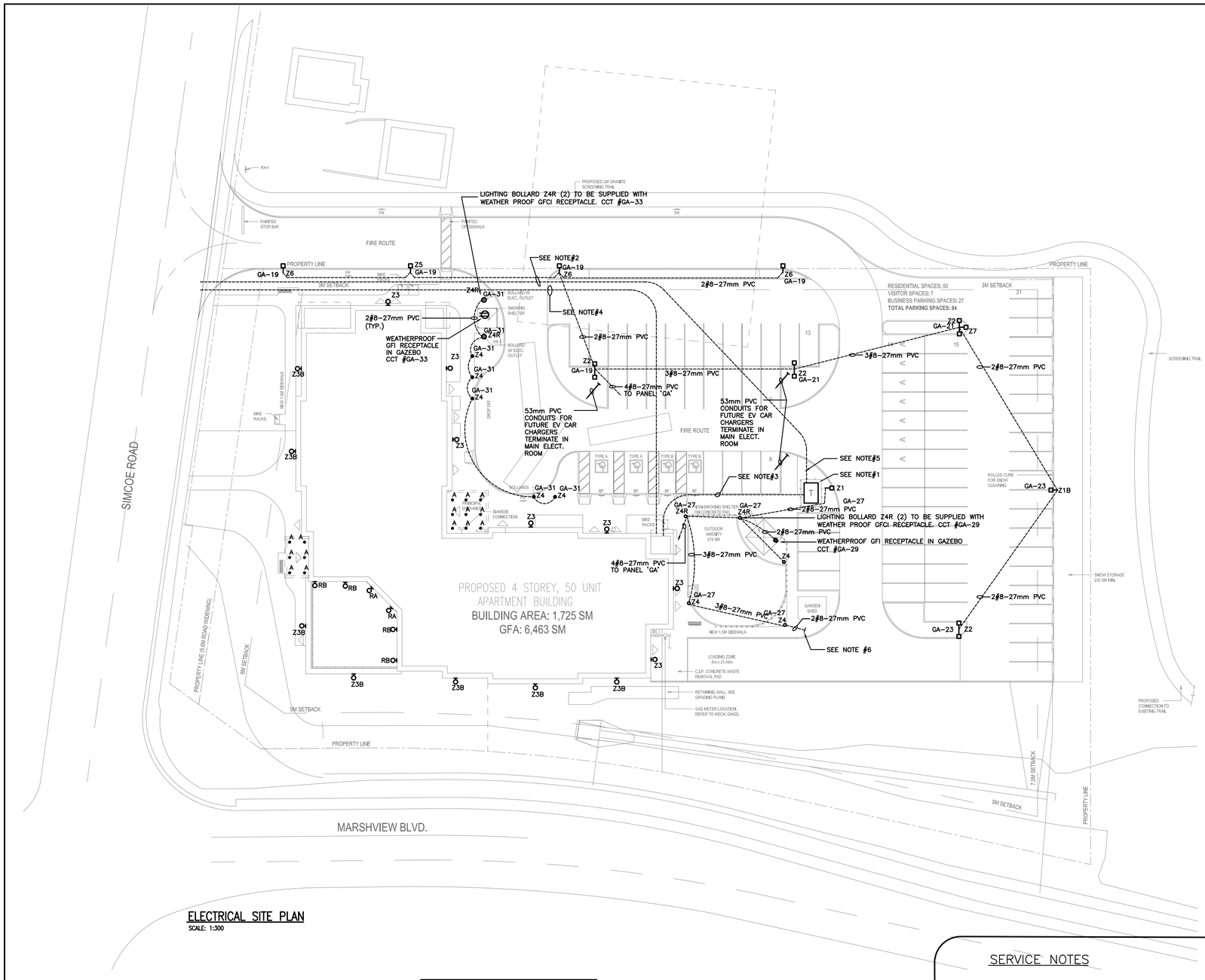



## ELECTRICAL SITE PLAN

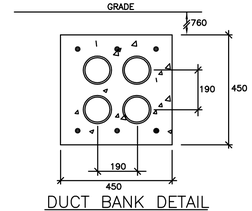
SCALE: 1:300

## NOTES:

1. FOR EXTERIOR BUILDING LIGHTING SEE DRAWING #E2A.
2. ALL UNDERGROUND WIRING FOR EXTERIOR LIGHTING TO BE TYPE RW90.

## SERVICE NOTES

1. TRANSFORMER PAD SUPPLIED & INSTALLED BY ELECTRICAL CONTRACTOR TO SUIT ALECTRA UTILITIES, INCLUDING ALL GROUNDING, CABLE LUGS ETC. TRANSFORMER & FINAL CONNECTIONS BY ALECTRA UTILITIES.
2. 4–103mm PVC TYPE II DUCTS IN 78mm RE–INFORCED CONCRETE ENVELOPE BURIED MIN. 760mm BELOW GRADE. EXACT ROUTING AND TERMINATION TO SUIT ALECTRA UTILITIES. DUCT BANK CONSTRUCTION SEE ALECTRA UTILITIES 3 PHASE TRANSFORMER CONSTRUCTION DETAILS.
3. SUPPLY AND INSTALL 3–104mm PVC TYPE II DUCTS IN 78mm RE–INFORCED CONCRETE ENVELOPE BURIED MIN. 760mm BELOW GRADE. EXACT ROUTING AND TERMINATION COORDINATE WITH ALECTRA UTILITIES–LEAVE 1 DUCT SPARE
4. 4–103mm PVC TYPE II DUCTS BURIED MIN 610mm BELOW GRADE FOR TELEPHONE SERVICE. EXACT ROUTING & TERMINATION TO BE VERIFIED WITH LOCAL TELEPHONE/DATA SUPPLIER PRIOR TO INSTALLATION. 2 DUCTS ARE FOR FUTURE USE.
5. PROTECTIVE BOLLARDS SUPPLIED AND INSTALLED BY ELECTRICAL CONTRACTOR TO SUIT ALECTRA STANDARDS
6. PROVIDE WEATHER PROOF GFI RECEPTACLE AND TYPE P LIGHT C/W SWITCH FOR SHED CCT #GA–25

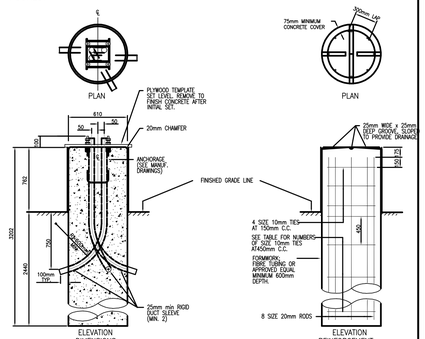



## DUCT BANK DETAIL

(4 DUCTS AS PER NOTE #2)

## NOTES:

- CLASS OF CONCRETE . . . . . .30MPa.
- REINFORCING STEEL SHALL BE GRADE 400.
- CLEAR COVER TO REINFORCING STEEL SHALL BE 80mm ± 20mm EXCEPT AS NOTED.
- EXCAVATION FOR PLACEMENT OF ELECTRICAL CONDUITS NOT TO EXCEED 1.2m BELOW TOP OF FOOTING. CONDUIT LOCATION TO BE SUITABLY MARKED ON TOP OF FOOTING.
- POLE ANCHOR BOLTS SHALL BE VERTICALLY INSTALLED IN THE CORRECT LOCATIONS. NO ADJUSTMENT SHALL BE ALLOWED AFTER CONCRETE PLACEMENT.
- CONCRETE TO BE PLACED AGAINST UNDISTURBED SOIL. THE FOUNDATION MAY BE CONSTRUCTED BY DRIVING AN OPEN END STEEL LINER TO THE ELEVATION OF THE BASE, AND EXCAVATING BY AUGERING OR OTHER SUITABLE METHOD. THE LINER MAY BE WITHDRAWN AS THE CONCRETE IS POURED.
- THE CONTRACTOR SHALL CHECK NUMBER OF ANCHOR BOLTS, AND BOLT CIRCLE DIAMETER FOR THE POLE PRIOR TO PLACING CONCRETE.
- ANCHORAGE ASSEMBLY SHALL BE PROVIDED WITH WOODEN OR STEEL TEMPLATES.
- ANCHOR RODS ARE ROUND BARS QUENCHED AND TEMPERED MEDIUM CARBON STEEL WITH MINIMUM YIELD OF 517MPa (MINIMUM TENSILE STRENGTH 725MPa) AND SHALL SATISFY CHARPY V–NOTCH REQUIREMENTS FOR 20 JOULES AT MINUS 30°C.
- ALL WATER SHALL BE REMOVED PRIOR TO CONCRETE PLACEMENT.
- CONTRACTOR SHALL MAINTAIN THE STABILITY OF THE CAISSON BASE AND SIDEWALLS FROM THE TIME OF DRILLING THE CAISSON HOLE TO PLACING THE CONCRETE.
- MINIMUM OF TWO (2) SLEEVES REQUIRED FOR EACH CONCRETE FOOTING.




| | FOOTING 'A' (m) | FOOTING 'B' (m) | FOOTING 'C' (m) | BOLT CIRCLE DIA. (B.C.D.) (mm) | TIES AT 150mm C.C. | | | TIES AT 450mm C.C. | | | REINFORCING BARS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | DEVELP. LENGTH | SIZE | # REQ'D | DEVELP. LENGTH | SIZE | # REQ'D | LENGTH | SIZE | # REQ'D |
| HIGH FOOTING (762 mm ABOVE GRADE | 2440 | 610 | 3202 | TO SUIT | 300mm | 10 | 4 | 300mm | 10 | 6 | 3000 | 20 | 8 |

## ANCHORAGE ASSEMBLY FOR MEDIUM MAST LIGHTING POLE (VERIFY WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION

NOTE CONCRETE BASE TO BE ARTFORM KELLAMY 610R C/W YELLOW REFLECTIVE BAND

N.T.S.

POLE SPEC: 13 FEET POLE WITH 14"SQ BASE. INFLUX LIGHTING CAT# P422–2SQ–4SST–11C–13–RAL8019

| No. | REVISION | DATE |
|---|---|---|
| 03 | ISSUED FOR PERMITS | APR. 08, 2022 |
| 02 | ISSUED FOR 90% REVIEW | FEB. 24, 2022 |
| 01 | ISSUED FOR 60% REVIEW | JAN. 11, 2022 |

REVISIONS

ALL DIMENSIONS TO BE CHECKED AND VERIFIED ON SITE. DISCREPANCIES TO BE REPORTED TO THE ARCHITECT. LATEST APPROVED STAMPED DRAWINGS ONLY TO BE USED FOR CONSTRUCTION.

LICENSED PROFESSIONAL ENGINEER
A. A. OBERFELD
APR. 08/22
PROVINCE OF ONTARIO

TRISTAR ENGINEERING
Division of 1041549 Ontario Limited
8901 Woodbine Avenue, Unit #116
Markham, Ontario
Canada, L3R 9Y4
(905) 604–3801
Fax (905) 604–3954

DRAWING TITLE:

**SITE PLAN AND DETAILS**

PROJECT NAME:

SIMCOE COUNTY AFFORDABLE HOUSING - BWG

125 SIMCOE RD, BRADFORD WEST GWILLIMBURY, ON

SIMCOE COUNTY

| DATE: | SEP, 2021 | PROJECT # | SHEET # |
|---|---|---|---|
| DRAWN BY: | DP/JP | 2021-123 | E1A |
| SCALE: | 1:300 | | |