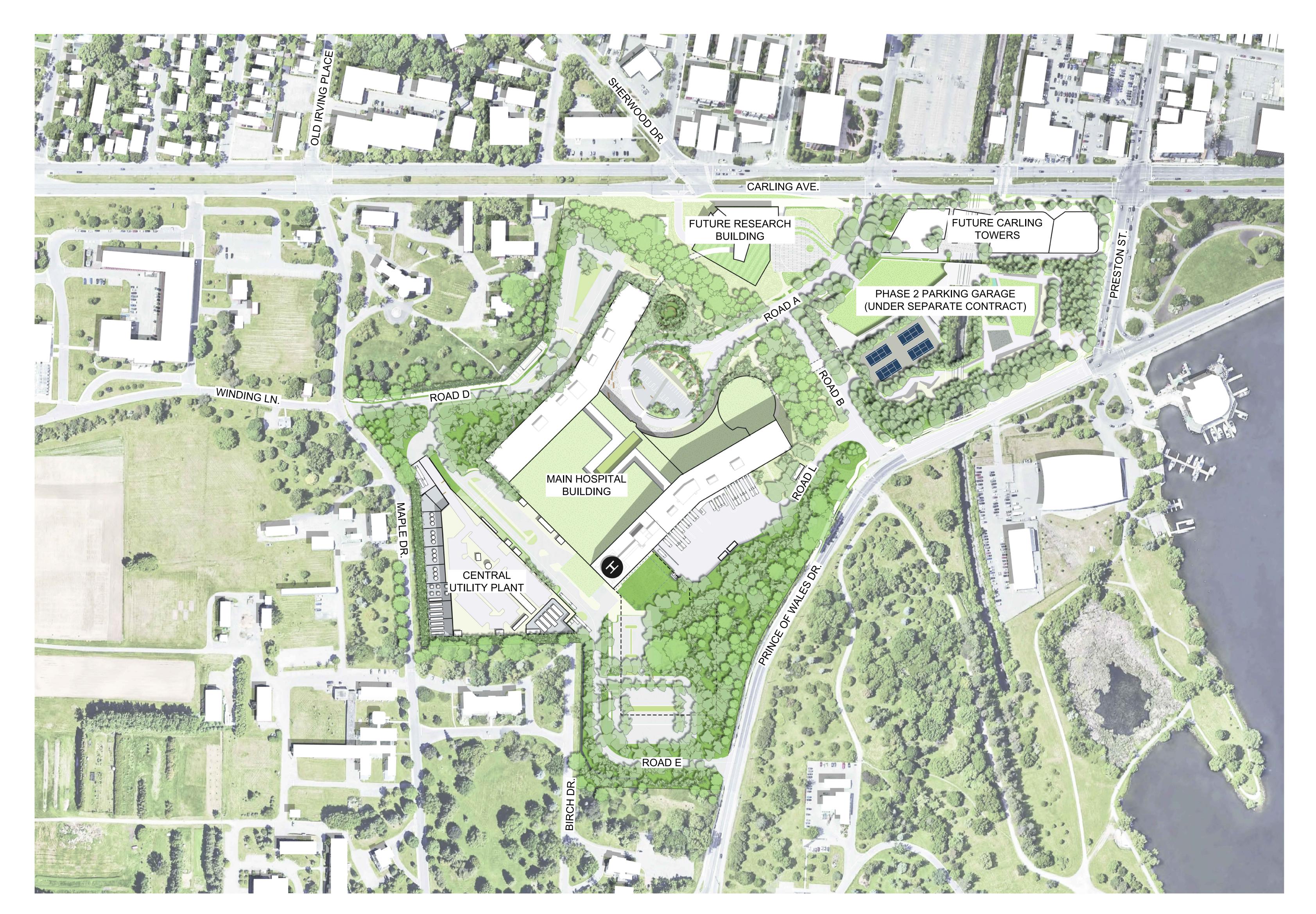
THE OTTAWA HOSPITAL



SHEET NUMBER	SHEET NAME
C100	ILLUSTRATIVE SITE PLAN / INDEX OF DRAWINGS
C101	STAGE 3: HOSPITAL EROSION AND SEDIMENT CONTROL PLAN
C102	STAGE 3: HOSPITAL REMOVALS
C103	STAGE 3: HOSPITAL SITE SERVICING PLAN 1 0F 6
C104	STAGE 3: HOSPITAL SITE SERVICING PLAN 2 0F 6
C105	STAGE 3: HOSPITAL SITE SERVICING PLAN 3 0F 6
C106	STAGE 3: HOSPITAL SITE SERVICING PLAN 4 0F 6
C107	STAGE 3: HOSPITAL SITE SERVICING PLAN 5 0F 6
C108	STAGE 3: HOSPITAL SITE SERVICING PLAN 6 0F 6
C109	STAGE 3: HOSPITAL EXISTING GRADING PLAN
C110	STAGE 3: HOSPITAL GRADING PLAN 1 OF 6
C111	STAGE 3: HOSPITAL GRADING PLAN 2 OF 6
C112	STAGE 3: HOSPITAL GRADING PLAN 3 OF 6
C113	STAGE 3: HOSPITAL GRADING PLAN 4 OF 6
C114	STAGE 3: HOSPITAL GRADING PLAN 5 OF 6
C115	STAGE 3: HOSPITAL GRADING PLAN 6 OF 6
C116	STAGE 3: HOSPITAL DETAILS 1
C117	STAGE 3: HOSPITAL DETAILS 2
C118	STAGE 3: HOSPITAL DETAILS 3
C119	STAGE 3: HOSPITAL DETAILS SERVICING TABLES

THESE DRAWINGS ARE FOR INFORMATION PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A BASIS FOR CONSTRUCTION. ANY USE OR MODIFICATION OF THESE DRAWINGS IS ENTIRELY AT THE USER'S OWN RISK. PLEASE REFER TO THE CONSTRUCTION-ISSUE DRAWINGS BEARING A PROFESSIONAL ENGINEER'S STAMP FOR DEFINITIVE INFORMATION.

CITY OF OTTAWA FILE # D07-12-22-0168 CITY PLAN# 18891





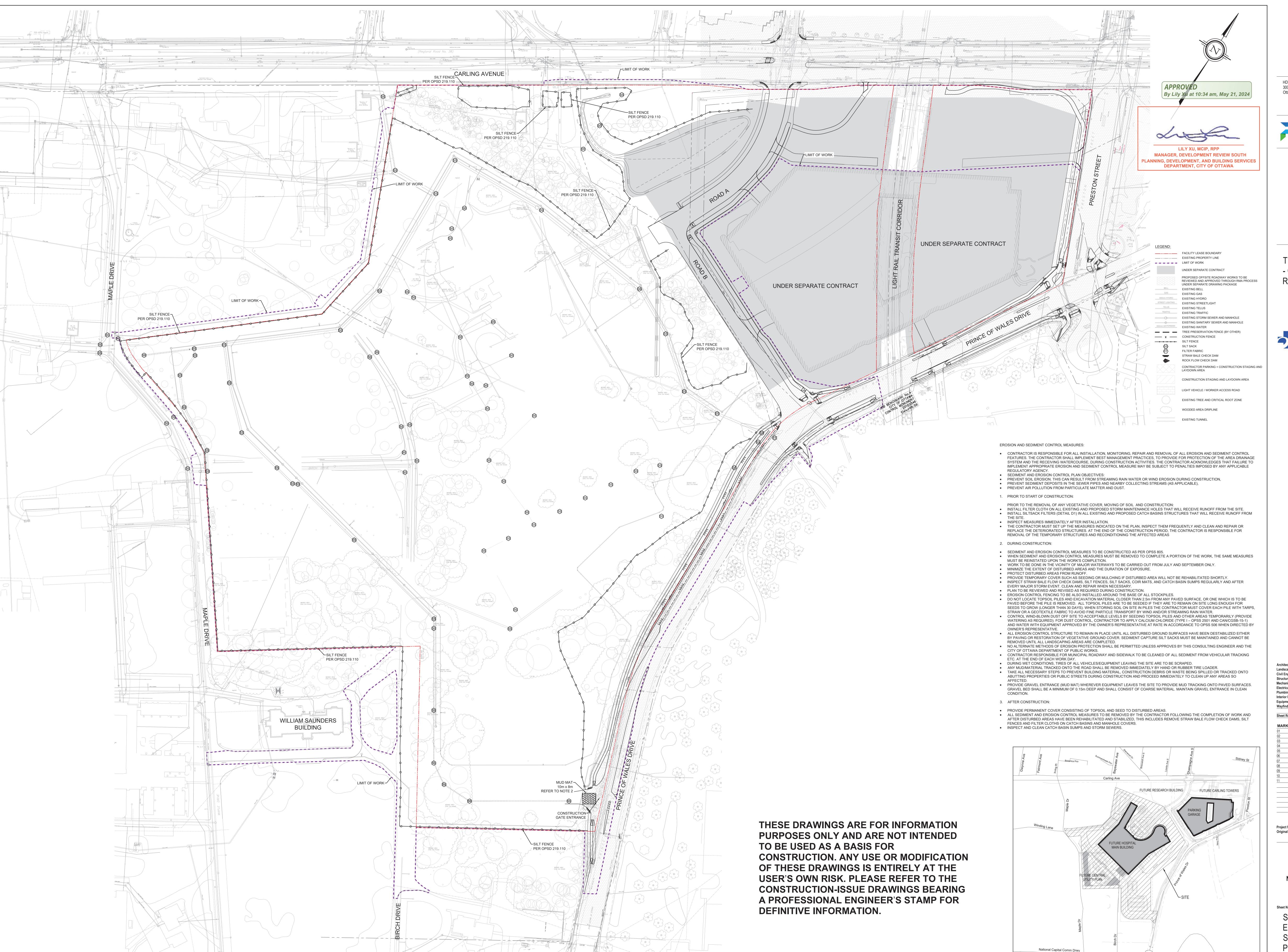


PRELIMINARY NOT FOR CONSTRUCTION

CIVIL INDEX OF **DRAWINGS**

C100

Project Status







THE OTTAWA HOSPITAL

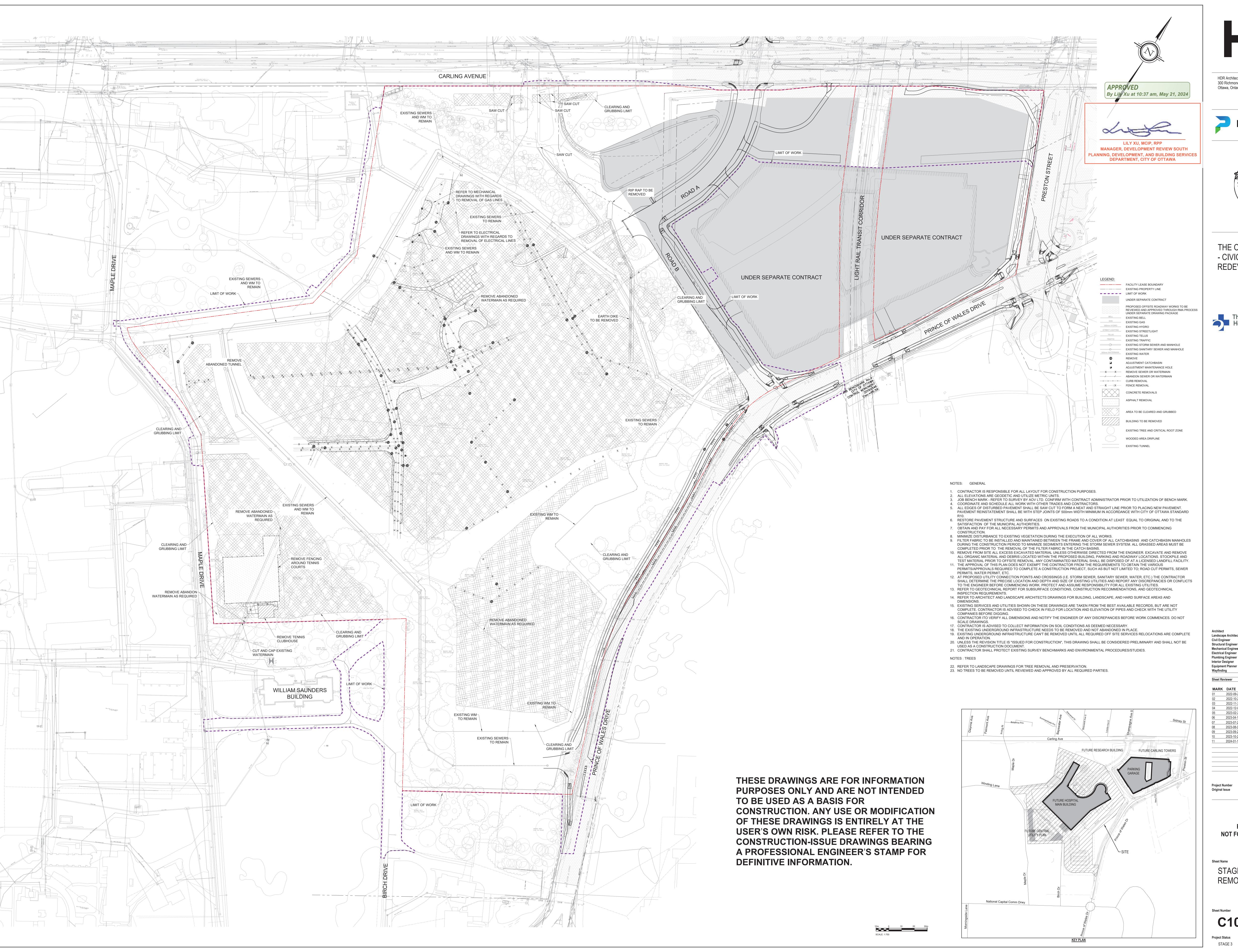


Landscape Architect Structural Engineer Plumbing Engineer Interior Designer **Equipment Planner** Wayfinding

2022-09-23 ISSUED FOR PRE-CONSULTATION 2022-10-28 DRAFT FOR 90% SD 3 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISS 2023-02-24 ISSUED FOR RFP VERSION 1.0 06 2023-04-12 RE-ISSUED FOR SPC & FLUD/ 08 2023-08-04 RE-ISSUED FOR PSOS

NOT FOR CONSTRUCTIO

C101









THE OTTAWA HOSPITAL



2023-02-24 ISSUED FOR RFP VERSION 1.0 2023-04-12 RE-ISSUED FOR SPC & FLUE

NOT FOR CONSTRUCTION

C102



PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A BASIS FOR CONSTRUCTION. ANY USE OR MODIFICATION OF THESE DRAWINGS IS ENTIRELY AT THE USER'S OWN RISK. PLEASE REFER TO THE CONSTRUCTION-ISSUE DRAWINGS BEARING A PROFESSIONAL ENGINEER'S STAMP FOR DEFINITIVE INFORMATION.

THESE DRAWINGS ARE FOR INFORMATION

NOTES: GENERAL

CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.
 ALL ELEVATIONS ARE GEODETIC AND UTILIZE METRIC UNITS.

JOB BENCH MARK - REFER TO SURVEY BY AOV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK.
 ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED.

5. STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS.
6. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.
 ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103.
 CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.
 RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.

SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 206, 310 & 314. MATERIALS TO OPSS 1001, 1003 & 1010.

11. ABUTTING PROPERTY GRADE TO BE MATCHED.

12. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING CONSTRUCTION.

10. ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND

MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.
 FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.
 REMOVE FROM SITE ALL EXCESS EXCAVATED MATERIAL UNLESS OTHERWISE DIRECTED FROM THE ENGINEER. EXCAVATE AND REMOVE ALL ORGANIC MATERIAL AND DEBRIS LOCATED WITHIN THE PROPOSED BUILDING, PARKING AND ROADWAY LOCATIONS. ANY CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY.
 THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS

PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO; ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC.

17. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.

18. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND

DIMENSIONS.

19. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND DIMENSIONS.

19. REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL INSPECTION REQUIREMENTS.

20. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

NOTES: WATERMAIN SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN

ACCORDANCE WITH CITY OF OTTAWA STANDARD W23.

23. WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.

24. CONCRETE THRUST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA STANDARD W25.3, W25.4 (TABLE 3), W25.5 AND W25.6.

25. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.

26. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER.

27. EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.
28. HYDRANT INSTALLATION SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD W19.
29. WATERMAIN AND SEWER CORSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

NOTES: SEWER
30. SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND SPECIFICATIONS.
31. SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED TRENCH

32. ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSS 407 AND 410.
 33. CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT ANY DISCREPANCIES TO THE ENGINNEER BEFORE COMMENCING ANY WORK.
 34. ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL D2.

35. CONTRACTOR TO CCTV ALL NEW SEWERS, 250mmØ OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS.
36. PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOUNDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14. REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.
37. SEWER CONNECTIONS TO BE MADE ABOVE THE SPRINGLINE OF THE SEWER AS PER CITY OF OTTAWA STANDARD S11, S11.1, AND S11.2.

38. INSTALLATION OF CATCH BASINS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S1 AND S2.
 39. CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S8.
 40. SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD

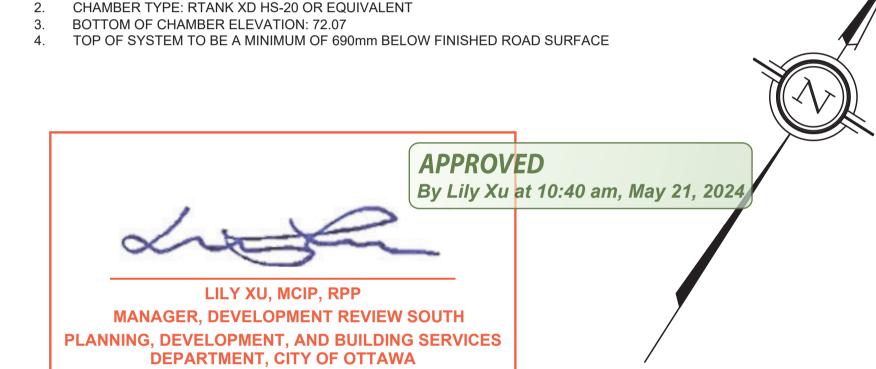
41. MAINENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPSD 1003.010.
42. BENCHING FOR SANITARY MAINTENANCE HOLES SHALL BE IN ACCORDANCE WITH OPSD 701.021.
43. ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED.

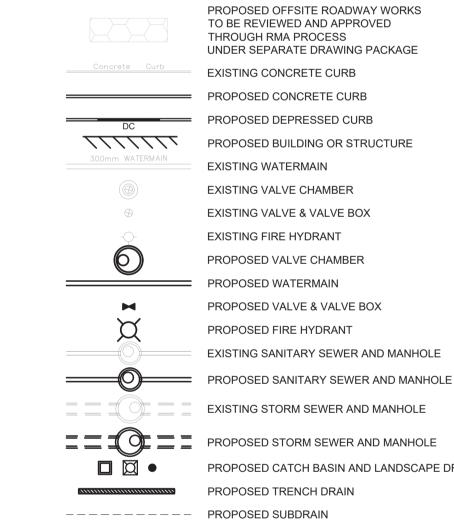
44. ROADWAY SUBDRAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.

45. REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.
46. INSTALL SAFETY PLATFORMS IN ACCORDANCE WITH OPSD 404.020 IN MAINTENANCE HOLES DEEPER THAN 5.0m.

CHAMBER 102 STORMWATER STORAGE NOTES:

UNDERGROUND STORMWATER STORAGE REQUIRED: 270.0 cu.m
 UNDERGROUND STORMWATER STORAGE PROVIDED: 270.0 cu.m
 CHAMBER TYPE: RTANK XD HS-20 OR EQUIVALENT





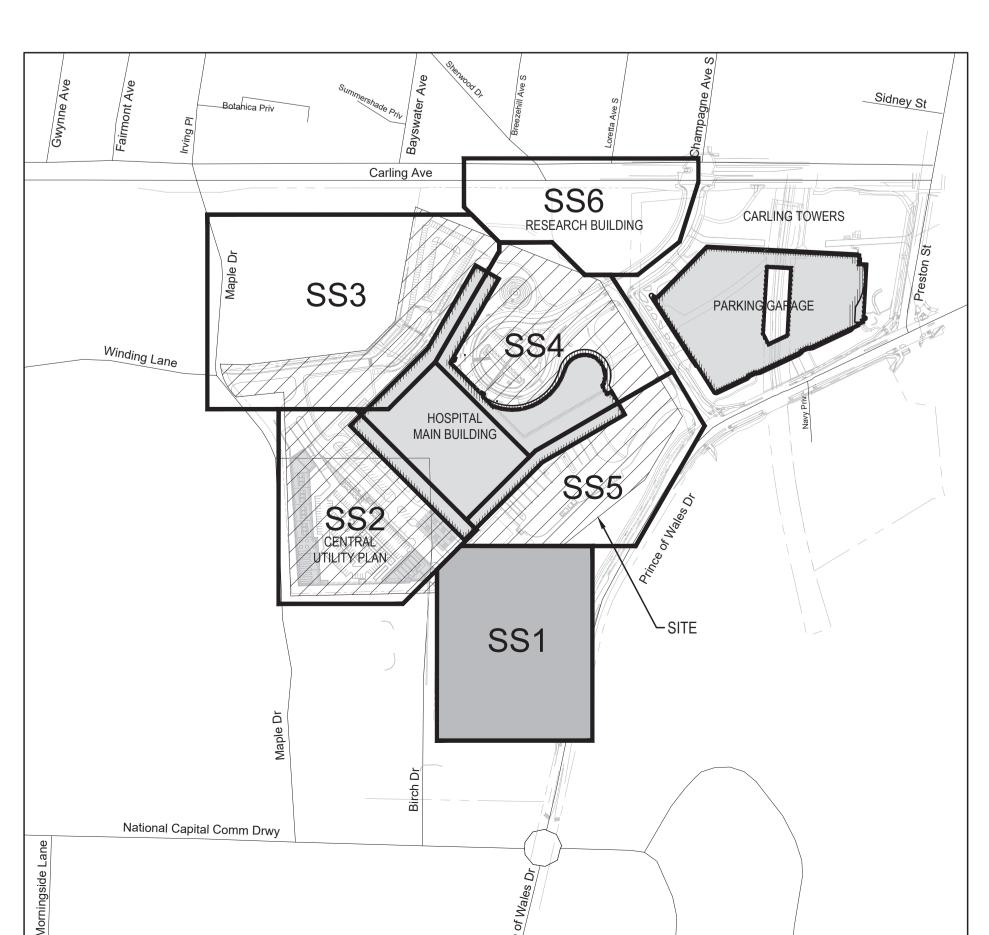
FACILITY LEASE BOUNDARY

—— — — EXISTING PROPERTY LINE

LIMIT OF WORK

PROPOSED STORM SEWER AND MANHOLE
PROPOSED CATCH BASIN AND LANDSCAPE DRAIN
PROPOSED TRENCH DRAIN
PROPOSED SUBDRAIN
PROPOSED PIPE INSULATION
PROPOSED BACKWATER VALVE
PROPOSED REMOTE METER
PROPOSED WATER METER
PROPOSED LIGHT STANDARD (BY OTHERS)
PROPOSED BOLLARD (BY OTHERS)
BOREHOLE
WOODED AREA DRIPLINE

EXISTING TREE AND CRITICAL ROOT ZONE





HDR Architecture Associates Inc. 300 Richmond Road, Suite 200 Ottawa, Ontario K1Z 6X6





THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



Architect
Landscape Architect
Civil Engineer
Structural Engineer
Mechanical Engineer
Electrical Engineer
Plumbing Engineer
Interior Designer
Equipment Planner
Wayfinding

Sheet Reviewer

MARK DATE
DESCRIPTION

01 2022-09-23 ISSUED FOR PRE-CONSULTATION

02 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION

 01
 2022-09-23
 ISSUED FOR PRE-CONSULTATION

 02
 2022-10-28
 DRAFT FOR 90% SD

 03
 2022-11-30
 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION

 04
 2022-12-02
 ISSUED FOR 3A1-2

 05
 2023-02-24
 ISSUED FOR RFP VERSION 1.0

 06
 2023-04-12
 RE-ISSUED FOR SPC & FLUDA

 07
 2023-07-28
 ISSUED FOR PSOS

 08
 2023-08-04
 RE-ISSUED FOR PSOS

 09
 2023-09-29
 ISSUED FOR REVIEW AND COSTING

 10
 2023-10-27
 ISSUED FOR MOH 3A.3

 11
 2024-01-17
 ISSUED FOR DELEGATED AUTHORITY REPOR

Project Number 10333982
Original Issue 02/21/23

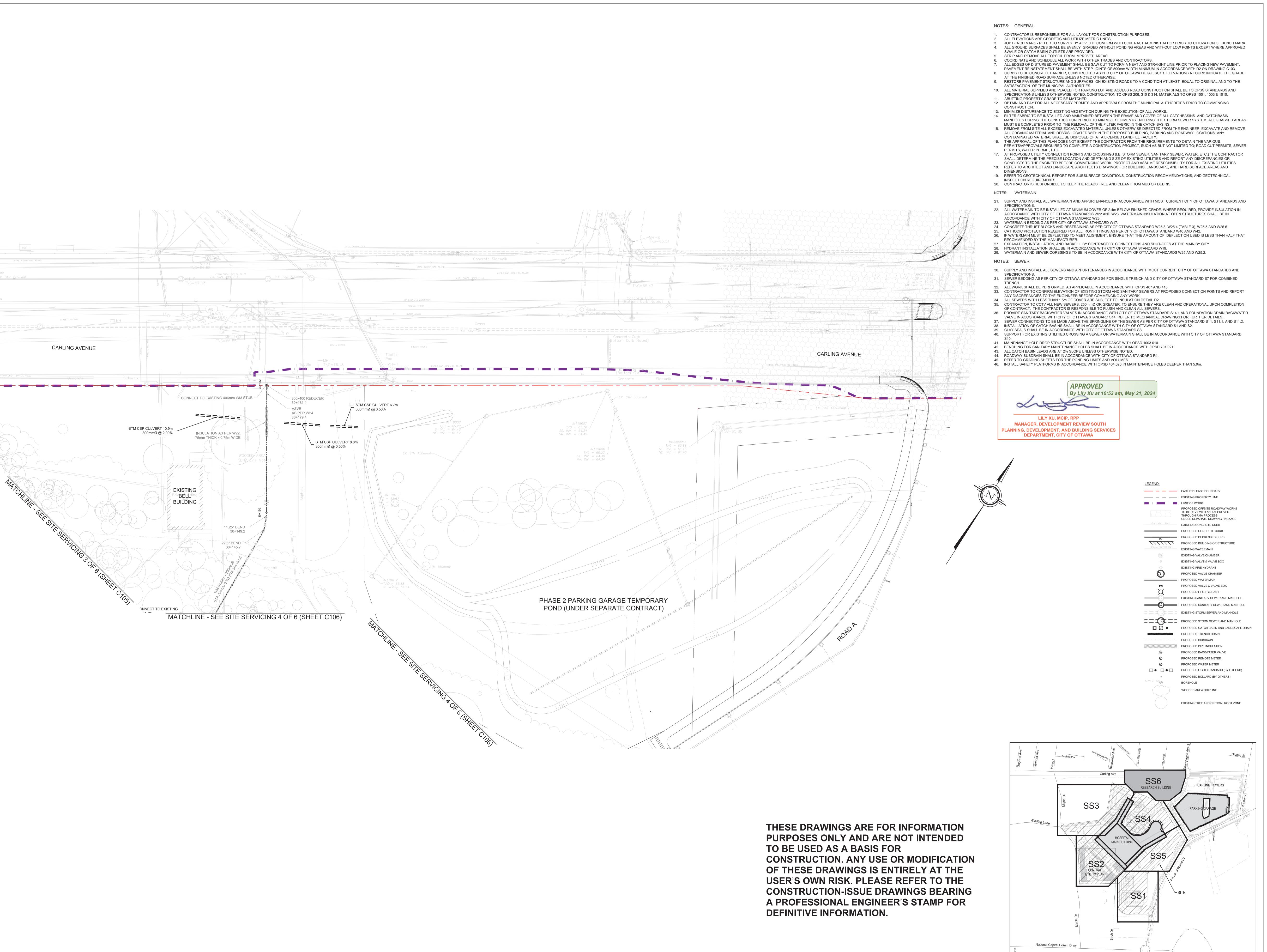
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NOT FOR CONSTRUCTION

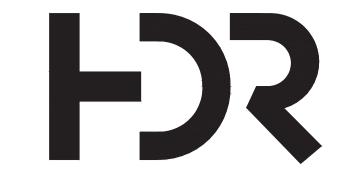
et Name

STAGE 3: HOSPITAL
SITE SERVICING PLAN
1 OF 6

Sheet Number

roject Status
STAGE 3









THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



Architect HDR
Landscape Architect HDR
Civil Engineer Parsons
Structural Engineer EXP
Mechanical Engineer Smith + Andersen
Electrical Engineer Smith + Andersen
Plumbing Engineer Smith + Andersen
Interior Designer HDR
Equipment Planner Colliers
Wayfinding

Sheet Reviewer Author

Project Number 1033398
Original Issue 02/21/23

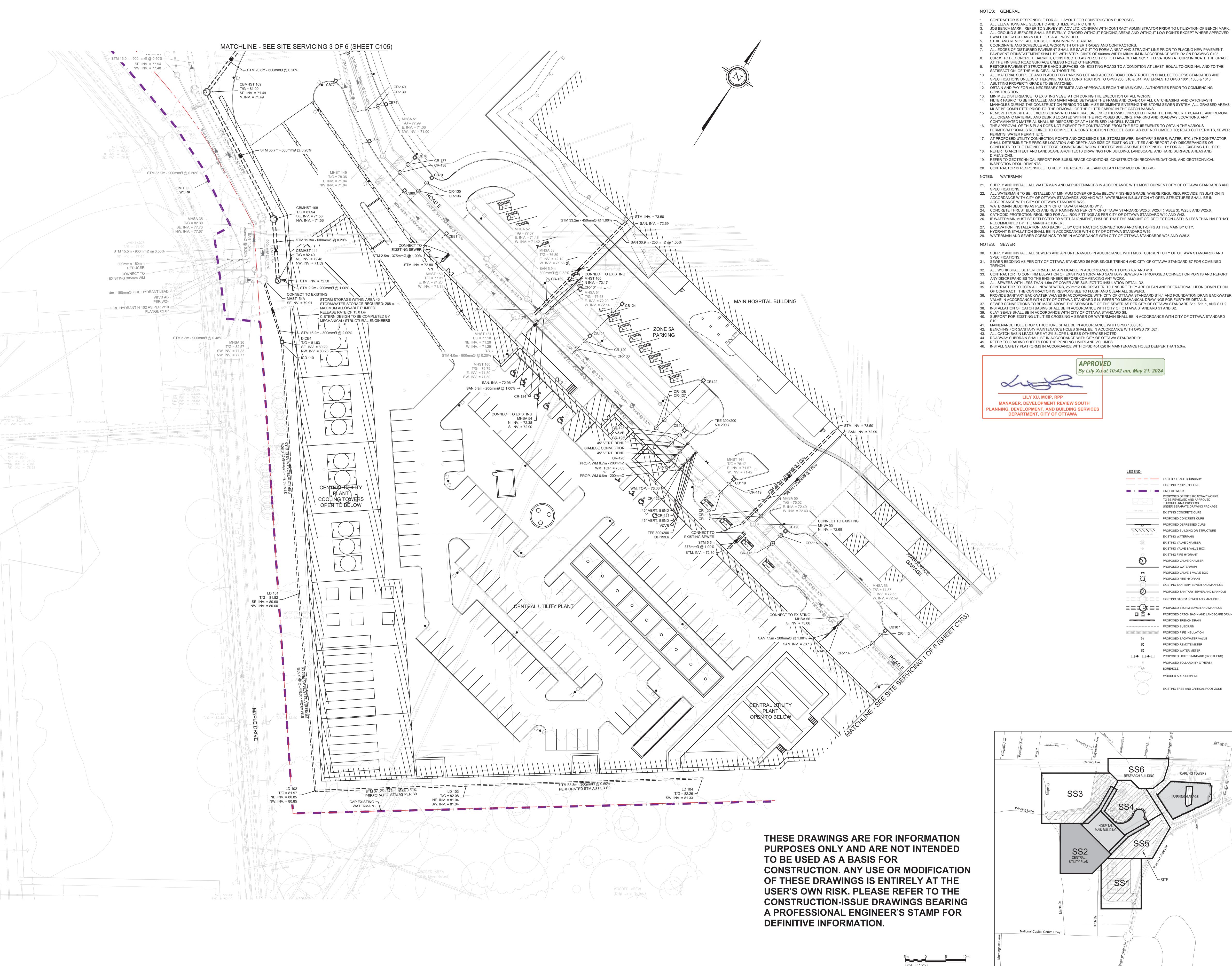
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NOT FOR CONSTRUCTION

STAGE 3: HOSPITAL SITE SERVICING PLAN S OF 6

eet Number

C108
Project Status



1. CONTRACTOR IS RESPONSIBLE FOR ALL LAYOUT FOR CONSTRUCTION PURPOSES.

4. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED SWALE OR CATCH BASIN OUTLETS ARE PROVIDED. 5. STRIP AND REMOVE ALL TOPSOIL FROM IMPROVED AREAS. 6. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103. 8. CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE.

9. RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE

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11. ABUTTING PROPERTY GRADE TO BE MATCHED. 12. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING

13. MINIMIZE DISTURBANCE TO EXISTING VEGETATION DURING THE EXECUTION OF ALL WORKS.

14. FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.

CONTAMINATED MATERIAL SHALL BE DISPOSED OF AT A LICENSED LANDFILL FACILITY. 16. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO; ROAD CUT PERMITS, SEWER

17. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.

19. REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL

20. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS.

21. SUPPLY AND INSTALL ALL WATERMAIN AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND 22. ALL WATERMAIN TO BE INSTALLED AT MINIMUM COVER OF 2.4m BELOW FINISHED GRADE. WHERE REQUIRED, PROVIDE INSULATION IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W22 AND W23. WATERMAIN INSULATION AT OPEN STRUCTURES SHALL BE IN

ACCORDANCE WITH CITY OF OTTAWA STANDARD W23. 23. WATERMAIN BEDDING AS PER CITY OF OTTAWA STANDARD W17.

24. CONCRETE THRUST BLOCKS AND RESTRAINING AS PER CITY OF OTTAWA STANDARD W25.3, W25.4 (TABLE 3), W25.5 AND W25.6. 25. CATHODIC PROTECTION REQUIRED FOR ALL IRON FITTINGS AS PER CITY OF OTTAWA STANDARD W40 AND W42.

26. IF WATERMAIN MUST BE DEFLECTED TO MEET ALIGNMENT, ENSURE THAT THE AMOUNT OF DEFLECTION USED IS LESS THAN HALF THAT RECOMMENDED BY THE MANUFACTURER. 27. EXCAVATION, INSTALLATION, AND BACKFILL BY CONTRACTOR. CONNECTIONS AND SHUT-OFFS AT THE MAIN BY CITY.

29. WATERMAIN AND SEWER CORSSINGS TO BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARDS W25 AND W25.2.

30. SUPPLY AND INSTALL ALL SEWERS AND APPURTENANCES IN ACCORDANCE WITH MOST CURRENT CITY OF OTTAWA STANDARDS AND 31. SEWER BEDDING AS PER CITY OF OTTAWA STANDARD S6 FOR SINGLE TRENCH AND CITY OF OTTAWA STANDARD S7 FOR COMBINED

32. ALL WORK SHALL BE PERFORMED, AS APPLICABLE IN ACCORDANCE WITH OPSS 407 AND 410. 33. CONTRACTOR TO CONFIRM ELEVATION OF EXISTING STORM AND SANITARY SEWERS AT PROPOSED CONNECTION POINTS AND REPORT

ANY DISCREPANCIES TO THE ENGINNEER BEFORE COMMENCING ANY WORK. 34. ALL SEWERS WITH LESS THAN 1.5m OF COVER ARE SUBJECT TO INSULATION DETAIL D2. 35. CONTRACTOR TO CCTV ALL NEW SEWERS, 250mmØ OR GREATER, TO ENSURE THEY ARE CLEAN AND OPERATIONAL UPON COMPLETION

OF CONTRACT. THE CONTRACTOR IS RESPONSIBLE TO FLUSH AND CLEAN ALL SEWERS. 36 PROVIDE SANITARY BACKWATER VALVES IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14.1 AND FOLINDATION DRAIN BACKWATER VALVE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S14. REFER TO MECHANICAL DRAWINGS FOR FURTHER DETAILS.

39. CLAY SEALS SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD S8. 40. SUPPORT FOR EXISTING UTILITIES CROSSING A SEWER OR WATERMAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD

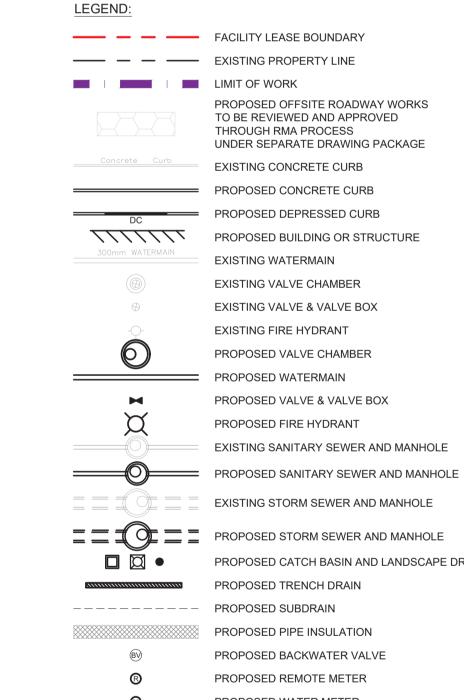
41. MAINENANCE HOLE DROP STRUCTURE SHALL BE IN ACCORDANCE WITH OPSD 1003.010.

43. ALL CATCH BASIN LEADS ARE AT 2% SLOPE UNLESS OTHERWISE NOTED. 44. ROADWAY SUBDRAIN SHALL BE IN ACCORDANCE WITH CITY OF OTTAWA STANDARD R1.

45. REFER TO GRADING SHEETS FOR THE PONDING LIMITS AND VOLUMES.

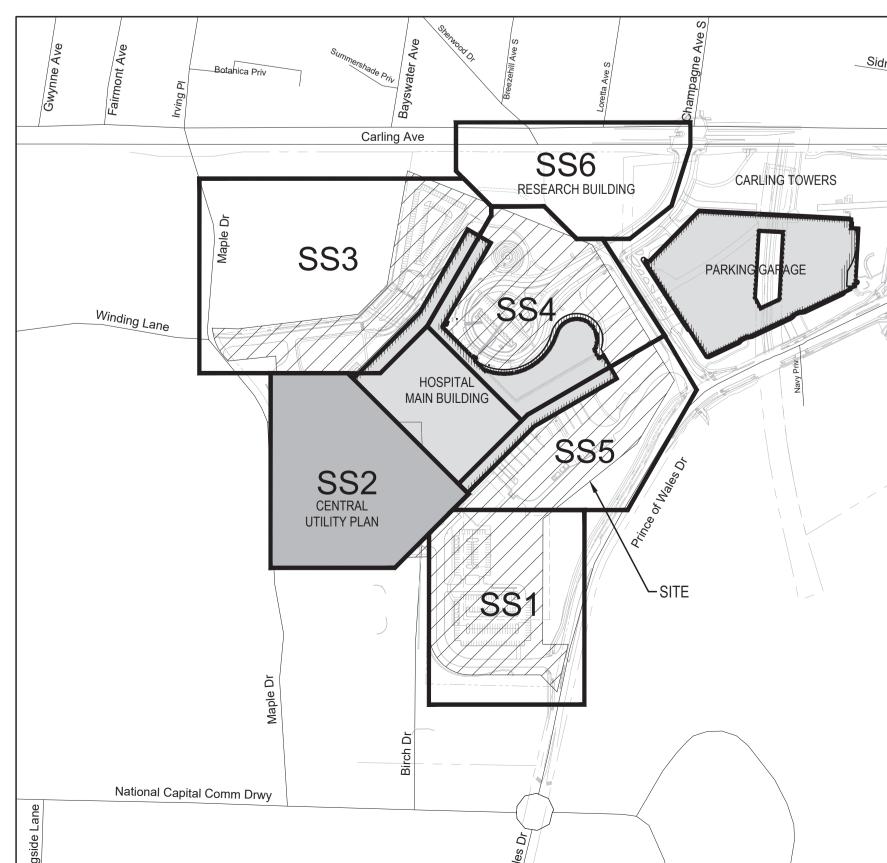
46. INSTALL SAFETY PLATFORMS IN ACCORDANCE WITH OPSD 404.020 IN MAINTENANCE HOLES DEEPER THAN 5.0m.

By Lily Xu at 10:42 am, May 21, 2024 LILY XU, MCIP, RPP MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, DEVELOPMENT, AND BUILDING SERVICES **DEPARTMENT, CITY OF OTTAWA**



PROPOSED WATER METER PROPOSED LIGHT STANDARD (BY OTHERS) WOODED AREA DRIPLINE

EXISTING TREE AND CRITICAL ROOT ZONE



HDR Architecture Associates Inc.

THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT

300 Richmond Road, Suite 200

Ottawa, Ontario K1Z 6X6

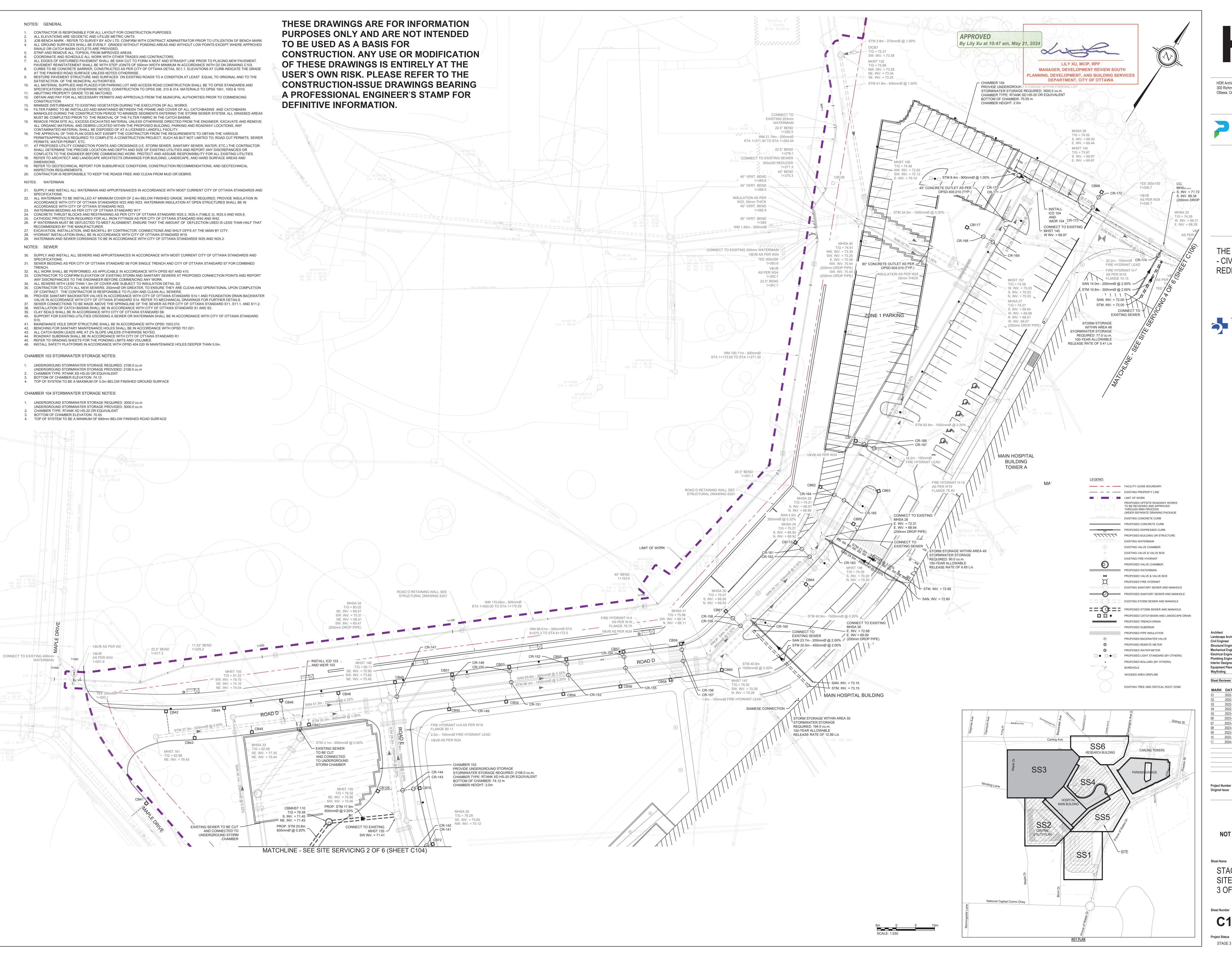
PRELIMINARY NOT FOR CONSTRUCTION

STAGE 3: HOSPITAL SITE SERVICING PLAN 💆

C104

STAGE 3

2 OF 6









THE OTTAWA HOSPITAL - CIVIC CAMPUS



Landscape Architect Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner**

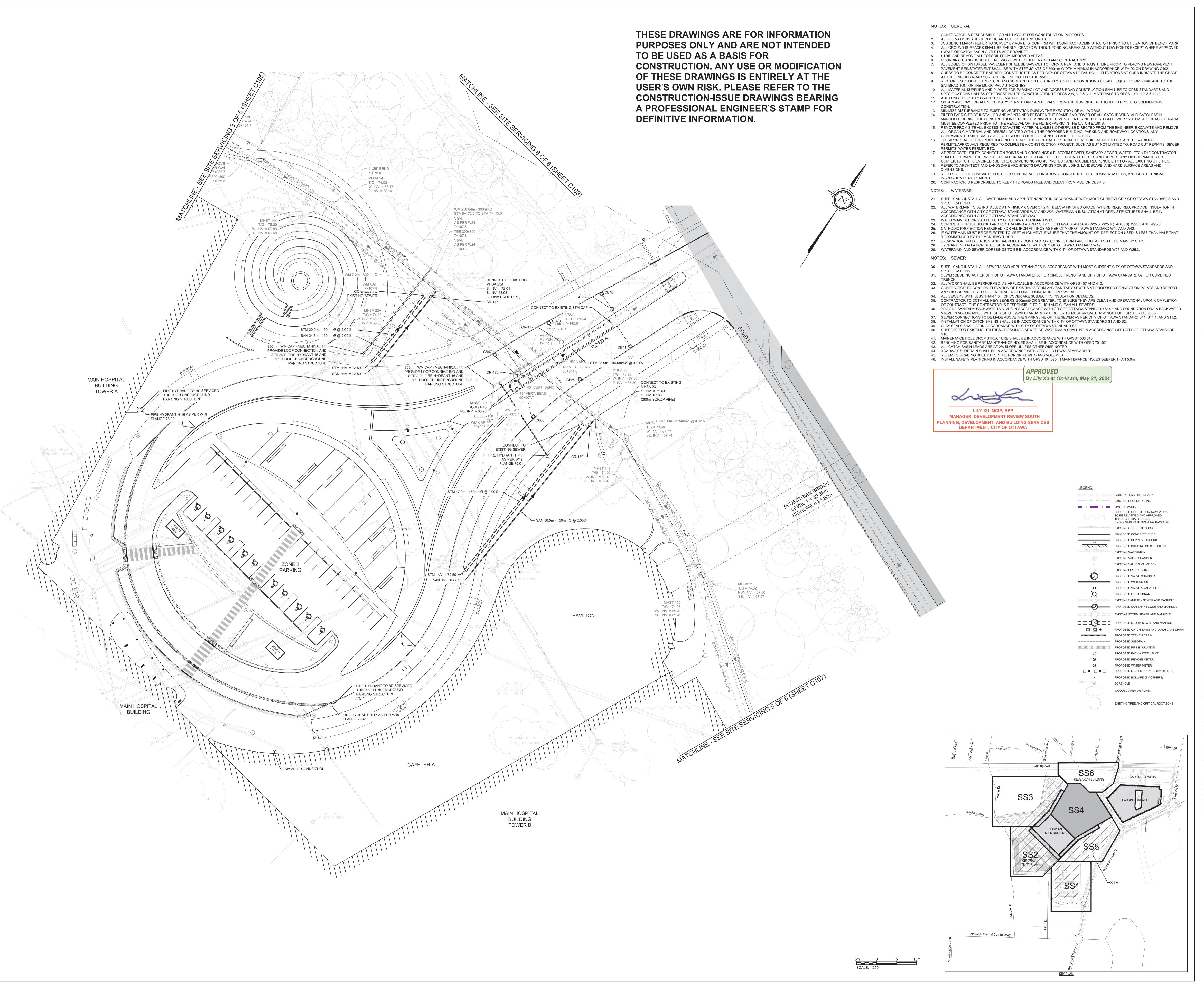
Sheet Reviewer 2022-09-23 ISSUED FOR PRE-CONSULTATION 2 2022-10-28 DRAFT FOR 90% SD 03 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION 4 2022-12-02 ISSUED FOR 3A1-2 2023-02-24 ISSUED FOR RFP VERSION 1.0 2023-04-12 RE-ISSUED FOR SPC & FLUDA 2023-07-28 ISSUED FOR PSOS 8 2023-08-04 RE-ISSUED FOR PSOS 9 2023-09-29 ISSUED FOR REVIEW AND COSTING

Project Number Original Issue

NOT FOR CONSTRUCTION

C105

Project Status STAGE 3









THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



Architect
Landscape Architect
Civil Engineer
Structural Engineer
Mechanical Engineer
Electrical Engineer
Plumbing Engineer
Interior Designer
Equipment Planner
Wayfinding

HDR
Sheet Reviewer

HDR
HDR
Colliers

HDR
Colliers

HDR
Colliers

 MARK
 DATE
 DESCRIPTION

 01
 2022-09-23
 ISSUED FOR PRE-CONSULTATION

 02
 2022-10-28
 DRAFT FOR 90% SD

 03
 2022-11-30
 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION

 04
 2022-12-02
 ISSUED FOR RFP VERSION 1.0

 05
 2023-02-24
 ISSUED FOR RFP VERSION 1.0

 06
 2023-04-12
 RE-ISSUED FOR SPC & FLUDA

 07
 2023-07-28
 ISSUED FOR PSOS

 08
 2023-08-04
 RE-ISSUED FOR PSOS

 09
 2023-09-29
 ISSUED FOR REVIEW AND COSTING

 10
 2023-10-27
 ISSUED FOR MOH 3A.3

 11
 2024-01-17
 ISSUED FOR DELEGATED AUTHORITY REPORT

Project Number Original Issue

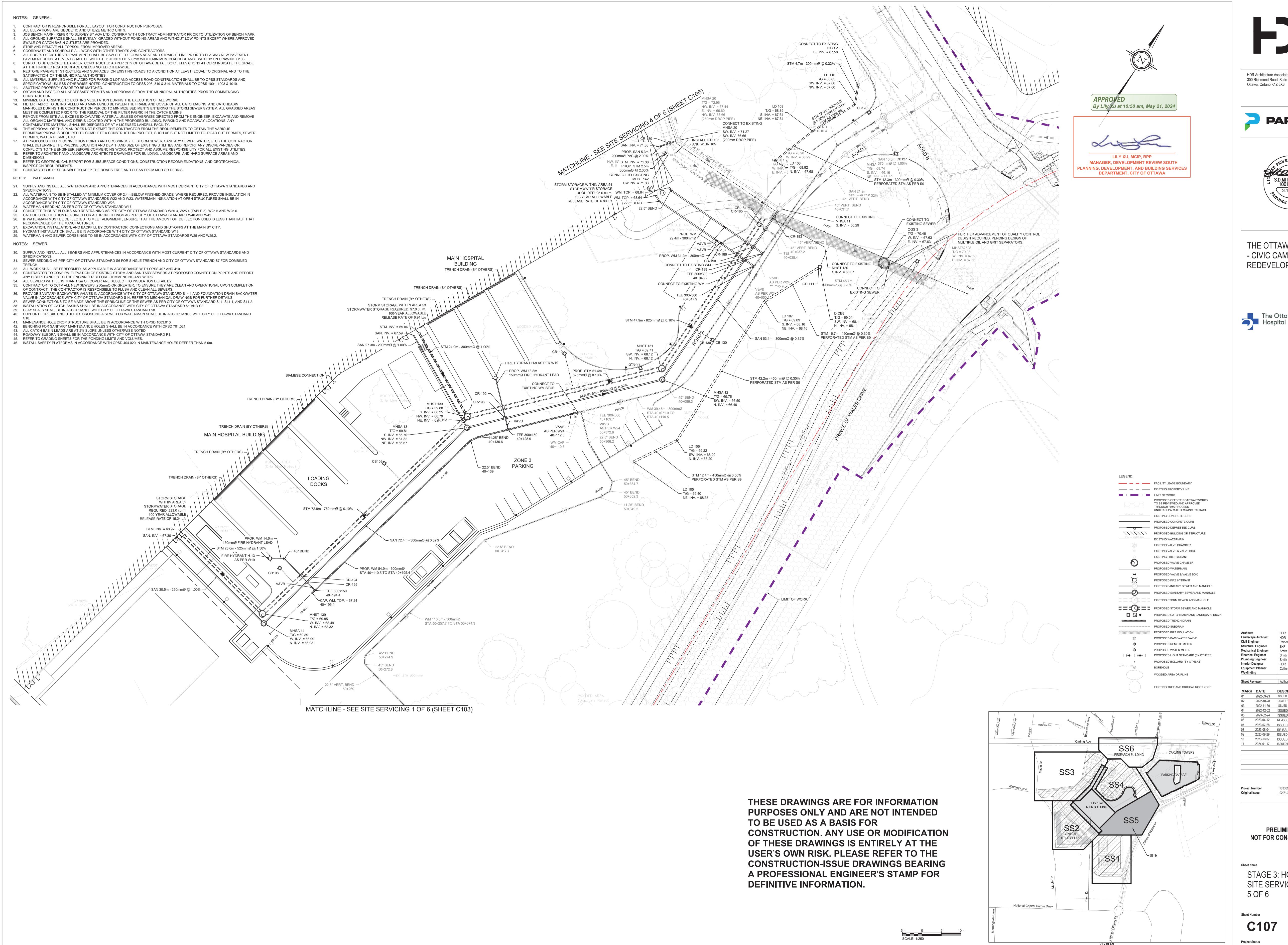
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NOT FOR CONSTRUCTION

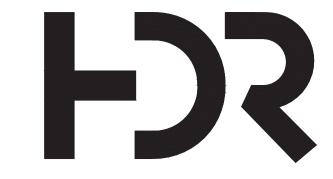
NOT FOR CONSTRUCTI

STAGE 3: HOSPITAL
SITE SERVICING PLAN
4 OF 6

et Number

C106
Project Status





HDR Architecture Associates Inc. 300 Richmond Road, Suite 200







Equipment Planner

PRELIMINARY

NOT FOR CONSTRUCTION

STAGE 3: HOSPITAL SITE SERVICING PLAN

C107 Project Status









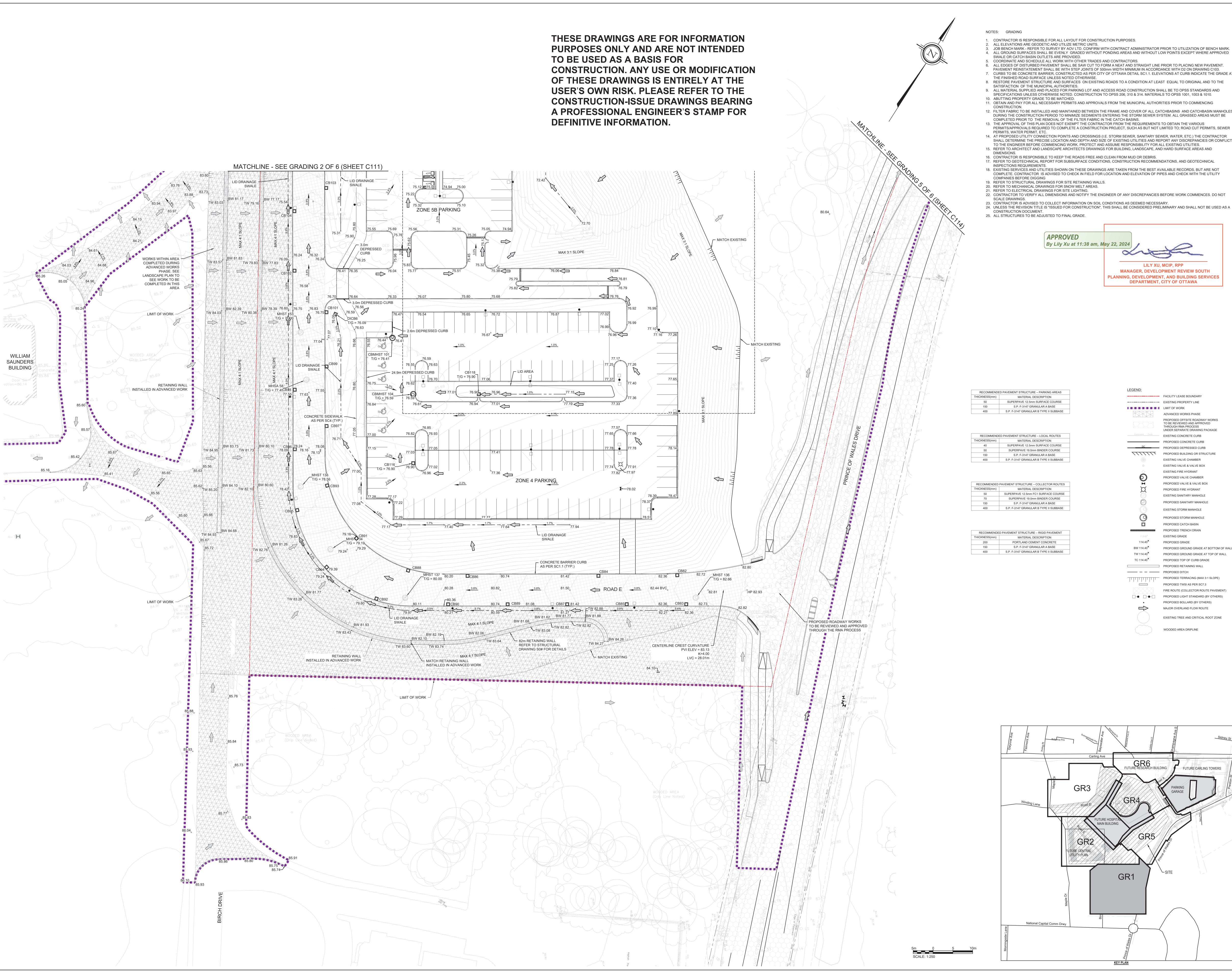
THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Architect	HDR
Landscape Architect	HDR
Civil Engineer	Parsons
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
Interior Designer	HDR
Equipment Planner	Colliers
Wayfinding	
Sheet Reviewer	Author

NOT FOR CONSTRUCTION

C109



3. JOB BENCH MARK - REFER TO SURVEY BY AOV LTD. CONFIRM WITH CONTRACT ADMINISTRATOR PRIOR TO UTILIZATION OF BENCH MARK. 4. ALL GROUND SURFACES SHALL BE EVENLY GRADED WITHOUT PONDING AREAS AND WITHOUT LOW POINTS EXCEPT WHERE APPROVED

SWALE OR CATCH BASIN OUTLETS ARE PROVIDED. 5. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS.

6. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103. 7. CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT

THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE. 8. RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES.

9. ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 206, 310 & 314. MATERIALS TO OPSS 1001, 1003 & 1010.

11. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING

12. FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE

COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS. 13. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO; ROAD CUT PERMITS, SEWER

SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES.

15. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND

16. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS. 17. REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL

18. EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT ARE NOT COMPLETE. CONTRACTOR IS ADVISED TO CHECK IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY

19. REFER TO STRUCTURAL DRAWINGS FOR SITE RETAINING WALLS.

21. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING. 22. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT

23. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY.

25. ALL STRUCTURES TO BE ADJUSTED TO FINAL GRADE.

By Lily Xu at 11:38 am, May 22, 2024 LILY XU, MCIP, RPP MANAGER, DEVELOPMENT REVIEW SOUTH PLANNING, DEVELOPMENT, AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA

LEGEND:

FACILITY LEASE BOUNDARY ---- EXISTING PROPERTY LINE | | | | | | | | | | | | | | | | | LIMIT OF WORK ADVANCED WORKS PHASE PROPOSED OFFSITE ROADWAY WORKS TO BE REVIEWED AND APPROVED THROUGH RMA PROCESS UNDER SEPARATE DRAWING PACKAGE

EXISTING CONCRETE CURB

PROPOSED VALVE CHAMBER

PROPOSED CONCRETE CURB PROPOSED DEPRESSED CURB PROPOSED BUILDING OR STRUCTURE EXISTING VALVE CHAMBER EXISTING VALVE & VALVE BOX EXISTING FIRE HYDRANT

PROPOSED VALVE & VALVE BOX PROPOSED FIRE HYDRANT EXISTING SANITARY MANHOLE PROPOSED SANITARY MANHOLE EXISTING STORM MANHOLE PROPOSED STORM MANHOLE

PROPOSED CATCH BASIN PROPOSED TRENCH DRAIN PROPOSED GROUND GRADE AT BOTTOM OF WALL PROPOSED GROUND GRADE AT TOP OF WALL

PROPOSED RETAINING WALL PROPOSED TERRACING (MAX 3:1 SLOPE) PROPOSED TWSI AS PER SC7.3

FIRE ROUTE (COLLECTOR ROUTE PAVEMENT) PROPOSED LIGHT STANDARD (BY OTHERS) MAJOR OVERLAND FLOW ROUTE EXISTING TREE AND CRITICAL ROOT ZONE

WOODED AREA DRIPLINE

FUTURE CARLING TOWERS

PROPOSED TOP OF CURB GRADE

Equipment Planner 2022-09-23 ISSUED FOR PRE-CONSULTATION 2022-10-28 DRAFT FOR 90% SD 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSIO

HDR Architecture Associates Inc.

300 Richmond Road, Suite 200

THE OTTAWA HOSPITAL - CIVIC CAMPUS

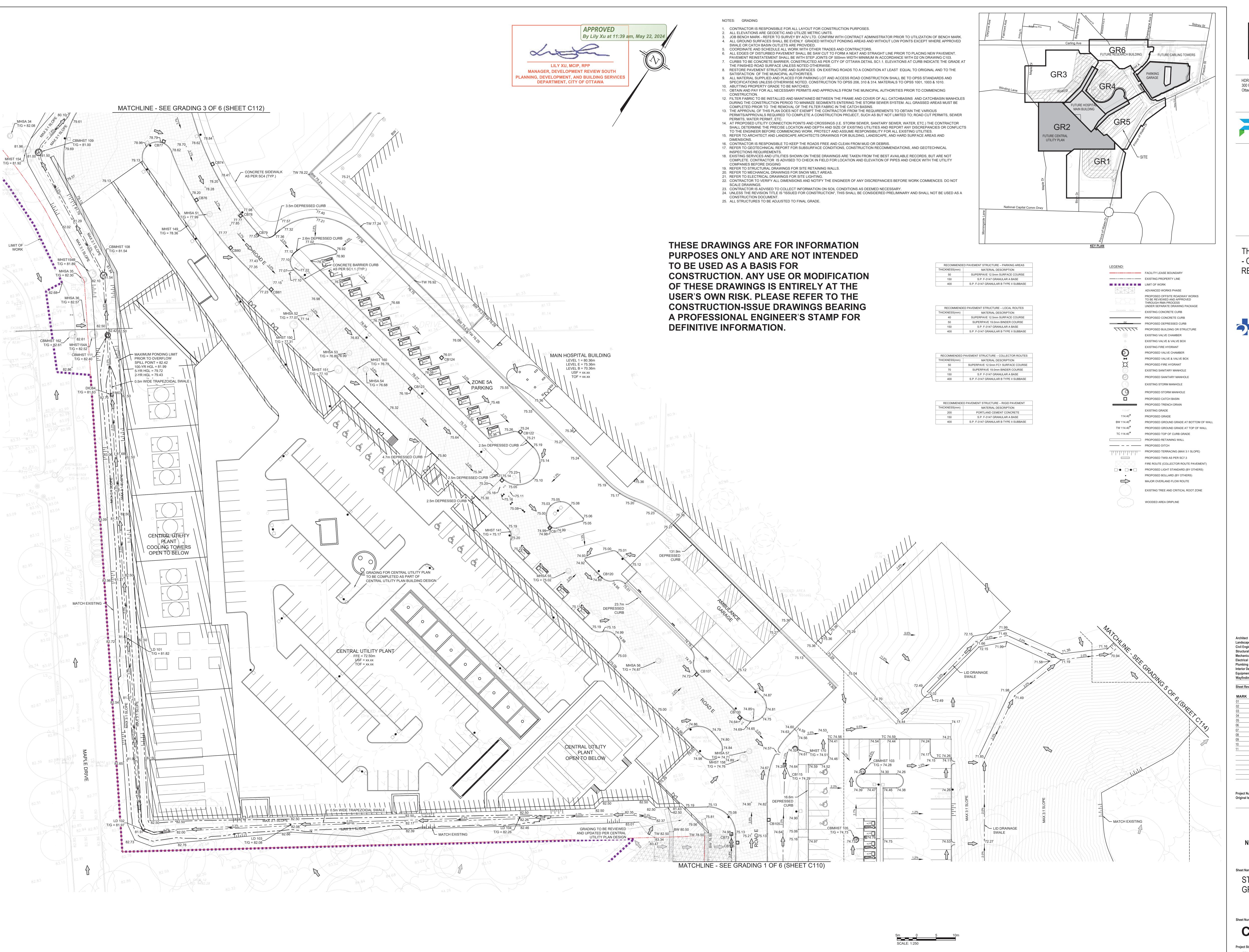
REDEVELOPMENT

Ottawa, Ontario K1Z 6X6

2023-02-24 ISSUED FOR RFP VERSION 1.0 2023-04-12 RE-ISSUED FOR SPC & FLUDA

Project Number Original Issue

NOT FOR CONSTRUCTION









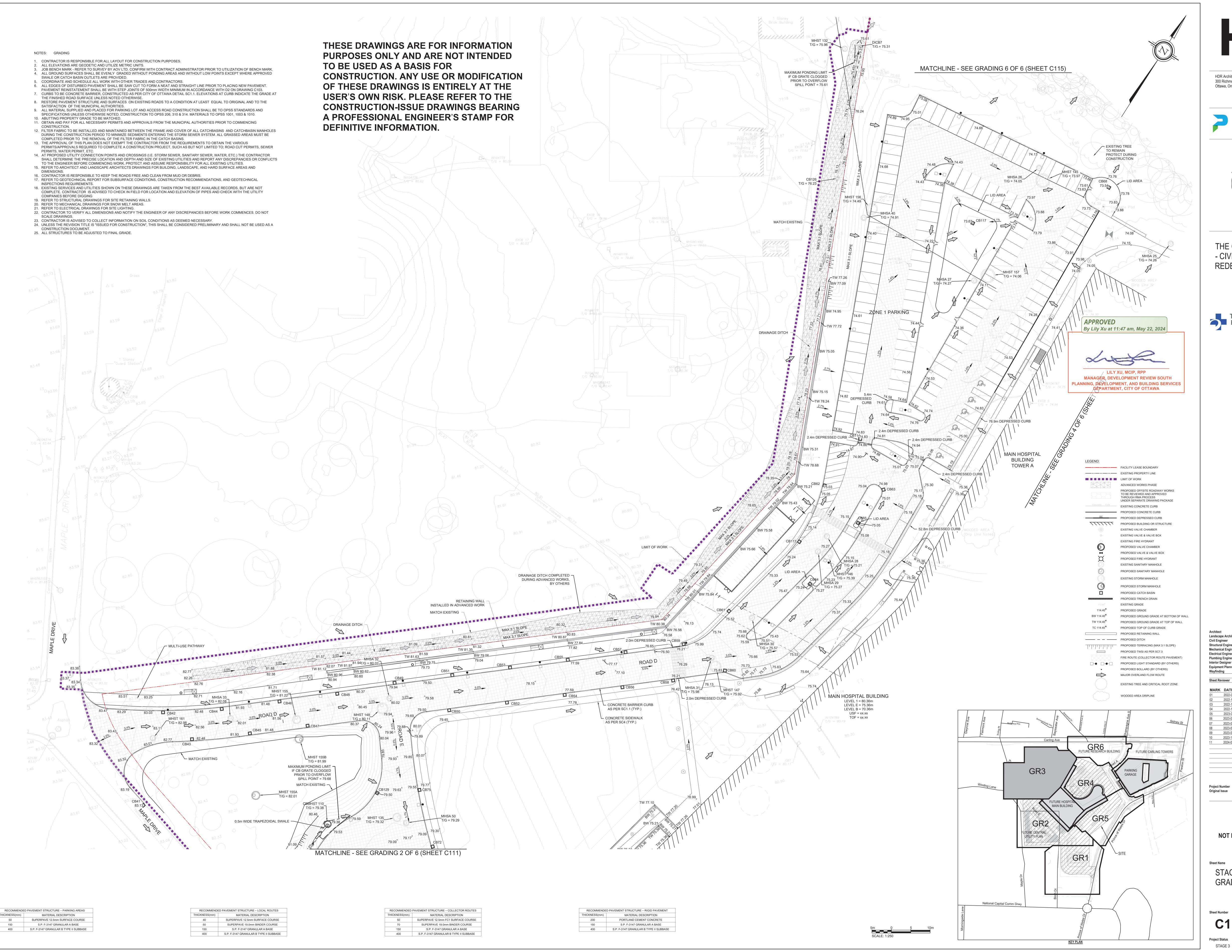
THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Architect	HDR
_andscape Architect	HDR
Civil Engineer	Parsons
Structural Engineer	EXP
Mechanical Engineer	Smith + Andersen
Electrical Engineer	Smith + Andersen
Plumbing Engineer	Smith + Andersen
nterior Designer	HDR
Equipment Planner	Colliers
Wayfinding	

•		00111010
/findi	ng	
et Re	viewer	Author
RK	DATE	DESCRIPTION
	2022-09-23	ISSUED FOR PRE-CONSULTATION
	2022-10-28	DRAFT FOR 90% SD
	2022-11-30	ISSUED FOR SPC & FLUDA - 1ST SUBMISSION
	2022-12-02	ISSUED FOR 3A1-2
	2023-02-24	ISSUED FOR RFP VERSION 1.0
	2023-04-12	RE-ISSUED FOR SPC & FLUDA
	2023-07-28	ISSUED FOR PSOS
	2023-08-04	RE-ISSUED FOR PSOS
	2023-09-29	ISSUED FOR REVIEW AND COSTING
	2023-10-27	ISSUED FOR MOH 3A.3
	2024-01-17	ISSUED FOR DELEGATED AUTHORITY REPOR

NOT FOR CONSTRUCTION









THE OTTAWA HOSPITAL - CIVIC CAMPUS



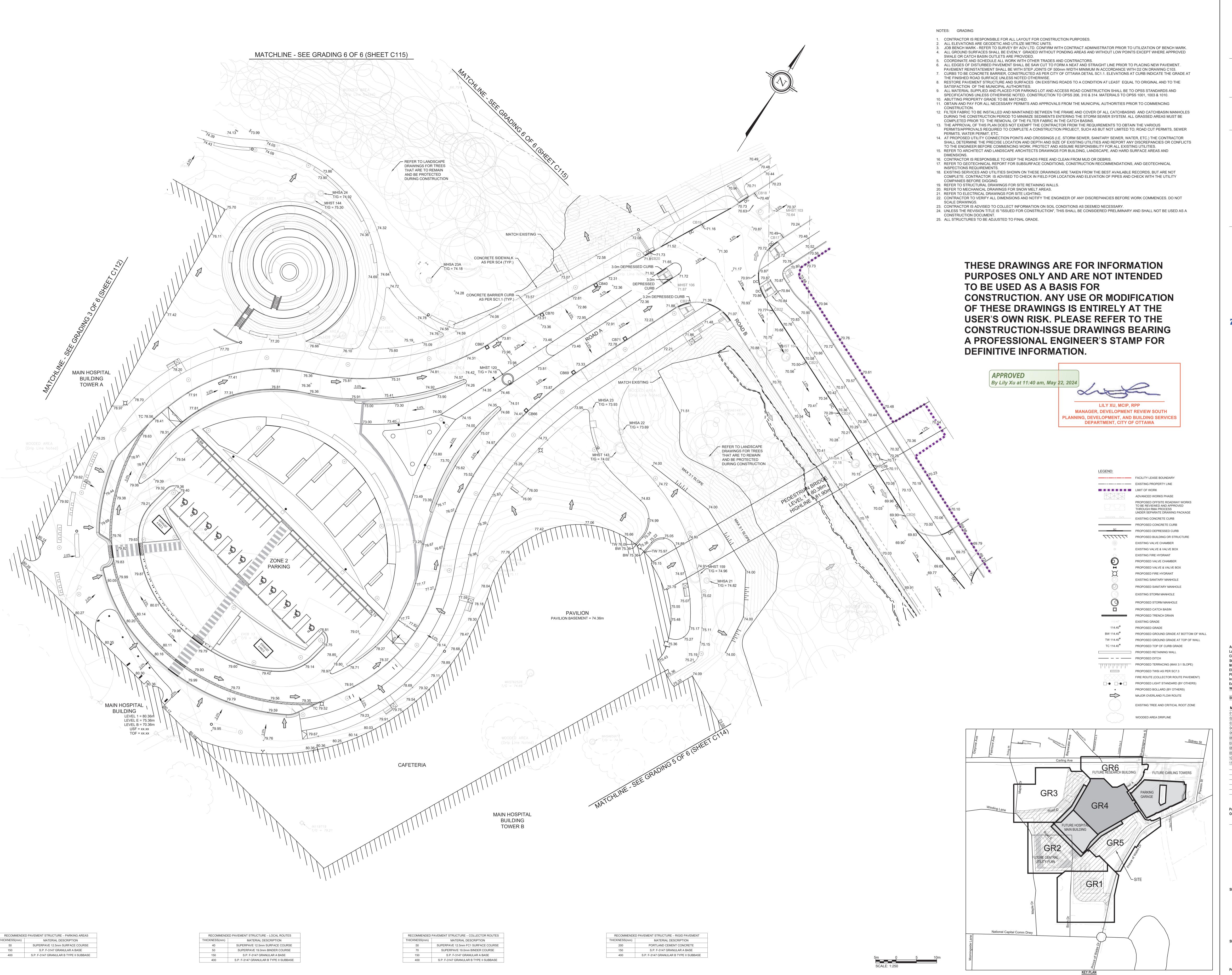
Plumbing Engineer **Equipment Planner**

2022-09-23 ISSUED FOR PRE-CONSULTATION 2022-10-28 DRAFT FOR 90% SD 3 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSIO 2023-04-12 RE-ISSUED FOR SPC & FLUDA

Project Number Original Issue

NOT FOR CONSTRUCTION

Project Status









THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner**

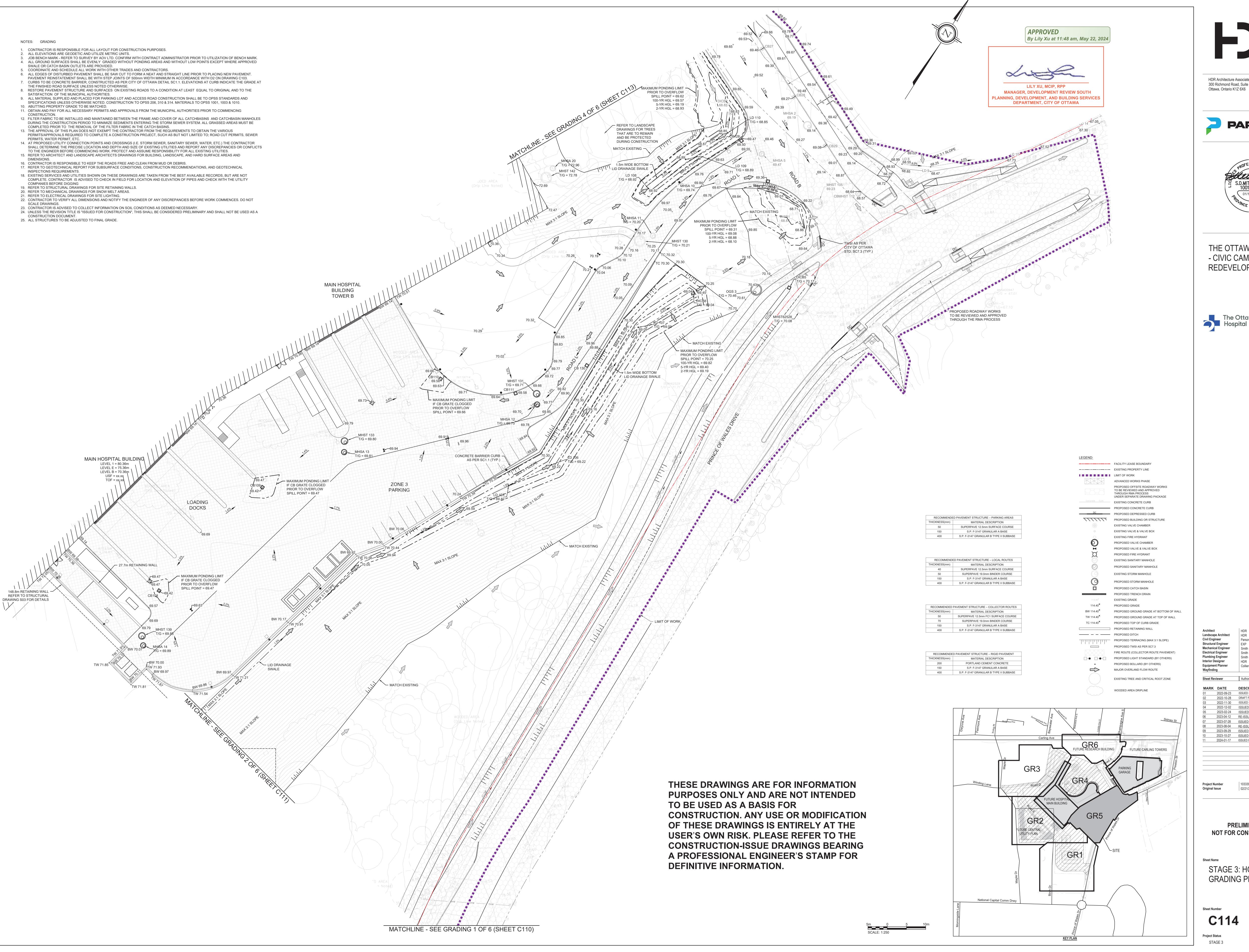
MARK DATE DESCRIPTION 2022-09-23 ISSUED FOR PRE-CONSULTATION)2 2022-10-28 DRAFT FOR 90% SD 03 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION 2022-12-02 ISSUED FOR 3A1-2 2023-02-24 ISSUED FOR RFP VERSION 1.0 2023-04-12 RE-ISSUED FOR SPC & FLUDA 2023-07-28 ISSUED FOR PSOS 08 2023-08-04 RE-ISSUED FOR PSOS 2023-09-29 ISSUED FOR REVIEW AND COSTING 0 2023-10-27 ISSUED FOR MOH 3A.3

Project Number Original Issue

NOT FOR CONSTRUCTION

Sheet Number

Project Status STAGE 3





HDR Architecture Associates Inc. 300 Richmond Road, Suite 200





THE OTTAWA HOSPITAL
- CIVIC CAMPUS
REDEVELOPMENT



Equipment Planner

2023-02-24 ISSUED FOR RFP VERSION 1.0 2023-04-12 RE-ISSUED FOR SPC & FLUD

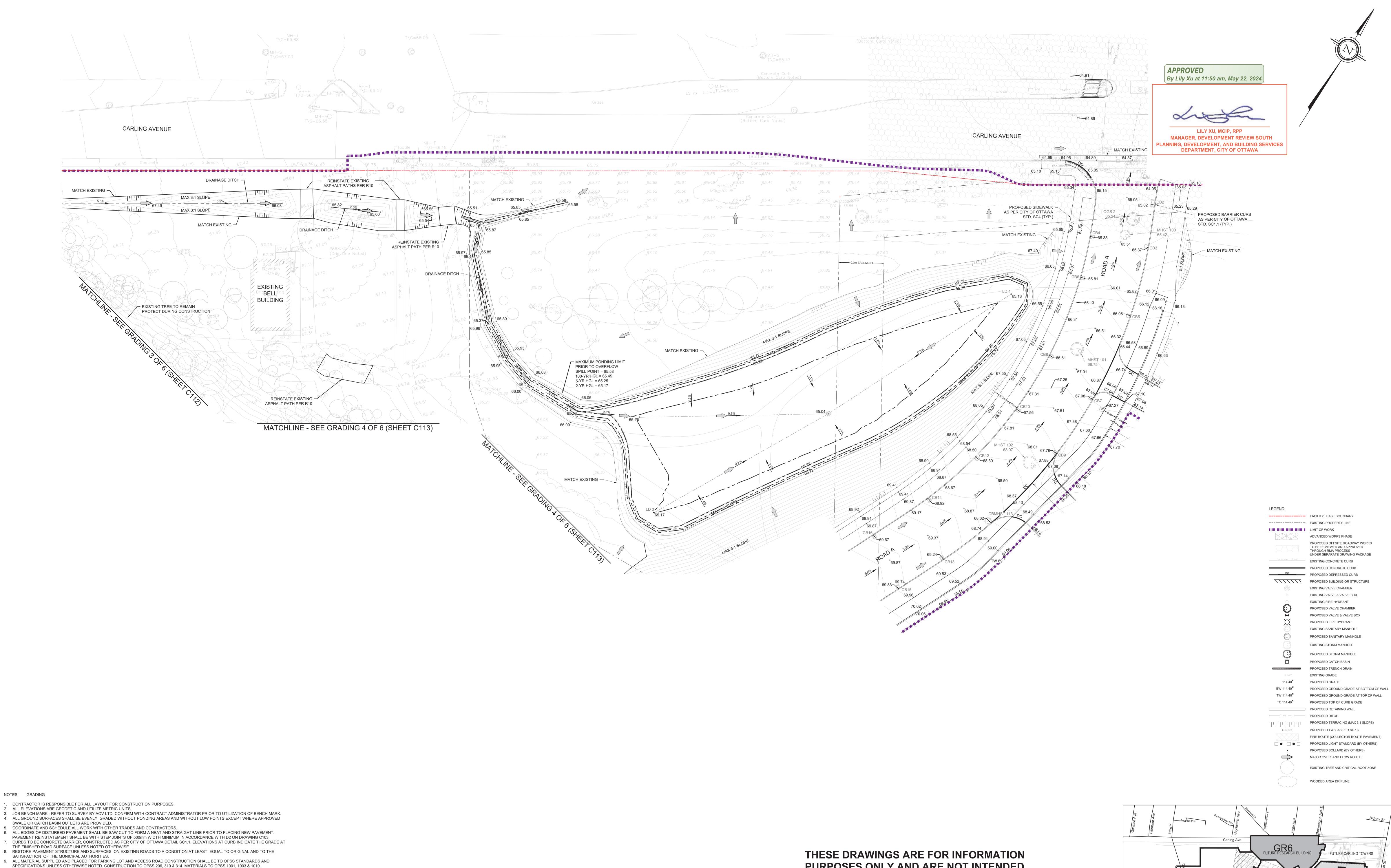
Project Number Original Issue

PRELIMINARY

NOT FOR CONSTRUCTION

STAGE 3: HOSPITAL GRADING PLAN 5 OF 6

C114 **Project Status**



5. COORDINATE AND SCHEDULE ALL WORK WITH OTHER TRADES AND CONTRACTORS. 6. ALL EDGES OF DISTURBED PAVEMENT SHALL BE SAW CUT TO FORM A NEAT AND STRAIGHT LINE PRIOR TO PLACING NEW PAVEMENT. PAVEMENT REINSTATEMENT SHALL BE WITH STEP JOINTS OF 500mm WIDTH MINIMUM IN ACCORDANCE WITH D2 ON DRAWING C103. 7. CURBS TO BE CONCRETE BARRIER, CONSTRUCTED AS PER CITY OF OTTAWA DETAIL SC1.1. ELEVATIONS AT CURB INDICATE THE GRADE AT THE FINISHED ROAD SURFACE UNLESS NOTED OTHERWISE. 8. RESTORE PAVEMENT STRUCTURE AND SURFACES ON EXISTING ROADS TO A CONDITION AT LEAST EQUAL TO ORIGINAL AND TO THE SATISFACTION OF THE MUNICIPAL AUTHORITIES. 9. ALL MATERIAL SUPPLIED AND PLACED FOR PARKING LOT AND ACCESS ROAD CONSTRUCTION SHALL BE TO OPSS STANDARDS AND SPECIFICATIONS UNLESS OTHERWISE NOTED. CONSTRUCTION TO OPSS 206, 310 & 314. MATERIALS TO OPSS 1001, 1003 & 1010. 10. ABUTTING PROPERTY GRADE TO BE MATCHED. 11. OBTAIN AND PAY FOR ALL NECESSARY PERMITS AND APPROVALS FROM THE MUNICIPAL AUTHORITIES PRIOR TO COMMENCING 12. FILTER FABRIC TO BE INSTALLED AND MAINTAINED BETWEEN THE FRAME AND COVER OF ALL CATCHBASINS AND CATCHBASIN MANHOLES DURING THE CONSTRUCTION PERIOD TO MINIMIZE SEDIMENTS ENTERING THE STORM SEWER SYSTEM. ALL GRASSED AREAS MUST BE COMPLETED PRIOR TO THE REMOVAL OF THE FILTER FABRIC IN THE CATCH BASINS.

13. THE APPROVAL OF THIS PLAN DOES NOT EXEMPT THE CONTRACTOR FROM THE REQUIREMENTS TO OBTAIN THE VARIOUS PERMITS/APPROVALS REQUIRED TO COMPLETE A CONSTRUCTION PROJECT, SUCH AS BUT NOT LIMITED TO; ROAD CUT PERMITS, SEWER PERMITS, WATER PERMIT, ETC. 14. AT PROPOSED UTILITY CONNECTION POINTS AND CROSSINGS (I.E. STORM SEWER, SANITARY SEWER, WATER, ETC.) THE CONTRACTOR

SHALL DETERMINE THE PRECISE LOCATION AND DEPTH AND SIZE OF EXISTING UTILITIES AND REPORT ANY DISCREPANCIES OR CONFLICTS TO THE ENGINEER BEFORE COMMENCING WORK. PROTECT AND ASSUME RESPONSIBILITY FOR ALL EXISTING UTILITIES. 15. REFER TO ARCHITECT AND LANDSCAPE ARCHITECTS DRAWINGS FOR BUILDING, LANDSCAPE, AND HARD SURFACE AREAS AND

16. CONTRACTOR IS RESPONSIBLE TO KEEP THE ROADS FREE AND CLEAN FROM MUD OR DEBRIS. 17. REFER TO GEOTECHNICAL REPORT FOR SUBSURFACE CONDITIONS, CONSTRUCTION RECOMMENDATIONS, AND GEOTECHNICAL

INSPECTIONS REQUIREMENTS. 18. EXISTING SERVICES AND UTILITIES SHOWN ON THESE DRAWINGS ARE TAKEN FROM THE BEST AVAILABLE RECORDS, BUT ARE NOT COMPLETE. CONTRACTOR IS ADVISED TO CHECK IN FIELD FOR LOCATION AND ELEVATION OF PIPES AND CHECK WITH THE UTILITY COMPANIES BEFORE DIGGING

21. REFER TO ELECTRICAL DRAWINGS FOR SITE LIGHTING. 22. CONTRACTOR TO VERIFY ALL DIMENSIONS AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE WORK COMMENCES. DO NOT 23. CONTRACTOR IS ADVISED TO COLLECT INFORMATION ON SOIL CONDITIONS AS DEEMED NECESSARY. 24. UNLESS THE REVISION TITLE IS "ISSUED FOR CONSTRUCTION", THIS SHALL BE CONSIDERED PRELIMINARY AND SHALL NOT BE USED AS A

CONSTRUCTION DOCUMENT. 25. ALL STRUCTURES TO BE ADJUSTED TO FINAL GRADE.

19. REFER TO STRUCTURAL DRAWINGS FOR SITE RETAINING WALLS. 20. REFER TO MECHANICAL DRAWINGS FOR SNOW MELT AREAS.

NOTES: GRADING

RECOMMENDED PAVEMENT STRUCTURE – PARKING AREAS THICKNESS(mm) MATERIAL DESCRIPTION SUPERPAVE 12.5mm SURFACE COURSE S.P. F-3147 GRANULAR A BASE 400 S.P. F-3147 GRANULAR B TYPE II SUBBASE

RECOMMENDED PAVEMENT STRUCTURE – LOCAL ROUTES MATERIAL DESCRIPTION SUPERPAVE 12.5mm SURFACE COURSE SUPERPAVE 19.0mm BINDER COURSE S.P. F-3147 GRANULAR A BASE S.P. F-3147 GRANULAR B TYPE II SUBBASE RECOMMENDED PAVEMENT STRUCTURE – COLLECTOR ROUTES MATERIAL DESCRIPTION SUPERPAVE 12.5mm FC1 SURFACE COURSE SUPERPAVE 19.0mm BINDER COURSE S.P. F-3147 GRANULAR A BASE S.P. F-3147 GRANULAR B TYPE II SUBBASE

RECOMMENDED PAVEMENT STRUCTURE – RIGID PAVEMENT THICKNESS(mm) MATERIAL DESCRIPTION PORTLAND CEMENT CONCRETE S.P. F-3147 GRANULAR A BASE S.P. F-3147 GRANULAR B TYPE II SUBBASE

PURPOSES ONLY AND ARE NOT INTENDED TO BE USED AS A BASIS FOR CONSTRUCTION. ANY USE OR MODIFICATION OF THESE DRAWINGS IS ENTIRELY AT THE USER'S OWN RISK. PLEASE REFER TO THE CONSTRUCTION-ISSUE DRAWINGS BEARING A PROFESSIONAL ENGINEER'S STAMP FOR DEFINITIVE INFORMATION.

National Capital Comm Drwy

HDR Architecture Associates Inc. 300 Richmond Road, Suite 200 Ottawa, Ontario K1Z 6X6





THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner** Wayfinding Sheet Reviewer

2022-09-23 ISSUED FOR PRE-CONSULTATION 02 2022-10-28 DRAFT FOR 90% SD 03 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION 04 2022-12-02 ISSUED FOR 3A1-2 5 2023-02-24 ISSUED FOR RFP VERSION 1.0 06 2023-04-12 RE-ISSUED FOR SPC & FLUDA 7 2023-07-28 ISSUED FOR PSOS 08 2023-08-04 RE-ISSUED FOR PSOS 09 2023-09-29 ISSUED FOR REVIEW AND COSTING 10 2023-10-27 ISSUED FOR MOH 3A.3 11 2024-01-17 ISSUED FOR DELEGATED AUTHORITY REPORT

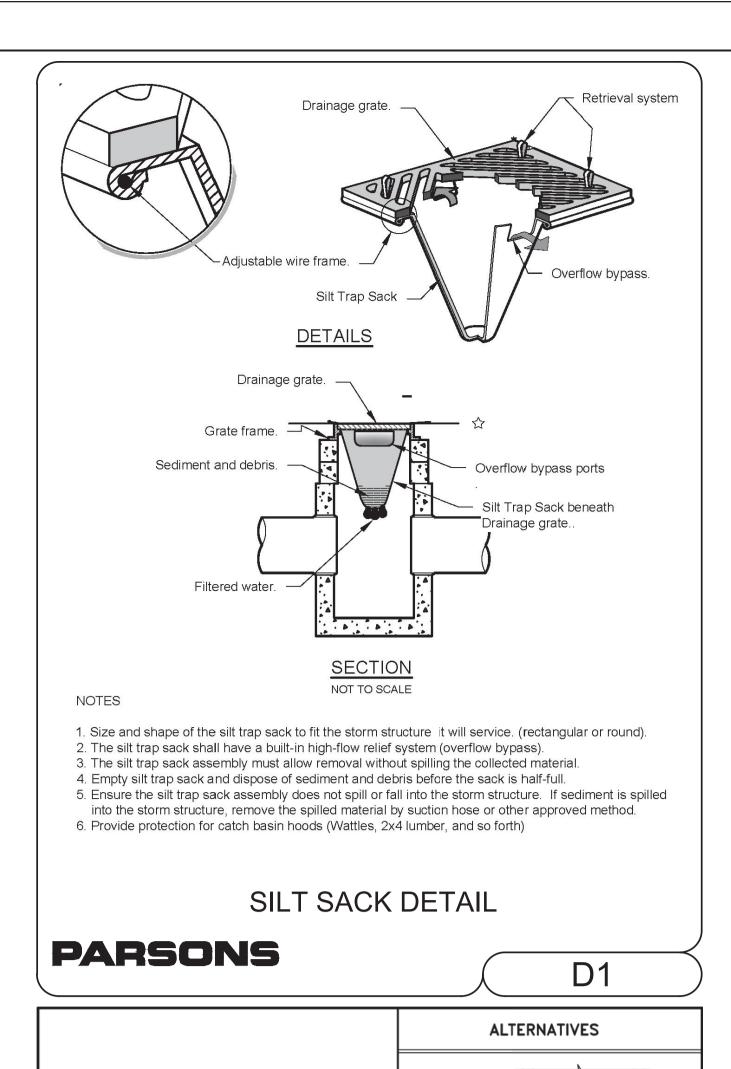
Project Number Original Issue

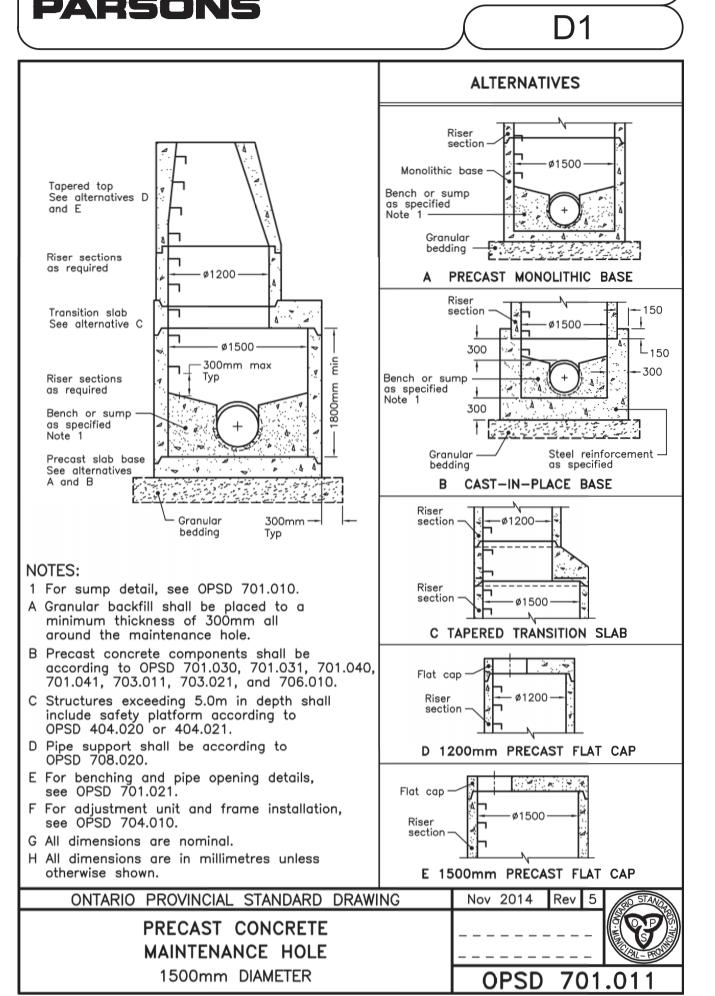
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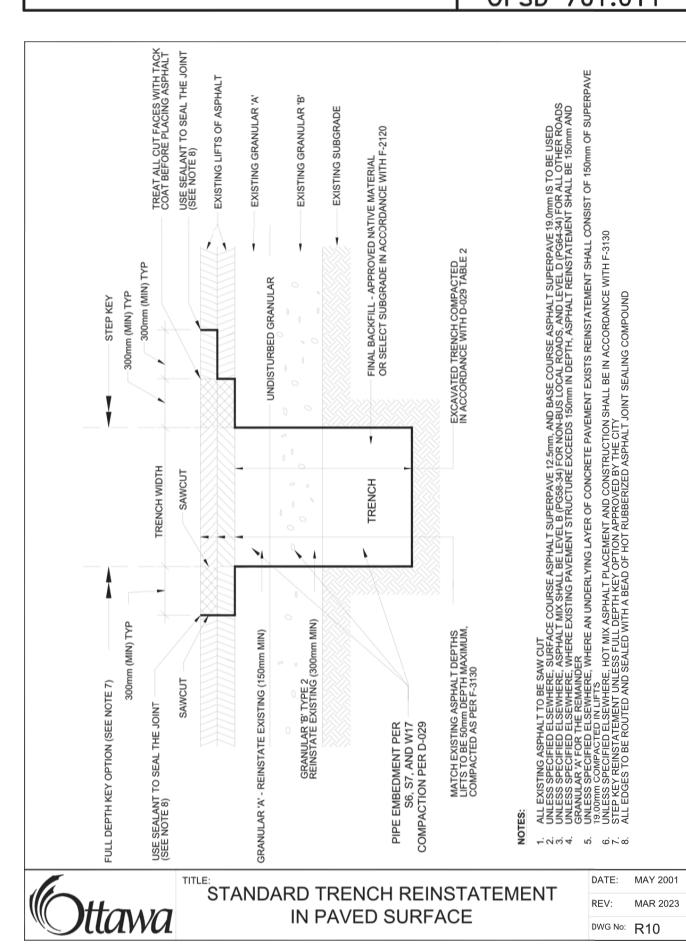
Sheet Number

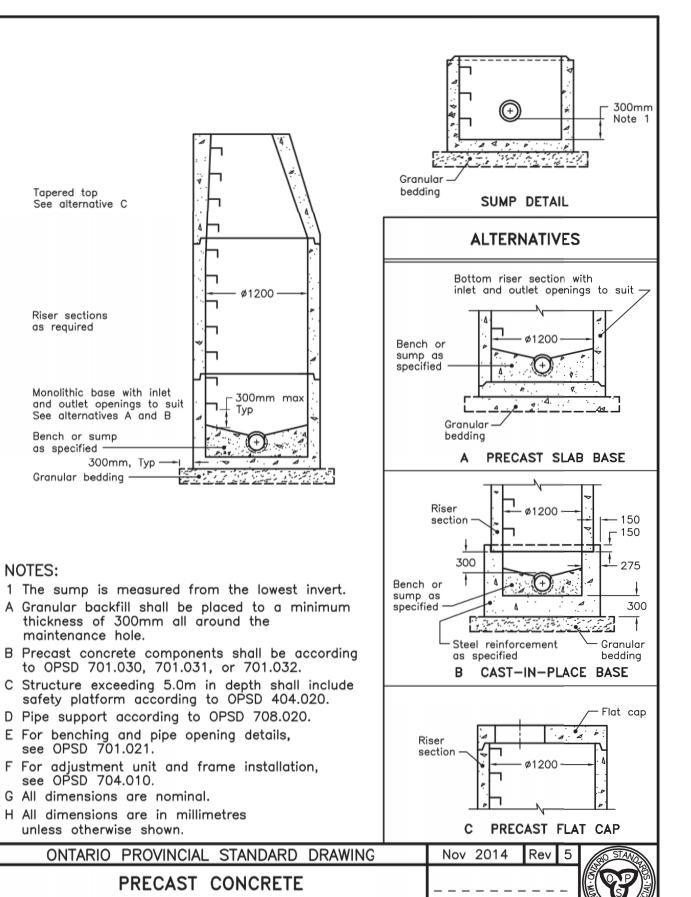
STAGE 3

C115 Project Status



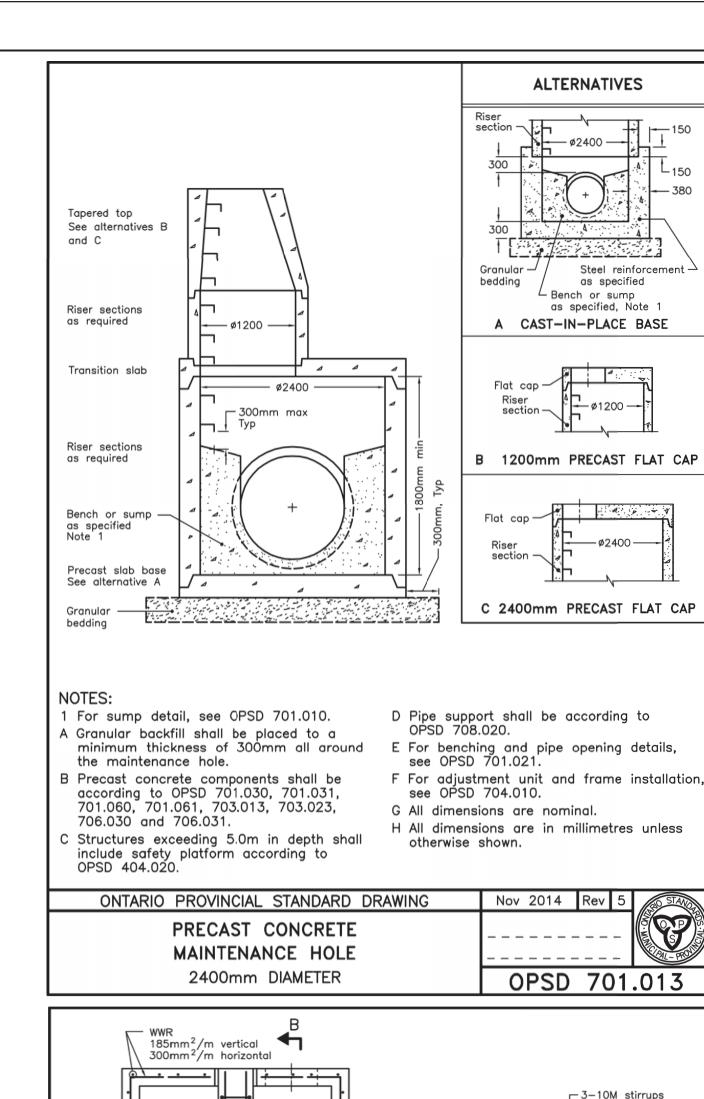


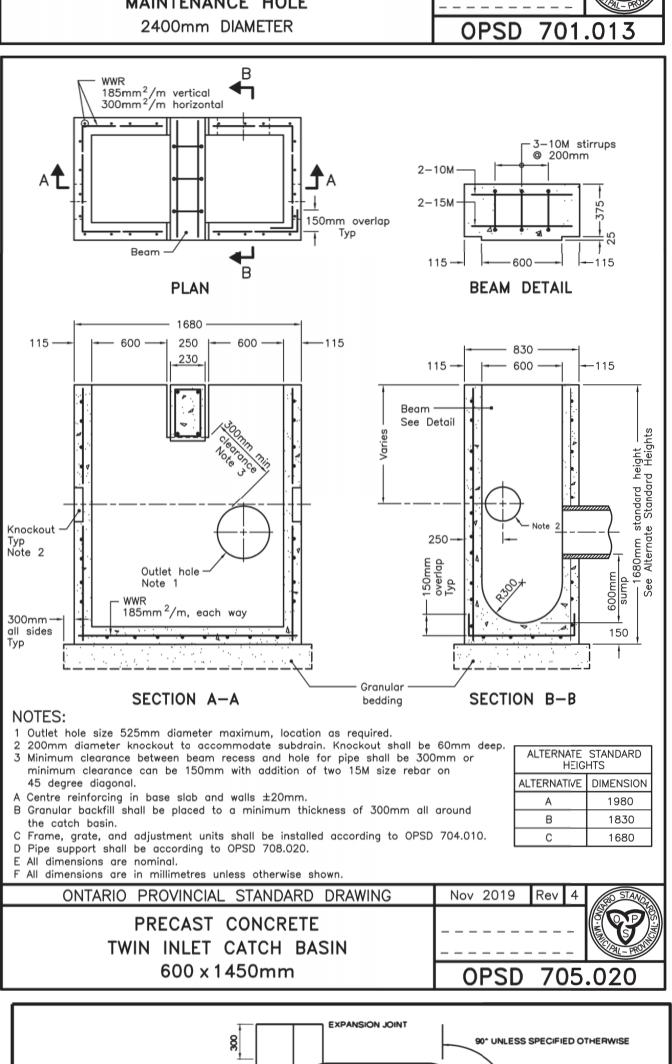


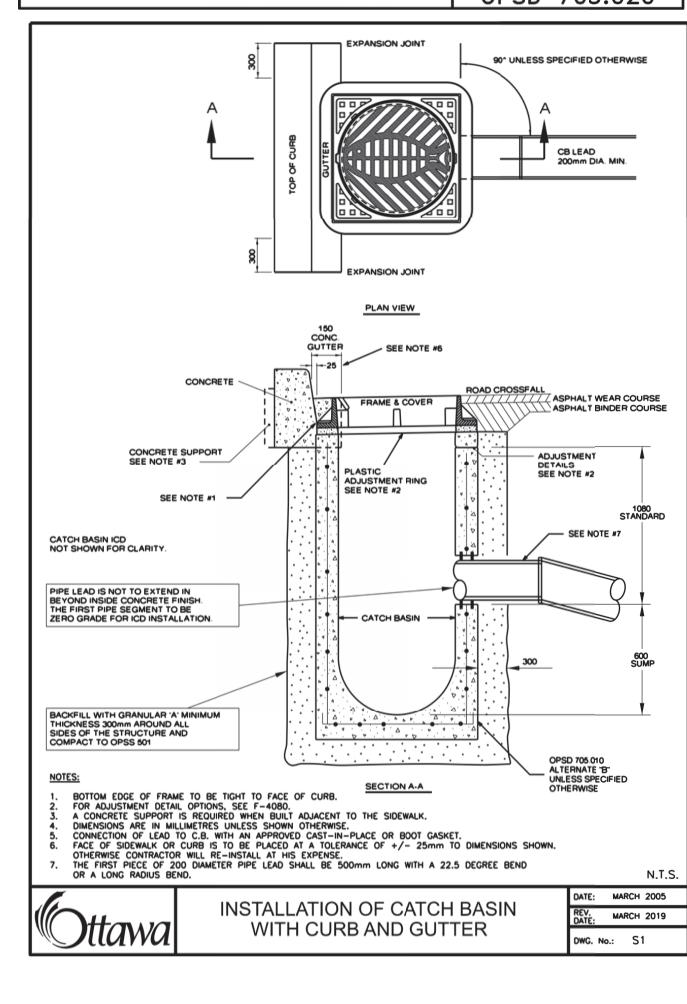


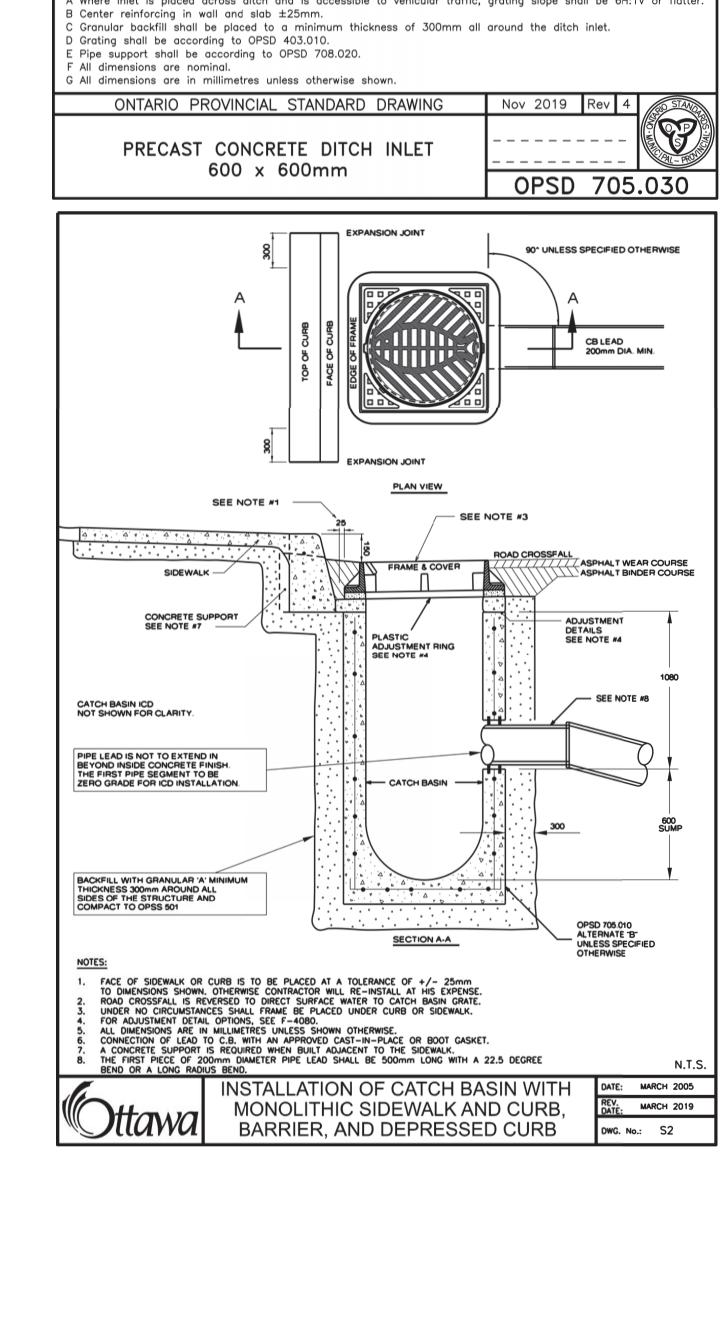
MAINTENANCE HOLE

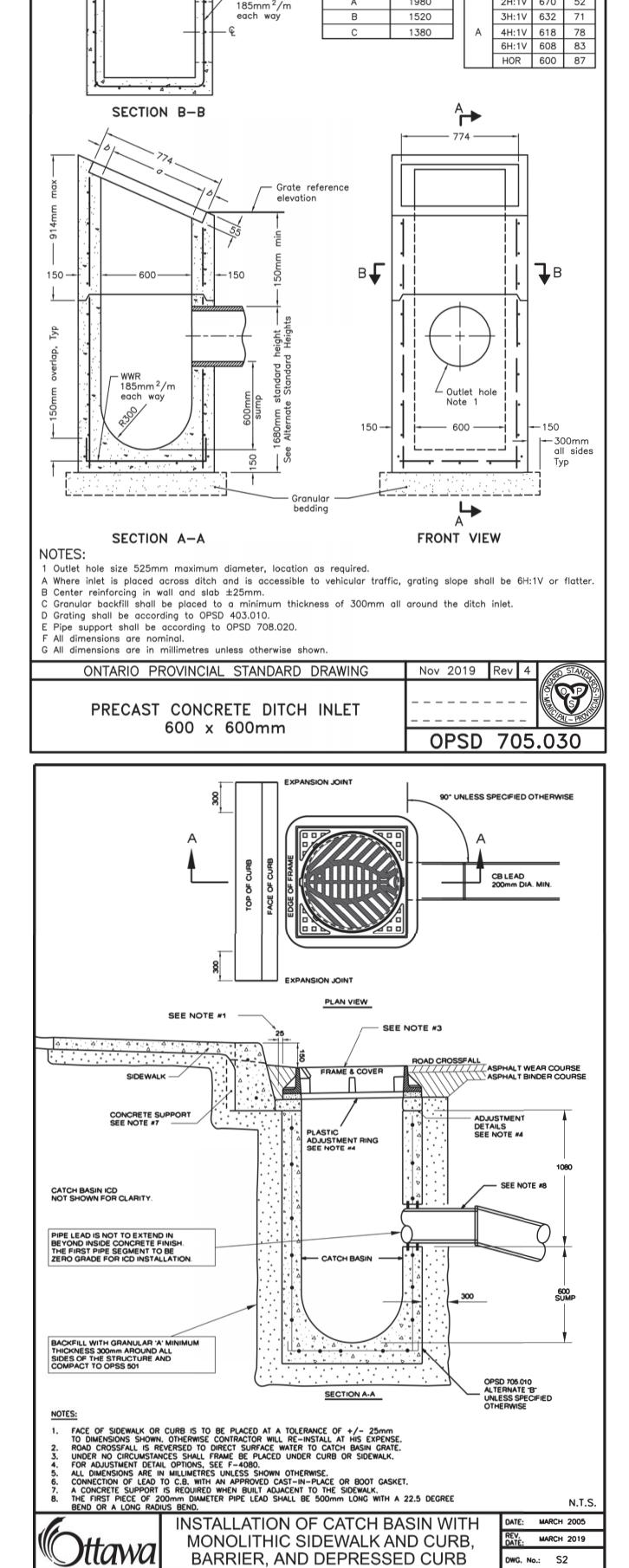
1200mm DIAMETER











. Wve connection

Concrete for benching shall be 30MPa.

All dimensions are nominal.

Benching slope and height shall be as specified.

All dimensions are in millimetres unless otherwise shown.

Slopes shall be maintained from the outlet hole opening for top of benching.

ONTARIO PROVINCIAL STANDARD DRAWING

MAINTENANCE HOLE BENCHING

AND PIPE OPENING ALTERNATIVES

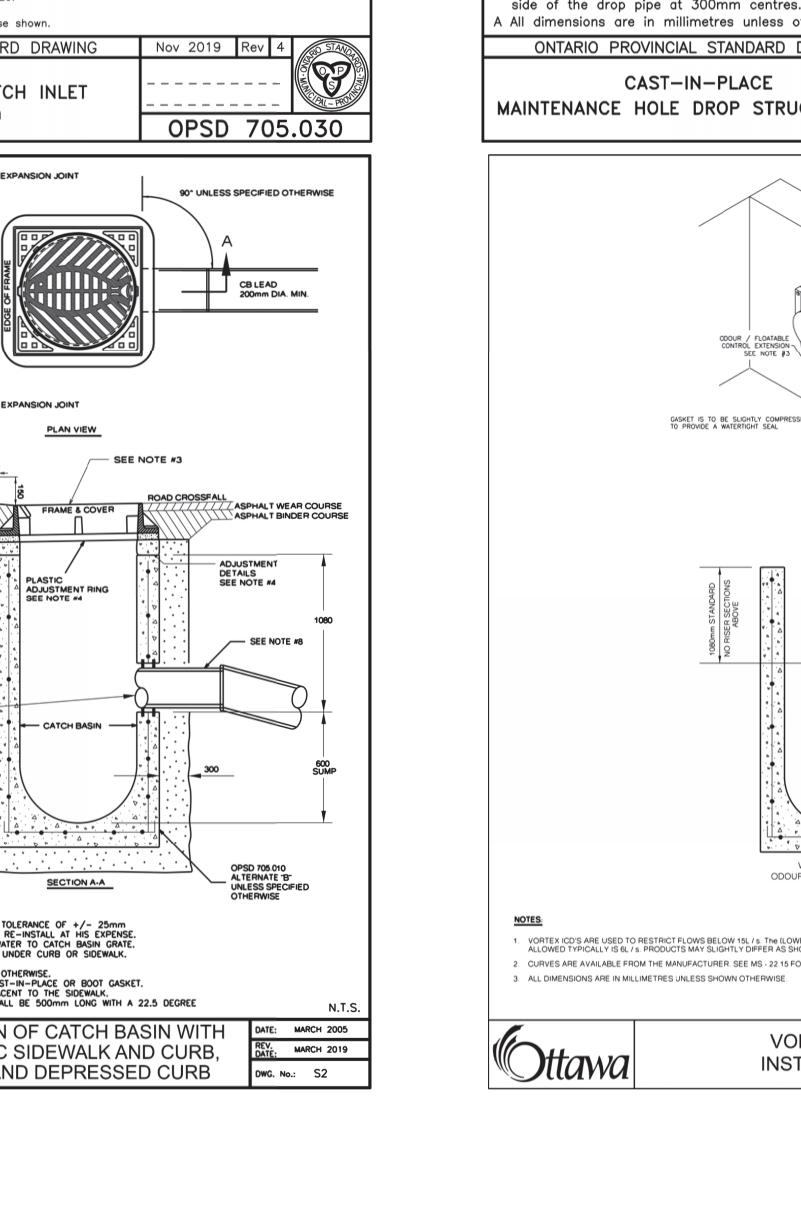
MAXIMUM SIZE HOLE IN THE WALL IN PRECAST RISER SECTIONS

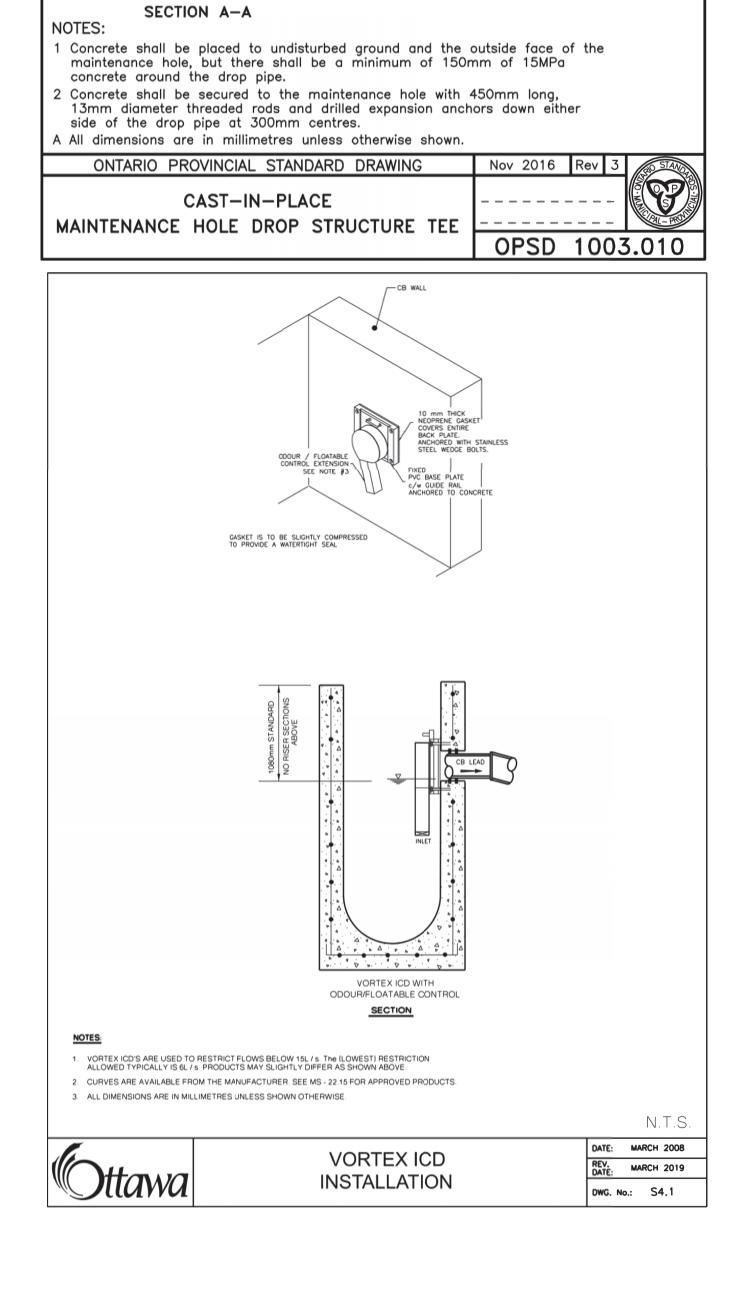
3 When benching is hand—finshed, it shall be given wood float finish, channel shall be given steel trowel finish.

may be prebenched at the manufacturer with standardized benching slope and channel orientation.

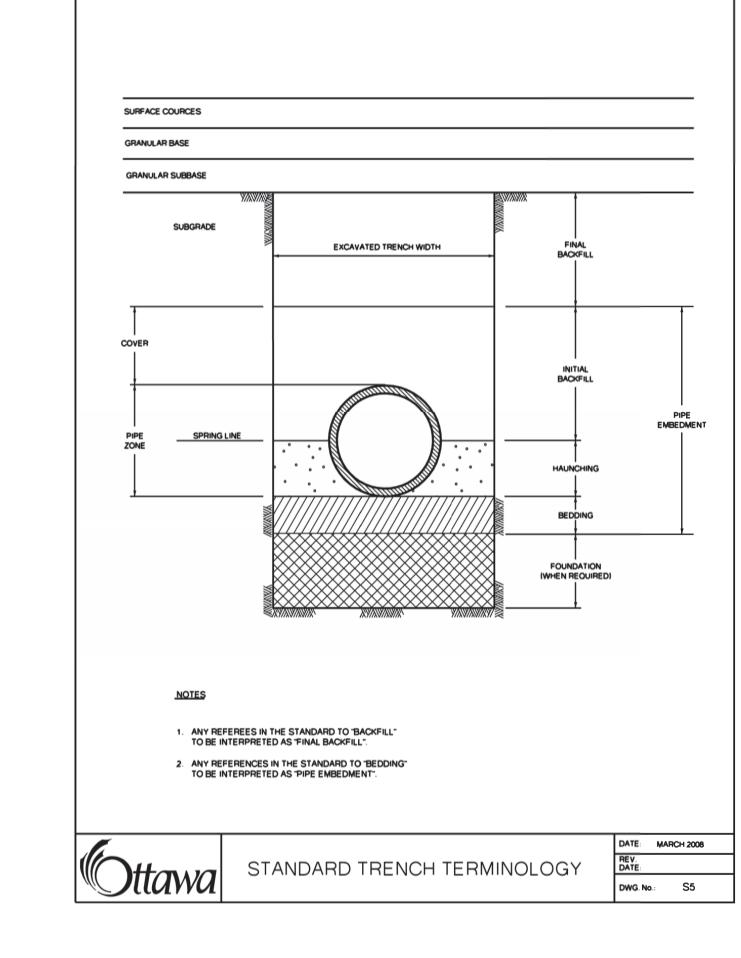
When specified, maintenance holes that are 1200mm in diameter with a uniform channel for 200 or 250mm pipe

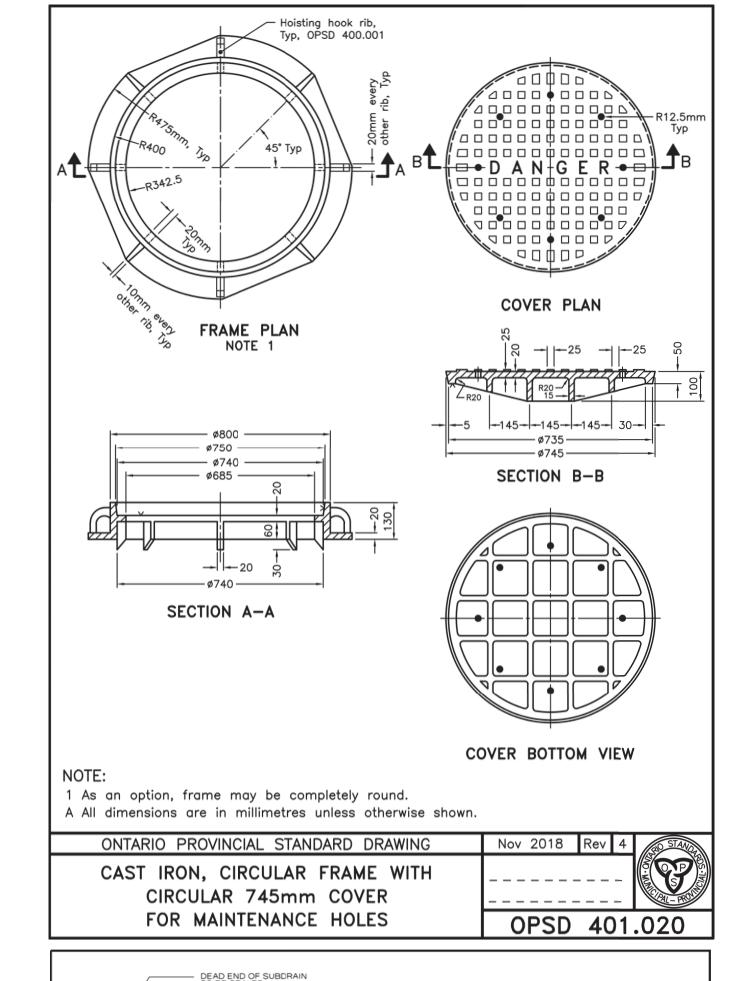
OPSD 701.021





or temporary





each way

830 -----

115 - 600 - 115

each way ---

SECTION B-B

D Pipe support shall be according to OPSD 708.020.

SIZE OF DROP PIPE

Storm

SEWER ID DROP PIPE ID APPLICATION

675 600

C Frame, grate, and adjustment units shall

E All dimensions are nominal.

unless otherwise shown.

ONTARIO PROVINCIAL STANDARD DRAWING Nov 2019 Rev 4

-75mm min

F All dimensions are in millimetres

be installed according to OPSD 704.010.

115 - 600 - 115

∠ Outlet hole Note 1

Outlet hole size 525mm diameter maximum,

2 200mm diameter knockout to accommodate

subdrain. Knockout shall be 60mm deep.

Centre reinforcing in base slab and walls

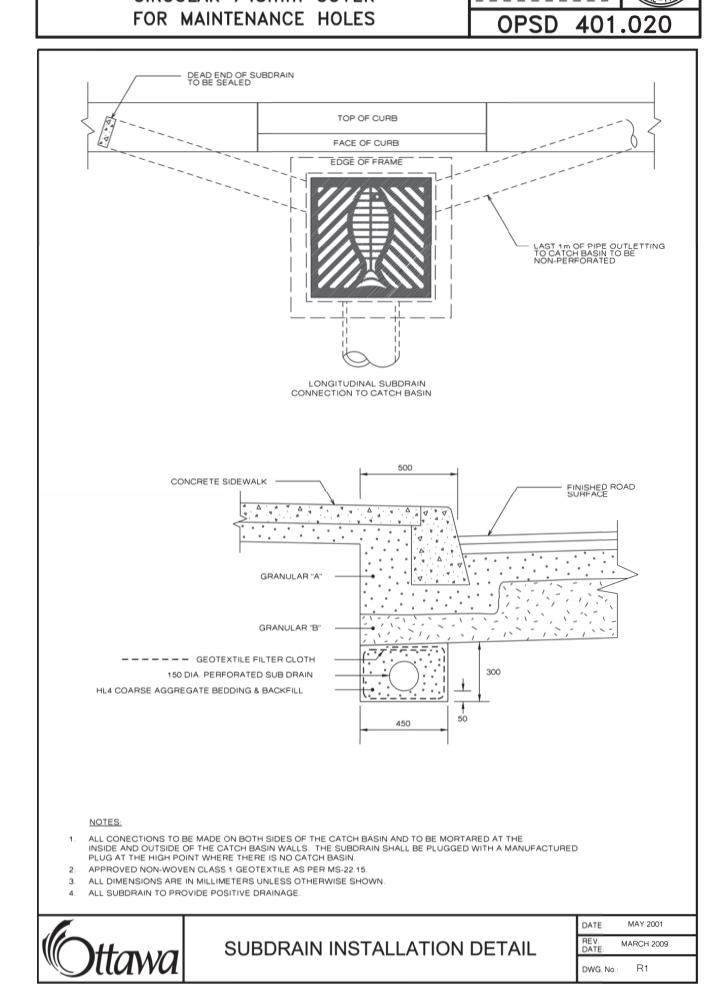
B Granular backfill shall be placed to a minimum thickness of 300mm all around the catch basin.

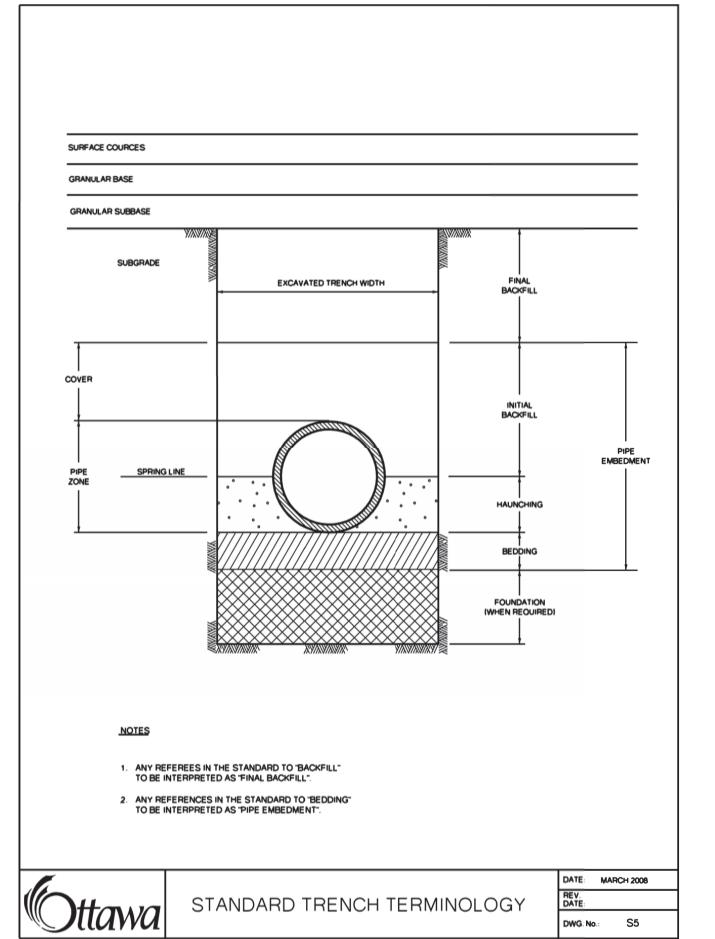
location as required.

SECTION A-A

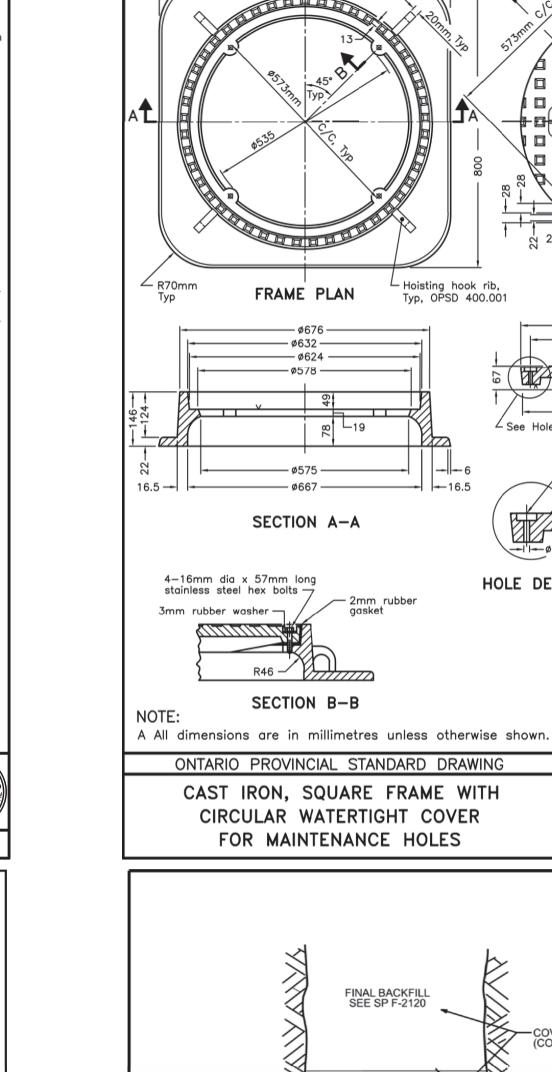
PRECAST CONCRETE CATCH BASIN

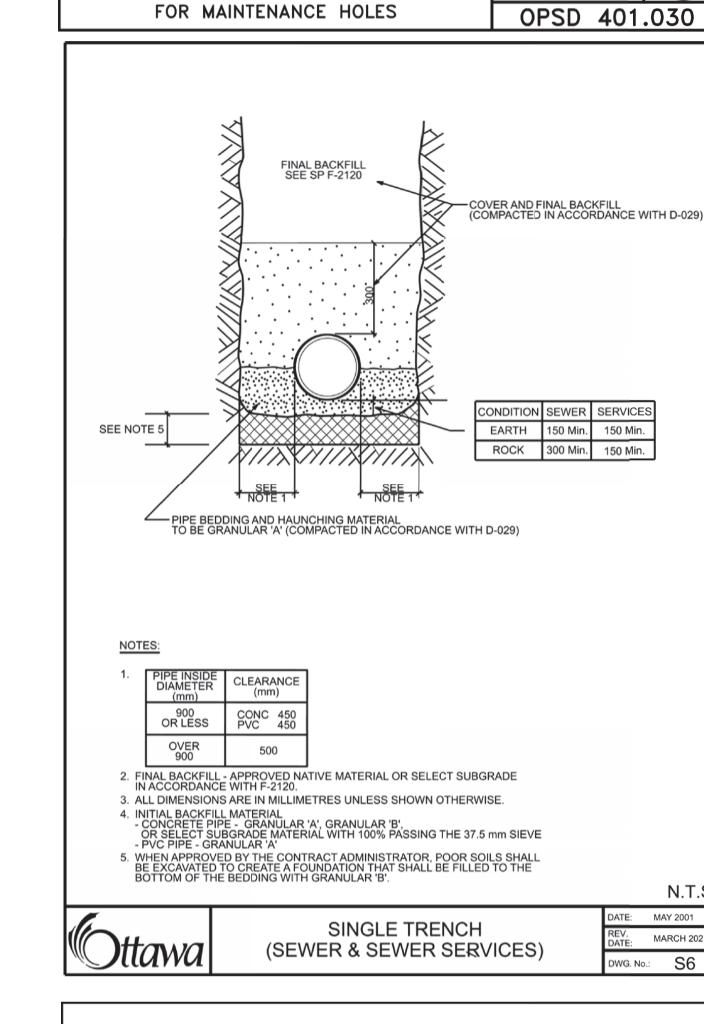
└50mm min





── PIPE IN SUPPORTED





COVER PLAN

-24 | 114 | 114 |

BAR HANDLE

→ | --28

___38mm dia x 14mm deep

SECTION D-D

Nov 2018 Rev 4 SSTAN

∠ See Hole Detail

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THE OTTAWA HOSPITAL

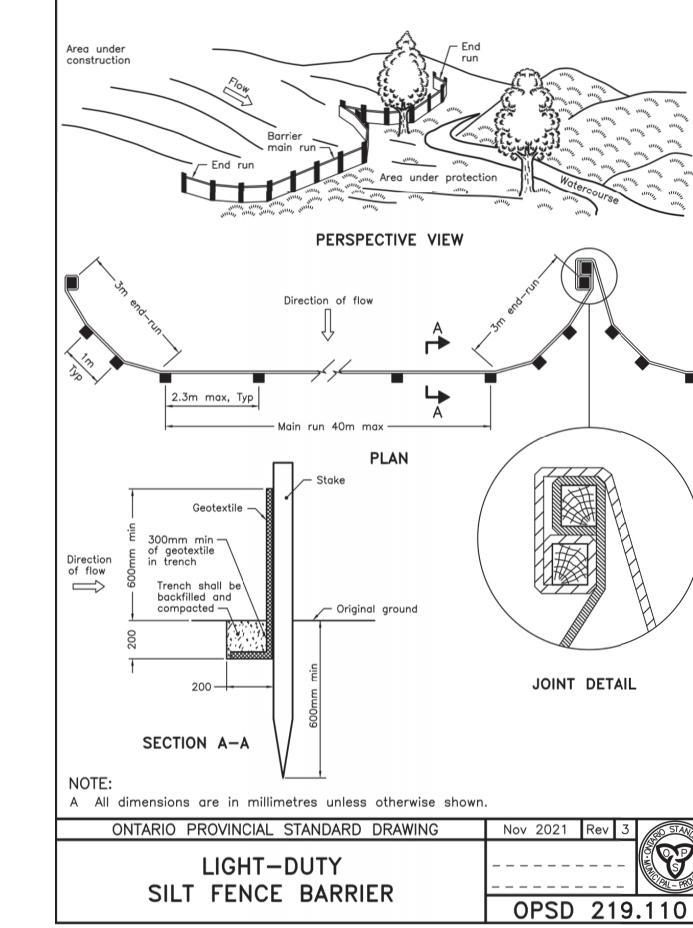
- CIVIC CAMPUS

REDEVELOPMENT

300 Richmond Road, Suite 200

Ottawa, Ontario K1Z 6X6

A N-G E R



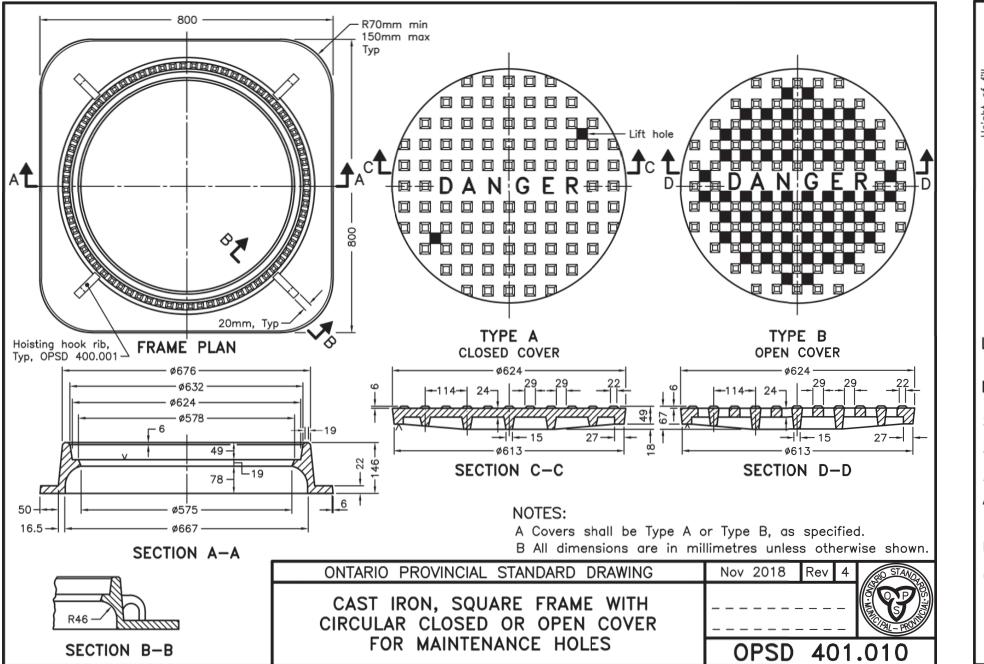


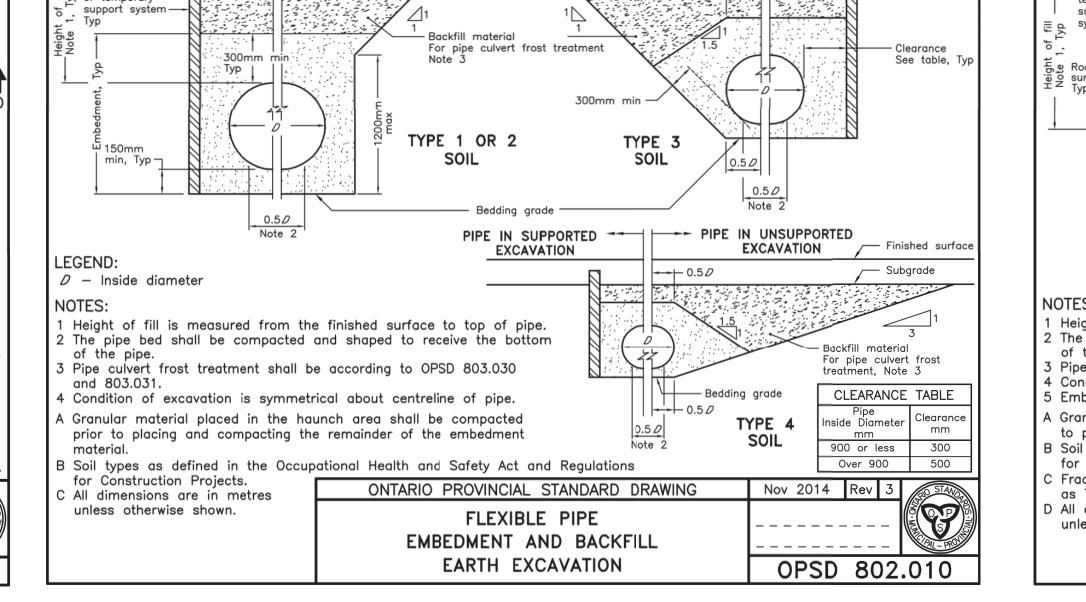
	PLANNING, DEVELOPMENT, AND BUILDING SERVICES DEPARTMENT, CITY OF OTTAWA
PIPE IN PIPE IN UNSUPPORTED EXCAVATION	PIPE IN UNSUPPORTED PIPE IN SUPPORTED SUPPORTED EXCAVATION
Note 5, Typ 150mm min Typ	Subgrade Subgrade Note 4, Typ Overburden Overburde
ORIGINAL ROCK < 1200mm ABOVE TRENCH BOTTOM	ORIGINAL ROCK ≥ 1200mm ABOVE TRENCH BOTTOM
NOTES: 1 Height of fill is measured from the finished surface to top of 2 The pipe bed shall be compacted and shaped to receive the tof the pipe. 3 Pipe culvert frost treatment shall be according to OPSD 803.03 4 Condition of excavation is symmetrical about centreline of pipe 5 Embedment material shall be wrapped in non—woven geotextile A Granular material placed in the haunch area shall be compact to placing and compacting the remainder of the embedment material.	pipe. Dottom Dottom Dottom * - Type 1 or 2 soil ** - Type 3 soil ** - Type 4 soil ** - Type 4 soil CLEARANCE TABLE Pipe Inside Diameter Clearance mm

		MANAGER, DEVELOP PLANNING, DEVELOPMENT DEPARTMENT, C	PMENT REVIEW SOUTH T, AND BUILDING SERVICES
	PE IN UNSUPPORTED CAVATION	PIPE IN UNSUPPOR EXCAVATION	PIPE IN SUPPORTED EXCAVATION
Permanent or temporary support system, Typ Rock Typ Ro	For	Subgrade 3 ckfill material repipe culvert frost treatment te 3	Note 4, Typ Overburden
ORIGINAL ROCK < 1200n TRENCH BOTTO	nm ABOVE	dding grade —	
NOTES: 1 Height of fill is measured from the 2 The pipe bed shall be compacted of the pipe. 3 Pipe culvert frost treatment shall be 4 Condition of excavation is symmetr 5 Embedment material shall be wrapped A Granular material placed in the hauto placing and compacting the remember 10 Soil types as defined in the Occupation.	e finished surface to top of and shaped to receive the be according to OPSD 803.030 ical about centreline of pipe ped in non—woven geotextile unch area shall be compacted ainder of the embedment mo	ottom * — Type 1 c * — Type 1 c ** — Type 3 s *** — Type 4 s when specified. d prior tterial.	ameter or 2 soil soil
for Construction Projects. C Fractured rock shall be treated as Type 1 soil.		AL STANDARD DRAWING	Over 900 500 Nov 2014 Rev 3
D All dimensions are in metres unless otherwise shown.	EMBEDMENT	BLE PIPE AND BACKFILL EXCAVATION	OPSD 802.013

820 A BL 305 623 655 51 51 -38 -32	604 604 604 604 604 604 604 604 604 604
Hoisting hook rib, Typ, OPSD 400.001 FRAME PLAN	19 dia hinge pin, Typ GRATE PLAN SECTION C-C Typ SECTION A-A SECTION C-C 25
See 17 623 1	SECTION D-D SECTION E-E
SECTION B-B 25 29 48 R14.5 SLOT DETAIL	ONTARIO PROVINCIAL STANDARD DRAWING CAST IRON, SQUARE FRAME WITH SQUARE FLAT GRATE FOR CATCH BASINS, HERRING BONE OPENINGS ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 3

OPSD 701.010





EXCAVATION / Finished surface

PIPE IN SUPPORTED --- PIPE IN UNSUPPORTED

Finished surface —

Sheet Number C116 Project Status

NOT FOR CONSTRUCTION

Landscape Architect Civil Engineer

Structural Engineer

Plumbing Engineer

Interior Designer

Equipment Planner

Sheet Reviewer

Project Number

Original Issue

Sheet Name

STAGE 3

2022-09-23 ISSUED FOR PRE-CONSULTATION

3 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION

2023-02-24 ISSUED FOR RFP VERSION 1.0 06 2023-04-12 RE-ISSUED FOR SPC & FLUD/ 2023-07-28 ISSUED FOR PSOS J8 <u>2023-08-04</u> <u>RE-ISSUED FOR PSOS</u>

9 2023-09-29 ISSUED FOR REVIEW AND COSTING

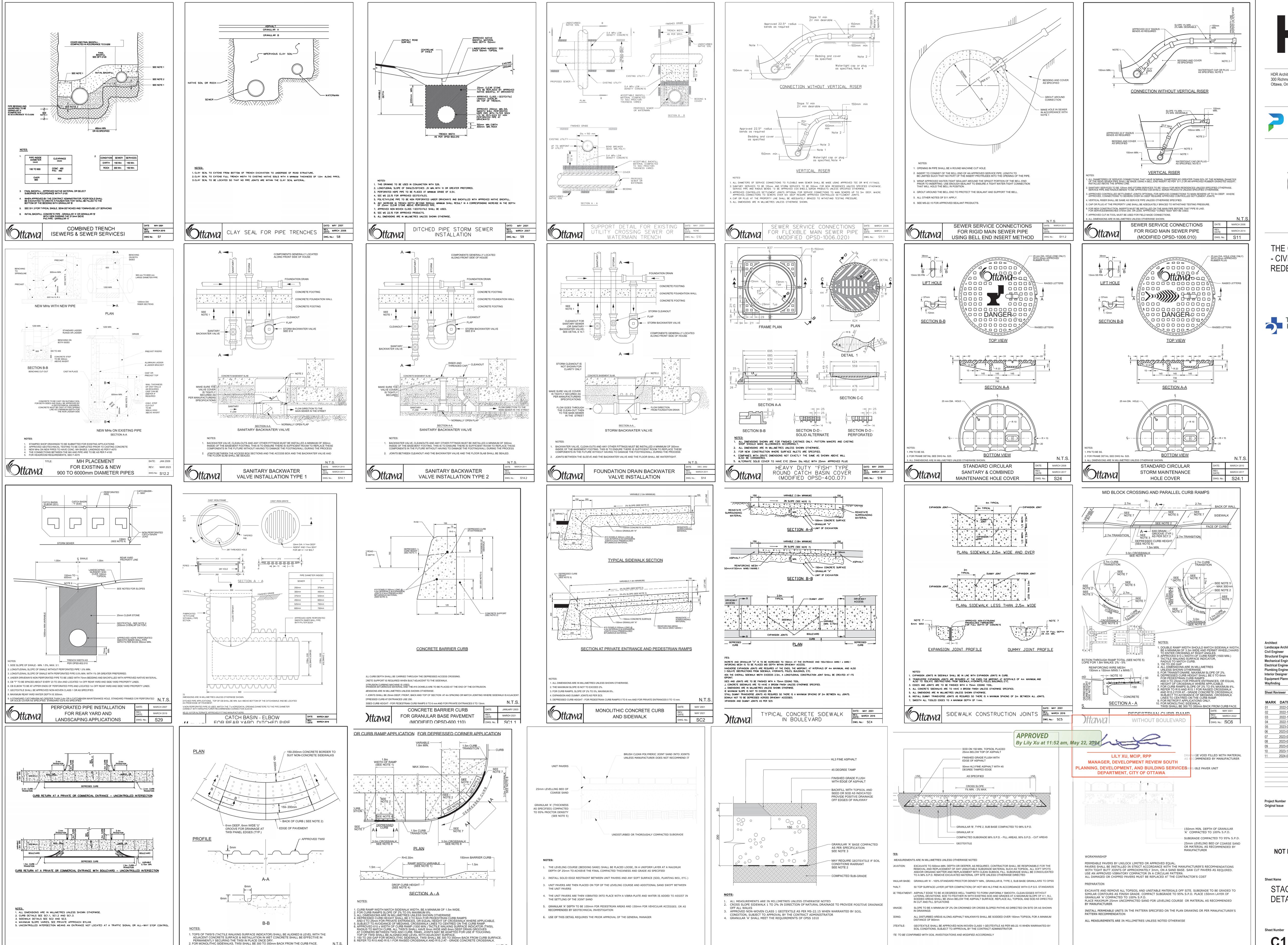
1 2024-01-17 ISSUED FOR DELEGATED AUTHORITY REPORT

2022-10-28 DRAFT FOR 90% SD

2022-12-02 ISSUED FOR 3A1-2

0 2023-10-27 ISSUED FOR MOH 3A.3

Wayfinding



UNIT PAVING - ON GRANULAR BASE

REV: FEB 2016

DWG No: SC9

PEDESTRIAN CURB RAMP

WITH BOULEVARD

MARCH 2022

TWSI DETAIL

DATE: FEB 2013

REV: FEB 2016

DWG No: SC20

DATE: FEB 2013

REV: FEB 2016

ASPHALT WALKWAY/

SERVICE ACCESS - HEAVY DUTY

PERMEABLE PAVING

ASPHALT WALKWAY

HDR Architecture Associates Inc. 300 Richmond Road, Suite 200 Ottawa, Ontario K1Z 6X6





THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Electrical Engineer Plumbing Engineer Interior Designer **Equipment Planner** DESCRIPTION 2022-09-23 ISSUED FOR PRE-CONSULTATION 2022-10-28 DRAFT FOR 90% SD 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION 2022-12-02 ISSUED FOR 3A1-2 2023-02-24 ISSUED FOR RFP VERSION 1.0

> 2023-07-28 ISSUED FOR PSOS 2023-08-04 RE-ISSUED FOR PSOS 2023-09-29 ISSUED FOR REVIEW AND COSTING 2023-10-27 ISSUED FOR MOH 3A.3 2024-01-17 ISSUED FOR DELEGATED AUTHORITY REPORT

2023-04-12 RE-ISSUED FOR SPC & FLUDA

Sheet Number

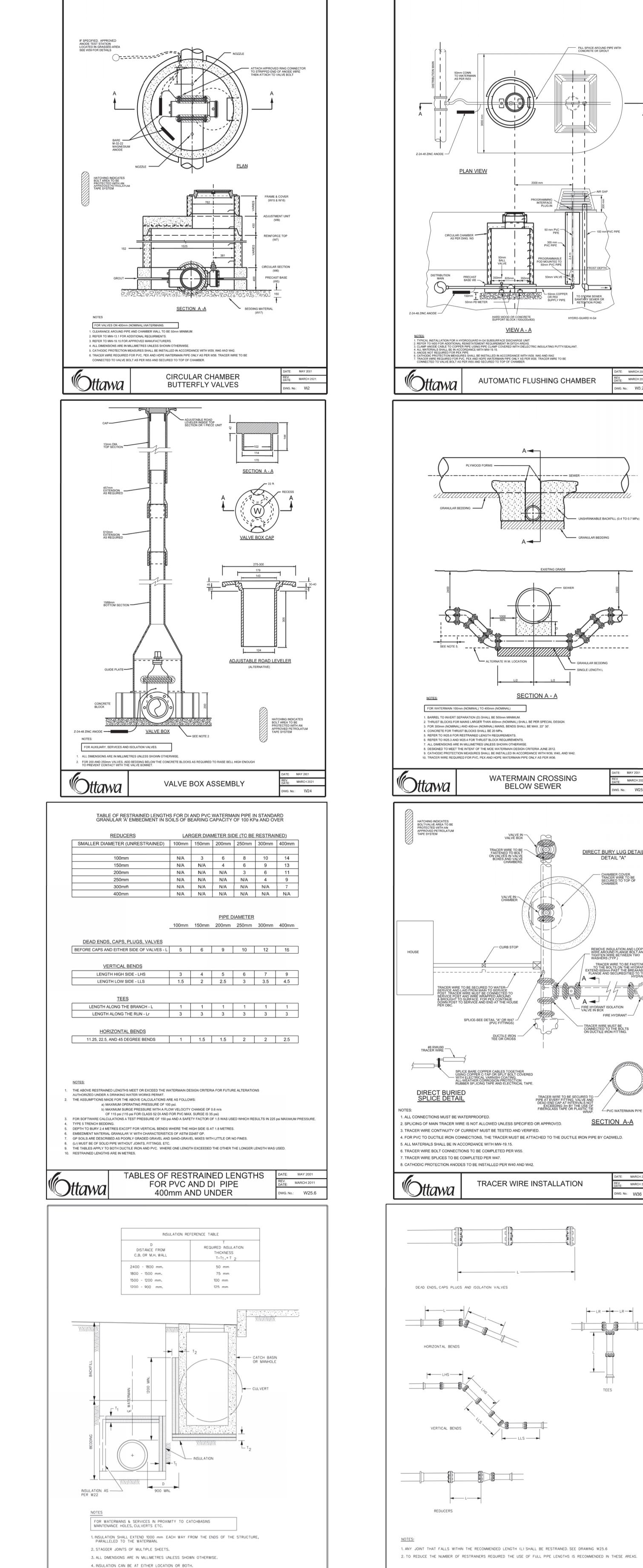
STAGE 3

REV: FEB 2016

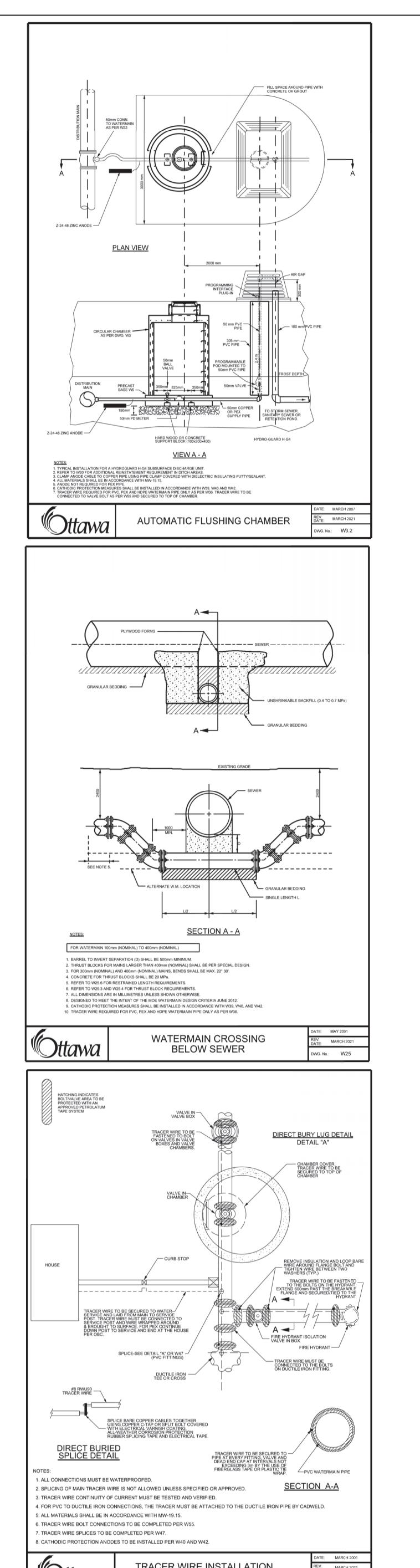
DWG No: SC27

Project Status

D07



THERMAL INSULATION OF WATER-



LR LR LR

REDUCERS

RESTRAINING AND RETAINING RINGS

400mm AND UNDER

FOR PVC AND DIPIPE

SECTION A-A

DETAIL A

1 All hinge brackets and mounting brackets

thoroughly coated with asphalt paint. B Maintenance hole depth between 5.0m and 10.0m, grate shall be placed at midpoint.

Maintenance hole depth between 10.0m

C All fasteners shall be 304 stainless steel.

D All welding shall be according to

E All aluminum components shall be

6000 series structural aluminum.

F All dimensions are in millimetres

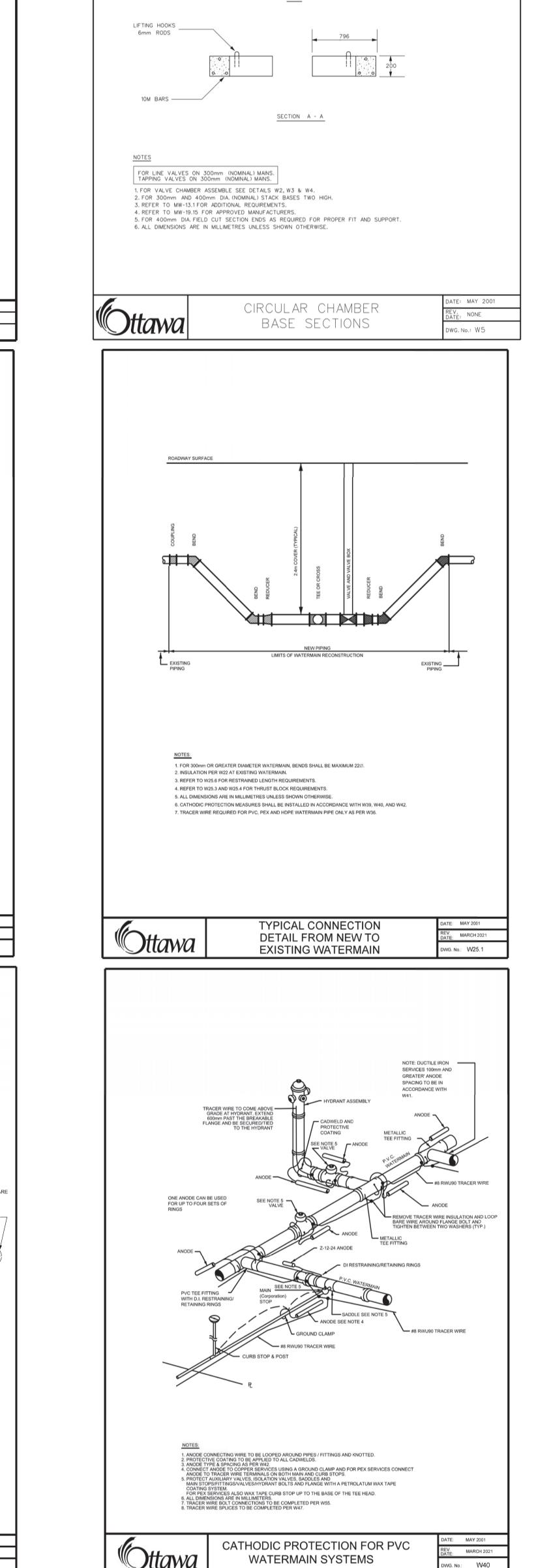
CSA W47.2 and W59.2.

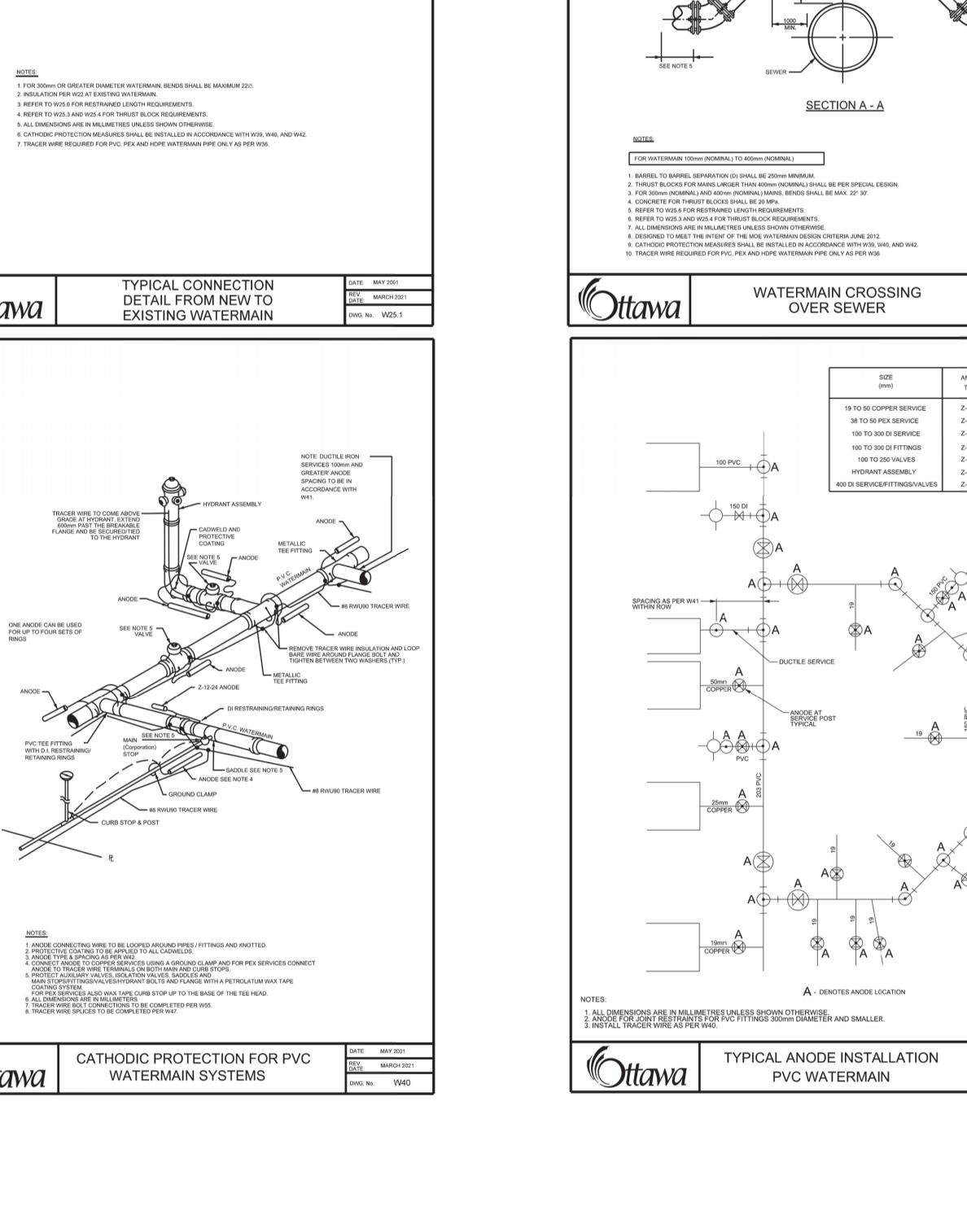
unless otherwise shown.

shall be welded all around to support angle.

A All aluminum in contact with concrete shall be

and 15.0m, grates shall be placed at third-points.





- 13mm dia x 95mm long

OPSD 404.020

DETAIL B Typ DETAIL OF GRATING AND BOLT-ON SUPPORT

ALUMINUM SAFETY PLATFORM

FOR CIRCULAR

MAINTENANCE HOLES

 MH Diameter
 No of Grates
 a
 b
 c
 d
 e
 f
 g

 1200
 2
 900
 850
 850
 225
 352
 65
 10

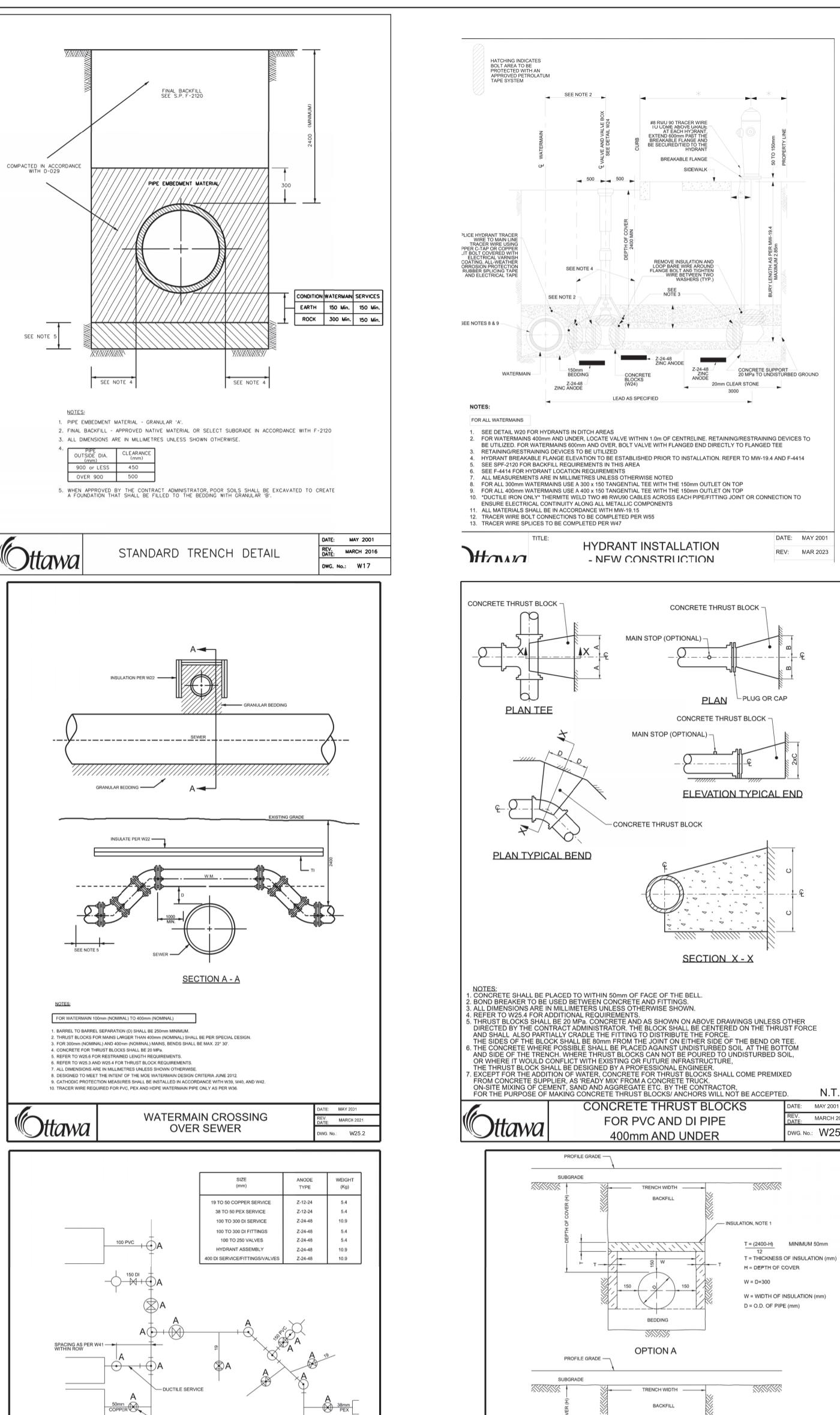
 1500
 2
 1128
 1078
 1078
 311
 419
 65
 12

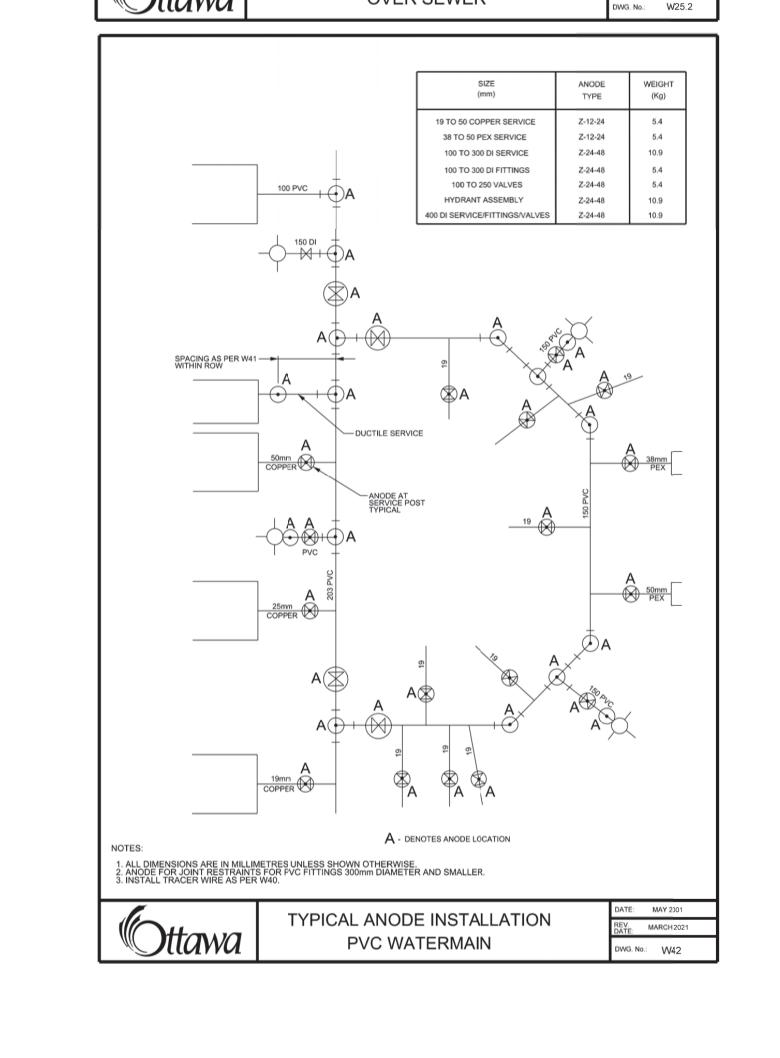
 1800
 3
 1344
 1293
 1293
 308
 360
 65
 12

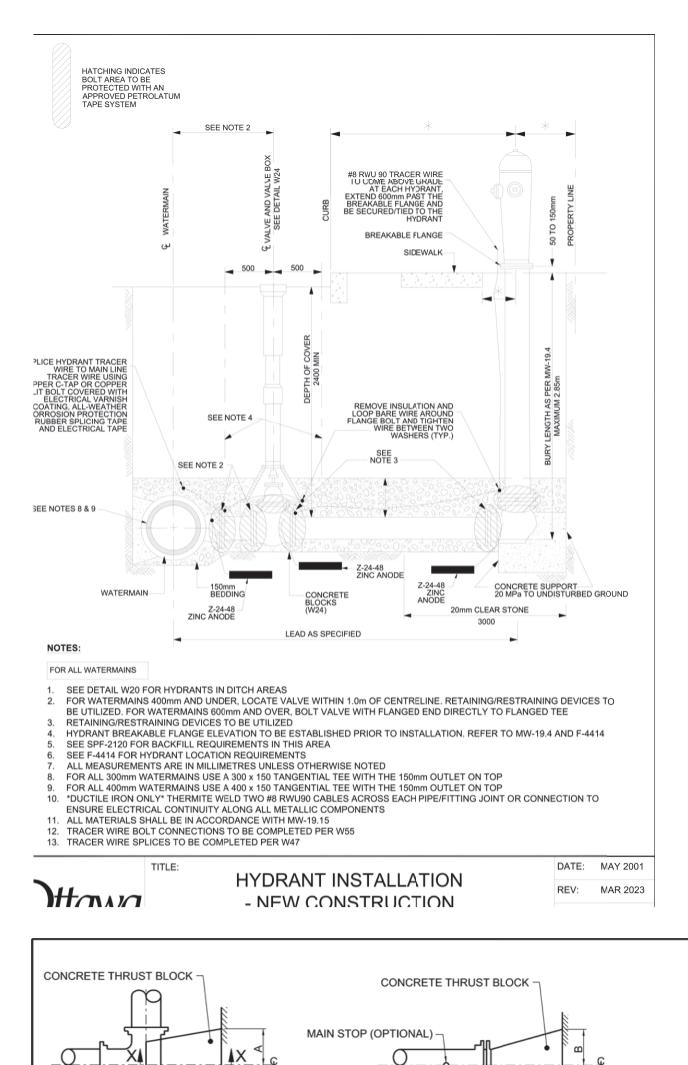
 2400
 4
 1774
 1724
 1724
 401
 360
 65
 12

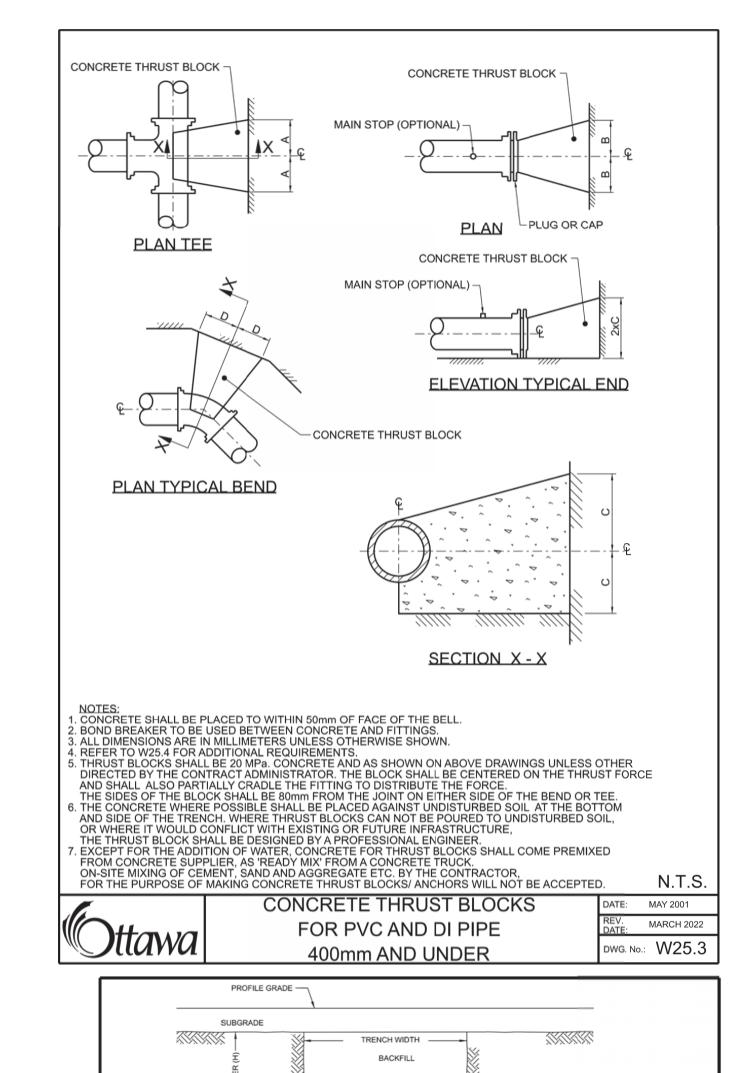
ONTARIO PROVINCIAL STANDARD DRAWING Nov 2018 Rev 4

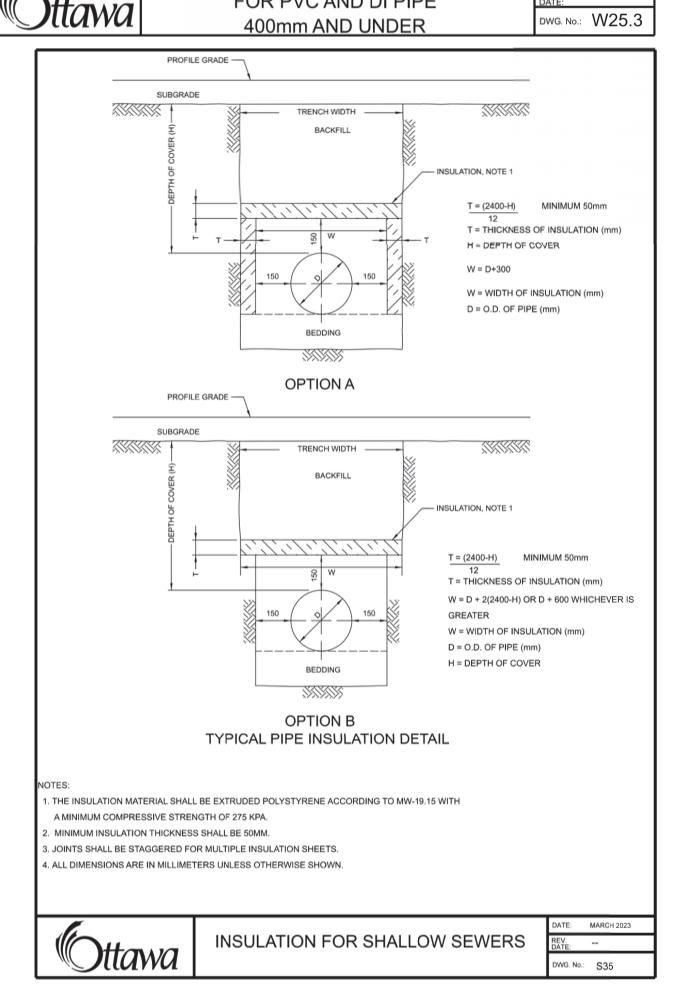
wedge anchor, stainless stee

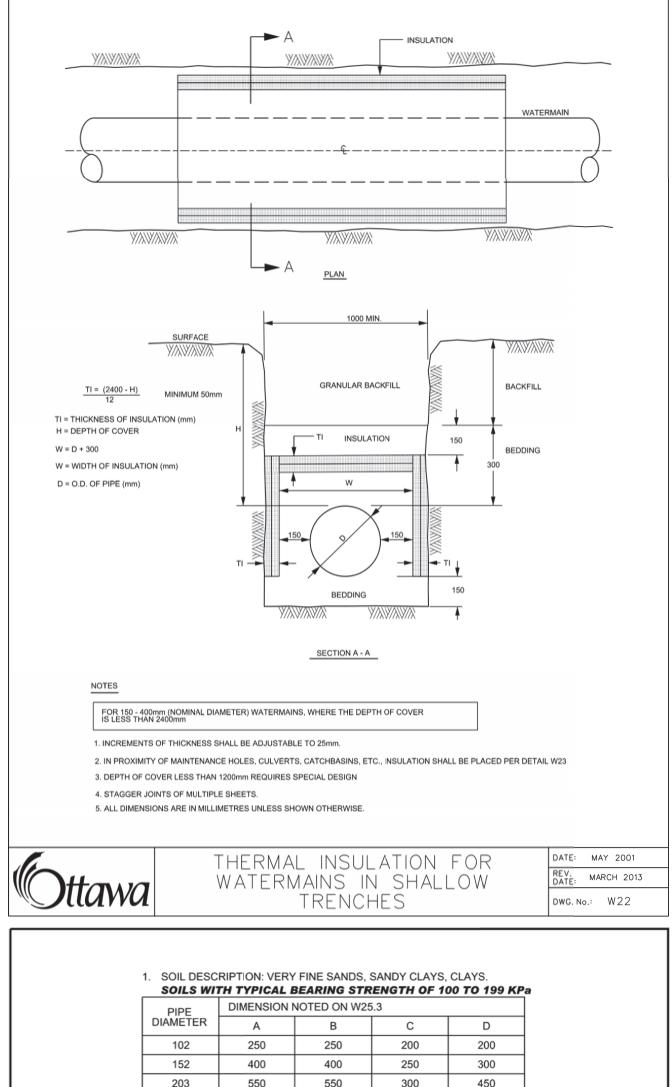


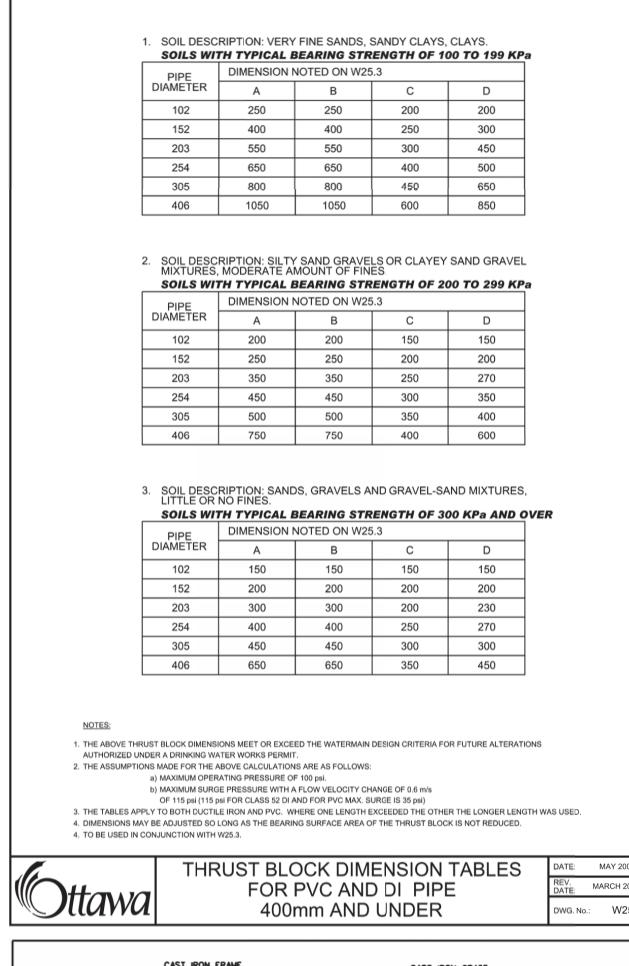


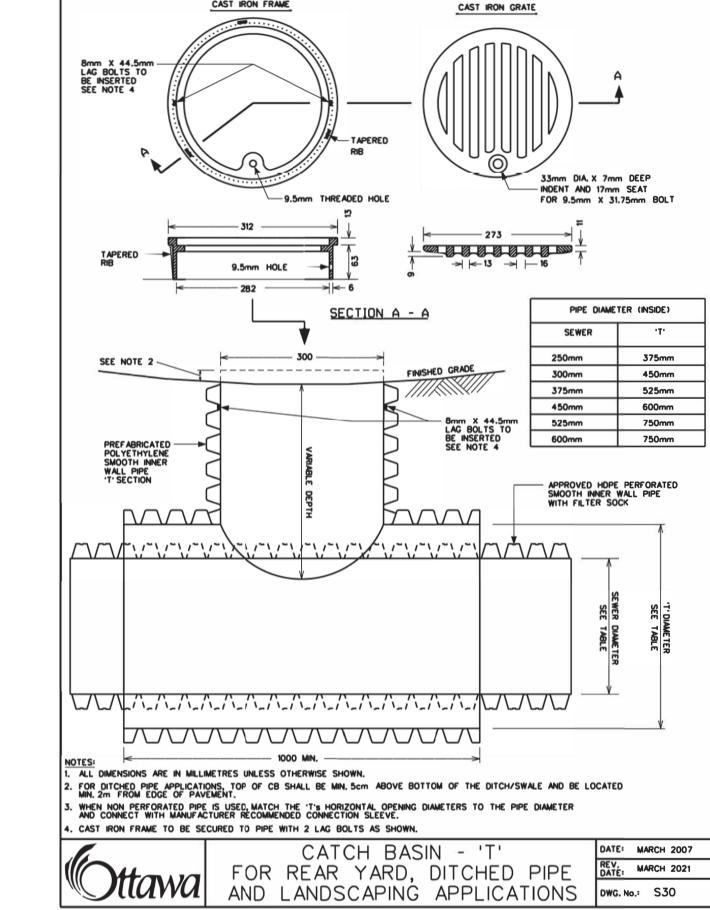
















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THE OTTAWA HOSPITAL - CIVIC CAMPUS



Landscape Architect Civil Engineer Structural Engineer Mechanical Engineer Plumbing Engineer Interior Designer **Equipment Planner** Wayfinding Sheet Reviewer MARK DATE DESCRIPTION 2022-09-23 ISSUED FOR PRE-CONSULTATION 2022-10-28 DRAFT FOR 90% SD 03 2022-11-30 ISSUED FOR SPC & FLUDA - 1ST SUBMISSION 04 2022-12-02 ISSUED FOR 3A1-2 05 2023-02-24 ISSUED FOR RFP VERSION 1.0 06 2023-04-12 RE-ISSUED FOR SPC & FLUDA 07 2023-07-28 ISSUED FOR PSOS 08 2023-08-04 RE-ISSUED FOR PSOS 09 2023-09-29 ISSUED FOR REVIEW AND COSTING 10 2023-10-27 ISSUED FOR MOH 3A.3 11 2024-01-17 ISSUED FOR DELEGATED AUTHORITY REPORT

Project Number Original Issue

NOT FOR CONSTRUCTION

Sheet Number C118

STAGE 3

Project Status

Г		NG DATA	T
CROSSING No.	SEWER ELEV. AT CROSSING	SEWER ELEV. AT CROSSING	CLEARANCE
CR-100	STM, INV. 76.69	WM, TOP. 75.49	1.20 m
CR-101	STM, INV. 76.11 STM, INV. 76.04	WM, TOP. 74.92 SAN, TOP. 74.89	1.19 m
CR-102 CR-103	STM, INV. 76.04 STM, INV. 75.59	WM, TOP. 74.39	1.15 m
CR-104	STM, INV. 75.52	WM, TOP. 74.61	0.90 m
CR-105	STM, INV. 74.70	WM, TOP. 73.19	1.51 m
CR-106	STM, INV. 74.63	SAN, TOP. 73.99	0.64 m
CR-107 CR-108	STM, INV. 73.99 STM, INV. 73.95	WM, TOP. 72.62 SAN, TOP. 73.69	1.37 m 0.27m
CR-109	WM, INV. 72.40	STM, TOP. 72.15	0.25 m
CR-110	SAN, INV. 73.04	STM, TOP. 72.10	0.93 m
CR-111	STM, INV. 73.69	WM, TOP. 72.27	1.42 m
CR-112 CR-113	STM, INV. 73.63 STM, INV. 73.63	SAN, TOP. 73.24 WM, TOP. 72.36	0.40 m 1.27 m
CR-114	STM, INV. 73.57	SAN, TOP. 73.19	0.38 m
CR-115	STM, INV. 73.49	WM, TOP. 72.53	0.96 m
CR-116	STM, INV. 73.43	SAN, TOP. 73.01	0.42 m
CR-117 CR-118	SAN, INV. 73.01 STM, INV. 73.22	WM, TOP. 72.57 WM, TOP. 72.58	0.44 m 0.64 m
CR-116	STM, INV. 73.22 STM, INV. 73.57	WM, TOP. 72.63	0.64 m
CR-120	STM, INV. 73.52	SAN, TOP. 72.89	0.63 m
CR-121	WM, INV. 73.09	SAN, TOP. 72.84	0.25 m
CR-122	WM, INV. 73.09	STM, TOP. 72.42	0.66 m
CR-123 CR-124	STM, INV. 73.72 STM, INV. 73.50	WM, TOP. 72.77 WM, TOP. 72.83	0.95 m 0.67 m
CR-124 CR-125	WM, INV. 73.08	SAN, TOP. 72.83	0.67 m 0.25 m
CR-126	WM, INV. 73.08	STM, TOP. 72.46	0.62 m
CR-127	STM, INV. 73.59	WM, TOP. 72.94	0.65 m
CR-128	STM, INV. 73.54 STM, INV. 74.37	SAN, TOP. 72.81 WM, TOP. 73.81	0.72 m
CR-129 CR-130	STM, INV. 74.37 STM, INV. 74.32	SAN, TOP. 73.81	0.56 m 1.59 m
CR-131	WM, INV. 73.92	SAN, TOP. 72.65	1.27 m
CR-132	WM, INV. 73.99	STM, TOP. 73.66	0.33 m
CR-133	STM, INV. 73.18	SAN, TOP. 72.62	0.57 m
CR-134 CR-135	SAN, INV. 72.92 STM, INV. 76.12	STM, TOP. 72.32 WM, TOP. 75.17	0.59 m 0.95 m
CR-136	STM, INV. 76.06	SAN, TOP. 71.49	4.57 m
CR-137	STM, INV. 76.36	WM, TOP. 75.43	0.93 m
CR-138	STM, INV. 76.30	SAN, TOP. 71.42	4.88 m
CR-139 CR-140	STM, INV. 77.18 STM, INV. 77.12	WM, TOP. 76.01 SAN, TOP. 71.18	1.17 m 5.94 m
CR-141	STM, INV. 77.75	WM, TOP. 76.57	1.18 m
CR-142	STM, INV. 77.70	SAN, TOP. 71.04	6.66 m
CR-143	STM, INV. 78.32	WM, TOP. 77.13	1.19 m
CR-144 CR-145	STM, INV. 78.27 SAN, INV. 73.11	SAN, TOP. 70.28 STM, TOP. 72.53	7.99 m 0.58 m
CR-145	STM, INV. 70.45	SAN, TOP. 69.80	0.65 m
CR-147	STM, INV. 78.48	SAN, TOP. 69.71	8.78 m
CR-148	STM, INV. 77.63	WM, TOP. 76.73	0.90 m
CR-149 CR-150	WM, INV. 77.58 STM, INV. 76.88	SAN, TOP. 69.66 WM, TOP. 75.98	7.92 m 0.90 m
CR-150	STM, INV. 76.83	SAN, TOP. 69.61	7.22 m
CR-152	STM, INV. 76.13	WM, TOP. 75.23	0.90 m
CR-153	STM, INV. 76.08	SAN, TOP. 69.56	6.51 m
CR-154 CR-155	STM, INV. 75.38 STM, INV. 75.32	WM, TOP. 74.48 SAN, TOP. 69.51	0.90 m 5.81 m
CR-156	STM, INV. 74.64	WM, TOP. 73.74	0.90 m
CR-157	STM, INV. 74.58	SAN, TOP. 69.46	5.12 m
CR-158	STM, INV. 74.00	WM, TOP. 73.15	0.85 m
CR-159	STM, INV. 73.94	SAN, TOP. 69.37	4.57 m
CR-160 CR-161	STM, INV. 72.71 WM, INV. 72.54	STM, TOP. 71.92 STM, TOP. 70.48	0.79 m 2.06 m
CR-162	STM, INV. 70.22	SAN, TOP. 69.25	0.97 m
CR-163	SAN, INV. 72.36	STM, TOP. 71.87	0.49 m
CR-164 CR-165	STM, INV. 73.57 STM, INV. 73.52	WM, TOP. 72.66 SAN, TOP. 69.15	0.91 m 4.37 m
CR-165	STM, INV. 73.32 STM, INV. 73.41	WM, TOP. 72.45	0.96 m
CR-167	STM, INV. 73.36	SAN, TOP. 69.10	4.26 m
CR-168	STM, INV. 72.16	WM, TOP. 71.42	0.74 m
CR-169	STM, INV. 72.10 WM, INV. 71.43	SAN, TOP. 68.87 STM, TOP. 71.04	3.23 m
CR-170 CR-171	STM, INV. 69.99	SAN, TOP. 71.04 SAN, TOP. 68.81	0.39 m 1.19 m
CR-172	STM, INV. 72.14	WM, TOP. 71.22	0.92 m
CR-173	STM, INV. 72.08	WM, TOP. 68.68	3.39 m
CR-174	SAN, INV. 71.75 SAN, INV. 72.04	STM, TOP. 71.25 STM, TOP. 71.13	0.51 m
CR-175 CR-176	SAN, INV. 72.04 STM, INV. 69.55	SAN, TOP. 64.95	0.90 m 4.60 m
CR-177	STM, INV. 71.76	WM, TOP. 70.96	0.80 m
CR-178	STM, INV. 71.03	WM, TOP. 70.19	0.84 m
CR-179 CR-180	STM, INV. 71.52 STM, INV. 71.32	STM, TOP. 71.02 STM, TOP. 70.83	0.50 m 0.49 m
CR-180 CR-181	STM, INV. 71.32 STM, INV. 69.36	STM, TOP. 70.83 STM, TOP. 69.05	0.49 m 0.31 m
CR-182	STM, INV. 69.35	SAN, TOP. 66.79	2.57 m
CR-183	STM, INV. 68.07	SAN, TOP. 66.60	1.47 m
CR-184	WM, INV. 67.67	SAN, TOP. 66.61	1.06 m
CR-185 CR-186	STM, INV. 68.07 WM, INV. 67.46	WM, TOP. 67.78 SAN, TOP. 66.63	0.29 m 0.83 m
CR-187	STM, INV. 68.07	WM, TOP. 67.72	0.35 m
CR-188	STM, INV. 69.39	WM, TOP. 67.75	1.64 m
CR-189	WM, INV. 67.41	SAN, TOP. 66.64	0.77 m
CR-190 CR-191	STM, INV. 68.07 STM, INV. 69.39	WM, TOP. 67.68 WM, TOP. 67.76	0.39 m 1.63 m
CR-191 CR-192	STM, INV. 69.39 STM, INV. 68.16	WM, TOP. 67.46	0.70 m
CR-193	STM, INV. 68.25	SAN, TOP. 67.54	0.71 m
CR-194	STM, INV. 68.31	WM, TOP. 67.15	1.16 m
CR-195	SAN, INV. 66.88	WM, TOP. 66.63	0.25 m

CONCRETE SHALL BE USED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL S10. *IF THE CROSSING CLEARANCE IS LESS THAN 0.5m FOR WATERMAIN WITH UTILITIES, NON-SHRINKABLE CONCRETE SHALL BE USED IN ACCORDANCE WITH CITY OF OTTAWA STANDARD DETAIL R20.

*IF THE CROSSING CLEARANCE IS LESS THAN 0.3m FOR SEWER, NON-SHRINKABLE

WATERMAIN TABLE 50+000 (ROAD L TO E)					
STATION	OFFSET (m)	TYPE OF FITTING	GROUND ELEVATION	TOP OF WM. ELEVATION	
50+079.39	0.80 LT	CONNECT TO EX. 300mm WM (ROAD L)	78.03	75.60	
50+079.39	1.00 LT	VALVE & VALVE BOX (HYD.), PER W24	78.02	75.60	
50+079.39	7.14 LT	FIRE HYDRANT, PER W24	77.98	75.58	

	V	VATERMAIN TABLE 40+000	(ROAD L)	
STATION OFFSET (m)		TYPE OF FITTING	GROUND ELEVATION	TOP OF WM ELEVATION
40+043.93	0.00 RT	CONNECT TO EX. 300mm WM (ROAD L)	70.11	EXIST.
40+043.93	3.00 RT	CR-186, REFER TO CROSSING TABLE	70.16	67.70
40+043.93	4.89 RT	CR-187, REFER TO CROSSING TABLE	70.12	67.72
40+043.93	11.93 RT	VALVE & VALVE BOX, PER W24	70.19	67.79
40+043.93	21.96 RT	CR-188, REFER TO CROSSING TABLE	70.15	67.75
40+043.92	28.64 RT	22.5° HORZ. BEND	71.85	69.45
40+043.62	29.39 RT	WM CAP	72.09	69.50
40+047.93	0.00 RT	CONNECT TO EX. 300mm WM (ROAD L)	70.07	EXIST.
40+047.93	3.00 RT	CR-189, REFER TO CROSSING TABLE	70.11	67.71
40+047.93	4.92 RT	CR-190, REFER TO CROSSING TABLE	70.08	67.68
40+047.93	11.66 RT	VALVE & VALVE BOX, PER W24	70.21	67.81
40+047.93	23.25 RT	CR-191, REFER TO CROSSING TABLE	70.16	67.76
40+047.93	29.43 RT	22.5° HORZ. BEND	71.37	68.97
40+047.23	31.11 RT	WM CAP	71.90	69.50
40+110.50	0.00 LT	CONNECT TO EX. 400mm WM (ROAD L)	69.91	EXIST.
40+112.30	0.00 LT	VALVE & VALVE BOX, PER W24	69.91	67.51
40+128.94	0.00 LT	TEE 300x150	69.95	67.55
40+128.94	1.00RT	VALVE & VALVE BOX (HYD.), PER W24	69.94	67.55
40+128.94	3.00RT	CR-196, REFER TO CROSSING TABLE	69.92	67.52
40+128.94	5.75RT	CR-192, REFER TO CROSSING TABLE	69.86	67.46
40+128.94	13.68 RT	FIRE HYDRANT, PER W24	69.73	67.33
40+136.62	0.00 LT	11.25° HORZ. BEND	69.86	67.46
40+138.95	0.00 LT	22.5° HORZ. BEND	69.83	67.43
40+194.37	0.00 LT	TEE 300x150	69.65	67.25
40+194.37	1.00 RT	VALVE & VALVE BOX (HYD.), PER W24	69.63	67.23
40+194.37	1.00 RT	CR-194, REFER TO CROSSING TABLE	69.59	67.19
40+194.37	1.00 RT	CR-195, REFER TO CROSSING TABLE	69.55	67.15
40+194.37	11.26 RT	45° HORZ. BEND	69.46	67.06
40+197.00	13.89 RT	FIRE HYDRANT, PER W24	69.47	67.07
40+195.37	0.00 LT	CAP WM	69.64	67.24

	V	VATERMAIN TABLE 5+000	(ROAD E)		
STATION OFFSET (m)		TYPE OF FITTING	GROUND ELEVATION	TOP OF WM. ELEVATION	
5+188.79	1.90 LT	CONNECT TO EX. 300mm WM (ROAD L)	75.18	EXIST.	
5+188.79	0.90 LT	VALVE & VALVE BOX, PER W24	75.16	72.70	
5+188.79	0.61 LT	45° VERT. BEND	75.17	72.71	
5+188.79	0.25 LT	45° VERT. BEND	75.18	73.08	
5+188.79	0.90 RT	CR-124, REFER TO CROSSING TABLE	75.19	73.10	
5+188.79	2.06 RT	45° VERT. BEND	75.21	73.13	
5+188.79	2.37 RT	45° VERT. BEND	75.22	72.83	
5+188.79	3.26 RT	CR-126, REFER TO CROSSING TABLE	75.24	72.84	
5+188.79	4.77 RT	CAP WM	75.42	72.88	
5+191.79	1.91 LT	CONNECT TO EX. 300mm WM (ROAD L)	75.14	EXIST.	
5+191.79	1.11 LT	VALVE & VALVE BOX, PER W24	75.12	72.72	
5+191.79	0.60 LT	45° VERT. BEND	75.13	72.73	
5+191.79	0.26 LT	45° VERT. BEND	75.14	73.09	
5+191.79	0.90 RT	CR-121, REFER TO CROSSING TABLE	75.16	73.11	
5+191.79	2.06 RT	45° VERT. BEND	75.19	73.14	
5+191.79	2.41 RT	45° VERT. BEND	75.19	72.80	
5+191.79	3.26 RT	CR-122, REFER TO CROSSING TABLE	75.21	72.81	
5+191.79	4.80 RT	CAP WM	75.39	72.85	

STORM MAINTENANCE HOLE DATA						
					INVERT EL	EVATIONS
NO.	STATION	OFFSET	COVER	STRUCTURE	T/GRATE	INVERTS
CBMHST 101			SLF / S28.1	OPSD 701.010	76.41	74.40 W 73.84 SE 73.63 NW
CBMHST 103			SLF / S28.1	OPSD 701.010	74.28	72.13 SE 72.16 SW 72.10 NW
CBMHST 104			SLF / S28.1	OPSD 701.010	76.59	75.17 SE 75.19 NE 74.14 NW
CBMHST 105	⁻		SLF / S28.1	OPSD 701.010	74.73	72.43 SE 72.40 NW
CBMHST 108	3+086.48	4.12 LT	SLF / S28.1	OPSD 701.011	81.54	71.56 SE 71.56 NW
CBMHST 109	3+051.87	3.59 LT	SLF / S28.1	OPSD 701.011	81.00	71.49 SE 71.49 N
CBMHST 110	3+035.35	20.20 LT	SLF / S28.1	OPSD 701.011	79.38	71.45 S 71.45 NE
CBMHST 111	3+101.07	4.71 LT	SLF / S28.1	OPSD 701.010	82.40	72.48 NE 71.59 NW
MHST 120	7+142.55	6.32 RT	SLF / S24.1	OPSD 701.013	74.18	63.28 NE
MHST 131	40+082.95	4.68 RT	SLF / S24.1	OPSD 701.011	69.71	68.12 SW 68.12 N
MHST 133	40+137.31	5.95 RT	SLF / S24.1	OPSD 701.011	69.80	68.25 S 68.79 NW 68.17 NE
MHST 139	40+208.28	5.00 RT	SLF/S24.1	OPSD 701.011	69.85	68.49 W 68.32 N
MHST 170	5+282.20	13.78 LT	SLF / S24.1	OPSD 701.010	74.51	71.96 NE 71.93 SW
OGS 3	5+274.71	276.34 LT	SLF / 24.1	OPSD 701.013	70.46	67.63 W 67.63 E

	STORM LANDSCAPE DRAIN DATA										
					INVERT EL	EVATIONS					
NO.	STATION	OFFSET	COVER	STRUCTURE	T/FRAME	INVERTS					
LD 101			S30	S30	81.82	80.60 SE 80.60 NW					
LD 102			S30	S30	81.97	80.85 NE 80.85 NW					
LD 103		, 	S30	S30	82.08	81.04 NE 81.04 SW					
LD 104			S31	S31	82.26	81.33 SW					
LD 105	40+099.70	15.68 LT	S30	S30	69.40	68.35 NE					
LD 106	40+087.58	13.07 LT	S30	S30	69.22	68.29 SW 68.29 N					
LD 107	40+053.82	7.30 LT	S30	S30	69.09	68.16 S 68.16 NE					
LD 108	40+022.62	10.91 RT	S30	S30	68.92	67.68 N					
LD 109	40+010.89	7.24 RT	S30	S30	68.89	67.64 S 67.64 NE					
LD 110	40+000.85	6.49 RT	S30	S30	68.85	67.60 SW 67.60 NW					

- OFFSETS ARE FROM CONTROL LINE TO CENTER OF STRUCTURE

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	SANITARY MAINTENANCE HOLE DATA										
Γ						INVERT EL	EVATIONS				
L	NO.	STATION	OFFSET	COVER	STRUCTURE	T/GRATE	INVERTS				
	MHSA 12	40+085.20	3.00 RT	SLF / S24	OPSD 701.010	69.75	66.50 SW 66.46 N				
	MHSA 13	40+138.52	3.36 RT	SLF / S24	OPSD 701.010	69.81	66.70 S 67.32 NW 66.67 NE				
	MHSA 14	40+209.74	3.00 RT	SLF / S24	OPSD 701.010	69.89	66.99 W 66.93 N				
	OFFSETS ARE FROM CONTROL LINE TO CENTER OF STRUCTURE SLF DENOTES SELF LEVEL FRAME										

CULVERT DATA											
CULVERT	DIA. TYPE		LENGTH	SLOPE	INVERT ELEVATIONS						
ID (mm) TYPE	(m)	SLOPE	UPSTR.	DOWNSTR.							
CULV 301	300	CSP	10.89	2.00%	66.03	65.82					
CULV 302	300	CSP	8.79	0.50%	65.60	65.55					
CULV 303	300	CSP	6.69	0.50%	65.54	65.51					

					ICE	DATA				
ID	DRAINAGE AREA NO.	LOCATION	STORAGE ID	OUTLET DIAMETER	FLOW (L/s)	HEAD (m)	HGL ELEVATION	MODEL**	STORAGE VOLUME REQUIRED (cu.m.)	AVAILABLE STORAGE VOLUME (cu.m.)
ICD 102	STM 61 & 64	MHST 170	-	300mm	17.18 (100YR + 20%) 17.18 (100YR) 16.95 (5YR) 14.85 (2YR)	-	-	CUSTOM BUILT PLATE	-	-
ICD 103	STM 44	MHST 155	-	900mm	1498.95 (100YR + 20%) 1385.39 (100YR) 763.88 (5YR) 521.62 (2YR)	-	-	CUSTOM BUILT PLATE	-	-
ICD 104	STM 40, 41, 42, 43, 44, 45, 45A, 47, 49, 50, 51, 61, 63, 64, & 65	MHST 145	-	1200mm	1816.87 (100YR + 20%) 1818.47 (100YR) 1036.99 (5YR) 596.44 (2YR)	-	-	CUSTOM BUILT PLATE	-	-
ICD 105	STM 40, 41, 42, 43, 44, 45, 45A, 47, 48, 49, 50, 51, 54, 55, 56, 61, 63, 64 & 65	MHST 142	-	1200mm	1746.85 (100YR + 20%) 1589.90 (100YR) 1082.53 (5YR) 634.73 (2YR)	-	-	CUSTOM BUILT PLATE	-	-
ICD 110	STM 63	DICB 4	S-63	250mm	99.51 (100YR + 20%) 97.88 (100YR) 85.97 (5YR) 70.94 (2YR)	4.11 (100YR + 20%) 3.99 (100YR) 3.14 (5YR) 2.18 (2YR)	82.31 (100YR + 20%) 82.19 (100YR) 81.34 (5YR) 80.38 (2YR)	HYDROVEX MODEL	180 (100YR + 20%) 117 (100YR) 16 (5YR) 1 (2YR)	180 (100YR + 20%) 117 (100YR) 16 (5YR) 1 (2YR)
ICD 111	STM 60, 60A, 60B, & 60C	DICB 1	S-60	250mm	4.36 (100YR + 20%) 4.18 (100YR) 3.68 (5YR) 3.38 (2YR)	2.16 (100YR + 20%) 1.98 (100YR) 1.56 (5YR) 1.35 (2YR)	70.00 (100YR + 20%) 69.82 (100YR) 69.40 (5YR) 69.19 (2YR)	HYDROVEX MODEL	287 (100YR + 20%) 190 (100YR) 47 (5YR) 11 (2YR)	287 (100YR + 20%) 190 (100YR) 47 (5YR) 11 (2YR)
ICD 5***	STM 21B, 46, & 58	CB 35	S-21B	300mm	4.21 (100YR + 20%) 4.10 (100YR) 3.85 (5YR) 3.76 (2YR)	2.01 (100YR + 20%) 1.91 (100YR) 1.71 (5YR) 1.63 (2YR)	65.55 (100YR + 20%) 65.45 (100YR) 65.25 (5YR) 65.17 (2YR)	HYDROVEX MODEL NO. 75 VHV-1	889 (100YR + 20%) 662 (100YR) 213 (5YR) 71 (2YR)	889 (100YR + 20%) 662 (100YR) 213 (5YR) 71 (2YR)
ICD 7***	STM 26B	DICB 2	S-26B	200mm	15.83 (100YR + 20%) 15.46 (100YR) 14.03 (5YR) 12.92 (2YR)	2.35 (100YR + 20%) 2.24 (100YR) 1.86 (5YR) 1.60 (2YR)	69.68 (100YR + 20%) 69.57 (100YR) 69.19 (5YR) 68.93 (2YR)	HYDROVEX MODEL NO. 100 VHV-1	284 (100YR + 20%) 204 (100YR) 48 (5YR) 10 (2YR)	284 (100YR + 20%) 204 (100YR) 48 (5YR) 10 (2YR)
ICD 8***	STM 26D	DICB 1	S-26D	300mm	3.59 (100YR + 20%) 3.49 (100YR) 3.21 (5YR) 1.95 (2YR)	1.49 (100YR + 20%) 1.42 (100YR) 1.22 (5YR) 0.44 (2YR)	69.15 (100YR + 20%) 69.05 (100YR) 68.88 (5YR) 68.10 (2YR)	HYDROVEX MODEL NO. 50 VHV-1	28 (100YR + 20%) 19 (100YR) 3 (5YR) 0 (2YR)	28 (100YR + 20%) 19 (100YR) 3 (5YR) 0 (2YR)

*ICD SHOP DRAWINGS TO BE SUBMITTED FOR REVIEW AND APPROVAL
**ICD MODELS TO BE AS SPECIFIED OR APPROVED EQUIVALENT
***ICD MODELS AS SPECIFIED IN PARKING GARAGE CONTRACT

WEIR DATA							
ID	DRAINAGE AREA NO.	LOCATION	FLOW (L/s)	MODEL**			
WEIR 102	STM 61 & 64	MHST 170	175.76 (100YR + 20%) 131.37 (100YR) 14.59 (5YR) 0.00 (2YR)	CUSTOM BUILT PLATE			
WEIR 103	STM 44	MHST 155	683.36 (100YR + 20%) 19.89 (100YR) 0.00 (5YR) 0.00 (2YR)	CUSTOM BUILT PLATE			
WEIR 104	STM 40, 41, 42, 43, 44, 45, 45A, 47, 49, 50, 51, 61, 63, 64, & 65	MHST 145	1097.56 (100YR + 20%) 139.30 (100YR) 0.00 (5YR) 0.00 (2YR)	CUSTOM BUILT PLATE			
WEIR 105	STM 40, 41, 42, 43, 44, 45, 45A, 47, 48, 49, 50, 51, 54, 55, 56, 61, 63, 64 & 65	MHST 142	876.68 (100YR + 20%) 377.33 (100YR) 0.00 (5YR) 0.00 (2YR)	CUSTOM BUILT PLATE			

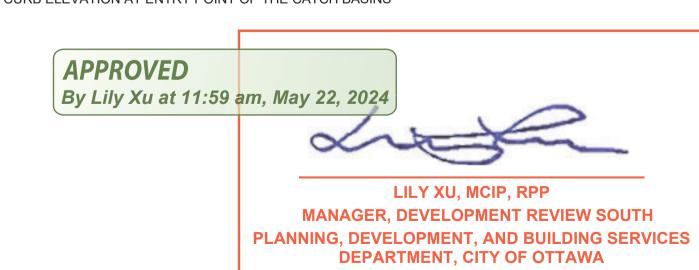
	T			PIPE DATA			INVERTE	LEVATIONS
PIPE ID	FROM	ТО	DIA. (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR.	DOWNSTF
ST 100	MHST 120	CAP	1500	CONC. 140D	28.85	0.10%	63.28	63.25
ST 130	CB116	CBMHST 104	300	PVC SDR35	17.38	2.00%	75.52	75.17
ST 131	CB118	CBMHST 104	300	PVC SDR35	16.50	2.00%	75.52	75.19
ST 132	CBMHST 104	CBMHST 101	300	PVC SDR35	15.14	2.00%	74.14	73.84
ST 133	DICB6	CBMHST 101	200	PVC SDR35	15.57	2.00%	74.71	74.40
ST 136	CBMHST 101	CBMHST 105	375	Concrete Pipe SI	48.02	2.50%	73.63	72.43
ST 137	CBMHST 105	CBMHST 103	375	Concrete Pipe SI	17.58	1.54%	72.40	72.13
ST 138	CB115	CBMHST 103	375	Concrete Pipe SI	20.08	1.00%	72.36	72.16
ST 139	CBMHST 103	CHAMBER 102	375	PVC SDR35	2.58	1.00%	72.10	72.07
ST 140	CHAMBER 102	MHST 170	375	Concrete Pipe SI	10.58	1.00%	72.07	71.96
ST 141	MHST 170	MHST 158	300	PVC SDR35	13.45	1.00%	71.93	71.80
ST 142	LD 104	LD 103	300	PVC Pipe SI	58.79	0.50%	81.33	81.04
ST 143	LD 103	LD 102	375	PVC Pipe SI	37.62	0.50%	81.04	80.85
ST 144	LD 102	LD 101	375	PVC Pipe SI	49.25	0.50%	80.85	80.60
ST 145	LD 101	DICB4	375	PVC Pipe SI	62.73	0.50%	80.60	80.29
ST 146	DICB4	MHST154A	300	Concrete Pipe SI	16.20	2.00%	80.23	79.91
ST 147	CAP 018	CBMHST 111	200	PVC SDR35	2.25	1.00%	72.50	72.48
ST 148	CBMHST 111	CBMHST 108	600	PVC SDR35	15.32	0.20%	71.59	71.56
ST 149	CBMHST 108	CBMHST 109	600	PVC SDR35	35.73	0.20%	71.56	71.49
ST 150	CBMHST 109	CBMHST 110	600	PVC SDR35	20.78	0.20%	71.49	71.45
ST 151	CBMHST 110	MHST 135	600	PVC SDR35	17.93	0.20%	71.45	71.41
ST 152	CUP	MHST 158 TO MHST 141 PIPE	375	PVC SDR35	5.49	1.00%	72.80	72.75
ST 153	BLDG AREA 51	MHST 158 TO MHST 141 PIPE	375	PVC SDR35	32.56	1.00%	73.50	73.17
ST 154	BLDG AREA 51	MHST 160	450	PVC SDR35	33.22	1.00%	73.50	73.17
ST 155	CUP	MAIN PIPE	375	PVC SDR35	2.51	1.00%	72.80	72.77
ST 156	BLDG AREA 50	MAIN PIPE	450	PVC SDR35	20.47	2.00%	73.15	72.74
ST 157	BLDG AREA 49	MAIN PIPE	300	PVC SDR35	21.02	2.00%	72.80	72.38
ST 158	CHAMBER 104	MHST 145	900	CONC. 100D	8.42	1.00%	70.05	69.97
ST 159	BLDG AREA 48	MAIN PIPE	300	PVC SDR35	10.80	2.00%	72.00	71.78
ST 160	BLDG AREA 56	MAIN PIPE	450	PVC SDR35	20.85	2.00%	72.50	72.08
ST 161	BLDG AREA 55	MAIN PIPE	450	PVC SDR35	47.02	2.00%	72.50	71.56
ST 162	BLDG AREA 54	MHST 142	300	PVC SDR35	2.45	2.00%	71.38	71.33
ST 163	LD 110	DICB 2	300	PVC Pipe SI	4.71	0.33%	67.60	67.58
ST 164	LD 109	LD 110	300	PVC Pipe SI	12.90	0.30%	67.64	67.60
ST 165	LD 108	LD 109	300	PVC Pipe SI	12.29	0.30%	67.68	67.64
ST 167	BLDG AREA 52	MHST 139	525	CONC. 50D	28.56	1.50%	68.92	68.49
ST 168	MHST 139	MHST 133	750	CONC. 50D	72.94	0.10%	68.32	68.25
ST 169	BLDG AREA 53	MHST 133	300	PVC SDR35	24.90	1.00%	69.04	68.79
ST 170	MHST 133	MHST 131	825	CONC. 50D	51.37	0.10%	68.17	68.12
ST 171	MHST 131	MHST 130	825	CONC. 50D	47.86	0.10%	68.12	68.07
ST 174	LD 106	LD 107	450	PVC Pipe SI	42.17	0.30%	68.29	68.16
ST 175	LD 107	DICB8	450	PVC Pipe SI	16.70	0.30%	68.16	68.11
ST 177	LD 105	LD 106	450	PVC Pipe SI	12.40	0.50%	68.35	68.29

	1	1		Y PIPE DAT	1		T	
PIPE ID	FROM	ТО	DIA. (mm)	TYPE	LENGTH (m)	SLOPE	UPSTR.	DOWNSTF
SA 131	CAP 108	MHSA 13	200	PVC SDR35	27.33	1.00%	67.59	67.32
SA 132	CAP 107	MHSA 14	250	PVC SDR35	30.53	1.00%	67.30	66.99
SA 133	MHSA 14	MHSA 13	300	PVC SDR35	72.37	0.32%	66.93	66.70
SA 134	MHSA 13	MHSA 12	300	PVC SDR35	51.57	0.32%	66.67	66.50
SA 135	MHSA 12	MHSA 11	300	PVC SDR35	53.13	0.32%	66.46	66.29
SA 136	CAP 109	MHSA 20	200	PVC SDR35	5.29	2.00%	71.38	71.27
SA 137	CAP 111	MHSA 23	150	PVC SDR35	50.50	2.00%	72.50	71.49
SA 138	CAP 110	MHSA 23A	150	PVC SDR35	24.33	2.00%	72.50	72.01
SA 139	CAP 101	MHSA 25	200	PVC SDR35	13.98	2.00%	72.00	71.72
SA 140	CAP 102	MHSA 28	200	PVC SDR35	24.46	2.00%	72.80	72.31
SA 141	CAP 113	MHSA 30	200	PVC SDR35	23.66	2.00%	73.15	72.68
SA 142	CAP 103	MHSA 54	200	PVC SDR35	5.93	1.00%	72.96	72.90
SA 143	CAP 104	MHSA 54	250	PVC SDR35	30.86	1.00%	72.69	72.38
SA 144	CAP 105	MHSA 55	250	PVC SDR35	30.72	1.00%	72.99	72.68
SA 145	CAP 106	MHSA 56	200	PVC SDR35	7.49	1.00%	73.13	73.06

		·		CATCHBA					D 01 =	A.D.
NO.	STATION	OFFSET	COVER	STRUCTURE	T/FRAME	ATION INVERTS	ICD ID	SIZE	B OUTLET LE/ LENGTH	AD SLOPE
CB40	10+020.06	9.49 LT	S19	OPSD 701.010 B	72.49	71.11 SE		200mm	7.07m	2.00%
CB41	6+006.28	18.09 RT	S19	OPSD 701.010 B	83.13	81.75 S		200mm	5.47m	2.00%
CB42	6+014.20	5.16 LT	S19	OPSD 701.010 B	82.89	81.51 SE		200mm	6.28m	2.00%
CB43	6+020.59	3.53 RT	S19	OPSD 701.010 B	82.53	81.15 NW		200mm	1.60m	2.00%
CB44 CB45	6+029.25 6+035.59	4.04 LT 4.00 RT	S19 S19	OPSD 701.010 B OPSD 701.010 B	82.12 81.80	80.74 SE 80.42 NW		200mm 200mm	5.23m 2.02m	2.00%
CB45 CB46	6+044.24	4.00 KT	S19	OPSD 701.010 B	81.36	79.98 SE		200mm	5.24m	2.00%
CB47	6+050.59	4.00 RT	S19	OPSD 701.010 B	81.05	79.67 NW		200mm	1.74m	2.00%
CB48	6+059.24	4.00 LT	S19	OPSD 701.010 B	80.61	79.23 SE		200mm	5.06m	2.00%
CB49	6+074.24	4.00 LT	S19	OPSD 701.010 B	79.86	78.55 SE		200mm	4.68m	2.00%
CB50	6+087.26	4.00 RT	S22/S23	OPSD 701.010 B	79.36	78.05 NW		200mm	1.16m	2.00%
CB51	6+089.24	4.00 LT	S22/S23	OPSD 701.010 B	79.26	77.95 SE		200mm	4.83m	2.00%
CB52	6+102.26	4.00 RT	S22/S23	OPSD 701.010 B	78.61	77.30 NW		200mm	1.06m	2.00%
CB53	6+104.24	4.00 LT	S22/S23	OPSD 701.010 B	78.51	77.20 SE		200mm	4.89m	2.00%
CB54	6+117.26	4.00 RT	S22/S23	OPSD 701.010 B	77.86	76.55 NW		200mm	0.89m	2.00%
CB55	6+119.24	4.00 LT	S22/S23	OPSD 701.010 B	77.76	76.45 SE		200mm	5.04m	2.00%
CB56 CB57	6+132.26 6+134.24	4.00 RT 4.00 LT	S22/S23 S22/S23	OPSD 701.010 B OPSD 701.010 B	77.11 77.01	75.80 NW 75.70 SE		200mm 200mm	0.86m 5.13m	2.00%
CB58	6+145.43	4.00 ET	S22/S23	OPSD 701.010 B	76.45	75.14 NW		200mm	0.79m	2.00%
CB59	6+149.53	4.05 LT	S22/S23	OPSD 701.010 B	76.27	74.96 SE		200mm	5.27m	2.00%
CB60	6+156.64	6.17 RT	S19	OPSD 701.010 B	75.82	74.44 NW		200mm	2.39m	2.00%
CB61	6+167.12	4.49 LT	S22/S23	OPSD 701.010 B	75.65	74.34 E		200mm	6.22m	4.41%
CB62	6+209.66	7.54 LT [*]	S19	OPSD 701.010 B	75.03	73.65 E		200mm	8.53m	2.00%
CB63	6+216	5.87 RT	S19	OPSD 701.010 B	75.00	73.62 W		200mm	2.90m	2.00%
CB64	6+186.80	4.96 RT*	S19	OPSD 701.010 B	75.24	73.86 W		200mm	1.22m	2.31%
CB65	6+205.61	4.76 RT*	S19	OPSD 701.010 B	75.05	73.67 W		200mm	1.86m	2.22%
CB66	7+151.26	9.54 RT	S19	OPSD 701.010 B	74.33	72.95 NW		200mm	8.73m	2.00%
CB67 CB68	7+133.26 7+022.50	3.19 RT	S19	OPSD 701.010 B	74.03 73.54	72.65 E		200mm	9.07m 6.15m	2.00%
CB68 ————————————————————————————————————	7+022.50 10+003.76	5.45 LT 6.32 RT	S19 S19	OPSD 701.010 B OPSD 701.010 B	73.54 73.51	72.16 S 72.13 NW		200mm 200mm	6.15m 6.76m	2.00%
CB70	10+005	10.59 LT	S19	OPSD 701.010 B	73.25	71.87 SE		200mm	8.07m	2.00%
CB71	10+018.87	6.30 RT	S19	OPSD 701.010 B	72.68	71.30 NW		200mm	6.40m	2.00%
CB72	5+058.49	3.95 LT	S22/S23	OPSD 701.010 B	79.09	77.78 SW		200mm	5.96m	2.00%
CB73	5+300	5.15 RT*	S19	OPSD 701.010 B	74.98	73.60 NE		375mm	2.80m	2.00%
CB74	5+074.13	3.90 LT	S22/S23	OPSD 701.010 B	78.52	77.21 SW		200mm	7.61m	2.00%
CB75	5+043.09	3.95 LT	S22/S23	OPSD 701.010 B	79.66	78.35 SW		200mm	5.48m	2.00%
CB76	5+080.31	4.07 RT	S19	OPSD 701.010 B	78.18	76.80 SW		200mm	1.44m	2.00%
CB77	5+064.31	5.32 RT	S19	OPSD 701.010 B	78.76	77.38 N		200mm	1.65m	2.00%
CB78 CB79	5+089.98 5+096.85	3.93 LT 3.97 LT	S19 S19	OPSD 701.010 B OPSD 701.010 B	77.78 77.53	76.40 S 76.15 S		200mm 200mm	9.88m 9.31m	2.00%
CB79 CB80	5+094.77	4.05 RT	S19 S19	OPSD 701.010 B	77.65	76.13 S		200mm	1.42m	2.00%
CB81	5+109.42	4.00 RT	S19	OPSD 701.010 B	77.24	75.86 S		200mm	1.22m	2.00%
CB82	5+490.93	4.15 LT	S19	OPSD 701.010 B	82.45	81.07 SE		200mm	5.85m	2.00%
CB83	5+493.21	4.00 RT	S19	OPSD 701.010 B	82.53	81.15 NW		200mm	1.84m	2.00%
CB84	5+471.08	4.01 LT	S19	OPSD 701.010 B	81.69	80.31 SE		200mm	5.69m	2.00%
CB85	5+478.21	4.00 RT	S19	OPSD 701.010 B	81.97	80.59 NW		200mm	1.83m	2.00%
CB86	5+438.12	4.00 LT	S19	OPSD 701.010 B	80.43	79.05 SE		200mm	5.70m	2.00%
CB87 CB88	5+463.21 5+421.92	4.00 RT	S19 S19	OPSD 701.010 B OPSD 701.010 B	81.39 79.82	80.01 NW 78.44 S		200mm	1.83m 6.51m	2.00%
CB89	5+448.21	4.01 LT 4.00 RT	S19 S19	OPSD 701.010 B	80.82	79.44 NW		200mm 200mm	1.83m	2.00%
CB90	5+433.21	4.00 RT	S19	OPSD 701.010 B	80.39	79.01 NW		200mm	1.83m	2.00%
CB91	5+404.58	4.04 LT	S19	OPSD 701.010 B	79.20	77.82 S		200mm	6.03m	2.00%
CB92	5+417.26	6.37 RT	S19	OPSD 701.010 B	79.83	78.45 N		200mm	4.08m	2.00%
CB93	5+387.38	4.05 LT	S19	OPSD 701.010 B	78.50	77.12 SW		200mm	6.27m	2.00%
CB94	5+404.66	7.26 RT	S19	OPSD 701.010 B	79.37	77.99 N		200mm	4.43m	2.00%
CB95	5+390.87	5.86 RT	S19	OPSD 701.010 B	78.81	77.43 NE		200mm	3.43m	2.00%
CB96	5+377.38	3.98 RT	S19	OPSD 701.010 B	78.25	76.87 NE		200mm	1.58m	2.00%
CB97 CB98	5+371.38 5+362.21	4.00 LT 4.00 RT	S22/S23 S19	OPSD 701.010 B OPSD 701.010 B	78.02 77.52	76.71 SW 76.23 NE		200mm 200mm	5.69m 1.47m	2.00%
CB99	5+356.38	4.00 KT	S22/S23	OPSD 701.010 B	77.45	76.13 SW		200mm	5.76m	2.00%
CB100	5+271.19	4.81 LT	S19	OPSD 701.010 D	74.64	73.71 S		200mm	6.56m	2.00%
CB101	5+342.70	4.03 LT	S22/S23	OPSD 701.010 B	76.92	75.61 SW		200mm	5.81m	2.00%
CB102	5+332.22	4.00 RT	S19	OPSD 701.010 B	76.37	74.99 NE		200mm	1.51m	2.00%
CB103	5+311.39	4.02 LT	S22/S23	OPSD 701.010 C	75.72	74.72 SW		200mm	5.76m	2.00%
CB104	5+317.22	4.00 RT	S19	OPSD 701.010 B	75.79	74.41 NE		200mm	1.64m	2.00%
CB105 CB106	5+296.39	4.03 LT	S22/S23	OPSD 701.010 C OPSD 701.010 B	75.15 75.22	74.15 SW 73.84 NE		200mm	5.73m	2.00%
CB106 CB107	5+302.22 5+256.45	4.00 RT 4.03 LT	S19 S19	OPSD 701.010 B	75.22 74.72	73.84 NE 73.65 S		200mm 200mm	1.67m 6.63m	2.00%
CB107	40+196.93	10.39 RT*	S19 S19	OPSD 701.010 D	69.42	68.49 E		200mm	4.96m	1.00%
CB109	40+159	11.14 RT*	S19	OPSD 701.010 D	69.42	68.49 E		200mm	5.74m	1.00%
CB110	40+110.23	15.47 RT [*]	S19	OPSD 701.010 D	69.58	68.55 SE		200mm	9.28m	1.00%
CB111	40+092.25	7.61 RT	S19	OPSD 701.010 D	69.58	68.65 SE		200mm	1.43m	1.00%
CB113	6+192.75	4.61 LT*	S19	OPSD 701.010 B	71.70	70.32 E		200mm	6.43m	2.00%
CB114	6+224.63	5.53 LT [*]	S19	OPSD 701.010 B	74.83	73.45 E		200mm	6.56m	2.00%
CB115			S19	OPSD 701.010	74.29	72.36 NE		375mm	20.08m	1.00%
CB116	6.1207.26	 0 24 L T*	S19	OPSD 701.010	76.90	75.52 NW		300mm	17.39m	2.00%
CB117 CB118	6+287.26	8.21 LT [*]	S19	OPSD 701.010 B OPSD 701.010	73.63 76.90	72.25 E 75.52 SW		200mm 300mm	9.20m 16.50m	2.00%
CB118 CB119	5+203.21	4.04 LT	S19 S19	OPSD 701.010 OPSD 701.010 B	76.90 74.98	75.52 SW 73.60 S		200mm	16.50m 6.79m	2.00%
CB119 CB120	5+203.21	4.04 LT 4.03 LT	S19 S19	OPSD 701.010 B	74.98	73.50 S		200mm	6.79m	2.00%
CB121	5+185.89	4.01 LT	S19	OPSD 701.010 B	75.13	73.75 S		200mm	6.63m	2.00%
CB122	5+180.48	15.31 LT	S19	OPSD 701.010 B	75.24	73.86 S		200mm	17.93m	2.00%
CB123	5+152.66	4.00 LT	S19	OPSD 701.010	76.16	74.40 S		200mm	6.72m	2.00%
CB124	5+152.72			OPSD 701.010 B	76.10	74.40 N		200mm	11.31m	2.00%
CB124 CB127	5+152.72 20+175.03	15.31 LT 11.94 RT	S19 S19	OPSD 701.010 B	69.36	74.63 S 67.98 N		200mm 200mm	4.12m	2.00%
CB127 CB128	20+175.03	11.73 RT*	S19 S19	OPSD 701.010 B	69.49	67.98 N 68.11 NE		200mm	3.88m	2.00%
CB129	5+041.70	6.80 RT	S19	OPSD 701.010 B	79.50	78.12 NE		200mm	3.89m	2.00%
DICB4	3+116.38	5.37 LT*	S19	OPSD 701.030	81.63	80.23 NW	ICD 110	300mm	16.20m	2.00%
		2.57 LT*				80.29 SE				
DICB5 DICB6	7+324.88	2.57 LT	S19 S19	OPSD 701.030 OPSD 701.030	70.17 76.09	69.07 S 74.71 E		200mm 200mm	3.34m 15.57m	2.00%
			318	701.030	, 0.09	/ +./ I E		ZUUIIIII	10.07111	2.00%
DICB8	40+038.51	13.98 LT*	S19	OPSD 705.030	69.04	68.11 N	ICD 111	250mm	6.19m	0.50%

- OFFSETS ARE FROM CONTROL LINE TO FACE OF CURB FOR ALL CATCH BASINS - OFFSETS DISTANCE MARKED WITH AN (*) ARE TO THE CENTER OF THE BASE

- ALL S19 T/FRAME ELEVATION REFER TO ASPHALT ELEVATION AT ENTRY POINT OF THE CATCH BASINS - ALL S22/S23 T/FRAME ELEVATION REFER TO TOP OF CURB ELEVATION AT ENTRY POINT OF THE CATCH BASINS



THESE DRAWINGS ARE FOR INFORMATION **PURPOSES ONLY AND ARE NOT INTENDED** TO BE USED AS A BASIS FOR CONSTRUCTION. ANY USE OR MODIFICATION OF THESE DRAWINGS IS ENTIRELY AT THE **USER'S OWN RISK. PLEASE REFER TO THE** CONSTRUCTION-ISSUE DRAWINGS BEARING A PROFESSIONAL ENGINEER'S STAMP FOR **DEFINITIVE INFORMATION.**



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THE OTTAWA HOSPITAL - CIVIC CAMPUS REDEVELOPMENT



Landscape Architect Structural Engineer Mechanical Engineer Plumbing Engineer Interior Designer **Equipment Planner** Wayfinding Sheet Reviewer

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STAGE 3: HOSPITAL

SERVICING TABLES

C119

Project Status STAGE 3