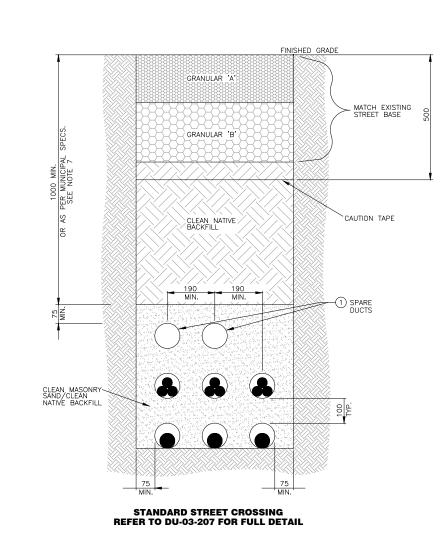
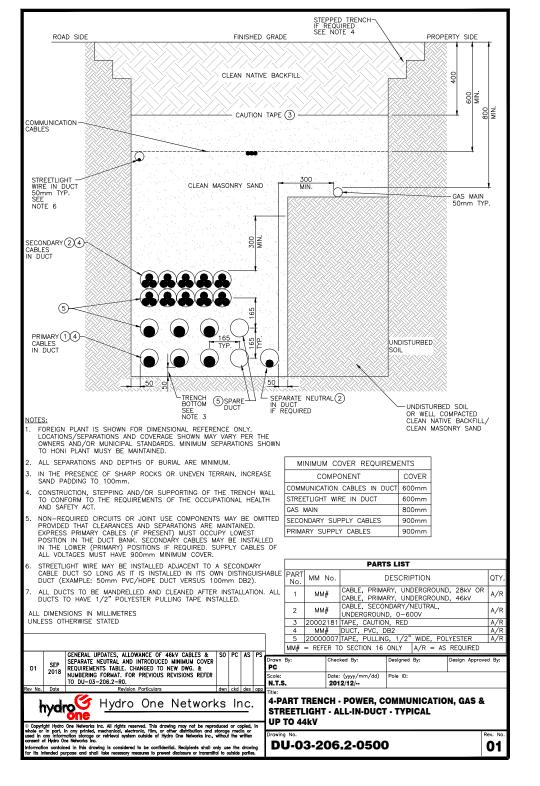


STREETL	IGHT P	EDESTAL CHART
STREETLIGHT PEDESTAL #	CIRCUIT#	STREETLIGHT POLE #'S / WATTAGES
P1	А	A1(35), A2(35), A3(35), A4(35)
PI	В	B1(35)







SAFETY CONSIDERATIONS

- ELECTRICAL CONTRACTOR SHALL PERFORM ALL WORKS IN ACCORDANCE WITH APPLICABLE HEALTH & SAFETY LEGISLATION, REGULATIONS AND BY-LAWS, INCLUDING BUT NOT LIMITED TO REQUIREMENTS OF
- THE TSSA, ESA, LOCAL DISTRIBUTION COMPANY, MUNICIPALITY & MINISTRY OF LABOUR.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN SAFE WORKING CLEARANCES FROM OVERHEAD HYDRO LINES ELECTRICAL CONTRACTOR SHALL OBTAIN UTILITY LOCATES FOR ALL UNDERGROUND WORKS, AND LOCATE
- AND PROTECT ALL EXISTING UTILITIES BEFORE AND DURING CONSTRUCTION. VACUUM EXCAVATE OR HAND DIG AS REQUIRED PER UTILITIES' STAKE OUT REPORTS. THE ACCURACY OF LOCATES AND POSITION OF UTILITIES / STRUCTURES IS NOT GUARANTEED. PRIOR TO STARTING WORK, THE CONTRACTOR SHALL CONFIRM THE LOCATION OF ALL UTILITIES / STRUCTURES IMPACTING THE WORK, AND SHALL ASSUME ALL LIABILITY FOR DAMAGES TO THEM RESULTING FROM THE

LAYOUT AND FACILITIES LOCATIONS

CONTRACTOR'S WORKS.

- ELECTRICAL CONTRACTOR IS RESPONSIBLE TO ENSURE THE LAYOUT AND LOCATION OF INSTALLED FACILITIES IS IN CONFORMANCE WITH THE DRAWINGS ISSUED FOR CONSTRUCTION, AND WITH RELEVANT
- STANDARD DRAWINGS OF THE LOCAL DISTRIBUTION COMPANY AND MUNICIPALITY. ELECTRICAL CONTRACTOR SHALL STAKE OUT THE TRENCH LINE, LIGHT POLE AND SERVICE PEDESTAL LOCATIONS PRIOR TO STARTING EXCAVATION, AND SHALL NOTIFY THE DESIGNER OF ANY CONFLICTS WITH EXISTING OR PROPOSED FACILITIES PRIOR TO INSTALLATION. SEE DIMENSIONS ON DRAWING FOR OFFSET
- PROPOSED REVISIONS TO ANY ASPECT OF THE DESIGN DRAWINGS INCLUDING CONFLICT RESOLUTION DURING THE COURSE OF THE WORK SHALL BE IDENTIFIED TO AND APPROVED BY THE DESIGNER PRIOR TO IMPLEMENTATION OR INSTALLATION.
- ELECTRICAL CONTRACTOR SHALL MAINTAIN MIN 3.0m SEPARATION BETWEEN LIGHTS/PEDESTALS AND FIRE HYDRANTS (EXCEPT WHERE SPECIFICALLY AUTHORIZED).
- SEE DRAWING DIMENSIONS FOR LOCATION OF FACILITIES WITHIN BOULEVARDS REFERENCED TO CURB LINE, EDGE OF PAVEMENT, ETC. LIGHT POLES TO BE INSTALLED WITH MINIMUM 1.2m SEPARATION FROM
- TRAVELLED PORTION OF ROADS, DRIVEWAYS, ENTRANCES, ETC., EXCEPT WHERE NOTED. 10) ELECTRICAL CONTRACTOR SHALL EXTEND ANY SUPPLY SERVICE CABLES OR CONDUITS LEFT STUBBED AT THE SITE LIMITS FOR THEIR USE, AND SHALL COORDINATE THESE EXTENSIONS WITH THE LOCAL DISTRIBUTION COMPANY OR MUNICIPALITY AS REQUIRED. ANY COSTS RESULTING FROM FAILURE TO
- COORDINATE WILL BE BORNE BY THE CONTRACTOR. 11) ALL WORK TO BE COORDINATED WITH LOCAL DISTRIBUTION COMPANY AND MUNICIPAL REPRESENTATIVES
- ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF METER BASE, "HOUSE SERVICE" PANEL
- OR PEDESTAL, & 40 AMP BREAKERS FOR SUPPLY OF LIGHTING CIRCUITS, UNLESS OTHERWISE NOTED. REFER TO LOCAL DISTRIBUTION COMPANY DRAWINGS FOR PROPOSED ELECTRICAL FACILITIES LOCATIONS,
- TO COORDINATE WITH PRIVATE LIGHTING INSTALLATIONS. 14) PRIVATE LIGHTING CABLES TO BE INSTALLED IN JOINT USE TRENCH WITH TELECOM AND GAS UTILITIES IN
- LOCATIONS INDICATED, UNLESS OTHERWISE NOTED. 15) ORIENT LUMINAIRES AS INDICATED, AND NOT NECESSARILY PERPENDICULAR TO STREET.

MATERIALS AND CONSTRUCTION

- 16) ALL MATERIAL USED SHALL BE NEW, AND SHALL CONFORM TO THE LATEST APPLICABLE O.E.S.C., C.S.A. AND/OR ANSI SPECIFICATIONS AS REQUIRED.
- 17) ELECTRICAL CONTRACTOR SHALL REFER TO THE CONTRACT DOCUMENTS FOR DETAILS REGARDING THE MATERIALS AND CONSTRUCTION METHODS TO BE USED.
- 18) ALL STREETLIGHT CONDUIT TO BE 75mm RIGID PVC PER CSA C22.2-NO.211.2 (LATEST VERSION). 19) CONTRACTOR TO SUPPLY NOTED STREETLIGHT POLE WITH GROUND FAULT DUPLEX RECEPTACLE (GFI).

INSPECTIONS AND APPROVALS

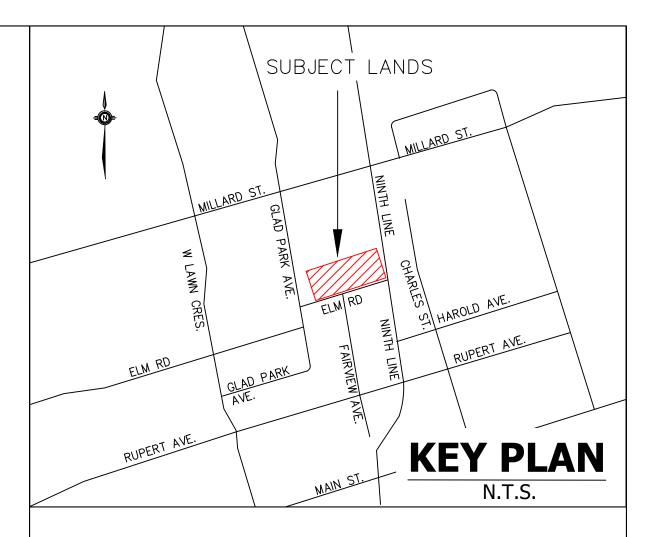
- 20) ELECTRICAL CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMIT APPLICATIONS AND
- APPROVALS FOR THE LIGHTING SYSTEM. ALL PRIVATELY OWNED WORKS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ONTARIO ELECTRICAL SAFETY CODE, LATEST EDITION, AND SUBJECT TO THE INSPECTION AND APPROVAL OF THE THE ELECTRICAL SAFETY AUTHORITY. A COPY OF THE E.S.A. CERTIFICATE OF INSPECTION MUST BE PROVIDED

TO THE DESIGNER ON COMPLETION OF THE PROJECT.

ELECTRICAL CONTRACTOR SHALL ACCURATELY MEASURE AND RECORD ANY REVISED FACILITIES LOCATIONS OR OTHER DEVIATIONS FROM THE DRAWINGS DURING THE COURSE OF THE PROJECT, AND SUBMIT AN "AS CONSTRUCTED" DRAWING TO THE CONSULTANT ON COMPLETION OF THE WORK.

STREETLIGHTING

- 23) CONTRACTOR TO INSTALL STREETLIGHT INFRASTRUCTURE FOR CONDO SITE USING PROPOSED
- TRANSFORMER, PEDESTAL AND TRENCH LOCATIONS. 24) ALL MEASUREMENTS ARE DIMENSIONED FROM FACE OF CURB AND LOT LINES, UNLESS NOTED OTHERWISE.



LEGEND

- MUNICIPAL COACH-STYLE STREETLIGHT LUMINAIRE AND 1.5m SCROLL MOUNTING ARM 35 WATT LED TYPE II UNLESS OTHERWISE NOTED (L40U-STM-35W32LED3K-G3-C-LE2.ies) MUNICIPAL COACH-STYLE STREETLIGHT LUMINAIRE AND 1.5m SCROLL MOUNTING ARM 35 WATT LED TYPE II WITH HOUSE SHIELD UNLESS OTHERWISE NOTED
- MUNICIPAL OCTAGONAL STREETLIGHT POLE (OR DECORATIVE POLE AS OTHERWISE NOTED)

(L40U-STM-35W32LED3K-G3-C-LE2-HS.ies)

- STREETLIGHT PANEL TO BE STAND-ALONE PEDESTAL (2-POLE 50A-240V MAIN C/W FOUR 1-POLE 40A-120V BREAKERS)
- GROUND PLATE
- 4 #2 CU. RWU90 PANEL SUPPLY CABLE, INSTALLED IN 75mm RIGID PVC TYPE II CONDUIT
- ---- 2-#6 CU. & 1-#6 CU. RWU90 STREETLIGHT CABLE, INSTALLED IN 75mm RIGID PVC CONDUIT
- 75mm RIGID PVC STREETLIGHT DIRECT BURIED ROAD CROSSING CONDUIT, QUANTITY AS INDICATED (ADDITIONAL TO DUCT QUANTITIES SHOWN ON ELECTRICAL DRAWING)

HYDRO TRANSFORMER - STREETLIGHT PEDESTAL SUPPLY POINT

BENCHMARK No. 00819768488

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE TOWN OF MARKHAM BENCHMARK No. 00819768488 HAVING AN ELEVATION OF 255.290 METRES ONE AND ONE HALF STOREY WHITE ALUMINUM SIDING HOUSE ON THE SOUTHEAST CORNER OF THE JCT OF HIGHWAYS 48 AND 47 AT RINGWOOD, 96.3 METRES EAST OF CENTERLINE OF HIGHWAY 48, AND 18.8 METRES SOUTH OF CENTERLINE OF HIGHWAY 47. TABLET IS SET HORIZONTALLY IN WEST FACE OF CONCRETE FOUNDATION, 3.5 METRES SOUTH OF NORTHWEST CORNER, 69 CM BELOW ALUMINUM SIDING AND 30 CM ABOVE GROUND LEVEL. ELEVATION = 255.290m

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2	S.S	25/06/30	2ND SUBMISSION	M.S
1	S.S	23/05/16	1st SUBMISSION	M.S
No.	BY	DATE	DESCRIPTION	APPROVED



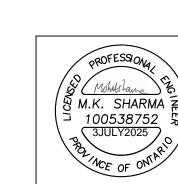
TOWN REVIEWED TOWN ENGINEER DATE: TOWN OF WHITCHURCH-STOUFFVILLE

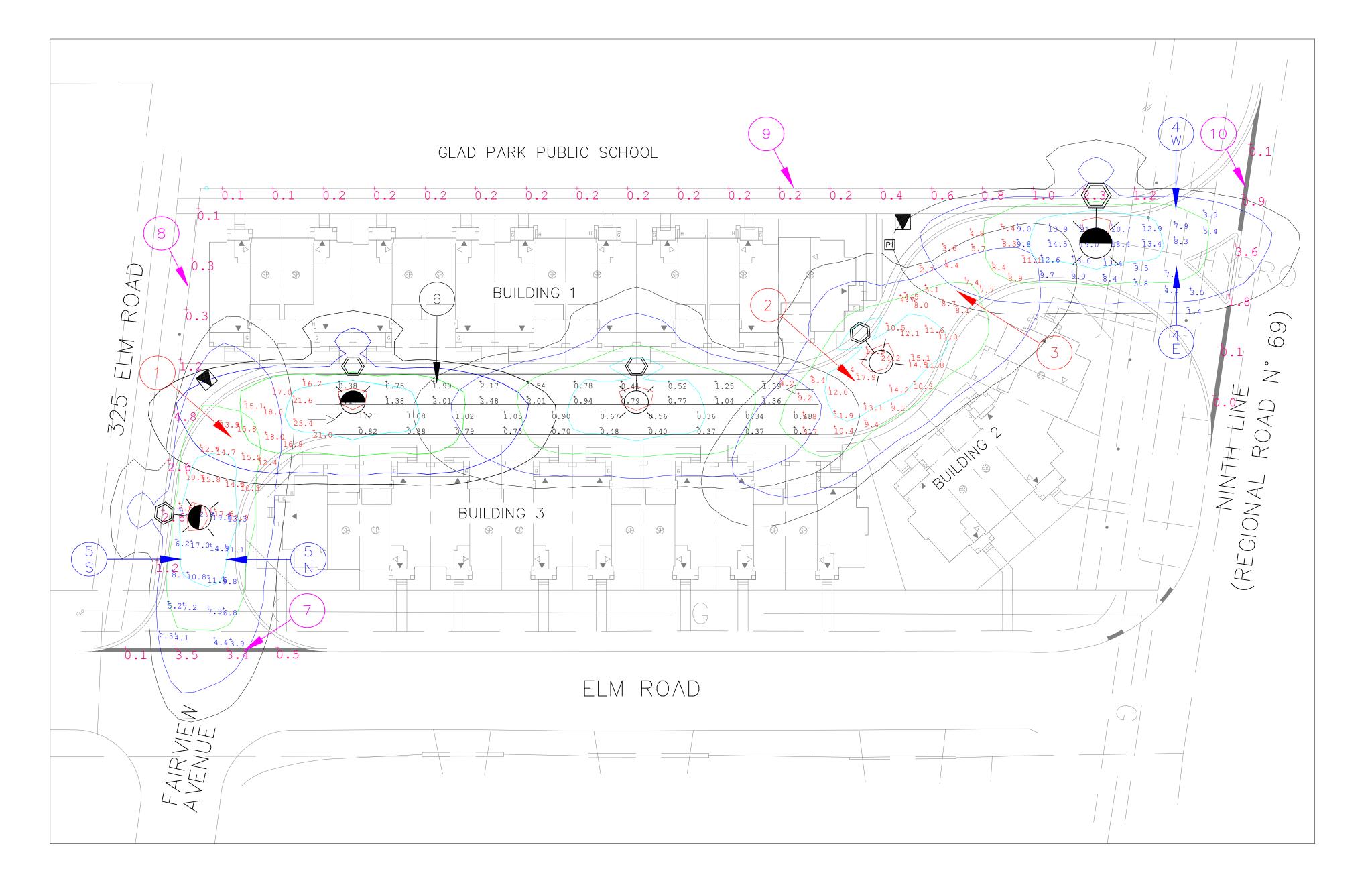


MADORI ELM ROAD XXX - XXX

STREETLIGHT LAYOUT DRAWING

/	DRAWN BY: S.S	CHECKED BY: M.S	TOWN ID:	DRAWING NO.
	DESIGNED BY: S.S	CHECKED BY: M.S	XXXX	CI _1
	SCALE: 1:250	DATE: 2023/03/29	^^^	SL-1





	_							
TYPE	QTY	LOCATION/ MOUNTING HEIGHT	DESCRIPTION	LUMINAIRE MANUFACTURER/CAT.#	LUMINAIRE DETAILS	.IES FILE NO.	POLE MANUFACTURER/CAT.NO.	ARM MANUFACTURER/CAT.NO
	2	POLE/ 6.2m MH	PROPOSED 35W +/- LED TYPE II SIDE-MOUNTED COACH STYLE LUMINAIRE, 120V SUPPLY C/W 10KA SURGE PROTECTOR, TOWN OF WHITCHURCH-STOUFFVILLE BRACKET AND LUMINAIRE DETAIL TYPE "B3" 1.5m SCROLL MOUNTING ARM, ON A 7.6m CLASS A SALUKI BRONZE OCTAGONAL POLE TYPE "P3"	PHILIPS LUMEC/ CAT.# L40-STM-35W32LED3K-G3-C-LE2	35W LED, 120V 4207 LUMENS 3000K TYPE II MEDIUM LLF = 0.81	L40U-STM-35W32LED3K-G3-C-LE2.ies	USI/ MA-250-A-2-SB-60-F	LUMEC/ CAT# S25AU5-1A-BKTX
	3	POLE/ 6.2m MH	SIDE-MOUNTED COACH STYLE LUMINAIRE , 120V SUPPLY	PHILIPS LUMEC/ CAT.# L40U-STM-35W32LED3K-G3-C-LE2-HS	35W LED, 120V 3336 LUMENS 3000K TYPE II MEDIUM LLF = 0.81	L40U-STM-35W32LED3K-G3-C-LE2-HS.ies	USI/ MA-250-A-2-SB-60-F	LUMEC/ CAT# S25AU5-1A-BKTX

STREET NAME	STREET A -	ELM ROAD EN	ITRANCE	
STREET CLASSIFICATION	LOCAL			
PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW			
AREA CLASSIFICATION	LZ-1			
	REQUIREMENT AS PER CITY/IES RP-8	DESIGN	FIELD (AT ACCEPTANCE)	MEETING CRITERIA (YES/NO)
AVE. MAINTAINED ILLUMINANCE (Lavg) (Lux)	4.5 (MIN	l) 16.23/15.38	N/A	YES
AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1 (MA	x) 1.58/2.33	N/A	YES

Curve	I			
STREET NAME	STREET A - BU	IILDING 2		
STREET CLASSIFICATION	LOCAL			
PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW			
AREA CLASSIFICATION	LZ-1			
	REQUIREMENTS	RES	ULTS	MEETING
	AS PER CITY/IES RP-8-21	DESIGN NB/SB*	FIELD (AT ACCEPTANCE)	CRITERIA (YES/NO)
AVE. MAINTAINED ILLUMINANCE (Lavg) (Lux)	4.5 (MIN)	11.14/11.04	N/A	YES
AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1 (MAX)	1.28/2.63	N/A	YES

	Curve					
3)	STREET NAME	STREET	A - BUI	LDING 2		
ر	STREET CLASSIFICATION	LOCAL				
	PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW				
	AREA CLASSIFICATION	LZ-1				
			EMENTS	RES	ULTS	MEETING
			PER RP-8-21	DESIGN EB/WB*	FIELD (AT ACCEPTANCE)	CRITERIA (YES/NO)
	AVE. MAINTAINED ILLUMINANCE (Lavg) (Lux)	4.5	(MIN)	9.98/5.17	N/A	YES
	AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1	(MAX)	1.35/1.91	N/A	YES

				B=FY21BC	OND / W	R=MF21B00ND
	Continuous Streets (Straight	. – U	sing l	llumina	nce Met	thod)**
4	STREET NAME	STREET	A - NIN	ITH LINE EN	TRANCE	
J	STREET CLASSIFICATION	LOCAL				
	PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW				
	AREA CLASSIFICATION	LZ-1				
			EMENTS	RES	ULTS	MEETING
		AS I	PER RP-8-21	DESIGN EB/WB*	FIELD (AT ACCEPTANCE)	CRITERIA (YES/NO)
	AVE. MAINTAINED ILLUMINANCE (Lavg) (Lux)	4.5	(MIN)	8.17/12.74	N/A	YES
	AVE. UNIFORMITY RATIO	6 0.1	(1447)	5.84/3.27	NI /A	VEC

* EB=EASTBOUND / WB=WESTBOUND

Continuous Streets (Straight	Using I	lluminar	nce Met	thod)**
STREET NAME	STREET A - ELM	ROAD ENT	TRANCE	
STREET CLASSIFICATION	LOCAL			
PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW			
AREA CLASSIFICATION	LZ-1			
	REQUIREMENTS AS PER CITY/IES RP-8-21	RESU DESIGN NB/SB*	JLTS FIELD (AT ACCEPTANCE)	MEETING CRITERIA (YES/NO)
AVE. MAINTAINED ILLUMINANCE (Lavg) (Lux)	4.5 (MIN)	10.21/9.10	N/A	YES
AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1 (MAX)	2.62/3.96	N/A	YES

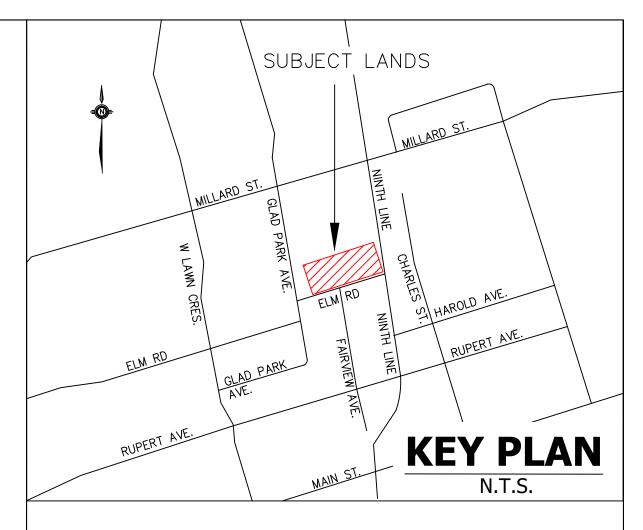
	AREA CLASSIFICATION	LZ-1			
	PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW			
\bigcirc	STREET CLASSIFICATION	LOCAL			
(6)	STREET NAME	STREET A - BU	JILDING 1 & BUILDING	3	
_	Continuous Streets (Straight/Cur	rve >600m-	Using Luminanc	e Method)	
	** NOTE INSUFFICIENT STRAIG	GHT SECTIO	NS TO USE LI	JMINANCE	METHO
			* NB=NORTHBOUN	AD \ SB=SC	JUTHBOOK

SIREEI NAME	SIRLEI A - D	ו שאועבווע	BUILDING	3
STREET CLASSIFICATION	LOCAL			
PEDESTRIAN CONFLICT (LOW/MED/HIGH)	LOW			
AREA CLASSIFICATION	LZ-1			
	REQUIREMENTS	RESU	LTS	MEETING
	AS PER CITY/IES RP-8-21	DESIGN EB/WB *	FIELD (AT ACCEPTANCE)	CRITERIA (YES/NO)
AVE. LUMINANCE (Lavg) (cd/m^2)	0.3 (MIN)	0.68 /1.26	N/A	YES
AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1 (MAX)	2.00 /3.32	N/A	YES
MAX. UNIFORMITY RATIO (Lmax/Lmin)	10.0:1 (MAX)	3.56 /6.53	N/A	YES
MAX. VEILING LUMINANCE (Lmax/Lavg)	0.4:1 (MAX)	0.04 /0.03	N/A	YES
Continuous Streets (Curve and	<600m-Usi	ng Illumir	ace Me	thod)
AVE. ILLUMINANCE (Lavg) (lux)	4.5 (MIN)	14.74/13.53	N/A	YES
AVE. UNIFORMITY RATIO (Lavg/Lmin)	6.0:1 (MAX)	2.14 /3.08	N/A	YES

ELM ROAD ENTRANCE 5 Lux MAX 3.5 Lux MAX

)	PERIMETER	CITY REQUIREMENT	CALCULATED ILLUMINANCE
	GLAD PARK PUBLIC SCHOOL	5 Lux MAX	2.3 Lux MAX

9	PERIMETER	CITY REQUIREMENT	CALCULATED ILLUMINANCE
_	NINTH LINE ENTRANCE	5 Lux MAX	3.6 Lux MAX



LEGEND

MUNICIPAL COACH-STYLE STREETLIGHT LUMINAIRE AND 1.5m SCROLL MOUNTING ARM 35 WATT LED TYPE II UNLESS OTHERWISE NOTED (L40U-STM-35W32LED3K-G3-C-LE2.ies) MUNICIPAL COACH-STYLE STREETLIGHT LUMINAIRE AND 1.5m SCROLL MOUNTING ARM 35 WATT LED TYPE II WITH HOUSE SHIELD UNLESS OTHERWISE NOTED (L40U-STM-35W32LED3K-G3-C-LE2-HS.ies)

MUNICIPAL OCTAGONAL STREETLIGHT POLE (OR DECORATIVE POLE AS OTHERWISE NOTED)

ISOLUX TEMPLATE LINES

CALCULATED POINT ILLUMINANCE VALUES (IN LUX - CURVES)

CALCULATED POINT ILLUMINANCE VALUES (IN LUX - LANEWAYS)

CALCULATED POINT LUMINANCE VALUES (IN CANDELAS / SQ. M. - ROADWAY)

HYDRO TRANSFORMER - STREETLIGHT PEDESTAL SUPPLY POINT

CALCULATED POINT ILLUMINANCE VALUES (IN LUX - ENTRANCES)

STREETLIGHT PANEL - TO BE STAND-ALONE PEDESTAL (2-POLE 50A-240V MAIN C/W FOUR 1-POLE 40A-120V BREAKERS)

1) ALL POINT ILLUMINANCE LEVELS ARE GIVEN IN LUX. 2) ALL POINT LUMINANCE LEVELS ARE GIVEN IN CANDELAS / SQ. M. 3) POINT ILLUMINANCE AND LUMINANCE VALUES FOR PROJECT AS INDICATED ON LEGEND. 4) ISOLUX TEMPLATES FOR INDIVIDUAL STREET LIGHTS REPRESENTING 1 LUX ARE INDICATED IN BLACK, 2 LUX IN BLUE, 5 LUX IN GREEN, 10 LUX IN CYAN AND 20 LUX IN RED AS LINES

APPROACH LIGHT POLE.

BENCHMARK No. 00819768488

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE TOWN OF MARKHAM BENCHMARK No. 00819768488 HAVING AN ELEVATION OF 255,290 METRES ONE AND ONE HALF STOREY WHITE ALUMINUM SIDING HOUSE ON THE SOUTHEAST CORNER OF THE JCT OF HIGHWAYS 48 AND 47 AT RINGWOOD, 96.3 METRES EAST OF CENTERLINE OF HIGHWAY 48, AND 18.8 METRES SOUTH OF CENTERLINE OF HIGHWAY 47. TABLET IS SET HORIZONTALLY IN WEST FACE OF CONCRETE FOUNDATION, 3.5 METRES SOUTH OF NORTHWEST CORNER, 69 CM BELOW ALUMINUM SIDING AND 30 CM ABOVE GROUND LEVEL. ELEVATION = 255.290m

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2	S.S	25/06/30	2ND SUBMISSION	M.S
1	S.S	23/05/16	1st SUBMISSION	M.S
No.	BY	DATE	DESCRIPTION	APPROVED



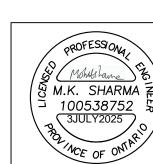
TOWN REVIEWED TOWN ENGINEER
TOWN OF WHITCHURCH-STOUFFVILLE DATE:

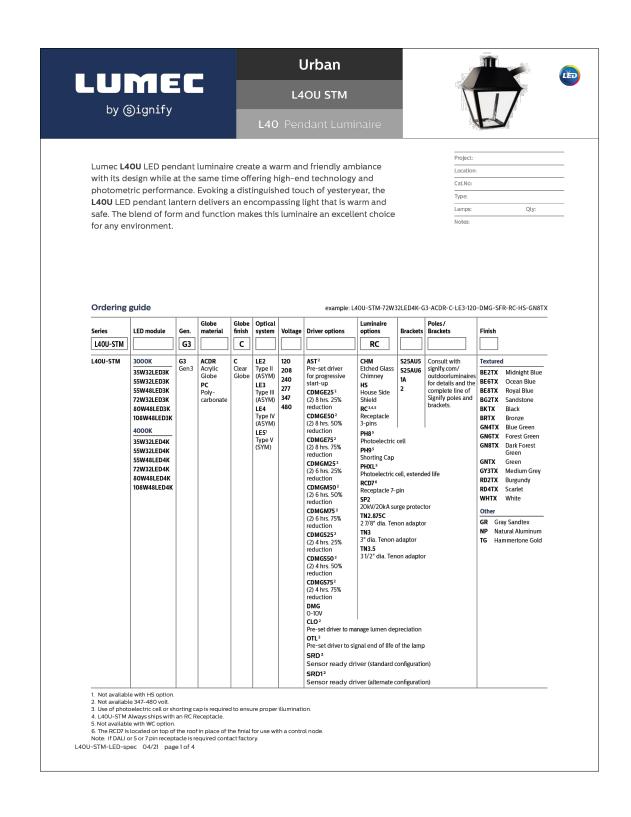


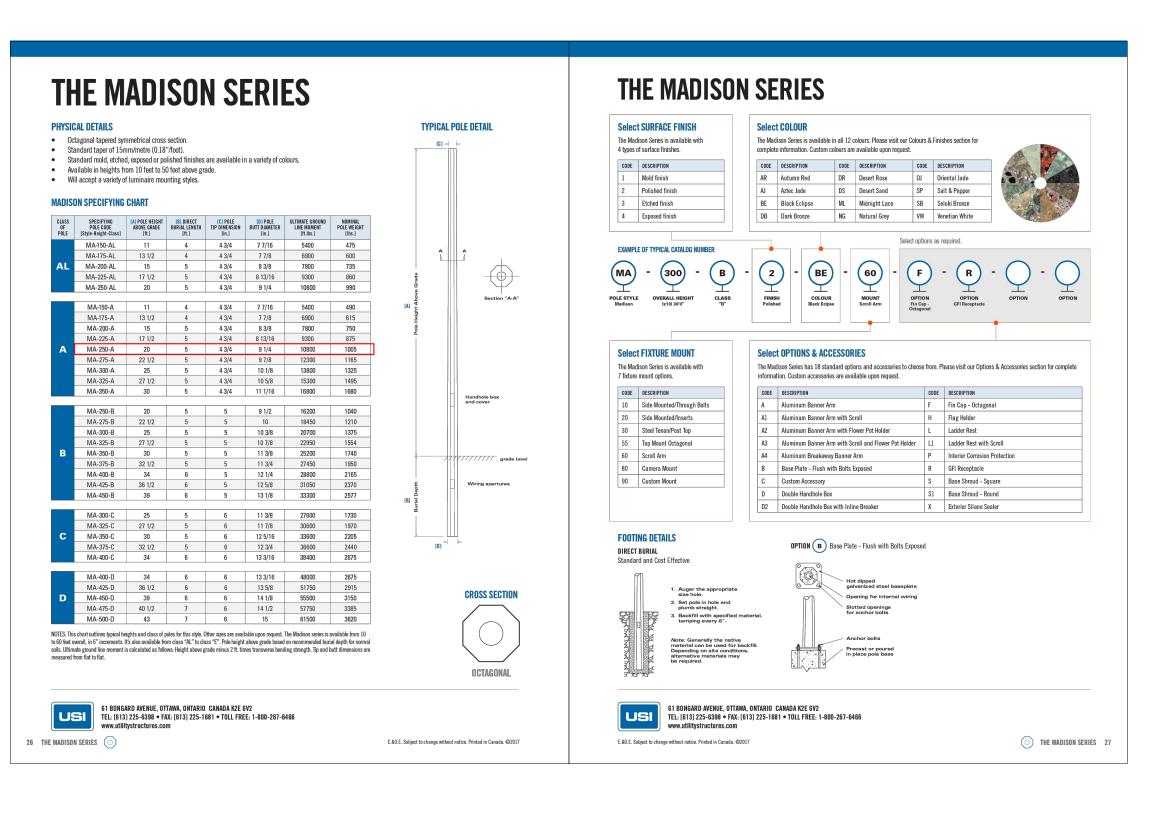
MADORI ELM ROAD XXX - XXX

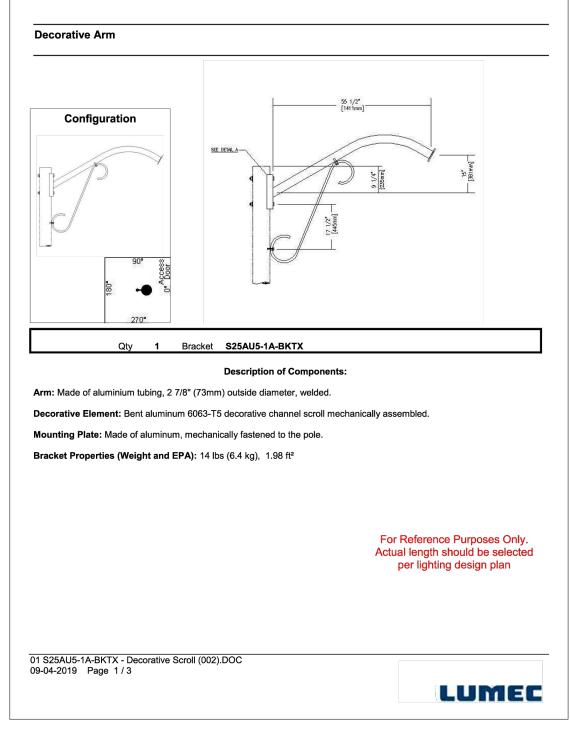
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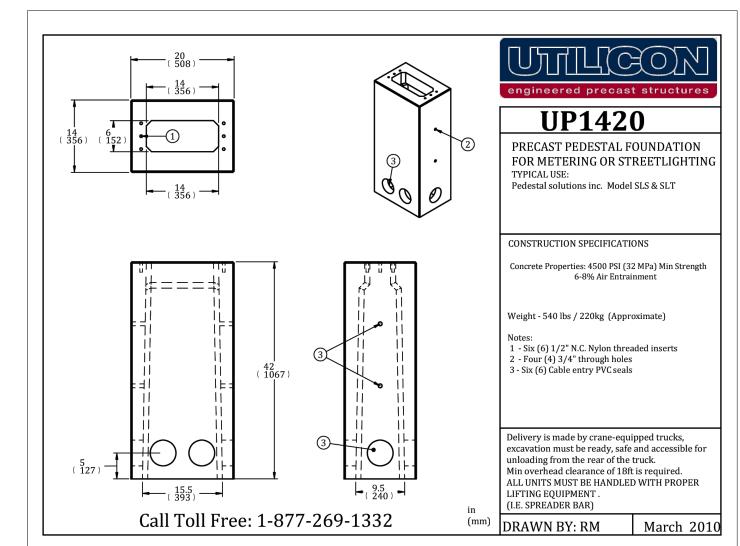
DRAWN BY: S.S	CHECKED BY: M.S	TOWN ID:	DRAWING NO.
DESIGNED BY: S.S	CHECKED BY: M.S	XXXX	Cl 2
SCALE: 1:250	DATE: 2023/03/29	^^^	JL-Z

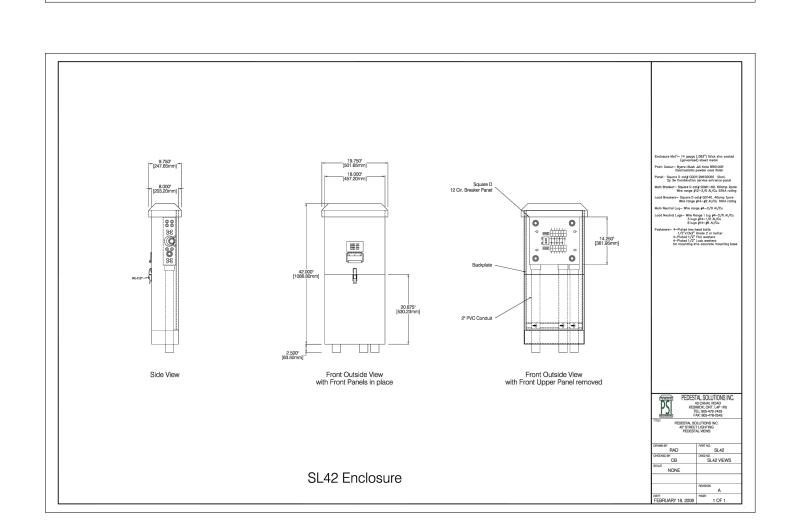


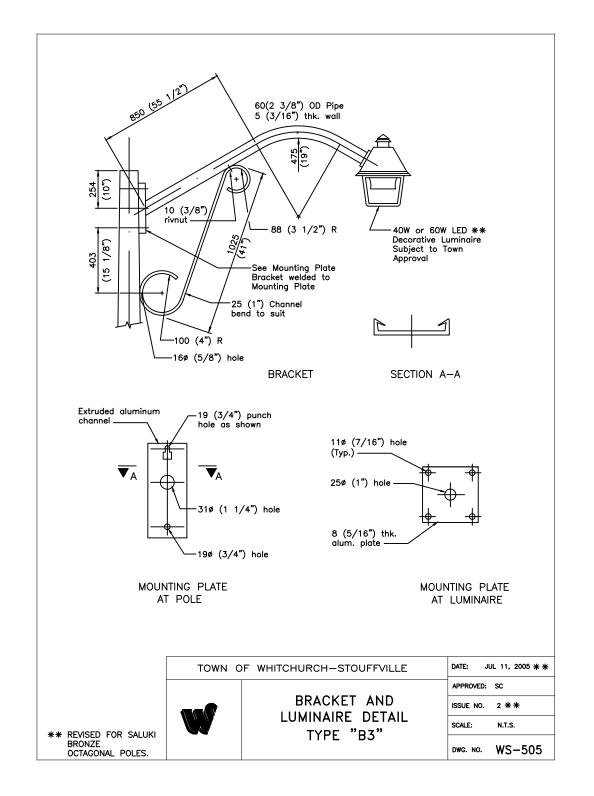


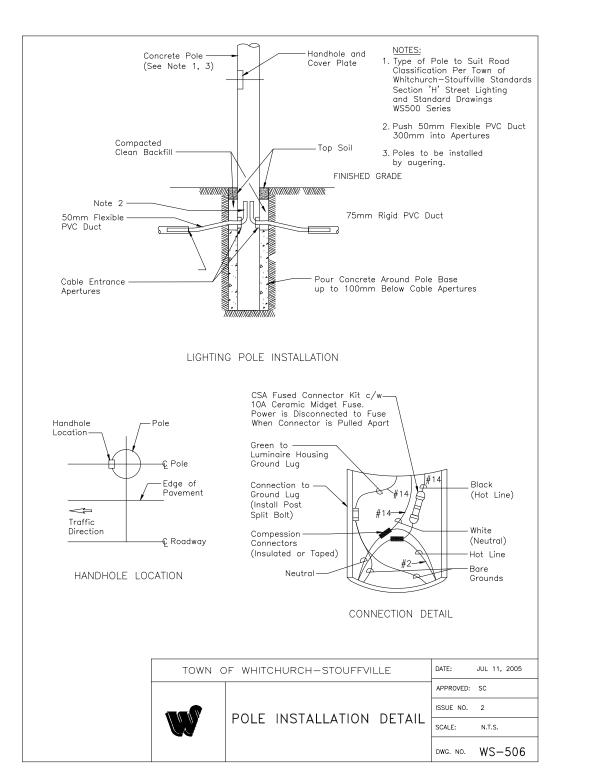


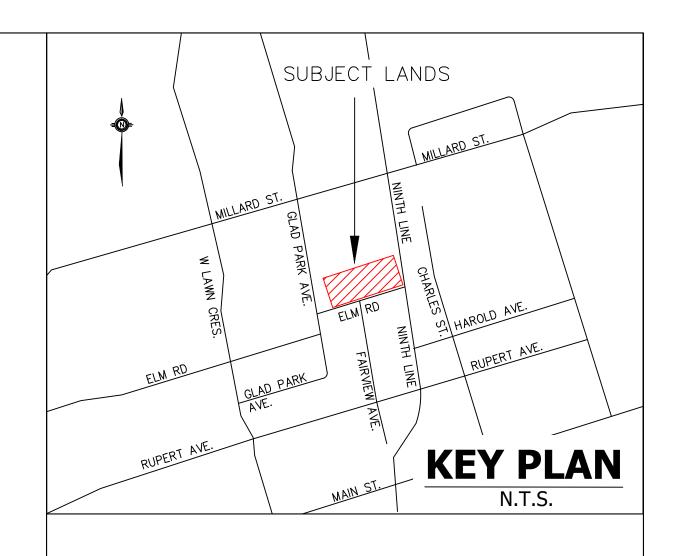














2ND SUBMISSION

1st SUBMISSION

DESCRIPTION

M.S

M.S

APPROVED

ELEVATIONS ARE GEODETIC AND ARE REFERRED TO THE TOWN OF MARKHAM BENCHMARK No. 00819768488 HAVING AN ELEVATION OF 255.290 METRES
ONE AND ONE HALF STOREY WHITE ALUMINUM SIDING HOUSE ON THE SOUTHEAST CORNER OF THE JCT OF HIGHWAYS 48 AND 47 AT RINGWOOD,
96.3 METRES EAST OF CENTERLINE OF HIGHWAY 48, AND 18.8 METRES SOUTH OF CENTERLINE OF HIGHWAY 47. TABLET IS SET HORIZONTALLY IN
WEST FACE OF CONCRETE FOUNDATION, 3.5 METRES SOUTH OF NORTHWEST CORNER, 69 CM BELOW ALUMINUM SIDING AND 30 CM ABOVE GROUND LEVEL.

BENCHMARK No. 00819768488

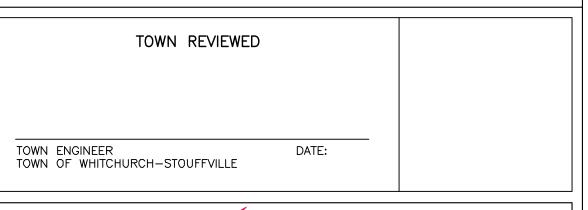
ELEVATION = 255.290m

2 S.S 25/06/30

BY

B M.K. SHARMA 100538752 3JULY2025) S.S 23/05/16

DATE





MADORI ELM ROAD

DETAIL DRAWING					
DRAWN BY: S.S	CHECKED BY: M.S	TOWN ID:	DRAWING N		
DESIGNED BY: S.S	CHECKED BY: M.S	XXXX	Cl -		
SCALE: NITS	DATE: 2023/03/20	^^^	JL-		