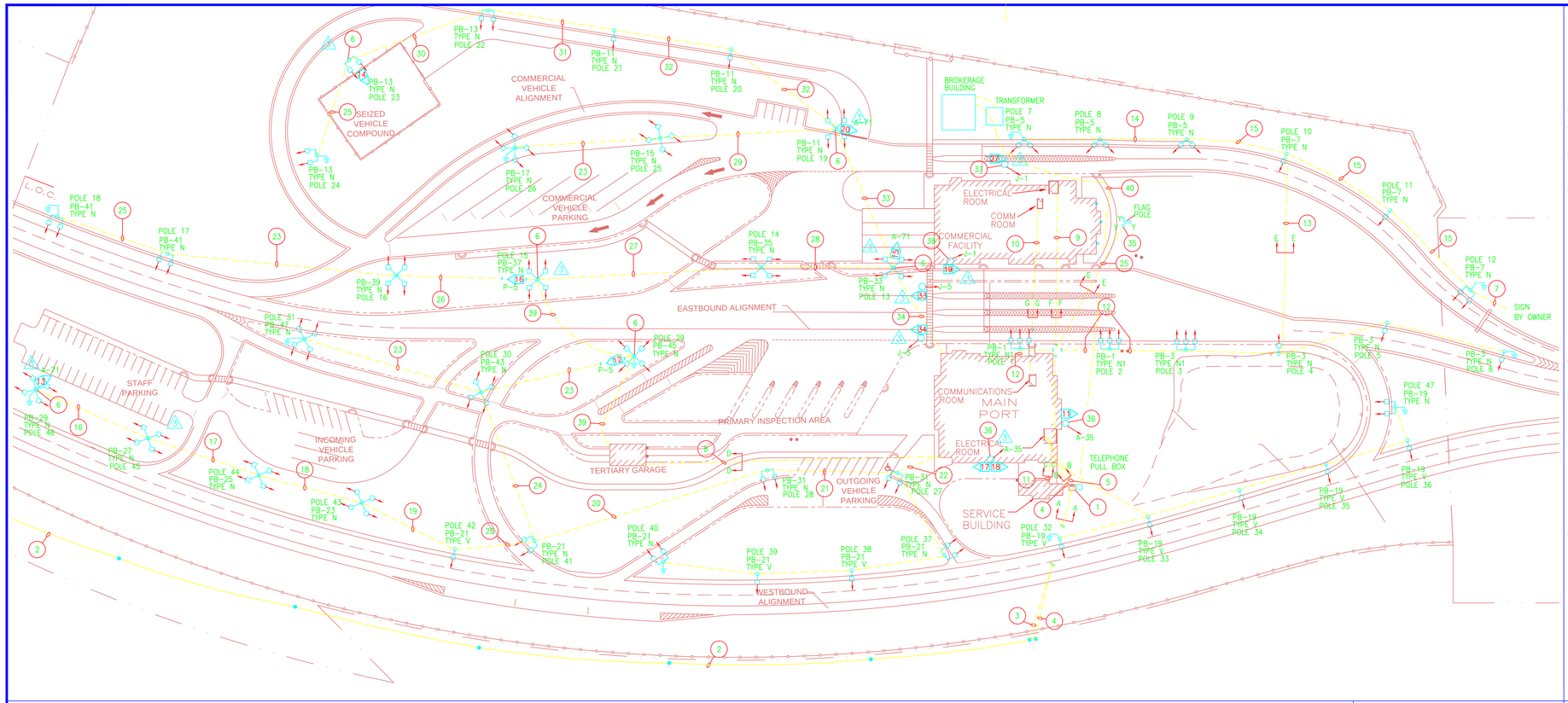
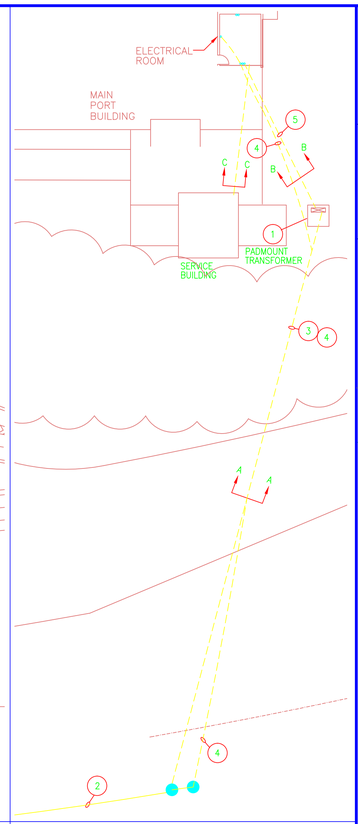


SITE PLAN

SCALE : 1:750

0m 10m 20m 30m 40m 50m 60m 70m 80m 90m 100m



ENLARGED PLAN OF INCOMING SERVICES

SCALE: 1:250

0m 5m 10m 15m 20m 25m

SYMBOL	LEGEND
DC	DIGITAL COMMUNICATOR.
BC	DIESEL GENERATOR BATTERY CHARGER.
BMS	BUILDING MANAGEMENT SYSTEM SUPPLIED AND INSTALLED BY DIV.15, 120V WIRING BY DIV.16.
DMS	CUSTOMER'S DIGITAL METERING SYSTEM. CAT 5E WIRING BETWEEN METERING SYSTEM & BUILDING MANAGEMENT SYSTEM BY DIV.16. WIRING & TERMINATIONS SHALL BE CARRIED OUT BY A NORDX CERTIFIED HORIZONTAL CABLING SYSTEM INSTALLER.
	DUAL CHANNEL RECESSED INFLOOR POWER AND COMMUNICATIONS DISTRIBUTION SYSTEM.
	PARTITIONED SOLID BOTTOM CABLE TRAY FOR TEL/DATA CABLES. C/W #6 AWG BARE GROUNDING WIRE, BONDED EVERY 15M. 3M OF GROUND WIRE TO BE COILED IN COMMUNICATIONS ROOM.
1	SECURITY SYSTEM CONTROL PANEL SUPPLIED, INSTALLED AND WIRED BY DIV.16.
2	SECURITY SYSTEM TRANSFER DEVICE/CARD READER SUPPLIED, INSTALLED AND WIRED BY DIV. 16.
3	SECURITY SYSTEM DOOR CONTACTS SUPPLIED, & INSTALLED BY DIV.8, WIRED BY DIV.16.
4	ELECTRIC STRIKE SUPPLIED AND INSTALLED BY DIV.8, WIRED BY DIV.16.
M	MOTION DETECTOR SUPPLIED, INSTALLED & WIRED BY THE OWNER, 25mm EMPTY CONDUIT SYSTEM BY DIV.16.
C	DOOR CONTROL MODULE.
P	HANDICAP ASSISTANCE PULLCORD STATION, MTD 2134mm AFF.
H	HANDICAP ASSISTANCE HORN/STROBE ALARM.
A	DIESEL GENERATOR ALARM PULLSTATION.
400KVA G	400KVA, 320KW, 347/600V, 3ø, 4W DIESEL GENERATOR.
HD	ELECTRIC HAND DRYER.
	19mm x 3m COPPER GROUND ROD.
DL	DOCK LEVELLER CONTROLLER SUPPLIED & INSTALLED BY DIV.8 CONTRACTOR, WIRED BY DIV.16.
TP	TRAP PRIMER SUPPLIED & INSTALLED BY DIV.15, WIRED BY DIV.16.
	TELEPHONE/DATA PLYWOOD BACKBOARD 2440H x 200mm x WIDTH AS INDICATED PAINTED GREY WITH FIRE RETARDANT PAINT BY GENERAL CONTRACTOR.
S	TEMPERATURE SENSOR BY DIV.15. OUTLET BOX AND 21mm EMT TO CEILING SPACE BY DIV.16.
B	DISTRESS SYSTEM BELL.
D	DISTRESS SYSTEM MAIN PANEL.
●	DISTRESS PUSHBUTTON ALARM.
TEL R	TELEPHONE ENTRANCE PANEL BY ALIANT. 'R' – TELELEPHONE BIX BLOCK BY DIV.16.
CP-1	MECHANICAL EQUIPMENT, 'CP=1'-EQUIPMENT LABEL. SEE SCHEDULE ON E9 FOR DETAILS.
M	WATER METER SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16.
CO	CO/NO2 DETECTOR SUPPLIED AND INSTALLED BY DIV.15, WIRED BY DIV.16.

SYMBOL	LEGEND
D	DOOR OPERATOR PUSH BUTTON STATION SUPPLIED & INSTALLED BY DOOR CONTRACTOR, EMT RACEWAY & WIRING BY DIV.16., MTD. 1000mm A.F. COORDINATE BACK BOX REQUIRMENTS AND MOUNTING HEIGHTS WITH DIV. 8. CONTRACTOR.
T R	LINE VOLTAGE THERMOSTAT. R=REVERSE ACTING.
1	MAIN FIRE ALARM PANEL.
2 1	FIRE ALARM PULL STATION; 1=ROOM NUMBER.
3 1-2	FIRE ALARM HORN C/W FLASHING LIGHT; 1=ZONE NUMBER; 2=DEVICE NUMBER.
4 3	STROBE LIGHT WALL MOUNTED 2250mm A.F.; 3= ZONE NUMBER.
C 5 1	IONIZATION TYPE SMOKE DETECTOR; 1=ROOM NUMBER; 'C'=CONFINEMENT RATED.
6	COMBINATION THERMAL DETECTOR; 1=ROOM.
7 1-2	END OF LINE RESISTOR; 1=ZONE NUMBER; 2=DEVICE NUMBER.
8	ANNUNCIATOR PANEL.
P,A	TELEPHONE WALL OUTLET MOUNTED 450mm A.F. C/W BLANK STAINLESS STEEL COVERPLATE. 21mm EMT CONDUIT C/W FIXED PLASTIC BUSHINGS AT ENDS, TO BE INSTALLED FROM 103mm x 103mm WALL BOX C/W DUPLEX FACEPLATE TO CEILING SPACE. J=HOOKS TO BE INSTALLED EVERY 1.5M FROM CONDUIT TO CABLETRAY. J=HOOK RUN NOT TO EXCEED 6m. PULLCORD TO BE PROVIDED FROM WALL BOX TO CABLETRAY. WIRING, HARDWARE TERMINATION AND TESTING BY OWNER. 'P'=PAYPHONE MTD. 1000mm A.F. 'A'=MTD. 1000mm A.F. OR 200mm ABOVE COUNTER OR IN BACKSPLASH.
A,4	DATA WALL OUTLET MOUNTED 450mm A.F. C/W BLANK STAINLESS STEEL COVERPLATE. 21mm EMT CONDUIT C/W FIXED PLASTIC BUSHINGS AT ENDS, TO BE INSTALLED FROM 103mm x 103mm WALL BOX C/W DUPLEX FACEPLATE TO CEILING SPACE. J=HOOKS TO BE INSTALLED EVERY 1.5M FROM CONDUIT TO CABLETRAY. J=HOOK RUN NOT TO EXCEED 6m. PULLCORD TO BE PROVIDED FROM WALL BOX TO CABLETRAY. WIRING, HARDWARE TERMINATION AND TESTING BY OWNER. 'A'=MTD. 1000mm A.F. OR 200mm ABOVE COUNTER OR IN BACKSPLASH. '4'=4 OUTLETS.
F,A	DATA WALL OUTLET MOUNTED 450mm A.F. C/W BLANK STAINLESS STEEL COVERPLATE. 21mm EMT CONDUIT C/W FIXED PLASTIC BUSHINGS AT ENDS, TO BE INSTALLED FROM 103mm x 103mm WALL BOX C/W DUPLEX FACEPLATE. TO CEILING SPACE. J=HOOKS TO BE INSTALLED EVERY 1.5M FROM CONDUIT TO CABLETRAY. J=HOOK RUN NOT TO EXCEED 6m. PULLCORD TO BE PROVIDED FROM WALL BOX TO CABLETRAY. WIRING, HARDWARE TERMINATION AND TESTING BY OWNER. 'A'=MTD. 1000mm A.F. OR 200mm ABOVE COUNTER OR IN BACKSPLASH. 'F'=FLOOR MTD. IN RECESSED OUTLET BOX.
2	SURVEILLANCE CAMERA SUPPLIED, INSTALLED & WIRED BY THE OWNER, EMPTY CONDUIT SYSTEM BY DIV.16. INSTALL 25mm EMT C/W PULL ROPE FROM 100x100mm OUTLET BOX TO ROOM M141 ROOM AS INDICATED. EXACT LOCATION TO BE CONFIRMED WITH CBSA PRIOR TO ROUGH IN.
E	SURVEILLANCE/RECORDING EQUIPMENT SUPPLIED, INSTALLED & WIRED BY THE OWNER, 25mm EMPTY CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS, BY DIV.16.
M	SURVEILLANCE/MONITORING EQUIPMENT SUPPLIED, INSTALLED & WIRED BY THE OWNER, EMPTY CONDUIT SYSTEM AS INDICATED ON THE DRAWINGS, BY DIV.16.
OD	OVERHEAD DOOR CONTROLLER SUPPLIED & INSTALLED BY DIV.8 CONTRACTOR, WIRED BY DIV.16.
	FLUSH MOUNTED FLOORBOX c/w POWER, TELEPHONE AND COMMUNICATIONS SERVICES.
A	PORT RUNNING ALARM PUSHBUTTON.
S	PORT RUNNING SIREN.

SYMBOL	LEGEND
8 E A H,W,G,C,J	LIGHT FIXTURE. LETTER INDICATES TYPE IN FIXTURE SCHEDULE; A–WALL MOUNTED; C–WIRE GUARD; C–CEILING MOUNTED; 2 – 2 SIDED; ARROW INDICATES AIMING DIRECTION. H–MOUNTED 3.8M A.F.
	12.2M STEEL LIGHTING POLE C/W TYPE 'N' FIXTURES OR 7.6M STEEL LIGHTING POLE C/W TYPE 'V' FIXTURE, AS INDICATED. ARROW INDICATES CENTER FRONT OF FIXTURE.
$ 3,4,a,E	SINGLE POLE SWITCH; 120V, 15A, MTD. 1000mm A.F. NUMBER OF STROKES INDICATES NUMBER OF SWITCHES; 3–3 WAY; 4–4 WAY; a–LIGHT SWITCHED; E=EMERGENCY SHUT OFF SWITCH FOR GAS.
PC	LIGHTING PHOTOELECTRIC CELL. (2 POLE)
	GANGED LIGHT SWITCHES.
4 2#10	HOME RUN; CROSS HATCHES OR NUMBER INDICATE NUMBER OF WIRES, NO CROSS HATCHES OR NUMBER INDICATE 2#12 RW90 IN 12mm EMT FOR LIGHTING AND RECEPTACLES AND 2#12 IN 12mm EMT FOR POWER AND HEATING. 2#10 –INDICATES 2#10 WIRES IN CONDUIT SIZED TO C.E.C.
	WIRING AND CONDUIT OR DUCT UNDER SLAB OR UNDERGROUND. 2#12 IN 1" PVC UNLESS OTHERWISE INDICATED.
	FLEXIBLE DROP TO LIGHT FIXTURE FROM CEILING BOX.
	NB POWER WOOD POLE.
A,W,50,G,C,F,20	120V 15A DUPLEX RECEPTACLE MOUNTED 450mm A.F.; A–MOUNTED 200mm ABOVE COUNTER OR IN BACKSPLASH; W–WEATHERPROOF; 50–50A; G–GROUND FAULT; C–MOUNTED 2285mm A.F.; 20–NEMA 5–20RA; I–ISOLATED GROUND; F–FLOOR MOUNTED IN RECESSED OUTLET BOX; D– MOUNTED AT TOP OF DOOR ON WALL; H–MOUNTED IN CEILING; T–TWISTLOCK; 30–30A.
	2–DUPLEX RECEPTACLES IN 2–GANG BOX.
D	SINGLE RECEPTACLE; D=DRINKING FOUNTAIN.
	CONNECTION TO DIRECT CONNECTED EQUIPMENT.
	JUNCTION OR PULL BOX SIZED TO C.E.C. REQUIREMENTS.
	SURFACE MOUNTED ELECTRICAL PANEL.
	RECESSED MOUNTED ELECTRICAL PANEL.
30 30/F A,20,W	DISCONNECT SWITCH; 30 –SWITCH SIZE; 20–FUSE SIZE; W–INDICATES WEATHERPROOF; A–AUXILIARY CONTACTS.
	SELF REGULATING HEAT TRACING CABLE.
	COMBINATION TYPE MAGNETIC MOTOR STARTER; 30– SWITCH SIZE.
	MAGNETIC MOTOR STARTER.
	MANUAL MOTOR STARTER.
1/2	SINGLE PHASE MOTOR; 1/2–INDICATES HORSEPOWER, 120V, 1ø.
15	THREE PHASE MOTOR; 15–INDICATES HORSEPOWER,600V, 3ø.
45 KVA	DRY TYPE TRANSFORMER; 45KVA–INDICATES SIZE.
M	UTILITY METERING CABINET.
MD	MOTORIZED DAMPER SUPPLIED, INSTALLED AND WIRED ON 24V SIDE BY DIV.15, 120V WIRING BY DIV.16.
C	ELECTROMAGNETIC LIGHTING CONTACTOR C/W 120V CONTROL TRANSFORMER. NUMBER OF POLES AS INDICATED.
GND	COPPER GROUND BAR FOR COMMUNICATIONS.
TX	120–24V TRANSFORMER (CONTROL) BY DIV.16.
R	CONTROL RELAY C/W 120V COIL.

SYMBOL	LEGEND
LV-R	LOW VOLTAGE WALL SWITCH SENSOR WITH AUX RELAY.
LV-PDT -R	LOW VOLTAGE WALL DUAL TECHNOLOGY SWITCH SENSOR WITH AUX RELAY.
E9	CEILING MOUNT SENSOR.
E9-R	CEILING MOUNT SENSOR WITH ISOLATED RELAY.
E48	CEILING MOUNT SENSOR EXTENDED RANGE.
E48-R	CEILING MOUNT SENSOR WITH AUXILIARY RELAY.
CP	CEILING MOUNT SENSOR; MICROPHONIC–DUAL TECHNOLOGY.
CP-LT	CEILING MOUNT SENSOR; MICROPHONIC–DUAL TECHNOLOGY W/LOW TEMP/HIGH HUMIDITY OPTION.
CP-R	CEILING MOUNT SENSOR; MICROPHONICS; DUAL TECHNOLOGY WITH ISOLATED RELAY.
ZC3	ZONE CONTROLLER (WALL CONTROLLER), 3–ZONE, CONFIGURABLE
DSC	SCENE CONTROLLER (WALL CONTROLLER), 3–ZONE, 3–SCENE, CONFIGURABLE
PP	POWER PACK, INTERFACE W/ENCELIUM IOM.
PS	PHOTO SENSOR, CEILING MOUNT, INTERFACE W/ENCELIUM IOM. NOTE: SENSORS MUST BE LOCATED ACCORDING TO FURNITURE LAYOUT. CONSULT ENCELIUM TECHNOLOGIES INC.
	IOM (IO MODULE)

NOTES

22. 2#6, 8#8, 4#10, 6#12 in 53mm PVC.
23. 2#8 IN 27mm PVC.
24. 2#10, 4#8 IN 27mm PVC.
25. 2#10 IN 27mm PVC.
26. 4#8 IN 27mm PVC.
27. 6#8 IN 27mm PVC.
28. 6#8, 2#10 IN 41mm PVC.
29. 2#8, 2#10 IN 27mm PVC.
30. 2#8 IN 27mm PVC; 2–27mm PVC (CAMERA).
31. 2#6 IN 27mm PVC; 2–27mm PVC (CAMERA).
32. 2#6, 2#12 IN 27mm PVC; 2–27mm PVC (CAMERA).
33. 2#6, 4#8, 2#10 IN 41mm PVC; 2–27mm PVC (CAMERA).
34. 2#6, 10#8, 4#10, 2#12 IN 53mm PVC; 2–27mm PVC (CAMERA).
35. THREE (3) FLAG LIGHT POLE BASES PLACED AT 120° SPACINGS 1524mm FROM CENTER OF FLAG POLE. LIGHTS WIRED TO CIRCUIT C–1.
36. TO BE MOUNTED UNDER SOFFIT.
37. TO BE MOUNTED UNDER CANOPY.
38. TO BE MOUNTED AT CANOPY LEVEL.
39. 2–27mm CONDUITS FOR CAMERAS.
40. 2–103mm CONDUITS FOR POWER; 1–103mm CONDUIT FOR COMMUNICATIONS.

NOTES

1. NEW PADMOUNT TRANSFORMER BY NB POWER, CONCRETE TRANSFORMER PAD BY DIV. 16 TO NB POWER STANDARD CONSTRUCTION PRACTICES ED9U–20, ED9U–25, ED9U–60 & ED9U–65.
2. NEW 12.47KV O/H POWERLINE, O/H TELEPHONE SERVICE (BY OTHERS).
3. 4–103mm CONCRETE ENCASED DB2 DUCTS FOR NEW PRIMARY SERVICE TO PADMOUNT TRANSFORMER (1–SPARE).
4. 2–103mm CONCRETE ENCASED DB2 DUCTS FOR NEW ALIANT SERVICE (1–SPARE).
5. 4 #500 MCM IN 103mm DB2 DUCT; 1–SPARE 103mm DB2 DUCT; CONCRETE ENCASED.
6. SURVEILLANCE CAMERA ON POLE BY OWNER. TO BE WIRED BACK TO MAIN PORT ELECTRICAL ROOM/ COMMUNICATIONS ROOM C/W 2–27mm PVC (1–POWER, 1–COMMUNICATIONS) WIRING BY OTHERS.
7. PROVIDE 27mm PVC CONDUIT FOR A LIGHTED SIGN, CONTROLLED FROM THE MAIN PORT, ROOM 141.
8. TWO 53mm PVC CONDUITS. 1–POWER, 1–COMMUNICATION; 1–27mm PVC FOR EXTERIOR BUILDING LIGHTING; 1–53mm PVC FOR MISC. CONTROLS; 2–53mm PVC DUCT FOR FIRE ALARM; 1–53mm DUCT FOR SECURITY.
9. 1–103mm PVC DUCT (POWER FROM 'PA'); 1–103mm PVC DUCT (POWER–SPARE); 1–53mm PVC DUCT (FIRE ALARM); 1–53mm PVC DUCT (MISCELLANEOUS COMMUNICATIONS –CONTROLS, ETC.); 2–103mm PVC DUCTS (TEL).
10. 2–103mm PVC DUCTS FOR COMMUNICATIONS; 1–53mm PVC DUCT FOR SECURITY.
11. 1–103mm PVC DUCT (POWER FROM GENERATOR); 1–53mm PVC DUCT (BLDG. POWER); 1–27mm PVC DUCT (EXTERIOR BUILDING LIGHTING); 2–53mm PVC DUCT (FIRE ALARM); 1–53mm PVC DUCT (COMMUNICATIONS); 1–53mm PVC DUCT (MISC. COMMUNICATIONS, CONTROLS, ETC.); 1–53mm PVC DUCT (TEL); 1–53mm PVC DUCT (SECURITY).
12. 6#12, 2#10, 2#8 IN 41mm PVC; 1–27mm PVC (SIGN).
13. 2#12, 2#10, 2#8 IN 27mm PVC; 1–27mm PVC (SIGN).
14. 2#10, 2#12 IN 27mm PVC.
15. 2#10 IN 27mm PVC; 1–27mm PVC (SIGN).
16. 2#6 IN 27mm PVC.
17. 2#6, 2#8 IN 27mm PVC; 2–103mm CONDUIT FOR CAMERAS.
18. 2#6, 4#8 IN 41mm PVC; 2–103mm CONDUIT FOR CAMERAS.
19. 2#6, 4#8, 2#10 IN 41mm PVC; 2–103mm CONDUIT FOR CAMERAS.
20. 2#6, 8#8, 4#10, 2#12 in 53mm PVC; 2–103mm CONDUIT FOR CAMERAS.
21. 2#6, 8#8, 4#10, 4#12 IN 53mm PVC; 2–103mm CONDUIT FOR CAMERAS.

Public Works and Government Services Canada / Travaux Publics et Services gouvernementaux Canada

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PWGSC Project No. 316727
Solicitation No. E0227 – 05S156 / A

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4	AS–BUILT DRAWINGS	03/24 2009
3	CAMERA MODIFICATIONS – FINAL	09/26 2008
2	NEXUS DETAILS	06/09 2008
1	ISSUED FOR CONSTRUCTION FOR PWGSC	05/03 2008
0	ISSUED FOR CONSTRUCTION	03/13 2008

revisions / date

project / projet

NEW BORDER CROSSING FACILITY

ST. STEPHEN, NB

drawing / dessin

SITE PLAN
LEGEND & DETAILS

designed / conçu	TRACEY McDADE, P.ENG.	
date	2009.03.24	
drawn / dessiné	ANDREW BRADLEY	
date	2009.03.24	
approved / approuvé		
date		
tender / Soumission		

PWGSC Project Manager / Administrateur de projets TPSGC

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E-DRM/CDD-E