The City of Winnipeg Appendix F RFP No. 180-2017

Template Version: SrC120161104 - Consulting Services RFP

APPENDIX F - RW754 1999 WORKS





THE CITY OF WINNIPEG

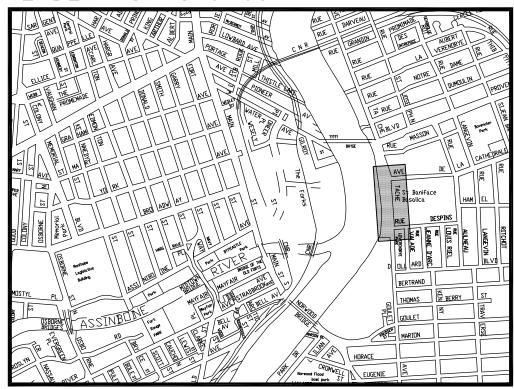
PROPERTY AND DEVELOPMENT SERVICES DEPARTMENT

CITY OF WINNIPEG / PROVINCE OF MANITOBA

TACHE AVENUE RIVERBANK RESTORATION AND RELATED WORKS

TACHE AVENUE, RUE DESPINS TO AVE DE LA CATHEDRAL (SITE WW5)

TENDER NO. 1540-99



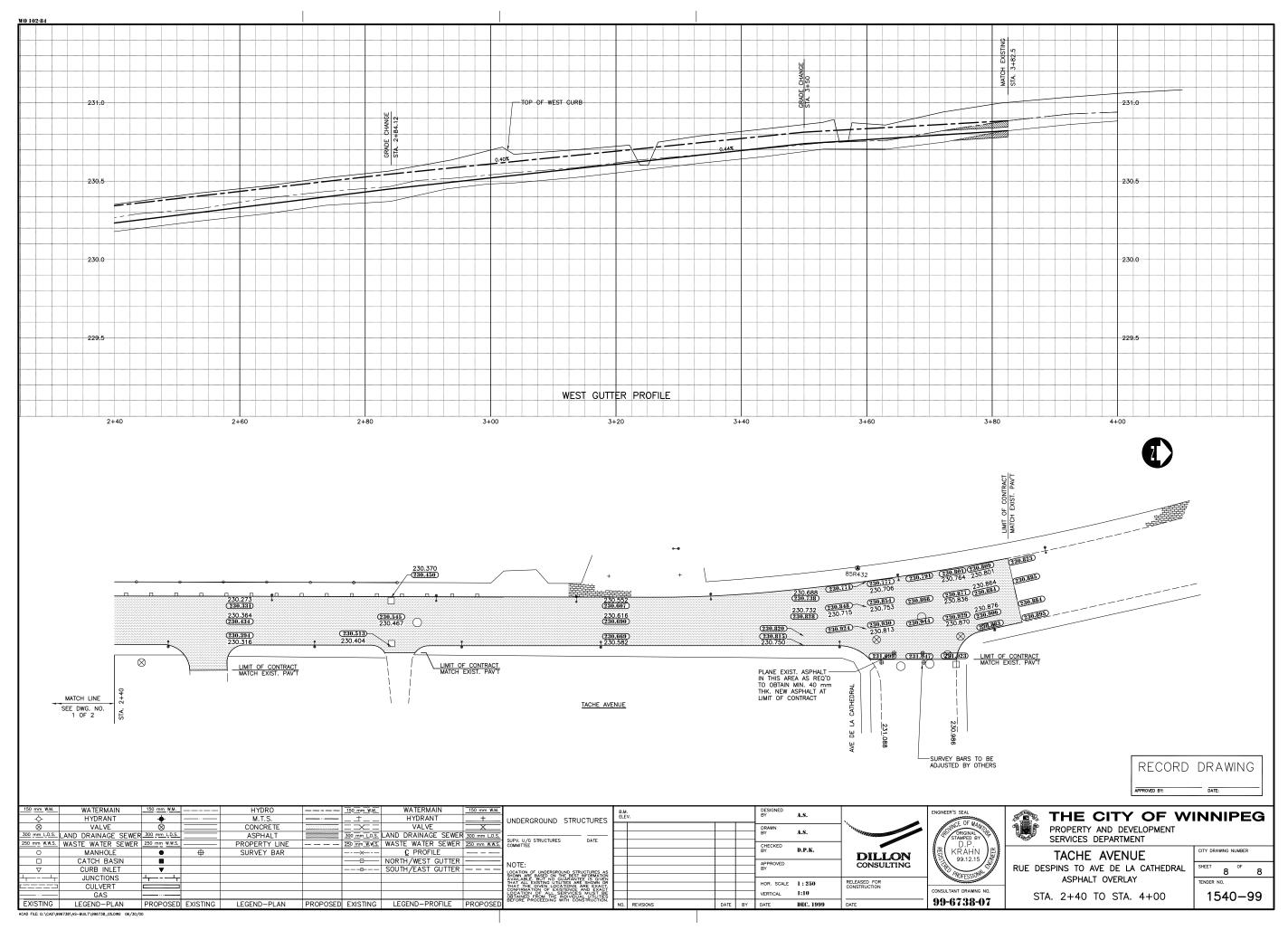
LOCATION PLAN

DRAWING LIST

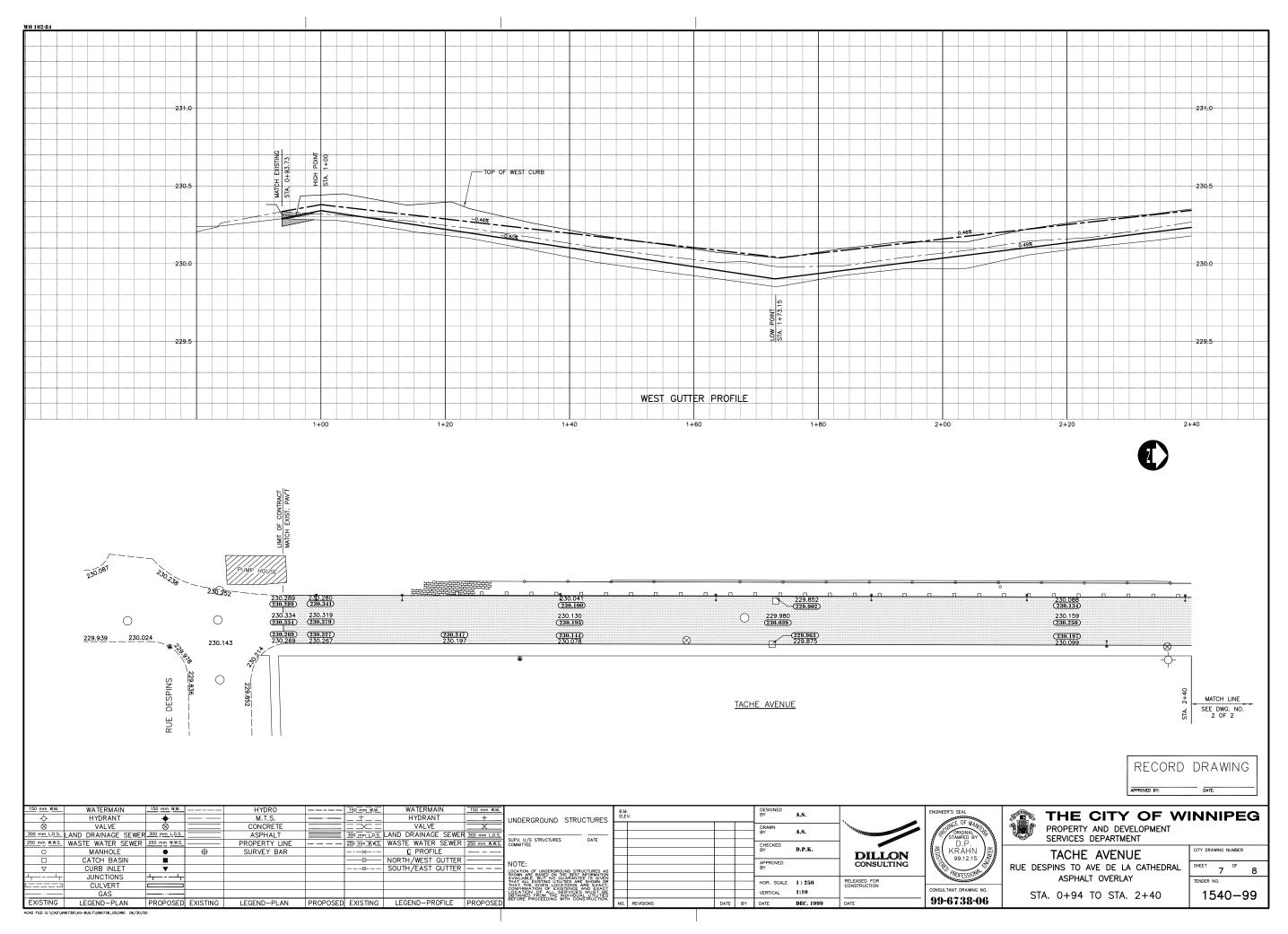
| <u>SHT.</u> <u>NO.</u> | TITLE | CONSULTANT DWG. NO. |
|---------------------------|--|---------------------|
| 1 | COVER SHEET | |
| | EAST BANK SLOPE RESTORATION | |
| 2 | PLAN | 99-6738-01 |
| 3 | CROSS SECTION & DETAILS | 99-6738-02 |
| 4 | SOIL LOGS | 99-6738-03 |
| | ASPHALT RESURFACING | |
| 5 | TACHE AVENUE EAST GUTTER - STA. 0+94 TO 2+40 | 99-6738-04 |
| 6 | TACHE AVENUE EAST GUTTER - STA. 2+40 TO 4+00 | 99-6738-05 |
| 7 | TACHE AVENUE WEST GUTTER - STA. 0+94 TO 2+40 | 99-6738-06 |
| 8 | TACHE AVENUE WEST GUTTER - STA. 2+40 TO 4+00 | 99-6738-07 |

RELEASED FOR CONSTRUCTION

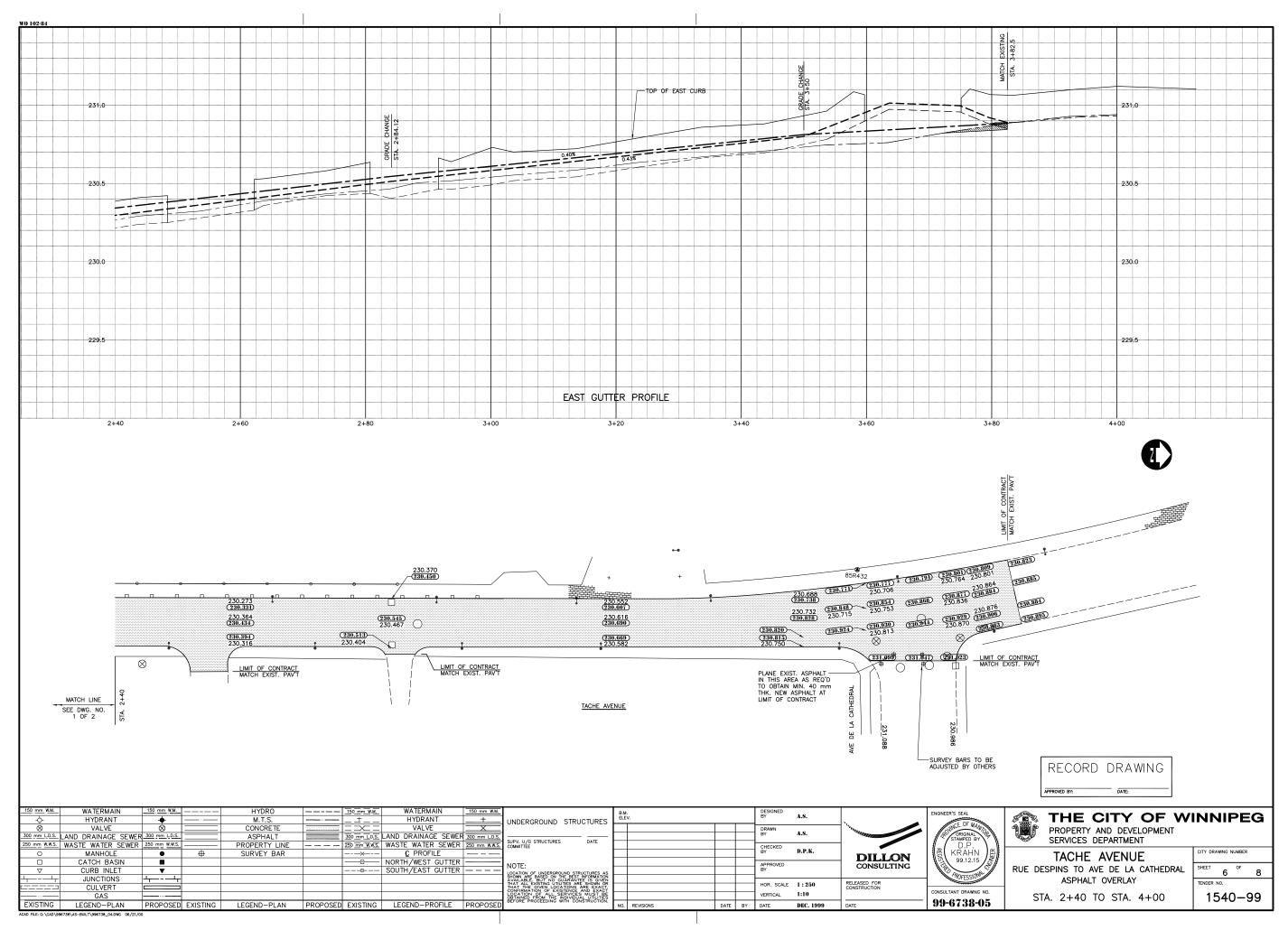
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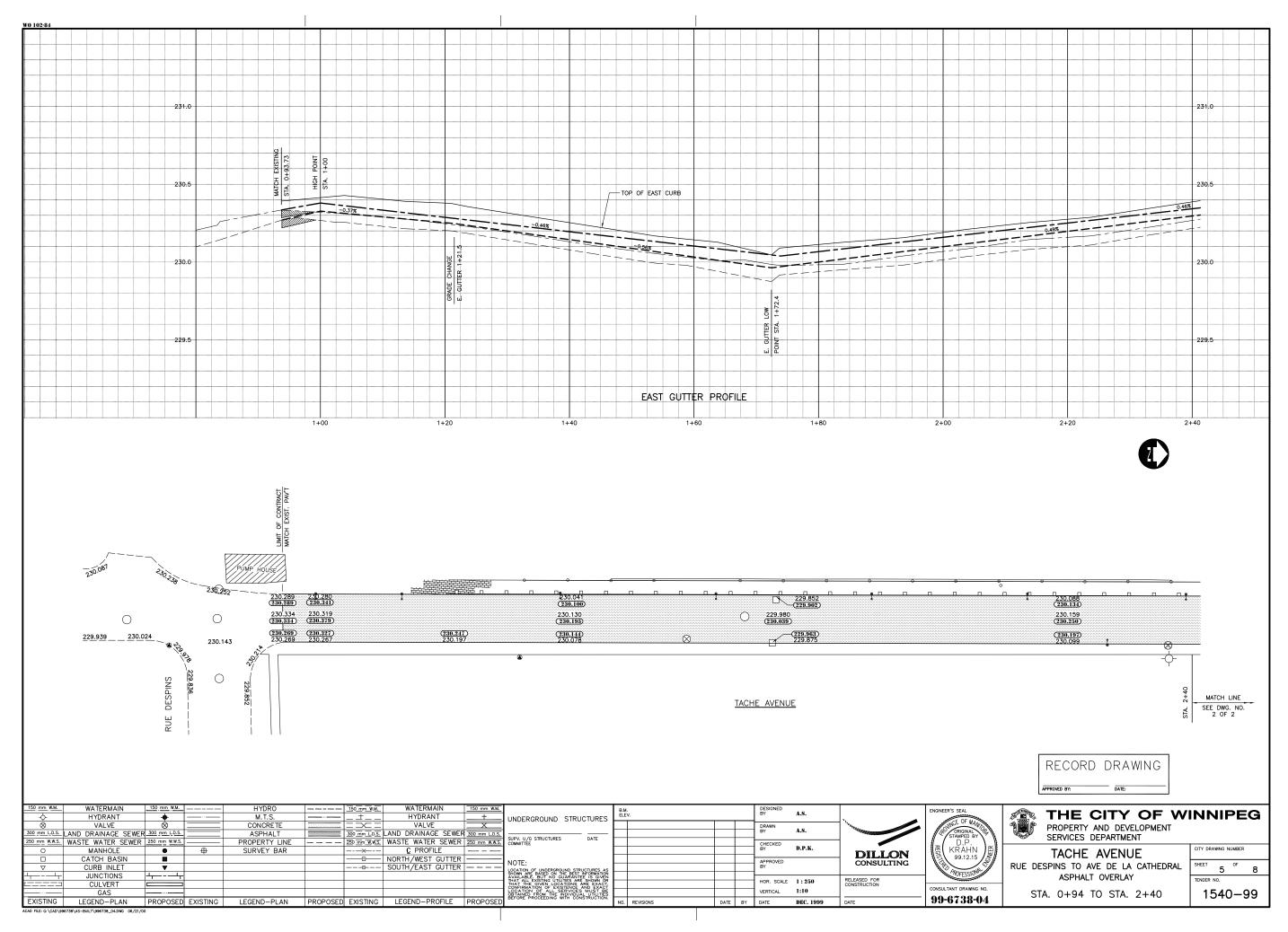
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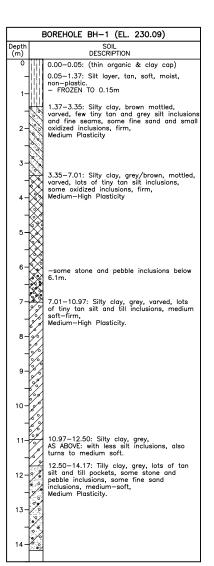
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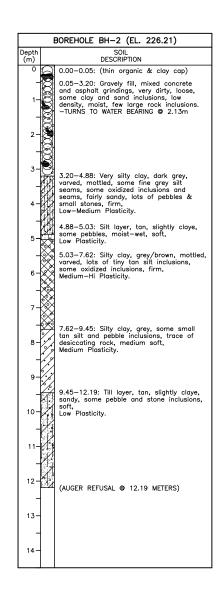


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| Depth | BOREHOLE BH-3 (EL. 227.86) |
|---------------------|--|
| (m) | DESCRIPTION |
| 0 | 0.00-0.05: (thin organic & clay cap) |
| - } | 0.05-3.35: Gravely fill, mixed concrete and asphalt grindings, very dirty, loose, |
| 1_ | and asphalt grindings, very dirty, loose, some clay and sand inclusions, low |
| '7₿ | some clay and sand inclusions, low density, moist, few large rock inclusions. —TURNS TO WATER BEARING © 2.90m |
| - % | - TURNS TO WATER BEARING @ 2.90M |
| 2-1 | ¾ |
| | |
| - } | |
| 3-8 | |
| | 3 35-4 57: Vary citty alay tanny brown |
| -17 | 3.35-4.57: Very silty clay, tanny brown, varved, mottled, some pebble and small stone inclusions, medium soft, |
| 4 | stone inclusions, medium soft, Low-Medium Plasticity. |
| | |
| <u>-</u> <u> </u> | 4.57-5.64: Silty clay, brown, varved, |
| 5- | mottled, some tan silt and small pebble inclusions, few oxidized inclusions, firm, |
| | Medium Plasticity. |
| -\`` | 5.64-6.71: Silty clay, grey/brown, mottled, |
| 6-1 | 5.64-6.71: Silty clay, grey/brown, mottled, varved, some tiny tan silt and pebble inclusions, some oxidized, firm. |
| | Medium—Hi Plasticity. |
| - 12 | 6.71-12.19: Silty clay, grey, some small |
| 7-19 | tan & grey silt inclusions, occasional pebble, medium soft—firm, |
| | Medium-Hi Plasticity. |
| | 7 |
| 8-/ | 9 |
| | |
| 1 | <u>~</u> |
| 9- | |
| <u> </u> } | - Soft - Medium soft below 9.14 m - More tan silt inclusions |
| 1 | 6 |
| 10-12 | |
| | |
| | |
| 11- | <u>^</u> |
| | A |
| · | \mathfrak{A} |
| 12-/ | 12.19-13.41: Till layer, tan, slightly |
| | claye, sandy, some pebble and stone inclusions, soft. |
| | Low Plasticity. |
| 13- | |
| - 2 | (AUGER REFUSAL @ 13.41 METERS) |
| | 1 |

| | BOREHOLE BH-4 (EL. 226.17) |
|--------------|--|
| Depth (m) | SOIL DESCRIPTION |
| 0 | 0.00-0.03: (thin organic cap) |
| | 0.03-1.83: Very silty clay, upper weathered, brown, some rootlet and oxidized inclusions, firm, Low-Medium Plasticity. -TURNS SLIGHTLY WETTER @ 1.37m |
| 2- | 1.83-2.13: Silt layer, tan, soft, moist-wet, Non Plastic. |
| 3-8 | 2.13-4.57: Silty clay, brown, varved, mottled, some tan silt and small pebble inclusions, few oxidized inclusions, trace of alkali, firm, Medium Plasticity. |
| 4- | |
| 5- | 4.57—7.92: Silty clay, grey/brown, mottled, varved, some tiny tan silt and pebble inclusions, some oxidized, firm, Medium—Hi Plasticity. |
| 6-8 | |
| 7- | |
| 8- | 7.92-9.60: Silty clay, grey, lots of tiny tan silt and till inclusion, occasional pebble and stone, firm, Medium-Hi Plasticity. |
| 9- | |
| 10- | 9.60-11.58: Till layer, tan, slightly claye, sandy, some pebble and stone inclusions, soft, Low Plasticity. |
| 11= | |
| 12- | (AUGER REFUSAL @ 11.58 METERS) |
| 13- | |
| - | |
| 14- | |

| 150 m | nm W.M. | WATERMAIN | 150 mm W.M. | | HYDRO | | 150 mm W.M. | WATERMAIN | 150 mm W.M. |
|--------|----------|---------------------|---------------|----------|---------------|---------------|---------------|---------------------|---------------|
| -(| φ- | HYDRANT | • | | M.T.S. | | | HYDRANT | |
| | 8 | VALVE | 8 | | CONCRETE | ************* | = = = | VALVE | X |
| 300 m | m L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | | ASPHALT | | 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. |
| 250 mr | m W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | | PROPERTY LINE | | 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. |
| (| 0 | MANHOLE | • | # | SURVEY BAR | | × | © PROFILE | |
| [| | CATCH BASIN | | | | | | NORTH/WEST GUTTER | |
| , | ∇ | CURB INLET | ▼ | | | | 0 | SOUTH/EAST GUTTER | |
| 4 | | JUNCTIONS | ' | | | | | | |
| | | CULVERT | | | | | | | |
| _ | | GAS | | | | | | | |
| EXIS | STING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED |

| l | UNDERGROUND STRUCTURES | B.M ELE | | | | DESIGNED BY | N/A | |
|---|---|------------|-----------|------|----|----------------|------------|-------|
| 1 | | | | | | DRAWN BY | A.S. | ,,,,, |
| l | SUPV. U/G STRUCTURES DATE COMMITTEE | | | | | CHECKED BY | R.A.W. | |
| ł | | - | | | | | #81/#1 W 1 | |
| 1 | NOTE: LOCATION OF UNDERGROUND STRUCTURES AS | | | | | APPROVED BY | | |
| l | SHOWN ARE BASED ON THE BEST INFORMATION AVAILABLE. BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. | H | | | | HOR. SCALE | N/A | REL |
| 1 | CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION. | | | | | VERTICAL | N/A | |
| l | BEFORE PROCEEDING WITH CONSTRUCTION. | NO. | REVISIONS | DATE | BY | DATE | DEC. 1999 | DAT |



PROPERTY AND DEVELO SERVICES DEPARTMENT

THE CITY OF WINNIPEG PROPERTY AND DEVELOPMENT

RED RIVER EAST BANK
SLOPE RESTORATION ALONG
TACHE AVENUE

RUE DESPINS TO AVE DE LA CATHEDRAL

SOIL LOGS

| SHEET | of 4 | 8 |
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| TENDER ? | vo. | |
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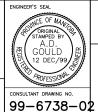
231.0 231.0 $\begin{pmatrix} A \\ 3 \end{pmatrix}$ C TACHE AVENUE RECORD DRAWING 30.0 30.0 CONTRACTOR PRUNED OVERHANGING TREE BRANCHES WEST OF THIS LINE ONLY DATE: - AS-CONSTRUCTED NOTE: DUE TO EARLY RISING WATER LEVELS, 50mm AND DOWN CRUSHED LIMESTONE WERE ELIMINATED AND A 450 THICK LAYER OF RIPRAP WAS PLACED. 29.0 29.0 28.0 28.0 PLACE 300 THICK LAYER OF 200±
RIPRAP ON A 150 THICK FILTER LAYER
OF 50 mm AND DOWN CRUSHED HARD
DENSE LIMESTONE (LIMITS OF RIPRAP)
PLACEMENT SHALL BE THE NORTH AND
SOUTH LIMITS OF ROCK CAISSONS) - 27.0 EXISTING RIVERBANK SLOPE CONTRACTOR BENCHED THE EMBANKMENT TO FACILITATE CAISSON SHAFT DRILLING WALL FACE AT TACHE AVENUE 26.0 26.0 © CAISSON 2500 MAX -1.0 m DEEP COMPACTED CLAY CAP WATER LEVEL ± 23.0 - 23.0 -10.0 m 22.0 22.0 MIN. 50 x 30 EMBED. © MAX. 150 O/C STAINLESS STEEL DRILLED IN FASTENERS C/W S.S. WASHERS (USED 6.5 x 32 mm ZAMAC NAIL IN MUSHROOM HEAD S.S. FASTENER)-- 21.0 21.0 20.0 20.0 - 3.02 m ø ROCK CAISSONS @ 5.0 m O/C FILLED WITH 50 mm & DOWN CRUSHED HARD DENSE LIMESTONE FLEXIBLE CAULKING-MIN. 18 GA. GALVANIZED FLASHING 19.0 19.0 STAINLESS STEEL FASTENERS

MAX. 150 O/C MIN. 1.6 mm THICK (16 GA.— CORRUGATED GALVANIZED STEEL -PLACE RIBS VERTICALLY -VERTICAL SPLICES TO BE FASTENED © 150 WITH S.S. FASTENERS (USED TYPE 410 S.S. SELF TAPPING SCREWS x 26 mm LONG) -PLACE BETWEEN AND BUTT UP TO PILES 17.0 16.0 16.0 -GLACIAL TILL APPROX. ELEV. GRANULAR BACKFILLED 300 WIDE DRAINAGE TRENCH LOCATED AT MAXIMUM 7000 SPACING (LENGTH VARIES 0.5 m TO APPROX. 2.0 m 15.0 75 TOPSOIL -& SOD - 14.0 13.0 1% SLOPE MIN. GRANULAR TOE BACKFILL-MINIMUM WIDTH 45.0 m NOTES: 1. GLACIAL TILL ELEV. 215.4 ± BEAM SKIRT DETAIL
SCALE 1:10 2. CAISSONS TO ELEV. 214.9 ± (MINIMUM 0.5 m INTO TILL, AS CONSTRUCTED)

| 150 mm W.M. | WATERMAIN | 150 mm W.M. | | HYDRO | | 150 mm W.M. | WATERMAIN | 150 mm W.M. | Г |
|----------------------|--------------------------------------|---------------|----------|---------------|----------|---------------|---------------------|---------------|-----|
| φ' | HYDRANT | • | -+- | M.T.S. | | | HYDRANT | | lι |
| 8 | VALVE | 8 | | CONCRETE | | $= \times =$ | VALVE | X | 1 ` |
| 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | | ASPHALT | | 300 mm L.D.S. | LAND DRAINAGE SEWER | 300 mm L.D.S. | 1 - |
| 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | | PROPERTY LINE | | 250 mm W.W.S. | WASTE WATER SEWER | 250 mm W.W.S. | Ìċ |
| 0 | MANHOLE | • | # | SURVEY BAR | | × | © PROFILE | | 1 |
| | CATCH BASIN | | | | | | NORTH/WEST GUTTER | | ١, |
| ∇ | CURB INLET | ▼ | | | | 0 | SOUTH/EAST GUTTER | | l |
| | JUNCTIONS | | | | | | | | S |
| | CULVERT | | | | | | | | Į |
| | GAS | | | | | | | | Ìě |
| EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PLAN | PROPOSED | EXISTING | LEGEND-PROFILE | PROPOSED | ľ |
| ACAD FILE: G:\CAD\99 | 96738\AS-BUILT\996738 02.DWG 06/21/0 | Ò | | | | | | | _ |

| <u>۱.</u> | UNDERGROUND STRUCTURES | B.M ELE | | | | DESIGNED BY | A.D.G./R.A.W. | ١, |
|-----------|---|------------|-----------|------|----|------------------------|----------------------|--------|
| S. | SUPV. U/G STRUCTURES DATE | | | | | DRAWN BY | A.S. | ,,,,,, |
| S. | COMMITTEE | | | | | CHECKED BY | R.A.W. | |
| = | NOTE: LOCATION OF UNDERGROUND STRUCTURES AS SHOWN ARE BASED ON THE BEST INFORMATION | | | | | APPROVED BY | | |
| | AVAILABLE, BUT NO GUARANTEE IS GIVEN THAT ALL EXISTING UTILITIES ARE SHOWN OR THAT THE GIVEN LOCATIONS ARE EXACT. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES | | | | | HOR. SCALE VERTICAL | AS SHOWN AS SHOWN | RELI |
| D | | NO. | REVISIONS | DATE | BY | DATE | DEC. 1999 | DATE |
| T | | | | | | | | |

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| DILLON CONSULTING | |
| RELEASED FOR CONSTRUCTION | С |



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| ORIGINAL AMPED BY A.D. | |
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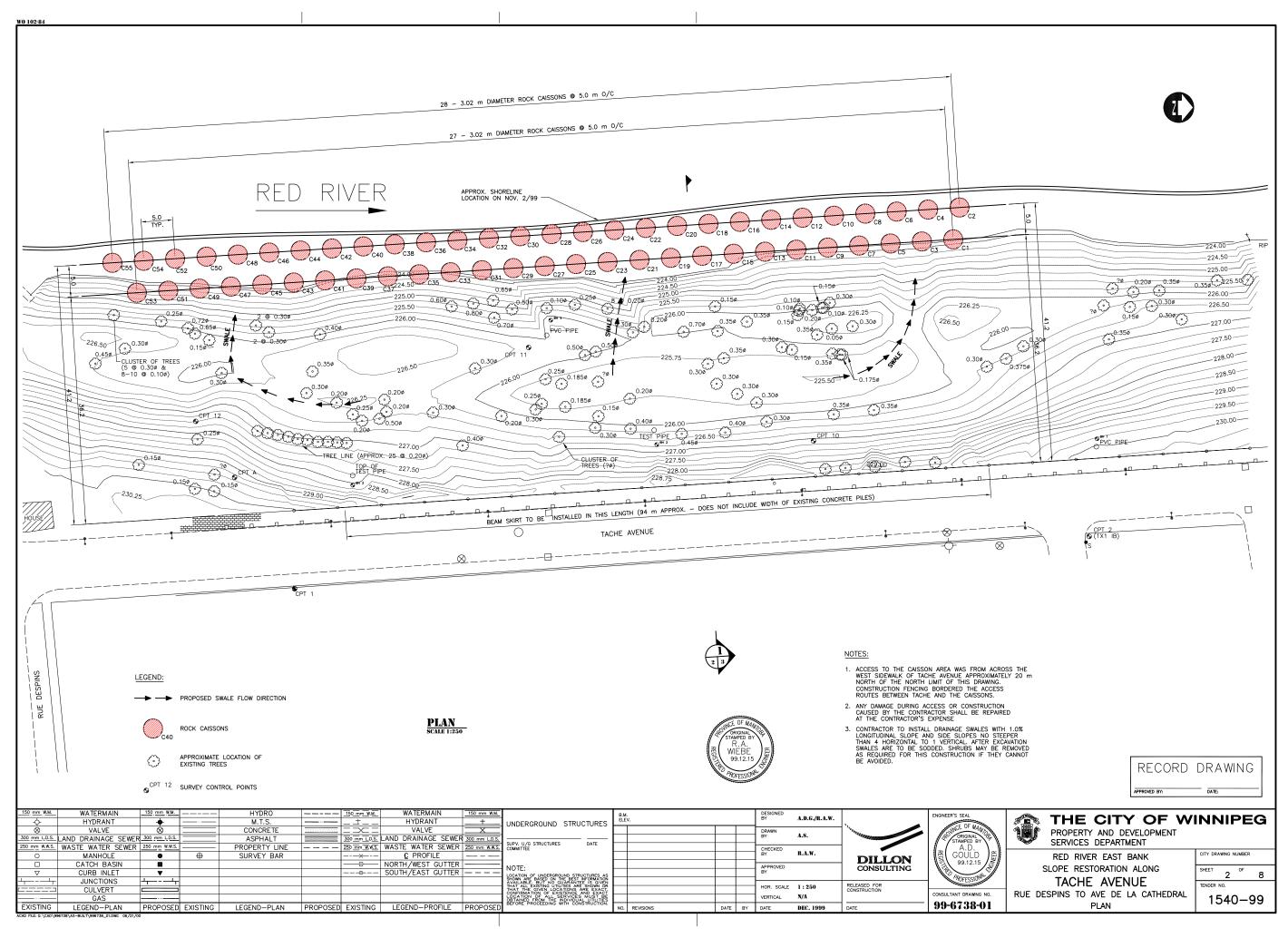
THE CITY OF WINNIPEG ROPERTY AND DEVELOPMENT ERVICES DEPARTMENT

RED RIVER EAST BANK SLOPE RESTORATION ALONG TACHE AVENUE RUE DESPINS TO AVE DE LA CATHEDRAL

SECTION AND DETAILS

| CITY DRAWING | NUMBER | |
|--------------|--------|---|
| SHEET 3 | OF OF | 8 |
| TENDER NO. | | |
| 154 | -0-9 | 9 |

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