

LEGEND



GRANULAR FILL



MINIMUM WIDTH OF REINFORCING STRIP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETRES UNLESS OTHERWISE SHOWN



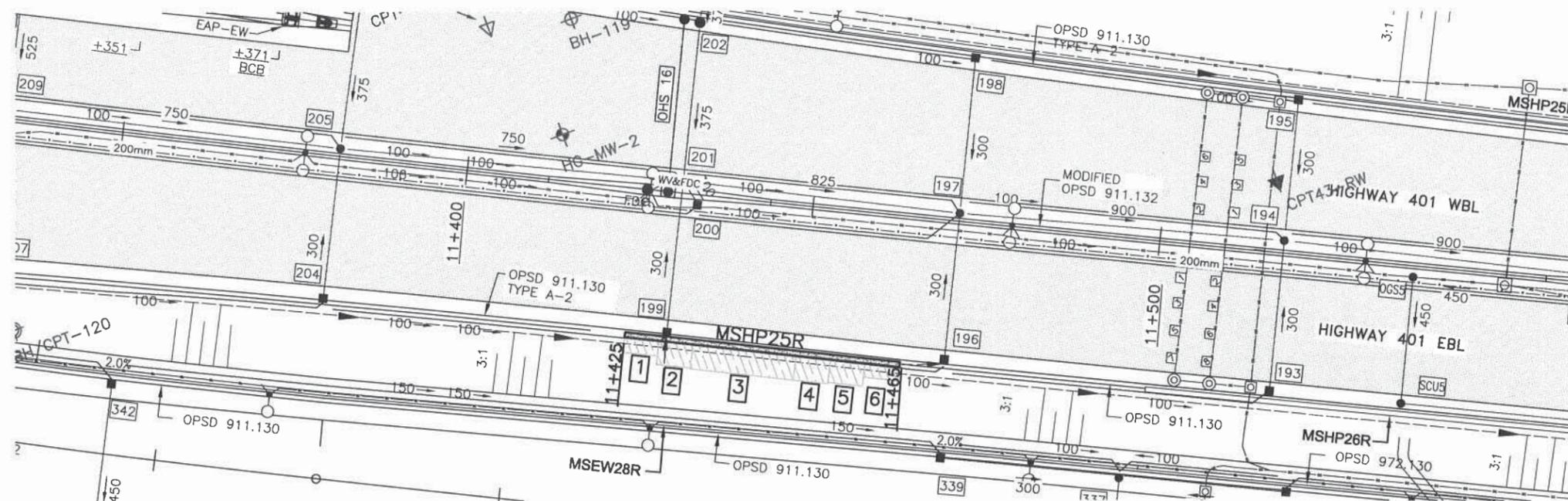
Windsor-Essex Parkway Project RFP No. 09-54-1007



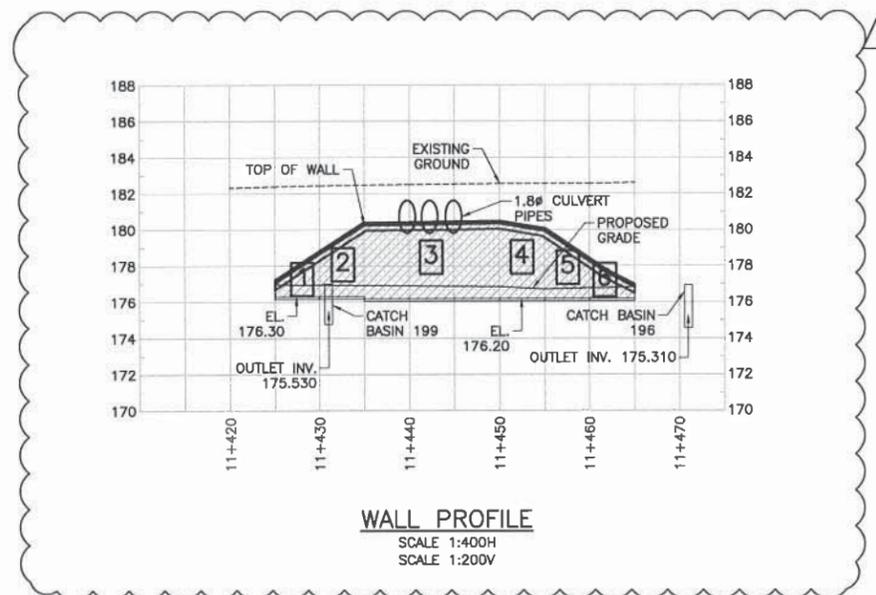
NEW CONSTRUCTION
HWY 401 - STA 11+425 TO 11+465
RETAINING WALL MSHP25R
GENERAL ARRANGEMENT

SHEET
S7255

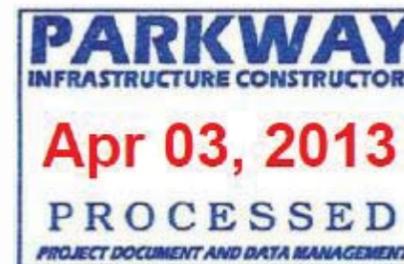
Phase 1
IFD



PLAN
SCALE 1:400



WALL PROFILE
SCALE 1:400H
SCALE 1:200V



NOTES:

- THE DRAWINGS SHOULD BE READ IN CONJUNCTION WITH THE GEOTECHNICAL REPORT (285380-04-119-0120) AND MEMO (285380-04-126-0087)
- THE EMBEDMENT DEPTH OF RSS WALL AND THE LENGTH OF EACH RSS WALL BLOCK SHOWN ARE GENERAL-ARRANGEMENT DESIGN. FOR RSS WALL DESIGN, THE MINIMUM EMBEDMENT DEPTH OF RSS WALL SHALL BE 0.6m. THE LENGTH OF EACH RSS WALL BLOCK CAN BE MODIFIED PROVIDED THAT THE MINIMUM EMBEDMENT DEPTH IS 0.6m
- THE MINIMUM REINFORCING STRIP WIDTH SHALL BE 0.9 TIMES THE TOTAL RSS WALL HEIGHT FOR BLOCK 1, 0.95 TIMES FOR BLOCK 2, 0.85 TIMES FOR BLOCKS 3 TO 5 UNLESS SPECIFIED.
- THE SLOPE IN FRONT OF THE RSS WALL SHALL BE MAINTAINED WITHOUT ANY SLOUGHING/EROSION AT ALL TIMES.
- REFER TO HWY DRAWINGS FOR ALL HIGHWAY INFORMATION INCLUDING THE LOCATION OF DRAINS AND CATCH BASINS.
- THE FACTOR OF SAFETY AGAINST EXTERNAL MODES OF FAILURE FOR RSS WALLS SHALL BE AS PER CANADIAN FOUNDATION ENGINEERING MANUAL (CFEM).
- APPROVED RSS WALL SUPPLIER TO REFER TO UTILITIES NEW CONSTRUCTION DRAWINGS AND CONFIRM LOCATION OF ALL UTILITIES. RSS WALL DESIGN SHALL ACCOUNT FOR ALL INTERFERENCE WITH UTILITIES.
- FOR INFORMATION ON EXISTING PAVEMENT AND INFRASTRUCTURE REFER TO HIGHWAYS REMOVAL DRAWINGS AND GENERAL NOTES PROVIDED WITHIN HIGHWAY REMOVALS DRAWING PACKAGE.
- CONTRACTOR AND WALL MANUFACTURER TO CONFIRM ALL LOADS FOR OVERHEAD SIGN AND LIGHT STANDARD.
- REFER TO GENERAL SOIL NOTES (SHEET S7101).
- REFER TO THE TRAILS PACKAGE FOR NOISE WALL DETAILS.

DRAINAGE:

- REFER TO DRAINAGE DRAWINGS FOR ALL DRAINS, CATCH BASINS & CONNECTION FOR RETAINING WALL RELATED DRAINS.
- REFER TO UTILITY PLANS PRIOR TO COMMENCING CONSTRUCTION.
- LOCATION OF CATCH BASIN AND MANHOLES AS SHOWN ARE INDICATIVE ONLY. REFER TO DRAINAGE SUPPLEMENTAL INFORMATION.
- CONNECT RSS SUBDRAIN(S) AND PROVIDE A POSITIVE OUTLET TO THE SEWER AT INTERVALS NO FURTHER THAN EVERY 80m. PROVIDE HIGH-POINTS APPROXIMATELY MID-WAY BETWEEN OUTLETS.

UTILITIES:

- REFER TO ELECTRICAL AND ATMS DRAWINGS FOR LOCATION, SITE & CONNECTION DETAILS FOR LIGHTING, POWER AND TRAFFIC MANAGEMENT.
- INSTALLATION OF ELECTRICAL MANHOLE TO BE COORDINATED WITH THE WALL MANUFACTURER AND TO BE INSTALLED DURING THE WALL INSTALLATION NOT EXCAVATED AFTERWARDS.

LANDSCAPING:

- FOR AESTHETIC TREATMENTS ON RETAINING WALLS SEE LANDSCAPING AND URBAN DESIGN TEAM SUBMISSION SHEET 7104 THE AESTHETIC FINISHES WESTERN PORTION, SHEET 7105 AESTHETIC FINISHES EASTERN PORTION AND SHEET 7106 PATTERN DETAILS - TREE TRUNK.

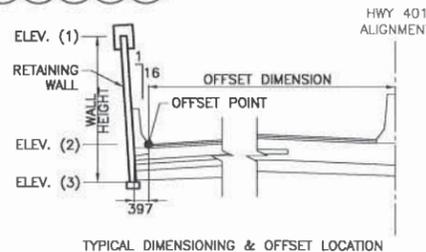
RETAINED SOIL SYSTEM:

- RSS WALL SHALL BE DESIGNED AND CONSTRUCTED IN ACCORDANCE WITH THE 'MTD RSS DESIGN GUIDELINES' AND SPECIAL PROVISIONS SP599522 AND SP599523.
- REFER TO RSS CONSTRUCTION NOTES-BACKFILL AT STRUCTURES (SHEET S7102).
- RSS WALLS SHALL HAVE FOLLOWING ATTRIBUTES:
APPLICATION: RETAINING WALL
PERFORMANCE: HIGH
APPEARANCE: HIGH

- EPOXY COATED REINFORCEMENT SHALL BE USED IN THE FRONT SURFACE OF RSS PANELS AND ALL RSS COPING FOR ANY WALL WITHIN THE SPLASH ZONE. THIS INCLUDES PANEL SURFACES AND COPING WITHIN 10m OF AN EXISTING OR FUTURE ROADWAY, MEASURED HORIZONTAL FROM THE EDGE OF PAVEMENT UNLESS THE SURFACE IS MORE THAN 5m ABOVE THE ROADWAY.
- LIMIT OF EXCAVATION AND TEMPORARY WORK TO BE CONFIRMED AND DESIGNED BY THE CONTRACTOR.

STATION	OFFSET FROM HWY 401 ALIGNMENT	WALL ELEVATION		
		TOP (1)	FINISHED GRADE (2)	BOTTOM (3)
11+425	20.35	177.04	176.96	176.3
11+430	20.35	178.64	178.94	176.3
11+435	20.36	179.24	178.91	176.3
11+450	20.45	180.34	176.83	176.2
11+455	20.50	179.92	176.80	176.2
11+460	20.56	178.24	176.77	176.2
11+465	20.63	176.82	176.82	176.2

OFFSETS TAKEN FROM HIGHWAY 401 CONTROL LINE
*WALL DIRECTION CHANGE



TYPICAL DIMENSIONING & OFFSET LOCATION

WALL SUMMARY

EXPOSED WALL FACE AREA.....	100.35m ²
TOTAL WALL FACE AREA.....	125.17m ²
TOTAL WALL LENGTH (MEASURED).....	39.78m
TOTAL WALL LENGTH (STATION).....	40.0m
AVERAGE TOTAL WALL HEIGHT.....	3.15m

DRAWING NOT TO BE SCALED
100mm ON ORIGINAL DRAWING



REVISIONS	DATE	REV.	BY	DESCRIPTION
27-MAR-13	2	AM	RF1288	PROFILE UPDATE
07-MAR-13	1	AM	RF1288	WALL OPTIMIZATION
07-SEP-12	0	DM		ISSUED FOR RSS WALL DESIGN

DESIGN	AM	CHK	DM	CODE	CHBDC S6-06/LOAD	CL-625-ONT
DRAWN	LB	CHK	AM	SITE	MSHP25R	DATE 30-JUN-11

DOC: 285380-03-060-SEG1-7255

PL-0-107

MINISTRY OF TRANSPORTATION, ONTARIO

DATE PLOTTED: 3/27/2013 2:56:28 PM
FILE LOCATION: C:\neworking\hmm\285380\03-060-SEG1-7255.dwg