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10 February 2022

ESD MEMO – CHANGE OF SOLAR PANEL LOCATION

PROJECT NAME: New Primary School in Edmondson Park
PROJECT NUMBER: 210104
ATTENTION: Daniel Vidovic
FROM: Gary Tang

Re: ESD Memo – Change of Solar Panel Location.

This ESD Memo addresses the ESD impact due to change of solar panel location on the proposed New Primary School in Edmondson Park.

The project team proposed to amend the location of the roof solar panel from Hall Building to Building A (near Faulkner Way) with additional 20kW of PV panels to the system.

JHA confirms this modification **will not** bring negative impacts on the environmental performance of the solar panel.

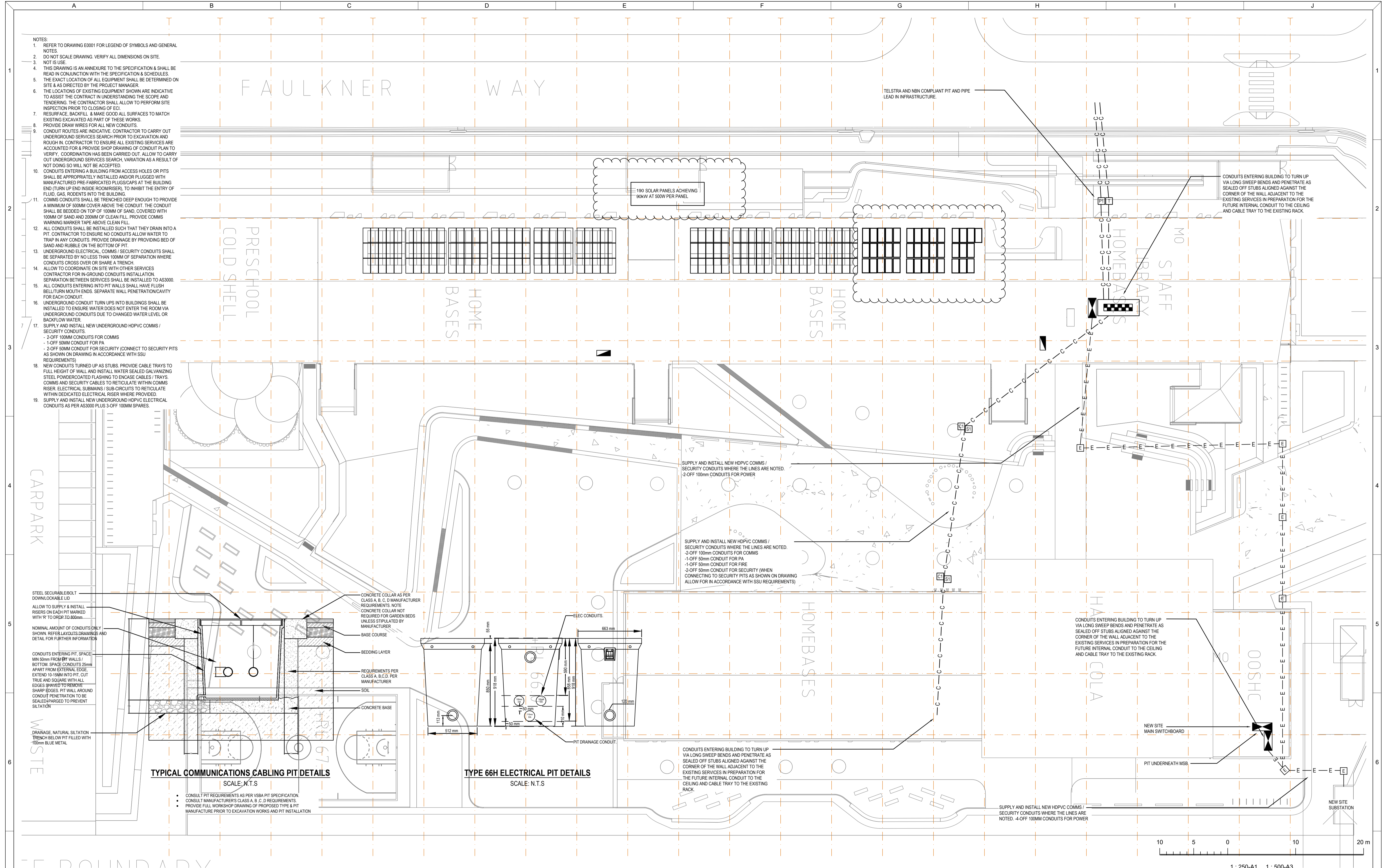
The drawing showing the new solar panel location is attached at the end of this memo.

Yours sincerely,

Gary Tang

Sustainability Engineer

- NOTES
- REFER TO DRAWING E0001 FOR LEGEND OF SYMBOLS AND GENERAL NOTES.
 - DO NOT SCALE DRAWING. VERIFY ALL DIMENSIONS ON SITE.
 - NOT TO SCALE.
 - THIS DRAWING IS AN ANNEXURE TO THE SPECIFICATION & SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION & SCHEDULES.
 - THE EXACT LOCATION OF ALL EQUIPMENT SHALL BE DETERMINED ON SITE & AS DIRECTED BY THE PROJECT MANAGER.
 - THE LOCATIONS OF EXISTING EQUIPMENT SHOWN ARE INDICATIVE TO ASSIST THE CONTRACTOR IN UNDERSTANDING THE SCOPE AND TENDERING. THE CONTRACTOR SHALL ALLOW TO PERFORM SITE INSPECTION PRIOR TO CLOSING OF E.O.
 - RESURFACE, BACKFILL & MAKE GOOD ALL SURFACES TO MATCH EXISTING EXCAVATED AS PART OF THESE WORKS.
 - PROVIDE DRAW WIRES FOR ALL NEW CONDUITS.
 - CONDUIT ROUTES ARE INDICATIVE. CONTRACTOR TO CARRY OUT UNDERGROUND SERVICES SEARCH PRIOR TO EXCAVATION AND ROUGH IN. CONTRACTOR TO ENSURE ALL EXISTING SERVICES ARE ACCOUNTED FOR & PROVIDE SHOP DRAWING OF CONDUIT PLAN TO VERIFY. COORDINATION HAS BEEN CARRIED OUT. ALLOW TO CARRY OUT UNDERGROUND SERVICES SEARCH. VARIATION AS A RESULT OF NOT DOING SO WILL NOT BE ACCEPTED.
 - CONDUITS ENTERING A BUILDING FROM ACCESS HOLES OR PITS SHALL BE APPROPRIATELY INSTALLED AND/OR PLUGGED WITH MANUFACTURED PRE-FABRICATED PLUSSEARS AT THE BUILDING END (TURN UP END INSIDE ROOMRISER), TO INHIBIT THE ENTRY OF FLUID, GAS, RODENTS INTO THE BUILDING.
 - COMMS CONDUITS SHALL BE TRENCHED DEEP ENOUGH TO PROVIDE A MINIMUM OF 500MM COVER ABOVE THE CONDUIT. THE CONDUIT SHALL BE BEDDED ON TOP OF 100MM OF SAND, COVERED WITH 100MM OF SAND AND 200MM OF CLEAN FILL. PROVIDE COMMS WARNING MARKER TAPE ABOVE CLEAN FILL.
 - ALL CONDUITS SHALL BE INSTALLED SUCH THAT THEY DRAIN INTO A PIT. CONTRACTOR TO ENSURE NO CONDUITS ALLOW WATER TO TRAP IN ANY CONDUITS. PROVIDE DRAINAGE BY PROVIDING BED OF SAND AND RUBBLE ON THE BOTTOM OF PIT.
 - UNDERGROUND ELECTRICAL, COMMS / SECURITY CONDUITS SHALL BE SEPARATED BY NO LESS THAN 100MM OF SEPARATION WHERE CONDUITS CROSS OVER OR SHARE A TRENCH.
 - ALLOW TO COORDINATE ON SITE OTHER SERVICES. CONTRACTOR FOR IN-GROUND CONDUITS INSTALLATION. SEPARATION BETWEEN SERVICES SHALL BE INSTALLED TO AS3000.
 - ALL CONDUITS ENTERING INTO PIT WALLS SHALL HAVE FLUSH BELLTUM MOUTH ENDS. SEPARATE WALL PENETRATION/CAVITY FOR EACH CONDUIT.
 - UNDERGROUND CONDUIT TURN UPS INTO BUILDINGS SHALL BE INSTALLED TO ENSURE WATER DOES NOT ENTER THE ROOM VIA UNDERGROUND CONDUITS DUE TO CHANGED WATER LEVEL OR BACKFLOW WATER.
 - SUPPLY AND INSTALL NEW UNDERGROUND HDPEVC COMMS / SECURITY CONDUITS.
 - 2-OFF 100mm CONDUITS FOR COMMS
 - 1-OFF 50mm CONDUIT FOR PA
 - 2-OFF 50mm CONDUIT FOR SECURITY (CONNECT TO SECURITY PITS AS SHOWN ON DRAWING IN ACCORDANCE WITH SSU REQUIREMENTS)
 - NEW CONDUITS TURNED UP AS STUBS. PROVIDE CABLE TRAYS TO FULL HEIGHT OF WALL AND INSTALL WATER SEALED GALVANIZING STEEL POWDERCOATED FLASHING TO ENCASE CABLES / TRAYS. COMMS AND SECURITY CABLES TO RETICULATE WITHIN COMMS RISER ELECTRICAL SUBMANS / SUB-CIRCUITS TO RETICULATE WITHIN DEDICATED ELECTRICAL RISER WHERE PROVIDED.
 - SUPPLY AND INSTALL NEW UNDERGROUND HDPEVC ELECTRICAL CONDUITS AS PER AS3000 PLUS 3-OFF 100mm SPARES.



TYPICAL COMMUNICATIONS CABLING PIT DETAILS
SCALE: N.T.S

- CONSULT PIT REQUIREMENTS AS PER VBSA PIT SPECIFICATION
- CONSULT MANUFACTURER'S CLASS A, B, C, D REQUIREMENTS
- PROVIDE FULL WORKSHOP DRAWING OF PROPOSED TYPE & PIT MANUFACTURE PRIOR TO EXCAVATION WORKS AND PIT INSTALLATION

TYPE 66H ELECTRICAL PIT DETAILS
SCALE: N.T.S

REVISIONS / AMENDMENTS				REVISIONS / AMENDMENTS			
Rev	Date	Description	Verified	Rev	Date	Description	Verified
P1	18.08.21	PRELIMINARY ISSUE	J.S.				
P2	15.09.21	PRELIMINARY ISSUE	J.S.				
A	22.10.21	TENDER ISSUE	J.S.				
B	07.02.22	TENDER ISSUE	J.S.				

All dimensions to be verified on site prior to commencement of on-site work and/or off-site prefabrication. Figured dimension to be taken in preference to scaled dimensions. This drawing is copyright and remains the property of JHA Consulting Engineers. Reproduction in whole or part of these drawings without written consent constitutes an infringement of copyright.

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Tanner Kibble Denton

PROJECT
EDMONDSON PARK PRIMARY SCHOOL
BUCHAN AVE
EDMONDSON PARK

TITLE
ELECTRICAL SERVICES PROPOSED SITE PLAN

1:250-A1 1:500-A3

REVISIONS / AMENDMENTS		
Rev	Date	Description

TENDER ISSUE
NOT TO BE USED FOR CONSTRUCTION

DRAWN	D.P.	SCALE @ A1
CHECKED	M.M.	N.T.S.
APPROVED	J.S.	JOB No.
CREATED	AUG 2021	210104
DRAWING No.		REV
EL-W-TD-0010		B