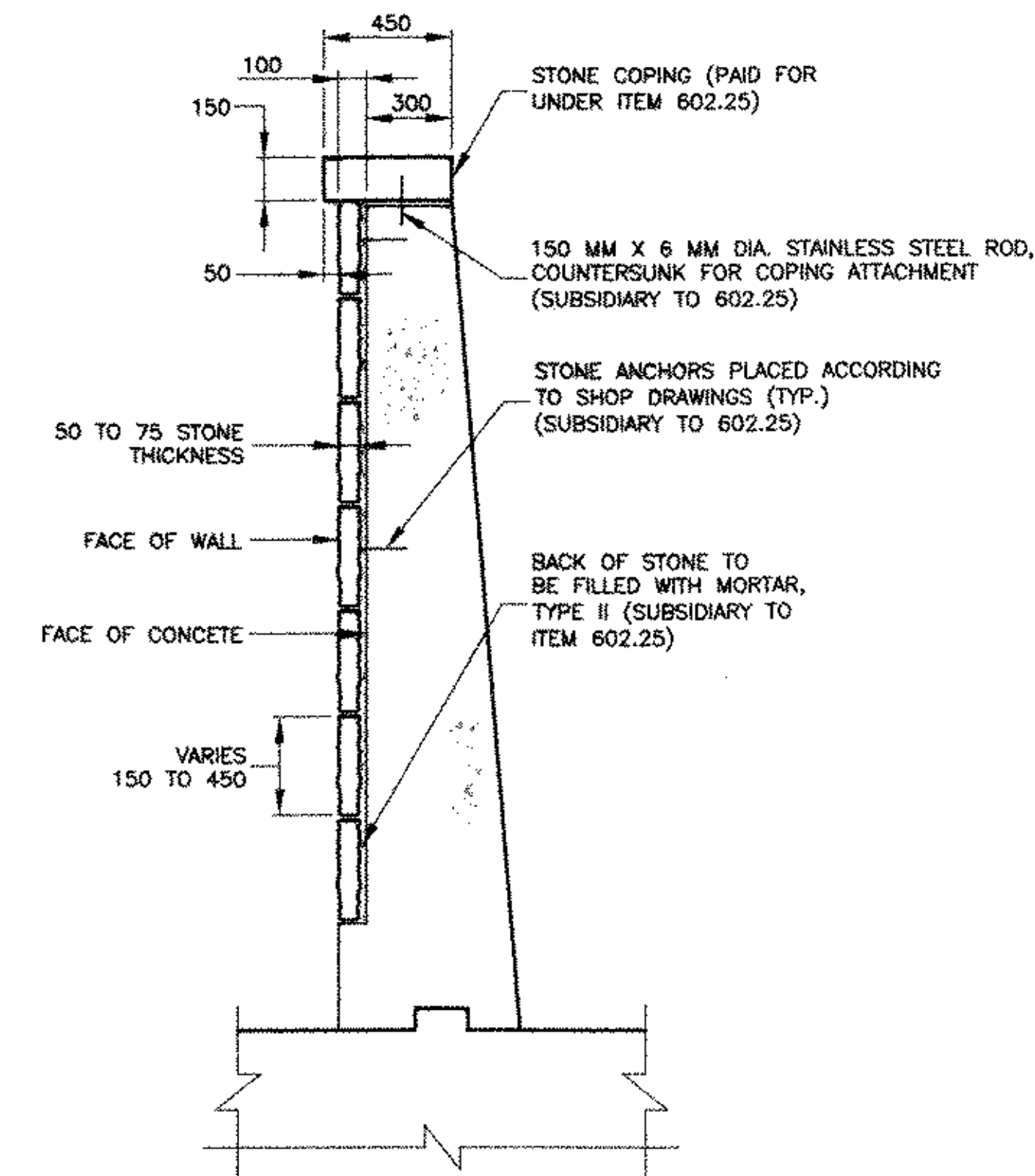


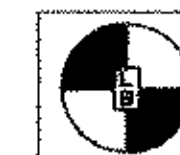
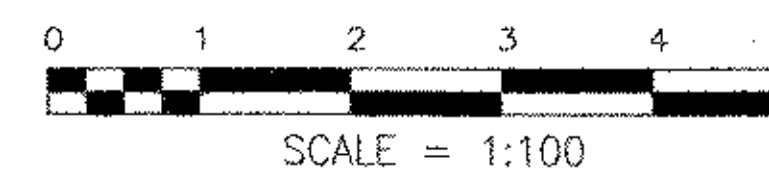
STONE MASONRY NOTES:

1. STONE FACING AND STONE COPING SHALL BE PAID UNDER ITEM 602.25 "STONE MASONRY FACING." THE UNIT BID PRICE SHALL BE FULL COMPENSATION FOR ALL MATERIALS, EQUIPMENT, AND LABOR NECESSARY.
2. ALL EXPOSED FACES OF WALLS SHALL BE FACED WITH STONE UNLESS NOTED OTHERWISE. THE STONE FACING SHALL EXTEND BELOW GROUND TO THE SHELF ELEVATION SHOWN ON THE PLANS.
3. LAYOUT DIMENSIONS SHOWN ON THE PLANS ARE TO THE OUTSIDE FACE OF THE STONE FACING OR TO THE FACE OF CONCRETE IF NO STONE FACING IS PRESENT. ADDITIONAL DIMENSIONS NEEDED BY THE CONTRACTOR WILL BE SUPPLIED UPON REQUEST.
4. ALL STONE SHALL BE DARK WARM GRAY COLOR STONE AND BE IN ACCORDANCE WITH SUBSECTION 706.02 "STONE FOR MASONRY FACING." ALL STONE SHALL BE CONSISTENT IN COLOR AND TAKEN FROM THE SAME QUARRY. BLUE-GRAY BLASTED SLATE LEDGE WILL NOT BE ACCEPTED. THE NAME OF THE QUARRY SHALL BE SUBMITTED TO THE RESIDENT ENGINEER. THE STONE SHALL BE SIMILAR IN LOOK AND APPEARANCE TO THE WALL CONSTRUCTED AT THE INTERSECTION OF PLEASANT VALLEY ROAD AND ROUTE 121.
5. THE STONE SHALL BE CLASSIFIED AS IRREGULAR WITH A "ROUGH FINISH" (SURFACES IN WHICH THE VARIATIONS FROM THE PITCH LINE DO NOT EXCEED 13mm). THE NOMINAL DIMENSIONS OF THE STONES WILL BE 150mm TO 450mm VERTICAL, 300mm TO 1000mm HORIZONTAL AND 50 TO 75mm THICK. VERTICAL DIMENSION MAY VARY WITHIN EACH STONE. A VARIETY OF STONE SIZES WITHIN THE GIVEN LIMITS SHALL BE PROVIDED. THE PATTERN SHALL BE RANDOM AS SHOWN ON THE DETAIL ON THIS SHEET. THE STAGGERED STONE PATTERN MUST BE MAINTAINED OVER ANY HORIZONTAL CONSTRUCTION JOINTS IN THE CONCRETE.
6. STONE COPING SHALL BE SQUARED WITH A ROUGH FINISH. STONE COPINGS SHALL BE A UNIFORM THICKNESS OF 200mm, 450mm WIDE AND LENGTHS OF 1.0-2.0M. COPING JOINTS SHALL BE 13mm MAX THICKNESS.
7. THE JOINT MATERIAL SHALL CONFORM TO SPECIFICATIONS IN ITEM 707.02 "MORTAR, TYPE II". THE MAXIMUM JOINT THICKNESS SHALL BE 25mm. JOINT RECESSES SHALL BE 50mm MIN. FROM FACE OF WALL AND 75mm MAX. THE SPACE BETWEEN THE BACK FACE OF STONE AND THE FRONT FACE OF THE CONCRETE SHALL BE COMPLETELY FILLED WITH MORTAR, TYPE II. PROVIDE ACRYLIC ADMIXTURE TO MORTAR MIX BY "SIL-PRO" OR APPROVED EQUAL. PROVIDE SAMPLE FOR COLOR & APPLICATION, SEE NOTE 18.
8. ANCHORS CONNECTING THE STONE TO THE CONCRETE SHALL BE PLACED ACCORDING TO SHOP DRAWINGS SUPPLIED FROM THE GENERAL CONTRACTOR OR THE SUBCONTRACTOR PERFORMING MASONRY WORK. TYPICAL STONE PLACEMENT AROUND SHARP CORNERS SHALL ALSO BE SHOWN ON SHOP DRAWINGS. THE MASONRY CONTRACTOR SHALL BE ABLE TO DEMONSTRATE 3 YEARS OF PRIOR EXPERIENCE WITH SIMILAR MASONRY INSTALLATION. THE SHOP DRAWINGS DETAILING THE ANCHOR SYSTEM SHALL BE APPROVED BY THE ENGINEER PRIOR TO PLACING ANY CONCRETE THAT WILL BE FACED.
9. ALL ANCHORS, CRAMPS, DOWELS, AND OTHER ANCHORING DEVICES SHALL BE AUSTENITIC STAINLESS STEEL (ALLOY TYPE 304) OR OTHER APPROVED NONFERROUS METAL OF THE TYPES AND SIZES SHOWN ON APPROVED SHOP DRAWINGS. RELYING ON ADHESIVES ALONE FOR ANCHORING WILL NOT BE ALLOWED.
10. DUPLICATE SAMPLES OF STONE SHALL BE SUBMITTED TO THE RESIDENT ENGINEER THROUGH THE GENERAL CONTRACTOR TO SHOW TEXTURE, FINISH, AND ANTICIPATED RANGE OF COLOR TO BE SUPPLIED. ONE SET OF APPROVED SAMPLES SHALL BE RETAINED BY THE RESIDENT ENGINEER, THE OTHER BEING RETURNED TO THE STONE SUPPLIER FOR GUIDANCE.
11. ANY PIECE OF STONE SHOWING FLAWS, IMPERFECTIONS, OR UNUSUAL COLOR UPON RECEIPT ON THE PROJECT SHALL BE REFERRED TO THE ENGINEER FOR A DECISION AS TO WHETHER IT SHALL BE REJECTED, PATCHED, OR REDRESSED FOR USE. ANY STONE REJECTED BY THE ENGINEER SHALL BE REMOVED FROM THE PROJECT IMMEDIATELY OR MARKED WITH PAINT. THE RESIDENT WILL MAKE THE FINAL DETERMINATION ABOUT WHETHER A PARTICULAR STONE SHALL BE USED.
12. WHERE THICKNESS PERMITS, ALL PIECES WEIGHING OVER 45kg MAY HAVE LEWIS HOLES FOR LIFTING IF DESIRED. LEWIS HOLES MAY EXTEND NO CLOSER THAN 50mm FROM THE FINISHED FACE, AND WILL NOT BE PERMITTED ON EXPOSED SURFACES.
13. STONE SHALL BE CAREFULLY SET WITHOUT JARRING STONE ALREADY LAID AND SHALL BE HANDLED WITH A LEWIS OR OTHER SUITABLE DEVICE WHICH WILL NOT MAR THE STONE. ROLLING OR TURNING OF STONE ON MASONRY ALREADY IN PLACE WILL NOT BE PERMITTED.
14. STONE TO BE LAID IN CEMENT MORTAR SHALL BE THOROUGHLY CLEANED BEFORE BEING SET, AND THE BED TO RECEIVE IT SHALL BE WELL CLEANED. THE THICKNESS OF ALL JOINTS AND BEDS SHALL BE UNIFORM THROUGHOUT. SPALLS SHALL NOT BE USED AS PINNERS IN MORTAR BEDS OR JOINTS. WHEN ANY STONE IS DISTURBED OR MORTAR JOINT BROKEN, THE STONE SHALL BE TAKEN UP, AND AFTER ALL MORTAR HAS BEEN CLEANED FROM THE STONE, BED, AND JOINTS, IT SHALL BE RESET IN FRESH MORTAR.
15. ALL STONES SHALL BE WELL BEDDED WITH THE FACE JOINTS PROPERLY POINTED BEFORE THE MORTAR HAS SET, UNLESS OTHERWISE PERMITTED. WHEN PERMITTED, JOINTS TO BE POINTED AFTER MORTAR HAS SET, SHALL BE RAKED OUT TO A DEPTH OF 80mm. JOINTS SHALL BE MOISTENED AND FILLED WITH MORTAR WELL DRIVEN IN. ALL POINTING SHALL BE FINISHED WITH AN APPROVED POINTING TOOL TO FORM THE TYPE OF JOINT INDICATED ON THE PLANS OR ORDERED.
16. THE MASONRY SHALL BE KEPT WET DURING POINTING, AND IN HOT OR DRY WEATHER SHALL BE PROTECTED FROM THE SUN AND KEPT WET FOR A PERIOD OF 3 DAYS AFTER COMPLETION UNLESS OTHERWISE PERMITTED OR ORDERED. THE EXPOSED SURFACES OF THE STONES SHALL NOT BE SMEARED WITH MORTAR. THE JOINTS SHALL BE WIPED FREE OF LOOSE MORTAR. STONE SHALL NOT BE SET WHEN CONTAINING FROST OR DURING FREEZING WEATHER.
17. STONE SHALL BE SHOP CLEANED AT THE TIME OF FINAL FABRICATION. AFTER INSTALLATION AND POINTING IS COMPLETED, THE CONTRACTOR SHALL CAREFULLY CLEAN THE STONE, REMOVING ALL DIRT, EXCESS MORTAR WELD SPLATTER, STAINS, AND/OR OTHER SITE INCIDENT DEFACEMENTS.
18. THE CONTRACTOR SHALL CONSTRUCT ONE 1.2 METER BY 1.2 METER FACADE MOCK-UP CONSISTING OF STONES TO BE USED AS THE WALL FACADE. THE MOCK-UP MUST BE APPROVED BY THE ENGINEER BEFORE FACADE PLACEMENT MAY BEGIN.



TYPICAL STONE MASONRY FACING DETAIL
SCALE 1:20

DATUM	
VERTICAL	NGVD 1929
HORIZONTAL	NAD 1927



THE LOUIS BERGER GROUP, INC.

Town Of GRAFTON - ROCKINGHAM	Bridge No.
Highway No. ROUTE 121	Log Sta.
	Surv. Sta.
ROUTE 121	
STONE FACING DETAIL AND NOTES	
Designed By JPB	Drawn By JBB
Checked By JPC	Date 12/03
	Bridge Design Supervisor
	Date
PROJECT GRAFTON - ROCKINGHAM	PROJECT NO. STP 0126(4)-S
I.G.C. Info.	V:\1261\Cadd\STRUCTURAL\PLANS\WallPlanC2.dwg
Wall Sheet No. 4	Sheet 115 of 116