

















ELECTRICAL SYMBOLS	
	120V, 1–PHASE CONNECTION
	208V, 1–PHASE MOTOR
	208V, 3–PHASE MOTOR
	15A, 120V DUPLEX RECEPTACLE
	MANUAL LIGHT WALL SWITCH
	PANELBOARD
	TRANSFORMER
	DISCONNECT SWITCH
	CIRCUIT BREAKER
	BC HYDRO METER
	JUNCTION BOX
	SCALE WEIGH INDICATOR
	TRAFFIC LIGHT SYSTEM
	TRAFFIC CONTROLLER
	SCALE LICENSE PLATE CAMERA
	NETWORK VIDEO RECORDER

ABBREVIATIONS (USE AS APPLICABLE)	
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
AWG	AMERICAN WIRE GAUGE
BKR	BREAKER
C	CONDUIT
CCT	CIRCUIT
CEC	CANADIAN ELECTRICAL CODE
CFM	CUBIC FOOT PER MINUTE
CLG	CEILING
COMM	COMMUNICATIONS
C/W	COMPLETE WITH
CU	COPPER
EC	ELECTRICAL CONTRACTOR
EM	EMERGENCY POWER
FHP	FRACTIONAL HORSEPOWER
GC	GENERAL CONTRACTOR
GND	GROUND
JB	JUNCTION BOX
LV	LOW VOLTAGE
NTS	NOT TO SCALE
PH (ϕ)	PHASE
TBC	TO BE CONFIRMED
TBD	TO BE DETERMINED
U/G	UNDERGROUND
VFD	VARIABLE FREQUENCY DRIVE
WP	WEATHERPROOF

ENERGY STATEMENT: ELECTRICAL POWER, LIGHTING, OTHER EQUIPMENT DESIGN (ENERGY)	
CANADIAN ELECTRICAL CODE:	2021
BC BUILDING CODE:	2018
ELECTRICAL DESIGN	
ENERGY STANDARD/CODE:	ASHRAE 90.1–2016
POWER COMPLIANCE PATH:	PRESCRIPTIVE
IN ACCORDANCE WITH:	8.1.5 ALT'S TO EXTG BLDG
OTHER EQUIPMENT PATH:	PRESCRIPTIVE
IN ACCORDANCE WITH:	N/A

LOAD SUMMARY – WHISTLER TRANSFER STATION					
LOCATION NAME:	WHISTLER TRANSFER STATION				
DESIGN LOAD DATA – MAIN BUILDING					
	VOLTAGE	AMPS	WATTS (3ϕ)	DEMAND FACTOR	WATTS (3ϕ)
MAXIMUM BC HYDRO SUPPLY (@ 208V/3ϕ)	600V	800A	831,360W	0.8	665,088W
PEAK DEMAND	FROM SEPTEMBER 29, 2021 TO OCTOBER 18, 2021				496,000W
REMAINING AVAILABLE SITE CAPACITY					169,088W
MAIN DISTRIBUTION – NEW LOADS TO BE INSTALLED			WATTS	DEMAND FACTOR	WATTS
	NEW WEIGHT SCALE AND EQUIPMENT		1,152W	1.0	1,152W
	NEW SCALE HOUSE MECHANICAL (HVAC & PLUMBING) LOADS		4,950W	1.0	4,950W
	NEW SCALE HOUSE OFFICE GENERAL LOADS		288W	1.0	288W
TOTAL LOADS					6,390W

SITE INFORMATION
ADDRESS: 90 BRANDYWINE FOREST SERVICE ROAD, WHISTLER, BC, V0N 1B1


PROJECT ELECTRICAL SCOPES OF WORK:

- SUPPLY AND INSTALL ALL FEEDERS, CONDUITS, CIRCUIT BREAKERS, DISCONNECT SWITCHES, JUNCTION BOXES, AND REQUIRED MATERIALS FOR ELECTRICAL EQUIPMENT TO MEET THE INTENT SHOWN ON DRAWINGS AND SPECIFICATIONS.
- COORDINATE FINAL POWER CONNECTIONS TO NEW SCALE AND SCALE TERMINAL WITH GENERAL CONTRACTOR AND AS PER MANUFACTURER INSTRUCTIONS, INCLUDING GROUNDING.
- INCLUDE FOR TRENCHING AND BACKFILLING FOR UNDERGROUND CONDUITS TO MEET THE INTENT. COORDINATE WITH CIVIL CONTRACTOR ON SITE FOR ROUTING.
- SUPPLY AND INSTALL NEW GROUNDING AND BONDING SYSTEMS AS PER CEC SECTION 10. INCLUDE FOR ALL WIRES, ELECTRODES, AND MATERIALS REQUIRED TO INSTALL A COMPLETE GROUNDING AND BONDING SYSTEM.
- COORDINATE FINAL MOUNTING LOCATION OF NEW ELECTRICAL EQUIPMENT ON SITE WITH GENERAL CONTRACTOR.


PROJECT GENERAL NOTES:

- CONTRACTOR SHALL PROVIDE ALL MATERIALS, MANPOWER, LIFTING DEVICES, TRANSPORTATION, SCANNING AND CORING, AND OTHER ANCILLARIES TO COMPLETE JOB SCOPES AS DEFINED IN THIS DRAWING PACKAGE AND PROJECT SPECIFICATIONS.
- ELECTRICAL DRAWINGS INDICATE GENERAL LOCATION AND ROUTE TO BE FOLLOWED BY CONDUITS AND/OR WIRE AND DO NOT SHOW ALL STRUCTURAL AND MECHANICAL DETAILS. IN SOME CASES, CONDUIT OR WIRING IS NOT SHOWN ON THE PLANS OR IS SHOWN DIAGRAMMATICALLY IN SCHEMATIC OR RISER DIAGRAMS. CONDUIT AND WIRE SHALL BE INSTALLED TO PROVIDE A COMPLETE OPERATING SYSTEM.
- IN ORDER TO PROVIDE SUFFICIENT DETAIL AND MAXIMUM DEGREE OF CLARITY ON DRAWINGS, SYMBOLS USED FOR VARIOUS ELECTRICAL DEVICES, PARTICULARLY WALL MOUNTED DEVICES, TAKE UP MORE SPACE ON THE DRAWINGS THAN THE DEVICE DOES ON THE WALL. IN THESE INSTANCES, LOCATE DEVICE ON WALL WITH PRIMARY REGARD FOR CONVENIENCE OF OPERATION AND USAGE OF WALL SPACE, RATHER THAN PLACING DEVICES OUT ALONG WALL SO AS TO COMPLY WITH SCALE LOCATIONS OF ELECTRICAL SYMBOLS.
- ALL EQUIPMENT AND DEVICES SHALL BE CONTRACTOR SUPPLIED AND INSTALLED UNLESS EXPLICITLY STATED OTHERWISE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH FACILITY AND VENDORS FOR THE STORAGE OF PROCURED MATERIALS AND EQUIPMENT PRIOR TO DELIVERY. CONTRACTOR SHALL BE RESPONSIBLE FOR STORING PROCURED MATERIALS AND EQUIPMENT.
- ALL NEW ELECTRICAL WORKS SHALL COMPLY WITH REQUIREMENTS FROM MOST UP TO DATE CANADIAN ELECTRICAL CODE (CEC) AND BC BUILDING CODE.
- ALL NEW ELECTRICAL EQUIPMENT, DEVICES, RACEWAY, AND WIRING SHALL BE cETL, BTL, CSA, AND/OR UL/C LISTED.
- ALTERNATIVE MANUFACTURER EQUIPMENT OR DEVICES MUST BE APPROVED BY OWNER AND CONSULTANT DURING THE TENDER BID PROCESS AND PRIOR TO PROCUREMENT. CONTRACTOR IS RESPONSIBLE TO IDENTIFY COMPLIANCE TO ORIGINALLY SPECIFIED EQUIPMENT OR DEVICES WHEN PRESENTING ALTERNATIVE.
- REPLACEMENT OF ANY ELECTRICAL EQUIPMENT EXPECTED TO CAUSE DISRUPTION OF OPERATION SCHEDULE MUST BE COORDINATED WITH FACILITY MANAGEMENT PRIOR TO THE WORK. ALL LOADS TO BE IDENTIFIED PRIOR POWER TO DISRUPTION AND TEMPORARY POWER TO IDENTIFIED LOADS SHALL BE PROVIDED IF NECESSARY AND/OR REQUIRED BY THE CLIENT.
- ALL SYSTEM COMPARTMENTS OF DECOMMISSIONED SYSTEM SHALL BE DEMOLISHED AND CLEANED UP UNLESS SPECIFIED OTHERWISE OR DIRECTED BY THE OWNER.
- CONTRACTOR SHALL SAFEGUARD ALL EXISTING UTILITIES, ELECTRICAL EQUIPMENT, AND ALL OTHER SYSTEMS DURING CONSTRUCTION.
- ALL NEWLY INSTALLED EQUIPMENT AND DEVICES SHALL BE CLEARLY LABELED INDICATING NAME OF EQUIPMENT/DEVICE AND CONNECTED SYSTEM INFORMATION.
- CONTRACTOR SHALL ENSURE SAFE LOCKOUT PROCEDURE WHEN ISOLATING ELECTRICAL CONNECTION. ALL EXISTING CONDITIONS FOUND WITHIN THE AREAS OF SCOPES TO BE INCOMPLIANT WITH MOST UP TO DATE CEC REGULATIONS SHALL BE REPORTED TO CONSULTANT IMMEDIATELY AND THEN CORRECTED.
- CONTRACTOR SHALL VERIFY ALL MEASUREMENTS ON SITE AGAINST THE DIMENSIONS LISTED ON THE SHOP DRAWINGS.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE AND INSTALL SEISMIC SUPPORT FOR ALL NEWLY INSTALL _ED EQUIPMENT AND DEVICES. CONTRACTOR SHALL SUBMIT RP–B, RP–CB, AND LETTERS OF ASSURANCE PROVIDED FROM CONTRACTOR’S SEISMIC ENGINEER PRIOR TO FINAL INSPECTION.
- CONTRACTOR SHALL PROVIDE AND INSTALL NEWLY PRINTED PANEL DIRECTORY SCHEDULES FOR ALL NEW PANELBOARDS.
- CONTRACTOR SHALL PROVIDE AND INSTALL LAMACOID LABEL FOR NEWLY INSTALLED EQUIPMENT AND DEVICES.
- CONTRACTOR TO PROVIDE TEMPORARY CONNECTIONS BETWEEN NEW SCALE HOUSE AND OWNER SUPPLIED 40KVA GENERATOR INTENDED TO PROVIDE TEMPORARY POWER TO MAINTAIN FACILITY OPERATIONS DURING CONSTRUCTION. CONTRACTOR RESPONSIBLE TO SCHEDULE WORK TO MINIMIZE THE USE OF TEMPORARY POWER. CONTRACTOR RESPONSIBLE TO PROVIDE TEMPORARY GENERATOR FOR CONSTRUCTION AS NEEDED.

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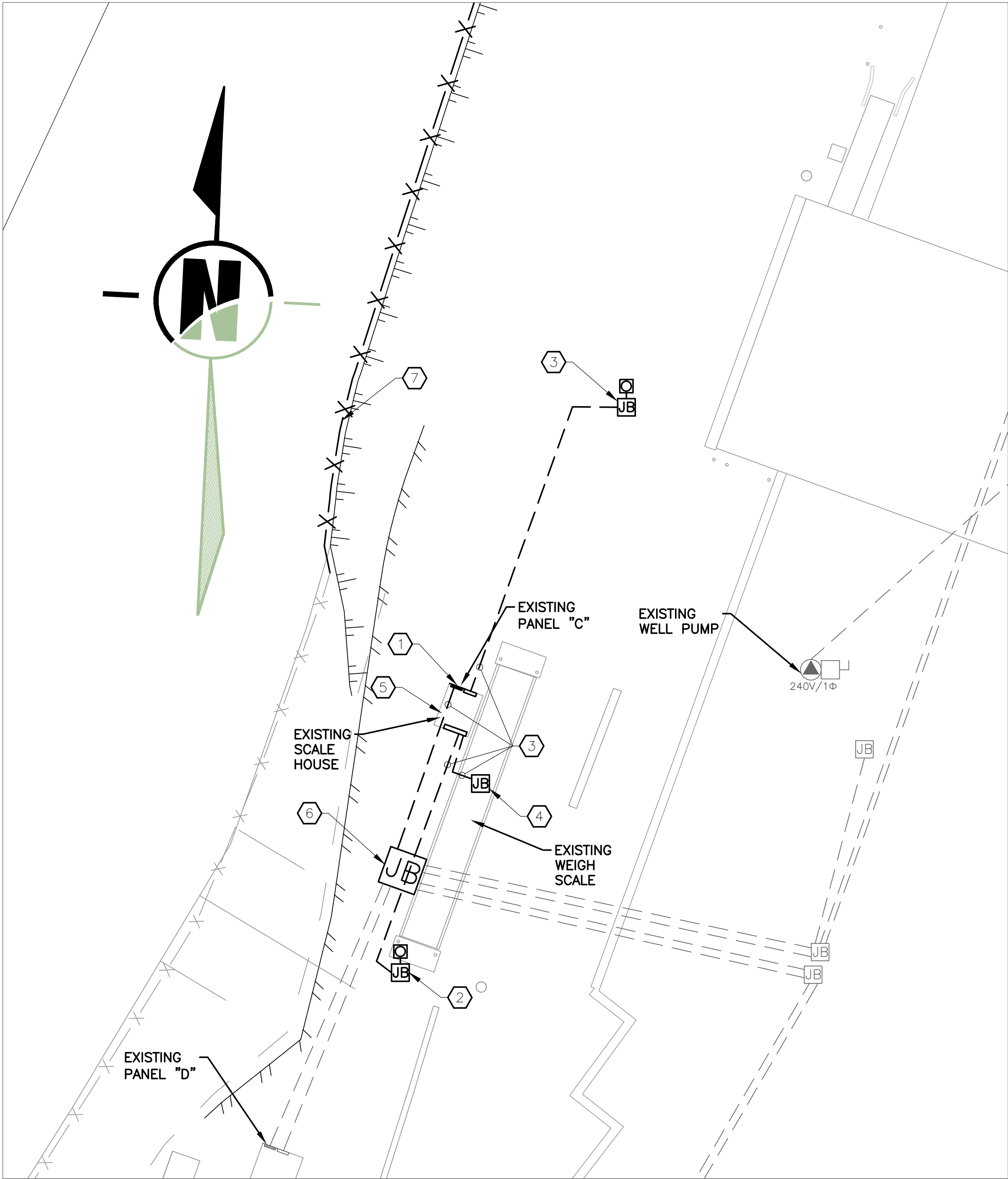
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Unit 310, 4321 Still Creek Drive
Burnaby, British Columbia V5C 6S7
Tel: 604-454-0402 Fax: 604-454-0403

PROJECT			
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ELECTRICAL COVER PAGE			
DESIGN	MG	DATE	SCALE
		MAR 2023	
DRAWN	MG	PROJECT NO.	
		220308400	
CHECKED	MC	DRAWING NO.	VERSION
APPROVED		E01	6



1 ELECTRICAL DEMOLITION PLAN NTS

KEYNOTES

- 1 EXISTING PANEL "C" TO BE DEMOLISHED.
- 2 EXISTING TRAFFIC LIGHT SYSTEMS, ASSOCIATED JUNCTION BOXES, AND TRAFFIC LIGHT CONTROLS TO BE DEMOLISHED.
- 3 EXISTING CONDUIT TO BE DEMOLISHED.
- 4 EXISTING WEIGH SCALE JUNCTION BOX AND CONNECTED CONDUIT TO BE DEMOLISHED WITH SCALE.
- 5 ALL ELECTRICAL COMPONENTS IN EXISTING OFFICE SCALE HOUSE TO BE DEMOLISHED INCLUDING LIGHTING, CONTROLS, FIRE ALARM, CONDUIT, AND ELECTRICAL HVAC.
- 6 EXISTING WALL MOUNTED JUNCTION BOX TO BE REPLACED WITH UNDERGROUND JUNCTION BOX.
- 7 EXISTING ELECTRIC FENCE TO BE DEMOLISHED.

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K. J. PEARSON
35808
2023-08-31

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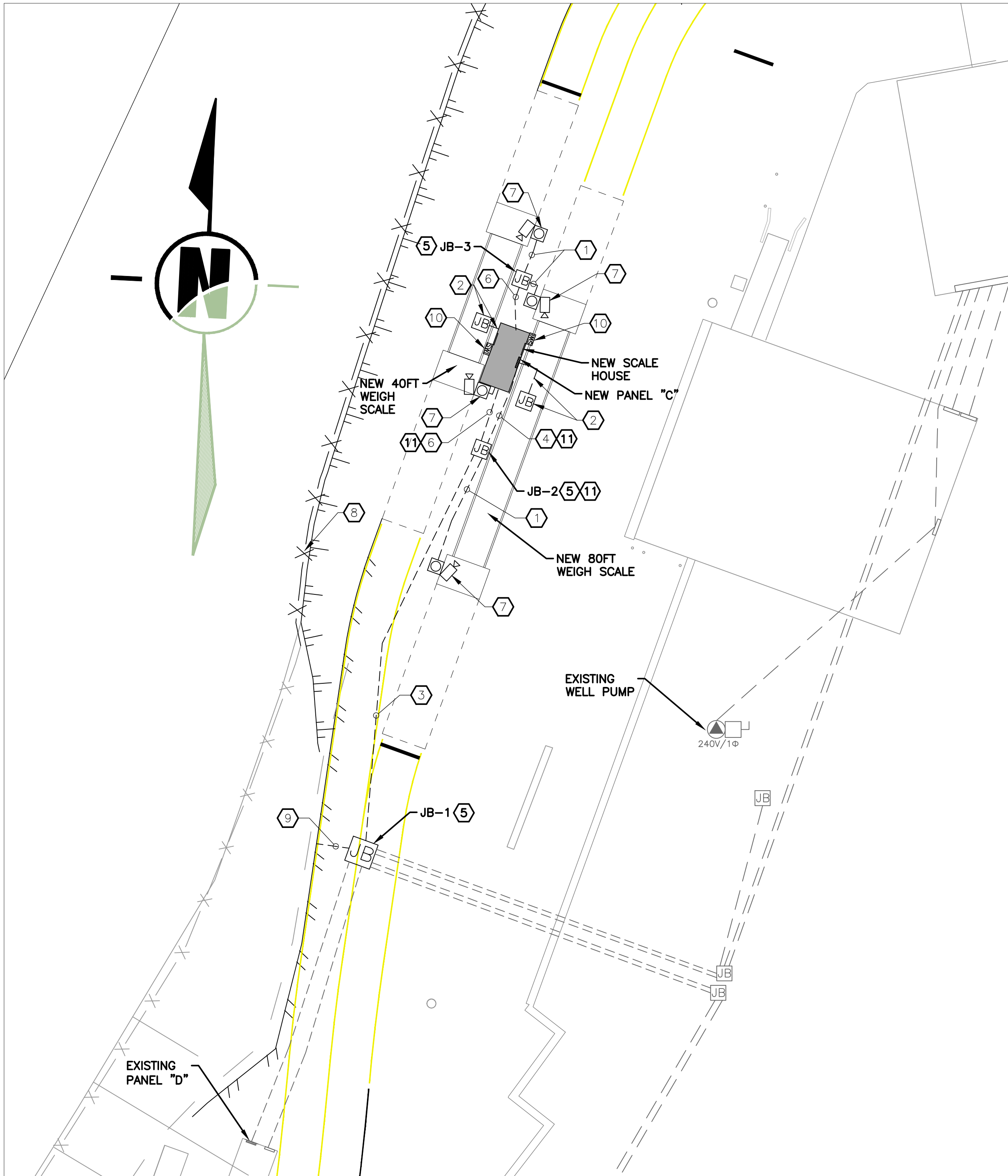
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ELECTRICAL WORK PLAN

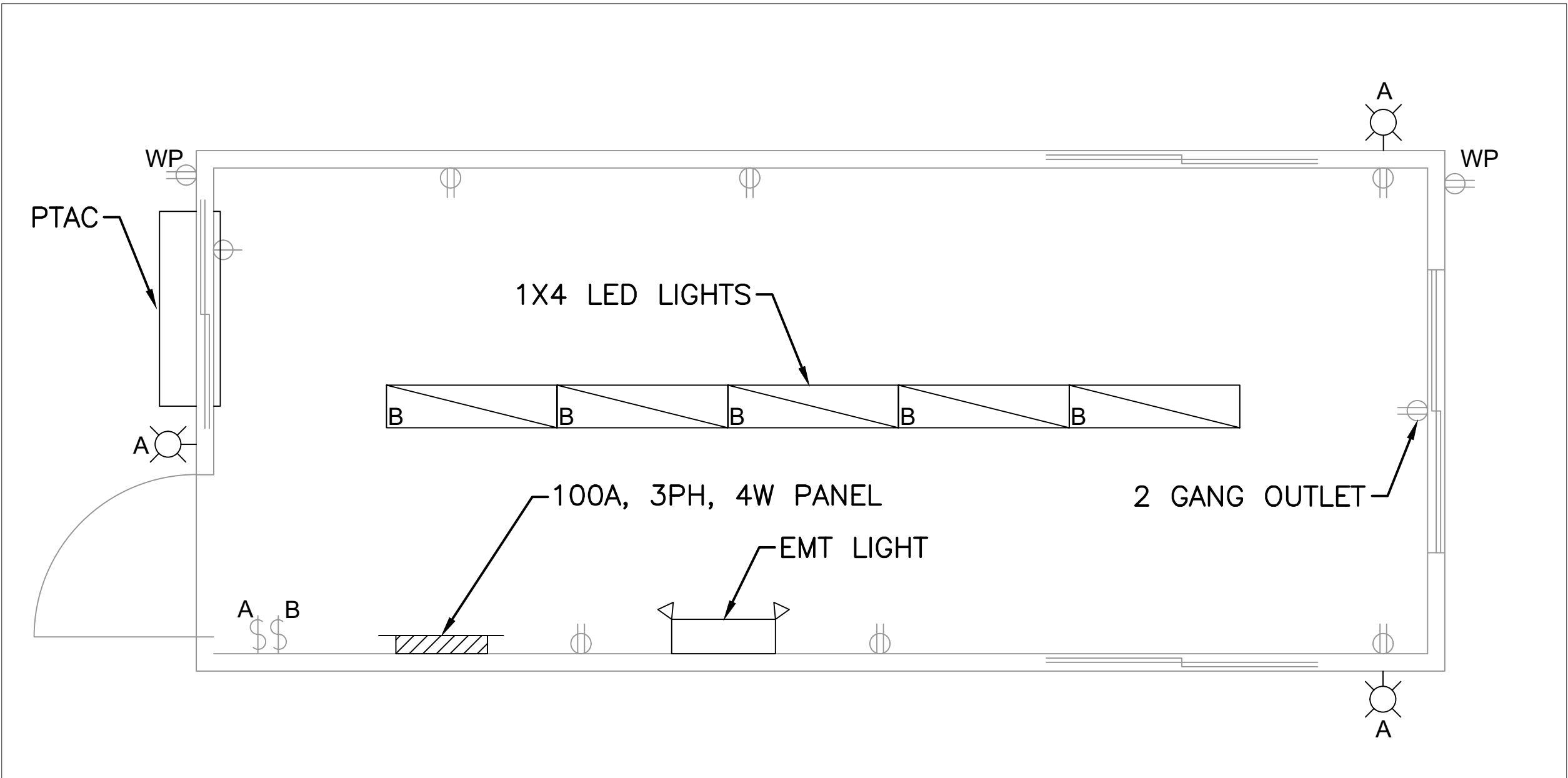
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1 ELECTRICAL CONSTRUCTION PLAN NTS

KEYNOTES

- 1 INCLUDE FOR THE SUPPLY AND INSTALL OF TWO (2) NEW 53mm (2") RPVC CONDUITS ROUTED FROM JB-2 AND JB-3 TO TRAFFIC LIGHT AND CAMERA SYSTEM, BURIED 900mm BELOW THE FINISHED GRADE. CONTRACTOR TO INSTALL FEEDERS FOR POWER TO TRAFFIC LIGHTS. COMMUNICATION AND CONTROLS WIRING SUPPLIED AND INSTALLED BY VENDOR.
- 2 WATERPROOF PVC JUNCTION BOX WITH LOAD CELL SUMMATION BOARD INCLUDED WITH WEIGH SCALE. JUNCTION BOX, CONDUITS, AND COMMUNICATIONS WIRING SUPPLIED AND INSTALLED BY WEIGH SCALE VENDOR.
- 3 INCLUDE FOR THE SUPPLY AND INSTALL OF NEW 110mm (4") RPVC CONDUIT ROUTED FROM NEW JB-2 TO NEW JB-1. BURY CONDUIT 900mm BELOW FINISHED GRADE. INSTALL NEW 3C#6 AWG FEEDER FOR POWER TO NEW PANEL "C".
- 4 INCLUDE FOR THE SUPPLY AND INSTALL OF NEW 110mm (4") RPVC CONDUIT ROUTED FROM JB-2 TO NEW PANEL "C". BURY CONDUIT 900mm BELOW GRADE. INSTALL FEEDER FOR POWER TO NEW PANEL "C" SIZED AS INDICATED IN EQUIPMENT SCHEDULE.
- 5 INCLUDE FOR THE SUPPLY AND INSTALL OF NEW PVC JUNCTION BOX BURIED 900mm BELOW GRADE.
- 6 INCLUDE FOR THE SUPPLY AND INSTALL OF TWO (2) 53mm (2") RPVC CONDUITS ROUTED UNDER GROUND FROM THE SCALE OFFICE HOUSE TO BOTH JB-2 AND JB-3, BURIED 900mm BELOW THE FINISHED GRADE. INSTALL NEW FEEDERS FOR POWER TO EACH TRAFFIC LIGHT SYSTEM IN CONDUIT AND SIZED AS INDICATED IN EQUIPMENT SCHEDULE. VENDOR TO SUPPLY AND INSTALL CONTROL AND COMMUNICATIONS CABLES IN CONDUIT AS INDICATED IN EQUIPMENT SCHEDULE.
- 7 POLE MOUNTED TRAFFIC LIGHT SYSTEM AND LICENSE PLATE CAMERA. SUPPLIED AND INSTALLED BY VENDOR. CONTRACTOR TO INCLUDE FOR THE SUPPLY AND INSTALL OF MOUNTING POLE FOUNDATION.
- 8 INCLUDE FOR THE SUPPLY AND INSTALL OF NEW ELECTRIC FENCE AND ASSOCIATED CONDUIT AND FEEDERS. ROUTING OF CONDUIT AND CONNECTIONS TO BE COORDINATED ON SITE. CONTRACTOR TO REPLACE LIKE-FOR-LIKE ON THE NEW FENCE.
- 9 CONTRACTOR TO INCLUDE FOR THE SUPPLY AND INSTALL OF 53MM (2") STUB-OUT CONDUIT EXTENDING TO THE EDGE OF THE ASPHALT, WEST OF JB-1.
- 10 EXTERIOR SCALE WEIGHT DISPLAYS MOUNTED ON SCALE HOUSE, RIGHT OF WINDOW.
- 11 COORDINATE WITH WITH SCALE HOUSE VENDOR TO ENSURE UNDERGROUND CONDUIT AND JUNCTION BOX PLACEMENT DO NOT CONFLICT WITH POST BASES OF STAIRCASE.



2 OFFICE SCALE HOUSE ELECTRICAL LAYOUT NTS

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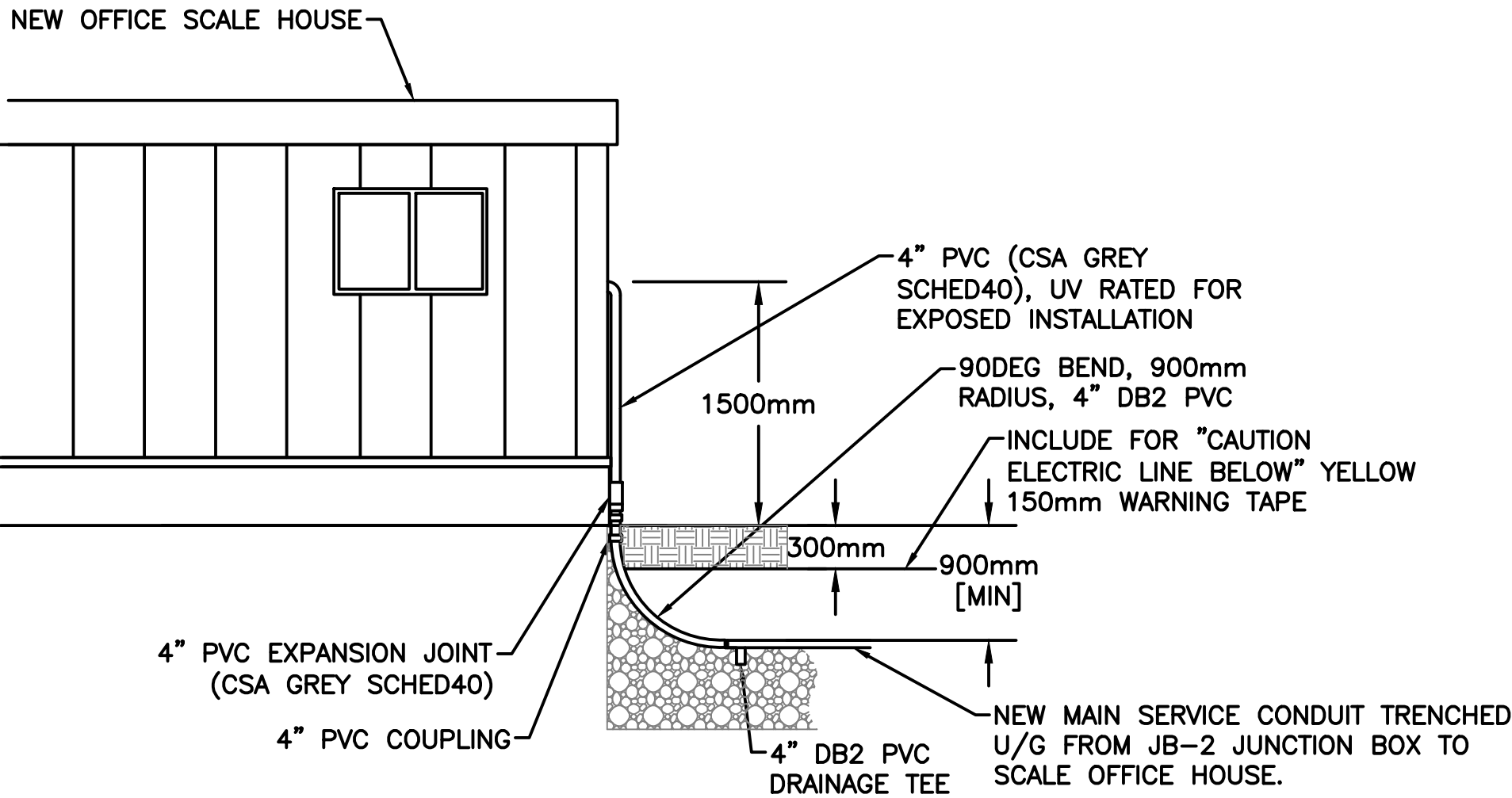
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ELECTRICAL CONSTRUCTION PLAN

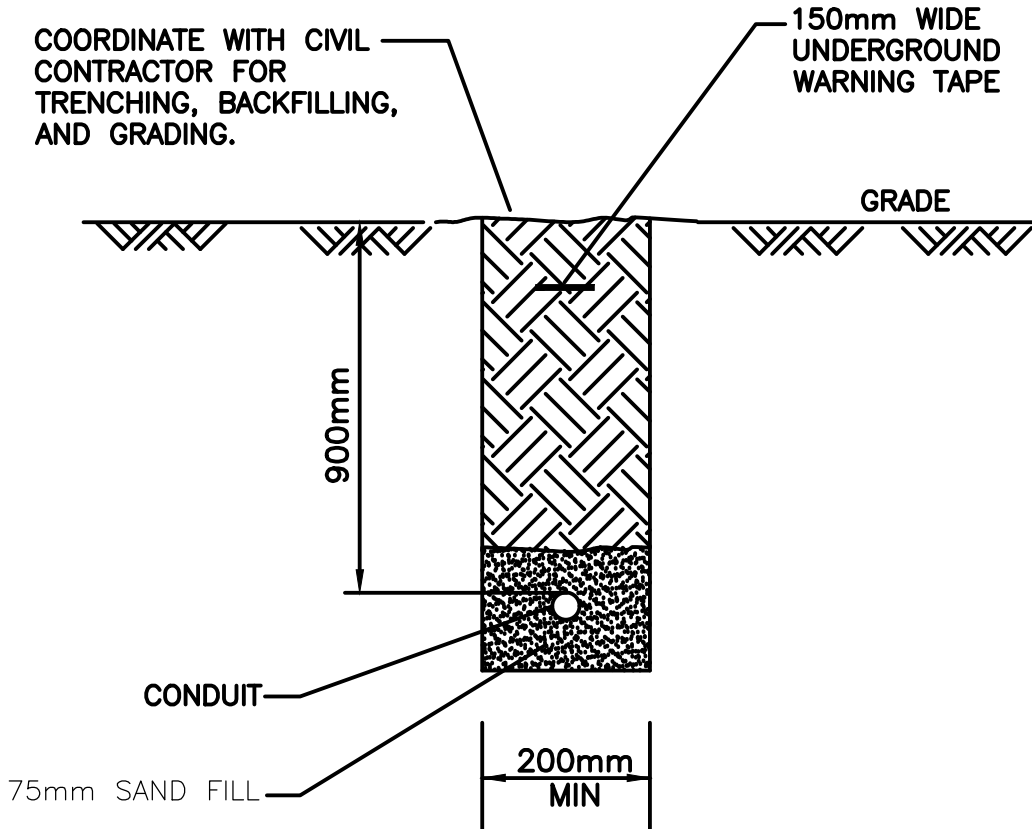
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1 NEW PANEL C CONDUIT INSTALLATION INTENT

DETAIL NOTES:

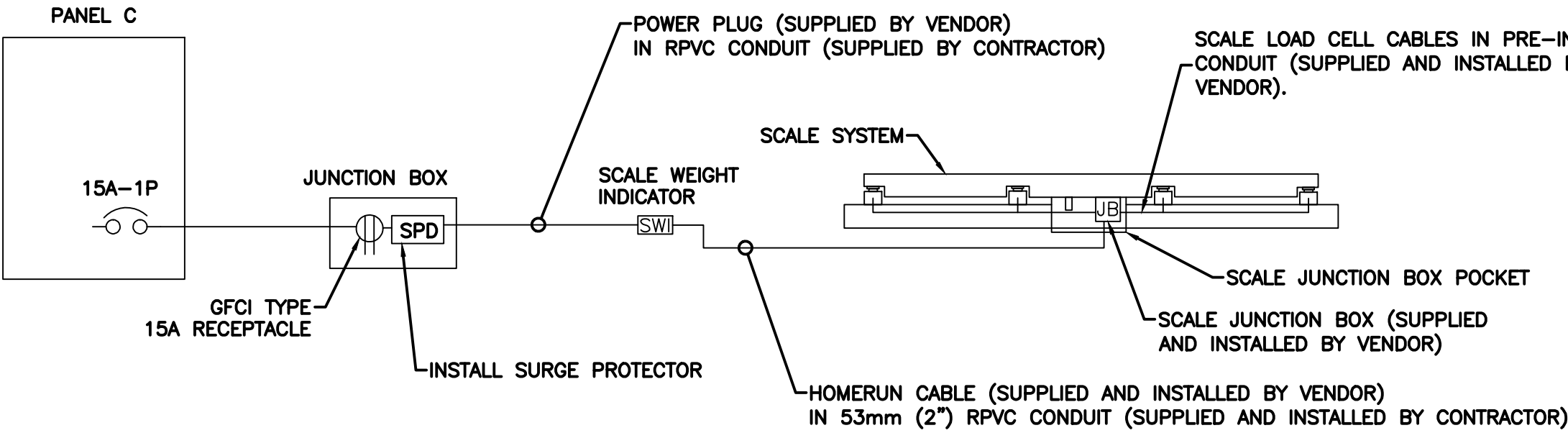
1. WHEN NEW ELECTRICAL UG CONDUIT IS INSTALLED IN AREA WHERE OTHER EXISTING SITE SERVICE INFRASTRUCTURE I.E. PLUMBING SERVICES AND ETC. ALREADY PRESENT, ELECTRICAL UG CONDUIT SHALL BE PLACED ABOVE AND BESIDE MINIMUM 300MM CLEARANCE WHEN CROSSING OVER EXISTING SERVICE. CONTRACTOR SHALL MAINTAIN CODE REQUIRED CLEARANCES AND MINIMUM DEPTHS ACCORDING TO CSA C22.3 NO.7. IF CONFLICT WITH DIMENSION SPECIFIED IN THE DETAIL, CONTRACTOR SHALL NOTIFY CONSULTANT IMMEDIATELY AND COORDINATE FOR ADJUSTMENT.



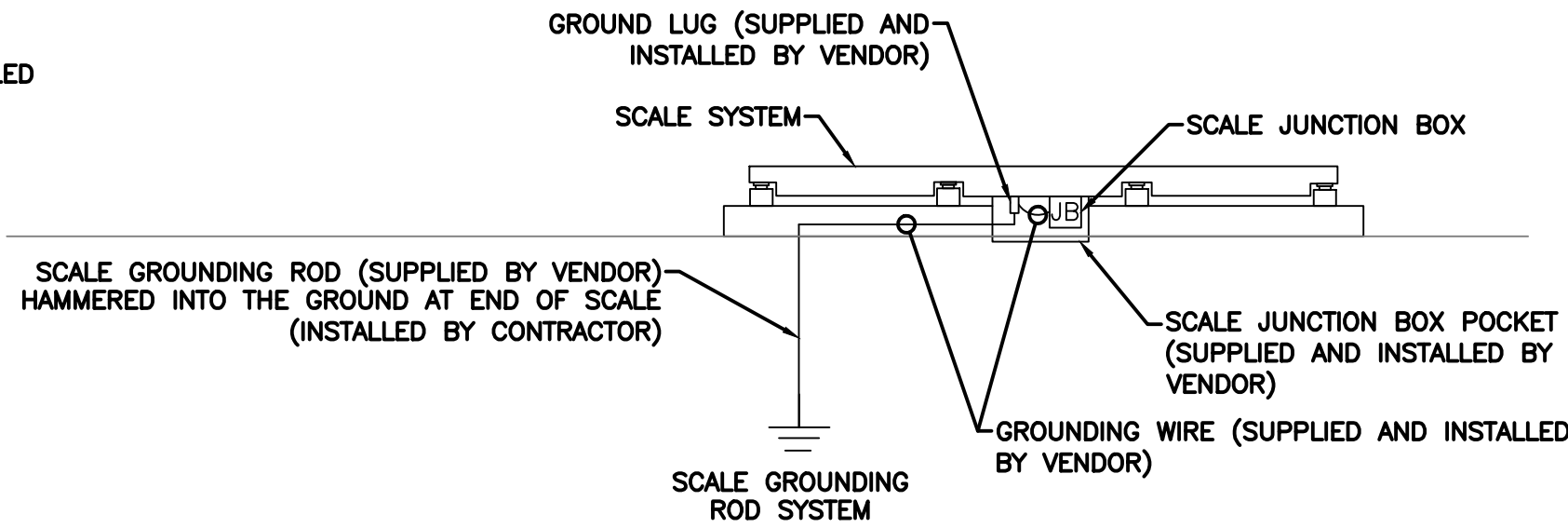
2 TRENCH U/G DIRECT BURIAL CONDUIT DETAIL

SCALE SYSTEM WIRING NOTES:

1. REFER TO MANUFACTURER INSTRUCTIONS FOR SCALE SYSTEM WIRING AND FINAL CONNECTION REQUIREMENTS.



3 SCALE SYSTEM WIRING INTENT



4 SCALE SYSTEM GROUNDING INTENT

SCALE SYSTEM GROUNDING NOTES:

1. REFER TO MANUFACTURER INSTRUCTIONS FOR SCALE SYSTEM GROUNDING REQUIREMENTS.

2. GROUNDING FOR THE SCALE SYSTEM SHALL BE A SINGLE POINT GROUNDING SYSTEM.

3. INCLUDE FOR TESTING OF WEIGH SCALE GROUNDING SYSTEM TO ENSURE THE FOLLOWING REQUIREMENTS ARE MET:

3.1. TEST RESISTANCE OF GROUNDING RODS USING CLAMP-ON MEGAOHM METER.

3.2. READING OF 3.75 OR LESS IS ACCEPTABLE FOR GROUNDING SYSTEM.

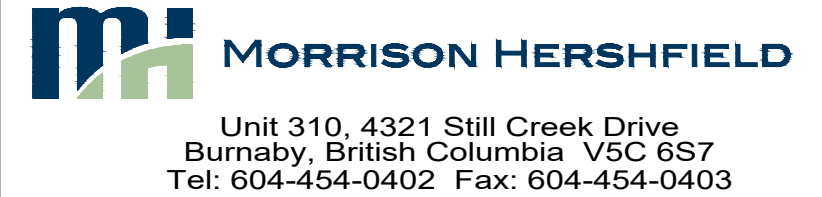
3.3. DO NOT CONNECT AC POWER TO THE SCALE SYSTEM BEFORE GROUNDING SYSTEM IS ADEQUATE.

4. ENSURE EACH LOAD CELL GROUNDING STRAP IS SECURELY CONNECTED TO THE TOP PLATE AND BOTTOM PLATE OF EACH LOAD CELL MOUNT.

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<p>STAMP</p> <p>PROFESSIONAL ENGINEER</p> <p>K. J. PEARSON</p> <p># 55508</p> <p>2023-08-31</p>	PERMIT TO PRACTICE
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ELECTRICAL DETAILS

DESIGN	MG	DATE	MAR 2023	SCALE	
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APPROVED				E04	6

EQUIPMENT SCHEDULE						
EQUIPMENT	MANUFACTURER	VOLTAGE/PHASE	SUPPLIED BY	INSTALLED BY	CONDUIT	WIRING
WEIGH SCALE	WESTERN ELIMINATOR CONCRETE DECK ABOVE GROUND TRUCK SCALE 40'x11' BY WESTERN SCALE CO. WESTERN ELIMINATOR CONCRETE DECK ABOVE GROUND TRUCK SCALE 80'x11' BY WESTERN SCALE CO.	120V/1PH	OWNER	VENDOR (COMPLETE FINAL CONNECTIONS)	53mm (2") RPVC CONDUIT (INSTALLED BY GENERAL CONTRACTOR)	2C #20 AWG CU RWU90 + GND (INSTALLED BY VENDOR)
EXTERIOR SCALE WEIGHT DISPLAY SYSTEM	SCALE WEIGHT DISPLAY: AURORA 20 BY WESTERN SCALE CO.	120V/1PH	OWNER	VENDOR (GENERAL CONTRACTOR TO COORDINATE INSTALL OF WIRING AND FINAL CONNECTIONS)	53mm (2") RPVC CONDUIT (INSTALLED BY GENERAL CONTRACTOR)	2C #19 AWG CU RWU90 + GND (120VAC WIRING INSTALLED BY GENERAL CONTRACTOR, CONTROL WIRING INSTALLED BY VENDOR)
TRAFFIC LIGHT SYSTEM	TRAFFIC CONTROLLER: MANUAL SWITCH BY WESTERN SCALE CO.	120V/1PH	OWNER	VENDOR (VENDOR RESPONSIBLE FOR WIRING AND TERMINATION)	53mm (2") RPVC CONDUIT (INSTALLED BY GENERAL CONTRACTOR)	3C #14AWG CU RW90 + GROUND (INSTALLED BY VENDOR)
SCALE WEIGHT INDICATOR	M2000 SCALE WEIGHT INDICATOR BY WESTERN SCALE CO.	120V/1PH	OWNER	VENDOR (GENERAL CONTRACTOR TO COORDINATE INSTALL OF WIRING AND FINAL CONNECTIONS)	53mm (2") RPVC CONDUIT (INSTALLED BY GENERAL CONTRACTOR)	2C #20 AWG CU RW90 (INSTALLED BY VENDOR)
LICENSE PLATE CAMERA SYSTEM	VIDEO RECORDER: NVR-8580 - 8 CHANNEL NVR WITH 2TB HARD DRIVE CAMERA: NHD-875WLB INTERFACE: WINDOWS PC WITH CAMERA SOFTWARE	48V POE	OWNER	VENDOR (GENERAL CONTRACTOR TO COORDINATE INSTALL OF WIRING AND FINAL CONNECTIONS)	53mm (2") RPVC CONDUIT (INSTALLED BY GENERAL CONTRACTOR)	CAT5e ETHERNET CABLE (SUPPLIED WITH CAMERAS, INSTALLED BY VENDOR)

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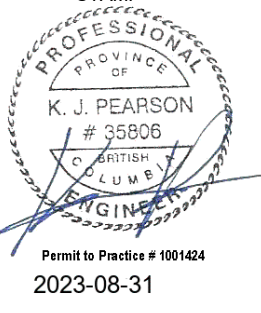
EQUIPMENT SCHEDULE

NTS

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ELECTRICAL SCHEDULES

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