

LEGEND:

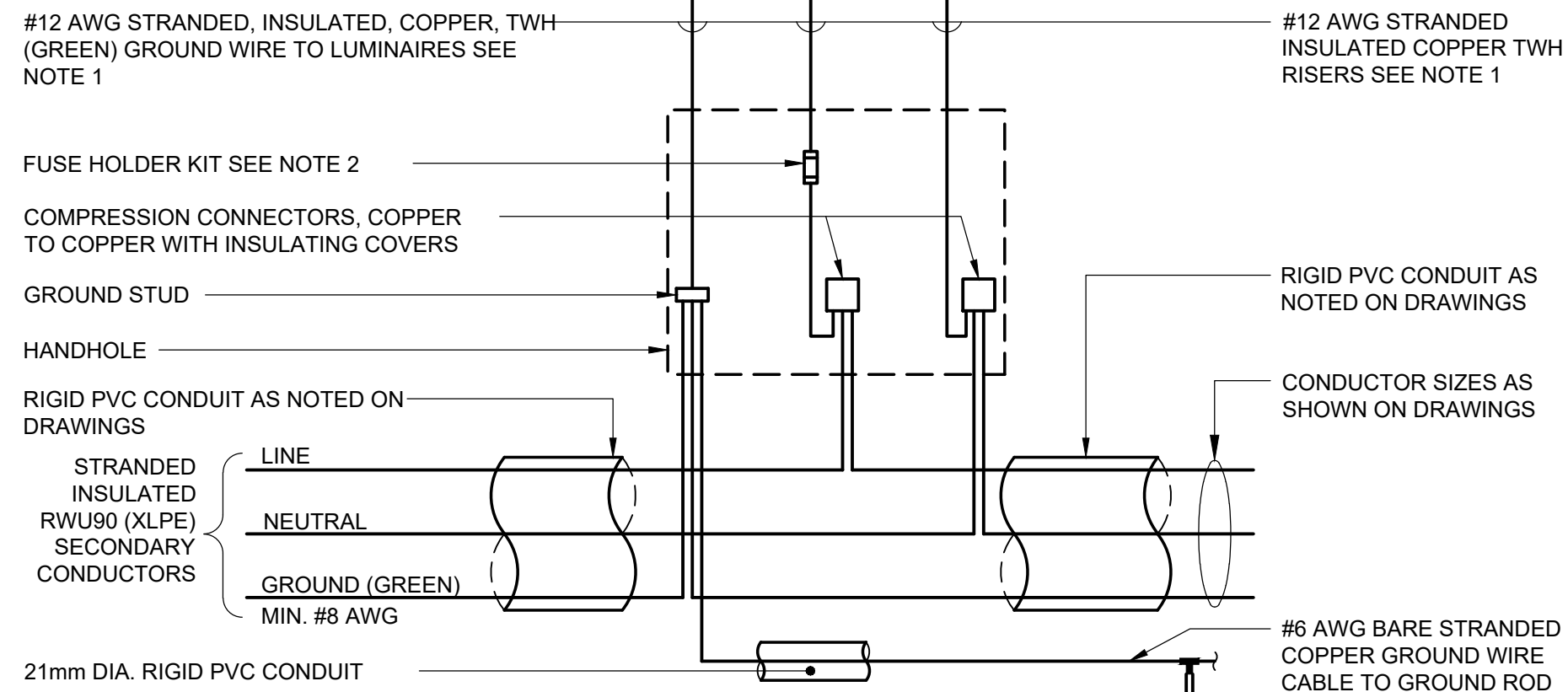
- UNDERGROUND RIGID PVC CONDUIT C/W WIRING
- 37W LED LUMINAIRE C/W 8.858m POLE DIRECT BURIED
- HANDWELL
- GROUND ROD 3m LONG
- POWER SUPPLY PEDESTAL NO. 1
- DENOTES LIGHTING POLE P1
- EXISTING LIGHTING STANDARD WITH (2) FLOOD LIGHTS
- POWER PEDESTAL PP-1
- LIGHTNING ARRESTER
- SURGE PROTETOR

ABBREVIATIONS:

- AWG AMERICAN WIRE GAUGE
- AL ALUMINUM
- C/W COMPLETE WITH
- DIA. DIAMETER
- EX. EXISTING
- JB JUNCTION BOX

GENERAL NOTES:

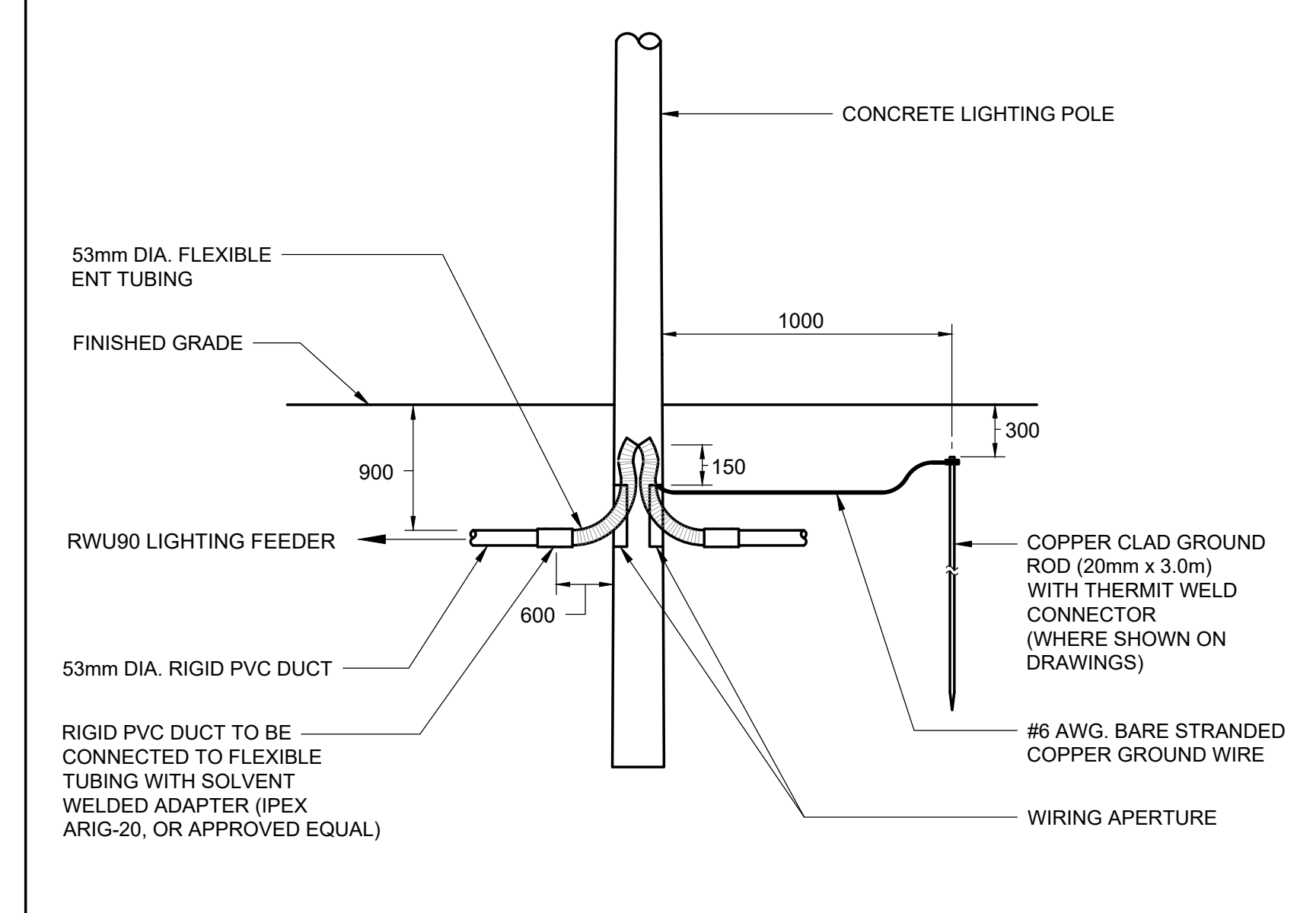
1. ALL DIMENSIONS AND INFORMATION SHALL BE CHECKED AND VERIFIED ON THE JOB AND ANY DISCREPANCIES MUST BE REPORTED BEFORE COMMENCING THE WORK.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL UNDERGROUND STAKE-OUT AND UTILITY LOCATES. PRIOR TO CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE TO ENGAGE A QUALIFIED UTILITY LOCATE SPECIALIST FOR THE PROJECT AND INCLUDE ALL COSTS. THE CONTRACT DRAWINGS DO NOT SHOW EXISTING UNDERGROUND UTILITIES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO BECOME INFORMED OF THE EXACT LOCATION OF, AND ASSUME ALL LIABILITY FOR DAMAGE TO ALL UTILITIES, SERVICES, AND STRUCTURES WHETHER ABOVE GROUND OR BELOW GRADE.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING SERVICES AND UTILITIES IN WORKING AREA PRIOR TO CONSTRUCTION AND SHALL PROTECT THESE SERVICES AND UTILITIES TO THE SATISFACTION OF THE CONCERNED UTILITY COMPANIES AND OWNER. DAMAGES BY THE CONTRACTOR SHALL BE RESTORED TO THE OWNER AT NO EXPENSE TO THE OWNER.
4. REPAIR AFFECTED FIELD, ASPHALT, CONCRETE, BRICK AND OTHER SURFACES TO MATCH EXISTING CONDITIONS. INCLUDE ALL COSTS TO REPAIR AFFECTED SURFACES.
5. FOLLOW CITY OF TORONTO "TREE PROTECTION POLICY" WHEN TRENCHING AROUND TREES.
6. CONTRACTOR SHALL REMOVE AND DISPOSE OF EXISTING DIRECT BURIED WOOD POLES OFF SITE. COORDINATE WITH OWNER PERSONNEL AS NECESSARY.
7. PROPOSED CONDUIT AND POLE LOCATIONS SHOWN ON DRAWING IS FOR DIAGRAMMATIC PURPOSES ONLY. EXACT LOCATIONS TO BE DETERMINED IN FIELD UPON RECEIPT OF LOCATES.



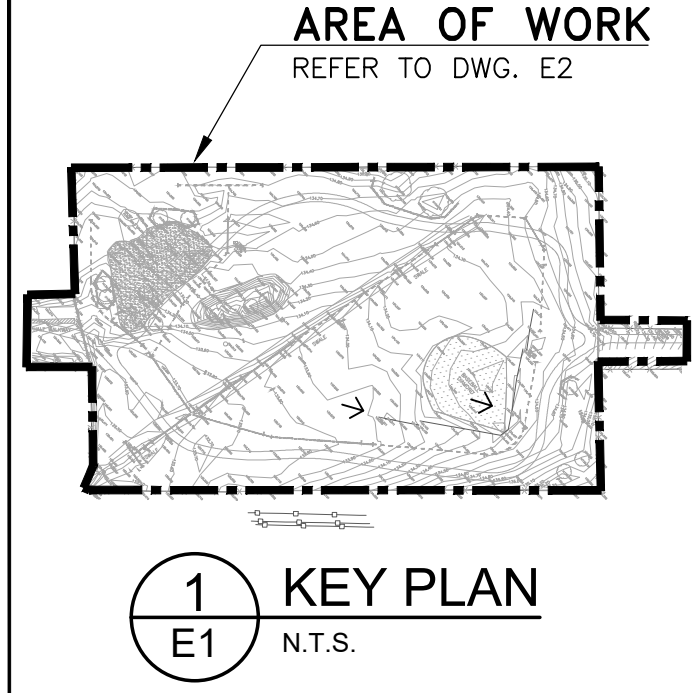
NOTES:

1. BROKEN LINES INDICATE ADDITIONAL CONDUCTORS FOR DOUBLE LUMINAIRE INSTALLATION AND / OR ALTERNATE CIRCUIT IN ACCORDANCE WITH PLATFORM LIGHTING AND WIRING DIAGRAM DRAWINGS.
2. IN-LINE WATERPROOF FUSEHOLDER 600V, 30A WITH BREAKAWAY FEATURE. GOULD GEB-11-11 C/W WATERPROOF INSULATING BOOTS AND ONE 10 AMP FUSE TYPE KTK 600 VOLTS OR APPROVED EQUAL.
3. ALL GROUNDING WIRES TO BE FITTED WITH COMPRESSION LUGS BEFORE SECURING TO GROUND STUD IN POLE.

2 PATHWAY LIGHTING STANDARD POLE WIRING DIAGRAM (120V SYSTEM)
SCALE: N.T.S.



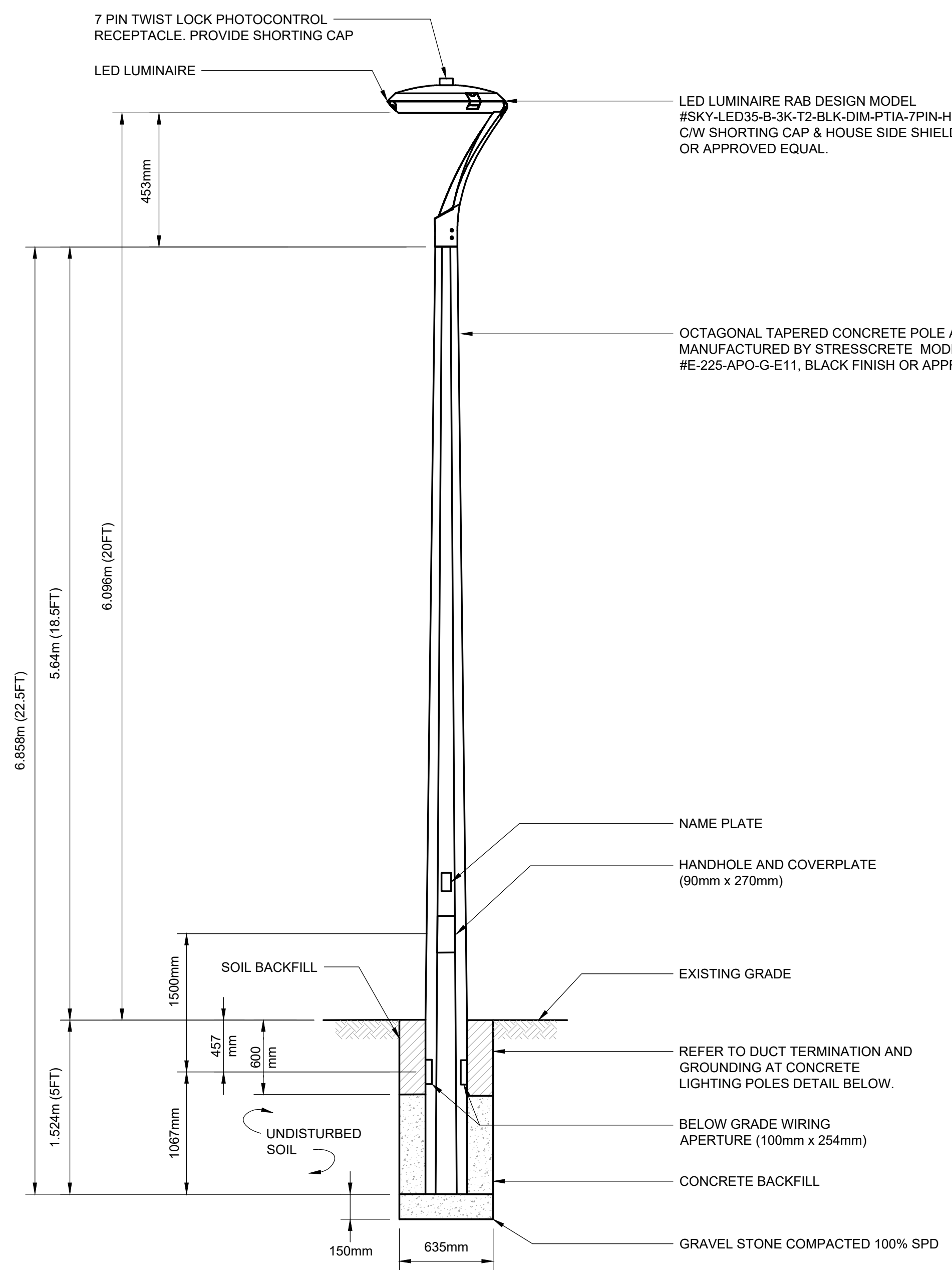
3 DUCT TERMINATION & GROUNDING AT CONCRETE LIGHTING POLES
SCALE: N.T.S.



1 KEY PLAN
E1 N.T.S.

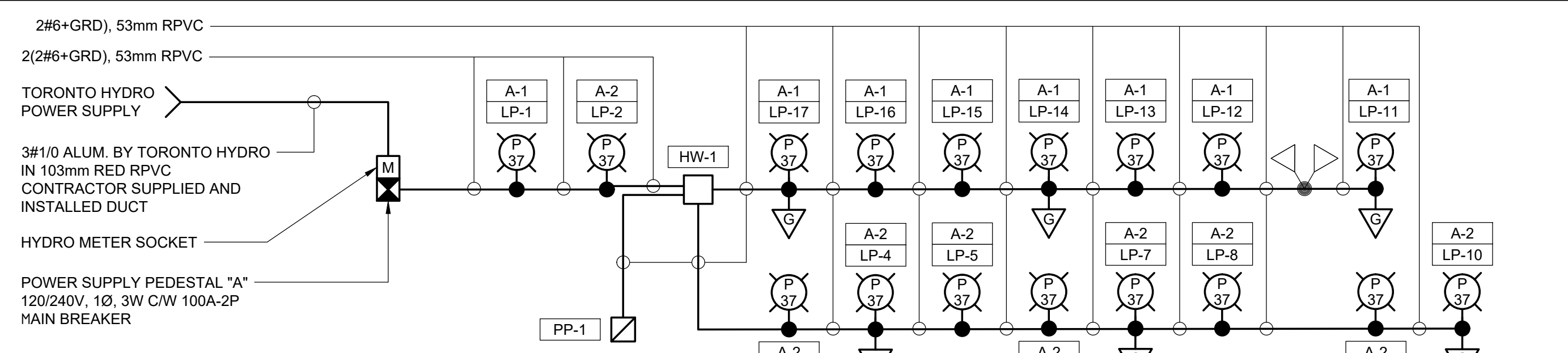
SUMMARY OF: LIGHTING POLE ASSEMBLIES

POLE No.	LOCATION			POLE		ARM BRACKET			LUMINAIRE				NOTES		
	PATHWAY NAME	STATION	DIST. FROM E/P	INSLT.	MAT.	LENGTH	INSLT.	MAT.	LENGTH	INSLT.	LAMP WATTAGE	LAMP TYPE		DIST. TYPE	PC
LP-1	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-2	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-3	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-4	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-5	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-6	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-7	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-8	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-9	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-10	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-11	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-12	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-13	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-14	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-15	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-16	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF
LP-17	KF WALLACE SWANEK PARK	-	1.0m	NEW	CONCRETE	6.86m (22'-6")	-	-	-	NEW	36.4	LED	II	-	C/W HOUSE SIDE CUTOFF

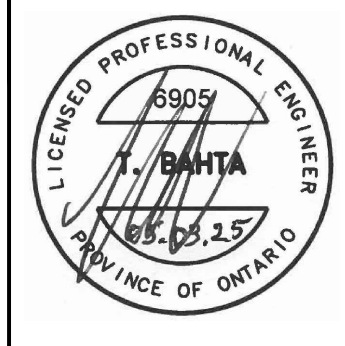


5 LIGHTING STANDARD DETAIL
SCALE: N.T.S. (TYPICAL FOR ALL POLES)

- NOTES:**
- ALL EXCAVATIONS MUST BE FREE OF LOOSE SOIL AND DEBRIS PRIOR TO FOUNDATION INSTALLATION AND CONCRETE BACKFILL PLACEMENT. TEMPORARY CASINGS OR DRILLERS SLURRY MAY BE USED TO STABILIZE THE EXCAVATION DURING INSTALLATION. CASINGS MUST BE REMOVED DURING CONCRETE BACKFILL PLACEMENT. CONCRETE BACKFILL MUST BE PLACED WITH A TREMIE WHEN SLURRY OR WATER IS PRESENT WITHIN THE EXCAVATION OR WHEN THE FREE DROP EXCEEDS 1.8m (6.0').
 - CONCRETE:**
CONCRETE SHALL BE AIR-ENTRAINED AND HAVE A MINIMUM COMPRESSIVE DESIGN STRENGTH AT 28 DAYS OF 20 MPa (2,900 PSI). 20 MPa (2,900 PSI) CONCRETE SPECIFIED FOR EARLY POLE ERECTION. ACTUAL REQUIRED MINIMUM ALLOWABLE CONCRETE STRENGTH IS 7 MPa (1,000 PSI). ALL PIERS AND CONCRETE BACKFILL MUST BEAR ON AND AGAINST FIRM UNDISTURBED SOIL.
 - PROVIDE COMPACTION TESTING FOR GRANULAR MATERIAL AT POLE BASE FOR APPROVAL BY CONSULTANT.



4 WIRING DIAGRAM
E1



1	2025/03/05	ISSUED FOR TENDER
0	2024/07/05	ISSUED FOR CLIENT REVIEW

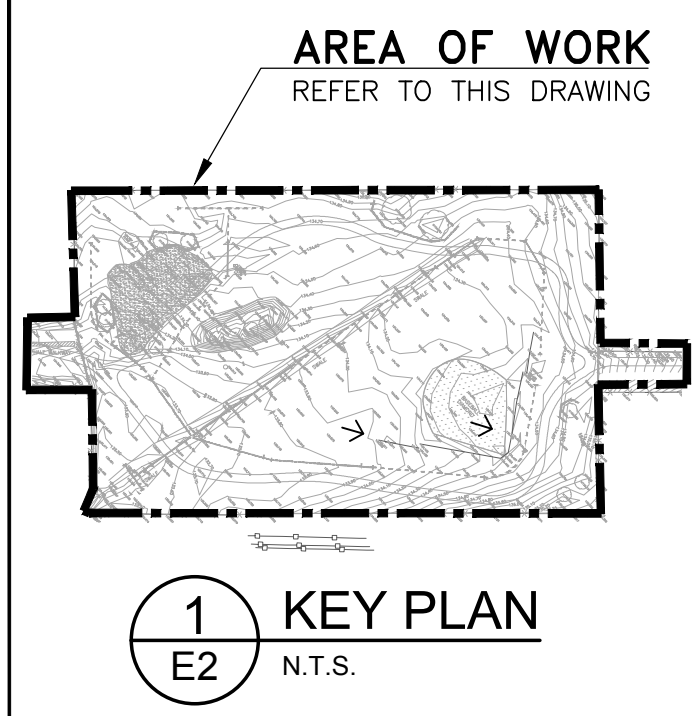
NO.	DATE	REVISIONS

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TITLE
KF WALLACE SWANEK PARK PATHWAY LIGHTING
 LEGEND, ABBREVIATIONS, NOTES, SCHEDULE, DIAGRAM AND DETAILS

DATE:	SCALE:
APR. 2024	AS NOTED
FILE NO.:	DRAWING NO.:
6905-E1	E1



2#6+GRD, 53mm RPVC

POWER SUPPLY CABINET NO.1
100A, 120/240V, 1Ø, 3W

TORONTO HYDRO
METER SOCKET

1-103mm RED COLOUR
RPVC DUCT BY THIS
CONTRACTOR. REFER
TO TORONTO HYDRO
DRAWING 2024-0125596.
DUCT TO BE CONCRETE
ENCASED UNDER
VEHICULAR AREAS
AND AT ALL 90 DEGREE
BENDS AS PER THESE
STANDARD 31-1120.

EXISTING TORONTO HYDRO
POLE #245. PROVIDE 1-103mmØ
RED COLOUR RIGID PVC DUCT
FROM METER BASE TO
TORONTO HYDRO DUCT 1m
FROM POLE 245 SEE NOTE 1.

3(2#6+GRD), 53mm RPVC

Wallace C. Swanek Park

EXISTING WOOD POLE WITH CONTROL
CABINET AND OVERHEAD WIRING FOR
EXISTING PLAYGROUND LIGHTING TO BE
REMOVED AND DISPOSED OF. INCOMING
HYDRO SERVICE TO BE DECOMMISSIONED,
REMOVED AND MAKE SAFE.

2#6+GRD, 53mm RPVC

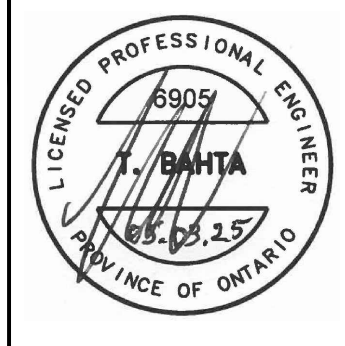
POWER PEDESTAL C/W 15A GFI
RECEPTACLE CIRCUIT A-3
REFER TO DETAIL

EXISTING LIGHT STANDARD WITH
(2) FLOOD LIGHTS TO BE RE-FED
FROM PARK LIGHTING SYSTEM

Wallace C. Swanek Park

ALL DUCTS UNDER PAVED
WALKWAYS TO BE DIRECTIONAL
DRILL (TORPEDO) TO AVOID
DAMAGE TO PATHWAYS (TYP.)

- NOTES:**
1. THE CONTRACTOR TO CONTACT TORONTO HYDRO INSPECTOR MEDHAT @ 416-648-4312 FOR CO-ORDINATION AND FOR INSPECTION OF WORK PRIOR TO BACKFILLING THE TRENCH.
 2. CONTRACTOR TO PROVIDE TREE PROTECTION AS PER CITY OF TORONTO URBAN FORESTRY STANDARD.



1	2025/03/05	ISSUED FOR TENDER
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DRAWN BY: N.V.
CHECKED BY: C.M.

NORTH

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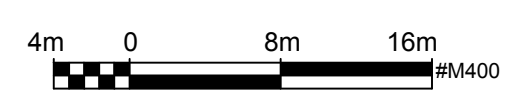
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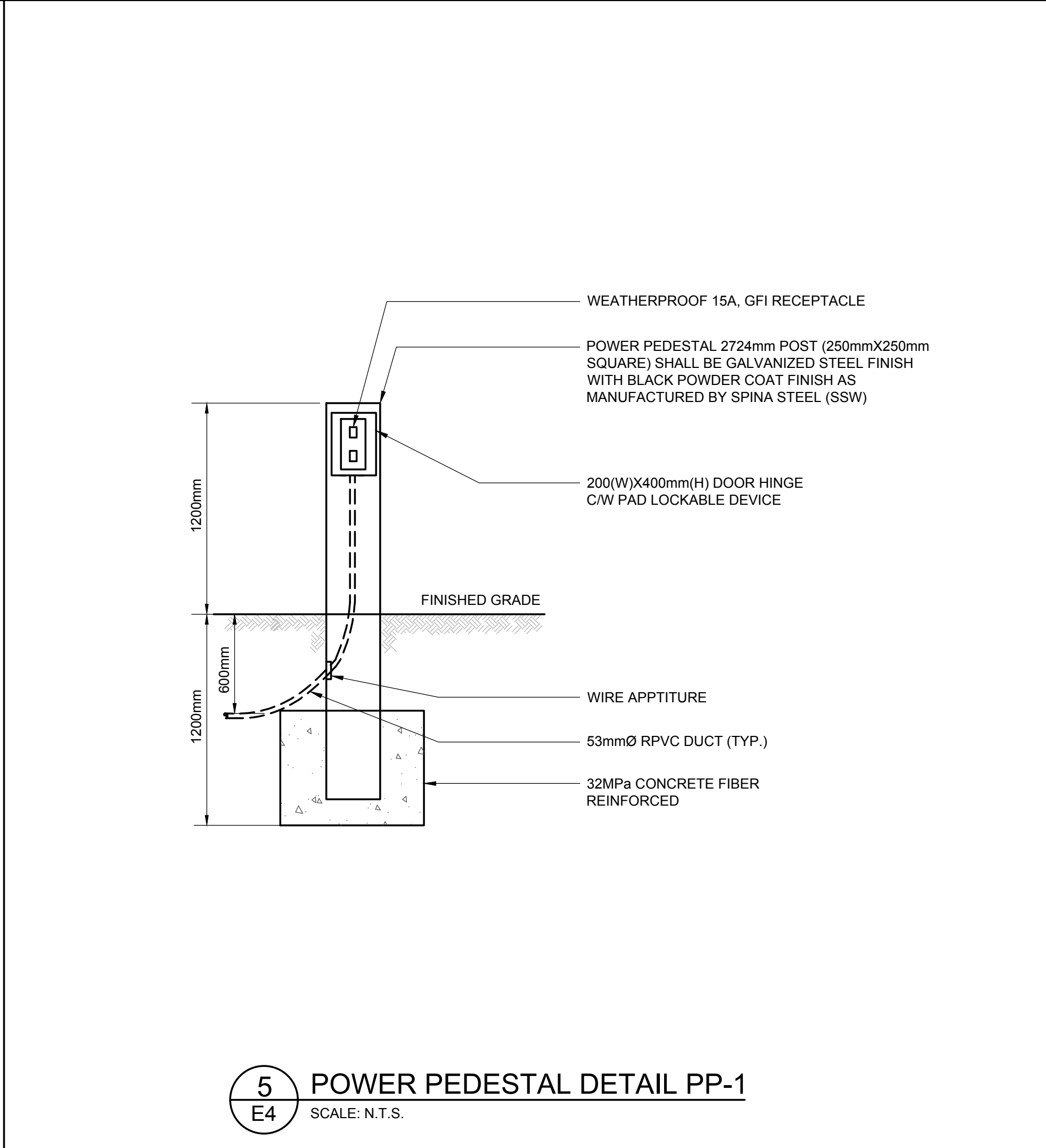
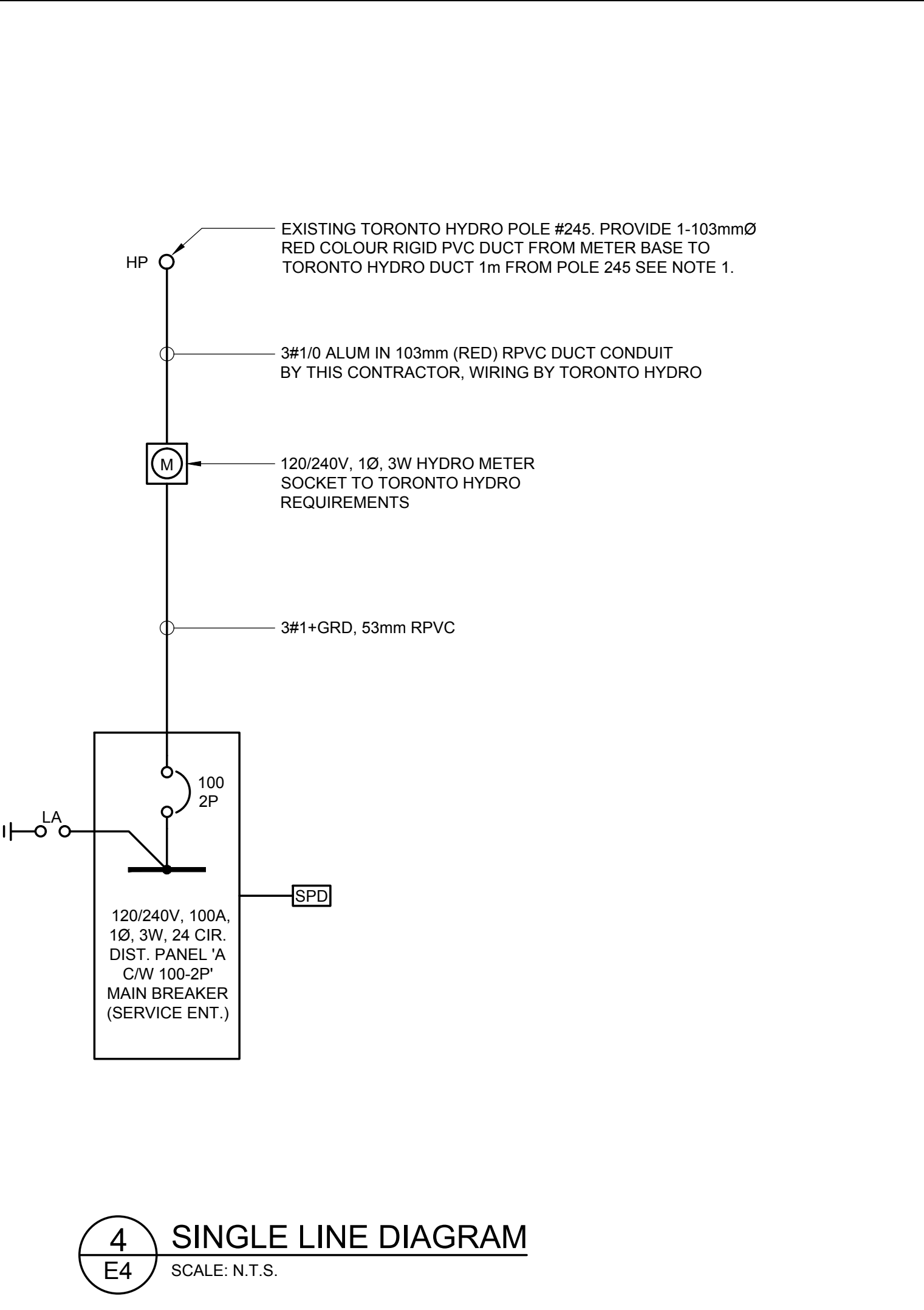
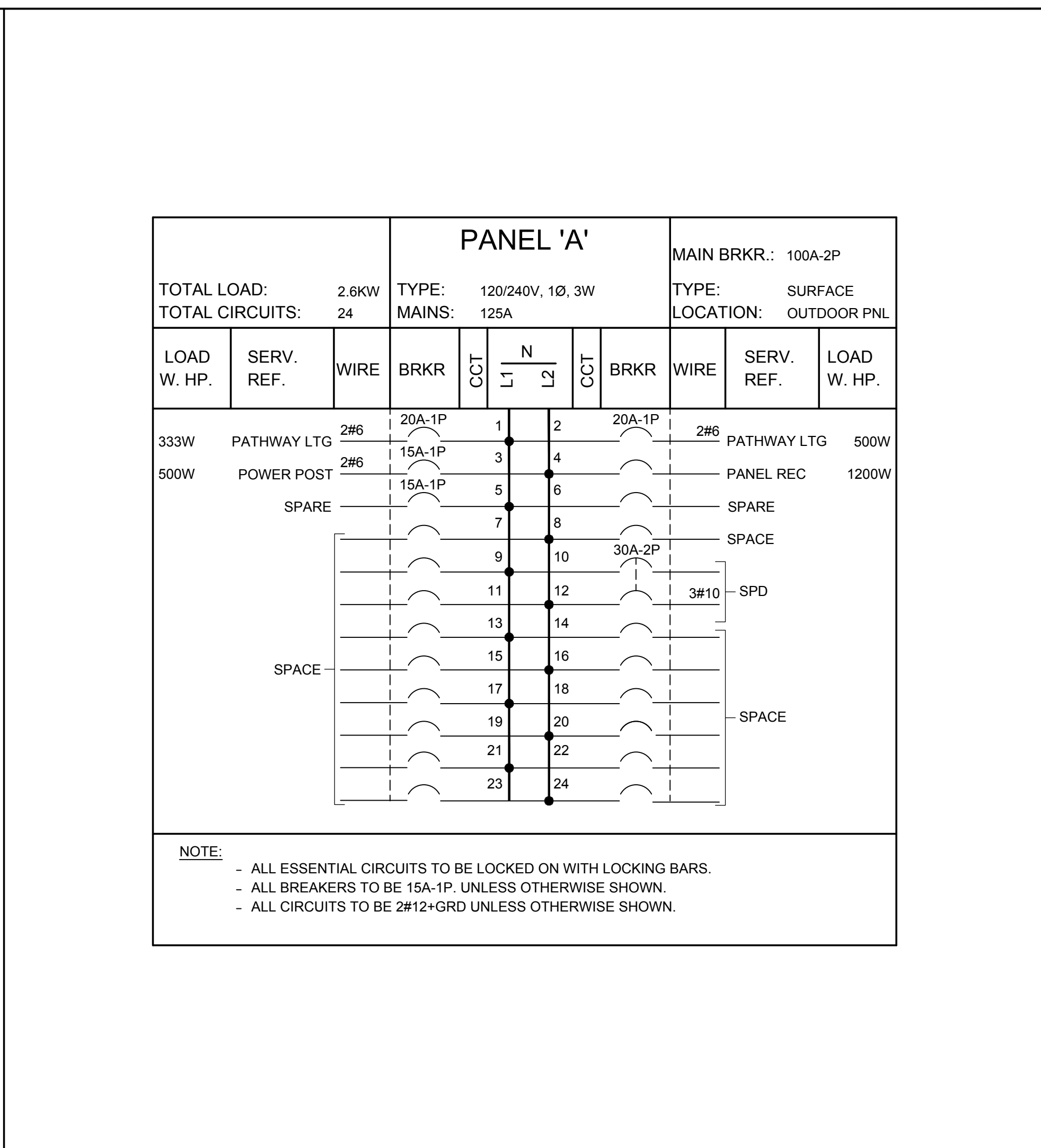
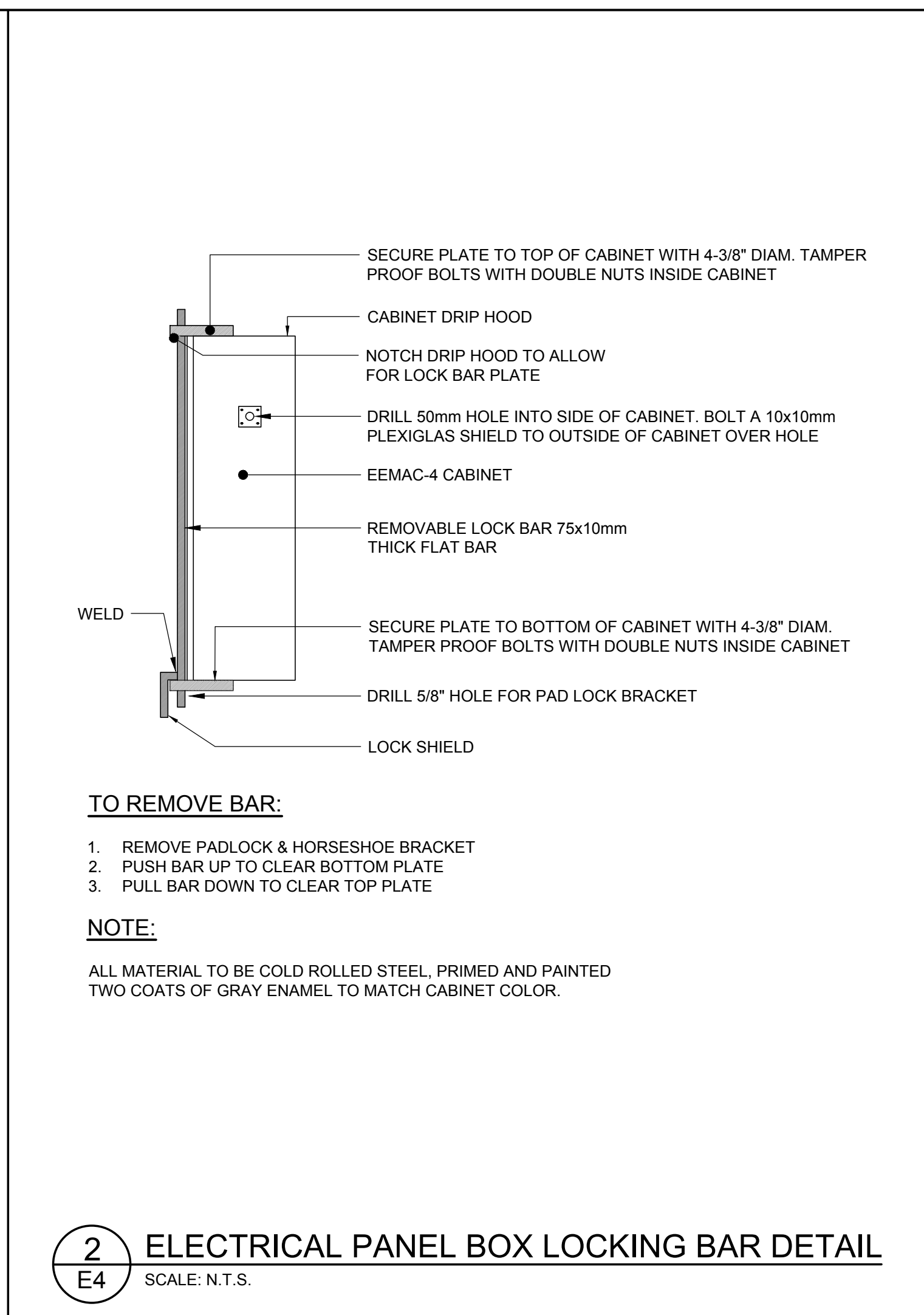
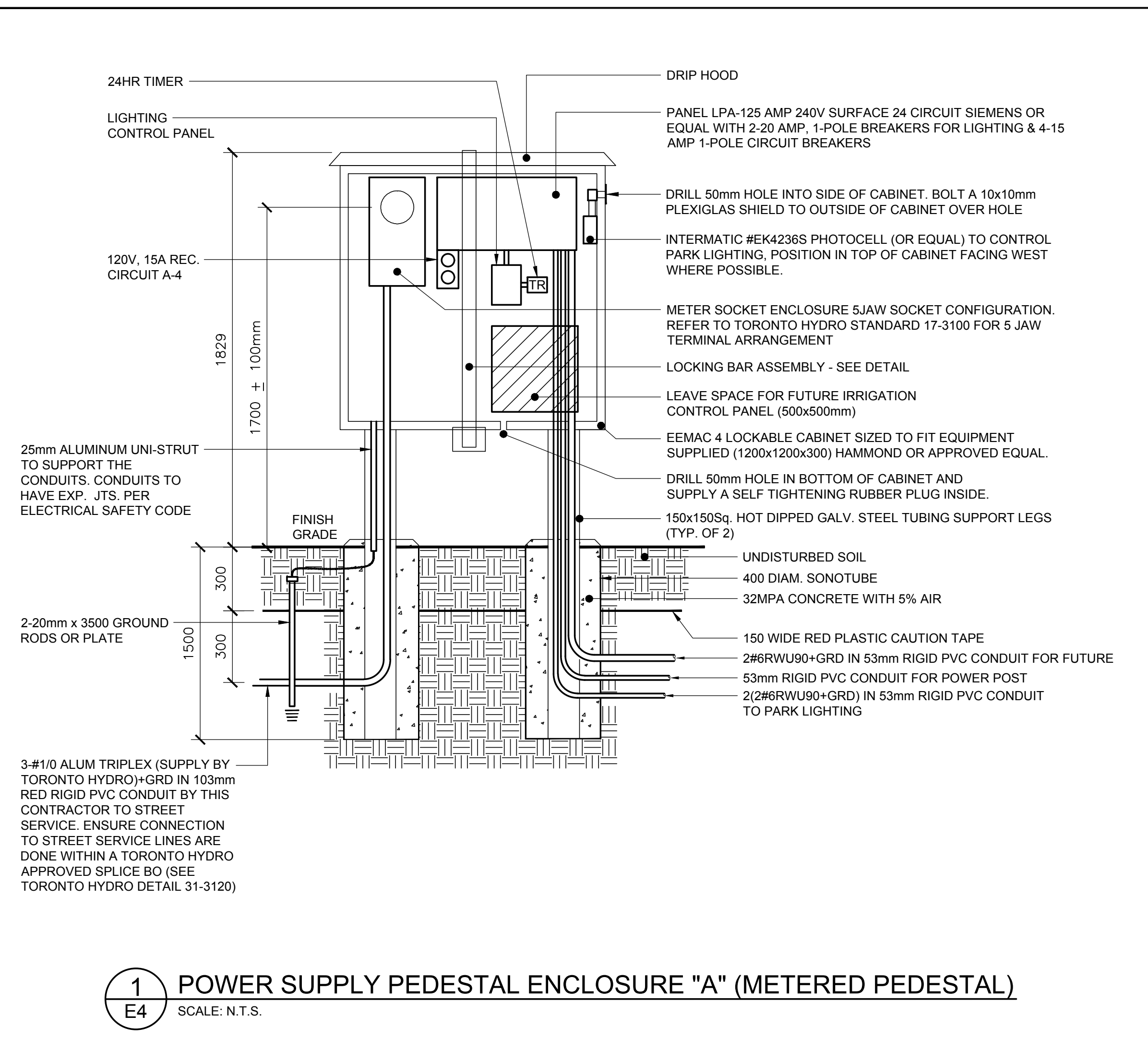
**KF WALLACE
SWANEK PARK
PATHWAY LIGHTING**

LIGHTING PLAN

DATE: APR. 2024	SCALE: AS NOTED
FILE NO.: 6905-E2	DRAWING NO.: E2

2 SITE PLAN
E2 1:400

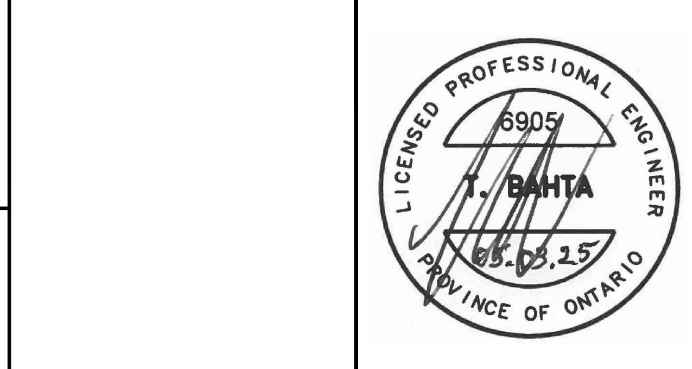




TOTAL LOAD:		TYPE:		MAIN BRKR.:	
2.6KW	24	120/240V, 1Ø, 3W	125A	100A-2P	SURFACE
TOTAL CIRCUITS:		MAINS:		LOCATION:	
24		125A		OUTDOOR PNL	

LOAD W. HP.	SERV. REF.	WIRE	BRKR	CUT	N	CUT	BRKR	WIRE	SERV. REF.	LOAD W. HP.
333W	PATHWAY LTG	2#6	20A-1P	1	2	20A-1P		2#6	PATHWAY LTG	500W
500W	POWER POST	2#6	15A-1P	3	4				PANEL REC	1200W
	SPARE		15A-1P	5	6				SPARE	
				7	8				SPARE	
				9	10	30A-2P				
				11	12				SPD	
				13	14					
	SPACE			15	16					
				17	18					
				19	20				SPACE	
				21	22					
				23	24					

NOTE:
 - ALL ESSENTIAL CIRCUITS TO BE LOCKED ON WITH LOCKING BARS.
 - ALL BREAKERS TO BE 15A-1P, UNLESS OTHERWISE SHOWN.
 - ALL CIRCUITS TO BE 2#12+GRD UNLESS OTHERWISE SHOWN.



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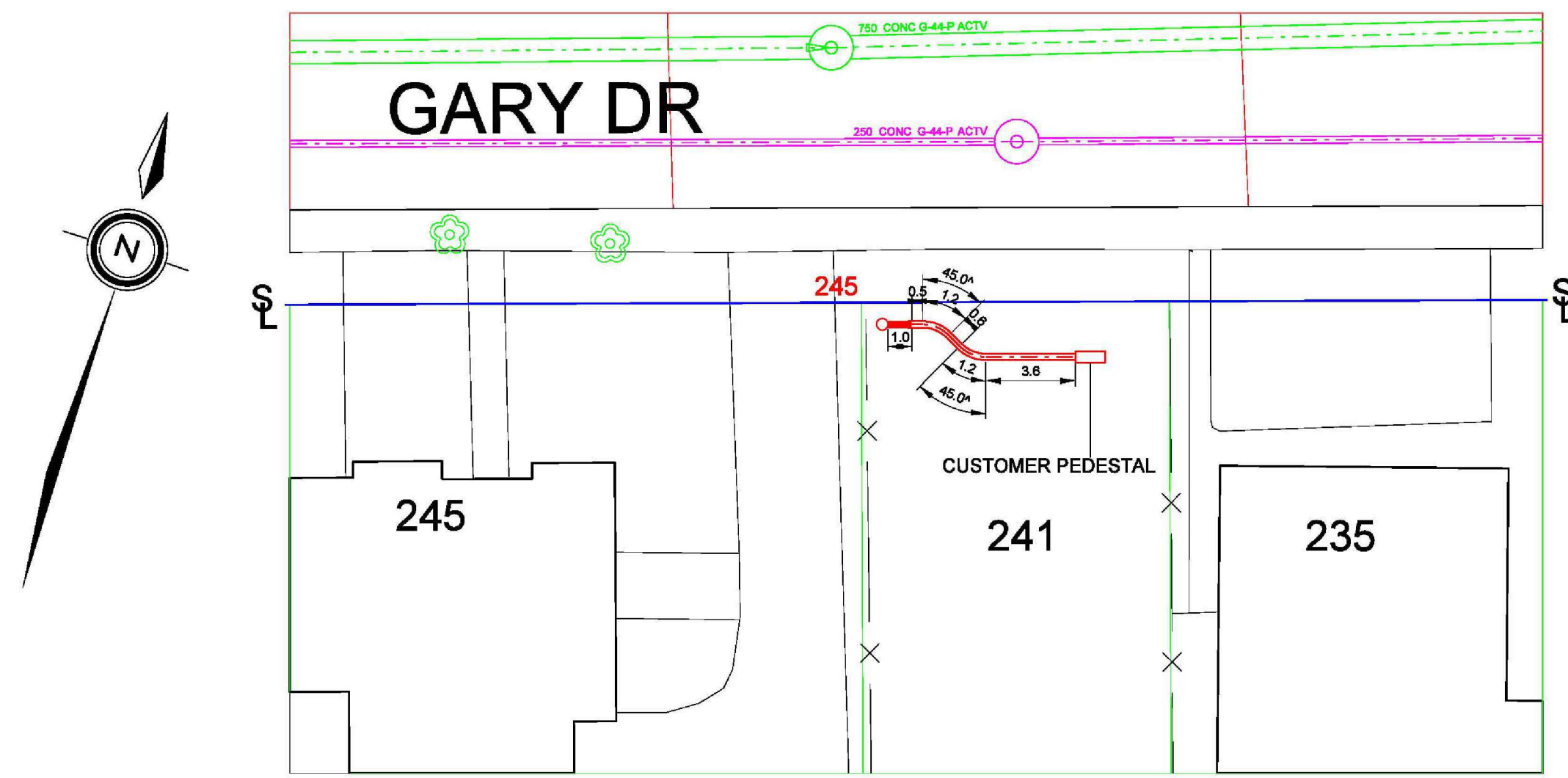
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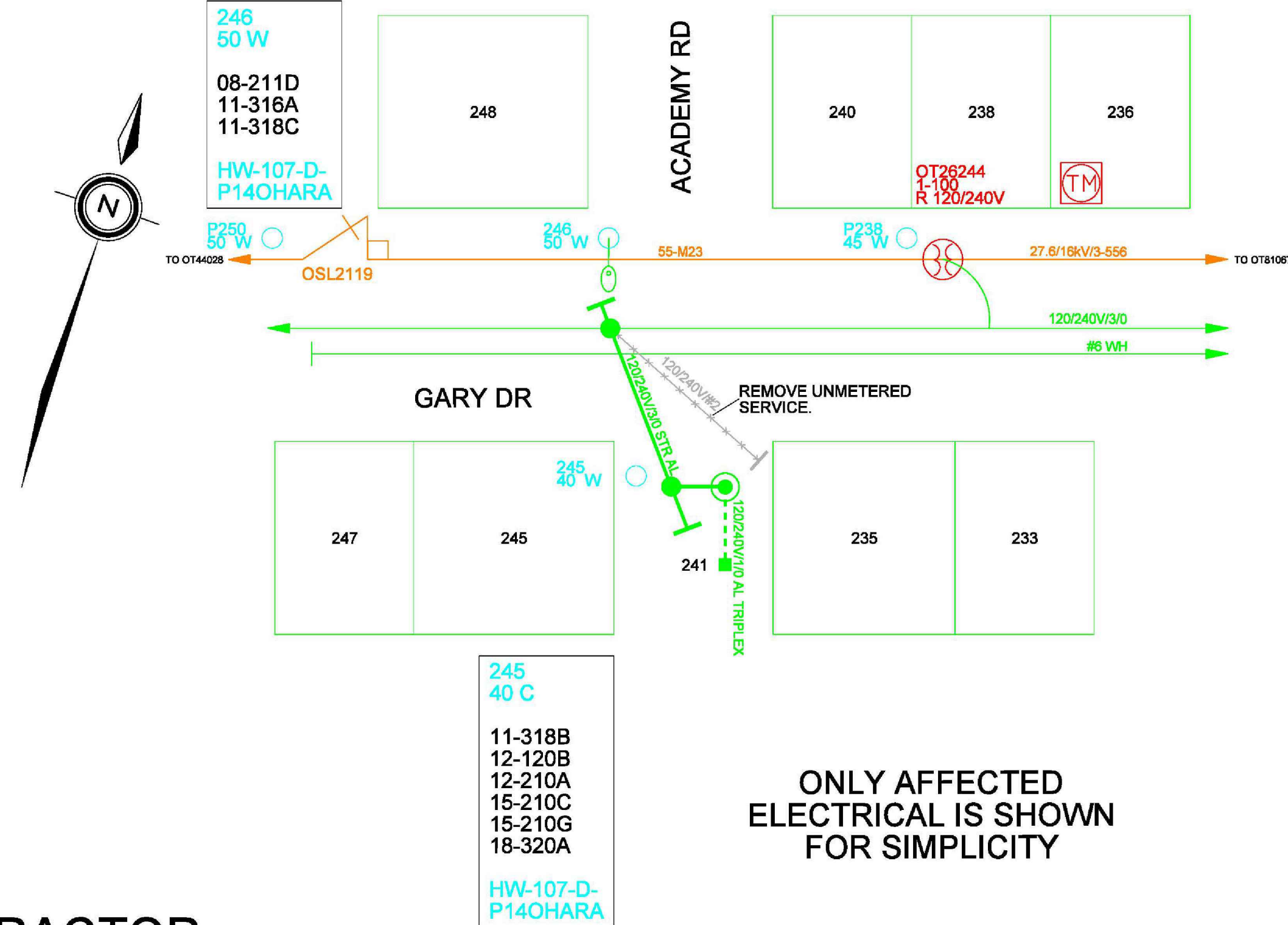
TITLE
KF WALLACE SWANEK PARK PATHWAY LIGHTING
 ELECTRICAL DETAILS

DATE:	SCALE:
APR. 2024	AS NOTED
FILE NO.:	DRAWING NO.:
6905-E4	E4

CIVIL DRAWING 1:200



ELECTRICAL DRAWING N.T.S.



ONLY AFFECTED ELECTRICAL IS SHOWN FOR SIMPLICITY

CONSTRUCTION NOTES

PROVIDE CUSTOMER AT 241 GARY DR WITH A NEW 100A, 120/240V SECONDARY UNDERGROUND SERVICE.

CUSTOMER

- OBTAIN ALL LOCATES AND UTILITY CLEARANCES PRIOR TO THE START OF EXCAVATION.
- CUSTOMER TO INSTALL NEW 1-100MM 1W1H DUCT STRUCTURE (RED RIGID 4" PVC) FROM METER BASE TO TORONTO HYDRO DUCT 1M FROM POLE 245.
- INSTALL NEW CSA APPROVED 200A RATED METER BASE. INSTALL CONDUIT EXPANSION JOINT AND CONCRETE ENCASED BEND PER TORONTO HYDRO STANDARD 31-1250.
- CUSTOMER DUCTS WILL BE CONCRETE ENCASED UNDER VEHICULAR ROADWAYS AND AT ALL 90 DEGREE BENDS AS PER THESEL STANDARD 31-1120.

ALL CIVIL ON PRIVATE PROPERTY IS OWNED AND MAINTAINED BY THE CUSTOMER INCLUDING THE DUCTS

OBTAIN ESA CONNECTION AUTHORIZATION CERTIFICATE PRIOR TO ENERGIZATION

ALL CIVIL INSTALLATIONS TO BE INSPECTED AND PASSED BY CIVIL INSPECTOR MEDHAT SABA @ 416-648-4312 PRIOR TO BACKFILL; 48 HOUR NOTICE REQUIRED

TORONTO HYDRO CONTRACTOR

- OBTAIN ALL NECESSARY CLEARANCES BEFORE EXCAVATION.
- REMOVE SPAN GUY FROM POLE 245 TO POLE 246 SPANNING FROM THE SECONDARY.
- REMOVE UNMETERED SERVICE FROM POLE 246 TO UNMETERED DISCONNECT.
- INSTALL 3/0 AL MULTIPLEXED SECONDARY BUS FROM POLE 245 TO POLE 246 AND CONNECT TO EXISTING SECONDARY BUS. DEAD END AT BOTH POLES.
- SUPPLY AND INSTALL A SECONDARY RISER ON POLE 245 AS PER STANDARD 12-120B.
- SUPPLY AND INSTALL NEW 1W1H CONCRETE ENCASED DUCT STRUCTURE 1 METER FROM POLE 245 TO CUSTOMER DUCT.
- CONCRETE ENCASED DUCT STRUCTURE TO BE INSTALLED AS PER TORONTO HYDRO STANDARDS 31-0100, 31-1100, 31-1120, 31-1130, & 31-1150.
- SUPPLY AND INSTALL NEW TRIPLEX 1/0 AL UNDERGROUND SECONDARY CABLE FROM POLE 245 TO CUSTOMER METER BASE.
- COMPLETE ALL SECONDARY TERMINATIONS AND CONNECTIONS AS SHOWN ACCORDING TO TORONTO HYDRO STANDARDS.
- ENERGIZE CUSTOMER UPON RECEIVING ESA AUTHORIZATION TO CONNECT
- PERMANENT RESTORATIONS TO BE IN ACCORDANCE WITH CITY OF TORONTO CONSTRUCTION SPECIFICATIONS FOR UTILITY AND CUT RESTORATION.

FEEDER: 55-M23

FIELD VALIDATION

Conceptual Primary Schematic

Preliminary Primary Schematic

SIGN-OFF

Supervisor: Bianca Lio (Print Name & Signature)

Planner/Designer: Bianca Lio (Print Name & Signature)

AS CONSTRUCTED

ELECTRICAL CIVIL

WITH CHANGES AS SHOWN ON THIS DRAWING.

Municipality: ET EY NY YK TO SC

Date: _____

Marked By: _____

Approved by Toronto Hydro: _____

CONTRACTOR: _____

COMPANY NAME: _____

This is to certify that the construction as recorded in this drawing is consistent with the approved plan, Standard Designs, or work instruction and that approved equipment has been used

CUT PERMIT INFORMATION

THESL APPLICATION #	PERMIT #	FROM	TO	STREET
THA-S-2024-03042	1001357001	19/11/2024	19/05/2025	GARY

THIS WORK INSTRUCTION HAS BEEN ASSEMBLED UTILIZING ONLY CERTIFIED CONSTRUCTION STANDARDS, SPECIFICATIONS AND APPROVED EQUIPMENT AND MEETS THE SAFETY REQUIREMENTS OF SECTION 4 OF ONTARIO REGULATION 2204.

CABLE PULLING SCHEDULE

LOCATION	CABLE DESIGNATION	CABLE DESCRIPTION	APPROX LENGTH	X	NO OF RUNS	TOTAL LENGTH	METHOD OF PULL	MAX TENSION	CALCULATED FWD TENSION	CALCULATED REV TENSION	COEFFICIENT OF FRICTION	PULLED BY
POLE 245 TO CUSTOMER	SECONDARY	1/0 AL TRIPLEX 600V	14	X	1	14 m	GRIP	817 kg	753 kg	757 kg	0.6	ENTERA

* WHERE A COEFFICIENT OF FRICTION LESS THAN 0.5 IS USED, ENSURE THAT THE ENTIRE LENGTH OF CABLE IS WELL LUBRICATED DURING THE PULL



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CHECKED BY: C.M.

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TITLE: **KF WALLACE SWANEK PARK PATHWAY LIGHTING TORONTO HYDRO DETAILS**

DATE: APR. 2024	SCALE: AS NOTED
FILE NO.: 6905-E5	DRAWING NO.: E5