

DOCUMENT MICROFILMING IDENTIFICATION

GEOCRES No. 31D-302

DIST. 6 REGION Central

W.P. No. 178-65-02

CONT. No. 70-23

W. O. No. 71-11054

STR. SITE No.

HWY. No. 11

LOCATION Hwy 11 and St. Andrew
College Entrance

OVERSIDE PLATINGS TO BE INCLUDED WITH THIS REPORT.

REMARKS: documents to be unfolded
before microfilmed

MEMORANDUM

71-11054

70-23

To: Mr. A. G. Stermac,
Principal Foundation Engineer,
Room 107,
Lab. Building.
ATTENTION: K. G. Selby

FROM: G. C. E. Burkhardt,
Bridge Planning Section,
Central Building.

DATE: May 31, 1971.

OUR FILE REF.

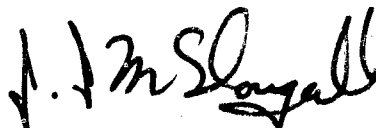
IN REPLY TO

SUBJECT: W.P. 178-65-02,
Relocation of Memorial Gateway
St. Andrews College Entrance,
Lot 84, Con. I, King Twp.,
Reconstruction of Hwy. 11 (Cont. 70-23)

As per our conversation this morning please find details of the above, attached. The Districts construction forces will place a stake at each of the new pillar locations (some 15 feet behind their existing location).

The above ^{re} location is to be done under a separate contract from that mentioned above. The road contractor is already working in this area and thus your recommendations for the footing design are urgently required. We would appreciate your recommendations by Wednesday of this week.

JIM:lc
Attach.


J. I. McDougall,
REG. BRIDGE LOCATION ENGINEER,
for:
G. C. E. Burkhardt,
REG. BRIDGE PLANNING ENGINEER.

c.c. L. R. Curry

DEPARTMENT OF HIGHWAYS- ONTARIO

MATERIALS & TESTING OFFICE

RECORD OF BOREHOLE No. 1

FOUNDATION SECTION

JOB 71-11054LOCATION As shownORIGINATED BY PPW.P. 178-65-02BORING DATE JUNE 3, 1971COMPILED BY PP

DATUM _____

BOREHOLE TYPE CONST. FLIGHT AUGER

CHECKED BY _____

SOIL PROFILE			SAMPLES			ELEV. SCALE	DYNAMIC PENETRATION RESISTANCE		LIQUID LIMIT — w_L			BULK DENSITY γ	REMARKS
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS / FOOT		BLOWS / FOOT	RESISTANCE	PLASTIC LIMIT — w_p	WATER CONTENT — w	WATER CONTENT %		
						SHEAR STRENGTH P.S.F.							
						<input type="radio"/> UNCONFINED + FIELD VANE <input type="radio"/> QUICK TRIAXIAL x LAB. VANE							
	GROUND LEVEL												
0.0	FILL		1	SS	5								
			2	SS	8								
			3	SS	6								
			4	SS	7								
			5	SS	9								
	SILTY CLAY - SOFT		6	SS	11								
8.2	SAND AND GRAVEL		7	SS	80								
10.5	SILT		8	SS	4								
			9	SS	11								
			10	SS	7								
15.0	END OF BOREHOLE												

DEPARTMENT OF HIGHWAYS- ONTARIO				RECORD OF BOREHOLE No. 3				FOUNDATION SECTION							
MATERIALS & TESTING OFFICE															
JOB <u>71-11054</u>		LOCATION <u>As Shown</u>		ORIGINATED BY <u>PP</u>											
W.P. <u>NIL</u>		BORING DATE <u>JUNE 3, 1971</u>		COMPILED BY <u>PP</u>											
DATUM _____		BOREHOLE TYPE <u>CONT. FLIGHT AUGER</u>		CHECKED BY _____											
SOIL PROFILE		SAMPLES			ELEV. SCALE	DYNAMIC PENETRATION RESISTANCE				LIQUID LIMIT — w_L				BULK DENSITY	REMARKS
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE		BLOWS / FOOT	BLOWS / FOOT				WATER CONTENT — w				
						SHEAR STRENGTH P.S.F.				PLASTIC LIMIT — w_p WATER CONTENT — w w_p — w — w_L					
						○ UNCONFINED + FIELD VANE ● QUICK TRIAXIAL x LAB. VANE				WATER CONTENT %				P.C.F.	GR. SA. SI. CL.
	GROUND LEVEL														
0.0			1	SS	2										
			2	SS	6										
			3	SS	6										
			4	SS	3										
			5	SS	7										
13.5	END OF BOREHOLE														

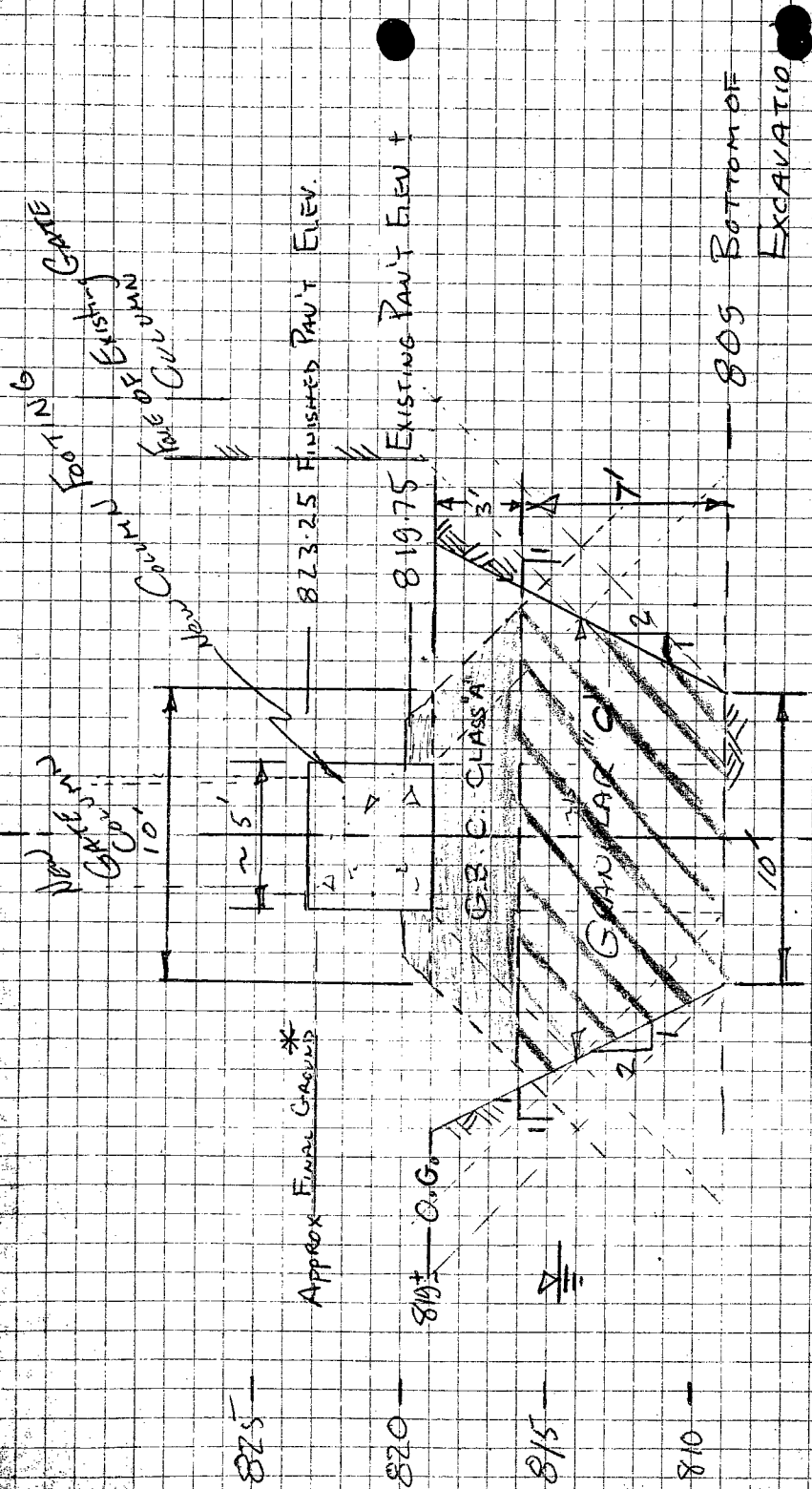
DEPARTMENT OF HIGHWAYS- ONTARIO
MATERIALS & TESTING OFFICE

RECORD OF BOREHOLE No. 4

FOUNDATION SECTION

JOB 71-11054 LOCATION As shown ORIGINATED BY PP
 W.P. N.L. BORING DATE JUNE 3, 1971 COMPILED BY PP
 DATUM _____ BOREHOLE TYPE CONT. FLIGHT AUGER CHECKED BY _____

SOIL PROFILE			SAMPLES			ELEV. SCALE	DYNAMIC PENETRATION RESISTANCE BLOWS / FOOT		LIQUID LIMIT — w_L PLASTIC LIMIT — w_p WATER CONTENT — w		BULK DENSITY γ P.C.F. GR. SA. SI. CL.	REMARKS
ELEV. DEPTH	DESCRIPTION	STRAT. PLOT	NUMBER	TYPE	BLOWS / FOOT		SHEAR STRENGTH P.S.F. 1000 2000	WATER CONTENT %				
0.0	GROUND LEVEL											
			1	SS	6							
			2	SS	6							
			3	SS	11							
			4	SS	6							
12.5	END OF BOREHOLE											



* NOTE: FILL TO FINAL

GROUND ELEVATION

THEN NEAR EXCAVATION ST. ANDREWS COLLEGE
AND FOUR FATHOMS MEMORIAL GATE

FIELD BORING LOG

DRILLING CO. LONGYEAR DATUM ELEV. _____ B.H. NO. 4
DRILLER LONGYEAR GROUND ELEV. _____ JOB NO. 71-11054
ENGINEER PP CASING SIZE 4UGER DATE JUNE 3, 1971
SITE LOCATION ST. ANDREW'S COLLEGE - ALBANY
HOLE LOCATION AS SHOWN ON PLAN
REMARKS _____

DEPTH FEET		DESCRIPTION	SAMPLE TYPE, NO. & RECOVERY	METHOD OR BLOWS & DISTANCE
FROM	TO			
0.0	2.0	AUGER HOLE NOTE: SOME TOPSOIL, with SAND WITH SOME CLAY		
2.0	3.5	SS - FILL	SS #1	1-3-3
3.5	5.0	1 VANE TEST: $20(44+16) \times 12" = 1840 \text{ PSF}$ $20(15+15) \times 12" = 600 \text{ PSF}$ $S=3.6$		
5.0	6.5	SS: BLACK - CL. SL. WITH SOME SAND AND ORGANICS - SOFT.	SS #2	1-3-3
6.5	8.0	VANE TEST $20(9+9) \times 12" = 360 \text{ PSF}$ $20(4+4) \times 6 = 40 \text{ PSF}$ $S=4.5$		
8.0	9.5	SS: 8.0' TO 8.5': BLACK, ORGANICS AND SL. CL. WITH SOME GRAVEL; 8.5' TO 9.0': SAND; 9.0' TO 9.5': GRAY - SOFT.	SS #3	3-4-3
11.0	12.5	SS: GRAY - CL. SL. TO SILT - LOOSE END OF LOG	SS #4	2-3-3

FIELD BORING LOG

DRILLING CO. LOUISIANA DATUM ELEV. _____ B.H. NO. 3
 DRILLER _____ GROUND ELEV. _____ JOB NO. 21-11057
 ENGINEER _____ CASING SIZE _____ DATE JUNE 3, 1971
 SITE LOCATION _____
 HOLE LOCATION _____
 REMARKS _____

DEPTH FEET		DESCRIPTION	SAMPLE TYPE, NO. & RECOVERY	METHOD OR BLOWS & DISTANCE
FROM	TO			
0.0	1.5	SS. - SOME TOPSOIL AND SAND WITH TRACES OF CLAY AND ORGANICS V. LOOSE	SS #1	1-1-1
3.0	4.5	SS: MIXTURE OF SAND, GRAVEL, SOME CLAY AND ORGANICS - LOOSE	SS #2	1-2-4
6.0	7.5	SS: 6.0' - TO 6.8': GRAY - DL. CL. WITH SOME SAND-FILL - 6.8' TO 7.5': BLACK; DL. CL. WITH SOME ORGANICS FIRM	SS #3	1-2-4
9.0	10.5	SS - GRAY - DL. CL. WITH SOME SAND AND ORGANICS; SAND AND GRAVEL AT TIP.	SS #4	1/2-1/2-3
12.0	13.5	SS - DL. CL. TO SILT - FIRM END OF LOG	SS #5	1-4-3

FIELD BORING LOG

DRILLING CO. Longview DATUM ELEV. _____ B.H. NO. 2
 DRILLER _____ GROUND ELEV. _____ JOB NO. 71-11054
 ENGINEER _____ CASING SIZE _____ DATE JUNE 3, 1971
 SITE LOCATION _____
 HOLE LOCATION _____
 REMARKS _____

DEPTH FEET		DESCRIPTION	SAMPLE TYPE, NO. & RECOVERY	METHOD OR BLOWS & DISTANCE
FROM	TO			
0.0	1.5	SS.: Sand TOPSOIL, SAND WITH ORGANICS - LOOSE	SS. #1	6-2-2
1.5	3.0	VANE TEST: NO TURN AT 50 LBS.		
3.0	4.5	SS: CL. SL. WITH SOME SAND FILL	SS. #2	3-3-3
4.5	6.0	VANE TEST: NO TURN AT 50 LBS.		
6.0	7.5	SS: MIXTURE OF; SAND, SILT, CLAY, WITH SOME ORGANICS - FILL - SOFT.	SS. #3	1-1-3
8.0	9.5	SS.: SILTY SAND WITH TRACES OF CLAY AND ORGANICS - LOOSE	SS. #4	1-2-2
12.0	13.5	SS: GRAY - SILT WITH TRACE OF CLAY; COMPACT	SS. #5	2-7-5
		END OF BOREHOLE		

FIELD BORING LOG

DRILLING CO. <u>LONGYEAR</u>	DATUM ELEV. _____	B.H. NO. <u>1</u>
DRILLER _____	GROUND ELEV. _____	JOB NO. <u>71-11054</u>
ENGINEER _____	CASING SIZE <u>—</u>	DATE <u>June 23, 1971</u>
SITE LOCATION _____		
HOLE LOCATION _____		
REMARKS _____		

DEPTH FEET		DESCRIPTION	SAMPLE TYPE, NO. & RECOVERY	METHOD OR BLOWS & DISTANCE
FROM	TO			
0.0	1.5	SPLIT SPOON; Brown - Sand, silt with some clay - fill max. L. loose	SS. #1	1-3-2
1.5	3.0	SS. : 1.5' TO 1.7' : Black, sand & organics; 1.7' TO 3.0' : clayey silt to silt; firm.	SS. #2	4-4-4
3.0	4.5	SS. : cl. sl. and some sand - soft; fill.	SS. #3	2-2-4
4.5	6.0	SS. : cl. sl. with some sand and occ. gravel - fill - firm	SS. #4	5-4-3
6.0	7.5	SS. : MIXTURE OF SANDY SILT & clay - fill - soft	SS. #5	2-2-3
7.5	9.0	SS. : 7.5' TO 8.2' : cl. sl. (v. soft); 8.2' TO 9.0' : GRAY - sand with some gravel - compact	SS. #6	2-3-8
9.0	10.5	SS. : 2' DEC ONLY - GRAY - sand and gravel - (SATURATED)	SS. #7	2-3-5
10.5	12.0	SS. : GRAY - silt - loose	SS. #8	3-5-4
12.0	13.5	SS. : GRAY - silt with TRACES of clay - loose	SS. #9	0-6-5
13.5	15.0	SS. : SAME AS ABOVE END OF BOREHOLE	SS. #10	1-3-4

Right-of-Way Office
Central Region
Downsview, Ontario
Telephone 248-3081
March 16, 1971

Mr. J. R. Coulter,
Headmaster,
St. Andrews College,
Aurora, Ontario.

Dear Sir:

T12457

RE: Relocation of Memorial Gateway
St. Andrews College Entrance
Lot 84, Con. 1, King Twp.
Reconstruction of Hwy. #11 Project.

This is to confirm the points discussed at the meeting held at the College at 2:00 p.m., Monday March 15th, 1971 and to place on record the mutually acceptable procedures to be followed, in carrying out the work involved, so as to minimise inconveniences to the College and to Department's contractors.

Present were Mr. Coulter and Mr. Dennet (the Bursar) for St. Andrews, and A. Sulavella (Road Design Engineer), K. Saunders (Construction Project Supervisor), H. Bonner (Negotiation Property Agent) and L.R. Curry (Property Management Supervisor) for the Department.

It was agreed that certain dates, May 7th, June 4th, June 9th, June 11th (evening) and the period from June 26th to July 12th inclusive are those on which special events occur at the College involving extensive incoming and outgoing traffic. The Department agreed to make a particular effort to keep the entrance fully open on these dates compatible with the needs of highway reconstruction work.

It was further agreed, after discussion, that the Gateway should be relocated to a position approximately 12' westerly from the present position. Objectively this will provide better exit-vision of traffic, provide a more aesthetic appearance at the entrance from the highway and may well provide for any future turning facility southbound.

During subsequent discussion, on the site, among D.H.O. staff some consideration was given to the advisability of setting back the Gateway to 15', depending upon condition of the soil to support the structure. This can be determined only after tests and further study.

The existing agreement with the College provides, under Clause 4, for Department contractors to enter on the College grounds to carry out the reconstruction. It was mutually agreed that this shall be construed so as to include entrance onto the lands to the further extent essential to carry out the works at the revised location, to the west, without further documentation or written permission beyond this letter and its acknowledgment.

The most critical item found mutually acceptable was that the Department's contractor is to first construct a new set of entrance pillars and walls, at the revised elevation and location, with existing entrance pillars left intact, and then reposition the gates, ornamental-iron fence, pillar decorations, memorial plaque and light standards as the last operation.

The regrading and asphaltting of the entrance roadway will be phased in to the work as required, determined by Department's project supervisor to complement the dates mentioned earlier, this to include essential drainage relocation.

The final item concerned the landscaping surrounding the Gateway. It was considered advisable to leave this work until highway reconstruction is completed and then it shall be carried out by the College grounds-staff, or its contractor, possibly some time in 1972.

The College will temporarily relocate the existing shrubbery, this spring, to protect them and some further agreement shall be made between the Department and the College to cover re-landscaping by the College at Department's cost. This was found to be acceptable to the College and to Department as the most practical solution.

It is suggested that the College contact the Department, at the appropriate time, to discuss this supplementary agreement as to costs involved.

We are requesting, at this time, your due consideration of the foregoing points and trust that they are a satisfactory outline of the mutually agreeable elements. If this is so then we would appreciate receiving your letter of confirmation and Department will then proceed on the basis outlined herein.

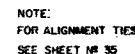
Yours truly,

L. R. Curry
Supervisor Sales & Management

for: M. W. Robinson
Regional Services Manager

LRC/1k

838 - 895-3810

 PAVEMENT
REMOVAL

ST. ANDREW'S COLLEGE
LOT 84
CON. I

NEW CONSTRUCTION	
SURFACE COURSE	H.L.1-1 1/4"
UPPER BINDER COURSE	H.L.4-1 1/2"
LOWER BINDER COURSE	H.L.4-2"
H.M.S.A.	- 3 1/4"

