

ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - DESIGN/CONSTRUCTION



PROJECT: _____

PROJECT NUMBER: _____ DATE: _____

NAME OF CAD FILE: _____

RELATED FOLDER: _____

DOCUMENTS PREPARED BY: _____

DOCUMENTS CHECKED BY: _____

ACCEPTABLE - YES X - NO N/A - NOT APPLICABLE

	ACCEPTABLE	COMMENTS	REF.
1. GENERAL			
North Arrow			
Legend			
Title Block Street Name and location of intersection			
Intersection identification			
Design Start Date:			
Enter Scale: (1:100/1:200/1:500) 1: _____			
Drawing number and Municipal Reference Number			
Revision number, description, and date			
Municipality Logo			
Plot Stamp			
2. Baseplan			
Existing edge of pavement/curb/existing pavement marking			
Street Names			
islands, medians			
Sidewalks and curb cuts			
Ditches/culverts			
Driveways and curb cuts			
Catch Basin and manholes			
Significant Vegetation			
Fences			
Existing/ proposed utilities			
Hydro - underground and aerial/ Alumination			
Gas			
Bell			
Sewer and water main			
Other -			
Property lines and monuments shown			
Existing signal system			
OTHER Detail 1)			
2)			
3. Proposed			
Roadway geometrics lane realignment (match road project)			
Curb and curb cuts (match road project)			
Sidewalk ramps and plates shown on drawing (match road project)			
Turning movements checked - Design Vehicle (_____)			
Signal site distance checked			17
OTHER Detail 1)			
2)			
3)			
4. Pavement Markings			
Lanes shown - all proper pavement markings			
Turning markings symbols shown on all approaches			
Stop bar and crosswalk marking shown on all approaches			
Bike lane and bike symbols in standard location			

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ACCEPTABLE ✓ - YES X - NO N/A - NOT APPLICABLE

	ACCEPTABLE	COMMENTS	REF.
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5. Regulatory and Warning Signage

Regulatory signage location symbols shown			OTM-5
Sign identifier label shown (i.e. Rb-25)			OTM-5
Warning signage location symbols shown			

6. Power Supply and Controller Location

Power supply point identified, O/H ungn			
Disconnect and PS cabinet shown			35
Controller cabinet location shown			35
Minimum set back from edge of pavement maintained			25
Disconnect and Controller included in Data Table			25

7. Pole Locations

Pole locations shown and labelled clockwise from TC			22-24
Minimum set back from edge of pavement maintained			22-25
Utility clearance maintained			22-24
Pole -quadrant, No., height and base type in data table			

8. Signal Head Locations

Signal head locations shown on all approaches (Prim,sec.aux)			
Signal head locations shown in standard locations			19/20
Signal head location, No., type & Mount Ht. in data table			

9. Ducts and Junction Boxes

Junction box location shown and labelled clockwise from TC			28/29/37
Minimum set back from edge of pavement maintained			29
Junction box quadrant, No., size, type in data table			
Traffic duct locations shown and labled-50mm and 100mm			

10. Detection Locations

Vehicle detection locations shown on appropriate approaches			
Detection locations shown in mandatory or standard locations			27/28
Detection - location, No.& type in data table			

11. Pedestrian Provision

Ped head and Button locations shown on all approaches			
Ped Head locations within 1.5m of crosswalk			21/25
Push Button locations within 1.5m to C/L of crosswalk			21/25
PH & PB listed on poles in data table			

12. Roadway Lighting Provision

Roadway lighting locations shown on all approaches			
Luminaire location noted on pole number in data table			

13. DRAFTING STANDARDS

Description	Layer	Color	
buildings	LU_E_BS_BLD_BUILDING	220	
curb cuts	IN_E_RS_RDY_CURBDROP	184	
curbs	IN_E_RS_RDY_CURB	180	
ditches	IN_E_DS_DDS_DITCH	134	
driveways	IN_E_RS_DWY_DRIVWAY	192	
hydro aerial wire	UT_E_HY_AER_WIRE	34	
hydro underground cable	UT_E_HY_UND_CABLE	24	
solid pavement markings - proposed	IN_P_TS_PMK_LINE100	30	
dashed pavement markings - proposed	IN_P_TS_PMK_LINE3_3	30	
solid pavement markings - existing	IN_E_TS_PMK_LINE100	206	
dashed pavement markings - existing	IN_E_TS_PMK_LINE3_3	206	
property lines	LB_E_SV_BN	120	
road edge of pavement	IN_E_RS_RDY_EDGEROAD	180	
sidewalk	IN_E_RS_SWK_SIDEWALK	202	
signal plant - existing	IN_E_TS	142	

signal plant aerial - proposed	IN_P_TS_AER	90		
signal plant ground level - proposed	IN_P_TS_GND	90		
signal plant underground - proposed	IN_P_TS_UND	90		
signs	IN_E_TS_SGN_INFORMATION	112		

ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - DESIGN/CONSTRUCTION



ACCEPTABLE √ - YES X - NO N/A - NOT APPLICABLE

Description	Layer	Color		
street names (text height 1.2)	IN_E_RS_REF_STREETNAME	20		
pavement marking symbols	IN_E_TS_PMK_SYMBOLS	202		
traffic loops	D_LOOPS	142		
traffic signal ducts (50 & 100)	D_CONDUIT-	142		
traffic signal ducts (50)	D_CONDUIT5	90		

14. BLOCKS/SYMBOLS

Description	Proposed		
signal head #	TS_SIGNAL_HEAD#_PROP.dwg		
pedestrian signal head	TS_PH_PROP.dwg		
countdown pedestrian signal head	TS_PH_COUNTDOWN_PROP.dwg		
pedestrian push button	TS_PB_PROP.dwg		
audible pedestrian push button	TS_PB_AUDIBLE_PROP.dwg		
junction box	TS_JB_PROP.dwg		
vehicle loop/video detection area	TS_LOOP_SIMPLE_PROP.dwg		
duplex loop detector	TS_LOOP_DUPLEX_PROP.dwg		
diamond loop detector	TS_LOOP_SIMPLE_DIAMOND_PROP.dwg		
vehicle pre-emption antenna	TS_PREMP_EMERG.dwg		
micro-wave detector	TS_MW_PROP.dwg		
traffic controller	TS_(AER/GND)_CONTROLLER_PROP.dwg		
traffic sign	TS_SIGN_PROP.dwg		
traffic sign w/ flashing beacon	TS_ITS_PROP.dwg		
video detection camera	TS_DC_PROP.dwg		
tilt/pan/zoom video camera	TS_VC_PROP.dwg		
multi-leg video detection camera	TS_MDC_PROP.dwg		
power distribution cabinet	TS_PS_CABINET_PROP.dwg		
serial radio communication antenna	TS_RAD_INTER.dwg		
hydro meter	TS_METER_PROP.dwg		
signal related luminaire	TS_LUMINAIRE_PROP.dwg		
existing luminaire	TS_LUMINAIRE_PROP.dwg		
straight/right arrow	TS_PMK_RT_ST_PROP.dwg		
right arrow	TS_PMK_RIGHT_PROP.dwg		
no turn arrow	TS_PMK_NOTURN_PROP.dwg		
straight/left arrow	TS_LT_ST_PROP.dwg		
left arrow	TS_PMK_LEFT_PROP.dwg		
left/right arrow	TS_PMK_LT_RT_PROP.dwg		
left/right/straight arrow	TS_PMK_3DIR_PROP.dwg		

- for proposed detail layer prefix is Pr_
- for descriptions not listed see CAD Standards Manual
LTSCALE = 1.0 & PSLTSCALE = 0

ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - RECORD

PROJECT: _____

PROJECT NUMBER: _____ DATE: _____

NAME OF Record CAD FILE: _____

RELATED FOLDER: _____

DOCUMENTS PREPARED BY: _____

DOCUMENTS CHECKED BY: _____

ACCEPTABLE - YES X - NO N/A - NOT APPLICABLE

	ACCEPTABLE	COMMENTS	REF.
1. GENERAL			
North Arrow			
Legend			
Title Block Street Name and location of intersection			
Intersection identification			
Design Start Date:			
Enter Scale: (1:100/1:200/1:500) 1: _____			
Drawing number and Municipal Reference Number			
Description, date, and revision number for record drawing			
Municipality Logo			
Plot Stamp			
2. Record Baseplan			
Roadway geometrics lane alignment			
Curb and curb cuts			
Sidewalk ramps and plates shown on drawing			
Street Names			
Islands, medians			
Ditches/culverts			
Driveways and curb cuts			
Catch Basin and manholes			
Significant Vegetation			
Fences			
Utilities			
Hydro - underground and aerial/ Alumination			
Gas			
Bell			
Sewer and water main			
Other -			
Property lines and monuments shown			
OTHER Detail 1)			
2)			
4. Pavement Markings			
Lanes shown - all proper pavement markings			
Turning markings symbols shown on all approaches			
Stop bar and crosswalk marking shown on all approaches			
Bike lane and bike symbols in standard location			
5. Regulatory and Warning Signage			
Regulatory signage location symbols shown			OTM-5
Sign identifier label shown (i.e. Rb-25)			OTM-5
Warning signage location symbols shown			
6. Power Supply and Controller Location			
Power supply point identified, O/H ungrnd			
Disconnect and PS cabinet shown			35
Controller cabinet location shown			35

Minimum set back from edge of pavement maintained			25
Disconnect and Controller included in Data Table			25

ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - RECORD



ACCEPTABLE √ - YES X - NO N/A - NOT APPLICABLE

			REF.
	ACCEPTABLE	COMMENTS	

7. Pole Locations

Pole locations shown and labelled clockwise from TC			22-24
Minimum set back from edge of pavement maintained			22-25
Utility clearance maintained			22-24
Pole -quadrant, No., height and base type in data table			

8. Signal Head Locations

Signal head locations shown on all approaches (Prim,sec.aux)			
Signal head locations shown in standard locations			19/20
Signal head location, No., type & Mount Ht. in data table			

9. Ducts and Junction Boxes

Junction box location shown and labelled clockwise from TC			28/29/37
Minimum set back from edge of pavement maintained			29
Junction box quadrant, No., size, type in data table			
Traffic duct locations shown and labled-50mm and 100mm			

10. Detection Locations

Vehicle detection locations shown on appropriate approaches			
Detection locations shown in mandatory or standard locations			27/28
Detection - location, No.& type in data table			

11. Pedestrian Provision

Ped head and Button locations shown on all approaches			
Ped Head locations within 1.5m of crosswalk			21/25
Push Button locations within 1.5m to C/L of crosswalk			21/25
PH & PB listed on poles in data table			

12. Roadway Lighting Provision

Roadway lighting locations shown on all approaches			
Luminaire location noted on pole number in data table			

13. DRAFTING STANDARDS

Description	Layer	Color		
buildings	LU_E_BS_BLD_BUILDING	220		
curb cuts	IN_E_RS_RDY_CURBDROP	184		
curbs	IN_E_RS_RDY_CURB	180		
ditches	IN_E_DS_DDS_DITCH	134		
driveways	IN_E_RS_DWY_DRIVEWAY	192		
hydro aerial wire	UT_E_HY_AER_WIRE	34		
hydro underground cable	UT_E_HY_UND_CABLE	24		
solid pavement markings - proposed	IN_P_TS_PMK_LINE100	30		
dashed pavement markings - proposed	IN_P_TS_PMK_LINE3_3	30		
solid pavement markings - existing	IN_E_TS_PMK_LINE100	206		
dashed pavement markings - existing	IN_E_TS_PMK_LINE3_3	206		
property lines	D_PROPERT	120		
road edge of pavement	IN_E_RS_RDY_EDGEROAD	180		
sidewalk	IN_E_RS_SWK_SIDEWALK	202		
signal plant - existing	IN_E_TS	142		
signal plant aerial - proposed	IN_P_TS_AER	90		
signal plant ground level - proposed	IN_P_TS_GND	90		
signal plant underground - proposed	IN_P_TS_UND	90		
signs	IN_E_TS_SGN_INFORMATION	112		
street names (text height 1.2)	IN_E_RS_REF_STREETNAME	20		
pavement marking symbols	IN_E_TS_PMK_SYMBOLS	202		
traffic loops	D_LOOPS	142		
traffic signal ducts (50 & 100)	D_CONDUIT-	142		
traffic signal ducts (50)	D_CONDUIT5	90		

**ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - RECORD**



ACCEPTABLE √ - YES X - NO N/A - NOT APPLICABLE

14. BLOCKS/SYMBOLS

Description	Proposed		
signal head #	TS_SIGNAL_HEAD#_PROP.dwg		
pedestrian signal head	TS_PH_PROP.dwg		
countdown pedestrian signal head	TS_PH_COUNTDOWN_PROP.dwg		
pedestrian push button	TS_PB_PROP.dwg		
audible pedestrian push button	TS_PB_AUDIBLE_PROP.dwg		
junction box	TS_JB_PROP.dwg		
vehicle loop/video detection area	TS_LOOP_SIMPLE_PROP.dwg		
duplex loop detector	TS_LOOP_DUPLEX_PROP.dwg		
diamond loop detector	TS_LOOP_SIMPLE_DIAMOND_PROP.dwg		
vehicle pre-emption antenna	TS_PREMP_EMERG.dwg		
micro-wave detector	TS_MW_PROP.dwg		
traffic controller	TS_(AER/GND)_CONTROLLER_PROP.dwg		
traffic sign	TS_SIGN_PROP.dwg		
traffic sign w/ flashing beacon	TS_ITS_PROP.dwg		
video detection camera	TS_DC_PROP.dwg		
tilt/pan/zoom video camera	TS_VC_PROP.dwg		
multi-leg video detection camera	TS_MDC_PROP.dwg		
power distribution cabinet	TS_PS_CABINET_PROP.dwg		
serial radio communication antenna	TS_RAD_INTER.dwg		
hydro meter	TS_METER_PROP.dwg		
signal related luminaire	TS_LUMINAIRE_PROP.dwg		
existing luminaire	TS_LUMINAIRE_PROP.dwg		
straight/right arrow	TS_PMK_RT_ST_PROP.dwg		
right arrow	TS_PMK_RIGHT_PROP.dwg		
no turn arrow	TS_PMK_NOTURN_PROP.dwg		
straight/left arrow	TS_LT_ST_PROP.dwg		
left arrow	TS_PMK_LEFT_PROP.dwg		
left/right arrow	TS_PMK_LT_RT_PROP.dwg		
left/right/straight arrow	TS_PMK_3DIR_PROP.dwg		
- for proposed detail layer prefix is Pr_			
- for descriptions not listed see CAD Standards Manual			
LTSCALE = 1.0 & PSLTSCALE = 0			

ENGINEERING DEPARTMENT
CHECK LIST - TRAFFIC SIGNAL DRAWINGS - LEGAL APPROVAL (PHM-125)



PROJECT: _____

PROJECT NUMBER: _____ DATE: _____

NAME OF Record CAD FILE: _____

RELATED FOLDER: _____

DOCUMENTS PREPARED BY: _____

DOCUMENTS CHECKED BY: _____

ACCEPTABLE ✓ - YES X - NO N/A - NOT APPLICABLE

	ACCEPTABLE	COMMENTS	PAGE
1. GENERAL			
Standard Border			
intersection Identifier			
Municipality			
Intersection Street Names (check spelling)			
Date:			
Scale:	1:		
Recommended block signed			
Revision Block - number, description, and date			
Legends - Symbols and Signal Heads			
North Arrow			
Proper Linetype Scale			
2. Baseplan			
Existing edge of pavement/curb			
Street Names (same as title block)			
Sidewalks and curb cuts			
Driveways and curb cuts			
3. Cross walk and Sidewalk			
Cross walk locations-type-single/rural marking			
Drop-curb locations			
4. Pole Locations			
Pole locations shown			
Minimum set back from edge of pavement maintained			22-25
5. Signal Head Locations			
Signal head locations shown on all approaches (Prim,sec.aux)			
Signal head locations shown in mandatory or standard locations			19-21
Signal mast arm, standard length shown in data table			
Signal head location, size, type shown in data table			
6. Detection Locations			
Vehicle detection locations shown on appropriate approaches			27/28
7. Pedestrian Provision			
Ped head and Button locations shown on all approaches			
Ped head and Button locations in mandatory/standard locations			22, 25
8. Street Lighting Provision			
Street lighting locations shown on all approaches (far right)			
9. Line Marking and Regulatory Signage			
Centre lane and turning markings shown on all approaches			
Stop bar and crosswalk marking shown on all approaches			

Turning lane markings shown on approaches			
Regulatory signage location and type shown and labelled			

ACCEPTABLE √ - YES X - NO N/A - NOT APPLICABLE

	ACCEPTABLE	COMMENTS	PAGE
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10. DRAFTING STANDARDS

PEN TABLE INPCS_MONO_V3.0.ctb

Description	Layer	Color			
curb cuts	IN_E_RS_RDY_CURBDROP	184			
curbs	IN_E_RS_RDY_CURB	180			
driveways- intersecting	IN_E_RS_DWY_DRIVEWAY	192			
solid pavement markings	IN_E_TS_PMK_LINE100	206			
dashed pavement markings	IN_E_TS_PMK_LINE3_3	206			
road edge of pavement	IN_E_RS_RDY_EDGEROAD	180			
sidewalk	IN_E_RS_SWK_SIDEWALK	202			
signal plant - existing	IN_E_TS	142			
signal plant aerial - proposed	IN_P_TS_AER	90			
signal plant ground level - proposed	IN_P_TS_GND	90			
signal plant underground - proposed	IN_P_TS_UND	90			
signs (reg/warning)	IN_E_TS_SGN_INFORMATION	112			
street names (text height 1.2)	IN_E_RS_REF_STREETNAME	20			
pavement marking symbols	IN_E_TS_PMK_SYMBOLS	202			
traffic loops	IN_E_TS_GN	142			

11. BLOCKS/SYMBOLS

Description	Block/Symbol				
signal head #	TS_SIGNAL_HEAD#_PROP.dwg				
pedestrian signal head	TS_PH_PROP.dwg				
countdown pedestrian signal head	TS_PH_COUNTDOWN_PROP.dwg				
pedestrian push button	TS_PB_PROP.dwg				
audible pedestrian push button	TS_PB_AUDIBLE_PROP.dwg				
vehicle loop/video detection area	TS_LOOP_SIMPLE.dwg				
duplex loop detector	TS_LOOP_DUPLEX.dwg				
diamond loop detector	TS_LOOP_SIMPLE_DIAMOND.dwg				
vehicle pre-emption antenna	TS_PREMP_EMERG.dwg				
micro-wave detector	TS_MW.dwg				
traffic controller	TS_(AER/GND)_CONTROLLER.dwg				
traffic sign	TS_SIGN.dwg				
traffic sign w/ flashing beacon	TS_ITS_PROP.dwg				
video detection camera	TS_DC_PROP.dwg				
tilt/pan/zoom video camera	TS_VC_PROP.dwg				
multi-leg video detection camera	TS_MDC_PROP.dwg				
power distribution cabinet	TS_PS_CABINET.dwg				
serial radio communication antenna	TS_RAD_INTER.dwg				
hydro meter	TS_METER_PROP.dwg				
signal related luminaire	TS_LUMINAIRE_PROP.dwg				
existing luminaire	TS_LUMINAIRE.dwg				
straight/right arrow	TS_PMK_RT_ST.dwg				
right arrow	TS_PMK_RIGHT.dwg				
no turn arrow	TS_PMK_NOTURN.dwg				
straight/left arrow	TS_LT_ST.dwg				
left arrow	TS_PMK_LEFT.dwg				
left/right arrow	TS_PMK_LT_RT.dwg				
left/right/straight arrow	TS_PMK_3DIR.dwg				