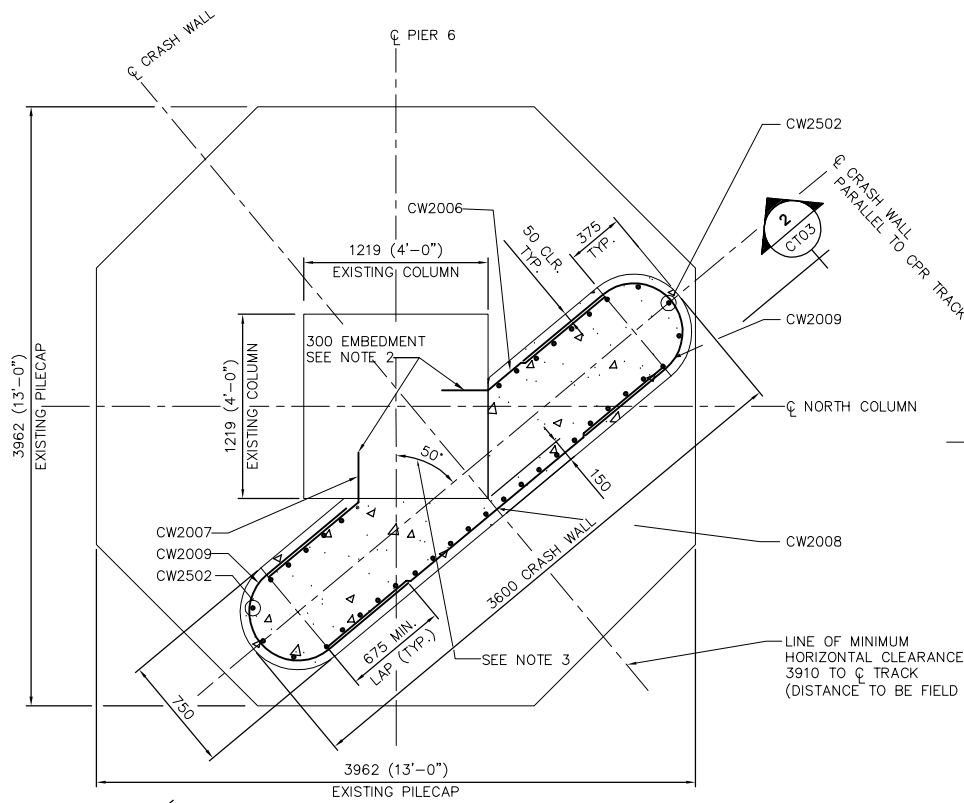
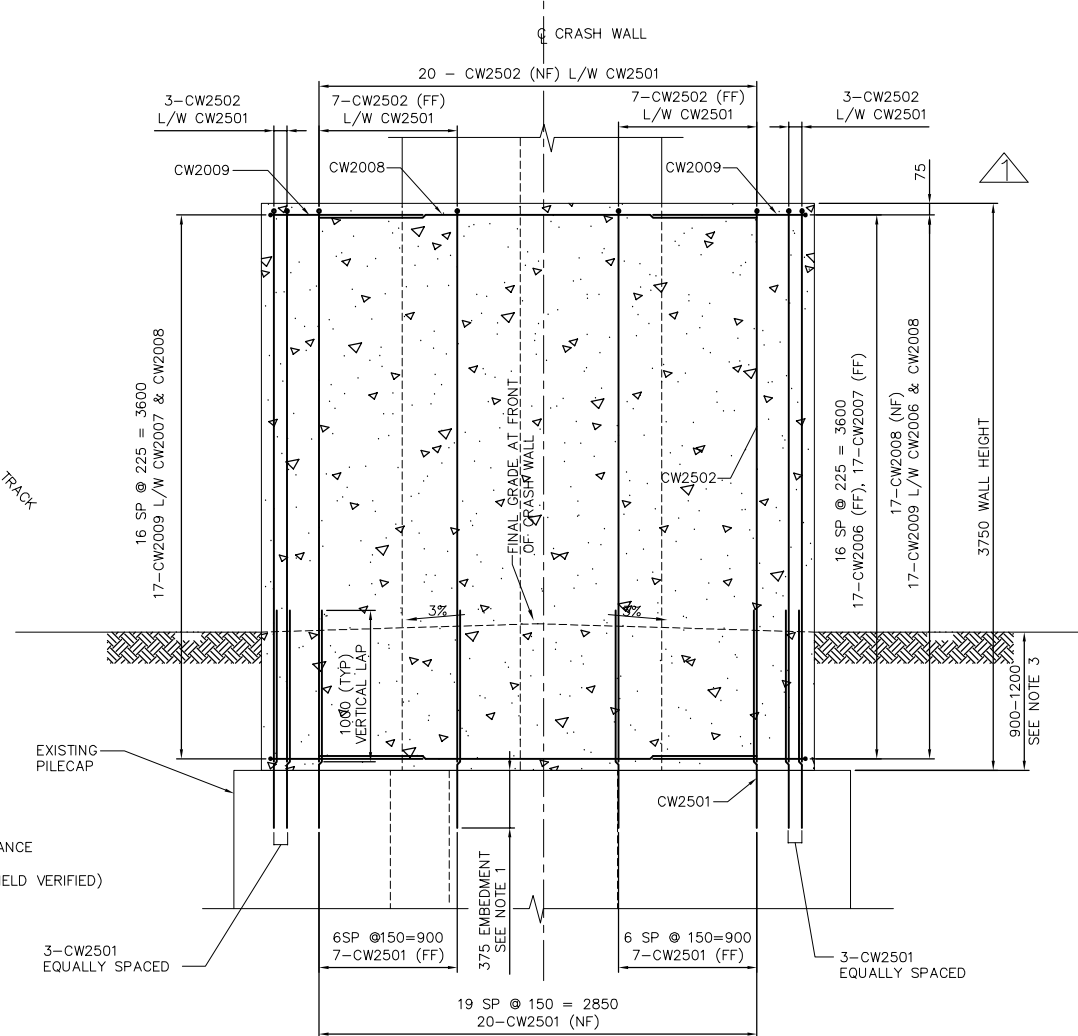


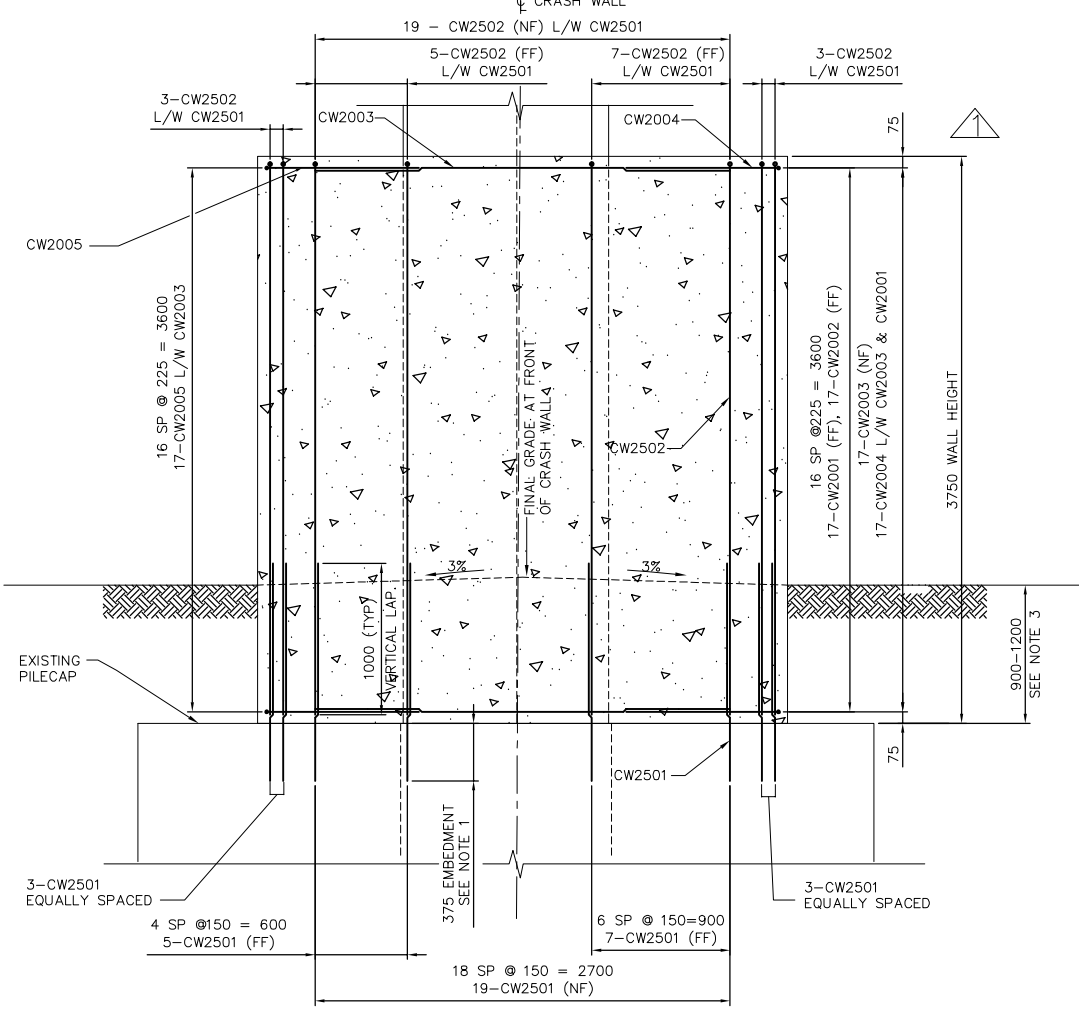
A DETAIL
CT02 SCALE 1:25



B DETAIL
CT02 SCALE 1:25



2 SECTION
CT03 SCALE 1:25



1 SECTION
CT03 SCALE 1:25

| REINFORCING SCHEDULE PIER 5 - NORTH COLUMN | | | | |
|--|----------|----------------|-----------------|---------------|
| BAR MARK | BAR SIZE | NUMBER OF BARS | BAR LENGTH (mm) | BAR MASS (kg) |
| CW2001 | 20M | 17 | 1000 | 40 |
| CW2002 | 20M | 17 | 1275 | 51 |
| CW2003 | 20M | 17 | 2700 | 108 |
| CW2004 | 20M | 17 | 2675 | 107 |
| CW2005 | 20M | 17 | 2225 | 89 |
| CW2501 | 25M | 37 | 1450 | 210 |
| CW2502 | 25M | 37 | 4050 | 602 |
| TOTAL BAR MASS = | | | 1207 kg | |
| CONCRETE VOLUME = | | | 8.53m³ | |

| REINFORCING SCHEDULE PIER 6 - NORTH COLUMN | | | | |
|--|----------|----------------|-----------------|---------------|
| BAR MARK | BAR SIZE | NUMBER OF BARS | BAR LENGTH (mm) | BAR MASS (kg) |
| CW2006 | 20M | 17 | 1300 | 52 |
| CW2007 | 20M | 17 | 1050 | 42 |
| CW2008 | 20M | 17 | 2850 | 114 |
| CW2009 | 20M | 34 | 2375 | 190 |
| CW2501 | 25M | 40 | 1450 | 227 |
| CW2502 | 25M | 40 | 4050 | 651 |
| TOTAL BAR MASS = | | | 1276 kg | |
| CONCRETE VOLUME = | | | 8.70m³ | |

LEGENDS:
 FF - FAR FACE
 NF - NEAR FACE
 EF - EACH FACE
 L/W - LAP WITH

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 No. 730 Expiry: April 30, 2007

| | |
|---|---|
| EarthTech A Tyco International Ltd. Company | |
| DESIGNED BY: AP | CHECKED BY: JEB |
| DRAWN BY: LD | APPROVED BY: |
| HOR. SCALE: AS NOTED | RELEASED FOR CONSTRUCTION BY: B. NEIRINCK, P.Eng. |
| VERTICAL: AS NOTED | |
| 01 ISSUED FOR ADDENDUM 06/08/31 KC | |
| 00 ISSUED FOR TENDER 06/08/15 JEB | |
| NO. REVISIONS | DATE BY |
| | DATE 2006/04/12 DATE 2006/08/15 |

ENGINEER'S SEAL
 PROVINCE OF MANITOBA
 ORIGINAL SIGNED BY
POCHANART
 3007
 15/08/06
 REGISTERED PROFESSIONAL ENGINEER

THE CITY OF WINNIPEG
 PUBLIC WORKS DEPARTMENT
 ENGINEERING DIVISION

SAFETY IMPROVEMENTS AT THE NAIRN AVENUE OVERPASS

BID OPPORTUNITY 281-2006
 SHEET 3 OF 4
 CITY DRAWING NUMBER **B121-06-03**

CRASH WALL DETAILS AND SCHEDULES PIER 5 AND PIER 6 NORTH COLUMNS

- NOTES:**
- DRILL AND ANCHOR REINFORCING STEEL BARS TO EXISTING PILECAP USING EPOXY ADHESIVE, SEE SPECIFICATIONS.
 - DRILL AND ANCHOR REINFORCING STEEL BARS TO EXISTING COLUMN USING EPOXY ADHESIVE, SEE SPECIFICATIONS.
 - TO BE FIELD VERIFIED.