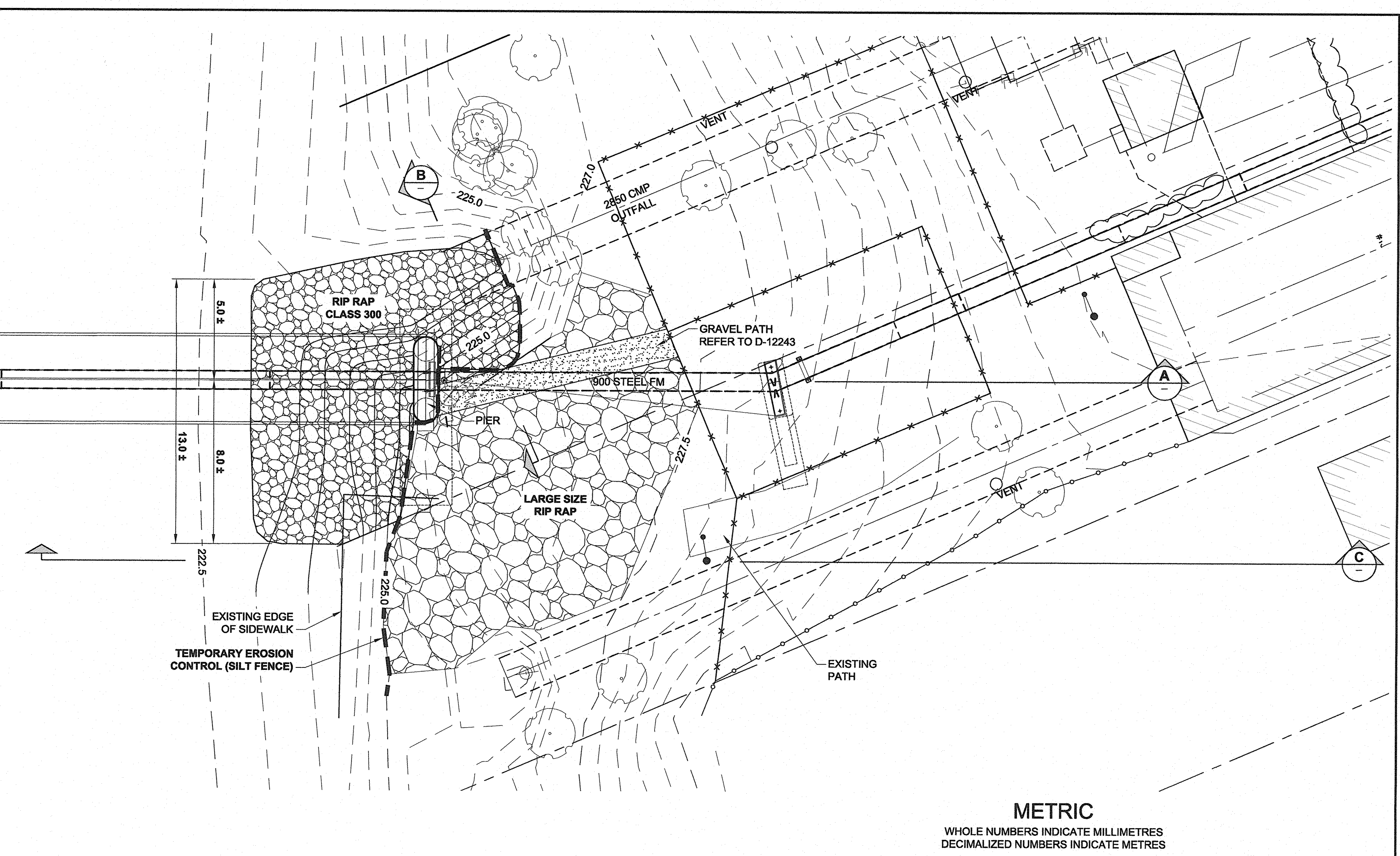
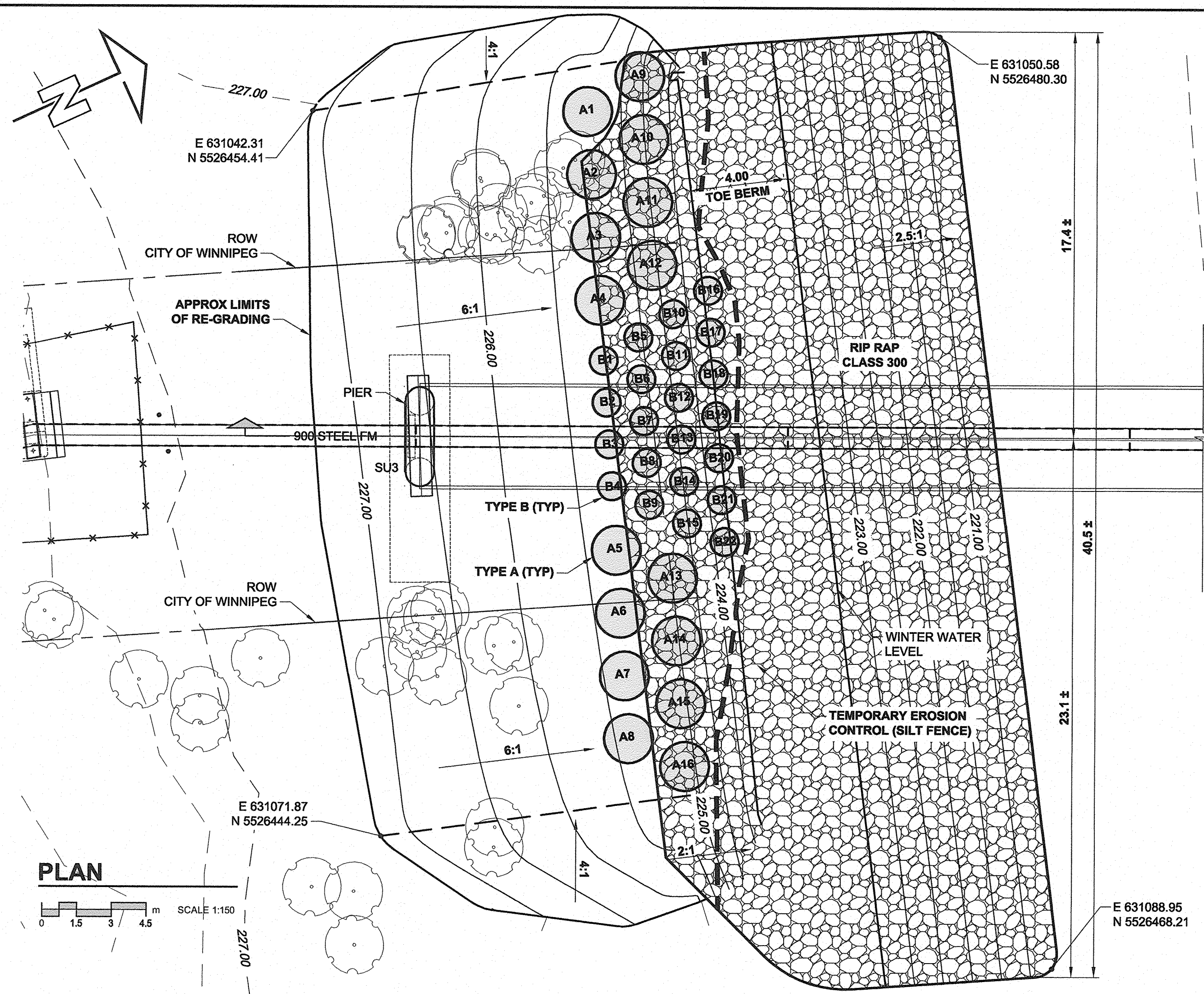


D SIZE 22" x 34" (559mm x 864mm)

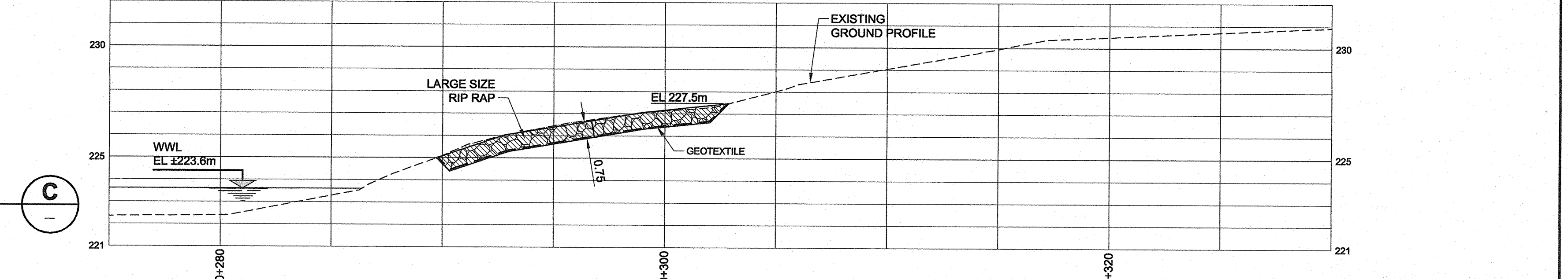
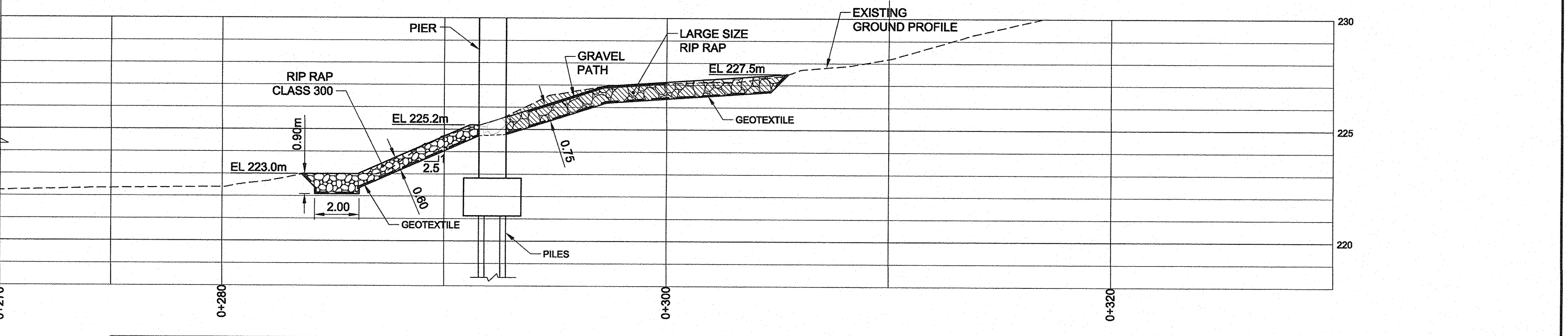
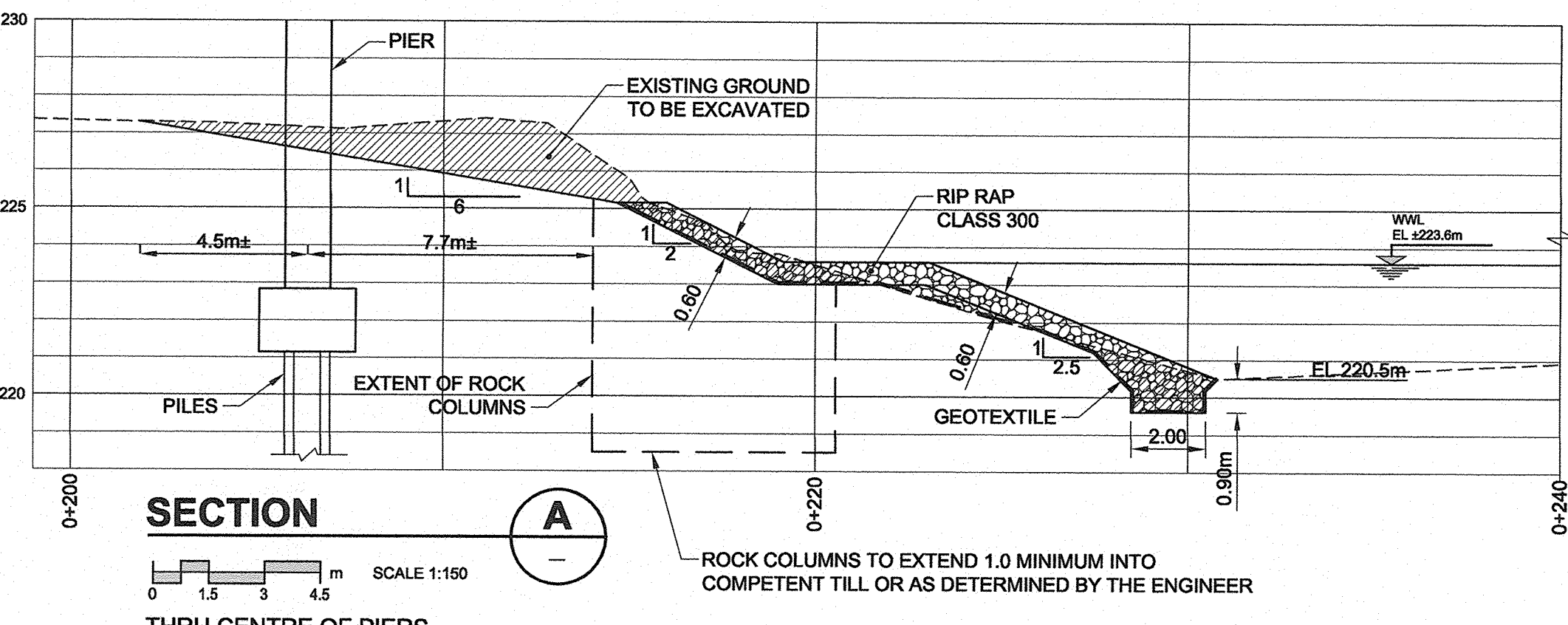
PLOT: 11/22/2012 9:15:24 AM

AECOM REVIEW DRAFT CHK  
AECOM FILE NAME: D265-230-02\_01-B-1002\_RX.dwg Saved By: JGIBSON



**ROCK COLUMN COORDINATES**

| ID  | EASTING   | NORTHING   |
|-----|-----------|------------|
| A1  | 631047.23 | 5526465.17 |
| A2  | 631049.76 | 5526464.22 |
| A3  | 631052.28 | 5526463.27 |
| A4  | 631054.81 | 5526462.32 |
| A5  | 631064.87 | 5526458.53 |
| A6  | 631067.40 | 5526457.58 |
| A7  | 631069.93 | 5526456.63 |
| A8  | 631072.46 | 5526455.68 |
| A9  | 631046.79 | 5526467.83 |
| A10 | 631049.32 | 5526466.88 |
| A11 | 631051.84 | 5526465.93 |
| A12 | 631054.37 | 5526464.98 |
| A13 | 631066.96 | 5526460.25 |
| A14 | 631069.49 | 5526459.30 |
| A15 | 631072.02 | 5526458.35 |
| A16 | 631074.54 | 5526457.40 |
| B1  | 631057.25 | 5526461.40 |
| B2  | 631058.93 | 5526460.77 |
| B3  | 631060.62 | 5526460.14 |
| B4  | 631062.30 | 5526459.50 |
| B5  | 631056.95 | 5526463.18 |
| B6  | 631058.64 | 5526462.54 |
| B7  | 631060.32 | 5526461.91 |
| B8  | 631062.01 | 5526461.28 |
| B9  | 631063.69 | 5526460.64 |
| B10 | 631056.66 | 5526464.95 |
| B11 | 631058.34 | 5526464.32 |
| B12 | 631060.03 | 5526463.69 |
| B13 | 631061.71 | 5526463.05 |
| B14 | 631063.40 | 5526462.42 |
| B15 | 631065.08 | 5526461.79 |
| B16 | 631058.36 | 5526466.73 |
| B17 | 631058.05 | 5526466.09 |
| B18 | 631059.73 | 5526465.46 |
| B19 | 631061.42 | 5526464.83 |
| B20 | 631063.10 | 5526464.19 |
| B21 | 631064.79 | 5526463.56 |
| B22 | 631066.47 | 5526462.93 |



**LEGEND**

- EXISTING GROUND PROFILE
- PROPOSED GROUND PROFILE
- GEOTEXTILE
- TEMPORARY EROSION CONTROL
- EXISTING GROUND TO BE EXCAVATED
- RIP RAP CLASS 300
- LARGE SIZE RIP RAP (600 - 750mm)
- CLAY FILL

- NOTES:**
- NO WORK SHALL BE PERFORMED IN PRIVATE PROPERTY WITHOUT THE APPROVAL OF THE CONTRACT ADMINISTRATOR.
  - TYPE 'B' ROCK COLUMNS WILL BE INSTALLED UNDER THE EXISTING BRIDGE. THE HEADROOM BELOW THE BRIDGE IS 6.3m.
  - 300 COMPACTED CLAY PLUG SHALL BE PLACED ABOVE ROCK COLUMN AREA AS SPECIFIED.
  - REFER TO SUBSURFACE PROFILE (DWG No. D-12240) AND AECOM TEST HOLE LOGS FOR SUBSURFACE CONDITIONS.
  - REFER TO REVEGETATION PLAN DRAWINGS FOR SITE RESTORATION & SITE REVEGETATION.



**LOCATION APPROVED UNDERGROUND STRUCTURES**

SUPR. U/G STRUCTURES COMMITTEE DATE

**NOTE:**  
LOCATION OF UNDERGROUND STRUCTURES AS 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. CONFIRMATION OF EXISTENCE AND EXACT LOCATION OF ALL SERVICES MUST BE OBTAINED FROM THE INDIVIDUAL UTILITIES BEFORE PROCEEDING WITH CONSTRUCTION.

| NO. | REVISIONS                  | DATE     | BY  |
|-----|----------------------------|----------|-----|
| 1   | RE-ISSUED FOR CONSTRUCTION | 12/10/24 | CLC |
| 0   | ISSUED FOR CONSTRUCTION    | 11/05/09 | LVJ |

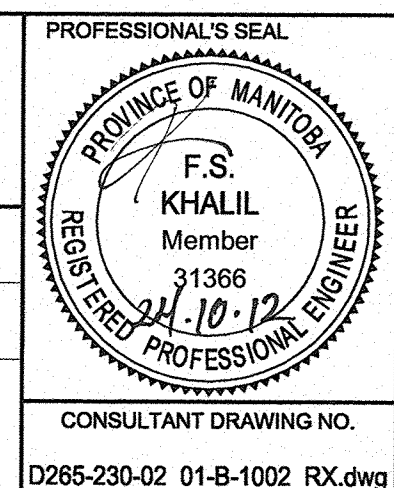
**AECOM**

DESIGNED BY: OE  
DRAWN BY: QRC

CHECKED BY: Z  
APPROVED BY: [Signature]

HOR. SCALE: 1:150  
VERT. SCALE: NA

RELEASED FOR CONSTRUCTION DATE



**THE CITY OF WINNIPEG WATER AND WASTE DEPARTMENT**

**REHABILITATION / REPLACEMENT OF THE MID TOWN FEEDERMAIN AT THE ASSINIBOINE RIVER**

GEOTECHNICAL  
EROSION PROTECTION PLAN AND CROSS-SECTIONS

SHEET 16 OF 19  
CITY DRAWING NUMBER  
REV  
**D-12241**

CONSULTANT DRAWING NO. D265-230-02\_01-B-1002\_RX.dwg

BID OPPORTUNITY NO. 830-2012