

Traffic Engineering Checklist

1. Location: LOUGHEED HIGHWAY (HWY 7) AT HAIG STREET, MISSION
(route, cross street and city)

Project Number: _____ MoT Intersection Site Code: _____

Instructions:

- This checklist must be completed for all new or modifications to existing traffic signals.
- Attach supplementary pages if the space provided is not adequate.
- Page 3 must be signed by a MoT Traffic Engineer for completion.

2. Scope (Briefly describe the scope of work)

- INSTALL NEW TRAFFIC SIGNALS
- PROVIDE EMERGENCY PRE-EMPTION FOR THE EB AND WB APPROACHES OF HWY 7
- EXTEND SOUTH LEG OF HAIG STREET
- INSTALL PROTECTED-PERMISSIVE LEFT TURNS FOR BOTH HWY 7 EB & WB
- IMPLEMENT COORDINATION WITH HWY 7 @ CEDAR VALLEY CONNECTOR AND HWY 7 @ PARK STREET

3. Civil Design Scope

Comments based on: ☒ civil design drawings # 2111-02330-401B (Mar 22, 06)
and/or: ☐ existing electrical drawings TE # _____

Crosswalk revisions required?

No ☒ yes ☐ _____
(description or attach drawing)

Stop lines revisions required?

No ☒ yes ☐ _____
(description or attach drawing)

Lane marking revisions required?

No ☒ yes ☐ _____
(description or attach drawing)

Turning path revisions required?

No ☒ yes ☐ design vehicle to be WB-20, except B-Train for the EBLT and MSU for the WBRT
(description or attach drawing)

Civil Designer's Signature:
(Engineer's Signature)

José S. Pinto 13 April '06
(print name) (date)

4. Traffic Design Scope

Road classification: URBAN ARTERIAL
(rural arterial, urban arterial, etc.)

Signing modifications required? (if yes describe in detail or attach drawing)

Guide Sign modifications required?

No ☒ yes ☐ _____
(size & location - str.#)

Lane Use sign modifications required?

No ☒ yes ☐ _____
(location(s) - str.#)

Turn restrictions sign modifications required?

No ☒ yes ☐ _____
(type & location - str.#)

Other sign modifications required?

No ☒ yes ☐ _____
(description & location - str.#)

Traffic Engineering Checklist

Location: LOUGHEED HIGHWAY (HWY 7) AT HAIG STREET, MISSION
(route and cross street)

4. Traffic Design Scope (continued)

Special features revisions required? (describe in detail if yes)

Advance warning signs (complete table below)?

No ☒ yes ☐

(Which approaches?)

Approach	Speed km/h	Grade %	Approach	Speed km/h	Grade %
North	50	+1.78%	East	50	+0.19%
South	50	+1.41%	West	50	-0.78%
Road name: HAIG STREET			Road name: LOUGHEED HIGHWAY		

Island flashers:

No ☒ yes ☐

(Note those which exceed standards.)

Emergency preemption:

No ☐ yes ☒ Siren-actuated emergency pre-emption on Hwy 7 EB & WB (re City's request)

(Type - hardwire, audible, radio, strobe)

Indication lights: no ☐ yes ☒ Blue/White

(Type and location)

Rail preemption: (which approaches?)

No ☒ yes ☐

Blank-out display: no ☐ yes ☐

(Type and approach)

Pedestrian Accommodation:

No ☐ yes ☒ pedestrian push-buttons for all 4 crosswalks

(Describe Location - Audibles, special pushbuttons, etc)

Cyclist Accommodation:

No ☒ yes ☐ See attached correspondence from District of Mission (Mar 06, 06)

(Describe Location - loops, stencils, pushbuttons):

Transit/HOV Requirements:

No ☒ yes ☐

(Describe - HOV laning, additional phasing):

Special detector requirements:

No ☒ yes ☐

(Advance loops, queue loops, etc.)

Future requirements (within 5 years):

No ☒ yes ☐

(e.g. advance arrows, different phasing, etc.)

Controller requirements:

New ☒ or Use existing ☐ M cabinet ☐ or S cabinet ☒

Other items or comments: (Attach supplementary pages if the space provided is not adequate.)

- COORDINATE SIGNALS WITH HWY 7 @ CEDAR VALLEY CONNECTOR AND HWY 7 @ PARK STREET

- INSTALL UNINTERRUPTED POWER SUPPLY (UPS)

- VIDEO DETECTION TO BE USED ON THE SOUTH LEG ONLY, BUT DETECTOR LOOPS TO BE USED ON THE OTHER THREE LEGS

5. Signal Phasing - ATTACH a preliminary timing sheet showing the following:

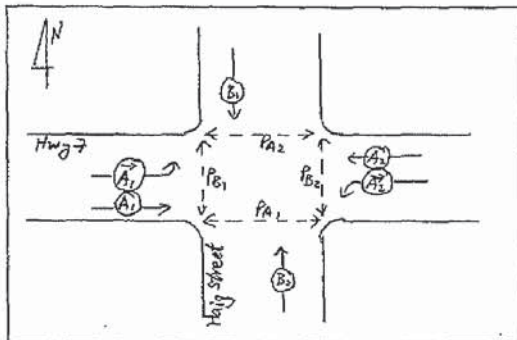
- phase assignments • advance warning times • resting/recall phases
- Synchro Analysis reports

Traffic Engineering Checklist

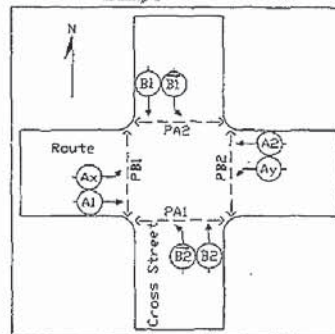
Location: LOUGHEED HIGHWAY (HWY 7) AT HAIG STREET, MISSION
(route and cross street)

5. Signal Phasing (continued)

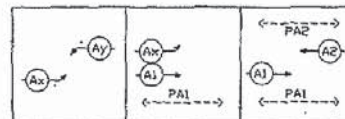
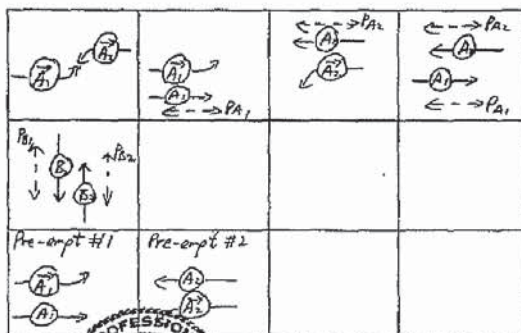
Signal Phasing Layout (show all movements and north arrow).



Example



Signal Phasing Sequencing (relative to Signal Phasing Layout above).



Show all combinations of vehicle and pedestrian movements in sequence.

Show emergency, railway, bus and other preemption sequences.

Identify clearance and preemption phases.

Traffic engineering prepared by:

C. Duncan Lo
(Engineer's Signature)

Duncan Lo
(print name)

June 1, 2006
(date)

6. MOT Traffic Engineering Approval (Must be completed for a checklist prepared by a consultant)

☒ Recommend to proceed.

☐ Changes required (consultant must resubmit):

Amey Choh
(MOT Traffic Engineer signature)

Amey Choh, P.Eng
(print name)

June 2, 2006
(date)

SIGNAL TIMING SHEET

DATE ISSUED	PRELIMINARY	INTERSECTION	LOUGHEED HIGHWAY AT HAIG STREET
CONTROLLER TYPE	LMD 8000	LOCATION	MISSION
CABINET TYPE	"S" RACK	SHEET NUMBER & REVISION	
SEQUENCE	NEMA DUAL RING	SITE CODE	

PHASE NUMBER	1	2	3	4	5	6	7	8
PHASE SETTING	ON	ON	OFF	ON	ON	ON	OFF	ON
DESCRIPTION	LOUGHEED HWY WB/LT EMERG. PREEMP #2	LOUGHEED HWY E/B EMERG. PREEMP #1		HAIG STREET S/B	LOUGHEED HWY EBLT EMERG. PREEMP #1	LOUGHEED HWY W/B EMERG. PREEMP #2		HAIG STREET N/B
FUNCTION	A2->	A1		B1	A1->	A2		B2
OVERLAP								
MINIMUM GREEN	6	10	0	7	6	10	0	7
PASSAGE	3.0	3.0	0.0	3.0	3.0	3.0	0.0	3.0
YELLOW	4.4	4.5	0.0	4.5	3.6	4.5	0.0	4.5
RED	1.0	1.1	0.0	1.4	1.0	1.1	0.0	1.4
MAX (MAX II)								
MAXPLAN (1,2,3,4)	0 0 0 0 0 0 0 0			0 0 0 0 0 0 0 0	0 0 0 0 0 0 0 0			0 0 0 0
MAXPLAN (5,6,7,8)	0 0	0 0		0 0	0 0	0 0		0 0
WALK		7	0	7		7	0	7
PEDESTRIAN CLEAR		13	0	21		11	0	13
WALK	STEADY	STEADY		STEADY	STEADY	STEADY		STEADY
RECALL	OFF	EXT		OFF	OFF	EXT		OFF
MEMORY	OFF	OFF		OFF	OFF	OFF		OFF
COORDINATION DN PHASE		XXXX				XXXX		
FIRST GREEN DISPLAY		XXXX				XXXX		
INTERSECTION FLASH		RED		RED		RED		RED
AWP TIME (s)		0.0		0.0		0.0		0.0
AWP TIME (s) [CH1/CH2]		0.0 0.0		0.0 0.0		0.0 0.0		0.0 0.0
DELAY DETECTION TIMING	TO BE DETERMINED		PROGRAMMING COMMENTS					
			1. FIRST STEP OF EMERGENCY PRE-EMPTION IS ALL RED = 2.0 SECONDS					
			2.					
			3.					
			4.					
PRE-EMPTION TYPE	EMERGENCY (SIREN ACTUATED)		OPERATIONAL COMMENTS					
DELAY TIME	0 SECONDS		1. POSTED SPEED (HWY 7) = 50 KM/H					
PRE-EMPTION TIME	SENSOR ACTUATED		2. CO-ORDINATION WITH CEDAR VALLEY COLLECTOR AND PARK STREET					
VOLUME LOGGING & MOES	ON - 15 MIN		3. INSTALL UNINTERRUPTED POWER SUPPLY (UPS)					
SCM	ON		4.					

PED PERMISSIVE	AUTO	CYCLE (1 TO 8)							
		1	2	3	4	5	6	7	8
		0	0	0	0	0	0		
OFFSET (1 TO 4)		0 0	0	0	0	0	0		

TIME CLOCK SETTINGS						ADDITIONAL TIME CLOCK INFORMATION
TIME OF DAY	DAY OF WEEK	MAXPLAN (1 TO 8)	CYCLE (1 TO 8)	OFFSET (1 TO 4)	SERVICEPLAN (1 TO 8)	
0	0	0	0			
0	0	0	0			
0	0	0	0			
0	0	0	0			
0	0	0	0			
0	0	0	0			

ENGINEER OF RECORD

DATE

RECEIVED & DISTRIBUTED BY MOT

DATE

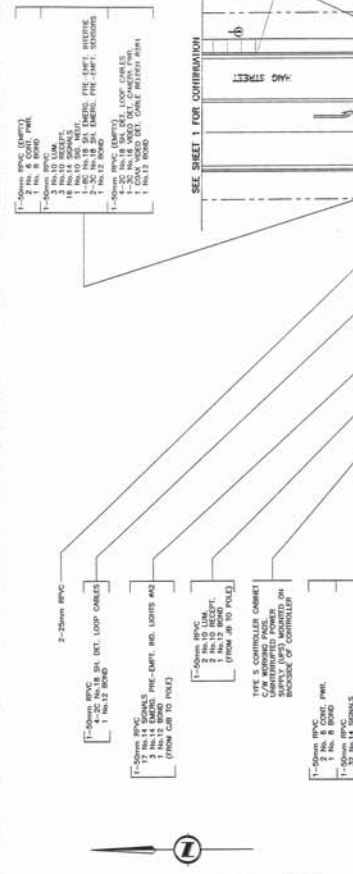
CALCULATION SHEET

DATE ISSUED	PRELIMINARY			INTERSECTION	LOUGHEED HIGHWAY AT HAIG STREET		
CONTROLLER TYPE	LMD 8000			LOCATION	MISSION		
CABINET TYPE	"S" RACK			SHEET NUMBER & REVISION			
SEQUENCE	NEMA DUAL RING			SITE CODE			

PHASE NUMBER	1	2	3	4	5	6	7	8
PHASE SETTING	ON	ON	OFF	ON	ON	ON	OFF	ON
DESCRIPTION	LOUGHEED HWY WBL	LOUGHEED HWY E/B		HAIG STREET S/B	LOUGHEED HWY EBL	LOUGHEED HWY W/B		HAIG STREET N/B
	EMERG. PREEMP #2	EMERG. PREEMP #1			EMERG. PREEMP #1	EMERG. PREEMP #2		
FUNCTION	A2→	A1		B1	A1→	A2		B2
OVERLAP								
POSTED SPEED [km/h]	50	50		50	50	50		50
APPROACH GRADE [%]	-0.8	0.2		1.4	0.2	-0.8		1.8
CLEARANCE DISTANCE [m]	34.5	31.5		37.5	30.0	31.5		37.5
CONFLICT DISTANCE [m]	6.5				10.5			
WALKING SPEED [m/s]		1.2		1.2		1.2		1.2
WALKING DISTANCE [m]		21.5		31.5		19.0		22.0

APPROACH SPEED [km/h]	40	50		50	40	50		50
CLEARANCE SPEED [km/h]	40	50		50	40	50		50
CONFLICT SPEED [km/h]	40				40			

CLEARANCE INTERVAL [s]	5.4	5.5		5.9	4.6	5.6		5.9
YELLOW [s]	4.4	4.5		4.5	3.6	4.5		4.5
RED [s]	1.0	1.0		1.4	1.0	1.1		1.4
PED WALK [s]		7		7		7		7
PED CLEAR [s]		13		21		11		13
AWF DISTANCE [m]								
AWF TIME [s]								
AWF TIME [s] [CHYCH2]								



VIDEO DETECTOR ZONE DETAILS		
CAMERA No.	ZONE No.	PHASE
VC1	29-210	B2

REFER TO SHEET 1 FOR NOTES

DO NOT USE THIS DRAWING FOR
PAVEMENT MARKINGS

POSTED SPEED LIMIT 50 km/h ON HAIG STREET

 **BRITISH COLUMBIA**
Electrical Engineering
University of Toronto

SITE PLAN
1:250

1-50mm SPVC
2 No.10 CLIM.
16 No.14 SIGNALS
1 No.10 SIG. NE
3 No.14 EMERG.
1 No.12 BOND

SIGNAL AND LIGHTING INSTALLATION
ROUTE 7 (LOUGHDEE HWY) AT HWG STREET
MISSION

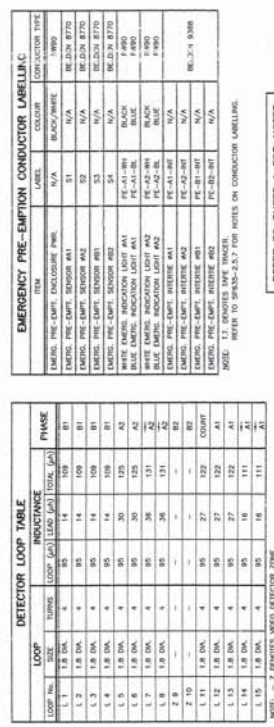
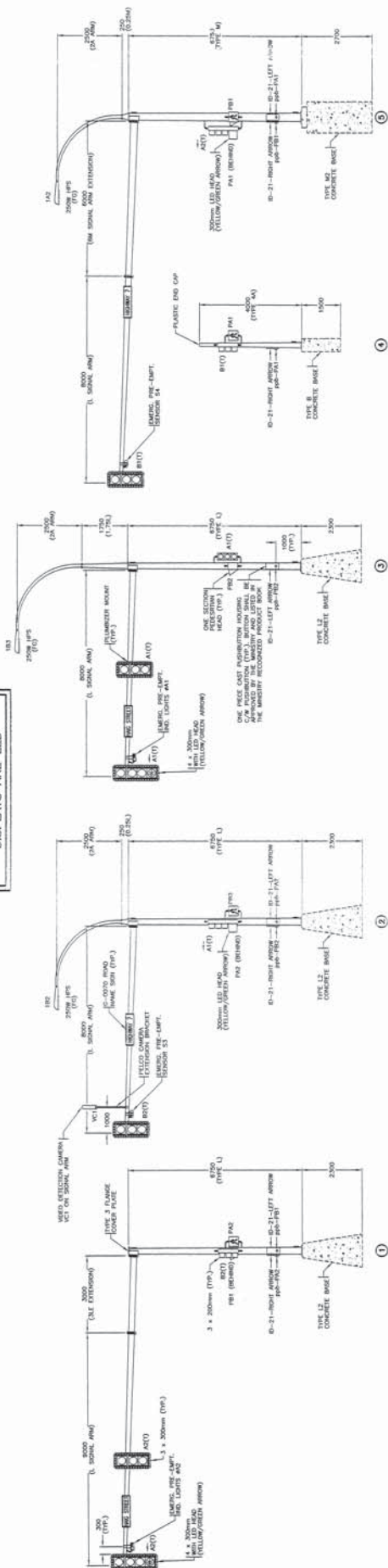
SITE PLAN ENLARGEMENT — SIGNAL DISPLAY — COLOUR CODE
ELECTRICAL DRAWING OF RECORD (FOR CURRENT RECORD)

John J. Lee

DATE: _____

SHEET NUMBER	SITE CODE	HWY	SECTION	DRAWING NUMBER
3		1	1	TE-06006-2

SHEET 3 OF 3



Electrical Engineering
Ministry of Transport

**SIGNAL AND LIGHTING INSTALLATION
ROUTE 7 (LOUGHEED HWY) AT HAIG STREET
MISSION**

WIRING DIAGRAM -- ELEVATIONS -- DETAILS

NUMBER OF RECORD FOR CURRENT RELEASE

DATE _____

NUMBER	SITE CODE	FLY DIST	REGION	CRAWLING NUMBER
1 OF 3		1	1	TF-06000

[illegible]



Mission Hills Access/Safeway

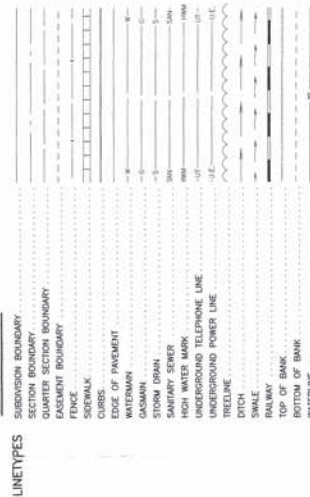
FEBRUARY 2006

PROPOSED



DETAIL SYMBOLS

EXISTING

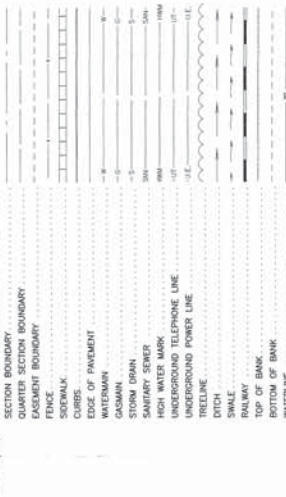


DRAWING INDEX

- 2111-02330-001 - RETAIL LOCATION PLAN, DRAWING INDEX AND LEGEND
- 2111-02330-101 - PLAN
- 2111-02330-201 - PROFILES & SPOT ELEVATIONS
- 2111-02330-301 - TYPICAL SECTIONS & MISCELLANEOUS DETAILS
- 2111-02330-401 - GEOMETRICS & LAYOUT, SIGNING & PAVEMENT MARKINGS

LEGEND

LINE TYPES



SURVEY SYMBOLS



UTILITY SYMBOLS



ELECTRICAL SYMBOLS



DETAIL SYMBOLS



DRAINAGE SYMBOLS



METER & VALVE SYMBOLS

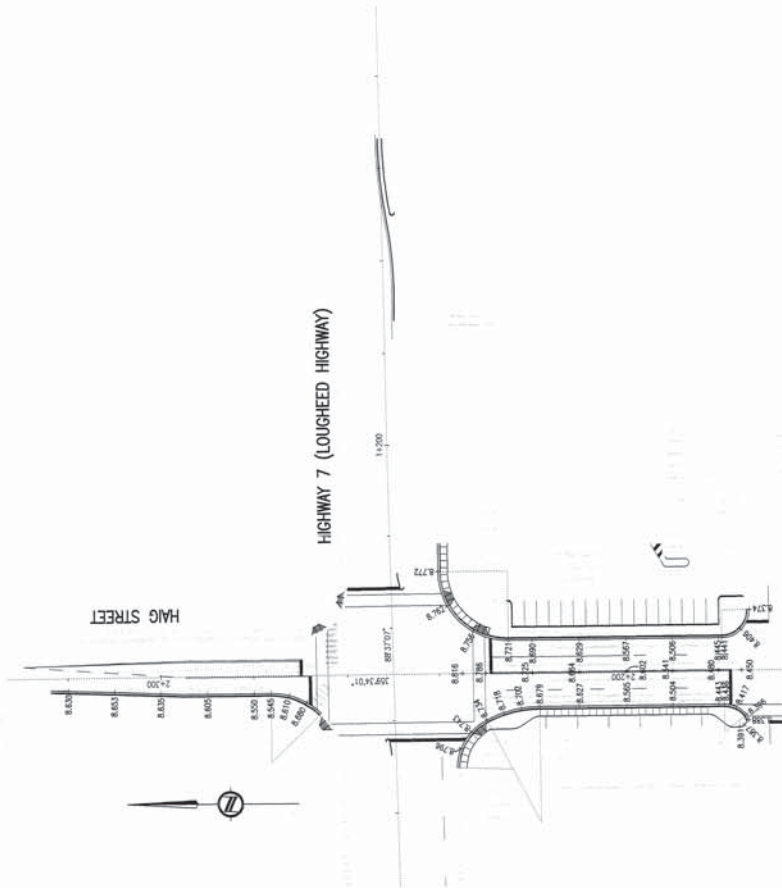
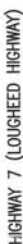


CONTROL/SURVEY POINTS			
CONTROL PT.	DESCRIPTION	NORTHING	EASTING
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555	FIP	4997.462	3154.555
556	FIP	5033.918	3140.792
557	FIP	4997.462	3154.555
558	FIP	5033.918	3140.792
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INFORMATION SHOWN ON THESE DRAWINGS REGARDING EXISTING UTILITIES IS COMPILED FROM SOME RECORD DRAWINGS AND SOME SURVEYS, AND MAY NOT BE COMPLETELY CORRECT. EXPOSURE AND CONSTRUCTION OF UTILITIES SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL VERIFY THE LOCATION, DEPTHS AND ELEVATIONS OF ALL EXISTING UTILITIES AND ADVISE THE ARCHITECT IMMEDIATELY OF ANY POTENTIAL CONFLICTS.

THIS DRAWING AND DESIGN SHALL NOT BE USED, REPRODUCED OR REPRODUCED WITHOUT THE CONSENT OF MUELLHANN CONSULTING SERVICES LTD. MUELLHANN CONSULTING SERVICES LTD. WILL NOT BE HELD RESPONSIBLE FOR THE IMPROPER OR UNAUTHORIZED USE OF THIS DRAWING AND DESIGN.



PLAN	2111-02350-101
REFERENCE DRAWING	



PROFILE AND SPOT ELEVATIONS
MISSION HILLS ACCESS/SAFEBAY
L-100 AND L-200

 McElhenny	Design Consultant PROJECT NO. 2111-02330-0	PROJECT NO. 2111-02330-0	DRAWING NO. 2111-02330-201	APPROVED FOR THE DISTRICT OF 	DATE
				DESIGN REVIEW COMPLETE	DATE

