

THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE



INDEX

| DRAWING | DESCRIPTION |
|---------------|---|
| 422426-TP-1 | TITLE PAGE |
| 422426-IN-1 | INDEX SHEET |
| 422426-CSP-1 | CONSTRUCTION STAGING KEY PLAN SHEET 1 OF 2 |
| 422426-CSP-2 | CONSTRUCTION STAGING KEY PLAN SHEET 2 OF 2 |
| 422426-ESC-1 | EROSION & SEDIMENT CONTROL PLAN - STAGE 1 |
| 422426-ESC-2 | EROSION & SEDIMENT CONTROL PLAN - STAGE 2 |
| 422426-ESC-3 | EROSION & SEDIMENT CONTROL PLAN - STAGE 3 |
| 422426-ESC-4 | EROSION & SEDIMENT CONTROL PLAN NOTES & DETAILS |
| 422426-STM-1 | STORM SEWER CATCHMENT PLAN |
| 422426-STM-2 | STORM SEWER DESIGN SHEET |
| 422426-SAN-1 | SANITARY SEWER CATCHMENT PLAN |
| 422426-SAN-2 | SANITARY SEWER DESIGN SHEET |
| 422426-MSP-1 | MASTER SERVICING PLAN |
| 422426-SS-1 | SITE SERVICING PLAN - STAGE 1 |
| 422426-SS-2.1 | SITE SERVICING PLAN - STAGE 2 - SHEET 1 OF 2 |
| 422426-SS-2.2 | SITE SERVICING PLAN - STAGE 2 - SHEET 2 OF 2 |
| 422426-SS-3 | SITE SERVICING PLAN - STAGE 3 |
| 422426-SS-4 | SITE SERVICING PLAN - STAGE 4 |
| 422426-LID-1 | LOW IMPACT DEVELOPMENT CATCHMENT PLAN |
| 422426-LID-2 | LOW IMPACT DEVELOPMENT FACILITY CROSS SECTIONS |
| 422426-LID-3 | LOW IMPACT DEVELOPMENT FACILITY SHOP DRAWINGS |
| 422426-MGP-1 | MASTER GRADING PLAN |
| 422426-GP-1 | SITE GRADING PLAN - STAGE 1 |
| 422426-GP-2.1 | SITE GRADING PLAN - STAGE 2 - SHEET 1 OF 2 |
| 422426-GP-2.2 | SITE GRADING PLAN - STAGE 2 - SHEET 2 OF 2 |
| 422426-GP-3 | SITE GRADING PLAN - STAGE 3 |
| 422426-GP-4 | SITE GRADING PLAN - STAGE 4 |
| 422426-UT-1 | COMPOSITE UTILITY PLAN |
| 422426-DE-1 | DETAILS & NOTES |
| 422426-DE-2 | CITY OF BARRIE STANDARD DETAIL DRAWINGS |

LEGEND

| ITEM | EXISTING | PROPOSED |
|---------------------------------------|--------------------|--------------------|
| PROPERTY LINE | ---- | ---- |
| LOT LINE | ---- | ---- |
| CENTERLINE | ---- | ---- |
| EDGE OF ASPHALT | ---- | ---- |
| CONCRETE CURB | ---- | ---- |
| EDGE OF GRAVEL SHOULDER | ---- | ---- |
| DITCH/DIRECTION OF FLOW | -----> | -----> |
| DRAINAGE SWALE/DIRECTION OF FLOW | -----> | -----> |
| WATERMAIN/SIZE | ----- 150# W/M | ----- 150# W/M |
| WATER SERVICE | ---- | ---- |
| FIRE HYDRANT | ◇ HYD | ◆ HYD |
| EXISTING WATER VALVE | ⋈ WV | ⋈ WV |
| CURB STOP VALVE | ⋈ CSV | ⋈ CSV |
| WATERMAIN PLUG AND THRUST BLOCK | □ | □ |
| WATERMAIN BLOWOFF | ⊙ BLOWOFF | ⊙ BLOWOFF |
| WATERMAIN REDUCER | ▱ | ▱ |
| SANITARY SEWER/SIZE/DIRECTION OF FLOW | -----> 200# SAN | -----> 200# SAN |
| SANITARY MAINTENANCE HOLE | ○ SAN MH | ● SAN MH4 |
| SANITARY SERVICE | ---- | ---- |
| SANITARY FORCEMAIN | -----> | -----> |
| STORM SEWER/SIZE/DIRECTION OF FLOW | -----> 375# STM | -----> 375# STM |
| STORM MAINTENANCE HOLE | ○ STM MH | ● STM MH4 |
| CATCH BASIN | □ CB | ■ CB4 |
| DOUBLE CATCH BASIN | ▢ DCB | ▢ DCB4 |
| CATCH BASIN MAINTENANCE HOLE | ⊙ CBMH | ⊙ CBMH4 |
| DOUBLE CATCH BASIN MAINTENANCE HOLE | ⊙ DCBMH | ⊙ DCBMH4 |
| DITCH INLET CATCH BASIN | □ DICB | ■ DICB4 |
| CULVERT | ▢-----▢ | ▢-----▢ |
| BELL UNDERGROUND | -----BU | -----BU |
| BELL AERIAL | -----BA | -----BA |
| CABLE UNDERGROUND | -----CU | -----CU |
| CABLE AERIAL | -----CA | -----CA |
| HYDRO UNDERGROUND | -----HU | -----HU |
| HYDRO AERIAL | -----HA | -----HA |
| GAS MAIN/SERVICE | -----GAS | -----GAS |
| FENCE | — X — X — | — X — X — |
| GUIDERAIL | +++++ | +++++ |
| BUSHLINE/TREELINE | ~~~~~ | ~~~~~ |
| CONTOUR | ----- 179.00 | ----- 179.00 |
| SPOT ELEVATION | X 179.00 | X 179.00 |
| GRADING DIRECTION/GRADE PERCENTAGE | ----- 1.9% | ----- 1.9% |
| DRAINAGE FLOW | ← | ← |
| TRAFFIC SIGN | ▮ SIGN | ▮ SIGN |
| TRAFFIC POLE/TRAFFIC SIGNAL | ○ T/S | ● P1 |
| LIGHT STANDARD | ○ L/S | ⊠ |
| BOLLARD LIGHT | ○ | ● HP |
| HYDRO POLE | ○ HP | ● HP |
| GUY WIRE | — | — |
| BELL POLE | ○ BP | |
| BELL MAINTENANCE HOLE | ○ BELL MH | |
| BELL PEDESTAL/VAULT | ⊠ | |
| CABLE PEDESTAL/VAULT | ⊠ | |
| HYDRO TRANSFORMER/VAULT | ⊠ | |
| GAS VALVE | ⋈ GAS VALVE | |
| GAS MARKER | ⊕ GAS | |
| MAILBOX | ⊠ | |
| STANDARD IRON BAR | ◆ IB | |
| IRON BAR | ◆ IB | |
| TEMPORARY BENCHMARK | ⊙ TBM#1 | |
| BOREHOLE/MONITORING WELL | ⊕ BH/MW1 | |
| DECIDUOUS/CONIFEROUS TREE, SHRUB/BUSH | ⊙ | ⊙ |

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET; TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

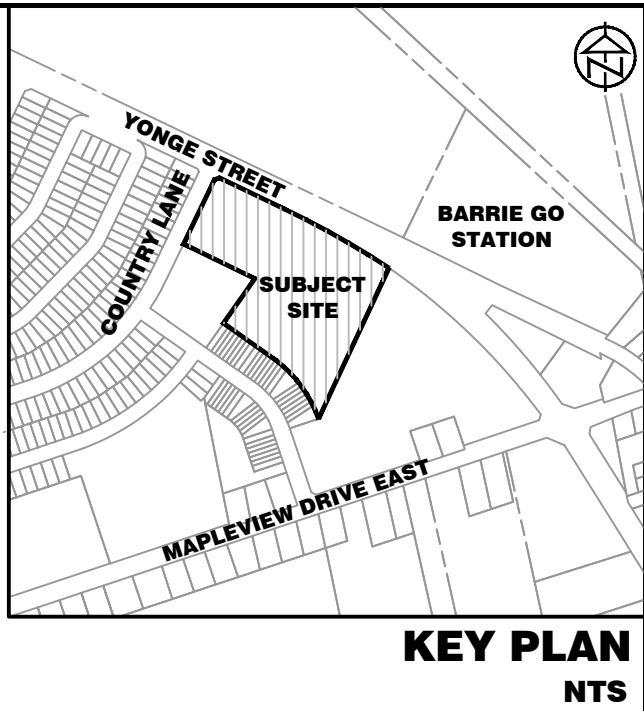
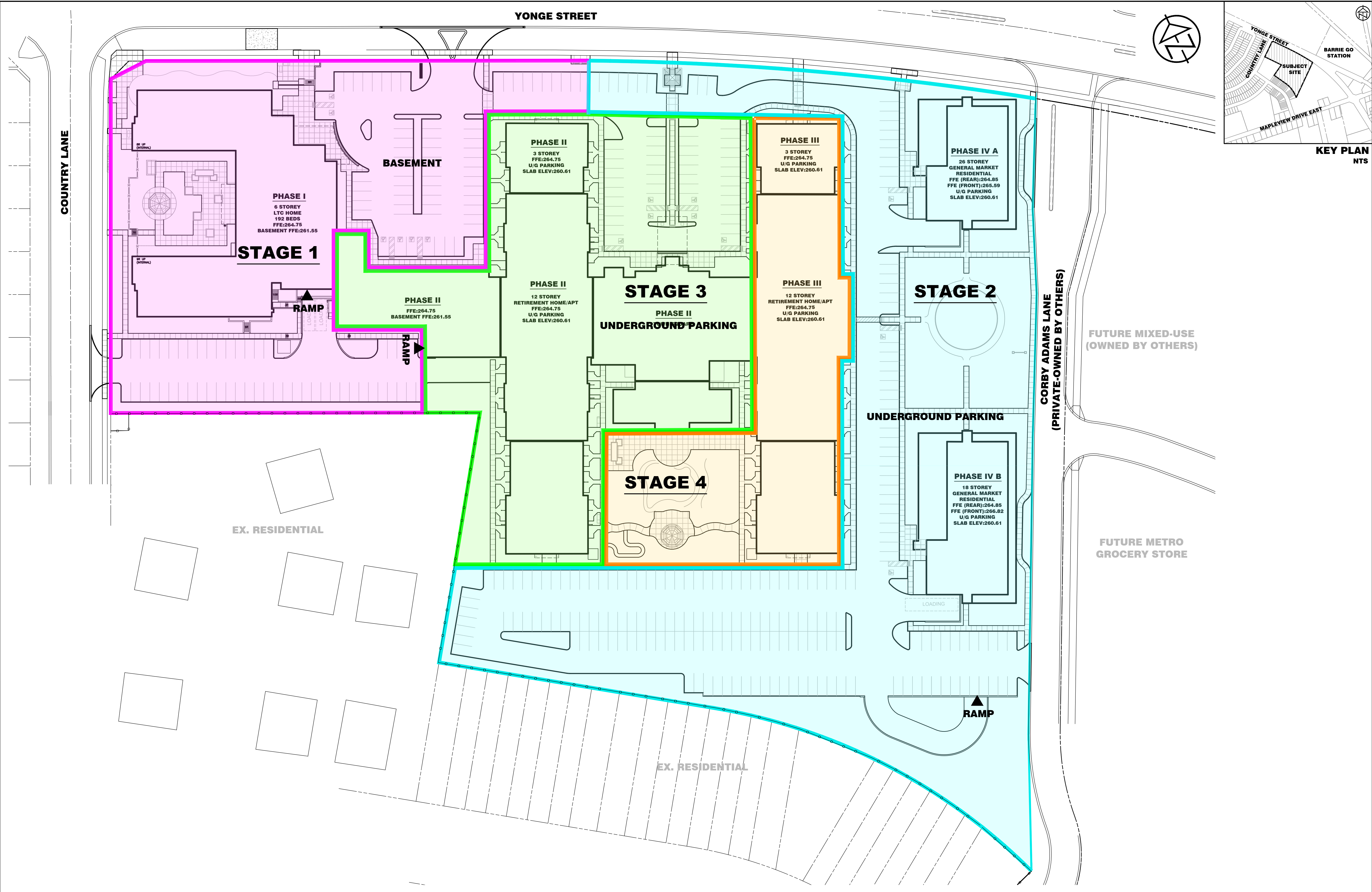




**THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE**

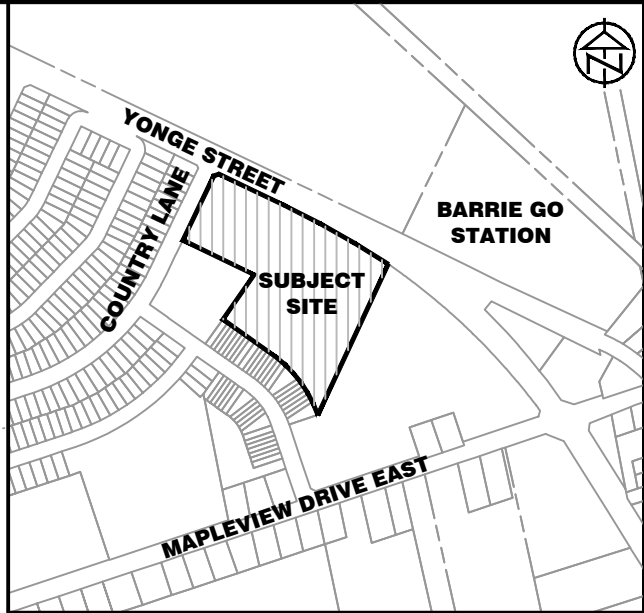
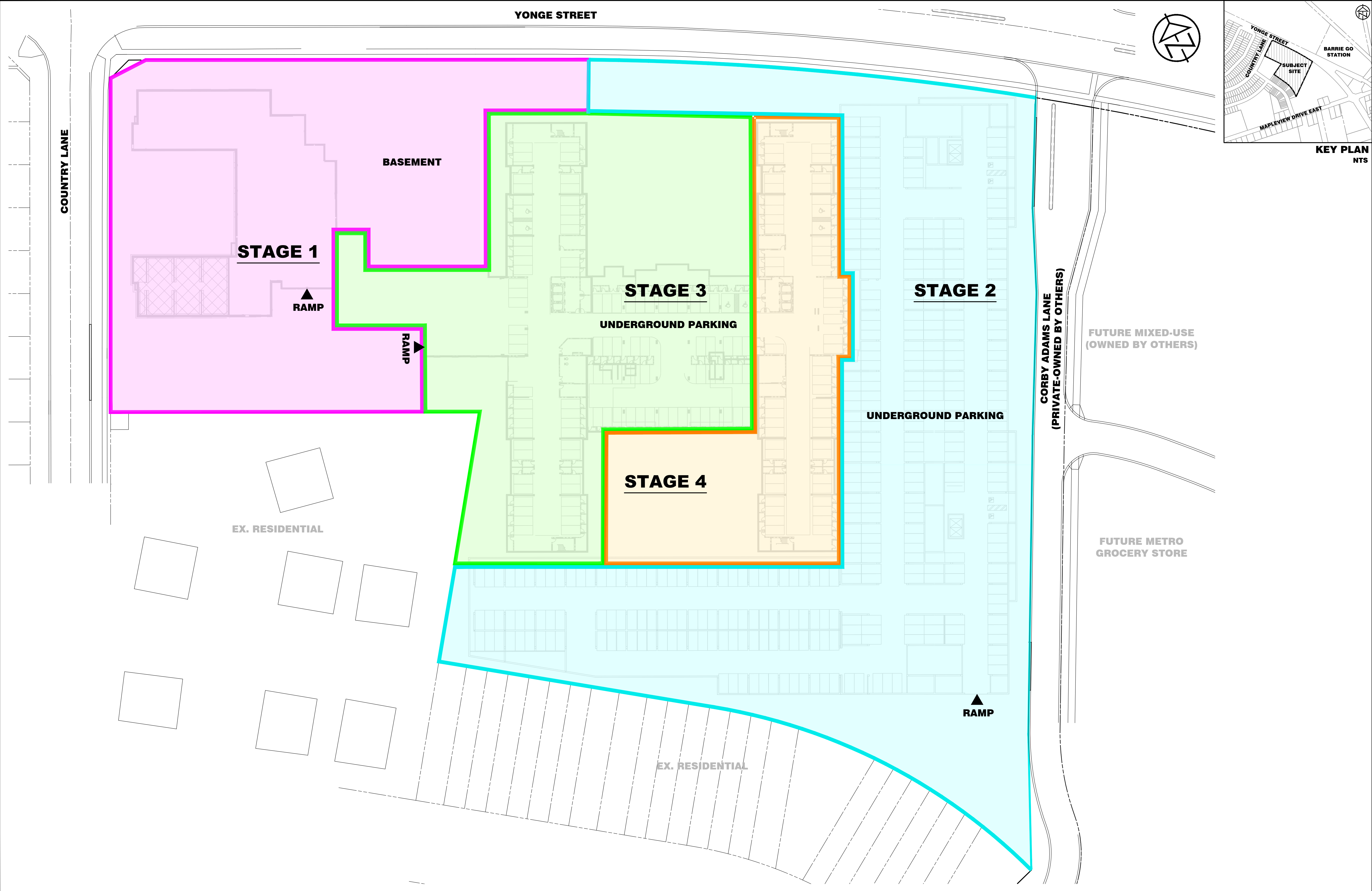
INDEX



| | | |
|---------------|------------------|-------------|
| DESIGN: LC | FILE: 422426 | DWG: |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | IN-1 |
| CHECK: BFS/NM | SCALE: - | |



| | | | | | | | | | | | |
|--|--|--|-----|--|------------|---|---|--|---------------|------------------|--------------|
| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | No. | REVISION DESCRIPTION | DATE | ENGINEER STAMP | <div>THE VILLAGE OF INNS LANDING 800 YONGE STREET CITY OF BARRIE</div> <div>CONSTRUCTION STAGING KEY PLAN SHEET 1 OF 2</div> | <div></div> | DESIGN: LC | FILE: 422426 | DWG: |
| | | | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |  | | | DRAWN: LQ/JLM | DATE: APRIL 2024 | CSP-1 |
| | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | CHECK: BFS/NM | SCALE: 1:500 | |
| | | | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | |
| | | | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | |
| | | | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | |



KEY PLAN
NTS

DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

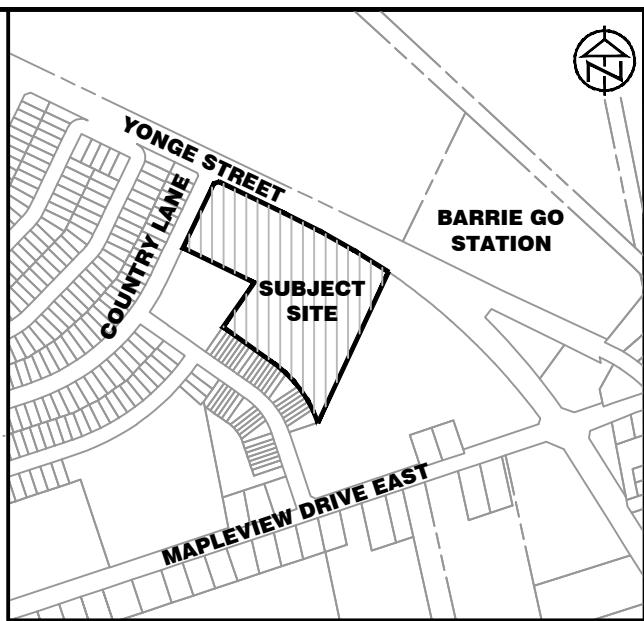
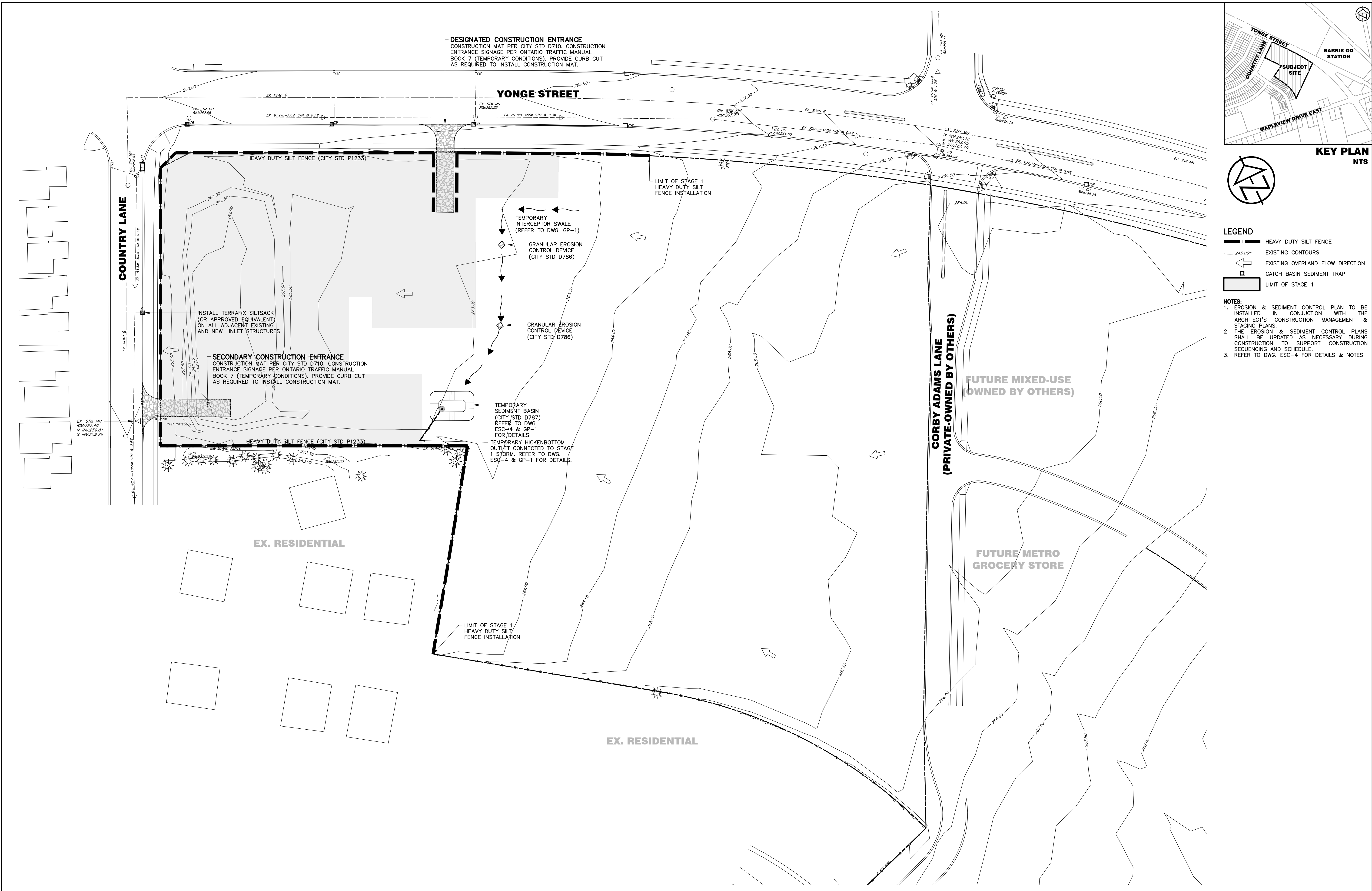


THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

CONSTRUCTION STAGING KEY PLAN
BASEMENT/UNDERGROUND PARKING
SHEET 2 OF 2



| | | |
|---------------|------------------|----------------------|
| DESIGN: LC | FILE: 422426 | DWG: CSP-2 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:500 | |



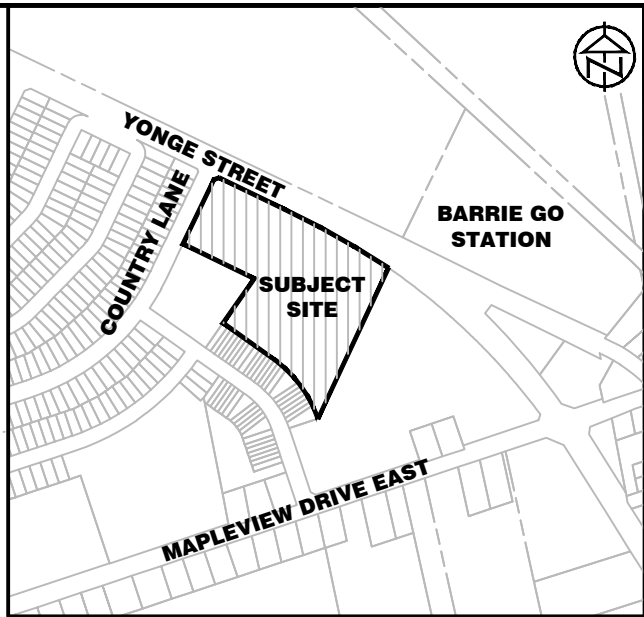
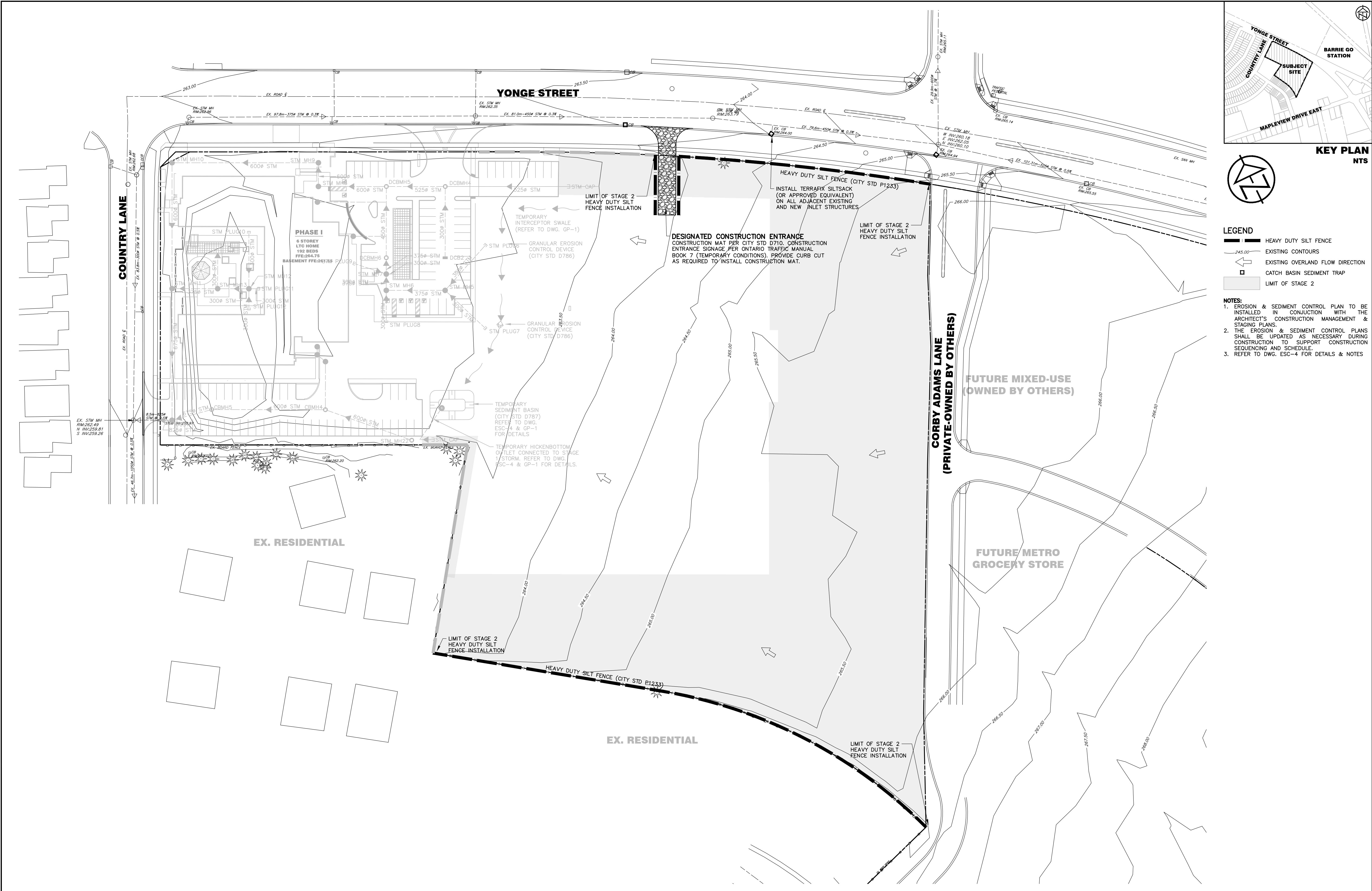
KEY PLAN
NTS

LEGEND

- HEAVY DUTY SILT FENCE
- EXISTING CONTOURS
- EXISTING OVERLAND FLOW DIRECTION
- CATCH BASIN SEDIMENT TRAP
- LIMIT OF STAGE 1

- NOTES:**
1. EROSION & SEDIMENT CONTROL PLAN TO BE INSTALLED IN CONJUNCTION WITH THE ARCHITECT'S CONSTRUCTION MANAGEMENT & STAGING PLANS.
 2. THE EROSION & SEDIMENT CONTROL PLANS SHALL BE UPDATED AS NECESSARY DURING CONSTRUCTION TO SUPPORT CONSTRUCTION SEQUENCING AND SCHEDULE.
 3. REFER TO DWG. ESC-4 FOR DETAILS & NOTES

| | | | | | | | | | | | | | |
|--|--|--|------------|--|-------------|-----------------------|--|---|--|--|-------------------|---------------------|---------------------------------|
| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | BENCHMARK TBM#1 ELEV. 263.48 m MNP No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | No. | REVISION DESCRIPTION | DATE | ENGINEER STAMP | | THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | | EROSION & SEDIMENT CONTROL PLAN STAGE 1 | DESIGN: LC | FILE: 422426 | DWG: ESC-1 |
| | | | 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | | | | | | | | |
| | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | |
| | | | 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | |
| | | | 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | | | | | | | | |
| 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | |

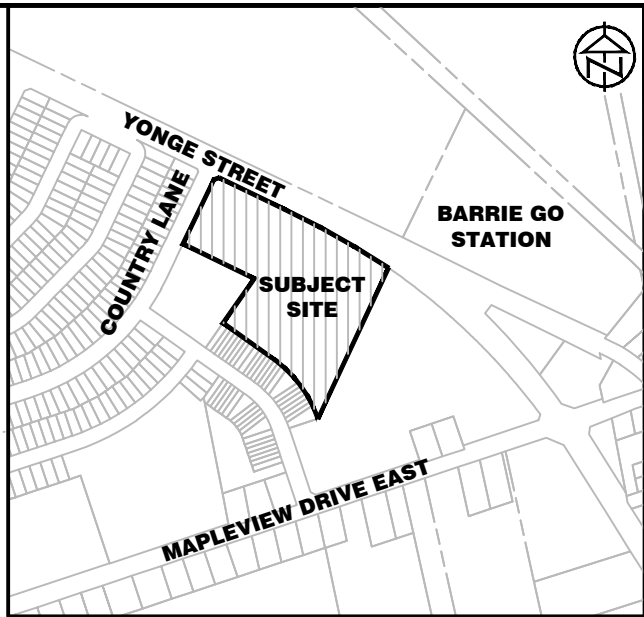
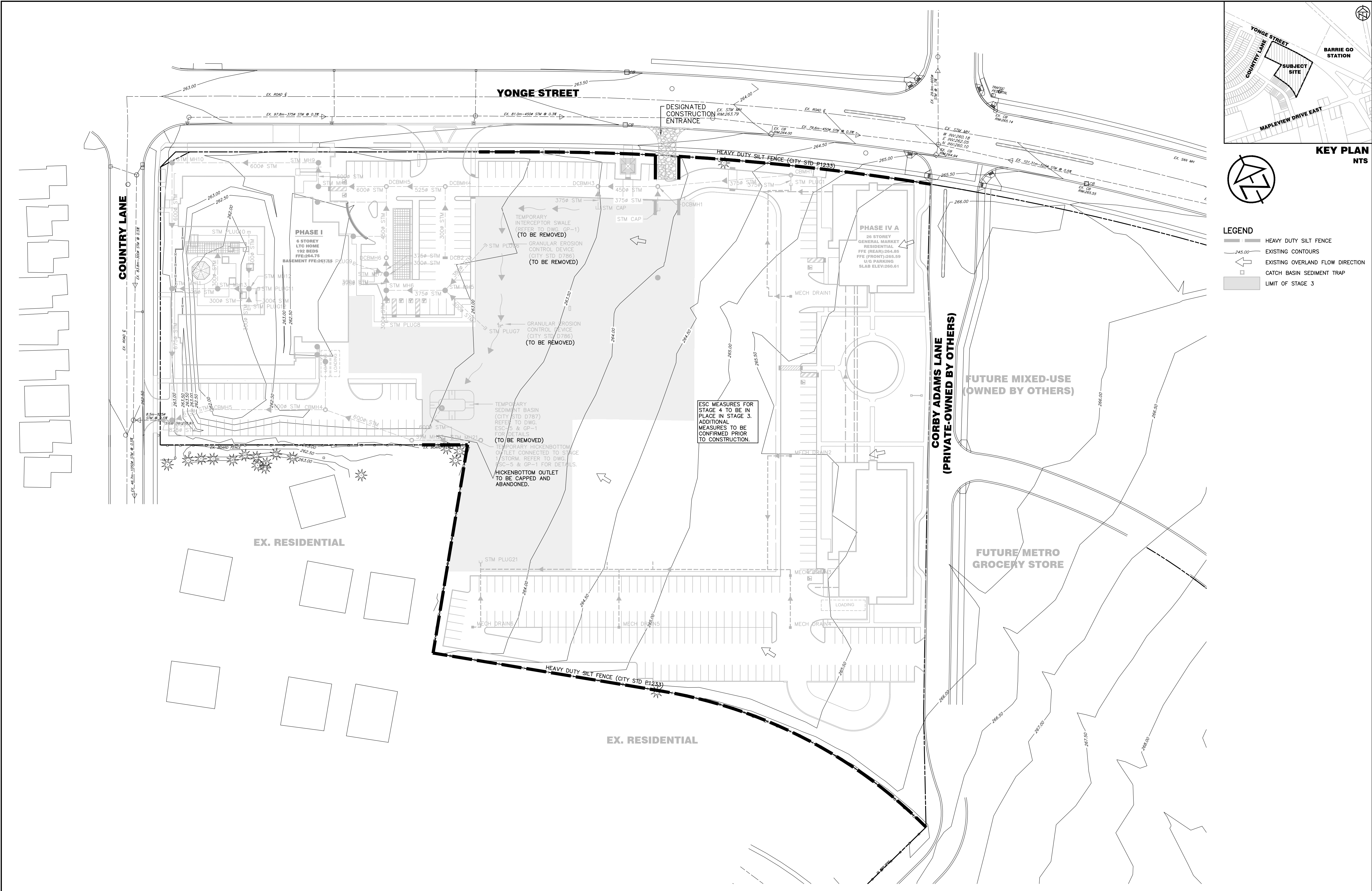


KEY PLAN
NTS

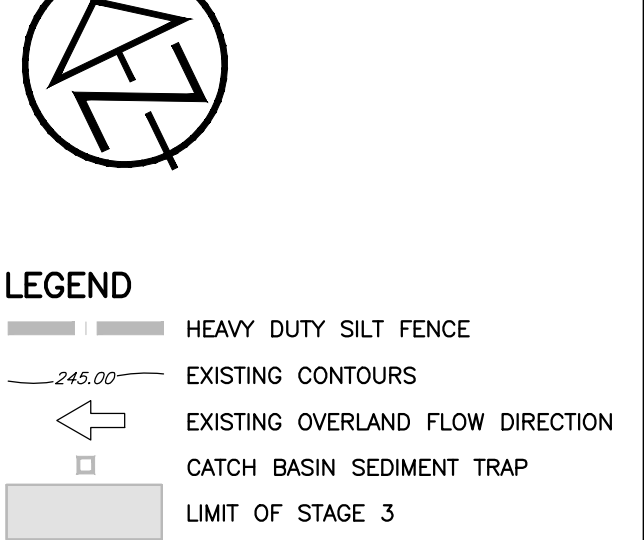


- LEGEND
- HEAVY DUTY SILT FENCE
 - EXISTING CONTOURS
 - EXISTING OVERLAND FLOW DIRECTION
 - CATCH BASIN SEDIMENT TRAP
 - LIMIT OF STAGE 2
- NOTES:
- EROSION & SEDIMENT CONTROL PLAN TO BE INSTALLED IN CONJUNCTION WITH THE ARCHITECT'S CONSTRUCTION MANAGEMENT & STAGING PLANS.
 - THE EROSION & SEDIMENT CONTROL PLANS SHALL BE UPDATED AS NECESSARY DURING CONSTRUCTION TO SUPPORT CONSTRUCTION SEQUENCING AND SCHEDULE.
 - REFER TO DWG. ESC-4 FOR DETAILS & NOTES

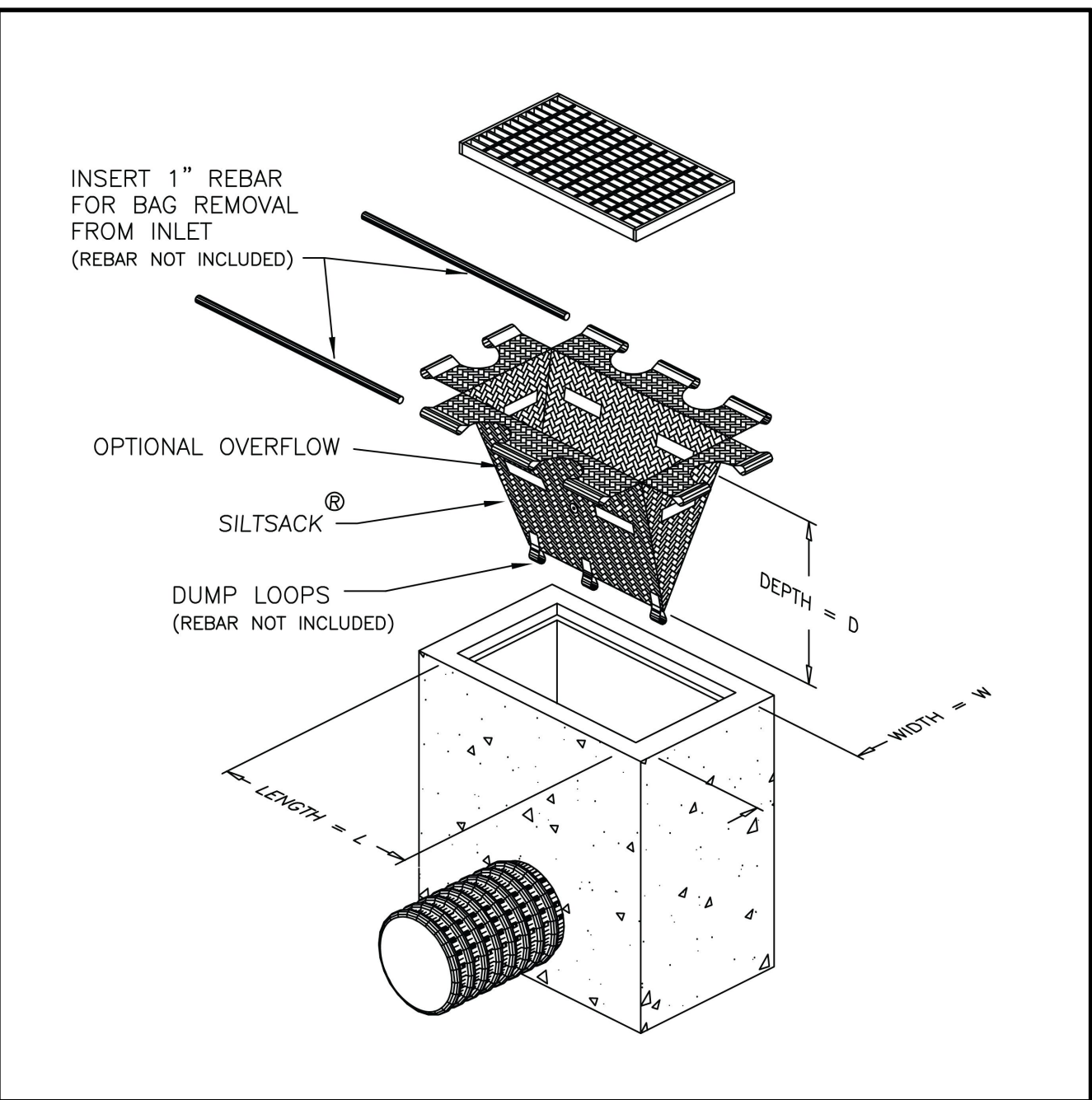
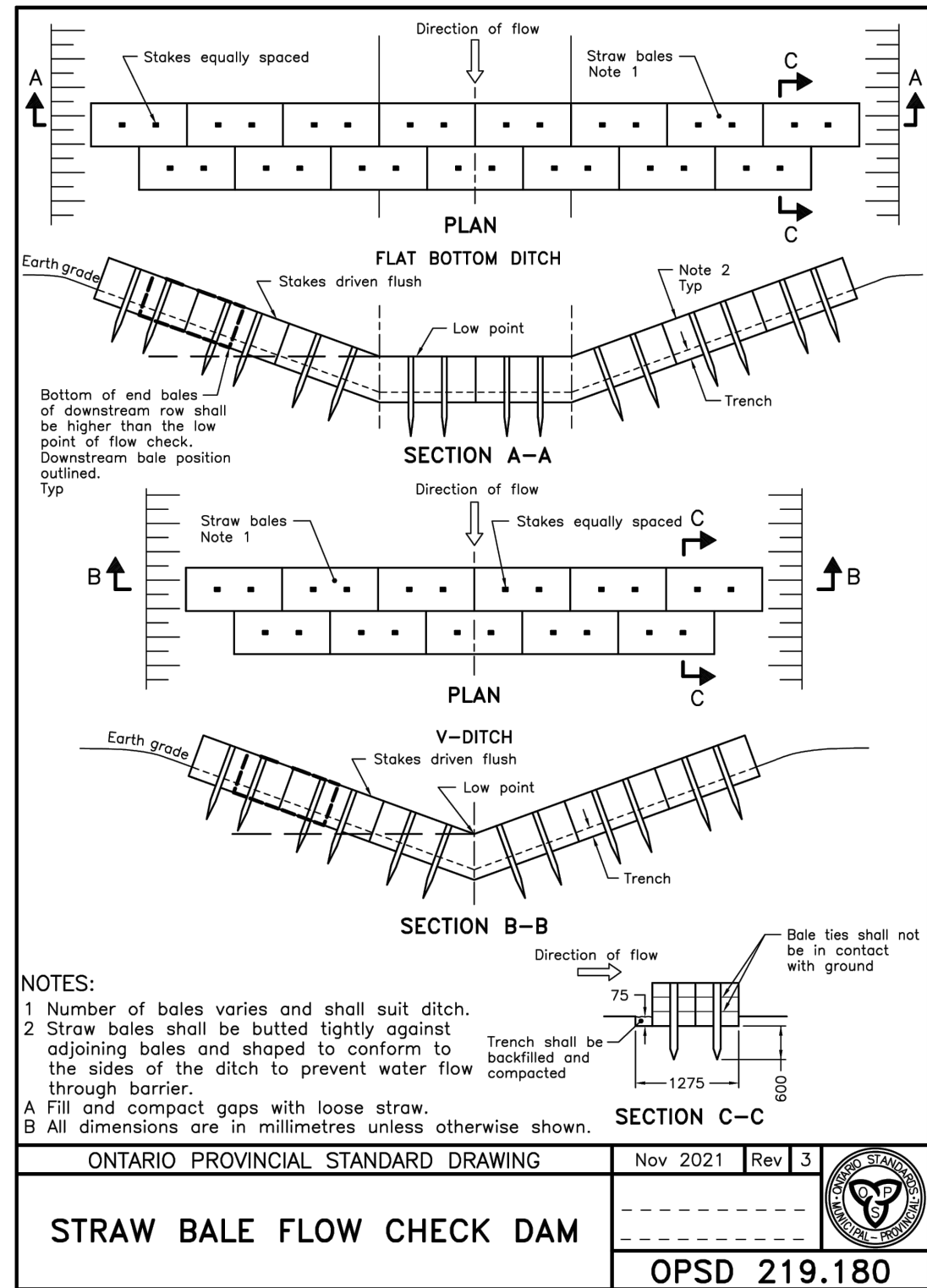
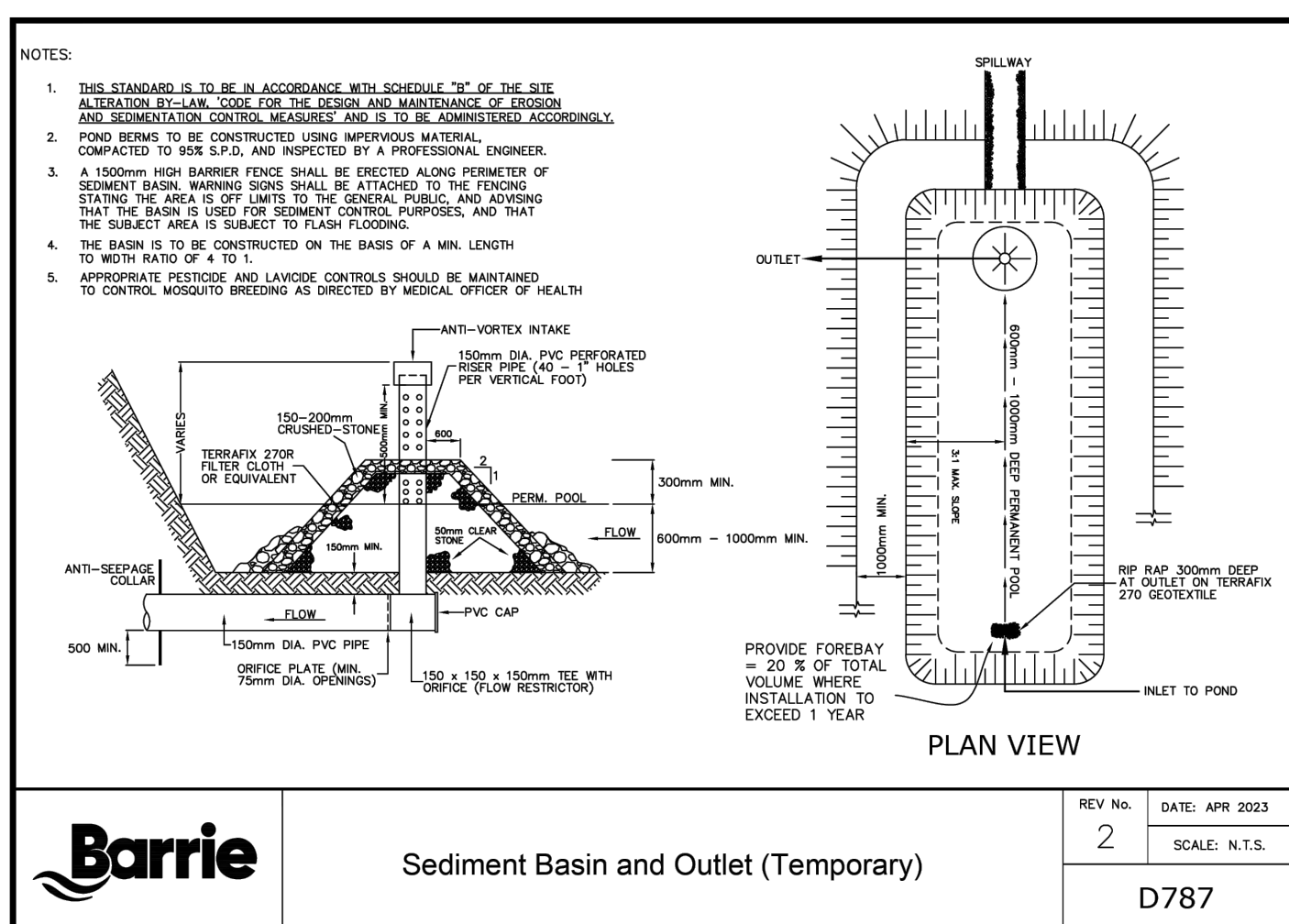
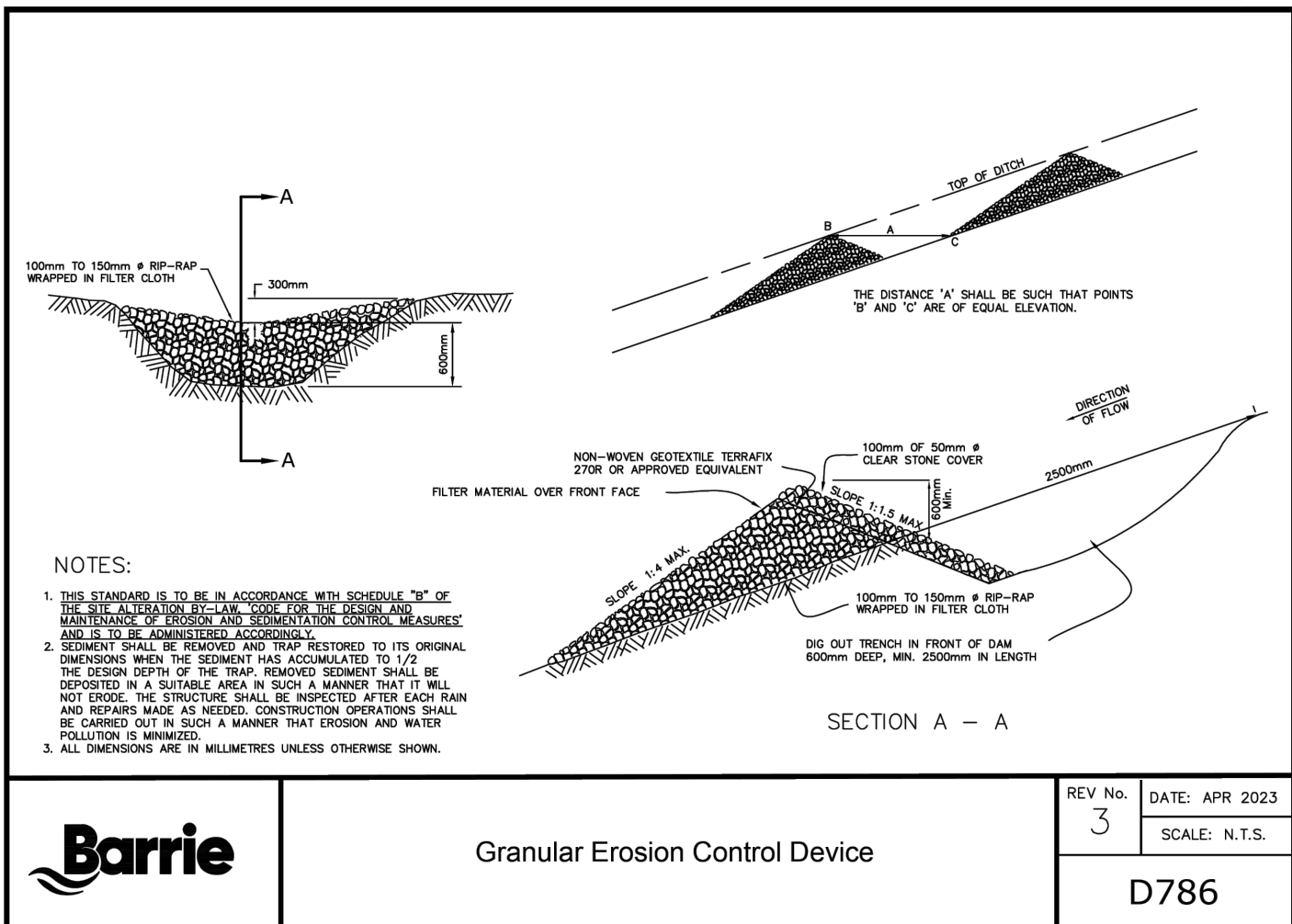
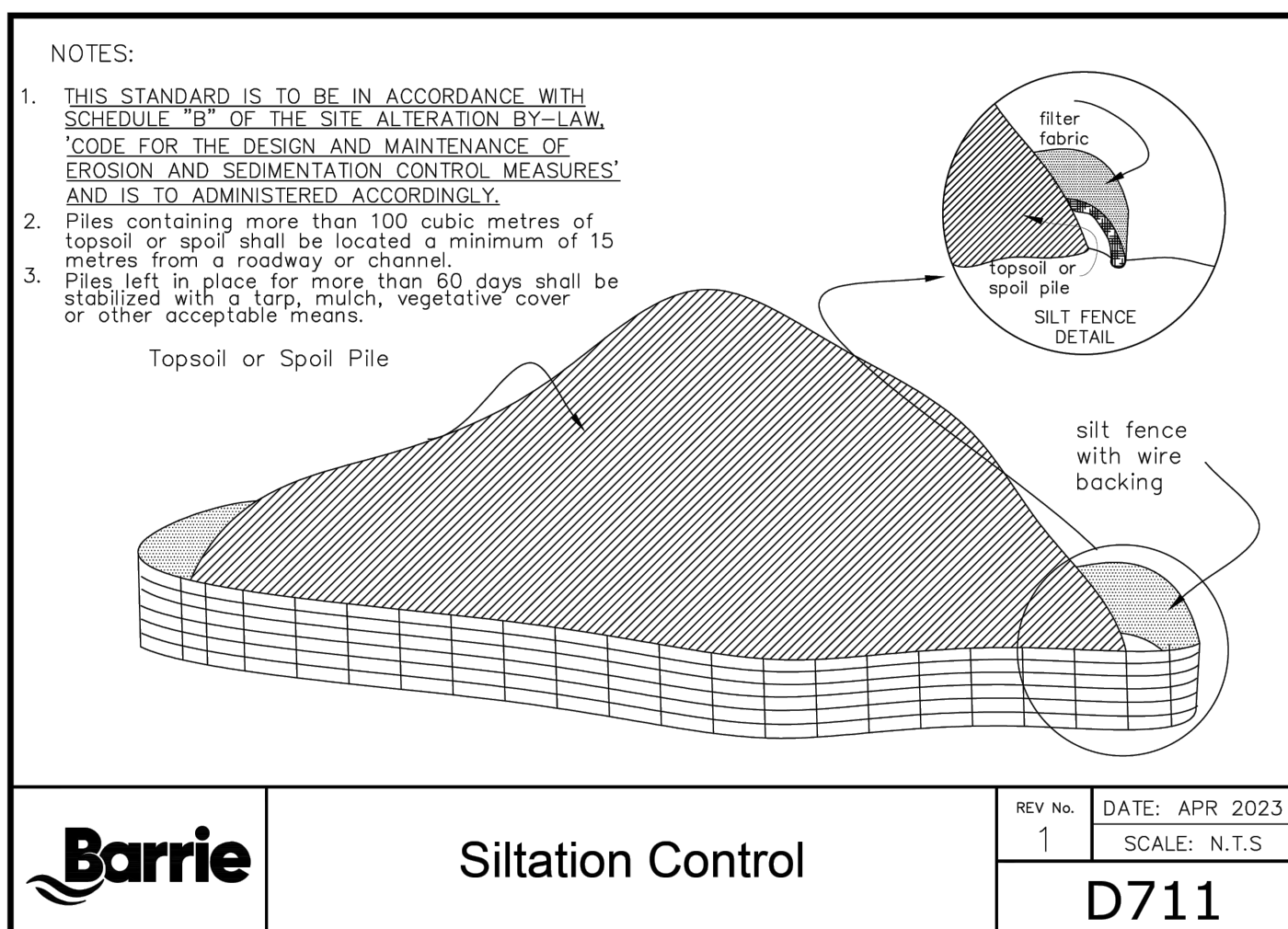
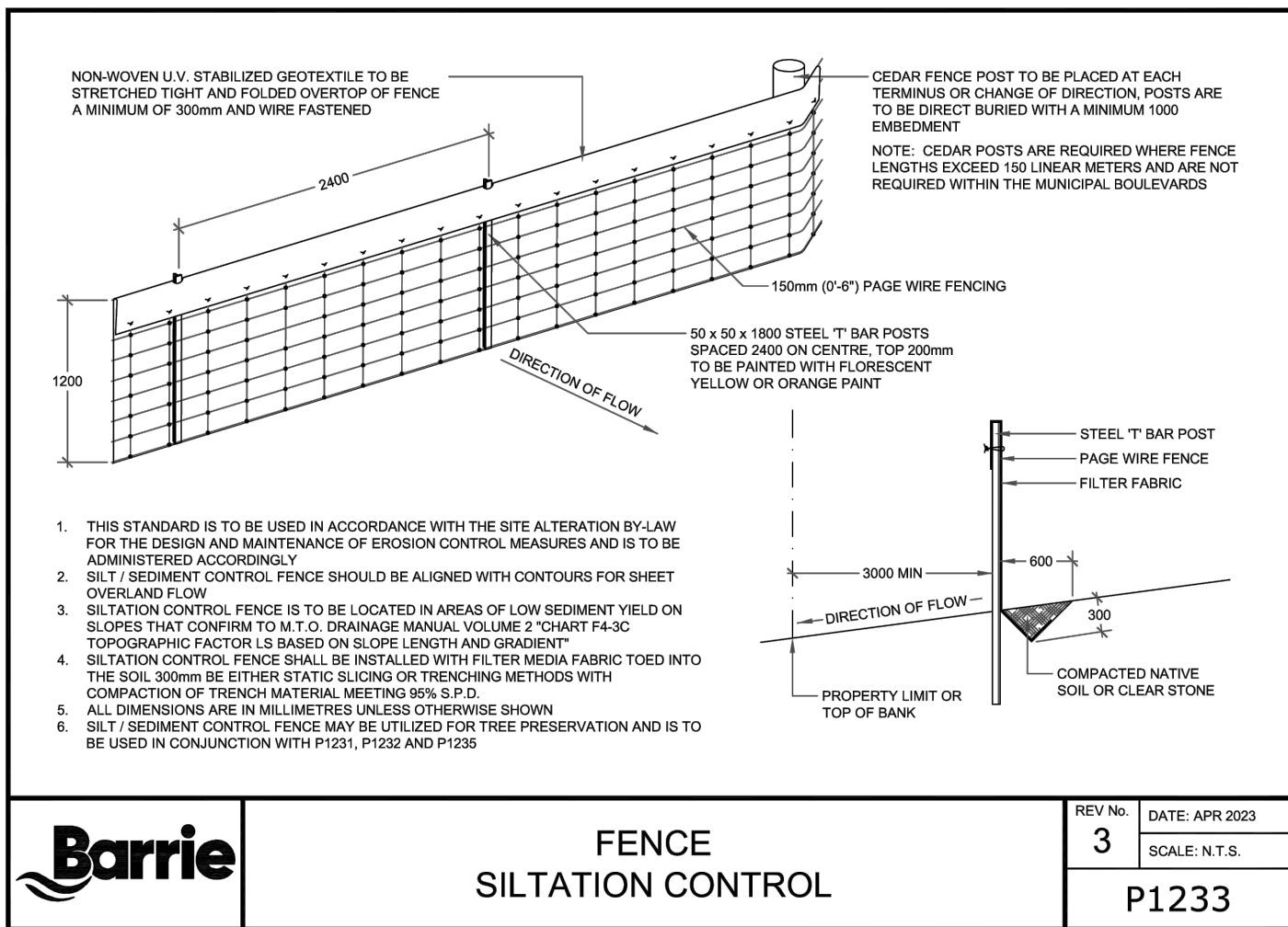
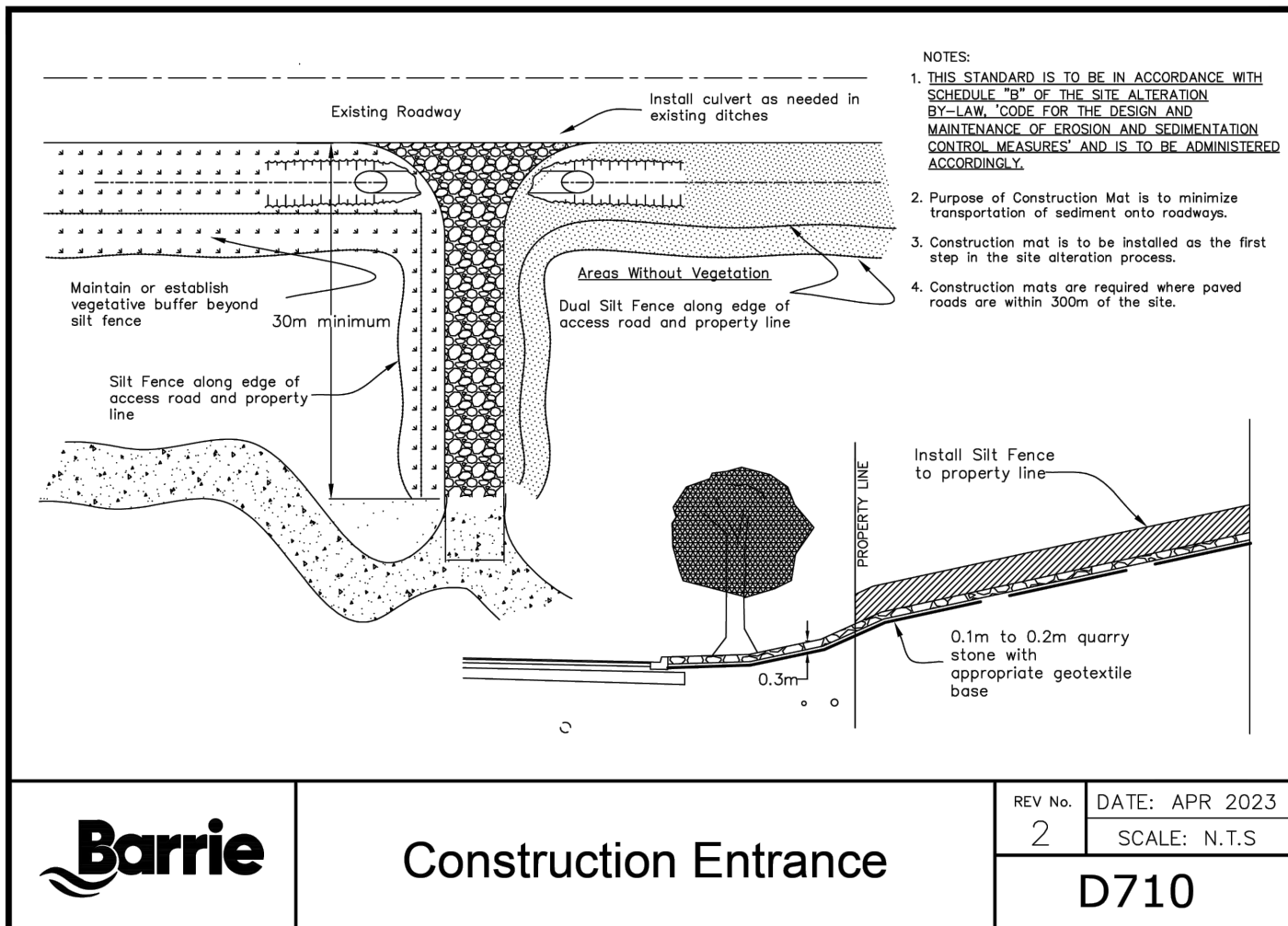
| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | | <table><thead><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr></thead><tbody><tr><td>1.</td><td>SITE PLAN APPROVAL - FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL - SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL - THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL - FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></tbody></table> | | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | ENGINEER STAMP | | THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | | | |
|--|--|--|--|--|--|---|--|-----|----------------------|---------------|----|---------------------------------------|------------|-----------------------------|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---------------------------|--|---|--|--|--|
| No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| EROSION & SEDIMENT CONTROL PLAN STAGE 2 | | | | | | | | | | DESIGN: LC | | FILE: 422426 | | DWG: ESC-2 | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | DRAWN: LQ/JLM | | DATE: APRIL 2024 | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | CHECK: BFS/NM | | SCALE: 1:600 | | | | | | | | | | | | | | | | | | | |



KEY PLAN
NTS



| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 0011931U460S – SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | | <table><thead><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr></thead><tbody><tr><td>1.</td><td>SITE PLAN APPROVAL – FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL – SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL – THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL – FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></tbody></table> | | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | ENGINEER STAMP | | THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | | | | EROSION & SEDIMENT CONTROL PLAN STAGE 3 | | DESIGN: LC DRAWN: LQ/JLM CHECK: BFS/NM | FILE: 422426 DATE: APRIL 2024 SCALE: 1:600 | DWG: ESC-3 |
|--|--|--|--|---|--|---|--|-----|----------------------|------|----|---------------------------------------|------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---------------------------|--|---|--|--|--|--|--|--|--|----------------------|
| No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



EROSION & SEDIMENT CONTROL

- ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSTALLED PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED. EROSION AND SEDIMENT CONTROL MEASURES THAT ARE DESIGNED TO CONTROL RUNOFF FROM SPECIFIC AREAS MUST BE INSTALLED PRIOR TO ANY DISTURBANCE OF THAT PART OF THE SITE. THE LOCATION OF ALL EROSION AND SEDIMENT CONTROL WORKS TO BE REVIEWED ON SITE AND MAY BE REVISED AS DIRECTED BY THE CONTRACT ADMINISTRATOR.
- THE CONTRACTOR MAY CONSIDER ALTERNATIVE EROSION AND SEDIMENT CONTROL MEASURES, SUCH MEASURES MUST BE PRESENTED IN WRITING TO THE CONTRACT ADMINISTRATOR FOR APPROVAL BY THE CITY OF BARRIE.
- THE CONTRACTOR SHALL HAVE MATERIALS AVAILABLE ON-SITE TO REPAIR SEDIMENT AND EROSION CONTROL MEASURES IN THE EVENT OF UNFORESEEN CONDITIONS: HIGH WATER, EXTREME RAINFALL EVENTS, ETC.
- ALL EROSION AND SEDIMENT CONTROL MEASURES MUST BE INSPECTED, CLEANED AND REPAIRED BY THE CONTRACTOR AFTER EACH STORM EVENT AS NECESSARY TO PREVENT ANY OFF-SITE ENVIRONMENTAL IMPACTS (CITY OF BARRIE SITE ALTERATION BY-LAW 2014-100). ALL WORKS WILL BE INSPECTED BY THE CONTRACT ADMINISTRATOR WEEKLY AND AFTER EACH MAJOR STORM EVENT.
- CONSTRUCTION OF ALL EROSION AND SEDIMENT CONTROL WORKS ARE TO BE IN ACCORDANCE WITH THE FOLLOWING STEPS:
 - INSTALL CONSTRUCTION ENTRANCE MUD MAT IN ACCORDANCE WITH D710.
 - INSTALL SILTATION CONTROL FENCE IN ACCORDANCE WITH P1233.
 - INSTALL TEMPORARY SILTSACKS BY TERRAFIX (OR APPROVED EQUIVALENT) AS SHOWN ON DWG. ESC 1-4 AND AS DIRECTED BY THE CONTRACT ADMINISTRATOR. SILTSACKS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. ALL CATCH BASINS TO REMAIN SCREENED UNTIL BASE COURSE ASPHALT IS PLACED AND THE SITE HAS BEEN STABILIZED.
 - INSTALL TEMPORARY SEDIMENT BASIN(S) IN ACCORDANCE WITH D787.
 - INSTALL TEMPORARY INTERCEPTOR SWALES.
 - INSTALL GRANULAR EROSION CONTROL DEVICES IN ACCORDANCE WITH D786 AND STRAW BALE FLOW CHECK DAMS IN ACCORDANCE WITH OPSD 219.180.
- ALL CONSTRUCTION VEHICLES TO ACCESS SITE USING THE DESIGNATED CONSTRUCTION ENTRANCE.
- EROSION AND SEDIMENT CONTROL MEASURES TO BE REMOVED BY THE CONTRACTOR ONCE GROUND COVER IS ESTABLISHED AND LANDSCAPING IS COMPLETE AND AS APPROVED BY THE CONTRACT ADMINISTRATOR.
- ALL STOCKPILE LOCATIONS ARE TO BE APPROVED BY THE CONTRACT ADMINISTRATOR. STOCKPILES TO BE CONSTRUCTED IN ACCORDANCE WITH D711.
- PROVIDE SNOW FENCE OR APPROVED EQUAL ACROSS ALL CONSTRUCTION ENTRANCES DURING PERIODS OF INACTIVITY.
- CONSTRUCTION AREAS THAT EXCEED 30 DAYS OF INACTIVITY SHALL BE STABILIZED BY SEEDING. THIS SHALL INCLUDE STOCKPILES OF FILL AND TOPSOIL.

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S — SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL — FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL — SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL — THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL — FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

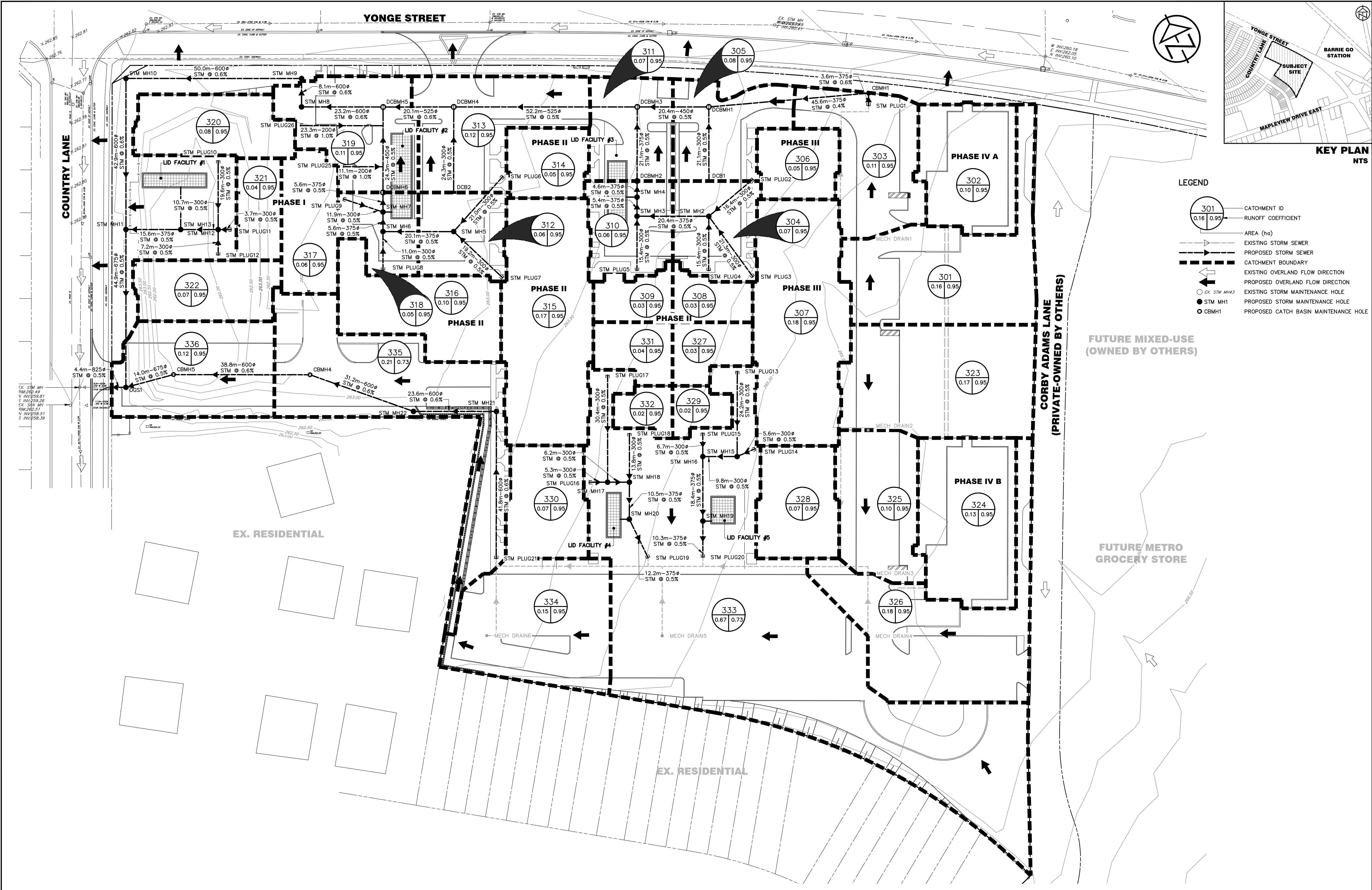


THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

EROSION & SEDIMENT CONTROL
DETAILS & NOTES

TATHAM
ENGINEERING

| | | |
|---------------|------------------|--------------|
| DESIGN: LC | FILE: 422426 | DWG: |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | ESC-4 |
| CHECK: BFS/NM | SCALE: AS NOTED | |



DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP



THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

STORM SEWER
CATCHMENT PLAN



DESIGN: LC
FILE: 422426
DRAWN: LQ/JLM
DATE: APRIL 2024
CHECK: BFS/NM
SCALE: 1:500

DWG:
STM-1



| | |
|--|----------------|
| Project Information | |
| The Village of Innis Landing, 800 Yonge Street | 422426 |
| Drawing Reference | |
| Storm Sewer Catchment Plan (Drawing STM-1) | September 6/24 |
| Prepared By | |
| LC/JAM | September 6/24 |
| Reviewed By | |
| LC/JG | September 6/24 |
| Municipality | |
| City of Barrie | |

| | | |
|-------------------------------|------|------|
| Runoff Coefficient Adjustment | | |
| Equation | A | B |
| Year | A | B |
| 10 | 1.00 | 0.00 |
| 25 | 1.10 | 0.00 |
| 50 | 1.20 | 0.00 |
| 100 | 1.25 | 0.00 |
| Time of Concentration | | |
| 10 mins | | |

| | | |
|------------------------|--------|------|
| IDF Curve Coefficients | | |
| Year | A | B |
| 2 | 0.7559 | 4.68 |
| 5 | 0.8502 | 4.98 |
| 10 | 0.9769 | 4.75 |
| 25 | 1.1332 | 4.73 |
| 50 | 1.2514 | 4.85 |
| 100 | 1.3835 | 4.91 |

| | |
|-----------------------|-------|
| Manning's Coefficient | |
| Material | Value |
| CSP | 0.024 |
| Concrete | 0.013 |
| PVC | 0.013 |

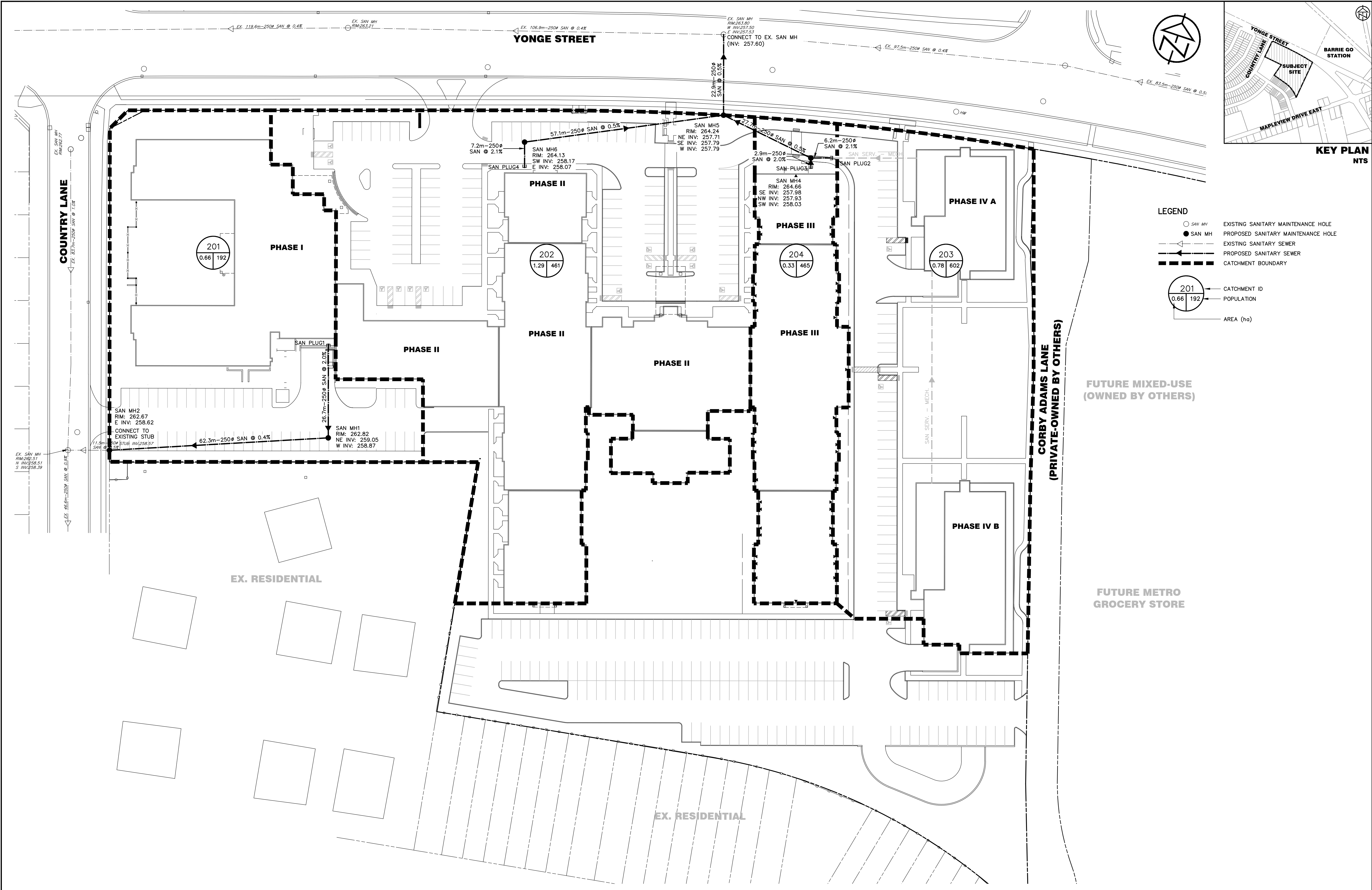
| | |
|-------|--|
| Notes | |
| | |

Storm Sewer Design Sheet

| | |
|-----------------|-------------------|
| Version Date: | September 6, 2024 |
| Version Number: | |

| | |
|----------------|--|
| Engineer Stamp | |
| | |

| Street Name | Area ID / Label | Upstream Manhole ID | Downstream Manhole ID | Area (ha) | 5 Year Runoff Coefficient (C) | Design Storm (Year) | Adjusted Runoff Coefficient (C) | Area x Runoff Coefficient | Cumulative Area x Runoff Coefficient | Time of Concentration (min) | Rainfall Intensity (mm/hr) | Peak Flow (m³/s) | Manning's Coefficient | Sewer Slope (m) | Sewer Slope (%) | Actual Sewer Diameter (mm) | Full Flow Velocity (m/s) | Full Flow Capacity (m³/s) | Actual Velocity (m/s) | Travel Time (min) | Calculated Sewer Diameter (mm) | Percentage of Full Pipe Capacity (%) | Total Time of Travel (min) | |
|--------------------------------|-----------------|---------------------------|-----------------------------|-----------|-------------------------------------|------------------------|---------------------------------------|---------------------------------|---|-----------------------------------|----------------------------------|---------------------|--------------------------|--------------------|--------------------|-------------------------------|-----------------------------|------------------------------|--------------------------|----------------------|-----------------------------------|---|-------------------------------|-------|
| North Sewers TBD by Mech | 301 | DRAIN1 | STM PLUG1 | 0.16 | 0.95 | 5 | 0.95 | 0.15 | 0.16 | 0.15 | 10.00 | 109.11 | 0.046 | 0.013 | 37.5 | 0.5% | 300 | 0.97 | 0.068 | 0.97 | 0.65 | 259 | 67.4% | 10.65 |
| Ph. 4A Roof Leader TBD by Mech | 302 | Ph. 4A Roof | STM PLUG1 | 0.10 | 0.95 | 5 | 0.95 | 0.10 | 0.10 | 0.10 | 10.00 | 109.11 | 0.029 | 0.013 | 11.0 | 0.5% | 300 | 0.97 | 0.068 | 0.86 | 0.21 | 217 | 42.1% | 10.21 |
| North Sewers | - | STM PLUG1 | CBMH1 | - | - | 5 | - | 0.00 | 0.26 | 0.25 | 10.65 | 105.55 | 0.072 | 0.013 | 3.6 | 0.5% | 375 | 1.12 | 0.124 | 1.09 | 0.05 | 306 | 58.4% | 10.70 |
| North Sewers | 303 | CBMH1 | DCBMH1 | 0.11 | 0.95 | 5 | 0.95 | 0.10 | 0.37 | 0.35 | 10.70 | 105.27 | 0.103 | 0.013 | 45.6 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.68 | 349 | 82.9% | 11.38 |
| North Sewers | 304 | DCB1 | DCBMH1 | 0.07 | 0.95 | 5 | 0.95 | 0.07 | 0.07 | 0.07 | 10.00 | 109.11 | 0.020 | 0.013 | 21.1 | 0.5% | 300 | 0.97 | 0.068 | 0.78 | 0.45 | 190 | 29.5% | 10.45 |
| North Sewers | 305 | DCBMH1 | DCBMH3 | 0.08 | 0.95 | 5 | 0.95 | 0.08 | 0.52 | 0.49 | 11.38 | 101.84 | 0.140 | 0.013 | 20.4 | 0.5% | 450 | 1.27 | 0.202 | 1.27 | 0.27 | 392 | 69.3% | 11.65 |
| North Sewers | 306 | STM PLUG2 | STM MH2 | 0.05 | 0.95 | 5 | 0.95 | 0.05 | 0.05 | 0.05 | 10.00 | 109.11 | 0.014 | 0.013 | 16.4 | 0.5% | 300 | 0.99 | 0.070 | 0.72 | 0.38 | 166 | 20.6% | 10.38 |
| North Sewers | 307 | STM PLUG3 | STM MH2 | 0.18 | 0.95 | 5 | 0.95 | 0.17 | 0.18 | 0.17 | 10.00 | 109.11 | 0.052 | 0.013 | 21.3 | 0.5% | 300 | 0.97 | 0.068 | 0.97 | 0.37 | 270 | 75.8% | 10.37 |
| North Sewers | 308 | STM PLUG4 | STM MH2 | 0.03 | 0.95 | 5 | 0.95 | 0.03 | 0.03 | 0.03 | 10.00 | 109.11 | 0.009 | 0.013 | 15.4 | 0.5% | 300 | 0.97 | 0.068 | 0.62 | 0.41 | 138 | 12.6% | 10.41 |
| North Sewers | - | STM MH2 | STM MH3 | - | - | 5 | - | 0.00 | 0.26 | 0.25 | 10.37 | 107.06 | 0.073 | 0.013 | 20.4 | 0.5% | 375 | 1.12 | 0.124 | 1.10 | 0.31 | 308 | 59.2% | 10.68 |
| North Sewers | 309 | STM PLUG5 | STM MH3 | 0.03 | 0.95 | 5 | 0.95 | 0.03 | 0.03 | 0.03 | 10.00 | 109.11 | 0.009 | 0.013 | 15.4 | 0.5% | 300 | 0.97 | 0.068 | 0.62 | 0.41 | 138 | 12.6% | 10.41 |
| North Sewers | - | STM MH3 | STM MH4 | - | - | 5 | - | 0.00 | 0.29 | 0.28 | 10.68 | 105.39 | 0.081 | 0.013 | 5.4 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.08 | 319 | 65.1% | 10.76 |
| North Sewers | - | STM MH4 | DCBMH2 | - | - | 5 | - | 0.00 | 0.29 | 0.28 | 10.76 | 104.97 | 0.080 | 0.013 | 4.6 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.07 | 319 | 64.8% | 10.83 |
| North Sewers | 310 | DCBMH2 | DCBMH3 | 0.06 | 0.95 | 5 | 0.95 | 0.06 | 0.35 | 0.33 | 10.83 | 104.62 | 0.097 | 0.013 | 21.1 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.31 | 341 | 77.9% | 11.14 |
| North Sewers | 311 | DCBMH3 | DCBMH4 | 0.07 | 0.95 | 5 | 0.95 | 0.07 | 0.94 | 0.89 | 11.65 | 100.55 | 0.249 | 0.013 | 52.2 | 0.5% | 525 | 1.40 | 0.304 | 1.40 | 0.62 | 487 | 82.0% | 12.27 |
| North Sewers | 312 | DCB2 | DCBMH4 | 0.06 | 0.95 | 5 | 0.95 | 0.06 | 0.06 | 0.06 | 10.00 | 109.11 | 0.017 | 0.013 | 24.3 | 0.5% | 300 | 0.97 | 0.068 | 0.75 | 0.54 | 179 | 25.3% | 10.54 |
| North Sewers | 313 | DCBMH4 | DCBMH5 | 0.12 | 0.95 | 5 | 0.95 | 0.11 | 1.12 | 1.06 | 12.27 | 97.72 | 0.289 | 0.013 | 20.1 | 0.6% | 525 | 1.54 | 0.333 | 1.54 | 0.22 | 497 | 86.7% | 12.48 |
| North Sewers | 314 | STM PLUG6 | STM MH5 | 0.05 | 0.95 | 5 | 0.95 | 0.05 | 0.05 | 0.05 | 10.00 | 109.11 | 0.014 | 0.013 | 21.0 | 0.5% | 300 | 0.97 | 0.068 | 0.71 | 0.49 | 167 | 21.3% | 10.49 |
| North Sewers | 315 | STM PLUG7 | STM MH5 | 0.17 | 0.95 | 5 | 0.95 | 0.16 | 0.17 | 0.16 | 10.00 | 109.11 | 0.049 | 0.013 | 19.2 | 0.5% | 300 | 0.97 | 0.068 | 0.97 | 0.33 | 265 | 71.6% | 10.33 |
| North Sewers | - | STM MH5 | STM MH6 | - | - | 5 | - | 0.00 | 0.22 | 0.21 | 10.33 | 107.25 | 0.062 | 0.013 | 20.1 | 0.5% | 375 | 1.12 | 0.124 | 1.05 | 0.32 | 290 | 50.2% | 10.65 |
| North Sewers | 316 | STM PLUG8 | STM MH6 | 0.10 | 0.95 | 5 | 0.95 | 0.10 | 0.10 | 0.10 | 10.00 | 109.11 | 0.029 | 0.013 | 11.0 | 0.5% | 300 | 0.97 | 0.068 | 0.86 | 0.21 | 217 | 42.1% | 10.21 |
| North Sewers | - | STM MH6 | STM MH7 | - | - | 5 | - | 0.00 | 0.32 | 0.30 | 10.65 | 105.53 | 0.089 | 0.013 | 5.6 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.08 | 331 | 71.9% | 10.73 |
| North Sewers | 317 | STM PLUG9 | STM MH7 | 0.06 | 0.95 | 5 | 0.95 | 0.06 | 0.06 | 0.06 | 10.00 | 109.11 | 0.017 | 0.013 | 11.9 | 0.5% | 300 | 0.97 | 0.068 | 0.75 | 0.26 | 179 | 25.3% | 10.26 |
| North Sewers | - | STM MH7 | DCBMH6 | - | - | 5 | - | 0.00 | 0.38 | 0.36 | 10.73 | 105.10 | 0.105 | 0.013 | 5.6 | 0.5% | 375 | 1.12 | 0.124 | 1.12 | 0.08 | 353 | 85.0% | 10.82 |
| North Sewers | 318 | DCBMH6 | DCBMH5 | 0.05 | 0.95 | 5 | 0.95 | 0.05 | 0.43 | 0.41 | 10.82 | 104.66 | 0.119 | 0.013 | 24.3 | 0.5% | 450 | 1.27 | 0.202 | 1.24 | 0.33 | 369 | 58.9% | 11.14 |
| North Sewers | 319 | DCBMH5 | STM MH8 | 0.11 | 0.95 | 5 | 0.95 | 0.10 | 1.66 | 1.58 | 12.48 | 96.77 | 0.424 | 0.013 | 23.2 | 0.6% | 600 | 1.68 | 0.476 | 1.68 | 0.23 | 574 | 89.1% | 12.71 |
| North Sewers | - | STM MH8 | STM MH9 | - | - | 5 | - | 0.00 | 1.66 | 1.58 | 12.71 | 95.79 | 0.420 | 0.013 | 8.1 | 0.6% | 600 | 1.68 | 0.476 | 1.68 | 0.08 | 572 | 88.2% | 12.79 |
| North Sewers | - | STM MH9 | STM MH10 | - | - | 5 | - | 0.00 | 1.66 | 1.58 | 12.79 | 95.45 | 0.418 | 0.013 | 50.0 | 0.6% | 600 | 1.68 | 0.476 | 1.68 | 0.50 | 571 | 87.9% | 13.29 |
| West Sewers | - | STM MH10 | STM MH11 | - | - | 5 | - | 0.00 | 1.66 | 1.58 | 13.29 | 93.42 | 0.409 | 0.013 | 42.9 | 0.6% | 600 | 1.68 | 0.476 | 1.68 | 0.43 | 567 | 86.0% | 13.71 |
| West Sewers | 320 | STM PLUG10 | STM MH12 | 0.08 | 0.95 | 5 | 0.95 | 0.08 | 0.08 | 0.08 | 10.00 | 109.11 | 0.023 | 0.013 | 19.6 | 0.5% | 300 | 0.97 | 0.068 | 0.81 | 0.40 | 199 | 33.7% | 10.40 |
| West Sewers | 321 | STM PLUG11 | STM MH12 | 0.04 | 0.95 | 5 | 0.95 | 0.04 | 0.04 | 0.04 | 10.00 | 109.11 | 0.012 | 0.013 | 3.7 | 0.5% | 300 | 0.97 | 0.068 | 0.67 | 0.09 | 154 | 16.8% | 10.09 |
| West Sewers | 322 | STM PLUG12 | STM MH12 | 0.07 | 0.95 | 5 | 0.95 | 0.07 | 0.07 | 0.07 | 10.00 | 109.11 | 0.020 | 0.013 | 7.2 | 0.5% | 300 | 0.97 | 0.068 | 0.78 | 0.15 | 190 | 29.5% | 10.15 |
| West Sewers | - | STM MH12 | STM MH13 | - | - | 5 | - | 0.00 | 0.19 | 0.18 | 10.40 | 106.86 | 0.054 | 0.013 | 10.7 | 0.5% | 300 | 0.97 | 0.068 | 0.97 | 0.18 | 274 | 78.4% | 10.59 |
| West Sewers | - | STM MH13 | STM MH11 | - | - | 5 | - | 0.00 | 0.19 | 0.18 | 10.59 | 105.87 | 0.053 | 0.013 | 15.6 | 0.5% | 375 | 1.12 | 0.124 | 1.00 | 0.26 | 273 | 42.8% | 10.85 |
| West Sewers | - | STM MH11 | OGS1 | - | - | 5 | - | 0.00 | 1.85 | 1.76 | 13.71 | 91.76 | 0.448 | 0.013 | 44.9 | 0.5% | 675 | 1.66 | 0.594 | 1.66 | 0.45 | 607 | 75.4% | 14.16 |
| South Sewers TBD by Mech | 323 | DRAIN2 | DRAIN2 | 0.17 | 0.95 | 5 | 0.95 | 0.16 | 0.17 | 0.16 | 10.00 | 109.11 | 0.049 | 0.013 | 40.9 | 0.5% | 300 | 0.97 | 0.068 | 0.97 | 0.70 | 265 | 71.6% | 10.70 |
| Ph. 4B Roof Leader TBD by Mech | 324 | Ph. 4B Roof | DRAIN2 | 0.13 | 0.95 | 5 | 0.95 | 0.12 | 0.13 | 0.12 | 10.00 | 109.11 | 0.037 | 0.013 | 5.0 | 0.5% | 300 | 0.97 | 0.068 | 0.92 | 0.09 | 239 | 54.7% | 10.09 |
| South Sewers TBD by Mech | 325 | DRAIN2 | DRAIN4 | 0.10 | 0.95 | 5 | 0.95 | 0.10 | 0.40 | 0.38 | 10.33 | 107.25 | 0.113 | 0.013 | 17.4 | 0.6% | 375 | 1.23 | 0.136 | 1.23 | 0.24 | 390 | 83.4% | 10.57 |
| South Sewers TBD by Mech | 326 | DRAIN4 | DRAIN5 | 0.18 | 0.95 | 5 | 0.95 | 0.17 | 0.58 | 0.55 | 10.57 | 105.88 | 0.162 | 0.013 | 58.5 | 0.5% | 450 | 1.27 | 0.202 | 1.27 | 0.77 | 415 | 80.5% | 11.34 |
| South Sewers | 327 | STM PLUG13 | STM MH15 | 0.03 | 0.95 | 5 | 0.95 | 0.03 | 0.03 | 0.03 | 10.00 | 109.11 | 0.009 | 0.013 | 24.2 | 0.5% | 300 | 0.97 | 0.068 | 0.62 | 0.65 | 138 | 12.6% | 10.63 |
| South Sewers | 328 | STM PLUG14 | STM MH15 | 0.07 | 0.95 | 5 | 0.95 | 0.07 | 0.07 | 0.07 | 10.00 | 109.11 | 0.020 | 0.013 | 5.6 | 0.5% | 300 | 0.93 | 0.966 | 0.76 | 0.12 | 193 | 30.7% | 10.12 |
| South Sewers | - | STM MH15 | STM MH16 | - | - | 5 | - | 0.00 | 0.10 | 0.10 | 10.45 | 106.61 | 0.028 | 0.013 | 9.8 | 0.5% | 300 | 0.97 | 0.068 | 0.86 | 0.19 | 215 | 41.1% | 10.64 |
| South Sewers | 329 | STM PLUG15 | STM MH16 | 0.02 | 0.95 | 5 | 0.95 | 0.02 | 0.02 | 0.02 | 10.00 | 109.11 | 0.006 | 0.013 | 6.7 | 0.5% | 300 | 0.97 | 0.068 | 0.56 | 0.20 | 119 | 8.4% | 10.20 |
| South Sewers | - | STM MH16 | STM MH18 | - | - | 5 | - | 0.00 | 0.12 | 0.11 | 10.64 | 105.58 | 0.033 | 0.013 | 18.4 | 0.5% | 375 | 1.12 | 0.124 | 0.89 | 0.35 | 229 | 27.0% | 10.96 |
| South Sewers | - | STM MH18 | STM PLUG20 | - | - | 5 | - | 0.00 | 0.12 | 0.11 | 10.99 | 103.79 | 0.033 | 0.013 | 10.3 | 0.5% | 375 | 1.12 | 0.124 | 0.88 | 0.19 | 228 | 26.5% | 11.18 |
| South Sewers TBD by Mech | - | STM PLUG20 | DRAIN5 | - | - | 5 | - | 0.00 | 0.12 | 0.11 | 11.18 | 102.81 | 0.033 | 0.013 | 13.3 | 0.5% | 375 | 1.12 | 0.124 | 0.88 | 0.64 | 227 | 26.3% | 11.82 |
| South Sewers | 330 | STM PLUG16 | STM MH17 | 0.07 | 0.95 | 5 | 0.95 | 0.07 | 0.07 | 0.07 | 10.00 | 109.11 | 0.020 | 0.013 | 5.3 | 0.5% | 300 | 0.97 | 0.068 | 0.78 | 0.11 | 190 | 29.5% | 10.11 |
| South Sewers | 331 | STM PLUG17 | STM MH17 | 0.04 | 0.95 | 5 | 0.95 | 0.04 | 0.04 | 0.04 | 10.00 | 109.11 | 0.012 | 0.013 | 30.4 | 0.5% | 300 | 0.97 | 0.068 | 0.67 | 0.75 | 154 | 16.8% | 10.75 |
| South Sewers | - | STM MH17 | STM MH18 | - | - | 5 | - | 0.00 | 0.11 | 0.10 | 10.45 | 106.61 | 0.031 | 0.013 | 6.2 | 0.5% | 300 | 0.97 | 0.068 | 0.88 | 0.12 | 223 | 45.3% | 10.57 |
| South Sewers | 332 | STM PLUG18 | STM MH18 | 0.02 | 0.95 | 5 | 0.95 | 0.02 | 0.02 | 0.02 | 10.00 | 109.11 | 0.006 | 0.013 | 13.8 | 0.5% | 300 | 0.97 | 0.068 | 0.56 | 0.41 | 119 | 8.4% | 10.41 |
| South Sewers | - | STM MH18 | STM MH20 | - | - | 5 | - | 0.00 | 0.13 | 0.12 | 10.57 | 105.97 | 0.036 | 0.013 | 10.5 | 0.5% | 375 | 1.12 | 0.124 | 0.91 | 0.27 | 239 | 29.3% | 10.76 |
| South Sewers | - | STM MH20 | STM PLUG19 | - | - | 5 | - | 0.00 | 0.13 | 0.12 | 10.76 | 104.95 | 0.036 | 0.013 | 12.2 | 0.5% | 375 | 1.12 | 0.124 | 0.90 | 0.22 | 236 | 29.0% | 10.99 |
| South Sewers | - | STM PLUG19 | | | | | | | | | | | | | | | | | | | | | | |



DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

**THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE**

SANITARY CATCHMENT PLAN

TATHAM ENGINEERING

| | | |
|---------------|------------------|-------------------|
| DESIGN: LC | FILE: 422426 | DWG: SAN-1 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:500 | |



Sanitary Sewer Design Sheet

Project Information

| | |
|--|--------|
| The Village of Innis Landing, 800 Yonge Street | 422426 |
|--|--------|

Drawing Reference

| | |
|---|-----------------|
| Sanitary Sewer Catchment Plan (Drawing SAN-1) | September 06/24 |
|---|-----------------|

Prepared By

| | |
|-----|-----------------|
| LJC | September 06/24 |
|-----|-----------------|

Reviewed By

| | |
|----|-----------------|
| LC | September 06/24 |
|----|-----------------|

Municipality

| |
|----------------|
| City of Barrie |
|----------------|

Population Density

| Capita per Unit | Low | Medium | High |
|-----------------|------|--------|------|
| | 3.13 | 2.34 | 1.67 |

Infiltration

| | |
|-----------------------|------|
| Infiltration (L/s/ha) | 0.10 |
|-----------------------|------|

Manning's Coefficient

| Pipe Material | Value |
|---------------|-------|
| Concrete | 0.013 |
| PVC | 0.013 |
| Applied | 0.013 |

Flow

| Development Type | Average (L/cap/day) | Peaking Factor |
|------------------|---------------------|----------------|
| Residential | 225 | 2 |

| Development Type | Average (L/ha/day) | Peaking Factor |
|-------------------|--------------------|----------------|
| Institution | 28,000 | 2 |
| Commercial | 28,000 | 2 |
| Industrial (High) | 55,000 | - |
| Industrial (Low) | 50,000 | - |

Notes

1) Average flow and peak flow values obtained from "Sanitary Flow Calculations" design sheet.

2) Phase 1 - LTC Home population density (PPU) calculated to be 1.00 per "Sanitary Flow Calculations" design sheet.

Version Date: September 6, 2024

Version Number: 2

Engineers Seal



| Street Name | Area Label/ID | Upstream Maintenance Hole | Downstream Maintenance Hole | Development Type | Population Density | Number of Units | Population (cap) | Accumulated Population (cap) | Peaking Factor | Area (ha) | Cumulative Area (ha) | Average Flow (L/s) | | | Peak Flow (L/s) | | | Proposed Sanitary Sewer | | | | | | | |
|--------------|---------------|---------------------------|-----------------------------|------------------------|--------------------|-----------------|------------------|------------------------------|----------------|-----------|----------------------|--------------------|--------------|-------|-----------------|--------------|-------|-------------------------|-----------------|----------------------------|--------------------------|--------------------------|-----------------------|--------------------------------|--------------------------------------|
| | | | | | | | | | | | | Development | Infiltration | Total | Development | Infiltration | Total | Sewer Length (m) | Sewer Slope (%) | Actual Sewer Diameter (mm) | Full Flow Velocity (m/s) | Full Flow Capacity (L/s) | Actual Velocity (m/s) | Calculated Sewer Diameter (mm) | Percentage of Full Flow Capacity (%) |
| Country Lane | 201 | SAN PLUG1 | SAN MH1 | Phase 1 - LTC Home | 1.00 | 192 | 192 | 192 | 3.64 | 0.66 | 0.66 | 1.19 | - | 1.19 | 4.02 | 0.07 | 4.09 | 26.7 | 2.0% | 250 | 1.71 | 84.10 | 0.87 | 80 | 4.9% |
| Country Lane | - | SAN MH1 | SAN MH2 | Phase 1 - LTC Home | - | - | - | 192 | 3.64 | - | 0.66 | 1.19 | - | 1.19 | 4.02 | 0.07 | 4.09 | 62.3 | 0.4% | 250 | 0.77 | 37.61 | 0.48 | 109 | 10.9% |
| Country Lane | - | SAN MH2 | EX. MH1 | Phase 1 - LTC Home | - | - | - | 192 | 3.64 | - | 0.66 | 1.19 | - | 1.19 | 4.02 | 0.07 | 4.09 | 11.5 | 0.5% | 250 | 0.86 | 42.05 | 0.52 | 104 | 9.7% |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yonge Street | 202 | SAN PLUG4 | SAN MH6 | Phase 2 - Retire. Home | 1.67 | 276 | 461 | 461 | 3.64 | 1.29 | 1.29 | 1.42 | - | 1.42 | 4.79 | 0.13 | 4.92 | 7.2 | 2.1% | 250 | 1.76 | 86.18 | 0.93 | 85 | 5.7% |
| Yonge Street | - | SAN MH6 | SAN MH5 | Phase 2 - Retire. Home | - | - | - | 461 | 3.64 | - | 1.29 | 1.42 | - | 1.42 | 4.79 | 0.13 | 4.92 | 57.1 | 0.4% | 250 | 0.77 | 37.61 | 0.51 | 117 | 13.1% |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yonge Street | 203 | SAN PLUG2 | SAN MH4 | Phase 4 - Market/Res | 1.67 | 360 | 602 | 602 | 3.64 | 0.78 | 0.78 | 1.85 | - | 1.85 | 6.26 | 0.08 | 6.34 | 2.9 | 2.1% | 250 | 1.76 | 86.18 | 1.00 | 94 | 7.4% |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yonge Street | 204 | SAN PLUG3 | SAN MH4 | Phase 3 - Retire. Home | 1.67 | 278 | 465 | 465 | 3.64 | 0.33 | 0.33 | 1.36 | - | 1.36 | 4.70 | 0.03 | 4.73 | 6.2 | 2.0% | 250 | 1.71 | 84.10 | 0.91 | 85 | 5.6% |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yonge Street | - | SAN MH4 | SAN MH5 | Phase 3 - Retire. Home | - | - | - | 1,067 | - | - | 1.11 | - | - | 3.21 | - | - | 11.07 | 27.7 | 0.4% | 250 | 0.77 | 37.61 | 0.63 | 158 | 29.4% |
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| Yonge Street | - | SAN MH5 | EX. MH2 | Phase 3 - Retire. Home | - | - | - | 1,528 | - | - | 2.40 | - | - | 4.63 | - | - | 15.99 | 22.9 | 0.4% | 250 | 0.77 | 37.61 | 0.70 | 181 | 42.5% |

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

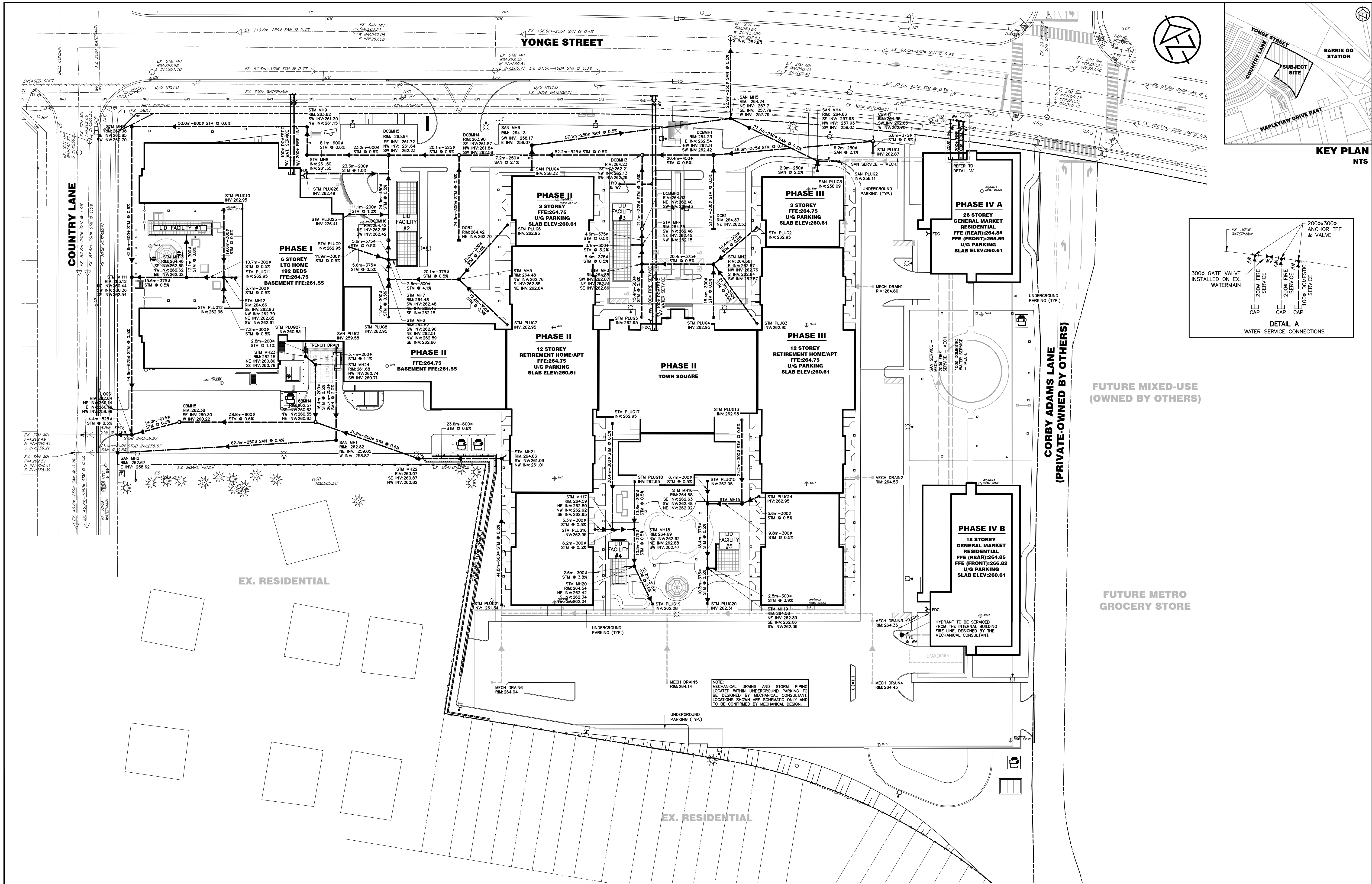


THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

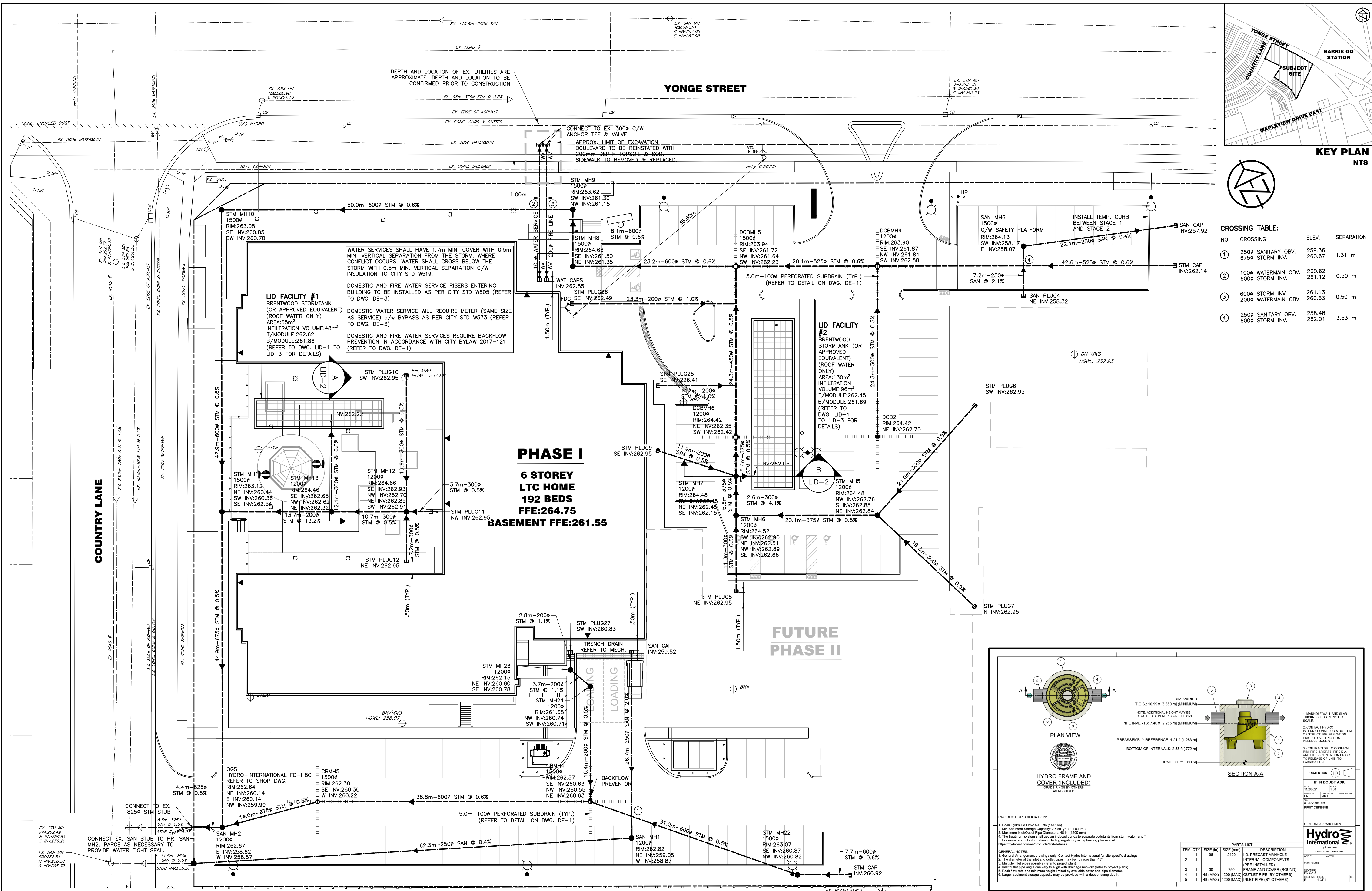
SANITARY SEWER
DESIGN SHEET



| | | |
|---------------|------------------|----------------------|
| DESIGN: LC | FILE: 422426 | DWG: SAN-2 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: - | |

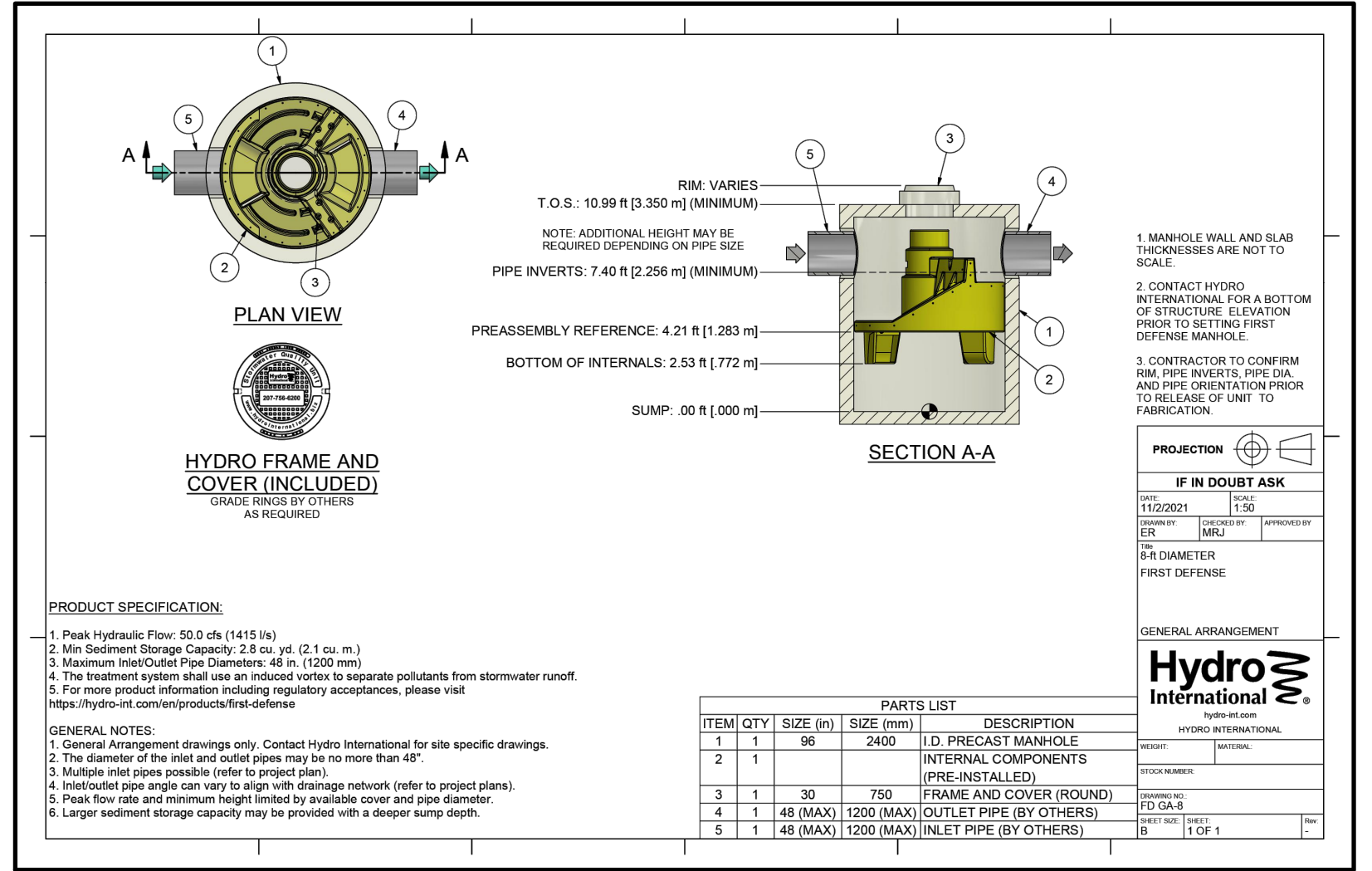


| | | | | | | | | | | |
|--|--|---|-----|--|------------|----------------|--|---|--|--|
| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | BENCHMARK TBM#1 ELEV. 263.48 m MNNP No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | No. | REVISION DESCRIPTION | DATE | ENGINEER STAMP | <div><div><div>THE VILLAGE OF INNIS LANDING</div><div>800 YONGE STREET</div><div>CITY OF BARRIE</div></div><div><div>MASTER SERVICING PLAN</div></div></div> | <div><div><div>TATHAM</div><div>ENGINEERING</div></div></div> | | |
| | | | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | |
| | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | |
| | | | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | |
| <div><div>DESIGN: LC</div><div>FILE: 422426</div><div>DWG:</div></div> <div><div>DRAWN: LQ/JLM</div><div>DATE: APRIL 2024</div><div>MSP-1</div></div> <div><div>CHECK: BFS/NM</div><div>SCALE: 1:500</div></div> | | | | | | | | | | |



CROSSING TABLE:

| NO. | CROSSING | ELEV. | SEPARATION |
|-----|--|------------------|------------|
| ① | 250# SANITARY OBV. 675# STORM INV. | 259.36 260.67 | 1.31 m |
| ② | 100# WATERMAIN OBV. 600# STORM INV. | 260.62 261.12 | 0.50 m |
| ③ | 600# STORM INV. 200# WATERMAIN OBV. | 261.13 260.63 | 0.50 m |
| ④ | 250# SANITARY OBV. 600# STORM INV. | 258.48 262.01 | 3.53 m |



DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
MNR No. 001931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

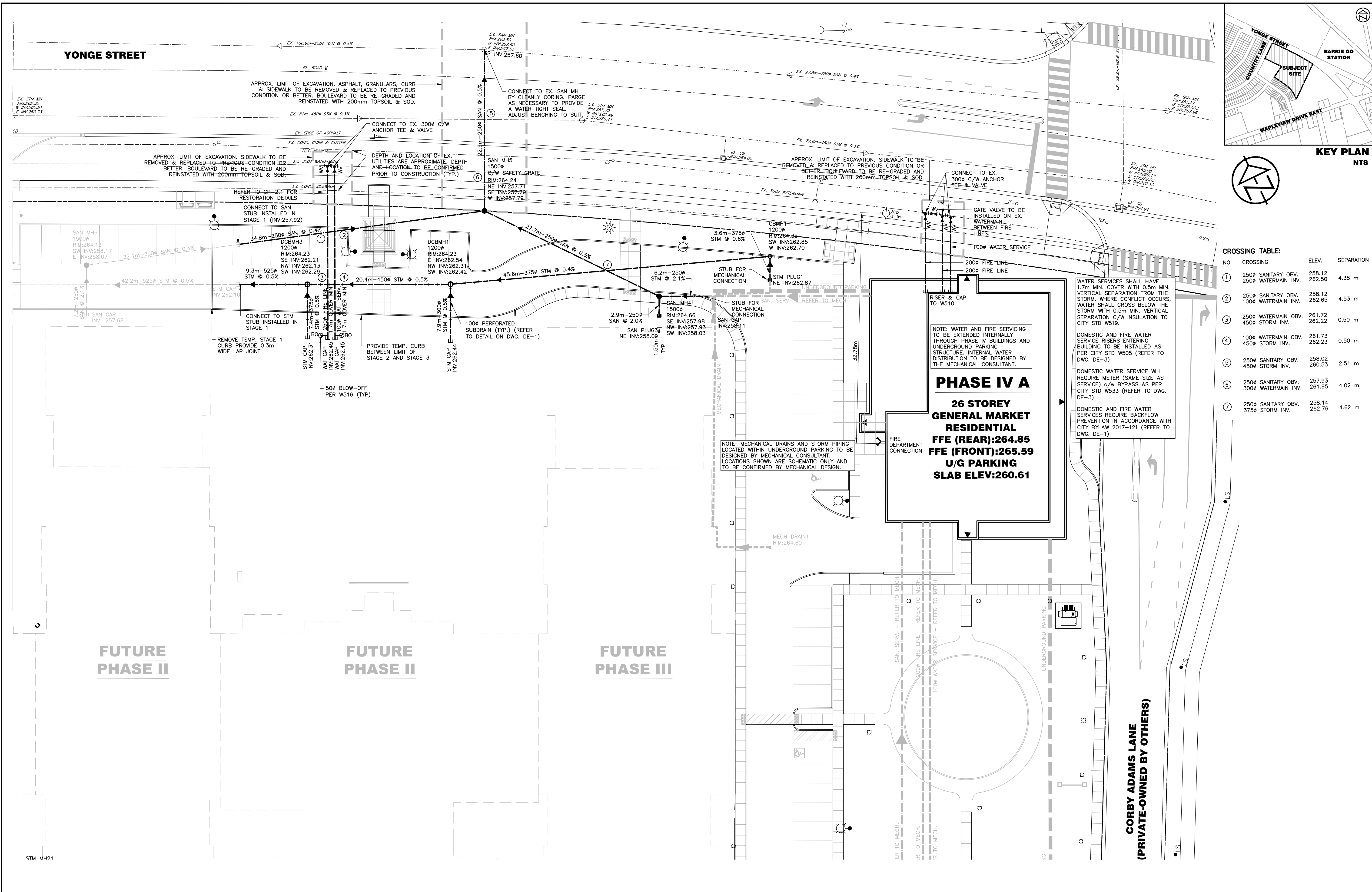
THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE



SITE SERVICING PLAN
STAGE 1

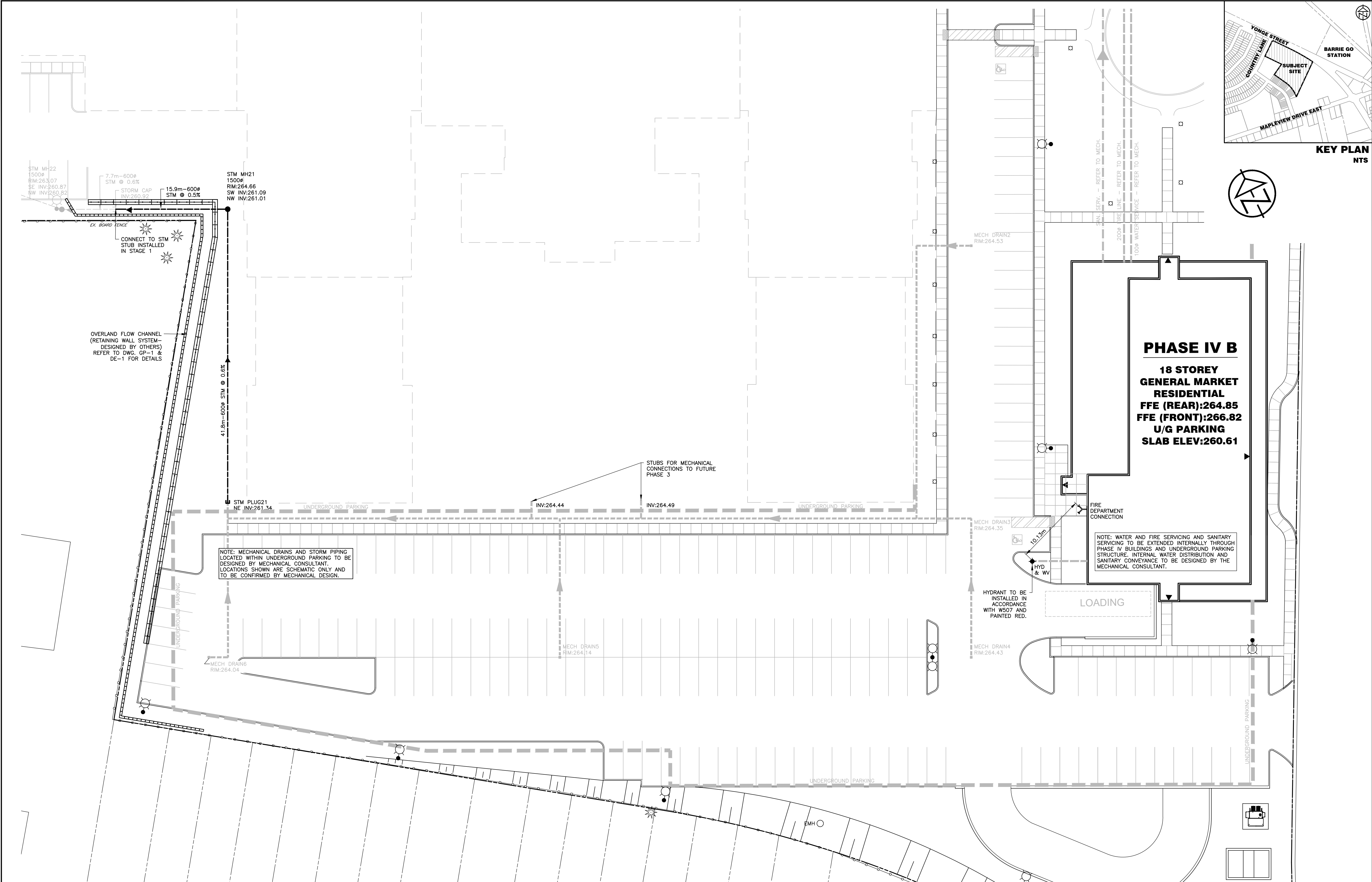
DESIGN: LC
FILE: 422426
DWG: SS-1

DRAWN: LQ/JLM
DATE: APRIL 2024

CHECK: BFS/NM
SCALE: 1:250



| | | | | | | | | | | |
|--|--|--|-----|--|------------|--|---|---------------|------------------|----------------------------------|
| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | No. | REVISION DESCRIPTION | DATE | ENGINEER STAMP | <div>THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE</div> <div></div> <div>SITE SERVICING PLAN – STAGE 2 SHEET 1 OF 2</div> | DESIGN: LC | FILE: 422426 | DWG: SS-2.1 |
| | | | 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | <div></div> | | DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | CHECK: BFS/NM | SCALE: 1:250 | |
| | | | 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | | | | | |
| | | | 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | | | | | |
| | | | 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | | | | | |



DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

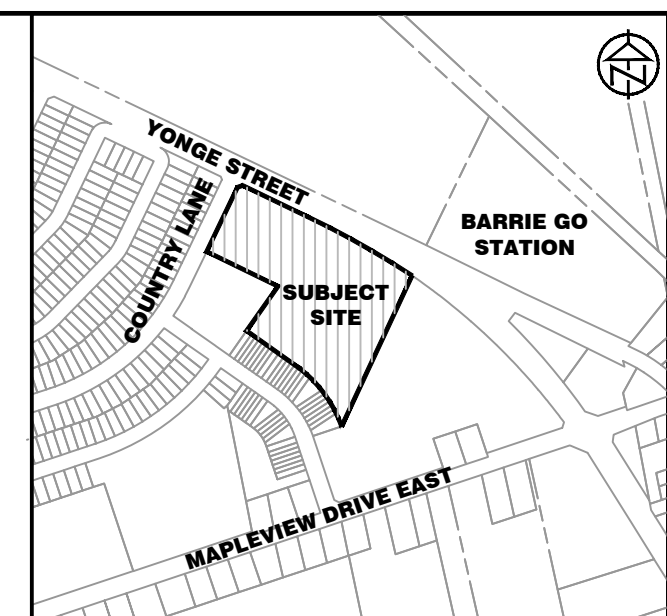
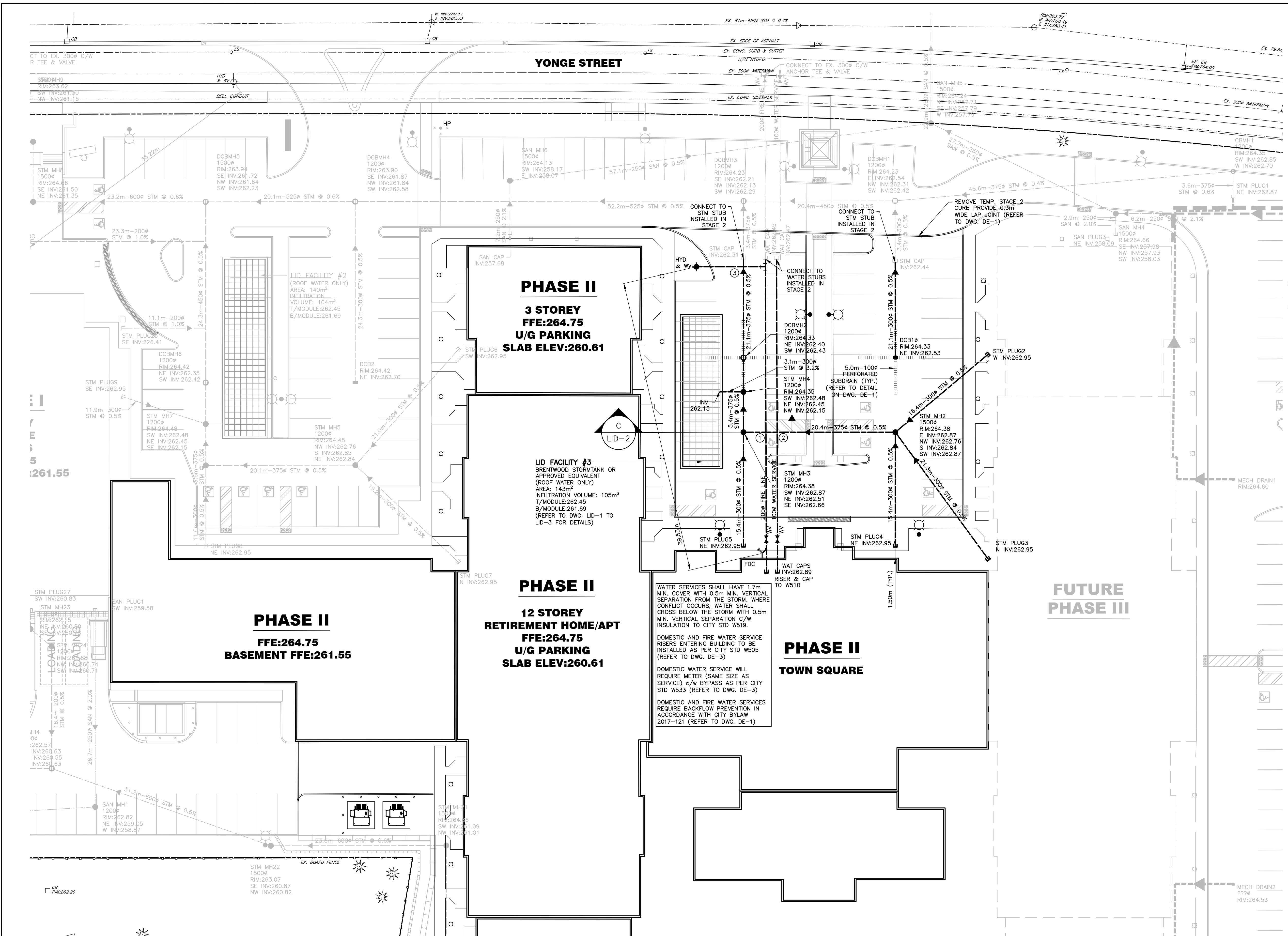
TBM#1 ELEV. 263.48 m

MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

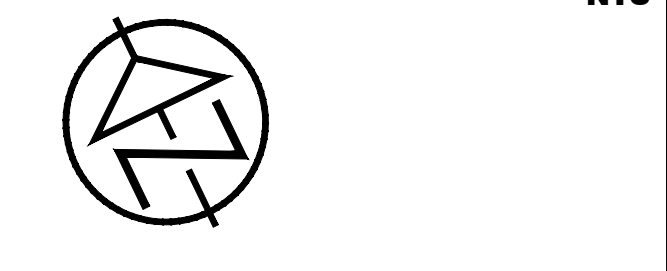
| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

| | | | |
|---|--|---------------|--------------------|
| THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | | | |
| SITE SERVICING PLAN - STAGE 2 SHEET 2 OF 2 | | DESIGN: LC | DWG: SS-2.2 |
| | | DRAWN: LQ/JLM | FILE: 422426 |
| | | CHECK: BFS/NM | DATE: APRIL 2024 |
| | | SCALE: 1:250 | |



KEY PLAN
NTS



CROSSING TABLE:

| NO. | CROSSING | ELEV. | SEPARATION |
|-----|---|------------------|------------|
| ① | 250# WATER SERVICE OBV. 375# STORM INV. | 262.18 262.68 | 0.50m |
| ② | 100# WATER SERVICE OBV. 375# STORM MAIN INV. | 262.13 262.68 | 0.55m |

DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT - AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

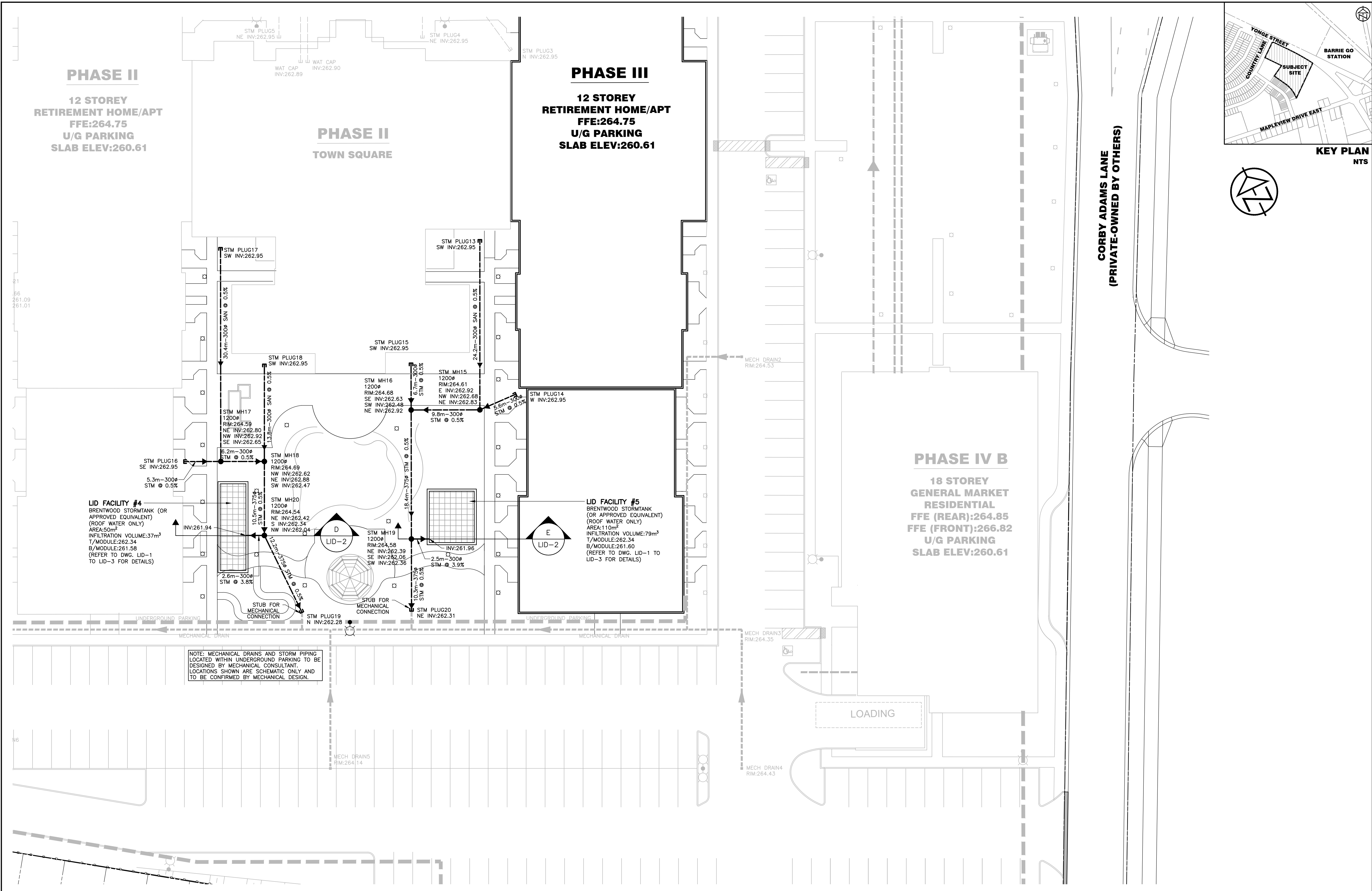
ENGINEER STAMP

THE VILLAGE OF INNS-LANDING
800 YONGE STREET
CITY OF BARRIE

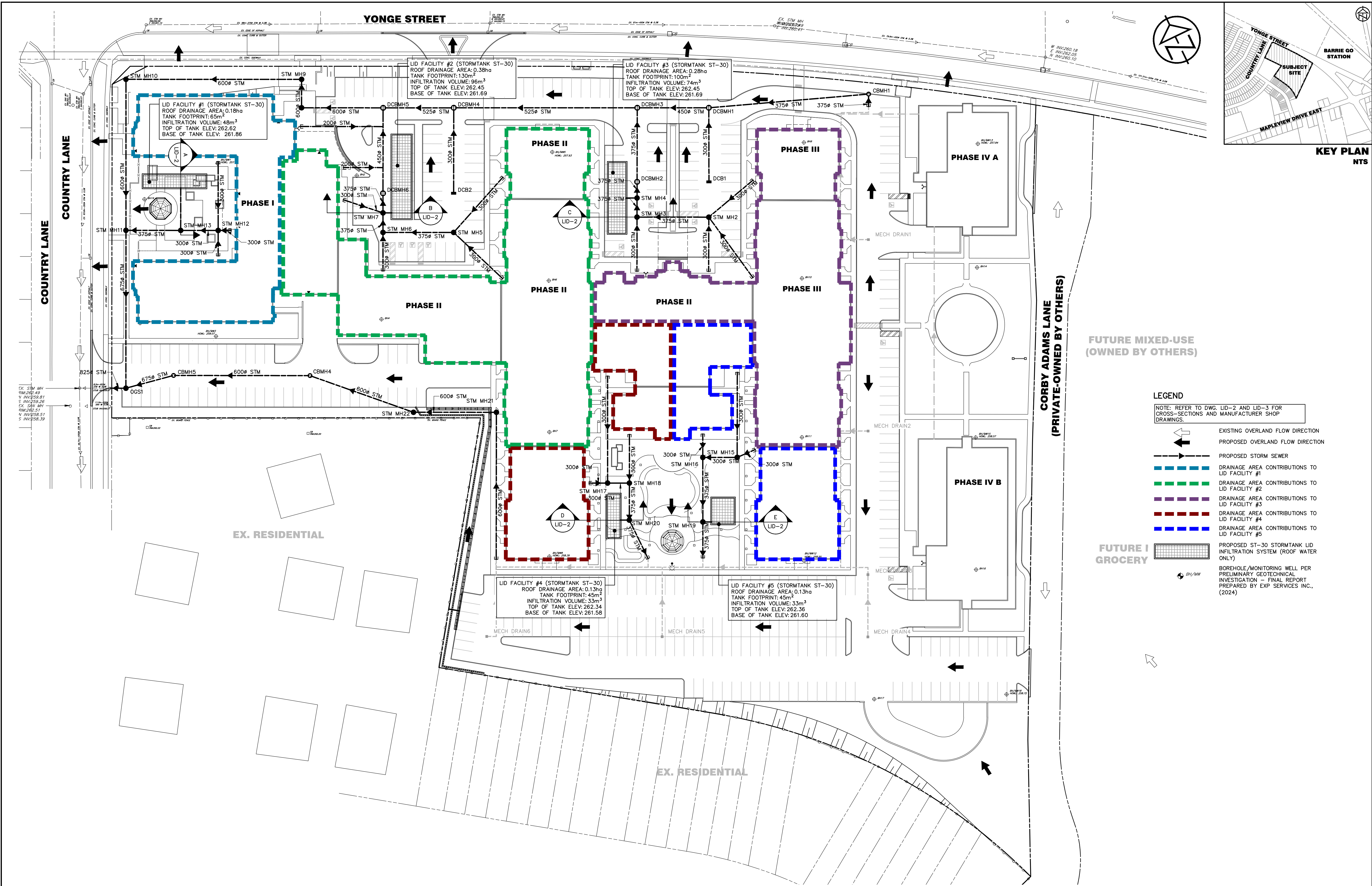
SITE SERVICING PLAN
STAGE 3

TATHAM ENGINEERING

| | | |
|---------------|------------------|------------------|
| DESIGN: LC | FILE: 422426 | DWG: SS-3 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:250 | |



| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 001931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | | <table><thead><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr></thead><tbody><tr><td>1.</td><td>SITE PLAN APPROVAL - FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL - SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL - THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL - FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></tbody></table> | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | ENGINEER STAMP | THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE SITE SERVICING PLAN STAGE 4 | | |
|--|--|--|--|--|--|---|-----|----------------------|------|----|---------------------------------------|------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---------------------------|---|--|--|
| No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN: LC | | FILE: 422426 | | DWG: | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN: LQ/JLM | | DATE: APRIL 2024 | | SS-4 | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECK: BFS/NM | | SCALE: 1:250 | | | | | | | | | | | | | | | | | | | | | | | | | | |



DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

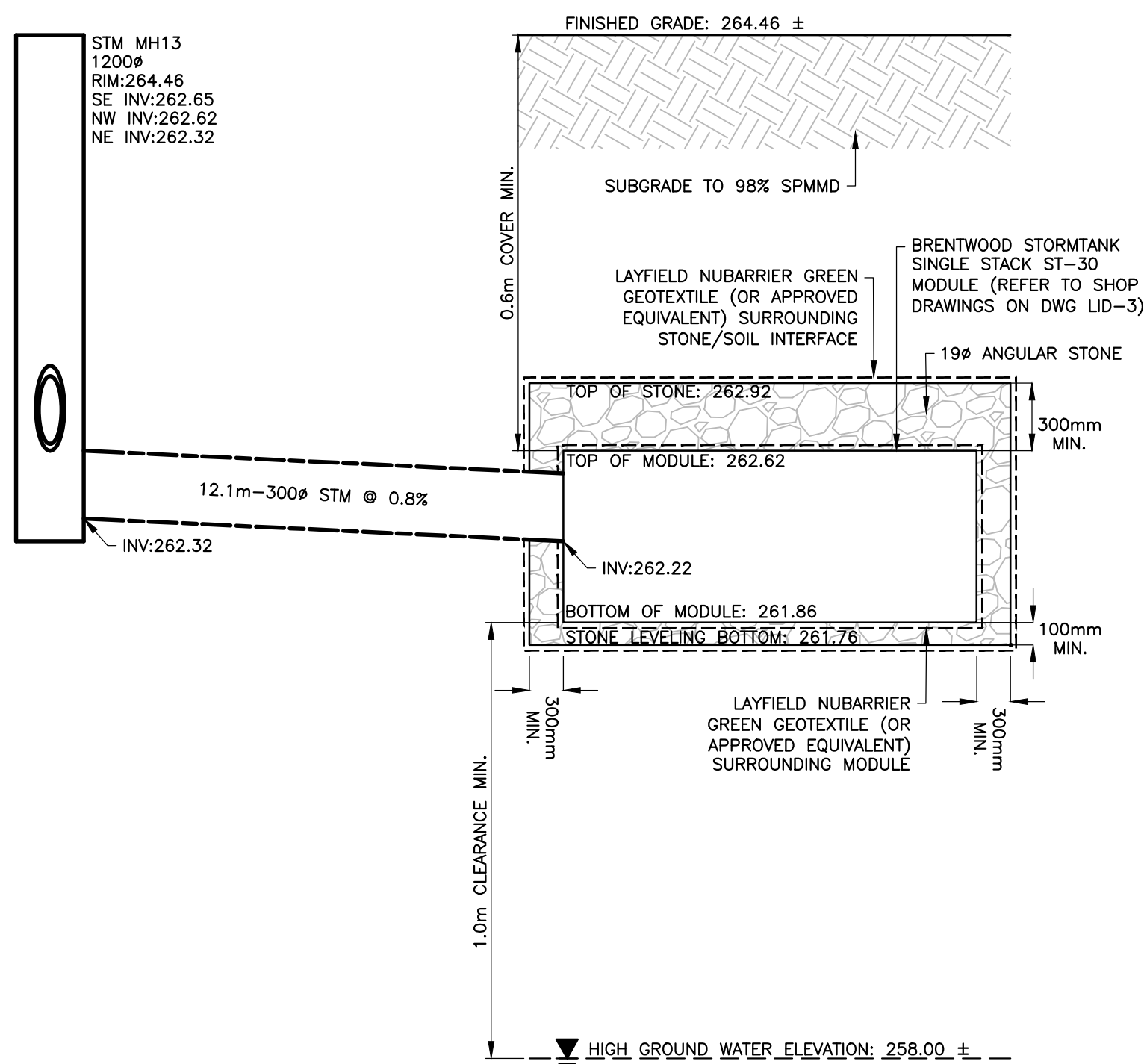
| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

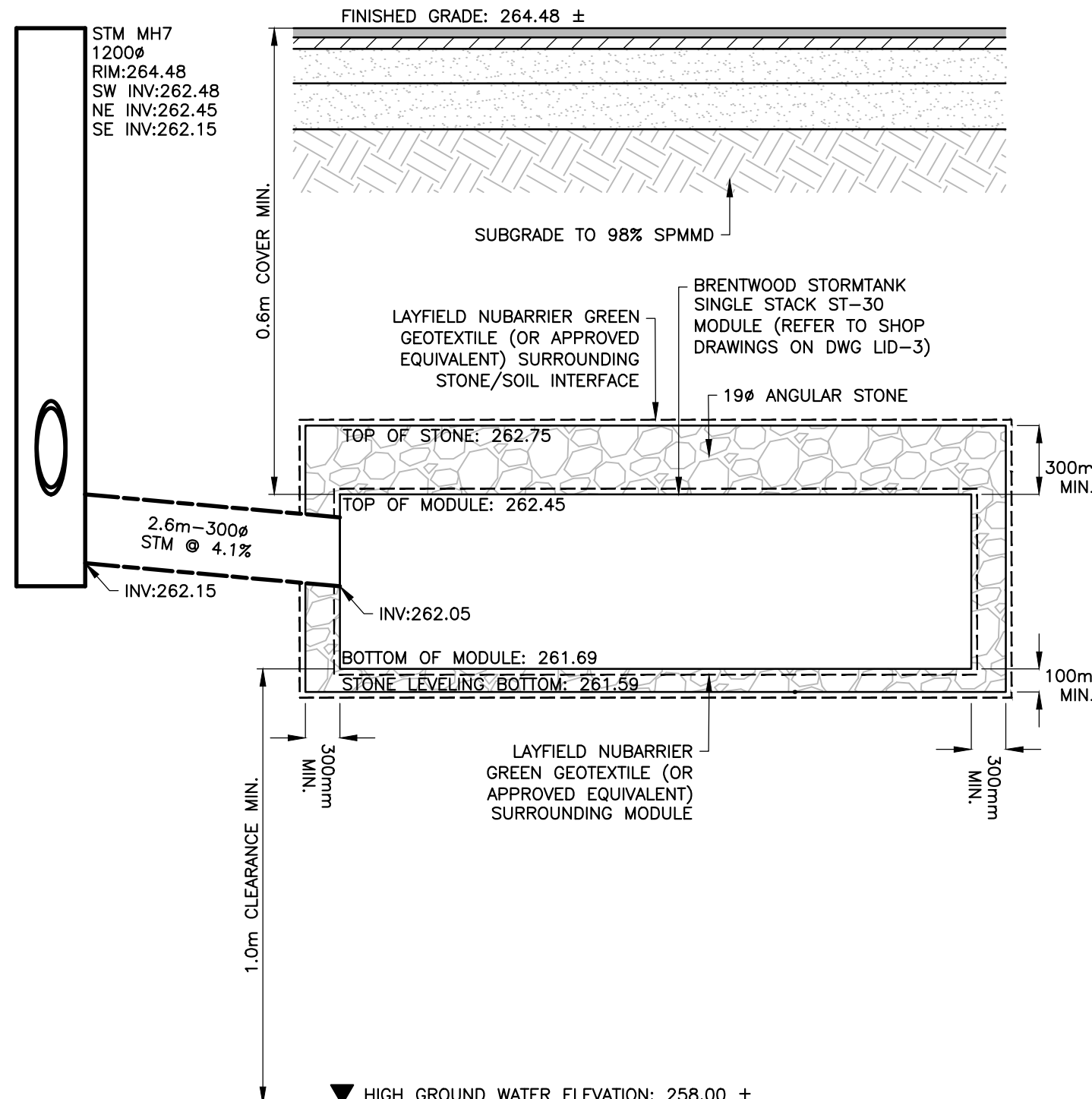
THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

LOW IMPACT DEVELOPMENT
CATCHMENT PLAN

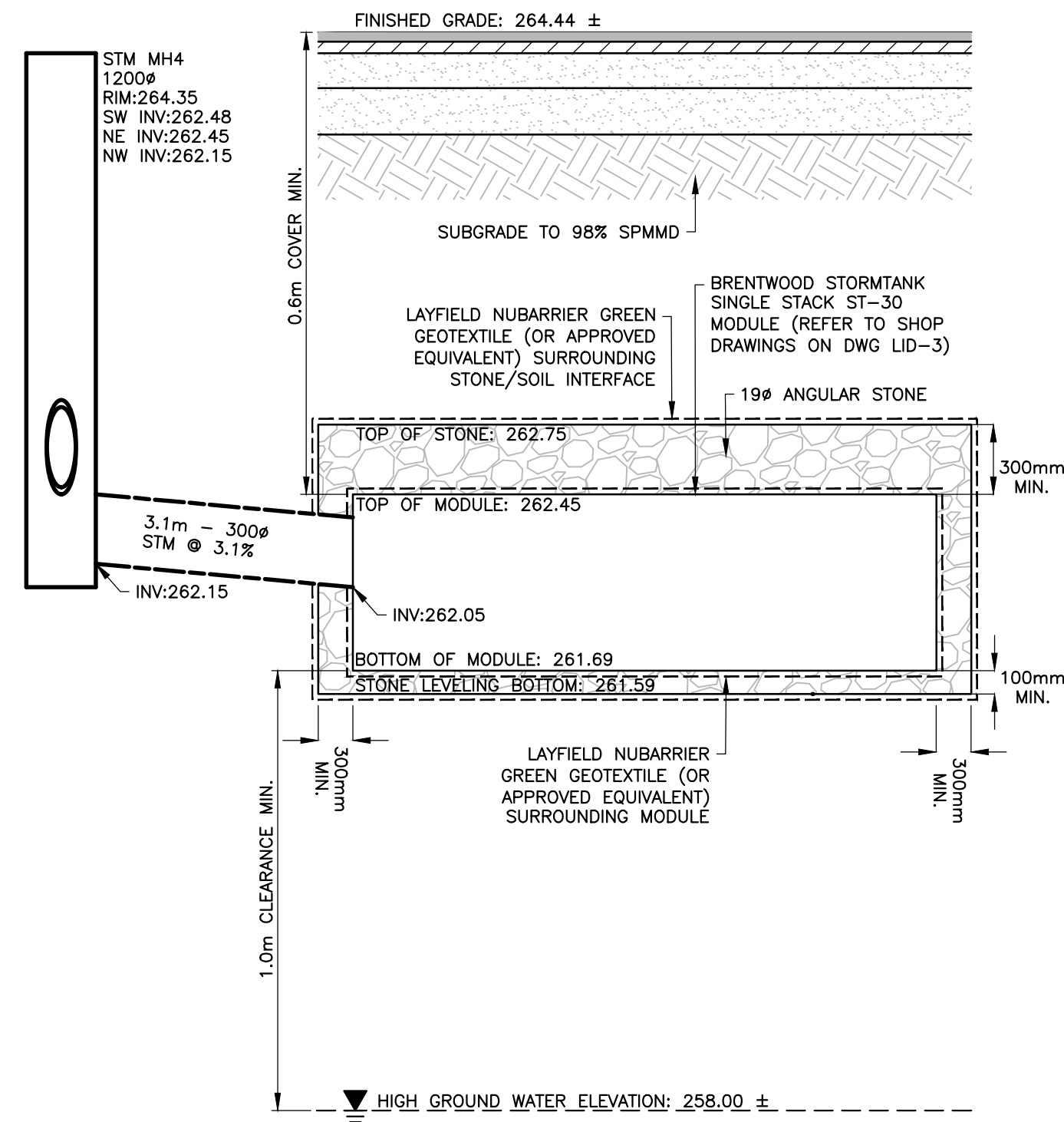
| | | |
|---------------|------------------|------------|
| DESIGN: LC | FILE: 422426 | DWG: LID-1 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:500 | |



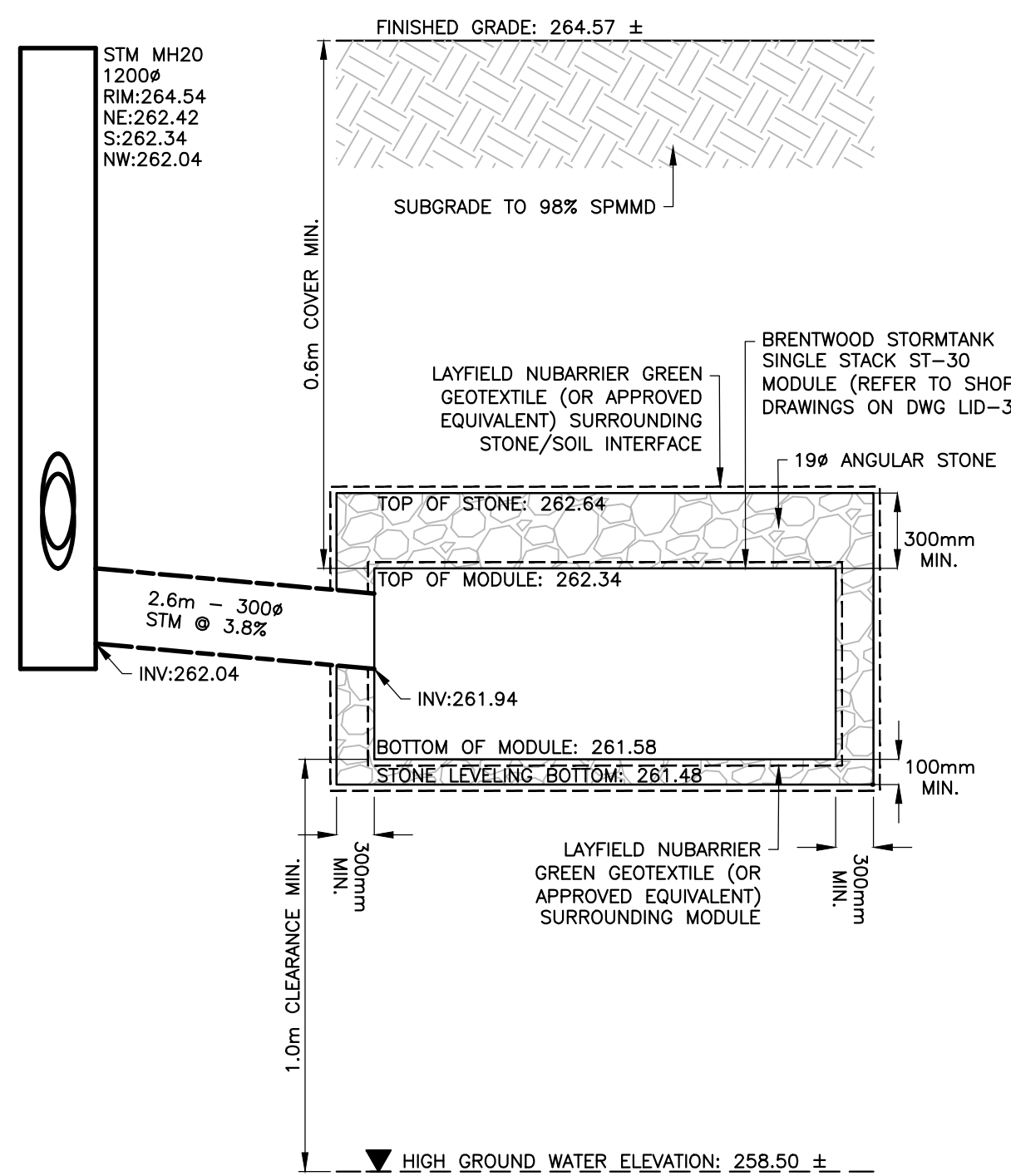
A LOW IMPACT DEVELOPMENT FACILITY #1
LID-2 NTS



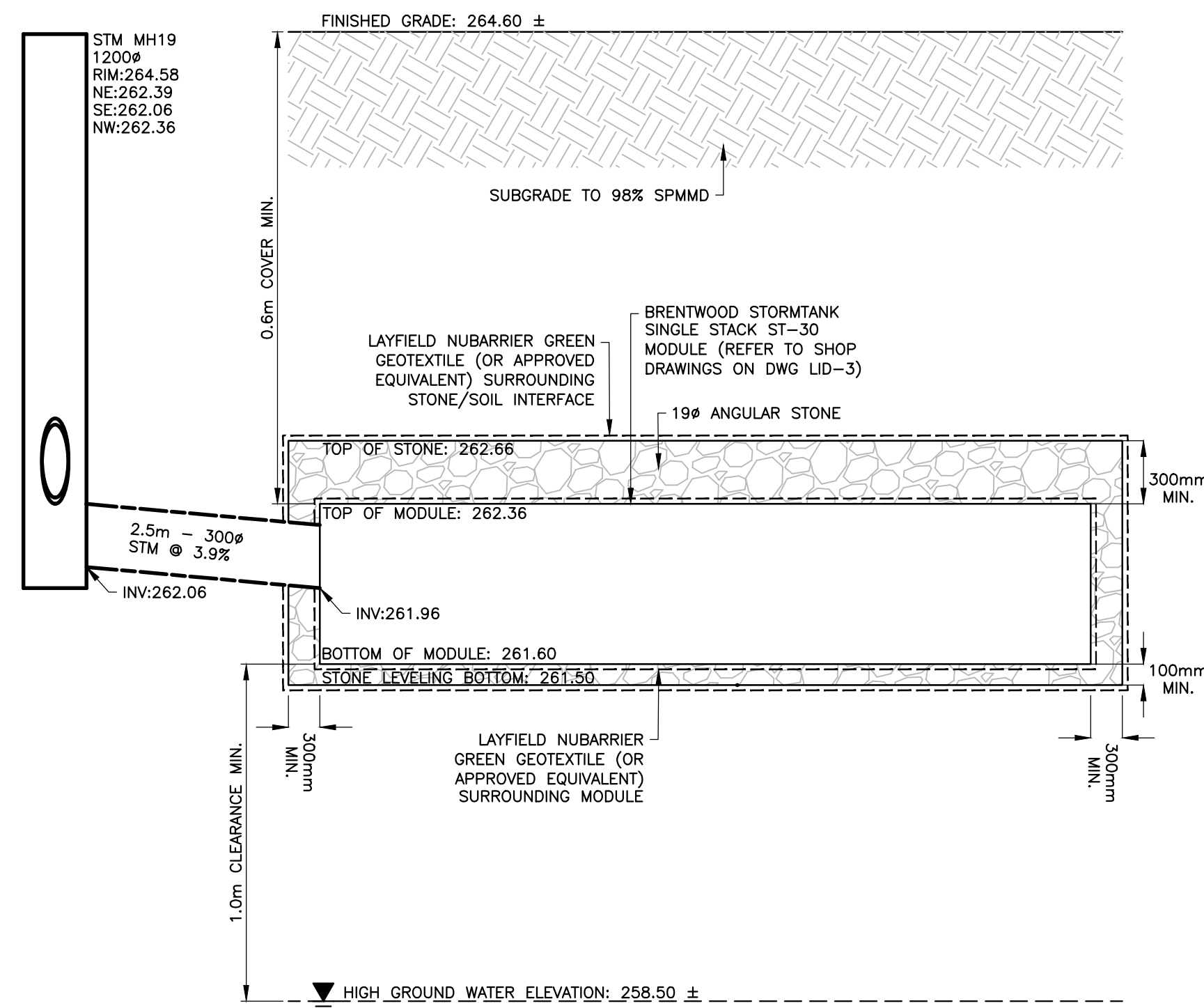
B LOW IMPACT DEVELOPMENT FACILITY #2
LID-2 NTS



C LOW IMPACT DEVELOPMENT FACILITY #3
LID-2 NTS



D LOW IMPACT DEVELOPMENT FACILITY #4
LID-2 NTS



E LOW IMPACT DEVELOPMENT FACILITY #5
LID-2 NTS

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
M.N.P. No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

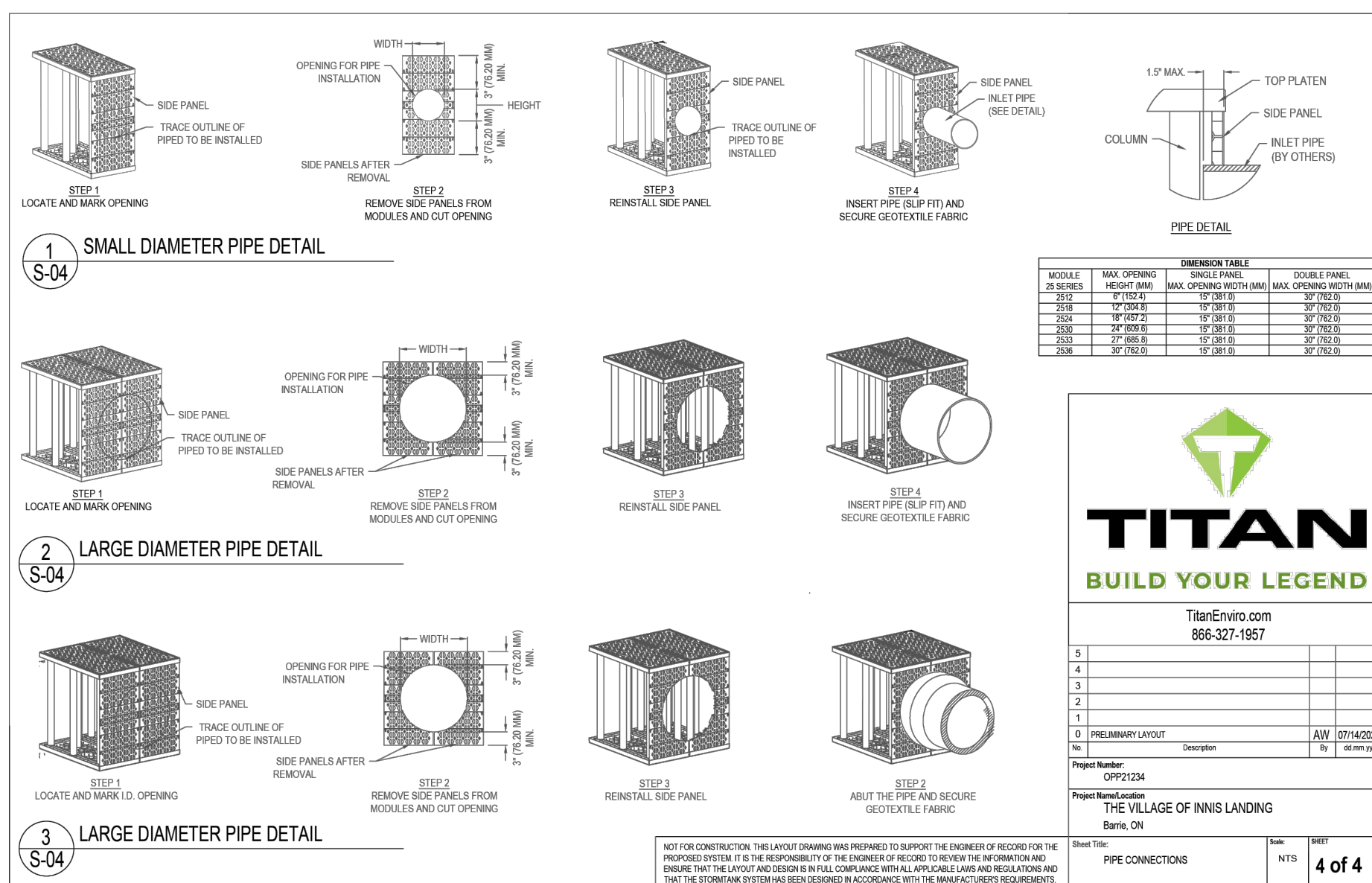
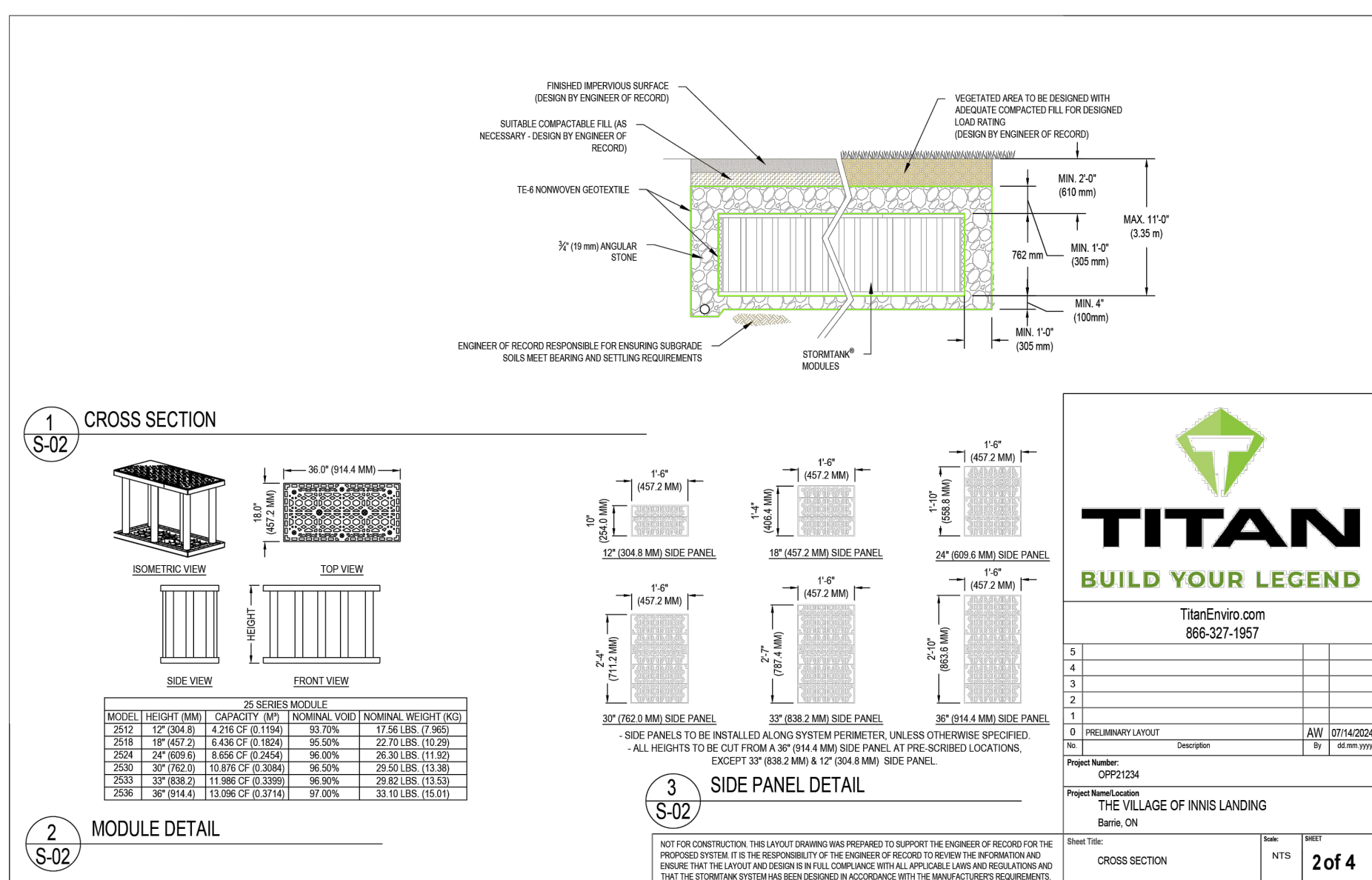
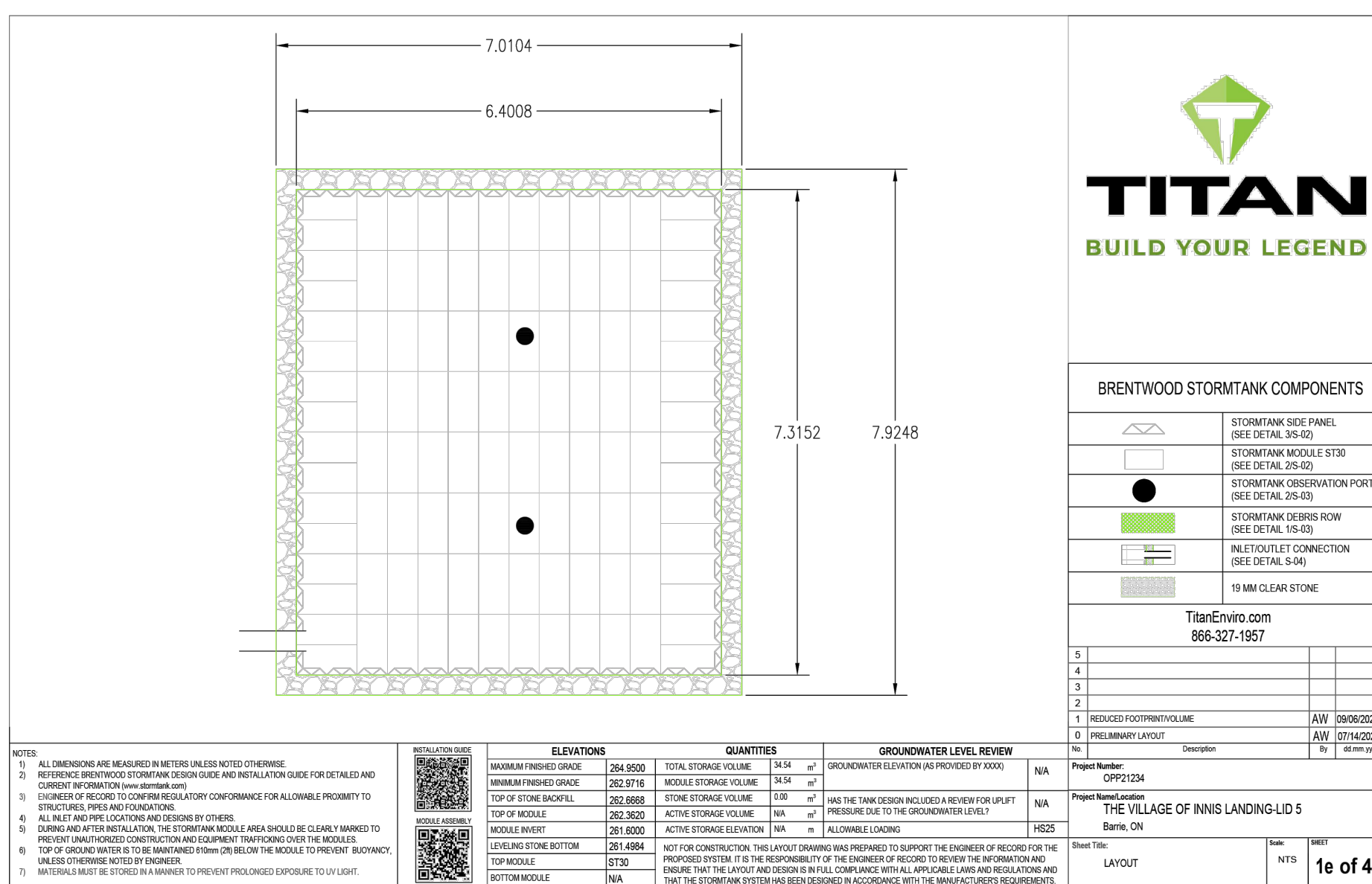
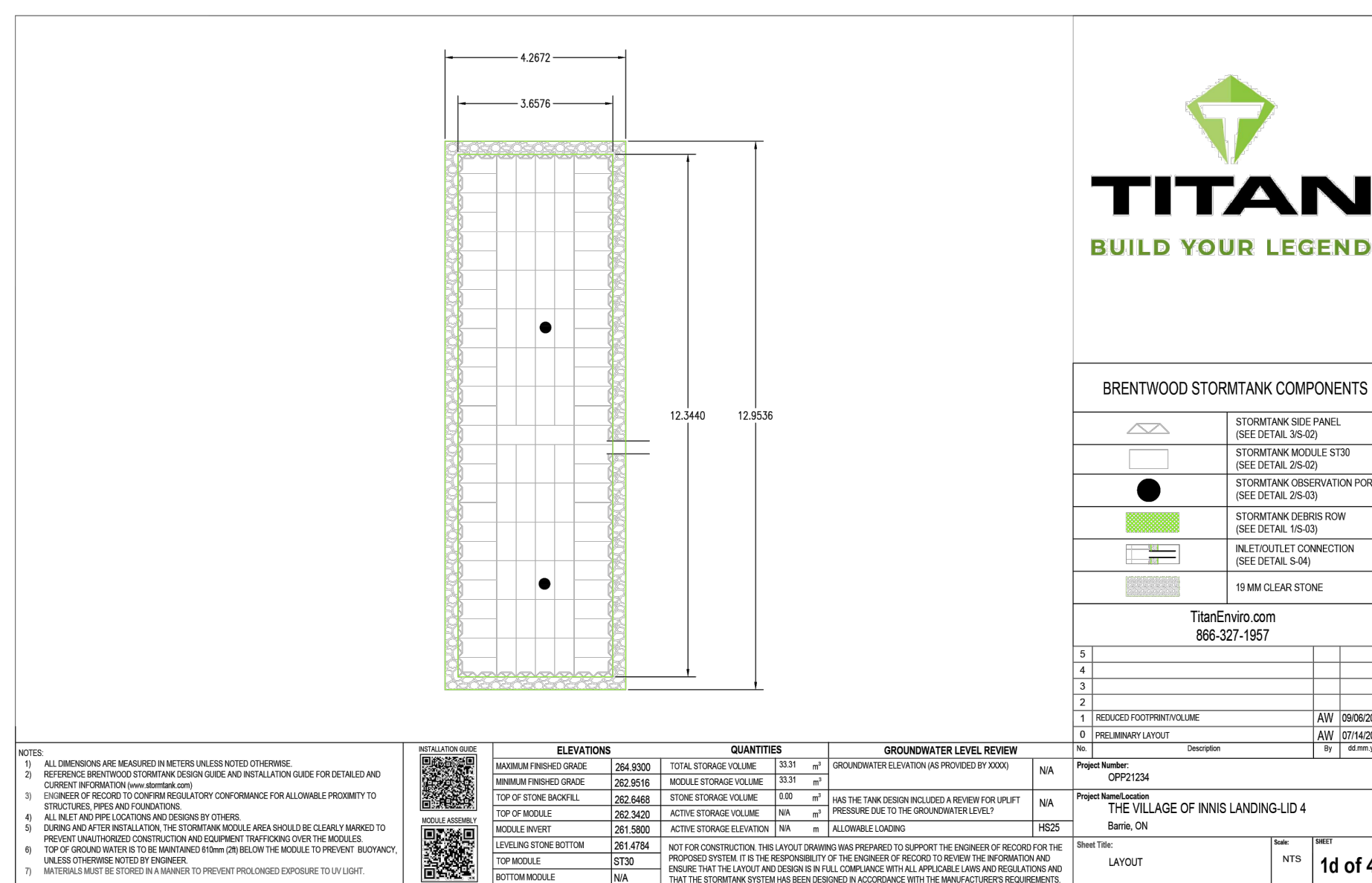
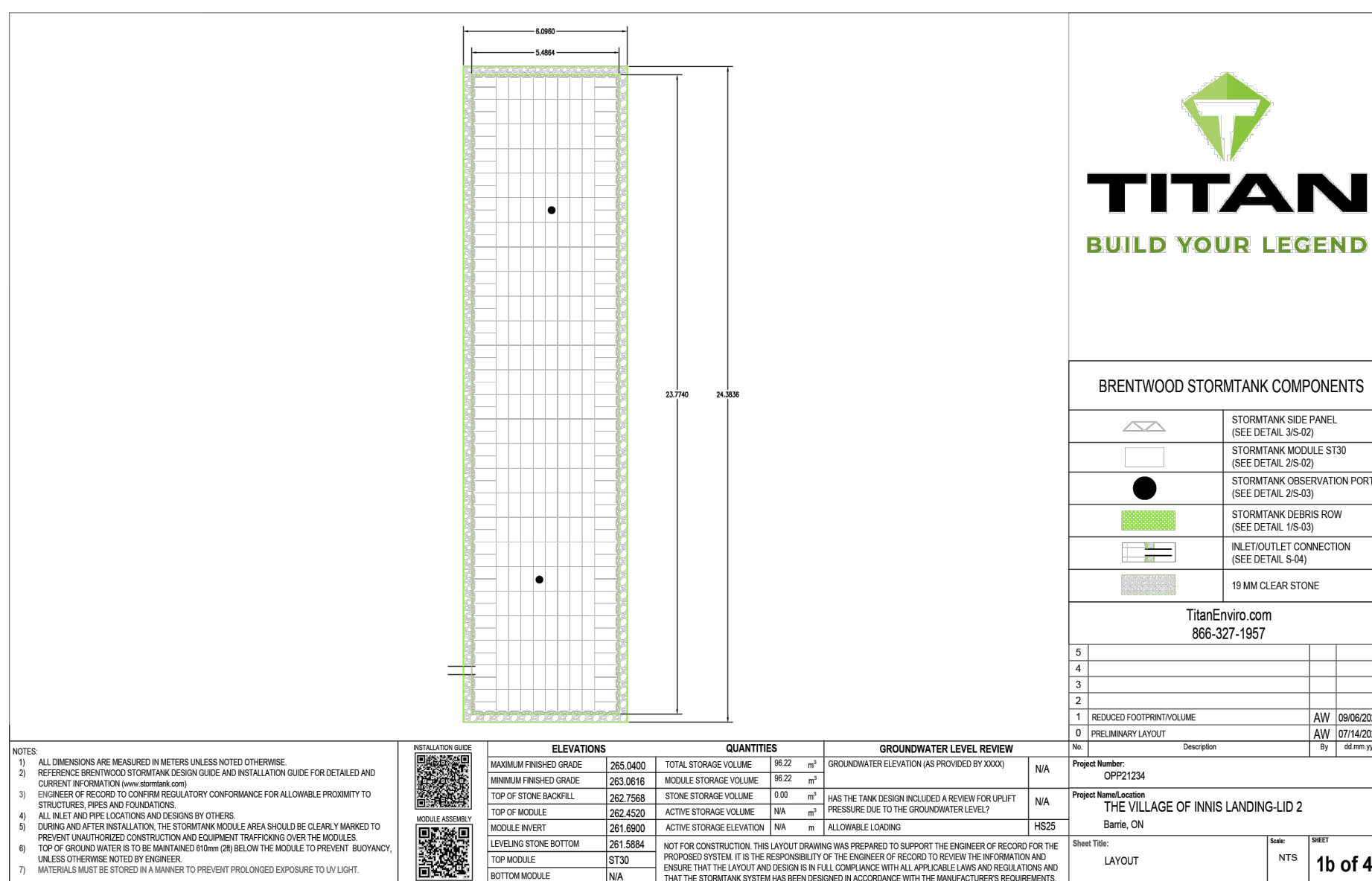



THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE

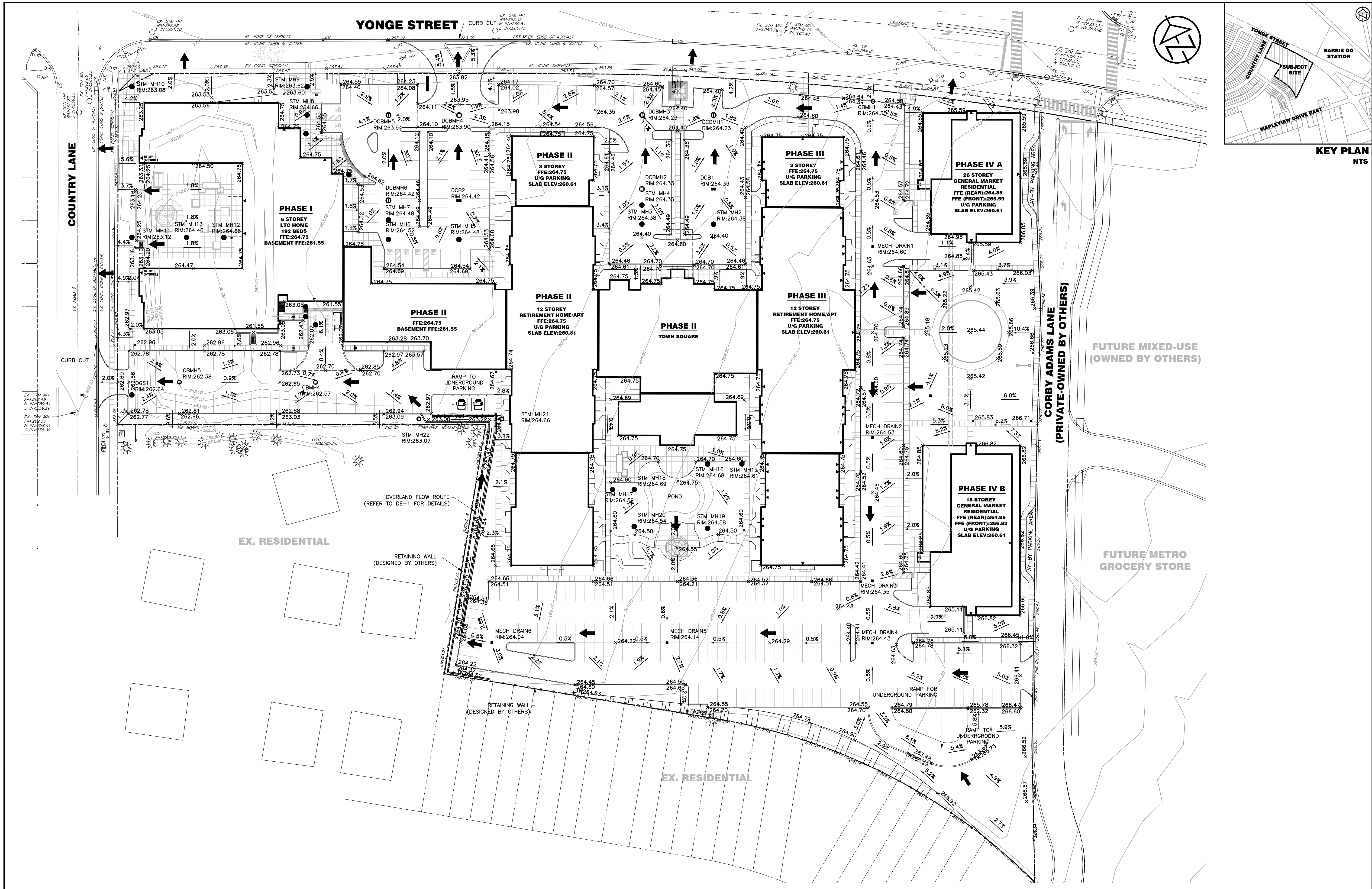
LOW IMPACT DEVELOPMENT FACILITY
CROSS-SECTIONS





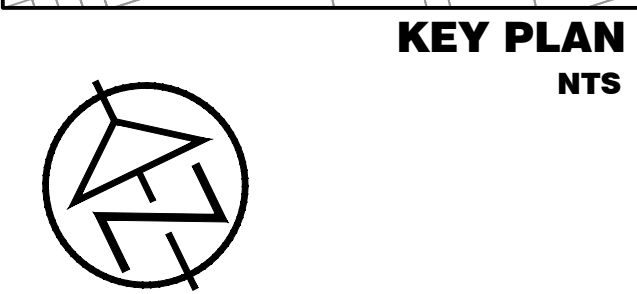
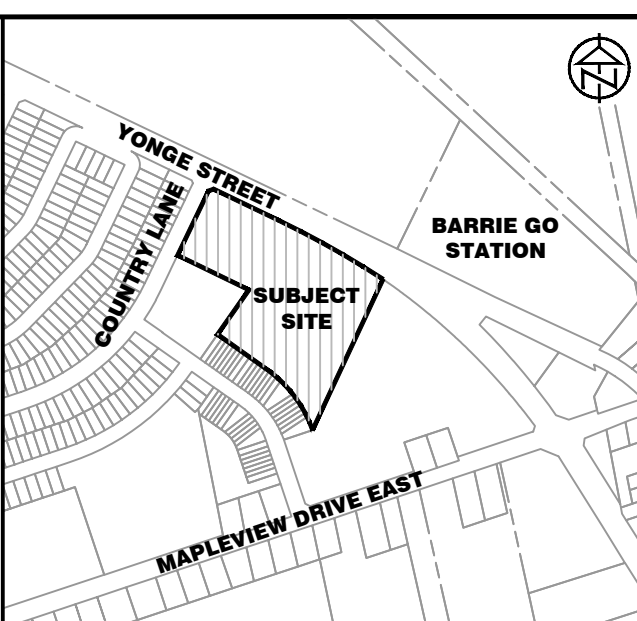
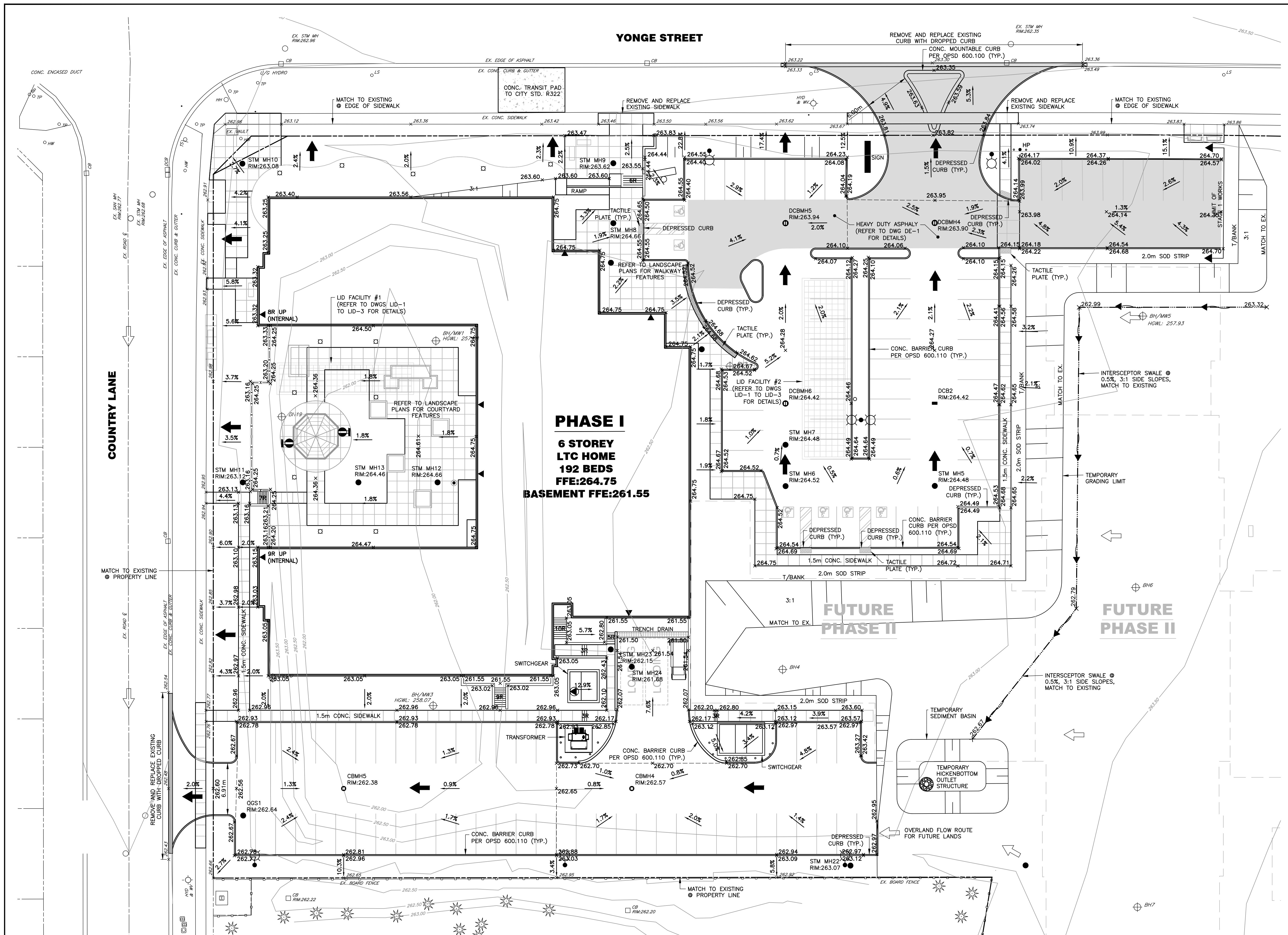
| | | |
|---------------|------------------|-----------------------------|
| DESIGN: LC | FILE: 422426 | DWG: LID-2 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: - | |



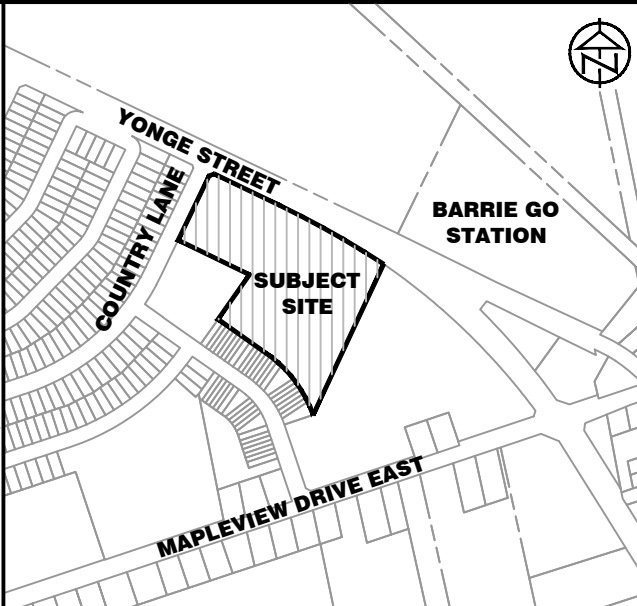
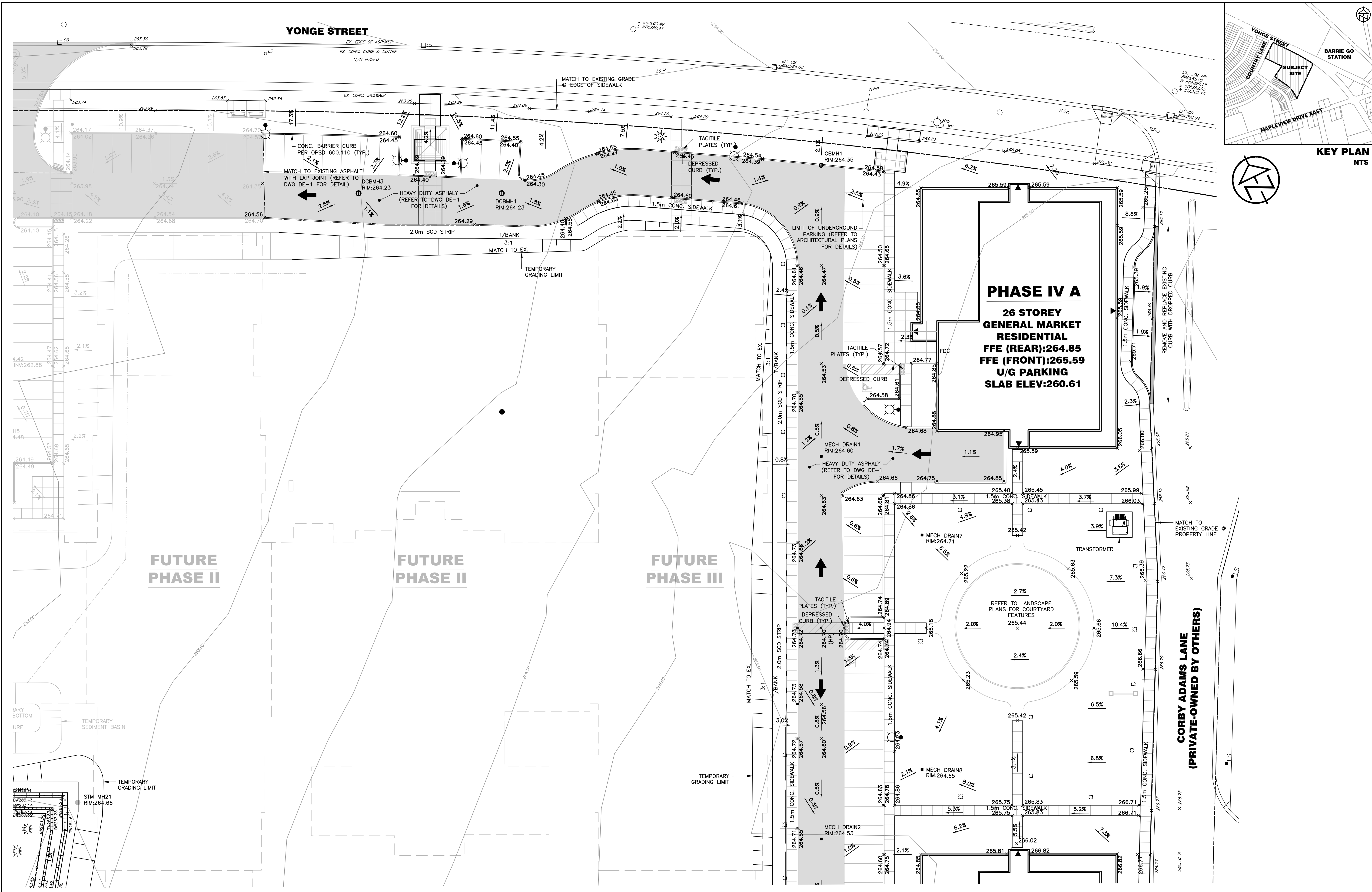
| | | | | | | | | | | | | | | | | | | |
|--|--|--|----------------|--|-----------------------|--|---|---|--|--|--|-------------------------|----------------------------------|---------------|---|-----------------------|---------------|--|
| <div>DISCLAIMER AND COPYRIGHT</div> <div>CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.</div> <div>TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.</div> | <div>DRAWING REFERENCES</div> <div>TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.</div> <div>SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.</div> | <div>BENCHMARK</div> <div>TM44#1 ELEV. 263.49 m</div> <div>MNR No. 0011931U4605 = SOUTH-WEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.</div> | <div>No.</div> | <div>REVISION DESCRIPTION</div> | <div>DATE</div> | <div>ENGINEER STAMP</div> <div></div> | <div>THE VILLAGE OF INNIS LANDING</div> <div>800 YONGE STREET</div> <div>CITY OF BARRIE</div> | <div>LOW IMPACT DEVELOPMENT FACILITY</div> <div>SHOP DRAWINGS</div> | | | <div>DESIGN: LC</div> | <div>FILE: 422426</div> | <div>DWG:</div> <div>LID-3</div> | | | | | |
| | | | <div>1.</div> | <div>SITE PLAN APPROVAL – FIRST SUBMISSION</div> | <div>JULY 17/24</div> | <div>2.</div> | | | | | <div>ISSUED FOR BUILDING PERMIT APPROVAL</div> | <div>AUG. 15/24</div> | | <div>3.</div> | <div>SITE PLAN APPROVAL – SECOND SUBMISSION</div> | <div>SEPT. 6/24</div> | <div>4.</div> | <div>SITE PLAN APPROVAL – THIRD SUBMISSION</div> |





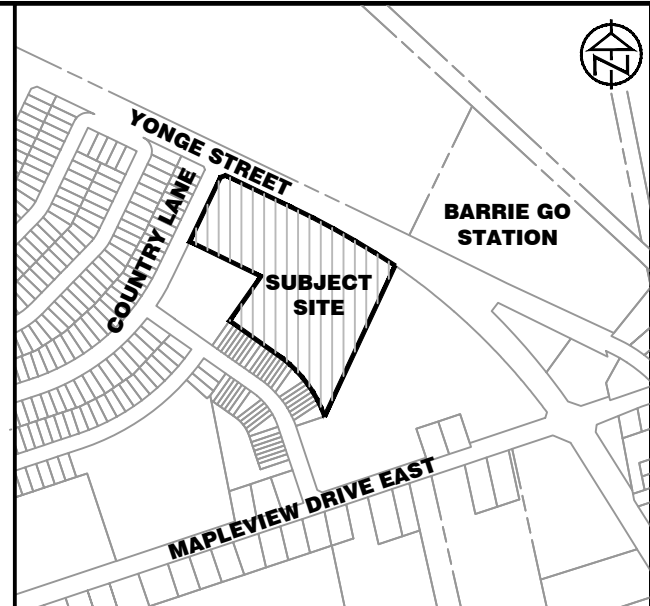
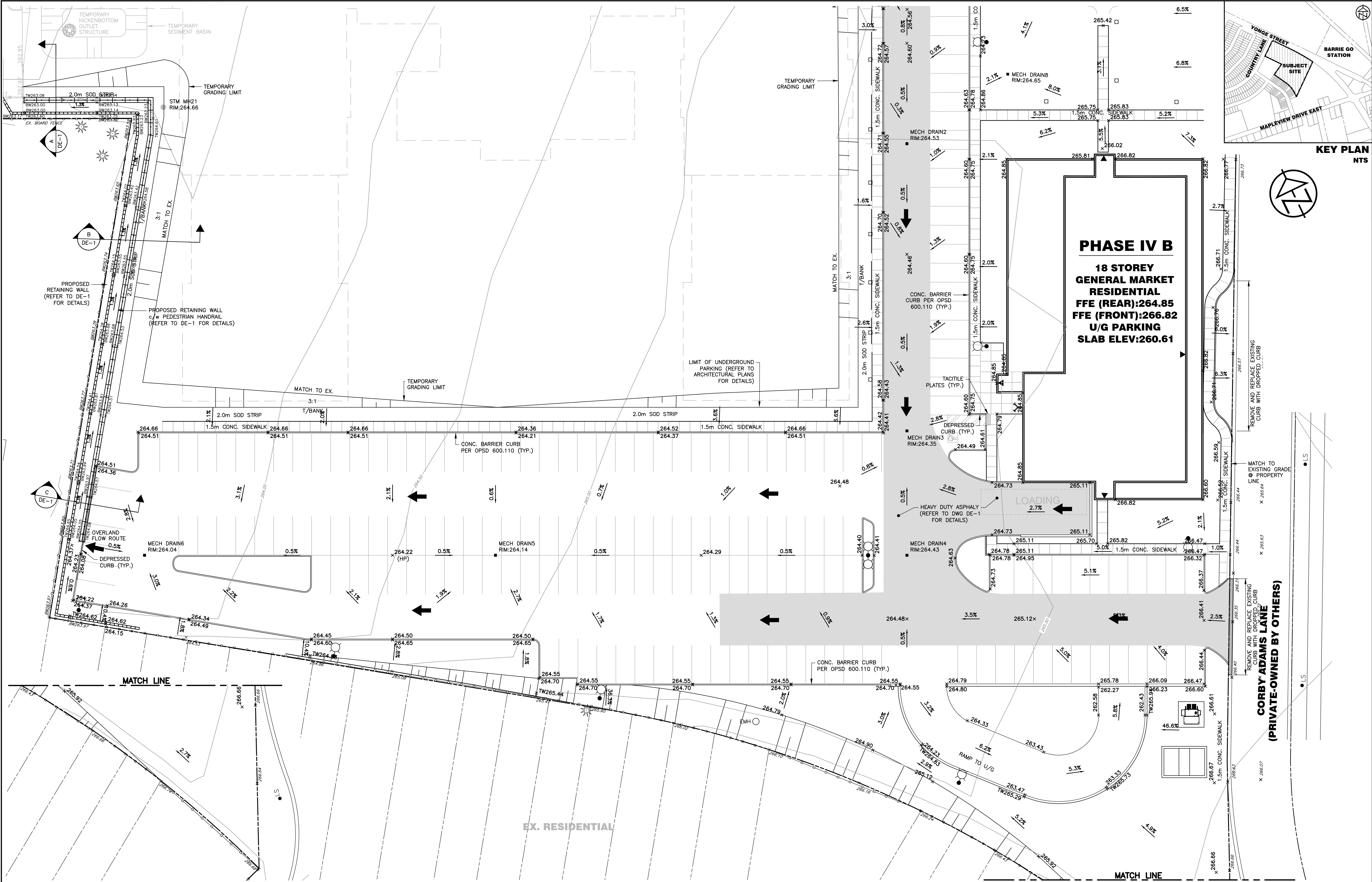
| | | | | | | | | | | |
|--|--|--|---|--|---------------------------------------|--|---|--|-------------------------|-----------------|
| <div>DISCLAIMER AND COPYRIGHT</div> <div>CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.</div> <div>TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.</div> | <div>DRAWING REFERENCES</div> <div>TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.</div> <div>SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.</div> | <div>BENCHMARK</div> <div>TBM#1 ELEV. 263.48 m</div> <div>MNP No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.</div> | <div>No.</div> <div>1.</div> | <div>REVISION DESCRIPTION</div> <div>SITE PLAN APPROVAL - FIRST SUBMISSION</div> | <div>DATE</div> <div>JULY 17/24</div> | <div>ENGINEER STAMP</div> <div></div> | <div>THE VILLAGE OF INNIS LANDING</div> <div>800 YONGE STREET</div> <div>CITY OF BARRIE</div> | <div></div> | | |
| | | | <div>2.</div> | <div>ISSUED FOR BUILDING PERMIT APPROVAL</div> | <div>AUG. 15/24</div> | | | | | |
| | | | <div>3.</div> | <div>SITE PLAN APPROVAL - SECOND SUBMISSION</div> | <div>SEPT. 6/24</div> | | | | | |
| | | | <div>4.</div> | <div>SITE PLAN APPROVAL - THIRD SUBMISSION</div> | <div>OCT. 4/24</div> | | | | | |
| | | <div>5.</div> | <div>SITE PLAN APPROVAL - FOURTH SUBMISSION</div> | <div>OCT. 8/24</div> | | | <div>MASTER GRADING PLAN</div> | <div>DESIGN: LC</div> | <div>FILE: 422426</div> | <div>DWG:</div> |
| | | | | | | <div>DRAWN: LQ/JLM</div> | | <div>DATE: APRIL 2024</div> | <div>MGP-1</div> | |
| | | | | | | <div>CHECK: BFS/NM</div> | | <div>SCALE: 1:500</div> | | |



| <div>DISCLAIMER AND COPYRIGHT</div> <div>CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.</div> <div>TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.</div> | <div>DRAWING REFERENCES</div> <div>TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.</div> <div>SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.</div> | <div>BENCHMARK</div> <div>TBM#1 ELEV. 263.48 m</div> <div>MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.</div> | <table><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr><tr><td>1.</td><td>SITE PLAN APPROVAL - FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL - SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL - THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL - FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></table> | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | <div>ENGINEER STAMP</div> <div></div> | <div>THE VILLAGE OF INNIS LANDING</div> <div>800 YONGE STREET</div> <div>CITY OF BARRIE</div> | <div>TATHAM ENGINEERING</div> |
|--|--|--|---|---------------------------------------|----------------------|---------------|------------------|---------------------------------------|--------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---------------------------------------|---|-------------------------------|
| | | | No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | |
| | | | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | |
| <div>SITE GRADING PLAN</div> <div>STAGE 1</div> | | <table><tr><td>DESIGN: LC</td><td>FILE: 422426</td><td rowspan="3">DWG: GP-1</td></tr><tr><td>DRAWN: LQ/JLM</td><td>DATE: APRIL 2024</td></tr><tr><td>CHECK: BFS/NM</td><td>SCALE: 1:250</td></tr></table> | DESIGN: LC | FILE: 422426 | DWG: GP-1 | DRAWN: LQ/JLM | DATE: APRIL 2024 | CHECK: BFS/NM | SCALE: 1:250 | | | | | | | | | | | | | | | |
| DESIGN: LC | FILE: 422426 | DWG: GP-1 | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | | | | | | | | | | | | | | | | | | | | | | | |
| CHECK: BFS/NM | SCALE: 1:250 | | | | | | | | | | | | | | | | | | | | | | | |



| DISCLAIMER AND COPYRIGHT CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED. | | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | | BENCHMARK TBM#1 ELEV. 263.48 m MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | | <table><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr><tr><td>1.</td><td>SITE PLAN APPROVAL - FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL - SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL - THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL - FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></table> | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | ENGINEER STAMP  | | THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | |  | |
|--|--|--|--|---|--|---|-----|--|------|--|---------------------------------------|-----------------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|--|--|---|--|---|--|
| No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | SITE GRADING PLAN STAGE 2 SHEET 1 OF 2 | | DESIGN: LC DRAWN: LQ/JLM CHECK: BFS/NM | | FILE: 422426 DATE: APRIL 2024 SCALE: 1:250 | | DWG: GP-2.1 | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

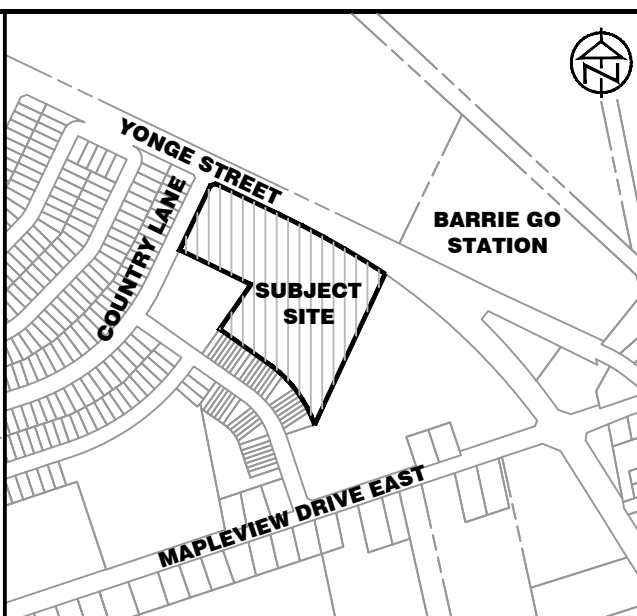
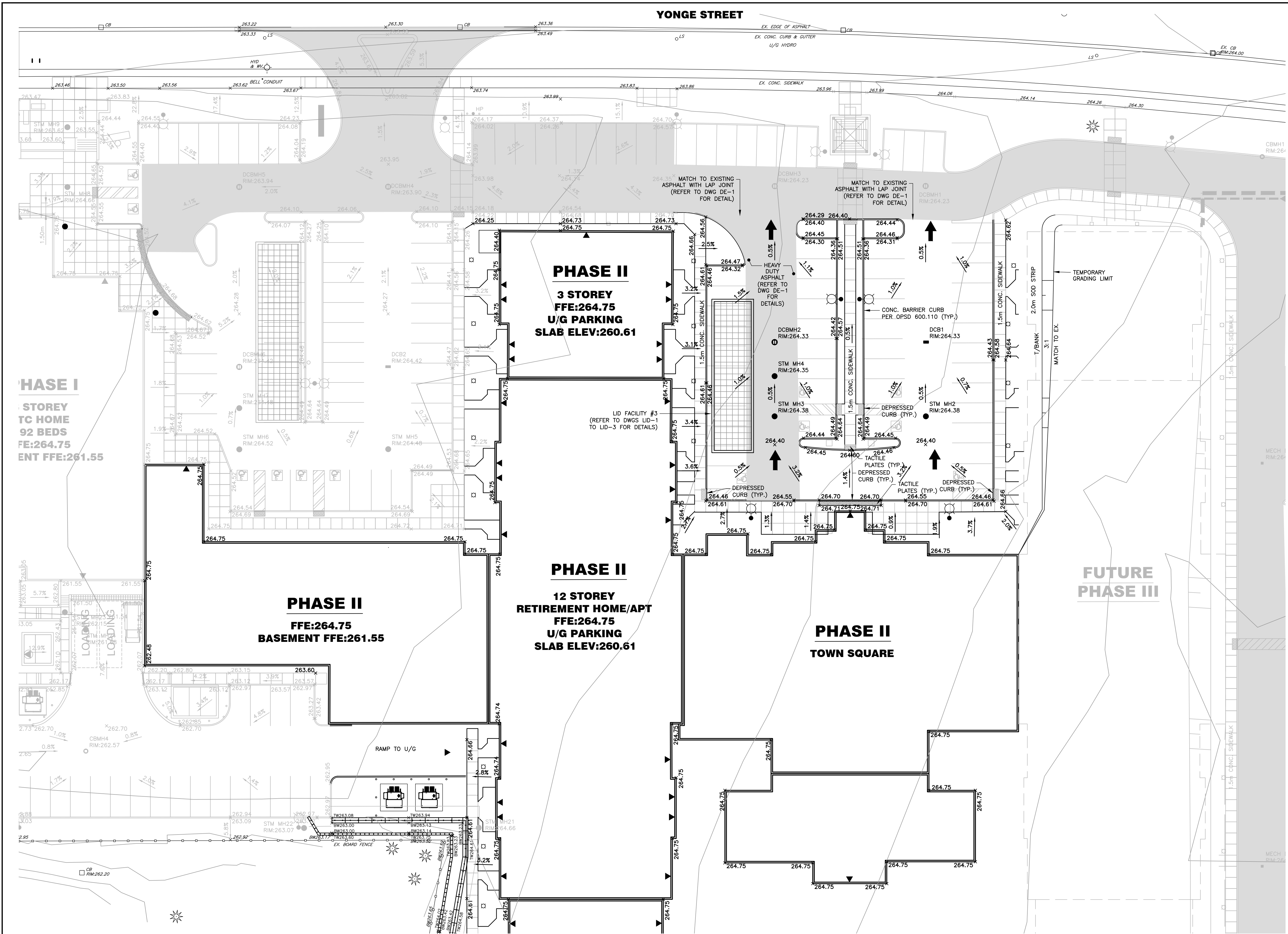
DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 001931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

| | | | |
|---|--|--|-----------------------|
| THE VILLAGE OF INNIS LANDING 800 YONGE STREET CITY OF BARRIE | | | |
| SITE GRADING PLAN STAGE 2 SHEET 2 OF 2 | | DESIGN: LC FILE: 422426 DRAWN: LQ/JLM DATE: APRIL 2024 CHECK: BFS/NM SCALE: 1:250 | DWG: GP-2.2 |



KEY PLAN
NTS

DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM#1 ELEV. 263.48 m
MNR No. 0011931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

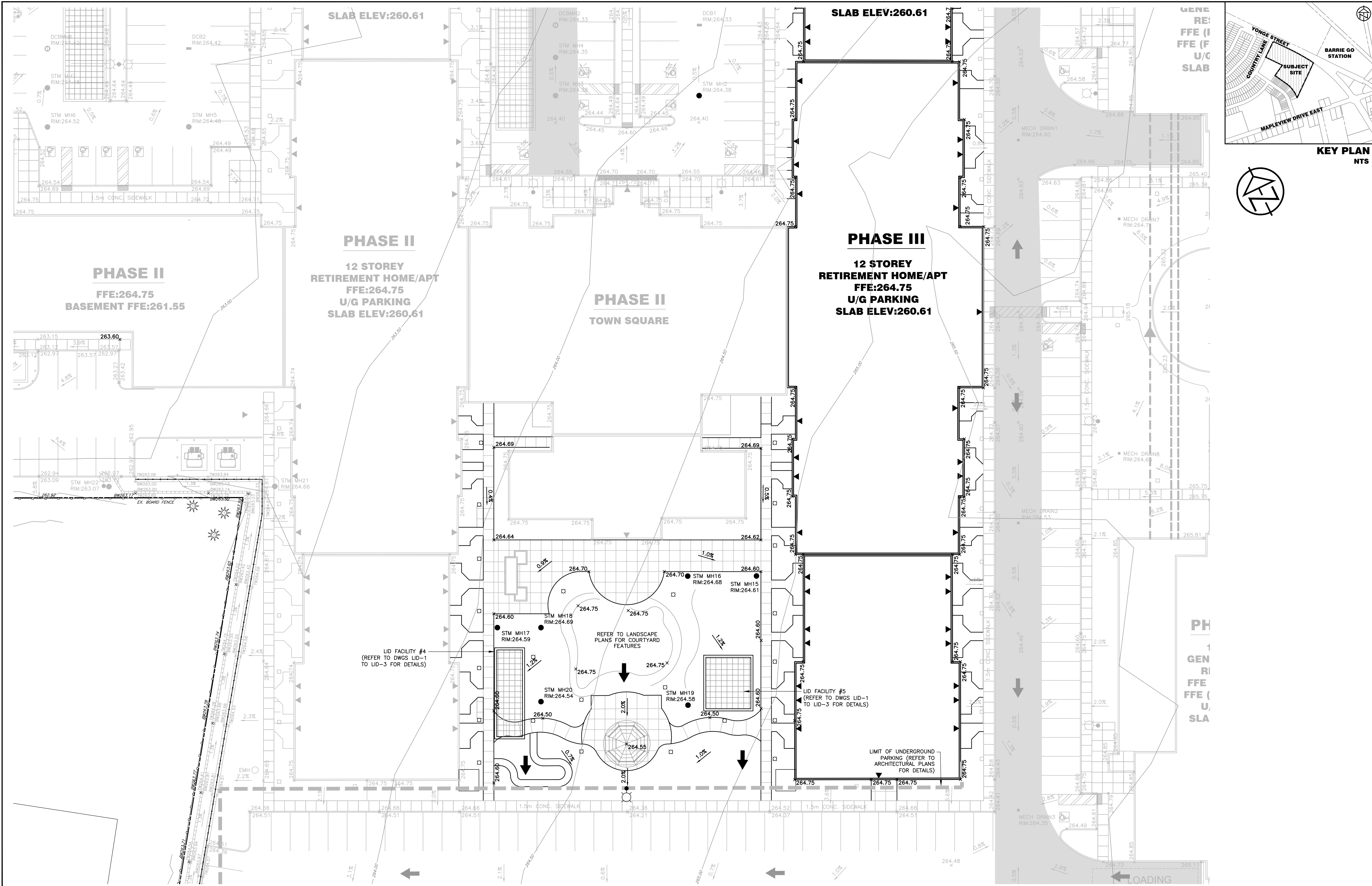
K.A. MILLINGTON
100190121
Oct. 8/24
PROVINCE OF ONTARIO

**THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE**

**SITE GRADING PLAN
STAGE 3**

TATHAM ENGINEERING

| | | |
|---------------|------------------|---------------------|
| DESIGN: LC | FILE: 422426 | DWG: GP-3 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:250 | |



DISCLAIMER AND COPYRIGHT
CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.
TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES
TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.
SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK
TBM #1 ELEV. 263.48 m
MNR No. 001931U4605 - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

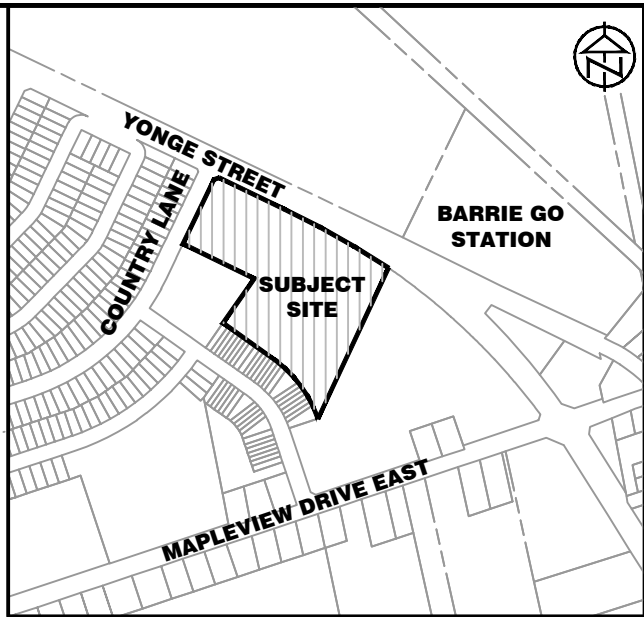
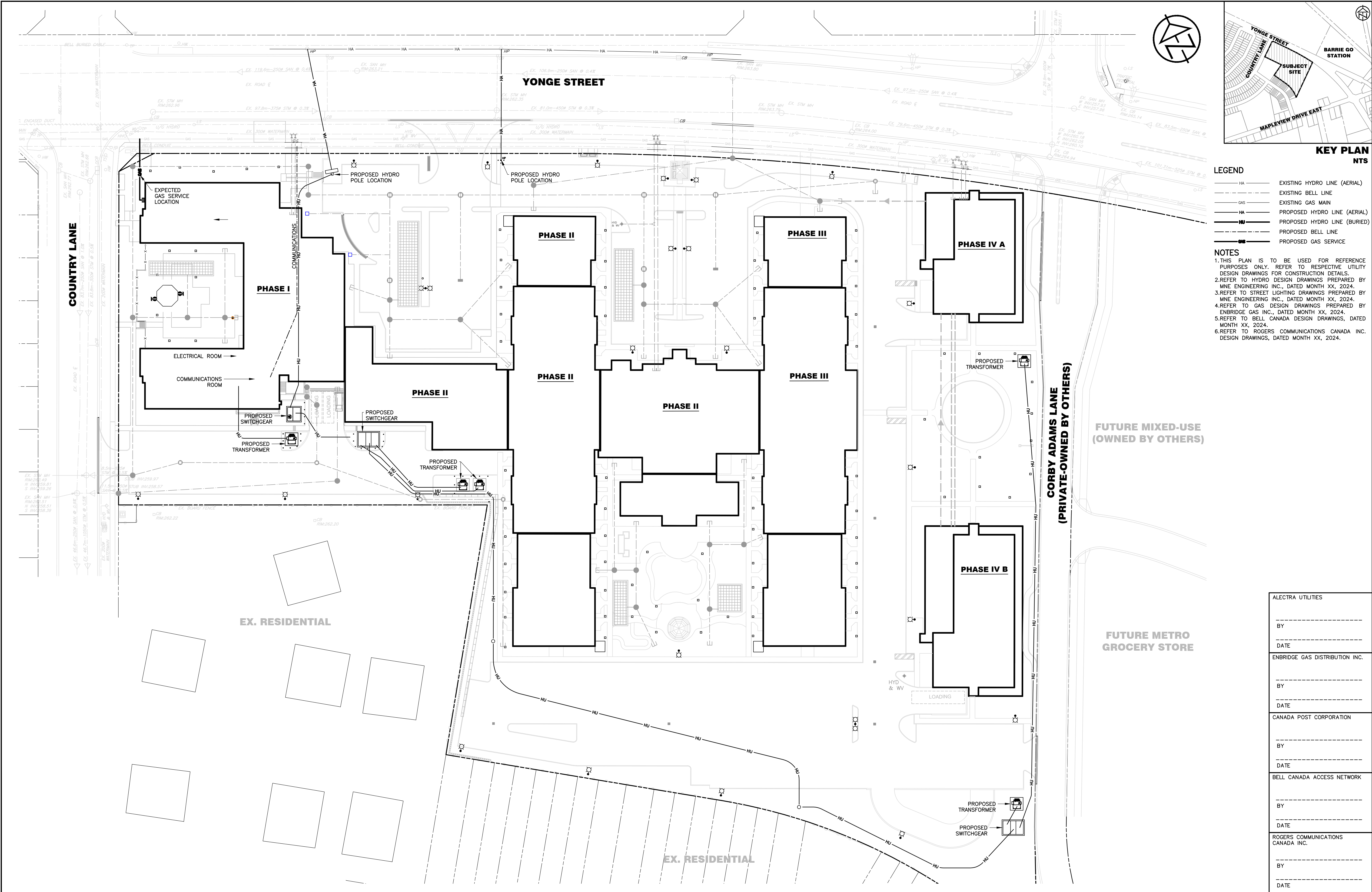
ENGINEER STAMP

**THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE**

**SITE GRADING PLAN
STAGE 4**

TATHAM ENGINEERING

| | | |
|---------------|------------------|------------------|
| DESIGN: LC | FILE: 422426 | DWG: GP-4 |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | |
| CHECK: BFS/NM | SCALE: 1:250 | |



KEY PLAN
NTS

- LEGEND
- HA EXISTING HYDRO LINE (AERIAL)
 - EXISTING BELL LINE
 - EXISTING GAS MAIN
 - HA PROPOSED HYDRO LINE (AERIAL)
 - PROPOSED HYDRO LINE (BURIED)
 - PROPOSED BELL LINE
 - PROPOSED GAS SERVICE

- NOTES
1. THIS PLAN IS TO BE USED FOR REFERENCE PURPOSES ONLY. REFER TO RESPECTIVE UTILITY DESIGN DRAWINGS FOR CONSTRUCTION DETAILS.
 2. REFER TO HYDRO DESIGN DRAWINGS PREPARED BY MNE ENGINEERING INC., DATED MONTH XX, 2024.
 3. REFER TO STREET LIGHTING DRAWINGS PREPARED BY MNE ENGINEERING INC., DATED MONTH XX, 2024.
 4. REFER TO GAS DESIGN DRAWINGS PREPARED BY ENBRIDGE GAS INC., DATED MONTH XX, 2024.
 5. REFER TO BELL CANADA DESIGN DRAWINGS, DATED MONTH XX, 2024.
 6. REFER TO ROGERS COMMUNICATIONS CANADA INC. DESIGN DRAWINGS, DATED MONTH XX, 2024.

| |
|-----------------------------------|
| ALECTRA UTILITIES |
| BY _____ |
| DATE _____ |
| ENBRIDGE GAS DISTRIBUTION INC. |
| BY _____ |
| DATE _____ |
| CANADA POST CORPORATION |
| BY _____ |
| DATE _____ |
| BELL CANADA ACCESS NETWORK |
| BY _____ |
| DATE _____ |
| ROGERS COMMUNICATIONS CANADA INC. |
| BY _____ |
| DATE _____ |

| <p>DISCLAIMER AND COPYRIGHT</p> <p>CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.</p> <p>TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.</p> | <p>DRAWING REFERENCES</p> <p>TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.</p> <p>SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.</p> | <p>BENCHMARK</p> <p>TBM#1 ELEV. 263.48 m</p> <p>MNR No. 001193IU460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.</p> | <table><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr><tr><td>1.</td><td>SITE PLAN APPROVAL - FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL - SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL - THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL - FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></table> | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | <div><div>ENGINEER STAMP</div><div></div></div> | <div><div><div>THE VILLAGE OF INNIS LANDING</div><div>800 YONGE STREET</div><div>CITY OF BARRIE</div></div><div><div>COMPOSITE UTILITY PLAN</div></div></div> | <div><div><div>DESIGN: LC</div><div>DRAWN: LQ/JLM</div><div>CHECK: BFS/NM</div></div><div><div>FILE: 422426</div><div>DATE: APRIL 2024</div><div>SCALE: 1:500</div></div><div><div>DWG:</div><div>UT-1</div></div></div> |
|---|---|---|---|--|----------------------|------|----|---------------------------------------|------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---|---|--|
| | | | No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | |
| | | | 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | |
| | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | |
| | | | 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | |

GENERAL

- A. ALL WORK TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT CITY OF BARRIE ENGINEERING STANDARDS AND ONTARIO PROVINCIAL STANDARD SPECIFICATIONS AND DRAWINGS. WHERE CONFLICT OCCURS, CITY OF BARRIE ENGINEERING STANDARDS TO GOVERN.
- B. A ROAD OCCUPANCY PERMIT SHALL BE OBTAINED FROM THE DEVELOPMENT SERVICES ROWA DEPARTMENT PRIOR TO THE COMMENCEMENT OF WORK WITHIN THE CITY ROAD ALLOWANCE.
- C. A SITE ALTERATION PERMIT IS REQUIRED FROM THE DEVELOPMENT SERVICES APPROVALS DEPARTMENT PRIOR TO COMMENCEMENT OF ANY EARTHWORKS ON SITE.
- D. UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE IN MILLIMETERS AND ALL ELEVATIONS ARE IN METERS.
- E. THE OWNER'S ENGINEER SHALL PROVIDE BENCHMARK ELEVATIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DETAILED LAYOUT OF THE WORK.
- F. ALL PROPERTY BARS TO BE PRESERVED AND REPLACED BY OLS AT CONTRACTOR'S EXPENSE IF REMOVED DURING CONSTRUCTION.
- G. THE CONTRACTOR SHALL MAKE ARRANGEMENTS FOR THE SUPPLY OF TEMPORARY WATER AND POWER.
- H. DEWATERING TO BE CARRIED OUT IN ACCORDANCE WITH OPSS.MUNI 517 AND OPSS.MUNI 518. MAINTAIN ALL TRENCHES IN A DRY CONDITION.
- I. ALL ENGINE DRIVEN PUMPS TO BE ADEQUATELY SILENCED, SUITABLE FOR OPERATION IN A RESIDENTIAL DISTRICT.
- J. GENERAL INSTALLATION AND TESTING OF SEWERS, WATERMAIN AND APPURTENANCES TO BE IN ACCORDANCE WITH MUNICIPAL STANDARDS AND WITH OPSS 407, 408, 409 (CCTV), OPSS MUNI.410, OPSS.MUNI 421, AND OPSS.MUNI 441 AND ALL SPECIFICATIONS REFERENCED WITHIN THESE SECTIONS.
- K. ALL MAINTENANCE HOLES ARE 1,200 mm DIAMETER, UNLESS OTHERWISE SPECIFIED.
- L. PIPE SUPPORT AT ALL STRUCTURES TO OPSS 708.020.
- M. MAINTENANCE HOLE AND CATCH BASIN FRAMES AND GRATES TO BE SET TO BASE COURSE ASPHALT ELEVATION IN ACCORDANCE WITH S606. FRAME AND GRATES TO BE RAISED TO FINISHED GRADE PRIOR TO THE PLACEMENT OF SURFACE COURSE ASPHALT USING CONCRETE ADJUSTMENT UNITS. ADJUSTMENT UNITS MUST BE CERTIFIED TO MEET ALL PERTINENT OPS, CSA, ASTM AND MTO-DSM LISTS, OR OTHER INDUSTRY GUIDELINES FOR MATERIALS, PERFORMANCE AND USE AS APPLICABLE. MAXIMUM COMBINED HEIGHT OF ADJUSTMENT UNITS SHALL BE 300 mm.
- N. ADJUSTMENT UNITS AND JOINTS SHALL BE SEALED AND PARGED IN COMPLIANCE WITH MANUFACTURER'S SPECIFICATIONS.
- O. MORTAR SHALL BE USED FOR LEVELING PRECAST UNITS ONLY. THE THICKNESS OF MORTAR SHALL BE 10 mm TO FILL ALL VOIDS CREATED BY IRREGULARITIES IN THE PRECAST UNITS TO ENSURE AN EVEN SURFACE ONLY.
- P. GRADE AND CROSSFALL ADJUSTMENT OF MAINTENANCE HOLE AND CATCH BASIN FRAMES SHALL BE MADE WITH USING PRODUCTS SPECIFICALLY MANUFACTURED FOR THAT PURPOSE.
- Q. TRENCH BACKFILL TO BE SELECT NATIVE MATERIAL AS APPROVED BY ENGINEER, OR IMPORTED SELECT SUBGRADE MATERIAL TO OPSS 1010. BACKFILL TO BE PLACED IN MAXIMUM 200 mm THICK LIFTS (OR AS OTHERWISE DIRECTED BY THE GEOTECHNICAL CONSULTANT) AND COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S STANDARD PROCTOR MAXIMUM DRY DENSITY (SPMDD).
- R. PIPE EMBEDMENT TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD. BACKFILL AND EMBEDMENT TO OPSS 802.010 (FLEXIBLE PIPE), GRANULAR 'A' EMBEDMENT OR OPSS 802.031 (RIGID PIPE) CLASS 'B', GRANULAR 'A' BEDDING, GRANULAR 'B' COVER (MAX. AGGREGATE SIZE 25 mm). MINIMUM BEDDING DEPTH 150 mm. MINIMUM COVER DEPTH 300 mm ON ALL PIPES, WHERE EXCESSIVELY WET OR POOR SUBGRADE IS ENCOUNTERED AT THE INVERT LEVEL, IT MAY BE NECESSARY TO INCREASE THE BEDDING THICKNESS.
- S. CLEAR STONE COMPLETELY WRAPPED IN FILTER FABRIC MAY BE SUBSTITUTED FOR EMBEDMENT MATERIAL IF APPROVED BY THE ENGINEER.
- T. ALL EROSION AND SEDIMENT CONTROL DEVICES ARE TO BE IN PLACE PRIOR TO THE COMMENCEMENT OF CONSTRUCTION AND SHALL REMAIN IN PLACE AND BE MAINTAINED BY THE CONTRACTOR UNTIL CONSTRUCTION IS COMPLETE AND THE GRASS HAS ESTABLISHED GROWTH, SUBJECT TO THE APPROVAL OF THE CITY.
- U. DISTURBED AREAS TO BE REINSTATED TO PREVIOUS CONDITION OR BETTER.
- V. REINSTATEMENT OF ALL DISTURBED BOULEVARDS AND DITCHES TO INCLUDE REGRAIDING, PLACEMENT OF MINIMUM 200 mm TOPSOIL AND SOD IN ACCORDANCE WITH OPSS 802, OPSS 803 AND OPSS.MUNI 804. SOD TO BE STAKED WHERE NECESSARY TO AVOID MOVEMENT.
- W. DURING CONSTRUCTION TRAFFIC MARKERS AND SIGNS ARE TO BE INSTALLED IN ACCORDANCE WITH THE MTO TRAFFIC CONTROL MANUAL BOOK 7.
- X. LOCATIONS OF EXISTING UTILITIES ARE NOT GUARANTEED. THE CONTRACTOR IS RESPONSIBLE FOR THE PRESERVATION OF ALL EXISTING INFRASTRUCTURE/FACILITIES AS WELL AS NOTIFYING ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO COMMENCING WORK AND COORDINATE CONSTRUCTION ACCORDINGLY.
- Y. ALL ON-SITE MATERIAL SHALL BE PROPERLY STORED, SECURED, MONITORED AND COVERED AS REQUIRED. SPECIFICALLY, ALL PVC PIPE SHALL BE COVERED WHILE STORED ON-SITE.

ROADS

- A. SUBGRADE AND BOULEVARD MATERIAL TO BE COMPACTED TO A DRY DENSITY OF AT LEAST 95% OF THE MATERIAL'S SPMDD. SUBGRADE TO BE PROOF ROLLED AND CERTIFIED PRIOR TO PLACING GRANULAR 'B'.
- B. GRANULAR 'A' AND 'B' TO BE COMPACTED TO A DRY DENSITY OF 100% OF THE MATERIAL'S RESPECTIVE SPMDD.
- C. ASPHALT TO BE COMPACTED TO A MINIMUM OF 97% OF THE MARSHALL BULK DENSITY.
- D. ROADWAYS TO BE CONSTRUCTED IN ACCORDANCE WITH THE DETAILS ON THIS PLAN.
- E. JOINTS WITH EXISTING ASPHALT TO BE SAW CUT STRAIGHT PRIOR TO PLACING NEW ASPHALT. WHERE EXISTING ASPHALT IS THICKER THAN 75 mm, A 300 mm WIDE BY 40 mm DEEP LAP JOINT SHALL BE GROUND INTO EXISTING ASPHALT PRIOR TO THE PLACEMENT OF SURFACE COURSE ASPHALT.
- F. ALL GRANULAR AND ASPHALT MATERIAL TO BE PLACED IN ACCORDANCE WITH OPSS 310 AND OPSS.MUNI 314.
- G. TACK COAT TO BE APPLIED AT THE DIRECTION OF THE ENGINEER.
- H. CONCRETE CURB AND CUTTER TO OPSS 600.040 AND CONCRETE BARRIER CURB TO OPSS 600.110 AND OPSS.MUNI 353. CURB DEPRESSIONS AT SIDEWALK CROSSINGS IN ACCORDANCE WITH R318. CURB DEPRESSIONS AT DRIVEWAYS IN ACCORDANCE WITH R319.
- I. ALL GRANULAR AND ASPHALT MATERIAL TO BE PLACED IN ACCORDANCE WITH OPSS 608.010.
- J. SUBDRAINS TO BE PERFORATED, COMPLETE WITH FILTER SOCK, OTHER THAN THE 2.0 m SECTION IMMEDIATELY UPSTREAM OF ALL STRUCTURES WHICH SHALL BE NON-PERFORATED.

STORM SEWER

- A. STORM MAINTENANCE HOLES AND CATCH BASIN MAINTENANCE HOLES IN ACCORDANCE WITH OPSS 701.010, 701.011 AND 701.012.
- B. MAINTENANCE HOLES TO BE BENCHMARKED IN ACCORDANCE WITH OPSS 701.021. MINIMUM BENCHMARKING WIDTH SHALL BE 230 mm. CATCH BASIN MAINTENANCE HOLES TO HAVE A 900 mm SUMP IN ACCORDANCE WITH OPSS 701.010.
- C. MAINTENANCE HOLE AND CATCH BASIN MAINTENANCE HOLE STEPS IN ACCORDANCE WITH OPSS 405.010.
- D. MAINTENANCE HOLE FRAME AND GRATES IN ACCORDANCE WITH OPSS 401.010, TYPE 'A' CLOSED COVER.
- E. FROST STRAPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLES IN ACCORDANCE WITH OPSS 701.100.
- F. CATCH BASINS AND DOUBLE CATCH BASINS IN ACCORDANCE WITH OPSS 705.010 AND 705.020 C/W 900 mm SUMP.
- G. CATCH BASINS AND DOUBLE CATCH BASINS FRAME AND GRATES IN ACCORDANCE WITH OPSS 400.050 C/W COVERS TO OPSS 401.080 (FISH TYPE COVER).
- H. MAINTENANCE HOLES AND CATCH BASIN ADJUSTMENT UNITS SHALL BE IN ACCORDANCE WITH S606.
- I. CATCH BASIN LATERALS TO BE INSTALLED WITH MINIMUM 2.0% GRADE. MINIMUM PIPE SIZE 250 mm DIA. SINGLE, 300 mm DIA. DOUBLE.
- J. ALL CONNECTIONS TO THE STORM SEWER SHALL BE MADE WITH A STORM MAINTENANCE HOLE OR AN APPROVED FACTORY TEE CONNECTION IN ACCORDANCE WITH OPSS 708.010 OR OPSS 708.030.
- K. STORM SEWER TO BE MINIMUM 250 mm DIAMETER WITH JOINTS CONFORMING TO CSA STANDARD A257.3.
- L. ALL PIPE BEDDING MUST BE IN ACCORDANCE WITH OPSS, MAXIMUM COVER TABLE. NO FLEXIBLE PIPE SEWERS WILL BE INSTALLED WITH A DEPTH OF COVER GREATER THAN 6 m UNLESS SPECIFICALLY APPROVED BY THE DIRECTOR OF ENGINEERING.
- M. ALL PIPE HANDLING INSTALLATIONS MUST BE IN STRICT COMPLIANCE WITH MANUFACTURER'S INSTALLATION GUIDES AND THE ONTARIO CONCRETE PIPE ASSOCIATION OR UNIBELL GUIDELINES.

SANITARY SEWER

- A. SANITARY MAINTENANCE HOLES IN ACCORDANCE WITH OPSS 701.010 AND OPSS 701.011.
- B. SANITARY MAINTENANCE HOLES TO BE BENCHMARKED IN ACCORDANCE WITH OPSS 701.021. ALL CONNECTION TO MAINTENANCE HOLES TO INCLUDE KOR-N-SEAL RUBBER BOOT CONNECTION.
- C. FROST STRAPS SHALL BE INSTALLED ON ALL MAINTENANCE HOLES IN ACCORDANCE WITH OPSS 701.100.
- D. MAINTENANCE HOLE STEPS IN ACCORDANCE WITH OPSS 405.010.
- E. MAINTENANCE HOLE FRAME AND COVER TO OPSS 401.010, TYPE 'A' CLOSED COVER.
- F. MAINTENANCE HOLE FRAMES ARE TO BE SET TO BASE COURSE ASPHALT GRADE AND ADJUSTED TO FINAL GRADE WHEN THE TOP LIFT OF ASPHALT IS PLACED. ALL ADJUSTMENTS TO BE IN ACCORDANCE WITH S606.
- G. MAINTENANCE HOLE STRUCTURES EXCEEDING 5.0 m IN DEPTH TO INCLUDE SAFETY PLATFORM IN ACCORDANCE WITH OPSS 404.020.
- H. DROP STRUCTURES AT MAINTENANCE HOLES IN ACCORDANCE WITH S605.
- I. MAXIMUM DEFLECTION FROM COMBINED LIVE AND DEAD LOADING SHALL NOT EXCEED ANY CSA, OPSS OR MANUFACTURER'S SPECIFICATIONS.
- J. PVC, CONCRETE AND PROFILE WALL PVC SEWERS SHALL HAVE RUBBER GASKET TYPE JOINTS AND SHALL BE CERTIFIED TO CONFORM TO ALL APPLICABLE CURRENT CSA SPECIFICATIONS.
- K. SANITARY MAINTENANCE HOLES SHALL BE WATERPROOFED WITH HENRY COMPANY CANADA BLUESKIN WP200 SELF ADHESIVE AT SECTION JOINTS. ADHESIVE SHALL BE APPLIED PER MANUFACTURER'S RECOMMENDATIONS.
- L. ALL CONNECTIONS TO NEW SANITARY MAINS SHALL BE MADE WITH PRE-MANUFACTURED, FABRICATED TEES.
- M. RADIUS BENDS TO BE USED ON ALL SEWER CONNECTIONS WHERE THE ANGLE OF CONNECTION BETWEEN THE SERVICE AND SEWER EXCEEDS 90°.

WATERMAIN

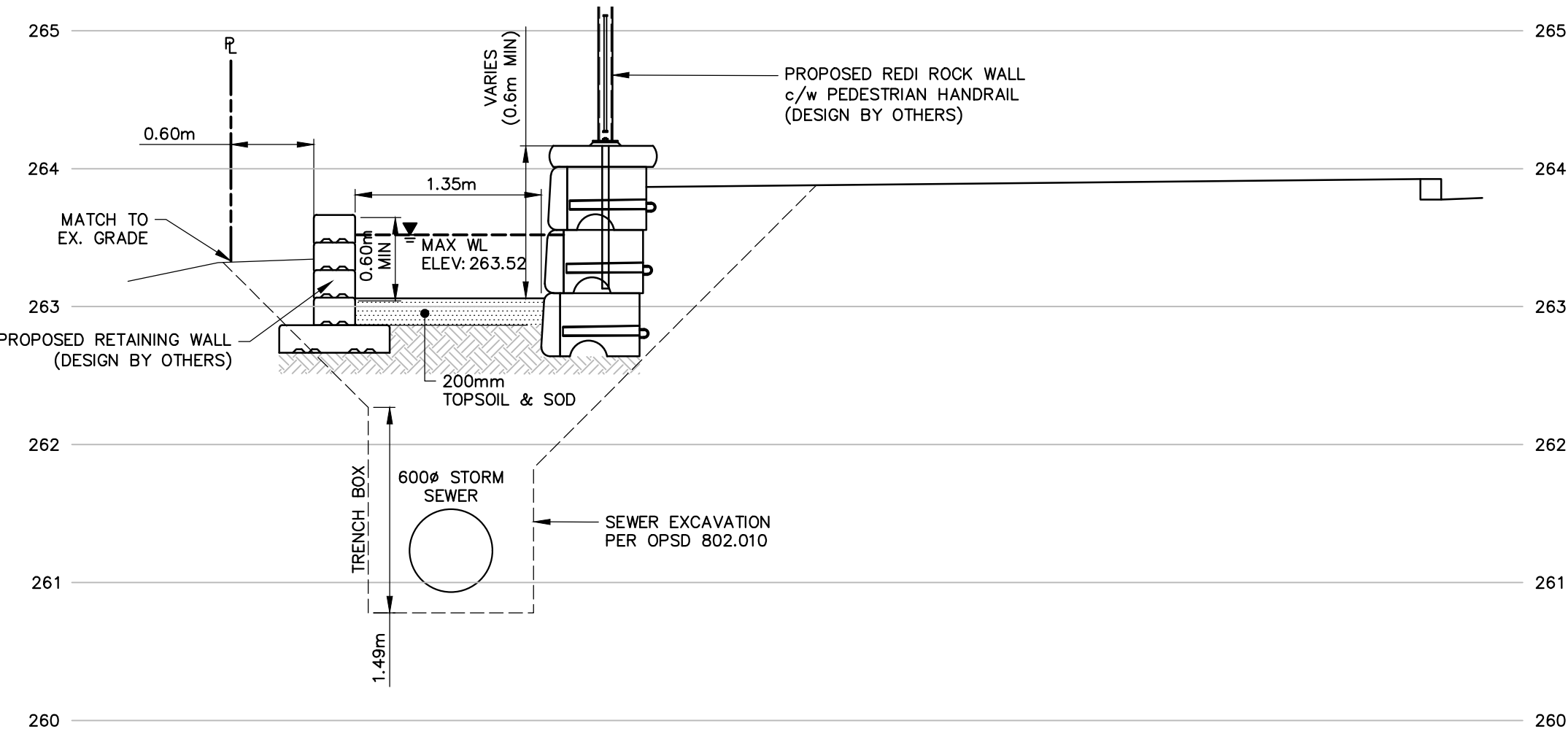
- A. GENERAL INSTALLATION AND TESTING OF WATERMAIN TO BE IN ACCORDANCE WITH OPSS.MUNI 421, OPSS.MUNI 701 AND CITY OF BARRIE ENGINEERING STANDARDS. ALL WORK ON THE EXISTING WATERMAIN TO BE COORDINATED WITH THE CITY OF BARRIE.
- B. CONTRACTORS SHALL INFORM THE CITY OF BARRIE WATER OPERATIONS DEPARTMENT A MINIMUM OF 48 HOURS IN ADVANCE OF THEIR INTENTIONS TO PERFORM WORK ON WATER INFRASTRUCTURE.
- C. OPERATION OF HYDRANTS AND VALVES ON THE POTABLE WATER SYSTEM BY OTHER THAN QUALIFIED WATER OPERATIONS STAFF IS PROHIBITED BY CITY BY-LAW. CITY SERVICE FEES ARE PER THE CURRENT FEES BY-LAW.
- D. MINIMUM COVER OVER WATERMAIN SHALL BE 1.7m. WITH 0.5m VERTICAL SEPARATION FROM SEWERS, WHERE WATERMAIN CONFLICTS WITH SEWER PIPES, DEFLECT WATERMAIN BELOW SEWER WHILE PROVIDING 0.5m CLEARANCE BETWEEN WATERMAIN AND SEWERS AND INSULATION TO BE PROVIDED WHERE MINIMUM COVER CAN NOT BE ACHIEVED. WATERMAIN SHALL NOT BE INSTALLED WITH COVER LESS THAN 1.2m.
- E. THE MINIMUM HORIZONTAL SEPARATION BETWEEN WATERMAIN AND SEWERS SHALL BE 2.5m.
- F. HYDRANTS TO BE CONSIDERED PRIVATE, INSTALLED IN ACCORDANCE WITH W507 AND PAINTED RED.
- G. CONTRACTOR SHALL PROVIDE CATHODIC PROTECTION ON THE WATER DISTRIBUTION SYSTEM. IN DETERMINING THE MODE OF PROTECTION, AN ELECTRICAL RESISTIVITY OF 4000-4500 OHM-CM SHOULD BE USED. THE CONTRACTOR SHALL PROPOSE METHODS AND MATERIALS TO BE USED FOR APPROVAL BY THE CONTRACT ADMINISTRATOR AND CITY OF BARRIE WATER OPERATIONS DEPARTMENT.
- H. TRACER WIRE SHALL BE #12 AWG HIGH STRENGTH COPPER CLAD (HS-CSS) AND SHALL BE INSTALLED ON THE TOTAL LENGTH OF ALL WATERMAIN AND BROUGHT UP AT EACH HYDRANT AND CONNECTED TO FLANGE BOLT. ALL SPLICES TO UTILIZE CONNECTORS AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST.
- I. THE DOMESTIC SERVICE WILL REQUIRE A SAME SIZED WATER METER C/W BYPASS ASSEMBLY AS PER W533.
- J. BOTH DOMESTIC AND FIRE SERVICES WILL REQUIRE BACKFLOW PREVENTION INSTALLED AS PER CITY OF BARRIE BYLAW 2017-121.
- K. SERVICE TAPPINGS SHALL BE PLACED AT A MINIMUM SEPARATION OF 1.0 m AND A MINIMUM OF 0.6 m FROM JOINTS (ENDS OF PIPE).
- L. RISER PIPES ARE TO BE INSTALLED AS PER W510, AND REMOVED AS DIRECTED. SWABBING SCHEDULE TO BE SUPPLIED BY A WATER OPERATIONS FIELD REPRESENTATIVE. ALL RISERS ARE TO BE RESTRAINED OR THRUST BLOCKED.
- M. ALL NEW CURB STOPS AND BOXES TO BE LOCATED ON PROPERTY LINE AND OUT OF DRIVEWAYS AND SIDEWALKS.

PAVEMENT MARKINGS

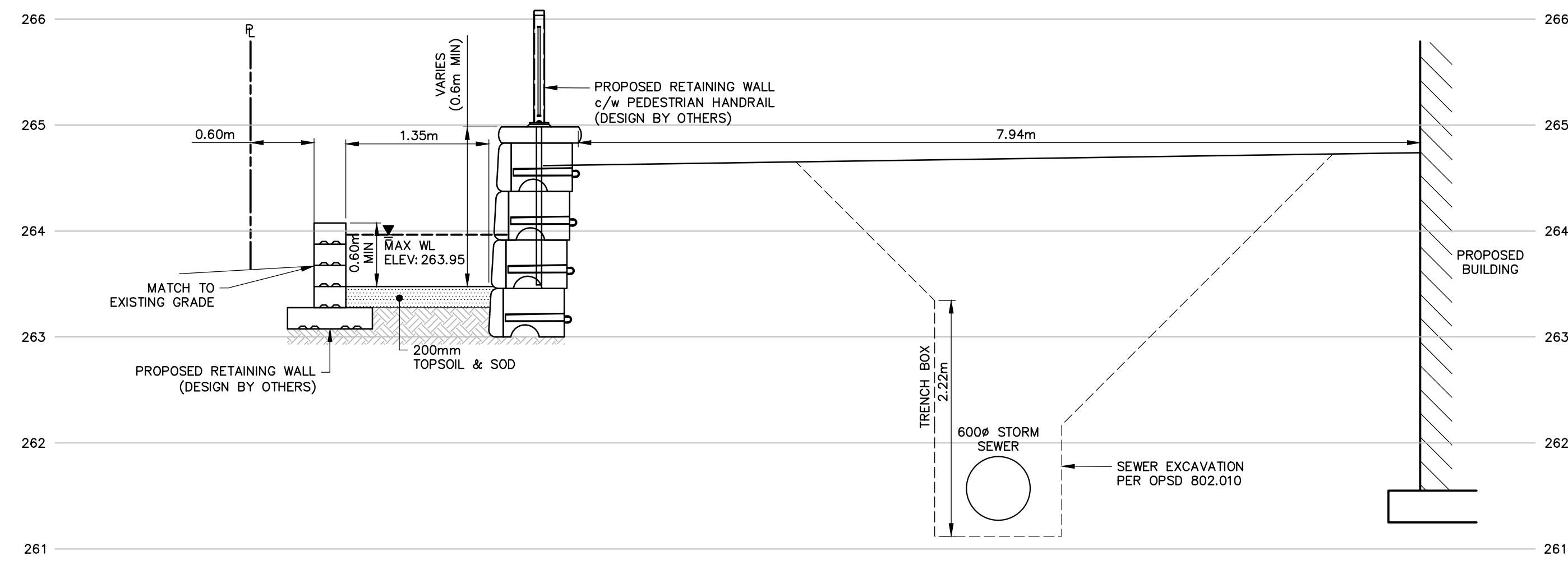
- A. REFER TO ARCHITECTURAL DRAWINGS FOR PAVEMENT MARKINGS AND SIGNAGE PLAN.
- B. PAVEMENT MARKING MATERIALS TO BE ORGANIC SOLVENT BASED OR WATER-BORNE TRAFFIC PAINT COMPLETE WITH GLASS BEADS IN ACCORDANCE WITH 1712.
- C. PAVEMENT MARKING MATERIALS FOR CROSSWALKS AND SYMBOLS ARE TO BE DURABLE HOT APPLIED THERMOPLASTIC PAVEMENT MARKING MATERIAL AS PER OPSS 1713, OR FIELD REACTED POLYMERIC PAVEMENT MARKING MATERIAL AS PER OPSS 1714.
- D. PAVEMENT MARKINGS REQUIRE TWO APPLICATIONS OF PAINT FOR NEW ASPHALT. THE SECOND APPLICATION SHALL NOT BE APPLIED UNTIL THE FIRST IS TACK FREE.
- E. PAVEMENT MARKINGS SHALL ONLY BE APPLIED WHEN TEMPERATURE IS ABOVE 10 DEGREES CELSIUS, THE PAVEMENT IS PERFECTLY DRY AND UPON THE AUTHORIZATION OF THE CONTRACT ADMINISTRATOR.
- F. WORK TO BE IN ACCORDANCE WITH OPSS 532, OPSS 710 AND THE ONTARIO TRAFFIC MANUAL BOOK 11, MINISTRY OF TRANSPORTATION OF ONTARIO.

MATERIALS

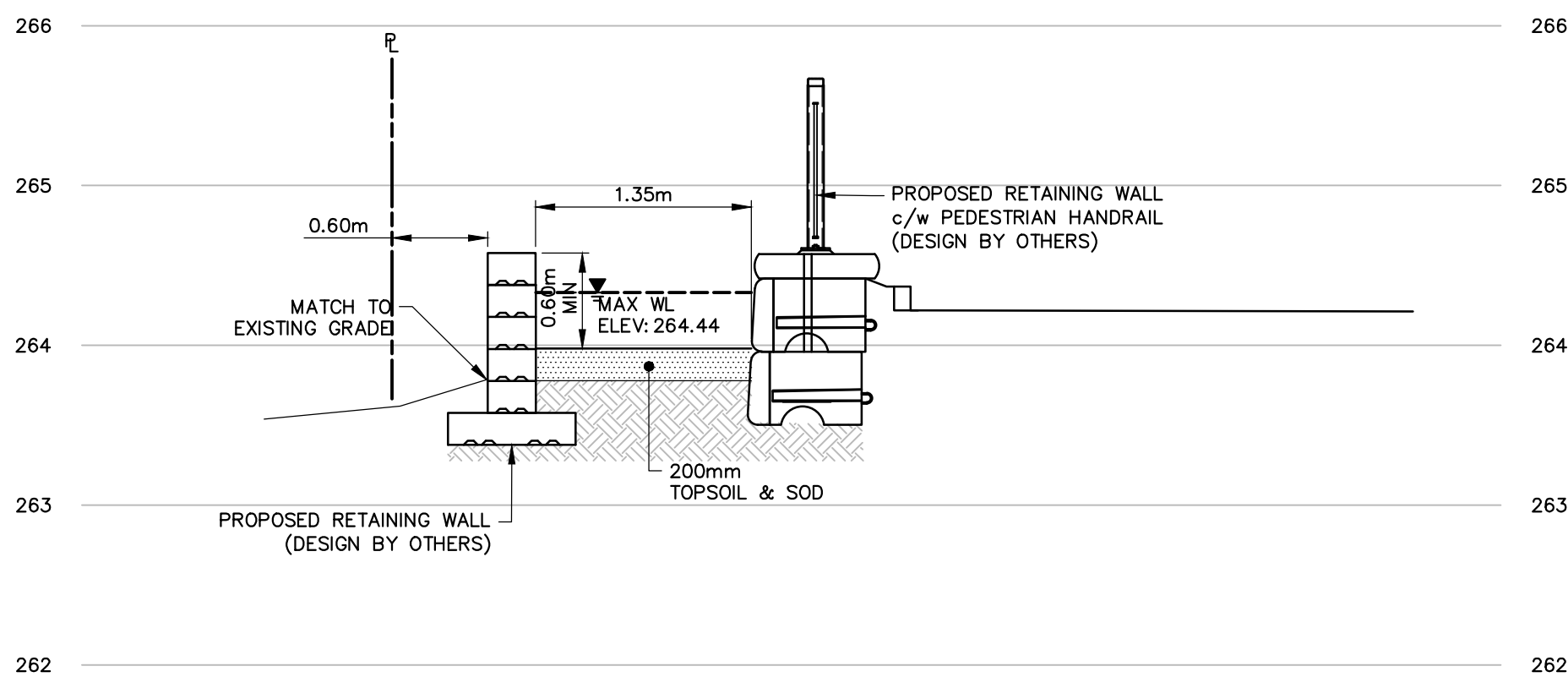
- A. SANITARY SEWER - SDR 35 PVC, UNLESS OTHERWISE NOTED.
- B. WATERMAIN - PVC DR18 CL150 MINIMUM; DUCTILE IRON CL52 AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST.
- C. WATER SERVICES - AS PER THE APPROVED MANUFACTURERS PRODUCTS FOR LINEAR WATER SYSTEMS LIST.
- D. MAIN STOPS - 1" to 2" 301NL-A484 (NO LEAD, LIFETIME, GUARANTEED AGAINST LEAD LEACHATE FROM THE CASTING), BALL STYLE C/W STAINLESS STEEL STEM, ANW4 THREAD BY COMPRESSION CAMBRIDGE BRASS.
- E. VALVES - RESILIENT SEATED GATE VALVE, MECHANICAL JOINT, OPEN LEFT CLOW OR MUELLER WITH 5 SL-48 SLIDING VALVE BOX. PROVIDE VALVE STEM EXTENSIONS WHERE WATERMAIN EXCEEDS 1.7m DEPTH.
- F. MECHANICAL JOINT DUCTILE FITTINGS - AWWA/ANSI C153/A21.53.
- G. RESTRAINING GLANDS - SIGMA ONE-LOK.
- H. FILTER FABRIC - TERRAFIX 270R OR APPROVED EQUAL.
- I. PERFORATED SUBDRAINS - 100mm CORRUGATED SLOTTED PE WITH GEOTEXTILE FILTER SOCK OR APPROVED EQUAL.
- J. STORM SEWER - PVC CERTIFIED TO CSA STANDARDS 182.2 AND 182.4 (MAX. PIPE DIAMETER 450 mm) OR REINFORCED CONCRETE WITH A MINIMUM STRENGTH OF 50 N/m/mm CERTIFIED TO CSA STANDARD A247.2-1982, CLASS 100-D.
- K. ALL SPECIFIED AGGREGATES TO OPSS 1010.



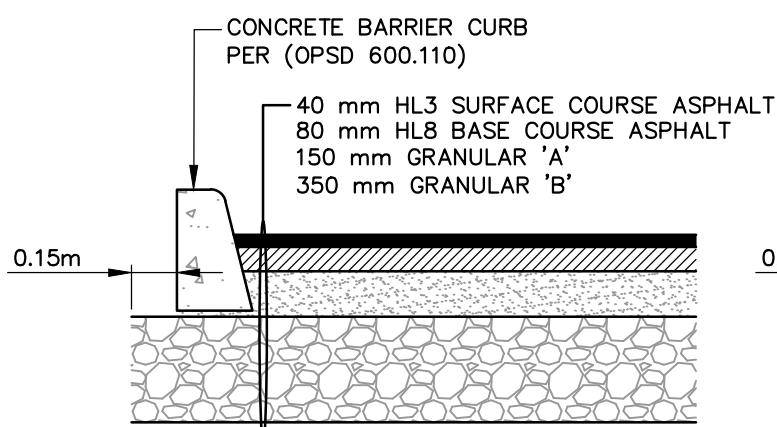
A OVERLAND FLOW CHANNEL SECTION
GP-2.2 NOT TO SCALE



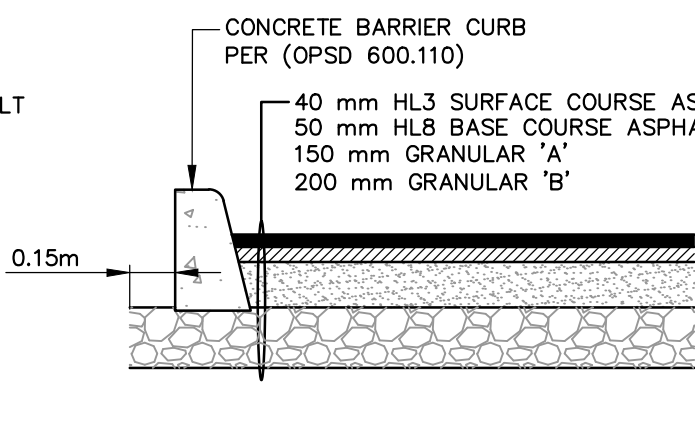
B OVERLAND FLOW CHANNEL SECTION
GP-2.2 NOT TO SCALE



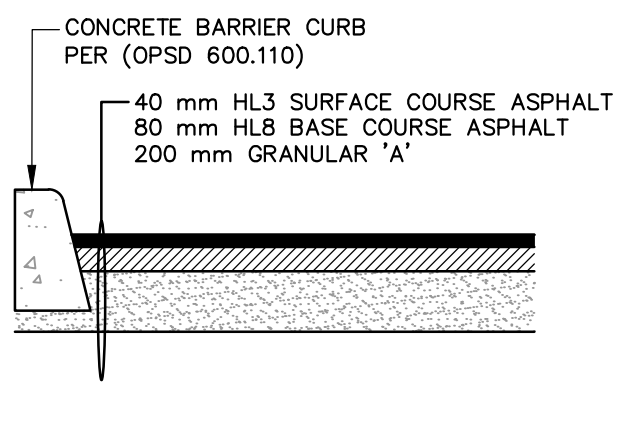
C OVERLAND FLOW CHANNEL SECTION
GP-2.2 NOT TO SCALE



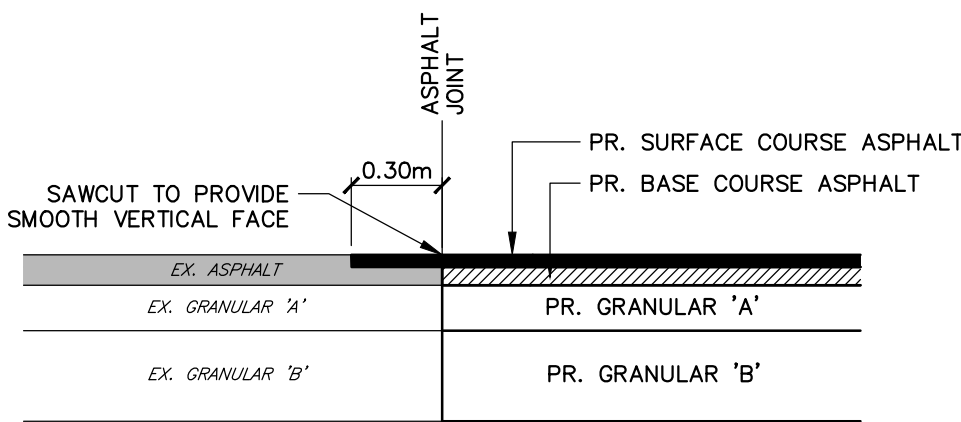
HEAVY DUTY PAVEMENT STRUCTURE
NOT TO SCALE



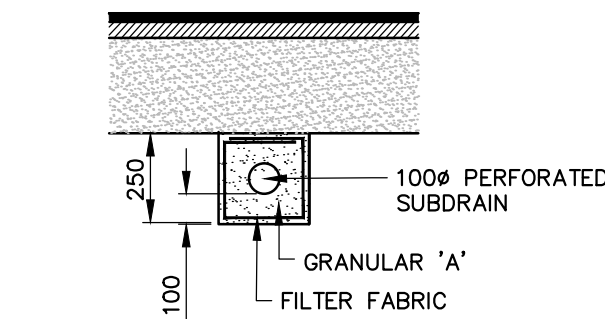
LIGHT DUTY PAVEMENT STRUCTURE
NOT TO SCALE



PAVEMENT STRUCTURE ABOVE
UNDERGROUND PARKING STRUCTURE
NOT TO SCALE



LAP JOINT DETAIL
NOT TO SCALE



100% PERFORATED SUBDRAIN
IN PARKING AREA
NOT TO SCALE

DISCLAIMER AND COPYRIGHT

CONTRACTOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED.

TATHAM ENGINEERING LIMITED CLAIMS COPYRIGHT TO THIS DRAWING WHICH MAY NOT BE USED FOR ANY PURPOSE OTHER THAN THAT PROVIDED IN THE CONTRACT BETWEEN THE OWNER/CLIENT AND THE ENGINEER WITHOUT THE EXPRESS CONSENT OF TATHAM ENGINEERING LIMITED.

DRAWING REFERENCES

TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022.

SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024.

BENCHMARK

TBM#1 ELEV. 263.48 m
MNP No. 0011931U460S - SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK.

| No. | REVISION DESCRIPTION | DATE |
|-----|--|------------|
| 1. | SITE PLAN APPROVAL - FIRST SUBMISSION | JULY 17/24 |
| 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 |
| 3. | SITE PLAN APPROVAL - SECOND SUBMISSION | SEPT. 6/24 |
| 4. | SITE PLAN APPROVAL - THIRD SUBMISSION | OCT. 4/24 |
| 5. | SITE PLAN APPROVAL - FOURTH SUBMISSION | OCT. 8/24 |

ENGINEER STAMP

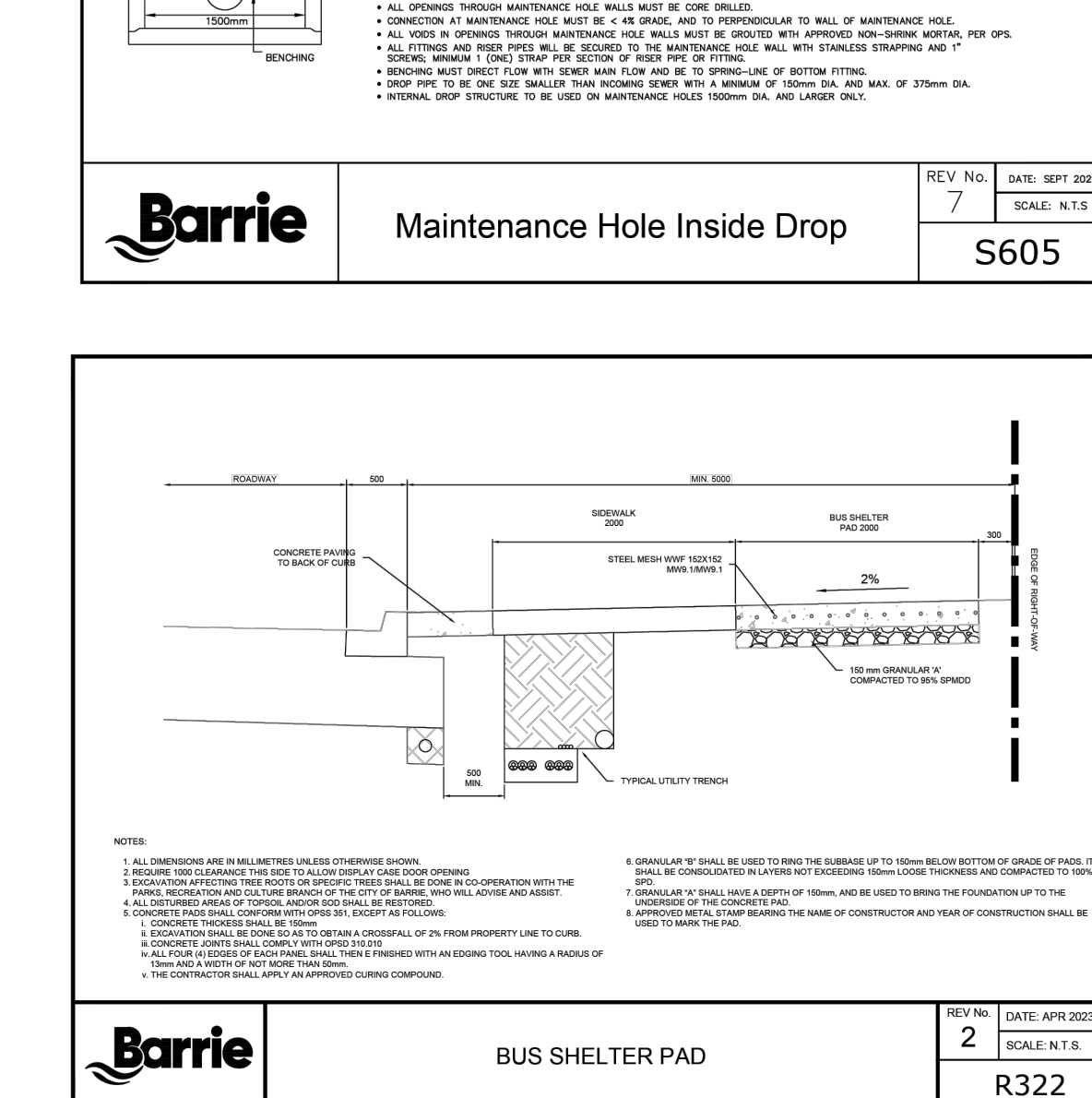
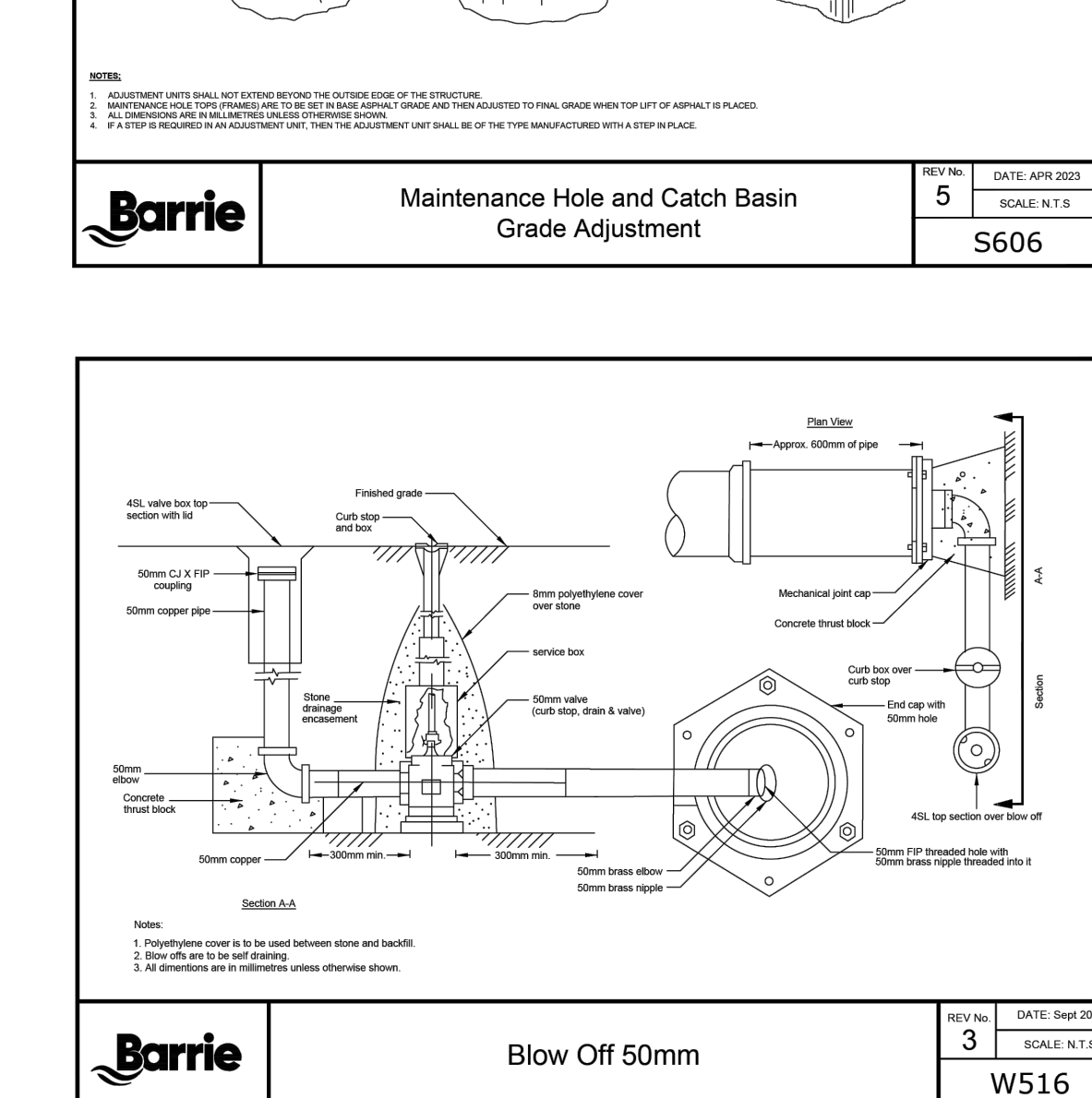
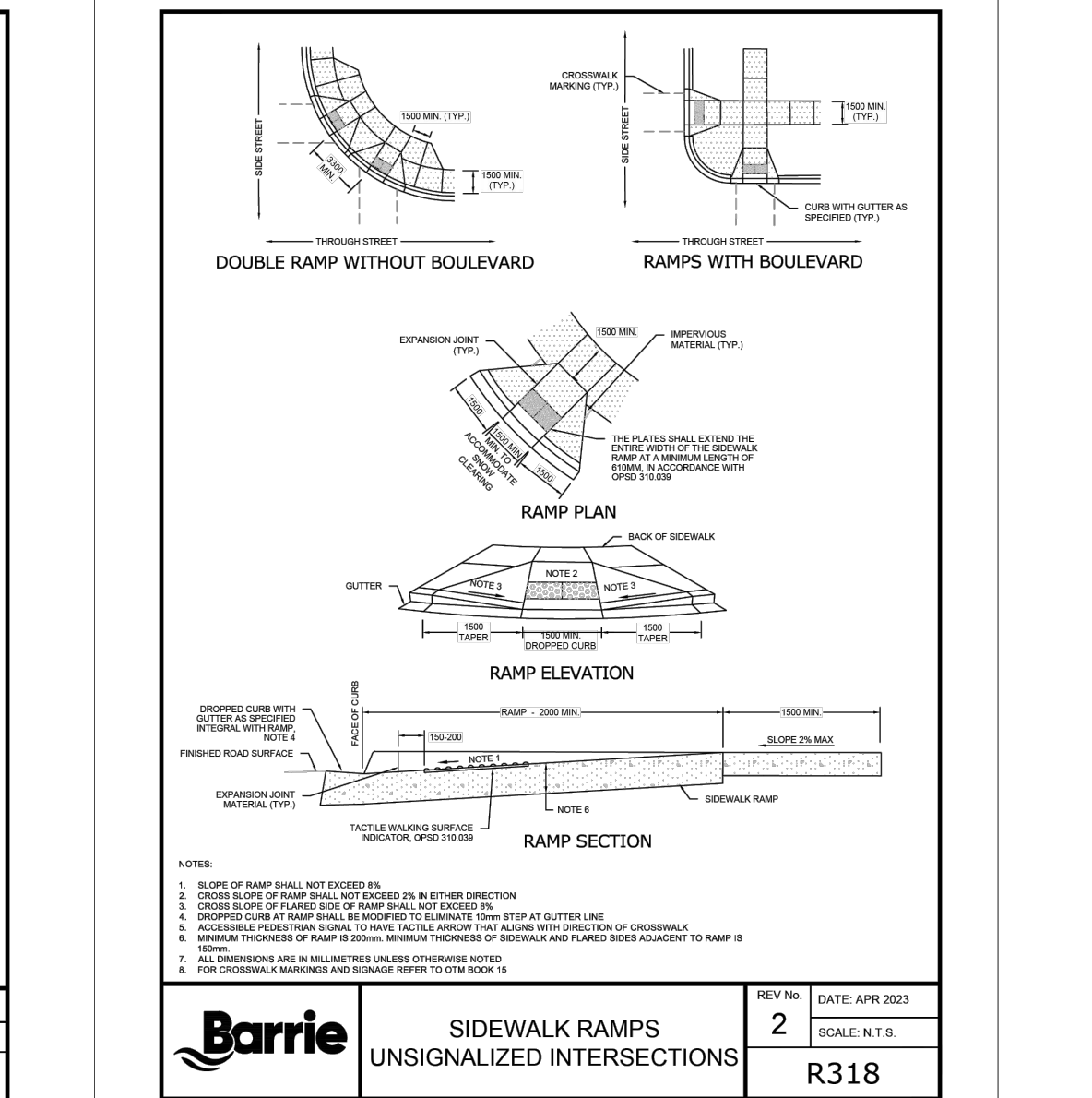
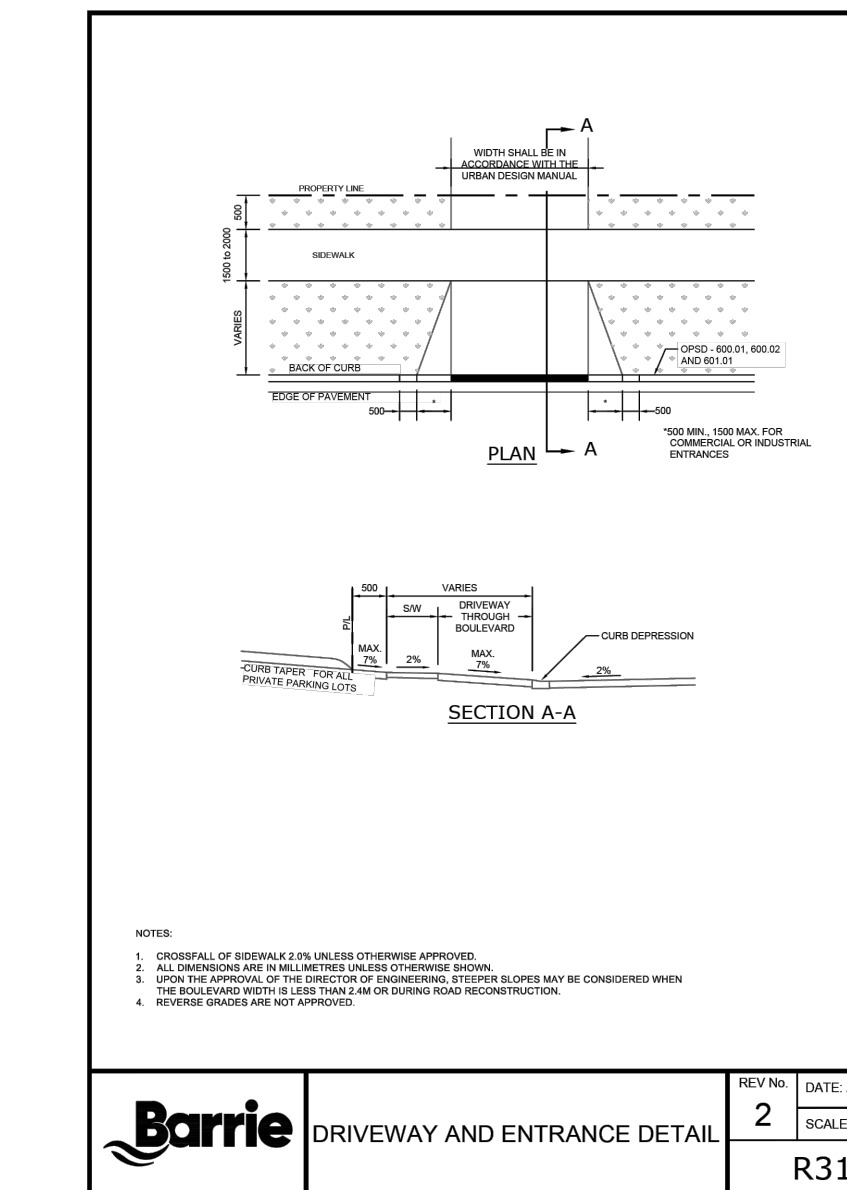
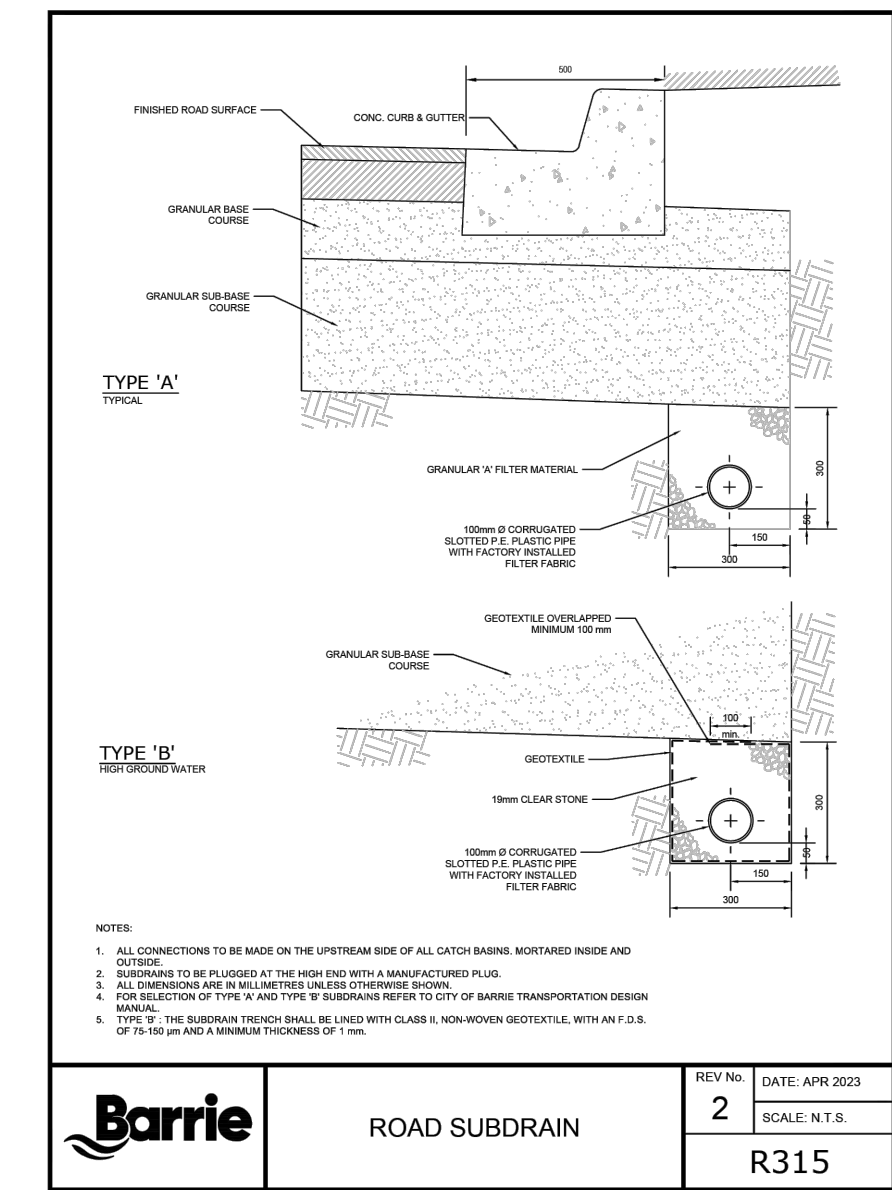
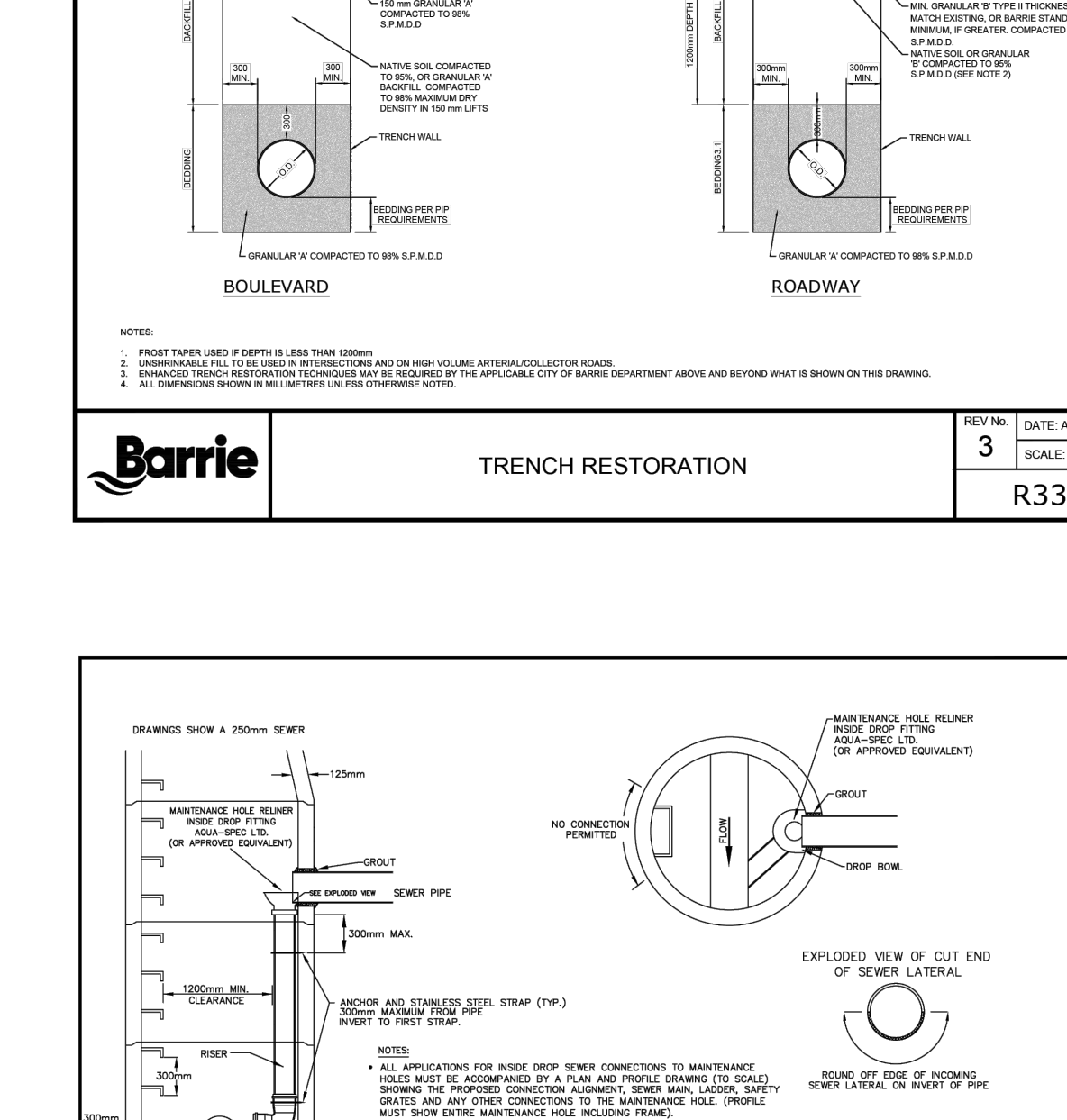
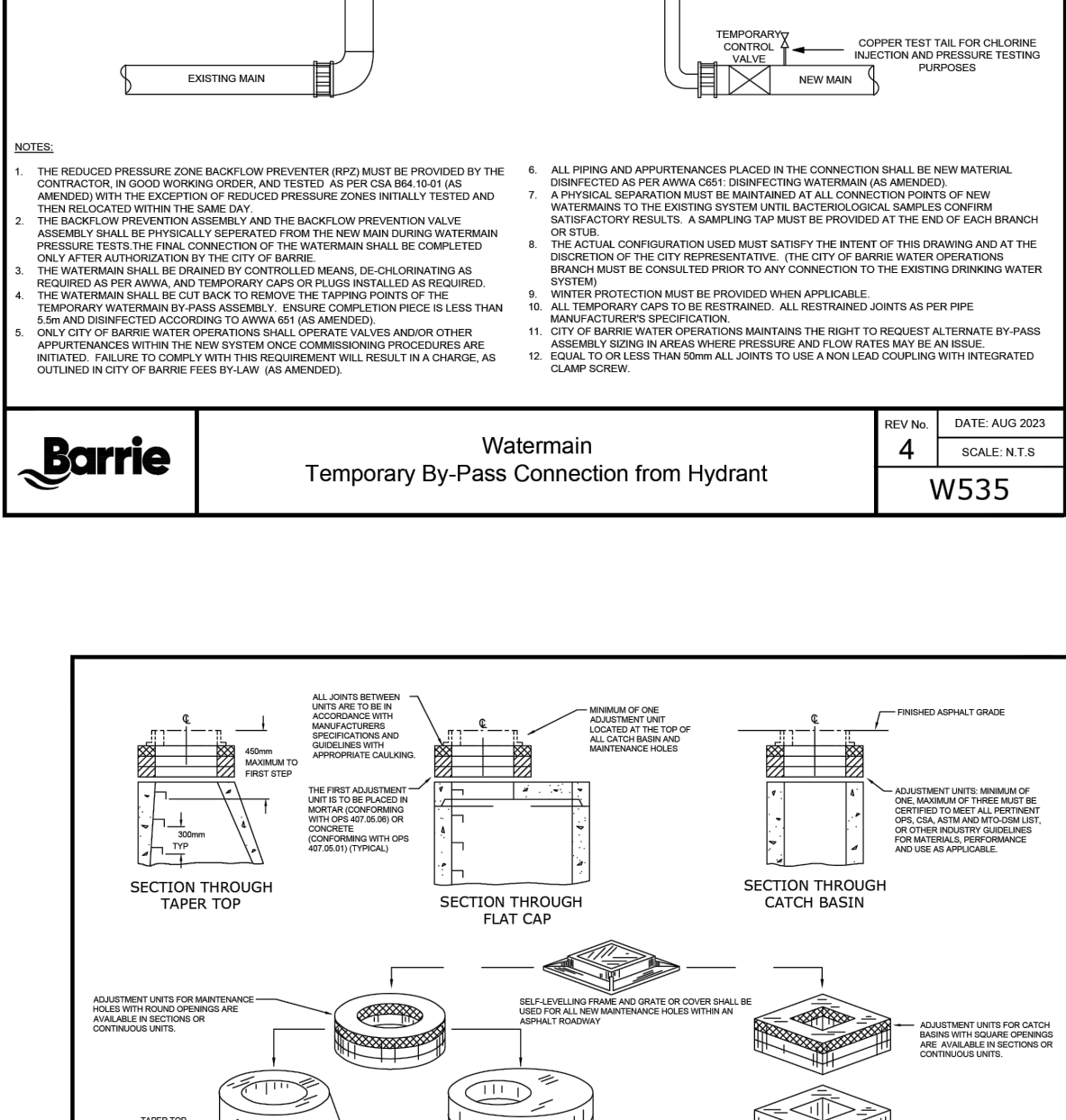
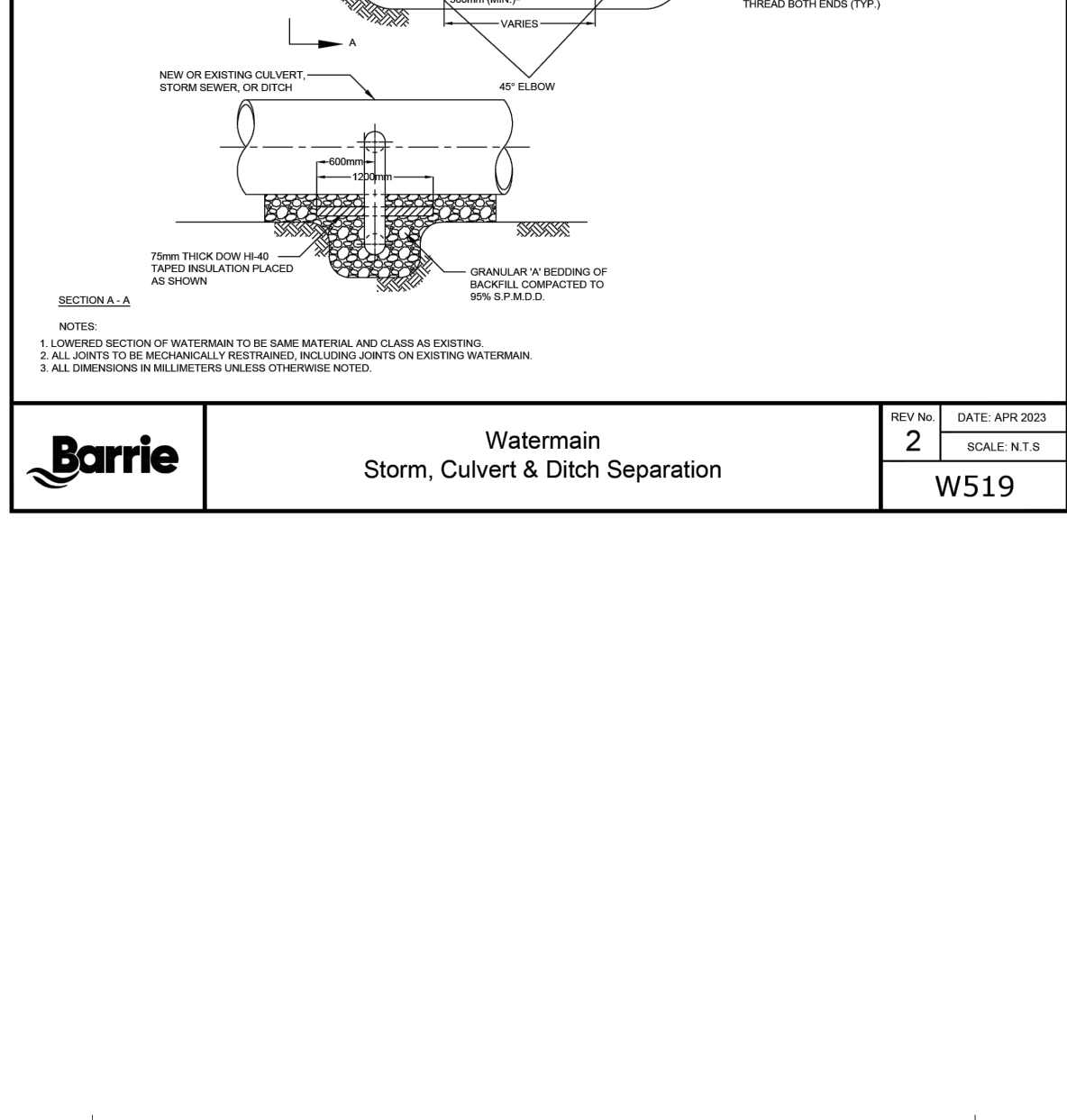
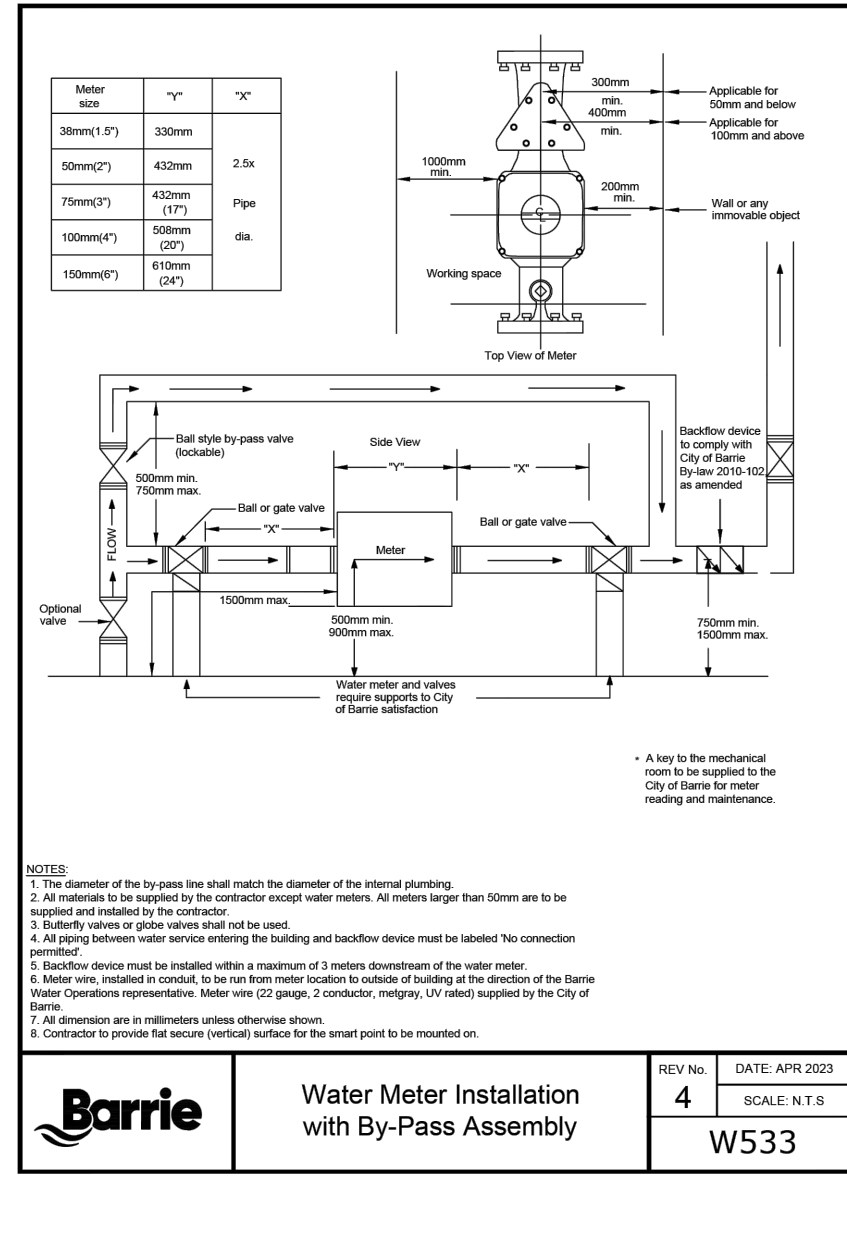
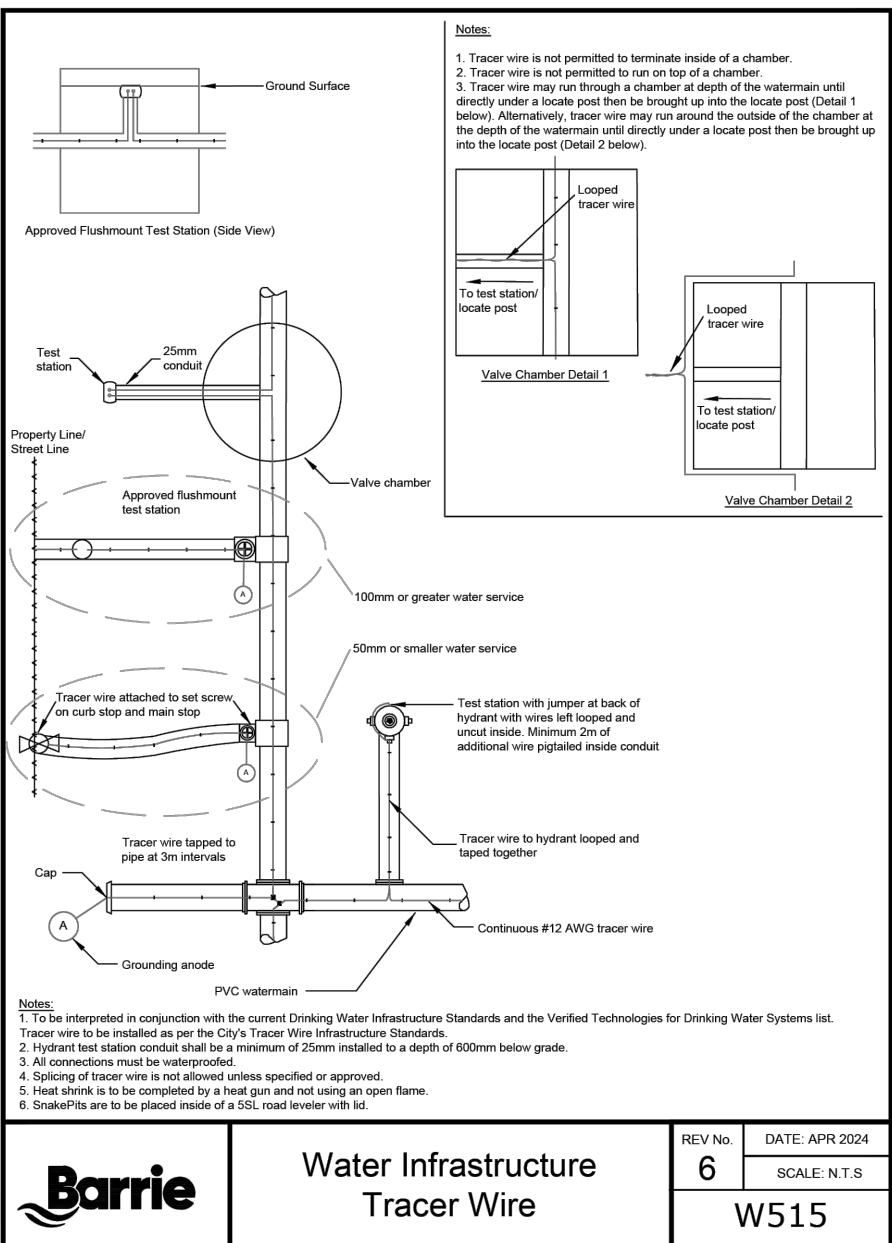
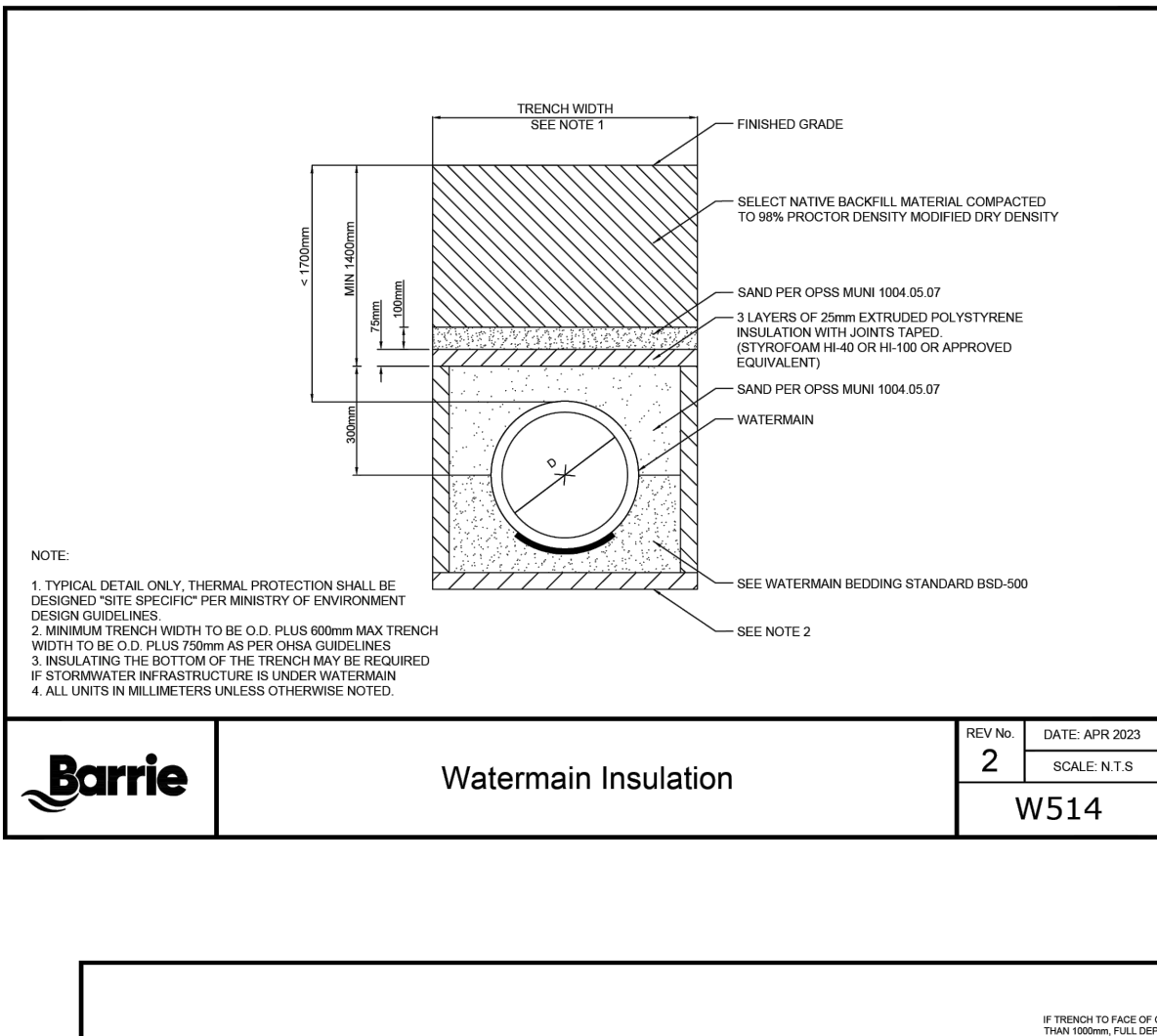
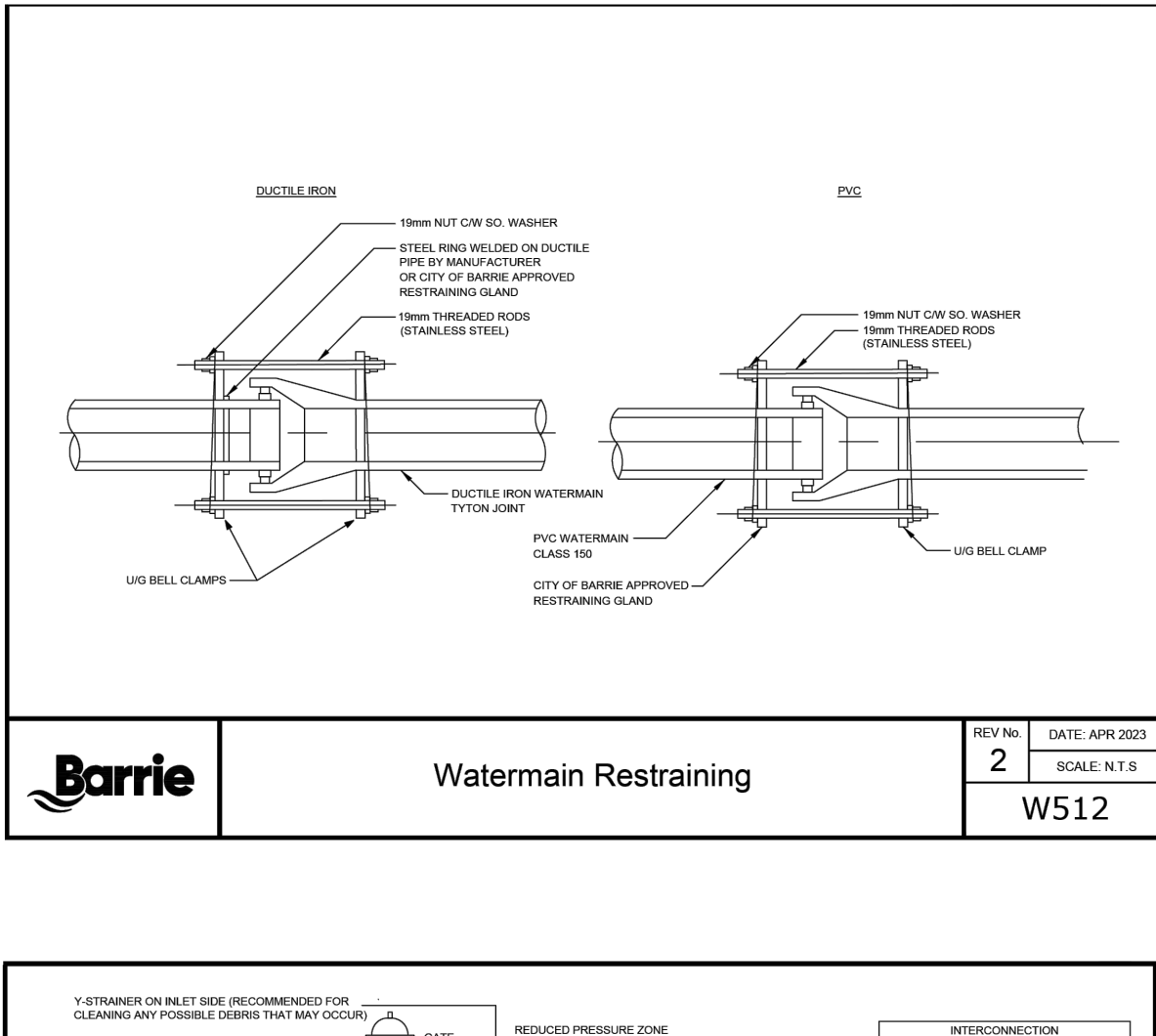
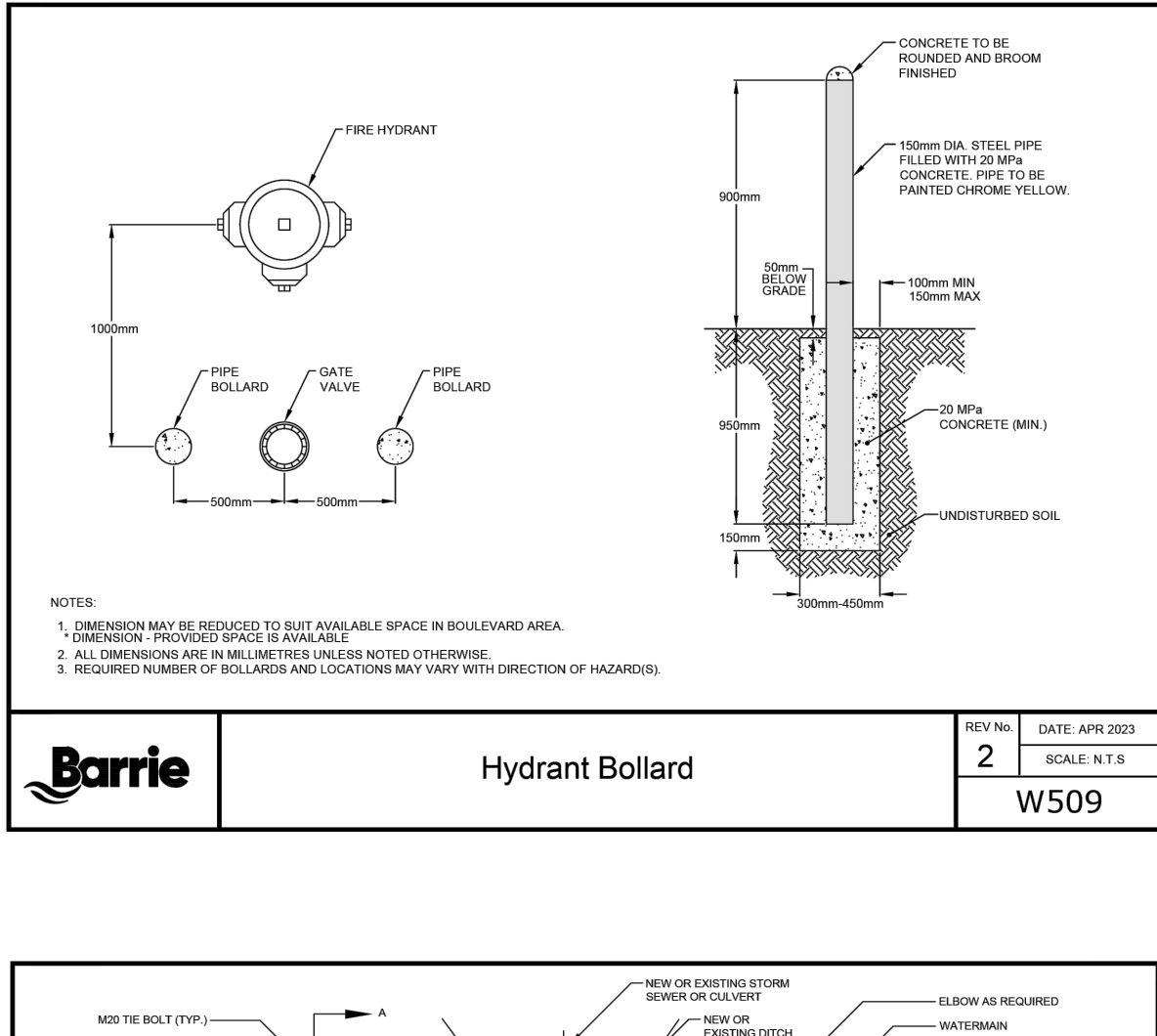
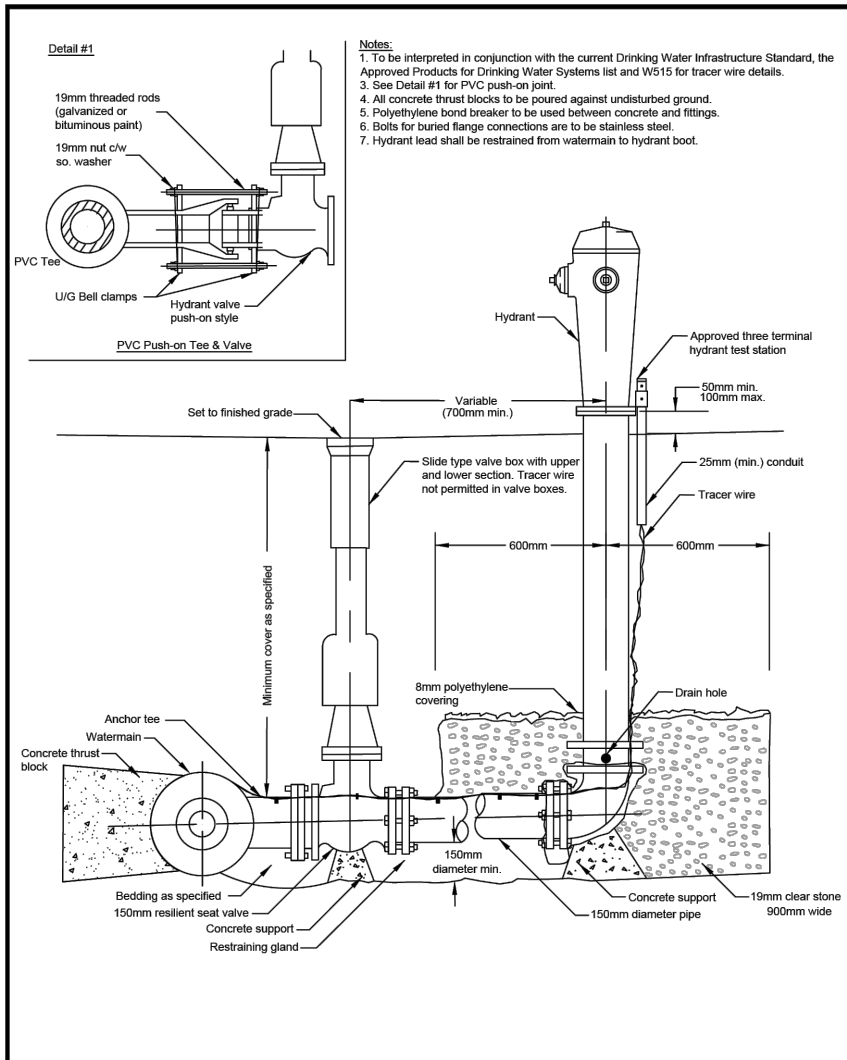
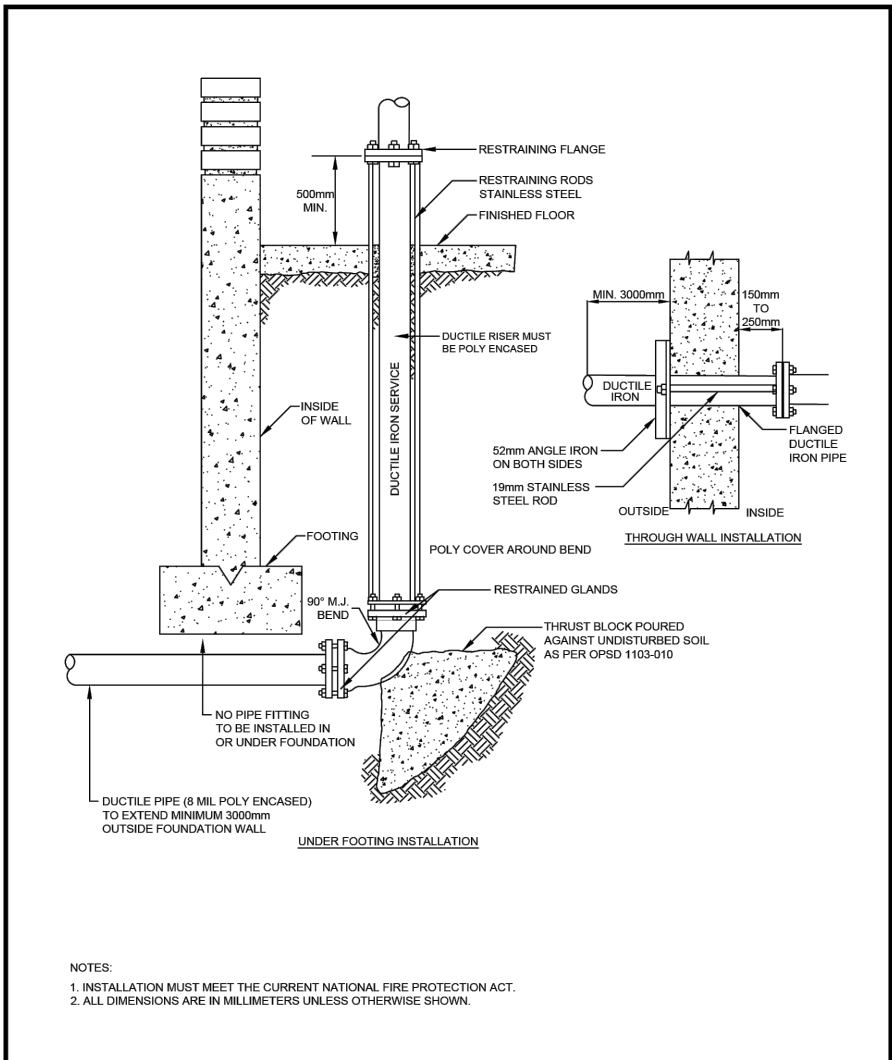





THE VILLAGE OF INNIS LANDING
800 YONGE STREET
CITY OF BARRIE



DETAILS & NOTES

| | | |
|---------------|------------------|-------------|
| DESIGN: LC | FILE: 422426 | DWG: |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | DE-1 |
| CHECK: BFS/NM | SCALE: AS NOTED | |



| FOR MUST VERIFY ALL DIMENSIONS AND BE RESPONSIBLE FOR SAME. ANY DISCREPANCIES MUST BE REPORTED TO THE ENGINEER BEFORE COMMENCING WORK. DRAWINGS ARE NOT TO BE SCALED. | DRAWING REFERENCES TOPOGRAPHIC FEATURES AND LEGAL BOUNDARIES SHOWN ON THIS PLAN FROM SURVEY COMPLETED BY KRCMAR SURVEYORS LTD., OLS, DATED FEBRUARY 2022. SITE PLAN INFORMATION SHOWN ON THIS PLAN BASED ON DRAWING SP1.0, PREPARED BY ANDERSON WELLSMAN ARCHITECTS INCORPORATED DATED SEPTEMBER 6, 2024. | BENCHMARK TBM#11 ELEV. 263.48 m MNR No. 001193IU460S – SOUTHWEST CORNER OF ST. PAUL'S CRESCENT AND YONGE STREET, TABLET SET HORIZONTALLY IN NORTH FACE OF CONCRETE FOUNDATION OF ST. PAUL'S ANGLICAN CHURCH, AT NORTH-EAST CORNER (TOWER) 15.2 m WEST OF BEL POLE AND 9.2 m SOUTH-EAST OF "V" IN TWIN BIRCH TREES 15 cm BELOW BRICK. | <table><tr><th>No.</th><th>REVISION DESCRIPTION</th><th>DATE</th></tr><tr><td>1.</td><td>SITE PLAN APPROVAL – FIRST SUBMISSION</td><td>JULY 17/24</td></tr><tr><td>2.</td><td>ISSUED FOR BUILDING PERMIT APPROVAL</td><td>AUG. 15/24</td></tr><tr><td>3.</td><td>SITE PLAN APPROVAL – SECOND SUBMISSION</td><td>SEPT. 6/24</td></tr><tr><td>4.</td><td>SITE PLAN APPROVAL – THIRD SUBMISSION</td><td>OCT. 4/24</td></tr><tr><td>5.</td><td>SITE PLAN APPROVAL – FOURTH SUBMISSION</td><td>OCT. 8/24</td></tr></table> | No. | REVISION DESCRIPTION | DATE | 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | <table><tr><td colspan="2">ENGINEER STAMP</td></tr><tr><td colspan="2"></td></tr><tr><td colspan="2"><div>THE VILLAGE OF INNIS LANDING</div><div>800 YONGE STREET</div><div>CITY OF BARRIE</div></td></tr><tr><td colspan="2"><div>CITY OF BARRIE</div><div>STANDARD DETAILS</div></td></tr></table> | ENGINEER STAMP | |  | | <div>THE VILLAGE OF INNIS LANDING</div> <div>800 YONGE STREET</div> <div>CITY OF BARRIE</div> | | <div>CITY OF BARRIE</div> <div>STANDARD DETAILS</div> | | <table><tr><td>DESIGN: LC</td><td>FILE: 422426</td><td rowspan="3">DWG: DE-2</td></tr><tr><td>DRAWN: LQ/JLM</td><td>DATE: APRIL 2024</td></tr><tr><td>CHECK: BFS/NM</td><td>SCALE: AS NOTED</td></tr></table> | DESIGN: LC | FILE: 422426 | DWG: DE-2 | DRAWN: LQ/JLM | DATE: APRIL 2024 | CHECK: BFS/NM | SCALE: AS NOTED |
|---|---|--|---|-----|---------------------------------------|------------|----|---------------------------------------|------------|----|-------------------------------------|------------|----|--|------------|----|---------------------------------------|-----------|----|--|-----------|---|----------------|--|---|--|---|--|---|--|---|------------|--------------|-----------|---------------|------------------|---------------|-----------------|
| | | | | No. | REVISION DESCRIPTION | DATE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 1. | SITE PLAN APPROVAL – FIRST SUBMISSION | JULY 17/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | 2. | ISSUED FOR BUILDING PERMIT APPROVAL | AUG. 15/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3. | SITE PLAN APPROVAL – SECOND SUBMISSION | SEPT. 6/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4. | SITE PLAN APPROVAL – THIRD SUBMISSION | OCT. 4/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 5. | SITE PLAN APPROVAL – FOURTH SUBMISSION | OCT. 8/24 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ENGINEER STAMP | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>THE VILLAGE OF INNIS LANDING</div> <div>800 YONGE STREET</div> <div>CITY OF BARRIE</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <div>CITY OF BARRIE</div> <div>STANDARD DETAILS</div> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DESIGN: LC | FILE: 422426 | DWG: DE-2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DRAWN: LQ/JLM | DATE: APRIL 2024 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CHECK: BFS/NM | SCALE: AS NOTED | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |