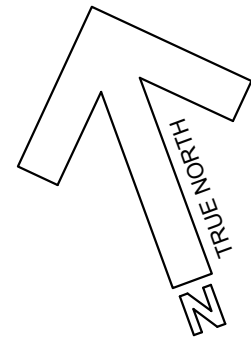


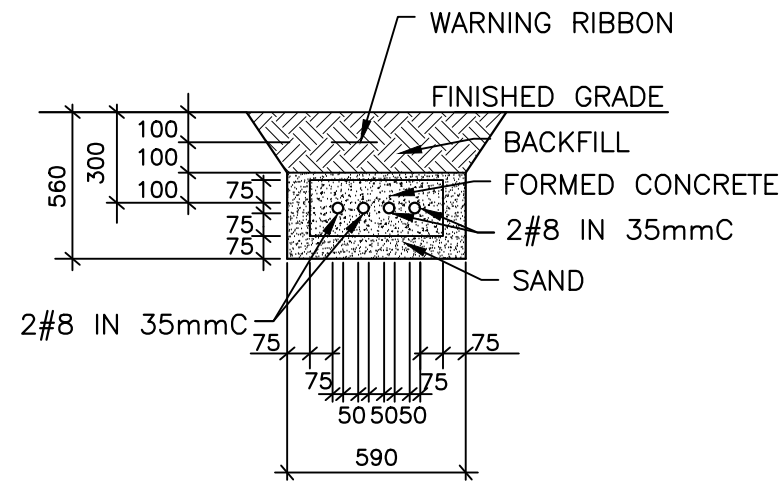
GENERAL SITE PLAN NOTES:

- CONTRACTOR TO LOCATE ALL EXISTING AND NEW UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE EXISTING OR NEW UNDERGROUND SERVICES. SITE PLAN IS SHOWN FOR COORDINATION PURPOSES ONLY AND NOT ALL EXISTING UNDERGROUND SERVICES ARE SHOWN.
- SOLAR ARRAYS TO FACE TRUE SOUTH REFERENCED WITH MAGNETIC DECLINATION AND HAVE A MANUALLY ADJUSTABLE TILT ANGLE SET TO BEST SUIT SOLAR PRODUCTION AT TIME ON INSTALL.
- COORDINATE WITH GENERAL CONTRACTOR ALL SITE WORK REQUIRED FOR INSTALLATION OF A COMPLETE SOLAR ARRAY SYSTEM AS DESCRIBED. SITE WORK INCLUDES BUT IS NOT LIMITED TO, GRUBBING AND SITE CLEARING AROUND ARRAYS, SECURITY FENCING, REMOVAL OF ADJACENT TREES OR CONDITIONS WHICH MAY OBSTRUCT OR IMPACT OPTIMAL SOLAR COLLECTION.
- COORDINATE INSTALLATION OF NEW AND EXISTING UNDERGROUND ELECTRICAL WITH EXACT LOCATION OF NEW FENCE POSTS AND SOLAR ARRAY FOOTINGS PRIOR TO INSTALLATION.

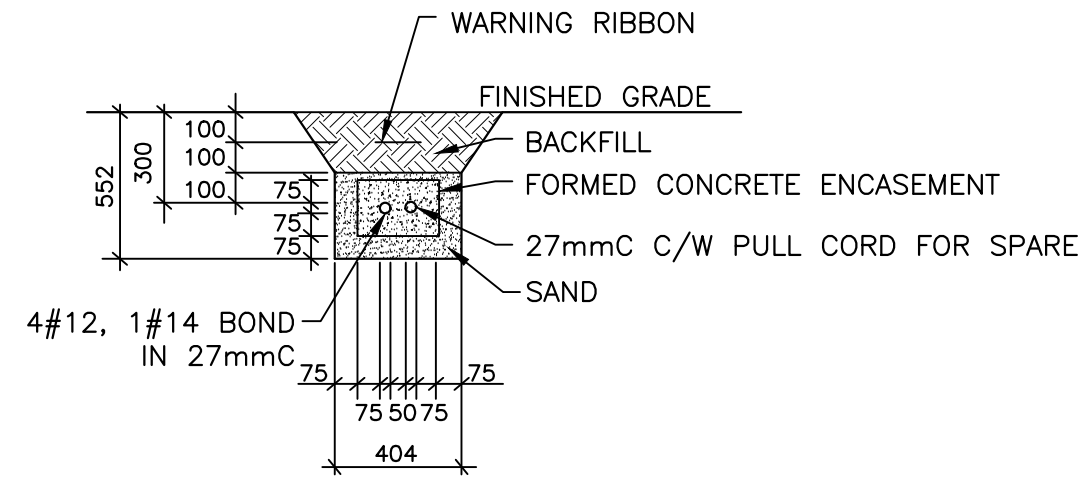


SITE PLAN
SCALE : 1:250

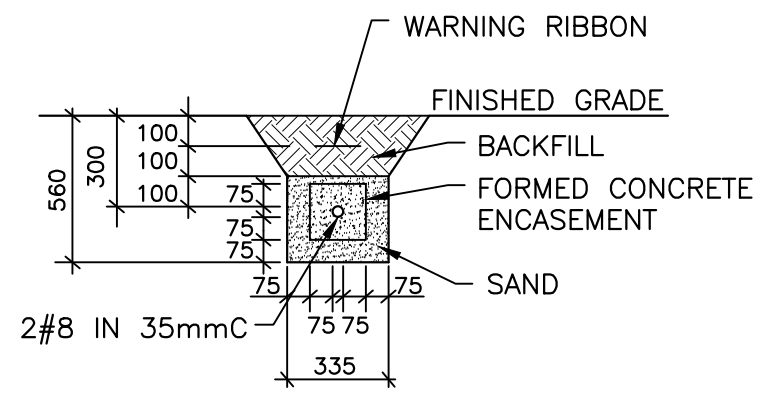
1
E1



SOLAR ARRAY CONDUIT



BRANCH CIRCUIT CONDUIT



SOLAR ARRAY CONDUIT

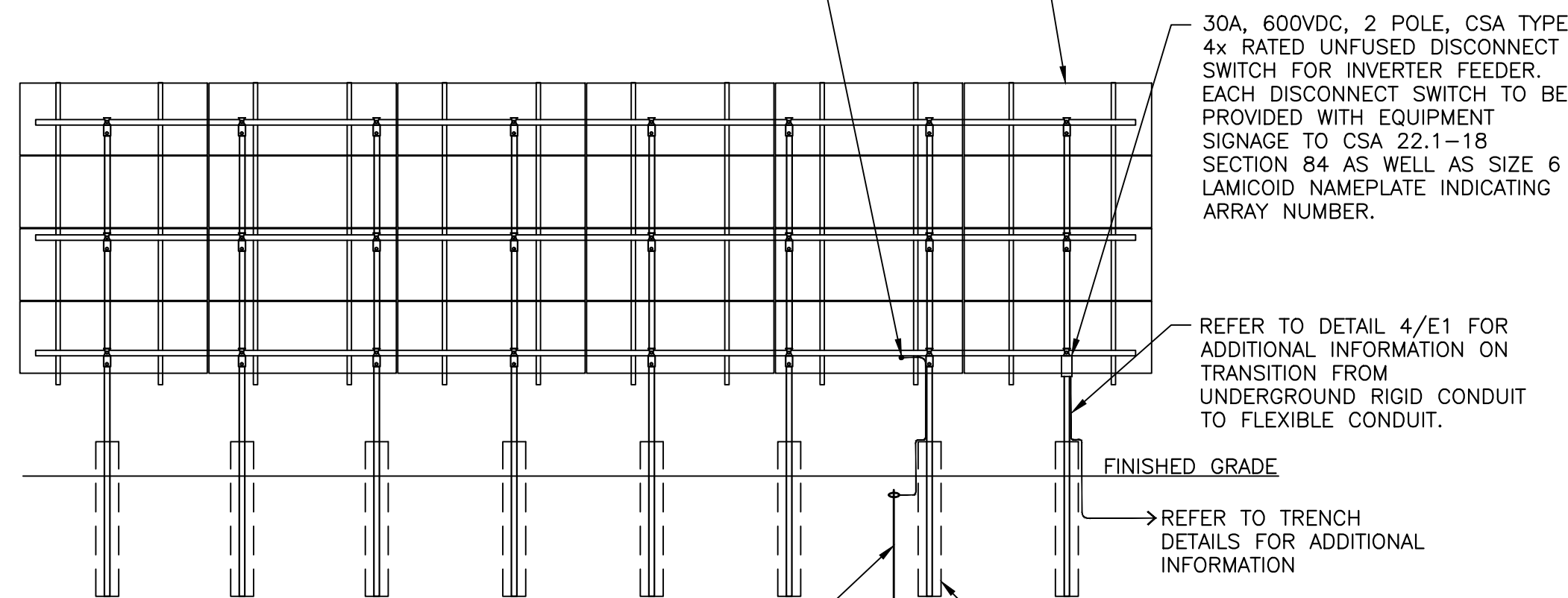
DETAIL: OPEN TRENCHING

SCALE : 1:25

2
E1

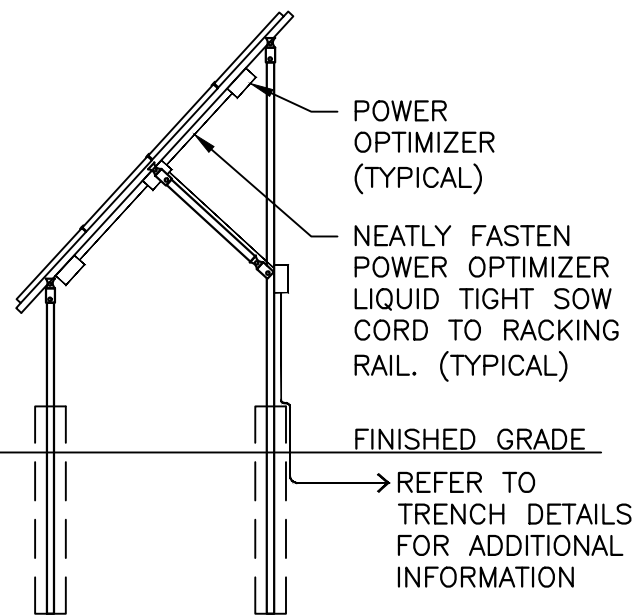
SOLAR PANEL C/W POWER OPTIMIZER MOUNTED TO BACKSIDE SUPPORT RAIL.
(24 POWER OPTIMIZERS PER ARRAY)

ALL EXPOSED METALLIC OR CONDUCTIVE SUPPORTS, STRUCTURES AND POWER OPTIMIZER MOUNTING RAILS ARE TO BE BONDED TOGETHER AND TO THE SOLAR ARRAY GROUND THROUGH LOCAL GROUNDING ELECTRODE IN ACCORDANCE WITH CSA 22.1 ARTICLE 64-064



SOLAR ARRAY FRONT VIEW

NOTE:
TYPICAL RACKING AND SOLAR ARRAY IS SHOWN FOR GENERAL INFORMATION. EXACT SOLAR ARRAY INSTALLATION, CONFIGURATION AND WIRING TO BE IN ACCORDANCE WITH MANUFACTURER REQUIREMENTS FOR A FULL LISTED AND OPERATIONAL SYSTEM. SUPPORT STRUCTURE AND RACKING TO BE FULLY ENGINEERED FOR THE SPECIFIC ARRAY AND SITE CONDITIONS.

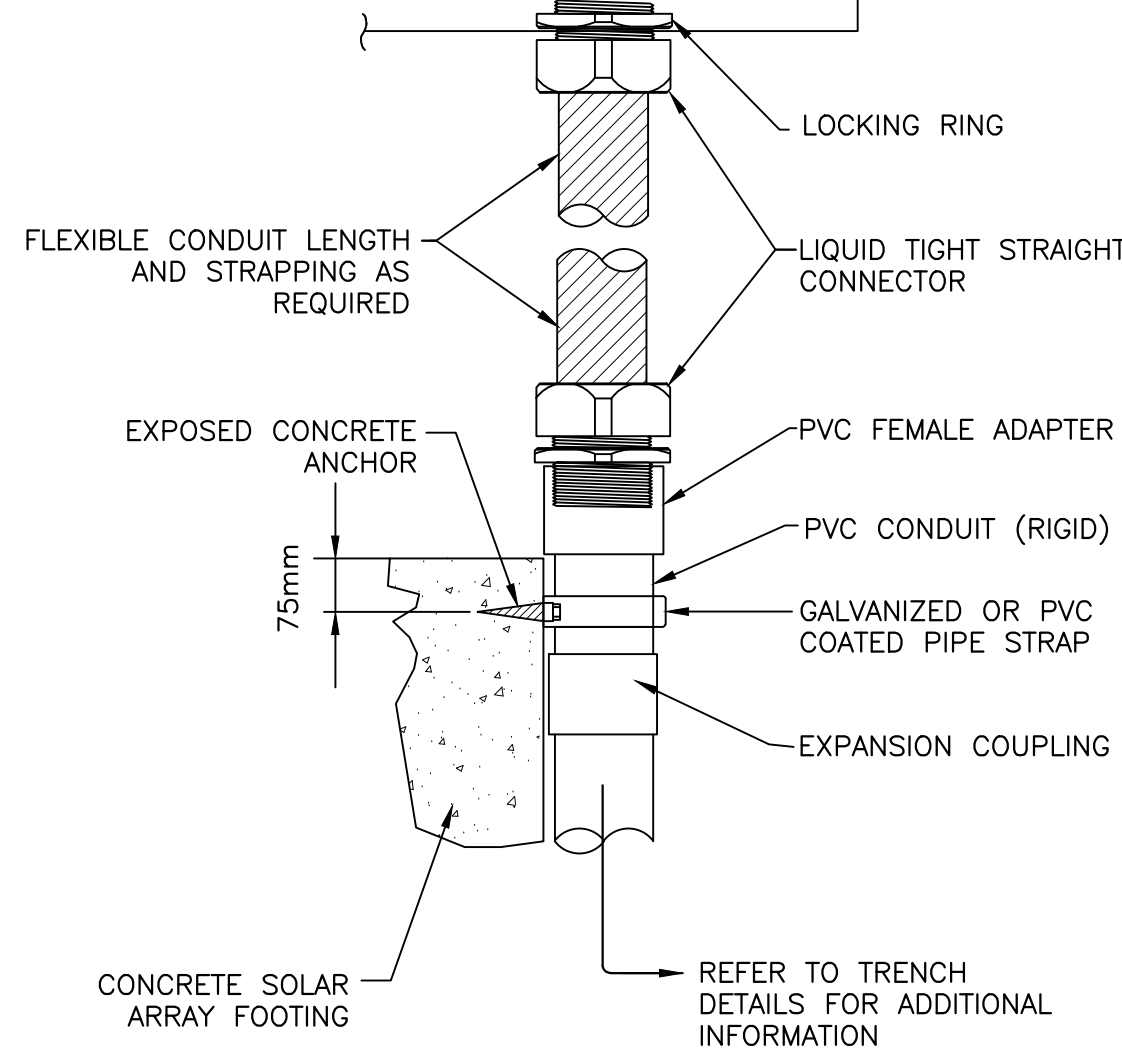


SOLAR ARRAY SIDE VIEW

DETAIL: SOLAR ARRAY

SCALE: NTS

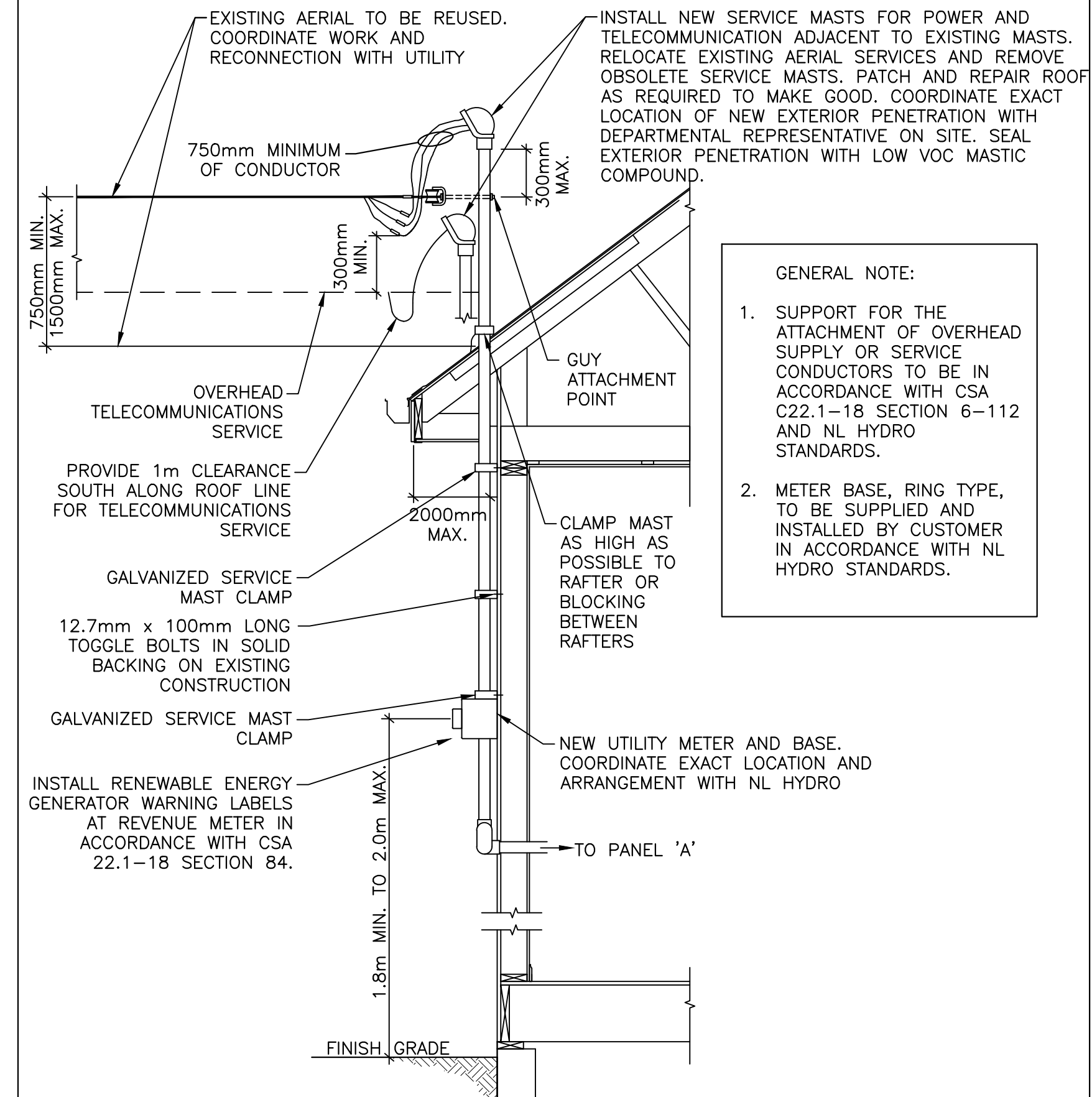
3
E1



DETAIL: EXTENSION OF PVC WITH FLEXIBLE CONDUIT

SCALE: NTS

4
E1



DETAIL: SERVICE MASTS

SCALE: NTS

5
E1

GENERAL LEGEND	
---	INDICATES FIRE RATED WALL. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION
---	LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
---	HEAVY LINEWEIGHT INDICATES NEW WORK
---	AERIAL SERVICE LINES
---	UNDERGROUND WIRING
---	SURFACE MOUNTED WIRING
---	CONCEALED WIRING, SLASHES INDICATE NUMBER OF CONDUCTORS
○	WIRING UP
●	WIRING DOWN
---	CONDUIT STUB
A-10a	INDICATES CIRCUIT #10 IN PANEL 'A'
a-	INDICATES LUMINAIRE SWITCHING FOR LIGHTING CIRCUITS
GENERAL SUB SCRIPTS	
4x	INDICATES CSA 4x ENCLOSURE
X	INDICATES EQUIPMENT TO BE REMOVED

ELECTRICAL LEGEND	
○	SINGLE RECEPTACLE
⊕	DUPLEX RECEPTACLE
⊕	QUAD RECEPTACLE
⊕	SPLIT DUPLEX RECEPTACLE
⊕	ELECTRICAL PANEL, SURFACE MOUNTED A-INDICATES PANEL DESIGNATION
⊕	ELECTRICAL PANEL, RECESSED MOUNTED A-INDICATES PANEL DESIGNATION
⊕	GROUNDING ELECTRODE
⊕	SINGLE PHASE MOTOR
⊕	UNFUSED DISCONNECT SWITCH XX - INDICATES SWITCH RATING
⊕	DIRECT CONNECTION
⊕	MANUAL MOTOR SWITCH
⊕	COMBINATION MAGNETIC MOTOR STARTER
⊕	EXISTING THERMOSTAT
⊕	NEW UTILITY METER
⊕	SINGLE POLE SWITCH
⊕	PIR OCCUPANCY SENSOR WALL SWITCH, 120V
⊕	EXISTING COMMUNICATIONS OUTLET C/W TWO TELEPHONE RJ12 TELEPHONE JACKS C/W ONE CAT. 5e CABLE BACK TO THE BIX VOICE/PATCH PANEL IN THE MECHANICAL AND ELECTRICAL ROOM AND SPLIT CABLE BETWEEN THE TWO JACKS.
⊕	EXISTING COMMUNICATIONS BACKBOARD
⊕	EXISTING EXTERIOR FACADE MOUNTED LUMINAIRE
⊕	EXISTING EXTERIOR FACADE MOUNTED LUMINAIRE
⊕	EXISTING LINEAR LUMINAIRE, CEILING MOUNTED
⊕	EXISTING LUMINAIRE, CEILING MOUNTED
⊕	SINGLE POLE SWITCH 3-INDICATES THREE WAY
⊕	EXISTING FIRE ALARM SPOT TYPE SMOKE ALARM

0	Issued for Tender	06/18 2020
revisions		date

project
DFO ST. LEWIS BUILDING UPGRADES
project

drawing
ELECTRICAL LEGEND, SITE PLAN AND DETAILS
design

designed	E.S.C., P.ENG	conçu
date	JUNE 2020	
drawn	M.E.M., C.E.T.	dessiné
date	JUNE 2020	
approved	E.S.C., P.ENG	approuvé
date	JUNE 2020	
Tender	D.S., PMP	Soumission
project number	PWGC Project Manager	Administrateur de projets TPSC
	R.108233.001	no. du projet
drawing no.	E1 OF 3	no. du dessin