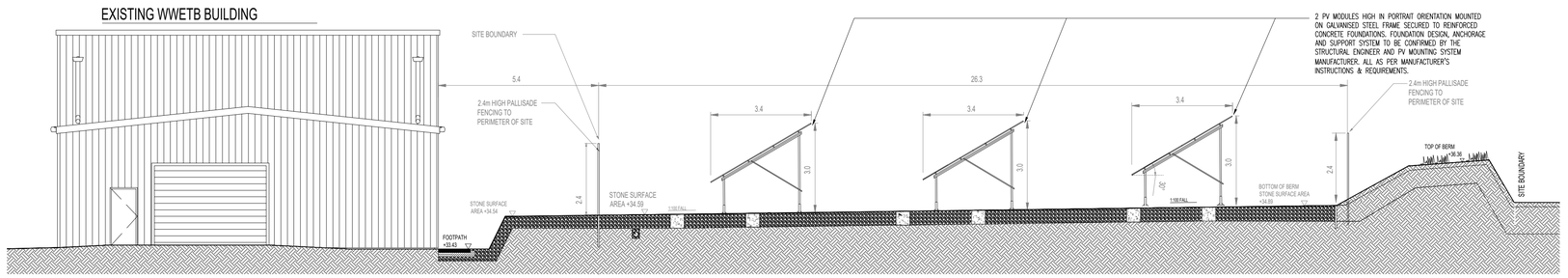
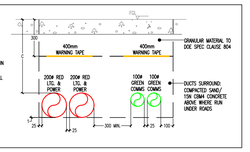
A1



2 SECTION 1
1:100 @A1

NOTES:
1. MAINTAIN MINIMUM 300mm RADIAL CLEARANCE BETWEEN PVC DUCTS AND ALL OTHER UNDERGROUND SERVICES & UTILITIES UNLESS AGREED OTHERWISE WITH TELECOMS PROVIDER.
2. ALL DUCTS SHALL BE COMPLETE WITH 12mm POLYPROPYLENE DRAW ROPES.
3. ENCASE DUCTS IN 15N C8M4 CONCRETE WHERE THEY RUN UNDER ROADS & CARPARKS.
4. ALL UNDERGROUND PVC DUCTS AND PLASTIC PIPES SHALL BE COLOUR CODED IN ACCORDANCE WITH I.S. 370:2016.

MINIMUM DUCT COVER		
	FOOTPATH	ROADS
(C)	600mm	750mm



TYPICAL SITE SERVICES DUCTS TRENCH DETAIL (NTS)

N

PROPOSED NEW 228 kWp SOLAR PV PANEL ARRAY MOUNTED ON GROUND AREA (456 No. PANELS), SECURED TO GALVANISED STEEL MOUNTING FRAME FIXED TO REINFORCED CONCRETE FOUNDATIONS, TO SUPPORT 2 MODULES HIGH IN PORTRAIT ORIENTATION. ALL AS PER MANUFACTURER'S INSTRUCTIONS & REQUIREMENTS. ALLOW FOR SAFE ACCESS TO PV PANELS FOR MAINTENANCE.

DC CABLING FROM PV ARRAY RUN ON GROUND LOW LEVEL IN SUITABLY SIZED GALVANISED STEEL CABLE TRUNKING MOUNTED ON NON-PENETRATIVE PRE-FABRICATED SUPPORT SYSTEM AT MAXIMUM 1.2m CENTRES - BIGFOOT FIX-IT FOOT OR EQUIVALENT

PROPOSED NEW PVC DUCTS IN TRENCH: -2No. 160# RED PVC DUCT

PROPOSED NEW PVC DUCTS IN TRENCH: -2No. 160# RED PVC DUCT

PV INVERTER LABELLED "ISOLATE AC & DC BEFORE REMOVING COVER" LOCATED ADJACENT TO THE PV PANEL IN IP65 ENCLOSURE

FIREFIGHTER SAFETY SWITCH FOR PV STRINGS (PROJOY ELECTRIC PEFS SERIES OR EQUIVALENT)

PROPOSED NEW PVC DUCTS IN TRENCH: -2No. 160# RED PVC DUCT

PROPOSED NEW PVC DUCT IN TRENCH: -1No. 160# RED PVC DUCT

PROPOSED NEW PVC DUCT IN TRENCH: -1No. 160# RED PVC DUCT

PROPOSED ROUTE OF DUCTING FROM SWITCH ROOM TO PV CONTROL STATION 1x160mm RED, 1x100mm DIA RED

CONTRACTOR TO ALLOW FOR GPS TO EXISTING CONCRETE PAVING AREA IN IDENTIFYING EXISTING SERVICES

ALTERNATIVE ROUTE FOR THE SUB MAINS ON CABLE LADDER FIXED TO THE STRUCTURE TO THIS POINT AND EXTEND UNDERGROUND TO PV KIOSK

POSSIBLE EXTENSION TO EXISTING SWITCHGEAR

EXISTING SPACE FOR NEW MCCB; CONTRACTOR TO VERIFY MCCB CAN BE ACCOMMODATED

MAIN SWITCHGEAR

EXISTING WWETB BUILDING

AC-P6

26350

4000

93600

3400

1 SITE LAYOUT
1:200 @A1

GENERAL NOTES

1) Do not scale services equipment from this drawing.
2) All dimensions should be checked on site.
3) Any drawing errors or divergences should be brought to the attention of Geaney Engineering Consultants at the address shown below.
4) Drawing to be read in conjunction with all other drawings and documentation.
4. PROVIDE SAFE AND UNOBSTRUCTED ACCESS ROUTES TO THE PV ARRAY, INVERTERS, ISOLATORS AND ASSOCIATED EQUIPMENT FOR INSPECTION, OPERATION AND MAINTENANCE.
5. PV MODULE ROW SPACING AND ARRAY ORIENTATION SHALL BE AS INDICATED ON THE DRAWING AND COORDINATED WITH THE FINAL PV DESIGN TO MINIMISE SHADING AND MAINTAIN REQUIRED MAINTENANCE ACCESS.
6. PROVIDE SUITABLE UNDERGROUND SERVICE DUCTS FROM THE PV ARRAY/INVERTER LOCATIONS TO THE BUILDING/MCB AS INDICATED. DUCT ROUTES, SIZES, DEPTHS, SEPARATION AND CABLE REQUIREMENTS SHALL BE COORDINATED WITH THE EXISTING SERVICES.
7. ALL UNDERGROUND PV CABLES SHALL BE INSTALLED IN SUITABLE HEAVY-DUTY DUCTING WITH APPROPRIATE MECHANICAL PROTECTION, WARNING TAPE/IDENTIFICATION AND MARKER POSTS WHERE REQUIRED. PROVIDE DRAW ROPE IN ALL CABLE DUCTS. SEE DETAIL.
8. CONTRACTOR SHALL VERIFY ALL SITE LEVELS, EXISTING UNDERGROUND SERVICES AND GROUND CONDITIONS PRIOR TO EXCAVATION AND COMMENCEMENT OF FOUNDATION OR DUCT INSTALLATION WORKS.
9. COORDINATE ALL PV FOUNDATIONS, CABLE DUCTS, ACCESS ROUTES AND ASSOCIATED SITE SERVICES WITH CIVIL, STRUCTURAL AND ELECTRICAL DRAWINGS PRIOR TO COMMENCEMENT OF WORKS.
10. PV ARRAY METALLIC SUPPORT STRUCTURE AND MODULE FRAMES SHALL BE BONDED AND EARTHED IN ACCORDANCE WITH THE ELECTRICAL DESIGN AND I.S. 10101.
11. ALL EXTERNAL PV EQUIPMENT, CABLING, CONTAINMENT AND SUPPORT SYSTEMS SHALL BE SUITABLE FOR THE ENVIRONMENTAL CONDITIONS AT THE SITE, INCLUDING UV EXPOSURE, MOISTURE, WIND AND CORROSION.
12. ALL UNDERGROUND WORKS MUST BE CARRIED OUT IN ACCORDANCE WITH THE HSA CODE OF PRACTICE 'AVOIDING DANGER FROM UNDERGROUND SERVICES'.
13. ALL WORKS SHALL BE CARRIED OUT IN ACCORDANCE WITH THE RELEVANT IRISH STANDARDS, STATUTORY REQUIREMENTS, MANUFACTURER'S REQUIREMENTS AND APPROVED PROJECT DESIGN.

LEGEND:

PROPOSED NEW RED PVC DUCT IN TRENCH FOR SITE LIGHTING & POWER

AC-P6 — PROPOSED NEW 600(L) x 600(W) x 900(D) PREFORMED TWIN-WALLED HIGH STRENGTH STRUCTURAL CHAMBER MANUFACTURED FROM POLYPROPYLENE WITH STACKABLE 150mm HIGH SECTIONS C/W COVER TO EN-124 (CLASS B125/D400) FOR LTG. & POWER. COVER SHALL BE DUCTILE IRON (ANTI SKID AND TREATED WITH PROTECTIVE BLACK PAINT) C/W DUCTILE IRON FRAME AND LOCKING ARRANGEMENT. CHAMBER COVER TO BE CLEARLY MARKED WITH EUROPEAN TRIANGULAR DANGER SYMBOL AND CLEARLY LABELLED 'DANGER ELECTRIC CABLES BELOW' - MANHOLE COVERS IRELAND EASYSTACK OR EQUIVALENT

Revision	Description	Date	Drawn	Checked
A	Tender Issue	23-Sep-2026	FR	CG

GEANEY ENGINEERING CONSULTANTS
STUDIO 22, WATERFORD BUSINESS PARK, CORK ROAD, WATERFORD, IRELAND.
TEL: 051-879371
FAX: 051-853188
EMAIL: info@geaneyengineering.ie

project title:
Proposed PV project at Waterford & Wexford Education Training Board, Cork Rd, Skibbereen, Waterford

drawing title:
Proposed PV Panels Site Layout

scale: 1:100 /1:200 @A1

architect: --

project number: 0796

drawing number: EL401