



APEGM
Certificate of Authorization
MCW/AGE Consulting Professional Engineers
No. 589 Expiry: April 30, 2017

DO NOT SCALE DRAWINGS

Revision/Revisión	Description/Description	Date/Date
0	ISSUED FOR CONSTRUCTION	2016/11/02

Client/client

PUBLIC WORKS AND GOVERNMENT SERVICES AGENCY

Project title/Titre du projet
EMERSON, MANITOBA HIGHWAY 75, UNITED STATES BORDER
EXPANSION AND REDEVELOPMENT OF THE EMERSON PORT OF ENTRY

Approved by/Approve par
KEI

Designed by/Concept par
GD

Drawn by/Dessine par
GA

PWSSC Project Manager/Administrateur de Projets TPSSC
JAMES HUTCHINGS

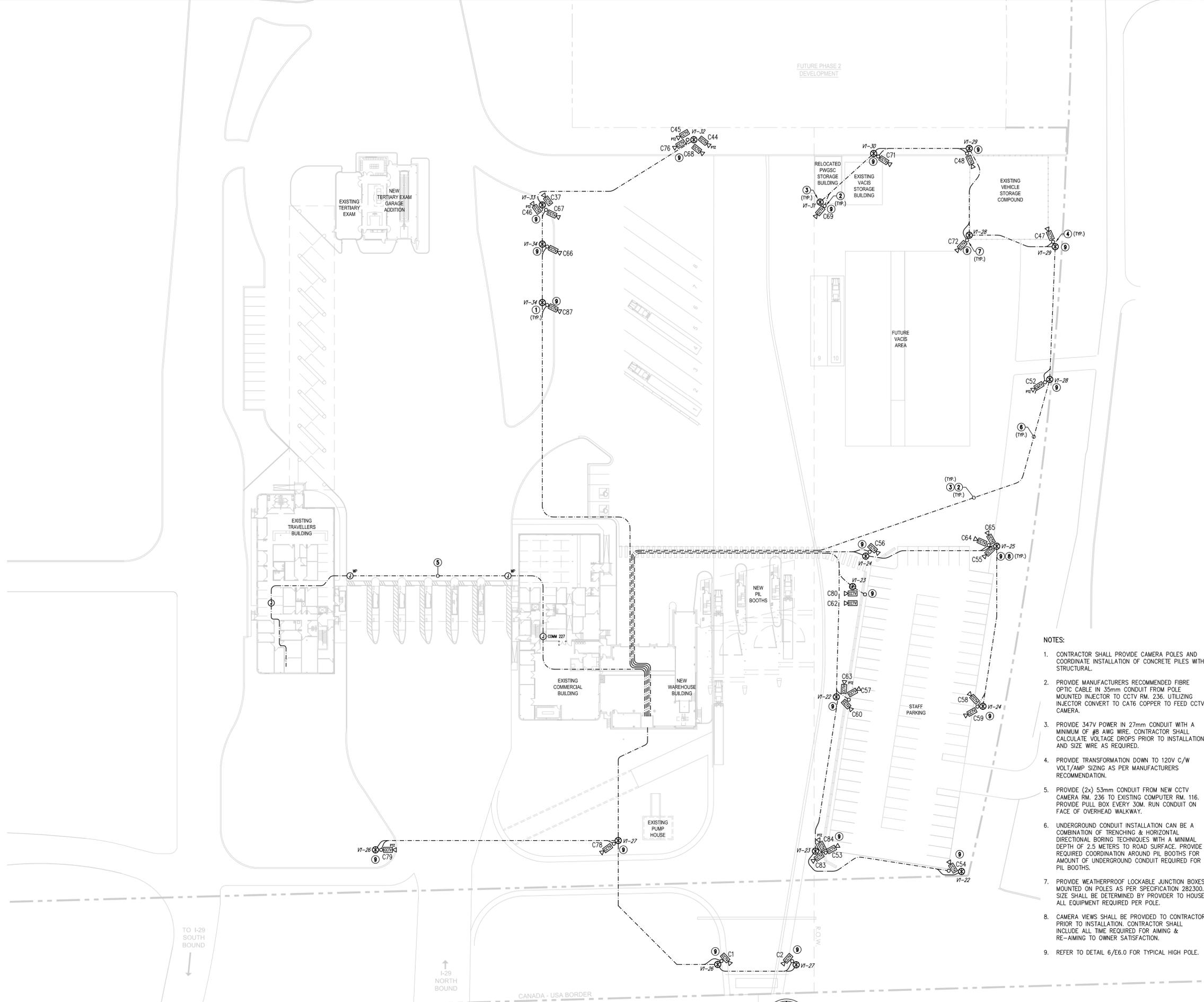
PWSSC Architectural and Engineering Resources Manager/Ressources Architectural et de Directeur d'ingénierie, TPSSC

Client/client

Drawing title/Titre du dessin

SITE PLAN - CCTV LAYOUT

Project No./No. du projet R.068431.001	Sheet/Feuille EC2.0 of 26	Revision no./La Révision no. 0
--	--	--



- NOTES:
- CONTRACTOR SHALL PROVIDE CAMERA POLES AND COORDINATE INSTALLATION OF CONCRETE PILES WITH STRUCTURAL.
 - PROVIDE MANUFACTURERS RECOMMENDED FIBRE OPTIC CABLE IN 35mm CONDUIT FROM POLE MOUNTED INJECTOR TO CCTV RM. 236. UTILIZING INJECTOR CONVERT TO CAT6 COPPER TO FEED CCTV CAMERA.
 - PROVIDE 347V POWER IN 27mm CONDUIT WITH A MINIMUM OF #8 AWG WIRE. CONTRACTOR SHALL CALCULATE VOLTAGE DROPS PRIOR TO INSTALLATION AND SIZE WIRE AS REQUIRED.
 - PROVIDE TRANSFORMATION DOWN TO 120V C/W VOLT/AMP SIZING AS PER MANUFACTURERS RECOMMENDATION.
 - PROVIDE (2x) 53mm CONDUIT FROM NEW CCTV CAMERA RM. 236 TO EXISTING COMPUTER RM. 116. PROVIDE PULL BOX EVERY 30M. RUN CONDUIT ON FACE OF OVERHEAD WALKWAY.
 - UNDERGROUND CONDUIT INSTALLATION CAN BE A COMBINATION OF TRENCHING & HORIZONTAL DIRECTIONAL BORING TECHNIQUES WITH A MINIMAL DEPTH OF 2.5 METERS TO ROAD SURFACE. PROVIDE REQUIRED COORDINATION AROUND PIL BOOTHS FOR AMOUNT OF UNDERGROUND CONDUIT REQUIRED FOR PIL BOOTHS.
 - PROVIDE WEATHERPROOF LOCKABLE JUNCTION BOXES MOUNTED ON POLES AS PER SPECIFICATION 282300. SIZE SHALL BE DETERMINED BY PROVIDER TO HOUSE ALL EQUIPMENT REQUIRED PER POLE.
 - CAMERA VIEWS SHALL BE PROVIDED TO CONTRACTOR PRIOR TO INSTALLATION. CONTRACTOR SHALL INCLUDE ALL TIME REQUIRED FOR AIMING & RE-AIMING TO OWNER SATISFACTION.
 - REFER TO DETAIL 6/E6.0 FOR TYPICAL HIGH POLE.

1 SITE PLAN - CCTV LAYOUT
EC2.0 SCALE: 1:500