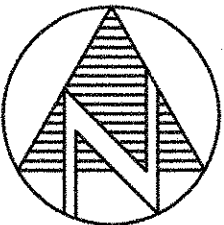
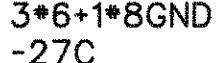
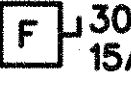
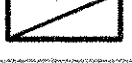
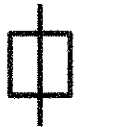


ELECTRICAL – GENERAL	
	NORTH ARROW ARROW INDICATES PROJECT NORTH
	BREAK LINE
	CONCEALED CONDUIT OR CABLE
	EXPOSED CONDUIT OR CABLE (3*6 DENOTES 3 CONDUCTORS *6 AWG, 1*8GND DENOTES 1 GROUND CONDUCTOR *8AWG, 27C DENOTES CONDUIT METRIC TRADE DESIGNATOR) (CONDUCTORS LARGER THAN *4/0 AWG IN kcmilD
	WEATHER PROOF
	EXPLOSION PROOF
	MATCH LINE
	EXISTING TO REMAIN
	NEW EQUIPMENT/INSTALLATION
	EXISTING TO BE REMOVED

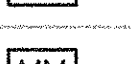
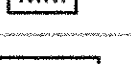
SINGLE LINE	
	AUTOMATIC TRANSFER SWITCH
	FUSED SWITCH-1
	TRANSFORMER

POWER / CONTROL	
	SINGLE RECEPTACLE
	DUPLEX RECEPTACLE
	DUPLEX RECEPTACLE WEATHER PROOF
	DUPLEX RECEPTACLE EXPLOSION PROOF
	DUPLEX RECEPTACLE W/ GFCI
	DUPLEX RECEPTACLES ISOLATED GROUND
	SPLIT RECEPTACLE
	UNFUSED DISCONNECT SWITCH
	FUSED DISCONNECT SWITCH (30 DENOTES SWITCH RATING, 15A DENOTES FUSE RATING)
	PULL BOX
	JUNCTION BOX
	120/208V POWER PANEL
	347/600V POWER PANEL

Cont. POWER / CONTROL	
	DIRECT CONNECTION
	DIRECT CONNECTION WITH DISCONNECT SWITCH
	FLOOR MOUNTED RECEPTACLE
	POTENTIOMETER
	BUZZER
	ROOF TOP GOOSE NECK
	TAMPER SWITCH
	FIELD DEVICE CONTROL SWITCH
	FIELD DEVICE MONITORING SWITCH
	CONTROL RELAY
	HUMIDITY SWITCH

LIGHTING	
	610X1220 FLUORESCENT LIGHTING FIXTURE
	305X1220 FLUORESCENT LIGHTING FIXTURE
	FLUORESCENT LIGHT FIXTURE ON EMERGENCY CIRCUIT
	CEILING MOUNTED SINGLE FACE EXIT LIGHT
	CEILING MOUNTED DOUBLE FACE EXIT LIGHT
	CEILING RECESSED LIGHTING FIXTURE
	WALL MOUNTED HID LIGHTING FIXTURE
	CEILING RESESSED LIGHTING FIXTURE ON EMERGENCY POWER
	SINGLE POLE TOGGLE SWITCH
	THREE WAY TOGGLE SWITCH

FIRE ALARM	
	FA BELL
	BELL WITH GUARD
	STROBE LIGHT
	HORN / STROBE EXPLOSION PROOF
	HORN / STROBE
	DUAL HORN STROBE
	FA DUAL HORN
	FA HORN/SPEAKER
	FA ANNUNCIATOR PANEL
	FA CONTROL PANEL
	END OF LINE DEVICE

Cont. FIRE ALARM	
	SMOKE DETECTOR
	MANUAL FA PULL STATION - STAND MOUNTED
	THERMAL DETECTOR RATE OF RISE
	THERMAL DETECTOR FIXED TEMPERATURE
	DUCT SMOKE DETECTOR
	SINGLE STAGE MANUAL PULL STATION
	SUPERVISED SHUT-OFF VALVE
	PRESSURE SWITCH
	FLOW SWITCH
	LIMIT SWITCH
	FIREMAN'S INTERCOM
	FAULT ISOLATOR MODULE
	CONTROL MODULE
	MONITOR MODULE
	TERMINATION BOX ENCLOSURE C/W WIRING TERMINALS

PA / CCTV AND SECURITY	
	PA SYSTEM SPEAKER
	CCTV CAMERA
	BURGLAR ALARM SYSTEM KEYPAD
	MAGNETIC DOOR CONTACT

TELEPHONE / DATA / DAS	
	DATA OUTLET, 'X' INDICATES NUMBER OF CABLES
	TELEPHONE OUTLET, 'X' INDICATES NUMBER OF CABLES

REVISIONS	REVISIONS
	
	
	

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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
LEGEND & SYMBOLS
SHEET 1 OF 2

Contract: SH35-8		
		
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT		
Dwg. No.	Rev. No.	Sheet No.
SH35-8-E001		044

ABBREVIATION	
A	AMPERES
AC	ALTERNATING CURRENT
AFF	ABOVE FINISH FLOOR
AWG	AMERICAN WIRE GAUGE
BCS	BUILDING CONTROL SYSTEM
CCTV	CLOSED-CIRCUIT TELEVISION
CO	CARBON MONOXIDE
DC	DIRECT CURRENT
DIA	DIAMETER
DWG	DRAWING
EMT	ELECTRICAL METALLIC TUBING
HP	HORSEPOWER
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
Hz	HERTZ
kW	KILOWATT
MCC	MOTOR CONTROL CENTRE
MH	MAINTENANCE HOLE
OBC	ONTARIO BUILDING CODE
PLC	PROGRAMMABLE LOGIC CONTROL
PVC	POLYVINYL CHLORIDE
RPM	REVOLUTION PER MINUTE
RTU	REMOTE TERMINAL UNIT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION SYSTEM
V	VOLT
W	WATT
NIC	NOT IN CONTRACT
TYP	TYPICAL
MTS	MANUAL TRANSFER SWITCH
ATS	AUTOMATIC TRANSFER SWITCH
THES	TORONTO HYDRO ELECTRICAL SERVICE
3P	THREE POLE
EC	EMPTY CONDUIT
NO	NORMALLY OPEN
NC	NORMALLY CLOSE
RGS	RIGID GALVANIZED STEEL
C	CONDUIT
E	DENOTES EXISTING FIXTURE/EQUIPMENT TO REMAIN
ER	DENOTES EXISTING FIXTURE/EQUIPMENT IN RELOCATED POSITION

Cont. ABBREVIATION	
R	DENOTES EXISTING FIXTURE/EQUIP. TO BE DISCONNECTED & REMOVED
RL	DENOTES EXISTING FIXTURE/EQUIPMENT TO BE RELOCATED

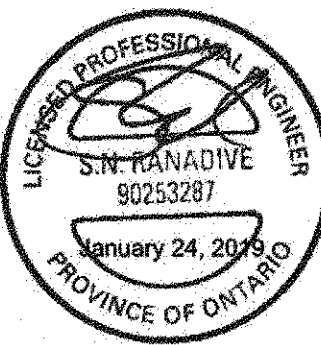
GENERAL NOTES:

- CONSULT TTC TO OBTAIN APPROVAL PRIOR TO STARTING ANY REMOVAL OR INSTALLATION. CONTRACTOR TO VERIFY ALL EXISTING CONDUITS AND CIRCUITS, INCLUDING SURFACE CEILING/WALL MOUNTED AND ENBEDDED IN FLOORS.
- ALL ELECTRICAL INSTALLATION WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST ONTARIO ELECTRICAL SAFETY CODE, AND ALL APPLICABLE CODES FOR AN ONTARIO INSTALLATION.
- CONDUITS ROUTING AND LOCATION OF ELECTRICAL EQUIPMENT OR DEVICES ARE SHOWN DIAGRAMMATIC. ROUTE CONDUITS TO SUIT SITE CONDITIONS AND OESC.
- CONTRACTOR TO CUT OR CORE DRILL CONCRETE FLOORS OR WALLS AS REQUIRED. BUT EXTRA CARE MUST BE TAKEN TO ENSURE AREA TO BE CUT OR CORED THROUGH DOES NOT INTERFERE WITH EXISTING OPERATION, EXISTING SERVICES OR DAMAGE EXISTING WEATHER SEAL MEMBRANE. DO NOT CUT EXISTING REINFORCEMENT UNLESS APPROVED BY TTC.
- FOR ALL NEW POWER WIRING, USE TYPE RW90 COPPER WIRE, MIN. *12AWG IN 21mmC UNLESS OTHERWISE INDICATED ON THE DRAWING OR SPECIFICATION.
- ALL NEW CONDUITS MUST BE HOT DIPPED RIGID GALVANIZED STEEL (RGS), MIN. 21mm UNLESS OTHERWISE INDICATED ON THE DRAWING OR SPECIFICATION.
- INSTALL PULL OR JUNCTION BOXES FOR ALL CONDUIT RUNS LONGER THAN 30 METER. EXACT LOCATION TO SUIT SITE CONDITION.
- PROVIDE AND INSTALL GROUNDING AS PER DRAWINGS, SPECIFICATIONS, AND TO SUIT THE RULES AND REGULATIONS OF THE AUTHORITIES HAVING JURISDICTION. BOND ALL METALLIC CONDUITS, JUNCTION/PULL BOXES AND NON-CURRENT CARRYING METAL PARTS OF EQUIPMENT TO THE STATION'S EXISTING GROUNDING SYSTEM. REFER TO DRAWINGS, SPECIFICATION SECTION 260526 FOR GROUND WIRE DETAILS.
- ALL CONDUIT ROUTINGS AND PULL/JUNCTION BOX LOCATIONS ARE CONTRACTOR'S RESPONSIBILITY. PROVIDE THE BEST ROUTE REQUIRED BY CODE. ALL CABLES, CONDUITS AND BOXES SHALL BE LABELLED AS PER SPECIFICATION.
- CONTRACTOR TO THOROUGHLY INSPECT THE SITE, VERIFY ALL INSTALLATION PRIOR TO ANY CONSTRUCTION WORK.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION STAGING AND SEQUENCE. COORDINATE WITH OTHER DISCIPLINES AND SUB-TRADES FOR INTERFERENCE.
- REFER TO ELECTRICAL SPECIFICATIONS AND DRAWINGS FOR DETAILED ELECTRICAL SCOPE OF WORK.
- WHEN EQUIPMENT IS BEING REMOVED OR RELOCATED, IT SHALL BE INCUMBENT ON THE CONTRACTOR TO MAKE GOOD. THE CONTINUITY OF ALL CIRCUITS FROM WHICH EQUIPMENT IS BEING REMOVED. MAKE SAFE ALL WIRING FROM REMOVED EQUIPMENT WHERE NECESSARY.
- MAINTAIN CONTINUITY TO THE MAXIMUM EXTENT POSSIBLE FOR ALL EXISTING LIFE SAFETY & CRITICAL OPERATING SYSTEMS DURING DEMOLITION. WRITTEN APPROVAL FROM TTC SHALL BE REQUIRED IN ORDER TO DISCONNECT CRITICAL OPERATING & LIFE SAFETY SYSTEMS.
- CONTRACTOR TO DO MANDATORY X-RAY OR SCAN AREAS TO ENSURE EXISTING EMBEDDED SERVICES ARE NOT DAMAGED.
- ACCESS TO ALL ELECTRICAL ROOMS TO BE AS PER OBC & ESA REGULATIONS. CONTACT NUMBER FOR THE CREWS TO BE PROVIDED.
- A CIRCUIT IMPLEMENTATION FORM TO ACCOMPANY ALL ELECTRICAL WORK PERFORMED ON EXISTING INSTALLATIONS AFFECTED, INCLUDING "AS-BUILT" DRAWINGS.
- CONDUIT SIZES SHOWN USING METRIC TRADE DESIGNATION.
- STOP WIRING/PIPING WITHIN ONE (1) METRE OF THE EXISTING SERVICE PANELS AND KEEP SUFFICIENT LENGTH OF CABLES COILED FOR FUTURE CONNECTION BY TTC.
- REMOVE WIRING FROM CONDUIT FOR ABANDONED CIRCUITS. FOR SURFACE MOUNTED CONDUITS REMOVE THE CONDUITS. FOR CONCRETE ENCASED CONDUITS CUT FLUSH WITH CONCRETE AND CAP.
- UPDATE ALL THE EXISTING PANEL SCHEDULES USED FOR DEMOLITION AND/OR ANY NEW CIRCUITS USED UNDER THIS PROJECT.
- CONTRACTOR TO REUSE EXISTING ELECTRICAL CIRCUIT OR PANEL FOR NEW INSTALLATION AS INDICATED ON DRAWINGS. CHECK THE EXISTING LOAD BEFORE CONNECTION OF NEW LOADS TO AVOID CIRCUIT OVERLOAD.
- CONTRACTOR TO PROVIDE AND INSTALL TEMPORARY LIGHTING FIXTURES AS REQUIRED WITHIN SCOPE OF WORK AREAS. FIXTURES TO BE TEMPORALLY FED FROM EXISTING PANEL LIGHTING CIRCUIT. REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURES LOCATION.
- CONTRACTOR TO COMPLY WITH TTC PROCEDURES FOR SITE SERVICE ISOLATIONS WHENEVER ANY CUTTING, CORING OR DRILLING OF WALLS, CEILINGS OR FLOORS IS TO TAKE PLACE.
- ALL DISCONNECTION AND RECONNECTION IN EXISTING PANELS ARE TO BE DONE BY TTC.
- CONTRACTOR TO SURVEY AND REFLECT ON AS-BUILT DRAWINGS THE PANEL NAMES AND CIRCUIT NUMBERING FOR ALL RELOCATED AND/OR REUSED EXISTING CIRCUITS.
- PRIOR TO ANY WORK BEING PERFORMED, THE ISOLATION OF EXISTING POWER SOURCE OR CIRCUITS BY TTC'S SEC ELECTRICIANS IS REQUIRED.
- CONTRACTOR TO COORDINATE WITH TTC'S REPRESENTATIVE TO MAKE ARRANGEMENT FOR ALL DISCONNECTIONS AND RECONNECTIONS TO THE EXISTING SERVICES. REFER TO SPECIFICATIONS FOR DETAILS.
- CONTRACTOR TO CONSIDER FIBER OPTIC CONNECTION WITH ALL REQUIRED DEVICES FOR FULL FUNCTIONALITY TO ALL DATA, CCTV, AND SECURITY POINT WHICH ARE OVER 100M IN LENGTH IN THE PRICING OF THIS CONTRACT.

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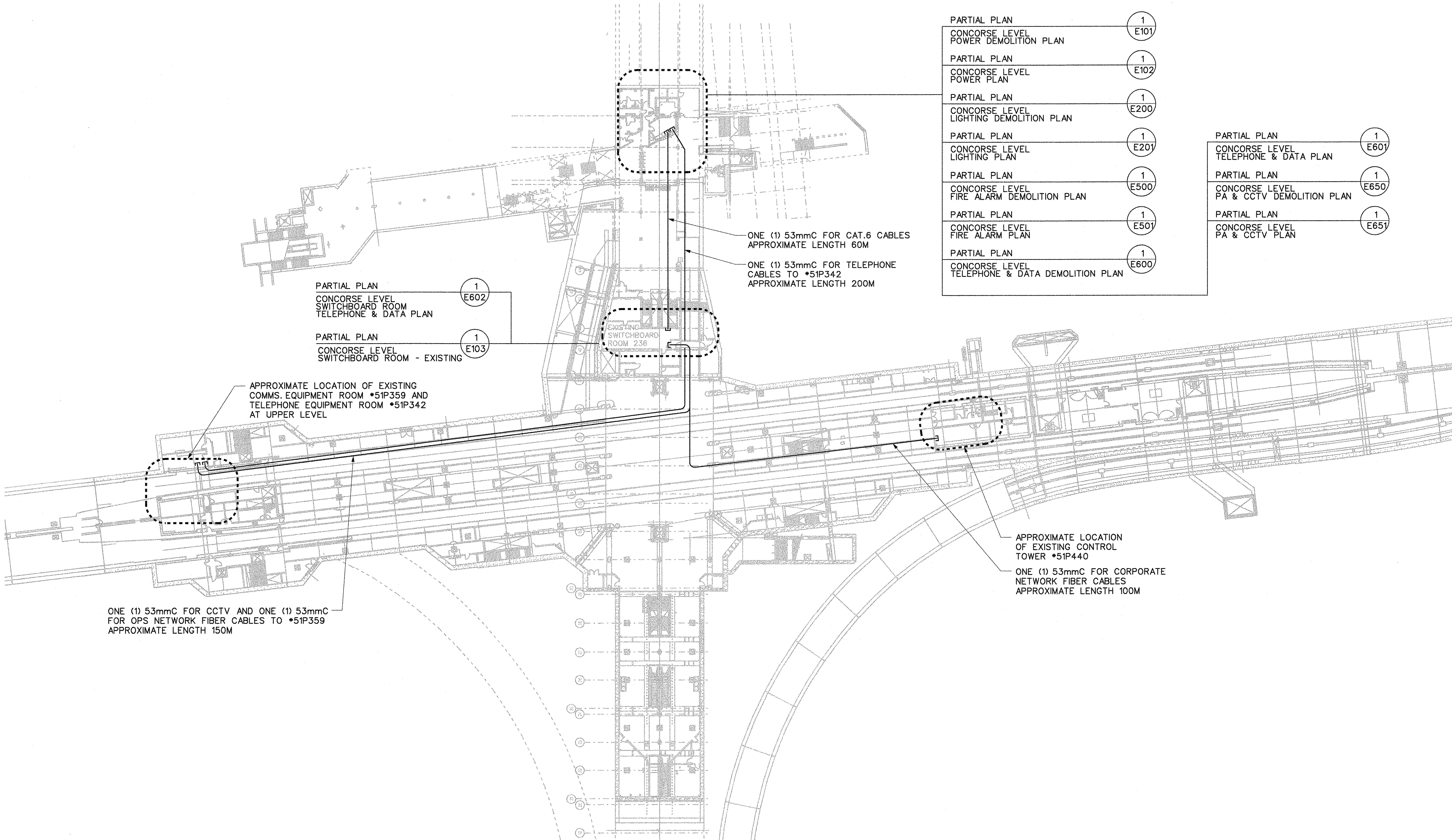
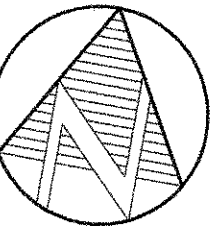
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
LEGEND & SYMBOLS
SHEET 2 OF 2

Contract: SH35-8		
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT		
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SH35-8-E002		045



PARTIAL PLAN	1
CONCORSE LEVEL POWER DEMOLITION PLAN	E101
PARTIAL PLAN	1
CONCORSE LEVEL POWER PLAN	E102
PARTIAL PLAN	1
CONCORSE LEVEL LIGHTING DEMOLITION PLAN	E200
PARTIAL PLAN	1
CONCORSE LEVEL LIGHTING PLAN	E201
PARTIAL PLAN	1
CONCORSE LEVEL FIRE ALARM DEMOLITION PLAN	E500
PARTIAL PLAN	1
CONCORSE LEVEL FIRE ALARM PLAN	E501
PARTIAL PLAN	1
CONCORSE LEVEL TELEPHONE & DATA DEMOLITION PLAN	E600

PARTIAL PLAN	1
CONCORSE LEVEL TELEPHONE & DATA PLAN	E601
PARTIAL PLAN	1
CONCORSE LEVEL PA & CCTV DEMOLITION PLAN	E650
PARTIAL PLAN	1
CONCORSE LEVEL PA & CCTV PLAN	E651

ONE (1) 53mmC FOR CCTV AND ONE (1) 53mmC FOR OPS NETWORK FIBER CABLES TO *51P359 APPROXIMATE LENGTH 150M

PARTIAL PLAN
CONCORSE LEVEL SWITCHBOARD ROOM TELEPHONE & DATA PLAN

PARTIAL PLAN
CONCORSE LEVEL SWITCHBOARD ROOM - EXISTING

ONE (1) 53mmC FOR CAT.6 CABLES APPROXIMATE LENGTH 60M
ONE (1) 53mmC FOR TELEPHONE CABLES TO *51P342 APPROXIMATE LENGTH 200M

APPROXIMATE LOCATION OF EXISTING CONTROL TOWER *51P440
ONE (1) 53mmC FOR CORPORATE NETWORK FIBER CABLES APPROXIMATE LENGTH 100M

REVISIONS	REVISIONS

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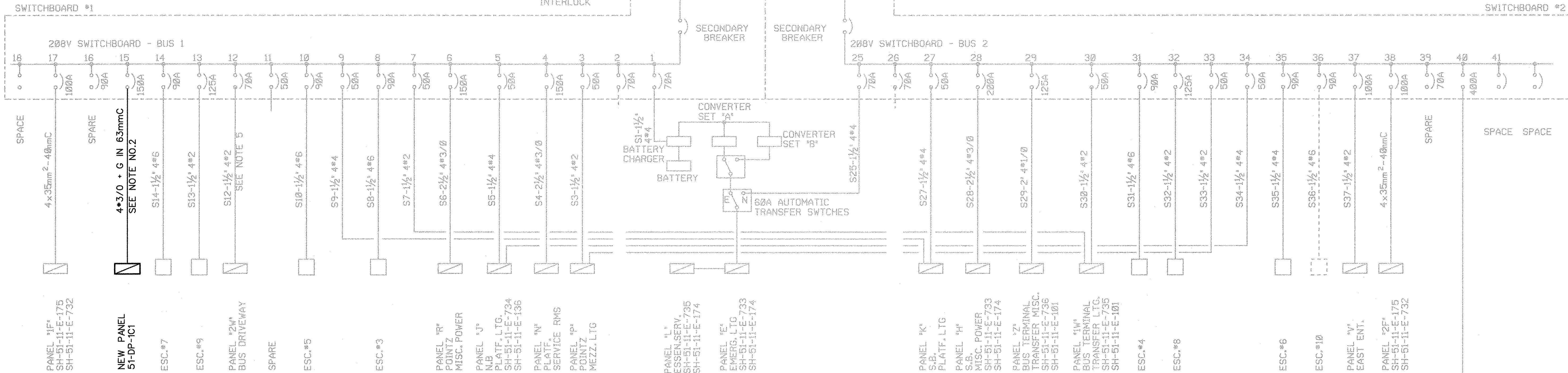
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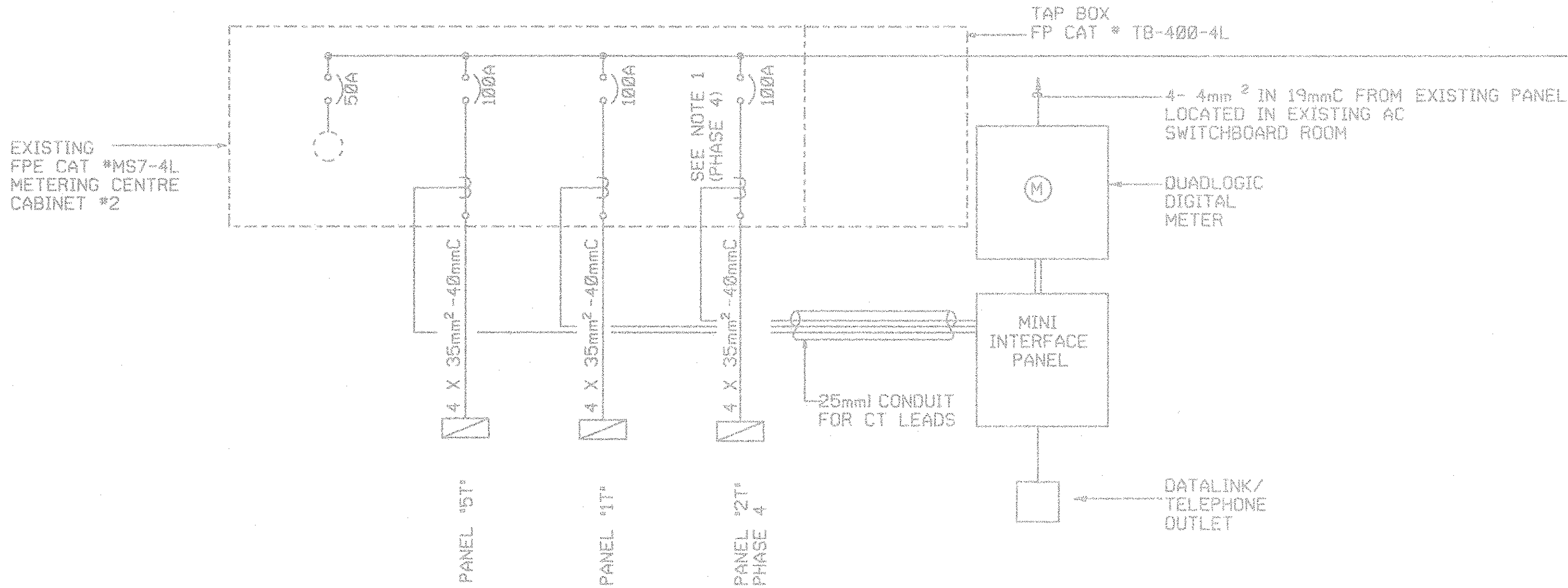
SHEPPARD STATION
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AND ZONE HUB
KEY PLAN
CONCORSE LEVEL

Contract: SH35-8		
Dwg. No.	Rev. No.	Sheet No.
SH35-8-E003		046



NOTES:

1. THE SWITCHBOARD AND ELECTRICAL EQUIPMENT SHOWN ARE EXISTING UNLESS OTHERWISE NOTED AS NEW. EXISTING SWITCHBOARD IS LOCATED AT SWITCHBOARD ROOM *236. REFER TO DRAWING E103 FOR LOCATION.
2. INSTALL NEW FEEDER AND PANEL FED FROM EXISTING SWITCHBOARD SPARE BREAKER AS INDICATED. LEAVE SUFFICIENT CABLE LENGTH FOR CONNECTION BY TTC.
3. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



REVISIONS	REVISIONS

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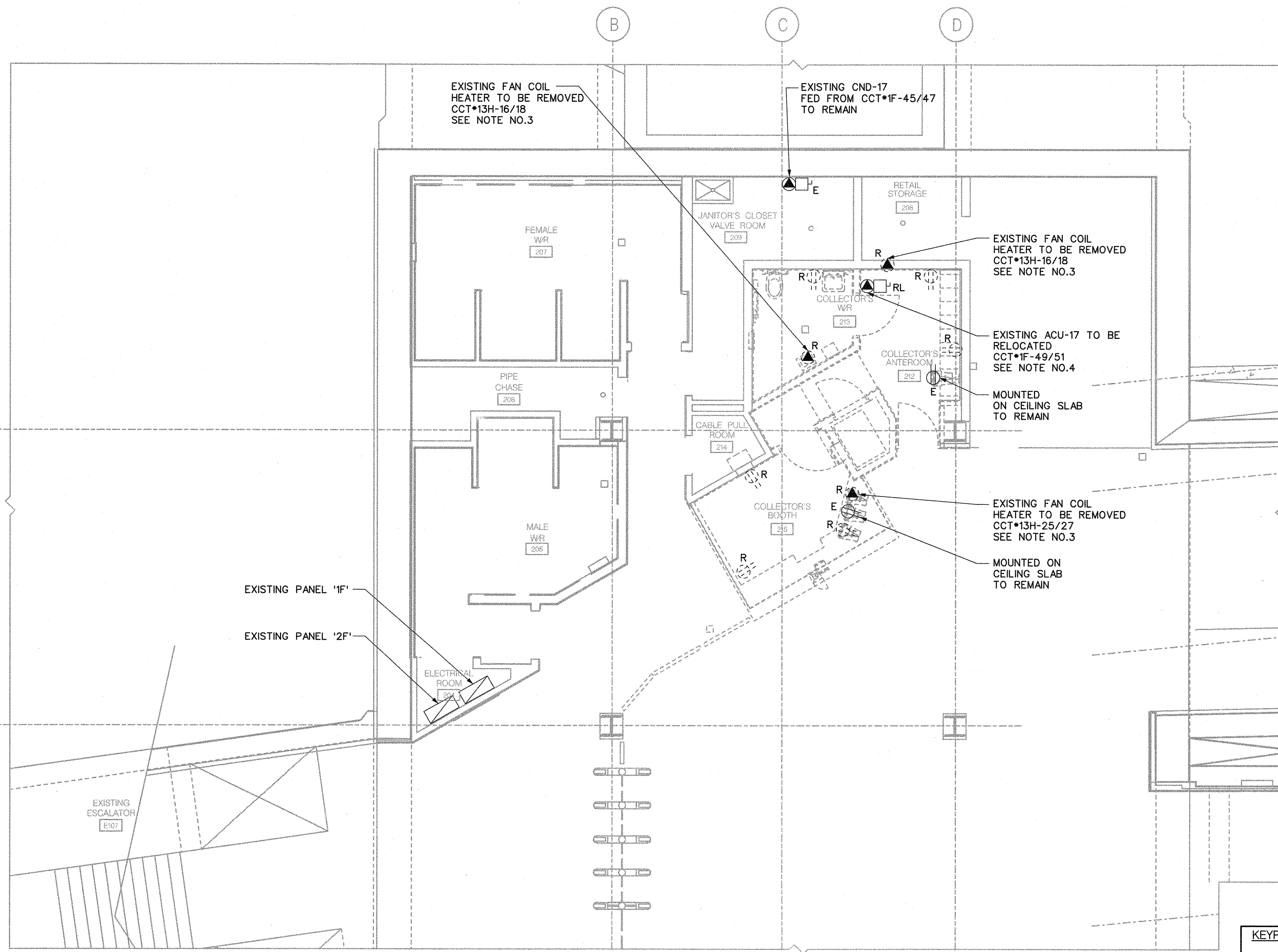
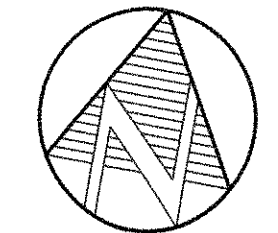
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
POWER
SINGLE LINE DIAGRAM

Contract: SH35-8
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT
Dwg. No. SH35-8-E100
Rev. No.
Sheet No. 047



- NOTES:
1. REMOVE ALL EXISTING RECEPTACLES IN THE SCOPE OF WORK AREA AS SHOWN. REMOVE ALL ASSOCIATED WIRING, CONDUITS AND JUNCTION BOXES. EXACT QUANTITIES OF DEVICES TO BE VERIFIED ON SITE.
 2. EXISTING DEVICES SHOWN ARE BASED ON RECORD DRAWINGS AND SITE VISUAL SURVEY. CONTRACTOR TO SITE VERIFY EXACT QUANTITIES OF DEVICES TO BE REMOVED DUE TO DEMOLITION WORK.
 3. REMOVE THE EXISTING POWER SUPPLY FOR FAN COIL HEATERS IN SCOPE OF WORK AREA DUE TO THE REMOVAL OF THE EQUIPMENT. ALL ASSOCIATED POWER WIRING, CONDUITS AND BOXES SHALL BE COMPLETELY REMOVED BACK TO SOURCE PANEL '13H'. UPDATE EXISTING PANEL SCHEDULE TO REFLECT THE CHANGES. COORDINATE WITH MECHANICAL TRADE FOR THESE REMOVALS.
 4. SAFELY DISCONNECT THE EXISTING POWER CONNECTION FROM DISCONNECT SWITCH TO ACU-17 PRIOR TO THE RELOCATION OF THIS UNIT. PROTECT AND RELOCATE THE EXISTING DISCONNECT SWITCH TO SUIT NEW UNIT LOCATION. COORDINATE WITH MECHANICAL TRADE FOR THIS SCOPE OF WORK.
 5. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.

PARTIAL PLAN
CONCOURSE LEVEL DEMOLITION POWER PLAN

1
E003

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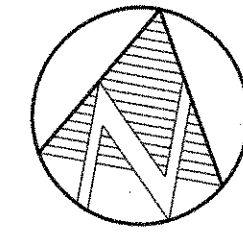
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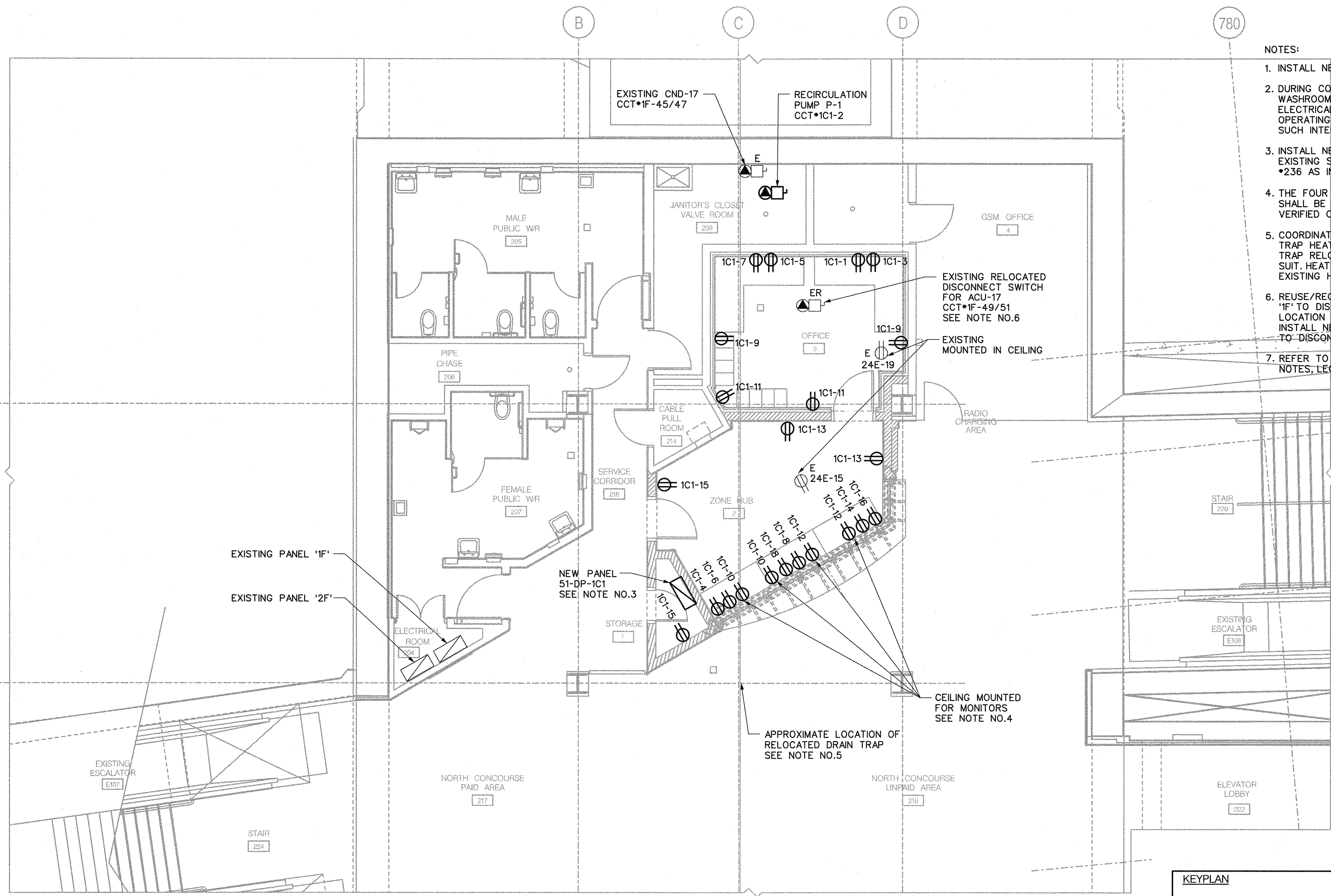
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AND ZONE HUB
POWER DEMOLITION PLAN
CONCOURSE LEVEL

Contract: SH35-8		
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT		
Dwg. No.	Rev. No.	Sheet No.
SH35-8-E101		048
Plot Date: 23-APR-2019		



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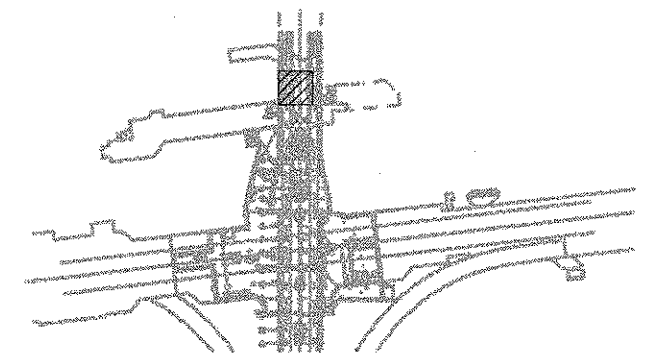
1. INSTALL NEW RECEPTACLES AS INDICATED.
2. DURING CONSTRUCTION PERIOD, THE EXISTING PUBLIC WASHROOMS, SERVICE CORRIDOR AND SERVICE ROOMS ELECTRICAL SERVICE SHALL NOT BE INTERRUPTED DURING OPERATING HOURS. COORDINATE WITH TTC FOR SCHEDULE IF SUCH INTERRUPTION OCCURS.
3. INSTALL NEW FEEDER FED FROM SPARE CIRCUIT OF THE EXISTING SWITCHBOARD #1 LOCATED AT SWITCHBOARD ROOM #236 AS INDICATED ON DRAWING E100.
4. THE FOUR (4) CEILING MOUNTED RECEPTACLES FOR MONITORS SHALL BE MOUNTED EVENLY SPACED. EXACT LOCATION TO BE VERIFIED ON SITE.
5. COORDINATE WITH MECHANICAL CONTRACTOR FOR EXISTING DRAIN TRAP HEAT TRACING MODIFICATION AS REQUIRED DUE TO DRAIN TRAP RELOCATION. EXTEND EXISTING HEAT TRACING CABLE TO SUIT. HEAT TRACING CABLE MODEL TO MATCH EXISTING. UPDATE EXISTING HEAT TRACING SCHEDULE FOR RECORD PURPOSE.
6. REUSE/RECONNECT THE EXISTING POWER FEEDER FROM PANEL '1F' TO DISCONNECT SWITCH. CONFIRM WITH TTC THE PREFERRED LOCATION OF DISCONNECT SWITCH PRIOR TO INSTALLATION. INSTALL NEW WIRING AND CONDUIT FROM THE RELOCATED UNIT TO DISCONNECT SWITCH AS REQUIRED.
7. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



PARTIAL PLAN
CONCOURSE LEVEL POWER PLAN

1
E003

KEYPLAN



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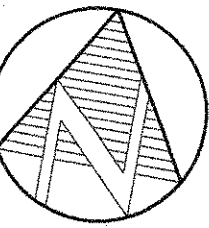
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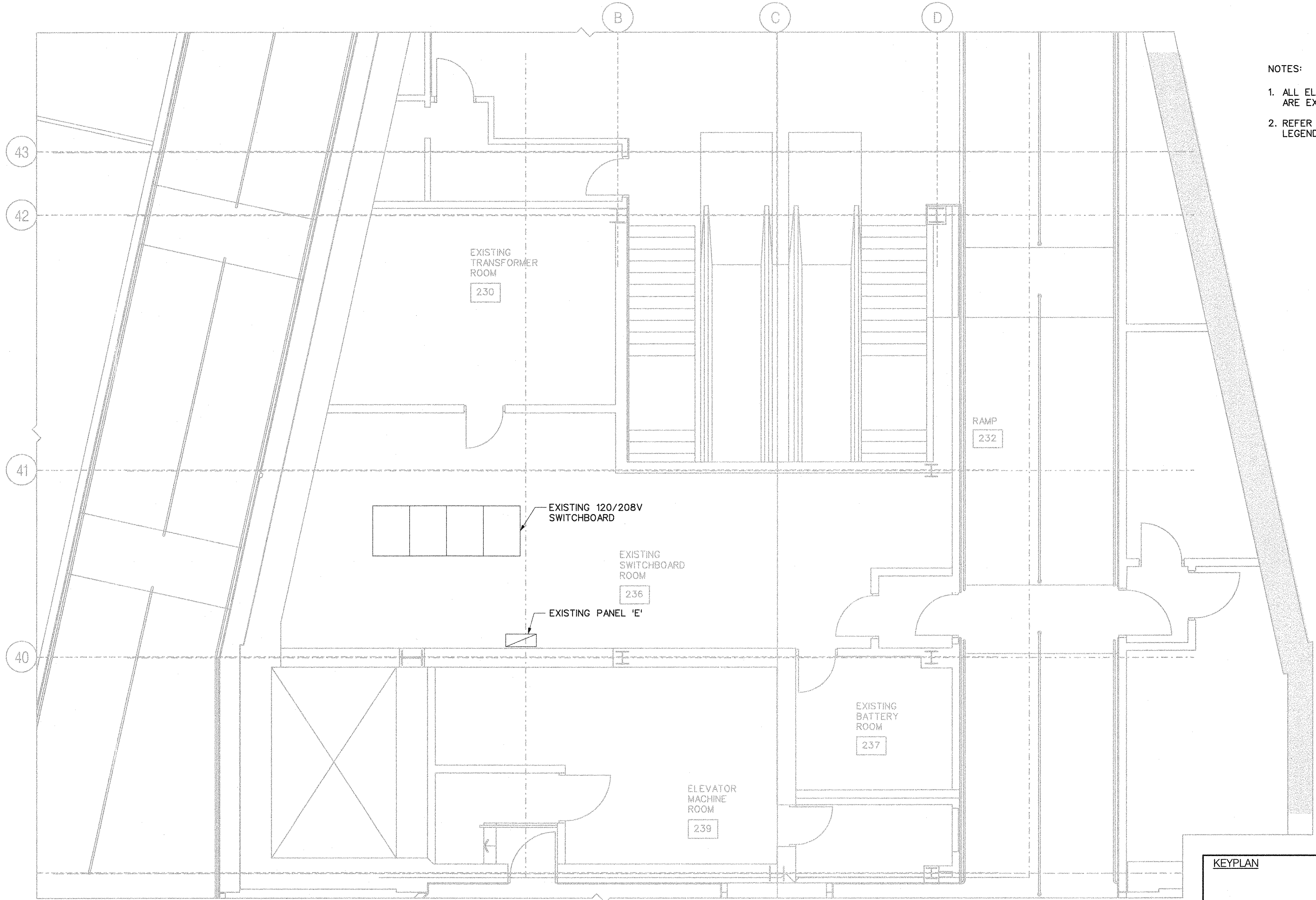
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
POWER PLAN
CONCOURSE LEVEL

Contract: SH35-8		
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT		
Dwg. No.	Rev. No.	Sheet No.
SH35-8-E102		049
Plot Date: 23-APR-2019		



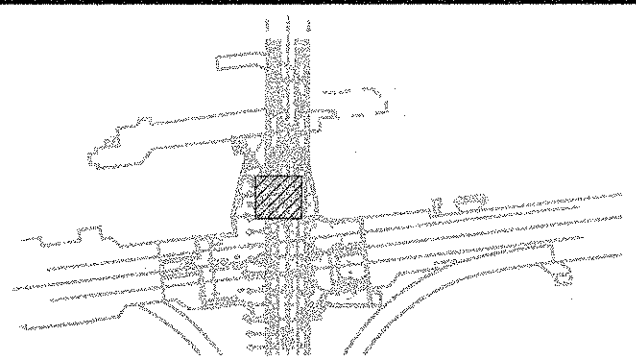
- NOTES:
1. ALL ELECTRICAL EQUIPMENT SHOWN IN THE SWITCHBOARD ROOM *236 ARE EXISTING AND INDICATIVE FOR REFERENCE PURPOSE.
 2. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



PARTIAL PLAN
CONCOURSE LEVEL SWITCHBOARD ROOM - EXISTING

1
E003

KEYPLAN



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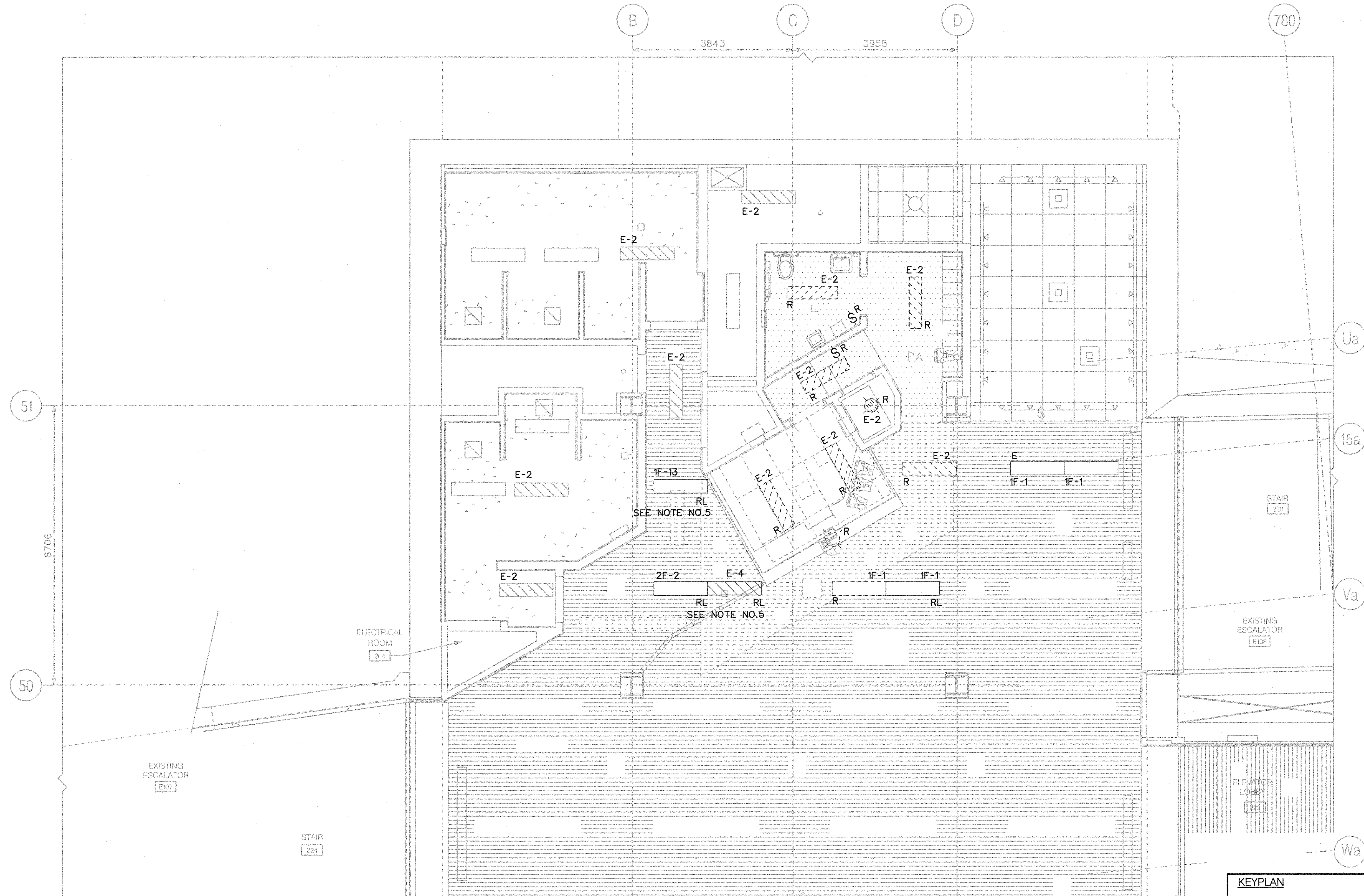
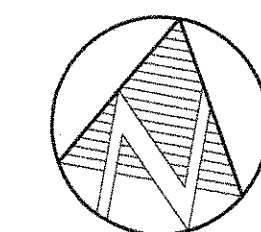
SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
POWER PLAN
CONCOURSE LEVEL (SWITCHBOARD ROOM)

Contract: SH35-8

TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT

Dwg. No. SH35-8-E103 Rev. No. Sheet No. 050

Plot Date: 25-JAN-2019

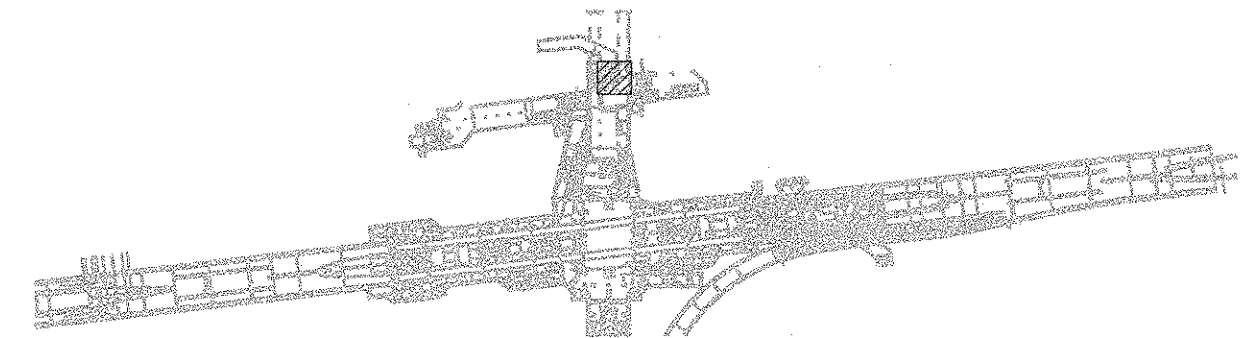


- NOTES:
1. REMOVE AND DISPOSE ALL EXISTING LIGHTING FIXTURES, ASSOCIATED CONTROL SWITCHES, WIRING AND CONDUITS, JUNCTION BOXES AS INDICATED IN THE SCOPE OF WORK AREA OFF SITE.
 2. EXISTING LIGHTING FIXTURES AND SWITCHES SHOWN ARE BASED ON SITE VISUAL INSPECTION AND RECORD DRAWINGS. EXACT DEVICES LOCATION AND QUANTITY TO BE VERIFIED ON SITE.
 3. ALL EXISTING LIGHTING FIXTURES, SWITCHES SHOWN DASHED SHALL BE REMOVED. REMOVE ALL ASSOCIATED WIRING, CONDUITS AND BOXES. INSTALL TEMPORARY LIGHTING AS REQUIRED DURING CONSTRUCTION.
 4. ACCORDING TO THE RECORD DRAWINGS, THE MAJORITY OF EXISTING LIGHTING FIXTURES IN THE SCOPE OF WORK AREA ARE FED FROM EMERGENCY PANEL 'E' CCT*E-2. CONTRACTOR TO TAKE EXTRA PRECAUTION TO MINIMIZE SERVICE INTERRUPTION IN PUBLIC WASHROOMS AND CORRIDOR AREA DURING DEMOLITION.
 5. RELOCATE OR REMOVE THE EXISTING LIGHTING FIXTURES AT SERVICE CORRIDOR AND CONCOURSE AREA AS INDICATED, DUE TO THE CEILING WORK. INSTALL TEMPORARY LIGHTING AS REQUIRED.
 6. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.

PARTIAL PLAN
CONCOURSE LEVEL DEMOLITION LIGHTING PLAN

1
E003

KEYPLAN



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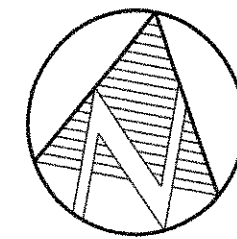
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
LIGHTING DEMOLITION PLAN
CONCOURSE LEVEL

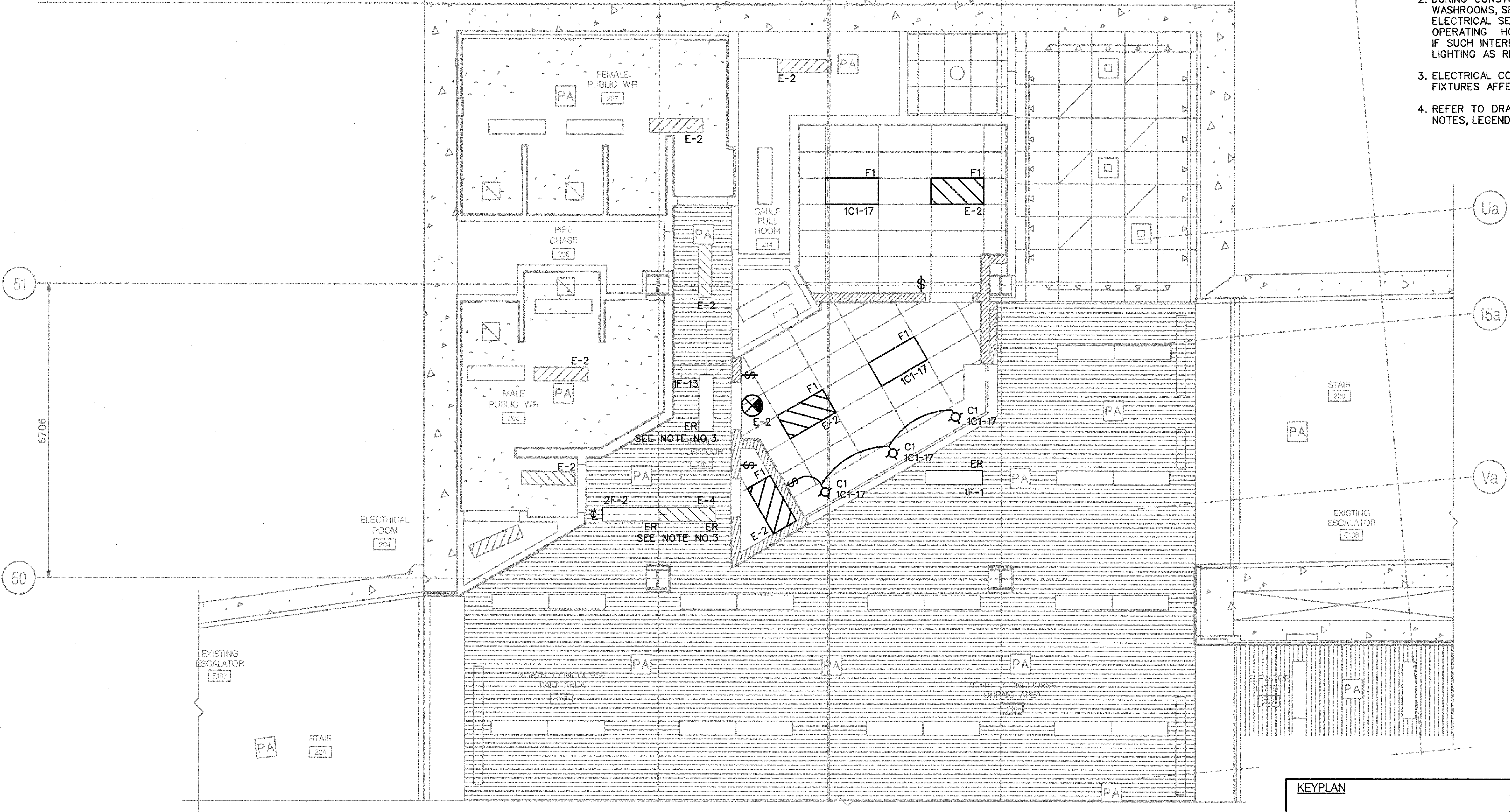
Contract: SH35-8
TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT
Dwg. No. SH35-8-E200 Rev. No. 051 Sheet No. 051
Plot Date: 25-JAN-2019



NOTES:

1. REUSE THE EXISTING EMERGENCY LIGHTING CIRCUIT *E-2 FOR NEW EMERGENCY LIGHTING INSTALLATION IN THE SCOPE OF WORK. THIS IS BASED ON RECORD DRAWINGS. MARK ON AS BUILT DRAWING IF THERE IS DIFFERENCE ON SITE.
2. DURING CONSTRUCTION PERIOD, THE EXISTING PUBLIC WASHROOMS, SERVICE CORRIDOR AND SERVICE ROOMS ELECTRICAL SERVICE SHALL NOT BE INTERRUPTED DURING OPERATING HOURS. COORDINATE WITH TTC FOR SCHEDULE IF SUCH INTERRUPTION OCCURS. PROVIDE TEMPORARY LIGHTING AS REQUIRED.
3. ELECTRICAL CONTRACTOR TO RELOCATE THE EXISTING FIXTURES AFFECTED BY THE CEILING WORK AS INDICATED.
4. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.

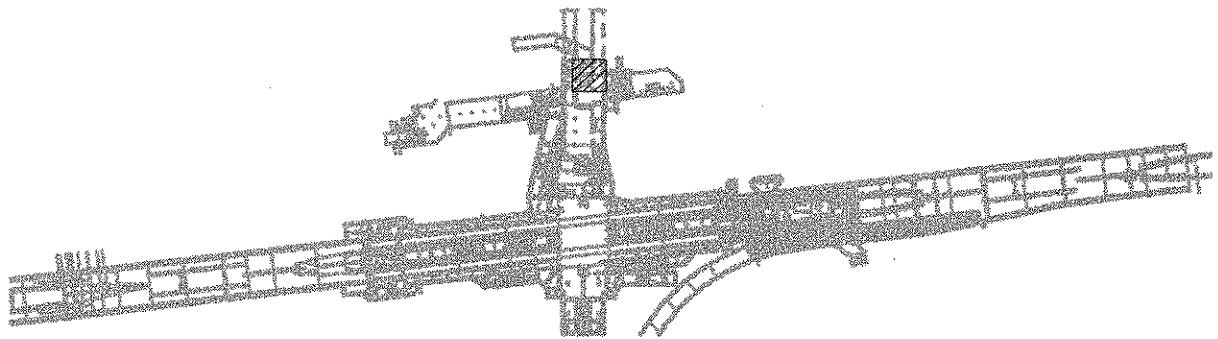
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PARTIAL PLAN
CONCOURSE LEVEL LIGHTING PLAN

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KEYPLAN



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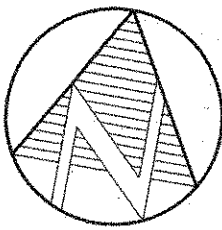
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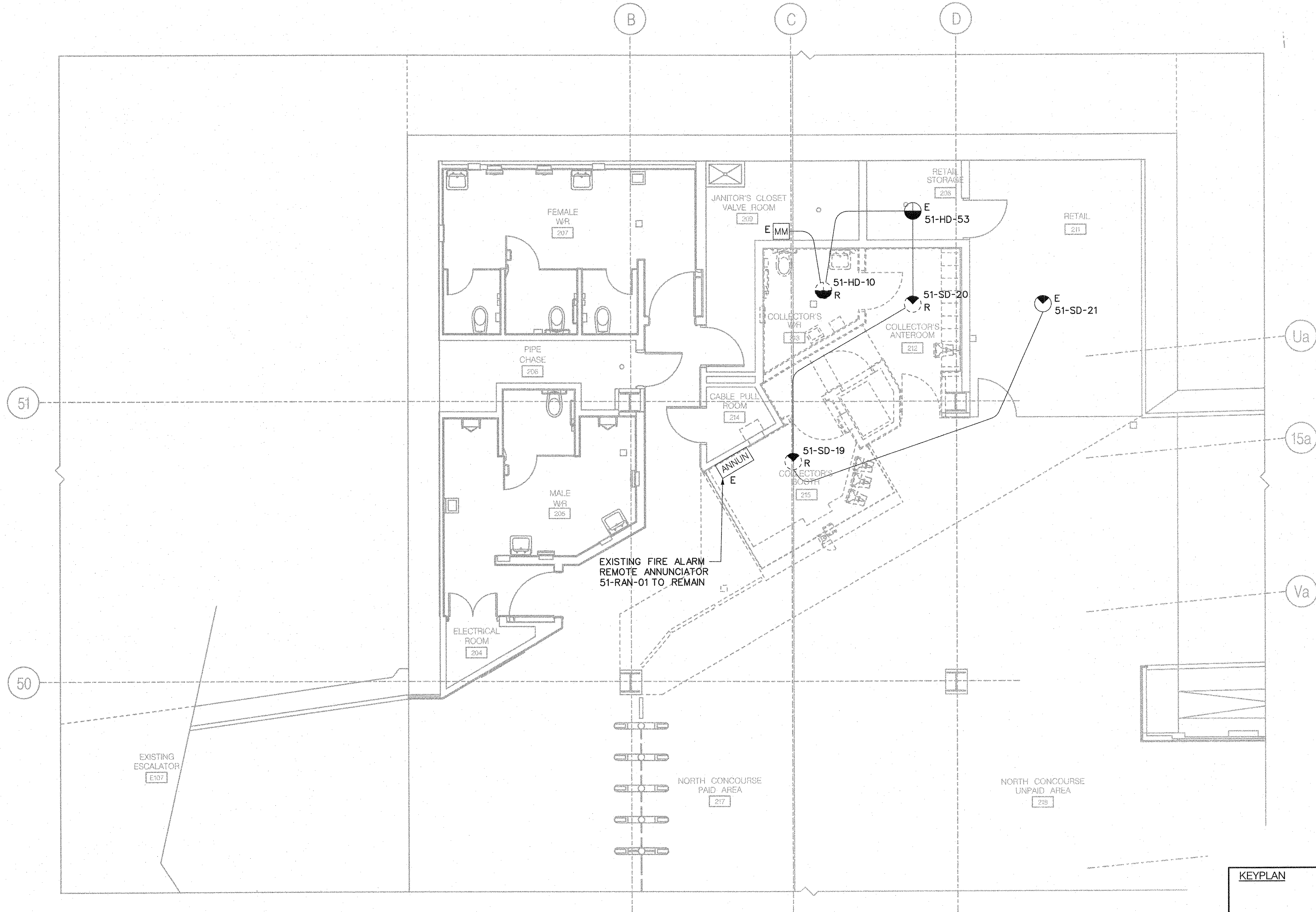
SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
LIGHTING PLAN
CONCOURSE LEVEL

Contract: SH35-8
TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT
Dwg. No. SH35-8-E201 Rev. No. Sheet No. 052
Plot Date: 23-APR-2019



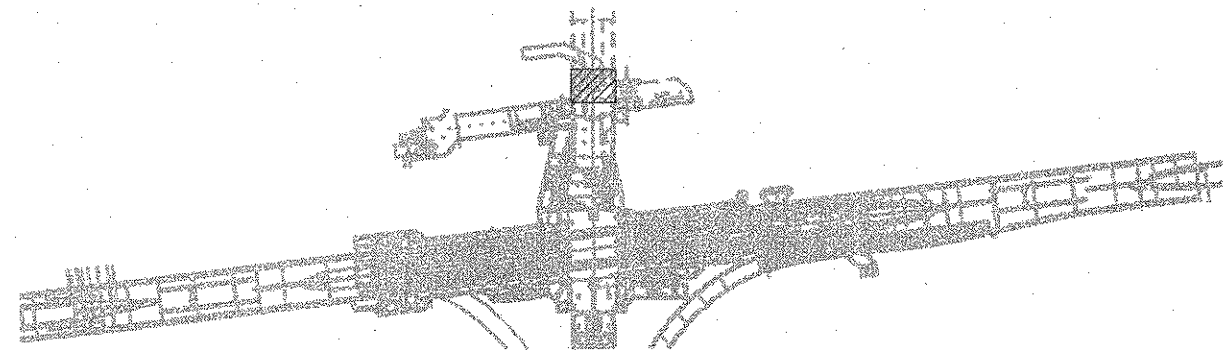
NOTES:

1. THE EXISTING SMOKE/HEAT DETECTORS IN THE SCOPE OF WORK AREA CONNECTED IN THE EXISTING FIRE ALARM LOOP #4 AS PER RECORD DRAWINGS. CONTRACTOR TO VERIFY AND CONFIRM ON SITE. COORDINATE WITH TTC FOR DISCONNECTION FROM THE EXISTING FIRE ALARM LOOP PRIOR TO DEMOLITION.
2. THE WIRING CONNECTION PATH SHOWN IS BASED ON RECORD DRAWINGS FOR REFERENCE PURPOSE. VERIFY ON SITE PRIOR TO STARTING DEMOLITION WORK. ENSURE ALL OTHER EXISTING FIRE ALARM DEVICES THAT ARE CONNECTED ON THE SAME LOOP #4 ARE NOT AFFECTED BY THIS SCOPE OF WORK. PROVIDE FIRE WATCH AS REQUIRED IF SERVICE INTERRUPTION OCCURS.
3. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



PARTIAL PLAN
CONCOURSE LEVEL DEMOLITION FIRE ALARM PLAN

KEYPLAN

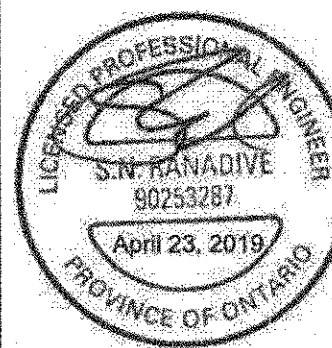


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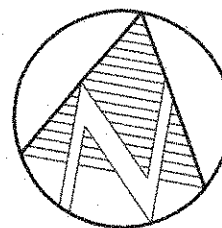
SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
FIRE ALARM DEMOLITION PLAN
CONCOURSE LEVEL

Contract: SH35-8

TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT

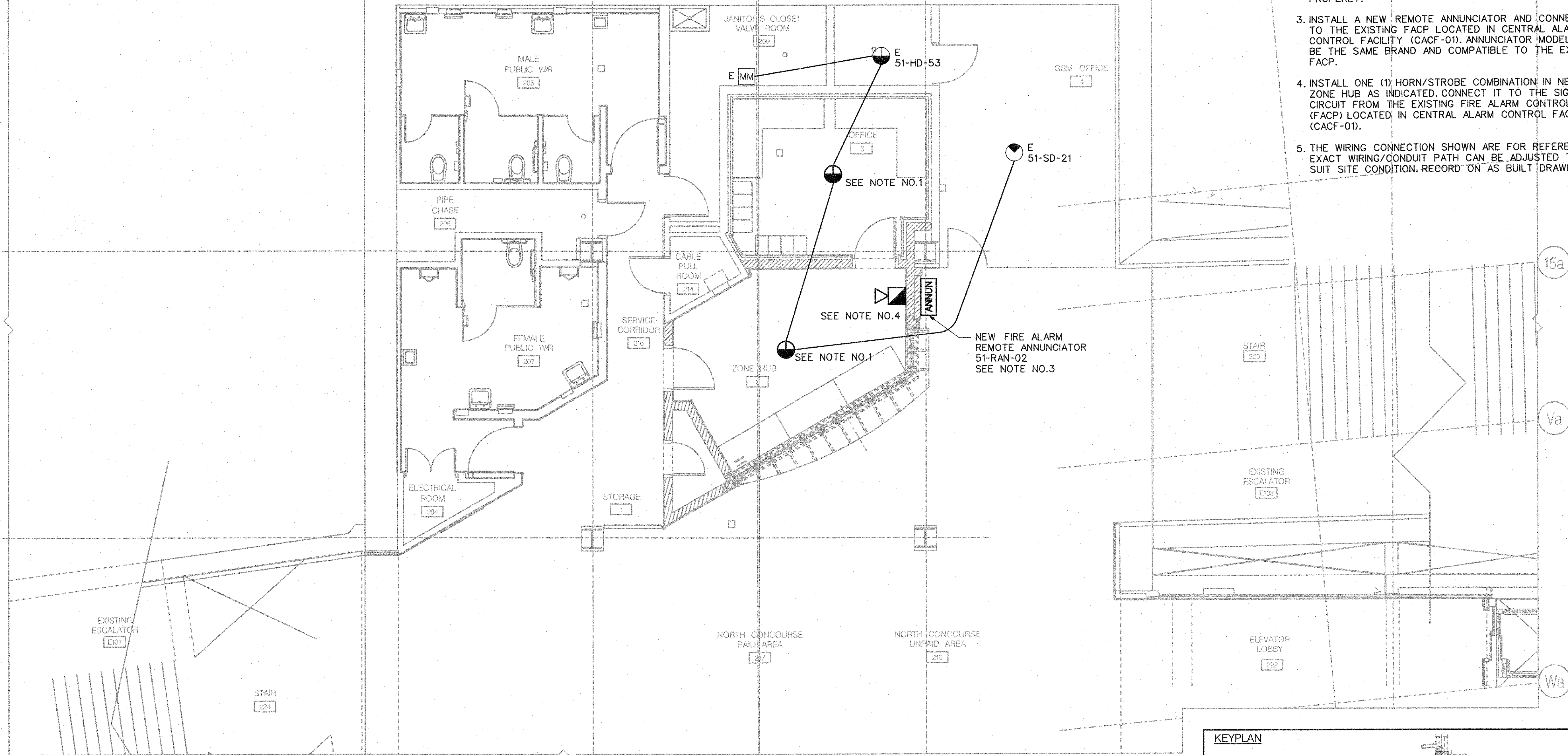
Dwg. No. SH35-8-E500 Rev. No. 053 Sheet No. 053

Plot Date: 23-APR-2019



NOTES:

1. INSTALL NEW HEAT DETECTOR AS INDICATED. WIRE THEM TO THE EXISTING FIRE ALARM LOOP #4. REUSE THE EXISTING WIRING WHERE POSSIBLE. OTHERWISE INSTALL NEW WIRING C/W CONDUITS TO SUIT. NEW HEAT DETECTOR MODEL, WIRING SIZE AND TYPE TO MATCH EXISTING.
2. ALL FIRE ALARM INSTALLATION MUST CONFORM TO THE LATEST CAN/ULC-S524 INSTALLATION OF FIRE ALARM SYSTEMS, AND SHALL BE TESTED TO ENSURE FUNCTION PROPERLY.
3. INSTALL A NEW REMOTE ANNUNCIATOR AND CONNECT IT TO THE EXISTING FACP LOCATED IN CENTRAL ALARM CONTROL FACILITY (CACF-01). ANNUNCIATOR MODEL SHALL BE THE SAME BRAND AND COMPATIBLE TO THE EXISTING FACP.
4. INSTALL ONE (1) HORN/STROBE COMBINATION IN NEW ZONE HUB AS INDICATED. CONNECT IT TO THE SIGNALING CIRCUIT FROM THE EXISTING FIRE ALARM CONTROL PANEL (FACP) LOCATED IN CENTRAL ALARM CONTROL FACILITY (CACF-01).
5. THE WIRING CONNECTION SHOWN ARE FOR REFERENCE. EXACT WIRING/CONDUIT PATH CAN BE ADJUSTED TO BEST SUIT SITE CONDITION. RECORD ON AS BUILT DRAWINGS.



PARTIAL PLAN

CONCOURSE LEVEL FIRE ALARM PLAN

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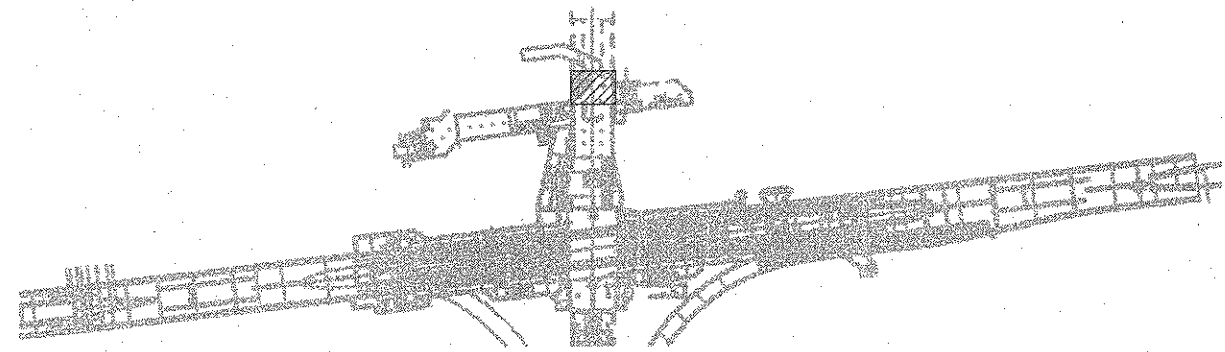
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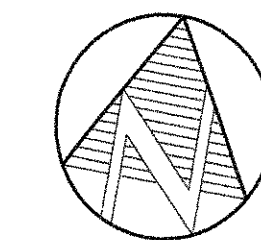


SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
FIRE ALARM PLAN
CONCOURSE LEVEL

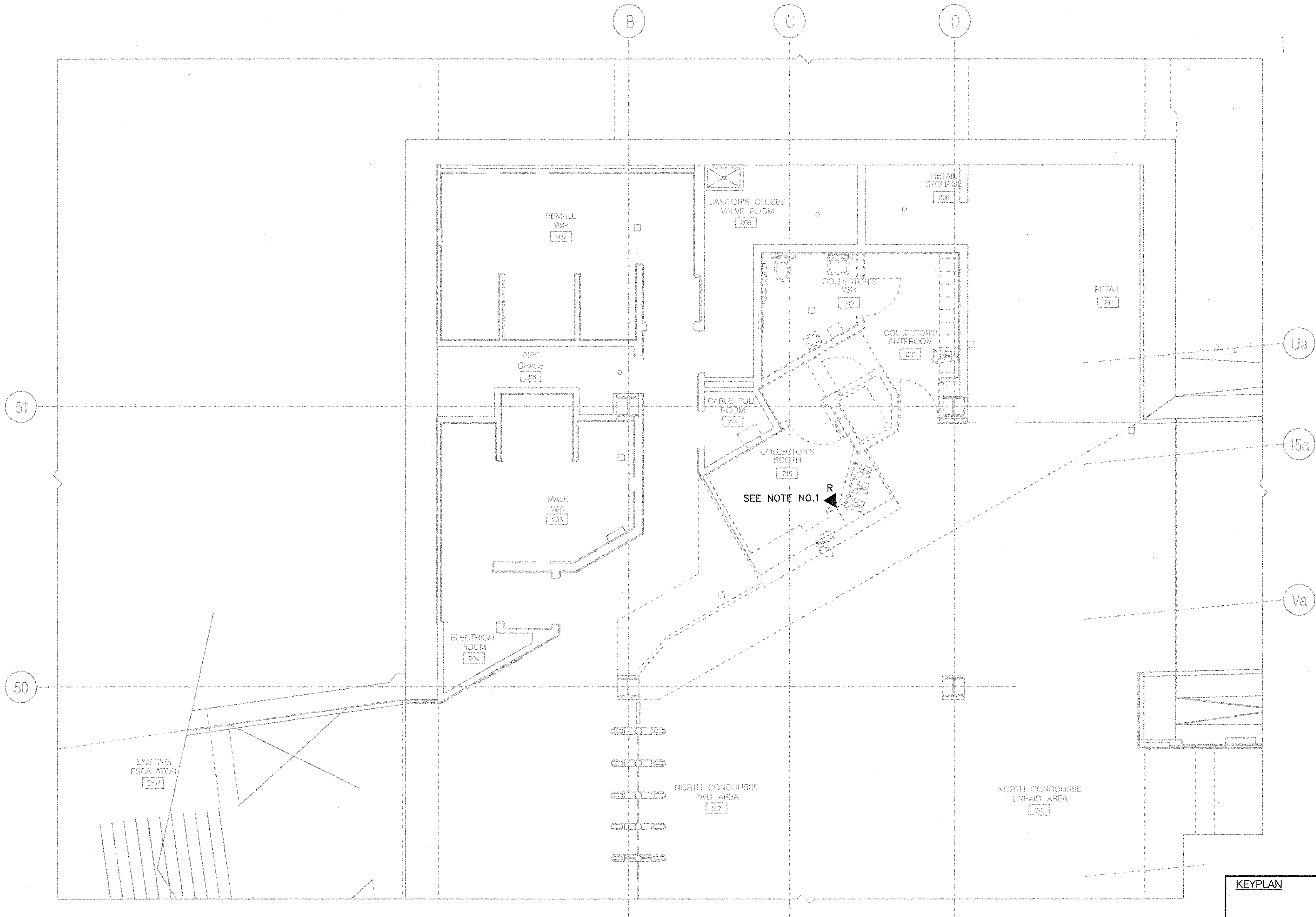
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ENGINEERING DEPARTMENT

Dwg. No. SH35-8-E501
Rev. No. 054
Plot Date: 23-APR-2019



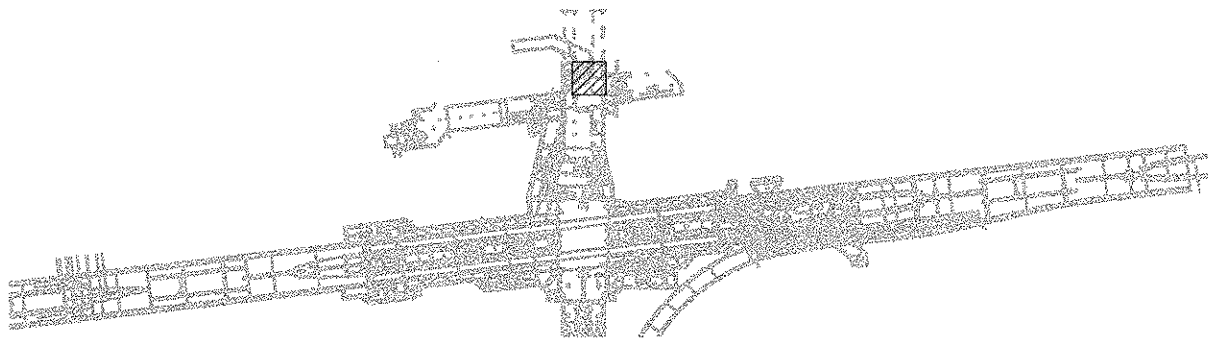
- NOTES:
1. ALL EXISTING COMMUNICATIONS SYSTEMS INCLUDING INTERCOM, SECURITY, SCADA AND MONITORING EQUIPMENT LOCATED IN COLLECTOR'S BOOTH ARE TO BE DISCONNECTED AND REMOVED BY TTC PRIOR TO THE CONSTRUCTION OF THIS CONTRACT.
 2. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



PARTIAL PLAN
CONCOURSE LEVEL DEMOLITION TELEPHONE & DATA PLAN

1
E003

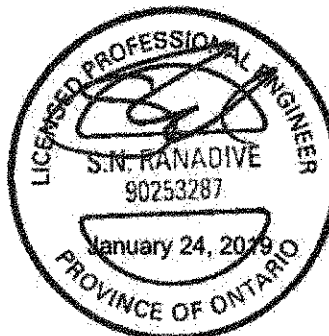
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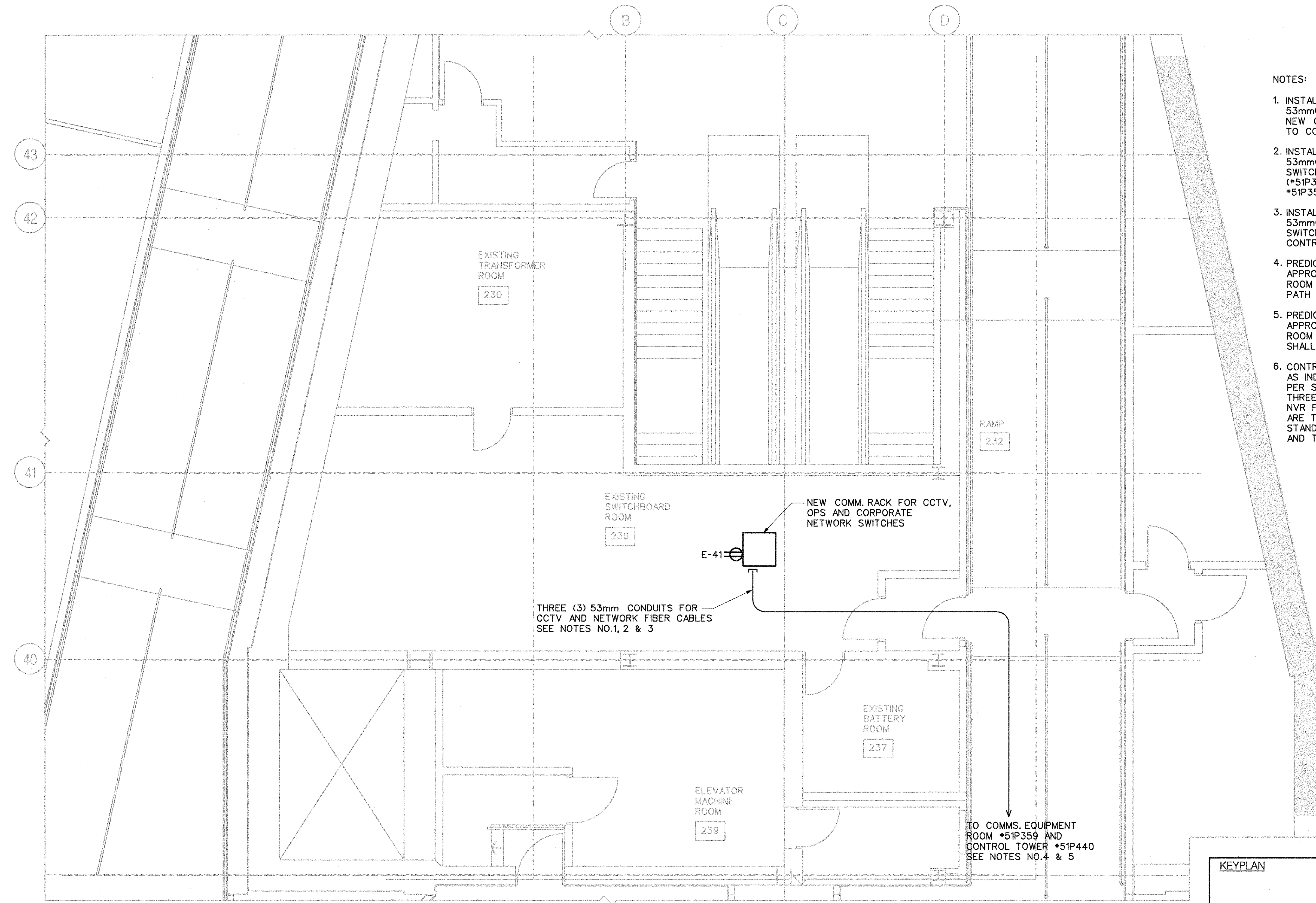
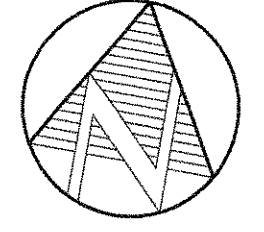
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
TELEPHONE & DATA DEMOLITION PLAN
CONCOURSE LEVEL

Contract: SH35-8
TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT
Dwg. No. SH35-8-E600 Rev. No. 055 Sheet No. 055

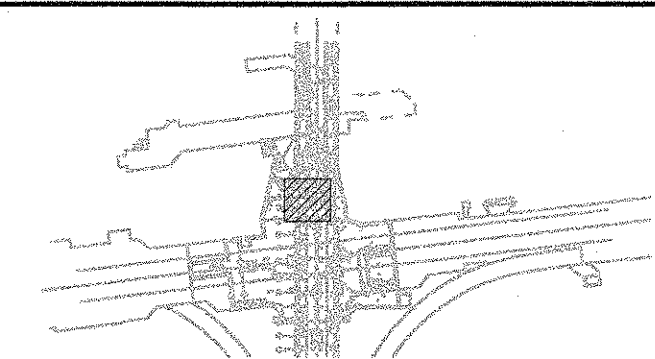


- NOTES:
1. INSTALL ONE (1) 12-STRAND MULTIMODE FIBER OPTIC CABLES IN 53mmC FOR CCTV SYSTEM FROM CCTV EQUIPMENT/SWITCH ON NEW COMM RACK LOCATED IN SWITCHBOARD ROOM 236 (*51P312) TO CCTV CABINET LOCATED IN COMMS. EQUIPMENT ROOM *51P359.
 2. INSTALL ONE (1) 12-STRAND MULTIMODE FIBER OPTIC CABLES IN 53mmC FOR OPS NETWORK, FROM NEW COMM. RACK OPS NETWORK SWITCH ON NEW COMM. RACK LOCATED IN SWITCHBOARD ROOM 236 (*51P312) TO OPS NETWORK LOCATED IN COMMS. EQUIPMENT ROOM *51P359.
 3. INSTALL ONE (1) 12-STRAND MULTIMODE FIBER OPTIC CABLES IN 53mmC FOR CORPORATE NETWORK, FROM CORPORATE NETWORK SWITCH ON NEW COMM. RACK TO CORPORATE NETWORK LOCATED IN CONTROL TOWER ROOM *51P440.
 4. PREDICTED CONDUITS ROUTING AS INDICATED IN DRAWING E003. APPROXIMATE CONDUIT LENGTH IS AROUND 150M FROM SWITCHBOARD ROOM 236 (*51P312) TO COMMS. EQUIPMENT ROOM *51P359. CONDUIT PATH SHALL BE VERIFIED ON SITE TO SUIT SITE CONDITION.
 5. PREDICTED CONDUITS ROUTING AS INDICATED IN DRAWING E003. APPROXIMATE CONDUIT LENGTH IS AROUND 100M FROM SWITCHBOARD ROOM 236 (*51P312) TO CONTROL TOWER *51P440. CONDUIT PATH SHALL BE VERIFIED ON SITE TO SUIT SITE CONDITION.
 6. CONTRACTOR TO PROVIDE AND INSTALL NEW COMM. RACK/CABINET AS INDICATED. INSTALL 120V POWER SUPPLY POWER BAR/STRIP AS PER SPECIFICATION. PATCH PANELS, NETWORK SWITCHES (TOTAL OF THREE, ONE FOR CCTV, ONE FOR OPS AND ONE FOR CORPORATE), NVR FOR CAMERAS (MODEL GENETEC SV300 UNIT SV300-8T-15-A32 ARE TO BE PROVIDED BY TTC). ALL DEVICES SHALL BE AS PER TTC STANDARDS. TTC COMMUNICATION TO COMPLETE ALL TERMINATIONS AND TO ASSIGN NEW PORT NUMBERS.

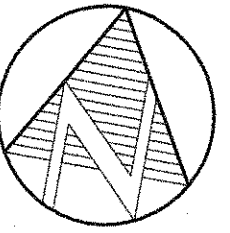
PARTIAL PLAN
CONCOURSE LEVEL SWITCHBOARD ROOM TELEPHONE & DATA

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E003

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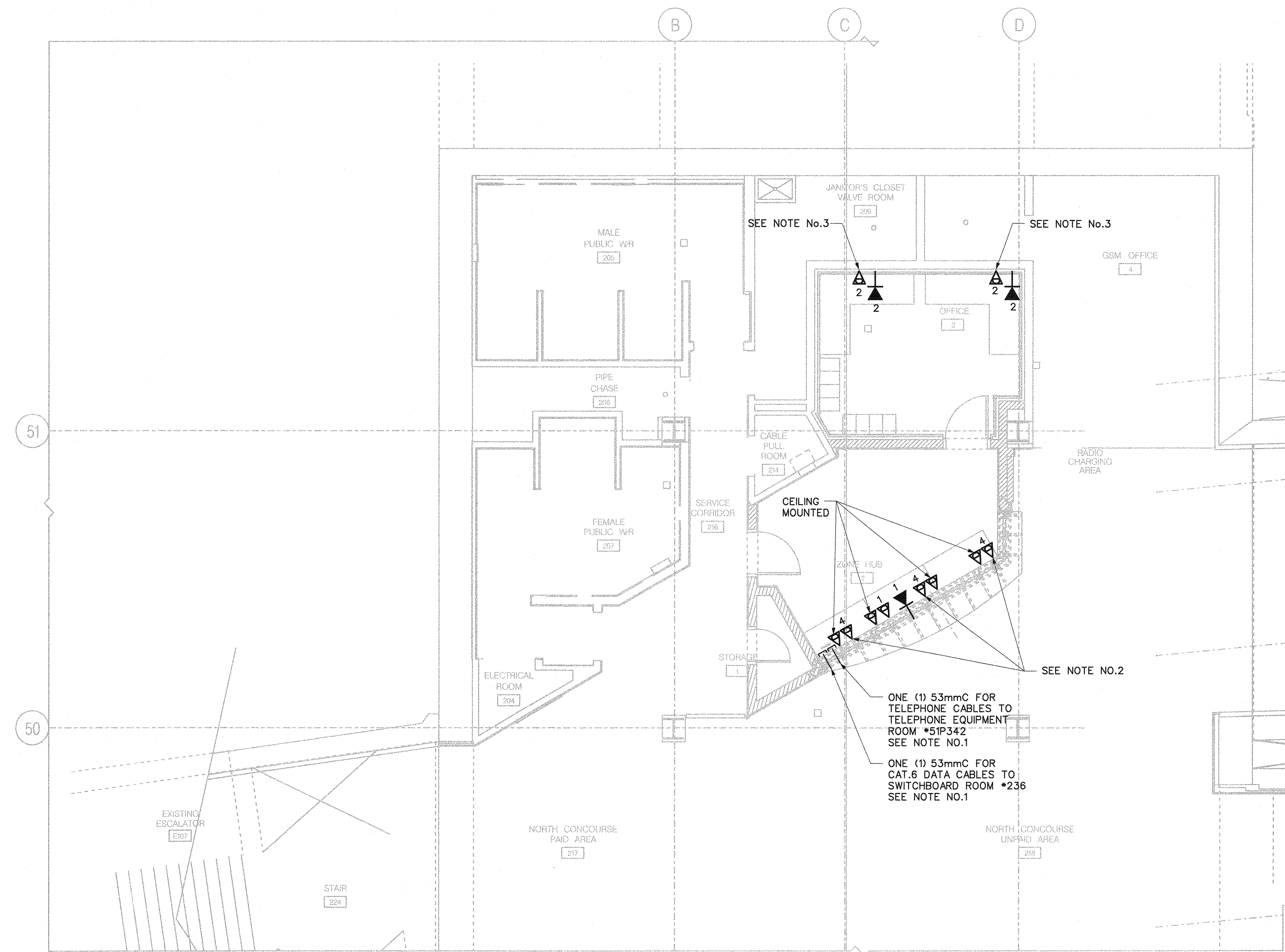


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REVISIONS	REVISIONS																										
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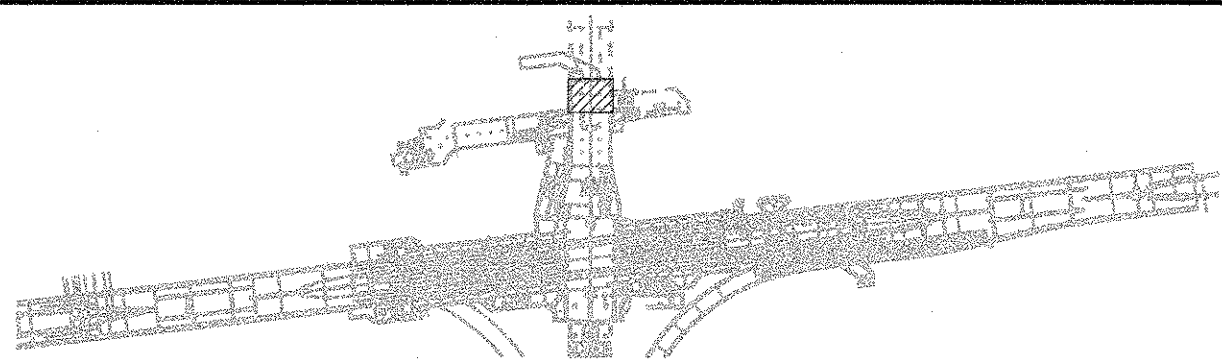
1. INSTALL ONE (1) 53mm CONDUIT C/W PULL STRING FOR TELEPHONE CABLES (BY BELL CANADA) FROM ZONE HUB CEILING SPACE TO TELEPHONE EQUIPMENT ROOM *51P342. INSTALL ONE (1) 53mm CONDUIT FOR CAT.6 DATA CABLES FROM ZONE HUB CEILING SPACE TO SWITCHBOARD ROOM *236. REFER TO DRAWING E003 FOR PREDICTED CONDUITS ROUTING AND APPROXIMATE CONDUIT LENGTH. EXACT CONDUIT PATH SHALL BE VERIFIED ON SITE TO SUIT SITE CONDITION. COORDINATE WITH TTC FOR EXACT CABLE TERMINATION POINTS AND ROOM LOCATION.
2. INSTALL FOUR (4) DATA CABLES AT EACH SERVICE COUNTER WORK STATION. TWO (2) DATA CABLES SHALL RUN TO OPS NETWORK SWITCH IN THE NEW RACK. TWO (2) DATA CABLES SHALL RUN TO CORPORATE NETWORK SWITCH IN THE NEW RACK. NEW RACK IS LOCATED IN SWITCHBOARD ROOM *236 (51P312).
3. INSTALL TWO (2) DATA CABLES AT EACH OFFICE WORK STATION. ONE (1) DATA CABLE SHALL RUN TO OPS NETWORK SWITCH. ONE (1) DATA CABLE SHALL RUN TO CORPORATE NETWORK SWITCH LOCATED IN RACK. NEW RACK LOCATION IN SWITCHBOARD ROOM *236 (51P312).



PARTIAL PLAN
CONCOURSE LEVEL TELEPHONE & DATA PLAN

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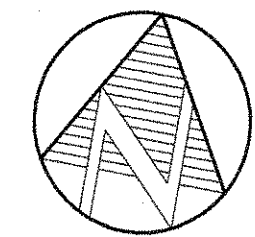
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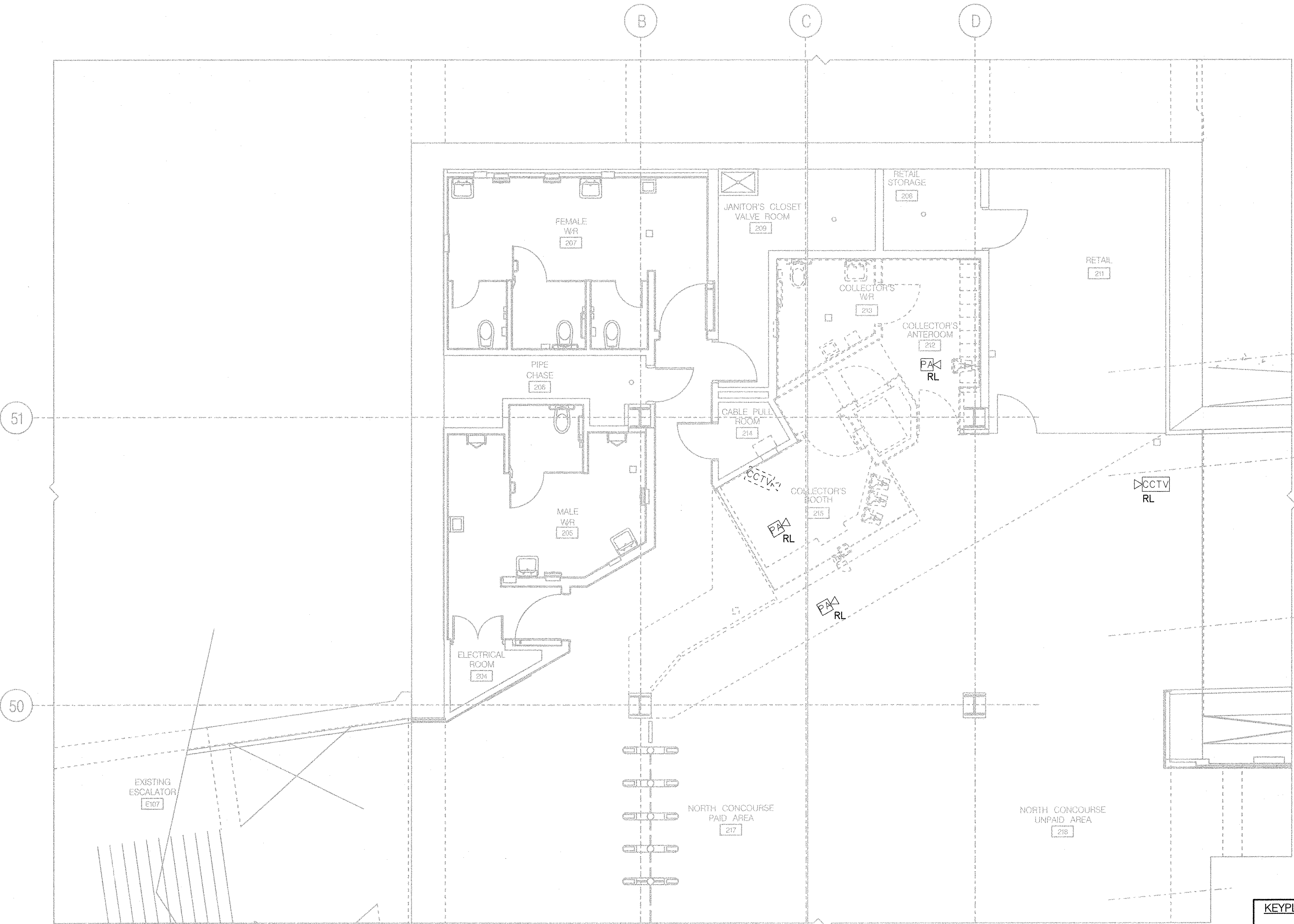
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SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
TELEPHONE & DATA PLAN
CONCOURSE LEVEL

Contract: SH35-8		
Dwg. No.	Rev. No.	Sheet No.
SH35-8-E601		056



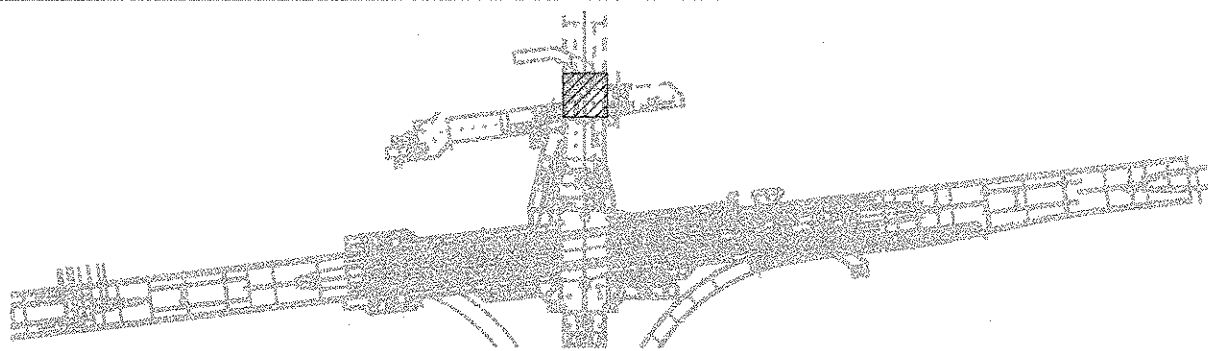
- NOTES:
1. TTC WILL REMOVE/RELOCATE ALL EXISTING CCTV CAMERAS, ASSOCIATED WIRING, CONDUITS AND BOXES AS SHOWN.
 2. PROTECT THE EXISTING PA SPEAKERS DURING CEILING DEMOLITION.
 3. REFER TO DRAWING SH35-8-E001 AND E002 FOR GENERAL NOTES, LEGEND AND SYMBOLS.



PARTIAL PLAN
CONCOURSE LEVEL DEMOLITION PA & CCTV PLAN

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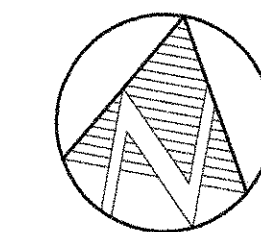
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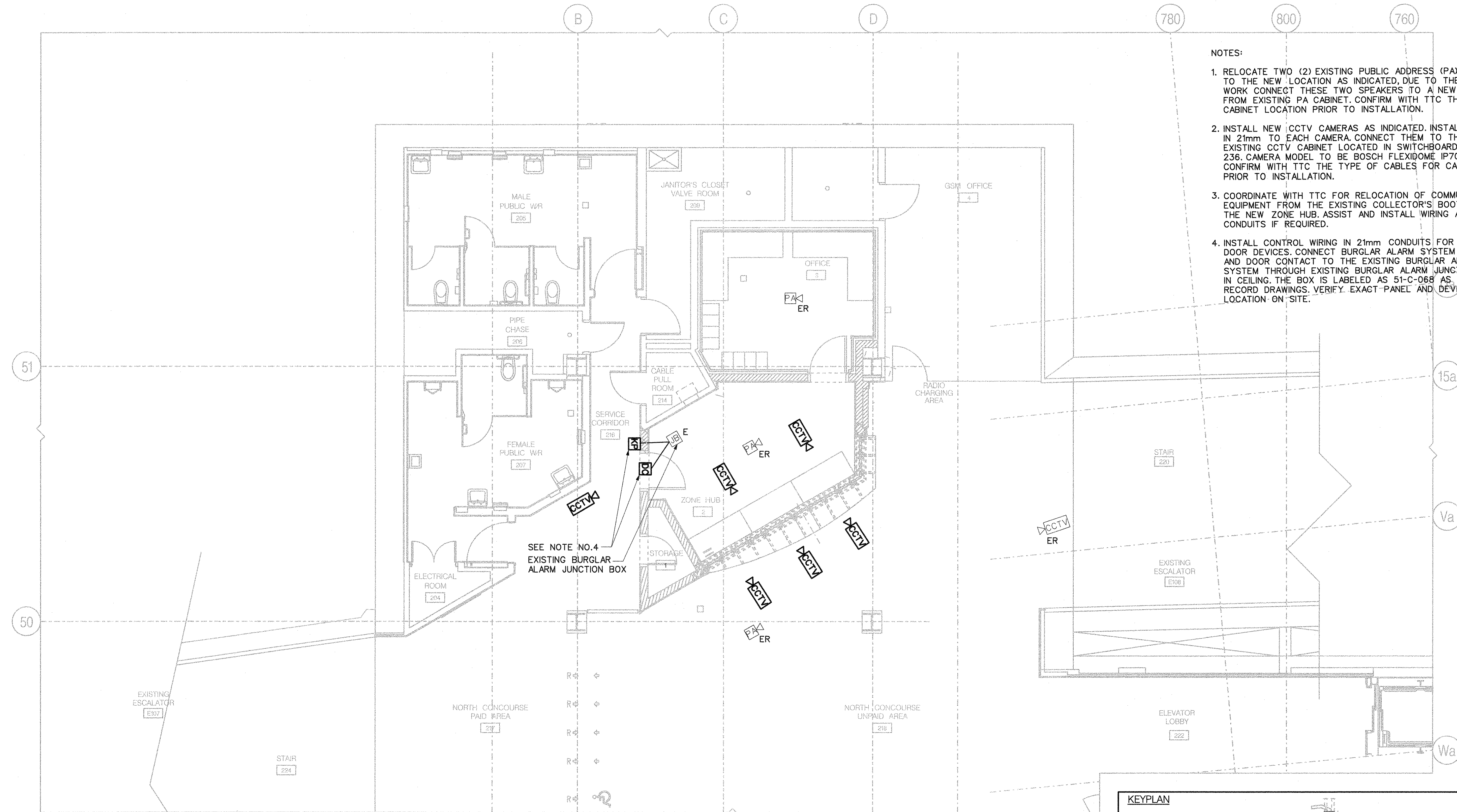
SHEPPARD STATION
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AND ZONE HUB
PA & CCTV DEMOLITION PLAN
CONCOURSE LEVEL

Contract: SH35-8
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT
Dwg. No. SH35-8-E650
Rev. No.
Sheet No. 057



NOTES:

1. RELOCATE TWO (2) EXISTING PUBLIC ADDRESS (PA) SPEAKERS TO THE NEW LOCATION AS INDICATED, DUE TO THE CEILING WORK CONNECT THESE TWO SPEAKERS TO A NEW CIRCUIT FROM EXISTING PA CABINET. CONFIRM WITH TTC THE EXACT CABINET LOCATION PRIOR TO INSTALLATION.
2. INSTALL NEW CCTV CAMERAS AS INDICATED. INSTALL CABLE IN 21mm TO EACH CAMERA. CONNECT THEM TO THE EXISTING CCTV CABINET LOCATED IN SWITCHBOARD ROOM 236. CAMERA MODEL TO BE BOSCH FLEXIDOME IP700VR. CONFIRM WITH TTC THE TYPE OF CABLES FOR CAMERA PRIOR TO INSTALLATION.
3. COORDINATE WITH TTC FOR RELOCATION OF COMMUNICATIONS EQUIPMENT FROM THE EXISTING COLLECTOR'S BOOTH TO THE NEW ZONE HUB. ASSIST AND INSTALL WIRING AND CONDUITS IF REQUIRED.
4. INSTALL CONTROL WIRING IN 21mm CONDUITS FOR SECURITY DOOR DEVICES. CONNECT BURGLAR ALARM SYSTEM KEYPAD AND DOOR CONTACT TO THE EXISTING BURGLAR ALARM SYSTEM THROUGH EXISTING BURGLAR ALARM JUNCTION BOX IN CEILING. THE BOX IS LABELED AS 51-C-068 AS PER RECORD DRAWINGS. VERIFY EXACT PANEL AND DEVICES LOCATION ON SITE.

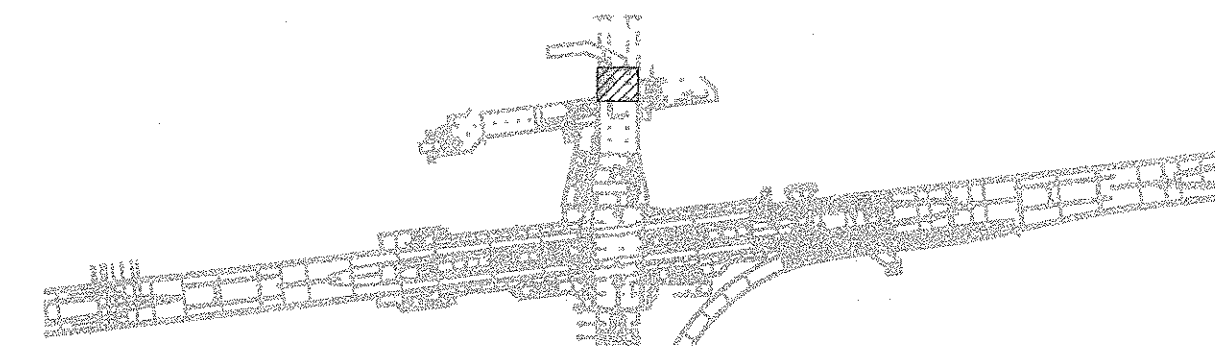


PARTIAL PLAN

CONCOURSE LEVEL PA & CCTV PLAN

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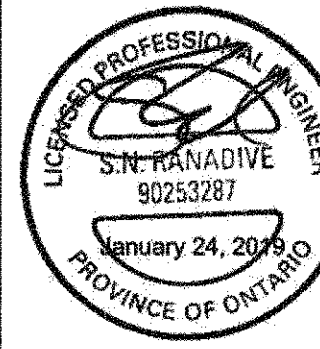


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CORRECT	M. LI	2018/11/27
SCALE	0 1 2m	2018/11/28

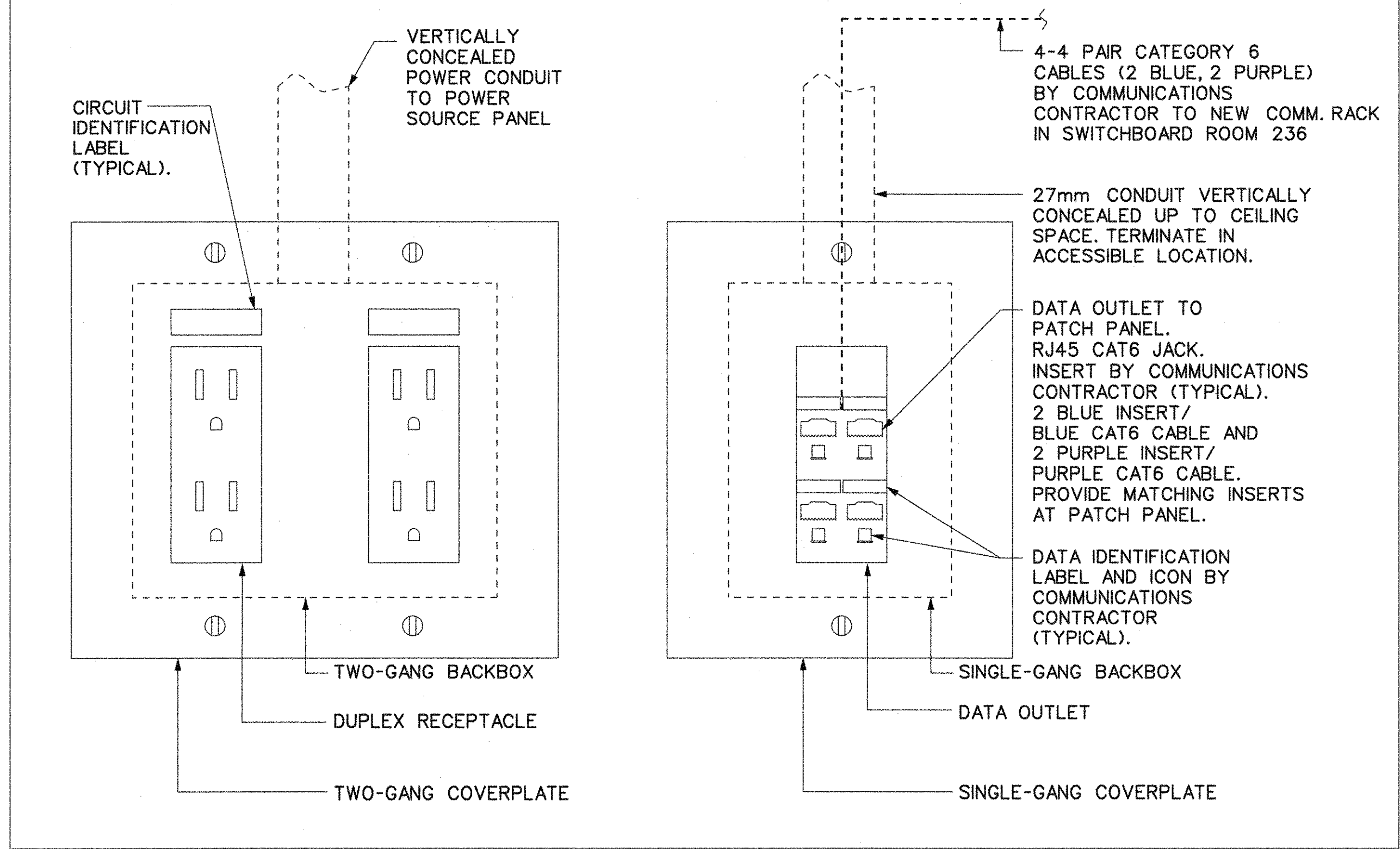
SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
PA & CCTV PLAN
CONCOURSE LEVEL

Contract: SH35-8

TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT

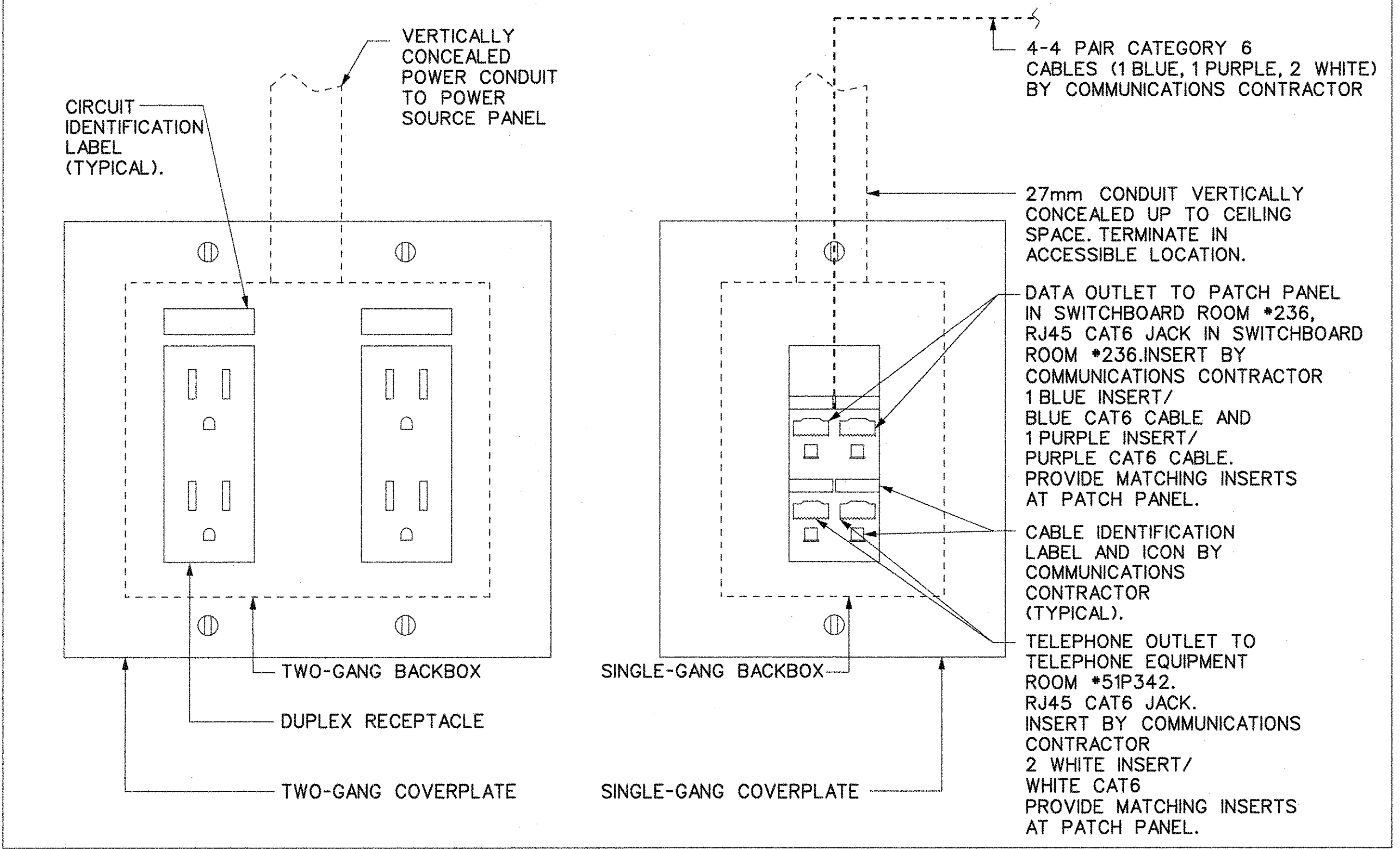
Dwg. No. SH35-8-E651
Rev. No. 058
Sheet No. 058

Plot Date: 25-JAN-2019



DETAIL
SERVICE COUNTER POWER/DATA OUTLETS DETAIL

1
E800



DETAIL
OFFICE WORKSTATION POWER/DATA/TELEPHONE
OUTLET DETAIL

2
E800

REVISIONS	REVISIONS

BID
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ARCHITECTS ENGINEERS PLANNERS
NORR Limited
An Ingenium Group Company
175 Bloor St. East
North Tower, 15th Floor
Toronto, ON, Canada M4W 3R8
www.norr.com



DRAWN	M. KUTA	YYYY/MM/DD	2017/11/20
CHECKED	M. LI	2018/11/27	
CORRECT	M. LI	2018/11/28	
SCALE	N.T.S.		

SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
ELECTRICAL DETAILS
POWER & DATA /OUTLETS

Contract: SH35-8		
		
TORONTO TRANSIT COMMISSION ENGINEERING DEPARTMENT		
Dwg. No. SH35-8-E800	Rev. No.	Sheet No. 059

PANEL 1C1			TYPE NEMA 1			10KAIC		
FEEDER 4*3/0+G			MAIN BRK. 225A					
LOCATION CONCOURSE LEVEL ZONE HUB								
DESCRIPTION	LOAD K.W.	BKR SIZE	CIRCUIT	BKR SIZE	LOAD K.W.	DESCRIPTION		
OFFICE WORK STATION RECEPTACLE	300	15A, 1P	1 — 2	15A, 1P		DOMESTIC HOT WATER RECIRCULATION PUMP		
OFFICE WORK STATION RECEPTACLE	300	15A, 1P	3 — 4	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
OFFICE WORK STATION RECEPTACLE	300	15A, 1P	5 — 6	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
OFFICE WORK STATION RECEPTACLE	300	15A, 1P	7 — 8	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
OFFICE EAST & WEST WALL RECEPTACLES	400	15A, 1P	9 — 10	15A, 1P	500	ZONE HUB MONITORS		
OFFICE SOUTH WALL RECEPTACLES	400	15A, 1P	11 — 12	15A, 1P	500	ZONE HUB MONITORS		
ZONE HUB NORTH & EAST WALL RECEPTACLES	400	15A, 1P	13 — 14	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
ZONE HUB & STORAGE RM RECEPTACLES	400	15A, 1P	15 — 16	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
LIGHTING	200	15A, 1P	17 — 18	15A, 1P	300	ZONE HUB SERVICE COUNTER RECEPTACLE		
SPARE		15A, 1P	19 — 20	15A, 1P		SPARE		
SPARE		20A, 1P	21 — 22	15A, 1P		SPARE		
SPARE		20A, 1P	23 — 24	15A, 1P		SPARE		
SPARE		20A, 1P	25 — 26	15A, 1P		SPARE		
			27 — 28	15A, 1P		SPARE		
			29 — 30	15A, 1P		SPARE		
			31 — 32	15A, 1P		SPARE		
			33 — 34	15A, 1P		SPARE		
			35 — 36					
			37 — 38					
			39 — 40					
			41 — 42					
			43 — 44					
			45 — 46					
			47 — 48					
			49 — 50					
TOTALS		A=xxx B=yyy C=zzz						
MAINS 225 AMPS 120/208 VOLTS 3 PHASE 4 WIRE								
MOUNTING SURFACE ENTRY TOP								
FED FROM EXISTING MAIN SWITCHBOARD IN SWITCHBOARD ROOM 236								

SCHEDULE

PANEL SCHEDULE

1
E900

TYPE	LAMPING	LOCATION	DESCRIPTION	MANUFACTURER
F1	LED	VARIES SEE PLANS	CEILING RECESSED 600mmX1200mm, LED LAMP GLOSS LENSES AND TO BE SEALED AND GASKETED FIXTURES. ROUGH SERVICE TROFFER, ELECTRONIC DRIVE OPERATING AT 120V/AC-DC DRIVE	ACUITY BRANDS/KURTZON VL-R-3-2X4-1/LEDR-840-UNV/125VDC -TG-MODKLENS-2X0.75 END KO-WHT
C1	LED	VARIES SEE PLANS	CEILING RECESSED 150mm LED LAMP DOWN LIGHTING, WITH CLEAR GASKETED GLASS LENS, ELECTRONIC DRIVE OPERATING AT 120V/AC DRIVE	LITHONIA OR APPROVED EQUAL
EXIT SIGN	2.5W LED	VARIES SEE PLANS	DIE-CAST ALUMINUM, BRUSH ALUMINUM FINISH, LED RUNNING MAN TYPE C/W ARROWS FOR DIRECTIONS, SINGLE OR DOUBLE FACE AS INDICATED, 120V/AC-DC DRIVE INPUT, SELF-POWERED FOR AT LEAST TWO HOURS, UNIVERSAL MOUNT, VANDAL RESISTANT SHIELD.	LUMACELL LA SERIES OR APPROVED EQUAL

SCHEDULE

LIGHTING FIXTURE SCHEDULE

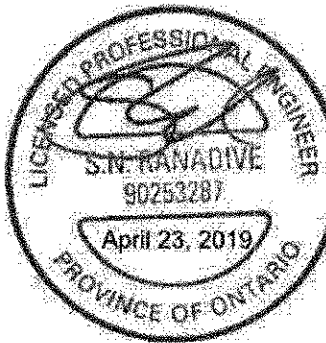
2
E900

REVISIONS	REVISIONS
△	△
△	△
△	△

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CORRECT	M. LI		2018/11/28
SCALE	N.T.S.		

SHEPPARD STATION
STATION MANAGERS OFFICE
AND ZONE HUB
SCHEDULES
ELECTRICAL PANEL & LIGHTING FIXTURES

Contract: SH35-8



TORONTO TRANSIT COMMISSION
ENGINEERING DEPARTMENT

Dwg. No. SH35-8-E900
Rev. No.
Sheet No. 060

Plot Date: 23-APR-2019