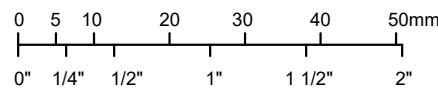


This drawing has been created electronically.

Handwritten or manual revisions to the drawing are only valid when accompanied by the design engineer's initials.

Do not scale drawings.
Check and verify all dimensions and information on the drawings and report all errors or omissions to the Consultant before proceeding with the work.
This drawing shall not be reproduced in any manner, in part or in whole, for any project other than that for which it was prepared.
This drawing, and all design concepts it contains, are an instrument of professional service and remain the property of Gerrits Engineering.

This drawing may have been reduced.



No.	Issuance Description	YY/MM/DD
1.	ISSUED FOR SITE PLAN APPROVAL	20/08/10

ISSUED FOR:

SITE PLAN APPROVAL

Client

DI GREGORIO

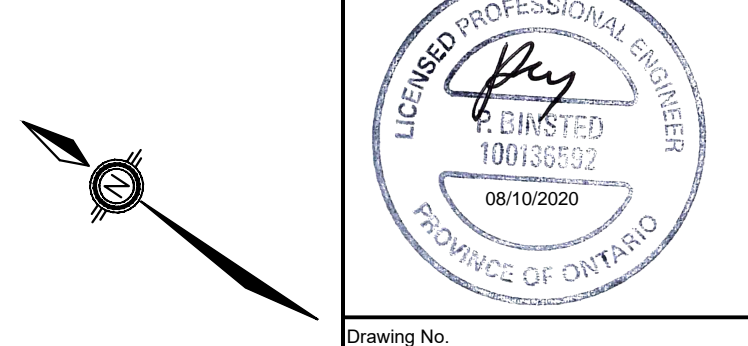
Project

76 BRYNE DRIVE, BARRIE, ON

Drawing

SITE PLAN PHOTOMETRY

Project No.	899-001-17	Designed by:	MG	Checked by:	PWB
Scale:	1:250	Drawn by:	MG	Approved by:	PWB
Orientation					



Drawing No.

E100

EXTERIOR LUMINAIRE SCHEDULE

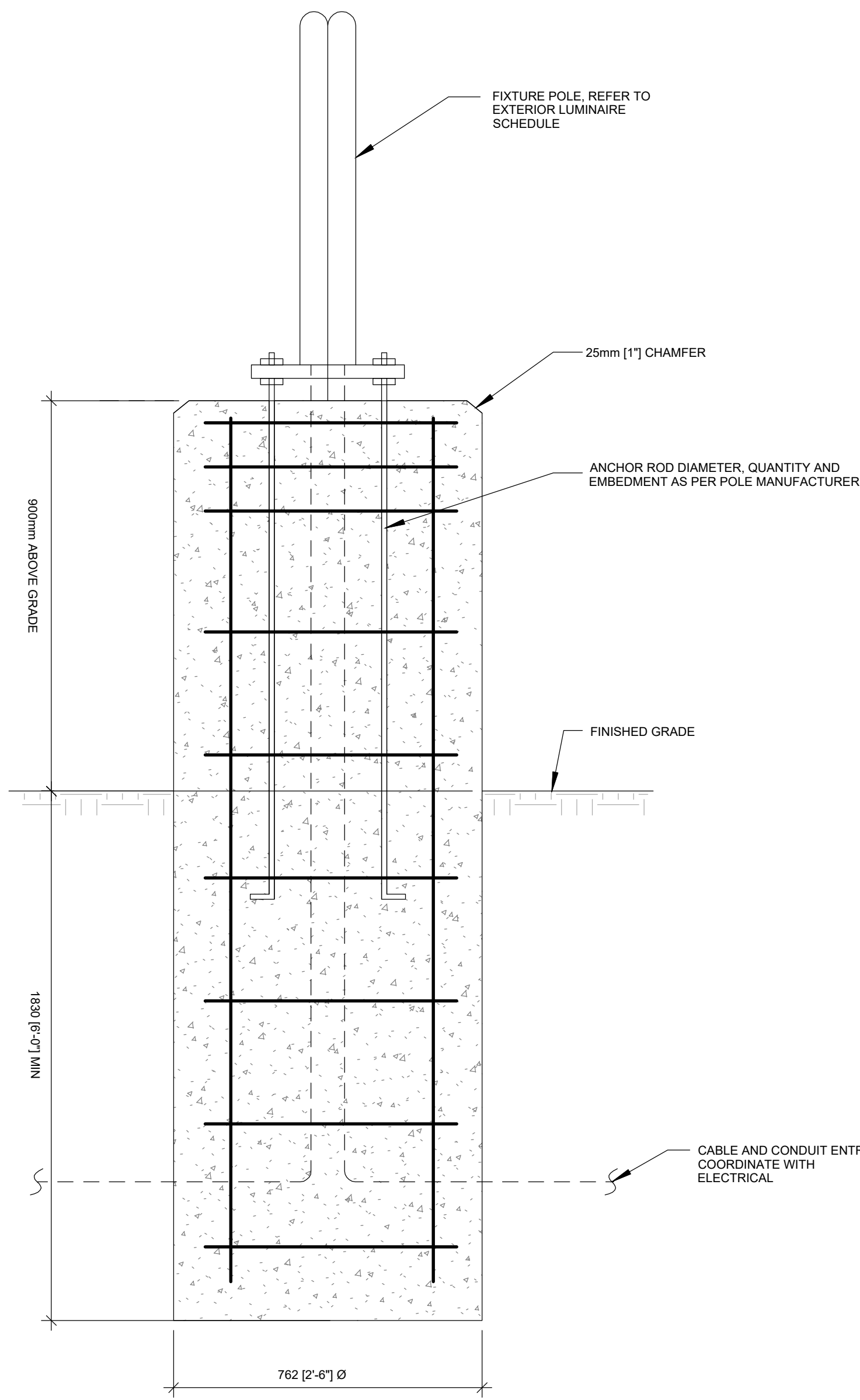
SYMBOL	TYPE MARK	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMP(S)	SUPPLY VOLTAGE	WATTS
	XA	LED LIGHT STANDARD: TYPE 3 DISTRIBUTION WITH HOUSE SIDE CUTOFF SHIELD, 7,500 LUMEN, FULL CUTOFF, BRONZE FINISH, DLC LISTED. MOUNT FIXTURE AT 7.62m (25').	RAB DESIGN	AL1-LED60-B-5K-T3-BRZ-HCO	LED-5000K	120VAC	62W
	XB	LED LIGHT STANDARD: TYPE 4 DISTRIBUTION, 12,000 LUMEN, FULL CUTOFF, BRONZE FINISH, DLC LISTED. MOUNT FIXTURE AT 7.62m (25').	RAB DESIGN	AL1-LED90-B-5K-T4-BRZ	LED-5000K	120VAC	100W
	XC	LED WALL PACK: 100,000 HOUR LED LIFE, 1,600 LUMEN, FULL CUTOFF, BRONZE FINISH, DLC LISTED. MOUNT AT 2.5m (8').	RAB DESIGN	GWL1-LED15-B-5K-BRZ	LED-5000K	120VAC	15W
	XD	LED WALL PACK: 100,000 HOUR LED LIFE, 1,400 LUMEN, FULL CUTOFF, BLACK FINISH, DLC LISTED. MOUNT AT 2.5m (8').	RAB DESIGN	WRDS-LED24-B-5K-BLK	LED-5000K	120VAC	22W

PHOTOMETRIC PARKING LOT RESULTS

AVERAGE ILLUMINATION :	12.48
AVERAGE MINIMUM :	10.02
LIGHT LOSS FACTOR :	0.90

GENERAL NOTES:

- ALL EXTERIOR LUMINAIRES SHALL BE CONTROLLED THROUGH A CENTRAL TIMER AND PHOTOCELL. OPERATING HOURS TO BE CONFIRMED WITH PHOTOCELL SHALL OVERRIDE TIMER WHEN DAYLIGHT IS AVAILABLE.
- CALCULATION POINTS ARE ON A 3m x 3m GRID.
- LIGHT LEVELS SHOWN ARE AT GRADE.
- LIGHT LEVELS SHOWN ARE IN LUX.
- EXISTING STREET LIGHTING NOT MODELLED OR SHOWN.
- LUMINAIRE MOUNTING HEIGHTS AS SHOWN ON DRAWING.



2 EXTERIOR LIGHT STANDARD BASE DETAIL
SCALE: NTS

SITE PLAN NOTES

1. INSTALLATION RESPONSIBILITIES

- ELECTRICAL CONTRACTOR:
- ALL ON-SITE CIVIL WORK;
 - SUPPLY AND INSTALL THE PRIMARY AND SECONDARY DUCT BANKS ON PRIVATE PROPERTY;
 - SUPPLY AND INSTALL THE SECONDARY CABLE;
 - SUPPLY AND INSTALL THE TRANSFORMER FOUNDATION, GROUNDING GRID, AND BOLLARDS;
 - SUPPLY AND INSTALL METERING CABINETS/SOCKET/SWITCHBOARD;
 - OBTAIN ALECTRA UTILITIES APPROVAL AND INSPECTION FOR ALL RELATED WORK PRIOR TO AND DURING INSTALLATION.

ALECTRA UTILITIES:

- SUPPLY AND INSTALL THE PRIMARY CABLE;
- SUPPLY AND INSTALL THE TRANSFORMER (OWNED BY ALECTRA UTILITIES);
- PRIMARY AND SECONDARY CONNECTIONS AT THE TRANSFORMER;
- REVENUE METERING;
- ALL OFF PROPERTY WORK RELATED TO ELECTRICAL SERVICE.

2. CLEARANCES

2m CLEARANCES AROUND THE BACK AND SIDES, AND 3m CLEARANCE AROUND THE FRONT OF THE TRANSFORMER SHALL BE MAINTAINED. REFER TO ALECTRA UTILITIES CONSTRUCTION STANDARD 17-140.

3. TRANSFORMER AND FOUNDATION INSTALLATION

IN ACCORDANCE WITH ALECTRA UTILITIES CONSTRUCTION STANDARDS 17-106, 17-140, 17-306, 17-308A, TRANSFORMER PAD LOCATION SHALL BE MINIMUM 3m AND MAXIMUM 4.5m FROM PARKING AREA DRIVEWAY, OR HARD SURFACE.

4. GUARD POSTS

SUPPLY GUARD POST BOLLARDS IF TRANSFORMER IS LESS THAN 3m FROM TRAVELED AREA OR AS INDICATED BY ALECTRA. REFER TO ALECTRA CONSTRUCTION STANDARDS 17-107 AND 17-107A.

5. DUCT BANKS

INSTALL PRIMARY DUCT BANK TO ALECTRA UTILITIES CONSTRUCTION STANDARD 17-201. DETAIL #3. FOR SECONDARY DUCT BANK INSTALLATION AS PER THESE DRAWINGS.

6. GROUNDING GRID

INSTALL TRANSFORMER GROUNDING GRID AS PER ALECTRA UTILITIES CONSTRUCTION STANDARD 17-106A.

7. METERING

SUPPLY AND INSTALL METERING CABINET AS PER ALECTRA UTILITIES CONSTRUCTION STANDARDS 25-200/25-210/25-220/25-230.

LINE TYPE LEGEND	
— UTP — UTP —	UNDERGROUND THREE PHASE LINE
— UGF — UGF —	UNDERGROUND FEEDER
— UGS — UGS —	UNDERGROUND HYDRO SECONDARY

Gerrits
ENGINEERING

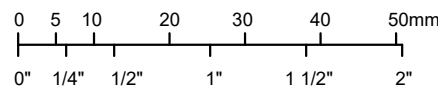
222 Mapleview Drive West, Suite 300, Barrie, ON, L4N 9E7 Canada
T: 705.737.3303, F: 705.737.1772
mail@gerrits.com
www.gerrits.com

This drawing has been created electronically.

Handwritten or manual revisions to the drawing are only valid when accompanied by the design engineer's initials.

Do not scale drawings.
Check and verify all dimensions and information on the drawings and report all errors or omissions to the Consultant before proceeding with the work.
This drawing shall not be reproduced in any manner, in part or in whole, for any project other than that for which it was prepared.
This drawing, and all design concepts it contains, are an instrument of professional service and remain the property of Gerrits Engineering.

This drawing may have been reduced.



No.	Issuance Description	YY/MM/DD
1.	ISSUED FOR SITE PLAN APPROVAL	20/08/10

ISSUED FOR:

SITE PLAN APPROVAL

Client

DI GREGORIO

Project

76 BRYNE DRIVE, BARRIE, ON

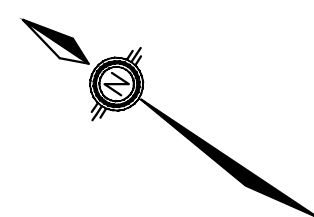
Drawing:

ELECTRICAL SITE PLAN

Project No.	899-001-17	Designed by:	MG	Checked by:	PWB
Scale:	1:250	Drawn by:	MG	Approved by:	PWB

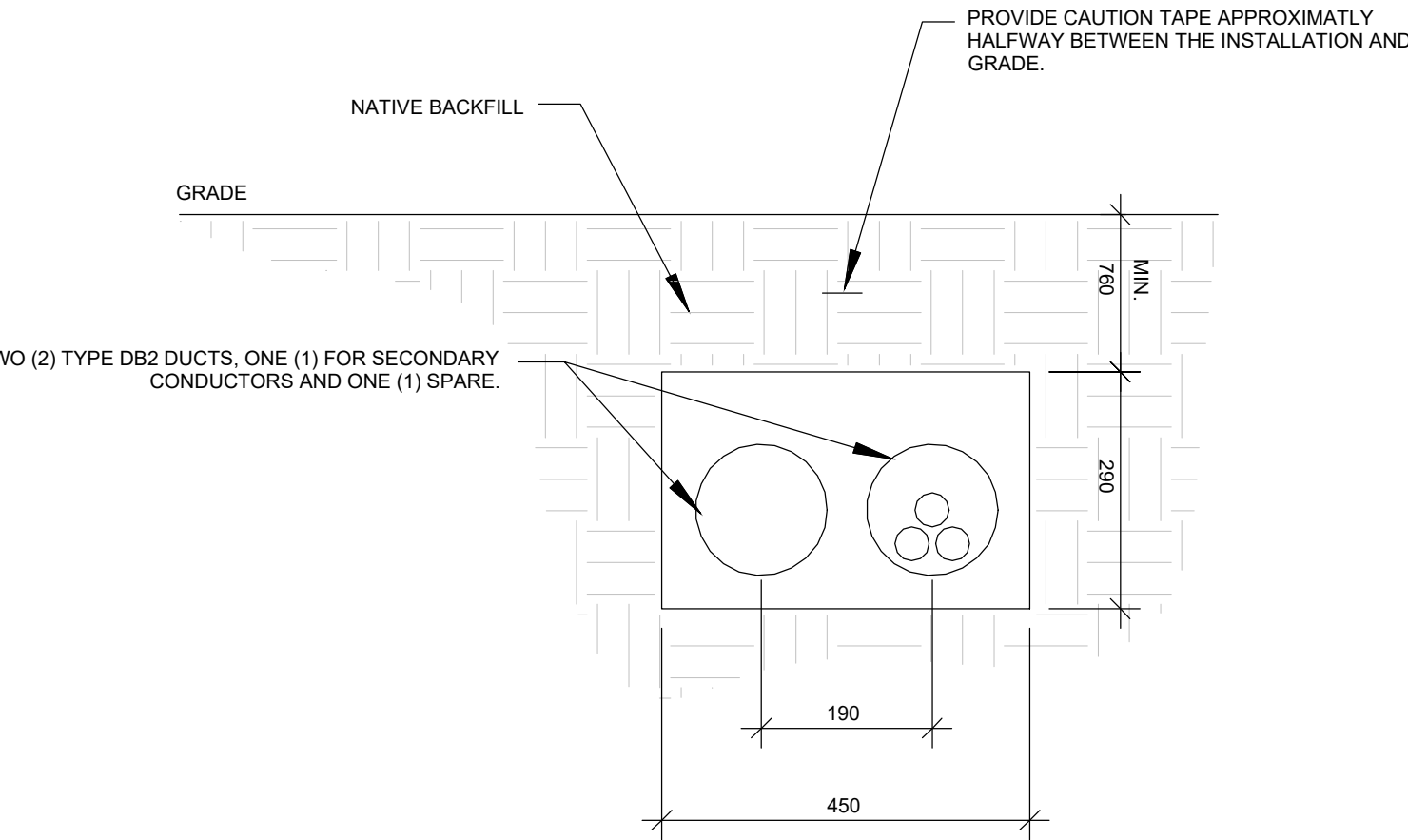
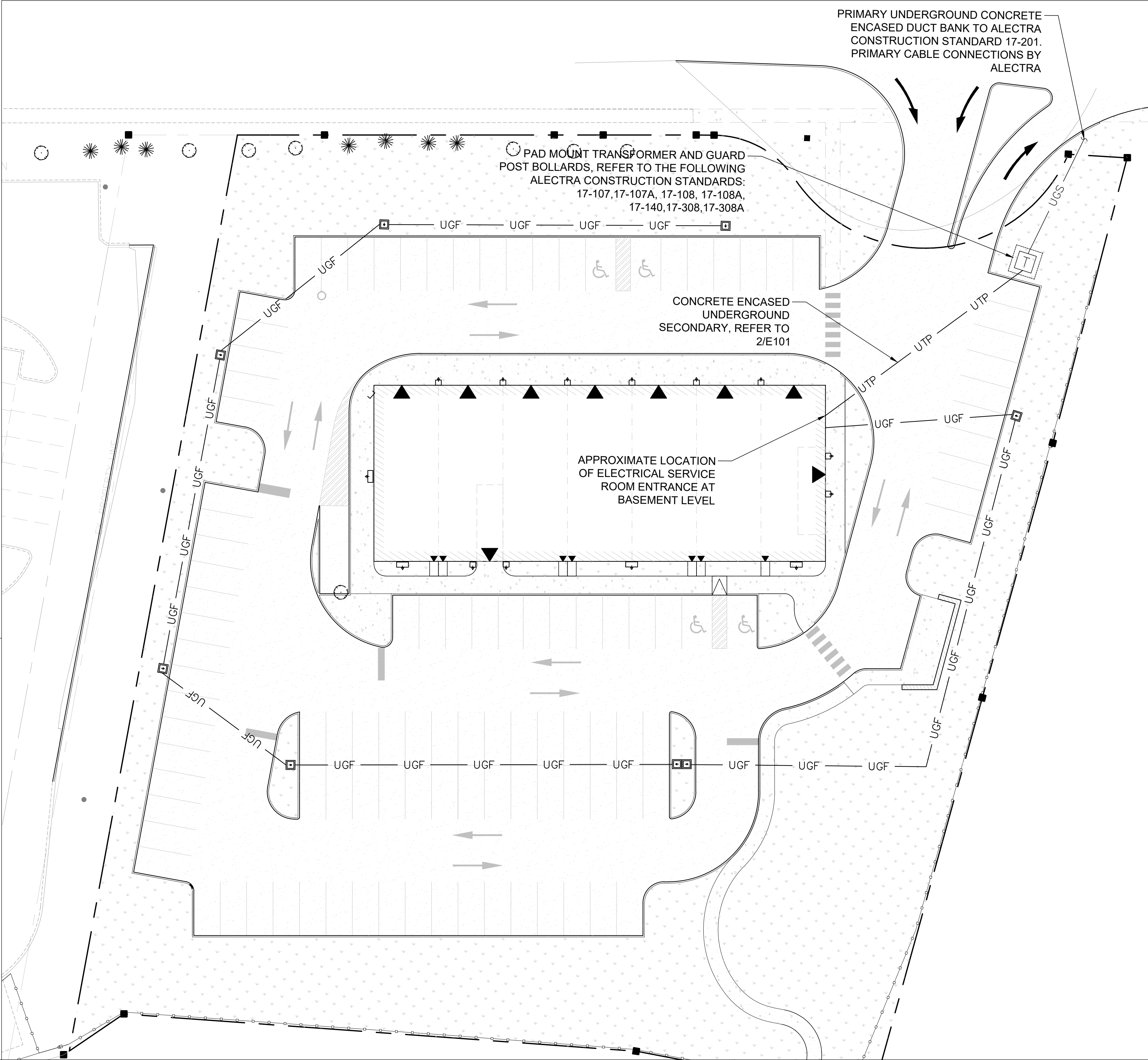
Orientation

Stamp



Drawing No.

E101



- NOTES:
1. BASED ON DETAIL 1 (1 CABLE PER PHASE) DIAGRAM D11 OF THE ONTARIO ELECTRICAL SAFETY CODE.
 2. REFER TO SINGLE LINE DIAGRAM FOR CONDUCTOR AND CONDUIT REQUIREMENTS.

2 UNDERGROUND SECONDARY DETAIL
SCALE: N.T.S.